FCC SAR Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2215-2, XT2215-3, XT2215-4, XT2215DL
FCC ID	:	IHDT56AA4
STANDARD	:	FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Hank Huang

Reviewed by: Hank Huang / Supervisor

Johnny Chen

Approved by: Johnny Chen / Manager

ACCREDITED Cert #5145.01

Sporton International Inc. (Shenzhen)
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People's Republic of China

Table of Contents

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA1N0903	Rev. 01	Initial issue of report.	Feb. 11, 2022

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2215-2, XT2215-3, XT2215-4, XT2215DL,** 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	0.36	1.25	1.25	1.59
		GSM1900	0.10	**1.27**	**1.27**	
	WCDMA	Band V	0.28	1.11	1.11	
		Band IV	0.20	1.08	1.15	
		Band II	0.14	1.11	1.13	
	LTE	Band 71	0.96	1.01	1.01	
		Band 12/ 17	1.05	1.11	1.11	
		Band 13	1.13	0.92	0.92	
		Band 14	**1.23**	1.18	1.18	
		Band 26/ 5	1.03	1.20	1.20	
		Band 66/ 4	1.20	1.26	1.22	
		Band 25/ 2	1.22	1.18	1.04	
		Band 30	1.01	0.99	1.10	
		Band 7	0.29	1.26	1.23	
		Band 41/38	1.21	0.95	1.05	
		Band 48	1.09	0.53	1.25	
	5G NR	n71	0.69	0.45	0.45	
		n12	0.87	0.39	0.39	
		n14	0.85	0.52	0.51	
		n26/n5(ANT2)	1.05	0.61	0.61	
		n5(ANT1)	0.15	0.81	0.81	
		n70	0.33	**1.27**	1.15	
		n66	1.19	1.12	1.11	
		n25/n2	1.22	1.25	1.25	
		n30	1.11	1.24	1.10	
		n41	1.21	1.26	1.24	
		n77/78	1.11	0.61	1.25	
DTS	WLAN	2.4GHz WLAN	1.18	0.73	1.07	1.59
NII		5GHz WLAN	0.81	0.73	1.19	1.57
DSS	Bluetooth	2.4GHz Bluetooth	0.43	0.18	0.20	1.45

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	1.82	3.89
		GSM1900	3.15	
	WCDMA	Band V	1.78	
		Band IV	3.15	
		Band II	3.14	
	LTE	Band 26/ 5	2.37	
		Band 66/ 4	3.16	
		Band 25/ 2	3.06	
		Band 30	2.67	
		Band 7	2.99	

		Band 41/38	3.01	
		Band 48	2.95	
	5G NR	n70	3.11	
		n66	3.15	
		n25/n2	3.10	
		n30	2.96	
		n41	3.08	
		n77/78	**3.16**	
NII	WLAN	5GHz WLAN	3.00	3.89
Date of Testing:			2021/12/18 ~ 2022/1/28	

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / 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.
2. This device supports 5GNR n2 / n78 and 5GNR n25 / n77. Since the supported frequency span for 5GNR n2 / n78 falls completely within the supports frequency span for 5GNR 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 5GNR n25 / n77.
3. This device supports 5GNR n5 and 5GNR n26 at Antenna 2. Since the supported frequency span for 5GNR n5 falls completely within the supports frequency span for 5GNR n26 at Antenna 2, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for 5GNR n26 at Antenna 2.

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. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR03-SZ SAR05-SZ	CN1256	421272

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	XT2215-2, XT2215-3, XT2215-4, XT2215DL
FCC ID	IHDT56AA4
IMEI Code	351475460010985
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 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 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 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 ~ 5700 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 not supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40

	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	S1SD32.29
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 and LTE (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. 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 Qualcomm smart transmit 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.
6. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head and Handheld. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn.
7. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
8. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the WCDMA and LTE modes. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner and supplemental data for additional information can be referred to section 18 and appendix F.
9. LTE band 41 and 5G NR n41/n77 supports HPUE, HPUE power and SAR testing performed separately.
10. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
11. 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.
12. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
13. 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.
14. 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.
15. The four models XT2215-2, XT2215-3, XT2215-4, XT2215DL are only for market differentiation, all the others are the same.
16. This device supports 5GNR 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
	n5	FDD	15	5, 10, 15, 20
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n12	FDD	15	5, 10, 15
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30, 40
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

<table>
<tr><th colspan="2">Summarized necessary items addressed in KDB 941225 D05 v02r05</th></tr>
<tr><td>FCC ID</td><td>IHDT56AA4</td></tr>
<tr><td>Equipment Name</td><td>Mobile Cellular Phone</td></tr>
<tr><td>Operating Frequency Range of each LTE transmission band</td><td>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</td></tr>
<tr><td>Channel Bandwidth</td><td>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</td></tr>
<tr><td>uplink modulations used</td><td>QPSK / 16QAM / 64QAM /256QAM</td></tr>
<tr><td>LTE Voice / Data requirements</td><td>Voice and Data</td></tr>
<tr><td>LTE Release Version</td><td>R15, Cat18</td></tr>
<tr><td>CA Support</td><td>Supported, Uplink and Downlink</td></tr>
<tr><td>LTE MPR permanently built-in by design</td><td>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3
<table>
<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></td></tr>
<tr><td>LTE A-MPR</td><td>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)</td></tr>
<tr><td>Spectrum plots for RB configuration</td><td>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.</td></tr>
<tr><td>Power reduction applied to satisfy SAR compliance</td><td>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.</td></tr>
<tr><td>LTE Carrier Aggregation Combinations</td><td>Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.</td></tr>
<tr><td>LTE Carrier Aggregation Additional Information</td><td>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 4 carriers in the downlink and 2 carriers in the uplink.</td></tr>
</table>

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)				
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)				
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)				
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)					
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)					
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)					
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)
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

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 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 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	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n12: 5MHz, 10MHz, 15MHz 5G NR n14: 5MHz, 10MHz 5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MH 5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n30: 5MHz, 10MHz 5G NR n41: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz 5G NR n70: 5MHz, 10MHz, 15MHz 5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz 5G NR n77: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz 5G NR n78: 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B5/7/12/13/14/30/66/71/48
LTE Anchor Bands for n5	LTE B2/7/30/48/66
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B2/12/66/48
LTE Anchor Bands for n30	LTE B2/5/12/14/66
LTE Anchor Bands for n41	LTE B2/4/12/25/26/66/71
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/30/71/48
LTE Anchor Bands for n71	LTE B2/7/66
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/66
LTE Anchor Bands for n78	LTE B2/5/7/12/13/66/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band								
NR Band 5								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839

NR Band 12						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	140300	701.5	140800	704	141300	706.5
M	141500	707.5	141500	707.5	141500	707.5
H	142700	713.5	142200	711	141700	708.5

NR Band 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 40MHz	
	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	374000	1870
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895

NR Band 26								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	163300	816.5	163800	819	164300	821.5	164800	824
M	166300	831.5	166300	831.5	166300	831.5	166300	831.5
H	169300	846.5	168800	844	168300	841.5	167800	839

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

NR Band 66												
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	345000	1725	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353000	1765	352000	1760

NR Band 70						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	339500	1697.5	340000	1700	340500	1702.5
M	340500	1702.5	340500	1702.5		
H	341500	1707.5	341000	1705		

NR Band 71								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688

NR Band 41																				
	Bandwidth 20MHz		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)
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77																		
	Bandwidth 20MHz		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)
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	664666	3969.99	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930

NR Band 78																		
	Bandwidth 20MHz		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)
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	652666	3789.99	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

For <3450 MHz ~ 3550 MHz >

NR Band 77																		
	Bandwidth 20MHz		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)
L	630668	3460.02	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
H	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

NR Band 78																		
	Bandwidth 20MHz		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)
L	630668	3460.02	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
H	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

5. Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit 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 ≤ 6GHz). 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.

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 Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit 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 DSI

<SAR Characterization>

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

<SAR design target and uncertainty>

	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 Smart Transmit 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.

Smart Transmit 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. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

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

Band	Antenna	Head		Body Worn		Hotspot	Extremity		Sensor Off	Pmax*
		DSI 2	DSI 2_ Sim TX	DSI 3	DSI 3_ Sim TX	DSI 3_ Sim TX	DSI 6	DSI 6_ Sim TX	DSI4	
LTE Band 71	Ant 2	25.2	21.5	27.4	24.3	24.3	23.0	23.0	23.0	23.0
LTE Band 12 / 17	Ant 2	22.5	21.0	26.1	22.0	22.0	23.0	23.0	23.0	23.0
LTE Band 13	Ant 2	22.0	20.5	26.1	21.5	21.5	23.0	23.0	23.0	23.0
LTE Band 14	Ant 2	22.0	20.5	25.8	22.5	22.5	23.0	23.0	23.0	23.0
LTE Band 26 / 5	Ant 2	22.5	21.0	24.5	21.5	21.5	23.0	23.0	23.0	23.0
LTE Band 66 / 4	Ant 2	22.0	20.0	22.0	19.0	19.0	22.0	19.0	23.0	23.0
LTE Band 25 / 2	Ant 2	21.0	19.0	21.5	18.5	18.5	22.5	19.5	23.0	23.0
LTE Band 30	Ant 8	17.0	15.5	18.0	12.5	12.5	19.5	16.5	23.0	23.0
LTE Band 41_PC3	Ant 8	17.9	16.4	16.9	12.9	12.9	19.9	16.9	21.0	21.0
LTE Band 41_PC2	Ant 8								22.4	22.4
LTE Band 48	Ant 4	20.0	18.5	17.0	13.5	13.5	18.0	15.0	21.0	21.0
FR1 N71	Ant 2	26.7	25.0	30.4	25.4	25.4	23.0	23.0	23.0	23.0
FR1 N12	Ant 2	25.6	24.0	29.1	25.9	25.9	23.0	23.0	23.0	23.0
FR1 N14	Ant 2	25.7	24.1	27.9	24.7	24.7	23.0	23.0	23.0	23.0
FR1 N26 / N5	Ant 2	25.0	22.0	27.2	24.1	24.1	23.0	23.0	23.0	23.0
FR1 N70	Ant 2	29.9	28.3	31.3	27.0	27.0	23.0	23.0	23.0	23.0
FR1 N66	Ant 2	24.3	21.5	25.6	21.0	21.0	23.0	23.0	23.0	23.0
FR1 N25 / N2	Ant 2	21.5	20.0	21.5	18.0	18.0	22.0	18.5	23.0	23.0
FR1 N30	Ant 8	18.0	16.5	18.0	14.0	14.0	20.5	17.5	23.0	23.0
FR1 N41_PC3	Ant 8	18.5	17.0	19.0	13.5	13.5	21.5	18.5	23.0	23.0
FR1 N41_PC2	Ant 8	18.5	17.0	19.0	13.5	13.5	21.5	18.5	26.0	26.0
FR1 N41(SRS)	Ant 6	32.5	30.9	19.0	16.0	16.0	19.0	19.0	19.0	19.0
FR1 N41(SRS)	Ant 9	28.2	26.6	15.5	13.0	13.0	19.0	19.0	19.0	19.0
FR1 N77 PC3/N78	Ant 4	21.5	20.0	12.0	9.0	9.0	16.5	13.5	23.0	23.0
FR1 N77 PC2	Ant 4	21.5	20.0	12.0	9.0	9.0	16.5	13.5	26.0	26.0
FR1 N77 / N78(SRS)	Ant 5	29.8	28.1	20.8	16.5	16.5	19.5	19.5	19.5	19.5
FR1 N77 / N78(SRS)	Ant 6	33.2	31.6	11.0	8.0	8.0	17.0	17.0	17.0	17.0
FR1 N77 / N78(SRS)	Ant 10	37.0	35.3	19.6	15.0	15.0	17.0	17.0	17.0	17.0
GSM850(4 Tx slots)	Ant 1	32.4	32.4	24.0	24.0	24.0	29.4	29.4	26.0	26.0
GSM1900(3 Tx slots)	Ant 1	35.0	35.0	17.7	16.2	16.2	20.7	20.7	22.7	22.7
WCDMA V	Ant 1	30.6	30.6	22.0	22.0	22.0	26.1	26.1	23.0	23.0
WCDMA IV	Ant 1	32.1	32.1	18.5	16.5	16.5	21.5	21.5	23.0	23.0
WCDMA II	Ant 1	33.5	33.5	16.5	15.5	15.5	20.5	20.5	23.0	23.0
LTE Band 71	Ant 1	32.3	32.3	25.0	25.0	25.0	23.0	23.0	23.0	23.0
LTE Band 12 / 17	Ant 1	31.0	31.0	24.6	24.6	24.6	23.0	23.0	23.0	23.0
LTE Band 13	Ant 1	31.4	31.4	25.4	25.4	25.4	23.0	23.0	23.0	23.0
LTE Band 14	Ant 1	31.4	31.4	24.3	24.3	24.3	23.0	23.0	23.0	23.0
LTE Band 26 / 5	Ant 1	30.4	30.4	22.0	22.0	22.0	24.5	24.5	23.0	23.0
LTE Band 66 / 4	Ant 1	32.1	32.1	18.0	16.5	16.5	21.5	21.5	23.0	23.0
LTE Band 25 / 2	Ant 1	31.6	31.6	16.5	15.5	15.5	20.0	20.0	23.0	23.0
LTE Band 30	Ant 7	33.5	33.5	22.0	21.0	21.0	23.0	23.0	23.0	23.0
LTE Band 7	Ant 7	30.4	30.4	21.5	21.5	21.5	22.5	22.5	23.0	23.0
LTE Band 41_PC3 / 38	Ant 7	29.4	29.4	18.9	17.9	17.9	21.4	21.4	21.0	21.0
LTE Band 41_PC2	Ant 7								22.4	22.4
FR1 N71	Ant 1	35.2	35.2	28.5	28.5	28.5	23.0	23.0	23.0	23.0
FR1 N5	Ant 1	33.2	33.2	26.0	26.0	26.0	23.0	23.0	23.0	23.0

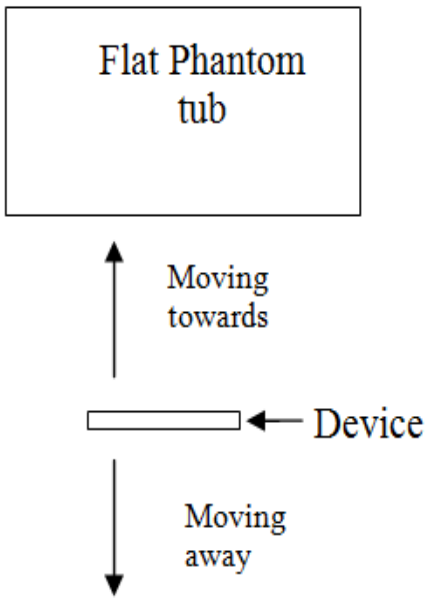
FR1 N70	Ant 1	34.7	34.7	18.0	17.0	17.0	22.0	22.0	23.0	23.0
FR1 N66	Ant 1	33.1	33.1	17.0	15.5	15.5	20.5	20.5	23.0	23.0
FR1 N25 / N2	Ant 1	35.3	35.3	17.0	16.0	16.0	21.0	21.0	23.0	23.0
FR1 N30	Ant 7	32.6	32.6	21.0	21.0	21.0	22.5	22.5	23.0	23.0
FR1 N41_PC3	Ant 7	31.1	31.1	20.0	20.0	20.0	22.0	22.0	23.0	23.0
FR1 N41_PC2	Ant 7	31.1	31.1	20.0	20.0	20.0	22.0	22.0	26.0	26.0

Note: 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1.0 dB uncertainty.
2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD).
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.
4) 5G NR n41 Ant 3/Ant 9, and n77/78 Ant 5/ Ant 6/ Ant 10 support SRS (Sounding Reference Signal) functionality.

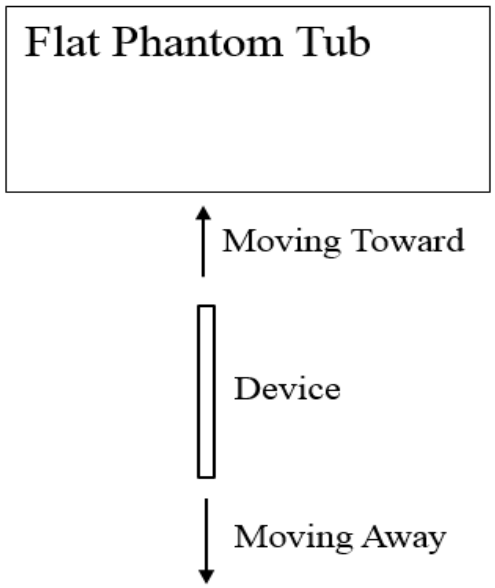
6. Proximity Sensor Triggering Test

<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 (5825MHz) 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 sides of the device. When front/back/top/bottom/left 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:



Sensor/Handheld detection test set-up, Front and Back sides



Handheld detection test set-up, Left Side, Bottom Side and Top Side

<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	22	25	28	33

<Handheld for ANT1/7>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	6	8	9	13	15

<Handheld for ANT2/8>

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	8	11	11	14	11	16	13	17

<Handheld for ANT4>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	13	16	11	16

<Handheld for ANT10>

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	13	16

<Handheld for ANT5>

Proximity Sensor Triggering Distance (mm)		
Position	Back	
	Moving towards	Moving away
Minimum	8	10

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:

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

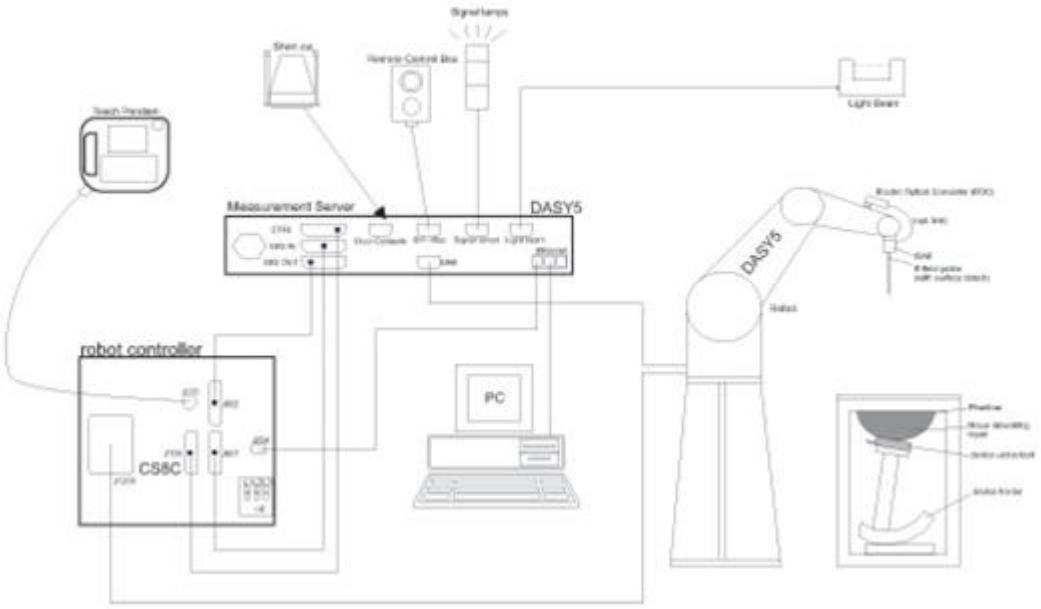
SAR is expressed in units of Watts per kilogram (W/kg)

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

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 DASY5 system used for performing compliance tests consists of the following items:



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

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.

<ES3DV3 Probe>

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

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)	
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/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.

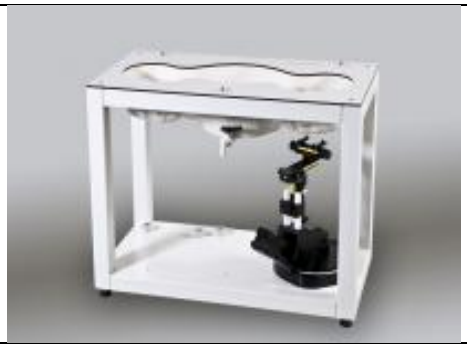
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

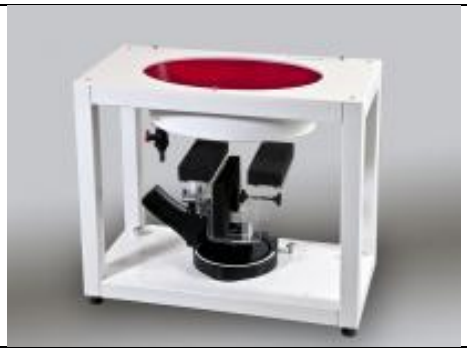
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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 in the frequency range of 30 MHz to 6 GHz. ELI4 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 form 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 dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ 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 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 shoes 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: Δx_{Zoom}, Δy_{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: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
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 for 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	Mar. 27, 2019	Mar. 24, 2022
SPEAG	835MHz System Validation Kit	D835V2	4d258	May 07, 2020	May 06, 2023
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 27, 2019	Mar. 25, 2022
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 26, 2019	Mar. 24, 2022
SPEAG	2300MHz System Validation Kit	D2300V2	1056	Oct. 20, 2021	Oct. 19, 2022
SPEAG	2450MHz System Validation Kit	D2450V2	924	Sep. 02, 2020	Sep. 01, 2023
SPEAG	2600MHz System Validation Kit	D2600V2	1061	Nov. 26, 2020	Nov. 25, 2023
SPEAG	3500MHz System Validation Kit	D3500V2	1076	Apr. 29, 2019	Apr. 14, 2022
SPEAG	3700MHz System Validation Kit	D3700V2	1037	Apr. 29, 2019	Apr. 14, 2022
SPEAG	3900MHz System Validation Kit	D3900V2	1022	Jul. 11, 2019	Jul. 06, 2022
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 24, 2019	Sep. 22, 2022
SPEAG	Data Acquisition Electronics	DAE4	910	Jul. 15, 2021	Jul. 14, 2022
SPEAG	Data Acquisition Electronics	DAE4	1437	Oct. 26, 2021	Oct. 25, 2022
SPEAG	Dosimetric E-Field Probe	ES3DV3	3191	Feb. 19, 2021	Feb. 18, 2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	7577	Nov. 23, 2021	Nov. 22, 2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	7576	Apr. 26, 2021	Apr. 25, 2022
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1795	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P41 AA	2035	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 14, 2021	Jul. 13, 2022
Anritsu	Radio communication analyzer	MT8821C	6262314715	Jun. 29, 2021	Jun. 28, 2022
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Jul. 14, 2021	Jul. 13, 2022
Agilent	Network Analyzer	E5071C	MY46523671	Oct. 25, 2021	Oct. 24, 2022
Speag	Dielectric Assessment KIT	DAK-3.5	1138	Jun. 09, 2021	Jun. 08, 2022
Agilent	Vector Signal Generator	MG3710A	6201682672	Jan. 07, 2021	Jan. 06, 2022
Agilent	Signal Generator	N5181A	MY50145381	Dec. 28, 2021	Dec. 27, 2022
R&S	Power Sensor	NRP50S	101254	Apr. 09, 2021	Apr. 08, 2022
R&S	Power Sensor	NRP8S	109228	Apr. 09, 2021	Apr. 08, 2022
R&S	CBT BLUETOOTH TESTER	CBT	100963	Dec. 28, 2021	Dec. 27, 2022
R&S	Spectrum Analyzer	FSP7	100818	Jul. 14, 2021	Jul. 13, 2022
TES	Hygrometer	1310	200505600	Jul. 17, 2021	Jul. 16, 2022
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 17, 2021	Jul. 16, 2022
Anymetre	Thermo-Hygrometer	JR593	2020062101	Jul. 17, 2021	Jul. 16, 2022
SPEAG	Device Holder	N/A	N/A	N/A	N/A
ARRA	Power Divider	A3200-2	N/A	Note 1	
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	
Weinschel	Attenuator 2	3M-20	N/A	Note 1	
AR	Amplifier	5S1G4	0333096	Note 1	
mini-circuits	Amplifier	ZVE-3W-83+	599201528	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.

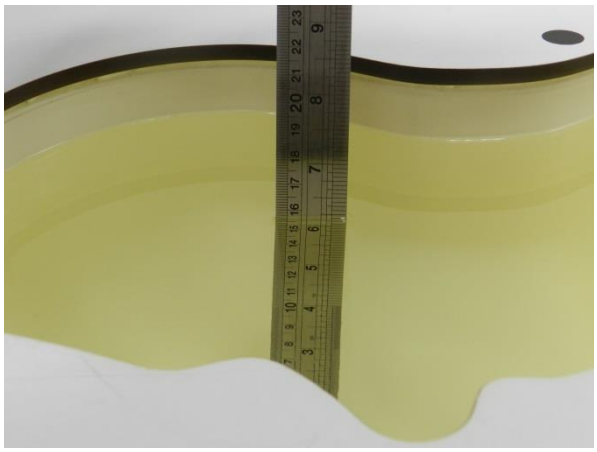


Fig 11.1 Photo of Liquid Height for Head SAR

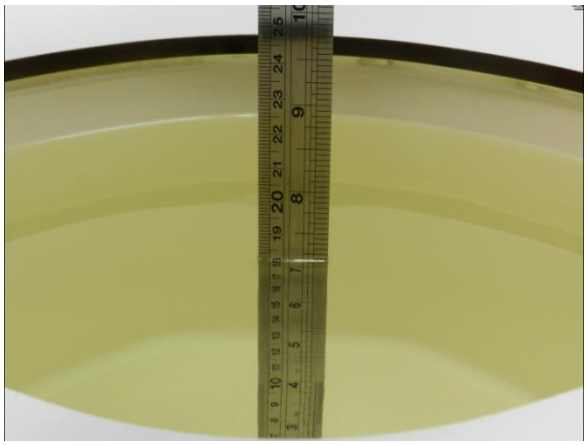


Fig 11.2 Photo of Liquid Height for Body SAR

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 (εr)
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. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.2	0.881	40.783	0.89	41.90	-1.01	-2.67	±5	2021/12/22
750	Head	22.4	0.886	41.534	0.89	41.90	-0.45	-0.87	±5	2022/1/14
835	Head	22.5	0.930	41.276	0.90	41.50	3.33	-0.54	±5	2021/12/24
835	Head	22.6	0.875	40.675	0.90	41.50	-2.78	-1.99	±5	2022/1/16
1750	Head	22.6	1.380	40.206	1.37	40.10	0.73	0.26	±5	2021/12/26
1750	Head	22.7	1.394	39.966	1.37	40.10	1.75	-0.33	±5	2022/1/2
1750	Head	22.7	1.382	41.560	1.37	40.10	0.88	3.64	±5	2022/1/24
1900	Head	22.8	1.413	41.128	1.40	40.00	0.93	2.82	±5	2021/12/28
1900	Head	22.4	1.455	39.186	1.40	40.00	3.93	-2.04	±5	2022/1/10
1900	Head	22.8	1.460	40.394	1.40	40.00	4.29	0.98	±5	2022/1/26
2300	Head	22.3	1.736	40.425	1.67	39.50	3.95	2.34	±5	2021/12/18
2300	Head	22.6	1.698	38.614	1.67	39.50	1.68	-2.24	±5	2022/1/9
2450	Head	22.3	1.810	37.626	1.80	39.20	0.56	-4.02	±5	2022/1/3
2450	Head	22.8	1.829	38.235	1.80	39.20	1.61	-2.46	±5	2022/1/8
2600	Head	22.6	1.998	37.695	1.96	39.00	1.94	-3.35	±5	2022/1/1
2600	Head	22.8	1.934	37.625	1.96	39.00	-1.33	-3.53	±5	2022/1/8
2600	Head	22.7	1.944	37.195	1.96	39.00	-0.82	-4.63	±5	2022/1/28
3500	Head	22.3	2.981	39.226	2.91	37.90	2.44	3.50	±5	2022/1/4
3500	Head	22.2	2.909	38.635	2.91	37.90	-0.03	1.94	±5	2022/1/13
3500	Head	22.4	2.878	39.142	2.91	37.90	-1.10	3.28	±5	2022/1/20
3700	Head	22.7	3.140	38.965	3.12	37.70	0.64	3.36	±5	2022/1/5
3700	Head	22.3	3.054	38.374	3.12	37.70	-2.12	1.79	±5	2022/1/12
3700	Head	22.9	3.032	38.926	3.12	37.70	-2.82	3.25	±5	2022/1/21
3900	Head	22.6	3.312	38.760	3.33	37.51	-0.54	3.33	±5	2022/1/6
3900	Head	22.8	3.199	38.142	3.33	37.51	-3.93	1.68	±5	2022/1/11
3900	Head	22.9	3.202	38.722	3.33	37.51	-3.84	3.23	±5	2022/1/22
5250	Head	22.5	4.714	36.412	4.71	35.95	0.08	1.29	±5	2021/12/19
5250	Head	22.3	4.565	35.648	4.71	35.95	-3.08	-0.84	±5	2022/1/10
5600	Head	22.5	5.141	35.813	5.07	35.50	1.40	0.88	±5	2021/12/20
5600	Head	22.5	4.948	35.040	5.07	35.50	-2.41	-1.30	±5	2022/1/11
5750	Head	22.2	5.315	35.552	5.22	35.35	1.82	0.57	±5	2021/12/21
5750	Head	22.5	5.100	34.773	5.22	35.35	-2.30	-1.63	±5	2022/1/12

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 (%)
2021/12/22	750	Head	250	1087	3191	910	1.98	8.36	7.92	-5.26
2022/1/14	750	Head	250	1087	7577	910	1.99	8.36	7.96	-4.78
2021/12/24	835	Head	250	4d258	3191	910	2.43	9.44	9.72	2.97
2022/1/16	835	Head	250	4d258	7577	910	2.30	9.44	9.2	-2.54
2021/12/26	1750	Head	250	1090	3191	910	8.74	36.40	34.96	-3.96
2022/1/2	1750	Head	250	1090	7577	910	8.73	36.40	34.92	-4.07
2022/1/24	1750	Head	250	1090	7577	910	9.32	36.40	37.28	2.42
2021/12/28	1900	Head	250	5d170	3191	910	9.63	39.00	38.52	-1.23
2022/1/10	1900	Head	250	5d170	7577	910	10.40	39.00	41.6	6.67
2022/1/26	1900	Head	250	5d170	7577	910	10.30	39.00	41.2	5.64
2021/12/18	2300	Head	250	1056	7576	1437	13.30	48.80	53.2	9.02
2022/1/9	2300	Head	250	1056	7576	1437	13.10	48.80	52.4	7.38
2022/1/3	2450	Head	250	924	3191	910	12.80	51.40	51.2	-0.39
2022/1/8	2450	Head	250	924	7577	910	12.90	51.40	51.6	0.39
2022/1/1	2600	Head	250	1061	3191	910	13.90	56.60	55.6	-1.77
2022/1/8	2600	Head	250	1061	7577	910	14.50	56.60	58	2.47
2022/1/28	2600	Head	250	1061	7577	910	13.20	56.60	52.8	-6.71
2022/1/4	3500	Head	100	1076	7577	910	6.59	67.90	65.9	-2.95
2022/1/13	3500	Head	100	1076	7577	910	6.98	67.90	69.8	2.80
2022/1/20	3500	Head	100	1076	7577	910	7.01	67.90	70.1	3.24
2022/1/5	3700	Head	100	1037	7577	910	7.16	68.50	71.6	4.53
2022/1/12	3700	Head	100	1037	7577	910	6.97	68.50	69.7	1.75
2022/1/21	3700	Head	100	1037	7577	910	6.45	68.50	64.5	-5.84
2022/1/6	3900	Head	100	1022	7577	910	6.57	70.50	65.7	-6.81
2022/1/11	3900	Head	100	1022	7577	910	6.63	70.50	66.3	-5.96
2022/1/22	3900	Head	100	1022	7577	910	6.36	70.50	63.6	-9.79
2021/12/19	5250	Head	100	1113	7576	1437	7.52	80.50	75.2	-6.58
2022/1/10	5250	Head	100	1113	7576	1437	7.35	80.50	73.5	-8.70
2021/12/20	5600	Head	100	1113	7576	1437	7.91	83.40	79.1	-5.16
2022/1/11	5600	Head	100	1113	7576	1437	7.61	83.40	76.1	-8.75
2021/12/21	5750	Head	100	1113	7576	1437	7.48	80.00	74.8	-6.50
2022/1/12	5750	Head	100	1113	7576	1437	8.02	80.00	80.2	0.25

<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 (%)
2021/12/22	750	Head	250	1087	3191	910	1.31	5.65	5.24	-7.26
2022/1/14	750	Head	250	1087	7577	910	1.32	5.65	5.28	-6.55
2021/12/24	835	Head	250	4d258	3191	910	1.59	6.13	6.36	3.75
2022/1/16	835	Head	250	4d258	7577	910	1.51	6.13	6.04	-1.47
2021/12/26	1750	Head	250	1090	3191	910	4.74	19.20	18.96	-1.25
2022/1/2	1750	Head	250	1090	7577	910	4.74	19.20	18.96	-1.25
2022/1/24	1750	Head	250	1090	7577	910	5.08	19.20	20.32	5.83
2021/12/28	1900	Head	250	5d170	3191	910	4.99	20.30	19.96	-1.67
2022/1/10	1900	Head	250	5d170	7577	910	5.31	20.30	21.24	4.63
2022/1/26	1900	Head	250	5d170	7577	910	5.39	20.30	21.56	6.21
2021/12/18	2300	Head	250	1056	7576	1437	6.23	22.80	24.92	9.30
2022/1/9	2300	Head	250	1056	7576	1437	6.02	22.80	24.08	5.61
2022/1/3	2450	Head	250	924	3191	910	5.94	24.00	23.76	-1.00
2022/1/8	2450	Head	250	924	7577	910	6.00	24.00	24	0.00
2022/1/1	2600	Head	250	1061	3191	910	6.23	25.10	24.92	-0.72
2022/1/8	2600	Head	250	1061	7577	910	6.30	25.10	25.2	0.40
2022/1/28	2600	Head	250	1061	7577	910	5.83	25.10	23.32	-7.09
2022/1/4	3500	Head	100	1076	7577	910	2.53	25.30	25.3	0.00
2022/1/13	3500	Head	100	1076	7577	910	2.62	25.30	26.2	3.56
2022/1/20	3500	Head	100	1076	7577	910	2.69	25.30	26.9	6.32
2022/1/5	3700	Head	100	1037	7577	910	2.61	24.80	26.1	5.24
2022/1/12	3700	Head	100	1037	7577	910	2.54	24.80	25.4	2.42
2022/1/21	3700	Head	100	1037	7577	910	2.40	24.80	24	-3.23
2022/1/6	3900	Head	100	1022	7577	910	2.37	24.60	23.7	-3.66
2022/1/11	3900	Head	100	1022	7577	910	2.41	24.60	24.1	-2.03
2022/1/22	3900	Head	100	1022	7577	910	2.23	24.60	22.3	-9.35
2021/12/19	5250	Head	100	1113	7576	1437	2.16	23.10	21.6	-6.49
2022/1/10	5250	Head	100	1113	7576	1437	2.13	23.10	21.3	-7.79
2021/12/20	5600	Head	100	1113	7576	1437	2.16	23.80	21.6	-9.24
2022/1/11	5600	Head	100	1113	7576	1437	2.32	23.80	23.2	-2.52
2021/12/21	5750	Head	100	1113	7576	1437	2.22	22.80	22.2	-2.63
2022/1/12	5750	Head	100	1113	7576	1437	2.34	22.80	23.4	2.63

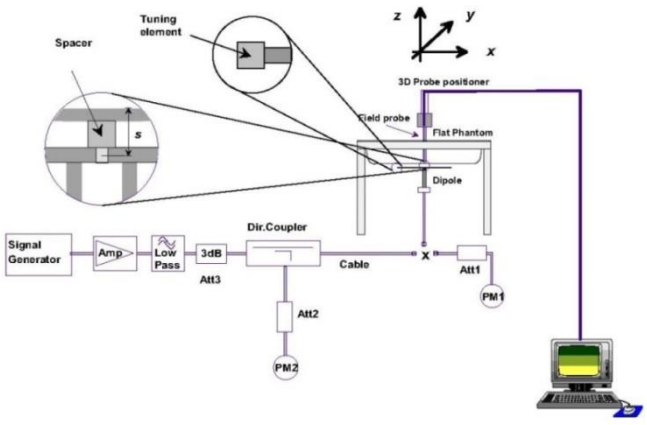


Fig 11.3.1 System Performance Check Setup

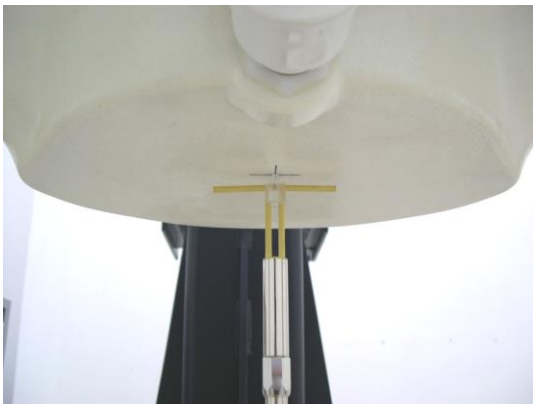


Fig 11.3.2 Setup Photo

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.

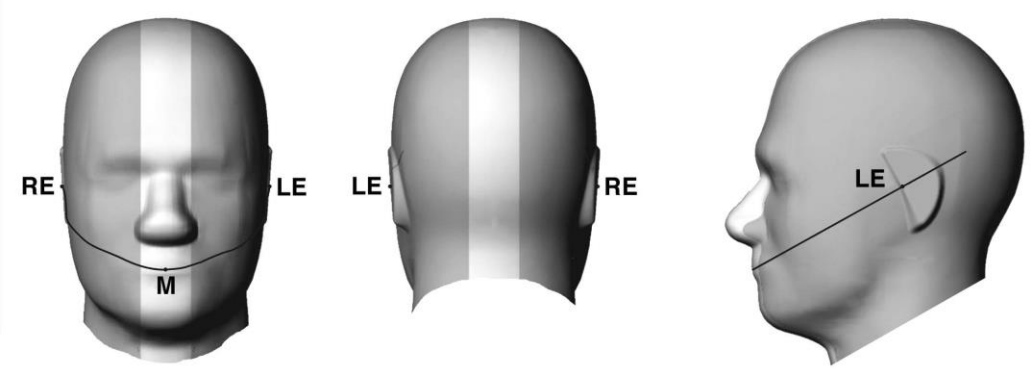


Fig 12.1.1 Front, back, and side views of SAM twin phantom

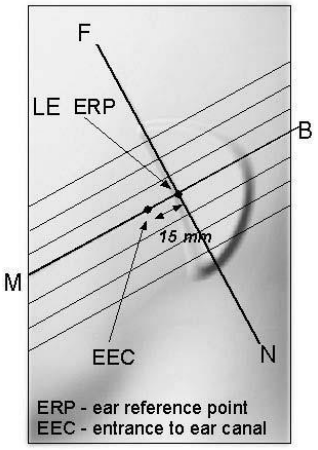


Fig 12.1.2 Close-up side view of phantom showing the ear region.

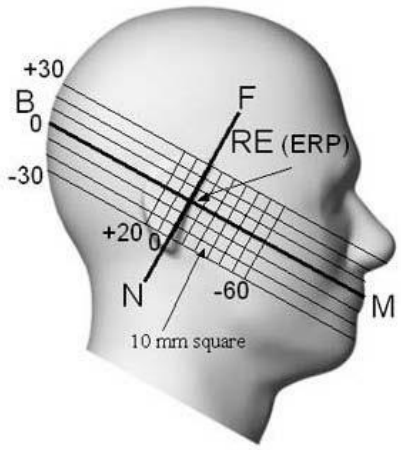


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 wt 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 wb 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.

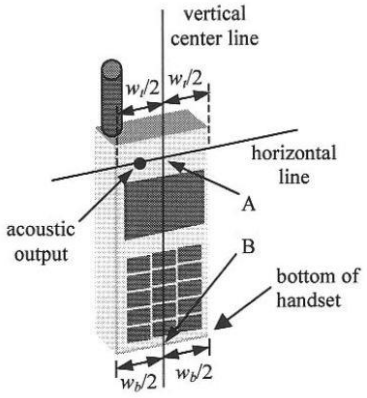


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

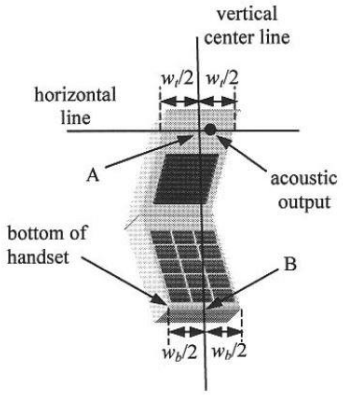


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

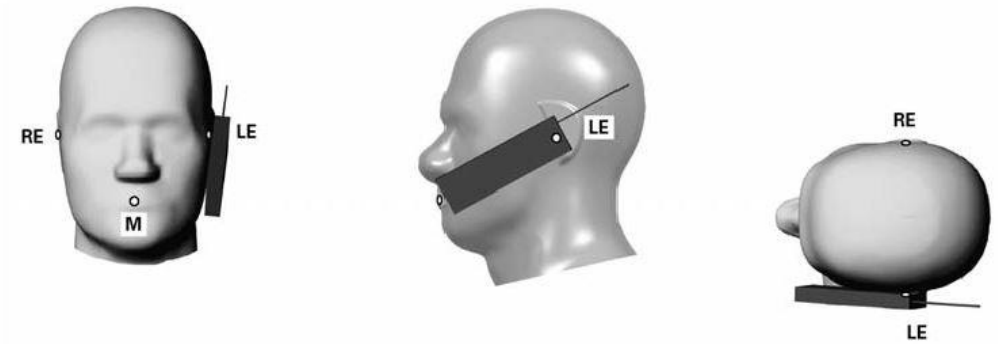


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

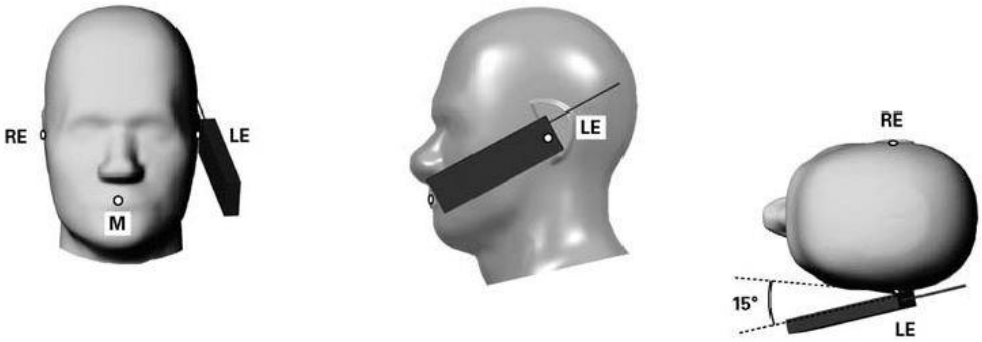


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 12.4). 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 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 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-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

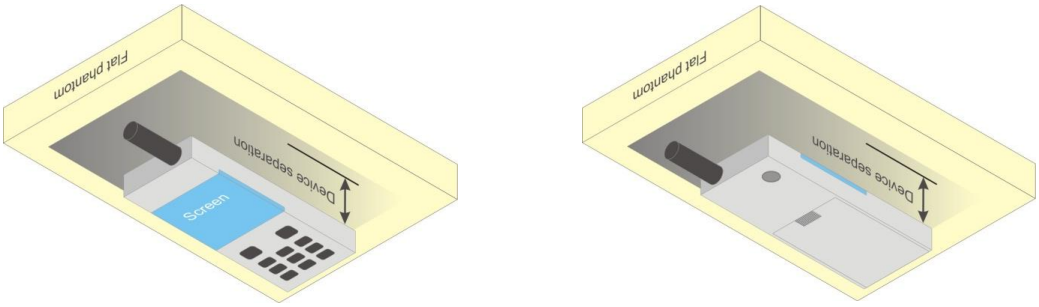


Fig 12.4 Body Worn Position

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

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.

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

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 x W ≥ 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 form 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 ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Conducted Power>

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

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} (Note1, 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

Setup Configuration

HSUPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	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	209/225	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	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 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 Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_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 β_c = 10/15 and β_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 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: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_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	Proces ses	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

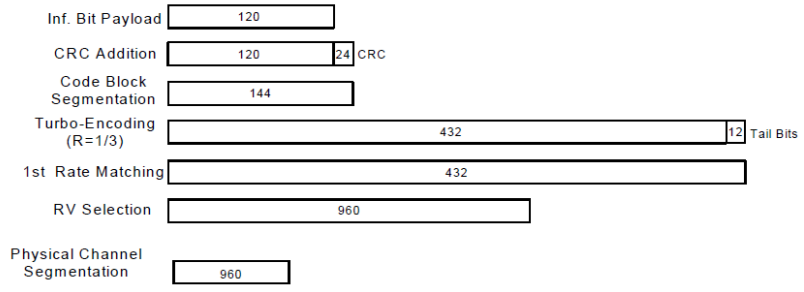


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<WCDMA Conducted Power>

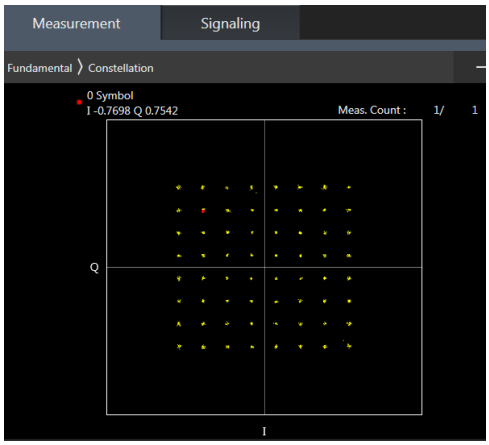
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

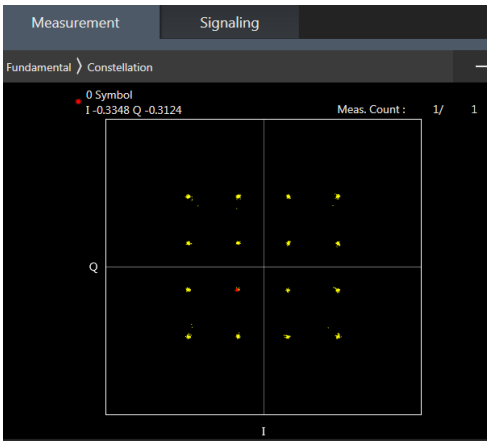
<LTE Conducted Power>

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 ½ 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 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; 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 ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM

<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.

a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
b. "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
c. 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.

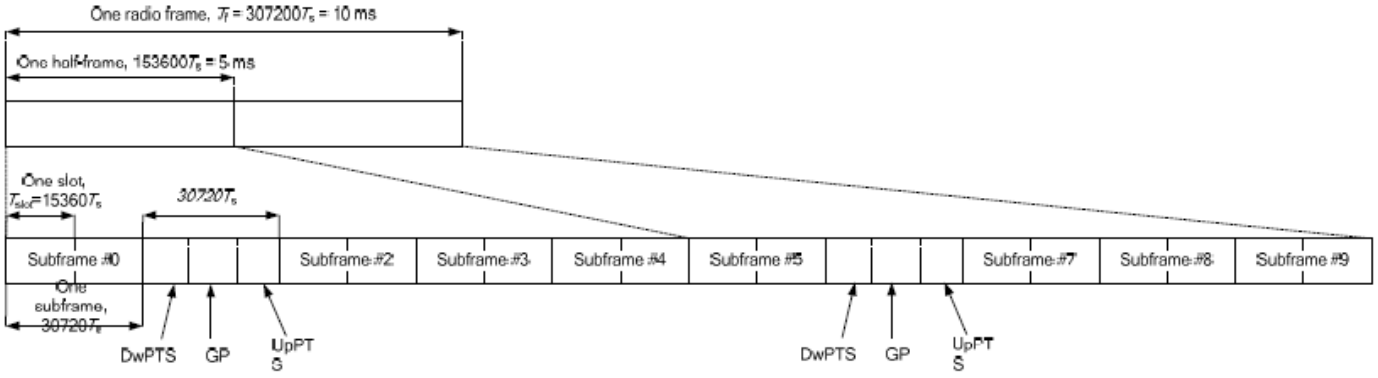


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
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 Band 41 Power class 2

i. Uplink-downlink configuration: 1. In a half-frame consisted of 5 subfames, uplink operation is in 2 uplink subframes and 1 special subframe.
ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (2+0.167)/5 = 43.3%
iv. 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%
v. 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 Band 41 Power class 3

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.
ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.167)/5 = 63.3%
iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.143)/5 = 62.9%
v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

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>

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.
4. The gray color table is covered by other combinations and no need to verify power.

2CC Downlink Carrier Aggregation					3CC Downlink Carrier Aggregation					4CC Downlink Carrier Aggregation				
Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset
1	CA_2A-2A	2A		3CC-1	1	CA_2A-2A-4A	2A,4A		4CC-1	1	CA_2A-2A-4A-4A			
2	CA_2A-4A	2A,4A		3CC-1	2	CA_2A-2A-5A	2A		4CC-5	2	CA_2A-2A-4A-5A			
3	CA_2A-5A	2A		3CC-2	3	CA_2A-2A-7A	2A,7A			3	CA_2A-2A-4A-12A			
4	CA_2A-7A	2A,7A		3CC-3	4	CA_2A-2A-12A	2A		4CC-6	4	CA_2A-2A-4A-71A			
5	CA_2A-12A	2A		3CC-4	5	CA_2A-2A-13A	2A		4CC-7	5	CA_2A-2A-5A-66A			
6	CA_2A-13A	2A		3CC-5	6	CA_2A-2A-14A	2A		4CC-8	6	CA_2A-2A-12A-66A			
7	CA_2A-14A	2A		3CC-6	7	CA_2A-2A-29A	2A	B29 SCC Only		7	CA_2A-2A-13A-66A			
8	CA_2A-29A	2A	B29 SCC Only	3CC-7	8	CA_2A-2A-30A	2A,30A			8	CA_2A-2A-14A-30A			
9	CA_2A-30A	2A,30A		3CC-8	9	CA_2A-2A-66A	2A,66A		4CC-9	9	CA_2A-2A-66A-66A			
10	CA_2A-48A	2A,48A		3CC-21	10	CA_2A-2A-71A	2A			10	CA_2A-2A-66A-71A			
11	CA_2A-66A	2A,66A		3CC-9	11	CA_2A-4A-4A	2A,4A		4CC-11	11	CA_2A-4A-4A-5A			
12	CA_2A-71A	2A		3CC-10	12	CA_2A-4A-5A	2A,4A		4CC-2	12	CA_2A-4A-4A-12A			
13	CA_2C	2C		3CC-46	13	CA_2A-4A-7A	4A		4CC-13	13	CA_2A-4A-7A-7A			
14	CA_4A-4A	4A		3CC-47	14	CA_2A-4A-12A	2A,4A		4CC-3	14	CA_2A-5A-66A-66A			
15	CA_4A-5A	4A		3CC-53	15	CA_2A-4A-13A	2A,4A			15	CA_2A-7A-7A-13A			
16	CA_4A-7A	4A,7A		3CC-54	16	CA_2A-4A-29A	2A,4A	B29 SCC Only		16	CA_2A-7A-7A-66A			
17	CA_4A-12A	4A,		3CC-48	17	CA_2A-4A-30A	2A			17	CA_2A-7A-66A-66A			
18	CA_4A-13A	4A		3CC-49	18	CA_2A-4A-71A	2A,4A		4CC-4	18	CA_2A-12A-66A-66A			
19	CA_4A-17A	4A			19	CA_2A-5A-7A	2A,7A			19	CA_2A-13A-66A-66A			
20	CA_4A-29A	4A	B29 SCC Only	3CC-57	20	CA_2A-5A-30A	2A,30A			20	CA_2A-66A-66A-71A			
21	CA_4A-30A	4A,30A		3CC-51	21	CA_2A-5A-48A	2A, 48A			21	CA_2A-2A-5B			
22	CA_4A-48A	4A,48A			22	CA_2A-5A-66A	2A, 66A		4CC-14	22	CA_2A-2A-12B			
23	CA_4A-71A	4A		3CC-52	23	CA_2A-7A-7A	2A,7A		4CC-15	23	CA_2A-2A-66B			
24	CA_5A-5A			3CC-62	24	CA_2A-7A-12A	2A,7A			24	CA_2A-4A-5B			
25	CA_5A-7A	7A		3CC-63	25	CA_2A-7A-13A	2A,7A			25	CA_2A-4A-12B			
26	CA_5A-30A	30A		3CC-65	26	CA_2A-7A-66A	66A		4CC-17	26	CA_2A-5A-66B			
27	CA_5A-48A	48A		3CC-66	27	CA_2A-12A-30A	2A, 30A			27	CA_2A-13A-66B			
28	CA_5A-66A	66A		3CC-67	28	CA_2A-12A-66A	2A,66A		4CC-18	28	CA_2A-66A-66B			
29	CA_5B			3CC-71	29	CA_2A-13A-48A	2A ,48A			29	CA_2A-2A-66C			
30	CA_7A-7A	7A		3CC-73	30	CA_2A-13A-66A	2A, 66A		4CC-19	30	CA_2A-4A-7C			
31	CA_7A-12A	7A		3CC-74	31	CA_2A-14A-30A	2A, 30A		4CC-8	31	CA_2A-5A-48C			
32	CA_7A-13A	7A			32	CA_2A-14A-66A	2A, 66A			32	CA_2A-5A-66C			
33	CA_7A-29A	7A	B29 SCC Only		33	CA_2A-29A-30A	2A, 30A			33	CA_2A-12A-66C			
34	CA_7B	7B			34	CA_2A-29A-66A	2A, 66A			34	CA_2A-13A-48C			
35	CA_7C	7C		3CC-76	35	CA_2A-30A-66A	66A			35	CA_2A-13A-66C			
36	CA_12A-30A	30A		3CC-77	36	CA_2A-48A-48A	2A,48A			36	CA_2A-48A-48C			
37	CA_12A-66A	66A		3CC-78	37	CA_2A-48A-66A	2A,48A,66A			37	CA_2A-5B-66A			
38	CA_12B			3CC-80	38	CA_2A-66A-66A	2A,66A		4CC-9	38	CA_2A-12B-66A			
39	CA_13A-48A	48A			39	CA_2A-66A-71A	2A,66A		4CC-10	39	CA_2A-7C-13A			
40	CA_13A-66A	66A		3CC-81	40	CA_2A-5B	2A		4CC-37	40	CA_2A-7C-66A			
41	CA_14A-30A	30A		3CC-84	41	CA_2A-12B	2A		4CC-38	41	CA_2A-48C-66A			
42	CA_14A-66A	66A		3CC-85	42	CA_2A-66B	2A		4CC-23	42	CA_2A-66C-71A			
43	CA_25A-25A	25A		3CC-86	43	CA_2A-7C	2A		4CC-40	43	CA_2A-48D			

44	CA_25A-26A	25A,			44	CA_2A-48C	2A		4CC-41	44	CA_2C-66A-66A			
45	CA_25A-41A	25A,41A			45	CA_2A-66C	2A		4CC-42	45	CA_4A-4A-5B			
46	CA_26A-41A	41A			46	CA_2C-66A	66A		4CC-44	46	CA_4A-4A-12B			
47	CA_29A-30A	30A	B29 SCC Only	3CC-89	47	CA_4A-4A-5A	4A		4CC-11	47	CA_4A-48D			
48	CA_29A-66A	66A	B29 SCC Only	3CC-90	48	CA_4A-4A-12A	4A		4CC-12	48	CA_5A-5A-66A-66A			
49	CA_30A-66A	30A,66A		3CC-91	49	CA_4A-4A-13A	4A			49	CA_5A-7A-66A-66A			
50	CA_41A-41A	41A			50	CA_4A-4A-29A		B29 SCC Only		50	CA_5A-5A-66B			
51	CA_41C	41C			51	CA_4A-4A-30A	4A,30A			51	CA_5A-5A-66C			
52	CA_48A-48A	48A		3CC-94	52	CA_4A-4A-71A	4A			52	CA_5A-48D			
53	CA_48A-66A	48A,66A		3CC-95	53	CA_4A-5A-30A	4A,30A			53	CA_5A-7C-66A			
54	CA_48A-71A	48A		3CC-96	54	CA_4A-7A-7A	4A,7A		4CC-13	54	CA_5A-48C-66A			
55	CA_48B	48B			55	CA_4A-7A-12A	4A,7A			55	CA_5B-66A-66A			
56	CA_48C	48C		3CC-101	56	CA_4A-12A-30A	4A,30A			56	CA_5B-66B			
57	CA_66A-66A	66A,66A		3CC-104	57	CA_4A-29A-30A	4A ,30A			57	CA_5B-66C			
58	CA_66A-71A	66A		3CC-105	58	CA_4A-5B	4A		4CC-45	58	CA_7A-12A-66A-66A			
59	CA_66B	66B			59	CA_4A-12B	4A		4CC-46	59	CA_7C-66A-66A			
60	CA_66C	66C		3CC-108	60	CA_4A-7C	4A		4CC-30	60	CA_12B-66A-66A			
61	CA_7A-66A	7A,66A		3CC-64	61	CA_4A-48C	4A			61	CA_13A-48A-66B			
					62	CA_5A-5A-66A	66A		4CC-48	62	CA_13A-66A-66B			
					63	CA_5A-7A-7A	7A		4CC-53	63	CA_13A-48A-48C			
					64	CA_5A-7A-66A	7A,66A		4CC-49	64	CA_13A-48A-66C			
					65	CA_5A-30A-66A	30A,66A			65	CA_13A-48C-66A			
					66	CA_5A-48A-66A	48A,66A			66	CA_13A-48D			
					67	CA_5A-66A-66A	66A		4CC-48	67	CA_25A-41D			
					68	CA_5A-66B			4CC-26	68	CA_48A-48A-66A-66A			
					69	CA_5A-7C			4CC-53	69	CA_48A-48A-66B			
					70	CA_5A-48C			4CC-54	70	CA_48A-48A-66C			
					71	CA_5A-66C			4CC-32	71	CA_48A-48C-66A			
					72	CA_5B-66A	66A		4CC-55	72	CA_48A-48D			
					73	CA_7A-7A-66A	7A,66A		4CC-16	73	CA_48C-66A-66A			
					74	CA_7A-12A-66A	7A,66A		4CC-58	74	CA_48C-66B			
					75	CA_7A-66A-66A	7A,66A		4CC-17	75	CA_48C-48C			
					76	CA_7C-66A	66A		4CC-59	76	CA_48C-66C			
					77	CA_12A-30A-66A	30A,66A			77	CA_48D-66A			
					78	CA_12A-66A-66A	66A		4CC-58	78	CA_48E			
					79	CA_12A-66C			4CC-33					
					80	CA_12B-66A	66A		4CC-60					
					81	CA_13A-66A-66A	66A		4CC-19					
					82	CA_13A-66B			4CC-26					
					83	CA_13A-66C			4CC-35					
					84	CA_14A-30A-66A	30A,66A							
					85	CA_14A-66A-66A	66A							
					86	CA_25A-25A-26A	25A							
					87	CA_25A-41C	25A							
					88	CA_26A-41C								
					89	CA_29A-30A-66A	30A,66A							
					90	CA_29A-66A-66A	66A							
					91	CA_30A-66A-66A	30A,66A							
					92	CA_41A-41C	41A							
					93	CA_41D	41A		4CC-67					
					94	CA_48A-48A-48A	48A							
					95	CA_48A-48A-66A	48A,66A		4CC-68					
					96	CA_48A-48A-71A	48A							
					97	CA_48A-66A-66A	48A,66A		4CC-68					
					98	CA_48A-66B	48A		4CC-61					
					99	CA_48A-48C	48A		4CC-36					

					100	CA_48A-66C	48A								
					101	CA_48C-66A	66A		4CC-73						
					102	CA_48C-71A									
					103	CA_48D	48A		4CC-77						
					104	CA_66A-66A-66A	66A								
					105	CA_66A-66A-71A	66A		4CC-20						
					106	CA_66A-66B	66A		4CC-28						
					107	CA_66A-66C	66A								
					108	CA_66C-71A			4CC-42						

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 four 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.

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Bands 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)

2CC Uplink Carrier Aggregation		
Number	Combination	Ant No.
1	CA_5B	ANT1/2
2	CA_41C	ANT7/8
3	CA_48C	ANT4
4	CA_66B	ANT1/2
5	CA_66C	ANT1/2

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B41/48/66/5 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.

ii. 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.

iii. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

iv. Additional SAR measurement for LTE UL CA whit 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.

v. LTE CA_66B test was covered by CA_66C; therefore, SAR was only assessed for CA_66C.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Combination	Band&Ant No.	Band&Ant No.
CA_2A-4A	LTE B2: ANT1/2	LTE B4: ANT2/1
CA_2A-5A	LTE B2: ANT1/2	LTE B5: ANT2/1
CA_2A-12A	LTE B2: ANT1/2	LTE B12: ANT2/1
CA_2A-13A	LTE B2: ANT1/2	LTE B13: ANT2/1
CA_2A-66A	LTE B2: ANT1/2	LTE B66: ANT2/1
CA_4A-5A	LTE B4: ANT1/2	LTE B5: ANT2/1
CA_4A-12A	LTE B4: ANT1/2	LTE B12: ANT2/1
CA_4A-13A	LTE B4: ANT1/2	LTE B13: ANT2/1
CA_5A-66A	LTE B5: ANT2/1	LTE B66: ANT1/2
CA_12A-66A	LTE B12: ANT2/1	LTE B66: ANT1/2
CA_13A-66A	LTE B13: ANT2/1	LTE B66: ANT1/2

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 Qualcomm Smart Transmit 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 ≤ 6GHz). 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, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. Smart Transmit 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 / n12 / n25 / n30 / n66 / n71 / n41 / n77 / n78 is NSA mode.
2. 5G NR n2 / n5 / n12 / n14 / n25 / n26 / n30 / n66 / n70 / n71 / n41 / 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 PI/2 BPSK and the reported SAR for the DFT-s PI/2 BPSK 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 PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
   d. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure
   e. PI/2 BPSK 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. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
   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. 5G NR n41/n77 supports HPUE, HPUE power and SAR testing performed separately.
5. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
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. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR 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.

<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	≤ 3.5[1]	≤ 1.2[1]	≤ 0.2[1]
		≤ 0.5[2]	≤ 0.5[2]	0[2]
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	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		

FR1	EN-DC	4G UL	5G-NR UL	4G UL	5G-NR UL
n2	DC_5A_n2A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_7A_n2A	Ant 7	Ant 2		
	DC_12A_n2A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_13A_n2A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_14A_n2A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_30A_n2A	Ant 7	Ant 2	Ant 8	Ant 1
	DC_66A_n2A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_71A_n2A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_48A_n2A	Ant 4	Ant 1		
n5	DC_2A_n5A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_7A_n5A	Ant 7	Ant 2		
	DC_30A_n5A	Ant 7	Ant 2	Ant 8	Ant 1
	DC_66A_n5A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_48A_n5A	Ant 4	Ant 1		
n12	DC_2A_n12A	Ant 1	Ant 2		
	DC_66A_n12A	Ant 1	Ant 2		
n25	DC_2A_n25A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_12A_n25A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_66A_n25A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_48A_n25A	Ant 4	Ant 1		
n30	DC_2A_n30A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_5A_n30A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_12A_n30A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_14A_n30A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_66A_n30A	Ant 1	Ant 8	Ant 2	Ant 7
n41	DC_2A_n41A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_4A_n41A	Ant 1	Ant 8	Ant 2	Ant 7

	DC_12A_n41A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_25A_n41A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_26A_n41A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_66A_n41A	Ant 1	Ant 8	Ant 2	Ant 7
	DC_71A_n41A	Ant 1	Ant 8	Ant 2	Ant 7
n66	DC_2A_n66A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_5A_n66A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_7A_n66A	Ant 7	Ant 2		
	DC_12A_n66A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_13A_n66A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_14A_n66A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_30A_n66A	Ant 7	Ant 2	Ant 8	Ant 1
	DC_71A_n66A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_48A_n66A	Ant 4	Ant 1		
n71	DC_2A_n71A	Ant 1	Ant 2	Ant 2	Ant 1
	DC_7A_n71A	Ant 7	Ant 2		
	DC_66A_n71A	Ant 1	Ant 2	Ant 2	Ant 1
n77	DC_2A_n77A	Ant 1	Ant 4		
	DC_5A_n77A	Ant 1	Ant 4		
	DC_7A_n77A	Ant 7	Ant 4		
	DC_12A_n77A	Ant 1	Ant 4		
	DC_13A_n77A	Ant 1	Ant 4		
	DC_14A_n77A	Ant 1	Ant 4		
	DC_66A_n77A	Ant 1	Ant 4		
n78	DC_2A_n78A	Ant 1	Ant 4		
	DC_5A_n78A	Ant 1	Ant 4		
	DC_7A_n78A	Ant 1	Ant 4		
	DC_12A_n78A	Ant 1	Ant 4		
	DC_13A_n78A	Ant 1	Ant 4		
	DC_66A_n78A	Ant 1	Ant 4		
	DC_71A_n78A	Ant 1	Ant 4		

<WLAN Conducted Power>

General Note:

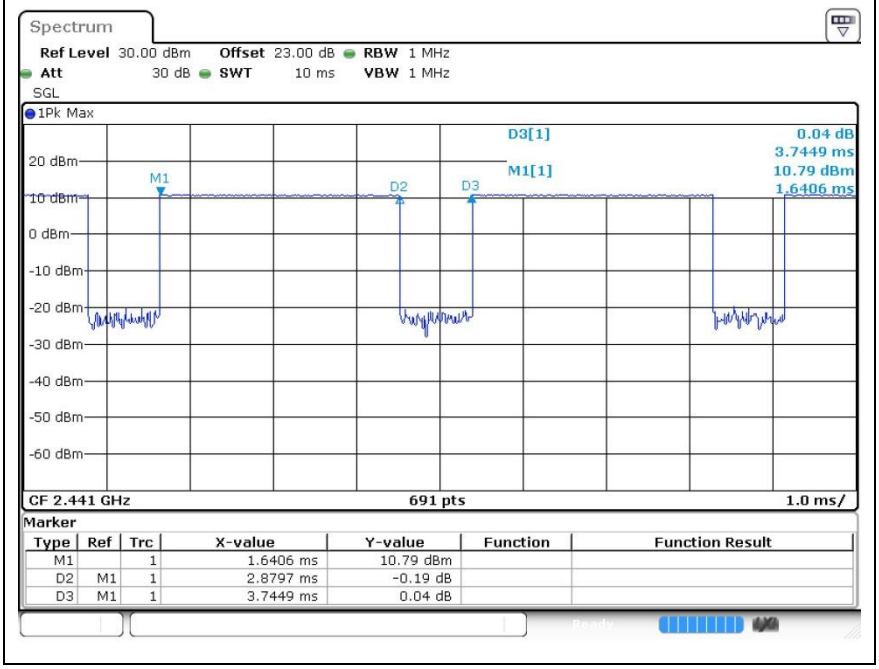
1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. 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.
2. 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).
3. 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.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
   a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
   b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
   c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

<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 76.90 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation

Bluetooth time-domain plot



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 BT/WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
   c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
   e. 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.
   f. 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 ≥ 0.8W/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 Qualcomm smart transmit 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. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head and Handheld. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn.
6. For some WWAN bands, sensor on reduced power level is higher than hotspot reduced power level, so front/back sensor on SAR can represent hotspot conservatively.
7. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the WCDMA, LTE and 5GNR modes. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner and supplemental data for additional information can be referred to section 18 and appendix F.
8. LTE band 41 and 5G NR n41/n77 supports HPUE, HPUE power and SAR testing performed separately.
9. 5GNR n41/n77 HUPE with higher power, 5GNR n41/n77 HUPE SAR can represent power class 3 level SAR.
10. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
11. 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.
12. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
13. 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.
14. 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.

15. This device supports 5GNR FR1 bands, including NSA mode and SA mode. NSA and SA mode performed SAR separately.
16. 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 2/4/5/7/25/26/30/66/38/41/48, 5GNR n2/n25/n30/n66/n70/n41/n77/n78, WLAN5.2GHz/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.
17. The mark “(Sim)“ in the test result means that simultaneous transmit.

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 ≤ ¼ 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 is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ 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 > 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; 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 LTE 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 ≤ 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 PI/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
   b. 50% RB allocation for PI/2 BPSK SAR testing follows 1RB PI/2 BPSK allocation procedure.
   c. PI/2 BPSK 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. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in PI/2 BPSK, also reported SAR for the PI/2 BPSK configuration is less than 1.45 W/kg, QPSK /16QAM /64QAM/256QAM SAR testing are not required.
   e. 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
   f. For 5G FR1 n5/n12/n25/n26/n41/n66/n71/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.

DSI status description：

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

This WWAN bands enabled with Qualcomm Smart Transmit 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	DSI
Head SAR-Standalone	DSI 2
Head SAR-Simultaneous	DSI 2
Body worn Mode SAR-Standalone	DSI 3
Body worn Mode SAR- Simultaneous	DSI 3
Hotspot Mode SAR	DSI 3
Extremity(Handheld) SAR-Standalone	DSI 6
Extremity(Handheld) SAR- Simultaneous	DSI 6
Sensor off SAR	DSI 4

16.1 Head SAR

<GSM SAR>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2 / Full	128	824.2	28.37	30.00	1.455	0.15	0.195	0.284
	GSM850	GPRS 4 Tx slots	Right Tilted	0mm	Ant 1	DSI2 / Full	128	824.2	28.37	30.00	1.455	-0.15	0.102	0.148
	GSM850	GPRS 4 Tx slots	Left Cheek	0mm	Ant 1	DSI2 / Full	128	824.2	28.37	30.00	1.455	-0.02	0.148	0.215
	GSM850	GPRS 4 Tx slots	Left Tilted	0mm	Ant 1	DSI2 / Full	128	824.2	28.37	30.00	1.455	0.19	0.088	0.128
	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2 / Full	189	836.4	28.12	30.00	1.542	-0.13	0.201	0.310
01	GSM850	GPRS 4 Tx slots	Right Cheek	0mm	Ant 1	DSI2 / Full	251	848.8	28.22	30.00	1.507	0.05	0.240	**0.362**
	GSM1900	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI2 / Full	810	1909.8	27.28	28.00	1.180	-0.15	0.073	0.086
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI2 / Full	810	1909.8	27.28	28.00	1.180	-0.08	0.048	0.057
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI2 / Full	810	1909.8	27.28	28.00	1.180	-0.16	0.074	0.087
	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 1	DSI2 / Full	810	1909.8	27.28	28.00	1.180	0.05	0.058	0.068
02	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI2 / Full	512	1850.2	26.80	28.00	1.318	0.19	0.072	**0.095**
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI2 / Full	661	1880	26.87	28.00	1.297	0.07	0.067	0.087

<WCDMA SAR>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	4132	826.4	23.26	24.00	1.186	0.19	0.205	0.243
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2 / Full	4132	826.4	23.26	24.00	1.186	-0.03	0.101	0.120
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2 / Full	4132	826.4	23.26	24.00	1.186	0.12	0.177	0.210
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI2 / Full	4132	826.4	23.26	24.00	1.186	0.17	0.080	0.095
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	4182	836.4	23.13	24.00	1.222	-0.1	0.204	0.249
03	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	4233	846.6	23.05	24.00	1.245	0.02	0.224	**0.279**
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	1513	1752.6	23.40	24.00	1.148	0.13	0.138	0.158
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2 / Full	1513	1752.6	23.40	24.00	1.148	-0.09	0.046	0.053
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2 / Full	1513	1752.6	23.40	24.00	1.148	0.02	0.087	0.100
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI2 / Full	1513	1752.6	23.40	24.00	1.148	0.08	0.052	0.060
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	1312	1712.4	23.24	24.00	1.191	0.18	0.166	**0.198**
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	1413	1732.6	23.08	24.00	1.236	-0.17	0.145	0.179
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI2 / Full	9262	1852.4	23.36	24.00	1.159	-0.15	0.118	0.137
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI2 / Full	9262	1852.4	23.36	24.00	1.159	-0.18	0.077	0.089
05	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2 / Full	9262	1852.4	23.36	24.00	1.159	0.13	0.123	**0.143**
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI2 / Full	9262	1852.4	23.36	24.00	1.159	0.09	0.088	0.102
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2 / Full	9400	1880	23.27	24.00	1.183	-0.11	0.115	0.136
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI2 / Full	9538	1907.6	23.35	24.00	1.161	0.04	0.120	0.139

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
06	LTE Band 71	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI2 / Full	133322	683	23.18	24.00	1.208	0.05	0.796	**0.961**
	LTE Band 71	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	DSI2 / Full	133322	683	23.18	24.00	1.208	0.16	0.779	0.941
	LTE Band 71	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI2 / Full	133322	683	23.18	24.00	1.208	-0.05	0.454	0.548
	LTE Band 71	20M	QPSK	1	99	Left Tilted	0mm	Ant 2	DSI2 / Full	133322	683	23.18	24.00	1.208	-0.19	0.436	0.527
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI2 / Full	133322	683	22.36	23.00	1.159	-0.19	0.611	0.708
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI2 / Full	133322	683	22.36	23.00	1.159	0.15	0.606	0.702
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI2 / Full	133322	683	22.36	23.00	1.159	-0.07	0.368	0.426
	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI2 / Full	133322	683	22.36	23.00	1.159	0.08	0.334	0.387
	LTE Band 71	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	DSI2 / Full	133322	683	22.35	23.00	1.161	0.01	0.605	0.703
	LTE Band 71	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	DSI2 / Full	133322	683	22.35	23.00	1.161	0.13	0.596	0.692
	LTE Band 71	20M	QPSK	1	99	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.50	22.50	1.259	0.04	0.704	0.886
	LTE Band 71	20M	QPSK	1	99	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.50	22.50	1.259	-0.06	0.693	0.872
	LTE Band 71	20M	QPSK	1	99	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.50	22.50	1.259	0.06	0.401	0.505
	LTE Band 71	20M	QPSK	1	99	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.50	22.50	1.259	-0.04	0.384	0.483
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.49	22.50	1.262	0.13	0.642	0.810
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.49	22.50	1.262	-0.06	0.617	0.779
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.49	22.50	1.262	-0.06	0.356	0.449
	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.49	22.50	1.262	0.09	0.342	0.432
	LTE Band 71	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.46	22.50	1.271	0.09	0.633	0.804
	LTE Band 71	20M	QPSK	100	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	133322	683	21.46	22.50	1.271	-0.19	0.609	0.774
	LTE Band 71	20M	QPSK	1	99	Right Cheek	0mm	Ant 1	DSI2 / Full	133322	683	22.89	24.00	1.291	0.11	0.145	0.187
	LTE Band 71	20M	QPSK	1	99	Right Tilted	0mm	Ant 1	DSI2 / Full	133322	683	22.89	24.00	1.291	-0.01	0.069	0.089
	LTE Band 71	20M	QPSK	1	99	Left Cheek	0mm	Ant 1	DSI2 / Full	133322	683	22.89	24.00	1.291	-0.08	0.111	0.143
	LTE Band 71	20M	QPSK	1	99	Left Tilted	0mm	Ant 1	DSI2 / Full	133322	683	22.89	24.00	1.291	-0.17	0.068	0.088
	LTE Band 71	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2 / Full	133322	683	22.09	23.00	1.233	0.16	0.089	0.110
	LTE Band 71	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2 / Full	133322	683	22.09	23.00	1.233	0.05	0.036	0.044
	LTE Band 71	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2 / Full	133322	683	22.09	23.00	1.233	-0.07	0.066	0.081
	LTE Band 71	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2 / Full	133322	683	22.09	23.00	1.233	0.11	0.034	0.042
07	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	23095	707.5	22.56	23.50	1.242	0.05	0.842	**1.045**
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	23095	707.5	22.56	23.50	1.242	0.02	0.827	1.027
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	23095	707.5	22.56	23.50	1.242	-0.01	0.529	0.657
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	23095	707.5	22.56	23.50	1.242	0.17	0.503	0.625
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 2	DSI 2	23095	707.5	22.23	23.00	1.194	0.19	0.776	0.927
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 2	DSI 2	23095	707.5	22.23	23.00	1.194	-0.08	0.748	0.893
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 2	DSI 2	23095	707.5	22.23	23.00	1.194	0.07	0.467	0.558
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 2	DSI 2	23095	707.5	22.23	23.00	1.194	0.19	0.445	0.531
	LTE Band 12	10M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	23095	707.5	22.21	23.00	1.199	0.1	0.761	0.913
	LTE Band 12	10M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	23095	707.5	22.21	23.00	1.199	-0.18	0.733	0.879
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.15	22.00	1.216	0.01	0.717	0.872
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.15	22.00	1.216	-0.16	0.683	0.831
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.15	22.00	1.216	-0.05	0.350	0.426
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.15	22.00	1.216	-0.11	0.310	0.377
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.12	22.00	1.225	-0.04	0.708	0.867
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.12	22.00	1.225	0.06	0.677	0.829
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.12	22.00	1.225	0.19	0.347	0.425
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.12	22.00	1.225	-0.08	0.302	0.370
	LTE Band 12	10M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.11	22.00	1.227	-0.19	0.705	0.865
	LTE Band 12	10M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23095	707.5	21.11	22.00	1.227	-0.08	0.670	0.822
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	23095	707.5	23.09	24.00	1.233	0.05	0.205	0.253
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2 / Full	23095	707.5	23.09	24.00	1.233	0.02	0.078	0.096
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2 / Full	23095	707.5	23.09	24.00	1.233	0.01	0.163	0.201
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2 / Full	23095	707.5	23.09	24.00	1.233	0.09	0.082	0.101

	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI2 / Full	23095	707.5	22.30	23.00	1.175	0.16	0.119	0.140
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI2 / Full	23095	707.5	22.30	23.00	1.175	-0.05	0.046	0.054
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI2 / Full	23095	707.5	22.30	23.00	1.175	0.15	0.094	0.110
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI2 / Full	23095	707.5	22.30	23.00	1.175	-0.04	0.047	0.055
08	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	23230	782	21.86	23.00	1.300	-0.16	0.870	**1.131**
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	23230	782	21.86	23.00	1.300	0.05	0.835	1.086
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	23230	782	21.86	23.00	1.300	-0.01	0.561	0.729
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	23230	782	21.86	23.00	1.300	0.08	0.528	0.686
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 2	DSI 2	23230	782	21.83	23.00	1.309	-0.13	0.740	0.969
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 2	DSI 2	23230	782	21.83	23.00	1.309	0.04	0.715	0.936
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 2	DSI 2	23230	782	21.83	23.00	1.309	-0.13	0.462	0.605
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 2	DSI 2	23230	782	21.83	23.00	1.309	-0.03	0.445	0.583
	LTE Band 13	10M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	23230	782	21.80	23.00	1.318	0.02	0.638	0.841
	LTE Band 13	10M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	23230	782	21.80	23.00	1.318	-0.09	0.606	0.799
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.40	21.50	1.288	-0.01	0.670	0.863
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.40	21.50	1.288	0.13	0.627	0.808
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.40	21.50	1.288	-0.12	0.431	0.555
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.40	21.50	1.288	-0.09	0.412	0.531
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.38	21.50	1.294	-0.1	0.553	0.716
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.38	21.50	1.294	0.01	0.497	0.643
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.38	21.50	1.294	-0.13	0.371	0.480
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.38	21.50	1.294	-0.07	0.354	0.458
	LTE Band 13	10M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.35	21.50	1.303	-0.15	0.565	0.736
	LTE Band 13	10M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23230	782	20.35	21.50	1.303	0.13	0.503	0.655
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	23230	782	22.97	24.00	1.268	0.15	0.183	0.232
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2 / Full	23230	782	22.97	24.00	1.268	-0.03	0.070	0.089
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2 / Full	23230	782	22.97	24.00	1.268	0.04	0.128	0.162
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2 / Full	23230	782	22.97	24.00	1.268	0.07	0.069	0.087
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI2 / Full	23230	782	21.91	23.00	1.285	0.1	0.105	0.135
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI2 / Full	23230	782	21.91	23.00	1.285	0.19	0.053	0.068
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI2 / Full	23230	782	21.91	23.00	1.285	0.01	0.076	0.098
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI2 / Full	23230	782	21.91	23.00	1.285	-0.08	0.053	0.068
09	LTE Band 14	10M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	23330	793	22.05	23.00	1.245	-0.09	0.988	**1.230**
	LTE Band 14	10M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	23330	793	22.05	23.00	1.245	0.12	0.961	1.196
	LTE Band 14	10M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	23330	793	22.05	23.00	1.245	0.14	0.613	0.763
	LTE Band 14	10M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	23330	793	22.05	23.00	1.245	-0.19	0.570	0.709
	LTE Band 14	10M	QPSK	25	0	Right Cheek	0mm	Ant 2	DSI 2	23330	793	22.04	23.00	1.247	-0.15	0.740	0.923
	LTE Band 14	10M	QPSK	25	0	Right Tilted	0mm	Ant 2	DSI 2	23330	793	22.04	23.00	1.247	-0.07	0.719	0.897
	LTE Band 14	10M	QPSK	25	0	Left Cheek	0mm	Ant 2	DSI 2	23330	793	22.04	23.00	1.247	-0.13	0.408	0.509
	LTE Band 14	10M	QPSK	25	0	Left Tilted	0mm	Ant 2	DSI 2	23330	793	22.04	23.00	1.247	0.05	0.390	0.486
	LTE Band 14	10M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	23330	793	22.02	23.00	1.253	0.08	0.727	0.911
	LTE Band 14	10M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	23330	793	22.02	23.00	1.253	0.03	0.702	0.880
	LTE Band 14	10M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.68	21.50	1.208	-0.04	0.636	0.768
	LTE Band 14	10M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.68	21.50	1.208	0.02	0.627	0.757
	LTE Band 14	10M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.68	21.50	1.208	-0.17	0.414	0.500
	LTE Band 14	10M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.68	21.50	1.208	-0.01	0.409	0.494
	LTE Band 14	10M	QPSK	25	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.66	21.50	1.213	-0.08	0.630	0.764
	LTE Band 14	10M	QPSK	25	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.66	21.50	1.213	-0.15	0.619	0.751
	LTE Band 14	10M	QPSK	25	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.66	21.50	1.213	0.11	0.416	0.505
	LTE Band 14	10M	QPSK	25	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	23330	793	20.66	21.50	1.213	0.14	0.406	0.493
	LTE Band 14	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	23330	793	23.07	24.00	1.239	0.01	0.187	0.232
	LTE Band 14	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2 / Full	23330	793	23.07	24.00	1.239	0.02	0.100	0.124
	LTE Band 14	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2 / Full	23330	793	23.07	24.00	1.239	0.14	0.164	0.203
	LTE Band 14	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2 / Full	23330	793	23.07	24.00	1.239	-0.03	0.097	0.120
	LTE Band 14	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI2 / Full	23330	793	22.28	23.00	1.180	0.19	0.112	0.132
	LTE Band 14	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI2 / Full	23330	793	22.28	23.00	1.180	-0.06	0.054	0.064

	LTE Band 14	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI2 / Full	23330	793	22.28	23.00	1.180	0.1	0.095	0.112
	LTE Band 14	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI2 / Full	23330	793	22.28	23.00	1.180	0.05	0.054	0.064
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	26865	831.5	22.61	23.50	1.227	0.13	0.805	0.988
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	26865	831.5	22.61	23.50	1.227	-0.05	0.760	0.933
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	26865	831.5	22.61	23.50	1.227	-0.06	0.444	0.545
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	26865	831.5	22.61	23.50	1.227	-0.19	0.422	0.518
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	26765	821.5	22.53	23.50	1.250	-0.15	0.749	0.936
10	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	26965	841.5	22.45	23.50	1.274	0.06	0.810	**1.032**
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	26765	821.5	22.53	23.50	1.250	0.04	0.712	0.890
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	26965	841.5	22.45	23.50	1.274	0.08	0.765	0.974
	LTE Band 5B	10M	QPSK	1	49	Right Cheek	0mm	Ant 2	DSI 2	20575 +20476	841.5 +831.6	22.55	23.50	1.245	0.05	0.789	0.982
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 2	DSI 2	26865	831.5	22.16	23.00	1.213	0.16	0.782	0.949
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 2	DSI 2	26865	831.5	22.16	23.00	1.213	-0.16	0.750	0.910
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 2	DSI 2	26865	831.5	22.16	23.00	1.213	-0.04	0.474	0.575
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 2	DSI 2	26865	831.5	22.16	23.00	1.213	0.04	0.457	0.555
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 2	DSI 2	26765	821.5	22.06	23.00	1.242	0.1	0.733	0.910
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 2	DSI 2	26965	841.5	21.90	23.00	1.288	0.17	0.755	0.973
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 2	DSI 2	26765	821.5	22.06	23.00	1.242	-0.06	0.705	0.875
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 2	DSI 2	26965	841.5	21.90	23.00	1.288	0.11	0.754	0.971
	LTE Band 26	15M	QPSK	75	0	Right Cheek	0mm	Ant 2	DSI 2	26865	831.5	22.15	23.00	1.216	0.05	0.776	0.944
	LTE Band 26	15M	QPSK	75	0	Right Tilted	0mm	Ant 2	DSI 2	26865	831.5	22.15	23.00	1.216	0.11	0.755	0.918
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	21.00	22.00	1.259	-0.19	0.570	0.718
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	21.00	22.00	1.259	-0.05	0.548	0.690
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	21.00	22.00	1.259	-0.14	0.354	0.446
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	21.00	22.00	1.259	-0.09	0.318	0.400
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26765	821.5	20.89	22.00	1.291	0.03	0.530	0.684
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26965	841.5	20.86	22.00	1.300	-0.16	0.587	0.763
	LTE Band 5B	10M	QPSK	1	49	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	20575 +20476	841.5 +831.6	20.90	22.00	1.288	0.04	0.554	0.714
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	20.98	22.00	1.265	0.01	0.565	0.715
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	20.98	22.00	1.265	0.04	0.545	0.689
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	20.98	22.00	1.265	0.16	0.349	0.441
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	26865	831.5	20.98	22.00	1.265	0.19	0.308	0.390
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26865	831.5	23.18	24.00	1.208	-0.06	0.198	0.239
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2 / Full	26865	831.5	23.18	24.00	1.208	-0.19	0.102	0.123
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2 / Full	26865	831.5	23.18	24.00	1.208	-0.13	0.131	0.158
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2 / Full	26865	831.5	23.18	24.00	1.208	0.13	0.091	0.110
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26765	821.5	23.15	24.00	1.216	-0.04	0.187	0.227
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26965	841.5	22.90	24.00	1.288	0.16	0.223	0.287
	LTE Band 5B	10M	QPSK	1	49	Right Cheek	0mm	Ant 1	DSI2 / Full	20575 +20476	841.5 +831.6	22.96	24.00	1.271	0.11	0.212	0.269
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26865	831.5	22.17	23.00	1.211	-0.13	0.118	0.143
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 1	DSI2 / Full	26865	831.5	22.17	23.00	1.211	0.08	0.058	0.070
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	DSI2 / Full	26865	831.5	22.17	23.00	1.211	-0.15	0.080	0.097
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 1	DSI2 / Full	26865	831.5	22.17	23.00	1.211	-0.15	0.062	0.075
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	132072	1720	22.16	23.00	1.213	-0.19	0.887	1.076
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	132072	1720	22.16	23.00	1.213	0.01	0.621	0.754
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	132072	1720	22.16	23.00	1.213	0.09	0.295	0.358
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	132072	1720	22.16	23.00	1.213	0.11	0.197	0.239
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	21.93	23.00	1.279	0.12	0.868	1.111
11	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	132572	1770	22.12	23.00	1.225	0.04	0.978	**1.198**
	LTE Band 66C	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	132572 +132374	1770 +1750.2	22.14	23.00	1.219	0.06	0.949	1.157
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	132072	1720	22.15	23.00	1.216	-0.16	0.763	0.928
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	132072	1720	22.15	23.00	1.216	0.02	0.546	0.664
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2	132072	1720	22.15	23.00	1.216	-0.03	0.250	0.304
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2	132072	1720	22.15	23.00	1.216	-0.02	0.167	0.203

	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	21.91	23.00	1.285	0.16	0.755	0.970
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	132572	1770	22.10	23.00	1.230	0.13	0.853	1.049
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	DSI 2	132072	1720	22.13	23.00	1.222	0.08	0.771	0.942
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.15	21.00	1.216	-0.07	0.646	0.786
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.15	21.00	1.216	-0.17	0.410	0.499
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.15	21.00	1.216	-0.07	0.191	0.232
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.15	21.00	1.216	-0.12	0.137	0.167
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.13	21.00	1.222	-0.17	0.661	0.808
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.13	21.00	1.222	0.05	0.427	0.522
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.13	21.00	1.222	-0.17	0.193	0.236
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.13	21.00	1.222	0.08	0.140	0.171
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	132322	1745	19.95	21.00	1.274	-0.09	0.649	0.827
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	132572	1770	20.04	21.00	1.247	0.05	0.667	0.832
	LTE Band 66C	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	132572 +132374	1770 +1750.2	20.12	21.00	1.225	0.05	0.635	0.778
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	132072	1720	20.10	21.00	1.230	-0.11	0.641	0.789
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	132072	1720	23.16	24.00	1.213	-0.12	0.150	0.182
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2 / Full	132072	1720	23.16	24.00	1.213	0.04	0.061	0.074
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2 / Full	132072	1720	23.16	24.00	1.213	0.17	0.119	0.144
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2 / Full	132072	1720	23.16	24.00	1.213	0.09	0.100	0.121
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	132322	1745	22.94	24.00	1.276	0.1	0.153	0.195
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	132572	1770	22.91	24.00	1.285	-0.19	0.133	0.171
	LTE Band 66C	20M	QPSK	1	99	Right Cheek	0mm	Ant 1	DSI2 / Full	132322 +132520	1745 +1764.8	23.12	24.00	1.225	0.17	0.135	0.165
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2 / Full	132072	1720	22.35	23.00	1.161	0.13	0.095	0.110
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2 / Full	132072	1720	22.35	23.00	1.161	-0.12	0.033	0.038
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2 / Full	132072	1720	22.35	23.00	1.161	0.08	0.062	0.072
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2 / Full	132072	1720	22.35	23.00	1.161	-0.18	0.055	0.064
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	21.03	22.00	1.250	0.03	0.876	1.095
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	26340	1880	21.03	22.00	1.250	0.04	0.591	0.739
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	26340	1880	21.03	22.00	1.250	0.15	0.261	0.326
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	26340	1880	21.03	22.00	1.250	0.05	0.168	0.210
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	26140	1860	21.02	22.00	1.253	-0.17	0.890	1.115
12	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	26590	1905	20.96	22.00	1.271	0.04	0.957	**1.216**
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	21.00	22.00	1.259	-0.16	0.855	1.076
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	26340	1880	21.00	22.00	1.259	-0.14	0.572	0.720
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2	26340	1880	21.00	22.00	1.259	0.19	0.248	0.312
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2	26340	1880	21.00	22.00	1.259	0.14	0.159	0.200
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	26140	1860	20.98	22.00	1.265	0.06	0.871	1.102
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	26590	1905	20.94	22.00	1.276	0.16	0.922	1.177
	LTE Band 25	20M	QPSK	100	0	Right Cheek	0mm	Ant 2	DSI 2	26340	1880	20.98	22.00	1.265	0.05	0.856	1.083
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.10	20.00	1.230	0.18	0.508	0.625
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.10	20.00	1.230	-0.14	0.419	0.515
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.10	20.00	1.230	0.03	0.146	0.180
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.10	20.00	1.230	-0.02	0.100	0.123
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.08	20.00	1.236	-0.18	0.524	0.648
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.08	20.00	1.236	0.14	0.407	0.503
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.08	20.00	1.236	0.06	0.148	0.183
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	26340	1880	19.08	20.00	1.236	-0.06	0.101	0.125
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26140	1860	19.04	20.00	1.247	0.07	0.515	0.642
	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	26590	1905	19.06	20.00	1.242	-0.17	0.595	0.739
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26340	1880	23.15	24.00	1.216	0.02	0.170	0.207
	LTE Band 25	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI2 / Full	26340	1880	23.15	24.00	1.216	-0.09	0.095	0.116
	LTE Band 25	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI2 / Full	26340	1880	23.15	24.00	1.216	0.05	0.107	0.130
	LTE Band 25	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI2 / Full	26340	1880	23.15	24.00	1.216	0.06	0.093	0.113
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26140	1860	22.96	24.00	1.271	-0.16	0.164	0.208
	LTE Band 25	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26590	1905	22.93	24.00	1.279	0.02	0.170	0.217

	LTE Band 25	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI2 / Full	26340	1880	22.32	23.00	1.169	-0.08	0.099	0.116
	LTE Band 25	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI2 / Full	26340	1880	22.32	23.00	1.169	0.18	0.060	0.070
	LTE Band 25	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI2 / Full	26340	1880	22.32	23.00	1.169	-0.04	0.084	0.098
	LTE Band 25	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI2 / Full	26340	1880	22.32	23.00	1.169	0.14	0.065	0.076
	LTE Band 30	10M	QPSK	1	25	Right Cheek	0mm	Ant 8	DSI 2	27710	2310	16.76	18.00	1.330	0.04	0.643	0.855
13	LTE Band 30	10M	QPSK	1	25	Right Tilted	0mm	Ant 8	DSI 2	27710	2310	16.76	18.00	1.330	0.02	0.761	**1.012**
	LTE Band 30	10M	QPSK	1	25	Left Cheek	0mm	Ant 8	DSI 2	27710	2310	16.76	18.00	1.330	0.12	0.430	0.572
	LTE Band 30	10M	QPSK	1	25	Left Tilted	0mm	Ant 8	DSI 2	27710	2310	16.76	18.00	1.330	0.15	0.472	0.628
	LTE Band 30	10M	QPSK	25	0	Right Cheek	0mm	Ant 8	DSI 2	27710	2310	16.74	18.00	1.337	0.03	0.635	0.849
	LTE Band 30	10M	QPSK	25	0	Right Tilted	0mm	Ant 8	DSI 2	27710	2310	16.74	18.00	1.337	-0.02	0.752	1.005
	LTE Band 30	10M	QPSK	25	0	Left Cheek	0mm	Ant 8	DSI 2	27710	2310	16.74	18.00	1.337	0.16	0.420	0.561
	LTE Band 30	10M	QPSK	25	0	Left Tilted	0mm	Ant 8	DSI 2	27710	2310	16.74	18.00	1.337	0.12	0.475	0.635
	LTE Band 30	10M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	27710	2310	16.71	18.00	1.346	-0.08	0.625	0.841
	LTE Band 30	10M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	27710	2310	16.71	18.00	1.346	0.16	0.748	1.007
	LTE Band 30	10M	QPSK	1	25	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.40	16.50	1.288	-0.06	0.427	0.550
	LTE Band 30	10M	QPSK	1	25	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.40	16.50	1.288	0.09	0.542	0.698
	LTE Band 30	10M	QPSK	1	25	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.40	16.50	1.288	0.03	0.316	0.407
	LTE Band 30	10M	QPSK	1	25	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.40	16.50	1.288	0.08	0.360	0.464
	LTE Band 30	10M	QPSK	25	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.39	16.50	1.291	-0.16	0.413	0.533
	LTE Band 30	10M	QPSK	25	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.39	16.50	1.291	-0.07	0.526	0.679
	LTE Band 30	10M	QPSK	25	0	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.39	16.50	1.291	-0.17	0.319	0.412
	LTE Band 30	10M	QPSK	25	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	27710	2310	15.39	16.50	1.291	0.02	0.371	0.479
	LTE Band 30	10M	QPSK	1	25	Right Cheek	0mm	Ant 7	DSI2 / Full	27710	2310	23.10	24.00	1.230	0.04	0.079	0.097
	LTE Band 30	10M	QPSK	1	25	Right Tilted	0mm	Ant 7	DSI2 / Full	27710	2310	23.10	24.00	1.230	0.07	0.072	0.089
	LTE Band 30	10M	QPSK	1	25	Left Cheek	0mm	Ant 7	DSI2 / Full	27710	2310	23.10	24.00	1.230	-0.19	0.116	0.143
	LTE Band 30	10M	QPSK	1	25	Left Tilted	0mm	Ant 7	DSI2 / Full	27710	2310	23.10	24.00	1.230	-0.07	0.055	0.068
	LTE Band 30	10M	QPSK	25	0	Right Cheek	0mm	Ant 7	DSI2 / Full	27710	2310	22.13	23.00	1.222	0.12	0.055	0.067
	LTE Band 30	10M	QPSK	25	0	Right Tilted	0mm	Ant 7	DSI2 / Full	27710	2310	22.13	23.00	1.222	-0.14	0.050	0.061
	LTE Band 30	10M	QPSK	25	0	Left Cheek	0mm	Ant 7	DSI2 / Full	27710	2310	22.13	23.00	1.222	-0.06	0.092	0.112
	LTE Band 30	10M	QPSK	25	0	Left Tilted	0mm	Ant 7	DSI2 / Full	27710	2310	22.13	23.00	1.222	0.18	0.043	0.053
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI2 / Full	21100	2535	23.18	24.00	1.208	0.05	0.210	0.254
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 7	DSI2 / Full	21100	2535	23.18	24.00	1.208	-0.06	0.200	0.242
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	DSI2 / Full	21100	2535	23.18	24.00	1.208	-0.04	0.237	0.286
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 7	DSI2 / Full	21100	2535	23.18	24.00	1.208	0.13	0.101	0.122
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	DSI2 / Full	20850	2510	22.96	24.00	1.271	0.19	0.221	0.281
14	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	DSI2 / Full	21350	2560	22.91	24.00	1.285	0.1	0.227	**0.292**
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSI2 / Full	21100	2535	22.14	23.00	1.219	0.05	0.112	0.137
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	DSI2 / Full	21100	2535	22.14	23.00	1.219	0.07	0.103	0.126
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	DSI2 / Full	21100	2535	22.14	23.00	1.219	-0.05	0.134	0.163
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	DSI2 / Full	21100	2535	22.14	23.00	1.219	-0.16	0.067	0.082

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	40185	2549.5	20.04	20.90	1.219	62.9	1.006	0.14	0.674	0.827
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	20.04	20.90	1.219	62.9	1.006	-0.04	0.850	1.042
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	40185	2549.5	20.04	20.90	1.219	62.9	1.006	0.05	0.577	0.708
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	40185	2549.5	20.04	20.90	1.219	62.9	1.006	0.19	0.666	0.817
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	39750	2506	19.80	20.90	1.288	62.9	1.006	-0.02	0.579	0.750
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	40620	2593	19.85	20.90	1.274	62.9	1.006	0.12	0.686	0.879
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	41055	2636.5	19.77	20.90	1.297	62.9	1.006	0.08	0.631	0.823
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	41490	2680	19.97	20.90	1.239	62.9	1.006	0.19	0.602	0.750
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	39750	2506	19.80	20.90	1.288	62.9	1.006	0.04	0.778	1.008
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	40620	2593	19.85	20.90	1.274	62.9	1.006	-0.09	0.873	1.118
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	41055	2636.5	19.77	20.90	1.297	62.9	1.006	0.07	0.848	1.107
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	41490	2680	19.97	20.90	1.239	62.9	1.006	-0.02	0.784	0.977
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	39750	2506	19.80	20.90	1.288	62.9	1.006	0.05	0.499	0.647
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	40620	2593	19.85	20.90	1.274	62.9	1.006	0.09	0.575	0.737
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	41055	2636.5	19.77	20.90	1.297	62.9	1.006	-0.19	0.518	0.676
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	41490	2680	19.97	20.90	1.239	62.9	1.006	0.1	0.489	0.609
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	39750	2506	19.80	20.90	1.288	62.9	1.006	-0.18	0.553	0.717
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	40620	2593	19.85	20.90	1.274	62.9	1.006	0.03	0.658	0.843
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	41055	2636.5	19.77	20.90	1.297	62.9	1.006	-0.11	0.616	0.804
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	41490	2680	19.97	20.90	1.239	62.9	1.006	0.1	0.561	0.699
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	40185	2549.5	20.02	20.90	1.225	62.9	1.006	-0.09	0.721	0.888
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	20.02	20.90	1.225	62.9	1.006	0.12	0.905	1.115
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	40185	2549.5	20.02	20.90	1.225	62.9	1.006	0.05	0.629	0.775
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	40185	2549.5	20.02	20.90	1.225	62.9	1.006	0.03	0.733	0.903
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	39750	2506	19.78	20.90	1.294	62.9	1.006	0.09	0.631	0.822
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	40620	2593	19.83	20.90	1.279	62.9	1.006	0.03	0.729	0.938
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	41055	2636.5	19.75	20.90	1.303	62.9	1.006	0.09	0.683	0.895
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	41490	2680	19.95	20.90	1.245	62.9	1.006	0.09	0.652	0.816
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	39750	2506	19.78	20.90	1.294	62.9	1.006	0.04	0.771	1.004
15	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	40620	2593	19.83	20.90	1.279	62.9	1.006	0.12	0.938	**1.207**
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	41055	2636.5	19.75	20.90	1.303	62.9	1.006	-0.08	0.899	1.179
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	41490	2680	19.95	20.90	1.245	62.9	1.006	-0.06	0.818	1.024
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	39750	2506	19.78	20.90	1.294	62.9	1.006	0.01	0.494	0.643
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	40620	2593	19.83	20.90	1.279	62.9	1.006	0.11	0.580	0.746
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	41055	2636.5	19.75	20.90	1.303	62.9	1.006	-0.04	0.525	0.688
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	41490	2680	19.95	20.90	1.245	62.9	1.006	0.04	0.521	0.652
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	39750	2506	19.78	20.90	1.294	62.9	1.006	-0.14	0.562	0.732
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	40620	2593	19.83	20.90	1.279	62.9	1.006	-0.04	0.706	0.909
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	41055	2636.5	19.75	20.90	1.303	62.9	1.006	0.17	0.624	0.818
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	41490	2680	19.95	20.90	1.245	62.9	1.006	-0.08	0.593	0.742
	LTE Band 41C	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	40620 +40818	2593 +2612.8	20.00	20.90	1.230	62.9	1.006	0.08	0.908	1.124
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 8	DSI 2	40185	2549.5	20.01	20.90	1.227	62.9	1.006	0.12	0.685	0.846
	LTE Band 41	20M	QPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	20.01	20.90	1.227	62.9	1.006	0.04	0.872	1.077
	LTE Band 41	20M	QPSK	100	0	Left Cheek	0mm	Ant 8	DSI 2	40185	2549.5	20.01	20.90	1.227	62.9	1.006	-0.07	0.607	0.750
	LTE Band 41	20M	QPSK	100	0	Left Tilted	0mm	Ant 8	DSI 2	40185	2549.5	20.01	20.90	1.227	62.9	1.006	-0.14	0.708	0.874
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.58	19.40	1.208	62.9	1.006	0.18	0.533	0.648
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.58	19.40	1.208	62.9	1.006	0.01	0.649	0.789
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.58	19.40	1.208	62.9	1.006	-0.05	0.459	0.558
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.58	19.40	1.208	62.9	1.006	-0.16	0.540	0.656
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	39750	2506	18.24	19.40	1.306	62.9	1.006	-0.05	0.423	0.556
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40620	2593	18.35	19.40	1.274	62.9	1.006	-0.1	0.520	0.666
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	18.22	19.40	1.312	62.9	1.006	0.08	0.469	0.619

	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	41490	2680	18.51	19.40	1.227	62.9	1.006	0.19	0.456	0.563
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	39750	2506	18.24	19.40	1.306	62.9	1.006	-0.14	0.611	0.803
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40620	2593	18.35	19.40	1.274	62.9	1.006	0.05	0.624	0.799
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	18.22	19.40	1.312	62.9	1.006	0.05	0.572	0.755
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41490	2680	18.51	19.40	1.227	62.9	1.006	-0.12	0.426	0.526
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	39750	2506	18.24	19.40	1.306	62.9	1.006	-0.12	0.362	0.476
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40620	2593	18.35	19.40	1.274	62.9	1.006	0.05	0.622	0.797
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	18.22	19.40	1.312	62.9	1.006	0.02	0.579	0.764
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	41490	2680	18.51	19.40	1.227	62.9	1.006	-0.06	0.556	0.687
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.56	19.40	1.213	62.9	1.006	0.19	0.566	0.691
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.56	19.40	1.213	62.9	1.006	-0.01	0.665	0.812
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.56	19.40	1.213	62.9	1.006	0.08	0.478	0.583
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.56	19.40	1.213	62.9	1.006	-0.06	0.562	0.686
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	39750	2506	18.22	19.40	1.312	62.9	1.006	0.06	0.438	0.578
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40620	2593	18.32	19.40	1.282	62.9	1.006	0.11	0.553	0.713
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	18.20	19.40	1.318	62.9	1.006	-0.09	0.502	0.666
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	41490	2680	18.48	19.40	1.236	62.9	1.006	-0.19	0.473	0.588
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	39750	2506	18.22	19.40	1.312	62.9	1.006	0.18	0.595	0.785
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40620	2593	18.32	19.40	1.282	62.9	1.006	0.02	0.642	0.828
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	18.20	19.40	1.318	62.9	1.006	0.14	0.593	0.786
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41490	2680	18.48	19.40	1.236	62.9	1.006	-0.13	0.449	0.558
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	39750	2506	18.22	19.40	1.312	62.9	1.006	-0.01	0.380	0.502
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40620	2593	18.32	19.40	1.282	62.9	1.006	-0.17	0.604	0.779
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	18.20	19.40	1.318	62.9	1.006	-0.12	0.544	0.721
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	41490	2680	18.48	19.40	1.236	62.9	1.006	0.09	0.512	0.637
	LTE Band 41C	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40620 +40818	2593 +2612.8	18.50	19.40	1.230	62.9	1.006	0.03	0.623	0.771
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.54	19.40	1.219	62.9	1.006	0.07	0.552	0.677
	LTE Band 41	20M	QPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.54	19.40	1.219	62.9	1.006	0.17	0.654	0.802
	LTE Band 41	20M	QPSK	100	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	18.54	19.40	1.219	62.9	1.006	-0.04	0.550	0.674
	LTE Band 41	20M	QPSK	1	99	Right Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	23.14	24.00	1.219	62.9	1.006	-0.06	0.134	0.164
	LTE Band 41	20M	QPSK	1	99	Right Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	23.14	24.00	1.219	62.9	1.006	-0.02	0.117	0.143
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.05	0.160	0.196
	LTE Band 41	20M	QPSK	1	99	Left Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.12	0.077	0.094
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	39750	2506	22.81	24.00	1.315	62.9	1.006	0.01	0.146	0.193
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	40620	2593	22.70	24.00	1.349	62.9	1.006	-0.03	0.143	0.194
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	41055	2636.5	22.78	24.00	1.324	62.9	1.006	0.1	0.175	0.233
	LTE Band 41	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	41490	2680	23.10	24.00	1.230	62.9	1.006	-0.19	0.168	0.208
	LTE Band 41C	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	41055 +41253	2636.5 +2656.3	23.10	24.00	1.230	62.9	1.006	0.17	0.170	0.210
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	22.17	23.00	1.211	62.9	1.006	0.19	0.098	0.119
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	22.17	23.00	1.211	62.9	1.006	0.19	0.083	0.101
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	22.17	23.00	1.211	62.9	1.006	0.03	0.114	0.139
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	22.17	23.00	1.211	62.9	1.006	0.11	0.055	0.067
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	40185	2549.5	21.74	22.50	1.191	42.9	1.009	0.08	0.688	0.827
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	21.74	22.50	1.191	42.9	1.009	0.01	0.878	1.055
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	40185	2549.5	21.74	22.50	1.191	42.9	1.009	-0.05	0.589	0.708
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	40185	2549.5	21.74	22.50	1.191	42.9	1.009	-0.02	0.709	0.852
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	39750	2506	21.62	22.50	1.225	42.9	1.009	0.16	0.451	0.557
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	40620	2593	21.66	22.50	1.213	42.9	1.009	0.14	0.660	0.808
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	41055	2636.5	21.50	22.50	1.259	42.9	1.009	-0.02	0.651	0.827
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2	41490	2680	21.64	22.50	1.219	42.9	1.009	0.04	0.508	0.625
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	39750	2506	21.62	22.50	1.225	42.9	1.009	0.09	0.808	0.998
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	40620	2593	21.66	22.50	1.213	42.9	1.009	0.18	0.914	1.119
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	41055	2636.5	21.50	22.50	1.259	42.9	1.009	-0.05	0.759	0.964
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2	41490	2680	21.64	22.50	1.219	42.9	1.009	-0.01	0.763	0.938
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	39750	2506	21.62	22.50	1.225	42.9	1.009	0.11	0.405	0.500

	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	40620	2593	21.66	22.50	1.213	42.9	1.009	-0.19	0.473	0.579
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	41055	2636.5	21.50	22.50	1.259	42.9	1.009	0.09	0.466	0.592
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2	41490	2680	21.64	22.50	1.219	42.9	1.009	0.1	0.386	0.475
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	39750	2506	21.62	22.50	1.225	42.9	1.009	0.09	0.616	0.761
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	40620	2593	21.66	22.50	1.213	42.9	1.009	0.09	0.656	0.803
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	41055	2636.5	21.50	22.50	1.259	42.9	1.009	-0.19	0.569	0.723
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2	41490	2680	21.64	22.50	1.219	42.9	1.009	-0.15	0.478	0.588
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	40185	2549.5	21.71	22.50	1.199	42.9	1.009	0.04	0.666	0.806
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	21.71	22.50	1.199	42.9	1.009	-0.07	0.867	1.049
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	40185	2549.5	21.71	22.50	1.199	42.9	1.009	0.16	0.585	0.708
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	40185	2549.5	21.71	22.50	1.199	42.9	1.009	-0.1	0.701	0.848
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	39750	2506	21.59	22.50	1.233	42.9	1.009	-0.12	0.458	0.570
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	40620	2593	21.63	22.50	1.222	42.9	1.009	0.11	0.642	0.791
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	41055	2636.5	21.47	22.50	1.268	42.9	1.009	0.13	0.612	0.783
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2	41490	2680	21.62	22.50	1.225	42.9	1.009	0.02	0.501	0.619
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	39750	2506	21.59	22.50	1.233	42.9	1.009	0.09	0.807	1.004
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	40620	2593	21.63	22.50	1.222	42.9	1.009	-0.16	0.903	1.113
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	41055	2636.5	21.47	22.50	1.268	42.9	1.009	-0.12	0.846	1.082
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2	41490	2680	21.62	22.50	1.225	42.9	1.009	-0.02	0.873	1.079
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	39750	2506	21.59	22.50	1.233	42.9	1.009	-0.12	0.405	0.504
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	40620	2593	21.63	22.50	1.222	42.9	1.009	-0.04	0.501	0.618
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	41055	2636.5	21.47	22.50	1.268	42.9	1.009	-0.17	0.512	0.655
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2	41490	2680	21.62	22.50	1.225	42.9	1.009	0.13	0.404	0.499
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	39750	2506	21.59	22.50	1.233	42.9	1.009	-0.19	0.593	0.738
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	40620	2593	21.63	22.50	1.222	42.9	1.009	-0.17	0.657	0.810
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	41055	2636.5	21.47	22.50	1.268	42.9	1.009	-0.1	0.570	0.729
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2	41490	2680	21.62	22.50	1.225	42.9	1.009	-0.18	0.475	0.587
	LTE Band 41(HPUE)	20M	QPSK	100	0	Right Cheek	0mm	Ant 8	DSI 2	40185	2549.5	21.70	22.50	1.202	42.9	1.009	-0.14	0.663	0.804
	LTE Band 41(HPUE)	20M	QPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2	40185	2549.5	21.70	22.50	1.202	42.9	1.009	-0.16	0.871	1.057
	LTE Band 41(HPUE)	20M	QPSK	100	0	Left Cheek	0mm	Ant 8	DSI 2	40185	2549.5	21.70	22.50	1.202	42.9	1.009	0.17	0.580	0.704
	LTE Band 41(HPUE)	20M	QPSK	100	0	Left Tilted	0mm	Ant 8	DSI 2	40185	2549.5	21.70	22.50	1.202	42.9	1.009	-0.1	0.698	0.847
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.22	21.00	1.197	42.9	1.009	0.16	0.487	0.588
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.22	21.00	1.197	42.9	1.009	-0.13	0.564	0.681
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.22	21.00	1.197	42.9	1.009	0.03	0.436	0.526
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.22	21.00	1.197	42.9	1.009	0.08	0.474	0.572
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	39750	2506	20.10	21.00	1.230	42.9	1.009	0.1	0.460	0.571
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40620	2593	20.15	21.00	1.216	42.9	1.009	0.09	0.617	0.757
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	19.96	21.00	1.271	42.9	1.009	0.19	0.582	0.746
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41490	2680	20.12	21.00	1.225	42.9	1.009	-0.19	0.581	0.718
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.20	21.00	1.202	42.9	1.009	-0.18	0.490	0.594
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.20	21.00	1.202	42.9	1.009	-0.14	0.572	0.694
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.20	21.00	1.202	42.9	1.009	0.18	0.440	0.534
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.20	21.00	1.202	42.9	1.009	0.09	0.482	0.585
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	39750	2506	20.06	21.00	1.242	42.9	1.009	0.13	0.454	0.569
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40620	2593	20.12	21.00	1.225	42.9	1.009	0.08	0.641	0.792
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41055	2636.5	19.92	21.00	1.282	42.9	1.009	-0.11	0.601	0.778
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	41490	2680	20.11	21.00	1.227	42.9	1.009	-0.06	0.599	0.742
	LTE Band 41(HPUE)	20M	QPSK	100	0	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	40185	2549.5	20.17	21.00	1.211	42.9	1.009	0.17	0.567	0.693
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	26.02	27.00	1.253	42.9	1.009	-0.01	0.185	0.234
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	26.02	27.00	1.253	42.9	1.009	0.13	0.156	0.197
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	26.02	27.00	1.253	42.9	1.009	0.06	0.191	0.242
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	26.02	27.00	1.253	42.9	1.009	0.16	0.097	0.123
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	39750	2506	25.77	27.00	1.327	42.9	1.009	-0.16	0.187	0.250
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	40620	2593	25.63	27.00	1.371	42.9	1.009	-0.02	0.214	0.296
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	41055	2636.5	25.73	27.00	1.340	42.9	1.009	0.07	0.210	0.284
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Cheek	0mm	Ant 7	DSI2 / Full	41490	2680	25.88	27.00	1.294	42.9	1.009	-0.09	0.208	0.272

	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	25.61	26.00	1.094	42.9	1.009	-0.06	0.150	0.166
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	25.61	26.00	1.094	42.9	1.009	0.14	0.126	0.139
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	DSI2 / Full	40185	2549.5	25.61	26.00	1.094	42.9	1.009	-0.18	0.161	0.178
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	DSI2 / Full	40185	2549.5	25.61	26.00	1.094	42.9	1.009	0.01	0.084	0.093
	LTE Band 48	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2	55830	3609	22.28	23.00	1.180	62.9	1.006	0.12	0.660	0.784
	LTE Band 48	20M	QPSK	1	99	Right Tilted	0mm	Ant 4	DSI 2	55830	3609	22.28	23.00	1.180	62.9	1.006	-0.13	0.431	0.512
	LTE Band 48	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2	55830	3609	22.28	23.00	1.180	62.9	1.006	0.14	0.346	0.411
	LTE Band 48	20M	QPSK	1	99	Left Tilted	0mm	Ant 4	DSI 2	55830	3609	22.28	23.00	1.180	62.9	1.006	0.15	0.266	0.316
16	LTE Band 48	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2	55340	3560	22.25	23.00	1.189	62.9	1.006	0.01	0.913	**1.092**
	LTE Band 48	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2	56150	3641	22.04	23.00	1.247	62.9	1.006	0.05	0.586	0.735
	LTE Band 48	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2	56640	3690	22.06	23.00	1.242	62.9	1.006	0.04	0.445	0.556
	LTE Band 48C	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2	55340 +55538	3560 +3579.8	22.25	23.00	1.189	62.9	1.006	0.01	0.886	1.059
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	55830	3609	22.25	23.00	1.189	62.9	1.006	-0.16	0.517	0.618
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2	55830	3609	22.25	23.00	1.189	62.9	1.006	-0.06	0.332	0.397
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2	55830	3609	22.25	23.00	1.189	62.9	1.006	0.18	0.272	0.325
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	55830	3609	22.25	23.00	1.189	62.9	1.006	-0.06	0.198	0.237
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	55340	3560	22.23	23.00	1.194	62.9	1.006	-0.18	0.586	0.704
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	56150	3641	22.01	23.00	1.256	62.9	1.006	0.08	0.678	0.857
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	56640	3690	22.03	23.00	1.250	62.9	1.006	-0.01	0.347	0.436
	LTE Band 48	20M	QPSK	100	0	Right Cheek	0mm	Ant 4	DSI 2	55830	3609	22.23	23.00	1.194	62.9	1.006	0.05	0.520	0.625
	LTE Band 48	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.79	21.50	1.178	62.9	1.006	-0.14	0.320	0.379
	LTE Band 48	20M	QPSK	1	99	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.79	21.50	1.178	62.9	1.006	0.15	0.202	0.239
	LTE Band 48	20M	QPSK	1	99	Left Cheek	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.79	21.50	1.178	62.9	1.006	-0.12	0.157	0.186
	LTE Band 48	20M	QPSK	1	99	Left Tilted	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.79	21.50	1.178	62.9	1.006	0.19	0.116	0.137
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.78	21.50	1.180	62.9	1.006	0.16	0.336	0.399
	LTE Band 48	20M	QPSK	50	0	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.78	21.50	1.180	62.9	1.006	-0.19	0.213	0.253
	LTE Band 48	20M	QPSK	50	0	Left Cheek	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.78	21.50	1.180	62.9	1.006	-0.08	0.154	0.183
	LTE Band 48	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.78	21.50	1.180	62.9	1.006	0.1	0.118	0.140
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	55340	3560	20.60	21.50	1.230	62.9	1.006	0.15	0.651	0.806
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	56150	3641	20.50	21.50	1.259	62.9	1.006	0.13	0.443	0.561
	LTE Band 48	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	56640	3690	20.45	21.50	1.274	62.9	1.006	-0.01	0.349	0.447
	LTE Band 48C	20M	QPSK	1	99	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	55340 +55538	3560 +3579.8	20.75	21.50	1.189	62.9	1.006	0.04	0.627	0.750
	LTE Band 48	20M	QPSK	100	0	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	55830	3609	20.75	21.50	1.189	62.9	1.006	0.07	0.322	0.385

<5GNR NSA 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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
17	FR1 N71	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	136100	680.5	23.10	24.00	1.230	0.11	0.557	**0.685**
	FR1 N71	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	136100	680.5	23.10	24.00	1.230	-0.1	0.497	0.611
	FR1 N71	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	136100	680.5	23.10	24.00	1.230	-0.08	0.293	0.360
	FR1 N71	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	136100	680.5	23.10	24.00	1.230	-0.1	0.286	0.352
	FR1 N71	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	136100	680.5	23.05	24.00	1.245	0.14	0.521	0.648
	FR1 N71	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	136100	680.5	23.05	24.00	1.245	0.04	0.458	0.570
	FR1 N71	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	136100	680.5	23.05	24.00	1.245	-0.1	0.261	0.325
	FR1 N71	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	136100	680.5	23.05	24.00	1.245	-0.14	0.253	0.315
	FR1 N71	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	136100	680.5	23.25	24.00	1.189	-0.18	0.067	0.080
	FR1 N71	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	136100	680.5	23.25	24.00	1.189	0.09	0.035	0.042
	FR1 N71	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	136100	680.5	23.25	24.00	1.189	-0.18	0.054	0.064
	FR1 N71	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	136100	680.5	23.25	24.00	1.189	0.03	0.031	0.037
	FR1 N71	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	136100	680.5	23.21	24.00	1.199	-0.03	0.080	0.096
	FR1 N71	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	136100	680.5	23.21	24.00	1.199	0.16	0.042	0.050
	FR1 N71	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	136100	680.5	23.21	24.00	1.199	0.01	0.075	0.090
	FR1 N71	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	136100	680.5	23.21	24.00	1.199	-0.15	0.037	0.044

18	FR1 N12	15M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	141500	707.5	23.17	24.00	1.211	-0.15	0.719	**0.870**
	FR1 N12	15M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	141500	707.5	23.17	24.00	1.211	0.19	0.660	0.799
	FR1 N12	15M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	141500	707.5	23.17	24.00	1.211	0.06	0.399	0.483
	FR1 N12	15M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	141500	707.5	23.17	24.00	1.211	0.01	0.372	0.450
	FR1 N12	15M	BPSK	36	22	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	141500	707.5	23.12	24.00	1.225	0.04	0.701	0.858
	FR1 N12	15M	BPSK	36	22	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	141500	707.5	23.12	24.00	1.225	-0.02	0.641	0.785
	FR1 N12	15M	BPSK	36	22	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	141500	707.5	23.12	24.00	1.225	0.04	0.392	0.480
	FR1 N12	15M	BPSK	36	22	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	141500	707.5	23.12	24.00	1.225	0.01	0.367	0.449
	FR1 N12	15M	BPSK	75	0	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	141500	707.5	23.09	24.00	1.233	0.02	0.705	0.869
19	FR1 N14	10M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	158600	793	23.02	24.00	1.253	0.09	0.679	**0.851**
	FR1 N14	10M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	158600	793	23.02	24.00	1.253	0.16	0.595	0.746
	FR1 N14	10M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	158600	793	23.02	24.00	1.253	-0.02	0.422	0.529
	FR1 N14	10M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	158600	793	23.02	24.00	1.253	0.02	0.415	0.520
	FR1 N14	10M	BPSK	25	14	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	158600	793	22.96	24.00	1.271	-0.03	0.655	0.832
	FR1 N14	10M	BPSK	25	14	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	158600	793	22.96	24.00	1.271	-0.01	0.571	0.725
	FR1 N14	10M	BPSK	25	14	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	158600	793	22.96	24.00	1.271	-0.07	0.404	0.513
	FR1 N14	10M	BPSK	25	14	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	158600	793	22.96	24.00	1.271	0.07	0.397	0.504
	FR1 N14	10M	BPSK	50	0	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	158600	793	22.92	24.00	1.282	0.07	0.662	0.849
	FR1 N26	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	166300	831.5	23.19	24.00	1.205	0.02	0.841	1.013
	FR1 N26	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	166300	831.5	23.19	24.00	1.205	-0.05	0.730	0.880
	FR1 N26	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	166300	831.5	23.19	24.00	1.205	0.06	0.477	0.575
	FR1 N26	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	166300	831.5	23.19	24.00	1.205	-0.01	0.451	0.543
20	FR1 N26	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	166300	831.5	23.13	24.00	1.222	0.13	0.863	**1.054**
	FR1 N26	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	166300	831.5	23.13	24.00	1.222	0.16	0.740	0.904
	FR1 N26	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	166300	831.5	23.13	24.00	1.222	-0.09	0.456	0.557
	FR1 N26	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	166300	831.5	23.13	24.00	1.222	-0.07	0.434	0.530
	FR1 N26	20M	BPSK	100	0	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	166300	831.5	23.08	24.00	1.236	0.08	0.817	1.010
	FR1 N26	20M	BPSK	100	0	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	166300	831.5	23.08	24.00	1.236	-0.17	0.804	0.994
	FR1 N26	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	22.00	23.00	1.259	-0.13	0.681	0.857
	FR1 N26	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	22.00	23.00	1.259	-0.18	0.663	0.835
	FR1 N26	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	22.00	23.00	1.259	-0.03	0.387	0.487
	FR1 N26	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	22.00	23.00	1.259	0.13	0.366	0.461
	FR1 N26	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	21.98	23.00	1.265	-0.16	0.690	0.873
	FR1 N26	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	21.98	23.00	1.265	0.03	0.676	0.855
	FR1 N26	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	21.98	23.00	1.265	0.12	0.399	0.505
	FR1 N26	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	21.98	23.00	1.265	-0.11	0.374	0.473
	FR1 N26	20M	BPSK	100	0	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	21.95	23.00	1.274	0.08	0.676	0.861
	FR1 N26	20M	BPSK	100	0	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	166300	831.5	21.95	23.00	1.274	0.12	0.652	0.830
21	FR1 N5	20M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	167300	836.5	23.25	24.00	1.189	0.19	0.127	**0.151**
	FR1 N5	20M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	167300	836.5	23.25	24.00	1.189	-0.03	0.053	0.063
	FR1 N5	20M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	167300	836.5	23.25	24.00	1.189	0.17	0.092	0.109
	FR1 N5	20M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	167300	836.5	23.25	24.00	1.189	-0.13	0.059	0.070
	FR1 N5	20M	BPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	167300	836.5	23.23	24.00	1.194	-0.07	0.116	0.139
	FR1 N5	20M	BPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	167300	836.5	23.23	24.00	1.194	-0.08	0.051	0.061
	FR1 N5	20M	BPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	167300	836.5	23.23	24.00	1.194	-0.13	0.084	0.100
	FR1 N5	20M	BPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	167300	836.5	23.23	24.00	1.194	0.05	0.055	0.066
	FR1 N70	15M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.29	24.00	1.178	0.01	0.270	0.318
	FR1 N70	15M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.29	24.00	1.178	0.13	0.181	0.213
	FR1 N70	15M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.29	24.00	1.178	-0.04	0.130	0.153
	FR1 N70	15M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.29	24.00	1.178	-0.07	0.066	0.078
22	FR1 N70	15M	BPSK	36	22	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.23	24.00	1.194	-0.12	0.273	**0.326**
	FR1 N70	15M	BPSK	36	22	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.23	24.00	1.194	-0.09	0.188	0.224
	FR1 N70	15M	BPSK	36	22	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.23	24.00	1.194	0.07	0.134	0.160
	FR1 N70	15M	BPSK	36	22	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	340500	1702.5	23.23	24.00	1.194	0.11	0.067	0.080
	FR1 N70	15M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.28	24.00	1.180	0.18	0.092	0.109
	FR1 N70	15M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.28	24.00	1.180	0.01	0.042	0.050

	FR1 N70	15M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.28	24.00	1.180	-0.12	0.066	0.078
	FR1 N70	15M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.28	24.00	1.180	0.16	0.063	0.074
	FR1 N70	15M	BPSK	36	22	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.24	24.00	1.191	0.14	0.090	0.107
	FR1 N70	15M	BPSK	36	22	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.24	24.00	1.191	0.13	0.040	0.048
	FR1 N70	15M	BPSK	36	22	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.24	24.00	1.191	-0.09	0.065	0.077
	FR1 N70	15M	BPSK	36	22	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	340500	1702.5	23.24	24.00	1.191	-0.19	0.062	0.074
23	FR1 N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	349000	1745	23.23	24.00	1.194	0.11	0.999	**1.193**
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	349000	1745	23.23	24.00	1.194	0.04	0.731	0.873
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	349000	1745	23.23	24.00	1.194	0.07	0.442	0.528
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	349000	1745	23.23	24.00	1.194	-0.12	0.244	0.291
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	349000	1745	23.17	24.00	1.211	0.04	0.976	1.182
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	349000	1745	23.17	24.00	1.211	0.05	0.717	0.868
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI2 / Full	349000	1745	23.17	24.00	1.211	-0.07	0.423	0.512
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI2 / Full	349000	1745	23.17	24.00	1.211	0.12	0.237	0.287
	FR1 N66	40M	BPSK	216	0	DFT-15	Right Cheek	0mm	Ant 2	DSI2 / Full	349000	1745	22.63	23.50	1.222	0.1	0.943	1.152
	FR1 N66	40M	BPSK	216	0	DFT-15	Right Tilted	0mm	Ant 2	DSI2 / Full	349000	1745	22.63	23.50	1.222	0.18	0.698	0.853
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.75	22.50	1.189	-0.15	0.738	0.877
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.75	22.50	1.189	0.18	0.527	0.626
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.75	22.50	1.189	-0.03	0.307	0.365
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.75	22.50	1.189	0.05	0.190	0.226
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.73	22.50	1.194	-0.1	0.728	0.869
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.73	22.50	1.194	0.16	0.515	0.615
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.73	22.50	1.194	-0.04	0.294	0.351
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.73	22.50	1.194	-0.06	0.187	0.223
	FR1 N66	40M	BPSK	216	0	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	349000	1745	21.70	22.50	1.202	-0.06	0.726	0.873
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	349000	1745	23.28	24.00	1.180	-0.11	0.132	0.156
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	349000	1745	23.28	24.00	1.180	-0.12	0.057	0.067
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	349000	1745	23.28	24.00	1.180	0.15	0.077	0.091
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	349000	1745	23.28	24.00	1.180	-0.08	0.073	0.086
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	349000	1745	23.22	24.00	1.197	0.07	0.118	0.141
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	349000	1745	23.22	24.00	1.197	-0.19	0.043	0.051
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	349000	1745	23.22	24.00	1.197	0.08	0.068	0.081
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	349000	1745	23.22	24.00	1.197	-0.16	0.061	0.073
24	FR1 N25	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 2	376500	1882.5	21.76	22.50	1.186	0.17	1.030	**1.221**
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 2	376500	1882.5	21.76	22.50	1.186	0.11	0.723	0.857
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 2	376500	1882.5	21.76	22.50	1.186	-0.14	0.375	0.445
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 2	376500	1882.5	21.76	22.50	1.186	0.12	0.263	0.312
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI 2	376500	1882.5	21.73	22.50	1.194	-0.07	0.958	1.144
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI 2	376500	1882.5	21.73	22.50	1.194	-0.15	0.710	0.848
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI 2	376500	1882.5	21.73	22.50	1.194	0.16	0.338	0.404
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI 2	376500	1882.5	21.73	22.50	1.194	0.13	0.236	0.282
	FR1 N25	40M	BPSK	216	0	DFT-15	Right Cheek	0mm	Ant 2	DSI 2	376500	1882.5	21.71	22.50	1.199	-0.16	0.955	1.146
	FR1 N25	40M	BPSK	216	0	DFT-15	Right Tilted	0mm	Ant 2	DSI 2	376500	1882.5	21.71	22.50	1.199	0.15	0.711	0.853
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.30	21.00	1.175	0.05	0.727	0.854
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.30	21.00	1.175	-0.18	0.526	0.618
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.30	21.00	1.175	-0.11	0.253	0.297
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.30	21.00	1.175	-0.19	0.198	0.233
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.28	21.00	1.180	-0.17	0.735	0.868
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.28	21.00	1.180	-0.13	0.527	0.622
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.28	21.00	1.180	0.1	0.243	0.287
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.28	21.00	1.180	0.11	0.195	0.230
	FR1 N25	40M	BPSK	216	0	DFT-15	Right Cheek	0mm	Ant 2	DSI 2 (Sim)	376500	1882.5	20.27	21.00	1.183	-0.18	0.730	0.864
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.30	24.00	1.175	0.13	0.071	0.083
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.30	24.00	1.175	-0.17	0.046	0.054
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.30	24.00	1.175	-0.01	0.062	0.073
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.30	24.00	1.175	0.19	0.057	0.067

	FR1 N25	40M	BPSK	108	54	DFT-15	Right Cheek	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.26	24.00	1.186	0.13	0.079	0.094
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Tilted	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.26	24.00	1.186	0.07	0.047	0.056
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Cheek	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.26	24.00	1.186	-0.14	0.059	0.070
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Tilted	0mm	Ant 1	DSI2 / Full	376500	1882.5	23.26	24.00	1.186	-0.1	0.061	0.072
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 8	DSI 2	462000	2310	18.14	19.00	1.219	0.14	0.648	0.790
25	FR1 N30	10M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 8	DSI 2	462000	2310	18.14	19.00	1.219	-0.16	0.907	**1.106**
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 8	DSI 2	462000	2310	18.14	19.00	1.219	0.1	0.425	0.518
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 8	DSI 2	462000	2310	18.14	19.00	1.219	-0.02	0.509	0.620
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Cheek	0mm	Ant 8	DSI 2	462000	2310	18.13	19.00	1.222	0.16	0.636	0.777
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Tilted	0mm	Ant 8	DSI 2	462000	2310	18.13	19.00	1.222	-0.17	0.882	1.078
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Cheek	0mm	Ant 8	DSI 2	462000	2310	18.13	19.00	1.222	0.06	0.410	0.501
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Tilted	0mm	Ant 8	DSI 2	462000	2310	18.13	19.00	1.222	0.02	0.500	0.611
	FR1 N30	10M	BPSK	50	0	DFT-15	Right Tilted	0mm	Ant 8	DSI 2	462000	2310	18.09	19.00	1.233	-0.17	0.891	1.099
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.55	17.50	1.245	-0.08	0.391	0.487
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.55	17.50	1.245	0.05	0.626	0.779
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.55	17.50	1.245	0.08	0.246	0.306
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.55	17.50	1.245	-0.02	0.329	0.409
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.53	17.50	1.250	-0.12	0.368	0.460
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.53	17.50	1.250	0.07	0.606	0.758
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.53	17.50	1.250	0.15	0.237	0.296
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	462000	2310	16.53	17.50	1.250	0.12	0.355	0.444
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	DSI2 / Full	462000	2310	23.30	24.00	1.175	0.19	0.067	0.079
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	DSI2 / Full	462000	2310	23.30	24.00	1.175	-0.03	0.064	0.075
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	DSI2 / Full	462000	2310	23.30	24.00	1.175	0.12	0.124	0.146
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	DSI2 / Full	462000	2310	23.30	24.00	1.175	0.17	0.052	0.061
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Cheek	0mm	Ant 7	DSI2 / Full	462000	2310	23.23	24.00	1.194	0.02	0.068	0.081
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Tilted	0mm	Ant 7	DSI2 / Full	462000	2310	23.23	24.00	1.194	-0.17	0.063	0.075
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Cheek	0mm	Ant 7	DSI2 / Full	462000	2310	23.23	24.00	1.194	-0.1	0.147	0.176
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Tilted	0mm	Ant 7	DSI2 / Full	462000	2310	23.23	24.00	1.194	0.13	0.054	0.064
	FR1 N41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.14	20.00	1.219	0.1	0.058	0.071
	FR1 N41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.14	20.00	1.219	0.06	0.056	0.068
	FR1 N41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.14	20.00	1.219	0.14	0.051	0.062
	FR1 N41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.14	20.00	1.219	-0.05	0.042	0.051
	FR1 N41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.12	20.00	1.225	0.03	0.044	0.054
	FR1 N41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.12	20.00	1.225	0.17	0.038	0.047
	FR1 N41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.12	20.00	1.225	0.06	0.040	0.049
	FR1 N41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI2 / Full	518598	2592.99	19.12	20.00	1.225	0.09	0.034	0.042
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.14	27.00	1.219	0.03	0.257	0.313
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.14	27.00	1.219	0.13	0.278	0.339
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.14	27.00	1.219	-0.15	0.383	0.467
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.14	27.00	1.219	0.14	0.166	0.202
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.06	27.00	1.242	0.15	0.246	0.305
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.06	27.00	1.242	0.19	0.255	0.317
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.06	27.00	1.242	0.01	0.397	0.493
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	DSI2 / Full	518598	2592.99	26.06	27.00	1.242	-0.02	0.160	0.199
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	18.39	19.50	1.291	-0.18	0.803	1.037
26	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	518598	2592.99	18.39	19.50	1.291	-0.11	0.935	**1.207**
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	518598	2592.99	18.39	19.50	1.291	-0.17	0.626	0.808
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	518598	2592.99	18.39	19.50	1.291	0.01	0.739	0.954
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	18.37	19.50	1.297	0.11	0.792	1.027
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	518598	2592.99	18.37	19.50	1.297	-0.1	0.928	1.204
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	518598	2592.99	18.37	19.50	1.297	-0.04	0.599	0.777
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	518598	2592.99	18.37	19.50	1.297	-0.09	0.720	0.934
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 8	DSI 2	518598	2592.99	18.35	19.50	1.303	0.17	0.785	1.023
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Right Tilted	0mm	Ant 8	DSI 2	518598	2592.99	18.35	19.50	1.303	0.17	0.917	1.195
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Left Cheek	0mm	Ant 8	DSI 2	518598	2592.99	18.35	19.50	1.303	-0.14	0.612	0.798

	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Left Tilted	0mm	Ant 8	DSI 2	518598	2592.99	18.35	19.50	1.303	-0.11	0.724	0.943
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.89	18.00	1.291	-0.12	0.511	0.660
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.89	18.00	1.291	0.16	0.612	0.790
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.89	18.00	1.291	0.15	0.410	0.529
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.89	18.00	1.291	0.05	0.475	0.613
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.88	18.00	1.294	-0.11	0.517	0.669
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.88	18.00	1.294	-0.12	0.605	0.783
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.88	18.00	1.294	-0.18	0.404	0.523
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.88	18.00	1.294	0.02	0.471	0.610
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.85	18.00	1.303	0.14	0.508	0.662
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Right Tilted	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.85	18.00	1.303	-0.16	0.604	0.787
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Left Tilted	0mm	Ant 8	DSI 2 (Sim)	518598	2592.99	16.85	18.00	1.303	0.01	0.466	0.607
	FR1 N41	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.07	20.00	1.239	0.17	0.135	0.167
	FR1 N41	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.07	20.00	1.239	0.11	0.153	0.190
	FR1 N41	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.07	20.00	1.239	-0.06	0.112	0.139
	FR1 N41	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.07	20.00	1.239	0.19	0.138	0.171
	FR1 N41	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.05	20.00	1.245	0.1	0.132	0.164
	FR1 N41	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.05	20.00	1.245	0.15	0.150	0.187
	FR1 N41	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.05	20.00	1.245	-0.16	0.112	0.139
	FR1 N41	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	DSI2 / Full	518598	2592.99	19.05	20.00	1.245	0.13	0.135	0.168
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.75	22.50	1.189	0.03	0.852	1.013
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI2	633334	3500.01	21.75	22.50	1.189	0.02	0.503	0.598
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.75	22.50	1.189	-0.11	0.306	0.364
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI2	633334	3500.01	21.75	22.50	1.189	0.11	0.284	0.338
27	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.74	22.50	1.191	-0.1	0.929	**1.107**
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI2	633334	3500.01	21.74	22.50	1.191	0.15	0.554	0.660
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.74	22.50	1.191	0.16	0.337	0.401
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI2	633334	3500.01	21.74	22.50	1.191	0.1	0.323	0.385
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.72	22.50	1.197	0.12	0.894	1.070
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.23	21.00	1.194	0.12	0.663	0.792
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.23	21.00	1.194	-0.06	0.383	0.457
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.23	21.00	1.194	-0.02	0.219	0.261
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.23	21.00	1.194	-0.11	0.211	0.252
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.21	21.00	1.199	0.04	0.710	0.852
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.21	21.00	1.199	-0.05	0.428	0.513
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.21	21.00	1.199	0.08	0.255	0.306
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.21	21.00	1.199	0.1	0.247	0.296
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	633334	3500.01	20.20	21.00	1.202	0.18	0.687	0.826
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI2	656000	3840	21.62	22.50	1.225	-0.04	0.661	0.809
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI2	656000	3840	21.62	22.50	1.225	-0.07	0.474	0.580
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI2	656000	3840	21.62	22.50	1.225	0.06	0.235	0.288
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI2	656000	3840	21.62	22.50	1.225	0.17	0.243	0.298
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI2	656000	3840	21.61	22.50	1.227	0.12	0.642	0.788
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI2	656000	3840	21.61	22.50	1.227	0.01	0.442	0.543
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI2	656000	3840	21.61	22.50	1.227	0.09	0.229	0.281
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI2	656000	3840	21.61	22.50	1.227	-0.04	0.231	0.284
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	DSI2	656000	3840	21.59	22.50	1.233	0.1	0.651	0.803
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	DSI2	656000	3840	21.59	22.50	1.233	0.12	0.457	0.564
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.15	21.00	1.216	0.03	0.478	0.581
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.15	21.00	1.216	-0.05	0.331	0.403
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.15	21.00	1.216	-0.1	0.171	0.208
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.15	21.00	1.216	-0.06	0.189	0.230
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.13	21.00	1.222	0.13	0.456	0.557
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.13	21.00	1.222	0.12	0.316	0.386
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.13	21.00	1.222	0.04	0.166	0.203
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.13	21.00	1.222	0.07	0.176	0.215

	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Right Cheek	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.11	21.00	1.227	0.02	0.458	0.562
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Right Tilted	0mm	Ant 4	DSI 2 (Sim)	656000	3840	20.11	21.00	1.227	-0.13	0.321	0.394
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.72	20.50	1.197	-0.13	0.102	0.122
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.72	20.50	1.197	0.07	0.109	0.130
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.72	20.50	1.197	0.09	0.098	0.117
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.72	20.50	1.197	0.05	0.125	0.150
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.64	20.50	1.219	-0.04	0.081	0.099
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.64	20.50	1.219	-0.05	0.088	0.107
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.64	20.50	1.219	-0.07	0.073	0.089
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI2 / Full	633334	3500.01	19.64	20.50	1.219	-0.03	0.070	0.085
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 5	DSI2 / Full	656000	3840	19.74	20.50	1.191	0.15	0.105	0.125
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 5	DSI2 / Full	656000	3840	19.74	20.50	1.191	-0.02	0.109	0.130
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 5	DSI2 / Full	656000	3840	19.74	20.50	1.191	-0.17	0.087	0.104
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 5	DSI2 / Full	656000	3840	19.74	20.50	1.191	0.04	0.093	0.111
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 5	DSI2 / Full	656000	3840	19.69	20.50	1.205	0.13	0.094	0.113
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 5	DSI2 / Full	656000	3840	19.69	20.50	1.205	0.14	0.098	0.118
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 5	DSI2 / Full	656000	3840	19.69	20.50	1.205	0.03	0.070	0.084
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 5	DSI2 / Full	656000	3840	19.69	20.50	1.205	-0.07	0.073	0.088
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.96	18.00	1.271	0.17	0.009	0.011
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.96	18.00	1.271	-0.1	0.003	0.004
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.96	18.00	1.271	-0.05	0.006	0.008
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.96	18.00	1.271	0.14	0.005	0.006
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.94	18.00	1.276	0.06	0.008	0.010
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.94	18.00	1.276	-0.04	0.004	0.005
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.94	18.00	1.276	0.01	0.009	0.011
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI2 / Full	633334	3500.01	16.94	18.00	1.276	0.17	0.003	0.004
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 6	DSI2 / Full	656000	3840	16.98	18.00	1.265	0.14	0.030	0.038
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 6	DSI2 / Full	656000	3840	16.98	18.00	1.265	0.11	0.014	0.018
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 6	DSI2 / Full	656000	3840	16.98	18.00	1.265	0.14	0.027	0.035
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 6	DSI2 / Full	656000	3840	16.98	18.00	1.265	0.05	0.020	0.025
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 6	DSI2 / Full	656000	3840	16.96	18.00	1.271	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 6	DSI2 / Full	656000	3840	16.96	18.00	1.271	0.02	0.012	0.015
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 6	DSI2 / Full	656000	3840	16.96	18.00	1.271	0.04	0.024	0.030
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 6	DSI2 / Full	656000	3840	16.96	18.00	1.271	0.01	0.012	0.015
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.13	18.00	1.222	0.09	0.010	0.012
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.13	18.00	1.222	-0.11	0.009	0.011
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.13	18.00	1.222	-0.05	0.007	0.009
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.13	18.00	1.222	0.01	0.010	0.012
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.09	18.00	1.233	0.01	0.013	0.016
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.09	18.00	1.233	-0.07	0.009	0.011
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.09	18.00	1.233	0.08	0.011	0.014
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 10	DSI2 / Full	633334	3500.01	17.09	18.00	1.233	0.02	0.012	0.015
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	DSI2 / Full	656000	3840	17.16	18.00	1.213	0.15	0.006	0.007
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	DSI2 / Full	656000	3840	17.16	18.00	1.213	0.12	0.006	0.007
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	DSI2 / Full	656000	3840	17.16	18.00	1.213	-0.07	0.011	0.013
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	DSI2 / Full	656000	3840	17.16	18.00	1.213	0.11	0.005	0.006
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	DSI2 / Full	656000	3840	17.14	18.00	1.219	-0.11	0.009	0.011
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Tilted	0mm	Ant 10	DSI2 / Full	656000	3840	17.14	18.00	1.219	-0.03	0.007	0.009
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Cheek	0mm	Ant 10	DSI2 / Full	656000	3840	17.14	18.00	1.219	0.18	0.010	0.012
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Tilted	0mm	Ant 10	DSI2 / Full	656000	3840	17.14	18.00	1.219	0.18	0.005	0.006

<WLAN2.4G SAR>

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)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Standalone	1	2412	17.10	18.00	1.230	99.29	1.007	0.17	0.367	0.455
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Standalone	1	2412	17.10	18.00	1.230	99.29	1.007	-0.01	0.316	0.391
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Standalone	1	2412	17.10	18.00	1.230	99.29	1.007	-0.02	0.714	0.885
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Standalone	1	2412	17.10	18.00	1.230	99.29	1.007	-0.06	0.536	0.664
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Standalone	6	2437	16.90	18.00	1.288	99.29	1.007	0.07	0.824	1.069
28	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Standalone	11	2462	17.00	18.00	1.259	99.29	1.007	-0.05	0.934	**1.184**
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Simultaneous	1	2412	13.10	14.50	1.380	99.29	1.007	-0.01	0.142	0.197
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Simultaneous	1	2412	13.10	14.50	1.380	99.29	1.007	-0.19	0.113	0.157
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Simultaneous	1	2412	13.10	14.50	1.380	99.29	1.007	-0.03	0.285	0.396
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Simultaneous	1	2412	13.10	14.50	1.380	99.29	1.007	0.03	0.194	0.270
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Simultaneous	6	2437	12.90	14.50	1.445	99.29	1.007	-0.18	0.269	0.392
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Simultaneous	11	2462	13.00	14.50	1.413	99.29	1.007	0.12	0.306	0.435

<WLAN5G SAR>

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)
	WLAN5.3GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	-0.04	0.130	0.152
	WLAN5.3GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	-0.04	0.170	0.199
	WLAN5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	0.11	0.135	0.158
29	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	-0.13	0.183	**0.215**
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	52	5260	20.21	21.00	1.199	98.13	1.019	0.08	0.136	0.166
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	56	5280	20.26	21.00	1.186	98.13	1.019	0.04	0.159	0.192
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	64	5320	20.33	21.00	1.167	98.13	1.019	0.12	0.177	0.210
	WLAN5.3GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Simultaneous	60	5300	20.39	21.00	1.151	98.13	1.019	-0.04	0.130	0.152
	WLAN5.3GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Simultaneous	60	5300	20.39	21.00	1.151	98.13	1.019	-0.04	0.170	0.199
	WLAN5.3GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Simultaneous	60	5300	20.39	21.00	1.151	98.13	1.019	0.11	0.135	0.158
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Simultaneous	60	5300	20.39	21.00	1.151	98.13	1.019	-0.13	0.183	0.215
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Simultaneous	52	5260	20.21	21.00	1.199	98.13	1.019	0.08	0.136	0.166
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Simultaneous	56	5280	20.26	21.00	1.186	98.13	1.019	0.04	0.159	0.192
	WLAN5.3GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Simultaneous	64	5320	20.33	21.00	1.167	98.13	1.019	0.12	0.177	0.210
	WLAN5.5GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.13	0.272	0.353
	WLAN5.5GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	-0.13	0.351	0.455
	WLAN5.5GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.11	0.346	0.449
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.08	0.495	0.642
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	100	5500	20.37	21.50	1.297	98.13	1.019	-0.18	0.477	0.631
	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	132	5660	20.31	21.50	1.315	98.13	1.019	-0.12	0.406	0.544
30	WLAN5.5GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	140	5700	20.34	21.50	1.306	98.13	1.019	-0.15	0.509	**0.677**
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5	Simultaneous	110	5550	17.73	19.50	1.503	96.77	1.033	0.01	0.124	0.193
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5	Simultaneous	110	5550	17.73	19.50	1.503	96.77	1.033	-0.05	0.154	0.239
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5	Simultaneous	110	5550	17.73	19.50	1.503	96.77	1.033	-0.13	0.141	0.219
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	110	5550	17.73	19.50	1.503	96.77	1.033	-0.17	0.170	0.264
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	102	5510	17.62	19.50	1.542	96.77	1.033	-0.09	0.137	0.218
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	134	5670	17.51	19.50	1.581	96.77	1.033	0.16	0.249	0.407
	WLAN5.8GHz	802.11a 6Mbps	Right Cheek	0mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	0.01	0.273	0.415
	WLAN5.8GHz	802.11a 6Mbps	Right Tilted	0mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	0.07	0.316	0.481
	WLAN5.8GHz	802.11a 6Mbps	Left Cheek	0mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	0.14	0.517	0.786
31	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	-0.07	0.532	**0.809**
	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	149	5745	20.13	22.00	1.538	98.13	1.019	0.14	0.489	0.766
	WLAN5.8GHz	802.11a 6Mbps	Left Tilted	0mm	Ant 5	Full	165	5825	20.15	22.00	1.531	98.13	1.019	-0.03	0.504	0.786
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5	Simultaneous	155	5775	17.62	19.50	1.542	91.95	1.088	-0.14	0.178	0.299
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5	Simultaneous	155	5775	17.62	19.50	1.542	91.95	1.088	-0.07	0.182	0.305
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5	Simultaneous	155	5775	17.62	19.50	1.542	91.95	1.088	0.06	0.227	0.381
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5	Simultaneous	155	5775	17.62	19.50	1.542	91.95	1.088	0.05	0.252	0.423

<Bluetooth SAR>

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)
	Bluetooth	DH5 1Mbps	Right Cheek	0mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	0.11	0.120	0.183
	Bluetooth	DH5 1Mbps	Right Tilted	0mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	-0.03	0.089	0.136
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	0.15	0.223	0.341
	Bluetooth	DH5 1Mbps	Left Tilted	0mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	-0.01	0.170	0.260
	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	39	2441	10.60	12.50	1.549	76.9	1.300	-0.12	0.200	0.403
32	Bluetooth	DH5 1Mbps	Left Cheek	0mm	Ant 3	Full	78	2480	10.60	12.50	1.549	76.9	1.300	0.02	0.214	**0.431**

16.2 Hotspot SAR

<GSM SAR>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 1	DSI 3 (Sim)	128	824.2	26.49	28.00	1.416	0.15	0.446	0.631
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	DSI 3 (Sim)	128	824.2	26.49	28.00	1.416	-0.08	0.805	1.140
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	DSI 3 (Sim)	189	836.4	26.22	28.00	1.507	0.12	0.632	0.952
33	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	DSI 3 (Sim)	251	848.8	26.42	28.00	1.439	0.05	0.868	**1.249**
	GSM850	GPRS 4 Tx slots	Left Side	5mm	Ant 1	DSI 3 (Sim)	128	824.2	26.49	28.00	1.416	-0.06	0.155	0.219
	GSM850	GPRS 4 Tx slots	Right Side	5mm	Ant 1	DSI 3 (Sim)	128	824.2	26.49	28.00	1.416	-0.16	0.217	0.307
	GSM850	GPRS 4 Tx slots	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	128	824.2	26.49	28.00	1.416	0.04	0.506	0.716
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	-0.06	0.422	0.514
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	-0.19	0.687	0.837
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3 (Sim)	512	1850.2	20.11	21.50	1.377	-0.05	0.543	0.748
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3 (Sim)	661	1880	20.23	21.50	1.340	-0.08	0.549	0.735
	GSM1900	GPRS 3 Tx slots	Left Side	5mm	Ant 1	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	0.19	0.059	0.072
	GSM1900	GPRS 3 Tx slots	Right Side	5mm	Ant 1	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	-0.18	0.045	0.055
34	GSM1900	GPRS 3 Tx slots	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	-0.03	1.040	**1.268**
	GSM1900	GPRS 3 Tx slots	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	512	1850.2	20.11	21.50	1.377	0.13	0.902	1.242
	GSM1900	GPRS 3 Tx slots	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	661	1880	20.23	21.50	1.340	0.1	0.686	0.919

<WCDMA SAR>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3 (Sim)	4132	826.4	22.36	23.00	1.159	-0.19	0.523	0.606
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 (Sim)	4132	826.4	22.36	23.00	1.159	-0.14	0.891	1.032
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 (Sim)	4182	836.4	22.35	23.00	1.161	-0.16	0.920	1.069
35	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 (Sim)	4233	846.6	22.28	23.00	1.180	0.05	0.943	**1.113**
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3 (Sim)	4132	826.4	22.36	23.00	1.159	0.14	0.142	0.165
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3 (Sim)	4132	826.4	22.36	23.00	1.159	0.02	0.192	0.222
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	4132	826.4	22.36	23.00	1.159	0.09	0.627	0.727
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	0.04	0.492	0.612
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	0.13	0.588	0.732
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	0.04	0.047	0.058
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	-0.07	0.045	0.056
36	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	-0.03	0.869	**1.081**
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	1312	1712.4	16.47	17.50	1.268	-0.15	0.822	1.042
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	1413	1732.6	16.34	17.50	1.306	0.05	0.804	1.050
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	-0.06	0.458	0.554
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	0.02	0.574	0.695
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	-0.1	0.048	0.058
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	0.12	0.024	0.029
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	-0.19	0.832	1.007
37	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	9400	1880	15.54	16.50	1.247	0.03	0.887	**1.106**
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	9538	1907.6	15.60	16.50	1.230	-0.17	0.871	1.072

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	99	Front	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	23.18	24.00	1.208	-0.07	0.277	0.335
	LTE Band 71	20M	QPSK	1	99	Back	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	23.18	24.00	1.208	0.09	0.393	0.475
	LTE Band 71	20M	QPSK	1	99	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	23.18	24.00	1.208	0.13	0.476	0.575
	LTE Band 71	20M	QPSK	1	99	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	23.18	24.00	1.208	0.13	0.142	0.172
	LTE Band 71	20M	QPSK	1	99	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	23.18	24.00	1.208	0.03	0.405	0.489
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	22.36	23.00	1.159	-0.05	0.232	0.269
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	22.36	23.00	1.159	-0.16	0.327	0.379
	LTE Band 71	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	22.36	23.00	1.159	-0.03	0.395	0.458
	LTE Band 71	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	22.36	23.00	1.159	-0.09	0.124	0.144
	LTE Band 71	20M	QPSK	50	0	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	133322	683	22.36	23.00	1.159	0.02	0.340	0.394
	LTE Band 71	20M	QPSK	1	99	Front	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.89	24.00	1.291	-0.06	0.421	0.544
38	LTE Band 71	20M	QPSK	1	99	Back	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.89	24.00	1.291	0.01	0.783	**1.011**
	LTE Band 71	20M	QPSK	1	99	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.89	24.00	1.291	0.16	0.275	0.355
	LTE Band 71	20M	QPSK	1	99	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.89	24.00	1.291	0.19	0.403	0.520
	LTE Band 71	20M	QPSK	1	99	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.89	24.00	1.291	0.09	0.604	0.780
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.09	23.00	1.233	0.14	0.212	0.261
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.09	23.00	1.233	0.02	0.413	0.509
	LTE Band 71	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.09	23.00	1.233	-0.16	0.142	0.175
	LTE Band 71	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.09	23.00	1.233	-0.1	0.211	0.260
	LTE Band 71	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.09	23.00	1.233	-0.19	0.323	0.398
	LTE Band 71	20M	QPSK	100	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	133322	683	22.05	23.00	1.245	0.05	0.411	0.511
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	0.11	0.251	0.312
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	-0.01	0.471	0.586
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	0.05	0.432	0.538
	LTE Band 12	10M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	0.08	0.145	0.180
	LTE Band 12	10M	QPSK	1	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	-0.18	0.278	0.346
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	-0.11	0.187	0.234
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	0.16	0.350	0.439
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	0.19	0.307	0.385
	LTE Band 12	10M	QPSK	25	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	-0.18	0.108	0.135
	LTE Band 12	10M	QPSK	25	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	-0.06	0.207	0.259
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	23.09	24.00	1.233	-0.04	0.525	0.647
39	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	23.09	24.00	1.233	0.05	0.897	**1.106**
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	23.09	24.00	1.233	-0.15	0.231	0.285
	LTE Band 12	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	23.09	24.00	1.233	0.06	0.371	0.457
	LTE Band 12	10M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	23.09	24.00	1.233	0.11	0.673	0.830
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.30	23.00	1.175	-0.06	0.284	0.334
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.30	23.00	1.175	-0.14	0.458	0.538
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.30	23.00	1.175	-0.11	0.147	0.173
	LTE Band 12	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.30	23.00	1.175	-0.03	0.263	0.309
	LTE Band 12	10M	QPSK	25	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.30	23.00	1.175	-0.1	0.381	0.448
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.28	23.00	1.180	0.08	0.455	0.537
	LTE Band 12	10M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23095	707.5	22.28	23.00	1.180	0.11	0.376	0.444
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	0.03	0.334	0.430
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	0.01	0.437	0.563
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	-0.02	0.292	0.376
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	-0.08	0.052	0.067
	LTE Band 13	10M	QPSK	1	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	-0.19	0.377	0.486
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	-0.01	0.299	0.388
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	-0.07	0.408	0.529
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	-0.18	0.266	0.345
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	0.11	0.050	0.065

	LTE Band 13	10M	QPSK	25	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	-0.01	0.351	0.455
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	22.97	24.00	1.268	0.06	0.438	0.555
40	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	22.97	24.00	1.268	0.17	0.729	**0.924**
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	22.97	24.00	1.268	0.15	0.193	0.245
	LTE Band 13	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	22.97	24.00	1.268	0.11	0.305	0.387
	LTE Band 13	10M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	22.97	24.00	1.268	-0.1	0.437	0.554
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	21.91	23.00	1.285	0.13	0.286	0.368
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	21.91	23.00	1.285	0.17	0.421	0.541
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	21.91	23.00	1.285	-0.18	0.139	0.179
	LTE Band 13	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	21.91	23.00	1.285	0.12	0.210	0.270
	LTE Band 13	10M	QPSK	25	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	21.91	23.00	1.285	0.16	0.323	0.415
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23230	782	21.88	23.00	1.294	0.07	0.433	0.560
	LTE Band 14	10M	QPSK	1	0	Front	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	0.18	0.381	0.467
	LTE Band 14	10M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	0.04	0.463	0.567
	LTE Band 14	10M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	-0.14	0.293	0.359
	LTE Band 14	10M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	0.11	0.122	0.149
	LTE Band 14	10M	QPSK	1	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	-0.13	0.394	0.482
	LTE Band 14	10M	QPSK	25	0	Front	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	-0.09	0.332	0.408
	LTE Band 14	10M	QPSK	25	0	Back	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	0.13	0.410	0.504
	LTE Band 14	10M	QPSK	25	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	-0.11	0.253	0.311
	LTE Band 14	10M	QPSK	25	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	-0.12	0.106	0.130
	LTE Band 14	10M	QPSK	25	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	0.06	0.343	0.422
	LTE Band 14	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	23.07	24.00	1.239	-0.13	0.513	0.636
41	LTE Band 14	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	23.07	24.00	1.239	0.19	0.954	**1.182**
	LTE Band 14	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	23.07	24.00	1.239	-0.12	0.191	0.237
	LTE Band 14	10M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	23.07	24.00	1.239	-0.09	0.333	0.413
	LTE Band 14	10M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	23.07	24.00	1.239	-0.06	0.554	0.686
	LTE Band 14	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	22.28	23.00	1.180	0.18	0.272	0.321
	LTE Band 14	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	22.28	23.00	1.180	0.07	0.494	0.583
	LTE Band 14	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	22.28	23.00	1.180	0.11	0.097	0.114
	LTE Band 14	10M	QPSK	25	0	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	22.28	23.00	1.180	-0.14	0.175	0.207
	LTE Band 14	10M	QPSK	25	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	22.28	23.00	1.180	0.12	0.303	0.358
	LTE Band 14	10M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim) / Full	23330	793	22.16	23.00	1.213	0.04	0.488	0.592
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	-0.11	0.319	0.377
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	-0.19	0.401	0.474
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	26765	821.5	21.68	22.50	1.208	-0.13	0.381	0.460
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	26965	841.5	21.49	22.50	1.262	-0.08	0.426	0.538
	LTE Band 26	15M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	0.07	0.252	0.298
	LTE Band 26	15M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	-0.15	0.069	0.082
	LTE Band 26	15M	QPSK	1	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	-0.15	0.302	0.357
	LTE Band 5B	10M	QPSK	1	49	Back	5mm	Ant 2	DSI 3 (Sim)	20575 +20476	841.5 +831.6	21.63	22.50	1.222	0.05	0.403	0.492
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	-0.15	0.311	0.370
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	0.17	0.395	0.469
	LTE Band 26	15M	QPSK	36	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	0.02	0.250	0.297
	LTE Band 26	15M	QPSK	36	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	-0.13	0.069	0.082
	LTE Band 26	15M	QPSK	36	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	-0.1	0.299	0.355
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.14	23.00	1.219	-0.04	0.505	0.616
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.14	23.00	1.219	-0.06	0.853	1.040
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	26765	821.5	22.12	23.00	1.225	-0.06	0.866	1.061
42	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	26965	841.5	22.05	23.00	1.245	-0.14	0.965	**1.201**
	LTE Band 26	15M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.14	23.00	1.219	0.16	0.075	0.091
	LTE Band 26	15M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.14	23.00	1.219	-0.03	0.131	0.160
	LTE Band 26	15M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.14	23.00	1.219	-0.13	0.310	0.378
	LTE Band 5B	10M	QPSK	1	49	Back	5mm	Ant 1	DSI 3 (Sim)	20575 +20476	841.5 +831.6	21.88	23.00	1.294	0.08	0.909	1.176
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.11	23.00	1.227	0.09	0.381	0.468

	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.11	23.00	1.227	0.18	0.650	0.798
	LTE Band 26	15M	QPSK	36	0	Left Side	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.11	23.00	1.227	0.05	0.058	0.071
	LTE Band 26	15M	QPSK	36	0	Right Side	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.11	23.00	1.227	-0.06	0.091	0.112
	LTE Band 26	15M	QPSK	36	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.11	23.00	1.227	-0.1	0.246	0.302
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 1	DSI 3 (Sim)	26865	831.5	22.09	23.00	1.233	0.13	0.645	0.795
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	-0.18	0.245	0.304
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	-0.12	0.386	0.478
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	0.04	0.420	0.520
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	132322	1745	19.06	20.00	1.242	0.13	0.416	0.517
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	132572	1770	19.03	20.00	1.250	0.08	0.418	0.523
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	-0.18	0.028	0.035
	LTE Band 66	20M	QPSK	1	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	-0.08	0.153	0.190
	LTE Band 66C	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	132572 +132374	1770 +1750.2	19.04	20.00	1.247	-0.05	0.411	0.513
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	-0.09	0.231	0.287
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	0.12	0.375	0.467
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	-0.03	0.412	0.513
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	-0.19	0.026	0.032
	LTE Band 66	20M	QPSK	50	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	-0.1	0.151	0.188
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	-0.17	0.365	0.444
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	-0.02	0.669	0.814
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	132322	1745	16.56	17.50	1.242	0.18	0.652	0.810
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	132572	1770	16.54	17.50	1.247	-0.07	0.661	0.825
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	0.17	0.037	0.045
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	-0.12	0.049	0.060
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	-0.02	0.916	1.114
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132322	1745	16.56	17.50	1.242	-0.06	0.943	1.171
43	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132572	1770	16.54	17.50	1.247	0.12	1.010	**1.260**
	LTE Band 66C	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132572 +132374	1770 +1750.2	16.62	17.50	1.225	0.08	0.978	1.198
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	0.04	0.361	0.442
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	0.14	0.662	0.811
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim)	132322	1745	16.54	17.50	1.247	-0.18	0.646	0.806
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim)	132572	1770	16.52	17.50	1.253	0.07	0.653	0.818
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	0.04	0.035	0.043
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	-0.19	0.048	0.059
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	0.11	0.901	1.103
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132322	1745	16.54	17.50	1.247	0.05	0.935	1.166
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132572	1770	16.52	17.50	1.253	-0.02	1.000	1.253
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.60	17.50	1.230	0.06	0.657	0.808
	LTE Band 66	20M	QPSK	100	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	132072	1720	16.60	17.50	1.230	0.11	0.893	1.099
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	-0.16	0.195	0.243
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	0.09	0.422	0.525
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	26140	1860	18.46	19.50	1.271	-0.09	0.375	0.476
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3 (Sim)	26590	1905	18.52	19.50	1.253	0.06	0.361	0.452
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	0.09	0.342	0.426
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	-0.15	0.016	0.020
	LTE Band 25	20M	QPSK	1	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	-0.13	0.161	0.200
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	0.16	0.192	0.241
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	0.17	0.415	0.520
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	0.01	0.333	0.417
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	-0.1	0.017	0.021
	LTE Band 25	20M	QPSK	50	0	Top Side	5mm	Ant 2	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	-0.14	0.168	0.211
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	0.17	0.468	0.567
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	-0.08	0.613	0.742
	LTE Band 25	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	-0.19	0.040	0.048
	LTE Band 25	20M	QPSK	1	0	Right Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	0.09	0.015	0.018

	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	-0.16	0.880	1.065
	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26140	1860	15.59	16.50	1.233	0.14	0.811	1.000
44	LTE Band 25	20M	QPSK	1	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26590	1905	15.47	16.50	1.268	0.15	0.931	**1.180**
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	-0.01	0.465	0.567
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	-0.14	0.606	0.739
	LTE Band 25	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	-0.14	0.041	0.050
	LTE Band 25	20M	QPSK	50	0	Right Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	0.02	0.015	0.018
	LTE Band 25	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	-0.12	0.881	1.074
	LTE Band 25	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26140	1860	15.58	16.50	1.236	-0.16	0.807	0.997
	LTE Band 25	20M	QPSK	50	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26590	1905	15.45	16.50	1.274	0.04	0.925	1.178
	LTE Band 25	20M	QPSK	100	0	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	26340	1880	15.62	16.50	1.225	0.11	0.873	1.069
	LTE Band 30	10M	QPSK	1	25	Front	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	-0.19	0.137	0.183
	LTE Band 30	10M	QPSK	1	25	Back	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	0.08	0.220	0.293
	LTE Band 30	10M	QPSK	1	25	Left Side	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	0.09	0.052	0.069
	LTE Band 30	10M	QPSK	1	25	Right Side	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	-0.01	0.006	0.008
	LTE Band 30	10M	QPSK	1	25	Top Side	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	0.13	0.324	0.432
	LTE Band 30	10M	QPSK	25	0	Front	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	0.17	0.140	0.188
	LTE Band 30	10M	QPSK	25	0	Back	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	-0.18	0.215	0.289
	LTE Band 30	10M	QPSK	25	0	Left Side	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	-0.15	0.053	0.071
	LTE Band 30	10M	QPSK	25	0	Right Side	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	0.05	0.007	0.009
	LTE Band 30	10M	QPSK	25	0	Top Side	5mm	Ant 8	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	0.03	0.320	0.430
	LTE Band 30	10M	QPSK	1	25	Front	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.17	0.432	0.549
	LTE Band 30	10M	QPSK	1	25	Back	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.11	0.743	0.944
	LTE Band 30	10M	QPSK	1	25	Left Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.18	0.327	0.415
	LTE Band 30	10M	QPSK	1	25	Right Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.01	0.068	0.086
45	LTE Band 30	10M	QPSK	1	25	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.11	0.777	**0.987**
	LTE Band 30	10M	QPSK	25	0	Front	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	0.08	0.427	0.546
	LTE Band 30	10M	QPSK	25	0	Back	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	0.12	0.739	0.945
	LTE Band 30	10M	QPSK	25	0	Left Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	-0.02	0.324	0.415
	LTE Band 30	10M	QPSK	25	0	Right Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	-0.17	0.067	0.086
	LTE Band 30	10M	QPSK	25	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	-0.03	0.761	0.974
	LTE Band 30	10M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.90	22.00	1.288	-0.08	0.725	0.934
	LTE Band 30	10M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	27710	2310	20.90	22.00	1.288	0.15	0.763	0.983
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.58	22.50	1.236	0.02	0.823	1.017
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 7	DSI 3 (Sim)	20850	2510	21.54	22.50	1.247	0.06	0.786	0.980
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 7	DSI 3 (Sim)	21350	2560	21.51	22.50	1.256	0.1	0.837	1.051
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.58	22.50	1.236	-0.13	0.998	1.233
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3 (Sim)	20850	2510	21.54	22.50	1.247	-0.08	0.933	1.164
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3 (Sim)	21350	2560	21.51	22.50	1.256	-0.12	0.976	1.226
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.58	22.50	1.236	-0.19	0.546	0.675
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.58	22.50	1.236	-0.06	0.148	0.183
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.58	22.50	1.236	0.13	0.990	1.224
46	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	20850	2510	21.54	22.50	1.247	0.14	1.010	**1.260**
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	21350	2560	21.51	22.50	1.256	0.08	0.930	1.168
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.56	22.50	1.242	-0.05	0.819	1.017
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 3 (Sim)	20850	2510	21.51	22.50	1.256	0.03	0.776	0.975
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 3 (Sim)	21350	2560	21.49	22.50	1.262	0.07	0.825	1.041
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.56	22.50	1.242	-0.15	0.991	1.230
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	20850	2510	21.51	22.50	1.256	0.05	0.934	1.173
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	21350	2560	21.49	22.50	1.262	-0.14	0.969	1.223
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.56	22.50	1.242	0.04	0.535	0.664
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.56	22.50	1.242	0.12	0.150	0.186
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.56	22.50	1.242	0.16	0.970	1.204
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	20850	2510	21.51	22.50	1.256	-0.18	0.995	1.250
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	21350	2560	21.49	22.50	1.262	-0.05	0.933	1.177
	LTE Band 7	20M	QPSK	100	0	Front	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.52	22.50	1.253	0.06	0.808	1.013

	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.52	22.50	1.253	0.13	0.957	1.199
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	21100	2535	21.52	22.50	1.253	0.07	0.972	1.218

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	0.05	0.149	0.185
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	-0.18	0.300	0.373
	LTE Band 41	20M	QPSK	1	99	Left Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	0.12	0.039	0.048
	LTE Band 41	20M	QPSK	1	99	Right Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	-0.03	0.015	0.019
	LTE Band 41	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	-0.16	0.464	0.577
	LTE Band 41	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	39750	2506	14.67	15.90	1.327	62.9	1.006	0.02	0.394	0.526
	LTE Band 41	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	40620	2593	14.77	15.90	1.297	62.9	1.006	-0.05	0.453	0.591
	LTE Band 41	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	41055	2636.5	14.66	15.90	1.330	62.9	1.006	-0.02	0.401	0.537
	LTE Band 41	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	41490	2680	14.90	15.90	1.259	62.9	1.006	0.04	0.356	0.451
	LTE Band 41C	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	40620 +40818	2593 +2612.8	14.96	15.90	1.242	62.9	1.006	0.16	0.432	0.540
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	0.11	0.145	0.181
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	-0.19	0.292	0.365
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	0.07	0.037	0.046
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	-0.14	0.016	0.020
	LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	-0.1	0.457	0.571
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	-0.09	0.415	0.517
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	0.01	0.551	0.687
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	39750	2506	19.74	20.90	1.306	62.9	1.006	0.1	0.509	0.669
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	40620	2593	19.66	20.90	1.330	62.9	1.006	0.12	0.507	0.679
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	19.69	20.90	1.321	62.9	1.006	0.16	0.620	0.824
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	41490	2680	19.73	20.90	1.309	62.9	1.006	-0.07	0.616	0.811
	LTE Band 41	20M	QPSK	1	99	Left Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	0.13	0.314	0.391
	LTE Band 41	20M	QPSK	1	99	Right Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	-0.1	0.082	0.102
	LTE Band 41	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	0.12	0.619	0.771
	LTE Band 41	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	39750	2506	19.74	20.90	1.306	62.9	1.006	0.15	0.576	0.757
	LTE Band 41	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40620	2593	19.66	20.90	1.330	62.9	1.006	-0.1	0.664	0.889
47	LTE Band 41	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	19.69	20.90	1.321	62.9	1.006	-0.09	0.713	**0.948**
	LTE Band 41	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41490	2680	19.73	20.90	1.309	62.9	1.006	0.13	0.665	0.876
	LTE Band 41C	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41055 +41253	2636.5 +2656.3	19.89	20.90	1.262	62.9	1.006	0.12	0.703	0.892
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	-0.19	0.414	0.520
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	-0.03	0.553	0.694
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	39750	2506	19.72	20.90	1.312	62.9	1.006	0.09	0.503	0.664
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	40620	2593	19.65	20.90	1.334	62.9	1.006	-0.14	0.513	0.688
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	19.67	20.90	1.327	62.9	1.006	-0.12	0.608	0.812
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	41490	2680	19.70	20.90	1.318	62.9	1.006	-0.16	0.607	0.805
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	-0.1	0.338	0.424
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	-0.12	0.094	0.118
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	0.03	0.611	0.767
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	39750	2506	19.72	20.90	1.312	62.9	1.006	-0.07	0.559	0.738
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40620	2593	19.65	20.90	1.334	62.9	1.006	0.03	0.660	0.885
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	19.67	20.90	1.327	62.9	1.006	0.15	0.691	0.923
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41490	2680	19.70	20.90	1.318	62.9	1.006	-0.02	0.654	0.867
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.92	20.90	1.253	62.9	1.006	0.03	0.547	0.690
	LTE Band 41	20M	QPSK	100	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	19.92	20.90	1.253	62.9	1.006	0.17	0.601	0.758
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	-0.1	0.139	0.167
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	0.1	0.321	0.387
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	-0.14	0.046	0.055
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	0.06	0.022	0.027
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	-0.09	0.447	0.539

	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	39750	2506	16.57	17.50	1.239	42.9	1.009	-0.14	0.465	0.581
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	40620	2593	16.66	17.50	1.213	42.9	1.009	-0.08	0.495	0.606
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	41055	2636.5	16.45	17.50	1.274	42.9	1.009	0.02	0.438	0.563
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	5mm	Ant 8	DSI 3 (Sim)	41490	2680	16.53	17.50	1.250	42.9	1.009	0.13	0.351	0.443
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	0.03	0.134	0.162
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	-0.03	0.315	0.381
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	0.02	0.041	0.050
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	0.19	0.022	0.027
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	0.14	0.436	0.528
	LTE Band 41(HPUE)	20M	QPSK	100	0	Top Side	5mm	Ant 8	DSI 3 (Sim)	40185	2549.5	16.69	17.50	1.205	42.9	1.009	0.08	0.428	0.520
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	-0.13	0.408	0.497
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	-0.05	0.548	0.668
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	39750	2506	21.45	22.50	1.274	42.9	1.009	-0.06	0.522	0.671
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	40620	2593	21.59	22.50	1.233	42.9	1.009	0.13	0.564	0.702
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	21.54	22.50	1.247	42.9	1.009	0.08	0.613	0.772
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	DSI 3 (Sim)	41490	2680	21.52	22.50	1.253	42.9	1.009	0.17	0.599	0.757
	LTE Band 41(HPUE)	20M	QPSK	1	99	Left Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	0.13	0.311	0.379
	LTE Band 41(HPUE)	20M	QPSK	1	99	Right Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	0.09	0.090	0.110
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	0.17	0.631	0.769
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	39750	2506	21.45	22.50	1.274	42.9	1.009	0.17	0.610	0.784
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40620	2593	21.59	22.50	1.233	42.9	1.009	0.13	0.622	0.774
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	21.54	22.50	1.247	42.9	1.009	0.05	0.691	0.870
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41490	2680	21.52	22.50	1.253	42.9	1.009	-0.1	0.660	0.835
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	0.18	0.398	0.488
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	0.1	0.542	0.665
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	39750	2506	21.43	22.50	1.279	42.9	1.009	-0.13	0.508	0.656
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	40620	2593	21.55	22.50	1.245	42.9	1.009	0.16	0.554	0.696
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	21.52	22.50	1.253	42.9	1.009	0.08	0.592	0.749
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3 (Sim)	41490	2680	21.50	22.50	1.259	42.9	1.009	0.02	0.583	0.741
	LTE Band 41(HPUE)	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	-0.14	0.301	0.369
	LTE Band 41(HPUE)	20M	QPSK	50	0	Right Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	0.1	0.092	0.113
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	-0.13	0.618	0.758
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	39750	2506	21.43	22.50	1.279	42.9	1.009	-0.16	0.590	0.762
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40620	2593	21.55	22.50	1.245	42.9	1.009	0.12	0.615	0.772
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41055	2636.5	21.52	22.50	1.253	42.9	1.009	-0.14	0.661	0.836
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	41490	2680	21.50	22.50	1.259	42.9	1.009	0.16	0.643	0.817
	LTE Band 41(HPUE)	20M	QPSK	100	0	Back	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.63	22.50	1.222	42.9	1.009	0.03	0.535	0.660
	LTE Band 41(HPUE)	20M	QPSK	100	0	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	40185	2549.5	21.63	22.50	1.222	42.9	1.009	0.12	0.620	0.764
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	0.01	0.080	0.095
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	-0.04	0.385	0.456
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	DSI 3 (Sim)	55340	3560	15.73	16.50	1.194	62.9	1.006	-0.09	0.376	0.452
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	DSI 3 (Sim)	56150	3641	15.76	16.50	1.186	62.9	1.006	0.12	0.393	0.469
48	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	DSI 3 (Sim)	56640	3690	15.75	16.50	1.189	62.9	1.006	-0.18	0.439	**0.525**
	LTE Band 48	20M	QPSK	1	99	Left Side	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	0.12	0.211	0.250
	LTE Band 48	20M	QPSK	1	99	Right Side	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	-0.18	0.014	0.017
	LTE Band 48	20M	QPSK	1	99	Top Side	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	-0.09	0.079	0.094
	LTE Band 48C	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3 (Sim)	56640 +56442	3690 +3670.2	15.75	16.50	1.189	62.9	1.006	0.05	0.414	0.495
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	0.08	0.077	0.091
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	0.02	0.371	0.441
	LTE Band 48	20M	QPSK	50	0	Left Side	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	-0.08	0.209	0.248
	LTE Band 48	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	0.07	0.016	0.019
	LTE Band 48	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	0.04	0.072	0.085

<5GNR NSA 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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 N71	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.10	24.00	1.230	-0.03	0.093	0.114
	FR1 N71	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.10	24.00	1.230	-0.09	0.236	0.290
49	FR1 N71	20M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.10	24.00	1.230	0.09	0.363	**0.447**
	FR1 N71	20M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.10	24.00	1.230	-0.18	0.050	0.062
	FR1 N71	20M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.10	24.00	1.230	0.06	0.175	0.215
	FR1 N71	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.05	24.00	1.245	-0.04	0.091	0.113
	FR1 N71	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.05	24.00	1.245	-0.13	0.230	0.286
	FR1 N71	20M	BPSK	50	28	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.05	24.00	1.245	-0.06	0.349	0.434
	FR1 N71	20M	BPSK	50	28	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.05	24.00	1.245	0.04	0.048	0.060
	FR1 N71	20M	BPSK	50	28	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	136100	680.5	23.05	24.00	1.245	0.17	0.154	0.192
	FR1 N71	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.25	24.00	1.189	0.04	0.187	0.222
	FR1 N71	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.25	24.00	1.189	0.12	0.375	0.446
	FR1 N71	20M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.25	24.00	1.189	-0.16	0.121	0.144
	FR1 N71	20M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.25	24.00	1.189	-0.07	0.181	0.215
	FR1 N71	20M	BPSK	1	1	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.25	24.00	1.189	0.11	0.259	0.308
	FR1 N71	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.21	24.00	1.199	-0.09	0.174	0.209
	FR1 N71	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.21	24.00	1.199	-0.18	0.333	0.399
	FR1 N71	20M	BPSK	50	28	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.21	24.00	1.199	-0.02	0.114	0.137
	FR1 N71	20M	BPSK	50	28	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.21	24.00	1.199	0.05	0.172	0.206
	FR1 N71	20M	BPSK	50	28	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	136100	680.5	23.21	24.00	1.199	-0.05	0.239	0.287
	FR1 N12	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.17	24.00	1.211	-0.17	0.197	0.238
	FR1 N12	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.17	24.00	1.211	-0.11	0.322	0.390
50	FR1 N12	15M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.17	24.00	1.211	0.16	0.324	**0.392**
	FR1 N12	15M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.17	24.00	1.211	-0.16	0.108	0.131
	FR1 N12	15M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.17	24.00	1.211	0.15	0.301	0.364
	FR1 N12	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.12	24.00	1.225	0.14	0.209	0.256
	FR1 N12	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.12	24.00	1.225	0.05	0.315	0.386
	FR1 N12	15M	BPSK	36	22	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.12	24.00	1.225	0.13	0.318	0.389
	FR1 N12	15M	BPSK	36	22	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.12	24.00	1.225	0.12	0.114	0.140
	FR1 N12	15M	BPSK	36	22	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	141500	707.5	23.12	24.00	1.225	0.09	0.297	0.364
	FR1 N14	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	23.02	24.00	1.253	0.16	0.300	0.376
	FR1 N14	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	23.02	24.00	1.253	0.08	0.407	0.510
	FR1 N14	10M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	23.02	24.00	1.253	-0.11	0.246	0.308
	FR1 N14	10M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	23.02	24.00	1.253	0.19	0.097	0.122
51	FR1 N14	10M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	23.02	24.00	1.253	0.16	0.415	**0.520**
	FR1 N14	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	22.96	24.00	1.271	0.08	0.282	0.358
	FR1 N14	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	22.96	24.00	1.271	-0.03	0.351	0.446
	FR1 N14	10M	BPSK	25	14	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	22.96	24.00	1.271	-0.04	0.225	0.286
	FR1 N14	10M	BPSK	25	14	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	22.96	24.00	1.271	0.16	0.094	0.119
	FR1 N14	10M	BPSK	25	14	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	158600	793	22.96	24.00	1.271	0.16	0.328	0.417
	FR1 N26	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.19	24.00	1.205	-0.08	0.363	0.437
52	FR1 N26	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.19	24.00	1.205	-0.14	0.502	**0.605**
	FR1 N26	20M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.19	24.00	1.205	-0.17	0.260	0.313
	FR1 N26	20M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.19	24.00	1.205	0.16	0.095	0.114
	FR1 N26	20M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.19	24.00	1.205	0.15	0.475	0.572
	FR1 N26	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.13	24.00	1.222	0.15	0.357	0.436
	FR1 N26	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.13	24.00	1.222	0.14	0.484	0.591
	FR1 N26	20M	BPSK	50	28	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.13	24.00	1.222	0.14	0.250	0.305
	FR1 N26	20M	BPSK	50	28	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.13	24.00	1.222	-0.02	0.093	0.114
	FR1 N26	20M	BPSK	50	28	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	166300	831.5	23.13	24.00	1.222	0.08	0.452	0.552
	FR1 N5	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.25	24.00	1.189	-0.11	0.386	0.459
53	FR1 N5	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.25	24.00	1.189	-0.02	0.678	**0.806**

	FR1 N5	20M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.25	24.00	1.189	0.14	0.066	0.078
	FR1 N5	20M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.25	24.00	1.189	0.07	0.175	0.208
	FR1 N5	20M	BPSK	1	1	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.25	24.00	1.189	0.09	0.497	0.591
	FR1 N5	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.23	24.00	1.194	-0.02	0.301	0.359
	FR1 N5	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.23	24.00	1.194	0.17	0.617	0.737
	FR1 N5	20M	BPSK	50	28	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.23	24.00	1.194	0.01	0.050	0.060
	FR1 N5	20M	BPSK	50	28	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.23	24.00	1.194	0.08	0.147	0.176
	FR1 N5	20M	BPSK	50	28	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.23	24.00	1.194	0.11	0.407	0.486
	FR1 N5	20M	BPSK	100	0	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim) / Full	167300	836.5	23.16	24.00	1.213	0.05	0.621	0.754
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.29	24.00	1.178	-0.03	0.143	0.168
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.29	24.00	1.178	-0.03	0.185	0.218
	FR1 N70	15M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.29	24.00	1.178	0.01	0.248	0.292
	FR1 N70	15M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.29	24.00	1.178	-	n/a	n/a
	FR1 N70	15M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.29	24.00	1.178	-0.05	0.080	0.094
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.23	24.00	1.194	-0.03	0.145	0.173
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.23	24.00	1.194	-0.01	0.196	0.234
	FR1 N70	15M	BPSK	36	22	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.23	24.00	1.194	0.08	0.255	0.304
	FR1 N70	15M	BPSK	36	22	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.23	24.00	1.194	-	n/a	n/a
	FR1 N70	15M	BPSK	36	22	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim) / Full	340500	1702.5	23.23	24.00	1.194	-0.19	0.083	0.099
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	-0.05	0.653	0.773
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	-0.03	0.761	0.900
	FR1 N70	15M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	-0.02	0.054	0.064
	FR1 N70	15M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	0.08	0.058	0.069
	FR1 N70	15M	BPSK	1	1	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	0.18	1.030	1.219
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	-0.13	0.665	0.790
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	0.13	0.788	0.937
	FR1 N70	15M	BPSK	36	22	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	0.03	0.052	0.062
	FR1 N70	15M	BPSK	36	22	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	0.13	0.063	0.075
54	FR1 N70	15M	BPSK	36	22	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	-0.12	1.070	**1.272**
	FR1 N70	15M	BPSK	75	0	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.22	18.00	1.197	0.13	0.768	0.919
	FR1 N70	15M	BPSK	75	0	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.22	18.00	1.197	0.08	1.040	1.245
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	0.17	0.278	0.330
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	-0.13	0.486	0.578
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	0.03	0.373	0.443
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	-	n/a	n/a
	FR1 N66	40M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	-0.05	0.186	0.221
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	0.12	0.275	0.328
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	-0.12	0.481	0.574
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	0.14	0.369	0.441
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	-	n/a	n/a
	FR1 N66	40M	BPSK	108	54	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	0.17	0.177	0.211
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	-0.13	0.521	0.641
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	0.1	0.627	0.771
	FR1 N66	40M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	0.05	0.048	0.059
	FR1 N66	40M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	-0.09	0.050	0.062
55	FR1 N66	40M	BPSK	1	1	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	0.17	0.912	**1.122**
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	0.17	0.516	0.638
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	-0.14	0.625	0.772
	FR1 N66	40M	BPSK	108	54	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	-0.07	0.052	0.064
	FR1 N66	40M	BPSK	108	54	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	-0.01	0.048	0.059
	FR1 N66	40M	BPSK	108	54	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	-0.1	0.907	1.121
	FR1 N66	40M	BPSK	216	0	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	349000	1745	15.55	16.50	1.245	0.05	0.894	1.113
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	0.08	0.224	0.295
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	0.08	0.462	0.609
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	0.05	0.284	0.374
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	-	n/a	n/a

	FR1 N25	40M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	-0.08	0.199	0.262
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-0.03	0.225	0.297
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-0.01	0.467	0.617
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Side	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-0.11	0.286	0.378
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Side	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-	n/a	n/a
	FR1 N25	40M	BPSK	108	54	DFT-15	Top Side	5mm	Ant 2	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-0.19	0.201	0.266
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	0.05	0.527	0.612
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	0.01	0.697	0.810
	FR1 N25	40M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	-0.12	0.070	0.081
	FR1 N25	40M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	-	n/a	n/a
	FR1 N25	40M	BPSK	1	1	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	-0.1	0.960	1.115
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	0.07	0.561	0.656
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	0.19	0.741	0.867
	FR1 N25	40M	BPSK	108	54	DFT-15	Left Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	0.06	0.074	0.087
	FR1 N25	40M	BPSK	108	54	DFT-15	Right Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	-	n/a	n/a
56	FR1 N25	40M	BPSK	108	54	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	-0.12	1.070	**1.251**
	FR1 N25	40M	BPSK	216	0	DFT-15	Back	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.30	17.00	1.175	0.03	0.545	0.640
	FR1 N25	40M	BPSK	216	0	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	376500	1882.5	16.30	17.00	1.175	0.15	0.729	0.857
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	0.01	0.172	0.211
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	0.02	0.333	0.408
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	0.17	0.053	0.065
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	-0.1	0.017	0.021
	FR1 N30	10M	BPSK	1	1	DFT-15	Top Side	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	0.19	0.480	0.588
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	0.12	0.175	0.215
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	0.12	0.346	0.425
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Side	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	-0.01	0.066	0.081
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Side	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	-0.12	0.025	0.031
	FR1 N30	10M	BPSK	25	14	DFT-15	Top Side	5mm	Ant 8	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	-0.08	0.494	0.606
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	-0.19	0.452	0.531
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	-0.18	0.911	1.070
	FR1 N30	10M	BPSK	1	1	DFT-15	Left Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	0.13	0.377	0.443
	FR1 N30	10M	BPSK	1	1	DFT-15	Right Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	0.15	0.097	0.114
	FR1 N30	10M	BPSK	1	1	DFT-15	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	0.08	0.992	1.165
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	0.13	0.462	0.545
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	-0.04	0.903	1.066
	FR1 N30	10M	BPSK	25	14	DFT-15	Left Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	-0.1	0.380	0.449
	FR1 N30	10M	BPSK	25	14	DFT-15	Right Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	0.11	0.095	0.112
57	FR1 N30	10M	BPSK	25	14	DFT-15	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	0.01	1.050	**1.239**
	FR1 N30	10M	BPSK	50	0	DFT-15	Back	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.25	22.00	1.189	0.08	0.886	1.053
	FR1 N30	10M	BPSK	50	0	DFT-15	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.25	22.00	1.189	0.13	1.010	1.200
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	0.03	0.010	0.012
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	-0.15	0.516	0.615
	FR1 N41	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	0.13	0.083	0.098
	FR1 N41	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	0.05	0.004	0.005
	FR1 N41	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	0.02	0.012	0.014
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	0.06	0.009	0.011
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	-0.03	0.505	0.606
	FR1 N41	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	0.04	0.103	0.124
	FR1 N41	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	0.05	0.004	0.005
	FR1 N41	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	0.11	0.011	0.013
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	518598	2592.99	16.18	17.00	1.208	0.07	0.502	0.606
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.07	21.00	1.239	-0.1	0.689	0.854
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.07	21.00	1.239	-0.08	0.943	1.168
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.07	21.00	1.239	0.13	0.427	0.529
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.07	21.00	1.239	0.14	0.135	0.167
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.07	21.00	1.239	-0.04	0.970	1.202

	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	0.18	0.715	0.890
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	0.08	0.951	1.184
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	0.19	0.452	0.563
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	0.01	0.140	0.174
58	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	0.17	1.010	**1.257**
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Front	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.02	21.00	1.253	0.03	0.691	0.866
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.02	21.00	1.253	0.12	0.940	1.178
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.02	21.00	1.253	0.08	0.982	1.231
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	-0.13	0.153	0.182
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	-0.12	0.347	0.413
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	0.12	0.055	0.066
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	-	n/a	n/a
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	-0.11	0.517	0.616
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	0.12	0.163	0.195
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	-0.16	0.349	0.418
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	0.09	0.054	0.065
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	-	n/a	n/a
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	0.11	0.508	0.608
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Top Side	5mm	Ant 8	DSI 3 (Sim)	518598	2592.99	13.70	14.50	1.202	0.13	0.505	0.607
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.11	0.031	0.038
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.13	0.506	0.618
	FR1 N41	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.15	0.020	0.024
	FR1 N41	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.1	0.006	0.007
	FR1 N41	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.02	0.044	0.054
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	0.12	0.029	0.036
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	0.08	0.497	0.611
	FR1 N41	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	-0.04	0.018	0.022
	FR1 N41	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	0.05	0.005	0.006
	FR1 N41	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	0.04	0.043	0.053
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 9	DSI 3 (Sim)	518598	2592.99	13.08	14.00	1.236	0.06	0.494	0.611
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	0.05	0.024	0.029
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	-0.14	0.082	0.099
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	0.08	0.061	0.074
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	0.03	0.004	0.005
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	-0.04	0.022	0.027
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	-0.13	0.029	0.035
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	0.01	0.088	0.107
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	0.17	0.066	0.081
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	0.06	0.004	0.005
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	-0.01	0.026	0.031
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	-0.12	0.042	0.051
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	0.18	0.436	0.530
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	-0.17	0.137	0.167
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	-	n/a	n/a
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	-0.09	0.026	0.032
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	-0.1	0.047	0.057
59	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	0.06	0.499	**0.610**
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	0.08	0.150	0.183
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	0.06	0.004	0.004
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	-0.16	0.029	0.035
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 4	DSI 3(Sim)	656000	3840	9.11	10.00	1.227	0.08	0.474	0.582
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	0.02	0.024	0.029
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	-0.1	0.380	0.456
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	0.07	0.013	0.016
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	-0.18	0.027	0.032
	FR1 N77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	-0.12	0.056	0.067

	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	-0.19	0.022	0.027
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	-0.07	0.356	0.429
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	0.19	0.013	0.016
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	0.18	0.025	0.030
	FR1 N77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 5	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	0.02	0.058	0.070
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	0.06	0.019	0.023
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	0.13	0.476	0.579
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	0.08	0.018	0.022
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	-0.05	0.012	0.015
	FR1 N77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	-0.11	0.084	0.102
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	0.03	0.021	0.025
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	0.15	0.489	0.596
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	0.13	0.020	0.025
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	0.06	0.013	0.016
	FR1 N77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	-0.08	0.088	0.107
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 5	DSI 3 (Sim)	656000	3840	16.62	17.50	1.225	0.04	0.482	0.590
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	-0.01	0.001	0.001
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	0.15	0.435	0.580
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	0.11	0.011	0.015
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	-0.04	0.001	0.001
	FR1 N77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	0.15	0.002	0.003
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	-0.12	0.001	0.001
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	-0.13	0.453	0.608
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	-0.08	0.013	0.018
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	-0.02	0.001	0.001
	FR1 N77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 6	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	0.14	0.002	0.002
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.96	9.00	1.271	0.09	0.326	0.414
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.96	9.00	1.271	-0.06	0.020	0.025
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.96	9.00	1.271	0.05	0.005	0.006
	FR1 N77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.96	9.00	1.271	0.11	0.003	0.004
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	-0.14	0.002	0.002
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	0.07	0.182	0.232
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	-0.05	0.013	0.017
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	0.16	0.003	0.004
	FR1 N77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	-0.02	0.002	0.002
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	DSI 3 (Sim)	656000	3840	7.91	9.00	1.285	0.03	0.188	0.242
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	-0.16	0.257	0.321
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	0.08	0.002	0.002
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	-0.1	0.027	0.034
	FR1 N77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	0.04	0.009	0.011
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	0.04	0.263	0.331
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	-0.04	0.002	0.003
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	0.19	0.029	0.036
	FR1 N77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 10	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	0.14	0.009	0.011
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	-0.1	0.009	0.011
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	-0.13	0.473	0.590
	FR1 N77	100M	BPSK	1	1	DFT-30	Left Side	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	0.1	0.001	0.001
	FR1 N77	100M	BPSK	1	1	DFT-30	Right Side	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	0.04	0.042	0.052
	FR1 N77	100M	BPSK	1	1	DFT-30	Top Side	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	0.08	0.012	0.014
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	-0.1	0.008	0.010
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	-0.17	0.451	0.565
	FR1 N77	100M	BPSK	135	69	DFT-30	Left Side	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	0.08	0.001	0.001
	FR1 N77	100M	BPSK	135	69	DFT-30	Right Side	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	0.16	0.040	0.050
	FR1 N77	100M	BPSK	135	69	DFT-30	Top Side	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	-0.1	0.011	0.014

	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 10	DSI 3 (Sim)	656000	3840	15.00	16.00	1.259	0.03	0.454	0.572

<WLAN2.4G SAR>

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)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Reduced	1	2412	18.30	19.50	1.318	99.29	1.007	0.13	0.383	0.508
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Reduced	1	2412	18.30	19.50	1.318	99.29	1.007	-0.14	0.399	0.530
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 3	Reduced	1	2412	18.30	19.50	1.318	99.29	1.007	-0.05	0.087	0.115
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 3	Reduced	1	2412	18.30	19.50	1.318	99.29	1.007	-0.17	0.109	0.145
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3	Reduced	1	2412	18.30	19.50	1.318	99.29	1.007	-0.12	0.416	0.552
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3	Reduced	6	2437	17.80	19.50	1.479	99.29	1.007	-0.04	0.485	0.722
60	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3	Reduced	11	2462	18.30	19.50	1.318	99.29	1.007	-0.19	0.547	**0.726**

<WLAN5G SAR>

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)
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Reduced	42	5210	8.37	10.00	1.455	91.95	1.088	-0.11	0.005	0.008
61	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Reduced	42	5210	8.37	10.00	1.455	91.95	1.088	0.14	0.460	**0.728**
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5	Reduced	42	5210	8.37	10.00	1.455	91.95	1.088	0.15	0.009	0.014
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Reduced	42	5210	8.37	10.00	1.455	91.95	1.088	-0.14	0.002	0.003
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Reduced	42	5210	8.37	10.00	1.455	91.95	1.088	-0.1	0.061	0.097
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Reduced	155	5775	9.21	11.00	1.510	91.95	1.088	0.09	0.015	0.025
62	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Reduced	155	5775	9.21	11.00	1.510	91.95	1.088	0.08	0.444	**0.729**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5	Reduced	155	5775	9.21	11.00	1.510	91.95	1.088	0.03	0.011	0.018
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5	Reduced	155	5775	9.21	11.00	1.510	91.95	1.088	-0.05	0.013	0.021
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5	Reduced	155	5775	9.21	11.00	1.510	91.95	1.088	0.05	0.095	0.156

<Bluetooth SAR>

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)
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	0.06	0.088	0.134
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	-0.1	0.092	0.140
	Bluetooth	DH5 1Mbps	Left Side	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	0.15	0.014	0.022
	Bluetooth	DH5 1Mbps	Right Side	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	-	n/a	n/a
	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	0.09	0.100	0.153
	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 3	Full	39	2441	10.60	12.50	1.549	76.9	1.300	0.17	0.072	0.145
63	Bluetooth	DH5 1Mbps	Top Side	5mm	Ant 3	Full	78	2480	10.60	12.50	1.549	76.9	1.300	0.16	0.090	**0.182**

16.3 Body Worn Accessory SAR

<GSM SAR>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 4 Tx slots	Front	5mm	Ant 1	-	DSI 3	128	824.2	26.49	28.00	1.416	0.15	0.446	0.631
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	-	DSI 3	128	824.2	26.49	28.00	1.416	-0.08	0.805	1.140
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	-	DSI 3	189	836.4	26.22	28.00	1.507	0.12	0.632	0.952
64	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	-	DSI 3	251	848.8	26.42	28.00	1.439	0.05	0.868	**1.249**
	GSM850	GPRS 4 Tx slots	Back	5mm	Ant 1	Headset	DSI 3	251	848.8	26.42	28.00	1.439	0.18	0.759	1.092
	GSM850	GPRS 4 Tx slots	Front	21mm	Ant 1	-	DSI 4	128	824.2	28.37	30.00	1.455	0.11	0.132	0.192
	GSM850	GPRS 4 Tx slots	Back	27mm	Ant 1	-	DSI 4	251	848.8	28.22	30.00	1.507	-0.16	0.099	0.149
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 1	-	DSI 3	810	1909.8	22.34	23.00	1.164	-0.16	0.591	0.688
65	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	-	DSI 3	810	1909.8	22.34	23.00	1.164	0.18	1.090	**1.269**
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	-	DSI 3	512	1850.2	21.84	23.00	1.306	-0.12	0.842	1.100
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	-	DSI 3	661	1880	21.95	23.00	1.274	-0.01	0.852	1.085
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	Headset	DSI 3	810	1909.8	22.34	23.00	1.164	0.08	0.950	1.106
	GSM1900	GPRS 3 Tx slots	Front	21mm	Ant 1	-	DSI 4	810	1909.8	27.28	28.00	1.180	0.16	0.297	0.351
	GSM1900	GPRS 3 Tx slots	Back	27mm	Ant 1	-	DSI 4	810	1909.8	27.28	28.00	1.180	-0.11	0.284	0.335
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 1	-	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	-0.06	0.422	0.514
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	-	DSI 3 (Sim)	810	1909.8	20.64	21.50	1.219	-0.19	0.687	0.837
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	-	DSI 3 (Sim)	512	1850.2	20.11	21.50	1.377	-0.05	0.543	0.748
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	-	DSI 3 (Sim)	661	1880	20.23	21.50	1.340	-0.08	0.549	0.735

<WCDMA SAR>

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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	4132	826.4	22.36	23.00	1.159	-0.19	0.523	0.606
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4132	826.4	22.36	23.00	1.159	-0.14	0.891	1.032
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4182	836.4	22.35	23.00	1.161	-0.16	0.920	1.069
66	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	4233	846.6	22.28	23.00	1.180	0.05	0.943	**1.113**
	WCDMA V	RMC 12.2Kbps	Front	21mm	Ant 1	-	DSI 4	4132	826.4	23.26	24.00	1.186	-0.04	0.155	0.184
	WCDMA V	RMC 12.2Kbps	Back	27mm	Ant 1	-	DSI 4	4233	846.6	23.05	24.00	1.245	0.03	0.102	0.127
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1513	1752.6	18.68	19.50	1.208	0.03	0.804	0.971
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1312	1712.4	18.50	19.50	1.259	0.08	0.818	1.030
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	1413	1732.6	18.40	19.50	1.288	0.11	0.743	0.957
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1513	1752.6	18.68	19.50	1.208	0.11	0.885	1.069
67	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1312	1712.4	18.50	19.50	1.259	0.15	0.914	**1.151**
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	1413	1732.6	18.40	19.50	1.288	-0.06	0.842	1.085
	WCDMA IV	RMC 12.2Kbps	Front	21mm	Ant 1	-	DSI 4	1312	1712.4	23.24	24.00	1.191	-0.12	0.359	0.428
	WCDMA IV	RMC 12.2Kbps	Back	27mm	Ant 1	-	DSI 4	1312	1712.4	23.24	24.00	1.191	0.07	0.305	0.363
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	0.04	0.492	0.612
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 (Sim)	1513	1752.6	16.55	17.50	1.245	0.13	0.588	0.732
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 (Sim)	1312	1712.4	16.47	17.50	1.268	-0.11	0.641	0.813
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 (Sim)	1413	1732.6	16.34	17.50	1.306	0.14	0.561	0.733
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3	9262	1852.4	16.67	17.50	1.211	0.11	0.575	0.696
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9262	1852.4	16.67	17.50	1.211	0.04	0.714	0.864
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9400	1880	16.56	17.50	1.242	-0.11	0.765	0.950
68	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3	9538	1907.6	16.63	17.50	1.222	-0.08	0.928	**1.134**
	WCDMA II	RMC 12.2Kbps	Front	21mm	Ant 1	-	DSI 4	9262	1852.4	23.36	24.00	1.159	-0.18	0.300	0.348
	WCDMA II	RMC 12.2Kbps	Back	27mm	Ant 1	-	DSI 4	9538	1907.6	23.35	24.00	1.161	-0.15	0.425	0.494
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	-0.06	0.458	0.554
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 (Sim)	9262	1852.4	15.67	16.50	1.211	0.02	0.574	0.695
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 (Sim)	9400	1880	15.54	16.50	1.247	0.01	0.635	0.792

	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI 3 (Sim)	9538	1907.6	15.60	16.50	1.230	-0.02	0.756	0.930

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 71	20M	QPSK	1	99	Front	5mm	Ant 2	-	DSI 3 / Full	133322	683	23.18	24.00	1.208	-0.07	0.277	0.335
	LTE Band 71	20M	QPSK	1	99	Back	5mm	Ant 2	-	DSI 3 / Full	133322	683	23.18	24.00	1.208	0.09	0.393	0.475
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 2	-	DSI 3 / Full	133322	683	22.36	23.00	1.159	-0.05	0.232	0.269
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3 / Full	133322	683	22.36	23.00	1.159	-0.16	0.327	0.379
	LTE Band 71	20M	QPSK	1	99	Front	5mm	Ant 1	-	DSI 3 / Full	133322	683	22.89	24.00	1.291	-0.06	0.421	0.544
69	LTE Band 71	20M	QPSK	1	99	Back	5mm	Ant 1	-	DSI 3 / Full	133322	683	22.89	24.00	1.291	0.01	0.783	**1.011**
	LTE Band 71	20M	QPSK	50	0	Front	5mm	Ant 1	-	DSI 3 / Full	133322	683	22.09	23.00	1.233	0.14	0.212	0.261
	LTE Band 71	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 / Full	133322	683	22.09	23.00	1.233	0.02	0.413	0.509
	LTE Band 71	20M	QPSK	100	0	Back	5mm	Ant 1	-	DSI 3 / Full	133322	683	22.05	23.00	1.245	0.05	0.411	0.511
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 / Full	23095	707.5	23.11	24.00	1.227	-0.18	0.443	0.544
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 / Full	23095	707.5	23.11	24.00	1.227	0.07	0.635	0.779
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 2	-	DSI 3 / Full	23095	707.5	22.31	23.00	1.172	0.18	0.252	0.295
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 2	-	DSI 3 / Full	23095	707.5	22.31	23.00	1.172	0.17	0.343	0.402
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	0.11	0.251	0.312
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	23095	707.5	22.05	23.00	1.245	-0.01	0.471	0.586
	LTE Band 12	10M	QPSK	1	0	Front	21mm	Ant 2	-	DSI 4	23095	707.5	23.11	24.00	1.227	0.06	0.084	0.103
	LTE Band 12	10M	QPSK	1	0	Back	27mm	Ant 2	-	DSI 4	23095	707.5	23.11	24.00	1.227	-0.06	0.075	0.092
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	-0.11	0.187	0.234
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	23095	707.5	22.02	23.00	1.253	0.16	0.350	0.439
	LTE Band 12	10M	QPSK	25	0	Front	21mm	Ant 2	-	DSI 4	23095	707.5	22.31	23.00	1.172	-0.14	0.050	0.059
	LTE Band 12	10M	QPSK	25	0	Back	27mm	Ant 2	-	DSI 4	23095	707.5	22.31	23.00	1.172	0.07	0.045	0.053
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3 / Full	23095	707.5	23.09	24.00	1.233	-0.04	0.525	0.647
70	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 / Full	23095	707.5	23.09	24.00	1.233	0.05	0.897	**1.106**
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	-	DSI 3 / Full	23095	707.5	22.30	23.00	1.175	-0.06	0.284	0.334
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	-	DSI 3 / Full	23095	707.5	22.30	23.00	1.175	-0.14	0.458	0.538
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 / Full	23095	707.5	22.28	23.00	1.180	0.08	0.455	0.537
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 / Full	23230	782	22.90	24.00	1.288	-0.07	0.465	0.599
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 / Full	23230	782	22.90	24.00	1.288	0.08	0.606	0.781
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 2	-	DSI 3 / Full	23230	782	21.91	23.00	1.285	0.15	0.284	0.365
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 2	-	DSI 3 / Full	23230	782	21.91	23.00	1.285	0.14	0.382	0.491
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	0.03	0.334	0.430
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	23230	782	21.40	22.50	1.288	0.01	0.437	0.563
	LTE Band 13	10M	QPSK	1	0	Front	21mm	Ant 2	-	DSI 4	23230	782	22.90	24.00	1.288	-0.02	0.102	0.131
	LTE Band 13	10M	QPSK	1	0	Back	27mm	Ant 2	-	DSI 4	23230	782	22.90	24.00	1.288	-0.15	0.073	0.094
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	-0.01	0.299	0.388
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	23230	782	21.37	22.50	1.297	-0.07	0.408	0.529
	LTE Band 13	10M	QPSK	25	0	Front	21mm	Ant 2	-	DSI 4	23230	782	21.91	23.00	1.285	-0.03	0.081	0.104
	LTE Band 13	10M	QPSK	25	0	Back	27mm	Ant 2	-	DSI 4	23230	782	21.91	23.00	1.285	0.18	0.060	0.077
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3 / Full	23230	782	22.97	24.00	1.268	0.06	0.438	0.555
71	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 / Full	23230	782	22.97	24.00	1.268	0.17	0.729	**0.924**
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	-	DSI 3 / Full	23230	782	21.91	23.00	1.285	0.13	0.286	0.368
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	-	DSI 3 / Full	23230	782	21.91	23.00	1.285	0.17	0.421	0.541
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 / Full	23230	782	21.88	23.00	1.294	0.07	0.433	0.560
	LTE Band 14	10M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 / Full	23330	793	22.98	24.00	1.265	-0.16	0.540	0.683
	LTE Band 14	10M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 / Full	23330	793	22.98	24.00	1.265	-0.07	0.657	0.831
	LTE Band 14	10M	QPSK	25	0	Front	5mm	Ant 2	-	DSI 3 / Full	23330	793	22.20	23.00	1.202	0.07	0.295	0.355
	LTE Band 14	10M	QPSK	25	0	Back	5mm	Ant 2	-	DSI 3 / Full	23330	793	22.20	23.00	1.202	-0.19	0.377	0.453
	LTE Band 14	10M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3 / Full	23330	793	22.12	23.00	1.225	-0.11	0.381	0.467
	LTE Band 14	10M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	0.18	0.381	0.467
	LTE Band 14	10M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	23330	793	22.62	23.50	1.225	0.04	0.463	0.567

	LTE Band 14	10M	QPSK	1	0	Front	21mm	Ant 2	-	DSI 4	23330	793	22.98	24.00	1.265	0.16	0.120	0.152
	LTE Band 14	10M	QPSK	1	0	Back	27mm	Ant 2	-	DSI 4	23330	793	22.98	24.00	1.265	0.14	0.097	0.123
	LTE Band 14	10M	QPSK	25	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	-0.09	0.332	0.408
	LTE Band 14	10M	QPSK	25	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	23330	793	22.10	23.00	1.230	0.13	0.410	0.504
	LTE Band 14	10M	QPSK	25	0	Front	21mm	Ant 2	-	DSI 4	23330	793	22.20	23.00	1.202	0.04	0.070	0.084
	LTE Band 14	10M	QPSK	25	0	Back	27mm	Ant 2	-	DSI 4	23330	793	22.20	23.00	1.202	-0.12	0.056	0.067
	LTE Band 14	10M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3 / Full	23330	793	23.07	24.00	1.239	-0.13	0.513	0.636
72	LTE Band 14	10M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 / Full	23330	793	23.07	24.00	1.239	0.19	0.954	**1.182**
	LTE Band 14	10M	QPSK	25	0	Front	5mm	Ant 1	-	DSI 3 / Full	23330	793	22.28	23.00	1.180	0.18	0.272	0.321
	LTE Band 14	10M	QPSK	25	0	Back	5mm	Ant 1	-	DSI 3 / Full	23330	793	22.28	23.00	1.180	0.07	0.494	0.583
	LTE Band 14	10M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 / Full	23330	793	22.16	23.00	1.213	0.04	0.488	0.592
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 / Full	26865	831.5	23.15	24.00	1.216	0.08	0.610	0.742
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 / Full	26865	831.5	23.15	24.00	1.216	0.02	0.804	0.978
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 / Full	26765	821.5	22.89	24.00	1.291	-0.13	0.755	0.975
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 / Full	26965	841.5	22.65	24.00	1.365	0.05	0.832	1.135
	LTE Band 5B	10M	QPSK	1	49	Back	5mm	Ant 2	-	DSI 3 / Full	20575 +20476	841.5 +831.6	22.97	24.00	1.268	0.08	0.788	0.999
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 2	-	DSI 3 / Full	26865	831.5	22.10	23.00	1.230	0.17	0.372	0.458
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 2	-	DSI 3 / Full	26865	831.5	22.10	23.00	1.230	-0.09	0.486	0.598
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 2	-	DSI 3 / Full	26865	831.5	22.14	23.00	1.219	0.05	0.491	0.599
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	-0.11	0.319	0.377
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26865	831.5	21.77	22.50	1.183	-0.19	0.401	0.474
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26765	821.5	21.68	22.50	1.208	-0.13	0.381	0.460
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26965	841.5	21.49	22.50	1.262	-0.08	0.426	0.538
	LTE Band 5B	10M	QPSK	1	49	Back	5mm	Ant 2	-	DSI 3 (Sim)	20575 +20476	841.5 +831.6	21.63	22.50	1.222	0.05	0.403	0.492
	LTE Band 26	15M	QPSK	1	0	Front	21mm	Ant 2	-	DSI 4	26865	831.5	23.15	24.00	1.216	-0.1	0.048	0.058
	LTE Band 26	15M	QPSK	1	0	Back	27mm	Ant 2	-	DSI 4	26965	841.5	22.65	24.00	1.365	0.19	0.049	0.067
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	-0.15	0.311	0.370
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26865	831.5	21.75	22.50	1.189	0.17	0.395	0.469
	LTE Band 26	15M	QPSK	36	0	Front	21mm	Ant 2	-	DSI 4	26865	831.5	23.15	24.00	1.216	-	n/a	n/a
	LTE Band 26	15M	QPSK	36	0	Back	27mm	Ant 2	-	DSI 4	26865	831.5	23.15	24.00	1.216	-	n/a	n/a
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3	26865	831.5	22.14	23.00	1.219	-0.04	0.505	0.616
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.14	23.00	1.219	-0.06	0.853	1.040
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	26765	821.5	22.12	23.00	1.225	-0.06	0.866	1.061
73	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	26965	841.5	22.05	23.00	1.245	-0.14	0.965	**1.201**
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	Headset	DSI 3	26965	841.5	22.05	23.00	1.245	0.16	0.844	1.050
	LTE Band 5B	10M	QPSK	1	49	Back	5mm	Ant 1	-	DSI 3	20575 +20476	841.5 +831.6	21.88	23.00	1.294	0.08	0.909	1.176
	LTE Band 26	15M	QPSK	1	0	Front	21mm	Ant 1	-	DSI 4	26865	831.5	23.18	24.00	1.208	-0.05	0.062	0.075
	LTE Band 26	15M	QPSK	1	0	Back	27mm	Ant 1	-	DSI 4	26965	841.5	22.90	24.00	1.288	0.11	0.119	0.153
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	-	DSI 3	26865	831.5	22.11	23.00	1.227	0.09	0.381	0.468
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.11	23.00	1.227	0.18	0.650	0.798
	LTE Band 26	15M	QPSK	36	0	Front	21mm	Ant 1	-	DSI 4	26865	831.5	22.17	23.00	1.211	-0.15	0.069	0.084
	LTE Band 26	15M	QPSK	36	0	Back	27mm	Ant 1	-	DSI 4	26865	831.5	22.17	23.00	1.211	0.14	0.074	0.090
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	-	DSI 3	26865	831.5	22.09	23.00	1.233	0.13	0.645	0.795
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3	132072	1720	22.16	23.00	1.213	-0.07	0.536	0.650
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	132072	1720	22.16	23.00	1.213	0.08	0.714	0.866
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	132322	1745	21.91	23.00	1.285	0.17	0.728	0.936
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	132572	1770	21.85	23.00	1.303	-0.19	0.864	1.126
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	132572 +132374	1770 +1750.2	22.13	23.00	1.222	0.06	0.835	1.020
	LTE Band 66	20M	QPSK	1	0	Front	21mm	Ant 2	-	DSI 4	132072	1720	23.16	24.00	1.213	0.08	0.037	0.045
	LTE Band 66	20M	QPSK	1	0	Back	27mm	Ant 2	-	DSI 4	132572	1770	22.85	24.00	1.303	-0.09	0.033	0.043
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	-	DSI 3	132072	1720	22.02	23.00	1.253	0.01	0.387	0.485
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3	132072	1720	22.02	23.00	1.253	0.19	0.533	0.668
	LTE Band 66	20M	QPSK	50	0	Front	21mm	Ant 2	-	DSI 4	132072	1720	22.22	23.00	1.197	0.05	0.028	0.034
	LTE Band 66	20M	QPSK	50	0	Back	27mm	Ant 2	-	DSI 4	132072	1720	22.22	23.00	1.197	0.06	0.025	0.030
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 2	-	DSI 3	132072	1720	21.98	23.00	1.265	0.05	0.537	0.679

	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	-0.18	0.245	0.304
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	132072	1720	19.07	20.00	1.239	-0.12	0.386	0.478
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	132322	1745	19.06	20.00	1.242	-0.06	0.399	0.495
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	132572	1770	19.03	20.00	1.250	-0.05	0.432	0.540
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	132572 +132374	1770 +1750.2	19.04	20.00	1.247	0.07	0.409	0.510
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	-0.09	0.231	0.287
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	132072	1720	19.05	20.00	1.245	0.12	0.375	0.467
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3	132072	1720	18.11	19.00	1.227	0.1	0.521	0.639
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	132072	1720	18.11	19.00	1.227	-0.11	0.959	1.177
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	132322	1745	17.99	19.00	1.262	-0.05	0.930	1.173
74	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	132572	1770	17.93	19.00	1.279	-0.16	0.957	**1.224**
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	Headset	DSI 3	132572	1770	17.93	19.00	1.279	0.05	0.897	1.148
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	132572 +132374	1770 +1750.2	18.07	19.00	1.239	0.07	0.914	1.132
	LTE Band 66	20M	QPSK	1	0	Front	21mm	Ant 1	-	DSI 4	132072	1720	23.16	24.00	1.213	0.16	0.354	0.430
	LTE Band 66	20M	QPSK	1	0	Back	27mm	Ant 1	-	DSI 4	132572	1770	22.91	24.00	1.285	0.03	0.282	0.362
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 1	-	DSI 3	132072	1720	18.09	19.00	1.233	-0.04	0.515	0.635
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3	132072	1720	18.09	19.00	1.233	-0.15	0.948	1.169
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3	132322	1745	17.97	19.00	1.268	-0.18	0.922	1.169
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3	132572	1770	17.90	19.00	1.288	-0.02	0.948	1.221
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	Headset	DSI 3	132572	1770	17.90	19.00	1.288	-0.12	0.894	1.152
	LTE Band 66	20M	QPSK	50	0	Front	21mm	Ant 1	-	DSI 4	132072	1720	22.35	23.00	1.161	-0.16	0.204	0.237
	LTE Band 66	20M	QPSK	50	0	Back	27mm	Ant 1	-	DSI 4	132572	1770	22.10	23.00	1.230	-0.05	0.164	0.202
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 1	-	DSI 3	132072	1720	18.07	19.00	1.239	0.07	0.945	1.171
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	-0.17	0.365	0.444
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132072	1720	16.65	17.50	1.216	-0.02	0.669	0.814
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132322	1745	16.56	17.50	1.242	0.18	0.652	0.810
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132572	1770	16.54	17.50	1.247	-0.07	0.661	0.825
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132572 +132374	1770 +1750.2	16.62	17.50	1.225	-0.12	0.633	0.775
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 1	-	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	0.04	0.361	0.442
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132072	1720	16.62	17.50	1.225	0.14	0.662	0.811
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132322	1745	16.54	17.50	1.247	-0.18	0.646	0.806
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132572	1770	16.52	17.50	1.253	0.07	0.653	0.818
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	132072	1720	16.60	17.50	1.230	0.06	0.657	0.808
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3	26340	1880	21.45	22.50	1.274	-0.04	0.456	0.581
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	26340	1880	21.45	22.50	1.274	-0.08	0.764	0.973
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	26140	1860	21.41	22.50	1.285	-0.15	0.749	0.963
75	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3	26590	1905	21.44	22.50	1.276	0.03	0.814	**1.039**
	LTE Band 25	20M	QPSK	1	0	Front	21mm	Ant 2	-	DSI 4	26340	1880	23.17	24.00	1.211	0.14	0.109	0.132
	LTE Band 25	20M	QPSK	1	0	Back	27mm	Ant 2	-	DSI 4	26590	1905	22.94	24.00	1.276	0.06	0.086	0.110
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 2	-	DSI 3	26340	1880	21.43	22.50	1.279	-0.01	0.457	0.585
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3	26340	1880	21.43	22.50	1.279	-0.04	0.760	0.972
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3	26140	1860	21.38	22.50	1.294	0.14	0.745	0.964
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3	26590	1905	21.42	22.50	1.282	0.17	0.809	1.037
	LTE Band 25	20M	QPSK	50	0	Front	21mm	Ant 2	-	DSI 4	26340	1880	22.31	23.00	1.172	-0.09	0.060	0.070
	LTE Band 25	20M	QPSK	50	0	Back	27mm	Ant 2	-	DSI 4	26590	1905	22.20	23.00	1.202	0.08	0.047	0.057
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 2	-	DSI 3	26340	1880	21.40	22.50	1.288	0.03	0.758	0.976
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	-0.16	0.195	0.243
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26340	1880	18.55	19.50	1.245	0.09	0.422	0.525
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26140	1860	18.46	19.50	1.271	-0.09	0.375	0.476
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26590	1905	18.52	19.50	1.253	0.06	0.361	0.452
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 2	-	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	0.16	0.192	0.241
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 2	-	DSI 3 (Sim)	26340	1880	18.52	19.50	1.253	0.17	0.415	0.520
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3	26340	1880	16.58	17.50	1.236	-0.12	0.574	0.709
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	26340	1880	16.58	17.50	1.236	-0.04	0.735	0.908
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	26140	1860	16.41	17.50	1.285	0.17	0.698	0.897

	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3	26590	1905	16.40	17.50	1.288	-0.07	0.797	1.027
	LTE Band 25	20M	QPSK	1	0	Front	21mm	Ant 1	-	DSI 4	26340	1880	23.15	24.00	1.216	0.03	0.410	0.499
	LTE Band 25	20M	QPSK	1	0	Back	27mm	Ant 1	-	DSI 4	26590	1905	22.93	24.00	1.279	0.18	0.319	0.408
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 1	-	DSI 3	26340	1880	16.56	17.50	1.242	-0.04	0.561	0.697
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3	26340	1880	16.56	17.50	1.242	0.17	0.727	0.903
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3	26140	1860	16.40	17.50	1.288	-0.13	0.681	0.877
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3	26590	1905	16.38	17.50	1.294	-0.14	0.792	1.025
	LTE Band 25	20M	QPSK	50	0	Front	21mm	Ant 1	-	DSI 4	26340	1880	22.32	23.00	1.169	0.06	0.195	0.228
	LTE Band 25	20M	QPSK	50	0	Back	27mm	Ant 1	-	DSI 4	26590	1905	22.22	23.00	1.197	0.05	0.238	0.285
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 1	-	DSI 3	26340	1880	16.53	17.50	1.250	0.05	0.725	0.906
	LTE Band 25	20M	QPSK	1	0	Front	5mm	Ant 1	-	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	0.17	0.468	0.567
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	26340	1880	15.67	16.50	1.211	-0.08	0.613	0.742
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	26140	1860	15.59	16.50	1.233	0.12	0.550	0.678
	LTE Band 25	20M	QPSK	1	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	26590	1905	15.47	16.50	1.268	-0.16	0.663	0.840
	LTE Band 25	20M	QPSK	50	0	Front	5mm	Ant 1	-	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	-0.01	0.465	0.567
	LTE Band 25	20M	QPSK	50	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	26340	1880	15.64	16.50	1.219	-0.14	0.606	0.739
	LTE Band 25	20M	QPSK	100	0	Back	5mm	Ant 1	-	DSI 3 (Sim)	26340	1880	15.62	16.50	1.225	0.03	0.605	0.741
	LTE Band 30	10M	QPSK	1	25	Front	5mm	Ant 8	-	DSI 3	27710	2310	17.85	19.00	1.303	-0.08	0.477	0.622
76	LTE Band 30	10M	QPSK	1	25	Back	5mm	Ant 8	-	DSI 3	27710	2310	17.85	19.00	1.303	0.04	0.840	**1.095**
	LTE Band 30	10M	QPSK	1	25	Front	21mm	Ant 8	-	DSI 4	27710	2310	22.86	24.00	1.300	0.01	0.131	0.170
	LTE Band 30	10M	QPSK	1	25	Back	27mm	Ant 8	-	DSI 4	27710	2310	22.86	24.00	1.300	-0.01	0.158	0.205
	LTE Band 30	10M	QPSK	25	0	Front	5mm	Ant 8	-	DSI 3	27710	2310	17.83	19.00	1.309	-0.07	0.473	0.619
	LTE Band 30	10M	QPSK	25	0	Back	5mm	Ant 8	-	DSI 3	27710	2310	17.83	19.00	1.309	0.19	0.828	1.084
	LTE Band 30	10M	QPSK	25	0	Front	21mm	Ant 8	-	DSI 4	27710	2310	21.84	23.00	1.306	0.19	0.093	0.121
	LTE Band 30	10M	QPSK	25	0	Back	27mm	Ant 8	-	DSI 4	27710	2310	21.84	23.00	1.306	0.18	0.116	0.152
	LTE Band 30	10M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	27710	2310	17.81	19.00	1.315	0.05	0.830	1.092
	LTE Band 30	10M	QPSK	1	25	Front	5mm	Ant 8	-	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	-0.19	0.137	0.183
	LTE Band 30	10M	QPSK	1	25	Back	5mm	Ant 8	-	DSI 3 (Sim)	27710	2310	12.25	13.50	1.334	0.08	0.220	0.293
	LTE Band 30	10M	QPSK	25	0	Front	5mm	Ant 8	-	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	0.17	0.140	0.188
	LTE Band 30	10M	QPSK	25	0	Back	5mm	Ant 8	-	DSI 3 (Sim)	27710	2310	12.22	13.50	1.343	-0.18	0.215	0.289
	LTE Band 30	10M	QPSK	1	25	Front	5mm	Ant 7	-	DSI 3	27710	2310	21.94	23.00	1.276	0.13	0.525	0.670
	LTE Band 30	10M	QPSK	1	25	Back	5mm	Ant 7	-	DSI 3	27710	2310	21.94	23.00	1.276	-0.06	0.809	1.033
	LTE Band 30	10M	QPSK	1	25	Front	21mm	Ant 7	-	DSI 4	27710	2310	23.10	24.00	1.230	-0.02	0.123	0.151
	LTE Band 30	10M	QPSK	1	25	Back	27mm	Ant 7	-	DSI 4	27710	2310	23.10	24.00	1.230	0.17	0.099	0.122
	LTE Band 30	10M	QPSK	25	0	Front	5mm	Ant 7	-	DSI 3	27710	2310	21.91	23.00	1.285	-0.13	0.509	0.654
	LTE Band 30	10M	QPSK	25	0	Back	5mm	Ant 7	-	DSI 3	27710	2310	21.91	23.00	1.285	-0.1	0.800	1.028
	LTE Band 30	10M	QPSK	25	0	Front	21mm	Ant 7	-	DSI 4	27710	2310	22.13	23.00	1.222	0.1	0.083	0.101
	LTE Band 30	10M	QPSK	25	0	Back	27mm	Ant 7	-	DSI 4	27710	2310	22.13	23.00	1.222	-0.02	0.063	0.077
	LTE Band 30	10M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	27710	2310	21.89	23.00	1.291	-0.02	0.798	1.030
	LTE Band 30	10M	QPSK	1	25	Front	5mm	Ant 7	-	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.17	0.432	0.549
	LTE Band 30	10M	QPSK	1	25	Back	5mm	Ant 7	-	DSI 3 (Sim)	27710	2310	20.96	22.00	1.271	0.11	0.743	0.944
	LTE Band 30	10M	QPSK	25	0	Front	5mm	Ant 7		DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	0.08	0.427	0.546
	LTE Band 30	10M	QPSK	25	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	27710	2310	20.93	22.00	1.279	0.12	0.739	0.945
	LTE Band 30	10M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	27710	2310	20.90	22.00	1.288	-0.08	0.725	0.934
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 7	-	DSI 3	21100	2535	21.58	22.50	1.236	0.02	0.823	1.017
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 7	-	DSI 3	20850	2510	21.54	22.50	1.247	0.06	0.786	0.980
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 7	-	DSI 3	21350	2560	21.51	22.50	1.256	0.1	0.837	1.051
77	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	-	DSI 3	21100	2535	21.58	22.50	1.236	-0.13	0.998	**1.233**
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	-	DSI 3	20850	2510	21.54	22.50	1.247	-0.08	0.933	1.164
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	-	DSI 3	21350	2560	21.51	22.50	1.256	-0.12	0.976	1.226
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 7	Headset	DSI 3	21100	2535	21.58	22.50	1.236	0.02	0.958	1.184
	LTE Band 7	20M	QPSK	1	0	Front	21mm	Ant 7	-	DSI 4	21350	2560	22.91	24.00	1.285	-0.14	0.187	0.240
	LTE Band 7	20M	QPSK	1	0	Back	27mm	Ant 7	-	DSI 4	21100	2535	23.18	24.00	1.208	-0.1	0.138	0.167
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	21100	2535	21.56	22.50	1.242	-0.05	0.819	1.017
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	20850	2510	21.51	22.50	1.256	0.03	0.776	0.975
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	21350	2560	21.49	22.50	1.262	0.07	0.825	1.041

	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	21100	2535	21.56	22.50	1.242	-0.15	0.991	1.230
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	20850	2510	21.51	22.50	1.256	0.05	0.934	1.173
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	21350	2560	21.49	22.50	1.262	-0.14	0.969	1.223
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 7	Headset	DSI 3	21100	2535	21.56	22.50	1.242	-0.11	0.851	1.057
	LTE Band 7	20M	QPSK	50	0	Front	21mm	Ant 7	-	DSI 4	21350	2560	21.98	23.00	1.265	0.09	0.144	0.182
	LTE Band 7	20M	QPSK	50	0	Back	27mm	Ant 7	-	DSI 4	21100	2535	22.14	23.00	1.219	0.15	0.106	0.129
	LTE Band 7	20M	QPSK	100	0	Front	5mm	Ant 7	-	DSI 3	21100	2535	21.52	22.50	1.253	0.06	0.808	1.013
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 7	-	DSI 3	21100	2535	21.52	22.50	1.253	0.13	0.957	1.199

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 8	-	DSI 3	40185	2549.5	18.95	19.90	1.245	62.9	1.006	0.06	0.395	0.495
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	40185	2549.5	18.95	19.90	1.245	62.9	1.006	0.12	0.744	0.931
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	39750	2506	18.65	19.90	1.334	62.9	1.006	0.02	0.685	0.919
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	40620	2593	18.75	19.90	1.303	62.9	1.006	0.19	0.764	1.002
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	41055	2636.5	18.62	19.90	1.343	62.9	1.006	-0.12	0.693	0.936
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	41490	2680	18.92	19.90	1.253	62.9	1.006	0.01	0.640	0.807
	LTE Band 41C	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	40620 +40818	2593 +2612.8	18.83	19.90	1.279	62.9	1.006	0.14	0.741	0.954
	LTE Band 41	20M	QPSK	1	99	Front	21mm	Ant 8	-	DSI 4	40185	2549.5	23.06	24.00	1.242	62.9	1.006	-0.05	0.087	0.109
	LTE Band 41	20M	QPSK	1	99	Back	27mm	Ant 8	-	DSI 4	40620	2593	22.86	24.00	1.300	62.9	1.006	-0.11	0.097	0.127
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 8	-	DSI 3	40185	2549.5	18.91	19.90	1.256	62.9	1.006	-0.17	0.381	0.481
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	40185	2549.5	18.91	19.90	1.256	62.9	1.006	-0.03	0.729	0.921
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	39750	2506	18.63	19.90	1.340	62.9	1.006	-0.04	0.672	0.906
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	40620	2593	18.69	19.90	1.321	62.9	1.006	0.15	0.750	0.997
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	41055	2636.5	18.56	19.90	1.361	62.9	1.006	0.15	0.681	0.933
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	41490	2680	18.81	19.90	1.285	62.9	1.006	0.03	0.633	0.818
	LTE Band 41	20M	QPSK	50	0	Front	21mm	Ant 8	-	DSI 4	40185	2549.5	22.10	23.00	1.230	62.9	1.006	0.05	0.057	0.071
	LTE Band 41	20M	QPSK	50	0	Back	27mm	Ant 8	-	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	-0.04	0.070	0.089
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 8	-	DSI 3	40185	2549.5	18.88	19.90	1.265	62.9	1.006	0.18	0.724	0.921
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	0.05	0.149	0.185
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	14.98	15.90	1.236	62.9	1.006	-0.18	0.300	0.373
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	39750	2506	14.67	15.90	1.327	62.9	1.006	-0.05	0.280	0.374
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	40620	2593	14.77	15.90	1.297	62.9	1.006	0.12	0.324	0.423
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	41055	2636.5	14.66	15.90	1.330	62.9	1.006	-0.08	0.275	0.368
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	41490	2680	14.90	15.90	1.259	62.9	1.006	0.18	0.250	0.317
	LTE Band 41C	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	40620 +40818	2593 +2612.8	14.96	15.90	1.242	62.9	1.006	0.08	0.303	0.378
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	0.11	0.145	0.181
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	14.96	15.90	1.242	62.9	1.006	-0.19	0.292	0.365
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	40185	2549.5	20.93	21.90	1.250	62.9	1.006	0.06	0.524	0.659
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	39750	2506	20.86	21.90	1.271	62.9	1.006	0.07	0.508	0.649
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	40620	2593	20.68	21.90	1.324	62.9	1.006	0.05	0.558	0.743
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	41055	2636.5	20.50	21.90	1.380	62.9	1.006	0.14	0.648	0.900
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	41490	2680	20.90	21.90	1.259	62.9	1.006	0.11	0.667	0.845
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	40185	2549.5	20.93	21.90	1.250	62.9	1.006	0.04	0.700	0.880
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	39750	2506	20.86	21.90	1.271	62.9	1.006	0.15	0.685	0.876
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	40620	2593	20.68	21.90	1.324	62.9	1.006	0.17	0.689	0.918
78	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	41055	2636.5	20.50	21.90	1.380	62.9	1.006	0.17	0.754	**1.047**
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	41490	2680	20.90	21.90	1.259	62.9	1.006	-0.19	0.730	0.925
	LTE Band 41C	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	41055 +41253	2636.5 +2656.3	20.91	21.90	1.256	62.9	1.006	0.06	0.743	0.939
	LTE Band 41	20M	QPSK	1	99	Front	21mm	Ant 7	-	DSI 4	41055	2636.5	22.78	24.00	1.324	62.9	1.006	0.05	0.150	0.200
	LTE Band 41	20M	QPSK	1	99	Back	27mm	Ant 7	-	DSI 4	41055	2636.5	22.78	24.00	1.324	62.9	1.006	0.02	0.122	0.163
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	40185	2549.5	20.90	21.90	1.259	62.9	1.006	0.08	0.517	0.655
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	39750	2506	20.85	21.90	1.274	62.9	1.006	0.12	0.498	0.638
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	40620	2593	20.66	21.90	1.330	62.9	1.006	0.07	0.543	0.727
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	41055	2636.5	20.47	21.90	1.390	62.9	1.006	0.15	0.642	0.898
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	41490	2680	20.88	21.90	1.265	62.9	1.006	0.09	0.655	0.833
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	40185	2549.5	20.90	21.90	1.259	62.9	1.006	-0.13	0.689	0.873
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	39750	2506	20.85	21.90	1.274	62.9	1.006	0.11	0.670	0.858
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	40620	2593	20.66	21.90	1.330	62.9	1.006	-0.16	0.694	0.929
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	41055	2636.5	20.47	21.90	1.390	62.9	1.006	-0.08	0.745	1.042
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	41490	2680	20.88	21.90	1.265	62.9	1.006	0.12	0.739	0.940
	LTE Band 41	20M	QPSK	50	0	Front	21mm	Ant 7	-	DSI 4	41055	2636.5	21.93	23.00	1.279	62.9	1.006	-0.11	0.108	0.139

	LTE Band 41	20M	QPSK	50	0	Back	27mm	Ant 7	-	DSI 4	41055	2636.5	21.93	23.00	1.279	62.9	1.006	-0.08	0.082	0.106
	LTE Band 41	20M	QPSK	100	0	Front	5mm	Ant 7	-	DSI 3	40185	2549.5	20.88	21.90	1.265	62.9	1.006	0.15	0.511	0.650
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 7	-	DSI 3	40185	2549.5	20.88	21.90	1.265	62.9	1.006	0.01	0.682	0.868
	LTE Band 41	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	-0.09	0.415	0.517
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	19.97	20.90	1.239	62.9	1.006	0.01	0.551	0.687
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	39750	2506	19.74	20.90	1.306	62.9	1.006	0.1	0.509	0.669
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	40620	2593	19.66	20.90	1.330	62.9	1.006	0.12	0.507	0.679
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	41055	2636.5	19.69	20.90	1.321	62.9	1.006	0.16	0.620	0.824
	LTE Band 41	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	41490	2680	19.73	20.90	1.309	62.9	1.006	-0.07	0.616	0.811
	LTE Band 41C	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	41055 +41253	2636.5 +2656.3	19.89	20.90	1.262	62.9	1.006	0.14	0.600	0.762
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	-0.19	0.414	0.520
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	19.94	20.90	1.247	62.9	1.006	-0.03	0.553	0.694
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	39750	2506	19.72	20.90	1.312	62.9	1.006	0.09	0.503	0.664
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	40620	2593	19.65	20.90	1.334	62.9	1.006	-0.14	0.513	0.688
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	41055	2636.5	19.67	20.90	1.327	62.9	1.006	-0.12	0.608	0.812
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	41490	2680	19.70	20.90	1.318	62.9	1.006	-0.16	0.607	0.805
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	19.92	20.90	1.253	62.9	1.006	0.03	0.547	0.690
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 8	-	DSI 3	40185	2549.5	20.62	21.50	1.225	42.9	1.009	-0.19	0.363	0.449
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	40185	2549.5	20.62	21.50	1.225	42.9	1.009	0.06	0.830	1.026
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	39750	2506	20.47	21.50	1.268	42.9	1.009	-0.16	0.798	1.021
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	40620	2593	20.55	21.50	1.245	42.9	1.009	0.03	0.769	0.966
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	41055	2636.5	20.39	21.50	1.291	42.9	1.009	-0.06	0.727	0.947
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3	41490	2680	20.48	21.50	1.265	42.9	1.009	-0.02	0.667	0.851
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	21mm	Ant 8	-	DSI 4	40185	2549.5	26.00	27.00	1.259	42.9	1.009	-0.13	0.101	0.128
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	27mm	Ant 8	-	DSI 4	40185	2549.5	26.00	27.00	1.259	42.9	1.009	0.06	0.123	0.156
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 8	-	DSI 3	40185	2549.5	20.60	21.50	1.230	42.9	1.009	0.13	0.352	0.437
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	40185	2549.5	20.60	21.50	1.230	42.9	1.009	-0.07	0.821	1.019
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	39750	2506	20.45	21.50	1.274	42.9	1.009	-0.04	0.790	1.015
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	40620	2593	20.53	21.50	1.250	42.9	1.009	0.12	0.763	0.963
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	41055	2636.5	20.35	21.50	1.303	42.9	1.009	-0.15	0.730	0.960
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3	41490	2680	20.45	21.50	1.274	42.9	1.009	-0.03	0.677	0.870
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	21mm	Ant 8	-	DSI 4	40185	2549.5	25.27	26.00	1.183	42.9	1.009	-0.14	0.076	0.091
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	27mm	Ant 8	-	DSI 4	40185	2549.5	25.27	26.00	1.183	42.9	1.009	-0.08	0.099	0.118
	LTE Band 41(HPUE)	20M	QPSK	100	0	Back	5mm	Ant 8	-	DSI 3	40185	2549.5	20.59	21.50	1.233	42.9	1.009	0.13	0.817	1.017
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	-0.1	0.139	0.167
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	16.73	17.50	1.194	42.9	1.009	0.1	0.321	0.387
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	39750	2506	16.57	17.50	1.239	42.9	1.009	0.12	0.296	0.370
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	40620	2593	16.66	17.50	1.213	42.9	1.009	-0.17	0.319	0.391
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	41055	2636.5	16.45	17.50	1.274	42.9	1.009	0.18	0.302	0.388
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 8	-	DSI 3 (Sim)	41490	2680	16.53	17.50	1.250	42.9	1.009	0.14	0.264	0.333
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	0.03	0.134	0.162
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 8	-	DSI 3 (Sim)	40185	2549.5	16.71	17.50	1.199	42.9	1.009	-0.03	0.315	0.381
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	40185	2549.5	22.59	23.50	1.233	42.9	1.009	-0.1	0.512	0.637
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	39750	2506	22.45	23.50	1.274	42.9	1.009	0.05	0.486	0.624
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	40620	2593	22.49	23.50	1.262	42.9	1.009	-0.15	0.542	0.690
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	41055	2636.5	22.37	23.50	1.297	42.9	1.009	-0.15	0.580	0.759
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3	41490	2680	22.51	23.50	1.256	42.9	1.009	0.11	0.574	0.727
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	40185	2549.5	22.59	23.50	1.233	42.9	1.009	-0.11	0.690	0.858
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	39750	2506	22.45	23.50	1.274	42.9	1.009	0.05	0.663	0.852
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	40620	2593	22.49	23.50	1.262	42.9	1.009	-0.15	0.697	0.887
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	41055	2636.5	22.37	23.50	1.297	42.9	1.009	-0.15	0.747	0.978
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3	41490	2680	22.51	23.50	1.256	42.9	1.009	0.11	0.744	0.943
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	21mm	Ant 7	-	DSI 4	41055	2636.5	25.73	27.00	1.340	42.9	1.009	0.12	0.185	0.250
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	27mm	Ant 7	-	DSI 4	41055	2636.5	25.73	27.00	1.340	42.9	1.009	0.08	0.151	0.204
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	40185	2549.5	22.57	23.50	1.239	42.9	1.009	0.02	0.496	0.620
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	39750	2506	22.42	23.50	1.282	42.9	1.009	0.06	0.475	0.615

	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	40620	2593	22.47	23.50	1.268	42.9	1.009	0.1	0.533	0.682
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	41055	2636.5	22.34	23.50	1.306	42.9	1.009	-0.01	0.565	0.745
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3	41490	2680	22.48	23.50	1.265	42.9	1.009	0.05	0.561	0.716
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	40185	2549.5	22.57	23.50	1.239	42.9	1.009	0.1	0.661	0.826
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	39750	2506	22.42	23.50	1.282	42.9	1.009	0.02	0.637	0.824
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	40620	2593	22.47	23.50	1.268	42.9	1.009	0.16	0.682	0.872
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	41055	2636.5	22.34	23.50	1.306	42.9	1.009	-0.04	0.709	0.934
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3	41490	2680	22.48	23.50	1.265	42.9	1.009	0.19	0.692	0.883
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	21mm	Ant 7	-	DSI 4	41055	2636.5	25.43	26.00	1.140	42.9	1.009	0.03	0.156	0.179
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	27mm	Ant 7	-	DSI 4	41055	2636.5	25.43	26.00	1.140	42.9	1.009	-0.16	0.132	0.152
	LTE Band 41(HPUE)	20M	QPSK	100	0	Front	5mm	Ant 7	-	DSI 3	40185	2549.5	22.55	23.50	1.245	42.9	1.009	0.03	0.501	0.629
	LTE Band 41(HPUE)	20M	QPSK	100	0	Back	5mm	Ant 7	-	DSI 3	40185	2549.5	22.55	23.50	1.245	42.9	1.009	0.15	0.673	0.845
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	-0.13	0.408	0.497
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	21.68	22.50	1.208	42.9	1.009	-0.05	0.548	0.668
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	39750	2506	21.45	22.50	1.274	42.9	1.009	-0.06	0.522	0.671
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	40620	2593	21.59	22.50	1.233	42.9	1.009	0.13	0.564	0.702
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	41055	2636.5	21.54	22.50	1.247	42.9	1.009	0.08	0.613	0.772
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	5mm	Ant 7	-	DSI 3 (Sim)	41490	2680	21.52	22.50	1.253	42.9	1.009	0.17	0.599	0.757
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	0.18	0.398	0.488
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	21.65	22.50	1.216	42.9	1.009	0.1	0.542	0.665
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	39750	2506	21.43	22.50	1.279	42.9	1.009	-0.13	0.508	0.656
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	40620	2593	21.55	22.50	1.245	42.9	1.009	0.16	0.554	0.696
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	41055	2636.5	21.52	22.50	1.253	42.9	1.009	0.08	0.592	0.749
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	41490	2680	21.50	22.50	1.259	42.9	1.009	0.02	0.583	0.741
	LTE Band 41(HPUE)	20M	QPSK	100	0	Back	5mm	Ant 7	-	DSI 3 (Sim)	40185	2549.5	21.63	22.50	1.222	42.9	1.009	0.03	0.535	0.660
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 4	-	DSI 3	55830	3609	19.52	20.00	1.117	62.9	1.006	0.05	0.169	0.190
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3	55830	3609	19.52	20.00	1.117	62.9	1.006	-0.06	0.792	0.890
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3	55340	3560	19.44	20.00	1.138	62.9	1.006	0.18	0.729	0.834
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3	56150	3641	19.35	20.00	1.161	62.9	1.006	-0.04	0.835	0.976
79	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3	56640	3690	19.34	20.00	1.164	62.9	1.006	0.02	1.070	**1.253**
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	Headset	DSI 3	56640	3690	19.34	20.00	1.164	62.9	1.006	-0.14	1.040	1.218
	LTE Band 48C	20M	QPSK	1	0	Back	5mm	Ant 4	-	DSI 3	56640 +56442	3690 +3670.2	19.48	20.00	1.127	62.9	1.006	0.08	0.974	1.104
	LTE Band 48	20M	QPSK	1	99	Front	21mm	Ant 4	-	DSI 4	55830	3609	23.56	24.00	1.107	62.9	1.006	0.09	0.082	0.091
	LTE Band 48	20M	QPSK	1	99	Back	27mm	Ant 4	-	DSI 4	56640	3690	23.34	24.00	1.164	62.9	1.006	0.16	0.242	0.283
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 4	-	DSI 3	55830	3609	19.50	20.00	1.122	62.9	1.006	-0.04	0.167	0.189
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	-	DSI 3	55830	3609	19.50	20.00	1.122	62.9	1.006	-0.05	0.785	0.886
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	-	DSI 3	55340	3560	19.41	20.00	1.146	62.9	1.006	-0.1	0.716	0.825
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	-	DSI 3	56150	3641	19.33	20.00	1.167	62.9	1.006	0.11	0.827	0.971
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	-	DSI 3	56640	3690	19.32	20.00	1.169	62.9	1.006	-0.15	1.060	1.247
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	-	DSI 3	56640	3690	19.32	20.00	1.169	62.9	1.006	0.08	1.010	1.188
	LTE Band 48	20M	QPSK	50	0	Front	21mm	Ant 4	-	DSI 4	55830	3609	21.31	23.00	1.476	62.9	1.006	0.15	0.050	0.074
	LTE Band 48	20M	QPSK	50	0	Back	27mm	Ant 4	-	DSI 4	56640	3690	21.18	23.00	1.521	62.9	1.006	-0.05	0.136	0.208
	LTE Band 48	20M	QPSK	100	0	Back	5mm	Ant 4	-	DSI 3	55830	3609	19.48	20.00	1.127	62.9	1.006	0.06	0.780	0.884
	LTE Band 48	20M	QPSK	1	99	Front	5mm	Ant 4	-	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	0.01	0.080	0.095
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3 (Sim)	55830	3609	15.79	16.50	1.178	62.9	1.006	-0.04	0.385	0.456
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3 (Sim)	55340	3560	15.73	16.50	1.194	62.9	1.006	-0.09	0.376	0.452
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3 (Sim)	56150	3641	15.76	16.50	1.186	62.9	1.006	0.12	0.393	0.469
	LTE Band 48	20M	QPSK	1	99	Back	5mm	Ant 4	-	DSI 3 (Sim)	56640	3690	15.75	16.50	1.189	62.9	1.006	-0.18	0.439	0.525
	LTE Band 48C	20M	QPSK	1	0	Back	5mm	Ant 4	-	DSI 3 (Sim)	56640 +56442	3690 +3670.2	15.75	16.50	1.189	62.9	1.006	0.05	0.414	0.495
	LTE Band 48	20M	QPSK	50	0	Front	5mm	Ant 4	-	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	0.08	0.077	0.091
	LTE Band 48	20M	QPSK	50	0	Back	5mm	Ant 4	-	DSI 3 (Sim)	55830	3609	15.78	16.50	1.180	62.9	1.006	0.02	0.371	0.441

<5GNR NSA 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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 N71	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	136100	680.5	23.10	24.00	1.230	-0.03	0.093	0.114
	FR1 N71	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	136100	680.5	23.10	24.00	1.230	-0.09	0.236	0.290
	FR1 N71	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	136100	680.5	23.05	24.00	1.245	-0.04	0.091	0.113
	FR1 N71	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	136100	680.5	23.05	24.00	1.245	-0.13	0.230	0.286
	FR1 N71	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3 / Full	136100	680.5	23.25	24.00	1.189	0.04	0.187	0.222
80	FR1 N71	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3 / Full	136100	680.5	23.25	24.00	1.189	0.12	0.375	**0.446**
	FR1 N71	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 1	-	DSI 3 / Full	136100	680.5	23.21	24.00	1.199	-0.09	0.174	0.209
	FR1 N71	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI 3 / Full	136100	680.5	23.21	24.00	1.199	-0.18	0.333	0.399
	FR1 N12	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	141500	707.5	23.17	24.00	1.211	-0.17	0.197	0.238
81	FR1 N12	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	141500	707.5	23.17	24.00	1.211	-0.11	0.322	**0.390**
	FR1 N12	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	141500	707.5	23.12	24.00	1.225	0.14	0.209	0.256
	FR1 N12	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	141500	707.5	23.12	24.00	1.225	0.05	0.315	0.386
	FR1 N14	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	158600	793	23.02	24.00	1.253	0.16	0.300	0.376
82	FR1 N14	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	158600	793	23.02	24.00	1.253	0.08	0.407	**0.510**
	FR1 N14	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	158600	793	22.96	24.00	1.271	0.08	0.282	0.358
	FR1 N14	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	158600	793	22.96	24.00	1.271	-0.03	0.351	0.446
	FR1 N26	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	166300	831.5	23.19	24.00	1.205	-0.08	0.363	0.437
83	FR1 N26	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	166300	831.5	23.19	24.00	1.205	-0.14	0.502	**0.605**
	FR1 N26	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	166300	831.5	23.13	24.00	1.222	0.15	0.357	0.436
	FR1 N26	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	166300	831.5	23.13	24.00	1.222	0.14	0.484	0.591
	FR1 N5	20M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3 / Full	167300	836.5	23.25	24.00	1.189	-0.11	0.386	0.459
84	FR1 N5	20M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3 / Full	167300	836.5	23.25	24.00	1.189	-0.02	0.678	**0.806**
	FR1 N5	20M	BPSK	50	28	DFT-15	Front	5mm	Ant 1	-	DSI 3 / Full	167300	836.5	23.23	24.00	1.194	-0.02	0.301	0.359
	FR1 N5	20M	BPSK	50	28	DFT-15	Back	5mm	Ant 1	-	DSI 3 / Full	167300	836.5	23.23	24.00	1.194	0.17	0.617	0.737
	FR1 N5	20M	BPSK	100	0	DFT-15	Back	5mm	Ant 1	-	DSI 3 / Full	167300	836.5	23.16	24.00	1.213	0.05	0.621	0.754
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	340500	1702.5	23.29	24.00	1.178	-0.03	0.143	0.168
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	340500	1702.5	23.29	24.00	1.178	-0.03	0.185	0.218
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	340500	1702.5	23.23	24.00	1.194	-0.03	0.145	0.173
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	340500	1702.5	23.23	24.00	1.194	-0.01	0.196	0.234
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	340500	1702.5	18.12	19.00	1.225	0.17	0.785	0.961
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	340500	1702.5	18.12	19.00	1.225	-0.08	0.897	1.098
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	21mm	Ant 1	-	DSI 4	340500	1702.5	23.28	24.00	1.180	-0.19	0.211	0.249
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	27mm	Ant 1	-	DSI 4	340500	1702.5	23.28	24.00	1.180	0.05	0.194	0.229
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 1	-	DSI 3	340500	1702.5	18.11	19.00	1.227	0.01	0.811	0.995
85	FR1 N70	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 1	-	DSI 3	340500	1702.5	18.11	19.00	1.227	0.04	0.934	**1.146**
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	21mm	Ant 1	-	DSI 4	340500	1702.5	23.24	24.00	1.191	-0.15	0.201	0.239
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	27mm	Ant 1	-	DSI 4	340500	1702.5	23.24	24.00	1.191	0.11	0.192	0.229
	FR1 N70	15M	BPSK	75	0	DFT-15	Front	5mm	Ant 1	-	DSI 3	340500	1702.5	18.06	19.00	1.242	0.05	0.798	0.991
	FR1 N70	15M	BPSK	75	0	DFT-15	Back	5mm	Ant 1	-	DSI 3	340500	1702.5	18.06	19.00	1.242	0.14	0.915	1.136
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	-0.05	0.653	0.773
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	340500	1702.5	17.27	18.00	1.183	-0.03	0.761	0.900
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	5mm	Ant 1	-	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	-0.13	0.665	0.790
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	0.13	0.788	0.937
	FR1 N70	15M	BPSK	75	0	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	340500	1702.5	17.22	18.00	1.197	0.13	0.768	0.919
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	349000	1745	23.23	24.00	1.194	0.18	0.465	0.555
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	349000	1745	23.23	24.00	1.194	-0.12	0.737	0.880
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 2	-	DSI 3 / Full	349000	1745	23.17	24.00	1.211	-0.12	0.486	0.588
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	349000	1745	23.17	24.00	1.211	-0.15	0.725	0.878
	FR1 N66	40M	BPSK	216	0	DFT-15	Back	5mm	Ant 2	-	DSI 3 / Full	349000	1745	22.63	23.50	1.222	0.07	0.685	0.837
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	0.17	0.278	0.330
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 (Sim)	349000	1745	21.25	22.00	1.189	-0.13	0.486	0.578
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	21mm	Ant 2	-	DSI 4	349000	1745	23.23	24.00	1.194	0.06	0.225	0.269

	FR1 N66	40M	BPSK	1	1	DFT-15	Back	27mm	Ant 2	-	DSI 4	349000	1745	23.23	24.00	1.194	-0.14	0.209	0.250
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 2	-	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	0.12	0.275	0.328
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	-	DSI 3 (Sim)	349000	1745	21.23	22.00	1.194	-0.12	0.481	0.574
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	21mm	Ant 2	-	DSI 4	349000	1745	23.17	24.00	1.211	0.07	0.206	0.249
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	27mm	Ant 2	-	DSI 4	349000	1745	23.17	24.00	1.211	0.02	0.182	0.220
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.15	18.00	1.216	0.18	0.733	0.891
86	FR1 N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.15	18.00	1.216	-0.13	0.909	**1.106**
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	21mm	Ant 1	-	DSI 4	349000	1745	23.28	24.00	1.180	-0.15	0.235	0.277
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	27mm	Ant 1	-	DSI 4	349000	1745	23.28	24.00	1.180	0.1	0.219	0.258
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.13	18.00	1.222	0.06	0.731	0.893
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.13	18.00	1.222	-0.1	0.890	1.087
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	21mm	Ant 1	-	DSI 4	349000	1745	23.22	24.00	1.197	0.18	0.209	0.250
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	27mm	Ant 1	-	DSI 4	349000	1745	23.22	24.00	1.197	-0.1	0.185	0.221
	FR1 N66	40M	BPSK	216	0	DFT-15	Front	5mm	Ant 1	-	DSI 3	349000	1745	17.11	18.00	1.227	0.06	0.726	0.891
	FR1 N66	40M	BPSK	216	0	DFT-15	Back	5mm	Ant 1	-	DSI 3	349000	1745	17.11	18.00	1.227	0.13	0.885	1.086
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	-0.13	0.521	0.641
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	349000	1745	15.60	16.50	1.230	0.1	0.627	0.771
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	0.17	0.516	0.638
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	349000	1745	15.58	16.50	1.236	-0.14	0.625	0.772
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3	376500	1882.5	21.76	22.50	1.186	-0.19	0.536	0.636
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3	376500	1882.5	21.76	22.50	1.186	-0.12	1.020	1.209
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	Headset	DSI 3	376500	1882.5	21.76	22.50	1.186	0.12	0.990	1.174
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	21mm	Ant 2	-	DSI 4	376500	1882.5	23.28	24.00	1.180	0.1	0.068	0.080
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	27mm	Ant 2	-	DSI 4	376500	1882.5	23.28	24.00	1.180	-	n/a	n/a
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 2	-	DSI 3	376500	1882.5	21.73	22.50	1.194	-0.17	0.552	0.659
87	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	-	DSI 3	376500	1882.5	21.73	22.50	1.194	0.06	1.050	**1.254**
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	Headset	DSI 3	376500	1882.5	21.73	22.50	1.194	0.11	1.010	1.206
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	21mm	Ant 2	-	DSI 4	376500	1882.5	23.24	24.00	1.191	-0.12	0.064	0.076
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	27mm	Ant 2	-	DSI 4	376500	1882.5	23.24	24.00	1.191	-	n/a	n/a
	FR1 N25	40M	BPSK	216	0	DFT-15	Back	5mm	Ant 2	-	DSI 3	376500	1882.5	21.71	22.50	1.199	0.08	1.000	1.199
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 2	-	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	0.08	0.224	0.295
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 2	-	DSI 3 (Sim)	376500	1882.5	17.80	19.00	1.318	0.08	0.462	0.609
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 2	-	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-0.03	0.225	0.297
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 2	-	DSI 3 (Sim)	376500	1882.5	17.79	19.00	1.321	-0.01	0.467	0.617
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3	376500	1882.5	17.25	18.00	1.189	-0.14	0.687	0.817
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3	376500	1882.5	17.25	18.00	1.189	0.08	0.869	1.033
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	21mm	Ant 1	-	DSI 4	376500	1882.5	23.30	24.00	1.175	-0.14	0.262	0.308
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	27mm	Ant 1	-	DSI 4	376500	1882.5	23.30	24.00	1.175	-0.01	0.250	0.294
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3	376500	1882.5	17.23	18.00	1.194	-0.08	0.704	0.841
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3	376500	1882.5	17.23	18.00	1.194	0.19	0.903	1.078
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	21mm	Ant 1	-	DSI 4	376500	1882.5	23.26	24.00	1.186	0.19	0.262	0.311
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	27mm	Ant 1	-	DSI 4	376500	1882.5	23.26	24.00	1.186	-0.16	0.269	0.319
	FR1 N25	40M	BPSK	216	0	DFT-15	Front	5mm	Ant 1	-	DSI 3	376500	1882.5	17.20	18.00	1.202	0.08	0.691	0.831
	FR1 N25	40M	BPSK	216	0	DFT-15	Back	5mm	Ant 1	-	DSI 3	376500	1882.5	17.20	18.00	1.202	0.13	0.875	1.052
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	5mm	Ant 1	-	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	0.05	0.527	0.612
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	376500	1882.5	16.35	17.00	1.161	0.01	0.697	0.810
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	5mm	Ant 1	-	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	0.07	0.561	0.656
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	376500	1882.5	16.32	17.00	1.169	0.19	0.741	0.867
	FR1 N25	40M	BPSK	216	0	DFT-15	Back	5mm	Ant 1	-	DSI 3 (Sim)	376500	1882.5	16.30	17.00	1.175	0.03	0.545	0.640
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 8	-	DSI 3	462000	2310	18.14	19.00	1.219	0.17	0.450	0.549
88	FR1 N30	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 8	-	DSI 3	462000	2310	18.14	19.00	1.219	-0.03	0.906	**1.104**
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	21mm	Ant 8	-	DSI 4	462000	2310	23.28	24.00	1.180	-0.03	0.133	0.157
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	27mm	Ant 8	-	DSI 4	462000	2310	23.28	24.00	1.180	0.05	0.155	0.183
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 8	-	DSI 3	462000	2310	18.13	19.00	1.222	0.09	0.395	0.483
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 8	-	DSI 3	462000	2310	18.13	19.00	1.222	0.03	0.853	1.042

	FR1 N30	10M	BPSK	25	14	DFT-15	Front	21mm	Ant 8	-	DSI 4	462000	2310	23.19	24.00	1.205	0.03	0.128	0.154
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	27mm	Ant 8	-	DSI 4	462000	2310	23.19	24.00	1.205	-0.16	0.154	0.186
	FR1 N30	10M	BPSK	50	0	DFT-15	Back	5mm	Ant 8	-	DSI 3	462000	2310	18.09	19.00	1.233	0.06	0.866	1.068
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 8	-	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	0.01	0.172	0.211
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 8	-	DSI 3 (Sim)	462000	2310	14.12	15.00	1.225	0.02	0.333	0.408
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 8	-	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	0.12	0.175	0.215
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 8	-	DSI 3 (Sim)	462000	2310	14.11	15.00	1.227	0.12	0.346	0.425
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	5mm	Ant 7	-	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	-0.19	0.452	0.531
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	5mm	Ant 7	-	DSI 3 (Sim)	462000	2310	21.30	22.00	1.175	-0.18	0.911	1.070
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	21mm	Ant 7	-	DSI 4	462000	2310	23.30	24.00	1.175	-0.04	0.117	0.137
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	27mm	Ant 7	-	DSI 4	462000	2310	23.30	24.00	1.175	-0.05	0.105	0.123
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	5mm	Ant 7	-	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	0.13	0.462	0.545
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	5mm	Ant 7	-	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	-0.04	0.903	1.066
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	21mm	Ant 7	-	DSI 4	462000	2310	23.23	24.00	1.194	0.08	0.122	0.146
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	27mm	Ant 7	-	DSI 4	462000	2310	23.23	24.00	1.194	0.08	0.100	0.119
	FR1 N30	10M	BPSK	50	0	DFT-15	Back	5mm	Ant 7	-	DSI 3 (Sim)	462000	2310	21.25	22.00	1.189	0.08	0.886	1.053
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3 / Full	518598	2592.99	19.14	20.00	1.219	0.06	0.020	0.024
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3 / Full	518598	2592.99	19.14	20.00	1.219	0.14	1.010	1.231
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	Headset	DSI 3 / Full	518598	2592.99	19.14	20.00	1.219	-0.03	1.000	1.219
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3 / Full	518598	2592.99	19.12	20.00	1.225	0.05	0.018	0.022
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3 / Full	518598	2592.99	19.12	20.00	1.225	0.13	0.992	1.215
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	Headset	DSI 3 / Full	518598	2592.99	19.12	20.00	1.225	0.08	0.955	1.170
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	-	DSI 3 / Full	518598	2592.99	19.10	20.00	1.230	0.07	0.985	1.212
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	0.03	0.010	0.012
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	518598	2592.99	16.24	17.00	1.191	-0.15	0.516	0.615
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 6	-	DSI 4	518598	2592.99	19.14	20.00	1.219	0.01	0.005	0.006
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 6	-	DSI 4	518598	2592.99	19.14	20.00	1.219	0.05	0.030	0.036
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	0.06	0.009	0.011
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	518598	2592.99	16.21	17.00	1.199	-0.03	0.505	0.606
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 6	-	DSI 4	518598	2592.99	19.12	20.00	1.225	0.05	0.004	0.005
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 6	-	DSI 4	518598	2592.99	19.12	20.00	1.225	0.02	0.028	0.034
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	518598	2592.99	16.18	17.00	1.208	0.07	0.502	0.606
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 7	-	DSI 3	518598	2592.99	20.07	21.00	1.239	-0.1	0.689	0.854
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	20.07	21.00	1.239	-0.08	0.943	1.168
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 7	-	DSI 4	518598	2592.99	26.14	27.00	1.219	0.15	0.333	0.406
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 7	-	DSI 4	518598	2592.99	26.14	27.00	1.219	-0.03	0.270	0.329
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 7	-	DSI 3	518598	2592.99	20.05	21.00	1.245	0.18	0.715	0.890
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	20.05	21.00	1.245	0.08	0.951	1.184
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 7	-	DSI 4	518598	2592.99	26.06	27.00	1.242	-0.12	0.255	0.317
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 7	-	DSI 4	518598	2592.99	26.06	27.00	1.242	0.09	0.217	0.269
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Front	5mm	Ant 7	-	DSI 3	518598	2592.99	20.02	21.00	1.253	0.03	0.691	0.866
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 7	-	DSI 3	518598	2592.99	20.02	21.00	1.253	0.12	0.940	1.178
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI 3	518598	2592.99	19.00	20.00	1.259	-0.01	0.486	0.612
89	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3	518598	2592.99	19.00	20.00	1.259	0.06	0.982	**1.236**
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	Headset	DSI 3	518598	2592.99	19.00	20.00	1.259	-0.16	0.977	1.230
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 8	-	DSI 4	518598	2592.99	25.88	27.00	1.294	-0.14	0.202	0.261
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 8	-	DSI 4	518598	2592.99	25.88	27.00	1.294	0.15	0.219	0.283
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI 3	518598	2592.99	18.98	20.00	1.265	-0.19	0.476	0.602
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI 3	518598	2592.99	18.98	20.00	1.265	-0.04	0.973	1.231
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	Headset	DSI 3	518598	2592.99	18.98	20.00	1.265	-0.13	0.970	1.227
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 8	-	DSI 4	518598	2592.99	25.81	27.00	1.315	0.05	0.219	0.288
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 8	-	DSI 4	518598	2592.99	25.81	27.00	1.315	0.1	0.222	0.292
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Front	5mm	Ant 8	-	DSI 3	518598	2592.99	18.97	20.00	1.268	0.03	0.474	0.601
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 8	-	DSI 3	518598	2592.99	18.97	20.00	1.268	0.16	0.970	1.230
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 8	-	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	-0.13	0.153	0.182

	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 8	-	DSI 3 (Sim)	518598	2592.99	13.74	14.50	1.191	-0.12	0.347	0.413
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 8	-	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	0.12	0.163	0.195
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 8	-	DSI 3 (Sim)	518598	2592.99	13.72	14.50	1.197	-0.16	0.349	0.418
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 9	-	DSI 3	518598	2592.99	15.65	16.50	1.216	0.03	0.052	0.063
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 9	-	DSI 3	518598	2592.99	15.65	16.50	1.216	0.12	1.000	1.216
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 9	Headset	DSI 3	518598	2592.99	15.65	16.50	1.216	0.06	0.988	1.202
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 9	-	DSI 4	518598	2592.99	19.07	20.00	1.239	0.09	0.013	0.017
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 9	-	DSI 4	518598	2592.99	19.07	20.00	1.239	0.03	0.058	0.072
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 9	-	DSI 3	518598	2592.99	15.62	16.50	1.225	0.05	0.049	0.060
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 9	-	DSI 3	518598	2592.99	15.62	16.50	1.225	0.13	0.945	1.157
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 9	-	DSI 4	518598	2592.99	19.05	20.00	1.245	0.06	0.011	0.014
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 9	-	DSI 4	518598	2592.99	19.05	20.00	1.245	0.02	0.057	0.071
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 9	-	DSI 3	518598	2592.99	15.59	16.50	1.233	0.05	0.950	1.171
	FR1 N41	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 9	-	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.11	0.031	0.038
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 9	-	DSI 3 (Sim)	518598	2592.99	13.13	14.00	1.222	0.13	0.506	0.618
	FR1 N41	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 9	-	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	0.12	0.029	0.036
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 9	-	DSI 3 (Sim)	518598	2592.99	13.10	14.00	1.230	0.08	0.497	0.611
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 9	-	DSI 3 (Sim)	518598	2592.99	13.08	14.00	1.236	0.06	0.494	0.611
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3	633334	3500.01	12.24	13.00	1.191	-0.15	0.053	0.063
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	633334	3500.01	12.24	13.00	1.191	-0.04	0.166	0.198
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 4	-	DSI 4	633334	3500.01	26.10	27.00	1.230	0.17	0.091	0.112
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 4	-	DSI 4	633334	3500.01	26.10	27.00	1.230	-0.09	0.100	0.123
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 4	-	DSI 3	633334	3500.01	12.22	13.00	1.197	0.14	0.058	0.069
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	-	DSI 3	633334	3500.01	12.22	13.00	1.197	0.09	0.178	0.213
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 4	-	DSI 4	633334	3500.01	26.05	27.00	1.245	-0.05	0.092	0.114
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 4	-	DSI 4	633334	3500.01	26.05	27.00	1.245	-0.18	0.120	0.149
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	0.05	0.024	0.029
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3(Sim)	633334	3500.01	9.18	10.00	1.208	-0.14	0.082	0.099
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 4	-	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	-0.13	0.029	0.035
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	-	DSI 3(Sim)	633334	3500.01	9.15	10.00	1.216	0.01	0.088	0.107
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3	656000	3840	12.20	13.00	1.202	0.11	0.083	0.100
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3	656000	3840	12.20	13.00	1.202	-0.19	0.852	1.024
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 4	-	DSI 4	656000	3840	25.31	27.00	1.476	-0.16	0.099	0.146
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 4	-	DSI 4	656000	3840	25.31	27.00	1.476	-0.09	0.537	0.792
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 4	-	DSI 3	656000	3840	12.19	13.00	1.205	-0.13	0.094	0.113
90	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	-	DSI 3	656000	3840	12.19	13.00	1.205	0.07	1.040	**1.253**
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	Headset	DSI 3	656000	3840	12.19	13.00	1.205	-0.05	0.971	1.170
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 4	-	DSI 4	656000	3840	25.30	27.00	1.479	-0.09	0.120	0.177
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 4	-	DSI 4	656000	3840	25.30	27.00	1.479	0.17	0.629	0.930
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 4	-	DSI 3	656000	3840	12.17	13.00	1.211	0.05	0.982	1.189
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 4	-	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	-0.12	0.042	0.051
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 4	-	DSI 3(Sim)	656000	3840	9.15	10.00	1.216	0.18	0.436	0.530
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 4	-	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	-0.1	0.047	0.057
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	-	DSI 3(Sim)	656000	3840	9.13	10.00	1.222	0.06	0.499	0.610
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 4	-	DSI 3(Sim)	656000	3840	9.11	10.00	1.227	0.08	0.474	0.582
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	-	DSI 3 / Full	633334	3500.01	19.72	20.50	1.197	0.05	0.048	0.057
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI 3 / Full	633334	3500.01	19.72	20.50	1.197	-0.13	0.726	0.869
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 5	-	DSI 3 / Full	633334	3500.01	19.64	20.50	1.219	-0.19	0.046	0.056
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 5	-	DSI 3 / Full	633334	3500.01	19.64	20.50	1.219	0.16	0.704	0.858
	FR1 N77	100M	BPSK	270	0	DFT-30	Front	5mm	Ant 5	-	DSI 3 / Full	633334	3500.01	19.60	20.50	1.230	0.08	0.709	0.872
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	-	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	0.02	0.024	0.029
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI 3 (Sim)	633334	3500.01	16.71	17.50	1.199	-0.1	0.380	0.456
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 5	-	DSI 4	633334	3500.01	19.72	20.50	1.197	0.05	0.006	0.007
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 5	-	DSI 4	633334	3500.01	19.72	20.50	1.197	0.13	0.027	0.032
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 5	-	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	-0.19	0.022	0.027

	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 5	-	DSI 3 (Sim)	633334	3500.01	16.69	17.50	1.205	-0.07	0.356	0.429
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 5	-	DSI 4	633334	3500.01	19.64	20.50	1.219	0.04	0.005	0.006
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 5	-	DSI 4	633334	3500.01	19.64	20.50	1.219	0.06	0.026	0.031
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	-	DSI 3 / Full	656000	3840	19.74	20.50	1.191	0.07	0.037	0.044
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI 3 / Full	656000	3840	19.74	20.50	1.191	0.16	0.985	1.173
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 5	-	DSI 3 / Full	656000	3840	19.69	20.50	1.205	0.08	0.042	0.051
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 5	-	DSI 3 / Full	656000	3840	19.69	20.50	1.205	0.12	0.931	1.122
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 5	-	DSI 3 / Full	656000	3840	19.66	20.50	1.213	0.05	0.925	1.122
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 5	-	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	0.06	0.019	0.023
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 5	-	DSI 3 (Sim)	656000	3840	16.65	17.50	1.216	0.13	0.476	0.579
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 5	-	DSI 4	656000	3840	19.74	20.50	1.191	0.06	0.008	0.010
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 5	-	DSI 4	656000	3840	19.74	20.50	1.191	0.12	0.327	0.390
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 5	-	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	0.03	0.021	0.025
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 5	-	DSI 3 (Sim)	656000	3840	16.64	17.50	1.219	0.15	0.489	0.596
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 5	-	DSI 4	656000	3840	19.69	20.50	1.205	0.05	0.010	0.012
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 5	-	DSI 4	656000	3840	19.69	20.50	1.205	0.12	0.334	0.402
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 5	-	DSI 3 (Sim)	656000	3840	16.62	17.50	1.225	0.04	0.482	0.590
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3	633334	3500.01	10.89	12.00	1.291	-0.18	0.002	0.003
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3	633334	3500.01	10.89	12.00	1.291	-0.17	0.841	1.086
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 6	-	DSI 4	633334	3500.01	16.96	18.00	1.271	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 6	-	DSI 4	633334	3500.01	16.96	18.00	1.271	0.08	0.128	0.163
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3	633334	3500.01	10.86	12.00	1.300	0.09	0.001	0.001
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3	633334	3500.01	10.86	12.00	1.300	-0.13	0.894	1.162
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 6	-	DSI 4	633334	3500.01	16.94	18.00	1.276	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 6	-	DSI 4	633334	3500.01	16.94	18.00	1.276	-0.18	0.133	0.170
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	-	DSI 3	633334	3500.01	10.84	12.00	1.306	-0.09	0.852	1.113
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	-0.01	0.001	0.001
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	633334	3500.01	7.75	9.00	1.334	0.15	0.435	0.580
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	-0.12	0.001	0.001
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	633334	3500.01	7.72	9.00	1.343	-0.13	0.453	0.608
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3	656000	3840	10.91	12.00	1.285	0.19	0.006	0.008
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3	656000	3840	10.91	12.00	1.285	0.08	0.624	0.802
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 6	-	DSI 4	656000	3840	16.98	18.00	1.265	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 6	-	DSI 4	656000	3840	16.98	18.00	1.265	-0.17	0.076	0.096
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3	656000	3840	10.86	12.00	1.300	0.09	0.004	0.005
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3	656000	3840	10.86	12.00	1.300	0.14	0.363	0.472
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 6	-	DSI 4	656000	3840	16.96	18.00	1.271	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 6	-	DSI 4	656000	3840	16.96	18.00	1.271	0.16	0.061	0.078
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	-	DSI 3	656000	3840	10.84	12.00	1.306	0.06	0.372	0.486
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 6	-	DSI 3 (Sim)	656000	3840	7.96	9.00	1.271	0.02	0.003	0.004
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	656000	3840	7.96	9.00	1.271	0.09	0.326	0.414
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 6	-	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	-0.14	0.002	0.002
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	656000	3840	7.94	9.00	1.276	0.07	0.182	0.232
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 6	-	DSI 3 (Sim)	656000	3840	7.91	9.00	1.285	0.03	0.188	0.242
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3 / Full	633334	3500.01	17.13	18.00	1.222	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3 / Full	633334	3500.01	17.13	18.00	1.222	-0.18	0.401	0.490
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3 / Full	633334	3500.01	17.09	18.00	1.233	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3 / Full	633334	3500.01	17.09	18.00	1.233	0.02	0.416	0.513
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3 (Sim)	633334	3500.01	15.03	16.00	1.250	-0.16	0.257	0.321
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 10	-	DSI 4	633334	3500.01	17.13	18.00	1.222	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 10	-	DSI 4	633334	3500.01	17.13	18.00	1.222	0.02	0.152	0.186
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3 (Sim)	633334	3500.01	15.00	16.00	1.259	0.04	0.263	0.331
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 10	-	DSI 4	633334	3500.01	17.09	18.00	1.233	-	n/a	n/a

	FR1 N77	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 10	-	DSI 4	633334	3500.01	17.09	18.00	1.233	0.07	0.154	0.190
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3 / Full	656000	3840	17.16	18.00	1.213	-0.06	0.014	0.017
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3 / Full	656000	3840	17.16	18.00	1.213	-0.02	0.725	0.880
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3 / Full	656000	3840	17.14	18.00	1.219	-0.11	0.012	0.015
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3 / Full	656000	3840	17.14	18.00	1.219	0.01	0.694	0.846
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 10	-	DSI 3 / Full	656000	3840	17.10	18.00	1.230	-0.07	0.701	0.862
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	5mm	Ant 10	-	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	-0.1	0.009	0.011
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	5mm	Ant 10	-	DSI 3 (Sim)	656000	3840	15.04	16.00	1.247	-0.13	0.473	0.590
	FR1 N77	100M	BPSK	1	1	DFT-30	Front	21mm	Ant 10	-	DSI 4	656000	3840	17.16	18.00	1.213	-	n/a	n/a
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	27mm	Ant 10	-	DSI 4	656000	3840	17.16	18.00	1.213	0.06	0.227	0.275
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	5mm	Ant 10	-	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	-0.1	0.008	0.010
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 10	-	DSI 3 (Sim)	656000	3840	15.02	16.00	1.253	-0.17	0.451	0.565
	FR1 N77	100M	BPSK	135	69	DFT-30	Front	21mm	Ant 10	-	DSI 4	656000	3840	17.14	18.00	1.219	-	n/a	n/a
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	27mm	Ant 10	-	DSI 4	656000	3840	17.14	18.00	1.219	0.08	0.224	0.273
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	5mm	Ant 10	-	DSI 3 (Sim)	656000	3840	15.00	16.00	1.259	0.03	0.454	0.572

<WLAN2.4G SAR>

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)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Standalone	1	2412	19.50	21.00	1.413	99.29	1.007	0.12	0.575	0.818
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Standalone	6	2437	19.10	21.00	1.549	99.29	1.007	0.05	0.536	0.836
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Standalone	11	2462	19.40	21.00	1.445	99.29	1.007	0.08	0.622	0.905
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	1	2412	19.50	21.00	1.413	99.29	1.007	-0.1	0.606	0.862
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	6	2437	19.10	21.00	1.549	99.29	1.007	0.07	0.619	0.965
91	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Standalone	11	2462	19.40	21.00	1.445	99.29	1.007	0.15	0.737	**1.073**
	WLAN2.4GHz	802.11b 1Mbps	Front	21mm	Ant 3	Full	1	2412	21.00	22.50	1.413	99.29	1.007	-0.12	0.075	0.107
	WLAN2.4GHz	802.11b 1Mbps	Back	27mm	Ant 3	Full	1	2412	21.00	22.50	1.413	99.29	1.007	-0.07	0.064	0.091
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Simultaneous	1	2412	18.30	19.50	1.318	99.29	1.007	-0.02	0.388	0.515
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	1	2412	18.30	19.50	1.318	99.29	1.007	-0.16	0.428	0.568
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	6	2437	17.80	19.50	1.479	99.29	1.007	0.15	0.451	0.672
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Simultaneous	11	2462	18.30	19.50	1.318	99.29	1.007	0.11	0.563	0.747

<WLAN5G SAR>

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)
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Standalone	58	5290	9.20	11.00	1.514	91.95	1.088	-0.06	0.010	0.016
92	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	58	5290	9.20	11.00	1.514	91.95	1.088	0.02	0.693	**1.141**
	WLAN5.3GHz	802.11a 6Mbps	Front	21mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	-0.14	0.157	0.184
	WLAN5.3GHz	802.11a 6Mbps	Back	27mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	0.05	0.971	1.139
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	42	5210	8.37	10.00	1.455	91.95	1.088	-0.11	0.005	0.008
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	42	5210	8.37	10.00	1.455	91.95	1.088	0.14	0.460	0.728
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	21mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	-	n/a	n/a
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	27mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	-0.15	0.227	0.380
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Standalone	106	5530	9.48	11.00	1.419	91.95	1.088	0.16	0.013	0.020
93	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	106	5530	9.48	11.00	1.419	91.95	1.088	-0.14	0.700	**1.081**
	WLAN5.5GHz	802.11a 6Mbps	Front	21mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	-0.14	0.121	0.157
	WLAN5.5GHz	802.11a 6Mbps	Back	27mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.05	0.830	1.077
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	106	5530	6.42	8.00	1.439	91.95	1.088	0.17	0.006	0.009
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	106	5530	6.42	8.00	1.439	91.95	1.088	0.11	0.461	0.722
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	21mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	-	n/a	n/a
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	27mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	-0.08	0.224	0.347
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Standalone	155	5775	10.68	12.50	1.521	91.95	1.088	0.17	0.021	0.035
94	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Standalone	155	5775	10.68	12.50	1.521	91.95	1.088	-0.18	0.722	**1.194**
	WLAN5.8GHz	802.11a 6Mbps	Front	21mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	-	n/a	n/a
	WLAN5.8GHz	802.11a 6Mbps	Back	27mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	0.09	0.640	0.974
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5	Simultaneous	155	5775	9.21	11.00	1.510	91.95	1.088	-0.19	0.015	0.025
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5	Simultaneous	155	5775	9.21	11.00	1.510	91.95	1.088	0.16	0.444	0.729
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	21mm	Ant 5	Simultaneous	155	5775	14.91	16.50	1.442	91.95	1.088	-	n/a	n/a
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	27mm	Ant 5	Simultaneous	155	5775	14.91	16.50	1.442	91.95	1.088	0.07	0.159	0.249

<Bluetooth SAR>

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)
	Bluetooth	DH5 1Mbps	Front	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	0.05	0.088	0.134
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Full	0	2402	11.80	12.50	1.175	76.9	1.300	-0.14	0.092	0.140
	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Full	39	2441	10.60	12.50	1.549	76.9	1.300	0.01	0.075	0.150
95	Bluetooth	DH5 1Mbps	Back	5mm	Ant 3	Full	78	2480	10.60	12.50	1.549	76.9	1.300	-0.17	0.098	**0.197**

16.4 Product specific 10g SAR

<GSM SAR>

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	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
96	GSM850	GPRS 4 Tx slots	Back	0mm	Ant 1	DSI 6 / Full	128	824.2	28.37	30.00	1.455	0.1	1.250	**1.819**
	GSM850	GPRS 4 Tx slots	Back	0mm	Ant 1	DSI 6 / Full	189	836.4	28.12	30.00	1.542	0.03	0.948	1.462
	GSM850	GPRS 4 Tx slots	Back	0mm	Ant 1	DSI 6 / Full	251	848.8	28.22	30.00	1.507	0.11	0.114	0.172
	GSM1900	GPRS 3 Tx slots	Front	0mm	Ant 1	DSI 6	810	1909.8	24.96	26.00	1.271	-0.11	1.600	2.033
	GSM1900	GPRS 3 Tx slots	Front	0mm	Ant 1	DSI 6	512	1850.2	24.80	26.00	1.318	0.18	1.300	1.714
	GSM1900	GPRS 3 Tx slots	Front	0mm	Ant 1	DSI 6	661	1880	24.52	26.00	1.406	0.02	1.410	1.983
	GSM1900	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	810	1909.8	24.96	26.00	1.271	0.05	2.270	2.884
	GSM1900	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	512	1850.2	24.80	26.00	1.318	-0.12	2.070	2.729
	GSM1900	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	661	1880	24.52	26.00	1.406	-0.19	2.030	2.854
97	GSM1900	GPRS 3 Tx slots	Bottom Side	0mm	Ant 1	DSI 6	810	1909.8	24.96	26.00	1.271	0.11	2.480	**3.151**
	GSM1900	GPRS 3 Tx slots	Bottom Side	0mm	Ant 1	DSI 6	512	1850.2	24.80	26.00	1.318	0.11	2.310	3.045
	GSM1900	GPRS 3 Tx slots	Bottom Side	0mm	Ant 1	DSI 6	661	1880	24.52	26.00	1.406	-0.03	2.080	2.925
	GSM1900	GPRS 3 Tx slots	Front	4mm	Ant 1	DSI 4	810	1909.8	27.28	28.00	1.180	-0.11	1.480	1.747
	GSM1900	GPRS 3 Tx slots	Back	7mm	Ant 1	DSI 4	810	1909.8	27.28	28.00	1.180	0.05	1.340	1.582
	GSM1900	GPRS 3 Tx slots	Bottom Side	12mm	Ant 1	DSI 4	810	1909.8	27.28	28.00	1.180	0.11	1.080	1.275

<WCDMA SAR>

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	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6 / Full	4132	826.4	23.26	24.00	1.186	0.02	1.330	1.577
98	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6 / Full	4182	836.4	23.13	24.00	1.222	0.11	1.460	**1.784**
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6 / Full	4233	846.6	23.05	24.00	1.245	0.08	1.390	1.730
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1513	1752.6	21.69	22.50	1.205	0.04	2.070	2.494
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1312	1712.4	21.63	22.50	1.222	0.13	2.370	2.896
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	21.44	22.50	1.276	0.18	1.940	2.476
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	21.69	22.50	1.205	-0.12	2.400	2.892
99	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	21.63	22.50	1.222	0.17	2.580	**3.152**
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	21.44	22.50	1.276	-0.19	2.260	2.885
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1513	1752.6	21.69	22.50	1.205	0.17	2.420	2.916
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1312	1712.4	21.63	22.50	1.222	0.17	2.390	2.920
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	1413	1732.6	21.44	22.50	1.276	0.13	2.270	2.898
	WCDMA IV	RMC 12.2Kbps	Front	4mm	Ant 1	DSI 4	1312	1712.4	23.24	24.00	1.191	0.13	1.890	2.251
	WCDMA IV	RMC 12.2Kbps	Back	7mm	Ant 1	DSI 4	1312	1712.4	23.24	24.00	1.191	0.17	1.440	1.715
	WCDMA IV	RMC 12.2Kbps	Bottom Side	12mm	Ant 1	DSI 4	1312	1712.4	23.24	24.00	1.191	0.17	1.070	1.275
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9262	1852.4	20.83	21.50	1.167	-0.15	2.000	2.334
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	20.71	21.50	1.199	0.15	2.090	2.507
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9538	1907.6	20.80	21.50	1.175	-0.04	2.190	2.573
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	20.83	21.50	1.167	0.1	2.400	2.800
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	20.71	21.50	1.199	-0.18	2.310	2.771
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9538	1907.6	20.80	21.50	1.175	-0.11	2.420	2.843
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9262	1852.4	20.83	21.50	1.167	-0.07	2.610	3.045
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9400	1880	20.71	21.50	1.199	0.13	2.560	3.071
100	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9538	1907.6	20.80	21.50	1.175	0.16	2.670	**3.137**
	WCDMA II	RMC 12.2Kbps	Front	4mm	Ant 1	DSI 4	9538	1907.6	23.35	24.00	1.161	-0.04	2.120	2.462
	WCDMA II	RMC 12.2Kbps	Back	7mm	Ant 1	DSI 4	9538	1907.6	23.35	24.00	1.161	-0.11	1.880	2.184
	WCDMA II	RMC 12.2Kbps	Bottom Side	12mm	Ant 1	DSI 4	9538	1907.6	23.35	24.00	1.161	0.16	1.520	1.765

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	DSI 6 / Full	26865	831.5	23.18	24.00	1.208	0.19	1.710	2.065
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	DSI 6 / Full	26765	821.5	23.15	24.00	1.216	0.18	1.670	2.031
101	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	DSI 6 / Full	26965	841.5	22.90	24.00	1.288	0.14	1.840	**2.370**
	LTE Band 5B	10M	QPSK	1	49	Back	0mm	Ant 1	DSI 6 / Full	20575 +20476	841.5 +831.6	22.96	24.00	1.271	0.06	1.810	2.300
	LTE Band 26	15M	QPSK	36	0	Back	0mm	Ant 1	DSI 6 / Full	26865	831.5	22.17	23.00	1.211	-0.19	1.010	1.223
	LTE Band 26	15M	QPSK	75	0	Back	0mm	Ant 1	DSI 6 / Full	26865	831.5	22.09	23.00	1.233	0.08	1.050	1.295
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132072	1720	21.91	23.00	1.285	0.19	1.380	1.774
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	132072	1720	21.91	23.00	1.285	-0.01	2.180	2.802
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	132322	1745	21.89	23.00	1.291	-0.04	2.150	2.776
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	132572	1770	21.86	23.00	1.300	0.14	2.200	2.860
	LTE Band 66C	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	132572 +132374	1770 +1750.2	21.90	23.00	1.288	0.16	2.110	2.718
	LTE Band 66	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	132072	1720	23.16	24.00	1.213	-0.06	0.059	0.072
	LTE Band 66	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	132572	1770	22.85	24.00	1.303	-0.19	0.168	0.219
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6	132072	1720	21.89	23.00	1.291	-0.06	1.190	1.537
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6	132072	1720	21.89	23.00	1.291	0.07	1.890	2.440
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6	132322	1745	21.87	23.00	1.297	0.15	1.850	2.400
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6	132572	1770	21.84	23.00	1.306	-0.19	1.930	2.521
	LTE Band 66	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	132072	1720	22.22	23.00	1.197	-0.13	0.034	0.041
	LTE Band 66	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	132572	1770	21.92	23.00	1.282	0.01	0.111	0.142
	LTE Band 66	20M	QPSK	100	0	Left Side	0mm	Ant 2	DSI 6	132072	1720	21.87	23.00	1.297	0.08	1.930	2.504
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6 (Sim)	132072	1720	19.11	20.00	1.227	0.08	0.703	0.863
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	132072	1720	19.11	20.00	1.227	0.05	1.100	1.350
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	132322	1745	19.09	20.00	1.233	0.05	1.110	1.369
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	132572	1770	18.99	20.00	1.262	0.16	1.160	1.464
	LTE Band 66C	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	132572 +132374	1770 +1750.2	19.09	20.00	1.233	-0.05	1.050	1.295
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6 (Sim)	132072	1720	19.09	20.00	1.233	0.06	0.698	0.861
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	132072	1720	19.09	20.00	1.233	-0.01	1.080	1.332
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	132072	1720	21.52	22.50	1.253	0.11	1.310	1.642
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132072	1720	21.52	22.50	1.253	0.07	2.150	2.694
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132322	1745	21.49	22.50	1.262	0.18	2.290	2.890
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132572	1770	21.45	22.50	1.274	0.17	2.380	3.031
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	132072	1720	21.52	22.50	1.253	0.04	2.220	2.782
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	132322	1745	21.49	22.50	1.262	-0.05	2.440	3.079
102	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	132572	1770	21.45	22.50	1.274	0.19	2.480	**3.158**
	LTE Band 66C	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	132572 +132374	1770 +1750.2	21.50	22.50	1.259	0.15	2.350	2.958
	LTE Band 66	20M	QPSK	1	0	Front	4mm	Ant 1	DSI 4	132072	1720	23.16	24.00	1.213	-0.08	1.790	2.172
	LTE Band 66	20M	QPSK	1	0	Back	7mm	Ant 1	DSI 4	132572	1770	22.91	24.00	1.285	0.18	1.360	1.748
	LTE Band 66	20M	QPSK	1	0	Bottom Side	12mm	Ant 1	DSI 4	132572	1770	22.91	24.00	1.285	0.18	1.030	1.324
	LTE Band 66	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	132072	1720	21.50	22.50	1.259	-0.04	1.250	1.574
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	132072	1720	21.50	22.50	1.259	0.19	2.140	2.694
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	132322	1745	21.46	22.50	1.271	0.16	2.220	2.821
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	132572	1770	21.43	22.50	1.279	0.14	2.300	2.943
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Ant 1	DSI 6	132072	1720	21.50	22.50	1.259	0.11	2.200	2.770
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Ant 1	DSI 6	132322	1745	21.46	22.50	1.271	0.07	2.310	2.935
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Ant 1	DSI 6	132572	1770	21.43	22.50	1.279	0.01	2.320	2.968
	LTE Band 66	20M	QPSK	50	0	Front	4mm	Ant 1	DSI 4	132072	1720	22.35	24.00	1.462	0.19	1.110	1.623
	LTE Band 66	20M	QPSK	50	0	Back	7mm	Ant 1	DSI 4	132572	1770	22.10	24.00	1.549	-0.14	0.801	1.241
	LTE Band 66	20M	QPSK	50	0	Bottom Side	12mm	Ant 1	DSI 4	132572	1770	22.10	24.00	1.549	0.05	0.619	0.959
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Ant 1	DSI 6	132072	1720	21.48	22.50	1.265	0.08	2.110	2.669
	LTE Band 66	20M	QPSK	100	0	Bottom Side	0mm	Ant 1	DSI 6	132072	1720	21.48	22.50	1.265	0.11	2.150	2.719
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	26340	1880	22.51	23.50	1.256	-0.02	1.720	2.160

	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	26140	1860	22.39	23.50	1.291	0.03	1.850	2.389
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	26590	1905	22.45	23.50	1.274	0.11	1.740	2.216
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	26340	1880	22.51	23.50	1.256	-0.04	2.230	2.801
103	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	26140	1860	22.39	23.50	1.291	0.19	2.370	**3.060**
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6	26590	1905	22.45	23.50	1.274	0.1	2.240	2.853
	LTE Band 25	20M	QPSK	1	0	Back	10mm	Ant 2	DSI 4	26140	1860	22.97	24.00	1.268	-0.01	0.318	0.403
	LTE Band 25	20M	QPSK	1	0	Left Side	10mm	Ant 2	DSI 4	26140	1860	22.97	24.00	1.268	0.14	0.180	0.228
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6	26340	1880	21.89	22.50	1.151	-0.01	1.580	1.818
	LTE Band 25	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6	26340	1880	21.89	22.50	1.151	-0.15	2.000	2.302
	LTE Band 25	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6	26140	1860	21.84	22.50	1.164	-0.03	2.080	2.421
	LTE Band 25	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6	26590	1905	21.80	22.50	1.175	0.19	1.950	2.291
	LTE Band 25	20M	QPSK	50	0	Back	10mm	Ant 2	DSI 4	26340	1880	22.31	23.00	1.172	0.05	0.223	0.261
	LTE Band 25	20M	QPSK	50	0	Left Side	10mm	Ant 2	DSI 4	26140	1860	22.25	23.00	1.189	0.02	0.110	0.131
	LTE Band 25	20M	QPSK	100	0	Back	0mm	Ant 2	DSI 6	26340	1880	21.86	22.50	1.159	-0.05	1.550	1.796
	LTE Band 25	20M	QPSK	100	0	Left Side	0mm	Ant 2	DSI 6	26340	1880	21.86	22.50	1.159	0.03	1.990	2.306
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6 (Sim)	26340	1880	19.60	20.50	1.230	0.11	0.849	1.044
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	26340	1880	19.60	20.50	1.230	-0.1	1.160	1.427
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	26140	1860	19.55	20.50	1.245	0.1	1.180	1.469
	LTE Band 25	20M	QPSK	1	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	26590	1905	19.51	20.50	1.256	-0.09	1.130	1.419
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6 (Sim)	26340	1880	19.58	20.50	1.236	-0.07	0.836	1.033
	LTE Band 25	20M	QPSK	50	0	Left Side	0mm	Ant 2	DSI 6 (Sim)	26340	1880	19.58	20.50	1.236	0.04	1.110	1.372
	LTE Band 25	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	26340	1880	19.99	21.00	1.262	-0.18	1.380	1.741
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	26340	1880	19.99	21.00	1.262	-0.17	1.940	2.448
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	26140	1860	19.91	21.00	1.285	0.18	2.090	2.686
	LTE Band 25	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	26590	1905	19.85	21.00	1.303	-0.03	1.890	2.463
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	26340	1880	19.99	21.00	1.262	0.1	1.980	2.498
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	26140	1860	19.91	21.00	1.285	-0.16	2.100	2.699
	LTE Band 25	20M	QPSK	1	0	Bottom Side	0mm	Ant 1	DSI 6	26590	1905	19.85	21.00	1.303	0.16	1.830	2.385
	LTE Band 25	20M	QPSK	1	0	Front	4mm	Ant 1	DSI 4	26340	1880	23.15	24.00	1.216	-0.12	1.810	2.201
	LTE Band 25	20M	QPSK	1	0	Back	7mm	Ant 1	DSI 4	26140	1860	22.96	24.00	1.271	-0.16	1.300	1.652
	LTE Band 25	20M	QPSK	1	0	Bottom Side	12mm	Ant 1	DSI 4	26140	1860	22.96	24.00	1.271	0.15	0.987	1.254
	LTE Band 25	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	26340	1880	19.97	21.00	1.268	0.02	1.300	1.648
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	26340	1880	19.97	21.00	1.268	-0.19	1.900	2.409
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	26140	1860	19.88	21.00	1.294	-0.19	1.990	2.575
	LTE Band 25	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	26590	1905	19.83	21.00	1.309	0.19	1.840	2.409
	LTE Band 25	20M	QPSK	50	0	Bottom Side	0mm	Ant 1	DSI 6	26340	1880	19.97	21.00	1.268	-0.14	1.930	2.447
	LTE Band 25	20M	QPSK	50	0	Bottom Side	0mm	Ant 1	DSI 6	26140	1860	19.88	21.00	1.294	0.11	2.040	2.640
	LTE Band 25	20M	QPSK	50	0	Bottom Side	0mm	Ant 1	DSI 6	26590	1905	19.83	21.00	1.309	-0.06	1.880	2.461
	LTE Band 25	20M	QPSK	50	0	Front	4mm	Ant 1	DSI 4	26340	1880	22.32	23.00	1.169	-0.19	1.080	1.263
	LTE Band 25	20M	QPSK	50	0	Back	7mm	Ant 1	DSI 4	26140	1860	22.27	23.00	1.183	0.19	0.883	1.045
	LTE Band 25	20M	QPSK	50	0	Bottom Side	12mm	Ant 1	DSI 4	26140	1860	22.27	23.00	1.183	-0.05	0.664	0.786
	LTE Band 25	20M	QPSK	100	0	Back	0mm	Ant 1	DSI 6	26340	1880	19.95	21.00	1.274	0.05	1.880	2.394
	LTE Band 25	20M	QPSK	100	0	Bottom Side	0mm	Ant 1	DSI 6	26340	1880	19.95	21.00	1.274	0.11	1.900	2.420
	LTE Band 30	10M	QPSK	1	25	Front	0mm	Ant 8	DSI 6	27710	2310	19.35	20.50	1.303	-0.16	0.786	1.024
	LTE Band 30	10M	QPSK	1	25	Back	0mm	Ant 8	DSI 6	27710	2310	19.35	20.50	1.303	-0.09	1.490	1.942
	LTE Band 30	10M	QPSK	1	25	Top Side	0mm	Ant 8	DSI 6	27710	2310	19.35	20.50	1.303	0.06	1.890	2.463
	LTE Band 30	10M	QPSK	1	25	Front	7mm	Ant 8	DSI 4	27710	2310	22.86	24.00	1.300	0.18	0.467	0.607
	LTE Band 30	10M	QPSK	1	25	Back	10mm	Ant 8	DSI 4	27710	2310	22.86	24.00	1.300	0.14	0.548	0.712
	LTE Band 30	10M	QPSK	1	25	Top Side	12mm	Ant 8	DSI 4	27710	2310	22.86	24.00	1.300	0.1	0.597	0.776
	LTE Band 30	10M	QPSK	25	0	Front	0mm	Ant 8	DSI 6	27710	2310	19.33	20.50	1.309	0.04	0.780	1.021
	LTE Band 30	10M	QPSK	25	0	Back	0mm	Ant 8	DSI 6	27710	2310	19.33	20.50	1.309	-0.06	1.470	1.924
	LTE Band 30	10M	QPSK	25	0	Top Side	0mm	Ant 8	DSI 6	27710	2310	19.33	20.50	1.309	-0.05	1.840	2.409
	LTE Band 30	10M	QPSK	25	0	Front	7mm	Ant 8	DSI 4	27710	2310	21.84	23.00	1.306	0.14	0.320	0.418
	LTE Band 30	10M	QPSK	25	0	Back	10mm	Ant 8	DSI 4	27710	2310	21.84	23.00	1.306	0.14	0.383	0.500
	LTE Band 30	10M	QPSK	25	0	Top Side	12mm	Ant 8	DSI 4	27710	2310	21.84	23.00	1.306	0.07	0.415	0.542
	LTE Band 30	10M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	27710	2310	19.30	20.50	1.318	-0.07	1.850	2.439

	LTE Band 30	10M	QPSK	1	25	Front	0mm	Ant 8	DSI 6 (Sim)	27710	2310	16.31	17.50	1.315	-0.03	0.419	0.551
	LTE Band 30	10M	QPSK	1	25	Back	0mm	Ant 8	DSI 6 (Sim)	27710	2310	16.31	17.50	1.315	-0.11	0.831	1.093
	LTE Band 30	10M	QPSK	1	25	Top Side	0mm	Ant 8	DSI 6 (Sim)	27710	2310	16.31	17.50	1.315	-0.06	0.957	1.259
	LTE Band 30	10M	QPSK	25	0	Front	0mm	Ant 8	DSI 6 (Sim)	27710	2310	16.30	17.50	1.318	-0.08	0.415	0.547
	LTE Band 30	10M	QPSK	25	0	Back	0mm	Ant 8	DSI 6 (Sim)	27710	2310	16.30	17.50	1.318	0.18	0.819	1.080
	LTE Band 30	10M	QPSK	25	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	27710	2310	16.30	17.50	1.318	0.05	0.941	1.240
104	LTE Band 30	10M	QPSK	1	25	Back	0mm	Ant 7	DSI 6 / Full	27710	2310	23.10	24.00	1.230	-0.16	2.170	**2.670**
	LTE Band 30	10M	QPSK	1	25	Bottom Side	0mm	Ant 7	DSI 6 / Full	27710	2310	23.10	24.00	1.230	-0.18	1.710	2.104
	LTE Band 30	10M	QPSK	25	0	Back	0mm	Ant 7	DSI 6 / Full	27710	2310	22.13	23.00	1.222	-0.09	2.070	2.529
	LTE Band 30	10M	QPSK	25	0	Bottom Side	0mm	Ant 7	DSI 6 / Full	27710	2310	22.13	23.00	1.222	0.05	1.640	2.004
	LTE Band 30	10M	QPSK	50	0	Back	0mm	Ant 7	DSI 6 / Full	27710	2310	22.05	23.00	1.245	0.08	2.100	2.613
	LTE Band 30	10M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6 / Full	27710	2310	22.05	23.00	1.245	0.13	1.650	2.053
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 7	DSI 6	21100	2535	22.60	23.50	1.230	0.15	1.700	2.091
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 7	DSI 6	20850	2510	22.55	23.50	1.245	-0.01	1.760	2.190
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 7	DSI 6	21350	2560	22.59	23.50	1.233	0.02	1.710	2.109
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	21100	2535	22.60	23.50	1.230	-0.04	2.360	2.903
105	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	20850	2510	22.55	23.50	1.245	0.17	2.400	**2.987**
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	21350	2560	22.59	23.50	1.233	-0.09	2.350	2.898
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 7	DSI 6	21100	2535	22.60	23.50	1.230	-0.19	1.450	1.784
	LTE Band 7	20M	QPSK	1	0	Front	4mm	Ant 7	DSI 4	20850	2510	22.96	24.00	1.271	0.02	0.744	0.945
	LTE Band 7	20M	QPSK	1	0	Back	7mm	Ant 7	DSI 4	20850	2510	22.96	24.00	1.271	-0.19	0.524	0.666
	LTE Band 7	20M	QPSK	1	0	Bottom Side	12mm	Ant 7	DSI 4	21100	2535	23.18	24.00	1.208	0.09	0.408	0.493
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	21100	2535	22.10	23.00	1.230	0.18	1.720	2.116
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	20850	2510	22.06	23.00	1.242	-0.13	1.750	2.173
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	21350	2560	22.01	23.00	1.256	-0.12	1.700	2.135
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	21100	2535	22.10	23.00	1.230	0.13	2.330	2.867
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	20850	2510	22.06	23.00	1.242	-0.08	2.350	2.918
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	21350	2560	22.01	23.00	1.256	-0.08	2.300	2.889
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6	21100	2535	22.10	23.00	1.230	0.01	1.470	1.808
	LTE Band 7	20M	QPSK	50	0	Front	4mm	Ant 7	DSI 4	20850	2510	22.07	23.00	1.239	-0.19	0.567	0.702
	LTE Band 7	20M	QPSK	50	0	Back	7mm	Ant 7	DSI 4	20850	2510	22.07	23.00	1.239	-0.13	0.399	0.494
	LTE Band 7	20M	QPSK	50	0	Bottom Side	12mm	Ant 7	DSI 4	21100	2535	22.14	23.00	1.219	0.01	0.309	0.377
	LTE Band 7	20M	QPSK	100	0	Front	0mm	Ant 7	DSI 6	21100	2535	22.09	23.00	1.233	0.08	1.670	2.059
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 7	DSI 6	21100	2535	22.09	23.00	1.233	0.15	2.280	2.811

<TDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	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)
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	40185	2549.5	22.20	22.90	1.175	62.9	1.006	0.14	1.490	1.761
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	39750	2506	22.03	22.90	1.222	62.9	1.006	0.04	1.520	1.868
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	40620	2593	22.05	22.90	1.216	62.9	1.006	0.18	1.800	2.202
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	41055	2636.5	21.93	22.90	1.250	62.9	1.006	-0.13	1.570	1.975
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	41490	2680	22.18	22.90	1.180	62.9	1.006	-0.08	1.350	1.603
	LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	40185	2549.5	22.20	22.90	1.175	62.9	1.006	0.16	1.880	2.222
	LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	39750	2506	22.03	22.90	1.222	62.9	1.006	-0.13	1.900	2.335
	LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	40620	2593	22.05	22.90	1.216	62.9	1.006	0.04	2.140	2.618
	LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	41055	2636.5	21.93	22.90	1.250	62.9	1.006	0.18	1.810	2.277
	LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	41490	2680	22.18	22.90	1.180	62.9	1.006	-0.11	1.780	2.114
	LTE Band 41C	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	40620 +40818	2593 +2612.8	22.17	22.90	1.183	62.9	1.006	0.06	1.990	2.368
	LTE Band 41	20M	QPSK	1	99	Back	10mm	Ant 8	DSI 4	40620	2593	22.86	24.00	1.300	62.9	1.006	-0.08	0.328	0.429
	LTE Band 41	20M	QPSK	1	99	Top Side	12mm	Ant 8	DSI 4	40620	2593	22.86	24.00	1.300	62.9	1.006	0.18	0.417	0.545
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	40185	2549.5	22.17	22.90	1.183	62.9	1.006	0.18	1.450	1.726
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	39750	2506	22.00	22.90	1.230	62.9	1.006	0.15	1.470	1.819
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	40620	2593	22.03	22.90	1.222	62.9	1.006	-0.13	1.750	2.151
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	41055	2636.5	21.90	22.90	1.259	62.9	1.006	0.02	1.530	1.938
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	41490	2680	22.15	22.90	1.189	62.9	1.006	0.16	1.330	1.590
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	40185	2549.5	22.17	22.90	1.183	62.9	1.006	-0.1	1.850	2.202
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	39750	2506	22.00	22.90	1.230	62.9	1.006	0.12	1.910	2.364
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	40620	2593	22.03	22.90	1.222	62.9	1.006	-0.17	2.100	2.581
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	41055	2636.5	21.90	22.90	1.259	62.9	1.006	-0.12	1.830	2.318
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	41490	2680	22.15	22.90	1.189	62.9	1.006	-0.05	1.800	2.152
	LTE Band 41	20M	QPSK	50	0	Back	10mm	Ant 8	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.18	0.248	0.316
	LTE Band 41	20M	QPSK	50	0	Top Side	12mm	Ant 8	DSI 4	40620	2593	21.98	23.00	1.265	62.9	1.006	0.19	0.315	0.401
	LTE Band 41	20M	QPSK	100	0	Back	0mm	Ant 8	DSI 6	40185	2549.5	22.15	22.90	1.189	62.9	1.006	0.05	1.420	1.698
	LTE Band 41	20M	QPSK	100	0	Top Side	0mm	Ant 8	DSI 6	40185	2549.5	22.15	22.90	1.189	62.9	1.006	0.13	1.810	2.164
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	19.17	19.90	1.183	62.9	1.006	-0.02	0.930	1.107
	LTE Band 41	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	19.17	19.90	1.183	62.9	1.006	-0.02	1.080	1.285
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	19.13	19.90	1.194	62.9	1.006	0.14	0.924	1.110
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	19.13	19.90	1.194	62.9	1.006	-0.09	1.100	1.321
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	39750	2506	18.93	19.90	1.250	62.9	1.006	0.14	0.944	1.187
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	40620	2593	19.00	19.90	1.230	62.9	1.006	0.12	1.120	1.386
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	41055	2636.5	18.88	19.90	1.265	62.9	1.006	-0.17	1.070	1.361
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	41490	2680	19.08	19.90	1.208	62.9	1.006	-0.06	0.947	1.151
	LTE Band 41C	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6 (Sim)	40620 +40818	2593 +2612.8	19.14	19.90	1.191	62.9	1.006	0.02	0.977	1.171
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6 / Full	40185	2549.5	23.14	24.00	1.219	62.9	1.006	-0.06	2.000	2.453
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6 / Full	39750	2506	22.81	24.00	1.315	62.9	1.006	-0.14	1.990	2.633
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6 / Full	40620	2593	22.70	24.00	1.349	62.9	1.006	-0.17	2.050	2.782
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6 / Full	41055	2636.5	22.78	24.00	1.324	62.9	1.006	0.15	2.180	2.904
	LTE Band 41	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6 / Full	41490	2680	23.10	24.00	1.230	62.9	1.006	0.08	2.100	2.599
	LTE Band 41	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6 / Full	40185	2549.5	23.14	24.00	1.219	62.9	1.006	0.01	1.240	1.521
	LTE Band 41	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6 / Full	39750	2506	22.81	24.00	1.315	62.9	1.006	0.15	1.240	1.641
	LTE Band 41	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6 / Full	40620	2593	22.70	24.00	1.349	62.9	1.006	0.06	1.380	1.873
	LTE Band 41	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6 / Full	41055	2636.5	22.78	24.00	1.324	62.9	1.006	-0.08	1.420	1.892
	LTE Band 41	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6 / Full	41490	2680	23.10	24.00	1.230	62.9	1.006	-0.14	1.400	1.733
	LTE Band 41C	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6 / Full	41055 +41253	2636.5 +2656.3	23.10	24.00	1.230	62.9	1.006	0.11	2.070	2.562
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6 / Full	40185	2549.5	22.17	23.00	1.211	62.9	1.006	-0.04	1.660	2.022
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6 / Full	39750	2506	22.12	23.00	1.225	62.9	1.006	-0.12	1.670	2.057
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6 / Full	40620	2593	21.94	23.00	1.276	62.9	1.006	0.06	1.790	2.299
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6 / Full	41055	2636.5	21.93	23.00	1.279	62.9	1.006	0.1	1.650	2.124

	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6 / Full	41490	2680	22.05	23.00	1.245	62.9	1.006	0.11	1.660	2.078
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6 / Full	40185	2549.5	22.17	23.00	1.211	62.9	1.006	-0.13	0.987	1.202
	LTE Band 41	20M	QPSK	100	0	Back	0mm	Ant 7	DSI 6 / Full	40185	2549.5	21.86	23.00	1.300	62.9	1.006	-0.06	1.690	2.210
	LTE Band 41	20M	QPSK	100	0	Bottom Side	0mm	Ant 7	DSI 6 / Full	40185	2549.5	21.86	23.00	1.300	62.9	1.006	0.12	0.975	1.275
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 8	DSI 6	40185	2549.5	23.63	24.50	1.222	42.9	1.009	0.1	1.010	1.245
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	40185	2549.5	23.63	24.50	1.222	42.9	1.009	0.14	1.570	1.935
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	39750	2506	23.60	24.50	1.230	42.9	1.009	0.12	1.560	1.936
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	40620	2593	23.50	24.50	1.259	42.9	1.009	0.13	1.650	2.096
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	41055	2636.5	23.30	24.50	1.318	42.9	1.009	-0.1	1.490	1.982
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6	41490	2680	23.42	24.50	1.282	42.9	1.009	0.09	1.350	1.747
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	40185	2549.5	23.63	24.50	1.222	42.9	1.009	0.16	2.180	2.687
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	39750	2506	23.60	24.50	1.230	42.9	1.009	0.14	2.020	2.508
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	40620	2593	23.50	24.50	1.259	42.9	1.009	-0.09	2.210	2.807
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	41055	2636.5	23.30	24.50	1.318	42.9	1.009	0.02	1.920	2.554
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6	41490	2680	23.42	24.50	1.282	42.9	1.009	0.13	1.620	2.096
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	7mm	Ant 8	DSI 4	40185	2549.5	26.00	27.00	1.259	42.9	1.009	-0.14	0.333	0.423
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	10mm	Ant 8	DSI 4	40620	2593	25.95	27.00	1.274	42.9	1.009	0.05	0.419	0.538
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	12mm	Ant 8	DSI 4	40620	2593	25.95	27.00	1.274	42.9	1.009	-0.01	0.470	0.604
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 8	DSI 6	40185	2549.5	23.59	24.50	1.233	42.9	1.009	-0.09	0.988	1.229
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	40185	2549.5	23.59	24.50	1.233	42.9	1.009	-0.06	1.420	1.767
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	39750	2506	23.57	24.50	1.239	42.9	1.009	-0.01	1.400	1.750
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	40620	2593	23.48	24.50	1.265	42.9	1.009	-0.12	1.450	1.850
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	41055	2636.5	23.28	24.50	1.324	42.9	1.009	-0.13	1.340	1.791
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6	41490	2680	23.39	24.50	1.291	42.9	1.009	-0.09	1.260	1.642
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	40185	2549.5	23.59	24.50	1.233	42.9	1.009	0.03	1.950	2.426
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	39750	2506	23.57	24.50	1.239	42.9	1.009	0.02	1.800	2.250
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	40620	2593	23.48	24.50	1.265	42.9	1.009	-0.07	1.970	2.514
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	41055	2636.5	23.28	24.50	1.324	42.9	1.009	-0.01	1.700	2.272
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6	41490	2680	23.39	24.50	1.291	42.9	1.009	-0.02	1.600	2.085
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	7mm	Ant 8	DSI 4	40185	2549.5	25.27	26.00	1.183	42.9	1.009	0.14	0.281	0.335
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	10mm	Ant 8	DSI 4	40620	2593	24.97	26.00	1.268	42.9	1.009	0.05	0.351	0.449
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	12mm	Ant 8	DSI 4	40620	2593	24.97	26.00	1.268	42.9	1.009	0.02	0.390	0.499
	LTE Band 41(HPUE)	20M	QPSK	100	0	Back	0mm	Ant 8	DSI 6	40185	2549.5	23.57	24.50	1.239	42.9	1.009	0.08	0.975	1.219
	LTE Band 41(HPUE)	20M	QPSK	100	0	Top Side	0mm	Ant 8	DSI 6	40185	2549.5	23.57	24.50	1.239	42.9	1.009	0.11	1.450	1.812
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	20.71	21.50	1.199	42.9	1.009	-0.04	0.511	0.618
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	20.71	21.50	1.199	42.9	1.009	0.14	0.909	1.100
	LTE Band 41(HPUE)	20M	QPSK	1	99	Top Side	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	20.71	21.50	1.199	42.9	1.009	0.09	1.010	1.222
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	20.70	21.50	1.202	42.9	1.009	-0.01	0.515	0.625
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	20.70	21.50	1.202	42.9	1.009	-0.19	0.920	1.116
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	40185	2549.5	20.70	21.50	1.202	42.9	1.009	0.09	1.020	1.237
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	39750	2506	20.59	21.50	1.233	42.9	1.009	-0.02	0.980	1.219
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	40620	2593	20.63	21.50	1.222	42.9	1.009	0.13	1.100	1.356
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	41055	2636.5	20.46	21.50	1.271	42.9	1.009	0.08	1.040	1.333
	LTE Band 41(HPUE)	20M	QPSK	50	0	Top Side	0mm	Ant 8	DSI 6 (Sim)	41490	2680	20.58	21.50	1.236	42.9	1.009	-0.13	0.884	1.102
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 7	DSI 6	40185	2549.5	25.12	26.00	1.225	42.9	1.009	0.19	1.680	2.076
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 7	DSI 6	39750	2506	24.73	26.00	1.340	42.9	1.009	0.04	1.680	2.271
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 7	DSI 6	40620	2593	24.58	26.00	1.387	42.9	1.009	-0.18	1.700	2.379
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 7	DSI 6	41055	2636.5	24.66	26.00	1.361	42.9	1.009	0.09	1.740	2.390
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	0mm	Ant 7	DSI 6	41490	2680	24.68	26.00	1.355	42.9	1.009	-0.16	1.670	2.284
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6	40185	2549.5	25.12	26.00	1.225	42.9	1.009	0.11	1.900	2.348
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6	39750	2506	24.73	26.00	1.340	42.9	1.009	0.05	1.820	2.460
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6	40620	2593	24.58	26.00	1.387	42.9	1.009	-0.1	1.980	2.770
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6	41055	2636.5	24.66	26.00	1.361	42.9	1.009	-0.15	2.110	2.899
106	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	0mm	Ant 7	DSI 6	41490	2680	24.68	26.00	1.355	42.9	1.009	-0.04	2.200	**3.008**
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6	40185	2549.5	25.12	26.00	1.225	42.9	1.009	0.07	1.230	1.520
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6	39750	2506	24.73	26.00	1.340	42.9	1.009	0.13	1.200	1.622

	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6	40620	2593	24.58	26.00	1.387	42.9	1.009	0.07	1.330	1.861
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6	41055	2636.5	24.66	26.00	1.361	42.9	1.009	0.02	1.370	1.882
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	0mm	Ant 7	DSI 6	41490	2680	24.68	26.00	1.355	42.9	1.009	-0.02	1.310	1.791
	LTE Band 41(HPUE)	20M	QPSK	1	99	Front	4mm	Ant 7	DSI 4	41055	2636.5	25.73	27.00	1.340	42.9	1.009	-0.12	0.823	1.112
	LTE Band 41(HPUE)	20M	QPSK	1	99	Back	7mm	Ant 7	DSI 4	41490	2680	25.88	27.00	1.294	42.9	1.009	-0.16	0.640	0.836
	LTE Band 41(HPUE)	20M	QPSK	1	99	Bottom Side	12mm	Ant 7	DSI 4	41055	2636.5	25.73	27.00	1.340	42.9	1.009	0.15	0.423	0.572
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	40185	2549.5	25.10	26.00	1.230	42.9	1.009	-0.11	1.570	1.949
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	39750	2506	24.65	26.00	1.365	42.9	1.009	-0.17	1.560	2.148
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	40620	2593	24.52	26.00	1.406	42.9	1.009	0.13	1.580	2.242
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	41055	2636.5	24.64	26.00	1.368	42.9	1.009	-0.06	1.630	2.249
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	41490	2680	24.61	26.00	1.377	42.9	1.009	-0.1	1.600	2.223
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	40185	2549.5	25.10	26.00	1.230	42.9	1.009	-0.18	1.860	2.309
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	39750	2506	24.65	26.00	1.365	42.9	1.009	-0.06	1.800	2.478
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	40620	2593	24.52	26.00	1.406	42.9	1.009	-0.19	1.930	2.738
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	41055	2636.5	24.64	26.00	1.368	42.9	1.009	0.06	2.010	2.774
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	41490	2680	24.61	26.00	1.377	42.9	1.009	-0.19	2.110	2.932
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6	40185	2549.5	25.10	26.00	1.230	42.9	1.009	0.02	1.210	1.502
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6	39750	2506	24.65	26.00	1.365	42.9	1.009	0.06	1.150	1.583
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6	40620	2593	24.52	26.00	1.406	42.9	1.009	0.12	1.250	1.773
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6	41055	2636.5	24.64	26.00	1.368	42.9	1.009	-0.13	1.300	1.794
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	0mm	Ant 7	DSI 6	41490	2680	24.61	26.00	1.377	42.9	1.009	0.12	1.250	1.737
	LTE Band 41(HPUE)	20M	QPSK	50	0	Front	4mm	Ant 7	DSI 4	41055	2636.5	25.43	26.00	1.140	42.9	1.009	-0.19	0.702	0.808
	LTE Band 41(HPUE)	20M	QPSK	50	0	Back	7mm	Ant 7	DSI 4	41490	2680	25.58	26.00	1.102	42.9	1.009	0.19	0.535	0.595
	LTE Band 41(HPUE)	20M	QPSK	50	0	Bottom Side	12mm	Ant 7	DSI 4	41055	2636.5	25.43	26.00	1.140	42.9	1.009	-0.05	0.374	0.430
	LTE Band 41(HPUE)	20M	QPSK	100	0	Front	0mm	Ant 7	DSI 6	40185	2549.5	25.07	26.00	1.239	42.9	1.009	0.03	1.620	2.025
	LTE Band 41(HPUE)	20M	QPSK	100	0	Back	0mm	Ant 7	DSI 6	40185	2549.5	25.07	26.00	1.239	42.9	1.009	0.18	1.820	2.275
	LTE Band 41(HPUE)	20M	QPSK	100	0	Bottom Side	0mm	Ant 7	DSI 6	40185	2549.5	25.07	26.00	1.239	42.9	1.009	0.06	1.170	1.462
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6	55830	3609	20.51	21.00	1.119	62.9	1.006	0.09	1.980	2.230
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6	55340	3560	20.42	21.00	1.143	62.9	1.006	0.07	1.810	2.081
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6	56150	3641	20.41	21.00	1.146	62.9	1.006	-0.19	2.220	2.558
107	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6	56640	3690	20.46	21.00	1.132	62.9	1.006	-0.1	2.590	**2.951**
	LTE Band 48	20M	QPSK	1	99	Left Side	0mm	Ant 4	DSI 6	55830	3609	20.51	21.00	1.119	62.9	1.006	-0.15	0.797	0.898
	LTE Band 48C	20M	QPSK	1	0	Back	0mm	Ant 4	DSI 6	56640 +56442	3690 +3670.2	20.47	21.00	1.130	62.9	1.006	-0.15	2.380	2.705
	LTE Band 48	20M	QPSK	1	99	Back	12mm	Ant 4	DSI 4	56640	3690	23.34	24.00	1.164	62.9	1.006	0.18	0.318	0.372
	LTE Band 48	20M	QPSK	1	99	Left Side	10mm	Ant 4	DSI 4	55830	3609	23.56	24.00	1.107	62.9	1.006	0.14	0.286	0.318
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 4	DSI 6	55830	3609	20.49	21.00	1.125	62.9	1.006	-0.04	1.950	2.206
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 4	DSI 6	55340	3560	20.40	21.00	1.148	62.9	1.006	-0.19	1.800	2.079
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 4	DSI 6	56150	3641	20.38	21.00	1.153	62.9	1.006	0.04	2.200	2.553
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 4	DSI 6	56640	3690	20.45	21.00	1.135	62.9	1.006	-0.18	2.500	2.855
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 4	DSI 6	55830	3609	20.49	21.00	1.125	62.9	1.006	-0.16	0.788	0.892
	LTE Band 48	20M	QPSK	50	0	Back	12mm	Ant 4	DSI 4	56640	3690	21.18	23.00	1.521	62.9	1.006	0.1	0.171	0.262
	LTE Band 48	20M	QPSK	50	0	Left Side	10mm	Ant 4	DSI 4	55830	3609	21.31	23.00	1.476	62.9	1.006	0.14	0.164	0.243
	LTE Band 48	20M	QPSK	100	0	Back	0mm	Ant 4	DSI 6	55830	3609	20.47	21.00	1.130	62.9	1.006	0.09	1.910	2.171
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6 (Sim)	55830	3609	17.46	18.00	1.132	62.9	1.006	0.11	1.050	1.196
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6 (Sim)	55340	3560	17.43	18.00	1.140	62.9	1.006	0.14	0.985	1.130
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6 (Sim)	56150	3641	17.30	18.00	1.175	62.9	1.006	-0.19	1.140	1.347
	LTE Band 48	20M	QPSK	1	99	Back	0mm	Ant 4	DSI 6 (Sim)	56640	3690	17.22	18.00	1.197	62.9	1.006	-0.11	1.300	1.565
	LTE Band 48	20M	QPSK	1	99	Left Side	0mm	Ant 4	DSI 6 (Sim)	55830	3609	17.46	18.00	1.132	62.9	1.006	-0.11	0.417	0.475
	LTE Band 48C	20M	QPSK	1	0	Back	0mm	Ant 4	DSI 6 (Sim)	56640 +56442	3690 +3670.2	17.42	18.00	1.143	62.9	1.006	-0.03	1.160	1.334
	LTE Band 48	20M	QPSK	50	0	Back	0mm	Ant 4	DSI 6 (Sim)	55830	3609	17.44	18.00	1.138	62.9	1.006	0.1	1.030	1.179
	LTE Band 48	20M	QPSK	50	0	Left Side	0mm	Ant 4	DSI 6 (Sim)	55830	3609	17.44	18.00	1.138	62.9	1.006	-0.04	0.414	0.474

<5GNR NSA 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	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI 6	340500	1702.5	22.15	23.00	1.216	0.1	1.880	2.286
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	340500	1702.5	22.15	23.00	1.216	-0.12	2.540	3.089
108	FR1 N70	15M	BPSK	1	1	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	340500	1702.5	22.15	23.00	1.216	0.15	2.560	**3.113**
	FR1 N70	15M	BPSK	1	1	DFT-15	Front	4mm	Ant 1	DSI 4	340500	1702.5	23.28	24.00	1.180	0.14	1.270	1.499
	FR1 N70	15M	BPSK	1	1	DFT-15	Back	7mm	Ant 1	DSI 4	340500	1702.5	23.28	24.00	1.180	0.07	0.917	1.082
	FR1 N70	15M	BPSK	1	1	DFT-15	Bottom Side	12mm	Ant 1	DSI 4	340500	1702.5	23.28	24.00	1.180	0.02	0.689	0.813
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	0mm	Ant 1	DSI 6	340500	1702.5	22.14	23.00	1.219	0.01	1.810	2.206
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	0mm	Ant 1	DSI 6	340500	1702.5	22.14	23.00	1.219	0.09	2.490	3.035
	FR1 N70	15M	BPSK	36	22	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	340500	1702.5	22.14	23.00	1.219	0.14	2.520	3.072
	FR1 N70	15M	BPSK	36	22	DFT-15	Front	4mm	Ant 1	DSI 4	340500	1702.5	23.24	24.00	1.191	-0.19	1.330	1.584
	FR1 N70	15M	BPSK	36	22	DFT-15	Back	7mm	Ant 1	DSI 4	340500	1702.5	23.24	24.00	1.191	0.09	0.981	1.169
	FR1 N70	15M	BPSK	36	22	DFT-15	Bottom Side	12mm	Ant 1	DSI 4	340500	1702.5	23.24	24.00	1.191	-0.02	0.738	0.879
	FR1 N70	15M	BPSK	75	0	DFT-15	Front	0mm	Ant 1	DSI 6	340500	1702.5	22.11	23.00	1.227	0.03	1.780	2.185
	FR1 N70	15M	BPSK	75	0	DFT-15	Back	0mm	Ant 1	DSI 6	340500	1702.5	22.11	23.00	1.227	0.08	2.460	3.020
	FR1 N70	15M	BPSK	75	0	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	340500	1702.5	22.11	23.00	1.227	0.17	2.500	3.069
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	20.60	21.50	1.230	-0.03	1.610	1.981
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	20.60	21.50	1.230	0.17	2.200	2.707
	FR1 N66	40M	BPSK	1	1	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	349000	1745	20.60	21.50	1.230	0.12	2.480	3.051
	FR1 N66	40M	BPSK	1	1	DFT-15	Front	4mm	Ant 1	DSI 4	349000	1745	23.28	24.00	1.180	-0.13	1.200	1.416
	FR1 N66	40M	BPSK	1	1	DFT-15	Back	7mm	Ant 1	DSI 4	349000	1745	23.28	24.00	1.180	0.01	1.090	1.287
	FR1 N66	40M	BPSK	1	1	DFT-15	Bottom Side	12mm	Ant 1	DSI 4	349000	1745	23.28	24.00	1.180	0.06	0.871	1.028
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	20.58	21.50	1.236	0.1	1.630	2.015
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	20.58	21.50	1.236	0.1	2.040	2.521
109	FR1 N66	40M	BPSK	108	54	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	349000	1745	20.58	21.50	1.236	0.18	2.550	**3.152**
	FR1 N66	40M	BPSK	108	54	DFT-15	Front	4mm	Ant 1	DSI 4	349000	1745	23.22	24.00	1.197	-0.13	1.140	1.364
	FR1 N66	40M	BPSK	108	54	DFT-15	Back	7mm	Ant 1	DSI 4	349000	1745	23.22	24.00	1.197	0.11	0.988	1.182
	FR1 N66	40M	BPSK	108	54	DFT-15	Bottom Side	12mm	Ant 1	DSI 4	349000	1745	23.22	24.00	1.197	0.02	0.824	0.986
	FR1 N66	40M	BPSK	216	0	DFT-15	Front	0mm	Ant 1	DSI 6	349000	1745	20.57	21.50	1.239	0.05	1.580	1.957
	FR1 N66	40M	BPSK	216	0	DFT-15	Back	0mm	Ant 1	DSI 6	349000	1745	20.57	21.50	1.239	0.13	2.100	2.601
	FR1 N66	40M	BPSK	216	0	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	349000	1745	20.57	21.50	1.239	0.02	2.450	3.035
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	0mm	Ant 2	DSI 6	376500	1882.5	22.36	23.00	1.159	0.1	2.470	2.862
110	FR1 N25	40M	BPSK	108	54	DFT-15	Back	0mm	Ant 2	DSI 6	376500	1882.5	22.34	23.00	1.164	-0.13	2.660	**3.097**
	FR1 N25	40M	BPSK	216	0	DFT-15	Back	0mm	Ant 2	DSI 6	376500	1882.5	22.33	23.00	1.167	0.05	2.460	2.870
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	10mm	Ant 2	DSI 4	376500	1882.5	23.28	24.00	1.180	-0.07	0.168	0.198
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	10mm	Ant 2	DSI 4	376500	1882.5	23.24	24.00	1.191	0.01	0.158	0.188
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	0mm	Ant 2	DSI 6 (Sim)	376500	1882.5	18.68	19.50	1.208	0.12	1.070	1.292
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	0mm	Ant 2	DSI 6 (Sim)	376500	1882.5	18.66	19.50	1.213	-0.14	1.160	1.408
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI 6	376500	1882.5	21.16	22.00	1.213	-0.1	1.950	2.366
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI 6	376500	1882.5	21.16	22.00	1.213	-0.14	2.180	2.645
	FR1 N25	40M	BPSK	1	1	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	376500	1882.5	21.16	22.00	1.213	0.03	2.480	3.009
	FR1 N25	40M	BPSK	1	1	DFT-15	Front	4mm	Ant 1	DSI 4	376500	1882.5	23.30	24.00	1.175	0.18	1.280	1.504
	FR1 N25	40M	BPSK	1	1	DFT-15	Back	7mm	Ant 1	DSI 4	376500	1882.5	23.30	24.00	1.175	0.19	1.000	1.175
	FR1 N25	40M	BPSK	1	1	DFT-15	Bottom Side	12mm	Ant 1	DSI 4	376500	1882.5	23.30	24.00	1.175	0.17	0.931	1.094
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI 6	376500	1882.5	21.14	22.00	1.219	0.06	2.030	2.475
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI 6	376500	1882.5	21.14	22.00	1.219	-0.17	2.280	2.779
	FR1 N25	40M	BPSK	108	54	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	376500	1882.5	21.14	22.00	1.219	-0.04	2.520	3.072
	FR1 N25	40M	BPSK	108	54	DFT-15	Front	4mm	Ant 1	DSI 4	376500	1882.5	23.26	24.00	1.186	0.18	1.470	1.743
	FR1 N25	40M	BPSK	108	54	DFT-15	Back	7mm	Ant 1	DSI 4	376500	1882.5	23.26	24.00	1.186	0.11	1.120	1.328
	FR1 N25	40M	BPSK	108	54	DFT-15	Bottom Side	12mm	Ant 1	DSI 4	376500	1882.5	23.26	24.00	1.186	0.07	0.907	1.075
	FR1 N25	40M	BPSK	216	0	DFT-15	Front	0mm	Ant 1	DSI 6	376500	1882.5	21.13	22.00	1.222	0.13	1.980	2.419
	FR1 N25	40M	BPSK	216	0	DFT-15	Back	0mm	Ant 1	DSI 6	376500	1882.5	21.13	22.00	1.222	0.08	2.150	2.627
	FR1 N25	40M	BPSK	216	0	DFT-15	Bottom Side	0mm	Ant 1	DSI 6	376500	1882.5	21.13	22.00	1.222	-0.05	2.440	2.981

	FR1 N30	10M	BPSK	1	1	DFT-15	Front	0mm	Ant 8	DSI 6	462000	2310	20.66	21.50	1.213	-0.06	1.030	1.250
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	0mm	Ant 8	DSI 6	462000	2310	20.66	21.50	1.213	0.08	1.790	2.172
	FR1 N30	10M	BPSK	1	1	DFT-15	Top Side	0mm	Ant 8	DSI 6	462000	2310	20.66	21.50	1.213	-0.18	2.340	2.839
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	7mm	Ant 8	DSI 4	462000	2310	23.28	24.00	1.180	0.08	0.422	0.498
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	10mm	Ant 8	DSI 4	462000	2310	23.28	24.00	1.180	-0.1	0.505	0.596
	FR1 N30	10M	BPSK	1	1	DFT-15	Top Side	12mm	Ant 8	DSI 4	462000	2310	23.28	24.00	1.180	-0.13	0.470	0.555
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	0mm	Ant 8	DSI 6	462000	2310	20.64	21.50	1.219	-0.04	1.080	1.317
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	0mm	Ant 8	DSI 6	462000	2310	20.64	21.50	1.219	-0.03	1.820	2.219
111	FR1 N30	10M	BPSK	25	14	DFT-15	Top Side	0mm	Ant 8	DSI 6	462000	2310	20.64	21.50	1.219	0.17	2.430	**2.962**
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	7mm	Ant 8	DSI 4	462000	2310	23.19	24.00	1.205	0.19	0.423	0.510
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	10mm	Ant 8	DSI 4	462000	2310	23.19	24.00	1.205	-0.06	0.513	0.618
	FR1 N30	10M	BPSK	25	14	DFT-15	Top Side	12mm	Ant 8	DSI 4	462000	2310	23.19	24.00	1.205	0.19	0.488	0.588
	FR1 N30	10M	BPSK	50	0	DFT-15	Back	0mm	Ant 8	DSI 6	462000	2310	20.62	21.50	1.225	0.06	1.750	2.143
	FR1 N30	10M	BPSK	50	0	DFT-15	Top Side	0mm	Ant 8	DSI 6	462000	2310	20.62	21.50	1.225	0.14	2.330	2.853
	FR1 N30	10M	BPSK	1	1	DFT-15	Front	0mm	Ant 8	DSI 6 (Sim)	462000	2310	17.66	18.50	1.213	0.13	0.501	0.608
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	0mm	Ant 8	DSI 6 (Sim)	462000	2310	17.66	18.50	1.213	-0.02	0.851	1.033
	FR1 N30	10M	BPSK	1	1	DFT-15	Top Side	0mm	Ant 8	DSI 6 (Sim)	462000	2310	17.66	18.50	1.213	0.15	1.120	1.359
	FR1 N30	10M	BPSK	25	14	DFT-15	Front	0mm	Ant 8	DSI 6 (Sim)	462000	2310	17.65	18.50	1.216	0.02	0.536	0.652
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	0mm	Ant 8	DSI 6 (Sim)	462000	2310	17.65	18.50	1.216	-0.02	0.899	1.093
	FR1 N30	10M	BPSK	25	14	DFT-15	Top Side	0mm	Ant 8	DSI 6 (Sim)	462000	2310	17.65	18.50	1.216	-0.15	1.210	1.472
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	0mm	Ant 7	DSI 6	462000	2310	22.77	23.50	1.183	-0.19	2.480	2.934
	FR1 N30	10M	BPSK	1	1	DFT-15	Bottom Side	0mm	Ant 7	DSI 6	462000	2310	22.77	23.50	1.183	0.07	1.700	2.011
	FR1 N30	10M	BPSK	1	1	DFT-15	Back	7mm	Ant 7	DSI 4	462000	2310	23.30	24.00	1.175	0.05	0.391	0.459
	FR1 N30	10M	BPSK	1	1	DFT-15	Bottom Side	12mm	Ant 7	DSI 4	462000	2310	23.30	24.00	1.175	0.03	0.288	0.338
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	0mm	Ant 7	DSI 6	462000	2310	22.75	23.50	1.189	-0.19	2.390	2.841
	FR1 N30	10M	BPSK	25	14	DFT-15	Bottom Side	0mm	Ant 7	DSI 6	462000	2310	22.75	23.50	1.189	-0.02	1.710	2.032
	FR1 N30	10M	BPSK	25	14	DFT-15	Back	7mm	Ant 7	DSI 4	462000	2310	23.23	24.00	1.194	-0.1	0.378	0.451
	FR1 N30	10M	BPSK	25	14	DFT-15	Bottom Side	12mm	Ant 7	DSI 4	462000	2310	23.23	24.00	1.194	0.08	0.284	0.339
	FR1 N30	10M	BPSK	50	0	DFT-15	Back	0mm	Ant 7	DSI 6	462000	2310	22.73	23.50	1.194	0.14	2.410	2.878
	FR1 N30	10M	BPSK	50	0	DFT-15	Bottom Side	0mm	Ant 7	DSI 6	462000	2310	22.73	23.50	1.194	0.08	1.670	1.994
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	518598	2592.99	19.14	20.00	1.219	0.07	1.660	2.024
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	518598	2592.99	19.12	20.00	1.225	0.15	1.610	1.972
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	518598	2592.99	19.10	20.00	1.230	0.05	1.600	1.968
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 7	DSI 6	518598	2592.99	22.25	23.00	1.189	0.19	1.980	2.353
112	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	518598	2592.99	22.25	23.00	1.189	0.13	2.590	**3.078**
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 7	DSI 6 / Full	518598	2592.99	26.14	27.00	1.219	0.04	2.220	2.706
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Bottom Side	0mm	Ant 7	DSI 6	518598	2592.99	22.25	23.00	1.189	0.09	1.670	1.985
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	4mm	Ant 7	DSI 4	518598	2592.99	26.14	27.00	1.219	0.14	1.620	1.975
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	7mm	Ant 7	DSI 4	518598	2592.99	26.14	27.00	1.219	-0.19	1.080	1.317
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Bottom Side	12mm	Ant 7	DSI 4	518598	2592.99	26.14	27.00	1.219	-0.15	0.763	0.930
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 7	DSI 6	518598	2592.99	22.22	23.00	1.197	-0.08	1.900	2.274
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 7	DSI 6	518598	2592.99	22.22	23.00	1.197	0.15	2.500	2.992
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 7	DSI 6 / Full	518598	2592.99	26.06	27.00	1.242	0.11	2.100	2.607
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Bottom Side	0mm	Ant 7	DSI 6	518598	2592.99	22.22	23.00	1.197	-0.1	1.640	1.963
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	4mm	Ant 7	DSI 4	518598	2592.99	26.06	27.00	1.242	0.09	1.360	1.689
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	7mm	Ant 7	DSI 4	518598	2592.99	26.06	27.00	1.242	0.05	0.969	1.203
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Bottom Side	12mm	Ant 7	DSI 4	518598	2592.99	26.06	27.00	1.242	-0.15	0.654	0.812
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Front	0mm	Ant 7	DSI 6	518598	2592.99	22.20	23.00	1.202	0.13	1.870	2.248
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 7	DSI 6	518598	2592.99	22.20	23.00	1.202	0.06	2.420	2.909
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Left Side	0mm	Ant 7	DSI 6 / Full	518598	2592.99	25.65	26.50	1.216	-0.11	1.850	2.250
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Bottom Side	0mm	Ant 7	DSI 6	518598	2592.99	22.20	23.00	1.202	-0.05	1.630	1.960
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 8	DSI 6	518598	2592.99	21.74	22.50	1.191	-0.14	1.210	1.441
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 6	518598	2592.99	21.74	22.50	1.191	-0.1	1.850	2.204
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 8	DSI 6	518598	2592.99	21.74	22.50	1.191	-0.03	2.530	3.014
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	7mm	Ant 8	DSI 4	518598	2592.99	25.88	27.00	1.294	-0.13	0.706	0.914

	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	10mm	Ant 8	DSI 4	518598	2592.99	25.88	27.00	1.294	0.01	0.696	0.901
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	12mm	Ant 8	DSI 4	518598	2592.99	25.88	27.00	1.294	0.06	0.791	1.024
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 8	DSI 6	518598	2592.99	21.72	22.50	1.197	0.12	1.200	1.436
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 6	518598	2592.99	21.72	22.50	1.197	0.03	1.880	2.250
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 8	DSI 6	518598	2592.99	21.72	22.50	1.197	-0.02	2.560	3.064
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	7mm	Ant 8	DSI 4	518598	2592.99	25.81	27.00	1.315	-0.13	0.698	0.918
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	10mm	Ant 8	DSI 4	518598	2592.99	25.81	27.00	1.315	0.11	0.689	0.906
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	12mm	Ant 8	DSI 4	518598	2592.99	25.81	27.00	1.315	0.02	0.822	1.081
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 8	DSI 6	518598	2592.99	21.70	22.50	1.202	0.05	1.810	2.176
	FR1 N41(HPUE)	100M	BPSK	270	0	DFT-30	Top Side	0mm	Ant 8	DSI 6	518598	2592.99	21.70	22.50	1.202	0.13	2.470	2.970
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 8	DSI 6 (Sim)	518598	2592.99	18.71	19.50	1.199	0.12	0.595	0.714
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI 6 (Sim)	518598	2592.99	18.71	19.50	1.199	-0.16	0.987	1.184
	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 8	DSI 6 (Sim)	518598	2592.99	18.71	19.50	1.199	-0.13	1.200	1.439
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 8	DSI 6 (Sim)	518598	2592.99	18.70	19.50	1.202	-0.17	0.606	0.729
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI 6 (Sim)	518598	2592.99	18.70	19.50	1.202	0.07	1.030	1.238
	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 8	DSI 6 (Sim)	518598	2592.99	18.70	19.50	1.202	0.11	1.230	1.479
	FR1 N41	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 9	DSI 6 / Full	518598	2592.99	19.07	20.00	1.239	0.08	1.630	2.019
	FR1 N41	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 9	DSI 6 / Full	518598	2592.99	19.05	20.00	1.245	0.13	1.550	1.929
	FR1 N41	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 9	DSI 6 / Full	518598	2592.99	19.02	20.00	1.253	0.06	1.570	1.967
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 4	633334	3500.01	26.10	27.00	1.230	-0.17	0.900	1.107
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	633334	3500.01	16.76	17.50	1.186	0.13	1.240	1.470
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 4	DSI 6	633334	3500.01	16.76	17.50	1.186	-0.03	0.590	0.700
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 4	633334	3500.01	26.10	27.00	1.230	-0.1	0.643	0.791
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	12mm	Ant 4	DSI 4	633334	3500.01	26.10	27.00	1.230	0.11	0.193	0.237
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	26.10	27.00	1.230	0.07	0.220	0.271
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 4	633334	3500.01	26.05	27.00	1.245	0.05	0.948	1.180
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	633334	3500.01	16.75	17.50	1.189	0.06	1.390	1.652
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 4	DSI 6	633334	3500.01	16.75	17.50	1.189	-0.1	0.626	0.744
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 4	633334	3500.01	26.05	27.00	1.245	0.18	0.684	0.851
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	12mm	Ant 4	DSI 4	633334	3500.01	26.05	27.00	1.245	0.17	0.219	0.273
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	633334	3500.01	26.05	27.00	1.245	0.18	0.244	0.304
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 4	633334	3500.01	26.10	27.00	1.230	-0.17	0.900	1.107
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6 (Sim)	633334	3500.01	13.67	14.50	1.211	-0.17	0.617	0.747
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 4	DSI 6 (Sim)	633334	3500.01	13.67	14.50	1.211	-0.06	0.278	0.337
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 4	633334	3500.01	26.10	27.00	1.230	-0.1	0.643	0.791
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 4	633334	3500.01	26.05	27.00	1.245	0.05	0.948	1.180
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6 (Sim)	633334	3500.01	13.65	14.50	1.216	-0.09	0.700	0.851
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 4	DSI 6 (Sim)	633334	3500.01	13.65	14.50	1.216	-0.19	0.297	0.361
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 4	633334	3500.01	26.05	27.00	1.245	0.18	0.684	0.851
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 4	656000	3840	25.31	27.00	1.476	0.01	0.665	0.981
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	16.78	17.50	1.180	0.04	2.270	2.679
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 4	DSI 6	656000	3840	16.78	17.50	1.180	-0.05	0.555	0.655
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 4	656000	3840	25.31	27.00	1.476	-0.12	0.854	1.260
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	12mm	Ant 4	DSI 4	656000	3840	25.31	27.00	1.476	0.08	0.573	0.846
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	10mm	Ant 4	DSI 4	656000	3840	25.31	27.00	1.476	-0.1	0.406	0.599
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 4	656000	3840	25.30	27.00	1.479	-0.13	0.764	1.130
113	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	16.77	17.50	1.183	-0.19	2.670	**3.159**
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 4	DSI 6	656000	3840	16.77	17.50	1.183	0.15	0.636	0.752
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 4	656000	3840	25.30	27.00	1.479	0.08	0.969	1.433
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	12mm	Ant 4	DSI 4	656000	3840	25.30	27.00	1.479	-0.13	0.605	0.895
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	10mm	Ant 4	DSI 4	656000	3840	25.30	27.00	1.479	0.19	0.419	0.620
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Front	0mm	Ant 4	DSI 4	656000	3840	24.87	26.50	1.455	-0.08	0.634	0.923
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	16.75	17.50	1.189	0.01	2.380	2.829
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Top Side	0mm	Ant 4	DSI 4	656000	3840	24.87	26.50	1.455	-0.01	0.842	1.225
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Front	0mm	Ant 4	DSI 4	656000	3840	25.31	27.00	1.476	0.01	0.665	0.981

	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 4	DSI 6 (Sim)	656000	3840	13.65	14.50	1.216	0.01	0.982	1.194
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Left Side	0mm	Ant 4	DSI 6 (Sim)	656000	3840	13.65	14.50	1.216	0.19	0.297	0.361
	FR1 N77(HPUE)	100M	BPSK	1	1	DFT-30	Top Side	0mm	Ant 4	DSI 4	656000	3840	25.31	27.00	1.476	-0.12	0.854	1.260
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Front	0mm	Ant 4	DSI 4	656000	3840	25.30	27.00	1.479	-0.13	0.764	1.130
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6 (Sim)	656000	3840	13.63	14.50	1.222	-0.09	1.100	1.344
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Left Side	0mm	Ant 4	DSI 6 (Sim)	656000	3840	13.63	14.50	1.222	0.16	0.316	0.386
	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Top Side	0mm	Ant 4	DSI 4	656000	3840	25.30	27.00	1.479	0.08	0.969	1.433
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Front	0mm	Ant 4	DSI 4	656000	3840	24.87	26.50	1.455	-0.08	0.634	0.923
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 4	DSI 6 (Sim)	656000	3840	13.60	14.50	1.230	0.03	0.993	1.222
	FR1 N77(HPUE)	100M	BPSK	270	0	DFT-30	Top Side	0mm	Ant 4	DSI 4	656000	3840	24.87	26.50	1.455	-0.01	0.842	1.225
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	633334	3500.01	16.96	18.00	1.271	-0.18	1.730	2.198
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	633334	3500.01	16.94	18.00	1.276	0.05	1.690	2.157
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	633334	3500.01	16.93	18.00	1.279	-0.12	1.660	2.124
	FR1 N77	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	656000	3840	16.98	18.00	1.265	-0.13	0.903	1.142
	FR1 N77	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	656000	3840	16.96	18.00	1.271	-0.09	0.897	1.140
	FR1 N77	100M	BPSK	270	0	DFT-30	Back	0mm	Ant 6	DSI 6 / Full	656000	3840	16.94	18.00	1.276	-0.01	0.891	1.137

<WLAN5G SAR>

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)
114	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	46	5230	17.44	19.00	1.432	96.77	1.033	0.06	1.990	**2.944**
	WLAN5.2GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5	Standalone	38	5190	15.68	17.50	1.521	96.77	1.033	0.13	1.180	1.853
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full	44	5220	20.31	21.00	1.172	98.13	1.019	0.03	0.574	0.686
	WLAN5.2GHz	802.11a 6Mbps	Back	7mm	Ant 5	Full	44	5220	20.31	21.00	1.172	98.13	1.019	-0.1	1.240	1.481
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	42	5210	14.83	16.50	1.469	91.95	1.088	-0.15	1.060	1.694
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	42	5210	14.83	16.50	1.469	91.95	1.088	0.07	0.175	0.280
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	0.11	0.053	0.062
115	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Standalone	58	5290	17.27	19.00	1.489	91.95	1.088	-0.18	1.850	**2.998**
	WLAN5.3GHz	802.11a 6Mbps	Left Side	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	0.09	0.097	0.114
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	0.16	0.101	0.118
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full	60	5300	20.39	21.00	1.151	98.13	1.019	-0.17	0.838	0.983
	WLAN5.3GHz	802.11a 6Mbps	Back	7mm	Ant 5	Full	60	5300	20.33	21.00	1.167	98.13	1.019	0.09	1.280	1.522
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	0.04	0.012	0.020
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	0.13	1.010	1.690
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	0.12	0.013	0.022
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	0.07	0.022	0.037
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	58	5290	14.63	16.50	1.538	91.95	1.088	0.07	0.199	0.333
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	-0.12	0.135	0.175
116	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Standalone	106	5530	16.49	18.00	1.416	91.95	1.088	-0.15	1.940	**2.988**
	WLAN5.5GHz	802.11a 6Mbps	Left Side	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.08	0.112	0.145
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	-0.04	0.162	0.210
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.05	1.240	1.609
	WLAN5.5GHz	802.11a 6Mbps	Back	7mm	Ant 5	Full	116	5580	20.45	21.50	1.274	98.13	1.019	0.14	1.120	1.453
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	0.01	0.018	0.028
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	-0.14	1.040	1.609
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	0.17	0.017	0.026
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	-0.19	0.031	0.048
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	106	5530	13.97	15.50	1.422	91.95	1.088	0.06	0.197	0.305
117	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Standalone	155	5775	17.34	19.00	1.466	91.95	1.088	0.05	1.880	**2.998**
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	-0.17	0.780	1.187
	WLAN5.8GHz	802.11a 6Mbps	Back	7mm	Ant 5	Full	157	5785	20.26	22.00	1.493	98.13	1.019	0.08	0.747	1.136
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 5	Simultaneous	155	5775	14.91	16.50	1.442	91.95	1.088	-0.03	1.030	1.616
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 5	Simultaneous	155	5775	14.91	16.50	1.442	91.95	1.088	-0.12	0.232	0.364

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	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	23330	793	22.05	23.00	1.245	-	1.000	-0.09	0.988	1	1.230
2nd	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 2	23330	793	22.05	23.00	1.245	-	1.000	0.02	0.954	1.036	1.187
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Standalone	11	2462	17.00	18.00	1.259	99.29	1.007	-0.05	0.934	1	1.184
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Standalone	11	2462	17.00	18.00	1.259	99.29	1.007	0.08	0.922	1.013	1.169
1st	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.74	22.50	1.191	-	-	-0.1	0.929	1	1.107
2nd	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Right Cheek	0mm	Ant 4	DSI2	633334	3500.01	21.74	22.50	1.191	-	-	0.03	0.915	1.015	1.090
1st	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 (Sim)	26965	841.5	22.05	23.00	1.245	-	1.000	-0.14	0.965	1	1.201
2nd	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI 3 (Sim)	26965	841.5	22.05	23.00	1.245	-	1.000	0.05	0.914	1.056	1.137
1st	FR1 N70	15M	BPSK	36	22	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	-	1.000	-0.12	1.070	1	1.272
2nd	FR1 N70	15M	BPSK	36	22	DFT-15	Bottom Side	5mm	Ant 1	DSI 3 (Sim)	340500	1702.5	17.25	18.00	1.189	-	1.000	0.05	1.050	1.019	1.248
1st	FR1 N30	10M	BPSK	25	14	DFT-15	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	-	1.000	0.01	1.050	1	1.239
2nd	FR1 N30	10M	BPSK	25	14	DFT-15	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	462000	2310	21.28	22.00	1.180	-	1.000	0.03	1.000	1.050	1.180
1st	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	-	1.000	0.17	1.010	1	1.257
2nd	FR1 N41(HPUE)	100M	BPSK	135	69	DFT-30	Bottom Side	5mm	Ant 7	DSI 3 (Sim)	518598	2592.99	20.05	21.00	1.245	-	1.000	0.05	1.000	1.010	1.245
1st	GSM1900	-	-	-	-	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	810	1909.8	22.34	23.00	1.164	-	1.000	0.18	1.090	1	1.269
2nd	GSM1900	-	-	-	-	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	810	1909.8	22.34	23.00	1.164	-	1.000	0.06	1.070	1.019	1.246
1st	LTE Band 48	20M	QPSK	1	99	-	Back	5mm	Ant 4	DSI 3	56640	3690	19.34	20.00	1.164	62.9	1.006	0.02	1.070	1	1.253
2nd	LTE Band 48	20M	QPSK	1	99	-	Back	5mm	Ant 4	DSI 3	56640	3690	19.34	20.00	1.164	62.9	1.006	0.05	1.030	1.039	1.206
1st	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	656000	3840	12.19	13.00	1.205	-	1.000	0.07	1.040	1	1.253
2nd	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	5mm	Ant 4	DSI 3	656000	3840	12.19	13.00	1.205	-	1.000	0.11	0.998	1.042	1.203
1st	WLAN5GHz	-	-	-	-	802.11a 6Mbps	Back	27mm	Ant 5	DSI4	60	5300	20.39	21.00	1.151	98.13	1.019	0.05	0.971	1	1.139
2nd	WLAN5GHz	-	-	-	-	802.11a 6Mbps	Back	27mm	Ant 5	DSI4	60	5300	20.39	21.00	1.151	98.13	1.019	0.07	0.968	1.003	1.135
1st	WLAN5GHz	-	-	-	-	802.11a 6Mbps	Back	27mm	Ant 5	DSI4	116	5580	20.45	21.50	1.274	98.13	1.019	0.05	0.830	1	1.077
2nd	WLAN5GHz	-	-	-	-	802.11a 6Mbps	Back	27mm	Ant 5	DSI4	116	5580	20.45	21.50	1.274	98.13	1.019	0.07	0.821	1.011	1.065

<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	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	21.63	22.50	1.222	-	1.000	0.17	2.580	1	3.152
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	21.63	22.50	1.222	-	1.000	0.05	2.370	1.089	2.896
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9538	1907.6	20.80	21.50	1.175	-	1.000	0.16	2.670	1	3.137
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI 6	9538	1907.6	20.80	21.50	1.175	-	1.000	0.06	2.620	1.019	3.078
1st	LTE Band 48	20M	QPSK	1	99	-	Back	0mm	Ant 4	DSI 6	56640	3690	20.46	21.00	1.132	62.9	1.006	-0.1	2.590	1	2.951
2nd	LTE Band 48	20M	QPSK	1	99	-	Back	0mm	Ant 4	DSI 6	56640	3690	20.46	21.00	1.132	62.9	1.006	-0.05	2.480	1.044	2.825
1st	FR1 N30	10M	BPSK	1	1	DFT-15	Back	0mm	Ant 7	DSI 6	462000	2310	22.77	23.50	1.183	-	1.000	-0.19	2.480	1	2.934
2nd	FR1 N30	10M	BPSK	1	1	DFT-15	Back	0mm	Ant 7	DSI 6	462000	2310	22.77	23.50	1.183	-	1.000	-0.11	2.420	1.025	2.863
1st	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	518598	2592.99	22.25	23.00	1.189	-	1.000	0.13	2.590	1	3.078
2nd	FR1 N41(HPUE)	100M	BPSK	1	1	DFT-30	Back	0mm	Ant 7	DSI 6	518598	2592.99	22.25	23.00	1.189	-	1.000	0.05	2.520	1.028	2.995
1st	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	16.77	17.50	1.183	-	1.000	-0.19	2.670	1	3.159
2nd	FR1 N77(HPUE)	100M	BPSK	135	69	DFT-30	Back	0mm	Ant 4	DSI 6	656000	3840	16.77	17.50	1.183	-	1.000	-0.07	2.580	1.035	3.052

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.

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

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

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands.
3. EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
4. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.
5. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
6. 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).
7. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
8. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
11. The maximum SAR summation is calculated based on the same configuration and test position.
12. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
    i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
    ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
    iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR≤ 0.10 for 10g SAR , simultaneously transmission SAR measurement is not necessary.
    iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
    v) 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 Qualcomm® Smart Transmit, 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.

Smart Transmit 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 (100-x)%. Thus, the compliance equation for LTE + 5G NR is

*x% * A + (100-x)% * B ≤ 1.0,*

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

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

*x% * A + (100-x)% * B + C ≤ 1.0* (1)

x% * A + (100-x)% * B ≤ x% * max(A, B) + (100-x)% * max(A, B) ≤ max(A, B)

*x% * A + (100-x)% * B + C ≤ max(A, B) + C ≤ 1.0* (2)

if A + C ≤ 1.0 and B + C ≤ 1.0 can be proven, then “x% * A + (100-x)% * B + C ≤ 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

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

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17.2 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed	1+3 Summed	1+4 Summed
		WWAN	2.4GHz WLAN Ant 3	5GHz WLAN Ant 5	Bluetooth Ant 3	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850 Ant 1	Right Cheek	0.362	0.197	0.299	0.183	0.56	0.66	0.55
	Right Tilted	0.148	0.157	0.305	0.136	0.31	0.45	0.28
	Left Cheek	0.215	0.435	0.381	0.431	0.65	0.60	0.65
	Left Tilted	0.128	0.270	0.423	0.260	0.40	0.55	0.39
GSM1900 Ant 1	Right Cheek	0.086	0.197	0.299	0.183	0.28	0.39	0.27
	Right Tilted	0.057	0.157	0.305	0.136	0.21	0.36	0.19
	Left Cheek	0.095	0.435	0.381	0.431	0.53	0.48	0.53
	Left Tilted	0.068	0.270	0.423	0.260	0.34	0.49	0.33
WCDMA V Ant 1	Right Cheek	0.279	0.197	0.299	0.183	0.48	0.58	0.46
	Right Tilted	0.120	0.157	0.305	0.136	0.28	0.43	0.26
	Left Cheek	0.210	0.435	0.381	0.431	0.65	0.59	0.64
	Left Tilted	0.095	0.270	0.423	0.260	0.37	0.52	0.36
WCDMA IV Ant 1	Right Cheek	0.198	0.197	0.299	0.183	0.40	0.50	0.38
	Right Tilted	0.053	0.157	0.305	0.136	0.21	0.36	0.19
	Left Cheek	0.100	0.435	0.381	0.431	0.54	0.48	0.53
	Left Tilted	0.060	0.270	0.423	0.260	0.33	0.48	0.32
WCDMA II Ant 1	Right Cheek	0.137	0.197	0.299	0.183	0.33	0.44	0.32
	Right Tilted	0.089	0.157	0.305	0.136	0.25	0.39	0.23
	Left Cheek	0.143	0.435	0.381	0.431	0.58	0.52	0.57
	Left Tilted	0.102	0.270	0.423	0.260	0.37	0.53	0.36
LTE Band 71 Ant 2	Right Cheek	0.886	0.197	0.299	0.183	1.08	1.19	1.07
	Right Tilted	0.872	0.157	0.305	0.136	1.03	1.18	1.01
	Left Cheek	0.505	0.435	0.381	0.431	0.94	0.89	0.94
	Left Tilted	0.483	0.270	0.423	0.260	0.75	0.91	0.74
LTE Band 71 Ant 1	Right Cheek	0.187	0.197	0.299	0.183	0.38	0.49	0.37
	Right Tilted	0.089	0.157	0.305	0.136	0.25	0.39	0.23
	Left Cheek	0.143	0.435	0.381	0.431	0.58	0.52	0.57
	Left Tilted	0.088	0.270	0.423	0.260	0.36	0.51	0.35
LTE Band 12 Ant 2	Right Cheek	0.872	0.197	0.299	0.183	1.07	1.17	1.06
	Right Tilted	0.831	0.157	0.305	0.136	0.99	1.14	0.97
	Left Cheek	0.426	0.435	0.381	0.431	0.86	0.81	0.86
	Left Tilted	0.377	0.270	0.423	0.260	0.65	0.80	0.64
LTE Band 12 Ant 1	Right Cheek	0.253	0.197	0.299	0.183	0.45	0.55	0.44
	Right Tilted	0.096	0.157	0.305	0.136	0.25	0.40	0.23
	Left Cheek	0.201	0.435	0.381	0.431	0.64	0.58	0.63
	Left Tilted	0.101	0.270	0.423	0.260	0.37	0.52	0.36
LTE Band 13 Ant 2	Right Cheek	0.863	0.197	0.299	0.183	1.06	1.16	1.05
	Right Tilted	0.808	0.157	0.305	0.136	0.97	1.11	0.94
	Left Cheek	0.555	0.435	0.381	0.431	0.99	0.94	0.99
	Left Tilted	0.531	0.270	0.423	0.260	0.80	0.95	0.79
LTE Band 13 Ant 1	Right Cheek	0.232	0.197	0.299	0.183	0.43	0.53	0.42
	Right Tilted	0.089	0.157	0.305	0.136	0.25	0.39	0.23
	Left Cheek	0.162	0.435	0.381	0.431	0.60	0.54	0.59
	Left Tilted	0.087	0.270	0.423	0.260	0.36	0.51	0.35
LTE Band 14 Ant 2	Right Cheek	0.768	0.197	0.299	0.183	0.97	1.07	0.95
	Right Tilted	0.757	0.157	0.305	0.136	0.91	1.06	0.89
	Left Cheek	0.505	0.435	0.381	0.431	0.94	0.89	0.94
	Left Tilted	0.494	0.270	0.423	0.260	0.76	0.92	0.75
LTE Band 14 Ant 1	Right Cheek	0.232	0.197	0.299	0.183	0.43	0.53	0.42
	Right Tilted	0.124	0.157	0.305	0.136	0.28	0.43	0.26

	Left Cheek	0.203	0.435	0.381	0.431	0.64	0.58	0.63
	Left Tilted	0.120	0.270	0.423	0.260	0.39	0.54	0.38
LTE Band 26 Ant 2	Right Cheek	0.763	0.197	0.299	0.183	0.96	1.06	0.95
	Right Tilted	0.690	0.157	0.305	0.136	0.85	1.00	0.83
	Left Cheek	0.446	0.435	0.381	0.431	0.88	0.83	0.88
	Left Tilted	0.400	0.270	0.423	0.260	0.67	0.82	0.66
LTE Band 26 Ant 1	Right Cheek	0.287	0.197	0.299	0.183	0.48	0.59	0.47
	Right Tilted	0.123	0.157	0.305	0.136	0.28	0.43	0.26
	Left Cheek	0.158	0.435	0.381	0.431	0.59	0.54	0.59
	Left Tilted	0.110	0.270	0.423	0.260	0.38	0.53	0.37
LTE Band 66 Ant 2	Right Cheek	0.832	0.197	0.299	0.183	1.03	1.13	1.02
	Right Tilted	0.522	0.157	0.305	0.136	0.68	0.83	0.66
	Left Cheek	0.236	0.435	0.381	0.431	0.67	0.62	0.67
	Left Tilted	0.171	0.270	0.423	0.260	0.44	0.59	0.43
LTE Band 66 Ant 1	Right Cheek	0.195	0.197	0.299	0.183	0.39	0.49	0.38
	Right Tilted	0.074	0.157	0.305	0.136	0.23	0.38	0.21
	Left Cheek	0.144	0.435	0.381	0.431	0.58	0.53	0.58
	Left Tilted	0.121	0.270	0.423	0.260	0.39	0.54	0.38
LTE Band 25 Ant 2	Right Cheek	0.739	0.197	0.299	0.183	0.94	1.04	0.92
	Right Tilted	0.515	0.157	0.305	0.136	0.67	0.82	0.65
	Left Cheek	0.183	0.435	0.381	0.431	0.62	0.56	0.61
	Left Tilted	0.125	0.270	0.423	0.260	0.40	0.55	0.39
LTE Band 25 Ant 1	Right Cheek	0.217	0.197	0.299	0.183	0.41	0.52	0.40
	Right Tilted	0.116	0.157	0.305	0.136	0.27	0.42	0.25
	Left Cheek	0.130	0.435	0.381	0.431	0.57	0.51	0.56
	Left Tilted	0.113	0.270	0.423	0.260	0.38	0.54	0.37
LTE Band 30 Ant 8	Right Cheek	0.550	0.197	0.299	0.183	0.75	0.85	0.73
	Right Tilted	0.698	0.157	0.305	0.136	0.86	1.00	0.83
	Left Cheek	0.412	0.435	0.381	0.431	0.85	0.79	0.84
	Left Tilted	0.479	0.270	0.423	0.260	0.75	0.90	0.74
LTE Band 30 Ant 7	Right Cheek	0.097	0.197	0.299	0.183	0.29	0.40	0.28
	Right Tilted	0.089	0.157	0.305	0.136	0.25	0.39	0.23
	Left Cheek	0.143	0.435	0.381	0.431	0.58	0.52	0.57
	Left Tilted	0.068	0.270	0.423	0.260	0.34	0.49	0.33
LTE Band 7 Ant 7	Right Cheek	0.254	0.197	0.299	0.183	0.45	0.55	0.44
	Right Tilted	0.242	0.157	0.305	0.136	0.40	0.55	0.38
	Left Cheek	0.292	0.435	0.381	0.431	0.73	0.67	0.72
	Left Tilted	0.122	0.270	0.423	0.260	0.39	0.55	0.38
LTE Band 41 Ant 8	Right Cheek	0.713	0.197	0.299	0.183	0.91	1.01	0.90
	Right Tilted	0.828	0.157	0.305	0.136	0.99	1.13	0.96
	Left Cheek	0.583	0.435	0.381	0.431	1.02	0.96	1.01
	Left Tilted	0.797	0.270	0.423	0.260	1.07	1.22	1.06
LTE Band 41 Ant 7	Right Cheek	0.164	0.197	0.299	0.183	0.36	0.46	0.35
	Right Tilted	0.143	0.157	0.305	0.136	0.30	0.45	0.28
	Left Cheek	0.233	0.435	0.381	0.431	0.67	0.61	0.66
	Left Tilted	0.094	0.270	0.423	0.260	0.36	0.52	0.35
LTE Band 41(HPUE) Ant 8	Right Cheek	0.594	0.197	0.299	0.183	0.79	0.89	0.78
	Right Tilted	0.792	0.157	0.305	0.136	0.95	1.10	0.93
	Left Cheek	0.534	0.435	0.381	0.431	0.97	0.92	0.97
	Left Tilted	0.585	0.270	0.423	0.260	0.86	1.01	0.85
LTE Band 41(HPUE) Ant 7	Right Cheek	0.234	0.197	0.299	0.183	0.43	0.53	0.42
	Right Tilted	0.197	0.157	0.305	0.136	0.35	0.50	0.33
	Left Cheek	0.296	0.435	0.381	0.431	0.73	0.68	0.73
	Left Tilted	0.123	0.270	0.423	0.260	0.39	0.55	0.38
LTE Band 48 Ant 4	Right Cheek	0.806	0.197	0.299	0.183	1.00	1.11	0.99
	Right Tilted	0.253	0.157	0.305	0.136	0.41	0.56	0.39

	Left Cheek	0.186	0.435	0.381	0.431	0.62	0.57	0.62
	Left Tilted	0.140	0.270	0.423	0.260	0.41	0.56	0.40

<5GNR Mode>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed	1+3 Summed	1+4 Summed
		WWAN	2.4GHz WLAN Ant 3	5GHz WLAN Ant 5	Bluetooth Ant 3	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
FR1 N71 Ant 2	Right Cheek	0.685	0.197	0.299	0.183	0.88	0.98	0.87
	Right Tilted	0.611	0.157	0.305	0.136	0.77	0.92	0.75
	Left Cheek	0.360	0.435	0.381	0.431	0.80	0.74	0.79
	Left Tilted	0.352	0.270	0.423	0.260	0.62	0.78	0.61
FR1 N71 Ant 1	Right Cheek	0.096	0.197	0.299	0.183	0.29	0.40	0.28
	Right Tilted	0.050	0.157	0.305	0.136	0.21	0.36	0.19
	Left Cheek	0.090	0.435	0.381	0.431	0.53	0.47	0.52
	Left Tilted	0.044	0.270	0.423	0.260	0.31	0.47	0.30
FR1 N12 Ant 2	Right Cheek	0.870	0.197	0.299	0.183	1.07	1.17	1.05
	Right Tilted	0.799	0.157	0.305	0.136	0.96	1.10	0.94
	Left Cheek	0.483	0.435	0.381	0.431	0.92	0.86	0.91
	Left Tilted	0.450	0.270	0.423	0.260	0.72	0.87	0.71
FR1 N14 Ant 2	Right Cheek	0.851	0.197	0.299	0.183	1.05	1.15	1.03
	Right Tilted	0.746	0.157	0.305	0.136	0.90	1.05	0.88
	Left Cheek	0.529	0.435	0.381	0.431	0.96	0.91	0.96
	Left Tilted	0.520	0.270	0.423	0.260	0.79	0.94	0.78
FR1 N26 Ant 2	Right Cheek	0.873	0.197	0.299	0.183	1.07	1.17	1.06
	Right Tilted	0.855	0.157	0.305	0.136	1.01	1.16	0.99
	Left Cheek	0.505	0.435	0.381	0.431	0.94	0.89	0.94
	Left Tilted	0.473	0.270	0.423	0.260	0.74	0.90	0.73
FR1 N5 Ant 1	Right Cheek	0.151	0.197	0.299	0.183	0.35	0.45	0.33
	Right Tilted	0.063	0.157	0.305	0.136	0.22	0.37	0.20
	Left Cheek	0.109	0.435	0.381	0.431	0.54	0.49	0.54
	Left Tilted	0.070	0.270	0.423	0.260	0.34	0.49	0.33
FR1 N70 Ant 2	Right Cheek	0.326	0.197	0.299	0.183	0.52	0.63	0.51
	Right Tilted	0.224	0.157	0.305	0.136	0.38	0.53	0.36
	Left Cheek	0.160	0.435	0.381	0.431	0.60	0.54	0.59
	Left Tilted	0.080	0.270	0.423	0.260	0.35	0.50	0.34
FR1 N70 Ant 1	Right Cheek	0.109	0.197	0.299	0.183	0.31	0.41	0.29
	Right Tilted	0.050	0.157	0.305	0.136	0.21	0.36	0.19
	Left Cheek	0.078	0.435	0.381	0.431	0.51	0.46	0.51
	Left Tilted	0.074	0.270	0.423	0.260	0.34	0.50	0.33
FR1 N66 Ant 2	Right Cheek	0.877	0.197	0.299	0.183	1.07	1.18	1.06
	Right Tilted	0.626	0.157	0.305	0.136	0.78	0.93	0.76
	Left Cheek	0.365	0.435	0.381	0.431	0.80	0.75	0.80
	Left Tilted	0.226	0.270	0.423	0.260	0.50	0.65	0.49
FR1 N66 Ant 1	Right Cheek	0.156	0.197	0.299	0.183	0.35	0.46	0.34
	Right Tilted	0.067	0.157	0.305	0.136	0.22	0.37	0.20
	Left Cheek	0.091	0.435	0.381	0.431	0.53	0.47	0.52
	Left Tilted	0.086	0.270	0.423	0.260	0.36	0.51	0.35
FR1 N25 Ant 2	Right Cheek	0.868	0.197	0.299	0.183	1.07	1.17	1.05
	Right Tilted	0.622	0.157	0.305	0.136	0.78	0.93	0.76
	Left Cheek	0.297	0.435	0.381	0.431	0.73	0.68	0.73
	Left Tilted	0.233	0.270	0.423	0.260	0.50	0.66	0.49
FR1 N25 Ant 1	Right Cheek	0.094	0.197	0.299	0.183	0.29	0.39	0.28
	Right Tilted	0.056	0.157	0.305	0.136	0.21	0.36	0.19
	Left Cheek	0.073	0.435	0.381	0.431	0.51	0.45	0.50
	Left Tilted	0.072	0.270	0.423	0.260	0.34	0.50	0.33

FR1 N30 Ant 8	Right Cheek	0.487	0.197	0.299	0.183	0.68	0.79	0.67
	Right Tilted	0.779	0.157	0.305	0.136	0.94	1.08	0.92
	Left Cheek	0.306	0.435	0.381	0.431	0.74	0.69	0.74
	Left Tilted	0.444	0.270	0.423	0.260	0.71	0.87	0.70
FR1 N30 Ant 7	Right Cheek	0.081	0.197	0.299	0.183	0.28	0.38	0.26
	Right Tilted	0.075	0.157	0.305	0.136	0.23	0.38	0.21
	Left Cheek	0.176	0.435	0.381	0.431	0.61	0.56	0.61
	Left Tilted	0.064	0.270	0.423	0.260	0.33	0.49	0.32
FR1 N41 Ant 6	Right Cheek	0.071	0.197	0.299	0.183	0.27	0.37	0.25
	Right Tilted	0.068	0.157	0.305	0.136	0.23	0.37	0.20
	Left Cheek	0.062	0.435	0.381	0.431	0.50	0.44	0.49
	Left Tilted	0.051	0.270	0.423	0.260	0.32	0.47	0.31
FR1 N41(HPUE) Ant 7	Right Cheek	0.313	0.197	0.299	0.183	0.51	0.61	0.50
	Right Tilted	0.339	0.157	0.305	0.136	0.50	0.64	0.48
	Left Cheek	0.493	0.435	0.381	0.431	0.93	0.87	0.92
	Left Tilted	0.202	0.270	0.423	0.260	0.47	0.63	0.46
FR1 N41(HPUE) Ant 8	Right Cheek	0.669	0.197	0.299	0.183	0.87	0.97	0.85
	Right Tilted	0.790	0.157	0.305	0.136	0.95	1.10	0.93
	Left Cheek	0.529	0.435	0.381	0.431	0.96	0.91	0.96
	Left Tilted	0.613	0.270	0.423	0.260	0.88	1.04	0.87
FR1 N41 Ant 9	Right Cheek	0.167	0.197	0.299	0.183	0.36	0.47	0.35
	Right Tilted	0.190	0.157	0.305	0.136	0.35	0.50	0.33
	Left Cheek	0.139	0.435	0.381	0.431	0.57	0.52	0.57
	Left Tilted	0.171	0.270	0.423	0.260	0.44	0.59	0.43
FR1 N77(HPUE) Ant 4	Right Cheek	0.852	0.197	0.299	0.183	1.05	1.15	1.04
	Right Tilted	0.513	0.157	0.305	0.136	0.67	0.82	0.65
	Left Cheek	0.306	0.435	0.381	0.431	0.74	0.69	0.74
	Left Tilted	0.296	0.270	0.423	0.260	0.57	0.72	0.56
FR1 N77 Ant 5	Right Cheek	0.125	0.197	0.299	0.183	0.32	0.42	0.31
	Right Tilted	0.130	0.157	0.305	0.136	0.29	0.44	0.27
	Left Cheek	0.117	0.435	0.381	0.431	0.55	0.50	0.55
	Left Tilted	0.150	0.270	0.423	0.260	0.42	0.57	0.41
FR1 N77 Ant 6	Right Cheek	0.038	0.197	0.299	0.183	0.24	0.34	0.22
	Right Tilted	0.018	0.157	0.305	0.136	0.18	0.32	0.15
	Left Cheek	0.035	0.435	0.381	0.431	0.47	0.42	0.47
	Left Tilted	0.025	0.270	0.423	0.260	0.30	0.45	0.29
FR1 N77 Ant 10	Right Cheek	0.016	0.197	0.299	0.183	0.21	0.32	0.20
	Right Tilted	0.011	0.157	0.305	0.136	0.17	0.32	0.15
	Left Cheek	0.014	0.435	0.381	0.431	0.45	0.40	0.45
	Left Tilted	0.015	0.270	0.423	0.260	0.29	0.44	0.28

17.3 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1 WWAN 1g SAR (W/kg)	2 2.4GHz WLAN Ant 3 1g SAR (W/kg)	3 5GHz WLAN Ant 5 1g SAR (W/kg)	4 Bluetooth Ant 3 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	Case No
GSM850Ant 1	Front	0.631	0.508	0.025	0.134	1.14	0.66	0.77	
	Back	1.249	0.530	0.729	0.140	**1.78**	**1.98**	1.39	**#1/#2**
	Left side	0.219	0.115	0.018	0.022	0.33	0.24	0.24	
	Right side	0.307	0.145	0.021		0.45	0.33	0.31	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.716				0.72	0.72	0.72	
GSM1900Ant 1	Front	0.514	0.508	0.025	0.134	1.02	0.54	0.65	
	Back	0.837	0.530	0.729	0.140	1.37	**1.57**	0.98	
	Left side	0.072	0.115	0.018	0.022	0.19	0.09	0.09	
	Right side	0.055	0.145	0.021		0.20	0.08	0.06	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.268				1.27	1.27	1.27	
WCDMA VAnt 1	Front	0.606	0.508	0.025	0.134	1.11	0.63	0.74	
	Back	1.113	0.530	0.729	0.140	**1.64**	**1.84**	1.25	**#3/#4**
	Left side	0.165	0.115	0.018	0.022	0.28	0.18	0.19	
	Right side	0.222	0.145	0.021		0.37	0.24	0.22	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.727				0.73	0.73	0.73	
WCDMA IVAnt 1	Front	0.612	0.508	0.025	0.134	1.12	0.64	0.75	
	Back	0.732	0.530	0.729	0.140	1.26	1.46	0.87	
	Left side	0.058	0.115	0.018	0.022	0.17	0.08	0.08	
	Right side	0.056	0.145	0.021		0.20	0.08	0.06	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.081				1.08	1.08	1.08	
WCDMA IIAnt 1	Front	0.554	0.508	0.025	0.134	1.06	0.58	0.69	
	Back	0.695	0.530	0.729	0.140	1.23	1.42	0.84	
	Left side	0.058	0.115	0.018	0.022	0.17	0.08	0.08	
	Right side	0.029	0.145	0.021		0.17	0.05	0.03	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.106				1.11	1.11	1.11	
LTE Band 71Ant 2	Front	0.335	0.508	0.025	0.134	0.84	0.36	0.47	
	Back	0.475	0.530	0.729	0.140	1.01	1.20	0.62	
	Left side	0.575	0.115	0.018	0.022	0.69	0.59	0.60	
	Right side	0.172	0.145	0.021		0.32	0.19	0.17	
	Top side	0.489	0.726	0.156	0.182	1.22	0.65	0.67	
	Bottom side					0.00	0.00	0.00	
LTE Band 71Ant 1	Front	0.544	0.508	0.025	0.134	1.05	0.57	0.68	
	Back	1.011	0.530	0.729	0.140	1.54	**1.74**	1.15	**#7**
	Left side	0.355	0.115	0.018	0.022	0.47	0.37	0.38	
	Right side	0.520	0.145	0.021		0.67	0.54	0.52	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.780				0.78	0.78	0.78	
LTE Band 12Ant 2	Front	0.312	0.508	0.025	0.134	0.82	0.34	0.45	
	Back	0.586	0.530	0.729	0.140	1.12	1.32	0.73	
	Left side	0.538	0.115	0.018	0.022	0.65	0.56	0.56	
	Right side	0.180	0.145	0.021		0.33	0.20	0.18	
	Top side	0.346	0.726	0.156	0.182	1.07	0.50	0.53	
	Bottom side					0.00	0.00	0.00	

LTE Band 12Ant 1	Front	0.647	0.508	0.025	0.134	1.16	0.67	0.78	
	Back	1.106	0.530	0.729	0.140	**1.64**	**1.84**	1.25	**#8/#9**
	Left side	0.285	0.115	0.018	0.022	0.40	0.30	0.31	
	Right side	0.457	0.145	0.021		0.60	0.48	0.46	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.830				0.83	0.83	0.83	
LTE Band 13Ant 2	Front	0.430	0.508	0.025	0.134	0.94	0.46	0.56	
	Back	0.563	0.530	0.729	0.140	1.09	1.29	0.70	
	Left side	0.376	0.115	0.018	0.022	0.49	0.39	0.40	
	Right side	0.067	0.145	0.021		0.21	0.09	0.07	
	Top side	0.486	0.726	0.156	0.182	1.21	0.64	0.67	
	Bottom side					0.00	0.00	0.00	
LTE Band 13Ant 1	Front	0.555	0.508	0.025	0.134	1.06	0.58	0.69	
	Back	0.924	0.530	0.729	0.140	1.45	**1.65**	1.06	**#10**
	Left side	0.245	0.115	0.018	0.022	0.36	0.26	0.27	
	Right side	0.387	0.145	0.021		0.53	0.41	0.39	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.554				0.55	0.55	0.55	
LTE Band 14Ant 2	Front	0.467	0.508	0.025	0.134	0.98	0.49	0.60	
	Back	0.567	0.530	0.729	0.140	1.10	1.30	0.71	
	Left side	0.359	0.115	0.018	0.022	0.47	0.38	0.38	
	Right side	0.149	0.145	0.021		0.29	0.17	0.15	
	Top side	0.482	0.726	0.156	0.182	1.21	0.64	0.66	
	Bottom side					0.00	0.00	0.00	
LTE Band 14Ant 1	Front	0.636	0.508	0.025	0.134	1.14	0.66	0.77	
	Back	1.182	0.530	0.729	0.140	**1.71**	**1.91**	1.32	**#11/#12**
	Left side	0.237	0.115	0.018	0.022	0.35	0.26	0.26	
	Right side	0.413	0.145	0.021		0.56	0.43	0.41	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.686				0.69	0.69	0.69	
LTE Band 26Ant 2	Front	0.377	0.508	0.025	0.134	0.89	0.40	0.51	
	Back	0.538	0.530	0.729	0.140	1.07	1.27	0.68	
	Left side	0.298	0.115	0.018	0.022	0.41	0.32	0.32	
	Right side	0.082	0.145	0.021		0.23	0.10	0.08	
	Top side	0.357	0.726	0.156	0.182	1.08	0.51	0.54	
	Bottom side					0.00	0.00	0.00	
LTE Band 26Ant 1	Front	0.616	0.508	0.025	0.134	1.12	0.64	0.75	
	Back	1.201	0.530	0.729	0.140	**1.73**	**1.93**	1.34	**#13/#14**
	Left side	0.091	0.115	0.018	0.022	0.21	0.11	0.11	
	Right side	0.160	0.145	0.021		0.31	0.18	0.16	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.378				0.38	0.38	0.38	
LTE Band 66Ant 2	Front	0.304	0.508	0.025	0.134	0.81	0.33	0.44	
	Back	0.478	0.530	0.729	0.140	1.01	1.21	0.62	
	Left side	0.523	0.115	0.018	0.022	0.64	0.54	0.55	
	Right side	0.035	0.145	0.021		0.18	0.06	0.04	
	Top side	0.190	0.726	0.156	0.182	0.92	0.35	0.37	
	Bottom side					0.00	0.00	0.00	
LTE Band 66Ant 1	Front	0.444	0.508	0.025	0.134	0.95	0.47	0.58	
	Back	0.825	0.530	0.729	0.140	1.36	1.55	0.97	
	Left side	0.045	0.115	0.018	0.022	0.16	0.06	0.07	
	Right side	0.060	0.145	0.021		0.21	0.08	0.06	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.260				1.26	1.26	1.26	
LTE Band 25Ant 2	Front	0.243	0.508	0.025	0.134	0.75	0.27	0.38	
	Back	0.525	0.530	0.729	0.140	1.06	1.25	0.67	

	Left side	0.426	0.115	0.018	0.022	0.54	0.44	0.45	
	Right side	0.021	0.145	0.021		0.17	0.04	0.02	
	Top side	0.211	0.726	0.156	0.182	0.94	0.37	0.39	
	Bottom side					0.00	0.00	0.00	
LTE Band 25Ant 1	Front	0.567	0.508	0.025	0.134	1.08	0.59	0.70	
	Back	0.742	0.530	0.729	0.140	1.27	1.47	0.88	
	Left side	0.050	0.115	0.018	0.022	0.17	0.07	0.07	
	Right side	0.018	0.145	0.021		0.16	0.04	0.02	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.180				1.18	1.18	1.18	
LTE Band 30Ant 8	Front	0.188	0.508	0.025	0.134	0.70	0.21	0.32	
	Back	0.293	0.530	0.729	0.140	0.82	1.02	0.43	
	Left side	0.071	0.115	0.018	0.022	0.19	0.09	0.09	
	Right side	0.009	0.145	0.021		0.15	0.03	0.01	
	Top side	0.432	0.726	0.156	0.182	1.16	0.59	0.61	
	Bottom side					0.00	0.00	0.00	
LTE Band 30Ant 7	Front	0.549	0.508	0.025	0.134	1.06	0.57	0.68	
	Back	0.945	0.530	0.729	0.140	1.48	**1.67**	1.09	**#15**
	Left side	0.415	0.115	0.018	0.022	0.53	0.43	0.44	
	Right side	0.086	0.145	0.021		0.23	0.11	0.09	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.987				0.99	0.99	0.99	
LTE Band 7Ant 7	Front	1.051	0.508	0.025	0.134	1.56	1.08	1.19	
	Back	1.233	0.530	0.729	0.140	**1.76**	**1.96**	1.37	**#16/#17**
	Left side	0.675	0.115	0.018	0.022	0.79	0.69	0.70	
	Right side	0.186	0.145	0.021		0.33	0.21	0.19	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.260				1.26	1.26	1.26	
LTE Band 41Ant 8	Front	0.185	0.508	0.025	0.134	0.69	0.21	0.32	
	Back	0.373	0.530	0.729	0.140	0.90	1.10	0.51	
	Left side	0.048	0.115	0.018	0.022	0.16	0.07	0.07	
	Right side	0.020	0.145	0.021		0.17	0.04	0.02	
	Top side	0.591	0.726	0.156	0.182	1.32	0.75	0.77	
	Bottom side					0.00	0.00	0.00	
LTE Band 41Ant 7	Front	0.520	0.508	0.025	0.134	1.03	0.55	0.65	
	Back	0.824	0.530	0.729	0.140	1.35	1.55	0.96	
	Left side	0.424	0.115	0.018	0.022	0.54	0.44	0.45	
	Right side	0.118	0.145	0.021		0.26	0.14	0.12	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.948				0.95	0.95	0.95	
LTE Band 41(HPUE)Ant 8	Front	0.167	0.508	0.025	0.134	0.68	0.19	0.30	
	Back	0.387	0.530	0.729	0.140	0.92	1.12	0.53	
	Left side	0.055	0.115	0.018	0.022	0.17	0.07	0.08	
	Right side	0.027	0.145	0.021		0.17	0.05	0.03	
	Top side	0.606	0.726	0.156	0.182	1.33	0.76	0.79	
	Bottom side					0.00	0.00	0.00	
LTE Band 41(HPUE)Ant 7	Front	0.497	0.508	0.025	0.134	1.01	0.52	0.63	
	Back	0.772	0.530	0.729	0.140	1.30	1.50	0.91	
	Left side	0.379	0.115	0.018	0.022	0.49	0.40	0.40	
	Right side	0.113	0.145	0.021		0.26	0.13	0.11	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.870				0.87	0.87	0.87	
LTE Band 48Ant 4	Front	0.095	0.508	0.025	0.134	0.60	0.12	0.23	
	Back	0.525	0.530	0.729	0.140	1.06	1.25	0.67	
	Left side	0.250	0.115	0.018	0.022	0.37	0.27	0.27	
	Right side	0.019	0.145	0.021		0.16	0.04	0.02	

	Top side	0.094	0.726	0.156	0.182	0.82	0.25	0.28	
	Bottom side					0.00	0.00	0.00	

<5GNR Mode>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed	1+3 Summed	1+4 Summed	Case No
		WWAN	2.4GHz WLAN Ant 3	5GHz WLAN Ant 5	Bluetooth Ant 3				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
FR1 N71Ant 2	Front	0.114	0.508	0.025	0.134	0.62	0.14	0.25	
	Back	0.290	0.530	0.729	0.140	0.82	1.02	0.43	
	Left side	0.447	0.115	0.018	0.022	0.56	0.47	0.47	
	Right side	0.062	0.145	0.021		0.21	0.08	0.06	
	Top side	0.215	0.726	0.156	0.182	0.94	0.37	0.40	
	Bottom side					0.00	0.00	0.00	
FR1 N71Ant 1	Front	0.222	0.508	0.025	0.134	0.73	0.25	0.36	
	Back	0.446	0.530	0.729	0.140	0.98	1.18	0.59	
	Left side	0.144	0.115	0.018	0.022	0.26	0.16	0.17	
	Right side	0.215	0.145	0.021		0.36	0.24	0.22	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.308				0.31	0.31	0.31	
FR1 N12Ant 2	Front	0.256	0.508	0.025	0.134	0.76	0.28	0.39	
	Back	0.390	0.530	0.729	0.140	0.92	1.12	0.53	
	Left side	0.392	0.115	0.018	0.022	0.51	0.41	0.41	
	Right side	0.140	0.145	0.021		0.29	0.16	0.14	
	Top side	0.364	0.726	0.156	0.182	1.09	0.52	0.55	
	Bottom side					0.00	0.00	0.00	
FR1 N14Ant 2	Front	0.376	0.508	0.025	0.134	0.88	0.40	0.51	
	Back	0.510	0.530	0.729	0.140	1.04	1.24	0.65	
	Left side	0.308	0.115	0.018	0.022	0.42	0.33	0.33	
	Right side	0.122	0.145	0.021		0.27	0.14	0.12	
	Top side	0.520	0.726	0.156	0.182	1.25	0.68	0.70	
	Bottom side					0.00	0.00	0.00	
FR1 N26Ant 2	Front	0.437	0.508	0.025	0.134	0.95	0.46	0.57	
	Back	0.605	0.530	0.729	0.140	1.14	1.33	0.75	
	Left side	0.313	0.115	0.018	0.022	0.43	0.33	0.34	
	Right side	0.114	0.145	0.021		0.26	0.14	0.11	
	Top side	0.572	0.726	0.156	0.182	1.30	0.73	0.75	
	Bottom side					0.00	0.00	0.00	
FR1 N5Ant 1	Front	0.459	0.508	0.025	0.134	0.97	0.48	0.59	
	Back	0.806	0.530	0.729	0.140	1.34	1.54	0.95	
	Left side	0.078	0.115	0.018	0.022	0.19	0.10	0.10	
	Right side	0.208	0.145	0.021		0.35	0.23	0.21	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	0.591				0.59	0.59	0.59	
FR1 N70Ant 2	Front	0.173	0.508	0.025	0.134	0.68	0.20	0.31	
	Back	0.234	0.530	0.729	0.140	0.76	0.96	0.37	
	Left side	0.304	0.115	0.018	0.022	0.42	0.32	0.33	
	Right side		0.145	0.021		0.15	0.02	0.00	
	Top side	0.099	0.726	0.156	0.182	0.83	0.26	0.28	
	Bottom side					0.00	0.00	0.00	
FR1 N70Ant 1	Front	0.790	0.508	0.025	0.134	1.30	0.82	0.92	
	Back	0.937	0.530	0.729	0.140	1.47	**1.67**	1.08	**#18**
	Left side	0.064	0.115	0.018	0.022	0.18	0.08	0.09	
	Right side	0.075	0.145	0.021		0.22	0.10	0.08	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.272				1.27	1.27	1.27	

FR1 N66Ant 2	Front	0.330	0.508	0.025	0.134	0.84	0.36	0.46	
	Back	0.578	0.530	0.729	0.140	1.11	1.31	0.72	
	Left side	0.443	0.115	0.018	0.022	0.56	0.46	0.47	
	Right side		0.145	0.021		0.15	0.02	0.00	
	Top side	0.221	0.726	0.156	0.182	0.95	0.38	0.40	
	Bottom side					0.00	0.00	0.00	
FR1 N66Ant 1	Front	0.641	0.508	0.025	0.134	1.15	0.67	0.78	
	Back	0.772	0.530	0.729	0.140	1.30	1.50	0.91	
	Left side	0.064	0.115	0.018	0.022	0.18	0.08	0.09	
	Right side	0.062	0.145	0.021		0.21	0.08	0.06	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.122				1.12	1.12	1.12	
FR1 N25Ant 2	Front	0.297	0.508	0.025	0.134	0.81	0.32	0.43	
	Back	0.617	0.530	0.729	0.140	1.15	1.35	0.76	
	Left side	0.378	0.115	0.018	0.022	0.49	0.40	0.40	
	Right side		0.145	0.021		0.15	0.02	0.00	
	Top side	0.266	0.726	0.156	0.182	0.99	0.42	0.45	
	Bottom side					0.00	0.00	0.00	
FR1 N25Ant 1	Front	0.656	0.508	0.025	0.134	1.16	0.68	0.79	
	Back	0.867	0.530	0.729	0.140	1.40	**1.60**	1.01	**#19**
	Left side	0.087	0.115	0.018	0.022	0.20	0.11	0.11	
	Right side		0.145	0.021		0.15	0.02	0.00	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.251				1.25	1.25	1.25	
FR1 N30Ant 8	Front	0.215	0.508	0.025	0.134	0.72	0.24	0.35	
	Back	0.425	0.530	0.729	0.140	0.96	1.15	0.57	
	Left side	0.081	0.115	0.018	0.022	0.20	0.10	0.10	
	Right side	0.031	0.145	0.021		0.18	0.05	0.03	
	Top side	0.606	0.726	0.156	0.182	1.33	0.76	0.79	
	Bottom side					0.00	0.00	0.00	
FR1 N30Ant 7	Front	0.545	0.508	0.025	0.134	1.05	0.57	0.68	
	Back	1.070	0.530	0.729	0.140	**1.60**	**1.80**	1.21	**#20#/21**
	Left side	0.449	0.115	0.018	0.022	0.56	0.47	0.47	
	Right side	0.114	0.145	0.021		0.26	0.14	0.11	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.239				1.24	1.24	1.24	
FR1 N41Ant 6	Front	0.012	0.508	0.025	0.134	0.52	0.04	0.15	
	Back	0.615	0.530	0.729	0.140	1.15	1.34	0.76	
	Left side	0.124	0.115	0.018	0.022	0.24	0.14	0.15	
	Right side	0.005	0.145	0.021		0.15	0.03	0.01	
	Top side	0.014	0.726	0.156	0.182	0.74	0.17	0.20	
	Bottom side					0.00	0.00	0.00	
FR1 N41(HPUE)Ant 7	Front	0.890	0.508	0.025	0.134	1.40	0.92	1.02	
	Back	1.184	0.530	0.729	0.140	**1.71**	**1.91**	1.32	**#22/#23**
	Left side	0.563	0.115	0.018	0.022	0.68	0.58	0.59	
	Right side	0.174	0.145	0.021		0.32	0.20	0.17	
	Top side		0.726	0.156	0.182	0.73	0.16	0.18	
	Bottom side	1.257				1.26	1.26	1.26	
FR1 N41(HPUE)Ant 8	Front	0.195	0.508	0.025	0.134	0.70	0.22	0.33	
	Back	0.418	0.530	0.729	0.140	0.95	1.15	0.56	
	Left side	0.066	0.115	0.018	0.022	0.18	0.08	0.09	
	Right side		0.145	0.021		0.15	0.02	0.00	
	Top side	0.616	0.726	0.156	0.182	1.34	0.77	0.80	
	Bottom side					0.00	0.00	0.00	
FR1 N41Ant 9	Front	0.038	0.508	0.025	0.134	0.55	0.06	0.17	
	Back	0.618	0.530	0.729	0.140	1.15	1.35	0.76	

	Left side	0.024	0.115	0.018	0.022	0.14	0.04	0.05	
	Right side	0.007	0.145	0.021		0.15	0.03	0.01	
	Top side	0.054	0.726	0.156	0.182	0.78	0.21	0.24	
	Bottom side					0.00	0.00	0.00	
FR1 N77(HPUE)Ant 4	Front	0.057	0.508	0.025	0.134	0.57	0.08	0.19	
	Back	0.610	0.530	0.729	0.140	1.14	1.34	0.75	
	Left side	0.183	0.115	0.018	0.022	0.30	0.20	0.21	
	Right side	0.005	0.145	0.021		0.15	0.03	0.01	
	Top side	0.035	0.726	0.156	0.182	0.76	0.19	0.22	
	Bottom side					0.00	0.00	0.00	
FR1 N77Ant 5	Front	0.029	0.508	0.025	0.134	0.54	0.05	0.16	
	Back	0.596	0.530	0.729	0.140	1.13	1.33	0.74	
	Left side	0.025	0.115	0.018	0.022	0.14	0.04	0.05	
	Right side	0.032	0.145	0.021		0.18	0.05	0.03	
	Top side	0.107	0.726	0.156	0.182	0.83	0.26	0.29	
	Bottom side					0.00	0.00	0.00	
FR1 N77Ant 6	Front	0.004	0.508	0.025	0.134	0.51	0.03	0.14	
	Back	0.608	0.530	0.729	0.140	1.14	1.34	0.75	
	Left side	0.025	0.115	0.018	0.022	0.14	0.04	0.05	
	Right side	0.006	0.145	0.021		0.15	0.03	0.01	
	Top side	0.004	0.726	0.156	0.182	0.73	0.16	0.19	
	Bottom side					0.00	0.00	0.00	
FR1 N77Ant 10	Front	0.011	0.508	0.025	0.134	0.52	0.04	0.15	
	Back	0.590	0.530	0.729	0.140	1.12	1.32	0.73	
	Left side	0.003	0.115	0.018	0.022	0.12	0.02	0.03	
	Right side	0.052	0.145	0.021		0.20	0.07	0.05	
	Top side	0.014	0.726	0.156	0.182	0.74	0.17	0.20	
	Bottom side					0.00	0.00	0.00	

17.4 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	Case No
		WWAN	2.4GHz WLAN Ant 3	5GHz WLAN Ant 5	Bluetooth Ant 3				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
GSM850 Ant 1	Front	0.631	0.515	0.025	0.134	1.15	0.66	0.77	
	Back	1.249	0.747	0.729	0.197	**2.00**	**1.98**	**1.45**	**#24/#25**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset	1.092				1.09	1.09	1.09	
GSM1900 Ant 1	Front	0.514	0.515	0.025	0.134	1.03	0.54	0.65	
	Back	0.837	0.747	0.729	0.197	1.58	1.57	1.03	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
WCDMA V Ant 1	Front	0.606	0.515	0.025	0.134	1.12	0.63	0.74	
	Back	1.113	0.747	0.729	0.197	**1.86**	**1.84**	1.31	**#26#/27**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
WCDMA IV Ant 1	Front	0.612	0.515	0.025	0.134	1.13	0.64	0.75	
	Back	0.813	0.747	0.729	0.197	1.56	1.54	1.01	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
WCDMA II Ant 1	Front	0.554	0.515	0.025	0.134	1.07	0.58	0.69	
	Back	0.930	0.747	0.729	0.197	**1.68**	**1.66**	1.13	**# 28/#29**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 71 Ant 2	Front	0.335	0.515	0.025	0.134	0.85	0.36	0.47	
	Back	0.475	0.747	0.729	0.197	1.22	1.20	0.67	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 71 Ant 1	Front	0.544	0.515	0.025	0.134	1.06	0.57	0.68	
	Back	1.011	0.747	0.729	0.197	**1.76**	**1.74**	1.21	**#30/#31**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 12 Ant 2	Front	0.312	0.515	0.025	0.134	0.83	0.34	0.45	
	Back	0.586	0.747	0.729	0.197	1.33	1.32	0.78	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 12 Ant 1	Front	0.647	0.515	0.025	0.134	1.16	0.67	0.78	
	Back	1.106	0.747	0.729	0.197	**1.85**	**1.84**	1.30	**#32/33**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 13 Ant 2	Front	0.430	0.515	0.025	0.134	0.95	0.46	0.56	
	Back	0.563	0.747	0.729	0.197	1.31	1.29	0.76	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 13 Ant 1	Front	0.555	0.515	0.025	0.134	1.07	0.58	0.69	
	Back	0.924	0.747	0.729	0.197	**1.67**	**1.65**	1.12	**#34/#35**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 14 Ant 2	Front	0.467	0.515	0.025	0.134	0.98	0.49	0.60	
	Back	0.567	0.747	0.729	0.197	1.31	1.30	0.76	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 14 Ant 1	Front	0.636	0.515	0.025	0.134	1.15	0.66	0.77	

	Back	1.182	0.747	0.729	0.197	**1.93**	**1.91**	1.38	**#36/#37**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 26 Ant 2	Front	0.377	0.515	0.025	0.134	0.89	0.40	0.51	
	Back	0.538	0.747	0.729	0.197	1.29	1.27	0.74	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 26 Ant 1	Front	0.616	0.515	0.025	0.134	1.13	0.64	0.75	
	Back	1.201	0.747	0.729	0.197	**1.95**	**1.93**	1.40	**#38/#39**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset	1.050				1.05	1.05	1.05	
LTE Band 66 Ant 2	Front	0.304	0.515	0.025	0.134	0.82	0.33	0.44	
	Back	0.540	0.747	0.729	0.197	1.29	1.27	0.74	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 66 Ant 1	Front	0.444	0.515	0.025	0.134	0.96	0.47	0.58	
	Back	0.825	0.747	0.729	0.197	1.57	1.55	1.02	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 25 Ant 2	Front	0.243	0.515	0.025	0.134	0.76	0.27	0.38	
	Back	0.525	0.747	0.729	0.197	1.27	1.25	0.72	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 25 Ant 1	Front	0.567	0.515	0.025	0.134	1.08	0.59	0.70	
	Back	0.840	0.747	0.729	0.197	**1.59**	1.57	1.04	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 30 Ant 8	Front	0.188	0.515	0.025	0.134	0.70	0.21	0.32	
	Back	0.293	0.747	0.729	0.197	1.04	1.02	0.49	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 30 Ant 7	Front	0.549	0.515	0.025	0.134	1.06	0.57	0.68	
	Back	0.945	0.747	0.729	0.197	**1.69**	**1.67**	1.14	**#40/#41**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 7 Ant 7	Front	1.051	0.515	0.025	0.134	1.57	1.08	1.19	
	Back	1.233	0.747	0.729	0.197	**1.98**	**1.96**	1.43	**#42/#43**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset	1.184				1.18	1.18	1.18	
LTE Band 41 Ant 8	Front	0.185	0.515	0.025	0.134	0.70	0.21	0.32	
	Back	0.423	0.747	0.729	0.197	1.17	1.15	0.62	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 41 Ant 7	Front	0.520	0.515	0.025	0.134	1.04	0.55	0.65	
	Back	0.824	0.747	0.729	0.197	1.57	1.55	1.02	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 41(HPUE) Ant 8	Front	0.167	0.515	0.025	0.134	0.68	0.19	0.30	
	Back	0.391	0.747	0.729	0.197	1.14	1.12	0.59	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 41(HPUE) Ant 7	Front	0.497	0.515	0.025	0.134	1.01	0.52	0.63	
	Back	0.772	0.747	0.729	0.197	1.52	1.50	0.97	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
LTE Band 48 Ant 4	Front	0.095	0.515	0.025	0.134	0.61	0.12	0.23	

	Back	0.525	0.747	0.729	0.197	1.27	1.25	0.72	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	

<Sensor off>

WWAN Band	Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 3	5GHz WLAN Ant 5		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850 Ant 1	Front	0.192	0.107		0.30	0.19
	Back	0.149	0.091	0.380	0.24	0.53
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
GSM1900 Ant 1	Front	0.351	0.107		0.46	0.35
	Back	0.335	0.091	0.380	0.43	0.72
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
WCDMA V Ant 1	Front	0.184	0.107		0.29	0.18
	Back	0.127	0.091	0.380	0.22	0.51
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
WCDMA IV Ant 1	Front	0.428	0.107		0.54	0.43
	Back	0.363	0.091	0.380	0.45	0.74
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
WCDMA II Ant 1	Front	0.348	0.107		0.46	0.35
	Back	0.494	0.091	0.380	0.59	0.87
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 12 Ant 2	Front	0.103	0.107		0.21	0.10
	Back	0.092	0.091	0.380	0.18	0.47
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 13 Ant 2	Front	0.131	0.107		0.24	0.13
	Back	0.094	0.091	0.380	0.19	0.47
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 14 Ant 2	Front	0.152	0.107		0.26	0.15
	Back	0.123	0.091	0.380	0.21	0.50
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 26 Ant 2	Front	0.058	0.107		0.17	0.06
	Back	0.067	0.091	0.380	0.16	0.45
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 26 Ant 1	Front	0.084	0.107		0.19	0.08
	Back	0.153	0.091	0.380	0.24	0.53
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 66 Ant 2	Front	0.045	0.107		0.15	0.05
	Back	0.043	0.091	0.380	0.13	0.42
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 66 Ant 1	Front	0.430	0.107		0.54	0.43
	Back	0.362	0.091	0.380	0.45	0.74
	Front with Headset				0.00	0.00

	Back with Headset				0.00	0.00
LTE Band 25 Ant 2	Front	0.132	0.107		0.24	0.13
	Back	0.110	0.091	0.380	0.20	0.49
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 25 Ant 1	Front	0.499	0.107		0.61	0.50
	Back	0.408	0.091	0.380	0.50	0.79
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 30 Ant 8	Front	0.170	0.107		0.28	0.17
	Back	0.205	0.091	0.380	0.30	0.59
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 30 Ant 7	Front	0.151	0.107		0.26	0.15
	Back	0.122	0.091	0.380	0.21	0.50
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 7 Ant 7	Front	0.240	0.107		0.35	0.24
	Back	0.167	0.091	0.380	0.26	0.55
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 41 Ant 8	Front	0.109	0.107		0.22	0.11
	Back	0.127	0.091	0.380	0.22	0.51
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 41 Ant 7	Front	0.200	0.107		0.31	0.20
	Back	0.163	0.091	0.380	0.25	0.54
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 41(HPUE) Ant 8	Front	0.128	0.107		0.24	0.13
	Back	0.156	0.091	0.380	0.25	0.54
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 41(HPUE) Ant 7	Front	0.250	0.107		0.36	0.25
	Back	0.204	0.091	0.380	0.30	0.58
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
LTE Band 48 Ant 4	Front	0.091	0.107		0.20	0.09
	Back	0.283	0.091	0.380	0.37	0.66
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00

<5GNR Mode>

WWAN Band	Exposure Position	1 WWAN 1g SAR (W/kg)	2 2.4GHz WLAN Ant 3 1g SAR (W/kg)	3 5GHz WLAN Ant 5 1g SAR (W/kg)	4 Bluetooth Ant 3 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	Case No
FR1 N71 Ant 2	Front	0.114	0.515	0.025	0.134	0.63	0.14	0.25	
	Back	0.290	0.747	0.729	0.197	1.04	1.02	0.49	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N71 Ant 1	Front	0.222	0.515	0.025	0.134	0.74	0.25	0.36	
	Back	0.446	0.747	0.729	0.197	1.19	1.18	0.64	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N12 Ant 2	Front	0.256	0.515	0.025	0.134	0.77	0.28	0.39	
	Back	0.390	0.747	0.729	0.197	1.14	1.12	0.59	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N14 Ant 2	Front	0.376	0.515	0.025	0.134	0.89	0.40	0.51	
	Back	0.510	0.747	0.729	0.197	1.26	1.24	0.71	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N26 Ant 2	Front	0.437	0.515	0.025	0.134	0.95	0.46	0.57	
	Back	0.605	0.747	0.729	0.197	1.35	1.33	0.80	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N5 Ant 1	Front	0.459	0.515	0.025	0.134	0.97	0.48	0.59	
	Back	0.806	0.747	0.729	0.197	1.55	1.54	1.00	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N70 Ant 2	Front	0.173	0.515	0.025	0.134	0.69	0.20	0.31	
	Back	0.234	0.747	0.729	0.197	0.98	0.96	0.43	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N70 Ant 1	Front	0.790	0.515	0.025	0.134	1.31	0.82	0.92	
	Back	0.937	0.747	0.729	0.197	**1.68**	**1.67**	1.13	**#44/#45**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N66 Ant 2	Front	0.330	0.515	0.025	0.134	0.85	0.36	0.46	
	Back	0.578	0.747	0.729	0.197	1.33	1.31	0.78	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N66 Ant 1	Front	0.641	0.515	0.025	0.134	1.16	0.67	0.78	
	Back	0.772	0.747	0.729	0.197	1.52	1.50	0.97	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N25 Ant 2	Front	0.297	0.515	0.025	0.134	0.81	0.32	0.43	
	Back	0.617	0.747	0.729	0.197	1.36	1.35	0.81	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N25 Ant 1	Front	0.656	0.515	0.025	0.134	1.17	0.68	0.79	
	Back	0.867	0.747	0.729	0.197	**1.61**	**1.60**	1.06	**#46/#47**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N30 Ant 8	Front	0.215	0.515	0.025	0.134	0.73	0.24	0.35	
	Back	0.425	0.747	0.729	0.197	1.17	1.15	0.62	

	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N30 Ant 7	Front	0.545	0.515	0.025	0.134	1.06	0.57	0.68	
	Back	1.070	0.747	0.729	0.197	**1.82**	**1.80**	1.27	**#48/#49**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N41 Ant 6	Front	0.012	0.515	0.025	0.134	0.53	0.04	0.15	
	Back	0.615	0.747	0.729	0.197	1.36	1.34	0.81	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N41(HPUE) Ant 7	Front	0.890	0.515	0.025	0.134	1.41	0.92	1.02	
	Back	1.184	0.747	0.729	0.197	**1.93**	**1.91**	1.38	**#50/#51**
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N41(HPUE) Ant 8	Front	0.195	0.515	0.025	0.134	0.71	0.22	0.33	
	Back	0.418	0.747	0.729	0.197	1.17	1.15	0.62	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N41 Ant 9	Front	0.038	0.515	0.025	0.134	0.55	0.06	0.17	
	Back	0.618	0.747	0.729	0.197	1.37	1.35	0.82	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N77(HPUE) Ant 4	Front	0.057	0.515	0.025	0.134	0.57	0.08	0.19	
	Back	0.610	0.747	0.729	0.197	1.36	1.34	0.81	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N77 Ant 5	Front	0.029	0.515	0.025	0.134	0.54	0.05	0.16	
	Back	0.596	0.747	0.729	0.197	1.34	1.33	0.79	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N77 Ant 6	Front	0.004	0.515	0.025	0.134	0.52	0.03	0.14	
	Back	0.608	0.747	0.729	0.197	1.36	1.34	0.81	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	
FR1 N77 Ant 10	Front	0.011	0.515	0.025	0.134	0.53	0.04	0.15	
	Back	0.590	0.747	0.729	0.197	1.34	1.32	0.79	
	Front with Headset					0.00	0.00	0.00	
	Back with Headset					0.00	0.00	0.00	

<Sensor off>

WWAN Band	Exposure Position	1	2	3	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 3	5GHz WLAN Ant 5		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
FR1 N70 Ant 1	Front	0.249	0.107		0.36	0.25
	Back	0.229	0.091	0.380	0.32	0.61
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N66 Ant 2	Front	0.269	0.107		0.38	0.27
	Back	0.250	0.091	0.380	0.34	0.63
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N66 Ant 1	Front	0.277	0.107		0.38	0.28
	Back	0.258	0.091	0.380	0.35	0.64
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N25 Ant 2	Front	0.080	0.107		0.19	0.08
	Back		0.091	0.380	0.09	0.38
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N25 Ant 1	Front	0.311	0.107		0.42	0.31
	Back	0.319	0.091	0.380	0.41	0.70
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N30 Ant 8	Front	0.157	0.107		0.26	0.16
	Back	0.186	0.091	0.380	0.28	0.57
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N30 Ant 7	Front	0.146	0.107		0.25	0.15
	Back	0.123	0.091	0.380	0.21	0.50
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N41 Ant 6	Front	0.006	0.107		0.11	0.01
	Back	0.036	0.091	0.380	0.13	0.42
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N41(HPUE) Ant 7	Front	0.406	0.107		0.51	0.41
	Back	0.329	0.091	0.380	0.42	0.71
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N41(HPUE) Ant 8	Front	0.288	0.107		0.40	0.29
	Back	0.292	0.091	0.380	0.38	0.67
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N41 Ant 9	Front	0.017	0.107		0.12	0.02
	Back	0.072	0.091	0.380	0.16	0.45
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N77(HPUE) Ant 4	Front	0.177	0.107		0.28	0.18
	Back	0.930	0.091	0.380	1.02	1.31
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N77 Ant 5	Front	0.012	0.107		0.12	0.01
	Back	0.402	0.091	0.380	0.49	0.78

	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N77 Ant 6	Front		0.107		0.11	0.00
	Back	0.170	0.091	0.380	0.26	0.55
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00
FR1 N77 Ant 10	Front		0.107		0.11	0.00
	Back	0.275	0.091	0.380	0.37	0.66
	Front with Headset				0.00	0.00
	Back with Headset				0.00	0.00

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	3	1+3 Summed 10g SAR (W/kg)	Case No
		WWAN	5GHz WLAN Ant 5		
		10g SAR (W/kg)	10g SAR (W/kg)		
GSM850 Ant 1	Front		0.028	0.03	
	Back	1.819	1.694	3.51	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
GSM1900 Ant 1	Front	2.033	0.028	2.06	
	Back	2.884	1.694	**4.58**	**#52**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	3.151		3.15	
WCDMA V Ant 1	Front		0.028	0.03	
	Back	1.784	1.694	3.48	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
WCDMA IV Ant 1	Front	2.896	0.028	2.92	
	Back	3.152	1.694	**4.85**	**#55**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	2.920		2.92	
WCDMA II Ant 1	Front	2.573	0.028	2.60	
	Back	2.843	1.694	**4.54**	**#58**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	3.137		3.14	
LTE Band 26 Ant 1	Front		0.028	0.03	
	Back	2.370	1.694	**4.06**	**#59**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
LTE Band 66 Ant 2	Front		0.028	0.03	
	Back	0.863	1.694	2.56	
	Left side	1.464	0.026	1.49	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
LTE Band 66 Ant 1	Front	1.642	0.028	1.67	
	Back	3.031	1.694	**4.73**	**#61**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	

	Bottom side	3.158		3.16	
LTE Band 25 Ant 2	Front		0.028	0.03	
	Back	1.044	1.694	2.74	
	Left side	1.469	0.026	1.50	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
LTE Band 25 Ant 1	Front	1.741	0.028	1.77	
	Back	2.686	1.694	**4.38**	**#62**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	2.699		2.70	
LTE Band 30 Ant 8	Front	0.551	0.028	0.58	
	Back	1.093	1.694	2.79	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side	1.259	0.364	1.62	
	Bottom side			0.00	
LTE Band 30 Ant 7	Front		0.028	0.03	
	Back	2.670	1.694	**4.36**	**#63**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	2.104		2.10	
LTE Band 7 Ant 7	Front	2.190	0.028	2.22	
	Back	2.987	1.694	**4.68**	**#66**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	1.808		1.81	
LTE Band 41 Ant 8	Front		0.028	0.03	
	Back	1.110	1.694	2.80	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side	1.386	0.364	1.75	
	Bottom side			0.00	
LTE Band 41 Ant 7	Front		0.028	0.03	
	Back	2.904	1.694	**4.60**	**#67**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	1.892		1.89	
LTE Band 41(HPUE) Ant 8	Front	0.625	0.028	0.65	
	Back	1.116	1.694	2.81	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side	1.356	0.364	1.72	
	Bottom side			0.00	
LTE Band 41(HPUE) Ant 7	Front	2.390	0.028	2.42	
	Back	3.008	1.694	**4.70**	**#69**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	1.882		1.88	
LTE Band 48 Ant 4	Front		0.028	0.03	

	Back	1.565	1.694	3.26	
	Left side	0.475	0.026	0.50	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	

<5GNR Mode>

WWAN Band	Exposure Position	1 WWAN 10g SAR (W/kg)	3 5GHz WLAN Ant 5 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)	Case No
FR1 N70 Ant 1	Front	2.286	0.028	2.31	
	Back	3.089	1.694	**4.78**	**#80**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	3.113		3.11	
FR1 N66 Ant 1	Front	2.015	0.028	2.04	
	Back	2.707	1.694	**4.40**	**#70**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	3.152		3.15	
FR1 N25 Ant 2	Front		0.028	0.03	
	Back	1.408	1.694	3.10	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
FR1 N25 Ant 1	Front	2.475	0.028	2.50	
	Back	2.779	1.694	**4.47**	**#72**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	3.072		3.07	
FR1 N30 Ant 8	Front	0.652	0.028	0.68	
	Back	1.093	1.694	2.79	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side	1.472	0.364	1.84	
	Bottom side			0.00	
FR1 N30 Ant 7	Front		0.028	0.03	
	Back	2.934	1.694	**4.63**	**#74**
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	2.032		2.03	
FR1 N41 Ant 6	Front		0.028	0.03	
	Back	2.024	1.694	3.72	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
FR1 N41(HPUE) Ant 7	Front	2.353	0.028	2.38	
	Back	3.078	1.694	**4.77**	**#77**
	Left side	2.706	0.026	2.73	

	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side	1.985		1.99	
FR1 N41(HPUE) Ant 8	Front	0.729	0.028	0.76	
	Back	1.238	1.694	2.93	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side	1.479	0.364	1.84	
	Bottom side			0.00	
FR1 N41 Ant 9	Front		0.028	0.03	
	Back	2.019	1.694	3.71	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	
FR1 N77(HPUE) Ant 4	Front	1.180	0.028	1.21	
	Back	1.344	1.694	3.04	
	Left side	0.386	0.026	0.41	
	Right side		0.048	0.05	
	Top side	1.433	0.364	1.80	
	Bottom side			0.00	
FR1 N77 Ant 6	Front		0.028	0.03	
	Back	2.198	1.694	**3.89**	
	Left side		0.026	0.03	
	Right side		0.048	0.05	
	Top side		0.364	0.36	
	Bottom side			0.00	

<Sensor off>

WWAN Band	Exposure Position	1 WWAN 10g SAR (W/kg)	3 5GHz WLAN Ant 5 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)
GSM1900 Ant 1	Front	1.747		1.75
	Back	1.582	1.522	3.10
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.275		1.28
WCDMA IV Ant 1	Front	2.251		2.25
	Back	1.715	1.522	3.24
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.275		1.28
WCDMA II Ant 1	Front	2.462		2.46
	Back	2.184	1.522	3.71
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.765		1.77
LTE Band 66 Ant 2	Front			0.00
	Back	0.072	1.522	1.59
	Left side	0.219		0.22
	Right side			0.00
	Top side			0.00
	Bottom side			0.00
LTE Band 66 Ant 1	Front	2.172		2.17
	Back	1.748	1.522	3.27
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.324		1.32
LTE Band 25 Ant 2	Front			0.00
	Back	0.403	1.522	1.93
	Left side	0.228		0.23
	Right side			0.00
	Top side			0.00
	Bottom side			0.00
LTE Band 25 Ant 1	Front	2.201		2.20
	Back	1.652	1.522	3.17
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.254		1.25
LTE Band 30 Ant 8	Front	0.607		0.61
	Back	0.712	1.522	2.23
	Left side			0.00
	Right side			0.00
	Top side	0.776		0.78
	Bottom side			0.00
LTE Band 7 Ant 7	Front	0.945		0.95
	Back	0.666	1.522	2.19
	Left side			0.00

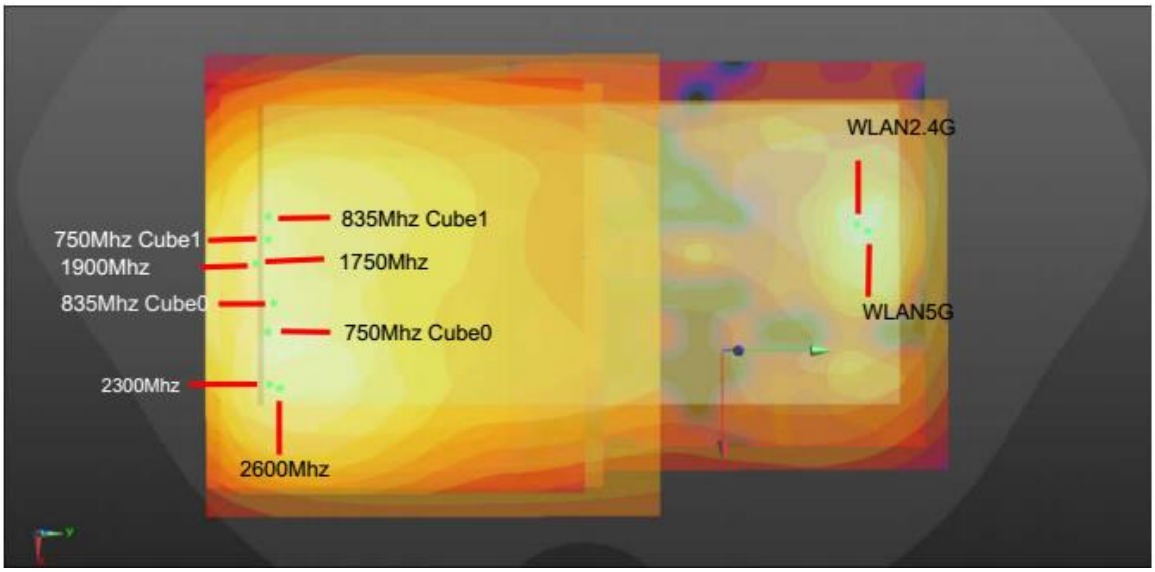
	Right side			0.00
	Top side			0.00
	Bottom side	0.493		0.49
LTE Band 41 Ant 8	Front			0.00
	Back	0.429	1.522	1.95
	Left side			0.00
	Right side			0.00
	Top side	0.545		0.55
	Bottom side			0.00
LTE Band 41(HPUE) Ant 8	Front	0.423		0.42
	Back	0.538	1.522	2.06
	Left side			0.00
	Right side			0.00
	Top side	0.604		0.60
	Bottom side			0.00
LTE Band 41(HPUE) Ant 7	Front	1.112		1.11
	Back	0.836	1.522	2.36
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	0.572		0.57
LTE Band 48 Ant 4	Front			0.00
	Back	0.372	1.522	1.89
	Left side	0.318		0.32
	Right side			0.00
	Top side			0.00
	Bottom side			0.00
FR1 N70 Ant 1	Front	1.584		1.58
	Back	1.169	1.522	2.69
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	0.879		0.88
FR1 N66 Ant 1	Front	1.416		1.42
	Back	1.287	1.522	2.81
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.028		1.03
FR1 N25 Ant 2	Front			0.00
	Back	0.198	1.522	1.72
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side			0.00
FR1 N25 Ant 1	Front	1.743		1.74
	Back	1.328	1.522	2.85
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	1.094		1.09
FR1 N30 Ant 8	Front	0.510		0.51
	Back	0.618	1.522	2.14
	Left side			0.00
	Right side			0.00
	Top side	0.588		0.59

	Bottom side			0.00
FR1 N30 Ant 7	Front			0.00
	Back	0.459	1.522	1.98
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	0.339		0.34
FR1 N41(HPUE) Ant 7	Front	1.975		1.98
	Back	1.317	1.522	2.84
	Left side			0.00
	Right side			0.00
	Top side			0.00
	Bottom side	0.930		0.93
FR1 N41(HPUE) Ant 8	Front	0.918		0.92
	Back	0.906	1.522	2.43
	Left side			0.00
	Right side			0.00
	Top side	1.081		1.08
	Bottom side			0.00
FR1 N77(HPUE)Ant 4	Front			0.00
	Back	0.895	1.522	2.42
	Left side	0.620		0.62
	Right side			0.00
	Top side			0.00
	Bottom side			0.00

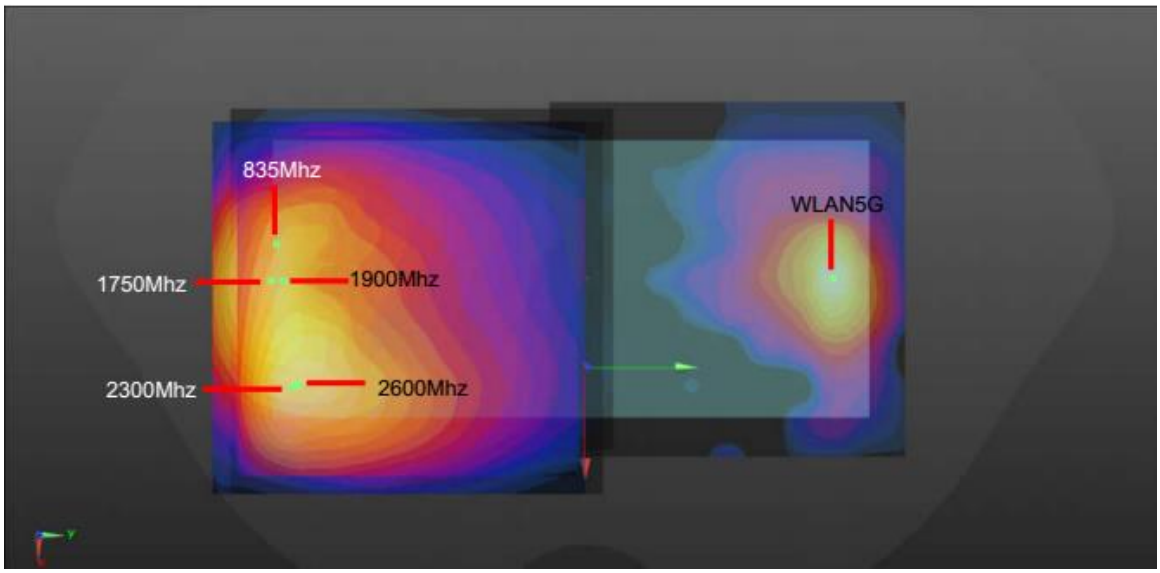
17.6 SPLSR Evaluation and Analysis

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 [(x1−x2)2 + (y1−y2)2 + (z1−z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. SPLSR = (SAR1 + SAR2)1.5 / (min. separation distance, mm). If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.



WWAN+WLAN2.4GHz/5GHz_Back 5mm



WWAN+WLAN5GHz_Back 0mm

For Hotspot											
	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 1	GSM850	Back	1.249	5mm	-0.011	-0.087	-0.205	171.8	1.78	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 2	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	GSM850	Back	1.249	5mm	-0.011	-0.087	-0.205	164.4	1.98	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 3	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V	Back	1.113	5mm	-0.0125	-0.087	-0.206	171.5	1.64	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 4	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	WCDMA V	Back	1.113	5mm	-0.0125	-0.087	-0.206	164.2	1.84	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 7	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 71 Cube 0	Back	1.011	5mm	-0.005	-0.0835	-0.206	161.8	1.74	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
	LTE Band 71 Cube 1	Back	0.857	5mm	-0.013	-0.0915	-0.206	168.6	1.59	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 8	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 12	Back	1.106	5mm	-0.006	-0.076	-0.205	162.0	1.64	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 9	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 12	Back	1.106	5mm	-0.006	-0.076	-0.205	154.2	1.84	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 10	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 13	Back	0.924	5mm	-0.0045	-0.0855	-0.204	163.9	1.65	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 11	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 14	Back	1.182	5mm	-0.0125	-0.0855	-0.206	170.1	1.71	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 12	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 14	Back	1.182	5mm	-0.0125	-0.0855	-0.206	162.7	1.91	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 13	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 26 Cube 0	Back	1.201	5mm	-0.0125	-0.09	-0.206	174.5	1.73	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
	LTE Band 26 Cube 1	Back	1.009	5mm	-0.019	-0.0915	-0.206	175.0	1.54	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 14	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 26 Cube 0	Back	1.201	5mm	-0.0125	-0.09	-0.206	167.2	1.93	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
	LTE Band 26 Cube 1	Back	1.009	5mm	-0.019	-0.0915	-0.206	168.0	1.74	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m) X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 15	LTE Band 30	Back	0.945	5mm	-0.0036	-0.0774	-0.207	156.0	1.67	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 16	LTE Band 7	Back	1.233	5mm	0.0044	-0.0804	-0.206	168.9	1.76	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 17	LTE Band 7	Back	1.233	5mm	0.0044	-0.0804	-0.206	160.6	1.96	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 18	FR1 N70	Back	0.937	5mm	-0.023	-0.0865	-0.206	162.8	1.67	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 19	FR1 N25	Back	0.867	5mm	-0.023	-0.0865	-0.206	162.8	1.60	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 20	FR1 N30	Back	1.07	5mm	0.0036	-0.0832	-0.207	171.3	1.60	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 21	FR1 N30	Back	1.07	5mm	0.0036	-0.0832	-0.207	163.1	1.80	0.01	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				
Case 22	FR1 N41(HPUE)	Back	1.184	5mm	0.0053	-0.0812	-0.206	169.9	1.71	0.01	Not required
	WLAN 2.4G		0.53	5mm	-0.0418	0.082	-0.208				
Case 23	FR1 N41(HPUE)	Back	1.184	5mm	0.0053	-0.0812	-0.206	161.6	1.91	0.02	Not required
	WLAN 5G		0.729	5mm	-0.032	0.076	-0.208				

For Body-worn

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m) X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 24	GSM850	Back	1.249	5mm	-0.011	-0.087	-0.205	167.5	2.00	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 25	GSM850	Back	1.249	5mm	-0.011	-0.087	-0.205	161.3	1.98	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 26	WCDMA V	Back	1.113	5mm	-0.0125	-0.087	-0.206	167.2	1.86	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 27	WCDMA V	Back	1.113	5mm	-0.0125	-0.087	-0.206	161.1	1.84	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				

	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m) X	Y	Z	3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
Case 28	WCDMA II	Back	0.93	5mm	-0.023	-0.0885	-0.206	167.6	1.68	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 29	WCDMA II	Back	0.93	5mm	-0.023	-0.0885	-0.206	161.7	1.66	0.01	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 30	LTE Band 71	Back	1.011	5mm	-0.005	-0.0835	-0.206	165.0	1.76	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
	LTE Band 71	Back	0.857	5mm	-0.013	-0.0915	-0.206	171.6	1.60	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 31	LTE Band 71	Back	1.011	5mm	-0.005	-0.0835	-0.206	158.6	1.74	0.01	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 32	LTE Band 12	Back	1.106	5mm	-0.006	-0.076	-0.205	157.5	1.85	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 33	LTE Band 12	Back	1.106	5mm	-0.006	-0.076	-0.205	151.1	1.84	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 34	LTE Band 13	Back	0.924	5mm	-0.0045	-0.0855	-0.204	167.1	1.67	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 35	LTE Band 13	Back	0.924	5mm	-0.0045	-0.0855	-0.204	160.7	1.65	0.01	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 36	LTE Band 14	Back	1.182	5mm	-0.0125	-0.0855	-0.206	165.7	1.93	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 37	LTE Band 14	Back	1.182	5mm	-0.0125	-0.0855	-0.206	159.6	1.91	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 38	LTE Band 26 Cube 0	Back	1.201	5mm	-0.0125	-0.09	-0.206	170.2	1.95	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
	LTE Band 26 Cube 1	Back	1.201	5mm	-0.019	-0.0915	-0.206	170.9	1.95	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 39	LTE Band 26 Cube 0	Back	1.201	5mm	-0.0125	-0.09	-0.206	164.0	1.93	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
	LTE Band 26 Cube 1	Back	1.201	5mm	-0.019	-0.0915	-0.206	164.9	1.93	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				

	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 40	LTE Band 30	Back	0.945	5mm	-0.0036	-0.0774	-0.207	159.3	1.69	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 41	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 30	Back	0.945	5mm	-0.0036	-0.0774	-0.207	152.9	1.67	0.01	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 42	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 7	Back	1.233	5mm	0.0044	-0.0804	-0.206	164.0	1.98	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 43	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	LTE Band 7	Back	1.233	5mm	0.0044	-0.0804	-0.206	157.4	1.96	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 44	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N70	Back	0.937	5mm	-0.023	-0.0865	-0.206	165.6	1.68	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 45	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N70	Back	0.937	5mm	-0.023	-0.0865	-0.206	159.7	1.67	0.01	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 46	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N25	Back	0.867	5mm	-0.023	-0.0865	-0.206	165.6	1.61	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 47	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N25	Back	0.867	5mm	-0.023	-0.0865	-0.206	159.7	1.60	0.01	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 48	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N30	Back	1.07	5mm	0.0036	-0.0832	-0.207	166.5	1.82	0.01	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 49	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N30	Back	1.07	5mm	0.0036	-0.0832	-0.207	160.0	1.80	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				
Case 50	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N41(HPUE)	Back	1.184	5mm	0.0053	-0.0812	-0.206	165.0	1.93	0.02	Not required
	WLAN 2.4G		0.747	5mm	-0.0358	0.0786	-0.207				
Case 51	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
	FR1 N41(HPUE)	Back	1.184	5mm	0.0053	-0.0812	-0.206	158.4	1.91	0.02	Not required
	WLAN 5G		0.729	5mm	-0.031	0.073	-0.207				

For Product specific 10g SAR											
	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 52	GSM1900	Back	2.884	0mm	-0.0245	-0.085	-0.206	156.0	4.58	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 55	WCDMA IV	Back	3.152	0mm	-0.0245	-0.0885	-0.206	159.5	4.85	0.07	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 58	WCDMA II	Back	2.843	0mm	-0.0245	-0.09	-0.206	161.0	4.54	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 59	LTE Band 26	Back	2.37	0mm	-0.035	-0.087	-0.204	158.3	4.06	0.05	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 61	LTE Band 66	Back	3.031	0mm	-0.0245	-0.087	-0.206	158.0	4.73	0.07	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 62	LTE Band 25	Back	2.686	0mm	-0.0245	-0.0835	-0.206	154.5	4.38	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 63	LTE Band 30	Back	2.67	0mm	-0.0046	-0.0822	-0.207	154.7	4.36	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 66	LTE Band 7	Back	2.987	0mm	0.001	-0.0792	-0.206	152.6	4.68	0.07	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 67	LTE Band 41	Back	2.904	0mm	0.0053	-0.0798	-0.206	154.0	4.60	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 69	LTE Band 41(HPUE)	Back	3.008	0mm	0.0029	-0.0786	-0.206	152.4	4.70	0.07	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 80	FR1 N70	Back	3.089	0mm	-0.023	-0.0865	-0.206	159.7	4.78	0.07	Not required
	WLAN 5G		1.694	0mm	-0.031	0.073	-0.207				
Case 70	FR1 N66	Back	2.707	0mm	-0.029	-0.085	-0.206	156.0	4.40	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
Case 72	FR1 N25	Back	2.779	0mm	-0.0245	-0.0865	-0.206	157.5	4.47	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				

	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 74	FR1 N30	Back	2.934	0mm	0.005	-0.0808	-0.207	154.9	4.63	0.06	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				
	Band	Position	SAR (W/kg)	Gap	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 77	FR1 N41(HPUE)	Back	3.078	0mm	0.0053	-0.0824	-0.206	156.6	4.77	0.07	Not required
	WLAN 5G		1.694	0mm	-0.026	0.071	-0.207				

18. Supplemental tuner tests results

General Note:

1. This device impedance tuner (210 status) antenna tuning techniques in the WCDMA V/IV/II, LTE Band 2/4/5/12/13 /14/17/25/26/66/71 for ANT1.
2. LTE B17 / B2 / B5 / B4 SAR test was covered by LTE B12 / B25 / B26 / B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
4. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
5. To evaluate all of the tuner states, the 210 tuner states for ANT1 are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
6. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
7. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).

18.1 Supplemental Tuner Head & Body SAR Results

Please refer to Appendix F.

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19. 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 ≤ 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.

20. 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 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

[8] FCC KDB 648474 D04 v01r03, “SAR Evaluation Considerations for Wireless Handsets”, Oct 2015.

[9] FCC KDB 248227 D01 v02r02, “SAR Guidance for IEEE 802.11 (WiFi) Transmitters”, Oct 2015.

[10] FCC KDB 616217 D04 v01r02, “SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers”, Oct 2015

[11] FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, Oct 2015

[12] FCC KDB 941225 D05 v02r05, “SAR Evaluation Considerations for LTE Devices”, Dec 2015

[13] FCC KDB 941225 D05A v01r02, “Rel. 10 LTE SAR Test Guidance and KDB Inquiries”, Oct 2015

[14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

------THE END------

Appendix A. Plots of System Performance Check

The plots are shown as follows.