FCC SAR Test Report

APPLICANT	: Xiaomi Communications Co., Ltd.
EQUIPMENT	: Mobile Phone
BRAND NAME	: Xiaomi
MODEL NAME	: 23078PND5G
FCC ID	: 2AFZZND5G
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.

Si Zhang

Approved by: Si Zhang

ACCREDITED
Cert #5145.02

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

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA351205	Rev. 01	Initial issue of report.	Jun. 26, 2023
FA351205	Rev. 02	1. Updated the relevant data of LTE Band 66 at ant1/3 for head exposure condition. 2. Updated the relevant data of LTE Band 66 at ant3 for hotspot exposure condition. 3. Updated the relevant data of LTE Band 66 at ant1/3 for body-worn exposure condition. 4. Updated Simultaneous SAR analysis for above bands.	Jul. 26, 2023

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 23078PND5G,** are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.85	0.50	0.27	1.59
		GSM1900	0.98	0.65	0.30	
	WCDMA	WCDMA II	1.08	0.95	0.70	
		WCDMA IV	0.88	0.91	0.58	
		WCDMA V	0.91	0.51	0.28	
	LTE	LTE Band 2	0.51	0.52	0.53	
		LTE Band 4	0.51	0.48	0.53	
		LTE Band 7	0.51	0.55	0.49	
		LTE Band 12/17	0.79	0.33	0.18	
		LTE Band 13	0.92	0.62	0.32	
		LTE Band 25	0.98	1.02	0.69	
		LTE Band 26/5	1.00	0.53	0.27	
		LTE Band 66	0.69	0.70	0.50	
		LTE Band 41/38	1.06	0.69	0.36	
		LTE Band 42	1.07	0.98	**0.95**	
		LTE Band 48	1.07	**1.07**	0.44	
	5G NR	FR1 n5	0.94	0.52	0.25	
		FR1 n7	**1.09**	0.84	0.54	
		FR1 n66	0.90	0.79	0.54	
		FR1 n41/38	1.03	0.63	0.54	
		FR1 n77	1.04	1.02	0.83	
		FR1 n78	0.95	0.84	0.94	
DTS	WLAN	WLAN2.4GHz	1.01	0.55	0.43	1.59
NII		WLAN5GHz	1.01	0.91	0.33	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.68	0.19	<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	GSM	GSM1900	1.37	3.09
	LTE	LTE Band 41/38	1.86	
NII	WLAN	WLAN5GHz	**2.16**	3.09
Date of Testing:			2023/5/19 ~ 2023/7/24	

Remark:

1. This device supports LTE B5/B17/B38 and B26/B12/B41. Since the supported frequency span for LTE B5/B17/B38 falls completely within the supports frequency span for LTE B26/B12/B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B26/B12/B41.
2. This device supports 5GNR n38 and n41. Since the supported frequency span for 5GNR n38 falls completely within the supports frequency span for n41, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41.

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 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	SAR03-KS	CN1257	314309

Applicant	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer	
Company Name	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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 Phone
Brand Name	Xiaomi
Model Name	23078PND5G
FCC ID	2AFZZND5G
IMEI Code	IMEI 1: 861585060047766 IMEI 2: 861585060047774
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3400 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 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	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax/be HE20/HE40/EHT20/EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160

	WLAN 6GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	P2.0
SW Version	MIUI 14
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

Remark:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function.
4. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
6. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
7. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
8. For WLAN/BT when transmit simultaneous with WWAN, power reduction will be activated to head, Body, hotspot and extremity exposure conditions.
9. 5GNR n77/n78 supports HPUE mode, HPUE power and SAR testing performed separately.
10. 5GNR n77/n78 HPUE with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
11. For 5GNR n77/n78 HPUE, 5GNR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. The device support DBS (Dual Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz or WLAN 6GHz transmit at the same time the module will limit different output power for simultaneous transmission compliance.
18. There are four samples, sample 1 is 12+512G memory & CSOT Display Screen & glass back cover, sample 2 is 16+1T memory & CSOT Display Screen & glass back cover, sample 3 is 12+256G memory & Tianma Display Screen & glass back cover, sample 4 is 12+512G memory & CSOT Display Screen & PU back cover according to the difference, so chose sample 1 to perform full test.
19. This device has NFC function and the NFC SAR report will be separately submitted.
20. 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 WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8.
21. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40,45
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40,45
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	N77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

<table>
<tr><th colspan="2">Summarized necessary items addressed in KDB 941225 D05 v02r05</th></tr>
<tr><td>FCC ID</td><td>2AFZZND5G</td></tr>
<tr><td>Equipment Name</td><td>Mobile Phone</td></tr>
<tr><td>Operating Frequency Range of each LTE transmission band</td><td>LTE Band 2: 1850 MHz ~ 1910 MHz
LTE Band 4: 1710 MHz ~ 1755 MHz
LTE Band 5: 824 MHz ~ 849 MHz
LTE Band 7: 2500 MHz ~ 2570 MHz
LTE Band 12: 699 MHz ~ 716 MHz
LTE Band 13: 777 MHz ~ 787 MHz
LTE Band 17: 704 MHz ~ 716 MHz
LTE Band 25: 1850 MHz ~ 1915 MHz
LTE Band 26: 814 MHz ~ 849 MHz
LTE Band 38: 2570 MHz ~ 2620 MHz
LTE Band 41: 2496 MHz ~ 2690 MHz
LTE Band 42: 3400 MHz ~ 3550 MHz
LTE Band 48: 3550 MHz ~ 3700 MHz
LTE Band 66: 1710 MHz ~ 1780 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 17: 5MHz, 10MHz
LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 66:1.4MHz, 3MHz, 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, Cat18</td></tr>
<tr><td>CA Support</td><td>Supported, Uplink and Downlink</td></tr>
<tr><td>LTE MPR permanently built-in by design</td><td>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3
<table>
<tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr>
<tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr>
<tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr>
<tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr>
<tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr>
<tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr>
</table></td></tr>
<tr><td>LTE A-MPR</td><td>In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)</td></tr>
<tr><td>Spectrum plots for RB configuration</td><td>A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.</td></tr>
<tr><td>Power reduction applied to satisfy SAR compliance</td><td>Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body -worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 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>
<tr><td>LTE Carrier Aggregation Additional Information</td><td>1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance.
2. This device supports maximum of 3 carriers in the downlink and 2 carriers in the uplink.</td></tr>
</table>

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

LTE Band 2

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

LTE Band 4

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

LTE Band 5

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844

LTE Band 7

	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560

LTE Band 12

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711

LTE Band 13

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq.(MHz)
L	23205	779.5	23230	782
M	23230	782		
H	23255	784.5		

LTE Band 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 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 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 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 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

<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 17			Yes	Yes		
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes

2) LTE Bands tune up

Band	Antenna	Default	DSI-0	DSI-4	DSI-1	DSI-3
		Tune up Limit	Tune up Limit	Tune up Limit	Tune up Limit	Tune up Limit
LTE Band 2	ANT2	25.0	25.0	19.0	22.5	25.0
LTE Band 25		25.0	25.0	22.0	22.5	25.0
LTE Band 2	ANT4	24.5	20.5	20.5	24.5	24.5
LTE Band 25		24.5	24.5	24.5	24.5	24.5
LTE Band 4-Other PA	ANT1	25.5	17.0	17.0	25.0	25.5
LTE Band 66-Other PA		25.5	15.5	19.5	25.5	25.5
LTE Band 4-Other PA	ANT3	25.5	20.5	20.5	25.5	25.5
LTE Band 66-Other PA		25.5	18.0	24.0	25.5	25.5
LTE Band 4	ANT1	24.5	16.0	16.0	24.0	24.5
LTE Band 66		24.0	18.0	18.0	24.0	24.0
LTE Band 4	ANT2	25.7	25.7	20.7	23.2	25.7
LTE Band 66		24.5	24.5	21.5	21.5	24.5
LTE Band 4	ANT3	24.5	19.5	19.5	24.5	24.5
LTE Band 66		23.5	22.0	22.0	23.5	23.5
LTE Band 4	ANT4	25.5	25.5	25.5	25.5	25.5
LTE Band 66		24.5	24.5	24.5	24.5	24.5
LTE Band 5	ANT0	25.5	25.5	25.5	25.5	25.5
LTE Band 26		25.5	25.5	25.5	25.5	25.5
LTE Band 5	ANT1	25.5	24.0	24.0	25.5	25.5
LTE Band 26		25.5	24.0	24.0	25.5	25.5
LTE Band 12-Other PA	ANT0	25.5	25.5	25.5	25.5	25.5
LTE Band 17-Other PA		25.5	25.5	25.5	25.5	25.5
LTE Band 12-Other PA	ANT1	25.5	25.5	25.5	25.5	25.5
LTE Band 17-Other PA		25.5	25.5	25.5	25.5	25.5
LTE Band 38	ANT1	25.0	21.0	21.0	23.5	25.0
LTE Band 41		24.5	20.5	20.5	23.0	24.5
LTE Band 38	ANT2	25.5	25.5	23.5	23.5	25.5
LTE Band 41		25.5	25.5	23.5	23.5	25.5
LTE Band 38	ANT3	24.5	22.5	22.5	24.5	24.5
LTE Band 41		24.5	22.5	22.5	24.5	24.5
LTE Band 38	ANT4	25.7	21.7	21.7	24.2	24.2
LTE Band 41		25.7	21.7	21.7	24.2	24.2

Note: For some bands/antennas at some exposure conditions which cannot be covered were fully tested for RF exposure compliance.

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 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 n5	LTE B7
LTE Anchor Bands for n7	LTE B66
LTE Anchor Bands for n66	LTE B2/5/7/12/66
LTE Anchor Bands for n38	LTE B66
LTE Anchor Bands for n41	LTE B66
LTE Anchor Bands for n78	LTE B2/5/7/26/38/41/66

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

NR Band 7																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	505000	2525
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	509000	2545

NR Band 66																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz	
	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	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730	346500	1732.5
M	349000	1745	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	351500	1757.5

NR Band 38												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98

NR Band 41																				
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		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)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	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	529998	2649.99	528996	2644.98	528000	2640

NR Band 77 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930

NR Band 78 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

For <3450 MHz ~ 3550 MHz >

NR Band 77 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

NR Band 78 SCS30KHz																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

<For NR Overlap Bands Description>

1) NR Bands BW

Band	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	40 MHz	50 MHz	60 MHz	70 MHz	80 MHz	90 MHz	100 MHz
FR1 n38	Yes	Yes	Yes	Yes	Yes	Yes						
FR1 n41	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FR1 n77	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FR1 n78	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

2) NR Bands Tune up:

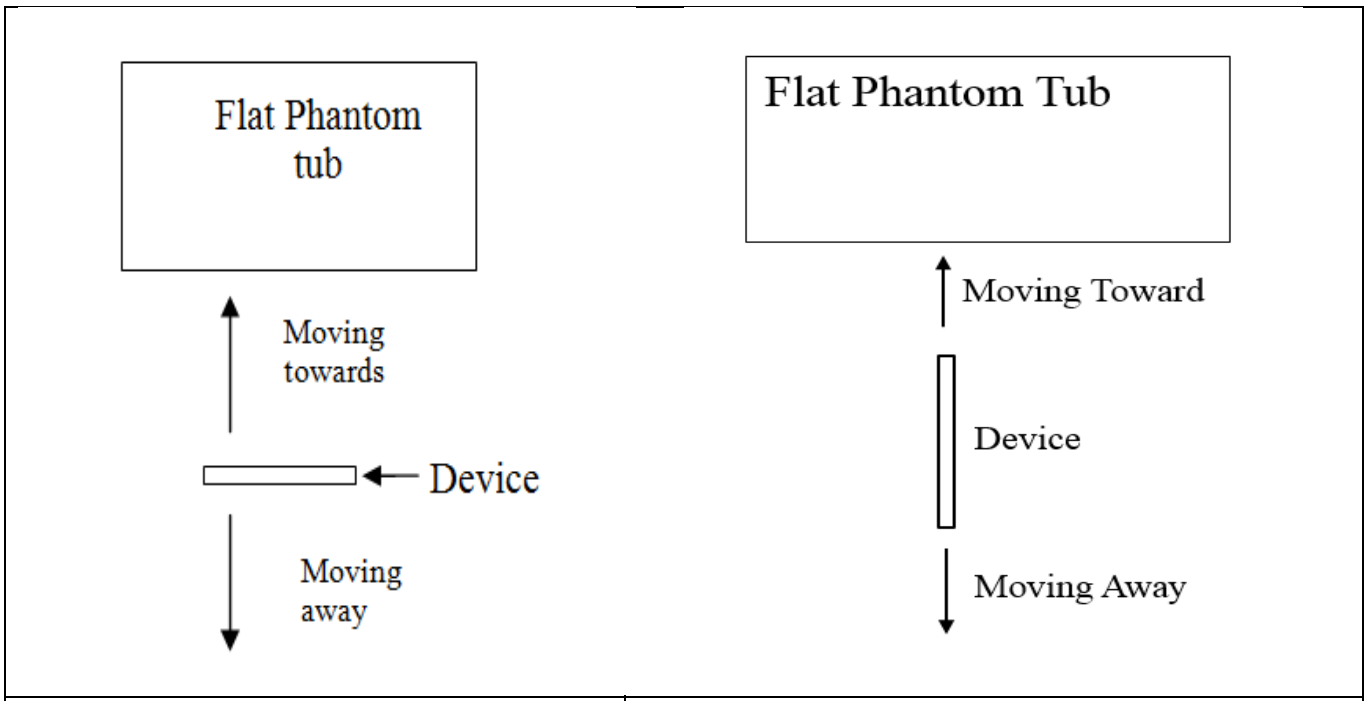
Band	Antenna	Default	DSI-0	DSI-4	DSI-1	DSI-3
		Tune up Limit	Tune up Limit	Tune up Limit	Tune up Limit	Tune up Limit
FR1 n38	Ant 1	25.0	18.0	18.0	20.5	25.0
FR1 n41		25.0	19.0	19.0	20.0	25.0
FR1 n38	Ant 2	25.7	25.7	21.7	21.7	25.7
FR1 n41		25.7	25.7	21.2	21.2	25.7
FR1 n38	Ant 3	24.5	20.5	20.5	22.5	24.5
FR1 n41		24.5	20.0	20.0	22.5	24.5
FR1 n38	Ant 4	25.7	20.2	20.2	22.7	22.7
FR1 n41		25.7	19.7	19.7	22.2	22.2
FR1 n77	Ant 1	22.0	18.5	18.5	20.0	22.0
FR1 n78		25.0	21.5	21.5	23.0	25.0
FR1 n77 PC2	Ant 1	23.0	18.0	18.0	19.0	23.0
FR1 n78 PC2		26.0	21.0	21.0	22.0	26.0
FR1 n77	Ant 5	23.0	17.5	17.5	19.0	19.0
FR1 n78		26.0	20.5	20.5	22.0	22.0
FR1 n77 PC2	Ant 5	24.0	17.0	17.0	18.0	18.0
FR1 n78 PC2		27.0	20.0	20.0	21.0	21.0
FR1 n77	Ant 6	23.5	16.5	16.5	19.0	19.0
FR1 n78		26.5	19.5	19.5	22.0	22.0
FR1 n77 PC2	Ant 6	24.0	15.5	15.5	19.0	19.0
FR1 n78 PC2		27.0	18.5	18.5	22.0	22.0
FR1 n77	Ant 7	22.5	22.5	18.0	18.0	21.0
FR1 n78		25.5	25.5	21.0	21.0	24.0
FR1 n77 PC2	Ant 7	23.0	23.0	18.0	18.0	21.5
FR1 n78 PC2		26.0	26.0	21.0	21.0	24.5

Note: For some bands/antennas at some exposure conditions which cannot be covered were fully tested for RF exposure compliance.

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.
2. Proximity sensor triggering distance testing was performed according 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 (3980MHz) and lowest (1750MHz) frequency was used for proximity sensor triggering testing
3. 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 or finger or hand at the front or back or bottom or left or right or top side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
4. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or bottom or left or right or top side of the device use a detection threshold distance. When front/back/left/right/top/bottom sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
5. 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 detection test set-up, Front and Back sides	Sensor detection test set-up, Left Side, Right Side, Bottom Side and Top Side

<P-Sensor>

< Sensor for Ant2 >

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	16	16	16	16	16	16	16	16

< Sensor for Ant1/3/7 >

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	6	6	6	6	6	6	6

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:

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

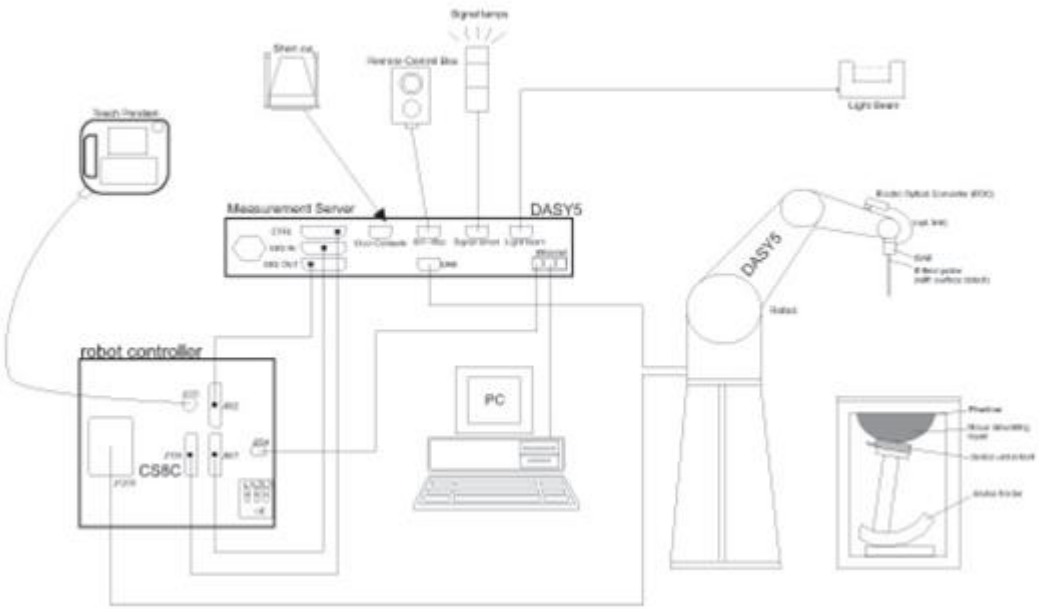
SAR is expressed in units of Watts per kilogram (W/kg)

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

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



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

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.

<ES3DV3 Probe>

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

<EX3DV4 Probe>

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

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.

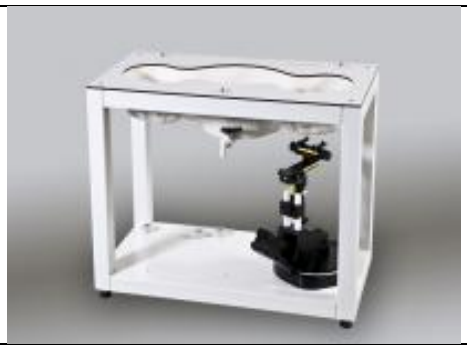
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

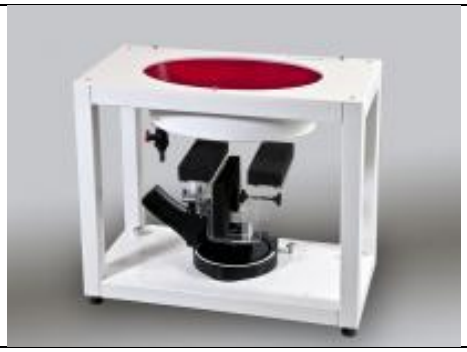
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
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	2025/2/23
SPEAG	835MHz System Validation Kit	D835V2	4d091	2022/8/19	2023/8/18
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/23
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	2021/12/20	2024/12/19
SPEAG	2450MHz System Validation Kit	D2450V2	1040	2023/4/25	2024/4/24
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2023/11/24
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2020/11/25	2023/11/23
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2020/11/25	2023/11/23
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2024/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2023/9/22
SPEAG	Data Acquisition Electronics	DAE4	1303	2022/11/24	2023/11/23
SPEAG	Data Acquisition Electronics	DAE4	1338	2022/12/15	2023/12/14
SPEAG	Dosimetric E-Field Probe	ES3DV3	3293	2022/11/22	2023/11/21
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2022/12/14	2023/12/13
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-1697	NCR	NCR
Testo	Thermo-Hygrometer	608-H1	1241332126	2022/7/20	2023/7/19
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2022/7/14	2023/7/13
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2023/7/5	2024/7/4
Agilent	ENA Series Network Analyzer	E5071C	MY46104587	2022/9/2	2023/9/1
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2022/8/15	2023/8/14
Anritsu	Vector Signal Generator	MG3710A	6201682672	2023/1/5	2024/1/4
Rohde & Schwarz	Power Meter	NRVD	102081	2022/7/14	2023/7/13
R&S	BLUETOOTH TESTER	CBT	101246	2023/5/15	2024/5/14
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2022/10/12	2023/10/11
TES	DIGITAC THERMOMETER	1310	220305411	2023/1/8	2024/1/7
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2022/7/14	2023/7/13
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2022/7/14	2023/7/13
Rohde & Schwarz	Power Meter	NRVD	102081	2023/7/5	2024/7/4
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2023/7/5	2024/7/4
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2023/7/5	2024/7/4
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	

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.

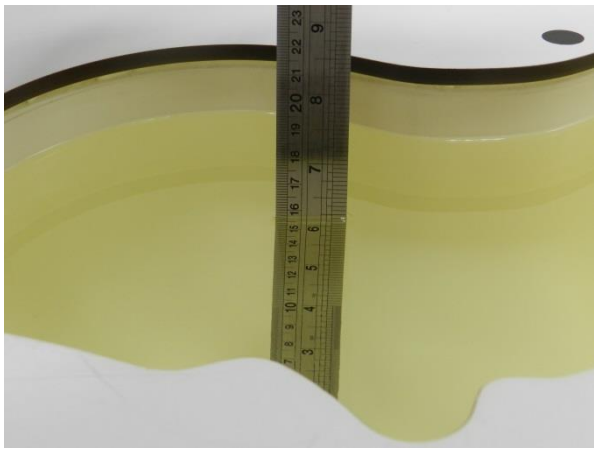


Fig 11.1 Photo of Liquid Height for Head SAR

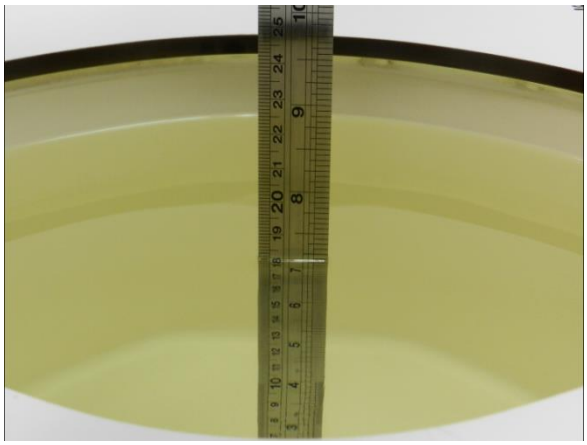


Fig 11.2 Photo of Liquid Height for Body SAR

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
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)	Head	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.7	0.889	42.269	0.89	41.90	-0.11	0.88	±5	2023/5/19
835	Head	22.6	0.912	41.935	0.90	41.50	1.33	1.05	±5	2023/5/20
1750	Head	22.8	1.316	40.214	1.37	40.10	-3.94	0.28	±5	2023/5/21
1900	Head	22.6	1.406	40.200	1.40	40.00	0.43	0.50	±5	2023/5/22
2600	Head	22.6	2.028	40.307	1.96	39.00	3.47	3.35	±5	2023/5/23
3500	Head	22.8	2.788	39.593	2.91	37.90	-4.19	4.47	±5	2023/5/29
3700	Head	22.7	3.043	38.211	3.12	37.70	-2.47	1.36	±5	2023/5/30
3900	Head	22.8	3.177	38.997	3.32	37.50	-4.31	3.99	±5	2023/5/31
750	Head	22.6	0.903	42.056	0.89	41.90	1.46	0.37	±5	2023/5/24
835	Head	22.7	0.933	41.807	0.90	41.50	3.67	0.74	±5	2023/5/25
1750	Head	22.9	1.351	40.380	1.37	40.10	-1.39	0.70	±5	2023/5/26
1900	Head	22.8	1.462	40.086	1.40	40.00	4.43	0.21	±5	2023/5/27
2600	Head	22.6	1.980	39.055	1.96	39.00	1.02	0.14	±5	2023/5/28
3500	Head	22.6	2.810	38.710	2.91	37.90	-3.44	2.14	±5	2023/5/29
3700	Head	22.7	2.988	38.359	3.12	37.70	-4.23	1.75	±5	2023/5/30
3900	Head	22.7	3.171	38.036	3.32	37.50	-4.49	1.43	±5	2023/5/31
2450	Head	22.6	1.809	38.523	1.80	39.20	0.50	-1.73	±5	2023/6/1
5250	Head	22.8	4.575	36.286	4.71	35.90	-2.87	1.08	±5	2023/6/3
5600	Head	22.9	4.952	35.732	5.07	35.50	-2.33	0.65	±5	2023/6/5
5750	Head	22.6	5.134	35.562	5.22	35.40	-1.65	0.46	±5	2023/6/7
1750	Head	22.6	1.315	40.175	1.37	40.10	-4.01	0.19	±5	2023/7/24

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)	Head	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 (%)
2023/5/19	750	Head	50	1087	3293	1303	0.399	8.58	7.98	-6.99
2023/5/20	835	Head	50	4d091	3293	1303	0.477	9.45	9.54	0.95
2023/5/21	1750	Head	50	1090	3293	1303	1.750	37.00	35	-5.41
2023/5/22	1900	Head	50	5d182	3293	1303	1.890	39.60	37.8	-4.55
2023/5/23	2600	Head	50	1061	3293	1303	2.960	56.60	59.2	4.59
2023/5/29	3500	Head	50	1037	3857	1338	3.170	68.00	63.4	-6.76
2023/5/30	3700	Head	50	1008	3857	1338	3.190	67.60	63.8	-5.62
2023/5/31	3900	Head	50	1048	3857	1338	3.260	69.10	65.2	-5.64
2023/5/24	750	Head	50	1087	3293	1303	0.407	8.58	8.14	-5.13
2023/5/25	835	Head	50	4d091	3293	1303	0.484	9.45	9.68	2.43
2023/5/26	1750	Head	50	1090	3293	1303	1.800	37.00	36	-2.70
2023/5/27	1900	Head	50	5d182	3293	1303	2.060	39.60	41.2	4.04
2023/5/28	2600	Head	50	1061	3293	1303	2.980	56.60	59.6	5.30
2023/5/29	3500	Head	50	1037	3857	1338	3.150	68.00	63	-7.35
2023/5/30	3700	Head	50	1008	3857	1338	3.290	67.60	65.8	-2.66
2023/5/31	3900	Head	50	1048	3857	1338	3.220	69.10	64.4	-6.80
2023/6/1	2450	Head	50	1040	3857	1338	2.440	52.70	48.8	-7.40
2023/6/3	5250	Head	50	1113	3857	1338	3.830	81.50	76.6	-6.01
2023/6/5	5600	Head	50	1113	3857	1338	3.980	82.60	79.6	-3.63
2023/6/7	5750	Head	50	1113	3857	1338	3.750	80.80	75	-7.18
2023/7/24	1750	Head	50	1090	3293	1303	1.870	37.00	37.4	1.08

<10g SAR>

Date	Frequency (MHz)	Head	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 (%)
2023/5/19	750	Head	50	1087	3293	1303	0.263	5.65	5.26	-6.90
2023/5/20	835	Head	50	4d091	3293	1303	0.311	6.22	6.22	0.00
2023/5/21	1750	Head	50	1090	3293	1303	0.932	19.50	18.64	-4.41
2023/5/22	1900	Head	50	5d182	3293	1303	0.977	20.20	19.54	-3.27
2023/5/23	2600	Head	50	1061	3293	1303	1.340	25.10	26.8	6.77
2023/5/29	3500	Head	50	1037	3857	1338	1.180	25.40	23.6	-7.09
2023/5/30	3700	Head	50	1008	3857	1338	1.180	24.40	23.6	-3.28
2023/5/31	3900	Head	50	1048	3857	1338	1.150	24.10	23	-4.56
2023/5/24	750	Head	50	1087	3293	1303	0.269	5.65	5.38	-4.78
2023/5/25	835	Head	50	4d091	3293	1303	0.317	6.22	6.34	1.93
2023/5/26	1750	Head	50	1090	3293	1303	0.957	19.50	19.14	-1.85
2023/5/27	1900	Head	50	5d182	3293	1303	1.060	20.20	21.2	4.95
2023/5/28	2600	Head	50	1061	3293	1303	1.340	25.10	26.8	6.77
2023/5/29	3500	Head	50	1037	3857	1338	1.190	25.40	23.8	-6.30
2023/5/30	3700	Head	50	1008	3857	1338	1.150	24.40	23	-5.74
2023/5/31	3900	Head	50	1048	3857	1338	1.130	24.10	22.6	-6.22
2023/6/1	2450	Head	50	1040	3857	1338	1.140	24.60	22.8	-7.32
2023/6/3	5250	Head	50	1113	3857	1338	1.110	23.30	22.2	-4.72
2023/6/5	5600	Head	50	1113	3857	1338	1.120	23.70	22.4	-5.49
2023/6/7	5750	Head	50	1113	3857	1338	1.070	23.00	21.4	-6.96
2023/7/24	1750	Head	50	1090	3293	1303	0.984	19.50	19.68	0.92

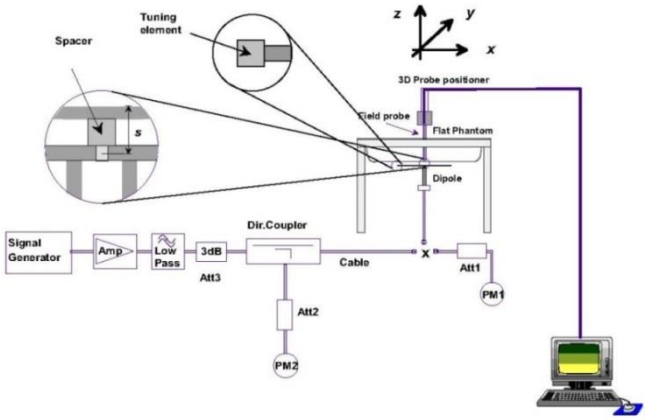


Fig 11.3.1 System Performance Check Setup

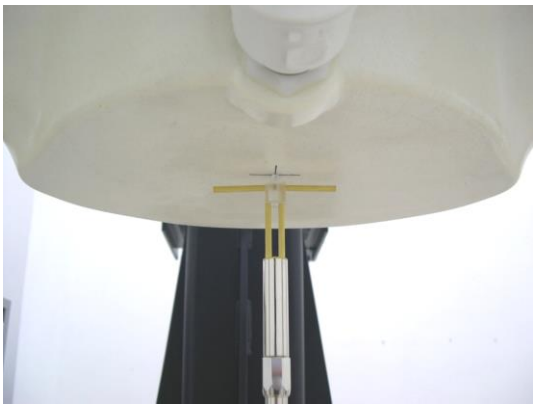


Fig 11.3.2 Setup Photo

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.

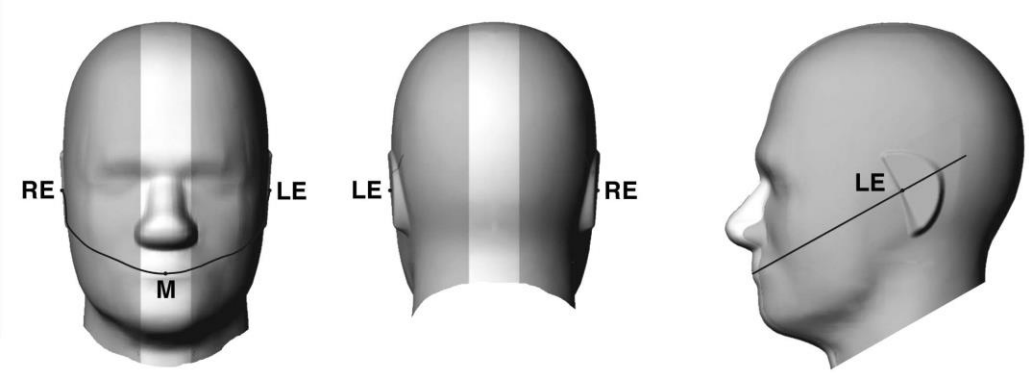


Fig 12.1.1 Front, back, and side views of SAM twin phantom

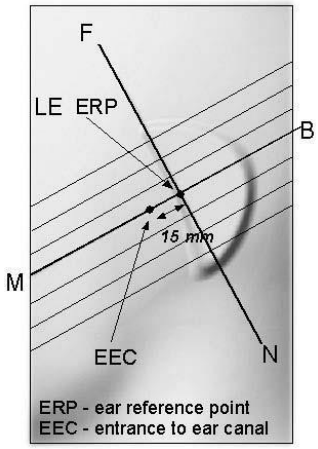


Fig 12.1.2 Close-up side view of phantom showing the ear region.

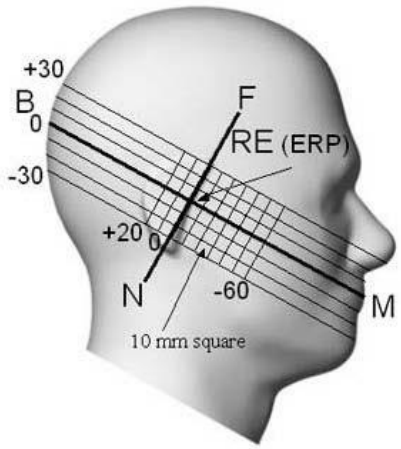


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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.

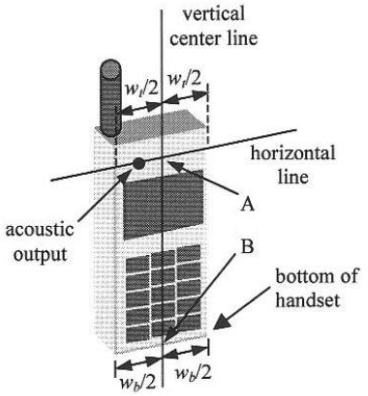


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

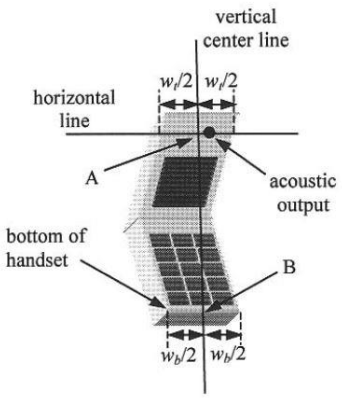


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

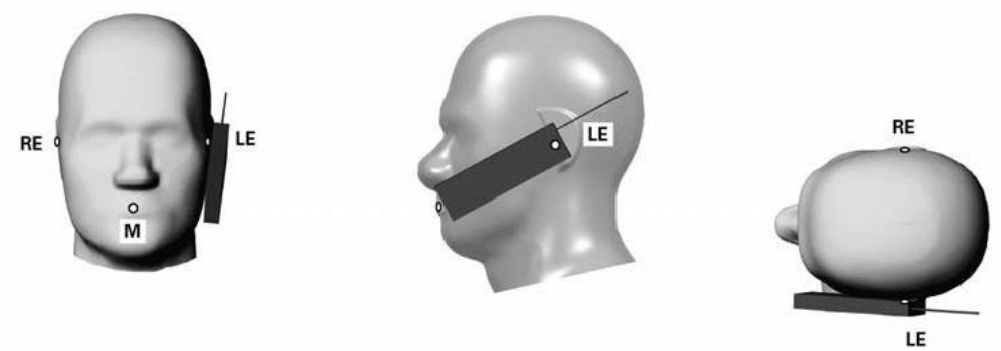


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

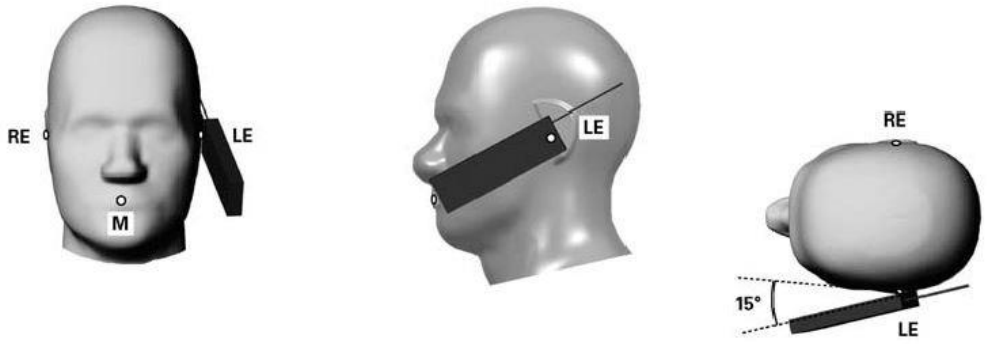


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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.

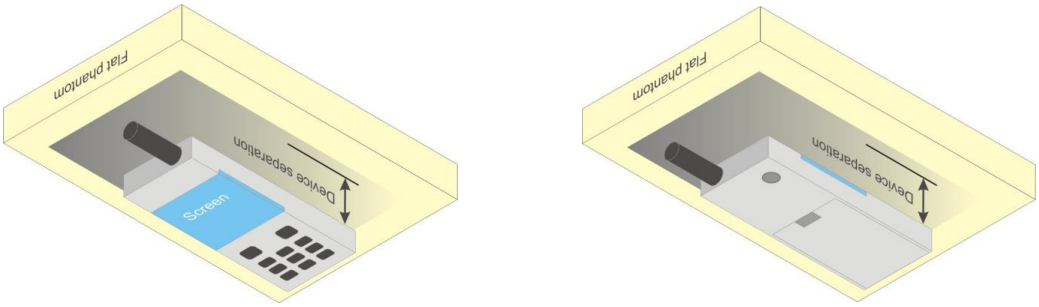


Fig 12.4 Body Worn Position

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.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For 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

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

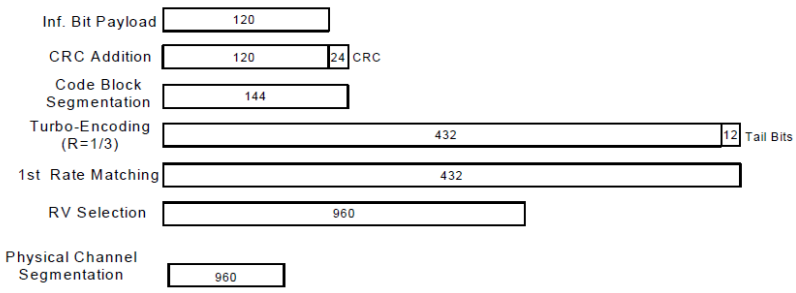


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

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

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

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

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed}1$: 30/15 $\beta_{ed}2$: 30/15	$\beta_{ed}3$: 24/15 $\beta_{ed}4$: 24/15	3.5	2.5	14	105	105

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

Setup Configuration

<WCDMA Conducted Power>

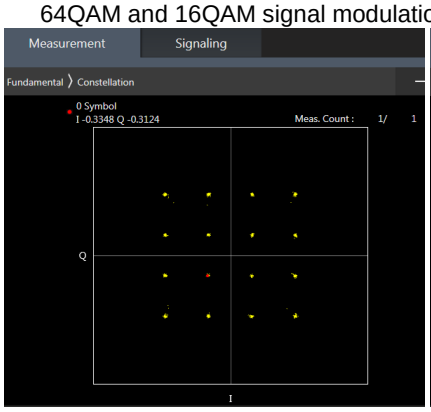
General Note:

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

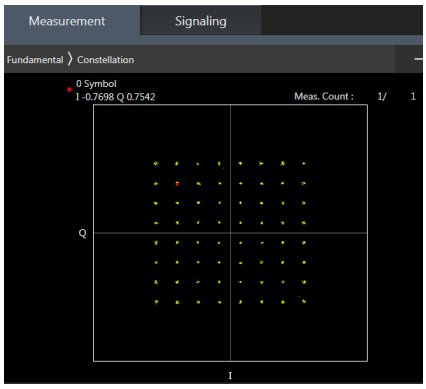
<LTE Conducted Power>

General Note:

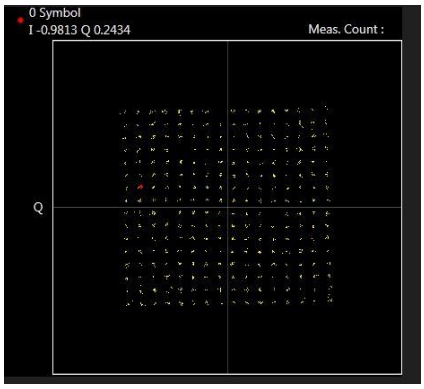
1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not 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 was covered by B25/B66/B26/B12/B4; 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.

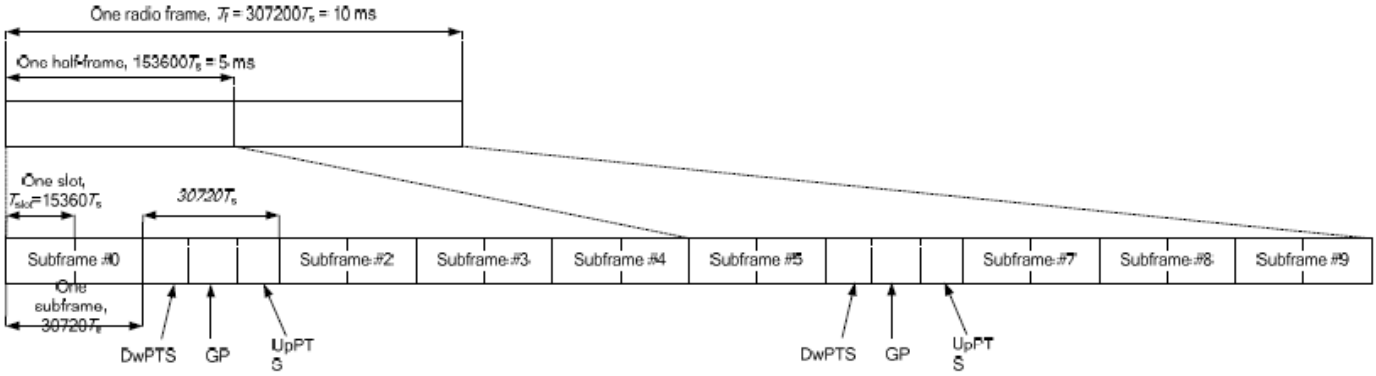


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

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.

<LTE Carrier Aggregation>

General Note:

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

2CC Downlink Carrier Aggregation					3CC Downlink Carrier Aggregation				
Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Restriction	Covered by Measurement Superset
1	CA_12A-66A	66A			1	CA_2A-4A-5A			
2	CA_2C				2	CA_2A-7A-66A	66A		
3	CA_38C	38C			3	CA_2A-7A-7A	7A-7A		
4	CA_41C	41C			4	CA_2A-7C	7C		
5	CA_42C	42C			5	CA_41A-41A-41A	41A-41A-41A		
6	CA_66C	66C			6	CA_41D	41D		
7	CA_66B	66B			7	CA_4A-7C	4A-7C		
8	CA_2A-2A				8	CA_5A-7C	7C		
9	CA_4A-4A	4A-4A			9	CA_7A-66A-66A	7A,66A-66A		
10	CA_7A-26A	7A			10	CA_5A-7A-7A	7A-7A		
11	CA_26A-38A	38A			11	CA_2A-4A-7A			
12	CA_26A-41A	41A			12	CA_2A-5A-66A	66A		
13	CA_2A-26A				13	CA_2A-5A-7A	7A		
14	CA_2A-38A	38A			14	CA_5A-66A-66A	66A-66A		
15	CA_2A-4A			3CC-1	15				
16	CA_2A-5A			3CC-1	16				
17	CA_2A-7A			3CC-2	17				
18	CA_41A-41A			3CC-5	18				
19	CA_4A-5A			3CC-1	19				
20	CA_4A-7A			3CC-11	20				
21	CA_5A-7A			3CC-10	21				
22	CA_66A-66A			3CC-14	22				
23	CA_7A-7A			3CC-10	23				
24	CA_7C			3CC-7	24				
25	CA_2A-66A			3CC-12	25				
26	CA_7A-66A			3CC-9	26				
27	CA_5A-66A			3CC-12	27				

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.

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 4/7/66/38/41/42 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 4/7/66/38/41/42

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	Ant1/2/3/4
CA_38C	Ant1/2/3/4

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B7/38 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.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	Antenna Tx
CA_2A-4A	B2: Ant2/4	B4: Ant1/3
CA_4A-7A	B4: Ant1/2/3/4	B7: Ant1/2/3/4

General Note:

1. In inter-band UL CA operation, the each PCC TX power level will be less than or same as the standalone LTE operation. 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 n5/n7/n66/n38/n41/n78 is NSA mode.
2. 5G NR n5/n7/n66/n38/n41/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s 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 5GNR n77/n78 HPUE, 5GNR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
5. For 5GNR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
6. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
7. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
8. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
9. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
10. 5GNR n77/n78 supports HPUE, HPUE power and SAR testing performed separately.
11. 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>

EN-DC combinations	Antenna Tx	
	LTE TX	NR TX
DC_7A_n5A	Ant1/3/4/2	Ant0/1
DC_66A_n7A	Ant1/3	Ant1/3/4/2
DC_12A_n66A	Ant0/1	Ant1/3/4/2
DC_2A_n66A	Ant2/4	Ant1/3/4/2
DC_5A_n66A	Ant0/1	Ant1/3/4/2
DC_66A_n66A	Ant1/3/4/2	Ant1/3/4/2
DC_7A_n66A	Ant1/3/4/2	Ant1/3
DC_66A_n38A	Ant1/3	Ant1/3/4/2
DC_66A_n41A	Ant1/3	Ant1/3/4/2
DC_2A_n78A	Ant2/4	Ant1/5/6/7
DC_38A_n78A	Ant1/3/4/2	Ant1/5/6/7
DC_41A_n78A	Ant1/3/4/2	Ant1/5/6/7
DC_5A_n78A	Ant0/1	Ant1/5/6/7
DC_66A_n78A	Ant1/3/4/2	Ant1/5/6/7
DC_7A_n78A	Ant1/3/4/2	Ant1/5/6/7
DC_26A_n78A	Ant0/1	Ant1/5/6/7

<WLAN Conducted Power>

General Note:

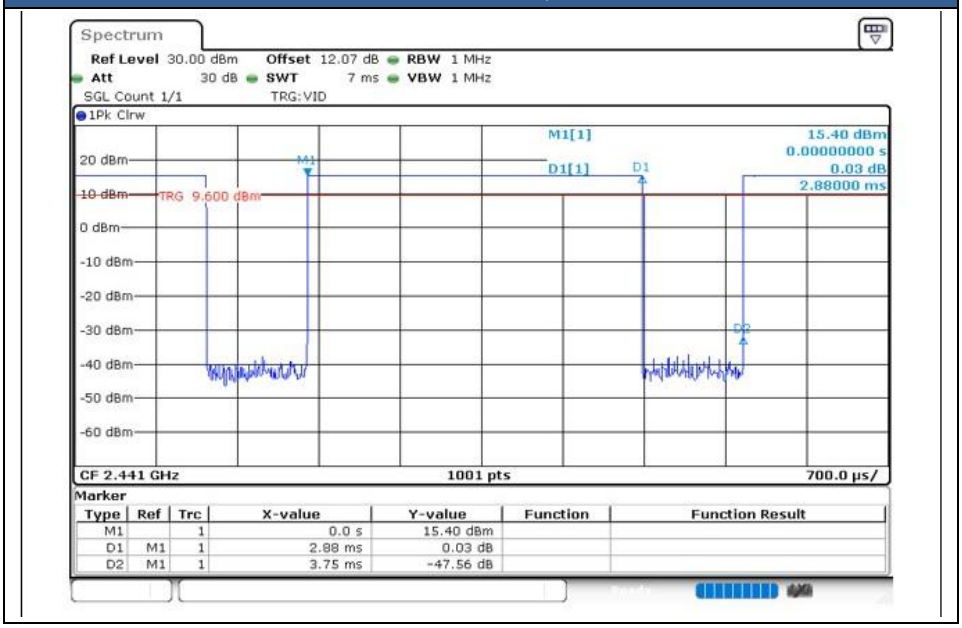
1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default 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. 802.11ax/be supports full tone size and partial tone size, after verification for the partial tone power level is far less than full tone power level, so we chose full tone power to be measured in this report.
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 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 antennas respectively to calculate sum of the power for MIMO mode.

<2.4GHz Bluetooth>

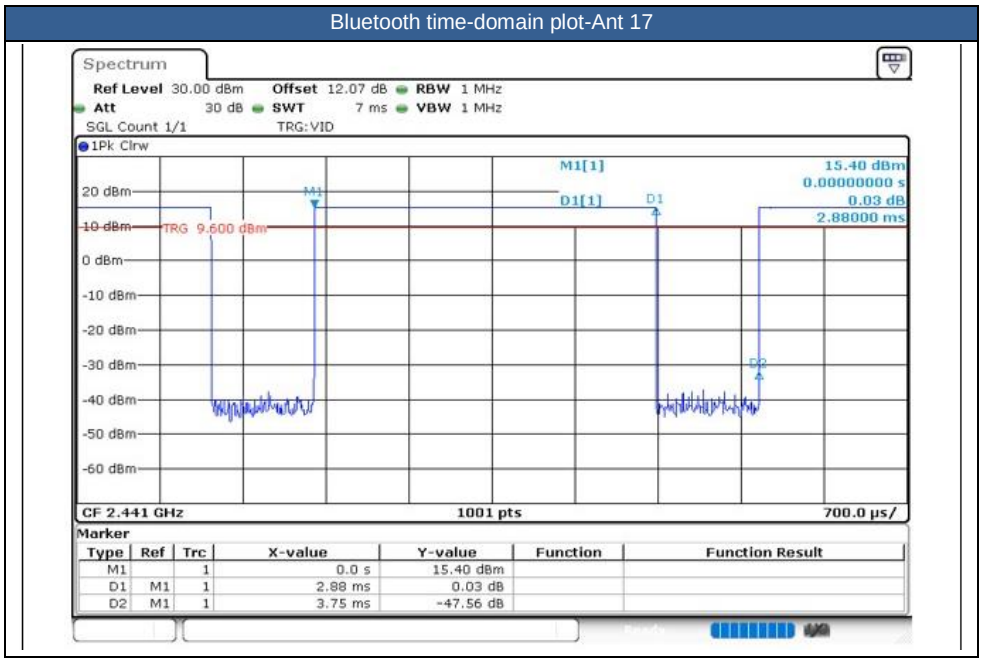
General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.8% for ANT6, 76.8% for ANT17 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-Ant 6



Bluetooth time-domain plot-Ant 17



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.
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 sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
5. For WLAN/BT when transmit simultaneous with WWAN, power reduction will be activated to head, Body, hotspot and extremity exposure conditions.
6. 5GNR n77/n78 supports HPUE mode, HPUE power and SAR testing performed separately.
7. For 5GNR n77/n78 HPUE, 5GNR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
8. 5GNR n77/n78 HPUE with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
9. 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.
10. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced 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 GSM 1900, LTE Band 38/41, 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.
11. LTE B5 at ant0/1 and LTE B4/66 at ant1/2/3/4, 5GNR n5 at ant0/1 and 5GNR n66 at ant1/2/3/4 support different PAs for some antennas. For LTE B5 at ant0/1 and LTE B4/66 at ant2/4, 5GNR n5 at ant0/1 and 5GNR n66 at ant2/4, the maximum power of Main PA is higher than and very close to the other PA, for RF exposure, after verification all PAs in a same

position, so choose the worst case of the main PA to perform full SAR tested to ensure the RF exposure is compliance and other PA verify the worst case. For LTE B4/66 at ant1/3, 5GNR n66 at ant1/3, the maximum power of Main PA is less than and very close to the other PA, for RF exposure, after verification all PAs in a same position, so choose the other PA to perform full SAR tested to ensure the RF exposure is compliance and main PA verify the worst case.

UL duty cycle detection mechanism specification:

The device supports the UL duty cycle detection mechanism for LTE TDD B38/41 & 5GNR n41/77/78 (including FR1 SA and FR1 ENDC).The mechanism is that the output power (maximum burst power) is different at different UL duty cycle levels, but maintaining the maximum average power is matched to the SAR is compliant. When at low duty cycle, the transmit power is compensated but does not exceed the upper range defined by the 3GPP standard, thus improving the OTA performance

Note:

1. SAR is not required because the average output power is not higher than the Max UL duty cycle configuration.
2. For each band, the SAR evaluation uses the highest Time-average power configuration.
3. The detail results please referred to KDB inquiry with the FCC and Duty cycle_OD.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > 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 was covered by LTE B25/B66/B26/B12/B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. SAR testing start with the largest channel bandwidth and measure SAR for 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/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. The 2.4GHz/5GHz WLAN can transmit in SISO and 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 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 antennas respectively to calculate sum of the power for MIMO mode.
9. 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.

DSI status description:

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

Exposure Condition	DSI	Trigger conditions
Head SAR	DSI 0	Earpiece On
Hotspot SAR	DSI 4	Hotspot On
Body worn/ Extremity SAR	DSI 3	Sensor Off/ receiver off
Body worn/ Extremity SAR	DSI 1	Sensor On

15.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
									750MHz											
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	23095	707.5	24.56	25.50	1.242	-	-	-0.09	0.091	0.113
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	23095	707.5	23.74	24.50	1.191	-	-	0.03	0.074	0.088
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	23095	707.5	24.56	25.50	1.242	-	-	0.06	0.065	0.081
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	23095	707.5	23.74	24.50	1.191	-	-	-0.13	0.055	0.066
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	23095	707.5	24.56	25.50	1.242	-	-	0.02	0.094	0.117
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	23095	707.5	23.74	24.50	1.191	-	-	0.1	0.080	0.095
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	23095	707.5	24.56	25.50	1.242	-	-	0.07	0.049	0.061
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	23095	707.5	23.74	24.50	1.191	-	-	0.07	0.042	0.050
01	LTE Band 12_Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	23095	707.5	23.74	25.50	1.500	-	-	-0.01	0.528	**0.792**
	LTE Band 12_EN-DC	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	23095	707.5	22.57	24.00	1.390	-	-	0.03	0.375	0.521
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	23095	707.5	22.76	24.50	1.493	-	-	-0.11	0.443	0.661
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	23095	707.5	23.74	25.50	1.500	-	-	-0.09	0.342	0.513
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	23095	707.5	22.76	24.50	1.493	-	-	-0.1	0.279	0.416
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	23095	707.5	23.74	25.50	1.500	-	-	0.06	0.212	0.318
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	23095	707.5	22.76	24.50	1.493	-	-	0.06	0.179	0.267
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	23095	707.5	23.74	25.50	1.500	-	-	0.02	0.189	0.283
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	23095	707.5	22.76	24.50	1.493	-	-	0.05	0.160	0.239
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	23230	782	24.64	25.50	1.219	-	-	0.16	0.159	0.194
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 0	23230	782	23.98	24.50	1.127	-	-	0.05	0.126	0.142
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	23230	782	24.64	25.50	1.219	-	-	0.19	0.116	0.141
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 0	23230	782	23.98	24.50	1.127	-	-	-0.18	0.097	0.109
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	23230	782	24.64	25.50	1.219	-	-	0.01	0.176	0.215
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 0	23230	782	23.98	24.50	1.127	-	-	0.02	0.137	0.154
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	23230	782	24.64	25.50	1.219	-	-	0.1	0.097	0.118
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 0	23230	782	23.98	24.50	1.127	-	-	0.18	0.080	0.090
02	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	23230	782	23.47	25.00	1.422	-	-	0.09	0.647	**0.920**
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 0	23230	782	22.90	24.50	1.445	-	-	0.09	0.589	0.851
	LTE Band 13	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	23230	782	22.87	24.50	1.455	-	-	0.04	0.573	0.834
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	23230	782	23.47	25.00	1.422	-	-	-0.04	0.472	0.671
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 0	23230	782	22.90	24.50	1.445	-	-	0.08	0.410	0.593
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	23230	782	23.47	25.00	1.422	-	-	0.05	0.317	0.451
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 0	23230	782	22.90	24.50	1.445	-	-	0.02	0.285	0.412
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	23230	782	23.47	25.00	1.422	-	-	0.07	0.282	0.401
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 0	23230	782	22.90	24.50	1.445	-	-	0.11	0.261	0.377
									835MHz											
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	DSI 0	189	836.4	26.95	28.00	1.274	-	-	-0.01	0.150	0.191
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	DSI 0	189	836.4	26.95	28.00	1.274	-	-	-0.15	0.104	0.132
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	DSI 0	189	836.4	26.95	28.00	1.274	-	-	0.06	0.195	0.248
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	DSI 0	189	836.4	26.95	28.00	1.274	-	-	0.08	0.091	0.116
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 0	189	836.4	24.98	26.50	1.419	-	-	-0.12	0.596	0.846
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	DSI 0	189	836.4	24.98	26.50	1.419	-	-	-0.13	0.386	0.548
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 0	189	836.4	24.98	26.50	1.419	-	-	-0.05	0.308	0.437
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 0	189	836.4	24.98	26.50	1.419	-	-	-0.02	0.246	0.349
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 0	128	824.2	24.80	26.50	1.479	-	-	0.08	0.563	0.833
03	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 0	251	848.8	24.95	26.50	1.429	-	-	-0.05	0.597	**0.853**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 0	4182	836.4	24.16	25.00	1.213	-	-	-0.11	0.189	0.229
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 0	4182	836.4	24.16	25.00	1.213	-	-	-0.11	0.115	0.140
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 0	4182	836.4	24.16	25.00	1.213	-	-	0.03	0.201	0.244
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 0	4182	836.4	24.16	25.00	1.213	-	-	0.09	0.103	0.125
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	4182	836.4	21.93	23.50	1.435	-	-	0.13	0.604	0.867

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	4132	826.4	21.73	23.50	1.503	-	-	0.08	0.576	0.866
04	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	4233	846.6	21.90	23.50	1.445	-	-	0.01	0.629	**0.909**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	4182	836.4	21.93	23.50	1.435	-	-	0.1	0.410	0.589
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	4182	836.4	21.93	23.50	1.435	-	-	-0.02	0.281	0.403
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	4182	836.4	21.93	23.50	1.435	-	-	-0.06	0.260	0.373
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 0	26865	831.5	24.58	25.50	1.236	-	-	0.04	0.183	0.226
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 0	26865	831.5	23.63	24.50	1.222	-	-	0.02	0.144	0.176
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 0	26865	831.5	24.58	25.50	1.236	-	-	-0.01	0.120	0.148
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 0	26865	831.5	23.63	24.50	1.222	-	-	0.03	0.093	0.114
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	26865	831.5	24.58	25.50	1.236	-	-	0.09	0.202	0.250
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 0	26865	831.5	23.63	24.50	1.222	-	-	0.04	0.155	0.189
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 0	26865	831.5	24.58	25.50	1.236	-	-	-0.12	0.100	0.124
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 0	26865	831.5	23.63	24.50	1.222	-	-	0.17	0.079	0.097
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 0	20525	836.5	24.85	25.50	1.161	-	-	0.03	0.216	0.251
05	LTE Band 26_Main PA	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	26865	831.5	22.38	24.00	1.452	-	-	0.04	0.685	**0.995**
	LTE Band 26_ENDC	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	26865	831.5	19.26	21.00	1.493	-	-	0.04	0.336	0.502
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 0	26865	831.5	22.21	24.00	1.510	-	-	-0.17	0.648	0.979
	LTE Band 26_Main PA	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	DSI 0	26865	831.5	22.15	24.00	1.531	-	-	-0.03	0.647	0.991
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	26865	831.5	22.38	24.00	1.452	-	-	0.1	0.516	0.749
	LTE Band 26_ENDC	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	26865	831.5	19.26	21.00	1.493	-	-	0.1	0.367	0.548
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 0	26865	831.5	22.21	24.00	1.510	-	-	-0.15	0.486	0.734
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	26865	831.5	22.38	24.00	1.452	-	-	0.03	0.337	0.489
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 0	26865	831.5	22.21	24.00	1.510	-	-	0.07	0.325	0.491
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	26865	831.5	22.38	24.00	1.452	-	-	0.02	0.322	0.468
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 0	26865	831.5	22.21	24.00	1.510	-	-	-0.13	0.320	0.483
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	20525	836.5	22.42	24.00	1.439	-	-	0.08	0.640	0.921
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 0	167300	836.5	24.63	25.50	1.222	-	-	0.08	0.175	0.214
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 0	167300	836.5	24.61	25.50	1.227	-	-	0.06	0.199	0.244
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 0	167300	836.5	24.63	25.50	1.222	-	-	-0.05	0.102	0.125
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 0	167300	836.5	24.61	25.50	1.227	-	-	0.18	0.119	0.146
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 0	167300	836.5	24.63	25.50	1.222	-	-	-0.17	0.206	0.252
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 0	167300	836.5	24.61	25.50	1.227	-	-	0.05	0.211	0.259
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 0	167300	836.5	24.63	25.50	1.222	-	-	-0.09	0.100	0.122
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 0	167300	836.5	24.61	25.50	1.227	-	-	-0.17	0.108	0.133
	FR1 n5_Other PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 0	167300	836.5	24.49	25.50	1.262	-	-	0.03	0.194	0.245
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	167300	836.5	22.30	24.00	1.479	-	-	0.17	0.528	0.781
06	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	167300	836.5	22.25	24.00	1.496	-	-	0.12	0.625	**0.935**
	FR1 n5_ENDC	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	167300	836.5	19.68	21.50	1.521	-	-	0.05	0.346	0.526
	FR1 n5_Main PA	20M	QPSK	100	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	167300	836.5	22.23	24.00	1.503	-	-	0.08	0.520	0.782
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	167300	836.5	22.30	24.00	1.479	-	-	0.02	0.398	0.589
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	167300	836.5	22.25	24.00	1.496	-	-	-0.07	0.437	0.654
	FR1 n5_ENDC	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	167300	836.5	19.68	21.50	1.521	-	-	0.02	0.222	0.338
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 0	167300	836.5	22.30	24.00	1.479	-	-	0.02	0.272	0.402
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 0	167300	836.5	22.25	24.00	1.496	-	-	-0.09	0.340	0.509
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 0	167300	836.5	22.30	24.00	1.479	-	-	0.02	0.237	0.351
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 0	167300	836.5	22.25	24.00	1.496	-	-	0.05	0.304	0.455
	FR1 n5_Other PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	167300	836.5	22.31	24.00	1.476	-	-	0.07	0.558	0.823
1750MHz																				
07	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	1413	1732.6	17.26	19.00	1.493	-	-	0.05	0.590	**0.881**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	1312	1712.4	17.12	19.00	1.542	-	-	0.02	0.553	0.853
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	1513	1752.6	17.24	19.00	1.500	-	-	0.04	0.540	0.810
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	1413	1732.6	17.26	19.00	1.493	-	-	0.07	0.380	0.567
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	1413	1732.6	17.26	19.00	1.493	-	-	0.17	0.251	0.375
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	1413	1732.6	17.26	19.00	1.493	-	-	0.13	0.308	0.460
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	1413	1732.6	23.57	25.00	1.390	-	-	0.02	0.170	0.236
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 0	1413	1732.6	23.57	25.00	1.390	-	-	0.19	0.058	0.081

	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 0	1413	1732.6	23.57	25.00	1.390	-	-	0.08	0.137	0.190
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 0	1413	1732.6	23.57	25.00	1.390	-	-	-0.04	0.089	0.124
08	LTE Band 4_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	20175	1732.5	16.08	17.00	1.236	-	-	0.01	0.411	**0.508**
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	20175	1732.5	16.01	17.00	1.256	-	-	-0.08	0.402	0.505
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	20175	1732.5	16.08	17.00	1.236	-	-	0.08	0.302	0.373
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	20175	1732.5	16.01	17.00	1.256	-	-	0.16	0.301	0.378
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	20175	1732.5	16.08	17.00	1.236	-	-	-0.16	0.202	0.250
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	20175	1732.5	16.01	17.00	1.256	-	-	-0.02	0.190	0.239
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	20175	1732.5	16.08	17.00	1.236	-	-	0.1	0.224	0.277
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	20175	1732.5	16.01	17.00	1.256	-	-	0.04	0.244	0.306
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	20175	1732.5	14.62	16.00	1.374	-	-	-0.12	0.345	0.474
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	20175	1732.5	24.52	25.70	1.312	-	-	-0.02	0.209	0.274
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	20175	1732.5	23.74	24.70	1.247	-	-	0.03	0.184	0.230
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	20175	1732.5	24.52	25.70	1.312	-	-	0.11	0.088	0.115
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	20175	1732.5	23.74	24.70	1.247	-	-	-0.02	0.074	0.092
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	20175	1732.5	24.52	25.70	1.312	-	-	0.02	0.161	0.211
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	20175	1732.5	23.74	24.70	1.247	-	-	0.08	0.137	0.171
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	20175	1732.5	24.52	25.70	1.312	-	-	0.01	0.100	0.131
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	20175	1732.5	23.74	24.70	1.247	-	-	-0.03	0.081	0.101
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	20175	1732.5	23.85	24.50	1.161	-	-	0.02	0.181	0.210
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	20175	1732.5	19.20	20.50	1.349	-	-	0.12	0.375	0.506
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	20175	1732.5	19.18	20.50	1.355	-	-	-0.15	0.339	0.459
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	20175	1732.5	19.20	20.50	1.349	-	-	0.02	0.072	0.097
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	20175	1732.5	19.18	20.50	1.355	-	-	0.03	0.068	0.092
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	20175	1732.5	19.20	20.50	1.349	-	-	-0.1	0.172	0.232
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	20175	1732.5	19.18	20.50	1.355	-	-	-0.06	0.179	0.243
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	20175	1732.5	19.20	20.50	1.349	-	-	0.03	0.039	0.053
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	20175	1732.5	19.18	20.50	1.355	-	-	-0.12	0.045	0.061
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	20175	1732.5	17.89	19.50	1.449	-	-	0.08	0.207	0.300
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	20175	1732.5	24.36	25.50	1.300	-	-	0.17	0.082	0.107
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	20175	1732.5	23.53	24.50	1.250	-	-	0.03	0.072	0.090
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 0	20175	1732.5	24.36	25.50	1.300	-	-	0.13	0.010	0.013
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 0	20175	1732.5	23.53	24.50	1.250	-	-	0.06	0.010	0.013
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	20175	1732.5	24.36	25.50	1.300	-	-	-0.09	0.102	0.133
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 0	20175	1732.5	23.53	24.50	1.250	-	-	0.02	0.088	0.110
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 0	20175	1732.5	24.36	25.50	1.300	-	-	-0.09	0.010	0.013
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 0	20175	1732.5	23.53	24.50	1.250	-	-	0.11	0.010	0.013
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	20175	1732.5	23.27	24.50	1.327	-	-	0.1	0.087	0.115
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	132322	1745	16.49	18.00	1.416	-	-	0.05	0.464	0.657
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	132322	1745	16.36	18.00	1.459	-	-	0.07	0.392	0.572
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	132322	1745	16.49	18.00	1.416	-	-	0.08	0.293	0.415
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	132322	1745	16.36	18.00	1.459	-	-	-0.12	0.288	0.420
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	132322	1745	16.49	18.00	1.416	-	-	0.01	0.215	0.304
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	132322	1745	16.36	18.00	1.459	-	-	-0.18	0.162	0.236
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	132322	1745	16.49	18.00	1.416	-	-	0.07	0.252	0.357
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	132322	1745	16.36	18.00	1.459	-	-	-0.17	0.225	0.328
	LTE Band 66 _Other PA_ENDC	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	132322	1745	14.62	15.50	1.225	-	-	-0.09	0.397	0.486
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	132322	1745	23.61	24.50	1.227	-	-	0.04	0.172	0.211
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	132322	1745	22.72	23.50	1.197	-	-	0.04	0.136	0.163
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	132322	1745	23.61	24.50	1.227	-	-	0.05	0.062	0.076
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	132322	1745	22.72	23.50	1.197	-	-	0.04	0.050	0.060
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	132322	1745	23.61	24.50	1.227	-	-	0.01	0.146	0.179
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	132322	1745	22.72	23.50	1.197	-	-	0.14	0.115	0.138
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	132322	1745	23.61	24.50	1.227	-	-	0.03	0.109	0.134
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	132322	1745	22.72	23.50	1.197	-	-	-0.08	0.086	0.103
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	132322	1745	20.40	22.00	1.445	-	-	0.13	0.382	0.552

09	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	132322	1745	20.32	22.00	1.472	-	-	0.03	0.467	**0.688**
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	132322	1745	20.40	22.00	1.445	-	-	0.01	0.035	0.051
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	132322	1745	20.32	22.00	1.472	-	-	0.03	0.028	0.041
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	132322	1745	20.40	22.00	1.445	-	-	-0.15	0.081	0.117
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	132322	1745	20.32	22.00	1.472	-	-	0.08	0.081	0.119
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	132322	1745	20.40	22.00	1.445	-	-	0.05	0.019	0.027
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	132322	1745	20.32	22.00	1.472	-	-	0.02	0.018	0.027
	LTE Band 66 _Other PA_ENDC	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	132322	1745	16.56	18.00	1.393	-	-	0.08	0.358	0.499
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	132322	1745	23.33	24.50	1.309	-	-	0.02	0.054	0.071
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	132322	1745	22.52	23.50	1.253	-	-	-0.09	0.044	0.055
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 0	132322	1745	23.33	24.50	1.309	-	-	-0.12	0.010	0.013
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 0	132322	1745	22.52	23.50	1.253	-	-	-0.07	0.010	0.013
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	132322	1745	23.33	24.50	1.309	-	-	0.04	0.093	0.122
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 0	132322	1745	22.52	23.50	1.253	-	-	-0.11	0.076	0.095
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 0	132322	1745	23.33	24.50	1.309	-	-	0.07	0.010	0.013
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 0	132322	1745	22.52	23.50	1.253	-	-	0.17	0.029	0.036
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	349000	1745	17.83	18.50	1.167	-	-	-0.18	0.670	0.782
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	349000	1745	17.80	18.50	1.175	-	-	-0.07	0.701	0.824
	FR1 n66_Other PA	45M	QPSK	240	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	349000	1745	17.75	18.50	1.189	-	-	0.01	0.717	0.852
	FR1 n66_ENDC	45M	QPSK	240	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	349000	1745	15.82	16.50	1.169	-	-	0.06	0.436	0.510
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	349000	1745	17.83	18.50	1.167	-	-	0.1	0.494	0.576
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	349000	1745	17.80	18.50	1.175	-	-	-0.14	0.533	0.626
	FR1 n66_ENDC	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	349000	1745	15.77	16.50	1.183	-	-	-0.14	0.257	0.304
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 0	349000	1745	17.83	18.50	1.167	-	-	0.14	0.349	0.407
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 0	349000	1745	17.80	18.50	1.175	-	-	0.11	0.371	0.436
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 0	349000	1745	17.83	18.50	1.167	-	-	0.03	0.379	0.442
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 0	349000	1745	17.80	18.50	1.175	-	-	-0.13	0.427	0.502
	FR1 n66_Main PA	45M	QPSK	240	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	349000	1745	15.35	17.00	1.462	-	-	0.03	0.385	0.563
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 0	349000	1745	23.90	24.50	1.148	-	-	0.07	0.176	0.202
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 0	349000	1745	23.82	24.50	1.169	-	-	0.05	0.165	0.193
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 0	349000	1745	23.90	24.50	1.148	-	-	0.08	0.063	0.072
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 0	349000	1745	23.82	24.50	1.169	-	-	-0.13	0.077	0.090
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 0	349000	1745	23.90	24.50	1.148	-	-	0.07	0.139	0.160
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 0	349000	1745	23.82	24.50	1.169	-	-	0.05	0.139	0.163
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 0	349000	1745	23.90	24.50	1.148	-	-	-0.04	0.087	0.100
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 0	349000	1745	23.82	24.50	1.169	-	-	0.04	0.095	0.111
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 0	349000	1745	24.06	25.00	1.242	-	-	-0.17	0.156	0.194
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	349000	1745	21.94	22.50	1.138	-	-	-0.02	0.689	0.784
10	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	349000	1745	21.92	22.50	1.143	-	-	0.01	0.791	**0.904**
	FR1 n66_ENDC	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	349000	1745	19.53	20.00	1.114	-	-	0.01	0.451	0.503
	FR1 n66_Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	349000	1745	21.88	22.50	1.153	-	-	0.06	0.756	0.872
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI 0	349000	1745	21.94	22.50	1.138	-	-	0.06	0.099	0.113
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI 0	349000	1745	21.92	22.50	1.143	-	-	0.05	0.136	0.155
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI 0	349000	1745	21.94	22.50	1.138	-	-	-0.15	0.253	0.288
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI 0	349000	1745	21.92	22.50	1.143	-	-	0.01	0.422	0.482
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI 0	349000	1745	21.94	22.50	1.138	-	-	0.07	0.058	0.066
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI 0	349000	1745	21.92	22.50	1.143	-	-	0.09	0.078	0.089
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	349000	1745	18.94	20.50	1.432	-	-	0.04	0.323	0.463
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 0	349000	1745	23.76	24.50	1.186	-	-	-0.12	0.050	0.059
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 0	349000	1745	23.65	24.50	1.216	-	-	0.11	0.057	0.069
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 0	349000	1745	23.76	24.50	1.186	-	-	0.14	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 0	349000	1745	23.65	24.50	1.216	-	-	-0.11	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 0	349000	1745	23.76	24.50	1.186	-	-	0.03	0.072	0.085
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 0	349000	1745	23.65	24.50	1.216	-	-	0.09	0.087	0.106
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 0	349000	1745	23.76	24.50	1.186	-	-	0.05	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 0	349000	1745	23.65	24.50	1.216	-	-	0.08	0.010	0.012

	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 0	349000	1745	23.26	24.50	1.330	-	-	0.09	0.072	0.096
	1900MHz																			
11	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 0	661	1880	16.53	18.00	1.403	-	-	0.07	0.697	**0.978**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 0	512	1850.2	16.46	18.00	1.426	-	-	0.06	0.647	0.922
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 0	810	1909.8	16.34	18.00	1.466	-	-	0.17	0.614	0.900
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	DSI 0	661	1880	16.53	18.00	1.403	-	-	0.01	0.541	0.759
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 0	661	1880	16.53	18.00	1.403	-	-	0.04	0.314	0.440
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 0	661	1880	16.53	18.00	1.403	-	-	0.11	0.379	0.532
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 2	DSI 0	661	1880	24.02	25.00	1.253	-	-	0.03	0.079	0.099
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 2	DSI 0	661	1880	24.02	25.00	1.253	-	-	0.03	0.049	0.061
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 2	DSI 0	661	1880	24.02	25.00	1.253	-	-	0.08	0.082	0.103
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 2	DSI 0	661	1880	24.02	25.00	1.253	-	-	0.07	0.053	0.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	9400	1880	15.68	17.50	1.521	-	-	-0.14	0.701	1.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	9262	1852.4	15.57	17.50	1.560	-	-	-0.11	0.604	0.942
12	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 0	9538	1907.6	15.66	17.50	1.528	-	-	-0.02	0.704	**1.075**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 0	9400	1880	15.68	17.50	1.521	-	-	0.04	0.468	0.712
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 0	9400	1880	15.68	17.50	1.521	-	-	0.06	0.210	0.319
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 0	9400	1880	15.68	17.50	1.521	-	-	-0.03	0.202	0.307
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 0	9400	1880	23.61	25.00	1.377	-	-	0.09	0.160	0.220
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 0	9400	1880	23.61	25.00	1.377	-	-	0.06	0.093	0.128
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 0	9400	1880	23.61	25.00	1.377	-	-	0.06	0.162	0.223
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 0	9400	1880	23.61	25.00	1.377	-	-	0.02	0.117	0.161
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	18900	1880	23.60	25.00	1.380	-	-	0.06	0.173	0.239
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	18900	1880	22.76	24.00	1.330	-	-	-0.18	0.165	0.220
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	18900	1880	23.60	25.00	1.380	-	-	0.07	0.086	0.119
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	18900	1880	22.76	24.00	1.330	-	-	0.03	0.074	0.098
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	18900	1880	23.60	25.00	1.380	-	-	0.01	0.143	0.197
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	18900	1880	22.76	24.00	1.330	-	-	-0.13	0.155	0.206
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	18900	1880	23.60	25.00	1.380	-	-	-0.03	0.119	0.164
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	18900	1880	22.76	24.00	1.330	-	-	0.07	0.089	0.118
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	18900	1880	19.49	20.50	1.262	-	-	0.05	0.232	0.293
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	18900	1880	19.42	20.50	1.282	-	-	0.09	0.189	0.242
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 0	18900	1880	19.49	20.50	1.262	-	-	0.09	0.054	0.068
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 0	18900	1880	19.42	20.50	1.282	-	-	0.08	0.042	0.054
13	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	18900	1880	19.49	20.50	1.262	-	-	0.04	0.401	**0.506**
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 0	18900	1880	19.42	20.50	1.282	-	-	0.05	0.308	0.395
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 0	18900	1880	19.49	20.50	1.262	-	-	0.08	0.084	0.106
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 0	18900	1880	19.42	20.50	1.282	-	-	0.05	0.067	0.086
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	26340	1880	23.66	25.00	1.361	-	-	0.03	0.177	0.241
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	26340	1880	22.73	24.00	1.340	-	-	0.05	0.144	0.193
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	26340	1880	23.66	25.00	1.361	-	-	0.01	0.106	0.144
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	26340	1880	22.73	24.00	1.340	-	-	0.05	0.082	0.110
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	26340	1880	23.66	25.00	1.361	-	-	0.02	0.171	0.233
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	26340	1880	22.73	24.00	1.340	-	-	0.07	0.139	0.186
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	26340	1880	23.66	25.00	1.361	-	-	0.08	0.117	0.159
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	26340	1880	22.73	24.00	1.340	-	-	0.02	0.098	0.131
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	26340	1880	23.42	24.50	1.282	-	-	0.02	0.614	0.787
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	26340	1880	22.35	23.50	1.303	-	-	0.06	0.524	0.683
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 0	26340	1880	23.42	24.50	1.282	-	-	0.05	0.106	0.136
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 0	26340	1880	22.35	23.50	1.303	-	-	-0.03	0.088	0.115
14	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	26340	1880	23.42	24.50	1.282	-	-	0.02	0.761	**0.976**
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	26140	1860	23.31	24.50	1.315	-	-	0.02	0.738	0.971
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	26590	1905	23.27	24.50	1.327	-	-	0.08	0.732	0.972
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 0	26340	1880	22.35	23.50	1.303	-	-	0.07	0.608	0.792
	LTE Band 25	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 4	DSI 0	26340	1880	22.29	23.50	1.321	-	-	-0.09	0.584	0.772
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 0	26340	1880	23.42	24.50	1.282	-	-	-0.01	0.169	0.217

	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 0	26340	1880	22.35	23.50	1.303	-	-	-0.17	0.139	0.181
									2600MHz											
15	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	21100	2535	15.92	16.50	1.143	-	-	0.01	0.443	**0.506**
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 1	DSI 0	21100+21298	2535+2554.8	15.55	16.50	1.245	-	-	0.05	0.401	0.499
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	21100	2535	15.85	16.50	1.161	-	-	0.05	0.427	0.496
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	21100	2535	15.92	16.50	1.143	-	-	0.05	0.347	0.397
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	21100	2535	15.85	16.50	1.161	-	-	0.03	0.349	0.405
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	21100	2535	15.92	16.50	1.143	-	-	0.04	0.174	0.199
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	21100	2535	15.85	16.50	1.161	-	-	0.07	0.177	0.206
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	21100	2535	15.92	16.50	1.143	-	-	0.11	0.192	0.219
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	21100	2535	15.85	16.50	1.161	-	-	0.03	0.198	0.230
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	21100	2535	24.66	25.50	1.213	-	-	-0.04	0.187	0.227
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	21100	2535	23.75	24.50	1.189	-	-	0.08	0.145	0.172
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	21100	2535	24.66	25.50	1.213	-	-	-0.06	0.132	0.160
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	21100	2535	23.75	24.50	1.189	-	-	0.16	0.100	0.119
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	21100	2535	24.66	25.50	1.213	-	-	0.14	0.349	0.423
	LTE Band 7C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 2	DSI 0	21100+21298	2535+2554.8	24.22	25.50	1.343	-	-	0.09	0.311	0.418
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	21100	2535	23.75	24.50	1.189	-	-	0.03	0.267	0.317
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	21100	2535	24.66	25.50	1.213	-	-	-0.02	0.083	0.101
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	21100	2535	23.75	24.50	1.189	-	-	0.07	0.062	0.074
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	21100	2535	17.89	19.00	1.291	-	-	-0.16	0.382	0.493
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 3	DSI 0	21100+21298	2535+2554.8	17.41	19.00	1.442	-	-	0.05	0.326	0.470
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	21100	2535	17.78	19.00	1.324	-	-	0.02	0.364	0.482
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	21100	2535	17.89	19.00	1.291	-	-	0.16	0.134	0.173
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	21100	2535	17.78	19.00	1.324	-	-	0.13	0.138	0.183
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	21100	2535	17.89	19.00	1.291	-	-	0.1	0.279	0.360
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	21100	2535	17.78	19.00	1.324	-	-	0.06	0.286	0.379
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	21100	2535	17.89	19.00	1.291	-	-	0.15	0.082	0.106
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	21100	2535	17.78	19.00	1.324	-	-	0.03	0.080	0.106
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	21100	2535	18.83	19.50	1.167	-	-	0.05	0.417	0.487
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	DSI 0	21100+21298	2535+2554.8	18.40	19.50	1.288	-	-	-0.06	0.375	0.483
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	21100	2535	18.60	19.50	1.230	-	-	-0.02	0.395	0.486
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 0	21100	2535	18.83	19.50	1.167	-	-	0.06	0.067	0.078
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 0	21100	2535	18.60	19.50	1.230	-	-	-0.13	0.068	0.084
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	21100	2535	18.83	19.50	1.167	-	-	0.03	0.292	0.341
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 0	21100	2535	18.60	19.50	1.230	-	-	0.02	0.303	0.373
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 0	21100	2535	18.83	19.50	1.167	-	-	0.06	0.105	0.123
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 0	21100	2535	18.60	19.50	1.230	-	-	0.18	0.112	0.138
16	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	38000	2595	19.67	21.00	1.358	62.9	1.006	0.01	0.769	**1.051**
	LTE Band 38_ENDC	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	38000	2595	16.56	18.00	1.393	62.9	1.006	0.06	0.376	0.527
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 1	DSI 0	37901+38099	2585.1+2604.9	19.34	21.00	1.466	62.9	1.006	0.04	0.711	1.048
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	37850	2580	19.59	21.00	1.384	62.9	1.006	-0.19	0.738	1.027
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	38150	2610	19.50	21.00	1.413	62.9	1.006	0.04	0.739	1.050
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	38000	2595	19.56	21.00	1.393	62.9	1.006	-0.11	0.740	1.037
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	37850	2580	19.47	21.00	1.422	62.9	1.006	0.05	0.720	1.030
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	38150	2610	19.41	21.00	1.442	62.9	1.006	0.05	0.721	1.046
	LTE Band 38	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	38000	2595	19.51	21.00	1.409	62.9	1.006	0.03	0.725	1.028
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	38000	2595	19.67	21.00	1.358	62.9	1.006	0.02	0.602	0.823
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	37850	2580	19.59	21.00	1.384	62.9	1.006	-0.05	0.589	0.820
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	38150	2610	19.50	21.00	1.413	62.9	1.006	0.09	0.606	0.861
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	38000	2595	19.56	21.00	1.393	62.9	1.006	0.11	0.623	0.873
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	37850	2580	19.47	21.00	1.422	62.9	1.006	-0.17	0.598	0.856
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	38150	2610	19.41	21.00	1.442	62.9	1.006	0.03	0.610	0.885
	LTE Band 38_ENDC	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	38150	2610	16.51	18.00	1.409	62.9	1.006	0.06	0.298	0.422
	LTE Band 38	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	38000	2595	19.51	21.00	1.409	62.9	1.006	-0.14	0.599	0.849
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	38000	2595	19.67	21.00	1.358	62.9	1.006	0.09	0.294	0.402

	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	38000	2595	19.56	21.00	1.393	62.9	1.006	-0.14	0.304	0.426
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	38000	2595	19.67	21.00	1.358	62.9	1.006	0.02	0.370	0.506
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	38000	2595	19.56	21.00	1.393	62.9	1.006	0.02	0.378	0.530
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	40620	2593	19.83	20.50	1.167	62.9	1.006	0.18	0.720	0.845
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	39750	2506	19.69	20.50	1.205	62.9	1.006	0.18	0.668	0.810
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	40185	2549.5	19.73	20.50	1.194	62.9	1.006	-0.17	0.676	0.812
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	41055	2636.5	19.66	20.50	1.213	62.9	1.006	0.12	0.704	0.859
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	41490	2680	19.78	20.50	1.180	62.9	1.006	0.02	0.724	0.860
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	40620	2593	19.67	20.50	1.211	62.9	1.006	0.06	0.726	0.884
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	39750	2506	19.35	20.50	1.303	62.9	1.006	-0.04	0.670	0.878
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	40185	2549.5	19.44	20.50	1.276	62.9	1.006	-0.11	0.671	0.862
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	41055	2636.5	19.34	20.50	1.306	62.9	1.006	0.15	0.711	0.934
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	41490	2680	19.36	20.50	1.300	62.9	1.006	0.13	0.731	0.956
	LTE Band 41_ENDC	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	41490	2680	16.62	17.50	1.225	62.9	1.006	0.13	0.371	0.457
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	40620	2593	19.43	20.50	1.279	62.9	1.006	-0.1	0.718	0.924
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	40620	2593	19.83	20.50	1.167	62.9	1.006	0.08	0.760	0.892
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	39750	2506	19.69	20.50	1.205	62.9	1.006	0.05	0.589	0.714
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	40185	2549.5	19.73	20.50	1.194	62.9	1.006	-0.1	0.645	0.775
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	41055	2636.5	19.66	20.50	1.213	62.9	1.006	-0.16	0.772	0.942
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	41490	2680	19.78	20.50	1.180	62.9	1.006	-0.06	0.885	1.051
	LTE Band 41_ENDC	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	41490	2680	16.62	17.50	1.225	62.9	1.006	-0.06	0.421	0.519
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	40620	2593	19.67	20.50	1.211	62.9	1.006	0.02	0.766	0.933
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	39750	2506	19.35	20.50	1.303	62.9	1.006	0.04	0.602	0.789
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	40185	2549.5	19.44	20.50	1.276	62.9	1.006	-0.17	0.655	0.841
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	41055	2636.5	19.34	20.50	1.306	62.9	1.006	-0.11	0.792	1.041
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	41490	2680	19.36	20.50	1.300	62.9	1.006	0.07	0.794	1.039
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	40620	2593	19.43	20.50	1.279	62.9	1.006	-0.15	0.757	0.974
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	40620	2593	19.83	20.50	1.167	62.9	1.006	0.17	0.298	0.350
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	40620	2593	19.67	20.50	1.211	62.9	1.006	0.13	0.301	0.367
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	40620	2593	19.83	20.50	1.167	62.9	1.006	-0.07	0.438	0.514
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	40620	2593	19.67	20.50	1.211	62.9	1.006	0.01	0.432	0.526
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	DSI 0	40620	2593	25.38	25.50	1.028	62.9	1.006	0.04	0.101	0.104
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	DSI 0	40620	2593	24.46	24.50	1.009	62.9	1.006	-0.14	0.088	0.089
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	DSI 0	40620	2593	25.38	25.50	1.028	62.9	1.006	-0.15	0.059	0.061
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	DSI 0	40620	2593	24.46	24.50	1.009	62.9	1.006	0.12	0.048	0.049
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	DSI 0	40620	2593	25.38	25.50	1.028	62.9	1.006	0.06	0.198	0.205
	LTE Band 38C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 2	DSI 0	37901+38099	2585.1+2604.9	24.94	25.50	1.138	62.9	1.006	0.01	0.177	0.203
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	DSI 0	40620	2593	24.46	24.50	1.009	62.9	1.006	-0.08	0.159	0.161
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	DSI 0	40620	2593	25.38	25.50	1.028	62.9	1.006	0.01	0.068	0.070
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	DSI 0	40620	2593	24.46	24.50	1.009	62.9	1.006	0.07	0.057	0.058
17	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	40620	2593	21.33	22.50	1.309	62.9	1.006	0.06	0.802	**1.056**
	LTE Band 41_ENDC	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	40620	2593	18.36	19.50	1.300	62.9	1.006	0.01	0.394	0.515
	LTE Band 38C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	37901+38099	2585.1+2604.9	20.74	22.50	1.500	62.9	1.006	0.05	0.691	1.042
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	39750	2506	21.15	22.50	1.365	62.9	1.006	-0.16	0.691	0.949
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	40185	2549.5	21.20	22.50	1.349	62.9	1.006	-0.16	0.658	0.893
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	41055	2636.5	21.24	22.50	1.337	62.9	1.006	-0.02	0.671	0.902
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 0	41490	2680	21.22	22.50	1.343	62.9	1.006	-0.07	0.715	0.966
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	40620	2593	21.27	22.50	1.327	62.9	1.006	0.16	0.785	1.048
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	39750	2506	21.05	22.50	1.396	62.9	1.006	0.07	0.696	0.978
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	40185	2549.5	21.09	22.50	1.384	62.9	1.006	0.11	0.666	0.927
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	41055	2636.5	21.11	22.50	1.377	62.9	1.006	0.02	0.688	0.953
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 0	41490	2680	21.16	22.50	1.361	62.9	1.006	0.03	0.732	1.003
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 3	DSI 0	40620	2593	21.18	22.50	1.355	62.9	1.006	0.05	0.769	1.048
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 0	40620	2593	21.33	22.50	1.309	62.9	1.006	0.14	0.290	0.382
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 0	40620	2593	21.27	22.50	1.327	62.9	1.006	-0.08	0.290	0.387
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	40620	2593	21.33	22.50	1.309	62.9	1.006	0.16	0.774	1.019

	LTE Band 41_ENDC	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	40620	2593	18.36	19.50	1.300	62.9	1.006	0.05	0.380	0.497
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	39750	2506	21.15	22.50	1.365	62.9	1.006	0.11	0.669	0.918
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	40185	2549.5	21.20	22.50	1.349	62.9	1.006	0.07	0.697	0.946
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	41055	2636.5	21.24	22.50	1.337	62.9	1.006	0.01	0.729	0.980
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 0	41490	2680	21.22	22.50	1.343	62.9	1.006	0.12	0.748	1.010
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	40620	2593	21.27	22.50	1.327	62.9	1.006	-0.14	0.692	0.924
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	39750	2506	21.05	22.50	1.396	62.9	1.006	-0.03	0.679	0.954
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	40185	2549.5	21.09	22.50	1.384	62.9	1.006	0.07	0.704	0.980
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	41055	2636.5	21.11	22.50	1.377	62.9	1.006	-0.13	0.698	0.967
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 0	41490	2680	21.16	22.50	1.361	62.9	1.006	0.03	0.723	0.990
	LTE Band 41	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 3	DSI 0	40620	2593	21.18	22.50	1.355	62.9	1.006	0.03	0.690	0.941
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 0	40620	2593	21.33	22.50	1.309	62.9	1.006	0.1	0.148	0.195
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 0	40620	2593	21.27	22.50	1.327	62.9	1.006	0.03	0.157	0.210
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	40620	2593	21.46	21.70	1.057	62.9	1.006	0.04	0.774	0.823
	LTE Band 41_ENDC	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	40620	2593	19.39	19.70	1.074	62.9	1.006	0.04	0.466	0.503
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	DSI 0	37901+38099	2585.1+2604.9	20.82	21.70	1.225	62.9	1.006	0.09	0.645	0.795
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	39750	2506	21.16	21.70	1.132	62.9	1.006	0.01	0.624	0.711
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	40185	2549.5	21.41	21.70	1.069	62.9	1.006	-0.15	0.734	0.789
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	41055	2636.5	21.32	21.70	1.091	62.9	1.006	-0.12	0.698	0.766
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 0	41490	2680	21.19	21.70	1.125	62.9	1.006	0.09	0.645	0.730
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	40620	2593	21.42	21.70	1.067	62.9	1.006	0.04	0.725	0.778
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	39750	2506	21.30	21.70	1.096	62.9	1.006	0.04	0.626	0.691
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	40185	2549.5	21.18	21.70	1.127	62.9	1.006	-0.05	0.725	0.822
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	41055	2636.5	21.09	21.70	1.151	62.9	1.006	0.06	0.702	0.813
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 0	41490	2680	21.36	21.70	1.081	62.9	1.006	0.1	0.651	0.708
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 0	40620	2593	21.33	21.70	1.089	62.9	1.006	0.03	0.741	0.812
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 0	40620	2593	21.46	21.70	1.057	62.9	1.006	0.07	0.079	0.084
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 0	40620	2593	21.42	21.70	1.067	62.9	1.006	0.13	0.081	0.087
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 0	40620	2593	21.46	21.70	1.057	62.9	1.006	0.17	0.295	0.314
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 0	40620	2593	21.42	21.70	1.067	62.9	1.006	0.14	0.307	0.329
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 0	40620	2593	21.46	21.70	1.057	62.9	1.006	0.04	0.094	0.100
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 0	40620	2593	21.42	21.70	1.067	62.9	1.006	-0.15	0.093	0.100
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	507000	2535	18.64	19.00	1.086	-	-	0.03	0.787	0.855
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	507000	2535	18.59	19.00	1.099	-	-	-0.01	0.814	0.895
	FR1 n7_ENDC	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	507000	2535	15.98	16.50	1.127	-	-	0.06	0.452	0.509
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 0	507000	2535	18.57	19.00	1.104	-	-	0.09	0.805	0.889
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	507000	2535	18.64	19.00	1.086	-	-	-0.15	0.676	0.734
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	507000	2535	18.59	19.00	1.099	-	-	0.04	0.674	0.741
	FR1 n7_ENDC	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 0	507000	2535	15.98	16.50	1.127	-	-	0.04	0.382	0.431
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 0	507000	2535	18.64	19.00	1.086	-	-	0.02	0.336	0.365
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 0	507000	2535	18.59	19.00	1.099	-	-	0.06	0.304	0.334
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 0	507000	2535	18.64	19.00	1.086	-	-	0.02	0.390	0.424
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 0	507000	2535	18.59	19.00	1.099	-	-	-0.01	0.419	0.460
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 0	507000	2535	24.92	25.70	1.197	-	-	0.09	0.196	0.235
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 2	DSI 0	507000	2535	24.85	25.70	1.216	-	-	0.13	0.183	0.223
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 0	507000	2535	24.92	25.70	1.197	-	-	0.06	0.149	0.178
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 2	DSI 0	507000	2535	24.85	25.70	1.216	-	-	0.08	0.123	0.150
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 0	507000	2535	24.92	25.70	1.197	-	-	0.08	0.370	0.443
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 2	DSI 0	507000	2535	24.85	25.70	1.216	-	-	0.04	0.328	0.399
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 0	507000	2535	24.92	25.70	1.197	-	-	-0.03	0.088	0.105
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 2	DSI 0	507000	2535	24.85	25.70	1.216	-	-	0.07	0.080	0.097
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	507000	2535	19.61	21.00	1.377	-	-	-0.12	0.756	1.041
18	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	507000	2535	19.56	21.00	1.393	-	-	0.08	0.781	**1.088**
	FR1 n7_ENDC	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	507000	2535	16.69	18.00	1.352	-	-	0.03	0.389	0.526
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 3	DSI 0	507000	2535	19.49	21.00	1.416	-	-	-0.17	0.748	1.059
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI 0	507000	2535	19.61	21.00	1.377	-	-	0.16	0.249	0.343

	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 3	DSI 0	507000	2535	19.56	21.00	1.393	-	-	0.13	0.241	0.336
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI 0	507000	2535	19.61	21.00	1.377	-	-	0.19	0.439	0.605
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI 0	507000	2535	19.56	21.00	1.393	-	-	-0.07	0.693	0.965
	FR1 n7_ENDC	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI 0	507000	2535	16.69	18.00	1.352	-	-	0.02	0.343	0.464
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 3	DSI 0	507000	2535	19.49	21.00	1.416	-	-	-0.07	0.596	0.844
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI 0	507000	2535	19.61	21.00	1.377	-	-	0.06	0.151	0.208
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 3	DSI 0	507000	2535	19.56	21.00	1.393	-	-	-0.07	0.168	0.234
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 0	507000	2535	19.64	20.50	1.219	-	-	0.09	0.785	0.957
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 0	507000	2535	19.57	20.50	1.239	-	-	-0.04	0.875	1.084
	FR1 n7_ENDC	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 0	507000	2535	16.67	17.50	1.211	-	-	0.07	0.426	0.516
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 0	507000	2535	19.51	20.50	1.256	-	-	0.11	0.785	0.986
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 0	507000	2535	19.64	20.50	1.219	-	-	0.07	0.102	0.124
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 0	507000	2535	19.57	20.50	1.239	-	-	0.03	0.101	0.125
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 0	507000	2535	19.64	20.50	1.219	-	-	0.11	0.399	0.486
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 0	507000	2535	19.57	20.50	1.239	-	-	-0.09	0.425	0.526
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 0	507000	2535	19.64	20.50	1.219			0.08	0.161	0.196
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 0	507000	2535	19.57	20.50	1.239	-	-	0.08	0.166	0.206
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	519000	2595	17.41	18.00	1.146	-	-	0.02	0.681	0.780
	FR1 n38_ENDC	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	519000	2595	15.99	16.50	1.125	-	-	0.02	0.468	0.526
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	519000	2595	17.33	18.00	1.167	-	-	-0.01	0.665	0.776
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	519000	2595	17.41	18.00	1.146	-	-	0.05	0.537	0.615
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	519000	2595	17.33	18.00	1.167	-	-	0.05	0.539	0.629
	FR1 n38_ENDC	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	519000	2595	15.87	16.50	1.156	-	-	0.04	0.387	0.447
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	519000	2595	17.41	18.00	1.146	-	-	0.03	0.269	0.308
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	519000	2595	17.33	18.00	1.167	-	-	-0.08	0.265	0.309
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	519000	2595	17.41	18.00	1.146	-	-	-0.19	0.342	0.392
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	519000	2595	17.33	18.00	1.167	-	-	0.08	0.341	0.398
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	519000	2595	19.25	20.50	1.334	-	-	0.01	0.627	0.836
	FR1 n38_ENDC	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	519000	2595	17.36	18.50	1.300	-	-	0.01	0.401	0.521
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	519000	2595	19.21	20.50	1.346	-	-	-0.11	0.613	0.825
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	519000	2595	19.16	20.50	1.361	-	-	-0.11	0.603	0.821
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 0	519000	2595	19.25	20.50	1.334	-	-	0.05	0.199	0.265
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 0	519000	2595	19.21	20.50	1.346	-	-	0.08	0.213	0.287
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	519000	2595	19.25	20.50	1.334	-	-	0.02	0.513	0.684
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	519000	2595	19.21	20.50	1.346	-	-	-0.15	0.552	0.743
	FR1 n38_ENDC	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	519000	2595	17.25	18.50	1.334	-	-	0.01	0.344	0.459
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 0	519000	2595	19.25	20.50	1.334	-	-	0.09	0.109	0.145
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 0	519000	2595	19.21	20.50	1.346	-	-	-0.13	0.122	0.164
19	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	519000	2595	20.08	20.20	1.028	-	-	0.03	0.889	**0.914**
	FR1 n38_ENDC	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	519000	2595	17.43	17.70	1.064	-	-	0.03	0.489	0.520
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	519000	2595	20.04	20.20	1.038	-	-	-0.17	0.832	0.863
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	519000	2595	20.03	20.20	1.040	-	-	-0.12	0.843	0.877
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 0	519000	2595	20.08	20.20	1.028	-	-	0.13	0.091	0.094
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 0	519000	2595	20.04	20.20	1.038	-	-	0.09	0.085	0.088
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 0	519000	2595	20.08	20.20	1.028	-	-	0.04	0.338	0.347
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 0	519000	2595	20.04	20.20	1.038	-	-	0.12	0.300	0.311
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 0	519000	2595	20.08	20.20	1.028	-	-	-0.17	0.135	0.139
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 0	519000	2595	20.04	20.20	1.038	-	-	-0.07	0.124	0.129
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	518598	2592.99	17.97	19.00	1.268	-	-	-0.01	0.565	0.716
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	518598	2592.99	17.94	19.00	1.276	-	-	0.14	0.606	0.774
	FR1 n41_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	518598	2592.99	15.07	16.00	1.239	-	-	0.14	0.312	0.387
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	518598	2592.99	17.97	19.00	1.268	-	-	0.07	0.645	0.818
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	518598	2592.99	17.94	19.00	1.276	-	-	-0.1	0.663	0.846
20	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	518598	2592.99	17.88	19.00	1.294	-	-	0.07	0.798	**1.033**
	FR1 n41_ENDC	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	518598	2592.99	14.96	16.00	1.271	-	-	0.07	0.423	0.537
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	518598	2592.99	17.97	19.00	1.268	-	-	-0.08	0.244	0.309

	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	518598	2592.99	17.94	19.00	1.276	-	-	0.04	0.290	0.370
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	518598	2592.99	17.97	19.00	1.268	-	-	0.06	0.347	0.440
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	518598	2592.99	17.94	19.00	1.276	-	-	0.04	0.417	0.532
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 0	518598	2592.99	25.38	25.70	1.076	-	-	-0.11	0.160	0.172
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 2	DSI 0	518598	2592.99	25.35	25.70	1.084	-	-	0.06	0.162	0.176
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 0	518598	2592.99	25.38	25.70	1.076	-	-	0.02	0.120	0.129
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 2	DSI 0	518598	2592.99	25.35	25.70	1.084	-	-	-0.11	0.094	0.102
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 0	518598	2592.99	25.38	25.70	1.076	-	-	0.07	0.306	0.329
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 2	DSI 0	518598	2592.99	25.35	25.70	1.084	-	-	-0.05	0.308	0.334
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 0	518598	2592.99	25.38	25.70	1.076	-	-	0.16	0.075	0.081
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 2	DSI 0	518598	2592.99	25.35	25.70	1.084	-	-	0.18	0.083	0.090
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	518598	2592.99	18.52	20.00	1.406	-	-	-0.19	0.686	0.965
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	518598	2592.99	18.48	20.00	1.419	-	-	0.05	0.721	1.023
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	518598	2592.99	15.34	17.00	1.466	-	-	0.03	0.359	0.526
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 0	518598	2592.99	18.36	20.00	1.459	-	-	0.14	0.701	1.023
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 0	518598	2592.99	18.52	20.00	1.406	-	-	0.03	0.198	0.278
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 0	518598	2592.99	18.48	20.00	1.419	-	-	0.03	0.261	0.370
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	518598	2592.99	18.52	20.00	1.406	-	-	0.09	0.625	0.879
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	518598	2592.99	18.48	20.00	1.419	-	-	0.02	0.692	0.982
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	518598	2592.99	18.36	20.00	1.459	-	-	0.15	0.685	0.999
	FR1 n41_ENDC	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 0	518598	2592.99	15.31	17.00	1.476	-	-	0.02	0.347	0.512
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 0	518598	2592.99	18.52	20.00	1.406	-	-	-0.07	0.118	0.166
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 0	518598	2592.99	18.48	20.00	1.419	-	-	-0.19	0.152	0.216
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.42	19.70	1.067	-	-	0.07	0.849	0.906
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.41	19.70	1.069	-	-	0.01	0.956	1.022
	FR1 n41_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	518598	2592.99	16.35	16.70	1.084	-	-	0.07	0.468	0.507
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.35	19.70	1.084	-	-	0.04	0.743	0.805
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 0	518598	2592.99	19.42	19.70	1.067	-	-	0.04	0.110	0.117
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 0	518598	2592.99	19.41	19.70	1.069	-	-	0.06	0.108	0.115
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.42	19.70	1.067	-	-	0.08	0.422	0.450
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.41	19.70	1.069	-	-	-0.12	0.365	0.390
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 0	518598	2592.99	19.42	19.70	1.067	-	-	0.02	0.171	0.182
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 0	518598	2592.99	19.41	19.70	1.069	-	-	-0.06	0.150	0.160
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 0	42590	3500	20.69	21.00	1.074	62.9	1.006	0.16	0.401	0.433
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 0	42590	3500	20.47	21.00	1.130	62.9	1.006	-0.01	0.349	0.397
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 0	42590	3500	20.69	21.00	1.074	62.9	1.006	0.04	0.575	0.621
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 0	42590	3500	20.47	21.00	1.130	62.9	1.006	0.03	0.528	0.600
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 0	42590	3500	20.69	21.00	1.074	62.9	1.006	-0.17	0.551	0.595
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 0	42590	3500	20.47	21.00	1.130	62.9	1.006	0.17	0.524	0.596
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	42590	3500	20.69	21.00	1.074	62.9	1.006	0.03	0.884	0.955
21	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	42190	3460	20.60	21.00	1.096	62.9	1.006	0.07	0.967	**1.067**
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	42990	3540	20.54	21.00	1.112	62.9	1.006	0.07	0.798	0.892
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	42590	3500	20.47	21.00	1.130	62.9	1.006	0.11	0.887	1.008
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	42190	3460	20.19	21.00	1.205	62.9	1.006	0.03	0.848	1.028
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	42990	3540	20.34	21.00	1.164	62.9	1.006	0.06	0.815	0.954
	LTE Band 42	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 5	DSI 0	42590	3500	20.21	21.00	1.199	62.9	1.006	0.04	0.878	1.059
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	42590	3500	20.02	21.50	1.406	62.9	1.006	0.04	0.528	0.747
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	42190	3460	19.86	21.50	1.459	62.9	1.006	-0.05	0.555	0.814
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	42990	3540	19.91	21.50	1.442	62.9	1.006	0.02	0.495	0.718
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	42590	3500	19.87	21.50	1.455	62.9	1.006	0.1	0.523	0.766
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	42190	3460	19.67	21.50	1.524	62.9	1.006	0.12	0.560	0.859
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	42990	3540	19.62	21.50	1.542	62.9	1.006	-0.14	0.505	0.783
	LTE Band 42	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	42590	3500	19.84	21.50	1.466	62.9	1.006	-0.07	0.526	0.776
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	42590	3500	20.02	21.50	1.406	62.9	1.006	-0.18	0.659	0.932
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	42190	3460	19.86	21.50	1.459	62.9	1.006	0.13	0.677	0.994

	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	42990	3540	19.91	21.50	1.442	62.9	1.006	0.03	0.605	0.878
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.1	0.651	0.953
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	42190	3460	19.67	21.50	1.524	62.9	1.006	-0.04	0.689	1.056
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	42990	3540	19.62	21.50	1.542	62.9	1.006	0.04	0.643	0.997
	LTE Band 42	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	42590	3500	19.84	21.50	1.466	62.9	1.006	0.04	0.654	0.964
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	42590	3500	20.02	21.50	1.406	62.9	1.006	0.14	0.208	0.294
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	42590	3500	19.87	21.50	1.455	62.9	1.006	0.13	0.204	0.299
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	42590	3500	20.02	21.50	1.406	62.9	1.006	-0.03	0.288	0.407
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	42590	3500	19.87	21.50	1.455	62.9	1.006	0.07	0.295	0.432
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 0	42590	3500	17.94	18.50	1.138	62.9	1.006	0.15	0.131	0.150
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 0	42590	3500	17.66	18.50	1.213	62.9	1.006	0.06	0.137	0.167
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 0	42590	3500	17.94	18.50	1.138	62.9	1.006	-0.09	0.101	0.116
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 0	42590	3500	17.66	18.50	1.213	62.9	1.006	0.18	0.109	0.133
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	42590	3500	17.94	18.50	1.138	62.9	1.006	-0.15	0.690	0.790
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	42190	3460	17.84	18.50	1.164	62.9	1.006	0.05	0.656	0.768
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	42990	3540	17.66	18.50	1.213	62.9	1.006	0.01	0.786	0.959
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	42590	3500	17.66	18.50	1.213	62.9	1.006	0.17	0.621	0.758
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	42190	3460	17.63	18.50	1.222	62.9	1.006	-0.04	0.501	0.616
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	42990	3540	17.52	18.50	1.253	62.9	1.006	-0.08	0.717	0.904
	LTE Band 42	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 6	DSI 0	42590	3500	17.62	18.50	1.225	62.9	1.006	-0.02	0.615	0.758
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 0	42590	3500	17.94	18.50	1.138	62.9	1.006	0.17	0.281	0.322
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 0	42590	3500	17.66	18.50	1.213	62.9	1.006	0.05	0.281	0.343
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 0	42590	3500	23.55	24.50	1.245	62.9	1.006	0.07	0.444	0.556
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 0	42590	3500	22.50	23.50	1.259	62.9	1.006	-0.11	0.345	0.437
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 0	42590	3500	23.55	24.50	1.245	62.9	1.006	0.04	0.111	0.139
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 0	42590	3500	22.50	23.50	1.259	62.9	1.006	-0.15	0.093	0.118
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 0	42590	3500	23.55	24.50	1.245	62.9	1.006	-0.13	0.177	0.222
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 0	42590	3500	22.50	23.50	1.259	62.9	1.006	-0.08	0.138	0.175
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 0	42590	3500	23.55	24.50	1.245	62.9	1.006	0.12	0.056	0.070
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 0	42590	3500	22.50	23.50	1.259	62.9	1.006	0.12	0.044	0.056
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 0	55830	3609	20.29	20.50	1.050	62.9	1.006	0.05	0.283	0.299
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 0	55830	3609	20.11	20.50	1.094	62.9	1.006	0.06	0.258	0.284
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 0	55830	3609	20.29	20.50	1.050	62.9	1.006	0.06	0.414	0.437
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 0	55830	3609	20.11	20.50	1.094	62.9	1.006	0.09	0.384	0.423
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 0	55830	3609	20.29	20.50	1.050	62.9	1.006	0.06	0.502	0.530
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 0	55830	3609	20.11	20.50	1.094	62.9	1.006	0.08	0.400	0.440
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	55830	3609	20.29	20.50	1.050	62.9	1.006	-0.01	0.753	0.795
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	55340	3560	20.14	20.50	1.086	62.9	1.006	0.1	0.593	0.648
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	56150	3641	20.03	20.50	1.114	62.9	1.006	-0.07	0.569	0.638
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	56640	3690	20.16	20.50	1.081	62.9	1.006	0.05	0.604	0.657
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	55830	3609	20.11	20.50	1.094	62.9	1.006	0.05	0.577	0.635
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	55340	3560	19.96	20.50	1.132	62.9	1.006	-0.04	0.588	0.670
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	56150	3641	20.01	20.50	1.119	62.9	1.006	-0.03	0.584	0.658
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 0	56640	3690	19.86	20.50	1.159	62.9	1.006	0.07	0.604	0.704
	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 5	DSI 0	55830	3609	20.02	20.50	1.117	62.9	1.006	0.04	0.571	0.642
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	55830	3609	20.22	21.50	1.343	62.9	1.006	0.15	0.619	0.836
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	55340	3560	20.07	21.50	1.390	62.9	1.006	-0.12	0.640	0.895
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	56150	3641	20.10	21.50	1.380	62.9	1.006	-0.12	0.577	0.801
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 0	56640	3690	20.13	21.50	1.371	62.9	1.006	-0.08	0.522	0.720
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	55830	3609	20.02	21.50	1.406	62.9	1.006	0.18	0.612	0.866
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	55340	3560	19.78	21.50	1.486	62.9	1.006	0.05	0.635	0.949
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	56150	3641	19.91	21.50	1.442	62.9	1.006	0.16	0.588	0.853
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 0	56640	3690	19.85	21.50	1.462	62.9	1.006	0.05	0.514	0.756
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 0	55830	3609	19.92	21.50	1.439	62.9	1.006	0.06	0.605	0.876
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	55830	3609	20.22	21.50	1.343	62.9	1.006	0.08	0.750	1.013
22	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	55340	3560	20.07	21.50	1.390	62.9	1.006	-0.02	0.765	**1.070**

LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	56150	3641	20.10	21.50	1.380	62.9	1.006	0.08	0.691	0.960
LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 0	56640	3690	20.13	21.50	1.371	62.9	1.006	-0.03	0.624	0.861
LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	55830	3609	20.02	21.50	1.406	62.9	1.006	-0.03	0.736	1.041
LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	55340	3560	19.78	21.50	1.486	62.9	1.006	-0.04	0.712	1.064
LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	56150	3641	19.91	21.50	1.442	62.9	1.006	-0.06	0.692	1.004
LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 0	56640	3690	19.85	21.50	1.462	62.9	1.006	0.02	0.609	0.896
LTE Band 48	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 0	55830	3609	19.92	21.50	1.439	62.9	1.006	-0.14	0.713	1.032
LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 0	55830	3609	20.22	21.50	1.343	62.9	1.006	0.07	0.284	0.384
LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 0	55830	3609	20.02	21.50	1.406	62.9	1.006	0.07	0.280	0.396
LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 0	55830	3609	20.22	21.50	1.343	62.9	1.006	0.02	0.370	0.500
LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 0	55830	3609	20.02	21.50	1.406	62.9	1.006	-0.04	0.365	0.516
LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 0	55830	3609	16.99	17.50	1.125	62.9	1.006	0.03	0.163	0.184
LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 0	55830	3609	16.81	17.50	1.172	62.9	1.006	0.09	0.158	0.186
LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 0	55830	3609	16.99	17.50	1.125	62.9	1.006	0.16	0.147	0.166
LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 0	55830	3609	16.81	17.50	1.172	62.9	1.006	0.12	0.139	0.164
LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	55830	3609	16.99	17.50	1.125	62.9	1.006	-0.05	0.761	0.861
LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	55340	3560	16.73	17.50	1.194	62.9	1.006	-0.09	0.766	0.920
LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	56150	3641	16.88	17.50	1.153	62.9	1.006	0.06	0.689	0.799
LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 0	56640	3690	16.79	17.50	1.178	62.9	1.006	0.05	0.589	0.698
LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	55830	3609	16.81	17.50	1.172	62.9	1.006	0.03	0.790	0.932
LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	55340	3560	16.50	17.50	1.259	62.9	1.006	0.08	0.805	1.020
LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	56150	3641	16.61	17.50	1.227	62.9	1.006	0.02	0.732	0.904
LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 0	56640	3690	16.59	17.50	1.233	62.9	1.006	0.06	0.590	0.732
LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 6	DSI 0	55830	3609	16.60	17.50	1.230	62.9	1.006	0.02	0.799	0.989
LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 0	55830	3609	16.99	17.50	1.125	62.9	1.006	-0.18	0.358	0.405
LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 0	55830	3609	16.81	17.50	1.172	62.9	1.006	0.09	0.364	0.429
LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 0	55830	3609	23.63	24.50	1.222	62.9	1.006	0.04	0.162	0.199
LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 0	55830	3609	22.62	23.50	1.225	62.9	1.006	0.03	0.125	0.154
LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 0	55830	3609	23.63	24.50	1.222	62.9	1.006	0.08	0.060	0.074
LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 0	55830	3609	22.62	23.50	1.225	62.9	1.006	-0.06	0.043	0.053
LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 0	55830	3609	23.63	24.50	1.222	62.9	1.006	-0.07	0.085	0.104
LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 0	55830	3609	22.62	23.50	1.225	62.9	1.006	-0.15	0.079	0.097
LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 0	55830	3609	23.63	24.50	1.222	62.9	1.006	0.08	0.047	0.058
LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 0	55830	3609	22.62	23.50	1.225	62.9	1.006	-0.1	0.056	0.069
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	656000	3840	17.12	18.50	1.374	-	-	-0.18	0.404	0.555
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	656000	3840	17.04	18.50	1.400	-	-	0.09	0.403	0.564
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	656000	3840	17.12	18.50	1.374	-	-	0.04	0.496	0.682
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	656000	3840	17.04	18.50	1.400	-	-	0.16	0.456	0.638
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	656000	3840	17.12	18.50	1.374	-	-	-0.14	0.186	0.256
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	656000	3840	17.04	18.50	1.400	-	-	0.15	0.180	0.252
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	656000	3840	17.12	18.50	1.374	-	-	0.11	0.226	0.311
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	656000	3840	17.04	18.50	1.400	-	-	0.04	0.221	0.309
FR1 n77_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	656000	3840	20.22	21.50	1.343	50	1.000	-0.08	0.540	0.725
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.25	18.50	1.334	-	-	-0.14	0.596	0.795
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.17	18.50	1.358	-	-	0.08	0.576	0.782
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.25	18.50	1.334	-	-	-0.14	0.731	0.975
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.17	18.50	1.358	-	-	-0.02	0.703	0.955
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.19	18.50	1.352	-	-	0.08	0.643	0.869
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.25	18.50	1.334	-	-	0.05	0.208	0.277
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.17	18.50	1.358	-	-	0.07	0.236	0.321
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.25	18.50	1.334	-	-	0.04	0.266	0.355
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.17	18.50	1.358	-	-	0.1	0.303	0.412
FR1 n77_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	20.45	21.50	1.274	50	1.000	-0.01	0.770	0.981
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	656000	3840	16.69	17.50	1.205	-	-	-0.05	0.326	0.393
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	656000	3840	16.62	17.50	1.225	-	-	-0.04	0.366	0.448
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	656000	3840	16.69	17.50	1.205	-	-	0.03	0.400	0.482

	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	656000	3840	16.62	17.50	1.225	-	-	-0.1	0.438	0.536
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	656000	3840	16.69	17.50	1.205	-	-	0.04	0.538	0.648
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	656000	3840	16.62	17.50	1.225	-	-	-0.03	0.591	0.724
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	656000	3840	16.69	17.50	1.205	-	-	0.07	0.687	0.828
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	656000	3840	16.62	17.50	1.225	-	-	0.05	0.748	0.916
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	656000	3840	16.41	17.50	1.285	-	-	0.05	0.685	0.880
	FR1 n77_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	656000	3840	19.64	20.50	1.219	50	1.000	-0.08	0.805	0.981
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.82	17.50	1.169	-	-	0.03	0.269	0.315
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.73	17.50	1.194	-	-	-0.07	0.271	0.324
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.82	17.50	1.169	-	-	-0.03	0.301	0.352
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.73	17.50	1.194	-	-	0.02	0.314	0.375
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.82	17.50	1.169	-	-	-0.19	0.433	0.506
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.73	17.50	1.194	-	-	0.08	0.452	0.540
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.82	17.50	1.169	-	-	0.18	0.565	0.661
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.73	17.50	1.194	-	-	-0.04	0.678	0.810
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	175	16.67	17.50	-	-	0.01	0.668	0.809
	FR1 n77_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	20.09	20.50	1.099	50	1.000	-0.06	0.801	0.880
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	656000	3840	15.30	16.50	1.318	-	-	0.01	0.141	0.186
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	656000	3840	15.28	16.50	1.324	-	-	-0.03	0.125	0.166
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	656000	3840	15.30	16.50	1.318	-	-	0.08	0.103	0.136
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	656000	3840	15.28	16.50	1.324	-	-	-0.05	0.100	0.132
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	656000	3840	15.30	16.50	1.318	-	-	-0.17	0.686	0.904
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	656000	3840	15.28	16.50	1.324	-	-	-0.03	0.570	0.755
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	656000	3840	15.25	16.50	1.334	-	-	0.19	0.633	0.844
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	656000	3840	15.30	16.50	1.318	-	-	-0.13	0.303	0.399
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	656000	3840	15.28	16.50	1.324	-	-	0.08	0.285	0.377
	FR1 n77_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	656000	3840	18.06	19.50	1.393	50	1.000	-0.01	0.710	0.989
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	633334	3500.01	15.22	16.50	1.343	-	-	0.17	0.111	0.149
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	633334	3500.01	15.15	16.50	1.365	-	-	0.16	0.160	0.218
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	633334	3500.01	15.22	16.50	1.343	-	-	0.05	0.086	0.115
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	633334	3500.01	15.15	16.50	1.365	-	-	-0.02	0.109	0.149
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	15.22	16.50	1.343	-	-	0.02	0.631	0.847
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	15.15	16.50	1.365	-	-	-0.18	0.728	0.993
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	15.12	16.50	1.374	-	-	0.03	0.718	0.987
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	633334	3500.01	15.22	16.50	1.343	-	-	0.07	0.265	0.356
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	633334	3500.01	15.15	16.50	1.365	-	-	-0.11	0.299	0.408
23	FR1 n77_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	18.20	19.50	1.349	50	1.000	-0.02	0.771	**1.040**
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	656000	3840	20.81	22.50	1.476	-	-	0.04	0.135	0.199
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	656000	3840	20.76	22.50	1.493	-	-	0.16	0.139	0.207
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	656000	3840	20.81	22.50	1.476	-	-	0.17	0.110	0.162
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	656000	3840	20.76	22.50	1.493	-	-	-0.07	0.107	0.160
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	656000	3840	20.81	22.50	1.476	-	-	-0.11	0.073	0.108
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	656000	3840	20.76	22.50	1.493	-	-	0.08	0.087	0.130
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	656000	3840	20.81	22.50	1.476	-	-	0.01	0.052	0.077
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	656000	3840	20.76	22.50	1.493	-	-	0.09	0.052	0.078
	FR1 n77_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	656000	3840	23.77	25.50	1.489	50	1.000	0.15	0.152	0.226
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	20.98	22.50	1.419	-	-	-0.14	0.435	0.617
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	20.93	22.50	1.435	-	-	-0.04	0.427	0.613
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	633334	3500.01	20.98	22.50	1.419	-	-	0.04	0.099	0.140
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	633334	3500.01	20.93	22.50	1.435	-	-	0.02	0.103	0.148
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	633334	3500.01	20.98	22.50	1.419	-	-	0.02	0.196	0.278
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	633334	3500.01	20.93	22.50	1.435	-	-	0.14	0.191	0.274
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	633334	3500.01	20.98	22.50	1.419	-	-	0.15	0.047	0.067
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	633334	3500.01	20.93	22.50	1.435	-	-	-0.07	0.057	0.082
	FR1 n77_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	23.83	25.50	1.469	50	1.000	0.06	0.456	0.670
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	650000	3750	17.15	18.00	1.216	-	-	0.07	0.719	0.874

	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	650000	3750	17.10	18.00	1.230	-	-	0.15	0.627	0.771
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	650000	3750	17.00	18.00	1.259	-	-	-0.04	0.533	0.671
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	650000	3750	17.15	18.00	1.216	-	-	-0.04	0.655	0.797
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	650000	3750	17.10	18.00	1.230	-	-	0.06	0.618	0.760
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	650000	3750	17.15	18.00	1.216	-	-	0.06	0.293	0.356
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	650000	3750	17.10	18.00	1.230	-	-	-0.01	0.299	0.368
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	650000	3750	17.15	18.00	1.216	-	-	-0.09	0.313	0.381
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	650000	3750	17.10	18.00	1.230	-	-	0.08	0.324	0.399
24	FR1 n78_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	650000	3750	20.01	21.00	1.256	50	1.000	-0.07	0.755	**0.948**
	FR1 n78_ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	650000	3750	17.43	18.50	1.279	50	1.000	-0.07	0.413	0.528
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.44	18.00	1.138	-	-	-0.07	0.585	0.666
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.40	18.00	1.148	-	-	0.08	0.558	0.641
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.44	18.00	1.138	-	-	-0.06	0.784	0.892
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.40	18.00	1.148	-	-	0.1	0.673	0.773
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.12	18.00	1.225	-	-	0.13	0.685	0.839
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.44	18.00	1.138	-	-	0.04	0.236	0.268
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 0	633334	3500.01	17.40	18.00	1.148	-	-	0.1	0.225	0.258
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.44	18.00	1.138	-	-	0.01	0.300	0.341
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.40	18.00	1.148	-	-	0.02	0.287	0.330
	FR1 n78_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	20.29	21.00	1.178	50	1.000	-0.04	0.788	0.928
	FR1 n78_ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 0	633334	3500.01	17.71	18.50	1.199	50	1.000	0.17	0.440	0.528
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	650000	3750	16.32	17.00	1.169	-	-	0.05	0.372	0.435
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	650000	3750	16.28	17.00	1.180	-	-	0.15	0.409	0.483
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	650000	3750	16.32	17.00	1.169	-	-	-0.16	0.477	0.558
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	650000	3750	16.28	17.00	1.180	-	-	0.05	0.501	0.591
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	650000	3750	16.32	17.00	1.169	-	-	0.05	0.604	0.706
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	650000	3750	16.28	17.00	1.180	-	-	0.06	0.630	0.744
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	650000	3750	16.32	17.00	1.169	-	-	-0.17	0.703	0.822
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	650000	3750	16.28	17.00	1.180	-	-	0.07	0.755	0.891
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	650000	3750	16.22	17.00	1.197	-	-	0.16	0.711	0.851
	FR1 n78_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	650000	3750	19.30	20.00	1.175	50	1.000	-0.05	0.788	0.926
	FR1 n78_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	650000	3750	16.66	17.50	1.213	50	1.000	0.04	0.423	0.513
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.28	17.00	1.180	-	-	-0.03	0.322	0.380
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.12	17.00	1.225	-	-	0.09	0.312	0.382
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.28	17.00	1.180	-	-	0.03	0.388	0.458
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.12	17.00	1.225	-	-	0.07	0.396	0.485
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.28	17.00	1.180	-	-	0.17	0.577	0.681
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 0	633334	3500.01	16.12	17.00	1.225	-	-	0.17	0.561	0.687
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.28	17.00	1.180	-	-	0.08	0.713	0.842
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.12	17.00	1.225	-	-	0.03	0.662	0.811
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.08	17.00	1.236	-	-	0.03	0.649	0.802
	FR1 n78_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	19.39	20.00	1.151	50	1.000	0.01	0.751	0.864
	FR1 n78_ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	633334	3500.01	16.75	17.50	1.189	50	1.000	-0.06	0.409	0.486
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	650000	3750	14.66	15.50	1.213	-	-	0.09	0.120	0.146
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	650000	3750	14.57	15.50	1.239	-	-	0.15	0.109	0.135
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	650000	3750	14.66	15.50	1.213	-	-	0.06	0.093	0.113
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	650000	3750	14.57	15.50	1.239	-	-	-0.1	0.085	0.105
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	650000	3750	14.66	15.50	1.213	-	-	-0.15	0.682	0.828
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	650000	3750	14.57	15.50	1.239	-	-	0.17	0.608	0.753
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	650000	3750	14.54	15.50	1.247	-	-	0.04	0.631	0.787
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	650000	3750	14.66	15.50	1.213	-	-	0.01	0.267	0.324
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	650000	3750	14.57	15.50	1.239	-	-	0.07	0.245	0.304
	FR1 n78_PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	650000	3750	17.63	18.50	1.222	50	1.000	-0.08	0.691	0.844
	FR1 n78_ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	650000	3750	15.56	16.50	1.242	50	1.000	0.01	0.429	0.533
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	633334	3500.01	14.69	15.50	1.205	-	-	-0.02	0.100	0.121
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 0	633334	3500.01	14.63	15.50	1.222	-	-	-0.14	0.134	0.164

	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	633334	3500.01	14.69	15.50	1.205	-	-	0.03	0.064	0.077
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 0	633334	3500.01	14.63	15.50	1.222	-	-	0.08	0.088	0.108
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	14.69	15.50	1.205	-	-	0.04	0.432	0.521
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	14.63	15.50	1.222	-	-	0.05	0.575	0.703
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	633334	3500.01	14.69	15.50	1.205	-	-	0.16	0.176	0.212
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 0	633334	3500.01	14.63	15.50	1.222	-	-	0.06	0.264	0.323
	FR1 n78_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	17.77	18.50	1.183	50	1.000	0.05	0.627	0.742
	FR1 n78_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 0	633334	3500.01	15.70	16.50	1.202	50	1.000	-0.09	0.353	0.424
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	650000	3750	21.99	23.00	1.262	-	-	-0.13	0.218	0.275
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	650000	3750	21.94	23.00	1.276	-	-	-0.13	0.395	0.504
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	650000	3750	21.99	23.00	1.262	-	-	-0.14	0.047	0.059
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	650000	3750	21.94	23.00	1.276	-	-	-0.03	0.095	0.121
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	650000	3750	21.99	23.00	1.262	-	-	0.07	0.113	0.143
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	650000	3750	21.94	23.00	1.276	-	-	0.07	0.198	0.253
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	650000	3750	21.99	23.00	1.262	-	-	0.02	0.037	0.047
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	650000	3750	21.94	23.00	1.276	-	-	-0.16	0.061	0.078
	FR1 n78_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	650000	3750	24.88	26.00	1.294	50	1.000	0.06	0.404	0.523
	FR1 n78_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	650000	3750	22.98	24.00	1.265	50	1.000	0.06	0.255	0.323
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	22.17	23.00	1.211	-	-	0.02	0.502	0.608
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	22.13	23.00	1.222	-	-	-0.11	0.607	0.742
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	633334	3500.01	22.17	23.00	1.211	-	-	0.03	0.121	0.146
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 0	633334	3500.01	22.13	23.00	1.222	-	-	0.11	0.128	0.156
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	633334	3500.01	22.17	23.00	1.211	-	-	-0.06	0.243	0.294
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 0	633334	3500.01	22.13	23.00	1.222	-	-	0.16	0.228	0.279
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	633334	3500.01	22.17	23.00	1.211	-	-	0.12	0.062	0.075
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 0	633334	3500.01	22.13	23.00	1.222	-	-	-0.06	0.069	0.084
	FR1 n78_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	24.71	26.00	1.346	50	1.000	-0.03	0.603	0.812
	FR1 n78_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 0	633334	3500.01	22.74	24.00	1.337	50	1.000	0.01	0.375	0.501

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 17+6(6)	Standalone	1	2412	15.83	17.00	1.309	98.47	1.016	0.06	0.287	0.382
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 17+6(6)	Standalone	1	2412	15.83	17.00	1.309	98.47	1.016	0.11	0.306	0.407
25	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+6(6)	Standalone	1	2412	15.83	17.00	1.309	98.47	1.016	-0.11	0.758	**1.008**
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 17+6(6)	Standalone	1	2412	15.83	17.00	1.309	98.47	1.016	0.07	0.273	0.363
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+6(17)	Standalone	11	2462	15.71	17.00	1.346	98.47	1.016	0.02	0.682	0.933
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+6(6)	DBS only	1	2412	14.31	15.50	1.315	98.47	1.016	-0.09	0.577	0.771
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 17+6(6)	nonDBS&DBS	1	2412	9.28	10.50	1.324	98.47	1.016	-0.04	0.067	0.090
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 17+6(6)	non DBS&DBS	1	2412	9.28	10.50	1.324	98.47	1.016	-0.07	0.072	0.097
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 17+6(6)	non DBS&DBS	1	2412	9.28	10.50	1.324	98.47	1.016	0.08	0.168	0.226
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 17+6(6)	non DBS&DBS	1	2412	9.28	10.50	1.324	98.47	1.016	-0.01	0.064	0.086
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	-0.05	0.215	0.290
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.09	0.235	0.317
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.04	0.213	0.288
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.03	0.252	0.340
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 17	Simultaneous	39	2441	9.58	10.50	1.236	76.8	1.085	0.02	0.058	0.078
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 17	Simultaneous	39	2441	9.58	10.50	1.236	76.8	1.085	0.05	0.063	0.084
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 17	Simultaneous	39	2441	9.58	10.50	1.236	76.8	1.085	-0.17	0.057	0.076
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 17	Simultaneous	39	2441	9.58	10.50	1.236	76.8	1.085	0.03	0.068	0.091
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	-0.05	0.096	0.137
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	-0.16	0.057	0.081
26	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	0.07	0.474	**0.676**
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	0.08	0.134	0.191
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 6	Simultaneous	39	2441	8.89	10.00	1.291	76.8	1.085	0.16	0.029	0.041
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 6	Simultaneous	39	2441	8.89	10.00	1.291	76.8	1.085	-0.17	0.017	0.024
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 6	Simultaneous	39	2441	8.89	10.00	1.291	76.8	1.085	-0.12	0.145	0.203
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 6	Simultaneous	39	2441	8.89	10.00	1.291	76.8	1.085	0.03	0.041	0.057
5000MHz																
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+18	Standalone	54	5270	18.09	19.50	1.385	91.43	1.094	-0.03	0.330	0.500
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+18	Standalone	54	5270	18.09	19.50	1.385	91.43	1.094	-0.16	0.365	0.553
27	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18	Standalone	54	5270	18.09	19.50	1.385	91.43	1.094	0.04	0.666	**1.009**
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18(5)	Standalone	62	5310	14.49	15.50	1.262	91.43	1.094	0.07	0.555	0.766
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18	Standalone	54	5270	18.09	19.50	1.385	91.43	1.094	0.02	0.580	0.879
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18(5)	Standalone	62	5310	14.49	15.50	1.262	91.43	1.094	-0.08	0.655	0.904
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18	DBS only	54	5270	16.67	18.00	1.358	91.43	1.094	-0.13	0.516	0.767
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+18	nonDBS&DBS	54	5270	11.20	12.50	1.350	91.43	1.094	0.02	0.081	0.120
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+18	non DBS&DBS	54	5270	11.20	12.50	1.350	91.43	1.094	0.03	0.090	0.133
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18	non DBS&DBS	54	5270	11.20	12.50	1.350	91.43	1.094	0.03	0.167	0.247
	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18	non DBS&DBS	54	5270	11.20	12.50	1.350	91.43	1.094	0.06	0.143	0.211
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.05	0.142	0.222
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.03	0.162	0.253
28	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.08	0.404	**0.630**
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	-0.11	0.276	0.431
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+18(18)	nonDBS&DBS	110	5550	8.16	9.50	1.361	91.43	1.094	-0.15	0.060	0.089
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+18(18)	non DBS&DBS	110	5550	8.16	9.50	1.361	91.43	1.094	-0.17	0.069	0.103
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18(18)	non DBS&DBS	110	5550	8.16	9.50	1.361	91.43	1.094	0.07	0.161	0.240
	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18(18)	non DBS&DBS	110	5550	8.16	9.50	1.361	91.43	1.094	0.08	0.118	0.176
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.06	0.119	0.174
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.03	0.141	0.206
29	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.09	0.266	**0.388**
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.03	0.227	0.331
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 5+18(18)	nonDBS&DBS	159	5795	8.21	9.50	1.346	91.43	1.094	-0.19	0.073	0.107
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 5+18(18)	non DBS&DBS	159	5795	8.21	9.50	1.346	91.43	1.094	0.04	0.087	0.128
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 5+18(18)	non DBS&DBS	159	5795	8.21	9.50	1.346	91.43	1.094	0.07	0.164	0.241
	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 5+18(18)	non DBS&DBS	159	5795	8.21	9.50	1.346	91.43	1.094	-0.01	0.140	0.206

15.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
										750MHz										
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	23095	707.5	24.56	25.50	1.242	-	-	0.05	0.253	0.314
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	23095	707.5	23.74	24.50	1.191	-	-	-0.08	0.242	0.288
30	LTE Band 12_Other PA	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23095	707.5	24.56	25.50	1.242	-	-	-0.06	0.265	**0.329**
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	23095	707.5	23.74	24.50	1.191	-	-	0.05	0.236	0.281
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	23095	707.5	24.56	25.50	1.242	-	-	0.05	0.143	0.178
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 4	23095	707.5	23.74	24.50	1.191	-	-	0.17	0.120	0.143
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	23095	707.5	24.56	25.50	1.242	-	-	0.03	0.190	0.236
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 4	23095	707.5	23.74	24.50	1.191	-	-	0.04	0.160	0.191
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	23095	707.5	23.74	25.50	1.500	-	-	0.12	0.099	0.148
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	23095	707.5	22.76	24.50	1.493	-	-	0.09	0.085	0.127
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23095	707.5	23.74	25.50	1.500	-	-	0.05	0.158	0.237
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	23095	707.5	22.76	24.50	1.493	-	-	0.13	0.129	0.193
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	23095	707.5	23.74	25.50	1.500	-	-	0.03	0.202	0.303
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 4	23095	707.5	22.76	24.50	1.493	-	-	0.03	0.174	0.260
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	23095	707.5	23.74	25.50	1.500	-	-	0.06	0.101	0.151
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 4	23095	707.5	22.76	24.50	1.493	-	-	-0.15	0.085	0.127
31	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	23230	782	24.64	25.50	1.219	-	-	0.07	0.507	**0.618**
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 4	23230	782	23.98	24.50	1.127	-	-	0.08	0.396	0.446
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	23230	782	24.64	25.50	1.219	-	-	0.17	0.484	0.590
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 4	23230	782	23.98	24.50	1.127	-	-	0.1	0.385	0.434
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	23230	782	24.64	25.50	1.219	-	-	-0.16	0.220	0.268
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 4	23230	782	23.98	24.50	1.127	-	-	0.08	0.176	0.198
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	23230	782	24.64	25.50	1.219	-	-	-0.04	0.300	0.366
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 4	23230	782	23.98	24.50	1.127	-	-	0.08	0.244	0.275
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	23230	782	23.47	25.00	1.422	-	-	-0.14	0.171	0.243
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 4	23230	782	22.90	24.50	1.445	-	-	0.07	0.151	0.218
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	23230	782	23.47	25.00	1.422	-	-	0.01	0.244	0.347
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	23230	782	22.90	24.50	1.445	-	-	0.03	0.213	0.308
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	23230	782	23.47	25.00	1.422	-	-	-0.11	0.211	0.300
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 4	23230	782	22.90	24.50	1.445	-	-	-0.01	0.174	0.252
	LTE Band 13	10M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	23230	782	23.47	25.00	1.422	-	-	0.05	0.185	0.263
	LTE Band 13	10M	QPSK	25	0	-	Top Side	10mm	Ant 1	DSI 4	23230	782	22.90	24.50	1.445	-	-	-0.11	0.155	0.224
										835MHz										
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	DSI 4	189	836.4	26.95	28.00	1.274	-	-	-0.05	0.387	0.493
32	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	DSI 4	189	836.4	26.95	28.00	1.274	-	-	-0.05	0.390	**0.497**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	DSI 4	189	836.4	26.95	28.00	1.274	-	-	0.03	0.137	0.174
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	DSI 4	189	836.4	26.95	28.00	1.274	-	-	0.14	0.186	0.237
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	DSI 4	189	836.4	24.98	26.50	1.419	-	-	-0.07	0.192	0.272
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	DSI 4	189	836.4	24.98	26.50	1.419	-	-	0.07	0.271	0.385
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	DSI 4	189	836.4	24.98	26.50	1.419	-	-	0.11	0.134	0.190
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 1	DSI 4	189	836.4	24.98	26.50	1.419	-	-	0.02	0.206	0.292
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 4	4182	836.4	24.16	25.00	1.213	-	-	-0.09	0.416	0.505
33	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 4	4182	836.4	24.16	25.00	1.213	-	-	-0.04	0.421	**0.511**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 4	4182	836.4	24.16	25.00	1.213	-	-	0.05	0.182	0.221
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 4	4182	836.4	24.16	25.00	1.213	-	-	0.05	0.227	0.275
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	4182	836.4	21.93	23.50	1.435	-	-	0.06	0.183	0.263
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	4182	836.4	21.93	23.50	1.435	-	-	-0.02	0.252	0.362
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	4182	836.4	21.93	23.50	1.435	-	-	0.1	0.170	0.244
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	4182	836.4	21.93	23.50	1.435	-	-	-0.13	0.185	0.266

34	LTE Band 26_Main PA	15M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	26865	831.5	24.58	25.50	1.236	-	-	0.05	0.427	**0.528**
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Front	10mm	Ant 0	DSI 4	26865	831.5	23.63	24.50	1.222	-	-	0.14	0.375	0.458
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 4	26865	831.5	24.58	25.50	1.236	-	-	-0.02	0.407	0.503
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Back	10mm	Ant 0	DSI 4	26865	831.5	23.63	24.50	1.222	-	-	-0.18	0.362	0.442
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 4	26865	831.5	24.58	25.50	1.236	-	-	0.03	0.203	0.251
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	DSI 4	26865	831.5	23.63	24.50	1.222	-	-	0.01	0.157	0.192
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 4	26865	831.5	24.58	25.50	1.236	-	-	0.04	0.277	0.342
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	DSI 4	26865	831.5	23.63	24.50	1.222	-	-	-0.11	0.218	0.266
	LTE Band 5_ Other PA	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 4	20525	836.5	24.85	25.50	1.161	-	-	0.06	0.409	0.475
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	26865	831.5	22.38	24.00	1.452	-	-	0.15	0.160	0.232
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI 4	26865	831.5	22.21	24.00	1.510	-	-	-0.07	0.178	0.269
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	26865	831.5	22.38	24.00	1.452	-	-	-0.18	0.234	0.340
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI 4	26865	831.5	22.21	24.00	1.510	-	-	-0.05	0.262	0.396
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	26865	831.5	22.38	24.00	1.452	-	-	0.06	0.144	0.209
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	DSI 4	26865	831.5	22.21	24.00	1.510	-	-	0.02	0.150	0.227
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	26865	831.5	22.38	24.00	1.452	-	-	0.02	0.159	0.231
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Top Side	10mm	Ant 1	DSI 4	26865	831.5	22.21	24.00	1.510	-	-	0.01	0.180	0.272
	LTE Band 5_ Other PA	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 4	20525	836.5	22.35	24.00	1.462	-	-	0.1	0.199	0.291
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 4	167300	836.5	24.63	25.50	1.222	-	-	0.07	0.374	0.457
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 4	167300	836.5	24.61	25.50	1.227	-	-	0.03	0.414	0.508
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 4	167300	836.5	24.63	25.50	1.222	-	-	-0.15	0.330	0.403
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 4	167300	836.5	24.61	25.50	1.227	-	-	0.01	0.367	0.450
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 4	167300	836.5	24.63	25.50	1.222	-	-	-0.03	0.131	0.160
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 4	167300	836.5	24.61	25.50	1.227	-	-	0.05	0.148	0.182
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 4	167300	836.5	24.63	25.50	1.222	-	-	0.15	0.228	0.279
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 4	167300	836.5	24.61	25.50	1.227	-	-	0.08	0.221	0.271
	FR1 n5_ Other PA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 4	167300	836.5	24.49	25.50	1.262	-	-	-0.09	0.393	0.496
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 4	167300	836.5	22.30	24.00	1.479	-	-	0.1	0.194	0.287
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 4	167300	836.5	22.25	24.00	1.496	-	-	-0.04	0.243	0.364
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	167300	836.5	22.30	24.00	1.479	-	-	-0.01	0.260	0.385
35	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	167300	836.5	22.25	24.00	1.496	-	-	-0.05	0.346	**0.518**
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 4	167300	836.5	22.30	24.00	1.479	-	-	0.08	0.155	0.229
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 4	167300	836.5	22.25	24.00	1.496	-	-	0.03	0.203	0.304
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	167300	836.5	22.30	24.00	1.479	-	-	0.02	0.194	0.287
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	167300	836.5	22.25	24.00	1.496	-	-	-0.18	0.230	0.344
	FR1 n5_ Other PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	167300	836.5	22.31	24.00	1.476	-	-	0.19	0.233	0.344
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	1413	1732.6	17.26	19.00	1.493	-	-	0.04	0.133	0.199
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	1413	1732.6	17.26	19.00	1.493	-	-	0.04	0.153	0.228
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	1413	1732.6	17.26	19.00	1.493	-	-	-0.14	0.113	0.169
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	1413	1732.6	17.26	19.00	1.493	-	-	0.02	0.207	0.309
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	0.11	0.345	0.475
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	0.03	0.429	0.591
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	-0.03	0.115	0.158
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	1413	1732.6	21.11	22.50	1.377	-	-	0.15	0.596	0.821
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	1312	1712.4	20.95	22.50	1.429	-	-	0.05	0.556	0.794
36	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	1513	1752.6	21.04	22.50	1.400	-	-	0.04	0.651	**0.911**
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	20175	1732.5	16.08	17.00	1.236	-	-	0.12	0.104	0.129
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	20175	1732.5	16.01	17.00	1.256	-	-	0.02	0.104	0.131
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	20175	1732.5	16.08	17.00	1.236	-	-	0.1	0.129	0.159
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	20175	1732.5	16.01	17.00	1.256	-	-	0.06	0.127	0.160
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	20175	1732.5	16.08	17.00	1.236	-	-	0.07	0.093	0.115
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	20175	1732.5	16.01	17.00	1.256	-	-	0.07	0.088	0.111
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	16.08	17.00	1.236	-	-	-0.13	0.144	0.178

	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	16.01	17.00	1.256	-	-	0.03	0.148	0.186
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	20175	1732.5	14.38	16.00	1.452	-	-	0.18	0.116	0.168
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	20175	1732.5	19.67	20.70	1.268	-	-	0.07	0.215	0.273
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	20175	1732.5	19.59	20.70	1.291	-	-	0.1	0.236	0.305
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	20175	1732.5	19.67	20.70	1.268	-	-	-0.02	0.265	0.336
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	20175	1732.5	19.59	20.70	1.291	-	-	0.07	0.283	0.365
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	20175	1732.5	19.67	20.70	1.268	-	-	-0.12	0.100	0.127
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	20175	1732.5	19.59	20.70	1.291	-	-	0.18	0.093	0.120
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	19.67	20.70	1.268	-	-	0.07	0.354	0.449
37	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	19.59	20.70	1.291	-	-	0.03	0.369	**0.476**
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	20175	1732.5	18.84	19.50	1.164	-	-	-0.18	0.288	0.335
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	20175	1732.5	19.20	20.50	1.349	-	-	-0.11	0.071	0.096
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	20175	1732.5	19.18	20.50	1.355	-	-	0.05	0.121	0.164
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	20175	1732.5	19.20	20.50	1.349	-	-	-0.11	0.065	0.088
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	20175	1732.5	19.18	20.50	1.355	-	-	0.06	0.098	0.133
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	19.20	20.50	1.349	-	-	0.06	0.140	0.189
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	19.18	20.50	1.355	-	-	0.03	0.241	0.327
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	20175	1732.5	19.20	20.50	1.349	-	-	0.05	0.010	0.013
	LTE Band 4_ Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	20175	1732.5	19.18	20.50	1.355	-	-	-0.18	0.010	0.014
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	20175	1732.5	17.74	19.50	1.500	-	-	0.02	0.155	0.232
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	20175	1732.5	24.36	25.50	1.300	-	-	0.04	0.010	0.013
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	20175	1732.5	23.53	24.50	1.250	-	-	-0.16	0.010	0.013
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	20175	1732.5	24.36	25.50	1.300	-	-	0.01	0.010	0.013
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	20175	1732.5	23.53	24.50	1.250	-	-	0.16	0.010	0.013
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	20175	1732.5	24.36	25.50	1.300	-	-	0.01	0.195	0.254
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	20175	1732.5	23.53	24.50	1.250	-	-	0.13	0.153	0.191
	LTE Band 4_ Main PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 4	20175	1732.5	24.36	25.50	1.300	-	-	0.13	0.010	0.013
	LTE Band 4_ Main PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 4	20175	1732.5	23.53	24.50	1.250	-	-	-0.03	0.010	0.013
	LTE Band 4_ Other PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	20175	1732.5	23.27	24.50	1.327	-	-	-0.09	0.110	0.146
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	132322	1745	18.85	19.50	1.161	-	-	-0.06	0.160	0.186
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	132322	1745	18.78	19.50	1.180	-	-	0.03	0.132	0.156
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	132322	1745	18.85	19.50	1.161	-	-	-0.1	0.170	0.197
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	132322	1745	18.78	19.50	1.180	-	-	-0.04	0.159	0.188
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	132322	1745	18.85	19.50	1.161	-	-	-0.15	0.131	0.152
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	132322	1745	18.78	19.50	1.180	-	-	0.18	0.100	0.118
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	132322	1745	18.85	19.50	1.161	-	-	0.06	0.250	0.290
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	132322	1745	18.78	19.50	1.180	-	-	0.06	0.208	0.246
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	132322	1745	16.49	18.00	1.416	-	-	0.09	0.153	0.217
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	132322	1745	20.72	21.50	1.197	-	-	-0.08	0.330	0.395
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	132322	1745	20.64	21.50	1.219	-	-	-0.19	0.261	0.318
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	132322	1745	20.72	21.50	1.197	-	-	0.01	0.388	0.464
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	132322	1745	20.64	21.50	1.219	-	-	-0.18	0.336	0.410
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	132322	1745	20.72	21.50	1.197	-	-	-0.1	0.106	0.127
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	132322	1745	20.64	21.50	1.219	-	-	0.02	0.084	0.102
38	LTE Band 66_Main PA	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	20.72	21.50	1.197	-	-	-0.09	0.583	**0.698**
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	132322	1745	20.64	21.50	1.219	-	-	0.07	0.446	0.544
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	132322	1745	22.89	24.00	1.291	-	-	0.01	0.214	0.276
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	132322	1745	22.88	24.00	1.294	-	-	0.13	0.198	0.256
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	132322	1745	22.89	24.00	1.291	-	-	0.04	0.176	0.227
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	132322	1745	22.88	24.00	1.294	-	-	-0.17	0.170	0.220
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	132322	1745	22.89	24.00	1.291	-	-	-0.16	0.513	0.662
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	132322	1745	22.88	24.00	1.294	-	-	-0.02	0.419	0.542
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	132322	1745	22.89	24.00	1.291	-	-	0.05	0.020	0.026
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	132322	1745	22.88	24.00	1.294	-	-	-0.15	0.020	0.026
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	132322	1745	20.40	22.00	1.445	-	-	0.06	0.451	0.652

	LTE Band 66_Main PA	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	132322	1745	23.33	24.50	1.309	-	-	0.04	0.001	0.001
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	132322	1745	22.52	23.50	1.253	-	-	0.07	0.002	0.003
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	132322	1745	23.33	24.50	1.309	-	-	0.14	0.044	0.058
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	132322	1745	22.52	23.50	1.253	-	-	-0.03	0.000	0.000
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	132322	1745	23.33	24.50	1.309	-	-	0.06	0.071	0.093
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	132322	1745	22.52	23.50	1.253	-	-	0.06	0.057	0.071
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 4	132322	1745	23.33	24.50	1.309	-	-	0.06	0.000	0.000
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 4	132322	1745	22.52	23.50	1.253	-	-	0.07	0.000	0.000
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 4	349000	1745	17.83	18.50	1.167	-	-	-0.15	0.137	0.160
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 4	349000	1745	17.80	18.50	1.175	-	-	0.06	0.152	0.179
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	349000	1745	17.83	18.50	1.167	-	-	0.06	0.168	0.196
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	349000	1745	17.80	18.50	1.175	-	-	0.09	0.189	0.222
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 4	349000	1745	17.83	18.50	1.167	-	-	0.13	0.117	0.137
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 4	349000	1745	17.80	18.50	1.175	-	-	0.06	0.125	0.147
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	349000	1745	17.83	18.50	1.167	-	-	0.09	0.219	0.256
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	349000	1745	17.80	18.50	1.175	-	-	-0.08	0.227	0.267
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	349000	1745	15.51	17.00	1.409	-	-	-0.15	0.117	0.165
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 4	349000	1745	21.42	22.00	1.143	-	-	-0.09	0.388	0.443
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 4	349000	1745	21.25	22.00	1.189	-	-	-0.09	0.417	0.496
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 4	349000	1745	21.42	22.00	1.143	-	-	0.07	0.472	0.539
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 4	349000	1745	21.25	22.00	1.189	-	-	0.18	0.449	0.534
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 4	349000	1745	21.42	22.00	1.143	-	-	0.01	0.109	0.125
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 4	349000	1745	21.25	22.00	1.189	-	-	-0.06	0.127	0.151
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	21.42	22.00	1.143	-	-	0.11	0.597	0.682
39	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	21.25	22.00	1.189	-	-	-0.11	0.661	**0.786**
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 4	349000	1745	21.49	22.50	1.262	-	-	0.08	0.611	0.771
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI 4	349000	1745	21.94	22.50	1.138	-	-	0.05	0.192	0.218
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI 4	349000	1745	21.92	22.50	1.143	-	-	0.18	0.231	0.264
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI 4	349000	1745	21.94	22.50	1.138	-	-	0.06	0.161	0.183
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI 4	349000	1745	21.92	22.50	1.143	-	-	0.03	0.211	0.241
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI 4	349000	1745	21.94	22.50	1.138	-	-	-0.06	0.381	0.433
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI 4	349000	1745	21.92	22.50	1.143	-	-	0.01	0.462	0.528
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI 4	349000	1745	21.94	22.50	1.138	-	-	0.06	0.010	0.011
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI 4	349000	1745	21.92	22.50	1.143	-	-	0.12	0.010	0.011
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI 4	349000	1745	18.94	20.50	1.432	-	-	0.05	0.221	0.317
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 4	DSI 4	349000	1745	23.76	24.50	1.186	-	-	0.06	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	10mm	Ant 4	DSI 4	349000	1745	23.65	24.50	1.216	-	-	0.14	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 4	DSI 4	349000	1745	23.76	24.50	1.186	-	-	-0.04	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	10mm	Ant 4	DSI 4	349000	1745	23.65	24.50	1.216	-	-	-0.15	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	349000	1745	23.76	24.50	1.186	-	-	0.04	0.049	0.058
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	349000	1745	23.65	24.50	1.216	-	-	-0.04	0.055	0.067
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 4	DSI 4	349000	1745	23.76	24.50	1.186	-	-	0.02	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Top Side	10mm	Ant 4	DSI 4	349000	1745	23.65	24.50	1.216	-	-	-0.03	0.010	0.012
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	349000	1745	23.26	24.50	1.330	-	-	0.06	0.049	0.065
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	DSI 4	661	1880	16.53	18.00	1.403	-	-	0.12	0.297	0.417
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	DSI 4	661	1880	16.53	18.00	1.403	-	-	0.16	0.365	0.512
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	DSI 4	661	1880	16.53	18.00	1.403	-	-	-0.16	0.276	0.387
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Top Side	10mm	Ant 1	DSI 4	661	1880	16.53	18.00	1.403	-	-	-0.13	0.013	0.018
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 2	DSI 4	661	1880	24.02	25.00	1.253	-	-	-0.13	0.420	0.526
40	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 2	DSI 4	661	1880	24.02	25.00	1.253	-	-	0.12	0.518	**0.649**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 2	DSI 4	661	1880	24.02	25.00	1.253	-	-	-0.19	0.126	0.158
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 2	DSI 4	661	1880	24.02	25.00	1.253	-	-	-0.01	0.010	0.013
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 4	9400	1880	15.68	17.50	1.521	-	-	-0.18	0.168	0.255
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	9400	1880	15.68	17.50	1.521	-	-	-0.05	0.217	0.330

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 4	9400	1880	15.68	17.50	1.521	-	-	0.07	0.250	0.380
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 1	DSI 4	9400	1880	15.68	17.50	1.521	-	-	0.05	0.143	0.217
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 2	DSI 4	9400	1880	20.60	22.00	1.380	-	-	-0.07	0.336	0.464
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 2	DSI 4	9400	1880	20.60	22.00	1.380	-	-	-0.18	0.411	0.567
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 2	DSI 4	9400	1880	20.60	22.00	1.380	-	-	0.1	0.120	0.166
41	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	9400	1880	20.60	22.00	1.380	-	-	0.19	0.689	**0.951**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	9262	1852.4	20.54	22.00	1.400	-	-	-0.15	0.649	0.908
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 2	DSI 4	9538	1907.6	20.51	22.00	1.409	-	-	0.14	0.640	0.902
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	18900	1880	17.73	19.00	1.340	-	-	0.02	0.162	0.217
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	18900	1880	17.62	19.00	1.374	-	-	-0.03	0.164	0.225
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	18900	1880	17.73	19.00	1.340	-	-	0.3	0.209	0.280
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	18900	1880	17.62	19.00	1.374	-	-	0.05	0.214	0.294
	LTE Band 2	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	18900	1880	17.73	19.00	1.340	-	-	-0.07	0.055	0.074
	LTE Band 2	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	18900	1880	17.62	19.00	1.374	-	-	0.05	0.059	0.081
	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	17.73	19.00	1.340	-	-	-0.02	0.358	0.480
42	LTE Band 2	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	18900	1880	17.62	19.00	1.374	-	-	0.05	0.377	**0.518**
	LTE Band 2	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	18900	1880	19.49	20.50	1.262	-	-	0.02	0.118	0.149
	LTE Band 2	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	18900	1880	19.42	20.50	1.282	-	-	0.05	0.094	0.121
	LTE Band 2	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	18900	1880	19.49	20.50	1.262	-	-	-0.09	0.146	0.184
	LTE Band 2	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	18900	1880	19.42	20.50	1.282	-	-	0.06	0.119	0.153
	LTE Band 2	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	18900	1880	19.49	20.50	1.262	-	-	0.03	0.262	0.331
	LTE Band 2	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	18900	1880	19.42	20.50	1.282	-	-	0.1	0.200	0.256
	LTE Band 2	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 4	18900	1880	19.49	20.50	1.262	-	-	-0.02	0.000	0.000
	LTE Band 2	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 4	18900	1880	19.42	20.50	1.282	-	-	0.06	0.014	0.018
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	26340	1880	20.78	22.00	1.324	-	-	0.08	0.420	0.556
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	26340	1880	20.71	22.00	1.346	-	-	0.09	0.403	0.542
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	26340	1880	20.78	22.00	1.324	-	-	-0.17	0.565	0.748
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	26340	1880	20.71	22.00	1.346	-	-	-0.19	0.517	0.696
	LTE Band 25	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	26340	1880	20.78	22.00	1.324	-	-	-0.07	0.165	0.219
	LTE Band 25	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	26340	1880	20.71	22.00	1.346	-	-	0.16	0.157	0.211
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	26340	1880	20.78	22.00	1.324	-	-	-0.03	0.739	0.979
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	26140	1860	20.51	22.00	1.409	-	-	-0.01	0.697	0.982
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	26590	1905	20.58	22.00	1.387	-	-	0.06	0.699	0.969
43	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	26340	1880	20.71	22.00	1.346	-	-	-0.06	0.760	**1.023**
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	26140	1860	20.48	22.00	1.419	-	-	0.06	0.718	1.019
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	26590	1905	20.63	22.00	1.371	-	-	-0.04	0.699	0.958
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 4	26340	1880	20.68	22.00	1.355	-	-	-0.01	0.712	0.965
	LTE Band 25	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	26340	1880	23.42	24.50	1.282	-	-	0.14	0.267	0.342
	LTE Band 25	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	26340	1880	22.35	23.50	1.303	-	-	-0.06	0.224	0.292
	LTE Band 25	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	26340	1880	23.42	24.50	1.282	-	-	-0.14	0.362	0.464
	LTE Band 25	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	26340	1880	22.35	23.50	1.303	-	-	0.05	0.333	0.434
	LTE Band 25	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	26340	1880	23.42	24.50	1.282	-	-	0.02	0.579	0.742
	LTE Band 25	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	26340	1880	22.35	23.50	1.303	-	-	-0.07	0.540	0.704
	LTE Band 25	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 4	26340	1880	23.42	24.50	1.282	-	-	0.03	0.060	0.077
	LTE Band 25	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 4	26340	1880	22.35	23.50	1.303	-	-	-0.05	0.001	0.001
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	21100	2535	15.92	16.50	1.143	-	-	0.02	0.080	0.091
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	21100	2535	15.85	16.50	1.161	-	-	0.13	0.083	0.096
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	21100	2535	15.92	16.50	1.143	-	-	-0.17	0.100	0.114
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	21100	2535	15.85	16.50	1.161	-	-	0.07	0.106	0.123
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	21100	2535	15.92	16.50	1.143	-	-	0.09	0.064	0.073
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	21100	2535	15.85	16.50	1.161	-	-	-0.03	0.058	0.067
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	21100	2535	15.92	16.50	1.143	-	-	0.01	0.119	0.136

	LTE Band 7C	20M	QPSK	1	99	-	Top Side	10mm	Ant 1	DSI 4	21100+21298	2535+2554.8	15.55	16.50	1.245	-	-	0.05	0.105	0.131
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	21100	2535	15.85	16.50	1.161	-	-	0.05	0.116	0.135
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	21100	2535	20.77	21.50	1.183	-	-	-0.05	0.277	0.328
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	21100	2535	20.65	21.50	1.216	-	-	0.19	0.283	0.344
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	21100	2535	20.77	21.50	1.183	-	-	0.09	0.374	0.442
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	21100	2535	20.65	21.50	1.216	-	-	-0.15	0.368	0.448
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	21100	2535	20.77	21.50	1.183	-	-	0.07	0.100	0.118
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	21100	2535	20.65	21.50	1.216	-	-	-0.08	0.111	0.135
44	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	21100	2535	20.77	21.50	1.183	-	-	0.01	0.462	**0.547**
	LTE Band 7C	20M	QPSK	1	99	-	Bottom Side	10mm	Ant 2	DSI 4	21100+21298	2535+2554.8	20.29	21.50	1.321	-	-	0.03	0.411	0.543
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	21100	2535	20.65	21.50	1.216	-	-	-0.15	0.445	0.541
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	21100	2535	17.89	19.00	1.291	-	-	0.14	0.120	0.155
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	21100	2535	17.78	19.00	1.324	-	-	-0.14	0.116	0.154
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	21100	2535	17.89	19.00	1.291	-	-	0.01	0.092	0.119
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	21100	2535	17.78	19.00	1.324	-	-	-0.06	0.097	0.128
	LTE Band 7	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	21100	2535	17.89	19.00	1.291	-	-	0.02	0.184	0.238
	LTE Band 7C	20M	QPSK	1	99	-	Left Side	10mm	Ant 3	DSI 4	21100+21298	2535+2554.8	17.41	19.00	1.442	-	-	-0.06	0.161	0.232
	LTE Band 7	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	21100	2535	17.78	19.00	1.324	-	-	0.08	0.174	0.230
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	21100	2535	17.89	19.00	1.291	-	-	0.05	0.010	0.013
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	21100	2535	17.78	19.00	1.324	-	-	0.07	0.010	0.013
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	21100	2535	18.83	19.50	1.167	-	-	0.15	0.170	0.198
	LTE Band 7	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	21100	2535	18.60	19.50	1.230	-	-	0.06	0.186	0.229
	LTE Band 7	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	21100	2535	18.83	19.50	1.167	-	-	0.11	0.212	0.247
	LTE Band 7	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	21100	2535	18.60	19.50	1.230	-	-	0.04	0.234	0.288
	LTE Band 7	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	21100	2535	18.83	19.50	1.167	-	-	0.06	0.396	0.462
	LTE Band 7C	20M	QPSK	1	99	-	Right Side	10mm	Ant 4	DSI 4	21100+21298	2535+2554.8	18.40	19.50	1.288	-	-	0.02	0.356	0.459
	LTE Band 7	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	21100	2535	18.60	19.50	1.230	-	-	0.03	0.366	0.450
	LTE Band 7	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 4	21100	2535	18.83	19.50	1.167	-	-	0.08	0.010	0.012
	LTE Band 7	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 4	21100	2535	18.60	19.50	1.230	-	-	0.17	0.010	0.012
	LTE Band 38	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	38000	2595	19.67	21.00	1.358	62.9	1.006	0.15	0.153	0.209
	LTE Band 38	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	38000	2595	19.56	21.00	1.393	62.9	1.006	-0.07	0.096	0.135
	LTE Band 38	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	38000	2595	19.67	21.00	1.358	62.9	1.006	-0.11	0.184	0.251
	LTE Band 38	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	38000	2595	19.56	21.00	1.393	62.9	1.006	0.12	0.182	0.255
	LTE Band 38	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	38000	2595	19.67	21.00	1.358	62.9	1.006	0.06	0.128	0.175
	LTE Band 38	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	38000	2595	19.56	21.00	1.393	62.9	1.006	0.06	0.133	0.186
45	LTE Band 38	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	38000	2595	19.67	21.00	1.358	62.9	1.006	0.04	0.234	**0.320**
	LTE Band 38C	20M	QPSK	1	99	-	Top Side	10mm	Ant 1	DSI 4	37901+38099	2585.1+2604.9	19.34	21.00	1.466	62.9	1.006	0.09	0.215	0.317
	LTE Band 38	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	38000	2595	19.56	21.00	1.393	62.9	1.006	0.01	0.215	0.301
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	40620	2593	19.83	20.50	1.167	62.9	1.006	-0.19	0.182	0.214
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	40620	2593	19.67	20.50	1.211	62.9	1.006	0.06	0.189	0.230
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	40620	2593	19.83	20.50	1.167	62.9	1.006	0.17	0.215	0.252
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	40620	2593	19.67	20.50	1.211	62.9	1.006	-0.09	0.229	0.279
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	40620	2593	19.83	20.50	1.167	62.9	1.006	0.07	0.174	0.204
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	40620	2593	19.67	20.50	1.211	62.9	1.006	0.13	0.180	0.219
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	40620	2593	19.83	20.50	1.167	62.9	1.006	0.01	0.264	0.310
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	40620	2593	19.67	20.50	1.211	62.9	1.006	0.18	0.248	0.302
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 2	DSI 4	40620	2593	23.49	23.50	1.002	62.9	1.006	0.19	0.274	0.276
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 2	DSI 4	40620	2593	23.42	23.50	1.019	62.9	1.006	0.08	0.293	0.300
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 2	DSI 4	40620	2593	23.49	23.50	1.002	62.9	1.006	0.04	0.375	0.378
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 2	DSI 4	40620	2593	23.42	23.50	1.019	62.9	1.006	0.06	0.365	0.374
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 2	DSI 4	40620	2593	23.49	23.50	1.002	62.9	1.006	0.08	0.121	0.122
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 2	DSI 4	40620	2593	23.42	23.50	1.019	62.9	1.006	0.08	0.122	0.125
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	23.49	23.50	1.002	62.9	1.006	0.04	0.599	0.604
	LTE Band 38C	20M	QPSK	1	99	-	Bottom Side	10mm	Ant 2	DSI 4	37901+38099	2585.1+2604.9	22.91	23.50	1.146	62.9	1.006	0.01	0.514	0.592
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	39750	2506	23.23	23.50	1.064	62.9	1.006	0.06	0.561	0.601

	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	40185	2549.5	23.25	23.50	1.059	62.9	1.006	-0.03	0.480	0.511
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	41055	2636.5	23.27	23.50	1.054	62.9	1.006	0.07	0.454	0.482
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 2	DSI 4	41490	2680	23.22	23.50	1.067	62.9	1.006	-0.06	0.528	0.567
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	23.42	23.50	1.019	62.9	1.006	0.07	0.588	0.603
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	39750	2506	23.16	23.50	1.081	62.9	1.006	0.06	0.535	0.582
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	40185	2549.5	23.30	23.50	1.047	62.9	1.006	0.03	0.435	0.458
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	41055	2636.5	23.26	23.50	1.057	62.9	1.006	0.18	0.458	0.487
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 2	DSI 4	41490	2680	23.22	23.50	1.067	62.9	1.006	-0.11	0.535	0.574
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 2	DSI 4	40620	2593	23.42	23.50	1.019	62.9	1.006	-0.08	0.437	0.448
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 3	DSI 4	40620	2593	21.33	22.50	1.309	62.9	1.006	0.15	0.241	0.317
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 3	DSI 4	40620	2593	21.27	22.50	1.327	62.9	1.006	0.18	0.246	0.328
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 3	DSI 4	40620	2593	21.33	22.50	1.309	62.9	1.006	-0.13	0.206	0.271
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 3	DSI 4	40620	2593	21.27	22.50	1.327	62.9	1.006	0.02	0.203	0.271
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	40620	2593	21.33	22.50	1.309	62.9	1.006	0.02	0.468	0.616
	LTE Band 38C	20M	QPSK	1	99	-	Left Side	10mm	Ant 3	DSI 4	37901+38099	2585.1+2604.9	20.74	22.50	1.500	62.9	1.006	0.01	0.405	0.611
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	39750	2506	21.15	22.50	1.365	62.9	1.006	0.05	0.240	0.329
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	40185	2549.5	21.20	22.50	1.349	62.9	1.006	0.14	0.334	0.453
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	41055	2636.5	21.24	22.50	1.337	62.9	1.006	-0.08	0.347	0.467
	LTE Band 41	20M	QPSK	1	0	-	Left Side	10mm	Ant 3	DSI 4	41490	2680	21.22	22.50	1.343	62.9	1.006	-0.14	0.368	0.497
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	40620	2593	21.27	22.50	1.327	62.9	1.006	0.02	0.458	0.612
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	39750	2506	21.05	22.50	1.396	62.9	1.006	0.09	0.243	0.341
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	40185	2549.5	21.09	22.50	1.384	62.9	1.006	0.02	0.346	0.482
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	41055	2636.5	21.11	22.50	1.377	62.9	1.006	0.08	0.418	0.579
	LTE Band 41	20M	QPSK	50	0	-	Left Side	10mm	Ant 3	DSI 4	41490	2680	21.16	22.50	1.361	62.9	1.006	0.07	0.366	0.501
	LTE Band 41	20M	QPSK	100	0	-	Left Side	10mm	Ant 3	DSI 4	40620	2593	21.18	22.50	1.355	62.9	1.006	-0.07	0.451	0.615
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 3	DSI 4	40620	2593	21.33	22.50	1.309	62.9	1.006	0.06	0.039	0.051
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 3	DSI 4	40620	2593	21.27	22.50	1.327	62.9	1.006	0.03	0.042	0.056
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 4	40620	2593	21.46	21.70	1.057	62.9	1.006	0.08	0.298	0.317
	LTE Band 41	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 4	40620	2593	21.42	21.70	1.067	62.9	1.006	0.06	0.291	0.312
	LTE Band 41	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 4	40620	2593	21.46	21.70	1.057	62.9	1.006	-0.07	0.348	0.370
	LTE Band 41	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 4	40620	2593	21.42	21.70	1.067	62.9	1.006	0.07	0.390	0.418
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	40620	2593	21.46	21.70	1.057	62.9	1.006	-0.16	0.571	0.607
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	39750	2506	21.16	21.70	1.132	62.9	1.006	0.02	0.526	0.599
46	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	40185	2549.5	21.41	21.70	1.069	62.9	1.006	-0.05	0.644	**0.693**
	LTE Band 41_ENDC	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	40185	2549.5	20.13	20.20	1.016	62.9	1.006	-0.05	0.469	0.479
	LTE Band 38C	20M	QPSK	1	99	-	Right Side	10mm	Ant 4	DSI 4	37850+38048	2580+2599.8	20.82	21.70	1.225	62.9	1.006	0.01	0.561	0.691
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	41055	2636.5	21.32	21.70	1.091	62.9	1.006	0.02	0.516	0.567
	LTE Band 41	20M	QPSK	1	0	-	Right Side	10mm	Ant 4	DSI 4	41490	2680	21.19	21.70	1.125	62.9	1.006	-0.14	0.426	0.482
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	40620	2593	21.42	21.70	1.067	62.9	1.006	0.13	0.569	0.611
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	39750	2506	21.30	21.70	1.096	62.9	1.006	-0.08	0.576	0.635
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	40185	2549.5	21.18	21.70	1.127	62.9	1.006	0.04	0.609	0.691
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	41055	2636.5	21.09	21.70	1.151	62.9	1.006	-0.14	0.497	0.575
	LTE Band 41	20M	QPSK	50	0	-	Right Side	10mm	Ant 4	DSI 4	41490	2680	21.36	21.70	1.081	62.9	1.006	0.07	0.407	0.443
	LTE Band 41	20M	QPSK	100	0	-	Right Side	10mm	Ant 4	DSI 4	40620	2593	21.33	21.70	1.089	62.9	1.006	0.04	0.575	0.630
	LTE Band 41	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 4	40620	2593	21.46	21.70	1.057	62.9	1.006	0.09	0.037	0.039
	LTE Band 41	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 4	40620	2593	21.42	21.70	1.067	62.9	1.006	0.14	0.044	0.047
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 4	507000	2535	18.64	19.00	1.086	-	-	0.08	0.152	0.165
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 4	507000	2535	18.59	19.00	1.099	-	-	0.03	0.162	0.178
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	507000	2535	18.64	19.00	1.086	-	-	0.07	0.186	0.202
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 4	507000	2535	18.59	19.00	1.099	-	-	-0.12	0.188	0.207
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 4	507000	2535	18.64	19.00	1.086	-	-	0.02	0.097	0.105
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 4	507000	2535	18.59	19.00	1.099	-	-	-0.14	0.138	0.152
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	507000	2535	18.64	19.00	1.086	-	-	0.06	0.220	0.239
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	10mm	Ant 1	DSI 4	507000	2535	18.59	19.00	1.099	-	-	-0.04	0.229	0.252

	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 4	507000	2535	21.37	22.20	1.211	-	-	-0.1	0.402	0.487
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 2	DSI 4	507000	2535	21.27	22.20	1.239	-	-	0.08	0.376	0.466
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 4	507000	2535	21.37	22.20	1.211	-	-	-0.1	0.425	0.515
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 2	DSI 4	507000	2535	21.27	22.20	1.239	-	-	0.12	0.434	0.538
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 4	507000	2535	21.37	22.20	1.211	-	-	-0.14	0.147	0.178
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	10mm	Ant 2	DSI 4	507000	2535	21.27	22.20	1.239	-	-	0.03	0.132	0.164
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	21.37	22.20	1.211	-	-	0.05	0.651	0.788
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	21.27	22.20	1.239	-	-	-0.16	0.622	0.771
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI 4	507000	2535	19.61	21.00	1.377	-	-	-0.1	0.177	0.244
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 3	DSI 4	507000	2535	19.56	21.00	1.393	-	-	0.06	0.205	0.286
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI 4	507000	2535	19.61	21.00	1.377	-	-	0.15	0.143	0.197
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 3	DSI 4	507000	2535	19.56	21.00	1.393	-	-	0.06	0.169	0.235
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI 4	507000	2535	19.61	21.00	1.377	-	-	0.03	0.290	0.399
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	10mm	Ant 3	DSI 4	507000	2535	19.56	21.00	1.393	-	-	0.14	0.339	0.472
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI 4	507000	2535	19.61	21.00	1.377	-	-	0.13	0.010	0.014
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	10mm	Ant 3	DSI 4	507000	2535	19.56	21.00	1.393	-	-	-0.02	0.010	0.014
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 4	DSI 4	507000	2535	19.64	20.50	1.219	-	-	0.17	0.287	0.350
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	10mm	Ant 4	DSI 4	507000	2535	19.57	20.50	1.239	-	-	-0.02	0.300	0.372
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 4	DSI 4	507000	2535	19.64	20.50	1.219	-	-	-0.01	0.323	0.394
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	10mm	Ant 4	DSI 4	507000	2535	19.57	20.50	1.239	-	-	0.01	0.370	0.458
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	507000	2535	19.64	20.50	1.219	-	-	-0.18	0.600	0.731
47	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	507000	2535	19.57	20.50	1.239	-	-	0.06	0.681	**0.844**
	FR1 n7_ENDC	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	507000	2535	17.61	18.50	1.227	-	-	0.01	0.413	0.507
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Side	10mm	Ant 4	DSI 4	507000	2535	19.51	19.50	0.998	-	-	0.06	0.611	0.610
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	10mm	Ant 4	DSI 4	507000	2535	19.64	20.50	1.219	-	-	-0.11	0.000	0.000
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	10mm	Ant 4	DSI 4	507000	2535	19.57	20.50	1.239	-	-	-0.05	0.044	0.055
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	519000	2595	17.41	18.00	1.146	-	-	0.04	0.133	0.152
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	519000	2595	17.33	18.00	1.167	-	-	0.05	0.130	0.152
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	519000	2595	17.41	18.00	1.146	-	-	0.05	0.169	0.194
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	519000	2595	17.33	18.00	1.167	-	-	0.02	0.162	0.189
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	519000	2595	17.41	18.00	1.146	-	-	0.16	0.115	0.132
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	519000	2595	17.33	18.00	1.167	-	-	-0.06	0.113	0.132
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	519000	2595	17.41	18.00	1.146	-	-	-0.08	0.195	0.223
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	519000	2595	17.33	18.00	1.167	-	-	0.05	0.198	0.231
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 4	519000	2595	21.25	21.70	1.109	-	-	-0.12	0.315	0.349
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 4	519000	2595	21.20	21.70	1.122	-	-	0.15	0.310	0.348
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 4	519000	2595	21.25	21.70	1.109	-	-	0.15	0.430	0.477
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 4	519000	2595	21.20	21.70	1.122	-	-	-0.13	0.423	0.475
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 4	519000	2595	21.25	21.70	1.109	-	-	-0.04	0.083	0.092
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 4	519000	2595	21.20	21.70	1.122	-	-	0.04	0.074	0.083
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 4	519000	2595	21.25	21.70	1.109	-	-	0.09	0.512	0.568
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 4	519000	2595	21.20	21.70	1.122	-	-	0.06	0.496	0.557
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 4	519000	2595	19.25	20.50	1.334	-	-	-0.15	0.227	0.303
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 4	519000	2595	19.21	20.50	1.346	-	-	-0.03	0.241	0.324
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 4	519000	2595	19.25	20.50	1.334	-	-	-0.18	0.173	0.231
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 4	519000	2595	19.21	20.50	1.346	-	-	0.1	0.182	0.245
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 4	519000	2595	19.25	20.50	1.334	-	-	0.12	0.377	0.503
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 4	519000	2595	19.21	20.50	1.346	-	-	0.02	0.424	0.571
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 4	519000	2595	19.25	20.50	1.334	-	-	0.09	0.010	0.013
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 4	519000	2595	19.21	20.50	1.346	-	-	-0.06	0.047	0.063
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI 4	519000	2595	20.08	20.20	1.028	-	-	-0.12	0.344	0.354
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI 4	519000	2595	20.04	20.20	1.038	-	-	0.01	0.322	0.334
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI 4	519000	2595	20.08	20.20	1.028	-	-	0.06	0.396	0.407
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI 4	519000	2595	20.04	20.20	1.038	-	-	0.08	0.361	0.375
48	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI 4	519000	2595	20.08	20.20	1.028	-	-	0.03	0.617	**0.634**

	FR1 n38_ENDC	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI 4	519000	2595	18.99	19.20	1.050	-	-	0.04	0.482	0.506
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI 4	519000	2595	20.04	20.20	1.038	-	-	-0.15	0.511	0.530
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI 4	519000	2595	20.08	20.20	1.028	-	-	-0.08	0.043	0.044
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI 4	519000	2595	20.04	20.20	1.038	-	-	0.13	0.040	0.042
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	518598	2592.99	17.97	19.00	1.268	-	-	-0.16	0.152	0.193
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	518598	2592.99	17.94	19.00	1.276	-	-	0.05	0.164	0.209
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	518598	2592.99	17.97	19.00	1.268	-	-	0.05	0.178	0.226
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	518598	2592.99	17.94	19.00	1.276	-	-	0.1	0.186	0.237
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	17.97	19.00	1.268	-	-	-0.02	0.120	0.152
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	518598	2592.99	17.94	19.00	1.276	-	-	0.03	0.133	0.170
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	17.97	19.00	1.268	-	-	0.15	0.213	0.270
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	518598	2592.99	17.94	19.00	1.276	-	-	0.02	0.231	0.295
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 4	518598	2592.99	20.99	21.20	1.050	-	-	-0.01	0.271	0.284
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 2	DSI 4	518598	2592.99	20.84	21.20	1.086	-	-	0.07	0.281	0.305
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 4	518598	2592.99	20.99	21.20	1.050	-	-	0.02	0.343	0.360
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 2	DSI 4	518598	2592.99	20.84	21.20	1.086	-	-	0.12	0.326	0.354
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 4	518598	2592.99	20.99	21.20	1.050	-	-	-0.17	0.112	0.118
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 2	DSI 4	518598	2592.99	20.84	21.20	1.086	-	-	0.07	0.103	0.112
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 4	518598	2592.99	20.99	21.20	1.050	-	-	0.02	0.439	0.461
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	10mm	Ant 2	DSI 4	518598	2592.99	20.84	21.20	1.086	-	-	0.02	0.418	0.454
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 4	518598	2592.99	18.52	20.00	1.406	-	-	0.15	0.139	0.195
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 3	DSI 4	518598	2592.99	18.48	20.00	1.419	-	-	0.12	0.179	0.254
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 4	518598	2592.99	18.52	20.00	1.406	-	-	0.03	0.113	0.159
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 3	DSI 4	518598	2592.99	18.48	20.00	1.419	-	-	-0.1	0.150	0.213
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 4	518598	2592.99	18.52	20.00	1.406	-	-	0.03	0.277	0.389
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 3	DSI 4	518598	2592.99	18.48	20.00	1.419	-	-	-0.06	0.349	0.495
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 4	518598	2592.99	18.52	20.00	1.406	-	-	-0.17	0.010	0.014
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 3	DSI 4	518598	2592.99	18.48	20.00	1.419	-	-	0.09	0.025	0.035
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI 4	518598	2592.99	19.42	19.70	1.067	-	-	0.08	0.229	0.244
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 4	DSI 4	518598	2592.99	19.41	19.70	1.069	-	-	-0.15	0.267	0.285
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI 4	518598	2592.99	19.42	19.70	1.067	-	-	0.1	0.273	0.291
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 4	DSI 4	518598	2592.99	19.41	19.70	1.069	-	-	0.08	0.294	0.314
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI 4	518598	2592.99	19.42	19.70	1.067	-	-	0.17	0.458	0.489
49	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 4	DSI 4	518598	2592.99	19.41	19.70	1.069	-	-	0.03	0.468	**0.500**
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI 4	518598	2592.99	19.42	19.70	1.067	-	-	0.14	0.010	0.011
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 4	DSI 4	518598	2592.99	19.41	19.70	1.069	-	-	0.18	0.044	0.047
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	42590	3500	20.69	21.00	1.074	62.9	1.006	0.03	0.134	0.145
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	42590	3500	20.47	21.00	1.130	62.9	1.006	-0.15	0.130	0.148
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	42590	3500	20.69	21.00	1.074	62.9	1.006	0.04	0.149	0.161
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	42590	3500	20.47	21.00	1.130	62.9	1.006	-0.11	0.151	0.172
	LTE Band 42	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	DSI 4	42590	3500	20.69	21.00	1.074	62.9	1.006	0.06	0.105	0.113
	LTE Band 42	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	DSI 4	42590	3500	20.47	21.00	1.130	62.9	1.006	0.06	0.103	0.117
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	DSI 4	42590	3500	20.69	21.00	1.074	62.9	1.006	0.03	0.315	0.340
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI 4	42590	3500	20.47	21.00	1.130	62.9	1.006	0.11	0.322	0.366
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	42590	3500	20.02	21.50	1.406	62.9	1.006	-0.08	0.097	0.137
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.16	0.100	0.146
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	42590	3500	20.02	21.50	1.406	62.9	1.006	0.14	0.236	0.334
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	42590	3500	19.87	21.50	1.455	62.9	1.006	0.08	0.235	0.344
	LTE Band 42	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	42590	3500	20.02	21.50	1.406	62.9	1.006	-0.05	0.154	0.218
	LTE Band 42	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.05	0.148	0.217
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	42590	3500	20.02	21.50	1.406	62.9	1.006	0.02	0.340	0.481
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	42590	3500	19.87	21.50	1.455	62.9	1.006	-0.14	0.331	0.485
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	42590	3500	17.94	18.50	1.138	62.9	1.006	0.13	0.107	0.122
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	42590	3500	17.66	18.50	1.213	62.9	1.006	0.03	0.106	0.129
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	42590	3500	17.94	18.50	1.138	62.9	1.006	0.07	0.102	0.117

	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	42590	3500	17.66	18.50	1.213	62.9	1.006	0.07	0.105	0.128
	LTE Band 42	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 4	42590	3500	17.94	18.50	1.138	62.9	1.006	0.04	0.239	0.274
	LTE Band 42	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	DSI 4	42590	3500	17.66	18.50	1.213	62.9	1.006	0.05	0.235	0.287
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	DSI 4	42590	3500	17.94	18.50	1.138	62.9	1.006	-0.03	0.037	0.042
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	DSI 4	42590	3500	17.66	18.50	1.213	62.9	1.006	-0.08	0.032	0.039
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	42590	3500	19.66	20.50	1.213	62.9	1.006	-0.05	0.056	0.068
	LTE Band 42	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	42590	3500	19.56	20.50	1.242	62.9	1.006	0.04	0.050	0.062
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	42590	3500	19.66	20.50	1.213	62.9	1.006	-0.15	0.665	0.812
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	42190	3460	19.53	20.50	1.250	62.9	1.006	-0.01	0.651	0.819
	LTE Band 42	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	42990	3540	19.44	20.50	1.276	62.9	1.006	-0.06	0.762	0.978
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	42590	3500	19.56	20.50	1.242	62.9	1.006	0.03	0.692	0.864
	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	42190	3460	19.51	20.50	1.256	62.9	1.006	-0.13	0.561	0.709
50	LTE Band 42	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	42990	3540	19.47	20.50	1.268	62.9	1.006	-0.08	0.771	**0.983**
	LTE Band 42	20M	QPSK	100	0	-	Back	10mm	Ant 7	DSI 4	42590	3500	19.53	20.50	1.250	62.9	1.006	0.17	0.569	0.716
	LTE Band 42	20M	QPSK	1	0	-	Left Side	10mm	Ant 7	DSI 4	42590	3500	19.66	20.50	1.213	62.9	1.006	-0.08	0.226	0.276
	LTE Band 42	20M	QPSK	50	0	-	Left Side	10mm	Ant 7	DSI 4	42590	3500	19.56	20.50	1.242	62.9	1.006	-0.01	0.225	0.281
	LTE Band 42	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	DSI 4	42590	3500	19.66	20.50	1.213	62.9	1.006	0.09	0.056	0.068
	LTE Band 42	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	DSI 4	42590	3500	19.56	20.50	1.242	62.9	1.006	-0.17	0.034	0.042
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 4	55830	3609	20.29	20.50	1.050	62.9	1.006	0.03	0.109	0.115
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 4	55830	3609	20.11	20.50	1.094	62.9	1.006	-0.07	0.110	0.121
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 4	55830	3609	20.29	20.50	1.050	62.9	1.006	0.09	0.116	0.122
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 4	55830	3609	20.11	20.50	1.094	62.9	1.006	-0.03	0.121	0.133
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 5	DSI 4	55830	3609	20.29	20.50	1.050	62.9	1.006	0.06	0.125	0.132
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 5	DSI 4	55830	3609	20.11	20.50	1.094	62.9	1.006	0.1	0.129	0.142
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	DSI 4	55830	3609	20.29	20.50	1.050	62.9	1.006	0.07	0.289	0.305
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI 4	55830	3609	20.11	20.50	1.094	62.9	1.006	0.03	0.130	0.143
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 4	55830	3609	20.22	21.50	1.343	62.9	1.006	0.07	0.115	0.155
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 4	55830	3609	20.02	21.50	1.406	62.9	1.006	-0.11	0.110	0.156
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 4	55830	3609	20.22	21.50	1.343	62.9	1.006	-0.16	0.247	0.334
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 4	55830	3609	20.02	21.50	1.406	62.9	1.006	-0.09	0.261	0.369
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 4	55830	3609	20.22	21.50	1.343	62.9	1.006	0.04	0.095	0.128
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 4	55830	3609	20.02	21.50	1.406	62.9	1.006	0.02	0.097	0.137
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 1	DSI 4	55830	3609	20.22	21.50	1.343	62.9	1.006	0.13	0.268	0.362
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 1	DSI 4	55830	3609	20.02	21.50	1.406	62.9	1.006	-0.04	0.385	0.545
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 4	55830	3609	16.99	17.50	1.125	62.9	1.006	-0.19	0.189	0.214
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 4	55830	3609	16.81	17.50	1.172	62.9	1.006	-0.05	0.193	0.228
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 4	55830	3609	16.99	17.50	1.125	62.9	1.006	0.04	0.167	0.189
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 4	55830	3609	16.81	17.50	1.172	62.9	1.006	0.07	0.167	0.197
	LTE Band 48	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 4	55830	3609	16.99	17.50	1.125	62.9	1.006	0.05	0.423	0.479
	LTE Band 48	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	DSI 4	55830	3609	16.81	17.50	1.172	62.9	1.006	-0.06	0.331	0.390
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 6	DSI 4	55830	3609	16.99	17.50	1.125	62.9	1.006	0.13	0.063	0.071
	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 6	DSI 4	55830	3609	16.81	17.50	1.172	62.9	1.006	0.11	0.061	0.072
	LTE Band 48	20M	QPSK	1	0	-	Front	10mm	Ant 7	DSI 4	55830	3609	18.66	19.50	1.213	62.9	1.006	0.18	0.035	0.043
	LTE Band 48	20M	QPSK	50	0	-	Front	10mm	Ant 7	DSI 4	55830	3609	18.62	19.50	1.225	62.9	1.006	0.11	0.030	0.037
51	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	55830	3609	18.66	19.50	1.213	62.9	1.006	-0.09	0.875	**1.068**
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	55340	3560	18.55	19.50	1.245	62.9	1.006	0.04	0.676	0.846
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	56150	3641	18.51	19.50	1.256	62.9	1.006	-0.06	0.817	1.032
	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	56640	3690	18.56	19.50	1.242	62.9	1.006	0.15	0.582	0.727
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	55830	3609	18.62	19.50	1.225	62.9	1.006	0.07	0.853	1.051
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	55340	3560	18.58	19.50	1.236	62.9	1.006	0.05	0.687	0.854
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	56150	3641	18.55	19.50	1.245	62.9	1.006	0.03	0.842	1.054
	LTE Band 48	20M	QPSK	50	0	-	Back	10mm	Ant 7	DSI 4	56640	3690	18.55	19.50	1.245	62.9	1.006	0.03	0.595	0.745
	LTE Band 48	20M	QPSK	100	0	-	Back	10mm	Ant 7	DSI 4	55830	3609	18.59	19.50	1.233	62.9	1.006	-0.13	0.845	1.048
	LTE Band 48	20M	QPSK	1	0	-	Left Side	10mm	Ant 7	DSI 4	55830	3609	18.66	19.50	1.213	62.9	1.006	0.05	0.217	0.265
	LTE Band 48	20M	QPSK	50	0	-	Left Side	10mm	Ant 7	DSI 4	55830	3609	18.62	19.50	1.225	62.9	1.006	0.02	0.222	0.273
	LTE Band 48	20M	QPSK	1	0	-	Top Side	10mm	Ant 7	DSI 4	55830	3609	18.66	19.50	1.213	62.9	1.006	0.09	0.027	0.033

	LTE Band 48	20M	QPSK	50	0	-	Top Side	10mm	Ant 7	DSI 4	55830	3609	18.62	19.50	1.225	62.9	1.006	0.05	0.049	0.060
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	656000	3840	17.12	18.50	1.374	-	-	0.08	0.090	0.124
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	656000	3840	17.04	18.50	1.400	-	-	0.04	0.086	0.120
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	656000	3840	17.12	18.50	1.374	-	-	0.05	0.252	0.346
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	656000	3840	17.04	18.50	1.400	-	-	0.18	0.080	0.112
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	656000	3840	17.12	18.50	1.374	-	-	0.09	0.085	0.117
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	656000	3840	17.04	18.50	1.400	-	-	0.09	0.060	0.084
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	656000	3840	17.12	18.50	1.374	-	-	0.07	0.321	0.441
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	656000	3840	17.04	18.50	1.400	-	-	0.06	0.291	0.407
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	656000	3840	20.22	21.50	1.343	50	1.000	0.09	0.347	0.466
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	633334	3500.01	17.25	18.50	1.334	-	-	-0.1	0.120	0.160
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	633334	3500.01	17.17	18.50	1.358	-	-	0.11	0.113	0.153
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	633334	3500.01	17.25	18.50	1.334	-	-	-0.1	0.330	0.440
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	633334	3500.01	17.17	18.50	1.358	-	-	-0.13	0.330	0.448
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	633334	3500.01	17.25	18.50	1.334	-	-	-0.18	0.179	0.239
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	633334	3500.01	17.17	18.50	1.358	-	-	-0.09	0.156	0.212
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	633334	3500.01	17.25	18.50	1.334	-	-	0.03	0.409	0.545
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	633334	3500.01	17.17	18.50	1.358	-	-	-0.11	0.337	0.458
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	633334	3500.01	20.45	21.50	1.274	50	1.000	0.09	0.462	0.588
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	656000	3840	16.69	17.50	1.205	-	-	0.05	0.101	0.122
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	656000	3840	16.62	17.50	1.225	-	-	-0.06	0.116	0.142
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	656000	3840	16.69	17.50	1.205	-	-	-0.08	0.098	0.118
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	656000	3840	16.62	17.50	1.225	-	-	0.03	0.115	0.141
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	656000	3840	16.69	17.50	1.205	-	-	0.01	0.033	0.040
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	656000	3840	16.62	17.50	1.225	-	-	-0.12	0.039	0.048
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	656000	3840	16.69	17.50	1.205	-	-	0.02	0.081	0.098
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	656000	3840	16.62	17.50	1.225	-	-	0.02	0.099	0.121
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	656000	3840	16.69	17.50	1.205	-	-	-0.18	0.281	0.339
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	656000	3840	16.62	17.50	1.225	-	-	-0.13	0.299	0.366
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	656000	3840	19.64	20.50	1.219	50	1.000	0.01	0.316	0.385
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.82	17.50	1.169	-	-	0.08	0.106	0.124
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.73	17.50	1.194	-	-	0.08	0.095	0.113
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.82	17.50	1.169	-	-	0.07	0.145	0.170
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.73	17.50	1.194	-	-	-0.08	0.132	0.158
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.82	17.50	1.169	-	-	0.06	0.034	0.040
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.73	17.50	1.194	-	-	-0.17	0.049	0.059
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.82	17.50	1.169	-	-	0.13	0.072	0.084
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.73	17.50	1.194	-	-	0.08	0.084	0.100
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.82	17.50	1.169	-	-	-0.17	0.255	0.298
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.73	17.50	1.194	-	-	0.06	0.176	0.210
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	20.15	20.50	1.084	50	1.000	0.17	0.301	0.326
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	656000	3840	15.30	16.50	1.318	-	-	0.05	0.210	0.277
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	656000	3840	15.28	16.50	1.324	-	-	0.09	0.173	0.229
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	656000	3840	15.30	16.50	1.318	-	-	-0.14	0.182	0.240
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	656000	3840	15.28	16.50	1.324	-	-	-0.01	0.202	0.268
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	656000	3840	15.30	16.50	1.318	-	-	0.06	0.428	0.564
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	656000	3840	15.28	16.50	1.324	-	-	0.03	0.387	0.513
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	656000	3840	15.30	16.50	1.318	-	-	0.09	0.079	0.104
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	656000	3840	15.28	16.50	1.324	-	-	0.12	0.089	0.118
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	656000	3840	18.06	19.50	1.393	50	1.000	-0.07	0.435	0.606
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.22	16.50	1.343	-	-	0.08	0.142	0.191
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.50	1.365	-	-	-0.01	0.183	0.250
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.22	16.50	1.343	-	-	0.06	0.137	0.184
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.50	1.365	-	-	0.17	0.177	0.242
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.22	16.50	1.343	-	-	0.15	0.325	0.436
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.50	1.365	-	-	0.17	0.371	0.506

	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.22	16.50	1.343	-	-	0.01	0.066	0.089
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	15.15	16.50	1.365	-	-	-0.13	0.056	0.076
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	18.20	19.50	1.349	50	1.000	0.05	0.407	0.549
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	656000	3840	16.46	18.00	1.426	-	-	-0.04	0.032	0.046
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	656000	3840	16.38	18.00	1.452	-	-	-0.05	0.041	0.060
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	656000	3840	16.46	18.00	1.426	-	-	-0.05	0.281	0.401
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	656000	3840	16.38	18.00	1.452	-	-	0.08	0.297	0.431
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	656000	3840	16.46	18.00	1.426	-	-	0.07	0.118	0.168
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	656000	3840	16.38	18.00	1.452	-	-	0.04	0.105	0.152
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	656000	3840	16.46	18.00	1.426	-	-	0.03	0.042	0.060
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	656000	3840	16.38	18.00	1.452	-	-	-0.13	0.038	0.055
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	656000	3840	19.34	21.00	1.466	50	1.000	-0.16	0.300	0.440
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	633334	3500.01	16.51	18.00	1.409	-	-	-0.17	0.094	0.132
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	633334	3500.01	16.39	18.00	1.449	-	-	0.15	0.090	0.130
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	16.51	18.00	1.409	-	-	0.07	0.615	0.867
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	16.39	18.00	1.449	-	-	0.02	0.639	0.926
	FR1 n77 PC3	100M	QPSK	270	0	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	16.22	18.00	1.507	-	-	0.04	0.600	0.904
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	16.51	18.00	1.409	-	-	0.03	0.213	0.300
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	16.39	18.00	1.449	-	-	0.09	0.187	0.271
	FR1 n77 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	16.51	18.00	1.409	-	-	0.07	0.081	0.114
	FR1 n77 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	16.39	18.00	1.449	-	-	0.09	0.092	0.133
52	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	19.26	21.00	1.493	50	1.000	-0.02	0.680	**1.015**
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	650000	3750	17.15	18.00	1.216	-	-	-0.15	0.149	0.181
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	650000	3750	17.10	18.00	1.230	-	-	0.15	0.148	0.182
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	650000	3750	17.15	18.00	1.216	-	-	-0.1	0.292	0.355
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	650000	3750	17.10	18.00	1.230	-	-	0.16	0.243	0.299
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	650000	3750	17.15	18.00	1.216	-	-	-0.18	0.232	0.282
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	650000	3750	17.10	18.00	1.230	-	-	0.07	0.163	0.201
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	650000	3750	17.15	18.00	1.216	-	-	0.04	0.315	0.383
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	650000	3750	17.10	18.00	1.230	-	-	-0.08	0.284	0.349
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	650000	3750	20.01	21.00	1.256	50	1.000	0.09	0.326	0.409
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	633334	3500.01	17.44	18.00	1.138	-	-	0.06	0.080	0.091
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 1	DSI 4	633334	3500.01	17.40	18.00	1.148	-	-	-0.1	0.070	0.080
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	633334	3500.01	17.44	18.00	1.138	-	-	0.14	0.217	0.247
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 1	DSI 4	633334	3500.01	17.40	18.00	1.148	-	-	-0.1	0.231	0.265
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	633334	3500.01	17.44	18.00	1.138	-	-	0.02	0.114	0.130
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 1	DSI 4	633334	3500.01	17.40	18.00	1.148	-	-	-0.12	0.105	0.121
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	633334	3500.01	17.44	18.00	1.138	-	-	-0.04	0.236	0.268
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	633334	3500.01	17.40	18.00	1.148	-	-	0.05	0.225	0.258
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 1	DSI 4	633334	3500.01	20.29	21.00	1.178	50	1.000	0.11	0.245	0.289
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	650000	3750	16.32	17.00	1.169	-	-	0.02	0.107	0.125
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	650000	3750	16.28	17.00	1.180	-	-	0.05	0.111	0.131
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	650000	3750	16.32	17.00	1.169	-	-	0.05	0.103	0.120
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	650000	3750	16.28	17.00	1.180	-	-	-0.06	0.141	0.166
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	650000	3750	16.32	17.00	1.169	-	-	0.04	0.042	0.049
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	650000	3750	16.28	17.00	1.180	-	-	-0.15	0.047	0.055
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	650000	3750	16.32	17.00	1.169	-	-	0.08	0.071	0.083
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	650000	3750	16.28	17.00	1.180	-	-	0.16	0.084	0.099
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	650000	3750	16.32	17.00	1.169	-	-	0.07	0.265	0.310
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	650000	3750	16.28	17.00	1.180	-	-	0.13	0.303	0.358
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	650000	3750	19.30	20.00	1.175	50	1.000	0.02	0.316	0.371
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.28	17.00	1.180	-	-	0.06	0.099	0.117
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 5	DSI 4	633334	3500.01	16.12	17.00	1.225	-	-	0.03	0.087	0.107
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.28	17.00	1.180	-	-	0.09	0.132	0.156
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 5	DSI 4	633334	3500.01	16.12	17.00	1.225	-	-	-0.03	0.127	0.156
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.28	17.00	1.180	-	-	0.15	0.041	0.048

	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 5	DSI 4	633334	3500.01	16.12	17.00	1.225	-	-	0.08	0.038	0.047
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.28	17.00	1.180	-	-	0.08	0.058	0.068
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 5	DSI 4	633334	3500.01	16.12	17.00	1.225	-	-	0.05	0.074	0.091
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.28	17.00	1.180	-	-	0.12	0.263	0.310
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	16.12	17.00	1.225	-	-	-0.18	0.244	0.299
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 5	DSI 4	633334	3500.01	19.39	20.00	1.151	50	1.000	0.05	0.295	0.339
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	650000	3750	14.66	15.50	1.213	-	-	0.03	0.124	0.150
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	650000	3750	14.57	15.50	1.239	-	-	0.17	0.099	0.123
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	650000	3750	14.66	15.50	1.213	-	-	-0.05	0.106	0.129
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	650000	3750	14.57	15.50	1.239	-	-	0.18	0.097	0.120
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	650000	3750	14.66	15.50	1.213	-	-	0.17	0.283	0.343
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	650000	3750	14.57	15.50	1.239	-	-	0.09	0.196	0.243
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	650000	3750	14.66	15.50	1.213	-	-	-0.13	0.045	0.055
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	650000	3750	14.57	15.50	1.239	-	-	0.09	0.063	0.078
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	650000	3750	17.63	18.50	1.222	50	1.000	-0.03	0.302	0.369
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	633334	3500.01	14.69	15.50	1.205	-	-	0.07	0.105	0.127
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 6	DSI 4	633334	3500.01	14.63	15.50	1.222	-	-	0.01	0.150	0.183
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	633334	3500.01	14.69	15.50	1.205	-	-	-0.04	0.097	0.117
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 6	DSI 4	633334	3500.01	14.63	15.50	1.222	-	-	0.04	0.124	0.152
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	14.69	15.50	1.205	-	-	0.08	0.234	0.282
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	14.63	15.50	1.222	-	-	0.17	0.266	0.325
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	14.69	15.50	1.205	-	-	0.04	0.056	0.067
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 6	DSI 4	633334	3500.01	14.63	15.50	1.222	-	-	-0.11	0.053	0.065
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	10mm	Ant 6	DSI 4	633334	3500.01	17.77	18.50	1.183	50	1.000	0.09	0.300	0.355
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	650000	3750	16.93	18.00	1.279	-	-	-0.15	0.053	0.068
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	650000	3750	16.87	18.00	1.297	-	-	0.09	0.038	0.049
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	650000	3750	16.93	18.00	1.279	-	-	0.12	0.515	0.659
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	650000	3750	16.87	18.00	1.297	-	-	0.08	0.388	0.503
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	650000	3750	16.93	18.00	1.279	-	-	-0.05	0.114	0.146
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	650000	3750	16.87	18.00	1.297	-	-	0.02	0.120	0.156
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	650000	3750	16.93	18.00	1.279	-	-	0.07	0.052	0.067
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	650000	3750	16.87	18.00	1.297	-	-	-0.18	0.034	0.044
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	650000	3750	19.97	21.00	1.268	50	1.000	-0.02	0.526	0.667
	FR1 n78_ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	650000	3750	17.89	19.00	1.291	50	1.000	-0.09	0.322	0.416
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	633334	3500.01	17.35	18.00	1.161	-	-	0.04	0.064	0.074
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Front	10mm	Ant 7	DSI 4	633334	3500.01	17.17	18.00	1.211	-	-	0.07	0.042	0.051
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	17.35	18.00	1.161	-	-	0.04	0.589	0.684
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	17.17	18.00	1.211	-	-	-0.06	0.636	0.770
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	17.35	18.00	1.161	-	-	0.07	0.173	0.201
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	10mm	Ant 7	DSI 4	633334	3500.01	17.17	18.00	1.211	-	-	0.04	0.187	0.226
	FR1 n78 PC3	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	17.35	18.00	1.161	-	-	0.03	0.030	0.035
	FR1 n78 PC3	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	10mm	Ant 7	DSI 4	633334	3500.01	17.17	18.00	1.211	-	-	-0.15	0.052	0.063
53	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	19.98	21.00	1.265	50	1.000	-0.02	0.666	**0.842**
	FR1 n78_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Back	10mm	Ant 7	DSI 4	633334	3500.01	17.90	19.00	1.288	50	1.000	0.03	0.403	0.519

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 17+6(6)	Full Power	1	2412	17.70	19.00	1.349	98.47	1.016	0.05	0.188	0.258
	WLAN2.4GHz	802.11b 1Mbps	Back	10mm	Ant 17+6(6)	Full Power	1	2412	17.70	19.00	1.349	98.47	1.016	0.01	0.306	0.419
54	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 17+6(6)	Full Power	1	2412	17.70	19.00	1.349	98.47	1.016	0.06	0.404	**0.554**
	WLAN2.4GHz	802.11b 1Mbps	Top Side	10mm	Ant 17+6(6)	Full Power	1	2412	17.70	19.00	1.349	98.47	1.016	0.05	0.179	0.245
	WLAN2.4GHz	802.11b 1Mbps	Right Side	10mm	Ant 17+6(6)	DBS	1	2412	14.31	15.50	1.315	98.47	1.016	0.04	0.183	0.245
	Bluetooth	1Mbps	Front	10mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.03	0.036	0.049
	Bluetooth	1Mbps	Back	10mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.03	0.041	0.055
	Bluetooth	1Mbps	Right Side	10mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.14	0.010	0.014
	Bluetooth	1Mbps	Top Side	10mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.05	0.110	0.149
	Bluetooth	1Mbps	Front	10mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	0.02	0.082	0.117
	Bluetooth	1Mbps	Back	10mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	0.03	0.057	0.081
55	Bluetooth	1Mbps	Right Side	10mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	-0.07	0.134	**0.191**
	Bluetooth	1Mbps	Top Side	10mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	0.13	0.001	0.001
5000MHz																
	WLAN5.2GHz	802.11a 6Mbps	Front	10mm	Ant 5+18	Full Power	44	5220	20.50	22.00	1.414	96.55	1.036	0.07	0.255	0.373
	WLAN5.2GHz	802.11a 6Mbps	Back	10mm	Ant 5+18	Full Power	44	5220	20.50	22.00	1.414	96.55	1.036	0.02	0.311	0.455
	WLAN5.2GHz	802.11a 6Mbps	Right Side	10mm	Ant 5+18	Full Power	44	5220	20.50	22.00	1.414	96.55	1.036	0.01	0.287	0.420
56	WLAN5.2GHz	802.11a 6Mbps	Top Side	10mm	Ant 5+18	Full Power	44	5220	20.50	22.00	1.414	96.55	1.036	0.05	0.618	**0.905**
	WLAN5.2GHz	802.11a 6Mbps	Top Side	10mm	Ant 5+18	Full Power	36	5180	20.50	22.00	1.412	96.55	1.036	0.04	0.609	0.891
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+18	non DBS	38	5190	18.16	19.50	1.360	96.55	1.036	0.04	0.301	0.424
	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+18	DBS	38	5190	15.09	16.50	1.384	96.55	1.036	0.02	0.157	0.225
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	10mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.06	0.037	0.054
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	-0.01	0.058	0.085
	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	10mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.04	0.089	0.130
57	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	10mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.05	0.105	**0.153**

15.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
										750MHz										
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	23095	707.5	24.56	25.50	1.242	-	-	-0.14	0.088	0.109
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 3	23095	707.5	23.74	24.50	1.191	-	-	0.04	0.135	0.161
58	LTE Band 12_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	23095	707.5	24.56	25.50	1.242	-	-	0.01	0.142	**0.176**
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 3	23095	707.5	23.74	24.50	1.191	-	-	0.12	0.137	0.163
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	23095	707.5	23.74	25.50	1.500	-	-	0.07	0.108	0.162
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Front	15mm	Ant 1	DSI 3	23095	707.5	22.76	24.50	1.493	-	-	0.16	0.089	0.133
	LTE Band 12_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	23095	707.5	23.74	25.50	1.500	-	-	0.07	0.112	0.168
	LTE Band 12_Other PA	10M	QPSK	25	0	-	Back	15mm	Ant 1	DSI 3	23095	707.5	22.76	24.50	1.493	-	-	-0.07	0.093	0.139
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	23230	782	24.64	25.50	1.219	-	-	-0.17	0.263	0.321
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 0	DSI 3	23230	782	23.98	24.50	1.127	-	-	-0.16	0.215	0.242
59	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	23230	782	24.64	25.50	1.219	-	-	-0.02	0.264	**0.322**
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 0	DSI 3	23230	782	23.98	24.50	1.127	-	-	0.06	0.210	0.237
	LTE Band 13	10M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	23230	782	23.98	25.50	1.419	-	-	-0.12	0.107	0.152
	LTE Band 13	10M	QPSK	25	0	-	Front	15mm	Ant 1	DSI 3	23230	782	22.90	24.50	1.445	-	-	-0.18	0.086	0.124
	LTE Band 13	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	23230	782	23.98	25.50	1.419	-	-	0.03	0.113	0.160
	LTE Band 13	10M	QPSK	25	0	-	Back	15mm	Ant 1	DSI 3	23230	782	22.90	24.50	1.445	-	-	0.07	0.090	0.130
										835MHz										
	GSM850					GPRS (4 Tx slots)	Front	15mm	Ant 0	DSI 3	189	836.4	26.95	28.00	1.274	-	-	0.04	0.211	0.269
60	GSM850					GPRS (4 Tx slots)	Back	15mm	Ant 0	DSI 3	189	836.4	26.95	28.00	1.274	-	-	-0.06	0.212	**0.270**
	GSM850					GPRS (4 Tx slots)	Front	15mm	Ant 1	DSI 3	189	836.4	26.07	27.50	1.390	-	-	-0.15	0.101	0.140
	GSM850					GPRS (4 Tx slots)	Back	15mm	Ant 1	DSI 3	189	836.4	26.07	27.50	1.390	-	-	0.02	0.116	0.161
	WCDMA V					RMC 12.2Kbps	Front	15mm	Ant 0	DSI 3	4182	836.4	24.16	25.00	1.213	-	-	-0.06	0.230	0.279
61	WCDMA V					RMC 12.2Kbps	Back	15mm	Ant 0	DSI 3	4182	836.4	24.16	25.00	1.213	-	-	-0.05	0.233	**0.283**
	WCDMA V					RMC 12.2Kbps	Front	15mm	Ant 1	DSI 3	4182	836.4	23.36	25.00	1.459	-	-	0.01	0.112	0.163
	WCDMA V					RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	4182	836.4	23.36	25.00	1.459	-	-	0.15	0.139	0.203
62	LTE Band 26_Main PA	15M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	26865	831.5	24.58	25.50	1.236	-	-	0.12	0.215	**0.266**
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Front	15mm	Ant 0	DSI 3	26865	831.5	23.63	24.50	1.222	-	-	0.16	0.165	0.202
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Back	15mm	Ant 0	DSI 3	26865	831.5	24.58	25.50	1.236	-	-	-0.04	0.210	0.260
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Back	15mm	Ant 0	DSI 3	26865	831.5	23.63	24.50	1.222	-	-	-0.16	0.169	0.206
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Front	15mm	Ant 0	DSI 3	20525	836.5	24.85	25.50	1.161	-	-	0.15	0.202	0.235
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	26865	831.5	23.77	25.50	1.489	-	-	-0.1	0.113	0.168
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Front	15mm	Ant 1	DSI 3	26865	831.5	22.74	24.50	1.500	-	-	-0.03	0.088	0.132
	LTE Band 26_Main PA	15M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	26865	831.5	23.77	25.50	1.489	-	-	-0.06	0.148	0.220
	LTE Band 26_Main PA	15M	QPSK	36	0	-	Back	15mm	Ant 1	DSI 3	26865	831.5	22.74	24.50	1.500	-	-	-0.17	0.117	0.175
	LTE Band 5_Other PA	10M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	20525	836.5	23.98	25.50	1.419	-	-	-0.14	0.130	0.184
63	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 3	167300	836.5	24.63	25.50	1.222	-	-	-0.04	0.202	**0.247**
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 3	167300	836.5	24.61	25.50	1.227	-	-	0.01	0.182	0.223
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 3	167300	836.5	24.63	25.50	1.222	-	-	0.05	0.175	0.214
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 0	DSI 3	167300	836.5	24.61	25.50	1.227	-	-	0.05	0.194	0.238
	FR1 n5_Other PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	DSI 3	167300	836.5	24.56	25.50	1.242	-	-	0.04	0.186	0.231
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 3	167300	836.5	23.73	25.50	1.503	-	-	0.06	0.092	0.138
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 3	167300	836.5	23.66	25.50	1.528	-	-	0.08	0.120	0.183
	FR1 n5_Main PA	20M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	167300	836.5	23.73	25.50	1.503	-	-	0.13	0.119	0.179
	FR1 n5_Main PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	167300	836.5	23.66	25.50	1.528	-	-	0.02	0.150	0.229
	FR1 n5_Other PA	20M	QPSK	50	28	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	167300	836.5	23.71	25.50	1.510	-	-	-0.14	0.138	0.208
										1750MHz										
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 3	1413	1732.6	22.19	24.00	1.517	-	-	-0.15	0.247	0.375
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	1413	1732.6	22.19	24.00	1.517	-	-	0.06	0.306	0.464
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	DSI 3	1413	1732.6	23.57	25.00	1.390	-	-	0.07	0.342	0.475
64	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	1413	1732.6	23.57	25.00	1.390	-	-	0.02	0.418	**0.581**
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	20175	1732.5	24.59	25.50	1.233	-	-	0.02	0.221	0.273

	LTE Band 4_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	20175	1732.5	23.53	24.50	1.250	-	-	0.09	0.266	0.333
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	20175	1732.5	24.59	25.50	1.233	-	-	0.07	0.223	0.275
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	20175	1732.5	23.53	24.50	1.250	-	-	0.16	0.312	0.390
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	20175	1732.5	21.85	23.50	1.462	-	-	0.14	0.263	0.385
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 3	20175	1732.5	24.52	25.70	1.312	-	-	-0.12	0.364	0.478
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 3	20175	1732.5	23.74	24.70	1.247	-	-	0.01	0.297	0.370
65	LTE Band 4_Main PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	20175	1732.5	24.52	25.70	1.312	-	-	-0.05	0.404	**0.530**
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	20175	1732.5	23.74	24.70	1.247	-	-	0.08	0.374	0.467
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	20175	1732.5	23.85	24.50	1.161	-	-	-0.12	0.381	0.443
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	20175	1732.5	24.17	25.50	1.358	-	-	0.04	0.110	0.149
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	20175	1732.5	23.12	24.50	1.374	-	-	0.17	0.139	0.191
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	20175	1732.5	24.17	25.50	1.358	-	-	-0.18	0.084	0.114
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	20175	1732.5	23.12	24.50	1.374	-	-	-0.11	0.109	0.150
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	20175	1732.5	21.55	23.50	1.567	-	-	0.01	0.103	0.161
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 3	20175	1732.5	24.36	25.50	1.300	-	-	0.05	0.010	0.013
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 3	20175	1732.5	23.53	24.50	1.250	-	-	0.12	0.010	0.013
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	20175	1732.5	24.36	25.50	1.300	-	-	-0.01	0.013	0.017
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 3	20175	1732.5	23.53	24.50	1.250	-	-	0.02	0.010	0.013
	LTE Band 4_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	20175	1732.5	23.27	24.50	1.327	-	-	0.04	0.010	0.013
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	132322	1745	24.78	25.50	1.180	-	-	-0.06	0.376	0.444
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	132322	1745	23.71	24.50	1.199	-	-	0.09	0.299	0.359
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	132322	1745	24.78	25.50	1.180	-	-	-0.09	0.419	0.495
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	132322	1745	23.71	24.50	1.199	-	-	-0.02	0.343	0.411
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	132322	1745	22.27	24.00	1.489	-	-	0.02	0.277	0.413
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 3	132322	1745	23.61	24.50	1.227	-	-	-0.09	0.325	0.399
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 3	132322	1745	22.72	23.50	1.197	-	-	0.17	0.257	0.308
66	LTE Band 66_Main PA	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	132322	1745	23.61	24.50	1.227	-	-	-0.01	0.405	**0.497**
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	132322	1745	22.72	23.50	1.197	-	-	0.03	0.328	0.393
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	132322	1745	24.33	25.50	1.309	-	-	-0.12	0.171	0.224
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	132322	1745	23.21	24.50	1.346	-	-	0.11	0.150	0.202
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	132322	1745	24.33	25.50	1.309	-	-	0.06	0.068	0.089
	LTE Band 66_Other PA	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	132322	1745	23.21	24.50	1.346	-	-	0.06	0.157	0.211
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	132322	1745	21.63	23.50	1.538	-	-	-0.1	0.068	0.105
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 3	132322	1745	23.33	24.50	1.309	-	-	0.06	0.010	0.013
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 3	132322	1745	22.52	23.50	1.253	-	-	0.15	0.010	0.013
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	132322	1745	23.33	24.50	1.309	-	-	-0.14	0.050	0.065
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 3	132322	1745	22.52	23.50	1.253	-	-	0.07	0.010	0.013
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 3	349000	1745	24.77	25.50	1.183	-	-	0.06	0.358	0.424
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 3	349000	1745	24.48	25.50	1.265	-	-	0.14	0.367	0.464
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	349000	1745	24.77	25.50	1.183	-	-	0.04	0.379	0.448
67	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	349000	1745	24.48	25.50	1.265	-	-	0.01	0.424	**0.536**
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	349000	1745	22.22	24.00	1.507	-	-	-0.16	0.246	0.371
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	DSI 3	349000	1745	23.90	24.50	1.148	-	-	-0.04	0.279	0.320
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	15mm	Ant 2	DSI 3	349000	1745	23.82	24.50	1.169	-	-	0.03	0.311	0.364
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 3	349000	1745	23.90	24.50	1.148	-	-	0.07	0.362	0.416
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 3	349000	1745	23.82	24.50	1.169	-	-	0.01	0.386	0.451
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 3	349000	1745	24.01	25.00	1.256	-	-	-0.1	0.372	0.467
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	DSI 3	349000	1745	24.93	25.50	1.140	-	-	0.03	0.167	0.190
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	15mm	Ant 3	DSI 3	349000	1745	24.83	25.50	1.167	-	-	0.08	0.220	0.257
	FR1 n66_Other PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	DSI 3	349000	1745	24.93	25.50	1.140	-	-	0.04	0.135	0.154
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 3	DSI 3	349000	1745	24.83	25.50	1.167	-	-	0.03	0.181	0.211
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	15mm	Ant 3	DSI 3	349000	1745	21.67	23.50	1.524	-	-	0.05	0.090	0.137
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 4	DSI 3	349000	1745	23.76	24.50	1.186	-	-	0.06	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Front	15mm	Ant 4	DSI 3	349000	1745	23.65	24.50	1.216	-	-	0.07	0.010	0.012
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 3	349000	1745	23.76	24.50	1.186	-	-	-0.11	0.040	0.047
	FR1 n66_Main PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 3	349000	1745	23.65	24.50	1.216	-	-	0.07	0.010	0.012
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 3	349000	1745	23.46	24.50	1.271	-	-	-0.11	0.032	0.041

	1900MHz																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 1	DSI 3	661	1880	22.47	24.00	1.422	-	-	0.08	0.097	0.138
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 1	DSI 3	661	1880	22.47	24.00	1.422	-	-	0.02	0.125	0.178
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 2	DSI 3	661	1880	24.02	25.00	1.253	-	-	0.07	0.169	0.212
68	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	15mm	Ant 2	DSI 3	661	1880	24.02	25.00	1.253	-	-	0.02	0.237	**0.297**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	DSI 3	9400	1880	22.12	24.00	1.542	-	-	0.07	0.331	0.510
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 1	DSI 3	9400	1880	22.12	24.00	1.542	-	-	0.16	0.423	0.652
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 2	DSI 3	9400	1880	23.61	25.00	1.377	-	-	0.06	0.401	0.552
69	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	15mm	Ant 2	DSI 3	9400	1880	23.61	25.00	1.377	-	-	0.02	0.509	**0.701**
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 3	18900	1880	23.60	25.00	1.380	-	-	0.01	0.359	0.496
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 3	18900	1880	22.76	24.00	1.330	-	-	0.07	0.302	0.402
70	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	18900	1880	23.60	25.00	1.380	-	-	-0.03	0.387	**0.534**
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	18900	1880	22.76	24.00	1.330	-	-	0.04	0.383	0.510
	LTE Band 2	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 3	18900	1880	23.35	24.50	1.303	-	-	0.03	0.149	0.194
	LTE Band 2	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 3	18900	1880	22.42	23.50	1.282	-	-	0.06	0.117	0.150
	LTE Band 2	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	18900	1880	23.35	24.50	1.303	-	-	0.09	0.190	0.248
	LTE Band 2	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 3	18900	1880	22.42	23.50	1.282	-	-	0.02	0.154	0.197
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 3	26340	1880	23.66	25.00	1.361	-	-	-0.17	0.377	0.513
	LTE Band 25	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 3	26340	1880	22.73	24.00	1.340	-	-	0.11	0.304	0.407
71	LTE Band 25	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	26340	1880	23.66	25.00	1.361	-	-	0.01	0.503	**0.685**
	LTE Band 25	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	26340	1880	22.73	24.00	1.340	-	-	0.09	0.404	0.541
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 3	26340	1880	23.42	24.50	1.282	-	-	-0.03	0.109	0.140
	LTE Band 25	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 3	26340	1880	22.35	23.50	1.303	-	-	-0.11	0.090	0.117
	LTE Band 25	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	26340	1880	23.42	24.50	1.282	-	-	0.08	0.160	0.205
	LTE Band 25	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 3	26340	1880	22.35	23.50	1.303	-	-	0.08	0.130	0.169
	2600MHz																			
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	21100	2535	23.47	24.00	1.130	-	-	0.04	0.193	0.218
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	21100	2535	22.53	23.00	1.114	-	-	-0.18	0.155	0.173
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	21100	2535	23.47	24.00	1.130	-	-	0.03	0.306	0.346
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 1	DSI 3	21100+21298	2535+2554.8	23.06	24.00	1.242	-	-	0.01	0.265	0.329
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	21100	2535	22.53	23.00	1.114	-	-	0.05	0.242	0.270
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 3	21100	2535	23.79	24.50	1.178	-	-	0.07	0.327	0.385
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 3	21100	2535	23.75	24.50	1.189	-	-	0.06	0.256	0.304
72	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	21100	2535	23.79	24.50	1.178	-	-	0.01	0.415	**0.489**
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 2	DSI 3	21100+21298	2535+2554.8	23.31	24.50	1.315	-	-	0.09	0.366	0.481
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	21100	2535	23.75	24.50	1.189	-	-	-0.16	0.315	0.374
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	21100	2535	22.66	24.00	1.361	-	-	0.16	0.187	0.255
	LTE Band 7C	20M	QPSK	1	99	-	Front	15mm	Ant 3	DSI 3	21100+21298	2535+2554.8	22.30	24.00	1.479	-	-	0.05	0.157	0.232
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	21100	2535	21.95	23.00	1.274	-	-	-0.13	0.151	0.192
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	21100	2535	22.66	24.00	1.361	-	-	-0.19	0.139	0.189
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	21100	2535	21.95	23.00	1.274	-	-	0.04	0.111	0.141
	LTE Band 7	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 3	21100	2535	21.33	22.00	1.167	-	-	-0.13	0.207	0.242
	LTE Band 7	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 3	21100	2535	21.26	22.00	1.186	-	-	0.1	0.214	0.254
	LTE Band 7	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	21100	2535	21.33	22.00	1.167	-	-	-0.1	0.279	0.326
	LTE Band 7C	20M	QPSK	1	99	-	Back	15mm	Ant 4	DSI 3	21100+21298	2535+2554.8	20.85	22.00	1.303	-	-	0.06	0.236	0.308
	LTE Band 7	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 3	21100	2535	21.26	22.00	1.186	-	-	0.03	0.275	0.326
	LTE Band 38	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	38000	2595	23.73	25.00	1.340	62.9	1.006	0.05	0.087	0.117
	LTE Band 38	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	38000	2595	22.92	24.00	1.282	62.9	1.006	0.1	0.088	0.114
73	LTE Band 38	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	38000	2595	23.73	25.00	1.340	62.9	1.006	-0.03	0.117	**0.158**
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 1	DSI 3	37901+38099	2585.1+2604.9	23.31	25.00	1.476	62.9	1.006	0.09	0.103	0.153
	LTE Band 38	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	38000	2595	22.92	24.00	1.282	62.9	1.006	0.09	0.106	0.137
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	40620	2593	23.81	24.50	1.172	62.9	1.006	0.09	0.190	0.224
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	40620	2593	23.02	23.50	1.117	62.9	1.006	0.04	0.167	0.188
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	40620	2593	23.81	24.50	1.172	62.9	1.006	0.06	0.272	0.321
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	40620	2593	23.02	23.50	1.117	62.9	1.006	0.17	0.236	0.265
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 2	DSI 3	40620	2593	25.38	25.50	1.028	62.9	1.006	0.02	0.258	0.267
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 2	DSI 3	40620	2593	24.46	24.50	1.009	62.9	1.006	-0.15	0.221	0.224

74	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 2	DSI 3	40620	2593	25.38	25.50	1.028	62.9	1.006	-0.06	0.349	**0.361**
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 2	DSI 3	37901+38099	2585.1+2604.9	24.94	25.50	1.138	62.9	1.006	0.03	0.311	0.356
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 2	DSI 3	40620	2593	24.46	24.50	1.009	62.9	1.006	-0.01	0.295	0.300
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 3	DSI 3	40620	2593	23.25	24.50	1.334	62.9	1.006	0.03	0.177	0.237
	LTE Band 38C	20M	QPSK	1	99	-	Front	15mm	Ant 3	DSI 3	37901+38099	2585.1+2604.9	22.62	24.50	1.542	62.9	1.006	0.01	0.144	0.223
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 3	DSI 3	40620	2593	22.41	23.50	1.285	62.9	1.006	0.02	0.155	0.200
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 3	DSI 3	40620	2593	23.25	24.50	1.334	62.9	1.006	-0.15	0.149	0.200
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 3	DSI 3	40620	2593	22.41	23.50	1.285	62.9	1.006	0.02	0.128	0.166
	LTE Band 41	20M	QPSK	1	0	-	Front	15mm	Ant 4	DSI 3	40620	2593	23.86	24.20	1.081	62.9	1.006	0.14	0.230	0.250
	LTE Band 41	20M	QPSK	50	0	-	Front	15mm	Ant 4	DSI 3	40620	2593	23.85	24.20	1.084	62.9	1.006	-0.04	0.174	0.190
	LTE Band 41	20M	QPSK	1	0	-	Back	15mm	Ant 4	DSI 3	40620	2593	23.86	24.20	1.081	62.9	1.006	-0.09	0.300	0.326
	LTE Band 38C	20M	QPSK	1	99	-	Back	15mm	Ant 4	DSI 3	37901+38099	2585.1+2604.9	23.35	24.20	1.216	62.9	1.006	0.02	0.264	0.323
	LTE Band 41	20M	QPSK	50	0	-	Back	15mm	Ant 4	DSI 3	40620	2593	23.85	24.20	1.084	62.9	1.006	-0.07	0.246	0.268
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 3	507000	2535	23.33	24.00	1.167	-	-	-0.07	0.214	0.250
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 1	DSI 3	507000	2535	23.26	24.00	1.186	-	-	0.04	0.223	0.264
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	507000	2535	23.33	24.00	1.167	-	-	-0.18	0.316	0.369
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 1	DSI 3	507000	2535	23.26	24.00	1.186	-	-	0.12	0.324	0.384
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 2	DSI 3	507000	2535	24.92	25.70	1.197	-	-	-0.05	0.357	0.427
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 2	DSI 3	507000	2535	24.85	25.70	1.216	-	-	0.03	0.316	0.384
75	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 3	507000	2535	24.92	25.70	1.197	-	-	-0.08	0.447	**0.535**
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 2	DSI 3	507000	2535	24.85	25.70	1.216	-	-	0.03	0.429	0.522
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 3	DSI 3	507000	2535	22.74	24.00	1.337	-	-	0.03	0.186	0.249
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 3	DSI 3	507000	2535	22.62	24.00	1.374	-	-	0.03	0.205	0.282
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 3	DSI 3	507000	2535	22.74	24.00	1.337	-	-	0.09	0.144	0.192
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 3	DSI 3	507000	2535	22.62	24.00	1.374	-	-	0.03	0.157	0.216
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 4	DSI 3	507000	2535	21.35	22.00	1.161	-	-	-0.16	0.177	0.206
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	15mm	Ant 4	DSI 3	507000	2535	21.33	22.00	1.167	-	-	0.16	0.171	0.200
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 3	507000	2535	21.35	22.00	1.161	-	-	0.08	0.198	0.230
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	15mm	Ant 4	DSI 3	507000	2535	21.33	22.00	1.167	-	-	-0.1	0.231	0.270
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DSI 3	519000	2595	22.41	22.70	1.069	-	-	0.08	0.187	0.200
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Front	15mm	Ant 4	DSI 3	519000	2595	22.36	22.70	1.081	-	-	0.04	0.188	0.203
76	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 3	519000	2595	22.41	22.70	1.069	-	-	-0.04	0.217	**0.232**
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 3	519000	2595	22.36	22.70	1.081	-	-	0.1	0.207	0.224
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	518598	2592.99	23.98	25.00	1.265	-	-	-0.05	0.239	0.302
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	518598	2592.99	23.92	25.00	1.282	-	-	0.08	0.279	0.358
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	518598	2592.99	23.98	25.00	1.265	-	-	0.07	0.348	0.440
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	518598	2592.99	23.92	25.00	1.282	-	-	0.07	0.385	0.494
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 2	DSI 3	518598	2592.99	25.38	25.70	1.076	-	-	-0.11	0.376	0.405
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 2	DSI 3	518598	2592.99	25.35	25.70	1.084	-	-	0.03	0.386	0.418
77	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 3	518598	2592.99	25.38	25.70	1.076	-	-	-0.16	0.500	**0.538**
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 2	DSI 3	518598	2592.99	25.35	25.70	1.084	-	-	0.15	0.492	0.533
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 3	DSI 3	518598	2592.99	23.19	24.50	1.352	-	-	0.12	0.211	0.285
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 3	DSI 3	518598	2592.99	23.14	24.50	1.368	-	-	0.01	0.293	0.401
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 3	DSI 3	518598	2592.99	23.19	24.50	1.352	-	-	-0.18	0.166	0.224
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 3	DSI 3	518598	2592.99	23.14	24.50	1.368	-	-	0.09	0.237	0.324
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 4	DSI 3	518598	2592.99	21.96	22.20	1.057	-	-	-0.09	0.173	0.183
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 4	DSI 3	518598	2592.99	21.91	22.20	1.069	-	-	-0.15	0.194	0.207
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 3	518598	2592.99	21.96	22.20	1.057	-	-	-0.14	0.215	0.227
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 4	DSI 3	518598	2592.99	21.91	22.20	1.069	-	-	0.06	0.225	0.241
3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 5	DSI 3	42590	3500	22.12	22.50	1.091	62.9	1.006	0.13	0.091	0.100
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 5	DSI 3	42590	3500	22.10	22.50	1.096	62.9	1.006	-0.16	0.094	0.104
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 3	42590	3500	22.12	22.50	1.091	62.9	1.006	-0.07	0.116	0.127
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 5	DSI 3	42590	3500	22.10	22.50	1.096	62.9	1.006	0.1	0.114	0.126
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	42590	3500	23.46	25.00	1.426	62.9	1.006	0.09	0.100	0.143
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	42590	3500	22.41	24.00	1.442	62.9	1.006	-0.1	0.081	0.118
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	42590	3500	23.46	25.00	1.426	62.9	1.006	0.07	0.270	0.387

	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	42590	3500	22.41	24.00	1.442	62.9	1.006	0.05	0.215	0.312
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 6	DSI 3	42590	3500	21.35	22.00	1.161	62.9	1.006	-0.06	0.203	0.237
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 6	DSI 3	42590	3500	21.27	22.00	1.183	62.9	1.006	-0.15	0.207	0.246
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 6	DSI 3	42590	3500	21.35	22.00	1.161	62.9	1.006	0.18	0.189	0.221
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 6	DSI 3	42590	3500	21.27	22.00	1.183	62.9	1.006	0.03	0.190	0.226
	LTE Band 42	20M	QPSK	1	0	-	Front	15mm	Ant 7	DSI 3	42590	3500	23.55	24.50	1.245	62.9	1.006	0.07	0.063	0.079
	LTE Band 42	20M	QPSK	50	0	-	Front	15mm	Ant 7	DSI 3	42590	3500	22.50	23.50	1.259	62.9	1.006	0.05	0.049	0.062
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 7	DSI 3	42590	3500	23.55	24.50	1.245	62.9	1.006	0.03	0.650	0.814
	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 7	DSI 3	42190	3460	23.52	24.50	1.253	62.9	1.006	0.04	0.588	0.741
78	LTE Band 42	20M	QPSK	1	0	-	Back	15mm	Ant 7	DSI 3	42990	3540	23.48	24.50	1.265	62.9	1.006	-0.07	0.745	**0.948**
	LTE Band 42	20M	QPSK	50	0	-	Back	15mm	Ant 7	DSI 3	42590	3500	22.50	23.50	1.259	62.9	1.006	0.02	0.461	0.584
	LTE Band 42	20M	QPSK	100	0	-	Back	15mm	Ant 7	DSI 3	42590	3500	22.37	23.50	1.297	62.9	1.006	0.09	0.461	0.602
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 5	DSI 3	55830	3609	21.68	22.00	1.076	62.9	1.006	0.14	0.077	0.083
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 5	DSI 3	55830	3609	21.62	22.00	1.091	62.9	1.006	-0.02	0.075	0.082
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 5	DSI 3	55830	3609	21.68	22.00	1.076	62.9	1.006	0.06	0.083	0.090
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 5	DSI 3	55830	3609	21.62	22.00	1.091	62.9	1.006	0.1	0.084	0.092
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 1	DSI 3	55830	3609	23.54	25.00	1.400	62.9	1.006	-0.14	0.093	0.131
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 1	DSI 3	55830	3609	22.51	24.00	1.409	62.9	1.006	0.04	0.073	0.103
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 1	DSI 3	55830	3609	23.54	25.00	1.400	62.9	1.006	0.05	0.226	0.318
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 1	DSI 3	55830	3609	22.51	24.00	1.409	62.9	1.006	0.08	0.184	0.261
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 6	DSI 3	55830	3609	21.89	22.50	1.151	62.9	1.006	0.09	0.254	0.294
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 6	DSI 3	55830	3609	21.85	22.50	1.161	62.9	1.006	-0.01	0.251	0.293
	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 6	DSI 3	55830	3609	21.89	22.50	1.151	62.9	1.006	-0.06	0.203	0.235
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 6	DSI 3	55830	3609	21.85	22.50	1.161	62.9	1.006	0.07	0.205	0.240
	LTE Band 48	20M	QPSK	1	0	-	Front	15mm	Ant 7	DSI 3	55830	3609	18.66	19.50	1.213	62.9	1.006	-0.03	0.013	0.016
	LTE Band 48	20M	QPSK	50	0	-	Front	15mm	Ant 7	DSI 3	55830	3609	18.62	19.50	1.225	62.9	1.006	-0.18	0.014	0.017
79	LTE Band 48	20M	QPSK	1	0	-	Back	15mm	Ant 7	DSI 3	55830	3609	18.66	19.50	1.213	62.9	1.006	-0.02	0.357	**0.436**
	LTE Band 48	20M	QPSK	50	0	-	Back	15mm	Ant 7	DSI 3	55830	3609	18.62	19.50	1.225	62.9	1.006	-0.17	0.274	0.338
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	656000	3840	20.67	22.00	1.358	-	-	-0.13	0.064	0.087
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	656000	3840	20.63	22.00	1.371	-	-	-0.04	0.065	0.089
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	656000	3840	20.67	22.00	1.358	-	-	0.04	0.186	0.253
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	656000	3840	20.63	22.00	1.371	-	-	0.17	0.183	0.251
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	656000	3840	23.65	25.00	1.365	50	1.000	0.01	0.191	0.261
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	633334	3500.01	20.86	22.00	1.300	-	-	0.02	0.103	0.134
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	633334	3500.01	20.80	22.00	1.318	-	-	0.02	0.094	0.124
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	633334	3500.01	20.86	22.00	1.300	-	-	-0.09	0.282	0.367
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	633334	3500.01	20.80	22.00	1.318	-	-	-0.12	0.291	0.384
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	633334	3500.01	23.93	25.00	1.279	50	1.000	0.04	0.324	0.415
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	656000	3840	18.25	19.00	1.189	-	-	-0.02	0.081	0.096
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	656000	3840	18.22	19.00	1.197	-	-	0.05	0.095	0.114
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	656000	3840	18.25	19.00	1.189	-	-	0.14	0.076	0.090
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	656000	3840	18.22	19.00	1.197	-	-	0.04	0.074	0.089
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	656000	3840	21.29	22.00	1.178	50	1.000	0.07	0.105	0.124
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	633334	3500.01	18.34	19.00	1.164	-	-	-0.04	0.066	0.077
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	633334	3500.01	18.29	19.00	1.178	-	-	-0.18	0.060	0.071
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	633334	3500.01	18.34	19.00	1.164	-	-	-0.18	0.079	0.092
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	633334	3500.01	18.29	19.00	1.178	-	-	0.07	0.085	0.100
	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	633334	3500.01	21.16	22.00	1.213	50	1.000	-0.03	0.090	0.109
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	656000	3840	17.69	19.00	1.352	-	-	0.04	0.171	0.231
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	656000	3840	17.61	19.00	1.377	-	-	-0.11	0.158	0.218
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	656000	3840	17.69	19.00	1.352	-	-	0.07	0.146	0.197
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	656000	3840	17.61	19.00	1.377	-	-	-0.07	0.146	0.201
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	656000	3840	20.42	22.00	1.439	50	1.000	0.19	0.172	0.247
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.74	19.00	1.337	-	-	0.14	0.194	0.259
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	633334	3500.01	17.60	19.00	1.380	-	-	0.15	0.214	0.295
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.74	19.00	1.337	-	-	-0.14	0.179	0.239
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	633334	3500.01	17.60	19.00	1.380	-	-	0.02	0.228	0.315

	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	633334	3500.01	20.52	22.00	1.406	50	1.000	0.08	0.236	0.332
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	656000	3840	19.51	21.00	1.409	-	-	0.14	0.051	0.072
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	656000	3840	19.45	21.00	1.429	-	-	-0.02	0.055	0.079
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	656000	3840	19.51	21.00	1.409	-	-	-0.09	0.179	0.252
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	656000	3840	19.45	21.00	1.429	-	-	0.06	0.153	0.219
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	656000	3840	22.57	24.00	1.390	50	1.000	-0.07	0.194	0.270
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	633334	3500.01	19.46	21.00	1.426	-	-	0.02	0.050	0.071
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	633334	3500.01	19.33	21.00	1.469	-	-	0.08	0.060	0.088
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	19.46	21.00	1.426	-	-	0.13	0.386	0.550
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	19.33	21.00	1.469	-	-	0.07	0.514	0.755
80	FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	22.37	24.00	1.455	50	1.000	-0.05	0.567	**0.825**
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	650000	3750	22.22	23.00	1.197	-	-	0.14	0.235	0.281
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	650000	3750	22.13	23.00	1.222	-	-	0.04	0.254	0.310
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	650000	3750	22.22	23.00	1.197	-	-	0.17	0.447	0.535
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	650000	3750	22.13	23.00	1.222	-	-	0.08	0.420	0.513
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	650000	3750	25.11	26.00	1.227	50	1.000	0.08	0.461	0.566
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	633334	3500.01	22.30	23.00	1.175	-	-	-0.08	0.129	0.152
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 1	DSI 3	633334	3500.01	22.23	23.00	1.194	-	-	-0.18	0.124	0.148
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	633334	3500.01	22.30	23.00	1.175	-	-	0.05	0.375	0.441
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	633334	3500.01	22.23	23.00	1.194	-	-	0.04	0.385	0.460
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 1	DSI 3	633334	3500.01	24.96	26.00	1.271	50	1.000	0.18	0.396	0.503
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	650000	3750	17.32	18.00	1.169	-	-	0.17	0.068	0.080
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	650000	3750	17.24	18.00	1.191	-	-	0.13	0.075	0.089
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	650000	3750	17.32	18.00	1.169	-	-	0.07	0.073	0.085
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	650000	3750	17.24	18.00	1.191	-	-	0.14	0.069	0.082
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	650000	3750	20.25	21.00	1.189	50	1.000	0.04	0.078	0.093
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	633334	3500.01	17.58	18.00	1.102	-	-	-0.18	0.066	0.073
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 5	DSI 3	633334	3500.01	17.35	18.00	1.161	-	-	-0.08	0.061	0.071
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	633334	3500.01	17.58	18.00	1.102	-	-	-0.02	0.079	0.087
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	633334	3500.01	17.35	18.00	1.161	-	-	0.07	0.071	0.082
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 5	DSI 3	633334	3500.01	20.45	21.00	1.135	50	1.000	0.18	0.082	0.093
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	650000	3750	18.15	19.00	1.216	-	-	-0.11	0.089	0.108
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	650000	3750	17.98	19.00	1.265	-	-	0.06	0.138	0.175
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	650000	3750	18.15	19.00	1.216	-	-	-0.16	0.087	0.106
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	650000	3750	17.98	19.00	1.265	-	-	0.05	0.130	0.164
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	650000	3750	20.91	22.00	1.285	50	1.000	0.02	0.144	0.185
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	633334	3500.01	18.10	19.00	1.230	-	-	-0.09	0.152	0.187
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	633334	3500.01	18.06	19.00	1.242	-	-	0.09	0.171	0.212
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	633334	3500.01	18.10	19.00	1.230	-	-	0.02	0.105	0.129
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 6	DSI 3	633334	3500.01	18.06	19.00	1.242	-	-	0.07	0.137	0.170
	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 6	DSI 3	633334	3500.01	21.13	22.00	1.222	50	1.000	0.05	0.190	0.232
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	650000	3750	20.58	21.50	1.236	-	-	0.03	0.059	0.073
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	650000	3750	20.46	21.50	1.271	-	-	0.07	0.063	0.080
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	650000	3750	20.58	21.50	1.236	-	-	-0.09	0.472	0.583
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	650000	3750	20.46	21.50	1.271	-	-	0.06	0.428	0.544
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	650000	3750	23.28	24.50	1.324	50	1.000	-0.04	0.481	0.637
	FR1 n78_ENDC	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	650000	3750	20.16	21.50	1.361	50	1.000	0.09	0.241	0.328
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	633334	3500.01	20.45	21.50	1.274	-	-	-0.02	0.065	0.083
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Front	15mm	Ant 7	DSI 3	633334	3500.01	20.31	21.50	1.315	-	-	-0.03	0.063	0.083
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.45	21.50	1.274	-	-	-0.11	0.498	0.634
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.31	21.50	1.315	-	-	0.12	0.662	0.871
	FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.23	21.50	1.340	-	-	0.12	0.611	0.819
81	FR1 n78 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	23.41	24.50	1.285	50	1.000	-0.06	0.729	**0.937**
	FR1 n78_ENDC	100M	QPSK	135	69	DFT-SCS-30KHz	Back	15mm	Ant 7	DSI 3	633334	3500.01	20.07	21.50	1.390	50	1.000	0.06	0.369	0.513

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Front	15mm	Ant 17+6(6)	Full Power	1	2412	17.70	19.00	1.349	98.47	1.016	0.03	0.111	0.152
82	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 17+6(6)	Full Power	1	2412	17.70	19.00	1.349	98.47	1.016	0.06	0.317	0.434
	WLAN2.4GHz	802.11b 1Mbps	Back	15mm	Ant 17+6(17)	DBS	1	2412	15.36	16.50	1.300	98.47	1.016	0.02	0.157	0.207
	Bluetooth	1Mbps	Front	15mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.04	0.012	0.016
83	Bluetooth	1Mbps	Back	15mm	Ant 17	Full Power	39	2441	16.55	17.50	1.245	76.8	1.085	0.01	0.061	**0.082**
	Bluetooth	1Mbps	Front	15mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	0.01	0.013	0.019
	Bluetooth	1Mbps	Back	15mm	Ant 6	Full Power	39	2441	16.31	17.50	1.315	76.8	1.085	-0.06	0.041	0.059
5000MHz																
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+18	Full Power	54	5270	20.50	22.00	1.413	91.43	1.094	-0.02	0.153	0.236
84	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+18	Full Power	54	5270	20.50	22.00	1.413	91.43	1.094	-0.01	0.216	**0.334**
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+18	DBS	54	5270	18.43	20.00	1.435	91.43	1.094	0.06	0.144	0.226
85	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	-0.09	0.054	**0.084**
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.02	0.016	0.025
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.01	0.055	0.080
86	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15mm	Ant 5+18(18)	Full Power	159	5795	10.25	11.50	1.334	91.43	1.094	0.01	0.110	**0.161**

15.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
1900MHz																				
87	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	DSI 1	661	1880	22.47	24.00	1.422	-	-	0.04	0.966	**1.374**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	DSI 1	661	1880	22.47	24.00	1.422	-	-	0.02	0.590	0.839
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	0mm	Ant 1	DSI 1	661	1880	22.47	24.00	1.422	-	-	0.04	0.863	1.227
2600MHz																				
88	LTE Band 41	20M	QPSK	1	0	-	Right Side	0mm	Ant 4	DSI 1	40185	2549.5	23.71	24.20	1.119	62.9	1.006	0.04	1.65	**1.858**
	LTE Band 38 UL CA	20M	QPSK	1	99	-	Right Side	0mm	Ant 4	DSI 1	37850+38048	2580+2599.8	23.29	24.20	1.233	62.9	1.006	0.04	1.41	1.749
	LTE Band 41	20M	QPSK	50	0	-	Right Side	0mm	Ant 4	DSI 1	40185	2549.5	23.74	24.20	1.112	62.9	1.006	0.01	1.60	1.789

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
5000MHz																
	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+18	Standalone	54	5270	19.58	21.00	1.388	91.43	1.094	0.15	0.710	1.078
	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+18	Standalone	54	5270	19.58	21.00	1.388	91.43	1.094	0.02	0.230	0.349
	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+18	Standalone	54	5270	19.58	21.00	1.388	91.43	1.094	0.04	0.810	1.230
89	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+18	Standalone	54	5270	19.58	21.00	1.388	91.43	1.094	0.09	1.420	**2.156**
	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+18	Standalone	62	5310	17.62	19.00	1.375	91.43	1.094	-0.17	1.030	1.550
	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	-0.09	0.309	0.482
	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.02	0.095	0.148
	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.07	0.451	0.704
90	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 5+18(18)	Full Power	110	5550	12.46	14.00	1.426	91.43	1.094	0.05	0.553	**0.863**

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	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.41	19.70	1.069	-	-	0.01	0.956	1	1.022
2nd	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 0	518598	2592.99	19.41	19.70	1.069	-	-	0.06	0.943	1.014	1.008
1st	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	42190	3460	20.60	21.00	1.096	62.9	1.006	0.07	0.967	1	1.067
2nd	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 0	42190	3460	20.60	21.00	1.096	62.9	1.006	0.01	0.958	1.009	1.057
1st	FR1 n77_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	656000	3840	19.64	20.50	1.219	50	1.000	-0.08	0.805	1	0.981
2nd	FR1 n77_PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 0	656000	3840	19.64	20.50	1.219	50	1.000	0.04	0.796	1.011	0.970
1st	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	55830	3609	18.66	19.50	1.213	62.9	1.006	-0.09	0.875	1	1.068
2nd	LTE Band 48	20M	QPSK	1	0	-	Back	10mm	Ant 7	DSI 4	55830	3609	18.66	19.50	1.213	62.9	1.006	0.11	0.851	1.028	1.039

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. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

15.6 NR Linearity Data Analysis

General Note:

This device support Power Class 2 and Power Class 3 operations for 5GNR n77/n78. 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 5GNR 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.

NR n77(HPUE) Part27O-Linearity Data for Head Ant1				NR n77(HPUE) Part27O-Linearity Data for Head Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50		Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.682	0.725		Reported 1g SAR (W/kg)	0.916	0.981
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63		Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.680			Linearity SAR (W/kg)	0.914	
% deviation from expected linearity		6.56%		% deviation from expected linearity		7.35%
NR n77(HPUE) Part27O-Linearity Data for Head Ant6				**NR n77(HPUE) Part27O-Linearity Data for Head Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50		Maximum Tune up Power (dBm)	22.50	25.50
Reported 1g SAR (W/kg)	0.904	0.989		Reported 1g SAR (W/kg)	0.207	0.226
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56		Frame Averaged (mW)	177.83	177.41
Linearity SAR (W/kg)	0.902			Linearity SAR (W/kg)	0.207	
% deviation from expected linearity		9.66%		% deviation from expected linearity		9.44%
NR n77(HPUE) Part27Q-Linearity Data for Head Ant1				**NR n77(HPUE) Part27Q-Linearity Data for Head Ant5**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50		Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.975	0.981		Reported 1g SAR (W/kg)	0.810	0.880
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63		Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.973			Linearity SAR (W/kg)	0.808	
% deviation from expected linearity		0.85%		% deviation from expected linearity		8.90%
NR n77(HPUE) Part27Q-Linearity Data for Head Ant6				**NR n77(HPUE) Part27Q-Linearity Data for Head Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50		Maximum Tune up Power (dBm)	22.50	25.50
Reported 1g SAR (W/kg)	0.993	1.040		Reported 1g SAR (W/kg)	0.617	0.670
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56		Frame Averaged (mW)	177.83	177.41
Linearity SAR (W/kg)	0.991			Linearity SAR (W/kg)	0.616	
% deviation from expected linearity		4.98%		% deviation from expected linearity		8.85%

NR n78(HPUE) Part27O-Linearity Data for Head Ant1				NR n78(HPUE) Part27O-Linearity Data for Head Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.874	0.948		Reported 1g SAR (W/kg)	0.891	0.926
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.872			Linearity SAR (W/kg)	0.889	
% deviation from expected linearity		8.72%		% deviation from expected linearity		4.17%
NR n78(HPUE) Part27O-Linearity Data for Head Ant6				**NR n78(HPUE) Part27O-Linearity Data for Head Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50		Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.828	0.844		Reported 1g SAR (W/kg)	0.504	0.523
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40		Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.826			Linearity SAR (W/kg)	0.503	
% deviation from expected linearity		2.17%		% deviation from expected linearity		4.02%
NR n78(HPUE) Part27Q-Linearity Data for Head Ant1				**NR n78(HPUE) Part27Q-Linearity Data for Head Ant5**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.892	0.928		Reported 1g SAR (W/kg)	0.842	0.864
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.890			Linearity SAR (W/kg)	0.840	
% deviation from expected linearity		4.28%		% deviation from expected linearity		2.86%
NR n78(HPUE) Part27Q-Linearity Data for Head Ant6				**NR n78(HPUE) Part27Q-Linearity Data for Head Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50		Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.703	0.742		Reported 1g SAR (W/kg)	0.742	0.812
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40		Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.701			Linearity SAR (W/kg)	0.740	
% deviation from expected linearity		5.80%		% deviation from expected linearity		9.69%

NR n77(HPUE) Part27O-Linearity Data for Hotspot Ant1				NR n77(HPUE) Part27O-Linearity Data for Hotspot Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50		Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.441	0.466		Reported 1g SAR (W/kg)	0.366	0.385
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63		Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.440			Linearity SAR (W/kg)	0.365	
% deviation from expected linearity		5.92%		% deviation from expected linearity		5.44%
NR n77(HPUE) Part27O-Linearity Data for Hotspot Ant6				**NR n77(HPUE) Part27O-Linearity Data for Hotspot Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50		Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.564	0.606		Reported 1g SAR (W/kg)	0.431	0.440
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56		Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.563			Linearity SAR (W/kg)	0.430	
% deviation from expected linearity		7.70%		% deviation from expected linearity		2.33%
NR n77(HPUE) Part27Q-Linearity Data for Hotspot Ant1				**NR n77(HPUE) Part27Q-Linearity Data for Hotspot Ant5**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.50	21.50		Maximum Tune up Power (dBm)	17.50	20.50
Reported 1g SAR (W/kg)	0.545	0.588		Reported 1g SAR (W/kg)	0.298	0.326
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	70.79	70.63		Frame Averaged (mW)	56.23	56.10
Linearity SAR (W/kg)	0.544			Linearity SAR (W/kg)	0.297	
% deviation from expected linearity		8.15%		% deviation from expected linearity		9.66%
NR n77(HPUE) Part27Q-Linearity Data for Hotspot Ant6				**NR n77(HPUE) Part27Q-Linearity Data for Hotspot Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	16.50	19.50		Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.506	0.549		Reported 1g SAR (W/kg)	0.926	1.015
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	44.67	44.56		Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.505			Linearity SAR (W/kg)	0.924	
% deviation from expected linearity		8.76%		% deviation from expected linearity		9.87%

NR n78(HPUE) Part27O-Linearity Data for Hotspot Ant1				NR n78(HPUE) Part27O-Linearity Data for Hotspot Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.383	0.409		Reported 1g SAR (W/kg)	0.358	0.371
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.382			Linearity SAR (W/kg)	0.357	
% deviation from expected linearity		7.04%		% deviation from expected linearity		3.88%
NR n78(HPUE) Part27O-Linearity Data for Hotspot Ant6				**NR n78(HPUE) Part27O-Linearity Data for Hotspot Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50		Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.343	0.369		Reported 1g SAR (W/kg)	0.659	0.667
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40		Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.342			Linearity SAR (W/kg)	0.657	
% deviation from expected linearity		7.84%		% deviation from expected linearity		1.45%
NR n78(HPUE) Part27Q-Linearity Data for Hotspot Ant1				**NR n78(HPUE) Part27Q-Linearity Data for Hotspot Ant5**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00		Maximum Tune up Power (dBm)	17.00	20.00
Reported 1g SAR (W/kg)	0.268	0.289		Reported 1g SAR (W/kg)	0.310	0.339
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95		Frame Averaged (mW)	50.12	50.00
Linearity SAR (W/kg)	0.267			Linearity SAR (W/kg)	0.309	
% deviation from expected linearity		8.09%		% deviation from expected linearity		9.61%
NR n78(HPUE) Part27Q-Linearity Data for Hotspot Ant6				**NR n78(HPUE) Part27Q-Linearity Data for Hotspot Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	15.50	18.50		Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.325	0.355		Reported 1g SAR (W/kg)	0.770	0.842
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	35.48	35.40		Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.324			Linearity SAR (W/kg)	0.768	
% deviation from expected linearity		9.49%		% deviation from expected linearity		9.61%

NR n77(HPUE) Part27O-Linearity Data for Body-worn Ant1				NR n77(HPUE) Part27O-Linearity Data for Body-worn Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00		Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.253	0.261		Reported 1g SAR (W/kg)	0.114	0.124
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11		Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.252			Linearity SAR (W/kg)	0.114	
% deviation from expected linearity		3.41%		% deviation from expected linearity		9.03%
NR n77(HPUE) Part27O-Linearity Data for Body-worn Ant6				**NR n77(HPUE)- Part27OLinearity Data for Body-worn Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00		Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.231	0.247		Reported 1g SAR (W/kg)	0.252	0.270
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24		Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.230			Linearity SAR (W/kg)	0.251	
% deviation from expected linearity		7.18%		% deviation from expected linearity		7.40%
NR n77(HPUE) Part27Q-Linearity Data for Body-worn Ant1				**NR n77(HPUE) Part27Q-Linearity Data for Body-worn Ant5**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	22.00	25.00		Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.384	0.415		Reported 1g SAR (W/kg)	0.100	0.109
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	158.49	158.11		Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.383			Linearity SAR (W/kg)	0.100	
% deviation from expected linearity		8.33%		% deviation from expected linearity		9.26%
NR n77(HPUE) Part27Q-Linearity Data for Body-worn Ant6				**NR n77(HPUE) Part27Q-Linearity Data for Body-worn Ant7**		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)			NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00		Maximum Tune up Power (dBm)	21.00	24.00
Reported 1g SAR (W/kg)	0.315	0.332		Reported 1g SAR (W/kg)	0.755	0.825
Duty Cycle	100.00%	50.00%		Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24		Frame Averaged (mW)	125.89	125.59
Linearity SAR (W/kg)	0.314			Linearity SAR (W/kg)	0.753	
% deviation from expected linearity		5.65%		% deviation from expected linearity		9.53%

NR n78(HPUE) Part27O-Linearity Data for Body-worn Ant1		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.535	0.566
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.534	
% deviation from expected linearity		6.05%

NR n78(HPUE) Part27O-Linearity Data for Body-worn Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.089	0.093
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.089	
% deviation from expected linearity		4.74%

NR n78(HPUE) Part27O-Linearity Data for Body-worn Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.175	0.185
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.175	
% deviation from expected linearity		5.97%

NR n78(HPUE) Part27O-Linearity Data for Body-worn Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	0.583	0.637
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	0.582	
% deviation from expected linearity		9.52%

NR n78(HPUE) Part27Q-Linearity Data for Body-worn Ant1		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	23.00	26.00
Reported 1g SAR (W/kg)	0.460	0.503
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	199.53	199.05
Linearity SAR (W/kg)	0.459	
% deviation from expected linearity		9.61%

NR n78(HPUE) Part27Q-Linearity Data for Body-worn Ant5		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	18.00	21.00
Reported 1g SAR (W/kg)	0.087	0.093
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	63.10	62.95
Linearity SAR (W/kg)	0.087	
% deviation from expected linearity		7.15%

NR n78(HPUE) Part27Q-Linearity Data for Body-worn Ant6		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	19.00	22.00
Reported 1g SAR (W/kg)	0.212	0.232
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	79.43	79.24
Linearity SAR (W/kg)	0.211	
% deviation from expected linearity		9.69%

NR n78(HPUE) Part27Q-Linearity Data for Body-worn Ant7		
	NR n77 (Power Class 3)	NR n77 (Power Class 2)
Maximum Tune up Power (dBm)	21.50	24.50
Reported 1g SAR (W/kg)	0.871	0.937
Duty Cycle	100.00%	50.00%
Frame Averaged (mW)	141.25	140.92
Linearity SAR (W/kg)	0.869	
% deviation from expected linearity		7.83%

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN 2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN 5GHz/6GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes
4.	WLAN 5GHz/6GHz + Bluetooth	Yes	Yes	Yes	Yes
5.	WLAN 2.4GHz SISO(ANT6) + Bluetooth ant17	Yes	Yes	Yes	Yes
6.	WLAN 2.4GHz + WLAN 5GHz/6GHz	Yes	Yes	Yes	Yes
7.	WLAN 2.4GHz SISO(ANT6) + WLAN 5GHz/6GHz + Bluetooth ant17	Yes	Yes	Yes	Yes
8.	WWAN + WLAN 5GHz/6GHz + Bluetooth	Yes	Yes	Yes	Yes
9.	WWAN + WLAN 2.4GHz SISO(ANT6) + Bluetooth ant17	Yes	Yes	Yes	Yes
10.	WWAN + WLAN 2.4GHz + WLAN 5GHz/6GHz	Yes	Yes	Yes	Yes
11.	WWAN + WLAN 2.4GHz SISO(ANT6) + WLAN 5GHz/6GHz + Bluetooth ant17	Yes	Yes	Yes	Yes
12.	WWAN + WLAN 2.4GHz + NFC				Yes
13.	WWAN + WLAN 5GHz/6GHz + NFC				Yes
14.	WWAN + Bluetooth + NFC				Yes
15.	WLAN 5GHz/6GHz + Bluetooth + NFC				Yes
16.	WLAN 2.4GHz SISO(ANT6) + Bluetooth ant17 + NFC				Yes
17.	WLAN 2.4GHz + WLAN 5GHz/6GHz + NFC				Yes
18.	WLAN 2.4GHz SISO(ANT6) + WLAN 5GHz/6GHz + Bluetooth ant17 + NFC				Yes
19.	WWAN + WLAN 5GHz/6GHz + Bluetooth + NFC				Yes
20.	WWAN + WLAN 2.4GHz SISO(ANT6) + Bluetooth ant17 + NFC				Yes
21.	WWAN + WLAN 2.4GHz + WLAN 5GHz/6GHz + NFC				Yes
22.	WWAN + WLAN 2.4GHz SISO(ANT6) + WLAN 5GHz/6GHz + Bluetooth ant17 + NFC				Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. WWAN above includes 5G NR bands and EN-DC combination.
3. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.
4. EUT will choose each GSM, 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. 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.
8. WLAN2.4GHz/WLAN5GHz MIMO SAR can represent SISO SAR to do co-located SAR analysis.
9. According to the EUT characteristic, WLAN5GHz/6GHz and Bluetooth can transmit simultaneously.
10. According to the EUT characteristic, WLAN 5GHz/6GHz and WLAN 2.4GHz can transmit simultaneously; WLAN 5GHz/6GHz + WLAN 2.4GHz ANT6 + Bluetooth ANT17 can transmit simultaneously.
11. According to the EUT characteristic, WLAN 2.4GHz Ant17 and Bluetooth share the same antenna and they cannot transmit simultaneously each other, and WLAN 2.4GHz Ant6 and Bluetooth Ant17 can transmit simultaneously.
12. NFC can transmit simultaneously with other Radios in extremity exposure condition.
13. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
14. When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
15. For standalone WWAN, always choose the highest SAR among all WWAN bands for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each bands.
16. For inter-band UL CA SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE Bands within all antennas per each test position to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE bands.

17. For EN-DC SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE Bands within all antennas per each test position and also the worst SAR of the selected 5GNR Bands within all antennas to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE bands and each 5GNR bands.
18. The maximum SAR summation is calculated based on the same configuration and test position.
19. 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.
20. 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.
21. The WLAN6GHz Sim-Tx analysis guidance with other transmitters was based on SAR test results. The simultaneous transmission and test exemption analysis were compliant with KDB 447498 D01. For the device does not support FR2 or other MPE field measurement, therefore section 15 in the SAR report has no TER analysis according to KDB 987594 requirement.

16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	2+5	2+8	1+6+11	1+9+11	1+6+12	1+9+12	1+4+7+11	1+4+10+11
		WWAN	WLAN2.4GHz Ant17+6 DBS only	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 DBS only	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	WLAN6GHz Ant5+18 DBS only	WLAN6GHz Ant5+18 non DBS	WLAN6GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	Summed	Summed	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
WWAN All Bands	Right Cheek	1.088	0.771	0.090	0.090	0.767	0.120	0.120	0.518	0.248	0.248	0.078	0.041	1.54	1.29	1.29	1.41	1.25	1.38	1.38	1.50
	Right Tilted	1.070	0.771	0.097	0.097	0.767	0.133	0.133	0.578	0.248	0.248	0.084	0.024	1.54	1.35	1.29	1.40	1.23	1.34	1.38	1.50
	Left Cheek	1.040	0.771	0.226	0.226	0.767	0.247	0.247	0.653	0.248	0.248	0.076	0.203	1.54	1.42	1.36	1.36	1.49	1.49	**1.59**	**1.59**
	Left Tilted	1.067	0.771	0.086	0.086	0.767	0.211	0.211	0.753	0.248	0.248	0.091	0.057	1.54	1.52	1.37	1.41	1.34	1.37	1.46	1.49

UL CA

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+2+5+9	1+2+7+9	1+2+5+10	1+2+7+10	1+2+4+6+9	1+2+4+8+9
			WWAN	WWAN	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	WLAN6GHz Ant5+18 non DBS	WLAN6GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)
All Ant (LTE B2,4)	All Ant (LTE B4,7)	Right Cheek	0.508	0.508	0.090	0.090	0.120	0.120	0.248	0.248	0.078	0.041	1.21	1.34	1.18	1.31	1.30	1.43
		Right Tilted	0.378	0.405	0.097	0.097	0.133	0.133	0.248	0.248	0.084	0.024	1.00	1.12	0.94	1.06	1.10	1.21
		Left Cheek	0.506	0.423	0.226	0.226	0.247	0.247	0.248	0.248	0.076	0.203	1.25	1.25	1.38	1.38	1.48	1.48
		Left Tilted	0.306	0.306	0.086	0.086	0.211	0.211	0.248	0.248	0.091	0.057	0.91	0.95	0.88	0.92	1.00	1.04

EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+2+5+9	1+2+7+9	1+2+5+10	1+2+7+10	1+2+4+6+9	1+2+4+8+9
			WWAN	FR1	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	WLAN6GHz Ant5+18 non DBS	WLAN6GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)
All Ant (LTE B2,5,7,12,66)	All Ant (FR1 n5,7,38,41,66)	Right Cheek	0.521	0.526	0.090	0.090	0.120	0.120	0.248	0.248	0.078	0.041	1.25	1.37	1.21	1.34	1.34	1.46
		Right Tilted	0.513	0.537	0.097	0.097	0.133	0.133	0.248	0.248	0.084	0.024	1.27	1.38	1.21	1.32	1.36	1.48
		Left Cheek	0.506	0.512	0.226	0.226	0.247	0.247	0.248	0.248	0.076	0.203	1.34	1.34	1.47	1.47	1.57	1.57
		Left Tilted	0.357	0.532	0.086	0.086	0.211	0.211	0.248	0.248	0.091	0.057	1.19	1.23	1.16	1.19	1.28	1.31
All Ant (LTE B2,,5,7,26, 66,38,41)	All Ant (FR1 n78)	Right Cheek	0.527	0.533	0.090	0.090	0.120	0.120	0.248	0.248	0.078	0.041	1.26	1.39	1.22	1.35	1.35	1.48
		Right Tilted	0.548	0.533	0.097	0.097	0.133	0.133	0.248	0.248	0.084	0.024	1.30	1.41	1.24	1.35	1.40	1.51
		Left Cheek	0.506	0.533	0.226	0.226	0.247	0.247	0.248	0.248	0.076	0.203	1.36	1.36	1.49	1.49	1.59	1.59
		Left Tilted	0.530	0.533	0.086	0.086	0.211	0.211	0.248	0.248	0.091	0.057	1.37	1.40	1.33	1.37	1.45	1.49

16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	2+5	1+6+8	1+6+9	1+4+7+8
		WWAN	WLAN2.4GHz Ant17+6 DBS only	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 DBS only	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	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)
WWAN All bands	Front	0.618	0.258	0.258	0.245	0.373	0.424	0.225	0.049	0.117	0.63	1.09	1.16	1.14
	Back	1.068	0.419	0.419	0.245	0.455	0.424	0.225	0.055	0.081	0.87	1.55	1.57	1.59
	Left side	0.616									0.00	0.62	0.62	0.62
	Right side	0.844	0.554	0.554	0.245	0.420	0.424	0.225	0.014	0.191	0.97	1.28	1.46	1.33
	Top side	0.905	0.245	0.245	0.245	0.905	0.424	0.225	0.149	0.001	1.15	1.48	1.33	1.52
	Bottom side	1.023									0.00	1.02	1.02	1.02

UL CA

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5+7	1+2+5+8	1+2+4+6+7
			WWAN	WWAN	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	Bluetooth Ant 17	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)	1g SAR (W/kg)
All Ant (LTE B2,4)	All Ant (LTE B4,7)	Front	0.305	0.344	0.258	0.245	0.424	0.225	0.049	0.117	1.12	1.19	1.17
		Back	0.365	0.448	0.419	0.245	0.424	0.225	0.055	0.081	1.29	1.32	1.34
		Left side	0.327	0.327							0.65	0.65	0.65
		Right side	0.331	0.462	0.554	0.245	0.424	0.225	0.014	0.191	1.23	1.41	1.28
		Top side	0.186	0.186	0.245	0.245	0.424	0.225	0.149	0.001	0.95	0.80	0.99
		Bottom side	0.518	0.547							1.07	1.07	1.07

EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	1+2+5+7	1+2+5+8	1+2+4+6+7
			WWAN	FR1	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	Bluetooth Ant 17	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)	1g SAR (W/kg)
All Ant (LTE B2,5,7,12,66)	All Ant (FR1 n5,7,38,41,66)	Front	0.475	0.508	0.258	0.245	0.424	0.225	0.049	0.117	1.46	1.52	1.50
		Back	0.464	0.539	0.419	0.245	0.424	0.225	0.055	0.081	1.48	1.51	1.53
		Left side	0.662	0.571							1.23	1.23	1.23
		Right side	0.462	0.507	0.554	0.245	0.424	0.225	0.014	0.191	1.41	1.58	1.45
		Top side	0.290	0.344	0.245	0.245	0.424	0.225	0.149	0.001	1.21	1.06	1.25
		Bottom side	0.698	0.788							1.49	1.49	1.49
All Ant (LTE B2,,5,7,26,38,41，66)	All Ant (FR1 n78)	Front	0.528	0.183	0.258	0.245	0.424	0.225	0.049	0.117	1.18	1.25	1.23
		Back	0.503	0.519	0.419	0.245	0.424	0.225	0.055	0.081	1.50	1.53	1.55
		Left side	0.662	0.282							0.94	0.94	0.94
		Right side	0.479	0.369	0.554	0.245	0.424	0.225	0.014	0.191	1.29	1.46	1.33
		Top side	0.320	0.409	0.245	0.245	0.424	0.225	0.149	0.001	1.30	1.15	1.35
		Bottom side	0.698								0.70	0.70	0.70

16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	11	12	2+5	2+8	1+6+11	1+9+11	1+6+12	1+9+12	1+4+7+11	1+4+10+11
		WWAN	WLAN2.4GHz Ant17+6 DBS only	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 DBS only	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	WLAN6GHz Ant5+18 DBS only	WLAN6GHz Ant5+18 non DBS	WLAN6GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	Summed	Summed	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
WWAN All Bands	Front	0.552	0.152	0.152	0.207	0.236	0.236	0.226	0.063	0.063	0.063	0.016	0.019	0.39	0.22	0.80	0.63	0.81	0.63	1.00	0.84
	Back	0.948	0.434	0.434	0.207	0.334	0.334	0.226	0.098	0.098	0.098	0.082	0.059	0.77	0.53	1.36	1.13	1.34	1.11	1.46	1.34

UL CA

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+2+5+9	1+2+7+9	1+2+5+10	1+2+7+10	1+2+4+6+9	1+2+4+8+9
			WWAN	WWAN	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	WLAN6GHz Ant5+18 non DBS	WLAN6GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)
All Ant (LTE B2,4)	All Ant (LTE B4,7)	Front	0.496	0.478	0.152	0.207	0.236	0.226	0.063	0.063	0.016	0.019	1.23	1.05	1.23	1.06	1.42	1.26
		Back	0.534	0.530	0.434	0.207	0.334	0.226	0.098	0.098	0.082	0.059	1.48	1.24	1.46	1.22	1.58	1.45

EN-DC

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	6	7	8	9	10	1+2+5+9	1+2+7+9	1+2+5+10	1+2+7+10	1+2+4+6+9	1+2+4+8+9
			WWAN	FR1	WLAN2.4GHz Ant17+6 non DBS	WLAN2.4GHz Ant17+6 DBS	WLAN5GHz Ant5+18 non DBS	WLAN5GHz Ant5+18 DBS	WLAN6GHz Ant5+18 non DBS	WLAN6GHz Ant5+18 DBS	Bluetooth Ant 17	Bluetooth Ant 6	Summed	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)	1g SAR (W/kg)	1g SAR (W/kg)
All Ant (LTE B2,5,7,12,66)	All Ant (FR1 n5,7,38,41,66)	Front	0.496	0.464	0.152	0.207	0.236	0.226	0.063	0.063	0.016	0.019	1.21	1.04	1.22	1.04	1.41	1.25
		Back	0.534	0.538	0.434	0.207	0.334	0.226	0.098	0.098	0.082	0.059	1.49	1.25	1.47	1.23	1.59	1.46
All Ant (LTE B2,,5,7,26,38,41，66)	All Ant (FR1 n78)	Front	0.496	0.310	0.152	0.207	0.236	0.226	0.063	0.063	0.016	0.019	1.06	0.89	1.06	0.89	1.26	1.09
		Back	0.534	0.513	0.434	0.207	0.334	0.226	0.098	0.098	0.082	0.059	1.46	1.23	1.44	1.20	1.56	1.43

16.4 Product specific 10g SAR Exposure Conditions

Remark:

1. For WLAN2.4GHz/ Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

WWAN Band	Exposure Position	1	2	3	4	1+2+4	1+3+4
		WWAN	WLAN5GHz Ant5+18	WLAN6GHz Ant5+18	NFC Ant 6	Summed	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
WWAN All bands	Front	1.374	1.078	0.339	0.001	2.45	1.71
	Back	0.839	0.349	0.147	0.015	1.20	1.00
	Left side	1.227			0.001	1.23	1.23
	Right side	1.858	1.230	0.495	0.001	**3.09**	2.35
	Top side		2.156	0.724	0.002	2.16	0.73
	Bottom side				0.001	0.00	0.00

Test Engineer： Martin Li, Varus Wang, Light Wang, Ricky Gu

17. Uncertainty Assessment

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

18. References

[1] FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2] ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3] IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013

[4] SPEAG DASY System Handbook

[5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.

[6] FCC KDB 865664 D02 v01r02, “RF Exposure Compliance Reporting and Documentation Considerations” Oct 2015.

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

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

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

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

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

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

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

[14] FCC KDB 447498 D01 v06, “Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies”, Oct 2015

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