

FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2515-1, XT2515-2, XT2515-3, XT2515V
FCC ID : IHDT56AU5
STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Si Zhang

Sporton International Inc. (Kunshan)

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Revision History

[illegible]

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2515-1, XT2515-2, XT2515-3, XT2515V**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.49	1.27	1.27	1.59
		GSM1900	0.25	1.25	1.27	
	WCDMA	WCDMA II	0.28	1.29	1.29	
		WCDMA IV	0.18	1.29	1.28	
		WCDMA V	0.35	1.29	1.29	
	LTE	LTE Band 25/2	0.84	1.29	1.27	
		LTE Band 66/4	0.91	1.29	1.28	
		LTE Band 26/5	0.82	1.27	1.27	
		LTE Band 7	0.85	1.29	1.28	
		LTE Band 12/17	0.82	1.29	1.29	
		LTE Band 13	0.84	1.28	1.28	
		LTE Band 14	0.88	1.29	0.98	
		LTE Band 30	0.52	1.29	1.11	
		LTE Band 71	0.73	1.05	1.05	
		LTE Band 41/38	0.77	1.25	1.19	
		LTE Band 48	0.90	0.62	0.89	
	5G NR	FR1 n25/n2	0.88	1.27	1.29	
		FR1 n26/n5	0.89	0.98	0.98	
		FR1 n7	0.30	1.29	1.29	
		FR1 n12	0.87	0.76	0.82	
		FR1 n14	0.73	0.89	0.89	
		FR1 n30	0.13	1.29	1.09	
		FR1 n66	0.88	1.28	1.29	
		FR1 n70	0.88	1.28	1.29	
		FR1 n71	0.83	0.86	0.86	
		FR1 n41	0.88	1.29	1.29	
		FR1 n48	0.88	1.28	1.28	
		FR1 n77/n78	0.88	1.29	1.30	
DTS	WLAN	2.4GHz WLAN	1.38	0.65	1.28	1.59
NII		5GHz WLAN	1.20	0.55	1.12	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.29	0.18	0.18	1.59

Highest 10g SAR Summary					
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)	
Licensed	GSM	GSM850	2.56	3.99	
		GSM1900	2.67		
	WCDMA	WCDMA II	3.16		
		WCDMA IV	3.21		
		WCDMA V	1.80		
	LTE	LTE Band 25/2	3.21		
		LTE Band 66/4	2.99		
		LTE Band 26/5	2.00		
		LTE Band 7	3.19		
		LTE Band 12/17	2.01		
		LTE Band 13	1.60		
		LTE Band 14	1.88		
		LTE Band 30	3.05		
		LTE Band 41/38	3.20		
		LTE Band 48	2.52		
		5G NR	FR1 n25/n2		2.63
			FR1 n7		3.21
	FR1 n30		2.99		
	FR1 n66		2.97		
	FR1 n70		2.53		
	FR1 n41		3.19		
	FR1 n48		3.15		
	FR1 n77/n78		3.17		
DTS	WLAN	WLAN2.4GHz	3.57	3.96	
NII		WLAN5GHz	1.85	3.99	
Date of Testing:			2024/9/10 ~ 2024/10/7		

Remark:

- This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41.
- This device supports 5GNR n5 / n2 / n78 and n26 / n25 / n77. Since the supported frequency span for 5GNR n5 / n2 / n78 falls completely within the supports frequency span for n26 / n25 / n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n26 / n25 / n77.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are 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.

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) 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.

2. Administration Data

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR02-KS	CN1257	314309

Applicant	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- 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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2515-1, XT2515-2, XT2515-3, XT2515V
FCC ID	IHDT56AU5
IMEI Code	IMEI1: 359673880054995 IMEI2: 359673880055000
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910 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 30: 2305 MHz ~ 2315 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 n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM

	5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC: ASK
HW Version	DVT2
SW Version	VVE35.35
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.
EUT Stage	Identical Prototype
Remark:	
1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5G NR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). 4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12. 5. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). 6. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. 7. For WLAN when transmit simultaneous with WWAN/BT, power reduction will be activated to head exposure condition. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and extremity exposure conditions. 8. For some WWAN bands, sensor on power level is higher than hotspot power level, so front/back sensor on SAR can represent hotspot conservatively. 9. LTE Band41 supports HPUE with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR. 10. This device supports HPUE for 5G NR n41/77/78 with class 2 level, HPUE power has been measured separately. For 5G NR n41/77/78 performed full SAR testing with class 2 and HPUE SAR can represent power class 3 level SAR. 11. For 5G NR bands, using FTM to perform SAR with default 100% transmission. 12. This device has NFC function and the NFC SAR report will be separately submitted. 13. The four model names are only for different market purpose, and all the others are the same. 14. This device supports 5G NR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.	

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n12	FDD	15	5, 10, 15
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																							
FCC ID	IHDT56AU5																																																																						
Equipment Name	Mobile Cellular Phone																																																																						
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 30: 2305 MHz ~ 2315 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 30: 5MHz, 10MHz 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 Release Version	R15																																																																						
CA Support	Supported, Uplink and Downlink																																																																						
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>	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
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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	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.																																																																						
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.																																																																						
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 2 carriers in the downlink and 2 carriers in the uplink.																																																																						

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					
	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				
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5				
H	20643	848.3	20635	847.5	20625	846.5	20600	844				
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510				
M	21100	2535	21100	2535	21100	2535	21100	2535				
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560				
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704				
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5				
H	23173	715.3	23165	714.5	23155	713.5	23130	711				
LTE Band 13												
	Bandwidth 5 MHz		Bandwidth 10 MHz									
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23205	779.5			23230	782						
M	23230	782										
H	23255	784.5										
LTE Band 14												
	Bandwidth 5 MHz		Bandwidth 10 MHz									
	Channel #	Channel #	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23305	790.5			23330	793						
M	23330	793										
H	23355	795.5										
LTE Band 17												
	Bandwidth 5 MHz		Bandwidth 10 MHz									
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23755	706.5			23780	709						
M	23790	710			23790	710						
H	23825	713.5			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			
	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		
M	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		

LTE Band 30				
	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	27685	2307.5	27710	2310
M	27710	2310		
H	27735	2312.5		

LTE Band 38								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610

LTE Band 41								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680

LTE Band 66												
Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770

LTE Band 71								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133147	665.5	133172	668	133197	670.5	133222	673
M	133247	675.5	133272	678	133297	680.5	133322	683
H	133447	695.5	133422	693	133397	690.5	133372	688

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
MH	56170	3643	56165	3642.5	56160	3642	56150	3641
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690

<For LTE Overlap Bands Description>
1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Band	Antenna	Head	Bodyworn	Hotspot	Extremity	Sensor Off	Default
		ECI 2	ECI 3	ECI 7	ECI 6	ECI 4	
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 66(4)	Ant 1	24	20.8	19.8	23	24	24
LTE Band 66(4)	Ant 4	15.9	17.8	13	16.7	22	22
LTE Band 66(4) Other PA	Ant 4	17.5	19.5	15	20.5	24	24
LTE Band 12(17)	Ant 0	24	24	24	24	24	24
LTE Band 12(17)	Ant 4	20.9	22.6	20.9	24	24	24
LTE Band 26(5)	Ant 0	24	23.2	23.2	24	24	24
LTE Band 26(5)	Ant 4	20.6	20.6	19.1	24	24	24
LTE Band 41(38)	Ant 1	24	23.2	21.9	23.2	24	24
LTE Band 41 HPUE	Ant 1	27	24.8	23.5	24.8	27	27
LTE Band 25(2)	Ant 1	24	21	19.9	23.2	24	24
LTE Band 25(2)	Ant 4	15.6	16.9	12	17.6	22	22
LTE Band 25(2) Other PA	Ant 4	17.5	18.5	13.5	19	24	24

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
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 n14: 788 MHz ~ 798 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n70: 1695 MHz ~ 1710 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
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 B4/5/7/12/13/14/30/48/66
LTE Anchor Bands for n5	LTE B2/4/7/30/48/66
LTE Anchor Bands for n7	LTE B2/4/5/12/66
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B7/12/26/66
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/30/48/71
LTE Anchor Bands for n71	LTE B2/7/48/66
LTE Anchor Bands for n41	LTE B2/4/5/12/25/26/66/71
LTE Anchor Bands for n48	LTE B5/71
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/25/26/30/66/71
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/25/66/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band															
NR Band 2															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
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 370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M 376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H 381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378500	1892.5	378000	1890

NR Band 5								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 50MHz	
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 500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	503500	2517.5	504000	2520	505000	2525
M 507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H 513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510500	2552.5	510000	2550	509000	2545

NR Band 12						
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	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 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		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000

NR Band 26							
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #
L	163300	816.5	163800	819	164300	821.5	164800
M	166300	831.5	166300	831.5	166300	831.5	166300
H	169300	846.5	168800	844	168300	841.5	167800

NR Band 30					
Bandwidth 5MHz			Bandwidth 10MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	461500	2307.5	462000	2310	
M	462000	2310			
H	462500	2312.5			

NR Band 66															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000

NR Band 70					
Bandwidth 5MHz			Bandwidth 10MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	339500	1697.5	340000	1700	340500
M	340500	1702.5	340500	1702.5	
H	341500	1707.5	341000	1705	

NR Band 71															
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #
L	133100	665.5	133600	668	134100	670.5	134600	673	135100	675.5	135600	678			
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100
H	139100	695.5	138600	693	138100	690.5	137600	688	137100	685.5	136600	683			

NR Band 41																	
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz	
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	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204
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	518598
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998

NR Band48																	
Bandwidth 10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz	
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	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	637834	3567.51	638334	3575.01	638668	3580.02	639000	3585	639334
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666
H	646332	3694.98	646166	3692.49	646000	3690	645666	3684.99	645500	3682.5	645000	3675	644666	3669.99	644332	3664.98	644000



NR Band 77																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	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	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664834	3972.51	664668	3970.02	664500	3967.50	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	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	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652834	3792.51	652668	3790.02	652500	3787.5	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

For <3450 MHz ~ 3550 MHz >

NR Band 77																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78																								
Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz		
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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

<For NR Overlap Bands Description>
1) NR Bands BW

Band	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35MHz	40 MHz	45 MHz	50 MHz	60 MHz	70 MHz	80 MHz	90 MHz	100MHz
FR1 n5	Yes	Yes	Yes	Yes											
FR1 n26	Yes	Yes	Yes	Yes											
FR1 n77		Yes	Yes	Yes		Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes
FR1 n78		Yes	Yes	Yes		Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes
FR1 n2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
FR1 n25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							

2) NR Bands Tune up:

Band	Antenna	Head	Bodyworn	Hotspot	Extremity	Sensor Off	Default
		ECI 2	ECI 3	ECI 7	ECI 6	ECI 4	
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-upLimit
FR1 n25(2)	Ant1	24	23.3	21.8	24	24	24
FR1 n2 Other PA	Ant1	24	23.3	21.8	24	24	24
FR1 n25(2)	Ant4	16	18.5	14	18.5	22	22
FR1 n25(2) Other PA	Ant4	17.9	19.8	15.1	19.8	24	24
FR1 n25(2) Other Path	Ant4	17.9	19.8	15.1	19.8	24	24
FR1 n26(5)	Ant0	24	24	24	24	24	24
FR1 n26(5)	Ant4	22.9	23	21.9	24	24	24
FR1 n77(78) PC3	Ant3	17	13.7	12.7	17.5	24	24
FR1 n77(78) PC2	Ant3	17	13.7	12.7	17.5	25.5	27
FR1 n77(78) PC3	Ant5	18	16.6	15.2	18	18	18
FR1 n77(78) PC2	Ant5	20.1	16.6	15.2	21	21	21
FR1 n77(78) PC3	Ant9	25	20.2	17.7	20.2	20.2	25
FR1 n77(78) PC2	Ant9	28	20.2	17.7	20.2	20.2	28
FR1 n77(78) PC3	Ant7	18	17.3	14.8	18	18	18
FR1 n77(78) PC2	Ant7	18	17.3	14.8	21	21	21

5. TA-SAR feature for RF Exposure compliance

WWAN bands are all enabled with MediaTek TA-SAR feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time.

Note that WLAN operations are not enabled with TA-SAR feature.

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

The P_{limit} values correspond to SAR_{design_target}. The power will be fixed at the static reduce power level at different exposure conditions for RF exposure compliance. For the GSM (TDD) P_{limit} power levels in the table correspond to the burst average power levels which don't account for TX duty cycle.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for TA-SAR algorithm. SAR char will be entered via the MediaTek's NV suggestion to enable the TA-SAR Feature.

<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 SAR limit to account for all device design related uncertainty.
SAR char	P _{limit} for all the technologies/bands for all applicable ECI

<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 TA-SAR to control and manage RF exposure for $f < 6\text{ GHz}$.

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

To account for total uncertainty, SAR_{design_target} should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

The TA-SAR algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

TA-SAR allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit.

<Plimit for supported technologies and bands >

Band	Antenna	Head ECI2	Bodyworn ECI3	Hotspot ECI7	Extremity ECI6	Sensor off ECI4	Pmax*
GSM850	Ant0	30.6	23.1	23.1	27.4	26.5	26.5
GSM1900	Ant1	29.6	20.9	18.9	23.2	22.5	22.5
WCDMA II	Ant1	29.6	20.0	18.7	21.7	23.0	23.0
WCDMA IV	Ant1	31.6	19.1	18.3	21.8	23.0	23.0
WCDMA V	Ant0	28.7	21.7	21.7	25.5	23.0	23.0
LTE Band 25(2)	Ant1	30.9	20.0	18.9	22.2	23.0	23.0
LTE Band 25(2)	Ant4	14.6	15.9	11.0	16.6	21.0	21.0
LTE Band 25(2) Other PA	Ant4	16.5	17.5	12.5	18.0	23.0	23.0
LTE Band 66(4)	Ant1	30.9	19.8	18.8	22.0	23.0	23.0
LTE Band 66(4)	Ant4	14.9	16.8	12.0	15.7	21.0	21.0
LTE Band 66(4) Other PA	Ant4	16.5	18.5	14.0	19.5	23.0	23.0
LTE Band 26(5)	Ant0	28.5	22.2	22.2	25.0	23.0	23.0
LTE Band 26(5)	Ant4	19.6	19.6	18.1	24.5	23.0	23.0
LTE Band 7	Ant1	28.9	20.8	17.8	19.9	23.0	23.0
LTE Band 7	Ant4	22.5	24.2	18.8	24.8	23.0	23.0
LTE Band 12(17)	Ant0	29.8	23.0	23.0	25.0	23.0	23.0
LTE Band 12(17)	Ant4	19.9	21.6	19.9	26.0	23.0	23.0
LTE Band 13	Ant0	29.0	23.0	23.0	26.0	23.0	23.0
LTE Band 13	Ant4	19.9	21.6	19.9	26.4	23.0	23.0
LTE Band 14	Ant0	29.3	24.2	23.0	25.3	23.0	23.0
LTE Band 14	Ant4	20.6	21.6	20.4	25.9	23.0	23.0
LTE Band 30	Ant1	30.8	23.6	20.7	23.2	23.0	23.0
LTE Band 30 Other PA	Ant4	25.3	26.5	21.7	23.0	23.0	23.0
LTE Band 71	Ant0	30.2	23.9	23.9	26.7	23.0	23.0
LTE Band 71	Ant4	23.8	24.2	23.0	23.0	23.0	23.0
LTE Band 41(38) PC3	Ant1	28.9	20.2	18.9	20.2	22.4	21.0
LTE Band 41 PC2	Ant1	28.9	20.2	18.9	20.2	22.4	22.4
LTE Band 41 PC3	Ant4	16.1	16.1	10.2	20.3	18.4	17.0
LTE Band 41 PC2	Ant4	16.1	16.1	10.2	20.3	18.4	18.4
LTE Band 41 PC3	Ant0	31.1	21.6	21.6	22.6	21.4	20.0
LTE Band 41 PC2	Ant0	31.1	21.6	21.6	22.6	21.4	21.4
LTE Band 41 PC3	Ant10	31.3	16.9	15.5	19.4	19.4	18.0
LTE Band 41 PC2	Ant10	31.3	16.9	15.5	19.4	19.4	19.4
LTE Band 48	Ant3	18.4	13.3	11.1	16.8	21.0	21.0
FR1 n25(2)	Ant1	32.1	22.3	20.8	24.1	23.0	23.0
FR1 n2 Other PA	Ant1	32.1	22.3	20.8	24.1	23.0	23.0
FR1 n25(2)	Ant4	15.0	17.5	13.0	17.5	21.0	21.0
FR1 n25(2) Other PA	Ant4	16.9	18.8	14.1	18.8	23.0	23.0
FR1 n25(2) Other Path	Ant4	16.9	18.8	14.1	18.8	23.0	23.0
FR1 n26(5)	Ant0	30.8	24.2	24.2	23.0	23.0	23.0
FR1 n26(5)	Ant4	21.9	22.0	20.9	27.0	23.0	23.0
FR1 n7	Ant1	29.4	22.2	19.2	21.0	23.0	23.0
FR1 n12	Ant0	32.0	25.3	25.3	23.0	23.0	23.0
FR1 n12	Ant4	22.5	22.5	21.4	23.0	23.0	23.0
FR1 n14	Ant0	31.5	24.6	24.6	23.0	23.0	23.0
FR1 n14	Ant4	22.5	23.1	21.7	23.0	23.0	23.0
FR1 n30	Ant1	33.0	23.7	20.1	22.5	23.0	23.0
FR1 n66	Ant1	32.4	21.5	20.1	23.3	23.0	23.0



FR1 n66	Ant4	15.5	15.5	12.5	18.5	21.0	21.0
FR1 n66 Other PA	Ant4	18.0	17.7	14.6	20.5	23.0	23.0
FR1 n66 Other Path	Ant4	18.0	17.7	14.6	20.5	23.0	23.0
FR1 n70	Ant1	32.5	22.0	20.6	24.0	23.0	23.0
FR1 n70	Ant4	17.0	17.4	15.4	20.5	21.0	21.0
FR1 n71	Ant0	32.0	24.8	24.8	23.0	23.0	23.0
FR1 n71	Ant4	23.3	24.7	23.1	23.0	23.0	23.0
FR1 n41 PC3	Ant1	30.5	20.8	19.8	21.0	26.0	23.0
FR1 n41 PC2	Ant1	30.5	20.8	19.8	21.0	26.0	26.0
FR1 n41 PC3	Ant4	17.0	18.2	12.8	19.9	22.0	19.0
FR1 n41 PC2	Ant4	17.0	18.2	12.8	19.9	22.0	22.0
FR1 n41 PC3	Ant0	30.3	23.1	23.1	24.0	25.0	22.0
FR1 n41 PC2	Ant0	30.3	23.1	23.1	24.0	25.0	25.0
FR1 n41 PC3	Ant10	33.4	19.2	17.6	20.3	20.3	20.0
FR1 n41 PC2	Ant10	33.4	19.2	17.6	20.3	20.3	23.0
FR1 n48	Ant3	18.0	14.3	13.3	17.0	23.0	23.0
FR1 n48	Ant5	19.1	15.9	14.4	23.8	23.8	17.0
FR1 n48	Ant9	29.6	20.3	17.9	21.0	21.0	23.5
FR1 n48	Ant7	19.8	16.5	14.7	22.0	17.0	17.0
FR1 n77(78) PC3	Ant3	16.0	12.7	11.7	16.5	24.5	23.0
FR1 n77(78) PC2	Ant3	16.0	12.7	11.7	16.5	24.5	26.0
FR1 n77(78) PC3	Ant5	19.1	15.6	14.2	23.4	23.4	17.0
FR1 n77(78) PC2	Ant5	19.1	15.6	14.2	23.4	23.4	20.0
FR1 n77(78) PC3	Ant9	29.6	19.2	16.7	19.2	19.2	24.0
FR1 n77(78) PC2	Ant9	29.6	19.2	16.7	19.2	19.2	27.0
FR1 n77(78) PC3	Ant7	17.0	16.3	13.8	21.0	20.0	17.0
FR1 n77(78) PC2	Ant7	17.0	16.3	13.8	21.0	20.0	20.0

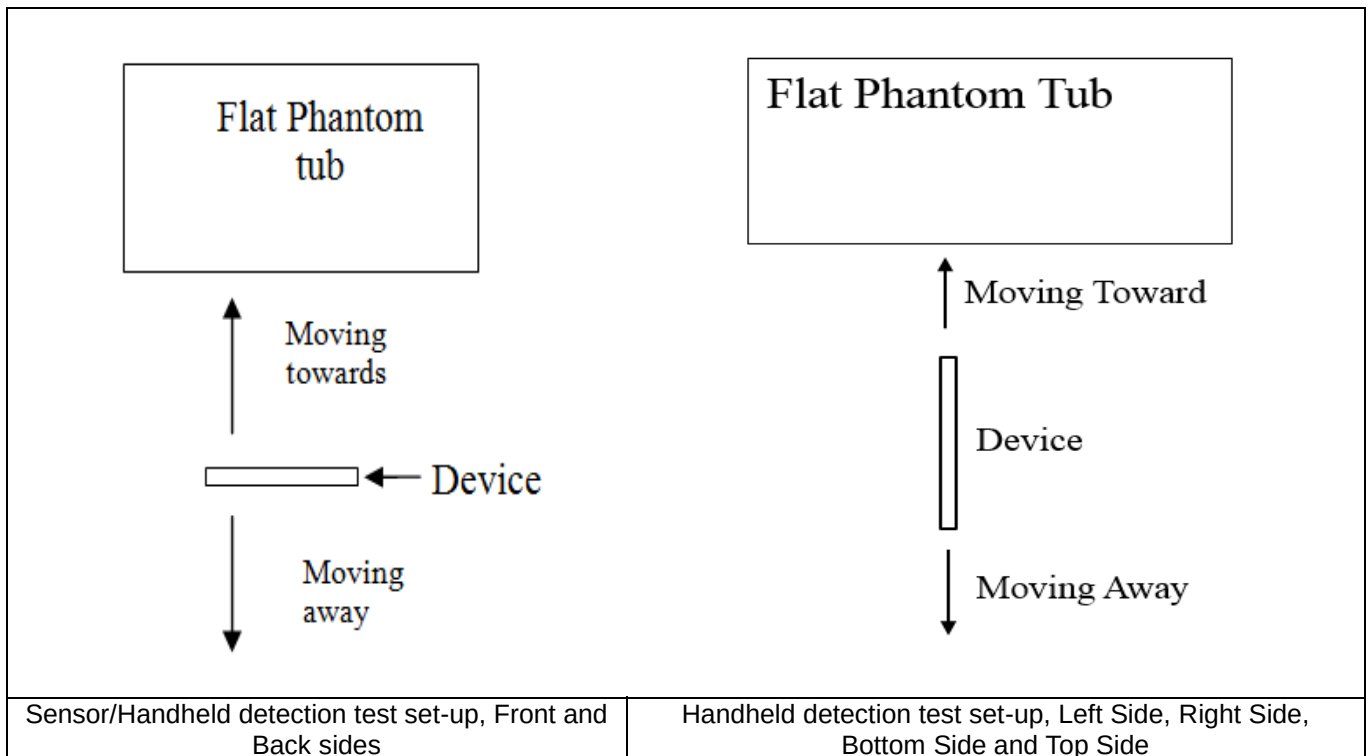
Note:

- 1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1.0 dB device uncertainty.
- 2) All Plimit 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).
- 3) The max allowed output power is the Plimit + 1.0 dB device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5850MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	12	16	21	26

<Handheld for ANT 0>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	12	17	14	19	14	19	12	18

<Handheld for ANT1>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	12	8	14	12	17

<Handheld for ANT 2&3>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	4	9	12	17	13	18

<Handheld for ANT4>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	12	14	19	5	9	15	20

<Handheld for ANT 6&7>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	12	10	15	12	16	10	15

7. RF Exposure Limits

7.1 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.

7.2 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

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.

8. Specific Absorption Rate (SAR)

8.1 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.

8.2 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:

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

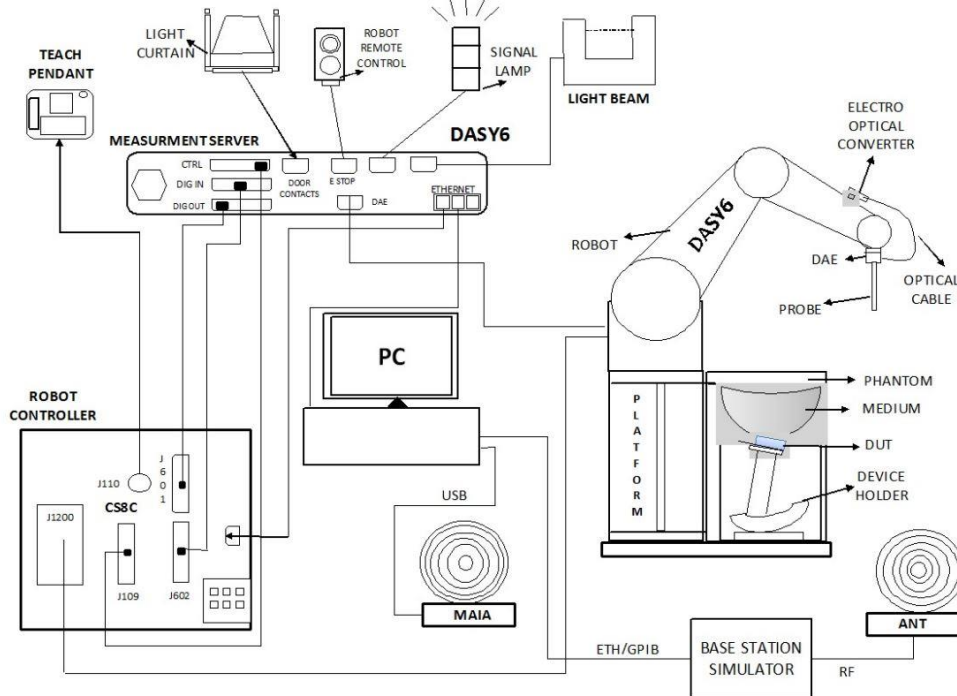
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 or Win10 and the DASY5 or DASY6 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.

9.1 E-Field Probe

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

<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	4 MHz – 10 GHz Linearity: ± 0.2 dB (30 MHz – 10 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	

9.2 Data Acquisition Electronics (DAE)

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

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



Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

10.1 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

10.2 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.

10.3 Area Scan

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

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

	≤ 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: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 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.	

10.4 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 *reported* SAR from the *area scan based 1-g SAR estimation* 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.

10.5 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.

10.6 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.

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2025/2/22
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2023/8/21	2026/8/20
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2024/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2024/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2024/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1303	2023/11/20	2024/11/19
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2024/1/22	2025/1/21
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	NCR	NCR
Testo	Thermo-Hygrometer	HTC-1	55011	2024/1/4	2025/1/3
CHIGO	Thermo-Hygrometer	HTC-1	55010	2024/1/4	2025/1/3
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Rohde & Schwarz	Vector Signal Generator	SMBV100A	258305	2024/1/2	2025/1/1
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2024/2/16	2025/2/15
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2023/10/11	2024/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2024/1/4	2025/1/3
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

12. System Verification

12.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.2.

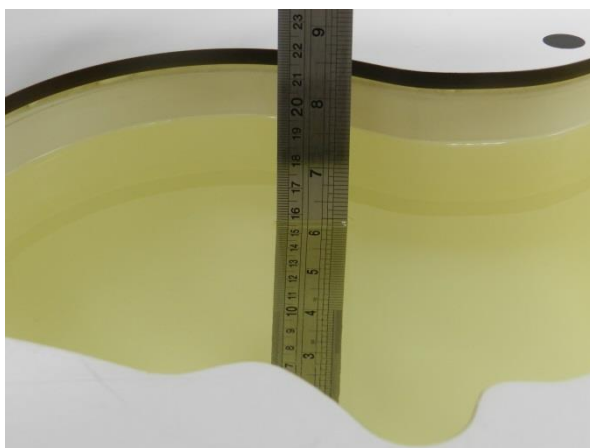


Fig 11.1 Photo of Liquid Height for Head SAR



Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
750	Head	22.6	0.889	42.282	0.89	41.90	-0.11	0.91	±5	2024/9/10
835	Head	22.7	0.912	41.936	0.90	41.50	1.33	1.05	±5	2024/9/11
1750	Head	22.6	1.317	40.225	1.37	40.10	-3.87	0.31	±5	2024/9/12
1900	Head	22.9	1.407	40.215	1.40	40.00	0.50	0.54	±5	2024/9/13
2300	Head	22.8	1.653	39.657	1.67	39.50	-1.02	0.40	±5	2024/9/14
2600	Head	22.7	2.030	40.355	1.96	39.00	3.57	3.47	±5	2024/9/15
3500	Head	22.8	2.813	38.735	2.91	37.90	-3.33	2.20	±5	2024/9/16
3700	Head	22.8	2.991	38.382	3.12	37.70	-4.13	1.81	±5	2024/9/17
3900	Head	22.6	3.175	38.058	3.32	37.50	-4.37	1.49	±5	2024/9/18
750	Head	22.8	0.889	42.281	0.89	41.90	-0.11	0.91	±5	2024/9/19
835	Head	22.6	0.912	41.949	0.90	41.50	1.33	1.08	±5	2024/9/20
1750	Head	22.7	1.317	40.224	1.37	40.10	-3.87	0.31	±5	2024/9/21
1900	Head	22.7	1.407	40.212	1.40	40.00	0.50	0.53	±5	2024/9/22
2300	Head	22.6	1.653	39.655	1.67	39.50	-1.02	0.39	±5	2024/9/23
2600	Head	22.7	2.030	40.344	1.96	39.00	3.57	3.45	±5	2024/9/24
3500	Head	22.8	2.810	38.711	2.91	37.90	-3.44	2.14	±5	2024/9/25
3700	Head	22.7	2.988	38.359	3.12	37.70	-4.23	1.75	±5	2024/9/26
3900	Head	22.8	3.171	38.036	3.32	37.50	-4.49	1.43	±5	2024/9/27
2450	Head	22.8	1.744	39.267	1.80	39.20	-3.11	0.17	±5	2024/9/29
5250	Head	22.5	4.573	35.720	4.71	35.90	-2.91	-0.50	±5	2024/10/1
5600	Head	22.7	4.997	35.371	5.07	35.50	-1.44	-0.36	±5	2024/10/4
5750	Head	22.6	5.105	34.869	5.22	35.40	-2.20	-1.50	±5	2024/10/7

12.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2024/9/10	750	Head	50	1087	3857	1303	0.462	8.58	9.24	7.69
2024/9/11	835	Head	50	4d298	3857	1303	0.477	9.89	9.54	-3.54
2024/9/12	1750	Head	50	1090	3857	1303	1.770	37.00	35.4	-4.32
2024/9/13	1900	Head	50	5d118	3857	1303	1.850	39.30	37	-5.85
2024/9/14	2300	Head	50	1055	3857	1303	2.290	48.40	45.8	-5.37
2024/9/15	2600	Head	50	1112	3857	1303	2.690	55.10	53.8	-2.36
2024/9/16	3500	Head	50	1037	3857	1303	3.120	65.40	62.4	-4.59
2024/9/17	3700	Head	50	1008	3857	1303	3.170	67.20	63.4	-5.65
2024/9/18	3900	Head	50	1048	3857	1303	3.650	69.10	73	5.64
2024/9/19	750	Head	50	1087	3857	1303	0.447	8.58	8.94	4.20
2024/9/20	835	Head	50	4d298	3857	1303	0.486	9.89	9.72	-1.72
2024/9/21	1750	Head	50	1090	3857	1303	1.930	37.00	38.6	4.32
2024/9/22	1900	Head	50	5d118	3857	1303	1.960	39.30	39.2	-0.25
2024/9/23	2300	Head	50	1055	3857	1303	2.290	48.40	45.8	-5.37
2024/9/24	2600	Head	50	1112	3857	1303	2.870	55.10	57.4	4.17
2024/9/25	3500	Head	50	1037	3857	1303	3.350	65.40	67	2.45
2024/9/26	3700	Head	50	1008	3857	1303	3.500	67.20	70	4.17
2024/9/27	3900	Head	50	1048	3857	1303	3.260	69.10	65.2	-5.64
2024/9/29	2450	Head	50	1095	3857	1303	2.670	52.60	53.4	1.52
2024/10/1	5250	Head	50	1113	3857	1303	4.170	81.50	83.4	2.33
2024/10/4	5600	Head	50	1113	3857	1303	4.420	82.60	88.4	7.02
2024/10/7	5750	Head	50	1113	3857	1303	4.080	80.80	81.6	0.99

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/9/10	750	Head	50	1087	3857	1303	0.298	5.65	5.96	5.49
2024/9/11	835	Head	50	4d298	3857	1303	0.313	6.45	6.26	-2.95
2024/9/12	1750	Head	50	1090	3857	1303	0.946	19.50	18.92	-2.97
2024/9/13	1900	Head	50	5d118	3857	1303	0.956	20.40	19.12	-6.27
2024/9/14	2300	Head	50	1055	3857	1303	1.100	23.70	22	-7.17
2024/9/15	2600	Head	50	1112	3857	1303	1.240	24.80	24.8	0.00
2024/9/16	3500	Head	50	1037	3857	1303	1.200	24.70	24	-2.83
2024/9/17	3700	Head	50	1008	3857	1303	1.190	24.40	23.8	-2.46
2024/9/18	3900	Head	50	1048	3857	1303	1.230	24.10	24.6	2.07
2024/9/19	750	Head	50	1087	3857	1303	0.302	5.65	6.04	6.90
2024/9/20	835	Head	50	4d298	3857	1303	0.326	6.45	6.52	1.09
2024/9/21	1750	Head	50	1090	3857	1303	1.010	19.50	20.2	3.59
2024/9/22	1900	Head	50	5d118	3857	1303	1.060	20.40	21.2	3.92
2024/9/23	2300	Head	50	1055	3857	1303	1.100	23.70	22	-7.17
2024/9/24	2600	Head	50	1112	3857	1303	1.320	24.80	26.4	6.45
2024/9/25	3500	Head	50	1037	3857	1303	1.310	24.70	26.2	6.07
2024/9/26	3700	Head	50	1008	3857	1303	1.280	24.40	25.6	4.92
2024/9/27	3900	Head	50	1048	3857	1303	1.130	24.10	22.6	-6.22
2024/9/29	2450	Head	50	1095	3857	1303	1.260	24.70	25.2	2.02
2024/10/1	5250	Head	50	1113	3857	1303	1.220	23.30	24.4	4.72
2024/10/4	5600	Head	50	1113	3857	1303	1.200	23.70	24	1.27
2024/10/7	5750	Head	50	1113	3857	1303	1.180	23.00	23.6	2.61

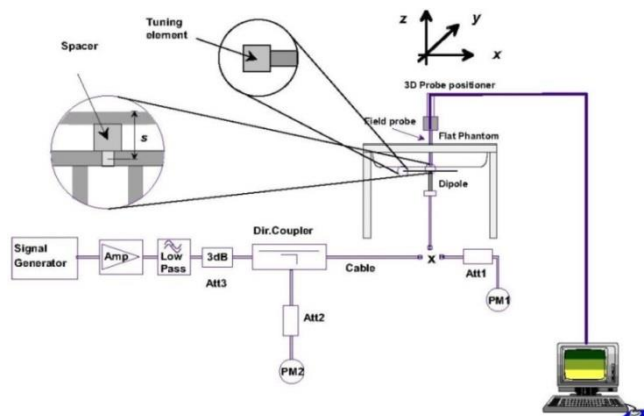

Fig 11.3.1 System Performance Check Setup

Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

Figure 12.1.1 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 12.1.2 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 12.1.3). 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 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

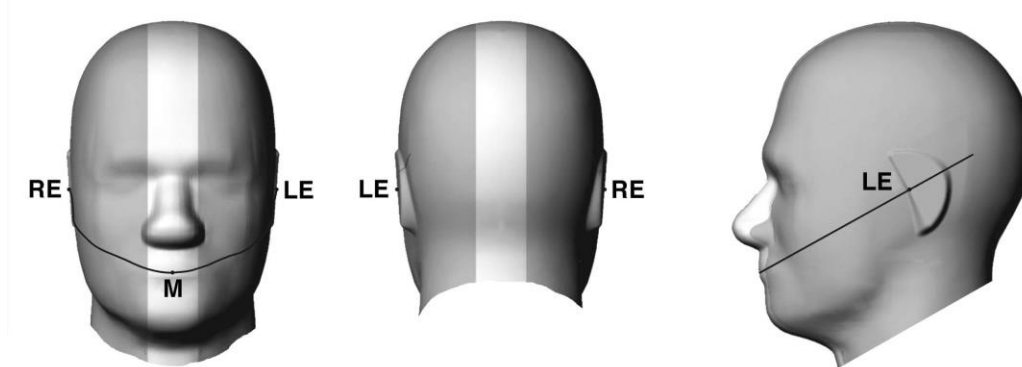


Fig 12.1.1 Front, back, and side views of SAM twin phantom

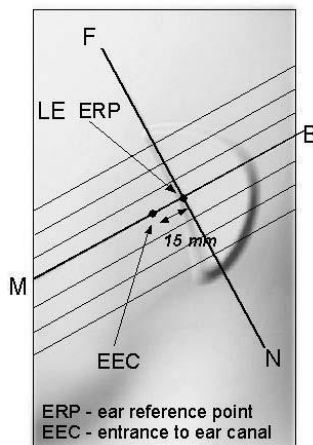


Fig 12.1.2 Close-up side view of phantom showing the ear region.

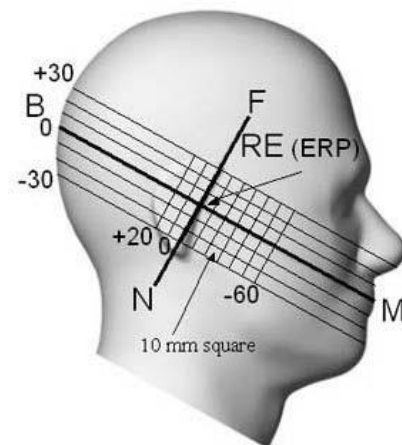


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 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 12.2.1 and Figure 12.2.2), 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 12.2.1). 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 12.2.2), 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 12.2.3), 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 12.2.3. The actual rotation angles should be documented in the test report.

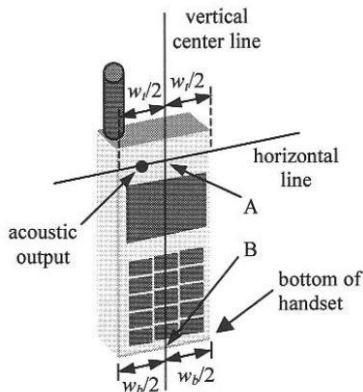


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

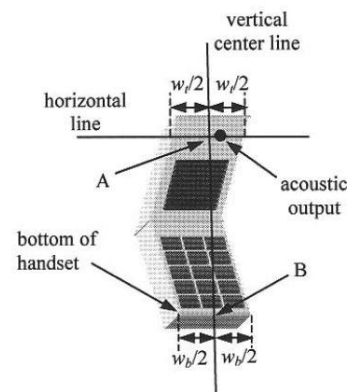


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

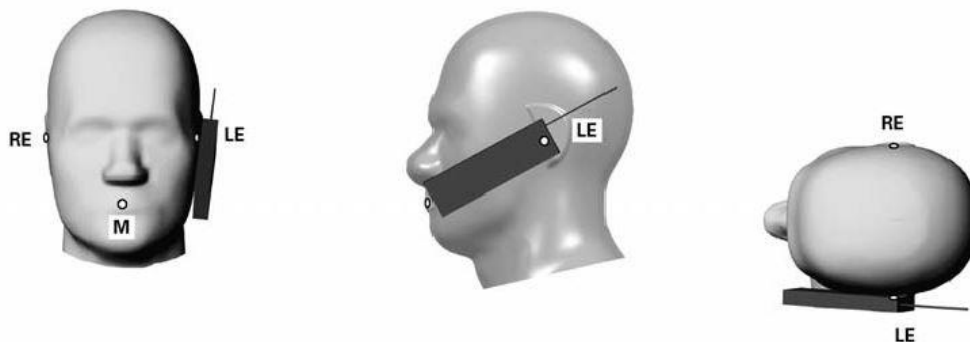


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 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 12.3.1. 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

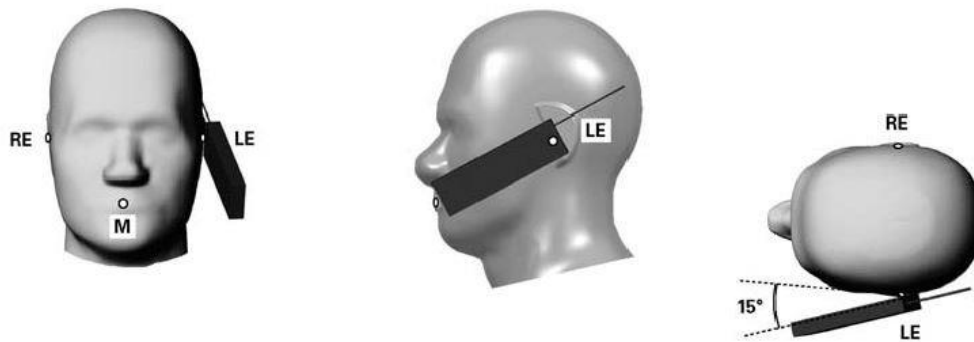


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 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 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

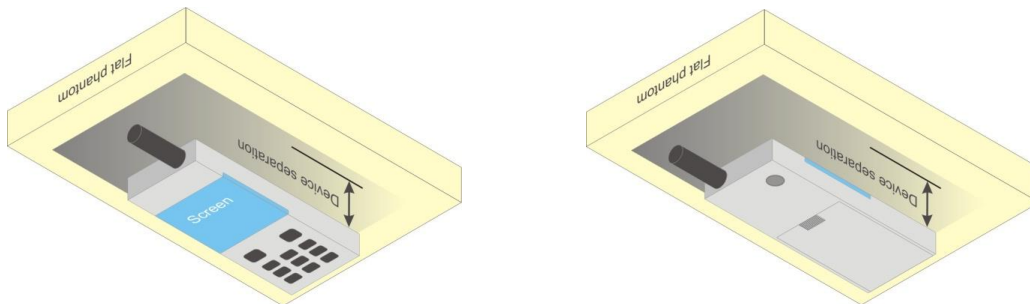


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

13.6 Wireless Router

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

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

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<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.
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 $\leq 1/4$ 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 HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, 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:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - 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
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- 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 $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. 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.		

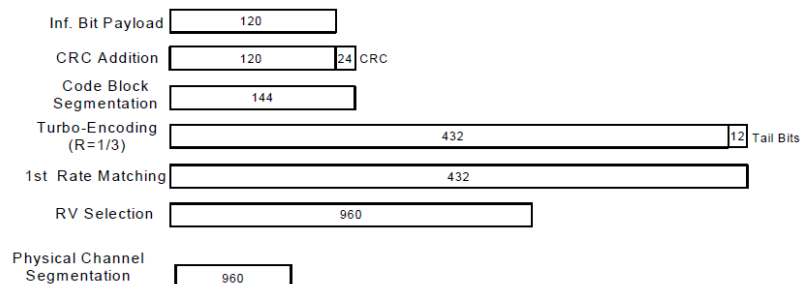


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- i. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- ii. The RF path losses were compensated into the measurements.
- iii. A call was established between EUT and Base Station with following setting * :
 4. Call Configs = 5.2E:HSPA+:UL with 16QAM
 5. 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, C11.1.4, quoted from the TS 34.121-1 s5.2E
 6. Set Channel Params
 7. Set Cell Power = -86 dBm
 8. Set Channel Type = HSPA
 9. Set UE Target Power =21 dBm
 10. Power Ctrl Mode= All Up Bits
 11. Set Manual Uplink DPCH Bc/Bd = Manual
 12. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 13. Set HSPA Conn DL Channel Levels
 14. Set HS-SCCH Configs
 15. Set RB Test Mode Setup
 16. Set Common HSUPA Parameters
 17. Set Serving Grant
 18. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- iv. The transmitted maximum output power was recorded.

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{fs} = 30/15 * \beta_c$.
 Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
 Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.
 Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
 Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

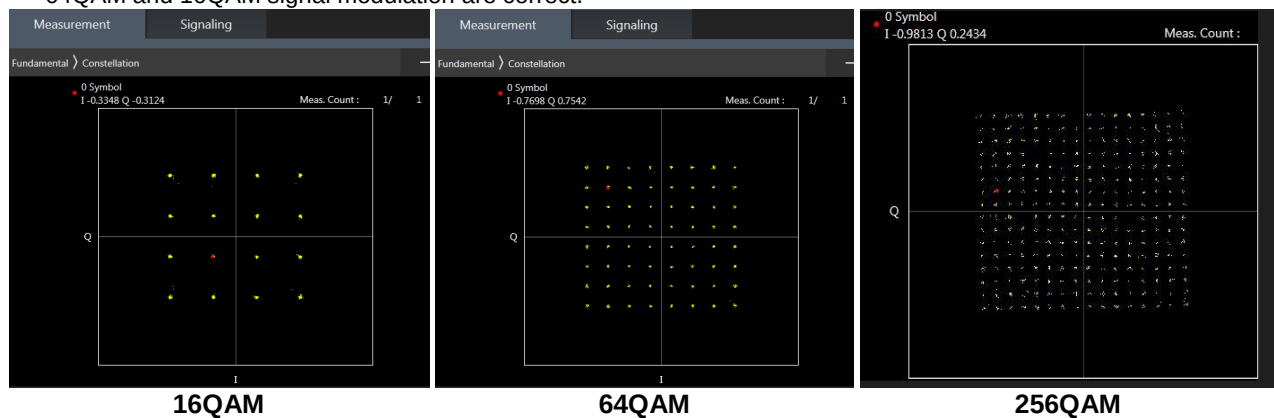
Setup Configuration
<WCDMA Conducted Power>
General Note:

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

<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/64QAM/256QAM 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/64QAM/256QAM 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 B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



<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.

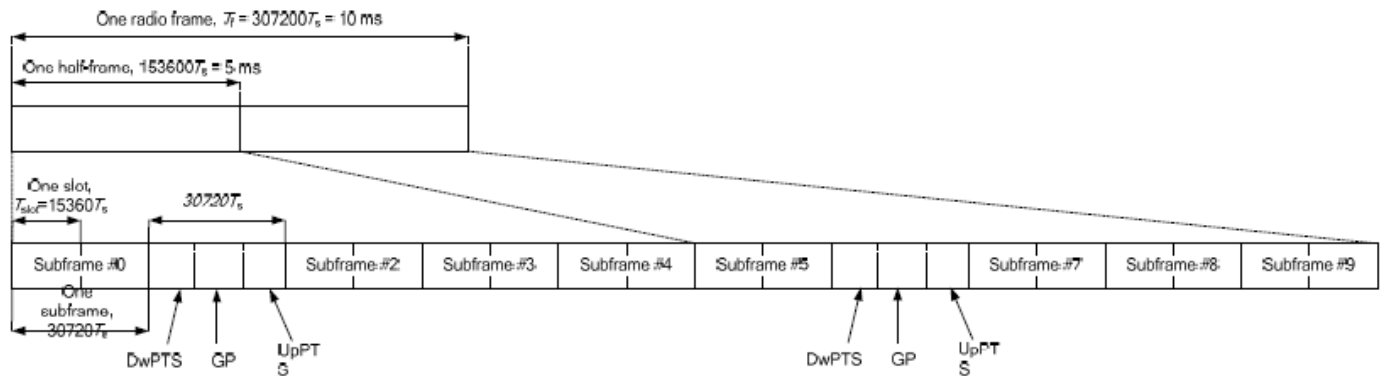


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 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: $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $43.3\%/42.9\% = 1.009$ 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.

For LTE TDD Power class 3

- 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 can adjust uplink/downlink configuration automatically according to the transmitting power class level, as followings:

LTE TDD Band	Power Class level	support uplink/downlink configuration
LTE Band 41	> 23	1,2,3,4,5
	=23	0,1,2,3,4,5,6
	< 23	0,1,2,3,4,5,6

<LTE Carrier Aggregation>

The detailed LTE Carrier Aggregation conducted power table can refer to Appendix F.

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. All permutations exist. No restrictions on Pcell & Scell combinations. Only LTE Band 29A is limited to Scell.

2CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by
			Measurement Superset
1	CA_12A-30A	30A	
2	CA_12A-48A	48A	
3	CA_12A-66A	66A	
4	CA_12B		
5	CA_13A-48A	48A	
6	CA_13A-66A	66A	
7	CA_14A-30A	30A	
8	CA_14A-66A	66A	
9	CA_25A-25A	25A	
10	CA_25A-26A	25A	
11	CA_25A-41A	25A-41A	
12	CA_25A-66A	25A-66A	
13	CA_26A-41A	41A	
14	CA_2A-12A	2A	
15	CA_2A-13A	2A	
16	CA_2A-14A	2A	
17	CA_2A-17A	2A	
18	CA_29A-30A	30A	
19	CA_29A-66A	66A	
20	CA_2A-29A	2A	
21	CA_2A-2A	2A	
22	CA_2A-30A	2A-30A	
23	CA_2A-48A	2A-48A	
24	CA_2A-4A	2A-4A	
25	CA_2A-5A	2A	
26	CA_2A-66A	2A-66A	
27	CA_2A-71A	2A	
28	CA_2A-7A	2A-7A	
29	CA_2C	2C	
30	CA_30A-66A	30A-66A	
31	CA_41A-41A	41A	
32	CA_41A-48A	41A-48A	
33	CA_41C	41C	
34	CA_48A-66A	48A-66A	
35	CA_48B	48B	
36	CA_48C	48C	
37	CA_4A-12A	4A	
38	CA_4A-13A	4A	
39	CA_4A-17A	4A	
40	CA_4A-29A	4A	
41	CA_4A-30A	4A-30A	

42	CA_4A-48A	4A-48A	
43	CA_4A-4A	4A	
44	CA_4A-5A	4A	
45	CA_4A-71A	4A	
46	CA_4A-7A	4A-7A	
47	CA_5A-30A	30A	
48	CA_5A-41A	41A	
49	CA_5A-48A	48A	
50	CA_5A-66A	66A	
51	CA_5A-7A	7A	
52	CA_5B		
53	CA_66A-66A	66A	
54	CA_66A-71A	66A	
55	CA_66B	66B	
56	CA_66C	66C	
57	CA_7A-12A	7A	
58	CA_7A-13A	7A	
59	CA_7A-25A	7A-25A	
60	CA_7A-29A	7A	
61	CA_7A-30A	7A-30A	
62	CA_7A-66A	7A-66A	
63	CA_7A-7A	7A	
64	CA_7B	7B	
65	CA_7C	7C	
66	CA_48A-48A	48A	

LTE Carrier Aggregation Conducted Power (Downlink)

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vi. 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.
- vii. 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.

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 2/4/7/25/30/41/48/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

4X4 MIMO	Band
	LTE Band 2/4/7/25/30/41/48/66

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	
CA_5B	Ant0&4
CA_41C	Ant0&1&4&10
CA_48B	Ant 3
CA_48C	Ant 3

<Intra-band>
General Note:

- The device supports intra-band uplink carrier aggregation for LTE B5/41/48 with a maximum of two uplink 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.
- The device supports uplink carrier aggregation with a maximum of two uplink 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.
- According Nov. 2017 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.
- 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.
- LTE CA_48B test was covered by CA_48C; therefore, SAR was only assessed for CA_48C.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation
Inter-band	Main Antenna Tx
CA_12A-66A	ANT4-ANT1
CA_13A-66A	ANT4-ANT1
CA_14A-66A	ANT4-ANT1
CA_2A-12A	ANT1-ANT4
CA_2A-13A	ANT1-ANT4
CA_2A-14A	ANT1-ANT4
CA_2A-48A	ANT1-ANT3
CA_2A-4A	ANT1-ANT4
CA_2A-5A	ANT1-ANT4
CA_2A-66A	ANT1-ANT4
CA_2A-71A	ANT1-ANT4
CA_48A-66A	ANT3-ANT1
CA_4A-12A	ANT1-ANT4
CA_4A-13A	ANT1-ANT4
CA_4A-5A	ANT1-ANT4
CA_5A-66A	ANT4-ANT1

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. The product implements MediaTek TA-SAR feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
3. For LTE inter-band CA mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. TA-SAR algorithm controls the total RF exposure base on LTE inter CA bands to not exceed FCC limit. In Part 1 Report, simultaneous transmission compliance was evaluated with other Radios (WLAN or BT) using standalone LTE SAR mode.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n12/n25/n66/n71/n41/n48/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n14/n25/n26/n30/n66/n70/n71/n41/n48/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing 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
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. 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
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will 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
4. For 5G NR bands, using FTM to perform SAR with default 100% transmission.
5. For 5G NR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
6. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
7. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
8. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
9. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
10. This device supports HPUE for 5G NR n41/77/78 with class 2 level, HPUE power has been measured separately. For 5G NR n41/77/78 performed full SAR testing with class 2.

<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		

<EN-DC combination>

ENDC	Main Antenna Tx		ASDdiv-1 Tx	
	LTE TX	NR TX	LTE TX	NR TX
DC_12A_n25A	Ant4	Ant1	ANT0	ANT4
DC_12A_n2A	Ant4	Ant1	ANT0	ANT4
DC_12A_n41A	Ant4	Ant1	ANT0	ANT4/0/10
DC_12A_n66A	Ant4	Ant1	ANT0	ANT4
DC_12A_n77A	Ant0	Ant3	ANT4	ANT5/7/9
DC_12A_n78A	Ant0	Ant3	ANT4	ANT5/7/9
DC_12A_n7A	Ant4	Ant1	/	/
DC_13A_n2A	Ant4	Ant1	ANT0	ANT4
DC_13A_n66A	Ant4	Ant1	ANT0	ANT4
DC_13A_n77A	Ant0	Ant3	ANT4	ANT3/5/7/9
DC_13A_n78A	Ant0	Ant3	ANT4	ANT3/5/7/9
DC_14A_n2A	Ant4	Ant1	ANT0	ANT4
DC_14A_n66A	Ant4	Ant1	ANT0	ANT4
DC_14A_n77A	Ant0	Ant3	ANT4	ANT3/5/7/9
DC_25A_n41A	Ant4	Ant1	/	/
DC_25A_n77A	Ant1	Ant3	ANT4	ANT3/5/7/9
DC_25A_n78A	Ant1	Ant3	ANT4	ANT3/5/7/9
DC_26A_n25A	Ant4	Ant1	ANT0	ANT4
DC_26A_n41A	Ant4	Ant1	ANT0	ANT4/0/10
DC_26A_n77A	Ant0	Ant3	ANT4	ANT5/7/9
DC_2A_n12A	Ant1	Ant4	ANT4	ANT0
DC_2A_n41A	Ant4	Ant1	/	ANT4/0/10
DC_2A_n5A	Ant1	Ant4	ANT4	ANT0
DC_2A_n66A	Ant1	Ant4	ANT4	ANT1
DC_2A_n71A	Ant1	Ant4	ANT4	ANT0
DC_2A_n77A	Ant1	Ant3	ANT4	ANT5/7/9
DC_2A_n78A	Ant1	Ant3	ANT4	ANT5/7/9



DC_2A_n7A	Ant4	Ant1	/	/
DC_30A_n2A	Ant1	Ant4	/	/
DC_30A_n5A	Ant1	Ant4	/	ANT0
DC_30A_n66A	Ant1	Ant4	/	/
DC_30A_n77A	Ant4	Ant3	/	ANT5/7/9
DC_48A_n2A	Ant3	Ant1	/	ANT4
DC_48A_n5A	Ant3	Ant0	/	ANT4
DC_48A_n66A	Ant3	Ant1	/	ANT4
DC_48A_n71A	Ant3	Ant0	/	/
DC_4A_n2A	Ant1	Ant4	ANT4	ANT1
DC_4A_n41A	Ant4	Ant1	/	ANT4/0/10
DC_4A_n5A	Ant1	Ant4	ANT4	ANT0
DC_4A_n78A	Ant1	Ant3	ANT4	ANT5/7/9
DC_4A_n7A	Ant4	Ant1	/	/
DC_5A_n2A	Ant4	Ant1	ANT0	ANT4
DC_5A_n41A	Ant4	Ant1	ANT0	ANT4/0/10
DC_5A_n48A	Ant0	Ant3	ANT4	ANT5/7/9
DC_5A_n66A	Ant4	Ant1	ANT0	ANT4
DC_5A_n77A	Ant0	Ant3	ANT4	ANT5/7/9
DC_5A_n78A	Ant0	Ant3	ANT4	ANT5/7/9
DC_5A_n7A	Ant4	Ant1	ANT0	/
DC_66A_n12A	Ant1	Ant4	ANT4	ANT0
DC_66A_n25A	Ant1	Ant4	ANT4	ANT1
DC_66A_n2A	Ant1	Ant4	ANT4	ANT1
DC_66A_n41A	Ant4	Ant1	/	/
DC_66A_n5A	Ant1	Ant4	ANT4	ANT0
DC_66A_n71A	Ant1	Ant4	ANT4	ANT0
DC_66A_n77A	Ant1	Ant3	ANT4	ANT5/7/9
DC_66A_n78A	Ant1	Ant3	ANT4	ANT5/7/9
DC_66A_n7A	Ant4	Ant1	/	/
DC_71A_n41A	Ant4	Ant1	ANT0	ANT34/0/10
DC_71A_n48A	Ant0	Ant3	ANT4	ANT5/7/9
DC_71A_n66A	Ant4	Ant1	ANT1	ANT4
DC_71A_n77A	Ant0	Ant3	ANT4	ANT5/7/9
DC_71A_n78A	Ant0	Ant3	ANT4	ANT5/7/9
DC_7A_n25A	Ant1	Ant4	/	/
DC_7A_n2A	Ant1	Ant4	/	/
DC_7A_n5A	Ant1	Ant4	/	ANT0
DC_7A_n66A	Ant1	Ant4	/	/
DC_7A_n71A	Ant1	Ant4	/	ANT0
DC_7A_n77A	Ant4	Ant3	/	ANT5/7/9
DC_7A_n78A	Ant4	Ant3	/	ANT5/7/9

<WLAN Conducted Power>

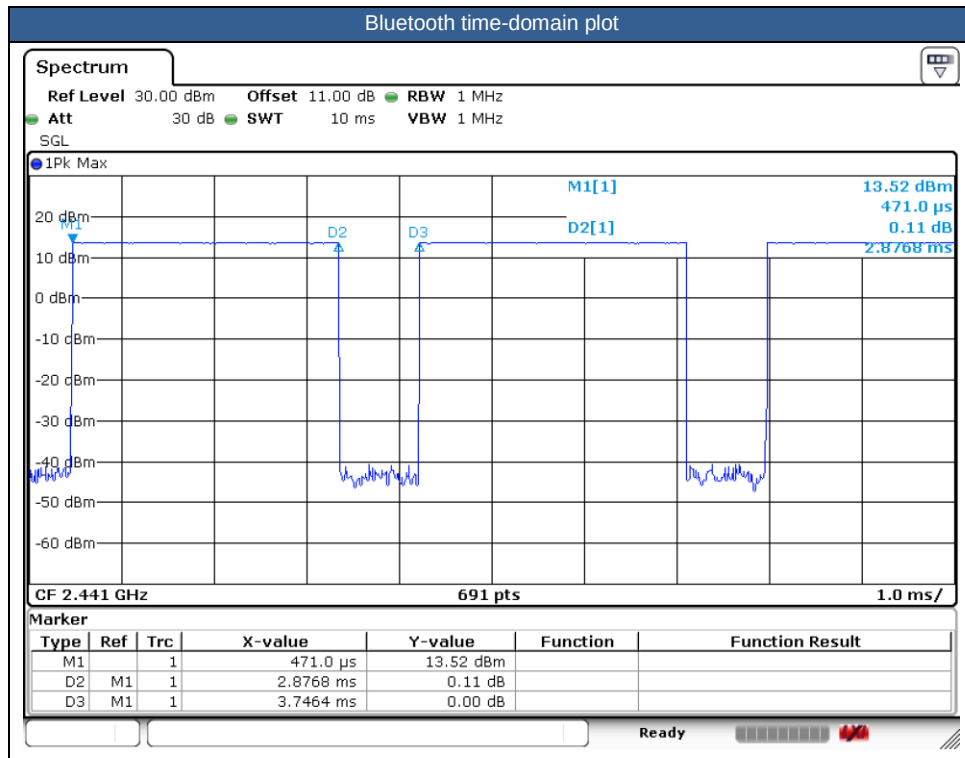
General Note:

1. 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.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.¹⁸ The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 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 closest/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - 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.

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.79% as following figure, for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





15. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

16. 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 SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
 - d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - e. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - f. For TDD LTE SAR measurement of power class 3, 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 (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
 - g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = 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 when the measured SAR is ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the MediaTek TA-SAR will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity 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.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/5/7/12/13/14/17/25/26/30/66/38/41/48, 5GNR n2/n7/n25/n30/n66/n70/n48/n41/n77/n78, WLAN2.4/5.2/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
6. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
7. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
8. LTE B2/4/7/25/66/30 at Ant 4 and 5GNR n2/25/66 at Ant 4, and 5GNR n2 at Ant 1 support different PAs and 5GNR n2/25/66 at Ant 4 support different Paths for some antennas, and some LTE/NR bands support Other PA only under ENDC

& UL CA. Some LTE/NR bands support different PAs (or Paths) for some antennas, whether it is the maximum power of Main PA (or Path) is higher than and very close to the other PA (or Path), for RF exposure, after verification all PAs (or Paths) in a same position, so the worst-case PA (or Path) was chosen to perform full SAR testing to ensure the RF exposure is compliance and other PAs (or Paths) verified the worst case. For Bluetooth distance SAR test at Front 11mm and Back 20mm is only for simultaneous transmission analysis with WWAN.

9. For Bluetooth distance SAR test at Front 11mm and Back 20mm is only for simultaneous transmission analysis with WWAN.

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.
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.

WCDMA 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 / HSPA+ 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 / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

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/64QAM/256QAM output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ 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/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ 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 B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; 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

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing 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.
 - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - c. 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.
 - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - e. Smaller bandwidth output power for each RB allocation configuration for this device will 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
 - f. For 5G FR1 n2/n5 /n7/ n12/ n25 /n26 /n66 /n41/n48 /n77 the maximum bandwidth does not support three non-overlapping channels, 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.

WLAN/Bluetooth 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, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next 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. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

ECI status description:

The device has the following ECI state which used at different exposure condition.

This WWAN bands enabled with MediaTek TA-SAR feature which located at chapter 5. The default power is Pmax power, When Plimit power higher than Pmax power, the output power will be limited at Pmax, and so the SAR will use Pmax power to do the testing.

Exposure Condition	ECI	Trigger conditions
Head SAR	ECI2	Earpiece On
Hotspot SAR	ECI7	Hotspot On
Body worn SAR	ECI3	Sensor On
Extremity SAR	ECI6	Sensor On
Body worn/ Extremity SAR	ECI4	Sensor Off



16.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	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)
750MHz																				
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	133322	683	23.09	24.00	1.233	-	-	0.08	0.131	0.162
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	133322	683	22.12	23.00	1.225	-	-	0.01	0.105	0.129
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	133322	683	23.09	24.00	1.233	-	-	0.03	0.060	0.074
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	133322	683	22.12	23.00	1.225	-	-	-0.08	0.050	0.061
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	133322	683	23.09	24.00	1.233	-	-	-0.08	0.200	0.247
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	133322	683	22.12	23.00	1.225	-	-	0.1	0.158	0.193
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	133322	683	23.09	24.00	1.233	-	-	-0.18	0.102	0.126
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	133322	683	22.12	23.00	1.225	-	-	0.1	0.081	0.099
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	133322	683	23.19	24.00	1.205	-	-	-0.18	0.605	0.729
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	133322	683	22.09	23.00	1.233	-	-	0.08	0.444	0.547
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	133322	683	23.19	24.00	1.205	-	-	0.03	0.494	0.595
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	133322	683	22.09	23.00	1.233	-	-	-0.08	0.497	0.613
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	133322	683	23.19	24.00	1.205	-	-	0.1	0.313	0.377
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	133322	683	22.09	23.00	1.233	-	-	-0.18	0.226	0.279
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	133322	683	23.19	24.00	1.205	-	-	0.1	0.303	0.365
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	133322	683	22.09	23.00	1.233	-	-	0.12	0.219	0.270
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	22.99	24.00	1.262	-	-	0.08	0.126	0.159
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	21.92	23.00	1.282	-	-	0.01	0.100	0.128
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	22.99	24.00	1.262	-	-	0.03	0.063	0.079
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	21.92	23.00	1.282	-	-	-0.08	0.050	0.064
02	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	22.99	24.00	1.262	-	-	-0.08	0.211	0.266
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	21.92	23.00	1.282	-	-	0.1	0.171	0.219
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	22.99	24.00	1.262	-	-	-0.18	0.121	0.153
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	21.92	23.00	1.282	-	-	0.1	0.087	0.112
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	23095	707.5	20.04	20.90	1.219	-	-	-0.03	0.676	0.824
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	DSI 2	23095	707.5	20.00	20.90	1.230	-	-	0.12	0.542	0.667
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	23095	707.5	19.95	20.90	1.245	-	-	0.03	0.611	0.760
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	23095	707.5	20.04	20.90	1.219	-	-	0.18	0.545	0.664
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	DSI 2	23095	707.5	20.00	20.90	1.230	-	-	0.16	0.426	0.524
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	23095	707.5	20.04	20.90	1.219	-	-	0.07	0.357	0.435
03	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	DSI 2	23095	707.5	20.00	20.90	1.230	-	-	0.18	0.281	0.346
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	23095	707.5	20.04	20.90	1.219	-	-	0.01	0.353	0.430
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	DSI 2	23095	707.5	20.00	20.90	1.230	-	-	-0.15	0.271	0.333
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23230	782	22.92	24.00	1.282	-	-	0.07	0.170	0.218
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23230	782	22.01	23.00	1.256	-	-	-0.18	0.137	0.172
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23230	782	22.92	24.00	1.282	-	-	0.03	0.106	0.136
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23230	782	22.01	23.00	1.256	-	-	-0.15	0.084	0.106
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23230	782	22.92	24.00	1.282	-	-	-0.15	0.253	0.324
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23230	782	22.01	23.00	1.256	-	-	0.11	0.198	0.249
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23230	782	22.92	24.00	1.282	-	-	-0.08	0.152	0.195
03	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23230	782	22.01	23.00	1.256	-	-	-0.17	0.116	0.146
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	23230	782	20.05	20.90	1.216	-	-	0.03	0.690	0.839
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	DSI 2	23230	782	19.93	20.90	1.250	-	-	0.08	0.512	0.640
	LTE Band 13	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	23230	782	19.89	20.90	1.262	-	-	0.01	0.525	0.662
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	23230	782	20.05	20.90	1.216	-	-	0.03	0.546	0.664
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	DSI 2	23230	782	19.93	20.90	1.250	-	-	-0.08	0.451	0.564
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	23230	782	20.05	20.90	1.216	-	-	0.1	0.385	0.468
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	DSI 2	23230	782	19.93	20.90	1.250	-	-	-0.18	0.311	0.389
03	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	23230	782	20.05	20.90	1.216	-	-	0.12	0.359	0.437
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	DSI 2	23230	782	19.93	20.90	1.250	-	-	0.08	0.287	0.359



FCC SAR Test Report

Report No. : FA483010

	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23330	793	23.03	24.00	1.250	-	-	0.08	0.162	0.203
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23330	793	21.98	23.00	1.265	-	-	-0.17	0.130	0.164
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23330	793	23.03	24.00	1.250	-	-	-0.03	0.099	0.124
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23330	793	21.98	23.00	1.265	-	-	0.14	0.079	0.100
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23330	793	23.03	24.00	1.250	-	-	0.11	0.238	0.298
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23330	793	21.98	23.00	1.265	-	-	-0.05	0.186	0.235
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23330	793	23.03	24.00	1.250	-	-	0.18	0.144	0.180
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23330	793	21.98	23.00	1.265	-	-	0.14	0.114	0.144
04	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	23330	793	20.65	21.60	1.245	-	-	-0.07	0.709	0.882
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	DSI 2	23330	793	20.59	21.60	1.262	-	-	-0.17	0.638	0.805
	LTE Band 14	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	23330	793	20.58	21.60	1.265	-	-	0.17	0.678	0.857
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	23330	793	20.65	21.60	1.245	-	-	-0.05	0.600	0.747
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	DSI 2	23330	793	20.59	21.60	1.262	-	-	0.01	0.564	0.712
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	23330	793	20.65	21.60	1.245	-	-	-0.17	0.395	0.492
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	DSI 2	23330	793	20.59	21.60	1.262	-	-	0.04	0.329	0.415
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	23330	793	20.65	21.60	1.245	-	-	-0.08	0.393	0.489
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	DSI 2	23330	793	20.59	21.60	1.262	-	-	0.05	0.302	0.381
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	136100	680.5	23.16	24.00	1.213	-	-	-0.03	0.088	0.107
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	136100	680.5	23.13	24.00	1.222	-	-	-0.14	0.086	0.105
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	136100	680.5	23.16	24.00	1.213	-	-	0.17	0.000	0.000
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	136100	680.5	23.13	24.00	1.222	-	-	0.11	0.000	0.000
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	136100	680.5	23.16	24.00	1.213	-	-	0.07	0.133	0.161
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	136100	680.5	23.13	24.00	1.222	-	-	-0.04	0.125	0.153
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	136100	680.5	23.16	24.00	1.213	-	-	-0.18	0.072	0.087
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	136100	680.5	23.13	24.00	1.222	-	-	-0.13	0.058	0.071
05	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	136100	680.5	23.33	24.00	1.167	-	-	0.03	0.709	0.827
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	136100	680.5	23.22	24.00	1.197	-	-	0.01	0.689	0.825
	FR1 n71	35M	QPSK	188	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	136100	680.5	22.32	23.00	1.169	-	-	0.1	0.630	0.737
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	136100	680.5	23.33	24.00	1.167	-	-	0.11	0.632	0.737
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	136100	680.5	23.22	24.00	1.197	-	-	-0.07	0.476	0.570
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	136100	680.5	23.33	24.00	1.167	-	-	0.12	0.370	0.432
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	136100	680.5	23.22	24.00	1.197	-	-	0.07	0.430	0.515
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	136100	680.5	23.33	24.00	1.167	-	-	0.15	0.365	0.426
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	136100	680.5	23.22	24.00	1.197	-	-	0.14	0.411	0.492
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	141500	707.5	23.19	24.00	1.205	-	-	-0.11	0.075	0.090
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	141500	707.5	23.17	24.00	1.211	-	-	-0.05	0.080	0.097
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	141500	707.5	23.19	24.00	1.205	-	-	-0.04	0.000	0.000
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	141500	707.5	23.17	24.00	1.211	-	-	-0.08	0.000	0.000
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	141500	707.5	23.19	24.00	1.205	-	-	0	0.119	0.143
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	141500	707.5	23.17	24.00	1.211	-	-	-0.14	0.134	0.162
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	141500	707.5	23.19	24.00	1.205	-	-	0.01	0.060	0.072
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	141500	707.5	23.17	24.00	1.211	-	-	0.18	0.067	0.081
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	141500	707.5	22.86	23.50	1.159	-	-	-0.03	0.663	0.768
06	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	141500	707.5	22.75	23.50	1.189	-	-	0.02	0.729	0.866
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	141500	707.5	22.20	23.50	1.349	-	-	0.09	0.571	0.770
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	141500	707.5	22.86	23.50	1.159	-	-	-0.08	0.513	0.594
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	141500	707.5	22.75	23.50	1.189	-	-	-0.05	0.614	0.730
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	141500	707.5	22.86	23.50	1.159	-	-	0.17	0.368	0.426
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	141500	707.5	22.75	23.50	1.189	-	-	-0.14	0.414	0.492
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	141500	707.5	22.86	23.50	1.159	-	-	0.06	0.356	0.413
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	141500	707.5	22.75	23.50	1.189	-	-	-0.06	0.390	0.464
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	158600	793	23.29	24.00	1.178	-	-	-0.15	0.110	0.130
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	158600	793	23.21	24.00	1.199	-	-	-0.12	0.110	0.132
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	158600	793	23.29	24.00	1.178	-	-	-0.16	0.067	0.079
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	158600	793	23.21	24.00	1.199	-	-	-0.03	0.067	0.080
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	158600	793	23.29	24.00	1.178	-	-	0.17	0.155	0.183



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	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	158600	793	23.21	24.00	1.199	-	-	0.02	0.151	0.181
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	158600	793	23.29	24.00	1.178	-	-	0	0.099	0.117
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	158600	793	23.21	24.00	1.199	-	-	0.18	0.099	0.119
07	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	158600	793	22.94	23.50	1.138	-	-	-0.05	0.641	0.729
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	158600	793	22.88	23.50	1.153	-	-	0.05	0.621	0.716
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	158600	793	22.94	23.50	1.138	-	-	-0.18	0.531	0.604
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	158600	793	22.88	23.50	1.153	-	-	-0.03	0.531	0.612
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	158600	793	22.94	23.50	1.138	-	-	-0.09	0.396	0.451
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	158600	793	22.88	23.50	1.153	-	-	0.18	0.393	0.453
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	158600	793	22.94	23.50	1.138	-	-	0.11	0.360	0.410
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	158600	793	22.88	23.50	1.153	-	-	0.07	0.353	0.407
835MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	189	836.4	29.09	30.50	1.384	-	-	-0.09	0.230	0.318
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	189	836.4	29.09	30.50	1.384	-	-	-0.08	0.117	0.162
08	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	29.09	30.50	1.384	-	-	-0.03	0.356	0.493
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	189	836.4	29.09	30.50	1.384	-	-	0.13	0.193	0.267
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	23.22	24.00	1.197	-	-	0.02	0.199	0.238
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	4182	836.4	23.22	24.00	1.197	-	-	0.16	0.112	0.134
09	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	23.22	24.00	1.197	-	-	0.02	0.288	0.345
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	23.22	24.00	1.197	-	-	0.06	0.164	0.196
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	23.06	24.00	1.242	-	-	-0.13	0.196	0.243
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	22.03	23.00	1.250	-	-	0	0.156	0.195
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	23.06	24.00	1.242	-	-	-0.04	0.114	0.142
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	22.03	23.00	1.250	-	-	-0.15	0.089	0.111
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	23.06	24.00	1.242	-	-	-0.09	0.293	0.364
	LTE Band 5B	10M	QPSK	1	49	-	Left Cheek	0mm	Ant 0	DSI 2	20476+20575	831.6+841.5	22.71	24.00	1.346	-	-	0.06	0.266	0.358
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	22.03	23.00	1.250	-	-	0.05	0.229	0.286
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	23.06	24.00	1.242	-	-	0.13	0.169	0.210
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	22.03	23.00	1.250	-	-	0	0.140	0.175
10	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	26865	831.5	19.72	20.60	1.225	-	-	0.03	0.668	0.818
	LTE Band 5B	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 4	DSI 2	20476+20575	831.6+841.5	19.59	20.60	1.262	-	-	-0.04	0.641	0.809
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 4	DSI 2	26865	831.5	19.68	20.60	1.236	-	-	-0.08	0.511	0.632
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 4	DSI 2	26865	831.5	19.64	20.60	1.247	-	-	-0.04	0.481	0.600
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26865	831.5	19.72	20.60	1.225	-	-	-0.08	0.544	0.666
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 4	DSI 2	26865	831.5	19.68	20.60	1.236	-	-	0.17	0.413	0.510
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	26865	831.5	19.72	20.60	1.225	-	-	-0.04	0.386	0.473
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 4	DSI 2	26865	831.5	19.68	20.60	1.236	-	-	-0.08	0.292	0.361
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	26865	831.5	19.72	20.60	1.225	-	-	-0.13	0.350	0.429
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 4	DSI 2	26865	831.5	19.68	20.60	1.236	-	-	0.06	0.266	0.329
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	166300	831.5	23.33	24.00	1.167	-	-	-0.03	0.133	0.155
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	166300	831.5	23.23	24.00	1.194	-	-	0.08	0.127	0.152
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	166300	831.5	23.33	24.00	1.167	-	-	-0.07	0.075	0.088
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	166300	831.5	23.23	24.00	1.194	-	-	0.05	0.071	0.085
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	166300	831.5	23.33	24.00	1.167	-	-	-0.11	0.184	0.215
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	166300	831.5	23.23	24.00	1.194	-	-	-0.12	0.177	0.211
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	166300	831.5	23.33	24.00	1.167	-	-	0.03	0.113	0.132
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	166300	831.5	23.23	24.00	1.194	-	-	-0.16	0.107	0.128
11	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	166300	831.5	21.61	22.90	1.346	-	-	0.04	0.658	0.886
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	166300	831.5	21.47	22.90	1.390	-	-	-0.02	0.631	0.877
	FR1 n26	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	166300	831.5	21.29	22.90	1.449	-	-	0.15	0.522	0.756
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	166300	831.5	21.61	22.90	1.346	-	-	-0.09	0.568	0.764
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	166300	831.5	21.47	22.90	1.390	-	-	0.11	0.543	0.755
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	166300	831.5	21.61	22.90	1.346	-	-	-0.08	0.416	0.560
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	166300	831.5	21.47	22.90	1.390	-	-	0.16	0.407	0.566
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	166300	831.5	21.61	22.90	1.346	-	-	0.05	0.374	0.503



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	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	166300	831.5	21.47	22.90	1.390	-	-	-0.03	0.365	0.507
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1413	1732.6	23.33	24.00	1.167	-	-	-0.02	0.142	0.166
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	1413	1732.6	23.33	24.00	1.167	-	-	0.07	0.094	0.110
12	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1413	1732.6	23.33	24.00	1.167	-	-	0.04	0.150	0.175
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1312	1712.4	23.18	24.00	1.208	-	-	0.03	0.141	0.170
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1513	1752.6	23.32	24.00	1.169	-	-	-0.08	0.138	0.161
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	1413	1732.6	23.33	24.00	1.167	-	-	-0.17	0.093	0.109
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	23.29	24.00	1.178	-	-	0.1	0.158	0.186
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	22.42	23.00	1.143	-	-	0.08	0.128	0.146
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	23.29	24.00	1.178	-	-	0	0.114	0.134
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	22.42	23.00	1.143	-	-	-0.13	0.091	0.104
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	23.29	24.00	1.178	-	-	-0.1	0.176	0.207
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132072	1720	23.24	24.00	1.191	-	-	-0.08	0.155	0.185
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132572	1770	23.21	24.00	1.199	-	-	0.1	0.161	0.193
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	22.42	23.00	1.143	-	-	-0.07	0.141	0.161
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	23.29	24.00	1.178	-	-	0.11	0.126	0.148
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	22.42	23.00	1.143	-	-	-0.17	0.098	0.112
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	132322	1745	14.46	15.90	1.393	-	-	0.02	0.533	0.743
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	132322	1745	14.42	15.90	1.406	-	-	0.13	0.414	0.582
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	132322	1745	14.46	15.90	1.393	-	-	-0.03	0.611	0.851
13	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	132072	1720	14.35	15.90	1.429	-	-	-0.07	0.634	0.906
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	132572	1770	14.30	15.90	1.445	-	-	0.07	0.625	0.903
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	132322	1745	14.42	15.90	1.406	-	-	0	0.606	0.852
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	132072	1720	14.32	15.90	1.439	-	-	0.01	0.505	0.727
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	132572	1770	14.25	15.90	1.462	-	-	-0.01	0.490	0.716
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	132322	1745	14.41	15.90	1.409	-	-	-0.06	0.460	0.648
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	132322	1745	14.46	15.90	1.393	-	-	-0.04	0.331	0.461
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	132322	1745	14.42	15.90	1.406	-	-	-0.1	0.253	0.356
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	132322	1745	14.46	15.90	1.393	-	-	-0.05	0.437	0.609
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	132322	1745	14.42	15.90	1.406	-	-	-0.01	0.338	0.475
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	132072	1720	16.53	17.50	1.250	-	-	0.02	0.565	0.706
	LTE Band 4 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	20175	1732.5	16.55	17.50	1.245	-	-	0.03	0.584	0.727
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	340500	1702.5	23.15	24.00	1.216	-	-	-0.13	0.093	0.113
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	340500	1702.5	23.13	24.00	1.222	-	-	0.17	0.101	0.123
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	340500	1702.5	23.15	24.00	1.216	-	-	0.06	0.063	0.077
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	340500	1702.5	23.13	24.00	1.222	-	-	0	0.067	0.082
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	340500	1702.5	23.15	24.00	1.216	-	-	-0.04	0.112	0.136
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	340500	1702.5	23.13	24.00	1.222	-	-	-0.15	0.119	0.145
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	340500	1702.5	23.15	24.00	1.216	-	-	0.11	0.058	0.071
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	340500	1702.5	23.13	24.00	1.222	-	-	-0.02	0.056	0.068
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	340500	1702.5	17.24	18.00	1.191	-	-	0.12	0.643	0.766
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	340500	1702.5	17.22	18.00	1.197	-	-	-0.11	0.647	0.774
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	340500	1702.5	17.24	18.00	1.191	-	-	-0.16	0.714	0.851
14	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	340500	1702.5	17.22	18.00	1.197	-	-	-0.01	0.731	0.875
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	340500	1702.5	16.91	18.00	1.285	-	-	-0.17	0.576	0.740
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	340500	1702.5	17.24	18.00	1.191	-	-	0.11	0.399	0.475
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	340500	1702.5	17.22	18.00	1.197	-	-	-0.05	0.406	0.486
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	340500	1702.5	17.24	18.00	1.191	-	-	-0.14	0.501	0.597
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	340500	1702.5	17.22	18.00	1.197	-	-	-0.15	0.514	0.615
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	23.19	24.00	1.205	-	-	-0.17	0.100	0.121
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	23.18	24.00	1.208	-	-	0.08	0.111	0.134
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	23.19	24.00	1.205	-	-	0.01	0.063	0.076
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	23.18	24.00	1.208	-	-	0.02	0.070	0.085
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	23.19	24.00	1.205	-	-	-0.11	0.122	0.147



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	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	23.18	24.00	1.208	-	-	-0.01	0.117	0.141
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	23.19	24.00	1.205	-	-	0.09	0.069	0.083
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	23.18	24.00	1.208	-	-	0.1	0.071	0.086
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	23.24	24.00	1.191	-	-	-0.04	0.112	0.133
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	349000	1745	18.09	19.00	1.233	-	-	0.08	0.631	0.778
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	349000	1745	18.04	19.00	1.247	-	-	0.01	0.612	0.763
15	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	18.09	19.00	1.233	-	-	-0.03	0.714	0.880
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	18.04	19.00	1.247	-	-	-0.08	0.675	0.842
	FR1 n66 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	17.78	19.00	1.324	-	-	0.01	0.601	0.796
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	349000	1745	18.09	19.00	1.233	-	-	0.1	0.390	0.481
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	349000	1745	18.04	19.00	1.247	-	-	-0.18	0.376	0.469
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	349000	1745	18.09	19.00	1.233	-	-	0.12	0.511	0.630
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	349000	1745	18.04	19.00	1.247	-	-	0.08	0.490	0.611
	FR1 n66 Other Path	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	18.16	19.00	1.213	-	-	-0.03	0.707	0.858
	FR1 n66 Main PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	15.79	16.50	1.178	-	-	-0.08	0.471	0.555
1900MHz																				
16	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	661	1880	25.09	26.50	1.384	-	-	-0.14	0.182	0.252
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	512	1850.2	25.09	26.50	1.384	-	-	-0.18	0.177	0.245
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 2	810	1909.8	25.05	26.50	1.396	-	-	0.1	0.180	0.251
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	DSI 2	661	1880	25.09	26.50	1.384	-	-	0.1	0.131	0.181
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 2	661	1880	25.09	26.50	1.384	-	-	0.04	0.165	0.228
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 2	661	1880	25.09	26.50	1.384	-	-	0.13	0.144	0.199
17	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9400	1880	23.15	24.00	1.216	-	-	0.05	0.231	0.281
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9262	1852.4	23.13	24.00	1.222	-	-	0.12	0.211	0.258
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9538	1907.6	23.11	24.00	1.227	-	-	0.08	0.228	0.280
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9400	1880	23.15	24.00	1.216	-	-	-0.18	0.150	0.182
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	9400	1880	23.15	24.00	1.216	-	-	-0.11	0.211	0.257
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	9400	1880	23.15	24.00	1.216	-	-	-0.16	0.174	0.212
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	23.15	24.00	1.216	-	-	-0.15	0.172	0.209
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26140	1860	23.07	24.00	1.239	-	-	-0.17	0.155	0.192
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26590	1905	23.03	24.00	1.250	-	-	-0.03	0.161	0.201
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	22.11	23.00	1.227	-	-	-0.06	0.136	0.167
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	23.15	24.00	1.216	-	-	-0.14	0.114	0.139
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	22.11	23.00	1.227	-	-	-0.19	0.092	0.113
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	23.15	24.00	1.216	-	-	0.01	0.160	0.195
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	22.11	23.00	1.227	-	-	0.06	0.125	0.153
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	23.15	24.00	1.216	-	-	0.02	0.137	0.167
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	22.11	23.00	1.227	-	-	0.12	0.108	0.133
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	26340	1880	21.23	22.00	1.194	-	-	-0.16	0.569	0.679
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	26340	1880	20.16	21.00	1.213	-	-	-0.12	0.464	0.563
18	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	21.23	22.00	1.194	-	-	-0.01	0.700	0.836
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26140	1860	20.84	22.00	1.306	-	-	0.07	0.606	0.792
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26590	1905	21.10	22.00	1.230	-	-	-0.02	0.668	0.822
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	20.16	21.00	1.213	-	-	-0.05	0.681	0.826
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	26140	1860	20.02	21.00	1.253	-	-	-0.13	0.575	0.721
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	26590	1905	19.75	21.00	1.334	-	-	0.08	0.536	0.715
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	19.89	21.00	1.291	-	-	0.16	0.544	0.702
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	26340	1880	21.23	22.00	1.194	-	-	0.01	0.357	0.426
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	26340	1880	20.16	21.00	1.213	-	-	-0.16	0.290	0.352
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	26340	1880	21.23	22.00	1.194	-	-	0.1	0.504	0.602
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	26340	1880	20.16	21.00	1.213	-	-	-0.04	0.400	0.485
	LTE Band 25 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	16.21	17.50	1.346	-	-	-0.01	0.546	0.735
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	18900	1880	16.18	17.50	1.355	-	-	-0.11	0.525	0.711
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	23.37	24.00	1.156	-	-	0.08	0.115	0.133
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	23.36	24.00	1.159	-	-	0.01	0.137	0.159



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	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	23.37	24.00	1.156	-	-	0.03	0.071	0.082
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	23.36	24.00	1.159	-	-	-0.08	0.076	0.088
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	23.37	24.00	1.156	-	-	-0.08	0.095	0.110
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	23.36	24.00	1.159	-	-	0.1	0.106	0.123
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376500	1882.5	23.37	24.00	1.156	-	-	-0.18	0.084	0.097
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376500	1882.5	23.36	24.00	1.159	-	-	0.1	0.089	0.103
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	23.21	24.00	1.199	-	-	0.12	0.121	0.145
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	376500	1882.5	17.23	17.90	1.167	-	-	0.14	0.595	0.694
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 2	376500	1882.5	17.13	17.90	1.194	-	-	0.11	0.605	0.722
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376500	1882.5	17.23	17.90	1.167	-	-	0.18	0.710	0.828
19	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376500	1882.5	17.13	17.90	1.194	-	-	-0.02	0.739	0.882
	FR1 n25 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376500	1882.5	16.80	17.90	1.288	-	-	0.14	0.595	0.767
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	376500	1882.5	17.23	17.90	1.167	-	-	-0.17	0.380	0.443
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 2	376500	1882.5	17.13	17.90	1.194	-	-	0.17	0.390	0.466
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	376500	1882.5	17.23	17.90	1.167	-	-	0.01	0.519	0.606
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 2	376500	1882.5	17.13	17.90	1.194	-	-	0.1	0.528	0.630
	FR1 n25 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376500	1882.5	17.09	17.90	1.205	-	-	0.04	0.730	0.880
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376000	1880	17.06	17.90	1.213	-	-	-0.01	0.723	0.877
	FR1 n2 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376000	1880	16.97	17.90	1.239	-	-	-0.08	0.710	0.880
	FR1 n25 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 2	376500	1882.5	15.26	16.00	1.186	-	-	-0.02	0.451	0.535
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	23.20	24.00	1.202	-	-	0.02	0.176	0.212
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	22.20	23.00	1.202	-	-	0.08	0.136	0.164
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	23.20	24.00	1.202	-	-	-0.17	0.052	0.063
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	22.20	23.00	1.202	-	-	-0.03	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	27710	2310	23.20	24.00	1.202	-	-	0.14	0.120	0.144
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	27710	2310	22.20	23.00	1.202	-	-	0.11	0.089	0.107
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	27710	2310	23.20	24.00	1.202	-	-	-0.05	0.090	0.108
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	27710	2310	22.20	23.00	1.202	-	-	0.18	0.069	0.083
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	27710	2310	23.02	24.00	1.253	-	-	0.14	0.341	0.427
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	DSI 2	27710	2310	21.88	23.00	1.294	-	-	-0.17	0.268	0.347
20	LTE Band 30 Other PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	27710	2310	23.02	24.00	1.253	-	-	0.02	0.412	0.516
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	DSI 2	27710	2310	21.88	23.00	1.294	-	-	0.17	0.331	0.428
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	27710	2310	23.02	24.00	1.253	-	-	-0.05	0.154	0.193
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	DSI 2	27710	2310	21.88	23.00	1.294	-	-	0.01	0.124	0.160
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	27710	2310	23.02	24.00	1.253	-	-	0.1	0.215	0.269
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	DSI 2	27710	2310	21.88	23.00	1.294	-	-	-0.17	0.174	0.225
21	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	23.37	24.00	1.156	-	-	0.04	0.112	0.129
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	23.35	24.00	1.161	-	-	0.04	0.110	0.128
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	23.37	24.00	1.156	-	-	-0.01	0.035	0.040
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	23.35	24.00	1.161	-	-	-0.08	0.034	0.039
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	462000	2310	23.37	24.00	1.156	-	-	0.05	0.059	0.068
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	462000	2310	23.35	24.00	1.161	-	-	0.06	0.060	0.070
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	462000	2310	23.37	24.00	1.156	-	-	-0.09	0.055	0.064
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	462000	2310	23.35	24.00	1.161	-	-	-0.08	0.053	0.062
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	23.19	24.00	1.205	-	-	0.08	0.276	0.333
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	23.11	24.00	1.227	-	-	0.04	0.255	0.313
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	23.16	24.00	1.213	-	-	-0.08	0.267	0.324
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	22.22	23.00	1.197	-	-	0.13	0.221	0.264
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	23.19	24.00	1.205	-	-	0.12	0.090	0.108
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	22.22	23.00	1.197	-	-	0.03	0.070	0.084
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	23.19	24.00	1.205	-	-	0.18	0.146	0.176



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	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	22.22	23.00	1.197	-	-	0.16	0.118	0.141
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	23.19	24.00	1.205	-	-	-0.1	0.172	0.207
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	22.22	23.00	1.197	-	-	0.07	0.143	0.171
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	21100	2535	22.39	23.50	1.291	-	-	0.05	0.493	0.637
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	21100	2535	22.35	23.00	1.161	-	-	-0.11	0.401	0.466
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	21100	2535	22.39	23.50	1.291	-	-	-0.12	0.628	0.811
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	20850	2510	22.17	23.50	1.358	-	-	0.03	0.586	0.796
22	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	21350	2560	22.27	23.50	1.327	-	-	0.05	0.642	0.852
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	21100	2535	22.35	23.00	1.161	-	-	-0.16	0.545	0.633
	LTE Band 7 Other PA	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	21100	2535	22.24	23.00	1.191	-	-	-0.02	0.544	0.648
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	21100	2535	22.39	23.50	1.291	-	-	0.15	0.234	0.302
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	21100	2535	22.35	23.00	1.161	-	-	-0.09	0.191	0.222
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	21100	2535	22.39	23.50	1.291	-	-	0.11	0.352	0.455
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	21100	2535	22.35	23.00	1.161	-	-	-0.05	0.277	0.322
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	23.15	24.00	1.216	62.9	1.006	-0.04	0.170	0.208
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 1	DSI 2	40620+ 40818	2593+ 2612.8	23.10	24.00	1.230	62.9	1.006	-0.04	0.155	0.192
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	-0.08	0.134	0.172
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	23.15	24.00	1.216	62.9	1.006	-0.13	0.050	0.061
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	-0.13	0.041	0.053
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	23.15	24.00	1.216	62.9	1.006	0.06	0.095	0.116
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	-0.03	0.074	0.095
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	23.15	24.00	1.216	62.9	1.006	-0.03	0.113	0.138
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	21.94	23.00	1.276	62.9	1.006	0.08	0.091	0.117
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	26.14	27.00	1.219	42.9	1.009	-0.07	0.223	0.274
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 1	DSI 2	40620+ 40818	2593+ 2612.8	26.09	27.00	1.233	42.9	1.009	0.03	0.198	0.246
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	40620	2593	18.35	19.10	1.189	62.9	1.006	-0.08	0.377	0.451
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	40620	2593	17.69	19.00	1.352	62.9	1.006	0.02	0.298	0.405
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	18.35	19.10	1.189	62.9	1.006	-0.18	0.599	0.716
	LTE Band 41C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 4	DSI 2	40620+ 40818	2593+ 2612.8	18.31	19.10	1.199	62.9	1.006	0.09	0.529	0.638
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	39750	2506	18.31	19.10	1.199	62.9	1.006	0.16	0.549	0.662
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40185	2549.5	18.33	19.10	1.194	62.9	1.006	0.02	0.507	0.609
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41055	2636.5	18.29	19.10	1.205	62.9	1.006	0.16	0.424	0.514
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41490	2680	18.13	19.10	1.250	62.9	1.006	-0.03	0.423	0.532
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	17.69	19.00	1.352	62.9	1.006	0.07	0.417	0.567
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	17.59	19.00	1.384	62.9	1.006	0	0.410	0.571
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	40620	2593	18.35	19.10	1.189	62.9	1.006	0.01	0.274	0.328
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	40620	2593	17.69	19.00	1.352	62.9	1.006	-0.01	0.222	0.302
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	18.35	19.10	1.189	62.9	1.006	-0.06	0.289	0.346
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	17.69	19.00	1.352	62.9	1.006	-0.04	0.225	0.306
23	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	20.05	20.70	1.161	42.9	1.009	0.02	0.654	0.766
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 4	DSI 2	40620+ 40818	2593+ 2612.8	20.00	20.70	1.175	42.9	1.009	-0.04	0.639	0.758
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	39750	2506	20.01	20.70	1.172	42.9	1.009	-0.01	0.642	0.759
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40185	2549.5	19.98	20.70	1.180	42.9	1.009	0.05	0.593	0.706
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41055	2636.5	20.02	20.70	1.169	42.9	1.009	0.09	0.496	0.585
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41490	2680	20.02	20.70	1.169	42.9	1.009	-0.11	0.495	0.584
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	22.17	23.00	1.211	62.9	1.006	0.18	0.046	0.056
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	21.11	22.00	1.227	62.9	1.006	-0.1	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	22.17	23.00	1.211	62.9	1.006	0.01	0.055	0.067
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	21.11	22.00	1.227	62.9	1.006	-0.15	0.042	0.052
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	22.17	23.00	1.211	62.9	1.006	0.19	0.082	0.100



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	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 0	DSI 2	40620+40818	2593+2612.8	22.01	23.00	1.256	62.9	1.006	-0.04	0.077	0.097
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	21.11	22.00	1.227	62.9	1.006	0.07	0.069	0.085
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	22.17	23.00	1.211	62.9	1.006	-0.18	0.037	0.045
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	21.11	22.00	1.227	62.9	1.006	0.03	0.034	0.042
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	25.11	26.00	1.227	42.9	1.009	-0.15	0.111	0.137
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 0	DSI 2	40620+40818	2593+2612.8	25.01	26.00	1.256	42.9	1.009	0.04	0.103	0.131
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	DSI 2	40620	2593	19.97	21.00	1.268	62.9	1.006	-0.15	0.030	0.038
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 10	DSI 2	40620+40818	2593+2612.8	19.78	21.00	1.324	62.9	1.006	0.04	0.023	0.031
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	DSI 2	40620	2593	18.72	20.00	1.343	62.9	1.006	0.11	0.027	0.036
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	DSI 2	40620	2593	19.97	21.00	1.268	62.9	1.006	-0.08	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	DSI 2	40620	2593	18.72	20.00	1.343	62.9	1.006	-0.17	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 10	DSI 2	40620	2593	19.97	21.00	1.268	62.9	1.006	-0.08	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 10	DSI 2	40620	2593	18.72	20.00	1.343	62.9	1.006	-0.04	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	DSI 2	40620	2593	19.97	21.00	1.268	62.9	1.006	-0.08	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 10	DSI 2	40620	2593	18.72	20.00	1.343	62.9	1.006	0.17	0.000	0.000
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	DSI 2	40620	2593	23.02	24.00	1.253	42.9	1.009	0.18	0.045	0.057
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 10	DSI 2	40620+40818	2593+2612.8	22.91	24.00	1.285	42.9	1.009	0.04	0.041	0.053
24	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	23.32	24.00	1.169	-	-	0.05	0.253	0.296
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	23.31	24.00	1.172	-	-	-0.09	0.251	0.294
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	23.32	24.00	1.169	-	-	-0.17	0.077	0.090
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	23.31	24.00	1.172	-	-	-0.1	0.076	0.089
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	23.32	24.00	1.169	-	-	0.18	0.130	0.152
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	23.31	24.00	1.172	-	-	-0.17	0.126	0.148
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	23.32	24.00	1.169	-	-	-0.04	0.159	0.186
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	23.31	24.00	1.172	-	-	-0.05	0.157	0.184
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	26.41	27.00	1.146	-	-	-0.02	0.401	0.459
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	26.26	27.00	1.186	-	-	0	0.303	0.359
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	26.41	27.00	1.146	-	-	-0.13	0.120	0.137
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	26.26	27.00	1.186	-	-	-0.01	0.094	0.111
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	26.41	27.00	1.146	-	-	-0.09	0.191	0.219
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	26.26	27.00	1.186	-	-	0.05	0.154	0.183
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	26.41	27.00	1.146	-	-	0.02	0.249	0.285
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	26.26	27.00	1.186	-	-	-0.13	0.179	0.212
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.29	18.00	1.178	-	-	0.17	0.646	0.761
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.25	18.00	1.189	-	-	0.06	0.397	0.472
25	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.29	18.00	1.178	-	-	-0.15	0.745	0.877
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.25	18.00	1.189	-	-	-0.04	0.447	0.531
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.00	18.00	1.259	-	-	-0.15	0.490	0.617
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.29	18.00	1.178	-	-	0.11	0.369	0.435
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	518598	2592.99	17.25	18.00	1.189	-	-	-0.02	0.279	0.332
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.29	18.00	1.178	-	-	0.04	0.472	0.556
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	518598	2592.99	17.25	18.00	1.189	-	-	0.13	0.272	0.323
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	25.33	26.00	1.167	-	-	-0.11	0.175	0.204
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	DSI 2	518598	2592.99	25.08	26.00	1.236	-	-	-0.16	0.114	0.141
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	518598	2592.99	25.33	26.00	1.167	-	-	-0.15	0.207	0.242
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	DSI 2	518598	2592.99	25.08	26.00	1.236	-	-	-0.06	0.113	0.140
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	25.33	26.00	1.167	-	-	-0.14	0.327	0.382
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	DSI 2	518598	2592.99	25.08	26.00	1.236	-	-	-0.19	0.199	0.246
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	518598	2592.99	25.33	26.00	1.167	-	-	0.01	0.108	0.126
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	DSI 2	518598	2592.99	25.08	26.00	1.236	-	-	0.06	0.070	0.087
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 2	518598	2592.99	23.14	24.00	1.219	-	-	0.02	0.066	0.080
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	0.12	0.058	0.074
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 2	518598	2592.99	23.14	24.00	1.219	-	-	-0.16	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	-0.12	0.000	0.000



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	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 2	518598	2592.99	23.14	24.00	1.219	-	-	0.07	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	-0.02	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 2	518598	2592.99	23.14	24.00	1.219	-	-	-0.05	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 2	518598	2592.99	22.97	24.00	1.268	-	-	-0.13	0.000	0.000
3500MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	55830	3609	20.08	21.40	1.355	62.9	1.006	0.05	0.526	0.717
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	55340	3560	19.98	21.40	1.387	62.9	1.006	0.06	0.497	0.693
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	56150	3641	20.07	21.40	1.358	62.9	1.006	-0.09	0.576	0.787
26	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	56640	3690	19.98	21.40	1.387	62.9	1.006	-0.08	0.642	0.896
	LTE Band 48C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	56640+56442	3690+3670.2	15.89	17.40	1.416	62.9	1.006	0.01	0.301	0.429
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 2	55830	3609	20.04	21.40	1.368	62.9	1.006	0.13	0.437	0.601
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 2	55340	3560	19.94	21.40	1.400	62.9	1.006	0.12	0.401	0.565
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 2	56150	3641	20.03	21.40	1.371	62.9	1.006	0.03	0.460	0.634
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 2	56640	3690	20.01	21.40	1.377	62.9	1.006	0.18	0.518	0.718
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 2	55830	3609	20.01	21.40	1.377	62.9	1.006	0.16	0.431	0.597
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 2	55830	3609	20.08	21.40	1.355	62.9	1.006	-0.1	0.309	0.421
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 2	55830	3609	20.04	21.40	1.368	62.9	1.006	0.01	0.251	0.345
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	55830	3609	20.08	21.40	1.355	62.9	1.006	0.03	0.145	0.198
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 2	55830	3609	20.04	21.40	1.368	62.9	1.006	-0.15	0.116	0.160
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	55830	3609	20.08	21.40	1.355	62.9	1.006	-0.15	0.136	0.185
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 2	55830	3609	20.04	21.40	1.368	62.9	1.006	0.11	0.104	0.143
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	641666	3624.99	18.04	19.00	1.247	-	-	0.05	0.644	0.803
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	640000	3600	17.99	19.00	1.262	-	-	0.11	0.498	0.628
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	643332	3649.98	17.89	19.00	1.291	-	-	-0.05	0.613	0.792
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	641666	3624.99	17.89	19.00	1.291	-	-	-0.08	0.636	0.821
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	640000	3600	17.81	19.00	1.315	-	-	0.16	0.504	0.663
27	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	643332	3649.98	17.79	19.00	1.321	-	-	-0.05	0.668	0.883
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	641666	3624.99	17.65	19.00	1.365	-	-	0.05	0.430	0.587
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	641666	3624.99	18.04	19.00	1.247	-	-	-0.03	0.250	0.312
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	641666	3624.99	17.89	19.00	1.291	-	-	0.07	0.259	0.334
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	641666	3624.99	18.04	19.00	1.247	-	-	0.02	0.136	0.170
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	641666	3624.99	17.89	19.00	1.291	-	-	0.16	0.146	0.189
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	641666	3624.99	18.04	19.00	1.247	-	-	-0.03	0.111	0.138
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	641666	3624.99	17.89	19.00	1.291	-	-	0.07	0.112	0.145
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	641666	3624.99	17.43	18.00	1.140	-	-	-0.15	0.315	0.359
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	641666	3624.99	17.37	18.00	1.156	-	-	0.11	0.326	0.377
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	641666	3624.99	17.43	18.00	1.140	-	-	-0.08	0.324	0.369
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	641666	3624.99	17.37	18.00	1.156	-	-	-0.17	0.335	0.387
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	641666	3624.99	17.43	18.00	1.140	-	-	-0.08	0.457	0.521
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	641666	3624.99	17.37	18.00	1.156	-	-	-0.04	0.459	0.531
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	641666	3624.99	17.43	18.00	1.140	-	-	-0.08	0.429	0.489
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	641666	3624.99	17.37	18.00	1.156	-	-	0.17	0.469	0.542
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	641666	3624.99	24.23	24.50	1.064	-	-	-0.04	0.268	0.285
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	641666	3624.99	24.22	24.50	1.067	-	-	-0.08	0.294	0.314
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	641666	3624.99	24.23	24.50	1.064	-	-	-0.13	0.101	0.107
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	641666	3624.99	24.22	24.50	1.067	-	-	-0.13	0.105	0.112
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	24.23	24.50	1.064	-	-	0.06	0.114	0.121
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	24.22	24.50	1.067	-	-	-0.03	0.120	0.128
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	641666	3624.99	24.23	24.50	1.064	-	-	-0.03	0.148	0.157
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	641666	3624.99	24.22	24.50	1.067	-	-	0.08	0.148	0.158
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	0.05	0.212	0.232
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	-0.11	0.215	0.235
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	-0.12	0.205	0.224
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	0.03	0.206	0.225
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	-0.16	0.421	0.461
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	-0.02	0.410	0.449



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	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	0.15	0.199	0.218
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	641666	3624.99	17.61	18.00	1.094	-	-	-0.09	0.233	0.255
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	15.83	17.00	1.309	-	-	0.08	0.558	0.731
28	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	15.73	17.00	1.340	-	-	-0.02	0.654	0.876
	FR1 n77 Part 270	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	656000	3840	15.54	17.00	1.400	-	-	0.16	0.487	0.682
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	656000	3840	15.83	17.00	1.309	-	-	0.01	0.297	0.389
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	656000	3840	15.73	17.00	1.340	-	-	-0.16	0.347	0.465
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	656000	3840	15.83	17.00	1.309	-	-	-0.04	0.181	0.237
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	656000	3840	15.73	17.00	1.340	-	-	-0.01	0.209	0.280
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	656000	3840	15.83	17.00	1.309	-	-	-0.11	0.134	0.175
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	656000	3840	15.73	17.00	1.340	-	-	-0.06	0.159	0.213
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	15.79	17.00	1.321	-	-	-0.04	0.336	0.444
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	633334	3500.01	15.75	17.00	1.334	-	-	0.03	0.319	0.425
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	15.79	17.00	1.321	-	-	0.16	0.171	0.226
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	633334	3500.01	15.75	17.00	1.334	-	-	-0.15	0.172	0.229
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	15.79	17.00	1.321	-	-	-0.09	0.087	0.115
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	633334	3500.01	15.75	17.00	1.334	-	-	0.14	0.086	0.115
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	15.79	17.00	1.321	-	-	-0.09	0.074	0.098
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	633334	3500.01	15.75	17.00	1.334	-	-	0.07	0.072	0.096
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	656000	3840	18.59	20.10	1.416	-	-	0	0.265	0.375
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	656000	3840	18.40	20.10	1.479	-	-	0.01	0.297	0.439
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	656000	3840	18.59	20.10	1.416	-	-	-0.01	0.277	0.392
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	656000	3840	18.40	20.10	1.479	-	-	-0.06	0.304	0.450
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	18.59	20.10	1.416	-	-	-0.04	0.406	0.575
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	18.40	20.10	1.479	-	-	-0.09	0.376	0.556
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	18.59	20.10	1.416	-	-	-0.1	0.397	0.562
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	18.40	20.10	1.479	-	-	0.18	0.354	0.524
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	633334	3500.01	19.14	20.10	1.247	-	-	-0.04	0.153	0.191
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 2	633334	3500.01	19.13	20.10	1.250	-	-	-0.05	0.215	0.269
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	633334	3500.01	19.14	20.10	1.247	-	-	0	0.156	0.195
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 2	633334	3500.01	19.13	20.10	1.250	-	-	-0.13	0.228	0.285
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	19.14	20.10	1.247	-	-	-0.01	0.213	0.266
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 2	633334	3500.01	19.13	20.10	1.250	-	-	-0.09	0.308	0.385
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	633334	3500.01	19.14	20.10	1.247	-	-	0.05	0.227	0.283
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 2	633334	3500.01	19.13	20.10	1.250	-	-	0.02	0.306	0.383
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	27.34	28.00	1.164	-	-	-0.08	0.635	0.739
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	27.21	28.00	1.199	-	-	-0.16	0.622	0.746
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	27.34	28.00	1.164	-	-	-0.07	0.217	0.253
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	27.21	28.00	1.199	-	-	0.11	0.243	0.291
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	27.34	28.00	1.164	-	-	-0.08	0.311	0.362
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	27.21	28.00	1.199	-	-	-0.1	0.319	0.383
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	27.34	28.00	1.164	-	-	-0.01	0.357	0.416
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	27.21	28.00	1.199	-	-	-0.09	0.381	0.457
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	633334	3500.01	27.10	28.00	1.230	-	-	-0.05	0.297	0.365
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	633334	3500.01	26.83	28.00	1.309	-	-	-0.17	0.291	0.381
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	633334	3500.01	27.10	28.00	1.230	-	-	-0.01	0.133	0.164
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	633334	3500.01	26.83	28.00	1.309	-	-	-0.11	0.122	0.160
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	27.10	28.00	1.230	-	-	0.14	0.163	0.201
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	26.83	28.00	1.309	-	-	0.03	0.156	0.204
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	633334	3500.01	27.10	28.00	1.230	-	-	0.1	0.212	0.261
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	633334	3500.01	26.83	28.00	1.309	-	-	0.16	0.191	0.250
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	16.65	18.00	1.365	-	-	-0.03	0.097	0.132
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	16.58	18.00	1.387	-	-	0.07	0.084	0.116
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	656000	3840	16.65	18.00	1.365	-	-	-0.12	0.104	0.142
	FR1 n77 Part 270	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	656000	3840	16.58	18.00	1.387	-	-	-0.03	0.090	0.125
	FR1 n77 Part 270	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	656000	3840	16.65	18.00	1.365	-	-	-0.03	0.291	0.397



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	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	656000	3840	16.58	18.00	1.387	-	-	0.02	0.234	0.325
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	16.65	18.00	1.365	-	-	0.12	0.175	0.239
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	16.58	18.00	1.387	-	-	0.02	0.148	0.205
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	17.49	18.00	1.125	-	-	-0.03	0.100	0.112
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	17.46	18.00	1.132	-	-	0	0.154	0.174
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	17.49	18.00	1.125	-	-	-0.1	0.085	0.096
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	17.46	18.00	1.132	-	-	0.05	0.128	0.145
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	17.49	18.00	1.125	-	-	0	0.400	0.450
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	17.46	18.00	1.132	-	-	0.07	0.591	0.669
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	17.49	18.00	1.125	-	-	0.15	0.158	0.178
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	17.46	18.00	1.132	-	-	-0.05	0.249	0.282

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	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)
WLAN/BT																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6	Receiver on	11	2462	18.50	20.00	1.413	98.26	1.018	0.08	0.410	0.590
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6	Receiver on	11	2462	18.50	20.00	1.413	98.26	1.018	0.01	0.480	0.690
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Receiver on	11	2462	18.50	20.00	1.413	98.26	1.018	0.03	0.877	1.261
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Receiver on	1	2412	18.02	20.00	1.578	98.26	1.018	-0.08	0.837	1.344
29	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Receiver on	6	2437	18.43	20.00	1.435	98.26	1.018	0.08	0.942	1.377
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Receiver on	11	2462	18.50	20.00	1.413	98.26	1.018	0.1	0.739	1.063
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Receiver on	1	2412	18.02	20.00	1.578	98.26	1.018	-0.18	0.741	1.190
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6	Receiver on	6	2437	18.43	20.00	1.435	98.26	1.018	0.1	0.785	1.147
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Receiver on	6	2462	18.41	20.00	1.442	98.00	1.020	0.09	0.792	1.165
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	6	2437	13.49	15.00	1.416	98.26	1.018	-0.08	0.243	0.350
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.08	0.083	0.112
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	-0.17	0.105	0.142
30	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	-0.05	0.211	0.286
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	-0.03	0.172	0.233
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	39	2441	13.37	15.00	1.456	76.79	1.085	0.03	0.177	0.280
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	78	2480	13.40	15.00	1.446	76.79	1.085	0.01	0.171	0.268
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 7	Receiver on	58	5290	16.59	18.50	1.552	100	1.000	0.11	0.211	0.328
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 7	Receiver on	58	5290	16.59	18.50	1.552	100	1.000	-0.05	0.207	0.321
31	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Receiver on	58	5290	16.59	18.50	1.552	100	1.000	0.03	0.755	1.172
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 7	Receiver on	58	5290	16.59	18.50	1.552	100	1.000	0.14	0.541	0.840
	WLAN 5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Simultaneous	58	5290	12.36	13.50	1.300	100	1.000	0.18	0.266	0.346
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 7	Receiver on	106	5530	15.67	17.50	1.524	100	1.000	0.17	0.214	0.326
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 7	Receiver on	106	5530	15.67	17.50	1.524	100	1.000	-0.05	0.198	0.302
32	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Receiver on	106	5530	15.67	17.50	1.524	100	1.000	-0.03	0.785	1.196
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Receiver on	122	5610	15.61	17.50	1.545	100	1.000	0.1	0.742	1.147
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Receiver on	138	5690	15.63	17.50	1.538	100	1.000	-0.17	0.746	1.147
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 7	Receiver on	106	5530	15.67	17.50	1.524	100	1.000	0.04	0.502	0.765
	WLAN 5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Simultaneous	106	5530	11.35	11.50	1.035	100	1.000	0.01	0.349	0.361
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 7	Receiver on	155	5775	15.74	17.50	1.500	100	1.000	-0.08	0.228	0.342
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 7	Receiver on	155	5775	15.74	17.50	1.500	100	1.000	0.05	0.207	0.310
33	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Receiver on	155	5775	15.74	17.50	1.500	100	1.000	0.02	0.786	1.179
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 7	Receiver on	155	5775	15.74	17.50	1.500	100	1.000	-0.09	0.511	0.766
	WLAN 5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 7	Simultaneous	155	5775	10.67	11.50	1.211	100	1.000	0.06	0.326	0.395



16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	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)
750MHz																				
34	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	133322	683	23.09	24.00	1.233	-	-	0.08	0.630	0.777
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	133322	683	22.12	23.00	1.225	-	-	0.01	0.425	0.520
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	133322	683	23.09	24.00	1.233	-	-	0.04	0.852	1.051
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	133322	683	22.12	23.00	1.225	-	-	-0.08	0.609	0.746
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	ECI 7	133322	683	22.07	23.00	1.239	-	-	-0.08	0.606	0.751
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	133322	683	23.09	24.00	1.233	-	-	0.19	0.712	0.878
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	133322	683	22.12	23.00	1.225	-	-	0.07	0.542	0.664
	LTE Band 71	20M	QPSK	100	0	-	Left Side	5mm	Ant 0	ECI 7	133322	683	22.07	23.00	1.239	-	-	-0.18	0.537	0.665
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	133322	683	23.09	24.00	1.233	-	-	0.03	0.154	0.190
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	ECI 7	133322	683	22.12	23.00	1.225	-	-	-0.15	0.126	0.154
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	133322	683	23.09	24.00	1.233	-	-	-0.15	0.760	0.937
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	133322	683	22.12	23.00	1.225	-	-	0.11	0.627	0.768
	LTE Band 71	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	ECI 7	133322	683	22.07	23.00	1.239	-	-	-0.08	0.625	0.774
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	133322	683	23.19	24.00	1.205	-	-	0.1	0.257	0.310
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	133322	683	22.09	23.00	1.233	-	-	-0.18	0.211	0.260
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	133322	683	23.19	24.00	1.205	-	-	-0.02	0.553	0.666
35	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	133322	683	22.09	23.00	1.233	-	-	0.1	0.464	0.572
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	133322	683	23.19	24.00	1.205	-	-	-0.08	0.197	0.237
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	133322	683	22.09	23.00	1.233	-	-	-0.08	0.165	0.203
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	133322	683	23.19	24.00	1.205	-	-	0.1	0.127	0.153
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	133322	683	22.09	23.00	1.233	-	-	-0.18	0.107	0.132
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	133322	683	23.19	24.00	1.205	-	-	0.1	0.325	0.392
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	133322	683	22.09	23.00	1.233	-	-	0.12	0.273	0.337
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	22.99	24.00	1.262	-	-	0.12	0.740	0.934
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	21.92	23.00	1.282	-	-	0.08	0.589	0.755
	LTE Band 12	10M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	23095	707.5	21.88	23.00	1.294	-	-	-0.17	0.586	0.758
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	22.99	24.00	1.262	-	-	0.19	1.020	1.287
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	21.92	23.00	1.282	-	-	-0.03	0.793	1.017
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23095	707.5	21.88	23.00	1.294	-	-	0.14	0.790	1.022
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	22.99	24.00	1.262	-	-	0.18	0.882	1.113
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	21.92	23.00	1.282	-	-	0.14	0.717	0.919
	LTE Band 12	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	23095	707.5	21.88	23.00	1.294	-	-	-0.17	0.720	0.932
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23095	707.5	22.99	24.00	1.262	-	-	0.17	0.193	0.244
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23095	707.5	21.92	23.00	1.282	-	-	-0.05	0.148	0.190
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	22.99	24.00	1.262	-	-	0.02	0.959	1.210
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	21.92	23.00	1.282	-	-	0.01	0.734	0.941
	LTE Band 12	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	23095	707.5	21.88	23.00	1.294	-	-	0.1	0.734	0.950
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	23095	707.5	20.04	20.90	1.219	-	-	0.06	0.211	0.257
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	23095	707.5	20.00	20.90	1.230	-	-	-0.09	0.169	0.208
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	23095	707.5	20.04	20.90	1.219	-	-	0.03	0.513	0.625
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	23095	707.5	20.00	20.90	1.230	-	-	-0.08	0.412	0.507
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	23095	707.5	20.04	20.90	1.219	-	-	0.12	0.101	0.123
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	23095	707.5	20.00	20.90	1.230	-	-	0.03	0.082	0.101
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	23095	707.5	20.04	20.90	1.219	-	-	0.18	0.090	0.110
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	23095	707.5	20.00	20.90	1.230	-	-	0.16	0.074	0.091
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	23095	707.5	20.04	20.90	1.219	-	-	-0.1	0.311	0.379
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	23095	707.5	20.00	20.90	1.230	-	-	0.07	0.245	0.301
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23230	782	22.92	24.00	1.282	-	-	-0.15	0.747	0.958
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23230	782	22.01	23.00	1.256	-	-	0.19	0.593	0.745
	LTE Band 13	10M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	23230	782	21.98	23.00	1.265	-	-	0.07	0.593	0.750



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36	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23230	782	22.92	24.00	1.282	-	-	-0.18	1.000	1.282
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23230	782	22.01	23.00	1.256	-	-	0.03	0.795	0.999
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23230	782	21.98	23.00	1.265	-	-	-0.15	0.795	1.005
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	22.92	24.00	1.282	-	-	-0.15	0.860	1.103
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	22.01	23.00	1.256	-	-	0.11	0.687	0.863
	LTE Band 13	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	23230	782	21.98	23.00	1.265	-	-	-0.08	0.690	0.873
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23230	782	22.92	24.00	1.282	-	-	-0.17	0.185	0.237
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23230	782	22.01	23.00	1.256	-	-	-0.08	0.142	0.178
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	22.92	24.00	1.282	-	-	0.06	0.959	1.230
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	22.01	23.00	1.256	-	-	-0.04	0.752	0.945
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	23230	782	21.98	23.00	1.265	-	-	-0.08	0.748	0.946
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	23230	782	20.05	20.90	1.216	-	-	-0.13	0.255	0.310
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	23230	782	19.93	20.90	1.250	-	-	-0.13	0.204	0.255
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	23230	782	20.05	20.90	1.216	-	-	-0.1	0.510	0.620
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	23230	782	19.93	20.90	1.250	-	-	0.06	0.408	0.510
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	23230	782	20.05	20.90	1.216	-	-	-0.03	0.119	0.145
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	23230	782	19.93	20.90	1.250	-	-	0.08	0.095	0.119
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	23230	782	20.05	20.90	1.216	-	-	-0.07	0.088	0.107
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	23230	782	19.93	20.90	1.250	-	-	0.05	0.070	0.088
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	23230	782	20.05	20.90	1.216	-	-	-0.11	0.259	0.315
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	23230	782	19.93	20.90	1.250	-	-	-0.12	0.205	0.256
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	0.05	0.574	0.718
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	ECI 7	23330	793	21.98	23.00	1.265	-	-	0.06	0.455	0.575
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	0.02	0.783	0.979
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	ECI 7	23330	793	21.98	23.00	1.265	-	-	-0.08	0.617	0.780
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	23330	793	21.94	23.00	1.276	-	-	0.13	0.617	0.788
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	0.07	0.899	1.124
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	ECI 7	23330	793	21.98	23.00	1.265	-	-	0.16	0.709	0.897
	LTE Band 14	10M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	23330	793	21.94	23.00	1.276	-	-	0.13	0.710	0.906
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	-0.18	0.185	0.231
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	ECI 7	23330	793	21.98	23.00	1.265	-	-	0.02	0.144	0.182
37	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	0.03	1.030	1.288
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	21.98	23.00	1.265	-	-	0.16	0.819	1.036
	LTE Band 14	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	21.94	23.00	1.276	-	-	-0.03	0.815	1.040
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	23330	793	20.65	21.40	1.189	-	-	-0.06	0.250	0.297
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	23330	793	20.59	21.40	1.205	-	-	-0.04	0.198	0.239
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	23330	793	20.65	21.40	1.189	-	-	0.13	0.524	0.623
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	23330	793	20.59	21.40	1.205	-	-	-0.09	0.421	0.507
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	23330	793	20.65	21.40	1.189	-	-	-0.1	0.103	0.122
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	23330	793	20.59	21.40	1.205	-	-	0.18	0.064	0.077
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	23330	793	20.65	21.40	1.189	-	-	-0.17	0.086	0.102
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	23330	793	20.59	21.40	1.205	-	-	-0.04	0.069	0.083
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	23330	793	20.65	21.40	1.189	-	-	-0.05	0.267	0.317
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	23330	793	20.59	21.40	1.205	-	-	0	0.215	0.259
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	136100	680.5	23.16	24.00	1.213	-	-	-0.09	0.540	0.655
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	136100	680.5	23.13	24.00	1.222	-	-	0.05	0.504	0.616
38	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	136100	680.5	23.16	24.00	1.213	-	-	0.11	0.705	0.855
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	136100	680.5	23.13	24.00	1.222	-	-	0.02	0.640	0.782
	FR1 n71	35M	QPSK	188	0	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	136100	680.5	22.24	23.00	1.191	-	-	-0.13	0.537	0.640
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	136100	680.5	23.16	24.00	1.213	-	-	0.17	0.510	0.619
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	136100	680.5	23.13	24.00	1.222	-	-	0.06	0.484	0.591
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	136100	680.5	23.16	24.00	1.213	-	-	0	0.000	0.000
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	136100	680.5	23.13	24.00	1.222	-	-	-0.04	0.000	0.000
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	136100	680.5	23.16	24.00	1.213	-	-	-0.15	0.619	0.751
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	136100	680.5	23.13	24.00	1.222	-	-	0.11	0.438	0.535
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	136100	680.5	23.33	24.00	1.167	-	-	-0.12	0.246	0.287



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	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	136100	680.5	23.22	24.00	1.197	-	-	0.15	0.206	0.247
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	136100	680.5	23.33	24.00	1.167	-	-	-0.05	0.517	0.603
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	136100	680.5	23.22	24.00	1.197	-	-	-0.07	0.411	0.492
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	136100	680.5	23.33	24.00	1.167	-	-	0.1	0.164	0.191
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	136100	680.5	23.22	24.00	1.197	-	-	-0.11	0.116	0.139
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	136100	680.5	23.33	24.00	1.167	-	-	-0.02	0.087	0.102
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	136100	680.5	23.22	24.00	1.197	-	-	-0.1	0.083	0.099
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	136100	680.5	23.33	24.00	1.167	-	-	0.14	0.295	0.344
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	136100	680.5	23.22	24.00	1.197	-	-	0.04	0.245	0.293
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	141500	707.5	23.19	24.00	1.205	-	-	0.01	0.415	0.500
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	141500	707.5	23.17	24.00	1.211	-	-	-0.15	0.449	0.544
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	141500	707.5	23.19	24.00	1.205	-	-	0.19	0.574	0.692
39	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	141500	707.5	23.17	24.00	1.211	-	-	0.02	0.625	0.757
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	141500	707.5	23.19	24.00	1.205	-	-	-0.18	0.479	0.577
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	141500	707.5	23.17	24.00	1.211	-	-	-0.16	0.493	0.597
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	141500	707.5	23.19	24.00	1.205	-	-	-0.15	0.088	0.106
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	141500	707.5	23.17	24.00	1.211	-	-	-0.06	0.099	0.120
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	141500	707.5	23.19	24.00	1.205	-	-	-0.14	0.433	0.522
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	141500	707.5	23.17	24.00	1.211	-	-	-0.19	0.460	0.557
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	141500	707.5	21.35	22.40	1.274	-	-	0.01	0.179	0.228
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	141500	707.5	21.27	22.40	1.297	-	-	0.06	0.204	0.265
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	141500	707.5	21.35	22.40	1.274	-	-	0.02	0.454	0.578
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	141500	707.5	21.27	22.40	1.297	-	-	0.08	0.494	0.641
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	141500	707.5	21.35	22.40	1.274	-	-	-0.05	0.089	0.113
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	141500	707.5	21.27	22.40	1.297	-	-	-0.13	0.096	0.125
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	141500	707.5	21.35	22.40	1.274	-	-	0.08	0.054	0.069
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	141500	707.5	21.27	22.40	1.297	-	-	0.16	0.069	0.090
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	141500	707.5	21.35	22.40	1.274	-	-	0.01	0.237	0.302
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	141500	707.5	21.27	22.40	1.297	-	-	-0.16	0.372	0.483
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	158600	793	23.29	24.00	1.178	-	-	-0.04	0.581	0.684
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	158600	793	23.21	24.00	1.199	-	-	-0.08	0.556	0.667
40	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	158600	793	23.29	24.00	1.178	-	-	0.06	0.758	0.893
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	158600	793	23.21	24.00	1.199	-	-	0.17	0.740	0.888
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	158600	793	22.39	23.00	1.151	-	-	0.18	0.624	0.718
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	158600	793	23.29	24.00	1.178	-	-	-0.11	0.615	0.724
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	158600	793	23.21	24.00	1.199	-	-	-0.06	0.611	0.733
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	158600	793	23.29	24.00	1.178	-	-	-0.15	0.116	0.137
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	158600	793	23.21	24.00	1.199	-	-	0.03	0.119	0.143
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	158600	793	23.29	24.00	1.178	-	-	-0.13	0.670	0.789
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	158600	793	23.21	24.00	1.199	-	-	0.16	0.658	0.789
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	158600	793	21.52	22.70	1.312	-	-	-0.02	0.252	0.331
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	158600	793	21.34	22.70	1.368	-	-	-0.09	0.252	0.345
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	158600	793	21.52	22.70	1.312	-	-	-0.08	0.472	0.619
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	158600	793	21.34	22.70	1.368	-	-	0.14	0.455	0.622
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	158600	793	21.32	22.70	1.374	-	-	0.1	0.394	0.541
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	158600	793	21.52	22.70	1.312	-	-	-0.09	0.095	0.125
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	158600	793	21.34	22.70	1.368	-	-	0.07	0.099	0.135
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	158600	793	21.52	22.70	1.312	-	-	-0.09	0.083	0.109
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	158600	793	21.34	22.70	1.368	-	-	-0.16	0.081	0.111
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	158600	793	21.52	22.70	1.312	-	-	-0.18	0.227	0.298
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	158600	793	21.34	22.70	1.368	-	-	-0.07	0.307	0.420
835MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	ECI 7	189	836.4	25.81	27.10	1.346	-	-	0.06	0.595	0.801
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	ECI 7	128	824.2	25.72	27.10	1.374	-	-	-0.03	0.627	0.862
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	ECI 7	251	848.8	25.64	27.10	1.400	-	-	-0.03	0.484	0.677
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	ECI 7	189	836.4	25.81	27.10	1.346	-	-	0.08	0.789	1.062



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41	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	ECI 7	128	824.2	25.72	27.10	1.374	-	-	-0.09	0.924	1.270
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	ECI 7	251	848.8	25.64	27.10	1.400	-	-	-0.07	0.690	0.966
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	ECI 7	189	836.4	25.81	27.10	1.346	-	-	-0.17	0.512	0.689
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	ECI 7	189	836.4	25.81	27.10	1.346	-	-	0.14	0.090	0.121
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	ECI 7	189	836.4	25.81	27.10	1.346	-	-	0.03	0.631	0.849
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	ECI 7	128	824.2	25.72	27.10	1.374	-	-	0.1	0.722	0.992
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	ECI 7	251	848.8	25.64	27.10	1.400	-	-	0.16	0.603	0.844
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	ECI 7	4182	836.4	21.31	22.70	1.377	-	-	0.05	0.580	0.799
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4182	836.4	21.31	22.70	1.377	-	-	0.03	0.802	1.105
42	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4132	826.4	21.27	22.70	1.390	-	-	-0.06	0.926	1.287
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	ECI 7	4233	846.6	21.30	22.70	1.380	-	-	-0.16	0.717	0.990
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	ECI 7	4182	836.4	21.31	22.70	1.377	-	-	-0.06	0.547	0.753
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	ECI 7	4182	836.4	21.31	22.70	1.377	-	-	0.02	0.099	0.136
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4182	836.4	21.31	22.70	1.377	-	-	0.16	0.647	0.891
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4132	826.4	21.27	22.70	1.390	-	-	0.01	0.658	0.915
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	ECI 7	4233	846.6	21.30	22.70	1.380	-	-	-0.04	0.582	0.803
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	0.08	0.769	0.906
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	22.03	23.00	1.250	-	-	0.01	0.600	0.750
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 0	ECI 7	26865	831.5	22.02	23.00	1.253	-	-	0.03	0.601	0.753
43	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	0.02	1.080	1.272
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	ECI 7	20476+ 20575	831.6+ 841.5	22.24	23.20	1.247	-	-	-0.18	0.923	1.151
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	22.03	23.00	1.250	-	-	-0.08	0.833	1.041
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	22.02	23.00	1.253	-	-	-0.08	0.841	1.054
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	0	0.651	0.767
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	ECI 7	26865	831.5	22.03	23.00	1.250	-	-	-0.03	0.514	0.643
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	-0.12	0.134	0.158
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	ECI 7	26865	831.5	22.03	23.00	1.250	-	-	-0.03	0.103	0.129
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	0.02	0.876	1.032
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	22.03	23.00	1.250	-	-	0.12	0.667	0.834
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	5mm	Ant 0	ECI 7	26865	831.5	22.02	23.00	1.253	-	-	0.02	0.674	0.845
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	26865	831.5	18.24	19.10	1.219	-	-	0.08	0.279	0.340
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	ECI 7	26865	831.5	18.18	19.10	1.236	-	-	0.01	0.222	0.274
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	26865	831.5	18.24	19.10	1.219	-	-	0.02	0.511	0.623
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 4	ECI 7	20476+ 20575	831.6+ 841.5	18.11	19.10	1.256	-	-	0.1	0.462	0.580
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	ECI 7	26865	831.5	18.18	19.10	1.236	-	-	-0.08	0.409	0.506
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	26865	831.5	18.24	19.10	1.219	-	-	0.1	0.098	0.119
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 4	ECI 7	26865	831.5	18.18	19.10	1.236	-	-	-0.18	0.078	0.096
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	26865	831.5	18.24	19.10	1.219	-	-	0.1	0.078	0.095
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 4	ECI 7	26865	831.5	18.18	19.10	1.236	-	-	0.12	0.064	0.079
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	26865	831.5	18.24	19.10	1.219	-	-	0.08	0.269	0.328
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 4	ECI 7	26865	831.5	18.18	19.10	1.236	-	-	-0.17	0.217	0.268
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	166300	831.5	23.33	24.00	1.167	-	-	0.14	0.592	0.691
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Front	5mm	Ant 0	ECI 7	166300	831.5	23.23	24.00	1.194	-	-	0.11	0.542	0.647
44	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	166300	831.5	23.33	24.00	1.167	-	-	0.1	0.837	0.977
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	166300	831.5	23.23	24.00	1.194	-	-	0.18	0.769	0.918
	FR1 n26	20M	QPSK	128	0	DFT-SCS-15KHz	Back	5mm	Ant 0	ECI 7	166300	831.5	22.41	23.00	1.146	-	-	0.14	0.613	0.702
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	166300	831.5	23.33	24.00	1.167	-	-	0.1	0.550	0.642
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Left Side	5mm	Ant 0	ECI 7	166300	831.5	23.23	24.00	1.194	-	-	-0.17	0.579	0.691
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	166300	831.5	23.33	24.00	1.167	-	-	-0.01	0.104	0.121
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Right Side	5mm	Ant 0	ECI 7	166300	831.5	23.23	24.00	1.194	-	-	-0.08	0.097	0.116
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	23.33	24.00	1.167	-	-	0.05	0.650	0.758
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	ECI 7	166300	831.5	23.23	24.00	1.194	-	-	0.06	0.604	0.721
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	166300	831.5	20.46	21.90	1.393	-	-	0.13	0.258	0.359
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	166300	831.5	20.32	21.90	1.439	-	-	0.12	0.259	0.373
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	166300	831.5	20.46	21.90	1.393	-	-	0.04	0.451	0.628



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	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	166300	831.5	20.32	21.90	1.439	-	-	0.03	0.445	0.640
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	166300	831.5	20.46	21.90	1.393	-	-	0.16	0.098	0.137
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	166300	831.5	20.32	21.90	1.439	-	-	-0.1	0.110	0.158
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	166300	831.5	20.46	21.90	1.393	-	-	0.07	0.079	0.110
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	166300	831.5	20.32	21.90	1.439	-	-	0.18	0.078	0.112
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	166300	831.5	20.46	21.90	1.393	-	-	-0.1	0.289	0.403
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	166300	831.5	20.32	21.90	1.439	-	-	0.01	0.275	0.396
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	1413	1732.6	18.14	19.30	1.306	-	-	0.08	0.516	0.674
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	1413	1732.6	18.14	19.30	1.306	-	-	-0.08	0.684	0.893
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	1312	1712.4	18.03	19.30	1.340	-	-	-0.08	0.643	0.861
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	1513	1752.6	18.12	19.30	1.312	-	-	0.1	0.698	0.916
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	ECI 7	1413	1732.6	18.14	19.30	1.306	-	-	-0.18	0.122	0.159
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	ECI 7	1413	1732.6	18.14	19.30	1.306	-	-	0.1	0.220	0.287
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	1413	1732.6	18.14	19.30	1.306	-	-	0.12	0.931	1.216
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	1312	1712.4	18.03	19.30	1.340	-	-	0.08	0.914	1.224
45	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	1513	1752.6	18.12	19.30	1.312	-	-	0.05	0.983	1.290
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	132322	1745	18.70	19.80	1.288	-	-	0.17	0.581	0.748
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	132322	1745	18.61	19.80	1.315	-	-	0.1	0.459	0.604
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	132322	1745	18.70	19.80	1.288	-	-	-0.08	0.686	0.884
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	132072	1720	18.57	19.80	1.327	-	-	0.05	0.650	0.863
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	132572	1770	18.53	19.80	1.340	-	-	0.06	0.683	0.915
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	132322	1745	18.61	19.80	1.315	-	-	-0.09	0.541	0.712
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	132322	1745	18.60	19.80	1.318	-	-	0.12	0.541	0.713
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	132322	1745	18.70	19.80	1.288	-	-	0.03	0.134	0.173
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	132322	1745	18.61	19.80	1.315	-	-	0.18	0.106	0.139
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	132322	1745	18.70	19.80	1.288	-	-	0.16	0.245	0.316
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	132322	1745	18.61	19.80	1.315	-	-	0.18	0.194	0.255
46	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	18.70	19.80	1.288	-	-	0.07	1.000	1.288
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132072	1720	18.57	19.80	1.327	-	-	0.19	0.967	1.284
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	132572	1770	18.53	19.80	1.340	-	-	0.07	0.917	1.228
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	18.61	19.80	1.315	-	-	-0.18	0.795	1.046
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	132072	1720	18.43	19.80	1.371	-	-	0.03	0.799	1.095
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	132572	1770	18.41	19.80	1.377	-	-	-0.15	0.762	1.049
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	132322	1745	18.60	19.80	1.318	-	-	-0.15	0.789	1.040
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	132322	1745	12.03	13.00	1.250	-	-	0.01	0.198	0.248
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	132322	1745	11.95	13.00	1.274	-	-	0.04	0.159	0.202
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	132322	1745	12.03	13.00	1.250	-	-	0.06	0.334	0.418
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	132322	1745	11.95	13.00	1.274	-	-	0.13	0.269	0.343
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	132322	1745	12.03	13.00	1.250	-	-	0.16	0.029	0.036
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	132322	1745	11.95	13.00	1.274	-	-	-0.1	0.023	0.029
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	132322	1745	12.03	13.00	1.250	-	-	0.07	0.010	0.013
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	132322	1745	11.95	13.00	1.274	-	-	0.18	0.008	0.010
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	132322	1745	12.03	13.00	1.250	-	-	-0.1	0.438	0.548
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	132072	1720	11.82	13.00	1.312	-	-	0.01	0.445	0.584
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	132572	1770	11.72	13.00	1.343	-	-	0.01	0.466	0.626
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	132322	1745	11.95	13.00	1.274	-	-	-0.15	0.355	0.452
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	132072	1720	11.77	13.00	1.327	-	-	0.19	0.358	0.475
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	132572	1770	11.74	13.00	1.337	-	-	0.07	0.354	0.473
	LTE Band 66	20M	QPSK	100	0	-	Top Side	5mm	Ant 4	ECI 7	132322	1745	11.89	13.00	1.291	-	-	-0.18	0.373	0.482
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	132572	1770	14.09	15.00	1.233	-	-	0.03	0.469	0.578
	LTE Band 4 Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	20175	1732.5	14.08	15.00	1.236	-	-	-0.15	0.361	0.446
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	340500	1702.5	20.21	21.60	1.377	-	-	0.15	0.495	0.682
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	340500	1702.5	20.10	21.60	1.413	-	-	-0.09	0.486	0.686
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	340500	1702.5	20.21	21.60	1.377	-	-	-0.05	0.603	0.830



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	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	340500	1702.5	20.10	21.60	1.413	-	-	-0.08	0.630	0.890
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	340500	1702.5	19.98	21.60	1.452	-	-	0.16	0.491	0.713
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	340500	1702.5	20.21	21.60	1.377	-	-	0.05	0.105	0.145
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	340500	1702.5	20.10	21.60	1.413	-	-	0.05	0.113	0.160
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	340500	1702.5	20.21	21.60	1.377	-	-	-0.03	0.186	0.256
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	340500	1702.5	20.10	21.60	1.413	-	-	-0.15	0.191	0.270
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	340500	1702.5	20.21	21.60	1.377	-	-	0.02	0.788	1.085
47	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	340500	1702.5	20.10	21.60	1.413	-	-	0.09	0.903	1.276
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	340500	1702.5	19.98	21.60	1.452	-	-	0.07	0.662	0.961
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	340500	1702.5	15.29	16.40	1.291	-	-	0.01	0.258	0.333
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	340500	1702.5	15.20	16.40	1.318	-	-	-0.01	0.251	0.331
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	340500	1702.5	15.29	16.40	1.291	-	-	-0.04	0.372	0.480
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	340500	1702.5	15.20	16.40	1.318	-	-	-0.09	0.419	0.552
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	340500	1702.5	15.06	16.40	1.361	-	-	-0.17	0.342	0.466
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	340500	1702.5	15.29	16.40	1.291	-	-	-0.1	0.044	0.057
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	340500	1702.5	15.20	16.40	1.318	-	-	0.18	0.035	0.046
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	340500	1702.5	15.29	16.40	1.291	-	-	-0.17	0.018	0.023
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	340500	1702.5	15.20	16.40	1.318	-	-	-0.04	0.016	0.021
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	340500	1702.5	15.29	16.40	1.291	-	-	0.04	0.487	0.629
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	340500	1702.5	15.20	16.40	1.318	-	-	-0.05	0.478	0.630
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	349000	1745	20.25	21.10	1.216	-	-	0	0.588	0.715
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	-0.04	0.625	0.764
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	349000	1745	20.25	21.10	1.216	-	-	0.11	0.745	0.906
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	-0.02	0.835	1.020
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	349000	1745	19.94	21.10	1.306	-	-	0.1	0.598	0.781
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	349000	1745	20.25	21.10	1.216	-	-	0.04	0.128	0.156
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	0.13	0.134	0.164
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	349000	1745	20.25	21.10	1.216	-	-	-0.18	0.235	0.286
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	-0.11	0.243	0.297
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	20.25	21.10	1.216	-	-	-0.16	1.010	1.228
48	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	0.08	1.050	1.283
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	19.94	21.10	1.306	-	-	-0.15	0.856	1.118
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	20.26	21.10	1.213	-	-	0.03	0.973	1.181
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	349000	1745	15.06	15.60	1.132	-	-	0.07	0.246	0.279
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	349000	1745	14.83	15.60	1.194	-	-	-0.02	0.233	0.278
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	349000	1745	15.06	15.60	1.132	-	-	-0.13	0.374	0.424
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	349000	1745	14.83	15.60	1.194	-	-	0.08	0.375	0.448
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	349000	1745	15.06	15.60	1.132	-	-	0.01	0.035	0.040
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	349000	1745	14.83	15.60	1.194	-	-	-0.16	0.038	0.045
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	349000	1745	15.06	15.60	1.132	-	-	0.1	0.010	0.011
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	349000	1745	14.83	15.60	1.194	-	-	-0.04	0.010	0.012
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	15.06	15.60	1.132	-	-	-0.01	0.493	0.558
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	14.83	15.60	1.194	-	-	0.01	0.519	0.620
	FR1 n66 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	14.76	15.60	1.213	-	-	-0.11	0.430	0.522
	FR1 n66 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	349000	1745	12.62	13.50	1.225	-	-	0.09	0.327	0.400
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	ECI 7	661	1880	22.78	24.00	1.324	-	-	0.08	0.653	0.865
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	ECI 7	512	1850.2	22.80	24.00	1.318	-	-	0.01	0.558	0.736
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	ECI 7	810	1909.8	22.79	24.00	1.321	-	-	0.03	0.667	0.881
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	ECI 7	661	1880	22.78	24.00	1.324	-	-	-0.08	0.799	1.058
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	ECI 7	512	1850.2	22.80	24.00	1.318	-	-	-0.08	0.667	0.879
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	ECI 7	810	1909.8	22.79	24.00	1.321	-	-	0.1	0.757	1.000
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 1	ECI 7	661	1880	22.78	24.00	1.324	-	-	-0.18	0.197	0.261
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 1	ECI 7	661	1880	22.78	24.00	1.324	-	-	0.1	0.243	0.322
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 1	ECI 7	661	1880	22.78	24.00	1.324	-	-	0.12	0.837	1.108
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 1	ECI 7	512	1850.2	22.80	24.00	1.318	-	-	0.08	0.766	1.010



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49	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 1	ECI 7	810	1909.8	22.79	24.00	1.321	-	-	0.06	0.946	1.250
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	9400	1880	18.68	19.70	1.265	-	-	0.17	0.636	0.804
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	9262	1852.4	18.62	19.70	1.282	-	-	-0.05	0.643	0.825
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 7	9538	1907.6	18.65	19.70	1.274	-	-	0.01	0.749	0.954
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	9400	1880	18.68	19.70	1.265	-	-	0.1	0.796	1.007
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	9262	1852.4	18.62	19.70	1.282	-	-	-0.17	0.729	0.935
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 7	9538	1907.6	18.65	19.70	1.274	-	-	0.02	0.842	1.072
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	ECI 7	9400	1880	18.68	19.70	1.265	-	-	0.04	0.181	0.229
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	ECI 7	9400	1880	18.68	19.70	1.265	-	-	-0.01	0.264	0.334
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	9400	1880	18.68	19.70	1.265	-	-	0.06	0.944	1.194
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	9262	1852.4	18.62	19.70	1.282	-	-	-0.09	0.870	1.116
50	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	ECI 7	9538	1907.6	18.65	19.70	1.274	-	-	0.06	1.010	1.286
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	26340	1880	18.71	19.90	1.315	-	-	0.18	0.636	0.836
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	26140	1860	18.64	19.90	1.337	-	-	-0.1	0.586	0.783
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	26590	1905	18.65	19.90	1.334	-	-	0.01	0.665	0.887
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	26340	1880	18.63	19.90	1.340	-	-	-0.15	0.499	0.668
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 1	ECI 7	26340	1880	18.65	19.90	1.334	-	-	-0.18	0.531	0.708
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	26340	1880	18.71	19.90	1.315	-	-	0.03	0.712	0.936
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	26140	1860	18.64	19.90	1.337	-	-	-0.15	0.687	0.918
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	26590	1905	18.65	19.90	1.334	-	-	-0.15	0.752	1.003
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	26340	1880	18.63	19.90	1.340	-	-	0.11	0.560	0.750
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	26340	1880	18.65	19.90	1.334	-	-	-0.08	0.596	0.795
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	26340	1880	18.71	19.90	1.315	-	-	-0.04	0.150	0.197
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	26340	1880	18.63	19.90	1.340	-	-	-0.08	0.120	0.161
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	26340	1880	18.71	19.90	1.315	-	-	0.17	0.275	0.362
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	26340	1880	18.63	19.90	1.340	-	-	-0.08	0.212	0.284
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	26340	1880	18.71	19.90	1.315	-	-	-0.03	0.925	1.217
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	26140	1860	18.64	19.90	1.337	-	-	-0.03	0.871	1.164
51	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	26590	1905	18.65	19.90	1.334	-	-	0.03	0.965	1.287
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	26340	1880	18.63	19.90	1.340	-	-	0.08	0.712	0.954
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	26140	1860	18.42	19.90	1.406	-	-	-0.07	0.726	1.021
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	26590	1905	18.57	19.90	1.358	-	-	0.05	0.690	0.937
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	26340	1880	18.65	19.90	1.334	-	-	-0.11	0.759	1.012
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	26340	1880	10.67	12.00	1.358	-	-	0.16	0.158	0.215
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	26340	1880	10.57	12.00	1.390	-	-	0	0.130	0.181
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	26340	1880	10.67	12.00	1.358	-	-	-0.04	0.264	0.359
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	26340	1880	10.57	12.00	1.390	-	-	-0.1	0.219	0.304
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	26340	1880	10.67	12.00	1.358	-	-	-0.05	0.026	0.035
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	26340	1880	10.57	12.00	1.390	-	-	0	0.021	0.029
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	26340	1880	10.67	12.00	1.358	-	-	-0.13	0.010	0.014
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	26340	1880	10.57	12.00	1.390	-	-	-0.01	0.008	0.011
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	26340	1880	10.67	12.00	1.358	-	-	0.02	0.458	0.622
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	26340	1880	10.57	12.00	1.390	-	-	0.02	0.372	0.517
	LTE Band 25 Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	26340	1880	12.35	13.50	1.303	-	-	0.01	0.305	0.397
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	18900	1880	12.31	13.50	1.315	-	-	-0.04	0.320	0.421
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	376500	1882.5	20.91	21.80	1.227	-	-	-0.05	0.652	0.800
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	376500	1882.5	20.89	21.80	1.233	-	-	-0.13	0.756	0.932
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	376500	1882.5	20.58	21.80	1.324	-	-	0.08	0.571	0.756
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	376500	1882.5	20.91	21.80	1.227	-	-	0.16	0.750	0.921
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	376500	1882.5	20.89	21.80	1.233	-	-	0.01	0.792	0.977
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	376500	1882.5	20.58	21.80	1.324	-	-	-0.16	0.658	0.871
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	376500	1882.5	20.91	21.80	1.227	-	-	0.1	0.179	0.220
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	376500	1882.5	20.89	21.80	1.233	-	-	-0.04	0.211	0.260
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	376500	1882.5	20.91	21.80	1.227	-	-	-0.01	0.235	0.288
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	376500	1882.5	20.89	21.80	1.233	-	-	0	0.261	0.322



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	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376500	1882.5	20.91	21.80	1.227	-	-	-0.11	0.920	1.129
52	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376500	1882.5	20.89	21.80	1.233	-	-	0.06	1.030	1.270
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376500	1882.5	20.58	21.80	1.324	-	-	-0.06	0.823	1.090
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	376000	1880	20.89	21.80	1.233	-	-	0.01	0.978	1.206
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	376500	1882.5	14.76	15.10	1.081	-	-	0.1	0.166	0.180
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 4	ECI 7	376500	1882.5	14.55	15.10	1.135	-	-	0.12	0.175	0.199
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	376500	1882.5	14.76	15.10	1.081	-	-	-0.17	0.261	0.282
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	ECI 7	376500	1882.5	14.55	15.10	1.135	-	-	0.01	0.280	0.318
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	376500	1882.5	14.76	15.10	1.081	-	-	0.11	0.026	0.028
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 4	ECI 7	376500	1882.5	14.55	15.10	1.135	-	-	-0.05	0.026	0.030
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	376500	1882.5	14.76	15.10	1.081	-	-	0.18	0.012	0.013
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 4	ECI 7	376500	1882.5	14.55	15.10	1.135	-	-	0.14	0.011	0.012
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	14.76	15.10	1.081	-	-	-0.17	0.498	0.539
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	14.55	15.10	1.135	-	-	0.04	0.550	0.624
	FR1 n25 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	14.51	15.10	1.146	-	-	-0.05	0.513	0.588
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376000	1880	14.63	15.10	1.114	-	-	0.01	0.515	0.574
	FR1 n2 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376000	1880	14.59	15.10	1.125	-	-	0.1	0.520	0.585
	FR1 n25 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 4	ECI 7	376500	1882.5	12.81	14.00	1.315	-	-	-0.03	0.481	0.633
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	0.08	0.612	0.765
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	ECI 7	27710	2310	20.65	21.70	1.274	-	-	0.01	0.488	0.621
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	-0.08	0.673	0.841
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	ECI 7	27710	2310	20.65	21.70	1.274	-	-	-0.08	0.541	0.689
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	27710	2310	20.62	21.70	1.282	-	-	0.1	0.543	0.696
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	-0.18	0.197	0.246
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	ECI 7	27710	2310	20.65	21.70	1.274	-	-	0.1	0.155	0.197
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	0.12	0.164	0.205
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	ECI 7	27710	2310	20.65	21.70	1.274	-	-	0.08	0.125	0.159
53	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	0.03	1.030	1.288
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	20.65	21.70	1.274	-	-	-0.17	0.806	1.026
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	20.62	21.70	1.282	-	-	-0.03	0.806	1.034
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	27710	2310	22.05	22.70	1.161	-	-	-0.09	0.151	0.175
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Front	5mm	Ant 4	ECI 7	27710	2310	21.88	22.70	1.208	-	-	-0.08	0.118	0.143
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	27710	2310	22.05	22.70	1.161	-	-	0.13	0.272	0.316
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Back	5mm	Ant 4	ECI 7	27710	2310	21.88	22.70	1.208	-	-	0.12	0.229	0.277
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	27710	2310	22.05	22.70	1.161	-	-	0.03	0.084	0.098
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Left Side	5mm	Ant 4	ECI 7	27710	2310	21.88	22.70	1.208	-	-	0.18	0.071	0.086
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	27710	2310	22.05	22.70	1.161	-	-	0.16	0.007	0.008
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Right Side	5mm	Ant 4	ECI 7	27710	2310	21.88	22.70	1.208	-	-	-0.1	0.005	0.006
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	27710	2310	22.05	22.70	1.161	-	-	0.01	0.538	0.625
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Top Side	5mm	Ant 4	ECI 7	27710	2310	21.88	22.70	1.208	-	-	0.07	0.440	0.531
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	462000	2310	20.01	21.10	1.285	-	-	-0.1	0.625	0.803
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	462000	2310	19.85	21.10	1.334	-	-	0.01	0.612	0.816
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	462000	2310	19.80	21.10	1.349	-	-	-0.15	0.455	0.614
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	462000	2310	20.01	21.10	1.285	-	-	0.19	0.743	0.955
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	462000	2310	19.85	21.10	1.334	-	-	0.07	0.717	0.956
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	462000	2310	19.80	21.10	1.349	-	-	-0.18	0.529	0.714
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	462000	2310	20.01	21.10	1.285	-	-	0.03	0.317	0.407
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	462000	2310	19.85	21.10	1.334	-	-	-0.15	0.307	0.409
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	462000	2310	20.01	21.10	1.285	-	-	-0.15	0.170	0.218
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	462000	2310	19.85	21.10	1.334	-	-	0.11	0.164	0.219
54	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	462000	2310	20.01	21.10	1.285	-	-	0.08	1.000	1.285
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	462000	2310	19.85	21.10	1.334	-	-	-0.08	0.934	1.246



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	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	462000	2310	19.80	21.10	1.349	-	-	-0.17	0.757	1.021
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	17.66	18.80	1.300	-	-	0.1	0.522	0.679
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	21100	2535	17.62	18.80	1.312	-	-	0.12	0.415	0.545
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	17.66	18.80	1.300	-	-	0.14	0.694	0.902
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	20850	2510	17.64	18.80	1.306	-	-	0.11	0.681	0.890
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	21350	2560	17.62	18.80	1.312	-	-	-0.05	0.658	0.863
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	17.62	18.80	1.312	-	-	0.18	0.545	0.715
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	21100	2535	17.57	18.80	1.327	-	-	0.17	0.522	0.693
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	21100	2535	17.66	18.80	1.300	-	-	-0.05	0.190	0.247
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	21100	2535	17.62	18.80	1.312	-	-	-0.17	0.153	0.201
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	21100	2535	17.66	18.80	1.300	-	-	-0.01	0.127	0.165
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	21100	2535	17.62	18.80	1.312	-	-	-0.08	0.101	0.133
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	17.66	18.80	1.300	-	-	0.05	0.954	1.240
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	20850	2510	17.64	18.80	1.306	-	-	0.06	0.892	1.165
55	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	21350	2560	17.62	18.80	1.312	-	-	0.04	0.986	1.294
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	17.62	18.80	1.312	-	-	-0.09	0.743	0.975
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	20850	2510	17.56	18.80	1.330	-	-	-0.08	0.746	0.993
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	21350	2560	17.55	18.80	1.334	-	-	0.13	0.704	0.939
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	21100	2535	17.57	18.80	1.327	-	-	0.12	0.769	1.021
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	21100	2535	18.91	19.80	1.227	-	-	-0.08	0.112	0.137
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	21100	2535	18.87	19.80	1.239	-	-	0.17	0.092	0.114
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	21100	2535	18.91	19.80	1.227	-	-	0.18	0.237	0.291
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	21100	2535	18.87	19.80	1.239	-	-	-0.13	0.180	0.223
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	21100	2535	18.91	19.80	1.227	-	-	-0.03	0.053	0.065
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	21100	2535	18.87	19.80	1.239	-	-	0.08	0.041	0.051
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	21100	2535	18.91	19.80	1.227	-	-	-0.07	0.010	0.012
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	21100	2535	18.87	19.80	1.239	-	-	0.05	0.009	0.011
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	21100	2535	18.91	19.80	1.227	-	-	-0.11	0.463	0.568
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	21100	2535	18.87	19.80	1.239	-	-	0.03	0.340	0.421
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	21.06	21.90	1.213	62.9	1.006	0.05	0.431	0.526
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	ECI 7	40620	2593	21.02	21.90	1.225	62.9	1.006	0.13	0.337	0.415
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	21.06	21.90	1.213	62.9	1.006	0.01	0.620	0.757
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	39750	2506	20.94	21.90	1.247	62.9	1.006	-0.06	0.615	0.772
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	40185	2549.5	21.00	21.90	1.230	62.9	1.006	-0.04	0.615	0.761
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41055	2636.5	20.98	21.90	1.236	62.9	1.006	-0.09	0.540	0.671
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 7	41490	2680	20.80	21.90	1.288	62.9	1.006	-0.17	0.446	0.578
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	21.02	21.90	1.225	62.9	1.006	-0.1	0.490	0.604
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	39750	2506	20.90	21.90	1.259	62.9	1.006	-0.17	0.490	0.621
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	40185	2549.5	20.91	21.90	1.256	62.9	1.006	-0.04	0.494	0.624
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	41055	2636.5	20.96	21.90	1.242	62.9	1.006	-0.05	0.433	0.541
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	ECI 7	41490	2680	20.73	21.90	1.309	62.9	1.006	0	0.353	0.465
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	ECI 7	40620	2593	20.97	21.90	1.239	62.9	1.006	-0.13	0.469	0.584
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	ECI 7	40620	2593	21.06	21.90	1.213	62.9	1.006	-0.01	0.173	0.211
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	ECI 7	40620	2593	21.02	21.90	1.225	62.9	1.006	-0.09	0.138	0.170
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	ECI 7	40620	2593	21.06	21.90	1.213	62.9	1.006	0.05	0.085	0.104
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	ECI 7	40620	2593	21.02	21.90	1.225	62.9	1.006	0.02	0.070	0.086
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	21.06	21.90	1.213	62.9	1.006	0.06	0.949	1.158
	LTE Band 41C	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620+ 40818	2593+ 2612.8	21.01	21.90	1.227	62.9	1.006	0.01	0.911	1.125
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	39750	2506	20.94	21.90	1.247	62.9	1.006	0.17	0.903	1.133
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40185	2549.5	21.00	21.90	1.230	62.9	1.006	0.06	0.857	1.061
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41055	2636.5	20.98	21.90	1.236	62.9	1.006	0	0.792	0.985
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	41490	2680	20.80	21.90	1.288	62.9	1.006	-0.04	0.787	1.020



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	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	21.02	21.90	1.225	62.9	1.006	-0.15	0.726	0.894
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	39750	2506	20.90	21.90	1.259	62.9	1.006	-0.02	0.716	0.907
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	40185	2549.5	20.91	21.90	1.256	62.9	1.006	0.1	0.681	0.860
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	41055	2636.5	20.96	21.90	1.242	62.9	1.006	0.04	0.620	0.774
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 1	ECI 7	41490	2680	20.73	21.90	1.309	62.9	1.006	0.13	0.656	0.864
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	20.97	21.90	1.239	62.9	1.006	-0.18	0.716	0.892
56	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620	2593	22.30	23.50	1.318	42.9	1.009	0.03	0.940	1.250
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	40620+40818	2593+2612.8	22.21	23.50	1.346	42.9	1.009	-0.08	0.869	1.180
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	ECI 7	40620	2593	22.17	23.00	1.211	62.9	1.006	-0.15	0.276	0.336
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	ECI 7	40620	2593	21.11	22.00	1.227	62.9	1.006	0.11	0.208	0.257
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	40620	2593	22.17	23.00	1.211	62.9	1.006	-0.02	0.568	0.692
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	39750	2506	22.08	23.00	1.236	62.9	1.006	0.04	0.676	0.841
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	40185	2549.5	21.87	23.00	1.297	62.9	1.006	0.13	0.678	0.885
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 0	ECI 7	40185+40838	2549.5+2569.3	21.77	23.00	1.327	62.9	1.006	0.04	0.655	0.875
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	41055	2636.5	21.92	23.00	1.282	62.9	1.006	-0.18	0.604	0.779
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	41490	2680	21.98	23.00	1.265	62.9	1.006	-0.11	0.659	0.838
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	40620	2593	21.11	22.00	1.227	62.9	1.006	-0.16	0.443	0.547
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	39750	2506	20.99	22.00	1.262	62.9	1.006	-0.06	0.541	0.687
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	40185	2549.5	20.89	22.00	1.291	62.9	1.006	-0.14	0.474	0.616
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	41055	2636.5	21.04	22.00	1.247	62.9	1.006	-0.19	0.469	0.589
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	ECI 7	41490	2680	21.00	22.00	1.259	62.9	1.006	0.01	0.529	0.670
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	ECI 7	40620	2593	20.89	22.00	1.291	62.9	1.006	0.06	0.437	0.568
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	ECI 7	40620	2593	22.17	23.00	1.211	62.9	1.006	0.08	0.231	0.281
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	ECI 7	40620	2593	21.11	22.00	1.227	62.9	1.006	0.01	0.150	0.185
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	ECI 7	40620	2593	22.17	23.00	1.211	62.9	1.006	0.03	0.065	0.079
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	ECI 7	40620	2593	21.11	22.00	1.227	62.9	1.006	-0.08	0.058	0.072
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	40620	2593	22.17	23.00	1.211	62.9	1.006	-0.08	0.497	0.605
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	39750	2506	22.08	23.00	1.236	62.9	1.006	-0.18	0.606	0.753
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	40185	2549.5	21.87	23.00	1.297	62.9	1.006	0.1	0.602	0.786
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	41055	2636.5	21.92	23.00	1.282	62.9	1.006	0.12	0.343	0.442
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	41490	2680	21.98	23.00	1.265	62.9	1.006	0.08	0.491	0.625
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	40620	2593	21.11	22.00	1.227	62.9	1.006	-0.17	0.432	0.533
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	39750	2506	20.99	22.00	1.262	62.9	1.006	0.14	0.466	0.592
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	40185	2549.5	20.89	22.00	1.291	62.9	1.006	0.11	0.451	0.586
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	41055	2636.5	21.04	22.00	1.247	62.9	1.006	-0.05	0.238	0.299
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	ECI 7	41490	2680	21.00	22.00	1.259	62.9	1.006	0.18	0.361	0.457
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	ECI 7	40620	2593	20.89	22.00	1.291	62.9	1.006	0.14	0.347	0.451
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	40185	2549.5	24.69	26.00	1.352	42.9	1.009	-0.05	0.875	1.194
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 0	ECI 7	40185+40838	2549.5+2569.3	24.66	26.00	1.361	42.9	1.009	0.01	0.811	1.114
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 4	ECI 7	40620	2593	12.37	13.20	1.211	62.9	1.006	-0.17	0.096	0.117
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 4	ECI 7	40620	2593	12.31	13.20	1.227	62.9	1.006	0.17	0.072	0.089
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	ECI 7	40620	2593	12.37	13.20	1.211	62.9	1.006	-0.05	0.145	0.177
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	ECI 7	40620	2593	12.31	13.20	1.227	62.9	1.006	0.06	0.116	0.143
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	ECI 7	40620	2593	12.37	13.20	1.211	62.9	1.006	0.16	0.043	0.052
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	ECI 7	40620	2593	12.31	13.20	1.227	62.9	1.006	-0.1	0.035	0.043
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	ECI 7	40620	2593	12.37	13.20	1.211	62.9	1.006	0.07	0.016	0.019
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	ECI 7	40620	2593	12.31	13.20	1.227	62.9	1.006	0.18	0.013	0.016
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	12.37	13.20	1.211	62.9	1.006	0.09	0.501	0.610
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	5mm	Ant 4	ECI 7	40620+40818	2593+2612.8	12.27	13.20	1.239	62.9	1.006	0.07	0.471	0.587
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	39750	2506	12.29	13.20	1.233	62.9	1.006	0.01	0.491	0.609
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	40185	2549.5	12.22	13.20	1.253	62.9	1.006	-0.15	0.482	0.608
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	41055	2636.5	12.32	13.20	1.225	62.9	1.006	0.19	0.294	0.362
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	41490	2680	12.29	13.20	1.233	62.9	1.006	0.07	0.272	0.337
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	12.31	13.20	1.227	62.9	1.006	-0.18	0.307	0.379



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	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	39750	2506	12.19	13.20	1.262	62.9	1.006	-0.15	0.393	0.499
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	40185	2549.5	12.16	13.20	1.271	62.9	1.006	-0.15	0.382	0.488
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	41055	2636.5	12.24	13.20	1.247	62.9	1.006	0.11	0.236	0.296
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	ECI 7	41490	2680	12.25	13.20	1.245	62.9	1.006	-0.08	0.218	0.273
	LTE Band 41	20M	QPSK	100	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	12.30	13.20	1.230	62.9	1.006	-0.17	0.310	0.384
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	ECI 7	40620	2593	13.94	14.80	1.219	42.9	1.009	0.03	0.512	0.630
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Top Side	5mm	Ant 4	ECI 7	40620+40818	2593+2612.8	13.86	14.80	1.242	42.9	1.009	0.09	0.432	0.541
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 10	ECI 7	40620	2593	17.78	18.50	1.180	62.9	1.006	-0.04	0.009	0.011
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 10	ECI 7	40620	2593	17.73	18.50	1.194	62.9	1.006	-0.08	0.012	0.014
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	ECI 7	40620	2593	17.78	18.50	1.180	62.9	1.006	0.17	0.500	0.594
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 10	ECI 7	40620+40818	2593+2612.8	17.69	18.50	1.205	62.9	1.006	0.04	0.417	0.506
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	ECI 7	39750	2506	17.65	18.50	1.216	62.9	1.006	-0.04	0.277	0.339
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	ECI 7	40185	2549.5	17.73	18.50	1.194	62.9	1.006	-0.08	0.312	0.375
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	ECI 7	41055	2636.5	17.59	18.50	1.233	62.9	1.006	-0.13	0.435	0.540
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	ECI 7	41490	2680	17.59	18.50	1.233	62.9	1.006	0.02	0.475	0.589
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	ECI 7	40620	2593	17.73	18.50	1.194	62.9	1.006	-0.13	0.311	0.374
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	ECI 7	39750	2506	17.58	18.50	1.236	62.9	1.006	-0.03	0.221	0.275
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	ECI 7	40185	2549.5	17.67	18.50	1.211	62.9	1.006	-0.03	0.251	0.306
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	ECI 7	41055	2636.5	17.50	18.50	1.259	62.9	1.006	0.08	0.352	0.446
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	ECI 7	41490	2680	17.56	18.50	1.242	62.9	1.006	-0.07	0.409	0.511
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 10	ECI 7	40620	2593	17.70	18.50	1.202	62.9	1.006	0.05	0.329	0.398
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 10	ECI 7	40620	2593	17.78	18.50	1.180	62.9	1.006	-0.11	0.060	0.071
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 10	ECI 7	40620	2593	17.73	18.50	1.194	62.9	1.006	-0.12	0.048	0.058
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 10	ECI 7	40620	2593	17.78	18.50	1.180	62.9	1.006	0.03	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 10	ECI 7	40620	2593	17.73	18.50	1.194	62.9	1.006	-0.16	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 10	ECI 7	40620	2593	17.78	18.50	1.180	62.9	1.006	-0.02	0.017	0.020
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 10	ECI 7	40620	2593	17.73	18.50	1.194	62.9	1.006	0.15	0.018	0.022
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 10	ECI 7	40620	2593	19.38	20.10	1.180	42.9	1.009	0.06	0.493	0.587
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 10	ECI 7	40620+40818	2593+2612.8	19.29	20.10	1.205	42.9	1.009	-0.13	0.455	0.553
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	507000	2535	18.98	20.20	1.324	-	-	-0.09	0.450	0.596
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 7	507000	2535	18.88	20.20	1.355	-	-	0.11	0.485	0.657
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	507000	2535	18.98	20.20	1.324	-	-	-0.08	0.576	0.763
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 1	ECI 7	507000	2535	18.88	20.20	1.355	-	-	0.16	0.546	0.740
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	507000	2535	18.98	20.20	1.324	-	-	0.05	0.185	0.245
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	5mm	Ant 1	ECI 7	507000	2535	18.88	20.20	1.355	-	-	-0.03	0.210	0.285
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	507000	2535	18.98	20.20	1.324	-	-	-0.15	0.135	0.179
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	5mm	Ant 1	ECI 7	507000	2535	18.88	20.20	1.355	-	-	0.02	0.121	0.164
57	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	18.98	20.20	1.324	-	-	0.09	0.973	1.289
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	18.88	20.20	1.355	-	-	0.07	0.922	1.249
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	507000	2535	18.69	20.20	1.416	-	-	0.16	0.706	1.000
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 0	ECI 7	518598	2592.99	22.79	24.10	1.352	-	-	0.16	0.582	0.787
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 0	ECI 7	518598	2592.99	22.75	24.10	1.365	-	-	0.05	0.616	0.841
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 0	ECI 7	518598	2592.99	22.45	24.10	1.462	-	-	-0.06	0.435	0.636
58	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 0	ECI 7	518598	2592.99	22.79	24.10	1.352	-	-	-0.06	0.957	1.294
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	ECI 7	518598	2592.99	22.75	24.10	1.365	-	-	-0.06	0.937	1.279
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 0	ECI 7	518598	2592.99	22.45	24.10	1.462	-	-	-0.01	0.733	1.072
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 0	ECI 7	518598	2592.99	22.79	24.10	1.352	-	-	-0.01	0.293	0.396
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 0	ECI 7	518598	2592.99	22.75	24.10	1.365	-	-	-0.06	0.229	0.312
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 0	ECI 7	518598	2592.99	22.79	24.10	1.352	-	-	-0.09	0.128	0.173
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 0	ECI 7	518598	2592.99	22.75	24.10	1.365	-	-	-0.17	0.122	0.166
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 0	ECI 7	518598	2592.99	22.79	24.10	1.352	-	-	-0.1	0.372	0.503
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 0	ECI 7	518598	2592.99	22.75	24.10	1.365	-	-	0.18	0.608	0.830
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 0	ECI 7	518598	2592.99	22.45	24.10	1.462	-	-	-0.17	0.392	0.573
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	ECI 7	518598	2592.99	19.61	20.80	1.315	-	-	-0.09	0.587	0.772



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	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	ECI 7	518598	2592.99	19.48	20.80	1.355	-	-	0.05	0.492	0.667
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 7	518598	2592.99	19.61	20.80	1.315	-	-	-0.13	0.701	0.922
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 7	518598	2592.99	19.48	20.80	1.355	-	-	0.17	0.656	0.889
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	ECI 7	518598	2592.99	19.41	20.80	1.377	-	-	0.06	0.585	0.806
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	ECI 7	518598	2592.99	19.61	20.80	1.315	-	-	0	0.256	0.337
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	ECI 7	518598	2592.99	19.48	20.80	1.355	-	-	-0.04	0.194	0.263
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	ECI 7	518598	2592.99	19.61	20.80	1.315	-	-	0.11	0.133	0.175
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	ECI 7	518598	2592.99	19.48	20.80	1.355	-	-	-0.02	0.116	0.157
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	19.61	20.80	1.315	-	-	0.05	0.975	1.282
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	19.48	20.80	1.355	-	-	0.1	0.931	1.262
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 1	ECI 7	518598	2592.99	19.41	20.80	1.377	-	-	0.04	0.760	1.047
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	ECI 7	518598	2592.99	12.78	13.80	1.265	-	-	0.08	0.102	0.129
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	ECI 7	518598	2592.99	12.66	13.80	1.300	-	-	0.01	0.084	0.109
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	ECI 7	518598	2592.99	12.78	13.80	1.265	-	-	-0.08	0.213	0.269
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	ECI 7	518598	2592.99	12.66	13.80	1.300	-	-	-0.08	0.163	0.212
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 4	ECI 7	518598	2592.99	12.78	13.80	1.265	-	-	-0.18	0.056	0.071
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 4	ECI 7	518598	2592.99	12.66	13.80	1.300	-	-	0.1	0.040	0.052
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 4	ECI 7	518598	2592.99	12.78	13.80	1.265	-	-	0.12	0.015	0.019
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 4	ECI 7	518598	2592.99	12.66	13.80	1.300	-	-	0.08	0.014	0.018
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	12.78	13.80	1.265	-	-	0.02	0.488	0.617
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 4	ECI 7	518598	2592.99	12.66	13.80	1.300	-	-	-0.17	0.424	0.551
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 10	ECI 7	518598	2592.99	17.56	18.60	1.271	-	-	0.08	0.012	0.015
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 10	ECI 7	518598	2592.99	17.49	18.60	1.291	-	-	0.01	0.016	0.021
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 10	ECI 7	518598	2592.99	17.56	18.60	1.271	-	-	0.03	0.445	0.565
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 10	ECI 7	518598	2592.99	17.49	18.60	1.291	-	-	-0.03	0.492	0.635
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 10	ECI 7	518598	2592.99	17.56	18.60	1.271	-	-	-0.08	0.072	0.091
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 10	ECI 7	518598	2592.99	17.49	18.60	1.291	-	-	0.1	0.083	0.107
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 10	ECI 7	518598	2592.99	17.56	18.60	1.271	-	-	-0.18	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 10	ECI 7	518598	2592.99	17.49	18.60	1.291	-	-	0.1	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 10	ECI 7	518598	2592.99	17.56	18.60	1.271	-	-	0.12	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 10	ECI 7	518598	2592.99	17.49	18.60	1.291	-	-	0.08	0.013	0.017
3500MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 3	ECI 7	55830	3609	13.19	14.10	1.233	62.9	1.006	0.14	0.066	0.082
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 3	ECI 7	55830	3609	13.16	14.10	1.242	62.9	1.006	0.14	0.052	0.065
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	ECI 7	55830	3609	13.19	14.10	1.233	62.9	1.006	0.1	0.485	0.602
59	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	ECI 7	55340+	3560+	13.08	14.10	1.265	62.9	1.006	-0.17	0.488	0.621
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 3	ECI 7	55340+	3560+	9.11	10.10	1.256	62.9	1.006	0.01	0.223	0.282
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	ECI 7	56150	3641	13.18	14.10	1.236	62.9	1.006	0.04	0.424	0.527
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	ECI 7	56640	3690	12.77	14.10	1.358	62.9	1.006	-0.01	0.371	0.507
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	ECI 7	55830	3609	13.16	14.10	1.242	62.9	1.006	-0.08	0.361	0.451
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 3	ECI 7	55830	3609	12.99	14.10	1.291	62.9	1.006	-0.08	0.358	0.465
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	ECI 7	55830	3609	13.19	14.10	1.233	62.9	1.006	0.13	0.261	0.324
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	ECI 7	55830	3609	13.16	14.10	1.242	62.9	1.006	0.16	0.208	0.260
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 3	ECI 7	55830	3609	13.19	14.10	1.233	62.9	1.006	0.01	0.006	0.007
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 3	ECI 7	55830	3609	13.16	14.10	1.242	62.9	1.006	-0.15	0.005	0.006
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 3	ECI 7	55830	3609	13.19	14.10	1.233	62.9	1.006	0.19	0.045	0.056
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 3	ECI 7	55830	3609	13.16	14.10	1.242	62.9	1.006	0.07	0.035	0.044
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	641666	3624.99	12.51	14.30	1.510	-	-	-0.03	0.049	0.074
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	641666	3624.99	12.48	14.30	1.521	-	-	-0.03	0.056	0.085
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	641666	3624.99	12.51	14.30	1.510	-	-	-0.07	0.394	0.595
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	641666	3624.99	12.48	14.30	1.521	-	-	-0.03	0.413	0.628
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	641666	3624.99	12.51	14.30	1.510	-	-	-0.11	0.239	0.361
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	641666	3624.99	12.48	14.30	1.521	-	-	-0.12	0.184	0.280
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	641666	3624.99	12.51	14.30	1.510	-	-	-0.16	0.002	0.003
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	641666	3624.99	12.48	14.30	1.521	-	-	-0.02	0.003	0.005
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	641666	3624.99	12.51	14.30	1.510	-	-	0.15	0.036	0.054



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	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	641666	3624.99	12.48	14.30	1.521	-	-	-0.09	0.045	0.068
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	641666	3624.99	14.45	15.40	1.245	-	-	0.13	0.097	0.121
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	641666	3624.99	14.37	15.40	1.268	-	-	-0.18	0.113	0.143
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	641666	3624.99	14.45	15.40	1.245	-	-	0.02	0.495	0.616
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	641666	3624.99	14.37	15.40	1.268	-	-	-0.04	0.500	0.634
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	641666	3624.99	14.45	15.40	1.245	-	-	-0.03	0.097	0.121
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	641666	3624.99	14.37	15.40	1.268	-	-	0.07	0.105	0.133
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	641666	3624.99	14.45	15.40	1.245	-	-	0	0.043	0.054
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	641666	3624.99	14.37	15.40	1.268	-	-	0.01	0.058	0.074
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	641666	3624.99	14.45	15.40	1.245	-	-	-0.01	0.160	0.199
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	641666	3624.99	14.37	15.40	1.268	-	-	-0.06	0.202	0.256
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	641666	3624.99	14.64	15.70	1.276	-	-	-0.09	0.173	0.221
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	641666	3624.99	14.52	15.70	1.312	-	-	-0.17	0.166	0.218
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	641666	3624.99	14.64	15.70	1.276	-	-	-0.09	0.487	0.622
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	641666	3624.99	14.52	15.70	1.312	-	-	-0.1	0.470	0.617
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	641666	3624.99	14.64	15.70	1.276	-	-	-0.17	0.016	0.020
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	641666	3624.99	14.52	15.70	1.312	-	-	-0.04	0.014	0.018
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	641666	3624.99	14.64	15.70	1.276	-	-	-0.05	0.463	0.591
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	641666	3624.99	14.52	15.70	1.312	-	-	0	0.422	0.554
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	641666	3624.99	14.64	15.70	1.276	-	-	-0.01	0.088	0.112
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	641666	3624.99	14.52	15.70	1.312	-	-	-0.09	0.106	0.139
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	641666	3624.99	17.86	18.90	1.271	-	-	0.17	0.221	0.281
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	0.06	0.335	0.428
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	641666	3624.99	17.86	18.90	1.271	-	-	-0.04	0.388	0.493
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	-0.15	0.508	0.648
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	641666	3624.99	17.86	18.90	1.271	-	-	-0.02	0.026	0.033
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	0.1	0.020	0.026
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	641666	3624.99	17.86	18.90	1.271	-	-	0.04	0.734	0.933
60	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	0.15	1.000	1.276
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	641666	3624.99	17.59	18.90	1.352	-	-	0.13	0.574	0.776
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	641666	3624.99	17.86	18.90	1.271	-	-	-0.18	0.217	0.276
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	-0.11	0.248	0.317
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	656000	3840	11.28	12.70	1.387	-	-	0.08	0.080	0.111
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	656000	3840	11.20	12.70	1.413	-	-	0.01	0.075	0.106
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	656000	3840	11.28	12.70	1.387	-	-	-0.05	0.346	0.480
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	656000	3840	11.20	12.70	1.413	-	-	-0.08	0.327	0.462
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	656000	3840	11.28	12.70	1.387	-	-	0.1	0.143	0.198
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	656000	3840	11.20	12.70	1.413	-	-	-0.18	0.103	0.145
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	656000	3840	11.28	12.70	1.387	-	-	0.12	0.005	0.007
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	656000	3840	11.20	12.70	1.413	-	-	0.08	0.006	0.008
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	656000	3840	11.28	12.70	1.387	-	-	-0.17	0.068	0.094
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	656000	3840	11.20	12.70	1.413	-	-	-0.03	0.064	0.090
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	633334	3500.01	11.24	12.70	1.400	-	-	-0.01	0.066	0.092
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	ECI 7	633334	3500.01	11.14	12.70	1.432	-	-	-0.08	0.064	0.092
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	633334	3500.01	11.24	12.70	1.400	-	-	0.06	0.431	0.603
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	ECI 7	633334	3500.01	11.14	12.70	1.432	-	-	-0.03	0.448	0.642
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	633334	3500.01	11.24	12.70	1.400	-	-	-0.08	0.335	0.469
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	ECI 7	633334	3500.01	11.14	12.70	1.432	-	-	0.13	0.303	0.434
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	633334	3500.01	11.24	12.70	1.400	-	-	0.03	0.004	0.006
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	ECI 7	633334	3500.01	11.14	12.70	1.432	-	-	0.18	0.003	0.004
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	633334	3500.01	11.24	12.70	1.400	-	-	0.08	0.034	0.048
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	ECI 7	633334	3500.01	11.14	12.70	1.432	-	-	0.01	0.038	0.054
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	656000	3840	13.76	15.20	1.393	-	-	-0.08	0.095	0.132
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	656000	3840	13.60	15.20	1.445	-	-	-0.08	0.077	0.111
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	656000	3840	13.76	15.20	1.393	-	-	0.01	0.450	0.627
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	656000	3840	13.60	15.20	1.445	-	-	0.17	0.368	0.532



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	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	656000	3840	13.76	15.20	1.393	-	-	-0.04	0.057	0.079
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	656000	3840	13.60	15.20	1.445	-	-	-0.08	0.057	0.082
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	656000	3840	13.76	15.20	1.393	-	-	-0.13	0.059	0.082
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	656000	3840	13.60	15.20	1.445	-	-	-0.13	0.054	0.078
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	656000	3840	13.76	15.20	1.393	-	-	0.06	0.140	0.195
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	656000	3840	13.60	15.20	1.445	-	-	-0.03	0.142	0.205
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	633334	3500.01	14.66	15.20	1.132	-	-	0.08	0.047	0.053
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	ECI 7	633334	3500.01	14.54	15.20	1.164	-	-	-0.07	0.069	0.080
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	633334	3500.01	14.66	15.20	1.132	-	-	-0.09	0.423	0.479
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	ECI 7	633334	3500.01	14.54	15.20	1.164	-	-	0.05	0.412	0.480
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	633334	3500.01	14.66	15.20	1.132	-	-	-0.12	0.086	0.097
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 5	ECI 7	633334	3500.01	14.54	15.20	1.164	-	-	0.03	0.081	0.094
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	633334	3500.01	14.66	15.20	1.132	-	-	-0.16	0.027	0.031
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 5	ECI 7	633334	3500.01	14.54	15.20	1.164	-	-	-0.02	0.036	0.042
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	633334	3500.01	14.66	15.20	1.132	-	-	0.15	0.097	0.110
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 5	ECI 7	633334	3500.01	14.54	15.20	1.164	-	-	-0.09	0.168	0.196
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	656000	3840	14.08	14.80	1.180	-	-	-0.05	0.107	0.126
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	656000	3840	13.91	14.80	1.227	-	-	-0.08	0.095	0.117
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	656000	3840	14.08	14.80	1.180	-	-	0.16	0.200	0.236
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	656000	3840	13.91	14.80	1.227	-	-	0.05	0.160	0.196
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	656000	3840	14.08	14.80	1.180	-	-	0.05	0.017	0.020
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	656000	3840	13.91	14.80	1.227	-	-	-0.03	0.015	0.018
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	656000	3840	14.08	14.80	1.180	-	-	-0.09	0.212	0.250
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	656000	3840	13.91	14.80	1.227	-	-	-0.15	0.210	0.258
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	656000	3840	14.08	14.80	1.180	-	-	0.07	0.055	0.065
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	656000	3840	13.91	14.80	1.227	-	-	0.16	0.062	0.076
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	633334	3500.01	14.11	14.80	1.172	-	-	0.13	0.077	0.090
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	ECI 7	633334	3500.01	14.02	14.80	1.197	-	-	-0.18	0.110	0.132
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	633334	3500.01	14.11	14.80	1.172	-	-	0.02	0.244	0.286
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	ECI 7	633334	3500.01	14.02	14.80	1.197	-	-	0.03	0.344	0.412
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	633334	3500.01	14.11	14.80	1.172	-	-	-0.03	0.010	0.012
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	ECI 7	633334	3500.01	14.02	14.80	1.197	-	-	0.07	0.012	0.014
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	633334	3500.01	14.11	14.80	1.172	-	-	0	0.207	0.243
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	ECI 7	633334	3500.01	14.02	14.80	1.197	-	-	0.01	0.196	0.235
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	633334	3500.01	14.11	14.80	1.172	-	-	-0.06	0.039	0.046
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	ECI 7	633334	3500.01	14.02	14.80	1.197	-	-	-0.04	0.070	0.084
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	656000	3840	16.24	17.70	1.400	-	-	-0.01	0.242	0.339
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	656000	3840	16.21	17.70	1.409	-	-	-0.09	0.267	0.376
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	656000	3840	16.24	17.70	1.400	-	-	0.02	0.497	0.696
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	656000	3840	16.21	17.70	1.409	-	-	-0.13	0.486	0.685
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	656000	3840	16.24	17.70	1.400	-	-	0.06	0.005	0.007
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	656000	3840	16.21	17.70	1.409	-	-	0	0.005	0.007
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	16.24	17.70	1.400	-	-	-0.04	0.562	0.787
61	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	16.21	17.70	1.409	-	-	0.08	0.915	1.289
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	656000	3840	15.96	17.70	1.493	-	-	-0.15	0.466	0.696
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	656000	3840	16.24	17.70	1.400	-	-	0.11	0.172	0.241
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	656000	3840	16.21	17.70	1.409	-	-	-0.02	0.122	0.172
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	633334	3500.01	16.12	17.70	1.439	-	-	0.02	0.090	0.129
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	ECI 7	633334	3500.01	15.95	17.70	1.496	-	-	0.12	0.120	0.180
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	633334	3500.01	16.12	17.70	1.439	-	-	-0.12	0.160	0.230
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 7	633334	3500.01	15.95	17.70	1.496	-	-	0.07	0.174	0.260
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	633334	3500.01	16.12	17.70	1.439	-	-	-0.05	0.247	0.355
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	ECI 7	633334	3500.01	15.95	17.70	1.496	-	-	-0.13	0.013	0.019
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	633334	3500.01	16.12	17.70	1.439	-	-	0.08	0.010	0.014
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	633334	3500.01	15.95	17.70	1.496	-	-	-0.17	0.262	0.392
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	633334	3500.01	16.12	17.70	1.439	-	-	0.01	0.083	0.119



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	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	ECI 7	633334	3500.01	15.95	17.70	1.496	-	-	-0.16	0.081	0.121
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Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	Hotspot on	11	2462	17.11	18.50	1.377	98.26	1.018	0.11	0.212	0.297
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Hotspot on	11	2462	17.11	18.50	1.377	98.26	1.018	0.14	0.310	0.435
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 6	Hotspot on	11	2462	17.11	18.50	1.377	98.26	1.018	-0.05	0.133	0.186
62	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 6	Hotspot on	11	2462	17.11	18.50	1.377	98.26	1.018	0.05	0.463	0.649
	Bluetooth	1Mbps	Front	5mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.05	0.067	0.091
63	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.06	0.129	0.175
	Bluetooth	1Mbps	Right Side	5mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.08	0.058	0.079
	Bluetooth	1Mbps	Top Side	5mm	Ant 6	Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.01	0.075	0.102
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	39	2441	13.37	15.00	1.456	76.79	1.085	0.03	0.102	0.161
	Bluetooth	1Mbps	Back	5mm	Ant 6	Full Power	78	2480	13.40	15.00	1.446	76.79	1.085	0.01	0.111	0.174
5000MHz																
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7	Hotspot on	42	5210	11.76	13.00	1.330	100	1.000	0.12	0.121	0.161
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7	Hotspot on	42	5210	11.76	13.00	1.330	100	1.000	0.08	0.239	0.318
64	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 7	Hotspot on	42	5210	11.76	13.00	1.330	100	1.000	-0.02	0.411	0.547
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 7	Hotspot on	42	5210	11.76	13.00	1.330	100	1.000	-0.17	0.078	0.104
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7	Hotspot on	155	5775	11.66	12.00	1.081	100	1.000	0.11	0.156	0.169
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7	Hotspot on	155	5775	11.66	12.00	1.081	100	1.000	0.14	0.294	0.318
65	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 7	Hotspot on	155	5775	11.66	12.00	1.081	100	1.000	0.03	0.470	0.508
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 7	Hotspot on	155	5775	11.66	12.00	1.081	100	1.000	-0.05	0.109	0.118



16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	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)
750MHz																					
66	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	133322	683	23.09	24.00	1.233	-	-	0.08	0.630	0.777
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI 3	133322	683	22.12	23.00	1.225	-	-	0.01	0.425	0.520
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	133322	683	23.09	24.00	1.233	-	-	0.04	0.852	1.051
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	133322	683	22.12	23.00	1.225	-	-	-0.08	0.609	0.746
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	ECI 3	133322	683	22.07	23.00	1.239	-	-	-0.08	0.606	0.751
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	133322	683	23.19	24.00	1.205	-	-	0.1	0.257	0.310
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	133322	683	22.09	23.00	1.233	-	-	-0.18	0.211	0.260
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	133322	683	23.19	24.00	1.205	-	-	-0.02	0.553	0.666
67	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	133322	683	22.09	23.00	1.233	-	-	0.1	0.464	0.572
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	23095	707.5	22.99	24.00	1.262	-	-	0.12	0.740	0.934
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI 3	23095	707.5	21.92	23.00	1.282	-	-	0.08	0.589	0.755
	LTE Band 12	10M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI 3	23095	707.5	21.88	23.00	1.294	-	-	0.04	0.601	0.778
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23095	707.5	22.99	24.00	1.262	-	-	0.19	1.020	1.287
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI 3	23095	707.5	21.92	23.00	1.282	-	-	-0.03	0.793	1.017
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	23095	707.5	21.88	23.00	1.294	-	-	0.14	0.790	1.022
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI 3	23095	707.5	22.99	24.00	1.262	-	-	0.04	0.911	1.150
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	23095	707.5	21.05	22.60	1.429	-	-	0.11	0.253	0.362
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	ECI 3	23095	707.5	21.02	22.60	1.439	-	-	-0.05	0.203	0.292
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	23095	707.5	21.05	22.60	1.429	-	-	0.02	0.616	0.880
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	ECI 3	23095	707.5	21.02	22.60	1.439	-	-	0.18	0.494	0.711
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	23095	707.5	20.97	22.60	1.455	-	-	0.14	0.496	0.722
	LTE Band 12	10M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	23095	707.5	23.21	24.00	1.199	-	-	0.12	0.202	0.242
	LTE Band 12	10M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	23095	707.5	23.21	24.00	1.199	-	-	0.03	0.173	0.208
68	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	23230	782	22.92	24.00	1.282	-	-	-0.17	0.747	0.958
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI 3	23230	782	22.01	23.00	1.256	-	-	0.17	0.593	0.745
	LTE Band 13	10M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI 3	23230	782	21.98	23.00	1.265	-	-	-0.05	0.593	0.750
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	22.92	24.00	1.282	-	-	0.13	1.000	1.282
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	22.01	23.00	1.256	-	-	0.01	0.795	0.999
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	23230	782	21.98	23.00	1.265	-	-	0.1	0.795	1.005
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI 3	23230	782	22.92	24.00	1.282	-	-	0.04	0.931	1.194
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	23230	782	21.12	22.60	1.406	-	-	-0.17	0.311	0.437
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	ECI 3	23230	782	21.10	22.60	1.413	-	-	0.04	0.249	0.352
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	23230	782	21.12	22.60	1.406	-	-	0.01	0.622	0.875
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	ECI 3	23230	782	21.10	22.60	1.413	-	-	-0.01	0.497	0.702
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	23230	782	21.06	22.60	1.426	-	-	-0.08	0.499	0.711
	LTE Band 13	10M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	23230	782	23.11	24.00	1.227	-	-	0.18	0.215	0.264
	LTE Band 13	10M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	23230	782	23.11	24.00	1.227	-	-	0.16	0.149	0.183
69	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	23330	793	23.03	24.00	1.250	-	-	0.05	0.574	0.718
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	ECI 3	23330	793	21.98	23.00	1.265	-	-	0.06	0.455	0.575
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	23330	793	23.03	24.00	1.250	-	-	0.02	0.783	0.979
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	ECI 3	23330	793	21.98	23.00	1.265	-	-	-0.08	0.617	0.780
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	23330	793	21.94	23.00	1.276	-	-	0.13	0.617	0.788
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	23330	793	21.69	22.60	1.233	-	-	0.12	0.341	0.420
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	ECI 3	23330	793	21.61	22.60	1.256	-	-	0.03	0.271	0.340
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	23330	793	21.69	22.60	1.233	-	-	-0.08	0.715	0.882
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	ECI 3	23330	793	21.61	22.60	1.256	-	-	0.18	0.574	0.721
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	23330	793	21.67	22.60	1.239	-	-	0.16	0.574	0.711
	LTE Band 14	10M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	23330	793	23.26	24.00	1.186	-	-	-0.1	0.147	0.174
	LTE Band 14	10M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	23330	793	23.26	24.00	1.186	-	-	0.07	0.144	0.171
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	136100	680.5	23.16	24.00	1.213	-	-	-0.1	0.540	0.655



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	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	136100	680.5	23.13	24.00	1.222	-	-	0.07	0.504	0.616
70	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	136100	680.5	23.16	24.00	1.213	-	-	0.11	0.705	0.855
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	136100	680.5	23.13	24.00	1.222	-	-	0.18	0.640	0.782
	FR1 n71	35M	QPSK	188	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	136100	680.5	22.24	23.00	1.191	-	-	-0.1	0.537	0.640
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	136100	680.5	23.33	24.00	1.167	-	-	-0.12	0.246	0.29
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	136100	680.5	23.22	24.00	1.197	-	-	0.15	0.206	0.247
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	136100	680.5	23.33	24.00	1.167	-	-	-0.05	0.517	0.603
	FR1 n71	35M	QPSK	94	47	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	136100	680.5	23.22	24.00	1.197	-	-	-0.07	0.411	0.492
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	141500	707.5	23.19	24.00	1.205	-	-	0.01	0.415	0.500
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	141500	707.5	23.17	24.00	1.211	-	-	-0.15	0.449	0.544
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	141500	707.5	23.19	24.00	1.205	-	-	0.19	0.574	0.692
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	141500	707.5	23.17	24.00	1.211	-	-	0.02	0.625	0.757
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	141500	707.5	22.89	23.50	1.151	-	-	-0.18	0.250	0.29
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	141500	707.5	22.73	23.50	1.194	-	-	0.03	0.285	0.340
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	141500	707.5	22.89	23.50	1.151	-	-	-0.15	0.635	0.731
71	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	141500	707.5	22.73	23.50	1.194	-	-	-0.15	0.690	0.824
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	141500	707.5	22.20	23.00	1.202	-	-	-0.08	0.529	0.636
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 4	-	ECI 4	141500	707.5	23.34	24.00	1.164	-	-	-0.08	0.121	0.14
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	141500	707.5	23.34	24.00	1.164	-	-	0.05	0.100	0.12
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	158600	793	23.29	24.00	1.178	-	-	-0.04	0.581	0.684
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	158600	793	23.21	24.00	1.199	-	-	-0.08	0.556	0.667
72	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	158600	793	23.29	24.00	1.178	-	-	0.06	0.758	0.893
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	158600	793	23.21	24.00	1.199	-	-	0.17	0.731	0.877
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	158600	793	22.39	23.00	1.151	-	-	0.18	0.624	0.718
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	158600	793	23.48	24.00	1.127	-	-	-0.04	0.405	0.46
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	158600	793	23.37	24.00	1.156	-	-	-0.08	0.404	0.467
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	158600	793	23.48	24.00	1.127	-	-	-0.06	0.758	0.854
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	158600	793	23.37	24.00	1.156	-	-	-0.13	0.731	0.845
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	158600	793	22.30	23.00	1.175	-	-	-0.13	0.633	0.744
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	ECI 3	189	836.4	28.31	29.60	1.346	-	-	0.06	0.595	0.801
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	ECI 3	128	824.2	28.22	29.60	1.374	-	-	-0.03	0.560	0.769
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	ECI 3	251	848.8	28.14	29.60	1.400	-	-	-0.03	0.484	0.677
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	189	836.4	28.31	29.60	1.346	-	-	0.08	0.789	1.062
73	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	128	824.2	28.22	29.60	1.374	-	-	-0.09	0.924	1.270
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	ECI 3	251	848.8	28.14	29.60	1.400	-	-	-0.07	0.690	0.966
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	ECI 3	128	824.2	28.22	29.60	1.374	-	-	0.04	0.833	1.145
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	11mm	Ant 0	-	ECI 4	189	836.4	29.09	30.50	1.384	-	-	0.18	0.370	0.512
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	20mm	Ant 0	-	ECI 4	189	836.4	29.09	30.50	1.384	-	-	-0.1	0.173	0.239
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI 3	4182	836.4	21.31	22.70	1.377	-	-	0.05	0.581	0.800
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI 3	4132	826.4	21.27	22.70	1.390	-	-	-0.11	0.660	0.917
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	ECI 3	4233	846.6	21.30	22.70	1.380	-	-	-0.12	0.495	0.683
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI 3	4182	836.4	21.31	22.70	1.377	-	-	0.03	0.802	1.105
74	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI 3	4132	826.4	21.27	22.70	1.390	-	-	-0.06	0.926	1.287
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	ECI 3	4233	846.6	21.30	22.70	1.380	-	-	-0.16	0.717	0.990
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	ECI 3	4132	826.4	21.27	22.70	1.390	-	-	0.11	0.831	1.155
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	11mm	Ant 0	-	ECI 4	4182	836.4	23.22	24.00	1.197	-	-	0.01	0.345	0.413
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 0	-	ECI 4	4182	836.4	23.22	24.00	1.197	-	-	-0.15	0.158	0.189
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	26865	831.5	22.49	23.20	1.178	-	-	0.08	0.769	0.906
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	ECI 3	26865	831.5	22.03	23.00	1.250	-	-	0.01	0.600	0.750
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 0	-	ECI 3	26865	831.5	22.02	23.00	1.253	-	-	0.03	0.601	0.753
75	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	26865	831.5	22.49	23.20	1.178	-	-	0.02	1.080	1.272
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	-	ECI 3	20476+20575	831.6+841.5	22.24	23.20	1.247	-	-	0.07	0.956	1.192
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	ECI 3	26865	831.5	22.03	23.00	1.250	-	-	-0.08	0.833	1.041
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	ECI 3	26865	831.5	22.02	23.00	1.253	-	-	-0.08	0.841	1.054



FCC SAR Test Report

Report No. : FA483010

	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	ECI 3	26865	831.5	22.49	23.20	1.178	-	-	-0.09	0.930	1.095
	LTE Band 26	15M	QPSK	1	0	-	Front	11mm	Ant 0	-	ECI 4	26865	831.5	23.06	24.00	1.242	-	-	0.19	0.372	0.462
	LTE Band 26	15M	QPSK	1	0	-	Back	20mm	Ant 0	-	ECI 4	26865	831.5	23.06	24.00	1.242	-	-	0.07	0.186	0.231
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	26865	831.5	19.72	20.60	1.225	-	-	-0.18	0.393	0.481
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 4	-	ECI 3	26865	831.5	19.68	20.60	1.236	-	-	0.1	0.313	0.387
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26865	831.5	19.72	20.60	1.225	-	-	-0.04	0.720	0.882
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 4	-	ECI 3	20476+ 20575	831.6+ 841.5	19.51	20.60	1.285	-	-	0.06	0.603	0.775
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 4	-	ECI 3	26865	831.5	19.68	20.60	1.236	-	-	0.08	0.577	0.713
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 4	-	ECI 3	26865	831.5	19.64	20.60	1.247	-	-	-0.17	0.577	0.720
	LTE Band 26	15M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	26865	831.5	23.33	24.00	1.167	-	-	-0.18	0.324	0.378
	LTE Band 26	15M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	26865	831.5	23.33	24.00	1.167	-	-	0.03	0.166	0.194
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	166300	831.5	23.33	24.00	1.167	-	-	0.14	0.592	0.691
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Front	5mm	Ant 0	-	ECI 3	166300	831.5	23.23	24.00	1.194	-	-	0.11	0.542	0.647
76	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	166300	831.5	23.33	24.00	1.167	-	-	0.1	0.837	0.977
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	166300	831.5	23.23	24.00	1.194	-	-	0.18	0.769	0.918
	FR1 n26	20M	QPSK	128	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	ECI 3	166300	831.5	22.41	23.00	1.146	-	-	0.14	0.613	0.702
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	166300	831.5	21.89	23.00	1.291	-	-	0.17	0.395	0.510
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	166300	831.5	21.79	23.00	1.321	-	-	-0.05	0.396	0.523
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	21.89	23.00	1.291	-	-	0.19	0.690	0.891
	FR1 n26	20M	QPSK	64	33	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	21.79	23.00	1.321	-	-	0.01	0.681	0.900
	FR1 n26	20M	QPSK	128	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	166300	831.5	21.69	23.00	1.352	-	-	0.1	0.532	0.719
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 4	-	ECI 4	166300	831.5	23.49	24.00	1.125	-	-	0.03	0.192	0.216
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	166300	831.5	23.49	24.00	1.125	-	-	0.05	0.117	0.132
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 4	-	ECI 4	167300	836.5	23.40	24.00	1.148	-	-	-0.06	0.188	0.216
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	167300	836.5	23.40	24.00	1.148	-	-	0.05	0.121	0.139
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	1413	1732.6	19.13	20.10	1.250	-	-	-0.17	0.754	0.943
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	1312	1712.4	19.03	20.10	1.279	-	-	0.04	0.769	0.984
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	1513	1752.6	19.11	20.10	1.256	-	-	-0.01	0.849	1.066
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	1413	1732.6	19.13	20.10	1.250	-	-	-0.08	1.000	1.250
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	1312	1712.4	19.03	20.10	1.279	-	-	0.05	0.940	1.203
77	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	1513	1752.6	19.11	20.10	1.256	-	-	0.08	1.020	1.281
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	ECI 3	1513	1752.6	19.11	20.10	1.256	-	-	0.11	0.911	1.144
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	11mm	Ant 1	-	ECI 4	1413	1732.6	23.33	24.00	1.167	-	-	-0.15	0.564	0.658
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 1	-	ECI 4	1413	1732.6	23.33	24.00	1.167	-	-	-0.15	0.260	0.303
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	132322	1745	19.67	20.80	1.297	-	-	0.06	0.833	1.081
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	132072	1720	19.58	20.80	1.324	-	-	-0.09	0.791	1.048
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	132572	1770	19.52	20.80	1.343	-	-	-0.08	0.833	1.119
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	132322	1745	19.57	20.80	1.327	-	-	0.13	0.658	0.873
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	132072	1720	19.42	20.80	1.374	-	-	0.12	0.663	0.911
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	132572	1770	19.42	20.80	1.374	-	-	0.03	0.625	0.859
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	132322	1745	19.62	20.80	1.312	-	-	0.18	0.663	0.870
78	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	19.67	20.80	1.297	-	-	-0.02	0.985	1.278
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132072	1720	19.58	20.80	1.324	-	-	0.16	0.933	1.236
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	132572	1770	19.52	20.80	1.343	-	-	-0.1	0.950	1.276
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	19.57	20.80	1.327	-	-	0.07	0.777	1.031
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	132072	1720	19.42	20.80	1.374	-	-	0.18	0.777	1.068
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	132572	1770	19.42	20.80	1.374	-	-	-0.1	0.729	1.002
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	132322	1745	19.62	20.80	1.312	-	-	0.01	0.777	1.020
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	ECI 3	132322	1745	19.67	20.80	1.297	-	-	0.04	0.903	1.171
	LTE Band 66	20M	QPSK	1	0	-	Front	11mm	Ant 1	-	ECI 4	132322	1745	23.29	24.00	1.178	-	-	0.11	0.323	0.380
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	132322	1745	23.29	24.00	1.178	-	-	-0.08	0.260	0.306
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	132322	1745	16.49	17.80	1.352	-	-	-0.15	0.347	0.469
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	132322	1745	16.44	17.80	1.368	-	-	-0.18	0.278	0.380
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	132322	1745	16.49	17.80	1.352	-	-	0.11	0.595	0.804
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	132072	1720	16.47	17.80	1.358	-	-	0.15	0.647	0.879



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	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	132572	1770	16.33	17.80	1.403	-	-	-0.08	0.593	0.832
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	132322	1745	16.44	17.80	1.368	-	-	-0.17	0.472	0.646
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	132322	1745	16.38	17.80	1.387	-	-	-0.08	0.482	0.668
	LTE Band 66	20M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	132322	1745	21.25	22.00	1.189	-	-	-0.17	0.444	0.528
	LTE Band 66	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	132322	1745	21.25	22.00	1.189	-	-	-0.08	0.193	0.229
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	340500	1702.5	21.69	23.00	1.352	-	-	-0.13	0.748	1.011
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	340500	1702.5	21.64	23.00	1.368	-	-	0.06	0.734	1.004
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	340500	1702.5	21.40	23.00	1.445	-	-	-0.03	0.613	0.886
79	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	340500	1702.5	21.69	23.00	1.352	-	-	0.09	0.952	1.287
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	340500	1702.5	21.64	23.00	1.368	-	-	0.09	0.932	1.275
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	340500	1702.5	21.40	23.00	1.445	-	-	0.08	0.741	1.071
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	340500	1702.5	21.69	23.00	1.352	-	-	0.04	0.881	1.191
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 1	-	ECI 4	340500	1702.5	23.15	24.00	1.216	-	-	-0.04	0.402	0.489
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	340500	1702.5	23.15	24.00	1.216	-	-	-0.08	0.182	0.221
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	340500	1702.5	17.26	18.40	1.300	-	-	0.05	0.419	0.545
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	340500	1702.5	17.16	18.40	1.330	-	-	-0.11	0.408	0.543
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	340500	1702.5	17.26	18.40	1.300	-	-	0.03	0.616	0.801
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	340500	1702.5	17.16	18.40	1.330	-	-	0.05	0.682	0.907
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	340500	1702.5	17.05	18.40	1.365	-	-	-0.16	0.556	0.759
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 4	-	ECI 4	340500	1702.5	21.17	22.00	1.211	-	-	0.17	0.328	0.397
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	340500	1702.5	21.17	22.00	1.211	-	-	0.18	0.168	0.203
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	349000	1745	21.24	22.50	1.337	-	-	0.17	0.676	0.904
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	349000	1745	21.21	22.50	1.346	-	-	0.18	0.718	0.966
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	349000	1745	20.89	22.50	1.449	-	-	-0.04	0.566	0.820
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	21.24	22.50	1.337	-	-	-0.08	0.856	1.144
80	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	21.21	22.50	1.346	-	-	-0.03	0.959	1.291
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	20.89	22.50	1.449	-	-	-0.13	0.688	0.997
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	349000	1745	21.21	22.50	1.346	-	-	0.04	0.871	1.172
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	349000	1745	21.23	22.50	1.340	-	-	0.06	0.859	1.151
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 1	-	ECI 4	349000	1745	23.19	24.00	1.205	-	-	-0.04	0.427	0.515
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	349000	1745	23.19	24.00	1.205	-	-	-0.08	0.197	0.237
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	349000	1745	18.04	18.70	1.164	-	-	-0.02	0.442	0.515
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	349000	1745	17.84	18.70	1.219	-	-	0.15	0.417	0.508
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	18.04	18.70	1.164	-	-	0.11	0.669	0.779
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	17.84	18.70	1.219	-	-	0.07	0.674	0.822
	FR1 n66 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	17.73	18.70	1.250	-	-	-0.05	0.629	0.786
	FR1 n66 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	17.81	18.70	1.227	-	-	0.01	0.651	0.799
	FR1 n66 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	349000	1745	15.51	16.50	1.256	-	-	-0.04	0.435	0.546
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 4	-	ECI 4	349000	1745	21.18	22.00	1.208	-	-	-0.13	0.410	0.495
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	349000	1745	21.18	22.00	1.208	-	-	-0.13	0.146	0.176
1900MHz																					
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	ECI 3	661	1880	23.54	24.90	1.368	-	-	0.01	0.755	1.033
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	ECI 3	512	1850.2	23.46	24.90	1.393	-	-	0.03	0.646	0.900
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 1	-	ECI 3	810	1909.8	23.51	24.90	1.377	-	-	-0.08	0.772	1.063
81	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	ECI 3	661	1880	23.54	24.90	1.368	-	-	0.02	0.925	1.265
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	ECI 3	512	1850.2	23.46	24.90	1.393	-	-	-0.08	0.772	1.076
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 1	-	ECI 3	810	1909.8	23.51	24.90	1.377	-	-	0.1	0.876	1.206
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	11mm	Ant 1	-	ECI 4	661	1880	25.09	26.50	1.384	-	-	0.06	0.317	0.439
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	20mm	Ant 1	-	ECI 4	661	1880	25.09	26.50	1.384	-	-	-0.03	0.156	0.216
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	9400	1880	20.18	21.00	1.208	-	-	0.1	0.790	0.954
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	9262	1852.4	20.11	21.00	1.227	-	-	0.12	0.810	0.994
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	ECI 3	9538	1907.6	20.16	21.00	1.213	-	-	0.08	0.942	1.143
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	9400	1880	20.18	21.00	1.208	-	-	-0.17	1.000	1.208
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	9262	1852.4	20.11	21.00	1.227	-	-	-0.03	0.918	1.127
82	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	ECI 3	9538	1907.6	20.16	21.00	1.213	-	-	0.02	1.060	1.286
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Headset	ECI 3	9538	1907.6	20.16	21.00	1.213	-	-	-0.04	0.901	1.093



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	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	11mm	Ant 1	-	ECI 4	9400	1880	23.15	24.00	1.216	-	-	-0.03	0.623	0.758
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	20mm	Ant 1	-	ECI 4	9400	1880	23.15	24.00	1.216	-	-	0.08	0.320	0.389
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	26340	1880	20.22	21.00	1.197	-	-	0.11	0.880	1.053
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	26140	1860	20.11	21.00	1.227	-	-	-0.05	0.810	0.994
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	26590	1905	20.13	21.00	1.222	-	-	0.18	0.920	1.124
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	26340	1880	20.11	21.00	1.227	-	-	0.14	0.690	0.847
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	26140	1860	19.90	21.00	1.288	-	-	-0.17	0.695	0.895
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	26590	1905	20.08	21.00	1.236	-	-	0.17	0.650	0.803
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	26340	1880	20.17	21.00	1.211	-	-	-0.05	0.735	0.890
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	26340	1880	20.22	21.00	1.197	-	-	0.01	0.985	1.179
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	26140	1860	20.11	21.00	1.227	-	-	0.1	0.950	1.166
83	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	26590	1905	20.13	21.00	1.222	-	-	0.02	1.040	1.271
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	26340	1880	20.11	21.00	1.227	-	-	-0.17	0.775	0.951
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	26140	1860	19.90	21.00	1.288	-	-	0.04	0.780	1.005
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	26590	1905	20.08	21.00	1.236	-	-	-0.01	0.745	0.921
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	26340	1880	20.17	21.00	1.211	-	-	-0.08	0.825	0.999
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	ECI 3	26590	1905	20.13	21.00	1.222	-	-	0.04	0.927	1.133
	LTE Band 25	20M	QPSK	1	0	-	Front	11mm	Ant 1	-	ECI 4	26340	1880	23.15	24.00	1.216	-	-	-0.07	0.638	0.776
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	26340	1880	23.15	24.00	1.216	-	-	0.05	0.305	0.371
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	26340	1880	15.64	16.90	1.337	-	-	0.06	0.398	0.532
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	26340	1880	15.59	16.90	1.352	-	-	0.13	0.327	0.442
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	15.64	16.90	1.337	-	-	0.04	0.662	0.885
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26140	1860	15.59	16.90	1.352	-	-	0.16	0.608	0.822
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26590	1905	15.56	16.90	1.361	-	-	-0.1	0.631	0.859
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	15.59	16.90	1.352	-	-	0.07	0.550	0.744
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	15.59	16.90	1.352	-	-	0.01	0.526	0.711
	LTE Band 25 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	26340	1880	17.41	18.50	1.285	-	-	-0.15	0.606	0.779
	LTE Band 25	20M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	26340	1880	21.23	22.00	1.194	-	-	-0.11	0.474	0.566
	LTE Band 25	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	26340	1880	21.23	22.00	1.194	-	-	-0.12	0.225	0.269
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	376500	1882.5	21.93	23.30	1.371	-	-	0.07	0.770	1.056
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	376500	1882.5	21.92	23.30	1.374	-	-	-0.18	0.793	1.090
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	376500	1882.5	21.58	23.00	1.387	-	-	0.03	0.675	0.936
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376500	1882.5	21.93	23.30	1.371	-	-	-0.15	0.886	1.215
84	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376500	1882.5	21.92	23.30	1.374	-	-	-0.04	0.936	1.286
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376500	1882.5	21.58	23.00	1.387	-	-	-0.15	0.778	1.079
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	376000	1880	21.74	23.30	1.432	-	-	-0.04	0.799	1.144
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	376500	1882.5	21.92	23.30	1.374	-	-	0.04	0.851	1.169
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 1	-	ECI 4	376500	1882.5	23.37	24.00	1.156	-	-	0.03	0.449	0.519
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	376500	1882.5	23.37	24.00	1.156	-	-	-0.16	0.196	0.227
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	376500	1882.5	19.33	19.80	1.114	-	-	-0.08	0.455	0.507
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 4	-	ECI 3	376500	1882.5	19.21	19.80	1.146	-	-	0.16	0.482	0.552
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376500	1882.5	19.33	19.80	1.114	-	-	0.05	0.720	0.802
	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376500	1882.5	19.21	19.80	1.146	-	-	0.08	0.770	0.882
	FR1 n25 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376500	1882.5	19.11	19.80	1.172	-	-	-0.03	0.608	0.713
	FR1 n25 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376500	1882.5	19.37	19.80	1.104	-	-	0.06	0.744	0.821
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376000	1880	19.34	19.80	1.112	-	-	0.06	0.711	0.790
	FR1 n2 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376000	1880	19.30	19.80	1.122	-	-	0.06	0.723	0.811
	FR1 n25 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 4	-	ECI 3	376500	1882.5	17.38	18.50	1.294	-	-	0.03	0.637	0.824
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 4	-	ECI 4	376500	1882.5	23.11	24.00	1.227	-	-	-0.02	0.430	0.528
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 4	-	ECI 4	376500	1882.5	23.11	24.00	1.227	-	-	0.15	0.225	0.276
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	27710	2310	23.20	24.00	1.202	-	-	0.11	0.838	1.007
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	ECI 3	27710	2310	22.20	23.00	1.202	-	-	-0.08	0.668	0.803
	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	27710	2310	22.18	23.00	1.208	-	-	-0.17	0.678	0.819
85	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	27710	2310	23.20	24.00	1.202	-	-	0.01	0.921	1.107



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	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	ECI 3	27710	2310	22.20	23.00	1.202	-	-	-0.08	0.741	0.891
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	27710	2310	22.18	23.00	1.208	-	-	-0.04	0.743	0.897
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	27710	2310	23.02	24.00	1.253	-	-	0.17	0.176	0.221
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Front	5mm	Ant 4	-	ECI 3	27710	2310	21.88	23.00	1.294	-	-	0.18	0.137	0.177
	LTE Band 30 Other PA	10M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	27710	2310	23.02	24.00	1.253	-	-	0.02	0.316	0.396
	LTE Band 30 Other PA	10M	QPSK	25	0	-	Back	5mm	Ant 4	-	ECI 3	27710	2310	21.88	23.00	1.294	-	-	-0.04	0.266	0.344
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	462000	2310	23.37	24.00	1.156	-	-	-0.13	0.793	0.917
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	462000	2310	23.35	24.00	1.161	-	-	-0.13	0.776	0.901
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	462000	2310	22.37	23.00	1.156	-	-	0.06	0.577	0.667
86	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	462000	2310	23.37	24.00	1.156	-	-	0.08	0.942	1.089
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	462000	2310	23.35	24.00	1.161	-	-	-0.03	0.909	1.056
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	462000	2310	22.37	23.00	1.156	-	-	-0.03	0.672	0.777
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	21100	2535	20.73	21.80	1.279	-	-	0.08	0.752	0.962
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	20850	2510	20.59	21.80	1.321	-	-	-0.07	0.729	0.963
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	21350	2560	20.65	21.80	1.303	-	-	0.05	0.678	0.884
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	21100	2535	20.64	21.80	1.306	-	-	-0.11	0.616	0.805
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	20850	2510	20.51	21.80	1.346	-	-	-0.12	0.598	0.805
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	21350	2560	20.56	21.80	1.330	-	-	0.03	0.584	0.777
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	21100	2535	20.55	21.80	1.334	-	-	-0.16	0.551	0.735
87	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	21100	2535	20.73	21.80	1.279	-	-	0.09	1.000	1.279
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	20850	2510	20.59	21.80	1.321	-	-	-0.02	0.961	1.270
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	21350	2560	20.65	21.80	1.303	-	-	0.15	0.949	1.237
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	21100	2535	20.64	21.80	1.306	-	-	-0.09	0.785	1.025
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	20850	2510	20.51	21.80	1.346	-	-	0.11	0.790	1.063
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	21350	2560	20.56	21.80	1.330	-	-	-0.05	0.771	1.026
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	21100	2535	20.55	21.80	1.334	-	-	-0.08	0.752	1.003
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	Headset	ECI 3	21100	2535	20.73	21.80	1.279	-	-	0.01	0.908	1.162
	LTE Band 7	20M	QPSK	1	0	-	Front	11mm	Ant 1	-	ECI 4	21100	2535	23.19	24.00	1.205	-	-	-0.09	0.476	0.574
	LTE Band 7	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	21100	2535	23.19	24.00	1.205	-	-	0.11	0.236	0.284
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	21100	2535	23.37	24.00	1.156	-	-	0.05	0.266	0.308
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	21100	2535	22.35	23.00	1.161	-	-	0.05	0.219	0.254
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	21100	2535	23.37	24.00	1.156	-	-	-0.03	0.564	0.652
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	20850	2510	23.18	24.00	1.208	-	-	0.02	0.584	0.705
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	21350	2560	23.28	24.00	1.180	-	-	-0.15	0.542	0.640
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	21100	2535	22.35	23.00	1.161	-	-	0.02	0.427	0.496
	LTE Band 7 Other PA	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	21100	2535	22.24	23.00	1.191	-	-	0.13	0.379	0.451
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	40620	2593	22.60	23.20	1.148	62.9	1.006	0.02	0.659	0.761
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	39750	2506	22.46	23.20	1.186	62.9	1.006	-0.03	0.707	0.843
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	40185	2549.5	22.52	23.20	1.169	62.9	1.006	0.07	0.710	0.835
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	41055	2636.5	22.45	23.20	1.189	62.9	1.006	0	0.625	0.747
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	ECI 3	41490	2680	22.33	23.20	1.222	62.9	1.006	0.01	0.568	0.698
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	40620	2593	21.94	23.00	1.276	62.9	1.006	-0.01	0.515	0.661
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	39750	2506	21.72	23.00	1.343	62.9	1.006	-0.04	0.556	0.751
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	40185	2549.5	21.72	23.00	1.343	62.9	1.006	-0.09	0.559	0.755
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	41055	2636.5	21.91	23.00	1.285	62.9	1.006	-0.17	0.499	0.645
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	ECI 3	41490	2680	21.71	23.00	1.346	62.9	1.006	-0.1	0.455	0.616
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 1	-	ECI 3	40620	2593	21.90	23.00	1.288	62.9	1.006	0.18	0.522	0.677
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	22.60	23.20	1.148	62.9	1.006	-0.17	0.948	1.095
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	ECI 3	40620+ 40818	2593+ 2612.8	22.52	23.20	1.169	62.9	1.006	0.04	0.912	1.073
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	39750	2506	22.46	23.20	1.186	62.9	1.006	-0.05	0.910	1.086
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	40185	2549.5	22.52	23.20	1.169	62.9	1.006	0	0.920	1.082



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	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	41055	2636.5	22.45	23.20	1.189	62.9	1.006	-0.13	0.824	0.985
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	41490	2680	22.33	23.20	1.222	62.9	1.006	-0.01	0.682	0.838
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	21.94	23.00	1.276	62.9	1.006	-0.09	0.718	0.922
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	39750	2506	21.72	23.00	1.343	62.9	1.006	0.02	0.749	1.012
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	40185	2549.5	21.72	23.00	1.343	62.9	1.006	-0.13	0.754	1.019
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	41055	2636.5	21.91	23.00	1.285	62.9	1.006	0.17	0.661	0.855
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	ECI 3	41490	2680	21.71	23.00	1.346	62.9	1.006	0.06	0.539	0.730
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	21.90	23.00	1.288	62.9	1.006	0	0.716	0.928
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	ECI 3	40620	2593	23.83	24.80	1.250	42.9	1.009	0.08	0.940	1.186
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 1	-	ECI 3	40620+ 40818	2593+ 2612.8	22.74	24.80	1.607	42.9	1.009	0.01	0.726	1.177
	LTE Band 41	20M	QPSK	1	0	-	Front	11mm	Ant 1	-	ECI 4	40620	2593	23.15	24.00	1.216	62.9	1.006	-0.05	0.251	0.307
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	11mm	Ant 1	-	ECI 4	40620	2593	26.14	27.00	1.219	42.9	1.009	-0.08	0.362	0.445
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	40620	2593	23.15	24.00	1.216	62.9	1.006	0.16	0.115	0.141
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	20mm	Ant 1	-	ECI 4	40620	2593	26.14	27.00	1.219	42.9	1.009	0.05	0.164	0.202
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	ECI 3	40620	2593	22.17	23.00	1.211	62.9	1.006	-0.15	0.276	0.336
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	ECI 3	40620	2593	21.11	22.00	1.227	62.9	1.006	0.11	0.208	0.257
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	40620	2593	22.17	23.00	1.211	62.9	1.006	-0.02	0.568	0.692
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	39750	2506	22.08	23.00	1.236	62.9	1.006	0.04	0.676	0.841
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	40185	2549.5	21.87	23.00	1.297	62.9	1.006	0.13	0.678	0.885
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 0	-	ECI 3	40185+ 40383	2549.5+ 2569.3	21.77	23.00	1.327	62.9	1.006	0.04	0.655	0.875
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	41055	2636.5	21.92	23.00	1.282	62.9	1.006	-0.18	0.604	0.779
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	41490	2680	21.98	23.00	1.265	62.9	1.006	-0.11	0.659	0.838
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	40620	2593	21.11	22.00	1.227	62.9	1.006	-0.16	0.503	0.621
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	39750	2506	20.99	22.00	1.262	62.9	1.006	-0.06	0.541	0.687
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	40185	2549.5	20.89	22.00	1.291	62.9	1.006	-0.14	0.474	0.616
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	41055	2636.5	21.04	22.00	1.247	62.9	1.006	-0.19	0.469	0.589
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	ECI 3	41490	2680	21.00	22.00	1.259	62.9	1.006	0.01	0.529	0.670
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	ECI 3	40620	2593	20.89	22.00	1.291	62.9	1.006	0.06	0.437	0.568
88	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	ECI 3	40185	2549.5	24.69	26.00	1.352	42.9	1.009	-0.05	0.875	1.194
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 0	-	ECI 3	40185+ 40383	2549.5+ 2569.3	24.66	26.00	1.361	42.9	1.009	0.01	0.811	1.114
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	ECI 3	40620	2593	18.35	19.10	1.189	62.9	1.006	0.12	0.314	0.375
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	ECI 3	40620	2593	17.69	19.00	1.352	62.9	1.006	-0.16	0.236	0.321
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	40620	2593	18.35	19.10	1.189	62.9	1.006	-0.12	0.474	0.567
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	39750	2506	18.31	19.10	1.199	62.9	1.006	-0.13	0.728	0.878
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	40185	2549.5	18.33	19.10	1.194	62.9	1.006	0.08	0.732	0.879
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 4	-	ECI 3	40185+ 40383	2549.5+ 2569.3	18.27	19.10	1.211	62.9	1.006	-0.01	0.701	0.854
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	41055	2636.5	18.29	19.10	1.205	62.9	1.006	0.16	0.406	0.492
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	41490	2680	18.13	19.10	1.250	62.9	1.006	0.01	0.390	0.491
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	40620	2593	17.69	19.00	1.352	62.9	1.006	-0.16	0.378	0.514
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	39750	2506	17.59	19.00	1.384	62.9	1.006	-0.04	0.581	0.809
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	40185	2549.5	17.54	19.00	1.400	62.9	1.006	-0.01	0.509	0.717
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	41055	2636.5	17.58	19.00	1.387	62.9	1.006	0	0.322	0.449
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	ECI 3	41490	2680	17.11	19.00	1.545	62.9	1.006	-0.11	0.309	0.480
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 4	-	ECI 3	40620	2593	17.59	19.00	1.384	62.9	1.006	-0.06	0.374	0.521
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	ECI 3	40185	2549.5	19.98	20.70	1.180	42.9	1.009	0.01	0.748	0.891
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Back	5mm	Ant 4	-	ECI 3	40185+ 40383	2549.5+ 2569.3	19.88	20.70	1.208	42.9	1.009	0.03	0.729	0.888
	LTE Band 41	20M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	40620	2593	19.15	20.00	1.216	62.9	1.006	0.01	0.113	0.138
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	11mm	Ant 4	-	ECI 4	40620	2593	22.05	23.00	1.245	42.9	1.009	0.05	0.156	0.196
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	40620	2593	19.15	20.00	1.216	62.9	1.006	0.06	0.095	0.116
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	20mm	Ant 4	-	ECI 4	40620	2593	22.05	23.00	1.245	42.9	1.009	-0.03	0.125	0.157
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 10	-	ECI 3	40620	2593	19.13	19.90	1.194	62.9	1.006	0.03	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 10	-	ECI 3	40620	2593	18.72	19.90	1.312	62.9	1.006	-0.13	0.000	0.000



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	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	40620	2593	19.13	19.90	1.194	62.9	1.006	0.16	0.540	0.649
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	39750	2506	18.89	19.90	1.262	62.9	1.006	-0.02	0.400	0.508
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	40185	2549.5	19.04	19.90	1.219	62.9	1.006	-0.09	0.452	0.554
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	41055	2636.5	18.82	19.90	1.282	62.9	1.006	0.14	0.630	0.813
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	41490	2680	18.76	19.90	1.300	62.9	1.006	0.1	0.687	0.899
	LTE Band 41C	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	41490+41292	2680+26602	18.60	19.90	1.349	62.9	1.006	0.04	0.661	0.897
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 10	-	ECI 3	40620	2593	18.72	19.90	1.312	62.9	1.006	-0.09	0.451	0.595
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 10	-	ECI 3	40620	2593	18.76	19.90	1.300	62.9	1.006	0.11	0.477	0.624
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	41490	2680	20.45	21.50	1.274	42.9	1.009	-0.04	0.692	0.889
	LTE Band 41C HPUE	20M	QPSK	1	0	-	Back	5mm	Ant 10	-	ECI 3	41490+41292	2680+26602	20.27	21.50	1.327	42.9	1.009	0.01	0.655	0.877
	LTE Band 41	20M	QPSK	1	0	-	Front	11mm	Ant 10	-	ECI 4	40620	2593	19.97	21.00	1.268	62.9	1.006	-0.15	0.002	0.003
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Front	11mm	Ant 10	-	ECI 4	40620	2593	23.02	24.00	1.253	42.9	1.009	-0.15	0.004	0.005
	LTE Band 41	20M	QPSK	1	0	-	Back	20mm	Ant 10	-	ECI 4	40620	2593	19.97	21.00	1.268	62.9	1.006	0.02	0.055	0.070
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Back	20mm	Ant 10	-	ECI 4	40620	2593	23.02	24.00	1.253	42.9	1.009	0.02	0.077	0.097
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	21.93	23.20	1.340	-	-	-0.1	0.753	1.009
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	21.80	23.20	1.380	-	-	-0.01	0.810	1.118
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	ECI 3	507000	2535	21.60	23.00	1.380	-	-	-0.09	0.619	0.854
89	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	507000	2535	21.93	23.20	1.340	-	-	0.09	0.963	1.290
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	507000	2535	21.80	23.20	1.380	-	-	-0.06	0.912	1.259
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	ECI 3	507000	2535	21.60	23.00	1.380	-	-	-0.17	0.765	1.056
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	Headset	ECI 3	507000	2535	21.93	23.20	1.340	-	-	0.11	0.877	1.175
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	11mm	Ant 1	-	ECI 4	507000	2535	23.32	24.00	1.169	-	-	0.07	0.356	0.416
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	20mm	Ant 1	-	ECI 4	507000	2535	23.32	24.00	1.169	-	-	0.16	0.168	0.196
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	-	ECI 3	518598	2592.99	20.56	21.80	1.330	-	-	-0.11	0.807	1.074
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	-	ECI 3	518598	2592.99	20.52	21.80	1.343	-	-	0.14	0.677	0.909
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 1	-	ECI 3	518598	2592.99	20.25	21.80	1.429	-	-	0.03	0.641	0.916
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	-	ECI 3	518598	2592.99	20.56	21.80	1.330	-	-	0.01	0.963	1.281
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	-	ECI 3	518598	2592.99	20.52	21.80	1.343	-	-	0.1	0.901	1.210
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 1	-	ECI 3	518598	2592.99	20.25	21.80	1.429	-	-	0.16	0.804	1.149
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	Headset	ECI 3	518598	2592.99	20.56	21.80	1.330	-	-	0.01	0.911	1.212
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 1	-	ECI 4	518598	2592.99	26.41	27.00	1.146	-	-	0.13	0.714	0.818
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 1	-	ECI 4	518598	2592.99	26.41	27.00	1.146	-	-	-0.18	0.342	0.392
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	-	ECI 3	518598	2592.99	17.79	19.20	1.384	-	-	0.02	0.305	0.422
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	-	ECI 3	518598	2592.99	17.72	19.20	1.406	-	-	-0.16	0.252	0.354
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 4	-	ECI 3	518598	2592.99	17.53	19.20	1.469	-	-	0.05	0.227	0.333
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	-	ECI 3	518598	2592.99	17.79	19.20	1.384	-	-	0.02	0.639	0.884
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	-	ECI 3	518598	2592.99	17.72	19.20	1.406	-	-	-0.03	0.490	0.689
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 4	-	ECI 3	518598	2592.99	17.53	19.20	1.469	-	-	0.17	0.438	0.643
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 4	-	ECI 4	518598	2592.99	22.20	23.00	1.202	-	-	-0.03	0.392	0.471
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 4	-	ECI 4	518598	2592.99	22.20	23.00	1.202	-	-	0.07	0.253	0.304
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 0	-	ECI 3	518598	2592.99	22.79	24.10	1.352	-	-	0.16	0.582	0.787
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 0	-	ECI 3	518598	2592.99	22.75	24.10	1.365	-	-	0.05	0.616	0.841
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 0	-	ECI 3	518598	2592.99	22.45	24.10	1.462	-	-	-0.06	0.435	0.636
90	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 0	-	ECI 3	518598	2592.99	22.79	24.10	1.352	-	-	-0.06	0.957	1.294
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 0	-	ECI 3	518598	2592.99	22.75	24.10	1.365	-	-	-0.06	0.937	1.279
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 0	-	ECI 3	518598	2592.99	22.45	24.10	1.462	-	-	-0.01	0.733	1.072
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 0	Headset	ECI 3	518598	2592.99	22.79	24.10	1.352	-	-	0.11	0.911	1.232
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 0	-	ECI 4	518598	2592.99	25.33	26.00	1.167	-	-	-0.01	0.320	0.373
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 0	-	ECI 4	518598	2592.99	25.33	26.00	1.167	-	-	-0.06	0.144	0.168
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 10	-	ECI 3	518598	2592.99	19.08	20.20	1.294	-	-	0.19	0.017	0.022
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 10	-	ECI 3	518598	2592.99	19.01	20.20	1.315	-	-	-0.14	0.022	0.029
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 10	-	ECI 3	518598	2592.99	19.08	20.20	1.294	-	-	-0.18	0.621	0.804
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 10	-	ECI 3	518598	2592.99	19.01	20.20	1.315	-	-	-0.01	0.686	0.902
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 10	-	ECI 3	518598	2592.99	18.79	20.20	1.384	-	-	-0.06	0.433	0.599



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	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 10	-	ECI 4	518598	2592.99	23.14	24.00	1.219	-	-	-0.17	0.001	0.001
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 10	-	ECI 4	518598	2592.99	23.14	24.00	1.219	-	-	-0.1	0.104	0.127
3500MHz																					
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 3	-	ECI 3	55830	3609	14.68	16.30	1.452	62.9	1.006	0.02	0.082	0.120
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 3	-	ECI 3	55830	3609	14.65	16.30	1.462	62.9	1.006	0.13	0.065	0.096
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	ECI 3	55830	3609	14.68	16.30	1.452	62.9	1.006	-0.06	0.561	0.820
91	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	ECI 3	55340	3560	14.61	16.30	1.476	62.9	1.006	-0.02	0.602	0.894
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 3	-	ECI 3	55340+ 55538	3560+ 3579.8	10.94	12.30	1.368	62.9	1.006	0.09	0.268	0.369
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	ECI 3	56150	3641	14.67	16.30	1.455	62.9	1.006	0	0.523	0.766
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 3	-	ECI 3	56640	3690	14.57	16.30	1.489	62.9	1.006	-0.03	0.458	0.686
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	ECI 3	55830	3609	14.65	16.30	1.462	62.9	1.006	0.07	0.445	0.655
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	ECI 3	55340	3560	14.56	16.30	1.493	62.9	1.006	-0.12	0.478	0.718
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	ECI 3	56150	3641	14.62	16.30	1.472	62.9	1.006	-0.03	0.413	0.612
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 3	-	ECI 3	56640	3690	14.51	16.30	1.510	62.9	1.006	0.02	0.366	0.556
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 3	-	ECI 3	55830	3609	14.62	16.30	1.472	62.9	1.006	0.12	0.442	0.655
	LTE Band 48	20M	QPSK	1	0	-	Front	11mm	Ant 3	-	ECI 4	55830	3609	23.05	24.00	1.245	62.9	1.006	-0.04	0.243	0.304
	LTE Band 48	20M	QPSK	1	0	-	Back	20mm	Ant 3	-	ECI 4	55830	3609	23.05	24.00	1.245	62.9	1.006	-0.05	0.449	0.562
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	641666	3624.99	14.09	15.30	1.321	-	-	-0.03	0.080	0.106
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	641666	3624.99	13.97	15.30	1.358	-	-	0	0.091	0.124
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	641666	3624.99	14.09	15.30	1.321	-	-	0.05	0.640	0.846
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	641666	3624.99	13.97	15.30	1.358	-	-	-0.15	0.670	0.910
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	641666	3624.99	13.79	15.30	1.416	-	-	0	0.495	0.701
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 3	-	ECI 4	641666	3624.99	22.94	24.00	1.276	-	-	0	0.318	0.406
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	641666	3624.99	22.94	24.00	1.276	-	-	-0.13	0.644	0.822
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	641666	3624.99	15.99	16.90	1.233	-	-	0.15	0.138	0.170
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	641666	3624.99	15.92	16.90	1.253	-	-	-0.05	0.161	0.202
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	641666	3624.99	15.99	16.90	1.233	-	-	-0.08	0.705	0.869
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	641666	3624.99	15.92	16.90	1.253	-	-	-0.04	0.712	0.892
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	641666	3624.99	15.79	16.90	1.291	-	-	-0.08	0.536	0.692
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 5	-	ECI 4	641666	3624.99	17.43	18.00	1.140	-	-	-0.01	0.056	0.064
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 5	-	ECI 4	641666	3624.99	17.43	18.00	1.140	-	-	-0.09	0.060	0.068
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	641666	3624.99	19.88	21.30	1.387	-	-	0.01	0.401	0.556
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	641666	3624.99	19.82	21.30	1.406	-	-	-0.11	0.609	0.856
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	641666	3624.99	19.88	21.30	1.387	-	-	0.03	0.432	0.599
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	641666	3624.99	19.82	21.30	1.406	-	-	-0.05	0.705	0.991
92	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	641666	3624.99	19.88	21.30	1.387	-	-	-0.12	0.922	1.279
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	641666	3624.99	19.82	21.30	1.406	-	-	0.14	0.798	1.122
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	Headset	ECI 3	641666	3624.99	19.88	21.30	1.387	-	-	0.04	0.804	1.115
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 9	-	ECI 4	641666	3624.99	24.23	24.50	1.064	-	-	0.05	0.288	0.306
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 9	-	ECI 4	641666	3624.99	24.23	24.50	1.064	-	-	0.02	0.260	0.277
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	641666	3624.99	16.16	17.50	1.361	-	-	-0.12	0.230	0.313
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	641666	3624.99	16.00	17.50	1.413	-	-	0.07	0.220	0.311
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	641666	3624.99	16.16	17.50	1.361	-	-	-0.09	0.646	0.879
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	641666	3624.99	16.00	17.50	1.413	-	-	0.09	0.624	0.881
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	641666	3624.99	15.93	17.00	1.279	-	-	0.04	0.452	0.578
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 7	-	ECI 4	641666	3624.99	17.61	18.00	1.094	-	-	-0.13	0.109	0.119
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 7	-	ECI 4	641666	3624.99	17.61	18.00	1.094	-	-	0.17	0.054	0.059
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	656000	3840	12.39	13.70	1.352	-	-	-0.13	0.107	0.145
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	656000	3840	12.29	13.70	1.384	-	-	0.12	0.101	0.140
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	12.39	13.70	1.352	-	-	-0.05	0.466	0.630
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	656000	3840	12.29	13.70	1.384	-	-	0.17	0.441	0.610
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 3	-	ECI 4	656000	3840	24.66	25.50	1.213	-	-	0.09	0.551	0.669
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	656000	3840	24.66	25.50	1.213	-	-	0.02	0.710	0.862
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	650000	3750	24.58	25.50	1.236	-	-	0.08	0.625	0.772
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	662000	3930	24.48	25.50	1.265	-	-	0.01	0.611	0.773
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	11mm	Ant 3	-	ECI 4	656000	3840	24.59	25.50	1.233	-	-	0.03	0.547	0.675



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	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	656000	3840	24.55	25.50	1.245	-	-	0.03	0.601	0.748
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	633334	3500.01	12.28	13.70	1.387	-	-	0.11	0.095	0.132
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	-	ECI 3	633334	3500.01	12.11	13.70	1.442	-	-	-0.05	0.092	0.133
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	633334	3500.01	12.28	13.70	1.387	-	-	-0.14	0.619	0.858
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	633334	3500.01	12.11	13.70	1.442	-	-	0.01	0.644	0.929
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 3	-	ECI 3	633334	3500.01	12.00	13.70	1.479	-	-	-0.15	0.498	0.737
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 3	-	ECI 4	633334	3500.01	24.66	25.50	1.213	-	-	0.01	0.559	0.678
93	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	633334	3500.01	24.66	25.50	1.213	-	-	-0.08	1.070	1.298
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	633334	3500.01	24.62	25.50	1.225	-	-	-0.08	1.010	1.237
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	20mm	Ant 3	-	ECI 4	633334	3500.01	24.57	25.50	1.239	-	-	-0.08	0.995	1.233
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	Headset	ECI 4	633334	3500.01	24.66	25.50	1.213	-	-	0.04	0.933	1.132
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	656000	3840	15.23	16.60	1.371	-	-	-0.18	0.138	0.189
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	656000	3840	15.05	16.60	1.429	-	-	-0.03	0.111	0.159
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	15.23	16.60	1.371	-	-	0.01	0.652	0.894
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	15.05	16.60	1.429	-	-	-0.04	0.533	0.762
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	656000	3840	14.95	16.60	1.462	-	-	-0.09	0.382	0.559
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 5	-	ECI 4	656000	3840	19.58	21.00	1.387	-	-	-0.02	0.101	0.140
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 5	-	ECI 4	656000	3840	19.58	21.00	1.387	-	-	0.1	0.115	0.159
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	633334	3500.01	16.14	16.60	1.112	-	-	0.11	0.071	0.079
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 5	-	ECI 3	633334	3500.01	16.02	16.60	1.143	-	-	0.07	0.104	0.119
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	633334	3500.01	16.14	16.60	1.112	-	-	0.01	0.640	0.712
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	633334	3500.01	16.02	16.60	1.143	-	-	-0.03	0.623	0.712
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 5	-	ECI 3	633334	3500.01	15.90	16.60	1.175	-	-	0.09	0.501	0.589
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 5	-	ECI 4	633334	3500.01	20.11	21.00	1.227	-	-	0.04	0.054	0.066
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 5	-	ECI 4	633334	3500.01	20.11	21.00	1.227	-	-	0.04	0.066	0.081
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	656000	3840	19.17	20.20	1.268	-	-	-0.03	0.483	0.612
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	656000	3840	19.00	20.20	1.318	-	-	0.17	0.531	0.700
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	656000	3840	19.17	20.20	1.268	-	-	-0.09	0.990	1.255
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	Headset	ECI 3	656000	3840	19.17	20.20	1.268	-	-	0.04	0.901	1.142
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	656000	3840	19.00	20.20	1.318	-	-	0	0.940	1.239
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	656000	3840	18.88	20.20	1.355	-	-	0.18	0.728	0.987
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	633334	3500.01	18.71	20.20	1.409	-	-	-0.05	0.173	0.244
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	-	ECI 3	633334	3500.01	18.58	20.20	1.452	-	-	-0.04	0.231	0.335
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	633334	3500.01	18.71	20.20	1.409	-	-	0	0.306	0.431
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	-	ECI 3	633334	3500.01	18.58	20.20	1.452	-	-	0.06	0.335	0.486
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	656000	3840	16.51	17.30	1.199	-	-	-0.17	0.142	0.170
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	656000	3840	16.37	17.30	1.239	-	-	0.01	0.127	0.157
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	656000	3840	16.51	17.30	1.199	-	-	0.01	0.266	0.319
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	656000	3840	16.37	17.30	1.239	-	-	0.1	0.213	0.264
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 7	-	ECI 4	656000	3840	19.65	21.00	1.365	-	-	0.01	0.089	0.121
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 7	-	ECI 4	656000	3840	19.65	21.00	1.365	-	-	0.06	0.047	0.064
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	633334	3500.01	16.53	17.30	1.194	-	-	-0.07	0.154	0.184
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	-	ECI 3	633334	3500.01	16.45	17.30	1.216	-	-	0.18	0.220	0.268
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	633334	3500.01	16.53	17.30	1.194	-	-	0.12	0.488	0.583
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	633334	3500.01	16.45	17.30	1.216	-	-	-0.06	0.688	0.837
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 7	-	ECI 3	633334	3500.01	16.28	17.30	1.265	-	-	0.07	0.422	0.534
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	11mm	Ant 7	-	ECI 4	633334	3500.01	20.53	21.00	1.114	-	-	0.02	0.107	0.119
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 7	-	ECI 4	633334	3500.01	20.53	21.00	1.114	-	-	0.12	0.041	0.046

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	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)
WIFI/BT																	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6		Sensor on	11	2462	19.53	21.00	1.403	98.26	1.018	0.08	0.406	0.580
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6		Sensor on	11	2462	19.53	21.00	1.403	98.26	1.018	-0.08	0.736	1.051
94	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6		Sensor on	1	2412	19.17	21.00	1.524	98.26	1.018	-0.01	0.824	1.278
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6		Sensor on	6	2437	19.51	21.00	1.409	98.26	1.018	-0.18	0.783	1.123
	WLAN2.4GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6		Sensor on	6	2437	19.57	21.00	1.390	98.00	1.020	0.04	0.742	1.052
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Headset	Sensor on	1	2412	19.17	21.00	1.524	98.26	1.018	-0.08	0.718	1.114
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6		Simultaneous	1	2412	13.11	15.00	1.545	98.26	1.018	0.1	0.212	0.333
	WLAN2.4GHz	802.11b 1Mbps	Front	11mm	Ant 6		Full Power	11	2462	21.65	23.00	1.365	98.26	1.018	0.03	0.260	0.361
	WLAN2.4GHz	802.11b 1Mbps	Back	20mm	Ant 6		Full Power	11	2462	21.65	23.00	1.365	98.26	1.018	0.01	0.111	0.154
	Bluetooth	1Mbps	Front	5mm	Ant 6		Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.05	0.067	0.091
95	Bluetooth	1Mbps	Back	5mm	Ant 6		Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.06	0.129	0.175
	Bluetooth	1Mbps	Back	5mm	Ant 6		Full Power	39	2441	13.37	15.00	1.456	76.79	1.085	0.03	0.102	0.161
	Bluetooth	1Mbps	Back	5mm	Ant 6		Full Power	78	2480	13.40	15.00	1.446	76.79	1.085	0.01	0.111	0.174
	Bluetooth	1Mbps	Front	11mm	Ant 6		Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.01	0.001	0.001
	Bluetooth	1Mbps	Back	20mm	Ant 6		Full Power	0	2402	14.04	15.00	1.248	76.79	1.085	0.01	0.001	0.001
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7		Sensor on	58	5290	15.63	17.50	1.538	100	1.000	0.1	0.223	0.343
96	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Sensor on	58	5290	15.63	17.50	1.538	100	1.000	-0.01	0.511	0.786
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Simultaneous	58	5290	10.88	12.00	1.294	100	1.000	-0.08	0.240	0.311
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	11mm	Ant 7		Full Power	54	5270	19.65	20.00	1.085	100	1.000	0.05	0.211	0.229
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	20mm	Ant 7		Full Power	54	5270	19.65	20.00	1.085	100	1.000	0.09	0.230	0.250
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7		Sensor on	106	5530	15.67	17.50	1.524	100	1.000	0.14	0.351	0.535
97	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Sensor on	106	5530	15.67	17.50	1.524	100	1.000	-0.03	0.732	1.116
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Sensor on	122	5610	15.61	17.50	1.545	100	1.000	0.17	0.717	1.108
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Sensor on	138	5690	15.63	17.50	1.538	100	1.000	-0.05	0.627	0.964
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Simultaneous	106	5530	11.06	12.00	1.242	100	1.000	0.14	0.265	0.329
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	11mm	Ant 7		Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	0.05	0.221	0.256
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	20mm	Ant 7		Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	-0.06	0.230	0.267
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 7		Sensor on	155	5775	15.74	17.50	1.500	100	1.000	0.1	0.364	0.546
98	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Sensor on	155	5775	15.74	17.50	1.500	100	1.000	0.04	0.685	1.027
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 7		Simultaneous	155	5775	10.67	11.50	1.211	100	1.000	-0.17	0.260	0.315
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	11mm	Ant 7		Full Power	151	5755	18.56	19.00	1.107	94.71	1.056	-0.05	0.228	0.266
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	20mm	Ant 7		Full Power	151	5755	18.56	19.00	1.107	94.71	1.056	0.01	0.244	0.285



16.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	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)
750MHz																				
99	LTE Band 12	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	23095	707.5	22.99	24.00	1.262	-	-	-0.17	1.350	1.703
	LTE Band 12	10M	QPSK	25	0	-	Back	0mm	Ant 0	ECI 6	23095	707.5	21.92	23.00	1.282	-	-	0.04	1.080	1.385
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	ECI 6	23095	707.5	22.99	24.00	1.262	-	-	0.05	1.590	2.006
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	ECI 6	23095	707.5	21.92	23.00	1.282	-	-	-0.08	1.280	1.641
	LTE Band 12	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 0	ECI 6	23095	707.5	21.88	23.00	1.294	-	-	0.05	1.280	1.657
	LTE Band 12	10M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	23095	707.5	23.21	24.00	1.199	-	-	-0.11	1.030	1.235
	LTE Band 12	10M	QPSK	25	0	-	Back	0mm	Ant 4	ECI 6	23095	707.5	22.22	23.00	1.197	-	-	-0.1	0.819	0.980
100	LTE Band 12	10M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 6	23095	707.5	22.21	23.00	1.199	-	-	0.01	0.819	0.982
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	23230	782	22.92	24.00	1.282	-	-	0.17	1.070	1.372
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 0	ECI 6	23230	782	22.01	23.00	1.256	-	-	0.18	0.864	1.085
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	ECI 6	23230	782	22.92	24.00	1.282	-	-	0.09	1.250	1.603
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	ECI 6	23230	782	22.01	23.00	1.256	-	-	-0.04	1.000	1.256
	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	23230	782	23.11	24.00	1.227	-	-	0.07	0.908	1.115
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 4	ECI 6	23230	782	22.27	23.00	1.183	-	-	-0.16	0.856	1.013
101	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	ECI 6	23330	793	23.03	24.00	1.250	-	-	0.07	1.500	1.875
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 0	ECI 6	23330	793	21.98	23.00	1.265	-	-	0.01	1.190	1.505
	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	23330	793	23.26	24.00	1.186	-	-	-0.11	1.060	1.257
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 4	ECI 6	23330	793	22.25	23.00	1.189	-	-	-0.01	0.856	1.017
835MHz																				
102	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	ECI 6	189	836.4	29.09	30.50	1.384	-	-	-0.06	1.360	1.882
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	ECI 6	128	824.2	29.16	30.50	1.361	-	-	0.02	1.550	2.110
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 0	ECI 6	251	848.8	29.04	30.50	1.400	-	-	-0.16	1.120	1.568
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	189	836.4	29.09	30.50	1.384	-	-	0.05	1.410	1.951
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	128	824.2	29.16	30.50	1.361	-	-	0.06	1.880	2.560
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 0	ECI 6	251	848.8	29.04	30.50	1.400	-	-	-0.03	1.290	1.805
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	0mm	Ant 0	ECI 6	189	836.4	29.09	30.50	1.384	-	-	0.17	0.898	1.242
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	0mm	Ant 0	ECI 6	128	824.2	29.16	30.50	1.361	-	-	-0.15	0.862	1.174
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	ECI 6	189	836.4	29.09	30.50	1.384	-	-	0.05	1.410	1.951
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	ECI 6	128	824.2	29.16	30.50	1.361	-	-	-0.06	1.810	2.464
103	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 0	ECI 6	251	848.8	29.04	30.50	1.400	-	-	-0.13	1.450	2.029
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 0	ECI 6	4182	836.4	23.22	24.00	1.197	-	-	0.04	1.500	1.795
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 0	ECI 6	4182	836.4	23.22	24.00	1.197	-	-	0.13	1.450	1.735
104	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	23.06	24.00	1.242	-	-	-0.1	1.460	1.813
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 0	ECI 6	26865	831.5	22.03	23.00	1.250	-	-	0.05	1.160	1.450
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	0mm	Ant 0	ECI 6	26865	831.5	23.06	24.00	1.242	-	-	0.07	1.610	1.999
	LTE Band 5B	10M	QPSK	1	49	-	Bottom Side	0mm	Ant 0	ECI 6	20476+20575	831.6+841.5	22.71	24.00	1.346	-	-	-0.08	1.430	1.925
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	0mm	Ant 0	ECI 6	26865	831.5	22.03	23.00	1.250	-	-	0	1.260	1.575
	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	23.33	24.00	1.167	-	-	0.04	1.500	1.750
	LTE Band 5B	10M	QPSK	1	49	-	Back	0mm	Ant 4	ECI 6	20476+20575	831.6+841.5	23.05	24.00	1.245	-	-	0.1	1.390	1.730
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 4	ECI 6	26865	831.5	22.30	23.00	1.175	-	-	-0.05	1.210	1.422
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	1413	1732.6	21.68	22.80	1.294	-	-	-0.17	2.170	2.808
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	1312	1712.4	21.64	22.80	1.306	-	-	-0.03	2.050	2.678
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	1513	1752.6	21.61	22.80	1.315	-	-	0.14	2.210	2.907
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	1413	1732.6	21.68	22.80	1.294	-	-	0.11	2.030	2.627
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	1312	1712.4	21.64	22.80	1.306	-	-	-0.05	1.840	2.403
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	1513	1752.6	21.61	22.80	1.315	-	-	0.18	1.970	2.591
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	1413	1732.6	21.68	22.80	1.294	-	-	0.14	2.370	3.067
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	1312	1712.4	21.64	22.80	1.306	-	-	-0.17	2.210	2.887



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105	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	1513	1752.6	21.61	22.80	1.315	-	-	0.05	2.440	3.209
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	1413	1732.6	23.33	24.00	1.167	-	-	0.1	0.806	0.940
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	7mm	Ant 1	ECI 4	1413	1732.6	23.33	24.00	1.167	-	-	-0.18	0.719	0.839
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 1	ECI 4	1413	1732.6	23.33	24.00	1.167	-	-	0.1	0.647	0.755
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	132322	1745	22.26	23.00	1.186	-	-	0.08	2.260	2.680
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	132072	1720	22.06	23.00	1.242	-	-	0.01	2.170	2.694
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	132572	1770	22.24	23.00	1.191	-	-	0.03	2.240	2.668
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	132322	1745	22.16	23.00	1.213	-	-	-0.08	1.790	2.172
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	132072	1720	22.02	23.00	1.253	-	-	-0.08	1.800	2.256
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	132572	1770	22.09	23.00	1.233	-	-	0.1	1.710	2.109
	LTE Band 66	20M	QPSK	100	0	-	Front	0mm	Ant 1	ECI 6	132322	1745	22.15	23.00	1.216	-	-	-0.18	1.790	2.177
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	132322	1745	22.26	23.00	1.186	-	-	0.1	2.050	2.431
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	132072	1720	22.06	23.00	1.242	-	-	0.12	1.990	2.471
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	132572	1770	22.24	23.00	1.191	-	-	0.08	2.010	2.394
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	132322	1745	22.16	23.00	1.213	-	-	-0.17	1.640	1.990
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	132072	1720	22.02	23.00	1.253	-	-	-0.03	1.640	2.055
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	132572	1770	22.09	23.00	1.233	-	-	0.14	1.580	1.948
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 6	132322	1745	22.15	23.00	1.216	-	-	0.11	1.610	1.958
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	132322	1745	22.26	23.00	1.186	-	-	-0.05	2.490	2.953
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	132072	1720	22.06	23.00	1.242	-	-	0.18	2.340	2.905
106	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	132572	1770	22.24	23.00	1.191	-	-	0.02	2.510	2.990
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	132322	1745	22.16	23.00	1.213	-	-	0.14	1.980	2.403
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	132072	1720	22.02	23.00	1.253	-	-	-0.17	1.980	2.481
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	132572	1770	22.09	23.00	1.233	-	-	0.17	1.850	2.281
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	132322	1745	22.15	23.00	1.216	-	-	-0.05	2.010	2.445
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 4	132322	1745	23.29	24.00	1.178	-	-	0.03	0.463	0.545
	LTE Band 66	20M	QPSK	1	0	-	Back	7mm	Ant 1	ECI 4	132322	1745	23.29	24.00	1.178	-	-	-0.08	0.761	0.896
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 1	ECI 4	132322	1745	23.29	24.00	1.178	-	-	-0.08	0.672	0.791
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132322	1745	15.48	16.70	1.324	-	-	0.04	1.850	2.450
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132072	1720	15.41	16.70	1.346	-	-	-0.03	1.570	2.113
	LTE Band 66	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132572	1770	15.35	16.70	1.365	-	-	0.08	1.850	2.524
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	132322	1745	15.42	16.70	1.343	-	-	-0.07	1.210	1.625
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	132072	1720	15.37	16.70	1.358	-	-	0.05	1.220	1.657
	LTE Band 66	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	132572	1770	15.32	16.70	1.374	-	-	-0.11	1.240	1.704
	LTE Band 66	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 6	132322	1745	15.34	16.70	1.368	-	-	-0.12	1.490	2.038
	LTE Band 66 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	132572	1770	19.53	20.50	1.250	-	-	0.03	1.950	2.438
	LTE Band 4 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	20175	1732.5	19.51	20.50	1.256	-	-	-0.16	1.690	2.123
	LTE Band 66	20M	QPSK	1	0	-	Top Side	14mm	Ant 4	ECI 4	132322	1745	21.25	22.00	1.189	-	-	0.12	0.400	0.475
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	340500	1702.5	23.15	24.00	1.216	-	-	0.02	1.840	2.238
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	340500	1702.5	23.13	24.00	1.222	-	-	0.16	1.540	1.882
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	340500	1702.5	22.16	23.00	1.213	-	-	-0.03	1.310	1.590
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	340500	1702.5	23.15	24.00	1.216	-	-	0.07	1.860	2.262
107	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	340500	1702.5	23.13	24.00	1.222	-	-	0.14	2.070	2.529
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	340500	1702.5	22.16	23.00	1.213	-	-	0	1.570	1.905
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	340500	1702.5	20.73	21.50	1.194	-	-	0.05	1.520	1.815
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	340500	1702.5	20.57	21.50	1.239	-	-	0.02	1.560	1.933
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	340500	1702.5	20.00	21.00	1.259	-	-	-0.13	1.270	1.599
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	340500	1702.5	20.73	21.50	1.194	-	-	0.01	2.050	2.448
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	340500	1702.5	20.57	21.50	1.239	-	-	0.17	2.030	2.515
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	340500	1702.5	20.00	21.00	1.259	-	-	0.06	1.650	2.077
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	13mm	Ant 4	ECI 4	340500	1702.5	21.17	22.00	1.211	-	-	0.08	0.596	0.722
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	14mm	Ant 4	ECI 4	340500	1702.5	21.17	22.00	1.211	-	-	-0.17	0.366	0.443
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	349000	1745	23.19	24.00	1.205	-	-	-0.06	2.060	2.482
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	349000	1745	23.18	24.00	1.208	-	-	-0.14	2.250	2.718
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	349000	1745	22.16	23.00	1.213	-	-	-0.19	1.770	2.148



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	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	23.19	24.00	1.205	-	-	0.01	2.090	2.519
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	23.18	24.00	1.208	-	-	0.06	2.250	2.718
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	349000	1745	22.16	23.00	1.213	-	-	0.02	1.810	2.196
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	349000	1745	23.19	24.00	1.205	-	-	0.12	2.260	2.723
108	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	349000	1745	23.18	24.00	1.208	-	-	0.04	2.460	2.971
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	349000	1745	22.16	23.00	1.213	-	-	-0.16	1.980	2.403
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	349000	1745	23.20	24.00	1.202	-	-	-0.12	2.290	2.753
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	349000	1745	20.91	21.50	1.146	-	-	-0.08	1.390	1.592
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 4	ECI 6	349000	1745	20.79	21.50	1.178	-	-	-0.08	1.290	1.519
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	20.91	21.50	1.146	-	-	0.02	1.870	2.142
	FR1 n66 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	20.79	21.50	1.178	-	-	-0.18	1.710	2.014
	FR1 n66 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	20.54	21.50	1.247	-	-	0.1	1.430	1.784
	FR1 n66 Other Path	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	20.89	21.50	1.151	-	-	0.12	1.850	2.129
	FR1 n66 Main PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	349000	1745	18.68	19.50	1.208	-	-	0.06	1.210	1.461
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Back	13mm	Ant 4	ECI 4	349000	1745	23.49	24.00	1.125	-	-	-0.03	0.689	0.775
	FR1 n66 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	14mm	Ant 4	ECI 4	349000	1745	23.49	24.00	1.125	-	-	0.14	0.584	0.657
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	ECI 6	661	1880	25.09	26.50	1.384	-	-	-0.17	1.800	2.490
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	ECI 6	512	1850.2	25.09	26.50	1.384	-	-	-0.03	1.700	2.352
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	ECI 6	810	1909.8	25.05	26.50	1.396	-	-	0.14	1.840	2.569
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	ECI 6	661	1880	25.09	26.50	1.384	-	-	0.11	1.580	2.186
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	ECI 6	512	1850.2	25.09	26.50	1.384	-	-	-0.05	1.480	2.048
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	ECI 6	810	1909.8	25.05	26.50	1.396	-	-	0.18	1.650	2.304
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	ECI 6	661	1880	25.09	26.50	1.384	-	-	0.14	1.890	2.615
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	ECI 6	512	1850.2	25.09	26.50	1.384	-	-	-0.17	1.730	2.394
109	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	ECI 6	810	1909.8	25.05	26.50	1.396	-	-	0.04	1.910	2.667
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9400	1880	21.68	22.70	1.265	-	-	-0.08	2.350	2.972
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9262	1852.4	21.64	22.70	1.276	-	-	0.13	2.260	2.885
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	ECI 6	9538	1907.6	21.66	22.70	1.271	-	-	0.12	2.340	2.973
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	9400	1880	21.68	22.70	1.265	-	-	0.03	2.050	2.593
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	9262	1852.4	21.64	22.70	1.276	-	-	0.18	1.950	2.489
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	ECI 6	9538	1907.6	21.66	22.70	1.271	-	-	0.16	2.130	2.706
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	9400	1880	21.68	22.70	1.265	-	-	-0.1	2.420	3.061
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	9262	1852.4	21.64	22.70	1.276	-	-	0.07	2.240	2.859
110	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	ECI 6	9538	1907.6	21.66	22.70	1.271	-	-	0.14	2.490	3.164
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	ECI 4	9400	1880	23.15	24.00	1.216	-	-	0.11	0.849	1.033
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	7mm	Ant 1	ECI 4	9400	1880	23.15	24.00	1.216	-	-	-0.05	0.737	0.896
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	11mm	Ant 1	ECI 4	9400	1880	23.15	24.00	1.216	-	-	0.18	0.650	0.791
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	26340	1880	22.18	23.20	1.265	-	-	-0.12	2.370	2.997
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	26140	1860	22.10	23.20	1.288	-	-	0.03	2.260	2.911
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	26590	1905	22.15	23.20	1.274	-	-	-0.16	2.370	3.018
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	26340	1880	22.11	23.00	1.227	-	-	-0.02	1.840	2.258
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	26140	1860	22.10	23.00	1.230	-	-	0.15	1.870	2.301
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	26590	1905	22.10	23.00	1.230	-	-	-0.09	1.810	2.227
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 1	ECI 6	26340	1880	22.09	23.00	1.233	-	-	0.11	1.890	2.331
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	26340	1880	22.18	23.20	1.265	-	-	-0.05	2.000	2.529
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	26140	1860	22.10	23.20	1.288	-	-	-0.08	1.930	2.486
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	26590	1905	22.15	23.20	1.274	-	-	0.16	2.040	2.598
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	26340	1880	22.11	23.00	1.227	-	-	0.05	1.600	1.964
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 1	ECI 6	26340	1880	22.09	23.00	1.233	-	-	-0.15	1.640	2.022
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	26340	1880	22.18	23.20	1.265	-	-	0.02	2.460	3.111
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	26140	1860	22.10	23.20	1.288	-	-	0.07	2.310	2.976
111	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	26590	1905	22.15	23.20	1.274	-	-	0.03	2.520	3.209
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	26340	1880	22.11	23.00	1.227	-	-	0.16	1.910	2.344
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	26140	1860	22.10	23.00	1.230	-	-	0.13	1.950	2.399
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	26590	1905	22.10	23.00	1.230	-	-	-0.18	1.860	2.288



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	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	26340	1880	22.09	23.00	1.233	-	-	0.02	2.000	2.466
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 4	26340	1880	23.15	24.00	1.216	-	-	0.14	0.853	1.037
	LTE Band 25	20M	QPSK	1	0	-	Back	7mm	Ant 1	ECI 4	26340	1880	23.15	24.00	1.216	-	-	-0.17	0.727	0.884
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 1	ECI 4	26590	1905	23.03	24.00	1.250	-	-	0.17	0.642	0.803
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 4	ECI 6	26340	1880	16.24	17.60	1.368	-	-	0.13	0.922	1.261
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 4	ECI 6	26340	1880	16.17	17.60	1.390	-	-	-0.16	0.749	1.041
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	16.24	17.60	1.368	-	-	0.07	1.820	2.489
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26140	1860	16.10	17.60	1.413	-	-	-0.19	1.570	2.218
	LTE Band 25	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26590	1905	16.10	17.60	1.413	-	-	0.01	1.800	2.543
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	16.17	17.60	1.390	-	-	0.06	1.460	2.029
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	26140	1860	16.12	17.60	1.406	-	-	0.02	1.460	2.053
	LTE Band 25	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	26590	1905	16.10	17.60	1.413	-	-	0.12	1.260	1.780
	LTE Band 25	20M	QPSK	100	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	16.09	17.60	1.416	-	-	-0.16	1.430	2.025
	LTE Band 25 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	26340	1880	17.89	19.00	1.291	-	-	-0.12	1.530	1.976
	LTE Band 2 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	18900	1880	17.86	19.00	1.300	-	-	-0.02	1.510	1.963
	LTE Band 25	20M	QPSK	1	0	-	Back	13mm	Ant 4	ECI 4	26340	1880	21.23	22.00	1.194	-	-	0.01	0.792	0.946
	LTE Band 25	20M	QPSK	1	0	-	Top Side	14mm	Ant 4	ECI 4	26340	1880	21.23	22.00	1.194	-	-	0.1	0.733	0.875
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376500	1882.5	23.37	24.00	1.156	-	-	-0.15	1.950	2.254
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376500	1882.5	23.36	24.00	1.159	-	-	0.02	2.130	2.468
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376500	1882.5	22.33	23.00	1.167	-	-	0.03	1.630	1.902
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	376500	1882.5	23.37	24.00	1.156	-	-	-0.13	1.810	2.093
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	376500	1882.5	23.36	24.00	1.159	-	-	0.16	1.930	2.236
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	376500	1882.5	22.33	23.00	1.167	-	-	-0.15	1.380	1.610
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	376500	1882.5	23.37	24.00	1.156	-	-	-0.02	1.830	2.116
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	376500	1882.5	23.36	24.00	1.159	-	-	-0.09	2.040	2.364
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	376500	1882.5	22.33	23.00	1.167	-	-	0.14	1.660	1.937
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	376000	1880	23.21	24.00	1.199	-	-	0.1	1.930	2.315
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	18.68	19.80	1.294	-	-	0.11	1.880	2.433
112	FR1 n25 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	18.56	19.80	1.330	-	-	0.06	1.980	2.634
	FR1 n25 Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	18.37	19.80	1.390	-	-	-0.05	1.630	2.266
	FR1 n25 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	19.04	19.80	1.191	-	-	0.18	1.970	2.347
	FR1 n2 Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	19.40	19.80	1.096	-	-	0.14	1.950	2.138
	FR1 n2 Other Path	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376000	1880	19.43	19.80	1.089	-	-	-0.17	1.910	2.080
	FR1 n25 Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	0mm	Ant 4	ECI 6	376500	1882.5	17.27	18.50	1.327	-	-	0.01	1.690	2.243
	FR1 n25 Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	14mm	Ant 4	ECI 4	376500	1882.5	23.11	24.00	1.227	-	-	-0.17	0.412	0.506
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	27710	2310	23.20	24.00	1.202	-	-	0.14	1.620	1.948
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 1	ECI 6	27710	2310	22.20	23.00	1.202	-	-	0.11	1.280	1.539
	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	27710	2310	23.20	24.00	1.202	-	-	0.18	1.580	1.900
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 1	ECI 6	27710	2310	22.20	23.00	1.202	-	-	0.14	1.270	1.527
113	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	27710	2310	23.20	24.00	1.202	-	-	0.01	2.540	3.054
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 1	ECI 6	27710	2310	22.20	23.00	1.202	-	-	0.17	2.050	2.465
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	27710	2310	22.18	23.00	1.208	-	-	-0.05	2.070	2.500
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	462000	2310	22.47	23.50	1.268	-	-	-0.08	1.350	1.711
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	0mm	Ant 1	ECI 6	462000	2310	22.40	23.50	1.288	-	-	-0.04	1.330	1.713
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	462000	2310	22.47	23.50	1.268	-	-	0.17	1.540	1.952
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 1	ECI 6	462000	2310	22.40	23.50	1.288	-	-	0.18	1.480	1.907
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	462000	2310	22.47	23.50	1.268	-	-	-0.08	2.260	2.865
114	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	462000	2310	22.40	23.50	1.288	-	-	-0.05	2.320	2.989
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	462000	2310	22.37	23.00	1.156	-	-	-0.13	1.880	2.173
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	ECI 4	462000	2310	23.37	24.00	1.156	-	-	0.04	0.403	0.466
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	7mm	Ant 1	ECI 4	462000	2310	23.37	24.00	1.156	-	-	-0.01	0.278	0.321
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	11mm	Ant 1	ECI 4	462000	2310	23.37	24.00	1.156	-	-	-0.08	0.254	0.294
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	19.53	20.90	1.371	-	-	0.03	1.280	1.755



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	LTE Band 7	20M	QPSK	50	0	-	Front	0mm	Ant 1	ECI 6	21100	2535	19.47	20.90	1.390	-	-	-0.1	1.000	1.390
	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	19.53	20.90	1.371	-	-	0.01	1.430	1.960
	LTE Band 7	20M	QPSK	50	0	-	Back	0mm	Ant 1	ECI 6	21100	2535	19.47	20.90	1.390	-	-	0.07	1.140	1.585
115	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	19.53	20.90	1.371	-	-	0.01	2.330	3.194
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	20850	2510	19.45	20.90	1.396	-	-	-0.15	2.220	3.100
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	21350	2560	19.49	20.90	1.384	-	-	0.11	2.220	3.072
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	19.47	20.90	1.390	-	-	-0.08	1.830	2.544
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	20850	2510	19.39	20.90	1.416	-	-	-0.17	1.850	2.619
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	21350	2560	19.43	20.90	1.403	-	-	-0.08	1.780	2.497
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	21100	2535	19.42	20.90	1.406	-	-	-0.04	1.790	2.517
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	ECI 4	21100	2535	23.19	24.00	1.205	-	-	0.05	0.718	0.865
	LTE Band 7	20M	QPSK	1	0	-	Back	7mm	Ant 1	ECI 4	21100	2535	23.19	24.00	1.205	-	-	0.06	0.625	0.753
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 1	ECI 4	21100	2535	23.19	24.00	1.205	-	-	-0.09	0.548	0.660
	LTE Band 7 Other PA	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	21100	2535	23.37	24.00	1.156	-	-	-0.09	1.330	1.538
	LTE Band 7 Other PA	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	21100	2535	22.35	23.00	1.161	-	-	-0.05	1.090	1.266
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	22.60	23.20	1.148	62.9	1.006	0.06	2.590	2.992
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 1	ECI 6	40620+ 40818	2593+ 2612.8	22.52	23.20	1.169	62.9	1.006	-0.01	2.410	2.835
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	39750	2506	22.57	23.20	1.156	62.9	1.006	-0.04	2.020	2.349
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40185	2549.5	22.35	23.20	1.216	62.9	1.006	-0.01	2.330	2.851
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	41055	2636.5	22.52	23.20	1.169	62.9	1.006	0	2.260	2.659
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	41490	2680	22.35	23.20	1.216	62.9	1.006	-0.11	1.850	2.263
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	21.94	23.00	1.276	62.9	1.006	-0.06	2.000	2.568
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	39750	2506	21.72	23.00	1.343	62.9	1.006	0.03	1.630	2.202
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	40185	2549.5	21.72	23.00	1.343	62.9	1.006	-0.13	1.930	2.607
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	41055	2636.5	21.91	23.00	1.285	62.9	1.006	0.16	1.840	2.379
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	ECI 6	41490	2680	21.71	23.00	1.346	62.9	1.006	-0.15	1.500	2.031
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	21.90	23.00	1.288	62.9	1.006	-0.02	1.960	2.540
116	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	23.83	24.80	1.250	42.9	1.009	0.09	2.540	3.204
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Bottom Side	0mm	Ant 1	ECI 6	40620+ 40818	2593+ 2612.8	23.79	24.80	1.262	42.9	1.009	0.03	2.320	2.954
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 1	ECI 4	40620	2593	23.15	24.00	1.216	62.9	1.006	0.12	0.317	0.388
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Bottom Side	11mm	Ant 1	ECI 4	40620	2593	26.14	27.00	1.219	42.9	1.009	0.03	0.428	0.526
	LTE Band 41	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	40620	2593	19.15	20.00	1.216	62.9	1.006	0.06	0.929	1.137
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	0mm	Ant 4	ECI 6	40620+ 40818	2593+ 2612.8	19.08	20.00	1.236	62.9	1.006	-0.11	0.901	1.120
	LTE Band 41	20M	QPSK	50	0	-	Top Side	0mm	Ant 4	ECI 6	40620	2593	17.69	19.00	1.352	62.9	1.006	-0.08	0.731	0.994
	LTE Band 41 HPUE	20M	QPSK	1	0	-	Top Side	0mm	Ant 4	ECI 6	40620	2593	22.05	23.00	1.245	42.9	1.009	-0.03	1.170	1.469
	LTE Band 41C HPUE	20M	QPSK	1	99	-	Top Side	0mm	Ant 4	ECI 6	40620+ 40818	2593+ 2612.8	22.01	23.00	1.256	42.9	1.009	0.04	1.050	1.331
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	20.95	22.00	1.274	-	-	0	2.110	2.687
117	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	20.92	22.00	1.282	-	-	0.03	2.500	3.206
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Bottom Side	0mm	Ant 1	ECI 6	507000	2535	20.62	22.00	1.374	-	-	0.01	1.950	2.679
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	11mm	Ant 1	ECI 4	507000	2535	20.95	24.00	2.018	-	-	-0.08	0.458	0.924
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 0	ECI 6	518598	2592.99	23.86	25.00	1.300	-	-	-0.13	2.420	3.146
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 0	ECI 6	518598	2592.99	23.85	25.00	1.303	-	-	0.08	2.440	3.180
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 0	ECI 6	518598	2592.99	23.64	25.00	1.368	-	-	-0.01	1.830	2.503
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	13mm	Ant 0	ECI 4	518598	2592.99	23.86	26.00	1.637	-	-	0.18	0.154	0.252
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 1	ECI 6	518598	2592.99	21.00	22.00	1.259	-	-	-0.16	1.430	1.800
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 1	ECI 6	518598	2592.99	20.89	22.00	1.291	-	-	-0.15	1.360	1.756
118	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	21.00	22.00	1.259	-	-	0.02	2.530	3.185
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	20.89	22.00	1.291	-	-	0.01	2.440	3.151
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	0mm	Ant 1	ECI 6	518598	2592.99	20.68	22.00	1.355	-	-	0.06	2.030	2.751
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	7mm	Ant 1	ECI 4	518598	2592.99	26.41	27.00	1.146	-	-	0.06	0.796	0.912
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	11mm	Ant 1	ECI 4	518598	2592.99	26.41	27.00	1.146	-	-	0.11	0.865	0.991
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 4	ECI 6	518598	2592.99	19.77	20.90	1.297	-	-	-0.05	1.590	2.063
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 4	ECI 6	518598	2592.99	19.70	20.90	1.318	-	-	0.18	1.230	1.621



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	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 4	ECI 6	518598	2592.99	19.47	20.90	1.390	-	-	0.14	1.080	1.501
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	19.77	20.90	1.297	-	-	-0.04	1.900	2.465
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	19.70	20.90	1.318	-	-	-0.17	1.510	1.991
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Top Side	0mm	Ant 4	ECI 6	518598	2592.99	19.47	20.90	1.390	-	-	0.17	1.250	1.737
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	13mm	Ant 4	ECI 4	518598	2592.99	22.20	23.00	1.202	-	-	-0.1	0.278	0.334
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	14mm	Ant 4	ECI 4	518598	2592.99	22.20	23.00	1.202	-	-	0.07	0.454	0.546
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 10	ECI 4	518598	2592.99	20.05	21.30	1.334	-	-	-0.17	1.840	2.454
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 10	ECI 4	518598	2592.99	20.04	21.30	1.337	-	-	-0.03	1.850	2.473
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 10	ECI 4	518598	2592.99	20.02	21.30	1.343	-	-	0.09	1.650	2.216
3500MHz																				
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECI 6	55830	3609	18.62	19.80	1.312	62.9	1.006	-0.18	1.830	2.416
119	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECI 6	55340	3560	18.58	19.80	1.324	62.9	1.006	-0.07	1.890	2.518
	LTE Band 48C	20M	QPSK	1	99	-	Back	0mm	Ant 3	ECI 6	55340+ 55538	3560+ 3579.8	14.51	15.80	1.346	62.9	1.006	0.08	1.060	1.435
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECI 6	56150	3641	18.61	19.80	1.315	62.9	1.006	0.03	1.760	2.329
	LTE Band 48	20M	QPSK	1	0	-	Back	0mm	Ant 3	ECI 6	56640	3690	18.25	19.80	1.429	62.9	1.006	-0.15	1.610	2.314
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECI 6	55830	3609	18.55	19.80	1.334	62.9	1.006	-0.15	1.450	1.945
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECI 6	55340	3560	18.51	19.80	1.346	62.9	1.006	0.11	1.490	2.017
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECI 6	56150	3641	18.54	19.80	1.337	62.9	1.006	-0.08	1.400	1.882
	LTE Band 48	20M	QPSK	50	0	-	Back	0mm	Ant 3	ECI 6	56640	3690	18.17	19.80	1.455	62.9	1.006	-0.17	1.290	1.889
	LTE Band 48	20M	QPSK	100	0	-	Back	0mm	Ant 3	ECI 6	55830	3609	18.51	19.80	1.346	62.9	1.006	-0.08	1.440	1.950
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECI 6	55830	3609	18.62	19.80	1.312	62.9	1.006	-0.04	1.510	1.993
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECI 6	55340	3560	18.58	19.80	1.324	62.9	1.006	-0.08	1.760	2.345
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECI 6	56150	3641	18.61	19.80	1.315	62.9	1.006	0.17	1.320	1.747
	LTE Band 48	20M	QPSK	1	0	-	Left Side	0mm	Ant 3	ECI 6	56640	3690	18.25	19.80	1.429	62.9	1.006	0.18	1.100	1.581
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	ECI 6	55830	3609	18.55	19.80	1.334	62.9	1.006	-0.04	1.210	1.623
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	ECI 6	55340	3560	18.51	19.80	1.346	62.9	1.006	-0.08	1.400	1.896
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	ECI 6	56150	3641	18.54	19.80	1.337	62.9	1.006	-0.13	1.060	1.425
	LTE Band 48	20M	QPSK	50	0	-	Left Side	0mm	Ant 3	ECI 6	56640	3690	18.17	19.80	1.455	62.9	1.006	-0.13	0.890	1.303
	LTE Band 48	20M	QPSK	100	0	-	Left Side	0mm	Ant 3	ECI 6	55830	3609	18.51	19.80	1.346	62.9	1.006	0.06	1.210	1.638
	LTE Band 48	20M	QPSK	1	0	-	Back	11mm	Ant 3	ECI 4	55830	3609	23.05	24.00	1.245	62.9	1.006	0.01	0.611	0.765
	LTE Band 48	20M	QPSK	1	0	-	Left Side	12mm	Ant 3	ECI 4	55830	3609	23.05	24.00	1.245	62.9	1.006	-0.15	0.366	0.458
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	641666	3624.99	17.04	18.00	1.247	-	-	0.09	1.980	2.470
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	641666	3624.99	16.88	18.00	1.294	-	-	0.05	1.860	2.407
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	641666	3624.99	16.76	18.00	1.330	-	-	0.05	1.420	1.889
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	11mm	Ant 3	ECI 4	641666	3624.99	22.94	24.00	1.276	-	-	0.19	0.945	1.206
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 4	641666	3624.99	20.82	22.00	1.312	-	-	-0.19	0.768	1.008
	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 4	641666	3624.99	20.80	22.00	1.318	-	-	0.01	0.983	1.296
	FR1 n48	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	641666	3624.99	20.82	22.00	1.312	-	-	-0.16	1.740	2.283
120	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	641666	3624.99	20.80	22.00	1.318	-	-	0.06	2.390	3.151
	FR1 n48	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	641666	3624.99	20.48	22.00	1.419	-	-	-0.12	1.850	2.625
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	656000	3840	16.36	17.50	1.300	-	-	-0.05	0.590	0.767
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	656000	3840	16.31	17.50	1.315	-	-	0.14	0.568	0.747
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	633334	3500.01	16.29	17.50	1.321	-	-	-0.15	1.780	2.352
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	633334	3500.01	16.26	17.50	1.330	-	-	0.19	1.360	1.809
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	0mm	Ant 3	ECI 6	633334	3500.01	15.94	17.50	1.432	-	-	0.07	1.350	1.933
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	0mm	Ant 3	ECI 6	633334	3500.01	16.29	17.50	1.321	-	-	-0.18	1.680	2.220
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	0mm	Ant 3	ECI 6	633334	3500.01	16.26	17.50	1.330	-	-	0.04	1.850	2.461
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Left Side	0mm	Ant 3	ECI 6	633334	3500.01	15.94	17.50	1.432	-	-	0.03	1.640	2.349
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	11mm	Ant 3	ECI 4	633334	3500.01	24.62	24.62	1.000	-	-	-0.17	1.650	1.650
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	12mm	Ant 3	ECI 4	633334	3500.01	25.50	25.50	1.000	-	-	-0.08	1.780	1.780
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	ECI 4	656000	3840	19.58	21.00	1.387	-	-	-0.09	0.615	0.853
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	ECI 4	656000	3840	19.47	21.00	1.422	-	-	-0.03	0.427	0.607
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 5	ECI 4	633334	3500.01	20.11	21.00	1.227	-	-	-0.07	0.927	1.138
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 5	ECI 4	633334	3500.01	20.06	21.00	1.242	-	-	0.11	0.843	1.047
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 7	ECI 6	633334	3500.01	20.53	21.00	1.114	-	-	-0.09	0.673	0.750
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 7	ECI 6	633334	3500.01	20.50	21.00	1.122	-	-	-0.17	0.974	1.093



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	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 7	ECI 6	633334	3500.01	20.53	21.00	1.114	-	-	-0.1	0.297	0.331
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 7	ECI 6	633334	3500.01	20.50	21.00	1.122	-	-	0.03	1.250	1.403
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 4	656000	3840	19.19	20.20	1.262	-	-	-0.11	0.968	1.221
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	0mm	Ant 9	ECI 4	656000	3840	19.17	20.20	1.268	-	-	-0.16	1.000	1.268
	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	656000	3840	19.19	20.20	1.262	-	-	-0.06	2.380	3.003
121	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	656000	3840	19.17	20.20	1.268	-	-	0.06	2.500	3.169
	FR1 n77_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	656000	3840	18.81	20.20	1.377	-	-	-0.14	2.150	2.961

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	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)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 6	Standalone	11	2462	20.61	22.00	1.377	98.26	1.018	-0.17	0.744	1.043
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	11	2462	20.61	22.00	1.377	98.26	1.018	0.04	2.270	3.183
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	1	2412	20.22	22.00	1.507	98.26	1.018	-0.01	2.160	3.313
122	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	20.58	22.00	1.387	98.26	1.018	0.09	2.530	3.572
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	20.68	22.00	1.355	90.83	1.101	0.08	2.230	3.327
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 6	Standalone	1	2412	19.24	21.00	1.500	90.83	1.101	0.01	1.670	2.757
	WLAN2.4GHz	802.11g 6Mbps	Top Side	0mm	Ant 6	Standalone	11	2462	19.40	21.00	1.445	90.83	1.101	0.03	1.710	2.721
	WLAN2.4GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 6	Standalone	6	2437	20.58	22.00	1.387	90.24	1.108	0.05	1.910	2.935
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 6	Simultaneous	6	2437	15.54	17.00	1.400	98.26	1.018	-0.08	0.663	0.945
	WLAN2.4GHz	802.11b 1Mbps	Back	9mm	Ant 6	Full Power	11	2462	21.65	23.00	1.365	98.26	1.018	0.08	0.326	0.453
	WLAN2.4GHz	802.11b 1Mbps	Top Side	9mm	Ant 6	Full Power	11	2462	21.65	23.00	1.365	98.26	1.018	0.01	0.306	0.425
5000MHz																
	WLAN5.2GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7	Full Power	46	5230	19.73	20.00	1.065	94.71	1.056	-0.03	0.772	0.868
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7	Full Power	46	5230	19.73	20.00	1.065	94.71	1.056	-0.03	0.751	0.845
123	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7	Full Power	46	5230	19.73	20.00	1.065	94.71	1.056	0.05	1.510	1.698
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7	Full Power	38	5190	18.46	20.00	1.426	94.71	1.056	0.01	1.090	1.641
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 7	Full Power	46	5230	19.73	20.00	1.065	94.71	1.056	0.14	0.521	0.586
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7	Simultaneous	42	5210	16.32	18.00	1.472	100	1.000	0.11	0.656	0.966
	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	11mm	Ant 7	Full Power	46	5230	19.73	20.00	1.065	94.71	1.056	0.04	0.361	0.406
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7	Full Power	54	5270	19.65	20.00	1.085	94.71	1.056	0.03	0.680	0.779
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7	Full Power	54	5270	19.65	20.00	1.085	94.71	1.056	-0.08	0.662	0.758
124	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7	Full Power	54	5270	19.65	20.00	1.085	94.71	1.056	0.08	1.330	1.524
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 7	Full Power	54	5270	19.65	20.00	1.085	94.71	1.056	0.1	0.459	0.526
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7	Simultaneous	58	5290	16.33	18.00	1.469	100	1.000	-0.08	0.656	0.964
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	11mm	Ant 7	Full Power	54	5270	19.65	20.00	1.085	94.71	1.056	0.05	0.363	0.416
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7	Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	-0.18	0.478	0.555
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7	Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	0.1	0.504	0.585
125	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7	Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	0.03	1.320	1.532
	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 7	Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	0.08	0.180	0.209
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7	Simultaneous	138	5690	14.88	16.50	1.452	100	1.000	0.14	0.627	0.910
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	11mm	Ant 7	Full Power	142	5710	18.09	18.50	1.099	94.71	1.056	-0.06	0.319	0.370
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	0mm	Ant 7	Full Power	151	5755	18.56	19.00	1.107	94.71	1.056	0.01	0.753	0.880
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 7	Full Power	151	5755	18.56	19.00	1.107	94.71	1.056	0.1	0.775	0.906
126	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 7	Full Power	151	5755	18.56	19.00	1.107	94.71	1.056	0.03	1.580	1.846
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 7	Simultaneous	155	5775	13.81	15.50	1.476	100	1.000	-0.17	0.647	0.955
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	11mm	Ant 7	Full Power	151	5755	18.56	19.00	1.107	94.71	1.056	0.05	0.328	0.383



16.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	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)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Receiver on	6	2437	18.43	20.00	1.435	98.26	1.018	0.08	0.942	1	1.377
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Receiver on	6	2437	18.43	20.00	1.435	98.26	1.018	-0.04	0.913	1.032	1.334
1st	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	0.03	1.030	1	1.288
2nd	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	ECI 7	23330	793	23.03	24.00	1.250	-	-	0.01	0.988	1.043	1.235
1st	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	0.02	1.080	1	1.272
2nd	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	ECI 7	26865	831.5	22.49	23.20	1.178	-	-	-0.09	0.931	1.160	1.096
1st	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	0.08	1.050	1	1.283
2nd	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 1	ECI 7	349000	1745	20.23	21.10	1.222	-	-	-0.08	0.941	1.116	1.150
1st	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	0.03	1.030	1	1.288
2nd	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 1	ECI 7	27710	2310	20.73	21.70	1.250	-	-	-0.09	0.977	1.054	1.222
1st	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	0.15	1.000	1	1.276
2nd	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	ECI 7	641666	3624.99	17.84	18.90	1.276	-	-	0.09	0.931	1.074	1.188
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 3	9538	1907.6	20.16	21.00	1.213	-	-	0.02	1.060	1	1.286
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	ECI 3	9538	1907.6	20.16	21.00	1.213	-	-	0.04	0.973	1.089	1.181
1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	21100	2535	20.73	21.80	1.279	-	-	0.09	1.000	1	1.279
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	ECI 3	21100	2535	20.73	21.80	1.279	-	-	-0.01	0.931	1.074	1.191
1st	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	ECI 4	633334	3500.01	24.66	25.50	1.213	-	-	-0.08	1.070	1	1.298
2nd	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	20mm	Ant 3	ECI 4	633334	3500.01	24.66	25.50	1.213	-	-	0.1	0.933	1.147	1.132
1st	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 3	656000	3840	19.17	20.20	1.268	-	-	-0.09	0.990	1	1.255
2nd	FR1 n77_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	ECI 3	656000	3840	19.17	20.20	1.268	-	-	0.11	0.904	1.095	1.146

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	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)	Ratio	Reported 10g SAR (W/kg)
1st	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	132572	1770	22.24	23.00	1.191	-	-	0.02	2.510	1	2.990
2nd	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	132572	1770	22.24	23.00	1.191	-	-	0.08	2.460	1.020	2.930
1st	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	26590	1905	22.15	23.20	1.274	-	-	0.03	2.520	1	3.209
2nd	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	26590	1905	22.15	23.20	1.274	-	-	0.001	2.430	1.037	3.095
1st	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	27710	2310	23.20	24.00	1.202	-	-	0.01	2.540	1	3.054
2nd	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	27710	2310	23.20	24.00	1.202	-	-	0.07	2.450	1.037	2.946
1st	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	22.60	23.20	1.148	62.9	1.006	0.06	2.590	1	2.992
2nd	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	ECI 6	40620	2593	22.60	23.20	1.148	62.9	1.006	0.03	2.470	1.049	2.853
1st	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	641666	3624.99	20.80	22.00	1.318	-	-	0.06	2.390	1	3.151
2nd	FR1 n48	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	641666	3624.99	20.80	22.00	1.318	-	-	-0.03	2.250	1.062	2.966
1st	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	656000	3840	19.17	20.20	1.268	-	-	0.06	2.500	1	3.169
2nd	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	0mm	Ant 9	ECI 4	656000	3840	19.17	20.20	1.268	-	-	0.04	2.390	1.046	3.030
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	20.58	22.00	1.387	98.26	1.018	0.09	2.530	1	3.572
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Top Side	0mm	Ant 6	Standalone	6	2437	20.58	22.00	1.387	98.26	1.018	0.03	2.410	1.050	3.402

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- 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.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured* SAR.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16.6 TDD LTE Linearity Data Analysis

General Note:

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 for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE B41-Linearity Data for Head Ant 1_ECI2			LTE B41-Linearity Data for Head Ant 4_ECI2		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	19.10	20.70
Reported 1g SAR (W/kg)	0.208	0.274	Reported 1g SAR (W/kg)	0.716	0.766
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	51.45	50.87
Linearity SAR (W/kg)	0.284		Linearity SAR (W/kg)	0.708	
% deviation from expected linearity		-3.48%	% deviation from expected linearity		8.20%
LTE B41-Linearity Data for Body-worn Ant 1_ECI3			LTE B41-Linearity Data for Body-worn Ant 4_ECI3		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.20	24.80	Maximum Tune up Power (dBm)	19.10	20.70
Reported 1g SAR (W/kg)	1.095	1.186	Reported 1g SAR (W/kg)	0.879	0.891
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	132.25	130.76	Frame Averaged (mW)	51.45	50.87
Linearity SAR (W/kg)	1.083		Linearity SAR (W/kg)	0.869	
% deviation from expected linearity		9.54%	% deviation from expected linearity		2.52%
LTE B41-Linearity Data for Hotspot Ant 1_ECI7			LTE B41-Linearity Data for Hotspot Ant 4_ECI7		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	21.90	23.50	Maximum Tune up Power (dBm)	13.20	14.80
Reported 1g SAR (W/kg)	1.158	1.250	Reported 1g SAR (W/kg)	0.610	0.628
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	98.04	96.94	Frame Averaged (mW)	13.23	13.08
Linearity SAR (W/kg)	1.145		Linearity SAR (W/kg)	0.603	
% deviation from expected linearity		9.17%	% deviation from expected linearity		4.12%
LTE B41-Linearity Data for Extremity Ant 1_ECI6			LTE B41-Linearity Data for Extremity Ant 4_ECI6		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.20	24.80	Maximum Tune up Power (dBm)	20.00	23.00
Reported 10g SAR (W/kg)	2.992	3.204	Reported 10g SAR (W/kg)	1.140	1.469
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	132.25	130.76	Frame Averaged (mW)	63.30	86.39
Linearity SAR (W/kg)	2.958		Linearity SAR (W/kg)	1.556	
% deviation from expected linearity		8.30%	% deviation from expected linearity		-5.59%

LTE B41-Linearity Data for Head Ant 0_EC12			LTE B41-Linearity Data for Head Ant 10_EC12		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.100	0.137	Reported 1g SAR (W/kg)	0.038	0.057
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38	Frame Averaged (mW)	79.69	108.76
Linearity SAR (W/kg)	0.136		Linearity SAR (W/kg)	0.052	
% deviation from expected linearity		0.38%	% deviation from expected linearity		9.90%
LTE B41-Linearity Data for Body-worn Ant 0_EC13			LTE B41-Linearity Data for Body-worn Ant 10_EC13		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	19.90	21.50
Reported 1g SAR (W/kg)	0.885	1.194	Reported 1g SAR (W/kg)	0.899	0.889
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38	Frame Averaged (mW)	61.86	61.16
Linearity SAR (W/kg)	1.208		Linearity SAR (W/kg)	0.889	
% deviation from expected linearity		-1.15%	% deviation from expected linearity		0.01%
LTE B41-Linearity Data for Hotspot Ant 0_EC17			LTE B41-Linearity Data for Hotspot Ant 10_EC17		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00	Maximum Tune up Power (dBm)	18.50	20.10
Reported 1g SAR (W/kg)	0.885	1.194	Reported 1g SAR (W/kg)	0.594	0.587
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38	Frame Averaged (mW)	44.81	44.31
Linearity SAR (W/kg)	1.208		Linearity SAR (W/kg)	0.587	
% deviation from expected linearity		-1.15%	% deviation from expected linearity		-0.05%

<Sensor off>

LTE B41-Linearity Data for Body-worn Ant 1_EC14			LTE B41-Linearity Data for Body-worn Ant 4_EC14		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	20.00	23.00
Reported 1g SAR (W/kg)	0.307	0.445	Reported 1g SAR (W/kg)	0.138	0.196
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	63.30	86.39
Linearity SAR (W/kg)	0.419		Linearity SAR (W/kg)	0.188	
% deviation from expected linearity		6.20%	% deviation from expected linearity		4.06%
LTE B41-Linearity Data for Extremity Ant 1_EC14			LTE B41-Linearity Data for Body-worn Ant 10_EC14		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)		LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00	Maximum Tune up Power (dBm)	21.00	24.00
Reported 10g SAR (W/kg)	0.388	0.526	Reported 1g SAR (W/kg)	0.070	0.097
Duty Cycle	63.30%	43.30%	Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01	Frame Averaged (mW)	79.69	108.76
Linearity SAR (W/kg)	0.530		Linearity SAR (W/kg)	0.096	
% deviation from expected linearity		-0.67%	% deviation from expected linearity		1.53%

17. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
5.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
6.	WWAN + WLAN2.4GHz + NFC				Yes
7.	WWAN + WLAN5GHz + NFC				Yes
8.	WWAN + Bluetooth + NFC				Yes
9.	WLAN5GHz+ Bluetooth + NFC				Yes
10.	WWAN + WLAN5GHz+ Bluetooth + NFC				Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For EN-DC mode, MediaTek TA-SAR algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. TA-SAR algorithm controls the total RF exposure from both 4G and 5G NR to not exceed SAR exposure limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In this Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
- For distance SAR and non-distance SAR at extremity exposure conditions always chose higher SAR to do co-located analysis.
- For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
- For standalone WWAN, always choose the highest SAR among all WWAN bands within the selected antenna for Head/hotspot/extremity exposure condition each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band. If the co-located analysis within standalone SAR is higher SAR limit (1.6W/kg for 1g SAR, 4.0W/kg for 10g SAR), always choose the highest SAR among the selected WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT.
- The maximum SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 17.6.

17.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

In 5G NR + LTE + WLAN + BT simultaneous transmission, 5G NR and LTE transmission are managed and controlled by MediaTek TA-SAR, while the RF exposure from WLAN and BT radios is managed using legacy approach, i.e., through a fixed power back-off if needed.

Since WLAN and BT do not employ time-averaging, 1gSAR and 10gSAR measurement for WLAN and BT need to be conducted at their corresponding rated power following current FCC test procedures to determine reported SAR values.

TA-SAR current implementation assumes hotspots from 5G NR and LTE are collocated. Therefore, for a total of 100% exposure margin, if LTE uses x, then the exposure margin left for 5G NR is capped to y. Thus, the compliance equation for LTE + 5G NR is

$$\begin{aligned} x \cdot A + y \cdot B + m &\leq 1 \\ x + y &= g \leq 1 \\ g + m &\leq 1 \end{aligned}$$

Where, A is normalized reported time-averaged SAR exposure ratio from LTE, and $A \leq 1.0$; B is normalized reported time-averaged exposure ratio from 5G NR (i.e., SAR exposure for 5G FR1), and $B \leq 1.0$.

Let m = normalized reported SAR exposure ratio from WLAN+BT, then for compliance,

$$x \cdot A + y \cdot B + m \leq 1.0 \quad (1)$$

$$x \cdot A + y \cdot B \leq x \cdot \max(A, B) + (g-x) \cdot \max(A, B) \leq \max(A, B)$$

$$x \cdot A + (g-x) \cdot B + m \leq \max(A, B) + m \leq 1.0 \quad (2)$$

If $A + m \leq 1.0$ and $B + m \leq 1.0$ can be proven, then " $x \cdot A + y \cdot B + m \leq 1.0$ ". Therefore simultaneous transmission analysis for 5G NR + LTE + WLAN + BT can be performed in two steps

Step 1: Prove total exposure ratio (TER) of LTE + WLAN + BT < 1

Step 2: Prove total exposure ratio (TER) of 5G NR + WLAN + BT < 1

Else, if $A + m > 1.0$ and/or $B + m > 1.0$, then the followings need to hold true for compliance:

- i. A and m are decoupled based on the SPLSR criteria, and
- ii. $y \cdot B + m \leq 1.0$, and
- iii. $x \cdot A + y \cdot B \leq 1.0$

Note iii. is covered in Part 2 report; i. and ii. should be addressed in Part 2 report.

Above analysis is also apply to LTE inter-band uplink, LTE1 + LTE2 + WLAN + BT simultaneous transmission, so inter-band uplink CA no need to do additional simultaneously analysis again. Only required comply with total exposure ratio (TER) of LTE + WLAN + BT < 1.

17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
All Bands	Right Cheek	0.896	0.350	0.395	0.112	1.25	1.40
	Right Tilted	0.906	0.350	0.395	0.142	1.26	1.44
	Left Cheek	0.669	0.350	0.395	0.286	1.02	1.35
	Left Tilted	0.630	0.350	0.395	0.233	0.98	1.26

Exposure Position	1	2	1+2
	WLAN5GHz Ant 7	Bluetooth Ant 6	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	0.342	0.112	0.45
Right Tilted	0.321	0.142	0.46
Left Cheek	1.196	0.286	1.48
Left Tilted	0.840	0.233	1.07

17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
All Bands(Ant3&4&5&7&10)	Front	0.373	0.297	0.169	0.091	0.67	0.63	
	Back	0.666	0.435	0.318	0.175	1.10	1.16	
	Left side	0.469				0.47	0.47	
	Right side	0.591	0.186	0.547	0.079	0.78	1.22	
	Top side	0.633	0.649	0.118	0.102	1.28	0.85	
	Bottom side					0.00	0.00	
GSM850 Ant 0	Front	0.862	0.297	0.169	0.091	1.16	1.12	
	Back	1.270	0.435	0.318	0.175	1.71	1.76	40&41
	Left side	0.689				0.69	0.69	
	Right side	0.121	0.186	0.547	0.079	0.31	0.75	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.992				0.99	0.99	
GSM1900 Ant 1	Front	0.881	0.297	0.169	0.091	1.18	1.14	
	Back	1.058	0.435	0.318	0.175	1.49	1.55	
	Left side	0.261				0.26	0.26	
	Right side	0.322	0.186	0.547	0.079	0.51	0.95	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.250				1.25	1.25	
WCDMA II Ant 1	Front	0.954	0.297	0.169	0.091	1.25	1.21	
	Back	1.072	0.435	0.318	0.175	1.51	1.57	
	Left side	0.229				0.23	0.23	
	Right side	0.334	0.186	0.547	0.079	0.52	0.96	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.286				1.29	1.29	
WCDMA IV Ant 1	Front	0.674	0.297	0.169	0.091	0.97	0.93	
	Back	0.916	0.435	0.318	0.175	1.35	1.41	
	Left side	0.159				0.16	0.16	
	Right side	0.287	0.186	0.547	0.079	0.47	0.91	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.290				1.29	1.29	



WCDMA V Ant 0	Front	0.799	0.297	0.169	0.091	1.10	1.06	
	Back	1.287	0.435	0.318	0.175	1.72	1.78	43&44
	Left side	0.753				0.75	0.75	
	Right side	0.136	0.186	0.547	0.079	0.32	0.76	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.915				0.92	0.92	
LTE Band 25 Ant 1	Front	0.887	0.297	0.169	0.091	1.18	1.15	
	Back	1.003	0.435	0.318	0.175	1.44	1.50	
	Left side	0.197				0.20	0.20	
	Right side	0.362	0.186	0.547	0.079	0.55	0.99	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.287				1.29	1.29	
LTE Band 66 Ant 1	Front	0.748	0.297	0.169	0.091	1.05	1.01	
	Back	0.915	0.435	0.318	0.175	1.35	1.41	
	Left side	0.173				0.17	0.17	
	Right side	0.316	0.186	0.547	0.079	0.50	0.94	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.288				1.29	1.29	
LTE Band 26 Ant 0	Front	0.906	0.297	0.169	0.091	1.20	1.17	
	Back	1.272	0.435	0.318	0.175	1.71	1.77	45&46
	Left side	0.767				0.77	0.77	
	Right side	0.158	0.186	0.547	0.079	0.34	0.78	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.032				1.03	1.03	
LTE Band 7 Ant 1	Front	0.679	0.297	0.169	0.091	0.98	0.94	
	Back	0.902	0.435	0.318	0.175	1.34	1.40	
	Left side	0.247				0.25	0.25	
	Right side	0.165	0.186	0.547	0.079	0.35	0.79	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.294				1.29	1.29	
LTE Band 12 Ant 0	Front	0.934	0.297	0.169	0.091	1.23	1.19	
	Back	1.287	0.435	0.318	0.175	1.72	1.78	47&48
	Left side	1.113				1.11	1.11	
	Right side	0.244	0.186	0.547	0.079	0.43	0.87	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.210				1.21	1.21	
LTE Band 13 Ant 0	Front	0.958	0.297	0.169	0.091	1.26	1.22	
	Back	1.282	0.435	0.318	0.175	1.72	1.78	49&50
	Left side	1.103				1.10	1.10	
	Right side	0.237	0.186	0.547	0.079	0.42	0.86	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.230				1.23	1.23	
LTE Band 14 Ant 0	Front	0.718	0.297	0.169	0.091	1.02	0.98	
	Back	0.979	0.435	0.318	0.175	1.41	1.47	
	Left side	1.124				1.12	1.12	
	Right side	0.231	0.186	0.547	0.079	0.42	0.86	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.288				1.29	1.29	
LTE Band 30 Ant 1	Front	0.765	0.297	0.169	0.091	1.06	1.03	
	Back	0.841	0.435	0.318	0.175	1.28	1.33	
	Left side	0.246				0.25	0.25	
	Right side	0.205	0.186	0.547	0.079	0.39	0.83	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.288				1.29	1.29	
LTE Band 71 Ant 0	Front	0.777	0.297	0.169	0.091	1.07	1.04	
	Back	1.051	0.435	0.318	0.175	1.49	1.54	



	Left side	0.878				0.88	0.88	
	Right side	0.190	0.186	0.547	0.079	0.38	0.82	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.937				0.94	0.94	
LTE Band 41 Ant 0	Front	0.336	0.297	0.169	0.091	0.63	0.60	
	Back	0.885	0.435	0.318	0.175	1.32	1.38	
	Left side	0.281				0.28	0.28	
	Right side	0.079	0.186	0.547	0.079	0.27	0.71	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.786				0.79	0.79	
LTE Band 41 Ant 1	Front	0.526	0.297	0.169	0.091	0.82	0.79	
	Back	0.772	0.435	0.318	0.175	1.21	1.27	
	Left side	0.211				0.21	0.21	
	Right side	0.104	0.186	0.547	0.079	0.29	0.73	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.158				1.16	1.16	
FR1 n25 Ant 1	Front	0.932	0.297	0.169	0.091	1.23	1.19	
	Back	0.977	0.435	0.318	0.175	1.41	1.47	
	Left side	0.260				0.26	0.26	
	Right side	0.322	0.186	0.547	0.079	0.51	0.95	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.270				1.27	1.27	
FR1 n26 Ant 0	Front	0.691	0.297	0.169	0.091	0.99	0.95	
	Back	0.977	0.435	0.318	0.175	1.41	1.47	
	Left side	0.691				0.69	0.69	
	Right side	0.121	0.186	0.547	0.079	0.31	0.75	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.758				0.76	0.76	
FR1 n7 Ant 1	Front	0.657	0.297	0.169	0.091	0.95	0.92	
	Back	0.763	0.435	0.318	0.175	1.20	1.26	
	Left side	0.285				0.29	0.29	
	Right side	0.179	0.186	0.547	0.079	0.37	0.81	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.289				1.29	1.29	
FR1 n12 Ant 0	Front	0.544	0.297	0.169	0.091	0.84	0.80	
	Back	0.757	0.435	0.318	0.175	1.19	1.25	
	Left side	0.597				0.60	0.60	
	Right side	0.120	0.186	0.547	0.079	0.31	0.75	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.557				0.56	0.56	
FR1 n14 Ant 0	Front	0.684	0.297	0.169	0.091	0.98	0.94	
	Back	0.893	0.435	0.318	0.175	1.33	1.39	
	Left side	0.733				0.73	0.73	
	Right side	0.143	0.186	0.547	0.079	0.33	0.77	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.789				0.79	0.79	
FR1 n30 Ant 1	Front	0.816	0.297	0.169	0.091	1.11	1.08	
	Back	0.956	0.435	0.318	0.175	1.39	1.45	
	Left side	0.409				0.41	0.41	
	Right side	0.219	0.186	0.547	0.079	0.41	0.85	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.285				1.29	1.29	
FR1 n66 Ant 1	Front	0.764	0.297	0.169	0.091	1.06	1.02	
	Back	1.020	0.435	0.318	0.175	1.46	1.51	
	Left side	0.164				0.16	0.16	
	Right side	0.297	0.186	0.547	0.079	0.48	0.92	



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	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.283				1.28	1.28	
FR1 n70 Ant 1	Front	0.686	0.297	0.169	0.091	0.98	0.95	
	Back	0.890	0.435	0.318	0.175	1.33	1.38	
	Left side	0.160				0.16	0.16	
	Right side	0.270	0.186	0.547	0.079	0.46	0.90	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.276				1.28	1.28	
FR1 n71 Ant 0	Front	0.655	0.297	0.169	0.091	0.95	0.92	
	Back	0.855	0.435	0.318	0.175	1.29	1.35	
	Left side	0.619				0.62	0.62	
	Right side		0.186	0.547	0.079	0.19	0.63	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.751				0.75	0.75	
FR1 n41 Ant 0	Front	0.841	0.297	0.169	0.091	1.14	1.10	
	Back	1.294	0.435	0.318	0.175	1.73	1.79	51&52
	Left side	0.396				0.40	0.40	
	Right side	0.173	0.186	0.547	0.079	0.36	0.80	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.830				0.83	0.83	
FR1 n41 Ant 1	Front	0.772	0.297	0.169	0.091	1.07	1.03	
	Back	0.922	0.435	0.318	0.175	1.36	1.42	
	Left side	0.337				0.34	0.34	
	Right side	0.175	0.186	0.547	0.079	0.36	0.80	
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	1.282				1.28	1.28	
FR1 n48 Ant 9	Front	0.428	0.297	0.169	0.091	0.73	0.69	
	Back	0.648	0.435	0.318	0.175	1.08	1.14	
	Left side	0.033				0.03	0.03	
	Right side	1.276	0.186	0.547	0.079	1.46	1.90	53
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.317				0.32	0.32	
FR1 n77 Ant 9	Front	0.376	0.297	0.169	0.091	0.67	0.64	
	Back	0.696	0.435	0.318	0.175	1.13	1.19	
	Left side	0.355				0.36	0.36	
	Right side	1.289	0.186	0.547	0.079	1.48	1.92	54
	Top side		0.649	0.118	0.102	0.65	0.22	
	Bottom side	0.241				0.24	0.24	

Exposure Position	1	2	1+2
	WLAN5GHz Ant 7	Bluetooth Ant 6	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.169	0.091	0.26
Back	0.318	0.175	0.49
Left side			0.00
Right side	0.547	0.079	0.63
Top side	0.118	0.102	0.22
Bottom side			0.00



17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	Case No
		WWAN 1g SAR (W/kg)	WLAN2.4GHz Ant 6 1g SAR (W/kg)	WLAN5GHz Ant 7 1g SAR (W/kg)	Bluetooth Ant 6 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	
All Bands(Ant3&4&5&7&10)	Front	0.552	0.333	0.329	0.091	0.89	0.97	
	Back	0.899	0.333	0.329	0.175	1.23	1.40	
GSM850 Ant 0	Front	0.801	0.333	0.329	0.091	1.13	1.22	
	Back	1.270	0.333	0.329	0.175	1.60	1.77	1&2
GSM1900 Ant 1	Front	1.063	0.333	0.329	0.091	1.40	1.48	
	Back	1.265	0.333	0.329	0.175	1.60	1.77	61&3
WCDMA II Ant 1	Front	1.143	0.333	0.329	0.091	1.48	1.56	
	Back	1.286	0.333	0.329	0.175	1.62	1.79	4&5
WCDMA IV Ant 1	Front	1.066	0.333	0.329	0.091	1.40	1.49	
	Back	1.281	0.333	0.329	0.175	1.61	1.79	6&7
WCDMA V Ant 0	Front	0.917	0.333	0.329	0.091	1.25	1.34	
	Back	1.287	0.333	0.329	0.175	1.62	1.79	8&9
LTE Band 25 Ant 1	Front	1.124	0.333	0.329	0.091	1.46	1.54	
	Back	1.271	0.333	0.329	0.175	1.60	1.78	10&11
LTE Band 66 Ant 1	Front	1.119	0.333	0.329	0.091	1.45	1.54	
	Back	1.278	0.333	0.329	0.175	1.61	1.78	12&13
LTE Band 26 Ant 0	Front	0.925	0.333	0.329	0.091	1.26	1.35	
	Back	1.272	0.333	0.329	0.175	1.61	1.78	14&15
LTE Band 7 Ant 1	Front	0.963	0.333	0.329	0.091	1.30	1.38	
	Back	1.279	0.333	0.329	0.175	1.61	1.78	16&17
LTE Band 12 Ant 0	Front	0.934	0.333	0.329	0.091	1.27	1.35	
	Back	1.287	0.333	0.329	0.175	1.62	1.79	18&19
LTE Band 13 Ant 0	Front	0.958	0.333	0.329	0.091	1.29	1.38	
	Back	1.282	0.333	0.329	0.175	1.62	1.79	20&21
LTE Band 14 Ant 0	Front	0.718	0.333	0.329	0.091	1.05	1.14	
	Back	0.979	0.333	0.329	0.175	1.31	1.48	
LTE Band 30 Ant 1	Front	1.007	0.333	0.329	0.091	1.34	1.43	
	Back	1.107	0.333	0.329	0.175	1.44	1.61	22
LTE Band 71 Ant 0	Front	0.777	0.333	0.329	0.091	1.11	1.20	
	Back	1.051	0.333	0.329	0.175	1.38	1.56	
LTE Band 41 Ant 0	Front	0.336	0.333	0.329	0.091	0.67	0.76	
	Back	1.194	0.333	0.329	0.175	1.53	1.70	23
LTE Band 41 Ant 1	Front	0.843	0.333	0.329	0.091	1.18	1.26	
	Back	1.186	0.333	0.329	0.175	1.52	1.69	24
FR1 n25 Ant 1	Front	1.090	0.333	0.329	0.091	1.42	1.51	
	Back	1.286	0.333	0.329	0.175	1.62	1.79	25&26
FR1 n26 Ant 0	Front	0.691	0.333	0.329	0.091	1.02	1.11	
	Back	0.977	0.333	0.329	0.175	1.31	1.48	
FR1 n7 Ant 1	Front	1.118	0.333	0.329	0.091	1.45	1.54	
	Back	1.290	0.333	0.329	0.175	1.62	1.79	27&28
FR1 n12 Ant 0	Front	0.544	0.333	0.329	0.091	0.88	0.96	
	Back	0.757	0.333	0.329	0.175	1.09	1.26	
FR1 n14 Ant 0	Front	0.684	0.333	0.329	0.091	1.02	1.10	
	Back	0.893	0.333	0.329	0.175	1.23	1.40	
FR1 n30 Ant 1	Front	0.917	0.333	0.329	0.091	1.25	1.34	
	Back	1.089	0.333	0.329	0.175	1.42	1.59	
FR1 n66 Ant 1	Front	0.966	0.333	0.329	0.091	1.30	1.39	
	Back	1.291	0.333	0.329	0.175	1.62	1.80	29&30
FR1 n70 Ant 1	Front	1.011	0.333	0.329	0.091	1.34	1.43	
	Back	1.287	0.333	0.329	0.175	1.62	1.79	31&32



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FR1 n71 Ant 0	Front	0.655	0.333	0.329	0.091	0.99	1.08	
	Back	0.855	0.333	0.329	0.175	1.19	1.36	
FR1 n41 Ant 0	Front	0.841	0.333	0.329	0.091	1.17	1.26	
	Back	1.294	0.333	0.329	0.175	1.63	1.80	33&34
FR1 n41 Ant 1	Front	1.074	0.333	0.329	0.091	1.41	1.49	
	Back	1.281	0.333	0.329	0.175	1.61	1.79	35&36
FR1 n48 Ant 9	Front	0.856	0.333	0.329	0.091	1.19	1.28	
	Back	1.279	0.333	0.329	0.175	1.61	1.78	37&38
FR1 n77 Ant 9	Front	0.700	0.333	0.329	0.091	1.03	1.12	
	Back	1.255	0.333	0.329	0.175	1.59	1.76	39

Exposure Position	1	2	1+2
	WLAN5GHz Ant 7	Bluetooth Ant 6	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.546	0.091	0.64
Back	1.116	0.175	1.29

<Sensor Off>

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 7	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
All Bands	Front	0.820	0.361	0.266	0.001	1.18	1.09
	Back	1.298	0.154	0.285	0.001	1.45	1.58

**17.5 Product specific 10g SAR Exposure Conditions****Remark:**

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	4	1+2+4	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 7	NFC	Summed	Summed	
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
All Bands(Ant3&4&5&7&10)	Front		0.945	0.966	0.001	0.95	0.97	
	Back	2.518	0.945	0.966	0.006	3.47	3.49	
	Left side	2.461	0.945	0.966	0.001	3.41	3.43	
	Right side	1.403	0.945	0.966	0.001	2.35	2.37	
	Top side	2.634	0.945	0.966	0.001	3.58	3.60	
	Bottom side				0.001	0.00	0.00	
GSM850 Ant 0	Front	2.110	0.945	0.966	0.001	3.06	3.08	
	Back	2.560	0.945	0.966	0.006	3.51	3.53	
	Left side	1.242	0.945	0.966	0.001	2.19	2.21	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.464			0.001	2.47	2.47	
GSM1900 Ant 1	Front	2.569	0.945	0.966	0.001	3.52	3.54	
	Back	2.304	0.945	0.966	0.006	3.26	3.28	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.667			0.001	2.67	2.67	
WCDMA II Ant 1	Front	2.973	0.945	0.966	0.001	3.92	3.94	
	Back	2.706	0.945	0.966	0.006	3.66	3.68	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.164			0.001	3.17	3.17	
WCDMA IV Ant 1	Front	2.907	0.945	0.966	0.001	3.85	3.87	
	Back	2.627	0.945	0.966	0.006	3.58	3.60	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.209			0.001	3.21	3.21	
WCDMA V Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.795	0.945	0.966	0.006	2.75	2.77	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	1.735			0.001	1.74	1.74	
LTE Band 25 Ant 1	Front	3.018	0.945	0.966	0.001	3.96	3.99	
	Back	2.598	0.945	0.966	0.006	3.55	3.57	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.209			0.001	3.21	3.21	
LTE Band 66 Ant 1	Front	2.694	0.945	0.966	0.001	3.64	3.66	
	Back	2.471	0.945	0.966	0.006	3.42	3.44	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side							



	Bottom side	2.990			0.001	2.99	2.99	
LTE Band 26 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.813	0.945	0.966	0.006	2.76	2.79	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	1.999			0.001	2.00	2.00	
LTE Band 7 Ant 1	Front	1.755	0.945	0.966	0.001	2.70	2.72	
	Back	1.960	0.945	0.966	0.006	2.91	2.93	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.194			0.001	3.20	3.20	
LTE Band 12 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.703	0.945	0.966	0.006	2.65	2.68	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.006			0.001	2.01	2.01	
LTE Band 13 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.372	0.945	0.966	0.006	2.32	2.34	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	1.603			0.001	1.60	1.60	
LTE Band 14 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back		0.945	0.966	0.006	0.95	0.97	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	1.875			0.001	1.88	1.88	
LTE Band 30 Ant 1	Front	1.948	0.945	0.966	0.001	2.89	2.92	
	Back	1.900	0.945	0.966	0.006	2.85	2.87	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.054			0.001	3.06	3.06	
LTE Band 71 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back		0.945	0.966	0.006	0.95	0.97	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side				0.001	0.00	0.00	
LTE Band 41 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back		0.945	0.966	0.006	0.95	0.97	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side				0.001	0.00	0.00	
LTE Band 41 Ant 1	Front		0.945	0.966	0.001	0.95	0.97	
	Back		0.945	0.966	0.006	0.95	0.97	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.204			0.001	3.21	3.21	
FR1 n25 Ant 1	Front	2.468	0.945	0.966	0.001	3.41	3.44	



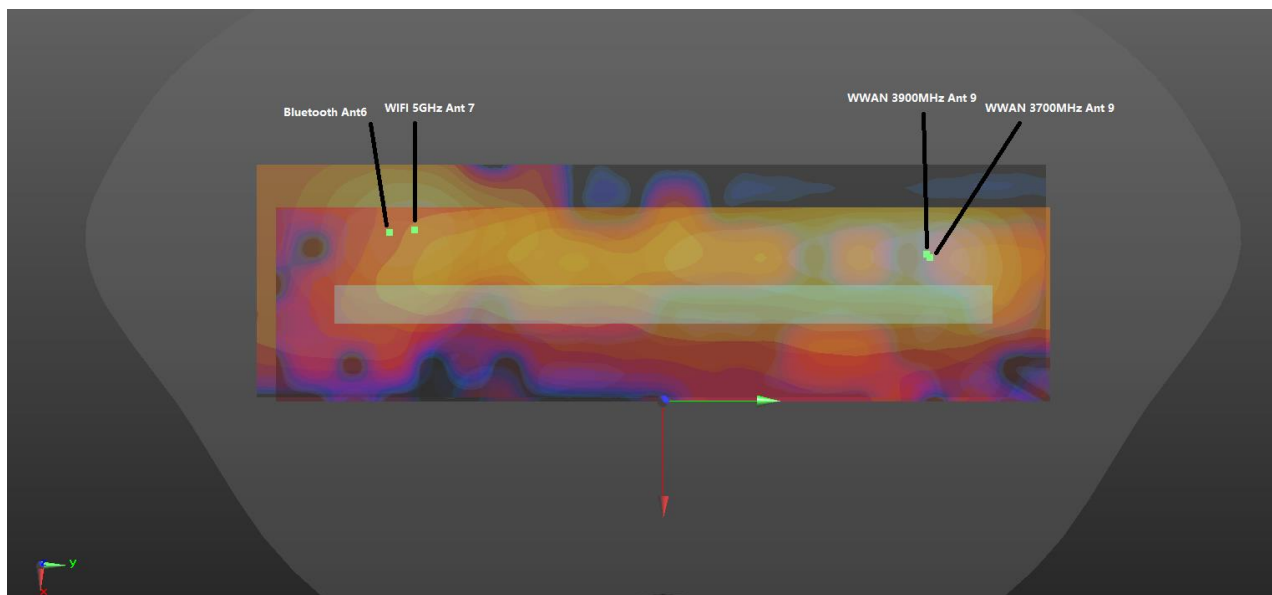
	Back	2.236	0.945	0.966	0.006	3.19	3.21	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.364			0.001	2.37	2.37	
FR1 n7 Ant 1	Front		0.945	0.966	0.001	0.95	0.97	
	Back		0.945	0.966	0.006	0.95	0.97	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.206			0.001	3.21	3.21	
FR1 n30 Ant 1	Front	1.713	0.945	0.966	0.001	2.66	2.68	
	Back	1.952	0.945	0.966	0.006	2.90	2.92	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.989			0.001	2.99	2.99	
FR1 n66 Ant 1	Front	2.718	0.945	0.966	0.001	3.66	3.69	
	Back	2.718	0.945	0.966	0.006	3.67	3.69	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.971			0.001	2.97	2.97	
FR1 n70 Ant 1	Front		0.945	0.966	0.001	0.95	0.97	
	Back	2.238	0.945	0.966	0.006	3.19	3.21	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	2.529			0.001	2.53	2.53	
FR1 n41 Ant 0	Front		0.945	0.966	0.001	0.95	0.97	
	Back	3.180	0.945	0.966	0.006	4.13	4.15	55&56
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side				0.001	0.00	0.00	
FR1 n41 Ant 1	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.800	0.945	0.966	0.006	2.75	2.77	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side		0.945	0.966	0.001	0.95	0.97	
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side	3.185			0.001	3.19	3.19	
FR1 n48 Ant 9	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.296	0.945	0.966	0.006	2.25	2.27	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side	3.151	0.945	0.966	0.001	4.10	4.12	57&58
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side				0.001	0.00	0.00	
FR1 n77 Ant 9	Front		0.945	0.966	0.001	0.95	0.97	
	Back	1.268	0.945	0.966	0.006	2.22	2.24	
	Left side		0.945	0.966	0.001	0.95	0.97	
	Right side	3.169	0.945	0.966	0.001	4.12	4.14	59&60
	Top side		0.945	0.966	0.001	0.95	0.97	
	Bottom side				0.001	0.00	0.00	

Exposure Position	1	2	1+2
	WLAN5GHz Ant 7	NFC	Summed
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
Front	0.880	0.001	0.88
Back	0.906	0.006	0.91
Left side		0.001	0.00
Right side	1.846	0.001	1.85
Top side	0.586	0.001	0.59
Bottom side		0.001	0.00

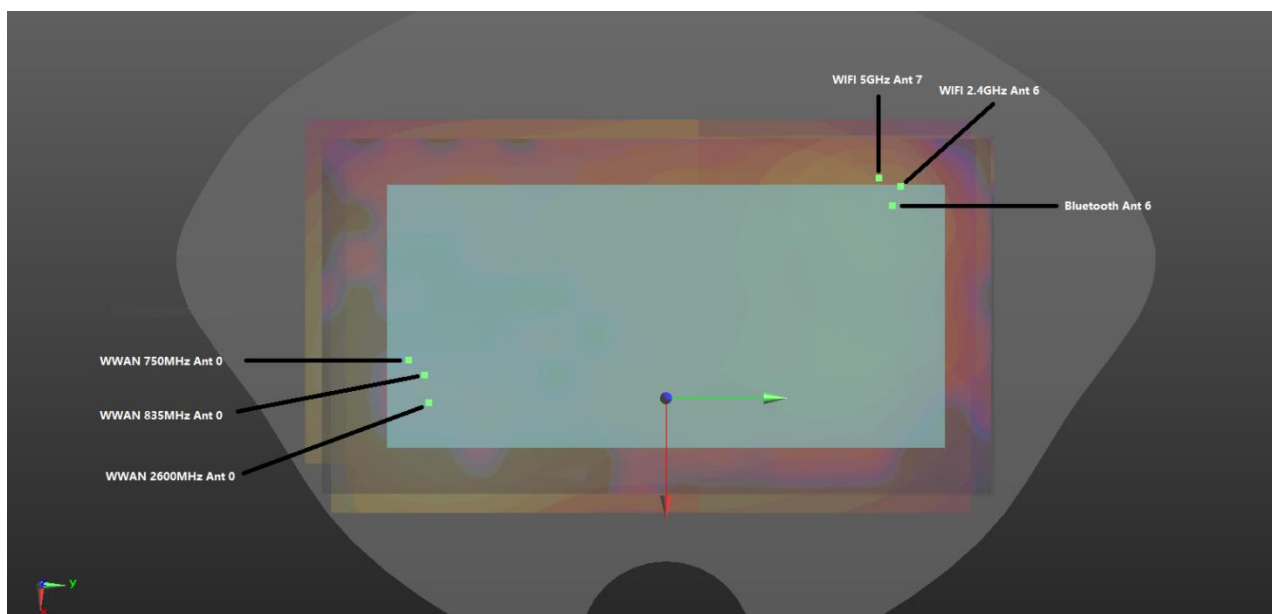
17.6 SPLSR Evaluation and Analysis

General Note:

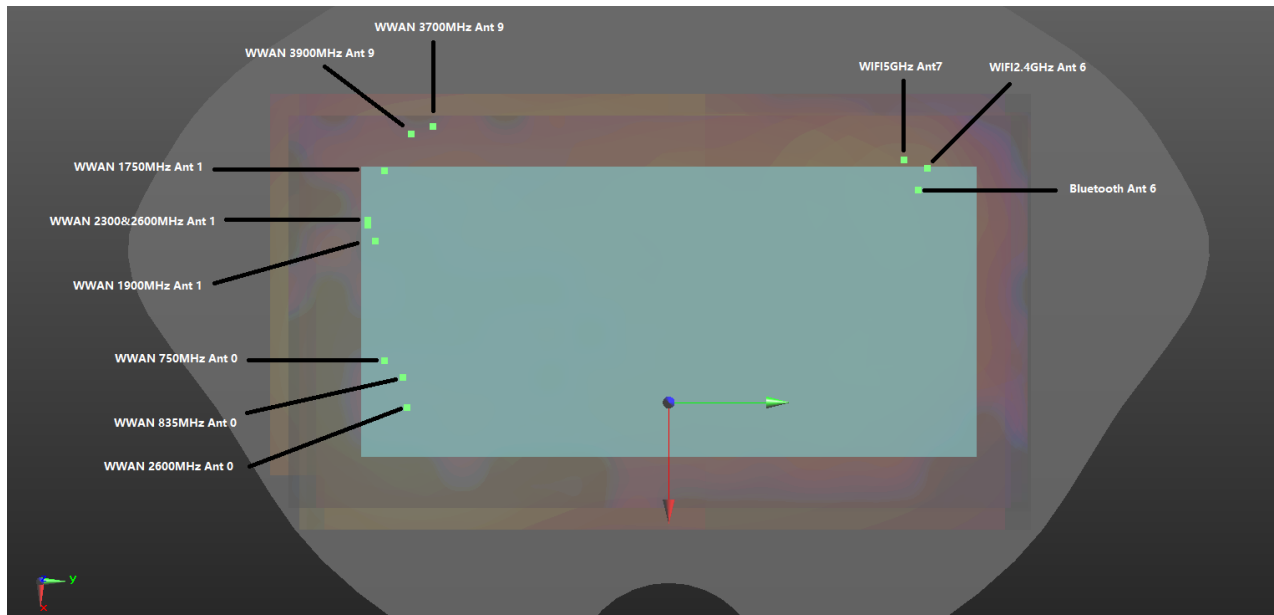
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WLAN5GHz Antenna 7 was summed algebraically with the BT Antenna 6 for the purposes of hybrid SPLSR combination and they are located at the top of the device, and they share the same antenna
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.



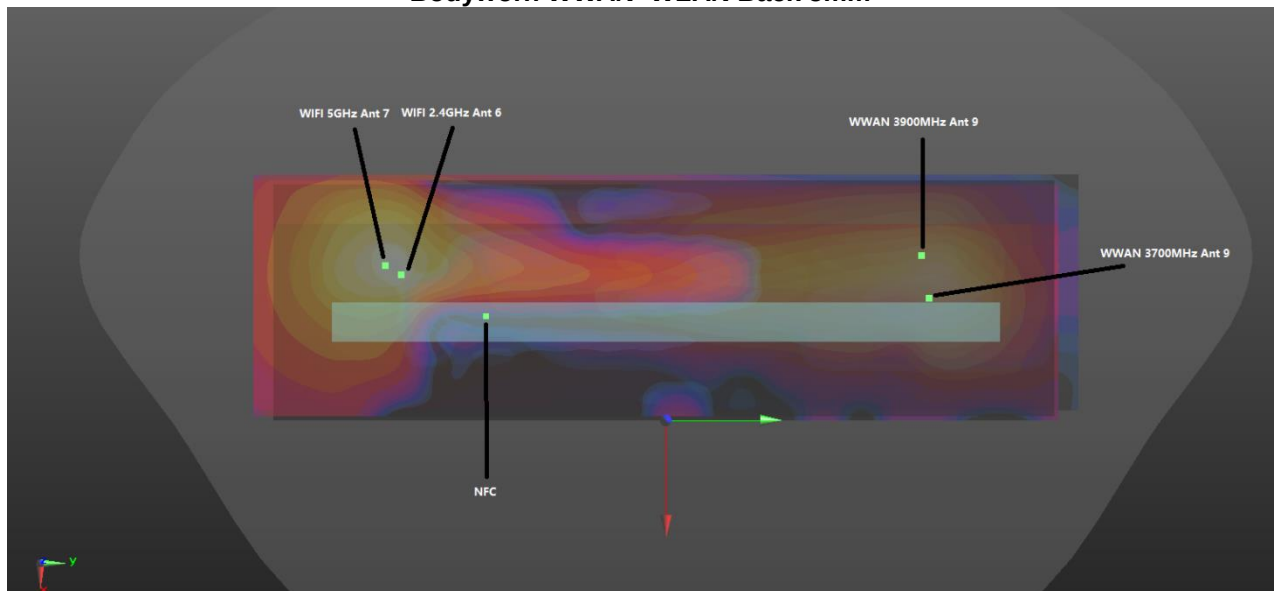
Hotspot WWAN+WLAN Right Side 5mm



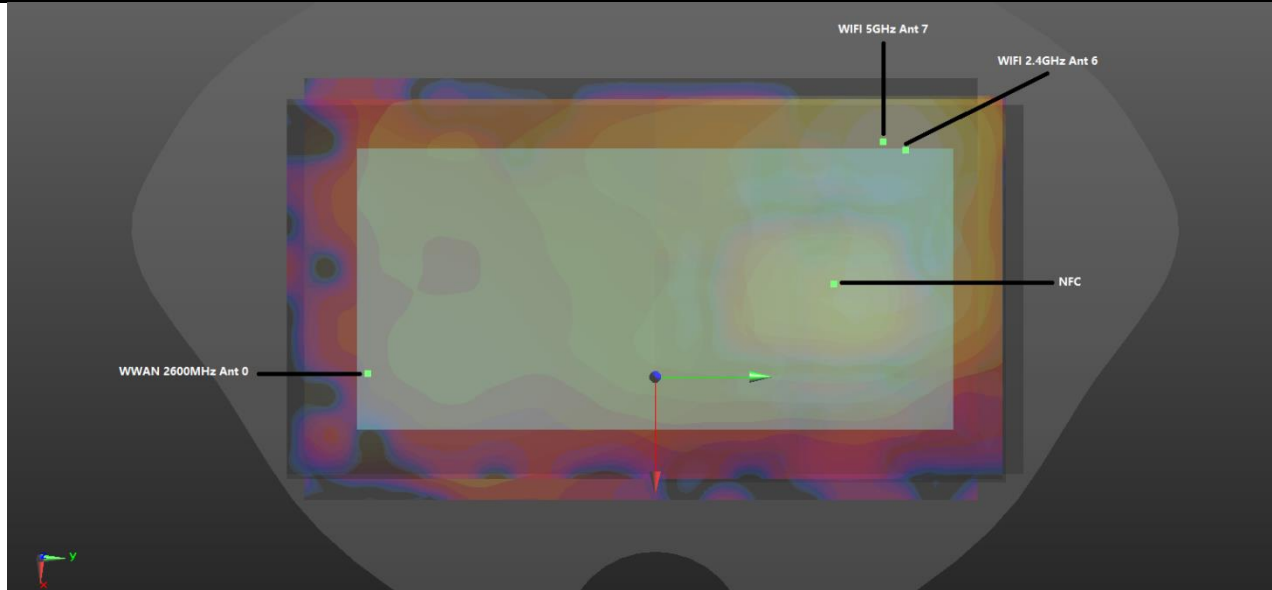
Hotspot WWAN+WLAN Back 5mm



Bodyworn WWAN+WLAN Back 5mm



Extremity WWAN+WLAN Right Side 0mm


Extremity WWAN+WLAN Back 0mm
<Hotspot>

Case No	Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
				(mm)	X	Y	Z					
Case 40	GSM850 Ant 0	Back	1.27	5mm	19.7	-90.5	-1.01	172.0	1.71	0.01	Not required	
	WLAN2.4GHz Ant 6		0.435	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 41	GSM850 Ant 0	Back	1.27	1.27	5mm	19.7	-90.5	-1.01	158.3	1.76	0.01	Not required
	WLAN5GHz Ant 7		0.318	0.49	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175	0.49	5mm							
	GSM850 Ant 0	Back	1.27	1.27	5mm	19.7	-90.5	-1.01	166.9	1.76	0.01	Not required
	WLAN5GHz Ant 7		0.318	0.49	5mm							
	Bluetooth Ant 6		0.175	0.49	5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Case 43	WCDMA V Ant 0	Back	1.287	5mm	19.8	-78.6	-1.16	161.2	1.72	0.01	Not required	
	WLAN2.4GHz Ant 6		0.435	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 44	WCDMA V Ant 0	Back	1.287	1.287	5mm	19.8	-78.6	-1.16	147.5	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.318	0.49	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175	0.49	5mm							
	WCDMA V Ant 0	Back	1.287	1.287	5mm	19.8	-78.6	-1.16	155.8	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.318	0.49	5mm							
	Bluetooth Ant 6		0.175	0.49	5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
					X	Y	Z					
Case 45	LTE Band 26 Ant 0	Back	1.272	5mm	18.3	-81.7	-1.15	163.4	1.71	0.01	Not required	
	WLAN2.4GHz Ant 6		0.435	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 46	LTE Band 26 Ant 0	Back	1.272	1.272	5mm	18.3	-81.7	-1.15	149.7	1.77	0.02	Not required
	WLAN5GHz Ant 7		0.318	0.49	5mm	-43.6	54.6	-1.01				



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	Bluetooth Ant 6	Back	0.175		5mm				158.2	1.77	0.01	Not required
	LTE Band 26 Ant 0		1.272	1.272	5mm	18.3	-81.7	-1.15				
	WLAN5GHz Ant 7		0.318	0.49	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 47	LTE Band 12 Ant 0	Back	1.287	5mm	34	-81.5	-0.39	170.3	1.72	0.01	Not required	
	WLAN2.4GHz Ant 6		0.435	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	
Case 48	LTE Band 12 Ant 0	Back	1.287	1.287	5mm	34	-81.5	-0.39	156.7	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.318		5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	LTE Band 12 Ant 0	Back	1.287	1.287	5mm	34	-81.5	-0.39	164.0	1.78	0.01	Not required
	WLAN5GHz Ant 7		0.318		5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 49	LTE Band 13 Ant 0	Back	1.282	5mm	37.2	-80	-0.38	170.6	1.72	0.01	Not required	
	WLAN2.4GHz Ant 6		0.435	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	
Case 50	LTE Band 13 Ant 0	Back	1.282	1.282	5mm	37.2	-80	-0.38	157.0	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.318		5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	LTE Band 13 Ant 0	Back	1.282	1.282	5mm	37.2	-80	-0.38	164.0	1.78	0.01	Not required
	WLAN5GHz Ant 7		0.318		5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 51	FR1 n41 Ant 0	Back	1.294	5mm	31	-80	-0.34	167.5	1.73	0.01	Not required	
	WLAN2.4GHz Ant 6		0.435	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	
Case 52	FR1 n41 Ant 0	Back	1.294	1.294	5mm	31	-80	-0.34	153.9	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.318		5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	FR1 n41 Ant 0	Back	1.294	1.294	5mm	31	-80	-0.34	161.4	1.79	0.01	Not required
	WLAN5GHz Ant 7		0.318		5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 53	FR1 n48 Ant 9	Right Side	1.276	1.276	5mm	-10.4	69	-0.96	131.0	1.90	0.02	Not required
	WLAN5GHz Ant 7		0.547		5mm	-18.4	-61.8	-1.18				
	Bluetooth Ant 6		0.079		5mm							
	FR1 n48 Ant 9	Right Side	1.276	1.276	5mm	-10.4	69	-0.96	138.1	1.90	0.02	Not required
	WLAN5GHz Ant 7		0.547		5mm							
	Bluetooth Ant 6		0.079		5mm	-17.8	-68.9	-1.05				
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 54	FR1 n77 Ant 9	Right Side	1.289	1.289	5mm	-12.2	66.4	-0.94	128.4	1.92	0.02	Not required
	WLAN5GHz Ant 7		0.547		5mm	-18.4	-61.8	-1.18				
	Bluetooth Ant 6		0.079		5mm							
		FR1 n77 Ant 9	Right Side	1.289	1.289	5mm	-12.2	66.4	-0.94	135.4	1.92	0.02



	WLAN5GHz Ant 7		0.547	0.63	5mm							
	Bluetooth Ant 6		0.079		5mm	-17.8	-68.9	-1.05				

<Body-worn>

Case No	Band	Position	SAR 1g SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
				(mm)	X	Y	Z					
Case 1	GSM850 Ant 0	Back	1.27	5mm	19.7	-90.5	-1.01	172.0	1.60	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 2	GSM850 Ant 0	Back	1.27	1.27	5mm	19.7	-90.5	-1.01	158.3	1.77	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	GSM850 Ant 0	Back	1.27	1.27	5mm	19.7	-90.5	-1.01	166.9	1.77	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 3	GSM1900 Ant 1	Back	1.265	1.265	5mm	-30.1	-88.9	-1.23	144.1	1.77	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	GSM1900 Ant 1	Back	1.265	1.265	5mm	-30.1	-88.9	-1.23	156.0	1.77	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 4	WCDMA II Ant 1	Back	1.286	5mm	-36.3	-93.6	-0.81					
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 5	WCDMA II Ant 1	Back	1.286	1.286	5mm	-36.3	-93.6	-0.81	148.4	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	WCDMA II Ant 1	Back	1.286	1.286	5mm	-36.3	-93.6	-0.81	160.6	1.79	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 6	WCDMA IV Ant 1	Back	1.281	5mm	-37.5	-84.7	-0.85					
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 7	WCDMA IV Ant 1	Back	1.281	1.281	5mm	-37.5	-84.7	-0.85	139.4	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	WCDMA IV Ant 1	Back	1.281	1.281	5mm	-37.5	-84.7	-0.85	151.7	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 8	WCDMA V Ant 0	Back	1.287	5mm	19.8	-78.6	-1.16					
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case	Band	Position	SAR	Summed	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



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No			1g SAR (W/kg)	1g SAR (W/kg)	(mm)	X	Y	Z	distance (mm)	SAR (W/kg)		
Case 9	WCDMA V Ant 0	Back	1.287	1.287	5mm	19.8	-78.6	-1.16	147.5	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	WCDMA V Ant 0	Back	1.287	1.287	5mm	19.8	-78.6	-1.16	155.8	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 10	LTE Band 25 Ant 1	Back	1.271	5mm	-21.1	-87.4	-0.9	157.2	1.60	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 11	LTE Band 25 Ant 1	Back	1.271	1.271	5mm	-21.1	-87.4	-0.9	143.8	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	LTE Band 25 Ant 1	Back	1.271	1.271	5mm	-21.1	-87.4	-0.9	155.1	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 12	LTE Band 66 Ant 1	Back	1.278	5mm	-35.8	-88.1	-1.31	156.0	1.61	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 13	LTE Band 66 Ant 1	Back	1.278	1.278	5mm	-35.8	-88.1	-1.31	142.9	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	LTE Band 66 Ant 1	Back	1.278	1.278	5mm	-35.8	-88.1	-1.31	155.1	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 14	LTE Band 26 Ant 0	Back	1.272	5mm	18.3	-81.7	-1.15	163.4	1.61	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 15	LTE Band 26 Ant 0	Back	1.272	1.272	5mm	18.3	-81.7	-1.15	149.7	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	LTE Band 26 Ant 0	Back	1.272	1.272	5mm	18.3	-81.7	-1.15	158.2	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 16	LTE Band 7 Ant 1	Back	1.279	5mm	-25.2	-86.1	-0.93	155.3	1.61	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 17	LTE Band 7 Ant 1	Back	1.279	1.279	5mm	-25.2	-86.1	-0.93	141.9	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	LTE Band 7 Ant 1	Back	1.279	1.279	5mm	-25.2	-86.1	-0.93	153.5	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							



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	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 18	LTE Band 12 Ant 0	Back	1.287	5mm	34	-81.5	-0.39	170.3	1.62	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 19	LTE Band 12 Ant 0	Back	1.287	1.287	5mm	34	-81.5	-0.39	156.7	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	LTE Band 12 Ant 0	Back	1.287	1.287	5mm	34	-81.5	-0.39	164.0	1.79	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 20	LTE Band 13 Ant 0	Back	1.282	5mm	37.2	-80	-0.38	170.6	1.62	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 21	LTE Band 13 Ant 0	Back	1.282	1.282	5mm	37.2	-80	-0.38	157.0	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	LTE Band 13 Ant 0	Back	1.282	1.282	5mm	37.2	-80	-0.38	164.0	1.79	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 22	LTE Band 30 Ant 1	Back	1.107	1.107	5mm	-24	-87.1	-0.94	143.0	1.61	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	LTE Band 30 Ant 1	Back	1.107	1.107	5mm	-24	-87.1	-0.94	154.5	1.61	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 23	LTE Band 41 Ant 0	Back	1.194	1.194	5mm	28.4	-75.3	-0.66	148.5	1.70	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	LTE Band 41 Ant 0	Back	1.194	1.194	5mm	28.4	-75.3	-0.66	156.0	1.70	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 24	LTE Band 41 Ant 1	Back	1.186	1.186	5mm	-25.2	-86.1	-0.91	141.9	1.69	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	LTE Band 41 Ant 1	Back	1.186	1.186	5mm	-25.2	-86.1	-0.91	153.5	1.69	0.01	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 25	FR1 n25 Ant 1	Back	1.286	5mm	-34.4	-81	-0.92	149.1	1.62	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case	Band	Position	SAR	Summed	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



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No			1g SAR (W/kg)	1g SAR (W/kg)	(mm)	X	Y	Z	distance (mm)	SAR (W/kg)		
Case 26	FR1 n25 Ant 1	Back	1.286	1.286	5mm	-34.4	-81	-0.92	135.9	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	FR1 n25 Ant 1	Back	1.286	1.286	5mm	-34.4	-81	-0.92	148.0	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 27	FR1 n7 Ant 1	Back	1.29	5mm	-33.6	-76.6	-0.87	144.8	1.62	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 28	FR1 n7 Ant 1	Back	1.29	1.29	5mm	-33.6	-76.6	-0.87	131.6	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	FR1 n7 Ant 1	Back	1.29	1.29	5mm	-33.6	-76.6	-0.87	143.6	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 29	FR1 n66 Ant 1	Back	1.291	5mm	-23.8	-86.8	-0.81	156.2	1.62	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 30	FR1 n66 Ant 1	Back	1.291	1.291	5mm	-23.8	-86.8	-0.81	142.8	1.80	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	FR1 n66 Ant 1	Back	1.291	1.291	5mm	-23.8	-86.8	-0.81	154.3	1.80	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 31	FR1 n70 Ant 1	Back	1.287	5mm	-24	-79	-0.88	148.5	1.62	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 32	FR1 n70 Ant 1	Back	1.287	1.287	5mm	-24	-79	-0.88	135.0	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	FR1 n70 Ant 1	Back	1.287	1.287	5mm	-24	-79	-0.88	146.5	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm								
	Bluetooth Ant 6		0.175	5mm	-35.6	67	-1.03					
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 33	FR1 n41 Ant 0	Back	1.294	5mm	31	-80	-0.34	167.5	1.63	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 34	FR1 n41 Ant 0	Back	1.294	1.294	5mm	31	-80	-0.34	153.9	1.80	0.02	Not required
	WLAN5GHz Ant 7		0.329	5mm	-43.6	54.6	-1.01					
	Bluetooth Ant 6		0.175	5mm								
	FR1 n41 Ant 0	Back	1.294	1.294	5mm	31	-80	-0.34	161.4	1.80	0.01	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							



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	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 35	FR1 n41 Ant 1	Back	1.281	5mm	-31.2	-88.6	-0.92	157.0	1.61	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 36	FR1 n41 Ant 1	Back	1.281	1.281	5mm	-31.2	-88.6	-0.92	143.7	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	FR1 n41 Ant 1	Back	1.281	1.281	5mm	-31.2	-88.6	-0.92	155.7	1.79	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 37	FR1 n48 Ant 9	Back	1.279	5mm	-47.8	-65	-0.88	132.4	1.61	0.02	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 38	FR1 n48 Ant 9	Back	1.279	1.279	5mm	-47.8	-65	-0.88	119.7	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	FR1 n48 Ant 9	Back	1.279	1.279	5mm	-47.8	-65	-0.88	132.6	1.78	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)		3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 39	FR1 n77 Ant 9	Back	1.255	1.255	5mm	-49	-72.6	-0.8	127.3	1.76	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm	-43.6	54.6	-1.01				
	Bluetooth Ant 6		0.175		5mm							
	FR1 n77 Ant 9	Back	1.255	1.255	5mm	-49	-72.6	-0.8	140.2	1.76	0.02	Not required
	WLAN5GHz Ant 7		0.329	0.50	5mm							
	Bluetooth Ant 6		0.175		5mm	-35.6	67	-1.03				
Case No	Band	Position	SAR 1g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 61	GSM1900 Ant 1	Back	1.27	5mm	-30.1	-88.9	-1.23	157.4	1.60	0.01	Not required	
	WLAN2.4GHz Ant 6		0.333	5mm	-48.6	67.4	-0.93					

<Extremity>

Case No	Band	Position	SAR 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 55	FR1 n41 Ant 0	Back	3.18	0.951	0mm	31	-80	-0.34	167.5	4.13	0.05	Not required
	WLAN2.4GHz Ant 6		0.945		0mm	-48.6	67.4	-0.93				
	NFC		0.006		0mm							
	FR1 n41 Ant 0	Back	3.18	0.951	0mm	31	-80	-0.34	141.6	4.13	0.06	Not required
	WLAN2.4GHz Ant 6		0.945		0mm							
	NFC		0.006		0mm	-3.1	57.4	-0.87				
Case No	Band	Position	SAR 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 56	FR1 n41 Ant 0	Back	3.18	0.972	0mm	31	-80	-0.34	153.9	4.15	0.06	Not required
	WLAN5GHz Ant 7		0.966		0mm	-43.6	54.6	-1.01				
	NFC		0.006		0mm							
	FR1 n41 Ant 0	Back	3.18	0.972	0mm	31	-80	-0.34	141.6	4.15	0.06	Not required
	WLAN5GHz Ant 7		0.966		0mm							
	NFC		0.006		0mm	-3.1	57.4	-0.87				
Case No	Band	Position	SAR 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 57	FR1 n48 Ant 9	Right Side	3.151	0.946	0mm	-6	63.8	-0.94	136.2	4.10	0.06	Not required
	WLAN2.4GHz Ant 6		0.945		0mm	-12	-72.3	-0.78				
	NFC		0.001		0mm							
	FR1 n48 Ant 9	Right Side	3.151	0.946	0mm	-6	63.8	-0.94	111.4	4.10	0.07	Not required
	WLAN2.4GHz Ant 6		0.945		0mm							
	NFC		0.001		0mm	-1.84	-47.5	-1.01				
Case No	Band	Position	SAR 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 58	FR1 n48 Ant 9	Right Side	3.151	0.967	0mm	-6	63.8	-0.94	129.2	4.12	0.06	Not required
	WLAN5GHz Ant 7		0.966		0mm	-16	-65	-1.1				
	NFC		0.001		0mm							
	FR1 n48 Ant 9	Right Side	3.151	0.967	0mm	-6	63.8	-0.94	111.4	4.12	0.08	Not required
	WLAN5GHz Ant 7		0.966		0mm							
	NFC		0.001		0mm	-1.84	-47.5	-1.01				
Case No	Band	Position	SAR 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 59	FR1 n77 Ant 9	Right Side	3.169	0.946	0mm	-17	62.6	-0.94	135.0	4.12	0.06	Not required
	WLAN2.4GHz Ant 6		0.945		0mm	-12	-72.3	-0.78				
	NFC		0.001		0mm							
	FR1 n77 Ant 9	Right Side	3.169	0.946	0mm	-17	62.6	-0.94	111.1	4.12	0.08	Not required
	WLAN2.4GHz Ant 6		0.945		0mm							
	NFC		0.001		0mm	-1.84	-47.5	-1.01				
Case No	Band	Position	SAR 10g SAR (W/kg)	Summed 10g SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
						X	Y	Z				
Case 60	FR1 n77 Ant 9	Right Side	3.169	0.967	0mm	-17	62.6	-0.94	127.6	4.14	0.07	Not required
	WLAN5GHz Ant 7		0.966		0mm	-16	-65	-1.1				
	NFC		0.001		0mm							
	FR1 n77 Ant 9	Right Side	3.169	0.967	0mm	-17	62.6	-0.94	111.1	4.14	0.08	Not required
	WLAN5GHz Ant 7		0.966		0mm							
	NFC		0.001		0mm	-1.84	-47.5	-1.01				

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18. Uncertainty Assessment

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

19. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [14] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015

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