FCC SAR Test Report

APPLICANT	: Honeywell International Inc
EQUIPMENT	: mobile computer
BRAND NAME	: Honeywell
MODEL NAME	: CT37X1N
FCC ID	: HD5-CT37X1N
STANDARD	: FCC 47 CFR Part 2 (2.1093)

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

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

Approved by: Si Zhang

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

Table of Contents

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA461912	Rev. 01	Initial issue of report.	Nov. 15, 2024

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Honeywell International Inc, mobile computer, CT37X1N,** are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 10mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	WCDMA	WCDMA II	0.53	1.08	1.06	1.59
		WCDMA IV	0.54	1.12	1.12	
		WCDMA V	0.51	0.40	0.40	
	LTE	LTE Band 7	0.52	0.79	0.79	
		LTE Band 12/17	0.47	0.23	0.23	
		LTE Band 13	0.50	0.28	0.28	
		LTE Band 14	0.52	0.24	0.24	
		LTE Band 25/2	0.49	0.93	0.89	
		LTE Band 26/5	0.50	0.40	0.40	
		LTE Band 30	0.51	1.14	1.14	
		LTE Band 66/4	0.55	1.16	1.16	
		LTE Band 71	0.50	0.28	0.28	
		LTE Band 41/38	0.52	0.68	0.59	
		LTE Band 42	0.56	0.56	0.56	
		LTE Band 48/43	0.55	0.53	0.53	
	5G NR	FR1 n7	0.50	0.74	0.74	
		FR1 n12	0.48	0.17	0.18	
		FR1 n13	0.55	0.23	0.23	
		FR1 n14	0.46	0.20	0.20	
		FR1 n25/n2	0.54	0.75	0.75	
		FR1 n26/n5	0.48	0.36	0.36	
		FR1 n30	0.52	**1.27**	**1.27**	
		FR1 n66	0.61	1.09	1.09	
		FR1 n71	0.39	0.22	0.22	
		FR1 n41/n38	0.52	1.10	0.85	
		FR1 n48	0.57	0.55	0.55	
		FR1 n77/n78	0.49	0.53	0.53	
DTS	WLAN	2.4GHz WLAN	1.18	0.39	0.59	1.59
NII		5GHz WLAN	**1.19**	0.39	1.18	1.59
DSS	Bluetooth	2.4GHz Bluetooth	<0.10	<0.10	<0.10	1.59

Highest 10g SAR Summary				
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	5G NR	FR1 n30	**2.14**	2.56
NII	WLAN	5GHz WLAN	1.34	2.56
Date of Testing:			2024/9/27 ~ 2024/11/5	

Remark:

1. This device supports LTE B2 / B4 / B5 / B17 / B38 / B42(3550-3600MHz)/B43 and B25 / B66 / B26 / B12 / B41 / B48. Since the supported frequency span for LTE B4 / B5 / B17 / B38 / B42(3550-3600MHz)/B43 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41 / B48, 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 / B48.
2. This device supports 5GNR n2/n38/n5/n78 and n25/n41/n26/n77. Since the supported frequency span for 5GNR n38/n5/n78 falls completely within the supports frequency span for n41/n26/n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41/n26/n77.

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-KS SAR03-KS	CN1257	314309

Applicant	
Company Name	Honeywell International Inc
Address	9680 Old Bailes Rd, Fort Mill, SC 29707

Manufacturer	
Company Name	Honeywell International Inc
Address	9680 Old Bailes Rd, Fort Mill, SC 29707

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 computer
Brand Name	Honeywell
Model Name	CT37X1N
FCC ID	HD5-CT37X1N
IMEI Code	Sample 1: IMEI1: 990021480036167 IMEI2: 990021480036175 Sample 2 IMEI1: 990021480041126 IMEI2: 990021480041134 Sample 3 IMEI1: 990021480039666 IMEI2: 990021480039674 Sample 4 IMEI1: 990021480039260 IMEI2: 990021480039278 Sample 5 IMEI1: 990021480029527 IMEI2: 990021480029535
Wireless Technology and Frequency Range	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 42: 3450 MHz ~ 3600MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz

	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII-5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII-6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII-7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII-8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Mode	RMC/AMR 12.2Kbps HSDPA HSUPA 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 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	V1.0
SW Version	OS.31.001-HON.31.001
EUT Stage	Identical Prototype

Remark:

1. This device supports VoIP in WCDMA, LTE and 5GNR (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). WLAN 6GHz has no hotspot function.
4. The 2.4GHz/5GHz/6GHz WLAN can transmit in MIMO/SISO antenna mode.
5. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active).
6. The device implements proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
7. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body and Handheld exposure conditions.
8. For some WWAN bands, sensor on power level is higher than hotspot power level, so front/back sensor on SAR can represent hotspot conservatively.
9. This device supports HPUE for LTE Band 41 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
10. For 5G NR bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
11. Bluetooth LE has two States for normal state (Module 1) and switch OFF state (Module 2). Bluetooth LE (Module 2) is to ensure it sends beacons and beep when the device is switch OFF and cannot be transmitted simultaneously with other wireless modes. And Bluetooth LE (Module 2) has no voice function.
12. This device supports HPUE mode for 5G NR n41/n77/n78 with higher power, so HPUE SAR has been performed full SAR testing and power class 2 SAR can represent power class 3 SAR.
13. The device support DBS (Dual Band Simultaneous) function, when the device 2.4GHz and 5GHz or 6GHz transmit at the same time the device will limit different output power for simultaneous transmission compliance.
14. There are six samples, the different between them refer to the CT37X1N_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, sample 1 was chosen to perform full SAR testing and sample 2/3/4/5 to verify the worst case of sample 1. For sample 6, only memory is different, the differences do not affect the test, so sample 6 is not tested.
15. SAR and Power density test report for WLAN 6GHz U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth always chose higher SAR of WLAN5G U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8.
16. This device has NFC function and the NFC SAR report will be separately submitted.

17. 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
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	10, 15, 20, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n12	FDD	15	5, 10, 15
	n13	FDD	15	5, 10
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	10, 15, 20, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 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>HD5-CT37X1N</td></tr>
<tr><td>Equipment Name</td><td>mobile computer</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 42: 3450 MHz ~ 3600MHz
LTE Band 43: 3600 MHz ~ 3700 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 42: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 43: 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>R16</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 13.</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 13.</td></tr>
</table>

LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 4 carriers in the downlink and 2 carriers in the uplink.

Transmission (H, M, L) channel numbers and frequencies in each LTE band

LTE Band 2

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900

LTE Band 4

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745

LTE Band 5

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
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 42								
	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	42115	3452.5	42140	3455	42165	3457.5	42190	3460
M	42590	3500	42590	3500	42590	3500	42590	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540

LTE Band 42								
	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	43115	3552.5	43140	3555	43165	3557.5	43190	3560
M	43340	3575	43340	3575	43340	3575	43340	3575
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590

LTE Band 43								
	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	43615	3602.5	43640	3605	43665	3607.5	43690	3610
M	44090	3650	44090	3650	44090	3650	44090	3650
H	44565	3697.5	44540	3695	44515	3692.5	44490	3690

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

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

<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 5	Yes	Yes	Yes	Yes		
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes
LTE Band 43			Yes	Yes	Yes	Yes
LTE Band 48			Yes	Yes	Yes	Yes

2) LTE Bands tune up:

Band	Antenna	Head Receiver on Tune-up Limit	Body-worn Sensor on Tune-up Limit	Hotspot Tune-up Limit	Extremity Sensor on Tune-up Limit	Default Tune-up Limit
LTE Band 25(2)	Ant 0	24	24	24	24	24
LTE Band 25(2)	Ant 1	20.5	24	24	24	24
LTE Band 66(4)	Ant 0	23	23	23	23	24
LTE Band 66(4)	Ant 1	23	24	24	24	24
LTE Band 66(4)	Ant 5	17.5	21	20	21	24
LTE Band 26(5)	Ant 1	22.5	25	25	25	25
LTE Band 12(17)	Ant 1	23.5	25	25	25	25
LTE Band 41(38)	Ant 0	23	23	23	23	23
LTE Band 41_HPUE	Ant 0	26	26	26	26	26
LTE Band 41(38)	Ant 1	15.5	23	23	23	23
LTE Band 41_HPUE	Ant 1	18.5	26	26	26	26
LTE Band 41(38)	Ant 2	24	24	24	24	24
LTE Band 41_HPUE	Ant 2	27	27	27	27	27
LTE Band 42 Part 96	Ant 2	24	20	20	20	25
LTE Band 43 Part 96	Ant 2	24	20	20	20	25
LTE Band 48 Part 96	Ant 2	24	20	20	20	25

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B5/7/12/13/14/30/66
LTE Anchor Bands for n5	LTE B2/7/30/66/48
LTE Anchor Bands for n7	LTE B5/12
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B12/66
LTE Anchor Bands for n30	LTE B14
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/30/48/71
LTE Anchor Bands for n71	LTE B2/7/66
LTE Anchor Bands for n38	LTE B12/71
LTE Anchor Bands for n41	LTE B2/12/25/26/66
LTE Anchor Bands for n77	LTE B2/4/5/7/12/13/14/25/30/66
LTE Anchor Bands for n78	LTE B2/4/5/7/12/25/38/66/41/71

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

NR Band 5

	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839

NR Band 7

	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		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	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550

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 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M	376500	1882.5	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	379500	1897.5	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	462000	2310
M	462000	2310		
H	462500	2312.5		

NR Band 66																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760

NR Band 71								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	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 38										
	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)
L	515004	2575.02	515502	2577.51	516000	2580	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	520998	2604.99	519996	2599.98

NR Band 41																				
	Bandwidth 10MHz		Bandwidth 15MHz		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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	500202	2501.01	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	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	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 10MHz		Bandwidth 15MHz		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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	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	656000	3840	656000	3840
H	665000	3975	664834	3972.51	664666	3970.02	664332	3965.01	664000	3960	663668	3955.02	663332	3950.01	663000	3945	662666	3940.02	662332	3935.01	662000	3930

NR Band 78																				
	Bandwidth 10MHz		Bandwidth 15MHz		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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	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	650000	3750	650000	3750
H	653000	3795	652834	3792.51	652668	3790.02	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

NR Band 48										
	Bandwidth 10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99
H	646332	3694.98	646166	3692.49	646000	3690	645666	3684.99	645332	3679.98

NR Band 77																				
	Bandwidth 10MHz		Bandwidth 15MHz		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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	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	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78																				
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	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	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

<For NR Overlap Bands Description>

1) NR Bands BW

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
SA/NSA	n2	FDD	15	5, 10, 15, 20
	n25	FDD	15	5, 10, 15, 20,25,30,40
	n5	FDD	15	5,10,15,20
	n26	FDD	15	5,10,15,20
	n38	TDD	30	10,15,20,30,40
	n41	TDD	30	10,15,20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10,15,20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10,15,20, 30, 40, 50, 60, 70, 80, 90, 100

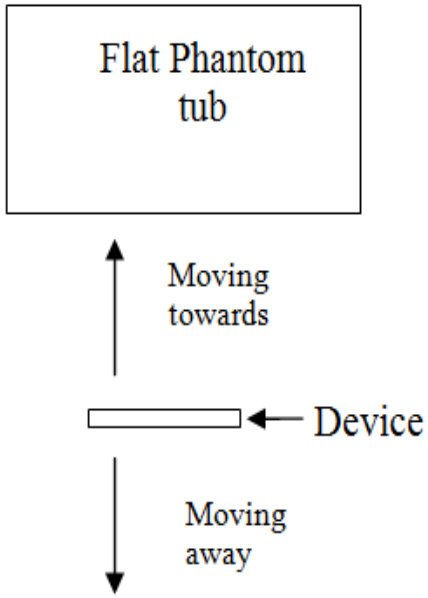
2) NR Bands Tune up:

Band	Antenna	Head Receiver on Tune-up Limit	Body-worn Sensor on Tune-up Limit	Hotspot Tune-up Limit	Extremity Sensor on Tune-up Limit	Default Tune-up Limit
5G NR n25(2)	Ant 0	24	24	24	24	24
5G NR n25(2)	Ant 1	21.5	24	24	24	24
5G NR n25(2)	Ant 5	19	21.5	21.5	21.5	24
5G NR n26(5)	Ant 1	22	24	24	24	24
5G NR n41(38) PC3	Ant 0	24	24	24	24	24
5G NR n41 PC2	Ant 0	25	25	25	25	27
5G NR n41(38) PC3	Ant 1	15	23	23	23	23
5G NR n41 PC2	Ant 1	15	26	26	26	26
5G NR n41(38) PC3	Ant 2	24	24	24	24	24
5G NR n41 PC2	Ant 2	25	25	25	25	25
5G NR n41(38) PC3	Ant 3	23	23	23	23	23
5G NR n41 PC2	Ant 3	26	26	26	26	26
5G NR n77(78) PC3 Part27O&27Q	Ant 2	19.5	18	18	18	24
5G NR n77(78) PC2 Part27O&27Q	Ant 2	19.5	18	18	18	26
5G NR n77(78) PC3 Part27O&27Q	Ant 3	22	21.5	21.5	21.5	22
5G NR n77(78) PC2 Part27O&27Q	Ant 3	25	21.5	21.5	21.5	25
5G NR n77(78) PC3 Part27O&27Q	Ant 4	17.5	20	20	20	24
5G NR n77(78) PC2 Part27O&27Q	Ant 4	17.5	20	20	20	26
5G NR n77(78) PC3 Part27O&27Q	Ant 5	16.5	21	20.5	21	21
5G NR n77(78) PC2 Part27O&27Q	Ant 5	16.5	23	20.5	23	23

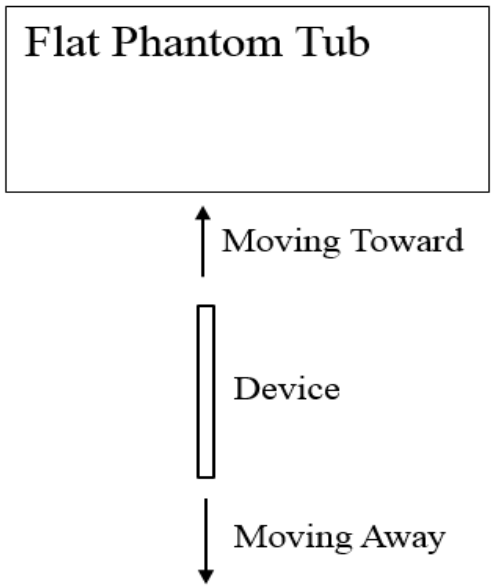
5. Proximity Sensor Triggering Test

<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 (7125MHz) and lowest (1750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



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



Handheld detection test set-up, Left Side, Right 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	15	17	30	31

<Handheld for ANT 0>

Proximity Sensor Triggering Distance (mm)										
Position	Front		Back		Left Side		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	17	20	30	31	11	13	16	22	24	32

<Handheld for ANT2>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	13	17	11	13

<Handheld for ANT3>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Left Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	11	11	13

<Handheld for ANT4>

Proximity Sensor Triggering Distance (mm)				
Position	Back		Right Side	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	8	5	9

< Sensor for ANT5>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	3	6	17	19

< Sensor for ANT6/7/6+7>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	3	6	17	19	17	20	9	15

6. RF Exposure Limits

6.1 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.

6.2 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.

7. Specific Absorption Rate (SAR)

7.1 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.

7.2 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:

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

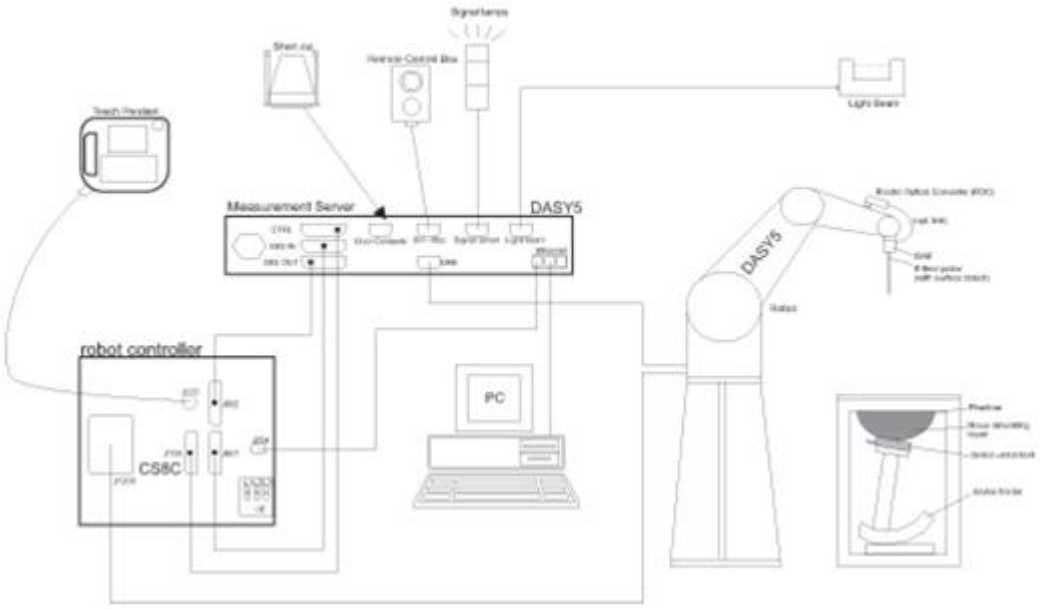
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7and 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.

8.1 E-Field Probe

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

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	4 MHz – 10 GHz Linearity: ±0.2 dB (30 MHz – 10 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 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

8.2 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.

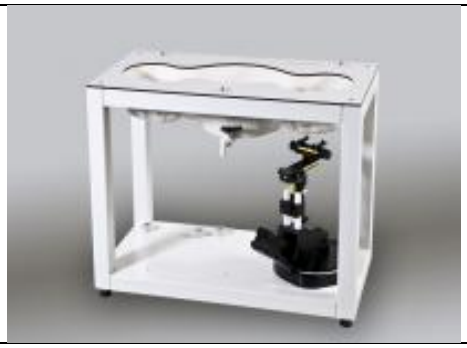
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

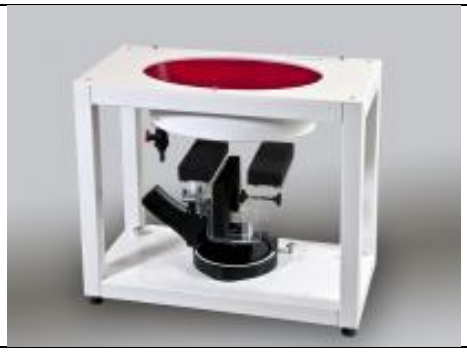
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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

<ELI Phantom>

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



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

8.4 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

9. 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

9.1 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

9.2 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.

9.3 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.	

9.4 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.

9.5 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.

9.6 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.

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2025/2/22
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2023/8/21	2026/8/20
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2024/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2024/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2024/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1303	2023/11/20	2024/11/19
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2024/1/22	2025/1/21
SPEAG	SAM Twin Phantom	SAM Twin	TP-1697	NCR	NCR
Testo	Thermo-Hygrometer	HTC-1	55011	2024/1/4	2025/1/3
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2024/2/19	2025/2/18
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2023/10/11	2024/10/10
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2024/1/4	2025/1/3
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
ARRA	Power Divider	A3200-2	N/A	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	

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.

11. System Verification

11.1 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.

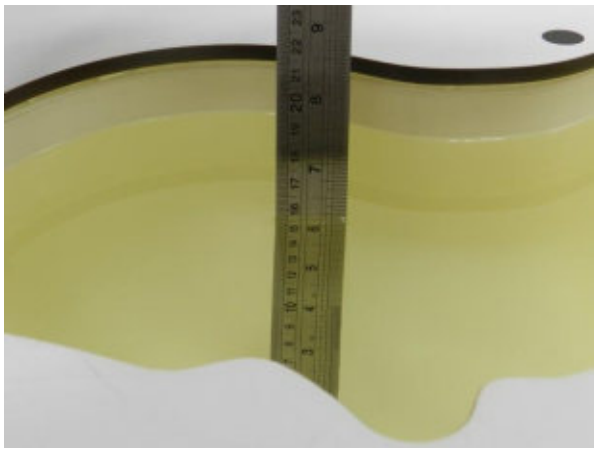


Fig 11.1 Photo of Liquid Height for Head SAR

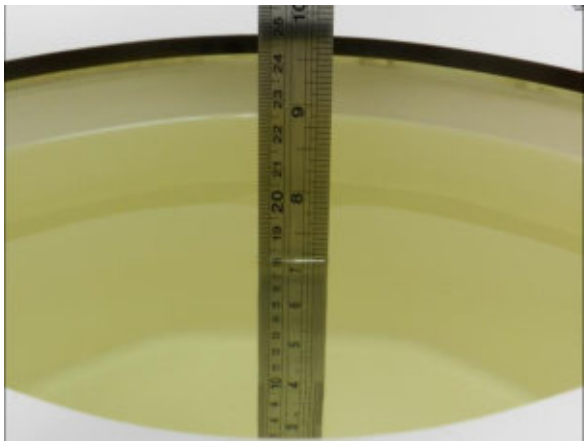


Fig 11.2 Photo of Liquid Height for Body SAR

11.2 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
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

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	22.8	0.887	42.282	0.89	41.90	-0.34	0.91	±5	2024/9/27
835	Head	22.9	0.913	41.936	0.90	41.50	1.44	1.05	±5	2024/9/28
1750	Head	22.7	1.319	40.225	1.37	40.10	-3.72	0.31	±5	2024/9/29
1900	Head	22.8	1.406	40.215	1.40	40.00	0.43	0.54	±5	2024/9/30
2300	Head	22.8	1.651	39.657	1.67	39.50	-1.14	0.40	±5	2024/10/1
2600	Head	22.6	2.040	40.355	1.96	39.00	4.08	3.47	±5	2024/10/2
3500	Head	22.9	2.813	38.735	2.91	37.90	-3.33	2.20	±5	2024/10/3
3700	Head	22.7	2.991	38.382	3.12	37.70	-4.13	1.81	±5	2024/10/4
3900	Head	22.6	3.175	38.058	3.32	37.50	-4.37	1.49	±5	2024/10/5
750	Head	22.9	0.889	42.281	0.89	41.90	-0.11	0.91	±5	2024/10/6
835	Head	22.6	0.912	41.949	0.90	41.50	1.33	1.08	±5	2024/10/7
1750	Head	22.9	1.317	40.224	1.37	40.10	-3.87	0.31	±5	2024/10/8
1900	Head	22.9	1.407	40.212	1.40	40.00	0.50	0.53	±5	2024/10/9
2300	Head	22.7	1.653	39.655	1.67	39.50	-1.02	0.39	±5	2024/10/10
2600	Head	22.8	2.030	40.344	1.96	39.00	3.57	3.45	±5	2024/10/11
3500	Head	22.6	2.810	38.711	2.91	37.90	-3.44	2.14	±5	2024/10/12
3700	Head	22.7	2.988	38.359	3.12	37.70	-4.23	1.75	±5	2024/10/13
3900	Head	22.6	3.171	38.036	3.32	37.50	-4.49	1.43	±5	2024/10/14
2450	Head	22.7	1.744	39.267	1.80	39.20	-3.11	0.17	±5	2024/10/15
5250	Head	22.9	4.573	35.720	4.71	35.90	-2.91	-0.50	±5	2024/10/16
5600	Head	22.6	4.997	35.371	5.07	35.50	-1.44	-0.36	±5	2024/10/17
5750	Head	22.6	5.105	34.869	5.22	35.40	-2.20	-1.50	±5	2024/10/18
1900	Head	22.7	1.424	41.794	1.40	40.00	1.71	4.48	±5	2024/11/5

11.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2024/9/27	750	Head	50	1087	3857	1303	0.462	8.58	9.24	7.69
2024/9/28	835	Head	50	4d298	3857	1303	0.477	9.89	9.54	-3.54
2024/9/29	1750	Head	50	1090	3857	1303	1.770	37.00	35.4	-4.32
2024/9/30	1900	Head	50	5d118	3857	1303	1.850	39.30	37	-5.85
2024/10/1	2300	Head	50	1055	3857	1303	2.290	48.40	45.8	-5.37
2024/10/2	2600	Head	50	1112	3857	1303	2.690	55.10	53.8	-2.36
2024/10/3	3500	Head	50	1037	3857	1303	3.120	65.40	62.4	-4.59
2024/10/4	3700	Head	50	1008	3857	1303	3.170	67.20	63.4	-5.65
2024/10/5	3900	Head	50	1048	3857	1303	3.650	69.10	73	5.64
2024/10/6	750	Head	50	1087	3857	1303	0.447	8.58	8.94	4.20
2024/10/7	835	Head	50	4d298	3857	1303	0.486	9.89	9.72	-1.72
2024/10/8	1750	Head	50	1090	3857	1303	1.930	37.00	38.6	4.32
2024/10/9	1900	Head	50	5d118	3857	1303	1.960	39.30	39.2	-0.25
2024/10/10	2300	Head	50	1055	3857	1303	2.290	48.40	45.8	-5.37
2024/10/11	2600	Head	50	1112	3857	1303	2.870	55.10	57.4	4.17
2024/10/12	3500	Head	50	1037	3857	1303	3.350	65.40	67	2.45
2024/10/13	3700	Head	50	1008	3857	1303	3.500	67.20	70	4.17
2024/10/14	3900	Head	50	1048	3857	1303	3.260	69.10	65.2	-5.64
2024/10/15	2450	Head	50	1095	3857	1303	2.670	52.60	53.4	1.52
2024/10/16	5250	Head	50	1113	3857	1303	4.170	81.50	83.4	2.33
2024/10/17	5600	Head	50	1113	3857	1303	4.420	82.60	88.4	7.02
2024/10/18	5750	Head	50	1113	3857	1303	4.080	80.80	81.6	0.99
2024/11/5	1900	Head	50	5d118	3857	1303	1.920	39.30	38.4	-2.29

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/9/27	750	Head	50	1087	3857	1303	0.298	5.65	5.96	5.49
2024/9/28	835	Head	50	4d298	3857	1303	0.313	6.45	6.26	-2.95
2024/9/29	1750	Head	50	1090	3857	1303	0.946	19.50	18.92	-2.97
2024/9/30	1900	Head	50	5d118	3857	1303	0.956	20.40	19.12	-6.27
2024/10/1	2300	Head	50	1055	3857	1303	1.100	23.70	22	-7.17
2024/10/2	2600	Head	50	1112	3857	1303	1.240	24.80	24.8	0.00
2024/10/3	3500	Head	50	1037	3857	1303	1.200	24.70	24	-2.83
2024/10/4	3700	Head	50	1008	3857	1303	1.190	24.40	23.8	-2.46
2024/10/5	3900	Head	50	1048	3857	1303	1.230	24.10	24.6	2.07
2024/10/6	750	Head	50	1087	3857	1303	0.302	5.65	6.04	6.90
2024/10/7	835	Head	50	4d298	3857	1303	0.326	6.45	6.52	1.09
2024/10/8	1750	Head	50	1090	3857	1303	1.010	19.50	20.2	3.59
2024/10/9	1900	Head	50	5d118	3857	1303	1.060	20.40	21.2	3.92
2024/10/10	2300	Head	50	1055	3857	1303	1.100	23.70	22	-7.17
2024/10/11	2600	Head	50	1112	3857	1303	1.320	24.80	26.4	6.45
2024/10/12	3500	Head	50	1037	3857	1303	1.310	24.70	26.2	6.07
2024/10/13	3700	Head	50	1008	3857	1303	1.280	24.40	25.6	4.92
2024/10/14	3900	Head	50	1048	3857	1303	1.130	24.10	22.6	-6.22
2024/10/15	2450	Head	50	1095	3857	1303	1.260	24.70	25.2	2.02
2024/10/16	5250	Head	50	1113	3857	1303	1.220	23.30	24.4	4.72
2024/10/17	5600	Head	50	1113	3857	1303	1.200	23.70	24	1.27
2024/10/18	5750	Head	50	1113	3857	1303	1.180	23.00	23.6	2.61
2024/11/5	1900	Head	50	5d118	3857	1303	1.010	20.40	20.2	-0.98

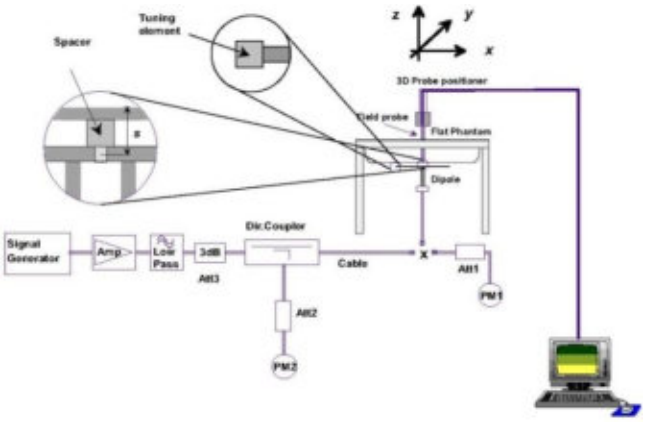


Fig 11.3.1 System Performance Check Setup

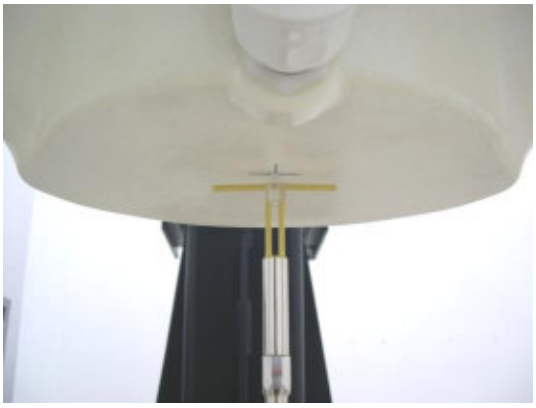


Fig 11.3.2 Setup Photo

12. RF Exposure Positions

12.1 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.

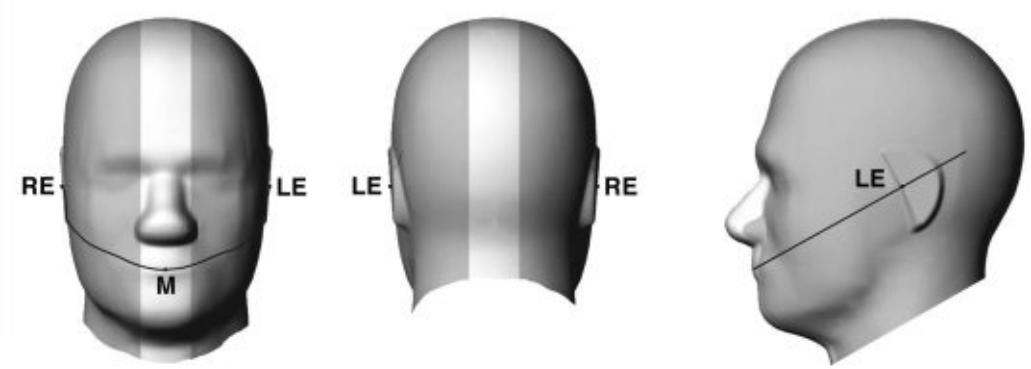


Fig 12.1.1 Front, back, and side views of SAM twin phantom

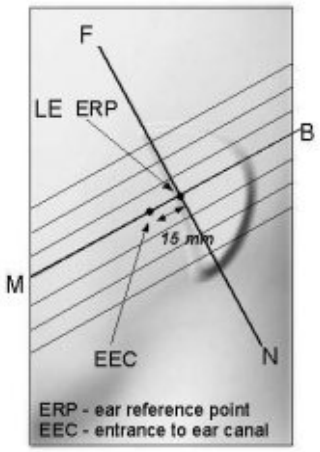


Fig 12.1.2 Close-up side view of phantom showing the ear region.

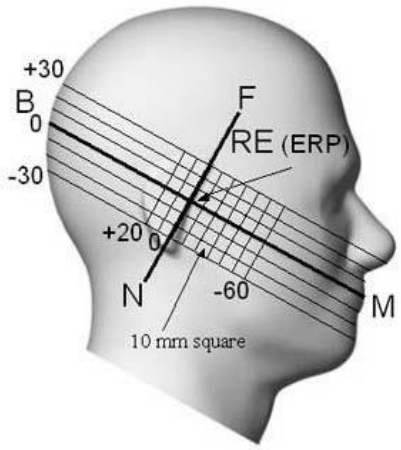


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

12.2 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.

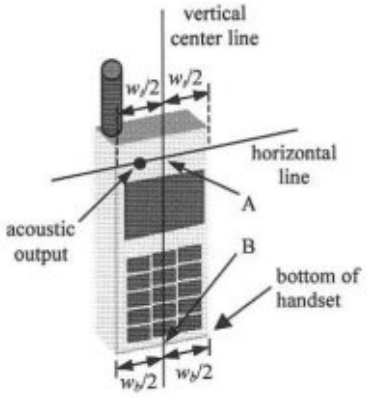


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

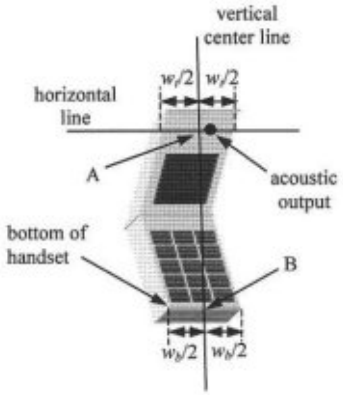


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

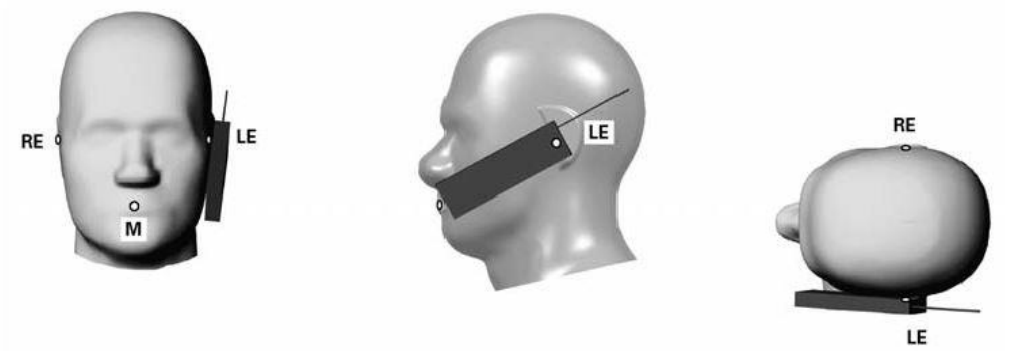


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.3 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

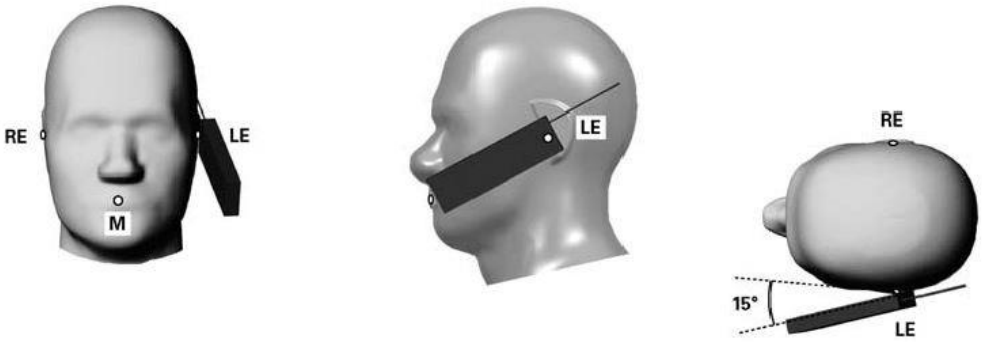


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

12.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

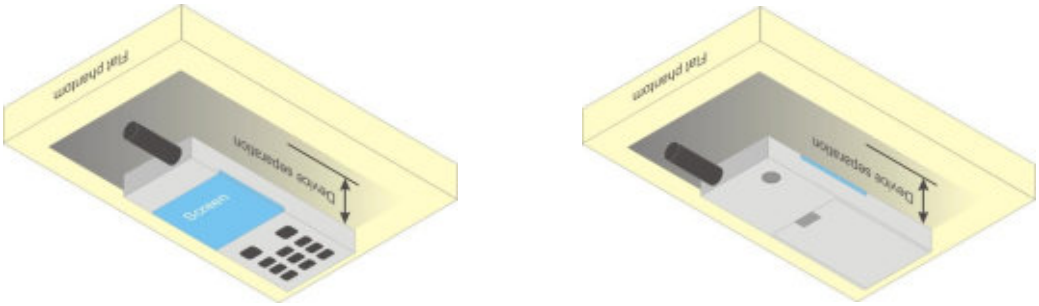


Fig 12.4 Body Worn Position

12.5 Product Specific 10g SAR Exposure

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

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

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

12.6 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.

13. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} *(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

<WCDMA Conducted Power>

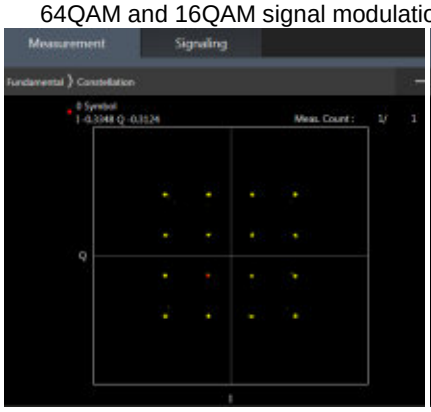
General Note:

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 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 to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

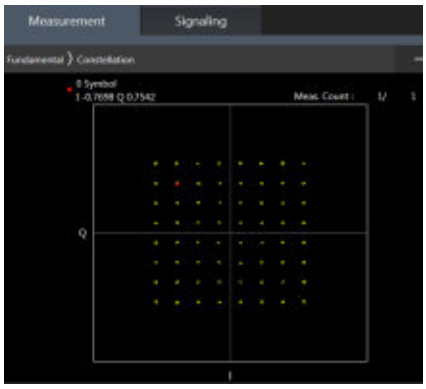
<LTE Conducted Power>

General Note:

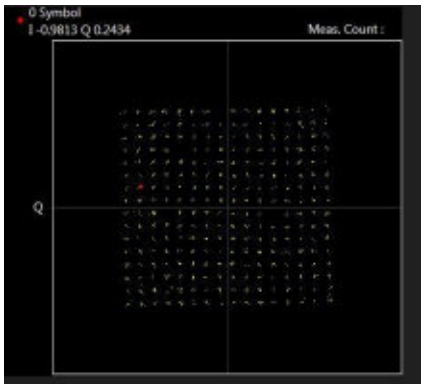
1. Anritsu MT8821C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested 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 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 / B42(3550-3600MHz)/B43 SAR test was covered by B25 / B66 / B26 / B12 / B41/ B48; 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 May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



16QAM



64QAM



256QAM

<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.

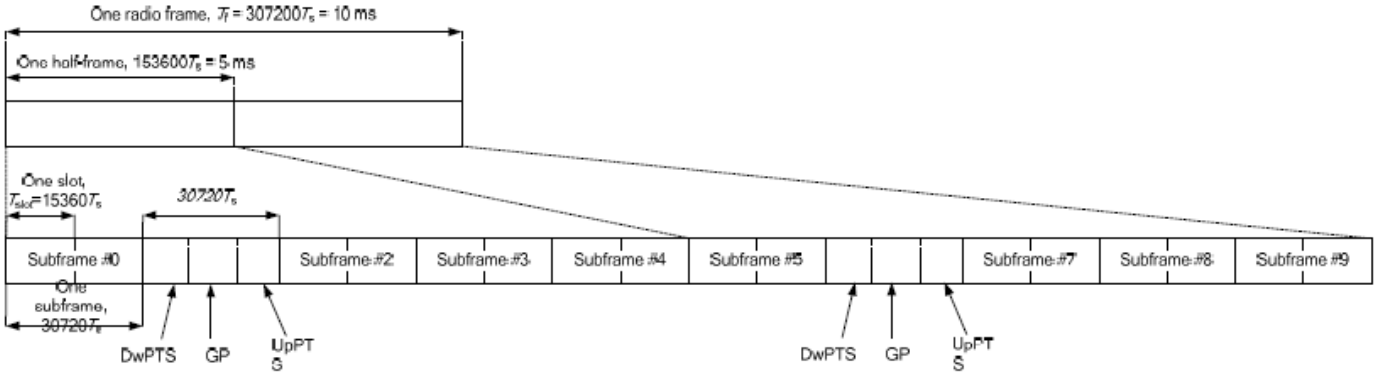


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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 TDD 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 TDD 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>

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

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. 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	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_12A-30A	30A	3CC-1	1	CA_12A-30A-66A	30A-66A	4CC-1	1	CA_12A-30A-66A-66A	30A-66A	
2	CA_12A-66A	66A	3CC-1	2	CA_12A-66A-66A	66A	4CC-1	2	CA_13A-48A-66B	48A-66B	
3	CA_13A-48A	48A	3CC-4	3	CA_12A-66C	66A	4CC-9	3	CA_13A-48A-66C	48A-66C	
4	CA_13A-66A	66A	3CC-4	4	CA_13A-48A-66A	48A-66A		4	CA_13A-48C-66A	48C-66A	
5	CA_14A-30A	30A	3CC-9	5	CA_13A-48C	48A	4CC-4	5	CA_13A-48D	48D	
6	CA_14A-66A	66A	3CC-9	6	CA_13A-66A-66A	66A	4CC-11	6	CA_14A-30A-66A-66A	30A-66A	
7	CA_25A-25A	25A		7	CA_13A-66B	66A	4CC-2	7	CA_29A-30A-66A-66A	30A-66A	
8	CA_29A-30A	30A	3CC-18	8	CA_13A-66C	66A	4CC-3	8	CA_2A-12A-66A-66A	2A-66A	
9	CA_29A-66A	66A	4CC-7	9	CA_14A-30A-66A	30A-66A	4CC-6	9	CA_2A-12A-66C	2A-66C	
10	CA_2A-12A	2A	3CC-11	10	CA_14A-66A-66A	66A-66A	4CC-6	10	CA_2A-13A-48C	2A-48C	
11	CA_2A-13A	2A	3CC-14	11	CA_2A-12A-30A	2A-30A	4CC-15	11	CA_2A-13A-66A-66A	2A-66A	
12	CA_2A-14A	2A	3CC-16	12	CA_2A-12A-66A	2A-66A	4CC-16	12	CA_2A-13A-66B	2A-66B	
13	CA_2A-17A	2A		14	CA_2A-13A-48A	2A-48A		13	CA_2A-13A-66C	2A-66C	
14	CA_2A-29A	2A	3CC-18	15	CA_2A-13A-66A	2A-66A	4CC-11	14	CA_2A-14A-66A-66A	2A-66A	
15	CA_2A-2A	2A	3CC-19	16	CA_2A-14A-30A	2A-30A		15	CA_2A-2A-12A-30A	2A-30A	
16	CA_2A-30A	2A-30A	3CC-18	17	CA_2A-14A-66A	2A-66A	4CC-18	16	CA_2A-2A-12A-66A	2A-66A	
17	CA_2A-48A	2A-48A	3CC-26	18	CA_2A-29A-30A	2A-30A	4CC-19	17	CA_2A-2A-13A-66A	2A-66A	
18	CA_2A-4A	2A-4A	3CC-21	19	CA_2A-2A-12A	2A	4CC-16	18	CA_2A-2A-14A-66A	2A-66A	
19	CA_2A-5A	2A	3CC-22	20	CA_2A-2A-13A	2A	4CC-17	19	CA_2A-2A-29A-30A	2A-30A	
20	CA_2A-66A	2A-66A	3CC-23	21	CA_2A-2A-4A	2A-4A	4CC-21	20	CA_2A-2A-30A-66A	2A-30A-66A	
21	CA_2A-71A	2A	3CC-24	22	CA_2A-2A-5A	2A	4CC-25	21	CA_2A-2A-4A-12A	2A-4A	
22	CA_2A-7A	2A-7A		23	CA_2A-2A-66A	2A-66A	4CC-26	22	CA_2A-2A-4A-4A	2A-4A	
23	CA_2C	2A	3CC-41	24	CA_2A-2A-71A	2A	4CC-28	23	CA_2A-2A-4A-5A	2A-4A	
24	CA_30A-66A	30A-66A	3CC-42	25	CA_2A-30A-66A	2A-30A-66A	4CC-31	24	CA_2A-2A-4A-71A	2A-4A	
25	CA_38C	38A		26	CA_2A-48A-48A	2A-48A		25	CA_2A-2A-5A-30A	2A-30A	
26	CA_41A-41A	41A	3CC-69	27	CA_2A-48A-66A	2A-48A-66A		26	CA_2A-2A-5A-66A	2A-66A	
27	CA_41C	41A	3CC-69	28	CA_2A-48C	2A-48C	4CC-32	27	CA_2A-2A-66A-66A	2A-66A	
28	CA_48A-48A	48A	3CC-44	29	CA_2A-4A-12A	2A-4A	4CC-21	28	CA_2A-2A-66A-71A	2A-66A	
29	CA_48A-66A	48A-66A	3CC-44	30	CA_2A-4A-13A	2A-4A		29	CA_2A-2A-66B	2A-66B	
30	CA_48C	48A	3CC-28	31	CA_2A-4A-4A	2A-4A	4CC-34	30	CA_2A-2A-66C	2A-66C	
31	CA_4A-12A	4A	3CC-29	32	CA_2A-4A-5A	2A-4A	4CC-34	31	CA_2A-30A-66A-66A	2A-30A-66A	
32	CA_4A-13A	4A	3CC-30	33	CA_2A-4A-71A	2A-4A	4CC-24	32	CA_2A-48C-66A	2A-48C-66A	
33	CA_4A-17A	4A		34	CA_2A-5A-30A	2A-30A	4CC-25	33	CA_2A-48D	2A-48D	
34	CA_4A-29A	4A	3CC-51	35	CA_2A-5A-48A	2A-48A		34	CA_2A-4A-4A-5A	2A-4A	
35	CA_4A-48A	4A-48A		36	CA_2A-5A-66A	2A-66A	4CC-36	35	CA_2A-5A-48C	2A-48C	
36	CA_4A-4A	4A	3CC-31	37	CA_2A-66A-66A	2A-66A	4CC-36	36	CA_2A-5A-66A-66A	2A-66A	
37	CA_4A-5A	4A	3CC-32	38	CA_2A-66A-71A	2A-66A	4CC-41	37	CA_2A-5A-66B	2A-66B	
38	CA_4A-71A	4A	3CC-33	39	CA_2A-66B	2A-66A	4CC-37	38	CA_2A-5A-66C	2A-66C	
39	CA_5A-13A		3CC-71	40	CA_2A-66C	2A-66A	4CC-38	39	CA_2A-5B-66A	2A-66A	
40	CA_5A-30A	30A	3CC-58	41	CA_2C-66A	2A-66A	4CC-43	40	CA_2A-66A-66A-66A	2A-66A	
41	CA_5A-48A	48A	3CC-59	42	CA_30A-66A-66A	30A-66A	4CC-31	41	CA_2A-66A-66A-71A	2A-66A	

42	CA_5A-5A			43	CA_41D	41D	4CC-55	42	CA_2A-66C-71A	2A-66C	
43	CA_5A-66A	66A	3CC-61	44	CA_48A-48A-66A	48A-66A		43	CA_2C-66A-66A	2C-66A	
44	CA_5A-7A	7A		45	CA_48A-66A-66A	48A-66A		44	CA_48C-66A-66A	48C-66A	
45	CA_5B		4CC-53	46	CA_48A-66B	48A-66A	4CC-2	45	CA_48C-66B	48C-66B	
46	CA_66A-66A	66A	3CC-64	47	CA_48A-66C	48A-66A	4CC-3	46	CA_48C-66C	48C-66C	
47	CA_66A-71A	66A	3CC-65	48	CA_48C-66A	48A-66A	4CC-44	47	CA_48D-66A	48D-66A	
48	CA_66B	66A	3CC-62	49	CA_48D	48D	4CC-47	48	CA_48E	48E	
49	CA_66C	66A	3CC-63	50	CA_4A-12A-30A	4A-30A		49	CA_4A-48D	4A-48D	
50	CA_7A-7A	7A		51	CA_4A-29A-30A	4A-30A		50	CA_5A-30A-66A-66A	30A-66A	
51	CA_7C	7A		52	CA_4A-48C	4A-48C		51	CA_5A-48C-66A	48C-66A	
52	CA_4A_30A	4A_30A	3CC-57	53	CA_4A-4A-12A	4A	4CC-54	52	CA_5A-48D	48D	
53	CA_5A-13A		3CC-71	54	CA_4A-4A-13A	4A		53	CA_5B-66A-66A	66A	
				55	CA_4A-4A-5A	4A	4CC-34	54	CA_2A-4A-4A-12A	2A-4A	
				56	CA_4A-4A-71A	4A		55	CA_25A-41D	25A-41D	
				57	CA_4A-5A-30A	4A-30A					
				58	CA_5A-30A-66A	30A-66A	4CC-50				
				59	CA_5A-48A-66A	48A-66A					
				60	CA_5A-48C	48C	4CC-51				
				61	CA_5A-66A-66A	66A	4CC-50				
				62	CA_5A-66B	66A	4CC-37				
				63	CA_5A-66C	66A	4CC-38				
				64	CA_66A-66A-66A	66A	4CC-40				
				65	CA_66A-66A-71A	66A	4CC-41				
				66	CA_66A-66C	66A					
				67	CA_66C-71A	66A	4CC-42				
				68	CA_66D	66A					
				69	CA_41C-41A	41A					
				70	CA_48C-48A	48A					
				71	CA_2A-5A-13A	2A					
				72	CA_4A-5A-13A	4A					

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 three 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 Band 2/4/7/25/30/38/41/42/48/66 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 2/4/7/25/30/38/41/42/48/66

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	Ant 0
CA_66C	Ant 0
CA_66B	Ant 0
CA_38C	Ant 0
CA_41C	Ant 0
CA_48C	Ant 2

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B7/66/48/41/38 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 Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

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	
Inter-band	Main Antenna Tx	
CA_12A-30A	ANT1	ANT0
CA_12A-66A	ANT1	ANT0
CA_13A-66A	ANT1	ANT0
CA_14A-30A	ANT1	ANT0
CA_14A-66A	ANT1	ANT0
CA_2A-12A	ANT0	ANT1
CA_2A-13A	ANT0	ANT1
CA_2A-14A	ANT0	ANT1
CA_2A-66A	ANT0	ANT5
CA_2A-4A	ANT0	ANT5
CA_2A-5A	ANT0	ANT1
CA_4A-5A	ANT0	ANT1
CA_4A-12A	ANT0	ANT1
CA_4A-13A	ANT0	ANT1
CA_4A-17A	ANT0	ANT1
CA_5A-30A	ANT1	ANT0
CA_5A-66A	ANT1	ANT0
CA_5A-7A	ANT1	ANT0

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. For Inter-band CA co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter band CA.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n12/n13/n14/n25/n26/n30/n66/n38/n41/n48/n71/n77/n78 is SA mode.
2. 5G NR n2/n5/n7/n12/n25/n30/n66/n38/n41/n71/n77/n78 is NSA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
   b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
   c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
   d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
   e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
   f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
   g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
5. 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.
6. 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.
7. 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.
8. 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.
9. This device supports HPUE mode for 5G NR n41/n77/n78 with higher power, so HPUE SAR has been performed full SAR testing and power class 2 SAR can represent power class 3 SAR.
10. For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.

<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		

<EN-DC combination>

ENDC	Main Antenna Tx	
	LTE TX	NR TX
DC_13A_n66A	ANT 1	ANT 0
DC_5A_n2A	ANT 1	ANT 0
DC_14A_n2A	ANT 1	ANT 0
DC_30A_n2A	ANT0	ANT5
DC_30A_n2A	ANT2	ANT0
DC_2A_n5A	ANT0	ANT1
DC_30A_n5A	ANT0	ANT1
DC_66A_n5A	ANT0	ANT1
DC_2A_n12A	ANT0	ANT1
DC_14A_n30A	ANT1	ANT0
DC_2A_n66A	ANT0	ANT5
DC_2A_n66A	ANT5	ANT0
DC_5A_n66A	ANT 1	ANT 0
DC_12A_n66A	ANT 1	ANT 0
DC_14A_n66A	ANT 1	ANT 0
DC_30A_n66A	ANT0	ANT5
DC_30A_n66A	ANT2	ANT0
DC_12A_n2A	ANT 1	ANT 0
DC_66A_n2A	ANT0	ANT5
DC_66A_n2A	ANT 1	ANT 0
DC_2A_n41A	ANT0	ANT2
DC_71A_n66A	ANT 1	ANT 0
DC_2A_n71A	ANT0	ANT1
DC_66A_n71A	ANT0	ANT1
DC_66A_n41A	ANT0	ANT2
DC_25A_n41A	ANT0	ANT2
DC_26A_n41A	ANT1	ANT0

DC_7A_n78A	ANT0	ANT4
DC_38A_n78A	ANT0	ANT4
DC_5A_n78A	ANT1	ANT2
DC_66A_n78A	ANT0	ANT4
DC_2A_n78A	ANT0	ANT4
DC_7A_n71A	ANT0	ANT1
DC_12A_n78A	ANT1	ANT2
DC_5A_n7A	ANT1	ANT0
DC_12A_n7A	ANT1	ANT0
DC_13A_n2A	ANT 1	ANT 0
DC_48A_n5A	ANT2	ANT1
DC_48A_n66A	ANT2	ANT5
DC_7A_n66A	ANT0	ANT5
DC_7A_n66A	ANT2	ANT0
DC_41A_n77A	ANT0	ANT4
DC_41A_n78A	ANT0	ANT4
DC_12A_n38A	ANT1	ANT0
DC_4A_n78A	ANT0	ANT4
DC_12A_n25A	ANT1	ANT0
DC_7A_n77A	ANT0	ANT4
DC_71A_n78A	ANT1	ANT2
DC_71A_n38A	ANT1	ANT0
DC_12A_n41A	ANT1	ANT0
DC_7A_n2A	ANT0	ANT5
DC_2A_n77A	ANT0	ANT4
DC_5A_n77A	ANT1	ANT4
DC_13A_n77A	ANT1	ANT4
DC_66A_n77A	ANT0	ANT4
DC_12A_n77A	ANT1	ANT4
DC_14A_n77A	ANT1	ANT4
DC_30A_n77A	ANT0	ANT4
DC_25A_n78A	ANT0	ANT4
DC_25A_n77A	ANT0	ANT4
DC_66A_n12A	ANT0	ANT1
DC_7A_n5A	ANT0	ANT1
DC_66A_n25A	ANT0	ANT5

<WLAN Conducted Power>

General Note:

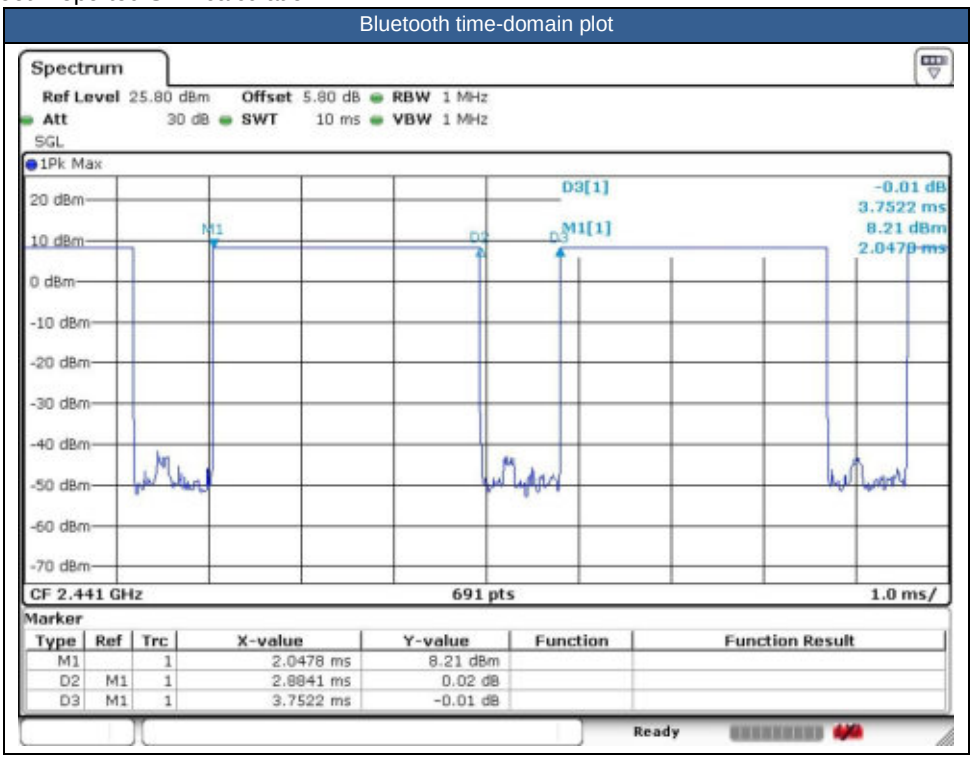
1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For “Not required”, SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
    a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
    b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next 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.
6. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode.
7. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
8. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two SISO antennas respectively to calculate sum of the power for MIMO mode.
9. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.

<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 76.86% as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.

Bluetooth time-domain plot



2nd BLE Exclusions Applied:

Mode Band	Max Average power(dBm)
	LE
2.4GHz Bluetooth	4.0

Note:

1. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:
   [(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation
   - The result is rounded to one decimal place for comparison

LE Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
4.0	10	2.48	0.4
	0	2.48	0.8

Note:

1. Per KDB 447498 D01v06, since Bluetooth LE (Module 2) has no voice function, so the minimum test separation distance is 10 mm for 1g SAR and 0mm for 10g SAR. When the minimum test separation distance and applied separately to determine SAR test exclusion. The test exclusion threshold at 10mm is 0.4 which is <= 3 for 1g SAR and at 0mm is 0.8 which is ≤ 7.5 for 10-g extremity SAR, so SAR testing is not required.
2. According to the EUT characteristic, Bluetooth LE (Module 2) cannot be transmitted simultaneously with other wireless modes, so there is no need to consider the transmit simultaneous.

14. Antenna Location

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

15. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
   c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
   d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
   f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
   g. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
   - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
   - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
   - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/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 proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). 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 5G NR bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
6. Per KDB648474 D04v01r03, when the EUT is in flip open configuration with 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 5GNR n30, WLAN2.4 /5.2GHz/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.
7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
8. Although the distance 1gSAR is greater than 0.8 W/kg at body-worn exposure conditions, the distance SAR verified the worst of the non-distance SAR and less than non-distance SAR, so there is no need to be tested other channels.
9. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
10. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
11. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and

edges with an antenna located at ≤ 25mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.

12. The device for LTE Band 48C/5GNR n48 SAR testing was configured by the 3GPP MPR implementations and in order to more conservative RF exposure assessment to determine SAR compliance, the actual maximum output power in production unit refer to Part 96 report and tune up document.

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 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 to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA.

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 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 / B42(3550-3600MHz)/B43 SAR test was covered by B25 / B66 / B26 / B12 / B41 / B48; 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 QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
   b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
   c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
   d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
   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 /n7/n26/n66/n38/n41 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.
6. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
8. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	133297	680.5	1	23.96	25.00	1.271	-	-	-0.15	0.395	**0.502**
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Receiver on	133297	680.5	1	23.03	24.00	1.250	-	-	0.1	0.320	0.400
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	133297	680.5	1	23.96	25.00	1.271	-	-	0.16	0.283	0.360
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Receiver on	133297	680.5	1	23.03	24.00	1.250	-	-	-0.06	0.232	0.290
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	133297	680.5	1	23.96	25.00	1.271	-	-	0.02	0.231	0.294
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Receiver on	133297	680.5	1	23.03	24.00	1.250	-	-	-0.16	0.188	0.235
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	133297	680.5	1	23.96	25.00	1.271	-	-	0.05	0.168	0.213
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Receiver on	133297	680.5	1	23.03	24.00	1.250	-	-	-0.03	0.139	0.174
02	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	23095	707.5	1	22.67	23.50	1.211	-	-	-0.02	0.385	**0.466**
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Receiver on	23095	707.5	1	22.64	23.50	1.219	-	-	-0.04	0.303	0.369
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	23095	707.5	1	22.67	23.50	1.211	-	-	-0.13	0.254	0.307
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Receiver on	23095	707.5	1	22.64	23.50	1.219	-	-	-0.13	0.203	0.247
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	23095	707.5	1	22.67	23.50	1.211	-	-	0.06	0.214	0.259
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Receiver on	23095	707.5	1	22.64	23.50	1.219	-	-	-0.03	0.171	0.208
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	23095	707.5	1	22.67	23.50	1.211	-	-	-0.03	0.147	0.178
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Receiver on	23095	707.5	1	22.64	23.50	1.219	-	-	0.08	0.120	0.146
03	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	23230	782	1	22.66	23.50	1.213	-	-	-0.11	0.410	**0.497**
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Receiver on	23230	782	1	22.65	23.50	1.216	-	-	-0.07	0.313	0.381
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	23230	782	1	22.66	23.50	1.213	-	-	0.05	0.292	0.354
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Receiver on	23230	782	1	22.65	23.50	1.216	-	-	-0.11	0.226	0.275
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	23230	782	1	22.66	23.50	1.213	-	-	-0.12	0.252	0.306
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Receiver on	23230	782	1	22.65	23.50	1.216	-	-	0.03	0.195	0.237
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	23230	782	1	22.66	23.50	1.213	-	-	-0.16	0.178	0.216
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Receiver on	23230	782	1	22.65	23.50	1.216	-	-	-0.02	0.138	0.168
04	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	23330	793	1	23.65	24.50	1.216	-	-	0.03	0.429	**0.522**
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Receiver on	23330	793	1	23.22	24.00	1.197	-	-	0.15	0.336	0.402
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	23330	793	1	23.65	24.50	1.216	-	-	-0.09	0.302	0.367
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Receiver on	23330	793	1	23.22	24.00	1.197	-	-	0.11	0.238	0.285
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	23330	793	1	23.65	24.50	1.216	-	-	-0.05	0.271	0.330
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Receiver on	23330	793	1	23.22	24.00	1.197	-	-	-0.08	0.209	0.250
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	23330	793	1	23.65	24.50	1.216	-	-	0.16	0.194	0.236
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Receiver on	23330	793	1	23.22	24.00	1.197	-	-	0.05	0.151	0.181
05	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	136100	680.5	1	23.22	24.00	1.197	-	-	-0.07	0.326	**0.390**
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	136100	680.5	1	23.12	24.00	1.225	-	-	0.1	0.302	0.370
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	136100	680.5	1	23.22	24.00	1.197	-	-	0.12	0.220	0.263
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	136100	680.5	1	23.12	24.00	1.225	-	-	0.08	0.217	0.266
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	136100	680.5	1	23.22	24.00	1.197	-	-	-0.17	0.196	0.235
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	136100	680.5	1	23.12	24.00	1.225	-	-	-0.03	0.177	0.217
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	136100	680.5	1	23.22	24.00	1.197	-	-	0.14	0.134	0.160
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	136100	680.5	1	23.12	24.00	1.225	-	-	0.11	0.127	0.156
06	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	141500	707.5	1	23.39	24.00	1.151	-	-	-0.19	0.416	**0.479**
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	141500	707.5	1	23.19	24.00	1.205	-	-	-0.1	0.387	0.466
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	141500	707.5	1	23.39	24.00	1.151	-	-	0.01	0.275	0.316
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	141500	707.5	1	23.19	24.00	1.205	-	-	-0.15	0.276	0.333
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	141500	707.5	1	23.39	24.00	1.151	-	-	0.19	0.237	0.273
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	141500	707.5	1	23.19	24.00	1.205	-	-	0.07	0.223	0.269
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	141500	707.5	1	23.39	24.00	1.151	-	-	-0.18	0.159	0.183
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	141500	707.5	1	23.19	24.00	1.205	-	-	0.03	0.155	0.187
07	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	156400	782	1	23.12	24.00	1.225	-	-	-0.06	0.452	**0.554**
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	156400	782	2	23.12	24.00	1.225	-	-	0.08	0.404	0.495

	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	156400	782	3	23.12	24.00	1.225	-	-	0.01	0.431	0.528
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	156400	782	4	23.12	24.00	1.225	-	-	0.09	0.411	0.503
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	156400	782	5	23.12	24.00	1.225	-	-	0.08	0.425	0.520
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	156400	782	1	23.05	24.00	1.245	-	-	-0.15	0.433	0.539
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	156400	782	1	23.12	24.00	1.225	-	-	0.11	0.322	0.394
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	156400	782	1	23.05	24.00	1.245	-	-	-0.08	0.296	0.368
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	156400	782	1	23.12	24.00	1.225	-	-	-0.17	0.263	0.322
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	156400	782	1	23.05	24.00	1.245	-	-	-0.08	0.253	0.315
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	156400	782	1	23.12	24.00	1.225	-	-	-0.04	0.199	0.244
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	156400	782	1	23.05	24.00	1.245	-	-	-0.08	0.180	0.224
08	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	158600	793	1	23.31	24.00	1.172	-	-	-0.13	0.394	**0.462**
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	158600	793	1	23.27	24.00	1.183	-	-	0.08	0.344	0.407
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	158600	793	1	23.31	24.00	1.172	-	-	0.01	0.272	0.319
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	158600	793	1	23.27	24.00	1.183	-	-	0.03	0.241	0.285
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	158600	793	1	23.31	24.00	1.172	-	-	-0.08	0.224	0.263
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	158600	793	1	23.27	24.00	1.183	-	-	-0.08	0.199	0.235
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	158600	793	1	23.31	24.00	1.172	-	-	0.1	0.160	0.188
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	158600	793	1	23.27	24.00	1.183	-	-	-0.18	0.144	0.170
835MHz																					
09	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	4182	836.4	1	21.09	22.00	1.233	-	-	0.14	0.412	**0.508**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	4182	836.4	2	21.09	22.00	1.233	-	-	0.03	0.319	0.393
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	4182	836.4	3	21.09	22.00	1.233	-	-	-0.08	0.352	0.434
	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	4182	836.4	4	21.09	22.00	1.233			0.08	0.381	0.470
	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	4182	836.4	5	21.09	22.00	1.233			0.01	0.342	0.422
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	Receiver on	4182	836.4	1	21.09	22.00	1.233	-	-	-0.13	0.278	0.343
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	Receiver on	4182	836.4	1	21.09	22.00	1.233	-	-	0.03	0.245	0.302
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	Receiver on	4182	836.4	1	21.09	22.00	1.233	-	-	-0.05	0.179	0.221
10	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	26865	831.5	1	21.69	22.50	1.205	-	-	-0.03	0.414	**0.499**
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	Receiver on	26865	831.5	1	21.67	22.50	1.211	-	-	0.05	0.332	0.402
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	26865	831.5	1	21.69	22.50	1.205	-	-	-0.15	0.310	0.374
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	Receiver on	26865	831.5	1	21.67	22.50	1.211	-	-	0.02	0.254	0.307
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	26865	831.5	1	21.69	22.50	1.205	-	-	0.07	0.261	0.315
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	Receiver on	26865	831.5	1	21.67	22.50	1.211	-	-	0.16	0.209	0.253
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	26865	831.5	1	21.69	22.50	1.205	-	-	0.13	0.194	0.234
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	Receiver on	26865	831.5	1	21.67	22.50	1.211	-	-	-0.18	0.155	0.188
11	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	166300	831.5	1	21.46	22.00	1.132	-	-	0.02	0.420	**0.476**
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	166300	831.5	1	21.43	22.00	1.140	-	-	0.01	0.404	0.461
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	166300	831.5	1	21.46	22.00	1.132	-	-	0.19	0.296	0.335
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	166300	831.5	1	21.43	22.00	1.140	-	-	0.07	0.287	0.327
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	166300	831.5	1	21.46	22.00	1.132	-	-	-0.18	0.262	0.297
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	166300	831.5	1	21.43	22.00	1.140	-	-	0.03	0.239	0.273
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	166300	831.5	1	21.46	22.00	1.132	-	-	-0.15	0.185	0.209
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	166300	831.5	1	21.43	22.00	1.140	-	-	-0.15	0.174	0.198
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	Receiver on	1413	1732.6	1	23.71	25.00	1.346	-	-	0.03	0.099	0.133
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	Receiver on	1413	1732.6	1	23.71	25.00	1.346	-	-	0.1	0.041	0.055
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Receiver on	1413	1732.6	1	23.71	25.00	1.346	-	-	0.16	0.129	0.174
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	Receiver on	1413	1732.6	1	23.71	25.00	1.346	-	-	-0.06	0.045	0.061
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Receiver on	1312	1712.4	1	23.63	25.00	1.371	-	-	-0.17	0.103	0.141
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Receiver on	1513	1752.6	1	23.61	25.00	1.377	-	-	0.11	0.106	0.146
12	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	1413	1732.6	1	21.86	22.50	1.159	-	-	-0.06	0.465	**0.539**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	Receiver on	1413	1732.6	1	21.86	22.50	1.159	-	-	0.05	0.272	0.315
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	Receiver on	1413	1732.6	1	21.86	22.50	1.159	-	-	-0.03	0.214	0.248
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	Receiver on	1413	1732.6	1	21.86	22.50	1.159	-	-	0.17	0.135	0.156
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	1312	1712.4	1	21.74	22.50	1.191	-	-	0.02	0.443	0.528
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	1513	1752.6	1	21.84	22.50	1.164	-	-	-0.16	0.457	0.532

	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Receiver on	132322	1745	1	23.28	24.00	1.180	-	-	-0.11	0.091	0.107
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Receiver on	132322	1745	1	22.07	23.00	1.239	-	-	-0.06	0.073	0.090
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Receiver on	132322	1745	1	23.28	24.00	1.180	-	-	-0.15	0.000	0.000
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Receiver on	132322	1745	1	22.07	23.00	1.239	-	-	0.03	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	132322	1745	1	23.28	24.00	1.180	-	-	-0.13	0.114	0.135
	LTE Band 66C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 0	Receiver on	132322+ 132520	1745+ 1764.8	1	23.19	24.00	1.205	-	-	0.09	0.093	0.112
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Receiver on	132322	1745	1	22.07	23.00	1.239	-	-	0.16	0.100	0.124
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Receiver on	132322	1745	1	23.28	24.00	1.180	-	-	-0.15	0.000	0.000
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Receiver on	132322	1745	1	22.07	23.00	1.239	-	-	-0.02	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	132072	1720	1	23.21	24.00	1.199	-	-	-0.05	0.106	0.127
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	132572	1770	1	23.01	24.00	1.256	-	-	-0.01	0.095	0.119
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	132322	1745	1	22.21	23.00	1.199	-	-	-0.04	0.427	0.512
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Receiver on	132322	1745	1	22.18	23.00	1.208	-	-	-0.06	0.337	0.407
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	132322	1745	1	22.21	23.00	1.199	-	-	-0.09	0.221	0.265
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Receiver on	132322	1745	1	22.18	23.00	1.208	-	-	-0.17	0.181	0.219
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	132322	1745	1	22.21	23.00	1.199	-	-	-0.1	0.152	0.182
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Receiver on	132322	1745	1	22.18	23.00	1.208	-	-	0.18	0.133	0.161
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	132322	1745	1	22.21	23.00	1.199	-	-	-0.17	0.136	0.163
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Receiver on	132322	1745	1	22.18	23.00	1.208	-	-	-0.04	0.123	0.149
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	132072	1720	1	22.13	23.00	1.222	-	-	0.01	0.404	0.494
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	132572	1770	1	22.18	23.00	1.208	-	-	-0.01	0.416	0.502
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	Receiver on	132322	1745	1	16.74	17.50	1.191	-	-	-0.1	0.354	0.422
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	Receiver on	132322	1745	1	16.72	17.50	1.197	-	-	0.19	0.354	0.424
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	Receiver on	132322	1745	1	16.74	17.50	1.191	-	-	-0.15	0.404	0.481
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	Receiver on	132322	1745	1	16.72	17.50	1.197	-	-	-0.08	0.392	0.469
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	Receiver on	132322	1745	1	16.74	17.50	1.191	-	-	-0.08	0.424	0.505
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	Receiver on	132322	1745	1	16.72	17.50	1.197	-	-	-0.04	0.419	0.501
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	Receiver on	132322	1745	1	16.74	17.50	1.191	-	-	0.06	0.411	0.490
13	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132322	1745	1	16.72	17.50	1.197	-	-	-0.14	0.456	**0.546**
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132322	1745	2	16.72	17.50	1.197	-	-	-0.08	0.401	0.480
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132322	1745	3	16.72	17.50	1.197	-	-	0.1	0.422	0.505
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132322	1745	4	16.72	17.50	1.197	-	-	0.01	0.404	0.483
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132322	1745	5	16.72	17.50	1.197	-	-	0.03	0.375	0.449
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132072	1720	1	16.66	17.50	1.213	-	-	0.08	0.441	0.535
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	Receiver on	132572	1770	1	16.70	17.50	1.202	-	-	0.05	0.374	0.450
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	-0.09	0.070	0.085
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	0.14	0.073	0.089
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	0.1	0.000	0.000
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	-0.09	0.000	0.000
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	0.07	0.085	0.103
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	-0.09	0.091	0.111
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	-0.16	0.000	0.000
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	349000	1745	1	23.15	24.00	1.216	-	-	-0.18	0.000	0.000
14	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	349000	1745	1	22.45	24.00	1.429	-	-	-0.04	0.429	**0.613**
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	349000	1745	2	22.45	24.00	1.429	-	-	0.03	0.401	0.573
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	349000	1745	3	22.45	24.00	1.429	-	-	-0.08	0.422	0.603
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	349000	1745	4	22.45	24.00	1.429	-	-	0.03	0.388	0.554
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	349000	1745	5	22.45	24.00	1.429	-	-	-0.08	0.307	0.439
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	349000	1745	1	22.38	24.00	1.452	-	-	0.11	0.396	0.575
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	349000	1745	1	22.45	24.00	1.429	-	-	-0.08	0.212	0.303
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	349000	1745	1	22.38	24.00	1.452	-	-	-0.17	0.202	0.293
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	349000	1745	1	22.45	24.00	1.429	-	-	-0.08	0.192	0.274
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	349000	1745	1	22.38	24.00	1.452	-	-	-0.04	0.182	0.264
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	349000	1745	1	22.45	24.00	1.429	-	-	-0.08	0.195	0.279
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	349000	1745	1	22.38	24.00	1.452	-	-	0.17	0.182	0.264
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	Receiver on	349000	1745	1	16.37	17.00	1.156	-	-	0.16	0.348	0.402

	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	Receiver on	349000	1745	1	16.35	17.00	1.161	-	-	0.05	0.328	0.381
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	Receiver on	349000	1745	1	16.37	17.00	1.156	-	-	-0.07	0.395	0.457
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	Receiver on	349000	1745	1	16.35	17.00	1.161	-	-	-0.03	0.373	0.433
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	Receiver on	349000	1745	1	16.37	17.00	1.156	-	-	0.02	0.383	0.443
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	Receiver on	349000	1745	1	16.35	17.00	1.161	-	-	0.07	0.393	0.456
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	Receiver on	349000	1745	1	16.37	17.00	1.156	-	-	0.13	0.385	0.445
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	Receiver on	349000	1745	1	16.35	17.00	1.161	-	-	-0.18	0.385	0.447
1900MHz																					
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	Receiver on	9400	1880	1	23.73	25.00	1.340	-	-	-0.17	0.082	0.110
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	Receiver on	9400	1880	1	23.73	25.00	1.340	-	-	-0.01	0.069	0.092
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Receiver on	9400	1880	1	23.73	25.00	1.340	-	-	-0.11	0.138	0.185
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	Receiver on	9400	1880	1	23.73	25.00	1.340	-	-	0.14	0.060	0.080
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Receiver on	9262	1852.4	1	23.71	25.00	1.346	-	-	0.02	0.106	0.143
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	Receiver on	9538	1907.6	1	23.55	25.00	1.396	-	-	-0.11	0.114	0.159
15	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	9400	1880	1	19.36	20.00	1.159	-	-	0.11	0.457	**0.530**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	Receiver on	9400	1880	1	19.36	20.00	1.159	-	-	-0.13	0.157	0.182
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	Receiver on	9400	1880	1	19.36	20.00	1.159	-	-	-0.01	0.169	0.196
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	Receiver on	9400	1880	1	19.36	20.00	1.159	-	-	0.02	0.089	0.103
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	9262	1852.4	1	19.20	20.00	1.202	-	-	0	0.310	0.373
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	Receiver on	9538	1907.6	1	19.28	20.00	1.180	-	-	-0.05	0.425	0.502
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Receiver on	26340	1880	1	23.17	24.00	1.211	-	-	-0.07	0.069	0.084
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Receiver on	26340	1880	1	22.13	23.00	1.222	-	-	0.11	0.057	0.070
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Receiver on	26340	1880	1	23.17	24.00	1.211	-	-	-0.08	0.062	0.075
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Receiver on	26340	1880	1	22.13	23.00	1.222	-	-	-0.1	0.047	0.057
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	26340	1880	1	23.17	24.00	1.211	-	-	-0.01	0.110	0.133
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Receiver on	26340	1880	1	22.13	23.00	1.222	-	-	-0.09	0.088	0.108
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Receiver on	26340	1880	1	23.17	24.00	1.211	-	-	-0.06	0.061	0.074
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Receiver on	26340	1880	1	22.13	23.00	1.222	-	-	-0.17	0.049	0.060
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	26140	1860	1	23.10	24.00	1.230	-	-	-0.01	0.106	0.130
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	26590	1905	1	22.98	24.00	1.265	-	-	0.09	0.101	0.128
16	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	26340	1880	1	19.69	20.50	1.205	-	-	0.03	0.404	**0.487**
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Receiver on	26340	1880	1	19.66	20.50	1.213	-	-	0.1	0.305	0.370
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	26340	1880	1	19.69	20.50	1.205	-	-	-0.11	0.184	0.222
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Receiver on	26340	1880	1	19.66	20.50	1.213	-	-	-0.06	0.147	0.178
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	26340	1880	1	19.69	20.50	1.205	-	-	-0.15	0.197	0.237
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Receiver on	26340	1880	1	19.66	20.50	1.213	-	-	0.03	0.155	0.188
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	26340	1880	1	19.69	20.50	1.205	-	-	-0.13	0.151	0.182
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Receiver on	26340	1880	1	19.66	20.50	1.213	-	-	0.16	0.120	0.146
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	26140	1860	1	19.56	20.50	1.242	-	-	-0.16	0.331	0.411
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	26590	1905	1	19.64	20.50	1.219	-	-	0.03	0.395	0.482
	LTE Band 2	20M	QPSK	1	0		Right Cheek	0mm	Ant 5	Receiver on	18900	1880	1	18.17	19.00	1.211	-	-	0.08	0.308	0.373
	LTE Band 2	20M	QPSK	50	0		Right Cheek	0mm	Ant 5	Receiver on	18900	1880	1	18.13	19.00	1.222	-	-	0.01	0.287	0.351
	LTE Band 2	20M	QPSK	1	0		Right Tilted	0mm	Ant 5	Receiver on	18900	1880	1	18.17	19.00	1.211	-	-	0.03	0.327	0.396
	LTE Band 2	20M	QPSK	50	0		Right Tilted	0mm	Ant 5	Receiver on	18900	1880	1	18.13	19.00	1.222	-	-	-0.08	0.307	0.375
	LTE Band 2	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	Receiver on	18900	1880	1	18.17	19.00	1.211	-	-	-0.08	0.391	0.473
	LTE Band 2	20M	QPSK	50	0		Left Cheek	0mm	Ant 5	Receiver on	18900	1880	1	18.13	19.00	1.222	-	-	0.1	0.364	0.445
	LTE Band 2	20M	QPSK	1	0		Left Tilted	0mm	Ant 5	Receiver on	18900	1880	1	18.17	19.00	1.211	-	-	-0.18	0.320	0.387
	LTE Band 2	20M	QPSK	50	0		Left Tilted	0mm	Ant 5	Receiver on	18900	1880	1	18.13	19.00	1.222	-	-	0.1	0.300	0.367
	LTE Band 2	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	Receiver on	18700	1860	1	18.09	19.00	1.233	-	-	0.12	0.381	0.470
	LTE Band 2	20M	QPSK	1	0		Left Cheek	0mm	Ant 5	Receiver on	19100	1900	1	18.10	19.00	1.230	-	-	0.08	0.332	0.408
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	376500	1882.5	1	23.02	24.00	1.253	-	-	-0.01	0.056	0.070
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	376500	1882.5	1	22.96	24.00	1.271	-	-	-0.11	0.062	0.079
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	376500	1882.5	1	23.02	24.00	1.253	-	-	0.14	0.044	0.055
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	376500	1882.5	1	22.96	24.00	1.271	-	-	0.03	0.049	0.062
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	376500	1882.5	1	23.02	24.00	1.253	-	-	0.1	0.091	0.114
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	376500	1882.5	1	22.96	24.00	1.271	-	-	0.16	0.096	0.122

	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	376500	1882.5	1	23.02	24.00	1.253	-	-	-0.06	0.000	0.000
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	376500	1882.5	1	22.96	24.00	1.271	-	-	0.02	0.042	0.053
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	376500	1882.5	1	20.03	21.50	1.403	-	-	0.16	0.314	0.440
17	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	376500	1882.5	1	19.96	21.50	1.426	-	-	-0.09	0.375	**0.535**
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	376500	1882.5	2	19.96	21.50	1.426	-	-	0.12	0.311	0.443
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	376500	1882.5	3	19.96	21.50	1.426	-	-	0.08	0.352	0.502
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	376500	1882.5	4	19.96	21.50	1.426	-	-	-0.08	0.350	0.499
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	376500	1882.5	5	19.96	21.50	1.426	-	-	-0.08	0.333	0.475
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	376500	1882.5	1	20.03	21.50	1.403	-	-	0.07	0.178	0.250
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	376500	1882.5	1	19.96	21.50	1.426	-	-	0	0.193	0.275
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	376500	1882.5	1	20.03	21.50	1.403	-	-	0.01	0.135	0.189
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	376500	1882.5	1	19.96	21.50	1.426	-	-	-0.01	0.162	0.231
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	376500	1882.5	1	20.03	21.50	1.403	-	-	-0.06	0.091	0.128
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	376500	1882.5	1	19.96	21.50	1.426	-	-	-0.04	0.100	0.143
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	Receiver on	376500	1882.5	1	18.49	19.00	1.125	-	-	-0.09	0.304	0.342
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	Receiver on	376500	1882.5	1	18.47	19.00	1.130	-	-	-0.17	0.273	0.308
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	Receiver on	376500	1882.5	1	18.49	19.00	1.125	-	-	0.18	0.327	0.368
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	Receiver on	376500	1882.5	1	18.47	19.00	1.130	-	-	-0.17	0.284	0.321
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	Receiver on	376500	1882.5	1	18.49	19.00	1.125	-	-	-0.18	0.370	0.416
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	Receiver on	376500	1882.5	1	18.47	19.00	1.130	-	-	-0.05	0.345	0.390
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	Receiver on	376500	1882.5	1	18.49	19.00	1.125	-	-	-0.13	0.321	0.361
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	Receiver on	376500	1882.5	1	18.47	19.00	1.130	-	-	-0.01	0.279	0.315
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Receiver on	27710	2310	1	22.53	23.00	1.114	-	-	-0.16	0.075	0.084
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	Receiver on	27710	2310	1	21.53	22.00	1.114	-	-	0.05	0.060	0.067
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Receiver on	27710	2310	1	22.53	23.00	1.114	-	-	-0.03	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	Receiver on	27710	2310	1	21.53	22.00	1.114	-	-	0.17	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	27710	2310	1	22.53	23.00	1.114	-	-	-0.15	0.042	0.047
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	Receiver on	27710	2310	1	21.53	22.00	1.114	-	-	0.16	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Receiver on	27710	2310	1	22.53	23.00	1.114	-	-	0.05	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	Receiver on	27710	2310	1	21.53	22.00	1.114	-	-	-0.06	0.000	0.000
18	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	27710	2310	1	15.62	16.50	1.225	-	-	0.03	0.420	**0.514**
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	Receiver on	27710	2310	1	15.58	16.50	1.236	-	-	0.17	0.331	0.409
	LTE Band 30	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Receiver on	27710	2310	1	15.53	16.50	1.250	-	-	-0.15	0.318	0.398
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	27710	2310	1	15.62	16.50	1.225	-	-	0.16	0.230	0.282
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	Receiver on	27710	2310	1	15.58	16.50	1.236	-	-	0.05	0.179	0.221
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	27710	2310	1	15.62	16.50	1.225	-	-	-0.06	0.153	0.187
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	Receiver on	27710	2310	1	15.58	16.50	1.236	-	-	-0.13	0.128	0.158
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	27710	2310	1	15.62	16.50	1.225	-	-	-0.01	0.095	0.116
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	Receiver on	27710	2310	1	15.58	16.50	1.236	-	-	-0.11	0.074	0.091
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	27710	2310	1	22.43	24.00	1.435	-	-	-0.11	0.355	0.510
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	27710	2310	2	22.43	24.00	1.435	-	-	-0.18	0.322	0.462
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	27710	2310	3	22.43	24.00	1.435	-	-	0.17	0.349	0.501
	LTE Band 30	10M	QPSK	1	0		Right Cheek	0mm	Ant 2	Receiver on	27710	2310	4	22.43	24.00	1.435			-0.08	0.333	0.478
	LTE Band 30	10M	QPSK	1	0		Right Cheek	0mm	Ant 2	Receiver on	27710	2310	5	22.43	24.00	1.435			0.1	0.327	0.469
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	Receiver on	27710	2310	1	21.58	23.00	1.387	-	-	0.17	0.275	0.381
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	Receiver on	27710	2310	1	22.43	24.00	1.435	-	-	-0.16	0.146	0.210
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	Receiver on	27710	2310	1	21.58	23.00	1.387	-	-	-0.17	0.116	0.161
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	Receiver on	27710	2310	1	22.43	24.00	1.435	-	-	0.11	0.207	0.297
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	Receiver on	27710	2310	1	21.58	23.00	1.387	-	-	-0.05	0.164	0.227
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	Receiver on	27710	2310	1	22.43	24.00	1.435	-	-	-0.01	0.164	0.235
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	Receiver on	27710	2310	1	21.58	23.00	1.387	-	-	-0.14	0.120	0.166
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	462000	2310	1	22.83	24.00	1.309	-	-	-0.13	0.079	0.103
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	462000	2310	1	22.81	24.00	1.315	-	-	-0.01	0.078	0.103
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	462000	2310	1	22.83	24.00	1.309	-	-	-0.11	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	462000	2310	1	22.81	24.00	1.315	-	-	0.19	0.000	0.000

	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	462000	2310	1	22.83	24.00	1.309	-	-	-0.14	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	462000	2310	1	22.81	24.00	1.315	-	-	-0.18	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	462000	2310	1	22.83	24.00	1.309	-	-	-0.06	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	462000	2310	1	22.81	24.00	1.315	-	-	0.02	0.000	0.000
19	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	1	18.22	19.00	1.197	-	-	0.1	0.437	**0.523**
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	2	18.22	19.00	1.197	-	-	0.05	0.404	0.483
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	3	18.22	19.00	1.197	-	-	-0.17	0.421	0.504
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	4	18.22	19.00	1.197	-	-	0.1	0.397	0.475
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	5	18.22	19.00	1.197	-	-	-0.18	0.320	0.383
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	1	18.20	19.00	1.202	-	-	0.04	0.420	0.505
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	462000	2310	1	18.16	19.00	1.213	-	-	0.13	0.430	0.522
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	462000	2310	1	18.22	19.00	1.197	-	-	-0.18	0.218	0.261
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	462000	2310	1	18.20	19.00	1.202	-	-	-0.11	0.209	0.251
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	462000	2310	1	18.22	19.00	1.197	-	-	-0.16	0.131	0.157
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	462000	2310	1	18.20	19.00	1.202	-	-	-0.15	0.134	0.161
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	462000	2310	1	18.22	19.00	1.197	-	-	-0.06	0.071	0.085
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	462000	2310	1	18.20	19.00	1.202	-	-	-0.14	0.073	0.088
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	Receiver on	462000	2310	1	23.08	24.00	1.236	-	-	-0.01	0.341	0.421
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	Receiver on	462000	2310	1	22.90	24.00	1.288	-	-	-0.12	0.338	0.435
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	Receiver on	462000	2310	1	23.08	24.00	1.236	-	-	0.07	0.150	0.185
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	Receiver on	462000	2310	1	22.90	24.00	1.288	-	-	0.09	0.147	0.189
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	Receiver on	462000	2310	1	23.08	24.00	1.236	-	-	0.04	0.198	0.245
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	Receiver on	462000	2310	1	22.90	24.00	1.288	-	-	0.11	0.188	0.242
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	Receiver on	462000	2310	1	23.08	24.00	1.236	-	-	-0.13	0.162	0.200
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	Receiver on	462000	2310	1	22.90	24.00	1.288	-	-	0.12	0.156	0.201
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Receiver on	21100	2535	1	22.45	23.00	1.135	-	-	0.16	0.100	0.114
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Receiver on	21100	2535	1	21.54	22.00	1.112	-	-	0.01	0.081	0.090
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Receiver on	21100	2535	1	22.45	23.00	1.135	-	-	-0.04	0.042	0.048
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Receiver on	21100	2535	1	21.54	22.00	1.112	-	-	0.13	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	21100	2535	1	22.45	23.00	1.135	-	-	0.12	0.113	0.128
	LTE Band 7C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 0	Receiver on	21100+ 21298	2535+ 2554.8	1	22.25	23.00	1.189	-	-	0.06	0.095	0.113
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Receiver on	21100	2535	1	21.54	22.00	1.112	-	-	0.07	0.092	0.102
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Receiver on	21100	2535	1	22.45	23.00	1.135	-	-	0.08	0.000	0.000
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Receiver on	21100	2535	1	21.54	22.00	1.112	-	-	0.19	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	20850	2510	1	22.27	23.00	1.183	-	-	0.08	0.106	0.125
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	21350	2560	1	22.42	23.00	1.143	-	-	-0.18	0.103	0.118
20	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	21100	2535	1	13.36	14.50	1.300	-	-	0.05	0.401	**0.521**
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Receiver on	21100	2535	1	13.34	14.50	1.306	-	-	0	0.294	0.384
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	21100	2535	1	13.36	14.50	1.300	-	-	-0.02	0.250	0.325
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Receiver on	21100	2535	1	13.34	14.50	1.306	-	-	0.13	0.203	0.265
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	21100	2535	1	13.36	14.50	1.300	-	-	-0.15	0.127	0.165
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Receiver on	21100	2535	1	13.34	14.50	1.306	-	-	-0.19	0.102	0.133
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	21100	2535	1	13.36	14.50	1.300	-	-	0.06	0.120	0.156
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Receiver on	21100	2535	1	13.34	14.50	1.306	-	-	-0.16	0.093	0.121
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	20850	2510	1	13.22	14.50	1.343	-	-	0.17	0.367	0.493
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	21350	2560	1	13.31	14.50	1.315	-	-	0.06	0.392	0.516
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	21100	2535	1	23.07	24.00	1.239	-	-	-0.06	0.229	0.284
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	Receiver on	21100	2535	1	22.05	23.00	1.245	-	-	0	0.188	0.234
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	Receiver on	21100	2535	1	23.07	24.00	1.239	-	-	-0.03	0.146	0.181
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	Receiver on	21100	2535	1	22.05	23.00	1.245	-	-	0.07	0.135	0.168
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	Receiver on	21100	2535	1	23.07	24.00	1.239	-	-	-0.12	0.213	0.264
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	Receiver on	21100	2535	1	22.05	23.00	1.245	-	-	-0.03	0.187	0.233
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	Receiver on	21100	2535	1	23.07	24.00	1.239	-	-	0.02	0.191	0.237
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	Receiver on	21100	2535	1	22.05	23.00	1.245	-	-	0.12	0.170	0.212
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	20850	2510	1	22.93	24.00	1.279	-	-	-0.03	0.215	0.275

	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	21350	2560	1	23.05	24.00	1.245	-	-	-0.04	0.209	0.260
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	Receiver on	40620	2593	1	22.41	23.00	1.146	62.9	1.006	0.02	0.073	0.084
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	Receiver on	40620	2593	1	21.46	22.00	1.132	62.9	1.006	-0.03	0.048	0.055
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	Receiver on	40620	2593	1	22.41	23.00	1.146	62.9	1.006	0	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	Receiver on	40620	2593	1	21.46	22.00	1.132	62.9	1.006	-0.1	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	40620	2593	1	22.41	23.00	1.146	62.9	1.006	0.05	0.104	0.120
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 0	Receiver on	40620+ 40818	2593+ 2612.8	1	22.22	23.00	1.197	62.9	1.006	0.09	0.095	0.114
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	Receiver on	40620	2593	1	21.46	22.00	1.132	62.9	1.006	0	0.091	0.104
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	Receiver on	40620	2593	1	22.41	23.00	1.146	62.9	1.006	0.07	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	Receiver on	40620	2593	1	21.46	22.00	1.132	62.9	1.006	0.15	0.000	0.000
	LTE Band 41 _HPUE	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	Receiver on	40620	2593	1	25.41	26.00	1.146	42.9	1.009	-0.05	0.131	0.151
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	40620	2593	1	14.55	15.50	1.245	62.9	1.006	0.13	0.314	0.393
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	Receiver on	40620	2593	1	14.53	15.50	1.250	62.9	1.006	0.16	0.224	0.282
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	Receiver on	40620	2593	1	14.55	15.50	1.245	62.9	1.006	-0.11	0.199	0.249
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	Receiver on	40620	2593	1	14.53	15.50	1.250	62.9	1.006	-0.15	0.164	0.206
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	Receiver on	40620	2593	1	14.55	15.50	1.245	62.9	1.006	-0.09	0.095	0.119
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	Receiver on	40620	2593	1	14.53	15.50	1.250	62.9	1.006	-0.16	0.076	0.096
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	Receiver on	40620	2593	1	14.55	15.50	1.245	62.9	1.006	-0.18	0.102	0.128
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	Receiver on	40620	2593	1	14.53	15.50	1.250	62.9	1.006	-0.07	0.079	0.099
21	LTE Band 41 _HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	Receiver on	40620	2593	1	17.52	18.50	1.253	42.9	1.009	-0.04	0.409	**0.517**
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.15	0.235	0.297
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	Receiver on	40620	2593	1	22.06	23.00	1.242	62.9	1.006	-0.12	0.191	0.239
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	Receiver on	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.17	0.164	0.207
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	Receiver on	40620	2593	1	22.06	23.00	1.242	62.9	1.006	0.08	0.135	0.169
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	Receiver on	40620	2593	1	23.01	24.00	1.256	62.9	1.006	0.01	0.199	0.251
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	Receiver on	40620	2593	1	22.06	23.00	1.242	62.9	1.006	0.02	0.153	0.191
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	Receiver on	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.11	0.200	0.253
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	Receiver on	40620	2593	1	22.06	23.00	1.242	62.9	1.006	-0.01	0.162	0.202
	LTE Band 41 _HPUE	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	40620	2593	1	26.12	27.00	1.225	42.9	1.009	0.09	0.325	0.402
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	507000	2535	1	22.84	24.00	1.306	-	-	-0.08	0.099	0.129
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	Receiver on	507000	2535	1	22.83	24.00	1.309	-	-	-0.08	0.100	0.131
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	507000	2535	1	22.84	24.00	1.306	-	-	-0.13	0.054	0.071
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	Receiver on	507000	2535	1	22.83	24.00	1.309	-	-	0.01	0.049	0.064
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	507000	2535	1	22.84	24.00	1.306	-	-	-0.11	0.103	0.135
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	Receiver on	507000	2535	1	22.83	24.00	1.309	-	-	0.03	0.109	0.143
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	507000	2535	1	22.84	24.00	1.306	-	-	-0.05	0.045	0.059
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	Receiver on	507000	2535	1	22.83	24.00	1.309	-	-	0.14	0.000	0.000
22	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	507000	2535	1	14.07	15.00	1.239	-	-	0.02	0.400	**0.496**
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	Receiver on	507000	2535	1	14.05	15.00	1.245	-	-	0.02	0.383	0.477
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	507000	2535	1	14.07	15.00	1.239	-	-	-0.13	0.259	0.321
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	Receiver on	507000	2535	1	14.05	15.00	1.245	-	-	0.17	0.259	0.322
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	507000	2535	1	14.07	15.00	1.239	-	-	0	0.133	0.165
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	Receiver on	507000	2535	1	14.05	15.00	1.245	-	-	-0.04	0.129	0.161
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	507000	2535	1	14.07	15.00	1.239	-	-	0.11	0.110	0.136
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	Receiver on	507000	2535	1	14.05	15.00	1.245	-	-	-0.02	0.110	0.137
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	Receiver on	518598	2592.99	1	25.72	27.00	1.343	-	-	-0.03	0.211	0.283
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 0	Receiver on	518598	2592.99	1	25.42	27.00	1.439	-	-	-0.04	0.223	0.321
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	Receiver on	518598	2592.99	1	25.72	27.00	1.343	-	-	-0.09	0.101	0.136
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 0	Receiver on	518598	2592.99	1	25.42	27.00	1.439	-	-	0.18	0.129	0.186
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	Receiver on	518598	2592.99	1	25.72	27.00	1.343	-	-	0.11	0.190	0.255
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 0	Receiver on	518598	2592.99	1	25.42	27.00	1.439	-	-	0.07	0.228	0.328
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	Receiver on	518598	2592.99	1	25.72	27.00	1.343	-	-	-0.03	0.062	0.083
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 0	Receiver on	518598	2592.99	1	25.42	27.00	1.439	-	-	0.09	0.079	0.114
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	Receiver on	518598	2592.99	1	14.21	15.00	1.199	-	-	-0.19	0.392	0.470
23	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	Receiver on	518598	2592.99	1	14.18	15.00	1.208	-	-	0.04	0.428	**0.517**

	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	Receiver on	518598	2592.99	1	14.21	15.00	1.199	-	-	0.06	0.245	0.294
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	Receiver on	518598	2592.99	1	14.18	15.00	1.208	-	-	0.02	0.272	0.329
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	Receiver on	518598	2592.99	1	14.21	15.00	1.199	-	-	-0.16	0.118	0.142
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	Receiver on	518598	2592.99	1	14.18	15.00	1.208	-	-	-0.12	0.128	0.155
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	Receiver on	518598	2592.99	1	14.21	15.00	1.199	-	-	-0.02	0.098	0.118
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	Receiver on	518598	2592.99	1	14.18	15.00	1.208	-	-	-0.05	0.119	0.144
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	518598	2592.99	1	24.07	25.00	1.239	-	-	0.08	0.143	0.177
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.09	0.355	0.442
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	518598	2592.99	1	24.07	25.00	1.239	-	-	0.01	0.102	0.126
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.16	0.248	0.309
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	518598	2592.99	1	24.07	25.00	1.239	-	-	0.1	0.122	0.151
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.04	0.303	0.377
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	518598	2592.99	1	24.07	25.00	1.239	-	-	-0.01	0.108	0.134
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	518598	2592.99	1	24.05	25.00	1.245	-	-	0	0.289	0.360
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	518598	2592.99	1	24.56	26.00	1.393	-	-	0.08	0.035	0.049
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	518598	2592.99	1	24.47	26.00	1.422	-	-	0.01	0.026	0.037
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	518598	2592.99	1	24.56	26.00	1.393	-	-	0.03	0.034	0.047
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	518598	2592.99	1	24.47	26.00	1.422	-	-	-0.08	0.021	0.030
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	518598	2592.99	1	24.56	26.00	1.393	-	-	-0.08	0.059	0.082
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	518598	2592.99	1	24.47	26.00	1.422	-	-	0.1	0.055	0.078
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	518598	2592.99	1	24.56	26.00	1.393	-	-	-0.18	0.033	0.046
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	518598	2592.99	1	24.47	26.00	1.422	-	-	0.1	0.037	0.053
3500MHz																				
24	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	42590	3500	1	22.65	24.00	1.365	62.9	1.006	0.04	0.411	**0.564**
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	Receiver on	42590	3500	1	22.63	24.00	1.371	62.9	1.006	-0.08	0.330	0.455
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	Receiver on	42590	3500	1	22.65	24.00	1.365	62.9	1.006	-0.13	0.301	0.413
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	Receiver on	42590	3500	1	22.63	24.00	1.371	62.9	1.006	-0.03	0.242	0.334
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	Receiver on	42590	3500	1	22.65	24.00	1.365	62.9	1.006	0.02	0.174	0.239
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	Receiver on	42590	3500	1	22.63	24.00	1.371	62.9	1.006	0.02	0.131	0.181
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	Receiver on	42590	3500	1	22.65	24.00	1.365	62.9	1.006	0.11	0.160	0.220
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	Receiver on	42590	3500	1	22.63	24.00	1.371	62.9	1.006	-0.17	0.126	0.174
25	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	55830	3609	1	22.94	24.00	1.276	62.9	1.006	0.07	0.431	**0.553**
	LTE Band 48C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 2	Receiver on	55830+ 56028	3609+ 3628.8	1	22.75	24.00	1.334	62.9	1.006	0.06	0.407	0.546
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	55340	3560	1	22.83	24.00	1.309	62.9	1.006	0.03	0.417	0.549
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	56150	3641	1	22.90	24.00	1.288	62.9	1.006	-0.08	0.364	0.472
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	Receiver on	56640	3690	1	22.92	24.00	1.282	62.9	1.006	-0.1	0.394	0.508
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	Receiver on	55830	3609	1	22.91	24.00	1.285	62.9	1.006	-0.01	0.301	0.389
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	Receiver on	55830	3609	1	22.94	24.00	1.276	62.9	1.006	-0.06	0.286	0.367
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	Receiver on	55830	3609	1	22.91	24.00	1.285	62.9	1.006	-0.17	0.217	0.281
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	Receiver on	55830	3609	1	22.94	24.00	1.276	62.9	1.006	-0.01	0.199	0.256
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	Receiver on	55830	3609	1	22.91	24.00	1.285	62.9	1.006	-0.11	0.173	0.224
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	Receiver on	55830	3609	1	22.94	24.00	1.276	62.9	1.006	0.14	0.157	0.202
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	Receiver on	55830	3609	1	22.91	24.00	1.285	62.9	1.006	0.03	0.123	0.159
26	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	641666	3624.99	1	20.94	22.00	1.276	-	-	0.03	0.450	**0.574**
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	641666	3624.99	2	20.94	22.00	1.276	-	-	0.06	0.411	0.525
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	641666	3624.99	3	20.94	22.00	1.276	-	-	-0.01	0.439	0.560
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	641666	3624.99	4	20.94	22.00	1.276	-	-	-0.18	0.381	0.486
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	641666	3624.99	5	20.94	22.00	1.276	-	-	0.1	0.300	0.383
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	641666	3624.99	1	20.92	22.00	1.282	-	-	-0.11	0.404	0.518
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	641666	3624.99	1	20.94	22.00	1.276	-	-	0.03	0.347	0.443
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	641666	3624.99	1	20.92	22.00	1.282	-	-	-0.16	0.305	0.391
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	641666	3624.99	1	20.94	22.00	1.276	-	-	-0.02	0.285	0.364
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	641666	3624.99	1	20.92	22.00	1.282	-	-	0.15	0.266	0.341
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	641666	3624.99	1	20.94	22.00	1.276	-	-	-0.09	0.203	0.259

	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	641666	3624.99	1	20.92	22.00	1.282	-	-	0.11	0.184	0.236
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	641666	3624.99	1	21.87	23.00	1.297	-	-	0.12	0.037	0.048
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	641666	3624.99	1	21.76	23.00	1.330	-	-	0.08	0.000	0.000
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	641666	3624.99	1	21.87	23.00	1.297	-	-	-0.17	0.041	0.053
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	641666	3624.99	1	21.76	23.00	1.330	-	-	-0.03	0.037	0.049
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	641666	3624.99	1	21.87	23.00	1.297	-	-	0.14	0.066	0.086
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	641666	3624.99	1	21.76	23.00	1.330	-	-	0.11	0.058	0.077
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	641666	3624.99	1	21.87	23.00	1.297	-	-	-0.05	0.033	0.043
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	641666	3624.99	1	21.76	23.00	1.330	-	-	0.18	0.040	0.053
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	Receiver on	641666	3624.99	1	17.47	18.50	1.268	-	-	0.08	0.157	0.199
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	Receiver on	641666	3624.99	1	17.45	18.50	1.274	-	-	0.01	0.167	0.213
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	Receiver on	641666	3624.99	1	17.47	18.50	1.268	-	-	0.03	0.087	0.110
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	Receiver on	641666	3624.99	1	17.45	18.50	1.274	-	-	-0.08	0.084	0.107
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	Receiver on	641666	3624.99	1	17.47	18.50	1.268	-	-	-0.09	0.403	0.511
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	Receiver on	641666	3624.99	1	17.45	18.50	1.274	-	-	0.1	0.377	0.480
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	Receiver on	641666	3624.99	1	17.47	18.50	1.268	-	-	-0.18	0.189	0.240
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	Receiver on	641666	3624.99	1	17.45	18.50	1.274	-	-	0.1	0.170	0.216
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Receiver on	641666	3624.99	1	17.43	18.50	1.279	-	-	-0.01	0.181	0.232
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Receiver on	641666	3624.99	1	17.41	18.50	1.285	-	-	-0.09	0.177	0.227
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Receiver on	641666	3624.99	1	17.43	18.50	1.279	-	-	0.05	0.205	0.262
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Receiver on	641666	3624.99	1	17.41	18.50	1.285	-	-	0.02	0.181	0.233
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	641666	3624.99	1	17.43	18.50	1.279	-	-	0.03	0.335	0.429
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	641666	3624.99	1	17.41	18.50	1.285	-	-	0.17	0.276	0.355
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Receiver on	641666	3624.99	1	17.43	18.50	1.279	-	-	0.06	0.320	0.409
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Receiver on	641666	3624.99	1	17.41	18.50	1.285	-	-	0	0.278	0.357
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	656000	3840	1	19.07	19.50	1.104	-	-	-0.02	0.431	0.476
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	656000	3840	1	19.05	19.50	1.109	-	-	-0.08	0.368	0.408
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	656000	3840	1	19.07	19.50	1.104	-	-	0.17	0.247	0.273
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	656000	3840	1	19.05	19.50	1.109	-	-	0.18	0.187	0.207
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	656000	3840	1	19.07	19.50	1.104	-	-	-0.04	0.327	0.361
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	656000	3840	1	19.05	19.50	1.109	-	-	-0.08	0.288	0.319
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	656000	3840	1	19.07	19.50	1.104	-	-	-0.13	0.145	0.160
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	656000	3840	1	19.05	19.50	1.109	-	-	-0.13	0.120	0.133
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	633332	3499.98	1	19.09	19.50	1.099	-	-	-0.03	0.253	0.278
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	Receiver on	633332	3499.98	1	19.05	19.50	1.109	-	-	-0.05	0.257	0.285
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	633332	3499.98	1	19.09	19.50	1.099	-	-	0.08	0.185	0.203
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	Receiver on	633332	3499.98	1	19.05	19.50	1.109	-	-	-0.07	0.204	0.226
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	633332	3499.98	1	19.09	19.50	1.099	-	-	0.05	0.103	0.113
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	Receiver on	633332	3499.98	1	19.05	19.50	1.109	-	-	-0.11	0.111	0.123
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	633332	3499.98	1	19.09	19.50	1.099	-	-	-0.12	0.096	0.106
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	Receiver on	633332	3499.98	1	19.05	19.50	1.109	-	-	0.03	0.103	0.114
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	656000	3840	1	23.81	25.00	1.315	-	-	0.05	0.035	0.046
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	656000	3840	1	23.73	25.00	1.340	-	-	0.06	0.039	0.052
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	656000	3840	1	23.81	25.00	1.315	-	-	-0.09	0.037	0.049
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	656000	3840	1	23.73	25.00	1.340	-	-	-0.08	0.055	0.074
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	656000	3840	1	23.81	25.00	1.315	-	-	0.13	0.000	0.000
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	656000	3840	1	23.73	25.00	1.340	-	-	0.12	0.035	0.047
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	656000	3840	1	23.81	25.00	1.315	-	-	0.03	0.000	0.000
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	656000	3840	1	23.73	25.00	1.340	-	-	0.18	0.000	0.000
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	633332	3499.98	1	24.25	25.00	1.189	-	-	-0.1	0.047	0.056
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	Receiver on	633332	3499.98	1	24.17	25.00	1.211	-	-	0.07	0.056	0.068

	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	633332	3499.98	1	24.25	25.00	1.189	-	-	0.18	0.054	0.064
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	Receiver on	633332	3499.98	1	24.17	25.00	1.211	-	-	-0.1	0.079	0.096
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	633332	3499.98	1	24.25	25.00	1.189	-	-	0.01	0.076	0.090
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	Receiver on	633332	3499.98	1	24.17	25.00	1.211	-	-	-0.15	0.083	0.100
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	633332	3499.98	1	24.25	25.00	1.189	-	-	0.19	0.048	0.057
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	Receiver on	633332	3499.98	1	24.17	25.00	1.211	-	-	0.07	0.077	0.093
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	Receiver on	656000	3840	1	17.12	17.50	1.091	-	-	0.07	0.153	0.167
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	Receiver on	656000	3840	1	17.09	17.50	1.099	-	-	-0.02	0.139	0.153
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	Receiver on	656000	3840	1	17.12	17.50	1.091	-	-	-0.05	0.092	0.100
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	Receiver on	656000	3840	1	17.09	17.50	1.099	-	-	-0.13	0.092	0.101
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	Receiver on	656000	3840	1	17.12	17.50	1.091	-	-	0.08	0.388	0.423
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	Receiver on	656000	3840	1	17.09	17.50	1.099	-	-	-0.06	0.400	0.440
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	Receiver on	656000	3840	1	17.12	17.50	1.091	-	-	0.01	0.162	0.177
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	Receiver on	656000	3840	1	17.09	17.50	1.099	-	-	-0.16	0.174	0.191
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	Receiver on	633332	3499.98	1	17.14	17.50	1.086	-	-	-0.17	0.161	0.175
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	Receiver on	633332	3499.98	1	17.11	17.50	1.094	-	-	0.04	0.146	0.160
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	Receiver on	633332	3499.98	1	17.14	17.50	1.086	-	-	-0.01	0.099	0.108
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	Receiver on	633332	3499.98	1	17.11	17.50	1.094	-	-	-0.08	0.099	0.108
27	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	Receiver on	633332	3499.98	1	17.14	17.50	1.086	-	-	0.03	0.453	**0.492**
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	Receiver on	633332	3499.98	1	17.11	17.50	1.094	-	-	0.06	0.441	0.482
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	Receiver on	633332	3499.98	1	17.14	17.50	1.086	-	-	-0.09	0.242	0.263
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	Receiver on	633332	3499.98	1	17.11	17.50	1.094	-	-	-0.08	0.221	0.242
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Receiver on	656000	3840	1	16.12	16.50	1.091	-	-	0.17	0.097	0.106
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Receiver on	656000	3840	1	16.10	16.50	1.096	-	-	-0.05	0.105	0.115
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Receiver on	656000	3840	1	16.12	16.50	1.091	-	-	0.01	0.096	0.105
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Receiver on	656000	3840	1	16.10	16.50	1.096	-	-	0.1	0.106	0.116
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	656000	3840	1	16.12	16.50	1.091	-	-	-0.17	0.207	0.226
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	656000	3840	1	16.10	16.50	1.096	-	-	-0.01	0.217	0.238
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Receiver on	656000	3840	1	16.12	16.50	1.091	-	-	-0.01	0.174	0.190
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Receiver on	656000	3840	1	16.10	16.50	1.096	-	-	-0.08	0.183	0.201
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Receiver on	633332	3499.98	1	16.21	16.50	1.069	-	-	-0.09	0.226	0.242
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	Receiver on	633332	3499.98	1	16.18	16.50	1.076	-	-	-0.08	0.248	0.267
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Receiver on	633332	3499.98	1	16.21	16.50	1.069	-	-	0.13	0.276	0.295
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	Receiver on	633332	3499.98	1	16.18	16.50	1.076	-	-	0.12	0.268	0.288
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	633332	3499.98	1	16.21	16.50	1.069	-	-	0.03	0.398	0.425
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	633332	3499.98	1	16.18	16.50	1.076	-	-	0.02	0.408	0.439
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	633332	3499.98	2	16.18	16.50	1.076	-	-	0.01	0.333	0.358
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	633332	3499.98	3	16.18	16.50	1.076	-	-	-0.01	0.400	0.431
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	633332	3499.98	4	16.18	16.50	1.076	-	-	0.1	0.384	0.413
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	Receiver on	633332	3499.98	5	16.18	16.50	1.076	-	-	0.12	0.358	0.385
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Receiver on	633332	3499.98	1	16.21	16.50	1.069	-	-	0.16	0.405	0.433
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	Receiver on	633332	3499.98	1	16.18	16.50	1.076	-	-	-0.1	0.398	0.428

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																	
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6+7(6)	Standalone	1	2412	1	18.68	20.50	1.521	99.1	1.009	0.05	0.555	0.851
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 6+7(6)	Standalone	6	2437	1	18.79	20.50	1.483	99.1	1.009	0.08	0.515	0.770
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 6+7(6)	Standalone	1	2412	1	18.68	20.50	1.521	99.1	1.009	0.06	0.225	0.345
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	1	2412	1	18.68	20.50	1.521	99.1	1.009	-0.09	0.737	1.131
28	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	6	2437	1	18.79	20.50	1.483	99.1	1.009	-0.05	0.789	**1.180**
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	6	2437	2	18.79	20.50	1.483	99.1	1.009	0.01	0.755	1.129
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	6	2437	3	18.79	20.50	1.483	99.1	1.009	-0.15	0.762	1.140
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	6	2437	4	18.79	20.50	1.483	99.1	1.009	0.12	0.741	1.108
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	6	2437	5	18.79	20.50	1.483	99.1	1.009	0.08	0.732	1.095
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Non DBS	6	2437	1	13.59	15.00	1.384	99.1	1.009	-0.08	0.252	0.352
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	DBS	6	2437	1	10.46	12.00	1.426	99.1	1.009	0.13	0.119	0.171
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 6+7(6)	Standalone	11	2462	1	18.68	20.50	1.521	99.1	1.009	0.12	0.756	1.160
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 6+7(6)	Standalone	1	2412	1	18.68	20.50	1.521	99.1	1.009	0.03	0.484	0.743
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	0.18	0.001	0.001
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	0.16	0.001	0.001
29	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.05	0.041	**0.047**
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	0	2402	1	8.33	9.00	1.166	76.86	1.084	0.06	0.022	0.028
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	78	2480	1	7.62	9.00	1.373	76.86	1.084	0	0.031	0.046
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.1	0.001	0.001
5000MHz																	
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(6)	Standalone	50	5250	1	13.39	15.00	1.449	100	1.000	0.07	0.308	0.446
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(6)	Standalone	50	5250	1	13.39	15.00	1.449	100	1.000	0.18	0.261	0.378
30	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Standalone	50	5250	1	13.39	15.00	1.449	100	1.000	0.03	0.800	**1.159**
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	Non DBS	50	5250	1	7.93	9.50	1.435	100	1.000	-0.1	0.251	0.360
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	DBS	50	5250	1	4.64	6.50	1.535	100	1.000	0.01	0.121	0.186
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(6)	Standalone	50	5250	1	13.39	15.00	1.449	100	1.000	-0.15	0.510	0.739
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 6+7(6)	Standalone	114	5570	1	14.32	16.00	1.472	100	1.000	0.19	0.345	0.508
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 6+7(6)	Standalone	114	5570	1	14.32	16.00	1.472	100	1.000	0.07	0.322	0.474
31	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Standalone	114	5570	1	14.32	16.00	1.472	100	1.000	0.04	0.732	**1.078**
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Standalone	114	5570	2	14.32	16.00	1.472	100	1.000	0.13	0.633	0.932
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Standalone	114	5570	3	14.32	16.00	1.472	100	1.000	0.16	0.610	0.898
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Standalone	114	5570	4	14.32	16.00	1.472	100	1.000	0.08	0.609	0.897
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Standalone	114	5570	5	14.32	16.00	1.472	100	1.000	-0.17	0.559	0.823
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(6)	Non DBS	114	5570	1	8.71	10.00	1.346	100	1.000	-0.18	0.284	0.382
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 6+7(7)	DBS	114	5570	1	6.04	7.50	1.400	100	1.000	0.03	0.141	0.197
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 6+7(6)	Standalone	114	5570	1	14.32	16.00	1.472	100	1.000	-0.15	0.377	0.555
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6+7(7)	Standalone	155	5775	1	14.73	16.50	1.503	100	1.000	-0.15	0.303	0.455
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6+7(7)	Standalone	155	5775	1	14.73	16.50	1.503	100	1.000	0.11	0.275	0.413
32	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Standalone	155	5775	1	14.73	16.50	1.503	100	1.000	0.08	0.793	**1.192**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Standalone	155	5775	2	14.73	16.50	1.503	100	1.000	0.01	0.721	1.084
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Standalone	155	5775	3	14.73	16.50	1.503	100	1.000	0.16	0.709	1.066
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Standalone	155	5775	4	14.73	16.50	1.503	100	1.000	-0.17	0.711	1.069
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Standalone	155	5775	5	14.73	16.50	1.503	100	1.000	-0.03	0.643	0.967
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	Non DBS	155	5775	1	8.68	10.00	1.355	100	1.000	-0.08	0.266	0.360
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6+7(7)	DBS	155	5775	1	5.68	7.00	1.355	100	1.000	-0.17	0.143	0.194
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6+7(7)	Standalone	155	5775	1	14.73	16.50	1.503	100	1.000	-0.08	0.411	0.618

15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	-0.09	0.177	0.225
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	0.11	0.152	0.190
33	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	0.01	0.222	**0.282**
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	-0.05	0.181	0.226
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	-0.08	0.221	0.281
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	0.16	0.187	0.234
	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	0.05	0.130	0.165
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	0.05	0.107	0.134
	LTE Band 71	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	-0.03	0.118	0.150
	LTE Band 71	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	-0.15	0.110	0.138
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	0.01	0.159	0.199
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	0.03	0.131	0.163
34	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	-0.05	0.181	**0.226**
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	-0.08	0.154	0.192
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	-0.08	0.173	0.216
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	0.1	0.142	0.177
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	-0.18	0.112	0.140
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	0.1	0.091	0.114
	LTE Band 12	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	0.12	0.126	0.158
	LTE Band 12	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	0.08	0.113	0.141
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	23230	782	1	24.16	25.00	1.213	-	-	-0.17	0.185	0.224
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	Full Power	23230	782	1	23.23	24.00	1.194	-	-	-0.03	0.145	0.173
35	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	23230	782	1	24.16	25.00	1.213	-	-	-0.05	0.228	**0.277**
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	Full Power	23230	782	1	23.23	24.00	1.194	-	-	0.14	0.200	0.239
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	23230	782	1	24.16	25.00	1.213	-	-	0.11	0.128	0.155
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	Full Power	23230	782	1	23.23	24.00	1.194	-	-	-0.05	0.098	0.117
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	23230	782	1	24.16	25.00	1.213	-	-	0.18	0.098	0.119
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	Full Power	23230	782	1	23.23	24.00	1.194	-	-	0.14	0.074	0.088
	LTE Band 13	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	23230	782	1	24.16	25.00	1.213	-	-	-0.17	0.180	0.218
	LTE Band 13	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	Full Power	23230	782	1	23.23	24.00	1.194	-	-	0.17	0.144	0.172
	LTE Band 14	10M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	23330	793	1	24.12	25.00	1.225	-	-	-0.05	0.157	0.192
	LTE Band 14	10M	QPSK	25	0	-	Front	10mm	Ant 1	Full Power	23330	793	1	23.22	24.00	1.197	-	-	0.01	0.119	0.142
36	LTE Band 14	10M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	23330	793	1	24.12	25.00	1.225	-	-	0.05	0.193	**0.236**
	LTE Band 14	10M	QPSK	25	0	-	Back	10mm	Ant 1	Full Power	23330	793	1	23.22	24.00	1.197	-	-	0.1	0.167	0.200
	LTE Band 14	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	23330	793	1	24.12	25.00	1.225	-	-	-0.17	0.091	0.111
	LTE Band 14	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	Full Power	23330	793	1	23.22	24.00	1.197	-	-	0.04	0.069	0.083
	LTE Band 14	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	23330	793	1	24.12	25.00	1.225	-	-	-0.01	0.077	0.094
	LTE Band 14	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	Full Power	23330	793	1	23.22	24.00	1.197	-	-	-0.08	0.058	0.069
	LTE Band 14	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	23330	793	1	24.12	25.00	1.225	-	-	0.05	0.152	0.186
	LTE Band 14	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	Full Power	23330	793	1	23.22	24.00	1.197	-	-	0.06	0.120	0.144
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	-0.05	0.124	0.148
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	0.18	0.145	0.178
37	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	-0.16	0.181	**0.217**
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	0.14	0.169	0.207
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	-0.17	0.174	0.208
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	0.17	0.167	0.205
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	-0.05	0.094	0.112
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	0.01	0.100	0.122
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	0.1	0.087	0.104
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	-0.17	0.099	0.121

	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	-0.18	0.108	0.124
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	-0.03	0.116	0.140
38	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	-0.14	0.151	**0.174**
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	-0.04	0.136	0.164
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	-0.09	0.077	0.089
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	0.18	0.086	0.104
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	0.11	0.000	0.000
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	0.07	0.049	0.059
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	-0.03	0.108	0.124
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	0.09	0.101	0.122
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	156400	782	1	23.12	24.00	1.225	-	-	0.04	0.147	0.180
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	156400	782	1	23.05	24.00	1.245	-	-	-0.01	0.135	0.168
39	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	156400	782	1	23.12	24.00	1.225	-	-	0.09	0.184	**0.225**
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	156400	782	1	23.05	24.00	1.245	-	-	-0.08	0.159	0.198
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	156400	782	1	23.12	24.00	1.225	-	-	0.05	0.075	0.092
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	156400	782	1	23.05	24.00	1.245	-	-	0.06	0.081	0.101
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	156400	782	1	23.12	24.00	1.225	-	-	-0.09	0.000	0.000
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	156400	782	1	23.05	24.00	1.245	-	-	-0.08	0.000	0.000
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	156400	782	1	23.12	24.00	1.225	-	-	0.13	0.159	0.195
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	156400	782	1	23.05	24.00	1.245	-	-	0.12	0.142	0.177
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	158600	793	1	23.31	24.00	1.172	-	-	0.03	0.131	0.154
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	158600	793	1	23.27	24.00	1.183	-	-	0.18	0.114	0.135
40	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	158600	793	1	23.31	24.00	1.172	-	-	-0.13	0.168	**0.197**
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	158600	793	1	23.27	24.00	1.183	-	-	0.16	0.143	0.169
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	158600	793	1	23.31	24.00	1.172	-	-	-0.1	0.087	0.102
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	158600	793	1	23.27	24.00	1.183	-	-	0.07	0.071	0.084
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	158600	793	1	23.31	24.00	1.172	-	-	0.18	0.000	0.000
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	158600	793	1	23.27	24.00	1.183	-	-	-0.1	0.000	0.000
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	158600	793	1	23.31	24.00	1.172	-	-	0.01	0.142	0.166
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	158600	793	1	23.27	24.00	1.183	-	-	-0.15	0.121	0.143
835MHz																				
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	0.18	0.220	0.280
41	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	-0.06	0.316	**0.402**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	-0.11	0.082	0.104
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	-0.05	0.077	0.098
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	-0.04	0.226	0.287
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	-0.09	0.217	0.263
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	-0.08	0.184	0.222
42	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	-0.01	0.329	**0.398**
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	0.13	0.264	0.318
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	0.12	0.085	0.103
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	0.03	0.070	0.084
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	0.18	0.073	0.088
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 1	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	0.16	0.062	0.075
	LTE Band 26	15M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	-0.1	0.225	0.272
	LTE Band 26	15M	QPSK	36	0	-	Top Side	10mm	Ant 1	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	0.07	0.185	0.223
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	-0.08	0.211	0.246
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.05	0.209	0.245
43	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	0.19	0.309	**0.360**
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.03	0.279	0.327
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	0.17	0.134	0.156
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.14	0.124	0.145
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	0.06	0.056	0.065
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.06	0.070	0.082
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	-0.15	0.229	0.267
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.12	0.224	0.263

1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	Hotspot on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.08	0.399	0.516
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Hotspot on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.01	0.840	1.087
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Hotspot on	1312	1712.4	1	21.72	23.00	1.343	-	-	0.03	0.814	1.093
44	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Hotspot on	1513	1752.6	1	21.85	23.00	1.303	-	-	-0.08	0.860	**1.121**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	Hotspot on	1413	1732.6	1	21.88	23.00	1.294	-	-	-0.18	0.108	0.140
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	Hotspot on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.1	0.095	0.123
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Hotspot on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.12	0.731	0.946
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Hotspot on	1312	1712.4	1	21.72	23.00	1.343	-	-	0.08	0.697	0.936
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Hotspot on	1513	1752.6	1	21.85	23.00	1.303	-	-	0.01	0.722	0.941
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	0.19	0.148	0.178
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	0.07	0.151	0.182
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	-0.18	0.092	0.111
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	0.03	0.000	0.000
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	-0.15	0.212	0.255
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	1312	1712.4	1	23.14	24.00	1.219	-	-	-0.08	0.206	0.251
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	1513	1752.6	1	23.06	24.00	1.242	-	-	0.1	0.193	0.240
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 0	Hotspot on	132322	1745	1	22.51	23.00	1.119	-	-	-0.15	0.498	0.557
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 0	Hotspot on	132322	1745	1	22.49	23.00	1.125	-	-	0.16	0.407	0.458
45	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	1	22.51	23.00	1.119	-	-	-0.02	1.040	**1.164**
	LTE Band 66C	20M	QPSK	1	99	-	Back	10mm	Ant 0	Hotspot on	132322+ 132520	1745+ 1764.8	1	22.41	23.00	1.146	-	-	0.06	0.994	1.139
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	2	22.51	23.00	1.119	-	-	0.08	0.913	1.022
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	3	22.51	23.00	1.119	-	-	0.01	0.942	1.055
	LTE Band 66	20M	QPSK	1	0		Back	10mm	Ant 0	Hotspot on	132322	1745	4	22.51	23.00	1.119	-	-	0.08	0.923	1.033
	LTE Band 66	20M	QPSK	1	0		Back	10mm	Ant 0	Hotspot on	132322	1745	5	22.51	23.00	1.119	-	-	0.01	0.871	0.975
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132072	1720	1	22.44	23.00	1.138	-	-	0.05	0.978	1.113
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132572	1770	1	22.49	23.00	1.125	-	-	-0.06	1.000	1.125
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	1	22.49	23.00	1.125	-	-	-0.13	1.020	1.147
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	Hotspot on	132072	1720	1	22.35	23.00	1.161	-	-	-0.01	0.811	0.942
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	Hotspot on	132572	1770	1	22.38	23.00	1.153	-	-	-0.11	0.851	0.982
	LTE Band 66	20M	QPSK	100	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	1	22.46	23.00	1.132	-	-	0.19	0.908	1.028
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.51	23.00	1.119	-	-	-0.14	0.116	0.130
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.49	23.00	1.125	-	-	-0.18	0.095	0.107
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.51	23.00	1.119	-	-	-0.06	0.106	0.119
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.49	23.00	1.125	-	-	0.02	0.095	0.107
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.51	23.00	1.119	-	-	0.16	0.925	1.035
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132072	1720	1	22.44	23.00	1.138	-	-	0.01	0.899	1.023
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132572	1770	1	22.49	23.00	1.125	-	-	-0.04	0.934	1.050
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.49	23.00	1.125	-	-	0.13	0.769	0.865
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132072	1720	1	22.35	23.00	1.161	-	-	0.12	0.735	0.854
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132572	1770	1	22.38	23.00	1.153	-	-	0.07	0.763	0.880
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 0	Hotspot on	132322	1745	1	22.46	23.00	1.132	-	-	0.08	0.798	0.904
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	-0.15	0.127	0.159
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 1	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	0.11	0.115	0.143
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	-0.08	0.146	0.183
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	-0.17	0.122	0.152
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	-0.08	0.066	0.083
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	-0.04	0.058	0.072
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	-0.08	0.000	0.000
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	0.17	0.000	0.000
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	0.18	0.187	0.234
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	-0.04	0.159	0.198
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	132072	1720	1	22.97	24.00	1.268	-	-	-0.08	0.168	0.213
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	132572	1770	1	22.92	24.00	1.282	-	-	0.1	0.177	0.227
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	Hotspot on	132322	1745	1	19.32	20.00	1.169	-	-	0.08	0.301	0.352
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	Hotspot on	132322	1745	1	19.30	20.00	1.175	-	-	-0.08	0.286	0.336

	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	Hotspot on	132322	1745	1	19.32	20.00	1.169	-	-	0.1	0.362	0.423
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	Hotspot on	132322	1745	1	19.30	20.00	1.175	-	-	-0.17	0.327	0.384
	LTE Band 66	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	Hotspot on	132322	1745	1	19.32	20.00	1.169	-	-	-0.05	0.060	0.070
	LTE Band 66	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	Hotspot on	132322	1745	1	19.30	20.00	1.175	-	-	0.18	0.056	0.066
	LTE Band 66	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	Hotspot on	132322	1745	1	19.32	20.00	1.169	-	-	0.14	0.059	0.069
	LTE Band 66	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	Hotspot on	132322	1745	1	19.30	20.00	1.175	-	-	-0.17	0.064	0.075
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	Hotspot on	132322	1745	1	19.32	20.00	1.169	-	-	0.01	0.427	0.499
	LTE Band 66	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	Hotspot on	132322	1745	1	19.30	20.00	1.175	-	-	0.01	0.416	0.489
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	Hotspot on	132072	1720	1	19.29	20.00	1.178	-	-	0.17	0.418	0.492
	LTE Band 66	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	Hotspot on	132572	1770	1	19.24	20.00	1.191	-	-	-0.05	0.369	0.440
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.16	0.404	0.491
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.03	0.390	0.474
46	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	0.03	0.897	**1.091**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	0.17	0.891	1.084
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	349000	1745	1	22.73	24.00	1.340	-	-	0.02	0.801	1.073
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	0	0.097	0.118
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	0.18	0.110	0.134
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.11	0.000	0.000
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.05	0.050	0.061
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.04	0.821	0.998
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.08	0.781	0.950
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	349000	1745	1	22.73	24.00	1.340	-	-	0	0.809	1.084
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	-0.03	0.112	0.160
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	0.08	0.106	0.154
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	-0.07	0.121	0.173
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	0.05	0.099	0.144
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	-0.11	0.070	0.100
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	-0.12	0.059	0.086
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	0.03	0.000	0.000
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	-0.16	0.000	0.000
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	-0.02	0.172	0.246
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	0.15	0.133	0.193
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	Hotspot on	349000	1745	1	19.27	20.00	1.183	-	-	0.08	0.278	0.329
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	Hotspot on	349000	1745	1	19.13	20.00	1.222	-	-	0.01	0.264	0.323
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	Hotspot on	349000	1745	1	19.27	20.00	1.183	-	-	-0.08	0.333	0.394
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	Hotspot on	349000	1745	1	19.13	20.00	1.222	-	-	-0.08	0.310	0.379
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 5	Hotspot on	349000	1745	1	19.27	20.00	1.183	-	-	-0.18	0.056	0.066
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 5	Hotspot on	349000	1745	1	19.13	20.00	1.222	-	-	0.1	0.050	0.061
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	Hotspot on	349000	1745	1	19.27	20.00	1.183	-	-	0.12	0.042	0.050
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 5	Hotspot on	349000	1745	1	19.13	20.00	1.222	-	-	0.08	0.039	0.048
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	349000	1745	1	19.27	20.00	1.183	-	-	0.06	0.407	0.481
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	349000	1745	1	19.13	20.00	1.222	-	-	-0.17	0.390	0.477
1900MHz																					
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	0.03	0.443	0.593
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	-0.17	0.713	0.955
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Full Power	9262	1852.4	1	23.71	25.00	1.346	-	-	-0.16	0.788	1.061
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Full Power	9538	1907.6	1	23.55	25.00	1.396	-	-	0.02	0.629	0.878
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	0.18	0.113	0.151
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	0.14	0.080	0.107
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	-0.17	0.756	1.013
47	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	1	23.71	25.00	1.346	-	-	0.07	0.805	**1.083**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	2	23.71	25.00	1.346	-	-	-0.18	0.742	0.999
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	3	23.71	25.00	1.346	-	-	0.1	0.791	1.065
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	4	23.71	25.00	1.346	-	-	0.01	0.781	1.051
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	5	23.71	25.00	1.346	-	-	-0.15	0.753	1.013
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9538	1907.6	1	23.55	25.00	1.396	-	-	0.17	0.650	0.908

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	-0.08	0.203	0.241
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	-0.13	0.143	0.170
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	-0.13	0.115	0.137
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 1	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	0.06	0.000	0.000
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	-0.03	0.288	0.342
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	9262	1852.4	1	23.21	24.00	1.199	-	-	-0.18	0.259	0.311
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	Full Power	9538	1907.6	1	23.16	24.00	1.213	-	-	0.1	0.266	0.323
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 0	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	-0.11	0.380	0.460
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 0	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	0.18	0.325	0.397
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	0.16	0.669	0.810
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	26140	1860	1	23.10	24.00	1.230	-	-	0.05	0.727	0.894
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	26590	1905	1	22.98	24.00	1.265	-	-	0.19	0.577	0.730
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 0	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	0.13	0.663	0.810
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 0	Full Power	26140	1860	1	21.91	23.00	1.285	-	-	-0.03	0.637	0.819
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 0	Full Power	26590	1905	1	21.87	23.00	1.297	-	-	0.12	0.627	0.813
	LTE Band 25	20M	QPSK	100	0	-	Back	10mm	Ant 0	Full Power	26340	1880	1	21.97	23.00	1.268	-	-	0.19	0.558	0.707
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	-0.05	0.117	0.142
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	0.01	0.084	0.103
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	0.1	0.090	0.109
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	-0.17	0.067	0.082
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	0.04	0.704	0.852
48	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	26140	1860	1	23.10	24.00	1.230	-	-	0.06	0.758	**0.933**
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	26590	1905	1	22.98	24.00	1.265	-	-	-0.01	0.607	0.768
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	-0.08	0.548	0.670
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 0	Full Power	26340	1880	1	21.97	23.00	1.268	-	-	0.05	0.578	0.733
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	-0.09	0.176	0.225
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 1	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	0.11	0.138	0.173
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	-0.05	0.140	0.179
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 1	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	-0.08	0.111	0.139
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	0.16	0.099	0.127
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	0.05	0.084	0.105
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	0.05	0.000	0.000
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	-0.03	0.000	0.000
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	-0.15	0.284	0.363
	LTE Band 25	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	0.02	0.221	0.276
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	26140	1860	1	22.83	24.00	1.309	-	-	0.12	0.257	0.336
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	26590	1905	1	22.89	24.00	1.291	-	-	0.08	0.262	0.338
	LTE Band 2	20M	QPSK	1	0		Front	10mm	Ant 5	Hotspot on	18900	1880	1	19.20	20.00	1.202	-	-	0.12	0.238	0.286
	LTE Band 2	20M	QPSK	50	0		Front	10mm	Ant 5	Hotspot on	18900	1880	1	19.18	20.00	1.208	-	-	0.08	0.229	0.277
	LTE Band 2	20M	QPSK	1	0		Back	10mm	Ant 5	Hotspot on	18900	1880	1	19.20	20.00	1.202	-	-	-0.17	0.313	0.376
	LTE Band 2	20M	QPSK	50	0		Back	10mm	Ant 5	Hotspot on	18900	1880	1	19.18	20.00	1.208	-	-	-0.03	0.310	0.374
	LTE Band 2	20M	QPSK	1	0		Left Side	10mm	Ant 5	Hotspot on	18900	1880	1	19.20	20.00	1.202	-	-	0.14	0.052	0.063
	LTE Band 2	20M	QPSK	50	0		Left Side	10mm	Ant 5	Hotspot on	18900	1880	1	19.18	20.00	1.208	-	-	0.11	0.053	0.064
	LTE Band 2	20M	QPSK	1	0		Right Side	10mm	Ant 5	Hotspot on	18900	1880	1	19.20	20.00	1.202	-	-	-0.05	0.070	0.084
	LTE Band 2	20M	QPSK	50	0		Right Side	10mm	Ant 5	Hotspot on	18900	1880	1	19.18	20.00	1.208	-	-	0.18	0.068	0.082
	LTE Band 2	20M	QPSK	1	0		Top Side	10mm	Ant 5	Hotspot on	18900	1880	1	19.20	20.00	1.202	-	-	0.14	0.404	0.486
	LTE Band 2	20M	QPSK	50	0		Top Side	10mm	Ant 5	Hotspot on	18900	1880	1	19.18	20.00	1.208	-	-	-0.17	0.355	0.429
	LTE Band 2	20M	QPSK	1	0		Top Side	10mm	Ant 5	Hotspot on	18700	1860	1	19.19	20.00	1.205	-	-	0.17	0.383	0.462
	LTE Band 2	20M	QPSK	1	0		Top Side	10mm	Ant 5	Hotspot on	19100	1900	1	19.09	20.00	1.233	-	-	-0.05	0.387	0.477
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	-0.13	0.310	0.388
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 0	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	-0.01	0.294	0.374
49	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	0.05	0.602	**0.754**
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	-0.09	0.536	0.681
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	0.05	0.117	0.147
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	0.02	0.129	0.164
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	-0.13	0.051	0.064

	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	0.17	0.566	0.719
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	0.05	0.585	0.733
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	0.06	0.546	0.694
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	0.07	0.143	0.202
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	0.16	0.145	0.215
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	0.13	0.106	0.150
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	-0.18	0.111	0.165
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	0.02	0.078	0.110
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	0.16	0.081	0.120
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	-0.03	0.000	0.000
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	0.07	0.000	0.000
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	0	0.201	0.285
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	0.01	0.220	0.326
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.96	21.50	1.132	-	-	-0.15	0.232	0.263
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.84	21.50	1.164	-	-	-0.15	0.198	0.230
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.96	21.50	1.132	-	-	-0.03	0.415	0.470
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.84	21.50	1.164	-	-	-0.08	0.360	0.419
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.96	21.50	1.132	-	-	-0.08	0.036	0.041
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.84	21.50	1.164	-	-	-0.04	0.040	0.047
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.96	21.50	1.132	-	-	-0.08	0.050	0.057
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.84	21.50	1.164	-	-	0.17	0.053	0.062
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.96	21.50	1.132	-	-	0.03	0.446	0.505
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	376500	1882.5	2	20.96	21.50	1.132	-	-	0.03	0.420	0.476
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	376500	1882.5	3	20.96	21.50	1.132	-	-	-0.09	0.433	0.490
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	376500	1882.5	4	20.96	21.50	1.132	-	-	0.03	0.422	0.478
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	376500	1882.5	5	20.96	21.50	1.132	-	-	0.19	0.411	0.465
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 5	Hotspot on	376500	1882.5	1	20.84	21.50	1.164	-	-	-0.04	0.331	0.385
2300MHz																				
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 0	Hotspot on	27710	2310	1	21.19	21.50	1.074	-	-	0.19	0.208	0.223
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 0	Hotspot on	27710	2310	1	21.16	21.50	1.081	-	-	-0.06	0.171	0.185
50	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	27710	2310	1	21.19	21.50	1.074	-	-	0.07	1.060	**1.138**
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 0	Hotspot on	27710	2310	1	21.16	21.50	1.081	-	-	-0.03	0.961	1.039
	LTE Band 30	10M	QPSK	50	0	-	Back	10mm	Ant 0	Hotspot on	27710	2310	1	21.11	21.50	1.094	-	-	0.07	0.985	1.078
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	Hotspot on	27710	2310	1	21.19	21.50	1.074	-	-	-0.12	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	Hotspot on	27710	2310	1	21.16	21.50	1.081	-	-	-0.03	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	Hotspot on	27710	2310	1	21.19	21.50	1.074	-	-	0.02	0.104	0.112
	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	Hotspot on	27710	2310	1	21.16	21.50	1.081	-	-	0.12	0.086	0.093
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Hotspot on	27710	2310	1	21.19	21.50	1.074	-	-	0.02	0.685	0.736
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	Hotspot on	27710	2310	1	21.16	21.50	1.081	-	-	-0.03	0.554	0.599
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	-0.01	0.252	0.321
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 1	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.06	0.208	0.271
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	-0.04	0.196	0.250
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 1	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.09	0.148	0.193
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	-0.17	0.185	0.236
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.1	0.137	0.179
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	0.18	0.000	0.000
	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 1	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.17	0.000	0.000
	LTE Band 30	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	-0.04	0.115	0.146
	LTE Band 30	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.05	0.088	0.115
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 2	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	0	0.106	0.152
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 2	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	-0.13	0.084	0.116
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 2	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	-0.01	0.127	0.182
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 2	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	-0.09	0.096	0.133
	LTE Band 30	10M	QPSK	1	0	-	Left Side	10mm	Ant 2	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	0.05	0.161	0.231
	LTE Band 30	10M	QPSK	25	0	-	Left Side	10mm	Ant 2	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	0.02	0.122	0.169
	LTE Band 30	10M	QPSK	1	0	-	Right Side	10mm	Ant 2	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	-0.13	0.013	0.019

	LTE Band 30	10M	QPSK	25	0	-	Right Side	10mm	Ant 2	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	0.17	0.006	0.008
	LTE Band 30	10M	QPSK	1	0	-	Top Side	10mm	Ant 2	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	0.06	0.011	0.016
	LTE Band 30	10M	QPSK	25	0	-	Top Side	10mm	Ant 2	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	0	0.004	0.006
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	Hotspot on	462000	2310	1	21.88	23.00	1.294	-	-	-0.15	0.215	0.278
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 0	Hotspot on	462000	2310	1	21.85	23.00	1.303	-	-	-0.06	0.214	0.279
51	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	1	21.88	23.00	1.294	-	-	-0.05	0.984	**1.273**
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	2	21.88	23.00	1.294	-	-	-0.03	0.891	1.153
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	3	21.88	23.00	1.294	-	-	-0.17	0.931	1.205
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	4	21.88	23.00	1.294	-	-	-0.08	0.970	1.255
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	5	21.88	23.00	1.294	-	-	0.07	0.961	1.244
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	1	21.85	23.00	1.303	-	-	-0.14	0.890	1.160
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	10mm	Ant 0	Hotspot on	462000	2310	1	21.78	23.00	1.324	-	-	-0.19	0.906	1.200
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.88	23.00	1.294	-	-	0.01	0.033	0.043
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.85	23.00	1.303	-	-	0.06	0.034	0.044
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.88	23.00	1.294	-	-	0.02	0.063	0.082
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.85	23.00	1.303	-	-	0.12	0.059	0.077
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.88	23.00	1.294	-	-	-0.16	0.662	0.857
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.85	23.00	1.303	-	-	-0.12	0.640	0.834
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Hotspot on	462000	2310	1	21.78	23.00	1.324	-	-	0.03	0.613	0.812
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	-0.04	0.173	0.206
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	-0.15	0.178	0.219
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	0.11	0.214	0.254
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	-0.02	0.201	0.247
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	0.1	0.183	0.217
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	0.04	0.149	0.183
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	0.13	0.000	0.000
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	-0.18	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	-0.11	0.117	0.139
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	-0.16	0.098	0.121
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	-0.06	0.109	0.135
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 2	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	-0.14	0.105	0.135
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	-0.19	0.135	0.167
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 2	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	0.01	0.116	0.149
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	0.06	0.147	0.182
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	10mm	Ant 2	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	0.02	0.134	0.173
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 2	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	0.12	0.014	0.017
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	10mm	Ant 2	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	-0.16	0.000	0.000
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 2	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	-0.12	0.035	0.043
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	10mm	Ant 2	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	0.07	0.000	0.000
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 0	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	-0.08	0.387	0.439
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 0	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	0.1	0.314	0.349
52	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	-0.09	0.693	**0.787**
	LTE Band 7C	20M	QPSK	1	99	-	Back	10mm	Ant 0	Full Power	21100+ 21298	2535+ 2554.8	1	22.25	23.00	1.189	-	-	0.08	0.654	0.777
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	0.12	0.690	0.767
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	0.14	0.134	0.152
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	0.11	0.099	0.110
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	-0.05	0.128	0.145
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	0.18	0.116	0.129
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	0.14	0.624	0.708
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	-0.17	0.543	0.604
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	20850	2510	1	22.27	23.00	1.183	-	-	-0.18	0.656	0.776
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	21350	2560	1	22.42	23.00	1.143	-	-	0.1	0.682	0.779
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	-0.01	0.400	0.548
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 1	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	0.08	0.315	0.440
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	0.01	0.311	0.426

	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	0.03	0.249	0.348
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	-0.08	0.316	0.433
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	-0.08	0.248	0.346
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	0.1	0.000	0.000
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	-0.18	0.031	0.043
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	0.1	0.154	0.211
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	0.12	0.114	0.159
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	20850	2510	1	21.56	23.00	1.393	-	-	-0.17	0.388	0.541
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	21350	2560	1	21.58	23.00	1.387	-	-	-0.03	0.391	0.542
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	-0.06	0.127	0.157
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.13	0.104	0.129
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	-0.08	0.265	0.328
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.01	0.204	0.254
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	-0.05	0.353	0.437
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.11	0.306	0.381
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	0.19	0.000	0.000
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.14	0.000	0.000
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	-0.18	0.064	0.079
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.06	0.059	0.073
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Full Power	20850	2510	1	22.93	24.00	1.279	-	-	0.14	0.326	0.417
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Full Power	21350	2560	1	23.05	24.00	1.245	-	-	0.11	0.334	0.416
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 0	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	-0.08	0.253	0.292
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 0	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	-0.04	0.189	0.215
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	-0.08	0.355	0.409
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	0.17	0.353	0.402
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	0.08	0.089	0.103
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	0.01	0.065	0.074
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	0.03	0.076	0.088
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	-0.08	0.062	0.071
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	-0.08	0.410	0.472
	LTE Band 41C	20M	QPSK	1	99	-	Bottom Side	10mm	Ant 0	Full Power	40620+ 40818	2593+ 2612.8	1	22.22	23.00	1.197	62.9	1.006	0.05	0.382	0.460
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	0.1	0.333	0.379
53	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	40620	2593	1	25.41	26.00	1.146	42.9	1.009	0.04	0.591	**0.683**
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	39750	2506	1	25.26	26.00	1.186	42.9	1.009	0.06	0.551	0.659
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	40185	2549.5	1	25.39	26.00	1.151	42.9	1.009	0.18	0.574	0.667
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	41055	2636.5	1	25.38	26.00	1.153	42.9	1.009	0.14	0.566	0.659
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	Full Power	41490	2680	1	25.40	26.00	1.148	42.9	1.009	-0.17	0.587	0.680
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.03	0.285	0.360
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 1	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	0.08	0.222	0.286
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	-0.17	0.232	0.293
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	-0.03	0.184	0.237
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.14	0.245	0.310
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	0.11	0.186	0.239
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 1	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	-0.05	0.025	0.032
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 1	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	0.18	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.14	0.150	0.190
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	-0.17	0.120	0.154
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Front	10mm	Ant 1	Full Power	40620	2593	1	24.94	26.00	1.276	42.9	1.009	-0.09	0.374	0.482
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 2	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	0.14	0.096	0.121
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 2	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	0.1	0.077	0.096
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.09	0.140	0.177
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	0.07	0.120	0.150
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.09	0.208	0.263
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	-0.16	0.179	0.224
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 2	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.18	0.000	0.000

	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 2	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	-0.07	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	0.11	0.078	0.099
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	-0.08	0.065	0.081
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Full Power	40620	2593	1	26.12	27.00	1.225	42.9	1.009	-0.1	**0.313**	0.387
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	0.17	0.280	0.366
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 0	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	-0.05	0.297	0.389
54	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	-0.01	0.565	**0.738**
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 0	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	0.01	0.527	0.690
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	-0.17	0.129	0.168
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 0	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	0.04	0.127	0.166
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	-0.01	0.075	0.098
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 0	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	-0.08	0.079	0.103
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	0.05	0.477	0.623
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	0.06	0.519	0.679
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	-0.02	0.460	0.579
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.02	0.417	0.556
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	0.16	0.443	0.558
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.01	0.412	0.549
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	-0.04	0.389	0.490
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	10mm	Ant 1	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.13	0.403	0.537
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	0.12	0.038	0.048
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	10mm	Ant 1	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.07	0.000	0.000
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	0.08	0.153	0.193
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	10mm	Ant 1	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.19	0.184	0.245
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.60	25.00	1.380	-	-	0.07	0.339	0.468
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.18	0.355	0.501
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.60	25.00	1.380	-	-	-0.06	0.618	0.853
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.15	0.488	0.689
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.41	25.00	1.442	-	-	0.12	0.474	0.684
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.60	25.00	1.380	-	-	-0.08	0.179	0.247
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.17	0.230	0.325
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.60	25.00	1.380	-	-	-0.08	0.021	0.029
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.04	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.60	25.00	1.380	-	-	-0.08	0.534	0.737
55	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.07	0.780	**1.102**
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	2	23.50	25.00	1.413	-	-	0.13	0.655	0.925
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	3	23.50	25.00	1.413	-	-	-0.14	0.711	1.004
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	4	23.50	25.00	1.413	-	-	0.1	0.733	1.035
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	5	23.50	25.00	1.413	-	-	0.03	0.756	1.068
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	10mm	Ant 0	Hotspot on	518598	2592.99	1	23.41	25.00	1.442	-	-	0.05	0.723	1.043
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.71	26.00	1.346	-	-	0.11	0.385	0.518
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.61	26.00	1.377	-	-	-0.05	0.534	0.735
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Front	10mm	Ant 1	Hotspot on	518598	2592.99	1	23.71	25.00	1.346	-	-	0.01	0.522	0.703
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.71	26.00	1.346	-	-	0.16	0.452	0.608
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.61	26.00	1.377	-	-	-0.07	0.575	0.792
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	2	24.61	26.00	1.377	-	-	-0.08	0.555	0.764
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	3	24.61	26.00	1.377	-	-	-0.15	0.521	0.718
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	4	24.61	26.00	1.377	-	-	-0.18	0.550	0.757
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	5	24.61	26.00	1.377	-	-	-0.15	0.522	0.719
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 1	Hotspot on	518598	2592.99	1	23.71	25.00	1.346	-	-	0.05	0.542	0.729
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.71	26.00	1.346	-	-	0.06	0.330	0.444
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.61	26.00	1.377	-	-	0.15	0.411	0.566
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.71	26.00	1.346	-	-	-0.05	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.61	26.00	1.377	-	-	-0.18	0.039	0.054
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.71	26.00	1.346	-	-	-0.08	0.140	0.188
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	Hotspot on	518598	2592.99	1	24.61	26.00	1.377	-	-	0.18	0.288	0.397

	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	0.02	0.091	0.113
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.16	0.185	0.230
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	0.05	0.211	0.261
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.03	0.265	0.330
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	-0.03	0.312	0.387
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	0.08	0.406	0.505
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Full Power	518598	2592.99	2	24.05	25.00	1.245	-	-	0.07	0.311	0.387
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Full Power	518598	2592.99	3	24.05	25.00	1.245	-	-	-0.13	0.346	0.431
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Full Power	518598	2592.99	4	24.05	25.00	1.245	-	-	0.1	0.358	0.446
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Full Power	518598	2592.99	5	24.05	25.00	1.245	-	-	-0.15	0.376	0.468
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	0.17	0.028	0.035
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.15	0.046	0.057
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	0.16	0.066	0.082
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	0.05	0.174	0.217
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	0.12	0.041	0.057
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	0.07	0.038	0.054
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	0.08	0.084	0.117
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	0.19	0.065	0.092
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	-0.06	0.046	0.064
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	0	0.032	0.046
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	-0.03	0.026	0.036
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	0.07	0.000	0.000
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	-0.12	0.040	0.056
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	-0.03	0.000	0.000
3500MHz																					
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	10mm	Ant 2	Hotspot on	42590	3500	1	18.54	20.00	1.400	62.9	1.006	0.19	0.054	0.076
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	10mm	Ant 2	Hotspot on	42590	3500	1	18.52	20.00	1.406	62.9	1.006	0.07	0.043	0.061
56	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	10mm	Ant 2	Hotspot on	42590	3500	1	18.54	20.00	1.400	62.9	1.006	0.04	0.395	**0.556**
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	10mm	Ant 2	Hotspot on	42590	3500	1	18.52	20.00	1.406	62.9	1.006	-0.15	0.306	0.433
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Hotspot on	42590	3500	1	18.54	20.00	1.400	62.9	1.006	-0.08	0.252	0.355
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	Hotspot on	42590	3500	1	18.52	20.00	1.406	62.9	1.006	0.17	0.186	0.263
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	Hotspot on	42590	3500	1	18.54	20.00	1.400	62.9	1.006	-0.13	0.104	0.146
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	Hotspot on	42590	3500	1	18.52	20.00	1.406	62.9	1.006	-0.13	0.086	0.122
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 2	Hotspot on	55830	3609	1	19.06	20.00	1.242	62.9	1.006	0.1	0.054	0.067
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 2	Hotspot on	55830	3609	1	19.04	20.00	1.247	62.9	1.006	0.13	0.046	0.058
57	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	Hotspot on	55830	3609	1	19.06	20.00	1.242	62.9	1.006	-0.04	0.423	**0.528**
	LTE Band 48C	20M	QPSK	1	0	-	Back	10mm	Ant 2	Hotspot on	55830+ 56028	3609+ 3628.8	1	18.87	20.00	1.297	62.9	1.006	0.08	0.391	0.510
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	Hotspot on	55340	3560	1	18.94	20.00	1.276	62.9	1.006	-0.07	0.398	0.511
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	Hotspot on	56150	3641	1	19.03	20.00	1.250	62.9	1.006	-0.05	0.406	0.511
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	Hotspot on	56640	3690	1	19.01	20.00	1.256	62.9	1.006	-0.04	0.409	0.517
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 2	Hotspot on	55830	3609	1	19.04	20.00	1.247	62.9	1.006	0.13	0.339	0.425
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	Hotspot on	55830	3609	1	19.06	20.00	1.242	62.9	1.006	0	0.288	0.360
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	Hotspot on	55830	3609	1	19.04	20.00	1.247	62.9	1.006	-0.19	0.241	0.302
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 2	Hotspot on	55830	3609	1	19.06	20.00	1.242	62.9	1.006	0.12	0.099	0.124
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 2	Hotspot on	55830	3609	1	19.04	20.00	1.247	62.9	1.006	-0.12	0.080	0.100
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.87	20.00	1.297	-	-	0.17	0.050	0.065
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.83	20.00	1.309	-	-	-0.05	0.041	0.054
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.87	20.00	1.297	-	-	-0.06	0.392	0.508
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.83	20.00	1.309	-	-	0.1	0.340	0.445
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.87	20.00	1.297	-	-	0.04	0.262	0.340
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.83	20.00	1.309	-	-	-0.01	0.210	0.275
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.87	20.00	1.297	-	-	0.05	0.011	0.014
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.83	20.00	1.309	-	-	0.06	0.009	0.012
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.87	20.00	1.297	-	-	-0.09	0.099	0.128

	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Hotspot on	641666	3624.99	1	18.83	20.00	1.309	-	-	-0.08	0.069	0.090
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0.02	0.118	0.153
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 3	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	0.12	0.082	0.109
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0.02	0.250	0.324
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 3	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	-0.03	0.185	0.246
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0	0.199	0.258
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	-0.1	0.208	0.277
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0.05	0.037	0.048
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	0	0.044	0.059
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0.07	0.202	0.262
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	0.15	0.145	0.193
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	Hotspot on	641666	3624.99	1	20.03	21.00	1.250	-	-	0.14	0.172	0.215
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	Hotspot on	641666	3624.99	1	19.99	21.00	1.262	-	-	-0.09	0.142	0.179
58	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	641666	3624.99	1	20.03	21.00	1.250	-	-	-0.05	0.441	**0.551**
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	641666	3624.99	2	20.03	21.00	1.250	-	-	-0.08	0.388	0.485
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	641666	3624.99	3	20.03	21.00	1.250	-	-	-0.03	0.403	0.504
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	641666	3624.99	4	20.03	21.00	1.250	-	-	0.12	0.411	0.514
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	641666	3624.99	5	20.03	21.00	1.250	-	-	0.11	0.421	0.526
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	641666	3624.99	1	19.99	21.00	1.262	-	-	-0.12	0.360	0.454
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	Hotspot on	641666	3624.99	1	20.03	21.00	1.250	-	-	-0.19	0.039	0.049
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 4	Hotspot on	641666	3624.99	1	19.99	21.00	1.262	-	-	0.09	0.034	0.043
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	Hotspot on	641666	3624.99	1	20.03	21.00	1.250	-	-	0.13	0.217	0.271
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 4	Hotspot on	641666	3624.99	1	19.99	21.00	1.262	-	-	-0.08	0.183	0.231
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	Hotspot on	641666	3624.99	1	20.03	21.00	1.250	-	-	0.08	0.162	0.203
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 4	Hotspot on	641666	3624.99	1	19.99	21.00	1.262	-	-	-0.04	0.130	0.164
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	-0.13	0.139	0.173
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 5	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	0.12	0.124	0.165
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	-0.08	0.173	0.215
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 5	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	0.17	0.158	0.210
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	-0.16	0.094	0.117
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 5	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	-0.17	0.073	0.097
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	0.11	0.040	0.050
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 5	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	-0.05	0.038	0.050
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	0.03	0.262	0.325
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 5	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	-0.14	0.242	0.321
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	Hotspot on	656000	3840	1	17.57	18.00	1.104	-	-	-0.13	0.068	0.075
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	Hotspot on	656000	3840	1	17.55	18.00	1.109	-	-	-0.01	0.057	0.063
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	Hotspot on	656000	3840	1	17.57	18.00	1.104	-	-	0.04	0.372	0.411
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	Hotspot on	656000	3840	1	17.55	18.00	1.109	-	-	-0.09	0.253	0.281
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Hotspot on	656000	3840	1	17.57	18.00	1.104	-	-	0.02	0.325	0.359
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Hotspot on	656000	3840	1	17.55	18.00	1.109	-	-	-0.13	0.210	0.233
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Hotspot on	656000	3840	1	17.57	18.00	1.104	-	-	0.06	0.015	0.017
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Hotspot on	656000	3840	1	17.55	18.00	1.109	-	-	0	0.018	0.020
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Hotspot on	656000	3840	1	17.57	18.00	1.104	-	-	-0.04	0.078	0.086
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Hotspot on	656000	3840	1	17.55	18.00	1.109	-	-	-0.15	0.056	0.062
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.51	18.00	1.119	-	-	-0.18	0.048	0.054
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.43	18.00	1.140	-	-	-0.11	0.049	0.056
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.51	18.00	1.119	-	-	-0.16	0.402	0.450
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.43	18.00	1.140	-	-	-0.04	0.435	0.496
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.51	18.00	1.119	-	-	-0.06	0.234	0.262
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.43	18.00	1.140	-	-	-0.14	0.234	0.267
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.51	18.00	1.119	-	-	0.01	0.006	0.007

	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.43	18.00	1.140	-	-	0.06	0.004	0.005
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.51	18.00	1.119	-	-	0.02	0.098	0.110
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 2	Hotspot on	633332	3499.98	1	17.43	18.00	1.140	-	-	0.12	0.091	0.104
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	Hotspot on	656000	3840	1	20.27	21.50	1.327	-	-	0.07	0.061	0.081
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	Hotspot on	656000	3840	1	20.22	21.50	1.343	-	-	-0.12	0.053	0.071
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	656000	3840	1	20.27	21.50	1.327	-	-	0.02	0.170	0.226
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	656000	3840	1	20.22	21.50	1.343	-	-	0.02	0.155	0.208
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Hotspot on	656000	3840	1	20.27	21.50	1.327	-	-	0.12	0.158	0.210
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Hotspot on	656000	3840	1	20.22	21.50	1.343	-	-	0.02	0.123	0.165
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Hotspot on	656000	3840	1	20.27	21.50	1.327	-	-	-0.03	0.018	0.024
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Hotspot on	656000	3840	1	20.22	21.50	1.343	-	-	0	0.000	0.000
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Hotspot on	656000	3840	1	20.27	21.50	1.327	-	-	-0.1	0.074	0.098
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Hotspot on	656000	3840	1	20.22	21.50	1.343	-	-	0.05	0.072	0.097
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.47	21.50	1.268	-	-	0.07	0.138	0.175
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.42	21.50	1.282	-	-	0.15	0.127	0.163
59	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.47	21.50	1.268	-	-	-0.02	0.421	**0.534**
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	633332	3499.98	2	20.47	21.50	1.268	-	-	-0.11	0.388	0.492
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	633332	3499.98	3	20.47	21.50	1.268	-	-	0	0.401	0.508
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	633332	3499.98	4	20.47	21.50	1.268	-	-	0.08	0.404	0.512
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	633332	3499.98	5	20.47	21.50	1.268	-	-	-0.08	0.398	0.505
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.42	21.50	1.282	-	-	-0.08	0.391	0.501
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.47	21.50	1.268	-	-	-0.08	0.282	0.357
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.42	21.50	1.282	-	-	-0.13	0.260	0.333
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.47	21.50	1.268	-	-	0.01	0.029	0.037
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.42	21.50	1.282	-	-	-0.11	0.000	0.000
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.47	21.50	1.268	-	-	0.03	0.271	0.344
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 3	Hotspot on	633332	3499.98	1	20.42	21.50	1.282	-	-	-0.05	0.231	0.296
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	Hotspot on	656000	3840	1	19.68	20.00	1.076	-	-	0.08	0.182	0.196
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	Hotspot on	656000	3840	1	19.66	20.00	1.081	-	-	0.01	0.191	0.207
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	656000	3840	1	19.68	20.00	1.076	-	-	-0.04	0.318	0.342
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	656000	3840	1	19.66	20.00	1.081	-	-	-0.01	0.299	0.323
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	Hotspot on	656000	3840	1	19.68	20.00	1.076	-	-	0.1	0.003	0.003
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 4	Hotspot on	656000	3840	1	19.66	20.00	1.081	-	-	-0.04	0.026	0.028
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	Hotspot on	656000	3840	1	19.68	20.00	1.076	-	-	0.15	0.162	0.174
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 4	Hotspot on	656000	3840	1	19.66	20.00	1.081	-	-	0.09	0.166	0.180
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	Hotspot on	656000	3840	1	19.68	20.00	1.076	-	-	0.05	0.143	0.154
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	Hotspot on	656000	3840	1	19.66	20.00	1.081	-	-	0.08	0.141	0.152
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.51	20.00	1.119	-	-	0.18	0.150	0.168
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.34	20.00	1.164	-	-	0.11	0.134	0.156
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.51	20.00	1.119	-	-	0.07	0.212	0.237
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.34	20.00	1.164	-	-	0.01	0.258	0.300
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.51	20.00	1.119	-	-	-0.08	0.019	0.021
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.34	20.00	1.164	-	-	-0.05	0.015	0.017
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.51	20.00	1.119	-	-	-0.03	0.152	0.170
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.34	20.00	1.164	-	-	0.17	0.169	0.197
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.51	20.00	1.119	-	-	0.06	0.118	0.132
	FR1 n77_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	Hotspot on	633332	3499.98	1	19.34	20.00	1.164	-	-	-0.06	0.124	0.144

	Part 27Q																				
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	Hotspot on	656000	3840	1	20.13	20.50	1.089	-	-	0.07	0.167	0.182
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	Hotspot on	656000	3840	1	20.10	20.50	1.096	-	-	-0.09	0.156	0.171
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	Hotspot on	656000	3840	1	20.13	20.50	1.089	-	-	-0.17	0.141	0.154
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	Hotspot on	656000	3840	1	20.10	20.50	1.096	-	-	0.1	0.094	0.103
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	Hotspot on	656000	3840	1	20.13	20.50	1.089	-	-	0.08	0.066	0.072
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	Hotspot on	656000	3840	1	20.10	20.50	1.096	-	-	0	0.042	0.046
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	Hotspot on	656000	3840	1	20.13	20.50	1.089	-	-	-0.13	0.118	0.128
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	Hotspot on	656000	3840	1	20.10	20.50	1.096	-	-	-0.1	0.118	0.129
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	Hotspot on	656000	3840	1	20.13	20.50	1.089	-	-	-0.18	0.262	0.285
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	Hotspot on	656000	3840	1	20.10	20.50	1.096	-	-	-0.07	0.247	0.271
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.29	20.50	1.050	-	-	-0.04	0.182	0.191
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.27	20.50	1.054	-	-	-0.17	0.180	0.190
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.29	20.50	1.050	-	-	0.01	0.120	0.126
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.27	20.50	1.054	-	-	0.1	0.145	0.153
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.29	20.50	1.050	-	-	0.11	0.088	0.092
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.27	20.50	1.054	-	-	-0.07	0.090	0.095
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.29	20.50	1.050	-	-	0.18	0.050	0.052
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.27	20.50	1.054	-	-	0.12	0.059	0.062
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.29	20.50	1.050	-	-	0.07	0.360	0.378
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	Hotspot on	633332	3499.98	1	20.27	20.50	1.054	-	-	-0.04	0.371	0.391

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																	
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 6+7(6)	Non DBS	1	2412	1	17.01	19.00	1.581	99.1	1.009	-0.03	0.147	0.235
60	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	Non DBS	1	2412	1	17.01	19.00	1.581	99.1	1.009	0.08	0.243	**0.388**
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	DBS	1	2412	1	13.93	15.50	1.435	99.1	1.009	-0.07	0.112	0.162
	WLAN2.4GHz	802.11b 1Mbps	Left Side	10mm	Ant 6+7(6)	Non DBS	1	2412	1	17.01	19.00	1.581	99.1	1.009	0.05	0.028	0.045
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 6+7(6)	Non DBS	1	2412	1	17.01	19.00	1.581	99.1	1.009	0.06	0.177	0.282
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 6+7(6)	Non DBS	1	2412	1	17.01	19.00	1.581	99.1	1.009	-0.11	0.086	0.137
	Bluetooth	1Mbps	Front	10mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.12	0.000	0.000
	Bluetooth	1Mbps	Back	10mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.04	0.005	0.006
	Bluetooth	1Mbps	Left Side	10mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	0.03	0.000	0.000
61	Bluetooth	1Mbps	Right Side	10mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.09	0.006	**0.007**
	Bluetooth	1Mbps	Right Side	10mm	Ant 6	Full Power	0	2402	1	8.33	9.00	1.166	76.86	1.084	0.09	0.003	0.004
	Bluetooth	1Mbps	Right Side	10mm	Ant 6	Full Power	78	2480	1	7.62	9.00	1.373	76.86	1.084	0.04	0.004	0.006
	Bluetooth	1Mbps	Top Side	10mm	Ant 6	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.16	0.000	0.000
5000MHz																	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(6)	Non DBS	42	5210	1	9.93	11.50	1.435	100	1.000	-0.02	0.096	0.138
62	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	Non DBS	42	5210	1	9.93	11.50	1.435	100	1.000	0.04	0.266	**0.382**
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	DBS	42	5210	1	7.07	8.50	1.390	100	1.000	0.15	0.122	0.170
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(6)	Non DBS	46	5230	1	9.93	11.50	1.435	100	1.000	-0.09	0.000	0.000
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(6)	Non DBS	46	5230	1	9.93	11.50	1.435	100	1.000	0.11	0.174	0.250
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(6)	Non DBS	46	5230	1	9.93	11.50	1.435	100	1.000	-0.05	0.109	0.156
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	-0.08	0.052	0.073
63	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	0.01	0.279	**0.391**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	DBS	155	5775	1	4.72	6.50	1.507	100	1.000	0.11	0.132	0.199
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	10mm	Ant 6+7(7)	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	0	0.007	0.010
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	10mm	Ant 6+7(7)	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	-0.13	0.127	0.178
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	10mm	Ant 6+7(7)	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	-0.01	0.058	0.081

15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																						
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	-0.09	0.177	0.225
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	-	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	0.11	0.152	0.190
64	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	133297	680.5	1	23.96	25.00	1.271	-	-	0.01	0.222	**0.282**
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	-	Full Power	133297	680.5	1	23.03	24.00	1.250	-	-	-0.05	0.181	0.226
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	0.01	0.159	0.199
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	-	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	0.03	0.131	0.163
65	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	23095	707.5	1	24.03	25.00	1.250	-	-	-0.05	0.181	**0.226**
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	-	Full Power	23095	707.5	1	23.04	24.00	1.247	-	-	-0.08	0.154	0.192
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	23230	782	1	24.16	25.00	1.213	-	-	-0.17	0.185	0.224
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	-	Full Power	23230	782	1	23.23	24.00	1.194	-	-	-0.03	0.145	0.173
66	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	23230	782	1	24.16	25.00	1.213	-	-	-0.05	0.228	**0.277**
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	-	Full Power	23230	782	1	23.23	24.00	1.194	-	-	0.14	0.200	0.239
	LTE Band 14	10M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	23330	793	1	24.12	25.00	1.225	-	-	-0.05	0.157	0.192
	LTE Band 14	10M	QPSK	25	0	-	Front	10mm	Ant 1	-	Full Power	23330	793	1	23.22	24.00	1.197	-	-	0.01	0.119	0.142
67	LTE Band 14	10M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	23330	793	1	24.12	25.00	1.225	-	-	0.05	0.193	**0.236**
	LTE Band 14	10M	QPSK	25	0	-	Back	10mm	Ant 1	-	Full Power	23330	793	1	23.22	24.00	1.197	-	-	0.1	0.167	0.200
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	-0.05	0.124	0.148
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	0.18	0.145	0.178
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	136100	680.5	1	23.22	24.00	1.197	-	-	-0.16	0.181	0.217
68	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	136100	680.5	1	23.12	24.00	1.225	-	-	0.14	0.179	**0.219**
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	-0.18	0.108	0.124
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	-0.03	0.116	0.140
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	141500	707.5	1	23.39	24.00	1.151	-	-	-0.14	0.151	0.174
69	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	141500	707.5	1	23.19	24.00	1.205	-	-	-0.04	0.146	**0.176**
	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	156400	782	1	23.12	24.00	1.225	-	-	0.04	0.147	0.180
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	156400	782	1	23.05	24.00	1.245	-	-	-0.01	0.135	0.168
70	FR1 n13	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	156400	782	1	23.12	24.00	1.225	-	-	0.09	0.184	**0.225**
	FR1 n13	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	156400	782	1	23.05	24.00	1.245	-	-	-0.08	0.159	0.198
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	158600	793	1	23.31	24.00	1.172	-	-	0.03	0.131	0.154
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	158600	793	1	23.27	24.00	1.183	-	-	0.18	0.114	0.135
71	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	158600	793	1	23.31	24.00	1.172	-	-	-0.13	0.168	**0.197**
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	158600	793	1	23.27	24.00	1.183	-	-	0.16	0.143	0.169
835MHz																						
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	-	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	0.18	0.220	0.280
72	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	-	Full Power	4182	836.4	1	23.96	25.00	1.271	-	-	-0.06	0.316	**0.402**
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	-0.09	0.217	0.263
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	-	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	-0.08	0.184	0.222
73	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	26865	831.5	1	24.17	25.00	1.211	-	-	-0.01	0.329	**0.398**
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	-	Full Power	26865	831.5	1	23.19	24.00	1.205	-	-	0.13	0.264	0.318
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	-0.08	0.211	0.246
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.05	0.209	0.245
74	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	166300	831.5	1	23.34	24.00	1.164	-	-	0.19	0.309	**0.360**
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	166300	831.5	1	23.31	24.00	1.172	-	-	-0.03	0.279	0.327
1750MHz																						
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	-	Sensor on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.08	0.399	0.516
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	-	Sensor on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.01	0.840	1.087
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	-	Sensor on	1312	1712.4	1	21.72	23.00	1.343	-	-	0.03	0.814	1.093
75	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	-	Sensor on	1513	1752.6	1	21.85	23.00	1.303	-	-	-0.08	0.860	**1.121**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	Headset	Sensor on	1413	1732.6	1	21.88	23.00	1.294	-	-	0.06	0.811	1.050
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	14mm	Ant 0	-	Full Power	1413	1732.6	1	23.71	25.00	1.346	-	-	0.18	0.236	0.318

	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	29mm	Ant 0	-	Full Power	1413	1732.6	1	23.71	25.00	1.346	-	-	0.14	0.088	0.118
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	-	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	0.19	0.148	0.178
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	-	Full Power	1413	1732.6	1	23.20	24.00	1.202	-	-	0.07	0.151	0.182
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	-	Full Power	1312	1712.4	1	23.14	24.00	1.219	-	-	0.08	0.126	0.154
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	-	Full Power	1513	1752.6	1	23.06	24.00	1.242	-	-	0.01	0.133	0.165
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 0	-	Sensor on	132322	1745	1	22.51	23.00	1.119	-	-	-0.15	0.498	0.557
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 0	-	Sensor on	132322	1745	1	22.49	23.00	1.125	-	-	0.16	0.407	0.458
76	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Sensor on	132322	1745	1	22.51	23.00	1.119	-	-	-0.02	1.040	**1.164**
	LTE Band 66C	20M	QPSK	1	99	-	Back	10mm	Ant 0	-	Sensor on	132322+ 132520	1745+ 1764.8	1	22.41	23.00	1.146	-	-	0.09	0.991	1.135
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Sensor on	132072	1720	1	22.44	23.00	1.138	-	-	0.05	0.978	1.113
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Sensor on	132572	1770	1	22.49	23.00	1.125	-	-	-0.06	1.000	1.125
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	-	Sensor on	132322	1745	1	22.49	23.00	1.125	-	-	-0.13	1.020	1.147
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	-	Sensor on	132072	1720	1	22.35	23.00	1.161	-	-	-0.01	0.811	0.942
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 0	-	Sensor on	132572	1770	1	22.38	23.00	1.153	-	-	-0.11	0.851	0.982
	LTE Band 66	20M	QPSK	100	0	-	Back	10mm	Ant 0	-	Sensor on	132322	1745	1	22.46	23.00	1.132	-	-	0.19	0.908	1.028
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 0	-	Full Power	132322	1745	1	23.28	24.00	1.180	-	-	-0.17	0.306	0.361
	LTE Band 66	20M	QPSK	1	0	-	Back	29mm	Ant 0	-	Full Power	132322	1745	1	23.28	24.00	1.180	-	-	0.17	0.227	0.268
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	-0.15	0.127	0.159
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 1	-	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	0.11	0.115	0.143
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	132322	1745	1	23.03	24.00	1.250	-	-	-0.08	0.146	0.183
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 1	-	Full Power	132322	1745	1	22.05	23.00	1.245	-	-	-0.17	0.122	0.152
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	132072	1720	1	22.97	24.00	1.268	-	-	0.03	0.121	0.153
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	132572	1770	1	22.92	24.00	1.282	-	-	-0.08	0.119	0.153
	LTE Band 66	20M	QPSK	1	0	-	Front	10mm	Ant 5	-	Sensor on	132322	1745	1	19.32	20.00	1.169	-	-	0.19	0.367	0.429
	LTE Band 66	20M	QPSK	50	0	-	Front	10mm	Ant 5	-	Sensor on	132322	1745	1	19.30	20.00	1.175	-	-	0.12	0.348	0.409
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	-	Sensor on	132322	1745	1	19.32	20.00	1.169	-	-	-0.05	0.441	0.516
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	-	Sensor on	132072	1720	1	19.29	20.00	1.178	-	-	-0.09	0.361	0.425
	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 5	-	Sensor on	132572	1770	1	19.24	20.00	1.191	-	-	-0.18	0.318	0.379
	LTE Band 66	20M	QPSK	50	0	-	Back	10mm	Ant 5	-	Sensor on	132322	1745	1	19.30	20.00	1.175	-	-	0.12	0.398	0.468
	LTE Band 66	20M	QPSK	1	0	-	Front	14mm	Ant 5	-	Full Power	132322	1745	1	23.31	24.00	1.172	-	-	-0.05	0.355	0.416
	LTE Band 66	20M	QPSK	1	0	-	Back	29mm	Ant 5	-	Full Power	132322	1745	1	23.31	24.00	1.172	-	-	0.01	0.164	0.192
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.16	0.404	0.491
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	-0.03	0.390	0.474
77	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	0.03	0.897	**1.091**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	349000	1745	1	23.15	24.00	1.216	-	-	0.17	0.891	1.084
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	349000	1745	1	22.73	24.00	1.340	-	-	0.02	0.805	1.078
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	-0.03	0.112	0.160
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	0.08	0.106	0.154
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	349000	1745	1	22.45	24.00	1.429	-	-	-0.07	0.121	0.173
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	349000	1745	1	22.38	24.00	1.452	-	-	0.05	0.099	0.144
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	-	Sensor on	349000	1745	1	19.27	20.00	1.183	-	-	-0.19	0.349	0.413
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	-	Sensor on	349000	1745	1	19.13	20.00	1.222	-	-	0.03	0.331	0.404
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	-	Sensor on	349000	1745	1	19.27	20.00	1.183	-	-	-0.01	0.418	0.495
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	-	Sensor on	349000	1745	1	19.13	20.00	1.222	-	-	0.01	0.389	0.475
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 5	-	Full Power	349000	1745	1	23.22	24.00	1.197	-	-	0.1	0.340	0.407
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	29mm	Ant 5	-	Full Power	349000	1745	1	23.22	24.00	1.197	-	-	-0.17	0.169	0.202
1900MHz																						
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	-	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	0.03	0.443	0.593
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	-	Full Power	9400	1880	1	23.73	25.00	1.340	-	-	-0.17	0.713	0.955
78	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	-	Full Power	9262	1852.4	1	23.71	25.00	1.346	-	-	-0.16	0.788	**1.061**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	-	Full Power	9538	1907.6	1	23.55	25.00	1.396	-	-	0.02	0.629	0.878
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	-	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	-0.08	0.203	0.241
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	-	Full Power	9400	1880	1	23.25	24.00	1.189	-	-	-0.13	0.143	0.170
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	-	Full Power	9262	1852.4	1	23.21	24.00	1.199	-	-	-0.18	0.186	0.223
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	-	Full Power	9538	1907.6	1	23.16	24.00	1.213	-	-	0.1	0.191	0.232
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 0	-	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	-0.11	0.380	0.460

	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 0	-	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	0.18	0.325	0.397
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	26340	1880	1	23.17	24.00	1.211	-	-	0.16	0.669	0.810
79	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	26140	1860	1	23.10	24.00	1.230	-	-	0.05	0.727	**0.894**
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	26590	1905	1	22.98	24.00	1.265	-	-	0.19	0.577	0.730
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 0	-	Full Power	26340	1880	1	22.13	23.00	1.222	-	-	0.13	0.643	0.786
	LTE Band 25	20M	QPSK	100	0	-	Back	10mm	Ant 0	-	Full Power	26340	1880	1	21.97	23.00	1.268	-	-	0.19	0.558	0.707
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	-0.09	0.176	0.225
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 1	-	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	0.11	0.138	0.173
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	26340	1880	1	22.93	24.00	1.279	-	-	-0.05	0.140	0.179
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 1	-	Full Power	26340	1880	1	22.03	23.00	1.250	-	-	-0.08	0.111	0.139
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	26140	1860	1	22.83	24.00	1.309	-	-	0.12	0.158	0.207
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	26590	1905	1	22.89	24.00	1.291	-	-	0.08	0.161	0.208
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 5	-	Sensor on	18900	1880	1	20.68	21.50	1.208	-	-	0.08	0.219	0.265
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 5	-	Sensor on	18900	1880	1	20.66	21.50	1.213	-	-	0.01	0.211	0.256
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	-	Sensor on	18900	1880	1	20.68	21.50	1.208	-	-	0.03	0.388	0.469
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 5	-	Sensor on	18900	1880	1	20.66	21.50	1.213	-	-	-0.08	0.340	0.413
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	-	Sensor on	18700	1860	1	20.63	21.50	1.222	-	-	-0.08	0.373	0.456
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 5	-	Sensor on	19100	1900	1	20.64	21.50	1.219	-	-	0.1	0.301	0.367
	LTE Band 2	20M	QPSK	1	0	-	Front	14mm	Ant 5	-	Full Power	18900	1880	1	23.22	24.00	1.197	-	-	-0.18	0.211	0.253
	LTE Band 2	20M	QPSK	1	0	-	Back	29mm	Ant 5	-	Full Power	18900	1880	1	23.22	24.00	1.197	-	-	0.1	0.151	0.181
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	-0.13	0.310	0.388
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	-0.01	0.294	0.374
80	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	376500	1882.5	1	23.02	24.00	1.253	-	-	0.05	0.602	**0.754**
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	376500	1882.5	1	22.96	24.00	1.271	-	-	-0.09	0.536	0.681
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	0.07	0.143	0.202
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	0.16	0.145	0.215
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	376500	1882.5	1	22.49	24.00	1.416	-	-	0.13	0.106	0.150
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	376500	1882.5	1	22.29	24.00	1.483	-	-	-0.18	0.111	0.165
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 5	-	Full Power	376500	1882.5	1	23.33	24.00	1.167	-	-	-0.15	0.374	0.436
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 5	-	Full Power	376500	1882.5	1	23.29	24.00	1.178	-	-	-0.15	0.318	0.374
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 5	-	Full Power	376500	1882.5	1	23.33	24.00	1.167	-	-	-0.03	0.415	0.484
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 5	-	Full Power	376500	1882.5	1	23.29	24.00	1.178	-	-	-0.08	0.360	0.424
2300MHz																							
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 0	-	Sensor on	27710	2310	1	21.19	21.50	1.074	-	-	0.19	0.208	0.223
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 0	-	Sensor on	27710	2310	1	21.16	21.50	1.081	-	-	-0.06	0.171	0.185
81	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 0	-	Sensor on	27710	2310	1	21.19	21.50	1.074	-	-	0.07	1.060	**1.138**
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 0	-	Sensor on	27710	2310	1	21.16	21.50	1.081	-	-	-0.03	0.861	0.931
	LTE Band 30	10M	QPSK	50	0	-	Back	10mm	Ant 0	-	Sensor on	27710	2310	1	21.11	21.50	1.094	-	-	0.07	0.885	0.968
	LTE Band 30	10M	QPSK	1	0	-	Front	14mm	Ant 0	-	Full Power	27710	2310	1	22.53	23.00	1.114	-	-	-0.08	0.165	0.184
	LTE Band 30	10M	QPSK	1	0	-	Back	29mm	Ant 0	-	Full Power	27710	2310	1	22.53	23.00	1.114	-	-	0.05	0.185	0.206
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	-0.01	0.252	0.321
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 1	-	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.06	0.208	0.271
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	27710	2310	1	21.95	23.00	1.274	-	-	-0.04	0.196	0.250
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 1	-	Full Power	27710	2310	1	20.85	22.00	1.303	-	-	-0.09	0.148	0.193
	LTE Band 30	10M	QPSK	1	0	-	Front	10mm	Ant 2	-	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	0	0.106	0.152
	LTE Band 30	10M	QPSK	25	0	-	Front	10mm	Ant 2	-	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	-0.13	0.084	0.116
	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 2	-	Full Power	27710	2310	1	22.43	24.00	1.435	-	-	-0.01	0.127	0.182
	LTE Band 30	10M	QPSK	25	0	-	Back	10mm	Ant 2	-	Full Power	27710	2310	1	21.58	23.00	1.387	-	-	-0.09	0.096	0.133
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Sensor on	462000	2310	1	21.88	23.00	1.294	-	-	-0.15	0.215	0.278
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Sensor on	462000	2310	1	21.85	23.00	1.303	-	-	-0.06	0.204	0.266
82	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Sensor on	462000	2310	1	21.88	23.00	1.294	-	-	-0.05	0.984	**1.273**
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0		Sensor on	462000	2310	2	21.88	23.00	1.294	-	-	-0.03	0.891	1.153
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0		Sensor on	462000	2310	3	21.88	23.00	1.294	-	-	-0.17	0.931	1.205
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0		Sensor on	462000	2310	4	21.88	23.00	1.294	-	-	-0.08	0.970	1.255
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0		Sensor on	462000	2310	5	21.88	23.00	1.294	-	-	0.07	0.961	1.244
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Sensor on	462000	2310	1	21.85	23.00	1.303	-	-	-0.14	0.890	1.160

	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Sensor on	462000	2310	1	21.78	23.00	1.324	-	-	-0.19	0.906	1.200
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	Headset	Sensor on	462000	2310	1	21.88	23.00	1.294	-	-	0.06	0.952	1.232
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	14mm	Ant 0	-	Full Power	462000	2310	1	22.83	24.00	1.309	-	-	0.06	0.151	0.198
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	29mm	Ant 0	-	Full Power	462000	2310	1	22.83	24.00	1.309	-	-	-0.09	0.169	0.221
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	-0.04	0.173	0.206
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	-0.15	0.178	0.219
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	462000	2310	1	22.25	23.00	1.189	-	-	0.11	0.214	0.254
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	462000	2310	1	22.10	23.00	1.230	-	-	-0.02	0.208	0.256
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	-	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	-0.06	0.109	0.135
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Front	10mm	Ant 2	-	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	-0.14	0.105	0.135
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	-	Full Power	462000	2310	1	23.08	24.00	1.236	-	-	-0.19	**0.135**	0.167
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	10mm	Ant 2	-	Full Power	462000	2310	1	22.90	24.00	1.288	-	-	0.01	0.116	0.149
2600MHz																						
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 0	-	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	-0.08	0.387	0.439
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 0	-	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	0.1	0.314	0.349
83	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	21100	2535	1	22.45	23.00	1.135	-	-	-0.09	0.693	**0.787**
	LTE Band 7C	20M	QPSK	1	99	-	Back	10mm	Ant 0	-	Full Power	21100+ 21298	2535+ 2554.8	1	22.25	23.00	1.189	-	-	0.05	0.655	0.778
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	20850	2510	1	22.27	23.00	1.183	-	-	-0.18	0.661	0.782
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	21350	2560	1	22.42	23.00	1.143	-	-	0.1	0.682	0.779
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 0	-	Full Power	21100	2535	1	21.54	22.00	1.112	-	-	0.12	0.690	0.767
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	-0.01	0.400	0.548
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 1	-	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	0.08	0.315	0.440
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	21100	2535	1	21.63	23.00	1.371	-	-	0.01	0.311	0.426
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	-	Full Power	21100	2535	1	20.55	22.00	1.396	-	-	0.03	0.249	0.348
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	20850	2510	1	21.56	23.00	1.393	-	-	-0.17	0.366	0.510
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	21350	2560	1	21.58	23.00	1.387	-	-	-0.03	0.371	0.514
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	-	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	-0.06	0.127	0.157
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	-	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.13	0.104	0.129
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Full Power	21100	2535	1	23.07	24.00	1.239	-	-	-0.08	0.265	0.328
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	-	Full Power	21100	2535	1	22.05	23.00	1.245	-	-	-0.01	0.204	0.254
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Full Power	20850	2510	1	22.93	24.00	1.279	-	-	0.14	0.245	0.313
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Full Power	21350	2560	1	23.05	24.00	1.245	-	-	0.11	0.233	0.290
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 0	-	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	-0.08	0.253	0.292
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 0	-	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	-0.04	0.189	0.215
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	40620	2593	1	22.41	23.00	1.146	62.9	1.006	-0.08	0.355	0.409
	LTE Band 41C	20M	QPSK	1	99	-	Back	10mm	Ant 0	-	Full Power	40620+ 40818	2593+ 2612.8	1	22.22	23.00	1.197	62.9	1.006	0.06	0.331	0.398
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 0	-	Full Power	40620	2593	1	21.46	22.00	1.132	62.9	1.006	0.17	0.353	0.402
84	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Back	10mm	Ant 0	-	Full Power	40620	2593	1	25.41	26.00	1.146	42.9	1.009	-0.02	0.510	**0.589**
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.03	0.285	0.360
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 1	-	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	0.08	0.222	0.286
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	-	Full Power	40620	2593	1	22.01	23.00	1.256	62.9	1.006	-0.17	0.232	0.293
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	-	Full Power	40620	2593	1	20.93	22.00	1.279	62.9	1.006	-0.03	0.184	0.237
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Front	10mm	Ant 1	-	Full Power	40620	2593	1	24.94	26.00	1.276	42.9	1.009	-0.09	0.374	0.482
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 2	-	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	0.14	0.096	0.121
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 2	-	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	0.1	0.077	0.096
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Full Power	40620	2593	1	23.01	24.00	1.256	62.9	1.006	-0.09	0.140	0.177
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	-	Full Power	40620	2593	1	22.06	23.00	1.242	62.9	1.006	0.07	0.120	0.150
	LTE Band 41_ HPUE	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Full Power	40620	2593	1	26.12	27.00	1.225	42.9	1.009	0.06	0.186	0.230
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	0.17	0.280	0.366
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 0	-	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	-0.05	0.297	0.389
85	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	507000	2535	1	22.84	24.00	1.306	-	-	-0.01	0.565	**0.738**
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 0	-	Full Power	507000	2535	1	22.83	24.00	1.309	-	-	0.01	0.527	0.690
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	-0.02	0.460	0.579
	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Front	10mm	Ant 1	-	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.02	0.457	0.609
	FR1 n7	40M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	507000	2535	1	22.00	23.00	1.259	-	-	0.16	0.443	0.558

	FR1 n7	40M	QPSK	108	54	DFT-SCS-15KHz	Back	10mm	Ant 1	-	Full Power	507000	2535	1	21.75	23.00	1.334	-	-	0.01	0.452	0.603
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 0	-	Sensor on	518598	2592.99	1	23.60	25.00	1.380	-	-	0.07	0.339	0.468
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 0	-	Sensor on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.18	0.355	0.501
86	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 0	-	Sensor on	518598	2592.99	1	23.60	25.00	1.380	-	-	-0.06	0.618	**0.853**
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 0	-	Sensor on	518598	2592.99	1	23.50	25.00	1.413	-	-	-0.15	0.488	0.689
	FR1 n41_HPUE	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 0	-	Sensor on	518598	2592.99	1	23.41	25.00	1.442	-	-	0.12	0.474	0.684
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 0	-	Full Power	518598	2592.99	1	25.72	27.00	1.343	-	-	0.18	0.201	0.270
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 0	-	Full Power	518598	2592.99	1	25.72	27.00	1.343	-	-	0.16	0.367	0.493
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	-	Full Power	518598	2592.99	1	24.71	26.00	1.346	-	-	0.11	0.385	0.518
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	-	Full Power	518598	2592.99	1	24.61	26.00	1.377	-	-	-0.05	0.534	0.735
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	-	Full Power	518598	2592.99	1	24.71	26.00	1.346	-	-	0.16	0.452	0.608
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	-	Full Power	518598	2592.99	1	24.61	26.00	1.377	-	-	-0.07	0.575	0.792
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	0.02	0.091	0.113
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.16	0.185	0.230
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Full Power	518598	2592.99	1	24.07	25.00	1.239	-	-	0.05	0.161	0.199
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Full Power	518598	2592.99	1	24.05	25.00	1.245	-	-	-0.03	0.265	0.330
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	0.12	0.041	0.057
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	0.07	0.038	0.054
	FR1 n41_HPUE	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Full Power	518598	2592.99	1	24.56	26.00	1.393	-	-	0.08	0.084	0.117
	FR1 n41_HPUE	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Full Power	518598	2592.99	1	24.47	26.00	1.422	-	-	0.19	0.065	0.092
3500MHz																						
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	10mm	Ant 2	-	Sensor on	42590	3500	1	18.54	20.00	1.400	62.9	1.006	0.19	0.054	0.076
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Front	10mm	Ant 2	-	Sensor on	42590	3500	1	18.52	20.00	1.406	62.9	1.006	0.07	0.043	0.061
87	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Sensor on	42590	3500	1	18.54	20.00	1.400	62.9	1.006	0.04	0.395	**0.556**
	LTE Band 42 Part27Q	20M	QPSK	50	0	-	Back	10mm	Ant 2	-	Sensor on	42590	3500	1	18.52	20.00	1.406	62.9	1.006	-0.15	0.306	0.433
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	Full Power	42590	3500	1	23.60	25.00	1.380	62.9	1.006	-0.1	0.023	0.032
	LTE Band 42 Part27Q	20M	QPSK	1	0	-	Back	29mm	Ant 2	-	Full Power	42590	3500	1	23.60	25.00	1.380	62.9	1.006	-0.15	0.315	0.437
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 2	-	Sensor on	55830	3609	1	19.06	20.00	1.242	62.9	1.006	-0.08	0.054	0.067
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 2	-	Sensor on	55830	3609	1	19.04	20.00	1.247	62.9	1.006	0.12	0.046	0.058
88	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Sensor on	55830	3609	1	19.06	20.00	1.242	62.9	1.006	-0.04	0.423	**0.528**
	LTE Band 48C	20M	QPSK	1	99	-	Back	10mm	Ant 2	-	Sensor on	55830+ 56028	3609+ 3628.8	1	18.87	20.00	1.297	62.9	1.006	0.09	0.388	0.506
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Sensor on	55340	3560	1	18.94	20.00	1.276	62.9	1.006	-0.07	0.398	0.511
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Sensor on	56150	3641	1	19.03	20.00	1.250	62.9	1.006	-0.05	0.406	0.511
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 2	-	Sensor on	56640	3690	1	19.01	20.00	1.256	62.9	1.006	-0.04	0.409	0.517
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 2	-	Sensor on	55830	3609	1	19.04	20.00	1.247	62.9	1.006	0.13	0.339	0.425
	LTE Band 48	20M	QPSK	1	0	-	Front	14mm	Ant 2	-	Full Power	55830	3609	1	23.96	25.00	1.271	62.9	1.006	-0.07	0.047	0.060
	LTE Band 48	20M	QPSK	1	0	-	Back	29mm	Ant 2	-	Full Power	55830	3609	1	23.96	25.00	1.271	62.9	1.006	0.05	0.357	0.456
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Sensor on	641666	3624.99	1	18.87	20.00	1.297	-	-	0.17	0.050	0.065
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Sensor on	641666	3624.99	1	18.83	20.00	1.309	-	-	-0.05	0.041	0.054
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Sensor on	641666	3624.99	1	18.87	20.00	1.297	-	-	-0.06	0.392	0.508
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Sensor on	641666	3624.99	1	18.83	20.00	1.309	-	-	0.1	0.340	0.445
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 2	-	Full Power	641666	3624.99	1	23.06	24.00	1.242	-	-	0.03	0.039	0.048
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 2	-	Full Power	641666	3624.99	1	23.06	24.00	1.242	-	-	-0.16	0.315	0.391
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0.02	0.118	0.153
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	0.12	0.082	0.109
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Full Power	641666	3624.99	1	21.87	23.00	1.297	-	-	0.02	0.250	0.324
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Full Power	641666	3624.99	1	21.76	23.00	1.330	-	-	-0.03	0.185	0.246
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	-	Sensor on	641666	3624.99	1	20.03	21.00	1.250	-	-	0.14	0.172	0.215
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	-	Sensor on	641666	3624.99	1	19.99	21.00	1.262	-	-	-0.09	0.142	0.179
89	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	-	Sensor on	641666	3624.99	1	20.03	21.00	1.250	-	-	-0.05	0.441	**0.551**
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	-	Sensor on	641666	3624.99	1	19.99	21.00	1.262	-	-	-0.12	0.360	0.454
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 4	-	Full Power	641666	3624.99	1	23.02	24.00	1.253	-	-	-0.09	0.160	0.201
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 4	-	Full Power	641666	3624.99	1	23.02	24.00	1.253	-	-	0.11	0.180	0.226
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	-	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	-0.13	0.139	0.173

	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 5	-	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	0.12	0.124	0.165
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	-	Full Power	641666	3624.99	1	20.06	21.00	1.242	-	-	-0.08	0.173	0.215
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 5	-	Full Power	641666	3624.99	1	19.77	21.00	1.327	-	-	0.17	0.158	0.210
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Sensor on	656000	3840	1	17.57	18.00	1.104	-	-	-0.13	0.068	0.075
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Sensor on	656000	3840	1	17.55	18.00	1.109	-	-	-0.01	0.057	0.063
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Sensor on	656000	3840	1	17.57	18.00	1.104	-	-	0.04	0.372	0.411
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Sensor on	656000	3840	1	17.55	18.00	1.109	-	-	-0.09	0.253	0.281
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 2	-	Full Power	656000	3840	1	25.45	26.00	1.135	-	-	-0.01	0.280	0.318
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 2	-	Full Power	656000	3840	1	25.45	26.00	1.135	-	-	-0.06	0.344	0.390
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Sensor on	633332	3499.98	1	17.51	18.00	1.119	-	-	-0.18	0.049	0.055
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	-	Sensor on	633332	3499.98	1	17.43	18.00	1.140	-	-	-0.11	0.046	0.052
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Sensor on	633332	3499.98	1	17.51	18.00	1.119	-	-	-0.16	0.402	0.450
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	-	Sensor on	633332	3499.98	1	17.43	18.00	1.140	-	-	-0.04	0.435	0.496
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 2	-	Full Power	633332	3499.98	1	25.47	26.00	1.130	-	-	0	0.144	0.163
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 2	-	Full Power	633332	3499.98	1	25.47	26.00	1.130	-	-	0.01	0.346	0.391
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Sensor on	656000	3840	1	20.27	21.50	1.327	-	-	0.07	0.061	0.081
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Sensor on	656000	3840	1	20.22	21.50	1.343	-	-	-0.12	0.053	0.071
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Sensor on	656000	3840	1	20.27	21.50	1.327	-	-	0.02	0.170	0.226
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Sensor on	656000	3840	1	20.22	21.50	1.343	-	-	0.02	0.155	0.208
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 3	-	Full Power	656000	3840	1	23.81	25.00	1.315	-	-	0.02	0.106	0.139
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 3	-	Full Power	656000	3840	1	23.81	25.00	1.315	-	-	0.16	0.156	0.205
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Sensor on	633332	3499.98	1	20.47	21.50	1.268	-	-	0.07	0.138	0.175
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	-	Sensor on	633332	3499.98	1	20.42	21.50	1.282	-	-	0.15	0.127	0.163
90	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Sensor on	633332	3499.98	1	20.47	21.50	1.268	-	-	-0.02	0.421	**0.534**
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	-	Sensor on	633332	3499.98	1	20.42	21.50	1.282	-	-	-0.08	0.391	0.501
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 3	-	Full Power	633332	3499.98	1	24.25	25.00	1.189	-	-	0.13	0.148	0.176
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 3	-	Full Power	633332	3499.98	1	24.25	25.00	1.189	-	-	-0.18	0.136	0.162
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	-	Sensor on	656000	3840	1	19.68	20.00	1.076	-	-	0.08	0.191	0.206
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	-	Sensor on	656000	3840	1	19.66	20.00	1.081	-	-	-0.13	0.182	0.197
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	-	Sensor on	656000	3840	1	19.68	20.00	1.076	-	-	-0.04	0.318	0.342
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	-	Sensor on	656000	3840	1	19.66	20.00	1.081	-	-	-0.01	0.299	0.323
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 4	-	Full Power	656000	3840	1	25.35	26.00	1.161	-	-	-0.15	0.275	0.319
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 4	-	Full Power	656000	3840	1	25.35	26.00	1.161	-	-	0.02	0.237	0.275
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	-	Sensor on	633332	3499.98	1	19.51	20.00	1.119	-	-	0.18	0.150	0.168
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	-	Sensor on	633332	3499.98	1	19.34	20.00	1.164	-	-	0.11	0.133	0.155
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	-	Sensor on	633332	3499.98	1	19.51	20.00	1.119	-	-	0.07	0.212	0.237
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	-	Sensor on	633332	3499.98	1	19.34	20.00	1.164	-	-	0.01	0.258	0.300
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	14mm	Ant 4	-	Full Power	633332	3499.98	1	25.26	26.00	1.186	-	-	0.05	0.192	0.228
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	29mm	Ant 4	-	Full Power	633332	3499.98	1	25.26	26.00	1.186	-	-	-0.03	0.203	0.241
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	-	Full Power	656000	3840	1	22.59	23.00	1.099	-	-	0.17	0.080	0.088
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	-	Full Power	656000	3840	1	22.37	23.00	1.156	-	-	-0.09	0.171	0.198
	FR1 n77_HPUE Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	-	Full Power	656000	3840	1	22.59	23.00	1.099	-	-	0.06	0.068	0.075
	FR1 n77_HPUE Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	-	Full Power	656000	3840	1	22.37	23.00	1.156	-	-	0.01	0.045	0.052
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	-	Full Power	633332	3499.98	1	22.75	23.00	1.059	-	-	-0.04	0.274	0.290
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	-	Full Power	633332	3499.98	1	22.65	23.00	1.084	-	-	-0.11	0.271	0.294
	FR1 n77_HPUE Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	-	Full Power	633332	3499.98	1	22.75	23.00	1.059	-	-	0.03	0.180	0.191
	FR1 n77_HPUE Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	-	Full Power	633332	3499.98	1	22.65	23.00	1.084	-	-	0.09	0.218	0.236

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																		
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 6+7(6)	-	Full Power	1	2412	1	18.68	20.50	1.521	99.1	1.009	0.04	0.233	0.357
91	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	-	Full Power	1	2412	1	18.68	20.50	1.521	99.1	1.009	0.04	0.386	**0.592**
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	-	Full Power	6	2437	1	18.79	20.50	1.483	99.1	1.009	-0.04	0.224	0.335
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	-	Full Power	11	2462	1	18.68	20.50	1.521	99.1	1.009	-0.08	0.224	0.344
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	-	Non DBS	1	2412	1	17.01	19.00	1.581	99.1	1.009	-0.01	0.246	0.392
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 6+7(6)	-	DBS	1	2412	1	13.93	15.50	1.435	99.1	1.009	-0.08	0.124	0.180
	WLAN2.4GHz	802.11b 1Mbps	Front	14mm	Ant 6+7(6)	-	Full Power	1	2412	1	18.68	20.50	1.521	99.1	1.009	-0.04	0.140	0.215
	WLAN2.4GHz	802.11b 1Mbps	Back	29mm	Ant 6+7(6)	-	Full Power	1	2412	1	18.68	20.50	1.521	99.1	1.009	-0.09	0.090	0.138
	Bluetooth	1Mbps	Front	10mm	Ant 6	-	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.17	0.000	0.000
92	Bluetooth	1Mbps	Back	10mm	Ant 6	-	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.04	0.005	**0.006**
	Bluetooth	1Mbps	Back	10mm	Ant 6	-	Full Power	0	2402	1	8.33	9.00	1.166	76.86	1.084	0.03	0.001	0.001
	Bluetooth	1Mbps	Back	10mm	Ant 6	-	Full Power	78	2480	1	7.62	9.00	1.373	76.86	1.084	0.01	0.002	0.003
	Bluetooth	1Mbps	Front	14mm	Ant 6	-	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.17	0.001	0.001
	Bluetooth	1Mbps	Back	29mm	Ant 6	-	Full Power	39	2441	1	8.72	9.00	1.066	76.86	1.084	-0.1	0.001	0.001
5000MHz																		
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(6)	-	Standalone	58	5290	1	16.88	18.50	1.452	100	1.000	0.13	0.311	0.452
93	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	-	Standalone	58	5290	1	16.88	18.50	1.452	100	1.000	-0.02	0.813	**1.181**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	-	Standalone	58	5290	2	16.88	18.50	1.452	100	1.000	-0.02	0.751	1.091
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	-	Standalone	58	5290	3	16.88	18.50	1.452	100	1.000	0.04	0.762	1.107
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7（6）	-	Standalone	58	5290	4	16.88	18.50	1.452	100	1.000	0.08	0.745	1.082
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7（6）	-	Standalone	58	5290	5	16.88	18.50	1.452	100	1.000	0.08	0.685	0.995
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 6+7(7)	-	Non DBS	50	5250	1	9.53	11.00	1.403	100	1.000	0.17	0.260	0.365
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 6+7(7)	-	DBS	50	5250	1	6.89	8.50	1.449	100	1.000	0.18	0.121	0.175
	WLAN5.3GHz	802.11ax-HE40 MCS0	Front	14mm	Ant 6+7(6)	-	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	0.18	0.255	0.390
	WLAN5.3GHz	802.11ax-HE40 MCS0	Back	29mm	Ant 6+7(6)	-	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	-0.17	0.466	0.712
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	-	Standalone	122	5610	1	14.67	16.00	1.358	100	1.000	0.05	0.166	0.225
94	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	-	Standalone	122	5610	1	14.67	16.00	1.358	100	1.000	-0.08	0.792	**1.076**
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 6+7(6)	-	Non DBS	114	5570	1	8.71	10.00	1.346	100	1.000	-0.04	0.295	0.397
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	10mm	Ant 6+7(7)	-	DBS	114	5570	1	6.04	7.50	1.400	100	1.000	-0.08	0.123	0.172
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	-	Standalone	106	5530	1	14.68	16.00	1.355	100	1.000	-0.13	0.623	0.844
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	-	Standalone	138	5690	1	14.61	16.00	1.377	100	1.000	-0.13	0.609	0.839
	WLAN5.5GHz	802.11ax-HE40 MCS0	Front	14mm	Ant 6+7(7)	-	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	-0.04	0.116	0.171
	WLAN5.5GHz	802.11ax-HE40 MCS0	Back	29mm	Ant 6+7(7)	-	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	-0.06	0.644	0.948
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	10mm	Ant 6+7(7)	-	Standalone	155	5775	1	13.76	15.50	1.493	100	1.000	-0.01	0.170	0.254
95	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	-	Standalone	155	5775	1	13.76	15.50	1.493	100	1.000	-0.05	0.784	**1.170**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	-	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	0.06	0.269	0.377
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(7)	-	DBS	155	5775	1	4.72	6.50	1.507	100	1.000	-0.03	0.132	0.199
	WLAN5.8GHz	802.11ac-VHT40 MCS0	Front	14mm	Ant 6+7(7)	-	Full Power	151	5755	1	19.42	21.00	1.439	100	1.000	0	0.143	0.206
	WLAN5.8GHz	802.11ac-VHT40 MCS0	Back	29mm	Ant 6+7(7)	-	Full Power	151	5755	1	19.42	21.00	1.439	100	1.000	-0.03	0.616	0.886

15.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2300MHz																			
96	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	1	21.88	23.00	1.294	-0.05	1.650	**2.135**
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	2	21.88	23.00	1.294	0.02	1.490	1.928
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	3	21.88	23.00	1.294	-0.15	1.530	1.980
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	4	21.88	23.00	1.294	-0.08	1.570	2.032
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	5	21.88	23.00	1.294	-0.18	1.520	1.967
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	1	21.85	23.00	1.303	-0.02	1.590	2.072
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Back	0mm	Ant 0	Sensor on	462000	2310	1	21.78	23.00	1.324	-0.05	1.560	2.066
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Back	29mm	Ant 0	Sensor on	462000	2310	1	22.83	24.00	1.309	0.1	0.096	0.126

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Sample	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)
5000MHz																	
97	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	42	5210	1	16.45	18.00	1.429	100	1.000	-0.04	0.911	**1.302**
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	42	5210	2	16.45	18.00	1.429	100	1.000	0.05	0.804	1.149
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	42	5210	3	16.45	18.00	1.429	100	1.000	-0.04	0.823	1.176
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	42	5210	4	16.45	18.00	1.429	100	1.000	-0.03	0.762	1.089
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	42	5210	5	16.45	18.00	1.429	100	1.000	-0.08	0.695	0.993
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Non DBS	42	5210	1	10.11	11.00	1.227	100	1.000	-0.08	0.253	0.311
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	DBS	42	5210	1	6.41	8.00	1.442	100	1.000	0.16	0.128	0.185
	WLAN5.2GHz	802.11ax-HE40 MCS0	Back	16mm	Ant 6+7(6)	Full Power	46	5230	1	19.66	21.50	1.528	100	1.000	-0.01	0.513	0.784
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6+7(6)	Standalone	58	5290	1	16.88	18.50	1.452	100	1.000	0.02	0.491	0.713
98	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	58	5290	1	16.88	18.50	1.452	100	1.000	-0.07	0.920	**1.336**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	58	5290	2	16.88	18.50	1.452	100	1.000	-0.04	0.804	1.167
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	58	5290	3	16.88	18.50	1.452	100	1.000	-0.18	0.871	1.265
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	58	5290	4	16.88	18.50	1.452	100	1.000	0.11	0.788	1.144
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	58	5290	5	16.88	18.50	1.452	100	1.000	-0.08	0.689	1.001
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7(7)	Non DBS	50	5250	1	9.53	11.00	1.403	100	1.000	0.16	0.263	0.369
	WLAN5.3GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7(7)	DBS	50	5250	1	6.89	8.50	1.449	100	1.000	-0.03	0.117	0.170
	WLAN5.3GHz	802.11ax-HE40 MCS0	Left Side	0mm	Ant 6+7(6)	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	0	0.026	0.040
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+7(6)	Standalone	58	5290	1	16.88	18.50	1.452	100	1.000	0.01	0.853	1.239
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+7(6)	Standalone	58	5290	1	16.88	18.50	1.452	100	1.000	-0.06	0.630	0.915
	WLAN5.3GHz	802.11ax-HE40 MCS0	Front	2mm	Ant 6+7(6)	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	-0.13	0.830	1.268
	WLAN5.3GHz	802.11ax-HE40 MCS0	Back	16mm	Ant 6+7(6)	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	0.17	0.497	0.759
	WLAN5.3GHz	802.11ax-HE40 MCS0	Right Side	16mm	Ant 6+7(6)	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	0.06	0.291	0.445
	WLAN5.3GHz	802.11ax-HE40 MCS0	Top Side	8mm	Ant 6+7(6)	Full Power	54	5270	1	20.16	22.00	1.528	100	1.000	0.05	0.511	0.781
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6+7(7)	Standalone	122	5610	1	14.67	16.00	1.358	100	1.000	-0.04	0.243	0.330
99	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	122	5610	1	14.67	16.00	1.358	100	1.000	-0.06	0.844	**1.146**
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	122	5610	2	14.67	16.00	1.358	100	1.000	-0.18	0.792	1.076
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	122	5610	3	14.67	16.00	1.358	100	1.000	-0.03	0.811	1.102
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	122	5610	4	14.67	16.00	1.358	100	1.000	-0.05	0.790	1.073
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	122	5610	5	14.67	16.00	1.358	100	1.000	0.17	0.733	0.996
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7(6)	Non DBS	114	5570	1	8.71	10.00	1.346	100	1.000	-0.09	0.231	0.311
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Back	0mm	Ant 6+7(7)	DBS	114	5570	1	6.04	7.50	1.400	100	1.000	-0.17	0.140	0.196
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(6)	Standalone	106	5530	1	14.68	16.00	1.355	100	1.000	-0.1	0.752	1.019
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	138	5690	1	14.61	16.00	1.377	100	1.000	0.18	0.752	1.036
	WLAN5.5GHz	802.11ax-HE40 MCS0	Left Side	0mm	Ant 6+7(7)	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	-0.17	0.035	0.052
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6+7(7)	Standalone	122	5610	1	14.67	16.00	1.358	100	1.000	-0.04	0.392	0.532
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6+7(7)	Standalone	122	5610	1	14.67	16.00	1.358	100	1.000	-0.05	0.326	0.443
	WLAN5.5GHz	802.11ax-HE40 MCS0	Front	2mm	Ant 6+7(7)	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	0	0.646	0.951

	WLAN5.5GHz	802.11ax-HE40 MCS0	Back	16mm	Ant 6+7(7)	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	-0.04	0.770	1.134
	WLAN5.5GHz	802.11ax-HE40 MCS0	Right Side	16mm	Ant 6+7(7)	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	-0.15	0.421	0.620
	WLAN5.5GHz	802.11ax-HE40 MCS0	Top Side	8mm	Ant 6+7(7)	Full Power	126	5630	1	19.82	21.50	1.472	100	1.000	0.01	0.305	0.449
100	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	155	5775	1	13.76	15.50	1.493	100	1.000	0.04	0.896	**1.338**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	155	5775	2	13.76	15.50	1.493	100	1.000	0.16	0.852	1.272
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	155	5775	3	13.76	15.50	1.493	100	1.000	-0.18	0.837	1.249
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	155	5775	4	13.76	15.50	1.493	100	1.000	0.18	0.688	1.027
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Standalone	155	5775	5	13.76	15.50	1.493	100	1.000	0.18	0.571	0.852
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	Non DBS	155	5775	1	8.03	9.50	1.403	100	1.000	0.14	0.259	0.363
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6+7(7)	DBS	155	5775	1	4.72	6.50	1.507	100	1.000	-0.15	0.162	0.244
	WLAN5.8GHz	802.11ac-VHT40 MCS0	Back	16mm	Ant 6+7(7)	Full Power	151	5755	1	19.42	21.00	1.439	100	1.000	0.11	0.672	0.967

15.5 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 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	22.51	23.00	1.119	-	-	-0.02	1.040	1	1.164
2nd	LTE Band 66	20M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	132322	1745	22.51	23.00	1.119	-	-	0.03	1.010	1.030	1.131
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	23.71	25.00	1.346	-	-	0.07	0.805	1	1.083
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	Full Power	9262	1852.4	23.71	25.00	1.346	-	-	0.09	0.796	1.011	1.071
1st	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	27710	2310	21.19	21.50	1.074	-	-	0.07	1.060	1	1.138
2nd	LTE Band 30	10M	QPSK	1	0	-	Back	10mm	Ant 0	Hotspot on	27710	2310	21.19	21.50	1.074	-	-	0.09	1.020	1.039	1.095
1st	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	Standalone	58	5290	16.88	18.50	1.452	100	1.000	-0.02	0.813	1	1.181
2nd	WLAN5.3GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	10mm	Ant 6+7(6)	Standalone	58	5290	16.88	18.50	1.452	100	1.000	0.09	0.797	1.020	1.157

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.

15.6 TDD LTE Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

LTE B41-Linearity Data for Head Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.120	0.151
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.164	
% deviation from expected linearity		-7.80%
LTE B41-Linearity Data for Head Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50
Reported 1g SAR (W/kg)	0.393	0.517
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	22.46	30.65
Linearity SAR (W/kg)	0.536	
% deviation from expected linearity		-3.61%
LTE B41-Linearity Data for Head Ant 2		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.297	0.402
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.405	
% deviation from expected linearity		-0.83%

LTE B41-Linearity Data for Hotspot Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.472	0.683
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.644	
% deviation from expected linearity		6.02%
LTE B41-Linearity Data for Hotspot Ant 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.360	0.482
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.491	
% deviation from expected linearity		-1.90%
LTE B41-Linearity Data for Hotspot Ant 2		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.263	0.387

Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.359	
% deviation from expected linearity		7.81%

LTE B41-Linearity Data for Body worn Ant 0		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.409	0.589
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.558	
% deviation from expected linearity		5.51%
LTE B41-Linearity Data for Body wornAnt 1		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.360	0.482
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	126.30	172.38
Linearity SAR (W/kg)	0.491	
% deviation from expected linearity		-1.90%
LTE B41-Linearity Data for Body worn Ant 2		
	LTE B41 (Power Class 3)	LTE B41 (Power Class 2)
Maximum Tune up Power (dBm)	24.00	27.00
Reported 1g SAR (W/kg)	0.177	0.230
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	159.00	217.01
Linearity SAR (W/kg)	0.242	
% deviation from expected linearity		-4.79%

16. 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 + WLAN6GHz	Yes	Yes		Yes
4.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
6.	WLAN2.4GHz + WLAN6GHz	Yes	Yes		Yes
7.	WLAN2.4GHz+ Bluetooth	Yes	Yes	Yes	Yes
8.	WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
9.	WLAN6GHz+ Bluetooth	Yes	Yes		Yes
10.	WWAN + WLAN2.4GHz + WLAN5GHz	Yes	Yes	Yes	Yes
11.	WWAN + WLAN2.4GHz + WLAN6GHz	Yes	Yes		Yes
12.	WWAN + WLAN2.4GHz+ Bluetooth	Yes	Yes	Yes	Yes
13.	WWAN + WLAN5GHz+ Bluetooth	Yes	Yes	Yes	Yes
14.	WWAN + WLAN6GHz+ Bluetooth	Yes	Yes		Yes
15.	WWAN + WLAN2.4GHz+NFC				Yes
16.	WWAN + WLAN5GHz+NFC				Yes
17.	WWAN + WLAN6GHz+NFC				Yes
18.	WWAN + Bluetooth+NFC				Yes
19.	WLAN2.4GHz + WLAN5GHz+NFC				Yes
20.	WLAN2.4GHz + WLAN6GHz+NFC				Yes
21.	WLAN2.4GHz+ Bluetooth+NFC				Yes
22.	WLAN5GHz+ Bluetooth+NFC				Yes
23.	WLAN6GHz+ Bluetooth+NFC				Yes
24.	WWAN + WLAN2.4GHz + WLAN5GHz+NFC				Yes
25.	WWAN + WLAN2.4GHz + WLAN6GHz+NFC				Yes
26.	WWAN + WLAN2.4GHz+ Bluetooth+NFC				Yes
27.	WWAN + WLAN5GHz+ Bluetooth+NFC				Yes
28.	WWAN + WLAN6GHz+ Bluetooth+NFC				Yes

General Note:

1. This device supports VoIP in WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands and EN-DC combination.
3. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode.
4. EUT will choose each WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
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). WLAN 6GHz has no hotspot function.
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 path and cannot transmit simultaneously. WLAN2.4GHz and Bluetooth are located on different antennas, they can transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz/6GHz and Bluetooth can transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz/6GHz (Ant 7) and WLAN 2.4GHz (Ant 6) can transmit simultaneously.
11. According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can't transmit simultaneously.
12. NFC can transmit simultaneously with other Radios in extremity exposure condition.
13. For Headset SAR and non-Headset SAR always chose higher SAR to do co-located analysis.
14. For standalone WWAN, always choose the highest SAR among the selected WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
15. For inter-band ULCA SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE bands within the selected antenna per each test position to do co-located with WLAN/Bluetooth. This is the worst

co-located analysis and can represent each LTE bands.

16. For EN-DC SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE bands within the selected antenna per each test position and also the worst SAR of the selected 5GNR Bands within the selected antenna to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE bands and each 5GNR band.
17. The maximum SAR summation is calculated based on the same configuration and test position.
18. For simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in this section did not additional to evaluate 2TX combination of simultaneously transmission.
19. 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 16.6.
20. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis was compliance with KDB 447498 D01, and the device does not support FR2 or another MPE field measurement, therefore SAR report in section 16 has no include TER analysis requirement according to KDB 987594.

16.1 Head Exposure Conditions

Exposure Position	1	2	3	1+3	2+3
	WLAN5GHz Ant 6+7	WLAN6GHz Ant 6+7	Bluetooth Ant 6	Summed	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Right Cheek	0.508	0.119	0.001	0.51	0.12
Right Tilted	0.474	0.110	0.001	0.48	0.11
Left Cheek	1.192	0.299	0.047	1.24	0.35
Left Tilted	0.739	0.157	0.001	0.74	0.16

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+2	1+4+8	1+6+8	1+3+5	1+3+7
		WWAN	WLAN2.4GHz Ant 6+7 Non DBS	WLAN2.4GHz Ant 6+7 DBS	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	WLAN6GHz Ant 6+7 Non DBS	WLAN6GHz Ant 6+7 DBS	Bluetooth Ant 6	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	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)
All Ant0	Right Cheek	0.321	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.67	0.70	0.44	0.69	0.69
	Right Tilted	0.186	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.54	0.57	0.30	0.55	0.56
	Left Cheek	0.328	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.68	0.76	0.67	0.70	0.70
	Left Tilted	0.114	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.47	0.50	0.27	0.48	0.48
All Ant1	Right Cheek	0.613	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.97	1.00	0.73	0.98	0.98
	Right Tilted	0.394	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.75	0.78	0.51	0.76	0.76
	Left Cheek	0.330	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.68	0.76	0.68	0.70	0.70
	Left Tilted	0.279	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.63	0.66	0.44	0.65	0.65
All Ant2	Right Cheek	0.574	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.93	0.96	0.69	0.94	0.94
	Right Tilted	0.443	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.80	0.83	0.55	0.81	0.81
	Left Cheek	0.377	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.73	0.81	0.72	0.75	0.75
	Left Tilted	0.360	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.71	0.74	0.52	0.73	0.73
All Ant3	Right Cheek	0.068	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.42	0.45	0.19	0.44	0.44
	Right Tilted	0.096	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.45	0.48	0.21	0.46	0.47
	Left Cheek	0.100	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.45	0.53	0.45	0.47	0.47
	Left Tilted	0.093	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.45	0.48	0.25	0.46	0.46
All Ant4	Right Cheek	0.213	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.57	0.60	0.33	0.58	0.58
	Right Tilted	0.110	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.46	0.49	0.22	0.48	0.48
	Left Cheek	0.511	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.86	0.94	0.86	0.88	0.88
	Left Tilted	0.263	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.62	0.65	0.42	0.63	0.63
All Ant5	Right Cheek	0.424	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.78	0.81	0.54	0.79	0.79
	Right Tilted	0.481	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.83	0.86	0.59	0.85	0.85
	Left Cheek	0.505	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.86	0.93	0.85	0.87	0.87
	Left Tilted	0.546	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.90	0.93	0.70	0.91	0.92

<UL CA>

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	9	1+2+3	1+2+5+9	1+2+7+9	1+2+4+6	1+2+4+8
			WWAN	WWAN	WLAN2.4GHz Ant 6+7 Non DBS	WLAN2.4GHz Ant 6+7 DBS	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	WLAN6GHz Ant 6+7 Non DBS	WLAN6GHz Ant 6+7 DBS	Bluetooth Ant 6	Summed	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant0 (B2,4)	Ant1 (B5,12, 13,14,17)	Right Cheek	0.107	0.522	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.98	1.01	0.75	1.00	1.00
		Right Tilted	0.075	0.374	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.80	0.83	0.56	0.82	0.82
		Left Cheek	0.135	0.330	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.82	0.89	0.81	0.83	0.83
		Left Tilted	0.074	0.236	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.66	0.69	0.47	0.68	0.68
Ant1 (B5,12, 13,14)	Ant0 (B7,30, 66)	Right Cheek	0.522	0.522	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.40	1.43	1.16	1.41	1.41
		Right Tilted	0.374	0.374	0.352	0.171	0.382	0.197	0.110	0.198	0.001	1.10	1.13	0.86	1.12	1.12
		Left Cheek	0.330	0.330	0.352	0.171	0.382	0.197	0.299	0.198	0.047	1.01	1.09	1.01	1.03	1.03
		Left Tilted	0.236	0.236	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.82	0.86	0.63	0.84	0.84
Ant0 (B2)	Ant5 (B4,66)	Right Cheek	0.084	0.522	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.96	0.99	0.73	0.97	0.98
		Right Tilted	0.075	0.374	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.80	0.83	0.56	0.82	0.82
		Left Cheek	0.133	0.330	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.82	0.89	0.81	0.83	0.83
		Left Tilted	0.074	0.236	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.66	0.69	0.47	0.68	0.68

<EN-DC>

WWAN Band		Exposure Position	1	2	3	4	5	6	7	8	9	1+2+3	1+2+5+9	1+2+7+9	1+2+4+6	1+2+4+8
			WWAN	FR1	WLAN2.4GHz Ant 6+7 Non DBS	WLAN2.4GHz Ant 6+7 DBS	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	WLAN6GHz Ant 6+7 Non DBS	WLAN6GHz Ant 6+7 DBS	Bluetooth Ant 6	Summed	Summed	Summed	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Ant1 (B5,12, 13,14, 26,66,71)	Ant0 (n2,7,25, 30,66, 38,41)	Right Cheek	0.522	0.321	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.20	1.23	0.96	1.21	1.21
		Right Tilted	0.374	0.186	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.91	0.94	0.67	0.93	0.93
		Left Cheek	0.330	0.328	0.352	0.171	0.382	0.197	0.299	0.198	0.047	1.01	1.09	1.00	1.03	1.03
		Left Tilted	0.236	0.114	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.70	0.73	0.51	0.72	0.72
Ant1 (B5,12,71)	Ant2 (n78)	Right Cheek	0.502	0.476	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.33	1.36	1.10	1.35	1.35
		Right Tilted	0.374	0.273	0.352	0.171	0.382	0.197	0.110	0.198	0.001	1.00	1.03	0.76	1.02	1.02
		Left Cheek	0.315	0.361	0.352	0.171	0.382	0.197	0.299	0.198	0.047	1.03	1.11	1.02	1.04	1.05
		Left Tilted	0.234	0.160	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.75	0.78	0.55	0.76	0.76
Ant1 (B5,12, 13,14)	Ant4 (n77)	Right Cheek	0.522	0.175	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.05	1.08	0.82	1.07	1.07
		Right Tilted	0.374	0.108	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.83	0.87	0.59	0.85	0.85
		Left Cheek	0.330	0.492	0.352	0.171	0.382	0.197	0.299	0.198	0.047	1.17	1.25	1.17	1.19	1.19
		Left Tilted	0.236	0.263	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.85	0.88	0.66	0.87	0.87
Ant0 (B2,7,30,66)	Ant1 (n5,12,71)	Right Cheek	0.114	0.535	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.00	1.03	0.77	1.02	1.02
		Right Tilted	0.075	0.333	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.76	0.79	0.52	0.78	0.78
		Left Cheek	0.135	0.273	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.76	0.84	0.75	0.78	0.78
		Left Tilted	0.074	0.187	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.61	0.64	0.42	0.63	0.63
Ant0 (B2,25,66)	Ant2 (n41)	Right Cheek	0.107	0.439	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.90	0.93	0.67	0.91	0.92
		Right Tilted	0.075	0.307	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.73	0.77	0.49	0.75	0.75
		Left Cheek	0.135	0.374	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.86	0.94	0.86	0.88	0.88
		Left Tilted	0.074	0.357	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.78	0.81	0.59	0.80	0.80
Ant0 (B2,4,7, 25,30,66, 38,41)	Ant4 (n77,78)	Right Cheek	0.114	0.175	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.64	0.67	0.41	0.66	0.66
		Right Tilted	0.075	0.108	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.54	0.57	0.29	0.55	0.55
		Left Cheek	0.135	0.492	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.98	1.06	0.97	1.00	1.00
		Left Tilted	0.074	0.263	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.69	0.72	0.50	0.71	0.71
Ant0 (B2,7,30, 66)	Ant5 (n2,25, 66)	Right Cheek	0.114	0.402	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.87	0.90	0.64	0.88	0.89
		Right Tilted	0.075	0.457	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.88	0.92	0.64	0.90	0.90
		Left Cheek	0.135	0.456	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.94	1.02	0.94	0.96	0.96
		Left Tilted	0.074	0.447	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.87	0.90	0.68	0.89	0.89
Ant2 (B7,30)	Ant0 (n2,66)	Right Cheek	0.510	0.089	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.95	0.98	0.72	0.97	0.97
		Right Tilted	0.210	0.062	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.62	0.66	0.38	0.64	0.64

		Left Cheek	0.297	0.122	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.77	0.85	0.77	0.79	0.79
		Left Tilted	0.237	0.053	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.64	0.67	0.45	0.66	0.66
Ant2 (B48)	Ant1 (n5)	Right Cheek	0.553	0.535	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.44	1.47	1.21	1.46	1.46
		Right Tilted	0.367	0.275	0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.99	1.03	0.75	1.01	1.01
		Left Cheek	0.256	0.231	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.84	0.92	0.83	0.86	0.86
		Left Tilted	0.202	0.143	0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.70	0.73	0.50	0.71	0.71
Ant2 (B48)	Ant5 (n66)	Right Cheek	0.553	0.402	0.352	0.171	0.382	0.197	0.119	0.198	0.001	1.31	1.34	1.08	1.32	1.32
		Right Tilted	0.367	0.457	0.352	0.171	0.382	0.197	0.110	0.198	0.001	1.18	1.21	0.94	1.19	1.19
		Left Cheek	0.256	0.456	0.352	0.171	0.382	0.197	0.299	0.198	0.047	1.06	1.14	1.06	1.08	1.08
		Left Tilted	0.202	0.447	0.352	0.171	0.382	0.197	0.157	0.198	0.001	1.00	1.03	0.81	1.02	1.02
Ant5 (B2)	Ant0 (n66)	Right Cheek	0.373	0.089	0.352	0.171	0.382	0.197	0.119	0.198	0.001	0.81	0.85	0.58	0.83	0.83
		Right Tilted	0.396		0.352	0.171	0.382	0.197	0.110	0.198	0.001	0.75	0.78	0.51	0.76	0.77
		Left Cheek	0.473	0.111	0.352	0.171	0.382	0.197	0.299	0.198	0.047	0.94	1.01	0.93	0.95	0.95
		Left Tilted	0.387		0.352	0.171	0.382	0.197	0.157	0.198	0.001	0.74	0.77	0.55	0.76	0.76

16.2 Hotspot Exposure Conditions

Exposure Position	1	2	1+2
	WLAN5GHz Ant 6+7 Non DBS	Bluetooth Ant 6	Summed
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Front	0.138		0.14
Back	0.391	0.006	0.40
Left side	0.010		0.01
Right side	0.250	0.007	0.26
Top side	0.156		0.16
Bottom side			0.00

WWAN Band	Exposure Position	1	2	3	4	5	8	1+2	1+4+8	1+3+5	SPLSR
		WWAN	WLAN2.4GHz Ant 6+7 Non DBS	WLAN2.4GHz Ant 6+7 DBS	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	Bluetooth Ant 6	Summed	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
All Ant1	Front	0.735	0.388	0.162	0.391	0.199		1.12	1.13	1.10	
	Back	0.792	0.388	0.162	0.391	0.199	0.006	1.18	1.19	1.15	
	Left side	0.566	0.388	0.162	0.391	0.199		0.95	0.96	0.93	
	Right side	0.165	0.388	0.162	0.391	0.199	0.007	0.55	0.56	0.53	
	Top side	0.397	0.388	0.162	0.391	0.199		0.79	0.79	0.76	
	Bottom side							0.00	0.00	0.00	
All Ant2	Front	0.230	0.388	0.162	0.391	0.199		0.62	0.62	0.59	
	Back	0.556	0.388	0.162	0.391	0.199	0.006	0.94	0.95	0.92	
	Left side	0.505	0.388	0.162	0.391	0.199		0.89	0.90	0.87	
	Right side	0.057	0.388	0.162	0.391	0.199	0.007	0.45	0.46	0.42	
	Top side	0.217	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
	Bottom side							0.00	0.00	0.00	
All Ant3	Front	0.175	0.388	0.162	0.391	0.199		0.56	0.57	0.54	
	Back	0.534	0.388	0.162	0.391	0.199	0.006	0.92	0.93	0.90	
	Left side	0.357	0.388	0.162	0.391	0.199		0.75	0.75	0.72	
	Right side	0.059	0.388	0.162	0.391	0.199	0.007	0.45	0.46	0.42	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.344						0.34	0.34	0.34	
All Ant4	Front	0.215	0.388	0.162	0.391	0.199		0.60	0.61	0.58	
	Back	0.551	0.388	0.162	0.391	0.199	0.006	0.94	0.95	0.91	
	Left side	0.049	0.388	0.162	0.391	0.199		0.44	0.44	0.41	
	Right side	0.271	0.388	0.162	0.391	0.199	0.007	0.66	0.67	0.63	
	Top side	0.203	0.388	0.162	0.391	0.199		0.59	0.59	0.56	
	Bottom side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
All Ant5	Front	0.352	0.388	0.162	0.391	0.199		0.74	0.74	0.71	
	Back	0.470	0.388	0.162	0.391	0.199	0.006	0.86	0.87	0.83	
	Left side	0.117	0.388	0.162	0.391	0.199		0.51	0.51	0.48	
	Right side	0.129	0.388	0.162	0.391	0.199	0.007	0.52	0.53	0.49	
	Top side	0.505	0.388	0.162	0.391	0.199		0.89	0.90	0.87	
	Bottom side							0.00	0.00	0.00	
WCDMA IV Ant 0	Front	0.593	0.388	0.162	0.391	0.199		0.98	0.98	0.95	
	Back	1.061	0.388	0.162	0.391	0.199	0.006	1.45	1.46	1.42	
	Left side	0.151	0.388	0.162	0.391	0.199		0.54	0.54	0.51	
	Right side	0.107	0.388	0.162	0.391	0.199	0.007	0.50	0.51	0.47	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	1.083						1.08	1.08	1.08	
WCDMA II Ant 0	Front	0.593	0.388	0.162	0.391	0.199		0.98	0.98	0.95	
	Back	1.061	0.388	0.162	0.391	0.199	0.006	1.45	1.46	1.42	
	Left side	0.151	0.388	0.162	0.391	0.199		0.54	0.54	0.51	

	Right side	0.107	0.388	0.162	0.391	0.199	0.007	0.50	0.51	0.47	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	1.083						1.08	1.08	1.08	
LTE Band 66 Ant 0	Front	0.557	0.388	0.162	0.391	0.199		0.95	0.95	0.92	
	Back	1.164	0.388	0.162	0.391	0.199	0.006	1.55	1.56	1.53	
	Left side	0.130	0.388	0.162	0.391	0.199		0.52	0.52	0.49	
	Right side	0.119	0.388	0.162	0.391	0.199	0.007	0.51	0.52	0.48	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	1.050						1.05	1.05	1.05	
LTE Band 25 Ant 0	Front	0.460	0.388	0.162	0.391	0.199		0.85	0.85	0.82	
	Back	0.894	0.388	0.162	0.391	0.199	0.006	1.28	1.29	1.26	
	Left side	0.142	0.388	0.162	0.391	0.199		0.53	0.53	0.50	
	Right side	0.109	0.388	0.162	0.391	0.199	0.007	0.50	0.51	0.47	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.933						0.93	0.93	0.93	
LTE Band 30 Ant 0	Front	0.223	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
	Back	1.138	0.388	0.162	0.391	0.199	0.006	1.53	1.54	1.50	
	Left side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Right side	0.112	0.388	0.162	0.391	0.199	0.007	0.50	0.51	0.47	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.736						0.74	0.74	0.74	
LTE Band 7 Ant 0	Front	0.439	0.388	0.162	0.391	0.199		0.83	0.83	0.80	
	Back	0.787	0.388	0.162	0.391	0.199	0.006	1.18	1.18	1.15	
	Left side	0.152	0.388	0.162	0.391	0.199		0.54	0.54	0.51	
	Right side	0.145	0.388	0.162	0.391	0.199	0.007	0.53	0.54	0.51	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.708						0.71	0.71	0.71	
LTE Band 41 Ant 0	Front	0.292	0.388	0.162	0.391	0.199		0.68	0.68	0.65	
	Back	0.409	0.388	0.162	0.391	0.199	0.006	0.80	0.81	0.77	
	Left side	0.103	0.388	0.162	0.391	0.199		0.49	0.49	0.46	
	Right side	0.088	0.388	0.162	0.391	0.199	0.007	0.48	0.49	0.45	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.683						0.68	0.68	0.68	
FR1 n7 Ant 0	Front	0.389	0.388	0.162	0.391	0.199		0.78	0.78	0.75	
	Back	0.738	0.388	0.162	0.391	0.199	0.006	1.13	1.14	1.10	
	Left side	0.168	0.388	0.162	0.391	0.199		0.56	0.56	0.53	
	Right side	0.103	0.388	0.162	0.391	0.199	0.007	0.49	0.50	0.46	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.679						0.68	0.68	0.68	
FR1 n25 Ant 0	Front	0.388	0.388	0.162	0.391	0.199		0.78	0.78	0.75	
	Back	0.754	0.388	0.162	0.391	0.199	0.006	1.14	1.15	1.12	
	Left side	0.164	0.388	0.162	0.391	0.199		0.55	0.56	0.53	
	Right side	0.719	0.388	0.162	0.391	0.199	0.007	1.11	1.12	1.08	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	0.733						0.73	0.73	0.73	
FR1 n66 Ant 0	Front	0.491	0.388	0.162	0.391	0.199		0.88	0.88	0.85	
	Back	1.091	0.388	0.162	0.391	0.199	0.006	1.48	1.49	1.45	
	Left side	0.134	0.388	0.162	0.391	0.199		0.52	0.53	0.50	
	Right side	0.061	0.388	0.162	0.391	0.199	0.007	0.45	0.46	0.42	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	1.084						1.08	1.08	1.08	
FR1 n30 Ant 0	Front	0.279	0.388	0.162	0.391	0.199		0.67	0.67	0.64	
	Back	1.273	0.388	0.162	0.391	0.199	0.006	**1.66**	**1.67**	**1.63**	**1.2.3**
	Left side	0.044	0.388	0.162	0.391	0.199		0.43	0.44	0.41	
	Right side	0.082	0.388	0.162	0.391	0.199	0.007	0.47	0.48	0.44	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	

	Bottom side	0.857						0.86	0.86	0.86	
FR1 n41 HPUE Ant 0	Front	0.501	0.388	0.162	0.391	0.199		0.89	0.89	0.86	
	Back	0.853	0.388	0.162	0.391	0.199	0.006	1.24	1.25	1.21	
	Left side	0.325	0.388	0.162	0.391	0.199		0.71	0.72	0.69	
	Right side	0.029	0.388	0.162	0.391	0.199	0.007	0.42	0.43	0.39	
	Top side		0.388	0.162	0.391	0.199		0.39	0.39	0.36	
	Bottom side	1.102						1.10	1.10	1.10	

<UL CA>

WWAN Band		Exposure Position	1	2	3	4	5	6	9	1+2+3	1+2+5+9	1+2+4+6	SPLSR
			WWAN	WWAN	WLAN2.4GHz Ant 6+7 Non DBS	WLAN2.4GHz Ant 6+7 DBS	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	Bluetooth Ant 6	Summed	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 2 Ant 0	LTE Band 5 Ant 1	Front	0.460	0.263	0.388	0.162	0.391	0.199		1.11	1.11	1.08	
		Back	0.894	0.398	0.388	0.162	0.391	0.199	0.006	**1.68**	**1.69**	**1.65**	**4,5,6**
		Left side	0.142	0.103	0.388	0.162	0.391	0.199		0.63	0.64	0.61	
		Right side	0.109	0.088	0.388	0.162	0.391	0.199	0.007	0.59	0.60	0.56	
		Top side		0.272	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side	0.933		0.388	0.162	0.391	0.199		1.32	1.32	1.29	
LTE Band 2 Ant 0	LTE Band 12(17) Ant 1	Front	0.460	0.199	0.388	0.162	0.391	0.199		1.05	1.05	1.02	
		Back	0.894	0.226	0.388	0.162	0.391	0.199	0.006	1.51	1.52	1.48	
		Left side	0.142	0.216	0.388	0.162	0.391	0.199		0.75	0.75	0.72	
		Right side	0.109	0.140	0.388	0.162	0.391	0.199	0.007	0.64	0.65	0.61	
		Top side		0.158	0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side	0.933		0.388	0.162	0.391	0.199		1.32	1.32	1.29	
LTE Band 2 Ant 0	LTE Band 13 Ant 1	Front	0.460	0.224	0.388	0.162	0.391	0.199		1.07	1.08	1.05	
		Back	0.894	0.277	0.388	0.162	0.391	0.199	0.006	1.56	1.57	1.53	
		Left side	0.142	0.155	0.388	0.162	0.391	0.199		0.69	0.69	0.66	
		Right side	0.109	0.119	0.388	0.162	0.391	0.199	0.007	0.62	0.63	0.59	
		Top side		0.218	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side	0.933		0.388	0.162	0.391	0.199		1.32	1.32	1.29	
LTE Band 2 Ant 0	LTE Band 14 Ant 1	Front	0.460	0.192	0.388	0.162	0.391	0.199		1.04	1.04	1.01	
		Back	0.894	0.236	0.388	0.162	0.391	0.199	0.006	1.52	1.53	1.49	
		Left side	0.142	0.111	0.388	0.162	0.391	0.199		0.64	0.64	0.61	
		Right side	0.109	0.094	0.388	0.162	0.391	0.199	0.007	0.59	0.60	0.56	
		Top side		0.186	0.388	0.162	0.391	0.199		0.57	0.58	0.55	
		Bottom side	0.933		0.388	0.162	0.391	0.199		1.32	1.32	1.29	
LTE Band 4 Ant 0	LTE Band 5 Ant 1	Front	0.557	0.263	0.388	0.162	0.391	0.199		1.21	1.21	1.18	
		Back	1.164	0.398	0.388	0.162	0.391	0.199	0.006	**1.95**	**1.96**	**1.92**	**7,8,9**
		Left side	0.130	0.103	0.388	0.162	0.391	0.199		0.62	0.62	0.59	
		Right side	0.119	0.088	0.388	0.162	0.391	0.199	0.007	0.60	0.61	0.57	
		Top side		0.272	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side	1.050		0.388	0.162	0.391	0.199		1.44	1.44	1.41	
LTE Band 4 Ant 0	LTE Band 12(17) Ant 1	Front	0.557	0.199	0.388	0.162	0.391	0.199		1.14	1.15	1.12	
		Back	1.164	0.226	0.388	0.162	0.391	0.199	0.006	**1.78**	**1.79**	**1.75**	**10,11,12**
		Left side	0.130	0.216	0.388	0.162	0.391	0.199		0.73	0.74	0.71	
		Right side	0.119	0.140	0.388	0.162	0.391	0.199	0.007	0.65	0.66	0.62	
		Top side		0.158	0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side	1.050		0.388	0.162	0.391	0.199		1.44	1.44	1.41	
LTE Band 4 Ant 0	LTE Band 13 Ant 1	Front	0.557	0.224	0.388	0.162	0.391	0.199		1.17	1.17	1.14	
		Back	1.164	0.277	0.388	0.162	0.391	0.199	0.006	**1.83**	**1.84**	**1.80**	**13,14,15**
		Left side	0.130	0.155	0.388	0.162	0.391	0.199		0.67	0.68	0.65	
		Right side	0.119	0.119	0.388	0.162	0.391	0.199	0.007	0.63	0.64	0.60	
		Top side		0.218	0.388	0.162	0.391	0.199		0.61	0.61	0.58	

		Bottom side	1.050		0.388	0.162	0.391	0.199		1.44	1.44	1.41	
LTE Band 5 Ant 1	LTE Band 7 Ant 0	Front	0.263	0.439	0.388	0.162	0.391	0.199		1.09	1.09	1.06	
		Back	0.398	0.787	0.388	0.162	0.391	0.199	0.006	1.57	1.58	1.55	
		Left side	0.103	0.152	0.388	0.162	0.391	0.199		0.64	0.65	0.62	
		Right side	0.088	0.145	0.388	0.162	0.391	0.199	0.007	0.62	0.63	0.59	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		0.708	0.388	0.162	0.391	0.199		1.10	1.10	1.07	
LTE Band 5 Ant 1	LTE Band 30 Ant 0	Front	0.263	0.223	0.388	0.162	0.391	0.199		0.87	0.88	0.85	
		Back	0.398	1.138	0.388	0.162	0.391	0.199	0.006	**1.92**	**1.93**	**1.90**	**16,17,18**
		Left side	0.103		0.388	0.162	0.391	0.199		0.49	0.49	0.46	
		Right side	0.088	0.112	0.388	0.162	0.391	0.199	0.007	0.59	0.60	0.56	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		0.736	0.388	0.162	0.391	0.199		1.12	1.13	1.10	
LTE Band 5 Ant 1	LTE Band 66 Ant 0	Front	0.263	0.557	0.388	0.162	0.391	0.199		1.21	1.21	1.18	
		Back	0.398	1.164	0.388	0.162	0.391	0.199	0.006	**1.95**	**1.96**	**1.92**	**19,20,21**
		Left side	0.103	0.130	0.388	0.162	0.391	0.199		0.62	0.62	0.59	
		Right side	0.088	0.119	0.388	0.162	0.391	0.199	0.007	0.60	0.61	0.57	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		1.050	0.388	0.162	0.391	0.199		1.44	1.44	1.41	
LTE Band 12 Ant 1	LTE Band 30 Ant 0	Front	0.199	0.223	0.388	0.162	0.391	0.199		0.81	0.81	0.78	
		Back	0.226	1.138	0.388	0.162	0.391	0.199	0.006	**1.75**	**1.76**	**1.73**	**22,23,24**
		Left side	0.216		0.388	0.162	0.391	0.199		0.60	0.61	0.58	
		Right side	0.140	0.112	0.388	0.162	0.391	0.199	0.007	0.64	0.65	0.61	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		0.736	0.388	0.162	0.391	0.199		1.12	1.13	1.10	
LTE Band 12 Ant 1	LTE Band 66 Ant 0	Front	0.199	0.557	0.388	0.162	0.391	0.199		1.14	1.15	1.12	
		Back	0.226	1.164	0.388	0.162	0.391	0.199	0.006	**1.78**	**1.79**	**1.75**	**25,26,27**
		Left side	0.216	0.130	0.388	0.162	0.391	0.199		0.73	0.74	0.71	
		Right side	0.140	0.119	0.388	0.162	0.391	0.199	0.007	0.65	0.66	0.62	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		1.050	0.388	0.162	0.391	0.199		1.44	1.44	1.41	
LTE Band 13 Ant 1	LTE Band 66 Ant 0	Front	0.224	0.557	0.388	0.162	0.391	0.199		1.17	1.17	1.14	
		Back	0.277	1.164	0.388	0.162	0.391	0.199	0.006	**1.83**	**1.84**	**1.80**	**28,29,30**
		Left side	0.155	0.130	0.388	0.162	0.391	0.199		0.67	0.68	0.65	
		Right side	0.119	0.119	0.388	0.162	0.391	0.199	0.007	0.63	0.64	0.60	
		Top side	0.218		0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side		1.050	0.388	0.162	0.391	0.199		1.44	1.44	1.41	
LTE Band 14 Ant 1	LTE Band 30 Ant 0	Front	0.192	0.223	0.388	0.162	0.391	0.199		0.80	0.81	0.78	
		Back	0.236	1.138	0.388	0.162	0.391	0.199	0.006	**1.76**	**1.77**	**1.74**	**31,32,33**
		Left side	0.111		0.388	0.162	0.391	0.199		0.50	0.50	0.47	
		Right side	0.094	0.112	0.388	0.162	0.391	0.199	0.007	0.59	0.60	0.57	
		Top side	0.186		0.388	0.162	0.391	0.199		0.57	0.58	0.55	
		Bottom side		0.736	0.388	0.162	0.391	0.199		1.12	1.13	1.10	
LTE Band 14 Ant 1	LTE Band 66 Ant 0	Front	0.192	0.557	0.388	0.162	0.391	0.199		1.14	1.14	1.11	
		Back	0.236	1.164	0.388	0.162	0.391	0.199	0.006	**1.79**	**1.80**	**1.76**	**34,35,36**
		Left side	0.111	0.130	0.388	0.162	0.391	0.199		0.63	0.63	0.60	
		Right side	0.094	0.119	0.388	0.162	0.391	0.199	0.007	0.60	0.61	0.57	
		Top side	0.186		0.388	0.162	0.391	0.199		0.57	0.58	0.55	
		Bottom side		1.050	0.388	0.162	0.391	0.199		1.44	1.44	1.41	

<EN-DC>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	9	1+2+3	1+2+5+9	1+2+4+6	SPLSR
			WWAN	FR1	WLAN2.4GHz Ant 6+7 Non DBS	WLAN2.4GHz Ant 6+7 DBS	WLAN5GHz Ant 6+7 Non DBS	WLAN5GHz Ant 6+7 DBS	Bluetooth Ant 6	Summed	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 13 Ant 1	FR1 n66 Ant 0	Front	0.224	0.491	0.388	0.162	0.391	0.199		1.10	1.11	1.08	
		Back	0.277	1.091	0.388	0.162	0.391	0.199	0.006	**1.76**	**1.77**	**1.73**	**37,38,39**
		Left side	0.155	0.134	0.388	0.162	0.391	0.199		0.68	0.68	0.65	
		Right side	0.119	0.061	0.388	0.162	0.391	0.199	0.007	0.57	0.58	0.54	
		Top side	0.218		0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 5 Ant 1	FR1 n2 Ant 0	Front	0.263	0.388	0.388	0.162	0.391	0.199		1.04	1.04	1.01	
		Back	0.398	0.754	0.388	0.162	0.391	0.199	0.006	1.54	1.55	1.51	
		Left side	0.103	0.164	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Right side	0.088	0.719	0.388	0.162	0.391	0.199	0.007	1.20	1.21	1.17	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 14 Ant 1	FR1 n2 Ant 0	Front	0.192	0.388	0.388	0.162	0.391	0.199		0.97	0.97	0.94	
		Back	0.236	0.754	0.388	0.162	0.391	0.199	0.006	1.38	1.39	1.35	
		Left side	0.111	0.164	0.388	0.162	0.391	0.199		0.66	0.67	0.64	
		Right side	0.094	0.719	0.388	0.162	0.391	0.199	0.007	1.20	1.21	1.17	
		Top side	0.186		0.388	0.162	0.391	0.199		0.57	0.58	0.55	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 30 Ant 0	FR1 n2 Ant 5	Front	0.223	0.263	0.388	0.162	0.391	0.199		0.87	0.88	0.85	
		Back	1.138	0.470	0.388	0.162	0.391	0.199	0.006	**2.00**	**2.01**	**1.97**	**40,41,42**
		Left side		0.047	0.388	0.162	0.391	0.199		0.44	0.44	0.41	
		Right side	0.112	0.062	0.388	0.162	0.391	0.199	0.007	0.56	0.57	0.54	
		Top side		0.505	0.388	0.162	0.391	0.199		0.89	0.90	0.87	
		Bottom side	0.736							0.74	0.74	0.74	
LTE Band 30 Ant 2	FR1 n2 Ant 0	Front	0.152	0.388	0.388	0.162	0.391	0.199		0.93	0.93	0.90	
		Back	0.182	0.754	0.388	0.162	0.391	0.199	0.006	1.32	1.33	1.30	
		Left side	0.231	0.164	0.388	0.162	0.391	0.199		0.78	0.79	0.76	
		Right side	0.019	0.719	0.388	0.162	0.391	0.199	0.007	1.13	1.14	1.10	
		Top side	0.016		0.388	0.162	0.391	0.199		0.40	0.41	0.38	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 2 Ant 0	FR1 n5 Ant 1	Front	0.460	0.246	0.388	0.162	0.391	0.199		1.09	1.10	1.07	
		Back	0.894	0.360	0.388	0.162	0.391	0.199	0.006	**1.64**	**1.65**	**1.62**	**43,44,45**
		Left side	0.142	0.156	0.388	0.162	0.391	0.199		0.69	0.69	0.66	
		Right side	0.109	0.082	0.388	0.162	0.391	0.199	0.007	0.58	0.59	0.55	
		Top side		0.267	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 30 Ant 0	FR1 n5 Ant 1	Front	0.223	0.246	0.388	0.162	0.391	0.199		0.86	0.86	0.83	
		Back	1.138	0.360	0.388	0.162	0.391	0.199	0.006	**1.89**	**1.90**	**1.86**	**46,47,48**
		Left side		0.156	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Right side	0.112	0.082	0.388	0.162	0.391	0.199	0.007	0.58	0.59	0.56	
		Top side		0.267	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side	0.736							0.74	0.74	0.74	
LTE Band 66 Ant 0	FR1 n5 Ant 1	Front	0.557	0.246	0.388	0.162	0.391	0.199		1.19	1.19	1.16	
		Back	1.164	0.360	0.388	0.162	0.391	0.199	0.006	**1.91**	**1.92**	**1.89**	**49,50,51**
		Left side	0.130	0.156	0.388	0.162	0.391	0.199		0.67	0.68	0.65	
		Right side	0.119	0.082	0.388	0.162	0.391	0.199	0.007	0.59	0.60	0.56	
		Top side		0.267	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side	1.050							1.05	1.05	1.05	
LTE Band 2 Ant 0	FR1 n12 Ant 1	Front	0.460	0.140	0.388	0.162	0.391	0.199		0.99	0.99	0.96	

		Back	0.894	0.174	0.388	0.162	0.391	0.199	0.006	1.46	1.47	1.43	
		Left side	0.142	0.104	0.388	0.162	0.391	0.199		0.63	0.64	0.61	
		Right side	0.109	0.059	0.388	0.162	0.391	0.199	0.007	0.56	0.57	0.53	
		Top side		0.124	0.388	0.162	0.391	0.199		0.51	0.52	0.49	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 14 Ant 1	FR1 n30 Ant 0	Front	0.192	0.279	0.388	0.162	0.391	0.199		0.86	0.86	0.83	
		Back	0.236	1.273	0.388	0.162	0.391	0.199	0.006	**1.90**	**1.91**	**1.87**	**52,53,54**
		Left side	0.111	0.044	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Right side	0.094	0.082	0.388	0.162	0.391	0.199	0.007	0.56	0.57	0.54	
		Top side	0.186		0.388	0.162	0.391	0.199		0.57	0.58	0.55	
		Bottom side		0.857						0.86	0.86	0.86	
LTE Band 2 Ant 0	FR1 n66 Ant 5	Front	0.460	0.329	0.388	0.162	0.391	0.199		1.18	1.18	1.15	
		Back	0.894	0.394	0.388	0.162	0.391	0.199	0.006	**1.68**	**1.69**	**1.65**	**55,56,57**
		Left side	0.142	0.066	0.388	0.162	0.391	0.199		0.60	0.60	0.57	
		Right side	0.109	0.050	0.388	0.162	0.391	0.199	0.007	0.55	0.56	0.52	
		Top side		0.481	0.388	0.162	0.391	0.199		0.87	0.87	0.84	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 2 Ant 5	FR1 n66 Ant 0	Front	0.286	0.491	0.388	0.162	0.391	0.199		1.17	1.17	1.14	
		Back	0.376	1.091	0.388	0.162	0.391	0.199	0.006	**1.86**	**1.86**	**1.83**	**58,59,60**
		Left side	0.064	0.134	0.388	0.162	0.391	0.199		0.59	0.59	0.56	
		Right side	0.084	0.061	0.388	0.162	0.391	0.199	0.007	0.53	0.54	0.51	
		Top side	0.486		0.388	0.162	0.391	0.199		0.87	0.88	0.85	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 5 Ant 1	FR1 n66 Ant 0	Front	0.263	0.491	0.388	0.162	0.391	0.199		1.14	1.15	1.12	
		Back	0.398	1.091	0.388	0.162	0.391	0.199	0.006	**1.88**	**1.89**	**1.85**	**61,62,63**
		Left side	0.103	0.134	0.388	0.162	0.391	0.199		0.63	0.63	0.60	
		Right side	0.088	0.061	0.388	0.162	0.391	0.199	0.007	0.54	0.55	0.51	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 12 Ant 1	FR1 n66 Ant 0	Front	0.199	0.491	0.388	0.162	0.391	0.199		1.08	1.08	1.05	
		Back	0.226	1.091	0.388	0.162	0.391	0.199	0.006	**1.71**	**1.71**	**1.68**	**64,65,66**
		Left side	0.216	0.134	0.388	0.162	0.391	0.199		0.74	0.74	0.71	
		Right side	0.140	0.061	0.388	0.162	0.391	0.199	0.007	0.59	0.60	0.56	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 14 Ant 1	FR1 n66 Ant 0	Front	0.192	0.491	0.388	0.162	0.391	0.199		1.07	1.07	1.04	
		Back	0.236	1.091	0.388	0.162	0.391	0.199	0.006	**1.72**	**1.72**	**1.69**	**67,68,69**
		Left side	0.111	0.134	0.388	0.162	0.391	0.199		0.63	0.64	0.61	
		Right side	0.094	0.061	0.388	0.162	0.391	0.199	0.007	0.54	0.55	0.52	
		Top side	0.186		0.388	0.162	0.391	0.199		0.57	0.58	0.55	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 30 Ant 0	FR1 n66 Ant 5	Front	0.223	0.329	0.388	0.162	0.391	0.199		0.94	0.94	0.91	
		Back	1.138	0.394	0.388	0.162	0.391	0.199	0.006	**1.92**	**1.93**	**1.89**	**70,71,72**
		Left side		0.066	0.388	0.162	0.391	0.199		0.45	0.46	0.43	
		Right side	0.112	0.050	0.388	0.162	0.391	0.199	0.007	0.55	0.56	0.52	
		Top side		0.481	0.388	0.162	0.391	0.199		0.87	0.87	0.84	
		Bottom side	0.736							0.74	0.74	0.74	
LTE Band 30 Ant 2	FR1 n66 Ant 0	Front	0.152	0.491	0.388	0.162	0.391	0.199		1.03	1.03	1.00	
		Back	0.182	1.091	0.388	0.162	0.391	0.199	0.006	**1.66**	**1.67**	**1.63**	**73,74,75**
		Left side	0.231	0.134	0.388	0.162	0.391	0.199		0.75	0.76	0.73	
		Right side	0.019	0.061	0.388	0.162	0.391	0.199	0.007	0.47	0.48	0.44	
		Top side	0.016		0.388	0.162	0.391	0.199		0.40	0.41	0.38	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 12 Ant 1	FR1 n2 Ant 0	Front	0.199	0.388	0.388	0.162	0.391	0.199		0.98	0.98	0.95	
		Back	0.226	0.754	0.388	0.162	0.391	0.199	0.006	1.37	1.38	1.34	
		Left side	0.216	0.164	0.388	0.162	0.391	0.199		0.77	0.77	0.74	

		Right side	0.140	0.719	0.388	0.162	0.391	0.199	0.007	1.25	1.26	1.22	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 66 Ant 1	FR1 n2 Ant 0	Front	0.159	0.388	0.388	0.162	0.391	0.199		0.94	0.94	0.91	
		Back	0.183	0.754	0.388	0.162	0.391	0.199	0.006	1.33	1.33	1.30	
		Left side	0.083	0.164	0.388	0.162	0.391	0.199		0.64	0.64	0.61	
		Right side		0.719	0.388	0.162	0.391	0.199	0.007	1.11	1.12	1.08	
		Top side	0.234		0.388	0.162	0.391	0.199		0.62	0.63	0.60	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 2 Ant 0	FR1 n41 Ant 2	Front	0.460	0.230	0.388	0.162	0.391	0.199		1.08	1.08	1.05	
		Back	0.894	0.330	0.388	0.162	0.391	0.199	0.006	**1.61**	**1.62**	1.59	**76,77**
		Left side	0.142	0.505	0.388	0.162	0.391	0.199		1.04	1.04	1.01	
		Right side	0.109	0.057	0.388	0.162	0.391	0.199	0.007	0.55	0.56	0.53	
		Top side		0.217	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 71 Ant 1	FR1 n66 Ant 0	Front	0.225	0.491	0.388	0.162	0.391	0.199		1.10	1.11	1.08	
		Back	0.282	1.091	0.388	0.162	0.391	0.199	0.006	**1.76**	**1.77**	**1.73**	**78,79,80**
		Left side	0.281	0.134	0.388	0.162	0.391	0.199		0.80	0.81	0.78	
		Right side	0.165	0.061	0.388	0.162	0.391	0.199	0.007	0.61	0.62	0.59	
		Top side	0.150		0.388	0.162	0.391	0.199		0.54	0.54	0.51	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 2 Ant 0	FR1 n71 Ant 1	Front	0.460	0.178	0.388	0.162	0.391	0.199		1.03	1.03	1.00	
		Back	0.894	0.217	0.388	0.162	0.391	0.199	0.006	1.50	1.51	1.47	
		Left side	0.142	0.208	0.388	0.162	0.391	0.199		0.74	0.74	0.71	
		Right side	0.109	0.122	0.388	0.162	0.391	0.199	0.007	0.62	0.63	0.59	
		Top side		0.121	0.388	0.162	0.391	0.199		0.51	0.51	0.48	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 66 Ant 0	FR1 n71 Ant 1	Front	0.557	0.178	0.388	0.162	0.391	0.199		1.12	1.13	1.10	
		Back	1.164	0.217	0.388	0.162	0.391	0.199	0.006	**1.77**	**1.78**	**1.74**	**81,82,83**
		Left side	0.130	0.208	0.388	0.162	0.391	0.199		0.73	0.73	0.70	
		Right side	0.119	0.122	0.388	0.162	0.391	0.199	0.007	0.63	0.64	0.60	
		Top side		0.121	0.388	0.162	0.391	0.199		0.51	0.51	0.48	
		Bottom side	1.050							1.05	1.05	1.05	
LTE Band 66 Ant 0	FR1 n41 Ant 2	Front	0.557	0.230	0.388	0.162	0.391	0.199		1.18	1.18	1.15	
		Back	1.164	0.330	0.388	0.162	0.391	0.199	0.006	**1.88**	**1.89**	**1.86**	**84,85,86**
		Left side	0.130	0.505	0.388	0.162	0.391	0.199		1.02	1.03	1.00	
		Right side	0.119	0.057	0.388	0.162	0.391	0.199	0.007	0.56	0.57	0.54	
		Top side		0.217	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side	1.050							1.05	1.05	1.05	
LTE Band 25 Ant 0	FR1 n41 Ant 2	Front	0.460	0.230	0.388	0.162	0.391	0.199		1.08	1.08	1.05	
		Back	0.894	0.330	0.388	0.162	0.391	0.199	0.006	**1.61**	**1.62**	1.59	**87,88**
		Left side	0.142	0.505	0.388	0.162	0.391	0.199		1.04	1.04	1.01	
		Right side	0.109	0.057	0.388	0.162	0.391	0.199	0.007	0.55	0.56	0.53	
		Top side		0.217	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 26 Ant 1	FR1 n41 Ant 0	Front	0.263	0.501	0.388	0.162	0.391	0.199		1.15	1.16	1.13	
		Back	0.398	0.853	0.388	0.162	0.391	0.199	0.006	**1.64**	**1.65**	**1.61**	**89,90,91**
		Left side	0.103	0.325	0.388	0.162	0.391	0.199		0.82	0.82	0.79	
		Right side	0.088	0.029	0.388	0.162	0.391	0.199	0.007	0.51	0.52	0.48	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		1.102						1.10	1.10	1.10	
LTE Band 38 Ant 0	FR1 n78 Ant 4	Front	0.292	0.207	0.388	0.162	0.391	0.199		0.89	0.89	0.86	
		Back	0.409	0.342	0.388	0.162	0.391	0.199	0.006	1.14	1.15	1.11	
		Left side	0.103	0.028	0.388	0.162	0.391	0.199		0.52	0.52	0.49	
		Right side	0.088	0.197	0.388	0.162	0.391	0.199	0.007	0.67	0.68	0.65	
		Top side		0.154	0.388	0.162	0.391	0.199		0.54	0.55	0.52	

		Bottom side	0.683							0.68	0.68	0.68	
LTE Band 5 Ant 1	FR1 n78 Ant 2	Front	0.263	0.075	0.388	0.162	0.391	0.199		0.73	0.73	0.70	
		Back	0.398	0.496	0.388	0.162	0.391	0.199	0.006	1.28	1.29	1.26	
		Left side	0.103	0.359	0.388	0.162	0.391	0.199		0.85	0.85	0.82	
		Right side	0.088	0.020	0.388	0.162	0.391	0.199	0.007	0.50	0.51	0.47	
		Top side	0.272	0.110	0.388	0.162	0.391	0.199		0.77	0.77	0.74	
		Bottom side								0.00	0.00	0.00	
LTE Band 66 Ant 0	FR1 n78 Ant 4	Front	0.557	0.207	0.388	0.162	0.391	0.199		1.15	1.16	1.13	
		Back	1.164	0.342	0.388	0.162	0.391	0.199	0.006	**1.89**	**1.90**	**1.87**	**92,93,94**
		Left side	0.130	0.028	0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Right side	0.119	0.197	0.388	0.162	0.391	0.199	0.007	0.70	0.71	0.68	
		Top side		0.154	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Bottom side	1.050							1.05	1.05	1.05	
LTE Band 2 Ant 0	FR1 n78 Ant 4	Front	0.460	0.207	0.388	0.162	0.391	0.199		1.06	1.06	1.03	
		Back	0.894	0.342	0.388	0.162	0.391	0.199	0.006	**1.62**	**1.63**	**1.60**	**95,96,97**
		Left side	0.142	0.028	0.388	0.162	0.391	0.199		0.56	0.56	0.53	
		Right side	0.109	0.197	0.388	0.162	0.391	0.199	0.007	0.69	0.70	0.67	
		Top side		0.154	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Bottom side	0.933							0.93	0.93	0.93	
LTE Band 7 Ant 0	FR1 n71 Ant 1	Front	0.439	0.178	0.388	0.162	0.391	0.199		1.01	1.01	0.98	
		Back	0.787	0.217	0.388	0.162	0.391	0.199	0.006	1.39	1.40	1.37	
		Left side	0.152	0.208	0.388	0.162	0.391	0.199		0.75	0.75	0.72	
		Right side	0.145	0.122	0.388	0.162	0.391	0.199	0.007	0.66	0.67	0.63	
		Top side		0.121	0.388	0.162	0.391	0.199		0.51	0.51	0.48	
		Bottom side	0.708							0.71	0.71	0.71	
LTE Band 12 Ant 1	FR1 n78 Ant 2	Front	0.199	0.075	0.388	0.162	0.391	0.199		0.66	0.67	0.64	
		Back	0.226	0.496	0.388	0.162	0.391	0.199	0.006	1.11	1.12	1.08	
		Left side	0.216	0.359	0.388	0.162	0.391	0.199		0.96	0.97	0.94	
		Right side	0.140	0.020	0.388	0.162	0.391	0.199	0.007	0.55	0.56	0.52	
		Top side	0.158	0.110	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side								0.00	0.00	0.00	
LTE Band 5 Ant 1	FR1 n7 Ant 0	Front	0.263	0.389	0.388	0.162	0.391	0.199		1.04	1.04	1.01	
		Back	0.398	0.738	0.388	0.162	0.391	0.199	0.006	1.52	1.53	1.50	
		Left side	0.103	0.168	0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Right side	0.088	0.103	0.388	0.162	0.391	0.199	0.007	0.58	0.59	0.55	
		Top side	0.272		0.388	0.162	0.391	0.199		0.66	0.66	0.63	
		Bottom side		0.679						0.68	0.68	0.68	
LTE Band 12 Ant 1	FR1 n7 Ant 0	Front	0.199	0.389	0.388	0.162	0.391	0.199		0.98	0.98	0.95	
		Back	0.226	0.738	0.388	0.162	0.391	0.199	0.006	1.35	1.36	1.33	
		Left side	0.216	0.168	0.388	0.162	0.391	0.199		0.77	0.78	0.75	
		Right side	0.140	0.103	0.388	0.162	0.391	0.199	0.007	0.63	0.64	0.60	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		0.679						0.68	0.68	0.68	
LTE Band 13 Ant 1	FR1 n2 Ant 0	Front	0.224	0.388	0.388	0.162	0.391	0.199		1.00	1.00	0.97	
		Back	0.277	0.754	0.388	0.162	0.391	0.199	0.006	1.42	1.43	1.39	
		Left side	0.155	0.164	0.388	0.162	0.391	0.199		0.71	0.71	0.68	
		Right side	0.119	0.719	0.388	0.162	0.391	0.199	0.007	1.23	1.24	1.20	
		Top side	0.218		0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 48 Ant 2	FR1 n5 Ant 1	Front	0.067	0.246	0.388	0.162	0.391	0.199		0.70	0.70	0.67	
		Back	0.528	0.360	0.388	0.162	0.391	0.199	0.006	1.28	1.29	1.25	
		Left side	0.360	0.156	0.388	0.162	0.391	0.199		0.90	0.91	0.88	
		Right side		0.082	0.388	0.162	0.391	0.199	0.007	0.47	0.48	0.44	
		Top side	0.124	0.267	0.388	0.162	0.391	0.199		0.78	0.78	0.75	
		Bottom side								0.00	0.00	0.00	
LTE Band 48 Ant 2	FR1 n66 Ant 5	Front	0.067	0.329	0.388	0.162	0.391	0.199		0.78	0.79	0.76	

		Back	0.528	0.394	0.388	0.162	0.391	0.199	0.006	1.31	1.32	1.28	
		Left side	0.360	0.066	0.388	0.162	0.391	0.199		0.81	0.82	0.79	
		Right side		0.050	0.388	0.162	0.391	0.199	0.007	0.44	0.45	0.41	
		Top side	0.124	0.481	0.388	0.162	0.391	0.199		0.99	1.00	0.97	
		Bottom side								0.00	0.00	0.00	
LTE Band 7 Ant 0	FR1 n66 Ant 5	Front	0.439	0.329	0.388	0.162	0.391	0.199		1.16	1.16	1.13	
		Back	0.787	0.394	0.388	0.162	0.391	0.199	0.006	1.57	1.58	1.54	
		Left side	0.152	0.066	0.388	0.162	0.391	0.199		0.61	0.61	0.58	
		Right side	0.145	0.050	0.388	0.162	0.391	0.199	0.007	0.58	0.59	0.56	
		Top side		0.481	0.388	0.162	0.391	0.199		0.87	0.87	0.84	
		Bottom side	0.708							0.71	0.71	0.71	
LTE Band 7 Ant 2	FR1 n66 Ant 0	Front	0.157	0.491	0.388	0.162	0.391	0.199		1.04	1.04	1.01	
		Back	0.328	1.091	0.388	0.162	0.391	0.199	0.006	**1.81**	**1.82**	**1.78**	**98,99,100**
		Left side	0.437	0.134	0.388	0.162	0.391	0.199		0.96	0.96	0.93	
		Right side		0.061	0.388	0.162	0.391	0.199	0.007	0.45	0.46	0.42	
		Top side	0.079		0.388	0.162	0.391	0.199		0.47	0.47	0.44	
		Bottom side		1.084						1.08	1.08	1.08	
LTE Band 41 Ant 0	FR1 n77 Ant 4	Front	0.292	0.207	0.388	0.162	0.391	0.199		0.89	0.89	0.86	
		Back	0.409	0.342	0.388	0.162	0.391	0.199	0.006	1.14	1.15	1.11	
		Left side	0.103	0.028	0.388	0.162	0.391	0.199		0.52	0.52	0.49	
		Right side	0.088	0.197	0.388	0.162	0.391	0.199	0.007	0.67	0.68	0.65	
		Top side		0.154	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Bottom side	0.683							0.68	0.68	0.68	
LTE Band 12 Ant 1	FR1 n38 Ant 0	Front	0.199	0.501	0.388	0.162	0.391	0.199		1.09	1.09	1.06	
		Back	0.226	0.853	0.388	0.162	0.391	0.199	0.006	1.47	1.48	1.44	
		Left side	0.216	0.325	0.388	0.162	0.391	0.199		0.93	0.93	0.90	
		Right side	0.140	0.029	0.388	0.162	0.391	0.199	0.007	0.56	0.57	0.53	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		1.102						1.10	1.10	1.10	
LTE Band 4 Ant 0	FR1 n78 Ant 4	Front	0.557	0.207	0.388	0.162	0.391	0.199		1.15	1.16	1.13	
		Back	1.164	0.342	0.388	0.162	0.391	0.199	0.006	**1.89**	**1.90**	**1.87**	**101,102,103**
		Left side	0.130	0.028	0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Right side	0.119	0.197	0.388	0.162	0.391	0.199	0.007	0.70	0.71	0.68	
		Top side		0.154	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Bottom side	1.050							1.05	1.05	1.05	
LTE Band 12 Ant 1	FR1 n25 Ant 0	Front	0.199	0.388	0.388	0.162	0.391	0.199		0.98	0.98	0.95	
		Back	0.226	0.754	0.388	0.162	0.391	0.199	0.006	1.37	1.38	1.34	
		Left side	0.216	0.164	0.388	0.162	0.391	0.199		0.77	0.77	0.74	
		Right side	0.140	0.719	0.388	0.162	0.391	0.199	0.007	1.25	1.26	1.22	
		Top side	0.158		0.388	0.162	0.391	0.199		0.55	0.55	0.52	
		Bottom side		0.733						0.73	0.73	0.73	
LTE Band 7 Ant 0	FR1 n77 Ant 4	Front	0.439	0.207	0.388	0.162	0.391	0.199		1.03	1.04	1.01	
		Back	0.787	0.342	0.388	0.162	0.391	0.199	0.006	1.52	1.53	1.49	
		Left side	0.152	0.028	0.388	0.162	0.391	0.199		0.57	0.57	0.54	
		Right side	0.145	0.197	0.388	0.162	0.391	0.199	0.007	0.73	0.74	0.70	
		Top side		0.154	0.388	0.162	0.391	0.199		0.54	0.55	0.52	
		Bottom side	0.708							0.71	0.71	0.71	
LTE Band 71 Ant 1	FR1 n78 Ant 2	Front	0.225	0.075	0.388	0.162	0.391	0.199		0.69	0.69	0.66	
		Back	0.282	0.496	0.388	0.162	0.391	0.199	0.006	1.17	1.18	1.14	
		Left side	0.281	0.359	0.388	0.162	0.391	0.199		1.03	1.03	1.00	
		Right side	0.165	0.020	0.388	0.162	0.391	0.199	0.007	0.57	0.58	0.55	
		Top side	0.150	0.110	0.388	0.162	0.391	0.199		0.65	0.65	0.62	
		Bottom side								0.00	0.00	0.00	
LTE Band 71 Ant 1	FR1 n38 Ant 0	Front	0.225	0.501	0.388	0.162	0.391	0.199		1.11	1.12	1.09	
		Back	0.282	0.853	0.388	0.162	0.391	0.199	0.006	1.52	1.53	1.50	
		Left side	0.281	0.325	0.388	0.162	0.391	0.199		0.99	1.00	0.97	