



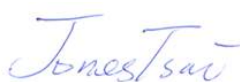
FCC SAR TEST REPORT

FCC ID : A4RG013C
Equipment : Smartphone
Model Name : G013C
Applicant : Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043, USA
Standard : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2013

The product was received on Jun. 06, 2018 and testing was started from Jun. 06, 2018 and completed on Jun. 28, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Jones Tsai / Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA820502-02	01	Initial issue of report	Jul. 04, 2018
FA820502-02	02	Update section15	Jul. 12, 2018
FA820502-02	03	Update GSM1900 power table	Jul. 18, 2018

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Google LLC, Smartphone, G013C, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)	
		1g SAR (W/kg)			10g SAR (W/kg)	
Licensed	GSM850	1.24	0.58	0.58		1.59
	GSM1900	1.29	0.75	1.18		
	WCDMA II	1.32	1.11	1.29	2.62	
	WCDMA IV	1.31	1.12	1.31	0.90	
	WCDMA V	0.90	0.36	0.36		
	CDMA BC0	1.34	0.56	0.56		
	CDMA BC1	1.34	1.19	1.35	3.48	
	CDMA BC10	1.30	0.46	0.49		
	LTE Band 7	1.28	0.98	0.98		
	LTE Band 12/17	0.73	0.36	0.36		
	LTE Band 13	0.94	0.44	0.47		
	LTE Band 2/25	1.35	1.09	1.34	2.43	
	LTE Band 5/26	0.86	0.38	0.38		
	LTE Band 30	1.29	0.56	0.56		
	LTE Band 3/41	1.29	0.58	0.58		
	LTE Band 4/66	1.30	1.19	1.34	0.89	
	LTE Band 71	0.70	0.32	0.34		
DTS	2.4GHz WLAN	1.30	0.38	0.38		1.59
NII	5GHz WLAN	1.34	0.41	0.36	1.66	1.59
DSS	Bluetooth	0.21	0.10	0.10		1.58
Date of Testing:		2018/6/6 ~ 2018/6/28				

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

Reviewed by: Eric Huang
Report Producer: Wan Liu



2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	Smartphone
Model Name	G013C
FCC ID	A4RG013C
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2472 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA CDMA2000: 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz : 802.11b/g/n/ac HT20/VHT20 WLAN 5GHz : 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth: BR/EDR/LE NFC: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark:	
1. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, this technique is employed in the GSM, WCDMA, CDMA and LTE modes but not supports LTE B7/B30/B38/B41. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching. The detail descriptions of the antenna tuner are included in the operational description and supplemental data for additional information on section15	
2. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.	



3.2 Maximum Tune-up Limit

General Note:

1. For each cellular band, the device has 2 antennas (LAT antenna located in the bottom, UAT antenna located in the top edge), the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time.
2. The device has several power modes which are determined by the exposure conditions for head/hotspot/body-worn and also the simultaneous transmission conditions, the detailed implementation of the detection of the use cases and the power table control is illustrated in the operational description exhibit

<WWAN Power table (WLAN off)>

RF Exposure Conditions										
Power Condition		Default Maximum Tune up Power (dBm)	Head Power Level (dBm)		Body Worn Power Level (dBm)		Hotspot Power Level (dBm)		Product Specific Power Level (dBm)	
			UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna
Band										
GSM850	GSM 1 Tx slot	33.0	32.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	GPRS 1 Tx slot	33.0	32.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	GPRS 2 Tx slots	30.0	29.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	GPRS 3 Tx slots	28.0	27.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
	GPRS 4 Tx slots	28.0	26.5	28.0	28.0	28.0	28.0	28.0	28.0	28.0
	EDGE 1 Tx slot	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	EDGE 2 Tx slots	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
	EDGE 3 Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	EDGE 4 Tx slots	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
GSM1900	GSM 1 Tx slot	30.0	28.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	GPRS 1 Tx slot	30.0	28.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	GPRS 2 Tx slots	27.5	25.0	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	GPRS 3 Tx slots	27.0	23.5	27.0	27.0	27.0	27.0	27.0	27.0	27.0
	GPRS 4 Tx slots	25.5	22.0	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	EDGE 1 Tx slot	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
	EDGE 2 Tx slots	25.5	25.0	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	EDGE 3 Tx slots	23.5	23.0	23.5	23.5	23.5	23.5	23.5	23.5	23.5
EDGE 4 Tx slots	22.5	22.0	22.5	22.5	22.5	22.5	22.5	22.5	22.5	
WCDMA II		24.0	19.5	24.0	24.0	24.0	23.0	23.5	24.0	24.0
WCDMA IV		24.0	22.5	24.0	24.0	24.0	24.0	23.5	24.0	24.0
WCDMA V		24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA BC0		25.0	24.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0
CDMA BC1		25.0	20.0	25.0	25.0	25.0	24.5	24.0	25.0	25.0
CDMA BC10		25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
LTE 2		24.0	19.5	24.0	24.0	24.0	23.0	23.5	24.0	24.0
LTE 4		24.0	21.0	24.0	24.0	24.0	24.0	23.0	24.0	24.0
LTE 5		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 7		24.0	20.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE 12		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 13		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 17		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 25		24.0	19.5	24.0	24.0	24.0	23.0	23.5	24.0	24.0
LTE 26		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 30		24.0	23.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE 38		24.0	22.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE 41		25.2	22.0	25.2	25.2	25.2	25.2	25.2	25.2	25.2
LTE41 (HPUE)		26.5	23.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
LTE 66		24.0	21.0	24.0	24.0	24.0	24.0	23.0	24.0	24.0
LTE 71		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5



<WWAN Power table (WLAN on)>

RF Exposure Conditions										
Power Condition		Default Maximum Tune up Power (dBm)	Head Power Level (dBm)		Body Worn Power Level (dBm)		Hotspot Power Level (dBm)		Product Specific Power Level (dBm)	
			UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna	UAT Antenna	LAT Antenna
Band										
GSM850	GSM 1 Tx slot	33.0	32.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	GPRS 1 Tx slot	33.0	32.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
	GPRS 2 Tx slots	30.0	29.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	GPRS 3 Tx slots	28.0	27.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
	GPRS 4 Tx slots	28.0	26.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
	EDGE 1 Tx slot	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	EDGE 2 Tx slots	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
	EDGE 3 Tx slots	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	EDGE 4 Tx slots	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
GSM1900	GSM 1 Tx slot	30.0	27.5	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	GPRS 1 Tx slot	30.0	27.5	30.0	30.0	30.0	30.0	30.0	30.0	30.0
	GPRS 2 Tx slots	27.5	24.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
	GPRS 3 Tx slots	27.0	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
	GPRS 4 Tx slots	25.5	21.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	EDGE 1 Tx slot	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
	EDGE 2 Tx slots	25.5	24.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	EDGE 3 Tx slots	23.5	22.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
	EDGE 4 Tx slots	22.5	21.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
WCDMA II		24.0	19.0	24.0	24.0	24.0	22.5	23.0	24.0	24.0
WCDMA IV		24.0	22.0	24.0	24.0	24.0	24.0	23.0	24.0	24.0
WCDMA V		24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
CDMA BC0		25.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
CDMA BC1		25.0	19.5	25.0	24.0	25.0	24.0	23.5	25.0	25.0
CDMA BC10		25.0	24.5	25.0	25.0	25.0	25.0	25.0	24.0	25.0
LTE 2		24.0	19.0	24.0	24.0	24.0	22.0	23.0	24.0	24.0
LTE 4		24.0	20.5	24.0	24.0	24.0	24.0	22.5	24.0	24.0
LTE 5		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 7		24.0	19.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE 12		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 13		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 17		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 25		24.0	19.0	24.0	24.0	24.0	22.0	23.0	24.0	24.0
LTE 26		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
LTE 30		24.0	22.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE 38		24.0	21.5	24.0	24.0	24.0	24.0	24.0	24.0	24.0
LTE 41		25.2	21.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
LTE41 (HPUE)		26.5	23.0	26.5	26.5	26.5	26.5	26.5	26.5	26.5
LTE 66		24.0	20.5	24.0	24.0	24.0	24.0	22.5	24.0	24.0
LTE 71		24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

<WLAN Tune up Power table>
WLAN SISO Power table

Frequency Band	Modulation	WWAN Off				WWAN On			
		Head		Body Worn / Hotspot / Product specific		Head		Body Worn / Hotspot / Product specific	
		Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4
WLAN 2.4GHz	802.11b	14.5	18.5	20.0	20.0	8.5	13.5	20.0	20.0
	802.11g	14.5	18.5	18.5	18.5	8.5	13.5	18.5	18.5
	802.11n HT20	14.5	18.5	18.5	18.5	8.5	13.5	18.5	18.5
	802.11ac VHT20	14.5	18.5	18.5	18.5	8.5	13.5	18.5	18.5

Frequency Band	Modulation	WWAN Off				WWAN On			
		Head		Body Worn / Hotspot / Product specific		Head		Body Worn / Hotspot / Product specific	
		Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5	Ant 4
WLAN5GHz UNII 1	802.11a	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11n HT20	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11n HT40	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11ac VHT20	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11ac VHT40	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11ac VHT80	12.5	12.5	12.5	12.5	10	8.5	12.5	12.5
WLAN5GHz UNII 2A	802.11a	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11n HT20	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11n HT40	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11ac VHT20	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11ac VHT40	15.0	16.0	18.5	18.5	10	8.5	18.5	18.5
	802.11ac VHT80	13.5	13.5	13.5	13.5	10	8.5	13.5	13.5
WLAN5GHz UNII 2C	802.11a	15.0	16.5	18.5	18.5	10	11.0	18.5	18.5
	802.11n HT20	15.0	16.5	18.0	18.0	10	11.0	18.0	18.0
	802.11n HT40	15.0	16.5	18.5	18.5	10	11.0	18.5	18.5
	802.11ac VHT20	15.0	16.5	18.0	18.0	10	11.0	18.0	18.0
	802.11ac VHT40	15.0	16.5	18.5	18.5	10	11.0	18.5	18.5
	802.11ac VHT80	15.0	16.5	18.5	18.5	10	11.0	18.5	18.5
WLAN5GHz UNII 3	802.11a	15.0	17.0	18.0	18.0	10	11.5	18.0	18.0
	802.11n HT20	15.0	17.0	18.0	18.0	10	11.5	18.0	18.0
	802.11n HT40	15.0	17.0	18.0	18.0	10	11.5	18.0	18.0
	802.11ac VHT20	15.0	17.0	17.5	17.5	10	11.5	17.5	17.5
	802.11ac VHT40	15.0	17.0	18.0	18.0	10	11.5	18.0	18.0
	802.11ac VHT80	15.0	17.0	18.0	18.0	10	11.5	18.0	18.0

<WLAN MIMO Power table>

Frequency Band	Modulation	WWAN off						WWAN On					
		Head			Body Worn / Hotspot / Product specific			Head			Body Worn / Hotspot / Product specific		
		Ant4	Ant5	Ant 4+5	Ant4	Ant5	Ant 4+5	Ant4	Ant5	Ant 4+5	Ant4	Ant5	Ant 4+5
WLAN 2.4GHz	802.11b	18.5	18.5	21.5	20.0	20.0	23.0	14.0	14.0	17.0	20.0	20.0	23.0
	802.11g	18.5	18.5	21.5	18.5	18.5	21.5	14.0	14.0	17.0	18.5	18.5	21.5
	802.11n HT20	18.5	18.5	21.5	18.5	18.5	21.5	14.0	14.0	17.0	18.5	18.5	21.5
	802.11ac VHT20	18.5	18.5	21.5	18.5	18.5	21.5	14.0	14.0	17.0	18.5	18.5	21.5

Frequency Band	Modulation	WWAN Off						WWAN On					
		Head			Body Worn / Hotspot / Product specific			Head			Body Worn / Hotspot / Product specific		
		Ant6	Ant5	Ant 6+5	Ant6	Ant5	Ant 6+5	Ant6	Ant5	Ant 6+5	Ant6	Ant5	Ant 6+5
WLAN5GHz UNII 1	802.11a	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11n HT20	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11n HT40	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11ac VHT20	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11ac VHT40	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11ac VHT80	12.5	12.5	15.5	12.5	12.5	15.5	9.5	10.0	13.0	12.5	12.5	15.5
WLAN5GHz UNII 2A	802.11a	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11n HT20	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11n HT40	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11ac VHT20	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11ac VHT40	14.0	14.5	17.5	18.5	18.5	21.5	9.5	10.0	13.0	18.5	18.5	21.5
	802.11ac VHT80	13.5	13.5	16.5	13.5	13.5	16.5	9.5	10.0	13.0	13.5	13.5	16.5
WLAN5GHz UNII 2C	802.11a	13.0	15.0	17.5	18.5	18.5	21.5	9.0	10.5	13.0	18.5	18.5	21.5
	802.11n HT20	13.0	15.0	17.5	18.0	18.0	21.0	9.0	10.5	13.0	18.0	18.0	21.0
	802.11n HT40	13.0	15.0	17.5	18.5	18.5	21.5	9.0	10.5	13.0	18.5	18.5	21.5
	802.11ac VHT20	13.0	15.0	17.5	18.0	18.0	21.0	9.0	10.5	13.0	18.0	18.0	21.0
	802.11ac VHT40	13.0	15.0	17.5	18.5	18.5	21.5	9.0	10.5	13.0	18.5	18.5	21.5
	802.11ac VHT80	13.0	15.0	17.5	18.5	18.5	21.5	9.0	10.5	13.0	18.5	18.5	21.5
WLAN5GHz UNII 3	802.11a	15.5	16.0	18.5	18.0	18.0	21.0	9.0	11.5	13.5	18.0	18.0	21.0
	802.11n HT20	15.5	16.0	18.5	18.0	18.0	21.0	9.0	11.5	13.5	18.0	18.0	21.0
	802.11n HT40	14.5	16.0	18.5	18.0	18.0	21.0	9.0	11.5	13.5	18.0	18.0	21.0
	802.11ac VHT20	15.5	16.0	18.5	17.5	17.5	20.5	9.0	11.5	13.5	17.5	17.5	20.5
	802.11ac VHT40	14.5	16.0	18.5	18.0	18.0	21.0	9.0	11.5	13.5	18.0	18.0	21.0
	802.11ac VHT80	14.5	16.0	18.5	18.0	18.0	21.0	9.0	11.5	13.5	18.0	18.0	21.0

<Bluetooth Power table>
<WWAN off, WWAN on, WIFI off, WIFI on, WWAN on and WIFI on>

Frequency Band	Mode		Tune up Power (dBm)	
			Ant 5	
Bluetooth	BR/EDR	1Mbps	11.5	
		2Mbps	11.5	
		3Mbps	11.5	
	LE	1Mbps	11.5	
		2Mbps	11.5	
			11.5	



3.3 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05												
FCC ID			A4RG013C									
Equipment Name			Smartphone									
Operating Frequency Range of each LTE transmission band			LTE Band 2: 1850.7 MHz ~ 1909.3 MHz									
			LTE Band 4: 1710.7 MHz ~ 1754.3 MHz									
			LTE Band 5: 824.7 MHz ~ 848.3 MHz									
			LTE Band 7: 2502.5 MHz ~ 2567.5 MHz									
			LTE Band 12: 699.7 MHz ~ 715.3 MHz									
			LTE Band 13: 779.5 MHz ~ 784.5 MHz									
			LTE Band 17: 706.5 MHz ~ 713.5 MHz									
			LTE Band 25: 1850.7 MHz ~ 1914.3 MHz									
			LTE Band 26: 814.7 MHz ~ 848.3 MHz									
			LTE Band 30: 2307.5 MHz ~ 2312.5 MHz									
			LTE Band 38: 2572.5 MHz ~ 2617.5 MHz									
			LTE Band 41: 2498.5 MHz ~ 2687.5 MHz									
			LTE Band 66: 1710.7 MHz ~ 1779.3 MHz									
			LTE Band 71: 665.5 MHz ~ 695.5 MHz									
Channel Bandwidth			LTE Band 02:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 04:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 05:1.4MHz, 3MHz, 5MHz, 10MHz									
			LTE Band 07: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz									
			LTE Band 13: 5MHz, 10MHz									
			LTE Band 17: 5MHz, 10MHz									
			LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz									
			LTE Band 30: 5MHz, 10MHz									
			LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz									
uplink modulations used			QPSK / 16QAM / 64QAM									
LTE Voice / Data requirements			Voice and Data									
LTE MPR permanently built-in by design			Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3									
			Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)		
				1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz			
			QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1		
			16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1		
			16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2		
			64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2		
			64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3		
			256 QAM	≥ 1						≤ 5		
LTE A-MPR			In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)									
Spectrum plots for RB configuration			A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.									
Power reduction applied to satisfy SAR compliance			The device has several different power modes for head / hotspot / body-worn conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios, the power selection is defined in the section3.2.									
LTE Carrier Aggregation Combinations			Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 11									
LTE Carrier Aggregation Additional Information			This device supports maximum of 5 carriers in the downlink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.									
Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23255		784.5	
M	23230		782		23255		784.5		23280		787	
H	23255		784.5		23280		787		23305		789.5	
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23805		711.5	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23780		709	
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26790	824
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5	26940	838

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 30												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #			Freq.(MHz)				
L	27685		2307.5		27710			2310				
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133247	675.5	133272	678	133297	680.5	133322	683				
H	133447	695.5	133422	693	133397	690.5	133372	688				



4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

5. Specific Absorption Rate (SAR)

5.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

5.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

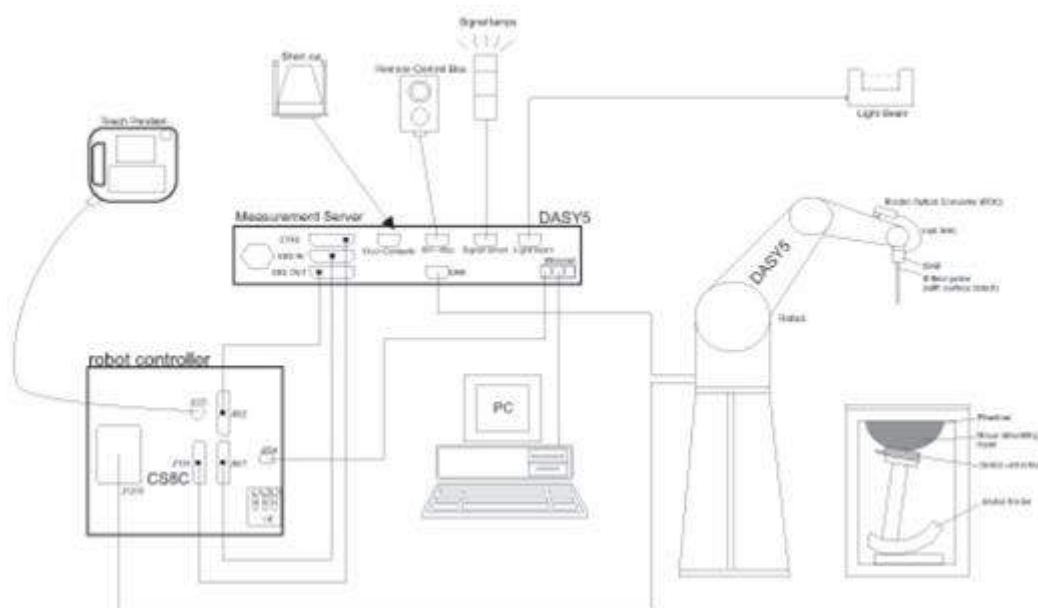
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

6. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

6.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

6.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Fig 5.1 Photo of DAE

6.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

6.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

7. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

7.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

7.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

7.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

7.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

7.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1107	Feb. 27, 2018	Feb. 26, 2019
SPEAG	835MHz System Validation Kit	D835V2	4d167	Feb. 27, 2018	Feb. 26, 2019
SPEAG	1750MHz System Validation Kit	D1750V2	1068	Nov. 15, 2017	Nov. 14, 2018
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Sep. 28, 2017	Sep. 27, 2018
SPEAG	2300MHz System Validation Kit	D2300V2	1006	Jan. 17, 2018	Jan. 16, 2019
SPEAG	2450MHz System Validation Kit	D2450V2	736	Sep. 18, 2017	Sep. 17, 2018
SPEAG	2600MHz System Validation Kit	D2600V2	1008	Sep. 18, 2017	Sep. 17, 2018
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Sep. 26, 2017	Sep. 25, 2018
SPEAG	Data Acquisition Electronics	DAE4	1424	Jan. 18, 2018	Jan. 17, 2019
SPEAG	Data Acquisition Electronics	DAE3	495	May. 24, 2018	May. 23, 2019
SPEAG	Data Acquisition Electronics	DAE4	1399	Nov. 16, 2017	Nov. 15, 2018
SPEAG	Data Acquisition Electronics	DAE4	778	May. 25, 2018	May. 24, 2019
SPEAG	Data Acquisition Electronics	DAE3	577	Sep. 25, 2017	Sep. 24, 2018
SPEAG	Dosimetric E-Field Probe	EX3DV4	3976	Jan. 23, 2018	Jan. 22, 2019
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Mar. 31, 2018	May. 30, 2019
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Sep. 29, 2017	Sep. 28, 2018
SPEAG	Dosimetric E-Field Probe	ES3DV3	3169	May. 28, 2018	May. 27, 2019
SPEAG	Dosimetric E-Field Probe	EX3DV4	7306	Jul. 24, 2017	Jul. 23, 2018
RCPTWN	Thermometer	HTC-1	TM685-1	Mar. 16, 2018	Mar. 15, 2019
RCPTWN	Thermometer	HTC-1	TM281-1	Mar. 16, 2018	Mar. 15, 2019
RCPTWN	Thermometer	HTC-1	TM560-1	Mar. 16, 2018	Mar. 15, 2019
Gencom	Thermometer	TE1	TM225-1	Mar. 16, 2018	Mar. 15, 2019
WonDer	Thermometer	WD-5016	TM642-1	Mar. 16, 2018	Mar. 15, 2019
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Apr. 17, 2018	Apr. 16, 2019
Agilent	Wireless Communication Test Set	E5515C	MY50266977	May. 21, 2018	May. 20, 2019
R&S	BT Base Station	CBT	100815	Feb. 05, 2018	Feb. 04, 2019
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Dec. 07, 2017	Dec. 06, 2018
Agilent	ENA Network Analyzer	E5071C	MY46316648	Jan. 17, 2018	Jan. 16, 2019
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 26, 2017	Sep. 25, 2018
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3169	Sep. 06, 2017	Sep. 05, 2018
Anritsu	Power Meter	ML2495A	1218006	Oct. 06, 2017	Oct. 05, 2018
Anritsu	Power Sensor	MA2411B	1207363	Oct. 06, 2017	Oct. 05, 2018
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 23, 2017	Aug. 22, 2018
Mini-Circuits	Power Amplifier	ZVE-8G+	D120604	Mar. 12, 2018	Mar. 11, 2019
Mini-Circuits	Power Amplifier	ZHL-42W+	QA1344002	Mar. 12, 2018	Mar. 11, 2019
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005-3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.

9. System Verification

9.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.



Fig 10.1 Photo of Liquid Height for Head SAR



Fig 10.2 Photo of Liquid Height for Body SAR

9.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
For Body								
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	68.1	0	0	0.1	0	31.8	2.16	52.5

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	HSL	22.6	0.888	40.804	0.89	41.90	-0.22	-2.62	±5	2018/6/15
750	HSL	22.5	0.927	42.977	0.89	41.90	4.16	2.57	±5	2018/6/25
750	MSL	22.2	0.972	54.233	0.96	55.50	1.25	-2.28	±5	2018/6/19
750	MSL	22.4	0.966	54.125	0.96	55.50	0.63	-2.48	±5	2018/6/20
750	MSL	22.5	0.993	54.233	0.96	55.50	3.44	-2.28	±5	2018/6/25
835	HSL	22.4	0.877	42.566	0.90	41.50	-2.56	2.57	±5	2018/6/8
835	HSL	22.6	0.880	42.646	0.90	41.50	-2.22	2.76	±5	2018/6/15
835	HSL	22.7	0.878	42.527	0.90	41.50	-2.44	2.47	±5	2018/6/21
835	MSL	22.7	0.964	55.740	0.97	55.20	-0.62	0.98	±5	2018/6/16
835	MSL	22.6	0.954	56.840	0.97	55.20	-1.65	2.97	±5	2018/6/20
835	MSL	22.1	0.966	57.377	0.97	55.20	-0.41	3.94	±5	2018/6/22
1750	HSL	22.3	1.375	41.345	1.37	40.10	0.36	3.10	±5	2018/6/6
1750	HSL	22.5	1.405	40.768	1.37	40.10	2.55	1.67	±5	2018/6/17
1750	MSL	22.3	1.466	55.250	1.49	53.40	-1.61	3.46	±5	2018/6/18

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
1900	HSL	22.5	1.455	39.471	1.40	40.00	3.93	-1.32	±5	2018/6/6
1900	HSL	22.5	1.406	40.568	1.40	40.00	0.43	1.42	±5	2018/6/17
1900	HSL	22.9	1.414	39.816	1.40	40.00	1.00	-0.46	±5	2018/6/18
1900	HSL	22.7	1.410	39.716	1.40	40.00	0.71	-0.71	±5	2018/6/21
1900	MSL	22.7	1.563	51.645	1.52	53.30	2.83	-3.11	±5	2018/6/19
1900	MSL	22.4	1.584	52.343	1.52	53.30	4.21	-1.80	±5	2018/6/20
1900	MSL	22.4	1.561	53.488	1.52	53.30	2.70	0.35	±5	2018/6/26
1900	MSL	22.4	1.552	53.198	1.52	53.30	2.11	-0.19	±5	2018/6/27
2300	HSL	22.7	1.642	39.845	1.67	39.50	-1.68	0.87	±5	2018/6/24
2300	MSL	22.3	1.803	53.630	1.81	52.90	-0.39	1.38	±5	2018/6/26
2450	HSL	22.7	1.807	39.223	1.80	39.20	0.39	0.06	±5	2018/6/24
2450	HSL	22.4	1.794	38.664	1.80	39.20	-0.33	-1.37	±5	2018/6/28
2450	MSL	22.3	1.881	52.707	1.95	52.70	-3.54	0.01	±5	2018/6/23
2450	MSL	22.4	1.976	51.196	1.95	52.70	1.33	-2.85	±5	2018/6/28
2450	MSL	22.5	1.971	54.087	1.95	52.70	1.08	2.63	±5	2018/6/28
2600	HSL	22.4	1.963	38.173	1.96	39.00	0.15	-2.12	±5	2018/6/7
2600	HSL	22.4	2.030	38.551	1.96	39.00	3.57	-1.15	±5	2018/6/22
2600	HSL	22.4	1.978	37.865	1.96	39.00	0.92	-2.91	±5	2018/6/25
2600	HSL	22.4	1.967	38.560	1.96	39.00	0.36	-1.13	±5	2018/6/27
2600	MSL	22.5	2.191	50.637	2.16	52.50	1.44	-3.55	±5	2018/6/19
5250	HSL	22.7	4.688	36.110	4.71	35.95	-0.47	0.45	±5	2018/6/24
5250	HSL	22.7	4.698	36.050	4.71	35.95	-0.25	0.28	±5	2018/6/27
5250	MSL	22.7	5.187	46.716	5.36	48.95	-3.23	-4.56	±5	2018/6/23
5250	MSL	22.3	5.107	46.686	5.36	48.95	-4.72	-4.63	±5	2018/6/28
5600	HSL	22.7	5.032	35.608	5.07	35.50	-0.75	0.30	±5	2018/6/24
5600	HSL	22.7	5.043	35.548	5.07	35.50	-0.53	0.14	±5	2018/6/27
5600	MSL	22.7	5.619	46.180	5.77	48.50	-2.62	-4.78	±5	2018/6/23
5600	MSL	22.3	5.589	46.120	5.77	48.50	-3.14	-4.91	±5	2018/6/28
5750	HSL	22.7	5.182	35.402	5.22	35.35	-0.73	0.15	±5	2018/6/24
5750	HSL	22.7	5.193	35.342	5.22	35.35	-0.52	-0.02	±5	2018/6/27
5750	MSL	22.7	5.817	45.948	5.94	48.28	-2.07	-4.83	±5	2018/6/23
5750	MSL	22.3	5.807	45.928	5.94	48.28	-2.24	-4.87	±5	2018/6/28

9.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2018/6/15	750	HSL	250	D750V3-1107	EX3DV4 - SN7306	DAE3 Sn577	2.09	8.18	8.36	2.20
2018/6/25	750	HSL	250	D750V3-1107	ES3DV3 - SN3169	DAE3 Sn577	1.98	8.18	7.92	-3.18
2018/6/19	750	MSL	250	D750V3-1107	EX3DV4 - SN7306	DAE3 Sn577	2.29	8.52	9.16	7.51
2018/6/20	750	MSL	250	D750V3-1107	ES3DV3 - SN3169	DAE4 Sn1424	2.20	8.52	8.8	3.29
2018/6/25	750	MSL	250	D750V3-1107	ES3DV3 - SN3169	DAE3 Sn577	2.27	8.52	9.08	6.57
2018/6/8	835	HSL	250	D835V2-4d167	EX3DV4 - SN7306	DAE3 Sn577	2.39	9.26	9.56	3.24
2018/6/15	835	HSL	250	D835V2-4d167	EX3DV4 - SN7306	DAE3 Sn577	2.40	9.26	9.6	3.67
2018/6/21	835	HSL	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn1424	2.33	9.26	9.32	0.65
2018/6/16	835	MSL	250	D835V2-4d167	EX3DV4 - SN7306	DAE3 Sn577	2.37	9.62	9.48	-1.46
2018/6/20	835	MSL	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn1424	2.45	9.62	9.8	1.87
2018/6/22	835	MSL	250	D835V2-4d167	ES3DV3 - SN3169	DAE4 Sn1424	2.48	9.62	9.92	3.12
2018/6/6	1750	HSL	250	D1750V2-1068	EX3DV4 - SN7306	DAE3 Sn577	9.46	36.70	37.84	3.11
2018/6/17	1750	HSL	250	D1750V2-1068	EX3DV4 - SN3925	DAE3 Sn495	9.56	36.70	38.24	4.20
2018/6/18	1750	MSL	250	D1750V2-1068	EX3DV4 - SN3925	DAE3 Sn495	9.51	37.20	38.04	2.26
2018/6/6	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN7306	DAE3 Sn577	9.88	40.50	39.52	-2.42
2018/6/17	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN3925	DAE3 Sn495	9.81	40.50	39.24	-3.11
2018/6/18	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN3925	DAE3 Sn495	9.45	40.50	37.8	-6.67
2018/6/21	1900	HSL	250	D1900V2-5d041	EX3DV4 - SN3925	DAE3 Sn495	9.99	40.50	39.96	-1.33
2018/6/19	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN7306	DAE3 Sn577	9.86	40.70	39.44	-3.10
2018/6/20	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3925	DAE3 Sn495	10.50	40.70	42	3.19
2018/6/26	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3976	DAE4 Sn778	10.40	40.70	41.6	2.21
2018/6/27	1900	MSL	250	D1900V2-5d041	EX3DV4 - SN3976	DAE4 Sn778	10.70	40.70	42.8	5.16
2018/6/24	2300	HSL	250	D2300V2-1006	EX3DV4 - SN3925	DAE3 Sn495	11.60	48.70	46.4	-4.72
2018/6/26	2300	MSL	250	D2300V2-1006	ES3DV3 - SN3169	DAE3 Sn577	11.20	47.30	44.8	-5.29
2018/6/24	2450	HSL	250	D2450V2-736	EX3DV4 - SN3925	DAE3 Sn495	12.80	52.40	51.2	-2.29
2018/6/28	2450	HSL	250	D2450V2-736	EX3DV4 - SN3976	DAE4 Sn778	12.10	52.40	48.4	-7.63
2018/6/23	2450	MSL	250	D2450V2-736	EX3DV4 - SN3925	DAE3 Sn495	12.00	50.80	48	-5.51
2018/6/28	2450	MSL	250	D2450V2-736	EX3DV4 - SN3976	DAE4 Sn778	12.60	50.80	50.4	-0.79
2018/6/28	2450	MSL	250	D2450V2-736	EX3DV4 - SN7306	DAE3 Sn495	13.50	50.80	54	6.30

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2018/6/7	2600	HSL	250	D2600V2-1008	EX3DV4 - SN7306	DAE3 Sn577	14.90	56.80	59.6	4.93
2018/6/22	2600	HSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	14.40	56.80	57.6	1.41
2018/6/25	2600	HSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	14.00	56.80	56	-1.41
2018/6/27	2600	HSL	250	D2600V2-1008	ES3DV3 - SN3169	DAE3 Sn577	14.40	56.80	57.6	1.41
2018/6/19	2600	MSL	250	D2600V2-1008	EX3DV4 - SN3925	DAE3 Sn495	14.10	55.00	56.4	2.55
2018/6/24	5250	HSL	100	D5GHzV2-1006	EX3DV4 - SN3925	DAE3 Sn495	8.31	78.30	83.1	6.13
2018/6/27	5250	HSL	100	D5GHzV2-1006	EX3DV4 - SN3931	DAE4 Sn1399	8.45	78.30	84.5	7.92
2018/6/23	5250	MSL	100	D5GHzV2-1006	EX3DV4 - SN3925	DAE3 Sn495	8.29	77.00	82.9	7.66
2018/6/28	5250	MSL	100	D5GHzV2-1006	EX3DV4 - SN7306	DAE3 Sn495	7.77	77.00	77.7	0.91
2018/6/24	5600	HSL	100	D5GHzV2-1006	EX3DV4 - SN3925	DAE3 Sn495	8.78	85.00	87.8	3.29
2018/6/27	5600	HSL	100	D5GHzV2-1006	EX3DV4 - SN3931	DAE4 Sn1399	9.07	85.00	90.7	6.71
2018/6/23	5600	MSL	100	D5GHzV2-1006	EX3DV4 - SN3925	DAE3 Sn495	7.97	80.10	79.7	-0.50
2018/6/28	5600	MSL	100	D5GHzV2-1006	EX3DV4 - SN7306	DAE3 Sn495	7.36	80.10	73.6	-8.11
2018/6/24	5750	HSL	100	D5GHzV2-1006	EX3DV4 - SN3925	DAE3 Sn495	7.76	78.50	77.6	-1.15
2018/6/27	5750	HSL	100	D5GHzV2-1006	EX3DV4 - SN3931	DAE4 Sn1399	7.87	78.50	78.7	0.25
2018/6/23	5750	MSL	100	D5GHzV2-1006	EX3DV4 - SN3925	DAE3 Sn495	8.22	75.10	82.2	9.45
2018/6/28	5750	MSL	100	D5GHzV2-1006	EX3DV4 - SN7306	DAE3 Sn495	7.20	75.10	72	-4.13

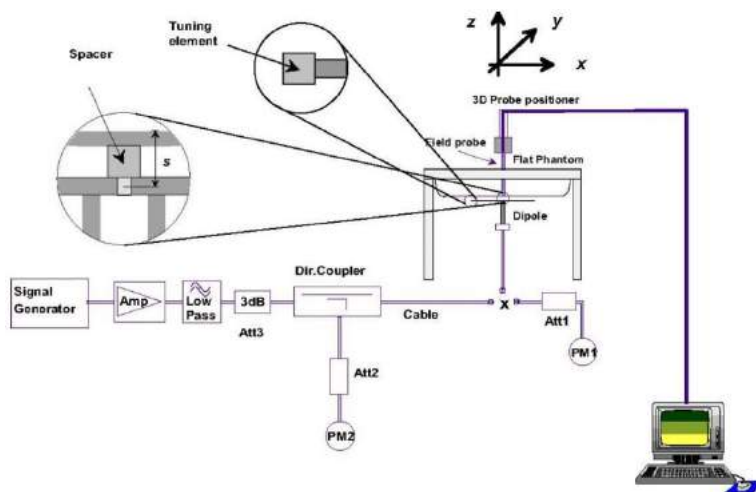

Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

10. RF Exposure Positions

10.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

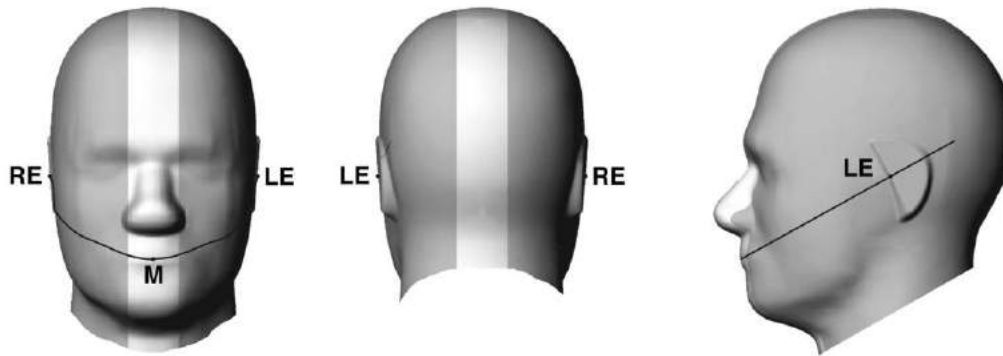


Fig 9.1.1 Front, back, and side views of SAM twin phantom

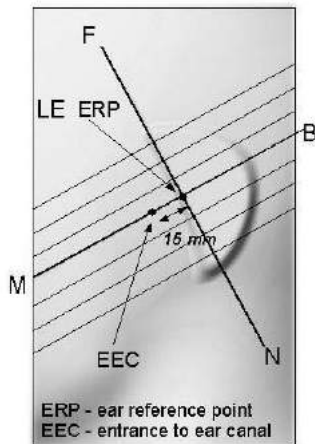


Fig 9.1.2 Close-up side view of phantom showing the ear region.

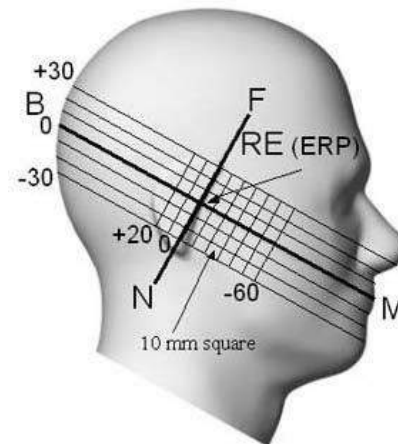


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

10.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

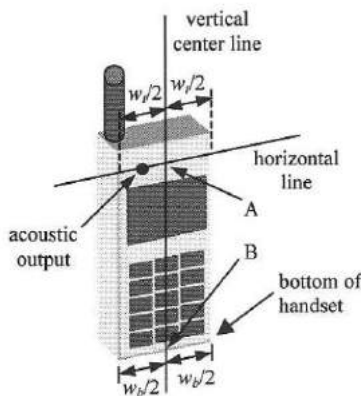


Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

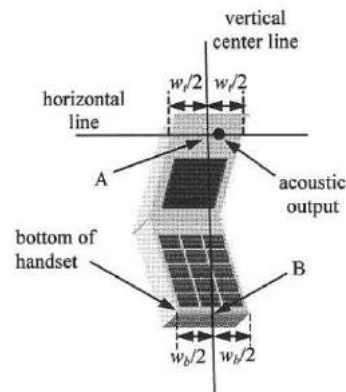


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

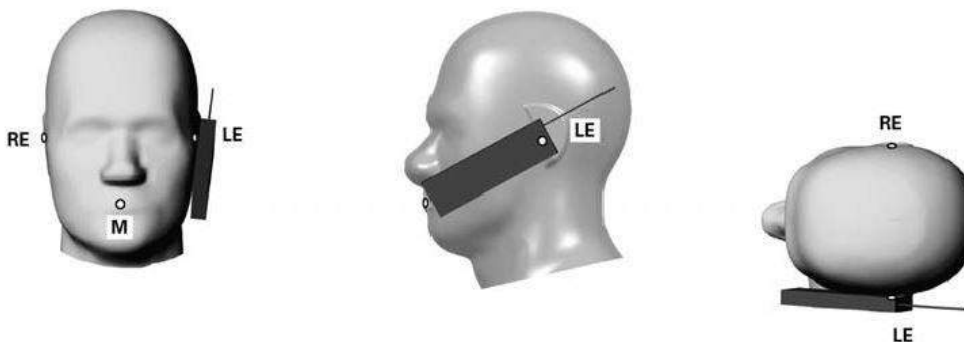


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

10.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

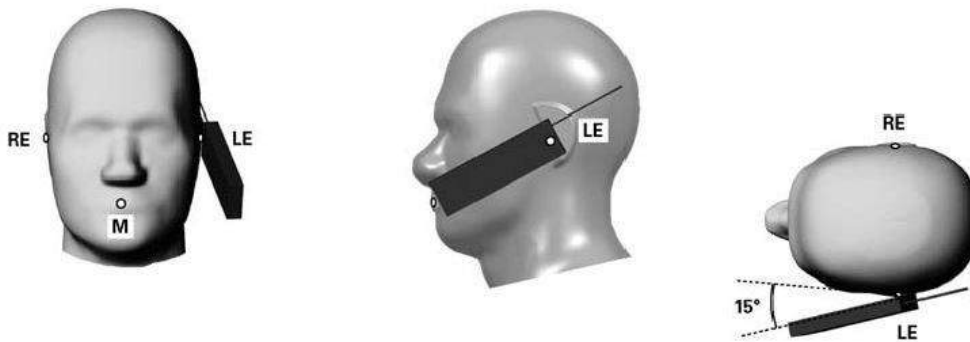


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

10.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

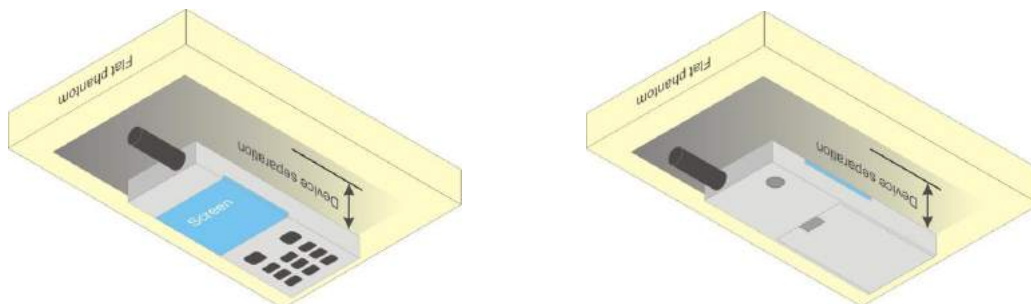


Fig 9.4 Body Worn Position



10.5 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.⁶ The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

10.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9$ cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

11. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

General Note:

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900 is considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode

<WiFi off>

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Head	UAT	GSM 1 Tx slot	31.23	31.15	31.12	32.00	22.23	22.15	22.12	23.00
		GPRS 1 Tx slot	31.25	31.15	31.12	32.00	22.25	22.15	22.12	23.00
		GPRS 2 Tx slots	27.60	27.42	27.31	29.00	21.60	21.42	21.31	23.00
		GPRS 3 Tx slots	26.40	25.93	25.65	27.00	22.14	21.67	21.39	22.74
		GPRS 4 Tx slots	25.71	25.74	25.77	26.50	22.71	22.74	22.77	23.50
		EDGE 1 Tx slot	27.41	27.36	27.34	27.50	18.41	18.36	18.34	18.50
		EDGE 2 Tx slots	24.27	24.31	24.34	26.00	18.27	18.31	18.34	20.00
		EDGE 3 Tx slots	23.52	23.52	23.43	24.50	19.26	19.26	19.17	20.24
		EDGE 4 Tx slots	23.50	23.37	23.29	23.50	20.50	20.37	20.29	20.50

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Head	LAT	GSM 1 Tx slot	32.26	32.18	32.20	33.00	23.26	23.18	23.20	24.00
		GPRS 1 Tx slot	32.25	32.16	32.19	33.00	23.25	23.16	23.19	24.00
		GPRS 2 Tx slots	28.70	28.45	28.40	30.00	22.70	22.45	22.40	24.00
		GPRS 3 Tx slots	27.49	26.99	26.75	28.00	23.23	22.73	22.49	23.74
		GPRS 4 Tx slots	27.75	27.74	27.80	28.00	24.75	24.74	24.80	25.00
		EDGE 1 Tx slot	27.41	27.36	27.34	27.50	18.41	18.36	18.34	18.50
		EDGE 2 Tx slots	24.27	24.31	24.34	26.00	18.27	18.31	18.34	20.00
		EDGE 3 Tx slots	23.52	23.52	23.43	24.50	19.26	19.26	19.17	20.24
		EDGE 4 Tx slots	23.50	23.37	23.29	23.50	20.50	20.37	20.29	20.50

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Hotspot / Body-worn / Product Specific	UAT / LAT	GSM 1 Tx slot	32.26	32.18	32.20	33.00	23.26	23.18	23.20	24.00
		GPRS 1 Tx slot	32.25	32.16	32.19	33.00	23.25	23.16	23.19	24.00
		GPRS 2 Tx slots	28.70	28.45	28.40	30.00	22.70	22.45	22.40	24.00
		GPRS 3 Tx slots	27.49	26.99	26.75	28.00	23.23	22.73	22.49	23.74
		GPRS 4 Tx slots	27.75	27.74	27.80	28.00	24.75	24.74	24.80	25.00
		EDGE 1 Tx slot	27.41	27.36	27.34	27.50	18.41	18.36	18.34	18.50
		EDGE 2 Tx slots	24.27	24.31	24.34	26.00	18.27	18.31	18.34	20.00
		EDGE 3 Tx slots	23.52	23.52	23.43	24.50	19.26	19.26	19.17	20.24
		EDGE 4 Tx slots	23.50	23.37	23.29	23.50	20.50	20.37	20.29	20.50

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	UAT	GSM 1 Tx slot	26.77	26.59	26.75	28.00	17.77	17.59	17.75	19.00
		GPRS 1 Tx slot	26.82	26.64	26.77	28.00	17.82	17.64	17.77	19.00
		GPRS 2 Tx slots	23.90	23.81	23.83	25.00	17.90	17.81	17.83	19.00
		GPRS 3 Tx slots	22.17	22.12	22.10	23.50	17.91	17.86	17.84	19.24
		GPRS 4 Tx slots	20.25	20.14	20.09	22.00	17.25	17.14	17.09	19.00
		EDGE 1 Tx slot	26.24	26.15	26.05	26.50	17.24	17.15	17.05	17.50
		EDGE 2 Tx slots	23.22	23.20	23.08	25.00	17.22	17.20	17.08	19.00
		EDGE 3 Tx slots	21.40	21.36	21.28	23.00	17.14	17.10	17.02	18.74
		EDGE 4 Tx slots	20.34	20.32	20.15	22.00	17.34	17.32	17.15	19.00

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	LAT	GSM 1 Tx slot	29.28	29.16	29.26	30.00	20.33	20.16	20.26	21.00
		GPRS 1 Tx slot	29.26	29.17	29.27	30.00	20.33	20.17	20.27	21.00
		GPRS 2 Tx slots	26.48	26.41	26.33	27.50	20.48	20.41	20.33	21.50
		GPRS 3 Tx slots	26.27	26.21	26.12	27.00	22.01	21.95	21.86	22.74
		GPRS 4 Tx slots	24.32	24.22	24.18	25.50	21.32	21.22	21.18	22.50
		EDGE 1 Tx slot	26.24	26.15	26.05	26.50	17.24	17.15	17.05	17.50
		EDGE 2 Tx slots	24.29	24.26	24.13	25.50	18.29	18.26	18.13	19.50
		EDGE 3 Tx slots	22.49	22.46	22.31	23.50	18.23	18.20	18.05	19.24
		EDGE 4 Tx slots	21.39	21.36	21.24	22.50	18.39	18.36	18.24	19.50

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Hotspot / Body-worn / Product Specific	UAT / LAT	GSM 1 Tx slot	29.28	29.16	29.26	30.00	20.33	20.16	20.26	21.00
		GPRS 1 Tx slot	29.26	29.17	29.27	30.00	20.33	20.17	20.27	21.00
		GPRS 2 Tx slots	26.48	26.41	26.33	27.50	20.48	20.41	20.33	21.50
		GPRS 3 Tx slots	26.27	26.21	26.12	27.00	22.01	21.95	21.86	22.74
		GPRS 4 Tx slots	24.32	24.22	24.18	25.50	21.32	21.22	21.18	22.50
		EDGE 1 Tx slot	26.24	26.15	26.05	26.50	17.24	17.15	17.05	17.50
		EDGE 2 Tx slots	24.29	24.26	24.13	25.50	18.29	18.26	18.13	19.50
		EDGE 3 Tx slots	22.49	22.46	22.31	23.50	18.23	18.20	18.05	19.24
		EDGE 4 Tx slots	21.39	21.36	21.24	22.50	18.39	18.36	18.24	19.50

<Wifi on>

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Head	UAT	GSM 1 Tx slot	31.23	31.15	31.12	32.00	22.23	22.15	22.12	23.00
		GPRS 1 Tx slot	31.25	31.15	31.12	32.00	22.25	22.15	22.12	23.00
		GPRS 2 Tx slots	27.60	27.42	27.31	29.00	21.60	21.42	21.31	23.00
		GPRS 3 Tx slots	26.40	25.93	25.65	27.00	22.14	21.67	21.39	22.74
		GPRS 4 Tx slots	25.71	25.74	25.77	26.00	22.71	22.74	22.77	23.00
		EDGE 1 Tx slot	27.41	27.36	27.34	27.50	18.41	18.36	18.34	18.50
		EDGE 2 Tx slots	24.27	24.31	24.34	26.00	18.27	18.31	18.34	20.00
		EDGE 3 Tx slots	23.52	23.52	23.43	24.50	19.26	19.26	19.17	20.24
		EDGE 4 Tx slots	23.50	23.37	23.29	23.50	20.50	20.37	20.29	20.50

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Head	LAT	GSM 1 Tx slot	32.26	32.18	32.20	33.00	23.26	23.18	23.20	24.00
		GPRS 1 Tx slot	32.25	32.16	32.19	33.00	23.25	23.16	23.19	24.00
		GPRS 2 Tx slots	28.70	28.45	28.40	30.00	22.70	22.45	22.40	24.00
		GPRS 3 Tx slots	27.49	26.99	26.75	28.00	23.23	22.73	22.49	23.74
		GPRS 4 Tx slots	27.75	27.74	27.80	28.00	24.75	24.74	24.80	25.00
		EDGE 1 Tx slot	27.41	27.36	27.34	27.50	18.41	18.36	18.34	18.50
		EDGE 2 Tx slots	24.27	24.31	24.34	26.00	18.27	18.31	18.34	20.00
		EDGE 3 Tx slots	23.52	23.52	23.43	24.50	19.26	19.26	19.17	20.24
		EDGE 4 Tx slots	23.50	23.37	23.29	23.50	20.50	20.37	20.29	20.50

Power Selection	Transmit Antenna	GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	128	189	251		128	189	251	
		Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
Hotspot / Body-worn / Product Specific	UAT / LAT	GSM 1 Tx slot	32.26	32.18	32.20	33.00	23.26	23.18	23.20	24.00
		GPRS 1 Tx slot	32.25	32.16	32.19	33.00	23.25	23.16	23.19	24.00
		GPRS 2 Tx slots	28.70	28.45	28.40	30.00	22.70	22.45	22.40	24.00
		GPRS 3 Tx slots	27.49	26.99	26.75	28.00	23.23	22.73	22.49	23.74
		GPRS 4 Tx slots	27.75	27.74	27.80	28.00	24.75	24.74	24.80	25.00
		EDGE 1 Tx slot	27.41	27.36	27.34	27.50	18.41	18.36	18.34	18.50
		EDGE 2 Tx slots	24.27	24.31	24.34	26.00	18.27	18.31	18.34	20.00
		EDGE 3 Tx slots	23.52	23.52	23.43	24.50	19.26	19.26	19.17	20.24
		EDGE 4 Tx slots	23.50	23.37	23.29	23.50	20.50	20.37	20.29	20.50

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	UAT	GSM 1 Tx slot	26.77	26.59	26.75	27.50	17.77	17.59	17.75	18.50
		GPRS 1 Tx slot	26.82	26.64	26.77	27.50	17.82	17.64	17.77	18.50
		GPRS 2 Tx slots	23.90	23.81	23.83	24.50	17.90	17.81	17.83	18.50
		GPRS 3 Tx slots	22.17	22.12	22.10	23.00	17.91	17.86	17.84	18.74
		GPRS 4 Tx slots	20.25	20.14	20.09	21.50	17.25	17.14	17.09	18.50
		EDGE 1 Tx slot	26.24	26.15	26.05	26.50	17.24	17.15	17.05	17.50
		EDGE 2 Tx slots	23.22	23.20	23.08	24.50	17.22	17.20	17.08	18.50
		EDGE 3 Tx slots	21.40	21.36	21.28	22.50	17.14	17.10	17.02	18.24
		EDGE 4 Tx slots	20.34	20.32	20.15	21.50	17.34	17.32	17.15	18.50

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Head	LAT	GSM 1 Tx slot	29.28	29.16	29.26	30.00	20.33	20.16	20.26	21.00
		GPRS 1 Tx slot	29.26	29.17	29.27	30.00	20.33	20.17	20.27	21.00
		GPRS 2 Tx slots	26.48	26.41	26.33	27.50	20.48	20.41	20.33	21.50
		GPRS 3 Tx slots	26.27	26.21	26.12	27.00	22.01	21.95	21.86	22.74
		GPRS 4 Tx slots	24.32	24.22	24.18	25.50	21.32	21.22	21.18	22.50
		EDGE 1 Tx slot	26.24	26.15	26.05	26.50	17.24	17.15	17.05	17.50
		EDGE 2 Tx slots	24.29	24.26	24.13	25.50	18.29	18.26	18.13	19.50
		EDGE 3 Tx slots	22.49	22.46	22.31	23.50	18.23	18.20	18.05	19.24
		EDGE 4 Tx slots	21.39	21.36	21.24	22.50	18.39	18.36	18.24	19.50

Power Selection	Transmit Antenna	GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
		TX Channel	512	661	810		512	661	810	
		Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
Hotspot / Body-worn / Product Specific	UAT / LAT	GSM 1 Tx slot	29.28	29.16	29.26	30.00	20.33	20.16	20.26	21.00
		GPRS 1 Tx slot	29.26	29.17	29.27	30.00	20.33	20.17	20.27	21.00
		GPRS 2 Tx slots	26.48	26.41	26.33	27.50	20.48	20.41	20.33	21.50
		GPRS 3 Tx slots	26.27	26.21	26.12	27.00	22.01	21.95	21.86	22.74
		GPRS 4 Tx slots	24.32	24.22	24.18	25.50	21.32	21.22	21.18	22.50
		EDGE 1 Tx slot	26.24	26.15	26.05	26.50	17.24	17.15	17.05	17.50
		EDGE 2 Tx slots	24.29	24.26	24.13	25.50	18.29	18.26	18.13	19.50
		EDGE 3 Tx slots	22.49	22.46	22.31	23.50	18.23	18.20	18.05	19.24
		EDGE 4 Tx slots	21.39	21.36	21.24	22.50	18.39	18.36	18.24	19.50

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5
Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPCCH, DPDCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.							

Setup Configuration

HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

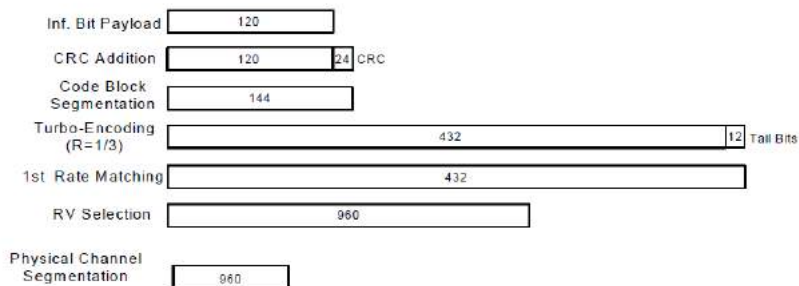
DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Cycle to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12
Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)
Setup Configuration



<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

<WiFi off>

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
		Max. Power		19.5			22.5			24.0		
Head	UAT	3GPP Rel 99	AMR 12.2Kbps	18.99	18.80	18.58	21.05	21.10	21.15	23.12	23.88	23.72
		3GPP Rel 99	RMC 12.2Kbps	19.00	18.85	18.60	21.10	21.13	21.18	23.25	23.89	23.75
		Max. Power		18.0			21.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	17.93	17.85	17.86	20.30	20.25	20.38	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	17.99	17.93	17.84	20.20	20.27	20.29	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	17.50	17.41	17.39	19.82	19.71	19.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	17.48	17.44	17.40	19.65	19.68	19.80	22.45	22.27	22.26
		Max. Power		18.0			21.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	17.94	17.85	17.83	20.15	20.18	20.20	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	17.98	17.92	17.80	20.20	20.25	20.26	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	17.50	17.38	17.34	19.75	19.79	19.80	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	17.46	17.41	17.39	19.53	19.70	19.71	22.39	22.26	22.24
		Max. Power		18.0			21.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	17.99	17.87	17.83	20.20	20.22	20.23	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	15.90	15.90	15.83	18.19	18.20	18.21	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	16.96	16.84	16.82	19.20	19.22	19.23	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	15.97	15.98	15.83	18.20	18.22	18.24	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	17.99	17.91	17.83	20.30	20.20	20.11	22.90	22.80	22.60



Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Head	LAT	Max. Power		24.0			24.0			24.0		
		3GPP Rel 99	AMR 12.2Kbps	23.15	23.04	23.00	23.28	23.21	23.12	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	23.20	23.06	23.05	23.33	23.23	23.25	23.89	23.75	23.83
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	22.16	22.07	22.07	22.31	22.22	22.15	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	22.21	22.14	22.06	22.30	22.27	22.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	21.75	21.60	21.57	21.82	21.71	21.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	21.67	21.63	21.59	21.80	21.68	21.56	22.45	22.27	22.26
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.13	22.05	22.04	22.29	22.18	22.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.12	22.00	22.27	22.25	22.08	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	21.73	21.58	21.54	21.78	21.79	21.59	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	21.65	21.60	21.56	21.75	21.70	21.52	22.39	22.26	22.24
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	22.15	22.05	22.02	22.25	22.22	22.19	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	20.09	20.10	20.03	20.30	20.20	20.18	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	21.15	21.04	21.02	21.28	21.20	21.20	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	20.15	20.07	20.05	20.25	20.22	20.22	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.05	22.30	22.20	22.11	22.90	22.80	22.60

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Hotspot	UAT	Max. Power		23.0			24.0			24.0		
		3GPP Rel 99	AMR 12.2Kbps	22.20	22.08	22.00	23.28	23.21	23.12	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	22.27	22.11	22.01	23.33	23.23	23.25	23.89	23.75	23.83
		Max. Power		22.0			23.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	21.12	21.01	20.99	22.31	22.22	22.15	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	21.11	21.04	20.98	22.30	22.27	22.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	20.70	20.50	20.49	21.82	21.71	21.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	20.66	20.57	20.56	21.80	21.68	21.56	22.45	22.27	22.26
		Max. Power		22.0			23.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	21.04	21.04	20.95	22.29	22.18	22.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	21.11	21.02	20.96	22.27	22.25	22.08	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	20.65	20.56	20.47	21.78	21.79	21.59	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	20.61	20.53	20.49	21.75	21.70	21.52	22.39	22.26	22.24
		Max. Power		22.0			23.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	21.06	21.01	20.96	22.25	22.22	22.19	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	18.99	19.10	19.01	20.30	20.20	20.18	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	20.12	19.98	20.02	21.28	21.20	21.20	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	19.11	19.01	19.01	20.25	20.22	20.22	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	21.12	21.05	20.98	22.30	22.20	22.11	22.90	22.80	22.60



Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Hotspot	LAT	Max. Power		23.5			23.5			24.0		
		3GPP Rel 99	AMR 12.2Kbps	22.20	22.08	22.00	22.15	22.13	22.20	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	22.27	22.11	22.01	22.19	22.15	22.21	23.89	23.75	23.83
		Max. Power		22.0			22.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	21.12	21.01	20.99	21.25	21.21	21.06	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	21.11	21.04	20.98	21.25	21.21	21.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	20.70	20.50	20.49	20.79	20.64	20.58	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	20.66	20.57	20.56	20.70	20.58	20.55	22.45	22.27	22.26
		Max. Power		22.0			22.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	21.04	21.04	20.95	21.28	21.13	21.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	21.11	21.02	20.96	21.23	21.25	21.07	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	20.65	20.56	20.47	20.74	20.78	20.51	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	20.61	20.53	20.49	20.66	20.63	20.44	22.39	22.26	22.24
		Max. Power		22.0			22.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	21.06	21.01	20.96	21.22	21.16	21.06	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	18.99	19.10	19.01	19.21	19.18	18.99	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	20.12	19.98	20.02	20.20	20.16	20.12	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	19.11	19.01	19.01	19.15	19.15	19.11	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	21.12	21.05	20.98	21.22	21.19	21.12	22.90	22.80	22.60

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Body-worn / Product Specific	UAT / LAT	Max. Power		24.0			24.0			24.0		
		3GPP Rel 99	AMR 12.2Kbps	23.15	23.04	23.00	23.28	23.21	23.12	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	23.20	23.06	23.05	23.33	23.23	23.25	23.89	23.75	23.83
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	22.16	22.07	22.07	22.31	22.22	22.15	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	22.21	22.14	22.06	22.30	22.27	22.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	21.75	21.60	21.57	21.82	21.71	21.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	21.67	21.63	21.59	21.80	21.68	21.56	22.45	22.27	22.26
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.13	22.05	22.04	22.29	22.18	22.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.12	22.00	22.27	22.25	22.08	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	21.73	21.58	21.54	21.78	21.79	21.59	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	21.65	21.60	21.56	21.75	21.70	21.52	22.39	22.26	22.24
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	22.15	22.05	22.02	22.25	22.22	22.19	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	20.09	20.10	20.03	20.30	20.20	20.18	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	21.15	21.04	21.02	21.28	21.20	21.20	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	20.15	20.07	20.05	20.25	20.22	20.22	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.05	22.30	22.20	22.11	22.90	22.80	22.60



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Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Head	UAT	Max. Power		19.0			22.0			24.0		
		3GPP Rel 99	AMR 12.2Kbps	18.99	18.80	18.58	21.05	21.10	21.15	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	19.00	18.85	18.60	21.10	21.13	21.18	23.89	23.75	23.83
		Max. Power		18.0			21.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	17.93	17.85	17.86	20.30	20.25	20.38	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	17.99	17.93	17.84	20.20	20.27	20.29	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	17.50	17.41	17.39	19.82	19.71	19.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	17.48	17.44	17.40	19.65	19.68	19.80	22.45	22.27	22.26
		Max. Power		18.0			21.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	17.94	17.85	17.83	20.15	20.18	20.20	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	17.98	17.92	17.80	20.20	20.25	20.26	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	17.50	17.38	17.34	19.75	19.79	19.80	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	17.46	17.41	17.39	19.53	19.70	19.71	22.39	22.26	22.24
		Max. Power		18.0			21.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	17.99	17.87	17.83	20.20	20.22	20.23	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	15.90	15.90	15.83	18.19	18.20	18.21	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	16.96	16.84	16.82	19.20	19.22	19.23	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	15.97	15.98	15.83	18.20	18.22	18.24	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	17.99	17.91	17.83	20.30	20.20	20.11	22.90	22.80	22.60

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Head	LAT	Max. Power		24.0			24.0			24.0		
		3GPP Rel 99	AMR 12.2Kbps	23.15	23.04	23.00	23.28	23.21	23.12	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	23.20	23.06	23.05	23.33	23.23	23.25	23.89	23.75	23.83
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	22.16	22.07	22.07	22.31	22.22	22.15	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	22.21	22.14	22.06	22.30	22.27	22.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	21.75	21.60	21.57	21.82	21.71	21.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	21.67	21.63	21.59	21.80	21.68	21.56	22.45	22.27	22.26
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.13	22.05	22.04	22.29	22.18	22.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.12	22.00	22.27	22.25	22.08	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	21.73	21.58	21.54	21.78	21.79	21.59	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	21.65	21.60	21.56	21.75	21.70	21.52	22.39	22.26	22.24
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	22.15	22.05	22.02	22.25	22.22	22.19	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	20.09	20.10	20.03	20.30	20.20	20.18	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	21.15	21.04	21.02	21.28	21.20	21.20	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	20.15	20.07	20.05	20.25	20.22	20.22	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.05	22.30	22.20	22.11	22.90	22.80	22.60



Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
		Max. Power		22.5			24.0			24.0		
Hotspot	UAT	3GPP Rel 99	AMR 12.2Kbps	22.20	22.08	22.00	23.28	23.21	23.12	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	22.27	22.11	22.01	23.33	23.23	23.25	23.89	23.75	23.83
		Max. Power		21.5			23.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	21.12	21.01	20.99	22.31	22.22	22.15	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	21.11	21.04	20.98	22.30	22.27	22.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	20.70	20.50	20.49	21.82	21.71	21.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	20.66	20.57	20.56	21.80	21.68	21.56	22.45	22.27	22.26
		Max. Power		21.5			23.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	21.04	21.04	20.95	22.29	22.18	22.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	21.11	21.02	20.96	22.27	22.25	22.08	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	20.65	20.56	20.47	21.78	21.79	21.59	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	20.61	20.53	20.49	21.75	21.70	21.52	22.39	22.26	22.24
		Max. Power		21.5			23.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	21.06	21.01	20.96	22.25	22.22	22.19	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	18.99	19.10	19.01	20.30	20.20	20.18	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	20.12	19.98	20.02	21.28	21.20	21.20	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	19.11	19.01	19.01	20.25	20.22	20.22	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	21.12	21.05	20.98	22.30	22.20	22.11	22.90	22.80	22.60

Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
		Max. Power		23.0			23.0			24.0		
Hotspot	LAT	3GPP Rel 99	AMR 12.2Kbps	22.20	22.08	22.00	22.15	22.13	22.20	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	22.27	22.11	22.01	22.19	22.15	22.21	23.89	23.75	23.83
		Max. Power		22.0			22.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	21.12	21.01	20.99	21.25	21.21	21.06	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	21.11	21.04	20.98	21.25	21.21	21.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	20.70	20.50	20.49	20.79	20.64	20.58	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	20.66	20.57	20.56	20.70	20.58	20.55	22.45	22.27	22.26
		Max. Power		22.0			22.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	21.04	21.04	20.95	21.28	21.13	21.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	21.11	21.02	20.96	21.23	21.25	21.07	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	20.65	20.56	20.47	20.74	20.78	20.51	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	20.61	20.53	20.49	20.66	20.63	20.44	22.39	22.26	22.24
		Max. Power		22.0			22.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	21.06	21.01	20.96	21.22	21.16	21.16	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	18.99	19.10	19.01	19.21	19.18	19.10	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	20.12	19.98	20.02	20.20	20.16	20.16	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	19.11	19.01	19.01	19.15	19.15	19.17	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	21.12	21.05	20.98	21.22	21.19	21.05	22.90	22.80	22.60



Power Selection	Transmit Antenna	Band		WCDMA II			WCDMA IV			WCDMA V		
		TX Channel		9262	9400	9538	1312	1413	1513	4132	4182	4233
		Rx Channel		9662	9800	9938	1537	1638	1738	4357	4407	4458
		Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6
Body-worn / Product Specific	UAT / LAT	Max. Power		24.0			24.0			24.0		
		3GPP Rel 99	AMR 12.2Kbps	23.15	23.04	23.00	23.28	23.21	23.12	23.88	23.72	23.81
		3GPP Rel 99	RMC 12.2Kbps	23.20	23.06	23.05	23.33	23.23	23.25	23.89	23.75	23.83
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSDPA Subtest-1	22.16	22.07	22.07	22.31	22.22	22.15	22.92	22.77	22.71
		3GPP Rel 6	HSDPA Subtest-2	22.21	22.14	22.06	22.30	22.27	22.10	22.91	22.80	22.77
		3GPP Rel 6	HSDPA Subtest-3	21.75	21.60	21.57	21.82	21.71	21.61	22.45	22.31	22.27
		3GPP Rel 6	HSDPA Subtest-4	21.67	21.63	21.59	21.80	21.68	21.56	22.45	22.27	22.26
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 8	DC-HSDPA Subtest-1	22.13	22.05	22.04	22.29	22.18	22.12	22.89	22.75	22.69
		3GPP Rel 8	DC-HSDPA Subtest-2	22.18	22.12	22.00	22.27	22.25	22.08	22.87	22.79	22.74
		3GPP Rel 8	DC-HSDPA Subtest-3	21.73	21.58	21.54	21.78	21.79	21.59	22.42	22.28	22.23
		3GPP Rel 8	DC-HSDPA Subtest-4	21.65	21.60	21.56	21.75	21.70	21.52	22.39	22.26	22.24
		Max. Power		23.0			23.0			23.0		
		3GPP Rel 6	HSUPA Subtest-1	22.15	22.05	22.02	22.25	22.22	22.19	22.81	22.72	22.69
		3GPP Rel 6	HSUPA Subtest-2	20.09	20.10	20.03	20.30	20.20	20.18	20.87	20.67	20.71
		3GPP Rel 6	HSUPA Subtest-3	21.15	21.04	21.02	21.28	21.20	21.20	21.91	21.77	21.69
		3GPP Rel 6	HSUPA Subtest-4	20.15	20.07	20.05	20.25	20.22	20.22	20.94	20.59	20.71
		3GPP Rel 6	HSUPA Subtest-5	22.20	22.10	22.05	22.30	22.20	22.11	22.90	22.80	22.60

<CDMA2000 Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6Kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

<WiFi off>

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.5			20.0			25.0		
Head	UAT	RC1 SO55	23.73	23.75	23.72	19.27	19.36	19.33	24.31	24.36	24.38
		RC3 SO55	23.83	23.85	23.77	19.26	19.40	19.32	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	23.84	23.86	23.78	19.27	19.36	19.33	24.30	24.33	24.40
		RC3 SO32 (+SCH)	23.75	23.81	23.70	19.24	19.35	19.29	24.28	24.35	24.39
		RTAP 153.6Kbps	23.82	23.83	23.79	19.29	19.39	19.34	24.28	24.35	24.43
		RETAP 4096Bits	23.80	23.81	23.66	19.30	19.38	19.31	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			25.0			25.0		
Head	LAT	RC1 SO55	24.31	24.32	24.26	24.76	24.56	24.57	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	24.68	24.47	24.40	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	24.88	24.66	24.64	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	24.70	24.45	24.38	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	24.62	24.65	24.52	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	24.49	24.20	24.16	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			24.5			25.0		
Hotspot	UAT	RC1 SO55	24.31	24.32	24.26	23.44	23.47	23.47	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	23.40	23.48	23.42	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	23.42	23.49	23.46	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	23.42	23.48	23.45	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	23.42	23.49	23.39	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	23.41	23.47	23.47	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			24.0			25.0		
Hotspot	LAT	RC1 SO55	24.31	24.32	24.26	23.44	23.47	23.47	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	23.40	23.48	23.42	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	23.42	23.49	23.46	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	23.42	23.48	23.45	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	23.42	23.49	23.39	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	23.41	23.47	23.47	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			25.0			25.0		
Body-worn / Product Specific	UAT / LAT	RC1 SO55	24.31	24.32	24.26	24.76	24.56	24.57	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	24.68	24.47	24.40	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	24.88	24.66	24.64	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	24.70	24.45	24.38	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	24.62	24.65	24.52	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	24.49	24.20	24.16	24.25	24.33	24.40

<Wifi on>

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	24.0			19.5			24.5		
Head	UAT	RC1 SO55	23.73	23.75	23.72	19.27	19.36	19.33	24.31	24.36	24.38
		RC3 SO55	23.83	23.85	23.77	19.26	19.40	19.32	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	23.84	23.86	23.78	19.27	19.36	19.33	24.30	24.33	24.40
		RC3 SO32 (+SCH)	23.75	23.81	23.70	19.24	19.35	19.29	24.28	24.35	24.39
		RTAP 153.6Kbps	23.82	23.83	23.79	19.29	19.39	19.34	24.28	24.35	24.43
		RETAP 4096Bits	23.80	23.81	23.66	19.30	19.38	19.31	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			25.0			25.0		
Head	LAT	RC1 SO55	24.31	24.32	24.26	24.76	24.56	24.57	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	24.68	24.47	24.40	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	24.88	24.66	24.64	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	24.70	24.45	24.38	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	24.62	24.65	24.52	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	24.49	24.20	24.16	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			24.0			25.0		
Hotspot	UAT	RC1 SO55	24.31	24.32	24.26	23.44	23.47	23.47	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	23.40	23.48	23.42	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	23.42	23.49	23.46	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	23.42	23.48	23.45	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	23.42	23.49	23.39	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	23.41	23.47	23.47	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			23.5			25.0		
Hotspot	LAT	RC1 SO55	24.31	24.32	24.26	23.44	23.47	23.47	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	23.40	23.48	23.42	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	23.42	23.49	23.46	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	23.42	23.48	23.45	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	23.42	23.49	23.39	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	23.41	23.47	23.47	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			24.0			25.0		
Body-worn	UAT	RC1 SO55	24.31	24.32	24.26	23.44	23.47	23.47	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	23.40	23.48	23.42	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	23.42	23.49	23.46	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	23.42	23.48	23.45	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	23.42	23.49	23.39	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	23.41	23.47	23.47	24.25	24.33	24.40

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			25.0			25.0		
Body-worn	LAT	RC1 SO55	24.31	24.32	24.26	24.76	24.56	24.57	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	24.68	24.47	24.40	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	24.88	24.66	24.64	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	24.70	24.45	24.38	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	24.62	24.65	24.52	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	24.49	24.20	24.16	24.25	24.33	24.40

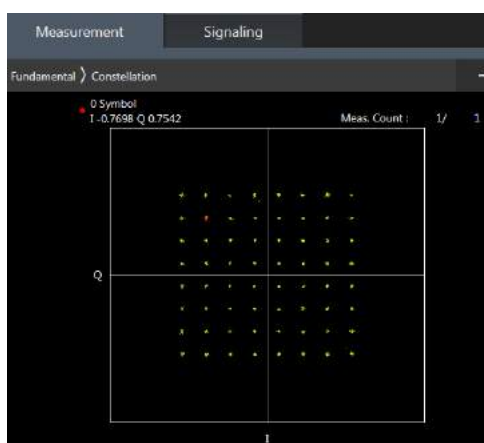
Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			25.0			24.0		
Product Specific	UAT	RC1 SO55	24.31	24.32	24.26	24.76	24.56	24.57	23.44	23.47	23.47
		RC3 SO55	24.30	24.26	24.26	24.68	24.47	24.40	23.40	23.48	23.42
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	24.88	24.66	24.64	23.42	23.49	23.46
		RC3 SO32 (+SCH)	24.29	24.23	24.25	24.70	24.45	24.38	23.42	23.48	23.45
		RTAP 153.6Kbps	24.45	24.36	24.36	24.62	24.65	24.52	23.42	23.49	23.39
		RETAP 4096Bits	24.44	24.35	24.35	24.49	24.20	24.16	23.41	23.47	23.47

Power Selection	Transmit Antenna	Band	BC 0			BC 1			BC 10		
		TX Channel	1013	384	777	25	600	1175	476	580	684
		Frequency (MHz)	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1
		Max. Power	25.0			25.0			25.0		
Product Specific	LAT	RC1 SO55	24.31	24.32	24.26	24.76	24.56	24.57	24.31	24.36	24.38
		RC3 SO55	24.30	24.26	24.26	24.68	24.47	24.40	24.29	24.36	24.39
		RC3 SO32 (F+SCH)	24.31	24.26	24.26	24.88	24.66	24.64	24.30	24.33	24.40
		RC3 SO32 (+SCH)	24.29	24.23	24.25	24.70	24.45	24.38	24.28	24.35	24.39
		RTAP 153.6Kbps	24.45	24.36	24.36	24.62	24.65	24.52	24.28	24.35	24.43
		RETAP 4096Bits	24.44	24.35	24.35	24.49	24.20	24.16	24.25	24.33	24.40

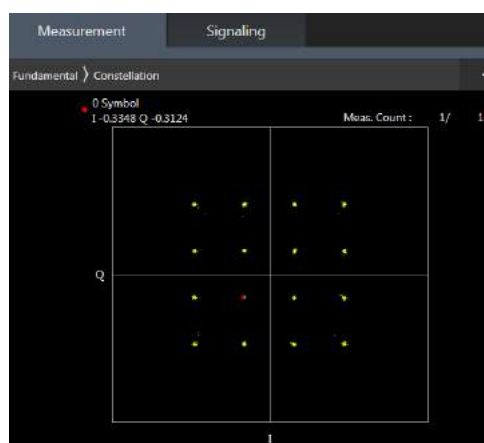
<LTE Conducted Power>

General Note:

1. Anritsu MT88201 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B12 / B26 / B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2 / 4 / 5 / 17 / 38 SAR test and the conducted measurement was covered by Band 12 / 25 / 26 / 41 / 66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM

**<LTE Band 2>**

SAR for LTE B2 is covered by LTE B25 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 4>

SAR for LTE B4 is covered by LTE B66 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 5>

SAR for LTE B5 is covered by LTE B26 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 7>**<WiFi off>**

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				20.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	18.81	18.97	18.95	23.01	23.13	23.36
20	QPSK	1	49	18.76	18.89	18.78	23.06	23.05	23.09
20	QPSK	1	99	18.77	18.89	18.78	23.02	23.13	23.06
20	QPSK	50	0	18.74	18.95	18.74	22.01	22.13	22.24
20	QPSK	50	24	18.79	18.90	18.81	22.03	22.20	22.08
20	QPSK	50	50	18.74	18.94	18.81	22.02	22.10	22.10
20	QPSK	100	0	18.77	18.94	18.72	22.00	22.12	22.19
20	16QAM	1	0	18.80	18.88	18.80	22.37	22.53	22.75
20	16QAM	1	49	18.80	18.96	18.80	22.15	22.40	22.33
20	16QAM	1	99	18.78	18.93	18.71	22.25	22.50	22.34
20	16QAM	50	0	18.71	18.91	18.76	21.06	21.26	21.29
20	16QAM	50	24	18.78	18.94	18.76	21.10	21.30	21.19
20	16QAM	50	50	18.76	18.96	18.81	21.05	21.24	21.19
20	16QAM	100	0	18.78	18.95	18.77	21.09	21.28	21.21
20	64QAM	1	0	18.74	18.90	18.81	21.32	21.47	21.61
20	64QAM	1	49	18.73	18.89	18.81	21.00	21.25	21.28
20	64QAM	1	99	18.77	18.93	18.81	21.12	21.33	21.38
20	64QAM	50	0	18.76	18.88	18.78	20.04	20.26	20.32
20	64QAM	50	24	18.77	18.94	18.74	20.07	20.30	20.22
20	64QAM	50	50	18.71	18.86	18.75	20.02	20.21	20.17
20	64QAM	100	0	18.80	18.87	18.72	20.06	20.29	20.19
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	18.76	18.89	18.74	22.64	22.80	22.87
15	QPSK	1	37	18.71	18.93	18.81	22.53	22.77	22.65
15	QPSK	1	74	18.72	18.92	18.76	22.58	22.67	22.62
15	QPSK	36	0	18.79	18.88	18.72	21.59	21.75	21.70
15	QPSK	36	20	18.77	18.92	18.80	21.56	21.81	21.60
15	QPSK	36	39	18.75	18.86	18.71	21.60	21.73	21.60
15	QPSK	75	0	18.75	18.93	18.75	21.65	21.80	21.70
15	16QAM	1	0	18.79	18.89	18.75	22.00	22.13	22.22
15	16QAM	1	37	18.77	18.88	18.73	21.79	22.08	22.00
15	16QAM	1	74	18.77	18.87	18.79	21.94	22.00	21.96
15	16QAM	36	0	18.75	18.91	18.78	20.67	20.82	20.79
15	16QAM	36	20	18.78	18.94	18.78	20.64	20.90	20.75
15	16QAM	36	39	18.79	18.92	18.80	20.69	20.80	20.67
15	16QAM	75	0	18.81	18.96	18.79	20.74	20.86	20.81
15	64QAM	1	0	18.80	18.96	18.76	20.88	21.08	21.15
15	64QAM	1	37	18.71	18.90	18.77	20.75	21.06	20.93
15	64QAM	1	74	18.78	18.88	18.72	20.82	20.94	20.89
15	64QAM	36	0	18.78	18.96	18.72	19.70	19.89	19.82
15	64QAM	36	20	18.73	18.86	18.80	19.65	19.93	19.76
15	64QAM	36	39	18.78	18.92	18.76	19.75	19.85	19.72
15	64QAM	75	0	18.77	18.86	18.79	19.75	19.91	19.82
Channel				20800	21100	21400	20800	21100	21400



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Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	18.73	18.94	18.77	22.58	22.75	22.76
10	QPSK	1	25	18.75	18.87	18.77	22.54	22.78	22.85
10	QPSK	1	49	18.81	18.89	18.80	22.47	22.67	22.73
10	QPSK	25	0	18.73	18.87	18.79	21.56	21.71	21.73
10	QPSK	25	12	18.75	18.89	18.79	21.55	21.82	21.78
10	QPSK	25	25	18.74	18.88	18.80	21.50	21.73	21.86
10	QPSK	50	0	18.78	18.95	18.74	21.51	21.76	21.76
10	16QAM	1	0	18.75	18.91	18.78	21.94	22.12	22.08
10	16QAM	1	25	18.74	18.88	18.78	21.85	22.08	22.24
10	16QAM	1	49	18.79	18.87	18.77	21.73	22.04	22.12
10	16QAM	25	0	18.74	18.92	18.79	20.65	20.83	20.80
10	16QAM	25	12	18.71	18.91	18.72	20.64	20.93	20.89
10	16QAM	25	25	18.81	18.88	18.72	20.60	20.85	20.95
10	16QAM	50	0	18.80	18.92	18.79	20.63	20.85	20.86
10	64QAM	1	0	18.77	18.94	18.74	21.28	21.38	21.52
10	64QAM	1	25	18.78	18.86	18.74	20.97	21.24	21.28
10	64QAM	1	49	18.71	18.89	18.72	21.09	21.27	21.30
10	64QAM	25	0	18.79	18.89	18.75	19.96	20.16	20.22
10	64QAM	25	12	18.80	18.95	18.74	20.05	20.26	20.21
10	64QAM	25	25	18.72	18.91	18.74	20.01	20.11	20.15
10	64QAM	50	0	18.74	18.90	18.76	20.05	20.19	20.10
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	18.71	18.93	18.75	22.55	22.67	22.86
5	QPSK	1	12	18.73	18.96	18.74	22.55	22.74	22.83
5	QPSK	1	24	18.75	18.94	18.71	22.49	22.73	22.72
5	QPSK	12	0	18.80	18.87	18.81	21.55	21.70	21.91
5	QPSK	12	7	18.81	18.87	18.80	21.56	21.81	21.88
5	QPSK	12	13	18.79	18.88	18.74	21.50	21.74	21.84
5	QPSK	25	0	18.77	18.93	18.71	21.51	21.78	21.89
5	16QAM	1	0	18.75	18.96	18.74	21.93	22.02	22.14
5	16QAM	1	12	18.76	18.88	18.72	21.80	22.17	22.21
5	16QAM	1	24	18.78	18.87	18.74	21.81	22.06	22.07
5	16QAM	12	0	18.74	18.91	18.77	20.65	20.79	21.00
5	16QAM	12	7	18.81	18.95	18.79	20.65	20.91	21.03
5	16QAM	12	13	18.77	18.91	18.74	20.64	20.84	20.94
5	16QAM	25	0	18.72	18.94	18.80	20.63	20.89	20.97
5	64QAM	1	0	18.79	18.90	18.81	21.26	21.41	21.54
5	64QAM	1	12	18.75	18.91	18.75	20.93	21.25	21.24
5	64QAM	1	24	18.78	18.92	18.71	21.03	21.25	21.37
5	64QAM	12	0	18.78	18.86	18.71	19.96	20.21	20.31
5	64QAM	12	7	18.77	18.90	18.72	20.05	20.23	20.15
5	64QAM	12	13	18.76	18.87	18.75	19.99	20.18	20.09
5	64QAM	25	0	18.71	18.89	18.77	19.97	20.23	20.12

Power Selection				Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	23.01	23.13	23.36	23.01	23.13	23.36
20	QPSK	1	49	23.06	23.05	23.09	23.06	23.05	23.09
20	QPSK	1	99	23.02	23.13	23.06	23.02	23.13	23.06
20	QPSK	50	0	22.01	22.13	22.24	22.01	22.13	22.24
20	QPSK	50	24	22.03	22.20	22.08	22.03	22.20	22.08
20	QPSK	50	50	22.02	22.10	22.10	22.02	22.10	22.10
20	QPSK	100	0	22.00	22.12	22.19	22.00	22.12	22.19
20	16QAM	1	0	22.37	22.53	22.75	22.37	22.53	22.75
20	16QAM	1	49	22.15	22.40	22.33	22.15	22.40	22.33
20	16QAM	1	99	22.25	22.50	22.34	22.25	22.50	22.34
20	16QAM	50	0	21.06	21.26	21.29	21.06	21.26	21.29
20	16QAM	50	24	21.10	21.30	21.19	21.10	21.30	21.19
20	16QAM	50	50	21.05	21.24	21.19	21.05	21.24	21.19
20	16QAM	100	0	21.09	21.28	21.21	21.09	21.28	21.21
20	64QAM	1	0	21.32	21.47	21.61	21.32	21.47	21.61
20	64QAM	1	49	21.00	21.25	21.28	21.00	21.25	21.28



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20	64QAM	1	99	21.12	21.33	21.38	21.12	21.33	21.38
20	64QAM	50	0	20.04	20.26	20.32	20.04	20.26	20.32
20	64QAM	50	24	20.07	20.30	20.22	20.07	20.30	20.22
20	64QAM	50	50	20.02	20.21	20.17	20.02	20.21	20.17
20	64QAM	100	0	20.06	20.29	20.19	20.06	20.29	20.19
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	22.64	22.80	22.87	22.64	22.80	22.87
15	QPSK	1	37	22.53	22.77	22.65	22.53	22.77	22.65
15	QPSK	1	74	22.58	22.67	22.62	22.58	22.67	22.62
15	QPSK	36	0	21.59	21.75	21.70	21.59	21.75	21.70
15	QPSK	36	20	21.56	21.81	21.60	21.56	21.81	21.60
15	QPSK	36	39	21.60	21.73	21.60	21.60	21.73	21.60
15	QPSK	75	0	21.65	21.80	21.70	21.65	21.80	21.70
15	16QAM	1	0	22.00	22.13	22.22	22.00	22.13	22.22
15	16QAM	1	37	21.79	22.08	22.00	21.79	22.08	22.00
15	16QAM	1	74	21.94	22.00	21.96	21.94	22.00	21.96
15	16QAM	36	0	20.67	20.82	20.79	20.67	20.82	20.79
15	16QAM	36	20	20.64	20.90	20.75	20.64	20.90	20.75
15	16QAM	36	39	20.69	20.80	20.67	20.69	20.80	20.67
15	16QAM	75	0	20.74	20.86	20.81	20.74	20.86	20.81
15	64QAM	1	0	20.88	21.08	21.15	20.88	21.08	21.15
15	64QAM	1	37	20.75	21.06	20.93	20.75	21.06	20.93
15	64QAM	1	74	20.82	20.94	20.89	20.82	20.94	20.89
15	64QAM	36	0	19.70	19.89	19.82	19.70	19.89	19.82
15	64QAM	36	20	19.65	19.93	19.76	19.65	19.93	19.76
15	64QAM	36	39	19.75	19.85	19.72	19.75	19.85	19.72
15	64QAM	75	0	19.75	19.91	19.82	19.75	19.91	19.82
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	22.58	22.75	22.76	22.58	22.75	22.76
10	QPSK	1	25	22.54	22.78	22.85	22.54	22.78	22.85
10	QPSK	1	49	22.47	22.67	22.73	22.47	22.67	22.73
10	QPSK	25	0	21.56	21.71	21.73	21.56	21.71	21.73
10	QPSK	25	12	21.55	21.82	21.78	21.55	21.82	21.78
10	QPSK	25	25	21.50	21.73	21.86	21.50	21.73	21.86
10	QPSK	50	0	21.51	21.76	21.76	21.51	21.76	21.76
10	16QAM	1	0	21.94	22.12	22.08	21.94	22.12	22.08
10	16QAM	1	25	21.85	22.08	22.24	21.85	22.08	22.24
10	16QAM	1	49	21.73	22.04	22.12	21.73	22.04	22.12
10	16QAM	25	0	20.65	20.83	20.80	20.65	20.83	20.80
10	16QAM	25	12	20.64	20.93	20.89	20.64	20.93	20.89
10	16QAM	25	25	20.60	20.85	20.95	20.60	20.85	20.95
10	16QAM	50	0	20.63	20.85	20.86	20.63	20.85	20.86
10	64QAM	1	0	21.28	21.38	21.52	21.28	21.38	21.52
10	64QAM	1	25	20.97	21.24	21.28	20.97	21.24	21.28
10	64QAM	1	49	21.09	21.27	21.30	21.09	21.27	21.30
10	64QAM	25	0	19.96	20.16	20.22	19.96	20.16	20.22
10	64QAM	25	12	20.05	20.26	20.21	20.05	20.26	20.21
10	64QAM	25	25	20.01	20.11	20.15	20.01	20.11	20.15
10	64QAM	50	0	20.05	20.19	20.10	20.05	20.19	20.10
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	22.55	22.67	22.86	22.55	22.67	22.86
5	QPSK	1	12	22.55	22.74	22.83	22.55	22.74	22.83
5	QPSK	1	24	22.49	22.73	22.72	22.49	22.73	22.72
5	QPSK	12	0	21.55	21.70	21.91	21.55	21.70	21.91
5	QPSK	12	7	21.56	21.81	21.88	21.56	21.81	21.88
5	QPSK	12	13	21.50	21.74	21.84	21.50	21.74	21.84
5	QPSK	25	0	21.51	21.78	21.89	21.51	21.78	21.89
5	16QAM	1	0	21.93	22.02	22.14	21.93	22.02	22.14
5	16QAM	1	12	21.80	22.17	22.21	21.80	22.17	22.21
5	16QAM	1	24	21.81	22.06	22.07	21.81	22.06	22.07
5	16QAM	12	0	20.65	20.79	21.00	20.65	20.79	21.00
5	16QAM	12	7	20.65	20.91	21.03	20.65	20.91	21.03
5	16QAM	12	13	20.64	20.84	20.94	20.64	20.84	20.94
5	16QAM	25	0	20.63	20.89	20.97	20.63	20.89	20.97
5	64QAM	1	0	21.26	21.41	21.54	21.26	21.41	21.54
5	64QAM	1	12	20.93	21.25	21.24	20.93	21.25	21.24
5	64QAM	1	24	21.03	21.25	21.37	21.03	21.25	21.37



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5	64QAM	12	0	19.96	20.21	20.31	19.96	20.21	20.31
5	64QAM	12	7	20.05	20.23	20.15	20.05	20.23	20.15
5	64QAM	12	13	19.99	20.18	20.09	19.99	20.18	20.09
5	64QAM	25	0	19.97	20.23	20.12	19.97	20.23	20.12

**<Wifi on>**

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				19.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	18.81	18.97	18.95	23.01	23.13	23.36
20	QPSK	1	49	18.76	18.89	18.78	23.06	23.05	23.09
20	QPSK	1	99	18.77	18.89	18.78	23.02	23.13	23.06
20	QPSK	50	0	18.74	18.95	18.74	22.01	22.13	22.24
20	QPSK	50	24	18.79	18.90	18.81	22.03	22.20	22.08
20	QPSK	50	50	18.74	18.94	18.81	22.02	22.10	22.10
20	QPSK	100	0	18.77	18.94	18.72	22.00	22.12	22.19
20	16QAM	1	0	18.80	18.88	18.80	22.37	22.53	22.75
20	16QAM	1	49	18.80	18.96	18.80	22.15	22.40	22.33
20	16QAM	1	99	18.78	18.93	18.71	22.25	22.50	22.34
20	16QAM	50	0	18.71	18.91	18.76	21.06	21.26	21.29
20	16QAM	50	24	18.78	18.94	18.76	21.10	21.30	21.19
20	16QAM	50	50	18.76	18.96	18.81	21.05	21.24	21.19
20	16QAM	100	0	18.78	18.95	18.77	21.09	21.28	21.21
20	64QAM	1	0	18.74	18.90	18.81	21.32	21.47	21.61
20	64QAM	1	49	18.73	18.89	18.81	21.00	21.25	21.28
20	64QAM	1	99	18.77	18.93	18.81	21.12	21.33	21.38
20	64QAM	50	0	18.76	18.88	18.78	20.04	20.26	20.32
20	64QAM	50	24	18.77	18.94	18.74	20.07	20.30	20.22
20	64QAM	50	50	18.71	18.86	18.75	20.02	20.21	20.17
20	64QAM	100	0	18.80	18.87	18.72	20.06	20.29	20.19
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	18.76	18.89	18.74	22.64	22.80	22.87
15	QPSK	1	37	18.71	18.93	18.81	22.53	22.77	22.65
15	QPSK	1	74	18.72	18.92	18.76	22.58	22.67	22.62
15	QPSK	36	0	18.79	18.88	18.72	21.59	21.75	21.70
15	QPSK	36	20	18.77	18.92	18.80	21.56	21.81	21.60
15	QPSK	36	39	18.75	18.86	18.71	21.60	21.73	21.60
15	QPSK	75	0	18.75	18.93	18.75	21.65	21.80	21.70
15	16QAM	1	0	18.79	18.89	18.75	22.00	22.13	22.22
15	16QAM	1	37	18.77	18.88	18.73	21.79	22.08	22.00
15	16QAM	1	74	18.77	18.87	18.79	21.94	22.00	21.96
15	16QAM	36	0	18.75	18.91	18.78	20.67	20.82	20.79
15	16QAM	36	20	18.78	18.94	18.78	20.64	20.90	20.75
15	16QAM	36	39	18.79	18.92	18.80	20.69	20.80	20.67
15	16QAM	75	0	18.81	18.96	18.79	20.74	20.86	20.81
15	64QAM	1	0	18.80	18.96	18.76	20.88	21.08	21.15
15	64QAM	1	37	18.71	18.90	18.77	20.75	21.06	20.93
15	64QAM	1	74	18.78	18.88	18.72	20.82	20.94	20.89
15	64QAM	36	0	18.78	18.96	18.72	19.70	19.89	19.82
15	64QAM	36	20	18.73	18.86	18.80	19.65	19.93	19.76
15	64QAM	36	39	18.78	18.92	18.76	19.75	19.85	19.72
15	64QAM	75	0	18.77	18.86	18.79	19.75	19.91	19.82
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	18.73	18.94	18.77	22.58	22.75	22.76
10	QPSK	1	25	18.75	18.87	18.77	22.54	22.78	22.85
10	QPSK	1	49	18.81	18.89	18.80	22.47	22.67	22.73
10	QPSK	25	0	18.73	18.87	18.79	21.56	21.71	21.73
10	QPSK	25	12	18.75	18.89	18.79	21.55	21.82	21.78
10	QPSK	25	25	18.74	18.88	18.80	21.50	21.73	21.86
10	QPSK	50	0	18.78	18.95	18.74	21.51	21.76	21.76
10	16QAM	1	0	18.75	18.91	18.78	21.94	22.12	22.08
10	16QAM	1	25	18.74	18.88	18.78	21.85	22.08	22.24
10	16QAM	1	49	18.79	18.87	18.77	21.73	22.04	22.12
10	16QAM	25	0	18.74	18.92	18.79	20.65	20.83	20.80
10	16QAM	25	12	18.71	18.91	18.72	20.64	20.93	20.89
10	16QAM	25	25	18.81	18.88	18.72	20.60	20.85	20.95
10	16QAM	50	0	18.80	18.92	18.79	20.63	20.85	20.86
10	64QAM	1	0	18.77	18.94	18.74	21.28	21.38	21.52



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10	64QAM	1	25	18.78	18.86	18.74	20.97	21.24	21.28
10	64QAM	1	49	18.71	18.89	18.72	21.09	21.27	21.30
10	64QAM	25	0	18.79	18.89	18.75	19.96	20.16	20.22
10	64QAM	25	12	18.80	18.95	18.74	20.05	20.26	20.21
10	64QAM	25	25	18.72	18.91	18.74	20.01	20.11	20.15
10	64QAM	50	0	18.74	18.90	18.76	20.05	20.19	20.10
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	18.71	18.93	18.75	22.55	22.67	22.86
5	QPSK	1	12	18.73	18.96	18.74	22.55	22.74	22.83
5	QPSK	1	24	18.75	18.94	18.71	22.49	22.73	22.72
5	QPSK	12	0	18.80	18.87	18.81	21.55	21.70	21.91
5	QPSK	12	7	18.81	18.87	18.80	21.56	21.81	21.88
5	QPSK	12	13	18.79	18.88	18.74	21.50	21.74	21.84
5	QPSK	25	0	18.77	18.93	18.71	21.51	21.78	21.89
5	16QAM	1	0	18.75	18.96	18.74	21.93	22.02	22.14
5	16QAM	1	12	18.76	18.88	18.72	21.80	22.17	22.21
5	16QAM	1	24	18.78	18.87	18.74	21.81	22.06	22.07
5	16QAM	12	0	18.74	18.91	18.77	20.65	20.79	21.00
5	16QAM	12	7	18.81	18.95	18.79	20.65	20.91	21.03
5	16QAM	12	13	18.77	18.91	18.74	20.64	20.84	20.94
5	16QAM	25	0	18.72	18.94	18.80	20.63	20.89	20.97
5	64QAM	1	0	18.79	18.90	18.81	21.26	21.41	21.54
5	64QAM	1	12	18.75	18.91	18.75	20.93	21.25	21.24
5	64QAM	1	24	18.78	18.92	18.71	21.03	21.25	21.37
5	64QAM	12	0	18.78	18.86	18.71	19.96	20.21	20.31
5	64QAM	12	7	18.77	18.90	18.72	20.05	20.23	20.15
5	64QAM	12	13	18.76	18.87	18.75	19.99	20.18	20.09
5	64QAM	25	0	18.71	18.89	18.77	19.97	20.23	20.12

Power Selection				Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350	20850	21100	21350
Frequency (MHz)				2510	2535	2560	2510	2535	2560
20	QPSK	1	0	23.01	23.13	23.36	23.01	23.13	23.36
20	QPSK	1	49	23.06	23.05	23.09	23.06	23.05	23.09
20	QPSK	1	99	23.02	23.13	23.06	23.02	23.13	23.06
20	QPSK	50	0	22.01	22.13	22.24	22.01	22.13	22.24
20	QPSK	50	24	22.03	22.20	22.08	22.03	22.20	22.08
20	QPSK	50	50	22.02	22.10	22.10	22.02	22.10	22.10
20	QPSK	100	0	22.00	22.12	22.19	22.00	22.12	22.19
20	16QAM	1	0	22.37	22.53	22.75	22.37	22.53	22.75
20	16QAM	1	49	22.15	22.40	22.33	22.15	22.40	22.33
20	16QAM	1	99	22.25	22.50	22.34	22.25	22.50	22.34
20	16QAM	50	0	21.06	21.26	21.29	21.06	21.26	21.29
20	16QAM	50	24	21.10	21.30	21.19	21.10	21.30	21.19
20	16QAM	50	50	21.05	21.24	21.19	21.05	21.24	21.19
20	16QAM	100	0	21.09	21.28	21.21	21.09	21.28	21.21
20	64QAM	1	0	21.32	21.47	21.61	21.32	21.47	21.61
20	64QAM	1	49	21.00	21.25	21.28	21.00	21.25	21.28
20	64QAM	1	99	21.12	21.33	21.38	21.12	21.33	21.38
20	64QAM	50	0	20.04	20.26	20.32	20.04	20.26	20.32
20	64QAM	50	24	20.07	20.30	20.22	20.07	20.30	20.22
20	64QAM	50	50	20.02	20.21	20.17	20.02	20.21	20.17
20	64QAM	100	0	20.06	20.29	20.19	20.06	20.29	20.19
Channel				20825	21100	21375	20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5	2507.5	2535	2562.5
15	QPSK	1	0	22.64	22.80	22.87	22.64	22.80	22.87
15	QPSK	1	37	22.53	22.77	22.65	22.53	22.77	22.65
15	QPSK	1	74	22.58	22.67	22.62	22.58	22.67	22.62
15	QPSK	36	0	21.59	21.75	21.70	21.59	21.75	21.70
15	QPSK	36	20	21.56	21.81	21.60	21.56	21.81	21.60
15	QPSK	36	39	21.60	21.73	21.60	21.60	21.73	21.60
15	QPSK	75	0	21.65	21.80	21.70	21.65	21.80	21.70
15	16QAM	1	0	22.00	22.13	22.22	22.00	22.13	22.22
15	16QAM	1	37	21.79	22.08	22.00	21.79	22.08	22.00



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15	16QAM	1	74	21.94	22.00	21.96	21.94	22.00	21.96
15	16QAM	36	0	20.67	20.82	20.79	20.67	20.82	20.79
15	16QAM	36	20	20.64	20.90	20.75	20.64	20.90	20.75
15	16QAM	36	39	20.69	20.80	20.67	20.69	20.80	20.67
15	16QAM	75	0	20.74	20.86	20.81	20.74	20.86	20.81
15	64QAM	1	0	20.88	21.08	21.15	20.88	21.08	21.15
15	64QAM	1	37	20.75	21.06	20.93	20.75	21.06	20.93
15	64QAM	1	74	20.82	20.94	20.89	20.82	20.94	20.89
15	64QAM	36	0	19.70	19.89	19.82	19.70	19.89	19.82
15	64QAM	36	20	19.65	19.93	19.76	19.65	19.93	19.76
15	64QAM	36	39	19.75	19.85	19.72	19.75	19.85	19.72
15	64QAM	75	0	19.75	19.91	19.82	19.75	19.91	19.82
Channel				20800	21100	21400	20800	21100	21400
Frequency (MHz)				2505	2535	2565	2505	2535	2565
10	QPSK	1	0	22.58	22.75	22.76	22.58	22.75	22.76
10	QPSK	1	25	22.54	22.78	22.85	22.54	22.78	22.85
10	QPSK	1	49	22.47	22.67	22.73	22.47	22.67	22.73
10	QPSK	25	0	21.56	21.71	21.73	21.56	21.71	21.73
10	QPSK	25	12	21.55	21.82	21.78	21.55	21.82	21.78
10	QPSK	25	25	21.50	21.73	21.86	21.50	21.73	21.86
10	QPSK	50	0	21.51	21.76	21.76	21.51	21.76	21.76
10	16QAM	1	0	21.94	22.12	22.08	21.94	22.12	22.08
10	16QAM	1	25	21.85	22.08	22.24	21.85	22.08	22.24
10	16QAM	1	49	21.73	22.04	22.12	21.73	22.04	22.12
10	16QAM	25	0	20.65	20.83	20.80	20.65	20.83	20.80
10	16QAM	25	12	20.64	20.93	20.89	20.64	20.93	20.89
10	16QAM	25	25	20.60	20.85	20.95	20.60	20.85	20.95
10	16QAM	50	0	20.63	20.85	20.86	20.63	20.85	20.86
10	64QAM	1	0	21.28	21.38	21.52	21.28	21.38	21.52
10	64QAM	1	25	20.97	21.24	21.28	20.97	21.24	21.28
10	64QAM	1	49	21.09	21.27	21.30	21.09	21.27	21.30
10	64QAM	25	0	19.96	20.16	20.22	19.96	20.16	20.22
10	64QAM	25	12	20.05	20.26	20.21	20.05	20.26	20.21
10	64QAM	25	25	20.01	20.11	20.15	20.01	20.11	20.15
10	64QAM	50	0	20.05	20.19	20.10	20.05	20.19	20.10
Channel				20775	21100	21425	20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5	2502.5	2535	2567.5
5	QPSK	1	0	22.55	22.67	22.86	22.55	22.67	22.86
5	QPSK	1	12	22.55	22.74	22.83	22.55	22.74	22.83
5	QPSK	1	24	22.49	22.73	22.72	22.49	22.73	22.72
5	QPSK	12	0	21.55	21.70	21.91	21.55	21.70	21.91
5	QPSK	12	7	21.56	21.81	21.88	21.56	21.81	21.88
5	QPSK	12	13	21.50	21.74	21.84	21.50	21.74	21.84
5	QPSK	25	0	21.51	21.78	21.89	21.51	21.78	21.89
5	16QAM	1	0	21.93	22.02	22.14	21.93	22.02	22.14
5	16QAM	1	12	21.80	22.17	22.21	21.80	22.17	22.21
5	16QAM	1	24	21.81	22.06	22.07	21.81	22.06	22.07
5	16QAM	12	0	20.65	20.79	21.00	20.65	20.79	21.00
5	16QAM	12	7	20.65	20.91	21.03	20.65	20.91	21.03
5	16QAM	12	13	20.64	20.84	20.94	20.64	20.84	20.94
5	16QAM	25	0	20.63	20.89	20.97	20.63	20.89	20.97
5	64QAM	1	0	21.26	21.41	21.54	21.26	21.41	21.54
5	64QAM	1	12	20.93	21.25	21.24	20.93	21.25	21.24
5	64QAM	1	24	21.03	21.25	21.37	21.03	21.25	21.37
5	64QAM	12	0	19.96	20.21	20.31	19.96	20.21	20.31
5	64QAM	12	7	20.05	20.23	20.15	20.05	20.23	20.15
5	64QAM	12	13	19.99	20.18	20.09	19.99	20.18	20.09
5	64QAM	25	0	19.97	20.23	20.12	19.97	20.23	20.12



<LTE Band 12>

<WiFi off>

Power Selection				Head / Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130	23060	23095	23130
Frequency (MHz)				704	707.5	711	704	707.5	711
10	QPSK	1	0	23.51	23.64	23.81	23.51	23.64	23.81
10	QPSK	1	25	23.52	23.53	23.69	23.52	23.53	23.69
10	QPSK	1	49	23.57	23.58	23.77	23.57	23.58	23.77
10	QPSK	25	0	22.55	22.63	22.64	22.55	22.63	22.64
10	QPSK	25	12	22.50	22.54	22.63	22.50	22.54	22.63
10	QPSK	25	25	22.58	22.62	22.61	22.58	22.62	22.61
10	QPSK	50	0	22.58	22.53	22.67	22.58	22.53	22.67
10	16QAM	1	0	22.70	22.77	22.99	22.70	22.77	22.99
10	16QAM	1	25	22.75	22.72	23.10	22.75	22.72	23.10
10	16QAM	1	49	22.81	22.93	22.97	22.81	22.93	22.97
10	16QAM	25	0	21.55	21.66	21.72	21.55	21.66	21.72
10	16QAM	25	12	21.54	21.60	21.75	21.54	21.60	21.75
10	16QAM	25	25	21.56	21.53	21.75	21.56	21.53	21.75
10	16QAM	50	0	21.59	21.55	21.75	21.59	21.55	21.75
10	64QAM	1	0	21.55	21.71	21.94	21.55	21.71	21.94
10	64QAM	1	25	21.75	21.82	21.94	21.75	21.82	21.94
10	64QAM	1	49	21.78	21.93	22.06	21.78	21.93	22.06
10	64QAM	25	0	20.50	20.62	20.71	20.50	20.62	20.71
10	64QAM	25	12	20.60	20.66	20.74	20.60	20.66	20.74
10	64QAM	25	25	20.66	20.55	20.76	20.66	20.55	20.76
10	64QAM	50	0	20.58	20.66	20.78	20.58	20.66	20.78
Channel				23035	23095	23155	23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5	701.5	707.5	713.5
5	QPSK	1	0	23.33	23.46	23.68	23.33	23.46	23.68
5	QPSK	1	12	23.33	23.48	23.66	23.33	23.48	23.66
5	QPSK	1	24	23.46	23.54	23.71	23.46	23.54	23.71
5	QPSK	12	0	22.40	22.53	22.61	22.40	22.53	22.61
5	QPSK	12	7	22.36	22.48	22.57	22.36	22.48	22.57
5	QPSK	12	13	22.47	22.44	22.60	22.47	22.44	22.60
5	QPSK	25	0	22.37	22.46	22.59	22.37	22.46	22.59
5	16QAM	1	0	22.58	22.72	23.11	22.58	22.72	23.11
5	16QAM	1	12	22.54	22.85	23.00	22.54	22.85	23.00
5	16QAM	1	24	22.70	22.86	23.04	22.70	22.86	23.04
5	16QAM	12	0	21.48	21.58	21.75	21.48	21.58	21.75
5	16QAM	12	7	21.47	21.62	21.71	21.47	21.62	21.71
5	16QAM	12	13	21.54	21.54	21.71	21.54	21.54	21.71
5	16QAM	25	0	21.46	21.62	21.68	21.46	21.62	21.68
5	64QAM	1	0	21.49	21.69	21.88	21.49	21.69	21.88
5	64QAM	1	12	21.62	21.71	21.85	21.62	21.71	21.85
5	64QAM	1	24	21.67	21.78	21.98	21.67	21.78	21.98
5	64QAM	12	0	20.59	20.56	20.81	20.59	20.56	20.81
5	64QAM	12	7	20.52	20.65	20.74	20.52	20.65	20.74
5	64QAM	12	13	20.59	20.60	20.78	20.59	20.60	20.78
5	64QAM	25	0	20.49	20.60	20.73	20.49	20.60	20.73
Channel				23025	23095	23165	23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5	700.5	707.5	714.5
3	QPSK	1	0	23.25	23.38	23.75	23.25	23.38	23.75
3	QPSK	1	8	23.33	23.44	23.70	23.33	23.44	23.70
3	QPSK	1	14	23.28	23.39	23.71	23.28	23.39	23.71
3	QPSK	8	0	22.39	22.49	22.75	22.39	22.49	22.75
3	QPSK	8	4	22.37	22.45	22.73	22.37	22.45	22.73
3	QPSK	8	7	22.32	22.41	22.71	22.32	22.41	22.71
3	QPSK	15	0	22.33	22.42	22.74	22.33	22.42	22.74
3	16QAM	1	0	22.46	22.69	23.05	22.46	22.69	23.05
3	16QAM	1	8	22.60	22.83	22.88	22.60	22.83	22.88
3	16QAM	1	14	22.54	22.77	23.02	22.54	22.77	23.02
3	16QAM	8	0	21.50	21.60	21.83	21.50	21.60	21.83
3	16QAM	8	4	21.53	21.54	21.85	21.53	21.54	21.85
3	16QAM	8	7	21.49	21.55	21.85	21.49	21.55	21.85



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3	16QAM	15	0	21.45	21.54	21.83	21.45	21.54	21.83
3	64QAM	1	0	21.41	21.68	21.93	21.41	21.68	21.93
3	64QAM	1	8	21.57	21.71	21.86	21.57	21.71	21.86
3	64QAM	1	14	21.55	21.63	21.96	21.55	21.63	21.96
3	64QAM	8	0	20.52	20.61	20.83	20.52	20.61	20.83
3	64QAM	8	4	20.50	20.48	20.90	20.50	20.48	20.90
3	64QAM	8	7	20.49	20.53	20.81	20.49	20.53	20.81
3	64QAM	15	0	20.47	20.58	20.83	20.47	20.58	20.83
Channel				23017	23095	23173	23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3	699.7	707.5	715.3
1.4	QPSK	1	0	23.22	23.44	23.66	23.22	23.44	23.66
1.4	QPSK	1	3	23.25	23.47	23.80	23.25	23.47	23.80
1.4	QPSK	1	5	23.13	23.40	23.73	23.13	23.40	23.73
1.4	QPSK	3	0	23.26	23.48	23.72	23.26	23.48	23.72
1.4	QPSK	3	1	23.24	23.49	23.79	23.24	23.49	23.79
1.4	QPSK	3	3	23.23	23.47	23.78	23.23	23.47	23.78
1.4	QPSK	6	0	22.23	22.42	22.70	22.23	22.42	22.70
1.4	16QAM	1	0	22.44	22.73	23.01	22.44	22.73	23.01
1.4	16QAM	1	3	22.61	22.89	23.14	22.61	22.89	23.14
1.4	16QAM	1	5	22.52	22.79	23.06	22.52	22.79	23.06
1.4	16QAM	3	0	22.32	22.68	22.75	22.32	22.68	22.75
1.4	16QAM	3	1	22.27	22.59	22.79	22.27	22.59	22.79
1.4	16QAM	3	3	22.29	22.48	22.79	22.29	22.48	22.79
1.4	16QAM	6	0	21.36	21.57	21.85	21.36	21.57	21.85
1.4	64QAM	1	0	21.45	21.72	21.99	21.45	21.72	21.99
1.4	64QAM	1	3	21.46	21.73	22.02	21.46	21.73	22.02
1.4	64QAM	1	5	21.36	21.66	21.96	21.36	21.66	21.96
1.4	64QAM	3	0	21.47	21.68	21.85	21.47	21.68	21.85
1.4	64QAM	3	1	21.50	21.71	21.99	21.50	21.71	21.99
1.4	64QAM	3	3	21.41	21.65	21.93	21.41	21.65	21.93
1.4	64QAM	6	0	20.39	20.51	20.80	20.39	20.51	20.80



<WiFi on>

Power Selection				Head / Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130	23060	23095	23130
Frequency (MHz)				704	707.5	711	704	707.5	711
10	QPSK	1	0	23.51	23.64	23.81	23.51	23.64	23.81
10	QPSK	1	25	23.52	23.53	23.69	23.52	23.53	23.69
10	QPSK	1	49	23.57	23.58	23.77	23.57	23.58	23.77
10	QPSK	25	0	22.55	22.63	22.64	22.55	22.63	22.64
10	QPSK	25	12	22.50	22.54	22.63	22.50	22.54	22.63
10	QPSK	25	25	22.58	22.62	22.61	22.58	22.62	22.61
10	QPSK	50	0	22.58	22.53	22.67	22.58	22.53	22.67
10	16QAM	1	0	22.70	22.77	22.99	22.70	22.77	22.99
10	16QAM	1	25	22.75	22.72	23.10	22.75	22.72	23.10
10	16QAM	1	49	22.81	22.93	22.97	22.81	22.93	22.97
10	16QAM	25	0	21.55	21.66	21.72	21.55	21.66	21.72
10	16QAM	25	12	21.54	21.60	21.75	21.54	21.60	21.75
10	16QAM	25	25	21.56	21.53	21.75	21.56	21.53	21.75
10	16QAM	50	0	21.59	21.55	21.75	21.59	21.55	21.75
10	64QAM	1	0	21.55	21.71	21.94	21.55	21.71	21.94
10	64QAM	1	25	21.75	21.82	21.94	21.75	21.82	21.94
10	64QAM	1	49	21.78	21.93	22.06	21.78	21.93	22.06
10	64QAM	25	0	20.50	20.62	20.71	20.50	20.62	20.71
10	64QAM	25	12	20.60	20.66	20.74	20.60	20.66	20.74
10	64QAM	25	25	20.66	20.55	20.76	20.66	20.55	20.76
10	64QAM	50	0	20.58	20.66	20.78	20.58	20.66	20.78
Channel				23035	23095	23155	23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5	701.5	707.5	713.5
5	QPSK	1	0	23.33	23.46	23.68	23.33	23.46	23.68
5	QPSK	1	12	23.33	23.48	23.66	23.33	23.48	23.66
5	QPSK	1	24	23.46	23.54	23.71	23.46	23.54	23.71
5	QPSK	12	0	22.40	22.53	22.61	22.40	22.53	22.61
5	QPSK	12	7	22.36	22.48	22.57	22.36	22.48	22.57
5	QPSK	12	13	22.47	22.44	22.60	22.47	22.44	22.60
5	QPSK	25	0	22.37	22.46	22.59	22.37	22.46	22.59
5	16QAM	1	0	22.58	22.72	23.11	22.58	22.72	23.11
5	16QAM	1	12	22.54	22.85	23.00	22.54	22.85	23.00
5	16QAM	1	24	22.70	22.86	23.04	22.70	22.86	23.04
5	16QAM	12	0	21.48	21.58	21.75	21.48	21.58	21.75
5	16QAM	12	7	21.47	21.62	21.71	21.47	21.62	21.71
5	16QAM	12	13	21.54	21.54	21.71	21.54	21.54	21.71
5	16QAM	25	0	21.46	21.62	21.68	21.46	21.62	21.68
5	64QAM	1	0	21.49	21.69	21.88	21.49	21.69	21.88
5	64QAM	1	12	21.62	21.71	21.85	21.62	21.71	21.85
5	64QAM	1	24	21.67	21.78	21.98	21.67	21.78	21.98
5	64QAM	12	0	20.59	20.56	20.81	20.59	20.56	20.81
5	64QAM	12	7	20.52	20.65	20.74	20.52	20.65	20.74
5	64QAM	12	13	20.59	20.60	20.78	20.59	20.60	20.78
5	64QAM	25	0	20.49	20.60	20.73	20.49	20.60	20.73
Channel				23025	23095	23165	23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5	700.5	707.5	714.5
3	QPSK	1	0	23.25	23.38	23.75	23.25	23.38	23.75
3	QPSK	1	8	23.33	23.44	23.70	23.33	23.44	23.70
3	QPSK	1	14	23.28	23.39	23.71	23.28	23.39	23.71
3	QPSK	8	0	22.39	22.49	22.75	22.39	22.49	22.75
3	QPSK	8	4	22.37	22.45	22.73	22.37	22.45	22.73
3	QPSK	8	7	22.32	22.41	22.71	22.32	22.41	22.71
3	QPSK	15	0	22.33	22.42	22.74	22.33	22.42	22.74
3	16QAM	1	0	22.46	22.69	23.05	22.46	22.69	23.05
3	16QAM	1	8	22.60	22.83	22.88	22.60	22.83	22.88
3	16QAM	1	14	22.54	22.77	23.02	22.54	22.77	23.02
3	16QAM	8	0	21.50	21.60	21.83	21.50	21.60	21.83
3	16QAM	8	4	21.53	21.54	21.85	21.53	21.54	21.85
3	16QAM	8	7	21.49	21.55	21.85	21.49	21.55	21.85
3	16QAM	15	0	21.45	21.54	21.83	21.45	21.54	21.83
3	64QAM	1	0	21.41	21.68	21.93	21.41	21.68	21.93



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3	64QAM	1	8	21.57	21.71	21.86	21.57	21.71	21.86
3	64QAM	1	14	21.55	21.63	21.96	21.55	21.63	21.96
3	64QAM	8	0	20.52	20.61	20.83	20.52	20.61	20.83
3	64QAM	8	4	20.50	20.48	20.90	20.50	20.48	20.90
3	64QAM	8	7	20.49	20.53	20.81	20.49	20.53	20.81
3	64QAM	15	0	20.47	20.58	20.83	20.47	20.58	20.83
Channel				23017	23095	23173	23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3	699.7	707.5	715.3
1.4	QPSK	1	0	23.22	23.44	23.66	23.22	23.44	23.66
1.4	QPSK	1	3	23.25	23.47	23.80	23.25	23.47	23.80
1.4	QPSK	1	5	23.13	23.40	23.73	23.13	23.40	23.73
1.4	QPSK	3	0	23.26	23.48	23.72	23.26	23.48	23.72
1.4	QPSK	3	1	23.24	23.49	23.79	23.24	23.49	23.79
1.4	QPSK	3	3	23.23	23.47	23.78	23.23	23.47	23.78
1.4	QPSK	6	0	22.23	22.42	22.70	22.23	22.42	22.70
1.4	16QAM	1	0	22.44	22.73	23.01	22.44	22.73	23.01
1.4	16QAM	1	3	22.61	22.89	23.14	22.61	22.89	23.14
1.4	16QAM	1	5	22.52	22.79	23.06	22.52	22.79	23.06
1.4	16QAM	3	0	22.32	22.68	22.75	22.32	22.68	22.75
1.4	16QAM	3	1	22.27	22.59	22.79	22.27	22.59	22.79
1.4	16QAM	3	3	22.29	22.48	22.79	22.29	22.48	22.79
1.4	16QAM	6	0	21.36	21.57	21.85	21.36	21.57	21.85
1.4	64QAM	1	0	21.45	21.72	21.99	21.45	21.72	21.99
1.4	64QAM	1	3	21.46	21.73	22.02	21.46	21.73	22.02
1.4	64QAM	1	5	21.36	21.66	21.96	21.36	21.66	21.96
1.4	64QAM	3	0	21.47	21.68	21.85	21.47	21.68	21.85
1.4	64QAM	3	1	21.50	21.71	21.99	21.50	21.71	21.99
1.4	64QAM	3	3	21.41	21.65	21.93	21.41	21.65	21.93
1.4	64QAM	6	0	20.39	20.51	20.80	20.39	20.51	20.80



<LTE Band 13>

<WiFi off>

Power Selection				Head / Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23230			23230	
Frequency (MHz)					782			782	
10	QPSK	1	0		23.60			23.60	
10	QPSK	1	25		23.41			23.41	
10	QPSK	1	49		23.47			23.47	
10	QPSK	25	0		22.52			22.52	
10	QPSK	25	12		22.44			22.44	
10	QPSK	25	25		22.41			22.41	
10	QPSK	50	0		22.49			22.49	
10	16QAM	1	0		22.98			22.98	
10	16QAM	1	25		22.72			22.72	
10	16QAM	1	49		22.85			22.85	
10	16QAM	25	0		21.64			21.64	
10	16QAM	25	12		21.61			21.61	
10	16QAM	25	25		21.47			21.47	
10	16QAM	50	0		21.59			21.59	
10	64QAM	1	0		21.79			21.79	
10	64QAM	1	25		21.70			21.70	
10	64QAM	1	49		21.80			21.80	
10	64QAM	25	0		20.67			20.67	
10	64QAM	25	12		20.56			20.56	
10	64QAM	25	25		20.46			20.46	
10	64QAM	50	0		20.54			20.54	
Channel				23205	23230	23255	23205	23230	23255
Frequency (MHz)				779.5	782	784.5	779.5	782	784.5
5	QPSK	1	0	23.57	23.50	23.52	23.57	23.50	23.52
5	QPSK	1	12	23.53	23.34	23.58	23.53	23.34	23.58
5	QPSK	1	24	23.46	23.35	23.51	23.46	23.35	23.51
5	QPSK	12	0	22.61	22.44	22.52	22.61	22.44	22.52
5	QPSK	12	7	22.53	22.46	22.51	22.53	22.46	22.51
5	QPSK	12	13	22.49	22.39	22.54	22.49	22.39	22.54
5	QPSK	25	0	22.51	22.42	22.50	22.51	22.42	22.50
5	16QAM	1	0	22.91	22.79	22.94	22.91	22.79	22.94
5	16QAM	1	12	22.94	22.61	22.86	22.94	22.61	22.86
5	16QAM	1	24	22.90	22.68	22.83	22.90	22.68	22.83
5	16QAM	12	0	21.66	21.57	21.60	21.66	21.57	21.60
5	16QAM	12	7	21.69	21.49	21.59	21.69	21.49	21.59
5	16QAM	12	13	21.58	21.46	21.65	21.58	21.46	21.65
5	16QAM	25	0	21.67	21.53	21.56	21.67	21.53	21.56
5	64QAM	1	0	21.86	21.77	21.82	21.86	21.77	21.82
5	64QAM	1	12	21.77	21.71	21.82	21.77	21.71	21.82
5	64QAM	1	24	21.67	21.53	21.77	21.67	21.53	21.77
5	64QAM	12	0	20.71	20.59	20.63	20.71	20.59	20.63
5	64QAM	12	7	20.67	20.57	20.67	20.67	20.57	20.67
5	64QAM	12	13	20.69	20.49	20.66	20.69	20.49	20.66
5	64QAM	25	0	20.65	20.56	20.59	20.65	20.56	20.59



<Wifi on>

Power Selection				Head / Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					23230			23230	
Frequency (MHz)					782			782	
10	QPSK	1	0		23.60			23.60	
10	QPSK	1	25		23.41			23.41	
10	QPSK	1	49		23.47			23.47	
10	QPSK	25	0		22.52			22.52	
10	QPSK	25	12		22.44			22.44	
10	QPSK	25	25		22.41			22.41	
10	QPSK	50	0		22.49			22.49	
10	16QAM	1	0		22.98			22.98	
10	16QAM	1	25		22.72			22.72	
10	16QAM	1	49		22.85			22.85	
10	16QAM	25	0		21.64			21.64	
10	16QAM	25	12		21.61			21.61	
10	16QAM	25	25		21.47			21.47	
10	16QAM	50	0		21.59			21.59	
10	64QAM	1	0		21.79			21.79	
10	64QAM	1	25		21.70			21.70	
10	64QAM	1	49		21.80			21.80	
10	64QAM	25	0		20.67			20.67	
10	64QAM	25	12		20.56			20.56	
10	64QAM	25	25		20.46			20.46	
10	64QAM	50	0		20.54			20.54	
Channel				23205	23230	23255	23205	23230	23255
Frequency (MHz)				779.5	782	784.5	779.5	782	784.5
5	QPSK	1	0	23.57	23.50	23.52	23.57	23.50	23.52
5	QPSK	1	12	23.53	23.34	23.58	23.53	23.34	23.58
5	QPSK	1	24	23.46	23.35	23.51	23.46	23.35	23.51
5	QPSK	12	0	22.61	22.44	22.52	22.61	22.44	22.52
5	QPSK	12	7	22.53	22.46	22.51	22.53	22.46	22.51
5	QPSK	12	13	22.49	22.39	22.54	22.49	22.39	22.54
5	QPSK	25	0	22.51	22.42	22.50	22.51	22.42	22.50
5	16QAM	1	0	22.91	22.79	22.94	22.91	22.79	22.94
5	16QAM	1	12	22.94	22.61	22.86	22.94	22.61	22.86
5	16QAM	1	24	22.90	22.68	22.83	22.90	22.68	22.83
5	16QAM	12	0	21.66	21.57	21.60	21.66	21.57	21.60
5	16QAM	12	7	21.69	21.49	21.59	21.69	21.49	21.59
5	16QAM	12	13	21.58	21.46	21.65	21.58	21.46	21.65
5	16QAM	25	0	21.67	21.53	21.56	21.67	21.53	21.56
5	64QAM	1	0	21.86	21.77	21.82	21.86	21.77	21.82
5	64QAM	1	12	21.77	21.71	21.82	21.77	21.71	21.82
5	64QAM	1	24	21.67	21.53	21.77	21.67	21.53	21.77
5	64QAM	12	0	20.71	20.59	20.63	20.71	20.59	20.63
5	64QAM	12	7	20.67	20.57	20.67	20.67	20.57	20.67
5	64QAM	12	13	20.69	20.49	20.66	20.69	20.49	20.66
5	64QAM	25	0	20.65	20.56	20.59	20.65	20.56	20.59

<LTE Band 17>

SAR for LTE B17 is covered by LTE B12 due to overlapping frequency range, the same maximum tune-up limit and the same channel bandwidth



<LTE Band 25>

<WiFi off>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				19.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	18.66	18.58	18.78	23.42	23.39	23.61
20	QPSK	1	49	18.64	18.55	18.77	23.26	23.24	23.37
20	QPSK	1	99	18.63	18.50	18.74	23.22	23.10	23.43
20	QPSK	50	0	18.63	18.56	18.74	22.46	22.35	22.59
20	QPSK	50	24	18.58	18.52	18.67	22.42	22.33	22.46
20	QPSK	50	50	18.57	18.55	18.71	22.31	22.23	22.42
20	QPSK	100	0	18.62	18.55	18.77	22.40	22.34	22.51
20	16QAM	1	0	18.61	18.51	18.74	22.88	22.69	22.92
20	16QAM	1	49	18.57	18.48	18.73	22.59	22.70	22.74
20	16QAM	1	99	18.59	18.48	18.70	22.54	22.61	22.67
20	16QAM	50	0	18.57	18.55	18.70	21.57	21.53	21.66
20	16QAM	50	24	18.48	18.44	18.60	21.47	21.45	21.62
20	16QAM	50	50	18.49	18.51	18.71	21.42	21.42	21.48
20	16QAM	100	0	18.53	18.54	18.74	21.49	21.43	21.57
20	64QAM	1	0	18.61	18.49	18.76	21.66	21.63	21.88
20	64QAM	1	49	18.64	18.45	18.76	21.53	21.48	21.63
20	64QAM	1	99	18.58	18.42	18.70	21.39	21.54	21.69
20	64QAM	50	0	18.55	18.48	18.69	20.56	20.52	20.69
20	64QAM	50	24	18.53	18.47	18.65	20.50	20.48	20.62
20	64QAM	50	50	18.54	18.46	18.68	20.43	20.41	20.55
20	64QAM	100	0	18.59	18.51	18.75	20.48	20.43	20.58
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	18.58	18.48	18.77	23.44	23.31	23.56
15	QPSK	1	37	18.64	18.54	18.70	23.31	23.21	23.33
15	QPSK	1	74	18.62	18.45	18.64	23.22	23.19	23.50
15	QPSK	36	0	18.59	18.47	18.65	22.42	22.37	22.49
15	QPSK	36	20	18.55	18.47	18.61	22.41	22.31	22.45
15	QPSK	36	39	18.56	18.49	18.64	22.34	22.28	22.46
15	QPSK	75	0	18.60	18.45	18.73	22.37	22.33	22.50
15	16QAM	1	0	18.52	18.47	18.70	22.79	22.69	22.85
15	16QAM	1	37	18.47	18.48	18.71	22.71	22.52	22.80
15	16QAM	1	74	18.50	18.44	18.67	22.47	22.62	22.75
15	16QAM	36	0	18.56	18.47	18.70	21.50	21.43	21.64
15	16QAM	36	20	18.44	18.38	18.51	21.52	21.49	21.56
15	16QAM	36	39	18.48	18.45	18.69	21.41	21.35	21.47
15	16QAM	75	0	18.49	18.53	18.74	21.47	21.41	21.55
15	64QAM	1	0	18.51	18.46	18.71	21.69	21.55	21.90
15	64QAM	1	37	18.58	18.43	18.67	21.52	21.50	21.65
15	64QAM	1	74	18.52	18.39	18.66	21.44	21.57	21.76
15	64QAM	36	0	18.53	18.47	18.66	20.57	20.46	20.66
15	64QAM	36	20	18.50	18.40	18.55	20.54	20.47	20.60
15	64QAM	36	39	18.54	18.45	18.66	20.48	20.40	20.53
15	64QAM	75	0	18.56	18.43	18.71	20.50	20.43	20.56
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	18.62	18.56	18.77	23.43	23.26	23.39
10	QPSK	1	25	18.64	18.53	18.76	23.30	23.23	23.40
10	QPSK	1	49	18.60	18.46	18.73	23.26	23.18	23.39
10	QPSK	25	0	18.63	18.48	18.74	22.39	22.33	22.38
10	QPSK	25	12	18.50	18.44	18.57	22.40	22.35	22.32
10	QPSK	25	25	18.56	18.49	18.61	22.35	22.29	22.39
10	QPSK	50	0	18.61	18.45	18.67	22.38	22.30	22.36
10	16QAM	1	0	18.57	18.51	18.64	22.71	22.46	22.64
10	16QAM	1	25	18.47	18.38	18.73	22.64	22.48	22.79
10	16QAM	1	49	18.53	18.41	18.67	22.62	22.53	22.69
10	16QAM	25	0	18.49	18.45	18.68	21.52	21.44	21.52
10	16QAM	25	12	18.47	18.34	18.55	21.51	21.44	21.46
10	16QAM	25	25	18.41	18.46	18.65	21.44	21.38	21.49



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10	16QAM	50	0	18.43	18.48	18.67	21.49	21.41	21.43
10	64QAM	1	0	18.58	18.45	18.72	21.70	21.50	21.63
10	64QAM	1	25	18.63	18.37	18.74	21.58	21.55	21.58
10	64QAM	1	49	18.54	18.35	18.62	21.45	21.50	21.62
10	64QAM	25	0	18.53	18.48	18.62	20.49	20.43	20.47
10	64QAM	25	12	18.48	18.44	18.65	20.51	20.45	20.49
10	64QAM	25	25	18.48	18.43	18.68	20.44	20.41	20.53
10	64QAM	50	0	18.57	18.46	18.69	20.54	20.39	20.48
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	18.65	18.56	18.71	23.38	23.23	23.39
5	QPSK	1	12	18.60	18.48	18.77	23.33	23.24	23.40
5	QPSK	1	24	18.56	18.46	18.68	23.30	23.24	23.42
5	QPSK	12	0	18.56	18.48	18.65	22.43	22.33	22.45
5	QPSK	12	7	18.50	18.46	18.67	22.43	22.31	22.41
5	QPSK	12	13	18.48	18.48	18.71	22.39	22.33	22.38
5	QPSK	25	0	18.57	18.47	18.72	22.38	22.28	22.42
5	16QAM	1	0	18.57	18.42	18.67	22.81	22.51	22.83
5	16QAM	1	12	18.57	18.44	18.71	22.61	22.50	22.74
5	16QAM	1	24	18.49	18.39	18.65	22.56	22.52	22.69
5	16QAM	12	0	18.57	18.51	18.69	21.51	21.40	21.53
5	16QAM	12	7	18.48	18.43	18.60	21.50	21.47	21.56
5	16QAM	12	13	18.49	18.45	18.62	21.50	21.36	21.48
5	16QAM	25	0	18.50	18.54	18.73	21.50	21.36	21.52
5	64QAM	1	0	18.51	18.47	18.75	21.67	21.49	21.66
5	64QAM	1	12	18.59	18.38	18.71	21.55	21.54	21.65
5	64QAM	1	24	18.53	18.36	18.64	21.63	21.57	21.63
5	64QAM	12	0	18.50	18.48	18.61	20.57	20.51	20.58
5	64QAM	12	7	18.50	18.37	18.61	20.53	20.48	20.58
5	64QAM	12	13	18.52	18.39	18.61	20.54	20.43	20.50
5	64QAM	25	0	18.55	18.46	18.74	20.49	20.39	20.49
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	18.61	18.49	18.71	23.33	23.14	23.34
3	QPSK	1	8	18.63	18.53	18.67	23.28	23.19	23.38
3	QPSK	1	14	18.61	18.42	18.70	23.26	23.20	23.30
3	QPSK	8	0	18.54	18.54	18.70	22.37	22.28	22.36
3	QPSK	8	4	18.48	18.44	18.59	22.37	22.31	22.40
3	QPSK	8	7	18.57	18.48	18.63	22.36	22.28	22.35
3	QPSK	15	0	18.58	18.51	18.71	22.34	22.24	22.38
3	16QAM	1	0	18.56	18.41	18.69	22.67	22.49	22.67
3	16QAM	1	8	18.47	18.44	18.65	22.61	22.45	22.67
3	16QAM	1	14	18.57	18.42	18.60	22.51	22.53	22.56
3	16QAM	8	0	18.54	18.49	18.61	21.48	21.39	21.54
3	16QAM	8	4	18.44	18.38	18.51	21.54	21.43	21.54
3	16QAM	8	7	18.43	18.47	18.69	21.47	21.38	21.47
3	16QAM	15	0	18.49	18.46	18.64	21.46	21.32	21.46
3	64QAM	1	0	18.51	18.40	18.69	21.64	21.31	21.62
3	64QAM	1	8	18.57	18.41	18.71	21.55	21.44	21.60
3	64QAM	1	14	18.54	18.34	18.61	21.59	21.47	21.62
3	64QAM	8	0	18.47	18.40	18.61	20.47	20.40	20.53
3	64QAM	8	4	18.52	18.40	18.55	20.54	20.43	20.56
3	64QAM	8	7	18.48	18.42	18.68	20.50	20.44	20.47
3	64QAM	15	0	18.54	18.47	18.75	20.43	20.33	20.49
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	18.56	18.52	18.72	23.24	23.27	23.35
1.4	QPSK	1	3	18.58	18.51	18.77	23.30	23.21	23.23
1.4	QPSK	1	5	18.54	18.49	18.68	23.24	23.15	23.08
1.4	QPSK	3	0	18.61	18.55	18.73	23.34	23.25	23.32
1.4	QPSK	3	1	18.52	18.47	18.60	23.35	23.27	23.32
1.4	QPSK	3	3	18.49	18.45	18.70	23.35	23.22	23.34
1.4	QPSK	6	0	18.62	18.53	18.67	22.39	22.18	22.28
1.4	16QAM	1	0	18.51	18.46	18.72	22.75	22.61	22.60
1.4	16QAM	1	3	18.48	18.38	18.63	22.72	22.65	22.67
1.4	16QAM	1	5	18.56	18.42	18.65	22.62	22.57	22.48
1.4	16QAM	3	0	18.48	18.52	18.67	22.46	22.35	22.28
1.4	16QAM	3	1	18.42	18.41	18.54	22.48	22.42	22.35
1.4	16QAM	3	3	18.44	18.45	18.62	22.39	22.28	22.38
1.4	16QAM	6	0	18.51	18.46	18.68	21.54	21.34	21.46



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1.4	64QAM	1	0	18.53	18.39	18.71	21.57	21.48	21.55
1.4	64QAM	1	3	18.63	18.36	18.70	21.66	21.56	21.62
1.4	64QAM	1	5	18.52	18.37	18.63	21.62	21.41	21.47
1.4	64QAM	3	0	18.45	18.44	18.61	21.61	21.51	21.49
1.4	64QAM	3	1	18.46	18.43	18.62	21.61	21.59	21.44
1.4	64QAM	3	3	18.54	18.36	18.68	21.50	21.47	21.52
1.4	64QAM	6	0	18.59	18.50	18.70	20.47	20.26	20.39

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				23.0			23.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	21.69	21.58	21.78	22.63	22.54	22.78
20	QPSK	1	49	21.60	21.53	21.59	22.52	22.52	22.54
20	QPSK	1	99	21.63	21.51	21.57	22.61	22.44	22.53
20	QPSK	50	0	21.56	21.53	21.58	22.56	22.50	22.57
20	QPSK	50	24	21.53	21.55	21.52	22.46	22.49	22.43
20	QPSK	50	50	21.54	21.51	21.50	22.45	22.41	22.41
20	QPSK	100	0	21.55	21.53	21.56	22.52	22.48	22.53
20	16QAM	1	0	21.41	21.46	21.40	22.36	22.37	22.33
20	16QAM	1	49	21.30	21.32	21.19	22.23	22.22	22.11
20	16QAM	1	99	21.40	21.51	21.31	22.35	22.41	22.26
20	16QAM	50	0	21.43	21.11	21.17	22.40	22.03	22.08
20	16QAM	50	24	21.33	21.42	21.22	22.30	22.40	22.16
20	16QAM	50	50	21.33	21.23	21.17	22.31	22.23	22.17
20	16QAM	100	0	21.33	21.41	21.21	22.25	22.39	22.16
20	64QAM	1	0	21.26	21.21	21.24	22.22	22.17	22.20
20	64QAM	1	49	21.34	21.34	21.18	22.25	22.34	22.14
20	64QAM	1	99	21.35	21.46	21.34	22.25	22.45	22.27
20	64QAM	50	0	21.34	21.34	21.27	22.32	22.25	22.18
20	64QAM	50	24	21.34	21.12	21.27	22.34	22.05	22.18
20	64QAM	50	50	21.19	21.26	21.14	22.15	22.24	22.13
20	64QAM	100	0	21.22	21.17	21.18	22.17	22.10	22.18
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	21.63	21.56	21.61	22.53	22.49	22.60
15	QPSK	1	37	21.67	21.55	21.55	22.59	22.53	22.47
15	QPSK	1	74	21.64	21.51	21.56	22.62	22.43	22.51
15	QPSK	36	0	21.61	21.52	21.59	22.55	22.47	22.51
15	QPSK	36	20	21.54	21.55	21.56	22.49	22.50	22.49
15	QPSK	36	39	21.51	21.55	21.57	22.44	22.54	22.53
15	QPSK	75	0	21.53	21.55	21.61	22.50	22.51	22.57
15	16QAM	1	0	21.32	21.46	21.39	22.29	22.37	22.38
15	16QAM	1	37	21.32	21.31	21.23	22.22	22.28	22.13
15	16QAM	1	74	21.30	21.46	21.26	22.22	22.37	22.24
15	16QAM	36	0	21.47	21.16	21.24	22.42	22.16	22.24
15	16QAM	36	20	21.30	21.40	21.23	22.22	22.33	22.15
15	16QAM	36	39	21.32	21.24	21.20	22.27	22.14	22.16
15	16QAM	75	0	21.39	21.33	21.16	22.33	22.29	22.15
15	64QAM	1	0	21.36	21.19	21.26	22.29	22.12	22.16
15	64QAM	1	37	21.42	21.40	21.17	22.41	22.37	22.17
15	64QAM	1	74	21.34	21.39	21.35	22.24	22.32	22.29
15	64QAM	36	0	21.36	21.35	21.31	22.27	22.32	22.21
15	64QAM	36	20	21.34	21.15	21.25	22.28	22.11	22.16
15	64QAM	36	39	21.24	21.27	21.12	22.14	22.17	22.03
15	64QAM	75	0	21.29	21.23	21.17	22.29	22.20	22.13
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	21.71	21.54	21.57	22.63	22.45	22.50
10	QPSK	1	25	21.67	21.58	21.53	22.62	22.48	22.53
10	QPSK	1	49	21.65	21.50	21.50	22.63	22.43	22.44
10	QPSK	25	0	21.57	21.55	21.52	22.52	22.49	22.50
10	QPSK	25	12	21.52	21.58	21.52	22.43	22.52	22.52
10	QPSK	25	25	21.51	21.54	21.56	22.42	22.47	22.53
10	QPSK	50	0	21.57	21.56	21.57	22.56	22.51	22.54
10	16QAM	1	0	21.41	21.40	21.37	22.36	22.35	22.29



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10	16QAM	1	25	21.30	21.26	21.21	22.28	22.23	22.17
10	16QAM	1	49	21.32	21.46	21.30	22.26	22.39	22.30
10	16QAM	25	0	21.47	21.21	21.15	22.41	22.16	22.06
10	16QAM	25	12	21.25	21.40	21.19	22.22	22.32	22.17
10	16QAM	25	25	21.36	21.26	21.22	22.31	22.20	22.19
10	16QAM	50	0	21.39	21.39	21.23	22.34	22.36	22.15
10	64QAM	1	0	21.35	21.22	21.20	22.34	22.18	22.20
10	64QAM	1	25	21.42	21.38	21.22	22.33	22.34	22.12
10	64QAM	1	49	21.40	21.38	21.33	22.37	22.34	22.33
10	64QAM	25	0	21.33	21.37	21.29	22.25	22.37	22.26
10	64QAM	25	12	21.36	21.12	21.24	22.35	22.08	22.21
10	64QAM	25	25	21.21	21.27	21.14	22.16	22.25	22.14
10	64QAM	50	0	21.28	21.21	21.17	22.26	22.15	22.13
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	21.67	21.55	21.60	22.60	22.54	22.60
5	QPSK	1	12	21.59	21.57	21.53	22.57	22.47	22.47
5	QPSK	1	24	21.58	21.51	21.52	22.48	22.43	22.46
5	QPSK	12	0	21.59	21.60	21.52	22.52	22.56	22.50
5	QPSK	12	7	21.54	21.51	21.51	22.44	22.45	22.44
5	QPSK	12	13	21.60	21.56	21.52	22.52	22.54	22.49
5	QPSK	25	0	21.56	21.58	21.58	22.46	22.49	22.48
5	16QAM	1	0	21.40	21.40	21.38	22.35	22.36	22.33
5	16QAM	1	12	21.26	21.30	21.20	22.16	22.24	22.15
5	16QAM	1	24	21.37	21.43	21.33	22.30	22.33	22.26
5	16QAM	12	0	21.46	21.13	21.22	22.39	22.06	22.14
5	16QAM	12	7	21.24	21.35	21.18	22.23	22.28	22.17
5	16QAM	12	13	21.27	21.21	21.23	22.22	22.16	22.17
5	16QAM	25	0	21.35	21.38	21.16	22.34	22.29	22.06
5	64QAM	1	0	21.28	21.20	21.20	22.23	22.13	22.14
5	64QAM	1	12	21.33	21.33	21.18	22.30	22.30	22.13
5	64QAM	1	24	21.42	21.41	21.36	22.35	22.31	22.30
5	64QAM	12	0	21.32	21.31	21.24	22.28	22.21	22.15
5	64QAM	12	7	21.35	21.15	21.32	22.27	22.14	22.25
5	64QAM	12	13	21.21	21.29	21.10	22.16	22.20	22.09
5	64QAM	25	0	21.23	21.18	21.20	22.16	22.15	22.15
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	21.69	21.58	21.55	22.59	22.58	22.48
3	QPSK	1	8	21.58	21.49	21.52	22.52	22.40	22.48
3	QPSK	1	14	21.66	21.50	21.56	22.59	22.41	22.53
3	QPSK	8	0	21.60	21.59	21.58	22.56	22.58	22.56
3	QPSK	8	4	21.54	21.52	21.60	22.49	22.48	22.53
3	QPSK	8	7	21.52	21.50	21.56	22.47	22.48	22.52
3	QPSK	15	0	21.62	21.60	21.57	22.54	22.58	22.52
3	16QAM	1	0	21.39	21.39	21.31	22.37	22.32	22.24
3	16QAM	1	8	21.30	21.33	21.19	22.23	22.25	22.14
3	16QAM	1	14	21.32	21.47	21.25	22.25	22.45	22.16
3	16QAM	8	0	21.43	21.20	21.25	22.39	22.20	22.24
3	16QAM	8	4	21.27	21.35	21.16	22.21	22.28	22.12
3	16QAM	8	7	21.30	21.24	21.22	22.25	22.21	22.21
3	16QAM	15	0	21.29	21.31	21.20	22.20	22.24	22.17
3	64QAM	1	0	21.29	21.22	21.25	22.28	22.21	22.16
3	64QAM	1	8	21.36	21.35	21.22	22.27	22.32	22.22
3	64QAM	1	14	21.39	21.42	21.40	22.33	22.40	22.36
3	64QAM	8	0	21.36	21.30	21.21	22.31	22.24	22.11
3	64QAM	8	4	21.39	21.07	21.24	22.34	21.97	22.23
3	64QAM	8	7	21.21	21.29	21.17	22.20	22.26	22.08
3	64QAM	15	0	21.20	21.21	21.21	22.18	22.13	22.18
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	21.67	21.51	21.58	22.58	22.49	22.48
1.4	QPSK	1	3	21.61	21.55	21.58	22.59	22.49	22.52
1.4	QPSK	1	5	21.64	21.55	21.58	22.54	22.51	22.55
1.4	QPSK	3	0	21.54	21.50	21.56	22.52	22.43	22.47
1.4	QPSK	3	1	21.53	21.51	21.54	22.43	22.44	22.47
1.4	QPSK	3	3	21.52	21.50	21.48	22.43	22.43	22.41
1.4	QPSK	6	0	21.57	21.53	21.56	22.53	22.49	22.49
1.4	16QAM	1	0	21.38	21.43	21.31	22.32	22.41	22.28
1.4	16QAM	1	3	21.27	21.29	21.22	22.19	22.22	22.22



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1.4	16QAM	1	5	21.34	21.42	21.24	22.24	22.34	22.24
1.4	16QAM	3	0	21.49	21.19	21.21	22.46	22.10	22.13
1.4	16QAM	3	1	21.28	21.44	21.19	22.22	22.43	22.16
1.4	16QAM	3	3	21.32	21.21	21.21	22.26	22.12	22.11
1.4	16QAM	6	0	21.32	21.37	21.21	22.23	22.34	22.19
1.4	64QAM	1	0	21.27	21.23	21.30	22.18	22.16	22.26
1.4	64QAM	1	3	21.41	21.35	21.24	22.33	22.34	22.14
1.4	64QAM	1	5	21.34	21.48	21.36	22.26	22.39	22.33
1.4	64QAM	3	0	21.30	21.33	21.25	22.29	22.30	22.17
1.4	64QAM	3	1	21.32	21.13	21.29	22.24	22.03	22.27
1.4	64QAM	3	3	21.24	21.30	21.17	22.14	22.25	22.07
1.4	64QAM	6	0	21.29	21.21	21.18	22.27	22.20	22.09

Power Selection				Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	23.42	23.39	23.61	23.42	23.39	23.61
20	QPSK	1	49	23.26	23.24	23.37	23.26	23.24	23.37
20	QPSK	1	99	23.22	23.10	23.43	23.22	23.10	23.43
20	QPSK	50	0	22.46	22.35	22.59	22.46	22.35	22.59
20	QPSK	50	24	22.42	22.33	22.46	22.42	22.33	22.46
20	QPSK	50	50	22.31	22.23	22.42	22.31	22.23	22.42
20	QPSK	100	0	22.40	22.34	22.51	22.40	22.34	22.51
20	16QAM	1	0	22.88	22.69	22.92	22.88	22.69	22.92
20	16QAM	1	49	22.59	22.70	22.74	22.59	22.70	22.74
20	16QAM	1	99	22.54	22.61	22.67	22.54	22.61	22.67
20	16QAM	50	0	21.57	21.53	21.66	21.57	21.53	21.66
20	16QAM	50	24	21.47	21.45	21.62	21.47	21.45	21.62
20	16QAM	50	50	21.42	21.42	21.48	21.42	21.42	21.48
20	16QAM	100	0	21.49	21.43	21.57	21.49	21.43	21.57
20	64QAM	1	0	21.66	21.63	21.88	21.66	21.63	21.88
20	64QAM	1	49	21.53	21.48	21.63	21.53	21.48	21.63
20	64QAM	1	99	21.39	21.54	21.69	21.39	21.54	21.69
20	64QAM	50	0	20.56	20.52	20.69	20.56	20.52	20.69
20	64QAM	50	24	20.50	20.48	20.62	20.50	20.48	20.62
20	64QAM	50	50	20.43	20.41	20.55	20.43	20.41	20.55
20	64QAM	100	0	20.48	20.43	20.58	20.48	20.43	20.58
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	23.44	23.31	23.56	23.44	23.31	23.56
15	QPSK	1	37	23.31	23.21	23.33	23.31	23.21	23.33
15	QPSK	1	74	23.22	23.19	23.50	23.22	23.19	23.50
15	QPSK	36	0	22.42	22.37	22.49	22.42	22.37	22.49
15	QPSK	36	20	22.41	22.31	22.45	22.41	22.31	22.45
15	QPSK	36	39	22.34	22.28	22.46	22.34	22.28	22.46
15	QPSK	75	0	22.37	22.33	22.50	22.37	22.33	22.50
15	16QAM	1	0	22.79	22.69	22.85	22.79	22.69	22.85
15	16QAM	1	37	22.71	22.52	22.80	22.71	22.52	22.80
15	16QAM	1	74	22.47	22.62	22.75	22.47	22.62	22.75
15	16QAM	36	0	21.50	21.43	21.64	21.50	21.43	21.64
15	16QAM	36	20	21.52	21.49	21.56	21.52	21.49	21.56
15	16QAM	36	39	21.41	21.35	21.47	21.41	21.35	21.47
15	16QAM	75	0	21.47	21.41	21.55	21.47	21.41	21.55
15	64QAM	1	0	21.69	21.55	21.90	21.69	21.55	21.90
15	64QAM	1	37	21.52	21.50	21.65	21.52	21.50	21.65
15	64QAM	1	74	21.44	21.57	21.76	21.44	21.57	21.76
15	64QAM	36	0	20.57	20.46	20.66	20.57	20.46	20.66
15	64QAM	36	20	20.54	20.47	20.60	20.54	20.47	20.60
15	64QAM	36	39	20.48	20.40	20.53	20.48	20.40	20.53
15	64QAM	75	0	20.50	20.43	20.56	20.50	20.43	20.56
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	23.43	23.26	23.39	23.43	23.26	23.39
10	QPSK	1	25	23.30	23.23	23.40	23.30	23.23	23.40
10	QPSK	1	49	23.26	23.18	23.39	23.26	23.18	23.39



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10	QPSK	25	0	22.39	22.33	22.38	22.39	22.33	22.38
10	QPSK	25	12	22.40	22.35	22.32	22.40	22.35	22.32
10	QPSK	25	25	22.35	22.29	22.39	22.35	22.29	22.39
10	QPSK	50	0	22.38	22.30	22.36	22.38	22.30	22.36
10	16QAM	1	0	22.71	22.46	22.64	22.71	22.46	22.64
10	16QAM	1	25	22.64	22.48	22.79	22.64	22.48	22.79
10	16QAM	1	49	22.62	22.53	22.69	22.62	22.53	22.69
10	16QAM	25	0	21.52	21.44	21.52	21.52	21.44	21.52
10	16QAM	25	12	21.51	21.44	21.46	21.51	21.44	21.46
10	16QAM	25	25	21.44	21.38	21.49	21.44	21.38	21.49
10	16QAM	50	0	21.49	21.41	21.43	21.49	21.41	21.43
10	64QAM	1	0	21.70	21.50	21.63	21.70	21.50	21.63
10	64QAM	1	25	21.58	21.55	21.58	21.58	21.55	21.58
10	64QAM	1	49	21.45	21.50	21.62	21.45	21.50	21.62
10	64QAM	25	0	20.49	20.43	20.47	20.49	20.43	20.47
10	64QAM	25	12	20.51	20.45	20.49	20.51	20.45	20.49
10	64QAM	25	25	20.44	20.41	20.53	20.44	20.41	20.53
10	64QAM	50	0	20.54	20.39	20.48	20.54	20.39	20.48
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	23.38	23.23	23.39	23.38	23.23	23.39
5	QPSK	1	12	23.33	23.24	23.40	23.33	23.24	23.40
5	QPSK	1	24	23.30	23.24	23.42	23.30	23.24	23.42
5	QPSK	12	0	22.43	22.33	22.45	22.43	22.33	22.45
5	QPSK	12	7	22.43	22.31	22.41	22.43	22.31	22.41
5	QPSK	12	13	22.39	22.33	22.38	22.39	22.33	22.38
5	QPSK	25	0	22.38	22.28	22.42	22.38	22.28	22.42
5	16QAM	1	0	22.81	22.51	22.83	22.81	22.51	22.83
5	16QAM	1	12	22.61	22.50	22.74	22.61	22.50	22.74
5	16QAM	1	24	22.56	22.52	22.69	22.56	22.52	22.69
5	16QAM	12	0	21.51	21.40	21.53	21.51	21.40	21.53
5	16QAM	12	7	21.50	21.47	21.56	21.50	21.47	21.56
5	16QAM	12	13	21.50	21.36	21.48	21.50	21.36	21.48
5	16QAM	25	0	21.50	21.36	21.52	21.50	21.36	21.52
5	64QAM	1	0	21.67	21.49	21.66	21.67	21.49	21.66
5	64QAM	1	12	21.55	21.54	21.65	21.55	21.54	21.65
5	64QAM	1	24	21.63	21.57	21.63	21.63	21.57	21.63
5	64QAM	12	0	20.57	20.51	20.58	20.57	20.51	20.58
5	64QAM	12	7	20.53	20.48	20.58	20.53	20.48	20.58
5	64QAM	12	13	20.54	20.43	20.50	20.54	20.43	20.50
5	64QAM	25	0	20.49	20.39	20.49	20.49	20.39	20.49
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	23.33	23.14	23.34	23.33	23.14	23.34
3	QPSK	1	8	23.28	23.19	23.38	23.28	23.19	23.38
3	QPSK	1	14	23.26	23.20	23.30	23.26	23.20	23.30
3	QPSK	8	0	22.37	22.28	22.36	22.37	22.28	22.36
3	QPSK	8	4	22.37	22.31	22.40	22.37	22.31	22.40
3	QPSK	8	7	22.36	22.28	22.35	22.36	22.28	22.35
3	QPSK	15	0	22.34	22.24	22.38	22.34	22.24	22.38
3	16QAM	1	0	22.67	22.49	22.67	22.67	22.49	22.67
3	16QAM	1	8	22.61	22.45	22.67	22.61	22.45	22.67
3	16QAM	1	14	22.51	22.53	22.56	22.51	22.53	22.56
3	16QAM	8	0	21.48	21.39	21.54	21.48	21.39	21.54
3	16QAM	8	4	21.54	21.43	21.54	21.54	21.43	21.54
3	16QAM	8	7	21.47	21.38	21.47	21.47	21.38	21.47
3	16QAM	15	0	21.46	21.32	21.46	21.46	21.32	21.46
3	64QAM	1	0	21.64	21.31	21.62	21.64	21.31	21.62
3	64QAM	1	8	21.55	21.44	21.60	21.55	21.44	21.60
3	64QAM	1	14	21.59	21.47	21.62	21.59	21.47	21.62
3	64QAM	8	0	20.47	20.40	20.53	20.47	20.40	20.53
3	64QAM	8	4	20.54	20.43	20.56	20.54	20.43	20.56
3	64QAM	8	7	20.50	20.44	20.47	20.50	20.44	20.47
3	64QAM	15	0	20.43	20.33	20.49	20.43	20.33	20.49
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	23.24	23.27	23.35	23.24	23.27	23.35
1.4	QPSK	1	3	23.30	23.21	23.23	23.30	23.21	23.23
1.4	QPSK	1	5	23.24	23.15	23.08	23.24	23.15	23.08
1.4	QPSK	3	0	23.34	23.25	23.32	23.34	23.25	23.32



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1.4	QPSK	3	1	23.35	23.27	23.32	23.35	23.27	23.32
1.4	QPSK	3	3	23.35	23.22	23.34	23.35	23.22	23.34
1.4	QPSK	6	0	22.39	22.18	22.28	22.39	22.18	22.28
1.4	16QAM	1	0	22.75	22.61	22.60	22.75	22.61	22.60
1.4	16QAM	1	3	22.72	22.65	22.67	22.72	22.65	22.67
1.4	16QAM	1	5	22.62	22.57	22.48	22.62	22.57	22.48
1.4	16QAM	3	0	22.46	22.35	22.28	22.46	22.35	22.28
1.4	16QAM	3	1	22.48	22.42	22.35	22.48	22.42	22.35
1.4	16QAM	3	3	22.39	22.28	22.38	22.39	22.28	22.38
1.4	16QAM	6	0	21.54	21.34	21.46	21.54	21.34	21.46
1.4	64QAM	1	0	21.57	21.48	21.55	21.57	21.48	21.55
1.4	64QAM	1	3	21.66	21.56	21.62	21.66	21.56	21.62
1.4	64QAM	1	5	21.62	21.41	21.47	21.62	21.41	21.47
1.4	64QAM	3	0	21.61	21.51	21.49	21.61	21.51	21.49
1.4	64QAM	3	1	21.61	21.59	21.44	21.61	21.59	21.44
1.4	64QAM	3	3	21.50	21.47	21.52	21.50	21.47	21.52
1.4	64QAM	6	0	20.47	20.26	20.39	20.47	20.26	20.39

<Wifi on>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				19.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	18.66	18.58	18.78	23.42	23.39	23.61
20	QPSK	1	49	18.64	18.55	18.77	23.26	23.24	23.37
20	QPSK	1	99	18.63	18.50	18.74	23.22	23.10	23.43
20	QPSK	50	0	18.63	18.56	18.74	22.46	22.35	22.59
20	QPSK	50	24	18.58	18.52	18.67	22.42	22.33	22.46
20	QPSK	50	50	18.57	18.55	18.71	22.31	22.23	22.42
20	QPSK	100	0	18.62	18.55	18.77	22.40	22.34	22.51
20	16QAM	1	0	18.61	18.51	18.74	22.88	22.69	22.92
20	16QAM	1	49	18.57	18.48	18.73	22.59	22.70	22.74
20	16QAM	1	99	18.59	18.48	18.70	22.54	22.61	22.67
20	16QAM	50	0	18.57	18.55	18.70	21.57	21.53	21.66
20	16QAM	50	24	18.48	18.44	18.60	21.47	21.45	21.62
20	16QAM	50	50	18.49	18.51	18.71	21.42	21.42	21.48
20	16QAM	100	0	18.53	18.54	18.74	21.49	21.43	21.57
20	64QAM	1	0	18.61	18.49	18.76	21.66	21.63	21.88
20	64QAM	1	49	18.64	18.45	18.76	21.53	21.48	21.63
20	64QAM	1	99	18.58	18.42	18.70	21.39	21.54	21.69
20	64QAM	50	0	18.55	18.48	18.69	20.56	20.52	20.69
20	64QAM	50	24	18.53	18.47	18.65	20.50	20.48	20.62
20	64QAM	50	50	18.54	18.46	18.68	20.43	20.41	20.55
20	64QAM	100	0	18.59	18.51	18.75	20.48	20.43	20.58
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	18.58	18.48	18.77	23.44	23.31	23.56
15	QPSK	1	37	18.64	18.54	18.70	23.31	23.21	23.33
15	QPSK	1	74	18.62	18.45	18.64	23.22	23.19	23.50
15	QPSK	36	0	18.59	18.47	18.65	22.42	22.37	22.49
15	QPSK	36	20	18.55	18.47	18.61	22.41	22.31	22.45
15	QPSK	36	39	18.56	18.49	18.64	22.34	22.28	22.46
15	QPSK	75	0	18.60	18.45	18.73	22.37	22.33	22.50
15	16QAM	1	0	18.52	18.47	18.70	22.79	22.69	22.85
15	16QAM	1	37	18.47	18.48	18.71	22.71	22.52	22.80
15	16QAM	1	74	18.50	18.44	18.67	22.47	22.62	22.75
15	16QAM	36	0	18.56	18.47	18.70	21.50	21.43	21.64
15	16QAM	36	20	18.44	18.38	18.51	21.52	21.49	21.56
15	16QAM	36	39	18.48	18.45	18.69	21.41	21.35	21.47
15	16QAM	75	0	18.49	18.53	18.74	21.47	21.41	21.55
15	64QAM	1	0	18.51	18.46	18.71	21.69	21.55	21.90
15	64QAM	1	37	18.58	18.43	18.67	21.52	21.50	21.65
15	64QAM	1	74	18.52	18.39	18.66	21.44	21.57	21.76
15	64QAM	36	0	18.53	18.47	18.66	20.57	20.46	20.66



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15	64QAM	36	20	18.50	18.40	18.55	20.54	20.47	20.60
15	64QAM	36	39	18.54	18.45	18.66	20.48	20.40	20.53
15	64QAM	75	0	18.56	18.43	18.71	20.50	20.43	20.56
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	18.62	18.56	18.77	23.43	23.26	23.39
10	QPSK	1	25	18.64	18.53	18.76	23.30	23.23	23.40
10	QPSK	1	49	18.60	18.46	18.73	23.26	23.18	23.39
10	QPSK	25	0	18.63	18.48	18.74	22.39	22.33	22.38
10	QPSK	25	12	18.50	18.44	18.57	22.40	22.35	22.32
10	QPSK	25	25	18.56	18.49	18.61	22.35	22.29	22.39
10	QPSK	50	0	18.61	18.45	18.67	22.38	22.30	22.36
10	16QAM	1	0	18.57	18.51	18.64	22.71	22.46	22.64
10	16QAM	1	25	18.47	18.38	18.73	22.64	22.48	22.79
10	16QAM	1	49	18.53	18.41	18.67	22.62	22.53	22.69
10	16QAM	25	0	18.49	18.45	18.68	21.52	21.44	21.52
10	16QAM	25	12	18.47	18.34	18.55	21.51	21.44	21.46
10	16QAM	25	25	18.41	18.46	18.65	21.44	21.38	21.49
10	16QAM	50	0	18.43	18.48	18.67	21.49	21.41	21.43
10	64QAM	1	0	18.58	18.45	18.72	21.70	21.50	21.63
10	64QAM	1	25	18.63	18.37	18.74	21.58	21.55	21.58
10	64QAM	1	49	18.54	18.35	18.62	21.45	21.50	21.62
10	64QAM	25	0	18.53	18.48	18.62	20.49	20.43	20.47
10	64QAM	25	12	18.48	18.44	18.65	20.51	20.45	20.49
10	64QAM	25	25	18.48	18.43	18.68	20.44	20.41	20.53
10	64QAM	50	0	18.57	18.46	18.69	20.54	20.39	20.48
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	18.65	18.56	18.71	23.38	23.23	23.39
5	QPSK	1	12	18.60	18.48	18.77	23.33	23.24	23.40
5	QPSK	1	24	18.56	18.46	18.68	23.30	23.24	23.42
5	QPSK	12	0	18.56	18.48	18.65	22.43	22.33	22.45
5	QPSK	12	7	18.50	18.46	18.67	22.43	22.31	22.41
5	QPSK	12	13	18.48	18.48	18.71	22.39	22.33	22.38
5	QPSK	25	0	18.57	18.47	18.72	22.38	22.28	22.42
5	16QAM	1	0	18.57	18.42	18.67	22.81	22.51	22.83
5	16QAM	1	12	18.57	18.44	18.71	22.61	22.50	22.74
5	16QAM	1	24	18.49	18.39	18.65	22.56	22.52	22.69
5	16QAM	12	0	18.57	18.51	18.69	21.51	21.40	21.53
5	16QAM	12	7	18.48	18.43	18.60	21.50	21.47	21.56
5	16QAM	12	13	18.49	18.45	18.62	21.50	21.36	21.48
5	16QAM	25	0	18.50	18.54	18.73	21.50	21.36	21.52
5	64QAM	1	0	18.51	18.47	18.75	21.67	21.49	21.66
5	64QAM	1	12	18.59	18.38	18.71	21.55	21.54	21.65
5	64QAM	1	24	18.53	18.36	18.64	21.63	21.57	21.63
5	64QAM	12	0	18.50	18.48	18.61	20.57	20.51	20.58
5	64QAM	12	7	18.50	18.37	18.61	20.53	20.48	20.58
5	64QAM	12	13	18.52	18.39	18.61	20.54	20.43	20.50
5	64QAM	25	0	18.55	18.46	18.74	20.49	20.39	20.49
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	18.61	18.49	18.71	23.33	23.14	23.34
3	QPSK	1	8	18.63	18.53	18.67	23.28	23.19	23.38
3	QPSK	1	14	18.61	18.42	18.70	23.26	23.20	23.30
3	QPSK	8	0	18.54	18.54	18.70	22.37	22.28	22.36
3	QPSK	8	4	18.48	18.44	18.59	22.37	22.31	22.40
3	QPSK	8	7	18.57	18.48	18.63	22.36	22.28	22.35
3	QPSK	15	0	18.58	18.51	18.71	22.34	22.24	22.38
3	16QAM	1	0	18.56	18.41	18.69	22.67	22.49	22.67
3	16QAM	1	8	18.47	18.44	18.65	22.61	22.45	22.67
3	16QAM	1	14	18.57	18.42	18.60	22.51	22.53	22.56
3	16QAM	8	0	18.54	18.49	18.61	21.48	21.39	21.54
3	16QAM	8	4	18.44	18.38	18.51	21.54	21.43	21.54
3	16QAM	8	7	18.43	18.47	18.69	21.47	21.38	21.47
3	16QAM	15	0	18.49	18.46	18.64	21.46	21.32	21.46
3	64QAM	1	0	18.51	18.40	18.69	21.64	21.31	21.62
3	64QAM	1	8	18.57	18.41	18.71	21.55	21.44	21.60
3	64QAM	1	14	18.54	18.34	18.61	21.59	21.47	21.62
3	64QAM	8	0	18.47	18.40	18.61	20.47	20.40	20.53
3	64QAM	8	4	18.52	18.40	18.55	20.54	20.43	20.56



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3	64QAM	8	7	18.48	18.42	18.68	20.50	20.44	20.47
3	64QAM	15	0	18.54	18.47	18.75	20.43	20.33	20.49
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	18.56	18.52	18.72	23.24	23.27	23.35
1.4	QPSK	1	3	18.58	18.51	18.77	23.30	23.21	23.23
1.4	QPSK	1	5	18.54	18.49	18.68	23.24	23.15	23.08
1.4	QPSK	3	0	18.61	18.55	18.73	23.34	23.25	23.32
1.4	QPSK	3	1	18.52	18.47	18.60	23.35	23.27	23.32
1.4	QPSK	3	3	18.49	18.45	18.70	23.35	23.22	23.34
1.4	QPSK	6	0	18.62	18.53	18.67	22.39	22.18	22.28
1.4	16QAM	1	0	18.51	18.46	18.72	22.75	22.61	22.60
1.4	16QAM	1	3	18.48	18.38	18.63	22.72	22.65	22.67
1.4	16QAM	1	5	18.56	18.42	18.65	22.62	22.57	22.48
1.4	16QAM	3	0	18.48	18.52	18.67	22.46	22.35	22.28
1.4	16QAM	3	1	18.42	18.41	18.54	22.48	22.42	22.35
1.4	16QAM	3	3	18.44	18.45	18.62	22.39	22.28	22.38
1.4	16QAM	6	0	18.51	18.46	18.68	21.54	21.34	21.46
1.4	64QAM	1	0	18.53	18.39	18.71	21.57	21.48	21.55
1.4	64QAM	1	3	18.63	18.36	18.70	21.66	21.56	21.62
1.4	64QAM	1	5	18.52	18.37	18.63	21.62	21.41	21.47
1.4	64QAM	3	0	18.45	18.44	18.61	21.61	21.51	21.49
1.4	64QAM	3	1	18.46	18.43	18.62	21.61	21.59	21.44
1.4	64QAM	3	3	18.54	18.36	18.68	21.50	21.47	21.52
1.4	64QAM	6	0	18.59	18.50	18.70	20.47	20.26	20.39

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				22.5			23.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	21.69	21.58	21.78	22.63	22.54	22.78
20	QPSK	1	49	21.60	21.53	21.59	22.52	22.52	22.54
20	QPSK	1	99	21.63	21.51	21.57	22.61	22.44	22.53
20	QPSK	50	0	21.56	21.53	21.58	22.56	22.50	22.57
20	QPSK	50	24	21.53	21.55	21.52	22.46	22.49	22.43
20	QPSK	50	50	21.54	21.51	21.50	22.45	22.41	22.41
20	QPSK	100	0	21.55	21.53	21.56	22.52	22.48	22.53
20	16QAM	1	0	21.41	21.46	21.40	22.36	22.37	22.33
20	16QAM	1	49	21.30	21.32	21.19	22.23	22.22	22.11
20	16QAM	1	99	21.40	21.51	21.31	22.35	22.41	22.26
20	16QAM	50	0	21.43	21.11	21.17	22.40	22.03	22.08
20	16QAM	50	24	21.33	21.42	21.22	22.30	22.40	22.16
20	16QAM	50	50	21.33	21.23	21.17	22.31	22.23	22.17
20	16QAM	100	0	21.33	21.41	21.21	22.25	22.39	22.16
20	64QAM	1	0	21.26	21.21	21.24	22.22	22.17	22.20
20	64QAM	1	49	21.34	21.34	21.18	22.25	22.34	22.14
20	64QAM	1	99	21.35	21.46	21.34	22.25	22.45	22.27
20	64QAM	50	0	21.34	21.34	21.27	22.32	22.25	22.18
20	64QAM	50	24	21.34	21.12	21.27	22.34	22.05	22.18
20	64QAM	50	50	21.19	21.26	21.14	22.15	22.24	22.13
20	64QAM	100	0	21.22	21.17	21.18	22.17	22.10	22.18
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	21.63	21.56	21.61	22.53	22.49	22.60
15	QPSK	1	37	21.67	21.55	21.55	22.59	22.53	22.47
15	QPSK	1	74	21.64	21.51	21.56	22.62	22.43	22.51
15	QPSK	36	0	21.61	21.52	21.59	22.55	22.47	22.51
15	QPSK	36	20	21.54	21.55	21.56	22.49	22.50	22.49
15	QPSK	36	39	21.51	21.55	21.57	22.44	22.54	22.53
15	QPSK	75	0	21.53	21.55	21.61	22.50	22.51	22.57
15	16QAM	1	0	21.32	21.46	21.39	22.29	22.37	22.38
15	16QAM	1	37	21.32	21.31	21.23	22.22	22.28	22.13
15	16QAM	1	74	21.30	21.46	21.26	22.22	22.37	22.24
15	16QAM	36	0	21.47	21.16	21.24	22.42	22.16	22.24
15	16QAM	36	20	21.30	21.40	21.23	22.22	22.33	22.15
15	16QAM	36	39	21.32	21.24	21.20	22.27	22.14	22.16



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15	16QAM	75	0	21.39	21.33	21.16	22.33	22.29	22.15
15	64QAM	1	0	21.36	21.19	21.26	22.29	22.12	22.16
15	64QAM	1	37	21.42	21.40	21.17	22.41	22.37	22.17
15	64QAM	1	74	21.34	21.39	21.35	22.24	22.32	22.29
15	64QAM	36	0	21.36	21.35	21.31	22.27	22.32	22.21
15	64QAM	36	20	21.34	21.15	21.25	22.28	22.11	22.16
15	64QAM	36	39	21.24	21.27	21.12	22.14	22.17	22.03
15	64QAM	75	0	21.29	21.23	21.17	22.29	22.20	22.13
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	21.71	21.54	21.57	22.63	22.45	22.50
10	QPSK	1	25	21.67	21.58	21.53	22.62	22.48	22.53
10	QPSK	1	49	21.65	21.50	21.50	22.63	22.43	22.44
10	QPSK	25	0	21.57	21.55	21.52	22.52	22.49	22.50
10	QPSK	25	12	21.52	21.58	21.52	22.43	22.52	22.52
10	QPSK	25	25	21.51	21.54	21.56	22.42	22.47	22.53
10	QPSK	50	0	21.57	21.56	21.57	22.56	22.51	22.54
10	16QAM	1	0	21.41	21.40	21.37	22.36	22.35	22.29
10	16QAM	1	25	21.30	21.26	21.21	22.28	22.23	22.17
10	16QAM	1	49	21.32	21.46	21.30	22.26	22.39	22.30
10	16QAM	25	0	21.47	21.21	21.15	22.41	22.16	22.06
10	16QAM	25	12	21.25	21.40	21.19	22.22	22.32	22.17
10	16QAM	25	25	21.36	21.26	21.22	22.31	22.20	22.19
10	16QAM	50	0	21.39	21.39	21.23	22.34	22.36	22.15
10	64QAM	1	0	21.35	21.22	21.20	22.34	22.18	22.20
10	64QAM	1	25	21.42	21.38	21.22	22.33	22.34	22.12
10	64QAM	1	49	21.40	21.38	21.33	22.37	22.34	22.33
10	64QAM	25	0	21.33	21.37	21.29	22.25	22.37	22.26
10	64QAM	25	12	21.36	21.12	21.24	22.35	22.08	22.21
10	64QAM	25	25	21.21	21.27	21.14	22.16	22.25	22.14
10	64QAM	50	0	21.28	21.21	21.17	22.26	22.15	22.13
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	21.67	21.55	21.60	22.60	22.54	22.60
5	QPSK	1	12	21.59	21.57	21.53	22.57	22.47	22.47
5	QPSK	1	24	21.58	21.51	21.52	22.48	22.43	22.46
5	QPSK	12	0	21.59	21.60	21.52	22.52	22.56	22.50
5	QPSK	12	7	21.54	21.51	21.51	22.44	22.45	22.44
5	QPSK	12	13	21.60	21.56	21.52	22.52	22.54	22.49
5	QPSK	25	0	21.56	21.58	21.58	22.46	22.49	22.48
5	16QAM	1	0	21.40	21.40	21.38	22.35	22.36	22.33
5	16QAM	1	12	21.26	21.30	21.20	22.16	22.24	22.15
5	16QAM	1	24	21.37	21.43	21.33	22.30	22.33	22.26
5	16QAM	12	0	21.46	21.13	21.22	22.39	22.06	22.14
5	16QAM	12	7	21.24	21.35	21.18	22.23	22.28	22.17
5	16QAM	12	13	21.27	21.21	21.23	22.22	22.16	22.17
5	16QAM	25	0	21.35	21.38	21.16	22.34	22.29	22.06
5	64QAM	1	0	21.28	21.20	21.20	22.23	22.13	22.14
5	64QAM	1	12	21.33	21.33	21.18	22.30	22.30	22.13
5	64QAM	1	24	21.42	21.41	21.36	22.35	22.31	22.30
5	64QAM	12	0	21.32	21.31	21.24	22.28	22.21	22.15
5	64QAM	12	7	21.35	21.15	21.32	22.27	22.14	22.25
5	64QAM	12	13	21.21	21.29	21.10	22.16	22.20	22.09
5	64QAM	25	0	21.23	21.18	21.20	22.16	22.15	22.15
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	21.69	21.58	21.55	22.59	22.58	22.48
3	QPSK	1	8	21.58	21.49	21.52	22.52	22.40	22.48
3	QPSK	1	14	21.66	21.50	21.56	22.59	22.41	22.53
3	QPSK	8	0	21.60	21.59	21.58	22.56	22.58	22.56
3	QPSK	8	4	21.54	21.52	21.60	22.49	22.48	22.53
3	QPSK	8	7	21.52	21.50	21.56	22.47	22.48	22.52
3	QPSK	15	0	21.62	21.60	21.57	22.54	22.58	22.52
3	16QAM	1	0	21.39	21.39	21.31	22.37	22.32	22.24
3	16QAM	1	8	21.30	21.33	21.19	22.23	22.25	22.14
3	16QAM	1	14	21.32	21.47	21.25	22.25	22.45	22.16
3	16QAM	8	0	21.43	21.20	21.25	22.39	22.20	22.24
3	16QAM	8	4	21.27	21.35	21.16	22.21	22.28	22.12
3	16QAM	8	7	21.30	21.24	21.22	22.25	22.21	22.21
3	16QAM	15	0	21.29	21.31	21.20	22.20	22.24	22.17



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3	64QAM	1	0	21.29	21.22	21.25	22.28	22.21	22.16
3	64QAM	1	8	21.36	21.35	21.22	22.27	22.32	22.22
3	64QAM	1	14	21.39	21.42	21.40	22.33	22.40	22.36
3	64QAM	8	0	21.36	21.30	21.21	22.31	22.24	22.11
3	64QAM	8	4	21.39	21.07	21.24	22.34	21.97	22.23
3	64QAM	8	7	21.21	21.29	21.17	22.20	22.26	22.08
3	64QAM	15	0	21.20	21.21	21.21	22.18	22.13	22.18
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	21.67	21.51	21.58	22.58	22.49	22.48
1.4	QPSK	1	3	21.61	21.55	21.58	22.59	22.49	22.52
1.4	QPSK	1	5	21.64	21.55	21.58	22.54	22.51	22.55
1.4	QPSK	3	0	21.54	21.50	21.56	22.52	22.43	22.47
1.4	QPSK	3	1	21.53	21.51	21.54	22.43	22.44	22.47
1.4	QPSK	3	3	21.52	21.50	21.48	22.43	22.43	22.41
1.4	QPSK	6	0	21.57	21.53	21.56	22.53	22.49	22.49
1.4	16QAM	1	0	21.38	21.43	21.31	22.32	22.41	22.28
1.4	16QAM	1	3	21.27	21.29	21.22	22.19	22.22	22.22
1.4	16QAM	1	5	21.34	21.42	21.24	22.24	22.34	22.24
1.4	16QAM	3	0	21.49	21.19	21.21	22.46	22.10	22.13
1.4	16QAM	3	1	21.28	21.44	21.19	22.22	22.43	22.16
1.4	16QAM	3	3	21.32	21.21	21.21	22.26	22.12	22.11
1.4	16QAM	6	0	21.32	21.37	21.21	22.23	22.34	22.19
1.4	64QAM	1	0	21.27	21.23	21.30	22.18	22.16	22.26
1.4	64QAM	1	3	21.41	21.35	21.24	22.33	22.34	22.14
1.4	64QAM	1	5	21.34	21.48	21.36	22.26	22.39	22.33
1.4	64QAM	3	0	21.30	21.33	21.25	22.29	22.30	22.17
1.4	64QAM	3	1	21.32	21.13	21.29	22.24	22.03	22.27
1.4	64QAM	3	3	21.24	21.30	21.17	22.14	22.25	22.07
1.4	64QAM	6	0	21.29	21.21	21.18	22.27	22.20	22.09

Power Selection				Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26340	26590	26140	26340	26590
Frequency (MHz)				1860	1880	1905	1860	1880	1905
20	QPSK	1	0	23.42	23.39	23.61	23.42	23.39	23.61
20	QPSK	1	49	23.26	23.24	23.37	23.26	23.24	23.37
20	QPSK	1	99	23.22	23.10	23.43	23.22	23.10	23.43
20	QPSK	50	0	22.46	22.35	22.59	22.46	22.35	22.59
20	QPSK	50	24	22.42	22.33	22.46	22.42	22.33	22.46
20	QPSK	50	50	22.31	22.23	22.42	22.31	22.23	22.42
20	QPSK	100	0	22.40	22.34	22.51	22.40	22.34	22.51
20	16QAM	1	0	22.88	22.69	22.92	22.88	22.69	22.92
20	16QAM	1	49	22.59	22.70	22.74	22.59	22.70	22.74
20	16QAM	1	99	22.54	22.61	22.67	22.54	22.61	22.67
20	16QAM	50	0	21.57	21.53	21.66	21.57	21.53	21.66
20	16QAM	50	24	21.47	21.45	21.62	21.47	21.45	21.62
20	16QAM	50	50	21.42	21.42	21.48	21.42	21.42	21.48
20	16QAM	100	0	21.49	21.43	21.57	21.49	21.43	21.57
20	64QAM	1	0	21.66	21.63	21.88	21.66	21.63	21.88
20	64QAM	1	49	21.53	21.48	21.63	21.53	21.48	21.63
20	64QAM	1	99	21.39	21.54	21.69	21.39	21.54	21.69
20	64QAM	50	0	20.56	20.52	20.69	20.56	20.52	20.69
20	64QAM	50	24	20.50	20.48	20.62	20.50	20.48	20.62
20	64QAM	50	50	20.43	20.41	20.55	20.43	20.41	20.55
20	64QAM	100	0	20.48	20.43	20.58	20.48	20.43	20.58
Channel				26115	26340	26615	26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5	1857.5	1880	1907.5
15	QPSK	1	0	23.44	23.31	23.56	23.44	23.31	23.56
15	QPSK	1	37	23.31	23.21	23.33	23.31	23.21	23.33
15	QPSK	1	74	23.22	23.19	23.50	23.22	23.19	23.50
15	QPSK	36	0	22.42	22.37	22.49	22.42	22.37	22.49
15	QPSK	36	20	22.41	22.31	22.45	22.41	22.31	22.45
15	QPSK	36	39	22.34	22.28	22.46	22.34	22.28	22.46
15	QPSK	75	0	22.37	22.33	22.50	22.37	22.33	22.50
15	16QAM	1	0	22.79	22.69	22.85	22.79	22.69	22.85



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15	16QAM	1	37	22.71	22.52	22.80	22.71	22.52	22.80
15	16QAM	1	74	22.47	22.62	22.75	22.47	22.62	22.75
15	16QAM	36	0	21.50	21.43	21.64	21.50	21.43	21.64
15	16QAM	36	20	21.52	21.49	21.56	21.52	21.49	21.56
15	16QAM	36	39	21.41	21.35	21.47	21.41	21.35	21.47
15	16QAM	75	0	21.47	21.41	21.55	21.47	21.41	21.55
15	64QAM	1	0	21.69	21.55	21.90	21.69	21.55	21.90
15	64QAM	1	37	21.52	21.50	21.65	21.52	21.50	21.65
15	64QAM	1	74	21.44	21.57	21.76	21.44	21.57	21.76
15	64QAM	36	0	20.57	20.46	20.66	20.57	20.46	20.66
15	64QAM	36	20	20.54	20.47	20.60	20.54	20.47	20.60
15	64QAM	36	39	20.48	20.40	20.53	20.48	20.40	20.53
15	64QAM	75	0	20.50	20.43	20.56	20.50	20.43	20.56
Channel				26090	26340	26640	26090	26340	26640
Frequency (MHz)				1855	1880	1910	1855	1880	1910
10	QPSK	1	0	23.43	23.26	23.39	23.43	23.26	23.39
10	QPSK	1	25	23.30	23.23	23.40	23.30	23.23	23.40
10	QPSK	1	49	23.26	23.18	23.39	23.26	23.18	23.39
10	QPSK	25	0	22.39	22.33	22.38	22.39	22.33	22.38
10	QPSK	25	12	22.40	22.35	22.32	22.40	22.35	22.32
10	QPSK	25	25	22.35	22.29	22.39	22.35	22.29	22.39
10	QPSK	50	0	22.38	22.30	22.36	22.38	22.30	22.36
10	16QAM	1	0	22.71	22.46	22.64	22.71	22.46	22.64
10	16QAM	1	25	22.64	22.48	22.79	22.64	22.48	22.79
10	16QAM	1	49	22.62	22.53	22.69	22.62	22.53	22.69
10	16QAM	25	0	21.52	21.44	21.52	21.52	21.44	21.52
10	16QAM	25	12	21.51	21.44	21.46	21.51	21.44	21.46
10	16QAM	25	25	21.44	21.38	21.49	21.44	21.38	21.49
10	16QAM	50	0	21.49	21.41	21.43	21.49	21.41	21.43
10	64QAM	1	0	21.70	21.50	21.63	21.70	21.50	21.63
10	64QAM	1	25	21.58	21.55	21.58	21.58	21.55	21.58
10	64QAM	1	49	21.45	21.50	21.62	21.45	21.50	21.62
10	64QAM	25	0	20.49	20.43	20.47	20.49	20.43	20.47
10	64QAM	25	12	20.51	20.45	20.49	20.51	20.45	20.49
10	64QAM	25	25	20.44	20.41	20.53	20.44	20.41	20.53
10	64QAM	50	0	20.54	20.39	20.48	20.54	20.39	20.48
Channel				26065	26340	26665	26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5	1852.5	1880	1912.5
5	QPSK	1	0	23.38	23.23	23.39	23.38	23.23	23.39
5	QPSK	1	12	23.33	23.24	23.40	23.33	23.24	23.40
5	QPSK	1	24	23.30	23.24	23.42	23.30	23.24	23.42
5	QPSK	12	0	22.43	22.33	22.45	22.43	22.33	22.45
5	QPSK	12	7	22.43	22.31	22.41	22.43	22.31	22.41
5	QPSK	12	13	22.39	22.33	22.38	22.39	22.33	22.38
5	QPSK	25	0	22.38	22.28	22.42	22.38	22.28	22.42
5	16QAM	1	0	22.81	22.51	22.83	22.81	22.51	22.83
5	16QAM	1	12	22.61	22.50	22.74	22.61	22.50	22.74
5	16QAM	1	24	22.56	22.52	22.69	22.56	22.52	22.69
5	16QAM	12	0	21.51	21.40	21.53	21.51	21.40	21.53
5	16QAM	12	7	21.50	21.47	21.56	21.50	21.47	21.56
5	16QAM	12	13	21.50	21.36	21.48	21.50	21.36	21.48
5	16QAM	25	0	21.50	21.36	21.52	21.50	21.36	21.52
5	64QAM	1	0	21.67	21.49	21.66	21.67	21.49	21.66
5	64QAM	1	12	21.55	21.54	21.65	21.55	21.54	21.65
5	64QAM	1	24	21.63	21.57	21.63	21.63	21.57	21.63
5	64QAM	12	0	20.57	20.51	20.58	20.57	20.51	20.58
5	64QAM	12	7	20.53	20.48	20.58	20.53	20.48	20.58
5	64QAM	12	13	20.54	20.43	20.50	20.54	20.43	20.50
5	64QAM	25	0	20.49	20.39	20.49	20.49	20.39	20.49
Channel				26055	26340	26675	26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5	1851.5	1880	1913.5
3	QPSK	1	0	23.33	23.14	23.34	23.33	23.14	23.34
3	QPSK	1	8	23.28	23.19	23.38	23.28	23.19	23.38
3	QPSK	1	14	23.26	23.20	23.30	23.26	23.20	23.30
3	QPSK	8	0	22.37	22.28	22.36	22.37	22.28	22.36
3	QPSK	8	4	22.37	22.31	22.40	22.37	22.31	22.40
3	QPSK	8	7	22.36	22.28	22.35	22.36	22.28	22.35
3	QPSK	15	0	22.34	22.24	22.38	22.34	22.24	22.38
3	16QAM	1	0	22.67	22.49	22.67	22.67	22.49	22.67
3	16QAM	1	8	22.61	22.45	22.67	22.61	22.45	22.67



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3	16QAM	1	14	22.51	22.53	22.56	22.51	22.53	22.56
3	16QAM	8	0	21.48	21.39	21.54	21.48	21.39	21.54
3	16QAM	8	4	21.54	21.43	21.54	21.54	21.43	21.54
3	16QAM	8	7	21.47	21.38	21.47	21.47	21.38	21.47
3	16QAM	15	0	21.46	21.32	21.46	21.46	21.32	21.46
3	64QAM	1	0	21.64	21.31	21.62	21.64	21.31	21.62
3	64QAM	1	8	21.55	21.44	21.60	21.55	21.44	21.60
3	64QAM	1	14	21.59	21.47	21.62	21.59	21.47	21.62
3	64QAM	8	0	20.47	20.40	20.53	20.47	20.40	20.53
3	64QAM	8	4	20.54	20.43	20.56	20.54	20.43	20.56
3	64QAM	8	7	20.50	20.44	20.47	20.50	20.44	20.47
3	64QAM	15	0	20.43	20.33	20.49	20.43	20.33	20.49
Channel				131979	132322	132665	26047	26340	26683
Frequency (MHz)				1710.7	1745	1779.3	1850.7	1880	1914.3
1.4	QPSK	1	0	23.24	23.27	23.35	23.24	23.27	23.35
1.4	QPSK	1	3	23.30	23.21	23.23	23.30	23.21	23.23
1.4	QPSK	1	5	23.24	23.15	23.08	23.24	23.15	23.08
1.4	QPSK	3	0	23.34	23.25	23.32	23.34	23.25	23.32
1.4	QPSK	3	1	23.35	23.27	23.32	23.35	23.27	23.32
1.4	QPSK	3	3	23.35	23.22	23.34	23.35	23.22	23.34
1.4	QPSK	6	0	22.39	22.18	22.28	22.39	22.18	22.28
1.4	16QAM	1	0	22.75	22.61	22.60	22.75	22.61	22.60
1.4	16QAM	1	3	22.72	22.65	22.67	22.72	22.65	22.67
1.4	16QAM	1	5	22.62	22.57	22.48	22.62	22.57	22.48
1.4	16QAM	3	0	22.46	22.35	22.28	22.46	22.35	22.28
1.4	16QAM	3	1	22.48	22.42	22.35	22.48	22.42	22.35
1.4	16QAM	3	3	22.39	22.28	22.38	22.39	22.28	22.38
1.4	16QAM	6	0	21.54	21.34	21.46	21.54	21.34	21.46
1.4	64QAM	1	0	21.57	21.48	21.55	21.57	21.48	21.55
1.4	64QAM	1	3	21.66	21.56	21.62	21.66	21.56	21.62
1.4	64QAM	1	5	21.62	21.41	21.47	21.62	21.41	21.47
1.4	64QAM	3	0	21.61	21.51	21.49	21.61	21.51	21.49
1.4	64QAM	3	1	21.61	21.59	21.44	21.61	21.59	21.44
1.4	64QAM	3	3	21.50	21.47	21.52	21.50	21.47	21.52
1.4	64QAM	6	0	20.47	20.26	20.39	20.47	20.26	20.39



<LTE Band 26>

<WiFi off>

Power Selection				Head / Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965	26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5	821.5	831.5	841.5
15	QPSK	1	0	24.30	24.24	24.32	24.30	24.24	24.32
15	QPSK	1	37	23.73	23.73	23.75	23.73	23.73	23.75
15	QPSK	1	74	24.21	24.15	24.21	24.21	24.15	24.21
15	QPSK	36	0	23.01	22.95	22.89	23.01	22.95	22.89
15	QPSK	36	20	22.84	22.77	22.88	22.84	22.77	22.88
15	QPSK	36	39	22.97	22.79	22.83	22.97	22.79	22.83
15	QPSK	75	0	22.91	22.86	22.97	22.91	22.86	22.97
15	16QAM	1	0	23.47	23.44	23.50	23.47	23.44	23.50
15	16QAM	1	37	23.08	23.07	23.05	23.08	23.07	23.05
15	16QAM	1	74	23.48	23.45	23.50	23.48	23.45	23.50
15	16QAM	36	0	22.05	22.05	22.04	22.05	22.05	22.04
15	16QAM	36	20	21.90	21.84	21.96	21.90	21.84	21.96
15	16QAM	36	39	22.02	21.91	21.94	22.02	21.91	21.94
15	16QAM	75	0	21.97	21.96	22.04	21.97	21.96	22.04
15	64QAM	1	0	22.48	22.49	22.50	22.48	22.49	22.50
15	64QAM	1	37	21.90	21.90	22.06	21.90	21.90	22.06
15	64QAM	1	74	22.39	22.35	22.47	22.39	22.35	22.47
15	64QAM	36	0	21.13	21.08	21.06	21.13	21.08	21.06
15	64QAM	36	20	20.93	20.90	20.93	20.93	20.90	20.93
15	64QAM	36	39	21.05	20.96	21.00	21.05	20.96	21.00
15	64QAM	75	0	21.02	21.01	21.06	21.02	21.01	21.06
Channel				26740	26865	26990	26740	26865	26990
Frequency (MHz)				819	831.5	844	819	831.5	844
10	QPSK	1	0	23.85	23.70	23.82	23.85	23.70	23.82
10	QPSK	1	25	23.81	23.68	23.75	23.81	23.68	23.75
10	QPSK	1	49	23.79	23.71	23.74	23.79	23.71	23.74
10	QPSK	25	0	22.91	22.74	22.76	22.91	22.74	22.76
10	QPSK	25	12	22.84	22.73	22.73	22.84	22.73	22.73
10	QPSK	25	25	22.84	22.64	22.72	22.84	22.64	22.72
10	QPSK	50	0	22.86	22.70	22.70	22.86	22.70	22.70
10	16QAM	1	0	23.16	23.05	23.06	23.16	23.05	23.06
10	16QAM	1	25	23.17	22.96	23.08	23.17	22.96	23.08
10	16QAM	1	49	23.07	22.96	23.00	23.07	22.96	23.00
10	16QAM	25	0	22.00	21.83	21.87	22.00	21.83	21.87
10	16QAM	25	12	22.00	21.81	21.81	22.00	21.81	21.81
10	16QAM	25	25	21.89	21.69	21.80	21.89	21.69	21.80
10	16QAM	50	0	21.96	21.76	21.81	21.96	21.76	21.81
10	64QAM	1	0	22.18	21.93	22.06	22.18	21.93	22.06
10	64QAM	1	25	22.07	21.95	22.01	22.07	21.95	22.01
10	64QAM	1	49	22.03	21.97	21.94	22.03	21.97	21.94
10	64QAM	25	0	21.03	20.85	20.84	21.03	20.85	20.84
10	64QAM	25	12	21.00	20.80	20.80	21.00	20.80	20.80
10	64QAM	25	25	20.93	20.74	20.78	20.93	20.74	20.78
10	64QAM	50	0	20.93	20.81	20.78	20.93	20.81	20.78
Channel				26715	26865	27015	26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5	816.5	831.5	846.5
5	QPSK	1	0	23.69	23.70	23.82	23.69	23.70	23.82
5	QPSK	1	12	23.62	23.63	23.72	23.62	23.63	23.72
5	QPSK	1	24	23.66	23.65	23.74	23.66	23.65	23.74
5	QPSK	12	0	22.66	22.73	22.78	22.66	22.73	22.78
5	QPSK	12	7	22.69	22.69	22.75	22.69	22.69	22.75
5	QPSK	12	13	22.73	22.65	22.71	22.73	22.65	22.71
5	QPSK	25	0	22.75	22.64	22.74	22.75	22.64	22.74
5	16QAM	1	0	22.99	23.02	23.04	22.99	23.02	23.04
5	16QAM	1	12	22.95	23.01	23.07	22.95	23.01	23.07
5	16QAM	1	24	23.01	22.93	23.06	23.01	22.93	23.06
5	16QAM	12	0	21.79	21.80	21.84	21.79	21.80	21.84
5	16QAM	12	7	21.74	21.80	21.82	21.74	21.80	21.82
5	16QAM	12	13	21.78	21.72	21.84	21.78	21.72	21.84



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5	16QAM	25	0	21.83	21.75	21.85	21.83	21.75	21.85
5	64QAM	1	0	21.97	21.98	22.06	21.97	21.98	22.06
5	64QAM	1	12	21.86	21.84	21.99	21.86	21.84	21.99
5	64QAM	1	24	21.86	21.89	21.91	21.86	21.89	21.91
5	64QAM	12	0	20.82	20.84	20.88	20.82	20.84	20.88
5	64QAM	12	7	20.81	20.83	20.84	20.81	20.83	20.84
5	64QAM	12	13	20.89	20.79	20.82	20.89	20.79	20.82
5	64QAM	25	0	20.87	20.78	20.86	20.87	20.78	20.86
Channel				26705	26865	27025	26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5	815.5	831.5	847.5
3	QPSK	1	0	23.78	23.70	23.78	23.78	23.70	23.78
3	QPSK	1	8	23.73	23.68	23.69	23.73	23.68	23.69
3	QPSK	1	14	23.71	23.61	23.69	23.71	23.61	23.69
3	QPSK	8	0	22.82	22.68	22.71	22.82	22.68	22.71
3	QPSK	8	4	22.78	22.63	22.75	22.78	22.63	22.75
3	QPSK	8	7	22.72	22.64	22.68	22.72	22.64	22.68
3	QPSK	15	0	22.75	22.66	22.68	22.75	22.66	22.68
3	16QAM	1	0	23.13	22.89	22.95	23.13	22.89	22.95
3	16QAM	1	8	22.95	22.93	23.02	22.95	22.93	23.02
3	16QAM	1	14	23.00	22.87	22.99	23.00	22.87	22.99
3	16QAM	8	0	21.89	21.81	21.84	21.89	21.81	21.84
3	16QAM	8	4	21.90	21.82	21.84	21.90	21.82	21.84
3	16QAM	8	7	21.83	21.81	21.84	21.83	21.81	21.84
3	16QAM	15	0	21.86	21.75	21.81	21.86	21.75	21.81
3	64QAM	1	0	22.02	21.90	21.99	22.02	21.90	21.99
3	64QAM	1	8	21.93	21.85	21.88	21.93	21.85	21.88
3	64QAM	1	14	21.91	21.86	21.95	21.91	21.86	21.95
3	64QAM	8	0	20.88	20.80	20.81	20.88	20.80	20.81
3	64QAM	8	4	20.92	20.79	20.86	20.92	20.79	20.86
3	64QAM	8	7	20.88	20.77	20.82	20.88	20.77	20.82
3	64QAM	15	0	20.84	20.74	20.80	20.84	20.74	20.80
Channel				26697	26865	27033	26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3	814.7	831.5	848.3
1.4	QPSK	1	0	23.63	23.58	23.65	23.63	23.58	23.65
1.4	QPSK	1	3	23.75	23.65	23.68	23.75	23.65	23.68
1.4	QPSK	1	5	23.66	23.56	23.58	23.66	23.56	23.58
1.4	QPSK	3	0	23.73	23.64	23.66	23.73	23.64	23.66
1.4	QPSK	3	1	23.74	23.66	23.68	23.74	23.66	23.68
1.4	QPSK	3	3	23.71	23.60	23.64	23.71	23.60	23.64
1.4	QPSK	6	0	22.71	22.56	22.61	22.71	22.56	22.61
1.4	16QAM	1	0	23.09	22.92	22.94	23.09	22.92	22.94
1.4	16QAM	1	3	23.09	23.03	23.04	23.09	23.03	23.04
1.4	16QAM	1	5	22.93	22.95	22.86	22.93	22.95	22.86
1.4	16QAM	3	0	22.78	22.70	22.68	22.78	22.70	22.68
1.4	16QAM	3	1	22.88	22.76	22.75	22.88	22.76	22.75
1.4	16QAM	3	3	22.77	22.66	22.78	22.77	22.66	22.78
1.4	16QAM	6	0	21.88	21.70	21.78	21.88	21.70	21.78
1.4	64QAM	1	0	21.92	21.84	21.88	21.92	21.84	21.88
1.4	64QAM	1	3	22.00	21.89	21.94	22.00	21.89	21.94
1.4	64QAM	1	5	21.92	21.78	21.84	21.92	21.78	21.84
1.4	64QAM	3	0	21.92	21.82	21.84	21.92	21.82	21.84
1.4	64QAM	3	1	21.98	21.89	21.82	21.98	21.89	21.82
1.4	64QAM	3	3	21.89	21.80	21.91	21.89	21.80	21.91
1.4	64QAM	6	0	20.82	20.65	20.70	20.82	20.65	20.70

**<Wifi on>**

Power Selection				Head / Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965	26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5	821.5	831.5	841.5
15	QPSK	1	0	24.30	24.24	24.32	24.30	24.24	24.32
15	QPSK	1	37	23.73	23.73	23.75	23.73	23.73	23.75
15	QPSK	1	74	24.21	24.15	24.21	24.21	24.15	24.21
15	QPSK	36	0	23.01	22.95	22.89	23.01	22.95	22.89
15	QPSK	36	20	22.84	22.77	22.88	22.84	22.77	22.88
15	QPSK	36	39	22.97	22.79	22.83	22.97	22.79	22.83
15	QPSK	75	0	22.91	22.86	22.97	22.91	22.86	22.97
15	16QAM	1	0	23.47	23.44	23.50	23.47	23.44	23.50
15	16QAM	1	37	23.08	23.07	23.05	23.08	23.07	23.05
15	16QAM	1	74	23.48	23.45	23.50	23.48	23.45	23.50
15	16QAM	36	0	22.05	22.05	22.04	22.05	22.05	22.04
15	16QAM	36	20	21.90	21.84	21.96	21.90	21.84	21.96
15	16QAM	36	39	22.02	21.91	21.94	22.02	21.91	21.94
15	16QAM	75	0	21.97	21.96	22.04	21.97	21.96	22.04
15	64QAM	1	0	22.48	22.49	22.50	22.48	22.49	22.50
15	64QAM	1	37	21.90	21.90	22.06	21.90	21.90	22.06
15	64QAM	1	74	22.39	22.35	22.47	22.39	22.35	22.47
15	64QAM	36	0	21.13	21.08	21.06	21.13	21.08	21.06
15	64QAM	36	20	20.93	20.90	20.93	20.93	20.90	20.93
15	64QAM	36	39	21.05	20.96	21.00	21.05	20.96	21.00
15	64QAM	75	0	21.02	21.01	21.06	21.02	21.01	21.06
Channel				26740	26865	26990	26740	26865	26990
Frequency (MHz)				819	831.5	844	819	831.5	844
10	QPSK	1	0	23.85	23.70	23.82	23.85	23.70	23.82
10	QPSK	1	25	23.81	23.68	23.75	23.81	23.68	23.75
10	QPSK	1	49	23.79	23.71	23.74	23.79	23.71	23.74
10	QPSK	25	0	22.91	22.74	22.76	22.91	22.74	22.76
10	QPSK	25	12	22.84	22.73	22.73	22.84	22.73	22.73
10	QPSK	25	25	22.84	22.64	22.72	22.84	22.64	22.72
10	QPSK	50	0	22.86	22.70	22.70	22.86	22.70	22.70
10	16QAM	1	0	23.16	23.05	23.06	23.16	23.05	23.06
10	16QAM	1	25	23.17	22.96	23.08	23.17	22.96	23.08
10	16QAM	1	49	23.07	22.96	23.00	23.07	22.96	23.00
10	16QAM	25	0	22.00	21.83	21.87	22.00	21.83	21.87
10	16QAM	25	12	22.00	21.81	21.81	22.00	21.81	21.81
10	16QAM	25	25	21.89	21.69	21.80	21.89	21.69	21.80
10	16QAM	50	0	21.96	21.76	21.81	21.96	21.76	21.81
10	64QAM	1	0	22.18	21.93	22.06	22.18	21.93	22.06
10	64QAM	1	25	22.07	21.95	22.01	22.07	21.95	22.01
10	64QAM	1	49	22.03	21.97	21.94	22.03	21.97	21.94
10	64QAM	25	0	21.03	20.85	20.84	21.03	20.85	20.84
10	64QAM	25	12	21.00	20.80	20.80	21.00	20.80	20.80
10	64QAM	25	25	20.93	20.74	20.78	20.93	20.74	20.78
10	64QAM	50	0	20.93	20.81	20.78	20.93	20.81	20.78
Channel				26715	26865	27015	26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5	816.5	831.5	846.5
5	QPSK	1	0	23.69	23.70	23.82	23.69	23.70	23.82
5	QPSK	1	12	23.62	23.63	23.72	23.62	23.63	23.72
5	QPSK	1	24	23.66	23.65	23.74	23.66	23.65	23.74
5	QPSK	12	0	22.66	22.73	22.78	22.66	22.73	22.78
5	QPSK	12	7	22.69	22.69	22.75	22.69	22.69	22.75
5	QPSK	12	13	22.73	22.65	22.71	22.73	22.65	22.71
5	QPSK	25	0	22.75	22.64	22.74	22.75	22.64	22.74
5	16QAM	1	0	22.99	23.02	23.04	22.99	23.02	23.04
5	16QAM	1	12	22.95	23.01	23.07	22.95	23.01	23.07
5	16QAM	1	24	23.01	22.93	23.06	23.01	22.93	23.06
5	16QAM	12	0	21.79	21.80	21.84	21.79	21.80	21.84
5	16QAM	12	7	21.74	21.80	21.82	21.74	21.80	21.82
5	16QAM	12	13	21.78	21.72	21.84	21.78	21.72	21.84



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5	16QAM	25	0	21.83	21.75	21.85	21.83	21.75	21.85
5	64QAM	1	0	21.97	21.98	22.06	21.97	21.98	22.06
5	64QAM	1	12	21.86	21.84	21.99	21.86	21.84	21.99
5	64QAM	1	24	21.86	21.89	21.91	21.86	21.89	21.91
5	64QAM	12	0	20.82	20.84	20.88	20.82	20.84	20.88
5	64QAM	12	7	20.81	20.83	20.84	20.81	20.83	20.84
5	64QAM	12	13	20.89	20.79	20.82	20.89	20.79	20.82
5	64QAM	25	0	20.87	20.78	20.86	20.87	20.78	20.86
Channel				26705	26865	27025	26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5	815.5	831.5	847.5
3	QPSK	1	0	23.78	23.70	23.78	23.78	23.70	23.78
3	QPSK	1	8	23.73	23.68	23.69	23.73	23.68	23.69
3	QPSK	1	14	23.71	23.61	23.69	23.71	23.61	23.69
3	QPSK	8	0	22.82	22.68	22.71	22.82	22.68	22.71
3	QPSK	8	4	22.78	22.63	22.75	22.78	22.63	22.75
3	QPSK	8	7	22.72	22.64	22.68	22.72	22.64	22.68
3	QPSK	15	0	22.75	22.66	22.68	22.75	22.66	22.68
3	16QAM	1	0	23.13	22.89	22.95	23.13	22.89	22.95
3	16QAM	1	8	22.95	22.93	23.02	22.95	22.93	23.02
3	16QAM	1	14	23.00	22.87	22.99	23.00	22.87	22.99
3	16QAM	8	0	21.89	21.81	21.84	21.89	21.81	21.84
3	16QAM	8	4	21.90	21.82	21.84	21.90	21.82	21.84
3	16QAM	8	7	21.83	21.81	21.84	21.83	21.81	21.84
3	16QAM	15	0	21.86	21.75	21.81	21.86	21.75	21.81
3	64QAM	1	0	22.02	21.90	21.99	22.02	21.90	21.99
3	64QAM	1	8	21.93	21.85	21.88	21.93	21.85	21.88
3	64QAM	1	14	21.91	21.86	21.95	21.91	21.86	21.95
3	64QAM	8	0	20.88	20.80	20.81	20.88	20.80	20.81
3	64QAM	8	4	20.92	20.79	20.86	20.92	20.79	20.86
3	64QAM	8	7	20.88	20.77	20.82	20.88	20.77	20.82
3	64QAM	15	0	20.84	20.74	20.80	20.84	20.74	20.80
Channel				26697	26865	27033	26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3	814.7	831.5	848.3
1.4	QPSK	1	0	23.63	23.58	23.65	23.63	23.58	23.65
1.4	QPSK	1	3	23.75	23.65	23.68	23.75	23.65	23.68
1.4	QPSK	1	5	23.66	23.56	23.58	23.66	23.56	23.58
1.4	QPSK	3	0	23.73	23.64	23.66	23.73	23.64	23.66
1.4	QPSK	3	1	23.74	23.66	23.68	23.74	23.66	23.68
1.4	QPSK	3	3	23.71	23.60	23.64	23.71	23.60	23.64
1.4	QPSK	6	0	22.71	22.56	22.61	22.71	22.56	22.61
1.4	16QAM	1	0	23.09	22.92	22.94	23.09	22.92	22.94
1.4	16QAM	1	3	23.09	23.03	23.04	23.09	23.03	23.04
1.4	16QAM	1	5	22.93	22.95	22.86	22.93	22.95	22.86
1.4	16QAM	3	0	22.78	22.70	22.68	22.78	22.70	22.68
1.4	16QAM	3	1	22.88	22.76	22.75	22.88	22.76	22.75
1.4	16QAM	3	3	22.77	22.66	22.78	22.77	22.66	22.78
1.4	16QAM	6	0	21.88	21.70	21.78	21.88	21.70	21.78
1.4	64QAM	1	0	21.92	21.84	21.88	21.92	21.84	21.88
1.4	64QAM	1	3	22.00	21.89	21.94	22.00	21.89	21.94
1.4	64QAM	1	5	21.92	21.78	21.84	21.92	21.78	21.84
1.4	64QAM	3	0	21.92	21.82	21.84	21.92	21.82	21.84
1.4	64QAM	3	1	21.98	21.89	21.82	21.98	21.89	21.82
1.4	64QAM	3	3	21.89	21.80	21.91	21.89	21.80	21.91
1.4	64QAM	6	0	20.82	20.65	20.70	20.82	20.65	20.70



<LTE Band 30>

<WiFi off>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				23.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		22.44			23.19	
10	QPSK	1	25		22.33			23.08	
10	QPSK	1	49		22.20			23.01	
10	QPSK	25	0		22.40			22.19	
10	QPSK	25	12		22.39			22.16	
10	QPSK	25	25		22.35			22.07	
10	QPSK	50	0		22.38			22.17	
10	16QAM	1	0		22.41			22.51	
10	16QAM	1	25		22.31			22.40	
10	16QAM	1	49		22.21			22.26	
10	16QAM	25	0		22.10			21.31	
10	16QAM	25	12		22.08			21.24	
10	16QAM	25	25		22.05			21.16	
10	16QAM	50	0		22.08			21.23	
10	64QAM	1	0		22.31			21.52	
10	64QAM	1	25		22.25			21.33	
10	64QAM	1	49		22.17			21.21	
10	64QAM	25	0		22.09			20.30	
10	64QAM	25	12		22.09			20.25	
10	64QAM	25	25		22.02			20.23	
10	64QAM	50	0		22.08			20.27	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	22.27	22.30	22.34	23.16	23.13	23.16
5	QPSK	1	12	22.24	22.20	22.05	23.05	23.05	22.91
5	QPSK	1	24	22.22	22.17	22.13	23.04	23.02	23.00
5	QPSK	12	0	22.11	22.11	22.14	22.11	22.11	22.14
5	QPSK	12	7	22.13	22.13	21.98	22.13	22.13	21.98
5	QPSK	12	13	22.05	22.10	21.93	22.05	22.10	21.93
5	QPSK	25	0	22.08	22.10	22.08	22.08	22.10	22.08
5	16QAM	1	0	22.17	22.30	22.30	22.42	22.53	22.44
5	16QAM	1	12	22.24	22.14	21.99	22.43	22.37	22.23
5	16QAM	1	24	22.16	22.17	22.06	22.37	22.27	22.24
5	16QAM	12	0	22.07	22.11	22.13	21.25	21.26	21.18
5	16QAM	12	7	22.06	22.13	21.95	21.23	21.25	21.06
5	16QAM	12	13	21.98	22.02	21.89	21.22	21.20	21.00
5	16QAM	25	0	22.02	22.03	22.02	21.26	21.19	21.15
5	64QAM	1	0	22.25	22.26	22.24	21.43	21.38	21.43
5	64QAM	1	12	22.17	22.12	22.01	21.33	21.38	21.27
5	64QAM	1	24	22.22	22.08	22.08	21.25	21.28	21.23
5	64QAM	12	0	22.06	22.09	22.14	20.26	20.30	20.27
5	64QAM	12	7	22.04	22.07	21.95	20.25	20.26	20.17
5	64QAM	12	13	22.00	22.09	21.88	20.27	20.22	20.05
5	64QAM	25	0	22.08	22.09	21.99	20.20	20.17	20.20

Power Selection				Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		23.19			23.19	
10	QPSK	1	25		23.08			23.08	
10	QPSK	1	49		23.01			23.01	
10	QPSK	25	0		22.19			22.19	
10	QPSK	25	12		22.16			22.16	
10	QPSK	25	25		22.07			22.07	



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10	QPSK	50	0		22.17			22.17	
10	16QAM	1	0		22.51			22.51	
10	16QAM	1	25		22.40			22.40	
10	16QAM	1	49		22.26			22.26	
10	16QAM	25	0		21.31			21.31	
10	16QAM	25	12		21.24			21.24	
10	16QAM	25	25		21.16			21.16	
10	16QAM	50	0		21.23			21.23	
10	64QAM	1	0		21.52			21.52	
10	64QAM	1	25		21.33			21.33	
10	64QAM	1	49		21.21			21.21	
10	64QAM	25	0		20.30			20.30	
10	64QAM	25	12		20.25			20.25	
10	64QAM	25	25		20.23			20.23	
10	64QAM	50	0		20.27			20.27	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	23.16	23.13	23.16	23.16	23.13	23.16
5	QPSK	1	12	23.05	23.05	22.91	23.05	23.05	22.91
5	QPSK	1	24	23.04	23.02	23.00	23.04	23.02	23.00
5	QPSK	12	0	22.11	22.11	22.14	22.11	22.11	22.14
5	QPSK	12	7	22.13	22.13	21.98	22.13	22.13	21.98
5	QPSK	12	13	22.05	22.10	21.93	22.05	22.10	21.93
5	QPSK	25	0	22.08	22.10	22.08	22.08	22.10	22.08
5	16QAM	1	0	22.42	22.53	22.44	22.42	22.53	22.44
5	16QAM	1	12	22.43	22.37	22.23	22.43	22.37	22.23
5	16QAM	1	24	22.37	22.27	22.24	22.37	22.27	22.24
5	16QAM	12	0	21.25	21.26	21.18	21.25	21.26	21.18
5	16QAM	12	7	21.23	21.25	21.06	21.23	21.25	21.06
5	16QAM	12	13	21.22	21.20	21.00	21.22	21.20	21.00
5	16QAM	25	0	21.26	21.19	21.15	21.26	21.19	21.15
5	64QAM	1	0	21.43	21.38	21.43	21.43	21.38	21.43
5	64QAM	1	12	21.33	21.38	21.27	21.33	21.38	21.27
5	64QAM	1	24	21.25	21.28	21.23	21.25	21.28	21.23
5	64QAM	12	0	20.26	20.30	20.27	20.26	20.30	20.27
5	64QAM	12	7	20.25	20.26	20.17	20.25	20.26	20.17
5	64QAM	12	13	20.27	20.22	20.05	20.27	20.22	20.05
5	64QAM	25	0	20.20	20.17	20.20	20.20	20.17	20.20



<Wifi on>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				22.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		22.44			23.19	
10	QPSK	1	25		22.33			23.08	
10	QPSK	1	49		22.20			23.01	
10	QPSK	25	0		22.40			22.19	
10	QPSK	25	12		22.39			22.16	
10	QPSK	25	25		22.35			22.07	
10	QPSK	50	0		22.38			22.17	
10	16QAM	1	0		22.41			22.51	
10	16QAM	1	25		22.31			22.40	
10	16QAM	1	49		22.21			22.26	
10	16QAM	25	0		22.10			21.31	
10	16QAM	25	12		22.08			21.24	
10	16QAM	25	25		22.05			21.16	
10	16QAM	50	0		22.08			21.23	
10	64QAM	1	0		22.31			21.52	
10	64QAM	1	25		22.25			21.33	
10	64QAM	1	49		22.17			21.21	
10	64QAM	25	0		22.09			20.30	
10	64QAM	25	12		22.09			20.25	
10	64QAM	25	25		22.02			20.23	
10	64QAM	50	0		22.08			20.27	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	22.27	22.30	22.34	23.16	23.13	23.16
5	QPSK	1	12	22.24	22.20	22.05	23.05	23.05	22.91
5	QPSK	1	24	22.22	22.17	22.13	23.04	23.02	23.00
5	QPSK	12	0	22.11	22.11	22.14	22.11	22.11	22.14
5	QPSK	12	7	22.13	22.13	21.98	22.13	22.13	21.98
5	QPSK	12	13	22.05	22.10	21.93	22.05	22.10	21.93
5	QPSK	25	0	22.08	22.10	22.08	22.08	22.10	22.08
5	16QAM	1	0	22.17	22.30	22.30	22.42	22.53	22.44
5	16QAM	1	12	22.24	22.14	21.99	22.43	22.37	22.23
5	16QAM	1	24	22.16	22.17	22.06	22.37	22.27	22.24
5	16QAM	12	0	22.07	22.11	22.13	21.25	21.26	21.18
5	16QAM	12	7	22.06	22.13	21.95	21.23	21.25	21.06
5	16QAM	12	13	21.98	22.02	21.89	21.22	21.20	21.00
5	16QAM	25	0	22.02	22.03	22.02	21.26	21.19	21.15
5	64QAM	1	0	22.25	22.26	22.24	21.43	21.38	21.43
5	64QAM	1	12	22.17	22.12	22.01	21.33	21.38	21.27
5	64QAM	1	24	22.22	22.08	22.08	21.25	21.28	21.23
5	64QAM	12	0	22.06	22.09	22.14	20.26	20.30	20.27
5	64QAM	12	7	22.04	22.07	21.95	20.25	20.26	20.17
5	64QAM	12	13	22.00	22.09	21.88	20.27	20.22	20.05
5	64QAM	25	0	22.08	22.09	21.99	20.20	20.17	20.20

Power Selection				Hotspot / Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel					27710			27710	
Frequency (MHz)					2310			2310	
10	QPSK	1	0		23.19			23.19	
10	QPSK	1	25		23.08			23.08	
10	QPSK	1	49		23.01			23.01	
10	QPSK	25	0		22.19			22.19	
10	QPSK	25	12		22.16			22.16	
10	QPSK	25	25		22.07			22.07	
10	QPSK	50	0		22.17			22.17	
10	16QAM	1	0		22.51			22.51	



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10	16QAM	1	25		22.40			22.40	
10	16QAM	1	49		22.26			22.26	
10	16QAM	25	0		21.31			21.31	
10	16QAM	25	12		21.24			21.24	
10	16QAM	25	25		21.16			21.16	
10	16QAM	50	0		21.23			21.23	
10	64QAM	1	0		21.52			21.52	
10	64QAM	1	25		21.33			21.33	
10	64QAM	1	49		21.21			21.21	
10	64QAM	25	0		20.30			20.30	
10	64QAM	25	12		20.25			20.25	
10	64QAM	25	25		20.23			20.23	
10	64QAM	50	0		20.27			20.27	
Channel				27685	27710	27735	27685	27710	27735
Frequency (MHz)				2307.5	2310	2312.5	2307.5	2310	2312.5
5	QPSK	1	0	23.16	23.13	23.16	23.16	23.13	23.16
5	QPSK	1	12	23.05	23.05	22.91	23.05	23.05	22.91
5	QPSK	1	24	23.04	23.02	23.00	23.04	23.02	23.00
5	QPSK	12	0	22.11	22.11	22.14	22.11	22.11	22.14
5	QPSK	12	7	22.13	22.13	21.98	22.13	22.13	21.98
5	QPSK	12	13	22.05	22.10	21.93	22.05	22.10	21.93
5	QPSK	25	0	22.08	22.10	22.08	22.08	22.10	22.08
5	16QAM	1	0	22.42	22.53	22.44	22.42	22.53	22.44
5	16QAM	1	12	22.43	22.37	22.23	22.43	22.37	22.23
5	16QAM	1	24	22.37	22.27	22.24	22.37	22.27	22.24
5	16QAM	12	0	21.25	21.26	21.18	21.25	21.26	21.18
5	16QAM	12	7	21.23	21.25	21.06	21.23	21.25	21.06
5	16QAM	12	13	21.22	21.20	21.00	21.22	21.20	21.00
5	16QAM	25	0	21.26	21.19	21.15	21.26	21.19	21.15
5	64QAM	1	0	21.43	21.38	21.43	21.43	21.38	21.43
5	64QAM	1	12	21.33	21.38	21.27	21.33	21.38	21.27
5	64QAM	1	24	21.25	21.28	21.23	21.25	21.28	21.23
5	64QAM	12	0	20.26	20.30	20.27	20.26	20.30	20.27
5	64QAM	12	7	20.25	20.26	20.17	20.25	20.26	20.17
5	64QAM	12	13	20.27	20.22	20.05	20.27	20.22	20.05
5	64QAM	25	0	20.20	20.17	20.20	20.20	20.17	20.20

**<LTE Band 66>****<WiFi off>**

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				21.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	20.15	20.11	20.02	23.23	23.03	23.01
20	QPSK	1	49	20.11	20.06	20.01	23.10	23.18	23.07
20	QPSK	1	99	20.12	20.05	20.00	23.11	23.10	23.10
20	QPSK	50	0	20.14	20.04	20.02	22.23	22.06	22.04
20	QPSK	50	24	20.06	20.02	20.00	22.14	22.04	22.01
20	QPSK	50	50	20.04	20.01	20.01	22.04	22.02	22.02
20	QPSK	100	0	20.08	20.02	20.00	22.15	22.08	22.03
20	16QAM	1	0	20.13	20.02	19.97	22.61	22.27	22.21
20	16QAM	1	49	20.01	20.03	19.98	22.26	22.07	22.05
20	16QAM	1	99	20.03	20.09	19.98	22.22	22.16	22.09
20	16QAM	50	0	20.13	19.91	19.96	21.22	21.02	21.02
20	16QAM	50	24	20.03	19.96	19.98	21.17	21.10	20.88
20	16QAM	50	50	19.98	19.96	19.97	21.10	21.02	21.02
20	16QAM	100	0	20.02	19.98	19.99	21.17	21.08	21.11
20	64QAM	1	0	20.10	19.97	19.98	21.43	21.35	21.29
20	64QAM	1	49	20.08	20.01	19.99	21.20	21.03	21.05
20	64QAM	1	99	20.06	20.05	20.01	21.17	21.08	21.02
20	64QAM	50	0	20.05	20.01	19.90	20.24	20.04	20.01
20	64QAM	50	24	20.03	19.87	19.96	20.15	20.10	19.89
20	64QAM	50	50	19.96	19.94	19.90	20.08	19.99	19.80
20	64QAM	100	0	19.98	19.92	19.93	20.15	20.09	19.91
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	20.05	20.03	19.95	23.14	22.99	22.94
15	QPSK	1	37	20.02	19.98	20.02	22.96	22.89	22.67
15	QPSK	1	74	20.03	20.10	19.99	23.01	22.81	22.76
15	QPSK	36	0	20.08	20.01	19.93	22.15	21.96	21.88
15	QPSK	36	20	20.01	19.98	19.96	22.11	22.01	21.79
15	QPSK	36	39	20.01	20.00	20.01	22.07	21.95	21.73
15	QPSK	75	0	20.02	19.95	19.95	22.10	21.95	21.76
15	16QAM	1	0	20.10	20.01	19.95	22.64	22.27	22.28
15	16QAM	1	37	20.01	19.96	19.91	22.32	22.18	21.90
15	16QAM	1	74	20.03	20.06	19.92	22.33	22.16	22.24
15	16QAM	36	0	20.05	19.89	19.89	21.25	21.01	20.93
15	16QAM	36	20	19.98	19.94	19.88	21.20	21.12	20.90
15	16QAM	36	39	19.88	19.89	19.89	21.15	21.05	20.79
15	16QAM	75	0	20.02	19.96	19.97	21.21	21.09	20.86
15	64QAM	1	0	20.01	19.88	19.90	21.45	21.35	21.25
15	64QAM	1	37	20.08	19.99	19.94	21.31	21.20	21.04
15	64QAM	1	74	20.05	19.99	19.99	21.25	21.13	21.01
15	64QAM	36	0	20.01	19.96	19.85	20.30	20.05	20.02
15	64QAM	36	20	19.96	19.77	19.96	20.23	20.12	19.97
15	64QAM	36	39	19.89	19.84	19.80	20.17	20.10	19.87
15	64QAM	75	0	19.96	19.85	19.86	20.20	20.07	19.88
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	20.08	20.01	19.97	23.09	22.88	22.79
10	QPSK	1	25	20.07	20.00	19.94	23.00	22.88	22.83
10	QPSK	1	49	20.10	20.07	19.94	22.99	22.77	22.74
10	QPSK	25	0	20.08	19.99	19.99	22.11	21.86	21.82
10	QPSK	25	12	20.00	19.94	19.94	22.11	22.00	21.75
10	QPSK	25	25	19.97	19.99	19.92	22.06	21.93	21.83
10	QPSK	50	0	20.07	20.02	19.91	22.08	21.96	21.76
10	16QAM	1	0	20.11	20.02	19.92	22.47	22.15	22.16
10	16QAM	1	25	19.98	19.99	19.98	22.46	22.20	22.19
10	16QAM	1	49	19.98	20.04	19.97	22.40	22.07	21.99
10	16QAM	25	0	20.13	19.87	19.88	21.24	20.96	20.90
10	16QAM	25	12	20.03	19.86	19.91	21.21	21.07	20.87
10	16QAM	25	25	19.89	19.95	19.96	21.15	21.04	20.91



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10	16QAM	50	0	19.94	19.95	19.94	21.16	21.09	20.86
10	64QAM	1	0	20.05	19.88	19.92	21.41	21.10	21.08
10	64QAM	1	25	20.01	20.01	19.99	21.29	21.23	21.13
10	64QAM	1	49	20.00	20.05	19.92	21.20	21.00	21.05
10	64QAM	25	0	19.99	19.91	19.86	20.21	20.02	19.91
10	64QAM	25	12	19.95	19.86	19.93	20.22	20.08	19.85
10	64QAM	25	25	19.94	19.94	19.90	20.15	20.04	19.91
10	64QAM	50	0	19.90	19.89	19.89	20.20	20.06	19.86
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	20.09	20.01	19.96	23.08	22.88	22.81
5	QPSK	1	12	20.04	20.02	19.94	23.06	22.88	22.79
5	QPSK	1	24	20.02	20.02	19.99	23.05	22.85	22.76
5	QPSK	12	0	20.14	19.92	20.00	22.12	21.83	21.82
5	QPSK	12	7	20.00	20.01	19.98	22.11	21.96	21.81
5	QPSK	12	13	19.94	19.94	19.92	22.02	21.89	21.78
5	QPSK	25	0	19.98	20.00	19.94	22.07	21.91	21.80
5	16QAM	1	0	20.08	20.00	19.91	22.43	22.13	22.10
5	16QAM	1	12	19.95	19.96	19.91	22.33	22.24	22.08
5	16QAM	1	24	19.95	20.00	19.92	22.40	22.19	22.01
5	16QAM	12	0	20.12	19.91	19.94	21.24	20.94	20.91
5	16QAM	12	7	20.02	19.94	19.95	21.21	21.05	20.93
5	16QAM	12	13	19.91	19.86	19.93	21.21	21.06	20.90
5	16QAM	25	0	19.99	19.88	19.94	21.20	21.04	20.90
5	64QAM	1	0	20.03	19.96	19.94	21.36	21.12	21.08
5	64QAM	1	12	19.98	19.92	19.95	21.30	20.97	21.07
5	64QAM	1	24	19.96	19.99	19.92	21.26	20.98	21.04
5	64QAM	12	0	20.05	19.95	19.87	19.96	19.98	19.92
5	64QAM	12	7	19.96	19.85	19.88	19.93	20.12	19.93
5	64QAM	12	13	19.87	19.90	19.88	20.01	20.09	19.94
5	64QAM	25	0	19.89	19.82	19.93	19.98	20.10	19.91
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	20.10	20.01	20.01	23.07	22.80	22.78
3	QPSK	1	8	20.04	20.05	19.99	23.00	22.87	22.79
3	QPSK	1	14	20.07	20.04	20.00	22.99	22.83	22.72
3	QPSK	8	0	20.07	19.92	20.01	22.10	21.94	21.75
3	QPSK	8	4	20.04	20.00	20.00	22.10	21.94	21.78
3	QPSK	8	7	20.02	19.94	19.92	22.03	21.94	21.80
3	QPSK	15	0	20.06	19.93	19.96	22.08	21.97	21.80
3	16QAM	1	0	20.05	19.95	19.87	22.43	22.08	22.19
3	16QAM	1	8	19.94	19.94	19.91	22.32	22.23	22.13
3	16QAM	1	14	20.02	20.06	19.88	22.33	22.19	22.01
3	16QAM	8	0	20.03	19.91	19.92	21.24	21.06	20.94
3	16QAM	8	4	19.94	19.88	19.98	21.29	21.15	21.00
3	16QAM	8	7	19.95	19.92	19.89	21.23	21.09	20.94
3	16QAM	15	0	19.95	19.95	19.96	21.20	21.03	20.91
3	64QAM	1	0	20.00	19.92	19.91	21.31	21.08	20.98
3	64QAM	1	8	19.98	19.93	19.93	21.34	21.21	21.04
3	64QAM	1	14	20.05	20.03	19.91	21.30	21.17	20.99
3	64QAM	8	0	20.02	19.98	19.89	20.22	20.10	19.90
3	64QAM	8	4	19.98	19.81	19.95	20.29	20.10	19.94
3	64QAM	8	7	19.88	19.87	19.87	20.19	20.09	19.93
3	64QAM	15	0	19.94	19.92	19.91	20.18	20.01	19.87
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	20.10	20.02	19.92	23.21	23.16	23.18
1.4	QPSK	1	3	20.09	20.01	19.94	23.20	23.20	23.22
1.4	QPSK	1	5	20.12	20.01	19.96	23.18	23.18	23.21
1.4	QPSK	3	0	20.11	19.91	19.94	23.20	23.20	23.15
1.4	QPSK	3	1	19.97	20.00	19.92	23.15	23.18	23.20
1.4	QPSK	3	3	19.98	20.00	19.95	23.20	23.20	23.19
1.4	QPSK	6	0	20.04	20.00	19.93	22.33	22.24	22.40
1.4	16QAM	1	0	20.10	19.94	19.89	22.62	22.58	22.58
1.4	16QAM	1	3	20.01	19.96	19.98	22.62	22.56	22.72
1.4	16QAM	1	5	20.00	20.01	19.96	22.69	22.54	22.47
1.4	16QAM	3	0	20.12	19.82	19.90	22.47	22.37	22.44
1.4	16QAM	3	1	19.99	19.95	19.95	22.44	22.33	22.40
1.4	16QAM	3	3	19.98	19.90	19.96	22.43	22.27	22.35
1.4	16QAM	6	0	19.95	19.94	19.93	21.49	21.39	21.56



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1.4	64QAM	1	0	20.07	19.94	19.98	21.49	21.45	21.59
1.4	64QAM	1	3	20.02	19.96	19.99	21.58	21.52	21.63
1.4	64QAM	1	5	20.04	20.00	19.96	21.54	21.49	21.49
1.4	64QAM	3	0	19.96	19.93	19.90	21.57	21.40	21.55
1.4	64QAM	3	1	19.95	19.87	19.96	21.54	21.42	21.54
1.4	64QAM	3	3	19.93	19.92	19.89	21.53	21.39	21.47
1.4	64QAM	6	0	19.95	19.86	19.89	20.41	20.32	20.46

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			23.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.23	23.03	23.01	22.27	22.06	22.03
20	QPSK	1	49	23.10	23.18	23.07	22.11	22.04	22.00
20	QPSK	1	99	23.11	23.10	23.10	22.00	22.01	22.02
20	QPSK	50	0	22.23	22.06	22.04	22.07	22.05	22.01
20	QPSK	50	24	22.14	22.04	22.01	22.05	22.03	22.01
20	QPSK	50	50	22.04	22.02	22.02	22.02	22.02	22.00
20	QPSK	100	0	22.15	22.08	22.03	22.02	22.01	22.00
20	16QAM	1	0	22.61	22.27	22.21	22.03	22.00	21.95
20	16QAM	1	49	22.26	22.07	22.05	21.97	21.91	21.82
20	16QAM	1	99	22.22	22.16	22.09	21.95	22.05	21.88
20	16QAM	50	0	21.22	21.02	21.02	22.03	21.81	21.87
20	16QAM	50	24	21.17	21.10	20.88	21.90	21.94	21.80
20	16QAM	50	50	21.10	21.02	21.02	21.82	21.87	21.82
20	16QAM	100	0	21.17	21.08	21.11	21.98	21.92	21.88
20	64QAM	1	0	21.43	21.35	21.29	21.98	21.78	21.85
20	64QAM	1	49	21.20	21.03	21.05	22.01	21.99	21.88
20	64QAM	1	99	21.17	21.08	21.02	22.04	21.96	21.99
20	64QAM	50	0	20.24	20.04	20.01	22.00	21.95	21.85
20	64QAM	50	24	20.15	20.10	19.89	21.94	21.73	21.88
20	64QAM	50	50	20.08	19.99	19.80	21.82	21.80	21.74
20	64QAM	100	0	20.15	20.09	19.91	21.89	21.84	21.79
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.14	22.99	22.94	22.22	22.03	21.98
15	QPSK	1	37	22.96	22.89	22.67	22.01	22.03	22.00
15	QPSK	1	74	23.01	22.81	22.76	21.98	21.91	22.01
15	QPSK	36	0	22.15	21.96	21.88	22.06	21.96	21.97
15	QPSK	36	20	22.11	22.01	21.79	21.96	22.00	21.92
15	QPSK	36	39	22.07	21.95	21.73	21.95	22.01	22.00
15	QPSK	75	0	22.10	21.95	21.76	22.02	22.01	21.91
15	16QAM	1	0	22.64	22.27	22.28	21.97	22.00	21.89
15	16QAM	1	37	22.32	22.18	21.90	21.93	21.82	21.78
15	16QAM	1	74	22.33	22.16	22.24	21.89	22.00	21.85
15	16QAM	36	0	21.25	21.01	20.93	22.00	21.76	21.87
15	16QAM	36	20	21.20	21.12	20.90	21.89	21.93	21.73
15	16QAM	36	39	21.15	21.05	20.79	21.76	21.79	21.76
15	16QAM	75	0	21.21	21.09	20.86	21.96	21.85	21.81
15	64QAM	1	0	21.45	21.35	21.25	21.94	21.68	21.85
15	64QAM	1	37	21.31	21.20	21.04	21.99	21.94	21.79
15	64QAM	1	74	21.25	21.13	21.01	21.94	21.90	21.96
15	64QAM	36	0	20.30	20.05	20.02	21.92	21.95	21.80
15	64QAM	36	20	20.23	20.12	19.97	21.84	21.63	21.81
15	64QAM	36	39	20.17	20.10	19.87	21.82	21.79	21.67
15	64QAM	75	0	20.20	20.07	19.88	21.82	21.76	21.73
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.09	22.88	22.79	22.20	22.02	21.99
10	QPSK	1	25	23.00	22.88	22.83	22.03	21.99	21.99
10	QPSK	1	49	22.99	22.77	22.74	21.99	21.91	21.98
10	QPSK	25	0	22.11	21.86	21.82	22.06	22.05	22.00
10	QPSK	25	12	22.11	22.00	21.75	21.99	21.97	21.94
10	QPSK	25	25	22.06	21.93	21.83	21.93	21.97	21.97
10	QPSK	50	0	22.08	21.96	21.76	22.00	21.99	21.99
10	16QAM	1	0	22.47	22.15	22.16	21.95	21.94	21.87



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10	16QAM	1	25	22.46	22.20	22.19	21.95	21.82	21.74
10	16QAM	1	49	22.40	22.07	21.99	21.95	21.98	21.88
10	16QAM	25	0	21.24	20.96	20.90	22.02	21.76	21.84
10	16QAM	25	12	21.21	21.07	20.87	21.84	21.88	21.77
10	16QAM	25	25	21.15	21.04	20.91	21.81	21.82	21.73
10	16QAM	50	0	21.16	21.09	20.86	21.88	21.82	21.83
10	64QAM	1	0	21.41	21.10	21.08	21.98	21.68	21.80
10	64QAM	1	25	21.29	21.23	21.13	21.94	21.92	21.79
10	64QAM	1	49	21.20	21.00	21.05	22.04	21.93	21.92
10	64QAM	25	0	20.21	20.02	19.91	21.98	21.95	21.84
10	64QAM	25	12	20.22	20.08	19.85	21.91	21.70	21.84
10	64QAM	25	25	20.15	20.04	19.91	21.73	21.76	21.74
10	64QAM	50	0	20.20	20.06	19.86	21.87	21.79	21.71
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.08	22.88	22.81	22.24	21.98	21.96
5	QPSK	1	12	23.06	22.88	22.79	22.03	22.01	21.94
5	QPSK	1	24	23.05	22.85	22.76	21.91	21.94	21.97
5	QPSK	12	0	22.12	21.83	21.82	22.03	22.01	21.95
5	QPSK	12	7	22.11	21.96	21.81	21.96	21.94	21.99
5	QPSK	12	13	22.02	21.89	21.78	21.95	21.93	21.93
5	QPSK	25	0	22.07	21.91	21.80	21.92	21.95	21.90
5	16QAM	1	0	22.43	22.13	22.10	21.99	21.90	21.88
5	16QAM	1	12	22.33	22.24	22.08	21.87	21.91	21.73
5	16QAM	1	24	22.40	22.19	22.01	21.93	22.05	21.81
5	16QAM	12	0	21.24	20.94	20.91	21.97	21.77	21.87
5	16QAM	12	7	21.21	21.05	20.93	21.82	21.85	21.71
5	16QAM	12	13	21.21	21.06	20.90	21.81	21.78	21.82
5	16QAM	25	0	21.20	21.04	20.90	21.94	21.90	21.82
5	64QAM	1	0	21.36	21.12	21.08	21.96	21.69	21.78
5	64QAM	1	12	21.30	20.97	21.07	21.93	21.92	21.82
5	64QAM	1	24	21.26	20.98	21.04	22.03	21.92	21.97
5	64QAM	12	0	19.96	19.98	19.92	21.94	21.90	21.85
5	64QAM	12	7	19.93	20.12	19.93	21.93	21.73	21.85
5	64QAM	12	13	20.01	20.09	19.94	21.76	21.80	21.73
5	64QAM	25	0	19.98	20.10	19.91	21.89	21.84	21.73
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.07	22.80	22.78	22.18	22.03	22.02
3	QPSK	1	8	23.00	22.87	22.79	22.11	21.97	21.92
3	QPSK	1	14	22.99	22.83	22.72	21.93	21.98	21.93
3	QPSK	8	0	22.10	21.94	21.75	22.01	21.97	21.99
3	QPSK	8	4	22.10	21.94	21.78	22.05	22.00	21.97
3	QPSK	8	7	22.03	21.94	21.80	21.95	21.92	21.93
3	QPSK	15	0	22.08	21.97	21.80	22.01	22.00	21.97
3	16QAM	1	0	22.43	22.08	22.19	21.95	21.95	21.95
3	16QAM	1	8	22.32	22.23	22.13	21.91	21.87	21.75
3	16QAM	1	14	22.33	22.19	22.01	21.92	21.99	21.79
3	16QAM	8	0	21.24	21.06	20.94	22.02	21.74	21.79
3	16QAM	8	4	21.29	21.15	21.00	21.87	21.92	21.77
3	16QAM	8	7	21.23	21.09	20.94	21.82	21.82	21.78
3	16QAM	15	0	21.20	21.03	20.91	21.92	21.88	21.80
3	64QAM	1	0	21.31	21.08	20.98	21.90	21.77	21.82
3	64QAM	1	8	21.34	21.21	21.04	21.97	21.95	21.79
3	64QAM	1	14	21.30	21.17	20.99	21.96	21.95	21.98
3	64QAM	8	0	20.22	20.10	19.90	21.91	21.85	21.85
3	64QAM	8	4	20.29	20.10	19.94	21.91	21.69	21.86
3	64QAM	8	7	20.19	20.09	19.93	21.80	21.79	21.72
3	64QAM	15	0	20.18	20.01	19.87	21.82	21.79	21.72
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.21	23.16	23.18	22.21	21.97	22.00
1.4	QPSK	1	3	23.20	23.20	23.22	22.05	21.96	21.94
1.4	QPSK	1	5	23.18	23.18	23.21	21.96	21.94	21.93
1.4	QPSK	3	0	23.20	23.20	23.15	22.06	21.95	21.96
1.4	QPSK	3	1	23.15	23.18	23.20	22.05	21.97	21.92
1.4	QPSK	3	3	23.20	23.20	23.19	21.97	21.97	21.94
1.4	QPSK	6	0	22.33	22.24	22.40	22.00	22.01	21.95
1.4	16QAM	1	0	22.62	22.58	22.58	21.93	22.00	21.86
1.4	16QAM	1	3	22.62	22.56	22.72	21.93	21.83	21.81



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1.4	16QAM	1	5	22.69	22.54	22.47	21.90	21.99	21.80
1.4	16QAM	3	0	22.47	22.37	22.44	21.96	21.77	21.86
1.4	16QAM	3	1	22.44	22.33	22.40	21.81	21.86	21.72
1.4	16QAM	3	3	22.43	22.27	22.35	21.79	21.81	21.77
1.4	16QAM	6	0	21.49	21.39	21.56	21.90	21.90	21.88
1.4	64QAM	1	0	21.49	21.45	21.59	21.98	21.77	21.78
1.4	64QAM	1	3	21.58	21.52	21.63	21.94	21.97	21.84
1.4	64QAM	1	5	21.54	21.49	21.49	22.01	21.89	21.97
1.4	64QAM	3	0	21.57	21.40	21.55	21.90	21.88	21.81
1.4	64QAM	3	1	21.54	21.42	21.54	21.93	21.72	21.83
1.4	64QAM	3	3	21.53	21.39	21.47	21.74	21.71	21.65
1.4	64QAM	6	0	20.41	20.32	20.46	21.87	21.76	21.71

Power Selection				Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.23	23.03	23.01	23.23	23.03	23.01
20	QPSK	1	49	23.10	23.18	23.07	23.10	23.18	23.07
20	QPSK	1	99	23.11	23.10	23.10	23.11	23.10	23.10
20	QPSK	50	0	22.23	22.06	22.04	22.23	22.06	22.04
20	QPSK	50	24	22.14	22.04	22.01	22.14	22.04	22.01
20	QPSK	50	50	22.04	22.02	22.02	22.04	22.02	22.02
20	QPSK	100	0	22.15	22.08	22.03	22.15	22.08	22.03
20	16QAM	1	0	22.61	22.27	22.21	22.61	22.27	22.21
20	16QAM	1	49	22.26	22.07	22.05	22.26	22.07	22.05
20	16QAM	1	99	22.22	22.16	22.09	22.22	22.16	22.09
20	16QAM	50	0	21.22	21.02	21.02	21.22	21.02	21.02
20	16QAM	50	24	21.17	21.10	20.88	21.17	21.10	20.88
20	16QAM	50	50	21.10	21.02	21.02	21.10	21.02	21.02
20	16QAM	100	0	21.17	21.08	21.11	21.17	21.08	21.11
20	64QAM	1	0	21.43	21.35	21.29	21.43	21.35	21.29
20	64QAM	1	49	21.20	21.03	21.05	21.20	21.03	21.05
20	64QAM	1	99	21.17	21.08	21.02	21.17	21.08	21.02
20	64QAM	50	0	20.24	20.04	20.01	20.24	20.04	20.01
20	64QAM	50	24	20.15	20.10	19.89	20.15	20.10	19.89
20	64QAM	50	50	20.08	19.99	19.80	20.08	19.99	19.80
20	64QAM	100	0	20.15	20.09	19.91	20.15	20.09	19.91
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.14	22.99	22.94	23.14	22.99	22.94
15	QPSK	1	37	22.96	22.89	22.67	22.96	22.89	22.67
15	QPSK	1	74	23.01	22.81	22.76	23.01	22.81	22.76
15	QPSK	36	0	22.15	21.96	21.88	22.15	21.96	21.88
15	QPSK	36	20	22.11	22.01	21.79	22.11	22.01	21.79
15	QPSK	36	39	22.07	21.95	21.73	22.07	21.95	21.73
15	QPSK	75	0	22.10	21.95	21.76	22.10	21.95	21.76
15	16QAM	1	0	22.64	22.27	22.28	22.64	22.27	22.28
15	16QAM	1	37	22.32	22.18	21.90	22.32	22.18	21.90
15	16QAM	1	74	22.33	22.16	22.24	22.33	22.16	22.24
15	16QAM	36	0	21.25	21.01	20.93	21.25	21.01	20.93
15	16QAM	36	20	21.20	21.12	20.90	21.20	21.12	20.90
15	16QAM	36	39	21.15	21.05	20.79	21.15	21.05	20.79
15	16QAM	75	0	21.21	21.09	20.86	21.21	21.09	20.86
15	64QAM	1	0	21.45	21.35	21.25	21.45	21.35	21.25
15	64QAM	1	37	21.31	21.20	21.04	21.31	21.20	21.04
15	64QAM	1	74	21.25	21.13	21.01	21.25	21.13	21.01
15	64QAM	36	0	20.30	20.05	20.02	20.30	20.05	20.02
15	64QAM	36	20	20.23	20.12	19.97	20.23	20.12	19.97
15	64QAM	36	39	20.17	20.10	19.87	20.17	20.10	19.87
15	64QAM	75	0	20.20	20.07	19.88	20.20	20.07	19.88
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.09	22.88	22.79	23.09	22.88	22.79
10	QPSK	1	25	23.00	22.88	22.83	23.00	22.88	22.83
10	QPSK	1	49	22.99	22.77	22.74	22.99	22.77	22.74



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10	QPSK	25	0	22.11	21.86	21.82	22.11	21.86	21.82
10	QPSK	25	12	22.11	22.00	21.75	22.11	22.00	21.75
10	QPSK	25	25	22.06	21.93	21.83	22.06	21.93	21.83
10	QPSK	50	0	22.08	21.96	21.76	22.08	21.96	21.76
10	16QAM	1	0	22.47	22.15	22.16	22.47	22.15	22.16
10	16QAM	1	25	22.46	22.20	22.19	22.46	22.20	22.19
10	16QAM	1	49	22.40	22.07	21.99	22.40	22.07	21.99
10	16QAM	25	0	21.24	20.96	20.90	21.24	20.96	20.90
10	16QAM	25	12	21.21	21.07	20.87	21.21	21.07	20.87
10	16QAM	25	25	21.15	21.04	20.91	21.15	21.04	20.91
10	16QAM	50	0	21.16	21.09	20.86	21.16	21.09	20.86
10	64QAM	1	0	21.41	21.10	21.08	21.41	21.10	21.08
10	64QAM	1	25	21.29	21.23	21.13	21.29	21.23	21.13
10	64QAM	1	49	21.20	21.00	21.05	21.20	21.00	21.05
10	64QAM	25	0	20.21	20.02	19.91	20.21	20.02	19.91
10	64QAM	25	12	20.22	20.08	19.85	20.22	20.08	19.85
10	64QAM	25	25	20.15	20.04	19.91	20.15	20.04	19.91
10	64QAM	50	0	20.20	20.06	19.86	20.20	20.06	19.86
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.08	22.88	22.81	23.08	22.88	22.81
5	QPSK	1	12	23.06	22.88	22.79	23.06	22.88	22.79
5	QPSK	1	24	23.05	22.85	22.76	23.05	22.85	22.76
5	QPSK	12	0	22.12	21.83	21.82	22.12	21.83	21.82
5	QPSK	12	7	22.11	21.96	21.81	22.11	21.96	21.81
5	QPSK	12	13	22.02	21.89	21.78	22.02	21.89	21.78
5	QPSK	25	0	22.07	21.91	21.80	22.07	21.91	21.80
5	16QAM	1	0	22.43	22.13	22.10	22.43	22.13	22.10
5	16QAM	1	12	22.33	22.24	22.08	22.33	22.24	22.08
5	16QAM	1	24	22.40	22.19	22.01	22.40	22.19	22.01
5	16QAM	12	0	21.24	20.94	20.91	21.24	20.94	20.91
5	16QAM	12	7	21.21	21.05	20.93	21.21	21.05	20.93
5	16QAM	12	13	21.21	21.06	20.90	21.21	21.06	20.90
5	16QAM	25	0	21.20	21.04	20.90	21.20	21.04	20.90
5	64QAM	1	0	21.36	21.12	21.08	21.36	21.12	21.08
5	64QAM	1	12	21.30	20.97	21.07	21.30	20.97	21.07
5	64QAM	1	24	21.26	20.98	21.04	21.26	20.98	21.04
5	64QAM	12	0	19.96	19.98	19.92	19.96	19.98	19.92
5	64QAM	12	7	19.93	20.12	19.93	19.93	20.12	19.93
5	64QAM	12	13	20.01	20.09	19.94	20.01	20.09	19.94
5	64QAM	25	0	19.98	20.10	19.91	19.98	20.10	19.91
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.07	22.80	22.78	23.07	22.80	22.78
3	QPSK	1	8	23.00	22.87	22.79	23.00	22.87	22.79
3	QPSK	1	14	22.99	22.83	22.72	22.99	22.83	22.72
3	QPSK	8	0	22.10	21.94	21.75	22.10	21.94	21.75
3	QPSK	8	4	22.10	21.94	21.78	22.10	21.94	21.78
3	QPSK	8	7	22.03	21.94	21.80	22.03	21.94	21.80
3	QPSK	15	0	22.08	21.97	21.80	22.08	21.97	21.80
3	16QAM	1	0	22.43	22.08	22.19	22.43	22.08	22.19
3	16QAM	1	8	22.32	22.23	22.13	22.32	22.23	22.13
3	16QAM	1	14	22.33	22.19	22.01	22.33	22.19	22.01
3	16QAM	8	0	21.24	21.06	20.94	21.24	21.06	20.94
3	16QAM	8	4	21.29	21.15	21.00	21.29	21.15	21.00
3	16QAM	8	7	21.23	21.09	20.94	21.23	21.09	20.94
3	16QAM	15	0	21.20	21.03	20.91	21.20	21.03	20.91
3	64QAM	1	0	21.31	21.08	20.98	21.31	21.08	20.98
3	64QAM	1	8	21.34	21.21	21.04	21.34	21.21	21.04
3	64QAM	1	14	21.30	21.17	20.99	21.30	21.17	20.99
3	64QAM	8	0	20.22	20.10	19.90	20.22	20.10	19.90
3	64QAM	8	4	20.29	20.10	19.94	20.29	20.10	19.94
3	64QAM	8	7	20.19	20.09	19.93	20.19	20.09	19.93
3	64QAM	15	0	20.18	20.01	19.87	20.18	20.01	19.87
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.21	23.16	23.18	23.21	23.16	23.18
1.4	QPSK	1	3	23.20	23.20	23.22	23.20	23.20	23.22
1.4	QPSK	1	5	23.18	23.18	23.21	23.18	23.18	23.21
1.4	QPSK	3	0	23.20	23.20	23.15	23.20	23.20	23.15

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1.4	QPSK	3	1	23.15	23.18	23.20	23.15	23.18	23.20
1.4	QPSK	3	3	23.20	23.20	23.19	23.20	23.20	23.19
1.4	QPSK	6	0	22.33	22.24	22.40	22.33	22.24	22.40
1.4	16QAM	1	0	22.62	22.58	22.58	22.62	22.58	22.58
1.4	16QAM	1	3	22.62	22.56	22.72	22.62	22.56	22.72
1.4	16QAM	1	5	22.69	22.54	22.47	22.69	22.54	22.47
1.4	16QAM	3	0	22.47	22.37	22.44	22.47	22.37	22.44
1.4	16QAM	3	1	22.44	22.33	22.40	22.44	22.33	22.40
1.4	16QAM	3	3	22.43	22.27	22.35	22.43	22.27	22.35
1.4	16QAM	6	0	21.49	21.39	21.56	21.49	21.39	21.56
1.4	64QAM	1	0	21.49	21.45	21.59	21.49	21.45	21.59
1.4	64QAM	1	3	21.58	21.52	21.63	21.58	21.52	21.63
1.4	64QAM	1	5	21.54	21.49	21.49	21.54	21.49	21.49
1.4	64QAM	3	0	21.57	21.40	21.55	21.57	21.40	21.55
1.4	64QAM	3	1	21.54	21.42	21.54	21.54	21.42	21.54
1.4	64QAM	3	3	21.53	21.39	21.47	21.53	21.39	21.47
1.4	64QAM	6	0	20.41	20.32	20.46	20.41	20.32	20.46



<WiFi on>

Power Selection				Head					
Transmit Antenna				UAT			LAT		
Max. Power				20.5			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	20.15	20.11	20.02	23.23	23.03	23.01
20	QPSK	1	49	20.11	20.06	20.01	23.10	23.18	23.07
20	QPSK	1	99	20.12	20.05	20.00	23.11	23.10	23.10
20	QPSK	50	0	20.14	20.04	20.02	22.23	22.06	22.04
20	QPSK	50	24	20.06	20.02	20.00	22.14	22.04	22.01
20	QPSK	50	50	20.04	20.01	20.01	22.04	22.02	22.02
20	QPSK	100	0	20.08	20.02	20.00	22.15	22.08	22.03
20	16QAM	1	0	20.13	20.02	19.97	22.61	22.27	22.21
20	16QAM	1	49	20.01	20.03	19.98	22.26	22.07	22.05
20	16QAM	1	99	20.03	20.09	19.98	22.22	22.16	22.09
20	16QAM	50	0	20.13	19.91	19.96	21.22	21.02	21.02
20	16QAM	50	24	20.03	19.96	19.98	21.17	21.10	20.88
20	16QAM	50	50	19.98	19.96	19.97	21.10	21.02	21.02
20	16QAM	100	0	20.02	19.98	19.99	21.17	21.08	21.11
20	64QAM	1	0	20.10	19.97	19.98	21.43	21.35	21.29
20	64QAM	1	49	20.08	20.01	19.99	21.20	21.03	21.05
20	64QAM	1	99	20.06	20.05	20.01	21.17	21.08	21.02
20	64QAM	50	0	20.05	20.01	19.90	20.24	20.04	20.01
20	64QAM	50	24	20.03	19.87	19.96	20.15	20.10	19.89
20	64QAM	50	50	19.96	19.94	19.90	20.08	19.99	19.80
20	64QAM	100	0	19.98	19.92	19.93	20.15	20.09	19.91
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	20.05	20.03	19.95	23.14	22.99	22.94
15	QPSK	1	37	20.02	19.98	20.02	22.96	22.89	22.67
15	QPSK	1	74	20.03	20.10	19.99	23.01	22.81	22.76
15	QPSK	36	0	20.08	20.01	19.93	22.15	21.96	21.88
15	QPSK	36	20	20.01	19.98	19.96	22.11	22.01	21.79
15	QPSK	36	39	20.01	20.00	20.01	22.07	21.95	21.73
15	QPSK	75	0	20.02	19.95	19.95	22.10	21.95	21.76
15	16QAM	1	0	20.10	20.01	19.95	22.64	22.27	22.28
15	16QAM	1	37	20.01	19.96	19.91	22.32	22.18	21.90
15	16QAM	1	74	20.03	20.06	19.92	22.33	22.16	22.24
15	16QAM	36	0	20.05	19.89	19.89	21.25	21.01	20.93
15	16QAM	36	20	19.98	19.94	19.88	21.20	21.12	20.90
15	16QAM	36	39	19.88	19.89	19.89	21.15	21.05	20.79
15	16QAM	75	0	20.02	19.96	19.97	21.21	21.09	20.86
15	64QAM	1	0	20.01	19.88	19.90	21.45	21.35	21.25
15	64QAM	1	37	20.08	19.99	19.94	21.31	21.20	21.04
15	64QAM	1	74	20.05	19.99	19.99	21.25	21.13	21.01
15	64QAM	36	0	20.01	19.96	19.85	20.30	20.05	20.02
15	64QAM	36	20	19.96	19.77	19.96	20.23	20.12	19.97
15	64QAM	36	39	19.89	19.84	19.80	20.17	20.10	19.87
15	64QAM	75	0	19.96	19.85	19.86	20.20	20.07	19.88
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	20.08	20.01	19.97	23.09	22.88	22.79
10	QPSK	1	25	20.07	20.00	19.94	23.00	22.88	22.83
10	QPSK	1	49	20.10	20.07	19.94	22.99	22.77	22.74
10	QPSK	25	0	20.08	19.99	19.99	22.11	21.86	21.82
10	QPSK	25	12	20.00	19.94	19.94	22.11	22.00	21.75
10	QPSK	25	25	19.97	19.99	19.92	22.06	21.93	21.83
10	QPSK	50	0	20.07	20.02	19.91	22.08	21.96	21.76
10	16QAM	1	0	20.11	20.02	19.92	22.47	22.15	22.16
10	16QAM	1	25	19.98	19.99	19.98	22.46	22.20	22.19
10	16QAM	1	49	19.98	20.04	19.97	22.40	22.07	21.99
10	16QAM	25	0	20.13	19.87	19.88	21.24	20.96	20.90
10	16QAM	25	12	20.03	19.86	19.91	21.21	21.07	20.87
10	16QAM	25	25	19.89	19.95	19.96	21.15	21.04	20.91
10	16QAM	50	0	19.94	19.95	19.94	21.16	21.09	20.86
10	64QAM	1	0	20.05	19.88	19.92	21.41	21.10	21.08



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10	64QAM	1	25	20.01	20.01	19.99	21.29	21.23	21.13
10	64QAM	1	49	20.00	20.05	19.92	21.20	21.00	21.05
10	64QAM	25	0	19.99	19.91	19.86	20.21	20.02	19.91
10	64QAM	25	12	19.95	19.86	19.93	20.22	20.08	19.85
10	64QAM	25	25	19.94	19.94	19.90	20.15	20.04	19.91
10	64QAM	50	0	19.90	19.89	19.89	20.20	20.06	19.86
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	20.09	20.01	19.96	23.08	22.88	22.81
5	QPSK	1	12	20.04	20.02	19.94	23.06	22.88	22.79
5	QPSK	1	24	20.02	20.02	19.99	23.05	22.85	22.76
5	QPSK	12	0	20.14	19.92	20.00	22.12	21.83	21.82
5	QPSK	12	7	20.00	20.01	19.98	22.11	21.96	21.81
5	QPSK	12	13	19.94	19.94	19.92	22.02	21.89	21.78
5	QPSK	25	0	19.98	20.00	19.94	22.07	21.91	21.80
5	16QAM	1	0	20.08	20.00	19.91	22.43	22.13	22.10
5	16QAM	1	12	19.95	19.96	19.91	22.33	22.24	22.08
5	16QAM	1	24	19.95	20.00	19.92	22.40	22.19	22.01
5	16QAM	12	0	20.12	19.91	19.94	21.24	20.94	20.91
5	16QAM	12	7	20.02	19.94	19.95	21.21	21.05	20.93
5	16QAM	12	13	19.91	19.86	19.93	21.21	21.06	20.90
5	16QAM	25	0	19.99	19.88	19.94	21.20	21.04	20.90
5	64QAM	1	0	20.03	19.96	19.94	21.36	21.12	21.08
5	64QAM	1	12	19.98	19.92	19.95	21.30	20.97	21.07
5	64QAM	1	24	19.96	19.99	19.92	21.26	20.98	21.04
5	64QAM	12	0	20.05	19.95	19.87	19.96	19.98	19.92
5	64QAM	12	7	19.96	19.85	19.88	19.93	20.12	19.93
5	64QAM	12	13	19.87	19.90	19.88	20.01	20.09	19.94
5	64QAM	25	0	19.89	19.82	19.93	19.98	20.10	19.91
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	20.10	20.01	20.01	23.07	22.80	22.78
3	QPSK	1	8	20.04	20.05	19.99	23.00	22.87	22.79
3	QPSK	1	14	20.07	20.04	20.00	22.99	22.83	22.72
3	QPSK	8	0	20.07	19.92	20.01	22.10	21.94	21.75
3	QPSK	8	4	20.04	20.00	20.00	22.10	21.94	21.78
3	QPSK	8	7	20.02	19.94	19.92	22.03	21.94	21.80
3	QPSK	15	0	20.06	19.93	19.96	22.08	21.97	21.80
3	16QAM	1	0	20.05	19.95	19.87	22.43	22.08	22.19
3	16QAM	1	8	19.94	19.94	19.91	22.32	22.23	22.13
3	16QAM	1	14	20.02	20.06	19.88	22.33	22.19	22.01
3	16QAM	8	0	20.03	19.91	19.92	21.24	21.06	20.94
3	16QAM	8	4	19.94	19.88	19.98	21.29	21.15	21.00
3	16QAM	8	7	19.95	19.92	19.89	21.23	21.09	20.94
3	16QAM	15	0	19.95	19.95	19.96	21.20	21.03	20.91
3	64QAM	1	0	20.00	19.92	19.91	21.31	21.08	20.98
3	64QAM	1	8	19.98	19.93	19.93	21.34	21.21	21.04
3	64QAM	1	14	20.05	20.03	19.91	21.30	21.17	20.99
3	64QAM	8	0	20.02	19.98	19.89	20.22	20.10	19.90
3	64QAM	8	4	19.98	19.81	19.95	20.29	20.10	19.94
3	64QAM	8	7	19.88	19.87	19.87	20.19	20.09	19.93
3	64QAM	15	0	19.94	19.92	19.91	20.18	20.01	19.87
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	20.10	20.02	19.92	23.21	23.16	23.18
1.4	QPSK	1	3	20.09	20.01	19.94	23.20	23.20	23.22
1.4	QPSK	1	5	20.12	20.01	19.96	23.18	23.18	23.21
1.4	QPSK	3	0	20.11	19.91	19.94	23.20	23.20	23.15
1.4	QPSK	3	1	19.97	20.00	19.92	23.15	23.18	23.20
1.4	QPSK	3	3	19.98	20.00	19.95	23.20	23.20	23.19
1.4	QPSK	6	0	20.04	20.00	19.93	22.33	22.24	22.40
1.4	16QAM	1	0	20.10	19.94	19.89	22.62	22.58	22.58
1.4	16QAM	1	3	20.01	19.96	19.98	22.62	22.56	22.72
1.4	16QAM	1	5	20.00	20.01	19.96	22.69	22.54	22.47
1.4	16QAM	3	0	20.12	19.82	19.90	22.47	22.37	22.44
1.4	16QAM	3	1	19.99	19.95	19.95	22.44	22.33	22.40
1.4	16QAM	3	3	19.98	19.90	19.96	22.43	22.27	22.35
1.4	16QAM	6	0	19.95	19.94	19.93	21.49	21.39	21.56
1.4	64QAM	1	0	20.07	19.94	19.98	21.49	21.45	21.59
1.4	64QAM	1	3	20.02	19.96	19.99	21.58	21.52	21.63



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1.4	64QAM	1	5	20.04	20.00	19.96	21.54	21.49	21.49
1.4	64QAM	3	0	19.96	19.93	19.90	21.57	21.40	21.55
1.4	64QAM	3	1	19.95	19.87	19.96	21.54	21.42	21.54
1.4	64QAM	3	3	19.93	19.92	19.89	21.53	21.39	21.47
1.4	64QAM	6	0	19.95	19.86	19.89	20.41	20.32	20.46

Power Selection				Hotspot					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			22.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.23	23.03	23.01	22.27	22.06	22.03
20	QPSK	1	49	23.10	23.18	23.07	22.11	22.04	22.00
20	QPSK	1	99	23.11	23.10	23.10	22.00	22.01	22.02
20	QPSK	50	0	22.23	22.06	22.04	22.07	22.05	22.01
20	QPSK	50	24	22.14	22.04	22.01	22.05	22.03	22.01
20	QPSK	50	50	22.04	22.02	22.02	22.02	22.02	22.00
20	QPSK	100	0	22.15	22.08	22.03	22.02	22.01	22.00
20	16QAM	1	0	22.61	22.27	22.21	22.03	22.00	21.95
20	16QAM	1	49	22.26	22.07	22.05	21.97	21.91	21.82
20	16QAM	1	99	22.22	22.16	22.09	21.95	22.05	21.88
20	16QAM	50	0	21.22	21.02	21.02	22.03	21.81	21.87
20	16QAM	50	24	21.17	21.10	20.88	21.90	21.94	21.80
20	16QAM	50	50	21.10	21.02	21.02	21.82	21.87	21.82
20	16QAM	100	0	21.17	21.08	21.11	21.98	21.92	21.88
20	64QAM	1	0	21.43	21.35	21.29	21.98	21.78	21.85
20	64QAM	1	49	21.20	21.03	21.05	22.01	21.99	21.88
20	64QAM	1	99	21.17	21.08	21.02	22.04	21.96	21.99
20	64QAM	50	0	20.24	20.04	20.01	22.00	21.95	21.85
20	64QAM	50	24	20.15	20.10	19.89	21.94	21.73	21.88
20	64QAM	50	50	20.08	19.99	19.80	21.82	21.80	21.74
20	64QAM	100	0	20.15	20.09	19.91	21.89	21.84	21.79
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.14	22.99	22.94	22.22	22.03	21.98
15	QPSK	1	37	22.96	22.89	22.67	22.01	22.03	22.00
15	QPSK	1	74	23.01	22.81	22.76	21.98	21.91	22.01
15	QPSK	36	0	22.15	21.96	21.88	22.06	21.96	21.97
15	QPSK	36	20	22.11	22.01	21.79	21.96	22.00	21.92
15	QPSK	36	39	22.07	21.95	21.73	21.95	22.01	22.00
15	QPSK	75	0	22.10	21.95	21.76	22.02	22.01	21.91
15	16QAM	1	0	22.64	22.27	22.28	21.97	22.00	21.89
15	16QAM	1	37	22.32	22.18	21.90	21.93	21.82	21.78
15	16QAM	1	74	22.33	22.16	22.24	21.89	22.00	21.85
15	16QAM	36	0	21.25	21.01	20.93	22.00	21.76	21.87
15	16QAM	36	20	21.20	21.12	20.90	21.89	21.93	21.73
15	16QAM	36	39	21.15	21.05	20.79	21.76	21.79	21.76
15	16QAM	75	0	21.21	21.09	20.86	21.96	21.85	21.81
15	64QAM	1	0	21.45	21.35	21.25	21.94	21.68	21.85
15	64QAM	1	37	21.31	21.20	21.04	21.99	21.94	21.79
15	64QAM	1	74	21.25	21.13	21.01	21.94	21.90	21.96
15	64QAM	36	0	20.30	20.05	20.02	21.92	21.95	21.80
15	64QAM	36	20	20.23	20.12	19.97	21.84	21.63	21.81
15	64QAM	36	39	20.17	20.10	19.87	21.82	21.79	21.67
15	64QAM	75	0	20.20	20.07	19.88	21.82	21.76	21.73
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.09	22.88	22.79	22.20	22.02	21.99
10	QPSK	1	25	23.00	22.88	22.83	22.03	21.99	21.99
10	QPSK	1	49	22.99	22.77	22.74	21.99	21.91	21.98
10	QPSK	25	0	22.11	21.86	21.82	22.06	22.05	22.00
10	QPSK	25	12	22.11	22.00	21.75	21.99	21.97	21.94
10	QPSK	25	25	22.06	21.93	21.83	21.93	21.97	21.97
10	QPSK	50	0	22.08	21.96	21.76	22.00	21.99	21.99
10	16QAM	1	0	22.47	22.15	22.16	21.95	21.94	21.87
10	16QAM	1	25	22.46	22.20	22.19	21.95	21.82	21.74
10	16QAM	1	49	22.40	22.07	21.99	21.95	21.98	21.88



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10	16QAM	25	0	21.24	20.96	20.90	22.02	21.76	21.84
10	16QAM	25	12	21.21	21.07	20.87	21.84	21.88	21.77
10	16QAM	25	25	21.15	21.04	20.91	21.81	21.82	21.73
10	16QAM	50	0	21.16	21.09	20.86	21.88	21.82	21.83
10	64QAM	1	0	21.41	21.10	21.08	21.98	21.68	21.80
10	64QAM	1	25	21.29	21.23	21.13	21.94	21.92	21.79
10	64QAM	1	49	21.20	21.00	21.05	22.04	21.93	21.92
10	64QAM	25	0	20.21	20.02	19.91	21.98	21.95	21.84
10	64QAM	25	12	20.22	20.08	19.85	21.91	21.70	21.84
10	64QAM	25	25	20.15	20.04	19.91	21.73	21.76	21.74
10	64QAM	50	0	20.20	20.06	19.86	21.87	21.79	21.71
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.08	22.88	22.81	22.24	21.98	21.96
5	QPSK	1	12	23.06	22.88	22.79	22.03	22.01	21.94
5	QPSK	1	24	23.05	22.85	22.76	21.91	21.94	21.97
5	QPSK	12	0	22.12	21.83	21.82	22.03	22.01	21.95
5	QPSK	12	7	22.11	21.96	21.81	21.96	21.94	21.99
5	QPSK	12	13	22.02	21.89	21.78	21.95	21.93	21.93
5	QPSK	25	0	22.07	21.91	21.80	21.92	21.95	21.90
5	16QAM	1	0	22.43	22.13	22.10	21.99	21.90	21.88
5	16QAM	1	12	22.33	22.24	22.08	21.87	21.91	21.73
5	16QAM	1	24	22.40	22.19	22.01	21.93	22.05	21.81
5	16QAM	12	0	21.24	20.94	20.91	21.97	21.77	21.87
5	16QAM	12	7	21.21	21.05	20.93	21.82	21.85	21.71
5	16QAM	12	13	21.21	21.06	20.90	21.81	21.78	21.82
5	16QAM	25	0	21.20	21.04	20.90	21.94	21.90	21.82
5	64QAM	1	0	21.36	21.12	21.08	21.96	21.69	21.78
5	64QAM	1	12	21.30	20.97	21.07	21.93	21.92	21.82
5	64QAM	1	24	21.26	20.98	21.04	22.03	21.92	21.97
5	64QAM	12	0	19.96	19.98	19.92	21.94	21.90	21.85
5	64QAM	12	7	19.93	20.12	19.93	21.93	21.73	21.85
5	64QAM	12	13	20.01	20.09	19.94	21.76	21.80	21.73
5	64QAM	25	0	19.98	20.10	19.91	21.89	21.84	21.73
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.07	22.80	22.78	22.18	22.03	22.02
3	QPSK	1	8	23.00	22.87	22.79	22.11	21.97	21.92
3	QPSK	1	14	22.99	22.83	22.72	21.93	21.98	21.93
3	QPSK	8	0	22.10	21.94	21.75	22.01	21.97	21.99
3	QPSK	8	4	22.10	21.94	21.78	22.05	22.00	21.97
3	QPSK	8	7	22.03	21.94	21.80	21.95	21.92	21.93
3	QPSK	15	0	22.08	21.97	21.80	22.01	22.00	21.97
3	16QAM	1	0	22.43	22.08	22.19	21.95	21.95	21.95
3	16QAM	1	8	22.32	22.23	22.13	21.91	21.87	21.75
3	16QAM	1	14	22.33	22.19	22.01	21.92	21.99	21.79
3	16QAM	8	0	21.24	21.06	20.94	22.02	21.74	21.79
3	16QAM	8	4	21.29	21.15	21.00	21.87	21.92	21.77
3	16QAM	8	7	21.23	21.09	20.94	21.82	21.82	21.78
3	16QAM	15	0	21.20	21.03	20.91	21.92	21.88	21.80
3	64QAM	1	0	21.31	21.08	20.98	21.90	21.77	21.82
3	64QAM	1	8	21.34	21.21	21.04	21.97	21.95	21.79
3	64QAM	1	14	21.30	21.17	20.99	21.96	21.95	21.98
3	64QAM	8	0	20.22	20.10	19.90	21.91	21.85	21.85
3	64QAM	8	4	20.29	20.10	19.94	21.91	21.69	21.86
3	64QAM	8	7	20.19	20.09	19.93	21.80	21.79	21.72
3	64QAM	15	0	20.18	20.01	19.87	21.82	21.79	21.72
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.21	23.16	23.18	22.21	21.97	22.00
1.4	QPSK	1	3	23.20	23.20	23.22	22.05	21.96	21.94
1.4	QPSK	1	5	23.18	23.18	23.21	21.96	21.94	21.93
1.4	QPSK	3	0	23.20	23.20	23.15	22.06	21.95	21.96
1.4	QPSK	3	1	23.15	23.18	23.20	22.05	21.97	21.92
1.4	QPSK	3	3	23.20	23.20	23.19	21.97	21.97	21.94
1.4	QPSK	6	0	22.33	22.24	22.40	22.00	22.01	21.95
1.4	16QAM	1	0	22.62	22.58	22.58	21.93	22.00	21.86
1.4	16QAM	1	3	22.62	22.56	22.72	21.93	21.83	21.81
1.4	16QAM	1	5	22.69	22.54	22.47	21.90	21.99	21.80
1.4	16QAM	3	0	22.47	22.37	22.44	21.96	21.77	21.86



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1.4	16QAM	3	1	22.44	22.33	22.40	21.81	21.86	21.72
1.4	16QAM	3	3	22.43	22.27	22.35	21.79	21.81	21.77
1.4	16QAM	6	0	21.49	21.39	21.56	21.90	21.90	21.88
1.4	64QAM	1	0	21.49	21.45	21.59	21.98	21.77	21.78
1.4	64QAM	1	3	21.58	21.52	21.63	21.94	21.97	21.84
1.4	64QAM	1	5	21.54	21.49	21.49	22.01	21.89	21.97
1.4	64QAM	3	0	21.57	21.40	21.55	21.90	21.88	21.81
1.4	64QAM	3	1	21.54	21.42	21.54	21.93	21.72	21.83
1.4	64QAM	3	3	21.53	21.39	21.47	21.74	21.71	21.65
1.4	64QAM	6	0	20.41	20.32	20.46	21.87	21.76	21.71

Power Selection				Body-worn / Product Specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.0			24.0		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572	132072	132322	132572
Frequency (MHz)				1720	1745	1770	1720	1745	1770
20	QPSK	1	0	23.23	23.03	23.01	23.23	23.03	23.01
20	QPSK	1	49	23.10	23.18	23.07	23.10	23.18	23.07
20	QPSK	1	99	23.11	23.10	23.10	23.11	23.10	23.10
20	QPSK	50	0	22.23	22.06	22.04	22.23	22.06	22.04
20	QPSK	50	24	22.14	22.04	22.01	22.14	22.04	22.01
20	QPSK	50	50	22.04	22.02	22.02	22.04	22.02	22.02
20	QPSK	100	0	22.15	22.08	22.03	22.15	22.08	22.03
20	16QAM	1	0	22.61	22.27	22.21	22.61	22.27	22.21
20	16QAM	1	49	22.26	22.07	22.05	22.26	22.07	22.05
20	16QAM	1	99	22.22	22.16	22.09	22.22	22.16	22.09
20	16QAM	50	0	21.22	21.02	21.02	21.22	21.02	21.02
20	16QAM	50	24	21.17	21.10	20.88	21.17	21.10	20.88
20	16QAM	50	50	21.10	21.02	21.02	21.10	21.02	21.02
20	16QAM	100	0	21.17	21.08	21.11	21.17	21.08	21.11
20	64QAM	1	0	21.43	21.35	21.29	21.43	21.35	21.29
20	64QAM	1	49	21.20	21.03	21.05	21.20	21.03	21.05
20	64QAM	1	99	21.17	21.08	21.02	21.17	21.08	21.02
20	64QAM	50	0	20.24	20.04	20.01	20.24	20.04	20.01
20	64QAM	50	24	20.15	20.10	19.89	20.15	20.10	19.89
20	64QAM	50	50	20.08	19.99	19.80	20.08	19.99	19.80
20	64QAM	100	0	20.15	20.09	19.91	20.15	20.09	19.91
Channel				132047	132322	132597	132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5	1717.5	1745	1772.5
15	QPSK	1	0	23.14	22.99	22.94	23.14	22.99	22.94
15	QPSK	1	37	22.96	22.89	22.67	22.96	22.89	22.67
15	QPSK	1	74	23.01	22.81	22.76	23.01	22.81	22.76
15	QPSK	36	0	22.15	21.96	21.88	22.15	21.96	21.88
15	QPSK	36	20	22.11	22.01	21.79	22.11	22.01	21.79
15	QPSK	36	39	22.07	21.95	21.73	22.07	21.95	21.73
15	QPSK	75	0	22.10	21.95	21.76	22.10	21.95	21.76
15	16QAM	1	0	22.64	22.27	22.28	22.64	22.27	22.28
15	16QAM	1	37	22.32	22.18	21.90	22.32	22.18	21.90
15	16QAM	1	74	22.33	22.16	22.24	22.33	22.16	22.24
15	16QAM	36	0	21.25	21.01	20.93	21.25	21.01	20.93
15	16QAM	36	20	21.20	21.12	20.90	21.20	21.12	20.90
15	16QAM	36	39	21.15	21.05	20.79	21.15	21.05	20.79
15	16QAM	75	0	21.21	21.09	20.86	21.21	21.09	20.86
15	64QAM	1	0	21.45	21.35	21.25	21.45	21.35	21.25
15	64QAM	1	37	21.31	21.20	21.04	21.31	21.20	21.04
15	64QAM	1	74	21.25	21.13	21.01	21.25	21.13	21.01
15	64QAM	36	0	20.30	20.05	20.02	20.30	20.05	20.02
15	64QAM	36	20	20.23	20.12	19.97	20.23	20.12	19.97
15	64QAM	36	39	20.17	20.10	19.87	20.17	20.10	19.87
15	64QAM	75	0	20.20	20.07	19.88	20.20	20.07	19.88
Channel				132022	132322	132622	132022	132322	132622
Frequency (MHz)				1715	1745	1775	1715	1745	1775
10	QPSK	1	0	23.09	22.88	22.79	23.09	22.88	22.79
10	QPSK	1	25	23.00	22.88	22.83	23.00	22.88	22.83
10	QPSK	1	49	22.99	22.77	22.74	22.99	22.77	22.74
10	QPSK	25	0	22.11	21.86	21.82	22.11	21.86	21.82
10	QPSK	25	12	22.11	22.00	21.75	22.11	22.00	21.75



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10	QPSK	25	25	22.06	21.93	21.83	22.06	21.93	21.83
10	QPSK	50	0	22.08	21.96	21.76	22.08	21.96	21.76
10	16QAM	1	0	22.47	22.15	22.16	22.47	22.15	22.16
10	16QAM	1	25	22.46	22.20	22.19	22.46	22.20	22.19
10	16QAM	1	49	22.40	22.07	21.99	22.40	22.07	21.99
10	16QAM	25	0	21.24	20.96	20.90	21.24	20.96	20.90
10	16QAM	25	12	21.21	21.07	20.87	21.21	21.07	20.87
10	16QAM	25	25	21.15	21.04	20.91	21.15	21.04	20.91
10	16QAM	50	0	21.16	21.09	20.86	21.16	21.09	20.86
10	64QAM	1	0	21.41	21.10	21.08	21.41	21.10	21.08
10	64QAM	1	25	21.29	21.23	21.13	21.29	21.23	21.13
10	64QAM	1	49	21.20	21.00	21.05	21.20	21.00	21.05
10	64QAM	25	0	20.21	20.02	19.91	20.21	20.02	19.91
10	64QAM	25	12	20.22	20.08	19.85	20.22	20.08	19.85
10	64QAM	25	25	20.15	20.04	19.91	20.15	20.04	19.91
10	64QAM	50	0	20.20	20.06	19.86	20.20	20.06	19.86
Channel				131997	132322	132647	131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5	1712.5	1745	1777.5
5	QPSK	1	0	23.08	22.88	22.81	23.08	22.88	22.81
5	QPSK	1	12	23.06	22.88	22.79	23.06	22.88	22.79
5	QPSK	1	24	23.05	22.85	22.76	23.05	22.85	22.76
5	QPSK	12	0	22.12	21.83	21.82	22.12	21.83	21.82
5	QPSK	12	7	22.11	21.96	21.81	22.11	21.96	21.81
5	QPSK	12	13	22.02	21.89	21.78	22.02	21.89	21.78
5	QPSK	25	0	22.07	21.91	21.80	22.07	21.91	21.80
5	16QAM	1	0	22.43	22.13	22.10	22.43	22.13	22.10
5	16QAM	1	12	22.33	22.24	22.08	22.33	22.24	22.08
5	16QAM	1	24	22.40	22.19	22.01	22.40	22.19	22.01
5	16QAM	12	0	21.24	20.94	20.91	21.24	20.94	20.91
5	16QAM	12	7	21.21	21.05	20.93	21.21	21.05	20.93
5	16QAM	12	13	21.21	21.06	20.90	21.21	21.06	20.90
5	16QAM	25	0	21.20	21.04	20.90	21.20	21.04	20.90
5	64QAM	1	0	21.36	21.12	21.08	21.36	21.12	21.08
5	64QAM	1	12	21.30	20.97	21.07	21.30	20.97	21.07
5	64QAM	1	24	21.26	20.98	21.04	21.26	20.98	21.04
5	64QAM	12	0	19.96	19.98	19.92	19.96	19.98	19.92
5	64QAM	12	7	19.93	20.12	19.93	19.93	20.12	19.93
5	64QAM	12	13	20.01	20.09	19.94	20.01	20.09	19.94
5	64QAM	25	0	19.98	20.10	19.91	19.98	20.10	19.91
Channel				131987	132322	132657	131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5	1711.5	1745	1778.5
3	QPSK	1	0	23.07	22.80	22.78	23.07	22.80	22.78
3	QPSK	1	8	23.00	22.87	22.79	23.00	22.87	22.79
3	QPSK	1	14	22.99	22.83	22.72	22.99	22.83	22.72
3	QPSK	8	0	22.10	21.94	21.75	22.10	21.94	21.75
3	QPSK	8	4	22.10	21.94	21.78	22.10	21.94	21.78
3	QPSK	8	7	22.03	21.94	21.80	22.03	21.94	21.80
3	QPSK	15	0	22.08	21.97	21.80	22.08	21.97	21.80
3	16QAM	1	0	22.43	22.08	22.19	22.43	22.08	22.19
3	16QAM	1	8	22.32	22.23	22.13	22.32	22.23	22.13
3	16QAM	1	14	22.33	22.19	22.01	22.33	22.19	22.01
3	16QAM	8	0	21.24	21.06	20.94	21.24	21.06	20.94
3	16QAM	8	4	21.29	21.15	21.00	21.29	21.15	21.00
3	16QAM	8	7	21.23	21.09	20.94	21.23	21.09	20.94
3	16QAM	15	0	21.20	21.03	20.91	21.20	21.03	20.91
3	64QAM	1	0	21.31	21.08	20.98	21.31	21.08	20.98
3	64QAM	1	8	21.34	21.21	21.04	21.34	21.21	21.04
3	64QAM	1	14	21.30	21.17	20.99	21.30	21.17	20.99
3	64QAM	8	0	20.22	20.10	19.90	20.22	20.10	19.90
3	64QAM	8	4	20.29	20.10	19.94	20.29	20.10	19.94
3	64QAM	8	7	20.19	20.09	19.93	20.19	20.09	19.93
3	64QAM	15	0	20.18	20.01	19.87	20.18	20.01	19.87
Channel				131979	132322	132665	131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3	1710.7	1745	1779.3
1.4	QPSK	1	0	23.21	23.16	23.18	23.21	23.16	23.18
1.4	QPSK	1	3	23.20	23.20	23.22	23.20	23.20	23.22
1.4	QPSK	1	5	23.18	23.18	23.21	23.18	23.18	23.21
1.4	QPSK	3	0	23.20	23.20	23.15	23.20	23.20	23.15
1.4	QPSK	3	1	23.15	23.18	23.20	23.15	23.18	23.20
1.4	QPSK	3	3	23.20	23.20	23.19	23.20	23.20	23.19



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1.4	QPSK	6	0	22.33	22.24	22.40	22.33	22.24	22.40
1.4	16QAM	1	0	22.62	22.58	22.58	22.62	22.58	22.58
1.4	16QAM	1	3	22.62	22.56	22.72	22.62	22.56	22.72
1.4	16QAM	1	5	22.69	22.54	22.47	22.69	22.54	22.47
1.4	16QAM	3	0	22.47	22.37	22.44	22.47	22.37	22.44
1.4	16QAM	3	1	22.44	22.33	22.40	22.44	22.33	22.40
1.4	16QAM	3	3	22.43	22.27	22.35	22.43	22.27	22.35
1.4	16QAM	6	0	21.49	21.39	21.56	21.49	21.39	21.56
1.4	64QAM	1	0	21.49	21.45	21.59	21.49	21.45	21.59
1.4	64QAM	1	3	21.58	21.52	21.63	21.58	21.52	21.63
1.4	64QAM	1	5	21.54	21.49	21.49	21.54	21.49	21.49
1.4	64QAM	3	0	21.57	21.40	21.55	21.57	21.40	21.55
1.4	64QAM	3	1	21.54	21.42	21.54	21.54	21.42	21.54
1.4	64QAM	3	3	21.53	21.39	21.47	21.53	21.39	21.47
1.4	64QAM	6	0	20.41	20.32	20.46	20.41	20.32	20.46



<LTE Band 71>

<WiFi off>

Power Selection				Head / Hotspot / Body-worn / Product specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372	133222	133322	133372
Frequency (MHz)				673	683	688	673	683	688
20	QPSK	1	0	24.47	24.18	24.36	24.47	24.18	24.36
20	QPSK	1	49	23.18	23.05	23.49	23.18	23.05	23.49
20	QPSK	1	99	24.00	24.04	23.91	24.00	24.04	23.91
20	QPSK	50	0	22.59	22.40	22.76	22.59	22.40	22.76
20	QPSK	50	24	22.32	22.19	22.51	22.32	22.19	22.51
20	QPSK	50	50	22.43	22.39	22.75	22.43	22.39	22.75
20	QPSK	100	0	22.51	22.38	22.72	22.51	22.38	22.72
20	16QAM	1	0	23.50	23.46	23.50	23.50	23.46	23.50
20	16QAM	1	49	22.52	22.35	22.73	22.52	22.35	22.73
20	16QAM	1	99	23.40	23.30	23.07	23.40	23.30	23.07
20	16QAM	50	0	21.66	21.52	21.85	21.66	21.52	21.85
20	16QAM	50	24	21.37	21.29	21.67	21.37	21.29	21.67
20	16QAM	50	50	21.51	21.50	21.94	21.51	21.50	21.94
20	16QAM	100	0	21.58	21.45	21.80	21.58	21.45	21.80
20	64QAM	1	0	22.39	22.44	22.49	22.39	22.44	22.49
20	64QAM	1	49	21.42	21.33	21.68	21.42	21.33	21.68
20	64QAM	1	99	22.31	22.15	22.31	22.31	22.15	22.31
20	64QAM	50	0	20.69	20.47	20.84	20.69	20.47	20.84
20	64QAM	50	24	20.33	20.18	20.60	20.33	20.18	20.60
20	64QAM	50	50	20.60	20.51	20.94	20.60	20.51	20.94
20	64QAM	100	0	20.59	20.49	20.80	20.59	20.49	20.80
Channel				133197	133297	133397	133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5	670.5	680.5	690.5
15	QPSK	1	0	23.41	23.18	23.12	23.41	23.18	23.12
15	QPSK	1	37	22.70	22.52	22.62	22.70	22.52	22.62
15	QPSK	1	74	22.98	23.00	22.78	22.98	23.00	22.78
15	QPSK	36	0	22.04	21.77	21.84	22.04	21.77	21.84
15	QPSK	36	20	21.72	21.63	21.77	21.72	21.63	21.77
15	QPSK	36	39	21.75	21.76	21.87	21.75	21.76	21.87
15	QPSK	75	0	21.78	21.69	21.85	21.78	21.69	21.85
15	16QAM	1	0	22.67	22.48	22.43	22.67	22.48	22.43
15	16QAM	1	37	22.04	21.83	22.08	22.04	21.83	22.08
15	16QAM	1	74	22.31	22.31	22.50	22.31	22.31	22.50
15	16QAM	36	0	21.08	20.92	20.94	21.08	20.92	20.94
15	16QAM	36	20	20.84	20.70	20.86	20.84	20.70	20.86
15	16QAM	36	39	20.83	20.84	20.90	20.83	20.84	20.90
15	16QAM	75	0	20.88	20.93	20.92	20.88	20.93	20.92
15	64QAM	1	0	21.51	21.44	21.32	21.51	21.44	21.32
15	64QAM	1	37	20.89	20.77	20.98	20.89	20.77	20.98
15	64QAM	1	74	21.21	21.32	20.86	21.21	21.32	20.86
15	64QAM	36	0	20.12	19.88	20.00	20.12	19.88	20.00
15	64QAM	36	20	19.80	19.73	19.89	19.80	19.73	19.89
15	64QAM	36	39	19.90	19.85	19.99	19.90	19.85	19.99
15	64QAM	75	0	19.92	19.75	19.95	19.92	19.75	19.95
Channel				133172	133272	133422	133172	133272	133422
Frequency (MHz)				668	678	693	668	678	693
10	QPSK	1	0	22.80	22.64	22.70	22.80	22.64	22.70
10	QPSK	1	25	22.75	22.47	22.66	22.75	22.47	22.66
10	QPSK	1	49	22.57	22.61	22.73	22.57	22.61	22.73
10	QPSK	25	0	21.84	21.54	21.66	21.84	21.54	21.66
10	QPSK	25	12	21.76	21.54	21.72	21.76	21.54	21.72
10	QPSK	25	25	21.62	21.44	21.68	21.62	21.44	21.68
10	QPSK	50	0	21.68	21.51	21.68	21.68	21.51	21.68
10	16QAM	1	0	22.17	21.93	22.09	22.17	21.93	22.09
10	16QAM	1	25	21.97	21.77	22.02	21.97	21.77	22.02
10	16QAM	1	49	21.83	21.99	22.03	21.83	21.99	22.03
10	16QAM	25	0	20.99	20.65	20.80	20.99	20.65	20.80
10	16QAM	25	12	20.90	20.71	20.80	20.90	20.71	20.80
10	16QAM	25	25	20.72	20.52	20.84	20.72	20.52	20.84



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10	16QAM	50	0	20.79	20.57	20.79	20.79	20.57	20.79
10	64QAM	1	0	21.07	20.88	20.99	21.07	20.88	20.99
10	64QAM	1	25	21.01	20.78	20.90	21.01	20.78	20.90
10	64QAM	1	49	20.81	20.84	21.12	20.81	20.84	21.12
10	64QAM	25	0	19.90	19.76	19.81	19.90	19.76	19.81
10	64QAM	25	12	19.85	19.71	19.82	19.85	19.71	19.82
10	64QAM	25	25	19.68	19.53	19.85	19.68	19.53	19.85
10	64QAM	50	0	19.75	19.69	19.80	19.75	19.69	19.80
Channel				133147	133247	133447	133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5	665.5	675.5	695.5
5	QPSK	1	0	22.67	22.56	22.73	22.67	22.56	22.73
5	QPSK	1	12	22.85	22.47	22.75	22.85	22.47	22.75
5	QPSK	1	24	22.83	22.54	22.79	22.83	22.54	22.79
5	QPSK	12	0	21.86	21.54	21.70	21.86	21.54	21.70
5	QPSK	12	7	21.88	21.52	21.75	21.88	21.52	21.75
5	QPSK	12	13	21.86	21.49	21.70	21.86	21.49	21.70
5	QPSK	25	0	21.88	21.48	21.75	21.88	21.48	21.75
5	16QAM	1	0	22.23	21.88	21.96	22.23	21.88	21.96
5	16QAM	1	12	22.19	21.84	22.02	22.19	21.84	22.02
5	16QAM	1	24	22.10	21.89	22.09	22.10	21.89	22.09
5	16QAM	12	0	21.03	20.68	20.82	21.03	20.68	20.82
5	16QAM	12	7	21.06	20.65	20.87	21.06	20.65	20.87
5	16QAM	12	13	21.02	20.59	20.82	21.02	20.59	20.82
5	16QAM	25	0	20.99	20.60	20.84	20.99	20.60	20.84
5	64QAM	1	0	21.17	20.86	20.90	21.17	20.86	20.90
5	64QAM	1	12	21.13	20.79	20.98	21.13	20.79	20.98
5	64QAM	1	24	21.06	20.85	21.03	21.06	20.85	21.03
5	64QAM	12	0	20.10	19.70	19.84	20.10	19.70	19.84
5	64QAM	12	7	20.00	19.66	19.88	20.00	19.66	19.88
5	64QAM	12	13	19.99	19.62	19.84	19.99	19.62	19.84
5	64QAM	25	0	19.98	19.58	19.88	19.98	19.58	19.88

<Wifi on>

Power Selection				Head / Hotspot / Body-worn / Product specific					
Transmit Antenna				UAT			LAT		
Max. Power				24.5			24.5		
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372	133222	133322	133372
Frequency (MHz)				673	683	688	673	683	688
20	QPSK	1	0	24.47	24.18	24.36	24.47	24.18	24.36
20	QPSK	1	49	23.18	23.05	23.49	23.18	23.05	23.49
20	QPSK	1	99	24.00	24.04	23.91	24.00	24.04	23.91
20	QPSK	50	0	22.59	22.40	22.76	22.59	22.40	22.76
20	QPSK	50	24	22.32	22.19	22.51	22.32	22.19	22.51
20	QPSK	50	50	22.43	22.39	22.75	22.43	22.39	22.75
20	QPSK	100	0	22.51	22.38	22.72	22.51	22.38	22.72
20	16QAM	1	0	23.50	23.46	23.50	23.50	23.46	23.50
20	16QAM	1	49	22.52	22.35	22.73	22.52	22.35	22.73
20	16QAM	1	99	23.40	23.30	23.07	23.40	23.30	23.07
20	16QAM	50	0	21.66	21.52	21.85	21.66	21.52	21.85
20	16QAM	50	24	21.37	21.29	21.67	21.37	21.29	21.67
20	16QAM	50	50	21.51	21.50	21.94	21.51	21.50	21.94
20	16QAM	100	0	21.58	21.45	21.80	21.58	21.45	21.80
20	64QAM	1	0	22.39	22.44	22.49	22.39	22.44	22.49
20	64QAM	1	49	21.42	21.33	21.68	21.42	21.33	21.68
20	64QAM	1	99	22.31	22.15	22.31	22.31	22.15	22.31
20	64QAM	50	0	20.69	20.47	20.84	20.69	20.47	20.84
20	64QAM	50	24	20.33	20.18	20.60	20.33	20.18	20.60
20	64QAM	50	50	20.60	20.51	20.94	20.60	20.51	20.94
20	64QAM	100	0	20.59	20.49	20.80	20.59	20.49	20.80
Channel				133197	133297	133397	133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5	670.5	680.5	690.5
15	QPSK	1	0	23.41	23.18	23.12	23.41	23.18	23.12
15	QPSK	1	37	22.70	22.52	22.62	22.70	22.52	22.62
15	QPSK	1	74	22.98	23.00	22.78	22.98	23.00	22.78
15	QPSK	36	0	22.04	21.77	21.84	22.04	21.77	21.84
15	QPSK	36	20	21.72	21.63	21.77	21.72	21.63	21.77



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15	QPSK	36	39	21.75	21.76	21.87	21.75	21.76	21.87
15	QPSK	75	0	21.78	21.69	21.85	21.78	21.69	21.85
15	16QAM	1	0	22.67	22.48	22.43	22.67	22.48	22.43
15	16QAM	1	37	22.04	21.83	22.08	22.04	21.83	22.08
15	16QAM	1	74	22.31	22.31	22.50	22.31	22.31	22.50
15	16QAM	36	0	21.08	20.92	20.94	21.08	20.92	20.94
15	16QAM	36	20	20.84	20.70	20.86	20.84	20.70	20.86
15	16QAM	36	39	20.83	20.84	20.90	20.83	20.84	20.90
15	16QAM	75	0	20.88	20.93	20.92	20.88	20.93	20.92
15	64QAM	1	0	21.51	21.44	21.32	21.51	21.44	21.32
15	64QAM	1	37	20.89	20.77	20.98	20.89	20.77	20.98
15	64QAM	1	74	21.21	21.32	20.86	21.21	21.32	20.86
15	64QAM	36	0	20.12	19.88	20.00	20.12	19.88	20.00
15	64QAM	36	20	19.80	19.73	19.89	19.80	19.73	19.89
15	64QAM	36	39	19.90	19.85	19.99	19.90	19.85	19.99
15	64QAM	75	0	19.92	19.75	19.95	19.92	19.75	19.95
Channel				133172	133272	133422	133172	133272	133422
Frequency (MHz)				668	678	693	668	678	693
10	QPSK	1	0	22.80	22.64	22.70	22.80	22.64	22.70
10	QPSK	1	25	22.75	22.47	22.66	22.75	22.47	22.66
10	QPSK	1	49	22.57	22.61	22.73	22.57	22.61	22.73
10	QPSK	25	0	21.84	21.54	21.66	21.84	21.54	21.66
10	QPSK	25	12	21.76	21.54	21.72	21.76	21.54	21.72
10	QPSK	25	25	21.62	21.44	21.68	21.62	21.44	21.68
10	QPSK	50	0	21.68	21.51	21.68	21.68	21.51	21.68
10	16QAM	1	0	22.17	21.93	22.09	22.17	21.93	22.09
10	16QAM	1	25	21.97	21.77	22.02	21.97	21.77	22.02
10	16QAM	1	49	21.83	21.99	22.03	21.83	21.99	22.03
10	16QAM	25	0	20.99	20.65	20.80	20.99	20.65	20.80
10	16QAM	25	12	20.90	20.71	20.80	20.90	20.71	20.80
10	16QAM	25	25	20.72	20.52	20.84	20.72	20.52	20.84
10	16QAM	50	0	20.79	20.57	20.79	20.79	20.57	20.79
10	64QAM	1	0	21.07	20.88	20.99	21.07	20.88	20.99
10	64QAM	1	25	21.01	20.78	20.90	21.01	20.78	20.90
10	64QAM	1	49	20.81	20.84	21.12	20.81	20.84	21.12
10	64QAM	25	0	19.90	19.76	19.81	19.90	19.76	19.81
10	64QAM	25	12	19.85	19.71	19.82	19.85	19.71	19.82
10	64QAM	25	25	19.68	19.53	19.85	19.68	19.53	19.85
10	64QAM	50	0	19.75	19.69	19.80	19.75	19.69	19.80
Channel				133147	133247	133447	133147	133247	133447
Frequency (MHz)				665.5	675.5	695.5	665.5	675.5	695.5
5	QPSK	1	0	22.67	22.56	22.73	22.67	22.56	22.73
5	QPSK	1	12	22.85	22.47	22.75	22.85	22.47	22.75
5	QPSK	1	24	22.83	22.54	22.79	22.83	22.54	22.79
5	QPSK	12	0	21.86	21.54	21.70	21.86	21.54	21.70
5	QPSK	12	7	21.88	21.52	21.75	21.88	21.52	21.75
5	QPSK	12	13	21.86	21.49	21.70	21.86	21.49	21.70
5	QPSK	25	0	21.88	21.48	21.75	21.88	21.48	21.75
5	16QAM	1	0	22.23	21.88	21.96	22.23	21.88	21.96
5	16QAM	1	12	22.19	21.84	22.02	22.19	21.84	22.02
5	16QAM	1	24	22.10	21.89	22.09	22.10	21.89	22.09
5	16QAM	12	0	21.03	20.68	20.82	21.03	20.68	20.82
5	16QAM	12	7	21.06	20.65	20.87	21.06	20.65	20.87
5	16QAM	12	13	21.02	20.59	20.82	21.02	20.59	20.82
5	16QAM	25	0	20.99	20.60	20.84	20.99	20.60	20.84
5	64QAM	1	0	21.17	20.86	20.90	21.17	20.86	20.90
5	64QAM	1	12	21.13	20.79	20.98	21.13	20.79	20.98
5	64QAM	1	24	21.06	20.85	21.03	21.06	20.85	21.03
5	64QAM	12	0	20.10	19.70	19.84	20.10	19.70	19.84
5	64QAM	12	7	20.00	19.66	19.88	20.00	19.66	19.88
5	64QAM	12	13	19.99	19.62	19.84	19.99	19.62	19.84
5	64QAM	25	0	19.98	19.58	19.88	19.98	19.58	19.88

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

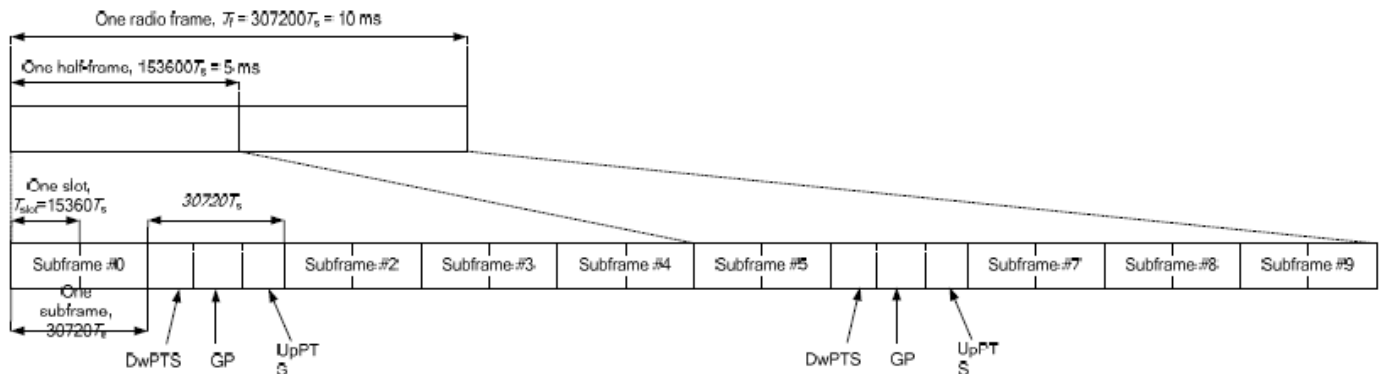


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



<LTE Band 38>

SAR for LTE B38 is covered by LTE B41 due to overlapping frequency range, less or same maximum tune-up limit and the same channel bandwidth

<LTE Band 41 Power Class 3>

<WiFi off>

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				22.0					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	21.17	21.26	21.21	21.27	20.78	24.86	25.19	24.88	25.18	24.31
20	QPSK	1	49	21.09	21.10	20.95	21.12	20.78	24.60	24.77	24.60	24.99	25.08
20	QPSK	1	99	21.11	21.11	21.01	21.15	20.69	24.70	24.60	24.63	24.94	24.13
20	QPSK	50	0	21.10	21.18	20.98	21.20	20.78	23.72	24.18	23.75	24.17	24.16
20	QPSK	50	24	21.06	21.14	20.93	21.13	20.70	23.78	23.84	23.67	24.09	24.15
20	QPSK	50	50	21.03	21.10	20.96	21.19	20.70	23.73	23.74	23.56	23.96	24.12
20	QPSK	100	0	21.06	21.14	21.00	21.13	20.69	23.74	24.19	23.63	24.10	23.85
20	16QAM	1	0	21.04	21.16	21.00	21.20	20.71	24.02	24.11	24.04	24.20	23.57
20	16QAM	1	49	21.05	21.13	20.96	21.11	20.78	23.72	23.90	23.77	24.11	24.15
20	16QAM	1	99	21.09	21.19	20.94	21.14	20.70	23.80	23.75	23.73	24.02	23.28
20	16QAM	50	0	21.12	21.11	20.93	21.15	20.74	22.84	23.07	22.87	23.20	23.18
20	16QAM	50	24	21.10	21.16	20.97	21.12	20.77	22.88	22.96	22.77	23.19	23.15
20	16QAM	50	50	21.11	21.10	20.95	21.18	20.77	22.81	22.83	22.68	23.08	23.02
20	16QAM	100	0	21.12	21.14	20.91	21.18	20.77	22.87	22.93	22.78	23.19	23.11
20	64QAM	1	0	21.13	21.11	21.01	21.20	20.77	22.60	22.71	22.64	23.04	22.16
20	64QAM	1	49	21.03	21.17	20.93	21.14	20.70	22.35	22.52	22.36	22.73	22.96
20	64QAM	1	99	21.08	21.19	20.94	21.15	20.71	22.40	22.39	22.36	22.63	21.88
20	64QAM	50	0	21.07	21.13	21.01	21.12	20.72	21.88	22.06	21.87	22.18	22.17
20	64QAM	50	24	21.13	21.09	21.00	21.15	20.74	21.86	21.95	21.76	22.19	22.18
20	64QAM	50	50	21.03	21.09	20.95	21.11	20.74	21.81	21.83	21.67	22.07	22.14
20	64QAM	100	0	21.04	21.17	21.01	21.12	20.72	21.87	21.93	21.77	22.16	22.07
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	20.96	20.98	20.79	21.04	20.71	24.69	24.70	24.54	24.68	24.48
15	QPSK	1	37	21.03	20.96	20.81	20.95	20.73	24.55	24.56	24.34	24.45	24.34
15	QPSK	1	74	21.03	21.02	20.76	20.98	20.79	24.67	24.48	24.27	24.44	24.30
15	QPSK	36	0	20.93	21.00	20.81	20.95	20.74	23.64	23.63	23.42	23.55	23.41
15	QPSK	36	20	21.03	20.99	20.80	21.05	20.71	23.61	23.57	23.38	23.47	23.30
15	QPSK	36	39	21.00	20.98	20.81	21.05	20.77	23.63	23.46	23.27	23.35	23.36
15	QPSK	75	0	20.97	20.96	20.78	20.98	20.74	23.67	23.58	23.35	23.47	23.32
15	16QAM	1	0	21.01	21.03	20.79	20.99	20.79	23.86	23.90	23.69	23.78	23.62
15	16QAM	1	37	21.01	20.98	20.80	20.96	20.69	23.69	23.68	23.49	23.55	23.45
15	16QAM	1	74	20.99	21.00	20.77	21.03	20.79	23.78	23.57	23.41	23.50	23.39
15	16QAM	36	0	21.01	20.94	20.79	21.03	20.78	22.73	22.71	22.48	22.58	22.46
15	16QAM	36	20	20.95	21.04	20.78	20.95	20.78	22.65	22.66	22.42	22.54	22.34
15	16QAM	36	39	20.95	21.00	20.77	20.97	20.72	22.69	22.53	22.34	22.39	22.43
15	16QAM	75	0	20.96	21.03	20.85	20.98	20.76	22.79	22.67	22.46	22.55	22.43
15	64QAM	1	0	20.94	20.97	20.83	20.99	20.76	22.45	22.50	22.27	22.40	22.20
15	64QAM	1	37	20.97	21.00	20.81	20.96	20.77	22.27	22.28	22.08	22.15	22.08
15	64QAM	1	74	21.03	20.97	20.77	21.05	20.74	22.38	22.17	22.03	22.11	22.03
15	64QAM	36	0	20.94	21.00	20.86	20.99	20.71	21.77	21.73	21.50	21.64	21.51
15	64QAM	36	20	21.01	21.04	20.82	20.95	20.77	21.70	21.68	21.47	21.56	21.40
15	64QAM	36	39	20.97	20.94	20.77	20.99	20.70	21.72	21.55	21.39	21.44	21.47
15	64QAM	75	0	21.00	20.98	20.77	20.98	20.69	21.81	21.69	21.48	21.58	21.47
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	21.03	21.03	20.82	21.02	20.70	24.63	24.68	24.44	24.54	24.56
10	QPSK	1	25	21.01	20.97	20.77	21.00	20.74	24.55	24.57	24.34	24.43	24.42
10	QPSK	1	49	21.03	20.95	20.76	20.98	20.77	24.50	24.48	24.28	24.42	24.47
10	QPSK	25	0	20.97	20.99	20.85	20.96	20.74	23.60	23.60	23.37	23.47	23.42
10	QPSK	25	12	20.97	21.03	20.78	21.02	20.77	23.59	23.57	23.37	23.44	23.47
10	QPSK	25	25	20.99	21.01	20.82	20.98	20.75	23.52	23.51	23.28	23.36	23.45



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10	QPSK	50	0	20.93	21.02	20.76	21.04	20.77	23.58	23.58	23.35	23.44	23.40
10	16QAM	1	0	20.97	20.97	20.81	20.95	20.76	23.79	23.83	23.59	23.67	23.68
10	16QAM	1	25	20.98	20.95	20.85	20.95	20.71	23.70	23.71	23.49	23.55	23.55
10	16QAM	1	49	20.98	20.96	20.85	20.99	20.75	23.63	23.59	23.39	23.50	23.60
10	16QAM	25	0	21.01	20.98	20.80	21.04	20.78	22.72	22.70	22.45	22.57	22.52
10	16QAM	25	12	21.02	20.98	20.86	20.98	20.72	22.69	22.67	22.44	22.55	22.57
10	16QAM	25	25	20.94	21.03	20.76	21.03	20.71	22.63	22.58	22.38	22.43	22.55
10	16QAM	50	0	20.94	21.03	20.82	21.04	20.70	22.70	22.69	22.45	22.56	22.52
10	64QAM	1	0	21.00	21.01	20.78	21.01	20.71	22.39	22.44	22.21	22.30	22.31
10	64QAM	1	25	20.99	20.97	20.82	20.98	20.77	22.32	22.33	22.11	22.17	22.17
10	64QAM	1	49	20.95	20.97	20.81	21.02	20.71	22.26	22.23	22.03	22.14	22.23
10	64QAM	25	0	20.98	20.99	20.86	20.99	20.79	21.80	21.76	21.52	21.62	21.59
10	64QAM	25	12	20.96	21.03	20.85	20.99	20.71	21.76	21.73	21.51	21.61	21.64
10	64QAM	25	25	20.99	20.97	20.79	21.05	20.71	21.69	21.67	21.43	21.50	21.63
10	64QAM	50	0	21.02	20.96	20.78	21.00	20.73	21.69	21.68	21.46	21.55	21.51
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	20.93	20.95	20.83	20.98	20.74	24.60	24.61	24.40	24.46	24.37
5	QPSK	1	12	20.97	20.95	20.85	21.02	20.76	24.58	24.58	24.35	24.42	24.34
5	QPSK	1	24	21.02	20.94	20.80	21.01	20.70	24.50	24.49	24.26	24.42	24.27
5	QPSK	12	0	20.99	21.03	20.77	20.97	20.78	23.64	23.60	23.37	23.48	23.37
5	QPSK	12	7	21.02	21.01	20.78	20.95	20.78	23.62	23.58	23.36	23.45	23.38
5	QPSK	12	13	20.96	20.98	20.78	20.95	20.75	23.59	23.53	23.32	23.39	23.32
5	QPSK	25	0	20.95	21.04	20.84	20.95	20.75	23.57	23.56	23.34	23.39	23.33
5	16QAM	1	0	21.02	20.99	20.85	21.02	20.79	23.72	23.75	23.52	23.57	23.51
5	16QAM	1	12	20.98	21.01	20.83	21.02	20.79	23.72	23.72	23.50	23.54	23.49
5	16QAM	1	24	20.98	20.97	20.86	21.02	20.73	23.69	23.66	23.43	23.55	23.44
5	16QAM	12	0	21.00	20.95	20.82	20.97	20.73	22.69	22.63	22.41	22.50	22.41
5	16QAM	12	7	20.97	20.99	20.81	20.97	20.73	22.67	22.64	22.40	22.47	22.41
5	16QAM	12	13	21.01	21.04	20.85	20.98	20.71	22.62	22.59	22.35	22.41	22.37
5	16QAM	25	0	20.99	20.99	20.86	21.02	20.78	22.71	22.66	22.44	22.49	22.44
5	64QAM	1	0	20.96	20.96	20.76	21.04	20.72	22.35	22.37	22.14	22.21	22.12
5	64QAM	1	12	20.95	21.00	20.86	20.98	20.76	22.33	22.31	22.11	22.16	22.09
5	64QAM	1	24	20.96	20.97	20.83	20.96	20.70	22.29	22.28	22.07	22.20	22.08
5	64QAM	12	0	20.99	20.97	20.81	20.99	20.76	21.77	21.73	21.51	21.56	21.49
5	64QAM	12	7	20.97	20.94	20.79	20.97	20.78	21.77	21.71	21.48	21.56	21.50
5	64QAM	12	13	21.03	21.00	20.84	21.01	20.71	21.73	21.69	21.45	21.51	21.46
5	64QAM	25	0	20.98	20.98	20.77	20.99	20.78	21.76	21.74	21.48	21.55	21.48

Power Selection				Hotspot / Body-worn / Product Specific									
Transmit Antenna				UAT					LAT				
Max. Power				25.2					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	24.86	25.19	24.88	25.18	24.31	24.86	25.19	24.88	25.18	24.31
20	QPSK	1	49	24.60	24.77	24.60	24.99	25.08	24.60	24.77	24.60	24.99	25.08
20	QPSK	1	99	24.70	24.60	24.63	24.94	24.13	24.70	24.60	24.63	24.94	24.13
20	QPSK	50	0	23.72	24.18	23.75	24.17	24.16	23.72	24.18	23.75	24.17	24.16
20	QPSK	50	24	23.78	23.84	23.67	24.09	24.15	23.78	23.84	23.67	24.09	24.15
20	QPSK	50	50	23.73	23.74	23.56	23.96	24.12	23.73	23.74	23.56	23.96	24.12
20	QPSK	100	0	23.74	24.19	23.63	24.10	23.85	23.74	24.19	23.63	24.10	23.85
20	16QAM	1	0	24.02	24.11	24.04	24.20	23.57	24.02	24.11	24.04	24.20	23.57
20	16QAM	1	49	23.72	23.90	23.77	24.11	24.15	23.72	23.90	23.77	24.11	24.15
20	16QAM	1	99	23.80	23.75	23.73	24.02	23.28	23.80	23.75	23.73	24.02	23.28
20	16QAM	50	0	22.84	23.07	22.87	23.20	23.18	22.84	23.07	22.87	23.20	23.18
20	16QAM	50	24	22.88	22.96	22.77	23.19	23.15	22.88	22.96	22.77	23.19	23.15
20	16QAM	50	50	22.81	22.83	22.68	23.08	23.02	22.81	22.83	22.68	23.08	23.02
20	16QAM	100	0	22.87	22.93	22.78	23.19	23.11	22.87	22.93	22.78	23.19	23.11
20	64QAM	1	0	22.60	22.71	22.64	23.04	22.16	22.60	22.71	22.64	23.04	22.16
20	64QAM	1	49	22.35	22.52	22.36	22.73	22.96	22.35	22.52	22.36	22.73	22.96
20	64QAM	1	99	22.40	22.39	22.36	22.63	21.88	22.40	22.39	22.36	22.63	21.88
20	64QAM	50	0	21.88	22.06	21.87	22.18	22.17	21.88	22.06	21.87	22.18	22.17
20	64QAM	50	24	21.86	21.95	21.76	22.19	22.18	21.86	21.95	21.76	22.19	22.18
20	64QAM	50	50	21.81	21.83	21.67	22.07	22.14	21.81	21.83	21.67	22.07	22.14



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20	64QAM	100	0	21.87	21.93	21.77	22.16	22.07	21.87	21.93	21.77	22.16	22.07
Channel				39725	40173	40620	39725	40173	40620	39725	40173	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2503.5	2548.3	2593	2503.5	2548.3	2503.5	2548.3
15	QPSK	1	0	24.69	24.70	24.54	24.68	24.48	24.69	24.70	24.54	24.68	24.48
15	QPSK	1	37	24.55	24.56	24.34	24.45	24.34	24.55	24.56	24.34	24.45	24.34
15	QPSK	1	74	24.67	24.48	24.27	24.44	24.30	24.67	24.48	24.27	24.44	24.30
15	QPSK	36	0	23.64	23.63	23.42	23.55	23.41	23.64	23.63	23.42	23.55	23.41
15	QPSK	36	20	23.61	23.57	23.38	23.47	23.30	23.61	23.57	23.38	23.47	23.30
15	QPSK	36	39	23.63	23.46	23.27	23.35	23.36	23.63	23.46	23.27	23.35	23.36
15	QPSK	75	0	23.67	23.58	23.35	23.47	23.32	23.67	23.58	23.35	23.47	23.32
15	16QAM	1	0	23.86	23.90	23.69	23.78	23.62	23.86	23.90	23.69	23.78	23.62
15	16QAM	1	37	23.69	23.68	23.49	23.55	23.45	23.69	23.68	23.49	23.55	23.45
15	16QAM	1	74	23.78	23.57	23.41	23.50	23.39	23.78	23.57	23.41	23.50	23.39
15	16QAM	36	0	22.73	22.71	22.48	22.58	22.46	22.73	22.71	22.48	22.58	22.46
15	16QAM	36	20	22.65	22.66	22.42	22.54	22.34	22.65	22.66	22.42	22.54	22.34
15	16QAM	36	39	22.69	22.53	22.34	22.39	22.43	22.69	22.53	22.34	22.39	22.43
15	16QAM	75	0	22.79	22.67	22.46	22.55	22.43	22.79	22.67	22.46	22.55	22.43
15	64QAM	1	0	22.45	22.50	22.27	22.40	22.20	22.45	22.50	22.27	22.40	22.20
15	64QAM	1	37	22.27	22.28	22.08	22.15	22.08	22.27	22.28	22.08	22.15	22.08
15	64QAM	1	74	22.38	22.17	22.03	22.11	22.03	22.38	22.17	22.03	22.11	22.03
15	64QAM	36	0	21.77	21.73	21.50	21.64	21.51	21.77	21.73	21.50	21.64	21.51
15	64QAM	36	20	21.70	21.68	21.47	21.56	21.40	21.70	21.68	21.47	21.56	21.40
15	64QAM	36	39	21.72	21.55	21.39	21.44	21.47	21.72	21.55	21.39	21.44	21.47
15	64QAM	75	0	21.81	21.69	21.48	21.58	21.47	21.81	21.69	21.48	21.58	21.47
Channel				39700	40160	40620	39700	40160	40620	41080	41540	39700	40160
Frequency (MHz)				2501	2547	2593	2501	2547	2593	2639	2685	2501	2547
10	QPSK	1	0	24.63	24.68	24.44	24.54	24.56	24.63	24.68	24.44	24.54	24.56
10	QPSK	1	25	24.55	24.57	24.34	24.43	24.42	24.55	24.57	24.34	24.43	24.42
10	QPSK	1	49	24.50	24.48	24.28	24.42	24.47	24.50	24.48	24.28	24.42	24.47
10	QPSK	25	0	23.60	23.60	23.37	23.47	23.42	23.60	23.60	23.37	23.47	23.42
10	QPSK	25	12	23.59	23.57	23.37	23.44	23.47	23.59	23.57	23.37	23.44	23.47
10	QPSK	25	25	23.52	23.51	23.28	23.36	23.45	23.52	23.51	23.28	23.36	23.45
10	QPSK	50	0	23.58	23.58	23.35	23.44	23.40	23.58	23.58	23.35	23.44	23.40
10	16QAM	1	0	23.79	23.83	23.59	23.67	23.68	23.79	23.83	23.59	23.67	23.68
10	16QAM	1	25	23.70	23.71	23.49	23.55	23.55	23.70	23.71	23.49	23.55	23.55
10	16QAM	1	49	23.63	23.59	23.39	23.50	23.60	23.63	23.59	23.39	23.50	23.60
10	16QAM	25	0	22.72	22.70	22.45	22.57	22.52	22.72	22.70	22.45	22.57	22.52
10	16QAM	25	12	22.69	22.67	22.44	22.55	22.57	22.69	22.67	22.44	22.55	22.57
10	16QAM	25	25	22.63	22.58	22.38	22.43	22.55	22.63	22.58	22.38	22.43	22.55
10	16QAM	50	0	22.70	22.69	22.45	22.56	22.52	22.70	22.69	22.45	22.56	22.52
10	64QAM	1	0	22.39	22.44	22.21	22.30	22.31	22.39	22.44	22.21	22.30	22.31
10	64QAM	1	25	22.32	22.33	22.11	22.17	22.17	22.32	22.33	22.11	22.17	22.17
10	64QAM	1	49	22.26	22.23	22.03	22.14	22.23	22.26	22.23	22.03	22.14	22.23
10	64QAM	25	0	21.80	21.76	21.52	21.62	21.59	21.80	21.76	21.52	21.62	21.59
10	64QAM	25	12	21.76	21.73	21.51	21.61	21.64	21.76	21.73	21.51	21.61	21.64
10	64QAM	25	25	21.69	21.67	21.43	21.50	21.63	21.69	21.67	21.43	21.50	21.63
10	64QAM	50	0	21.69	21.68	21.46	21.55	21.51	21.69	21.68	21.46	21.55	21.51
Channel				39675	40148	40620	39675	40148	40620	41093	41565	39675	40148
Frequency (MHz)				2498.5	2545.8	2593	2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8
5	QPSK	1	0	24.60	24.61	24.40	24.46	24.37	24.60	24.61	24.40	24.46	24.37
5	QPSK	1	12	24.58	24.58	24.35	24.42	24.34	24.58	24.58	24.35	24.42	24.34
5	QPSK	1	24	24.50	24.49	24.26	24.42	24.27	24.50	24.49	24.26	24.42	24.27
5	QPSK	12	0	23.64	23.60	23.37	23.48	23.37	23.64	23.60	23.37	23.48	23.37
5	QPSK	12	7	23.62	23.58	23.36	23.45	23.38	23.62	23.58	23.36	23.45	23.38
5	QPSK	12	13	23.59	23.53	23.32	23.39	23.32	23.59	23.53	23.32	23.39	23.32
5	QPSK	25	0	23.57	23.56	23.34	23.39	23.33	23.57	23.56	23.34	23.39	23.33
5	16QAM	1	0	23.72	23.75	23.52	23.57	23.51	23.72	23.75	23.52	23.57	23.51
5	16QAM	1	12	23.72	23.72	23.50	23.54	23.49	23.72	23.72	23.50	23.54	23.49
5	16QAM	1	24	23.69	23.66	23.43	23.55	23.44	23.69	23.66	23.43	23.55	23.44
5	16QAM	12	0	22.69	22.63	22.41	22.50	22.41	22.69	22.63	22.41	22.50	22.41
5	16QAM	12	7	22.67	22.64	22.40	22.47	22.41	22.67	22.64	22.40	22.47	22.41
5	16QAM	12	13	22.62	22.59	22.35	22.41	22.37	22.62	22.59	22.35	22.41	22.37
5	16QAM	25	0	22.71	22.66	22.44	22.49	22.44	22.71	22.66	22.44	22.49	22.44
5	64QAM	1	0	22.35	22.37	22.14	22.21	22.12	22.35	22.37	22.14	22.21	22.12
5	64QAM	1	12	22.33	22.31	22.11	22.16	22.09	22.33	22.31	22.11	22.16	22.09
5	64QAM	1	24	22.29	22.28	22.07	22.20	22.08	22.29	22.28	22.07	22.20	22.08
5	64QAM	12	0	21.77	21.73	21.51	21.56	21.49	21.77	21.73	21.51	21.56	21.49
5	64QAM	12	7	21.77	21.71	21.48	21.56	21.50	21.77	21.71	21.48	21.56	21.50
5	64QAM	12	13	21.73	21.69	21.45	21.51	21.46	21.73	21.69	21.45	21.51	21.46
5	64QAM	25	0	21.76	21.74	21.48	21.55	21.48	21.76	21.74	21.48	21.55	21.48



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<Wifi on>

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				21.5					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	21.17	21.26	21.21	21.27	20.05	24.86	25.19	24.88	25.18	24.31
20	QPSK	1	49	21.09	21.10	20.95	21.12	20.78	24.60	24.77	24.60	24.99	25.08
20	QPSK	1	99	21.11	21.11	21.01	21.15	20.69	24.70	24.60	24.63	24.94	24.13
20	QPSK	50	0	21.10	21.18	20.93	21.20	20.70	23.72	24.18	23.75	24.17	24.16
20	QPSK	50	24	21.06	21.14	20.98	21.13	20.78	23.78	23.84	23.67	24.09	24.20
20	QPSK	50	50	21.03	21.10	20.96	21.19	20.70	23.73	23.74	23.56	23.96	24.12
20	QPSK	100	0	21.06	21.14	21.00	21.13	20.69	23.74	24.19	23.63	24.10	23.85
20	16QAM	1	0	21.04	21.16	21.00	21.20	20.71	24.02	24.11	24.04	24.20	23.57
20	16QAM	1	49	21.05	21.13	20.96	21.11	20.78	23.72	23.90	23.77	24.11	24.15
20	16QAM	1	99	21.09	21.19	20.94	21.14	20.70	23.80	23.75	23.73	24.02	23.28
20	16QAM	50	0	21.12	21.11	20.93	21.15	20.74	22.84	23.07	22.87	23.20	23.18
20	16QAM	50	24	21.10	21.16	20.97	21.12	20.77	22.88	22.96	22.77	23.19	23.15
20	16QAM	50	50	21.11	21.10	20.95	21.18	20.77	22.81	22.83	22.68	23.08	23.02
20	16QAM	100	0	21.12	21.14	20.91	21.18	20.77	22.87	22.93	22.78	23.19	23.11
20	64QAM	1	0	21.13	21.11	21.01	21.20	20.77	22.60	22.71	22.64	23.04	22.16
20	64QAM	1	49	21.03	21.17	20.93	21.14	20.70	22.35	22.52	22.36	22.73	22.96
20	64QAM	1	99	21.08	21.19	20.94	21.15	20.71	22.40	22.39	22.36	22.63	21.88
20	64QAM	50	0	21.07	21.13	21.01	21.12	20.72	21.88	22.06	21.87	22.18	22.17
20	64QAM	50	24	21.13	21.09	21.00	21.15	20.74	21.86	21.95	21.76	22.19	22.18
20	64QAM	50	50	21.03	21.09	20.95	21.11	20.74	21.81	21.83	21.67	22.07	22.14
20	64QAM	100	0	21.04	21.17	21.01	21.12	20.72	21.87	21.93	21.77	22.16	22.07
Channel				39725	40173	40620	41068	41515	39725	40173	40620	40620	39725
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2593	2503.5
15	QPSK	1	0	20.96	20.98	20.79	21.04	20.71	24.69	24.70	24.54	24.68	24.48
15	QPSK	1	37	21.03	20.96	20.81	20.95	20.73	24.55	24.56	24.34	24.45	24.34
15	QPSK	1	74	21.03	21.02	20.76	20.98	20.79	24.67	24.48	24.27	24.44	24.30
15	QPSK	36	0	20.93	21.00	20.81	20.95	20.74	23.64	23.63	23.42	23.55	23.41
15	QPSK	36	20	21.03	20.99	20.80	21.05	20.71	23.61	23.57	23.38	23.47	23.30
15	QPSK	36	39	21.00	20.98	20.81	21.05	20.77	23.63	23.46	23.27	23.35	23.36
15	QPSK	75	0	20.97	20.96	20.78	20.98	20.74	23.67	23.58	23.35	23.47	23.32
15	16QAM	1	0	21.01	21.03	20.79	20.99	20.79	23.86	23.90	23.69	23.78	23.62
15	16QAM	1	37	21.01	20.98	20.80	20.96	20.69	23.69	23.68	23.49	23.55	23.45
15	16QAM	1	74	20.99	21.00	20.77	21.03	20.79	23.78	23.57	23.41	23.50	23.39
15	16QAM	36	0	21.01	20.94	20.79	21.03	20.78	22.73	22.71	22.48	22.58	22.46
15	16QAM	36	20	20.95	21.04	20.78	20.95	20.78	22.65	22.66	22.42	22.54	22.34
15	16QAM	36	39	20.95	21.00	20.77	20.97	20.72	22.69	22.53	22.34	22.39	22.43
15	16QAM	75	0	20.96	21.03	20.85	20.98	20.76	22.79	22.67	22.46	22.55	22.43
15	64QAM	1	0	20.94	20.97	20.83	20.99	20.76	22.45	22.50	22.27	22.40	22.20
15	64QAM	1	37	20.97	21.00	20.81	20.96	20.77	22.27	22.28	22.08	22.15	22.08
15	64QAM	1	74	21.03	20.97	20.77	21.05	20.74	22.38	22.17	22.03	22.11	22.03
15	64QAM	36	0	20.94	21.00	20.86	20.99	20.71	21.77	21.73	21.50	21.64	21.51
15	64QAM	36	20	21.01	21.04	20.82	20.95	20.77	21.70	21.68	21.47	21.56	21.40
15	64QAM	36	39	20.97	20.94	20.77	20.99	20.70	21.72	21.55	21.39	21.44	21.47
15	64QAM	75	0	21.00	20.98	20.77	20.98	20.69	21.81	21.69	21.48	21.58	21.47
Channel				39700	40160	40620	41080	41540	39700	40160	40620	40620	41080
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2593	2639
10	QPSK	1	0	21.03	21.03	20.82	21.02	20.70	24.63	24.68	24.44	24.54	24.56
10	QPSK	1	25	21.01	20.97	20.77	21.00	20.74	24.55	24.57	24.34	24.43	24.42
10	QPSK	1	49	21.03	20.95	20.76	20.98	20.77	24.50	24.48	24.28	24.42	24.47
10	QPSK	25	0	20.97	20.99	20.85	20.96	20.74	23.60	23.60	23.37	23.47	23.42
10	QPSK	25	12	20.97	21.03	20.78	21.02	20.77	23.59	23.57	23.37	23.44	23.47
10	QPSK	25	25	20.99	21.01	20.82	20.98	20.75	23.52	23.51	23.28	23.36	23.45
10	QPSK	50	0	20.93	21.02	20.76	21.04	20.77	23.58	23.58	23.35	23.44	23.40
10	16QAM	1	0	20.97	20.97	20.81	20.95	20.76	23.79	23.83	23.59	23.67	23.68
10	16QAM	1	25	20.98	20.95	20.85	20.95	20.71	23.70	23.71	23.49	23.55	23.55
10	16QAM	1	49	20.98	20.96	20.85	20.99	20.75	23.63	23.59	23.39	23.50	23.60
10	16QAM	25	0	21.01	20.98	20.80	21.04	20.78	22.72	22.70	22.45	22.57	22.52
10	16QAM	25	12	21.02	20.98	20.86	20.98	20.72	22.69	22.67	22.44	22.55	22.57
10	16QAM	25	25	20.94	21.03	20.76	21.03	20.71	22.63	22.58	22.38	22.43	22.55
10	16QAM	50	0	20.94	21.03	20.82	21.04	20.70	22.70	22.69	22.45	22.56	22.52



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10	64QAM	1	0	21.00	21.01	20.78	21.01	20.71	22.39	22.44	22.21	22.30	22.31
10	64QAM	1	25	20.99	20.97	20.82	20.98	20.77	22.32	22.33	22.11	22.17	22.17
10	64QAM	1	49	20.95	20.97	20.81	21.02	20.71	22.26	22.23	22.03	22.14	22.23
10	64QAM	25	0	20.98	20.99	20.86	20.99	20.79	21.80	21.76	21.52	21.62	21.59
10	64QAM	25	12	20.96	21.03	20.85	20.99	20.71	21.76	21.73	21.51	21.61	21.64
10	64QAM	25	25	20.99	20.97	20.79	21.05	20.71	21.69	21.67	21.43	21.50	21.63
10	64QAM	50	0	21.02	20.96	20.78	21.00	20.73	21.69	21.68	21.46	21.55	21.51
Channel				39675	40148	40620	41093	41565	39675	40148	40620	40620	41093
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2593	2640.30
5	QPSK	1	0	20.93	20.95	20.83	20.98	20.74	24.60	24.61	24.40	24.46	24.37
5	QPSK	1	12	20.97	20.95	20.85	21.02	20.76	24.58	24.58	24.35	24.42	24.34
5	QPSK	1	24	21.02	20.94	20.80	21.01	20.70	24.50	24.49	24.26	24.42	24.27
5	QPSK	12	0	20.99	21.03	20.77	20.97	20.78	23.64	23.60	23.37	23.48	23.37
5	QPSK	12	7	21.02	21.01	20.78	20.95	20.78	23.62	23.58	23.36	23.45	23.38
5	QPSK	12	13	20.96	20.98	20.78	20.95	20.75	23.59	23.53	23.32	23.39	23.32
5	QPSK	25	0	20.95	21.04	20.84	20.95	20.75	23.57	23.56	23.34	23.39	23.33
5	16QAM	1	0	21.02	20.99	20.85	21.02	20.79	23.72	23.75	23.52	23.57	23.51
5	16QAM	1	12	20.98	21.01	20.83	21.02	20.79	23.72	23.72	23.50	23.54	23.49
5	16QAM	1	24	20.98	20.97	20.86	21.02	20.73	23.69	23.66	23.43	23.55	23.44
5	16QAM	12	0	21.00	20.95	20.82	20.97	20.73	22.69	22.63	22.41	22.50	22.41
5	16QAM	12	7	20.97	20.99	20.81	20.97	20.73	22.67	22.64	22.40	22.47	22.41
5	16QAM	12	13	21.01	21.04	20.85	20.98	20.71	22.62	22.59	22.35	22.41	22.37
5	16QAM	25	0	20.99	20.99	20.86	21.02	20.78	22.71	22.66	22.44	22.49	22.44
5	64QAM	1	0	20.96	20.96	20.76	21.04	20.72	22.35	22.37	22.14	22.21	22.12
5	64QAM	1	12	20.95	21.00	20.86	20.98	20.76	22.33	22.31	22.11	22.16	22.09
5	64QAM	1	24	20.96	20.97	20.83	20.96	20.70	22.29	22.28	22.07	22.20	22.08
5	64QAM	12	0	20.99	20.97	20.81	20.99	20.76	21.77	21.73	21.51	21.56	21.49
5	64QAM	12	7	20.97	20.94	20.79	20.97	20.78	21.77	21.71	21.48	21.56	21.50
5	64QAM	12	13	21.03	21.00	20.84	21.01	20.71	21.73	21.69	21.45	21.51	21.46
5	64QAM	25	0	20.98	20.98	20.77	20.99	20.78	21.76	21.74	21.48	21.55	21.48

Power Selection				Hotspot / Body-worn / Product Specific									
Transmit Antenna				UAT					LAT				
Max. Power				25.2					25.2				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	24.86	25.19	24.88	25.18	24.31	24.86	25.19	24.88	25.18	24.31
20	QPSK	1	49	24.60	24.77	24.60	24.99	25.08	24.60	24.77	24.60	24.99	25.08
20	QPSK	1	99	24.70	24.60	24.63	24.94	24.13	24.70	24.60	24.63	24.94	24.13
20	QPSK	50	0	23.72	24.18	23.75	24.17	24.16	23.72	24.18	23.75	24.17	24.16
20	QPSK	50	24	23.78	23.84	23.67	24.09	24.20	23.78	23.84	23.67	24.09	24.20
20	QPSK	50	50	23.73	23.74	23.56	23.96	24.12	23.73	23.74	23.56	23.96	24.12
20	QPSK	100	0	23.74	24.19	23.63	24.10	23.85	23.74	24.19	23.63	24.10	23.85
20	16QAM	1	0	24.02	24.11	24.04	24.20	23.57	24.02	24.11	24.04	24.20	23.57
20	16QAM	1	49	23.72	23.90	23.77	24.11	24.15	23.72	23.90	23.77	24.11	24.15
20	16QAM	1	99	23.80	23.75	23.73	24.02	23.28	23.80	23.75	23.73	24.02	23.28
20	16QAM	50	0	22.84	23.07	22.87	23.20	23.18	22.84	23.07	22.87	23.20	23.18
20	16QAM	50	24	22.88	22.96	22.77	23.19	23.15	22.88	22.96	22.77	23.19	23.15
20	16QAM	50	50	22.81	22.83	22.68	23.08	23.02	22.81	22.83	22.68	23.08	23.02
20	16QAM	100	0	22.87	22.93	22.78	23.19	23.11	22.87	22.93	22.78	23.19	23.11
20	64QAM	1	0	22.60	22.71	22.64	23.04	22.16	22.60	22.71	22.64	23.04	22.16
20	64QAM	1	49	22.35	22.52	22.36	22.73	22.96	22.35	22.52	22.36	22.73	22.96
20	64QAM	1	99	22.40	22.39	22.36	22.63	21.88	22.40	22.39	22.36	22.63	21.88
20	64QAM	50	0	21.88	22.06	21.87	22.18	22.17	21.88	22.06	21.87	22.18	22.17
20	64QAM	50	24	21.86	21.95	21.76	22.19	22.18	21.86	21.95	21.76	22.19	22.18
20	64QAM	50	50	21.81	21.83	21.67	22.07	22.14	21.81	21.83	21.67	22.07	22.14
20	64QAM	100	0	21.87	21.93	21.77	22.16	22.07	21.87	21.93	21.77	22.16	22.07
Channel				39725	40173	40620	39725	40173	40620	40620	39725	40173	40173
Frequency (MHz)				2503.5	2548.3	2593	2503.5	2548.3	2593	2593	2503.5	2503.5	2548.3
15	QPSK	1	0	24.69	24.70	24.54	24.68	24.48	24.69	24.70	24.54	24.68	24.48
15	QPSK	1	37	24.55	24.56	24.34	24.45	24.34	24.55	24.56	24.34	24.45	24.34
15	QPSK	1	74	24.67	24.48	24.27	24.44	24.30	24.67	24.48	24.27	24.44	24.30
15	QPSK	36	0	23.64	23.63	23.42	23.55	23.41	23.64	23.63	23.42	23.55	23.41
15	QPSK	36	20	23.61	23.57	23.38	23.47	23.30	23.61	23.57	23.38	23.47	23.30



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15	QPSK	36	39	23.63	23.46	23.27	23.35	23.36	23.63	23.46	23.27	23.35	23.36
15	QPSK	75	0	23.67	23.58	23.35	23.47	23.32	23.67	23.58	23.35	23.47	23.32
15	16QAM	1	0	23.86	23.90	23.69	23.78	23.62	23.86	23.90	23.69	23.78	23.62
15	16QAM	1	37	23.69	23.68	23.49	23.55	23.45	23.69	23.68	23.49	23.55	23.45
15	16QAM	1	74	23.78	23.57	23.41	23.50	23.39	23.78	23.57	23.41	23.50	23.39
15	16QAM	36	0	22.73	22.71	22.48	22.58	22.46	22.73	22.71	22.48	22.58	22.46
15	16QAM	36	20	22.65	22.66	22.42	22.54	22.34	22.65	22.66	22.42	22.54	22.34
15	16QAM	36	39	22.69	22.53	22.34	22.39	22.43	22.69	22.53	22.34	22.39	22.43
15	16QAM	75	0	22.79	22.67	22.46	22.55	22.43	22.79	22.67	22.46	22.55	22.43
15	64QAM	1	0	22.45	22.50	22.27	22.40	22.20	22.45	22.50	22.27	22.40	22.20
15	64QAM	1	37	22.27	22.28	22.08	22.15	22.08	22.27	22.28	22.08	22.15	22.08
15	64QAM	1	74	22.38	22.17	22.03	22.11	22.03	22.38	22.17	22.03	22.11	22.03
15	64QAM	36	0	21.77	21.73	21.50	21.64	21.51	21.77	21.73	21.50	21.64	21.51
15	64QAM	36	20	21.70	21.68	21.47	21.56	21.40	21.70	21.68	21.47	21.56	21.40
15	64QAM	36	39	21.72	21.55	21.39	21.44	21.47	21.72	21.55	21.39	21.44	21.47
15	64QAM	75	0	21.81	21.69	21.48	21.58	21.47	21.81	21.69	21.48	21.58	21.47
Channel				39700	40160	40620	39700	40160	40620	40620	41080	39700	40160
Frequency (MHz)				2501	2547	2593	2501	2547	2593	2593	2639	2501	2547
10	QPSK	1	0	24.63	24.68	24.44	24.54	24.56	24.63	24.68	24.44	24.54	24.56
10	QPSK	1	25	24.55	24.57	24.34	24.43	24.42	24.55	24.57	24.34	24.43	24.42
10	QPSK	1	49	24.50	24.48	24.28	24.42	24.47	24.50	24.48	24.28	24.42	24.47
10	QPSK	25	0	23.60	23.60	23.37	23.47	23.42	23.60	23.60	23.37	23.47	23.42
10	QPSK	25	12	23.59	23.57	23.37	23.44	23.47	23.59	23.57	23.37	23.44	23.47
10	QPSK	25	25	23.52	23.51	23.28	23.36	23.45	23.52	23.51	23.28	23.36	23.45
10	QPSK	50	0	23.58	23.58	23.35	23.44	23.40	23.58	23.58	23.35	23.44	23.40
10	16QAM	1	0	23.79	23.83	23.59	23.67	23.68	23.79	23.83	23.59	23.67	23.68
10	16QAM	1	25	23.70	23.71	23.49	23.55	23.55	23.70	23.71	23.49	23.55	23.55
10	16QAM	1	49	23.63	23.59	23.39	23.50	23.60	23.63	23.59	23.39	23.50	23.60
10	16QAM	25	0	22.72	22.70	22.45	22.57	22.52	22.72	22.70	22.45	22.57	22.52
10	16QAM	25	12	22.69	22.67	22.44	22.55	22.57	22.69	22.67	22.44	22.55	22.57
10	16QAM	25	25	22.63	22.58	22.38	22.43	22.55	22.63	22.58	22.38	22.43	22.55
10	16QAM	50	0	22.70	22.69	22.45	22.56	22.52	22.70	22.69	22.45	22.56	22.52
10	64QAM	1	0	22.39	22.44	22.21	22.30	22.31	22.39	22.44	22.21	22.30	22.31
10	64QAM	1	25	22.32	22.33	22.11	22.17	22.17	22.32	22.33	22.11	22.17	22.17
10	64QAM	1	49	22.26	22.23	22.03	22.14	22.23	22.26	22.23	22.03	22.14	22.23
10	64QAM	25	0	21.80	21.76	21.52	21.62	21.59	21.80	21.76	21.52	21.62	21.59
10	64QAM	25	12	21.76	21.73	21.51	21.61	21.64	21.76	21.73	21.51	21.61	21.64
10	64QAM	25	25	21.69	21.67	21.43	21.50	21.63	21.69	21.67	21.43	21.50	21.63
10	64QAM	50	0	21.69	21.68	21.46	21.55	21.51	21.69	21.68	21.46	21.55	21.51
Channel				39675	40148	40620	39675	40148	40620	40620	41093	39675	40148
Frequency (MHz)				2498.5	2545.8	2593	2498.5	2545.8	2593	2593	2640.30	2498.5	2545.8
5	QPSK	1	0	24.60	24.61	24.40	24.46	24.37	24.60	24.61	24.40	24.46	24.37
5	QPSK	1	12	24.58	24.58	24.35	24.42	24.34	24.58	24.58	24.35	24.42	24.34
5	QPSK	1	24	24.50	24.49	24.26	24.42	24.27	24.50	24.49	24.26	24.42	24.27
5	QPSK	12	0	23.64	23.60	23.37	23.48	23.37	23.64	23.60	23.37	23.48	23.37
5	QPSK	12	7	23.62	23.58	23.36	23.45	23.38	23.62	23.58	23.36	23.45	23.38
5	QPSK	12	13	23.59	23.53	23.32	23.39	23.32	23.59	23.53	23.32	23.39	23.32
5	QPSK	25	0	23.57	23.56	23.34	23.39	23.33	23.57	23.56	23.34	23.39	23.33
5	16QAM	1	0	23.72	23.75	23.52	23.57	23.51	23.72	23.75	23.52	23.57	23.51
5	16QAM	1	12	23.72	23.72	23.50	23.54	23.49	23.72	23.72	23.50	23.54	23.49
5	16QAM	1	24	23.69	23.66	23.43	23.55	23.44	23.69	23.66	23.43	23.55	23.44
5	16QAM	12	0	22.69	22.63	22.41	22.50	22.41	22.69	22.63	22.41	22.50	22.41
5	16QAM	12	7	22.67	22.64	22.40	22.47	22.41	22.67	22.64	22.40	22.47	22.41
5	16QAM	12	13	22.62	22.59	22.35	22.41	22.37	22.62	22.59	22.35	22.41	22.37
5	16QAM	25	0	22.71	22.66	22.44	22.49	22.44	22.71	22.66	22.44	22.49	22.44
5	64QAM	1	0	22.35	22.37	22.14	22.21	22.12	22.35	22.37	22.14	22.21	22.12
5	64QAM	1	12	22.33	22.31	22.11	22.16	22.09	22.33	22.31	22.11	22.16	22.09
5	64QAM	1	24	22.29	22.28	22.07	22.20	22.08	22.29	22.28	22.07	22.20	22.08
5	64QAM	12	0	21.77	21.73	21.51	21.56	21.49	21.77	21.73	21.51	21.56	21.49
5	64QAM	12	7	21.77	21.71	21.48	21.56	21.50	21.77	21.71	21.48	21.56	21.50
5	64QAM	12	13	21.73	21.69	21.45	21.51	21.46	21.73	21.69	21.45	21.51	21.46
5	64QAM	25	0	21.76	21.74	21.48	21.55	21.48	21.76	21.74	21.48	21.55	21.48

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<LTE Band 41 Power Class 2>

<WiFi off >

Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				23.5					26.5				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	22.89	22.99	22.94	23.00	22.06	26.12	25.69	26.08	25.21	25.10
20	QPSK	1	49	22.86	22.97	22.83	22.99	22.00	25.92	25.91	25.85	25.41	25.20
20	QPSK	1	99	22.83	22.97	22.93	22.96	22.01	25.96	25.92	25.85	24.92	25.30
20	QPSK	50	0	22.81	22.99	22.89	22.94	21.98	25.19	24.74	25.13	24.30	24.94
20	QPSK	50	24	22.88	22.97	22.86	22.92	21.92	25.23	24.78	25.03	24.21	25.14
20	QPSK	50	50	22.78	22.95	22.87	22.95	21.92	25.12	24.83	24.92	23.95	25.40
20	QPSK	100	0	22.83	22.91	22.89	22.92	21.93	25.21	24.37	25.01	23.77	24.79
20	16QAM	1	0	22.78	22.97	22.92	22.97	21.93	25.46	25.02	25.44	24.53	24.52
20	16QAM	1	49	22.85	22.94	22.85	22.94	21.99	25.28	25.27	25.20	24.90	25.68
20	16QAM	1	99	22.80	22.93	22.92	22.99	22.00	25.28	25.22	25.17	24.30	24.65
20	16QAM	50	0	22.84	22.94	22.85	22.97	21.94	24.30	23.98	24.22	23.50	24.11
20	16QAM	50	24	22.80	22.99	22.85	22.98	21.94	24.32	23.99	24.15	23.37	24.44
20	16QAM	50	50	22.79	22.94	22.87	22.96	21.99	24.25	24.04	24.04	23.20	24.50
20	16QAM	100	0	22.87	22.98	22.85	22.94	21.91	24.33	23.64	24.13	23.14	23.97
20	64QAM	1	0	22.84	22.91	22.90	22.91	21.98	25.35	24.99	25.35	24.55	24.54
20	64QAM	1	49	22.80	22.98	22.85	22.99	22.01	25.16	25.02	25.11	24.44	25.61
20	64QAM	1	99	22.79	22.90	22.91	22.91	21.95	25.15	25.13	25.06	24.19	24.54
20	64QAM	50	0	22.85	22.91	22.85	22.97	21.96	24.23	23.89	24.17	23.44	24.11
20	64QAM	50	24	22.84	22.91	22.90	22.90	21.99	24.26	23.93	24.09	23.28	24.39
20	64QAM	50	50	22.81	22.94	22.91	22.96	21.92	24.20	24.04	23.96	23.12	24.45
20	64QAM	100	0	22.82	22.94	22.85	22.93	21.91	24.34	23.67	24.16	23.26	24.14
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	22.79	22.94	22.85	22.92	21.94	26.08	25.98	26.05	25.47	25.59
15	QPSK	1	37	22.79	22.92	22.88	22.97	21.98	26.03	26.11	25.94	25.41	26.07
15	QPSK	1	74	22.83	22.94	22.84	22.98	22.01	26.03	26.02	25.91	25.16	26.01
15	QPSK	36	0	22.78	22.92	22.85	22.96	21.92	25.17	24.81	25.10	24.30	24.70
15	QPSK	36	20	22.79	22.99	22.93	22.93	21.93	25.13	24.84	25.06	24.23	25.03
15	QPSK	36	39	22.82	22.94	22.91	22.98	21.97	25.16	24.91	24.93	24.06	25.12
15	QPSK	75	0	22.83	22.96	22.90	22.96	21.93	25.18	24.62	24.99	23.99	24.65
15	16QAM	1	0	22.80	22.89	22.86	22.92	22.00	25.42	25.15	25.41	24.67	24.76
15	16QAM	1	37	22.84	22.98	22.85	23.00	22.01	25.28	25.19	25.24	24.63	25.29
15	16QAM	1	74	22.82	22.97	22.87	22.97	22.01	25.34	25.22	25.14	24.37	25.25
15	16QAM	36	0	22.87	22.97	22.87	22.93	21.98	24.25	24.02	24.18	23.48	23.94
15	16QAM	36	20	22.86	22.91	22.84	22.92	22.01	24.21	24.06	24.11	23.40	24.11
15	16QAM	36	39	22.82	22.98	22.85	22.90	21.96	24.20	24.03	24.00	23.18	24.20
15	16QAM	75	0	22.87	22.95	22.92	22.95	22.00	24.30	23.91	24.12	23.28	23.93
15	64QAM	1	0	22.80	22.92	22.85	22.93	21.98	24.24	24.04	24.21	23.63	23.73
15	64QAM	1	37	22.83	22.90	22.87	22.99	21.91	24.08	24.10	24.03	23.45	24.13
15	64QAM	1	74	22.80	22.99	22.92	23.00	21.94	24.18	24.07	23.96	23.26	24.10
15	64QAM	36	0	22.82	22.99	22.87	22.97	21.96	23.28	23.10	23.18	22.55	23.04
15	64QAM	36	20	22.84	22.95	22.88	22.93	22.01	23.24	23.14	23.16	22.43	23.16
15	64QAM	36	39	22.86	22.89	22.84	22.90	21.94	23.25	23.10	23.05	22.21	23.23
15	64QAM	75	0	22.81	22.92	22.93	22.91	21.95	23.31	22.94	23.14	22.29	23.13
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	22.86	22.95	22.90	22.99	22.01	26.03	25.79	26.00	25.19	25.92
10	QPSK	1	25	22.84	22.91	22.89	22.96	21.96	25.98	25.94	25.91	25.29	26.00
10	QPSK	1	49	22.88	22.92	22.90	22.90	21.92	25.93	25.92	25.83	25.10	26.07
10	QPSK	25	0	22.87	22.91	22.91	22.98	21.97	25.14	24.84	25.07	24.26	25.09
10	QPSK	25	12	22.84	22.94	22.85	22.94	21.98	25.13	24.87	25.02	24.20	25.11
10	QPSK	25	25	22.83	22.90	22.83	22.96	21.97	25.09	24.88	25.00	24.11	25.09
10	QPSK	50	0	22.88	22.94	22.91	22.93	22.00	25.15	24.54	25.04	23.96	24.99
10	16QAM	1	0	22.83	22.89	22.90	22.99	22.01	25.36	25.06	25.31	24.56	25.23
10	16QAM	1	25	22.87	22.94	22.87	22.99	21.93	25.33	25.12	25.24	24.42	25.32
10	16QAM	1	49	22.78	22.97	22.92	22.97	22.01	25.29	25.14	25.16	24.39	25.38
10	16QAM	25	0	22.81	22.93	22.92	22.91	21.97	24.27	24.06	24.20	23.43	24.22
10	16QAM	25	12	22.82	22.94	22.89	22.97	21.98	24.26	24.10	24.13	23.39	24.23



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10	16QAM	25	25	22.79	22.97	22.84	22.90	21.93	24.20	24.07	24.08	23.30	24.19
10	16QAM	50	0	22.82	22.94	22.83	22.92	21.98	24.25	23.84	24.16	23.17	24.17
10	64QAM	1	0	22.84	22.99	22.88	22.98	21.99	24.20	23.99	24.13	23.40	24.24
10	64QAM	1	25	22.80	22.89	22.84	22.95	21.91	24.13	24.18	24.06	23.51	24.15
10	64QAM	1	49	22.82	22.96	22.89	22.92	21.97	24.08	24.08	23.98	23.25	24.22
10	64QAM	25	0	22.81	22.91	22.85	22.91	21.98	23.33	23.17	23.23	22.52	23.28
10	64QAM	25	12	22.78	22.95	22.87	22.92	21.99	23.32	23.21	23.20	22.45	23.29
10	64QAM	25	25	22.78	22.95	22.92	22.94	22.00	23.25	23.22	23.13	22.36	23.27
10	64QAM	50	0	22.87	22.98	22.87	22.97	21.92	23.24	23.02	23.11	22.24	23.19
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	22.87	22.97	22.83	22.94	21.94	26.00	25.73	25.92	25.12	26.04
5	QPSK	1	12	22.78	22.92	22.85	22.92	21.98	25.99	25.73	25.89	25.05	26.00
5	QPSK	1	24	22.87	22.89	22.86	23.00	21.93	25.93	25.73	25.81	25.03	25.94
5	QPSK	12	0	22.80	22.99	22.92	22.91	21.99	25.15	24.97	25.02	24.25	25.11
5	QPSK	12	7	22.86	22.92	22.90	23.00	21.95	25.14	25.00	25.04	24.26	25.09
5	QPSK	12	13	22.86	22.97	22.90	22.94	21.99	25.13	24.97	25.00	24.24	25.06
5	QPSK	25	0	22.86	22.97	22.92	22.96	21.99	25.12	24.72	24.97	24.07	25.07
5	16QAM	1	0	22.78	22.92	22.89	22.97	21.97	25.30	25.03	25.25	24.38	25.33
5	16QAM	1	12	22.80	22.95	22.86	22.91	21.92	25.34	24.92	25.24	24.30	25.33
5	16QAM	1	24	22.82	22.91	22.88	22.95	21.92	25.28	25.06	25.18	24.28	25.26
5	16QAM	12	0	22.80	22.92	22.83	22.96	22.01	24.25	24.10	24.15	23.39	24.22
5	16QAM	12	7	22.84	22.99	22.89	22.94	22.01	24.25	24.13	24.13	23.39	24.21
5	16QAM	12	13	22.80	22.97	22.93	22.97	21.92	24.20	24.12	24.09	23.37	24.16
5	16QAM	25	0	22.85	22.94	22.92	22.93	21.99	24.24	24.04	24.12	23.30	24.20
5	64QAM	1	0	22.84	22.97	22.89	22.91	21.97	24.13	23.96	24.07	23.35	24.17
5	64QAM	1	12	22.78	22.94	22.92	22.98	21.98	24.11	24.17	24.05	23.37	24.17
5	64QAM	1	24	22.86	22.95	22.83	22.98	21.95	24.10	24.05	24.01	23.28	24.12
5	64QAM	12	0	22.88	22.99	22.88	22.94	22.00	23.28	23.20	23.18	22.45	23.28
5	64QAM	12	7	22.80	22.90	22.83	22.94	21.99	23.28	23.18	23.19	22.40	23.27
5	64QAM	12	13	22.86	22.94	22.89	22.94	21.96	23.24	23.27	23.13	22.43	23.23
5	64QAM	25	0	22.87	22.91	22.93	22.95	22.00	23.28	23.19	23.18	22.37	23.25



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Power Selection				Hotspot / Body-worn / Product Specific									
Transmit Antenna				UAT					LAT				
Max. Power				26.5					26.5				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	26.12	25.69	26.08	25.21	25.10	26.12	25.69	26.08	25.21	25.10
20	QPSK	1	49	25.92	25.91	25.85	25.41	25.20	25.92	25.91	25.85	25.41	25.20
20	QPSK	1	99	25.96	25.92	25.85	24.92	25.30	25.96	25.92	25.85	24.92	25.30
20	QPSK	50	0	25.19	24.74	25.13	24.30	24.94	25.19	24.74	25.13	24.30	24.94
20	QPSK	50	24	25.23	24.78	25.03	24.21	25.14	25.23	24.78	25.03	24.21	25.14
20	QPSK	50	50	25.12	24.83	24.92	23.95	25.40	25.12	24.83	24.92	23.95	25.40
20	QPSK	100	0	25.21	24.37	25.01	23.77	24.79	25.21	24.37	25.01	23.77	24.79
20	16QAM	1	0	25.46	25.02	25.44	24.53	24.52	25.46	25.02	25.44	24.53	24.52
20	16QAM	1	49	25.28	25.27	25.20	24.90	25.68	25.28	25.27	25.20	24.90	25.68
20	16QAM	1	99	25.28	25.22	25.17	24.30	24.65	25.28	25.22	25.17	24.30	24.65
20	16QAM	50	0	24.30	23.98	24.22	23.50	24.11	24.30	23.98	24.22	23.50	24.11
20	16QAM	50	24	24.32	23.99	24.15	23.37	24.44	24.32	23.99	24.15	23.37	24.44
20	16QAM	50	50	24.25	24.04	24.04	23.20	24.50	24.25	24.04	24.04	23.20	24.50
20	16QAM	100	0	24.33	23.64	24.13	23.14	23.97	24.33	23.64	24.13	23.14	23.97
20	64QAM	1	0	25.35	24.99	25.35	24.55	24.54	25.35	24.99	25.35	24.55	24.54
20	64QAM	1	49	25.16	25.02	25.11	24.44	25.61	25.16	25.02	25.11	24.44	25.61
20	64QAM	1	99	25.15	25.13	25.06	24.19	24.54	25.15	25.13	25.06	24.19	24.54
20	64QAM	50	0	24.23	23.89	24.17	23.44	24.11	24.23	23.89	24.17	23.44	24.11
20	64QAM	50	24	24.26	23.93	24.09	23.28	24.39	24.26	23.93	24.09	23.28	24.39
20	64QAM	50	50	24.20	24.04	23.96	23.12	24.45	24.20	24.04	23.96	23.12	24.45
20	64QAM	100	0	24.34	23.67	24.16	23.26	24.14	24.34	23.67	24.16	23.26	24.14
Channel				39725	40173	40620	39725	40173	40620	39725	40173	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2503.5	2548.3	2593	2503.5	2548.3	2503.5	2548.3
15	QPSK	1	0	26.08	25.98	26.05	25.47	25.59	26.08	25.98	26.05	25.47	25.59
15	QPSK	1	37	26.03	26.11	25.94	25.41	26.07	26.03	26.11	25.94	25.41	26.07
15	QPSK	1	74	26.03	26.02	25.91	25.16	26.01	26.03	26.02	25.91	25.16	26.01
15	QPSK	36	0	25.17	24.81	25.10	24.30	24.70	25.17	24.81	25.10	24.30	24.70
15	QPSK	36	20	25.13	24.84	25.06	24.23	25.03	25.13	24.84	25.06	24.23	25.03
15	QPSK	36	39	25.16	24.91	24.93	24.06	25.12	25.16	24.91	24.93	24.06	25.12
15	QPSK	75	0	25.18	24.62	24.99	23.99	24.65	25.18	24.62	24.99	23.99	24.65
15	16QAM	1	0	25.42	25.15	25.41	24.67	24.76	25.42	25.15	25.41	24.67	24.76
15	16QAM	1	37	25.28	25.19	25.24	24.63	25.29	25.28	25.19	25.24	24.63	25.29
15	16QAM	1	74	25.34	25.22	25.14	24.37	25.25	25.34	25.22	25.14	24.37	25.25
15	16QAM	36	0	24.25	24.02	24.18	23.48	23.94	24.25	24.02	24.18	23.48	23.94
15	16QAM	36	20	24.21	24.06	24.11	23.40	24.11	24.21	24.06	24.11	23.40	24.11
15	16QAM	36	39	24.20	24.03	24.00	23.18	24.20	24.20	24.03	24.00	23.18	24.20
15	16QAM	75	0	24.30	23.91	24.12	23.28	23.93	24.30	23.91	24.12	23.28	23.93
15	64QAM	1	0	24.24	24.04	24.21	23.63	23.73	24.24	24.04	24.21	23.63	23.73
15	64QAM	1	37	24.08	24.10	24.03	23.45	24.13	24.08	24.10	24.03	23.45	24.13
15	64QAM	1	74	24.18	24.07	23.96	23.26	24.10	24.18	24.07	23.96	23.26	24.10
15	64QAM	36	0	23.28	23.10	23.18	22.55	23.04	23.28	23.10	23.18	22.55	23.04
15	64QAM	36	20	23.24	23.14	23.16	22.43	23.16	23.24	23.14	23.16	22.43	23.16
15	64QAM	36	39	23.25	23.10	23.05	22.21	23.23	23.25	23.10	23.05	22.21	23.23
15	64QAM	75	0	23.31	22.94	23.14	22.29	23.13	23.31	22.94	23.14	22.29	23.13
Channel				39700	40160	40620	39700	40160	40620	41080	41540	39700	40160
Frequency (MHz)				2501	2547	2593	2501	2547	2593	2639	2685	2501	2547
10	QPSK	1	0	26.03	25.79	26.00	25.19	25.92	26.03	25.79	26.00	25.19	25.92
10	QPSK	1	25	25.98	25.94	25.91	25.29	26.00	25.98	25.94	25.91	25.29	26.00
10	QPSK	1	49	25.93	25.92	25.83	25.10	26.07	25.93	25.92	25.83	25.10	26.07
10	QPSK	25	0	25.14	24.84	25.07	24.26	25.09	25.14	24.84	25.07	24.26	25.09
10	QPSK	25	12	25.13	24.87	25.02	24.20	25.11	25.13	24.87	25.02	24.20	25.11
10	QPSK	25	25	25.09	24.88	25.00	24.11	25.09	25.09	24.88	25.00	24.11	25.09
10	QPSK	50	0	25.15	24.54	25.04	23.96	24.99	25.15	24.54	25.04	23.96	24.99
10	16QAM	1	0	25.36	25.06	25.31	24.56	25.23	25.36	25.06	25.31	24.56	25.23
10	16QAM	1	25	25.33	25.12	25.24	24.42	25.32	25.33	25.12	25.24	24.42	25.32
10	16QAM	1	49	25.29	25.14	25.16	24.39	25.38	25.29	25.14	25.16	24.39	25.38
10	16QAM	25	0	24.27	24.06	24.20	23.43	24.22	24.27	24.06	24.20	23.43	24.22
10	16QAM	25	12	24.26	24.10	24.13	23.39	24.23	24.26	24.10	24.13	23.39	24.23
10	16QAM	25	25	24.20	24.07	24.08	23.30	24.19	24.20	24.07	24.08	23.30	24.19
10	16QAM	50	0	24.25	23.84	24.16	23.17	24.17	24.25	23.84	24.16	23.17	24.17



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10	64QAM	1	0	24.20	23.99	24.13	23.40	24.24	24.20	23.99	24.13	23.40	24.24
10	64QAM	1	25	24.13	24.18	24.06	23.51	24.15	24.13	24.18	24.06	23.51	24.15
10	64QAM	1	49	24.08	24.08	23.98	23.25	24.22	24.08	24.08	23.98	23.25	24.22
10	64QAM	25	0	23.33	23.17	23.23	22.52	23.28	23.33	23.17	23.23	22.52	23.28
10	64QAM	25	12	23.32	23.21	23.20	22.45	23.29	23.32	23.21	23.20	22.45	23.29
10	64QAM	25	25	23.25	23.22	23.13	22.36	23.27	23.25	23.22	23.13	22.36	23.27
10	64QAM	50	0	23.24	23.02	23.11	22.24	23.19	23.24	23.02	23.11	22.24	23.19
Channel				39675	40148	40620	39675	40148	40620	41093	41565	39675	40148
Frequency (MHz)				2498.5	2545.8	2593	2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8
5	QPSK	1	0	26.00	25.73	25.92	25.12	26.04	26.00	25.73	25.92	25.12	26.04
5	QPSK	1	12	25.99	25.73	25.89	25.05	26.00	25.99	25.73	25.89	25.05	26.00
5	QPSK	1	24	25.93	25.73	25.81	25.03	25.94	25.93	25.73	25.81	25.03	25.94
5	QPSK	12	0	25.15	24.97	25.02	24.25	25.11	25.15	24.97	25.02	24.25	25.11
5	QPSK	12	7	25.14	25.00	25.04	24.26	25.09	25.14	25.00	25.04	24.26	25.09
5	QPSK	12	13	25.13	24.97	25.00	24.24	25.06	25.13	24.97	25.00	24.24	25.06
5	QPSK	25	0	25.12	24.72	24.97	24.07	25.07	25.12	24.72	24.97	24.07	25.07
5	16QAM	1	0	25.30	25.03	25.25	24.38	25.33	25.30	25.03	25.25	24.38	25.33
5	16QAM	1	12	25.34	24.92	25.24	24.30	25.33	25.34	24.92	25.24	24.30	25.33
5	16QAM	1	24	25.28	25.06	25.18	24.28	25.26	25.28	25.06	25.18	24.28	25.26
5	16QAM	12	0	24.25	24.10	24.15	23.39	24.22	24.25	24.10	24.15	23.39	24.22
5	16QAM	12	7	24.25	24.13	24.13	23.39	24.21	24.25	24.13	24.13	23.39	24.21
5	16QAM	12	13	24.20	24.12	24.09	23.37	24.16	24.20	24.12	24.09	23.37	24.16
5	16QAM	25	0	24.24	24.04	24.12	23.30	24.20	24.24	24.04	24.12	23.30	24.20
5	64QAM	1	0	24.13	23.96	24.07	23.35	24.17	24.13	23.96	24.07	23.35	24.17
5	64QAM	1	12	24.11	24.17	24.05	23.37	24.17	24.11	24.17	24.05	23.37	24.17
5	64QAM	1	24	24.10	24.05	24.01	23.28	24.12	24.10	24.05	24.01	23.28	24.12
5	64QAM	12	0	23.28	23.20	23.18	22.45	23.28	23.28	23.20	23.18	22.45	23.28
5	64QAM	12	7	23.28	23.18	23.19	22.40	23.27	23.28	23.18	23.19	22.40	23.27
5	64QAM	12	13	23.24	23.27	23.13	22.43	23.23	23.24	23.27	23.13	22.43	23.23
5	64QAM	25	0	23.28	23.19	23.18	22.37	23.25	23.28	23.19	23.18	22.37	23.25

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Power Selection				Head									
Transmit Antenna				UAT					LAT				
Max. Power				23.0					26.5				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	22.89	22.99	22.94	23.00	22.06	26.12	25.69	26.08	25.21	25.10
20	QPSK	1	49	22.86	22.97	22.83	22.99	22.00	25.92	25.91	25.85	25.41	25.20
20	QPSK	1	99	22.83	22.97	22.93	22.96	22.01	25.96	25.92	25.85	24.92	25.30
20	QPSK	50	0	22.81	22.99	22.89	22.94	21.98	25.19	24.74	25.13	24.30	24.94
20	QPSK	50	24	22.88	22.97	22.86	22.92	21.92	25.23	24.78	25.03	24.21	25.14
20	QPSK	50	50	22.78	22.95	22.87	22.95	21.92	25.12	24.83	24.92	23.95	25.40
20	QPSK	100	0	22.83	22.91	22.89	22.92	21.93	25.21	24.37	25.01	23.77	24.79
20	16QAM	1	0	22.78	22.97	22.92	22.97	21.93	25.46	25.02	25.44	24.53	24.52
20	16QAM	1	49	22.85	22.94	22.85	22.94	21.99	25.28	25.27	25.20	24.90	25.68
20	16QAM	1	99	22.80	22.93	22.92	22.99	22.00	25.28	25.22	25.17	24.30	24.65
20	16QAM	50	0	22.84	22.94	22.85	22.97	21.94	24.30	23.98	24.22	23.50	24.11
20	16QAM	50	24	22.80	22.99	22.85	22.98	21.94	24.32	23.99	24.15	23.37	24.44
20	16QAM	50	50	22.79	22.94	22.87	22.96	21.99	24.25	24.04	24.04	23.20	24.50
20	16QAM	100	0	22.87	22.98	22.85	22.94	21.91	24.33	23.64	24.13	23.14	23.97
20	64QAM	1	0	22.84	22.91	22.90	22.91	21.98	25.35	24.99	25.35	24.55	24.54
20	64QAM	1	49	22.80	22.98	22.85	22.99	22.01	25.16	25.02	25.11	24.44	25.61
20	64QAM	1	99	22.79	22.90	22.91	22.91	21.95	25.15	25.13	25.06	24.19	24.54
20	64QAM	50	0	22.85	22.91	22.85	22.97	21.96	24.23	23.89	24.17	23.44	24.11
20	64QAM	50	24	22.84	22.91	22.90	22.90	21.99	24.26	23.93	24.09	23.28	24.39
20	64QAM	50	50	22.81	22.94	22.91	22.96	21.92	24.20	24.04	23.96	23.12	24.45
20	64QAM	100	0	22.82	22.94	22.85	22.93	21.91	24.34	23.67	24.16	23.26	24.14
Channel				39725	40173	40620	41068	41515	39725	40173	40620	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	2503.5	2548.3	2593	2503.5	2548.3
15	QPSK	1	0	22.79	22.94	22.85	22.92	21.94	26.08	25.98	26.05	25.47	25.59
15	QPSK	1	37	22.79	22.92	22.88	22.97	21.98	26.03	26.11	25.94	25.41	26.07
15	QPSK	1	74	22.83	22.94	22.84	22.98	22.01	26.03	26.02	25.91	25.16	26.01
15	QPSK	36	0	22.78	22.92	22.85	22.96	21.92	25.17	24.81	25.10	24.30	24.70
15	QPSK	36	20	22.79	22.99	22.93	22.93	21.93	25.13	24.84	25.06	24.23	25.03
15	QPSK	36	39	22.82	22.94	22.91	22.98	21.97	25.16	24.91	24.93	24.06	25.12
15	QPSK	75	0	22.83	22.96	22.90	22.96	21.93	25.18	24.62	24.99	23.99	24.65
15	16QAM	1	0	22.80	22.89	22.86	22.92	22.00	25.42	25.15	25.41	24.67	24.76
15	16QAM	1	37	22.84	22.98	22.85	23.00	22.01	25.28	25.19	25.24	24.63	25.29
15	16QAM	1	74	22.82	22.97	22.87	22.97	22.01	25.34	25.22	25.14	24.37	25.25
15	16QAM	36	0	22.87	22.97	22.87	22.93	21.98	24.25	24.02	24.18	23.48	23.94
15	16QAM	36	20	22.86	22.91	22.84	22.92	22.01	24.21	24.06	24.11	23.40	24.11
15	16QAM	36	39	22.82	22.98	22.85	22.90	21.96	24.20	24.03	24.00	23.18	24.20
15	16QAM	75	0	22.87	22.95	22.92	22.95	22.00	24.30	23.91	24.12	23.28	23.93
15	64QAM	1	0	22.80	22.92	22.85	22.93	21.98	24.24	24.04	24.21	23.63	23.73
15	64QAM	1	37	22.83	22.90	22.87	22.99	21.91	24.08	24.10	24.03	23.45	24.13
15	64QAM	1	74	22.80	22.99	22.92	23.00	21.94	24.18	24.07	23.96	23.26	24.10
15	64QAM	36	0	22.82	22.99	22.87	22.97	21.96	23.28	23.10	23.18	22.55	23.04
15	64QAM	36	20	22.84	22.95	22.88	22.93	22.01	23.24	23.14	23.16	22.43	23.16
15	64QAM	36	39	22.86	22.89	22.84	22.90	21.94	23.25	23.10	23.05	22.21	23.23
15	64QAM	75	0	22.81	22.92	22.93	22.91	21.95	23.31	22.94	23.14	22.29	23.13
Channel				39700	40160	40620	41080	41540	39700	40160	40620	41080	41540
Frequency (MHz)				2501	2547	2593	2639	2685	2501	2547	2593	2639	2685
10	QPSK	1	0	22.86	22.95	22.90	22.99	22.01	26.03	25.79	26.00	25.19	25.92
10	QPSK	1	25	22.84	22.91	22.89	22.96	21.96	25.98	25.94	25.91	25.29	26.00
10	QPSK	1	49	22.88	22.92	22.90	22.90	21.92	25.93	25.92	25.83	25.10	26.07
10	QPSK	25	0	22.87	22.91	22.91	22.98	21.97	25.14	24.84	25.07	24.26	25.09
10	QPSK	25	12	22.84	22.94	22.85	22.94	21.98	25.13	24.87	25.02	24.20	25.11
10	QPSK	25	25	22.83	22.90	22.83	22.96	21.97	25.09	24.88	25.00	24.11	25.09
10	QPSK	50	0	22.88	22.94	22.91	22.93	22.00	25.15	24.54	25.04	23.96	24.99
10	16QAM	1	0	22.83	22.89	22.90	22.99	22.01	25.36	25.06	25.31	24.56	25.23
10	16QAM	1	25	22.87	22.94	22.87	22.99	21.93	25.33	25.12	25.24	24.42	25.32
10	16QAM	1	49	22.78	22.97	22.92	22.97	22.01	25.29	25.14	25.16	24.39	25.38
10	16QAM	25	0	22.81	22.93	22.92	22.91	21.97	24.27	24.06	24.20	23.43	24.22
10	16QAM	25	12	22.82	22.94	22.89	22.97	21.98	24.26	24.10	24.13	23.39	24.23
10	16QAM	25	25	22.79	22.97	22.84	22.90	21.93	24.20	24.07	24.08	23.30	24.19
10	16QAM	50	0	22.82	22.94	22.83	22.92	21.98	24.25	23.84	24.16	23.17	24.17



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10	64QAM	1	0	22.84	22.99	22.88	22.98	21.99	24.20	23.99	24.13	23.40	24.24
10	64QAM	1	25	22.80	22.89	22.84	22.95	21.91	24.13	24.18	24.06	23.51	24.15
10	64QAM	1	49	22.82	22.96	22.89	22.92	21.97	24.08	24.08	23.98	23.25	24.22
10	64QAM	25	0	22.81	22.91	22.85	22.91	21.98	23.33	23.17	23.23	22.52	23.28
10	64QAM	25	12	22.78	22.95	22.87	22.92	21.99	23.32	23.21	23.20	22.45	23.29
10	64QAM	25	25	22.78	22.95	22.92	22.94	22.00	23.25	23.22	23.13	22.36	23.27
10	64QAM	50	0	22.87	22.98	22.87	22.97	21.92	23.24	23.02	23.11	22.24	23.19
Channel				39675	40148	40620	41093	41565	39675	40148	40620	41093	41565
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8	2593	2640.30	2687.5
5	QPSK	1	0	22.87	22.97	22.83	22.94	21.94	26.00	25.73	25.92	25.12	26.04
5	QPSK	1	12	22.78	22.92	22.85	22.92	21.98	25.99	25.73	25.89	25.05	26.00
5	QPSK	1	24	22.87	22.89	22.86	23.00	21.93	25.93	25.73	25.81	25.03	25.94
5	QPSK	12	0	22.80	22.99	22.92	22.91	21.99	25.15	24.97	25.02	24.25	25.11
5	QPSK	12	7	22.86	22.92	22.90	23.00	21.95	25.14	25.00	25.04	24.26	25.09
5	QPSK	12	13	22.86	22.97	22.90	22.94	21.99	25.13	24.97	25.00	24.24	25.06
5	QPSK	25	0	22.86	22.97	22.92	22.96	21.99	25.12	24.72	24.97	24.07	25.07
5	16QAM	1	0	22.78	22.92	22.89	22.97	21.97	25.30	25.03	25.25	24.38	25.33
5	16QAM	1	12	22.80	22.95	22.86	22.91	21.92	25.34	24.92	25.24	24.30	25.33
5	16QAM	1	24	22.82	22.91	22.88	22.95	21.92	25.28	25.06	25.18	24.28	25.26
5	16QAM	12	0	22.80	22.92	22.83	22.96	22.01	24.25	24.10	24.15	23.39	24.22
5	16QAM	12	7	22.84	22.99	22.89	22.94	22.01	24.25	24.13	24.13	23.39	24.21
5	16QAM	12	13	22.80	22.97	22.93	22.97	21.92	24.20	24.12	24.09	23.37	24.16
5	16QAM	25	0	22.85	22.94	22.92	22.93	21.99	24.24	24.04	24.12	23.30	24.20
5	64QAM	1	0	22.84	22.97	22.89	22.91	21.97	24.13	23.96	24.07	23.35	24.17
5	64QAM	1	12	22.78	22.94	22.92	22.98	21.98	24.11	24.17	24.05	23.37	24.17
5	64QAM	1	24	22.86	22.95	22.83	22.98	21.95	24.10	24.05	24.01	23.28	24.12
5	64QAM	12	0	22.88	22.99	22.88	22.94	22.00	23.28	23.20	23.18	22.45	23.28
5	64QAM	12	7	22.80	22.90	22.83	22.94	21.99	23.28	23.18	23.19	22.40	23.27
5	64QAM	12	13	22.86	22.94	22.89	22.94	21.96	23.24	23.27	23.13	22.43	23.23
5	64QAM	25	0	22.87	22.91	22.93	22.95	22.00	23.28	23.19	23.18	22.37	23.25

Power Selection				Hotspot / Body-worn / Product Specific									
Transmit Antenna				UAT					LAT				
Max. Power				26.5					26.5				
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490	39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	26.12	25.69	26.08	25.21	25.10	26.12	25.69	26.08	25.21	25.10
20	QPSK	1	49	25.92	25.91	25.85	25.41	25.20	25.92	25.91	25.85	25.41	25.20
20	QPSK	1	99	25.96	25.92	25.85	24.92	25.30	25.96	25.92	25.85	24.92	25.30
20	QPSK	50	0	25.19	24.74	25.13	24.30	24.94	25.19	24.74	25.13	24.30	24.94
20	QPSK	50	24	25.23	24.78	25.03	24.21	25.14	25.23	24.78	25.03	24.21	25.14
20	QPSK	50	50	25.12	24.83	24.92	23.95	25.40	25.12	24.83	24.92	23.95	25.40
20	QPSK	100	0	25.21	24.37	25.01	23.77	24.79	25.21	24.37	25.01	23.77	24.79
20	16QAM	1	0	25.46	25.02	25.44	24.53	24.52	25.46	25.02	25.44	24.53	24.52
20	16QAM	1	49	25.28	25.27	25.20	24.90	25.68	25.28	25.27	25.20	24.90	25.68
20	16QAM	1	99	25.28	25.22	25.17	24.30	24.65	25.28	25.22	25.17	24.30	24.65
20	16QAM	50	0	24.30	23.98	24.22	23.50	24.11	24.30	23.98	24.22	23.50	24.11
20	16QAM	50	24	24.32	23.99	24.15	23.37	24.44	24.32	23.99	24.15	23.37	24.44
20	16QAM	50	50	24.25	24.04	24.04	23.20	24.50	24.25	24.04	24.04	23.20	24.50
20	16QAM	100	0	24.33	23.64	24.13	23.14	23.97	24.33	23.64	24.13	23.14	23.97
20	64QAM	1	0	25.35	24.99	25.35	24.55	24.54	25.35	24.99	25.35	24.55	24.54
20	64QAM	1	49	25.16	25.02	25.11	24.44	25.61	25.16	25.02	25.11	24.44	25.61
20	64QAM	1	99	25.15	25.13	25.06	24.19	24.54	25.15	25.13	25.06	24.19	24.54
20	64QAM	50	0	24.23	23.89	24.17	23.44	24.11	24.23	23.89	24.17	23.44	24.11
20	64QAM	50	24	24.26	23.93	24.09	23.28	24.39	24.26	23.93	24.09	23.28	24.39
20	64QAM	50	50	24.20	24.04	23.96	23.12	24.45	24.20	24.04	23.96	23.12	24.45
20	64QAM	100	0	24.34	23.67	24.16	23.26	24.14	24.34	23.67	24.16	23.26	24.14
Channel				39725	40173	40620	39725	40173	40620	39725	40173	39725	40173
Frequency (MHz)				2503.5	2548.3	2593	2503.5	2548.3	2593	2503.5	2548.3	2503.5	2548.3
15	QPSK	1	0	26.08	25.98	26.05	25.47	25.59	26.08	25.98	26.05	25.47	25.59
15	QPSK	1	37	26.03	26.11	25.94	25.41	26.07	26.03	26.11	25.94	25.41	26.07
15	QPSK	1	74	26.03	26.02	25.91	25.16	26.01	26.03	26.02	25.91	25.16	26.01
15	QPSK	36	0	25.17	24.81	25.10	24.30	24.70	25.17	24.81	25.10	24.30	24.70
15	QPSK	36	20	25.13	24.84	25.06	24.23	25.03	25.13	24.84	25.06	24.23	25.03



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15	QPSK	36	39	25.16	24.91	24.93	24.06	25.12	25.16	24.91	24.93	24.06	25.12
15	QPSK	75	0	25.18	24.62	24.99	23.99	24.65	25.18	24.62	24.99	23.99	24.65
15	16QAM	1	0	25.42	25.15	25.41	24.67	24.76	25.42	25.15	25.41	24.67	24.76
15	16QAM	1	37	25.28	25.19	25.24	24.63	25.29	25.28	25.19	25.24	24.63	25.29
15	16QAM	1	74	25.34	25.22	25.14	24.37	25.25	25.34	25.22	25.14	24.37	25.25
15	16QAM	36	0	24.25	24.02	24.18	23.48	23.94	24.25	24.02	24.18	23.48	23.94
15	16QAM	36	20	24.21	24.06	24.11	23.40	24.11	24.21	24.06	24.11	23.40	24.11
15	16QAM	36	39	24.20	24.03	24.00	23.18	24.20	24.20	24.03	24.00	23.18	24.20
15	16QAM	75	0	24.30	23.91	24.12	23.28	23.93	24.30	23.91	24.12	23.28	23.93
15	64QAM	1	0	24.24	24.04	24.21	23.63	23.73	24.24	24.04	24.21	23.63	23.73
15	64QAM	1	37	24.08	24.10	24.03	23.45	24.13	24.08	24.10	24.03	23.45	24.13
15	64QAM	1	74	24.18	24.07	23.96	23.26	24.10	24.18	24.07	23.96	23.26	24.10
15	64QAM	36	0	23.28	23.10	23.18	22.55	23.04	23.28	23.10	23.18	22.55	23.04
15	64QAM	36	20	23.24	23.14	23.16	22.43	23.16	23.24	23.14	23.16	22.43	23.16
15	64QAM	36	39	23.25	23.10	23.05	22.21	23.23	23.25	23.10	23.05	22.21	23.23
15	64QAM	75	0	23.31	22.94	23.14	22.29	23.13	23.31	22.94	23.14	22.29	23.13
Channel				39700	40160	40620	39700	40160	40620	41080	41540	39700	40160
Frequency (MHz)				2501	2547	2593	2501	2547	2593	2639	2685	2501	2547
10	QPSK	1	0	26.03	25.79	26.00	25.19	25.92	26.03	25.79	26.00	25.19	25.92
10	QPSK	1	25	25.98	25.94	25.91	25.29	26.00	25.98	25.94	25.91	25.29	26.00
10	QPSK	1	49	25.93	25.92	25.83	25.10	26.07	25.93	25.92	25.83	25.10	26.07
10	QPSK	25	0	25.14	24.84	25.07	24.26	25.09	25.14	24.84	25.07	24.26	25.09
10	QPSK	25	12	25.13	24.87	25.02	24.20	25.11	25.13	24.87	25.02	24.20	25.11
10	QPSK	25	25	25.09	24.88	25.00	24.11	25.09	25.09	24.88	25.00	24.11	25.09
10	QPSK	50	0	25.15	24.54	25.04	23.96	24.99	25.15	24.54	25.04	23.96	24.99
10	16QAM	1	0	25.36	25.06	25.31	24.56	25.23	25.36	25.06	25.31	24.56	25.23
10	16QAM	1	25	25.33	25.12	25.24	24.42	25.32	25.33	25.12	25.24	24.42	25.32
10	16QAM	1	49	25.29	25.14	25.16	24.39	25.38	25.29	25.14	25.16	24.39	25.38
10	16QAM	25	0	24.27	24.06	24.20	23.43	24.22	24.27	24.06	24.20	23.43	24.22
10	16QAM	25	12	24.26	24.10	24.13	23.39	24.23	24.26	24.10	24.13	23.39	24.23
10	16QAM	25	25	24.20	24.07	24.08	23.30	24.19	24.20	24.07	24.08	23.30	24.19
10	16QAM	50	0	24.25	23.84	24.16	23.17	24.17	24.25	23.84	24.16	23.17	24.17
10	64QAM	1	0	24.20	23.99	24.13	23.40	24.24	24.20	23.99	24.13	23.40	24.24
10	64QAM	1	25	24.13	24.18	24.06	23.51	24.15	24.13	24.18	24.06	23.51	24.15
10	64QAM	1	49	24.08	24.08	23.98	23.25	24.22	24.08	24.08	23.98	23.25	24.22
10	64QAM	25	0	23.33	23.17	23.23	22.52	23.28	23.33	23.17	23.23	22.52	23.28
10	64QAM	25	12	23.32	23.21	23.20	22.45	23.29	23.32	23.21	23.20	22.45	23.29
10	64QAM	25	25	23.25	23.22	23.13	22.36	23.27	23.25	23.22	23.13	22.36	23.27
10	64QAM	50	0	23.24	23.02	23.11	22.24	23.19	23.24	23.02	23.11	22.24	23.19
Channel				39675	40148	40620	39675	40148	40620	41093	41565	39675	40148
Frequency (MHz)				2498.5	2545.8	2593	2498.5	2545.8	2593	2640.30	2687.5	2498.5	2545.8
5	QPSK	1	0	26.00	25.73	25.92	25.12	26.04	26.00	25.73	25.92	25.12	26.04
5	QPSK	1	12	25.99	25.73	25.89	25.05	26.00	25.99	25.73	25.89	25.05	26.00
5	QPSK	1	24	25.93	25.73	25.81	25.03	25.94	25.93	25.73	25.81	25.03	25.94
5	QPSK	12	0	25.15	24.97	25.02	24.25	25.11	25.15	24.97	25.02	24.25	25.11
5	QPSK	12	7	25.14	25.00	25.04	24.26	25.09	25.14	25.00	25.04	24.26	25.09
5	QPSK	12	13	25.13	24.97	25.00	24.24	25.06	25.13	24.97	25.00	24.24	25.06
5	QPSK	25	0	25.12	24.72	24.97	24.07	25.07	25.12	24.72	24.97	24.07	25.07
5	16QAM	1	0	25.30	25.03	25.25	24.38	25.33	25.30	25.03	25.25	24.38	25.33
5	16QAM	1	12	25.34	24.92	25.24	24.30	25.33	25.34	24.92	25.24	24.30	25.33
5	16QAM	1	24	25.28	25.06	25.18	24.28	25.26	25.28	25.06	25.18	24.28	25.26
5	16QAM	12	0	24.25	24.10	24.15	23.39	24.22	24.25	24.10	24.15	23.39	24.22
5	16QAM	12	7	24.25	24.13	24.13	23.39	24.21	24.25	24.13	24.13	23.39	24.21
5	16QAM	12	13	24.20	24.12	24.09	23.37	24.16	24.20	24.12	24.09	23.37	24.16
5	16QAM	25	0	24.24	24.04	24.12	23.30	24.20	24.24	24.04	24.12	23.30	24.20
5	64QAM	1	0	24.13	23.96	24.07	23.35	24.17	24.13	23.96	24.07	23.35	24.17
5	64QAM	1	12	24.11	24.17	24.05	23.37	24.17	24.11	24.17	24.05	23.37	24.17
5	64QAM	1	24	24.10	24.05	24.01	23.28	24.12	24.10	24.05	24.01	23.28	24.12
5	64QAM	12	0	23.28	23.20	23.18	22.45	23.28	23.28	23.20	23.18	22.45	23.28
5	64QAM	12	7	23.28	23.18	23.19	22.40	23.27	23.28	23.18	23.19	22.40	23.27
5	64QAM	12	13	23.24	23.27	23.13	22.43	23.23	23.24	23.27	23.13	22.43	23.23
5	64QAM	25	0	23.28	23.19	23.18	22.37	23.25	23.28	23.19	23.18	22.37	23.25

<LTE Carrier Aggregation combinations>**General Note:**

1. This device supports Carrier Aggregation on downlink only for inter and intra band, Uplink CA is not supported. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.
3. All permutations exist. No restrictions on Pcell & SCell combinations. Only LTE Band 29 and LTE Band 46 is limited to SCell.

2CC					3CC				
Number	Combination	Restriction	4*4 MIMO	Covered by Measurement Superset	Number	Combination	Restriction	4*4 MIMO	Covered by Measurement Superset
1	2A_2A		2A-2A 4*4MIMO	3CC-1	1	2A_2A_5A		2A 4*4MIMO	4CC-2
2	2A_4A		2A-4A 4*4MIMO	3CC-5	2	2A_2A_13A		2A 4*4MIMO	4CC-7
3	2A_5A		2A 4*4MIMO	3CC-1	3	2A_2A_66A		2A · 66A 4*4MIMO	4CC-3
4	2A_7A			3CC-12	4	2A_2A_71A		2A 4*4MIMO	4CC-4
5	2A_12A		2A 4*4MIMO	3CC-14	5	2A_4A_5A		2A · 4A 4*4MIMO	
6	2A_13A		2A 4*4MIMO	3CC-16	6	2A_4A_7A			4CC-11
7	2A_29A	B29 SCC only	2A 4*4MIMO	3CC-17	7	2A_4A_12A		2A · 4A 4*4MIMO	
8	2A_30A			3CC-10	8	2A_4A_13A		2A · 4A 4*4MIMO	
9	2A_46A	B46 SCC only	2A 4*4MIMO	3CC-18	9	2A_4A_71A		2A · 4A 4*4MIMO	4CC-10
10	2A_66A		2A-66A 4*4MIMO	3CC-3	10	2A_5A_30A			4CC-2
11	2A_71A		2A 4*4MIMO	3CC-4	11	2A_5A_66A		2A · 66A 4*4MIMO	4CC-3
12	4A_4A		4A-4A 4*4MIMO	3CC-25	12	2A_7A_7A			4CC-11
13	4A_5A		4A 4*4MIMO	3CC-25	13	2A_7A_12A			
14	4A_7A			3CC-30	14	2A_12A_30A			4CC-5
15	4A_12A		4A 4*4MIMO	3CC-31	15	2A_12B		2A 4*4MIMO	4CC-16
16	4A_13A		4A 4*4MIMO	3CC-27	16	2A_13A_66A		2A · 66A 4*4MIMO	4CC-7
17	4A_29A	B29 SCC only	4A 4*4MIMO	3CC-33	17	2A_29A_30A			
18	4A_30A			3CC-29	18	2A_46A_46A	B46 SCC only	2A 4*4MIMO	4CC-22
19	4A_46A	B46 SCC only	4A 4*4MIMO	3CC-34	19	2A_46A_66A	B46 SCC only	2A · 66A 4*4MIMO	4CC-22
20	4A_71A		4A 4*4MIMO	3CC-28	20	2A_46C	B46 SCC only	2A 4*4MIMO	4CC-24
21	5A_30A			3CC-29	21	2A_66A_66A		2A · 66A 4*4MIMO	4CC-26
22	5A_66A		66A 4*4MIMO	3CC-36	22	2A_66A_71A		2A · 66A 4*4MIMO	4CC-26
23	5B				23	2A_66B		2A-66B 4*4MIMO	4CC-26
24	7A_7A		7A-7A 4*4MIMO	3CC-12	24	2A_66C		2A-66C 4*4MIMO	4CC-28
25	7A_12A		7A 4*4MIMO	3CC-13	25	4A_4A_5A		4A 4*4MIMO	
26	12A_30A			3CC-14	26	4A_4A_12A		4A 4*4MIMO	
27	12A_66A		66A 4*4MIMO	4CC-6	27	4A_4A_13A		4A 4*4MIMO	
28	12B			3CC-32	28	4A_4A_71A		4A 4*4MIMO	4CC-10
29	13A_46A			4CC-33	29	4A_5A_30A			
30	13A_66A		66A 4*4MIMO	3CC-41	30	4A_7A_12A			
31	25A_25A		25A-25A 4*4MIMO		31	4A_12A_30A			
32	25A_26A		25A 4*4MIMO		32	4A_12B		4A 4*4MIMO	
33	25A_41A			4CC-34	33	4A_29A_30A			
34	29A_30A			3CC-33	34	4A_46A_46A	B46 SCC only	4A 4*4MIMO	4CC-29
35	29A_66A		66A 4*4MIMO		35	4A_46C	B46 SCC only	4A 4*4MIMO	4CC-30
36	30A_66A			4CC-31	36	5A_66A_66A		66A 4*4MIMO	4CC-31
37	41A_41A		41A-41A 4*4MIMO	3CC-46	37	5A_66B		66B 4*4MIMO	4CC-14
38	41C		41C 4*4MIMO	3CC-44	38	5A_66C		66C 4*4MIMO	4CC-15
39	46A_66A		66A 4*4MIMO	3CC-19	39	7A_12B		7A 4*4MIMO	
40	66A_66A		66A-66A 4*4MIMO	3CC-21	40	13A_46C	B46 SCC only		4CC-33
41	66A_71A		66A 4*4MIMO	3CC-22	41	13A_66A_66A		66A 4*4MIMO	4CC-19
42	66B		66B 4*4MIMO	3CC-23	42	13_66B		66B 4*4MIMO	4CC-20
43	66C		66C 4*4MIMO	3CC-24	43	13A_66C		66C 4*4MIMO	4CC-21
					44	25A_41C			4CC-34
					45	41D		41D 4*4MIMO	4CC-35
					46	41A_41C		41A-41C 4*4MIMO	4CC-34
					47	46A_46A_66A	B46 SCC only	66A 4*4MIMO	4CC-22
					48	46C_66A	B46 SCC only	66A 4*4MIMO	4CC-24
					49	66A_66A_71A		66A 4*4MIMO	4CC-26
					50	66A_66C		66A-66C 4*4MIMO	
					51	66C_71A		66C 4*4MIMO	4CC-28



4CC					5CC				
Number	Combination	Restriction	4*4 MIMO	Covered by Measurement Superset	Number	Combination	Restriction	4*4 MIMO	Covered by Measurement Superset
1	2A 2A 4A 71A				1	2A 46A 46C 66A	B46 SCC only		
2	2A 2A 5A 30A				2	2A 46D 66A	B46 SCC only		
3	2A 2A 5A 66A				3	4A 46A 46D	B46 SCC only		
4	2A 2A 66A 71A				4	13A-46E			
5	2A 2A 12A 30A				5	46E 66A	B46 SCC only		
6	2A 2A 12A 66A								
7	2A 2A 13A 66A								
8	2A 2A 66A 66A			5CC-1					
9	2A 2A 66C		66C 4*4MIMO	5CC-1					
10	2A 4A 4A 71A								
11	2A 4A 7A 7A								
12	2A 5A 30A 66A								
13	2A 5A 66A 66A								
14	2A 5A 66B		66B 4*4MIMO						
15	2A 5A 66C		66C 4*4MIMO						
16	2A 12A 30A 66A								
17	2A 12A 66A 66A								
18	2A 12A 66C		66C 4*4MIMO						
19	2A 13A 66A 66A								
20	2A 13A 66B		66B 4*4MIMO						
21	2A 13A 66C		66C 4*4MIMO						
22	2A 46A 46A 66A	B46 SCC only		5CC-1					
23	2A 46A 46C	B46 SCC only	2A 4*4MIMO	5CC-1					
24	2A 46C 66A	B46 SCC only	2A 66A 4*4MIMO	5CC-1					
25	2A 46D	B46 SCC only	2A 4*4MIMO	5CC-2					
26	2A 66A 66A 71A								
27	2C 66A 66A		2C 4*4MIMO	5CC-1					
28	2A 66C 71A		66C 4*4MIMO						
29	4A 46A 46C	B46 SCC only	4A 4*4MIMO	5CC-3					
30	4A 46D	B46 SCC only	4A 4*4MIMO	5CC-3					
31	5A 30A 66A 66A								
32	12A 30A 66A 66A								
33	13A 46D	B46 SCC only		5CC-4					
34	25A 41A 41C								
35	25A 41D								
36	41A 41D		41A 4*4MIMO						
37	46A 46C 66A	B46 SCC only	66A 4*4MIMO	5CC-1					
38	46D 66A	B46 SCC only	66A 4*4MIMO	5CC-2					

<Power verification when LTE Carrier Aggregation Active>
General Note:

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vi. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1 |BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

<Two Carrier power verification>

Configure		PCC						SCC				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		25	20	1880	26340	QPSK	1	0	26	15	876.5	8865	23.35	23.39
		25(4X4MIMO)	20	1880	26340	QPSK	1	0	26	15	876.5	8865	23.32	23.39
		26	15	841.5	26965	QPSK	1	0	25	20	1960	8340	24.31	24.32
		66	20	1745	132322	QPSK	1	0	29	10	722.5	9715	22.98	23.03
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	29	10	722.5	9715	23.01	23.03
Intra-Band	Non-Contiguous	25	20	1880	26340	QPSK	1	0	25	5	1992.5	8665	23.33	23.39
		25(4X4MIMO)	20	1880	26340	QPSK	1	0	25	5	1992.5	8665	23.36	23.39
	Contiguous	5	10	844	20600	QPSK	1	0	5	5	881.80	2528	23.88	23.91



<Three Carrier power verification>

Configure		PCC							SCC1				SCC2				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.67	23.69
		2(4X4MIMO)	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.63	23.69
		4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	5	5	881.5	2525	23.09	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	2	20	1960	900	5	5	881.5	2525	23.14	23.17
		5	10	844	20600	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	23.86	23.91
		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.69	23.69
		2(4X4MIMO)	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.62	23.69
		4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	23.11	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	23.16	23.17
		12	10	711	23130	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	23.75	23.81
		2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	23.63	23.69
		2(4X4MIMO)	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	23.62	23.69
		4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	13	10	751	5230	23.09	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	2	20	1960	900	13	10	751	5230	23.15	23.17
		13	10	782	23230	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	23.58	23.60
		2	20	1880	18900	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	23.62	23.69
		7	20	2535	21100	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	23.06	23.13
		12	10	711	23130	QPSK	1	0	2	20	1960	900	7	20	2655	3100	23.78	23.81
		2	20	1880	18900	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	23.59	23.69
		30	10	2310	27710	QPSK	1	0	2	20	1960	900	29	10	722.5	9715	23.18	23.19
		4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	23.15	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	5	10	881.5	2525	23.08	23.17
		5	10	844	20600	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	23.89	23.91
		4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	23.11	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	12	10	737.5	5095	23.14	23.17
		12	10	711	23130	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	23.74	23.81
		4	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	13	10	751	5230	23.13	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	4	5	2152.5	2375	13	10	751	5230	23.11	23.17
		13	10	782	23230	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	23.51	23.60
		4	20	1732.5	20175	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	23.10	23.17
		5	10	844	20600	QPSK	1	0	4	20	2132.5	2175	30	10	2355	9820	23.90	23.91
		30	10	2310	27710	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.14	23.19
		4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	23.11	23.17
		7	20	2535	21100	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.10	23.13
		12	10	711	23130	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	23.80	23.81
		4	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	23.07	23.17
		12	10	711	23130	QPSK	1	0	4	20	2132.5	2175	30	10	2355	9820	23.77	23.81
		30	10	2310	27710	QPSK	1	0	4	20	2132.5	2175	12	10	737.5	5095	23.19	23.19
		4	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.15	23.17
		4(4X4MIMO)	20	1732.5	20175	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.09	23.17
		12	10	711	23130	QPSK	1	0	12	5	733.8	5058	4	20	2132.5	2175	23.80	23.81
		4	20	1732.5	20175	QPSK	1	0	29	10	722.5	9715	30	10	2355	9820	23.08	23.17
		30	10	2310	27710	QPSK	1	0	4	20	2132.5	2175	29	10	722.5	9715	23.17	23.19
		7	20	2535	21100	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.13	23.13
		7(4X4MIMO)	20	2535	21100	QPSK	1	0	12	10	737.5	5095	12	5	730.3	5025	23.06	23.13
		12	10	711	23130	QPSK	1	0	12	5	733.8	5058	7	20	2655	3100	23.77	23.81
Intra-Band	Contiguous	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	22.98	23.03
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	66	20	2185.8	67194	22.96	23.03
		66	20	1745	132322	QPSK	1	0	66	20	2164.8	67084	66	5	2197.5	67311	22.95	23.03
		66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	67084	66	5	2197.5	67311	22.93	23.03



<Four Carrier power verification>

Configure	PCC							SCC1				SCC2				SCC3				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	4	20	2132.5	2175	71	20	637	68786	23.61	23.69
	4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	71	20	637	68786	23.15	23.17
	71	20	673	133222	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	4	20	2132.5	2175	24.39	24.47
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	30	10	2355	9820	23.61	23.69
	5	10	844	20600	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	30	10	2355	9820	23.85	23.91
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	5	10	881.5	2525	23.17	23.19
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	5	10	881.5	2525	66	20	2155	66886	23.66	23.69
	5	10	844	20600	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	23.84	23.91
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	5	10	881.5	2525	22.93	23.03
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	66	20	2155	66886	71	20	637	68786	23.66	23.69
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	71	20	637	68786	22.99	23.03
	71	20	673	133222	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	24.38	24.47
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	30	10	2355	9820	23.68	23.69
	12	10	711	23130	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	30	10	2355	9820	23.76	23.81
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	12	10	737.5	5095	23.16	23.19
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	12	10	737.5	5095	66	20	2155	66886	23.67	23.69
	12	10	711	23130	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	23.72	23.81
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	12	10	737.5	5095	22.99	23.03
	2	20	1880	18900	QPSK	1	0	2	5	1987.5	1175	13	10	751	5230	66	20	2155	66886	23.65	23.69
	13	10	782	23230	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	66	20	2155	66886	23.56	23.60
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	2	5	1987.5	1175	13	10	751	5230	23.00	23.03
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	4	5	2152.5	2375	71	20	637	68786	23.66	23.69
	4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	4	5	2152.5	2375	71	20	637	68786	23.07	23.17
	71	20	673	133222	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	4	5	2152.5	2375	24.39	24.47
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	7	5	2687.5	3425	23.64	23.69
	4	20	1732.5	20175	QPSK	1	0	2	20	1960	900	7	20	2655	3100	7	5	2687.5	3425	23.12	23.17
	7	20	2535	21100	QPSK	1	0	2	20	1960	900	4	20	2132.5	2175	7	5	2687.5	3425	23.06	23.13
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	66	20	2155	66886	23.64	23.69
	5	10	844	20600	QPSK	1	0	2	20	1960	900	30	10	2355	9820	66	20	2155	66886	23.83	23.91
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	66	20	2155	66886	23.09	23.19
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	5	10	881.5	2525	30	10	2355	9820	22.95	23.03
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	15	2155	66886	66	5	2164.3	66979	23.64	23.69
	5	10	844	20600	QPSK	1	0	2	20	1960	900	66	15	2155	66886	66	5	2164.3	66979	23.84	23.91
	66	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	5	10	881.5	2525	23.10	23.14
	66(4X4MIMO)	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	5	10	881.5	2525	23.12	23.14
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	66	20	2174.8	67084	23.66	23.69
	5	10	844	20600	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	23.87	23.91
	66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	5	10	881.5	2525	22.97	23.03
	66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	5	10	881.5	2525	22.93	23.03



FCC SAR TEST REPORT

Report No. : FA820502-02

Configure		PCC						SCC1				SCC2				SCC3				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	66	20	2155	66886	23.62	23.69	
	12	10	711	23130	QPSK	1	0	2	20	1960	900	30	10	2355	9820	66	20	2155	66886	23.81	23.81	
	30	10	2310	27710	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	66	20	2155	66886	23.16	23.19	
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	30	10	2355	9820	22.95	23.03	
	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	5	2197.5	67311	23.66	23.69	
	12	10	711	23130	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	5	2197.5	67311	23.81	23.81	
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	12	10	737.5	5095	66	5	2197.5	67311	22.97	23.03	
	2	20	1880	18900	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	20	2174.8	67084	23.65	23.69	
	12	10	711	23130	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	23.78	23.81	
	66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	12	10	737.5	5095	23.03	23.03	
	66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	12	10	737.5	5095	22.98	23.03	
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	5	2197.5	67311	23.65	23.69	
	13	10	782	23230	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	5	2197.5	67311	23.59	23.60	
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	13	10	751	5230	66	5	2197.5	67311	23.00	23.03	
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	15	2155	66886	66	5	2164.3	66979	23.61	23.69	
	13	10	782	23230	QPSK	1	0	2	20	1960	900	66	15	2155	66886	66	5	2164.3	66979	23.51	23.60	
	66	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	13	10	751	5230	23.13	23.14	
	66(4X4MIMO)	15	1717.5	132047	QPSK	1	0	66	5	2126.8	66604	2	20	1960	900	13	10	751	5230	23.13	23.14	
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2174.8	67084	23.59	23.69	
	13	10	782	23230	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	23.52	23.60	
	66	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	13	10	751	5230	23.01	23.03	
	66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	20	2164.8	66984	2	20	1960	900	13	10	751	5230	23.01	23.03	
	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	71	20	637	68786	23.69	23.69	
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	66	20	2174.8	67084	71	20	637	68786	23.03	23.03	
	71	20	673	133222	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	20	2174.8	67084	23.01	23.03	
	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	5	2197.5	67311	71	20	637	68786	23.63	23.69	
	66	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	2	20	1960	900	71	20	637	68786	22.98	23.03	
	66(4X4MIMO)	20	1745	132322	QPSK	1	0	66	5	2197.5	67311	2	20	1960	900	71	20	637	68786	22.98	23.03	
	71	20	673	133222	QPSK	1	0	2	20	1960	900	66	20	2155	66886	66	5	2197.5	67311	22.95	23.03	
	5	10	844	20600	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	23.81	23.91	
	30	10	2310	27710	QPSK	1	0	5	10	881.5	2525	66	20	2155	66886	66	5	2197.5	67311	23.15	23.19	
	66	20	1745	132322	QPSK	1	0	5	10	881.5	2525	30	10	2355	9820	66	5	2197.5	67311	22.93	23.03	
	12	10	711	23130	QPSK	1	0	30	10	2355	9820	66	20	2155	66886	66	5	2197.5	67311	23.73	23.81	
	30	10	2310	27710	QPSK	1	0	12	10	737.5	5095	66	20	2155	66886	66	5	2197.5	67311	23.12	23.19	
	66	20	1745	132322	QPSK	1	0	12	10	737.5	5095	30	10	2355	9820	66	5	2197.5	67311	22.99	23.03	
	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	5	2687.5	41565	41	20	2675.8	41448	23.31	23.39	
	41	20	2549.5	40185	QPSK	1	0	25	20	1960	8340	41	5	2687.5	41565	41	20	2675.8	41448	25.12	25.19	
	41	20	2549.5	40185	QPSK	1	0	41	20	2529.7	40383	25	20	1960	8340	41	5	2687.5	41565	25.14	25.19	
	25	20	1880	26340	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	42736	23.35	23.39	
	41	20	2549.5	40185	QPSK	1	0	41	20	2569.3	40383	41	20	2589.1	40581	25	20	1960	8340	25.12	25.19	
Intra-Band	Non-Contiguous	41	20	2549.5	40185	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	42736	25.16	25.19
		41(4X4MIMO)	20	2549.5	40185	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	42736	25.14	25.19
		41	20	2549.5	40185	QPSK	1	0	41	20	2569.3	40383	41	20	2589.1	40581	41	5	2687.5	41565	25.18	25.19



<Five Carrier power verification>

Configure	PCC							SCC1				SCC2				SCC3				SCC4				Power	
	LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	46	10	5920	54490	46	20	5905.6	54346	66	20	2155	66886	23.67	23.69
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	46	20	5537.5	50665	46	10	5920	54490	46	20	5905.6	54346	23.03	23.03
	2	20	1880	18900	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	66	20	2155	66886	23.60	23.69
	66	20	1745	132322	QPSK	1	0	2	20	1960	900	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	22.98	23.03
	4	20	1732.5	20175	QPSK	1	0	46	20	5537.5	50665	46	10	5920	54490	46	20	5905.6	54346	46	20	5885.8	54148	23.14	23.17
	13	10	782	23230	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	46	20	5596.9	51259	23.59	23.60
	66	20	1745	132322	QPSK	1	0	46	20	5537.5	50665	46	20	5557.3	50863	46	20	5577.1	51061	46	20	5596.9	51259	22.98	23.03

**<WLAN Conducted Power>****General Note:**

1. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is $< 1.6\text{W/kg}$ and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is $\leq 0.4\text{ W/kg}$, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is $> 0.4\text{ W/kg}$, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is $\leq 0.8\text{ W/kg}$ or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is $> 0.8\text{ W/kg}$, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is $\leq 1.2\text{ W/kg}$ or all required channels are tested.



<2.4GHz WLAN>

<WWAN off>

Power Selection				Head													
Transmit Antenna				Ant 5			Ant 4			Ant 4+5							
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	14.20	14.50	100.00	18.50	18.50	100.00	16.75	18.50	17.96	18.50	20.41	21.50	100.00	
		6	2437	14.10	14.50		18.49	18.50		16.60	18.50	17.82	18.50	20.26	21.50		
		11	2462	14.22	14.50		18.45	18.50		16.76	18.50	18.27	18.50	20.59	21.50		
		12	2467	14.04	14.50		16.84	17.00		16.81	17.00	16.95	17.00	19.89	20.00		
		13	2472	14.00	14.50		15.01	15.50		14.92	15.50	15.05	15.50	18.00	18.50		
	802.11g 6Mbps	1	2412	14.24	14.50	98.07	17.78	18.00	97.69	17.60	18.00	17.82	18.00	20.72	21.00	97.73	
		6	2437	14.08	14.50		18.27	18.50		18.22	18.50	18.30	18.50	21.27	21.50		
		10	2457	14.01	14.50		18.25	18.50		18.14	18.50	18.28	18.50	21.22	21.50		
		11	2462	14.23	14.50		15.60	16.00		15.43	16.00	15.62	16.00	18.54	19.00		
		12	2467	8.16	8.50		8.32	8.50		8.20	8.50	8.35	8.50	11.29	11.50		
		13	2472	-1.67	0.00		-1.58	0.00		-1.65	0.00	-1.54	0.00	1.42	3.00		
		802.11n-HT20 MCS0	1	2412	14.20	14.50	97.52	15.65	16.00	97.52	15.44	16.00	15.67	16.00	18.57	19.00	97.56
			6	2437	14.12	14.50		18.24	18.50		18.18	18.50	18.26	18.50	21.23	21.50	
			10	2457	14.09	14.50		18.21	18.50		17.96	18.50	18.24	18.50	21.11	21.50	
			11	2462	13.28	14.00		13.62	14.00		13.29	14.00	13.64	14.00	16.48	17.00	
	12		2467	8.90	9.50	9.16		9.50	8.91		9.50	9.19	9.50	12.06	12.50		
		13	2472	-0.46	0.00		-0.30	0.00		-0.42	0.00	-0.24	0.00	2.68	3.00		
		802.11ac-VHT20 MCS0	1	2412	14.16	14.50	97.56	15.64	16.00	97.58	15.43	16.00	15.66	16.00	18.56	19.00	97.56
			6	2437	14.08	14.50		18.23	18.50		18.15	18.50	18.25	18.50	21.21	21.50	
			10	2457	14.07	14.50		18.22	18.50		17.83	18.50	18.23	18.50	21.04	21.50	
			11	2462	13.26	14.00		13.60	14.00		13.28	14.00	13.62	14.00	16.46	17.00	
12	2467		8.88	9.50	9.15	9.50		8.90	9.50		9.18	9.50	12.05	12.50			
	13	2472	-0.55	0.00		-0.34	0.00		-0.53	0.00	-0.29	0.00	2.60	3.00			



Power Selection				Hotspot / Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.18	19.00	100.00	18.58	19.00	100.00	18.32	19.00	18.61	19.00	21.48	22.00	100.00
		6	2437	19.54	20.00		19.77	20.00		19.55	20.00	19.78	20.00	22.68	23.00	
		11	2462	19.53	20.00		19.74	20.00		19.54	20.00	19.75	20.00	22.66	23.00	
		12	2467	16.73	17.00		16.84	17.00		16.81	17.00	16.95	17.00	19.89	20.00	
		13	2472	14.80	15.50		15.01	15.50		14.92	15.50	15.05	15.50	18.00	18.50	
	802.11g 6Mbps	1	2412	17.45	18.00	98.07	17.78	18.00	97.69	17.60	18.00	17.82	18.00	20.72	21.00	97.73
		6	2437	18.21	18.50		18.27	18.50		18.22	18.50	18.30	18.50	21.27	21.50	
		10	2457	18.02	18.50		18.25	18.50		18.14	18.50	18.28	18.50	21.22	21.50	
		11	2462	15.38	15.50		15.60	16.00		15.43	16.00	15.62	16.00	18.54	19.00	
		12	2467	8.16	8.50		8.32	8.50		8.20	8.50	8.35	8.50	11.29	11.50	
		13	2472	-1.67	0.00		-1.58	0.00		-1.65	0.00	-1.54	0.00	1.42	3.00	
	802.11n-HT20 MCS0	1	2412	15.38	15.50	97.52	15.65	16.00	97.52	15.44	16.00	15.67	16.00	18.57	19.00	97.56
		6	2437	18.13	18.50		18.24	18.50		18.18	18.50	18.26	18.50	21.23	21.50	
		10	2457	17.93	18.50		18.21	18.50		17.96	18.50	18.24	18.50	21.11	21.50	
		11	2462	13.28	14.00		13.62	14.00		13.29	14.00	13.64	14.00	16.48	17.00	
		12	2467	8.90	9.50		9.16	9.50		8.91	9.50	9.19	9.50	12.06	12.50	
		13	2472	-0.46	0.00		-0.30	0.00		-0.42	0.00	-0.24	0.00	2.68	3.00	
	802.11ac-VHT20 MCS0	1	2412	15.37	15.50	97.56	15.64	16.00	97.58	15.43	16.00	15.66	16.00	18.56	19.00	97.56
		6	2437	18.06	18.50		18.23	18.50		18.15	18.50	18.25	18.50	21.21	21.50	
		10	2457	17.91	18.50		18.22	18.50		17.83	18.50	18.23	18.50	21.04	21.50	
		11	2462	13.26	14.00		13.60	14.00		13.28	14.00	13.62	14.00	16.46	17.00	
		12	2467	8.88	9.50		9.15	9.50		8.90	9.50	9.18	9.50	12.05	12.50	
		13	2472	-0.55	0.00		-0.34	0.00		-0.53	0.00	-0.29	0.00	2.60	3.00	



<WWAN on>

Power Selection				Head											
Transmit Antenna				Ant 5			Ant 4			Ant 4+5					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	8.25	8.50	13.40	13.50	100.00	12.20	14.00	13.61	14.00	15.97	17.00	100.00
		6	2437	8.17	8.50				12.22	14.00	13.64	14.00	16.00	17.00	
		11	2462	8.26	8.50				12.18	14.00	13.59	14.00	15.95	17.00	
		12	2467	8.13	8.50				12.17	14.00	13.49	14.00	15.89	17.00	
		13	2472	8.12	8.50				12.14	14.00	13.48	14.00	15.87	17.00	
	802.11g 6Mbps	1	2412	8.25	8.50	13.38	13.50	97.69	12.09	14.00	13.49	14.00	15.86	17.00	97.73
		6	2437	8.12	8.50				12.10	14.00	13.48	14.00	15.85	17.00	
		10	2457	8.07	8.50				12.13	14.00	13.56	14.00	15.91	17.00	
		11	2462	8.21	8.50				12.17	14.00	13.58	14.00	15.94	17.00	
		12	2467	8.16	8.50				8.20	8.50	8.35	8.50	11.29	11.50	
		13	2472	-1.67	0.00				-1.65	0.00	-1.54	0.00	1.42	3.00	
	802.11n-HT20 MCS0	1	2412	8.18	8.50	13.36	13.50	97.52	12.12	14.00	13.55	14.00	15.90	17.00	97.56
		6	2437	8.09	8.50				12.15	14.00	13.51	14.00	15.89	17.00	
		10	2457	8.16	8.50				12.14	14.00	13.49	14.00	15.88	17.00	
		11	2462	8.24	8.50				13.29	14.00	13.64	14.00	16.48	17.00	
		12	2467	8.09	8.50				8.91	9.50	9.19	9.50	12.06	12.50	
		13	2472	-0.46	0.00				-0.42	0.00	-0.24	0.00	2.68	3.00	
	802.11ac-VHT20 MCS0	1	2412	8.23	8.50	13.35	13.50	97.58	12.15	14.00	13.53	14.00	15.90	17.00	97.56
		6	2437	8.10	8.50				12.15	14.00	13.53	14.00	15.90	17.00	
		10	2457	8.16	8.50				12.14	14.00	13.50	14.00	15.88	17.00	
		11	2462	8.18	8.50				13.28	14.00	13.62	14.00	16.46	17.00	
		12	2467	8.11	8.50				8.90	9.50	9.18	9.50	12.05	12.50	
		13	2472	-0.55	0.00				-0.53	0.00	-0.29	0.00	2.60	3.00	



Power Selection				Hotspot / Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.18	19.00	100.00	18.58	19.00	100.00	18.32	19.00	18.61	19.00	21.48	22.00	100.00
		6	2437	19.54	20.00		19.77	20.00		19.55	20.00	19.78	20.00	22.68	23.00	
		11	2462	19.53	20.00		19.74	20.00		19.54	20.00	19.75	20.00	22.66	23.00	
		12	2467	16.73	17.00		16.84	17.00		16.81	17.00	16.95	17.00	19.89	20.00	
		13	2472	14.80	15.50		15.01	15.50		14.92	15.50	15.05	15.50	18.00	18.50	
	802.11g 6Mbps	1	2412	17.45	18.00	98.07	17.78	18.00	97.69	17.60	18.00	17.82	18.00	20.72	21.00	97.73
		6	2437	18.21	18.50		18.27	18.50		18.22	18.50	18.30	18.50	21.27	21.50	
		10	2457	18.02	18.50		18.25	18.50		18.14	18.50	18.28	18.50	21.22	21.50	
		11	2462	15.38	15.50		15.60	16.00		15.43	16.00	15.62	16.00	18.54	19.00	
		12	2467	8.16	8.50		8.32	8.50		8.20	8.50	8.35	8.50	11.29	11.50	
		13	2472	-1.67	0.00		-1.58	0.00		-1.65	0.00	-1.54	0.00	1.42	3.00	
	802.11n-HT20 MCS0	1	2412	15.38	15.50	97.52	15.65	16.00	97.52	15.44	16.00	15.67	16.00	18.57	19.00	97.56
		6	2437	18.13	18.50		18.24	18.50		18.18	18.50	18.26	18.50	21.23	21.50	
		10	2457	17.93	18.50		18.21	18.50		17.96	18.50	18.24	18.50	21.11	21.50	
		11	2462	13.28	14.00		13.62	14.00		13.29	14.00	13.64	14.00	16.48	17.00	
		12	2467	8.90	9.50		9.16	9.50		8.91	9.50	9.19	9.50	12.06	12.50	
		13	2472	-0.46	0.00		-0.30	0.00		-0.42	0.00	-0.24	0.00	2.68	3.00	
	802.11ac-VHT20 MCS0	1	2412	15.37	15.50	97.56	15.64	16.00	97.58	15.43	16.00	15.66	16.00	18.56	19.00	97.56
		6	2437	18.06	18.50		18.23	18.50		18.15	18.50	18.25	18.50	21.21	21.50	
		10	2457	17.91	18.50		18.22	18.50		17.83	18.50	18.23	18.50	21.04	21.50	
		11	2462	13.26	14.00		13.60	14.00		13.28	14.00	13.62	14.00	16.46	17.00	
		12	2467	8.88	9.50		9.15	9.50		8.90	9.50	9.18	9.50	12.05	12.50	
		13	2472	-0.55	0.00		-0.34	0.00		-0.53	0.00	-0.29	0.00	2.60	3.00	



<5GHz WLAN>

<WWAN off>

Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.32	15.00	97.73	15.77	16.00	97.73	14.00	14.00	14.10	14.50	17.06	17.50	97.73
		40	5200	14.32	15.00		15.75	16.00		13.95	14.00	13.85	14.50	16.91	17.50	
		44	5220	14.28	15.00		15.72	16.00		13.95	14.00	13.90	14.50	16.94	17.50	
		48	5240	14.20	15.00		15.65	16.00		13.94	14.00	13.90	14.50	16.93	17.50	
	802.11n-HT20 MCS0	36	5180	14.29	15.00	97.56	15.70	16.00	97.56	13.96	14.00	13.89	14.50	16.94	17.50	97.56
		40	5200	14.28	15.00		15.65	16.00		13.88	14.00	13.91	14.50	16.91	17.50	
		44	5220	14.22	15.00		15.60	16.00		13.94	14.00	13.94	14.50	16.95	17.50	
		48	5240	14.15	15.00		15.41	16.00		13.88	14.00	13.84	14.50	16.87	17.50	
	802.11n-HT40 MCS0	38	5190	12.46	12.50	95.93	12.16	12.50	95.93	12.50	12.50	12.28	12.50	15.44	15.50	95.16
		46	5230	14.33	15.00		15.62	16.00		14.00	14.00	13.96	14.50	16.99	17.50	
	802.11ac-VHT20 MCS0	36	5180	14.21	15.00	97.58	15.66	16.00	97.58	13.89	14.00	13.93	14.50	16.92	17.50	97.56
		40	5200	14.22	15.00		15.52	16.00		13.89	14.00	13.90	14.50	16.91	17.50	
		44	5220	14.18	15.00		15.49	16.00		13.92	14.00	13.86	14.50	16.90	17.50	
		48	5240	14.12	15.00		15.48	16.00		13.89	14.00	13.84	14.50	16.88	17.50	
	802.11ac-VHT40 MCS0	38	5190	12.38	12.50	95.97	12.13	12.50	95.93	12.50	12.50	12.24	12.50	15.41	15.50	95.93
		46	5230	14.33	15.00		15.62	16.00		13.97	14.00	13.94	14.50	16.97	17.50	
	802.11ac-VHT80 MCS0	42	5210	11.71	12.50	92.00	11.48	12.50	91.63	11.78	12.50	11.65	12.50	14.73	15.50	91.20

Power Selection				Hotspot / Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.32	18.50	97.73	18.20	18.50	97.73	18.36	18.50	18.30	18.50	21.34	21.50	97.73
		40	5200	18.30	18.50		18.15	18.50		18.25	18.50	18.18	18.50	21.23	21.50	
		44	5220	18.28	18.50		18.02	18.50		18.30	18.50	18.05	18.50	21.19	21.50	
		48	5240	18.20	18.50		17.95	18.50		18.29	18.50	17.97	18.50	21.14	21.50	
	802.11n-HT20 MCS0	36	5180	18.24	18.50	97.56	18.01	18.50	97.56	18.26	18.50	18.03	18.50	21.15	21.50	97.56
		40	5200	18.23	18.50		17.95	18.50		18.22	18.50	18.02	18.50	21.13	21.50	
		44	5220	18.21	18.50		17.91	18.50		18.22	18.50	17.96	18.50	21.10	21.50	
		48	5240	18.13	18.50		17.73	18.50		18.21	18.50	17.81	18.50	21.02	21.50	
	802.11n-HT40 MCS0	38	5190	12.46	12.50	95.93	12.16	12.50	95.93	12.50	12.50	12.28	12.50	15.44	15.50	95.16
		46	5230	18.35	18.50		17.95	18.50		18.40	18.50	18.03	18.50	21.23	21.50	
	802.11ac-VHT20 MCS0	36	5180	18.21	18.50	97.58	18.00	18.50	97.58	18.25	18.50	18.01	18.50	21.14	21.50	97.56
		40	5200	18.20	18.50		17.83	18.50		18.18	18.50	18.00	18.50	21.10	21.50	
		44	5220	18.16	18.50		17.78	18.50		18.21	18.50	17.81	18.50	21.02	21.50	
		48	5240	18.12	18.50		17.72	18.50		18.19	18.50	17.80	18.50	21.01	21.50	
	802.11ac-VHT40 MCS0	38	5190	12.38	12.50	95.97	12.13	12.50	95.93	12.50	12.50	12.24	12.50	15.41	15.50	95.93
		46	5230	18.33	18.50		17.93	18.50		18.38	18.50	18.01	18.50	21.21	21.50	
	802.11ac-VHT80 MCS0	42	5210	11.71	12.50	92.00	11.48	12.50	91.63	11.78	12.50	11.65	12.50	14.73	15.50	91.20



Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.47	15.00	97.73	15.47	16.00	97.73	13.98	14.00	14.14	14.50	17.07	17.50	97.73
		56	5280	14.50	15.00		15.39	16.00		13.88	14.00	14.11	14.50	17.01	17.50	
		60	5300	14.62	15.00		15.40	16.00		14.00	14.00	14.22	14.50	17.12	17.50	
		64	5320	14.43	15.00		14.46	16.00		13.93	14.00	14.19	14.50	17.07	17.50	
	802.11n-HT20 MCS0	52	5260	14.53	15.00	97.56	15.71	16.00	97.56	13.94	14.00	14.10	14.50	17.03	17.50	97.56
		56	5280	14.60	15.00		15.70	16.00		13.91	14.00	14.11	14.50	17.02	17.50	
		60	5300	14.62	15.00		15.61	16.00		13.96	14.00	14.12	14.50	17.05	17.50	
		64	5320	14.35	15.00		14.44	16.00		13.95	14.00	14.13	14.50	17.05	17.50	
	802.11n-HT40 MCS0	54	5270	14.67	15.00	95.93	15.74	16.00	95.93	14.00	14.00	14.50	14.50	17.27	17.50	95.16
		62	5310	14.03	14.50		13.33	14.50		14.12	14.50	13.38	14.50	16.77	17.50	
	802.11ac-VHT20 MCS0	52	5260	14.51	15.00	97.58	15.40	16.00	97.58	13.97	14.00	14.14	14.50	17.07	17.50	97.56
		56	5280	14.55	15.00		15.46	16.00		13.96	14.00	14.15	14.50	17.07	17.50	
		60	5300	14.61	15.00		15.69	16.00		13.88	14.00	14.18	14.50	17.04	17.50	
		64	5320	13.62	15.00		15.19	16.00		13.90	14.00	14.13	14.50	17.03	17.50	
	802.11ac-VHT40 MCS0	54	5270	14.42	15.00	95.97	15.62	16.00	95.93	13.88	14.00	14.11	14.50	17.01	17.50	95.93
		62	5310	14.00	14.00		13.30	14.00		14.00	14.00	13.36	14.00	16.74	17.00	
	802.11ac-VHT80 MCS0	58	5290	13.28	13.50	92.00	12.63	13.50	91.63	13.43	13.50	12.70	13.50	16.09	16.50	91.20

Power Selection				Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	18.27	18.50	97.73	17.77	18.50	97.73	18.28	18.50	17.80	18.50	21.06	21.50	97.73
		56	5280	18.30	18.50		17.69	18.50		18.30	18.50	17.87	18.50	21.10	21.50	
		60	5300	18.44	18.50		17.70	18.50		18.45	18.50	17.74	18.50	21.12	21.50	
		64	5320	17.23	17.50		16.72	17.50		17.25	17.50	16.75	17.50	20.02	20.50	
	802.11n-HT20 MCS0	52	5260	18.33	18.50	97.56	18.11	18.50	97.56	18.46	18.50	18.16	18.50	21.32	21.50	97.56
		56	5280	18.40	18.50		18.00	18.50		18.40	18.50	18.11	18.50	21.27	21.50	
		60	5300	18.42	18.50		17.91	18.50		18.48	18.50	17.96	18.50	21.24	21.50	
		64	5320	17.11	17.50		16.53	17.50		17.16	17.50	16.56	17.50	19.88	20.50	
	802.11n-HT40 MCS0	54	5270	18.46	18.50	95.93	17.90	18.50	95.93	18.48	18.50	18.00	18.50	21.25	21.50	95.16
		62	5310	14.03	14.50		13.33	14.50		14.12	14.50	13.38	14.50	16.77	17.50	
	802.11ac-VHT20 MCS0	52	5260	18.31	18.50	97.58	17.72	18.50	97.58	18.43	18.50	18.03	18.50	21.24	21.50	97.56
		56	5280	18.35	18.50		17.76	18.50		18.42	18.50	18.03	18.50	21.20	21.50	
		60	5300	18.41	18.50		17.93	18.50		18.46	18.50	17.94	18.50	21.21	21.50	
		64	5320	17.09	17.50		16.49	17.50		17.11	17.50	16.51	17.50	19.83	20.50	
	802.11ac-VHT40 MCS0	54	5270	18.42	18.50	95.97	17.89	18.50	95.93	18.43	18.50	17.98	18.50	21.22	21.50	95.93
		62	5310	14.00	14.00		13.30	14.00		14.00	14.00	13.36	14.00	16.74	17.00	
	802.11ac-VHT80 MCS0	58	5290	13.28	13.50	92.00	12.63	13.50	91.63	13.43	13.50	12.70	13.50	16.09	16.50	91.20

Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	SISO Ant 4 Average power (dBm)	SISO Ant 4 Tune-Up	SISO Ant 5 Average power (dBm)	SISO Ant 5 Tune-Up	MIMO Ant 4+5 Average power (dBm)	MIMO Ant 4+5 Tune-Up	Duty Cycle %
	802.11a 6Mbps	100	5500	14.48	15.00	97.73	16.31	16.50	97.73	12.80	13.00	14.74	15.00	16.89	17.50	97.73
		116	5580	14.39	15.00		16.27	16.50		12.89	13.00	14.55	15.00	16.81	17.50	
		124	5620	14.38	15.00		16.42	16.50		12.81	13.00	14.61	15.00	16.81	17.50	
		132	5660	14.37	15.00		16.32	16.50		12.89	13.00	14.68	15.00	16.89	17.50	
		144	5720	14.20	15.00		16.37	16.50		12.88	13.00	14.52	15.00	16.79	17.50	
	802.11n-HT20 MCS0	100	5500	13.84	15.00	97.56	15.88	16.50	97.56	12.79	13.00	14.77	15.00	16.90	17.50	97.56
		116	5580	13.94	15.00		15.58	16.50		12.96	13.00	14.53	15.00	16.83	17.50	
		124	5620	13.96	15.00		15.60	16.50		12.75	13.00	14.66	15.00	16.82	17.50	
		132	5660	13.93	15.00		15.70	16.50		12.89	13.00	14.72	15.00	16.91	17.50	
		144	5720	13.46	15.00		15.93	16.50		12.86	13.00	14.47	15.00	16.75	17.50	
	802.11n-HT40 MCS0	102	5510	14.84	15.00	95.93	14.38	15.00	95.93	12.15	13.00	14.60	15.00	16.56	17.50	95.16
		110	5550	14.38	15.00		16.41	16.50		12.79	13.00	14.69	15.00	16.85	17.50	
		126	5630	14.38	15.00		16.34	16.50		12.83	13.00	14.62	15.00	16.83	17.50	
		134	5670	14.21	15.00		15.96	16.50		12.81	13.00	14.53	15.00	16.76	17.50	
		142	5710	13.92	15.00		16.08	16.50		12.78	13.00	14.62	15.00	16.81	17.50	
	802.11ac-VHT20 MCS0	100	5500	13.88	15.00	97.58	15.79	16.50	97.58	12.79	13.00	14.61	15.00	16.80	17.50	97.56
		116	5580	14.01	15.00		15.56	16.50		12.97	13.00	14.46	15.00	16.79	17.50	
		124	5620	13.97	15.00		15.57	16.50		12.85	13.00	14.57	15.00	16.80	17.50	
		132	5660	13.86	15.00		15.66	16.50		12.80	13.00	14.76	15.00	16.90	17.50	
		144	5720	13.37	15.00		15.91	16.50		12.75	13.00	14.54	15.00	16.75	17.50	
	802.11ac-VHT40 MCS0	102	5510	14.80	15.00	95.97	14.36	15.00	95.93	12.78	13.00	14.81	15.00	16.92	17.50	95.93
		110	5550	14.27	15.00		16.38	16.50		12.94	13.00	14.49	15.00	16.79	17.50	
		126	5630	14.37	15.00		16.21	16.50		12.85	13.00	14.73	15.00	16.90	17.50	
		134	5670	14.12	15.00		15.95	16.50		12.85	13.00	14.54	15.00	16.79	17.50	
		142	5710	13.88	15.00		16.00	16.50		12.74	13.00	14.58	15.00	16.77	17.50	
	802.11ac-VHT80 MCS0	106	5530	12.46	12.50	92.00	12.00	12.50	91.63	12.50	12.50	12.10	12.50	15.36	15.50	91.20
		122	5610	14.36	15.00		16.28	16.50		12.15	13.00	14.52	15.00	16.51	17.50	
		138	5690	14.40	15.00		16.44	16.50		12.70	13.00	14.22	15.00	16.54	17.50	



Power Selection				Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	SISO Ant 4 Average power (dBm)	SISO Ant 4 Tune-Up	SISO Ant 5 Average power (dBm)	SISO Ant 5 Tune-Up	MIMO Ant 4+5 Average power (dBm)	MIMO Ant 4+5 Tune-Up	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.48	18.50	97.73	18.31	18.50	97.73	18.49	18.50	18.33	18.50	21.42	21.50	97.73
		116	5580	18.39	18.50		18.07	18.50		18.40	18.50	18.15	18.50	21.29	21.50	
		124	5620	18.38	18.50		18.05	18.50		18.35	18.50	18.12	18.50	21.25	21.50	
		132	5660	18.37	18.50		18.02	18.50		18.29	18.50	18.09	18.50	21.20	21.50	
		144	5720	18.20	18.50		18.28	18.50		18.30	18.50	18.29	18.50	21.31	21.50	
	802.11n-HT20 MCS0	100	5500	17.34	18.00	97.56	17.11	18.00	97.56	17.57	18.00	17.21	18.00	20.40	21.00	97.56
		116	5580	17.54	18.00		16.89	18.00		17.55	18.00	16.91	18.00	20.25	21.00	
		124	5620	17.50	18.00		16.90	18.00		17.51	18.00	16.90	18.00	20.23	21.00	
		132	5660	17.43	18.00		17.00	18.00		17.48	18.00	16.90	18.00	20.21	21.00	
		144	5720	16.99	18.00		17.23	18.00		17.01	18.00	17.27	18.00	20.15	21.00	
	802.11n-HT40 MCS0	102	5510	14.84	15.00	95.93	14.38	15.00	95.93	15.00	15.00	14.49	15.00	17.79	18.00	95.16
		110	5550	18.28	18.50		17.76	18.50		18.36	18.50	17.78	18.50	21.09	21.50	
		126	5630	18.20	18.50		17.64	18.50		18.26	18.50	17.71	18.50	21.00	21.50	
		134	5670	17.71	18.50		17.26	18.50		17.77	18.50	17.28	18.50	20.54	21.50	
		142	5710	17.40	18.50		17.38	18.50		17.54	18.50	17.39	18.50	20.47	21.50	
	802.11ac-VHT20 MCS0	100	5500	17.33	18.00	97.58	17.09	18.00	97.58	17.56	18.00	17.20	18.00	20.39	21.00	97.56
		116	5580	17.51	18.00		16.88	18.00		17.54	18.00	16.90	18.00	20.24	21.00	
		124	5620	17.47	18.00		16.89	18.00		17.50	18.00	16.89	18.00	20.22	21.00	
		132	5660	17.36	18.00		16.95	18.00		17.48	18.00	16.88	18.00	20.20	21.00	
		144	5720	16.88	18.00		17.21	18.00		16.99	18.00	17.26	18.00	20.13	21.00	
	802.11ac-VHT40 MCS0	102	5510	14.80	15.00	95.97	14.36	15.00	95.93	15.00	15.00	14.43	15.00	17.73	18.00	95.93
		110	5550	18.27	18.50		17.68	18.50		18.29	18.50	17.76	18.50	21.04	21.50	
		126	5630	18.00	18.50		17.55	18.50		18.18	18.50	17.69	18.50	20.95	21.50	
		134	5670	17.61	18.50		17.25	18.50		17.65	18.50	17.26	18.50	20.47	21.50	
		142	5710	17.38	18.50		17.30	18.50		17.53	18.50	17.33	18.50	20.44	21.50	
	802.11ac-VHT80 MCS0	106	5530	12.46	12.50	92.00	12.00	12.50	91.63	12.50	12.50	12.10	12.50	15.36	15.50	91.20
		122	5610	17.85	18.50		17.58	18.50		17.98	18.50	17.60	18.50	20.80	21.50	
		138	5690	17.86	18.50		17.71	18.50		17.88	18.50	17.72	18.50	20.81	21.50	



Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	14.13	15.00	97.73	16.72	17.00	97.73	13.18	14.50	15.60	16.00	17.57	18.50	97.73
		157	5785	14.37	15.00		15.33	15.50		15.14	15.50	15.42	15.50	18.29	18.50	
		165	5825	14.42	15.00		14.80	15.00		14.54	15.00	14.81	15.00	17.69	18.00	
	802.11n-HT20 MCS0	149	5745	13.91	15.00	97.56	16.26	17.00	97.56	13.15	14.50	15.68	16.00	17.61	18.50	97.56
		157	5785	14.32	15.00		16.61	17.00		13.13	14.50	15.69	16.00	17.61	18.50	
		165	5825	13.92	15.00		15.44	15.50		15.44	15.50	15.45	15.50	18.45	18.50	
	802.11n-HT40 MCS0	151	5755	14.70	15.00	95.93	16.74	17.00	95.93	13.20	14.50	15.73	16.00	17.66	18.50	95.16
		159	5795	14.51	15.00		16.80	17.00		13.15	14.50	15.67	16.00	17.60	18.50	
	802.11ac-VHT20 MCS0	149	5745	13.91	15.00	97.58	16.23	17.00	97.58	13.17	14.50	15.70	16.00	17.63	18.50	97.56
		157	5785	14.24	15.00		16.49	17.00		13.19	14.50	15.64	16.00	17.60	18.50	
		165	5825	13.92	15.00		15.40	15.50		15.42	15.50	15.41	15.50	18.42	18.50	
	802.11ac-VHT40 MCS0	151	5755	14.68	15.00	95.97	16.68	17.00	95.93	13.10	14.50	15.62	16.00	17.55	18.50	95.93
		159	5795	14.44	15.00		16.74	17.00		13.14	14.50	15.72	16.00	17.63	18.50	
802.11ac-VHT80 MCS0	155	5775	14.46	15.00	92.00	16.78	17.00	91.63	13.20	14.50	15.65	16.00	17.61	18.50	91.20	

Power Selection				Hotspot / Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	17.15	18.00	97.73	17.65	18.00	97.73	17.50	18.00	17.67	18.00	20.60	21.00	97.73
		157	5785	15.11	15.50		15.33	15.50		15.14	15.50	15.42	15.50	18.29	18.50	
		165	5825	14.42	15.00		14.80	15.00		14.54	15.00	14.81	15.00	17.69	18.00	
	802.11n-HT20 MCS0	149	5745	16.93	18.00	97.56	17.06	18.00	97.56	17.09	18.00	17.11	18.00	20.11	21.00	97.56
		157	5785	17.31	18.00		17.51	18.00		17.36	18.00	17.53	18.00	20.45	21.00	
		165	5825	15.29	15.50		15.44	15.50		15.44	15.50	15.45	15.50	18.45	18.50	
	802.11n-HT40 MCS0	151	5755	17.72	18.00	95.93	17.80	18.00	95.93	17.82	18.00	17.83	18.00	20.83	21.00	95.16
		159	5795	17.53	18.00		17.70	18.00		17.62	18.00	17.73	18.00	20.68	21.00	
	802.11ac-VHT20 MCS0	149	5745	16.91	17.50	97.58	17.05	17.50	97.58	17.05	17.50	17.09	17.50	20.08	20.50	97.56
		157	5785	17.24	17.50		17.49	17.50		17.33	17.50	17.51	17.50	20.43	20.50	
		165	5825	15.26	15.50		15.40	15.50		15.42	15.50	15.41	15.50	18.42	18.50	
	802.11ac-VHT40 MCS0	151	5755	17.70	18.00	95.97	17.78	18.00	95.93	17.74	18.00	17.80	18.00	20.78	21.00	95.93
		159	5795	17.50	18.00		17.68	18.00		17.56	18.00	17.69	18.00	20.64	21.00	
802.11ac-VHT80 MCS0	155	5775	17.34	18.00	92.00	17.49	18.00	91.63	17.36	18.00	17.50	18.00	20.44	21.00	91.20	



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Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	9.32	10.00	97.73	8.14	8.50	97.73	9.11	9.50	9.39	10.00	12.26	13.00	97.73
		40	5200	9.34	10.00		8.13	8.50		9.16	9.50	9.62	10.00	12.41	13.00	
		44	5220	9.28	10.00		8.02	8.50		9.17	9.50	9.66	10.00	12.43	13.00	
		48	5240	9.30	10.00		7.92	8.50		9.12	9.50	9.32	10.00	12.23	13.00	
	802.11n-HT20 MCS0	36	5180	9.24	10.00	97.56	8.01	8.50	97.56	9.20	9.50	9.26	10.00	12.24	13.00	97.56
		40	5200	9.30	10.00		7.85	8.50		9.17	9.50	9.66	10.00	12.43	13.00	
		44	5220	9.22	10.00		7.89	8.50		9.16	9.50	9.66	10.00	12.43	13.00	
		48	5240	9.17	10.00		7.71	8.50		9.13	9.50	9.31	10.00	12.23	13.00	
	802.11n-HT40 MCS0	38	5190	9.44	10.00	95.93	8.06	8.50	95.93	9.13	9.50	9.59	10.00	12.38	13.00	95.16
		46	5230	9.35	10.00		7.94	8.50		9.04	9.50	9.59	10.00	12.33	13.00	
	802.11ac-VHT20 MCS0	36	5180	9.21	10.00	97.58	8.00	8.50	97.58	9.32	9.50	9.72	10.00	12.53	13.00	97.56
		40	5200	9.20	10.00		7.82	8.50		9.07	9.50	9.62	10.00	12.36	13.00	
		44	5220	9.26	10.00		7.77	8.50		9.12	9.50	9.52	10.00	12.33	13.00	
		48	5240	9.22	10.00		7.72	8.50		9.15	9.50	9.68	10.00	12.43	13.00	
	802.11ac-VHT40 MCS0	38	5190	9.38	10.00	95.97	8.06	8.50	95.93	9.03	9.50	9.58	10.00	12.32	13.00	95.93
		46	5230	9.33	10.00		8.03	8.50		9.06	9.50	9.52	10.00	12.31	13.00	
	802.11ac-VHT80 MCS0	42	5210	9.61	10.00	92.00	8.01	8.50	91.63	9.10	9.50	9.43	10.00	12.28	13.00	91.20

Power Selection				Hotspot / Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.32	18.50	97.73	18.20	18.50	97.73	18.36	18.50	18.30	18.50	21.34	21.50	97.73
		40	5200	18.30	18.50		18.15	18.50		18.25	18.50	18.18	18.50	21.23	21.50	
		44	5220	18.28	18.50		18.02	18.50		18.30	18.50	18.05	18.50	21.19	21.50	
		48	5240	18.20	18.50		17.95	18.50		18.29	18.50	17.97	18.50	21.14	21.50	
	802.11n-HT20 MCS0	36	5180	18.24	18.50	97.56	18.01	18.50	97.56	18.26	18.50	18.03	18.50	21.15	21.50	97.56
		40	5200	18.23	18.50		17.95	18.50		18.22	18.50	18.02	18.50	21.13	21.50	
		44	5220	18.21	18.50		17.91	18.50		18.22	18.50	17.96	18.50	21.10	21.50	
		48	5240	18.13	18.50		17.73	18.50		18.21	18.50	17.81	18.50	21.02	21.50	
	802.11n-HT40 MCS0	38	5190	12.46	12.50	95.93	12.16	12.50	95.93	12.50	12.50	12.28	12.50	15.44	15.50	95.16
		46	5230	18.35	18.50		17.95	18.50		18.40	18.50	18.03	18.50	21.23	21.50	
	802.11ac-VHT20 MCS0	36	5180	18.21	18.50	97.58	18.00	18.50	97.58	18.25	18.50	18.01	18.50	21.14	21.50	97.56
		40	5200	18.20	18.50		17.83	18.50		18.18	18.50	18.00	18.50	21.10	21.50	
		44	5220	18.16	18.50		17.78	18.50		18.21	18.50	17.81	18.50	21.02	21.50	
		48	5240	18.12	18.50		17.72	18.50		18.19	18.50	17.80	18.50	21.01	21.50	
	802.11ac-VHT40 MCS0	38	5190	12.38	12.50	95.97	12.13	12.50	95.93	12.50	12.50	12.24	12.50	15.41	15.50	95.93
		46	5230	18.33	18.50		17.93	18.50		18.38	18.50	18.01	18.50	21.21	21.50	
	802.11ac-VHT80 MCS0	42	5210	11.71	12.50	92.00	11.48	12.50	91.63	11.78	12.50	11.65	12.50	14.73	15.50	91.20



Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	9.85	10.00	97.73	7.97	8.50	97.73	9.06	9.50	9.34	10.00	12.21	13.00	97.73
		56	5280	9.82	10.00		7.99	8.50		9.06	9.50	9.71	10.00	12.41	13.00	
		60	5300	9.79	10.00		8.03	8.50		9.18	9.50	9.58	10.00	12.39	13.00	
		64	5320	9.78	10.00		8.24	8.50		9.04	9.50	9.39	10.00	12.23	13.00	
	802.11n-HT20 MCS0	52	5260	9.85	10.00	97.56	8.01	8.50	97.56	9.19	9.50	9.34	10.00	12.28	13.00	97.56
		56	5280	9.84	10.00		8.03	8.50		9.10	9.50	9.58	10.00	12.36	13.00	
		60	5300	9.86	10.00		8.05	8.50		9.09	9.50	9.64	10.00	12.38	13.00	
		64	5320	9.66	10.00		7.73	8.50		9.20	9.50	9.39	10.00	12.31	13.00	
	802.11n-HT40 MCS0	54	5270	9.67	10.00	95.93	8.11	8.50	95.93	9.07	9.50	9.53	10.00	12.32	13.00	95.16
		62	5310	9.73	10.00		7.83	8.50		9.09	9.50	9.56	10.00	12.34	13.00	
	802.11ac-VHT20 MCS0	52	5260	9.84	10.00	97.58	7.82	8.50	97.58	9.25	9.50	9.65	10.00	12.46	13.00	97.56
		56	5280	9.82	10.00		7.86	8.50		9.03	9.50	9.56	10.00	12.31	13.00	
		60	5300	9.77	10.00		7.91	8.50		9.06	9.50	9.44	10.00	12.26	13.00	
		64	5320	9.67	10.00		7.64	8.50		9.16	9.50	9.62	10.00	12.41	13.00	
	802.11ac-VHT40 MCS0	54	5270	9.81	10.00	95.97	7.89	8.50	95.93	9.08	9.50	9.56	10.00	12.34	13.00	95.93
		62	5310	9.71	10.00		7.91	8.50		9.15	9.50	9.47	10.00	12.32	13.00	
	802.11ac-VHT80 MCS0	58	5290	9.88	10.00	92.00	8.32	8.50	91.63	9.10	9.50	9.52	10.00	12.33	13.00	91.20

Power Selection				Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	18.27	18.50	97.73	17.77	18.50	97.73	18.28	18.50	17.80	18.50	21.06	21.50	97.73
		56	5280	18.30	18.50		17.69	18.50		18.30	18.50	17.87	18.50	21.10	21.50	
		60	5300	18.44	18.50		17.70	18.50		18.45	18.50	17.74	18.50	21.12	21.50	
		64	5320	17.23	17.50		16.72	17.50		17.25	17.50	16.75	17.50	20.02	20.50	
	802.11n-HT20 MCS0	52	5260	18.33	18.50	97.56	18.11	18.50	97.56	18.46	18.50	18.16	18.50	21.32	21.50	97.56
		56	5280	18.40	18.50		18.00	18.50		18.40	18.50	18.11	18.50	21.27	21.50	
		60	5300	18.42	18.50		17.91	18.50		18.48	18.50	17.96	18.50	21.24	21.50	
		64	5320	17.11	17.50		16.53	17.50		17.16	17.50	16.56	17.50	19.88	20.50	
	802.11n-HT40 MCS0	54	5270	18.46	18.50	95.93	17.90	18.50	95.93	18.48	18.50	18.00	18.50	21.25	21.50	95.16
		62	5310	14.03	14.50		13.33	14.50		14.12	14.50	13.38	14.50	16.77	17.50	
	802.11ac-VHT20 MCS0	52	5260	18.31	18.50	97.58	17.72	18.50	97.58	18.43	18.50	18.03	18.50	21.24	21.50	97.56
		56	5280	18.35	18.50		17.76	18.50		18.42	18.50	18.03	18.50	21.20	21.50	
		60	5300	18.41	18.50		17.93	18.50		18.46	18.50	17.94	18.50	21.21	21.50	
		64	5320	17.09	17.50		16.49	17.50		17.11	17.50	16.51	17.50	19.83	20.50	
	802.11ac-VHT40 MCS0	54	5270	18.42	18.50	95.97	17.89	18.50	95.93	18.43	18.50	17.98	18.50	21.22	21.50	95.93
		62	5310	14.00	14.00		13.30	14.00		14.00	14.00	13.36	14.00	16.74	17.00	
802.11ac-VHT80 MCS0	58	5290	13.28	13.50	92.00	12.63	13.50	91.63	13.43	13.50	12.70	13.50	16.09	16.50	91.20	

Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	SISO Ant 4 Average power (dBm)	SISO Ant 4 Tune-Up	SISO Ant 5 Average power (dBm)	SISO Ant 5 Tune-Up	MIMO Ant 4+5 Average power (dBm)	MIMO Ant 4+5 Tune-Up	Duty Cycle %
	802.11a 6Mbps	100	5500	9.48	10.00	97.73	10.61	11.00	97.73	8.55	9.00	10.23	10.50	12.48	13.00	97.73
		116	5580	9.39	10.00		10.57	11.00		8.33	9.00	10.32	10.50	12.45	13.00	
		124	5620	9.38	10.00		10.55	11.00		8.39	9.00	10.37	10.50	12.50	13.00	
		132	5660	9.37	10.00		10.52	11.00		8.39	9.00	10.49	10.50	12.58	13.00	
		144	5720	9.50	10.00		10.68	11.00		8.57	9.00	10.15	10.50	12.44	13.00	
	802.11n-HT20 MCS0	100	5500	8.84	10.00	97.56	10.13	11.00	97.56	8.47	9.00	10.30	10.50	12.49	13.00	97.56
		116	5580	8.94	10.00		9.93	11.00		8.44	9.00	10.22	10.50	12.43	13.00	
		124	5620	8.90	10.00		9.90	11.00		8.62	9.00	10.13	10.50	12.45	13.00	
		132	5660	8.93	10.00		10.01	11.00		8.40	9.00	10.22	10.50	12.41	13.00	
		144	5720	8.84	10.00		10.33	11.00		8.37	9.00	10.46	10.50	12.55	13.00	
	802.11n-HT40 MCS0	102	5510	9.44	10.00	95.93	10.38	11.00	95.93	8.48	9.00	10.40	10.50	12.56	13.00	95.16
		110	5550	9.38	10.00		10.72	11.00		8.67	9.00	10.19	10.50	12.51	13.00	
		126	5630	9.41	10.00		10.63	11.00		8.36	9.00	10.36	10.50	12.48	13.00	
		134	5670	8.71	10.00		10.24	11.00		8.55	9.00	10.32	10.50	12.53	13.00	
		142	5710	8.90	10.00		10.38	11.00		8.60	9.00	10.13	10.50	12.44	13.00	
	802.11ac-VHT20 MCS0	100	5500	8.83	10.00	97.58	10.09	11.00	97.58	8.37	9.00	10.23	10.50	12.41	13.00	97.56
		116	5580	8.91	10.00		9.79	11.00		8.37	9.00	10.20	10.50	12.39	13.00	
		124	5620	8.97	10.00		9.88	11.00		8.45	9.00	10.33	10.50	12.50	13.00	
		132	5660	8.86	10.00		9.95	11.00		8.46	9.00	10.42	10.50	12.56	13.00	
		144	5720	8.88	10.00		10.26	11.00		8.44	9.00	10.39	10.50	12.53	13.00	
	802.11ac-VHT40 MCS0	102	5510	9.50	10.00	95.97	9.86	11.00	95.93	8.38	9.00	10.30	10.50	12.46	13.00	95.93
		110	5550	9.47	10.00		10.68	11.00		8.36	9.00	10.30	10.50	12.45	13.00	
		126	5630	9.50	10.00		10.55	11.00		8.44	9.00	10.30	10.50	12.48	13.00	
		134	5670	8.81	10.00		10.22	11.00		8.35	9.00	10.39	10.50	12.50	13.00	
		142	5710	8.88	10.00		10.30	11.00		8.48	9.00	10.33	10.50	12.51	13.00	
	802.11ac-VHT80 MCS0	106	5530	9.44	10.00	92.00	10.00	11.00	91.63	8.51	9.00	10.23	10.50	12.46	13.00	91.20
		122	5610	9.46	10.00		10.58	11.00		8.41	9.00	10.23	10.50	12.42	13.00	
		138	5690	9.51	10.00		10.75	11.00		8.52	9.00	10.32	10.50	12.52	13.00	

Power Selection				Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	SISO Ant 4 Average power (dBm)	SISO Ant 4 Tune-Up	SISO Ant 5 Average power (dBm)	SISO Ant 5 Tune-Up	MIMO Ant 4+5 Average power (dBm)	MIMO Ant 4+5 Tune-Up	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.48	18.50	97.73	18.31	18.50	97.73	18.49	18.50	18.33	18.50	21.42	21.50	97.73
		116	5580	18.39	18.50		18.07	18.50		18.40	18.50	18.15	18.50	21.29	21.50	
		124	5620	18.38	18.50		18.05	18.50		18.35	18.50	18.12	18.50	21.25	21.50	
		132	5660	18.37	18.50		18.02	18.50		18.29	18.50	18.09	18.50	21.20	21.50	
		144	5720	18.20	18.50		18.28	18.50		18.30	18.50	18.29	18.50	21.31	21.50	
	802.11n-HT20 MCS0	100	5500	17.34	18.00	97.56	17.11	18.00	97.56	17.57	18.00	17.21	18.00	20.40	21.00	97.56
		116	5580	17.54	18.00		16.89	18.00		17.55	18.00	16.91	18.00	20.25	21.00	
		124	5620	17.50	18.00		16.90	18.00		17.51	18.00	16.90	18.00	20.23	21.00	
		132	5660	17.43	18.00		17.00	18.00		17.48	18.00	16.90	18.00	20.21	21.00	
		144	5720	16.99	18.00		17.23	18.00		17.01	18.00	17.27	18.00	20.15	21.00	
	802.11n-HT40 MCS0	102	5510	14.84	15.00	95.93	14.38	15.00	95.93	15.00	15.00	14.49	15.00	17.79	18.00	95.16
		110	5550	18.28	18.50		17.76	18.50		18.36	18.50	17.78	18.50	21.09	21.50	
		126	5630	18.20	18.50		17.64	18.50		18.26	18.50	17.71	18.50	21.00	21.50	
		134	5670	17.71	18.50		17.26	18.50		17.77	18.50	17.28	18.50	20.54	21.50	
		142	5710	17.40	18.50		17.38	18.50		17.54	18.50	17.39	18.50	20.47	21.50	
	802.11ac-VHT20 MCS0	100	5500	17.33	18.00	97.58	17.09	18.00	97.58	17.56	18.00	17.20	18.00	20.39	21.00	97.56
		116	5580	17.51	18.00		16.88	18.00		17.54	18.00	16.90	18.00	20.24	21.00	
		124	5620	17.47	18.00		16.89	18.00		17.50	18.00	16.89	18.00	20.22	21.00	
		132	5660	17.36	18.00		16.95	18.00		17.48	18.00	16.88	18.00	20.20	21.00	
		144	5720	16.88	18.00		17.21	18.00		16.99	18.00	17.26	18.00	20.13	21.00	
	802.11ac-VHT40 MCS0	102	5510	14.80	15.00	95.97	14.36	15.00	95.93	15.00	15.00	14.43	15.00	17.73	18.00	95.93
		110	5550	18.27	18.50		17.68	18.50		18.29	18.50	17.76	18.50	21.04	21.50	
		126	5630	18.00	18.50		17.55	18.50		18.18	18.50	17.69	18.50	20.95	21.50	
		134	5670	17.61	18.50		17.25	18.50		17.65	18.50	17.26	18.50	20.47	21.50	
		142	5710	17.38	18.50		17.30	18.50		17.53	18.50	17.33	18.50	20.44	21.50	
	802.11ac-VHT80 MCS0	106	5530	12.46	12.50	92.00	12.00	12.50	91.63	12.50	12.50	12.10	12.50	15.36	15.50	91.20
		122	5610	17.85	18.50		17.58	18.50		17.98	18.50	17.60	18.50	20.80	21.50	
		138	5690	17.86	18.50		17.71	18.50		17.88	18.50	17.72	18.50	20.81	21.50	



Power Selection				Head												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	9.05	10.00	97.73	11.45	11.50	97.73	8.69	9.00	11.38	11.50	13.25	13.50	97.73
		157	5785	9.40	10.00		11.38	11.50		8.72	9.00	11.34	11.50	13.23	13.50	
		165	5825	8.92	10.00		11.20	11.50		8.75	9.00	11.47	11.50	13.33	13.50	
	802.11n-HT20 MCS0	149	5745	8.88	10.00	97.56	11.06	11.50	97.56	8.61	9.00	11.43	11.50	13.26	13.50	97.56
		157	5785	9.32	10.00		11.31	11.50		8.75	9.00	11.41	11.50	13.29	13.50	
		165	5825	8.82	10.00		11.29	11.50		8.85	9.00	11.34	11.50	13.28	13.50	
	802.11n-HT40 MCS0	151	5755	9.31	10.00	95.93	11.30	11.50	95.93	8.73	9.00	11.32	11.50	13.23	13.50	95.16
		159	5795	9.51	10.00		11.20	11.50		8.86	9.00	11.39	11.50	13.32	13.50	
	802.11ac-VHT20 MCS0	149	5745	8.91	10.00	97.58	11.15	11.50	97.58	8.71	9.00	11.39	11.50	13.26	13.50	97.56
		157	5785	9.24	10.00		11.39	11.50		8.80	9.00	11.35	11.50	13.27	13.50	
		165	5825	8.85	10.00		11.28	11.50		8.77	9.00	11.46	11.50	13.33	13.50	
	802.11ac-VHT40 MCS0	151	5755	9.50	10.00	95.97	11.38	11.50	95.93	8.71	9.00	11.36	11.50	13.24	13.50	95.93
		159	5795	9.51	10.00		11.48	11.50		8.80	9.00	11.39	11.50	13.30	13.50	
	802.11ac-VHT80 MCS0	155	5775	9.53	10.00	92.00	11.49	11.50	91.63	8.75	9.00	11.30	11.50	13.22	13.50	91.20

Power Selection				Hotspot / Body-worn / Product Specific												
Transmit Antenna				Ant 5			Ant 4			Ant 4+5						
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Ant 4 Average power (dBm)	Ant 4 Tune-Up Limit	Ant 5 Average power (dBm)	Ant 5 Tune-Up Limit	Ant 4+5 Average power (dBm)	Ant 4+5 Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	17.15	18.00	97.73	17.65	18.00	97.73	17.50	18.00	17.67	18.00	20.60	21.00	97.73
		157	5785	15.11	15.50		15.33	15.50		15.14	15.50	15.42	15.50	18.29	18.50	
		165	5825	14.42	15.00		14.80	15.00		14.54	15.00	14.81	15.00	17.69	18.00	
	802.11n-HT20 MCS0	149	5745	16.93	18.00	97.56	17.06	18.00	97.56	17.09	18.00	17.11	18.00	20.11	21.00	97.56
		157	5785	17.31	18.00		17.51	18.00		17.36	18.00	17.53	18.00	20.45	21.00	
		165	5825	15.29	15.50		15.44	15.50		15.44	15.50	15.45	15.50	18.45	18.50	
	802.11n-HT40 MCS0	151	5755	17.72	18.00	95.93	17.80	18.00	95.93	17.82	18.00	17.83	18.00	20.83	21.00	95.16
		159	5795	17.53	18.00		17.70	18.00		17.62	18.00	17.73	18.00	20.68	21.00	
	802.11ac-VHT20 MCS0	149	5745	16.91	17.50	97.58	17.05	17.50	97.58	17.05	17.50	17.09	17.50	20.08	20.50	97.56
		157	5785	17.24	17.50		17.49	17.50		17.33	17.50	17.50	17.50	20.43	20.50	
		165	5825	15.26	15.50		15.40	15.50		15.42	15.50	15.41	15.50	18.42	18.50	
	802.11ac-VHT40 MCS0	151	5755	17.70	18.00	95.97	17.78	18.00	95.93	17.74	18.00	17.80	18.00	20.78	21.00	95.93
		159	5795	17.50	18.00		17.68	18.00		17.56	18.00	17.69	18.00	20.64	21.00	
	802.11ac-VHT80 MCS0	155	5775	17.34	18.00	92.00	17.49	18.00	91.63	17.36	18.00	17.50	18.00	20.44	21.00	91.20

<2.4GHz Bluetooth>
General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.6% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.

Transmit Antenna			Ant 5		
Max. Power			11.5	11.5	11.5
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.29	8.95	8.95
	CH 39	2441	11.26	8.69	8.67
	CH 78	2480	10.92	8.68	8.68

Transmit Antenna			Ant 5	
Max. Power			11.5	11.5
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps
LE	CH 00	2402	11.05	11.06
	CH 19	2440	11.06	11.08
	CH 39	2480	10.63	11.68

12. Exposure Conditions

Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN UAT	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm
WWAN LAT	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
BT&2.4GHz WLAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
2.4GHz WLAN Ant 4	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 4	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
2.4GHz WLAN Ant 4+5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
5GHz WLAN Ant 4+5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN UAT	Yes	Yes	Yes	No	Yes	Yes
WWAN LAT	Yes	Yes	No	Yes	Yes	Yes
BT&2.4GHz WLAN Ant 5	Yes	Yes	Yes	No	Yes	No
2.4GHz WLAN Ant 4	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 5	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 4	Yes	Yes	Yes	No	Yes	No
2.4GHz WLAN Ant 4+5	Yes	Yes	Yes	No	Yes	No
5GHz WLAN Ant 4+5	Yes	Yes	Yes	No	Yes	No

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
- Detail antenna locations refer to appendix D.

13. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result.
The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
6. For 5.3GHz / 5.5GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.
7. For the body SAR measurement was used a low-loss foam block performed testing, the relative permittivity and loss tangent of the foam material is 1.0 and 10^{-5} , respectively, therefore holder perturbation verification is not required even highest reported SAR is > 1.2 W/kg.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

CDMA Note:

1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B12 / B26 / B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE band 2 / 4 / 5 / 17 / 38 SAR test and the conducted measurement was covered by Band 12 / 25 / 26 / 41 / 66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is > 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 Head SAR testing is required when the U-NII-2A band highest reported SAR for a test configuration is > 1.2 W/kg, SAR is required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg and SAR peak to location ratio ≤ 0.04 , no additional SAR measurements for MIMO.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

13.1 Head SAR

<GSM850>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	25.77	26.50	1.183	0.02	1.020	1.207
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	25.71	26.50	1.199	-0.05	0.684	0.820
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	25.74	26.50	1.191	-0.04	0.941	1.121
01	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	251	848.8	25.77	26.50	1.183	-0.06	1.050	1.242
	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	128	824.2	25.71	26.50	1.199	0.02	0.649	0.778
	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	189	836.4	25.74	26.50	1.191	-0.04	0.911	1.085
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	251	848.8	25.77	26.50	1.183	-0.04	0.801	0.948
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	128	824.2	25.71	26.50	1.199	0.11	0.529	0.635
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	189	836.4	25.74	26.50	1.191	-0.04	0.544	0.648
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	251	848.8	25.77	26.50	1.183	0.05	0.833	0.985
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	128	824.2	25.71	26.50	1.199	0.02	0.530	0.636
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	189	836.4	25.74	26.50	1.191	0.01	0.854	1.017
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	25.77	26.00	1.054	0.02	1.020	1.075
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	25.71	26.00	1.069	-0.05	0.684	0.731
	GSM850_UAT	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	25.74	26.00	1.062	-0.04	0.941	0.999
	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	251	848.8	25.77	26.00	1.054	-0.06	1.050	1.107
	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	128	824.2	25.71	26.00	1.069	0.02	0.649	0.694
	GSM850_UAT	GPRS (4 Tx slots)	Right Tilted	0mm	189	836.4	25.74	26.00	1.062	-0.04	0.911	0.967
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	251	848.8	25.77	26.00	1.054	-0.04	0.801	0.845
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	128	824.2	25.71	26.00	1.069	0.11	0.529	0.566
	GSM850_UAT	GPRS (4 Tx slots)	Left Cheek	0mm	189	836.4	25.74	26.00	1.062	-0.04	0.544	0.578
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	251	848.8	25.77	26.00	1.054	0.05	0.833	0.878
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	128	824.2	25.71	26.00	1.069	0.02	0.530	0.567
	GSM850_UAT	GPRS (4 Tx slots)	Left Tilted	0mm	189	836.4	25.74	26.00	1.062	0.01	0.854	0.907
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	251	848.8	27.80	28.00	1.047	-0.05	0.276	0.289
	GSM850_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	128	824.2	27.75	28.00	1.059	0	0.324	0.343
	GSM850_LAT	GPRS (4 Tx slots)	Right Cheek	0mm	189	836.4	27.74	28.00	1.062	0.03	0.306	0.325
	GSM850_LAT	GPRS (4 Tx slots)	Right Tilted	0mm	251	848.8	27.80	28.00	1.047	-0.05	0.116	0.121
	GSM850_LAT	GPRS (4 Tx slots)	Left Cheek	0mm	251	848.8	27.80	28.00	1.047	-0.08	0.219	0.229
	GSM850_LAT	GPRS (4 Tx slots)	Left Tilted	0mm	251	848.8	27.80	28.00	1.047	-0.08	0.135	0.141

<GSM1900>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (3 Tx slots)	Right Cheek	0mm	512	1850.2	22.17	23.50	1.358	0.1	0.865	1.175
	GSM1900_UAT	GPRS (3 Tx slots)	Right Cheek	0mm	661	1880	22.12	23.50	1.374	-0.02	0.903	1.241
	GSM1900_UAT	GPRS (3 Tx slots)	Right Cheek	0mm	810	1909.8	22.10	23.50	1.380	-0.02	0.819	1.131
	GSM1900_UAT	GPRS (3 Tx slots)	Right Tilted	0mm	512	1850.2	22.17	23.50	1.358	-0.03	0.936	1.271
02	GSM1900_UAT	GPRS (3 Tx slots)	Right Tilted	0mm	661	1880	22.12	23.50	1.374	-0.02	0.942	1.294
	GSM1900_UAT	GPRS (3 Tx slots)	Right Tilted	0mm	810	1909.8	22.10	23.50	1.380	-0.03	0.907	1.252
	GSM1900_UAT	GPRS (3 Tx slots)	Left Cheek	0mm	512	1850.2	22.17	23.50	1.358	-0.03	0.496	0.674
	GSM1900_UAT	GPRS (3 Tx slots)	Left Tilted	0mm	512	1850.2	22.17	23.50	1.358	-0.14	0.763	1.036
	GSM1900_UAT	GPRS (3 Tx slots)	Left Tilted	0mm	661	1880	22.12	23.50	1.374	-0.09	0.793	1.090
	GSM1900_UAT	GPRS (3 Tx slots)	Left Tilted	0mm	810	1909.8	22.10	23.50	1.380	-0.06	0.692	0.955
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (3 Tx slots)	Right Cheek	0mm	512	1850.2	22.17	23.00	1.211	0.1	0.865	1.047
	GSM1900_UAT	GPRS (3 Tx slots)	Right Cheek	0mm	661	1880	22.12	23.00	1.225	-0.02	0.903	1.106
	GSM1900_UAT	GPRS (3 Tx slots)	Right Cheek	0mm	810	1909.8	22.10	23.00	1.230	-0.02	0.819	1.008
	GSM1900_UAT	GPRS (3 Tx slots)	Right Tilted	0mm	512	1850.2	22.17	23.00	1.211	-0.03	0.936	1.133
	GSM1900_UAT	GPRS (3 Tx slots)	Right Tilted	0mm	661	1880	22.12	23.00	1.225	-0.02	0.942	1.154
	GSM1900_UAT	GPRS (3 Tx slots)	Right Tilted	0mm	810	1909.8	22.10	23.00	1.230	-0.03	0.907	1.116
	GSM1900_UAT	GPRS (3 Tx slots)	Left Cheek	0mm	512	1850.2	22.17	23.00	1.211	-0.03	0.496	0.600
	GSM1900_UAT	GPRS (3 Tx slots)	Left Tilted	0mm	512	1850.2	22.17	23.00	1.211	-0.14	0.763	0.924
	GSM1900_UAT	GPRS (3 Tx slots)	Left Tilted	0mm	661	1880	22.12	23.00	1.225	-0.09	0.793	0.971
	GSM1900_UAT	GPRS (3 Tx slots)	Left Tilted	0mm	810	1909.8	22.10	23.00	1.230	-0.06	0.692	0.851
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_LAT	GPRS (3 Tx slots)	Right Cheek	0mm	512	1850.2	26.27	27.00	1.183	0.13	0.054	0.064
	GSM1900_LAT	GPRS (3 Tx slots)	Right Tilted	0mm	512	1850.2	26.27	27.00	1.183	-0.16	0.040	0.047
	GSM1900_LAT	GPRS (3 Tx slots)	Left Cheek	0mm	512	1850.2	26.27	27.00	1.183	0.02	0.085	0.101
	GSM1900_LAT	GPRS (3 Tx slots)	Left Cheek	0mm	661	1880	26.21	27.00	1.199	0.01	0.077	0.092
	GSM1900_LAT	GPRS (3 Tx slots)	Left Cheek	0mm	810	1909.8	26.12	27.00	1.225	0.04	0.069	0.084
	GSM1900_LAT	GPRS (3 Tx slots)	Left Tilted	0mm	512	1850.2	26.27	27.00	1.183	0.07	0.032	0.038

<WCDMA II>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	19.00	19.50	1.122	0	0.844	0.947
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	18.85	19.50	1.161	-0.06	0.876	1.017
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	18.60	19.50	1.230	-0.02	0.795	0.978
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	19.00	19.50	1.122	0.03	1.120	1.257
03	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	18.85	19.50	1.161	0.04	1.140	1.324
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	18.60	19.50	1.230	-0.01	1.030	1.267
	WCDMA II_UAT	RMC 12.2Kbps	Left Cheek	0mm	9262	1852.4	19.00	19.50	1.122	0.11	0.677	0.760
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9262	1852.4	19.00	19.50	1.122	0.1	0.866	0.972
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	18.85	19.50	1.161	0.16	0.883	1.026
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	18.60	19.50	1.230	-0.13	0.770	0.947
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	19.00	19.00	1.000	0	0.844	0.844
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9400	1880	18.85	19.00	1.035	-0.06	0.876	0.907
	WCDMA II_UAT	RMC 12.2Kbps	Right Cheek	0mm	9538	1907.6	18.60	19.00	1.096	-0.02	0.795	0.872
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	19.00	19.00	1.000	0.03	1.120	1.120
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9400	1880	18.85	19.00	1.035	0.04	1.140	1.180
	WCDMA II_UAT	RMC 12.2Kbps	Right Tilted	0mm	9538	1907.6	18.60	19.00	1.096	-0.01	1.030	1.129
	WCDMA II_UAT	RMC 12.2Kbps	Left Cheek	0mm	9262	1852.4	19.00	19.00	1.000	0.11	0.677	0.677
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9262	1852.4	19.00	19.00	1.000	0.1	0.866	0.866
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9400	1880	18.85	19.00	1.035	0.16	0.883	0.914
	WCDMA II_UAT	RMC 12.2Kbps	Left Tilted	0mm	9538	1907.6	18.60	19.00	1.096	-0.13	0.770	0.844
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_LAT	RMC 12.2Kbps	Right Cheek	0mm	9262	1852.4	23.20	24.00	1.202	-0.04	0.110	0.132
	WCDMA II_LAT	RMC 12.2Kbps	Right Tilted	0mm	9262	1852.4	23.20	24.00	1.202	0.05	0.080	0.096
	WCDMA II_LAT	RMC 12.2Kbps	Left Cheek	0mm	9262	1852.4	23.20	24.00	1.202	0.09	0.180	0.216
	WCDMA II_LAT	RMC 12.2Kbps	Left Cheek	0mm	9400	1880	23.06	24.00	1.242	0.11	0.188	0.233
	WCDMA II_LAT	RMC 12.2Kbps	Left Cheek	0mm	9538	1907.6	23.05	24.00	1.245	0.07	0.174	0.217
	WCDMA II_LAT	RMC 12.2Kbps	Left Tilted	0mm	9262	1852.4	23.20	24.00	1.202	0.1	0.057	0.069

<WCDMA IV>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1513	1752.6	21.18	22.50	1.355	-0.08	0.710	0.962
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	21.10	22.50	1.380	-0.04	0.397	0.548
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	21.13	22.50	1.371	-0.05	0.581	0.796
04	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1513	1752.6	21.18	22.50	1.355	-0.05	0.967	1.310
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	21.10	22.50	1.380	0	0.555	0.766
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	21.13	22.50	1.371	0.03	0.812	1.113
	WCDMA IV_UAT	RMC 12.2Kbps	Left Cheek	0mm	1513	1752.6	21.18	22.50	1.355	-0.11	0.558	0.756
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1513	1752.6	21.18	22.50	1.355	-0.06	0.743	1.007
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	21.10	22.50	1.380	0.03	0.425	0.587
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	21.13	22.50	1.371	0.16	0.621	0.851
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1513	1752.6	21.18	22.00	1.208	-0.08	0.710	0.858
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	21.10	22.00	1.230	-0.04	0.397	0.488
	WCDMA IV_UAT	RMC 12.2Kbps	Right Cheek	0mm	1413	1732.6	21.13	22.00	1.222	-0.05	0.581	0.710
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1513	1752.6	21.18	22.00	1.208	-0.05	0.967	1.168
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	21.10	22.00	1.230	0	0.555	0.683
	WCDMA IV_UAT	RMC 12.2Kbps	Right Tilted	0mm	1413	1732.6	21.13	22.00	1.222	0.03	0.812	0.992
	WCDMA IV_UAT	RMC 12.2Kbps	Left Cheek	0mm	1513	1752.6	21.18	22.00	1.208	-0.11	0.558	0.674
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1513	1752.6	21.18	22.00	1.208	-0.06	0.743	0.897
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	21.10	22.00	1.230	0.03	0.425	0.523
	WCDMA IV_UAT	RMC 12.2Kbps	Left Tilted	0mm	1413	1732.6	21.13	22.00	1.222	0.16	0.621	0.759
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_LAT	RMC 12.2Kbps	Right Cheek	0mm	1312	1712.4	23.33	24.00	1.167	-0.06	0.149	0.174
	WCDMA IV_LAT	RMC 12.2Kbps	Right Tilted	0mm	1312	1712.4	23.33	24.00	1.167	0.13	0.088	0.103
	WCDMA IV_LAT	RMC 12.2Kbps	Left Cheek	0mm	1312	1712.4	23.33	24.00	1.167	0.09	0.268	0.313
	WCDMA IV_LAT	RMC 12.2Kbps	Left Cheek	0mm	1413	1732.6	23.23	24.00	1.194	0.05	0.283	0.338
	WCDMA IV_LAT	RMC 12.2Kbps	Left Cheek	0mm	1513	1752.6	23.25	24.00	1.189	0.06	0.235	0.279
	WCDMA IV_LAT	RMC 12.2Kbps	Left Tilted	0mm	1312	1712.4	23.33	24.00	1.167	0.04	0.086	0.100

<WCDMA V>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_UAT	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	23.89	24.00	1.026	0.06	0.502	0.515
	WCDMA V_UAT	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	23.89	24.00	1.026	-0.06	0.685	0.703
	WCDMA V_UAT	RMC 12.2Kbps	Right Tilted	0mm	4182	836.4	23.75	24.00	1.059	-0.06	0.803	0.851
05	WCDMA V_UAT	RMC 12.2Kbps	Right Tilted	0mm	4233	846.6	23.83	24.00	1.040	-0.01	0.868	0.903
	WCDMA V_UAT	RMC 12.2Kbps	Left Cheek	0mm	4132	826.4	23.89	24.00	1.026	-0.01	0.528	0.542
	WCDMA V_UAT	RMC 12.2Kbps	Left Tilted	0mm	4132	826.4	23.89	24.00	1.026	-0.03	0.460	0.472
	WCDMA V_LAT	RMC 12.2Kbps	Right Cheek	0mm	4132	826.4	23.89	24.00	1.026	0.03	0.242	0.248
	WCDMA V_LAT	RMC 12.2Kbps	Right Cheek	0mm	4182	836.4	23.75	24.00	1.059	0.01	0.255	0.270
	WCDMA V_LAT	RMC 12.2Kbps	Right Cheek	0mm	4233	846.6	23.83	24.00	1.040	0	0.245	0.255
	WCDMA V_LAT	RMC 12.2Kbps	Right Tilted	0mm	4132	826.4	23.89	24.00	1.026	0.09	0.137	0.141
	WCDMA V_LAT	RMC 12.2Kbps	Left Cheek	0mm	4132	826.4	23.89	24.00	1.026	-0.04	0.215	0.221
	WCDMA V_LAT	RMC 12.2Kbps	Left Tilted	0mm	4132	826.4	23.89	24.00	1.026	0.05	0.129	0.132

<CDMA BC0>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	384	836.52	23.85	24.50	1.161	0	0.907	1.053
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1013	824.7	23.83	24.50	1.167	0.01	0.650	0.758
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	777	848.31	23.77	24.50	1.183	0.01	0.999	1.182
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	384	836.52	23.85	24.50	1.161	-0.15	0.885	1.028
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1013	824.7	23.83	24.50	1.167	-0.04	0.619	0.722
06	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	777	848.31	23.77	24.50	1.183	0.05	1.130	1.337
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	384	836.52	23.85	24.50	1.161	0.04	0.746	0.866
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	1013	824.7	23.83	24.50	1.167	-0.02	0.757	0.883
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	777	848.31	23.77	24.50	1.183	-0.01	0.810	0.958
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	384	836.52	23.85	24.50	1.161	0.03	0.722	0.839
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	1013	824.7	23.83	24.50	1.167	-0.02	0.758	0.884
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	777	848.31	23.77	24.50	1.183	0.03	0.945	1.118
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	384	836.52	23.85	24.00	1.035	0	0.907	0.939
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1013	824.7	23.83	24.00	1.040	0.01	0.650	0.676
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Cheek	0mm	777	848.31	23.77	24.00	1.054	0.01	0.999	1.053
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	384	836.52	23.85	24.00	1.035	-0.15	0.885	0.916
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1013	824.7	23.83	24.00	1.040	-0.04	0.619	0.644
	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	777	848.31	23.77	24.00	1.054	0.05	1.130	1.191
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	384	836.52	23.85	24.00	1.035	0.04	0.746	0.772
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	1013	824.7	23.83	24.00	1.040	-0.02	0.757	0.787
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Cheek	0mm	777	848.31	23.77	24.00	1.054	-0.01	0.810	0.854
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	384	836.52	23.85	24.00	1.035	0.03	0.722	0.747
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	1013	824.7	23.83	24.00	1.040	-0.02	0.758	0.788
	CDMA BC0_UAT	1xRTT RC3 SO55	Left Tilted	0mm	777	848.31	23.77	24.00	1.054	0.03	0.945	0.996
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_LAT	1xRTT RC1 SO55	Right Cheek	0mm	1013	824.7	24.30	25.00	1.175	-0.13	0.299	0.351
	CDMA BC0_LAT	1xRTT RC1 SO55	Right Cheek	0mm	384	836.52	24.26	25.00	1.186	0.03	0.307	0.364
	CDMA BC0_LAT	1xRTT RC1 SO55	Right Cheek	0mm	777	848.31	24.26	25.00	1.186	0.05	0.378	0.448
	CDMA BC0_LAT	1xRTT RC1 SO55	Right Tilted	0mm	1013	824.7	24.30	25.00	1.175	0.03	0.170	0.200
	CDMA BC0_LAT	1xRTT RC1 SO55	Left Cheek	0mm	1013	824.7	24.30	25.00	1.175	0.02	0.263	0.309
	CDMA BC0_LAT	1xRTT RC1 SO55	Left Tilted	0mm	1013	824.7	24.30	25.00	1.175	0.04	0.178	0.209

<CDMA BC1>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	600	1880	19.40	20.00	1.148	-0.07	0.916	1.052
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	25	1851.25	19.26	20.00	1.186	0.08	0.824	0.977
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1175	1908.75	19.32	20.00	1.169	0.09	0.871	1.019
07	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	19.40	20.00	1.148	0.1	1.170	1.343
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	25	1851.25	19.26	20.00	1.186	-0.1	1.060	1.257
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1175	1908.75	19.32	20.00	1.169	0.14	1.070	1.251
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	19.40	20.00	1.148	0	0.712	0.817
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	25	1851.25	19.26	20.00	1.186	-0.03	0.634	0.752
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	1175	1908.75	19.32	20.00	1.169	0	0.665	0.778
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	600	1880	19.40	20.00	1.148	-0.18	0.911	1.046
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	25	1851.25	19.26	20.00	1.186	-0.03	0.838	0.994
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	1175	1908.75	19.32	20.00	1.169	-0.17	0.847	0.991
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	600	1880	19.40	19.50	1.023	-0.07	0.916	0.937
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	25	1851.25	19.26	19.50	1.057	0.08	0.824	0.871
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Cheek	0mm	1175	1908.75	19.32	19.50	1.042	0.09	0.871	0.908
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	19.40	19.50	1.023	0.1	1.170	1.197
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	25	1851.25	19.26	19.50	1.057	-0.1	1.060	1.120
	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	1175	1908.75	19.32	19.50	1.042	0.14	1.070	1.115
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	19.40	19.50	1.023	0	0.712	0.729
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	25	1851.25	19.26	19.50	1.057	-0.03	0.634	0.670
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Cheek	0mm	1175	1908.75	19.32	19.50	1.042	0	0.665	0.693
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	600	1880	19.40	19.50	1.023	-0.18	0.911	0.932
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	25	1851.25	19.26	19.50	1.057	-0.03	0.838	0.886
	CDMA BC1_UAT	1xRTT RC3 SO55	Left Tilted	0mm	1175	1908.75	19.32	19.50	1.042	-0.17	0.847	0.883
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_LAT	1xRTT RC3 SO55	Right Cheek	0mm	25	1851.25	24.68	25.00	1.076	-0.01	0.179	0.193
	CDMA BC1_LAT	1xRTT RC3 SO55	Right Tilted	0mm	25	1851.25	24.68	25.00	1.076	-0.09	0.117	0.126
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	25	1851.25	24.68	25.00	1.076	0.13	0.274	0.295
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	600	1880	24.47	25.00	1.130	0.03	0.359	0.406
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Cheek	0mm	1175	1908.75	24.40	25.00	1.148	0.01	0.339	0.389
	CDMA BC1_LAT	1xRTT RC3 SO55	Left Tilted	0mm	25	1851.25	24.68	25.00	1.076	0.16	0.137	0.147

<CDMA BC10>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC10_UAT	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.36	25.00	1.159	-0.01	0.947	1.097
08	CDMA BC10_UAT	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.36	25.00	1.159	-0.11	1.120	1.298
	CDMA BC10_UAT	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.36	25.00	1.159	-0.02	0.889	1.030
	CDMA BC10_UAT	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.36	25.00	1.159	-0.03	1.020	1.182
	CDMA BC10_LAT	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.36	25.00	1.159	0.04	0.299	0.346
	CDMA BC10_LAT	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.36	25.00	1.159	0.11	0.145	0.168
	CDMA BC10_LAT	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.36	25.00	1.159	0	0.303	0.351
	CDMA BC10_LAT	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.36	25.00	1.159	0.05	0.169	0.196
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC10_UAT	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.36	24.50	1.033	-0.01	0.947	0.978
	CDMA BC10_UAT	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.36	24.50	1.033	-0.11	1.120	1.157
	CDMA BC10_UAT	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.36	24.50	1.033	-0.02	0.889	0.918
	CDMA BC10_UAT	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.36	24.50	1.033	-0.03	1.020	1.053
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC10_LAT	1xRTT RC3 SO55	Right Cheek	0mm	580	820.5	24.36	25.00	1.159	0.04	0.299	0.346
	CDMA BC10_LAT	1xRTT RC3 SO55	Right Tilted	0mm	580	820.5	24.36	25.00	1.159	0.11	0.145	0.168
	CDMA BC10_LAT	1xRTT RC3 SO55	Left Cheek	0mm	580	820.5	24.36	25.00	1.159	0	0.303	0.351
	CDMA BC10_LAT	1xRTT RC3 SO55	Left Tilted	0mm	580	820.5	24.36	25.00	1.159	0.05	0.169	0.196



<FDD LTE B7>

WIFI off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
09	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	18.97	20.00	1.268	-0.05	0.992	1.258
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	18.81	20.00	1.315	-0.02	0.972	1.278
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	18.95	20.00	1.274	0	0.912	1.161
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21100	2535	18.95	20.00	1.274	-0.08	0.986	1.256
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	20850	2510	18.74	20.00	1.337	0	0.944	1.262
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21350	2560	18.74	20.00	1.337	-0.02	0.896	1.198
	LTE Band 7_UAT	20M	QPSK	100	0	Right Cheek	0mm	21100	2535	18.94	20.00	1.276	-0.05	0.944	1.205
	LTE Band 7_UAT	20M	QPSK	1	0	Right Tilted	0mm	21100	2535	18.97	20.00	1.268	0.07	0.450	0.570
	LTE Band 7_UAT	20M	QPSK	50	0	Right Tilted	0mm	21100	2535	18.95	20.00	1.274	-0.07	0.444	0.565
	LTE Band 7_UAT	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	18.97	20.00	1.268	-0.12	0.345	0.437
	LTE Band 7_UAT	20M	QPSK	50	0	Left Cheek	0mm	21100	2535	18.95	20.00	1.274	0	0.347	0.442
	LTE Band 7_UAT	20M	QPSK	1	0	Left Tilted	0mm	21100	2535	18.97	20.00	1.268	-0.16	0.470	0.596
	LTE Band 7_UAT	20M	QPSK	50	0	Left Tilted	0mm	21100	2535	18.95	20.00	1.274	0.08	0.463	0.590
WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21100	2535	18.97	19.50	1.130	-0.05	0.992	1.121
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	20850	2510	18.81	19.50	1.172	-0.02	0.972	1.139
	LTE Band 7_UAT	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	18.95	19.50	1.135	0	0.912	1.035
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21100	2535	18.95	19.50	1.135	-0.08	0.986	1.119
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	20850	2510	18.74	19.50	1.191	0	0.944	1.125
	LTE Band 7_UAT	20M	QPSK	50	0	Right Cheek	0mm	21350	2560	18.74	19.50	1.191	-0.02	0.896	1.067
	LTE Band 7_UAT	20M	QPSK	100	0	Right Cheek	0mm	21100	2535	18.94	19.50	1.138	-0.05	0.944	1.074
	LTE Band 7_UAT	20M	QPSK	1	0	Right Tilted	0mm	21100	2535	18.97	19.50	1.130	0.07	0.450	0.508
	LTE Band 7_UAT	20M	QPSK	50	0	Right Tilted	0mm	21100	2535	18.95	19.50	1.135	-0.07	0.444	0.504
	LTE Band 7_UAT	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	18.97	19.50	1.130	-0.12	0.345	0.390
	LTE Band 7_UAT	20M	QPSK	50	0	Left Cheek	0mm	21100	2535	18.95	19.50	1.135	0	0.347	0.394
	LTE Band 7_UAT	20M	QPSK	1	0	Left Tilted	0mm	21100	2535	18.97	19.50	1.130	-0.16	0.470	0.531
	LTE Band 7_UAT	20M	QPSK	50	0	Left Tilted	0mm	21100	2535	18.95	19.50	1.135	0.08	0.463	0.526
WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_LAT	20M	QPSK	1	0	Right Cheek	0mm	21350	2560	23.36	24.00	1.159	0.03	0.091	0.105
	LTE Band 7_LAT	20M	QPSK	50	0	Right Cheek	0mm	21350	2560	22.24	23.00	1.191	0.03	0.070	0.083
	LTE Band 7_LAT	20M	QPSK	1	0	Right Tilted	0mm	21350	2560	23.36	24.00	1.159	0.18	0.049	0.057
	LTE Band 7_LAT	20M	QPSK	50	0	Right Tilted	0mm	21350	2560	22.24	23.00	1.191	-0.04	0.036	0.043
	LTE Band 7_LAT	20M	QPSK	1	0	Left Cheek	0mm	21350	2560	23.36	24.00	1.159	0.1	0.155	0.180
	LTE Band 7_LAT	20M	QPSK	1	0	Left Cheek	0mm	20850	2510	23.01	24.00	1.256	0.07	0.250	0.314
	LTE Band 7_LAT	20M	QPSK	1	0	Left Cheek	0mm	21100	2535	23.13	24.00	1.222	-0.13	0.156	0.191
	LTE Band 7_LAT	20M	QPSK	50	0	Left Cheek	0mm	21350	2560	22.24	23.00	1.191	0.08	0.112	0.133
	LTE Band 7_LAT	20M	QPSK	1	0	Left Tilted	0mm	21350	2560	23.36	24.00	1.159	0.12	0.108	0.125
LTE Band 7_LAT	20M	QPSK	50	0	Left Tilted	0mm	21350	2560	22.24	23.00	1.191	0.09	0.080	0.095	

**<FDD LTE B12>**

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
10	LTE Band 12_UAT	10M	QPSK	1	0	Right Cheek	0mm	23095	707.5	23.64	24.50	1.219	-0.06	0.599	0.730
	LTE Band 12_UAT	10M	QPSK	25	0	Right Cheek	0mm	23095	707.5	22.63	23.50	1.222	-0.07	0.490	0.599
	LTE Band 12_UAT	10M	QPSK	1	0	Right Tilted	0mm	23095	707.5	23.64	24.50	1.219	0.06	0.527	0.642
	LTE Band 12_UAT	10M	QPSK	25	0	Right Tilted	0mm	23095	707.5	22.63	23.50	1.222	0.03	0.431	0.527
	LTE Band 12_UAT	10M	QPSK	1	0	Left Cheek	0mm	23095	707.5	23.64	24.50	1.219	-0.03	0.498	0.607
	LTE Band 12_UAT	10M	QPSK	25	0	Left Cheek	0mm	23095	707.5	22.63	23.50	1.222	-0.08	0.400	0.489
	LTE Band 12_UAT	10M	QPSK	1	0	Left Tilted	0mm	23095	707.5	23.64	24.50	1.219	0	0.496	0.605
	LTE Band 12_UAT	10M	QPSK	25	0	Left Tilted	0mm	23095	707.5	22.63	23.50	1.222	0.01	0.406	0.496
	LTE Band 12_LAT	10M	QPSK	1	0	Right Cheek	0mm	23095	707.5	23.64	24.50	1.219	-0.17	0.213	0.260
	LTE Band 12_LAT	10M	QPSK	25	0	Right Cheek	0mm	23095	707.5	22.63	23.50	1.222	-0.02	0.164	0.200
	LTE Band 12_LAT	10M	QPSK	1	0	Right Tilted	0mm	23095	707.5	23.64	24.50	1.219	-0.04	0.118	0.144
	LTE Band 12_LAT	10M	QPSK	25	0	Right Tilted	0mm	23095	707.5	22.63	23.50	1.222	0	0.093	0.114
	LTE Band 12_LAT	10M	QPSK	1	0	Left Cheek	0mm	23095	707.5	23.64	24.50	1.219	-0.11	0.203	0.247
	LTE Band 12_LAT	10M	QPSK	25	0	Left Cheek	0mm	23095	707.5	22.63	23.50	1.222	0.16	0.155	0.189
	LTE Band 12_LAT	10M	QPSK	1	0	Left Tilted	0mm	23095	707.5	23.64	24.50	1.219	0.16	0.155	0.189
	LTE Band 12_LAT	10M	QPSK	25	0	Left Tilted	0mm	23095	707.5	22.63	23.50	1.222	0.01	0.139	0.170

<FDD LTE B13>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
11	LTE Band 13_UAT	10M	QPSK	1	0	Right Cheek	0mm	23230	782	23.60	24.50	1.230	-0.02	0.765	0.941
	LTE Band 13_UAT	10M	QPSK	25	0	Right Cheek	0mm	23230	782	22.52	23.50	1.253	-0.08	0.586	0.734
	LTE Band 13_UAT	10M	QPSK	50	0	Right Cheek	0mm	23230	782	22.49	23.50	1.262	0.02	0.570	0.719
	LTE Band 13_UAT	10M	QPSK	1	0	Right Tilted	0mm	23230	782	23.60	24.50	1.230	-0.04	0.632	0.778
	LTE Band 13_UAT	10M	QPSK	25	0	Right Tilted	0mm	23230	782	22.52	23.50	1.253	0.02	0.484	0.607
	LTE Band 13_UAT	10M	QPSK	1	0	Left Cheek	0mm	23230	782	23.60	24.50	1.230	0.08	0.610	0.750
	LTE Band 13_UAT	10M	QPSK	25	0	Left Cheek	0mm	23230	782	22.52	23.50	1.253	0.06	0.466	0.584
	LTE Band 13_UAT	10M	QPSK	1	0	Left Tilted	0mm	23230	782	23.60	24.50	1.230	-0.03	0.609	0.749
	LTE Band 13_UAT	10M	QPSK	25	0	Left Tilted	0mm	23230	782	22.52	23.50	1.253	-0.03	0.496	0.622
	LTE Band 13_LAT	10M	QPSK	1	0	Right Cheek	0mm	23230	782	23.60	24.50	1.230	-0.03	0.240	0.295
	LTE Band 13_LAT	10M	QPSK	25	0	Right Cheek	0mm	23230	782	22.52	23.50	1.253	0.11	0.186	0.233
	LTE Band 13_LAT	10M	QPSK	1	0	Right Tilted	0mm	23230	782	23.60	24.50	1.230	-0.01	0.147	0.181
	LTE Band 13_LAT	10M	QPSK	25	0	Right Tilted	0mm	23230	782	22.52	23.50	1.253	-0.02	0.115	0.144
	LTE Band 13_LAT	10M	QPSK	1	0	Left Cheek	0mm	23230	782	23.60	24.50	1.230	0.05	0.245	0.301
	LTE Band 13_LAT	10M	QPSK	25	0	Left Cheek	0mm	23230	782	22.52	23.50	1.253	0.04	0.188	0.236
	LTE Band 13_LAT	10M	QPSK	1	0	Left Tilted	0mm	23230	782	23.60	24.50	1.230	-0.02	0.171	0.210
	LTE Band 13_LAT	10M	QPSK	25	0	Left Tilted	0mm	23230	782	22.52	23.50	1.253	0.04	0.134	0.168

**FCC SAR TEST REPORT**

Report No. : FA820502-02

<FDD LTE B25>

WIFI off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	18.78	19.50	1.180	0.04	0.775	0.915
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	18.66	19.50	1.213	-0.01	0.822	0.997
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	18.58	19.50	1.236	0.09	0.803	0.992
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26590	1905	18.74	19.50	1.191	0.12	0.769	0.916
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26140	1860	18.63	19.50	1.222	0.01	0.827	1.010
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	18.56	19.50	1.242	0.06	0.778	0.966
	LTE Band 25_UAT	20M	QPSK	100	0	Right Cheek	0mm	26590	1905	18.77	19.50	1.183	-0.01	0.800	0.946
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	18.78	19.50	1.180	-0.09	1.050	1.239
12	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26140	1860	18.66	19.50	1.213	0.03	1.110	1.347
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	18.58	19.50	1.236	0.07	1.060	1.310
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26590	1905	18.74	19.50	1.191	0.05	1.020	1.215
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26140	1860	18.63	19.50	1.222	0.02	0.998	1.219
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	18.56	19.50	1.242	0.07	1.020	1.266
	LTE Band 25_UAT	20M	QPSK	100	0	Right Tilted	0mm	26590	1905	18.77	19.50	1.183	0.07	1.090	1.290
	LTE Band 25_UAT	20M	QPSK	1	0	Left Cheek	0mm	26590	1905	18.78	19.50	1.180	0.04	0.602	0.711
	LTE Band 25_UAT	20M	QPSK	50	0	Left Cheek	0mm	26590	1905	18.74	19.50	1.191	0.12	0.571	0.680
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26590	1905	18.78	19.50	1.180	0.05	0.766	0.904
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26140	1860	18.66	19.50	1.213	0.02	0.850	1.031
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	18.58	19.50	1.236	0.07	0.814	1.006
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26590	1905	18.74	19.50	1.191	-0.03	0.749	0.892
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26140	1860	18.63	19.50	1.222	0.04	0.843	1.030
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	18.56	19.50	1.242	0.12	0.804	0.998
	LTE Band 25_UAT	20M	QPSK	100	0	Left Tilted	0mm	26590	1905	18.77	19.50	1.183	-0.17	0.722	0.854
WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	18.78	19.00	1.052	0.04	0.775	0.815
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26140	1860	18.66	19.00	1.081	-0.01	0.822	0.889
	LTE Band 25_UAT	20M	QPSK	1	0	Right Cheek	0mm	26340	1880	18.58	19.00	1.102	0.09	0.803	0.885
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26590	1905	18.74	19.00	1.062	0.12	0.769	0.816
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26140	1860	18.63	19.00	1.089	0.01	0.827	0.901
	LTE Band 25_UAT	20M	QPSK	50	0	Right Cheek	0mm	26340	1880	18.56	19.00	1.107	0.06	0.778	0.861
	LTE Band 25_UAT	20M	QPSK	100	0	Right Cheek	0mm	26590	1905	18.77	19.00	1.054	-0.01	0.800	0.844
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	18.78	19.00	1.052	-0.09	1.050	1.105
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26140	1860	18.66	19.00	1.081	0.03	1.110	1.200
	LTE Band 25_UAT	20M	QPSK	1	0	Right Tilted	0mm	26340	1880	18.58	19.00	1.102	0.07	1.060	1.168
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26590	1905	18.74	19.00	1.062	0.05	1.020	1.083
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26140	1860	18.63	19.00	1.089	0.02	0.998	1.087
	LTE Band 25_UAT	20M	QPSK	50	0	Right Tilted	0mm	26340	1880	18.56	19.00	1.107	0.07	1.020	1.129
	LTE Band 25_UAT	20M	QPSK	100	0	Right Tilted	0mm	26590	1905	18.77	19.00	1.054	0.07	1.090	1.149
	LTE Band 25_UAT	20M	QPSK	1	0	Left Cheek	0mm	26590	1905	18.78	19.00	1.052	0.04	0.602	0.633
	LTE Band 25_UAT	20M	QPSK	50	0	Left Cheek	0mm	26590	1905	18.74	19.00	1.062	0.12	0.571	0.606
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26590	1905	18.78	19.00	1.052	0.05	0.766	0.806
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26140	1860	18.66	19.00	1.081	0.02	0.850	0.919
	LTE Band 25_UAT	20M	QPSK	1	0	Left Tilted	0mm	26340	1880	18.58	19.00	1.102	0.07	0.814	0.897
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26590	1905	18.74	19.00	1.062	-0.03	0.749	0.795
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26140	1860	18.63	19.00	1.089	0.04	0.843	0.918
	LTE Band 25_UAT	20M	QPSK	50	0	Left Tilted	0mm	26340	1880	18.56	19.00	1.107	0.12	0.804	0.890
	LTE Band 25_UAT	20M	QPSK	100	0	Left Tilted	0mm	26590	1905	18.77	19.00	1.054	-0.17	0.722	0.761
WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_LAT	20M	QPSK	1	0	Right Cheek	0mm	26590	1905	23.61	24.00	1.094	0.04	0.104	0.114
	LTE Band 25_LAT	20M	QPSK	50	0	Right Cheek	0mm	26590	1905	22.59	23.00	1.099	0.1	0.068	0.075
	LTE Band 25_LAT	20M	QPSK	1	0	Right Tilted	0mm	26590	1905	23.61	24.00	1.094	0.05	0.077	0.084
	LTE Band 25_LAT	20M	QPSK	50	0	Right Tilted	0mm	26590	1905	22.59	23.00	1.099	-0.01	0.045	0.049
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26590	1905	23.61	24.00	1.094	0.05	0.162	0.177
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26140	1860	23.42	24.00	1.143	0.01	0.175	0.200
	LTE Band 25_LAT	20M	QPSK	1	0	Left Cheek	0mm	26340	1880	23.39	24.00	1.151	0.03	0.151	0.174
	LTE Band 25_LAT	20M	QPSK	50	0	Left Cheek	0mm	26590	1905	22.59	23.00	1.099	0.06	0.118	0.130
	LTE Band 25_LAT	20M	QPSK	1	0	Left Tilted	0mm	26590	1905	23.61	24.00	1.094	-0.09	0.089	0.097
	LTE Band 25_LAT	20M	QPSK	50	0	Left Tilted	0mm	26590	1905	22.59	23.00	1.099	0.14	0.062	0.068



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WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
13	LTE Band 26_UAT	15M	QPSK	1	0	Right Cheek	0mm	26865	831.5	24.24	24.50	1.062	-0.07	0.806	0.856
	LTE Band 26_UAT	15M	QPSK	36	0	Right Cheek	0mm	26865	831.5	22.95	23.50	1.135	-0.09	0.649	0.737
	LTE Band 26_UAT	15M	QPSK	75	0	Right Cheek	0mm	26865	831.5	22.86	23.50	1.159	0.07	0.574	0.665
	LTE Band 26_UAT	15M	QPSK	1	0	Right Tilted	0mm	26865	831.5	24.24	24.50	1.062	-0.07	0.631	0.670
	LTE Band 26_UAT	15M	QPSK	36	0	Right Tilted	0mm	26865	831.5	22.95	23.50	1.135	-0.01	0.579	0.657
	LTE Band 26_UAT	15M	QPSK	1	0	Left Cheek	0mm	26865	831.5	24.24	24.50	1.062	0.02	0.618	0.656
	LTE Band 26_UAT	15M	QPSK	36	0	Left Cheek	0mm	26865	831.5	22.95	23.50	1.135	-0.01	0.543	0.616
	LTE Band 26_UAT	15M	QPSK	1	0	Left Tilted	0mm	26865	831.5	24.24	24.50	1.062	-0.02	0.612	0.650
	LTE Band 26_UAT	15M	QPSK	36	0	Left Tilted	0mm	26865	831.5	22.95	23.50	1.135	-0.03	0.551	0.625
	LTE Band 26_LAT	15M	QPSK	1	0	Right Cheek	0mm	26865	831.5	24.24	24.50	1.062	0.05	0.212	0.225
	LTE Band 26_LAT	15M	QPSK	36	0	Right Cheek	0mm	26865	831.5	22.95	23.50	1.135	0.05	0.161	0.183
	LTE Band 26_LAT	15M	QPSK	1	0	Right Tilted	0mm	26865	831.5	24.24	24.50	1.062	0.06	0.120	0.127
	LTE Band 26_LAT	15M	QPSK	36	0	Right Tilted	0mm	26865	831.5	22.95	23.50	1.135	0.05	0.087	0.099
	LTE Band 26_LAT	15M	QPSK	1	0	Left Cheek	0mm	26865	831.5	24.24	24.50	1.062	-0.02	0.219	0.233
	LTE Band 26_LAT	15M	QPSK	36	0	Left Cheek	0mm	26865	831.5	22.95	23.50	1.135	0.02	0.163	0.185
	LTE Band 26_LAT	15M	QPSK	1	0	Left Tilted	0mm	26865	831.5	24.24	24.50	1.062	0.1	0.127	0.135
	LTE Band 26_LAT	15M	QPSK	36	0	Left Tilted	0mm	26865	831.5	22.95	23.50	1.135	0.06	0.091	0.103

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WIFI off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	22.44	23.00	1.138	-0.06	1.060	1.206
14	LTE Band 30_UAT	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	22.40	23.00	1.148	-0.02	1.120	1.286
	LTE Band 30_UAT	10M	QPSK	50	0	Right Cheek	0mm	27710	2310	22.38	23.00	1.153	-0.09	1.090	1.257
	LTE Band 30_UAT	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	22.44	23.00	1.138	0.03	0.629	0.716
	LTE Band 30_UAT	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	22.40	23.00	1.148	0.09	0.643	0.738
	LTE Band 30_UAT	10M	QPSK	1	0	Left Cheek	0mm	27710	2310	22.44	23.00	1.138	-0.1	0.606	0.689
	LTE Band 30_UAT	10M	QPSK	25	0	Left Cheek	0mm	27710	2310	22.40	23.00	1.148	-0.05	0.625	0.718
	LTE Band 30_UAT	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	22.44	23.00	1.138	0.03	0.688	0.783
	LTE Band 30_UAT	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	22.40	23.00	1.148	0.09	0.708	0.813
WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	22.44	22.50	1.014	-0.06	1.060	1.075
	LTE Band 30_UAT	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	22.40	22.50	1.023	-0.02	1.120	1.146
	LTE Band 30_UAT	10M	QPSK	50	0	Right Cheek	0mm	27710	2310	22.38	22.50	1.028	-0.09	1.090	1.121
	LTE Band 30_UAT	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	22.44	22.50	1.014	0.03	0.629	0.638
	LTE Band 30_UAT	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	22.40	22.50	1.023	0.09	0.643	0.658
	LTE Band 30_UAT	10M	QPSK	1	0	Left Cheek	0mm	27710	2310	22.44	22.50	1.014	-0.1	0.606	0.614
	LTE Band 30_UAT	10M	QPSK	25	0	Left Cheek	0mm	27710	2310	22.40	22.50	1.023	-0.05	0.625	0.640
	LTE Band 30_UAT	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	22.44	22.50	1.014	0.03	0.688	0.698
	LTE Band 30_UAT	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	22.40	22.50	1.023	0.09	0.708	0.724
WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_LAT	10M	QPSK	1	0	Right Cheek	0mm	27710	2310	23.19	24.00	1.205	0.16	0.170	0.205
	LTE Band 30_LAT	10M	QPSK	25	0	Right Cheek	0mm	27710	2310	22.19	23.00	1.205	0.12	0.137	0.165
	LTE Band 30_LAT	10M	QPSK	1	0	Right Tilted	0mm	27710	2310	23.19	24.00	1.205	0.17	0.115	0.139
	LTE Band 30_LAT	10M	QPSK	25	0	Right Tilted	0mm	27710	2310	22.19	23.00	1.205	-0.12	0.091	0.110
	LTE Band 30_LAT	10M	QPSK	1	0	Left Cheek	0mm	27710	2310	23.19	24.00	1.205	0.08	0.272	0.328
	LTE Band 30_LAT	10M	QPSK	25	0	Left Cheek	0mm	27710	2310	22.19	23.00	1.205	0.07	0.215	0.259
	LTE Band 30_LAT	10M	QPSK	1	0	Left Tilted	0mm	27710	2310	23.19	24.00	1.205	0.11	0.064	0.077
	LTE Band 30_LAT	10M	QPSK	25	0	Left Tilted	0mm	27710	2310	22.19	23.00	1.205	0.16	0.051	0.061



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WIFI off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132072	1720	20.15	21.00	1.216	-0.19	0.512	0.623
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132072	1720	20.14	21.00	1.219	0.11	0.504	0.614
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	20.15	21.00	1.216	0.13	0.741	0.901
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	20.11	21.00	1.227	0.08	0.879	1.079
15	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132572	1770	20.02	21.00	1.253	0	1.040	1.303
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	20.14	21.00	1.219	0.1	0.737	0.898
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	20.04	21.00	1.247	0.13	0.854	1.065
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132572	1770	20.02	21.00	1.253	0.07	1.020	1.278
	LTE Band 66_UAT	20M	QPSK	100	0	Right Tilted	0mm	132072	1720	20.08	21.00	1.236	0.01	0.803	0.992
	LTE Band 66_UAT	20M	QPSK	1	0	Left Cheek	0mm	132072	1720	20.15	21.00	1.216	-0.05	0.425	0.517
	LTE Band 66_UAT	20M	QPSK	50	0	Left Cheek	0mm	132072	1720	20.14	21.00	1.219	0.06	0.451	0.550
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132072	1720	20.15	21.00	1.216	0.01	0.553	0.673
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132072	1720	20.14	21.00	1.219	0.18	0.586	0.714
WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Right Cheek	0mm	132072	1720	20.15	20.50	1.084	-0.19	0.512	0.555
	LTE Band 66_UAT	20M	QPSK	50	0	Right Cheek	0mm	132072	1720	20.14	20.50	1.086	0.11	0.504	0.548
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	20.15	20.50	1.084	0.13	0.741	0.803
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132322	1745	20.11	20.50	1.094	0.08	0.879	0.962
	LTE Band 66_UAT	20M	QPSK	1	0	Right Tilted	0mm	132572	1770	20.02	20.50	1.117	0	1.040	1.162
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	20.14	20.50	1.086	0.1	0.737	0.801
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132322	1745	20.04	20.50	1.112	0.13	0.854	0.949
	LTE Band 66_UAT	20M	QPSK	50	0	Right Tilted	0mm	132572	1770	20.02	20.50	1.117	0.07	1.020	1.139
	LTE Band 66_UAT	20M	QPSK	100	0	Right Tilted	0mm	132072	1720	20.08	20.50	1.102	0.01	0.803	0.885
	LTE Band 66_UAT	20M	QPSK	1	0	Left Cheek	0mm	132072	1720	20.15	20.50	1.084	-0.05	0.425	0.461
	LTE Band 66_UAT	20M	QPSK	50	0	Left Cheek	0mm	132072	1720	20.14	20.50	1.086	0.06	0.451	0.490
	LTE Band 66_UAT	20M	QPSK	1	0	Left Tilted	0mm	132072	1720	20.15	20.50	1.084	0.01	0.553	0.599
	LTE Band 66_UAT	20M	QPSK	50	0	Left Tilted	0mm	132072	1720	20.14	20.50	1.086	0.18	0.586	0.637
WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_LAT	20M	QPSK	1	0	Right Cheek	0mm	132072	1720	23.23	24.00	1.194	0.01	0.130	0.155
	LTE Band 66_LAT	20M	QPSK	50	0	Right Cheek	0mm	132072	1720	22.23	23.00	1.194	-0.02	0.109	0.130
	LTE Band 66_LAT	20M	QPSK	1	0	Right Tilted	0mm	132072	1720	23.23	24.00	1.194	0.07	0.101	0.121
	LTE Band 66_LAT	20M	QPSK	50	0	Right Tilted	0mm	132072	1720	22.23	23.00	1.194	0.08	0.077	0.092
	LTE Band 66_LAT	20M	QPSK	1	0	Left Cheek	0mm	132072	1720	23.23	24.00	1.194	0.07	0.253	0.302
	LTE Band 66_LAT	20M	QPSK	1	0	Left Cheek	0mm	132322	1745	23.03	24.00	1.250	0.07	0.328	0.410
	LTE Band 66_LAT	20M	QPSK	1	0	Left Cheek	0mm	132572	1770	23.01	24.00	1.256	0.07	0.291	0.366
	LTE Band 66_LAT	20M	QPSK	50	0	Left Cheek	0mm	132072	1720	22.23	23.00	1.194	0.09	0.248	0.296
	LTE Band 66_LAT	20M	QPSK	1	0	Left Tilted	0mm	132072	1720	23.23	24.00	1.194	0.1	0.087	0.104
	LTE Band 66_LAT	20M	QPSK	50	0	Left Tilted	0mm	132072	1720	22.23	23.00	1.194	0.06	0.074	0.088



<FDD LTE B71>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
16	LTE Band 71_UAT	20M	QPSK	1	0	Right Cheek	0mm	133322	683	24.18	24.50	1.076	-0.07	0.651	0.701
	LTE Band 71_UAT	20M	QPSK	50	0	Right Cheek	0mm	133322	683	22.40	23.50	1.288	0	0.454	0.585
	LTE Band 71_UAT	20M	QPSK	1	0	Right Tilted	0mm	133322	683	24.18	24.50	1.076	0.05	0.646	0.695
	LTE Band 71_UAT	20M	QPSK	50	0	Right Tilted	0mm	133322	683	22.40	23.50	1.288	0.01	0.437	0.563
	LTE Band 71_UAT	20M	QPSK	1	0	Left Cheek	0mm	133322	683	24.18	24.50	1.076	0.03	0.606	0.652
	LTE Band 71_UAT	20M	QPSK	50	0	Left Cheek	0mm	133322	683	22.40	23.50	1.288	-0.08	0.419	0.540
	LTE Band 71_UAT	20M	QPSK	1	0	Left Tilted	0mm	133322	683	24.18	24.50	1.076	-0.12	0.650	0.700
	LTE Band 71_UAT	20M	QPSK	50	0	Left Tilted	0mm	133322	683	22.40	23.50	1.288	0	0.421	0.542
	LTE Band 71_LAT	20M	QPSK	1	0	Right Cheek	0mm	133322	683	24.18	24.50	1.076	0.08	0.150	0.161
	LTE Band 71_LAT	20M	QPSK	50	0	Right Cheek	0mm	133322	683	22.40	24.50	1.622	0.11	0.095	0.154
	LTE Band 71_LAT	20M	QPSK	1	0	Right Tilted	0mm	133322	683	24.18	24.50	1.076	0.06	0.088	0.095
	LTE Band 71_LAT	20M	QPSK	50	0	Right Tilted	0mm	133322	683	22.40	24.50	1.622	0.13	0.056	0.091
	LTE Band 71_LAT	20M	QPSK	1	0	Left Cheek	0mm	133322	683	24.18	24.50	1.076	0.07	0.205	0.221
	LTE Band 71_LAT	20M	QPSK	50	0	Left Cheek	0mm	133322	683	22.40	24.50	1.622	0.11	0.133	0.216
	LTE Band 71_LAT	20M	QPSK	1	0	Left Tilted	0mm	133322	683	24.18	24.50	1.076	0.03	0.086	0.093
	LTE Band 71_LAT	20M	QPSK	50	0	Left Tilted	0mm	133322	683	22.40	24.50	1.622	0.1	0.070	0.114



FCC SAR TEST REPORT

Report No. : FA820502-02

<TDD LTE B41>

WIFI off																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	21.27	22.00	1.183	62.9	1.006	-0.1	0.944	1.123
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	21.17	22.00	1.211	62.9	1.006	-0.1	1.040	1.267
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	21.26	22.00	1.186	62.9	1.006	-0.19	1.040	1.241
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	21.21	22.00	1.199	62.9	1.006	-0.09	0.973	1.174
	17	LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	20.78	22.00	1.324	62.9	1.006	-0.07	0.966	1.287
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41055	2636.5	21.20	22.00	1.202	62.9	1.006	0.19	0.935	1.131
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	39750	2506	21.10	22.00	1.230	62.9	1.006	0.04	1.023	1.266
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40185	2549.5	21.18	22.00	1.208	62.9	1.006	-0.09	1.050	1.276
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40620	2593	20.98	22.00	1.265	62.9	1.006	0	0.953	1.213
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41490	2680	20.78	22.00	1.324	62.9	1.006	-0.03	0.946	1.260
		LTE Band 41_UAT	20M	QPSK	100	0	Right Cheek	0mm	40185	2549.5	21.14	22.00	1.219	62.9	1.006	0.17	1.020	1.251
		LTE Band 41_UAT	20M	QPSK	1	0	Right Tilted	0mm	41055	2636.5	21.27	22.00	1.183	62.9	1.006	0.05	0.432	0.514
		LTE Band 41_UAT	20M	QPSK	50	0	Right Tilted	0mm	41055	2636.5	21.20	22.00	1.202	62.9	1.006	0.03	0.417	0.504
		LTE Band 41_UAT	20M	QPSK	1	0	Left Cheek	0mm	41055	2636.5	21.27	22.00	1.183	62.9	1.006	-0.07	0.279	0.332
		LTE Band 41_UAT	20M	QPSK	50	0	Left Cheek	0mm	41055	2636.5	21.20	22.00	1.202	62.9	1.006	0.11	0.257	0.311
		LTE Band 41_UAT	20M	QPSK	1	0	Left Tilted	0mm	41055	2636.5	21.27	22.00	1.183	62.9	1.006	0.15	0.475	0.565
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	41055	2636.5	21.20	22.00	1.202	62.9	1.006	0.16	0.512	0.619
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	39790	2510	21.11	22.00	1.227	62.9	1.006	-0.05	0.463	0.572
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	39750	2506	21.10	22.00	1.230	62.9	1.006	0.06	0.352	0.436
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	40185	2549.5	21.18	22.00	1.208	62.9	1.006	0.13	0.376	0.457
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	40620	2593	20.98	22.00	1.265	62.9	1.006	0.19	0.413	0.525
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	41490	2680	20.78	22.00	1.324	62.9	1.006	0.07	0.600	0.799
		LTE Band 41_UAT	20M	QPSK	100	0	Left Tilted	0mm	40185	2549.5	21.14	22.00	1.219	62.9	1.006	-0.04	0.369	0.453
HPUE		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	22.06	23.50	1.393	42.9	1.009	-0.18	0.902	1.268
WIFI on																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41055	2636.5	21.27	21.50	1.054	62.90	1.006	-0.1	0.944	1.001
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	39750	2506	21.17	21.50	1.079	62.90	1.006	-0.1	1.040	1.129
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	21.26	21.50	1.057	62.90	1.006	-0.19	1.040	1.106
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	40620	2593	21.21	21.50	1.069	62.90	1.006	-0.09	0.973	1.046
		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	20.78	21.50	1.180	62.90	1.006	-0.07	0.966	1.147
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41055	2636.5	21.20	21.50	1.072	62.90	1.006	0.19	0.935	1.008
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	39750	2506	21.10	21.50	1.096	62.90	1.006	0.04	1.023	1.128
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40185	2549.5	21.18	21.50	1.076	62.90	1.006	-0.09	1.050	1.137
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	40620	2593	20.98	21.50	1.127	62.90	1.006	0	0.953	1.081
		LTE Band 41_UAT	20M	QPSK	50	0	Right Cheek	0mm	41490	2680	20.78	21.50	1.180	62.90	1.006	-0.03	0.946	1.123
		LTE Band 41_UAT	20M	QPSK	100	0	Right Cheek	0mm	40185	2549.5	21.14	21.50	1.086	62.90	1.006	0.17	1.020	1.115
		LTE Band 41_UAT	20M	QPSK	1	0	Right Tilted	0mm	41055	2636.5	21.27	21.50	1.054	62.90	1.006	0.05	0.432	0.458
		LTE Band 41_UAT	20M	QPSK	50	0	Right Tilted	0mm	41055	2636.5	21.20	21.50	1.072	62.90	1.006	0.03	0.417	0.450
		LTE Band 41_UAT	20M	QPSK	1	0	Left Cheek	0mm	41055	2636.5	21.27	21.50	1.054	62.90	1.006	-0.07	0.279	0.296
		LTE Band 41_UAT	20M	QPSK	50	0	Left Cheek	0mm	41055	2636.5	21.20	21.50	1.072	62.90	1.006	0.11	0.257	0.277
		LTE Band 41_UAT	20M	QPSK	1	0	Left Tilted	0mm	41055	2636.5	21.27	21.50	1.054	62.90	1.006	0.15	0.475	0.504
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	41055	2636.5	21.20	21.50	1.072	62.90	1.006	0.16	0.512	0.552
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	39750	2506	21.10	21.50	1.096	62.90	1.006	0.06	0.352	0.388
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	40185	2549.5	21.18	21.50	1.076	62.90	1.006	0.13	0.376	0.407
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	40620	2593	20.98	21.50	1.127	62.90	1.006	0.19	0.413	0.468
		LTE Band 41_UAT	20M	QPSK	50	0	Left Tilted	0mm	41490	2680	20.78	21.50	1.180	62.90	1.006	0.07	0.600	0.712
		LTE Band 41_UAT	20M	QPSK	100	0	Left Tilted	0mm	40185	2549.5	21.14	21.50	1.086	62.90	1.006	-0.04	0.369	0.403
HPUE		LTE Band 41_UAT	20M	QPSK	1	0	Right Cheek	0mm	41490	2680	22.06	23.00	1.242	42.90	1.009	-0.18	0.902	1.130
WIFI off / WIFI on																		
Note	Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_LAT	20M	QPSK	1	0	Right Cheek	0mm	40185	2549.5	25.19	25.20	1.002	62.90	1.006	0.17	0.086	0.087
		LTE Band 41_LAT	20M	QPSK	50	0	Right Cheek	0mm	40185	2549.5	24.18	24.20	1.005	62.90	1.006	0.19	0.074	0.075
		LTE Band 41_LAT	20M	QPSK	1	0	Right Tilted	0mm	40185	2549.5	25.19	25.20	1.002	62.90	1.006	0.13	0.047	0.047
		LTE Band 41_LAT	20M	QPSK	50	0	Right Tilted	0mm	40185	2549.5	24.18	24.20	1.005	62.90	1.006	-0.09	0.044	0.044
		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	40185	2549.5	25.19	25.20	1.002	62.90	1.006	0.06	0.182	0.184
		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	39750	2506	24.86	25.20	1.081	62.90	1.006	0.09	0.263	0.286
		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	40620	2593	24.88	25.20	1.076	62.90	1.006	0.16	0.138	0.149
		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	41055	2636.5	25.18	25.20	1.005	62.90	1.006	0.15	0.135	0.136
		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	41490	2680	24.31	25.20	1.227	62.90	1.006	0.09	0.101	0.125
		LTE Band 41_LAT	20M	QPSK	50	0	Left Cheek	0mm	40185	2549.5	24.18	24.20	1.005	62.90	1.006	-0.07	0.145	0.147
		LTE Band 41_LAT	20M	QPSK	1	0	Left Tilted	0mm	40185	2549.5	25.19	25.20	1.002	62.90	1.006	0.14	0.123	0.124
		LTE Band 41_LAT	20M	QPSK	50	0	Left Tilted	0mm	40185	2549.5	24.18	24.20	1.005	62.90	1.006	0.17	0.097	0.098
HPUE		LTE Band 41_LAT	20M	QPSK	1	0	Left Cheek	0mm	39750	2506	26.12	26.50	1.091	42.90	1.009	0.12	0.217	0.239

**FCC SAR TEST REPORT**

Report No. : FA820502-02

<2.4GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	11	2462	14.22	14.50	1.067	100.00	1.000	-0.07	0.157	0.167	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	11	2462	14.22	14.50	1.067	100.00	1.000	-0.02	0.116	0.124	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	11	2462	14.22	14.50	1.067	100.00	1.000	-0.05	0.738	0.787	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	11	2462	14.22	14.50	1.067	100.00	1.000	-0.01	0.225	0.240	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	1	2412	18.50	18.50	1.000	100.00	1.000	-0.01	0.444	0.444	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	2412	18.50	18.50	1.000	100.00	1.000	-0.05	0.519	0.519	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	2412	18.50	18.50	1.000	100.00	1.000	0.02	1.070	1.070	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	6	2437	18.49	18.50	1.002	100.00	1.000	-0.02	0.968	0.970	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	11	2462	18.45	18.50	1.012	100.00	1.000	-0.12	0.922	0.933	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	2412	18.50	18.50	1.000	100.00	1.000	-0.01	1.290	1.290	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	6	2437	18.49	18.50	1.002	100.00	1.000	-0.02	1.050	1.052	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	11	2462	18.45	18.50	1.012	100.00	1.000	-0.12	0.899	0.909	
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4	6	2437	18.27	18.50	1.054	97.69	1.024	0.11	0.461	0.498	
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4	6	2437	18.27	18.50	1.054	97.69	1.024	-0.01	0.489	0.528	
	WLAN2.4GHz	802.11g 6Mbps	Left cheek	0mm	Ant 4	6	2437	18.27	18.50	1.054	97.69	1.024	-0.02	0.619	0.668	
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4	6	2437	18.27	18.50	1.054	97.69	1.024	-0.13	1.200	1.296	
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4	1	2412	17.78	18.00	1.052	97.69	1.024	0.02	0.809	0.871	
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4	11	2462	15.60	16.00	1.096	97.69	1.024	-0.05	0.971	1.090	
18	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	Ant 4	11	2462	16.76	18.50	1.493	100.00	1.000	0.04	0.285	0.425
					Ant 5			18.27	18.50	1.054	100.00	1.000	0.04	0.293	0.309	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	Ant 4	11	2462	16.76	18.50	1.493	100.00	1.000	-0.16	0.135	0.202
					Ant 5			18.27	18.50	1.054	100.00	1.000	-0.16	0.085	0.090	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	11	2462	16.76	18.50	1.493	100.00	1.000	0.06	0.582	0.869
					Ant 5			18.27	18.50	1.054	100.00	1.000	0.06	1.230	1.297	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	1	2412	16.75	18.50	1.496	100.00	1.000	0.07	0.658	0.985
					Ant 5			17.96	18.50	1.132	100.00	1.000	0.07	1.120	1.268	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	6	2437	16.60	18.50	1.549	100.00	1.000	-0.01	0.656	1.016
					Ant 5			17.82	18.50	1.169	100.00	1.000	-0.01	1.090	1.275	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	11	2462	16.76	18.50	1.493	100.00	1.000	0.16	0.714	1.066
					Ant 5			18.27	18.50	1.054	100.00	1.000	0.16	0.330	0.348	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	1	2412	16.75	18.50	1.496	100.00	1.000	0.03	0.768	1.149
					Ant 5			17.96	18.50	1.132	100.00	1.000	0.03	0.263	0.298	
WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	6	2437	16.60	18.50	1.549	100.00	1.000	-0.09	0.780	1.208	
				Ant 5			17.82	18.50	1.169	100.00	1.000	-0.09	0.325	0.380		
	WLAN2.4GHz	802.11g 6Mbps	Right Cheek	0mm	Ant 4+5	Ant 4	6	2437	18.22	18.50	1.067	97.73	1.023	0.12	0.139	0.152
					Ant 5			18.30	18.50	1.047	97.73	1.023	0.12	0.192	0.206	
	WLAN2.4GHz	802.11g 6Mbps	Right Tilted	0mm	Ant 4+5	Ant 4	6	2437	18.22	18.50	1.067	97.73	1.023	0.18	0.173	0.189
					Ant 5			18.30	18.50	1.047	97.73	1.023	0.18	0.084	0.090	
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	6	2437	18.22	18.50	1.067	97.73	1.023	0.01	0.878	0.958
					Ant 5			18.30	18.50	1.047	97.73	1.023	0.01	0.947	1.014	
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	1	2412	17.60	18.00	1.096	97.73	1.023	-0.03	0.471	0.528
					Ant 5			17.82	18.00	1.042	97.73	1.023	-0.03	0.828	0.883	
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	11	2462	15.43	16.00	1.140	97.73	1.023	-0.09	0.646	0.754
					Ant 5			15.62	16.00	1.091	97.73	1.023	-0.09	0.670	0.748	
	WLAN2.4GHz	802.11g 6Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	6	2437	18.22	18.50	1.067	97.73	1.023	0.07	0.344	0.375
					Ant 5			18.30	18.50	1.047	97.73	1.023	0.07	0.689	0.738	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 5	11	2462	8.26	8.50	1.057	100.00	1.000	-0.05	0.038	0.040	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 5	11	2462	8.26	8.50	1.057	100.00	1.000	-0.02	0.028	0.030	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 5	11	2462	8.26	8.50	1.057	100.00	1.000	0.09	0.178	0.188	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 5	11	2462	8.26	8.50	1.057	100.00	1.000	-0.05	0.054	0.057	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4	1	2412	13.40	13.50	1.023	100.00	1.000	-0.01	0.115	0.118	
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4	1	2412	13.40	13.50	1.023	100.00	1.000	-0.05	0.135	0.138	
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4	1	2412	13.40	13.50	1.023	100.00	1.000	0.02	0.278	0.284	
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4	1	2412	13.40	13.50	1.023	100.00	1.000	0.14	0.335	0.343	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 4+5	Ant 4	6	2437	12.22	14.00	1.507	100.00	1.000	0.04	0.098	0.148
									13.64	14.00	1.086	100.00	1.000	0.04	0.099	0.108
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 4+5	Ant 4	6	2437	12.22	14.00	1.507	100.00	1.000	-0.16	0.047	0.071
									13.64	14.00	1.086	100.00	1.000	-0.16	0.029	0.032
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	6	2437	12.22	14.00	1.507	100.00	1.000	0.07	0.227	0.342
									13.64	14.00	1.086	100.00	1.000	0.07	0.367	0.399
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	6	2437	12.22	14.00	1.507	100.00	1.000	0.16	0.247	0.372
									13.64	14.00	1.086	100.00	1.000	0.16	0.240	0.261

<5.2GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5	46	5230	14.33	15.00	1.167	95.93	1.042	0.04	0.226	0.275	
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5	46	5230	14.33	15.00	1.167	95.93	1.042	-0.03	0.184	0.224	
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	46	5230	14.33	15.00	1.167	95.93	1.042	0.05	0.989	1.202	
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	38	5190	12.46	12.50	1.010	97.73	1.023	0.18	0.975	1.007	
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	36	5180	14.32	15.00	1.169	95.93	1.042	0.11	0.976	1.189	
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5	46	5230	14.33	15.00	1.167	95.93	1.042	0.06	0.439	0.534	
19	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+5	Ant 4	46	5230	14.00	14.00	1.000	95.16	1.051	-0.02	0.532	0.559
						Ant 5	46	5230	13.96	14.50	1.132	95.16	1.051	-0.02	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+5	Ant 4	46	5230	14.00	14.00	1.000	95.16	1.051	-0.11	0.552	0.580
						Ant 5	46	5230	13.96	14.50	1.132	95.16	1.051	-0.11	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	Ant 4	46	5230	14.00	14.00	1.000	95.16	1.051	0.06	1.150	1.209
						Ant 5	46	5230	13.96	14.50	1.132	95.16	1.051	0.06	1.020	1.214
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	36	5180	14.00	14.00	1.000	97.73	1.023	-0.03	1.170	1.197
						Ant 5	36	5180	14.10	14.50	1.096	97.73	1.023	-0.03	1.040	1.167
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+5	Ant 4	46	5230	14.00	14.00	1.000	95.16	1.051	0.01	1.090	1.146
						Ant 5	46	5230	13.96	14.50	1.132	95.16	1.051	0.01	0.485	0.577
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	36	5180	14.00	14.00	1.000	97.73	1.023	0.02	0.685	0.701
						Ant 5	36	5180	14.10	14.50	1.096	97.73	1.023	0.02	0.468	0.525



FCC SAR TEST REPORT

Report No. : FA820502-02

<5.3GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5	54	5270	14.67	15.00	1.079	95.93	1.042	0.02	0.243	0.273	
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5	54	5270	14.67	15.00	1.079	95.93	1.042	-0.02	0.206	0.232	
20	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	54	5270	14.67	15.00	1.079	95.93	1.042	-0.05	1.190	1.338	
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	62	5310	14.03	14.50	1.114	95.93	1.042	0.12	1.020	1.184	
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	60	5300	14.62	15.00	1.091	97.73	1.023	0	1.070	1.195	
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5	54	5270	14.67	15.00	1.079	95.93	1.042	-0.07	0.462	0.519	
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4	54	5270	15.74	16.00	1.062	95.93	1.042	0.16	0.392	0.434	
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4	54	5270	15.74	16.00	1.062	95.93	1.042	0.12	0.466	0.516	
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	54	5270	15.74	16.00	1.062	95.93	1.042	0.05	0.654	0.724	
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	54	5270	15.74	16.00	1.062	95.93	1.042	0.09	0.718	0.794	
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	62	5310	13.33	14.50	1.309	95.93	1.042	-0.07	0.409	0.558	
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4+5	Ant 4	54	5270	14.00	14.00	1.000	95.16	1.051	-0.08	0.553	0.581
						Ant 5	54	5270	14.50	14.50	1.000	95.16	1.051	-0.08	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4+5	Ant 4	54	5270	14.00	14.00	1.000	95.16	1.051	-0.13	0.599	0.630
						Ant 5	54	5270	14.50	14.50	1.000	95.16	1.051	-0.13	0.001	0.001
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	Ant 4	54	5270	14.00	14.00	1.000	95.16	1.051	0.01	1.160	1.219
						Ant 5	54	5270	14.50	14.50	1.000	95.16	1.051	0.01	1.150	1.209
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	60	5300	14.00	14.00	1.000	97.73	1.023	0.08	1.050	1.074
						Ant 5	60	5300	14.22	14.50	1.067	97.73	1.023	0.08	1.060	1.157
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+5	Ant 4	54	5270	14.00	14.00	1.000	95.16	1.051	0	1.150	1.209
						Ant 5	54	5270	14.50	14.50	1.000	95.16	1.051	0	0.497	0.522
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 4+5	Ant 4	60	5300	14.00	14.00	1.000	97.73	1.023	0.07	0.700	0.716
						Ant 5	60	5300	14.22	14.50	1.067	97.73	1.023	0.07	0.505	0.551
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	58	5290	9.88	10.00	1.028	92.00	1.087	0.14	0.075	0.084	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	58	5290	9.88	10.00	1.028	92.00	1.087	0.13	0.058	0.065	
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	58	5290	9.88	10.00	1.028	92.00	1.087	0.02	0.353	0.394	
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	58	5290	9.88	10.00	1.028	92.00	1.087	-0.02	0.146	0.163	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	58	5290	8.32	8.50	1.042	91.63	1.091	-0.01	0.101	0.115	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	58	5290	8.32	8.50	1.042	91.63	1.091	0.04	0.115	0.131	
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	58	5290	8.32	8.50	1.042	91.63	1.091	0.05	0.154	0.175	
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	58	5290	8.32	8.50	1.042	91.63	1.091	0.15	0.175	0.199	
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	Ant 4	54	5270	9.10	9.50	1.096	91.20	1.096	0.01	0.134	0.161
						Ant 5	54	5270	9.52	10.00	1.117	91.20	1.096	0.03	0.062	0.076
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	Ant 4	54	5270	9.10	9.50	1.096	91.20	1.096	-0.19	0.156	0.187
						Ant 5	54	5270	9.52	10.00	1.117	91.20	1.096	-0.07	0.042	0.051
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	Ant 4	54	5270	9.10	9.50	1.096	91.20	1.096	-0.06	0.332	0.399
						Ant 5	54	5270	9.52	10.00	1.117	91.20	1.096	-0.06	0.262	0.321
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	Ant 4	54	5270	9.10	9.50	1.096	91.20	1.096	0.13	0.231	0.278
						Ant 5	54	5270	9.52	10.00	1.117	91.20	1.096	0.04	0.115	0.141



<5.5GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna		Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5		138	5690	14.40	15.00	1.148	91.63	1.091	-0.02	0.226	0.283
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5		138	5690	14.40	15.00	1.148	91.63	1.091	-0.04	0.182	0.228
21	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5		138	5690	14.40	15.00	1.148	91.63	1.091	-0.03	1.070	1.340
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5		106	5530	12.46	12.50	1.009	91.63	1.091	0.03	0.737	0.811
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5		122	5610	14.36	15.00	1.159	91.63	1.091	0.15	1.030	1.302
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5		102	5510	14.84	15.00	1.037	95.93	1.042	-0.11	1.040	1.124
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5		138	5690	14.40	15.00	1.148	91.63	1.091	0.07	0.451	0.565
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4		138	5690	16.44	16.50	1.014	91.63	1.091	-0.01	0.373	0.413
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4		138	5690	16.44	16.50	1.014	91.63	1.091	0.11	0.444	0.491
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4		138	5690	16.44	16.50	1.014	91.63	1.091	0.03	0.623	0.689
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4		138	5690	16.44	16.50	1.014	91.63	1.091	0.02	0.676	0.748
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4		106	5530	12.00	12.50	1.122	91.63	1.091	-0.1	0.241	0.295
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4		122	5610	16.28	16.50	1.052	91.63	1.091	-0.03	0.638	0.732
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	Ant 4	138	5690	12.70	13.00	1.072	91.20	1.096	0.04	0.189	0.222
						Ant 5	138	5690	14.22	15.00	1.197	91.20	1.096	-0.11	0.283	0.371
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	Ant 4	138	5690	12.70	13.00	1.072	91.20	1.096	0.09	0.179	0.210
						Ant 5	138	5690	14.22	15.00	1.197	91.20	1.096	0.05	0.225	0.295
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	Ant 4	138	5690	12.70	13.00	1.072	91.20	1.096	-0.02	0.674	0.792
						Ant 5	138	5690	14.22	15.00	1.197	91.20	1.096	-0.02	0.921	1.208
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	Ant 4	122	5610	12.15	13.00	1.216	91.20	1.096	0.05	0.665	0.886
						Ant 5	122	5610	14.52	15.00	1.117	91.20	1.096	0.05	0.955	1.169
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	Ant 4	110	5550	12.79	13.00	1.050	95.16	1.051	-0.13	1.030	1.136
						Ant 5	110	5550	14.69	15.00	1.074	95.16	1.051	-0.13	1.030	1.163
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	Ant 4	138	5690	12.70	13.00	1.072	91.20	1.096	0.02	0.579	0.680
						Ant 5	138	5690	14.22	15.00	1.197	91.20	1.096	0.07	0.601	0.788
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna		Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5		138	5690	9.51	10.00	1.119	92.00	1.087	-0.07	0.059	0.072
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5		138	5690	9.51	10.00	1.119	92.00	1.087	0	0.056	0.068
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5		138	5690	9.51	10.00	1.119	92.00	1.087	0.05	0.325	0.395
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5		138	5690	9.51	10.00	1.119	92.00	1.087	0.17	0.135	0.164
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4		138	5690	10.75	11.00	1.059	91.63	1.091	-0.05	0.088	0.102
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4		138	5690	10.75	11.00	1.059	91.63	1.091	0.06	0.106	0.122
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4		138	5690	10.75	11.00	1.059	91.63	1.091	0.13	0.138	0.159
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4		138	5690	10.75	11.00	1.059	91.63	1.091	0.19	0.159	0.184
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	Ant 4	138	5690	8.52	9.00	1.117	91.20	1.096	-0.17	0.052	0.064
						Ant 5			10.32	10.50	1.042	91.20	1.096	-0.17	0.071	0.081
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	Ant 4	138	5690	8.52	9.00	1.117	91.20	1.096	-0.06	0.063	0.077
						Ant 5			10.32	10.50	1.042	91.20	1.096	-0.17	0.065	0.074
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	Ant 5	138	5690	8.52	9.00	1.117	91.20	1.096	-0.07	0.191	0.234
						Ant 5			10.32	10.50	1.042	91.20	1.096	-0.07	0.339	0.387
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	Ant 4	138	5690	8.52	9.00	1.117	91.20	1.096	-0.02	0.102	0.125
						Ant 5			10.32	10.50	1.042	91.20	1.096	0.18	0.157	0.179



<5.8GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	155	5775	14.46	15.00	1.132	91.63	1.091	0.13	0.228	0.282
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	155	5775	14.46	15.00	1.132	91.63	1.091	0.12	0.188	0.232
22	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	155	5775	14.46	15.00	1.132	91.63	1.091	-0.08	1.080	1.334
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	151	5755	14.70	15.00	1.072	95.93	1.042	0.06	1.040	1.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	155	5775	14.46	15.00	1.132	91.63	1.091	0.01	0.421	0.520
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	155	5775	16.78	17.00	1.052	91.63	1.091	0.04	0.354	0.406
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	155	5775	16.78	17.00	1.052	91.63	1.091	0.05	0.424	0.487
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	155	5775	16.78	17.00	1.052	91.63	1.091	-0.13	0.588	0.675
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	155	5775	16.78	17.00	1.052	91.63	1.091	-0.01	0.646	0.741
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	155	5775	13.20	14.50	1.349	91.20	1.096	0.04	0.162	0.240
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	155	5775	15.65	16.00	1.084	91.20	1.096	0.13	0.301	0.358
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	155	5775	13.20	14.50	1.349	91.20	1.096	0.05	0.194	0.287
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	155	5775	15.65	16.00	1.084	91.20	1.096	0.12	0.241	0.286
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	155	5775	13.20	14.50	1.349	91.20	1.096	-0.01	0.685	1.013
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	155	5775	15.65	16.00	1.084	91.20	1.096	-0.01	1.020	1.212
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	151	5755	13.20	14.50	1.349	95.16	1.051	-0.05	0.654	0.927
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4+5	151	5755	15.73	16.00	1.064	95.16	1.051	-0.05	1.030	1.152
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	155	5775	13.20	14.50	1.349	91.20	1.096	0.09	0.549	0.812
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	155	5775	15.65	16.00	1.084	91.20	1.096	0.06	0.653	0.776
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	155	5775	9.53	10.00	1.114	92.00	1.087	-0.03	0.060	0.073
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	155	5775	9.53	10.00	1.114	92.00	1.087	0.05	0.053	0.064
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	155	5775	9.53	10.00	1.114	92.00	1.087	0.11	0.324	0.392
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	155	5775	9.53	10.00	1.114	92.00	1.087	0.02	0.134	0.162
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	155	5775	11.49	11.50	1.002	91.63	1.091	0.11	0.096	0.105
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	155	5775	11.49	11.50	1.002	91.63	1.091	-0.12	0.123	0.135
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	155	5775	11.49	11.50	1.002	91.63	1.091	-0.02	0.152	0.166
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	155	5775	11.49	11.50	1.002	91.63	1.091	0.03	0.171	0.187
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	155	5775	8.75	9.00	1.059	91.20	1.096	-0.12	0.056	0.065
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4+5	155	5775	11.30	11.50	1.047	91.20	1.096	0.04	0.096	0.110
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	155	5775	8.75	9.00	1.059	91.20	1.096	-0.17	0.072	0.084
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4+5	155	5775	11.30	11.50	1.047	91.20	1.096	0.08	0.093	0.107
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	155	5775	8.75	9.00	1.059	91.20	1.096	-0.09	0.237	0.275
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4+5	155	5775	11.30	11.50	1.047	91.20	1.096	-0.09	0.344	0.395
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	155	5775	8.75	9.00	1.119	91.20	1.087	0.06	0.159	0.164
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+5	155	5775	11.30	11.50	1.047	91.20	1.096	0.02	0.182	0.209

<Bluetooth SAR>

WWAN off, WWAN on, WIFI off, WIFI on, WWAN on and WIFI on															
Plot No.	Band	Mode	Test Position	Gap (mm)		Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.03	0.050	0.057
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.01	0.028	0.032
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.02	0.123	0.140
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 5	39	2441	11.26	11.50	1.057	76.60	1.087	-0.12	0.174	0.200
23	Bluetooth	1Mbps	Left Cheek	0mm	Ant 5	78	2480	10.92	11.50	1.143	76.60	1.087	0.06	0.172	0.214
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.12	0.056	0.064

13.2 Hotspot SAR

<GSM850>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	251	848.8	27.80	28.00	1.047	-0.02	0.486	0.509
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	251	848.8	27.80	28.00	1.047	-0.01	0.493	0.516
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.75	28.00	1.059	-0.04	0.480	0.508
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.74	28.00	1.062	0.02	0.465	0.494
	GSM850_UAT	GPRS (4 Tx slots)	Left Side	10mm	251	848.8	27.80	28.00	1.047	0.11	0.111	0.116
	GSM850_UAT	GPRS (4 Tx slots)	Right Side	10mm	251	848.8	27.80	28.00	1.047	-0.01	0.232	0.243
	GSM850_UAT	GPRS (4 Tx slots)	Top Side	10mm	251	848.8	27.80	28.00	1.047	0.18	0.331	0.347
	GSM850_LAT	GPRS (4 Tx slots)	Front	10mm	251	848.8	27.80	28.00	1.047	0.02	0.538	0.563
24	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	251	848.8	27.80	28.00	1.047	-0.07	0.551	0.577
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.75	28.00	1.059	-0.1	0.534	0.566
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.74	28.00	1.062	-0.01	0.542	0.575
	GSM850_LAT	GPRS (4 Tx slots)	Left Side	10mm	251	848.8	27.80	28.00	1.047	0.08	0.089	0.093
	GSM850_LAT	GPRS (4 Tx slots)	Right Side	10mm	251	848.8	27.80	28.00	1.047	-0.05	0.370	0.387
	GSM850_LAT	GPRS (4 Tx slots)	Bottom Side	10mm	251	848.8	27.80	28.00	1.047	-0.11	0.277	0.290

<GSM1900>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (3 Tx slots)	Front	10mm	512	1850.2	26.27	27.00	1.183	-0.05	0.454	0.537
	GSM1900_UAT	GPRS (3 Tx slots)	Back	10mm	512	1850.2	26.27	27.00	1.183	-0.05	0.623	0.737
	GSM1900_UAT	GPRS (3 Tx slots)	Left Side	10mm	512	1850.2	26.27	27.00	1.183	-0.06	0.179	0.212
	GSM1900_UAT	GPRS (3 Tx slots)	Right Side	10mm	512	1850.2	26.27	27.00	1.183	0.03	0.024	0.028
	GSM1900_UAT	GPRS (3 Tx slots)	Top Side	10mm	512	1850.2	26.27	27.00	1.183	-0.11	0.874	1.034
25	GSM1900_UAT	GPRS (3 Tx slots)	Top Side	10mm	661	1880	26.21	27.00	1.199	0	0.980	1.176
	GSM1900_UAT	GPRS (3 Tx slots)	Top Side	10mm	810	1909.8	26.12	27.00	1.225	-0.11	0.930	1.139
	GSM1900_LAT	GPRS (3 Tx slots)	Front	10mm	512	1850.2	26.27	27.00	1.183	-0.11	0.566	0.670
	GSM1900_LAT	GPRS (3 Tx slots)	Back	10mm	512	1850.2	26.27	27.00	1.183	-0.08	0.607	0.718
	GSM1900_LAT	GPRS (3 Tx slots)	Left Side	10mm	512	1850.2	26.27	27.00	1.183	-0.11	0.084	0.099
	GSM1900_LAT	GPRS (3 Tx slots)	Right Side	10mm	512	1850.2	26.27	27.00	1.183	-0.13	0.161	0.190
	GSM1900_LAT	GPRS (3 Tx slots)	Bottom Side	10mm	512	1850.2	26.27	27.00	1.183	-0.06	0.892	1.055
	GSM1900_LAT	GPRS (3 Tx slots)	Bottom Side	10mm	661	1880	26.21	27.00	1.199	-0.15	0.901	1.081
	GSM1900_LAT	GPRS (3 Tx slots)	Bottom Side	10mm	810	1909.8	26.12	27.00	1.225	-0.12	0.917	1.123

<WCDMA II>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	22.27	23.00	1.183	-0.11	0.562	0.665
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	22.27	23.00	1.183	-0.06	0.718	0.849
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9400	1880	22.11	23.00	1.227	-0.07	0.655	0.804
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9538	1907.6	22.01	23.00	1.256	-0.04	0.424	0.533
	WCDMA II_UAT	RMC 12.2Kbps	Left Side	10mm	9262	1852.4	22.27	23.00	1.183	0.03	0.126	0.149
	WCDMA II_UAT	RMC 12.2Kbps	Right Side	10mm	9262	1852.4	22.27	23.00	1.183	-0.05	0.021	0.025
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9262	1852.4	22.27	23.00	1.183	-0.02	0.942	1.114
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9400	1880	22.11	23.00	1.227	0.02	1.010	1.240
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	22.01	23.00	1.256	-0.02	0.681	0.855
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	22.27	23.50	1.327	0.05	0.493	0.654
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	22.27	23.50	1.327	0.01	0.552	0.733
	WCDMA II_LAT	RMC 12.2Kbps	Left Side	10mm	9262	1852.4	22.27	23.50	1.327	-0.03	0.137	0.182
	WCDMA II_LAT	RMC 12.2Kbps	Right Side	10mm	9262	1852.4	22.27	23.50	1.327	-0.08	0.095	0.126
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9262	1852.4	22.27	23.50	1.327	-0.04	0.815	1.082
26	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9400	1880	22.11	23.50	1.377	-0.01	0.933	1.285
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	22.01	23.50	1.409	0.03	0.879	1.239
Wifi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	22.27	22.50	1.054	-0.11	0.562	0.593
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	22.27	22.50	1.054	-0.06	0.718	0.757
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9400	1880	22.11	22.50	1.094	-0.07	0.655	0.717
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9538	1907.6	22.01	22.50	1.119	-0.04	0.424	0.475
	WCDMA II_UAT	RMC 12.2Kbps	Left Side	10mm	9262	1852.4	22.27	22.50	1.054	0.03	0.126	0.133
	WCDMA II_UAT	RMC 12.2Kbps	Right Side	10mm	9262	1852.4	22.27	22.50	1.054	-0.05	0.021	0.022
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9262	1852.4	22.27	22.50	1.054	-0.02	0.942	0.993
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9400	1880	22.11	22.50	1.094	0.02	1.010	1.105
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	10mm	9538	1907.6	22.01	22.50	1.119	-0.02	0.681	0.762
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	22.27	23.00	1.183	0.05	0.493	0.583
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	22.27	23.00	1.183	0.01	0.552	0.653
	WCDMA II_LAT	RMC 12.2Kbps	Left Side	10mm	9262	1852.4	22.27	23.00	1.183	-0.03	0.137	0.162
	WCDMA II_LAT	RMC 12.2Kbps	Right Side	10mm	9262	1852.4	22.27	23.00	1.183	-0.08	0.095	0.112
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9262	1852.4	22.27	23.00	1.183	-0.04	0.815	0.964
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9400	1880	22.11	23.00	1.227	-0.01	0.933	1.145
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	10mm	9538	1907.6	22.01	23.00	1.256	0.03	0.879	1.104

<WCDMA IV>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.33	24.00	1.167	-0.02	0.196	0.229
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.33	24.00	1.167	-0.05	0.409	0.477
	WCDMA IV_UAT	RMC 12.2Kbps	Left Side	10mm	1312	1712.4	23.33	24.00	1.167	-0.04	0.092	0.107
	WCDMA IV_UAT	RMC 12.2Kbps	Right Side	10mm	1312	1712.4	23.33	24.00	1.167	-0.05	0.021	0.025
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1312	1712.4	23.33	24.00	1.167	0.01	0.419	0.489
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1413	1732.6	23.23	24.00	1.194	0	0.371	0.443
	WCDMA IV_UAT	RMC 12.2Kbps	Top Side	10mm	1513	1752.6	23.25	24.00	1.189	-0.03	0.493	0.586
WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1513	1752.6	22.21	23.50	1.346	0.02	0.626	0.843
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1513	1752.6	22.21	23.50	1.346	-0.08	0.712	0.958
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	22.19	23.50	1.352	-0.12	0.708	0.957
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	22.15	23.50	1.365	-0.08	0.724	0.988
	WCDMA IV_LAT	RMC 12.2Kbps	Left Side	10mm	1513	1752.6	22.21	23.50	1.346	-0.03	0.129	0.174
	WCDMA IV_LAT	RMC 12.2Kbps	Right Side	10mm	1513	1752.6	22.21	23.50	1.346	-0.08	0.084	0.113
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	22.21	23.50	1.346	0.02	0.950	1.279
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	22.19	23.50	1.352	-0.03	0.884	1.195
27	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	22.15	23.50	1.365	-0.03	0.961	1.311
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1513	1752.6	22.21	23.00	1.199	0.02	0.626	0.751
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1513	1752.6	22.21	23.00	1.199	-0.08	0.712	0.854
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	22.19	23.00	1.205	-0.12	0.708	0.853
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	22.15	23.00	1.216	-0.08	0.724	0.881
	WCDMA IV_LAT	RMC 12.2Kbps	Left Side	10mm	1513	1752.6	22.21	23.00	1.199	-0.03	0.129	0.155
	WCDMA IV_LAT	RMC 12.2Kbps	Right Side	10mm	1513	1752.6	22.21	23.00	1.199	-0.08	0.084	0.101
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1513	1752.6	22.21	23.00	1.199	0.02	0.950	1.140
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1312	1712.4	22.19	23.00	1.205	-0.03	0.884	1.065
	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	10mm	1413	1732.6	22.15	23.00	1.216	-0.03	0.961	1.169

<WCDMA V>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_UAT	RMC 12.2Kbps	Front	10mm	4132	826.4	23.89	24.00	1.026	0.02	0.188	0.193
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4132	826.4	23.89	24.00	1.026	0.04	0.209	0.214
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4182	836.4	23.75	24.00	1.059	0.09	0.251	0.266
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4233	846.6	23.83	24.00	1.040	0.1	0.342	0.356
	WCDMA V_UAT	RMC 12.2Kbps	Left Side	10mm	4132	826.4	23.89	24.00	1.026	-0.04	0.028	0.029
	WCDMA V_UAT	RMC 12.2Kbps	Right Side	10mm	4132	826.4	23.89	24.00	1.026	0.03	0.085	0.087
	WCDMA V_UAT	RMC 12.2Kbps	Top Side	10mm	4132	826.4	23.89	24.00	1.026	0.04	0.105	0.108
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4132	826.4	23.89	24.00	1.026	-0.09	0.286	0.293
28	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4182	836.4	23.75	24.00	1.059	-0.03	0.343	0.363
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4233	846.6	23.83	24.00	1.040	0.03	0.332	0.345
	WCDMA V_LAT	RMC 12.2Kbps	Back	10mm	4132	826.4	23.89	24.00	1.026	0.01	0.266	0.273
	WCDMA V_LAT	RMC 12.2Kbps	Left Side	10mm	4132	826.4	23.89	24.00	1.026	0.04	0.143	0.147
	WCDMA V_LAT	RMC 12.2Kbps	Right Side	10mm	4132	826.4	23.89	24.00	1.026	0.06	0.232	0.238
	WCDMA V_LAT	RMC 12.2Kbps	Bottom Side	10mm	4132	826.4	23.89	24.00	1.026	0.07	0.117	0.120

<CDMA BC0>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	RTAP 153.6Kbps	Front	10mm	1013	824.7	24.45	25.00	1.135	0	0.249	0.283
	CDMA BC0_UAT	RTAP 153.6Kbps	Back	10mm	1013	824.7	24.45	25.00	1.135	0.06	0.470	0.533
	CDMA BC0_UAT	RTAP 153.6Kbps	Back	10mm	384	836.52	24.36	25.00	1.159	-0.15	0.267	0.309
29	CDMA BC0_UAT	RTAP 153.6Kbps	Back	10mm	777	848.31	24.36	25.00	1.159	-0.09	0.484	0.561
	CDMA BC0_UAT	RTAP 153.6Kbps	Left Side	10mm	1013	824.7	24.45	25.00	1.135	0.04	0.032	0.036
	CDMA BC0_UAT	RTAP 153.6Kbps	Right Side	10mm	1013	824.7	24.45	25.00	1.135	-0.02	0.172	0.195
	CDMA BC0_UAT	RTAP 153.6Kbps	Top Side	10mm	1013	824.7	24.45	25.00	1.135	0.1	0.146	0.166
	CDMA BC0_LAT	RTAP 153.6Kbps	Front	10mm	1013	824.7	24.45	25.00	1.135	-0.09	0.358	0.406
	CDMA BC0_LAT	RTAP 153.6Kbps	Back	10mm	1013	824.7	24.45	25.00	1.135	0	0.338	0.384
	CDMA BC0_LAT	RTAP 153.6Kbps	Left Side	10mm	1013	824.7	24.45	25.00	1.135	-0.04	0.309	0.351
	CDMA BC0_LAT	RTAP 153.6Kbps	Right Side	10mm	1013	824.7	24.45	25.00	1.135	0.01	0.410	0.465
	CDMA BC0_LAT	RTAP 153.6Kbps	Right Side	10mm	384	836.52	24.36	25.00	1.159	-0.03	0.409	0.474
	CDMA BC0_LAT	RTAP 153.6Kbps	Right Side	10mm	777	848.31	24.36	25.00	1.159	-0.01	0.397	0.460
	CDMA BC0_LAT	RTAP 153.6Kbps	Bottom Side	10mm	1013	824.7	24.45	25.00	1.135	-0.01	0.148	0.168



<CDMA BC1>

Wifi off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	RTAP 153.6Kbps	Front	10mm	600	1880	23.49	24.50	1.262	-0.07	0.555	0.700
	CDMA BC1_UAT	RTAP 153.6Kbps	Back	10mm	600	1880	23.49	24.50	1.262	0.01	0.604	0.762
	CDMA BC1_UAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	23.49	24.50	1.262	0.15	0.313	0.395
	CDMA BC1_UAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	23.49	24.50	1.262	-0.11	0.026	0.033
30	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	600	1880	23.49	24.50	1.262	0.09	1.020	1.287
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	25	1851.25	23.42	24.50	1.282	0.1	0.884	1.134
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	1175	1908.75	23.39	24.50	1.291	0.1	0.670	0.865
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	600	1880	23.49	24.00	1.125	-0.02	0.737	0.829
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	25	1851.25	23.42	24.00	1.143	-0.05	0.708	0.809
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	1175	1908.75	23.39	24.00	1.151	-0.03	0.628	0.723
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	600	1880	23.49	24.00	1.125	0.04	0.758	0.852
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	25	1851.25	23.42	24.00	1.143	-0.02	0.740	0.846
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	1175	1908.75	23.39	24.00	1.151	0.03	0.668	0.769
	CDMA BC1_LAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	23.49	24.00	1.125	0	0.092	0.103
	CDMA BC1_LAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	23.49	24.00	1.125	0.05	0.193	0.217
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	600	1880	23.49	24.00	1.125	0	1.100	1.237
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	25	1851.25	23.42	24.00	1.143	0.05	1.050	1.200
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	1175	1908.75	23.39	24.00	1.151	0.06	1.010	1.162
Wifi on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	RTAP 153.6Kbps	Front	10mm	600	1880	23.49	24.00	1.125	-0.07	0.555	0.624
	CDMA BC1_UAT	RTAP 153.6Kbps	Back	10mm	600	1880	23.49	24.00	1.125	0.01	0.604	0.679
	CDMA BC1_UAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	23.49	24.00	1.125	0.15	0.313	0.352
	CDMA BC1_UAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	23.49	24.00	1.125	-0.11	0.026	0.029
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	600	1880	23.49	24.00	1.125	0.09	1.020	1.147
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	25	1851.25	23.42	24.00	1.143	0.1	0.884	1.010
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	10mm	1175	1908.75	23.39	24.00	1.151	0.1	0.670	0.771
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	600	1880	23.49	23.50	1.002	-0.02	0.737	0.739
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	25	1851.25	23.42	23.50	1.019	-0.05	0.708	0.721
	CDMA BC1_LAT	RTAP 153.6Kbps	Front	10mm	1175	1908.75	23.39	23.50	1.026	-0.03	0.628	0.644
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	600	1880	23.49	23.50	1.002	0.04	0.758	0.760
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	25	1851.25	23.42	23.50	1.019	-0.02	0.740	0.754
	CDMA BC1_LAT	RTAP 153.6Kbps	Back	10mm	1175	1908.75	23.39	23.50	1.026	0.03	0.668	0.685
	CDMA BC1_LAT	RTAP 153.6Kbps	Left Side	10mm	600	1880	23.49	23.50	1.002	0	0.092	0.092
	CDMA BC1_LAT	RTAP 153.6Kbps	Right Side	10mm	600	1880	23.49	23.50	1.002	0.05	0.193	0.193
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	600	1880	23.49	23.50	1.002	0	1.100	1.103
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	25	1851.25	23.49	23.50	1.002	0.05	1.050	1.052
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	10mm	1175	1908.75	23.49	23.50	1.002	0.06	1.010	1.012



<CDMA BC10>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
31	CDMA BC10_UAT	RTAP 153.6Kbps	Front	10mm	580	820.5	24.35	25.00	1.161	0.08	0.424	0.492
	CDMA BC10_UAT	RTAP 153.6Kbps	Back	10mm	580	820.5	24.35	25.00	1.161	-0.01	0.185	0.215
	CDMA BC10_UAT	RTAP 153.6Kbps	Left Side	10mm	580	820.5	24.35	25.00	1.161	0.01	0.052	0.060
	CDMA BC10_UAT	RTAP 153.6Kbps	Right Side	10mm	580	820.5	24.35	25.00	1.161	0.02	0.071	0.082
	CDMA BC10_UAT	RTAP 153.6Kbps	Top Side	10mm	580	820.5	24.35	25.00	1.161	-0.05	0.216	0.251
	CDMA BC10_LAT	RTAP 153.6Kbps	Front	10mm	580	820.5	24.35	25.00	1.161	-0.04	0.365	0.424
	CDMA BC10_LAT	RTAP 153.6Kbps	Back	10mm	580	820.5	24.35	25.00	1.161	0.05	0.329	0.382
	CDMA BC10_LAT	RTAP 153.6Kbps	Left Side	10mm	580	820.5	24.35	25.00	1.161	0.01	0.280	0.325
	CDMA BC10_LAT	RTAP 153.6Kbps	Right Side	10mm	580	820.5	24.35	25.00	1.161	0.04	0.413	0.480
	CDMA BC10_LAT	RTAP 153.6Kbps	Bottom Side	10mm	580	820.5	24.35	25.00	1.161	-0.03	0.148	0.172

<FDD LTE B7>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_UAT	20M	QPSK	1	0	Front	10mm	21350	2560	23.36	24.00	1.159	-0.06	0.419	0.486
	LTE Band 7_UAT	20M	QPSK	50	0	Front	10mm	21350	2560	22.24	23.00	1.191	-0.09	0.329	0.392
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	21350	2560	23.36	24.00	1.159	0.01	0.721	0.835
32	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	20850	2510	23.01	24.00	1.256	0.06	0.777	0.976
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	21100	2535	23.13	24.00	1.222	0.05	0.785	0.959
	LTE Band 7_UAT	20M	QPSK	50	0	Back	10mm	21350	2560	22.24	23.00	1.191	-0.07	0.559	0.666
	LTE Band 7_UAT	20M	QPSK	100	0	Back	10mm	21350	2560	22.19	23.00	1.205	0.14	0.565	0.681
	LTE Band 7_UAT	20M	QPSK	1	0	Left Side	10mm	21350	2560	23.36	24.00	1.159	0.02	0.537	0.622
	LTE Band 7_UAT	20M	QPSK	50	0	Left Side	10mm	21350	2560	22.24	23.00	1.191	-0.02	0.430	0.512
	LTE Band 7_UAT	20M	QPSK	1	0	Right Side	10mm	21350	2560	23.36	24.00	1.159	0.12	0.028	0.032
	LTE Band 7_UAT	20M	QPSK	50	0	Right Side	10mm	21350	2560	22.24	23.00	1.191	-0.05	0.020	0.024
	LTE Band 7_UAT	20M	QPSK	1	0	Top Side	10mm	21350	2560	23.36	24.00	1.159	0	0.185	0.214
	LTE Band 7_UAT	20M	QPSK	50	0	Top Side	10mm	21350	2560	22.24	23.00	1.191	-0.06	0.144	0.172
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	21350	2560	23.36	24.00	1.159	-0.05	0.279	0.323
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	20850	2510	23.01	24.00	1.256	0.1	0.376	0.472
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	21100	2535	23.13	24.00	1.222	0.09	0.320	0.391
	LTE Band 7_LAT	20M	QPSK	50	0	Front	10mm	21350	2560	22.24	23.00	1.191	-0.05	0.211	0.251
	LTE Band 7_LAT	20M	QPSK	1	0	Back	10mm	21350	2560	23.36	24.00	1.159	0.14	0.250	0.290
	LTE Band 7_LAT	20M	QPSK	50	0	Back	10mm	21350	2560	22.24	23.00	1.191	-0.05	0.191	0.228
	LTE Band 7_LAT	20M	QPSK	1	0	Left Side	10mm	21350	2560	23.36	24.00	1.159	-0.02	0.153	0.177
	LTE Band 7_LAT	20M	QPSK	50	0	Left Side	10mm	21350	2560	22.24	23.00	1.191	-0.14	0.117	0.139
	LTE Band 7_LAT	20M	QPSK	1	0	Right Side	10mm	21350	2560	23.36	24.00	1.159	0.08	0.158	0.183
	LTE Band 7_LAT	20M	QPSK	50	0	Right Side	10mm	21350	2560	22.24	23.00	1.191	-0.02	0.120	0.143
	LTE Band 7_LAT	20M	QPSK	1	0	Bottom Side	10mm	21350	2560	23.36	24.00	1.159	-0.02	0.142	0.165
	LTE Band 7_LAT	20M	QPSK	50	0	Bottom Side	10mm	21350	2560	22.24	23.00	1.191	-0.15	0.108	0.129



<FDD LTE B12>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_UAT	10M	QPSK	1	0	Front	10mm	23095	707.5	23.64	24.50	1.219	0.05	0.219	0.267
	LTE Band 12_UAT	10M	QPSK	25	0	Front	10mm	23095	707.5	22.63	23.50	1.222	0.01	0.173	0.211
	LTE Band 12_UAT	10M	QPSK	1	0	Back	10mm	23095	707.5	23.64	24.50	1.219	-0.1	0.288	0.351
	LTE Band 12_UAT	10M	QPSK	25	0	Back	10mm	23095	707.5	22.63	23.50	1.222	-0.18	0.225	0.275
	LTE Band 12_UAT	10M	QPSK	1	0	Left Side	10mm	23095	707.5	23.64	24.50	1.219	0.19	0.139	0.169
	LTE Band 12_UAT	10M	QPSK	25	0	Left Side	10mm	23095	707.5	22.63	23.50	1.222	0.18	0.110	0.134
	LTE Band 12_UAT	10M	QPSK	1	0	Right Side	10mm	23095	707.5	23.64	24.50	1.219	-0.1	0.147	0.179
	LTE Band 12_UAT	10M	QPSK	25	0	Right Side	10mm	23095	707.5	22.63	23.50	1.222	-0.11	0.117	0.143
	LTE Band 12_UAT	10M	QPSK	1	0	Top Side	10mm	23095	707.5	23.64	24.50	1.219	-0.03	0.110	0.134
	LTE Band 12_UAT	10M	QPSK	25	0	Top Side	10mm	23095	707.5	22.63	23.50	1.222	0.02	0.088	0.108
	LTE Band 12_LAT	10M	QPSK	1	0	Front	10mm	23095	707.5	23.64	24.50	1.219	-0.07	0.236	0.288
	LTE Band 12_LAT	10M	QPSK	25	0	Front	10mm	23095	707.5	22.63	23.50	1.222	-0.03	0.200	0.244
33	LTE Band 12_LAT	10M	QPSK	1	0	Back	10mm	23095	707.5	23.64	24.50	1.219	-0.01	0.293	0.357
	LTE Band 12_LAT	10M	QPSK	25	0	Back	10mm	23095	707.5	22.63	23.50	1.222	0	0.232	0.283
	LTE Band 12_LAT	10M	QPSK	1	0	Left Side	10mm	23095	707.5	23.64	24.50	1.219	-0.18	0.273	0.333
	LTE Band 12_LAT	10M	QPSK	25	0	Left Side	10mm	23095	707.5	22.63	23.50	1.222	-0.13	0.220	0.269
	LTE Band 12_LAT	10M	QPSK	1	0	Right Side	10mm	23095	707.5	23.64	24.50	1.219	-0.14	0.252	0.307
	LTE Band 12_LAT	10M	QPSK	25	0	Right Side	10mm	23095	707.5	22.63	23.50	1.222	-0.1	0.205	0.250
	LTE Band 12_LAT	10M	QPSK	1	0	Bottom Side	10mm	23095	707.5	23.64	24.50	1.219	-0.09	0.066	0.080
	LTE Band 12_LAT	10M	QPSK	25	0	Bottom Side	10mm	23095	707.5	22.63	23.50	1.222	-0.09	0.051	0.062

<FDD LTE B13>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_UAT	10M	QPSK	1	0	Front	10mm	23230	782	23.60	24.50	1.230	0.02	0.283	0.348
	LTE Band 13_UAT	10M	QPSK	25	0	Front	10mm	23230	782	22.52	23.50	1.253	0	0.219	0.274
	LTE Band 13_UAT	10M	QPSK	1	0	Back	10mm	23230	782	23.60	24.50	1.230	-0.18	0.354	0.436
	LTE Band 13_UAT	10M	QPSK	25	0	Back	10mm	23230	782	22.52	23.50	1.253	-0.15	0.278	0.348
	LTE Band 13_UAT	10M	QPSK	1	0	Left Side	10mm	23230	782	23.60	24.50	1.230	0.1	0.076	0.094
	LTE Band 13_UAT	10M	QPSK	25	0	Left Side	10mm	23230	782	22.52	23.50	1.253	0.1	0.059	0.074
	LTE Band 13_UAT	10M	QPSK	1	0	Right Side	10mm	23230	782	23.60	24.50	1.230	-0.13	0.130	0.160
	LTE Band 13_UAT	10M	QPSK	25	0	Right Side	10mm	23230	782	22.52	23.50	1.253	-0.17	0.103	0.129
	LTE Band 13_UAT	10M	QPSK	1	0	Top Side	10mm	23230	782	23.60	24.50	1.230	-0.03	0.144	0.177
	LTE Band 13_UAT	10M	QPSK	25	0	Top Side	10mm	23230	782	22.52	23.50	1.253	-0.03	0.111	0.139
	LTE Band 13_LAT	10M	QPSK	1	0	Front	10mm	23230	782	23.60	24.50	1.230	0.01	0.329	0.405
	LTE Band 13_LAT	10M	QPSK	25	0	Front	10mm	23230	782	22.52	23.50	1.253	0.03	0.262	0.328
	LTE Band 13_LAT	10M	QPSK	1	0	Back	10mm	23230	782	23.60	24.50	1.230	0.03	0.305	0.375
	LTE Band 13_LAT	10M	QPSK	25	0	Back	10mm	23230	782	22.52	23.50	1.253	0.02	0.245	0.307
	LTE Band 13_LAT	10M	QPSK	1	0	Left Side	10mm	23230	782	23.60	24.50	1.230	-0.1	0.275	0.338
	LTE Band 13_LAT	10M	QPSK	25	0	Left Side	10mm	23230	782	22.52	23.50	1.253	-0.13	0.218	0.273
34	LTE Band 13_LAT	10M	QPSK	1	0	Right Side	10mm	23230	782	23.60	24.50	1.230	-0.14	0.381	0.469
	LTE Band 13_LAT	10M	QPSK	25	0	Right Side	10mm	23230	782	22.52	23.50	1.253	-0.12	0.307	0.385
	LTE Band 13_LAT	10M	QPSK	1	0	Bottom Side	10mm	23230	782	23.60	24.50	1.230	-0.15	0.088	0.108
	LTE Band 13_LAT	10M	QPSK	25	0	Bottom Side	10mm	23230	782	22.52	23.50	1.253	-0.14	0.071	0.089



<FDD LTE B25>

WIFI off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26590	1905	21.78	23.00	1.324	-0.1	0.496	0.657
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	26590	1905	21.58	23.00	1.387	-0.06	0.474	0.657
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26590	1905	21.78	23.00	1.324	-0.01	0.551	0.730
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	26590	1905	21.58	23.00	1.387	-0.02	0.536	0.743
	LTE Band 25_UAT	20M	QPSK	1	0	Left Side	10mm	26590	1905	21.78	23.00	1.324	-0.01	0.250	0.331
	LTE Band 25_UAT	20M	QPSK	50	0	Left Side	10mm	26590	1905	21.58	23.00	1.387	0.03	0.255	0.354
	LTE Band 25_UAT	20M	QPSK	1	0	Right Side	10mm	26590	1905	21.78	23.00	1.324	-0.02	0.009	0.012
	LTE Band 25_UAT	20M	QPSK	50	0	Right Side	10mm	26590	1905	21.58	23.00	1.387	-0.05	0.017	0.024
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26590	1905	21.78	23.00	1.324	-0.02	0.951	1.259
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26140	1860	21.69	23.00	1.352	0.12	0.949	1.283
35	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26340	1880	21.58	23.00	1.387	0.03	0.968	1.342
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26590	1905	21.58	23.00	1.387	0.14	0.935	1.297
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26140	1860	21.56	23.00	1.393	0.11	0.940	1.310
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26340	1880	21.55	23.00	1.396	-0.08	0.923	1.289
	LTE Band 25_UAT	20M	QPSK	100	0	Top Side	10mm	26590	1905	21.56	23.00	1.393	0	0.906	1.262
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26590	1905	22.78	23.50	1.180	-0.04	0.643	0.759
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26590	1905	22.57	23.50	1.239	-0.02	0.623	0.772
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26590	1905	22.78	23.50	1.180	0.02	0.683	0.806
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26590	1905	22.57	23.50	1.239	0	0.666	0.825
	LTE Band 25_LAT	20M	QPSK	1	0	Left Side	10mm	26590	1905	22.78	23.50	1.180	-0.03	0.057	0.067
	LTE Band 25_LAT	20M	QPSK	50	0	Left Side	10mm	26590	1905	22.57	23.50	1.239	0.12	0.053	0.066
	LTE Band 25_LAT	20M	QPSK	1	0	Right Side	10mm	26590	1905	22.78	23.50	1.180	0.07	0.167	0.197
	LTE Band 25_LAT	20M	QPSK	50	0	Right Side	10mm	26590	1905	22.57	23.50	1.239	0.04	0.162	0.201
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26590	1905	22.78	23.50	1.180	0.01	1.050	1.239
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26140	1860	22.63	23.50	1.222	0.09	0.984	1.202
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26340	1880	22.54	23.50	1.247	0.03	1.030	1.285
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26590	1905	22.57	23.50	1.239	0.02	1.030	1.276
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26140	1860	22.56	23.50	1.242	0.05	1.010	1.254
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26340	1880	22.50	23.50	1.259	0.06	1.060	1.334
	LTE Band 25_LAT	20M	QPSK	100	0	Bottom Side	10mm	26590	1905	22.53	23.50	1.250	0.04	1.010	1.263
WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26590	1905	21.78	22.50	1.180	-0.1	0.496	0.585
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	26590	1905	21.58	22.50	1.236	-0.06	0.474	0.586
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26590	1905	21.78	22.50	1.180	-0.01	0.551	0.650
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	26590	1905	21.58	22.50	1.236	-0.02	0.536	0.662
	LTE Band 25_UAT	20M	QPSK	1	0	Left Side	10mm	26590	1905	21.78	22.50	1.180	-0.01	0.250	0.295
	LTE Band 25_UAT	20M	QPSK	50	0	Left Side	10mm	26590	1905	21.58	22.50	1.236	0.03	0.255	0.315
	LTE Band 25_UAT	20M	QPSK	1	0	Right Side	10mm	26590	1905	21.78	22.50	1.180	-0.02	0.009	0.010
	LTE Band 25_UAT	20M	QPSK	50	0	Right Side	10mm	26590	1905	21.58	22.50	1.236	-0.05	0.017	0.021
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26590	1905	21.78	22.50	1.180	-0.02	0.951	1.122
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26140	1860	21.69	22.50	1.205	0.12	0.949	1.144
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	10mm	26340	1880	21.58	22.50	1.236	0.03	0.968	1.196
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26590	1905	21.58	22.50	1.236	0.14	0.935	1.156
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26140	1860	21.56	22.50	1.242	0.11	0.940	1.167
	LTE Band 25_UAT	20M	QPSK	50	0	Top Side	10mm	26340	1880	21.55	22.50	1.245	-0.08	0.923	1.149
	LTE Band 25_UAT	20M	QPSK	100	0	Top Side	10mm	26590	1905	21.56	22.50	1.242	0	0.906	1.125
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26590	1905	22.78	23.00	1.052	-0.04	0.643	0.676
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26590	1905	22.57	23.00	1.104	-0.02	0.623	0.688
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26590	1905	22.78	23.00	1.052	0.02	0.683	0.718
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26590	1905	22.57	23.00	1.104	0	0.666	0.735
	LTE Band 25_LAT	20M	QPSK	1	0	Left Side	10mm	26590	1905	22.78	23.00	1.052	-0.03	0.057	0.060
	LTE Band 25_LAT	20M	QPSK	50	0	Left Side	10mm	26590	1905	22.57	23.00	1.104	0.12	0.053	0.059
	LTE Band 25_LAT	20M	QPSK	1	0	Right Side	10mm	26590	1905	22.78	23.00	1.052	0.07	0.167	0.176
	LTE Band 25_LAT	20M	QPSK	50	0	Right Side	10mm	26590	1905	22.57	23.00	1.104	0.04	0.162	0.179
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26590	1905	22.78	23.00	1.052	0.01	1.050	1.105
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26140	1860	22.63	23.00	1.089	0.09	0.984	1.072
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	10mm	26340	1880	22.54	23.00	1.112	0.03	1.030	1.145
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26590	1905	22.57	23.00	1.104	0.02	1.030	1.137
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26140	1860	22.56	23.00	1.107	0.05	1.010	1.118
	LTE Band 25_LAT	20M	QPSK	50	0	Bottom Side	10mm	26340	1880	22.50	23.00	1.122	0.06	1.060	1.189
	LTE Band 25_LAT	20M	QPSK	100	0	Bottom Side	10mm	26590	1905	22.53	23.00	1.114	0.04	1.010	1.125



<FDD LTE B26>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
36	LTE Band 26_UAT	15M	QPSK	1	0	Front	10mm	26865	831.5	24.24	24.50	1.062	-0.03	0.337	0.358
	LTE Band 26_UAT	15M	QPSK	36	0	Front	10mm	26865	831.5	22.95	23.50	1.135	-0.01	0.255	0.289
	LTE Band 26_UAT	15M	QPSK	1	0	Back	10mm	26865	831.5	24.24	24.50	1.062	0.01	0.361	0.383
	LTE Band 26_UAT	15M	QPSK	36	0	Back	10mm	26865	831.5	22.95	23.50	1.135	0.02	0.268	0.304
	LTE Band 26_UAT	15M	QPSK	1	0	Left Side	10mm	26865	831.5	24.24	24.50	1.062	-0.08	0.060	0.064
	LTE Band 26_UAT	15M	QPSK	36	0	Left Side	10mm	26865	831.5	22.95	23.50	1.135	0.11	0.049	0.056
	LTE Band 26_UAT	15M	QPSK	1	0	Right Side	10mm	26865	831.5	24.24	24.50	1.062	-0.04	0.143	0.152
	LTE Band 26_UAT	15M	QPSK	36	0	Right Side	10mm	26865	831.5	22.95	23.50	1.135	-0.08	0.106	0.120
	LTE Band 26_UAT	15M	QPSK	1	0	Top Side	10mm	26865	831.5	24.24	24.50	1.062	-0.04	0.197	0.209
	LTE Band 26_UAT	15M	QPSK	36	0	Top Side	10mm	26865	831.5	22.95	23.50	1.135	-0.02	0.158	0.179
	LTE Band 26_LAT	15M	QPSK	1	0	Front	10mm	26865	831.5	24.24	24.50	1.062	-0.05	0.325	0.345
	LTE Band 26_LAT	15M	QPSK	36	0	Front	10mm	26865	831.5	22.95	23.50	1.135	-0.06	0.246	0.279
	LTE Band 26_LAT	15M	QPSK	1	0	Back	10mm	26865	831.5	24.24	24.50	1.062	-0.04	0.329	0.349
	LTE Band 26_LAT	15M	QPSK	36	0	Back	10mm	26865	831.5	22.95	23.50	1.135	0.03	0.249	0.283
	LTE Band 26_LAT	15M	QPSK	1	0	Left Side	10mm	26865	831.5	24.24	24.50	1.062	0.03	0.253	0.269
	LTE Band 26_LAT	15M	QPSK	36	0	Left Side	10mm	26865	831.5	22.95	23.50	1.135	0.07	0.188	0.213
	LTE Band 26_LAT	15M	QPSK	1	0	Right Side	10mm	26865	831.5	24.24	24.50	1.062	-0.01	0.354	0.376
	LTE Band 26_LAT	15M	QPSK	36	0	Right Side	10mm	26865	831.5	22.95	23.50	1.135	0.01	0.258	0.293
	LTE Band 26_LAT	15M	QPSK	1	0	Bottom Side	10mm	26865	831.5	24.24	24.50	1.062	0.03	0.132	0.140
	LTE Band 26_LAT	15M	QPSK	36	0	Bottom Side	10mm	26865	831.5	22.95	23.50	1.135	0.04	0.101	0.115

<FDD LTE B30>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
37	LTE Band 30_UAT	10M	QPSK	1	0	Front	10mm	27710	2310	23.19	24.00	1.205	0.19	0.290	0.349
	LTE Band 30_UAT	10M	QPSK	25	0	Front	10mm	27710	2310	22.19	23.00	1.205	0.19	0.239	0.288
	LTE Band 30_UAT	10M	QPSK	1	0	Back	10mm	27710	2310	23.19	24.00	1.205	0.03	0.465	0.560
	LTE Band 30_UAT	10M	QPSK	25	0	Back	10mm	27710	2310	22.19	23.00	1.205	-0.02	0.391	0.471
	LTE Band 30_UAT	10M	QPSK	1	0	Left Side	10mm	27710	2310	23.19	24.00	1.205	0.16	0.468	0.564
	LTE Band 30_UAT	10M	QPSK	25	0	Left Side	10mm	27710	2310	22.19	23.00	1.205	0.15	0.385	0.464
	LTE Band 30_UAT	10M	QPSK	1	0	Right Side	10mm	27710	2310	23.19	24.00	1.205	0.16	0.039	0.047
	LTE Band 30_UAT	10M	QPSK	25	0	Right Side	10mm	27710	2310	22.19	23.00	1.205	0.17	0.031	0.037
	LTE Band 30_UAT	10M	QPSK	1	0	Top Side	10mm	27710	2310	23.19	24.00	1.205	-0.09	0.193	0.233
	LTE Band 30_UAT	10M	QPSK	25	0	Top Side	10mm	27710	2310	22.19	23.00	1.205	-0.08	0.155	0.187
	LTE Band 30_LAT	10M	QPSK	1	0	Front	10mm	27710	2310	23.19	24.00	1.205	-0.11	0.357	0.430
	LTE Band 30_LAT	10M	QPSK	25	0	Front	10mm	27710	2310	22.19	23.00	1.205	-0.1	0.285	0.343
	LTE Band 30_LAT	10M	QPSK	1	0	Back	10mm	27710	2310	23.19	24.00	1.205	0.19	0.301	0.363
	LTE Band 30_LAT	10M	QPSK	25	0	Back	10mm	27710	2310	22.19	23.00	1.205	0.13	0.239	0.288
	LTE Band 30_LAT	10M	QPSK	1	0	Left Side	10mm	27710	2310	23.19	24.00	1.205	0.11	0.119	0.143
	LTE Band 30_LAT	10M	QPSK	25	0	Left Side	10mm	27710	2310	22.19	23.00	1.205	0.07	0.100	0.121
	LTE Band 30_LAT	10M	QPSK	1	0	Right Side	10mm	27710	2310	23.19	24.00	1.205	-0.1	0.108	0.130
	LTE Band 30_LAT	10M	QPSK	25	0	Right Side	10mm	27710	2310	22.19	23.00	1.205	-0.08	0.085	0.102
	LTE Band 30_LAT	10M	QPSK	1	0	Bottom Side	10mm	27710	2310	23.19	24.00	1.205	-0.1	0.169	0.204
	LTE Band 30_LAT	10M	QPSK	25	0	Bottom Side	10mm	27710	2310	22.19	23.00	1.205	-0.12	0.137	0.165



<FDD LTE B66>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	132072	1720	23.23	24.00	1.194	-0.01	0.255	0.304
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.23	23.00	1.194	0.17	0.170	0.203
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132072	1720	23.23	24.00	1.194	-0.01	0.496	0.592
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132322	1745	23.03	24.00	1.250	-0.03	0.563	0.704
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132572	1770	23.01	24.00	1.256	-0.01	0.605	0.760
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.23	23.00	1.194	0.04	0.388	0.463
	LTE Band 66_UAT	20M	QPSK	1	0	Left Side	10mm	132072	1720	23.23	24.00	1.194	0	0.112	0.134
	LTE Band 66_UAT	20M	QPSK	50	0	Left Side	10mm	132072	1720	22.23	23.00	1.194	-0.04	0.087	0.104
	LTE Band 66_UAT	20M	QPSK	1	0	Right Side	10mm	132072	1720	23.23	24.00	1.194	-0.05	0.019	0.023
	LTE Band 66_UAT	20M	QPSK	50	0	Right Side	10mm	132072	1720	22.23	23.00	1.194	-0.05	0.014	0.017
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132072	1720	23.23	24.00	1.194	-0.03	0.409	0.488
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132322	1745	23.03	24.00	1.250	-0.03	0.475	0.594
	LTE Band 66_UAT	20M	QPSK	1	0	Top Side	10mm	132572	1770	23.01	24.00	1.256	0.01	0.575	0.722
	LTE Band 66_UAT	20M	QPSK	50	0	Top Side	10mm	132072	1720	22.23	23.00	1.194	0.13	0.351	0.419
WIFI off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132072	1720	22.27	23.00	1.183	-0.01	0.610	0.722
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.07	23.00	1.239	-0.12	0.595	0.737
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132072	1720	22.27	23.00	1.183	0.01	0.746	0.883
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132322	1745	22.06	23.00	1.242	-0.19	0.734	0.911
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132572	1770	22.03	23.00	1.250	-0.02	0.753	0.941
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.07	23.00	1.239	0.06	0.713	0.883
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132322	1745	22.05	23.00	1.245	-0.08	0.732	0.911
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132572	1770	22.01	23.00	1.256	0.03	0.754	0.947
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	132072	1720	22.02	23.00	1.253	-0.07	0.744	0.932
	LTE Band 66_LAT	20M	QPSK	1	0	Left Side	10mm	132072	1720	22.27	23.00	1.183	0.11	0.132	0.156
	LTE Band 66_LAT	20M	QPSK	50	0	Left Side	10mm	132072	1720	22.07	23.00	1.239	-0.03	0.125	0.155
	LTE Band 66_LAT	20M	QPSK	1	0	Right Side	10mm	132072	1720	22.27	23.00	1.183	-0.08	0.081	0.096
	LTE Band 66_LAT	20M	QPSK	50	0	Right Side	10mm	132072	1720	22.07	23.00	1.239	0.12	0.077	0.095
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	22.27	23.00	1.183	0.01	0.951	1.125
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	22.06	23.00	1.242	-0.03	1.000	1.242
38	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	22.03	23.00	1.250	-0.12	1.070	1.338
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132072	1720	22.07	23.00	1.239	0.07	0.976	1.209
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132322	1745	22.05	23.00	1.245	-0.06	0.949	1.181
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132572	1770	22.01	23.00	1.256	0.11	1.000	1.256
	LTE Band 66_LAT	20M	QPSK	100	0	Bottom Side	10mm	132072	1720	22.02	23.00	1.253	0.01	0.965	1.209
WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132072	1720	22.27	22.50	1.054	-0.01	0.610	0.643
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.07	22.50	1.104	-0.12	0.595	0.657
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132072	1720	22.27	22.50	1.054	0.01	0.746	0.787
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132322	1745	22.06	22.50	1.107	-0.19	0.734	0.812
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132572	1770	22.03	22.50	1.114	-0.02	0.753	0.839
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.07	22.50	1.104	0.06	0.713	0.787
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132322	1745	22.05	22.50	1.109	-0.08	0.732	0.812
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132572	1770	22.01	22.50	1.119	0.03	0.754	0.844
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	132072	1720	22.02	22.50	1.117	-0.07	0.744	0.831
	LTE Band 66_LAT	20M	QPSK	1	0	Left Side	10mm	132072	1720	22.27	22.50	1.054	0.11	0.132	0.139
	LTE Band 66_LAT	20M	QPSK	50	0	Left Side	10mm	132072	1720	22.07	22.50	1.104	-0.03	0.125	0.138
	LTE Band 66_LAT	20M	QPSK	1	0	Right Side	10mm	132072	1720	22.27	22.50	1.054	-0.08	0.081	0.085
	LTE Band 66_LAT	20M	QPSK	50	0	Right Side	10mm	132072	1720	22.07	22.50	1.104	0.12	0.077	0.085
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132072	1720	22.27	22.50	1.054	0.01	0.951	1.003
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132322	1745	22.06	22.50	1.107	-0.03	1.000	1.107
	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	10mm	132572	1770	22.03	22.50	1.114	-0.12	1.070	1.192
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132072	1720	22.07	22.50	1.104	0.07	0.976	1.078
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132322	1745	22.05	22.50	1.109	-0.06	0.949	1.053
	LTE Band 66_LAT	20M	QPSK	50	0	Bottom Side	10mm	132572	1770	22.01	22.50	1.119	0.11	1.000	1.119
	LTE Band 66_LAT	20M	QPSK	100	0	Bottom Side	10mm	132072	1720	22.02	22.50	1.117	0.01	0.965	1.078



<FDD LTE B71>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_UAT	20M	QPSK	1	0	Front	10mm	133322	683	24.18	24.50	1.076	0.03	0.262	0.282
	LTE Band 71_UAT	20M	QPSK	50	0	Front	10mm	133322	683	22.40	23.50	1.288	0.03	0.174	0.224
	LTE Band 71_UAT	20M	QPSK	1	0	Back	10mm	133322	683	24.18	24.50	1.076	0.01	0.301	0.324
	LTE Band 71_UAT	20M	QPSK	50	0	Back	10mm	133322	683	22.40	23.50	1.288	-0.01	0.199	0.256
	LTE Band 71_UAT	20M	QPSK	1	0	Left Side	10mm	133322	683	24.18	24.50	1.076	-0.03	0.172	0.185
	LTE Band 71_UAT	20M	QPSK	50	0	Left Side	10mm	133322	683	22.40	23.50	1.288	0.02	0.112	0.144
	LTE Band 71_UAT	20M	QPSK	1	0	Right Side	10mm	133322	683	24.18	24.50	1.076	0	0.150	0.161
	LTE Band 71_UAT	20M	QPSK	50	0	Right Side	10mm	133322	683	22.40	23.50	1.288	0.02	0.101	0.130
	LTE Band 71_UAT	20M	QPSK	1	0	Top Side	10mm	133322	683	24.18	24.50	1.076	-0.15	0.115	0.124
	LTE Band 71_UAT	20M	QPSK	50	0	Top Side	10mm	133322	683	22.40	23.50	1.288	-0.07	0.079	0.102
	LTE Band 71_LAT	20M	QPSK	1	0	Front	10mm	133322	683	24.18	24.50	1.076	0	0.292	0.314
	LTE Band 71_LAT	20M	QPSK	50	0	Front	10mm	133322	683	22.40	23.50	1.288	0.01	0.193	0.249
	LTE Band 71_LAT	20M	QPSK	1	0	Back	10mm	133322	683	24.18	24.50	1.076	0	0.277	0.298
	LTE Band 71_LAT	20M	QPSK	50	0	Back	10mm	133322	683	22.40	23.50	1.288	0	0.182	0.234
39	LTE Band 71_LAT	20M	QPSK	1	0	Left Side	10mm	133322	683	24.18	24.50	1.076	0.01	0.315	0.339
	LTE Band 71_LAT	20M	QPSK	50	0	Left Side	10mm	133322	683	22.40	23.50	1.288	0.03	0.214	0.276
	LTE Band 71_LAT	20M	QPSK	1	0	Right Side	10mm	133322	683	24.18	24.50	1.076	-0.04	0.292	0.314
	LTE Band 71_LAT	20M	QPSK	50	0	Right Side	10mm	133322	683	22.40	23.50	1.288	-0.01	0.201	0.259
	LTE Band 71_LAT	20M	QPSK	1	0	Bottom Side	10mm	133322	683	24.18	24.50	1.076	0.07	0.080	0.086
	LTE Band 71_LAT	20M	QPSK	50	0	Bottom Side	10mm	133322	683	22.40	23.50	1.288	0.05	0.053	0.068

<TDD LTE B41>

WIFI off / WIFI on																		
Note	Plot No	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_UAT	20M	QPSK	1	0	Front	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.06	0.351	0.354
		LTE Band 41_UAT	20M	QPSK	50	0	Front	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.07	0.269	0.272
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	-0.02	0.561	0.566
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	39750	2506	24.86	25.20	1.081	62.9	1.006	-0.02	0.498	0.542
	40	LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	40620	2593	24.88	25.20	1.076	62.9	1.006	0.01	0.538	0.583
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	41055	2636.5	25.18	25.20	1.005	62.9	1.006	-0.06	0.507	0.512
		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	41490	2680	24.31	25.20	1.227	62.9	1.006	-0.08	0.418	0.516
		LTE Band 41_UAT	20M	QPSK	50	0	Back	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.09	0.434	0.439
		LTE Band 41_UAT	20M	QPSK	100	0	Back	10mm	40185	2549.5	24.19	24.20	1.002	62.9	1.006	0.04	0.407	0.410
		LTE Band 41_UAT	20M	QPSK	1	0	Left Side	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.03	0.454	0.458
		LTE Band 41_UAT	20M	QPSK	50	0	Left Side	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.02	0.356	0.360
		LTE Band 41_UAT	20M	QPSK	1	0	Right Side	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.18	0.032	0.032
		LTE Band 41_UAT	20M	QPSK	50	0	Right Side	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.08	0.023	0.023
		LTE Band 41_UAT	20M	QPSK	1	0	Top Side	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.04	0.195	0.197
		LTE Band 41_UAT	20M	QPSK	50	0	Top Side	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.02	0.127	0.128
HPUE		LTE Band 41_UAT	20M	QPSK	1	0	Back	10mm	40620	2593	26.08	26.50	1.102	42.90	1.009	-0.05	0.447	0.497
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	-0.03	0.277	0.279
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	39750	2506	24.86	25.20	1.081	62.9	1.006	-0.05	0.296	0.322
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	40620	2593	24.88	25.20	1.076	62.9	1.006	-0.06	0.244	0.264
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	41055	2636.5	25.18	25.20	1.005	62.9	1.006	0.05	0.263	0.266
		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	41490	2680	24.31	25.20	1.227	62.9	1.006	0.07	0.202	0.249
		LTE Band 41_LAT	20M	QPSK	50	0	Front	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.1	0.212	0.214
		LTE Band 41_LAT	20M	QPSK	1	0	Back	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.06	0.260	0.262
		LTE Band 41_LAT	20M	QPSK	50	0	Back	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.08	0.199	0.201
		LTE Band 41_LAT	20M	QPSK	1	0	Left Side	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	-0.07	0.129	0.130
		LTE Band 41_LAT	20M	QPSK	50	0	Left Side	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.02	0.101	0.102
		LTE Band 41_LAT	20M	QPSK	1	0	Right Side	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	-0.01	0.144	0.145
		LTE Band 41_LAT	20M	QPSK	50	0	Right Side	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.06	0.110	0.111
		LTE Band 41_LAT	20M	QPSK	1	0	Bottom Side	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.01	0.145	0.146
		LTE Band 41_LAT	20M	QPSK	50	0	Bottom Side	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.18	0.110	0.111
HPUE		LTE Band 41_LAT	20M	QPSK	1	0	Front	10mm	39750	2506	26.12	26.50	1.091	42.90	1.009	-0.1	0.254	0.280

<2.4GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	-0.06	0.212	0.236
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	-0.16	0.279	0.310
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	-0.12	0.284	0.343
41	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	11	2462	19.53	20.00	1.114	100.00	1.000	-0.11	0.344	0.383
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	0.01	0.127	0.141
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	0	0.086	0.095
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	0	0.188	0.198
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	-0.05	0.259	0.273
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	-0.01	0.052	0.055
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	0.06	0.288	0.304
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	-0.06	0.212	0.256
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	-0.12	0.244	0.295
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	-0.16	0.279	0.310
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	11	2462	19.53	20.00	1.114	100.00	1.000	-0.11	0.344	0.383
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	0.01	0.127	0.153
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	0	0.086	0.104
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	0	0.188	0.207
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	-0.05	0.259	0.285
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	-0.01	0.052	0.057
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	0.1	0.307	0.338
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	0.06	0.288	0.304
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4	11	2462	19.74	20.00	1.062	100.00	1.000	0.13	0.240	0.255
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4+5	6	2437	19.55	20.00	1.109	100.00	1.000	0.11	0.229	0.254
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	6	2437	19.78	20.00	1.052	100.00	1.000	0.11	0.212	0.223
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4+5	6	2437	19.55	20.00	1.109	100.00	1.000	-0.03	0.315	0.349
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	6	2437	19.78	20.00	1.052	100.00	1.000	-0.03	0.258	0.271
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 4+5	6	2437	19.55	20.00	1.109	100.00	1.000	0.09	0.001	0.001
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 5	6	2437	19.78	20.00	1.052	100.00	1.000	-0.06	0.111	0.117
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 4+5	6	2437	19.55	20.00	1.109	100.00	1.000	-0.11	0.265	0.294
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 5	6	2437	19.78	20.00	1.052	100.00	1.000	0.13	0.001	0.001



<5.2GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	0.15	0.238	0.257
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	-0.07	0.302	0.326
42	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	0.14	0.337	0.363
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	38	5190	12.46	12.50	1.010	95.93	1.042	0.01	0.071	0.075
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	0.18	0.042	0.045
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	-0.14	0.145	0.171
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	-0.05	0.175	0.207
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	-0.12	0.122	0.144
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	0.05	0.248	0.293
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	0.15	0.238	0.257
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	-0.07	0.302	0.326
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	0.14	0.337	0.363
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5	38	5190	12.46	12.50	1.010	95.93	1.042	0.01	0.071	0.075
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5	46	5230	18.35	18.50	1.035	95.93	1.042	0.18	0.042	0.045
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	-0.14	0.145	0.171
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	-0.05	0.175	0.207
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	-0.12	0.122	0.144
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 4	46	5230	17.95	18.50	1.135	95.93	1.042	0.05	0.248	0.293
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+5	46	5230	18.40	18.50	1.024	95.16	1.051	-0.03	0.373	0.402
					Ant 5			18.03	18.50	1.114	95.16	1.051	-0.03	0.303	0.355
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+5	46	5230	18.40	18.50	1.024	95.16	1.051	0.16	0.233	0.251
					Ant 5			18.03	18.50	1.114	95.16	1.051	0.16	0.252	0.295
	WLAN5GHz	802.11n-HT40 MCS0	Right side	10mm	Ant 4+5	46	5230	18.40	18.50	1.024	95.16	1.051	0.03	0.001	0.001
					Ant 5			18.03	18.50	1.114	95.16	1.051	0.03	0.315	0.369
	WLAN5GHz	802.11n-HT40 MCS0	Top side	10mm	Ant 4+5	46	5230	18.40	18.50	1.024	95.16	1.051	0.01	0.336	0.362
					Ant 5			18.03	18.50	1.114	95.16	1.051	0.01	0.001	0.001

<5.8GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.04	0.126	0.159
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.19	0.167	0.211
43	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5	155	5775	17.34	18.00	1.306	92.00	1.087	0.02	0.176	0.250
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.03	0.022	0.028
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	0.03	0.115	0.141
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	-0.02	0.142	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	0.04	0.088	0.108
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	-0.07	0.151	0.185
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.04	0.126	0.159
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.19	0.167	0.211
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 5	155	5775	17.34	18.00	1.306	92.00	1.087	0.02	0.176	0.250
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.03	0.022	0.028
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	0.03	0.115	0.141
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	-0.02	0.142	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	0.04	0.088	0.108
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	-0.07	0.151	0.185
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+5	155	5775	17.36	18.00	1.158	91.20	1.096	-0.05	0.163	0.207
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+5	155	5775	17.50	18.00	1.122	91.20	1.096	-0.05	0.194	0.239
	WLAN5GHz	802.11ac-VHT80 MCS0	Right side	10mm	Ant 4+5	155	5775	17.36	18.00	1.158	91.20	1.096	-0.02	0.056	0.071
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+5	155	5775	17.50	18.00	1.122	91.20	1.096	-0.02	0.219	0.269
	WLAN5GHz	802.11ac-VHT80 MCS0	Right side	10mm	Ant 4+5	155	5775	17.36	18.00	1.158	91.20	1.096	0.03	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+5	155	5775	17.50	18.00	1.122	91.20	1.096	0.03	0.046	0.057
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+5	155	5775	17.36	18.00	1.158	91.20	1.096	0	0.073	0.093
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 4+5	155	5775	17.50	18.00	1.122	91.20	1.096	0	0.056	0.069

<Bluetooth SAR>

WWAN off, WWAN on, WIFI on, WIFI off, WWAN on and WIFI on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0	0.049	0.056
	Bluetooth	1Mbps	Back	10mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.16	0.070	0.080
	Bluetooth	1Mbps	Back	10mm	Ant 5	39	2441	11.26	11.50	1.057	76.60	1.087	0.03	0.083	0.095
44	Bluetooth	1Mbps	Back	10mm	Ant 5	78	2480	10.92	11.50	1.143	76.60	1.087	0.15	0.084	0.104
	Bluetooth	1Mbps	Right Side	10mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.12	0.023	0.026
	Bluetooth	1Mbps	Top Side	10mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.04	0.013	0.015

13.3 Body Worn Accessory SAR

<GSM850>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850_UAT	GPRS (4 Tx slots)	Front	10mm	251	848.8	27.80	28.00	1.047	-0.02	0.486	0.509
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	251	848.8	27.80	28.00	1.047	-0.01	0.493	0.516
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.75	28.00	1.059	-0.04	0.480	0.508
	GSM850_UAT	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.74	28.00	1.062	0.02	0.465	0.494
	GSM850_LAT	GPRS (4 Tx slots)	Front	10mm	251	848.8	27.80	28.00	1.047	0.02	0.538	0.563
45	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	251	848.8	27.80	28.00	1.047	-0.07	0.551	0.577
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	128	824.2	27.75	28.00	1.059	-0.1	0.534	0.566
	GSM850_LAT	GPRS (4 Tx slots)	Back	10mm	189	836.4	27.74	28.00	1.062	-0.01	0.542	0.575

<GSM1900>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM1900_UAT	GPRS (3 Tx slots)	Front	10mm	512	1850.2	26.27	27.00	1.183	-0.05	0.454	0.537
	GSM1900_UAT	GPRS (3 Tx slots)	Back	10mm	512	1850.2	26.27	27.00	1.183	-0.05	0.623	0.737
	GSM1900_UAT	GPRS (3 Tx slots)	Back	10mm	661	1880	26.21	27.00	1.199	0.03	0.529	0.635
	GSM1900_UAT	GPRS (3 Tx slots)	Back	10mm	810	1909.8	26.12	27.00	1.225	-0.1	0.476	0.583
	GSM1900_LAT	GPRS (3 Tx slots)	Front	10mm	512	1850.2	26.27	27.00	1.183	-0.11	0.566	0.670
	GSM1900_LAT	GPRS (3 Tx slots)	Back	10mm	512	1850.2	26.27	27.00	1.183	-0.08	0.607	0.718
	GSM1900_LAT	GPRS (3 Tx slots)	Back	10mm	661	1880	26.21	27.00	1.199	-0.02	0.614	0.736
46	GSM1900_LAT	GPRS (3 Tx slots)	Back	10mm	810	1909.8	26.12	27.00	1.225	0.04	0.609	0.746

<WCDMA II>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	23.20	24.00	1.202	-0.01	0.622	0.748
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	23.20	24.00	1.202	-0.01	0.664	0.798
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9400	1880	23.06	24.00	1.242	0.17	0.685	0.851
	WCDMA II_UAT	RMC 12.2Kbps	Back	10mm	9538	1907.6	23.05	24.00	1.245	0.01	0.454	0.565
	WCDMA II_LAT	RMC 12.2Kbps	Front	10mm	9262	1852.4	23.20	24.00	1.202	0.09	0.618	0.743
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9262	1852.4	23.20	24.00	1.202	-0.02	0.722	0.868
47	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9400	1880	23.06	24.00	1.242	0.02	0.893	1.109
	WCDMA II_LAT	RMC 12.2Kbps	Back	10mm	9538	1907.6	23.05	24.00	1.245	0	0.799	0.994

<WCDMA IV>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA IV_UAT	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.33	24.00	1.167	-0.02	0.196	0.229
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.33	24.00	1.167	-0.05	0.409	0.477
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	23.23	24.00	1.194	0.05	0.438	0.523
	WCDMA IV_UAT	RMC 12.2Kbps	Back	10mm	1513	1752.6	23.25	24.00	1.189	0	0.501	0.595
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1312	1712.4	23.33	24.00	1.167	-0.03	0.780	0.910
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1413	1732.6	23.23	24.00	1.194	-0.01	0.799	0.954
	WCDMA IV_LAT	RMC 12.2Kbps	Front	10mm	1513	1752.6	23.25	24.00	1.189	-0.05	0.768	0.913
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1312	1712.4	23.33	24.00	1.167	-0.01	0.907	1.058
48	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1413	1732.6	23.23	24.00	1.194	0.01	0.940	1.122
	WCDMA IV_LAT	RMC 12.2Kbps	Back	10mm	1513	1752.6	23.25	24.00	1.189	0.01	0.891	1.059

<WCDMA V>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V_UAT	RMC 12.2Kbps	Front	10mm	4132	826.4	23.89	24.00	1.026	0.02	0.188	0.193
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4132	826.4	23.89	24.00	1.026	0.04	0.209	0.214
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4182	836.4	23.75	24.00	1.059	0.09	0.251	0.266
	WCDMA V_UAT	RMC 12.2Kbps	Back	10mm	4233	846.6	23.83	24.00	1.040	0.1	0.342	0.356
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4132	826.4	23.89	24.00	1.026	-0.09	0.286	0.293
49	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4182	836.4	23.75	24.00	1.059	-0.03	0.343	0.363
	WCDMA V_LAT	RMC 12.2Kbps	Front	10mm	4233	846.6	23.83	24.00	1.040	0.03	0.332	0.345
	WCDMA V_LAT	RMC 12.2Kbps	Back	10mm	4132	826.4	23.89	24.00	1.026	0.01	0.266	0.273

<CDMA BC0>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC0_UAT	1xRTT RC3 SO32	Front	10mm	1013	824.7	24.31	25.00	1.172	0.01	0.243	0.285
	CDMA BC0_UAT	1xRTT RC3 SO32	Front	10mm	384	836.52	24.26	25.00	1.186	0.02	0.342	0.406
	CDMA BC0_UAT	1xRTT RC3 SO32	Front	10mm	777	848.31	24.26	25.00	1.186	-0.02	0.430	0.510
	CDMA BC0_UAT	1xRTT RC3 SO32	Back	10mm	1013	824.7	24.31	25.00	1.172	0.02	0.199	0.233
	CDMA BC0_LAT	1xRTT RC3 SO32	Front	10mm	1013	824.7	24.31	25.00	1.172	-0.12	0.375	0.440
	CDMA BC0_LAT	1xRTT RC3 SO32	Back	10mm	1013	824.7	24.31	25.00	1.172	-0.05	0.349	0.409
	CDMA BC0_LAT	1xRTT RC3 SO32	Back	10mm	384	836.52	24.26	25.00	1.186	-0.03	0.447	0.530
50	CDMA BC0_LAT	1xRTT RC3 SO32	Back	10mm	777	848.31	24.26	25.00	1.186	-0.02	0.469	0.556

<CDMA BC1>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	25	1851.25	24.88	25.00	1.028	-0.13	0.995	1.023
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	600	1880	24.66	25.00	1.081	-0.1	0.966	1.045
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	1175	1908.75	24.64	25.00	1.086	0.02	1.060	1.152
51	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	25	1851.25	24.88	25.00	1.028	-0.15	1.160	1.192
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	600	1880	24.66	25.00	1.081	-0.18	1.040	1.125
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	1175	1908.75	24.64	25.00	1.086	-0.07	1.060	1.152
WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	25	1851.25	23.42	24.00	1.143	-0.13	0.710	0.811
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	600	1880	23.49	24.00	1.125	-0.1	0.742	0.834
	CDMA BC1_UAT	1xRTT RC3 SO32	Front	10mm	1175	1908.75	23.46	24.00	1.132	0.02	0.816	0.924
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	25	1851.25	23.42	24.00	1.143	-0.15	0.825	0.943
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	600	1880	23.49	24.00	1.125	-0.18	0.789	0.887
	CDMA BC1_UAT	1xRTT RC3 SO32	Back	10mm	1175	1908.75	23.46	24.00	1.132	-0.07	0.792	0.897
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	25	1851.25	24.88	25.00	1.028	-0.05	1.060	1.090
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	600	1880	24.66	25.00	1.081	-0.01	1.020	1.103
	CDMA BC1_LAT	1xRTT RC3 SO32	Front	10mm	1175	1908.75	24.64	25.00	1.086	-0.03	1.030	1.119
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	25	1851.25	24.88	25.00	1.028	-0.01	1.100	1.131
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	600	1880	24.66	25.00	1.081	-0.01	1.090	1.179
	CDMA BC1_LAT	1xRTT RC3 SO32	Back	10mm	1175	1908.75	24.64	25.00	1.086	0.04	1.060	1.152

<CDMA BC10>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
52	CDMA BC10_UAT	1xRTT RC3 SO32	Front	10mm	580	820.5	24.33	25.00	1.167	0.03	0.397	0.463
	CDMA BC10_UAT	1xRTT RC3 SO32	Back	10mm	580	820.5	24.33	25.00	1.167	-0.03	0.198	0.231
	CDMA BC10_LAT	1xRTT RC3 SO32	Front	10mm	580	820.5	24.33	25.00	1.167	-0.09	0.346	0.404
	CDMA BC10_LAT	1xRTT RC3 SO32	Back	10mm	580	820.5	24.33	25.00	1.167	0.02	0.343	0.400

<FDD LTE B7>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7_UAT	20M	QPSK	1	0	Front	10mm	21350	2560	23.36	24.00	1.159	-0.06	0.419	0.486
	LTE Band 7_UAT	20M	QPSK	50	0	Front	10mm	21350	2560	22.24	23.00	1.191	-0.09	0.329	0.392
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	21350	2560	23.36	24.00	1.159	0.01	0.721	0.835
53	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	20850	2510	23.01	24.00	1.256	0.06	0.777	0.976
	LTE Band 7_UAT	20M	QPSK	1	0	Back	10mm	21100	2535	23.13	24.00	1.222	0.05	0.785	0.959
	LTE Band 7_UAT	20M	QPSK	50	0	Back	10mm	21350	2560	22.24	23.00	1.191	-0.07	0.559	0.666
	LTE Band 7_UAT	20M	QPSK	100	0	Back	10mm	21350	2560	22.19	23.00	1.205	0.14	0.565	0.681
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	21350	2560	23.36	24.00	1.159	-0.05	0.279	0.323
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	20850	2510	23.01	24.00	1.256	0.1	0.376	0.472
	LTE Band 7_LAT	20M	QPSK	1	0	Front	10mm	21100	2535	23.13	24.00	1.222	0.09	0.320	0.391
	LTE Band 7_LAT	20M	QPSK	50	0	Front	10mm	21350	2560	22.24	23.00	1.191	-0.05	0.211	0.251
	LTE Band 7_LAT	20M	QPSK	1	0	Back	10mm	21350	2560	23.36	24.00	1.159	0.14	0.250	0.290
	LTE Band 7_LAT	20M	QPSK	50	0	Back	10mm	21350	2560	22.24	23.00	1.191	-0.05	0.191	0.228

**<FDD LTE B12>**

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 12_UAT	10M	QPSK	1	0	Front	10mm	23095	707.5	23.64	24.50	1.219	0.05	0.219	0.267
	LTE Band 12_UAT	10M	QPSK	25	0	Front	10mm	23095	707.5	22.63	23.50	1.222	0.01	0.173	0.211
	LTE Band 12_UAT	10M	QPSK	1	0	Back	10mm	23095	707.5	23.64	24.50	1.219	-0.1	0.288	0.351
	LTE Band 12_UAT	10M	QPSK	25	0	Back	10mm	23095	707.5	22.63	23.50	1.222	-0.18	0.225	0.275
	LTE Band 12_LAT	10M	QPSK	1	0	Front	10mm	23095	707.5	23.64	24.50	1.219	-0.07	0.236	0.288
	LTE Band 12_LAT	10M	QPSK	25	0	Front	10mm	23095	707.5	22.63	23.50	1.222	-0.03	0.200	0.244
54	LTE Band 12_LAT	10M	QPSK	1	0	Back	10mm	23095	707.5	23.64	24.50	1.219	-0.01	0.293	0.357
	LTE Band 12_LAT	10M	QPSK	25	0	Back	10mm	23095	707.5	22.63	23.50	1.222	0	0.232	0.283

<FDD LTE B13>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 13_UAT	10M	QPSK	1	0	Front	10mm	23230	782	23.60	24.50	1.230	0.02	0.283	0.348
	LTE Band 13_UAT	10M	QPSK	25	0	Front	10mm	23230	782	22.52	23.50	1.253	0	0.219	0.274
55	LTE Band 13_UAT	10M	QPSK	1	0	Back	10mm	23230	782	23.60	24.50	1.230	-0.18	0.354	0.436
	LTE Band 13_UAT	10M	QPSK	25	0	Back	10mm	23230	782	22.52	23.50	1.253	-0.15	0.278	0.348
	LTE Band 13_LAT	10M	QPSK	1	0	Front	10mm	23230	782	23.60	24.50	1.230	0.01	0.329	0.405
	LTE Band 13_LAT	10M	QPSK	25	0	Front	10mm	23230	782	22.52	23.50	1.253	0.03	0.262	0.328
	LTE Band 13_LAT	10M	QPSK	1	0	Back	10mm	23230	782	23.60	24.50	1.230	0.03	0.305	0.375
	LTE Band 13_LAT	10M	QPSK	25	0	Back	10mm	23230	782	22.52	23.50	1.253	0.02	0.245	0.307

<FDD LTE B25>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26590	1905	23.61	24.00	1.094	-0.11	0.759	0.830
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26140	1860	23.42	24.00	1.143	0.02	0.825	0.943
	LTE Band 25_UAT	20M	QPSK	1	0	Front	10mm	26340	1880	23.39	24.00	1.151	-0.01	0.799	0.919
	LTE Band 25_UAT	20M	QPSK	50	0	Front	10mm	26590	1905	22.59	23.00	1.099	-0.02	0.586	0.644
	LTE Band 25_UAT	20M	QPSK	100	0	Front	10mm	26590	1905	22.51	23.00	1.119	-0.02	0.570	0.638
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26590	1905	23.61	24.00	1.094	-0.02	0.836	0.915
56	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26140	1860	23.42	24.00	1.143	0.01	0.950	1.086
	LTE Band 25_UAT	20M	QPSK	1	0	Back	10mm	26340	1880	23.39	24.00	1.151	0.01	0.896	1.031
	LTE Band 25_UAT	20M	QPSK	50	0	Back	10mm	26590	1905	22.59	23.00	1.099	0.02	0.643	0.707
	LTE Band 25_UAT	20M	QPSK	100	0	Back	10mm	26590	1905	22.51	23.00	1.119	-0.02	0.637	0.713
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26590	1905	23.61	24.00	1.094	-0.05	0.805	0.881
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26140	1860	23.42	24.00	1.143	-0.03	0.798	0.912
	LTE Band 25_LAT	20M	QPSK	1	0	Front	10mm	26340	1880	23.39	24.00	1.151	-0.01	0.876	1.008
	LTE Band 25_LAT	20M	QPSK	50	0	Front	10mm	26590	1905	22.59	23.00	1.099	-0.04	0.618	0.679
	LTE Band 25_LAT	20M	QPSK	100	0	Front	10mm	26590	1905	22.51	23.00	1.119	0.14	0.627	0.702
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26590	1905	23.61	24.00	1.094	0.01	0.862	0.943
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26140	1860	23.42	24.00	1.143	-0.03	0.876	1.001
	LTE Band 25_LAT	20M	QPSK	1	0	Back	10mm	26340	1880	23.39	24.00	1.151	0.03	0.916	1.054
	LTE Band 25_LAT	20M	QPSK	50	0	Back	10mm	26590	1905	22.59	23.00	1.099	0	0.666	0.732
	LTE Band 25_LAT	20M	QPSK	100	0	Back	10mm	26590	1905	22.51	23.00	1.119	-0.01	0.684	0.766

**<FDD LTE B26>**

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 26_UAT	15M	QPSK	1	0	Front	10mm	26865	831.5	24.24	24.50	1.062	-0.03	0.337	0.358
	LTE Band 26_UAT	15M	QPSK	36	0	Front	10mm	26865	831.5	22.95	23.50	1.135	-0.01	0.255	0.289
57	LTE Band 26_UAT	15M	QPSK	1	0	Back	10mm	26865	831.5	24.24	24.50	1.062	0.01	0.361	0.383
	LTE Band 26_UAT	15M	QPSK	36	0	Back	10mm	26865	831.5	22.95	23.50	1.135	0.02	0.268	0.304
	LTE Band 26_LAT	15M	QPSK	1	0	Front	10mm	26865	831.5	24.24	24.50	1.062	-0.05	0.325	0.345
	LTE Band 26_LAT	15M	QPSK	36	0	Front	10mm	26865	831.5	22.95	23.50	1.135	-0.06	0.246	0.279
	LTE Band 26_LAT	15M	QPSK	1	0	Back	10mm	26865	831.5	24.24	24.50	1.062	-0.04	0.329	0.349
	LTE Band 26_LAT	15M	QPSK	36	0	Back	10mm	26865	831.5	22.95	23.50	1.135	0.03	0.249	0.283

<FDD LTE B30>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 30_UAT	10M	QPSK	1	0	Front	10mm	27710	2310	23.19	24.00	1.205	0.19	0.290	0.349
	LTE Band 30_UAT	10M	QPSK	25	0	Front	10mm	27710	2310	22.19	23.00	1.205	0.19	0.239	0.288
58	LTE Band 30_UAT	10M	QPSK	1	0	Back	10mm	27710	2310	23.19	24.00	1.205	0.03	0.465	0.560
	LTE Band 30_UAT	10M	QPSK	25	0	Back	10mm	27710	2310	22.19	23.00	1.205	-0.02	0.391	0.471
	LTE Band 30_LAT	10M	QPSK	1	0	Front	10mm	27710	2310	23.19	24.00	1.205	-0.11	0.357	0.430
	LTE Band 30_LAT	10M	QPSK	25	0	Front	10mm	27710	2310	22.19	23.00	1.205	-0.1	0.285	0.343
	LTE Band 30_LAT	10M	QPSK	1	0	Back	10mm	27710	2310	23.19	24.00	1.205	0.19	0.301	0.363
	LTE Band 30_LAT	10M	QPSK	25	0	Back	10mm	27710	2310	22.19	23.00	1.205	0.13	0.239	0.288

<FDD LTE B66>

Wifi off															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 66_UAT	20M	QPSK	1	0	Front	10mm	132072	1720	23.23	24.00	1.194	-0.01	0.255	0.304
	LTE Band 66_UAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.23	23.00	1.194	0.17	0.170	0.203
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132072	1720	23.23	24.00	1.194	-0.01	0.496	0.592
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132322	1745	23.03	24.00	1.250	-0.03	0.563	0.704
	LTE Band 66_UAT	20M	QPSK	1	0	Back	10mm	132572	1770	23.01	24.00	1.256	-0.01	0.605	0.760
	LTE Band 66_UAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.23	23.00	1.194	0.04	0.388	0.463
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132072	1720	23.23	24.00	1.194	-0.01	0.767	0.916
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132322	1745	23.03	24.00	1.250	-0.15	0.726	0.908
	LTE Band 66_LAT	20M	QPSK	1	0	Front	10mm	132572	1770	23.01	24.00	1.256	-0.05	0.747	0.938
	LTE Band 66_LAT	20M	QPSK	50	0	Front	10mm	132072	1720	22.23	23.00	1.194	0.05	0.587	0.701
	LTE Band 66_LAT	20M	QPSK	100	0	Front	10mm	132072	1720	22.15	23.00	1.216	0.07	0.582	0.708
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132072	1720	23.23	24.00	1.194	0	0.942	1.125
	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132322	1745	23.03	24.00	1.250	-0.02	0.920	1.150
59	LTE Band 66_LAT	20M	QPSK	1	0	Back	10mm	132572	1770	23.01	24.00	1.256	-0.13	0.946	1.188
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132072	1720	22.23	23.00	1.194	-0.02	0.734	0.876
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132322	1745	22.06	23.00	1.242	-0.07	0.716	0.889
	LTE Band 66_LAT	20M	QPSK	50	0	Back	10mm	132572	1770	22.04	23.00	1.247	-0.04	0.665	0.830
	LTE Band 66_LAT	20M	QPSK	100	0	Back	10mm	132072	1720	22.15	23.00	1.216	-0.04	0.734	0.893



<FDD LTE B71>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71_UAT	20M	QPSK	1	0	Front	10mm	133322	683	24.18	24.50	1.076	0.03	0.262	0.282
	LTE Band 71_UAT	20M	QPSK	50	0	Front	10mm	133322	683	22.40	23.50	1.288	0.03	0.174	0.224
60	LTE Band 71_UAT	20M	QPSK	1	0	Back	10mm	133322	683	24.18	24.50	1.076	0.01	0.301	0.324
	LTE Band 71_UAT	20M	QPSK	50	0	Back	10mm	133322	683	22.40	23.50	1.288	-0.01	0.199	0.256
	LTE Band 71_LAT	20M	QPSK	1	0	Front	10mm	133322	683	24.18	24.50	1.076	0	0.292	0.314
	LTE Band 71_LAT	20M	QPSK	50	0	Front	10mm	133322	683	22.40	23.50	1.288	0.01	0.193	0.249
	LTE Band 71_LAT	20M	QPSK	1	0	Back	10mm	133322	683	24.18	24.50	1.076	0	0.277	0.298
	LTE Band 71_LAT	20M	QPSK	50	0	Back	10mm	133322	683	22.40	23.50	1.288	0	0.182	0.234

<TDD LTE B41>

Wifi off																	
Note	Plot No	Band	BW (MHz)	Modulation	RB Size	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
		LTE Band 41_UAT	20M	QPSK	1	Front	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.06	0.351	0.354
		LTE Band 41_UAT	20M	QPSK	50	Front	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.07	0.269	0.272
		LTE Band 41_UAT	20M	QPSK	1	Back	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	-0.02	0.561	0.566
		LTE Band 41_UAT	20M	QPSK	1	Back	10mm	39750	2506	24.86	25.20	1.081	62.9	1.006	-0.02	0.498	0.542
	61	LTE Band 41_UAT	20M	QPSK	1	Back	10mm	40620	2593	24.88	25.20	1.076	62.9	1.006	0.01	0.538	0.583
		LTE Band 41_UAT	20M	QPSK	1	Back	10mm	41055	2636.5	25.18	25.20	1.005	62.9	1.006	-0.06	0.507	0.512
		LTE Band 41_UAT	20M	QPSK	1	Back	10mm	41490	2680	24.31	25.20	1.227	62.9	1.006	-0.08	0.418	0.516
		LTE Band 41_UAT	20M	QPSK	50	Back	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.09	0.434	0.439
		LTE Band 41_UAT	20M	QPSK	100	Back	10mm	40185	2549.5	24.19	24.20	1.002	62.9	1.006	0.04	0.407	0.410
HPUE		LTE Band 41_UAT	20M	QPSK	1	Back	10mm	40620	2593	26.08	26.50	1.102	42.90	1.009	-0.05	0.447	0.497
		LTE Band 41_LAT	20M	QPSK	1	Front	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	-0.03	0.277	0.279
		LTE Band 41_LAT	20M	QPSK	1	Front	10mm	39750	2506	24.86	25.20	1.081	62.9	1.006	-0.05	0.296	0.322
		LTE Band 41_LAT	20M	QPSK	1	Front	10mm	40620	2593	24.88	25.20	1.076	62.9	1.006	-0.06	0.244	0.264
		LTE Band 41_LAT	20M	QPSK	1	Front	10mm	41055	2636.5	25.18	25.20	1.005	62.9	1.006	0.05	0.263	0.266
		LTE Band 41_LAT	20M	QPSK	1	Front	10mm	41490	2680	24.31	25.20	1.227	62.9	1.006	0.07	0.202	0.249
		LTE Band 41_LAT	20M	QPSK	50	Front	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	-0.1	0.212	0.214
		LTE Band 41_LAT	20M	QPSK	1	Back	10mm	40185	2549.5	25.19	25.20	1.002	62.9	1.006	0.06	0.260	0.262
		LTE Band 41_LAT	20M	QPSK	50	Back	10mm	40185	2549.5	24.18	24.20	1.005	62.9	1.006	0.08	0.199	0.201
HPUE		LTE Band 41_LAT	20M	QPSK	1	Front	10mm	39750	2506	26.12	26.50	1.091	42.90	1.009	-0.1	0.254	0.280



<2.4GHz WLAN SAR>

WWAN off															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	-0.06	0.212	0.236
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	-0.16	0.279	0.310
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	-0.12	0.284	0.343
62	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	11	2462	19.53	20.00	1.114	100.00	1.000	-0.11	0.344	0.383
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	0	0.188	0.198
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	0.15	0.259	0.273
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	-0.05	0.259	0.285
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	11	2462	19.74	20.00	1.062	100.00	1.000	-0.1	0.241	0.256
WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	-0.06	0.212	0.256
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	1	2412	18.18	19.00	1.208	100.00	1.000	-0.12	0.284	0.343
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	6	2437	19.54	20.00	1.112	100.00	1.000	-0.16	0.279	0.310
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 5	11	2462	19.53	20.00	1.114	100.00	1.000	-0.11	0.344	0.383
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	0	0.188	0.207
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	1	2412	18.58	19.00	1.102	100.00	1.000	-0.05	0.259	0.285
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	6	2437	19.77	20.00	1.054	100.00	1.000	0.15	0.233	0.246
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4	11	2462	19.74	20.00	1.062	100.00	1.000	-0.1	0.241	0.256
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 4+5	6	2437	19.55	20.00	1.109	100.00	1.000	0.11	0.229	0.254
		802.11b 1Mbps			Ant 5			19.78	20.00	1.052	100.00	1.000	0.11	0.212	0.223
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 4+5	6	2437	19.55	20.00	1.109	100.00	1.000	-0.03	0.315	0.349
		802.11b 1Mbps			Ant 5			19.78	20.00	1.052	100.00	1.000	-0.03	0.258	0.271



<5.3GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	0.05	0.245	0.258	
63	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	-0.08	0.394	0.414	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	62	5310	14.03	14.50	1.114	95.93	1.042	0.01	0.106	0.123	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	-0.13	0.149	0.178	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	-0.14	0.179	0.214	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	0.05	0.245	0.258	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	-0.08	0.394	0.414	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5	62	5310	14.03	14.50	1.114	95.93	1.042	0.01	0.106	0.123	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	-0.13	0.149	0.178	
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	-0.14	0.179	0.214	
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Ant 4+5	Ant 5	54	5270	18.48	18.50	1.006	95.16	1.051	-0.03	0.365	0.386
					Ant 5				18.00	18.50	1.122	95.16	1.051	-0.03	0.309	0.364
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+5	Ant 4	54	5270	18.48	18.50	1.006	95.16	1.051	-0.16	0.271	0.286
					Ant 5				18.00	18.50	1.122	95.16	1.051	-0.16	0.230	0.271

<5.5GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	-0.01	0.161	0.203	
64	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	-0.04	0.184	0.232	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	122	5610	17.85	18.50	1.161	92.00	1.087	0.04	0.174	0.220	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	106	5530	12.46	12.50	1.009	92.00	1.087	0.15	0.045	0.049	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	0.02	0.118	0.154	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	-0.14	0.149	0.195	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	-0.01	0.161	0.203	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	-0.04	0.184	0.232	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	106	5530	12.46	12.50	1.009	92.00	1.087	0.15	0.045	0.049	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	0.02	0.118	0.154	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	-0.14	0.149	0.195	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+5	Ant 4	138	5690	17.88	18.50	1.153	91.20	1.096	-0.07	0.192	0.243
					Ant 5				17.72	18.50	1.197	91.20	1.096	-0.07	0.242	0.317
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+5	Ant 4	138	5690	17.88	18.50	1.153	91.20	1.096	0.13	0.075	0.095
					Ant 5				17.72	18.50	1.197	91.20	1.096	0.13	0.220	0.289

<5.8GHz WLAN SAR>

WWAN off																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.04	0.126	0.159	
65	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.19	0.167	0.211	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	0.03	0.115	0.141	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	-0.02	0.142	0.174	
WWAN on																
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.04	0.126	0.159	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 5	155	5775	17.34	18.00	1.164	92.00	1.087	0.19	0.167	0.211	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	0.03	0.115	0.141	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4	155	5775	17.49	18.00	1.125	91.63	1.091	-0.02	0.142	0.174	
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 4+5	Ant 4 Ant 5	155	5775	17.36	18.00	1.158	91.20	1.096	-0.05	0.163	0.207
					17.50				18.00	1.122	91.20	1.096	-0.05	0.194	0.239	
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+5	Ant 4 Ant 5	155	5775	17.36	18.00	1.158	91.20	1.096	-0.02	0.056	0.071
					17.50				18.00	1.122	91.20	1.096	-0.02	0.219	0.269	

<Bluetooth SAR>

WWAN off, WWAN on, WIFI on, WIFI off, WWAN on and WIFI on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	10mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0	0.049	0.056
	Bluetooth	1Mbps	Back	10mm	Ant 5	0	2402	11.29	11.50	1.050	76.60	1.087	0.16	0.070	0.080
	Bluetooth	1Mbps	Back	10mm	Ant 5	39	2441	11.26	11.50	1.057	76.60	1.087	0.03	0.083	0.095
66	Bluetooth	1Mbps	Back	10mm	Ant 5	78	2480	10.92	11.50	1.143	76.60	1.087	0.15	0.084	0.104

13.4 Product Specific SAR
<WCDMA II>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	0mm	9262	1852.4	23.20	24.00	1.202	-0.02	2.050	2.465
67	WCDMA II_UAT	RMC 12.2Kbps	Top Side	0mm	9400	1880	23.06	24.00	1.242	-0.02	2.110	2.620
	WCDMA II_UAT	RMC 12.2Kbps	Top Side	0mm	9538	1907.6	23.05	24.00	1.245	-0.09	1.810	2.253
	WCDMA II_LAT	RMC 12.2Kbps	Bottom Side	0mm	9262	1852.4	23.20	24.00	1.202	0	1.230	1.479

<WCDMA IV>

WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
68	WCDMA IV_LAT	RMC 12.2Kbps	Bottom Side	0mm	1312	1712.4	23.33	24.00	1.167	-0.06	0.775	0.904

<CDMA BC1>

WIFI off												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	0mm	600	1880	24.65	25.00	1.084	0.15	3.180	3.447
69	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	0mm	25	1851.25	24.62	25.00	1.091	0.18	3.190	3.482
	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	0mm	1175	1908.75	24.52	25.00	1.117	0.16	3.050	3.406
WIFI off / WIFI on												
Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	0mm	600	1880	24.65	25.00	1.084	0.16	2.200	2.385
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	0mm	25	1851.25	24.62	25.00	1.091	0.05	2.430	2.652
	CDMA BC1_LAT	RTAP 153.6Kbps	Bottom Side	0mm	1175	1908.75	24.52	25.00	1.117	0.08	1.900	2.122

<FDD LTE B25>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	0mm	26590	1905	23.61	24.00	1.094	0.03	2.170	2.374
	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	0mm	26140	1860	23.42	24.00	1.143	0.12	2.050	2.343
70	LTE Band 25_UAT	20M	QPSK	1	0	Top Side	0mm	26340	1880	23.39	24.00	1.151	0.14	2.110	2.428
	LTE Band 25_LAT	20M	QPSK	1	0	Bottom Side	0mm	26590	1905	23.61	24.00	1.094	0.17	1.340	1.466

<FDD LTE B66>

WIFI off / WIFI on															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
71	LTE Band 66_LAT	20M	QPSK	1	0	Bottom Side	0mm	132072	1720	23.23	24.00	1.194	-0.02	0.741	0.885

<5.3GHZ WLAN SAR>

WWAN off / WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	0.05	1.050	1.104
72	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	-0.06	1.580	1.661
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	62	5310	14.03	14.50	1.114	95.93	1.042	-0.07	0.554	0.643
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	-0.13	0.763	0.802
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5	54	5270	18.46	18.50	1.009	95.93	1.042	0.11	0.114	0.120
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	0.15	0.595	0.712
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	-0.11	0.614	0.734
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	-0.06	0.412	0.493
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	54	5270	17.90	18.50	1.148	95.93	1.042	0.07	0.906	1.084



<5.5GHz WLAN SAR>

WWAN off / WWAN on															
Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
73	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	0.09	0.909	1.144
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	-0.07	0.994	1.251
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	122	5610	17.85	18.50	1.161	92.00	1.087	0.12	0.952	1.202
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	106	5530	12.46	12.50	1.009	92.00	1.087	0.04	0.318	0.349
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	0.17	0.540	0.680
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	138	5690	17.86	18.50	1.158	92.00	1.087	-0.03	0.119	0.150
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	-0.12	0.492	0.644
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	-0.09	0.489	0.640
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	0.08	0.411	0.538
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4	138	5690	17.71	18.50	1.200	91.63	1.091	0.09	0.590	0.772

13.5 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

<LTE Band 41 Linearity Data for Head>

	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	22	23.5
Reported 1g SAR (W/kg)	1.287	1.268
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	100.32	96.94
Linearity SAR(W/kg)	1.24	
% deviation from expected linearity		1.97%

<LTE Band 41 Linearity Data for Hotspot and Body-worn>

	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)
Maximum Tune up Power (dBm)	25.2	26.5
Reported 1g SAR (W/kg)	0.583	0.497
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	209.61	193.41
Linearity SAR(W/kg)	0.54	
% deviation from expected linearity		-7.61%



13.6 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	777	848.31	23.77	24.50	1.183		1.000	0.05	1.130		1.337
2nd	CDMA BC0_UAT	1xRTT RC3 SO55	Right Tilted	0mm	777	848.31	23.77	24.50	1.183		1.000	0.02	1.110	1.02	1.313
1st	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	19.40	20.00	1.148		1.000	0.1	1.170		1.343
2nd	CDMA BC1_UAT	1xRTT RC3 SO55	Right Tilted	0mm	600	1880	19.40	20.00	1.148		1.000	-0.18	1.160	1.01	1.332
1st	LTE Band 30_UAT	10M_QPSK_25_0	Right Cheek	0mm	27710	2310	22.40	23.00	1.148		1.000	-0.02	1.120		1.286
2nd	LTE Band 30_UAT	10M_QPSK_25_0	Right Cheek	0mm	27710	2310	22.40	23.00	1.148		1.000	0.03	1.070	1.05	1.229
1st	LTE Band 41_UAT	20M_QPSK_50_0	Right Cheek	0mm	40185	2549.5	21.18	22.00	1.208	62.9	1.006	-0.09	1.050		1.276
2nd	LTE Band 41_UAT	20M_QPSK_50_0	Right Cheek	0mm	40185	2549.5	21.18	22.00	1.208	62.9	1.006	-0.03	1.020	1.03	1.239
1st	LTE Band 66_LAT	20M_QPSK_1_0	Bottom Side	10mm	132572	1770	22.03	23.00	1.250		1.000	-0.12	1.070		1.338
2nd	LTE Band 66_LAT	20M_QPSK_1_0	Bottom Side	10mm	132572	1770	22.03	23.00	1.250		1.000	-0.01	1.020	1.05	1.275

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)	
1st	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm		Ant 4	1	2412	18.50	18.50	1.000	100.00	1.000	-0.01	1.290		1.290
2nd	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm		Ant 4	1	2412	18.50	18.50	1.000	100.00	1.000	-0.15	1.240	1.04	1.240
1st	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	36	5180	14.00	14.00	1.000	97.73	1.023	-0.03	1.170		1.197
						Ant 5	36	5180	14.10	14.50	1.096	97.73	1.023	-0.03	1.040		1.167
2nd	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 4+5	Ant 4	36	5180	14.00	14.00	1.000	97.73	1.023	-0.06	1.130		1.156
						Ant 5	36	5180	14.10	14.50	1.096	97.73	1.023	-0.06	1.010	1.04	1.133
1st	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm		Ant 5	54	5270	14.67	15.00	1.079	95.93	1.042	-0.05	1.190		1.338
2nd	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm		Ant 5	54	5270	14.67	15.00	1.079	95.93	1.042	-0.14	1.140	1.04	1.282
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm		Ant 5	138	5690	14.40	15.00	1.148	91.63	1.091	-0.03	1.070		1.340
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm		Ant 5	138	5690	14.40	15.00	1.148	91.63	1.091	-0.01	1.030	1.04	1.290
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm		Ant 5	155	5775	14.46	15.00	1.132	91.63	1.091	-0.08	1.080		1.334
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm		Ant 5	155	5775	14.46	15.00	1.132	91.63	1.091	-0.03	1.030	1.05	1.273

No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	0mm	25	1851.25	24.62	25.00	1.091	0.18	3.190		3.482
2nd	CDMA BC1_UAT	RTAP 153.6Kbps	Top Side	0mm	25	1851.25	24.62	25.00	1.091	0.11	3.090	1.03	3.373

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured SAR*.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

14. Simultaneous Transmission Analysis

Exposure Conditions	Item	Capable Transmit Configuration		Remark
Head / Body-worn	1.	WWAN off (Cellular off)	+(Ant 4)WIFI 5G SISO +(Ant 5) Bluetooth	
	2.		+WIFI 5G MIMO+(Ant 5) Bluetooth	
	3.		+(Ant 4)WIFI 5G SISO	
	4.		+(Ant 5)WIFI 5G SISO	
	5.		+WIFI 5G MIMO	
	6.		+(Ant 5) WIFI 2.4G SISO	
	7.		+(Ant 4)WIFI 2.4G SISO +(Ant 5)Bluetooth	
	8.		+WIFI 2.4G MIMO	
	9.		+(Ant 4)WIFI 5G SISO+(Ant 5) WIFI 2.4G SISO	
	10.	WWAN on (Cellular on)	+(Ant 4)WIFI 5G SISO +(Ant 5) Bluetooth	
	11.		+WIFI 5G MIMO+(Ant 5) Bluetooth	
	12.		+(Ant 4)WIFI 5G SISO	
	13.		+WIFI 5G MIMO	
	14.		+(Ant 5) WIFI 2.4G SISO	
	15.		+(Ant 4)WIFI 2.4G SISO +(Ant 5)Bluetooth	
	16.		+WIFI 2.4G MIMO	
	17.		+(Ant 4)WIFI 5G SISO+(Ant 5) WIFI 2.4G SISO	
	18.		+(Ant 5) Bluetooth	

General Note:

- This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
- The worst case WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WiFi Direct and Hotspot capability. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - Scalar SAR summation < 1.6W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR, if $SPLSR < 0.1$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - For each cellular band, the device has 2 antennas (LAT antenna located in the bottom, UAT antenna located in the top edge), the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time. The device has several power modes which are determined by the exposure conditions for head/hotspot/body-worn and also the simultaneous transmission conditions, the detailed implementation of the detection of the use cases and the power table control is illustrated in the operational description exhibit

**14.1 Head Exposure Conditions****<WWAN on with WiFi on and Bluetooth Power>**

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
GSM	GSM850_UAT	Right Cheek	1.075	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.115	1.250	1.230	1.159	1.190	1.247	1.223	1.293
		Right Tilted	1.107	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.137	1.277	1.272	1.175	1.242	1.274	1.178	1.326
		Left Cheek	0.845	0.188	0.284	0.395	0.175	0.214	0.399	0.399	1.033	1.343	1.208	1.240	1.020	1.234	1.244	1.458
		Left Tilted	0.907	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.964	1.314	1.163	1.071	1.106	1.170	1.279	1.249
	GSM1900_UAT	Right Cheek	1.106	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.146	1.281	1.261	1.190	1.221	1.278	1.254	1.324
		Right Tilted	1.154	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.184	1.324	1.319	1.222	1.289	1.321	1.225	1.373
		Left Cheek	0.600	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.788	1.098	0.963	0.995	0.775	0.989	0.999	1.213
		Left Tilted	0.971	0.057	0.343	0.164	0.199	0.064	0.372	0.278	1.028	1.378	1.227	1.135	1.170	1.234	1.343	1.313
WCDMA	WCDMA II_UAT	Right Cheek	0.907	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.947	1.082	1.062	0.991	1.022	1.079	1.055	1.125
		Right Tilted	1.180	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.210	1.350	1.345	1.248	1.315	1.347	1.251	1.399
		Left Cheek	0.677	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.865	1.175	1.040	1.072	0.852	1.066	1.076	1.290
		Left Tilted	0.914	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.971	1.321	1.170	1.078	1.113	1.177	1.286	1.256
	WCDMA IV_UAT	Right Cheek	0.858	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.898	1.033	1.013	0.942	0.973	1.030	1.006	1.076
		Right Tilted	1.168	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.198	1.338	1.333	1.236	1.303	1.335	1.239	1.387
		Left Cheek	0.674	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.862	1.172	1.037	1.069	0.849	1.063	1.073	1.287
		Left Tilted	0.897	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.954	1.304	1.153	1.061	1.096	1.160	1.269	1.239
	WCDMA V_UAT	Right Cheek	0.515	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.555	0.690	0.670	0.599	0.630	0.687	0.663	0.733
		Right Tilted	0.903	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.933	1.073	1.068	0.971	1.038	1.070	0.974	1.122
		Left Cheek	0.542	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.730	1.040	0.905	0.937	0.717	0.931	0.941	1.155
		Left Tilted	0.472	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.529	0.879	0.728	0.636	0.671	0.735	0.844	0.814
CDMA	CDMA BC0_UAT	Right Cheek	1.053	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.093	1.228	1.208	1.137	1.168	1.225	1.201	1.271
		Right Tilted	1.191	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.221	1.361	1.356	1.259	1.326	1.358	1.262	1.410
		Left Cheek	0.854	0.188	0.284	0.395	0.175	0.214	0.399	0.399	1.042	1.352	1.217	1.249	1.029	1.243	1.253	1.467
		Left Tilted	0.996	0.057	0.343	0.164	0.199	0.064	0.372	0.278	1.053	1.403	1.252	1.160	1.195	1.259	1.368	1.338
	CDMA BC1_UAT	Right Cheek	0.937	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.977	1.112	1.092	1.021	1.052	1.109	1.085	1.155
		Right Tilted	1.197	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.227	1.367	1.362	1.265	1.332	1.364	1.268	1.416
		Left Cheek	0.729	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.917	1.227	1.092	1.124	0.904	1.118	1.128	1.342
		Left Tilted	0.932	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.989	1.339	1.188	1.096	1.131	1.195	1.304	1.274
	CDMA BC10_UAT	Right Cheek	0.978	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.018	1.153	1.133	1.062	1.093	1.150	1.126	1.196
		Right Tilted	1.157	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.187	1.327	1.322	1.225	1.292	1.324	1.228	1.376
		Left Cheek	0.918	0.188	0.284	0.395	0.175	0.214	0.399	0.399	1.106	1.416	1.281	1.313	1.093	1.307	1.317	1.531
		Left Tilted	1.053	0.057	0.343	0.164	0.199	0.064	0.372	0.278	1.110	1.460	1.309	1.217	1.252	1.316	1.425	1.395



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2	1+3+6	1+2+5	1+4	1+5	1+5+6	1+7	1+6+8
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE	LTE Band 7_UAT	Right Cheek	1.139	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.179	1.314	1.294	1.223	1.254	1.311	1.287	1.357
		Right Tilted	0.508	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.538	0.678	0.673	0.576	0.643	0.675	0.579	0.727
		Left Cheek	0.394	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.582	0.892	0.757	0.789	0.569	0.783	0.793	1.007
		Left Tilted	0.531	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.588	0.938	0.787	0.695	0.730	0.794	0.903	0.873
	LTE Band 12_UAT	Right Cheek	0.730	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.770	0.905	0.885	0.814	0.845	0.902	0.878	0.948
		Right Tilted	0.642	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.672	0.812	0.807	0.710	0.777	0.809	0.713	0.861
		Left Cheek	0.607	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.795	1.105	0.970	1.002	0.782	0.996	1.006	1.220
		Left Tilted	0.605	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.662	1.012	0.861	0.769	0.804	0.868	0.977	0.947
	LTE Band 13_UAT	Right Cheek	0.941	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.981	1.116	1.096	1.025	1.056	1.113	1.089	1.159
		Right Tilted	0.778	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.808	0.948	0.943	0.846	0.913	0.945	0.849	0.997
		Left Cheek	0.750	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.938	1.248	1.113	1.145	0.925	1.139	1.149	1.363
		Left Tilted	0.749	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.806	1.156	1.005	0.913	0.948	1.012	1.121	1.091
	LTE Band 25_UAT	Right Cheek	0.901	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.941	1.076	1.056	0.985	1.016	1.073	1.049	1.119
		Right Tilted	1.200	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.230	1.370	1.365	1.268	1.335	1.367	1.271	1.419
		Left Cheek	0.633	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.821	1.131	0.996	1.028	0.808	1.022	1.032	1.246
		Left Tilted	0.919	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.976	1.326	1.175	1.083	1.118	1.182	1.291	1.261
	LTE Band 26_UAT	Right Cheek	0.856	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.896	1.031	1.011	0.940	0.971	1.028	1.004	1.074
		Right Tilted	0.670	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.700	0.840	0.835	0.738	0.805	0.837	0.741	0.889
		Left Cheek	0.656	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.844	1.154	1.019	1.051	0.831	1.045	1.055	1.269
		Left Tilted	0.650	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.707	1.057	0.906	0.814	0.849	0.913	1.022	0.992
	LTE Band 30_UAT	Right Cheek	1.146	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.186	1.321	1.301	1.230	1.261	1.318	1.294	1.364
		Right Tilted	0.658	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.688	0.828	0.823	0.726	0.793	0.825	0.729	0.877
		Left Cheek	0.640	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.828	1.138	1.003	1.035	0.815	1.029	1.039	1.253
		Left Tilted	0.724	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.781	1.131	0.980	0.888	0.923	0.987	1.096	1.066
	LTE Band 41_UAT	Right Cheek	1.147	0.040	0.118	0.084	0.115	0.057	0.148	0.161	1.187	1.322	1.302	1.231	1.262	1.319	1.295	1.365
		Right Tilted	0.458	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.488	0.628	0.623	0.526	0.593	0.625	0.529	0.677
		Left Cheek	0.296	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.484	0.794	0.659	0.691	0.471	0.685	0.695	0.909
		Left Tilted	0.712	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.769	1.119	0.968	0.876	0.911	0.975	1.084	1.054
	LTE Band 66_UAT	Right Cheek	0.555	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.595	0.730	0.710	0.639	0.670	0.727	0.703	0.773
		Right Tilted	1.162	0.030	0.138	0.068	0.135	0.032	0.071	0.187	1.192	1.332	1.327	1.230	1.297	1.329	1.233	1.381
		Left Cheek	0.490	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.678	0.988	0.853	0.885	0.665	0.879	0.889	1.103
		Left Tilted	0.637	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.694	1.044	0.893	0.801	0.836	0.900	1.009	0.979
	LTE Band 71_UAT	Right Cheek	0.701	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.741	0.876	0.856	0.785	0.816	0.873	0.849	0.919
		Right Tilted	0.695	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.725	0.865	0.860	0.763	0.830	0.862	0.766	0.914
		Left Cheek	0.652	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.840	1.150	1.015	1.047	0.827	1.041	1.051	1.265
		Left Tilted	0.700	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.757	1.107	0.956	0.864	0.899	0.963	1.072	1.042



WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5								
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
GSM	GSM850_LAT	Right Cheek	0.343	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.383	0.518	0.498	0.427	0.458	0.515	0.491	0.561
		Right Tilted	0.121	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.151	0.291	0.286	0.189	0.256	0.288	0.192	0.340
		Left Cheek	0.229	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.417	0.727	0.592	0.624	0.404	0.618	0.628	0.842
		Left Tilted	0.141	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.198	0.548	0.397	0.305	0.340	0.404	0.513	0.483
	GSM1900_LAT	Right Cheek	0.064	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.104	0.239	0.219	0.148	0.179	0.236	0.212	0.282
		Right Tilted	0.047	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.077	0.217	0.212	0.115	0.182	0.214	0.118	0.266
		Left Cheek	0.101	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.289	0.599	0.464	0.496	0.276	0.490	0.500	0.714
		Left Tilted	0.038	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.095	0.445	0.294	0.202	0.237	0.301	0.410	0.380
WCDMA	WCDMA II_LAT	Right Cheek	0.132	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.172	0.307	0.287	0.216	0.247	0.304	0.280	0.350
		Right Tilted	0.096	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.126	0.266	0.261	0.164	0.231	0.263	0.167	0.315
		Left Cheek	0.233	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.421	0.731	0.596	0.628	0.408	0.622	0.632	0.846
		Left Tilted	0.069	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.126	0.476	0.325	0.233	0.268	0.332	0.441	0.411
	WCDMA IV_LAT	Right Cheek	0.174	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.214	0.349	0.329	0.258	0.289	0.346	0.322	0.392
		Right Tilted	0.103	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.133	0.273	0.268	0.171	0.238	0.270	0.174	0.322
		Left Cheek	0.338	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.526	0.836	0.701	0.733	0.513	0.727	0.737	0.951
		Left Tilted	0.100	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.157	0.507	0.356	0.264	0.299	0.363	0.472	0.442
	WCDMA V_LAT	Right Cheek	0.270	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.310	0.445	0.425	0.354	0.385	0.442	0.418	0.488
		Right Tilted	0.141	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.171	0.311	0.306	0.209	0.276	0.308	0.212	0.360
		Left Cheek	0.221	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.409	0.719	0.584	0.616	0.396	0.610	0.620	0.834
		Left Tilted	0.132	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.189	0.539	0.388	0.296	0.331	0.395	0.504	0.474
CDMA	CDMA BC0_LAT	Right Cheek	0.448	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.488	0.623	0.603	0.532	0.563	0.620	0.596	0.666
		Right Tilted	0.200	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.230	0.370	0.365	0.268	0.335	0.367	0.271	0.419
		Left Cheek	0.309	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.497	0.807	0.672	0.704	0.484	0.698	0.708	0.922
		Left Tilted	0.209	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.266	0.616	0.465	0.373	0.408	0.472	0.581	0.551
	CDMA BC1_LAT	Right Cheek	0.193	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.233	0.368	0.348	0.277	0.308	0.365	0.341	0.411
		Right Tilted	0.126	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.156	0.296	0.291	0.194	0.261	0.293	0.197	0.345
		Left Cheek	0.406	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.594	0.904	0.769	0.801	0.581	0.795	0.805	1.019
		Left Tilted	0.147	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.204	0.554	0.403	0.311	0.346	0.410	0.519	0.489
	CDMA BC10_LAT	Right Cheek	0.346	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.386	0.521	0.501	0.430	0.461	0.518	0.494	0.564
		Right Tilted	0.168	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.198	0.338	0.333	0.236	0.303	0.335	0.239	0.387
		Left Cheek	0.351	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.539	0.849	0.714	0.746	0.526	0.740	0.750	0.964
		Left Tilted	0.196	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.253	0.603	0.452	0.360	0.395	0.459	0.568	0.538



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2	1+3+6	1+2+5	1+4	1+5	1+5+6	1+7	1+6+8
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE	LTE Band 7_LAT	Right Cheek	0.105	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.145	0.280	0.260	0.189	0.220	0.277	0.253	0.323
		Right Tilted	0.057	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.087	0.227	0.222	0.125	0.192	0.224	0.128	0.276
		Left Cheek	0.314	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.502	0.812	0.677	0.709	0.489	0.703	0.713	0.927
		Left Tilted	0.125	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.182	0.532	0.381	0.289	0.324	0.388	0.497	0.467
	LTE Band 12_LAT	Right Cheek	0.260	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.300	0.435	0.415	0.344	0.375	0.432	0.408	0.478
		Right Tilted	0.144	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.174	0.314	0.309	0.212	0.279	0.311	0.215	0.363
		Left Cheek	0.247	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.435	0.745	0.610	0.642	0.422	0.636	0.646	0.860
		Left Tilted	0.189	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.246	0.596	0.445	0.353	0.388	0.452	0.561	0.531
	LTE Band 13_LAT	Right Cheek	0.295	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.335	0.470	0.450	0.379	0.410	0.467	0.443	0.513
		Right Tilted	0.181	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.211	0.351	0.346	0.249	0.316	0.348	0.252	0.400
		Left Cheek	0.301	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.489	0.799	0.664	0.696	0.476	0.690	0.700	0.914
		Left Tilted	0.210	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.267	0.617	0.466	0.374	0.409	0.473	0.582	0.552
	LTE Band 25_LAT	Right Cheek	0.114	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.154	0.289	0.269	0.198	0.229	0.286	0.262	0.332
		Right Tilted	0.084	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.114	0.254	0.249	0.152	0.219	0.251	0.155	0.303
		Left Cheek	0.200	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.388	0.698	0.563	0.595	0.375	0.589	0.599	0.813
		Left Tilted	0.097	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.154	0.504	0.353	0.261	0.296	0.360	0.469	0.439
	LTE Band 26_LAT	Right Cheek	0.225	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.265	0.400	0.380	0.309	0.340	0.397	0.373	0.443
		Right Tilted	0.127	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.157	0.297	0.292	0.195	0.262	0.294	0.198	0.346
		Left Cheek	0.233	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.421	0.731	0.596	0.628	0.408	0.622	0.632	0.846
		Left Tilted	0.135	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.192	0.542	0.391	0.299	0.334	0.398	0.507	0.477
	LTE Band 30_LAT	Right Cheek	0.205	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.245	0.380	0.360	0.289	0.320	0.377	0.353	0.423
		Right Tilted	0.139	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.169	0.309	0.304	0.207	0.274	0.306	0.210	0.358
		Left Cheek	0.328	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.516	0.826	0.691	0.723	0.503	0.717	0.727	0.941
		Left Tilted	0.077	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.134	0.484	0.333	0.241	0.276	0.340	0.449	0.419
	LTE Band 41_LAT	Right Cheek	0.087	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.127	0.262	0.242	0.171	0.202	0.259	0.235	0.305
		Right Tilted	0.047	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.077	0.217	0.212	0.115	0.182	0.214	0.118	0.266
		Left Cheek	0.286	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.474	0.784	0.649	0.681	0.461	0.675	0.685	0.899
		Left Tilted	0.124	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.181	0.531	0.380	0.288	0.323	0.387	0.496	0.466
	LTE Band 66_LAT	Right Cheek	0.155	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.195	0.330	0.310	0.239	0.270	0.327	0.303	0.373
		Right Tilted	0.121	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.151	0.291	0.286	0.189	0.256	0.288	0.192	0.340
		Left Cheek	0.410	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.598	0.908	0.773	0.805	0.585	0.799	0.809	1.023
		Left Tilted	0.104	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.161	0.511	0.360	0.268	0.303	0.367	0.476	0.446
	LTE Band 71_LAT	Right Cheek	0.161	0.040	0.118	0.084	0.115	0.057	0.148	0.161	0.201	0.336	0.316	0.245	0.276	0.333	0.309	0.379
		Right Tilted	0.095	0.030	0.138	0.068	0.135	0.032	0.071	0.187	0.125	0.265	0.260	0.163	0.230	0.262	0.166	0.314
		Left Cheek	0.221	0.188	0.284	0.395	0.175	0.214	0.399	0.399	0.409	0.719	0.584	0.616	0.396	0.610	0.620	0.834
		Left Tilted	0.114	0.057	0.343	0.164	0.199	0.064	0.372	0.278	0.171	0.521	0.370	0.278	0.313	0.377	0.486	0.456


<Bluetooth Power with WiFi off>

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850_UAT	Right Cheek	1.207	0.055	1.262
		Right Tilted	1.242	0.031	1.273
		Left Cheek	0.948	0.228	1.176
		Left Tilted	1.017	0.062	1.079
	GSM1900_UAT	Right Cheek	1.241	0.055	1.296
		Right Tilted	1.294	0.031	1.325
		Left Cheek	0.674	0.228	0.902
		Left Tilted	1.090	0.062	1.152
WCDMA	WCDMA II_UAT	Right Cheek	1.017	0.055	1.072
		Right Tilted	1.324	0.031	1.355
		Left Cheek	0.760	0.228	0.988
		Left Tilted	1.026	0.062	1.088
	WCDMA IV_UAT	Right Cheek	0.962	0.055	1.017
		Right Tilted	1.310	0.031	1.341
		Left Cheek	0.756	0.228	0.984
		Left Tilted	1.007	0.062	1.069
	WCDMA V_UAT	Right Cheek	0.515	0.055	0.570
		Right Tilted	0.903	0.031	0.934
		Left Cheek	0.542	0.228	0.770
		Left Tilted	0.472	0.062	0.534
CDMA	CDMA BC0_UAT	Right Cheek	1.182	0.055	1.237
		Right Tilted	1.337	0.031	1.368
		Left Cheek	0.958	0.228	1.186
		Left Tilted	1.118	0.062	1.180
	CDMA BC1_UAT	Right Cheek	1.052	0.055	1.107
		Right Tilted	1.343	0.031	1.374
		Left Cheek	0.817	0.228	1.045
		Left Tilted	1.046	0.062	1.108
	CDMA BC10_UAT	Right Cheek	1.097	0.055	1.152
		Right Tilted	1.298	0.031	1.329
		Left Cheek	1.030	0.228	1.258
		Left Tilted	1.182	0.062	1.244



WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	LTE Band 7_UAT	Right Cheek	1.278	0.055	1.333
		Right Tilted	0.570	0.031	0.601
		Left Cheek	0.442	0.228	0.670
		Left Tilted	0.596	0.062	0.658
	LTE Band 12_UAT	Right Cheek	0.730	0.055	0.785
		Right Tilted	0.642	0.031	0.673
		Left Cheek	0.607	0.228	0.835
		Left Tilted	0.605	0.062	0.667
	LTE Band 13_UAT	Right Cheek	0.941	0.055	0.996
		Right Tilted	0.778	0.031	0.809
		Left Cheek	0.750	0.228	0.978
		Left Tilted	0.749	0.062	0.811
	LTE Band 25_UAT	Right Cheek	1.010	0.055	1.065
		Right Tilted	1.347	0.031	1.378
		Left Cheek	0.711	0.228	0.939
		Left Tilted	1.031	0.062	1.093
	LTE Band 26_UAT	Right Cheek	0.856	0.055	0.911
		Right Tilted	0.670	0.031	0.701
		Left Cheek	0.656	0.228	0.884
		Left Tilted	0.650	0.062	0.712
	LTE Band 30_UAT	Right Cheek	1.286	0.055	1.341
		Right Tilted	0.738	0.031	0.769
		Left Cheek	0.718	0.228	0.946
		Left Tilted	0.813	0.062	0.875
	LTE Band 41_UAT	Right Cheek	1.287	0.055	1.342
		Right Tilted	0.514	0.031	0.545
		Left Cheek	0.332	0.228	0.560
		Left Tilted	0.799	0.062	0.861
	LTE Band 66_UAT	Right Cheek	0.623	0.055	0.678
		Right Tilted	1.303	0.031	1.334
		Left Cheek	0.550	0.228	0.778
		Left Tilted	0.714	0.062	0.776
	LTE Band 71_UAT	Right Cheek	0.701	0.055	0.756
		Right Tilted	0.695	0.031	0.726
		Left Cheek	0.652	0.228	0.880
		Left Tilted	0.700	0.062	0.762

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850_LAT	Right Cheek	0.343	0.057	0.400
		Right Tilted	0.121	0.032	0.153
		Left Cheek	0.229	0.214	0.443
		Left Tilted	0.141	0.064	0.205
	GSM1900_LAT	Right Cheek	0.064	0.057	0.121
		Right Tilted	0.047	0.032	0.079
		Left Cheek	0.101	0.214	0.315
		Left Tilted	0.038	0.064	0.102
WCDMA	WCDMA II_LAT	Right Cheek	0.132	0.057	0.189
		Right Tilted	0.096	0.032	0.128
		Left Cheek	0.233	0.214	0.447
		Left Tilted	0.069	0.064	0.133
	WCDMA IV_LAT	Right Cheek	0.174	0.057	0.231
		Right Tilted	0.103	0.032	0.135
		Left Cheek	0.338	0.214	0.552
		Left Tilted	0.100	0.064	0.164
	WCDMA V_LAT	Right Cheek	0.270	0.057	0.327
		Right Tilted	0.141	0.032	0.173
		Left Cheek	0.221	0.214	0.435
		Left Tilted	0.132	0.064	0.196
CDMA	CDMA BC0_LAT	Right Cheek	0.448	0.057	0.505
		Right Tilted	0.200	0.032	0.232
		Left Cheek	0.309	0.214	0.523
		Left Tilted	0.209	0.064	0.273
	CDMA BC1_LAT	Right Cheek	0.193	0.057	0.250
		Right Tilted	0.126	0.032	0.158
		Left Cheek	0.406	0.214	0.620
		Left Tilted	0.147	0.064	0.211
	CDMA BC10_UAT	Right Cheek	0.346	0.057	0.403
		Right Tilted	0.168	0.032	0.200
		Left Cheek	0.351	0.214	0.565
		Left Tilted	0.196	0.064	0.260

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	LTE Band 7_LAT	Right Cheek	0.105	0.057	0.162
		Right Tilted	0.057	0.032	0.089
		Left Cheek	0.314	0.214	0.528
		Left Tilted	0.125	0.064	0.189
	LTE Band 12_LAT	Right Cheek	0.260	0.057	0.317
		Right Tilted	0.144	0.032	0.176
		Left Cheek	0.247	0.214	0.461
		Left Tilted	0.189	0.064	0.253
	LTE Band 13_LAT	Right Cheek	0.295	0.057	0.352
		Right Tilted	0.181	0.032	0.213
		Left Cheek	0.301	0.214	0.515
		Left Tilted	0.210	0.064	0.274
	LTE Band 25_LAT	Right Cheek	0.114	0.057	0.171
		Right Tilted	0.084	0.032	0.116
		Left Cheek	0.218	0.214	0.432
		Left Tilted	0.097	0.064	0.161
	LTE Band 26_LAT	Right Cheek	0.225	0.057	0.282
		Right Tilted	0.127	0.032	0.159
		Left Cheek	0.233	0.214	0.447
		Left Tilted	0.135	0.064	0.199
	LTE Band 30_LAT	Right Cheek	0.205	0.057	0.262
		Right Tilted	0.139	0.032	0.171
		Left Cheek	0.328	0.214	0.542
		Left Tilted	0.077	0.064	0.141
	LTE Band 41_LAT	Right Cheek	0.087	0.057	0.144
		Right Tilted	0.047	0.032	0.079
		Left Cheek	0.286	0.214	0.500
		Left Tilted	0.124	0.064	0.188
	LTE Band 66_LAT	Right Cheek	0.155	0.057	0.212
		Right Tilted	0.121	0.032	0.153
		Left Cheek	0.410	0.214	0.624
		Left Tilted	0.104	0.064	0.168
	LTE Band 71_LAT	Right Cheek	0.161	0.057	0.218
		Right Tilted	0.095	0.032	0.127
		Left Cheek	0.221	0.214	0.435
		Left Tilted	0.114	0.064	0.178

<Bluetooth Power with WWAN off>

Exposure Position	2	3	4	5	6	7	8	2+5 Summed 1g SAR (W/kg)	3+6 Summed 1g SAR (W/kg)	5+6 Summed 1g SAR (W/kg)	6+8 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5				
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
Right Cheek	0.167	0.498	0.283	0.434	0.057	0.425	0.581	0.601	0.555	0.491	0.638
Right Tilted	0.124	0.528	0.232	0.516	0.032	0.202	0.630	0.640	0.560	0.548	0.662
Left Cheek	0.787	1.070	1.340	0.724	0.214	1.297	1.219	1.511	1.284	0.938	1.433
Left Tilted	0.240	1.296	0.565	0.794	0.064	1.208	1.209	1.034	1.360	0.858	1.273

**14.2 Hotspot Exposure Conditions****<WWAN on with WiFi on and Bluetooth Power >**

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5								
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
GSM	GSM850_UAT	Front	0.509	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.765	0.772	0.936	0.766	0.680	0.736	0.763	0.967
		Back	0.516	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.899	0.905	1.106	0.842	0.723	0.827	0.865	0.915
		Left side	0.116								0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116
		Right side	0.243	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.396	0.326	0.540	0.606	0.387	0.413	0.360	0.638
		Top side	0.347	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.451	0.700	0.744	0.392	0.640	0.655	0.641	0.724
	GSM1900_UAT	Front	0.537	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.793	0.800	0.964	0.794	0.708	0.764	0.791	0.995
		Back	0.737	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.120	1.126	1.327	1.063	0.944	1.048	1.086	1.136
		Left side	0.212								0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212
		Right side	0.028	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.181	0.111	0.325	0.391	0.172	0.198	0.145	0.423
		Top side	1.176	0.104	0.338	0.045	0.293	0.015	0.294	0.362	1.280	1.529	1.573	1.221	1.469	1.484	1.470	1.553
WCDMA	WCDMA II_UAT	Front	0.593	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.849	0.856	1.020	0.850	0.764	0.820	0.847	1.051
		Back	0.757	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.140	1.146	1.347	1.083	0.964	1.068	1.106	1.156
		Left side	0.133								0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
		Right side	0.022	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.175	0.105	0.319	0.385	0.166	0.192	0.139	0.417
		Top side	1.105	0.104	0.338	0.045	0.293	0.015	0.294	0.362	1.209	1.458	1.502	1.150	1.398	1.413	1.399	1.482
	WCDMA IV_UAT	Front	0.229	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.485	0.492	0.656	0.486	0.400	0.456	0.483	0.687
		Back	0.477	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.860	0.866	1.067	0.803	0.684	0.788	0.826	0.876
		Left side	0.107								0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
		Right side	0.025	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.178	0.108	0.322	0.388	0.169	0.195	0.142	0.420
		Top side	0.586	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.690	0.939	0.983	0.631	0.879	0.894	0.880	0.963
	WCDMA V_UAT	Front	0.193	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.449	0.456	0.620	0.450	0.364	0.420	0.447	0.651
		Back	0.356	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.739	0.745	0.946	0.682	0.563	0.667	0.705	0.755
		Left side	0.029								0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
		Right side	0.087	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.240	0.170	0.384	0.450	0.231	0.257	0.204	0.482
		Top side	0.108	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.212	0.461	0.505	0.153	0.401	0.416	0.402	0.485
CDMA	CDMA BC0_UAT	Front	0.283	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.539	0.546	0.710	0.540	0.454	0.510	0.537	0.741
		Back	0.561	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.944	0.950	1.151	0.887	0.768	0.872	0.910	0.960
		Left side	0.036								0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
		Right side	0.195	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.348	0.278	0.492	0.558	0.339	0.365	0.312	0.590
		Top side	0.166	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.270	0.519	0.563	0.211	0.459	0.474	0.460	0.543
	CDMA BC1_UAT	Front	0.624	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.880	0.887	1.051	0.881	0.795	0.851	0.878	1.082
		Back	0.679	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.062	1.068	1.269	1.005	0.886	0.990	1.028	1.078
		Left side	0.352								0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352
		Right side	0.029	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.182	0.112	0.326	0.392	0.173	0.199	0.146	0.424
		Top side	1.147	0.104	0.338	0.045	0.293	0.015	0.294	0.362	1.251	1.500	1.544	1.192	1.440	1.455	1.441	1.524
	CDMA BC10_UAT	Front	0.492	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.748	0.755	0.919	0.749	0.663	0.719	0.746	0.950
		Back	0.215	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.598	0.604	0.805	0.541	0.422	0.526	0.564	0.614
		Left side	0.060								0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Right side	0.082	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.235	0.165	0.379	0.445	0.226	0.252	0.199	0.477
		Top side	0.251	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.355	0.604	0.648	0.296	0.544	0.559	0.545	0.628



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5								
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
LTE	LTE Band 7_UAT	Front	0.486	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.742	0.749	0.913	0.743	0.657	0.713	0.740	0.944
		Back	0.976	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.359	1.365	1.566	1.302	1.183	1.287	1.325	1.375
		Left side	0.622								0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
		Right side	0.032	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.185	0.115	0.329	0.395	0.176	0.202	0.149	0.427
		Top side	0.214	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.318	0.567	0.611	0.259	0.507	0.522	0.508	0.591
	LTE Band 12_UAT	Front	0.267	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.523	0.530	0.694	0.524	0.438	0.494	0.521	0.725
		Back	0.351	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.734	0.740	0.941	0.677	0.558	0.662	0.700	0.750
		Left side	0.169								0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169
		Right side	0.179	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.332	0.262	0.476	0.542	0.323	0.349	0.296	0.574
		Top side	0.134	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.238	0.487	0.531	0.179	0.427	0.442	0.428	0.511
	LTE Band 13_UAT	Front	0.348	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.604	0.611	0.775	0.605	0.519	0.575	0.602	0.806
		Back	0.436	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.819	0.825	1.026	0.762	0.643	0.747	0.785	0.835
		Left side	0.094								0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
		Right side	0.160	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.313	0.243	0.457	0.523	0.304	0.330	0.277	0.555
		Top side	0.177	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.281	0.530	0.574	0.222	0.470	0.485	0.471	0.554
	LTE Band 25_UAT	Front	0.586	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.842	0.849	1.013	0.843	0.757	0.813	0.840	1.044
		Back	0.662	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.045	1.051	1.252	0.988	0.869	0.973	1.011	1.061
		Left side	0.315								0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
		Right side	0.021	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.174	0.104	0.318	0.384	0.165	0.191	0.138	0.416
		Top side	1.196	0.104	0.338	0.045	0.293	0.015	0.294	0.362	1.300	1.549	1.593	1.241	1.489	1.504	1.490	1.573
	LTE Band 26_UAT	Front	0.358	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.614	0.621	0.785	0.615	0.529	0.585	0.612	0.816
		Back	0.383	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.766	0.772	0.973	0.709	0.590	0.694	0.732	0.782
		Left side	0.064								0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
		Right side	0.152	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.305	0.235	0.449	0.515	0.296	0.322	0.269	0.547
		Top side	0.209	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.313	0.562	0.606	0.254	0.502	0.517	0.503	0.586
	LTE Band 30_UAT	Front	0.349	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.605	0.612	0.776	0.606	0.520	0.576	0.603	0.807
		Back	0.560	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.943	0.949	1.150	0.886	0.767	0.871	0.909	0.959
		Left side	0.564								0.564	0.564	0.564	0.564	0.564	0.564	0.564	0.564
		Right side	0.047	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.200	0.130	0.344	0.410	0.191	0.217	0.164	0.442
		Top side	0.233	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.337	0.586	0.630	0.278	0.526	0.541	0.527	0.610
	LTE Band 41_UAT	Front	0.354	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.610	0.617	0.781	0.611	0.525	0.581	0.608	0.812
		Back	0.583	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.966	0.972	1.173	0.909	0.790	0.894	0.932	0.982
		Left side	0.458								0.458	0.458	0.458	0.458	0.458	0.458	0.458	0.458
		Right side	0.032	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.185	0.115	0.329	0.395	0.176	0.202	0.149	0.427
		Top side	0.197	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.301	0.550	0.594	0.242	0.490	0.505	0.491	0.574
	LTE Band 66_UAT	Front	0.304	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.560	0.567	0.731	0.561	0.475	0.531	0.558	0.762
		Back	0.760	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.143	1.149	1.350	1.086	0.967	1.071	1.109	1.159
		Left side	0.134								0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
		Right side	0.023	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.176	0.106	0.320	0.386	0.167	0.193	0.140	0.418
		Top side	0.722	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.826	1.075	1.119	0.767	1.015	1.030	1.016	1.099
	LTE Band 71_UAT	Front	0.282	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.538	0.545	0.709	0.539	0.453	0.509	0.536	0.740
		Back	0.324	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.707	0.713	0.914	0.650	0.531	0.635	0.673	0.723
		Left side	0.185								0.185	0.185	0.185	0.185	0.185	0.185	0.185	0.185
		Right side	0.161	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.314	0.244	0.458	0.524	0.305	0.331	0.278	0.556
		Top side	0.124	0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.228	0.477	0.521	0.169	0.417	0.432	0.418	0.501



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5									
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)									
GSM	GSM850_LAT	Front	0.563	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.819	0.826	0.990	0.820	0.734	0.790	0.817	1.021	
		Back	0.577	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.960	0.966	1.167	0.903	0.784	0.888	0.926	0.976	
		Left side	0.093									0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
		Right side	0.387	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.540	0.470	0.684	0.750	0.531	0.557	0.504	0.782	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	0.290									0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290
	GSM1900_LAT	Front	0.670	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.926	0.933	1.097	0.927	0.841	0.897	0.924	1.128	
		Back	0.718	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.101	1.107	1.308	1.044	0.925	1.029	1.067	1.117	
		Left side	0.099									0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099
		Right side	0.190	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.343	0.273	0.487	0.553	0.334	0.360	0.307	0.585	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	1.123									1.123	1.123	1.123	1.123	1.123	1.123	1.123	1.123
WCDMA	WCDMA II_LAT	Front	0.583	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.839	0.846	1.010	0.840	0.754	0.810	0.837	1.041	
		Back	0.653	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.036	1.042	1.243	0.979	0.860	0.964	1.002	1.052	
		Left side	0.162									0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
		Right side	0.112	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.265	0.195	0.409	0.475	0.256	0.282	0.229	0.507	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	1.145									1.145	1.145	1.145	1.145	1.145	1.145	1.145	1.145
	WCDMA IV_LAT	Front	0.751	0.256	0.207	0.257	0.171	0.056	0.254	0.402	1.007	1.014	1.178	1.008	0.922	0.978	1.005	1.209	
		Back	0.881	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.264	1.270	1.471	1.207	1.088	1.192	1.230	1.280	
		Left side	0.155									0.155	0.155	0.155	0.155	0.155	0.155	0.155	0.155
		Right side	0.101	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.254	0.184	0.398	0.464	0.245	0.271	0.218	0.496	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	1.169									1.169	1.169	1.169	1.169	1.169	1.169	1.169	1.169
	WCDMA V_LAT	Front	0.363	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.619	0.626	0.790	0.620	0.534	0.590	0.617	0.821	
		Back	0.273	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.656	0.662	0.863	0.599	0.480	0.584	0.622	0.672	
		Left side	0.147									0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
		Right side	0.238	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.391	0.321	0.535	0.601	0.382	0.408	0.355	0.633	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	0.120									0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
CDMA	CDMA BC0_LAT	Front	0.406	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.662	0.669	0.833	0.663	0.577	0.633	0.660	0.864	
		Back	0.384	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.767	0.773	0.974	0.710	0.591	0.695	0.733	0.783	
		Left side	0.351									0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351
		Right side	0.474	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.627	0.557	0.771	0.837	0.618	0.644	0.591	0.869	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	0.168									0.168	0.168	0.168	0.168	0.168	0.168	0.168	0.168
	CDMA BC1_LAT	Front	0.739	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.995	1.002	1.166	0.996	0.910	0.966	0.993	1.197	
		Back	0.760	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.143	1.149	1.350	1.086	0.967	1.071	1.109	1.159	
		Left side	0.092									0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
		Right side	0.193	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.346	0.276	0.490	0.556	0.337	0.363	0.310	0.588	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	1.103									1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.103
	CDMA BC10_LAT	Front	0.424	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.680	0.687	0.851	0.681	0.595	0.651	0.678	0.882	
		Back	0.382	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.765	0.771	0.972	0.708	0.589	0.693	0.731	0.781	
		Left side	0.325									0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325
		Right side	0.480	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.633	0.563	0.777	0.843	0.624	0.650	0.597	0.875	
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377	
		Bottom side	0.172									0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5								
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
LTE	LTE Band 7_LAT	Front	0.472	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.728	0.735	0.899	0.729	0.643	0.699	0.726	0.930
		Back	0.290	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.673	0.679	0.880	0.616	0.497	0.601	0.639	0.689
		Left side	0.177								0.177	0.177	0.177	0.177	0.177	0.177	0.177	0.177
		Right side	0.183	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.336	0.266	0.480	0.546	0.327	0.353	0.300	0.578
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.165								0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
	LTE Band 12_LAT	Front	0.288	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.544	0.551	0.715	0.545	0.459	0.515	0.542	0.746
		Back	0.357	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.740	0.746	0.947	0.683	0.564	0.668	0.706	0.756
		Left side	0.333								0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
		Right side	0.307	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.460	0.390	0.604	0.670	0.451	0.477	0.424	0.702
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.080								0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
	LTE Band 13_LAT	Front	0.405	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.661	0.668	0.832	0.662	0.576	0.632	0.659	0.863
		Back	0.375	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.758	0.764	0.965	0.701	0.582	0.686	0.724	0.774
		Left side	0.338								0.338	0.338	0.338	0.338	0.338	0.338	0.338	0.338
		Right side	0.469	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.622	0.552	0.766	0.832	0.613	0.639	0.586	0.864
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.108								0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108
	LTE Band 25_LAT	Front	0.688	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.944	0.951	1.115	0.945	0.859	0.915	0.942	1.146
		Back	0.735	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.118	1.124	1.325	1.061	0.942	1.046	1.084	1.134
		Left side	0.060								0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
		Right side	0.179	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.332	0.262	0.476	0.542	0.323	0.349	0.296	0.574
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	1.189								1.189	1.189	1.189	1.189	1.189	1.189	1.189	1.189
	LTE Band 26_LAT	Front	0.345	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.601	0.608	0.772	0.602	0.516	0.572	0.599	0.803
		Back	0.349	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.732	0.738	0.939	0.675	0.556	0.660	0.698	0.748
		Left side	0.269								0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269
		Right side	0.376	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.529	0.459	0.673	0.739	0.520	0.546	0.493	0.771
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.140								0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
	LTE Band 30_LAT	Front	0.430	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.686	0.693	0.857	0.687	0.601	0.657	0.684	0.888
		Back	0.363	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.746	0.752	0.953	0.689	0.570	0.674	0.712	0.762
		Left side	0.143								0.143	0.143	0.143	0.143	0.143	0.143	0.143	0.143
		Right side	0.130	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.283	0.213	0.427	0.493	0.274	0.300	0.247	0.525
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.204								0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5								
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
LTE	LTE Band 41_LAT	Front	0.322	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.578	0.585	0.749	0.579	0.493	0.549	0.576	0.780
		Back	0.262	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.645	0.651	0.852	0.588	0.469	0.573	0.611	0.661
		Left side	0.130								0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
		Right side	0.145	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.298	0.228	0.442	0.508	0.289	0.315	0.262	0.540
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.146								0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146
	LTE Band 66_LAT	Front	0.657	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.913	0.920	1.084	0.914	0.828	0.884	0.911	1.115
		Back	0.844	0.383	0.285	0.326	0.207	0.104	0.349	0.295	1.227	1.233	1.434	1.170	1.051	1.155	1.193	1.243
		Left side	0.139								0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
		Right side	0.085	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.238	0.168	0.382	0.448	0.229	0.255	0.202	0.480
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	1.192								1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192
	LTE Band 71_LAT	Front	0.314	0.256	0.207	0.257	0.171	0.056	0.254	0.402	0.570	0.577	0.741	0.571	0.485	0.541	0.568	0.772
		Back	0.298	0.383	0.285	0.326	0.207	0.104	0.349	0.295	0.681	0.687	0.888	0.624	0.505	0.609	0.647	0.697
		Left side	0.339								0.339	0.339	0.339	0.339	0.339	0.339	0.339	0.339
		Right side	0.314	0.153	0.057	0.363	0.144	0.026	0.117	0.369	0.467	0.397	0.611	0.677	0.458	0.484	0.431	0.709
		Top side		0.104	0.338	0.045	0.293	0.015	0.294	0.362	0.104	0.353	0.397	0.045	0.293	0.308	0.294	0.377
		Bottom side	0.086								0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086

<Bluetooth Power with WiFi off>

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850_UAT	Front	0.509	0.054	0.563
		Back	0.516	0.111	0.627
		Left side	0.116		0.116
		Right side	0.243	0.025	0.268
		Top side	0.347	0.014	0.361
	GSM1900_UAT	Front	0.537	0.054	0.591
		Back	0.737	0.111	0.848
		Left side	0.212		0.212
		Right side	0.028	0.025	0.053
		Top side	1.176	0.014	1.190
WCDMA	WCDMA II_UAT	Front	0.665	0.054	0.719
		Back	0.849	0.111	0.960
		Left side	0.149		0.149
		Right side	0.025	0.025	0.050
		Top side	1.240	0.014	1.254
	WCDMA IV_UAT	Front	0.229	0.054	0.283
		Back	0.477	0.111	0.588
		Left side	0.107		0.107
		Right side	0.025	0.025	0.050
		Top side	0.586	0.014	0.600
	WCDMA V_UAT	Front	0.193	0.054	0.247
		Back	0.356	0.111	0.467
		Left side	0.029		0.029
		Right side	0.087	0.025	0.112
		Top side	0.108	0.014	0.122
CDMA	CDMA BC0_UAT	Front	0.283	0.054	0.337
		Back	0.561	0.111	0.672
		Left side	0.036		0.036
		Right side	0.195	0.025	0.220
		Top side	0.166	0.014	0.180
	CDMA BC1_UAT	Front	0.700	0.054	0.754
		Back	0.762	0.111	0.873
		Left side	0.395		0.395
		Right side	0.033	0.025	0.058
		Top side	1.287	0.014	1.301
	CDMA BC10_UAT	Front	0.492	0.054	0.546
		Back	0.215	0.111	0.326
		Left side	0.060		0.060
		Right side	0.082	0.025	0.107
		Top side	0.251	0.014	0.265



WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	LTE Band 7_UAT	Front	0.486	0.054	0.540
		Back	0.976	0.111	1.087
		Left side	0.622		0.622
		Right side	0.032	0.025	0.057
		Top side	0.214	0.014	0.228
	LTE Band 12_UAT	Front	0.267	0.054	0.321
		Back	0.351	0.111	0.462
		Left side	0.169		0.169
		Right side	0.179	0.025	0.204
		Top side	0.134	0.014	0.148
	LTE Band 13_UAT	Front	0.348	0.054	0.402
		Back	0.436	0.111	0.547
		Left side	0.094		0.094
		Right side	0.160	0.025	0.185
		Top side	0.177	0.014	0.191
	LTE Band 25_UAT	Front	0.657	0.054	0.711
		Back	0.743	0.111	0.854
		Left side	0.354		0.354
		Right side	0.024	0.025	0.049
		Top side	1.342	0.014	1.356
	LTE Band 26_UAT	Front	0.358	0.054	0.412
		Back	0.383	0.111	0.494
		Left side	0.064		0.064
		Right side	0.152	0.025	0.177
		Top side	0.209	0.014	0.223
	LTE Band 30_UAT	Front	0.349	0.054	0.403
		Back	0.560	0.111	0.671
		Left side	0.564		0.564
		Right side	0.047	0.025	0.072
		Top side	0.233	0.014	0.247
	LTE Band 41_UAT	Front	0.354	0.054	0.408
		Back	0.583	0.111	0.694
		Left side	0.458		0.458
		Right side	0.032	0.025	0.057
		Top side	0.197	0.014	0.211
	LTE Band 66_UAT	Front	0.304	0.054	0.358
		Back	0.760	0.111	0.871
		Left side	0.134		0.134
		Right side	0.023	0.025	0.048
		Top side	0.722	0.014	0.736
	LTE Band 71_UAT	Front	0.282	0.054	0.336
		Back	0.324	0.111	0.435
		Left side	0.185		0.185
		Right side	0.161	0.025	0.186
		Top side	0.124	0.014	0.138

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850_LAT	Front	0.563	0.056	0.619
		Back	0.577	0.104	0.681
		Left side	0.093		0.093
		Right side	0.387	0.026	0.413
		Top side		0.015	0.015
		Bottom side	0.290		0.290
	GSM1900_LAT	Front	0.670	0.056	0.726
		Back	0.718	0.104	0.822
		Left side	0.099		0.099
		Right side	0.190	0.026	0.216
		Top side		0.015	0.015
		Bottom side	1.123		1.123
WCDMA	WCDMA II_LAT	Front	0.654	0.056	0.710
		Back	0.733	0.104	0.837
		Left side	0.182		0.182
		Right side	0.126	0.026	0.152
		Top side		0.015	0.015
		Bottom side	1.285		1.285
	WCDMA IV_LAT	Front	0.843	0.056	0.899
		Back	0.988	0.104	1.092
		Left side	0.174		0.174
		Right side	0.113	0.026	0.139
		Top side		0.015	0.015
		Bottom side	1.311		1.311
	WCDMA V_LAT	Front	0.363	0.056	0.419
		Back	0.273	0.104	0.377
		Left side	0.147		0.147
		Right side	0.238	0.026	0.264
		Top side		0.015	0.015
		Bottom side	0.120		0.120
CDMA	CDMA BC0_LAT	Front	0.406	0.056	0.462
		Back	0.384	0.104	0.488
		Left side	0.351		0.351
		Right side	0.474	0.026	0.500
		Top side		0.015	0.015
		Bottom side	0.168		0.168
	CDMA BC1_LAT	Front	0.829	0.056	0.885
		Back	0.852	0.104	0.956
		Left side	0.103		0.103
		Right side	0.217	0.026	0.243
		Top side		0.015	0.015
		Bottom side	1.237		1.237
	CDMA BC10_UAT	Front	0.424	0.056	0.480
		Back	0.382	0.104	0.486
		Left side	0.325		0.325
		Right side	0.480	0.026	0.506
		Top side		0.015	0.015
		Bottom side	0.172		0.172



WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	LTE Band 7_LAT	Front	0.472	0.056	0.528
		Back	0.290	0.104	0.394
		Left side	0.177		0.177
		Right side	0.183	0.026	0.209
		Top side		0.015	0.015
		Bottom side	0.165		0.165
	LTE Band 12_LAT	Front	0.288	0.056	0.344
		Back	0.357	0.104	0.461
		Left side	0.333		0.333
		Right side	0.307	0.026	0.333
		Top side		0.015	0.015
		Bottom side	0.080		0.080
	LTE Band 13_LAT	Front	0.405	0.056	0.461
		Back	0.375	0.104	0.479
		Left side	0.338		0.338
		Right side	0.469	0.026	0.495
		Top side		0.015	0.015
		Bottom side	0.108		0.108
	LTE Band 25_LAT	Front	0.772	0.056	0.828
		Back	0.825	0.104	0.929
		Left side	0.067		0.067
		Right side	0.201	0.026	0.227
		Top side		0.015	0.015
		Bottom side	1.334		1.334
	LTE Band 26_LAT	Front	0.345	0.056	0.401
		Back	0.349	0.104	0.453
		Left side	0.269		0.269
		Right side	0.376	0.026	0.402
		Top side		0.015	0.015
		Bottom side	0.140		0.140
	LTE Band 30_LAT	Front	0.430	0.056	0.486
		Back	0.363	0.104	0.467
		Left side	0.143		0.143
		Right side	0.130	0.026	0.156
		Top side		0.015	0.015
		Bottom side	0.204		0.204

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	LTE Band 41_LAT	Front	0.322	0.056	0.378
		Back	0.262	0.104	0.366
		Left side	0.130		0.130
		Right side	0.145	0.026	0.171
		Top side		0.015	0.015
		Bottom side	0.146		0.146
	LTE Band 66_LAT	Front	0.737	0.056	0.793
		Back	0.947	0.104	1.051
		Left side	0.156		0.156
		Right side	0.096	0.026	0.122
		Top side		0.015	0.015
		Bottom side	1.338		1.338
	LTE Band 71_LAT	Front	0.314	0.056	0.370
		Back	0.298	0.104	0.402
		Left side	0.339		0.339
		Right side	0.314	0.026	0.340
		Top side		0.015	0.015
		Bottom side	0.086		0.086

<Bluetooth Power with WWAN off>

Exposure Position	2	3	4	5	6	2+3 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)	3+6 Summed 1g SAR (W/kg)	5+6 Summed 1g SAR (W/kg)	4+5+6 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5					
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Front	0.236	0.198	0.257	0.171	0.056	0.434	0.407	0.254	0.227	0.484
Back	0.383	0.285	0.326	0.207	0.104	0.668	0.590	0.389	0.311	0.637
Right side	0.141	0.055	0.363	0.144	0.026	0.196	0.285	0.081	0.170	0.533
Top side	0.095	0.338	0.045	0.293	0.015	0.433	0.388	0.353	0.308	0.353

**14.3 Body-Worn Accessory Exposure Conditions****<WWAN on with WiFi on and Bluetooth Power >**

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2	1+3+6	1+2+5	1+4	1+5	1+5+6	1+7	1+6+8	SPLSR	Case No
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM	GSM850_UAT	Front	0.509	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.765	0.772	0.943	0.767	0.687	0.743	0.763	0.951		
		Back	0.516	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.899	0.905	1.113	0.930	0.730	0.834	0.865	0.909		
	GSM1900_UAT	Front	0.537	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.793	0.800	0.971	0.795	0.715	0.771	0.791	0.979		
		Back	0.737	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.120	1.126	1.334	1.151	0.951	1.055	1.086	1.130		
WCDMA	WCDMA II_UAT	Front	0.748	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.004	1.011	1.182	1.006	0.926	0.982	1.002	1.190		
		Back	0.851	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.234	1.240	1.448	1.265	1.065	1.169	1.200	1.244		
	WCDMA IV_UAT	Front	0.229	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.485	0.492	0.663	0.487	0.407	0.463	0.483	0.671		
		Back	0.595	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.978	0.984	1.192	1.009	0.809	0.913	0.944	0.988		
	WCDMA V_UAT	Front	0.193	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.449	0.456	0.627	0.451	0.371	0.427	0.447	0.635		
		Back	0.356	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.739	0.745	0.953	0.770	0.570	0.674	0.705	0.749		
CDMA	CDMA BC0_UAT	Front	0.510	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.766	0.773	0.944	0.768	0.688	0.744	0.764	0.952		
		Back	0.233	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.616	0.622	0.830	0.647	0.447	0.551	0.582	0.626		
	CDMA BC1_UAT	Front	0.924	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.180	1.187	1.358	1.182	1.102	1.158	1.178	1.366		
		Back	0.943	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.326	1.332	1.540	1.357	1.157	1.261	1.292	1.336		
	CDMA BC10_UAT	Front	0.463	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.719	0.726	0.897	0.721	0.641	0.697	0.717	0.905		
		Back	0.231	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.614	0.620	0.828	0.645	0.445	0.549	0.580	0.624		
LTE	LTE Band 7_UAT	Front	0.486	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.742	0.749	0.920	0.744	0.664	0.720	0.740	0.928		
		Back	0.976	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.359	1.365	1.573	1.390	1.190	1.294	1.325	1.369		
	LTE Band 12_UAT	Front	0.267	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.523	0.530	0.701	0.525	0.445	0.501	0.521	0.709		
		Back	0.351	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.734	0.740	0.948	0.765	0.565	0.669	0.700	0.744		
	LTE Band 13_UAT	Front	0.348	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.604	0.611	0.782	0.606	0.526	0.582	0.602	0.790		
		Back	0.436	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.819	0.825	1.033	0.850	0.650	0.754	0.785	0.829		
	LTE Band 25_UAT	Front	0.943	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.199	1.206	1.377	1.201	1.121	1.177	1.197	1.385		
		Back	1.086	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.469	1.475	1.683	1.500	1.300	1.404	1.435	1.479	0.03	Case 1
	LTE Band 26_UAT	Front	0.358	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.614	0.621	0.792	0.616	0.536	0.592	0.612	0.800		
		Back	0.383	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.766	0.772	0.980	0.797	0.597	0.701	0.732	0.776		
	LTE Band 30_UAT	Front	0.349	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.605	0.612	0.783	0.607	0.527	0.583	0.603	0.791		
		Back	0.560	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.943	0.949	1.157	0.974	0.774	0.878	0.909	0.953		
	LTE Band 41_UAT	Front	0.354	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.610	0.617	0.788	0.612	0.532	0.588	0.608	0.796		
		Back	0.583	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.966	0.972	1.180	0.997	0.797	0.901	0.932	0.976		
	LTE Band 66_UAT	Front	0.304	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.560	0.567	0.738	0.562	0.482	0.538	0.558	0.746		
		Back	0.760	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.143	1.149	1.357	1.174	0.974	1.078	1.109	1.153		
	LTE Band 71_UAT	Front	0.282	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.538	0.545	0.716	0.540	0.460	0.516	0.536	0.724		
		Back	0.324	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.707	0.713	0.921	0.738	0.538	0.642	0.673	0.717		



FCC SAR TEST REPORT

Report No. : FA820502-02

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)	SPLSR	Case No
			WWAN	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5	2.4GHz WLAN Ant 4+5	5GHz WLAN Ant 4+5	1+2 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+2+5 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+5+6 Summed 1g SAR (W/kg)	1+7 Summed 1g SAR (W/kg)	1+6+8 Summed 1g SAR (W/kg)		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM	GSM850_LAT	Front	0.563	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.819	0.826	0.997	0.821	0.741	0.797	0.817	1.005		
		Back	0.577	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.960	0.966	1.174	0.991	0.791	0.895	0.926	0.970		
	GSM1900_LAT	Front	0.670	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.926	0.933	1.104	0.928	0.848	0.904	0.924	1.112		
		Back	0.746	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.129	1.135	1.343	1.160	0.960	1.064	1.095	1.139		
WCDMA	WCDMA II_LAT	Front	0.743	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.999	1.006	1.177	1.001	0.921	0.977	0.997	1.185		
		Back	1.109	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.492	1.498	1.706	1.523	1.323	1.427	1.458	1.502	0.02	Case 2
	WCDMA IV_LAT	Front	0.954	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.210	1.217	1.388	1.212	1.132	1.188	1.208	1.396		
		Back	1.122	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.505	1.511	1.719	1.536	1.336	1.440	1.471	1.515	0.02	Case 3
	WCDMA V_LAT	Front	0.363	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.619	0.626	0.797	0.621	0.541	0.597	0.617	0.805		
		Back	0.273	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.656	0.662	0.870	0.687	0.487	0.591	0.622	0.666		
CDMA	CDMA BC0_LAT	Front	0.440	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.696	0.703	0.874	0.698	0.618	0.674	0.694	0.882		
		Back	0.556	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.939	0.945	1.153	0.970	0.770	0.874	0.905	0.949		
	CDMA BC1_LAT	Front	1.119	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.375	1.382	1.553	1.377	1.297	1.353	1.373	1.561		
		Back	1.179	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.562	1.568	1.776	1.593	1.393	1.497	1.528	1.572	0.02	Case 4
	CDMA BC10_LAT	Front	0.404	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.660	0.667	0.838	0.662	0.582	0.638	0.658	0.846		
		Back	0.400	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.783	0.789	0.997	0.814	0.614	0.718	0.749	0.793		
LTE	LTE Band 7_LAT	Front	0.472	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.728	0.735	0.906	0.730	0.650	0.706	0.726	0.914		
		Back	0.290	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.673	0.679	0.887	0.704	0.504	0.608	0.639	0.683		
	LTE Band 12_LAT	Front	0.288	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.544	0.551	0.722	0.546	0.466	0.522	0.542	0.730		
		Back	0.357	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.740	0.746	0.954	0.771	0.571	0.675	0.706	0.750		
	LTE Band 13_LAT	Front	0.405	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.661	0.668	0.839	0.663	0.583	0.639	0.659	0.847		
		Back	0.375	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.758	0.764	0.972	0.789	0.589	0.693	0.724	0.768		
	LTE Band 25_LAT	Front	1.008	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.264	1.271	1.442	1.266	1.186	1.242	1.262	1.450		
		Back	1.054	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.437	1.443	1.651	1.468	1.268	1.372	1.403	1.447	0.02	Case 5
	LTE Band 26_LAT	Front	0.345	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.601	0.608	0.779	0.603	0.523	0.579	0.599	0.787		
		Back	0.349	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.732	0.738	0.946	0.763	0.563	0.667	0.698	0.742		
	LTE Band 30_LAT	Front	0.430	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.686	0.693	0.864	0.688	0.608	0.664	0.684	0.872		
		Back	0.363	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.746	0.752	0.960	0.777	0.577	0.681	0.712	0.756		
	LTE Band 41_LAT	Front	0.322	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.578	0.585	0.756	0.580	0.500	0.556	0.576	0.764		
		Back	0.262	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.645	0.651	0.859	0.676	0.476	0.580	0.611	0.655		
	LTE Band 66_LAT	Front	0.938	0.256	0.207	0.258	0.178	0.056	0.254	0.386	1.194	1.201	1.372	1.196	1.116	1.172	1.192	1.380		
		Back	1.188	0.383	0.285	0.414	0.214	0.104	0.349	0.289	1.571	1.577	1.785	1.602	1.402	1.506	1.537	1.581	0.02	Case 6
	LTE Band 71_LAT	Front	0.314	0.256	0.207	0.258	0.178	0.056	0.254	0.386	0.570	0.577	0.748	0.572	0.492	0.548	0.568	0.756		
		Back	0.298	0.383	0.285	0.414	0.214	0.104	0.349	0.289	0.681	0.687	0.895	0.712	0.512	0.616	0.647	0.691		


<Bluetooth Power with WiFi off>

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850_UAT	Front	0.509	0.054	0.563
		Back	0.516	0.111	0.627
	GSM1900_UAT	Front	0.537	0.054	0.591
		Back	0.737	0.111	0.848
WCDMA	WCDMA II_UAT	Front	0.748	0.054	0.802
		Back	0.851	0.111	0.962
	WCDMA IV_UAT	Front	0.229	0.054	0.283
		Back	0.595	0.111	0.706
	WCDMA V_UAT	Front	0.193	0.054	0.247
		Back	0.356	0.111	0.467
CDMA	CDMA BC0_UAT	Front	0.510	0.054	0.564
		Back	0.233	0.111	0.344
	CDMA BC1_UAT	Front	1.152	0.054	1.206
		Back	1.192	0.111	1.303
	CDMA BC10_UAT	Front	0.463	0.054	0.517
		Back	0.231	0.111	0.342
LTE	LTE Band 7_UAT	Front	0.486	0.054	0.540
		Back	0.976	0.111	1.087
	LTE Band 12_UAT	Front	0.267	0.054	0.321
		Back	0.351	0.111	0.462
	LTE Band 13_UAT	Front	0.348	0.054	0.402
		Back	0.436	0.111	0.547
	LTE Band 25_UAT	Front	0.943	0.054	0.997
		Back	1.086	0.111	1.197
	LTE Band 26_UAT	Front	0.358	0.054	0.412
		Back	0.383	0.111	0.494
	LTE Band 30_UAT	Front	0.349	0.054	0.403
		Back	0.560	0.111	0.671
	LTE Band 41_UAT	Front	0.354	0.054	0.408
		Back	0.583	0.111	0.694
	LTE Band 66_UAT	Front	0.304	0.054	0.358
		Back	0.760	0.111	0.871
	LTE Band 71_UAT	Front	0.282	0.054	0.336
		Back	0.324	0.111	0.435

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850_LAT	Front	0.563	0.056	0.619
		Back	0.577	0.104	0.681
	GSM1900_LAT	Front	0.670	0.056	0.726
		Back	0.746	0.104	0.850
WCDMA	WCDMA II_LAT	Front	0.743	0.056	0.799
		Back	1.109	0.104	1.213
	WCDMA IV_LAT	Front	0.954	0.056	1.010
		Back	1.122	0.104	1.226
	WCDMA V_LAT	Front	0.363	0.056	0.419
		Back	0.273	0.104	0.377
CDMA	CDMA BC0_LAT	Front	0.440	0.056	0.496
		Back	0.556	0.104	0.660
	CDMA BC1_LAT	Front	1.119	0.056	1.175
		Back	1.179	0.104	1.283
	CDMA BC10_UAT	Front	0.404	0.056	0.460
		Back	0.400	0.104	0.504
LTE	LTE Band 7_LAT	Front	0.472	0.056	0.528
		Back	0.290	0.104	0.394
	LTE Band 12_LAT	Front	0.288	0.056	0.344
		Back	0.357	0.104	0.461
	LTE Band 13_LAT	Front	0.405	0.056	0.461
		Back	0.375	0.104	0.479
	LTE Band 25_LAT	Front	1.008	0.056	1.064
		Back	1.054	0.104	1.158
	LTE Band 26_LAT	Front	0.345	0.056	0.401
		Back	0.349	0.104	0.453
	LTE Band 30_LAT	Front	0.430	0.056	0.486
		Back	0.363	0.104	0.467
	LTE Band 41_LAT	Front	0.322	0.056	0.378
		Back	0.262	0.104	0.366
	LTE Band 66_LAT	Front	0.938	0.056	0.994
		Back	1.188	0.104	1.292
	LTE Band 71_LAT	Front	0.314	0.056	0.370
		Back	0.298	0.104	0.402

<Bluetooth Power with WWAN off>

Exposure Position	2	3	4	5	6	2+3 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)	3+6 Summed 1g SAR (W/kg)	5+6 Summed 1g SAR (W/kg)	4+5+6 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 5	2.4GHz WLAN Ant 4	5GHz WLAN Ant 5	5GHz WLAN Ant 4	Bluetooth Ant 5					
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
Front	0.236	0.198	0.258	0.178	0.056	0.434	0.414	0.254	0.234	0.492
Back	0.383	0.285	0.414	0.214	0.104	0.668	0.597	0.389	0.318	0.732



14.4 Product Specific Exposure Conditions

<WWAN on with WiFi on and Bluetooth Power>

WWAN Band		Exposure Position	1	4	5	1+4+5 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 4 1g SAR (W/kg)	
WCDMA	WCDMA II_UAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side	2.620	0.150	1.084	3.854
		Bottom side				
LTE	LTE 25_UAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side	2.428	0.150	1.084	3.662
		Bottom side				

WWAN Band		Exposure Position	1	4	5	1+4+5 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	5GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 4 1g SAR (W/kg)	
WCDMA	WCDMA II_LAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side		0.150	1.084	1.234
		Bottom side	1.479			1.479
	WCDMA IV_LAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side		0.150	1.084	1.234
		Bottom side	0.904			0.904
CDMA	CDMA BC1_LAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side		0.150	1.084	1.234
		Bottom side	2.652			2.652
LTE	LTE 25_LAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side		0.150	1.084	1.234
		Bottom side	1.466			1.466
	LTE Band 66_LAT	Front		1.144	0.712	1.856
		Back		1.661	0.734	2.395
		Left side				
		Right side		0.802	0.538	1.340
		Top side		0.150	1.084	1.234
		Bottom side	0.885			0.885



<Bluetooth Power with WiFi off>

WWAN Band		Exposure Position	1	6	1+6 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	1g SAR (W/kg)	
WCDMA	WCDMA II_UAT	Front			
		Back			
		Left side			
		Right side			
		Top side	2.620		2.620
		Bottom side			
CDMA	CDMA BC1_UAT	Front			
		Back			
		Left side			
		Right side			
		Top side	3.482		3.482
		Bottom side			
LTE	LTE 25_UAT	Front			
		Back			
		Left side			
		Right side			
		Top side			
		Bottom side	2.428		2.428

WWAN Band		Exposure Position	1	6	1+4+5 Summed 1g SAR (W/kg)
			WWAN	Bluetooth Ant 5	
			1g SAR (W/kg)	Estimated 1g SAR (W/kg)	
WCDMA	WCDMA II	Front			
		Back			
		Left side			
		Right side			
		Top side			
		Bottom side	1.479		1.479
	WCDMA IV	Front			
		Back			
		Left side			
		Right side			
		Top side			
		Bottom side	0.904		0.904
CDMA	CDMA BC1	Front			
		Back			
		Left side			
		Right side			
		Top side	3.482		3.482
		Bottom side			
LTE	LTE 25	Front			
		Back			
		Left side			
		Right side			
		Top side			
		Bottom side	2.428		2.428
	LTE Band 66	Front			
		Back			
		Left side			
		Right side			
		Top side			
		Bottom side	0.885		0.885

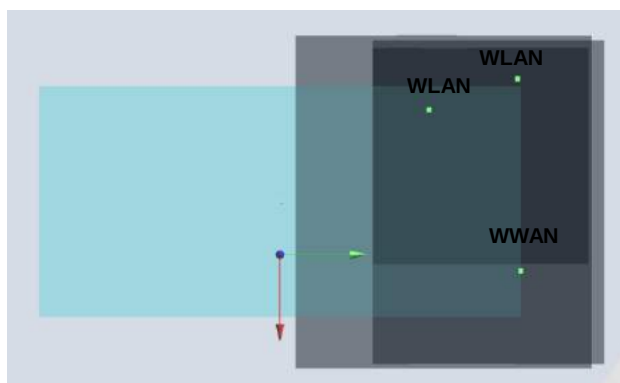
<Bluetooth Power with WWAN off>

Exposure Position	4	5	4+5 Summed 1g SAR (W/kg)
	5GHz WLAN Ant 5	5GHz WLAN Ant 4	
	1g SAR (W/kg)	1g SAR (W/kg)	
Front	1.144	0.712	1.856
Back	1.661	0.734	2.395
Left side			
Right side	0.802	0.538	1.340
Top side	0.150	1.084	1.234

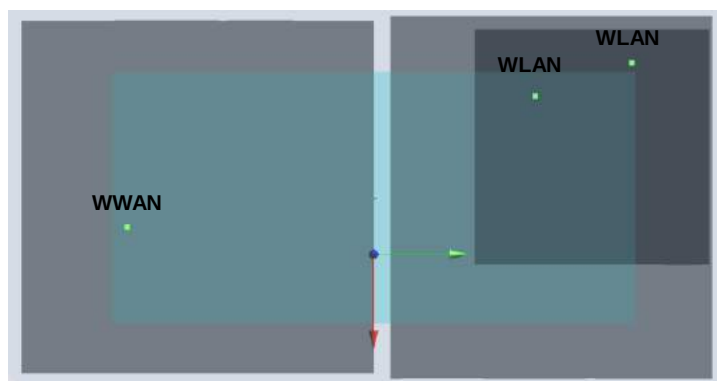
14.5 SPLSR Evaluation and Analysis
General Note:

1. $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$. If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary

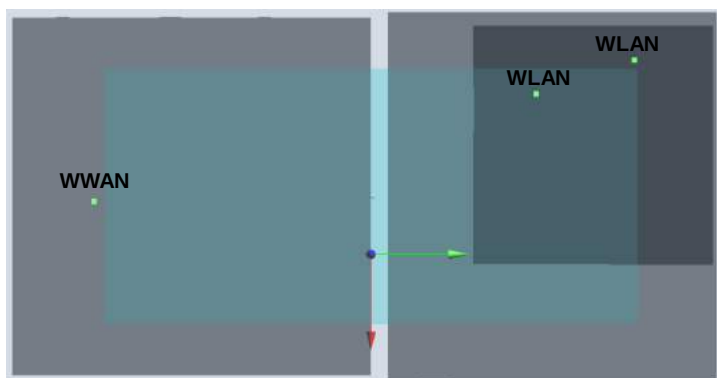
	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 1	LTE Band 25_UAT	Back	1.086	10mm	28.95	74.8	-1.55	66.4	1.47	0.03	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				
	LTE Band 25_UAT	Back	1.086	10mm	28.95	74.8	-1.55	67.3	1.30	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	WLAN2.4GHz_Ant 5	Back	0.383	10mm	-31.94	48.2	-1.73	29.5	0.60	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				



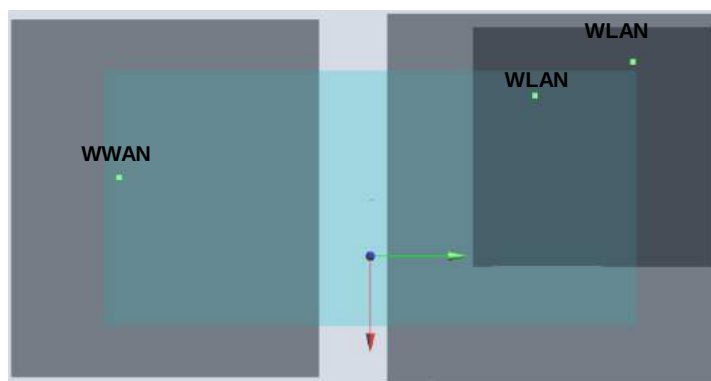
	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 2	WCDMA II_LAT	Back	1.109	10mm	4.23	-81.51	-1.87	134.7	1.49	0.01	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				
	WCDMA II_LAT	Back	1.109	10mm	4.23	-81.51	-1.87	164.1	1.32	0.01	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	WLAN2.4GHz_Ant 5	Back	0.383	10mm	-31.94	48.2	-1.73	29.5	0.60	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				



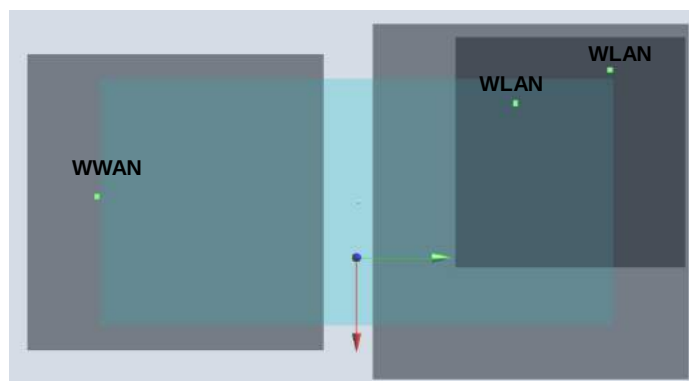
	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 3	WCDMA IV_LAT	Back	1.122	10mm	1.51	-81.01	-1.88	133.5	1.51	0.01	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				
	WCDMA IV_LAT	Back	1.122	10mm	1.51	-81.01	-1.88	163.0	1.34	0.01	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	WLAN2.4GHz_Ant 5	Back	0.383	10mm	-31.94	48.2	-1.73	29.5	0.60	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				



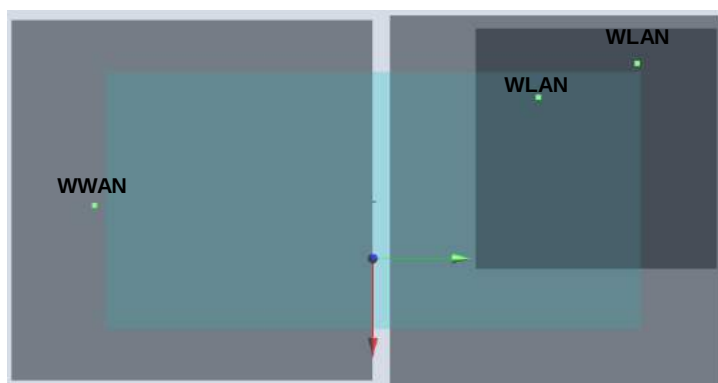
	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 4	CDMA BC1_LAT	Back	1.179	10mm	-5.4	-74.1	0.04	125.2	1.56	0.02	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				
	CDMA BC1_LAT	Back	1.179	10mm	-5.4	-74.1	0.04	154.7	1.39	0.01	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	WLAN2.4GHz_Ant 5	Back	0.383	10mm	-31.94	48.2	-1.73	29.5	0.60	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				



	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 5	LTE Band 25_LAT	Back	1.054	10mm	-2.5	-78	0.06	129.6	1.44	0.01	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				
	LTE Band 25_LAT	Back	1.054	10mm	-2.5	-78	0.06	159.1	1.27	0.01	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	WLAN2.4GHz_Ant 5	Back	0.383	10mm	-31.94	48.2	-1.73	29.5	0.60	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	LTE Band 25_LAT	Back	1.054	10mm	-2.5	-78	0.06	129.6	1.44	0.01	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				



	Band	Position	SAR (W/kg)	Gap (cm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case 6	LTE Band 66_LAT	Back	1.188	10mm	-0.08	-81	-1.97	133.1	1.57	0.01	Not required
	WLAN2.4GHz_Ant 5		0.383	10mm	-31.94	48.2	-1.73				
	LTE Band 66_LAT	Back	1.188	10mm	-0.08	-81	-1.97	162.6	1.40	0.01	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	WLAN2.4GHz_Ant 5	Back	0.383	10mm	-31.94	48.2	-1.73	29.5	0.60	0.02	Not required
	WLAN5GHz_Ant 4		0.214	10mm	-38.34	77	-1.54				
	LTE Band 66_LAT	Back	1.188	10mm	-0.08	-81	-1.97	143.3	1.60	0.01	Not required
	WLAN5GHz_Ant 5		0.414	10mm	-34.93	58.02	-1.77				





15. Supplemental tuner tests results

General Note:

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states at both WWAN UAT / LAT transmit antenna, the 96 tuner states for UAT antenna, the 48 tuner states for LAT antenna are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 96 tuner states for UAT antenna, 48 tuner states for LAT antenna.
3. Per FCC guidance, several bands/modes were combined to be treated as a single aggregate band, for CEMA BC0 and BC10 is evaluated separation reported SAR configuration per exposure conditions were considered for point SAR measurements. For LTE B2/B25, B4/B66, B5/B26 and B12/B17 pair, the highest reported SAR configuration per exposure condition was evaluated.
4. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.

Head LAT antenna														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 7)	0	28	8	36	16
GSM850	GPRS (4 Tx slots)	824.2	128	N/A	N/A	Right Cheek	0 mm	0.324	0.351	0.001	0.002	0.008	0	0
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 28)	1	29	9	37	17
GSM1900	GPRS (3 Tx slots)	1850.2	512	N/A	N/A	Left Cheek	0 mm	0.085	0.116	0.066	0.072	0.061	0.064	0.044
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 27)	2	30	10	38	18
WCDMA II	RMC12.2kbps	1880	9400	N/A	N/A	Left Cheek	0 mm	0.188	0.247	0.171	0.174	0.18	0.161	0.108
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 26)	3	31	11	39	19
WCDMA IV	RMC12.2kbps	1732.6	1413	N/A	N/A	Left Cheek	0 mm	0.283	0.365	0.095	0.045	0.046	0.103	0.065
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 43)	4	32	12	40	20
WCDMA V	RMC12.2kbps	836.4	4182	N/A	N/A	Right Cheek	0 mm	0.255	0.302	0.005	0.009	0.001	0.003	0.018
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	5	33	13	41	21
CDMA BC0	1xRTT RC3 SO55	848.31	777	N/A	N/A	Right Cheek	0 mm	0.378	0.381	0.115	0.127	0.111	0.111	0.112
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 28)	6	34	14	42	22
CDMA BC1	1xRTT RC3 SO55	1880	600	N/A	N/A	Left Cheek	0 mm	0.359	0.456	0.369	0.051	0.169	0.116	0.263
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	7	35	15	43	23
CDMA BC10	1xRTT RC3 SO55	820.5	580	N/A	N/A	Left Cheek	0 mm	0.303	0.331	0.291	0.1	0.094	0.302	0.005
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 6)	8	36	16	44	24
LTE Band 12	QPSK	707.5	23095	1	0	Right Cheek	0 mm	0.213	0.24	0.076	0.014	0.024	0.123	0.015
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 34)	9	37	17	45	25
LTE Band 13	QPSK	782	23230	1	0	Left Cheek	0 mm	0.245	0.276	0.047	0.003	0.016	0.04	0.003
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 27)	10	38	18	46	26
LTE Band 25	QPSK	1860	26140	1	0	Left Cheek	0 mm	0.175	0.236	0.222	0.134	0.097	0.088	0.121
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 10)	11	39	19	47	27
LTE Band 26	QPSK	831.5	26865	1	0	Right Cheek	0 mm	0.273	0.32	0.024	0.001	0.017	0.016	0.001
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 2)	12	40	20	0	28
LTE Band 66	QPSK	1745	132322	1	0	Left Cheek	0 mm	0.328	0.435	0.163	0.059	0.369	0.356	0.341
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 34)	13	41	21	1	29
LTE Band 71	QPSK	683	133322	1	0	Left Cheek	0 mm	0.205	0.213	0.008	0.098	0.133	0.142	0.105



Body LAT Antenna														
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 7)	14	42	22	2	30
GSM850	GPRS (4 Tx slots)	848.8	251	N/A	N/A	Back	10mm	0.551	0.602	0.539	0.122	0.173	0.019	0.592
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 28)	15	43	23	3	31
GSM1900	GPRS (4 Tx slots)	1909.8	810	N/A	N/A	Bottom Side	10mm	0.917	1.379	0.963	0.059	0.555	1.231	0.005
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 27)	16	44	24	4	32
WCDMA II	RMC12.2kbps	1880	9400	N/A	N/A	Bottom Side	10mm	0.933	1.351	1.23	0.082	0.992	0.098	0.003
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 26)	17	45	25	5	33
WCDMA IV	RMC12.2kbps	1732.6	1413	N/A	N/A	Bottom Side	10mm	0.961	1.356	0.326	0.441	1.036	0.916	0.036
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 43)	18	46	26	6	34
WCDMA V	RMC12.2kbps	836.4	4182	N/A	N/A	Front	10mm	0.343	0.381	0.296	0.195	0.269	0.355	0.098
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	19	47	27	7	35
CDMA BC0	1xRTT RC3 SO32	848.31	777	N/A	N/A	Back	10mm	0.469	0.469	0.11	0.296	0.369	0.063	0.455
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 26)	20	0	28	8	36
CDMA BC1	RTAP 153.6Kbps	1880	600	N/A	N/A	Bottom Side	10mm	1.1	1.653	0.332	0.983	1.45	0.541	1.536
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 42)	21	1	29	9	37
CDMA BC10	RTAP 153.6Kbps	820.5	580	N/A	N/A	Right Side	10mm	0.413	0.476	0.4	0.33	0.33	0.297	0.105
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 6)	22	2	30	10	38
LTE Band 12	QPSK	707.5	23095	1	0	Back	10mm	0.293	0.379	0.156	0.263	0.099	0.105	0.3
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 34)	23	3	31	11	39
LTE Band 13	QPSK	782	23230	1	0	Right Side	10mm	0.381	0.429	0.123	0.056	0.036	0.105	0.254
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 27)	24	4	32	12	40
LTE Band 25	QPSK	1880	26340	1	0	Bottom Side	10mm	1.06	1.593	1.005	0.653	0.223	0.219	0.108
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 10)	25	5	33	13	41
LTE Band 26	QPSK	836.5	26915	1	0	Right Side	10mm	0.357	0.401	0.399	0.1	0.056	0.356	0.322
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 2)	26	6	34	14	42
LTE Band 66	QPSK	1770	132572	1	0	Bottom Side	10mm	1.07	1.396	1.069	1.269	0.786	0.561	0.337
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 34)	27	7	35	15	43
LTE Band 71	QPSK	683	133322	1	0	Left Side	10mm	0.315	0.351	0.239	0.005	0.106	0.169	0.131

Head UAT Antenna														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 89)	0	28	56	84	16
GSM850	GPRS (4 Tx slots)	848.8	251	N/A	N/A	Right Tilted	0 mm	1.05	1.383	0.018	0.796	0.274	0.061	0.669
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 1)	1	29	57	85	17
GSM1900	GPRS (3 Tx slots)	1880	661	N/A	N/A	Right Tilted	0 mm	0.942	1.62	1.618	0.951	0.104	0.108	1.599
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 10)	2	30	58	86	18
WCDMA II	RMC12.2kbps	1880	9400	N/A	N/A	Right Tilted	0 mm	1.14	1.941	1.929	0.897	0.312	0.112	1.677
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 26)	3	31	59	87	19
WCDMA IV	RMC12.2kbps	1752.6	1513	N/A	N/A	Right Tilted	0 mm	0.967	1.592	0.968	1.244	0.061	0.117	1.016
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	4	32	60	88	20
WCDMA V	RMC12.2kbps	846.6	4233	N/A	N/A	Right Tilted	0 mm	0.868	1.433	0.427	0.265	0.03	1.046	0.246
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	5	33	61	89	21
CDMA BC0	1xRTT RC3 SO55	848.31	777	N/A	N/A	Right Tilted	0 mm	1.13	1.448	1.247	0.201	0.065	1.433	0.184
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 10)	6	34	62	90	22
CDMA BC1	1xRTT RC3 SO55	1880	600	N/A	N/A	Right Tilted	0 mm	1.17	1.723	1.443	1.107	0.213	0.081	1.492
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 29)	7	35	63	91	23
CDMA BC10	1xRTT RC3 SO55	820.5	580	N/A	N/A	Right Tilted	0 mm	1.12	1.373	0.861	0.648	0.757	0.933	0.643
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 8)	8	36	64	92	24
LTE Band 12	QPSK	707.5	23095	1	0	Right Cheek	0 mm	0.599	0.981	0.978	0.002	0.025	0.928	0.002
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 79)	9	37	65	93	25
LTE Band 13	QPSK	782	23230	1	0	Right Cheek	0 mm	0.765	1.196	0.295	0.016	0.327	0.364	0.014
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 14)	10	38	66	94	26
LTE Band 25	QPSK	1860	26140	1	0	Right Tilted	0 mm	1.11	1.848	1.664	1.146	0.125	0.103	1.342
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 90)	11	39	67	95	27
LTE Band 26	QPSK	831.5	26865	1	0	Right Cheek	0 mm	0.843	1.176	0.064	0.115	0.596	0.109	0.102
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 28)	12	40	68	0	28
LTE Band 66	QPSK	1770	132572	1	0	Right Tilted	0 mm	1.04	1.462	1.065	1.421	0.072	0.865	1.459
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 8)	13	41	69	1	29
LTE Band 71	QPSK	683	133322	1	0	Right Cheek	0 mm	0.651	0.822	0.003	0.042	0.504	0.003	0.039



Body UAT Antenna														
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 89)	14	42	70	2	30
GSM850	GPRS (4 Tx slots)	848.8	251	N/A	N/A	Back	10mm	0.493	0.554	0.021	0.338	0.012	0.018	0.358
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 1)	15	43	71	3	31
GSM1900	GPRS (3 Tx slots)	1880	661	N/A	N/A	Top Side	10mm	0.98	1.437	1.337	0.853	0.066	1.381	0.797
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 1)	16	44	72	4	32
WCDMA II	RMC12.2kbps	1880	9400	N/A	N/A	Top Side	10mm	1.01	1.494	1.487	0.667	0.056	1.483	0.599
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 45)	17	45	73	5	33
WCDMA IV	RMC12.2kbps	1752.6	1513	N/A	N/A	Back	10mm	0.501	0.792	0.427	0.767	0.048	0.347	0.787
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 71)	18	46	74	6	34
WCDMA V	RMC12.2kbps	846.6	4233	N/A	N/A	Back	10mm	0.342	0.356	0.198	0.045	0.018	0.181	0.046
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 41)	19	47	75	7	35
CDMA BC0	RTAP 153.6Kbps	848.31	777	N/A	N/A	Back	10mm	0.484	0.498	0.192	0.056	0.111	0.188	0.054
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 10)	20	48	76	8	36
CDMA BC1	1xRTT RC3 SO32	1851.25	25	N/A	N/A	Back	10mm	1.16	1.659	1.643	0.163	0.045	1.563	0.654
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 29)	21	49	77	9	37
CDMA BC10	RTAP 153.6Kbps	820.5	580	N/A	N/A	Front	10mm	0.424	0.488	0.058	0.013	0.459	0.055	0.011
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 8)	22	50	78	10	38
LTE Band 12	QPSK	707.5	23095	1	0	Back	10mm	0.288	0.379	0.001	0.003	0.028	0.001	0.003
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 79)	23	51	79	11	39
LTE Band 13	QPSK	782	23230	1	0	Back	10mm	0.354	0.479	0.026	0.012	0.443	0.025	0.013
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 3)	24	52	80	12	40
LTE Band 25	QPSK	1880	26340	1	0	Top Side	10mm	0.968	1.411	0.694	0.055	0.013	1.169	0.649
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 90)	25	53	81	13	41
LTE Band 26	QPSK	836.5	26915	1	0	Back	10mm	0.364	0.456	0.004	0.177	0.055	0.004	0.166
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 28)	26	54	82	14	42
LTE Band 66	QPSK	1770	132572	1	0	Back	10mm	0.605	0.895	0.515	0.051	0.042	0.626	0.873
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)					
									Auto-Tune (State 8)	27	55	83	15	43
LTE Band 71	QPSK	683	133322	1	0	Back	10mm	0.301	0.322	0.004	0.079	0.021	0.004	0.087

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16. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg. Therefore, the measurement uncertainty table is not required in this report.

17. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.