

FCC SAR TEST REPORT

FCC ID : UZ7TC78A1
Equipment : Touch Computer
Brand Name : Zebra
Model Name : TC78A1
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Jul. 19, 2022 and testing was started from Aug. 11, 2022 and completed on Nov. 09, 2022. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

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



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA271554A	01	Initial issue of report	Oct. 18, 2022
FA271554A	02	Additional WiFi 6E PD exposure position result Update appendix B, E and F	Nov. 10, 2022
FA271554A	03	Update Section 14	Nov. 22, 2022



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Zebra Technologies Corporation, Touch Computer, TC78A1, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
		Head	Body-worn	Hotspot	Product Specific		
		(Separation 0mm)	(Separation 15mm)	(Separation 10mm)	(Separation 0mm)		
		1g SAR (W/kg)			10g SAR (W/kg)		
Licensed	GSM850	0.36	0.98	0.58		1.59	3.78
	GSM1900	0.13	0.99	0.74			
	WCDMA II	0.48	0.66	0.81			
	WCDMA IV	0.70	0.60	0.74			
	WCDMA V	0.34	1.00	0.66			
	LTE Band 7	0.48	0.52	0.91			
	LTE Band 12 / 17	0.35	0.50	0.42			
	LTE Band 13	0.32	0.51	0.44			
	LTE Band 14	0.51	0.67	0.40			
	LTE Band 2 / 25	0.41	1.02	0.68			
	LTE Band 5 / 26	0.32	0.86	0.50			
	LTE Band 38 / 41	0.44	0.66	0.91	1.46		
	LTE Band 48	0.41	1.18	0.85	1.59		
	LTE Band 4 / 66	0.44	0.95	1.12			
	LTE Band 71	0.37	0.43	0.31			
	FR1 n7	0.39	0.54	0.92			
	FR1 n12	0.25	0.34	0.27			
	FR1 n13	0.29	0.75	0.49			
	FR1 n14	0.25	0.64	0.55			
	FR1 n2 / n25	0.42	1.18	0.76			
	FR1 n5 / n26	0.42	0.62	0.46			
	FR1 n38 / n41	1.20	1.11	0.89	2.63		
	FR1 n48	0.40	1.04	1.08	2.96		
	FR1 n66	0.78	0.64	0.97			
	FR1 n71	0.40	0.30	0.37			
	FR1 n77 / n78	0.56	0.99	1.18	3.08		
DTS	2.4GHz WLAN	0.80	0.44	0.66		1.59	
NII	5GHz WLAN	1.20	0.38	0.76	1.03	1.59	3.78
6CD	6GHz WLAN	0.33	0.20		0.33	1.36	2.91
DSS	Bluetooth	< 0.01	< 0.01	< 0.01		1.59	
Equipment Class	Frequency Band	Head APD (mW/cm^2)	Body-worn APD (mW/cm^2)	Product Specific APD (mW/cm^2)		Reported PD (mW/cm^2)	
6CD	6GHz WLAN	0.180	0.155	0.574		0.833	
Date of Testing:		2022/08/11~ 2022/11/09					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 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 for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 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: Jason Wang
Report Producer: Paula Chen



2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	Touch Computer
Brand Name	Zebra
Model Name	TC78A1
FCC ID	UZ7TC78A1
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3650MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK



HW Version	EV2
SW Version	athena_A11_userdebug_GMS_RelKey_2022-07-14-1733_product_SE
FW Version	FUSION_QA_4_1.2.0.001_R
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.
MFD	11JUN22
EUT Stage	Identical Prototype

Remark:

1. Dynamic antenna tuning mechanism is available at Ant. 0 and 2 and for its < 2GHz band.
2. The device implements the power management detection for SAR compliance at different exposure conditions (head, body-worn, hotspot, Product Specific) and the smart transmit will manage to ensure the power level not exceeding the associated power table.
3. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications
4. There are three kinds of samples as below. RF exposure is selected sample 1 to evaluate and sample 2 and 3 spot check worst case found sample 1.
5. The device support DBS mode (Dual band simultaneous) for WLAN operation, when the DBS mode is active the device will limit different maximum power for Sim-Tx SAR compliance.
6. This device has NFC operations, the NFC antenna is integrated into the device for this model, therefore, all SAR test were performed with the device which already incorporates the NFC antenna.
7. According to FCC KDB publication 447498 D01v06, transmitters are consider to be operating simultaneously when there is overlapping transmission, with the exception of transmission during network hand-offs with maximum hand-off duration less than 30 seconds.

Sample list	
Sample1	SE4770 + Base config
Sample2	Lowell + Premium sku
Sample3	Lowell + Base sku

Specification of Accessories				
Adapter	Brand Name	Zebra	Model	SAWA-65-20005A
			Part Number	PWR-WUA5V12W0US
Battery 1X	Brand Name	Zebra	Model	BT-000442
			Part Number	BT-000442-0020
Battery 1.5X	Brand Name	Zebra	Model	BT-000442
			Part Number	BT-000442-0820
Wireless Battery	Brand Name	Zebra	Model	BT-000442
			Part Number	BT-000442-002A
USB TYPE A to TYPE C cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB TYPE C to 3.5mm audio connector	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm Earphone	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
USB TYPE C Earphone	Brand Name	Zebra	Part Number	HPST-USBC-PTT1-01
Trigger Handle	Brand Name	Zebra	Part Number	TRG-NGTC5-ELEC-01
Soft Holster	Brand Name	Zebra	Part Number	SG-NGTC5TC7-HLSTR-01
TC53/TC58 RUGGED BOOT	Brand Name	Zebra	Part Number	SG-NGTC5EXO1-01



3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- 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
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

4. Maximum Tune-up Limit

General Note:

1. PC2 as Power class2, PC3 as Power class3 in this report.
2. For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition.
3. The device implements the power management detection for SAR compliance at different exposure conditions (head, body-worn, hotspot, Product Specific) by DSI(Device State Index) and the smart transmit will manage to ensure the power level not exceeding the associated power table.
4. The following table shows maximum output power configurations for various exposure conditions (Device State Index) with tune-up tolerance accounted. For Smart transmit enabled bands, the values associate with Plimit plus the total uncertainty, or Pmax plus total uncertainty when the derived Plimit is higher than Pmax. In some frequency bands, for some power indexes which associate with the same power level, conducted power measurement for those only need to perform at once.
5. For 5G NR Ant 1/3/5/7/12 are used as SRS dedicated antennas, i.e., the antenna(s) are used for receive and Sound Reference Signal transmission (SRS) only (not traffic transmission).

Band	Config	Antenna	Duty cycle	Pmax	WLAN OFF		WLAN ON		
					Head	Body-worn /Product Specific	Head	Hotspot	Body-worn /Product Specific
				DSI0	DSI2	DSI1	DSI2	DSI3	DSI1
GSM850 GPRS 4TX	TX0	4	50.00%	30.5	30.5	30.5	29.9	30.5	30.5
GSM1900 GPRS 4TX	TX0	4	50.00%	27.5	27.5	27.5	27.5	27.1	27.5
WCDMA B2	TX0	2	100.00%	25.2	25.2	25.2	25.2	25.2	25.2
WCDMA B4	TX0	2	100.00%	25.2	25.2	25.2	25.2	24.5	25.2
WCDMA B5	TX0	4	100.00%	25.2	25.2	25.2	25.2	25.2	25.1
LTE B25/2	TX0	2	100.00%	25.2	25.2	25.2	25.2	25.2	25.2
LTE B25/2	TX1	4	100.00%	24.7	24.7	23.0	24.7	22.3	22.6
LTE B66/4	TX0	2	100.00%	25.2	25.2	25.2	25.2	23.6	25.2
LTE B66/4	TX1	4	100.00%	24.7	24.7	24.7	24.7	23.3	24.6
LTE B26/5	TX0	4	100.00%	25.2	24.7	25.2	23.7	25.2	25.2
LTE B7	TX1	6	100.00%	24	24.0	24.0	23.1	23.3	24.0
LTE B12/17	TX0	0	100.00%	24.7	24.7	24.7	24.7	24.7	24.7
LTE B13	TX0	0	100.00%	24.5	24.5	24.5	24.5	24.5	24.5
LTE B14	TX0	0	100.00%	24.7	24.7	24.7	24.7	24.7	24.7
LTE B38 PC3	TX1	6	63.30%	24.5	24.5	24.5	24.5	23.7	24.5
LTE B41 PC3	TX1	6	63.30%	25	24.6	25.0	24.5	23.7	25.0
LTE B41 PC2	TX1	6	43.30%	27	26.2	27.0	26.1	25.3	27.0
LTE B48	TX0	12	63.30%	22	22.0	20.0	22.0	15.9	19.2
LTE B48	TX1	11	63.30%	22	22.0	22.0	21.0	21.1	22.0
LTE B71	TX0	0	100.00%	24.7	24.7	24.7	24.7	24.7	24.7
FR1 n25/2	TX0	2	100.00%	25.2	25.2	25.2	25.2	25.2	25.2
FR1 n25/2	TX1	4	100.00%	25.2	25.2	23.6	25.2	25.1	22.7
FR1 n5	TX1	4	100.00%	25.2	25.2	25.2	24.9	25.2	25.2
FR1 n7	TX1	6	100.00%	24	23.4	24.0	22.8	23.9	24.0
FR1 n12	TX0	0	100.00%	24.7	24.7	24.7	24.7	24.7	24.7
FR1 n13	TX0	0	100.00%	24.5	24.5	24.5	24.5	24.5	24.5
FR1 n14	TX0	0	100.00%	24.7	24.7	24.7	24.7	24.7	24.7
FR1 n38 PC3	TX1	6	100.00%	24.5	23.8	24.5	23.8	23.3	24.5
FR1 n41 PC3	TX1	6	100.00%	25	23.8	25.0	23.8	23.3	25.0
FR1 n41 PC2	TX1	6	100.00%	27	23.8	27.0	23.8	23.3	26.5
FR1 n41 PC3 SRS	TX1	12	100.00%	25	23.7	25.0	22.9	25.0	25.0
FR1 n41 PC2 SRS	TX1	12	100.00%	27	23.7	27.0	22.9	27.0	27.0
FR1 n41 PC3 SRS	TX1	1	100.00%	25	21.5	25.0	19.9	25.0	25.0
FR1 n41 PC2 SRS	TX1	1	100.00%	27	21.5	27.0	19.9	27.0	27.0
FR1 n41 PC3 SRS	TX1	7	100.00%	25	22.1	25.0	20.5	23.9	25.0
FR1 n41 PC2 SRS	TX1	7	100.00%	27	22.1	27.0	20.5	23.9	27.0
FR1 n48	TX0	12	100.00%	22	22.0	22.0	22.0	18.5	21.7
FR1 n48	TX1	11	100.00%	22	19.0	21.8	18.2	18.2	21.3
FR1 n66	TX0	2	100.00%	25.2	25.2	25.2	25.2	23.7	25.2
FR1 n66	TX1	4	100.00%	25.2	25.2	25.2	25.2	25.2	25.2
FR1 n71	TX0	0	100.00%	24.7	24.7	24.7	24.7	24.7	24.7
FR1 n77/78 PC3	TX0	12	100.00%	25	25.0	19.0	25.0	15.8	19.0
FR1 n77/78 PC2	TX0	12	100.00%	26.5	26.5	19.0	26.3	15.8	19.0
FR1 n77/78 PC3	TX1	11	100.00%	25	18.7	20.7	18.1	17.3	20.2
FR1 n77/78 PC2	TX1	11	100.00%	26.5	18.7	20.7	18.1	17.3	20.2
FR1 n77/78 SRS (PC3)	TX1	5	100.00%	25	16.7	24.5	16.0	18.7	24.5
FR1 n77/78 SRS (PC3)	TX1	3	100.00%	23	21.0	23.0	20.5	23.0	23.0

4.1 Smart Transmit feature for RF Exposure compliance

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target or PD_design_target, below the predefined time-averaged power limit (i.e., input.power.limit for 5G mmW NR), for each characterized technology and band (refer to RF exposure part0 report)

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit}. Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI).

<Terminologies in this report>

P _{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P _{max}	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties.
SAR char	P _{limit} for all the technologies/bands for all applicable DSI

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for $f < 6$ GHz.

<SAR design target and uncertainty>

The detail SAR design target relate to each exposure conditions list as below

Band	Antenna	Device Uncertainty (dB)	WLAN OFF		WLAN ON		
			Head	Body-Worn /Product Specific	Head	Hotspot	Body-Worn /Product Specific
GSM850(4 Tx slots)	4	1.00	0.365	0.794	0.318	0.560	0.794
GSM1900(4 Tx slots)	4	1.00	0.318	0.794	0.318	0.596	0.794
WCDMA II	2	1.00	0.318	0.794	0.318	0.720	0.794
WCDMA IV	2	1.00	0.318	0.794	0.318	0.596	0.794
WCDMA V	4	1.00	0.318	0.812	0.318	0.560	0.794
LTE B2/25	2	1.00	0.680	0.794	0.680	0.596	0.794
LTE B2/25	4	1.00	0.318	0.871	0.318	0.596	0.794
LTE B4/66	2	1.00	0.680	0.935	0.680	0.596	0.935
LTE B4/66	4	1.00	0.318	2.600	0.318	0.935	2.540
LTE B5/26	4	1.00	0.400	0.794	0.318	0.560	0.794
LTE B7	6	1.00	0.391	0.935	0.318	0.715	0.935
LTE B12/B17	0	1.00	0.318	0.794	0.318	0.596	0.794
LTE B13	0	1.00	0.318	0.794	0.318	0.596	0.794
LTE B14	0	1.00	0.318	0.794	0.318	0.596	0.794
LTE B71	0	1.00	0.318	0.794	0.318	0.560	0.794
LTE B38 (PC3)	6	1.00	0.318	0.794	0.318	0.715	0.794
LTE B41 (PC3)	6	1.00	0.318	0.794	0.318	0.715	0.794
LTE B41 (PC2)	6	1.00	0.318	0.794	0.318	0.715	0.794
LTE B48	11	1.00	0.318	0.955	0.318	0.715	0.794
LTE B48	12	1.00	1.000	0.794	0.794	0.874	0.794
FR1 n2/n25	2	1.00	0.318	0.794	0.318	0.720	0.794
FR1 n2/n25	4	1.00	0.318	0.977	0.318	0.596	0.794
FR1 n5/n26	4	1.00	0.341	0.794	0.318	0.560	0.794
FR1 n7	6	1.00	0.400	0.935	0.318	0.560	0.935
FR1 n12	0	1.00	0.318	0.794	0.318	0.596	0.794
FR1 n13	0	1.00	0.318	0.794	0.318	0.596	0.794
FR1 n14	0	1.00	0.318	0.794	0.318	0.596	0.794
FR1 n38 (PC3)	6	1.00	0.318	0.794	0.318	0.715	0.794
FR1 n41 (PC3)	6	1.00	0.318	0.794	0.318	0.715	0.794
FR1 n41 (PC2)	6	1.00	0.318	0.891	0.318	0.715	0.794
FR1 n41_SRS (PC3)	12	1.00	0.955	0.935	0.794	0.720	0.935
FR1 n41_SRS (PC2)	12	1.00	0.955	0.935	0.794	0.720	0.935
FR1 n41_SRS (PC3)	1	1.00	0.460	0.935	0.318	0.560	0.935
FR1 n41_SRS (PC2)	1	1.00	0.460	0.935	0.318	0.560	0.935
FR1 n41_SRS (PC3)	7	1.00	0.460	0.794	0.318	0.715	0.794
FR1 n41_SRS (PC2)	7	1.00	0.460	0.794	0.318	0.715	0.794
FR1 n48 (PC3)	11	1.00	0.318	2.380	0.318	0.715	2.220
FR1 n48 (PC3)	12	1.00	0.955	0.933	0.794	0.874	0.794
FR1 n66	2	1.00	0.794	0.935	0.794	0.596	0.935
FR1 n66	4	1.00	0.318	0.794	0.318	0.935	0.794
FR1 n71	0	1.00	0.318	0.715	0.318	0.596	0.715
FR1 n77/78 (PC2)	12	1.00	0.712	0.794	0.680	0.874	0.794
FR1 n77/78 (PC3)	12	1.00	0.680	0.794	0.680	0.874	0.794
FR1 n77/78 (PC2)	11	1.00	0.365	2.930	0.318	0.480	2.220
FR1 n77/78 (PC3)	11	1.00	0.365	2.930	0.318	0.480	2.220
FR1 n77/78_SRS (PC3)	5	1.00	0.374	0.808	0.318	0.935	0.720
FR1 n77/78_SRS (PC3)	3	1.00	0.763	0.794	0.680	0.720	0.794

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

*P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + 1dB uncertainty.

**All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

The max allowed output power is the P_{limit} + 1dB device uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.

Band	Config	Antenna	Duty cycle	WLAN OFF		WLAN ON			Pmax
				Head	Body-worn /Product Specific	Head	Hotspot	Body-worn /Product Specific	
				DSI2	DSI1	DSI2	DSI3	DSI1	
GSM850 GPRS 4TX	TX0	4	50.00%	26.5	27.6	25.9	27.3	26.6	26.5
GSM1900 GPRS 4TX	TX0	4	50.00%	32.7	24.5	31.7	23.1	23.5	23.5
WCDMA B2	TX0	2	100.00%	28.1	27	27.1	25.4	26	24.2
WCDMA B4	TX0	2	100.00%	25.3	27.3	24.3	23.5	26.3	24.2
WCDMA B5	TX0	4	100.00%	25.3	24.2	24.3	24.4	24.1	24.2
LTE B25/2	TX0	2	100.00%	27.1	29	26.1	25.9	28	24.2
LTE B25/2	TX1	4	100.00%	28.6	22	27.6	21.3	21.6	23.7
LTE B66/4	TX0	2	100.00%	26.8	27.4	25.8	22.6	26.4	24.2
LTE B66/4	TX1	4	100.00%	32.1	23.7	31.1	22.3	23.6	23.7
LTE B26/5	TX0	4	100.00%	23.7	25.5	22.7	25.2	24.5	24.2
LTE B7	TX0	12	100.00%	23	30.7	21.6	24.3	29.7	23
LTE B7	TX1	6	100.00%	23	24.7	22.1	22.3	23.7	23
LTE B12/17	TX0	0	100.00%	25.8	27.6	24.8	27	26.6	23.7
LTE B13	TX0	0	100.00%	28.4	27.3	27.4	25.9	26.3	23.5
LTE B14	TX0	0	100.00%	26.1	26.4	25.1	26.5	25.4	23.7
LTE B38 PC3	TX1	6	63.30%	21.6	24.9	21.5	20.7	23.9	21.5
LTE B41 PC3	TX1	6	63.30%	21.6	24.9	21.5	20.7	23.9	22
LTE B41 PC2	TX1	6	43.30%	21.6	24.9	21.5	20.7	23.9	22.4
LTE B48	TX0	12	63.30%	27.8	17	26.8	12.9	16.2	19
LTE B48	TX1	11	63.30%	19	24.8	18	18.1	23.8	19
LTE B71	TX0	0	100.00%	25.4	28.3	24.4	27.3	27.3	23.7
FR1 n25/2	TX0	2	100.00%	25.2	29	24.2	26.1	28	24.2
FR1 n25/2	TX1	4	100.00%	31	22.6	30	24.1	21.7	24.2
FR1 n5	TX1	4	100.00%	24.2	27.2	23.9	25.1	26.2	24.2
FR1 n7	TX0	12	100.00%	22.7	28.7	21.7	24.3	27.7	23
FR1 n7	TX1	6	100.00%	22.4	26.3	21.8	22.9	25.3	23
FR1 n12	TX0	0	100.00%	27.4	28.9	26.4	29.8	27.9	23.7
FR1 n13	TX0	0	100.00%	28	25.7	27	26.4	24.7	23.5
FR1 n14	TX0	0	100.00%	29.1	26.6	28.1	27	25.6	23.7
FR1 n38 PC3	TX1	6	100.00%	22.8	26	22.8	22.3	25.5	23.5
FR1 n41 PC3	TX1	6	100.00%	22.8	26	22.8	22.3	25.5	24
FR1 n41 PC2	TX1	6	100.00%	22.8	26	22.8	22.3	25.5	26
FR1 n41 PC3 SRS	TX1	12	100.00%	22.7	29.2	21.9	27.3	28.2	24
FR1 n41 PC2 SRS	TX1	12	100.00%	22.7	29.2	21.9	27.3	28.2	26
FR1 n41 PC3 SRS	TX1	1	100.00%	20.5	28.9	18.9	26.1	27.9	24
FR1 n41 PC2 SRS	TX1	1	100.00%	20.5	28.9	18.9	26.1	27.9	26
FR1 n41 PC3 SRS	TX1	7	100.00%	21.1	32.2	19.5	22.9	31.2	24
FR1 n41 PC2 SRS	TX1	7	100.00%	21.1	32.2	19.5	22.9	31.2	26
FR1 n48	TX0	12	100.00%	30.4	21	29.4	17.5	20.7	21
FR1 n48	TX1	11	100.00%	18	20.8	17.2	17.2	20.1	21
FR1 n66	TX0	2	100.00%	26.2	28.1	25.2	22.7	27.1	24.2
FR1 n66	TX1	4	100.00%	35.8	27	34.8	24.9	26	24.2
FR1 n71	TX0	0	100.00%	24.7	29.4	23.7	26.7	28.4	23.7
FR1 n77/78 (PC2)	TX0	12	100.00%	25.5	18	25.3	14.8	18	25.5
FR1 n77/78 (PC3)	TX0	12	100.00%	25.5	18	25.3	14.8	18	21
FR1 n77/78 (PC2)	TX1	11	100.00%	17.7	19.7	17.1	16.3	18.5	25.5
FR1 n77/78 (PC3)	TX1	11	100.00%	17.7	19.7	17.1	16.3	18.5	21
FR1 n77/78_SRS (PC3)	TX1	5	100.00%	15.7	23.5	15	17.7	23	24
FR1 n77/78_SRS (PC3)	TX1	3	100.00%	20	27.3	19.5	23.4	26.3	22

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05												
FCC ID			UZ7TC78A1									
Equipment Name			Touch Computer									
Operating Frequency Range of each LTE transmission band			LTE Band 2: 1850 MHz ~ 1910 MHz									
			LTE Band 4: 1710 MHz ~ 1755 MHz									
			LTE Band 5: 824 MHz ~ 849 MHz									
			LTE Band 7: 2500 MHz ~ 2570 MHz									
			LTE Band 12: 699 MHz ~ 716 MHz									
			LTE Band 13: 777 MHz ~ 787 MHz									
			LTE Band 14: 788 MHz ~ 798 MHz									
			LTE Band 17: 704 MHz ~ 716 MHz									
			LTE Band 25: 1850 MHz ~ 1915 MHz									
			LTE Band 26: 814 MHz ~ 849 MHz									
			LTE Band 38: 2570 MHz ~ 2620 MHz									
			LTE Band 41: 2496 MHz ~ 2690 MHz									
			LTE Band 48: 3550 MHz ~ 3700 MHz									
			LTE Band 66: 1710 MHz ~ 1780 MHz									
			LTE Band 71: 663 MHz ~ 698 MHz									
Channel Bandwidth			LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz									
			LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz									
			LTE Band 13: 5MHz, 10MHz									
			LTE Band 14: 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 38: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz									
			LTE Band 48: 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 / 256QAM									
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 each exposure conditions SAR compliance; power selection is determined by the device's positioning and usage scenarios.									
LTE Carrier Aggregation Combinations			Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 12.									
LTE Carrier Aggregation Additional Information			This device supports maximum of 4 carriers in the downlink and 2 carriers in the uplink. 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

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		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	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		Bandwidth 25 MHz		Bandwidth 30 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		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	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				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782		23230		782		23230		782	
H	23255		784.5		23255		784.5		23255		784.5	
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Channel #		Channel #		Channel #		Channel #		Channel #	
L	23305		790.5		23330		793		23330		793	
M	23330		793		23330		793		23330		793	
H	23355		795.5		23355		795.5		23355		795.5	
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		23800		711	
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		Bandwidth 20 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	823.5
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	838.5

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				
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
	40620	2593	40620	2593	40620	2593	40620	2593				
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 48												
	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	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
LM	55810	3607	55815	3607.5	55820	3608	55830	3609				
	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
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	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				



4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information								
FCC ID	UZ7TC78A1							
Equipment Name	Touch Computer							
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz							
	5G NR n5 : 824 MHz ~ 849 MHz							
	5G NR n7 : 2500 MHz ~ 2570 MHz							
	5G NR n12 : 699 MHz ~ 716 MHz							
	5G NR n13 : 777 MHz ~ 787 MHz							
	5G NR n14 : 788 MHz ~ 798 MHz							
	5G NR n25 : 1850 MHz ~ 1915 MHz							
	5G NR n26 : 814 MHz ~ 849 MHz							
	5G NR n38 : 2570 MHz ~ 2620 MHz							
	5G NR n41 : 2496 MHz ~ 2690 MHz							
	5G NR n48 : 3550 MHz ~ 3700 MHz							
	5G NR n66 : 1710 MHz ~ 1780 MHz							
	5G NR n71 : 663 MHz ~ 698 MHz							
	5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz							
5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3650MHz								
Channel Bandwidth	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n12 : 5MHz, 10MHz, 15MHz							
	5G NR n13 : 5MHz, 10MHz							
	5G NR n14 : 5MHz, 10MHz							
	5G NR n25 : 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n26 : 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n38: 20MHz							
	5G NR n41: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz							
	5G NR n48: 10MHz, 20MHz, 40MHz							
	5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz,40MHz							
	5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n77: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz							
	5G NR n78: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz							
	SCS	FDD: SCS15KHz, TDD: SCS30KHz						
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM							
A-MPR (Additional MPR) disabled for SAR Testing?	Yes							
LTE Anchor Bands for n2	LTE B5/12/13/14/66/71							
LTE Anchor Bands for n5	LTE B2/48/66							
LTE Anchor Bands for n7	LTE B2/5/12/13/66							
LTE Anchor Bands for n12	LTE B66							
LTE Anchor Bands for n25	LTE B12/66/48							
LTE Anchor Bands for n38	LTE B4/B5/B12/66/71							
LTE Anchor Bands for n41	LTE B4/12/25/26/66							
LTE Anchor Bands for n48	LTE B5/13/66							
LTE Anchor Bands for n66	LTE B5/7/12/14/48/71							
LTE Anchor Bands for n71	LTE B7/66							
LTE Anchor Bands for n77	LTE B5/7/12/13/14/66							
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/38/66/71							
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900
NR Band 5								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839



NR Band 7																
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz			
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)	
L	500500		2502.5		501000		2505		501500		2507.5		502000		2510	
M	507000		2535		507000		2535		507000		2535		507000		2535	
H	513500		2567.5		513000		2565		512500		2562.5		512000		2560	
NR Band 12																
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz							
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)	
L	140300		701.5		140800		704		141300		706.5					
M	141500		707.5		141500		707.5		141500		707.5					
H	142700		713.5		142200		711		141700		708.5					
NR Band 13																
	Bandwidth 5MHz						Bandwidth 10MHz									
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)						
L	155900			779.5			156400			782						
M	156400			782												
H	156900			784.5												
NR Band 14																
	Bandwidth 5MHz						Bandwidth 10MHz									
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)						
L	158100			790.5			158600			793						
M	158600			793												
H	159100			795.5												
NR Band 25																
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz						
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)					
L	370500	1852.5		371000	1855		371500	1857.5		372000	1860					
M	376500	1882.5		376500	1882.5		376500	1882.5		376500	1882.5					
H	382500	1912.5		382000	1910		381500	1907.5		381000	1905					
NR Band 26																
	Bandwidth 5MHz			Bandwidth 10MHz			Bandwidth 15MHz			Bandwidth 20MHz						
	Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)		Ch. #	Freq. (MHz)					
L	163300	816.5		163800	819		164300	821.5		164800	824					
M	166300	831.5		166300	831.5		166300	831.5		166300	831.5					
H	169300	846.5		168800	844		168300	841.5		167800	839					
NR Band 38																
	Bandwidth 20MHz															
	Ch. #						Freq. (MHz)									
L	516000						2580									
M	519000						2595									
H	522000						2610									
NR Band 41																
	Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	529998	2649.99	528996	2644.98	528000	2640
NR Band 48																
	Bandwidth10MHz					Bandwidth20MHz					Bandwidth 40MHz					
	Ch. #		Freq. (MHz)			Ch. #		Freq. (MHz)			Ch. #		Freq. (MHz)			
L	637000		3555			637334		3560.01			638000		3570			
M	641666		3624.99			641666		3624.99			640000		3600			
H	646332		3694.98			646000		3690			642000		3630			



NR Band 66																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 40MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	346000	1730								
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745								
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	352000	1760								
NR Band 71																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz											
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)										
L	133100	665.5	133600	668	13410	670.5	134600	673										
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5										
H	139100	695.5	138600	693	13810	690.5	137600	688										
NR Band 77/78(3450MHz ~ 3550MHz)																		
	Bandwidth 20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		
NR Band 77 (3700MHz~3980MHz)																		
	Bandwidth 20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	664666	3969.99	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78 (3700MHz~3800MHz)																		
	Bandwidth 20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	652666	3789.99	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

5. RF Exposure Limits

5.1 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.

5.2 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.

5.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

6. Specific Absorption Rate (SAR)

6.1 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.

6.2 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:

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

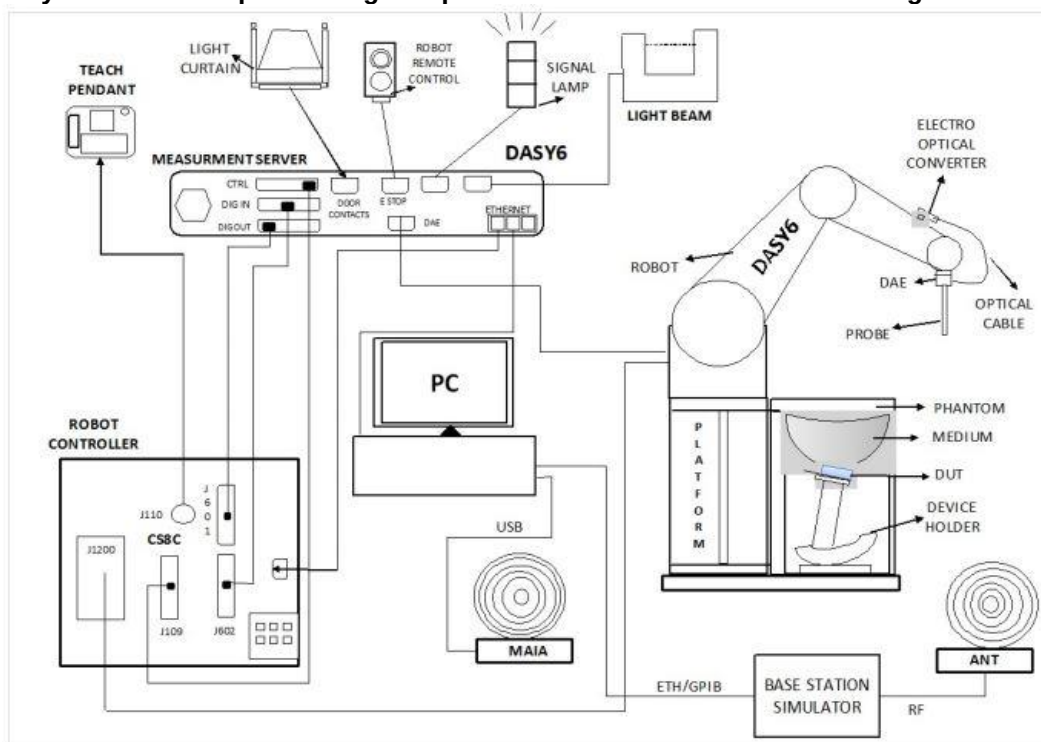
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. System Description and Setup

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



- The DASY system in SAR Configuration is shown above
- 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 windows software and the DASY 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.

7.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Test Site	EMC & Wireless Communications Laboratory		Wensan Laboratory		
	TW1190		TW3786		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan		
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	

7.2 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	

7.3 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

7.4 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.

7.5 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

8. Measurement Procedures

The measurement procedures are as follows:

- (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

8.1 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

8.2 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.

8.3 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 dB0) 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.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 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.	

8.4 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.				

8.5 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.

8.6 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.



9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1107	Jun. 22, 2022	Jun. 21, 2023
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 25, 2019	Nov. 22, 2022
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Jun. 22, 2022	Jun. 21, 2023
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Jun. 17, 2022	Jun. 16, 2023
SPEAG	2450MHz System Validation Kit	D2450V2	736	Aug. 17, 2021	Aug. 17, 2022
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Jun. 23, 2022	Jun. 22, 2023
SPEAG	3500MHz System Validation Kit	D3500V2	1014	Jan. 17, 2022	Jan. 16, 2023
SPEAG	3500MHz System Validation Kit	D3500V2	1036	Mar. 23, 2022	Mar. 22, 2023
SPEAG	3700MHz System Validation Kit	D3700V2	1006	Jun. 20, 2022	Jun. 19, 2023
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1022	Jul. 14, 2021	Jul. 12, 2023
SPEAG	3900MHz System Validation Kit	D3900V2	1017	Apr. 22, 2022	Apr. 21, 2023
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 18, 2023
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1003	Sep. 24, 2021	Sep. 23, 2022
SPEAG	5G Verification Source	10GHz	1020	Jan. 18, 2022	Jan. 17, 2023
SPEAG	EUmmWV Probe Tip Protection	EUmmWV3	9424	Apr. 06, 2022	Apr. 05, 2023
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9461	Oct. 22, 2021	Oct. 21, 2022
SPEAG	Data Acquisition Electronics	DAE4	316	Jan. 26, 2022	Jan. 25, 2023
SPEAG	Data Acquisition Electronics	DAE4	376	Nov. 22, 2021	Nov. 21, 2022
SPEAG	Data Acquisition Electronics	DAE4	853	Jul. 20, 2022	Jul. 19, 2023
SPEAG	Data Acquisition Electronics	DAE4	854	Aug. 24, 2022	Aug. 23, 2023
SPEAG	Data Acquisition Electronics	DAE4	1512	Mar. 29, 2022	Mar. 28, 2023
SPEAG	Dosimetric E-Field Probe	ES3DV3	3184	Sep. 23, 2021	Sep. 22, 2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	3642	Apr. 28, 2022	Apr. 27, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	Apr. 29, 2022	Apr. 28, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7306	Jul. 28, 2022	Jul. 27, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7350	Dec. 20, 2021	Dec. 19, 2022
RCPTWN	Thermometer	HTC-1	TM685-1	Jun. 27, 2022	Jun. 26, 2023
RCPTWN	Thermometer	HTC-1	TM560-2	Mar. 15, 2022	Mar. 14, 2023
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Oct. 21, 2021	Oct. 20, 2022
Keysight	Wireless Communication Test Set	E5515C	MY50267236	Mar. 02, 2022	Mar. 01, 2023
R&S	BT Base Station	CBT32	101136	Oct. 17, 2021	Oct. 16, 2022
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 24, 2021	Oct. 23, 2022
Keysight	ENA Network Analyzer	E5071C	MY46316648	Jul. 25, 2022	Jul. 24, 2023
SPEAG	Dielectric Probe Kit	DAK-3.5	1146	Jul. 25, 2022	Jul. 24, 2023
LINE SEIKI	Digital Thermometer	DTM3000-spezial	2942	Oct. 26, 2021	Oct. 25, 2022
Anritsu	Power Meter	ML2495A	1804003	Oct. 09, 2021	Oct. 08, 2022
Anritsu	Power Meter	ML2496A	2119003	Jun. 22, 2022	Jun. 21, 2023
Anritsu	Power Sensor	MA2411B	1726150	Oct. 09, 2021	Oct. 08, 2022
Anritsu	Power Sensor	MA2411B	1911334	Jun. 22, 2022	Jun. 21, 2023
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 21, 2022	Jul. 20, 2023
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Jan. 12, 2022	Jan. 11, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 12, 2021	Oct. 11, 2022
Mini-Circuits	Power Amplifier	ZHL-42W+	715701915	May. 12, 2022	May. 11, 2023
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:

- 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.
- The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

10. System Verification

10.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing.

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.6	0.893	43.326	0.89	41.90	0.34	3.40	± 5	2022/8/28
750	22.6	0.894	43.456	0.89	41.90	0.45	3.71	± 5	2022/9/4
750	22.6	0.894	43.456	0.89	41.90	0.45	3.71	± 5	2022/9/4
750	22.4	0.895	43.476	0.89	41.90	0.56	3.76	± 5	2022/9/7
750	22.4	0.895	43.476	0.89	41.90	0.56	3.76	± 5	2022/9/7
835	22.5	0.918	42.863	0.90	41.50	2.00	3.28	± 5	2022/8/29
835	22.6	0.892	40.992	0.90	41.50	-0.89	-1.22	± 5	2022/9/5
835	22.6	0.892	40.992	0.90	41.50	-0.89	-1.22	± 5	2022/9/5
835	22.6	0.926	43.000	0.90	41.50	2.89	3.61	± 5	2022/9/6
835	22.6	0.926	43.000	0.90	41.50	2.89	3.61	± 5	2022/9/6
1750	22.5	1.373	40.066	1.37	40.10	0.22	-0.08	± 5	2022/8/30
1750	22.5	1.376	40.984	1.37	40.10	0.44	2.20	± 5	2022/9/3
1750	22.5	1.376	40.984	1.37	40.10	0.44	2.20	± 5	2022/9/3
1750	22.5	1.373	40.066	1.37	40.10	0.22	-0.08	± 5	2022/9/9
1750	22.5	1.373	40.066	1.37	40.10	0.22	-0.08	± 5	2022/9/9
1900	22.4	1.396	39.791	1.40	40.00	-0.29	-0.52	± 5	2022/8/31
1900	22.6	1.405	40.193	1.40	40.00	0.36	0.48	± 5	2022/9/2
1900	22.6	1.405	40.193	1.40	40.00	0.36	0.48	± 5	2022/9/2
1900	22.6	1.388	40.073	1.40	40.00	-0.86	0.18	± 5	2022/9/8
1900	22.6	1.388	40.073	1.40	40.00	-0.86	0.18	± 5	2022/9/8
2450	22.3	1.780	39.764	1.80	39.20	-1.11	1.44	± 5	2022/8/11
2450	22.3	1.800	39.388	1.80	39.20	0.00	0.48	± 5	2022/8/13
2450	22.3	1.800	39.388	1.80	39.20	0.00	0.48	± 5	2022/8/13
2450	22.4	1.847	39.117	1.80	39.20	2.61	-0.21	± 5	2022/8/14
2600	22.6	1.931	38.357	1.96	39.00	-1.48	-1.65	± 5	2022/8/19
2600	22.6	2.018	39.171	1.96	39.00	2.96	0.44	± 5	2022/8/27
2600	22.4	2.040	38.511	1.96	39.00	4.08	-1.25	± 5	2022/9/1
2600	22.4	2.040	38.511	1.96	39.00	4.08	-1.25	± 5	2022/9/1
2600	22.6	1.963	38.687	1.96	39.00	0.15	-0.80	± 5	2022/9/10
2600	22.6	1.963	38.687	1.96	39.00	0.15	-0.80	± 5	2022/9/10
3500	22.4	2.893	37.783	2.91	37.90	-0.58	-0.31	± 5	2022/8/26
3500	22.6	2.887	37.788	2.91	37.90	-0.79	-0.30	± 5	2022/9/11
3500	22.4	2.873	37.933	2.91	37.90	-1.27	0.09	± 5	2022/9/12
3500	22.6	2.897	37.957	2.91	37.90	-0.45	0.15	± 5	2022/9/13
3500	22.4	2.862	37.923	2.91	37.90	-1.65	0.06	± 5	2022/9/14
3500	22.5	2.947	37.923	2.91	37.90	1.27	0.06	± 5	2022/9/15
3500	22.5	2.977	37.753	2.91	37.90	2.30	-0.39	± 5	2022/9/16
3500	22.5	2.955	37.730	2.91	37.90	1.55	-0.45	± 5	2022/9/17
3500	22.5	2.963	37.767	2.91	37.90	1.82	-0.35	± 5	2022/9/18
3500	22.5	2.957	37.653	2.91	37.90	1.62	-0.65	± 5	2022/9/19
3500	22.6	2.934	38.032	2.91	37.90	0.82	0.35	± 5	2022/9/27
3700	22.4	3.107	37.464	3.12	37.70	-0.42	-0.63	± 5	2022/8/26



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3700	22.6	3.080	37.618	3.12	37.70	-1.28	-0.22	±5	2022/9/11
3700	22.4	3.087	37.614	3.12	37.70	-1.06	-0.23	±5	2022/9/12
3700	22.6	3.111	37.638	3.12	37.70	-0.29	-0.16	±5	2022/9/13
3700	22.4	3.074	37.604	3.12	37.70	-1.47	-0.25	±5	2022/9/14
3700	22.5	3.165	37.604	3.12	37.70	1.44	-0.25	±5	2022/9/15
3700	22.5	3.129	37.495	3.12	37.70	0.29	-0.54	±5	2022/9/16
3700	22.5	3.107	37.472	3.12	37.70	-0.42	-0.60	±5	2022/9/17
3700	22.5	3.115	37.509	3.12	37.70	-0.16	-0.51	±5	2022/9/18
3700	22.5	3.109	37.395	3.12	37.70	-0.35	-0.81	±5	2022/9/19
3700	22.6	3.140	37.802	3.12	37.70	0.64	0.27	±5	2022/9/27
3900	22.4	3.307	37.273	3.33	37.51	-0.69	-0.63	±5	2022/8/26
3900	22.5	3.368	37.413	3.33	37.51	1.14	-0.26	±5	2022/9/15
3900	22.5	3.290	37.272	3.33	37.51	-1.20	-0.63	±5	2022/9/16
3900	22.5	3.266	37.249	3.33	37.51	-1.92	-0.70	±5	2022/9/17
3900	22.5	3.275	37.286	3.33	37.51	-1.65	-0.60	±5	2022/9/18
3900	22.5	3.268	37.172	3.33	37.51	-1.86	-0.90	±5	2022/9/19
3900	22.6	3.347	37.571	3.33	37.51	0.51	0.16	±5	2022/9/27
5250	22.2	4.632	36.213	4.71	35.95	-1.66	0.73	±5	2022/8/15
5250	22.1	4.537	35.875	4.71	35.95	-3.67	-0.21	±5	2022/8/16
5250	22.7	4.645	35.925	4.71	35.95	-1.38	-0.07	±5	2022/8/17
5600	22.2	4.964	35.733	5.07	35.50	-2.09	0.66	±5	2022/8/15
5600	22.1	4.871	35.404	5.07	35.50	-3.93	-0.27	±5	2022/8/16
5600	22.7	4.988	35.414	5.07	35.50	-1.62	-0.24	±5	2022/8/17
5750	22.2	5.132	35.491	5.22	35.35	-1.69	0.40	±5	2022/8/15
5750	22.1	5.033	35.261	5.22	35.35	-3.58	-0.25	±5	2022/8/16
6500	22.5	6.150	35.700	6.07	34.50	1.32	3.48	±5	2022/8/25
6500	22.5	6.110	34.130	6.07	34.50	0.66	-1.07	±5	2022/8/26



10.2 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.

Test Site	Date	Frequency (MHz)	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 (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR04	2022/8/28	750	250	D750V3-1107	ES3DV3 - SN3184	DAE4 Sn1512	2.100	8.540	8.4	-1.64	1.390	5.570	5.56	-0.18
SAR04	2022/9/4	750	250	D750V3-1107	ES3DV3 - SN3184	DAE4 Sn1512	2.100	8.540	8.4	-1.64	1.400	5.570	5.6	0.54
SAR03	2022/9/4	750	50	D750V3-1107	EX3DV4 - SN3925	DAE4 Sn376	0.394	8.540	7.88	-7.73	0.255	5.570	5.1	-8.44
SAR04	2022/9/7	750	250	D750V3-1107	ES3DV3 - SN3184	DAE4 Sn1512	2.100	8.540	8.4	-1.64	1.400	5.570	5.6	0.54
SAR03	2022/9/7	750	50	D750V3-1107	EX3DV4 - SN3925	DAE4 Sn376	0.395	8.540	7.9	-7.49	0.255	5.570	5.1	-8.44
SAR04	2022/8/29	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE4 Sn1512	2.470	9.550	9.88	3.46	1.610	6.210	6.44	3.70
SAR04	2022/9/5	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE4 Sn1512	2.400	9.550	9.6	0.52	1.570	6.210	6.28	1.13
SAR03	2022/9/5	835	50	D835V2-4d167	EX3DV4 - SN3925	DAE4 Sn376	0.448	9.550	8.96	-6.18	0.285	6.210	5.7	-8.21
SAR04	2022/9/6	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE4 Sn1512	2.490	9.550	9.96	4.29	1.630	6.210	6.52	4.99
SAR03	2022/9/6	835	50	D835V2-4d167	EX3DV4 - SN3925	DAE4 Sn376	0.465	9.550	9.3	-2.62	0.296	6.210	5.92	-4.67
SAR04	2022/8/30	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE4 Sn1512	9.110	36.900	36.44	-1.25	4.920	19.400	19.68	1.44
SAR04	2022/9/3	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE4 Sn1512	8.480	36.900	33.92	-8.08	4.710	19.400	18.84	-2.89
SAR03	2022/9/3	1750	50	D1750V2-1112	EX3DV4 - SN3925	DAE4 Sn376	1.710	36.900	34.2	-7.32	0.897	19.400	17.94	-7.53
SAR04	2022/9/9	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE4 Sn1512	8.460	36.900	33.84	-8.29	4.690	19.400	18.76	-3.30
SAR03	2022/9/9	1750	50	D1750V2-1112	EX3DV4 - SN3925	DAE4 Sn376	1.710	36.900	34.2	-7.32	0.895	19.400	17.9	-7.73
SAR04	2022/8/31	1900	50	D1900V2-5d185	ES3DV3 - SN3184	DAE4 Sn1512	2.020	39.000	40.4	3.59	1.050	20.400	21	2.94
SAR04	2022/9/2	1900	50	D1900V2-5d185	ES3DV3 - SN3184	DAE4 Sn1512	2.030	39.000	40.6	4.10	1.060	20.400	21.2	3.92
SAR03	2022/9/2	1900	50	D1900V2-5d185	EX3DV4 - SN3925	DAE4 Sn376	1.900	39.000	38	-2.56	0.981	20.400	19.62	-3.82
SAR04	2022/9/8	1900	50	D1900V2-5d185	ES3DV3 - SN3184	DAE4 Sn1512	2.000	39.000	40	2.56	1.050	20.400	21	2.94
SAR03	2022/9/8	1900	50	D1900V2-5d185	EX3DV4 - SN3925	DAE4 Sn376	1.880	39.000	37.6	-3.59	0.969	20.400	19.38	-5.00
SAR04	2022/8/11	2450	250	D2450V2-736	ES3DV3 - SN3184	DAE4 Sn1512	13.400	54.200	53.6	-1.11	6.470	25.300	25.88	2.29
SAR05	2022/8/13	2450	50	D2450V2-736	EX3DV4 - SN7306	DAE4 Sn853	2.700	54.200	54	-0.37	1.300	25.300	26	2.77
SAR03	2022/8/13	2450	50	D2450V2-736	EX3DV4 - SN3925	DAE4 Sn376	2.550	54.200	51	-5.90	1.190	25.300	23.8	-5.93
SAR03	2022/8/14	2450	50	D2450V2-736	EX3DV4 - SN3925	DAE4 Sn376	2.610	54.200	52.2	-3.69	1.220	25.300	24.4	-3.56
SAR04	2022/8/19	2600	250	D2600V2-1078	ES3DV3 - SN3184	DAE4 Sn1512	14.300	55.400	57.2	3.25	6.620	24.900	26.48	6.35
SAR04	2022/8/27	2600	250	D2600V2-1078	ES3DV3 - SN3184	DAE4 Sn1512	14.900	55.400	59.6	7.58	6.820	24.900	27.28	9.56
SAR04	2022/9/1	2600	250	D2600V2-1078	ES3DV3 - SN3184	DAE4 Sn1512	13.800	55.400	55.2	-0.36	6.590	24.900	26.36	5.86
SAR03	2022/9/1	2600	50	D2600V2-1078	EX3DV4 - SN3925	DAE4 Sn376	2.760	55.400	55.2	-0.36	1.250	24.900	25	0.40
SAR04	2022/9/10	2600	250	D2600V2-1078	ES3DV3 - SN3184	DAE4 Sn1512	13.300	55.400	53.2	-3.97	6.340	24.900	25.36	1.85
SAR03	2022/9/10	2600	50	D2600V2-1078	EX3DV4 - SN3925	DAE4 Sn376	2.660	55.400	53.2	-3.97	1.210	24.900	24.2	-2.81
SAR03	2022/8/26	3500	50	D3500V2-1036	EX3DV4 - SN3925	DAE4 Sn376	3.370	67.400	67.4	0.00	1.300	25.100	26	3.59
SAR03	2022/9/11	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn376	3.380	67.200	67.6	0.60	1.290	25.100	25.8	2.79
SAR03	2022/9/12	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn376	3.360	67.200	67.2	0.00	1.280	25.100	25.6	1.99
SAR03	2022/9/13	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn376	3.440	67.200	68.8	2.38	1.320	25.100	26.4	5.18
SAR03	2022/9/14	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn376	3.400	67.200	68	1.19	1.300	25.100	26	3.59
SAR03	2022/9/15	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn376	3.430	67.200	68.6	2.08	1.320	25.100	26.4	5.18
SAR06	2022/9/16	3500	100	D3500V2-1014	EX3DV4 - SN7350	DAE4 Sn1512	7.210	67.200	72.1	7.29	2.630	25.100	26.3	4.78
SAR06	2022/9/17	3500	50	D3500V2-1014	EX3DV4 - SN7350	DAE4 Sn1512	3.550	67.200	71	5.65	1.360	25.100	27.2	8.37
SAR06	2022/9/18	3500	50	D3500V2-1014	EX3DV4 - SN7350	DAE4 Sn1512	3.560	67.200	71.2	5.95	1.360	25.100	27.2	8.37
SAR06	2022/9/19	3500	100	D3500V2-1014	EX3DV4 - SN7350	DAE4 Sn1512	7.320	67.200	73.2	8.93	2.680	25.100	26.8	6.77
SAR03	2022/9/27	3500	50	D3500V2-1014	EX3DV4 - SN3925	DAE4 Sn376	3.420	67.200	68.4	1.79	1.320	25.100	26.4	5.18
SAR03	2022/8/26	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.470	68.200	69.4	1.76	1.290	24.700	25.8	4.45
SAR03	2022/9/11	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.440	68.200	68.8	0.88	1.280	24.700	25.6	3.64
SAR03	2022/9/12	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.450	68.200	69	1.17	1.280	24.700	25.6	3.64
SAR03	2022/9/13	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.140	68.200	62.8	-7.92	1.120	24.700	22.4	-9.31
SAR03	2022/9/14	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.100	68.200	62	-9.09	1.120	24.700	22.4	-9.31
SAR03	2022/9/15	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.530	68.200	70.6	3.52	1.310	24.700	26.2	6.07
SAR06	2022/9/16	3700	50	D3700V2-1022	EX3DV4 - SN7350	DAE4 Sn1512	3.480	68.200	69.6	2.05	1.300	24.700	26	5.26
SAR06	2022/9/17	3700	50	D3700V2-1022	EX3DV4 - SN7350	DAE4 Sn1512	3.460	68.200	69.2	1.47	1.290	24.700	25.8	4.45

SAR06	2022/9/18	3700	50	D3700V2-1022	EX3DV4 - SN7350	DAE4 Sn1512	3.470	68.200	69.4	1.76	1.290	24.700	25.8	4.45
SAR06	2022/9/19	3700	50	D3700V2-1006	EX3DV4 - SN7350	DAE4 Sn1512	3.490	65.600	69.8	6.40	1.280	23.700	25.6	8.02
SAR03	2022/9/27	3700	50	D3700V2-1022	EX3DV4 - SN3925	DAE4 Sn376	3.510	68.200	70.2	2.93	1.300	24.700	26	5.26
SAR03	2022/8/26	3900	50	D3900V2-1017-3900	EX3DV4 - SN3925	DAE4 Sn376	3.430	68.700	68.6	-0.15	1.230	23.900	24.6	2.93
SAR03	2022/9/15	3900	50	D3900V2-1017-3900	EX3DV4 - SN3925	DAE4 Sn376	3.490	68.700	69.8	1.60	1.250	23.900	25	4.60
SAR06	2022/9/16	3900	50	D3900V2-1017-3900	EX3DV4 - SN7350	DAE4 Sn1512	3.270	68.700	65.4	-4.80	1.170	23.900	23.4	-2.09
SAR06	2022/9/17	3900	50	D3900V2-1017-3900	EX3DV4 - SN7350	DAE4 Sn1512	3.260	68.700	65.2	-5.09	1.210	23.900	24.2	1.26
SAR06	2022/9/18	3900	50	D3900V2-1017-3900	EX3DV4 - SN7350	DAE4 Sn1512	3.250	68.700	65	-5.39	1.170	23.900	23.4	-2.09
SAR06	2022/9/19	3900	100	D3900V2-1017-3900	EX3DV4 - SN7350	DAE4 Sn1512	6.710	68.700	67.1	-2.33	2.430	23.900	24.3	1.67
SAR03	2022/9/27	3900	50	D3900V2-1017-3900	EX3DV4 - SN3925	DAE4 Sn376	3.470	68.700	69.4	1.02	1.240	23.900	24.8	3.77
SAR03	2022/8/15	5250	100	D5GHzV2-1171-5250	EX3DV4 - SN3925	DAE4 Sn376	7.680	80.300	76.8	-4.36	2.190	23.000	21.9	-4.78
SAR03	2022/8/16	5250	50	D5GHzV2-1171-5250	EX3DV4 - SN3925	DAE4 Sn376	3.770	80.300	75.4	-6.10	1.080	23.000	21.6	-6.09
SAR03	2022/8/17	5250	50	D5GHzV2-1171-5250	EX3DV4 - SN3925	DAE4 Sn376	4.050	80.300	81	0.87	1.170	23.000	23.4	1.74
SAR03	2022/8/15	5600	100	D5GHzV2-1171-5600	EX3DV4 - SN3925	DAE4 Sn376	8.150	83.400	81.5	-2.28	2.320	23.700	23.2	-2.11
SAR03	2022/8/16	5600	50	D5GHzV2-1171-5600	EX3DV4 - SN3925	DAE4 Sn376	4.230	83.400	84.6	1.44	1.210	23.700	24.2	2.11
SAR03	2022/8/17	5600	50	D5GHzV2-1171-5600	EX3DV4 - SN3925	DAE4 Sn376	4.330	83.400	86.6	3.84	1.240	23.700	24.8	4.64
SAR03	2022/8/15	5750	100	D5GHzV2-1171-5750	EX3DV4 - SN3925	DAE4 Sn376	7.950	80.400	79.5	-1.12	2.240	22.800	22.4	-1.75
SAR03	2022/8/16	5750	50	D5GHzV2-1171-5750	EX3DV4 - SN3925	DAE4 Sn376	3.900	80.400	78	-2.99	1.130	22.800	22.6	-0.88
SAR01	2022/8/25	6500	100	D6.5GHzV2-1003	EX3DV4 - SN3642	DAE4 Sn316	27.300	292.000	273	-6.51	5.190	53.800	51.9	-3.53
SAR01	2022/8/26	6500	100	D6.5GHzV2-1003	EX3DV4 - SN3642	DAE4 Sn316	29.300	292.000	293	0.34	5.260	53.800	52.6	-2.23

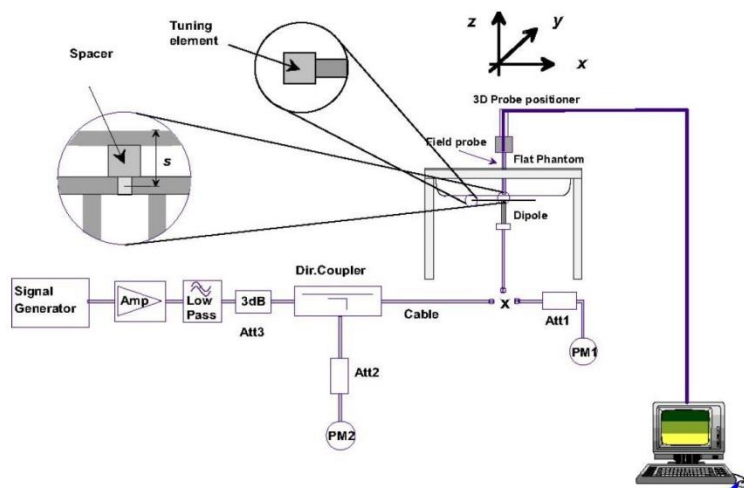


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10.3 PD System Performance Check Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes

Test Location	Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Measured 4 cm ² (W/m ²)	Targeted 4 cm ² (W/m ²)	Deviation (dB)	Date
SAR01-HY	10G	10GHz_1020	EUmmWV4 - SN9461	DAE4 Sn316	10mm	55.5	51.7	0.31	2022/8/22
SAR06-HY	10G	10GHz_1020	EUmmWV3 - SN9424	DAE4 Sn854	10mm	55.1	51.7	0.28	2022/11/9

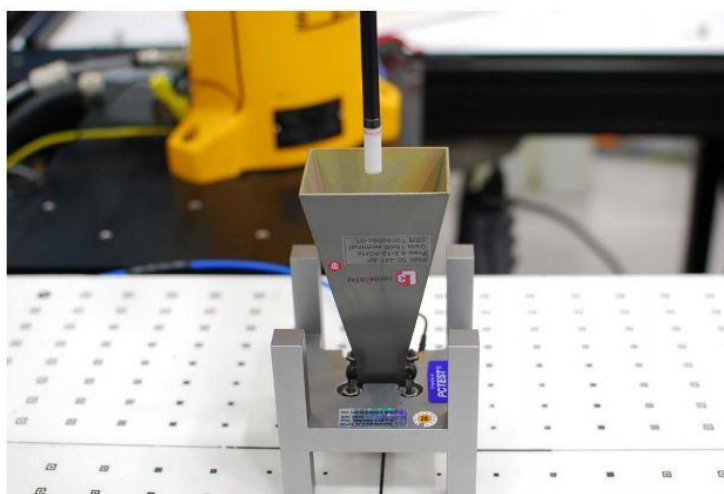


Figure 4-3
System Verification Setup Photo

System Performance Check Setup

11. RF Exposure Positions

11.1 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.

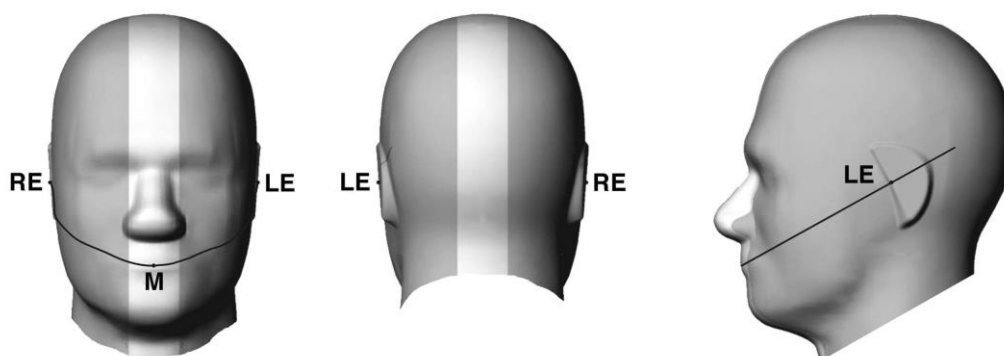


Fig 9.1.1 Front, back, and side views of SAM twin phantom

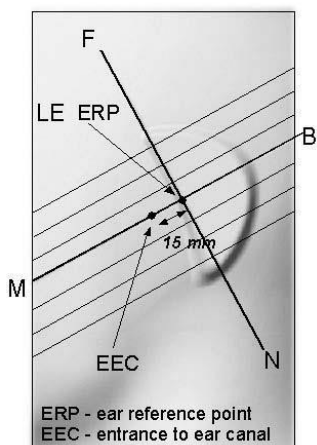


Fig 9.1.2 Close-up side view of phantom showing the ear region.

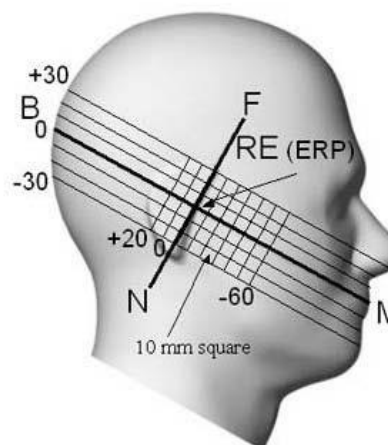


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 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.

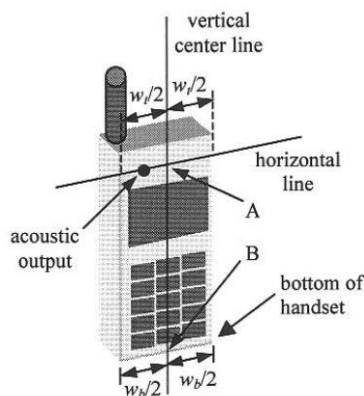


Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

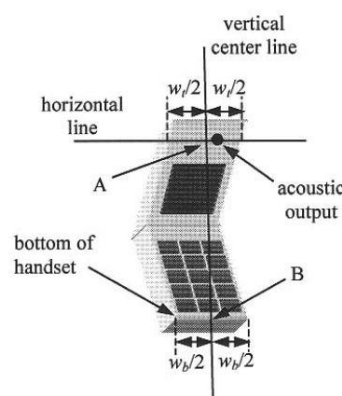


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

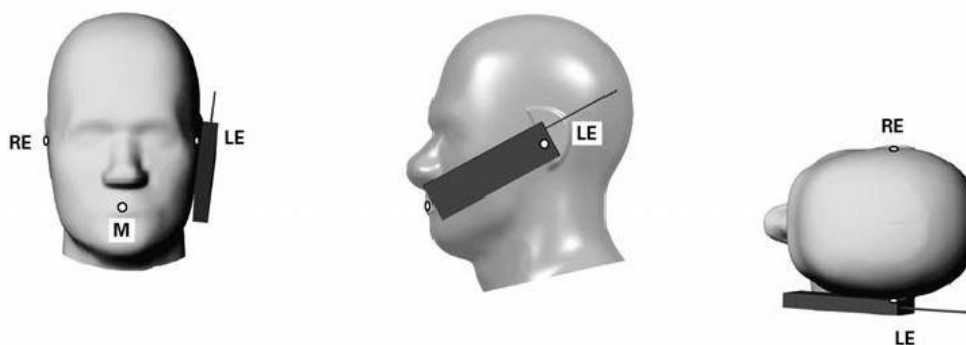


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 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

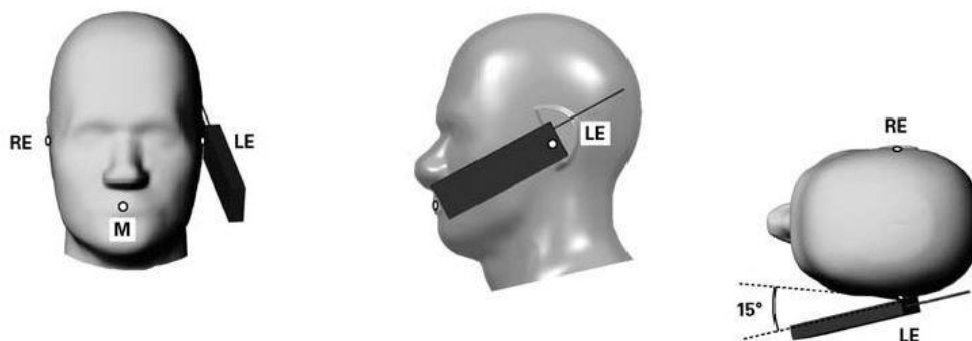


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 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 tested 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.

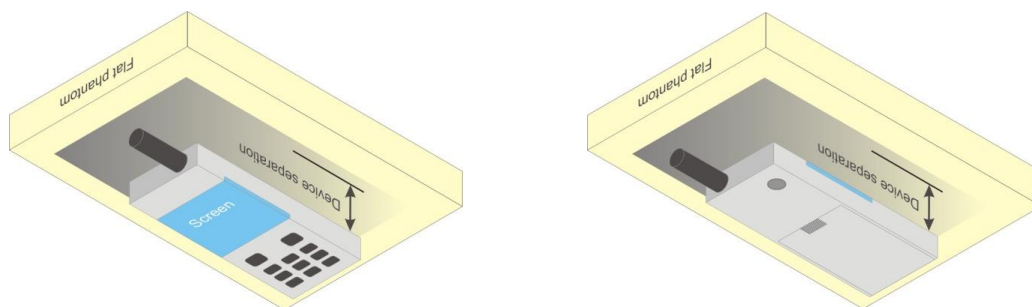


Fig 9.4 Body Worn Position

11.5 Product Specific Exposure

For smart phones with a display diagonal dimension $> 15.0 \text{ cm}$ or an overall diagonal dimension $> 16.0 \text{ cm}$ 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 $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for 10-g Product Specific 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 Product Specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2 \text{ W/kg}$.

**11.6 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 ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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.

12. Measurement procedure for output power and SAR

Detail output power measurement data is in the appendix G.

<GSM Conducted Power>

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/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

<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.
4. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
5. 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.

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 DPDCH, DPCCH 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

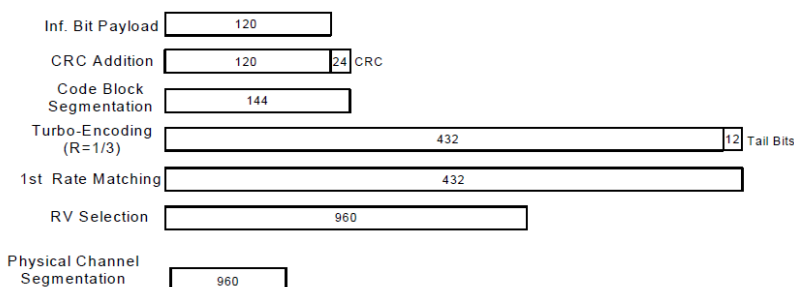
DC-HSDPA 3GPP release 8 Setup Configuration:

- 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 Factor 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

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

1. Anritsu MT8820C 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 B4/B5/B12/B17/B26/B38/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 was covered by Band 25/66/26/12/41; 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

<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.

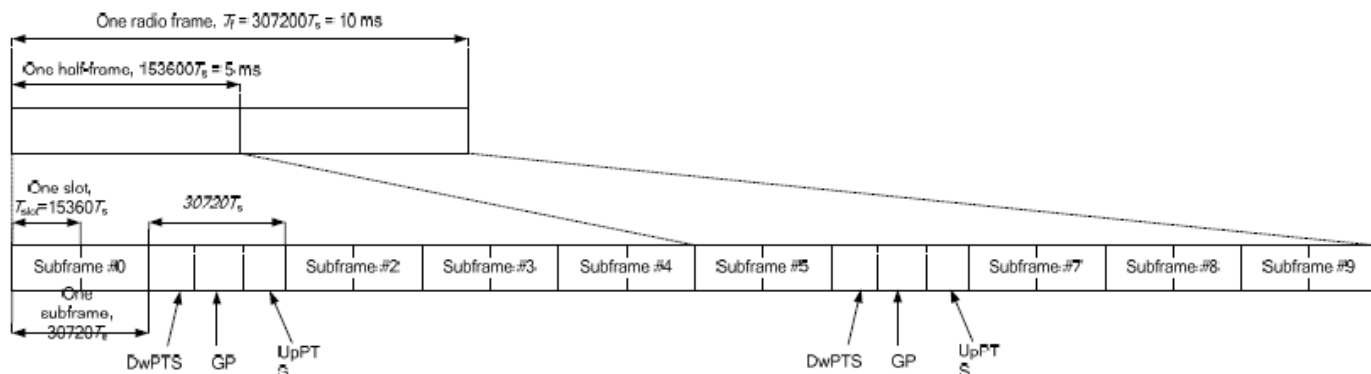


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- 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.
- 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.
- 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.

<5G FR1 Note>

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
 - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
 - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is ≤ 1.45 W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
 - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK 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. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
 - d. For Pi/2 BPSK with 100% RB allocation, SAR test 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.
 - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ 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, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
3. Ant 1/3/5/7/12 dedicated is used for SRS only, different from Tx antennas, then the SAR measurement at Plimit for SRS dedicated antenna(s) can be performed using FTM mode with CW modulation with 100% duty cycle(as SRS operates at very low duty cycle in online mode).
4. Since the 5G NR TDD PC2 and PC3 are using FTM mode for SAR testing and the duty cycle are the same 100% duty cycle, therefore, the SAR testing was selected higher power mode to be tested.

<3GPP 38.101 MPR for EN-DC>
Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	Pi/2 BPSK	≤ 3.5	≤ 0.5	0
	QPSK	≤ 3.5	≤ 1	0
	16 QAM	≤ 3.5	≤ 2	≤ 1
	64 QAM	≤ 3.5	≤ 2.5	
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3.5	≤ 3	≤ 1.5
	16 QAM	≤ 3.5	≤ 3	≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

**<WLAN Note>****General Note:**

1. The SISO operation only operate in 2.4GHz WLAN, the MIMO operation is support in 2.4GHz / 5GHz / 6GHz WLAN
2. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) 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 in the initial test configuration, additional output power measurements were not necessary.
3. 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.
4. 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).
5. 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.
6. 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 ≤ 0.4 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 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 ≤ 0.8 W/kg or all required test position are tested.
 - c. 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.
7. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
8. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
9. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
10. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel

13. DL/UL carrier aggregation

<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink only for inter and intra band. 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.

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation		
Number	Combination	Covered by	Number	Combination	Covered by	Number	Combination	Covered by
		Measurement Superset			Measurement Superset			Measurement Superset
1	CA_2C	3CC-63	56	CA_41D	4CC-153	153	CA_41E	4CC-118
2	CA_5B	3CC-64	57	CA_48D	4CC-154	154	CA_48E	4CC-156
3	CA_7B	3CC-65	58	CA_66D	4CC-165	155	CA_48A-48D	4CC-156
4	CA_7C	3CC-65	59	CA_41A-41C	4CC-153	156	CA_48C-48C	4CC-163
5	CA_12B	3CC-66	60	CA_48A-48C	4CC-154	157	CA_2A-2A-4A-4A	4CC-199
6	CA_38C	2CC-37	61	CA_66A-66B	4CC-165	158	CA_2A-2A-12A-12A	4CC-220
7	CA_41C	3CC-59	62	CA_66A-66C	4CC-165	159	CA_2A-2A-12B	4CC-220
8	CA_48C	3CC-60	63	CA_2A-2A-4A	4CC-157	160	CA_2A-2A-66A-66A	4CC-226
9	CA_66B	3CC-61	64	CA_2A-2A-5A	4CC-209	161	CA_2A-2A-66B	4CC-226
10	CA_66C	3CC-61	65	CA_2A-2A-7A	4CC-211	162	CA_2A-2A-66C	4CC-226
11	CA_2A-2A	3CC-63	66	CA_2A-2A-12A	4CC-158	163	CA_2A-48A-48C	4CC-232
12	CA_4A-4A	3CC-63	67	CA_2A-2A-13A	4CC-223	164	CA_2A-48D	4CC-232
13	CA_5A-5A	3CC-64	68	CA_2A-2A-14A	4CC-224	165	CA_2A-66A-66A-66A	4CC-226
14	CA_7A-7A	3CC-65	69	CA_2A-2A-66A	4CC-160	166	CA_2A-66A-66B	4CC-226
15	CA_12A-12A	3CC-66	70	CA_2A-2A-71A	4CC-199	167	CA_2A-66A-66C	4CC-226
16	CA_25A-25A	3CC-115	71	CA_2A-4A-4A	4CC-157	168	CA_2A-66D	4CC-226
17	CA_48A-48A	3CC-60	72	CA_2A-5B	4CC-209	169	CA_4A-4A-5B	4CC-209
18	CA_66A-66A	3CC-61	73	CA_2A-7A-7A	4CC-211	170	CA_4A-4A-12A-12A	4CC-212
19	CA_2A-4A	3CC-63	74	CA_2A-7C	4CC-211	171	CA_4A-4A-12B	4CC-212
20	CA_2A-5A	3CC-64	75	CA_2A-12A-12A	4CC-158	172	CA_5A-5A-66A-66A	4CC-216
21	CA_2A-7A	3CC-65	76	CA_2A-12B	4CC-158	173	CA_5A-5A-66B	4CC-216
22	CA_2A-12A	3CC-66	77	CA_2A-48A-48A	4CC-163	174	CA_5A-5A-66C	4CC-216
23	CA_2A-13A	3CC-67	78	CA_2A-48C	4CC-163	175	CA_5A-66A-66C	4CC-216
24	CA_2A-14A	3CC-68	79	CA_2A-66A-66A	4CC-162	176	CA_5A-66A-66B	4CC-216
25	CA_2A-17A		80	CA_2A-66B	4CC-162	177	CA_5A-66D	4CC-216
26	CA_2A-48A	3CC-77	81	CA_2A-66C	4CC-162	178	CA_5B-66A-66A	4CC-216
27	CA_2A-66A	3CC-81	82	CA_2C-5A	4CC-209	179	CA_5B-66B	4CC-216
28	CA_2A-71A	3CC-70	83	CA_2C-12A	4CC-158	180	CA_5B-66C	4CC-216
29	CA_4A-5A	3CC-85	84	CA_2C-66A	4CC-162	181	CA_7C-66A-66A	4CC-227
30	CA_4A-7A	3CC-86	85	CA_4A-4A-5A	4CC-169	182	CA_12B-66A-66A	4CC-220
31	CA_4A-12A	3CC-87	86	CA_4A-4A-7A	4CC-211	183	CA_13A-48A-48C	4CC-230
32	CA_4A-13A	3CC-88	87	CA_4A-4A-12A	4CC-170	184	CA_13A-48D	4CC-230
33	CA_4A-17A		88	CA_4A-4A-13A	3CC-127	185	CA_13A-66A-66B	4CC-223
34	CA_4A-71A	3CC-89	89	CA_4A-4A-71A	4CC-119	186	CA_13A-66A-66C	4CC-223
35	CA_5A-7A	3CC-96	90	CA_4A-5B	4CC-169	187	CA_13A-66D	4CC-223
36	CA_5A-25A		91	CA_4A-7A-7A	4CC-211	188	CA_25A-41D	
37	CA_5A-38A	3CC-146	92	CA_4A-7C	4CC-211	189	CA_48A-48A-66A-66A	4CC-230
38	CA_5A-41A		93	CA_4A-12A-12A	4CC-170	190	CA_48A-48A-66B	4CC-230
39	CA_5A-48A	3CC-142	94	CA_4A-12B	4CC-170	191	CA_48A-48A-66C	4CC-230
40	CA_5A-66A	3CC-98	95	CA_5A-5A-66A	4CC-216	192	CA_48A-48C-66A	4CC-230
41	CA_7A-12A	3CC-103	96	CA_5A-7A-7A	4CC-248	193	CA_48C-66B	4CC-230
42	CA_7A-26A	3CC-102	97	CA_5A-7C	4CC-248	194	CA_48C-66C	4CC-230
43	CA_7A-66A	3CC-104	98	CA_5A-66A-66A	4CC-216	195	CA_48D-66A	4CC-230
44	CA_12A-25A		99	CA_5A-66B	4CC-216	196	CA_66C-71A	4CC-226

45	CA_12A-66A	3CC-106	100	CA_5A-66C	4CC-216	197	CA_2A-2A-4A-5A	4CC-209
46	CA_13A-48A	3CC-109	101	CA_5B-66A	4CC-216	198	CA_2A-2A-4A-12A	4CC-212
47	CA_13A-66A	3CC-111	102	CA_7A-7A-26A		199	CA_2A-2A-4A-71A	
48	CA_14A-66A	3CC-114	103	CA_7A-12B	4CC-217	200	CA_2A-2A-5A-66A	4CC-216
49	CA_25A-26A	3CC-115	104	CA_7A-66A-66A	4CC-241	201	CA_2A-2A-7A-12A	4CC-217
50	CA_48A-66A	3CC-116	105	CA_7C-66A	4CC-241	202	CA_2A-2A-7A-66A	4CC-241
51	CA_48A-71A	3CC-117	106	CA_12A-66A-66A	4CC-220	203	CA_2A-2A-12A-66A	4CC-220
52	CA_66A-71A	3CC-123	107	CA_12A-66C	4CC-220	204	CA_2A-2A-13A-66A	4CC-223
53	CA_48B	3CC-117	108	CA_12B-66A	4CC-220	205	CA_2A-2A-14A-66A	4CC-224
54	CA_4A-48A	3CC-152	109	CA_13A-48A-48A	4CC-232	206	CA_2A-2A-66A-71A	4CC-226
55	CA_7A-13A	3CC-144	110	CA_13A-48C	4CC-232	207	CA_2A-4A-4A-5A	4CC-209
			111	CA_13A-66A-66A	4CC-223	208	CA_2A-4A-4A-12A	4CC-212
			112	CA_13A-66B	4CC-223	209	CA_2A-4A-5B	
			113	CA_13A-66C	4CC-223	210	CA_2A-4A-7A-7A	4CC-211
			114	CA_14A-66A-66A	4CC-224	211	CA_2A-4A-7C	
			115	CA_25A-25A-26A		212	CA_2A-4A-12B	
			116	CA_48A-48A-66A	4CC-230	213	CA_2A-5A-66A-66A	4CC-216
			117	CA_48A-48A-71A	3CC-122	214	CA_2A-5A-66B	4CC-216
			118	CA_48A-66A-66A	4CC-230	215	CA_2A-5A-66C	4CC-216
			119	CA_48A-66B	4CC-230	216	CA_2A-5B-66A	
			120	CA_48A-66C	4CC-230	217	CA_2A-7A-12B	
			121	CA_48C-66A	4CC-230	218	CA_2A-12A-66A-66A	4CC-220
			122	CA_48C-71A		219	CA_2A-12A-66C	4CC-220
			123	CA_66A-66A-71A	4CC-226	220	CA_2A-12B-66A	
			124	CA_2A-4A-5A	4CC-209	221	CA_2A-13A-66A-66A	4CC-223
			125	CA_2A-4A-7A	4CC-211	222	CA_2A-13A-66B	4CC-223
			126	CA_2A-4A-12A	4CC-212	223	CA_2A-13A-66C	
			127	CA_2A-4A-13A		224	CA_2A-14A-66A-66A	
			128	CA_2A-4A-71A	4CC-199	225	CA_2A-66A-66A-71A	4CC-226
			129	CA_2A-5A-66A	4CC-216	226	CA_2A-66C-71A	
			130	CA_2A-7A-12A	4CC-217	227	CA_7A-12B-66A	
			131	CA_2A-7A-66A	4CC-241	228	CA_13A-48C-66A	4CC-230
			132	CA_2A-12A-66A	4CC-220	229	CA_13A-48A-66B	4CC-230
			133	CA_2A-13A-66A	4CC-223	230	CA_13A-48A-66C	
			134	CA_2A-14A-66A	4CC-224	231	CA_14A-66A-66A-66A	4CC-224
			135	CA_2A-48A-66A	4CC-235	232	CA_2A-13A-48C	
			136	CA_2A-66A-71A	4CC-226	233	CA_2A-2A-5B	4CC-216
			137	CA_4A-7A-12A		234	CA_2A-48A-66A-66A	4CC-235
			138	CA_7A-12A-66A	4CC-227	235	CA_2A-48C-66A	
			139	CA_13A-48A-66A	4CC-230	236	CA_2A-5A-48C	
			140	CA_25A-25A-25A	3CC-115	237	CA_2A-7A-66A-66A	4CC-241
			141	CA_2A-13A-48A	4CC-232	238	CA_2A-7A-7A-13A	4CC-240
			142	CA_2A-5A-48A	4CC-236	239	CA_2A-7A-7A-66A	4CC-241
			143	CA_2A-5A-7A		240	CA_2A-7C-13A	
			144	CA_2A-7A-13A	4CC-240	241	CA_2A-7C-66A	
			145	CA_5A-48A-66A	4CC-245	242	CA_2C-66A-66A	4CC-241
			146	CA_5A-48C	4CC-245	243	CA_48C-66A-66A	4CC-235
			147	CA_5A-7A-66A	4CC-248	244	CA_4A-48D	
			148	CA_66A-66A-66A	4CC-248	245	CA_5A-48C-66A	
			149	CA_7A-7A-13A	4CC-240	246	CA_5A-48D	4CC-245
			150	CA_7A-7A-66A	4CC-241	247	CA_5A-7A-66A-66A	4CC-248
			151	CA_7C-13A	4CC-240	248	CA_5A-7C-66A	
			152	CA_4A-48C	4CC-244	249	CA_7A-7A-66A-66A	4CC-248

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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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	2	20	1880	18900	QPSK	1	0	17	10	740	5790	24.21	24.31
	4	20	1732.5	20175	QPSK	1	0	17	10	740	5790	24.51	24.63
	5	10	836.5	20525	QPSK	1	0	25	20	1960	8340	23.76	23.93
	5	10	836.5	20525	QPSK	1	0	41	20	2593	40620	23.84	23.93
	12	10	707.5	23095	QPSK	1	0	25	20	1960	8340	23.59	23.63

<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)
Intra-Band	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	13	10	751	5230	24.26	24.31
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	7	20	2655	3100	24.22	24.31
	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	12	10	737.5	5095	24.48	24.63
	7	20	2560	21350	QPSK	1	0	7	20	2655	3100	26	15	876.5	8865	22.89	23.05
	25	20	1905	26590	QPSK	1	0	25	20	1960	8340	26	15	876.5	8865	24.33	24.46
Intra-Band Contiguous	48	20	3690	56640	QPSK	1	0	48	20	3600	55740	71	20	634.5	68761	21.62	21.76



<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	20	1980	1100	4	20	2132.5	2175	71	20	634.5	68761	24.22	24.31
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	5	10	891.4	2624	24.18	24.31
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	7	20	2655	3100	7	20	2674.8	3298	24.06	24.31
	2	20	1880	18900	QPSK	1	0	4	20	2132.5	2175	12	5	737.5	5095	12	10	744.7	5837	24.26	24.31
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	48	20	3600	55740	48	20	3619.8	55938	24.13	24.31
	2	20	1880	18900	QPSK	1	0	5	10	881.5	2525	5	10	891.5	2625	66	20	2155	66886	24.09	24.31
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	12	5	737.5	5095	12	10	744.7	5837	23.99	24.31
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	13	10	751	5230	24.05	24.31
	2	20	1880	18900	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	66	20	2155	66886	24.11	24.31
	2	20	1880	18900	QPSK	1	0	12	5	737.5	5095	12	10	744.7	5837	66	20	2155	66886	24.24	24.31
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	48	20	3600	55740	48	20	3619.8	55938	23.97	24.31
	2	20	1880	18900	QPSK	1	0	13	10	751	5230	66	20	2155	66886	66	20	2174.8	67084	24.06	24.31
	2	20	1880	18900	QPSK	1	0	14	10	763	5330	66	20	2155	66886	66	5	2199.3	67329	24.21	24.31
	2	20	1880	18900	QPSK	1	0	48	20	3600	55740	48	20	3619.8	55938	66	20	2155	66886	24.19	24.31
	2	20	1880	18900	QPSK	1	0	66	20	2155	66886	66	20	2174.8	67084	71	20	634.5	68761	24.27	24.31
	4	20	1732.5	20175	QPSK	1	0	48	20	3600	55740	48	20	3619.8	55938	48	20	3639.6	56136	24.55	24.63
	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	7	20	2674.8	3298	66	20	2155	66886	23.81	23.93
	5	10	836.5	20525	QPSK	1	0	48	20	3600	55740	48	20	3639.6	56136	66	20	2155	66866	23.75	23.93
	7	20	2560	21350	QPSK	1	0	12	5	737.5	5095	12	10	744.7	5837	66	20	2155	66866	22.95	23.05
	13	10	782	23230	QPSK	1	0	48	20	3600	55740	66	20	2155	66866	66	20	2174.8	67084	22.99	23.26
	25	20	1905	26590	QPSK	1	0	41	20	2593	40620	41	20	2612.8	40818	41	20	2632.6	41016	24.31	24.46

<LTE Uplink carrier aggregation>

<Intra-band>

2CC Carrier Aggregation	
UL_CA	
5B	Ant 4
7C	Ant 6
38C	Ant 6
41C	Ant 6
48C	Ant 11
66B	Ant 4
66C	Ant 4

General Note:

- i. The device supports intra-band uplink carrier aggregation with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iv. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- v. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

DSI 0

WLAN ON/OFF										
CA_5B_Ant 4										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	23.65	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.98	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.87	25.2

WLAN ON/OFF										
CA_7C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.88	24
21100	20902	QPSK	1	0	1	99	2	0	23.32	24
21350	21152	QPSK	1	0	1	99	2	0	23.84	24

WLAN ON/OFF										
CA_66B_Ant 4										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.98	25.2
132322	132229	QPSK	1	0	1	24	2	0	24.7	25.2
132597	132504	QPSK	1	0	1	24	2	0	25.2	25.2

WLAN ON/OFF										
CA_66C_Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	23.62	25.2
132322	132124	QPSK	1	0	1	99	2	0	24.62	25.2
132572	132374	QPSK	1	0	1	99	2	0	23.51	25.2

WLAN ON/OFF										
CA_38C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	24.11	24.5
37901	38099	QPSK	1	0	0	0	1	0	24.1	24.5
38150	37952	QPSK	1	0	1	99	2	0	24.5	24.5

WLAN ON/OFF										
CA_41C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.77	25
40185	39987	QPSK	1	0	1	99	2	0	24.43	25
40620	40422	QPSK	1	0	1	99	2	0	24.65	25
41055	40857	QPSK	1	0	1	99	2	0	24.79	25
41490	41292	QPSK	1	0	1	99	2	0	24.88	25

WLAN ON/OFF										
CA_41C_HPUE_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	25.51	27
40185	39987	QPSK	1	0	1	99	2	0	26.13	27
40620	40422	QPSK	1	0	1	99	2	0	26.35	27
41055	40857	QPSK	1	0	1	99	2	0	26.42	27
41490	41292	QPSK	1	0	1	99	2	0	26.6	27

WLAN ON/OFF										
CA_48C_Ant 11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	20.75	22
55830	55632	QPSK	1	0	1	99	2	0	21.8	22
56150	55952	QPSK	1	0	1	99	2	0	21.72	22
56640	56442	QPSK	1	0	1	99	2	0	21.71	22

DSI 1

WLAN ON/OFF										
CA_5B_Ant 4										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	23.65	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.98	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.87	25.2

WLAN ON/OFF										
CA_7C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.88	24
21100	20902	QPSK	1	0	1	99	2	0	23.32	24
21350	21152	QPSK	1	0	1	99	2	0	23.84	24

WLAN ON										
CA_66B_Ant 4										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.44	24.6
132322	132229	QPSK	1	0	1	24	2	0	24.39	24.6
132597	132504	QPSK	1	0	1	24	2	0	24.58	24.6

WLAN OFF										
CA_66B_Ant 4										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.44	24.7
132322	132229	QPSK	1	0	1	24	2	0	24.39	24.7
132597	132504	QPSK	1	0	1	24	2	0	24.58	24.7

WLAN ON										
CA_66C_Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	23.44	24.6
132322	132124	QPSK	1	0	1	99	2	0	23.94	24.6
132572	132374	QPSK	1	0	1	99	2	0	24.07	24.6

WLAN OFF										
CA_66C_Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	23.44	24.7
132322	132124	QPSK	1	0	1	99	2	0	23.94	24.7
132572	132374	QPSK	1	0	1	99	2	0	24.07	24.7

WLAN ON/OFF										
CA_38C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	24.11	25
37901	38099	QPSK	1	0	0	0	1	0	24.1	25
38150	37952	QPSK	1	0	1	99	2	0	24.75	25

WLAN ON/OFF										
CA_41C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.77	25
40185	39987	QPSK	1	0	1	99	2	0	24.43	25
40620	40422	QPSK	1	0	1	99	2	0	24.65	25
41055	40857	QPSK	1	0	1	99	2	0	24.79	25
41490	41292	QPSK	1	0	1	99	2	0	24.88	25

WLAN ON/OFF										
CA_41C_HPUE_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	25.51	27
40185	39987	QPSK	1	0	1	99	2	0	26.13	27
40620	40422	QPSK	1	0	1	99	2	0	26.35	27
41055	40857	QPSK	1	0	1	99	2	0	26.42	27
41490	41292	QPSK	1	0	1	99	2	0	26.6	27

WLAN ON/OFF										
CA_48C_Ant 11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	20.75	22
55830	55632	QPSK	1	0	1	99	2	0	21.8	22
56150	55952	QPSK	1	0	1	99	2	0	21.72	22
56640	56442	QPSK	1	0	1	99	2	0	21.71	22

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WLAN ON										
CA_5B_Ant 4										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	22.74	23.7
20475	20574	QPSK	1	49	1	0	2	0	23.24	23.7
20600	20501	QPSK	1	0	1	49	2	0	23.31	23.7

WLAN OFF										
CA_5B_Ant 4										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	22.74	24.7
20475	20574	QPSK	1	49	1	0	2	0	23.24	24.7
20600	20501	QPSK	1	0	1	49	2	0	23.31	24.7

WLAN ON										
CA_7C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.08	23.1
21100	20902	QPSK	1	0	1	99	2	0	22.37	23.1
21350	21152	QPSK	1	0	1	99	2	0	22.81	23.1

WLAN OFF										
CA_7C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.08	24
21100	20902	QPSK	1	0	1	99	2	0	22.37	24
21350	21152	QPSK	1	0	1	99	2	0	22.81	24

WLAN ON/OFF										
CA_66B_Ant 4										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	23.44	24.7
132322	132229	QPSK	1	0	1	24	2	0	24.39	24.7
132597	132504	QPSK	1	0	1	24	2	0	24.58	24.7

WLAN ON/OFF										
CA_66C_Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	23.44	24.7
132322	132124	QPSK	1	0	1	99	2	0	23.94	24.7
132572	132374	QPSK	1	0	1	99	2	0	24.07	24.7

WLAN ON/OFF										
CA_38C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	23.18	24.5
37901	38099	QPSK	1	0	0	0	1	0	23.11	24.5
38150	37952	QPSK	1	0	1	99	2	0	23.91	24.5

WLAN ON										
CA_41C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.87	24.5
40185	39987	QPSK	1	0	1	99	2	0	23.53	24.5
40620	40422	QPSK	1	0	1	99	2	0	23.73	24.5
41055	40857	QPSK	1	0	1	99	2	0	23.89	24.5
41490	41292	QPSK	1	0	1	99	2	0	23.96	24.5

WLAN OFF										
CA_41C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.87	24.6
40185	39987	QPSK	1	0	1	99	2	0	23.53	24.6
40620	40422	QPSK	1	0	1	99	2	0	23.73	24.6
41055	40857	QPSK	1	0	1	99	2	0	23.89	24.6
41490	41292	QPSK	1	0	1	99	2	0	23.96	24.6

WLAN ON										
CA_41C_HPUE_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	24.75	26.1
40185	39987	QPSK	1	0	1	99	2	0	25.37	26.1
40620	40422	QPSK	1	0	1	99	2	0	25.59	26.1
41055	40857	QPSK	1	0	1	99	2	0	25.66	26.1
41490	41292	QPSK	1	0	1	99	2	0	25.84	26.1

WLAN OFF										
CA_41C_HPUE_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	24.75	26.6
40185	39987	QPSK	1	0	1	99	2	0	25.37	26.6
40620	40422	QPSK	1	0	1	99	2	0	25.59	26.6
41055	40857	QPSK	1	0	1	99	2	0	25.66	26.6
41490	41292	QPSK	1	0	1	99	2	0	25.84	26.6

WLAN ON										
CA_48C_Ant 11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	20.43	21
55830	55632	QPSK	1	0	1	99	2	0	20.54	21
56150	55952	QPSK	1	0	1	99	2	0	20.46	21
56640	56442	QPSK	1	0	1	99	2	0	20.42	21

WLAN OFF										
CA_48C_Ant 11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	20.43	22
55830	55632	QPSK	1	0	1	99	2	0	20.54	22
56150	55952	QPSK	1	0	1	99	2	0	20.46	22
56640	56442	QPSK	1	0	1	99	2	0	20.42	22

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WLAN ON/OFF										
CA_5B_Ant 4										
Combination 10MHz+10MHz (50RB+50RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	23.65	25.2
20475	20574	QPSK	1	49	1	0	2	0	24.98	25.2
20600	20501	QPSK	1	0	1	49	2	0	24.87	25.2

WLAN ON										
CA_7C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	21.88	23.1
21100	20902	QPSK	1	0	1	99	2	0	22.37	23.1
21350	21152	QPSK	1	0	1	99	2	0	22.81	23.1

WLAN OFF										
CA_7C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	22.08	24
21100	20902	QPSK	1	0	1	99	2	0	22.37	24
21350	21152	QPSK	1	0	1	99	2	0	22.81	24

WLAN ON/OFF										
CA_66B_Ant 4										
Combination 15MHz+5MHz (75RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132047	132140	QPSK	1	0	0	0	1	0	21.96	23.3
132322	132229	QPSK	1	0	1	24	2	0	22.78	23.3
132597	132504	QPSK	1	0	1	24	2	0	23.07	23.3

WLAN ON/OFF										
CA_66C_Ant 4										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
132072	132270	QPSK	1	0	0	0	1	0	22.03	23.3
132322	132124	QPSK	1	0	1	99	2	0	22.53	23.3
132572	132374	QPSK	1	0	1	99	2	0	22.62	23.3

WLAN ON/OFF										
CA_38C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
37850	38048	QPSK	1	0	0	0	1	0	22.28	23.7
37901	38099	QPSK	1	0	0	0	1	0	22.18	23.7
38150	37952	QPSK	1	0	1	99	2	0	23.03	23.7

WLAN ON										
CA_41C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	21.96	23.7
40185	39987	QPSK	1	0	1	99	2	0	22.59	23.7
40620	40422	QPSK	1	0	1	99	2	0	22.84	23.7
41055	40857	QPSK	1	0	1	99	2	0	22.92	23.7
41490	41292	QPSK	1	0	1	99	2	0	23.06	23.7

WLAN OFF										
CA_41C_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	22.16	24
40185	39987	QPSK	1	0	1	99	2	0	22.59	24
40620	40422	QPSK	1	0	1	99	2	0	22.84	24
41055	40857	QPSK	1	0	1	99	2	0	22.92	24
41490	41292	QPSK	1	0	1	99	2	0	23.06	24

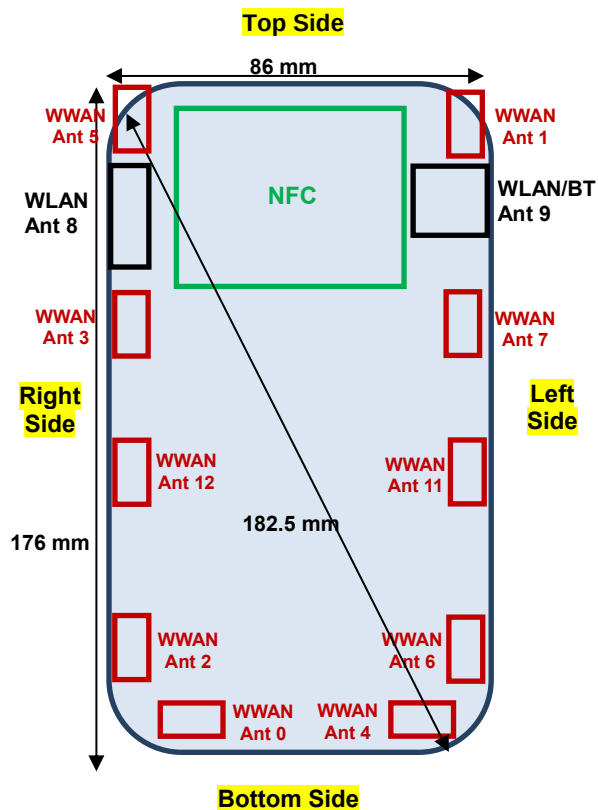
WLAN ON										
CA_41C_HPUE_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.96	25.3
40185	39987	QPSK	1	0	1	99	2	0	24.67	25.3
40620	40422	QPSK	1	0	1	99	2	0	24.88	25.3
41055	40857	QPSK	1	0	1	99	2	0	24.9	25.3
41490	41292	QPSK	1	0	1	99	2	0	25.1	25.3

WLAN OFF										
CA_41C_HPUE_Ant 6										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	24.26	26.2
40185	39987	QPSK	1	0	1	99	2	0	24.67	26.2
40620	40422	QPSK	1	0	1	99	2	0	24.88	26.2
41055	40857	QPSK	1	0	1	99	2	0	24.9	26.2
41490	41292	QPSK	1	0	1	99	2	0	25.1	26.2

WLAN ON										
CA_48C_Ant 11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	19.93	21.1
55830	55632	QPSK	1	0	1	99	2	0	20.54	21.1
56150	55952	QPSK	1	0	1	99	2	0	20.46	21.1
56640	56442	QPSK	1	0	1	99	2	0	20.42	21.1

WLAN OFF										
CA_48C_Ant 11										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
55340	55538	QPSK	1	0	0	0	1	0	19.93	21.9
55830	55632	QPSK	1	0	1	99	2	0	20.54	21.9
56150	55952	QPSK	1	0	1	99	2	0	20.46	21.9
56640	56442	QPSK	1	0	1	99	2	0	20.42	21.9

14. Antenna Location



Back View

Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 1	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm
WWAN Ant 2	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 3	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 4	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 5	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm
WWAN Ant 6	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 7	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 11	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Ant 12	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
BT&WLAN	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm

Positions for SAR and PD tests; Hotspot and Extremity exposure condition						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Ant 0	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 1	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 2	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 3	Yes	Yes	Yes	Yes	Yes	Yes
WWAN Ant 4	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 5	Yes	Yes	Yes	No	Yes	Yes
WWAN Ant 6	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 7	Yes	Yes	Yes	Yes	Yes	Yes
WWAN Ant 11	Yes	Yes	No	Yes	Yes	Yes
WWAN Ant 12	Yes	Yes	No	Yes	Yes	Yes
BT&WLAN	Yes	Yes	Yes	No	Yes	Yes

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm. RF Exposure must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge

15. 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 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, for this device SAR for WWAN transmitter scaled to maximum output power is higher than 1.2W/kg of LTE B41/B48, NR n77/n77HPUE, therefore, product specific SAR is necessary.
5. For 5.3GHz / 5.5GHz / 6GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.

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/GSM1900 is 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.
3. Power reduction which is triggered by hotspot mode is implemented in GSM1900 band, for hotspot mode SAR testing EUT was set in reduced power mode and GPRS 1 Tx slot due to its highest frame-average power.

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.

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 B4/B5/B12/B17/B26/B38/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 was covered by Band 25/66/26/12/41; according to 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.

5G NR Note:

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below:
 - a. To start SAR test for the largest channel bandwidth for PI/2 BPSK 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. Also do SAR test for 50% RB allocation for PI/2 BPSK SAR testing using 1RB PI/2 BPSK allocation procedure
 - b. For PI/2 BPSK with 100% RB allocation, SAR test 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.
 - c. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not $\frac{1}{2}$ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - d. Smaller bandwidth output power for each RB allocation configuration for this device 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, smaller bandwidth SAR testing is not required for this device.
 - e. For 5G FR1 n5/n41/n71/n77, the maximum channel bandwidth does not support three non-overlapping channels in the frequency band, the middle channel of the group of overlapping channels were selected for testing.
 - f. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
 - g. Ant 1/3/5/7/12 dedicated is used for SRS only, different from Tx antennas, then the SAR measurement at Plimit for SRS dedicated antenna(s) can be performed using FTM mode with CW modulation with 100% duty cycle(as SRS operates at very low duty cycle in online mode).

WLAN Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not 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, WLAN5.2GHz SAR testing is not required when the WLAN5.3GHz band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WLAN5.2GHz 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 closet/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. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.
6. The SISO operation only operate in 2.4GHz WLAN, the MIMO operation is support in 2.4GHz / 5GHz / 6GHz WLAN
7. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

WLAN PD Note:

1. The WiFi 6E PD was performed according 2020 TCB workshop RF Exposure 5G RFX Policies Interim Procedures.
2. First, evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020 and using highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane).
3. Per Interim Procedures. The power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty $> 30\%$. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor
4. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
6. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
7. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
8. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

**15.1 Head SAR****<GSM SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
01	GSM850_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	128	824.2	29.71	30.50	1.199	0.16	0.153	0.184
	GSM850_Ant 4	GPRS (4 Tx slots)	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	128	824.2	29.71	30.50	1.199	-0.17	0.110	0.132
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	128	824.2	29.71	30.50	1.199	-0.16	0.177	0.212
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	128	824.2	29.71	30.50	1.199	0.09	0.120	0.144
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	189	836.4	29.70	30.50	1.202	0.09	0.302	0.363
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	251	848.8	29.47	30.50	1.268	0.19	0.257	0.326
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	189	836.4	29.70	30.50	1.202	0.03	0.281	0.338
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	189	836.4	29.70	30.50	1.202	0.07	0.283	0.340
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	189	836.4	29.70	30.50	1.202	-0.06	0.266	0.320
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	189	836.4	29.70	30.50	1.202	-0.09	0.244	0.293
	GSM850_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	128	824.2	29.71	29.90	1.045	0.16	0.153	0.160
	GSM850_Ant 4	GPRS (4 Tx slots)	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	128	824.2	29.71	29.90	1.045	-0.17	0.110	0.115
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	128	824.2	29.71	29.90	1.045	-0.16	0.177	0.185
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	128	824.2	29.71	29.90	1.045	0.09	0.120	0.125
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	189	836.4	29.70	29.90	1.047	0.09	0.302	0.316
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	251	848.8	29.47	29.90	1.104	0.19	0.257	0.284
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	189	836.4	29.70	29.90	1.047	0.03	0.281	0.294
02	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	189	836.4	29.70	29.90	1.047	0.07	0.283	0.296
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	189	836.4	29.70	29.90	1.047	-0.06	0.266	0.279
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	189	836.4	29.70	29.90	1.047	-0.09	0.244	0.255
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	0.18	0.058	0.086
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	0.01	0.001	0.001
	GSM1900_Ant 4	GPRS (4 Tx slots)	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	-0.05	0.040	0.059
	GSM1900_Ant 4	GPRS (4 Tx slots)	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	0.13	0.001	0.001
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	512	1850.2	25.59	27.50	1.552	-0.12	0.041	0.064
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	0.11	0.048	0.073
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	0.12	0.052	0.077
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	0.07	0.048	0.071
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	-0.14	0.086	0.127
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	-0.13	0.045	0.067



FCC SAR TEST REPORT

Report No. : FA271554A

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	9400	1880	24.12	25.20	1.282	-0.06	0.213	0.273
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	9400	1880	24.12	25.20	1.282	-0.15	0.083	0.106
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	9400	1880	24.12	25.20	1.282	0.12	0.157	0.201
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	9400	1880	24.12	25.20	1.282	-0.14	0.081	0.104
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	9262	1852.4	24.02	25.20	1.312	-0.07	0.312	0.409
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	0.13	0.119	0.156
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	9262	1852.4	24.02	25.20	1.312	0.04	0.297	0.390
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	9262	1852.4	24.02	25.20	1.312	-0.01	0.285	0.374
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	9262	1852.4	24.02	25.20	1.312	0.03	0.251	0.329
03	WCDMA II_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	9262	1852.4	24.02	25.20	1.312	-0.17	0.362	0.475
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	1413	1732.6	23.76	25.20	1.393	0	0.441	0.614
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	1413	1732.6	23.76	25.20	1.393	-0.17	0.127	0.177
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	1413	1732.6	23.76	25.20	1.393	-0.01	0.275	0.383
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	1413	1732.6	23.76	25.20	1.393	-0.04	0.120	0.167
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	1312	1712.4	23.66	25.20	1.426	0.16	0.349	0.498
04	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.03	0.467	0.700
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	0.18	0.442	0.663
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.09	0.451	0.676
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.1	0.457	0.685
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	0.19	0.441	0.661
	WCDMA V_Ant 4	RMC 12.2Kbps	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	4182	836.4	24.70	25.20	1.122	-0.08	0.269	0.302
	WCDMA V_Ant 4	RMC 12.2Kbps	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	4182	836.4	24.70	25.20	1.122	0.18	0.162	0.182
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	4182	836.4	24.70	25.20	1.122	-0.08	0.282	0.316
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	4182	836.4	24.70	25.20	1.122	-0.15	0.233	0.261
05	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	4132	826.4	24.60	25.20	1.148	0.09	0.294	0.338
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	4233	846.6	24.64	25.20	1.138	0.07	0.142	0.162
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	4132	826.4	24.60	25.20	1.148	0.06	0.275	0.316
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	4132	826.4	24.60	25.20	1.148	0.18	0.263	0.302
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	4132	826.4	24.60	25.20	1.148	0.11	0.276	0.317
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	4132	826.4	24.60	25.20	1.148	-0.03	0.277	0.318



FCC SAR TEST REPORT

Report No. : FA271554A

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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_Ant 6	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	0.15	0.127	0.158
	LTE Band 7_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	22.19	23.00	1.205	-0.18	0.083	0.100
	LTE Band 7_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	-0.17	0.072	0.090
	LTE Band 7_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	22.19	23.00	1.205	-0.08	0.048	0.058
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	0.07	0.327	0.407
	LTE Band 7_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	22.19	23.00	1.205	0.09	0.207	0.249
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	-0.04	0.100	0.124
	LTE Band 7_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	22.19	23.00	1.205	0.14	0.069	0.083
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	20850	2510	22.86	24.00	1.300	-0.03	0.302	0.393
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21100	2535	22.64	24.00	1.368	0.05	0.287	0.393
	LTE Band 7C_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	21350	2560	22.81	24.00	1.315	0.15	0.255	0.335
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	0.18	0.315	0.392
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	-0.06	0.288	0.358
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	-0.13	0.249	0.310
06	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	21350	2560	23.05	24.00	1.245	-0.16	0.386	0.480
	LTE Band 7_Ant 6	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	0.15	0.127	0.128
	LTE Band 7_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	22.19	23.00	1.205	-0.18	0.083	0.100
	LTE Band 7_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	-0.17	0.072	0.073
	LTE Band 7_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	22.19	23.00	1.205	-0.08	0.048	0.058
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	0.07	0.327	0.331
	LTE Band 7_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	22.19	23.00	1.205	0.09	0.207	0.249
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	-0.04	0.100	0.101
	LTE Band 7_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	22.19	23.00	1.205	0.14	0.069	0.083
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	20850	2510	22.86	23.10	1.057	-0.03	0.302	0.319
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21100	2535	22.64	23.10	1.112	0.05	0.287	0.319
	LTE Band 7C_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	21350	2560	22.81	23.10	1.069	0.15	0.255	0.273
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	0.18	0.315	0.319
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	-0.06	0.288	0.291
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	-0.13	0.249	0.252
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	21350	2560	23.05	23.10	1.012	-0.16	0.386	0.390
07	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	-0.14	0.271	0.347
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	22.71	23.70	1.256	-0.12	0.222	0.279
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.04	0.159	0.203
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	22.71	23.70	1.256	-0.06	0.129	0.162
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	-0.13	0.239	0.306
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	22.71	23.70	1.256	-0.19	0.190	0.239
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	-0.08	0.151	0.193
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	22.71	23.70	1.256	-0.08	0.125	0.157
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	-0.07	0.243	0.311
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.15	0.231	0.296
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	-0.05	0.248	0.317
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.08	0.264	0.338



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
08	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	-0.18	0.243	0.323
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	22.39	23.50	1.291	-0.03	0.201	0.260
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.07	0.152	0.202
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	22.39	23.50	1.291	0.09	0.133	0.172
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	-0.04	0.122	0.162
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	22.39	23.50	1.291	-0.04	0.104	0.134
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.13	0.097	0.129
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23230	782	22.39	23.50	1.291	0.09	0.087	0.112
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	-0.01	0.221	0.294
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.12	0.195	0.259
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	-0.13	0.175	0.233
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.13	0.191	0.254
09	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.1	0.377	0.510
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	22.44	23.70	1.337	0.02	0.302	0.404
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.1	0.247	0.334
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	22.44	23.70	1.337	-0.06	0.197	0.263
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.01	0.214	0.289
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	22.44	23.70	1.337	-0.11	0.099	0.132
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.1	0.170	0.230
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	23330	793	22.44	23.70	1.337	0.06	0.135	0.180
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.08	0.355	0.480
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.11	0.321	0.434
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.15	0.337	0.456
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.04	0.306	0.414
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	24.46	25.20	1.186	-0.19	0.195	0.231
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.57	24.20	1.156	-0.03	0.151	0.175
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	24.46	25.20	1.186	-0.02	0.087	0.103
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.57	24.20	1.156	0.15	0.066	0.076
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	24.46	25.20	1.186	-0.18	0.151	0.179
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.57	24.20	1.156	-0.17	0.114	0.132
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	24.46	25.20	1.186	-0.04	0.072	0.085
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.57	24.20	1.156	-0.05	0.055	0.064
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	-0.12	0.207	0.264
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26340	1880	24.33	25.20	1.222	-0.08	0.251	0.307
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	26340	1880	24.33	25.20	1.222	-0.15	0.235	0.287
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	26340	1880	24.33	25.20	1.222	-0.07	0.229	0.280
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	26340	1880	24.33	25.20	1.222	-0.11	0.218	0.266
10	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	26340	1880	24.33	25.20	1.222	-0.08	0.335	0.409
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	-0.1	0.197	0.236
	LTE Band 25_Ant 4	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	22.41	23.70	1.346	0.14	0.141	0.190
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	-0.03	0.064	0.077
	LTE Band 25_Ant 4	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	22.41	23.70	1.346	0.05	0.001	0.001
	LTE Band 25_Ant 4	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	-0.13	0.134	0.161
	LTE Band 25_Ant 4	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	22.41	23.70	1.346	-0.04	0.089	0.120
	LTE Band 25_Ant 4	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	-0.15	0.080	0.096
	LTE Band 25_Ant 4	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	22.41	23.70	1.346	-0.16	0.054	0.073
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26140	1860	23.76	24.70	1.242	0.07	0.165	0.205
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	26340	1880	23.84	24.70	1.219	0.15	0.178	0.217
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	0.08	0.173	0.208
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	0.02	0.158	0.190
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	0.17	0.210	0.252
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	26590	1905	23.91	24.70	1.199	0.17	0.184	0.221



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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_Ant 4	15M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	0.07	0.210	0.285
	LTE Band 26_Ant 4	15M	QPSK	36	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	22.50	23.70	1.318	-0.01	0.187	0.246
	LTE Band 26_Ant 4	15M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	0.15	0.132	0.179
	LTE Band 26_Ant 4	15M	QPSK	36	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	22.50	23.70	1.318	0.12	0.115	0.151
11	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	-0.14	0.233	0.316
	LTE Band 26_Ant 4	15M	QPSK	36	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	22.50	23.70	1.318	-0.07	0.184	0.243
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	0.19	0.174	0.236
	LTE Band 26_Ant 4	15M	QPSK	36	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	26865	831.5	22.50	23.70	1.318	0.13	0.154	0.203
	LTE Band 5B_Ant 4	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	20600	844	23.31	24.70	1.377	0.15	0.188	0.259
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	-0.12	0.203	0.276
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	-0.19	0.199	0.270
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	0.08	0.195	0.265
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	26865	831.5	23.37	24.70	1.358	-0.03	0.184	0.250
	LTE Band 26_Ant 4	15M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	0.07	0.210	0.227
	LTE Band 26_Ant 4	15M	QPSK	36	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	22.50	23.70	1.318	-0.01	0.187	0.246
	LTE Band 26_Ant 4	15M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	0.15	0.132	0.142
	LTE Band 26_Ant 4	15M	QPSK	36	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	22.50	23.70	1.318	0.12	0.115	0.151
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	-0.14	0.233	0.251
	LTE Band 26_Ant 4	15M	QPSK	36	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	22.50	23.70	1.318	-0.07	0.184	0.243
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	0.19	0.174	0.188
	LTE Band 26_Ant 4	15M	QPSK	36	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	26865	831.5	22.50	23.70	1.318	0.13	0.154	0.203
	LTE Band 5B_Ant 4	10M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	20600	844	23.31	23.70	1.094	0.15	0.188	0.206
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	-0.12	0.203	0.219
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	-0.19	0.199	0.215
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	0.08	0.195	0.210
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	26865	831.5	23.37	23.70	1.079	-0.03	0.184	0.199



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	24.73	25.20	1.114	-0.11	0.375	0.418
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	22.80	24.20	1.380	0.14	0.242	0.334
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	24.73	25.20	1.114	-0.19	0.122	0.136
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	22.80	24.20	1.380	-0.13	0.076	0.105
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	24.73	25.20	1.114	-0.15	0.162	0.181
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	22.80	24.20	1.380	0.07	0.142	0.196
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	24.73	25.20	1.114	0.12	0.095	0.106
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	22.80	24.20	1.380	0.05	0.052	0.072
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	-0.03	0.339	0.379
12	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.71	25.20	1.119	-0.07	0.396	0.443
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	132572	1770	24.71	25.20	1.119	0.06	0.362	0.405
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	132572	1770	24.71	25.20	1.119	-0.09	0.374	0.419
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.71	25.20	1.119	0.19	0.378	0.423
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.71	25.20	1.119	0.13	0.369	0.413
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	0.04	0.098	0.109
	LTE Band 66_Ant 4	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	22.30	23.70	1.380	-0.03	0.058	0.080
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	-0.19	0.001	0.001
	LTE Band 66_Ant 4	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	22.30	23.70	1.380	-0.08	0.001	0.001
	LTE Band 66_Ant 4	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	0.08	0.064	0.071
	LTE Band 66_Ant 4	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	22.30	23.70	1.380	0.19	0.001	0.001
	LTE Band 66_Ant 4	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	0.07	0.001	0.001
	LTE Band 66_Ant 4	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	22.30	23.70	1.380	-0.17	0.001	0.001
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132072	1720	24.14	24.70	1.138	0.05	0.089	0.101
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132322	1745	24.15	24.70	1.135	0.12	0.081	0.092
	LTE Band 66B_Ant 4	15M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132597	1772.5	24.58	24.70	1.028	0.09	0.073	0.075
	LTE Band 66C_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.07	24.70	1.156	0.09	0.062	0.072
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	0.16	0.072	0.080
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	0.05	0.081	0.090
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	0.11	0.114	0.127
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	132572	1770	24.22	24.70	1.117	-0.02	0.143	0.160
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	0.12	0.263	0.362
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	22.43	23.70	1.340	-0.18	0.212	0.284
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.18	0.158	0.218
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	22.43	23.70	1.340	0.15	0.130	0.174
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	0.04	0.242	0.333
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	22.43	23.70	1.340	-0.03	0.195	0.261
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	0.12	0.136	0.187
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	22.43	23.70	1.340	0.16	0.109	0.146
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.07	0.252	0.347
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.15	0.237	0.326
13	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.19	0.266	0.366
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	0.17	0.232	0.320



FCC SAR TEST REPORT

Report No. : FA271554A

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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_Ant 6	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	23.39	24.60	1.321	62.9	1.006	0.01	0.118	0.157
	LTE Band 41_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	-0.15	0.100	0.143
	LTE Band 41_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	23.39	24.60	1.321	62.9	1.006	0.12	0.001	0.001
	LTE Band 41_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	-0.17	0.001	0.001
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	23.39	24.60	1.321	62.9	1.006	-0.15	0.269	0.358
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	0.07	0.231	0.331
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	23.39	24.60	1.321	62.9	1.006	-0.19	0.068	0.090
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	0.19	0.055	0.079
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	39750	2506	23.11	24.60	1.409	62.9	1.006	0	0.228	0.323
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	40185	2549.5	23.19	24.60	1.384	62.9	1.006	-0.12	0.236	0.328
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	40620	2593	23.14	24.60	1.400	62.9	1.006	0.01	0.255	0.359
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41490	2680	23.32	24.60	1.343	62.9	1.006	-0.06	0.273	0.369
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41490	2680	23.96	24.60	1.159	62.9	1.006	0.16	0.255	0.297
14	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41490	2680	25.22	26.60	1.374	42.9	1.009	-0.15	0.315	0.437
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	41490	2680	25.81	26.60	1.199	42.9	1.009	0.13	0.244	0.295
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	41490	2680	23.32	24.60	1.343	62.9	1.006	0.11	0.252	0.340
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	41490	2680	23.32	24.60	1.343	62.9	1.006	-0.02	0.239	0.323
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	41490	2680	23.32	24.60	1.343	62.9	1.006	-0.19	0.299	0.404
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	41490	2680	23.32	24.60	1.343	62.9	1.006	-0.01	0.281	0.380
	LTE Band 41_Ant 6	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	23.39	24.50	1.291	62.9	1.006	0.01	0.118	0.153
	LTE Band 41_Ant 6	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	-0.15	0.100	0.143
	LTE Band 41_Ant 6	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	23.39	24.50	1.291	62.9	1.006	0.12	0.001	0.001
	LTE Band 41_Ant 6	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	-0.17	0.001	0.001
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	23.39	24.50	1.291	62.9	1.006	-0.15	0.269	0.349
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	0.07	0.231	0.331
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	23.39	24.50	1.291	62.9	1.006	-0.19	0.068	0.088
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41055	2636.5	22.47	24.00	1.422	62.9	1.006	0.19	0.055	0.079
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	39750	2506	23.11	24.50	1.377	62.9	1.006	0	0.228	0.316
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	40185	2549.5	23.19	24.50	1.352	62.9	1.006	-0.12	0.236	0.321
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	40620	2593	23.14	24.50	1.368	62.9	1.006	0.01	0.255	0.351
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41490	2680	23.32	24.50	1.312	62.9	1.006	-0.06	0.273	0.360
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41490	2680	23.96	24.50	1.132	62.9	1.006	0.16	0.255	0.290
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41490	2680	25.22	26.10	1.225	42.9	1.009	-0.15	0.315	0.389
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	41490	2680	25.81	26.10	1.069	42.9	1.009	0.13	0.244	0.263
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	41490	2680	23.32	24.50	1.312	62.9	1.006	0.11	0.252	0.333
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	41490	2680	23.32	24.50	1.312	62.9	1.006	-0.02	0.239	0.315
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	41490	2680	23.32	24.50	1.312	62.9	1.006	-0.19	0.299	0.395
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	41490	2680	23.32	24.50	1.312	62.9	1.006	-0.01	0.281	0.371



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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 48_Ant 12	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	21.76	22.00	1.057	62.9	1.006	0.08	0.121	0.129
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	0.11	0.151	0.208
	LTE Band 48_Ant 12	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	21.76	22.00	1.057	62.9	1.006	0.19	0.088	0.094
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	-0.11	0.100	0.138
	LTE Band 48_Ant 12	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	21.76	22.00	1.057	62.9	1.006	0.1	0.034	0.036
	LTE Band 48_Ant 12	20M	QPSK	50	24	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	-0.07	0.042	0.058
	LTE Band 48_Ant 12	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	21.76	22.00	1.057	62.9	1.006	-0.17	0.020	0.021
	LTE Band 48_Ant 12	20M	QPSK	50	24	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	0.19	0.023	0.032
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	55340	3560	19.58	21.00	1.387	62.9	1.006	-0.19	0.106	0.148
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	55830	3609	19.39	21.00	1.449	62.9	1.006	-0.12	0.113	0.165
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	56150	3641	19.42	21.00	1.439	62.9	1.006	-0.05	0.136	0.197
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	0.08	0.132	0.182
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	-0.11	0.109	0.150
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	0.07	0.104	0.143
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	56640	3690	19.64	21.00	1.368	62.9	1.006	-0.19	0.137	0.189
	LTE Band 48_Ant 11	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.97	22.00	1.268	62.9	1.006	0.19	0.065	0.083
	LTE Band 48_Ant 11	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	-0.02	0.052	0.063
	LTE Band 48_Ant 11	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.97	22.00	1.268	62.9	1.006	-0.16	0.020	0.026
	LTE Band 48_Ant 11	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	0.09	0.001	0.001
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.97	22.00	1.268	62.9	1.006	0.13	0.249	0.318
	LTE Band 48_Ant 11	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	-0.19	0.204	0.246
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.97	22.00	1.268	62.9	1.006	-0.14	0.036	0.046
	LTE Band 48_Ant 11	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	0.17	0.034	0.041
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55340	3560	20.92	22.00	1.282	62.9	1.006	-0.19	0.251	0.324
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	56150	3641	20.96	22.00	1.271	62.9	1.006	-0.06	0.257	0.328
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.01	0.247	0.331
	LTE Band 48C_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	55830	3609	20.54	22.00	1.400	62.9	1.006	0.14	0.225	0.317
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.18	0.215	0.288
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.1	0.231	0.309
15	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	56640	3690	20.76	22.00	1.330	62.9	1.006	0.11	0.304	0.407
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.13	0.295	0.395
	LTE Band 48_Ant 11	20M	QPSK	1	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.97	21.00	1.007	62.9	1.006	0.19	0.065	0.066
	LTE Band 48_Ant 11	20M	QPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	-0.02	0.052	0.063
	LTE Band 48_Ant 11	20M	QPSK	1	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.97	21.00	1.007	62.9	1.006	-0.16	0.020	0.020
	LTE Band 48_Ant 11	20M	QPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	0.09	0.001	0.001
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.97	21.00	1.007	62.9	1.006	0.13	0.249	0.252
	LTE Band 48_Ant 11	20M	QPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	-0.19	0.204	0.246
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.97	21.00	1.007	62.9	1.006	-0.14	0.036	0.036
	LTE Band 48_Ant 11	20M	QPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.22	21.00	1.197	62.9	1.006	0.17	0.034	0.041
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55340	3560	20.92	21.00	1.019	62.9	1.006	-0.19	0.251	0.257
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	56150	3641	20.96	21.00	1.009	62.9	1.006	-0.06	0.257	0.261
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	56640	3690	20.76	21.00	1.057	62.9	1.006	-0.01	0.247	0.263
	LTE Band 48C_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	55830	3609	20.54	21.00	1.112	62.9	1.006	0.14	0.225	0.252
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	56640	3690	20.76	21.00	1.057	62.9	1.006	-0.18	0.215	0.229
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	56640	3690	20.76	21.00	1.057	62.9	1.006	-0.1	0.231	0.246
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	56640	3690	20.76	21.00	1.057	62.9	1.006	0.11	0.304	0.323
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	56640	3690	20.76	21.00	1.057	62.9	1.006	-0.13	0.295	0.314



FCC SAR TEST REPORT

Report No. : FA271554A

<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n7_Ant 6	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	-0.03	0.122	0.147
	FR1 n7_Ant 6	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.44	23.40	1.247	-0.03	0.120	0.150
	FR1 n7_Ant 6	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	-0.11	0.074	0.089
	FR1 n7_Ant 6	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.44	23.40	1.247	-0.14	0.069	0.086
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	0	0.314	0.379
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.44	23.40	1.247	-0.02	0.288	0.359
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	0.04	0.104	0.126
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	512000	2560	22.44	23.40	1.247	0.05	0.100	0.125
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	502000	2510	22.47	23.40	1.239	-0.18	0.226	0.280
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	507000	2535	22.36	23.40	1.271	0.15	0.267	0.339
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	0.09	0.282	0.341
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	-0.11	0.265	0.320
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	0.12	0.296	0.358
16	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	512000	2560	22.58	23.40	1.208	-0.06	0.320	0.387
	FR1 n7_Ant 6	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	-0.03	0.122	0.128
	FR1 n7_Ant 6	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.44	22.80	1.086	-0.03	0.120	0.130
	FR1 n7_Ant 6	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	-0.11	0.074	0.078
	FR1 n7_Ant 6	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.44	22.80	1.086	-0.14	0.069	0.075
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	0	0.314	0.330
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.44	22.80	1.086	-0.02	0.288	0.313
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	0.04	0.104	0.109
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	512000	2560	22.44	22.80	1.086	0.05	0.100	0.109
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	502000	2510	22.47	22.80	1.079	-0.18	0.226	0.244
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	507000	2535	22.36	22.80	1.107	0.15	0.267	0.295
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	0.09	0.282	0.297
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	-0.11	0.265	0.279
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	0.12	0.296	0.311
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	512000	2560	22.58	22.80	1.052	-0.06	0.320	0.337
17	FR1 n12_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.03	0.204	0.246
	FR1 n12_Ant 0	15M	BPSK	36	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.04	0.212	0.242
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.02	0.106	0.128
	FR1 n12_Ant 0	15M	BPSK	36	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.08	0.120	0.137
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.01	0.175	0.211
	FR1 n12_Ant 0	15M	BPSK	36	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.12	0.188	0.214
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.19	0.094	0.114
	FR1 n12_Ant 0	15M	BPSK	36	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.11	0.100	0.114
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.19	0.175	0.211
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.02	0.162	0.196
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	0.17	0.189	0.228
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	0.13	0.182	0.220
18	FR1 n13_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	-0.01	0.218	0.287
	FR1 n13_Ant 0	10M	BPSK	25	27	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.18	24.00	1.208	-0.05	0.229	0.277
	FR1 n13_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	-0.14	0.154	0.203
	FR1 n13_Ant 0	10M	BPSK	25	27	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.18	24.00	1.208	-0.12	0.164	0.198
	FR1 n13_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.08	0.118	0.156
	FR1 n13_Ant 0	10M	BPSK	25	27	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.18	24.00	1.208	-0.09	0.130	0.157
	FR1 n13_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.19	0.098	0.129
	FR1 n13_Ant 0	10M	BPSK	25	27	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.18	24.00	1.208	0.12	0.100	0.121
	FR1 n13_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.06	0.182	0.240
	FR1 n13_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.19	0.194	0.256
	FR1 n13_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.07	0.179	0.236
	FR1 n13_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	-0.05	0.173	0.228



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.36	24.70	1.081	0.12	0.206	0.223
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	0.04	0.212	0.234
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.36	24.70	1.081	0.09	0.147	0.159
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.18	0.152	0.168
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.36	24.70	1.081	0.06	0.124	0.134
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.14	0.129	0.142
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.36	24.70	1.081	-0.17	0.098	0.106
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.05	0.097	0.107
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	0.05	0.173	0.191
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.17	0.142	0.157
19	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.03	0.225	0.248
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.02	0.163	0.180
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.92	25.20	1.067	-0.13	0.239	0.255
	FR1 n25_Ant 2	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.73	25.20	1.114	-0.1	0.219	0.244
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.92	25.20	1.067	0.02	0.087	0.093
	FR1 n25_Ant 2	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.73	25.20	1.114	0.08	0.077	0.086
	FR1 n25_Ant 2	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.92	25.20	1.067	0.09	0.204	0.218
	FR1 n25_Ant 2	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.73	25.20	1.114	0.03	0.168	0.187
	FR1 n25_Ant 2	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.92	25.20	1.067	0.09	0.081	0.086
	FR1 n25_Ant 2	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.73	25.20	1.114	-0.17	0.075	0.084
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	372000	1860	24.86	25.20	1.081	0.07	0.248	0.268
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	0.06	0.166	0.184
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	372000	1860	24.86	25.20	1.081	0.11	0.206	0.223
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	372000	1860	24.86	25.20	1.081	-0.15	0.220	0.238
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	372000	1860	24.86	25.20	1.081	-0.06	0.291	0.315
20	FR1 n25_Ant 2	20M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	372000	1860	24.86	25.20	1.081	-0.1	0.391	0.423
	FR1 n25_Ant 4	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.90	25.20	1.072	0.13	0.134	0.144
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.81	25.20	1.094	0.09	0.145	0.159
	FR1 n25_Ant 4	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.90	25.20	1.072	-0.17	0.047	0.050
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.81	25.20	1.094	-0.05	0.051	0.056
	FR1 n25_Ant 4	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.90	25.20	1.072	-0.11	0.090	0.096
	FR1 n25_Ant 4	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.81	25.20	1.094	0.1	0.096	0.105
	FR1 n25_Ant 4	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.90	25.20	1.072	-0.1	0.059	0.063
	FR1 n25_Ant 4	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	381000	1905	24.81	25.20	1.094	0.12	0.064	0.070
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	372000	1860	24.73	25.20	1.114	-0.17	0.111	0.124
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.72	25.20	1.117	0.02	0.145	0.162
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	376500	1882.5	24.72	25.20	1.117	-0.06	0.117	0.131
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	376500	1882.5	24.72	25.20	1.117	-0.1	0.136	0.152
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.72	25.20	1.117	0.11	0.141	0.157
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	376500	1882.5	24.72	25.20	1.117	-0.05	0.159	0.178



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n26_Ant 4	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.80	25.20	1.096	0.08	0.314	0.344
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	-0.11	0.360	0.404
	FR1 n26_Ant 4	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.80	25.20	1.096	-0.16	0.188	0.206
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	0.1	0.209	0.235
	FR1 n26_Ant 4	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.80	25.20	1.096	0.07	0.288	0.316
	FR1 n26_Ant 4	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	-0.18	0.298	0.334
	FR1 n26_Ant 4	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.80	25.20	1.096	0.05	0.230	0.252
	FR1 n26_Ant 4	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	0.13	0.261	0.293
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	0.12	0.327	0.367
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	0.09	0.349	0.392
21	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	0.16	0.372	0.417
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	166300	831.5	24.70	25.20	1.122	-0.14	0.324	0.364
	FR1 n26_Ant 4	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.80	24.90	1.023	0.08	0.314	0.321
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	-0.11	0.360	0.377
	FR1 n26_Ant 4	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.80	24.90	1.023	-0.16	0.188	0.192
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	0.1	0.209	0.219
	FR1 n26_Ant 4	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.80	24.90	1.023	0.07	0.288	0.295
	FR1 n26_Ant 4	20M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	-0.18	0.298	0.312
	FR1 n26_Ant 4	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.80	24.90	1.023	0.05	0.230	0.235
	FR1 n26_Ant 4	20M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	0.13	0.261	0.273
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	0.12	0.327	0.342
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	0.09	0.349	0.365
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	0.16	0.372	0.390
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	166300	831.5	24.70	24.90	1.047	-0.14	0.324	0.339



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.05	0.567	0.603
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	0.11	0.654	0.719
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	-0.11	0.183	0.195
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	0.04	0.224	0.246
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.03	0.226	0.240
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	0.12	0.254	0.279
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.07	0.097	0.103
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	-0.05	0.123	0.135
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	0.16	0.583	0.641
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	-0.1	0.631	0.693
22	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	-0.09	0.711	0.781
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	0.15	0.599	0.658
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.04	0.031	0.034
	FR1 n66_Ant 4	40M	BPSK	108	54	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.53	25.20	1.167	0.01	0.028	0.033
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0	0.001	0.001
	FR1 n66_Ant 4	40M	BPSK	108	54	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.53	25.20	1.167	-0.15	0.001	0.001
	FR1 n66_Ant 4	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.13	0.001	0.001
	FR1 n66_Ant 4	40M	BPSK	108	54	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.53	25.20	1.167	0.19	0.001	0.001
	FR1 n66_Ant 4	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.01	0.001	0.001
	FR1 n66_Ant 4	40M	BPSK	108	54	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.53	25.20	1.167	-0.04	0.001	0.001
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.07	0.022	0.024
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.09	0.028	0.031
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.16	0.026	0.029
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.02	0.029	0.032
23	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.03	0.324	0.399
	FR1 n71_Ant 0	20M	BPSK	50	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.60	24.20	1.148	-0.19	0.315	0.362
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.17	0.173	0.213
	FR1 n71_Ant 0	20M	BPSK	50	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.60	24.20	1.148	0.11	0.182	0.209
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.15	0.248	0.305
	FR1 n71_Ant 0	20M	BPSK	50	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.60	24.20	1.148	0.06	0.242	0.278
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.09	0.140	0.172
	FR1 n71_Ant 0	20M	BPSK	50	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.60	24.20	1.148	-0.18	0.136	0.156
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.08	0.307	0.378
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.15	0.288	0.354
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.16	0.306	0.376
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.1	0.263	0.324



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	0.18	0.106	0.148
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.16	23.80	1.459	-0.06	0.084	0.123
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	0.05	0.055	0.077
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.16	23.80	1.459	0.02	0.042	0.061
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	-0.05	0.241	0.337
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.16	23.80	1.459	0.04	0.205	0.299
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	0.11	0.069	0.097
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.16	23.80	1.459	-0.18	0.059	0.086
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	0.1	0.216	0.302
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	0.03	0.200	0.280
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	-0.09	0.148	0.207
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 2	518598	2592.99	22.34	23.80	1.400	-0.06	0.096	0.134
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	0.19	0.648	0.976
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	-0.18	0.069	0.104
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	0.02	0.190	0.286
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	0.08	0.123	0.185
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	0.15	0.586	0.883
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	-0.09	0.521	0.785
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	0.15	0.700	1.055
24	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	518598	2592.99	21.92	23.70	1.507	-0.09	0.796	1.199
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	0.19	0.648	0.812
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	-0.18	0.069	0.086
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	0.02	0.190	0.238
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	0.08	0.123	0.154
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	0.15	0.586	0.734
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	-0.09	0.521	0.653
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	0.15	0.700	0.877
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	518598	2592.99	21.92	22.90	1.253	-0.09	0.796	0.998



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	-0.19	0.581	0.910
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	0.18	0.460	0.721
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	-0.02	0.365	0.572
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	0.06	0.252	0.395
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	-0.03	0.506	0.793
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	-0.19	0.529	0.829
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	-0.15	0.516	0.808
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	518598	2592.99	19.55	21.50	1.567	0.15	0.763	1.195
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	-0.19	0.581	0.630
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	0.18	0.460	0.499
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	-0.02	0.365	0.396
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	0.06	0.252	0.273
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	-0.03	0.506	0.548
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	-0.19	0.529	0.573
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	-0.15	0.516	0.559
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	518598	2592.99	19.55	19.90	1.084	0.15	0.763	0.827
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	-0.17	0.144	0.210
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	0.03	0.038	0.055
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	0.17	0.273	0.398
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	0.18	0.027	0.039
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	-0.14	0.218	0.318
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	-0.07	0.252	0.368
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	0.04	0.302	0.441
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	518598	2592.99	20.46	22.10	1.459	0.04	0.393	0.573
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	-0.17	0.144	0.145
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	0.03	0.038	0.038
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	0.17	0.273	0.276
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	0.18	0.027	0.027
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	-0.14	0.218	0.220
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	-0.07	0.252	0.254
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	0.04	0.302	0.305
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	518598	2592.99	20.46	20.50	1.009	0.04	0.393	0.397



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n48_Ant 12	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.24	22.00	1.191	-0.16	0.098	0.117
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.07	22.00	1.239	-0.01	0.100	0.124
	FR1 n48_Ant 12	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.24	22.00	1.191	-0.03	0.025	0.030
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.07	22.00	1.239	-0.06	0.022	0.027
	FR1 n48_Ant 12	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.24	22.00	1.191	-0.11	0.026	0.031
	FR1 n48_Ant 12	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.07	22.00	1.239	0.03	0.022	0.027
	FR1 n48_Ant 12	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.24	22.00	1.191	-0.1	0.001	0.001
	FR1 n48_Ant 12	40M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	641666	3624.99	21.07	22.00	1.239	0.11	0.001	0.001
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	638000	3570	21.05	22.00	1.245	-0.16	0.091	0.113
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	645332	3679.98	21.05	22.00	1.245	0.13	0.117	0.146
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	645332	3679.98	21.05	22.00	1.245	-0.07	0.094	0.117
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	645332	3679.98	21.05	22.00	1.245	-0.15	0.102	0.127
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	645332	3679.98	21.05	22.00	1.245	-0.14	0.092	0.114
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	645332	3679.98	21.05	22.00	1.245	-0.03	0.095	0.118
	FR1 n48_Ant 11	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.57	19.00	1.390	0.19	0.058	0.081
	FR1 n48_Ant 11	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	-0.17	0.059	0.086
	FR1 n48_Ant 11	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.57	19.00	1.390	0.08	0.019	0.026
	FR1 n48_Ant 11	40M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	0.04	0.022	0.032
	FR1 n48_Ant 11	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.57	19.00	1.390	0.04	0.237	0.329
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	-0.11	0.235	0.341
	FR1 n48_Ant 11	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.57	19.00	1.390	0.03	0.033	0.046
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	-0.07	0.036	0.052
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	638000	3570	17.35	19.00	1.462	0.09	0.224	0.328
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	645332	3679.98	17.37	19.00	1.455	0.05	0.221	0.322
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	0.19	0.212	0.308
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	-0.07	0.201	0.292
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	0.04	0.273	0.396
25	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	641666	3624.99	17.38	19.00	1.452	0.06	0.278	0.404
	FR1 n48_Ant 11	40M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.57	18.20	1.156	0.19	0.058	0.067
	FR1 n48_Ant 11	40M	BPSK	50	28	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	-0.17	0.059	0.071
	FR1 n48_Ant 11	40M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.57	18.20	1.156	0.08	0.019	0.022
	FR1 n48_Ant 11	40M	BPSK	50	28	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	0.04	0.022	0.027
	FR1 n48_Ant 11	40M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.57	18.20	1.156	0.04	0.237	0.274
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	-0.11	0.235	0.284
	FR1 n48_Ant 11	40M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.57	18.20	1.156	0.03	0.033	0.038
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	-0.07	0.036	0.043
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	638000	3570	17.35	18.20	1.216	0.09	0.224	0.272
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	645332	3679.98	17.37	18.20	1.211	0.05	0.221	0.268
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	0.19	0.212	0.256
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	-0.07	0.201	0.243
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	0.04	0.273	0.330
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	641666	3624.99	17.38	18.20	1.208	0.06	0.278	0.336



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.40	26.50	1.288	0.06	0.422	0.544
26	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	-0.11	0.432	0.564
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.40	26.50	1.288	-0.16	0.096	0.124
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	0.12	0.100	0.130
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.40	26.50	1.288	0.15	0.108	0.139
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	0.14	0.124	0.162
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.40	26.50	1.288	0.06	0.035	0.045
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	-0.12	0.034	0.044
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	0.12	0.418	0.546
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	-0.05	0.389	0.508
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	0.09	0.361	0.472
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 0	656000	3840	25.34	26.50	1.306	0.1	0.350	0.458
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.40	26.30	1.230	0.06	0.422	0.519
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	-0.11	0.432	0.539
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.40	26.30	1.230	-0.16	0.096	0.119
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	0.12	0.100	0.124
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.40	26.30	1.230	0.15	0.108	0.132
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	0.14	0.124	0.155
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.40	26.30	1.230	0.06	0.035	0.043
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	-0.12	0.034	0.042
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	0.12	0.418	0.521
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	-0.05	0.389	0.485
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	0.09	0.361	0.450
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 0	656000	3840	25.34	26.30	1.247	0.1	0.350	0.437
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.1	0.382	0.444
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.78	26.00	1.052	-0.12	0.353	0.372
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.06	0.091	0.106
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.78	26.00	1.052	0.19	0.072	0.076
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	-0.11	0.125	0.146
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.78	26.00	1.052	0.01	0.108	0.113
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.15	0.055	0.064
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.78	26.00	1.052	0.14	0.054	0.057
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.03	0.325	0.377
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.16	0.296	0.344
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.12	0.330	0.383
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 0	633332	3499.98	25.85	26.50	1.161	0.06	0.312	0.362
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.1	0.382	0.424
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.78	26.00	1.052	-0.12	0.353	0.372
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.06	0.091	0.101
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.78	26.00	1.052	0.19	0.072	0.076
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	-0.11	0.125	0.139
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.78	26.00	1.052	0.01	0.108	0.113
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.15	0.055	0.061
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.78	26.00	1.052	0.14	0.054	0.057
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.03	0.325	0.360
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.16	0.296	0.328
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.12	0.330	0.366
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 0	633332	3499.98	25.85	26.30	1.109	0.06	0.312	0.346



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	-0.05	0.072	0.085
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	17.96	18.70	1.186	0.18	0.057	0.068
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	-0.06	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	17.96	18.70	1.186	0.13	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	-0.12	0.277	0.325
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	17.96	18.70	1.186	-0.01	0.262	0.311
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	0.12	0.033	0.038
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	17.96	18.70	1.186	-0.06	0.030	0.035
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	0.07	0.258	0.302
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	-0.08	0.243	0.285
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	0.13	0.338	0.396
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	656000	3840	18.01	18.70	1.172	0.18	0.280	0.329
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	-0.05	0.072	0.074
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	17.96	18.10	1.033	0.18	0.057	0.059
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	-0.06	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	17.96	18.10	1.033	0.13	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	-0.12	0.277	0.283
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	17.96	18.10	1.033	-0.01	0.262	0.271
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	0.12	0.033	0.033
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	17.96	18.10	1.033	-0.06	0.030	0.031
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	0.07	0.258	0.263
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	-0.08	0.243	0.248
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	0.13	0.338	0.345
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	656000	3840	18.01	18.10	1.021	0.18	0.280	0.286
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.02	0.061	0.072
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.95	18.70	1.189	0.13	0.055	0.066
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.15	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.95	18.70	1.189	0.08	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.15	0.242	0.285
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.95	18.70	1.189	0.11	0.234	0.279
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	-0.11	0.026	0.031
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.95	18.70	1.189	0.04	0.024	0.028
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.17	0.206	0.243
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.11	0.229	0.270
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.04	0.244	0.288
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	633332	3499.98	17.99	18.70	1.178	0.03	0.213	0.251
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.02	0.061	0.063
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.95	18.10	1.035	0.13	0.055	0.057
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.15	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.95	18.10	1.035	0.08	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.15	0.242	0.248
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.95	18.10	1.035	0.11	0.234	0.243
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	-0.11	0.026	0.027
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	0	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.95	18.10	1.035	0.04	0.024	0.025
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.17	0.206	0.211
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.11	0.229	0.235
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.04	0.244	0.251
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	633332	3499.98	17.99	18.10	1.026	0.03	0.213	0.218



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n77_Ant 5	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	-0.12	0.220	0.324
	FR1 n77_Ant 5	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	0.14	0.257	0.378
	FR1 n77_Ant 5	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	0.06	0.257	0.378
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	0.19	0.265	0.390
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	0.17	0.243	0.357
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	-0.08	0.221	0.325
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	0.16	0.291	0.427
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	656000	3840	15.03	16.70	1.469	0.11	0.241	0.354
	FR1 n77_Ant 5	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	-0.12	0.220	0.275
	FR1 n77_Ant 5	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	0.14	0.257	0.321
	FR1 n77_Ant 5	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	0.06	0.257	0.321
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	0.19	0.265	0.332
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	0.17	0.243	0.304
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	-0.08	0.221	0.276
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	0.16	0.291	0.364
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	656000	3840	15.03	16.00	1.250	0.11	0.241	0.301
	FR1 n77_Ant 5	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	-0.12	0.187	0.220
	FR1 n77_Ant 5	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	0.01	0.204	0.240
	FR1 n77_Ant 5	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	0.19	0.258	0.303
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	-0.11	0.290	0.341
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	0.12	0.273	0.321
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	0.06	0.256	0.301
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	0.04	0.299	0.351
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	633332	3499.98	16.00	16.70	1.175	0.15	0.227	0.267
	FR1 n77_Ant 5	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	-0.12	0.187	0.187
	FR1 n77_Ant 5	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	0.01	0.204	0.204
	FR1 n77_Ant 5	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	0.19	0.258	0.258
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	-0.11	0.290	0.290
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	0.12	0.273	0.273
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	0.06	0.256	0.256
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	0.04	0.299	0.299
	FR1 n77_Ant 5	100M	CW	-	-	Left Tilted	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	633332	3499.98	16.00	16.00	1.000	0.15	0.227	0.227



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	-0.13	0.398	0.495
	FR1 n77_Ant 3	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	-0.12	0.039	0.049
	FR1 n77_Ant 3	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	0.11	0.178	0.222
	FR1 n77_Ant 3	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	0.09	0.060	0.074
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	0.19	0.356	0.443
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	-0.07	0.372	0.463
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	0.14	0.388	0.483
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	656000	3840	20.05	21.00	1.245	-0.08	0.350	0.436
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	-0.13	0.398	0.441
	FR1 n77_Ant 3	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	-0.12	0.039	0.044
	FR1 n77_Ant 3	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	0.11	0.178	0.198
	FR1 n77_Ant 3	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	0.09	0.060	0.066
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	0.19	0.356	0.395
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	-0.07	0.372	0.413
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	0.14	0.388	0.431
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	656000	3840	20.05	20.50	1.109	-0.08	0.350	0.389
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	-0.12	0.321	0.446
	FR1 n77_Ant 3	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	0.14	0.038	0.053
	FR1 n77_Ant 3	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	0.15	0.134	0.186
	FR1 n77_Ant 3	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	-0.09	0.044	0.061
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	0.03	0.289	0.402
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	-0.01	0.261	0.363
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	0.11	0.287	0.399
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN OFF	DSI 2	633332	3499.98	19.57	21.00	1.390	-0.07	0.254	0.353
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	-0.12	0.321	0.397
	FR1 n77_Ant 3	100M	CW	-	-	Right Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	0.14	0.038	0.047
	FR1 n77_Ant 3	100M	CW	-	-	Left Cheek	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	0.15	0.134	0.166
	FR1 n77_Ant 3	100M	CW	-	-	Left Tilted	0mm	Sample 1	Battery 1	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	-0.09	0.044	0.055
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 2	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	0.03	0.289	0.358
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 1	Battery 3	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	-0.01	0.261	0.323
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 2	Battery 1	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	0.11	0.287	0.356
	FR1 n77_Ant 3	100M	CW	-	-	Right Cheek	0mm	Sample 3	Battery 1	WLAN ON	DSI 2	633332	3499.98	19.57	20.50	1.239	-0.07	0.254	0.315

**<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	0.14	0.279	0.312
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.13	0.295	0.330
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.09	0.530	0.592
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	6	2437	19.90	20.50	1.148	95.9	1.043	-0.03	0.532	0.637
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.1	0.551	0.645
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.07	0.301	0.336
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.19	0.523	0.612
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.17	0.512	0.599
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.06	0.532	0.623
27	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.1	0.680	0.796
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	-0.01	0.168	0.201
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	-0.03	0.178	0.213
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	-0.09	0.320	0.383
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	6	2437	18.90	20.00	1.288	95.9	1.043	0.03	0.331	0.445
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	0.1	0.332	0.446
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	-0.12	0.182	0.218
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	0.19	0.315	0.423
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	0	0.307	0.412
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	-0.06	0.321	0.431
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	-0.03	0.374	0.503
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.09	0.264	0.288
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.08	0.106	0.116
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	-0.04	0.525	0.573
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	-0.07	0.564	0.645
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 8	non-DBS	11	2462	20.50	21.00	1.122	95.9	1.043	0.08	0.504	0.590
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.04	0.202	0.221
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 2	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	0.19	0.532	0.608
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 3	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	0.06	0.521	0.596
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 2	Battery 1	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	-0.11	0.383	0.438
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	-0.1	0.521	0.596
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.01	0.156	0.163
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.18	0.062	0.065
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.16	0.311	0.324
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.01	0.332	0.398
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 8	DBS	11	2462	19.40	20.00	1.148	95.9	1.043	-0.17	0.298	0.357
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	0.03	0.120	0.125
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 2	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	-0.09	0.308	0.369
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 1	Battery 3	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.14	0.275	0.329
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 2	Battery 1	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.04	0.227	0.272
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.08	0.308	0.369



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.06	0.411	0.472
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.16	0.369	0.424
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.11	0.727	0.835
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	62	5310	15.40	16.50	1.288	100.00	1.000	0.02	0.616	0.794
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	64	5320	16.00	16.50	1.122	100.00	1.000	0.05	0.712	0.799
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.09	0.555	0.637
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.03	0.672	0.772
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.13	0.655	0.752
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.07	0.695	0.798
28	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.09	0.930	1.068
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	62	5310	15.40	16.50	1.288	100.00	1.000	0.06	0.759	0.978
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	64	5320	16.00	16.50	1.122	100.00	1.000	0.05	0.845	0.948
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	-0.06	0.247	0.297
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	0.08	0.221	0.266
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	0.03	0.389	0.468
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.13	0.436	0.536
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	-0.07	0.333	0.400
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.09	0.407	0.501
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.13	0.384	0.472
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.04	0.419	0.515
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.04	0.538	0.662
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.06	0.371	0.478
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.14	0.455	0.586
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.16	0.713	0.919
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	102	5510	13.60	14.50	1.230	100.00	1.000	0.13	0.571	0.702
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	126	5630	15.10	16.50	1.380	100.00	1.000	-0.16	0.609	0.841
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	134	5670	13.80	14.50	1.175	100.00	1.000	-0.01	0.513	0.603
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	142	5710	15.40	16.50	1.288	100.00	1.000	-0.1	0.491	0.633
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	0.02	0.618	0.796
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.17	0.689	0.888
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.15	0.662	0.853
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.17	0.616	0.794
29	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.19	0.928	1.195
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	102	5510	13.60	14.50	1.230	100.00	1.000	0.04	0.723	0.889
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	126	5630	15.10	16.50	1.380	100.00	1.000	0.15	0.811	1.119
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	134	5670	13.80	14.50	1.175	100.00	1.000	-0.03	0.845	0.993
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	142	5710	15.40	16.50	1.288	100.00	1.000	0.02	0.831	1.071
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.01	0.232	0.292
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.07	0.284	0.358
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.06	0.446	0.561
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.05	0.399	0.502
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.14	0.412	0.519
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.1	0.409	0.515
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.19	0.414	0.521
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.05	0.541	0.681



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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	802.11a 6Mbps	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.03	0.401	0.460
	WLAN5GHz	802.11a 6Mbps	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	0.06	0.485	0.557
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.02	0.579	0.665
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	149	5745	16.60	17.50	1.230	100.00	1.000	0.01	0.512	0.630
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	165	5825	16.60	17.50	1.230	100.00	1.000	0.14	0.524	0.645
	WLAN5GHz	802.11a 6Mbps	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	0.04	0.548	0.629
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.16	0.542	0.622
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	0.09	0.519	0.596
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.17	0.515	0.591
30	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.17	0.981	1.126
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	149	5745	16.60	17.50	1.230	100.00	1.000	0.06	0.801	0.985
	WLAN5GHz	802.11a 6Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	165	5825	16.60	17.50	1.230	100.00	1.000	0.15	0.822	1.011
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	0.04	0.212	0.261
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.12	0.256	0.315
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.17	0.306	0.376
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	159	5795	14.60	15.50	1.230	100.00	1.000	-0.14	0.276	0.340
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.17	0.290	0.357
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	0.1	0.283	0.348
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.18	0.267	0.328
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.19	0.272	0.335
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.06	0.518	0.637

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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)	Measured APD (W/m^2)
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	111	6505	14.20	14.50	1.072	98.2	1.018	0.07	0.081	0.088	0.408
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	111	6505	14.20	14.50	1.072	98.2	1.018	0.13	0.101	0.110	0.480
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	111	6505	14.20	14.50	1.072	98.2	1.018	-0.03	0.273	0.298	1.512
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	15	6025	12.40	13.50	1.288	98.2	1.018	0.14	0.093	0.122	0.480
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	47	6185	12.00	13.50	1.413	98.2	1.018	0.16	0.146	0.210	0.840
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	175	6825	13.80	14.50	1.175	98.2	1.018	0.06	0.257	0.307	1.416
31	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	207	6985	13.90	14.00	1.023	98.2	1.018	-0.1	0.318	0.331	1.800
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	111	6505	14.20	14.50	1.072	98.2	1.018	-0.01	0.236	0.257	1.296
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS	207	6985	13.90	14.00	1.023	98.2	1.018	-0.01	0.298	0.310	1.483
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS	207	6985	13.90	14.00	1.023	98.2	1.018	-0.14	0.276	0.288	1.462
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS	207	6985	13.90	14.00	1.023	98.2	1.018	-0.04	0.312	0.325	1.752
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	207	6985	13.90	14.00	1.023	98.2	1.018	0.19	0.274	0.285	1.464

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Right Tilted	0mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	39	2441	4.25	4.50	1.059	76.83	1.084	0	< 0.001	< 0.001
32	Bluetooth	1Mbps	Left Cheek	0mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	78	2480	3.51	4.50	1.256	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Tilted	0mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Sample 1	Battery 2	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Sample 1	Battery 3	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Sample 2	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Left Cheek	0mm	Sample 3	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001



15.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 4	GPRS (4 Tx slots)	Front	10mm	Sample 1	Battery 1	DSI 0	128	824.2	29.71	30.50	1.199	-0.12	0.201	0.241
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 1	Battery 1	DSI 0	128	824.2	29.71	30.50	1.199	0.01	0.307	0.368
	GSM850_Ant 4	GPRS (4 Tx slots)	Left Side	10mm	Sample 1	Battery 1	DSI 0	128	824.2	29.71	30.50	1.199	-0.1	0.151	0.181
	GSM850_Ant 4	GPRS (4 Tx slots)	Right Side	10mm	Sample 1	Battery 1	DSI 0	128	824.2	29.71	30.50	1.199	-0.02	0.111	0.133
	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	128	824.2	29.71	30.50	1.199	-0.02	0.364	0.437
	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	189	836.4	29.70	30.50	1.202	-0.14	0.438	0.527
33	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	251	848.8	29.47	30.50	1.268	0.02	0.458	0.581
	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	251	848.8	29.47	30.50	1.268	0.1	0.421	0.534
	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	251	848.8	29.47	30.50	1.268	0.03	0.437	0.554
	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	251	848.8	29.47	30.50	1.268	-0.13	0.456	0.578
	GSM850_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	251	848.8	29.47	30.50	1.268	0.1	0.406	0.515
	GSM1900_Ant 4	GPRS (4 Tx slots)	Front	10mm	Sample 1	Battery 1	DSI 3	810	1909.8	25.89	27.10	1.321	-0.18	0.072	0.095
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 1	Battery 1	DSI 3	810	1909.8	25.89	27.10	1.321	0.15	0.482	0.637
	GSM1900_Ant 4	GPRS (4 Tx slots)	Left Side	10mm	Sample 1	Battery 1	DSI 3	810	1909.8	25.89	27.10	1.321	0.1	0.082	0.108
	GSM1900_Ant 4	GPRS (4 Tx slots)	Right Side	10mm	Sample 1	Battery 1	DSI 3	810	1909.8	25.89	27.10	1.321	0.07	0.076	0.100
	GSM1900_Ant 4	GPRS (4 Tx slots)	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	810	1909.8	25.89	27.10	1.321	-0.15	0.417	0.551
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 1	Battery 1	DSI 3	512	1850.2	25.69	27.10	1.384	0.07	0.499	0.690
34	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 1	Battery 1	DSI 3	661	1880	25.77	27.10	1.358	-0.14	0.542	0.736
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 1	Battery 2	DSI 3	661	1880	25.77	27.10	1.358	0.05	0.532	0.723
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 1	Battery 3	DSI 3	661	1880	25.77	27.10	1.358	-0.11	0.511	0.694
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 2	Battery 1	DSI 3	661	1880	25.77	27.10	1.358	0.18	0.510	0.693
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	10mm	Sample 3	Battery 1	DSI 3	661	1880	25.77	27.10	1.358	0.06	0.371	0.504

**<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 2	RMC 12.2Kbps	Front	10mm	Sample 1	Battery 1	DSI 0	9400	1880	24.12	25.20	1.282	0.11	0.269	0.345
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 0	9400	1880	24.12	25.20	1.282	0.17	0.361	0.463
	WCDMA II_Ant 2	RMC 12.2Kbps	Left Side	10mm	Sample 1	Battery 1	DSI 0	9400	1880	24.12	25.20	1.282	-0.03	0.177	0.227
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 1	DSI 0	9400	1880	24.12	25.20	1.282	0.17	0.533	0.683
	WCDMA II_Ant 2	RMC 12.2Kbps	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	9400	1880	24.12	25.20	1.282	-0.04	0.137	0.176
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 1	DSI 0	9262	1852.4	24.02	25.20	1.312	-0.18	0.497	0.652
35	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 1	DSI 0	9538	1907.6	24.02	25.20	1.312	-0.02	0.614	0.806
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 2	DSI 0	9538	1907.6	24.02	25.20	1.312	-0.11	0.582	0.764
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 3	DSI 0	9538	1907.6	24.02	25.20	1.312	0.07	0.566	0.743
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 2	Battery 1	DSI 0	9538	1907.6	24.02	25.20	1.312	-0.03	0.477	0.626
	WCDMA II_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 3	Battery 1	DSI 0	9538	1907.6	24.02	25.20	1.312	-0.1	0.593	0.778
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	10mm	Sample 1	Battery 1	DSI 3	1413	1732.6	23.76	24.50	1.186	-0.03	0.170	0.202
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 3	1413	1732.6	23.76	24.50	1.186	0.1	0.519	0.615
	WCDMA IV_Ant 2	RMC 12.2Kbps	Left Side	10mm	Sample 1	Battery 1	DSI 3	1413	1732.6	23.76	24.50	1.186	-0.13	0.127	0.151
	WCDMA IV_Ant 2	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 1	DSI 3	1413	1732.6	23.76	24.50	1.186	0.12	0.296	0.351
	WCDMA IV_Ant 2	RMC 12.2Kbps	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	1413	1732.6	23.76	24.50	1.186	0.05	0.069	0.082
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 3	1312	1712.4	23.66	24.50	1.213	0.03	0.496	0.602
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 3	1513	1752.6	23.44	24.50	1.276	-0.01	0.494	0.631
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 2	DSI 3	1513	1752.6	23.44	24.50	1.276	0.06	0.472	0.602
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 3	DSI 3	1513	1752.6	23.44	24.50	1.276	0.1	0.455	0.581
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 2	Battery 1	DSI 3	1513	1752.6	23.44	24.50	1.276	0.15	0.445	0.568
36	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	10mm	Sample 3	Battery 1	DSI 3	1513	1752.6	23.44	24.50	1.276	-0.07	0.576	0.735
	WCDMA V_Ant 4	RMC 12.2Kbps	Front	10mm	Sample 1	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	0.09	0.287	0.322
37	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	-0.04	0.592	0.664
	WCDMA V_Ant 4	RMC 12.2Kbps	Left Side	10mm	Sample 1	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	-0.15	0.175	0.196
	WCDMA V_Ant 4	RMC 12.2Kbps	Right Side	10mm	Sample 1	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	-0.19	0.167	0.187
	WCDMA V_Ant 4	RMC 12.2Kbps	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	-0.16	0.455	0.511
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 0	4132	826.4	24.60	25.20	1.148	0.02	0.518	0.595
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 1	DSI 0	4233	846.6	24.64	25.20	1.138	0.04	0.332	0.378
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 2	DSI 0	4182	836.4	24.70	25.20	1.122	0.08	0.554	0.622
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 1	Battery 3	DSI 0	4182	836.4	24.70	25.20	1.122	0.15	0.562	0.631
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 2	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	-0.05	0.458	0.514
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	10mm	Sample 3	Battery 1	DSI 0	4182	836.4	24.70	25.20	1.122	-0.03	0.496	0.557



<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 6	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	-0.03	0.201	0.213
	LTE Band 7_Ant 6	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.19	23.00	1.205	-0.14	0.124	0.149
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	0.01	0.625	0.662
	LTE Band 7_Ant 6	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.19	23.00	1.205	0.02	0.451	0.543
38	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	0.01	0.863	0.914
	LTE Band 7_Ant 6	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.19	23.00	1.205	-0.09	0.568	0.684
	LTE Band 7_Ant 6	20M	QPSK	100	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.07	23.00	1.239	0.01	0.635	0.787
	LTE Band 7_Ant 6	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	0.09	0.084	0.089
	LTE Band 7_Ant 6	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.19	23.00	1.205	0.15	0.055	0.066
	LTE Band 7_Ant 6	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	0.17	0.355	0.376
	LTE Band 7_Ant 6	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.19	23.00	1.205	0.04	0.225	0.271
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	20850	2510	22.86	23.30	1.107	0.18	0.777	0.860
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	21100	2535	22.64	23.30	1.164	-0.09	0.733	0.853
	LTE Band 7C_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	21350	2560	22.81	23.30	1.119	0.15	0.712	0.797
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 2	DSI 3	21350	2560	23.05	23.30	1.059	0.08	0.794	0.841
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 3	DSI 3	21350	2560	23.05	23.30	1.059	0.11	0.775	0.821
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 2	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	0.15	0.691	0.732
	LTE Band 7_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 3	Battery 1	DSI 3	21350	2560	23.05	23.30	1.059	-0.12	0.790	0.837
	LTE Band 12_Ant 0	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	-0.03	0.230	0.294
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	22.71	23.70	1.256	0.19	0.187	0.235
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	0.11	0.267	0.342
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	22.71	23.70	1.256	0.06	0.212	0.266
	LTE Band 12_Ant 0	10M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	0.16	0.133	0.170
	LTE Band 12_Ant 0	10M	QPSK	25	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	22.71	23.70	1.256	-0.18	0.109	0.137
	LTE Band 12_Ant 0	10M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	0	0.238	0.304
	LTE Band 12_Ant 0	10M	QPSK	25	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	22.71	23.70	1.256	0	0.181	0.227
39	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	-0.17	0.325	0.416
	LTE Band 12_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	23095	707.5	22.71	23.70	1.256	0.16	0.263	0.330
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	23095	707.5	23.63	24.70	1.279	0.06	0.296	0.379
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	23095	707.5	23.63	24.70	1.279	-0.18	0.275	0.352
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	-0.12	0.318	0.407
	LTE Band 12_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	23095	707.5	23.63	24.70	1.279	0.15	0.287	0.367



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 0	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	0.16	0.213	0.283
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	10mm	Sample 1	Battery 1	DSI 0	23230	782	22.39	23.50	1.291	0.14	0.178	0.230
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	-0.12	0.320	0.426
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	10mm	Sample 1	Battery 1	DSI 0	23230	782	22.39	23.50	1.291	-0.07	0.252	0.325
	LTE Band 13_Ant 0	10M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	-0.06	0.072	0.096
	LTE Band 13_Ant 0	10M	QPSK	25	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	23230	782	22.39	23.50	1.291	-0.02	0.064	0.083
	LTE Band 13_Ant 0	10M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	-0.16	0.252	0.335
	LTE Band 13_Ant 0	10M	QPSK	25	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	23230	782	22.39	23.50	1.291	0.16	0.210	0.271
40	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	-0.17	0.331	0.440
	LTE Band 13_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	23230	782	22.39	23.50	1.291	-0.16	0.251	0.324
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	23230	782	23.26	24.50	1.330	0.07	0.302	0.402
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	23230	782	23.26	24.50	1.330	-0.01	0.288	0.383
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	0.16	0.286	0.381
	LTE Band 13_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	23230	782	23.26	24.50	1.330	-0.19	0.257	0.342
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	0.05	0.247	0.334
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	10mm	Sample 1	Battery 1	DSI 0	23330	793	22.44	23.70	1.337	0.14	0.198	0.265
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	-0.16	0.285	0.385
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	10mm	Sample 1	Battery 1	DSI 0	23330	793	22.44	23.70	1.337	0.15	0.225	0.301
	LTE Band 14_Ant 0	10M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	0.15	0.102	0.138
	LTE Band 14_Ant 0	10M	QPSK	25	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	23330	793	22.44	23.70	1.337	-0.1	0.084	0.112
	LTE Band 14_Ant 0	10M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	-0.13	0.269	0.364
	LTE Band 14_Ant 0	10M	QPSK	25	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	23330	793	22.44	23.70	1.337	0.15	0.212	0.283
41	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	-0.15	0.294	0.398
	LTE Band 14_Ant 0	10M	QPSK	25	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	23330	793	22.44	23.70	1.337	0.1	0.221	0.295
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	23330	793	23.39	24.70	1.352	0.08	0.279	0.377
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	23330	793	23.39	24.70	1.352	0.12	0.260	0.352
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	-0.04	0.232	0.314
	LTE Band 14_Ant 0	10M	QPSK	1	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	23330	793	23.39	24.70	1.352	-0.02	0.251	0.339



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 2	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	-0.19	0.278	0.330
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 0	26590	1905	23.57	24.20	1.156	-0.11	0.140	0.162
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	0.16	0.430	0.510
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 0	26590	1905	23.57	24.20	1.156	-0.01	0.228	0.264
	LTE Band 25_Ant 2	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	-0.03	0.159	0.189
	LTE Band 25_Ant 2	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	26590	1905	23.57	24.20	1.156	-0.07	0.088	0.102
42	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	-0.11	0.572	0.678
	LTE Band 25_Ant 2	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	26590	1905	23.57	24.20	1.156	0.01	0.314	0.363
	LTE Band 25_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	0.08	0.138	0.164
	LTE Band 25_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	26590	1905	23.57	24.20	1.156	0.06	0.070	0.081
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	26140	1860	24.15	25.20	1.274	-0.04	0.479	0.610
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	26340	1880	24.33	25.20	1.222	0.11	0.416	0.508
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 2	DSI 0	26590	1905	24.46	25.20	1.186	0.15	0.552	0.655
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 3	DSI 0	26590	1905	24.46	25.20	1.186	0.07	0.531	0.630
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 2	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	0.09	0.389	0.461
	LTE Band 25_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 3	Battery 1	DSI 0	26590	1905	24.46	25.20	1.186	0.11	0.541	0.642
	LTE Band 25_Ant 4	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	-0.19	0.090	0.103
	LTE Band 25_Ant 4	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 3	26590	1905	20.85	21.30	1.109	-0.13	0.057	0.063
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	-0.11	0.439	0.501
	LTE Band 25_Ant 4	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 3	26590	1905	20.85	21.30	1.109	-0.08	0.307	0.341
	LTE Band 25_Ant 4	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	0.13	0.110	0.125
	LTE Band 25_Ant 4	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	26590	1905	20.85	21.30	1.109	-0.09	0.072	0.080
	LTE Band 25_Ant 4	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	-0.02	0.067	0.076
	LTE Band 25_Ant 4	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	26590	1905	20.85	21.30	1.109	-0.13	0.047	0.052
	LTE Band 25_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	0.16	0.417	0.475
	LTE Band 25_Ant 4	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	26590	1905	20.85	21.30	1.109	-0.19	0.271	0.301
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	26140	1860	21.39	22.30	1.233	0.15	0.390	0.481
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	26340	1880	21.55	22.30	1.189	0.12	0.419	0.498
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 2	DSI 3	26590	1905	21.73	22.30	1.140	-0.11	0.410	0.468
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	DSI 3	26590	1905	21.73	22.30	1.140	-0.09	0.396	0.452
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 2	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	-0.11	0.554	0.632
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 3	Battery 1	DSI 3	26590	1905	21.73	22.30	1.140	0.18	0.412	0.470
	LTE Band 26_Ant 4	15M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	-0.04	0.197	0.274
	LTE Band 26_Ant 4	15M	QPSK	36	0	Front	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	22.90	24.20	1.349	0.01	0.164	0.221
	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	-0.09	0.327	0.455
	LTE Band 26_Ant 4	15M	QPSK	36	0	Back	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	22.90	24.20	1.349	0.15	0.290	0.391
	LTE Band 26_Ant 4	15M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	0.09	0.138	0.192
	LTE Band 26_Ant 4	15M	QPSK	36	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	22.90	24.20	1.349	0.08	0.118	0.159
	LTE Band 26_Ant 4	15M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	-0.18	0.119	0.165
	LTE Band 26_Ant 4	15M	QPSK	36	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	22.90	24.20	1.349	-0.13	0.099	0.134
43	LTE Band 26_Ant 4	15M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	-0.16	0.356	0.495
	LTE Band 26_Ant 4	15M	QPSK	36	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	26865	831.5	22.90	24.20	1.349	-0.17	0.324	0.437
	LTE Band 5B_Ant 4	10M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	20475	831.5	24.98	25.20	1.052	0.19	0.310	0.326
	LTE Band 26_Ant 4	15M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	26865	831.5	23.77	25.20	1.390	0.1	0.311	0.432
	LTE Band 26_Ant 4	15M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	26865	831.5	23.77	25.20	1.390	-0.05	0.296	0.411
	LTE Band 26_Ant 4	15M	QPSK	1	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	0.07	0.331	0.460
	LTE Band 26_Ant 4	15M	QPSK	1	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	26865	831.5	23.77	25.20	1.390	0.11	0.315	0.438



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 2	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.78	23.60	1.208	-0.1	0.139	0.168
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.76	23.60	1.213	-0.03	0.088	0.107
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.78	23.60	1.208	-0.04	0.417	0.504
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.76	23.60	1.213	-0.19	0.206	0.250
	LTE Band 66_Ant 2	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.78	23.60	1.208	-0.06	0.090	0.109
	LTE Band 66_Ant 2	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.76	23.60	1.213	0.06	0.059	0.072
	LTE Band 66_Ant 2	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.78	23.60	1.208	-0.17	0.341	0.412
	LTE Band 66_Ant 2	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.76	23.60	1.213	-0.07	0.188	0.228
	LTE Band 66_Ant 2	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.78	23.60	1.208	0.19	0.106	0.128
	LTE Band 66_Ant 2	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.76	23.60	1.213	-0.02	0.070	0.085
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	132072	1720	22.69	23.60	1.233	0.07	0.463	0.571
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.71	23.60	1.227	0.05	0.426	0.523
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 2	DSI 3	132072	1720	22.69	23.60	1.233	0.12	0.433	0.534
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 3	DSI 3	132072	1720	22.69	23.60	1.233	0.09	0.407	0.502
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 2	Battery 1	DSI 3	132072	1720	22.69	23.60	1.233	0.01	0.440	0.543
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	10mm	Sample 3	Battery 1	DSI 3	132072	1720	22.69	23.60	1.233	-0.09	0.603	0.744
	LTE Band 66_Ant 4	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.47	23.30	1.211	0.02	0.210	0.254
	LTE Band 66_Ant 4	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 3	132572	1770	20.52	22.30	1.507	0.12	0.131	0.197
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.47	23.30	1.211	0.08	0.394	0.477
	LTE Band 66_Ant 4	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 3	132572	1770	20.52	22.30	1.507	-0.19	0.249	0.375
	LTE Band 66_Ant 4	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.47	23.30	1.211	-0.05	0.188	0.228
	LTE Band 66_Ant 4	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	20.52	22.30	1.507	0.13	0.117	0.176
	LTE Band 66_Ant 4	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.47	23.30	1.211	-0.18	0.051	0.062
	LTE Band 66_Ant 4	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	20.52	22.30	1.507	-0.02	0.038	0.057
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.47	23.30	1.211	-0.04	0.765	0.926
	LTE Band 66_Ant 4	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	20.52	22.30	1.507	0.07	0.490	0.738
44	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132072	1720	22.40	23.30	1.230	-0.03	0.911	1.121
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132322	1745	22.42	23.30	1.225	-0.15	0.858	1.051
	LTE Band 66_Ant 4	20M	QPSK	100	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	20.54	22.30	1.500	0.15	0.466	0.699
	LTE Band 66B_Ant 4	15M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132597	1772.5	23.07	23.30	1.054	0	0.755	0.796
	LTE Band 66C_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	132572	1770	22.62	23.30	1.169	0.04	0.672	0.786
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 3	132072	1720	22.40	23.30	1.230	-0.08	0.794	0.977
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 3	132072	1720	22.40	23.30	1.230	-0.17	0.765	0.941
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 3	132072	1720	22.40	23.30	1.230	-0.1	0.785	0.966
	LTE Band 66_Ant 4	20M	QPSK	1	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 3	132072	1720	22.40	23.30	1.230	-0.02	0.831	1.022
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	0.18	0.169	0.233
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	22.43	23.70	1.340	-0.17	0.149	0.200
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	0.16	0.187	0.258
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	22.43	23.70	1.340	-0.07	0.156	0.209
	LTE Band 71_Ant 0	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	-0.19	0.098	0.135
	LTE Band 71_Ant 0	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	22.43	23.70	1.340	-0.09	0.076	0.102
	LTE Band 71_Ant 0	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	-0.05	0.174	0.240
	LTE Band 71_Ant 0	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	22.43	23.70	1.340	0.12	0.144	0.193
45	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	-0.18	0.225	0.310
	LTE Band 71_Ant 0	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	133297	680.5	22.43	23.70	1.340	0.03	0.193	0.259
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	133297	680.5	23.31	24.70	1.377	0.02	0.193	0.266
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	133297	680.5	23.31	24.70	1.377	-0.18	0.159	0.219
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	-0.05	0.174	0.240
	LTE Band 71_Ant 0	20M	QPSK	1	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	133297	680.5	23.31	24.70	1.377	-0.01	0.166	0.229

**<TDD LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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_Ant 6	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	0.03	0.158	0.171
	LTE Band 41_Ant 6	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.47	23.70	1.327	62.9	1.006	0.14	0.126	0.168
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	0.01	0.673	0.727
	LTE Band 41_Ant 6	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.47	23.70	1.327	62.9	1.006	-0.02	0.522	0.697
46	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	0.05	0.840	0.908
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.52	23.70	1.312	62.9	1.006	-0.19	0.655	0.865
	LTE Band 41_Ant 6	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	-0.18	0.094	0.102
	LTE Band 41_Ant 6	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.47	23.70	1.327	62.9	1.006	0.12	0.074	0.099
	LTE Band 41_Ant 6	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	-0.04	0.314	0.339
	LTE Band 41_Ant 6	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.47	23.70	1.327	62.9	1.006	-0.06	0.255	0.341
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	39750	2506	23.11	23.70	1.146	62.9	1.006	-0.05	0.609	0.702
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40185	2549.5	23.19	23.70	1.125	62.9	1.006	0.16	0.596	0.674
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40620	2593	23.14	23.70	1.138	62.9	1.006	0.07	0.687	0.787
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41490	2680	23.32	23.70	1.091	62.9	1.006	0.09	0.787	0.864
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	39750	2506	22.00	23.70	1.479	62.9	1.006	0.04	0.435	0.647
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40185	2549.5	22.11	23.70	1.442	62.9	1.006	0.12	0.412	0.598
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40620	2593	22.20	23.70	1.413	62.9	1.006	0.09	0.525	0.746
	LTE Band 41_Ant 6	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41490	2680	22.40	23.70	1.349	62.9	1.006	0.14	0.425	0.577
	LTE Band 41_Ant 6	20M	QPSK	100	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.46	23.70	1.330	62.9	1.006	-0.15	0.549	0.735
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41490	2680	23.06	23.70	1.159	62.9	1.006	0.07	0.732	0.853
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	39750	2506	22.16	23.70	1.426	62.9	1.006	0.11	0.512	0.734
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40185	2549	22.59	23.70	1.291	62.9	1.006	-0.12	0.612	0.795
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40620	2593	22.84	23.70	1.219	62.9	1.006	0.18	0.633	0.776
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	22.92	23.70	1.197	62.9	1.006	-0.13	0.672	0.809
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	25.26	25.30	1.009	42.9	1.009	0.08	0.816	0.831
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	39750	2506	25.10	25.30	1.047	42.9	1.009	-0.05	0.504	0.533
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40185	2549.5	25.21	25.30	1.021	42.9	1.009	0.16	0.588	0.606
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40620	2593	25.05	25.30	1.059	42.9	1.009	0.07	0.672	0.718
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41490	2680	25.22	25.30	1.019	42.9	1.009	0.09	0.733	0.753
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41490	2680	25.10	25.30	1.047	42.9	1.009	0.12	0.711	0.751
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	39750	2506	24.26	25.30	1.271	42.9	1.009	0.15	0.512	0.656
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40185	2549	24.67	25.30	1.156	42.9	1.009	-0.12	0.612	0.714
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	40620	2593	24.88	25.30	1.102	42.9	1.009	0.16	0.633	0.704
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	41055	2636.5	24.90	25.30	1.096	42.9	1.009	-0.15	0.672	0.743
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 2	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	0.11	0.782	0.845
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 3	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	-0.18	0.745	0.805
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 2	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	0.11	0.659	0.712
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	10mm	Sample 3	Battery 1	DSI 3	41055	2636.5	23.39	23.70	1.074	62.9	1.006	-0.13	0.699	0.755



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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 48_Ant 12	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.61	15.90	1.069	62.9	1.006	-0.05	0.065	0.070
	LTE Band 48_Ant 12	20M	QPSK	50	24	Front	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	0.09	0.069	0.075
	LTE Band 48_Ant 12	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.61	15.90	1.069	62.9	1.006	0.09	0.281	0.302
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	-0.13	0.349	0.381
	LTE Band 48_Ant 12	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.61	15.90	1.069	62.9	1.006	-0.05	0.013	0.013
	LTE Band 48_Ant 12	20M	QPSK	50	24	Left Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	0.12	0.016	0.017
	LTE Band 48_Ant 12	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.61	15.90	1.069	62.9	1.006	-0.16	0.752	0.809
47	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	0.06	0.779	0.851
	LTE Band 48_Ant 12	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.61	15.90	1.069	62.9	1.006	0.17	0.025	0.027
	LTE Band 48_Ant 12	20M	QPSK	50	24	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	-0.08	0.034	0.038
	LTE Band 48_Ant 12	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	55340	3560	15.49	15.90	1.099	62.9	1.006	0.01	0.422	0.467
	LTE Band 48_Ant 12	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	15.40	15.90	1.122	62.9	1.006	-0.05	0.462	0.521
	LTE Band 48_Ant 12	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	56150	3641	15.46	15.90	1.107	62.9	1.006	0.12	0.532	0.592
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 1	Battery 1	DSI 3	55340	3560	15.50	15.90	1.096	62.9	1.006	-0.12	0.471	0.519
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	15.45	15.90	1.109	62.9	1.006	-0.04	0.489	0.545
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 1	Battery 1	DSI 3	56150	3641	15.53	15.90	1.089	62.9	1.006	0.11	0.592	0.649
	LTE Band 48_Ant 12	20M	QPSK	100	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	15.53	15.90	1.089	62.9	1.006	0.08	0.522	0.572
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 1	Battery 2	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	0.03	0.722	0.789
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 1	Battery 3	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	-0.04	0.689	0.753
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 2	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	0.09	0.521	0.570
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	10mm	Sample 3	Battery 1	DSI 3	56640	3690	15.54	15.90	1.086	62.9	1.006	-0.15	0.741	0.810
	LTE Band 48_Ant 11	20M	QPSK	1	0	Front	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.97	21.10	1.030	62.9	1.006	-0.19	0.120	0.124
	LTE Band 48_Ant 11	20M	QPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.22	21.00	1.197	62.9	1.006	0.04	0.097	0.117
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.97	21.10	1.030	62.9	1.006	-0.12	0.274	0.284
	LTE Band 48_Ant 11	20M	QPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.22	21.00	1.197	62.9	1.006	0.11	0.222	0.267
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.97	21.10	1.030	62.9	1.006	-0.19	0.697	0.722
	LTE Band 48_Ant 11	20M	QPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.22	21.00	1.197	62.9	1.006	-0.13	0.488	0.588
	LTE Band 48_Ant 11	20M	QPSK	1	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.97	21.10	1.030	62.9	1.006	0.05	0.001	0.001
	LTE Band 48_Ant 11	20M	QPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.22	21.00	1.197	62.9	1.006	-0.07	0.001	0.001
	LTE Band 48_Ant 11	20M	QPSK	1	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.97	21.10	1.030	62.9	1.006	0.02	0.001	0.001
	LTE Band 48_Ant 11	20M	QPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.22	21.00	1.197	62.9	1.006	0.03	0.001	0.001
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	55340	3560	20.92	21.10	1.042	62.9	1.006	-0.05	0.654	0.686
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	56150	3641	20.96	21.10	1.033	62.9	1.006	0.16	0.769	0.799
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	56640	3690	20.76	21.10	1.081	62.9	1.006	-0.13	0.649	0.706
	LTE Band 48C_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	55830	3609	20.54	21.10	1.138	62.9	1.006	0.14	0.522	0.597
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 2	DSI 3	56150	3641	20.96	21.10	1.033	62.9	1.006	0.03	0.725	0.753
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 1	Battery 3	DSI 3	56150	3641	20.96	21.10	1.033	62.9	1.006	-0.06	0.732	0.761
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 2	Battery 1	DSI 3	56150	3641	20.96	21.10	1.033	62.9	1.006	0.05	0.701	0.728
	LTE Band 48_Ant 11	20M	QPSK	1	0	Left Side	10mm	Sample 3	Battery 1	DSI 3	56150	3641	20.96	21.10	1.033	62.9	1.006	0.06	0.673	0.699



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n7_Ant 6	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.87	23.90	1.007	0.16	0.191	0.192
	FR1 n7_Ant 6	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	0.13	0.172	0.198
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.87	23.90	1.007	-0.05	0.588	0.592
	FR1 n7_Ant 6	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	-0.12	0.552	0.637
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.87	23.90	1.007	0.11	0.723	0.728
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	0	0.714	0.824
	FR1 n7_Ant 6	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.87	23.90	1.007	0.03	0.075	0.076
	FR1 n7_Ant 6	20M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	0.16	0.073	0.084
	FR1 n7_Ant 6	20M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.87	23.90	1.007	-0.05	0.448	0.451
	FR1 n7_Ant 6	20M	BPSK	50	28	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	0.03	0.292	0.337
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	502000	2510	23.25	23.90	1.161	0.11	0.657	0.763
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	507000	2535	23.37	23.90	1.130	0.17	0.634	0.716
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 2	DSI 3	512000	2560	23.28	23.90	1.153	0.08	0.676	0.780
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 3	DSI 3	512000	2560	23.28	23.90	1.153	0.12	0.652	0.752
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 2	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	-0.01	0.639	0.737
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Side	10mm	Sample 3	Battery 1	DSI 3	512000	2560	23.87	23.90	1.007	0.18	0.724	0.729
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Side	10mm	Sample 3	Battery 1	DSI 3	502000	2510	23.68	23.90	1.052	0.06	0.588	0.619
	FR1 n7_Ant 6	20M	BPSK	1	1	Left Side	10mm	Sample 3	Battery 1	DSI 3	507000	2535	23.70	23.90	1.047	0.16	0.605	0.634
48	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 3	Battery 1	DSI 3	512000	2560	23.28	23.90	1.153	0.1	0.794	0.916
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 3	Battery 1	DSI 3	502000	2510	23.25	23.90	1.161	-0.18	0.732	0.850
	FR1 n7_Ant 6	20M	BPSK	50	28	Left Side	10mm	Sample 3	Battery 1	DSI 3	507000	2535	23.37	23.90	1.130	0.06	0.684	0.773
	FR1 n7_Ant 6	20M	BPSK	100	0	Left Side	10mm	Sample 3	Battery 1	DSI 3	512000	2560	23.00	23.50	1.122	0.18	0.722	0.810
	FR1 n12_Ant 0	15M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.88	24.70	1.208	-0.15	0.147	0.178
	FR1 n12_Ant 0	15M	BPSK	36	0	Front	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	0.15	0.130	0.148
	FR1 n12_Ant 0	15M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.88	24.70	1.208	0.02	0.149	0.180
	FR1 n12_Ant 0	15M	BPSK	36	0	Back	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	0.07	0.145	0.165
	FR1 n12_Ant 0	15M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.88	24.70	1.208	0.07	0.063	0.076
	FR1 n12_Ant 0	15M	BPSK	36	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	0.19	0.071	0.081
	FR1 n12_Ant 0	15M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.88	24.70	1.208	-0.04	0.133	0.161
	FR1 n12_Ant 0	15M	BPSK	36	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	0.1	0.124	0.141
	FR1 n12_Ant 0	15M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.88	24.70	1.208	-0.03	0.187	0.226
49	FR1 n12_Ant 0	15M	BPSK	36	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	-0.16	0.238	0.271
	FR1 n12_Ant 0	15M	BPSK	36	0	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	141500	707.5	23.63	24.20	1.140	0.12	0.206	0.235
	FR1 n12_Ant 0	15M	BPSK	36	0	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	141500	707.5	23.63	24.20	1.140	0.07	0.195	0.222
	FR1 n12_Ant 0	15M	BPSK	36	0	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	0	0.147	0.168
	FR1 n12_Ant 0	15M	BPSK	36	0	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	141500	707.5	23.63	24.20	1.140	-0.01	0.168	0.192



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n13_Ant 0	10M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	-0.01	0.212	0.279
	FR1 n13_Ant 0	10M	BPSK	25	27	Front	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.18	24.00	1.208	-0.18	0.221	0.267
	FR1 n13_Ant 0	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	0.16	0.297	0.392
	FR1 n13_Ant 0	10M	BPSK	25	27	Back	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.18	24.00	1.208	-0.04	0.279	0.337
	FR1 n13_Ant 0	10M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	-0.13	0.086	0.113
	FR1 n13_Ant 0	10M	BPSK	25	27	Left Side	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.18	24.00	1.208	-0.14	0.100	0.121
	FR1 n13_Ant 0	10M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	0.08	0.250	0.330
	FR1 n13_Ant 0	10M	BPSK	25	27	Right Side	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.18	24.00	1.208	-0.07	0.251	0.303
	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	0.19	0.320	0.422
	FR1 n13_Ant 0	10M	BPSK	25	27	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	156400	782	23.18	24.00	1.208	0.12	0.222	0.268
	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	156400	782	23.30	24.50	1.318	0.08	0.294	0.388
	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	156400	782	23.30	24.50	1.318	0.01	0.258	0.340
50	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	-0.15	0.374	0.493
	FR1 n13_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	156400	782	23.30	24.50	1.318	0.13	0.239	0.315
	FR1 n14_Ant 0	10M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.36	24.70	1.081	-0.07	0.311	0.336
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	-0.01	0.314	0.347
	FR1 n14_Ant 0	10M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.36	24.70	1.081	-0.08	0.343	0.371
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	-0.15	0.316	0.349
	FR1 n14_Ant 0	10M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.36	24.70	1.081	-0.17	0.135	0.146
	FR1 n14_Ant 0	10M	BPSK	25	14	Left Side	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	-0.08	0.145	0.160
	FR1 n14_Ant 0	10M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.36	24.70	1.081	0.04	0.324	0.350
	FR1 n14_Ant 0	10M	BPSK	25	14	Right Side	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	0.16	0.309	0.341
	FR1 n14_Ant 0	10M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.36	24.70	1.081	0.14	0.340	0.368
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	-0.11	0.345	0.381
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	158600	793	24.27	24.70	1.104	-0.02	0.312	0.344
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	158600	793	24.27	24.70	1.104	0.19	0.307	0.339
51	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	-0.19	0.495	0.547
	FR1 n14_Ant 0	10M	BPSK	25	14	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	158600	793	24.27	24.70	1.104	-0.02	0.279	0.308



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n25_Ant 2	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.92	25.20	1.067	0.11	0.257	0.274
	FR1 n25_Ant 2	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.73	25.20	1.114	0.07	0.291	0.324
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.92	25.20	1.067	-0.18	0.395	0.421
	FR1 n25_Ant 2	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.73	25.20	1.114	0.16	0.390	0.435
	FR1 n25_Ant 2	20M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.92	25.20	1.067	0.15	0.190	0.203
	FR1 n25_Ant 2	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.73	25.20	1.114	-0.12	0.160	0.178
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.92	25.20	1.067	-0.06	0.427	0.455
	FR1 n25_Ant 2	20M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.73	25.20	1.114	-0.03	0.387	0.431
	FR1 n25_Ant 2	20M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.92	25.20	1.067	0.12	0.149	0.159
	FR1 n25_Ant 2	20M	BPSK	50	28	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	376500	1882.5	24.73	25.20	1.114	0.15	0.127	0.142
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	372000	1860	24.86	25.20	1.081	-0.19	0.324	0.350
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	381000	1905	24.75	25.20	1.109	0.03	0.501	0.556
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 2	DSI 0	381000	1905	24.75	25.20	1.109	0.12	0.476	0.528
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 3	DSI 0	381000	1905	24.75	25.20	1.109	0.07	0.452	0.501
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 2	Battery 1	DSI 0	381000	1905	24.75	25.20	1.109	-0.02	0.428	0.475
	FR1 n25_Ant 2	20M	BPSK	1	1	Right Side	10mm	Sample 3	Battery 1	DSI 0	381000	1905	24.75	25.20	1.109	-0.04	0.577	0.640
	FR1 n25_Ant 4	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.90	25.10	1.047	-0.17	0.142	0.149
	FR1 n25_Ant 4	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.81	25.10	1.069	-0.13	0.135	0.144
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.90	25.10	1.047	-0.13	0.659	0.690
	FR1 n25_Ant 4	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.81	25.10	1.069	0.1	0.643	0.687
	FR1 n25_Ant 4	20M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.90	25.10	1.047	-0.16	0.166	0.174
	FR1 n25_Ant 4	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.81	25.10	1.069	0.18	0.160	0.171
	FR1 n25_Ant 4	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.90	25.10	1.047	0.04	0.126	0.132
	FR1 n25_Ant 4	20M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.81	25.10	1.069	0.15	0.116	0.124
	FR1 n25_Ant 4	20M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.90	25.10	1.047	-0.18	0.601	0.629
	FR1 n25_Ant 4	20M	BPSK	50	28	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	381000	1905	24.81	25.10	1.069	-0.06	0.539	0.576
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	372000	1860	24.69	25.10	1.099	-0.12	0.644	0.708
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	376500	1882.5	24.65	25.10	1.109	0.09	0.396	0.439
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	DSI 3	372000	1860	24.69	25.10	1.099	0.01	0.612	0.673
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	DSI 3	372000	1860	24.69	25.10	1.099	-0.12	0.583	0.641
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 2	Battery 1	DSI 3	372000	1860	24.69	25.10	1.099	0.06	0.593	0.652
52	FR1 n25_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	DSI 3	372000	1860	24.69	25.10	1.099	0.03	0.690	0.758
	FR1 n26_Ant 4	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.80	25.20	1.096	-0.1	0.331	0.363
	FR1 n26_Ant 4	20M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	-0.16	0.320	0.359
	FR1 n26_Ant 4	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.80	25.20	1.096	-0.03	0.335	0.367
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	-0.17	0.377	0.423
	FR1 n26_Ant 4	20M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.80	25.20	1.096	-0.13	0.170	0.186
	FR1 n26_Ant 4	20M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	0.01	0.165	0.185
	FR1 n26_Ant 4	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.80	25.20	1.096	-0.13	0.088	0.096
	FR1 n26_Ant 4	20M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	-0.14	0.083	0.093
	FR1 n26_Ant 4	20M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.80	25.20	1.096	0.15	0.255	0.280
	FR1 n26_Ant 4	20M	BPSK	50	28	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	0.01	0.267	0.300
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 2	DSI 0	166300	831.5	24.70	25.20	1.122	0.15	0.350	0.393
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	10mm	Sample 1	Battery 3	DSI 0	166300	831.5	24.70	25.20	1.122	0.09	0.324	0.364
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	10mm	Sample 2	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	-0.11	0.374	0.420
53	FR1 n26_Ant 4	20M	BPSK	50	28	Back	10mm	Sample 3	Battery 1	DSI 0	166300	831.5	24.70	25.20	1.122	-0.17	0.411	0.461



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n66_Ant 2	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	-0.17	0.162	0.185
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.12	23.70	1.143	0.15	0.131	0.150
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	0.16	0.460	0.525
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.12	23.70	1.143	0.06	0.394	0.450
	FR1 n66_Ant 2	40M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	0	0.099	0.113
	FR1 n66_Ant 2	40M	BPSK	108	54	Left Side	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.12	23.70	1.143	-0.15	0.117	0.133
	FR1 n66_Ant 2	40M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	0.08	0.266	0.304
	FR1 n66_Ant 2	40M	BPSK	108	54	Right Side	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.12	23.70	1.143	-0.05	0.305	0.349
	FR1 n66_Ant 2	40M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	0.16	0.111	0.127
	FR1 n66_Ant 2	40M	BPSK	108	54	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	349000	1745	23.12	23.70	1.143	-0.19	0.106	0.121
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	DSI 3	349000	1745	23.13	23.70	1.140	0.08	0.425	0.485
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	DSI 3	349000	1745	23.13	23.70	1.140	-0.11	0.411	0.469
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	Sample 2	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	0.1	0.499	0.569
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	DSI 3	349000	1745	23.13	23.70	1.140	-0.14	0.636	0.725
	FR1 n66_Ant 4	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	-0.01	0.177	0.195
	FR1 n66_Ant 4	40M	BPSK	108	54	Front	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.53	25.20	1.167	-0.13	0.165	0.193
	FR1 n66_Ant 4	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	0.14	0.316	0.348
	FR1 n66_Ant 4	40M	BPSK	108	54	Back	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.53	25.20	1.167	0.11	0.302	0.352
	FR1 n66_Ant 4	40M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	-0.08	0.130	0.143
	FR1 n66_Ant 4	40M	BPSK	108	54	Left Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.53	25.20	1.167	0.08	0.125	0.146
	FR1 n66_Ant 4	40M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	-0.11	0.059	0.065
	FR1 n66_Ant 4	40M	BPSK	108	54	Right Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.53	25.20	1.167	0.06	0.053	0.062
54	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	-0.14	0.881	0.970
	FR1 n66_Ant 4	40M	BPSK	108	54	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.53	25.20	1.167	0.06	0.635	0.741
	FR1 n66_Ant 4	40M	BPSK	216	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	349000	1745	24.05	24.70	1.161	0.06	0.706	0.820
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 2	DSI 0	349000	1745	24.78	25.20	1.102	-0.15	0.794	0.875
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 3	DSI 0	349000	1745	24.78	25.20	1.102	-0.09	0.765	0.843
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Side	10mm	Sample 2	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	0.16	0.672	0.740
	FR1 n66_Ant 4	40M	BPSK	1	1	Bottom Side	10mm	Sample 3	Battery 1	DSI 0	349000	1745	24.78	25.20	1.102	0.12	0.864	0.952
	FR1 n71_Ant 0	20M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	-0.11	0.216	0.265
	FR1 n71_Ant 0	20M	BPSK	50	0	Front	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.60	24.20	1.148	0.16	0.172	0.198
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	0.12	0.231	0.285
	FR1 n71_Ant 0	20M	BPSK	50	0	Back	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.60	24.20	1.148	0.06	0.194	0.223
	FR1 n71_Ant 0	20M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	0.14	0.104	0.128
	FR1 n71_Ant 0	20M	BPSK	50	0	Left Side	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.60	24.20	1.148	-0.1	0.089	0.102
	FR1 n71_Ant 0	20M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	0.06	0.208	0.256
	FR1 n71_Ant 0	20M	BPSK	50	0	Right Side	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.60	24.20	1.148	0.02	0.190	0.218
	FR1 n71_Ant 0	20M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	0.15	0.222	0.274
	FR1 n71_Ant 0	20M	BPSK	50	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	136100	680.5	23.60	24.20	1.148	0.14	0.191	0.219
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 2	DSI 0	136100	680.5	23.80	24.70	1.230	-0.17	0.189	0.233
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	Sample 1	Battery 3	DSI 0	136100	680.5	23.80	24.70	1.230	-0.09	0.178	0.219
55	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	Sample 2	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	0.03	0.302	0.372
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	10mm	Sample 3	Battery 1	DSI 0	136100	680.5	23.80	24.70	1.230	0.07	0.254	0.312



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.34	23.30	1.247	-0.07	0.103	0.128
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	-0.03	0.134	0.174
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.34	23.30	1.247	-0.16	0.306	0.382
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	-0.12	0.396	0.515
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.34	23.30	1.247	-0.03	0.431	0.538
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	-0.14	0.674	0.876
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.34	23.30	1.247	-0.16	0.045	0.056
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Right Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	0.05	0.061	0.079
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.34	23.30	1.247	0.03	0.205	0.256
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	0.19	0.264	0.343
	FR1 n41_HPUE_Ant 6	100M	BPSK	270	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.15	23.30	1.303	0.11	0.612	0.798
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	10mm	Sample 1	Battery 2	DSI 3	518598	2592.99	22.16	23.30	1.300	-0.03	0.598	0.778
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	10mm	Sample 1	Battery 3	DSI 3	518598	2592.99	22.16	23.30	1.300	-0.11	0.574	0.746
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	10mm	Sample 2	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	0.11	0.587	0.763
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	10mm	Sample 3	Battery 1	DSI 3	518598	2592.99	22.16	23.30	1.300	-0.03	0.668	0.869
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.13	0.269	0.349
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	0.17	0.365	0.473
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.14	0.128	0.166
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	0.18	0.512	0.665
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Bottom Side	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	0.06	0.078	0.101
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 2	DSI 0	518598	2592.99	25.87	27.00	1.297	0.16	0.321	0.416
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 3	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.18	0.298	0.387
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Side	10mm	Sample 2	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.16	0.635	0.824
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Right Side	10mm	Sample 3	Battery 1	DSI 0	518598	2592.99	25.87	27.00	1.297	0.08	0.470	0.609
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	0.05	0.367	0.436
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.14	0.267	0.317
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	0.14	0.197	0.234
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.02	0.115	0.137
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.14	0.424	0.504
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 2	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.06	0.367	0.436
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 3	DSI 0	518598	2592.99	26.25	27.00	1.189	0.1	0.354	0.421
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Top Side	10mm	Sample 2	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.01	0.358	0.425
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Top Side	10mm	Sample 3	Battery 1	DSI 0	518598	2592.99	26.25	27.00	1.189	0.01	0.357	0.424
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	0.17	0.177	0.238
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	0.15	0.190	0.256
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	0.07	0.367	0.494
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	0.06	0.053	0.071
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	-0.1	0.030	0.040
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 2	DSI 3	518598	2592.99	22.61	23.90	1.346	0.15	0.322	0.433
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 3	DSI 3	518598	2592.99	22.61	23.90	1.346	-0.02	0.301	0.405
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	10mm	Sample 2	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	0.07	0.387	0.521
56	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	10mm	Sample 3	Battery 1	DSI 3	518598	2592.99	22.61	23.90	1.346	0.09	0.659	0.887



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n48_Ant 12	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.39	18.50	1.026	-0.12	0.062	0.064
	FR1 n48_Ant 12	40M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.29	18.50	1.050	0.11	0.061	0.064
	FR1 n48_Ant 12	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.39	18.50	1.026	0.13	0.580	0.595
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.29	18.50	1.050	-0.14	0.591	0.620
	FR1 n48_Ant 12	40M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.39	18.50	1.026	0.01	0.001	0.001
	FR1 n48_Ant 12	40M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.29	18.50	1.050	0.13	0.001	0.001
	FR1 n48_Ant 12	40M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.39	18.50	1.026	-0.14	0.912	0.935
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.29	18.50	1.050	0.06	0.922	0.968
	FR1 n48_Ant 12	40M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.39	18.50	1.026	0	0.001	0.001
	FR1 n48_Ant 12	40M	BPSK	50	28	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.29	18.50	1.050	0.14	0.001	0.001
	FR1 n48_Ant 12	40M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	638000	3570	18.37	18.50	1.030	-0.14	0.816	0.841
	FR1 n48_Ant 12	40M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	645332	3679.98	18.13	18.50	1.089	0.12	0.825	0.898
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 3	638000	3570	18.28	18.50	1.052	0.11	0.852	0.896
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 3	645332	3679.98	17.94	18.50	1.138	0.19	0.892	1.015
	FR1 n48_Ant 12	40M	BPSK	100	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	18.18	18.50	1.076	-0.19	0.806	0.868
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 2	DSI 3	645332	3679.98	17.94	18.50	1.138	0.12	0.798	0.908
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 3	DSI 3	645332	3679.98	17.94	18.50	1.138	0.08	0.785	0.893
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 2	Battery 1	DSI 3	645332	3679.98	17.94	18.50	1.138	-0.18	0.916	1.042
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 3	Battery 1	DSI 3	641666	3624.99	18.29	18.50	1.050	0.08	0.822	0.863
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 3	Battery 1	DSI 3	638000	3570	18.28	18.50	1.052	0.13	0.859	0.904
57	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	10mm	Sample 3	Battery 1	DSI 3	645332	3679.98	17.94	18.50	1.138	0.18	0.946	1.076
	FR1 n48_Ant 11	40M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.57	18.20	1.156	-0.12	0.088	0.102
	FR1 n48_Ant 11	40M	BPSK	50	28	Front	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.38	18.20	1.208	0.14	0.085	0.103
	FR1 n48_Ant 11	40M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.57	18.20	1.156	0.06	0.234	0.271
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.38	18.20	1.208	0.11	0.273	0.330
	FR1 n48_Ant 11	40M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.57	18.20	1.156	0.15	0.437	0.505
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.38	18.20	1.208	-0.11	0.479	0.578
	FR1 n48_Ant 11	40M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.57	18.20	1.156	-0.14	0.028	0.033
	FR1 n48_Ant 11	40M	BPSK	50	28	Right Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.38	18.20	1.208	0.06	0.037	0.045
	FR1 n48_Ant 11	40M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.57	18.20	1.156	0.13	0.017	0.019
	FR1 n48_Ant 11	40M	BPSK	50	28	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	641666	3624.99	17.38	18.20	1.208	0.09	0.020	0.024
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	638000	3570	17.35	18.20	1.216	0.01	0.482	0.586
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 1	DSI 3	645332	3679.98	17.37	18.20	1.211	0.02	0.492	0.596
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 2	DSI 3	645332	3679.98	17.37	18.20	1.211	0.08	0.446	0.540
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 1	Battery 3	DSI 3	645332	3679.98	17.37	18.20	1.211	-0.11	0.425	0.515
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 2	Battery 1	DSI 3	645332	3679.98	17.37	18.20	1.211	-0.14	0.314	0.380
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	10mm	Sample 3	Battery 1	DSI 3	645332	3679.98	17.37	18.20	1.211	0.01	0.428	0.519



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	0.11	0.076	0.089
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.00	15.80	1.202	-0.12	0.069	0.083
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	0.02	0.296	0.347
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.00	15.80	1.202	0.03	0.280	0.336
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	-0.19	0.001	0.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Left Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.00	15.80	1.202	-0.05	0.001	0.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	0.06	0.712	0.835
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Right Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.00	15.80	1.202	-0.1	0.594	0.714
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	0.16	0.029	0.034
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	15.00	15.80	1.202	0.01	0.021	0.025
	FR1 n77_HPUE_Ant 12	100M	BPSK	270	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	14.91	15.80	1.227	-0.1	0.622	0.763
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 2	DSI 3	656000	3840	15.11	15.80	1.172	-0.02	0.684	0.802
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 3	DSI 3	656000	3840	15.11	15.80	1.172	-0.04	0.658	0.771
58	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 2	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	0.18	1.010	1.184
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 3	Battery 1	DSI 3	656000	3840	15.11	15.80	1.172	-0.06	0.694	0.814
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	-0.04	0.031	0.039
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Front	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.69	15.80	1.291	0.17	0.029	0.037
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	0.17	0.167	0.210
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Back	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.69	15.80	1.291	0.18	0.161	0.208
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	-0.05	0.001	0.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.69	15.80	1.291	-0.1	0.001	0.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	-0.18	0.250	0.314
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Right Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.69	15.80	1.291	0.19	0.238	0.307
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	0.09	0.001	0.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	14.69	15.80	1.291	0.07	0.001	0.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 2	DSI 3	633332	3499.98	14.81	15.80	1.256	-0.05	0.226	0.284
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 3	DSI 3	633332	3499.98	14.81	15.80	1.256	0.18	0.217	0.273
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 2	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	-0.11	0.366	0.460
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	10mm	Sample 3	Battery 1	DSI 3	633332	3499.98	14.81	15.80	1.256	0.01	0.233	0.292



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	-0.1	0.157	0.172
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.79	17.30	1.125	-0.06	0.147	0.165
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	-0.02	0.328	0.360
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.79	17.30	1.125	-0.04	0.318	0.358
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	0.06	0.648	0.711
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Left Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.79	17.30	1.125	-0.16	0.630	0.708
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	0.02	0.023	0.025
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Right Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.79	17.30	1.125	-0.12	0.017	0.019
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	0.03	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.79	17.30	1.125	-0.08	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	270	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	16.75	17.30	1.135	0.06	0.606	0.688
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 2	DSI 3	656000	3840	16.90	17.30	1.096	-0.11	0.625	0.685
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 3	DSI 3	656000	3840	16.90	17.30	1.096	-0.08	0.610	0.669
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 2	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	0.11	0.758	0.831
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 3	Battery 1	DSI 3	656000	3840	16.90	17.30	1.096	0.08	0.646	0.709
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Front	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	0.1	0.118	0.128
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Front	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.82	17.30	1.117	-0.04	0.102	0.114
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	0.1	0.282	0.306
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.82	17.30	1.117	0.05	0.268	0.299
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	0.11	0.587	0.638
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Left Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.82	17.30	1.117	0.04	0.554	0.619
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Right Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	0.04	0.021	0.023
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Right Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.82	17.30	1.117	-0.13	0.011	0.012
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	0.03	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Bottom Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.82	17.30	1.117	0.01	0.001	0.001
	FR1 n77_HPUE_Ant 11	100M	BPSK	270	0	Left Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	16.63	17.30	1.167	0.11	0.522	0.609
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 2	DSI 3	633332	3499.98	16.94	17.30	1.086	0.05	0.534	0.580
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 1	Battery 3	DSI 3	633332	3499.98	16.94	17.30	1.086	-0.16	0.551	0.599
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 2	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	-0.08	0.737	0.800
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	10mm	Sample 3	Battery 1	DSI 3	633332	3499.98	16.94	17.30	1.086	-0.05	0.397	0.431



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Output Power State	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)
	FR1 n77_Ant 5	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	0.19	0.318	0.372
	FR1 n77_Ant 5	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	0.01	0.526	0.616
	FR1 n77_Ant 5	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	-0.01	0.068	0.080
	FR1 n77_Ant 5	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	0.05	0.105	0.123
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	-0.19	0.784	0.917
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 2	DSI 3	656000	3840	18.02	18.70	1.169	0.01	0.753	0.881
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 3	DSI 3	656000	3840	18.02	18.70	1.169	0.1	0.725	0.848
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 2	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	-0.12	0.855	1.000
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 3	Battery 1	DSI 3	656000	3840	18.02	18.70	1.169	-0.13	0.658	0.770
	FR1 n77_Ant 5	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	0.02	0.270	0.307
	FR1 n77_Ant 5	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	0.03	0.359	0.408
	FR1 n77_Ant 5	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	-0.12	0.038	0.043
	FR1 n77_Ant 5	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	0.04	0.148	0.168
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	-0.02	0.580	0.658
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 2	DSI 3	633332	3499.98	18.15	18.70	1.135	-0.19	0.547	0.621
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 3	DSI 3	633332	3499.98	18.15	18.70	1.135	-0.1	0.532	0.604
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 2	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	0.1	0.626	0.710
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	10mm	Sample 3	Battery 1	DSI 3	633332	3499.98	18.15	18.70	1.135	0.18	0.587	0.666
	FR1 n77_Ant 3	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	0.03	0.100	0.130
	FR1 n77_Ant 3	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	-0.14	0.269	0.351
	FR1 n77_Ant 3	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	-0.02	0.001	0.001
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	-0.18	0.368	0.480
	FR1 n77_Ant 3	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	-0.09	0.055	0.072
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 2	DSI 0	656000	3840	21.85	23.00	1.303	0.07	0.246	0.321
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 3	DSI 0	656000	3840	21.85	23.00	1.303	0.14	0.234	0.305
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 2	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	0.13	0.378	0.493
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 3	Battery 1	DSI 0	656000	3840	21.85	23.00	1.303	-0.14	0.383	0.499
	FR1 n77_Ant 3	100M	CW	-	-	Front	10mm	Sample 1	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	0.18	0.023	0.029
	FR1 n77_Ant 3	100M	CW	-	-	Back	10mm	Sample 1	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	0.19	0.042	0.053
	FR1 n77_Ant 3	100M	CW	-	-	Left Side	10mm	Sample 1	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	-0.06	0.001	0.001
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	-0.09	0.060	0.075
	FR1 n77_Ant 3	100M	CW	-	-	Top Side	10mm	Sample 1	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	0.12	0.025	0.031
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 2	DSI 0	633332	3499.98	22.01	23.00	1.256	0.16	0.052	0.065
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 1	Battery 3	DSI 0	633332	3499.98	22.01	23.00	1.256	-0.02	0.050	0.063
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 2	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	0.11	0.054	0.068
	FR1 n77_Ant 3	100M	CW	-	-	Right Side	10mm	Sample 3	Battery 1	DSI 0	633332	3499.98	22.01	23.00	1.256	-0.03	0.065	0.082



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	0	0.141	0.158
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.06	0.381	0.426
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	1	2412	20.50	20.50	1.000	95.9	1.043	0	0.490	0.511
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	6	2437	20.00	20.50	1.122	95.9	1.043	-0.09	0.407	0.476
59	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.01	0.565	0.661
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.02	0.201	0.225
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.07	0.118	0.132
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 2	Ant 9+8(9)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.12	0.524	0.613
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 3	Ant 9+8(9)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.07	0.508	0.594
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 2	Battery 1	Ant 9+8(9)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.17	0.366	0.428
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.09	0.383	0.448
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	-0.02	0.103	0.123
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	0.04	0.279	0.334
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	1	2412	19.60	20.00	1.096	95.9	1.043	-0.18	0.319	0.365
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	6	2437	19.00	20.00	1.259	95.9	1.043	-0.1	0.263	0.345
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	11	2462	19.30	20.00	1.175	95.9	1.043	-0.17	0.318	0.390
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	-0.1	0.148	0.177
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	0	0.087	0.104
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 2	Ant 9+8(9)	DBS	11	2462	19.30	20.00	1.175	95.9	1.043	0.04	0.289	0.354
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 3	Ant 9+8(9)	DBS	11	2462	19.30	20.00	1.175	95.9	1.043	-0.1	0.277	0.339
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 2	Battery 1	Ant 9+8(9)	DBS	11	2462	19.30	20.00	1.175	95.9	1.043	0.01	0.268	0.328
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 3	Battery 1	Ant 9+8(9)	DBS	11	2462	19.30	20.00	1.175	95.9	1.043	0.02	0.281	0.344
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.02	0.122	0.133
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	-0.12	0.177	0.193
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	-0.03	0.039	0.043
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.19	0.250	0.273
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	0.06	0.262	0.300
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 8	non-DBS	11	2462	20.50	21.00	1.122	95.9	1.043	0.14	0.227	0.266
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Sample 1	Battery 1	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	-0.08	0.110	0.120
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 2	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	-0.07	0.243	0.278
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 3	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	-0.16	0.240	0.274
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 2	Battery 1	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	0.13	0.238	0.272
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 3	Battery 1	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	0.09	0.225	0.257
	WLAN2.4GHZ	802.11b 1Mbps	Front	10mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	0.03	0.069	0.072
	WLAN2.4GHZ	802.11b 1Mbps	Back	10mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.07	0.100	0.104
	WLAN2.4GHZ	802.11b 1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.14	0.022	0.023
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	0.06	0.141	0.147
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.07	0.148	0.177
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 8	DBS	11	2462	19.40	20.00	1.148	95.9	1.043	-0.1	0.128	0.153
	WLAN2.4GHZ	802.11b 1Mbps	Top Side	10mm	Sample 1	Battery 1	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.14	0.062	0.065
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 2	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.18	0.125	0.150
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 1	Battery 3	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.12	0.117	0.140
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 2	Battery 1	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	-0.14	0.135	0.162
	WLAN2.4GHZ	802.11b 1Mbps	Right Side	10mm	Sample 3	Battery 1	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	0.03	0.127	0.152



Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	46	5230	16.10	16.50	1.096	100.00	1.000	-0.03	0.166	0.182
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	46	5230	16.10	16.50	1.096	100.00	1.000	0.03	0.355	0.389
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	46	5230	16.40	16.50	1.023	100.00	1.000	0.11	0.561	0.574
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	38	5190	14.50	15.00	1.122	100.00	1.000	0.05	0.297	0.333
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	46	5230	16.10	16.50	1.096	100.00	1.000	-0.02	0.156	0.171
	WLAN5GHz	802.11n-HT40 MCS0	Top side	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	46	5230	16.10	16.50	1.096	100.00	1.000	0.09	0.113	0.124
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 2	Ant 9+8(9)	non-DBS	46	5230	16.40	16.50	1.023	100.00	1.000	-0.18	0.543	0.556
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 3	Ant 9+8(9)	non-DBS	46	5230	16.40	16.50	1.023	100.00	1.000	0.03	0.537	0.550
60	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 2	Battery 1	Ant 9+8(9)	non-DBS	46	5230	16.40	16.50	1.023	100.00	1.000	-0.07	0.566	0.579
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	46	5230	16.40	16.50	1.023	100.00	1.000	-0.17	0.385	0.394
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	46	5230	14.30	15.00	1.175	100.00	1.000	-0.14	0.096	0.113
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	46	5230	14.30	15.00	1.175	100.00	1.000	-0.02	0.204	0.240
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	46	5230	15.00	15.00	1.000	100.00	1.000	-0.04	0.283	0.283
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	38	5190	14.70	15.00	1.072	100.00	1.000	0.06	0.261	0.280
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	46	5230	14.30	15.00	1.175	100.00	1.000	0.03	0.090	0.106
	WLAN5GHz	802.11n-HT40 MCS0	Top side	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	46	5230	14.30	15.00	1.175	100.00	1.000	-0.05	0.065	0.076
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 2	Ant 9+8(9)	DBS	46	5230	15.00	15.00	1.000	100.00	1.000	0.04	0.269	0.269
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 3	Ant 9+8(9)	DBS	46	5230	15.00	15.00	1.000	100.00	1.000	-0.15	0.252	0.252
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 2	Battery 1	Ant 9+8(9)	DBS	46	5230	15.00	15.00	1.000	100.00	1.000	0.06	0.284	0.284
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 3	Battery 1	Ant 9+8(9)	DBS	46	5230	15.00	15.00	1.000	100.00	1.000	-0.16	0.222	0.222
	WLAN5GHz	802.11a 6Mbps	Front	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	0.03	0.155	0.181
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	0.03	0.494	0.578
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	149	5745	16.60	17.50	1.230	98.10	1.019	-0.07	0.453	0.568
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	165	5825	16.60	17.50	1.230	98.10	1.019	-0.02	0.457	0.573
	WLAN5GHz	802.11a 6Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	157	5785	17.00	17.50	1.122	98.10	1.019	-0.08	0.474	0.542
	WLAN5GHz	802.11a 6Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	-0.12	0.279	0.326
	WLAN5GHz	802.11a 6Mbps	Top side	10mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	-0.18	0.230	0.269
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	0.18	0.472	0.552
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	0.17	0.449	0.525
61	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	-0.13	0.645	0.755
	WLAN5GHz	802.11a 6Mbps	Back	10mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	98.10	1.019	-0.15	0.443	0.518
	WLAN5GHz	802.11n-HT40 MCS0	Front	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	-0.06	0.084	0.105
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	-0.04	0.269	0.337
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	159	5795	14.60	15.50	1.230	98.10	1.019	0.05	0.243	0.305
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	10mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	151	5755	15.40	15.50	1.023	98.10	1.019	-0.16	0.258	0.269
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	-0.09	0.152	0.191
	WLAN5GHz	802.11n-HT40 MCS0	Top side	10mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	0.08	0.125	0.157
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 1	Battery 2	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	0.01	0.245	0.307
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 1	Battery 3	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	0.12	0.227	0.285
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 2	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	-0.02	0.351	0.440
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Sample 3	Battery 1	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	98.10	1.019	-0.16	0.241	0.302

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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)
62	Bluetooth	1Mbps	Front	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0.06	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0.02	0.001	0.001
	Bluetooth	1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0.1	0.004	0.005
	Bluetooth	1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	39	2441	4.25	4.50	1.059	76.83	1.084	0.07	0.001	0.001
	Bluetooth	1Mbps	Left Side	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	78	2480	3.51	4.50	1.256	76.83	1.084	-0.19	0.001	0.001
	Bluetooth	1Mbps	Right Side	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	-0.02	0.001	0.001
	Bluetooth	1Mbps	Top side	10mm	Sample 1	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	-0.11	0.001	0.001
	Bluetooth	1Mbps	Left Side	10mm	Sample 1	Battery 2	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	-0.02	0.002	0.002
	Bluetooth	1Mbps	Left Side	10mm	Sample 1	Battery 3	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0.17	0.001	0.001
	Bluetooth	1Mbps	Left Side	10mm	Sample 2	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0.03	0.001	0.001
	Bluetooth	1Mbps	Left Side	10mm	Sample 3	Battery 1	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	-0.16	0.001	0.001

15.3 Body Worn Accessory SAR
<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
63	GSM850_Ant 4	GPRS (4 Tx slots)	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	128	824.2	29.71	30.50	1.199	0.01	0.207	0.248
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	128	824.2	29.71	30.50	1.199	0.08	0.282	0.338
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	189	836.4	29.70	30.50	1.202	0.01	0.313	0.376
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	251	848.8	29.47	30.50	1.268	0.01	0.353	0.447
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	251	848.8	29.47	30.50	1.268	0.07	0.342	0.434
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	251	848.8	29.47	30.50	1.268	-0.11	0.320	0.406
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	251	848.8	29.47	30.50	1.268	-0.06	0.707	0.896
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	251	848.8	29.47	30.50	1.268	-0.17	0.771	0.977
	GSM850_Ant 4	GPRS (4 Tx slots)	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	251	848.8	29.47	30.50	1.268	-0.04	0.724	0.918
	GSM1900_Ant 4	GPRS (4 Tx slots)	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	0.15	0.065	0.096
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	810	1909.8	25.79	27.50	1.483	-0.01	0.325	0.482
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	512	1850.2	25.59	27.50	1.552	-0.05	0.341	0.529
64	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	-0.06	0.368	0.561
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	0.12	0.328	0.500
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	-0.08	0.331	0.504
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	0.18	0.587	0.895
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	-0.08	0.652	0.994
	GSM1900_Ant 4	GPRS (4 Tx slots)	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	661	1880	25.67	27.50	1.524	-0.08	0.474	0.722

**<WCDMA SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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_Ant 2	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	9400	1880	24.12	25.20	1.282	-0.02	0.210	0.269
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	9400	1880	24.12	25.20	1.282	-0.05	0.336	0.431
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	9262	1852.4	24.02	25.20	1.312	0.16	0.284	0.373
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	0	0.370	0.486
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	0.08	0.352	0.462
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	0.11	0.333	0.437
65	WCDMA II_Ant 2	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	-0.1	0.501	0.657
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	-0.18	0.389	0.510
	WCDMA II_Ant 2	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	9538	1907.6	24.02	25.20	1.312	0.15	0.453	0.594
	WCDMA IV_Ant 2	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	1413	1732.6	23.76	25.20	1.393	0.05	0.075	0.104
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	1413	1732.6	23.76	25.20	1.393	0.13	0.233	0.325
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	1312	1712.4	23.66	25.20	1.426	-0.15	0.229	0.326
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	0.08	0.231	0.346
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.03	0.207	0.310
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.15	0.194	0.291
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	0.05	0.308	0.462
	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.08	0.327	0.490
66	WCDMA IV_Ant 2	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	1513	1752.6	23.44	25.20	1.500	-0.17	0.403	0.604
	WCDMA V_Ant 4	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	-0.06	0.322	0.361
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	0.01	0.527	0.591
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	4132	826.4	24.60	25.20	1.148	0.04	0.479	0.550
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	4233	846.6	24.64	25.20	1.138	0.09	0.356	0.405
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	0.17	0.485	0.544
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	0.08	0.492	0.552
67	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	-0.04	0.893	1.002
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	-0.18	0.853	0.957
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	-0.12	0.874	0.981
	WCDMA V_Ant 4	RMC 12.2Kbps	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	-0.06	0.322	0.353
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	0.01	0.527	0.578
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	4132	826.4	24.60	25.10	1.122	0.04	0.479	0.537
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	4233	846.6	24.64	25.10	1.112	0.09	0.356	0.396
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	0.17	0.485	0.532
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	0.08	0.492	0.539
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	-0.04	0.893	0.979
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	-0.18	0.853	0.935
	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	4182	836.4	24.70	25.10	1.096	-0.12	0.874	0.958

**<FDD LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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_Ant 6	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	21350	2560	23.05	24.00	1.245	-0.08	0.093	0.116
	LTE Band 7_Ant 6	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	21350	2560	22.19	23.00	1.205	0.09	0.059	0.071
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	21350	2560	23.05	24.00	1.245	-0.14	0.353	0.439
	LTE Band 7_Ant 6	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	21350	2560	22.19	23.00	1.205	-0.11	0.221	0.266
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	20850	2510	22.86	24.00	1.300	0.08	0.374	0.486
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	21100	2535	22.64	24.00	1.368	0.13	0.340	0.465
	LTE Band 7C_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	21350	2560	23.84	24.00	1.038	0.15	0.355	0.368
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	20850	2510	22.86	24.00	1.300	-0.09	0.338	0.439
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	20850	2510	22.86	24.00	1.300	-0.18	0.319	0.415
68	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	20850	2510	22.86	24.00	1.300	-0.12	0.403	0.524
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	20850	2510	22.86	24.00	1.300	-0.05	0.334	0.434
	LTE Band 7_Ant 6	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	20850	2510	22.86	24.00	1.300	0.16	0.326	0.424
	LTE Band 12_Ant 0	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	-0.08	0.265	0.339
	LTE Band 12_Ant 0	10M	QPSK	25	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23095	707.5	22.71	23.70	1.256	-0.18	0.193	0.242
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.07	0.289	0.370
	LTE Band 12_Ant 0	10M	QPSK	25	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23095	707.5	22.71	23.70	1.256	0.13	0.216	0.271
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.07	0.225	0.288
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.15	0.231	0.296
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0	0.341	0.436
69	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.06	0.394	0.504
	LTE Band 12_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23095	707.5	23.63	24.70	1.279	0.13	0.356	0.455
	LTE Band 13_Ant 0	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.01	0.221	0.294
	LTE Band 13_Ant 0	10M	QPSK	25	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23230	782	22.39	23.50	1.291	-0.09	0.185	0.239
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.15	0.252	0.335
	LTE Band 13_Ant 0	10M	QPSK	25	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23230	782	22.39	23.50	1.291	-0.11	0.195	0.252
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.11	0.231	0.307
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.16	0.215	0.286
70	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	0.06	0.384	0.511
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	-0.02	0.381	0.507
	LTE Band 13_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23230	782	23.26	24.50	1.330	-0.02	0.383	0.510
	LTE Band 14_Ant 0	10M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.03	0.299	0.404
	LTE Band 14_Ant 0	10M	QPSK	25	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23330	793	22.44	23.70	1.337	-0.12	0.236	0.315
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.11	0.349	0.472
	LTE Band 14_Ant 0	10M	QPSK	25	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	23330	793	22.44	23.70	1.337	-0.07	0.271	0.362
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.02	0.325	0.439
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	-0.14	0.320	0.433
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.17	0.488	0.660
	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.18	0.470	0.635
71	LTE Band 14_Ant 0	10M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	23330	793	23.39	24.70	1.352	0.12	0.494	0.668



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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_Ant 2	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26590	1905	24.46	25.20	1.186	0.12	0.155	0.184
	LTE Band 25_Ant 2	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26590	1905	23.57	24.20	1.156	-0.07	0.104	0.120
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26590	1905	24.46	25.20	1.186	0.05	0.244	0.289
	LTE Band 25_Ant 2	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26590	1905	23.57	24.20	1.156	0.16	0.156	0.180
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	0.15	0.288	0.367
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26340	1880	24.33	25.20	1.222	-0.04	0.256	0.313
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	Battery2	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	0.06	0.261	0.332
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	Battery3	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	0.19	0.251	0.320
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	-0.02	0.321	0.409
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	-0.02	0.315	0.401
	LTE Band 25_Ant 2	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26140	1860	24.15	25.20	1.274	-0.18	0.290	0.369
	LTE Band 25_Ant 4	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	26590	1905	21.73	23.00	1.340	-0.15	0.059	0.079
	LTE Band 25_Ant 4	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	26590	1905	20.85	22.00	1.303	-0.01	0.037	0.048
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	26590	1905	21.73	23.00	1.340	-0.04	0.212	0.284
	LTE Band 25_Ant 4	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	26590	1905	20.85	22.00	1.303	0.07	0.140	0.182
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	26140	1860	21.39	23.00	1.449	0.06	0.246	0.356
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	26340	1880	21.55	23.00	1.396	-0.17	0.234	0.327
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	26140	1860	21.39	23.00	1.449	0.15	0.222	0.322
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	26140	1860	21.39	23.00	1.449	0.18	0.218	0.316
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	26140	1860	21.39	23.00	1.449	0.09	0.657	0.952
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	26140	1860	21.39	23.00	1.449	0.15	0.686	0.994
72	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	26140	1860	21.39	23.00	1.449	-0.17	0.701	1.016
	LTE Band 25_Ant 4	20M	QPSK	50	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	26140	1860	20.47	22.00	1.422	0.03	0.589	0.838
	LTE Band 25_Ant 4	20M	QPSK	100	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	26140	1860	20.53	22.00	1.403	0.14	0.593	0.832
	LTE Band 25_Ant 4	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	26590	1905	21.73	22.60	1.222	-0.15	0.059	0.072
	LTE Band 25_Ant 4	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	26590	1905	20.85	21.60	1.189	-0.01	0.037	0.044
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	26590	1905	21.73	22.60	1.222	-0.04	0.212	0.259
	LTE Band 25_Ant 4	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	26590	1905	20.85	21.60	1.189	0.07	0.140	0.166
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	26140	1860	21.39	22.60	1.321	0.06	0.246	0.325
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	26340	1880	21.55	22.60	1.274	-0.17	0.234	0.298
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	26140	1860	21.39	22.60	1.321	0.15	0.222	0.293
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	26140	1860	21.39	22.60	1.321	0.18	0.218	0.288
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	26140	1860	21.39	22.60	1.321	0.09	0.657	0.868
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	26140	1860	21.39	22.60	1.321	0.15	0.686	0.906
	LTE Band 25_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	26140	1860	21.39	22.60	1.321	-0.17	0.701	0.926
	LTE Band 25_Ant 4	20M	QPSK	50	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	26140	1860	20.47	21.60	1.297	0.03	0.589	0.764
	LTE Band 25_Ant 4	20M	QPSK	100	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	26140	1860	20.53	21.60	1.279	0.14	0.593	0.759
	LTE Band 26_Ant 4	15M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	0.17	0.204	0.284
	LTE Band 26_Ant 4	15M	QPSK	36	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26865	831.5	22.90	24.20	1.349	0.19	0.170	0.229
	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	0.11	0.315	0.438
	LTE Band 26_Ant 4	15M	QPSK	36	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	26865	831.5	22.90	24.20	1.349	-0.06	0.266	0.359
	LTE Band 5B_Ant 4	10M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	20475	831.5	24.98	25.20	1.052	0.12	0.310	0.326
	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	0.04	0.289	0.402
	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	-0.09	0.271	0.377
	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	-0.07	0.526	0.731
	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	0.07	0.601	0.835
73	LTE Band 26_Ant 4	15M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26865	831.5	23.77	25.20	1.390	-0.08	0.615	0.855
	LTE Band 26_Ant 4	15M	QPSK	36	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26865	831.5	22.90	24.20	1.349	0.07	0.512	0.691
	LTE Band 26_Ant 4	15M	QPSK	75	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	26865	831.5	22.90	24.20	1.349	0.11	0.529	0.714



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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_Ant 2	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	132322	1745	24.73	25.20	1.114	0.14	0.068	0.076
	LTE Band 66_Ant 2	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	132322	1745	22.80	24.20	1.380	0	0.045	0.062
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	132322	1745	24.73	25.20	1.114	0.08	0.227	0.253
	LTE Band 66_Ant 2	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	132322	1745	22.80	24.20	1.380	0.18	0.131	0.181
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	-0.05	0.255	0.285
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	132572	1770	24.71	25.20	1.119	-0.09	0.206	0.231
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	-0.01	0.210	0.235
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	-0.03	0.204	0.228
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	0.05	0.287	0.321
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	0.02	0.292	0.326
	LTE Band 66_Ant 2	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	132072	1720	24.72	25.20	1.117	-0.15	0.356	0.398
	LTE Band 66_Ant 4	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132572	1770	24.22	24.70	1.117	-0.19	0.190	0.212
	LTE Band 66_Ant 4	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132572	1770	22.30	23.70	1.380	-0.1	0.122	0.168
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132572	1770	24.22	24.70	1.117	-0.05	0.318	0.355
	LTE Band 66_Ant 4	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132572	1770	22.30	23.70	1.380	-0.06	0.215	0.297
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132072	1720	24.14	24.70	1.138	-0.05	0.360	0.410
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132322	1745	24.15	24.70	1.135	-0.13	0.323	0.367
	LTE Band 66B_Ant 4	15M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132597	1772.5	24.58	24.70	1.028	-0.12	0.310	0.319
	LTE Band 66C_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	132572	1770	24.07	24.70	1.156	0.06	0.295	0.341
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	132072	1720	24.14	24.70	1.138	0.17	0.335	0.381
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	132072	1720	24.14	24.70	1.138	0.03	0.328	0.373
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	132072	1720	24.14	24.70	1.138	0.06	0.578	0.658
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	132072	1720	24.14	24.70	1.138	-0.1	0.641	0.729
74	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	132072	1720	24.14	24.70	1.138	0.05	0.831	0.945
	LTE Band 66_Ant 4	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132572	1770	24.22	24.60	1.091	-0.19	0.190	0.207
	LTE Band 66_Ant 4	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132572	1770	22.30	23.70	1.380	-0.1	0.122	0.168
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132572	1770	24.22	24.60	1.091	-0.05	0.318	0.347
	LTE Band 66_Ant 4	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132572	1770	22.30	23.70	1.380	-0.06	0.215	0.297
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132072	1720	24.14	24.60	1.112	-0.05	0.360	0.400
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132322	1745	24.15	24.60	1.109	-0.13	0.323	0.358
	LTE Band 66B_Ant 4	15M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132597	1772.5	24.58	24.60	1.005	-0.12	0.310	0.311
	LTE Band 66C_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	132572	1770	24.07	24.60	1.130	0.06	0.295	0.333
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	132072	1720	24.14	24.60	1.112	0.17	0.335	0.372
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	132072	1720	24.14	24.60	1.112	0.03	0.328	0.365
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	132072	1720	24.14	24.60	1.112	0.06	0.578	0.643
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	132072	1720	24.14	24.60	1.112	-0.1	0.641	0.713
	LTE Band 66_Ant 4	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	132072	1720	24.14	24.60	1.112	0.05	0.831	0.924
	LTE Band 71_Ant 0	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.08	0.241	0.332
	LTE Band 71_Ant 0	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	133297	680.5	22.43	23.70	1.340	-0.08	0.194	0.260
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.13	0.253	0.348
	LTE Band 71_Ant 0	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	133297	680.5	22.43	23.70	1.340	-0.03	0.200	0.268
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.15	0.232	0.320
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.07	0.218	0.300
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.19	0.291	0.401
75	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.1	0.311	0.428
	LTE Band 71_Ant 0	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	133297	680.5	23.31	24.70	1.377	-0.16	0.242	0.333



FCC SAR TEST REPORT

Report No. : FA271554A

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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_Ant 6	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	-0.08	0.083	0.121
	LTE Band 41_Ant 6	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41055	2636.5	22.47	24.00	1.422	62.9	1.006	0.09	0.069	0.099
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	-0.01	0.289	0.421
	LTE Band 41_Ant 6	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41055	2636.5	22.47	24.00	1.422	62.9	1.006	0.02	0.252	0.361
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	39750	2506	23.11	25.00	1.545	62.9	1.006	-0.19	0.355	0.552
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	-0.12	0.375	0.572
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	40620	2593	23.14	25.00	1.535	62.9	1.006	0.05	0.308	0.475
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41490	2680	23.32	25.00	1.472	62.9	1.006	0.17	0.286	0.424
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41490	2680	24.88	25.00	1.028	62.9	1.006	0.07	0.412	0.426
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41055	2636.5	25.26	27.00	1.493	42.9	1.009	0.08	0.371	0.559
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	41490	2680	26.60	27.00	1.096	42.9	1.009	0.12	0.355	0.393
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	0.05	0.341	0.520
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	0.12	0.327	0.499
76	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	0.14	0.429	0.655
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	0.12	0.371	0.566
	LTE Band 41_Ant 6	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	0.01	0.367	0.560
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	41055	2636.5	25.26	27.00	1.493	42.9	1.009	0.14	0.432	0.651
	LTE Band 48_Ant 12	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	56640	3690	18.98	20.00	1.265	62.9	1.006	0.12	0.109	0.139
	LTE Band 48_Ant 12	20M	QPSK	50	24	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.01	0.122	0.156
	LTE Band 48_Ant 12	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	56640	3690	18.98	20.00	1.265	62.9	1.006	0.07	0.459	0.584
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	-0.12	0.483	0.616
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	55340	3560	18.73	20.00	1.340	62.9	1.006	0.15	0.397	0.535
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	55830	3609	18.81	20.00	1.315	62.9	1.006	0.08	0.430	0.569
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	56150	3641	18.89	20.00	1.291	62.9	1.006	0.09	0.446	0.579
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	-0.18	0.445	0.567
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.06	0.426	0.543
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.08	0.840	1.071
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	-0.18	0.727	0.927
77	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	-0.13	0.922	1.176
	LTE Band 48_Ant 12	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	56640	3690	18.88	19.20	1.076	62.9	1.006	0.12	0.109	0.118
	LTE Band 48_Ant 12	20M	QPSK	50	24	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.01	0.122	0.132
	LTE Band 48_Ant 12	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	56640	3690	18.88	19.20	1.076	62.9	1.006	0.07	0.459	0.497
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	-0.12	0.483	0.524
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	55340	3560	18.63	19.20	1.140	62.9	1.006	0.15	0.397	0.455
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	55830	3609	18.71	19.20	1.119	62.9	1.006	0.08	0.430	0.484
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	56150	3641	18.79	19.20	1.099	62.9	1.006	0.09	0.446	0.493
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	-0.18	0.445	0.483
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.06	0.426	0.462
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.08	0.840	0.912
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	-0.18	0.727	0.789
	LTE Band 48_Ant 12	20M	QPSK	50	24	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	-0.13	0.922	1.001
	LTE Band 48_Ant 11	20M	QPSK	1	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	55830	3609	20.97	22.00	1.268	62.9	1.006	0.18	0.088	0.112
	LTE Band 48_Ant 11	20M	QPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	55830	3609	20.22	21.00	1.197	62.9	1.006	0.18	0.067	0.081
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	55830	3609	20.97	22.00	1.268	62.9	1.006	-0.12	0.189	0.241
	LTE Band 48_Ant 11	20M	QPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	55830	3609	20.22	21.00	1.197	62.9	1.006	0.06	0.156	0.188
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	55340	3560	20.92	22.00	1.282	62.9	1.006	-0.15	0.207	0.267
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	56150	3641	20.96	22.00	1.271	62.9	1.006	-0.07	0.173	0.221
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.11	0.214	0.286
	LTE Band 48C_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	55830	3609	21.80	22.00	1.047	62.9	1.006	0.15	0.206	0.217
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.06	0.186	0.249
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.1	0.191	0.256
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.17	0.245	0.328
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.14	0.231	0.309
	LTE Band 48_Ant 11	20M	QPSK	1	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	56640	3690	20.76	22.00	1.330	62.9	1.006	-0.08	0.211	0.282



<5G NR SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n7_Ant 6	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	512000	2560	23.87	24.00	1.030	0.1	0.104	0.107
	FR1 n7_Ant 6	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	512000	2560	23.52	24.00	1.117	0.07	0.089	0.099
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	512000	2560	23.87	24.00	1.030	0.07	0.447	0.461
	FR1 n7_Ant 6	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	512000	2560	23.52	24.00	1.117	-0.1	0.402	0.449
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	502000	2510	23.68	24.00	1.076	0.08	0.446	0.480
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	507000	2535	23.70	24.00	1.072	0.06	0.440	0.471
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	502000	2510	23.68	24.00	1.076	0.15	0.396	0.426
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	502000	2510	23.68	24.00	1.076	-0.08	0.374	0.403
78	FR1 n7_Ant 6	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	502000	2510	23.68	24.00	1.076	-0.15	0.500	0.538
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	502000	2510	23.68	24.00	1.076	-0.1	0.346	0.372
	FR1 n7_Ant 6	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	502000	2510	23.68	24.00	1.076	0.04	0.362	0.390
	FR1 n12_Ant 0	15M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	0.08	0.090	0.109
	FR1 n12_Ant 0	15M	BPSK	36	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.03	0.194	0.221
	FR1 n12_Ant 0	15M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	141500	707.5	23.88	24.70	1.208	-0.08	0.155	0.187
	FR1 n12_Ant 0	15M	BPSK	36	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.04	0.216	0.246
	FR1 n12_Ant 0	15M	BPSK	36	0	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	0.07	0.183	0.209
	FR1 n12_Ant 0	15M	BPSK	36	0	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	0.12	0.181	0.206
	FR1 n12_Ant 0	15M	BPSK	36	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.18	0.256	0.292
79	FR1 n12_Ant 0	15M	BPSK	36	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	0.02	0.294	0.335
	FR1 n12_Ant 0	15M	BPSK	36	0	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	141500	707.5	23.63	24.20	1.140	-0.02	0.252	0.287
	FR1 n13_Ant 0	10M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.16	0.211	0.278
	FR1 n13_Ant 0	10M	BPSK	25	27	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	156400	782	23.18	24.00	1.208	0.18	0.258	0.312
	FR1 n13_Ant 0	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.15	0.269	0.355
	FR1 n13_Ant 0	10M	BPSK	25	27	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	156400	782	23.18	24.00	1.208	0.07	0.245	0.296
	FR1 n13_Ant 0	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.05	0.222	0.293
	FR1 n13_Ant 0	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	-0.13	0.219	0.289
	FR1 n13_Ant 0	10M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.19	0.415	0.547
	FR1 n13_Ant 0	10M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	-0.14	0.477	0.629
80	FR1 n13_Ant 0	10M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	156400	782	23.30	24.50	1.318	0.04	0.568	0.749
	FR1 n14_Ant 0	10M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	158600	793	24.36	24.70	1.081	-0.01	0.251	0.271
	FR1 n14_Ant 0	10M	BPSK	25	14	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.07	0.250	0.276
	FR1 n14_Ant 0	10M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	158600	793	24.36	24.70	1.081	-0.14	0.273	0.295
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	0.05	0.295	0.326
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	0.12	0.263	0.290
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.08	0.251	0.277
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	0.17	0.364	0.402
	FR1 n14_Ant 0	10M	BPSK	25	14	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	0.08	0.509	0.562
81	FR1 n14_Ant 0	10M	BPSK	25	14	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	158600	793	24.27	24.70	1.104	-0.05	0.582	0.643



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n25_Ant 2	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	376500	1882.5	24.92	25.20	1.067	0.15	0.206	0.220
	FR1 n25_Ant 2	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	376500	1882.5	24.73	25.20	1.114	-0.18	0.203	0.226
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	376500	1882.5	24.92	25.20	1.067	-0.05	0.334	0.356
	FR1 n25_Ant 2	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	376500	1882.5	24.73	25.20	1.114	-0.12	0.307	0.342
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	372000	1860	24.86	25.20	1.081	-0.09	0.321	0.347
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	-0.08	0.342	0.379
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	0.12	0.312	0.346
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	0.07	0.298	0.331
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	-0.08	0.354	0.393
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	-0.04	0.316	0.350
	FR1 n25_Ant 2	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	381000	1905	24.75	25.20	1.109	-0.16	0.369	0.409
	FR1 n25_Ant 4	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	381000	1905	22.36	23.60	1.330	0.16	0.106	0.141
	FR1 n25_Ant 4	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	381000	1905	22.32	23.60	1.343	0.04	0.068	0.091
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	381000	1905	22.36	23.60	1.330	0.14	0.381	0.507
	FR1 n25_Ant 4	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	381000	1905	22.32	23.60	1.343	0.09	0.372	0.500
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	0.14	0.389	0.524
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	376500	1882.5	22.35	23.60	1.334	0.04	0.244	0.325
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	0.07	0.352	0.474
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	0.15	0.312	0.420
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	-0.15	0.500	0.673
82	FR1 n25_Ant 4	20M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	-0.14	0.877	1.180
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	-0.19	0.677	0.911
	FR1 n25_Ant 4	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	381000	1905	22.36	22.70	1.081	0.16	0.106	0.115
	FR1 n25_Ant 4	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	381000	1905	22.32	22.70	1.091	0.04	0.068	0.074
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	381000	1905	22.36	22.70	1.081	0.14	0.381	0.412
	FR1 n25_Ant 4	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	381000	1905	22.32	22.70	1.091	0.09	0.372	0.406
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	372000	1860	22.31	22.70	1.094	0.14	0.389	0.426
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	376500	1882.5	22.35	22.70	1.084	0.04	0.244	0.264
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	372000	1860	22.31	22.70	1.094	0.07	0.352	0.385
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	372000	1860	22.31	22.70	1.094	0.15	0.312	0.341
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	372000	1860	22.31	22.70	1.094	-0.15	0.500	0.547
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	372000	1860	22.31	22.70	1.094	-0.14	0.877	0.959
	FR1 n25_Ant 4	20M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	372000	1860	22.31	22.70	1.094	-0.19	0.677	0.741
	FR1 n26_Ant 4	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	166300	831.5	24.80	25.20	1.096	-0.07	0.307	0.337
	FR1 n26_Ant 4	20M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	-0.15	0.313	0.351
	FR1 n26_Ant 4	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	166300	831.5	24.80	25.20	1.096	0.14	0.316	0.346
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	-0.08	0.322	0.361
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	-0.13	0.316	0.355
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	0.14	0.306	0.343
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	-0.09	0.485	0.544
	FR1 n26_Ant 4	20M	BPSK	50	28	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	-0.04	0.481	0.540
83	FR1 n26_Ant 4	20M	BPSK	50	28	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	166300	831.5	24.70	25.20	1.122	-0.01	0.548	0.615



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n66_Ant 2	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.07	0.072	0.077
	FR1 n66_Ant 2	40M	BPSK	108	54	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	0.14	0.075	0.082
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.15	0.238	0.253
	FR1 n66_Ant 2	40M	BPSK	108	54	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.79	25.20	1.099	-0.02	0.204	0.224
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	-0.13	0.216	0.230
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.14	0.221	0.235
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	-0.09	0.365	0.388
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	0.08	0.301	0.320
	FR1 n66_Ant 2	40M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	349000	1745	24.93	25.20	1.064	-0.15	0.349	0.371
	FR1 n66_Ant 4	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.15	0.112	0.123
	FR1 n66_Ant 4	40M	BPSK	108	54	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.53	25.20	1.167	-0.01	0.108	0.126
	FR1 n66_Ant 4	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.02	0.186	0.205
	FR1 n66_Ant 4	40M	BPSK	108	54	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	349000	1745	24.53	25.20	1.167	0.06	0.173	0.202
	FR1 n66_Ant 4	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.12	0.173	0.191
	FR1 n66_Ant 4	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.15	0.181	0.199
84	FR1 n66_Ant 4	40M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.07	0.579	0.638
	FR1 n66_Ant 4	40M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	0.17	0.293	0.323
	FR1 n66_Ant 4	40M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	349000	1745	24.78	25.20	1.102	-0.14	0.533	0.587
	FR1 n71_Ant 0	20M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.01	0.162	0.199
	FR1 n71_Ant 0	20M	BPSK	50	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	136100	680.5	23.60	24.20	1.148	0.01	0.153	0.176
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.18	0.203	0.250
	FR1 n71_Ant 0	20M	BPSK	50	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	136100	680.5	23.60	24.20	1.148	0.04	0.158	0.181
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.06	0.198	0.244
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.12	0.188	0.231
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	0.15	0.174	0.214
85	FR1 n71_Ant 0	20M	BPSK	1	1	Back	15mm	Sample 2	Battery 1	-	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.08	0.244	0.300
	FR1 n71_Ant 0	20M	BPSK	1	1	Back	15mm	Sample 3	Battery 1	-	WLAN ON/OFF	DSI 0	136100	680.5	23.80	24.70	1.230	-0.16	0.201	0.247



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	518598	2592.99	26.43	27.00	1.140	-0.18	0.155	0.177
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.1	0.191	0.228
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	518598	2592.99	26.43	27.00	1.140	0.01	0.586	0.668
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.04	0.562	0.669
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.06	0.521	0.621
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.01	0.498	0.593
86	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.16	0.930	1.108
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	26.43	27.00	1.140	0.06	0.901	1.027
	FR1 n41_HPUE_Ant 6	100M	BPSK	270	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	25.75	26.50	1.189	0.13	0.815	0.969
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.05	0.921	1.097
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.16	0.916	1.091
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	518598	2592.99	26.43	26.50	1.016	-0.18	0.155	0.158
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	-0.1	0.191	0.203
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	518598	2592.99	26.43	26.50	1.016	0.01	0.586	0.596
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.04	0.562	0.597
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.06	0.521	0.553
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.01	0.498	0.529
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	-0.16	0.930	0.987
	FR1 n41_HPUE_Ant 6	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	518598	2592.99	26.43	26.50	1.016	0.06	0.901	0.916
	FR1 n41_HPUE_Ant 6	100M	BPSK	270	0	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	518598	2592.99	25.75	26.50	1.189	0.13	0.815	0.969
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.05	0.921	0.978
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.16	0.916	0.973
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.17	0.127	0.165
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	0.18	0.201	0.261
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	0.12	0.198	0.257
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	0.06	0.188	0.244
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.02	0.242	0.314
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	-0.16	0.340	0.441
	FR1 n41_HPUE_Ant 12	100M	CW	-	-	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	518598	2592.99	25.87	27.00	1.297	0.1	0.199	0.258
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.18	0.531	0.631
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.08	0.421	0.500
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	0.13	0.501	0.595
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	0.11	0.512	0.609
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.19	0.329	0.391
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	15mm	Sample 2	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	0.06	0.467	0.555
	FR1 n41_HPUE_Ant 1	100M	CW	-	-	Front	15mm	Sample 3	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.25	27.00	1.189	-0.15	0.631	0.750
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.17	0.186	0.208
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.19	0.168	0.188
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	-0.12	0.172	0.193
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.11	0.170	0.190
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	-0.09	0.159	0.178
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	15mm	Sample 2	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	-0.01	0.160	0.179
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Front	15mm	Sample 3	Battery 1	-	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	-0.19	0.265	0.297



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n48_Ant 12	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	21.24	22.00	1.191	0.14	0.092	0.110
	FR1 n48_Ant 12	40M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	21.07	22.00	1.239	-0.08	0.102	0.126
	FR1 n48_Ant 12	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	21.24	22.00	1.191	-0.12	0.386	0.460
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	21.07	22.00	1.239	0.01	0.408	0.505
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	638000	3570	21.05	22.00	1.245	-0.13	0.424	0.528
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.07	0.445	0.554
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.11	0.421	0.524
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.12	0.406	0.505
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.1	0.721	0.897
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.07	0.784	0.976
87	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.15	0.839	1.044
	FR1 n48_Ant 12	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	21.24	21.70	1.112	0.14	0.092	0.102
	FR1 n48_Ant 12	40M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	21.07	21.70	1.156	-0.08	0.102	0.118
	FR1 n48_Ant 12	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	21.24	21.70	1.112	-0.12	0.386	0.429
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	21.07	21.70	1.156	0.01	0.408	0.472
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	638000	3570	21.05	21.70	1.161	-0.13	0.424	0.492
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.07	0.445	0.517
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.11	0.421	0.489
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.12	0.406	0.472
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.1	0.721	0.837
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.07	0.784	0.911
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.15	0.839	0.974
	FR1 n48_Ant 11	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	21.07	21.80	1.183	-0.11	0.133	0.157
	FR1 n48_Ant 11	40M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	-0.05	0.153	0.189
	FR1 n48_Ant 11	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	21.07	21.80	1.183	-0.11	0.341	0.403
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	-0.14	0.395	0.488
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	638000	3570	20.87	21.80	1.239	-0.03	0.295	0.365
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	645332	3679.98	20.86	21.80	1.242	0.12	0.376	0.467
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	-0.13	0.316	0.391
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	0.01	0.355	0.439
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	0.15	0.329	0.407
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 2	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	-0.14	0.330	0.408
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 3	Battery 1	-	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	0.11	0.367	0.454
	FR1 n48_Ant 11	40M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	21.07	21.30	1.054	-0.11	0.133	0.140
	FR1 n48_Ant 11	40M	BPSK	50	28	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	-0.05	0.153	0.169
	FR1 n48_Ant 11	40M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	21.07	21.30	1.054	-0.11	0.341	0.360
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	-0.14	0.395	0.435
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	638000	3570	20.87	21.30	1.104	-0.03	0.295	0.326
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	645332	3679.98	20.86	21.30	1.107	0.12	0.376	0.416
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	-0.13	0.316	0.348
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	0.01	0.355	0.391
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	0.15	0.329	0.362
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 2	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	-0.14	0.330	0.364
	FR1 n48_Ant 11	40M	BPSK	50	28	Back	15mm	Sample 3	Battery 1	-	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	0.11	0.367	0.404



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	0.17	0.086	0.109
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	0.02	0.081	0.105
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	-0.11	0.263	0.334
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	-0.19	0.262	0.340
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	-0.12	0.242	0.314
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	0.06	0.255	0.331
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	-0.15	0.496	0.643
88	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	-0.1	0.766	0.994
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	0.06	0.769	0.977
	FR1 n77_HPUE_Ant 12	100M	BPSK	270	0	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	656000	3840	17.79	19.00	1.321	0.08	0.740	0.978
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	69	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	656000	3840	17.87	19.00	1.297	0.09	0.566	0.734
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	-0.15	0.036	0.048
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	633332	3499.98	17.74	19.00	1.337	0.07	0.038	0.051
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	-0.12	0.210	0.279
	FR1 n77_HPUE_Ant 12	100M	BPSK	135	0	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 1	633332	3499.98	17.74	19.00	1.337	0.17	0.189	0.253
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	-0.11	0.199	0.264
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.01	0.201	0.267
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.06	0.303	0.402
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.02	0.374	0.496
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.08	0.279	0.370



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	-0.04	0.249	0.281
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	0.18	0.263	0.304
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	0	0.449	0.506
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	-0.16	0.505	0.583
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	0.12	0.455	0.525
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	0.08	0.462	0.533
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	-0.06	0.488	0.562
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 2	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	0.13	0.598	0.690
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 3	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.08	20.70	1.153	0.1	0.488	0.562
	FR1 n77_HPUE_Ant 11	100M	BPSK	270	0	Back	15mm	Sample 2	Battery 1	-	WLAN OFF	DSI 1	656000	3840	20.01	20.70	1.172	0.07	0.426	0.499
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	-0.04	0.249	0.251
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	0.18	0.263	0.271
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	0	0.449	0.451
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	-0.16	0.505	0.520
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	0.12	0.455	0.468
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	0.08	0.462	0.475
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	-0.06	0.488	0.501
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 2	Battery 1	-	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	0.13	0.598	0.615
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 3	Battery 1	-	WLAN ON	DSI 1	656000	3840	20.08	20.20	1.028	0.1	0.488	0.501
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	-0.04	0.172	0.198
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	19.99	20.70	1.178	0.07	0.163	0.192
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	-0.18	0.397	0.456
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	19.99	20.70	1.178	-0.03	0.373	0.439
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.01	0.388	0.447
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.16	0.375	0.432
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.13	0.387	0.445
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 2	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	-0.19	0.446	0.514
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 3	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	-0.07	0.324	0.373
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	-0.04	0.172	0.177
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	19.99	20.20	1.050	0.07	0.163	0.171
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	-0.18	0.397	0.407
	FR1 n77_HPUE_Ant 11	100M	BPSK	135	69	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	19.99	20.20	1.050	-0.03	0.373	0.391
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.01	0.388	0.398
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.16	0.375	0.385
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.13	0.387	0.397
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 2	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	-0.19	0.446	0.458
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Back	15mm	Sample 3	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	-0.07	0.324	0.332



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	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)
	FR1 n77_Ant 5	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	-0.16	0.521	0.690
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	-0.19	0.601	0.796
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 2	Battery 2	-	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	0.11	0.566	0.750
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 3	Battery 3	-	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	0.06	0.542	0.718
	FR1 n77_Ant 5	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	0.15	0.510	0.676
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 2	Battery 1	-	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	-0.17	0.576	0.762
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 3	Battery 1	-	WLAN OFF	DSI 1	656000	3840	23.78	25.00	1.324	-0.19	0.549	0.727
	FR1 n77_Ant 5	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	-0.16	0.521	0.615
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	-0.19	0.601	0.709
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 2	Battery 2	-	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	0.11	0.566	0.668
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 3	Battery 3	-	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	0.06	0.542	0.640
	FR1 n77_Ant 5	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	0.15	0.510	0.602
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 2	Battery 1	-	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	-0.17	0.576	0.679
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 3	Battery 1	-	WLAN ON	DSI 1	656000	3840	23.78	24.50	1.180	-0.19	0.549	0.648
	FR1 n77_Ant 5	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	0.01	0.264	0.348
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	-0.02	0.282	0.371
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 2	-	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	0.06	0.255	0.335
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 3	-	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	0.13	0.245	0.322
	FR1 n77_Ant 5	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	-0.15	0.220	0.289
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 2	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	0.05	0.189	0.248
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 3	Battery 1	-	WLAN OFF	DSI 1	633332	3499.98	23.81	25.00	1.315	0.19	0.257	0.338
	FR1 n77_Ant 5	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	0.01	0.264	0.310
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	-0.02	0.282	0.331
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 2	-	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	0.06	0.255	0.299
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 1	Battery 3	-	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	0.13	0.245	0.287
	FR1 n77_Ant 5	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	-0.15	0.220	0.258
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 2	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	0.05	0.189	0.221
	FR1 n77_Ant 5	100M	CW	-	-	Back	15mm	Sample 3	Battery 1	-	WLAN ON	DSI 1	633332	3499.98	23.81	24.50	1.172	0.19	0.257	0.301
	FR1 n77_Ant 3	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	0.01	0.060	0.078
	FR1 n77_Ant 3	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	-0.01	0.197	0.257
	FR1 n77_Ant 3	100M	CW	-	-	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	0.11	0.192	0.250
	FR1 n77_Ant 3	100M	CW	-	-	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	0.16	0.180	0.235
	FR1 n77_Ant 3	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	-0.17	0.228	0.297
	FR1 n77_Ant 3	100M	CW	-	-	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	0.14	0.199	0.259
	FR1 n77_Ant 3	100M	CW	-	-	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	656000	3840	21.85	23.00	1.303	-0.12	0.197	0.257
	FR1 n77_Ant 3	100M	CW	-	-	Front	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	-0.02	0.026	0.033
	FR1 n77_Ant 3	100M	CW	-	-	Back	15mm	Sample 1	Battery 1	-	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	0.13	0.059	0.074
	FR1 n77_Ant 3	100M	CW	-	-	Back	15mm	Sample 1	Battery 2	-	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	0.06	0.052	0.065
	FR1 n77_Ant 3	100M	CW	-	-	Back	15mm	Sample 1	Battery 3	-	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	0.09	0.051	0.064
	FR1 n77_Ant 3	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	0.19	0.062	0.078
	FR1 n77_Ant 3	100M	CW	-	-	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	-0.13	0.061	0.077
	FR1 n77_Ant 3	100M	CW	-	-	Back	0mm	Sample 3	Battery 1	Soft Holster	WLAN ON/OFF	DSI 0	633332	3499.98	22.01	23.00	1.256	0.08	0.053	0.067



FCC SAR TEST REPORT

Report No. : FA271554A

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	Antenna	Output Power State	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	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	0.1	0.128	0.143
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	1	2412	20.20	20.50	1.072	95.9	1.043	-0.03	0.308	0.344
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	6	2437	19.90	20.50	1.148	95.9	1.043	-0.03	0.291	0.348
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.05	0.302	0.353
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	0.14	0.283	0.331
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.07	0.269	0.315
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.19	0.236	0.276
89	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.13	0.378	0.442
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	non-DBS	11	2462	20.00	20.50	1.122	95.9	1.043	-0.18	0.308	0.360
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	0.07	0.075	0.090
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	1	2412	19.40	20.00	1.148	95.9	1.043	0.02	0.182	0.218
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	6	2437	18.90	20.00	1.288	95.9	1.043	0.04	0.173	0.232
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	0.11	0.176	0.236
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	-0.01	0.159	0.214
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	0.18	0.144	0.193
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	0.08	0.139	0.187
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	-0.03	0.223	0.300
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	DBS	11	2462	18.90	20.00	1.288	95.9	1.043	-0.03	0.182	0.245
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Sample 1	Battery 1	-	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.07	0.112	0.122
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	-0.04	0.144	0.157
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 8	non-DBS	6	2437	20.60	21.00	1.096	95.9	1.043	-0.15	0.127	0.145
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 8	non-DBS	11	2462	20.50	21.00	1.122	95.9	1.043	0.11	0.124	0.145
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 2	-	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.05	0.135	0.147
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 3	-	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.05	0.127	0.139
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.03	0.139	0.152
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 2	Battery 1	-	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	-0.08	0.134	0.146
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 3	Battery 1	-	Ant 8	non-DBS	1	2412	20.80	21.00	1.047	95.9	1.043	0.07	0.143	0.156
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Sample 1	Battery 1	-	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	0.1	0.064	0.067
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.11	0.082	0.086
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 8	DBS	6	2437	19.40	20.00	1.148	95.9	1.043	-0.07	0.069	0.083
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 8	DBS	11	2462	19.40	20.00	1.148	95.9	1.043	0.08	0.071	0.085
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 2	-	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.09	0.074	0.077
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 1	Battery 3	-	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.17	0.072	0.075
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.07	0.079	0.082
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 2	Battery 1	-	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	-0.15	0.076	0.079
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Sample 3	Battery 1	-	Ant 8	DBS	1	2412	20.00	20.00	1.000	95.9	1.043	0.04	0.081	0.084



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	Antenna	Output Power State	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	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.07	0.128	0.147
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.09	0.294	0.338
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	62	5310	15.40	16.50	1.288	100.00	1.000	0.03	0.255	0.329
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.15	0.277	0.318
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.15	0.258	0.296
90	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.02	0.331	0.380
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 2	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.02	0.321	0.369
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 3	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.07	0.326	0.374
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	-0.03	0.091	0.109
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	0.05	0.194	0.233
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.13	0.208	0.256
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	0.07	0.190	0.234
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.02	0.176	0.217
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.1	0.234	0.288
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 2	Battery 1	Soft Holster	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.12	0.227	0.279
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 3	Battery 1	Soft Holster	Ant 9+8(8)	DBS	54	5270	14.10	15.00	1.230	100.00	1.000	-0.03	0.230	0.283
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.03	0.153	0.197
91	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.13	0.260	0.335
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	102	5510	13.60	14.50	1.230	100.00	1.000	0.12	0.155	0.191
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	126	5630	15.10	16.50	1.380	100.00	1.000	0.06	0.235	0.324
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	134	5670	13.80	14.50	1.175	100.00	1.000	-0.01	0.163	0.192
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	142	5710	15.40	16.50	1.288	100.00	1.000	-0.07	0.248	0.319
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.08	0.251	0.323
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.15	0.244	0.314
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	0.03	0.200	0.258
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.16	0.223	0.287
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.01	0.233	0.300
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.02	0.060	0.076
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.02	0.102	0.128
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.16	0.090	0.113
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.08	0.083	0.104
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.17	0.079	0.099
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.02	0.087	0.110
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0	0.091	0.115
	WLAN5GHz	802.11a 6Mbps	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	0.01	0.091	0.104
92	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.05	0.281	0.323
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	149	5745	16.60	17.50	1.230	100.00	1.000	0.03	0.259	0.319
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS	165	5825	16.60	17.50	1.230	100.00	1.000	0.14	0.247	0.304
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.11	0.269	0.309
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.03	0.263	0.302
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	-0.15	0.184	0.211
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	0.04	0.229	0.263
	WLAN5GHz	802.11a 6Mbps	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	non-DBS	157	5785	16.90	17.50	1.148	100.00	1.000	0.11	0.278	0.319
	WLAN5GHz	802.11n-HT40 MCS0	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.1	0.063	0.078
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	0.04	0.195	0.240
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	DBS	159	5795	14.60	15.50	1.230	100.00	1.000	-0.17	0.173	0.213
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	0.14	0.177	0.218
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.02	0.165	0.203
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	0.01	0.127	0.156
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.04	0.159	0.196
	WLAN5GHz	802.11n-HT40 MCS0	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	DBS	151	5755	14.60	15.50	1.230	100.00	1.000	-0.12	0.193	0.237



Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	Antenna	Output Power State	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)	Measured APD (W/m^2)
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	111	6505	14.20	14.50	1.072	98.2	1.018	0.11	0.028	0.031	0.300
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	111	6505	14.20	14.50	1.072	98.2	1.018	0.03	0.115	0.125	1.150
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	15	6025	12.40	13.50	1.288	98.2	1.018	-0.13	0.125	0.164	1.280
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	47	6185	12.00	13.50	1.413	98.2	1.018	-0.07	0.093	0.134	0.930
93	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	0.14	0.165	0.197	1.550
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	207	6985	13.90	14.00	1.023	98.2	1.018	0.15	0.134	0.140	1.320
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 2	-	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	0.05	0.148	0.177	1.430
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 1	Battery 3	-	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	-0.06	0.144	0.172	1.380
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	-0.12	0.096	0.115	0.960
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 2	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	-0.08	0.120	0.144	1.180
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	15mm	Sample 3	Battery 1	-	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	-0.12	0.115	0.138	1.150

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	Antenna	Output Power State	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	15mm	Sample 1	Battery 1	-	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9	non-DBS / DBS	39	2441	4.25	4.50	1.059	76.83	1.084	0	< 0.001	< 0.001
94	Bluetooth	1Mbps	Back	15mm	Sample 1	Battery 1	-	Ant 9	non-DBS / DBS	78	2480	3.51	4.50	1.256	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	15mm	Sample 1	Battery 2	-	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	15mm	Sample 1	Battery 3	-	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	0mm	Sample 1	Battery 1	Soft Holster	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	15mm	Sample 2	Battery 1	-	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001
	Bluetooth	1Mbps	Back	15mm	Sample 3	Battery 1	-	Ant 9	non-DBS / DBS	0	2402	4.49	4.50	1.002	76.83	1.084	0	< 0.001	< 0.001

**15.4 Product Specific SAR****<TDD LTE SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
95	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	0.18	1.000	1.457
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	39750	2506	23.11	25.00	1.545	62.9	1.006	-0.19	0.870	1.352
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	0.02	0.930	1.355
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	40185	2549.5	23.19	25.00	1.517	62.9	1.006	0.05	0.942	1.438
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	41490	2680	23.32	25.00	1.472	62.9	1.006	0.17	0.960	1.422
	LTE Band 41C_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	41490	2680	24.88	25.00	1.028	62.9	1.006	0.07	0.716	0.740
	LTE Band 41_HPUE_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	41055	2636.5	25.26	27.00	1.493	42.9	1.009	0.02	0.963	1.450
	LTE Band 41C_HPUE_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	41490	2680	26.60	27.00	1.096	42.9	1.009	0.12	0.812	0.898
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	0.1	0.832	1.213
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	0.11	0.818	1.192
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	-0.19	0.878	1.280
	LTE Band 41_Ant 6	20M	QPSK	1	0	Left Side	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	41055	2636.5	23.39	25.00	1.449	62.9	1.006	-0.19	0.834	1.216
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.02	1.140	1.454
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	55340	3560	18.73	20.00	1.340	62.9	1.006	0.1	1.050	1.415
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	55830	3609	18.81	20.00	1.315	62.9	1.006	-0.06	1.090	1.442
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	56150	3641	18.89	20.00	1.291	62.9	1.006	0.15	0.907	1.178
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 2	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.14	1.060	1.352
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 3	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.02	1.080	1.377
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.16	1.210	1.543
96	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 3	Battery 1	WLAN OFF	DSI 1	56640	3690	18.97	20.00	1.268	62.9	1.006	0.04	1.250	1.594
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.02	1.140	1.237
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	55340	3560	18.63	19.20	1.140	62.9	1.006	0.1	1.050	1.204
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	55830	3609	18.71	19.20	1.119	62.9	1.006	-0.06	1.090	1.228
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	56150	3641	18.79	19.20	1.099	62.9	1.006	0.15	0.907	1.003
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 2	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.14	1.060	1.151
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 1	Battery 3	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.02	1.080	1.172
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 2	Battery 1	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.16	1.210	1.313
	LTE Band 48_Ant 12	20M	QPSK	50	24	Right Side	0mm	Sample 3	Battery 1	WLAN ON	DSI 1	56640	3690	18.87	19.20	1.079	62.9	1.006	0.04	1.250	1.357

**<5G NR SAR>**

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
97	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.13	2.210	2.633
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 1	Battery 2	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.06	2.060	2.454
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 1	Battery 3	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.1	2.110	2.514
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.07	2.170	2.585
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 3	Battery 1	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.19	2.160	2.573
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	-0.13	2.210	2.346
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 1	Battery 2	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.06	2.060	2.187
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 1	Battery 3	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	0.1	2.110	2.240
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 2	Battery 1	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	-0.07	2.170	2.304
	FR1 n41_HPUE_Ant 6	100M	BPSK	135	69	Left Side	0mm	Sample 3	Battery 1	WLAN ON	DSI 1	518598	2592.99	26.24	26.50	1.062	-0.19	2.160	2.293
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.01	1.350	1.511
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.11	1.330	1.489
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.06	1.250	1.399
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.08	1.420	1.590
	FR1 n41_HPUE_Ant 7	100M	CW	-	-	Left Side	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 0	518598	2592.99	26.51	27.00	1.119	0.13	1.210	1.355
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	641666	3624.99	21.07	22.00	1.239	0.09	1.520	1.883
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	641666	3624.99	21.07	22.00	1.239	0.15	2.150	2.663
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	638000	3570	21.05	22.00	1.245	-0.11	2.000	2.489
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.01	2.260	2.813
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 2	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	0.06	2.120	2.638
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 3	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	0.12	2.040	2.539
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.18	2.350	2.925
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 3	Battery 1	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	0.17	2.320	2.887
	FR1 n48_Ant 12	40M	BPSK	50	28	Back	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	641666	3624.99	21.07	21.70	1.156	0.09	1.520	1.757
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	641666	3624.99	21.07	21.70	1.156	0.15	2.150	2.486
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	638000	3570	21.05	21.70	1.161	-0.11	2.000	2.323
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.01	2.260	2.625
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 2	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	0.06	2.120	2.462
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 1	Battery 3	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	0.12	2.040	2.369
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 2	Battery 1	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	-0.18	2.350	2.729
	FR1 n48_Ant 12	40M	BPSK	50	28	Right Side	0mm	Sample 3	Battery 1	WLAN ON	DSI 1	645332	3679.98	21.05	21.70	1.161	0.17	2.320	2.695
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	641666	3624.99	20.88	21.80	1.236	-0.14	2.300	2.843
98	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	638000	3570	20.87	21.80	1.239	0.14	2.390	2.961
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	645332	3679.98	20.86	21.80	1.242	-0.17	2.290	2.843
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 2	WLAN OFF	DSI 1	638000	3570	20.87	21.80	1.239	0.11	2.210	2.738
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 3	WLAN OFF	DSI 1	638000	3570	20.87	21.80	1.239	0.08	2.090	2.589
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	638000	3570	20.87	21.80	1.239	-0.01	2.330	2.886
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 3	Battery 1	WLAN OFF	DSI 1	638000	3570	20.87	21.80	1.239	0.06	2.210	2.738
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	641666	3624.99	20.88	21.30	1.102	-0.14	2.300	2.534
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	638000	3570	20.87	21.30	1.104	0.14	2.390	2.639
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	645332	3679.98	20.86	21.30	1.107	-0.17	2.290	2.534
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 2	WLAN ON	DSI 1	638000	3570	20.87	21.30	1.104	0.11	2.210	2.440
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 1	Battery 3	WLAN ON	DSI 1	638000	3570	20.87	21.30	1.104	0.08	2.090	2.308
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 2	Battery 1	WLAN ON	DSI 1	638000	3570	20.87	21.30	1.104	-0.01	2.330	2.573
	FR1 n48_Ant 11	40M	BPSK	50	28	Left Side	0mm	Sample 3	Battery 1	WLAN ON	DSI 1	638000	3570	20.87	21.30	1.104	0.06	2.210	2.440



FCC SAR TEST REPORT

Report No. : FA271554A

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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)
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	0.06	1.230	1.563
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	0.12	1.160	1.474
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	-0.13	1.040	1.321
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	17.96	19.00	1.271	0.17	2.020	2.567
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	17.83	19.00	1.309	-0.14	1.360	1.780
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.01	0.754	1.001
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.06	0.732	0.972
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.05	0.711	0.944
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	0.13	0.767	1.018
	FR1 n77_HPUE_Ant 12	100M	BPSK	1	1	Right Side	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	17.77	19.00	1.327	-0.05	0.655	0.869
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	0.06	2.160	2.435
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 2	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	0.07	2.080	2.345
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 3	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	0.18	2.100	2.367
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	-0.12	2.440	2.750
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 3	Battery 1	WLAN OFF	DSI 1	656000	3840	20.18	20.70	1.127	0.17	1.980	2.232
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	0.06	2.160	2.170
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 2	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	0.07	2.080	2.090
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 3	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	0.18	2.100	2.110
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 2	Battery 1	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	-0.12	2.440	2.451
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 3	Battery 1	WLAN ON	DSI 1	656000	3840	20.18	20.20	1.005	0.17	1.980	1.989
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	-0.12	2.240	2.578
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 2	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.04	2.160	2.486
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 3	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.17	2.130	2.451
99	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.15	2.680	3.084
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 3	Battery 1	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.19	1.840	2.117
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 1	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	-0.12	2.240	2.297
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 2	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.04	2.160	2.215
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 1	Battery 3	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.17	2.130	2.185
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 2	Battery 1	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.15	2.680	2.749
	FR1 n77_HPUE_Ant 11	100M	BPSK	1	1	Left Side	0mm	Sample 3	Battery 1	WLAN ON	DSI 1	633332	3499.98	20.09	20.20	1.026	0.19	1.840	1.887
	FR1 n77_Ant 5	100M	CW	-	-	Front	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	0.09	1.160	1.369
	FR1 n77_Ant 5	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	0.01	2.060	2.431
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	-0.16	2.310	2.727
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	-0.14	2.060	2.431
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	0.08	2.240	2.644
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	0.09	2.115	2.496
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 1	656000	3840	23.78	24.50	1.180	0.01	2.007	2.369
	FR1 n77_Ant 5	100M	CW	-	-	Front	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	0.09	0.832	0.975
	FR1 n77_Ant 5	100M	CW	-	-	Back	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	0.01	1.160	1.360
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 1	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	-0.03	1.386	1.625
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 1	Battery 2	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	-0.04	1.250	1.465
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 1	Battery 3	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	0.09	1.160	1.360
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 2	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	-0.04	0.828	0.971
	FR1 n77_Ant 5	100M	CW	-	-	Top Side	0mm	Sample 3	Battery 1	WLAN ON/OFF	DSI 1	633332	3499.98	23.81	24.50	1.172	0.09	0.686	0.804



<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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)
100	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	-0.11	0.348	0.400
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.01	0.540	0.620
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	54	5270	16.30	16.50	1.047	100.00	1.000	-0.08	0.794	0.831
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	62	5310	15.90	16.50	1.148	100.00	1.000	0.07	0.682	0.783
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.05	0.305	0.350
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	54	5270	15.90	16.50	1.148	100.00	1.000	0.09	0.136	0.156
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 2	Ant 9+8(9)	non-DBS	54	5270	16.30	16.50	1.047	100.00	1.000	-0.03	0.717	0.751
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 3	Ant 9+8(9)	non-DBS	54	5270	16.30	16.50	1.047	100.00	1.000	-0.05	0.700	0.733
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 2	Battery 1	Ant 9+8(9)	non-DBS	54	5270	16.30	16.50	1.047	100.00	1.000	-0.04	0.753	0.788
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	54	5270	16.30	16.50	1.047	100.00	1.000	-0.12	0.759	0.795
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	-0.01	0.227	0.273
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	0.04	0.352	0.423
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	62	5310	15.00	15.00	1.000	100.00	1.000	-0.05	0.491	0.491
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	54	5270	14.80	15.00	1.047	100.00	1.000	0.05	0.518	0.542
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	0.09	0.199	0.239
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	62	5310	14.20	15.00	1.202	100.00	1.000	-0.13	0.089	0.107
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 2	Ant 9+8(9)	DBS	54	5270	14.80	15.00	1.047	100.00	1.000	-0.19	0.472	0.494
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 3	Ant 9+8(9)	DBS	54	5270	14.80	15.00	1.047	100.00	1.000	0.08	0.464	0.486
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 2	Battery 1	Ant 9+8(9)	DBS	54	5270	14.80	15.00	1.047	100.00	1.000	-0.16	0.491	0.514
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	DBS	54	5270	14.80	15.00	1.047	100.00	1.000	0.06	0.471	0.493
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.06	0.266	0.343
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	0.03	0.372	0.479
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	110	5550	15.90	16.50	1.148	100.00	1.000	-0.07	0.618	0.710
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	102	5510	14.10	14.50	1.096	100.00	1.000	0.09	0.384	0.421
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	126	5630	15.50	16.50	1.259	100.00	1.000	-0.01	0.607	0.764
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	134	5670	14.30	14.50	1.047	100.00	1.000	-0.05	0.422	0.442
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS	142	5710	15.90	16.50	1.148	100.00	1.000	0.03	0.575	0.660
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	-0.05	0.287	0.370
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS	110	5550	15.40	16.50	1.288	100.00	1.000	0.07	0.128	0.165
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 2	Ant 9+8(9)	non-DBS	126	5630	15.50	16.50	1.259	100.00	1.000	-0.02	0.598	0.753
101	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 1	Battery 3	Ant 9+8(9)	non-DBS	126	5630	15.50	16.50	1.259	100.00	1.000	-0.17	0.592	0.745
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 2	Battery 1	Ant 9+8(9)	non-DBS	126	5630	15.50	16.50	1.259	100.00	1.000	0.1	0.634	0.798
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	126	5630	15.50	16.50	1.259	100.00	1.000	-0.11	0.820	1.032
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	110	5550	15.90	16.50	1.148	100.00	1.000	0.04	0.811	0.931
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	102	5510	14.10	14.50	1.096	100.00	1.000	0.01	0.569	0.624
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	134	5670	14.30	14.50	1.047	100.00	1.000	0.17	0.612	0.641
	WLAN5GHz	802.11n-HT40 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	non-DBS	142	5710	15.90	16.50	1.148	100.00	1.000	-0.13	0.744	0.854
	WLAN5GHz	802.11ac-VHT160 MCS0	Front	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.14	0.133	0.167
	WLAN5GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0.01	0.186	0.234
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	DBS	114	5570	13.10	13.50	1.096	100.00	1.000	-0.05	0.309	0.339
	WLAN5GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	0	0.143	0.180
	WLAN5GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	DBS	114	5570	12.50	13.50	1.259	100.00	1.000	-0.17	0.064	0.081
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Sample 1	Battery 2	Ant 9+8(9)	DBS	114	5570	13.10	13.50	1.096	100.00	1.000	-0.05	0.287	0.315
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Sample 1	Battery 3	Ant 9+8(9)	DBS	114	5570	13.10	13.50	1.096	100.00	1.000	0.06	0.279	0.306
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Sample 2	Battery 1	Ant 9+8(9)	DBS	114	5570	13.10	13.50	1.096	100.00	1.000	0	0.317	0.348
	WLAN5GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Sample 3	Battery 1	Ant 9+8(9)	DBS	114	5570	13.10	13.50	1.096	100.00	1.000	-0.01	0.371	0.407



Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Antenna	Output Power State	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)	Measured APD (W/m ²)
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	111	6505	14.20	14.50	1.072	98.2	1.018	-0.18	0.061	0.067	1.340
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	111	6505	14.20	14.50	1.072	98.2	1.018	-0.03	0.155	0.169	3.420
102	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	15	6025	12.40	13.50	1.288	98.2	1.018	0.07	0.250	0.328	5.740
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	47	6185	12.00	13.50	1.413	98.2	1.018	0.01	0.223	0.321	4.920
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	175	6825	13.80	14.50	1.175	98.2	1.018	-0.16	0.135	0.161	2.980
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	207	6985	13.90	14.00	1.023	98.2	1.018	-0.12	0.145	0.151	3.190
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Side	0mm	Sample 1	Battery 1	Ant 9+8(9)	non-DBS/DBS	111	6505	14.50	14.50	1.000	98.2	1.018	0	0.156	0.159	3.460
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	111	6505	14.20	14.50	1.072	98.2	1.018	0.15	0.089	0.097	1.950
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	0mm	Sample 1	Battery 1	Ant 9+8(8)	non-DBS/DBS	111	6505	14.20	14.50	1.072	98.2	1.018	0.19	0.070	0.076	1.540
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 2	Ant 9+8(8)	non-DBS/DBS	15	6025	12.40	13.50	1.288	98.2	1.018	-0.04	0.241	0.316	5.620
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 1	Battery 3	Ant 9+8(8)	non-DBS/DBS	15	6025	12.40	13.50	1.288	98.2	1.018	0.05	0.231	0.303	5.580
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 2	Battery 1	Ant 9+8(8)	non-DBS/DBS	15	6025	12.40	13.50	1.288	98.2	1.018	0.09	0.221	0.290	5.300
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	0mm	Sample 3	Battery 1	Ant 9+8(8)	non-DBS/DBS	15	6025	12.40	13.50	1.288	98.2	1.018	-0.01	0.229	0.300	5.390

15.5 6GHz PD Test Result

Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (A)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	15	6025	12.40	0.0625	3.91	-0.03319464	3.78	4.16
WLAN6GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 9+8(8)	Sample 1	Battery 1	15	6025	12.40	0.25	3.94		2.35	2.43
WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	207	6985	13.90	0.0625	6.73	-0.05132048	3.78	4.57
WLAN6GHz	802.11ac-VHT160 MCS0	Back	8.59mm	Ant 9+8(8)	Sample 1	Battery 1	207	6985	13.90	0.25	6.81		2.34	2.57

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Sample	Battery	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Grid Step (A)	Scaling Factor for Measurement Uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
01	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	15	6025	12.40	13.50	100.00	1.000	0.0625	1.5535	-0.05	3.78	7.56	4.16	8.33
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	47	6185	12.00	13.50	100.00	1.000	0.0625	1.5535	0.02	3.04	6.67	3.36	7.37
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	111	6505	14.20	14.50	100.00	1.000	0.0625	1.5535	-0.19	2.78	4.63	3.18	5.29
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	175	6825	13.80	14.50	100.00	1.000	0.0625	1.5535	-0.1	3.07	5.60	3.82	6.97
	WLAN6GHz	802.11ac-VHT160 MCS0	Back	2mm	Ant 9+8(8)	Sample 1	Battery 1	207	6985	13.90	14.00	100.00	1.000	0.0625	1.5535	-0.13	3.48	5.53	4.24	6.74
	WLAN6GHz	802.11ac-VHT160 MCS0	Front	2mm	Ant 9+8(8)	Sample 1	Battery 1	111	6505	14.20	14.50	100.00	1.000	0.0625	1.5535	-0.19	0.923	1.54	1.15	1.91
	WLAN6GHz	802.11ac-VHT160 MCS0	Left Side	2mm	Ant 9+8(8)	Sample 1	Battery 1	111	6505	14.20	14.50	100.00	1.000	0.0625	1.5535	-0.04	3.42	5.69	3.89	6.48
	WLAN6GHz	802.11ac-VHT160 MCS0	Right Side	2mm	Ant 9+8(8)	Sample 1	Battery 1	111	6505	14.20	14.50	100.00	1.000	0.0625	1.5535	0.07	1.56	2.60	1.68	2.80
	WLAN6GHz	802.11ac-VHT160 MCS0	Top Side	2mm	Ant 9+8(8)	Sample 1	Battery 1	111	6505	14.20	14.50	100.00	1.000	0.0625	1.5535	-0.06	1.54	2.56	1.89	3.15

15.6 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	Holster	WLAN ON / OFF	Output Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 66_Ant 4	20M_QPSK_1_0	Bottom Side	10mm	Sample 1	Battery 1			DSI 3	132072	1720	22.40	23.30	1.230	-0.03	0.911	-	1.121
2nd	LTE Band 66_Ant 4	20M_QPSK_1_0	Bottom Side	10mm	Sample 1	Battery 1	-		DSI 3	132072	1720	22.40	23.30	1.230	0.06	0.884	1.031	1.088
1st	FR1 n48_Ant 12	40M_BPSK_50_28	Right Side	10mm	Sample 3	Battery 1			DSI 3	645332	3679.98	17.94	18.50	1.138	0.18	0.946	-	1.076
2nd	FR1 n48_Ant 12	40M_BPSK_50_28	Right Side	10mm	Sample 3	Battery 1	-		DSI 3	645332	3679.98	17.94	18.50	1.138	0.18	0.932	1.015	1.060
1st	FR1 n77_HPUE_Ant 12	100M_BPSK_1_1	Right Side	10mm	Sample 2	Battery 1			DSI 3	656000	3840	15.11	15.80	1.172	0.18	1.010	-	1.184
2nd	FR1 n77_HPUE_Ant 12	100M_BPSK_1_1	Right Side	10mm	Sample 2	Battery 1	-		DSI 3	656000	3840	15.11	15.80	1.172	0.18	0.994	1.016	1.165
1st	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	-0.04	0.893	-	1.002
2nd	WCDMA V_Ant 4	RMC 12.2Kbps	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	4182	836.4	24.70	25.20	1.122	-0.04	0.872	1.024	0.978
1st	FR1 n25_Ant 4	20M_BPSK_1_1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	-0.14	0.877	-	1.180
2nd	FR1 n25_Ant 4	20M_BPSK_1_1	Back	0mm	Sample 2	Battery 1	Soft Holster	WLAN OFF	DSI 1	372000	1860	22.31	23.60	1.346	-0.14	0.855	1.026	1.151
1st	FR1 n41_HPUE_Ant 6	100M_BPSK_135_69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.16	0.930	-	1.108
2nd	FR1 n41_HPUE_Ant 6	100M_BPSK_135_69	Back	0mm	Sample 1	Battery 1	Soft Holster	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.16	0.911	1.021	1.085

No.	Band	Mode	Test Position	Gap (mm)	Sample	Battery	WLAN ON / OFF	Output Power State	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	FR1 n41_HPUE_Ant 6	100M_BPSK_135_69	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	-0.13	2.210	-	2.633
2nd	FR1 n41_HPUE_Ant 6	100M_BPSK_135_69	Left Side	0mm	Sample 1	Battery 1	WLAN OFF	DSI 1	518598	2592.99	26.24	27.00	1.191	0.12	2.190	1.009	2.609
1st	FR1 n48_Ant 12	40M_BPSK_50_28	Right Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	-0.18	2.350	-	2.925
2nd	FR1 n48_Ant 12	40M_BPSK_50_28	Right Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	645332	3679.98	21.05	22.00	1.245	0.14	2.290	1.026	2.850
1st	FR1 n77_HPUE_Ant 11	100M_BPSK_1_1	Left Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.15	2.680	-	3.084
2nd	FR1 n77_HPUE_Ant 11	100M_BPSK_1_1	Left Side	0mm	Sample 2	Battery 1	WLAN OFF	DSI 1	633332	3499.98	20.09	20.70	1.151	0.15	2.520	1.063	2.900

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the Product Specific repeated SAR is necessary, the same procedures should be adapted for measurements according to Product Specific and occupational exposure limits by applying a factor of 2.5 for Product Specific 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.

15.7 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

Use PC3 power level and SAR to estimated PC2 SAR linearly, and check if the deviation from the measured PC2 SAR is <10%

Head_Ant 6	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	24.6	26.6
Reported 1g SAR (W/kg)	0.369	0.437
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	182.56	197.92
Linearity SAR(W/kg)	0.40	
% deviation from expected linearity		9.24%

Hotspot_Ant 6	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	23.7	25.3
Reported 1g SAR (W/kg)	0.908	0.831
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	148.39	146.72
Linearity SAR(W/kg)	0.90	
% deviation from expected linearity		-7.44%

Body worn_Ant 6	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25	27
Reported 1g SAR (W/kg)	0.655	0.651
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	200.17	217.01
Linearity SAR(W/kg)	0.71	
% deviation from expected linearity		-8.32%

Product Specific_Ant 6	LTE Band 41	LTE Band 41
	(Power Class 3)	(Power Class 2)
Maximum Tune up Power (dBm)	25	27
Reported 1g SAR (W/kg)	1.457	1.45
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	200.17	217.01
Linearity SAR(W/kg)	1.58	
% deviation from expected linearity		-8.20%

16. Simultaneous Transmission Analysis

Non-DBS					
NO.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product Specific
1.	WWAN + WLAN2.4GHz Ant 8 + Bluetooth Ant 9	Yes	Yes	Yes	
2.	WWAN + WLAN2.4GHz Ant 9+8	Yes	Yes	Yes	
3.	WWAN + WLAN6GHz Ant 9+8 + Bluetooth Ant 9	Yes	Yes	Yes	
4.	WWAN + WLAN5GHz Ant 9+8 + Bluetooth Ant 9	Yes	Yes	Yes	
5.	WWAN + WLAN6GHz Ant 9+8				Yes
6.	WWAN + WLAN5GHz Ant 9+8				Yes

DBS					
NO.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product Specific
7.	WWAN + WLAN2.4GHz Ant 9+8+ WLAN5GHz Ant 9+8	Yes	Yes	Yes	
8.	WWAN + WLAN2.4GHz Ant 9+8+ WLAN6GHz Ant 9+8	Yes	Yes	Yes	
9.	WWAN + WLAN2.4GHz Ant 8 + WLAN5GHz Ant 9+8 + Bluetooth Ant 9	Yes	Yes	Yes	
10.	WWAN + WLAN2.4GHz Ant 8 + WLAN6GHz Ant 9+8 + Bluetooth Ant 9	Yes	Yes	Yes	
11.	WWAN + WLAN6GHz Ant 9+8				Yes
12.	WWAN + WLAN5GHz Ant 9+8				Yes

General Note:

1. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
2. The worst case WWAN from each transmit antenna regardless of the EN-DC combination are using for Sim-Tx analysis Therefore, the following summations represent the absolute worst cases for Sim-Tx analysis
3. The worst case WLAN reported SAR for each configuration was used for SAR summation. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
4. The Scaled SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

**16.1 Head Exposure Conditions**

<Non-DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+6+7 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5+7 Summed 1g SAR (W/kg)	2+6+7 Summed 1g SAR (W/kg)	2+3+7 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	FR1 1g SAR (W/kg)	WLAN 2.4GHz Ant 8 1g SAR (W/kg)	WLAN 2.4GHz Ant 9+8 1g SAR (W/kg)	WLAN 5GHz Ant 9+8 1g SAR (W/kg)	WLAN 6GHz Ant 9+8 1g SAR (W/kg)	Bluetooth Ant 9 1g SAR (W/kg)								
GSM850_Ant 4		Right Cheek	0.160		0.288	0.312	0.478	0.088	0.001	0.472	0.639	0.249	0.449	0.312	0.479	0.089	0.289
		Right Tilted	0.115		0.116	0.330	0.586	0.110	0.001	0.445	0.702	0.226	0.232	0.330	0.587	0.111	0.117
		Left Cheek	0.316		0.645	0.796	1.195	0.331	0.001	1.112	1.512	0.648	0.962	0.796	1.196	0.332	0.646
		Left Tilted	0.125		0.221	0.336	0.796	0.257	0.001	0.461	0.922	0.383	0.347	0.336	0.797	0.258	0.222
GSM1900_Ant 4		Right Cheek	0.127		0.288	0.312	0.478	0.088	0.001	0.439	0.606	0.216	0.416	0.312	0.479	0.089	0.289
		Right Tilted	0.001		0.116	0.330	0.586	0.110	0.001	0.331	0.588	0.112	0.118	0.330	0.587	0.111	0.117
		Left Cheek	0.059		0.645	0.796	1.195	0.331	0.001	0.855	1.255	0.391	0.705	0.796	1.196	0.332	0.646
		Left Tilted	0.001		0.221	0.336	0.796	0.257	0.001	0.337	0.798	0.259	0.223	0.336	0.797	0.258	0.222
WCDMA II_Ant 2		Right Cheek	0.475		0.288	0.312	0.478	0.088	0.001	0.787	0.954	0.564	0.764	0.312	0.479	0.089	0.289
		Right Tilted	0.106		0.116	0.330	0.586	0.110	0.001	0.436	0.693	0.217	0.223	0.330	0.587	0.111	0.117
		Left Cheek	0.201		0.645	0.796	1.195	0.331	0.001	0.997	1.397	0.533	0.847	0.796	1.196	0.332	0.646
		Left Tilted	0.104		0.221	0.336	0.796	0.257	0.001	0.440	0.901	0.362	0.326	0.336	0.797	0.258	0.222
WCDMA IV_Ant 2		Right Cheek	0.700		0.288	0.312	0.478	0.088	0.001	1.012	1.179	0.789	0.989	0.312	0.479	0.089	0.289
		Right Tilted	0.177		0.116	0.330	0.586	0.110	0.001	0.507	0.764	0.288	0.294	0.330	0.587	0.111	0.117
		Left Cheek	0.383		0.645	0.796	1.195	0.331	0.001	1.179	1.579	0.715	1.029	0.796	1.196	0.332	0.646
		Left Tilted	0.167		0.221	0.336	0.796	0.257	0.001	0.503	0.964	0.425	0.389	0.336	0.797	0.258	0.222
WCDMA V_Ant 4		Right Cheek	0.302		0.288	0.312	0.478	0.088	0.001	0.614	0.781	0.391	0.591	0.312	0.479	0.089	0.289
		Right Tilted	0.182		0.116	0.330	0.586	0.110	0.001	0.512	0.769	0.293	0.299	0.330	0.587	0.111	0.117
		Left Cheek	0.338		0.645	0.796	1.195	0.331	0.001	1.134	1.534	0.670	0.984	0.796	1.196	0.332	0.646
		Left Tilted	0.261		0.221	0.336	0.796	0.257	0.001	0.597	1.058	0.519	0.483	0.336	0.797	0.258	0.222
LTE Band 7_Ant 6	FR1 n7_Ant 6	Right Cheek	0.128	0.130	0.288	0.312	0.478	0.088	0.001	0.440	0.607	0.217	0.417	0.442	0.609	0.219	0.419
		Right Tilted	0.073	0.078	0.116	0.330	0.586	0.110	0.001	0.403	0.660	0.184	0.190	0.408	0.665	0.189	0.195
		Left Cheek	0.390	0.337	0.645	0.796	1.195	0.331	0.001	1.186	1.586	0.722	1.036	1.133	1.533	0.669	0.983
		Left Tilted	0.101	0.109	0.221	0.336	0.796	0.257	0.001	0.437	0.898	0.359	0.323	0.445	0.906	0.367	0.331
LTE Band 12_Ant 0	FR1 n12_Ant 0	Right Cheek	0.347	0.246	0.288	0.312	0.478	0.088	0.001	0.659	0.826	0.436	0.636	0.558	0.725	0.335	0.535
		Right Tilted	0.203	0.137	0.116	0.330	0.586	0.110	0.001	0.533	0.790	0.314	0.320	0.467	0.724	0.248	0.254
		Left Cheek	0.306	0.214	0.645	0.796	1.195	0.331	0.001	1.102	1.502	0.638	0.952	1.010	1.410	0.546	0.860
		Left Tilted	0.193	0.114	0.221	0.336	0.796	0.257	0.001	0.529	0.990	0.451	0.415	0.450	0.911	0.372	0.336
LTE Band 13_Ant 0	FR1 n13_Ant 0	Right Cheek	0.323	0.287	0.288	0.312	0.478	0.088	0.001	0.635	0.802	0.412	0.612	0.599	0.766	0.376	0.576
		Right Tilted	0.202	0.203	0.116	0.330	0.586	0.110	0.001	0.532	0.789	0.313	0.319	0.533	0.790	0.314	0.320
		Left Cheek	0.162	0.157	0.645	0.796	1.195	0.331	0.001	0.958	1.358	0.494	0.808	0.953	1.353	0.489	0.803
		Left Tilted	0.129	0.129	0.221	0.336	0.796	0.257	0.001	0.465	0.926	0.387	0.351	0.465	0.926	0.387	0.351
LTE Band 14_Ant 0	FR1 n14_Ant 0	Right Cheek	0.510	0.248	0.288	0.312	0.478	0.088	0.001	0.822	0.989	0.599	0.799	0.560	0.727	0.337	0.537
		Right Tilted	0.334	0.168	0.116	0.330	0.586	0.110	0.001	0.664	0.921	0.445	0.451	0.498	0.755	0.279	0.285
		Left Cheek	0.289	0.142	0.645	0.796	1.195	0.331	0.001	1.085	1.485	0.621	0.935	0.938	1.338	0.474	0.788
		Left Tilted	0.230	0.107	0.221	0.336	0.796	0.257	0.001	0.566	1.027	0.488	0.452	0.443	0.904	0.365	0.329
LTE Band 25_Ant 2	FR1 n25_Ant 2	Right Cheek	0.409	0.423	0.288	0.312	0.478	0.088	0.001	0.721	0.888	0.498	0.698	0.735	0.902	0.512	0.712
		Right Tilted	0.103	0.093	0.116	0.330	0.586	0.110	0.001	0.433	0.690	0.214	0.220	0.423	0.680	0.204	0.210
		Left Cheek	0.179	0.218	0.645	0.796	1.195	0.331	0.001	0.975	1.375	0.511	0.825	1.014	1.414	0.550	0.864
		Left Tilted	0.085	0.086	0.221	0.336	0.796	0.257	0.001	0.421	0.882	0.343	0.307	0.422	0.883	0.344	0.308
LTE Band 25_Ant 4	FR1 n25_Ant 4	Right Cheek	0.252	0.178	0.288	0.312	0.478	0.088	0.001	0.564	0.731	0.341	0.541	0.490	0.657	0.267	0.467
		Right Tilted	0.077	0.056	0.116	0.330	0.586	0.110	0.001	0.407	0.664	0.188	0.194	0.386	0.643	0.167	0.173
		Left Cheek	0.161	0.105	0.645	0.796	1.195	0.331	0.001	0.957	1.357	0.493	0.807	0.901	1.301	0.437	0.751
		Left Tilted	0.096	0.070	0.221	0.336	0.796	0.257	0.001	0.432	0.893	0.354	0.318	0.406	0.867	0.328	0.292
LTE Band 26_Ant 4	FR1 n26_Ant 4	Right Cheek	0.246	0.390	0.288	0.312	0.478	0.088	0.001	0.558	0.725	0.335	0.535	0.702	0.869	0.479	0.679
		Right Tilted	0.151	0.219	0.116	0.330	0.586	0.110	0.001	0.481	0.738	0.262	0.268	0.549	0.806	0.330	0.336
		Left Cheek	0.251	0.312	0.645	0.796	1.195	0.331	0.001	1.047	1.447	0.583	0.897	1.108	1.508	0.644	0.958
		Left Tilted	0.203	0.273	0.221	0.336	0.796	0.257	0.001	0.539	1.000	0.461	0.425	0.609	1.070	0.531	0.495



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LTE Band 66_Ant 2	FR1 n66_Ant 2	Right Cheek	0.443	0.781	0.288	0.312	0.478	0.088	0.001	0.755	0.922	0.532	0.732	1.093	1.260	0.870	1.070
		Right Tilted	0.136	0.246	0.116	0.330	0.586	0.110	0.001	0.466	0.723	0.247	0.253	0.576	0.833	0.357	0.363
		Left Cheek	0.196	0.279	0.645	0.796	1.195	0.331	0.001	0.992	1.392	0.528	0.842	1.075	1.475	0.611	0.925
		Left Tilted	0.106	0.135	0.221	0.336	0.796	0.257	0.001	0.442	0.903	0.364	0.328	0.471	0.932	0.393	0.357
LTE Band 66_Ant 4	FR1 n66_Ant 4	Right Cheek	0.160	0.034	0.288	0.312	0.478	0.088	0.001	0.472	0.639	0.249	0.449	0.346	0.513	0.123	0.323
		Right Tilted	0.001	0.001	0.116	0.330	0.586	0.110	0.001	0.331	0.588	0.112	0.118	0.331	0.588	0.112	0.118
		Left Cheek	0.071	0.001	0.645	0.796	1.195	0.331	0.001	0.867	1.267	0.403	0.717	0.797	1.197	0.333	0.647
		Left Tilted	0.001	0.001	0.221	0.336	0.796	0.257	0.001	0.337	0.798	0.259	0.223	0.337	0.798	0.259	0.223
LTE Band 71_Ant 0	FR1 n71_Ant 0	Right Cheek	0.366	0.399	0.288	0.312	0.478	0.088	0.001	0.678	0.845	0.455	0.655	0.711	0.878	0.488	0.688
		Right Tilted	0.218	0.213	0.116	0.330	0.586	0.110	0.001	0.548	0.805	0.329	0.335	0.543	0.800	0.324	0.330
		Left Cheek	0.333	0.305	0.645	0.796	1.195	0.331	0.001	1.129	1.529	0.665	0.979	1.101	1.501	0.637	0.951
		Left Tilted	0.187	0.172	0.221	0.336	0.796	0.257	0.001	0.523	0.984	0.445	0.409	0.508	0.969	0.430	0.394
LTE Band 41_Ant 6	FR1 n41_Ant 6	Right Cheek	0.153	0.148	0.288	0.312	0.478	0.088	0.001	0.465	0.632	0.242	0.442	0.460	0.627	0.237	0.437
		Right Tilted	0.001	0.077	0.116	0.330	0.586	0.110	0.001	0.331	0.588	0.112	0.118	0.407	0.664	0.188	0.194
		Left Cheek	0.395	0.337	0.645	0.796	1.195	0.331	0.001	1.191	1.591	0.727	1.041	1.133	1.533	0.669	0.983
		Left Tilted	0.088	0.097	0.221	0.336	0.796	0.257	0.001	0.424	0.885	0.346	0.310	0.433	0.894	0.355	0.319
LTE Band 48_Ant 12	FR1 n41_Ant 12	Right Cheek	0.208	0.998	0.288	0.312	0.478	0.088	0.001	0.520	0.687	0.297	0.497	1.310	1.477	1.087	1.287
		Right Tilted	0.138	0.086	0.116	0.330	0.586	0.110	0.001	0.468	0.725	0.249	0.255	0.416	0.673	0.197	0.203
		Left Cheek	0.058	0.238	0.645	0.796	1.195	0.331	0.001	0.854	1.254	0.390	0.704	1.034	1.434	0.570	0.884
		Left Tilted	0.032	0.154	0.221	0.336	0.796	0.257	0.001	0.368	0.829	0.290	0.254	0.490	0.951	0.412	0.376
LTE Band 48_Ant 11	FR1 n41_Ant 1	Right Cheek	0.066	0.827	0.288	0.312	0.478	0.088	0.001	0.378	0.545	0.155	0.355	1.139	1.306	0.916	1.116
		Right Tilted	0.020	0.499	0.116	0.330	0.586	0.110	0.001	0.350	0.607	0.131	0.137	0.829	1.086	0.610	0.616
		Left Cheek	0.323	0.396	0.645	0.796	1.195	0.331	0.001	1.119	1.519	0.655	0.969	1.192	1.592	0.728	1.042
		Left Tilted	0.041	0.273	0.221	0.336	0.796	0.257	0.001	0.377	0.838	0.299	0.263	0.609	1.070	0.531	0.495
	FR1 n41_Ant 7	Right Cheek		0.145	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.457	0.624	0.234	0.434
		Right Tilted		0.038	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.368	0.625	0.149	0.155
		Left Cheek		0.397	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	1.193	1.593	0.729	1.043
		Left Tilted		0.027	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.363	0.824	0.285	0.249
	FR1 n48_Ant 12	Right Cheek		0.146	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.458	0.625	0.235	0.435
		Right Tilted		0.030	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.360	0.617	0.141	0.147
		Left Cheek		0.031	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	0.827	1.227	0.363	0.677
		Left Tilted		0.001	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.337	0.798	0.259	0.223
	FR1 n48_Ant 11	Right Cheek		0.071	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.383	0.550	0.160	0.360
		Right Tilted		0.027	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.357	0.614	0.138	0.144
		Left Cheek		0.336	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	1.132	1.532	0.668	0.982
		Left Tilted		0.043	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.379	0.840	0.301	0.265
	FR1 n77_Ant 12	Right Cheek		0.539	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.851	1.018	0.628	0.828
		Right Tilted		0.124	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.454	0.711	0.235	0.241
		Left Cheek		0.155	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	0.951	1.351	0.487	0.801
		Left Tilted		0.061	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.397	0.858	0.319	0.283
	FR1 n77_Ant 11	Right Cheek		0.074	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.386	0.553	0.163	0.363
		Right Tilted		0.001	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.331	0.588	0.112	0.118
		Left Cheek		0.345	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	1.141	1.541	0.677	0.991
		Left Tilted		0.033	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.369	0.830	0.291	0.255
	FR1 n77_Ant 5	Right Cheek		0.275	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.587	0.754	0.364	0.564
		Right Tilted		0.321	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.651	0.908	0.432	0.438
		Left Cheek		0.321	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	1.117	1.517	0.653	0.967
		Left Tilted		0.364	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.700	1.161	0.622	0.586
	FR1 n77_Ant 3	Right Cheek		0.441	0.288	0.312	0.478	0.088	0.001	0.312	0.479	0.089	0.289	0.753	0.920	0.530	0.730
		Right Tilted		0.047	0.116	0.330	0.586	0.110	0.001	0.330	0.587	0.111	0.117	0.377	0.634	0.158	0.164
		Left Cheek		0.198	0.645	0.796	1.195	0.331	0.001	0.796	1.196	0.332	0.646	0.994	1.394	0.530	0.844
		Left Tilted		0.066	0.221	0.336	0.796	0.257	0.001	0.336	0.797	0.258	0.222	0.402	0.863	0.324	0.288



<DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+3+5+7 Summed 1g SAR (W/kg)	1+3+6+7 Summed 1g SAR (W/kg)	2+4+5 Summed 1g SAR (W/kg)	2+4+6 Summed 1g SAR (W/kg)	2+3+5+7 Summed 1g SAR (W/kg)	2+3+6+7 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN 2.4GHz Ant 8	WLAN 2.4GHz Ant 9+8	WLAN 5GHz Ant 9+8	WLAN 6GHz Ant 9+8	Bluetooth Ant 9								
			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)								
GSM850_Ant 4		Right Cheek	0.160		0.163	0.201	0.297	0.088	0.001	0.658	0.449	0.621	0.412	0.498	0.289	0.461	0.252
		Right Tilted	0.115		0.065	0.213	0.358	0.110	0.001	0.686	0.438	0.539	0.291	0.571	0.323	0.424	0.176
		Left Cheek	0.316		0.398	0.503	0.681	0.331	0.001	1.500	1.150	1.396	1.046	1.184	0.834	1.080	0.730
		Left Tilted	0.125		0.125	0.218	0.502	0.257	0.001	0.845	0.600	0.753	0.508	0.720	0.475	0.628	0.383
GSM1900_Ant 4		Right Cheek	0.127		0.163	0.201	0.297	0.088	0.001	0.625	0.416	0.588	0.379	0.498	0.289	0.461	0.252
		Right Tilted	0.001		0.065	0.213	0.358	0.110	0.001	0.572	0.324	0.425	0.177	0.571	0.323	0.424	0.176
		Left Cheek	0.059		0.398	0.503	0.681	0.331	0.001	1.243	0.893	1.139	0.789	1.184	0.834	1.080	0.730
		Left Tilted	0.001		0.125	0.218	0.502	0.257	0.001	0.721	0.476	0.629	0.384	0.720	0.475	0.628	0.383
WCDMA II_Ant 2		Right Cheek	0.475		0.163	0.201	0.297	0.088	0.001	0.973	0.764	0.936	0.727	0.498	0.289	0.461	0.252
		Right Tilted	0.106		0.065	0.213	0.358	0.110	0.001	0.677	0.429	0.530	0.282	0.571	0.323	0.424	0.176
		Left Cheek	0.201		0.398	0.503	0.681	0.331	0.001	1.385	1.035	1.281	0.931	1.184	0.834	1.080	0.730
		Left Tilted	0.104		0.125	0.218	0.502	0.257	0.001	0.824	0.579	0.732	0.487	0.720	0.475	0.628	0.383
WCDMA IV_Ant 2		Right Cheek	0.700		0.163	0.201	0.297	0.088	0.001	1.198	0.989	1.161	0.952	0.498	0.289	0.461	0.252
		Right Tilted	0.177		0.065	0.213	0.358	0.110	0.001	0.748	0.500	0.601	0.353	0.571	0.323	0.424	0.176
		Left Cheek	0.383		0.398	0.503	0.681	0.331	0.001	1.567	1.217	1.463	1.113	1.184	0.834	1.080	0.730
		Left Tilted	0.167		0.125	0.218	0.502	0.257	0.001	0.887	0.642	0.795	0.550	0.720	0.475	0.628	0.383
WCDMA V_Ant 4		Right Cheek	0.302		0.163	0.201	0.297	0.088	0.001	0.800	0.591	0.763	0.554	0.498	0.289	0.461	0.252
		Right Tilted	0.182		0.065	0.213	0.358	0.110	0.001	0.753	0.505	0.606	0.358	0.571	0.323	0.424	0.176
		Left Cheek	0.338		0.398	0.503	0.681	0.331	0.001	1.522	1.172	1.418	1.068	1.184	0.834	1.080	0.730
		Left Tilted	0.261		0.125	0.218	0.502	0.257	0.001	0.981	0.736	0.889	0.644	0.720	0.475	0.628	0.383
LTE Band 7_Ant 6	FR1 n7_Ant 6	Right Cheek	0.128	0.130	0.163	0.201	0.297	0.088	0.001	0.626	0.417	0.589	0.380	0.628	0.419	0.591	0.382
		Right Tilted	0.073	0.078	0.065	0.213	0.358	0.110	0.001	0.644	0.396	0.497	0.249	0.649	0.401	0.502	0.254
		Left Cheek	0.390	0.337	0.398	0.503	0.681	0.331	0.001	1.574	1.224	1.470	1.120	1.521	1.171	1.417	1.067
		Left Tilted	0.101	0.109	0.125	0.218	0.502	0.257	0.001	0.821	0.576	0.729	0.484	0.829	0.584	0.737	0.492
LTE Band 12_Ant 0	FR1 n12_Ant 0	Right Cheek	0.347	0.246	0.163	0.201	0.297	0.088	0.001	0.845	0.636	0.808	0.599	0.744	0.535	0.707	0.498
		Right Tilted	0.203	0.137	0.065	0.213	0.358	0.110	0.001	0.774	0.526	0.627	0.379	0.708	0.460	0.561	0.313
		Left Cheek	0.306	0.214	0.398	0.503	0.681	0.331	0.001	1.490	1.140	1.386	1.036	1.398	1.048	1.294	0.944
		Left Tilted	0.193	0.114	0.125	0.218	0.502	0.257	0.001	0.913	0.668	0.821	0.576	0.834	0.589	0.742	0.497
LTE Band 13_Ant 0	FR1 n13_Ant 0	Right Cheek	0.323	0.287	0.163	0.201	0.297	0.088	0.001	0.821	0.612	0.784	0.575	0.785	0.576	0.748	0.539
		Right Tilted	0.202	0.203	0.065	0.213	0.358	0.110	0.001	0.773	0.525	0.626	0.378	0.774	0.526	0.627	0.379
		Left Cheek	0.162	0.157	0.398	0.503	0.681	0.331	0.001	1.346	0.996	1.242	0.892	1.341	0.991	1.237	0.887
		Left Tilted	0.129	0.129	0.125	0.218	0.502	0.257	0.001	0.849	0.604	0.757	0.512	0.849	0.604	0.757	0.512
LTE Band 14_Ant 0	FR1 n14_Ant 0	Right Cheek	0.510	0.248	0.163	0.201	0.297	0.088	0.001	1.008	0.799	0.971	0.762	0.746	0.537	0.709	0.500
		Right Tilted	0.334	0.168	0.065	0.213	0.358	0.110	0.001	0.905	0.657	0.758	0.510	0.739	0.491	0.592	0.344
		Left Cheek	0.289	0.142	0.398	0.503	0.681	0.331	0.001	1.473	1.123	1.369	1.019	1.326	0.976	1.222	0.872
		Left Tilted	0.230	0.107	0.125	0.218	0.502	0.257	0.001	0.950	0.705	0.858	0.613	0.827	0.582	0.735	0.490
LTE Band 25_Ant 2	FR1 n25_Ant 2	Right Cheek	0.409	0.423	0.163	0.201	0.297	0.088	0.001	0.907	0.698	0.870	0.661	0.921	0.712	0.884	0.675
		Right Tilted	0.103	0.093	0.065	0.213	0.358	0.110	0.001	0.674	0.426	0.527	0.279	0.664	0.416	0.517	0.269
		Left Cheek	0.179	0.218	0.398	0.503	0.681	0.331	0.001	1.363	1.013	1.259	0.909	1.402	1.052	1.298	0.948
		Left Tilted	0.085	0.086	0.125	0.218	0.502	0.257	0.001	0.805	0.560	0.713	0.468	0.806	0.561	0.714	0.469
LTE Band 25_Ant 4	FR1 n25_Ant 4	Right Cheek	0.252	0.178	0.163	0.201	0.297	0.088	0.001	0.750	0.541	0.713	0.504	0.676	0.467	0.639	0.430
		Right Tilted	0.077	0.056	0.065	0.213	0.358	0.110	0.001	0.648	0.400	0.501	0.253	0.627	0.379	0.480	0.232
		Left Cheek	0.161	0.105	0.398	0.503	0.681	0.331	0.001	1.345	0.995	1.241	0.891	1.289	0.939	1.185	0.835
		Left Tilted	0.096	0.070	0.125	0.218	0.502	0.257	0.001	0.816	0.571	0.724	0.479	0.790	0.545	0.698	0.453
LTE Band 26_Ant 4	FR1 n26_Ant 4	Right Cheek	0.246	0.390	0.163	0.201	0.297	0.088	0.001	0.744	0.535	0.707	0.498	0.888	0.679	0.851	0.642
		Right Tilted	0.151	0.219	0.065	0.213	0.358	0.110	0.001	0.722	0.474	0.575	0.327	0.790	0.542	0.643	0.395
		Left Cheek	0.251	0.312	0.398	0.503	0.681	0.331	0.001	1.435	1.085	1.331	0.981	1.496	1.146	1.392	1.042
		Left Tilted	0.203	0.273	0.125	0.218	0.502	0.257	0.001	0.923	0.678	0.831	0.586	0.993	0.748	0.901	0.656



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LTE Band 66_Ant 2	FR1 n66_Ant 2	Right Cheek	0.443	0.781	0.163	0.201	0.297	0.088	0.001	0.941	0.732	0.904	0.695	1.279	1.070	1.242	1.033
		Right Tilted	0.136	0.246	0.065	0.213	0.358	0.110	0.001	0.707	0.459	0.560	0.312	0.817	0.569	0.670	0.422
		Left Cheek	0.196	0.279	0.398	0.503	0.681	0.331	0.001	1.380	1.030	1.276	0.926	1.463	1.113	1.359	1.009
		Left Tilted	0.106	0.135	0.125	0.218	0.502	0.257	0.001	0.826	0.581	0.734	0.489	0.855	0.610	0.763	0.518
LTE Band 66_Ant 4	FR1 n66_Ant 4	Right Cheek	0.160	0.034	0.163	0.201	0.297	0.088	0.001	0.658	0.449	0.621	0.412	0.532	0.323	0.495	0.286
		Right Tilted	0.001	0.001	0.065	0.213	0.358	0.110	0.001	0.572	0.324	0.425	0.177	0.572	0.324	0.425	0.177
		Left Cheek	0.071	0.001	0.398	0.503	0.681	0.331	0.001	1.255	0.905	1.151	0.801	1.185	0.835	1.081	0.731
		Left Tilted	0.001	0.001	0.125	0.218	0.502	0.257	0.001	0.721	0.476	0.629	0.384	0.721	0.476	0.629	0.384
LTE Band 71_Ant 0	FR1 n71_Ant 0	Right Cheek	0.366	0.399	0.163	0.201	0.297	0.088	0.001	0.864	0.655	0.827	0.618	0.897	0.688	0.860	0.651
		Right Tilted	0.218	0.213	0.065	0.213	0.358	0.110	0.001	0.789	0.541	0.642	0.394	0.784	0.536	0.637	0.389
		Left Cheek	0.333	0.305	0.398	0.503	0.681	0.331	0.001	1.517	1.167	1.413	1.063	1.489	1.139	1.385	1.035
		Left Tilted	0.187	0.172	0.125	0.218	0.502	0.257	0.001	0.907	0.662	0.815	0.570	0.892	0.647	0.800	0.555
LTE Band 41_Ant 6	FR1 n41_Ant 6	Right Cheek	0.153	0.148	0.163	0.201	0.297	0.088	0.001	0.651	0.442	0.614	0.405	0.646	0.437	0.609	0.400
		Right Tilted	0.001	0.077	0.065	0.213	0.358	0.110	0.001	0.572	0.324	0.425	0.177	0.648	0.400	0.501	0.253
		Left Cheek	0.395	0.337	0.398	0.503	0.681	0.331	0.001	1.579	1.229	1.475	1.125	1.521	1.171	1.417	1.067
		Left Tilted	0.088	0.097	0.125	0.218	0.502	0.257	0.001	0.808	0.563	0.716	0.471	0.817	0.572	0.725	0.480
LTE Band 48_Ant 12	FR1 n41_Ant 12	Right Cheek	0.208	0.998	0.163	0.201	0.297	0.088	0.001	0.706	0.497	0.669	0.460	1.496	1.287	1.459	1.250
		Right Tilted	0.138	0.086	0.065	0.213	0.358	0.110	0.001	0.709	0.461	0.562	0.314	0.657	0.409	0.510	0.262
		Left Cheek	0.058	0.238	0.398	0.503	0.681	0.331	0.001	1.242	0.892	1.138	0.788	1.422	1.072	1.318	0.968
		Left Tilted	0.032	0.154	0.125	0.218	0.502	0.257	0.001	0.752	0.507	0.660	0.415	0.874	0.629	0.782	0.537
LTE Band 48_Ant 11	FR1 n41_Ant 1	Right Cheek	0.066	0.827	0.163	0.201	0.297	0.088	0.001	0.564	0.355	0.527	0.318	1.325	1.116	1.288	1.079
		Right Tilted	0.020	0.499	0.065	0.213	0.358	0.110	0.001	0.591	0.343	0.444	0.196	1.070	0.822	0.923	0.675
		Left Cheek	0.323	0.396	0.398	0.503	0.681	0.331	0.001	1.507	1.157	1.403	1.053	1.580	1.230	1.476	1.126
		Left Tilted	0.041	0.273	0.125	0.218	0.502	0.257	0.001	0.761	0.516	0.669	0.424	0.993	0.748	0.901	0.656
	FR1 n41_Ant 7	Right Cheek		0.145	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	0.643	0.434	0.606	0.397
		Right Tilted		0.038	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.609	0.361	0.462	0.214
		Left Cheek		0.397	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.581	1.231	1.477	1.127
		Left Tilted		0.027	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	0.747	0.502	0.655	0.410
	FR1 n48_Ant 12	Right Cheek		0.146	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	0.644	0.435	0.607	0.398
		Right Tilted		0.030	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.601	0.353	0.454	0.206
		Left Cheek		0.031	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.215	0.865	1.111	0.761
		Left Tilted		0.001	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	0.721	0.476	0.629	0.384
	FR1 n48_Ant 11	Right Cheek		0.071	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	0.569	0.360	0.532	0.323
		Right Tilted		0.027	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.598	0.350	0.451	0.203
		Left Cheek		0.336	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.520	1.170	1.416	1.066
		Left Tilted		0.043	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	0.763	0.518	0.671	0.426
	FR1 n77_Ant 12	Right Cheek		0.539	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	1.037	0.828	1.000	0.791
		Right Tilted		0.124	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.695	0.447	0.548	0.300
		Left Cheek		0.155	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.339	0.989	1.235	0.885
		Left Tilted		0.061	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	0.781	0.536	0.689	0.444
	FR1 n77_Ant 11	Right Cheek		0.074	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	0.572	0.363	0.535	0.326
		Right Tilted		0.001	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.572	0.324	0.425	0.177
		Left Cheek		0.345	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.529	1.179	1.425	1.075
		Left Tilted		0.033	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	0.753	0.508	0.661	0.416
	FR1 n77_Ant 5	Right Cheek		0.275	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	0.773	0.564	0.736	0.527
		Right Tilted		0.321	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.892	0.644	0.745	0.497
		Left Cheek		0.321	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.505	1.155	1.401	1.051
		Left Tilted		0.364	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	1.084	0.839	0.992	0.747
	FR1 n77_Ant 3	Right Cheek		0.441	0.163	0.201	0.297	0.088	0.001	0.498	0.289	0.461	0.252	0.939	0.730	0.902	0.693
		Right Tilted		0.047	0.065	0.213	0.358	0.110	0.001	0.571	0.323	0.424	0.176	0.618	0.370	0.471	0.223
		Left Cheek		0.198	0.398	0.503	0.681	0.331	0.001	1.184	0.834	1.080	0.730	1.382	1.032	1.278	0.928
		Left Tilted		0.066	0.125	0.218	0.502	0.257	0.001	0.720	0.475	0.628	0.383	0.786	0.541	0.694	0.449

**16.2 Hotspot Exposure Conditions**

<Non-DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+6+7 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5+7 Summed 1g SAR (W/kg)	2+6+7 Summed 1g SAR (W/kg)	2+3+7 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	FR1 1g SAR (W/kg)	WLAN 2.4GHz Ant 8 1g SAR (W/kg)	WLAN 2.4GHz Ant 9+8 1g SAR (W/kg)	WLAN 5GHz Ant 9+8 1g SAR (W/kg)	WLAN 6GHz Ant 9+8 1g SAR (W/kg)	Bluetooth Ant 9 1g SAR (W/kg)								
GSM850_Ant 4		Front	0.241		0.133	0.158	0.182		0.001	0.399	0.424	0.242	0.375	0.158	0.183	0.001	0.134
		Back	0.368		0.193	0.426	0.755		0.001	0.794	1.124	0.369	0.562	0.426	0.756	0.001	0.194
		Left side	0.181		0.043	0.661	0.579		0.005	0.842	0.765	0.186	0.229	0.661	0.584	0.005	0.048
		Right side	0.133		0.300	0.225	0.326		0.001	0.358	0.460	0.134	0.434	0.225	0.327	0.001	0.301
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.581							0.581	0.581	0.581	0.581	0.000	0.000	0.000	0.000
GSM1900_Ant 4		Front	0.095		0.133	0.158	0.182		0.001	0.253	0.278	0.096	0.229	0.158	0.183	0.001	0.134
		Back	0.736		0.193	0.426	0.755		0.001	1.162	1.492	0.737	0.930	0.426	0.756	0.001	0.194
		Left side	0.108		0.043	0.661	0.579		0.005	0.769	0.692	0.113	0.156	0.661	0.584	0.005	0.048
		Right side	0.100		0.300	0.225	0.326		0.001	0.325	0.427	0.101	0.401	0.225	0.327	0.001	0.301
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.551							0.551	0.551	0.551	0.551	0.000	0.000	0.000	0.000
WCDMA II_Ant 2		Front	0.345		0.133	0.158	0.182		0.001	0.503	0.528	0.346	0.479	0.158	0.183	0.001	0.134
		Back	0.463		0.193	0.426	0.755		0.001	0.889	1.219	0.464	0.657	0.426	0.756	0.001	0.194
		Left side	0.227		0.043	0.661	0.579		0.005	0.888	0.811	0.232	0.275	0.661	0.584	0.005	0.048
		Right side	0.806		0.300	0.225	0.326		0.001	1.031	1.133	0.807	1.107	0.225	0.327	0.001	0.301
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.176							0.176	0.176	0.176	0.176	0.000	0.000	0.000	0.000
WCDMA IV_Ant 2		Front	0.202		0.133	0.158	0.182		0.001	0.360	0.385	0.203	0.336	0.158	0.183	0.001	0.134
		Back	0.735		0.193	0.426	0.755		0.001	1.161	1.491	0.736	0.929	0.426	0.756	0.001	0.194
		Left side	0.151		0.043	0.661	0.579		0.005	0.812	0.735	0.156	0.199	0.661	0.584	0.005	0.048
		Right side	0.351		0.300	0.225	0.326		0.001	0.576	0.678	0.352	0.652	0.225	0.327	0.001	0.301
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.082							0.082	0.082	0.082	0.082	0.000	0.000	0.000	0.000
WCDMA V_Ant 4		Front	0.322		0.133	0.158	0.182		0.001	0.480	0.505	0.323	0.456	0.158	0.183	0.001	0.134
		Back	0.664		0.193	0.426	0.755		0.001	1.090	1.420	0.665	0.858	0.426	0.756	0.001	0.194
		Left side	0.196		0.043	0.661	0.579		0.005	0.857	0.780	0.201	0.244	0.661	0.584	0.005	0.048
		Right side	0.187		0.300	0.225	0.326		0.001	0.412	0.514	0.188	0.488	0.225	0.327	0.001	0.301
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.511							0.511	0.511	0.511	0.511	0.000	0.000	0.000	0.000
LTE Band 7_Ant 6	FR1 n7_Ant 6	Front	0.213	0.198	0.133	0.158	0.182		0.001	0.371	0.396	0.214	0.347	0.356	0.381	0.199	0.332
		Back	0.662	0.637	0.193	0.426	0.755		0.001	1.088	1.418	0.663	0.856	1.063	1.393	0.638	0.831
		Left side	0.914	0.916	0.043	0.661	0.579		0.005	1.575	1.498	0.919	0.962	1.577	1.500	0.921	0.964
		Right side	0.089	0.084	0.300	0.225	0.326		0.001	0.314	0.416	0.090	0.390	0.309	0.411	0.085	0.385
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.376	0.451						0.376	0.376	0.376	0.376	0.451	0.451	0.451	0.451
LTE Band 12_Ant 0	FR1 n12_Ant 0	Front	0.294	0.178	0.133	0.158	0.182		0.001	0.452	0.477	0.295	0.428	0.336	0.361	0.179	0.312
		Back	0.342	0.180	0.193	0.426	0.755		0.001	0.768	1.098	0.343	0.536	0.606	0.936	0.181	0.374
		Left side	0.170	0.081	0.043	0.661	0.579		0.005	0.831	0.754	0.175	0.218	0.742	0.665	0.086	0.129
		Right side	0.304	0.161	0.300	0.225	0.326		0.001	0.529	0.631	0.305	0.605	0.386	0.488	0.162	0.462
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.416	0.271						0.416	0.416	0.416	0.416	0.271	0.271	0.271	0.271
LTE Band 13_Ant 0	FR1 n13_Ant 0	Front	0.283	0.279	0.133	0.158	0.182		0.001	0.441	0.466	0.284	0.417	0.437	0.462	0.280	0.413
		Back	0.426	0.392	0.193	0.426	0.755		0.001	0.852	1.182	0.427	0.620	0.818	1.148	0.393	0.586
		Left side	0.096	0.121	0.043	0.661	0.579		0.005	0.757	0.680	0.101	0.144	0.782	0.705	0.126	0.169
		Right side	0.335	0.330	0.300	0.225	0.326		0.001	0.560	0.662	0.336	0.636	0.555	0.657	0.331	0.631
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.440	0.493						0.440	0.440	0.440	0.440	0.493	0.493	0.493	0.493



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LTE Band 14_Ant 0	FR1 n14_Ant 0	Front	0.334	0.347	0.133	0.158	0.182		0.001	0.492	0.517	0.335	0.468	0.505	0.530	0.348	0.481
		Back	0.385	0.371	0.193	0.426	0.755		0.001	0.811	1.141	0.386	0.579	0.797	1.127	0.372	0.565
		Left side	0.138	0.160	0.043	0.661	0.579		0.005	0.799	0.722	0.143	0.186	0.821	0.744	0.165	0.208
		Right side	0.364	0.350	0.300	0.225	0.326		0.001	0.589	0.691	0.365	0.665	0.575	0.677	0.351	0.651
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.398	0.547						0.398	0.398	0.398	0.398	0.547	0.547	0.547	0.547
LTE Band 25_Ant 2	FR1 n25_Ant 2	Front	0.330	0.324	0.133	0.158	0.182		0.001	0.488	0.513	0.331	0.464	0.482	0.507	0.325	0.458
		Back	0.510	0.435	0.193	0.426	0.755		0.001	0.936	1.266	0.511	0.704	0.861	1.191	0.436	0.629
		Left side	0.189	0.203	0.043	0.661	0.579		0.005	0.850	0.773	0.194	0.237	0.864	0.787	0.208	0.251
		Right side	0.678	0.640	0.300	0.225	0.326		0.001	0.903	1.005	0.679	0.979	0.865	0.967	0.641	0.941
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.164	0.159						0.164	0.164	0.164	0.164	0.159	0.159	0.159	0.159
LTE Band 25_Ant 4	FR1 n25_Ant 4	Front	0.103	0.149	0.133	0.158	0.182		0.001	0.261	0.286	0.104	0.237	0.307	0.332	0.150	0.283
		Back	0.632	0.758	0.193	0.426	0.755		0.001	1.058	1.388	0.633	0.826	1.184	1.514	0.759	0.952
		Left side	0.125	0.174	0.043	0.661	0.579		0.005	0.786	0.709	0.130	0.173	0.835	0.758	0.179	0.222
		Right side	0.076	0.132	0.300	0.225	0.326		0.001	0.301	0.403	0.077	0.377	0.357	0.459	0.133	0.433
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.475	0.629						0.475	0.475	0.475	0.475	0.629	0.629	0.629	0.629
LTE Band 26_Ant 4	FR1 n26_Ant 4	Front	0.274	0.363	0.133	0.158	0.182		0.001	0.432	0.457	0.275	0.408	0.521	0.546	0.364	0.497
		Back	0.455	0.461	0.193	0.426	0.755		0.001	0.881	1.211	0.456	0.649	0.887	1.217	0.462	0.655
		Left side	0.192	0.186	0.043	0.661	0.579		0.005	0.853	0.776	0.197	0.240	0.847	0.770	0.191	0.234
		Right side	0.165	0.096	0.300	0.225	0.326		0.001	0.390	0.492	0.166	0.466	0.321	0.423	0.097	0.397
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.495	0.300						0.495	0.495	0.495	0.495	0.300	0.300	0.300	0.300
LTE Band 66_Ant 2	FR1 n66_Ant 2	Front	0.168	0.185	0.133	0.158	0.182		0.001	0.326	0.351	0.169	0.302	0.343	0.368	0.186	0.319
		Back	0.744	0.725	0.193	0.426	0.755		0.001	1.170	1.500	0.745	0.938	1.151	1.481	0.726	0.919
		Left side	0.109	0.133	0.043	0.661	0.579		0.005	0.770	0.693	0.114	0.157	0.794	0.717	0.138	0.181
		Right side	0.412	0.349	0.300	0.225	0.326		0.001	0.637	0.739	0.413	0.713	0.574	0.676	0.350	0.650
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.128	0.127						0.128	0.128	0.128	0.128	0.127	0.127	0.127	0.127
LTE Band 66_Ant 4	FR1 n66_Ant 4	Front	0.254	0.195	0.133	0.158	0.182		0.001	0.412	0.437	0.255	0.388	0.353	0.378	0.196	0.329
		Back	0.477	0.352	0.193	0.426	0.755		0.001	0.903	1.233	0.478	0.671	0.778	1.108	0.353	0.546
		Left side	0.228	0.146	0.043	0.661	0.579		0.005	0.889	0.812	0.233	0.276	0.807	0.730	0.151	0.194
		Right side	0.062	0.065	0.300	0.225	0.326		0.001	0.287	0.389	0.063	0.363	0.290	0.392	0.066	0.366
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	1.121	0.970						1.121	1.121	1.121	1.121	0.970	0.970	0.970	0.970
LTE Band 71_Ant 0	FR1 n71_Ant 0	Front	0.233	0.265	0.133	0.158	0.182		0.001	0.391	0.416	0.234	0.367	0.423	0.448	0.266	0.399
		Back	0.258	0.372	0.193	0.426	0.755		0.001	0.684	1.014	0.259	0.452	0.798	1.128	0.373	0.566
		Left side	0.135	0.128	0.043	0.661	0.579		0.005	0.796	0.719	0.140	0.183	0.789	0.712	0.133	0.176
		Right side	0.240	0.256	0.300	0.225	0.326		0.001	0.465	0.567	0.241	0.541	0.481	0.583	0.257	0.557
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.310	0.274						0.310	0.310	0.310	0.310	0.274	0.274	0.274	0.274
LTE Band 41_Ant 6	FR1 n41_Ant 6	Front	0.171	0.174	0.133	0.158	0.182		0.001	0.329	0.354	0.172	0.305	0.332	0.357	0.175	0.308
		Back	0.697	0.515	0.193	0.426	0.755		0.001	1.123	1.453	0.698	0.891	0.941	1.271	0.516	0.709
		Left side	0.908	0.876	0.043	0.661	0.579		0.005	1.569	1.492	0.913	0.956	1.537	1.460	0.881	0.924
		Right side	0.102	0.079	0.300	0.225	0.326		0.001	0.327	0.429	0.103	0.403	0.304	0.406	0.080	0.380
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.341	0.343						0.341	0.341	0.341	0.341	0.343	0.343	0.343	0.343
LTE Band 48_Ant 12	FR1 n41_Ant 12	Front	0.075	0.349	0.133	0.158	0.182		0.001	0.233	0.258	0.076	0.209	0.507	0.532	0.350	0.483
		Back	0.381	0.473	0.193	0.426	0.755		0.001	0.807	1.137	0.382	0.575	0.899	1.229	0.474	0.667
		Left side	0.017	0.166	0.043	0.661	0.579		0.005	0.678	0.601	0.022	0.065	0.827	0.750	0.171	0.214
		Right side	0.851	0.824	0.300	0.225	0.326		0.001	1.076	1.178	0.852	1.152	1.049	1.151	0.825	1.125
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side	0.038	0.101						0.038	0.038	0.038	0.038	0.101	0.101	0.101	0.101
LTE Band 48_Ant 11	FR1 n41_Ant 1	Front	0.124	0.436	0.133	0.158	0.182		0.001	0.282	0.307	0.125	0.258	0.594	0.619	0.437	0.570
		Back	0.284	0.317	0.193	0.426	0.755		0.001	0.710	1.040	0.285	0.478	0.743	1.073	0.318	0.511



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		Left side	0.799	0.234	0.043	0.661	0.579		0.005	1.460	1.383	0.804	0.847	0.895	0.818	0.239	0.282
		Right side	0.001	0.137	0.300	0.225	0.326		0.001	0.226	0.328	0.002	0.302	0.362	0.464	0.138	0.438
		Top side		0.504	0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.636	0.774	0.505	0.625
		Bottom side	0.001							0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000
	FR1 n41_Ant 7	Front		0.238	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.396	0.421	0.239	0.372
		Back		0.256	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	0.682	1.012	0.257	0.450
		Left side		0.887	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	1.548	1.471	0.892	0.935
		Right side		0.071	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	0.296	0.398	0.072	0.372
		Top side		0.040	0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.172	0.310	0.041	0.161
		Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	FR1 n48_Ant 12	Front		0.064	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.222	0.247	0.065	0.198
		Back		0.620	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	1.046	1.376	0.621	0.814
		Left side		0.001	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	0.662	0.585	0.006	0.049
		Right side		1.076	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	1.301	1.403	1.077	1.377
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
	FR1 n48_Ant 11	Front		0.103	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.261	0.286	0.104	0.237
		Back		0.330	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	0.756	1.086	0.331	0.524
		Left side		0.596	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	1.257	1.180	0.601	0.644
		Right side		0.045	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	0.270	0.372	0.046	0.346
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side		0.024						0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024
	FR1 n77_Ant 12	Front		0.089	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.247	0.272	0.090	0.223
		Back		0.347	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	0.773	1.103	0.348	0.541
		Left side		0.001	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	0.662	0.585	0.006	0.049
		Right side		1.184	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	1.409	1.511	1.185	1.485
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side		0.034						0.000	0.000	0.000	0.000	0.034	0.034	0.034	0.034
	FR1 n77_Ant 11	Front		0.172	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.330	0.355	0.173	0.306
		Back		0.360	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	0.786	1.116	0.361	0.554
		Left side		0.831	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	1.492	1.415	0.836	0.879
		Right side		0.025	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	0.250	0.352	0.026	0.326
		Top side			0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.132	0.270	0.001	0.121
		Bottom side		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
	FR1 n77_Ant 5	Front		0.372	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.530	0.555	0.373	0.506
		Back		0.616	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	1.042	1.372	0.617	0.810
		Left side		0.080	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	0.741	0.664	0.085	0.128
		Right side		0.168	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	0.393	0.495	0.169	0.469
		Top side		1.000	0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	1.132	1.270	1.001	1.121
		Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	FR1 n77_Ant 3	Front		0.130	0.133	0.158	0.182		0.001	0.158	0.183	0.001	0.134	0.288	0.313	0.131	0.264
		Back		0.351	0.193	0.426	0.755		0.001	0.426	0.756	0.001	0.194	0.777	1.107	0.352	0.545
		Left side		0.001	0.043	0.661	0.579		0.005	0.661	0.584	0.005	0.048	0.662	0.585	0.006	0.049
		Right side		0.499	0.300	0.225	0.326		0.001	0.225	0.327	0.001	0.301	0.724	0.826	0.500	0.800
		Top side		0.072	0.120	0.132	0.269		0.001	0.132	0.270	0.001	0.121	0.204	0.342	0.073	0.193
		Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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<DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+3+5+7 Summed 1g SAR (W/kg)	1+3+6+7 Summed 1g SAR (W/kg)	2+4+5 Summed 1g SAR (W/kg)	2+4+6 Summed 1g SAR (W/kg)	2+3+5+7 Summed 1g SAR (W/kg)	2+3+6+7 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN 2.4GHz Ant 8	WLAN 2.4GHz Ant 9+8	WLAN 5GHz Ant 9+8	WLAN 6GHz Ant 9+8	Bluetooth Ant 9								
			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)								
GSM850_Ant 4		Front	0.241		0.072	0.123	0.113		0.001	0.477	0.364	0.427	0.314	0.236	0.123	0.186	0.073
		Back	0.368		0.104	0.334	0.440		0.001	1.142	0.702	0.913	0.473	0.774	0.334	0.545	0.105
		Left side	0.181		0.023	0.390	0.284		0.005	0.855	0.571	0.493	0.209	0.674	0.390	0.312	0.028
		Right side	0.133		0.177	0.177	0.191		0.001	0.501	0.310	0.502	0.311	0.368	0.177	0.369	0.178
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.581							0.581	0.581	0.581	0.581	0.000	0.000	0.000	0.000
GSM1900_Ant 4		Front	0.095		0.072	0.123	0.113		0.001	0.331	0.218	0.281	0.168	0.236	0.123	0.186	0.073
		Back	0.736		0.104	0.334	0.440		0.001	1.510	1.070	1.281	0.841	0.774	0.334	0.545	0.105
		Left side	0.108		0.023	0.390	0.284		0.005	0.782	0.498	0.420	0.136	0.674	0.390	0.312	0.028
		Right side	0.100		0.177	0.177	0.191		0.001	0.468	0.277	0.469	0.278	0.368	0.177	0.369	0.178
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.551							0.551	0.551	0.551	0.551	0.000	0.000	0.000	0.000
WCDMA II_Ant 2		Front	0.345		0.072	0.123	0.113		0.001	0.581	0.468	0.531	0.418	0.236	0.123	0.186	0.073
		Back	0.463		0.104	0.334	0.440		0.001	1.237	0.797	1.008	0.568	0.774	0.334	0.545	0.105
		Left side	0.227		0.023	0.390	0.284		0.005	0.901	0.617	0.539	0.255	0.674	0.390	0.312	0.028
		Right side	0.806		0.177	0.177	0.191		0.001	1.174	0.983	1.175	0.984	0.368	0.177	0.369	0.178
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.176							0.176	0.176	0.176	0.176	0.000	0.000	0.000	0.000
WCDMA IV_Ant 2		Front	0.202		0.072	0.123	0.113		0.001	0.438	0.325	0.388	0.275	0.236	0.123	0.186	0.073
		Back	0.735		0.104	0.334	0.440		0.001	1.509	1.069	1.280	0.840	0.774	0.334	0.545	0.105
		Left side	0.151		0.023	0.390	0.284		0.005	0.825	0.541	0.463	0.179	0.674	0.390	0.312	0.028
		Right side	0.351		0.177	0.177	0.191		0.001	0.719	0.528	0.720	0.529	0.368	0.177	0.369	0.178
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.082							0.082	0.082	0.082	0.082	0.000	0.000	0.000	0.000
WCDMA V_Ant 4		Front	0.322		0.072	0.123	0.113		0.001	0.558	0.445	0.508	0.395	0.236	0.123	0.186	0.073
		Back	0.664		0.104	0.334	0.440		0.001	1.438	0.998	1.209	0.769	0.774	0.334	0.545	0.105
		Left side	0.196		0.023	0.390	0.284		0.005	0.870	0.586	0.508	0.224	0.674	0.390	0.312	0.028
		Right side	0.187		0.177	0.177	0.191		0.001	0.555	0.364	0.556	0.365	0.368	0.177	0.369	0.178
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.511							0.511	0.511	0.511	0.511	0.000	0.000	0.000	0.000
LTE Band 7_Ant 6	FR1 n7_Ant 6	Front	0.213	0.198	0.072	0.123	0.113		0.001	0.449	0.336	0.399	0.286	0.434	0.321	0.384	0.271
		Back	0.662	0.637	0.104	0.334	0.440		0.001	1.436	0.996	1.207	0.767	1.411	0.971	1.182	0.742
		Left side	0.914	0.916	0.023	0.390	0.284		0.005	1.588	1.304	1.226	0.942	1.590	1.306	1.228	0.944
		Right side	0.089	0.084	0.177	0.177	0.191		0.001	0.457	0.266	0.458	0.267	0.452	0.261	0.453	0.262
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.376	0.451						0.376	0.376	0.376	0.376	0.451	0.451	0.451	0.451
LTE Band 12_Ant 0	FR1 n12_Ant 0	Front	0.294	0.178	0.072	0.123	0.113		0.001	0.530	0.417	0.480	0.367	0.414	0.301	0.364	0.251
		Back	0.342	0.180	0.104	0.334	0.440		0.001	1.116	0.676	0.887	0.447	0.954	0.514	0.725	0.285
		Left side	0.170	0.081	0.023	0.390	0.284		0.005	0.844	0.560	0.482	0.198	0.755	0.471	0.393	0.109
		Right side	0.304	0.161	0.177	0.177	0.191		0.001	0.672	0.481	0.673	0.482	0.529	0.338	0.530	0.339
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.416	0.271						0.416	0.416	0.416	0.416	0.271	0.271	0.271	0.271
LTE Band 13_Ant 0	FR1 n13_Ant 0	Front	0.283	0.279	0.072	0.123	0.113		0.001	0.519	0.406	0.469	0.356	0.515	0.402	0.465	0.352
		Back	0.426	0.392	0.104	0.334	0.440		0.001	1.200	0.760	0.971	0.531	1.166	0.726	0.937	0.497
		Left side	0.096	0.121	0.023	0.390	0.284		0.005	0.770	0.486	0.408	0.124	0.795	0.511	0.433	0.149
		Right side	0.335	0.330	0.177	0.177	0.191		0.001	0.703	0.512	0.704	0.513	0.698	0.507	0.699	0.508
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.440	0.493						0.440	0.440	0.440	0.440	0.493	0.493	0.493	0.493
LTE Band 14_Ant 0	FR1 n14_Ant 0	Front	0.334	0.347	0.072	0.123	0.113		0.001	0.570	0.457	0.520	0.407	0.583	0.470	0.533	0.420
		Back	0.385	0.371	0.104	0.334	0.440		0.001	1.159	0.719	0.930	0.490	1.145	0.705	0.916	0.476



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		Left side	0.138	0.160	0.023	0.390	0.284		0.005	0.812	0.528	0.450	0.166	0.834	0.550	0.472	0.188
		Right side	0.364	0.350	0.177	0.177	0.191		0.001	0.732	0.541	0.733	0.542	0.718	0.527	0.719	0.528
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.398	0.547						0.398	0.398	0.398	0.398	0.547	0.547	0.547	0.547
LTE Band 25_Ant 2	FR1 n25_Ant 2	Front	0.330	0.324	0.072	0.123	0.113		0.001	0.566	0.453	0.516	0.403	0.560	0.447	0.510	0.397
		Back	0.510	0.435	0.104	0.334	0.440		0.001	1.284	0.844	1.055	0.615	1.209	0.769	0.980	0.540
		Left side	0.189	0.203	0.023	0.390	0.284		0.005	0.863	0.579	0.501	0.217	0.877	0.593	0.515	0.231
		Right side	0.678	0.640	0.177	0.177	0.191		0.001	1.046	0.855	1.047	0.856	1.008	0.817	1.009	0.818
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.164	0.159						0.164	0.164	0.164	0.164	0.159	0.159	0.159	0.159
LTE Band 25_Ant 4	FR1 n25_Ant 4	Front	0.103	0.149	0.072	0.123	0.113		0.001	0.339	0.226	0.289	0.176	0.385	0.272	0.335	0.222
		Back	0.632	0.758	0.104	0.334	0.440		0.001	1.406	0.966	1.177	0.737	1.532	1.092	1.303	0.863
		Left side	0.125	0.174	0.023	0.390	0.284		0.005	0.799	0.515	0.437	0.153	0.848	0.564	0.486	0.202
		Right side	0.076	0.132	0.177	0.177	0.191		0.001	0.444	0.253	0.445	0.254	0.500	0.309	0.501	0.310
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.475	0.629						0.475	0.475	0.475	0.475	0.629	0.629	0.629	0.629
LTE Band 26_Ant 4	FR1 n26_Ant 4	Front	0.274	0.363	0.072	0.123	0.113		0.001	0.510	0.397	0.460	0.347	0.599	0.486	0.549	0.436
		Back	0.455	0.461	0.104	0.334	0.440		0.001	1.229	0.789	1.000	0.560	1.235	0.795	1.006	0.566
		Left side	0.192	0.186	0.023	0.390	0.284		0.005	0.866	0.582	0.504	0.220	0.860	0.576	0.498	0.214
		Right side	0.165	0.096	0.177	0.177	0.191		0.001	0.533	0.342	0.534	0.343	0.464	0.273	0.465	0.274
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.495	0.300						0.495	0.495	0.495	0.495	0.300	0.300	0.300	0.300
LTE Band 66_Ant 2	FR1 n66_Ant 2	Front	0.168	0.185	0.072	0.123	0.113		0.001	0.404	0.291	0.354	0.241	0.421	0.308	0.371	0.258
		Back	0.744	0.725	0.104	0.334	0.440		0.001	1.518	1.078	1.289	0.849	1.499	1.059	1.270	0.830
		Left side	0.109	0.133	0.023	0.390	0.284		0.005	0.783	0.499	0.421	0.137	0.807	0.523	0.445	0.161
		Right side	0.412	0.349	0.177	0.177	0.191		0.001	0.780	0.589	0.781	0.590	0.717	0.526	0.718	0.527
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.128	0.127						0.128	0.128	0.128	0.128	0.127	0.127	0.127	0.127
LTE Band 66_Ant 4	FR1 n66_Ant 4	Front	0.254	0.195	0.072	0.123	0.113		0.001	0.490	0.377	0.440	0.327	0.431	0.318	0.381	0.268
		Back	0.477	0.352	0.104	0.334	0.440		0.001	1.251	0.811	1.022	0.582	1.126	0.686	0.897	0.457
		Left side	0.228	0.146	0.023	0.390	0.284		0.005	0.902	0.618	0.540	0.256	0.820	0.536	0.458	0.174
		Right side	0.062	0.065	0.177	0.177	0.191		0.001	0.430	0.239	0.431	0.240	0.433	0.242	0.434	0.243
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	1.121	0.970						1.121	1.121	1.121	1.121	0.970	0.970	0.970	0.970
LTE Band 71_Ant 0	FR1 n71_Ant 0	Front	0.233	0.265	0.072	0.123	0.113		0.001	0.469	0.356	0.419	0.306	0.501	0.388	0.451	0.338
		Back	0.258	0.372	0.104	0.334	0.440		0.001	1.032	0.592	0.803	0.363	1.146	0.706	0.917	0.477
		Left side	0.135	0.128	0.023	0.390	0.284		0.005	0.809	0.525	0.447	0.163	0.802	0.518	0.440	0.156
		Right side	0.240	0.256	0.177	0.177	0.191		0.001	0.608	0.417	0.609	0.418	0.624	0.433	0.625	0.434
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.310	0.274						0.310	0.310	0.310	0.310	0.274	0.274	0.274	0.274
LTE Band 41_Ant 6	FR1 n41_Ant 6	Front	0.171	0.174	0.072	0.123	0.113		0.001	0.407	0.294	0.357	0.244	0.410	0.297	0.360	0.247
		Back	0.697	0.515	0.104	0.334	0.440		0.001	1.471	1.031	1.242	0.802	1.289	0.849	1.060	0.620
		Left side	0.908	0.876	0.023	0.390	0.284		0.005	1.582	1.298	1.220	0.936	1.550	1.266	1.188	0.904
		Right side	0.102	0.079	0.177	0.177	0.191		0.001	0.470	0.279	0.471	0.280	0.447	0.256	0.448	0.257
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.341	0.343						0.341	0.341	0.341	0.341	0.343	0.343	0.343	0.343
LTE Band 48_Ant 12	FR1 n41_Ant 12	Front	0.075	0.349	0.072	0.123	0.113		0.001	0.311	0.198	0.261	0.148	0.585	0.472	0.535	0.422
		Back	0.381	0.473	0.104	0.334	0.440		0.001	1.155	0.715	0.926	0.486	1.247	0.807	1.018	0.578
		Left side	0.017	0.166	0.023	0.390	0.284		0.005	0.691	0.407	0.329	0.045	0.840	0.556	0.478	0.194
		Right side	0.851	0.824	0.177	0.177	0.191		0.001	1.219	1.028	1.220	1.029	1.192	1.001	1.193	1.002
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side	0.038	0.101						0.038	0.038	0.038	0.038	0.101	0.101	0.101	0.101
LTE Band 48_Ant 11	FR1 n41_Ant 1	Front	0.124	0.436	0.072	0.123	0.113		0.001	0.360	0.247	0.310	0.197	0.672	0.559	0.622	0.509
		Back	0.284	0.317	0.104	0.334	0.440		0.001	1.058	0.618	0.829	0.389	1.091	0.651	0.862	0.422
		Left side	0.799	0.234	0.023	0.390	0.284		0.005	1.473	1.189	1.111	0.827	0.908	0.624	0.546	0.262
		Right side	0.001	0.137	0.177	0.177	0.191		0.001	0.369	0.178	0.370	0.179	0.505	0.314	0.506	0.315



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		Top side		0.504	0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.765	0.608	0.727	0.570
		Bottom side	0.001							0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000
	FR1 n41_Ant 7	Front		0.238	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.474	0.361	0.424	0.311
		Back		0.256	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.030	0.590	0.801	0.361
		Left side		0.887	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	1.561	1.277	1.199	0.915
		Right side		0.071	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	0.439	0.248	0.440	0.249
		Top side		0.040	0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.301	0.144	0.263	0.106
		Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	FR1 n48_Ant 12	Front		0.064	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.300	0.187	0.250	0.137
		Back		0.620	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.394	0.954	1.165	0.725
		Left side		0.001	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	0.675	0.391	0.313	0.029
		Right side		1.076	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	1.444	1.253	1.445	1.254
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
	FR1 n48_Ant 11	Front		0.103	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.339	0.226	0.289	0.176
		Back		0.330	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.104	0.664	0.875	0.435
		Left side		0.596	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	1.270	0.986	0.908	0.624
		Right side		0.045	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	0.413	0.222	0.414	0.223
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side		0.024						0.000	0.000	0.000	0.000	0.024	0.024	0.024	0.024
	FR1 n77_Ant 12	Front		0.089	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.325	0.212	0.275	0.162
		Back		0.347	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.121	0.681	0.892	0.452
		Left side		0.001	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	0.675	0.391	0.313	0.029
		Right side		1.184	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	1.552	1.361	1.553	1.362
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side		0.034						0.000	0.000	0.000	0.000	0.034	0.034	0.034	0.034
	FR1 n77_Ant 11	Front		0.172	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.408	0.295	0.358	0.245
		Back		0.360	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.134	0.694	0.905	0.465
		Left side		0.831	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	1.505	1.221	1.143	0.859
		Right side		0.025	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	0.393	0.202	0.394	0.203
		Top side			0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.261	0.104	0.223	0.066
		Bottom side		0.001						0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001
	FR1 n77_Ant 5	Front		0.372	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.608	0.495	0.558	0.445
		Back		0.616	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.390	0.950	1.161	0.721
		Left side		0.080	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	0.754	0.470	0.392	0.108
		Right side		0.168	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	0.536	0.345	0.537	0.346
		Top side		1.000	0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	1.261	1.104	1.223	1.066
		Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	FR1 n77_Ant 3	Front		0.130	0.072	0.123	0.113		0.001	0.236	0.123	0.186	0.073	0.366	0.253	0.316	0.203
		Back		0.351	0.104	0.334	0.440		0.001	0.774	0.334	0.545	0.105	1.125	0.685	0.896	0.456
		Left side		0.001	0.023	0.390	0.284		0.005	0.674	0.390	0.312	0.028	0.675	0.391	0.313	0.029
		Right side		0.499	0.177	0.177	0.191		0.001	0.368	0.177	0.369	0.178	0.867	0.676	0.868	0.677
		Top side		0.072	0.065	0.104	0.157		0.001	0.261	0.104	0.223	0.066	0.333	0.176	0.295	0.138
		Bottom side								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**16.3 Body-Worn Accessory Exposure Conditions**

<Non-DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4 Summed 1g SAR (W/kg)	1+5+7 Summed 1g SAR (W/kg)	1+6+7 Summed 1g SAR (W/kg)	1+3+7 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5+7 Summed 1g SAR (W/kg)	2+6+7 Summed 1g SAR (W/kg)	2+3+7 Summed 1g SAR (W/kg)
			WWAN	FR1	WLAN 2.4GHz Ant 8	WLAN 2.4GHz Ant 9+8	WLAN 5GHz Ant 9+8	WLAN 6GHz Ant 9+8	Bluetooth Ant 9								
			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)								
GSM850_Ant 4		Front	0.248		0.122	0.143	0.197	0.031	0.001	0.391	0.446	0.280	0.371	0.143	0.198	0.032	0.123
		Back	0.447		0.157	0.442	0.338	0.197	0.001	0.889	0.786	0.645	0.605	0.442	0.339	0.198	0.158
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.977		0.152	0.276	0.380	0.115	0.001	1.253	1.358	1.093	1.130	0.276	0.381	0.116	0.153
GSM1900_Ant 4		Front	0.096		0.122	0.143	0.197	0.031	0.001	0.239	0.294	0.128	0.219	0.143	0.198	0.032	0.123
		Back	0.561		0.157	0.442	0.338	0.197	0.001	1.003	0.900	0.759	0.719	0.442	0.339	0.198	0.158
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.994		0.152	0.276	0.380	0.115	0.001	1.270	1.375	1.110	1.147	0.276	0.381	0.116	0.153
WCDMA II_Ant 2		Front	0.269		0.122	0.143	0.197	0.031	0.001	0.412	0.467	0.301	0.392	0.143	0.198	0.032	0.123
		Back	0.486		0.157	0.442	0.338	0.197	0.001	0.928	0.825	0.684	0.644	0.442	0.339	0.198	0.158
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.657		0.152	0.276	0.380	0.115	0.001	0.933	1.038	0.773	0.810	0.276	0.381	0.116	0.153
WCDMA IV_Ant 2		Front	0.104		0.122	0.143	0.197	0.031	0.001	0.247	0.302	0.136	0.227	0.143	0.198	0.032	0.123
		Back	0.346		0.157	0.442	0.338	0.197	0.001	0.788	0.685	0.544	0.504	0.442	0.339	0.198	0.158
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.604		0.152	0.276	0.380	0.115	0.001	0.880	0.985	0.720	0.757	0.276	0.381	0.116	0.153
WCDMA V_Ant 4		Front	0.353		0.122	0.143	0.197	0.031	0.001	0.496	0.551	0.385	0.476	0.143	0.198	0.032	0.123
		Back	0.578		0.157	0.442	0.338	0.197	0.001	1.020	0.917	0.776	0.736	0.442	0.339	0.198	0.158
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.979		0.152	0.276	0.380	0.115	0.001	1.255	1.360	1.095	1.132	0.276	0.381	0.116	0.153
LTE Band 7_Ant 6	FR1 n7_Ant 6	Front	0.116	0.107	0.122	0.143	0.197	0.031	0.001	0.259	0.314	0.148	0.239	0.250	0.305	0.139	0.230
		Back	0.486	0.480	0.157	0.442	0.338	0.197	0.001	0.928	0.825	0.684	0.644	0.922	0.819	0.678	0.638
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.524	0.538	0.152	0.276	0.380	0.115	0.001	0.800	0.905	0.640	0.677	0.814	0.919	0.654	0.691
LTE Band 12_Ant 0	FR1 n12_Ant 0	Front	0.339	0.221	0.122	0.143	0.197	0.031	0.001	0.482	0.537	0.371	0.462	0.364	0.419	0.253	0.344
		Back	0.370	0.246	0.157	0.442	0.338	0.197	0.001	0.812	0.709	0.568	0.528	0.688	0.585	0.444	0.404
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.504	0.335	0.152	0.276	0.380	0.115	0.001	0.780	0.885	0.620	0.657	0.611	0.716	0.451	0.488
LTE Band 13_Ant 0	FR1 n13_Ant 0	Front	0.294	0.312	0.122	0.143	0.197	0.031	0.001	0.437	0.492	0.326	0.417	0.455	0.510	0.344	0.435
		Back	0.335	0.355	0.157	0.442	0.338	0.197	0.001	0.777	0.674	0.533	0.493	0.797	0.694	0.553	0.513
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.511	0.749	0.152	0.276	0.380	0.115	0.001	0.787	0.892	0.627	0.664	1.025	1.130	0.865	0.902
LTE Band 14_Ant 0	FR1 n14_Ant 0	Front	0.404	0.276	0.122	0.143	0.197	0.031	0.001	0.547	0.602	0.436	0.527	0.419	0.474	0.308	0.399
		Back	0.472	0.326	0.157	0.442	0.338	0.197	0.001	0.914	0.811	0.670	0.630	0.768	0.665	0.524	0.484
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.668	0.643	0.152	0.276	0.380	0.115	0.001	0.944	1.049	0.784	0.821	0.919	1.024	0.759	0.796
LTE Band 25_Ant 2	FR1 n25_Ant 2	Front	0.184	0.226	0.122	0.143	0.197	0.031	0.001	0.327	0.382	0.216	0.307	0.369	0.424	0.258	0.349
		Back	0.367	0.379	0.157	0.442	0.338	0.197	0.001	0.809	0.706	0.565	0.525	0.821	0.718	0.577	0.537
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.409	0.409	0.152	0.276	0.380	0.115	0.001	0.685	0.790	0.525	0.562	0.685	0.790	0.525	0.562
LTE Band 25_Ant 4	FR1 n25_Ant 4	Front	0.072	0.115	0.122	0.143	0.197	0.031	0.001	0.215	0.270	0.104	0.195	0.258	0.313	0.147	0.238
		Back	0.325	0.426	0.157	0.442	0.338	0.197	0.001	0.767	0.664	0.523	0.483	0.868	0.765	0.624	0.584



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		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.926	0.959	0.152	0.276	0.380	0.115	0.001	1.202	1.307	1.042	1.079	1.235	1.340	1.075	1.112
LTE Band 26_Ant 4	FR1 n26_Ant 4	Front	0.284	0.351	0.122	0.143	0.197	0.031	0.001	0.427	0.482	0.316	0.407	0.494	0.549	0.383	0.474
		Back	0.438	0.361	0.157	0.442	0.338	0.197	0.001	0.880	0.777	0.636	0.596	0.803	0.700	0.559	0.519
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.855	0.615	0.152	0.276	0.380	0.115	0.001	1.131	1.236	0.971	1.008	0.891	0.996	0.731	0.768
LTE Band 66_Ant 2	FR1 n66_Ant 2	Front	0.076	0.082	0.122	0.143	0.197	0.031	0.001	0.219	0.274	0.108	0.199	0.225	0.280	0.114	0.205
		Back	0.285	0.253	0.157	0.442	0.338	0.197	0.001	0.727	0.624	0.483	0.443	0.695	0.592	0.451	0.411
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.398	0.388	0.152	0.276	0.380	0.115	0.001	0.674	0.779	0.514	0.551	0.664	0.769	0.504	0.541
LTE Band 66_Ant 4	FR1 n66_Ant 4	Front	0.207	0.126	0.122	0.143	0.197	0.031	0.001	0.350	0.405	0.239	0.330	0.269	0.324	0.158	0.249
		Back	0.400	0.205	0.157	0.442	0.338	0.197	0.001	0.842	0.739	0.598	0.558	0.647	0.544	0.403	0.363
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.924	0.638	0.152	0.276	0.380	0.115	0.001	1.200	1.305	1.040	1.077	0.914	1.019	0.754	0.791
LTE Band 71_Ant 0	FR1 n71_Ant 0	Front	0.332	0.199	0.122	0.143	0.197	0.031	0.001	0.475	0.530	0.364	0.455	0.342	0.397	0.231	0.322
		Back	0.348	0.300	0.157	0.442	0.338	0.197	0.001	0.790	0.687	0.546	0.506	0.742	0.639	0.498	0.458
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.428	0.214	0.152	0.276	0.380	0.115	0.001	0.704	0.809	0.544	0.581	0.490	0.595	0.330	0.367
LTE Band 41_Ant 6	FR1 n41_Ant 6	Front	0.121	0.203	0.122	0.143	0.197	0.031	0.001	0.264	0.319	0.153	0.244	0.346	0.401	0.235	0.326
		Back	0.572	0.597	0.157	0.442	0.338	0.197	0.001	1.014	0.911	0.770	0.730	1.039	0.936	0.795	0.755
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.655	0.987	0.152	0.276	0.380	0.115	0.001	0.931	1.036	0.771	0.808	1.263	1.368	1.103	1.140
LTE Band 48_Ant 12	FR1 n41_Ant 12	Front	0.132	0.165	0.122	0.143	0.197	0.031	0.001	0.275	0.330	0.164	0.255	0.308	0.363	0.197	0.288
		Back	0.524	0.261	0.157	0.442	0.338	0.197	0.001	0.966	0.863	0.722	0.682	0.703	0.600	0.459	0.419
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	1.001	0.441	0.152	0.276	0.380	0.115	0.001	1.277	1.382	1.117	1.154	0.717	0.822	0.557	0.594
LTE Band 48_Ant 11	FR1 n41_Ant 1	Front	0.112	0.750	0.122	0.143	0.197	0.031	0.001	0.255	0.310	0.144	0.235	0.893	0.948	0.782	0.873
		Back	0.286	0.500	0.157	0.442	0.338	0.197	0.001	0.728	0.625	0.484	0.444	0.942	0.839	0.698	0.658
		Front with Headset		0.391						0.000	0.000	0.000	0.000	0.391	0.391	0.391	0.391
		Back with Headset	0.328		0.152	0.276	0.380	0.115	0.001	0.604	0.709	0.444	0.481	0.276	0.381	0.116	0.153
	FR1 n41_Ant 7	Front		0.297	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.440	0.495	0.329	0.420
		Back		0.188	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	0.630	0.527	0.386	0.346
		Front with Headset		0.178						0.000	0.000	0.000	0.000	0.178	0.178	0.178	0.178
		Back with Headset			0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	0.276	0.381	0.116	0.153
	FR1 n48_Ant 12	Front		0.118	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.261	0.316	0.150	0.241
		Back		0.517	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	0.959	0.856	0.715	0.675
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.974	0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	1.250	1.355	1.090	1.127
	FR1 n48_Ant 11	Front		0.169	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.312	0.367	0.201	0.292
		Back		0.435	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	0.877	0.774	0.633	0.593
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.362	0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	0.638	0.743	0.478	0.515
	FR1 n77_Ant 12	Front		0.109	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.252	0.307	0.141	0.232
		Back		0.340	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	0.782	0.679	0.538	0.498
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.994	0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	1.270	1.375	1.110	1.147
	FR1 n77_Ant 11	Front		0.271	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.414	0.469	0.303	0.394
		Back		0.615	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	1.057	0.954	0.813	0.773
		Front with								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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		Headset															
		Back with Headset		0.501	0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	0.777	0.882	0.617	0.654
	FR1 n77_Ant 5	Front		0.615	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.758	0.813	0.647	0.738
		Back		0.709	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	1.151	1.048	0.907	0.867
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.602	0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	0.878	0.983	0.718	0.755
	FR1 n77_Ant 3	Front		0.078	0.122	0.143	0.197	0.031	0.001	0.143	0.198	0.032	0.123	0.221	0.276	0.110	0.201
		Back		0.257	0.157	0.442	0.338	0.197	0.001	0.442	0.339	0.198	0.158	0.699	0.596	0.455	0.415
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.297	0.152	0.276	0.380	0.115	0.001	0.276	0.381	0.116	0.153	0.573	0.678	0.413	0.450

<DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	1+4+5 Summed 1g SAR (W/kg)	1+4+6 Summed 1g SAR (W/kg)	1+3+5+7 Summed 1g SAR (W/kg)	1+3+6+7 Summed 1g SAR (W/kg)	2+4+5 Summed 1g SAR (W/kg)	2+4+6 Summed 1g SAR (W/kg)	2+3+5+7 Summed 1g SAR (W/kg)	2+3+6+7 Summed 1g SAR (W/kg)
			WWAN 1g SAR (W/kg)	FR1 1g SAR (W/kg)	WLAN 2.4GHz Ant 8 1g SAR (W/kg)	WLAN 2.4GHz Ant 9+8 1g SAR (W/kg)	WLAN 5GHz Ant 9+8 1g SAR (W/kg)	WLAN 6GHz Ant 9+8 1g SAR (W/kg)	Bluetooth Ant 9 1g SAR (W/kg)								
GSM850_Ant 4		Front	0.248		0.067	0.090	0.109	0.031	0.001	0.447	0.369	0.425	0.347	0.199	0.121	0.177	0.099
		Back	0.447		0.086	0.300	0.256	0.197	0.001	1.003	0.944	0.790	0.731	0.556	0.497	0.343	0.284
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.977		0.082	0.187	0.288	0.119	0.001	1.452	1.283	1.348	1.179	0.475	0.306	0.371	0.202
GSM1900_Ant 4		Front	0.096		0.067	0.090	0.109	0.031	0.001	0.295	0.217	0.273	0.195	0.199	0.121	0.177	0.099
		Back	0.561		0.086	0.300	0.256	0.197	0.001	1.117	1.058	0.904	0.845	0.556	0.497	0.343	0.284
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.994		0.082	0.187	0.288	0.119	0.001	1.469	1.300	1.365	1.196	0.475	0.306	0.371	0.202
WCDMA II_Ant 2		Front	0.269		0.067	0.090	0.109	0.031	0.001	0.468	0.390	0.446	0.368	0.199	0.121	0.177	0.099
		Back	0.486		0.086	0.300	0.256	0.197	0.001	1.042	0.983	0.829	0.770	0.556	0.497	0.343	0.284
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.657		0.082	0.187	0.288	0.119	0.001	1.132	0.963	1.028	0.859	0.475	0.306	0.371	0.202
WCDMA IV_Ant 2		Front	0.104		0.067	0.090	0.109	0.031	0.001	0.303	0.225	0.281	0.203	0.199	0.121	0.177	0.099
		Back	0.346		0.086	0.300	0.256	0.197	0.001	0.902	0.843	0.689	0.630	0.556	0.497	0.343	0.284
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.604		0.082	0.187	0.288	0.119	0.001	1.079	0.910	0.975	0.806	0.475	0.306	0.371	0.202
WCDMA V_Ant 4		Front	0.353		0.067	0.090	0.109	0.031	0.001	0.552	0.474	0.530	0.452	0.199	0.121	0.177	0.099
		Back	0.578		0.086	0.300	0.256	0.197	0.001	1.134	1.075	0.921	0.862	0.556	0.497	0.343	0.284
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.979		0.082	0.187	0.288	0.119	0.001	1.454	1.285	1.350	1.181	0.475	0.306	0.371	0.202
LTE Band 7_Ant 6	FR1 n7_Ant 6	Front	0.116	0.107	0.067	0.090	0.109	0.031	0.001	0.315	0.237	0.293	0.215	0.306	0.228	0.284	0.206
		Back	0.486	0.480	0.086	0.300	0.256	0.197	0.001	1.042	0.983	0.829	0.770	1.036	0.977	0.823	0.764
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.524	0.538	0.082	0.187	0.288	0.119	0.001	0.999	0.830	0.895	0.726	1.013	0.844	0.909	0.740
LTE Band 12_Ant 0	FR1 n12_Ant 0	Front	0.339	0.221	0.067	0.090	0.109	0.031	0.001	0.538	0.460	0.516	0.438	0.420	0.342	0.398	0.320
		Back	0.370	0.246	0.086	0.300	0.256	0.197	0.001	0.926	0.867	0.713	0.654	0.802	0.743	0.589	0.530
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.504	0.335	0.082	0.187	0.288	0.119	0.001	0.979	0.810	0.875	0.706	0.810	0.641	0.706	0.537
LTE Band 13_Ant 0	FR1 n13_Ant 0	Front	0.294	0.312	0.067	0.090	0.109	0.031	0.001	0.493	0.415	0.471	0.393	0.511	0.433	0.489	0.411
		Back	0.335	0.355	0.086	0.300	0.256	0.197	0.001	0.891	0.832	0.678	0.619	0.911	0.852	0.698	0.639
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.511	0.749	0.082	0.187	0.288	0.119	0.001	0.986	0.817	0.882	0.713	1.224	1.055	1.120	0.951
LTE Band 14_Ant	FR1	Front	0.404	0.276	0.067	0.090	0.109	0.031	0.001	0.603	0.525	0.581	0.503	0.475	0.397	0.453	0.375



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0	n14_Ant 0	Back	0.472	0.326	0.086	0.300	0.256	0.197	0.001	1.028	0.969	0.815	0.756	0.882	0.823	0.669	0.610
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.668	0.643	0.082	0.187	0.288	0.119	0.001	1.143	0.974	1.039	0.870	1.118	0.949	1.014	0.845
LTE Band 25_Ant 2	FR1 n25_Ant 2	Front	0.184	0.226	0.067	0.090	0.109	0.031	0.001	0.383	0.305	0.361	0.283	0.425	0.347	0.403	0.325
		Back	0.367	0.379	0.086	0.300	0.256	0.197	0.001	0.923	0.864	0.710	0.651	0.935	0.876	0.722	0.663
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.409	0.409	0.082	0.187	0.288	0.119	0.001	0.884	0.715	0.780	0.611	0.884	0.715	0.780	0.611
LTE Band 25_Ant 4	FR1 n25_Ant 4	Front	0.072	0.115	0.067	0.090	0.109	0.031	0.001	0.271	0.193	0.249	0.171	0.314	0.236	0.292	0.214
		Back	0.325	0.426	0.086	0.300	0.256	0.197	0.001	0.881	0.822	0.668	0.609	0.982	0.923	0.769	0.710
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.926	0.959	0.082	0.187	0.288	0.119	0.001	1.401	1.232	1.297	1.128	1.434	1.265	1.330	1.161
LTE Band 26_Ant 4	FR1 n26_Ant 4	Front	0.284	0.351	0.067	0.090	0.109	0.031	0.001	0.483	0.405	0.461	0.383	0.550	0.472	0.528	0.450
		Back	0.438	0.361	0.086	0.300	0.256	0.197	0.001	0.994	0.935	0.781	0.722	0.917	0.858	0.704	0.645
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.855	0.615	0.082	0.187	0.288	0.119	0.001	1.330	1.161	1.226	1.057	1.090	0.921	0.986	0.817
LTE Band 66_Ant 2	FR1 n66_Ant 2	Front	0.076	0.082	0.067	0.090	0.109	0.031	0.001	0.275	0.197	0.253	0.175	0.281	0.203	0.259	0.181
		Back	0.285	0.253	0.086	0.300	0.256	0.197	0.001	0.841	0.782	0.628	0.569	0.809	0.750	0.596	0.537
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.398	0.388	0.082	0.187	0.288	0.119	0.001	0.873	0.704	0.769	0.600	0.863	0.694	0.759	0.590
LTE Band 66_Ant 4	FR1 n66_Ant 4	Front	0.207	0.126	0.067	0.090	0.109	0.031	0.001	0.406	0.328	0.384	0.306	0.325	0.247	0.303	0.225
		Back	0.400	0.205	0.086	0.300	0.256	0.197	0.001	0.956	0.897	0.743	0.684	0.761	0.702	0.548	0.489
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.924	0.638	0.082	0.187	0.288	0.119	0.001	1.399	1.230	1.295	1.126	1.113	0.944	1.009	0.840
LTE Band 71_Ant 0	FR1 n71_Ant 0	Front	0.332	0.199	0.067	0.090	0.109	0.031	0.001	0.531	0.453	0.509	0.431	0.398	0.320	0.376	0.298
		Back	0.348	0.300	0.086	0.300	0.256	0.197	0.001	0.904	0.845	0.691	0.632	0.856	0.797	0.643	0.584
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.428	0.214	0.082	0.187	0.288	0.119	0.001	0.903	0.734	0.799	0.630	0.689	0.520	0.585	0.416
LTE Band 41_Ant 6	FR1 n41_Ant 6	Front	0.121	0.203	0.067	0.090	0.109	0.031	0.001	0.320	0.242	0.298	0.220	0.402	0.324	0.380	0.302
		Back	0.572	0.597	0.086	0.300	0.256	0.197	0.001	1.128	1.069	0.915	0.856	1.153	1.094	0.940	0.881
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	0.655	0.987	0.082	0.187	0.288	0.119	0.001	1.130	0.961	1.026	0.857	1.462	1.293	1.358	1.189
LTE Band 48_Ant 12	FR1 n41_Ant 12	Front	0.132	0.165	0.067	0.090	0.109	0.031	0.001	0.331	0.253	0.309	0.231	0.364	0.286	0.342	0.264
		Back	0.524	0.261	0.086	0.300	0.256	0.197	0.001	1.080	1.021	0.867	0.808	0.817	0.758	0.604	0.545
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset	1.001	0.441	0.082	0.187	0.288	0.119	0.001	1.476	1.307	1.372	1.203	0.916	0.747	0.812	0.643
LTE Band 48_Ant 11	FR1 n41_Ant 1	Front	0.112	0.750	0.067	0.090	0.109	0.031	0.001	0.311	0.233	0.289	0.211	0.949	0.871	0.927	0.849
		Back	0.286	0.500	0.086	0.300	0.256	0.197	0.001	0.842	0.783	0.629	0.570	1.056	0.997	0.843	0.784
		Front with Headset		0.391						0.000	0.000	0.000	0.000	0.391	0.391	0.391	0.391
		Back with Headset	0.328		0.082	0.187	0.288	0.119	0.001	0.803	0.634	0.699	0.530	0.475	0.306	0.371	0.202
	FR1 n41_Ant 7	Front		0.297	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.496	0.418	0.474	0.396
		Back		0.188	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	0.744	0.685	0.531	0.472
		Front with Headset		0.178						0.000	0.000	0.000	0.000	0.178	0.178	0.178	0.178
		Back with Headset			0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	0.475	0.306	0.371	0.202
	FR1 n48_Ant 12	Front		0.118	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.317	0.239	0.295	0.217
		Back		0.517	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	1.073	1.014	0.860	0.801
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.974	0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	1.449	1.280	1.345	1.176
	FR1 n48_Ant 11	Front		0.169	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.368	0.290	0.346	0.268
		Back		0.435	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	0.991	0.932	0.778	0.719

		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.362	0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	0.837	0.668	0.733	0.564
	FR1 n77_Ant 12	Front		0.109	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.308	0.230	0.286	0.208
		Back		0.340	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	0.896	0.837	0.683	0.624
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.994	0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	1.469	1.300	1.365	1.196
	FR1 n77_Ant 11	Front		0.271	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.470	0.392	0.448	0.370
		Back		0.615	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	1.171	1.112	0.958	0.899
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.501	0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	0.976	0.807	0.872	0.703
	FR1 n77_Ant 5	Front		0.615	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.814	0.736	0.792	0.714
		Back		0.709	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	1.265	1.206	1.052	0.993
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.602	0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	1.077	0.908	0.973	0.804
	FR1 n77_Ant 3	Front		0.078	0.067	0.090	0.109	0.031	0.001	0.199	0.121	0.177	0.099	0.277	0.199	0.255	0.177
		Back		0.257	0.086	0.300	0.256	0.197	0.001	0.556	0.497	0.343	0.284	0.813	0.754	0.600	0.541
		Front with Headset								0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		Back with Headset		0.297	0.082	0.187	0.288	0.119	0.001	0.475	0.306	0.371	0.202	0.772	0.603	0.668	0.499

16.4 Product Specific Exposure Conditions

<Non-DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+3 Summed 10g SAR (W/kg)	2+3 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)	2+4 Summed 10g SAR (W/kg)
			WWAN 10g SAR (W/kg)	FR1 10g SAR (W/kg)	WLAN5GHz Ant 9+8 10g SAR (W/kg)	WLAN6GHz Ant 9+8 10g SAR (W/kg)				
	FR1 n41_Ant 6	Left side		2.346	1.032	0.159	1.032	3.378	0.159	2.505
LTE Band 41_Ant 6		Left side	1.457		1.032	0.159	2.489	1.032	1.616	0.159
LTE Band 48_Ant 12		Right side	1.357		0.370	0.097	1.727	0.370	1.454	0.097
	FR1 n41_Ant 7	Left side		1.590	1.032	0.159	1.032	2.622	0.159	1.749
	FR1 n48_Ant 12	Back		1.757	0.620	0.328	0.620	2.377	0.328	2.085
		Right side		2.729	0.370	0.097	0.370	3.099	0.097	2.826
	FR1 n48_Ant 11	Left side		2.639	1.032	0.159	1.032	3.671	0.159	2.798
	FR1 n77_Ant 12	Right side		2.567	0.370	0.097	0.370	2.937	0.097	2.664
	FR1 n77_Ant 11	Left side		2.749	1.032	0.159	1.032	3.781	0.159	2.908
	FR1 n77_Ant 5	Front		1.369	0.400	0.067	0.400	1.769	0.067	1.436
		Back		2.431	0.620	0.328	0.620	3.051	0.328	2.759
		Top side		2.727	0.165	0.076	0.165	2.892	0.076	2.803

<DBS>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	1+3 Summed 10g SAR (W/kg)	2+3 Summed 10g SAR (W/kg)	1+4 Summed 10g SAR (W/kg)	2+4 Summed 10g SAR (W/kg)
			WWAN 10g SAR (W/kg)	FR1 10g SAR (W/kg)	WLAN5GHz Ant 9+8 10g SAR (W/kg)	WLAN6GHz Ant 9+8 10g SAR (W/kg)				
	FR1 n41_Ant 6	Left side		2.346	0.542	0.159	0.542	2.888	0.159	2.505
LTE Band 41_Ant 6		Left side	1.457		0.542	0.159	1.999	0.542	1.616	0.159
LTE Band 48_Ant 12		Right side	1.357		0.239	0.097	1.596	0.239	1.454	0.097
	FR1 n41_Ant 7	Left side		1.590	0.542	0.159	0.542	2.132	0.159	1.749
	FR1 n48_Ant 12	Back		1.757	0.423	0.328	0.423	2.180	0.328	2.085
		Right side		2.729	0.239	0.097	0.239	2.968	0.097	2.826
	FR1 n48_Ant 11	Left side		2.639	0.542	0.159	0.542	3.181	0.159	2.798
	FR1 n77_Ant 12	Right side		2.567	0.239	0.097	0.239	2.806	0.097	2.664
	FR1 n77_Ant 11	Left side		2.749	0.542	0.159	0.542	3.291	0.159	2.908
	FR1 n77_Ant 5	Front		1.369	0.273	0.067	0.273	1.642	0.067	1.436
		Back		2.431	0.423	0.328	0.423	2.854	0.328	2.759
		Top side		2.727	0.107	0.076	0.107	2.834	0.076	2.803

17. Supplemental Antenna tuner tests results

General Note:

1. This device implements antenna tuning techniques in the several frequency band and list as below. SAR test proposal 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.
2. 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.
3. Dynamic antenna tuning mechanism is available at Ant. 0 / 4 and for its <2GHz band. In this section, all supported tuning states for each band are tested and it's verified that auto-tune state results in the highest SAR.
4. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).

17.1 Supplemental Head SAR results

Head (Ant0)	RF exposure position						Average Value of Time Sweep (W/kg)						
	Band	Mode	Channel	Test Position	Measured 1g SAR (W/kg)	Auto-Tune (State)							
							0	23	46	69	92	115	138
	LTE Band 12	10M_QPSK_1_0	M 23095	Right Cheek	0.271	111	0.164	0.117	0.202	0.183	0.021	0.240	0.174
	LTE Band 13	10M_QPSK_1_0	M 23230	Right Cheek	0.243	25	1	24	47	70	93	116	139
							0.203	0.211	0.212	0.041	0.070	0.155	0.146
	LTE Band 14	10M_QPSK_1_0	M 23330	Right Cheek	0.377	17	2	25	48	71	94	117	140
							0.137	0.175	0.156	0.299	0.194	0.232	0.365
	LTE Band 17	10M_QPSK_1_0	M 23790	Right Cheek	0.271	111	3	26	49	72	95	118	141
							0.231	0.221	0.021	0.202	0.269	0.031	0.259
	LTE Band 71	20M_QPSK_1_0	M 133297	Left Cheek	0.266	101	4	27	50	73	96	119	142
							0.245	0.159	0.226	0.216	0.054	0.093	0.245
	FR1 n12	15M_BPSK_1_1	M 141500	Right Cheek	0.204	111	5	28	51	74	97	120	143
							0.097	0.192	0.107	0.154	0.145	0.012	0.192
	FR1 n13	10M_BPSK_1_1	M 156400	Right Cheek	0.218	8	6	29	52	75	98	121	144
							0.168	0.121	0.026	0.045	0.121	0.035	0.206
	FR1 n14	10M_BPSK_25_14	M 158600	Right Cheek	0.225	25	7	30	53	76	99	122	
							0.118	0.194	0.109	0.042	0.080	0.118	
	FR1 n71	20M_BPSK_1_1	M 136100	Right Cheek	0.324	66	8	31	54	77	100	123	
							0.160	0.284	0.065	0.065	0.103	0.132	

Head (Ant4)	RF exposure position						Average Value of Time Sweep (W/kg)					
	Band	Mode	Channel		Test Position	Measured 1g SAR (W/kg)						
	GSM850	GPRS (4 Tx slots)	M	189	Left Cheek	0.302	8	9	32	55	78	101
0.233								0.243	0.119	0.243	0.033	0.195
GSM1900	GPRS (4 Tx slots)	H	810	Right Cheek	0.086	8	10	33	56	79	102	125
							0.036	0.055	0.065	0.065	0.017	0.027
WCDMA Band 5	RMC 12.2Kbps	L	4132	Left Cheek	0.294	35	11	34	57	80	103	126
							0.282	0.130	0.102	0.235	0.130	0.063
LTE Band 2	20M_QPSK_1_0	19100	H	Right Cheek	0.210	108	12	35	58	81	104	127
							0.122	0.113	0.046	0.141	0.027	0.189
LTE Band 4	20M_QPSK_1_0	20175	M	Right Cheek	0.143	108	13	36	59	82	105	128
							0.103	0.141	0.074	0.103	0.046	0.017
LTE Band 5	10M_QPSK_1_0	20525	M	Left Cheek	0.188	98	14	37	60	83	106	129
							0.167	0.110	0.100	0.072	0.176	0.119
LTE Band 25	20M_QPSK_1_0	26590	H	Right Cheek	0.210	108	15	38	61	84	107	130
							0.094	0.141	0.151	0.189	0.184	0.018
LTE Band 26	15M_QPSK_1_0	26865	M	Left Cheek	0.233	98	16	39	62	85	108	131
							0.164	0.060	0.183	0.098	0.107	0.174
LTE Band 66	20M_QPSK_1_0	132572	H	Right Cheek	0.143	108	17	40	63	86	109	132
							0.065	0.027	0.027	0.036	0.131	0.112
FR1 n2	20M_BPSK_50_28	376000	M	Right Cheek	0.159	4	18	41	64	87	110	133
							0.033	0.100	0.043	0.157	0.052	0.119
FR1 n5	20M_BPSK_50_28	167300	M	Left Cheek	0.372	98	19	42	65	88	111	134
							0.208	0.037	0.113	0.056	0.275	0.065
FR1 n25	20M_BPSK_50_28	376500	M	Right Cheek	0.159	30	20	43	66	89	112	135
							0.052	0.062	0.071	0.043	0.090	0.071
FR1 n26	20M_BPSK_50_28	166300	M	Left Cheek	0.372	17	21	44	67	90	113	136
							0.351	0.313	0.303	0.132	0.103	0.046
FR1 n66	40M_BPSK_1_1	349000	M	Left Cheek	0.031	106	22	45	68	91	114	137
							0.019	0.029	0.000	0.019	0.029	0.021

17.2 Supplemental Body SAR results

Body (Ant0)	RF exposure position						Average Value of Time Sweep (W/kg)							
	Band	Mode	Channel		Test Position	Measured 1g SAR (W/kg)								
	LTE Band 12	10M_QPSK_1_0	M	23095	Back_0mm+Soft Holster	0.394	111	0	23	46	69	92	115	138
								0.173	0.202	0.240	0.125	0.202	0.154	0.392
	LTE Band 13	10M_QPSK_1_0	M	23230	Back_0mm+Soft Holster	0.384	17	1	24	47	70	93	116	139
								0.115	0.239	0.296	0.239	0.372	0.163	0.277
	LTE Band 14	10M_QPSK_1_0	M	23330	Back_0mm+Soft Holster	0.494	17	2	25	48	71	94	117	140
								0.416	0.406	0.454	0.102	0.235	0.359	0.330
	LTE Band 17	10M_QPSK_1_0	M	23790	Back_0mm+Soft Holster	0.394	111	3	26	49	72	95	118	141
								0.268	0.382	0.297	0.354	0.316	0.144	0.182
LTE Band 71	20M_QPSK_1_0	M	133297	Back_0mm+Soft Holster	0.311	38	4	27	50	73	96	119	142	
							0.261	0.023	0.204	0.033	0.223	0.233	0.166	
FR1 n12	15M_BPSK_36_0	M	141500	Back_0mm+Soft Holster	0.294	111	5	28	51	74	97	120	143	
							0.197	0.225	0.187	0.292	0.054	0.244	0.092	
FR1 n13	10M_BPSK_1_1	M	156400	Back_0mm+Soft Holster	0.568	8	6	29	52	75	98	121	144	
							0.233	0.309	0.518	0.061	0.109	0.137	0.099	
FR1 n14	10M_BPSK_25_14	M	158600	Back_0mm+Soft Holster	0.582	25	7	30	53	76	99	122		
							0.170	0.323	0.399	0.542	0.266	0.085		
FR1 n71	20M_BPSK_1_1	M	136100	Back_10mm	0.302	66	8	31	54	77	100	123		
							0.081	0.224	0.262	0.176	0.243	0.176		

Body (Ant4)	RF exposure position							Average Value of Time Sweep (W/kg)					
	Band	Mode	Channel		Test Position	Measured 1g SAR (W/kg)	Auto-Tune (State)						
	GSM850	GPRS (4 Tx slots)	H	251	Back_0mm+Soft Holster	0.771	8	9	32	55	78	101	124
GSM1900	GPRS (4 Tx slots)	M	661	Back_0mm+Soft Holster	0.652	8	0.445	0.636	0.198	0.645	0.407	0.350	
WCDMA Band 5	RMC 12.2Kbps	M	4182	Back_0mm+Soft Holster	0.893	69	10	33	56	79	102	125	
							0.507	0.269	0.279	0.126	0.621	0.107	
LTE Band 2	20M_QPSK_1_0	L	18700	Back_0mm+Soft Holster	0.701	108	11	34	57	80	103	126	
							0.415	0.758	0.443	0.739	0.834	0.520	
LTE Band 4	20M_QPSK_1_0	L	20050	Back_0mm+Soft Holster	0.831	108	12	35	58	81	104	127	
							0.623	0.537	0.080	0.089	0.499	0.509	
LTE Band 5	10M_QPSK_1_0	M	20525	Back_0mm+Soft Holster	0.615	98	13	36	59	82	105	128	
							0.781	0.543	0.248	0.477	0.353	0.591	
LTE Band 25	20M_QPSK_1_0	L	26140	Back_0mm+Soft Holster	0.701	108	14	37	60	83	106	129	
							0.461	0.575	0.527	0.308	0.556	0.108	
LTE Band 26	15M_QPSK_1_0	M	26865	Back_0mm+Soft Holster	0.615	98	15	38	61	84	107	130	
							0.689	0.575	0.528	0.451	0.642	0.166	
LTE Band 66	20M_QPSK_1_0	L	132072	Back_0mm+Soft Holster	0.831	108	16	39	62	85	108	131	
							0.575	0.432	0.575	0.489	0.556	0.194	
FR1 n2	20M_BPSK_1_1	M	372000	Back_0mm+Soft Holster	0.877	4	17	40	63	86	109	132	
							0.600	0.410	0.724	0.391	0.629	0.800	
FR1 n5	20M_BPSK_50_28	M	167300	Back_0mm+Soft Holster	0.579	98	18	41	64	87	110	133	
							0.856	0.837	0.532	0.818	0.418	0.151	
FR1 n25	20M_BPSK_1_1	M	372000	Back_0mm+Soft Holster	0.877	30	19	42	65	88	111	134	
							0.282	0.463	0.358	0.196	0.234	0.491	
FR1 n26	20M_BPSK_50_28	M	166300	Back_0mm+Soft Holster	0.548	17	20	43	66	89	112	135	
							0.637	0.075	0.399	0.856	0.618	0.808	
FR1 n66	40M_BPSK_1_1	M	349000	Bottom Side	0.881	106	21	44	67	90	113	136	
							0.241	0.384	0.394	0.451	0.394	0.165	
							22	45	68	91	114	137	
							0.384	0.584	0.708	0.793	0.260	0.536	

Test Engineer : Mood Huang, Hank Chiang, Jay Jian, Lu Chen and Jocelyn Huang

18. Uncertainty Assessment

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Applicable for SAR Measurements:

Uncertainty Budget (4 MHz - 10 GHz range)							
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	18.60	N	2	1	1	9.3	9.3
Axial Isotropy	4.70	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.60	R	1.732	0.7	0.7	3.9	3.9
Linearity	4.70	R	1.732	1	1	2.7	2.7
Modulation Response	4.68	R	1.732	1	1	2.7	2.7
System Detection Limits	1.00	R	1.732	1	1	0.6	0.6
Boundary Effects	2.00	R	1.732	1	1	1.2	1.2
Readout Electronics	0.30	N	1	1	1	0.3	0.3
Response Time	0.00	R	1.732	1	1	0.0	0.0
Integration Time	2.60	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.00	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.00	R	1.732	1	1	1.7	1.7
Probe Positioner	0.40	R	1.732	1	1	0.2	0.2
Probe Positioning	6.70	R	1.732	1	1	3.9	3.9
Post-processing	4.00	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Holder	3.60	N	1	1	1	3.6	3.6
Test sample Positioning	3.03	N	1	1	1	3.0	3.0
Power Scaling	0.00	R	1.732	1	1	0.0	0.0
Power Drift	5.00	R	1.732	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty	7.60	R	1.732	1	1	4.4	4.4
SAR correction	0.00	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.03	N	1	0.78	0.77	0.0	0.0
Liquid Conductivity (target)	5.00	R	1.732	0.78	0.77	2.3	2.2
Liquid Conductivity (mea.)	2.50	R	1.732	0.78	0.77	1.1	1.1
Temp. unc. - Conductivity	3.68	R	1.732	0.78	0.77	1.7	1.6
Liquid Permittivity Repeatability	0.02	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.00	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.50	R	1.732	0.23	0.26	0.3	0.4
Temp. unc. - Permittivity	0.84	R	1.732	0.23	0.26	0.1	0.1
Combined Std. Uncertainty						14.5%	14.2%
Coverage Factor for 95 %						K=2	K=2
Expanded STD Uncertainty						29.0%	28.4%

Applicable for Power Density Measurements:

Error Description	Uncertainty Value (±dB)	Probability	Divisor	(Ci)	Standard Uncertainty (±dB)
Probe Calibration	0.49	N	1	1	0.49
Probe correction	0.00	R	1.732	1	0.00
Frequency response (BW ≤ 1 GHz)	0.20	R	1.732	1	0.12
Sensor cross coupling	0.00	R	1.732	1	0.00
Isotropy	0.50	R	1.732	1	0.29
Linearity	0.20	R	1.732	1	0.12
Probe scattering	0.00	R	1.732	1	0.00
Probe positioning offset	0.30	R	1.732	1	0.17
Probe positioning repeatability	0.04	R	1.732	1	0.02
Sensor mechanical offset	0.00	R	1.732	1	0.00
Probe spatial resolution	0.00	R	1.732	1	0.00
Field impedance dependance	0.00	R	1.732	1	0.00
Amplitude and phase drift	0.00	R	1.732	1	0.00
Amplitude and phase noise	0.04	R	1.732	1	0.02
Measurement area truncation	0.00	R	1.732	1	0.00
Data acquisition	0.03	N	1	1	0.03
Sampling	0.00	R	1.732	1	0.00
Field reconstruction	2.00	R	1.732	1	1.15
Forward transformation	0.00	R	1.732	1	0.00
Power density scaling	0.00	R	1.732	1	0.00
Spatial averaging	0.10	R	1.732	1	0.06
System detection limit	0.04	R	1.732	1	0.02
Uncertainty terms dep endent on the DUT and environmental factors					
Probe coupling with DUT	0.00	R	1.732	1	0.0
Modulation response	0.40	R	1.732	1	0.2
Integration time	0.00	R	1.732	1	0.0
Response time	0.00	R	1.732	1	0.0
Device holder influence	0.10	R	1.732	1	0.1
DUT alignment	0.00	R	1.732	1	0.0
RF ambient conditions	0.04	R	1.732	1	0.0
Ambient reflections	0.04	R	1.732	1	0.0
Immunity / secondary reception	0.00	R	1.732	1	0.0
Drift of the DUT		R	1.732	1	
Combined Std. Uncertainty					1.34
Expanded STD Uncertainty (95%)					2.68

19. References

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