FCC SAR Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: XT2517-1, XT2517-2, XT2517-3, XT2517V
FCC ID	: IHDT56AT8
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
FA4O3003	Rev. 01	Initial issue of report.	Dec. 20, 2024
FA4O3003	Rev. 02	1. Updated WLAN 2.4GHz/5GHz power. 2. Updated WLAN 5.3GHz relevant data for Head SAR 3. Updated WLAN 5.8GHz relevant data for Extremity SAR. 4. Updated Simultaneous SAR analysis for above bands. This report is an update version, replacing the report issued on Dec. 20, 2024.	Dec. 25, 2024

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2517-1, XT2517-2, XT2517-3, XT2517V,** are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.17	1.05	1.05	1.57
		GSM1900	<0.10	1.27	1.27	
	WCDMA	WCDMA II	0.79	1.29	1.25	
		WCDMA IV	0.90	1.28	1.28	
		WCDMA V	0.88	1.26	1.26	
	LTE	LTE Band 7	0.88	1.29	1.29	
		LTE Band 12/17	0.86	0.83	0.83	
		LTE Band 13	0.81	0.98	0.98	
		LTE Band 14	0.88	1.13	1.05	
		LTE Band 25/2	0.87	1.28	1.28	
		LTE Band 26/5	0.85	1.24	1.24	
		LTE Band 30	0.86	1.27	1.27	
		LTE Band 66/4	0.88	1.28	1.27	
		LTE Band 71	0.86	0.76	0.84	
		LTE Band 41/38	0.90	1.23	1.27	
		LTE Band 42	0.89	1.29	1.29	
		LTE Band 48	0.89	**1.30**	1.30	
	5G NR	FR1 n7	0.88	**1.30**	1.30	
		FR1 n12	0.88	0.64	0.65	
		FR1 n14	0.88	0.67	0.85	
		FR1 n30	0.88	1.28	1.28	
		FR1 n25/n2	0.89	1.28	1.29	
		FR1 n26/n5	0.89	0.81	0.81	
		FR1 n66	0.90	1.28	1.30	
		FR1 n70	0.88	1.29	1.29	
		FR1 n71	0.89	0.63	0.70	
		FR1 n41/n38	0.90	**1.30**	1.30	
		FR1 n48	0.91	1.18	1.19	
		FR1 n77/n78	0.89	1.22	1.22	
DTS	WLAN	2.4GHz WLAN	**1.41**	0.64	**1.38**	1.57
NII		5GHz WLAN	1.18	0.54	1.18	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.41	0.26	0.39	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	3.01	3.98
	WCDMA	WCDMA II	3.25	
		WCDMA IV	3.22	
		WCDMA V	1.05	
	LTE	LTE Band 7	3.19	
		LTE Band 26/5	1.00	
		LTE Band 25/2	3.16	
		LTE Band 30	3.15	
		LTE Band 66/4	3.19	
		LTE Band 41/38	3.28	
		LTE Band 42	2.84	
		LTE Band 48	2.93	
	5G NR	FR1 n7	3.23	
		FR1 n25	3.18	
		FR1 n30	3.16	
		FR1 n66	3.21	
		FR1 n70	3.12	
		FR1 n41/n38	3.21	
		FR1 n48	2.93	
		FR1 n77/n78	2.47	
DTS	WLAN	2.4GHz WLAN	**3.41**	3.98
NII		5GHz WLAN	2.99	3.98
Date of Testing:			2024/11/13 ~ 2024/12/4	

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

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

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

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR02-KS SAR03-KS SAR04-KS	CN1257	314309

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

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

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2517-1, XT2517-2, XT2517-3, XT2517V
FCC ID	IHDT56AT8
IMEI Code	Sample 1 IMEI 1: 358926210028837 IMEI 2: 358926210028845 Sample 2 IMEI 1: 358926210043133 IMEI 2: 358926210043141
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz 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: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC: ASK
HW Version	DVT2
SW Version	VVA35.34
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

Remark:

1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function.
4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
5. This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active).
6. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
7. For WLAN/BT when transmit simultaneously with each other, or when transmit simultaneous with WWAN/BT, power reduction will be activated to head exposure condition. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and extremity exposure conditions.
8. This device supports HPUE mode for LTE Band41 and 5GNR n41/n77/n78 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 n41/n77/n78 HPUE, 5GNR n41/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.
10. 5G NR n41/n48/n77/n78 supports UL MIMO mode.
11. The device supports HPUE (power class 2) under SISO mode and HPUE (power class 1.5) under UL MIMO mode for 5G NR n41/n77.
12. The different model names XT2517-1, XT2517-2, XT2517-3, XT2517V are only for market segment purpose, there is no other difference.
13. There are two samples. The difference between them could be referred to the XT2517-1, XT2517-2, XT2517-3, XT2517V_Operational Description of Product Equality Declaration which is exhibited separately. According to the difference, sample 1 was chosen to perform full testing and sample 2 verified the worst case of sample 1.
14. This device has NFC function and the NFC SAR report will be separately submitted.
15. SAR and Power density test report for WLAN 6GHz U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth always chose higher SAR of WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8.
16. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n71	FDD	15	5, 10, 15, 20
	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
SA	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40, 50
	n12	FDD	15	5, 10, 15
	n14	FDD	15	5, 10
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n70	FDD	15	5, 10, 15
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	10, 15, 20, 30, 40
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 20, 30, 40
	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>IHDT56AT8</td></tr>
<tr><td>Equipment Name</td><td>Mobile Cellular Phone</td></tr>
<tr><td>Operating Frequency Range of each LTE transmission band</td><td>LTE Band 2: 1850 MHz ~ 1910 MHz
LTE Band 4: 1710 MHz ~ 1755 MHz
LTE Band 5: 824 MHz ~ 849 MHz
LTE Band 7: 2500 MHz ~ 2570 MHz
LTE Band 12: 699 MHz ~ 716 MHz
LTE Band 13: 777 MHz ~ 787 MHz
LTE Band 14: 788 MHz ~ 798 MHz
LTE Band 17: 704 MHz ~ 716 MHz
LTE Band 25: 1850 MHz ~ 1915 MHz
LTE Band 26: 814 MHz ~ 849 MHz
LTE Band 30: 2305 MHz ~ 2315 MHz
LTE Band 38: 2570 MHz ~ 2620 MHz
LTE Band 41: 2496 MHz ~ 2690 MHz
LTE Band 42: 3450 MHz ~ 3550 MHz
LTE Band 48: 3550 MHz ~ 3700 MHz
LTE Band 66: 1710 MHz ~ 1780 MHz
LTE Band 71: 663 MHz ~ 698 MHz</td></tr>
<tr><td>Channel Bandwidth</td><td>LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz
LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz
LTE Band 13: 5MHz, 10MHz
LTE Band 14: 5MHz, 10MHz
LTE Band 17: 5MHz, 10MHz
LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
LTE Band 30: 5MHz, 10MHz
LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz</td></tr>
<tr><td>uplink modulations used</td><td>QPSK / 16QAM / 64QAM / 256QAM</td></tr>
<tr><td>LTE Voice / Data requirements</td><td>Voice and Data</td></tr>
<tr><td>LTE Release Version</td><td>R16</td></tr>
<tr><td>CA Support</td><td>Supported, Uplink and Downlink</td></tr>
<tr><td>LTE MPR permanently built-in by design</td><td>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3
<table>
<tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr>
<tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr>
<tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr>
<tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr>
<tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr>
<tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr>
</table></td></tr>
<tr><td>LTE A-MPR</td><td>In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)</td></tr>
<tr><td>Spectrum plots for RB configuration</td><td>A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.</td></tr>
<tr><td>Power reduction applied to satisfy SAR compliance</td><td>Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body -worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.</td></tr>
<tr><td>LTE Carrier Aggregation Combinations</td><td>Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.</td></tr>
<tr><td>LTE Carrier Aggregation Additional Information</td><td>1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted</td></tr>
</table>

	powers were evaluated per FCC Guidance. 2. This device supports maximum of 4 carriers in the downlink and 2 carriers in the uplink.

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

LTE Band 2

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

LTE Band 4

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

LTE Band 5

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

LTE Band 7

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

LTE Band 12

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

LTE Band 13

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

LTE Band 14

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Channel #	Channel #	Freq.(MHz)
L	23305	790.5	23330	793
M	23330	793		
H	23355	795.5		

LTE Band 17

	Bandwidth 5 MHz		Bandwidth 10 MHz	
	Channel #	Freq.(MHz)	Channel #	Freq. (MHz)
L	23755	706.5	23780	709
M	23790	710	23790	710
H	23825	713.5	23800	711

LTE Band 25

	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905

LTE Band 26										
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5

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

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

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

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

LTE Band 42								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460
M	42590	3500	42590	3500	42590	3500	42590	3500
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540

LTE Band 48								
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560
LM	55810	3607	55815	3607.5	55820	3608	55830	3609
MH	56170	3643	56165	3642.5	56160	3642	56150	3641
H	56715	3697.5	56690	3695	56665	3692.5	56640	3690

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

<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

Band	Antenna	Head	Bodyworn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI 4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
LTE Band 66(4)	Ant 0	24.0	19.0	19.0	22.0	24.0	24.0
LTE Band 66(4) Other PA	Ant 0	24.0	19.0	19.0	22.0	24.0	24.0
LTE Band 66(4)	Ant 1	17.9	19.3	17.2	20.8	24.0	24.0
LTE Band 66(4) Other PA	Ant 1	17.9	19.3	17.2	20.8	24.0	24.0
LTE Band 12(17)	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 12(17)	Ant 1	23.3	24.0	23.8	24.0	24.0	24.0
LTE Band 26(5)	Ant 0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 26(5)	Ant 1	21.5	23.1	22.3	24.0	24.0	24.0
LTE Band 41(38)	Ant 9	24.0	22.3	22.3	24.0	24.0	24.0
LTE Band 41 HPUE	Ant 9	27.0	23.9	23.9	25.6	27.0	27.0
LTE Band 41(38)	Ant 1	16.8	17.3	12.0	21.1	24.0	24.0
LTE Band 41 HPUE	Ant 1	18.4	18.9	13.6	22.7	27.0	27.0
LTE Band 38	Ant 6	23.1	21.8	20.2	24.0	24.0	24.0
LTE Band 41	Ant 6	23.0	21.8	20.2	23.0	23.0	23.0
LTE Band 41 HPUE	Ant 6	24.7	23.4	21.8	26.0	26.0	26.0
LTE Band 38	Ant 3	17.0	17.0	17.0	17.0	17.0	17.0
LTE Band 41	Ant 3	18.0	20.0	18.3	20.0	20.0	20.0
LTE Band 41 HPUE	Ant 3	19.6	21.7	19.9	23.0	23.0	23.0
LTE Band 25(2)	Ant 0	24.0	17.2	15.4	21.3	24.0	24.0
LTE Band 2 Other PA	Ant 0	24.0	17.2	15.4	21.3	24.0	24.0
LTE Band 25(2)	Ant 1	15.8	18.4	15.9	20.4	24.0	24.0
LTE Band 2 Other PA	Ant 1	15.8	18.4	15.9	20.4	24.0	24.0

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450MHz ~ 3550MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450MHz ~ 3550MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B4/5/7/12/13/14/30/66/48/71
LTE Anchor Bands for n5	LTE B2/7/30/66/48
LTE Anchor Bands for n7	LTE B2/4/5/12/66
LTE Anchor Bands for n12	LTE B2/66
LTE Anchor Bands for n25	LTE B7/12/26/66
LTE Anchor Bands for n26	LTE B7
LTE Anchor Bands for n66	LTE B2/5/7/12/13/14/30/48/71
LTE Anchor Bands for n71	LTE B2/748/66
LTE Anchor Bands for n41	LTE B2/4/5/12/25/26/66/71
LTE Anchor Bands for n77	LTE B2/5/7/12/13/14/25/30/41/66/71
LTE Anchor Bands for n78	LTE B2/4/5/7/12/13/25/26/38/66/41/71

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band

NR Band 2

	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900

NR Band 5

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

NR Band 7

	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		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 12

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

NR Band 14				
	Bandwidth 5MHz		Bandwidth 10MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	158100	790.5	158600	793
M	158600	793		
H	159100	795.5		

NR Band 25																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895

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

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

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

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

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

NR Band 38										
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515004	2575.02	515502	2577.51	516000	2580	517002	2585.01	518004	2590.02
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	522996	2614.98	522498	2612.49	522000	2610	520998	2604.99	519996	2599.98

NR Band 41																				
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77 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	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652834	3792.51	652668	3790.02	652500	3787.5	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

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

NR Band 77 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	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78 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	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

<For NR Overlap Bands Description>

1) NR Bands BW

Band	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35 MHz	40 MHz	45 MHz	50 MHz	60 MHz	70 MHz	80 MHz	90 MHz	100 MHz
FR1 n5	Yes	Yes	Yes	Yes											
FR1 n26	Yes	Yes	Yes	Yes											
FR1 n38		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
FR1 n2	Yes	Yes	Yes	Yes											
FR1 n25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes							

2) NR Bands Tune up:

Band	Antenna	Head	Bodyworn	Hotspot	Extremity	Sensor Off	Default
		DSI 2	DSI 3	DSI 7	DSI 6	DSI 4	Tune-up Limit
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	
FR1 n25(2)	Ant 0	24	19.3	16.9	22.2	24	24
FR1 n25(2) Other PA	Ant 0	24	19.3	16.9	22.2	24	24
FR1 n25(2)	Ant 1	16.5	18.5	16.8	21.6	24	24
FR1 n25(2) Other PA	Ant 1	16.5	18.5	16.8	21.6	24	24
FR1 n26(5)	Ant 0	24	24	24	24	24	24
FR1 n26(5)	Ant 1	23	24	23.1	24	24	24
FR1 n41(38)	Ant 9	25	19.8	19.8	22	25	25

FR1 n41 HPUE	Ant 9	28	22.8	22.8	25	28	28
FR1 n41 Other PA	Ant 9	24	19.8	19.8	22	24	24
FR1 n41 HPUE Other PA	Ant 9	24	22.8	22.8	25	27	27
FR1 n41(38)	Ant 1	16.5	16.8	10.8	19	24	24
FR1 n41 HPUE	Ant 1	19.5	19.8	13.8	22	24	24
FR1 n41 Other PA	Ant 1	16.5	16.8	10.9	19.3	24	24
FR1 n41 HPUE Other PA	Ant 1	19.5	19.8	13.9	22.3	27	27
FR1 n41(38)	Ant 6	22.7	23.5	19.3	25	25	25
FR1 n41 HPUE	Ant 6	25.7	26	22.3	26	26	26
FR1 n41 Other PA	Ant 6	22.7	19.5	19.3	23	23	23
FR1 n41 HPUE Other PA	Ant 6	25.7	22.5	22.3	24	24	24
FR1 n38	Ant 3	13	16	14	16.5	16.5	16.5
FR1 n41	Ant 3	13	16	14	19	22	22
FR1 n41 HPUE	Ant 3	16	19	17	22	22	22
FR1 n41 Other PA	Ant 3	14.1	18.4	16.7	22	23	23
FR1 n41 HPUE Other PA	Ant 3	17.1	21.4	19.7	23	23	23
FR1 n77(78) Part 27O PC3	Ant 7	14.8	17.5	12.5	19.3	24	24
FR1 n77(78) Part 27Q PC3	Ant 7	14.8	17.5	12.5	19.3	24	24
FR1 n77(78) Part 27O PC3 Other PA	Ant 7	14.8	17.5	12.5	19.3	24	24
FR1 n77(78) Part 27Q PC3 Other PA	Ant 7	14.8	17.5	12.5	19.3	24	24
FR1 n77(78) Part 27O PC2	Ant 7	17.8	20.5	15.5	22.3	27	27
FR1 n77(78) Part 27Q PC2	Ant 7	17.8	20.5	15.5	22.3	27	27
FR1 n77(78) Part 27O PC2 Other PA	Ant 7	17.8	20.5	15.5	22.3	27	27
FR1 n77(78) Part 27Q PC2 Other PA	Ant 7	17.8	20.5	15.5	22.3	27	27
FR1 n77(78) Part 27O PC3	Ant 4	19	15	14	18.5	23	23
FR1 n77(78) Part 27Q PC3	Ant 4	19	15	14	18.5	24	24
FR1 n77(78) Part 27O PC3 Other PA	Ant 4	21	16.1	13.9	20.2	24	24
FR1 n77(78) Part 27Q PC3 Other PA	Ant 4	21	16.1	13.9	20.2	24	24
FR1 n77(78) Part 27O PC2	Ant 4	22	18	17	21.5	25	25
FR1 n77(78) Part 27Q PC2	Ant 4	22	18	17	21.5	25	25
FR1 n77(78) Part 27O PC2 Other PA	Ant 4	24	19.1	16.9	23.2	27	27
FR1 n77(78) Part 27Q PC2 Other PA	Ant 4	24	19.1	16.9	23.2	27	27
FR1 n77(78) Part 27O PC3	Ant 8	17.7	16.4	14.7	20.6	24	24
FR1 n77(78) Part 27Q PC3	Ant 8	17.7	16.4	14.7	20.6	24	24
FR1 n77(78) Part 27O PC3 Other PA	Ant 8	16	15	13	19	22.5	22.5
FR1 n77(78) Part 27Q PC3 Other PA	Ant 8	16	15	13	19	22.5	22.5
FR1 n77(78) Part 27O PC2	Ant 8	20.7	19.4	17.7	23.6	26	26
FR1 n77(78) Part 27Q PC2	Ant 8	20.7	19.4	17.7	23.6	26	26
FR1 n77(78) Part 27O PC2 Other PA	Ant 8	19	18	16	22	22.5	22.5
FR1 n77(78) Part 27Q PC2 Other PA	Ant 8	19	18	16	22	22.5	22.5
FR1 n77(78) Part 27O PC3	Ant 9	22	21.2	21.2	22	22	22
FR1 n77(78) Part 27Q PC3	Ant 9	24	21.2	21.2	22.2	24	24
FR1 n77(78) Part 27O PC3 Other PA	Ant 9	24	21.2	21.2	20.8	24	24
FR1 n77(78) Part 27Q PC3 Other PA	Ant 9	24	21.2	21.2	20.8	24	24
FR1 n77(78) Part 27O PC2	Ant 9	22	22	22	22	22	22
FR1 n77(78) Part 27Q PC2	Ant 9	24	24	24	24	24	24
FR1 n77(78) Part 27O PC2 Other PA	Ant 9	27	24.2	24.2	23.8	27	27
FR1 n77(78) Part 27Q PC2 Other PA	Ant 9	27	24.2	24.2	23.8	27	27

5. Smart Transmit feature for RF Exposure compliance

Qualcomm® Smart Transmit™ 3.0 of Smart Transmit (GEN2) Feature operates based on pre-defined sub6 antenna groups (AG). This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

Note that WLAN/BT operations are not enabled with Smart Transmit.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) version 20 to enable the Smart Transmit Gen2 Feature.

<Terminologies in this report>

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

<SAR Characterization>

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

Antenna Group:

Antenna Group 0 (AG0)	ANT1 & ANT3 & ANT4 & ANT6 & ANT7 & ANT8
Antenna Group 1 (AG1)	ANT0 & ANT9

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

To account for total uncertainty, SAR_design_target should be determined as:

$$SAR\_design\_target < SAR_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

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

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

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

Band	Antenna	Head DSI2	Bodyworn DSI3	Hotspot DSI7	Extremity DSI6	Sensor off DSI4	Pmax*
GSM850	Ant 0	31.2	24.6	23.4	22.5	22.5	22.5
GSM1900	Ant 0	35.7	16.7	14.5	19.3	19.0	19.0
WCDMA II	Ant 0	35.3	16.7	15.1	20.0	23.0	23.0
WCDMA II	Ant 1	16.1	17.0	14.1	19.7	23.0	23.0
WCDMA IV	Ant 0	32.2	18.2	18.2	21.8	23.0	23.0
WCDMA IV	Ant 1	16.7	18.7	15.9	21.4	23.0	23.0
WCDMA V	Ant 0	29.4	23.1	23.1	27.8	23.0	23.0
WCDMA V	Ant 1	20.9	22.0	20.2	25.2	23.0	23.0
LTE Band 25(2)	Ant 0	32.6	16.2	14.4	20.3	23.0	23.0
LTE Band 2 Other PA	Ant 0	32.2	16.2	14.4	20.3	23.0	23.0
LTE Band 25(2)	Ant 1	14.8	17.4	14.9	19.4	23.0	23.0
LTE Band 2 Other PA	Ant 1	14.8	17.4	14.9	19.4	23.0	23.0
LTE Band 66(4)	Ant 0	32.4	18.0	18.0	21.0	23.0	23.0
LTE Band 66(4) Other PA	Ant 0	32.4	18.0	18.0	21.0	23.0	23.0
LTE Band 66(4)	Ant 1	16.9	18.3	16.2	19.8	23.0	23.0
LTE Band 66(4) Other PA	Ant 1	16.9	18.3	16.2	19.8	23.0	23.0
LTE Band 7	Ant 9	26.8	19.5	19.5	21.4	23.0	23.0
LTE Band 7	Ant 1	12.9	14.8	10.3	16.3	22.0	22.0
LTE Band 12(17)	Ant 0	32.0	24.9	24.9	23.0	23.0	23.0
LTE Band 12(17)	Ant 1	22.3	23.4	22.8	23.0	23.0	23.0
LTE Band 13	Ant 0	30.5	24.2	24.2	23.0	23.0	23.0
LTE Band 13	Ant 1	22.4	22.7	21.6	23.0	23.0	23.0
LTE Band 14	Ant 0	30.0	23.6	23.6	23.0	23.0	23.0
LTE Band 14	Ant 1	21.5	22.3	21.4	23.0	23.0	23.0
LTE Band 26(5)	Ant 0	30.2	23.2	23.2	28.0	23.0	23.0
LTE Band 26(5)	Ant 1	20.5	22.1	21.3	23.0	23.0	23.0
LTE Band 30	Ant 9	29.0	21.2	21.2	21.9	23.0	23.0
LTE Band 30	Ant 1	13.1	15.6	11.8	17.1	22.0	22.0
LTE Band 41(38) PC3	Ant 9	26.4	19.3	19.3	21.0	22.4	21.0
LTE Band 41 PC2	Ant 9	26.4	19.3	19.3	21.0	22.4	22.4
LTE Band 41(38) PC3	Ant 1	13.8	14.3	9.0	18.1	22.4	21.0
LTE Band 41 PC2	Ant 1	13.8	14.3	9.0	18.1	22.4	22.4
LTE Band 38	Ant 6	20.1	18.8	17.2	21.4	21.4	21.0
LTE Band 41 PC3	Ant 6	20.1	18.8	17.2	21.4	21.4	20.0
LTE Band 41 PC2	Ant 6	20.1	18.8	17.2	21.4	21.4	21.4
LTE Band 38	Ant 3	15.0	17.1	15.3	18.4	14.0	14.0
LTE Band 41 PC3	Ant 3	15.0	17.1	15.3	18.4	18.4	17.0
LTE Band 41 PC2	Ant 3	15.0	17.1	15.3	18.4	18.4	18.4
LTE Band 42	Ant 4	22.9	14.9	13.7	17.9	22.0	22.0
LTE Band 42	Ant 7	14.1	16.1	12.9	17.5	20.5	20.5
LTE Band 42	Ant 8	14.3	15.2	12.6	19.4	20.0	20.0
LTE Band 42	Ant 9	28.6	19.4	19.4	21.5	22.0	22.0
LTE Band 48	Ant 7	13.5	15.6	11.7	17.2	20.5	20.5
LTE Band 48 Other PA	Ant 7	13.5	14.0	9.5	15.5	20.5	20.5
LTE Band 48	Ant 4	21.7	14.3	13.4	19.2	21.0	21.0
LTE Band 48 Other PA	Ant 4	21.7	14.3	13.4	18.5	21.0	21.0
LTE Band 48	Ant 8	13.5	14.1	11.0	19.6	20.0	20.0

LTE Band 48 Other PA	Ant 8	13.5	12.0	11.0	17.5	20.0	20.0
LTE Band 48	Ant 9	26.2	20.5	20.5	20.4	21.0	21.0
LTE Band 48 Other PA	Ant 9	26.2	18.5	18.5	20.0	21.0	21.0
LTE Band 71	Ant 0	32.5	25.3	25.3	23.0	23.0	23.0
LTE Band 71	Ant 1	22.0	23.2	22.0	23.0	23.0	23.0
FR1 n7	Ant 9	28.5	18.3	18.3	21.3	23.0	23.0
FR1 n7	Ant 1	13.4	14.1	9.9	16.3	23.0	23.0
FR1 n12	Ant 0	34.9	27.2	27.2	23.0	23.0	23.0
FR1 n12	Ant 1	22.5	24.3	22.8	23.0	23.0	23.0
FR1 n14	Ant 0	32.8	25.8	25.8	23.0	23.0	23.0
FR1 n14	Ant 1	21.9	23.2	21.7	23.0	23.0	23.0
FR1 n25(2)	Ant 0	34.8	18.3	15.9	21.2	23.0	23.0
FR1 n25(2) Other PA	Ant 0	34.8	18.3	15.9	21.2	23.0	23.0
FR1 n25(2)	Ant 1	15.5	17.5	15.8	20.6	23.0	23.0
FR1 n25(2) Other PA	Ant 1	15.5	17.5	15.8	20.6	23.0	23.0
FR1 n26(5)	Ant 0	33.6	25.0	25.0	23.0	23.0	23.0
FR1 n26(5)	Ant 1	22.0	23.7	22.1	23.0	23.0	23.0
FR1 n30	Ant 9	30.5	21.5	21.5	22.7	23.0	23.0
FR1 n30	Ant 1	12.9	15.3	11.3	18.5	23.0	23.0
FR1 n66	Ant 0	33.9	18.6	16.6	20.7	23.0	23.0
FR1 n66 Other PA	Ant 0	33.9	18.6	16.6	20.7	23.0	23.0
FR1 n66	Ant 1	16.6	18.8	16.5	21.4	23.0	23.0
FR1 n66 Other PA	Ant 1	16.6	18.8	16.5	21.4	23.0	23.0
FR1 n70	Ant 0	34.1	19.8	19.3	22.4	23.0	23.0
FR1 n70	Ant 1	17.8	21.2	18.2	22.1	23.0	23.0
FR1 n71	Ant 0	35.7	27.1	27.1	23.0	23.0	23.0
FR1 n71	Ant 1	22.5	24.0	22.0	23.0	23.0	23.0
FR1 n41(38) PC3	Ant 9	27.9	18.8	18.8	21.0	24.0	24.0
FR1 n41 PC2	Ant 9	27.9	18.8	18.8	21.0	24.0	24.0
FR1 n41 PC3 Other PA	Ant 9	27.9	18.8	18.8	21.0	23.0	23.0
FR1 n41 PC2 Other PA	Ant 9	27.9	18.8	18.8	21.0	23.0	23.0
FR1 n41(38) PC3	Ant 1	15.5	15.8	9.8	18.0	23.0	23.0
FR1 n41 PC2	Ant 1	15.5	15.8	9.8	18.0	23.0	20.0
FR1 n41 PC3 Other PA	Ant 1	15.5	15.8	9.9	18.3	23.0	23.0
FR1 n41 PC2 Other PA	Ant 1	15.5	15.8	9.9	18.3	23.0	23.0
FR1 n41(38) PC3	Ant 6	21.7	22.5	18.3	24.0	24.0	24.0
FR1 n41 PC2	Ant 6	21.7	22.5	18.3	24.0	24.0	22.0
FR1 n41 PC3 Other PA	Ant 6	21.7	18.5	18.3	22.5	24.0	22.0
FR1 n41 PC2 Other PA	Ant 6	21.7	18.5	18.3	22.5	24.0	20.0
FR1 n38 PC3	Ant 3	12.0	15.0	13.0	18.0	21.0	15.5
FR1 n41 PC3	Ant 3	12.0	15.0	13.0	18.0	21.0	21.0
FR1 n41 PC2	Ant 3	12.0	15.0	13.0	18.0	21.0	18.0
FR1 n41 PC3 Other PA	Ant 3	13.1	17.4	15.7	21.0	22.0	22.0
FR1 n41 PC2 Other PA	Ant 3	13.1	17.4	15.7	21.0	22.0	19.0
FR1 n48	Ant 7	13.8	16.8	13.0	18.6	23.0	23.0
FR1 n48 Other PA	Ant 7	13.8	16.8	13.0	18.6	23.0	23.0
FR1 n48	Ant 4	21.1	15.5	13.6	20.3	23.0	23.0
FR1 n48 Other PA	Ant 4	21.1	15.5	13.6	20.3	23.0	23.0
FR1 n48	Ant 8	14.6	14.8	13.7	21.3	23.0	23.0
FR1 n48 Other PA	Ant 8	14.6	14.8	13.7	21.3	23.0	23.0
FR1 n48	Ant 9	27.2	20.2	20.2	20.5	24.0	24.0
FR1 n48 Other PA	Ant 9	27.2	20.2	20.2	20.5	24.0	24.0
FR1 n77(78) Part 27O PC3	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27Q PC3	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27O PC3 Other PA	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27Q PC3 Other PA	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0

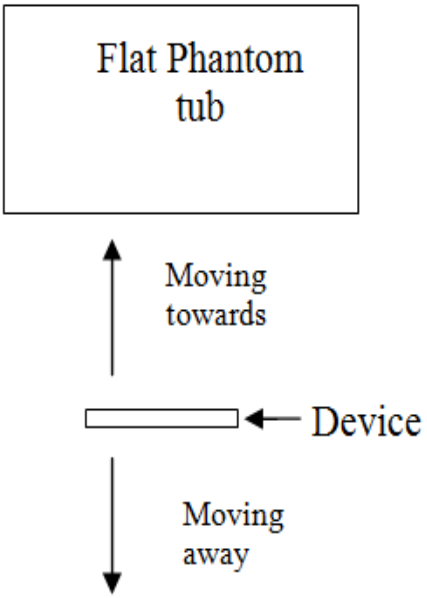
FR1 n77(78) Part 27O PC2	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27O PC2 Other PA	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27Q PC2 Other PA	Ant 7	13.8	16.5	11.5	18.3	23.0	23.0
FR1 n77(78) Part 27O PC3	Ant 4	18.0	14.0	13.0	17.5	23.0	22.0
FR1 n77(78) Part 27Q PC3	Ant 4	18.0	14.0	13.0	17.5	23.0	21.0
FR1 n77(78) Part 27O PC3 Other PA	Ant 4	20.0	15.1	12.9	19.2	23.0	23.0
FR1 n77(78) Part 27Q PC3 Other PA	Ant 4	20.0	15.1	12.9	19.2	23.0	23.0
FR1 n77(78) Part 27O PC2	Ant 4	18.0	14.0	13.0	17.5	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 4	18.0	14.0	13.0	17.5	23.0	21.0
FR1 n77(78) Part 27O PC2 Other PA	Ant 4	20.0	15.1	12.9	19.2	23.0	23.0
FR1 n77(78) Part 27Q PC2 Other PA	Ant 4	20.0	15.1	12.9	19.2	23.0	23.0
FR1 n77(78) Part 27O PC3	Ant 8	16.7	15.4	13.7	19.6	23.0	23.0
FR1 n77(78) Part 27Q PC3	Ant 8	16.7	15.4	13.7	19.6	23.0	22.0
FR1 n77(78) Part 27O PC3 Other PA	Ant 8	15.0	14.0	12.0	18.0	23.0	21.5
FR1 n77(78) Part 27Q PC3 Other PA	Ant 8	15.0	14.0	12.0	18.0	23.0	18.5
FR1 n77(78) Part 27O PC2	Ant 8	16.7	15.4	13.7	19.6	23.0	23.0
FR1 n77(78) Part 27Q PC2	Ant 8	16.7	15.4	13.7	19.6	23.0	22.0
FR1 n77(78) Part 27O PC2 Other PA	Ant 8	15.0	14.0	12.0	18.0	23.0	21.5
FR1 n77(78) Part 27Q PC2 Other PA	Ant 8	15.0	14.0	12.0	18.0	23.0	18.5
FR1 n77(78) Part 27O PC3	Ant 9	24.8	20.2	20.2	21.2	23.0	21.0
FR1 n77(78) Part 27Q PC3	Ant 9	24.8	20.2	20.2	21.2	23.0	23.0
FR1 n77(78) Part 27O PC3 Other PA	Ant 9	24.8	20.2	20.2	19.8	23.0	23.0
FR1 n77(78) Part 27Q PC3 Other PA	Ant 9	24.8	20.2	20.2	19.8	23.0	23.0
FR1 n77(78) Part 27O PC2	Ant 9	24.8	20.2	20.2	21.2	23.0	18.0
FR1 n77(78) Part 27Q PC2	Ant 9	24.8	20.2	20.2	21.2	23.0	20.0
FR1 n77(78) Part 27O PC2 Other PA	Ant 9	24.8	20.2	20.2	19.8	23.0	23.0
FR1 n77(78) Part 27Q PC2 Other PA	Ant 9	24.8	20.2	20.2	19.8	23.0	23.0

Note:
1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1.0 dB device uncertainty.
2) All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).
3) The max allowed output power is the Plimit + 1.0 dB device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

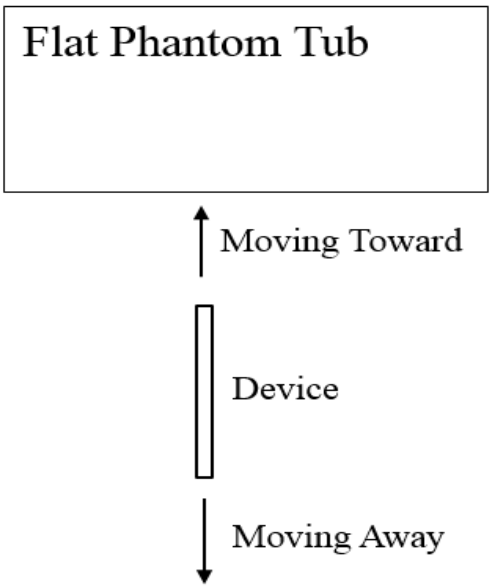
6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5825MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



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



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

<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	16	21	20	25

<Handheld for ANT 0>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	11	9	15	10	16

<Handheld for ANT9>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	11	9	15	4	9	10	16

<Handheld for ANT1&4>

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	12	10	15	5	10	11	16

<Handheld for ANT2&3&2+3&5&7&8&5+8>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	11	10	15	10	16	10	15

7. RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

8. Specific Absorption Rate (SAR)

8.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

8.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

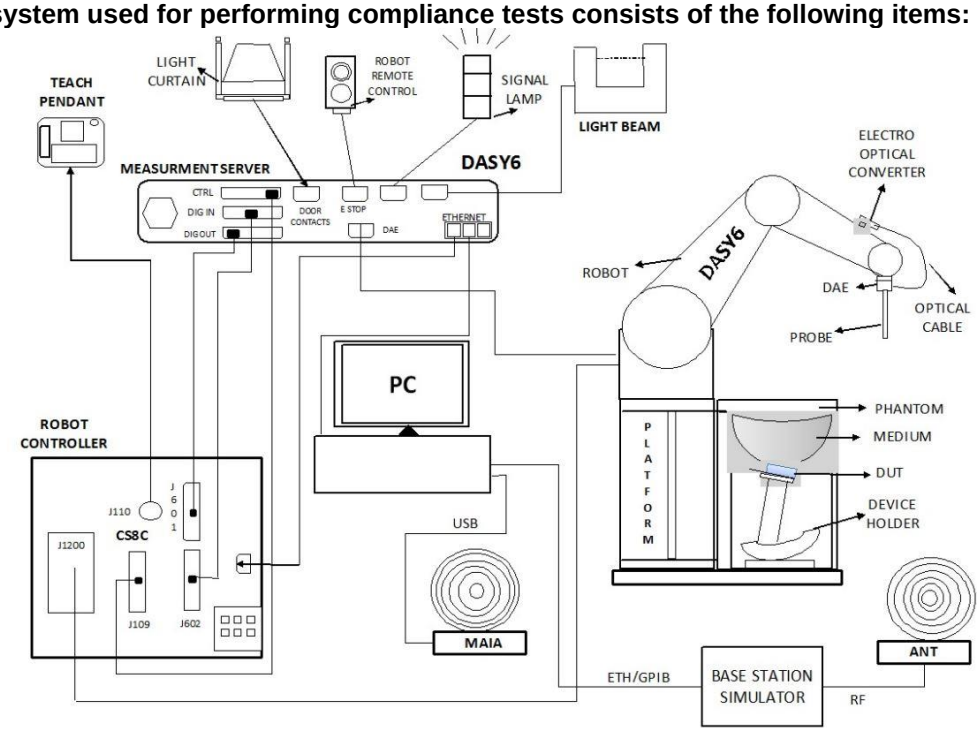
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

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



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

9.1 E-Field Probe

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

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	4 MHz – 10 GHz Linearity: ±0.2 dB (30 MHz – 10 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/g)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm

9.2 Data Acquisition Electronics (DAE)

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

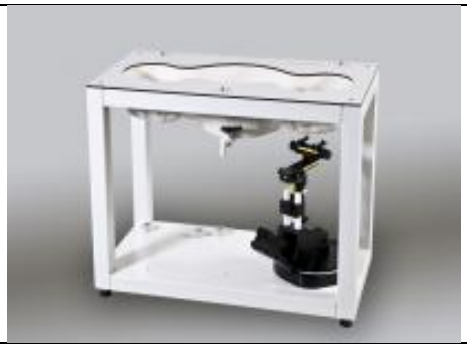
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

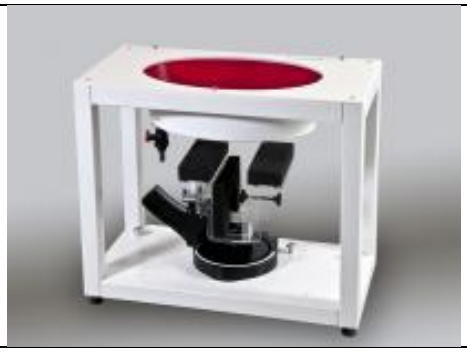
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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

<ELI Phantom>

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



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

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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

Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

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

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

Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

10.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

(a) Extraction of the measured data (grid and values) from the Zoom Scan
(b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
(c) Generation of a high-resolution mesh within the measured volume
(d) Interpolation of all measured values form the measurement grid to the high-resolution grid
(e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
(f) Calculation of the averaged SAR within masses of 1g and 10g

10.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

10.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

10.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

10.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

10.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2025/2/22
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2300MHz System Validation Kit	D2300V2	1055	2023/8/21	2026/8/20
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2024/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2026/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2026/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/21
SPEAG	Data Acquisition Electronics	DAE4	1279	2024/8/20	2025/8/19
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	2024/1/22	2025/1/21
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	NCR	NCR
CHIGO	Thermo-Hygrometer	HTC-1	55009	2024/1/4	2025/1/3
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	2024/2/19	2025/2/18
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2024/1/4	2025/1/3
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

Note:

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

12. System Verification

12.1 Tissue Simulating Liquids

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

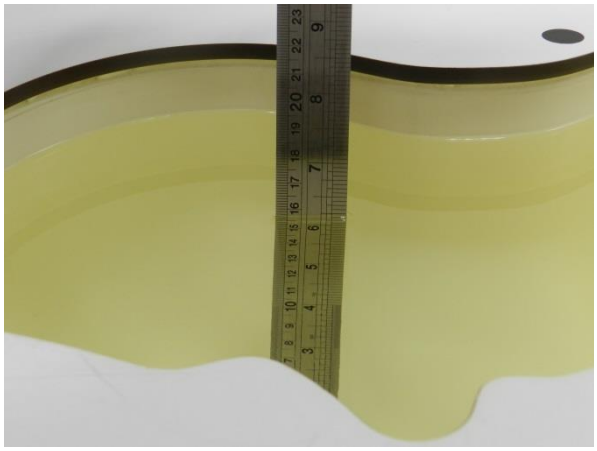


Fig 11.1 Photo of Liquid Height for Head SAR

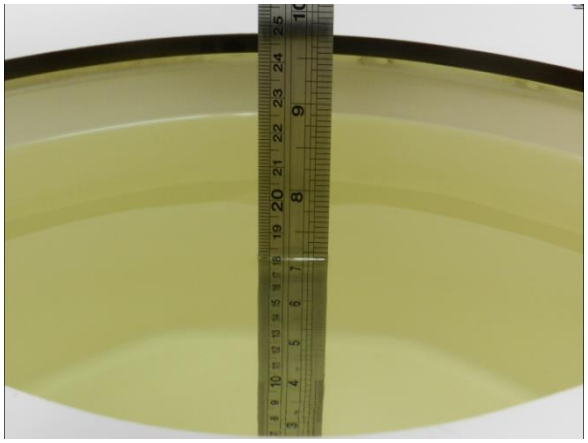


Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.6	0.900	41.192	0.89	41.90	1.12	-1.69	±5	2024/11/13
835	Head	22.9	0.902	41.240	0.90	41.50	0.22	-0.63	±5	2024/11/14
1750	Head	22.8	1.409	40.669	1.37	40.10	2.85	1.42	±5	2024/11/15
1900	Head	22.6	1.397	39.035	1.40	40.00	-0.21	-2.41	±5	2024/11/16
2300	Head	22.8	1.715	38.769	1.67	39.50	2.69	-1.85	±5	2024/11/17
2600	Head	22.7	1.926	38.230	1.96	39.00	-1.73	-1.97	±5	2024/11/18
3500	Head	22.9	2.784	38.912	2.91	37.90	-4.33	2.67	±5	2024/11/19
3700	Head	22.6	2.988	38.360	3.12	37.70	-4.23	1.75	±5	2024/11/20
3900	Head	22.7	3.171	38.038	3.32	37.50	-4.49	1.43	±5	2024/11/21
750	Head	22.6	0.888	42.260	0.89	41.90	-0.22	0.86	±5	2024/11/22
835	Head	22.7	0.912	41.937	0.90	41.50	1.33	1.05	±5	2024/11/23
1750	Head	22.9	1.317	40.224	1.37	40.10	-3.87	0.31	±5	2024/11/24
1900	Head	22.8	1.407	40.215	1.40	40.00	0.50	0.54	±5	2024/11/25
2300	Head	22.7	1.716	39.460	1.67	39.50	2.75	-0.10	±5	2024/11/26
2600	Head	22.9	2.030	40.346	1.96	39.00	3.57	3.45	±5	2024/11/27
3500	Head	22.6	2.813	38.735	2.91	37.90	-3.33	2.20	±5	2024/11/28
3700	Head	22.9	2.991	38.382	3.12	37.70	-4.13	1.81	±5	2024/11/29
3900	Head	22.8	3.171	39.019	3.32	37.50	-4.49	4.05	±5	2024/11/30
2450	Head	22.8	1.744	39.267	1.80	39.20	-3.11	0.17	±5	2024/12/1
5250	Head	22.7	4.573	35.720	4.71	35.90	-2.91	-0.50	±5	2024/12/2
5600	Head	22.8	4.997	35.371	5.07	35.50	-1.44	-0.36	±5	2024/12/3
5750	Head	22.9	5.105	34.869	5.22	35.40	-2.20	-1.50	±5	2024/12/4

12.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2024/11/13	750	Head	50	1087	3857	1279	0.436	8.58	8.72	1.63
2024/11/14	835	Head	50	4d298	3857	1279	0.461	9.89	9.22	-6.77
2024/11/15	1750	Head	50	1090	3857	1279	1.910	37.00	38.2	3.24
2024/11/16	1900	Head	50	5d118	3857	1279	2.020	39.30	40.4	2.80
2024/11/17	2300	Head	50	1055	3857	1279	2.530	48.40	50.6	4.55
2024/11/18	2600	Head	50	1112	3857	1279	2.630	55.10	52.6	-4.54
2024/11/19	3500	Head	50	1037	3857	1279	3.130	65.40	62.6	-4.28
2024/11/20	3700	Head	50	1008	3857	1279	3.110	67.20	62.2	-7.44
2024/11/21	3900	Head	50	1048	3857	1279	3.270	69.10	65.4	-5.35
2024/11/22	750	Head	50	1087	3857	1279	0.419	8.58	8.38	-2.33
2024/11/23	835	Head	50	4d298	3857	1279	0.488	9.89	9.76	-1.31
2024/11/24	1750	Head	50	1090	3857	1279	1.930	37.00	38.6	4.32
2024/11/25	1900	Head	50	5d118	3857	1279	1.970	39.30	39.4	0.25
2024/11/26	2300	Head	50	1055	3857	1279	2.370	48.40	47.4	-2.07
2024/11/27	2600	Head	50	1112	3857	1279	2.950	55.10	59	7.08
2024/11/28	3500	Head	50	1037	3857	1279	3.170	65.40	63.4	-3.06
2024/11/29	3700	Head	50	1008	3857	1279	3.190	67.20	63.8	-5.06
2024/11/30	3900	Head	50	1048	3857	1279	3.650	69.10	73	5.64
2024/12/1	2450	Head	50	1095	3857	1279	2.670	52.60	53.4	1.52
2024/12/2	5250	Head	50	1113	3857	1279	4.170	81.50	83.4	2.33
2024/12/3	5600	Head	50	1113	3857	1279	4.420	82.60	88.4	7.02
2024/12/4	5750	Head	50	1113	3857	1279	4.080	80.80	81.6	0.99

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/11/13	750	Head	50	1087	3857	1279	0.293	5.65	5.86	3.72
2024/11/14	835	Head	50	4d298	3857	1279	0.307	6.45	6.14	-4.81
2024/11/15	1750	Head	50	1090	3857	1279	0.998	19.50	19.96	2.36
2024/11/16	1900	Head	50	5d118	3857	1279	1.070	20.40	21.4	4.90
2024/11/17	2300	Head	50	1055	3857	1279	1.270	23.70	25.4	7.17
2024/11/18	2600	Head	50	1112	3857	1279	1.200	24.80	24	-3.23
2024/11/19	3500	Head	50	1037	3857	1279	1.180	24.70	23.6	-4.45
2024/11/20	3700	Head	50	1008	3857	1279	1.130	24.40	22.6	-7.38
2024/11/21	3900	Head	50	1048	3857	1279	1.150	24.10	23	-4.56
2024/11/22	750	Head	50	1087	3857	1279	0.281	5.65	5.62	-0.53
2024/11/23	835	Head	50	4d298	3857	1279	0.328	6.45	6.56	1.71
2024/11/24	1750	Head	50	1090	3857	1279	1.050	19.50	21	7.69
2024/11/25	1900	Head	50	5d118	3857	1279	1.060	20.40	21.2	3.92
2024/11/26	2300	Head	50	1055	3857	1279	1.140	23.70	22.8	-3.80
2024/11/27	2600	Head	50	1112	3857	1279	1.280	24.80	25.6	3.23
2024/11/28	3500	Head	50	1037	3857	1279	1.200	24.70	24	-2.83
2024/11/29	3700	Head	50	1008	3857	1279	1.190	24.40	23.8	-2.46
2024/11/30	3900	Head	50	1048	3857	1279	1.230	24.10	24.6	2.07
2024/12/1	2450	Head	50	1095	3857	1279	1.260	24.70	25.2	2.02
2024/12/2	5250	Head	50	1113	3857	1279	1.220	23.30	24.4	4.72
2024/12/3	5600	Head	50	1113	3857	1279	1.200	23.70	24	1.27
2024/12/4	5750	Head	50	1113	3857	1279	1.180	23.00	23.6	2.61

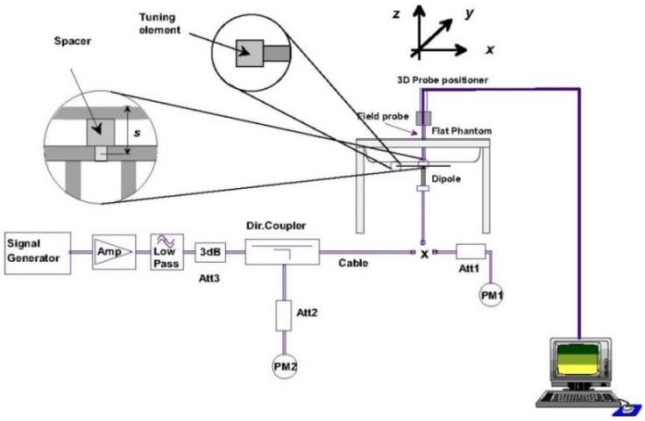


Fig 11.3.1 System Performance Check Setup

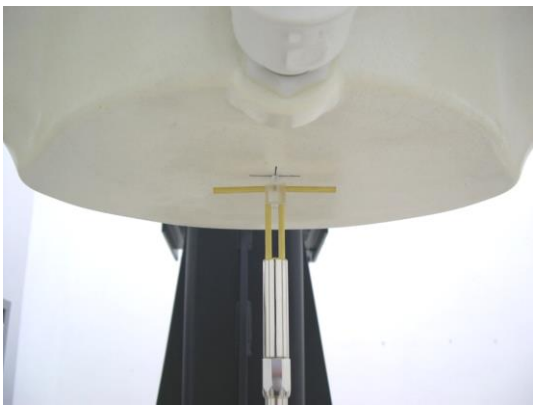


Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

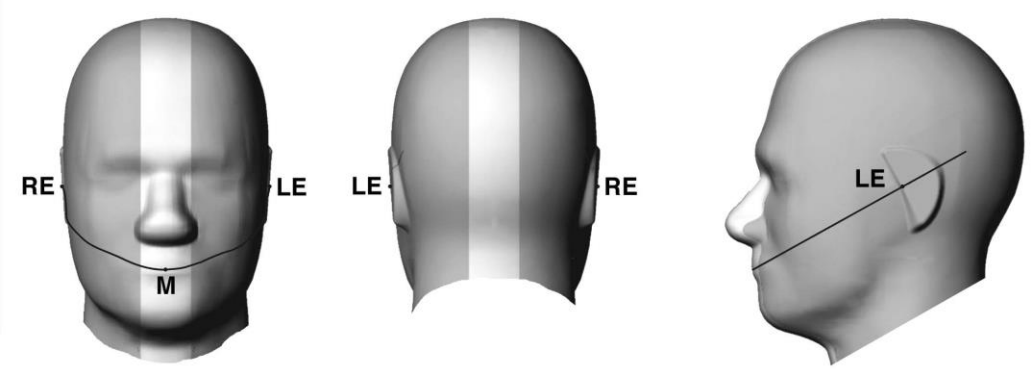


Fig 12.1.1 Front, back, and side views of SAM twin phantom

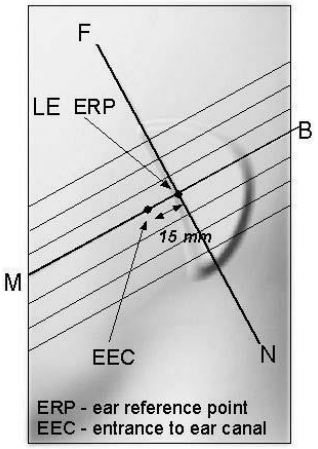


Fig 12.1.2 Close-up side view of phantom showing the ear region.

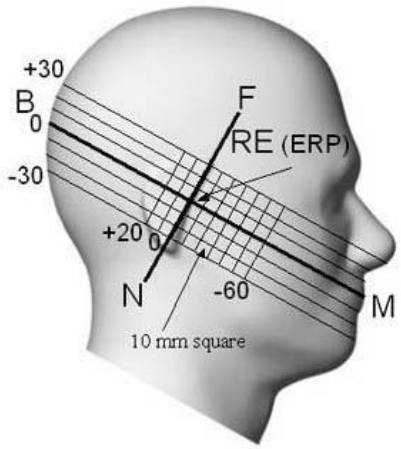


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

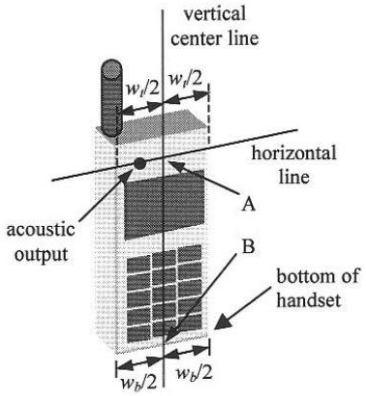


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

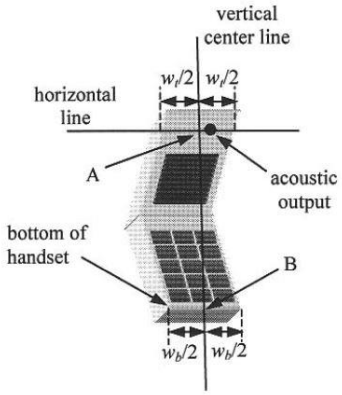


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

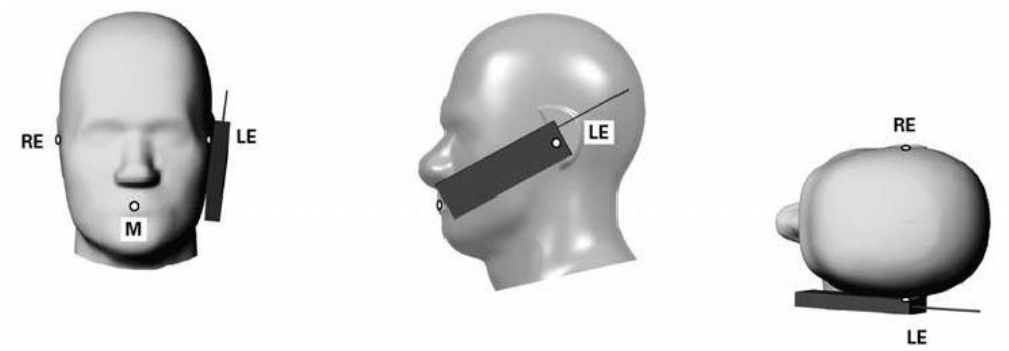


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

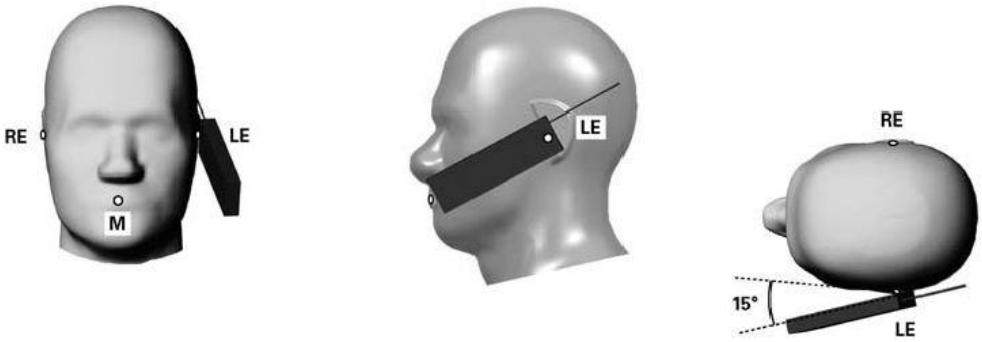


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 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.

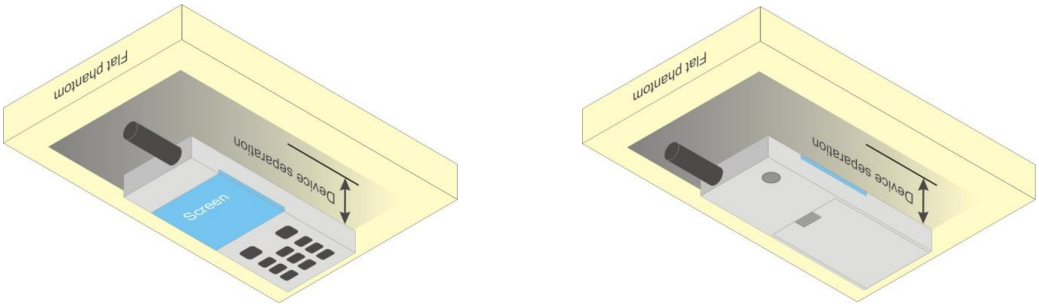


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

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

13.6 Wireless Router

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

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

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c. For sub-test 5, Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c.

Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   i. Set RMC 12.2Kbps + HSDPA mode.
   ii. Set Cell Power = -25 dBm
   iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
   iv. Select HSDPA Uplink Parameters
   v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
      a). Subtest 1: β_c/β_d=2/15
      b). Subtest 2: β_c/β_d=12/15
      c). Subtest 3: β_c/β_d=15/8
      d). Subtest 4: β_c/β_d=15/4
   vi. Set Delta ACK, Delta NACK and Delta CQI = 8
   vii. Set Ack-Nack Repetition Factor to 3
   viii. Set CQI Feedback Cycle (k) to 4 ms
   ix. Set CQI Repetition Factor to 2
   x. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

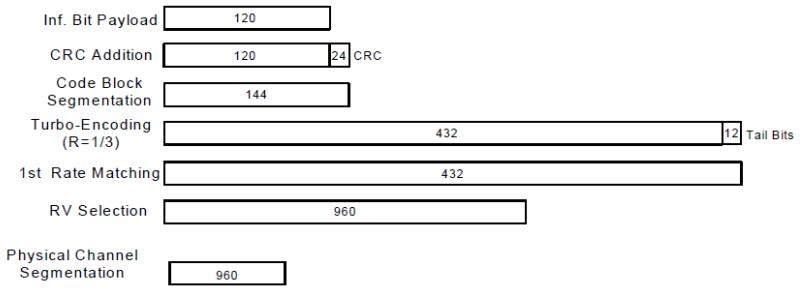


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

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

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

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

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

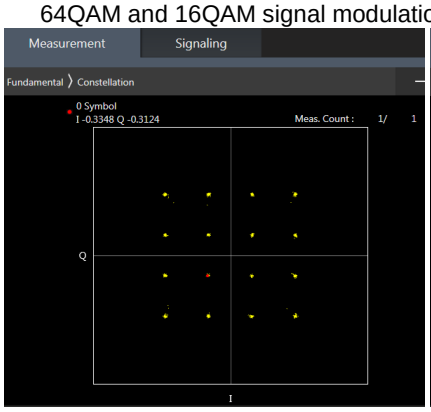
General Note:

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+.

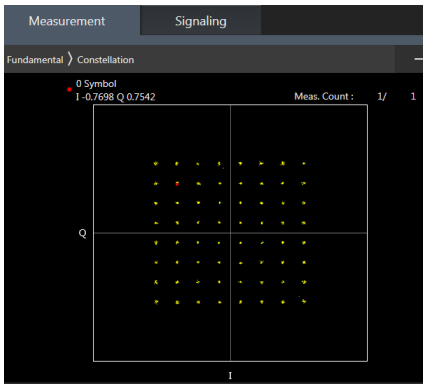
<LTE Conducted Power>

General Note:

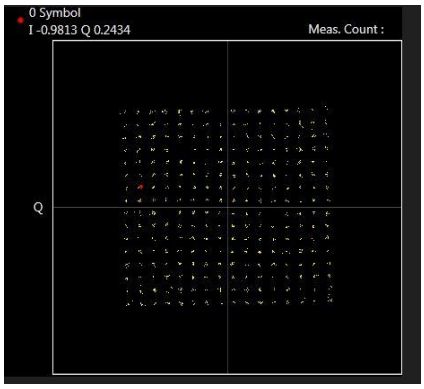
1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested 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 /B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



16QAM



64QAM



256QAM

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
b. "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

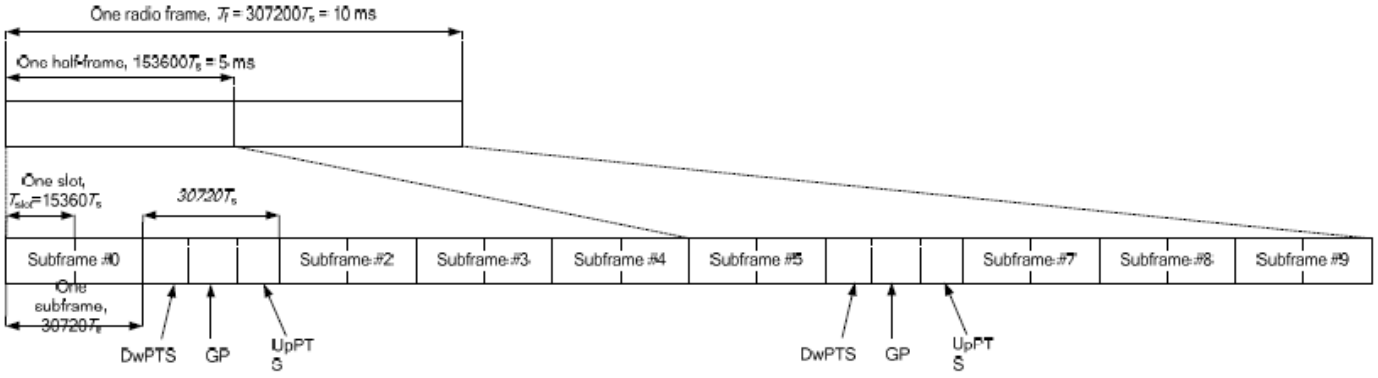


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Special subframe (30720·T_s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	**Normal cyclic prefix in uplink**	**Extended cyclic prefix in uplink**
Uplink duty factor in one special subframe	**0~4**	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T_s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	**Normal cyclic prefix in uplink**	**Extended cyclic prefix in uplink**
Uplink duty factor in one special subframe	**0~3**	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

For LTE TDD Power class 2

i. Uplink-downlink configuration: 1. In a half-frame consisted of 5 subfames, uplink operation is in 2 uplink subframes and 1 special subframe.
ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (2+0.167)/5 = 43.3%
iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (2+0.143)/5 = 42.9%
v. For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

For LTE TDD Power class 3

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

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

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

<LTE Carrier Aggregation>

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

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. All permutations exist. No restrictions on Pcell & Scell combinations. Only LTE Band 29A is limited to Scell.
4. Per Oct. 2024 TCB workshop, Manufacturer declares that TX power measurement for multiple DL CA configurations is deemed not required as the DL CA has no impact on the TX power according to preliminary scan. TX power measured in LTE standalone operation represents the worst case.

2CC Downlink Carrier Aggregation				3CC Downlink Carrier Aggregation				4CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset
1	CA_12A-30A	30A	3CC-1	1	CA_12A-30A-66A	66A, 30A,	4CC-1	1	CA_12A-30A-66A-66A	66A, 30A	
2	CA_12A-48A	48A		2	CA_12A-66A-66A	66A	4CC-9	2	CA_12B-66A-66A	66A	
3	CA_12A-66A	66A	3CC-1	3	CA_12A-66C	66A	4CC-10	3	CA_13A-48C-66A	66A	
4	CA_12B		3CC-4	4	CA_12B-66A	66A	4CC-11	4	CA_13A-48D		
5	CA_13A-48A	48A	3CC-5	5	CA_13A-48A-66A	66A		5	CA_14A-30A-66A-66A	66A, 30A	
6	CA_13A-66A	66A	3CC-5	6	CA_13A-48C		4CC-12	6	CA_14A-66A-66A-66A	66A	
7	CA_14A-30A	30A	3CC-8	7	CA_13A-66A-66A	66A	4CC-13	7	CA_25A-41D	25A	
8	CA_14A-66A	66A	3CC-8	8	CA_14A-30A-66A	66A, 30A,	4CC-5	8	CA_29A-30A-66A-66A	66A, 30A	
9	CA_25A-25A	25A-25A, 25A	3CC-10	9	CA_14A-66A-66A	66A	4CC-6	9	CA_2A-12A-66A-66A	66A, 2A	
10	CA_25A-26A	25A	3CC-10	10	CA_25A-25A-26A	25A		10	CA_2A-12A-66C	66A, 2A	
11	CA_25A-41A	25A-41A, 41A, 25A		11	CA_25A-25A-66A	66A, 25A	4CC-74	11	CA_2A-12B-66A	66A, 2A	
12	CA_25A-66A	25A-66A, 66A, 25A	3CC-11	12	CA_25A-41C	25A		12	CA_2A-13A-48C	2A	
13	CA_26A-41A	41A		13	CA_26A-41C			13	CA_2A-13A-66A-66A	CA_2A-66A,66A, 2A	
14	CA_29A-30A	30A	3CC-14	14	CA_29A-30A-66A	66A, 30A	4CC-8	14	CA_2A-14A-66A-66A	66A, 2A	
15	CA_29A-66A	66A	3CC-14	15	CA_29A-66A-66A	66A	4CC-15	15	CA_2A-29A-66A-66A	CA_2A-66A, 66A, 2A	
16	CA_2A-12A	2A	3CC-16	16	CA_2A-12A-30A	30A, 2A,	4CC-16	16	CA_2A-2A-12A-30A	30A, 2A	
17	CA_2A-13A	2A	3CC-19	17	CA_2A-12A-66A	CA_2A-66A, 66A, 2A	4CC-17	17	CA_2A-2A-12A-66A	66A, 2A	
18	CA_2A-14A	2A	3CC-21	18	CA_2A-12B	2A	4CC-11	18	CA_2A-2A-12B	2A	
19	CA_2A-17A	2A		19	CA_2A-13A-48A	2A		19	CA_2A-2A-13A-66A	66A, 2A	
20	CA_2A-29A	2A	3CC-23	20	CA_2A-13A-66A	CA_2A-66A, 66A, 2A	4CC-13	20	CA_2A-2A-14A-30A	30A, 2A	
21	CA_2A-2A	2A-2A, 2A	3CC-25	21	CA_2A-14A-30A	30A, 2A	4CC-20	21	CA_2A-2A-14A-66A	66A, 2A	
22	CA_2A-30A	2A-30A, 30A, 2A	3CC-23	22	CA_2A-14A-66A	66A, 2A	4CC-21	22	CA_2A-2A-29A-30A	30A, 2A	
23	CA_2A-48A	2A-48A, 48A, 2A	3CC-36	23	CA_2A-29A-30A	30A, 2A	4CC-22	23	CA_2A-2A-30A-66A	66A, 30A, 2A	
24	CA_2A-4A	2A-4A, 4A, 2A	3CC-39	24	CA_2A-29A-66A	66A, 2A	4CC-15	24	CA_2A-2A-4A-12A	4A, 2A	
25	CA_2A-5A	2A	3CC-31	25	CA_2A-2A-12A	2A, 12A	4CC-16	25	CA_2A-2A-4A-4A	4A, 2A	
26	CA_2A-66A	2A-66A, 66A, 2A	3CC-37	26	CA_2A-2A-13A	2A	4CC-19	26	CA_2A-2A-4A-5A	4A, 2A	
27	CA_2A-71A	2A	3CC-33	27	CA_2A-2A-14A	2A	4CC-21	27	CA_2A-2A-4A-71A	4A, 2A	
28	CA_2A-7A	2A-7A, 7A, 2A	3CC-34	28	CA_2A-2A-29A	2A	4CC-22	28	CA_2A-2A-5A-30A	30A, 2A	
29	CA_2C	2C, 2A	3CC-63	29	CA_2A-2A-30A	30A, 2A	4CC-23	29	CA_2A-2A-5A-66A	66A,2A	
30	CA_30A-66A	30A-66A, 66A, 30A	3CC-1	30	CA_2A-2A-4A	4A, 2A	4CC-24	30	CA_2A-2A-5B	2A	
31	CA_38C	38C, 38A		31	CA_2A-2A-5A	2A	4CC-28	31	CA_2A-2A-66A-66A	66A, 2A	
32	CA_41A-41A	41A-41A, 41A		32	CA_2A-2A-66A	66A, 2A	4CC-23	32	CA_2A-2A-66A-71A	66A, 2A	
33	CA_41A-48A	41A-48A, 48A, 41A		33	CA_2A-2A-71A	2A	4CC-32	33	CA_2A-2A-66B	66A, 2A	
34	CA_41C	41C, 41A	3CC-12	34	CA_2A-2A-7A	7A, 2A	4CC-35	34	CA_2A-2A-66C	66A, 2A	
35	CA_48A-48A	48A-48A, 48A	3CC-68	35	CA_2A-30A-66A	66A, 30A, 2A	4CC-36	35	CA_2A-2A-7A-66A	66A, 2A	
36	CA_48A-66A	48A-66A, 66A, 48A	3CC-68	36	CA_2A-48A-48A	2A		36	CA_2A-30A-66A-66A	66A, 30A, 2A	
37	CA_48A-71A	48A	3CC-69	37	CA_2A-48A-66A	CA_2A-66A, 66A, 2A	4CC-38	37	CA_2A-48A-48C	2A	
38	CA_48B	48B, 48A		38	CA_2A-48C	2A	4CC-39	38	CA_2A-48A-66A-66A	CA_2A-66A, 66A, 2A	

39	CA_48C	48C, 48A	3CC-38	39	CA_2A-4A-12A	CA_2A-4A, 4A, 2A	4CC-42	39	CA_2A-48C-66A	66A, 2A	
40	CA_4A-12A	4A	3CC-39	40	CA_2A-4A-13A	4A, 2A		40	CA_2A-48D	2A	
41	CA_4A-13A	4A	3CC-40	41	CA_2A-4A-29A	CA_2A-4A, 4A, 2A		41	CA_2A-4A-12B	4A, 2A	
42	CA_4A-17A	4A		42	CA_2A-4A-30A	4A, 30A, 2A		42	CA_2A-4A-4A-12A	4A, 2A	
43	CA_4A-29A	4A	3CC-77	43	CA_2A-4A-4A	4A, 2A	4CC-42	43	CA_2A-4A-4A-5A	4A, 2A	
44	CA_4A-30A	4A-30A, 4A, 30A	3CC-84	44	CA_2A-4A-5A	CA_2A-4A, 4A, 2A	4CC-43	44	CA_2A-4A-7A-7A	CA_2A-4A, 7A, 4A, 2A	
45	CA_4A-48A	4A-48A, 4A, 48A		45	CA_2A-4A-71A	71A, 4A, 2A		45	CA_2A-4A-7C	7A, 4A, 2A	
46	CA_4A-4A	4A-4A, 4A	3CC-43	46	CA_2A-4A-7A	CA_2A-4A, 7A, 4A, 2A	4CC-44	46	CA_2A-5A-48C	2A	
47	CA_4A-5A	4A	3CC-44	47	CA_2A-5A-30A	30A, 2A	4CC-28	47	CA_2A-5A-66A-66A	CA_2A-66A, 66A, 2A	
48	CA_4A-71A	4A	3CC-45	48	CA_2A-5A-48A	2A		48	CA_2A-5A-7A-7A	7A,2A	
49	CA_4A-7A	4A-7A, 7A, 4A	3CC-46	49	CA_2A-5A-66A	CA_2A-66A,66A, 2A	4CC-29	49	CA_2A-66A-66A-66A	66A, 2A	
50	CA_5A-30A	30A	3CC-47	50	CA_2A-5A-7A	7A,2A	4CC-48	50	CA_2A-66A-66A-71A	66A, 2A	
51	CA_5A-41A	41A		51	CA_2A-5B	2A		51	CA_2A-66C-71A	66A, 2A	
52	CA_5A-48A	48A	3CC-89	52	CA_2A-66A-66A	CA_2A-66A, 66A, 2A	4CC-52	52	CA_2A-7A-66A-66A	7A, 66A, 2A	
53	CA_5A-66A	66A	3CC-88	53	CA_2A-66A-71A	66A, 2A	4CC-32	53	CA_2A-7A-7A-13A	7A, 2A,	
54	CA_5A-7A	7A	3CC-50	54	CA_2A-66B	66A, 2A		54	CA_2A-7A-7A-29A	7A, 2A	
55	CA_5B		3CC-51	55	CA_2A-66C	66A, 2A	4CC-51	55	CA_2A-7A-7A-66A	7A, 66A, 2A	
56	CA_66A-66A	66A-66A, 66A	3CC-52	56	CA_2A-7A-12A	7A,2A		56	CA_2A-7C-13A	7A, 2A	
57	CA_66A-71A	66A	3CC-53	57	CA_2A-7A-13A	7A,2A	4CC-53	57	CA_2A-7C-66A	7A, 66A, 2A	
58	CA_66B	66B, 66A	3CC-54	58	CA_2A-7A-29A	7A, 2A	4CC-54	58	CA_2C-66A-66A	66A, 2A	
59	CA_66C	66C, 66A	3CC-55	59	CA_2A-7A-66A	7A, 66A, 2A	4CC-55	59	CA_48A-48A-66A-66A	66A	
60	CA_7A-12A	7A	3CC-56	60	CA_2A-7A-7A	7A, 2A	4CC-55	60	CA_48A-48C-66A	66A	
61	CA_7A-13A	7A	3CC-57	61	CA_2A-7C	7A, 2A	4CC-56	61	CA_48C-48C	CA_48C, 48A	
62	CA_7A-25A	7A-25A, 7A, 25A	3CC-104	62	CA_2C-12A	2A		62	CA_48C-66A-66A	66A	
63	CA_7A-29A	7A	3CC-110	63	CA_2C-66A	66A, 2A	4CC-58	63	CA_48D-66A	66A	
64	CA_7A-66A	7A-66A, 7A, 66A	3CC-111	64	CA_30A-66A-66A	66A, 30A	4CC-8	64	CA_48E	CA_48C, 48A	
65	CA_7A-7A	7A-7A, 7A	3CC-111	66	CA_41A-41C	CA_41C, 41A		65	CA_4A-48D	4A	
66	CA_7B	7B, 7A		67	CA_41D	CA_41C, 41A	4CC-7	66	CA_4A-4A-12B	4A	
67	CA_7C	7C, 7A	3CC-112	68	CA_48A-48A-66A	66A	4CC-59	67	CA_5A-30A-66A-66A	66A,30A	
				69	CA_48A-48A-71A			68	CA_5A-48A-66A-66A	66A	
				70	CA_48A-48C	48A	4CC-60	69	CA_5A-48C-66A	66A	
				71	CA_48A-66A-66A	66A	4CC-59	70	CA_5A-48D		
				72	CA_48C-66A	66A	4CC-62	71	CA_5A-7A-66A-66A	7A, 66A	
				73	CA_48C-71A			72	CA_5A-7A-7A-66A	7A, 66A	
				74	CA_48D	CA_48C, 48A	4CC-70	73	CA_5A-7C-66A	7A, 66A	
				75	CA_4A-12A-30A	4A, 30A		74	CA_7A-25A-25A-66A	7A, 66A, 25A	
				76	CA_4A-12B	4A	4CC-66	75	CA_7A-7A-13A-66A	7A, 66A	
				77	CA_4A-29A-30A	4A, 30A		76	CA_7A-7A-25A-25A	7A, 25A	
				78	CA_4A-48C	4A		77	CA_7A-7A-25A-66A	7A, 66A, 25A	
				79	CA_4A-4A-12A	4A	4CC-42	78	CA_7A-7A-29A-66A	7A, 66A	
				80	CA_4A-4A-13A	4A		79	CA_7A-7A-66A-66A	7A, 66A	
				81	CA_4A-4A-5A	4A		80	CA_7C-13A-66A	7A, 66A	
				82	CA_4A-4A-71A	4A		81	CA_7C-66A-66A	7A, 66A	
				83	CA_4A-4A-7A	7A, 4A					
				84	CA_4A-5A-30A	4A, 30A					
				85	CA_4A-7A-12A	7A, 4A					
				86	CA_4A-7A-7A	7A, 4A	4CC-44				
				87	CA_4A-7C	7A, 4A					
				88	CA_5A-30A-66A	66A,30A	4CC-67				
				89	CA_5A-48A-66A	66A	4CC-68				
				90	CA_5A-48C		4CC-69				
				91	CA_5A-66A-66A	66A	4CC-71				
				92	CA_5A-7A-66A	7A, 66A	4CC-72				
				93	CA_5A-7A-7A	7A	4CC-72				
				94	CA_5A-7C	7A	4CC-73				
				95	CA_5B-30A	30A					

				96	CA_5B-66A	66A					
				97	CA_66A-66A-66A	66A	4CC-6				
				98	CA_66A-66A-71A	66A					
				99	CA_66A-66B	66A					
				100	CA_66A-66C	66A					
				101	CA_66C-71A	66A	4CC-51				
				102	CA_7A-12A-66A	7A, 66A,					
				103	CA_7A-13A-66A	7A, 66A,	4CC-75				
				104	CA_7A-25A-25A	7A, 25A	4CC-76				
				105	CA_7A-25A-66A	7A, 66A, 25A	4CC-74				
				106	CA_7A-29A-66A	7A, 66A	4CC-78				
				107	CA_7A-66A-66A	7A, 66A	4CC-79				
				108	CA_7A-7A-13A	7A	4CC-75				
				109	CA_7A-7A-25A	7A, 25A	4CC-76				
				110	CA_7A-7A-29A	7A	4CC-78				
				111	CA_7A-7A-66A	7A, 66A	4CC-79				
				112	CA_7C-13A	7A	4CC-80				
				113	CA_7C-29A	7A					
				114	CA_7C-66A	7A, 66A	4CC-82				

LTE Carrier Aggregation Conducted Power (Downlink)

i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.

ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.

iii. The device supports downlink four carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.

iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.

vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.

vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

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

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 2/4/7/25/30/38/41/42/48/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

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

4X4 MIMO	Band
	LTE Band 2/4/7/25/30/38/41/42/48/66

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Intra-band		
CA_5B	Ant 0	Ant 1
CA_38C	Ant 9	Ant 1
CA_41C	Ant 9	ANT 1/6/3
CA_48B	ANT7	ANT4/8/9
CA_48C	ANT7	ANT4/8/9

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B5/38/41/48 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.

ii. 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.

iii. 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.

iv. LTE CA_48B test was covered by LTE CA_48C; therefore, SAR was only assessed for LTE CA_48C.

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA Inter-band	2CC Uplink Carrier Aggregation	
CA_2A-12A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_2A-13A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_2A-14A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_2A-4A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_2A-5A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_2A-66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_2A-71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_4A-12A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_4A-13A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_4A-5A	Ant 1 + Ant 0	Ant 0 + Ant 1
CA_4A-71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_5A-30A	Ant 0 + Ant 1	Ant 1 + Ant 9
CA_5A-66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_7A-12A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_66A-71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_12A-30A	Ant 0 + Ant 1	Ant 1 + Ant 9
CA_12A-66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_13A-66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_14A-30A	Ant 1 + Ant 9	Ant 0 + Ant 1
CA_14A-66A	Ant 0 + Ant 1	Ant 1 + Ant 0

General Note:

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

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n12/n25/n26/n41/n66/n71/n77/n78 is NSA mode.
2. 5G NR n2/n5/n7/n12/n14/n25/n26/n30/n38/n41/n48/n66/n70/n71/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. 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.
5. 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.
6. 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.
7. 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.
8. When channel bandwidth of SA and NSA is same, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time. When channel bandwidth of SA and NSA is different, chose the largest channel bandwidth mode among SA and NSA to perform power measurement.
9. For the NR bands, when channel bandwidth of SA and NSA is same, and the maximum power of NSA mode is same as SA total power level, SA SAR can represent NSA mode SAR. For the bands, when channel bandwidth of SA and NSA is different, choose the largest channel bandwidth with maximum power to perform SAR testing, so the largest channel bandwidth SAR can represent the smallest channel bandwidth SAR.
10. This device supports HPUE mode for 5GNR n41/n77/n78 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 n41/n77/n78 HPUE, 5GNR n41/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. For 5GNR inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two 5GNR bands. Smart Transmit algorithm controls the total RF exposure base on 5GNR inter CA bands to not exceed FCC limit.
13. 5G NR n41/n48/n77/n78 supports UL MIMO mode.

<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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

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

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

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

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

<EN-DC combination>

ENDC	LTE TX	NR TX	LTE TX	NR TX
DC_12A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_12A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_12A_n41A	Ant 0	Ant 1	Ant 9	Ant 0
DC_12A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_12A_n77A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_12A_n78A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_12A_n7A	Ant 0	Ant 1	Ant 9	Ant 0
DC_13A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_13A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_13A_n77A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_13A_n78A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_14A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_14A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_14A_n77A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_25A_n41A	Ant 0	Ant 1	Ant 9	Ant 0
DC_25A_n77A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_25A_n78A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_26A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_26A_n41A	Ant 0	Ant 1	Ant 9	Ant 0
DC_26A_n78A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_2A_n12A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n41A	Ant 0	Ant 1	Ant 9	Ant 0
DC_2A_n5A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n71A	Ant 0	Ant 1	Ant 1	Ant 0
DC_2A_n77A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_2A_n78A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_2A_n7A	Ant 0	Ant 1	Ant 9	Ant 0

DC_30A_n2A	Ant 9	Ant 1	Ant 1	Ant 0
DC_30A_n5A	Ant 9	Ant 1	Ant 1	Ant 0
DC_30A_n66A	Ant 9	Ant 1	Ant 1	Ant 0
DC_30A_n77A	Ant 9	Ant 7	Ant 1	ANT4/8/9
DC_38A_n78A	Ant 9	Ant 7	Ant 1	ANT4/8/9
DC_41A_n77A	Ant 9	Ant 7	Ant 1	ANT4/8/9
DC_41A_n78A	Ant 9	Ant 7	Ant 1	ANT4/8/9
DC_48A_n2A	Ant 7	Ant 0	ANT4/8/9	Ant 1
DC_48A_n5A	Ant 4	Ant 0	Ant 7/9/8	Ant 1
DC_48A_n66A	Ant 7	Ant 0	ANT4/8/9	Ant 1
DC_48A_n71A	Ant 4	Ant 0	Ant 7/9/8	Ant 1
DC_4A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_4A_n41A	Ant 0	Ant 1	Ant 1	Ant 9
DC_4A_n78A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_4A_n7A	Ant 0	Ant 1	Ant 1	Ant 9
DC_5A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_5A_n41A	Ant 0	Ant 1	Ant 1	Ant 9
DC_5A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_5A_n77A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_5A_n78A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_5A_n7A	Ant 0	Ant 1	Ant 1	Ant 9
DC_66A_n12A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n25A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n41A	Ant 0	Ant 1	Ant 1	Ant 9
DC_66A_n5A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n71A	Ant 0	Ant 1	Ant 1	Ant 0
DC_66A_n77A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_66A_n78A	Ant 0	Ant 7	Ant 1	ANT4/8/9
DC_66A_n7A	Ant 0	Ant 1	Ant 1	Ant 9
DC_71A_n2A	Ant 0	Ant 1	Ant 1	Ant 0
DC_71A_n41A	Ant 0	Ant 1	Ant 1	Ant 9
DC_71A_n66A	Ant 0	Ant 1	Ant 1	Ant 0
DC_71A_n77A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_71A_n78A	Ant 0	Ant 4	Ant 1	Ant 7/9/8
DC_7A_n25A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n26A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n2A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n5A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n66A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n71A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n77A	Ant 9	Ant 1	Ant 1	Ant 0
DC_7A_n78A	Ant 9	Ant 1	Ant 1	Ant 0

UL MIMO combination:

ULMIMO	Antenna Tx	
n41	Ant9+Ant1	/
n48	Ant7+Ant4	Ant8+Ant4
n77	Ant7+Ant4	Ant8+Ant4
n78	Ant7+Ant4	Ant8+Ant4

Inter-Band CA Configuration:

NR Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	
CA_n12A-n30A	Ant 0 + Ant 1	Ant 1 + Ant 9
CA_n12A-n66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n12A-n77A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n14A-n30A	Ant 1 + Ant 9	Ant 0 + Ant 1
CA_n14A-n66A	Ant 1 + Ant 9	Ant 0 + Ant 1
CA_n14A-n77A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n5A-n7A	Ant 1 + Ant 9	Ant 0 + Ant 1
CA_n5A-n25A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n5A-n30A	Ant 0 + Ant 1	Ant 1 + Ant 9
CA_n5A-n48A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n5A-n66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n5A-n77A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n5A-n78A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n7A-n25A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_n7A-n26A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_n7A-n66A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_n7A-n77A	Ant 9 + Ant 7	Ant 1 + Ant 4/8/9
CA_n7A-n78A	Ant 9 + Ant 7	Ant 1 + Ant 4/8/9
CA_n25A-n41A	Ant 0 + Ant 1	Ant 1 + Ant 9/3/6
CA_n25A-n48A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n25A-n66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n25A-n71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n25A-n77A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n25A-n78A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n26A-n77A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n2A-n12A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n2A-n14A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n2A-n30A	Ant 1 + Ant 9	Ant 0 + Ant 1
CA_n2A-n48A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n2A-n5A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n2A-n66A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n2A-n71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n2A-n77A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n30A-n66A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_n30A-n77A	Ant 9 + Ant 7	Ant 1 + Ant 4/8/9
CA_n3A-n78A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n41A-n66A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_n41A-n71A	Ant 9 + Ant 1	Ant 1 + Ant 0
CA_n48A-n66A	Ant 7 + Ant 0	Ant 4/8/9 + Ant 1
CA_n48A-n71A	Ant 4 + Ant 0	Ant 7/9/8 + Ant 1
CA_n66A-n71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n66A-n77A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n66A-n78A	Ant 0 + Ant 7	Ant 1 + Ant 4/8/9
CA_n70A-n71A	Ant 0 + Ant 1	Ant 1 + Ant 0
CA_n71A-n77A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8
CA_n71A-n78A	Ant 0 + Ant 4	Ant 1 + Ant 7/9/8

<WLAN Conducted Power>

General Note:

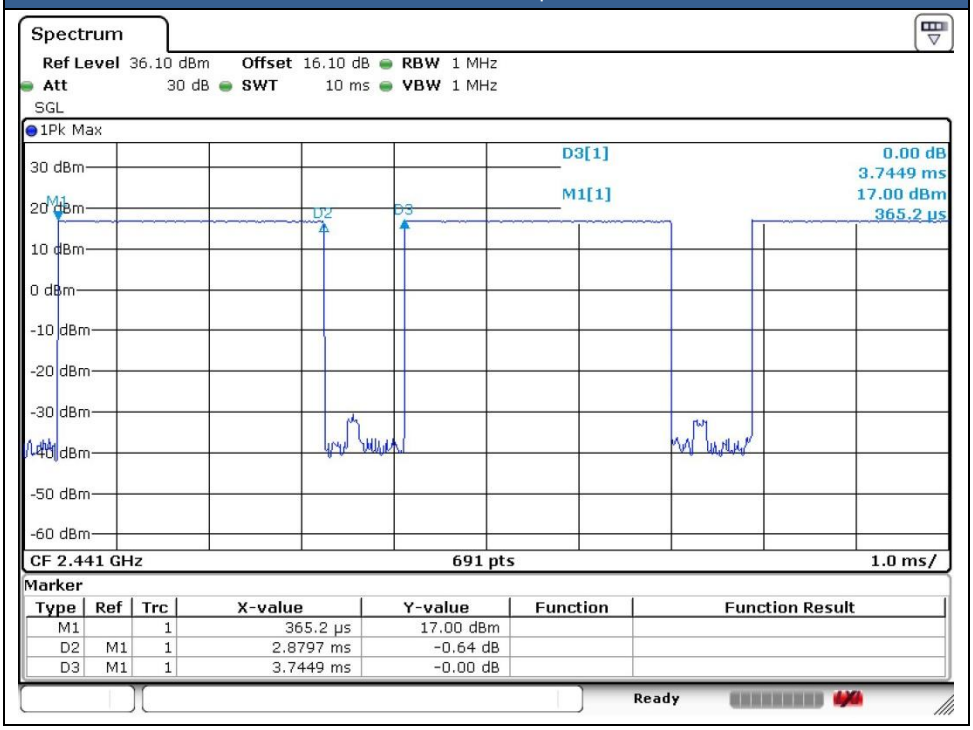
1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For “Not required”, SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
   a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
   b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
   c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. The 2.4GHz/5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
7. 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.
8. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.

<2.4GHz Bluetooth>

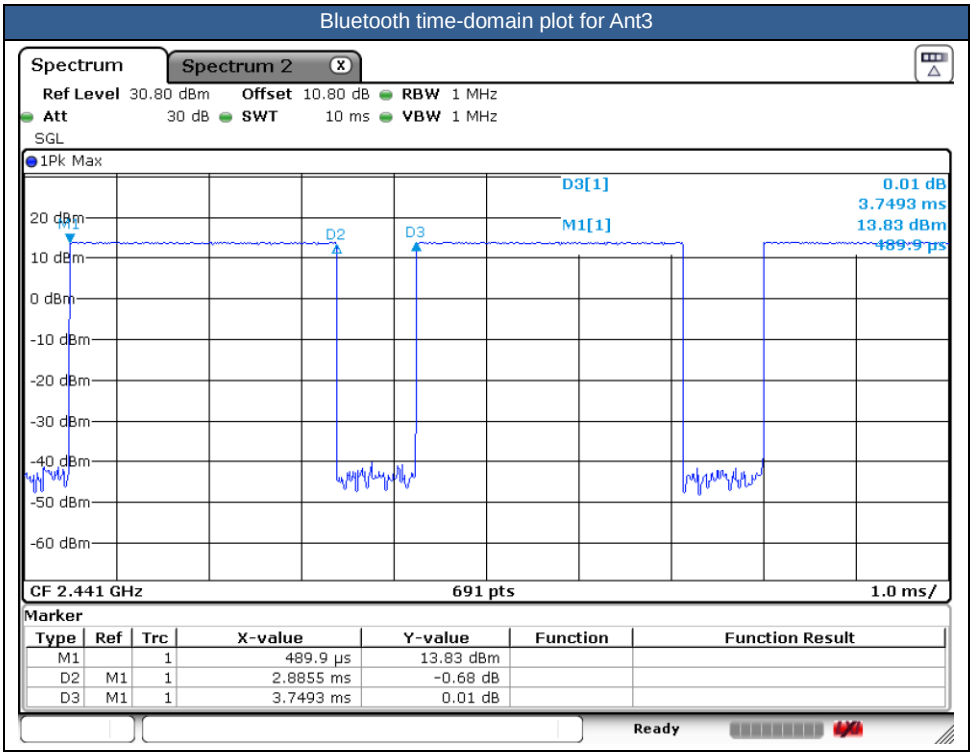
General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.9% for Ant2, 76.96% for Ant3 as following figure, for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to 83.3% for Bluetooth reported SAR calculation

Bluetooth time-domain plot for Ant2



Bluetooth time-domain plot for Ant3



15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
   c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
   d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   e. For 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 the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. For WLAN/BT when transmit simultaneously with each other, or when transmit simultaneous with WWAN/BT, power reduction will be activated to head exposure condition. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and extremity exposure conditions.
6. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
   a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM1900, WCDMA Band II/IV/V, LTE Band 2/4/5/7/25/30/66/38/41/42/48, 5GNR n2/n25/n7/n30/n38/n41/n48/n66/n70/n77/n78, WLAN2.4GHz/5.2GHz/5.8GHz, therefore product specific 10g SAR is necessary.
   b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
   c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
9. LTE B2/4/66 at ant0/1, LTE B48 at ant4/7/8/9, and 5GNR n2/25/66 at ant0/1, 5GNR n41 at ant1/3/6/9, 5GNR n48/77/78 at ant4/7/8/9 support different PAs for same antennas. And some LTE/NR bands support Other PA only under ENDC& UL CA. Some LTE/NR bands support different PAs for some antennas, whether it is 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 the worst-case PA was

chosen to perform full SAR testing to ensure the RF exposure is compliance and another PA verified the worst case.

10. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
11. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.

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 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

5G NR Note:

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
   b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
   c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
   d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
   e. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
   f. For 5G FR1 n5/n7/n26/n66 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. 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.

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

Exposure Condition	DSI	Trigger Conditions
Head SAR	DSI 2	Receiver on
Body worn SAR	DSI 3	Sensor On
Hotspot SAR	DSI 7	Hotspot On
Extremity (Handheld) SAR	DSI 6	Sensor On
Sensor Off SAR	DSI 4	Sensor Off

16.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	133322	683	1	22.98	24.00	1.265	-	-	0.08	0.113	0.143
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	133322	683	1	22.89	24.00	1.291	-	-	0.01	0.091	0.118
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	133322	683	1	22.98	24.00	1.265	-	-	0.03	0.063	0.080
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	133322	683	1	22.89	24.00	1.291	-	-	-0.08	0.065	0.084
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	133322	683	1	22.98	24.00	1.265	-	-	-0.08	0.108	0.137
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	133322	683	1	22.89	24.00	1.291	-	-	0.1	0.089	0.115
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	133322	683	1	22.98	24.00	1.265	-	-	-0.18	0.060	0.076
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	133322	683	1	22.89	24.00	1.291	-	-	0.1	0.054	0.070
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	133322	683	1	21.99	23.00	1.262	-	-	-0.08	0.684	**0.863**
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	133322	683	1	21.97	23.00	1.268	-	-	-0.15	0.397	0.503
	LTE Band 71	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	133322	683	1	21.96	23.00	1.271	-	-	0.19	0.392	0.498
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	133322	683	1	21.99	23.00	1.262	-	-	0.07	0.480	0.606
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	133322	683	1	21.97	23.00	1.268	-	-	-0.18	0.369	0.468
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	133322	683	1	21.99	23.00	1.262	-	-	-0.15	0.335	0.423
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	133322	683	1	21.97	23.00	1.268	-	-	-0.15	0.279	0.354
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	133322	683	1	21.99	23.00	1.262	-	-	-0.08	0.352	0.444
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	133322	683	1	21.97	23.00	1.268	-	-	-0.17	0.268	0.340
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	23.10	24.00	1.230	-	-	0.12	0.130	0.160
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	23.06	24.00	1.242	-	-	0.08	0.103	0.128
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	23.10	24.00	1.230	-	-	-0.17	0.077	0.095
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	23.06	24.00	1.242	-	-	-0.03	0.061	0.076
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	23.10	24.00	1.230	-	-	0.14	0.105	0.129
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	23.06	24.00	1.242	-	-	0.11	0.088	0.109
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	23.10	24.00	1.230	-	-	-0.05	0.066	0.081
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	23.06	24.00	1.242	-	-	0.18	0.060	0.074
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.29	23.30	1.262	-	-	0.14	0.642	0.810
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.21	23.30	1.285	-	-	-0.17	0.530	0.681
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.26	23.30	1.271	-	-	0.02	0.412	0.523
02	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.29	23.30	1.262	-	-	0.04	0.684	**0.863**
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.21	23.30	1.285	-	-	0.17	0.554	0.712
	LTE Band 12	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.26	23.30	1.271	-	-	-0.05	0.582	0.739
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.29	23.30	1.262	-	-	0.01	0.430	0.543
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.21	23.30	1.285	-	-	0.1	0.354	0.455
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.29	23.30	1.262	-	-	-0.17	0.438	0.553
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.21	23.30	1.285	-	-	0.04	0.358	0.460
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	23.10	24.00	1.230	-	-	-0.04	0.196	0.241
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	23.08	24.00	1.236	-	-	-0.08	0.160	0.198
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	23.10	24.00	1.230	-	-	0.17	0.107	0.132
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	23.08	24.00	1.236	-	-	0.18	0.094	0.116
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	23.10	24.00	1.230	-	-	-0.04	0.143	0.176
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	23.08	24.00	1.236	-	-	-0.08	0.118	0.146
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	23.10	24.00	1.230	-	-	-0.13	0.180	0.221
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	23.08	24.00	1.236	-	-	-0.13	0.081	0.100
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.38	23.40	1.265	-	-	-0.01	0.631	0.798
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.37	23.40	1.268	-	-	-0.08	0.508	0.644
03	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.38	23.40	1.265	-	-	-0.02	0.642	**0.812**
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.37	23.40	1.268	-	-	0.05	0.493	0.625
	LTE Band 13	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.37	23.40	1.268	-	-	0.06	0.508	0.644
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.38	23.40	1.265	-	-	-0.09	0.440	0.556
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.37	23.40	1.268	-	-	-0.08	0.349	0.442

	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.38	23.40	1.265	-	-	0.13	0.445	0.563
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.37	23.40	1.268	-	-	0.12	0.344	0.436
	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23330	793	1	22.93	24.00	1.279	-	-	0.03	0.199	0.255
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23330	793	1	22.91	24.00	1.285	-	-	0.18	0.158	0.203
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23330	793	1	22.93	24.00	1.279	-	-	0.16	0.117	0.150
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23330	793	1	22.91	24.00	1.285	-	-	-0.1	0.095	0.122
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23330	793	1	22.93	24.00	1.279	-	-	0.07	0.153	0.196
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23330	793	1	22.91	24.00	1.285	-	-	0.18	0.105	0.135
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23330	793	1	22.93	24.00	1.279	-	-	-0.1	0.120	0.154
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23330	793	1	22.91	24.00	1.285	-	-	0.01	0.086	0.111
	LTE Band 14	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	23330	793	1	21.70	22.50	1.202	-	-	0.06	0.704	0.846
	LTE Band 14	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	23330	793	1	21.61	22.50	1.227	-	-	-0.03	0.549	0.674
04	LTE Band 14	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	23330	793	1	21.61	22.50	1.227	-	-	0.05	0.718	**0.881**
	LTE Band 14	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	23330	793	1	21.70	22.50	1.202	-	-	-0.03	0.661	0.795
	LTE Band 14	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	23330	793	1	21.61	22.50	1.227	-	-	0.08	0.540	0.663
	LTE Band 14	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	23330	793	1	21.70	22.50	1.202	-	-	-0.07	0.506	0.608
	LTE Band 14	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	23330	793	1	21.61	22.50	1.227	-	-	0.05	0.401	0.492
	LTE Band 14	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	23330	793	1	21.70	22.50	1.202	-	-	-0.11	0.511	0.614
	LTE Band 14	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	23330	793	1	21.61	22.50	1.227	-	-	-0.12	0.398	0.489
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	136100	680.5	1	23.84	24.00	1.038	-	-	0.03	0.065	0.067
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	136100	680.5	1	23.74	24.00	1.062	-	-	-0.16	0.058	0.062
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	136100	680.5	1	23.84	24.00	1.038	-	-	-0.02	0.000	0.000
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	136100	680.5	1	23.74	24.00	1.062	-	-	0.15	0.000	0.000
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	136100	680.5	1	23.84	24.00	1.038	-	-	-0.09	0.066	0.068
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	136100	680.5	1	23.74	24.00	1.062	-	-	0.11	0.053	0.056
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	136100	680.5	1	23.84	24.00	1.038	-	-	-0.05	0.001	0.001
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	136100	680.5	1	23.74	24.00	1.062	-	-	-0.08	0.000	0.000
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	136100	680.5	1	22.36	23.50	1.300	-	-	0.16	0.608	0.791
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	136100	680.5	1	22.34	23.50	1.306	-	-	0.05	0.430	0.562
05	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	1	22.36	23.50	1.300	-	-	-0.06	0.683	**0.888**
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	1	22.34	23.50	1.306	-	-	0.05	0.419	0.547
	FR1 n71	20M	QPSK	100	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	136100	680.5	1	22.24	23.50	1.337	-	-	0.03	0.405	0.541
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	136100	680.5	1	22.36	23.50	1.300	-	-	-0.03	0.461	0.599
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	136100	680.5	1	22.34	23.50	1.306	-	-	-0.15	0.581	0.759
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	136100	680.5	1	22.36	23.50	1.300	-	-	0.02	0.465	0.605
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	136100	680.5	1	22.34	23.50	1.306	-	-	0.07	0.410	0.536
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	141500	707.5	1	23.51	24.00	1.119	-	-	0.16	0.059	0.066
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	141500	707.5	1	23.36	24.00	1.159	-	-	0.13	0.073	0.085
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	141500	707.5	1	23.51	24.00	1.119	-	-	-0.18	0.000	0.000
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	141500	707.5	1	23.36	24.00	1.159	-	-	0.02	0.000	0.000
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	141500	707.5	1	23.51	24.00	1.119	-	-	0.16	0.058	0.065
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	141500	707.5	1	23.36	24.00	1.159	-	-	-0.03	0.074	0.086
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	141500	707.5	1	23.51	24.00	1.119	-	-	0.07	0.001	0.001
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	141500	707.5	1	23.36	24.00	1.159	-	-	0	0.000	0.000
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	1	22.34	23.50	1.306	-	-	0.01	0.637	0.832
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	1	22.14	23.50	1.368	-	-	-0.01	0.628	0.859
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	141500	707.5	1	21.83	23.50	1.469	-	-	-0.06	0.600	0.881
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	1	22.34	23.50	1.306	-	-	-0.04	0.625	0.816
06	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	1	22.14	23.50	1.368	-	-	-0.04	0.645	**0.882**
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	141500	707.5	1	21.83	23.50	1.469	-	-	-0.09	0.595	0.874
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	141500	707.5	1	22.34	23.50	1.306	-	-	-0.17	0.410	0.536
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	141500	707.5	1	22.14	23.50	1.368	-	-	-0.1	0.420	0.574
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	141500	707.5	1	22.34	23.50	1.306	-	-	-0.17	0.460	0.601
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	141500	707.5	1	22.14	23.50	1.368	-	-	-0.04	0.425	0.581
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	158600	793	1	23.15	24.00	1.216	-	-	0	0.111	0.135
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	158600	793	1	23.06	24.00	1.242	-	-	-0.13	0.104	0.129

	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	158600	793	1	23.15	24.00	1.216	-	-	-0.01	0.068	0.083
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	158600	793	1	23.06	24.00	1.242	-	-	-0.09	0.064	0.079
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	158600	793	1	23.15	24.00	1.216	-	-	0.05	0.093	0.113
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	158600	793	1	23.06	24.00	1.242	-	-	0.02	0.076	0.094
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	158600	793	1	23.15	24.00	1.216	-	-	-0.13	0.066	0.080
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	158600	793	1	23.06	24.00	1.242	-	-	0.17	0.058	0.072
07	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	-0.01	0.727	**0.880**
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	0.06	0.685	0.829
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	158600	793	1	22.04	22.90	1.219	-	-	0	0.695	0.847
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	-0.04	0.672	0.814
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	-0.15	0.508	0.615
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	158600	793	1	22.04	22.90	1.219	-	-	0.11	0.557	0.679
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	-0.02	0.525	0.636
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	0.1	0.474	0.574
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	0.13	0.507	0.614
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	158600	793	1	22.07	22.90	1.211	-	-	-0.18	0.472	0.571
	835MHz																				
08	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	189	836.4	1	25.17	26.50	1.358	-	-	0.03	0.127	**0.173**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	189	836.4	1	25.17	26.50	1.358	-	-	0.06	0.067	0.091
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	1	25.17	26.50	1.358	-	-	0.02	0.120	0.163
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	189	836.4	1	25.17	26.50	1.358	-	-	0.12	0.070	0.095
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.03	24.00	1.250	-	-	-0.16	0.235	0.294
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.03	24.00	1.250	-	-	-0.12	0.112	0.140
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.03	24.00	1.250	-	-	0.07	0.173	0.216
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.03	24.00	1.250	-	-	-0.02	0.121	0.151
09	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	20.52	21.90	1.374	-	-	-0.05	0.640	**0.879**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4132	826.4	1	20.44	21.90	1.400	-	-	-0.16	0.448	0.627
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	1	20.39	21.90	1.416	-	-	-0.15	0.373	0.528
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	20.52	21.90	1.374	-	-	-0.06	0.578	0.794
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	20.52	21.90	1.374	-	-	-0.14	0.420	0.577
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	20.52	21.90	1.374	-	-	-0.19	0.424	0.583
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.94	24.00	1.276	-	-	-0.05	0.190	0.243
	LTE Band 5B	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 0	DSI 2	20476+ 20575	831.6+ 841.5	1	22.75	24.00	1.334	-	-	0.02	0.171	0.228
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.90	24.00	1.288	-	-	-0.13	0.154	0.198
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.94	24.00	1.276	-	-	0.08	0.094	0.120
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.90	24.00	1.288	-	-	0.16	0.078	0.100
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.94	24.00	1.276	-	-	0.01	0.142	0.181
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.90	24.00	1.288	-	-	-0.16	0.122	0.157
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.94	24.00	1.276	-	-	0.1	0.104	0.133
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.90	24.00	1.288	-	-	-0.04	0.083	0.107
10	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.21	21.50	1.069	-	-	0.05	0.798	**0.853**
	LTE Band 5B	10M	QPSK	1	49	-	Right Cheek	0mm	Ant 1	DSI 2	20476+ 20575	831.6+ 841.5	1	21.05	21.50	1.109	-	-	0.02	0.712	0.790
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.16	21.50	1.081	-	-	-0.01	0.607	0.656
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.13	21.50	1.089	-	-	0	0.556	0.605
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.21	21.50	1.069	-	-	-0.11	0.703	0.752
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.16	21.50	1.081	-	-	-0.06	0.551	0.596
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.21	21.50	1.069	-	-	-0.15	0.504	0.539
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	21.16	21.50	1.081	-	-	0.03	0.391	0.423
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.21	21.50	1.069	-	-	-0.13	0.494	0.528
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	21.16	21.50	1.081	-	-	0.16	0.385	0.416
	FR1 n26	20M	QPSK	1	1	-	Right Cheek	0mm	Ant 0	DSI 2	166300	831.5	1	23.35	24.00	1.161	-	-	-0.15	0.081	0.094
	FR1 n26	20M	QPSK	50	28	-	Right Cheek	0mm	Ant 0	DSI 2	166300	831.5	1	23.23	24.00	1.194	-	-	-0.02	0.096	0.115
	FR1 n26	20M	QPSK	1	1	-	Right Tilted	0mm	Ant 0	DSI 2	166300	831.5	1	23.35	24.00	1.161	-	-	-0.09	0.000	0.000
	FR1 n26	20M	QPSK	50	28	-	Right Tilted	0mm	Ant 0	DSI 2	166300	831.5	1	23.23	24.00	1.194	-	-	0.14	0.000	0.000
	FR1 n26	20M	QPSK	1	1	-	Left Cheek	0mm	Ant 0	DSI 2	166300	831.5	1	23.35	24.00	1.161	-	-	0.1	0.059	0.069

	FR1 n26	20M	QPSK	50	28	-	Left Cheek	0mm	Ant 0	DSI 2	166300	831.5	1	23.23	24.00	1.194	-	-	-0.09	0.072	0.086
	FR1 n26	20M	QPSK	1	1	-	Left Tilted	0mm	Ant 0	DSI 2	166300	831.5	1	23.35	24.00	1.161	-	-	0.07	0.001	0.001
	FR1 n26	20M	QPSK	50	28	-	Left Tilted	0mm	Ant 0	DSI 2	166300	831.5	1	23.23	24.00	1.194	-	-	-0.09	0.000	0.000
11	FR1 n26	20M	QPSK	1	1	-	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	1	21.36	23.00	1.459	-	-	0.03	0.608	**0.887**
	FR1 n26	20M	QPSK	50	28	-	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	1	21.17	23.00	1.524	-	-	-0.16	0.545	0.831
	FR1 n26	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 1	DSI 2	166300	831.5	1	21.14	23.00	1.535	-	-	-0.18	0.427	0.655
	FR1 n26	20M	QPSK	1	1	-	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	1	21.36	23.00	1.459	-	-	-0.07	0.576	0.840
	FR1 n26	20M	QPSK	50	28	-	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	1	21.17	23.00	1.524	-	-	0.11	0.534	0.814
	FR1 n26	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	166300	831.5	1	21.14	23.00	1.535	-	-	-0.08	0.408	0.626
	FR1 n26	20M	QPSK	1	1	-	Left Cheek	0mm	Ant 1	DSI 2	166300	831.5	1	21.36	23.00	1.459	-	-	-0.1	0.416	0.607
	FR1 n26	20M	QPSK	50	28	-	Left Cheek	0mm	Ant 1	DSI 2	166300	831.5	1	21.17	23.00	1.524	-	-	-0.01	0.380	0.579
	FR1 n26	20M	QPSK	1	1	-	Left Tilted	0mm	Ant 1	DSI 2	166300	831.5	1	21.36	23.00	1.459	-	-	-0.06	0.432	0.630
	FR1 n26	20M	QPSK	50	28	-	Left Tilted	0mm	Ant 1	DSI 2	166300	831.5	1	21.17	23.00	1.524	-	-	-0.17	0.377	0.575
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	23.19	24.00	1.205	-	-	-0.11	0.109	0.131
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	23.19	24.00	1.205	-	-	0.14	0.074	0.089
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	23.19	24.00	1.205	-	-	0.03	0.127	0.153
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	23.19	24.00	1.205	-	-	0.1	0.077	0.093
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1413	1732.6	1	16.92	17.70	1.197	-	-	0.16	0.685	0.820
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1312	1712.4	1	16.75	17.70	1.245	-	-	-0.06	0.600	0.747
12	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1513	1752.6	1	16.85	17.70	1.216	-	-	0.01	0.740	**0.900**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	1413	1732.6	1	16.92	17.70	1.197	-	-	0.02	0.661	0.791
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1413	1732.6	1	16.92	17.70	1.197	-	-	-0.16	0.458	0.548
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	1413	1732.6	1	16.92	17.70	1.197	-	-	0.05	0.538	0.644
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.92	24.00	1.282	-	-	-0.03	0.091	0.117
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.89	24.00	1.291	-	-	0.17	0.074	0.096
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.92	24.00	1.282	-	-	-0.15	0.067	0.086
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.89	24.00	1.291	-	-	0.16	0.054	0.070
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.92	24.00	1.282	-	-	0.05	0.114	0.146
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.89	24.00	1.291	-	-	-0.06	0.097	0.125
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.92	24.00	1.282	-	-	-0.13	0.069	0.088
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	22.89	24.00	1.291	-	-	-0.01	0.049	0.063
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.92	24.00	1.282	-	-	0.06	0.099	0.127
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	16.59	17.90	1.352	-	-	-0.11	0.564	0.763
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	16.56	17.90	1.361	-	-	0.19	0.456	0.621
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	16.59	17.90	1.352	-	-	-0.14	0.612	0.827
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132072	1720	1	16.46	17.90	1.393	-	-	-0.18	0.509	0.709
13	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	16.52	17.90	1.374	-	-	-0.03	0.643	**0.884**
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	16.56	17.90	1.361	-	-	-0.06	0.478	0.651
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	16.51	17.90	1.377	-	-	0.02	0.489	0.673
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	16.59	17.90	1.352	-	-	0.16	0.357	0.483
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	16.56	17.90	1.361	-	-	0.01	0.291	0.396
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	16.59	17.90	1.352	-	-	-0.04	0.440	0.595
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	16.56	17.90	1.361	-	-	0.13	0.366	0.498
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	132572	1770	1	16.51	17.90	1.377	-	-	0.01	0.612	0.843
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	340500	1702.5	1	23.58	24.00	1.102	-	-	0.12	0.078	0.086
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	340500	1702.5	1	23.47	24.00	1.130	-	-	0.07	0.073	0.082
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	340500	1702.5	1	23.58	24.00	1.102	-	-	0.08	0.048	0.053
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	340500	1702.5	1	23.47	24.00	1.130	-	-	0.19	0.047	0.053
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	340500	1702.5	1	23.58	24.00	1.102	-	-	-0.06	0.088	0.097
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	340500	1702.5	1	23.47	24.00	1.130	-	-	0	0.086	0.097
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	340500	1702.5	1	23.58	24.00	1.102	-	-	-0.03	0.047	0.052
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	340500	1702.5	1	23.47	24.00	1.130	-	-	0.07	0.044	0.050
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	340500	1702.5	1	17.62	18.80	1.312	-	-	-0.12	0.576	0.756
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	340500	1702.5	1	17.57	18.80	1.327	-	-	-0.03	0.583	0.774
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	340500	1702.5	1	17.62	18.80	1.312	-	-	0.12	0.617	0.810

14	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	340500	1702.5	1	17.57	18.80	1.327	-	-	0.01	0.662	**0.879**
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	340500	1702.5	1	17.55	18.80	1.334	-	-	0.02	0.641	0.855
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	340500	1702.5	1	17.62	18.80	1.312	-	-	-0.03	0.405	0.531
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	340500	1702.5	1	17.57	18.80	1.327	-	-	0	0.394	0.523
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	340500	1702.5	1	17.62	18.80	1.312	-	-	0.05	0.501	0.657
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	340500	1702.5	1	17.57	18.80	1.327	-	-	0	0.502	0.666
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	1	23.43	24.00	1.140	-	-	0.15	0.071	0.081
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	349000	1745	1	23.35	24.00	1.161	-	-	-0.05	0.069	0.080
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	1	23.43	24.00	1.140	-	-	-0.08	0.051	0.058
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	1	23.35	24.00	1.161	-	-	-0.08	0.050	0.058
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	1	23.43	24.00	1.140	-	-	-0.13	0.086	0.098
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	1	23.35	24.00	1.161	-	-	0.01	0.084	0.098
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	349000	1745	1	23.43	24.00	1.140	-	-	-0.11	0.052	0.059
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	349000	1745	1	23.35	24.00	1.161	-	-	0.03	0.051	0.059
	FR1 n66_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	349000	1745	1	23.59	24.00	1.099	-	-	0.01	0.065	0.071
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	16.25	17.60	1.365	-	-	-0.05	0.507	0.692
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	16.22	17.60	1.374	-	-	0.14	0.597	0.820
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	349000	1745	1	16.15	17.60	1.396	-	-	-0.01	0.578	0.807
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.25	17.60	1.365	-	-	-0.12	0.639	0.872
15	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.22	17.60	1.374	-	-	0.01	0.658	**0.904**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	2	16.22	17.60	1.374	-	-	-0.02	0.602	0.827
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.15	17.60	1.396	-	-	0.07	0.641	0.895
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	16.25	17.60	1.365	-	-	0.09	0.387	0.528
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	349000	1745	1	16.22	17.60	1.374	-	-	0.04	0.412	0.566
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.25	17.60	1.365	-	-	-0.13	0.490	0.669
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.22	17.60	1.374	-	-	0.12	0.491	0.675
	FR1 n66_Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	349000	1745	1	16.22	17.60	1.374	-	-	0.05	0.564	0.775
1900MHz																					
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Right Cheek	0mm	Ant 0	DSI 2	661	1880	1	25.41	26.50	1.285	-	-	0.17	0.000	0.000
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Right Tilted	0mm	Ant 0	DSI 2	661	1880	1	25.41	26.50	1.285	-	-	-0.16	0.000	0.000
16	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Left Cheek	0mm	Ant 0	DSI 2	661	1880	1	25.41	26.50	1.285	-	-	-0.03	0.055	**0.071**
	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Left Tilted	0mm	Ant 0	DSI 2	661	1880	1	25.41	26.50	1.285	-	-	0.11	0.001	0.001
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	9400	1880	1	23.11	24.00	1.227	-	-	-0.05	0.050	0.061
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	9400	1880	1	23.11	24.00	1.227	-	-	-0.01	0.000	0.000
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	9400	1880	1	23.11	24.00	1.227	-	-	-0.14	0.061	0.075
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	9400	1880	1	23.11	24.00	1.227	-	-	-0.15	0.001	0.001
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9400	1880	1	16.11	17.10	1.256	-	-	-0.12	0.569	0.715
17	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9400	1880	1	16.11	17.10	1.256	-	-	-0.15	0.625	**0.785**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	9400	1880	1	16.11	17.10	1.256	-	-	0.01	0.380	0.477
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	9400	1880	1	16.11	17.10	1.256	-	-	0.02	0.452	0.568
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.78	24.00	1.324	-	-	-0.11	0.055	0.073
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.77	24.00	1.327	-	-	-0.01	0.069	0.092
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.78	24.00	1.324	-	-	0.09	0.060	0.079
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.77	24.00	1.327	-	-	0.1	0.047	0.062
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.78	24.00	1.324	-	-	-0.04	0.107	0.142
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.77	24.00	1.327	-	-	0.15	0.080	0.106
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.78	24.00	1.324	-	-	0.09	0.055	0.073
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.77	24.00	1.327	-	-	-0.16	0.049	0.065
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	18900	1880	1	22.81	24.00	1.315	-	-	0.01	0.096	0.126
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	1	15.04	15.80	1.191	-	-	0.08	0.665	0.792
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	26340	1880	1	15.02	15.80	1.197	-	-	-0.08	0.545	0.652
18	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	1	15.04	15.80	1.191	-	-	-0.05	0.727	**0.866**
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26140	1860	1	14.98	15.80	1.208	-	-	0.1	0.680	0.821
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	26590	1905	1	15.00	15.80	1.202	-	-	0.12	0.704	0.846
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	1	15.02	15.80	1.197	-	-	0.08	0.576	0.689

	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	26340	1880	1	14.95	15.80	1.216	-	-	0.14	0.584	0.710
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	1	15.04	15.80	1.191	-	-	0.11	0.449	0.535
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	26340	1880	1	15.02	15.80	1.197	-	-	0.14	0.369	0.442
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	1	15.04	15.80	1.191	-	-	0.01	0.543	0.647
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	26340	1880	1	15.02	15.80	1.197	-	-	0.04	0.436	0.522
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	18900	1880	1	14.86	15.80	1.242	-	-	0.04	0.356	0.442
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	376500	1882.5	1	23.33	24.00	1.167	-	-	0.06	0.062	0.072
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 2	376500	1882.5	1	23.25	24.00	1.189	-	-	-0.09	0.062	0.074
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	376500	1882.5	1	23.33	24.00	1.167	-	-	-0.08	0.041	0.048
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 2	376500	1882.5	1	23.25	24.00	1.189	-	-	0.13	0.000	0.000
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376500	1882.5	1	23.33	24.00	1.167	-	-	0.12	0.072	0.084
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376500	1882.5	1	23.25	24.00	1.189	-	-	0.03	0.069	0.082
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	376500	1882.5	1	23.33	24.00	1.167	-	-	0.18	0.042	0.049
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 2	376500	1882.5	1	23.25	24.00	1.189	-	-	0.16	0.056	0.067
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 2	376500	1882.5	1	23.04	24.00	1.247	-	-	-0.1	0.059	0.074
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	1	15.52	16.50	1.253	-	-	-0.08	0.671	0.841
	FR1 n25_Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	1	15.46	16.50	1.271	-	-	-0.17	0.615	0.781
	FR1 n25_Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	376500	1882.5	1	15.42	16.50	1.282	-	-	-0.08	0.494	0.633
19	FR1 n25_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	1	15.52	16.50	1.253	-	-	0.06	0.709	**0.888**
	FR1 n25_Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	1	15.46	16.50	1.271	-	-	-0.04	0.644	0.818
	FR1 n25_Other PA	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	1	15.42	16.50	1.282	-	-	-0.08	0.532	0.682
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	1	15.52	16.50	1.253	-	-	0.17	0.451	0.565
	FR1 n25_Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	376500	1882.5	1	15.46	16.50	1.271	-	-	0.18	0.408	0.518
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376500	1882.5	1	15.52	16.50	1.253	-	-	-0.08	0.536	0.672
	FR1 n25_Other PA	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	376500	1882.5	1	15.46	16.50	1.271	-	-	-0.13	0.505	0.642
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	376500	1882.5	1	15.52	16.50	1.253	-	-	0.06	0.637	0.798
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	DSI 2	27710	2310	1	23.18	24.00	1.208	-	-	-0.03	0.150	0.181
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 9	DSI 2	27710	2310	1	23.16	24.00	1.213	-	-	-0.03	0.121	0.147
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	DSI 2	27710	2310	1	23.18	24.00	1.208	-	-	0.08	0.156	0.188
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 9	DSI 2	27710	2310	1	23.16	24.00	1.213	-	-	-0.07	0.132	0.160
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	27710	2310	1	23.18	24.00	1.208	-	-	0.05	0.267	0.322
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 9	DSI 2	27710	2310	1	23.16	24.00	1.213	-	-	-0.11	0.225	0.273
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	DSI 2	27710	2310	1	23.18	24.00	1.208	-	-	-0.12	0.100	0.121
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 9	DSI 2	27710	2310	1	23.16	24.00	1.213	-	-	0.03	0.084	0.102
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	1	12.98	14.10	1.294	-	-	0.08	0.494	0.639
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 2	27710	2310	1	12.96	14.10	1.300	-	-	0.01	0.411	0.534
20	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	1	12.98	14.10	1.294	-	-	0.09	0.662	**0.857**
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	1	12.96	14.10	1.300	-	-	0.03	0.547	0.711
	LTE Band 30	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	27710	2310	1	12.95	14.10	1.303	-	-	-0.08	0.530	0.691
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	27710	2310	1	12.98	14.10	1.294	-	-	-0.08	0.357	0.462
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 2	27710	2310	1	12.96	14.10	1.300	-	-	0.1	0.288	0.374
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	27710	2310	1	12.98	14.10	1.294	-	-	-0.18	0.413	0.535
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 2	27710	2310	1	12.96	14.10	1.300	-	-	0.1	0.351	0.456
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 9	DSI 2	462000	2310	1	23.45	24.00	1.135	-	-	0.12	0.111	0.126
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 9	DSI 2	462000	2310	1	23.40	24.00	1.148	-	-	0.08	0.122	0.140
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 9	DSI 2	462000	2310	1	23.45	24.00	1.135	-	-	-0.17	0.104	0.118
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 9	DSI 2	462000	2310	1	23.40	24.00	1.148	-	-	-0.03	0.121	0.139
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 9	DSI 2	462000	2310	1	23.45	24.00	1.135	-	-	0.14	0.184	0.209
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 9	DSI 2	462000	2310	1	23.40	24.00	1.148	-	-	0.11	0.198	0.227
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 9	DSI 2	462000	2310	1	23.45	24.00	1.135	-	-	-0.05	0.067	0.076
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 9	DSI 2	462000	2310	1	23.40	24.00	1.148	-	-	0.18	0.073	0.084
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	1	12.78	13.90	1.294	-	-	0.14	0.503	0.651
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	462000	2310	1	12.71	13.90	1.315	-	-	-0.17	0.505	0.664
21	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	1	12.78	13.90	1.294	-	-	0.01	0.680	**0.880**
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	2	12.78	13.90	1.294	-	-	0.02	0.621	0.804

	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	1	12.71	13.90	1.315	-	-	-0.05	0.650	0.855
	FR1 n30	10M	QPSK	50	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	462000	2310	1	12.66	13.90	1.330	-	-	0.01	0.530	0.705
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	462000	2310	1	12.78	13.90	1.294	-	-	0.1	0.357	0.462
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	462000	2310	1	12.71	13.90	1.315	-	-	-0.17	0.370	0.487
	FR1 n30	10M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	462000	2310	1	12.78	13.90	1.294	-	-	-0.01	0.502	0.650
	FR1 n30	10M	QPSK	25	14	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	462000	2310	1	12.71	13.90	1.315	-	-	-0.08	0.490	0.644
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	DSI 2	21100	2535	1	23.29	24.00	1.178	-	-	0.06	0.162	0.191
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	DSI 2	21100	2535	1	23.16	24.00	1.213	-	-	-0.09	0.139	0.169
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	DSI 2	21100	2535	1	23.29	24.00	1.178	-	-	-0.08	0.164	0.193
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	DSI 2	21100	2535	1	23.16	24.00	1.213	-	-	0.13	0.138	0.167
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	21100	2535	1	23.29	24.00	1.178	-	-	0.12	0.275	0.324
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	DSI 2	21100	2535	1	23.16	24.00	1.213	-	-	0.03	0.223	0.271
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	DSI 2	21100	2535	1	23.29	24.00	1.178	-	-	0.18	0.089	0.105
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	DSI 2	21100	2535	1	23.16	24.00	1.213	-	-	0.16	0.069	0.084
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	12.63	13.90	1.340	-	-	-0.1	0.407	0.545
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	12.56	13.90	1.361	-	-	0.07	0.340	0.463
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	12.63	13.90	1.340	-	-	0.18	0.614	0.823
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	20850	2510	1	12.50	13.90	1.380	-	-	-0.1	0.629	0.868
22	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	1	12.53	13.90	1.371	-	-	0.12	0.640	**0.877**
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	12.56	13.90	1.361	-	-	0.01	0.494	0.673
	LTE Band 7	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	12.53	13.90	1.371	-	-	-0.15	0.491	0.673
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	12.63	13.90	1.340	-	-	0.19	0.285	0.382
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	12.56	13.90	1.361	-	-	0.07	0.235	0.320
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	12.63	13.90	1.340	-	-	-0.18	0.356	0.477
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	12.56	13.90	1.361	-	-	0.03	0.300	0.408
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	DSI 2	40620	2593	1	23.12	24.00	1.225	62.9	1.006	-0.15	0.112	0.138
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	DSI 2	40620	2593	1	23.10	24.00	1.230	62.9	1.006	-0.15	0.086	0.106
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	DSI 2	40620	2593	1	23.12	24.00	1.225	62.9	1.006	0.11	0.114	0.140
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	DSI 2	40620	2593	1	23.10	24.00	1.230	62.9	1.006	-0.08	0.094	0.116
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	40620	2593	1	23.12	24.00	1.225	62.9	1.006	-0.17	0.179	0.221
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 9	DSI 2	40620+ 40818	2593+ 2612.8	1	22.87	24.00	1.297	62.9	1.006	0.06	0.152	0.198
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	DSI 2	40620	2593	1	23.10	24.00	1.230	62.9	1.006	-0.08	0.144	0.178
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	DSI 2	40620	2593	1	23.12	24.00	1.225	62.9	1.006	-0.04	0.060	0.074
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	DSI 2	40620	2593	1	23.10	24.00	1.230	62.9	1.006	-0.08	0.045	0.056
	LTE Band 41 PC2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	40620	2593	1	26.14	27.00	1.219	42.9	1.009	0.17	0.238	0.293
	LTE Band 41C PC2	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 9	DSI 2	40620+ 40818	2593+ 2612.8	1	25.98	27.00	1.265	42.9	1.009	0	0.192	0.245
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	16.33	16.80	1.114	62.9	1.006	0.18	0.357	0.400
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	16.27	16.80	1.130	62.9	1.006	-0.03	0.272	0.309
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	16.33	16.80	1.114	62.9	1.006	0.03	0.543	0.609
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	1	16.24	16.80	1.138	62.9	1.006	-0.02	0.691	0.791
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	16.23	16.80	1.140	62.9	1.006	-0.09	0.735	0.843
	LTE Band 41C	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 1	DSI 2	40185+ 40383	2549.5+ 2569.3	1	16.09	16.80	1.178	62.9	1.006	0.03	0.702	0.832
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	1	16.21	16.80	1.146	62.9	1.006	0.15	0.650	0.749
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	1	16.19	16.80	1.151	62.9	1.006	-0.09	0.593	0.687
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	16.27	16.80	1.130	62.9	1.006	0.11	0.417	0.474
	LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	16.27	16.80	1.130	62.9	1.006	-0.03	0.437	0.497
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	16.33	16.80	1.114	62.9	1.006	-0.15	0.225	0.252
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	16.27	16.80	1.130	62.9	1.006	0.02	0.173	0.197
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	16.33	16.80	1.114	62.9	1.006	-0.06	0.343	0.384
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	16.27	16.80	1.130	62.9	1.006	-0.17	0.272	0.309
	LTE Band 41 PC2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	17.56	18.40	1.213	42.9	1.009	0.03	0.723	0.885
	LTE Band 41C PC2	20M	QPSK	1	99	-	Right Tilted	0mm	Ant 1	DSI 2	40185+ 40383	2549.5+ 2569.3	1	17.51	18.40	1.227	42.9	1.009	0.02	0.702	0.869
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	40620	2593	1	21.48	23.00	1.419	62.9	1.006	0.08	0.425	0.607
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	39750	2506	1	21.36	23.00	1.459	62.9	1.006	0.03	0.302	0.443

	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	40185	2549.5	1	21.42	23.00	1.439	62.9	1.006	-0.08	0.304	0.440
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	41055	2636.5	1	21.44	23.00	1.432	62.9	1.006	0.05	0.584	0.841
	LTE Band 41C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 6	DSI 2	41055+41253	2636.5+2656.3	1	21.25	23.00	1.496	62.9	1.006	0.03	0.543	0.817
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	41490	2680	1	21.28	23.00	1.486	62.9	1.006	-0.08	0.320	0.478
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 2	40620	2593	1	20.53	22.00	1.403	62.9	1.006	0.1	0.222	0.313
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 6	DSI 2	40620	2593	1	20.47	22.00	1.422	62.9	1.006	-0.18	0.237	0.339
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 2	40620	2593	1	21.48	23.00	1.419	62.9	1.006	0.1	0.108	0.154
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 2	40620	2593	1	20.53	22.00	1.403	62.9	1.006	0.12	0.090	0.127
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 2	40620	2593	1	21.48	23.00	1.419	62.9	1.006	0.08	0.297	0.424
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 2	40620	2593	1	20.53	22.00	1.403	62.9	1.006	0.18	0.227	0.320
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 2	40620	2593	1	21.48	23.00	1.419	62.9	1.006	-0.17	0.048	0.069
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 2	40620	2593	1	20.53	22.00	1.403	62.9	1.006	0.17	0.039	0.055
	LTE Band 41 PC2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 2	41055	2636.5	1	23.01	24.70	1.476	42.9	1.009	-0.06	0.592	0.881
	LTE Band 41C PC2	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 6	DSI 2	41055+41253	2636.5+2656.3	1	22.89	24.70	1.517	42.9	1.009	0.02	0.554	0.848
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 3	DSI 2	40620	2593	1	17.00	18.00	1.259	62.9	1.006	-0.05	0.228	0.289
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 3	DSI 2	40620	2593	1	16.95	18.00	1.274	62.9	1.006	0.01	0.182	0.233
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 3	DSI 2	40620	2593	1	17.00	18.00	1.259	62.9	1.006	0.1	0.269	0.341
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 3	DSI 2	40620	2593	1	16.95	18.00	1.274	62.9	1.006	-0.17	0.243	0.311
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	40620	2593	1	17.00	18.00	1.259	62.9	1.006	0.04	0.604	0.765
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	39750	2506	1	16.86	18.00	1.300	62.9	1.006	-0.08	0.628	0.821
23	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	40185	2549.5	1	16.84	18.00	1.306	62.9	1.006	0.04	0.681	**0.895**
	LTE Band 41C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 3	DSI 2	40185+40383	2549.5+2569.3	1	16.75	18.00	1.334	62.9	1.006	0.01	0.642	0.861
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	41055	2636.5	1	16.91	18.00	1.285	62.9	1.006	0.05	0.510	0.659
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	41490	2680	1	16.95	18.00	1.274	62.9	1.006	0.06	0.496	0.635
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 3	DSI 2	40620	2593	1	16.95	18.00	1.274	62.9	1.006	-0.09	0.441	0.565
	LTE Band 41	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 3	DSI 2	40620	2593	1	16.98	18.00	1.265	62.9	1.006	0.16	0.424	0.539
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	40620	2593	1	17.00	18.00	1.259	62.9	1.006	-0.1	0.508	0.643
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	39750	2506	1	16.86	18.00	1.300	62.9	1.006	0.18	0.640	0.837
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	40185	2549.5	1	16.84	18.00	1.306	62.9	1.006	-0.1	0.638	0.838
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	41055	2636.5	1	16.91	18.00	1.285	62.9	1.006	0.01	0.457	0.591
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 3	DSI 2	41490	2680	1	16.95	18.00	1.274	62.9	1.006	-0.15	0.390	0.500
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 3	DSI 2	40620	2593	1	16.95	18.00	1.274	62.9	1.006	0.19	0.403	0.516
	LTE Band 41	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 3	DSI 2	40620	2593	1	16.98	18.00	1.265	62.9	1.006	0.11	0.409	0.520
	LTE Band 41 PC2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 3	DSI 2	40185	2549.5	1	18.44	19.60	1.306	42.9	1.009	0.03	0.608	0.801
	LTE Band 41C PC2	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 3	DSI 2	40185+40383	2549.5+2569.3	1	18.37	19.60	1.327	42.9	1.009	0.03	0.571	0.765
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 9	DSI 2	507000	2535	1	23.55	24.00	1.109	-	-	0.05	0.194	0.215
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 9	DSI 2	507000	2535	1	23.49	24.00	1.125	-	-	0.02	0.202	0.227
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 9	DSI 2	507000	2535	1	23.55	24.00	1.109	-	-	-0.13	0.212	0.235
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 9	DSI 2	507000	2535	1	23.49	24.00	1.125	-	-	0.17	0.227	0.255
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 9	DSI 2	507000	2535	1	23.55	24.00	1.109	-	-	0.06	0.312	0.346
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 9	DSI 2	507000	2535	1	23.49	24.00	1.125	-	-	0	0.319	0.359
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 9	DSI 2	507000	2535	1	23.55	24.00	1.109	-	-	-0.04	0.100	0.111
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 9	DSI 2	507000	2535	1	23.49	24.00	1.125	-	-	-0.15	0.119	0.134
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	13.81	14.40	1.146	-	-	0.08	0.522	0.598
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	13.63	14.40	1.194	-	-	0.01	0.499	0.596
24	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	13.81	14.40	1.146	-	-	0.01	0.767	**0.879**
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	13.63	14.40	1.194	-	-	-0.08	0.735	0.878
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	13.65	14.40	1.189	-	-	-0.08	0.583	0.693
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	1	13.81	14.40	1.146	-	-	0.1	0.357	0.409
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	1	13.63	14.40	1.194	-	-	-0.18	0.342	0.408
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	1	13.81	14.40	1.146	-	-	0.12	0.511	0.585
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	1	13.63	14.40	1.194	-	-	0.08	0.505	0.603
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	23.61	25.00	1.377	-	-	0.05	0.153	0.211
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	23.53	25.00	1.403	-	-	-0.03	0.160	0.224
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	518598	2592.99	1	23.61	25.00	1.377	-	-	0.14	0.168	0.231

	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	518598	2592.99	1	23.53	25.00	1.403	-	-	0.11	0.186	0.261
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	23.61	25.00	1.377	-	-	-0.05	0.254	0.350
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	23.53	25.00	1.403	-	-	0.06	0.256	0.359
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	518598	2592.99	1	23.61	25.00	1.377	-	-	-0.17	0.088	0.121
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	518598	2592.99	1	23.53	25.00	1.403	-	-	0.17	0.092	0.129
	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	26.50	28.00	1.413	50	1.000	-0.08	0.240	0.339
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	23.45	24.00	1.135	-	-	0.03	0.208	0.236
	FR1 n41_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	518598	2592.99	1	26.34	27.00	1.164	50	1.000	-0.01	0.190	0.221
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	1	14.99	16.50	1.416	-	-	0.01	0.419	0.593
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 1	DSI 2	518598	2592.99	1	14.97	16.50	1.422	-	-	0.1	0.376	0.535
25	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	14.99	16.50	1.416	-	-	0.05	0.635	**0.899**
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	14.97	16.50	1.422	-	-	0.04	0.574	0.816
	FR1 n41_Other PA	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	14.87	16.50	1.455	-	-	-0.01	0.563	0.819
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	1	14.99	16.50	1.416	-	-	-0.08	0.282	0.399
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 1	DSI 2	518598	2592.99	1	14.97	16.50	1.422	-	-	0.05	0.246	0.350
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	14.99	16.50	1.416	-	-	-0.09	0.424	0.600
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	14.97	16.50	1.422	-	-	-0.08	0.379	0.539
	FR1 n41_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	17.97	19.50	1.422	50	1.000	0.04	0.598	0.851
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	14.99	16.50	1.416	-	-	0.12	0.405	0.573
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 1	DSI 2	518598	2592.99	1	17.97	19.50	1.422	50	1.000	-0.17	0.379	0.539
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	21.42	22.70	1.343	-	-	0.02	0.653	0.877
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	21.53	22.70	1.309	-	-	-0.17	0.342	0.448
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	518598	2592.99	1	21.24	22.70	1.400	-	-	0.03	0.298	0.417
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	518598	2592.99	1	21.42	22.70	1.343	-	-	-0.08	0.163	0.219
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 2	518598	2592.99	1	21.53	22.70	1.309	-	-	-0.04	0.143	0.187
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	21.42	22.70	1.343	-	-	-0.08	0.640	0.859
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	21.53	22.70	1.309	-	-	0.17	0.419	0.549
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	21.24	22.70	1.400	-	-	0.02	0.368	0.515
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	518598	2592.99	1	21.42	22.70	1.343	-	-	0.18	0.091	0.122
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 2	518598	2592.99	1	21.53	22.70	1.309	-	-	-0.04	0.067	0.088
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	23.06	23.70	1.159	50	1.000	0.1	0.521	0.604
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	21.02	22.70	1.472	-	-	-0.08	0.585	0.861
	FR1 n41_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 2	518598	2592.99	1	22.63	23.00	1.089	50	1.000	0.01	0.399	0.434
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	13.18	14.10	1.236	-	-	0.03	0.293	0.362
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	13.15	14.10	1.245	-	-	0.18	0.220	0.274
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	518598	2592.99	1	13.18	14.10	1.236	-	-	-0.1	0.335	0.414
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 3	DSI 2	518598	2592.99	1	13.15	14.10	1.245	-	-	0.07	0.231	0.287
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	13.18	14.10	1.236	-	-	0.02	0.712	0.880
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	13.15	14.10	1.245	-	-	-0.1	0.540	0.672
	FR1 n41_Other PA	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	13.07	14.10	1.268	-	-	0.01	0.332	0.421
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	518598	2592.99	1	13.18	14.10	1.236	-	-	-0.15	0.681	0.842
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	518598	2592.99	1	13.15	14.10	1.245	-	-	0.19	0.473	0.589
	FR1 n41_Other PA	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 3	DSI 2	518598	2592.99	1	13.07	14.10	1.268	-	-	0.07	0.423	0.536
	FR1 n41_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	16.21	17.10	1.227	50	1.000	0.17	0.653	0.802
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	12.53	13.00	1.114	-	-	-0.18	0.450	0.501
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 3	DSI 2	518598	2592.99	1	15.57	16.00	1.104	50	1.000	-0.05	0.421	0.465
3500MHz																					
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	24.06	25.00	1.242	62.9	1.006	-0.13	0.486	0.607
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	42190	3460	1	23.88	25.00	1.294	62.9	1.006	-0.13	0.463	0.603
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	42990	3540	1	24.03	25.00	1.250	62.9	1.006	-0.05	0.582	0.732
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	23.17	24.00	1.211	62.9	1.006	0.06	0.405	0.493
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	23.10	24.00	1.230	62.9	1.006	0.08	0.343	0.425
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	42590	3500	1	24.06	25.00	1.242	62.9	1.006	-0.07	0.235	0.294
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	42590	3500	1	23.17	24.00	1.211	62.9	1.006	0.05	0.191	0.233
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	24.06	25.00	1.242	62.9	1.006	-0.11	0.386	0.482
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	42590	3500	1	23.17	24.00	1.211	62.9	1.006	-0.16	0.321	0.391

	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	42590	3500	1	24.06	25.00	1.242	62.9	1.006	0.15	0.119	0.149
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	42590	3500	1	23.17	24.00	1.211	62.9	1.006	-0.09	0.091	0.111
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 2	42590	3500	1	16.38	17.10	1.180	62.9	1.006	0.11	0.345	0.410
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 2	42590	3500	1	16.37	17.10	1.183	62.9	1.006	0.16	0.277	0.330
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 2	42590	3500	1	16.38	17.10	1.180	62.9	1.006	-0.15	0.449	0.533
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 2	42590	3500	1	16.37	17.10	1.183	62.9	1.006	0.16	0.358	0.426
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 2	42590	3500	1	16.38	17.10	1.180	62.9	1.006	0.16	0.538	0.639
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 2	42190	3460	1	16.35	17.10	1.189	62.9	1.006	-0.03	0.597	0.714
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 2	42990	3540	1	16.36	17.10	1.186	62.9	1.006	0.07	0.542	0.647
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 2	42590	3500	1	16.37	17.10	1.183	62.9	1.006	0	0.436	0.519
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 2	42590	3500	1	16.32	17.10	1.197	62.9	1.006	-0.06	0.445	0.536
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	42590	3500	1	16.38	17.10	1.180	62.9	1.006	-0.04	0.686	0.815
26	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	42190	3460	1	16.35	17.10	1.189	62.9	1.006	0.06	0.741	**0.886**
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	42190	3460	2	16.35	17.10	1.189	62.9	1.006	0.04	0.657	0.786
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	42990	3540	1	16.36	17.10	1.186	62.9	1.006	-0.09	0.673	0.803
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 2	42590	3500	1	16.37	17.10	1.183	62.9	1.006	-0.17	0.542	0.645
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 2	42190	3460	1	16.28	17.10	1.208	62.9	1.006	-0.1	0.669	0.813
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 2	42990	3540	1	16.15	17.10	1.245	62.9	1.006	0.18	0.546	0.684
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 7	DSI 2	42590	3500	1	16.32	17.10	1.197	62.9	1.006	-0.17	0.559	0.673
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	DSI 2	42590	3500	1	24.83	25.00	1.040	62.9	1.006	-0.04	0.149	0.156
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	DSI 2	42590	3500	1	23.93	24.00	1.016	62.9	1.006	-0.05	0.132	0.135
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	DSI 2	42590	3500	1	24.83	25.00	1.040	62.9	1.006	0	0.198	0.207
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	DSI 2	42590	3500	1	23.93	24.00	1.016	62.9	1.006	-0.13	0.171	0.175
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	42590	3500	1	24.83	25.00	1.040	62.9	1.006	-0.01	0.272	0.285
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	DSI 2	42590	3500	1	23.93	24.00	1.016	62.9	1.006	-0.09	0.219	0.224
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	DSI 2	42590	3500	1	24.83	25.00	1.040	62.9	1.006	0.05	0.115	0.120
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	DSI 2	42590	3500	1	23.93	24.00	1.016	62.9	1.006	0.02	0.090	0.092
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	DSI 2	42590	3500	1	15.95	17.30	1.365	62.9	1.006	0.17	0.134	0.184
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	DSI 2	42590	3500	1	15.94	17.30	1.368	62.9	1.006	0.06	0.128	0.176
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	DSI 2	42590	3500	1	15.95	17.30	1.365	62.9	1.006	0	0.153	0.210
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	DSI 2	42590	3500	1	15.94	17.30	1.368	62.9	1.006	0.11	0.122	0.168
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	42590	3500	1	15.95	17.30	1.365	62.9	1.006	0.13	0.625	0.858
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	42190	3460	1	15.92	17.30	1.374	62.9	1.006	-0.18	0.559	0.773
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	42990	3540	1	15.86	17.30	1.393	62.9	1.006	-0.08	0.628	0.880
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	42590	3500	1	15.94	17.30	1.368	62.9	1.006	-0.11	0.484	0.666
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	42190	3460	1	15.78	17.30	1.419	62.9	1.006	-0.16	0.450	0.642
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	42990	3540	1	15.85	17.30	1.396	62.9	1.006	-0.15	0.508	0.714
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 8	DSI 2	42590	3500	1	15.91	17.30	1.377	62.9	1.006	-0.06	0.498	0.690
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	42590	3500	1	15.95	17.30	1.365	62.9	1.006	-0.14	0.453	0.622
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	42190	3460	1	15.92	17.30	1.374	62.9	1.006	-0.19	0.415	0.574
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	42990	3540	1	15.86	17.30	1.393	62.9	1.006	0.01	0.484	0.678
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	DSI 2	42590	3500	1	15.94	17.30	1.368	62.9	1.006	0.06	0.371	0.510
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 8	DSI 2	42590	3500	1	15.91	17.30	1.377	62.9	1.006	-0.16	0.377	0.522
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 2	55830	3609	1	16.40	16.50	1.023	62.9	1.006	-0.12	0.316	0.325
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 2	55830	3609	1	16.37	16.50	1.030	62.9	1.006	-0.13	0.265	0.275
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 2	55830	3609	1	16.40	16.50	1.023	62.9	1.006	0.1	0.410	0.422
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 2	55830	3609	1	16.37	16.50	1.030	62.9	1.006	-0.11	0.328	0.340
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 2	55830	3609	1	16.40	16.50	1.023	62.9	1.006	0.16	0.437	0.450
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 2	55830	3609	1	16.37	16.50	1.030	62.9	1.006	0.14	0.357	0.370
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	55830	3609	1	16.40	16.50	1.023	62.9	1.006	-0.16	0.584	0.601
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	55340	3560	1	16.32	16.50	1.042	62.9	1.006	-0.18	0.496	0.520
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	56150	3641	1	16.33	16.50	1.040	62.9	1.006	-0.07	0.591	0.618
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	56640	3690	1	16.34	16.50	1.038	62.9	1.006	-0.09	0.642	0.670
	LTE Band 48C	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	56640+ 56442	3690+ 3670.2	1	16.22	16.50	1.067	62.9	1.006	0.02	0.579	0.621
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 2	55830	3609	1	16.37	16.50	1.030	62.9	1.006	0.11	0.448	0.464
	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 7	DSI 2	55830	3609	1	16.32	16.50	1.042	62.9	1.006	-0.09	0.465	0.488

	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 2	56640	3690	1	16.24	16.50	1.062	62.9	1.006	0.09	0.602	0.643
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	55830	3609	1	22.57	24.00	1.390	62.9	1.006	-0.06	0.491	0.687
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	55340	3560	1	22.53	24.00	1.403	62.9	1.006	-0.17	0.391	0.552
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	56150	3641	1	22.41	24.00	1.442	62.9	1.006	-0.01	0.469	0.680
27	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	56640	3690	1	22.46	24.00	1.426	62.9	1.006	-0.06	0.623	**0.893**
	LTE Band 48C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	56640+ 56442	3690+ 3670.2	1	22.27	24.00	1.489	62.9	1.006	0.03	0.575	0.862
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	55830	3609	1	22.55	24.00	1.396	62.9	1.006	-0.11	0.316	0.444
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 2	55830	3609	1	22.50	24.00	1.413	62.9	1.006	0.16	0.355	0.504
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	55830	3609	1	22.57	24.00	1.390	62.9	1.006	-0.06	0.204	0.285
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	55830	3609	1	22.55	24.00	1.396	62.9	1.006	0.02	0.165	0.232
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	55830	3609	1	22.57	24.00	1.390	62.9	1.006	-0.16	0.354	0.495
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	55830	3609	1	22.55	24.00	1.396	62.9	1.006	-0.15	0.287	0.403
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	55830	3609	1	22.57	24.00	1.390	62.9	1.006	-0.01	0.094	0.131
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	55830	3609	1	22.55	24.00	1.396	62.9	1.006	-0.11	0.075	0.105
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	56640	3690	1	22.46	24.00	1.426	62.9	1.006	0.02	0.615	0.882
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	DSI 2	55830	3609	1	15.54	16.50	1.247	62.9	1.006	0.19	0.151	0.189
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	DSI 2	55830	3609	1	15.41	16.50	1.285	62.9	1.006	0.02	0.119	0.154
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	DSI 2	55830	3609	1	15.54	16.50	1.247	62.9	1.006	0.12	0.154	0.193
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	DSI 2	55830	3609	1	15.41	16.50	1.285	62.9	1.006	-0.06	0.119	0.154
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	55830	3609	1	15.54	16.50	1.247	62.9	1.006	-0.03	0.604	0.758
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	55340	3560	1	15.37	16.50	1.297	62.9	1.006	0.02	0.548	0.715
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	56150	3641	1	15.36	16.50	1.300	62.9	1.006	0.12	0.672	0.879
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	56640	3690	1	15.48	16.50	1.265	62.9	1.006	-0.08	0.694	0.883
	LTE Band 48C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	56640+ 56442	3690+ 3670.2	1	15.29	16.50	1.321	62.9	1.006	0.03	0.644	0.856
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	55830	3609	1	15.41	16.50	1.285	62.9	1.006	0.02	0.485	0.627
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	55340	3560	1	15.20	16.50	1.349	62.9	1.006	-0.03	0.440	0.597
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	56150	3641	1	15.29	16.50	1.321	62.9	1.006	0	0.537	0.714
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	DSI 2	56640	3690	1	15.23	16.50	1.340	62.9	1.006	-0.1	0.563	0.759
	LTE Band 48	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 8	DSI 2	55830	3609	1	15.36	16.50	1.300	62.9	1.006	0.05	0.507	0.663
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	55830	3609	1	15.54	16.50	1.247	62.9	1.006	0	0.483	0.606
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	55340	3560	1	15.37	16.50	1.297	62.9	1.006	0.07	0.427	0.557
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	56150	3641	1	15.36	16.50	1.300	62.9	1.006	0.15	0.520	0.680
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	DSI 2	56640	3690	1	15.48	16.50	1.265	62.9	1.006	-0.05	0.533	0.678
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	DSI 2	55830	3609	1	15.41	16.50	1.285	62.9	1.006	-0.08	0.379	0.490
	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 8	DSI 2	55830	3609	1	15.36	16.50	1.300	62.9	1.006	-0.11	0.390	0.510
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	DSI 2	56640	3690	1	15.48	16.50	1.265	62.9	1.006	0.02	0.647	0.823
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	DSI 2	55830	3609	1	23.28	24.00	1.180	62.9	1.006	0.03	0.160	0.190
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	DSI 2	55830	3609	1	23.25	24.00	1.189	62.9	1.006	-0.05	0.124	0.148
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	DSI 2	55830	3609	1	23.28	24.00	1.180	62.9	1.006	0.14	0.222	0.264
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	DSI 2	55830	3609	1	23.25	24.00	1.189	62.9	1.006	-0.01	0.181	0.216
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	55830	3609	1	23.28	24.00	1.180	62.9	1.006	-0.12	0.310	0.368
	LTE Band 48C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 9	DSI 2	55830+ 56028	3609+ 3628.8	1	23.07	24.00	1.239	62.9	1.006	0.03	0.264	0.329
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	DSI 2	55830	3609	1	23.25	24.00	1.189	62.9	1.006	0.07	0.253	0.302
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	DSI 2	55830	3609	1	23.28	24.00	1.180	62.9	1.006	0.09	0.167	0.198
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	DSI 2	55830	3609	1	23.25	24.00	1.189	62.9	1.006	0.04	0.123	0.147
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	DSI 2	55830	3609	1	23.28	24.00	1.180	62.9	1.006	0.02	0.244	0.290
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	641666	3624.99	1	14.29	14.80	1.125	-	-	0.11	0.381	0.428
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	641666	3624.99	1	14.13	14.80	1.167	-	-	-0.13	0.456	0.532
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	641666	3624.99	1	14.29	14.80	1.125	-	-	-0.11	0.507	0.570
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	641666	3624.99	1	14.13	14.80	1.167	-	-	0.17	0.568	0.663
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	641666	3624.99	1	14.29	14.80	1.125	-	-	-0.17	0.582	0.655
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	641666	3624.99	1	14.13	14.80	1.167	-	-	0.11	0.702	0.819
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	638000	3570	1	14.08	14.80	1.180	-	-	0.05	0.652	0.770
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	645332	3679.98	1	14.05	14.80	1.189	-	-	-0.11	0.642	0.763
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	641666	3624.99	1	14.12	14.80	1.169	-	-	-0.05	0.521	0.609

	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	641666	3624.99	1	14.29	14.80	1.125	-	-	-0.01	0.708	0.796
28	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	641666	3624.99	1	14.13	14.80	1.167	-	-	-0.04	0.778	**0.908**
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	638000	3570	1	14.08	14.80	1.180	-	-	-0.12	0.711	0.839
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	645332	3679.98	1	14.05	14.80	1.189	-	-	0.03	0.704	0.837
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	641666	3624.99	1	14.12	14.80	1.169	-	-	-0.14	0.669	0.782
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	641666	3624.99	1	14.13	14.80	1.167	-	-	-0.15	0.755	0.881
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	638000	3570	1	14.08	14.80	1.180	-	-	-0.16	0.680	0.803
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	645332	3679.98	1	14.05	14.80	1.189	-	-	-0.02	0.698	0.830
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	641666	3624.99	1	21.13	22.10	1.250	-	-	-0.12	0.509	0.636
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	641666	3624.99	1	21.05	22.10	1.274	-	-	0.01	0.700	0.891
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	638000	3570	1	20.95	22.10	1.303	-	-	0.15	0.654	0.852
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	645332	3679.98	1	20.97	22.10	1.297	-	-	-0.09	0.611	0.793
	FR1 n48_Other PA	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	641666	3624.99	1	21.09	22.10	1.262	-	-	-0.17	0.709	0.895
	FR1 n48_Other PA	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	641666	3624.99	2	21.09	22.10	1.262	-	-	0.02	0.658	0.830
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	641666	3624.99	1	21.13	22.10	1.250	-	-	0.08	0.317	0.396
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	641666	3624.99	1	21.05	22.10	1.274	-	-	0.01	0.399	0.508
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	641666	3624.99	1	21.13	22.10	1.250	-	-	0.02	0.518	0.648
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	641666	3624.99	1	21.05	22.10	1.274	-	-	-0.11	0.608	0.774
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	641666	3624.99	1	21.13	22.10	1.250	-	-	0.09	0.141	0.176
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	641666	3624.99	1	21.05	22.10	1.274	-	-	0.1	0.183	0.233
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	641666	3624.99	1	21.09	22.10	1.262	-	-	-0.04	0.576	0.727
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	641666	3624.99	1	15.15	15.60	1.109	-	-	0.15	0.143	0.159
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	641666	3624.99	1	15.07	15.60	1.130	-	-	0.09	0.145	0.164
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	641666	3624.99	1	15.15	15.60	1.109	-	-	0.05	0.132	0.146
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	641666	3624.99	1	15.07	15.60	1.130	-	-	0.08	0.143	0.162
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	641666	3624.99	1	15.15	15.60	1.109	-	-	-0.03	0.574	0.637
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	641666	3624.99	1	15.07	15.60	1.130	-	-	-0.04	0.608	0.687
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	641666	3624.99	1	15.15	15.60	1.109	-	-	0.18	0.431	0.478
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	641666	3624.99	1	15.07	15.60	1.130	-	-	0.11	0.466	0.526
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	641666	3624.99	1	15.07	15.60	1.130	-	-	0.01	0.788	0.890
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	638000	3570	1	14.93	15.60	1.167	-	-	0.11	0.754	0.880
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	645332	3679.98	1	14.95	15.60	1.161	-	-	-0.05	0.721	0.837
	FR1 n48_Other PA	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	641666	3624.99	1	14.87	15.60	1.183	-	-	0.03	0.685	0.810
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	641666	3624.99	1	23.84	25.00	1.306	-	-	0.08	0.121	0.158
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	641666	3624.99	1	23.82	25.00	1.312	-	-	0.01	0.109	0.143
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	641666	3624.99	1	23.84	25.00	1.306	-	-	0.03	0.162	0.212
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	641666	3624.99	1	23.82	25.00	1.312	-	-	-0.08	0.151	0.198
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	1	23.84	25.00	1.306	-	-	0.03	0.256	0.334
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	1	23.82	25.00	1.312	-	-	-0.08	0.171	0.224
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	641666	3624.99	1	23.84	25.00	1.306	-	-	0.1	0.097	0.127
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	641666	3624.99	1	23.82	25.00	1.312	-	-	-0.18	0.096	0.126
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	641666	3624.99	1	24.08	25.00	1.236	-	-	0.1	0.207	0.256
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	1	14.18	14.80	1.153	-	-	0.12	0.453	0.523
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	1	14.17	14.80	1.156	-	-	0.08	0.245	0.283
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	656000	3840	1	14.18	14.80	1.153	-	-	-0.03	0.573	0.661
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	656000	3840	1	14.17	14.80	1.156	-	-	0.14	0.312	0.361
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	656000	3840	1	14.18	14.80	1.153	-	-	-0.05	0.585	0.675
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	656000	3840	1	14.17	14.80	1.156	-	-	0.18	0.327	0.378
29	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	14.18	14.80	1.153	-	-	0.01	0.767	**0.885**
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	2	14.18	14.80	1.153	-	-	0.04	0.699	0.806
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	14.17	14.80	1.156	-	-	-0.17	0.401	0.464
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	14.08	14.80	1.180	-	-	0.17	0.363	0.428
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	17.28	17.80	1.127	50	1.000	-0.17	0.732	0.825
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	14.18	14.80	1.153	-	-	-0.05	0.343	0.396
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	17.28	17.80	1.127	50	1.000	0.14	0.321	0.362
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	14.32	14.80	1.117	-	-	0.01	0.339	0.379

	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	14.20	14.80	1.148	-	-	0.1	0.404	0.464
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	14.32	14.80	1.117	-	-	0.04	0.418	0.467
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	14.20	14.80	1.148	-	-	-0.01	0.506	0.581
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	14.32	14.80	1.117	-	-	0.05	0.522	0.583
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 2	633334	3500.01	1	14.20	14.80	1.148	-	-	0.06	0.655	0.752
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	14.32	14.80	1.117	-	-	-0.19	0.612	0.684
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	14.20	14.80	1.148	-	-	-0.08	0.736	0.845
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	14.18	14.80	1.153	-	-	0.13	0.557	0.642
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	17.32	17.80	1.117	50	1.000	-0.19	0.698	0.780
	FR1 n77 Part 27Q_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	14.32	14.80	1.117	-	-	0.12	0.510	0.570
	FR1 n77 Part 27Q_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 2	633334	3500.01	1	17.32	17.80	1.117	50	1.000	0.12	0.489	0.546
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	1	17.81	19.00	1.315	-	-	-0.07	0.613	0.806
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	2	17.81	19.00	1.315	-	-	-0.02	0.555	0.730
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	1	17.79	19.00	1.321	-	-	0.03	0.574	0.758
	FR1 n77 Part 27O_Other PA	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	1	17.77	19.00	1.327	-	-	0.18	0.572	0.759
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	656000	3840	1	17.81	19.00	1.315	-	-	0.16	0.363	0.477
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	656000	3840	1	17.79	19.00	1.321	-	-	-0.1	0.391	0.517
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	656000	3840	1	17.81	19.00	1.315	-	-	0.18	0.535	0.704
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	656000	3840	1	17.79	19.00	1.321	-	-	-0.1	0.518	0.684
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	1	17.81	19.00	1.315	-	-	-0.15	0.175	0.230
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	1	17.79	19.00	1.321	-	-	0.19	0.185	0.244
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	1	20.86	22.00	1.300	50	1.000	0.18	0.596	0.775
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	1	19.39	21.00	1.449	-	-	-0.18	0.366	0.530
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	656000	3840	1	22.25	24.00	1.496	50	1.000	-0.05	0.334	0.500
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	18.22	19.00	1.197	-	-	0.03	0.235	0.281
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	18.19	19.00	1.205	-	-	0.09	0.253	0.305
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	18.22	19.00	1.197	-	-	-0.15	0.132	0.158
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	18.19	19.00	1.205	-	-	0.11	0.150	0.181
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	18.22	19.00	1.197	-	-	-0.08	0.191	0.229
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	18.19	19.00	1.205	-	-	-0.17	0.229	0.276
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	18.22	19.00	1.197	-	-	-0.04	0.065	0.078
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 2	633334	3500.01	1	18.19	19.00	1.205	-	-	-0.08	0.070	0.084
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	21.22	22.00	1.197	50	1.000	0.11	0.232	0.278
	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	19.17	21.00	1.524	-	-	0.17	0.179	0.273
	FR1 n77 Part 27Q_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 2	633334	3500.01	1	22.08	24.00	1.556	50	1.000	0.14	0.163	0.254
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	1	16.20	17.70	1.413	-	-	0.18	0.149	0.210
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	1	16.16	17.70	1.426	-	-	-0.04	0.070	0.100
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	1	16.20	17.70	1.413	-	-	-0.08	0.135	0.191
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	1	16.16	17.70	1.426	-	-	-0.13	0.069	0.098
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	16.20	17.70	1.413	-	-	0.02	0.579	0.818
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	16.16	17.70	1.426	-	-	-0.13	0.294	0.419
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	16.15	17.70	1.429	-	-	0.06	0.264	0.377
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	1	16.20	17.70	1.413	-	-	-0.03	0.413	0.583
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	1	16.16	17.70	1.426	-	-	-0.03	0.204	0.291
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	19.18	20.70	1.419	50	1.000	-0.07	0.536	0.761
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	15.11	16.00	1.227	-	-	0.05	0.275	0.338
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	18.07	19.00	1.239	50	1.000	-0.11	0.263	0.326
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	16.71	17.70	1.256	-	-	-0.12	0.125	0.157
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	16.68	17.70	1.265	-	-	0.03	0.142	0.180
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	16.71	17.70	1.256	-	-	-0.16	0.121	0.152
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	16.68	17.70	1.265	-	-	-0.02	0.135	0.171
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	16.71	17.70	1.256	-	-	0.15	0.474	0.595
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	16.68	17.70	1.265	-	-	0.04	0.534	0.675
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	16.71	17.70	1.256	-	-	0.11	0.348	0.437
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 8	DSI 2	633334	3500.01	1	16.68	17.70	1.265	-	-	-0.05	0.408	0.516
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	19.72	20.70	1.253	50	1.000	-0.03	0.511	0.640

	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	14.57	16.00	1.390	-	-	0.16	0.229	0.318
	FR1 n77 Part 27Q_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 8	DSI 2	633334	3500.01	1	17.57	19.00	1.390	50	1.000	-0.17	0.211	0.293
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	1	22.73	24.00	1.340	-	-	0.05	0.146	0.196
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	656000	3840	1	22.64	24.00	1.368	-	-	0.05	0.141	0.193
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	1	22.73	24.00	1.340	-	-	-0.03	0.185	0.248
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	656000	3840	1	22.64	24.00	1.368	-	-	-0.15	0.201	0.275
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	1	22.73	24.00	1.340	-	-	0.02	0.203	0.272
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	1	22.64	24.00	1.368	-	-	-0.04	0.210	0.287
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	1	22.73	24.00	1.340	-	-	0.07	0.128	0.171
	FR1 n77 Part 27O_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	656000	3840	1	22.64	24.00	1.368	-	-	0.16	0.146	0.200
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	1	25.58	27.00	1.387	50	1.000	0.08	0.194	0.269
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	1	21.20	22.00	1.202	-	-	0.13	0.100	0.120
	FR1 n77 Part 27O PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	656000	3840	1	21.20	22.00	1.202	50	1.000	0.12	0.054	0.065
	FR1 n77 Part 27Q_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	23.49	24.00	1.125	-	-	-0.18	0.130	0.146
	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	23.45	24.00	1.135	-	-	0.02	0.153	0.174
	FR1 n77 Part 27Q_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	633334	3500.01	1	23.49	24.00	1.125	-	-	0.16	0.134	0.151
	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 9	DSI 2	633334	3500.01	1	23.45	24.00	1.135	-	-	-0.03	0.192	0.218
	FR1 n77 Part 27Q_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	23.49	24.00	1.125	-	-	0.07	0.243	0.273
	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	23.45	24.00	1.135	-	-	0.03	0.290	0.329
	FR1 n77 Part 27Q_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	633334	3500.01	1	23.49	24.00	1.125	-	-	0.01	0.075	0.084
	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 9	DSI 2	633334	3500.01	1	23.45	24.00	1.135	-	-	-0.01	0.111	0.126
	FR1 n77 Part 27Q_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	26.15	27.00	1.216	50	1.000	0.1	0.246	0.299
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	22.80	24.00	1.318	-	-	-0.04	0.114	0.150
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 9	DSI 2	633334	3500.01	1	22.80	24.00	1.318	50	1.000	-0.18	0.053	0.070

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
						2450MHz											
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 2+3(2)	Standalone	1	2412	1	14.27	16.00	1.489	98.29	1.017	-0.18	0.461	0.698
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 2+3(2)	Standalone	1	2412	1	14.27	16.00	1.489	98.29	1.017	0.08	0.518	0.785
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+3(2)	Standalone	1	2412	1	14.27	16.00	1.489	98.29	1.017	0.01	0.911	1.380
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+3(3)	Standalone	6	2437	1	14.81	16.50	1.476	98.29	1.017	0.03	0.819	1.229
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+3(2)	Standalone	11	2462	1	14.27	16.00	1.489	98.29	1.017	-0.08	0.786	1.191
31	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(2)	Standalone	1	2412	1	14.27	16.00	1.489	98.29	1.017	-0.06	0.933	**1.413**
	WLAN2.4GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 2+3(2)	Standalone	6	2437	1	14.14	16.00	1.535	99.43	1.006	-0.06	0.760	1.173
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(2)	Standalone	1	2412	2	14.27	16.00	1.489	98.29	1.017	-0.03	0.864	1.309
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(3)	Standalone	6	2437	1	14.81	16.50	1.476	98.29	1.017	-0.08	0.833	1.250
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(2)	Standalone	11	2462	1	14.27	16.00	1.489	98.29	1.017	0.1	0.814	1.233
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 2+3(2)	Simultaneous	1	2412	1	8.80	10.50	1.479	98.29	1.017	-0.18	0.124	0.187
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 2+3(2)	Simultaneous	1	2412	1	8.80	10.50	1.479	98.29	1.017	0.08	0.140	0.211
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 2+3(2)	Simultaneous	1	2412	1	8.80	10.50	1.479	98.29	1.017	0.01	0.246	0.370
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 2+3(2)	Simultaneous	1	2412	1	8.80	10.50	1.479	98.29	1.017	-0.03	0.257	0.387
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	Standalone	0	2402	1	13.91	14.50	1.146	76.96	1.082	0.12	0.117	0.145
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	Standalone	0	2402	1	13.91	14.50	1.146	76.96	1.082	0.03	0.137	0.170
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Standalone	0	2402	1	13.91	14.50	1.146	76.96	1.082	0.18	0.169	0.209
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	Standalone	0	2402	1	13.91	14.50	1.146	76.96	1.082	0.07	0.148	0.183
32	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Standalone	39	2441	1	13.50	14.50	1.259	76.96	1.082	0.04	0.303	**0.413**
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Standalone	78	2480	1	11.70	12.50	1.202	76.96	1.082	0.16	0.154	0.200
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	Simultaneous	39	2441	1	13.19	13.50	1.074	76.96	1.082	0.08	0.095	0.110
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	Simultaneous	39	2441	1	13.19	13.50	1.074	76.96	1.082	0.01	0.111	0.129
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Simultaneous	39	2441	1	13.19	13.50	1.074	76.96	1.082	0.03	0.244	0.284
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	Simultaneous	39	2441	1	13.19	13.50	1.074	76.96	1.082	-0.08	0.203	0.236
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 2	Standalone	0	2402	1	15.21	16.00	1.199	76.9	1.083	0.05	0.085	0.111
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 2	Standalone	0	2402	1	15.21	16.00	1.199	76.9	1.083	0.06	0.016	0.021

	Bluetooth	1Mbps	Left Cheek	0mm	Ant 2	Standalone	0	2402	1	15.21	16.00	1.199	76.9	1.083	-0.08	0.125	0.162
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 2	Standalone	0	2402	1	15.21	16.00	1.199	76.9	1.083	-0.09	0.026	0.034
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 2	Standalone	39	2441	1	13.11	14.00	1.227	76.9	1.083	0.01	0.119	0.158
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 2	Standalone	78	2480	1	13.36	14.00	1.159	76.9	1.083	0.13	0.094	0.118
5000MHz																	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+8(8)	Standalone	58	5290	1	18.24	20.00	1.500	97.25	1.028	0.1	0.238	0.367
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+8(8)	Standalone	58	5290	1	18.24	20.00	1.500	97.25	1.028	0.12	0.216	0.333
33	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+8(8)	Standalone	58	5290	1	18.24	20.00	1.500	97.25	1.028	-0.08	0.760	**1.172**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+8(8)	Standalone	58	5290	1	18.24	20.00	1.500	97.25	1.028	0.08	0.386	0.595
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+8(8)	Simultaneous	58	5290	1	13.71	15.50	1.510	100	1.000	0.1	0.079	0.119
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+8(8)	Simultaneous	58	5290	1	13.71	15.50	1.510	100	1.000	0.12	0.072	0.109
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+8(8)	Simultaneous	58	5290	1	13.71	15.50	1.510	100	1.000	-0.02	0.256	0.387
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+8(8)	Simultaneous	58	5290	1	13.71	15.50	1.510	100	1.000	0.08	0.129	0.195
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+8(8)	Standalone	114	5570	1	17.85	19.50	1.462	100	1.000	-0.17	0.172	0.251
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+8(8)	Standalone	114	5570	1	17.85	19.50	1.462	100	1.000	-0.03	0.313	0.458
34	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+8(8)	Standalone	114	5570	1	17.85	19.50	1.462	100	1.000	-0.07	0.784	**1.146**
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+8(8)	Standalone	114	5570	1	17.85	19.50	1.462	100	1.000	0.14	0.508	0.743
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Cheek	0mm	Ant 5+8(8)	Simultaneous	114	5570	1	12.85	14.50	1.462	100	1.000	-0.17	0.054	0.079
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Right Tilted	0mm	Ant 5+8(8)	Simultaneous	114	5570	1	12.85	14.50	1.462	100	1.000	-0.03	0.090	0.132
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Cheek	0mm	Ant 5+8(8)	Simultaneous	114	5570	1	12.85	14.50	1.462	100	1.000	0.11	0.245	0.358
	WLAN5.5GHz	802.11ac-VHT160 MCS0	Left Tilted	0mm	Ant 5+8(8)	Simultaneous	114	5570	1	12.85	14.50	1.462	100	1.000	0.14	0.159	0.232
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+8(8)	Standalone	155	5775	1	14.86	16.50	1.459	97.25	1.028	-0.05	0.333	0.499
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+8(8)	Standalone	155	5775	1	14.86	16.50	1.459	97.25	1.028	0.18	0.327	0.490
35	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+8(8)	Standalone	155	5775	1	14.86	16.50	1.459	97.25	1.028	0.01	0.785	**1.177**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+8(8)	Standalone	155	5775	2	14.86	16.50	1.459	97.25	1.028	0.02	0.744	1.116
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+8(8)	Standalone	155	5775	1	14.86	16.50	1.459	97.25	1.028	0.14	0.522	0.783
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 5+8(8)	Simultaneous	155	5775	1	9.91	11.50	1.442	97.25	1.028	-0.05	0.109	0.162
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 5+8(8)	Simultaneous	155	5775	1	9.91	11.50	1.442	97.25	1.028	0.18	0.092	0.136
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 5+8(8)	Simultaneous	155	5775	1	9.91	11.50	1.442	97.25	1.028	-0.17	0.258	0.382
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 5+8(8)	Simultaneous	155	5775	1	9.91	11.50	1.442	97.25	1.028	0.14	0.162	0.240

16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																					
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	133322	683	1	22.98	24.00	1.265	-	-	0.08	0.395	0.500
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	133322	683	1	22.89	24.00	1.291	-	-	0.01	0.334	0.431
36	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	133322	683	1	22.98	24.00	1.265	-	-	0.03	0.597	**0.755**
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	133322	683	1	22.89	24.00	1.291	-	-	0.03	0.507	0.655
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	133322	683	1	22.98	24.00	1.265	-	-	-0.08	0.174	0.220
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI7	133322	683	1	22.89	24.00	1.291	-	-	0.1	0.151	0.195
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	133322	683	1	22.98	24.00	1.265	-	-	-0.18	0.247	0.312
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI7	133322	683	1	22.89	24.00	1.291	-	-	0.1	0.219	0.283
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	133322	683	1	22.98	24.00	1.265	-	-	0.12	0.453	0.573
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	133322	683	1	22.89	24.00	1.291	-	-	0.08	0.364	0.470
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	133322	683	1	21.97	23.00	1.268	-	-	-0.1	0.240	0.304
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	133322	683	1	21.75	23.00	1.334	-	-	0.1	0.206	0.275
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	133322	683	1	21.97	23.00	1.268	-	-	-0.03	0.476	0.603
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	133322	683	1	21.75	23.00	1.334	-	-	0.17	0.437	0.583
	LTE Band 71	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	133322	683	1	21.97	23.00	1.268	-	-	0.07	0.213	0.270
	LTE Band 71	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	133322	683	1	21.75	23.00	1.334	-	-	0.11	0.175	0.233
	LTE Band 71	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	133322	683	1	21.97	23.00	1.268	-	-	-0.18	0.129	0.164
	LTE Band 71	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI7	133322	683	1	21.75	23.00	1.334	-	-	0.11	0.111	0.148
	LTE Band 71	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	133322	683	1	21.97	23.00	1.268	-	-	-0.01	0.365	0.463
	LTE Band 71	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	133322	683	1	21.75	23.00	1.334	-	-	-0.11	0.286	0.381
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	23095	707.5	1	23.10	24.00	1.230	-	-	-0.17	0.417	0.513
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI7	23095	707.5	1	23.06	24.00	1.242	-	-	-0.03	0.410	0.509
37	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	23095	707.5	1	23.10	24.00	1.230	-	-	-0.02	0.673	**0.828**
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI7	23095	707.5	1	23.06	24.00	1.242	-	-	0.14	0.516	0.641
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	23095	707.5	1	23.00	24.00	1.259	-	-	0.11	0.496	0.624
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	23095	707.5	1	23.10	24.00	1.230	-	-	-0.05	0.188	0.231
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI7	23095	707.5	1	23.06	24.00	1.242	-	-	0.18	0.153	0.190
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	23095	707.5	1	23.10	24.00	1.230	-	-	0.14	0.285	0.351
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI7	23095	707.5	1	23.06	24.00	1.242	-	-	-0.17	0.234	0.291
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	23095	707.5	1	23.10	24.00	1.230	-	-	0.17	0.592	0.728
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI7	23095	707.5	1	23.00	24.00	1.259	-	-	-0.05	0.475	0.598
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	23095	707.5	1	23.05	23.80	1.189	-	-	0.04	0.236	0.280
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI7	23095	707.5	1	22.95	23.80	1.216	-	-	0.16	0.189	0.230
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	23095	707.5	1	23.05	23.80	1.189	-	-	0.09	0.431	0.512
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI7	23095	707.5	1	22.95	23.80	1.216	-	-	0.17	0.329	0.400
	LTE Band 12	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	23095	707.5	1	23.05	23.80	1.189	-	-	-0.18	0.149	0.177
	LTE Band 12	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI7	23095	707.5	1	22.95	23.80	1.216	-	-	0.06	0.120	0.146
	LTE Band 12	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	23095	707.5	1	23.05	23.80	1.189	-	-	0.18	0.093	0.111
	LTE Band 12	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI7	23095	707.5	1	22.95	23.80	1.216	-	-	-0.19	0.076	0.092
	LTE Band 12	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	23095	707.5	1	23.05	23.80	1.189	-	-	0.17	0.406	0.483
	LTE Band 12	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI7	23095	707.5	1	22.95	23.80	1.216	-	-	-0.16	0.335	0.407
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	23230	782	1	23.10	24.00	1.230	-	-	0.01	0.642	0.790
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI7	23230	782	1	23.08	24.00	1.236	-	-	0.1	0.555	0.686
38	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	23230	782	1	23.10	24.00	1.230	-	-	0.05	0.796	**0.979**
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI7	23230	782	1	23.08	24.00	1.236	-	-	-0.17	0.686	0.848
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	23230	782	1	23.06	24.00	1.242	-	-	0.04	0.676	0.839
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	23230	782	1	23.10	24.00	1.230	-	-	-0.01	0.167	0.205
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI7	23230	782	1	23.08	24.00	1.236	-	-	-0.08	0.138	0.171
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	23230	782	1	23.10	24.00	1.230	-	-	0.05	0.290	0.357
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI7	23230	782	1	23.08	24.00	1.236	-	-	0.06	0.243	0.300

	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	23230	782	1	23.10	24.00	1.230	-	-	-0.09	0.650	0.800
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI7	23230	782	1	23.08	24.00	1.236	-	-	-0.08	0.532	0.658
	LTE Band 13	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	23230	782	1	23.06	24.00	1.242	-	-	0.02	0.521	0.647
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	23230	782	1	21.05	22.60	1.429	-	-	0.03	0.226	0.323
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI7	23230	782	1	20.98	22.60	1.452	-	-	0.12	0.187	0.272
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	23230	782	1	21.05	22.60	1.429	-	-	0.01	0.431	0.616
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI7	23230	782	1	20.98	22.60	1.452	-	-	-0.17	0.280	0.407
	LTE Band 13	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	23230	782	1	21.05	22.60	1.429	-	-	0.02	0.124	0.177
	LTE Band 13	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI7	23230	782	1	20.98	22.60	1.452	-	-	-0.07	0.101	0.147
	LTE Band 13	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	23230	782	1	21.05	22.60	1.429	-	-	-0.03	0.102	0.146
	LTE Band 13	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI7	23230	782	1	20.98	22.60	1.452	-	-	0	0.078	0.113
	LTE Band 13	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	23230	782	1	21.05	22.60	1.429	-	-	0.09	0.273	0.390
	LTE Band 13	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI7	23230	782	1	20.98	22.60	1.452	-	-	-0.02	0.218	0.317
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	23330	793	1	22.93	24.00	1.279	-	-	0.13	0.689	0.881
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	DSI7	23330	793	1	22.91	24.00	1.285	-	-	0.12	0.533	0.685
	LTE Band 14	10M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	23330	793	1	22.89	24.00	1.291	-	-	0.18	0.547	0.706
39	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	23330	793	1	22.93	24.00	1.279	-	-	0.02	0.879	**1.125**
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	23330	793	2	22.93	24.00	1.279	-	-	0.03	0.842	1.077
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	DSI7	23330	793	1	22.91	24.00	1.285	-	-	0.03	0.703	0.904
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	23330	793	1	22.89	24.00	1.291	-	-	0.18	0.647	0.835
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	23330	793	1	22.93	24.00	1.279	-	-	0.16	0.186	0.238
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 0	DSI7	23330	793	1	22.91	24.00	1.285	-	-	-0.1	0.152	0.195
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	23330	793	1	22.93	24.00	1.279	-	-	0.07	0.354	0.453
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 0	DSI7	23330	793	1	22.91	24.00	1.285	-	-	0.18	0.269	0.346
	LTE Band 14	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	23330	793	1	22.93	24.00	1.279	-	-	-0.1	0.586	0.750
	LTE Band 14	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 0	DSI7	23330	793	1	22.91	24.00	1.285	-	-	0.01	0.482	0.620
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	23330	793	1	21.59	22.40	1.205	-	-	-0.07	0.327	0.394
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI7	23330	793	1	21.47	22.40	1.239	-	-	-0.16	0.266	0.330
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	23330	793	1	21.59	22.40	1.205	-	-	0.09	0.513	0.618
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI7	23330	793	1	21.47	22.40	1.239	-	-	0.03	0.441	0.546
	LTE Band 14	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	23330	793	1	21.59	22.40	1.205	-	-	0.03	0.155	0.187
	LTE Band 14	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI7	23330	793	1	21.47	22.40	1.239	-	-	0.06	0.128	0.159
	LTE Band 14	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	23330	793	1	21.59	22.40	1.205	-	-	0.12	0.134	0.161
	LTE Band 14	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI7	23330	793	1	21.47	22.40	1.239	-	-	-0.03	0.109	0.135
	LTE Band 14	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	23330	793	1	21.59	22.40	1.205	-	-	0.11	0.401	0.483
	LTE Band 14	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI7	23330	793	1	21.47	22.40	1.239	-	-	0.08	0.321	0.398
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	136100	680.5	1	23.84	24.00	1.038	-	-	-0.15	0.322	0.334
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	136100	680.5	1	23.74	24.00	1.062	-	-	0.19	0.301	0.320
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	136100	680.5	1	23.84	24.00	1.038	-	-	0.01	0.476	0.494
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	136100	680.5	1	23.74	24.00	1.062	-	-	0.07	0.455	0.483
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	136100	680.5	1	23.84	24.00	1.038	-	-	-0.18	0.118	0.122
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	136100	680.5	1	23.74	24.00	1.062	-	-	0.03	0.127	0.135
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	136100	680.5	1	23.84	24.00	1.038	-	-	-0.15	0.176	0.183
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	136100	680.5	1	23.74	24.00	1.062	-	-	-0.15	0.203	0.216
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	136100	680.5	1	23.84	24.00	1.038	-	-	0.11	0.446	0.463
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	136100	680.5	1	23.74	24.00	1.062	-	-	-0.08	0.385	0.409
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	136100	680.5	1	22.30	23.00	1.175	-	-	-0.12	0.229	0.269
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	136100	680.5	1	22.25	23.00	1.189	-	-	0.1	0.225	0.267
40	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	136100	680.5	1	22.30	23.00	1.175	-	-	-0.04	0.532	**0.625**
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	136100	680.5	1	22.25	23.00	1.189	-	-	-0.16	0.476	0.566
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	136100	680.5	1	22.30	23.00	1.175	-	-	0.17	0.191	0.224
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	136100	680.5	1	22.25	23.00	1.189	-	-	0.12	0.199	0.237
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	136100	680.5	1	22.30	23.00	1.175	-	-	-0.11	0.124	0.146
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	136100	680.5	1	22.25	23.00	1.189	-	-	-0.12	0.127	0.151
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	136100	680.5	1	22.30	23.00	1.175	-	-	-0.1	0.263	0.309
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	136100	680.5	1	22.25	23.00	1.189	-	-	0.16	0.233	0.277

	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	141500	707.5	1	23.51	24.00	1.119	-	-	-0.17	0.296	0.331
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	141500	707.5	1	23.36	24.00	1.159	-	-	-0.08	0.310	0.359
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	141500	707.5	1	23.51	24.00	1.119	-	-	0.01	0.436	0.488
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	141500	707.5	1	23.36	24.00	1.159	-	-	-0.04	0.404	0.468
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	141500	707.5	1	23.51	24.00	1.119	-	-	-0.08	0.105	0.118
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	141500	707.5	1	23.36	24.00	1.159	-	-	0.17	0.111	0.129
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	141500	707.5	1	23.51	24.00	1.119	-	-	0.18	0.161	0.180
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	141500	707.5	1	23.36	24.00	1.159	-	-	-0.04	0.181	0.210
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	141500	707.5	1	23.51	24.00	1.119	-	-	-0.08	0.302	0.338
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	141500	707.5	1	23.36	24.00	1.159	-	-	-0.13	0.333	0.386
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	141500	707.5	1	22.16	23.80	1.459	-	-	-0.09	0.177	0.258
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	141500	707.5	1	22.01	23.80	1.510	-	-	-0.09	0.222	0.335
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	141500	707.5	1	22.16	23.80	1.459	-	-	0.08	0.409	0.597
41	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	141500	707.5	1	22.01	23.80	1.510	-	-	0.08	0.423	**0.639**
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	141500	707.5	1	22.16	23.80	1.459	-	-	0.1	0.121	0.177
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	141500	707.5	1	22.01	23.80	1.510	-	-	0.1	0.123	0.186
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	141500	707.5	1	22.16	23.80	1.459	-	-	-0.07	0.083	0.121
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	141500	707.5	1	22.01	23.80	1.510	-	-	0.12	0.090	0.136
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	141500	707.5	1	22.16	23.80	1.459	-	-	0.08	0.394	0.575
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	141500	707.5	1	22.01	23.80	1.510	-	-	0.15	0.392	0.592
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	158600	793	1	23.15	24.00	1.216	-	-	-0.13	0.442	0.538
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	158600	793	1	23.06	24.00	1.242	-	-	0.06	0.428	0.531
42	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	158600	793	1	23.15	24.00	1.216	-	-	0.02	0.552	**0.671**
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	158600	793	1	23.06	24.00	1.242	-	-	-0.03	0.533	0.662
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	158600	793	1	23.15	24.00	1.216	-	-	-0.03	0.120	0.146
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	158600	793	1	23.06	24.00	1.242	-	-	0.08	0.119	0.148
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	158600	793	1	23.15	24.00	1.216	-	-	-0.07	0.217	0.264
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	158600	793	1	23.06	24.00	1.242	-	-	0.05	0.210	0.261
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	158600	793	1	23.15	24.00	1.216	-	-	-0.11	0.384	0.467
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	158600	793	1	23.06	24.00	1.242	-	-	-0.12	0.340	0.422
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	158600	793	1	21.54	22.70	1.306	-	-	-0.05	0.292	0.381
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	158600	793	1	21.43	22.70	1.340	-	-	0.02	0.301	0.403
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	158600	793	1	21.54	22.70	1.306	-	-	-0.08	0.478	0.624
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	158600	793	1	21.43	22.70	1.340	-	-	-0.05	0.411	0.551
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	158600	793	1	21.54	22.70	1.306	-	-	0.03	0.137	0.179
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	158600	793	1	21.43	22.70	1.340	-	-	0.05	0.140	0.188
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	158600	793	1	21.54	22.70	1.306	-	-	-0.14	0.124	0.162
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	158600	793	1	21.43	22.70	1.340	-	-	-0.17	0.127	0.170
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	158600	793	1	21.54	22.70	1.306	-	-	0.05	0.300	0.392
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	158600	793	1	21.43	22.70	1.340	-	-	0.13	0.311	0.417
835MHz																					
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI7	189	836.4	1	25.17	26.50	1.358	-	-	0.03	0.631	0.857
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI7	128	824.2	1	25.25	26.50	1.334	-	-	-0.16	0.313	0.417
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI7	251	848.8	1	25.45	26.50	1.274	-	-	-0.02	0.246	0.313
43	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI7	189	836.4	1	25.17	26.50	1.358	-	-	0.03	0.773	**1.050**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI7	128	824.2	1	25.25	26.50	1.334	-	-	0.15	0.393	0.524
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI7	251	848.8	1	25.45	26.50	1.274	-	-	-0.09	0.270	0.344
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI7	189	836.4	1	25.17	26.50	1.358	-	-	0.11	0.096	0.130
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI7	189	836.4	1	25.17	26.50	1.358	-	-	-0.05	0.170	0.231
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI7	189	836.4	1	25.17	26.50	1.358	-	-	-0.08	0.539	0.732
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	4182	836.4	1	23.03	24.00	1.250	-	-	0.05	0.796	0.995
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	4132	826.4	1	23.01	24.00	1.256	-	-	-0.03	0.810	1.017
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	4233	846.6	1	22.99	24.00	1.262	-	-	-0.15	0.711	0.897
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	4182	836.4	1	23.03	24.00	1.250	-	-	0.02	0.990	1.238
44	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	4132	826.4	1	23.01	24.00	1.256	-	-	0.05	1.000	**1.256**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	4132	826.4	2	23.01	24.00	1.256	-	-	0.03	0.958	1.203

	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	4233	846.6	1	22.99	24.00	1.262	-	-	0.07	0.858	1.083
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI7	4182	836.4	1	23.03	24.00	1.250	-	-	0.16	0.141	0.176
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI7	4182	836.4	1	23.03	24.00	1.250	-	-	0.13	0.251	0.314
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	4182	836.4	1	23.03	24.00	1.250	-	-	-0.18	0.768	0.960
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	4132	826.4	1	23.01	24.00	1.256	-	-	0.02	0.701	0.880
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	4233	846.6	1	22.99	24.00	1.262	-	-	0.16	0.770	0.972
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI7	4182	836.4	1	20.52	21.20	1.169	-	-	0.05	0.362	0.423
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI7	4182	836.4	1	20.52	21.20	1.169	-	-	0.03	0.529	0.619
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI7	4182	836.4	1	20.52	21.20	1.169	-	-	0.1	0.119	0.139
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI7	4182	836.4	1	20.52	21.20	1.169	-	-	-0.05	0.119	0.139
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI7	4182	836.4	1	20.52	21.20	1.169	-	-	-0.01	0.487	0.570
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	26865	831.5	1	22.94	24.00	1.276	-	-	-0.03	0.796	1.016
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	DSI7	26865	831.5	1	22.90	24.00	1.288	-	-	0.07	0.685	0.882
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 0	DSI7	26865	831.5	1	22.87	24.00	1.297	-	-	0	0.657	0.852
45	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	26865	831.5	1	22.94	24.00	1.276	-	-	0.05	0.970	**1.238**
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	DSI7	20476+20575	831.6+841.5	1	22.75	24.00	1.334	-	-	0.06	0.856	1.141
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	DSI7	26865	831.5	1	22.90	24.00	1.288	-	-	0.01	0.819	1.055
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	DSI7	26865	831.5	1	22.87	24.00	1.297	-	-	-0.01	0.797	1.034
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	26865	831.5	1	22.94	24.00	1.276	-	-	-0.06	0.148	0.189
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 0	DSI7	26865	831.5	1	22.90	24.00	1.288	-	-	-0.04	0.113	0.146
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	26865	831.5	1	22.94	24.00	1.276	-	-	-0.09	0.277	0.354
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 0	DSI7	26865	831.5	1	22.90	24.00	1.288	-	-	-0.17	0.233	0.300
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	26865	831.5	1	22.94	24.00	1.276	-	-	-0.1	0.858	1.095
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	5mm	Ant 0	DSI7	26865	831.5	1	22.90	24.00	1.288	-	-	0.18	0.701	0.903
	LTE Band 26	15M	QPSK	75	0	-	Bottom Side	5mm	Ant 0	DSI7	26865	831.5	1	22.87	24.00	1.297	-	-	0.12	0.698	0.905
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	26865	831.5	1	20.66	22.30	1.459	-	-	0.06	0.287	0.419
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	DSI7	26865	831.5	1	20.55	22.30	1.496	-	-	0.15	0.240	0.359
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	26865	831.5	1	20.66	22.30	1.459	-	-	0.11	0.431	0.629
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 1	DSI7	20476+20575	831.6+841.5	1	20.65	22.30	1.462	-	-	0.03	0.403	0.589
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	DSI7	26865	831.5	1	20.55	22.30	1.496	-	-	-0.06	0.386	0.578
	LTE Band 26	15M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	26865	831.5	1	20.66	22.30	1.459	-	-	-0.03	0.109	0.159
	LTE Band 26	15M	QPSK	36	0	-	Left Side	5mm	Ant 1	DSI7	26865	831.5	1	20.55	22.30	1.496	-	-	0.1	0.083	0.124
	LTE Band 26	15M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	26865	831.5	1	20.66	22.30	1.459	-	-	-0.05	0.087	0.127
	LTE Band 26	15M	QPSK	36	0	-	Right Side	5mm	Ant 1	DSI7	26865	831.5	1	20.55	22.30	1.496	-	-	-0.03	0.071	0.106
	LTE Band 26	15M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	26865	831.5	1	20.66	22.30	1.459	-	-	0.09	0.376	0.549
	LTE Band 26	15M	QPSK	36	0	-	Top Side	5mm	Ant 1	DSI7	26865	831.5	1	20.55	22.30	1.496	-	-	-0.02	0.297	0.444
	FR1 n26	20M	QPSK	1	1	-	Front	5mm	Ant 0	DSI7	166300	831.5	1	23.35	24.00	1.161	-	-	-0.17	0.555	0.645
	FR1 n26	20M	QPSK	50	28	-	Front	5mm	Ant 0	DSI7	166300	831.5	1	23.23	24.00	1.194	-	-	-0.04	0.541	0.646
46	FR1 n26	20M	QPSK	1	1	-	Back	5mm	Ant 0	DSI7	166300	831.5	1	23.35	24.00	1.161	-	-	0.12	0.694	**0.806**
	FR1 n26	20M	QPSK	50	28	-	Back	5mm	Ant 0	DSI7	166300	831.5	1	23.23	24.00	1.194	-	-	0	0.623	0.744
	FR1 n26	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI7	166300	831.5	1	23.24	24.00	1.191	-	-	-0.13	0.589	0.702
	FR1 n26	20M	QPSK	1	1	-	Left Side	5mm	Ant 0	DSI7	166300	831.5	1	23.35	24.00	1.161	-	-	-0.01	0.091	0.106
	FR1 n26	20M	QPSK	50	28	-	Left Side	5mm	Ant 0	DSI7	166300	831.5	1	23.23	24.00	1.194	-	-	-0.09	0.080	0.096
	FR1 n26	20M	QPSK	1	1	-	Right Side	5mm	Ant 0	DSI7	166300	831.5	1	23.35	24.00	1.161	-	-	0.05	0.171	0.199
	FR1 n26	20M	QPSK	50	28	-	Right Side	5mm	Ant 0	DSI7	166300	831.5	1	23.23	24.00	1.194	-	-	0.02	0.162	0.193
	FR1 n26	20M	QPSK	1	1	-	Bottom Side	5mm	Ant 0	DSI7	166300	831.5	1	23.35	24.00	1.161	-	-	-0.13	0.588	0.683
	FR1 n26	20M	QPSK	50	28	-	Bottom Side	5mm	Ant 0	DSI7	166300	831.5	1	23.23	24.00	1.194	-	-	0.17	0.477	0.570
	FR1 n26	20M	QPSK	1	1	-	Front	5mm	Ant 1	DSI7	166300	831.5	1	22.37	23.10	1.183	-	-	0	0.374	0.442
	FR1 n26	20M	QPSK	50	28	-	Front	5mm	Ant 1	DSI7	166300	831.5	1	22.34	23.10	1.191	-	-	-0.12	0.370	0.441
	FR1 n26	20M	QPSK	1	1	-	Back	5mm	Ant 1	DSI7	166300	831.5	1	22.37	23.10	1.183	-	-	-0.08	0.584	0.691
	FR1 n26	20M	QPSK	50	28	-	Back	5mm	Ant 1	DSI7	166300	831.5	1	22.26	23.10	1.213	-	-	0.02	0.521	0.632
	FR1 n26	20M	QPSK	1	1	-	Left Side	5mm	Ant 1	DSI7	166300	831.5	1	22.37	23.10	1.183	-	-	-0.16	0.127	0.150
	FR1 n26	20M	QPSK	50	28	-	Left Side	5mm	Ant 1	DSI7	166300	831.5	1	22.34	23.10	1.191	-	-	0.18	0.139	0.166
	FR1 n26	20M	QPSK	1	1	-	Right Side	5mm	Ant 1	DSI7	166300	831.5	1	22.37	23.10	1.183	-	-	-0.08	0.127	0.150
	FR1 n26	20M	QPSK	50	28	-	Right Side	5mm	Ant 1	DSI7	166300	831.5	1	22.34	23.10	1.191	-	-	0.04	0.118	0.141

	FR1 n26	20M	QPSK	1	1	-	Top Side	5mm	Ant 1	DSI7	166300	831.5	1	22.37	23.10	1.183	-	-	-0.07	0.437	0.517
	FR1 n26	20M	QPSK	50	28	-	Top Side	5mm	Ant 1	DSI7	166300	831.5	1	22.34	23.10	1.191	-	-	0.13	0.366	0.436
1750MHz																					
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	1413	1732.6	1	18.54	19.20	1.164	-	-	-0.04	0.869	1.012
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	1312	1712.4	1	18.51	19.20	1.172	-	-	-0.15	0.858	1.006
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	1513	1752.6	1	18.53	19.20	1.167	-	-	0.11	0.916	1.069
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	1413	1732.6	1	18.54	19.20	1.164	-	-	-0.02	0.933	1.086
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	1312	1712.4	1	18.51	19.20	1.172	-	-	0.1	0.972	1.139
47	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	1513	1752.6	1	18.53	19.20	1.167	-	-	0.04	1.100	**1.283**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI7	1413	1732.6	1	18.54	19.20	1.164	-	-	0.04	0.081	0.094
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI7	1413	1732.6	1	18.54	19.20	1.164	-	-	0.13	0.070	0.081
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	1413	1732.6	1	18.54	19.20	1.164	-	-	-0.18	0.913	1.063
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	1312	1712.4	1	18.51	19.20	1.172	-	-	-0.11	0.925	1.084
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	1513	1752.6	1	18.53	19.20	1.167	-	-	-0.16	0.817	0.953
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI7	1413	1732.6	1	15.29	16.90	1.449	-	-	-0.12	0.211	0.306
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI7	1413	1732.6	1	15.29	16.90	1.449	-	-	0	0.309	0.448
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI7	1413	1732.6	1	15.29	16.90	1.449	-	-	-0.18	0.048	0.070
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI7	1413	1732.6	1	15.29	16.90	1.449	-	-	-0.07	0.034	0.049
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI7	1413	1732.6	1	15.29	16.90	1.449	-	-	-0.14	0.418	0.606
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	132322	1745	1	17.60	19.00	1.380	-	-	0.01	0.578	0.798
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	132322	1745	1	17.52	19.00	1.406	-	-	-0.08	0.432	0.607
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	DSI7	132322	1745	1	17.32	19.00	1.472	-	-	0.1	0.447	0.658
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	132322	1745	1	17.60	19.00	1.380	-	-	0.04	0.641	0.885
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	132072	1720	1	17.51	19.00	1.409	-	-	0.12	0.597	0.841
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	132572	1770	1	17.36	19.00	1.459	-	-	0.08	0.615	0.897
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	132322	1745	1	17.52	19.00	1.406	-	-	-0.17	0.524	0.737
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI7	132322	1745	1	17.32	19.00	1.472	-	-	0.11	0.527	0.776
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	132322	1745	1	17.60	19.00	1.380	-	-	-0.05	0.048	0.066
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI7	132322	1745	1	17.52	19.00	1.406	-	-	0.18	0.040	0.056
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	132322	1745	1	17.60	19.00	1.380	-	-	0.14	0.043	0.059
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI7	132322	1745	1	17.52	19.00	1.406	-	-	-0.17	0.034	0.048
48	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	132322	1745	1	17.60	19.00	1.380	-	-	0.04	0.930	**1.284**
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	132072	1720	1	17.51	19.00	1.409	-	-	0.17	0.812	1.144
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	132572	1770	1	17.36	19.00	1.459	-	-	-0.05	0.829	1.209
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	132322	1745	1	17.52	19.00	1.406	-	-	0.01	0.673	0.946
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	132072	1720	1	17.50	19.00	1.413	-	-	0.1	0.683	0.965
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	132572	1770	1	17.29	19.00	1.483	-	-	-0.17	0.696	1.032
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI7	132322	1745	1	17.32	19.00	1.472	-	-	0.04	0.709	1.044
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	132322	1745	1	17.54	19.00	1.400	-	-	0.08	0.798	1.117
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	132322	1745	1	15.69	17.20	1.416	-	-	-0.07	0.275	0.389
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	132322	1745	1	15.55	17.20	1.462	-	-	0.1	0.229	0.335
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	132322	1745	1	15.69	17.20	1.416	-	-	-0.09	0.310	0.439
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	132322	1745	1	15.55	17.20	1.462	-	-	0.02	0.259	0.379
	LTE Band 66	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	132322	1745	1	15.69	17.20	1.416	-	-	0.18	0.061	0.086
	LTE Band 66	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	132322	1745	1	15.55	17.20	1.462	-	-	0.01	0.049	0.072
	LTE Band 66	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	132322	1745	1	15.69	17.20	1.416	-	-	0.03	0.037	0.052
	LTE Band 66	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI7	132322	1745	1	15.55	17.20	1.462	-	-	-0.01	0.030	0.044
	LTE Band 66	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	132322	1745	1	15.69	17.20	1.416	-	-	-0.18	0.392	0.555
	LTE Band 66	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	132322	1745	1	15.55	17.20	1.462	-	-	-0.14	0.340	0.497
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	132572	1770	1	15.43	17.20	1.503	-	-	-0.02	0.384	0.577
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	340500	1702.5	1	18.97	20.30	1.358	-	-	0.08	0.597	0.811
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	340500	1702.5	1	18.92	20.30	1.374	-	-	0.01	0.623	0.856
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	340500	1702.5	1	18.61	20.30	1.476	-	-	0.03	0.588	0.868
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	340500	1702.5	1	18.97	20.30	1.358	-	-	-0.08	0.721	0.979
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	340500	1702.5	1	18.92	20.30	1.374	-	-	-0.02	0.775	1.065
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	340500	1702.5	1	18.61	20.30	1.476	-	-	-0.08	0.731	1.079

	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.97	20.30	1.358	-	-	0.1	0.053	0.072
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.92	20.30	1.374	-	-	-0.18	0.055	0.076
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.97	20.30	1.358	-	-	0.1	0.051	0.069
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.92	20.30	1.374	-	-	0.12	0.049	0.067
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.97	20.30	1.358	-	-	0.08	0.907	1.232
49	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.92	20.30	1.374	-	-	0.07	0.940	**1.292**
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	340500	1702.5	1	18.61	20.30	1.476	-	-	-0.17	0.851	1.256
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	340500	1702.5	1	19.00	19.20	1.047	-	-	-0.03	0.328	0.343
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	340500	1702.5	1	18.92	19.20	1.067	-	-	-0.01	0.342	0.365
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	340500	1702.5	1	19.00	19.20	1.047	-	-	-0.1	0.386	0.404
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	340500	1702.5	1	18.92	19.20	1.067	-	-	0.12	0.395	0.421
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	340500	1702.5	1	19.00	19.20	1.047	-	-	0.01	0.071	0.074
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	340500	1702.5	1	18.92	19.20	1.067	-	-	0.05	0.071	0.076
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	340500	1702.5	1	19.00	19.20	1.047	-	-	-0.16	0.049	0.051
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	340500	1702.5	1	18.92	19.20	1.067	-	-	0.08	0.052	0.055
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	340500	1702.5	1	19.00	19.20	1.047	-	-	0.01	0.592	0.620
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	340500	1702.5	1	18.92	19.20	1.067	-	-	-0.17	0.554	0.591
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	349000	1745	1	16.67	17.60	1.239	-	-	0.08	0.443	0.549
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	349000	1745	1	16.54	17.60	1.276	-	-	0.01	0.529	0.675
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	349000	1745	1	16.67	17.60	1.239	-	-	-0.08	0.550	0.681
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	349000	1745	1	16.54	17.60	1.276	-	-	0.01	0.550	0.702
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	349000	1745	1	16.67	17.60	1.239	-	-	0.1	0.052	0.064
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	349000	1745	1	16.54	17.60	1.276	-	-	-0.18	0.058	0.074
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	349000	1745	1	16.67	17.60	1.239	-	-	0.1	0.051	0.063
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	349000	1745	1	16.54	17.60	1.276	-	-	0.12	0.048	0.061
50	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	349000	1745	1	16.67	17.60	1.239	-	-	0.08	1.030	**1.276**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	349000	1745	1	16.54	17.60	1.276	-	-	-0.17	0.911	1.163
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	349000	1745	1	16.40	17.60	1.318	-	-	-0.06	0.902	1.189
	FR1 n66_Main PA	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	349000	1745	1	16.40	17.60	1.318	-	-	0.02	0.654	0.862
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	349000	1745	1	16.26	17.50	1.330	-	-	-0.11	0.251	0.334
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	349000	1745	1	16.22	17.50	1.343	-	-	-0.03	0.277	0.372
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	349000	1745	1	16.26	17.50	1.330	-	-	-0.1	0.304	0.404
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	349000	1745	1	16.22	17.50	1.343	-	-	0.07	0.330	0.443
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	349000	1745	1	16.26	17.50	1.330	-	-	0.04	0.054	0.072
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	349000	1745	1	16.22	17.50	1.343	-	-	-0.16	0.059	0.079
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	349000	1745	1	16.26	17.50	1.330	-	-	-0.17	0.039	0.052
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	349000	1745	1	16.22	17.50	1.343	-	-	-0.13	0.042	0.056
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	349000	1745	1	16.26	17.50	1.330	-	-	-0.1	0.405	0.539
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	349000	1745	1	16.22	17.50	1.343	-	-	0.02	0.476	0.639
	FR1 n66_Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	349000	1745	1	16.22	17.50	1.343	-	-	0.05	0.421	0.565
	1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	DSI7	661	1880	1	17.23	18.50	1.340	-	-	0.08	0.385	0.516
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	DSI7	661	1880	1	17.23	18.50	1.340	-	-	-0.08	0.562	0.753
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Side	5mm	Ant 0	DSI7	661	1880	1	17.23	18.50	1.340	-	-	0.1	0.036	0.048
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Side	5mm	Ant 0	DSI7	661	1880	1	17.23	18.50	1.340	-	-	-0.18	0.027	0.036
51	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI7	661	1880	1	17.23	18.50	1.340	-	-	0.01	0.950	**1.273**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI7	512	1850.2	1	16.99	18.50	1.416	-	-	0.1	0.889	1.259
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	5mm	Ant 0	DSI7	810	1909.8	1	17.15	18.50	1.365	-	-	0.12	0.633	0.864
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.08	0.464	0.607
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.01	0.622	0.814
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	9262	1852.4	1	14.80	16.10	1.349	-	-	0.14	0.611	0.824
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	DSI7	9538	1907.6	1	14.75	16.10	1.365	-	-	0.11	0.489	0.667
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	-0.05	0.045	0.059
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 0	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.18	0.033	0.043
52	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.08	0.986	**1.291**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	9400	1880	2	14.93	16.10	1.309	-	-	0.04	0.975	1.276

	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	9262	1852.4	1	14.80	16.10	1.349	-	-	0.14	0.953	1.286
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI7	9538	1907.6	1	14.75	16.10	1.365	-	-	-0.17	0.785	1.071
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.07	0.317	0.415
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	-0.03	0.398	0.521
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.09	0.068	0.089
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Side	5mm	Ant 1	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	0.15	0.039	0.051
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI7	9400	1880	1	14.93	16.10	1.309	-	-	-0.11	0.468	0.613
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	DSI7	26340	1880	1	14.36	15.40	1.271	-	-	0.17	0.501	0.637
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	DSI7	26340	1880	1	14.29	15.40	1.291	-	-	0.1	0.411	0.531
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	26340	1880	1	14.36	15.40	1.271	-	-	0.05	0.685	0.870
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	26140	1860	1	14.25	15.40	1.303	-	-	-0.08	0.616	0.803
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI7	26590	1905	1	14.28	15.40	1.294	-	-	0.05	0.532	0.689
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	DSI7	26340	1880	1	14.29	15.40	1.291	-	-	0.06	0.527	0.680
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	DSI7	26340	1880	1	14.19	15.40	1.321	-	-	0.13	0.526	0.695
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 0	DSI7	26340	1880	1	14.36	15.40	1.271	-	-	0.12	0.041	0.052
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 0	DSI7	26340	1880	1	14.29	15.40	1.291	-	-	0.03	0.032	0.041
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 0	DSI7	26340	1880	1	14.36	15.40	1.271	-	-	0.18	0.030	0.038
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 0	DSI7	26340	1880	1	14.29	15.40	1.291	-	-	0.16	0.023	0.030
53	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	14.36	15.40	1.271	-	-	-0.04	1.010	**1.283**
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	26140	1860	1	14.25	15.40	1.303	-	-	-0.1	0.981	1.278
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	26590	1905	1	14.28	15.40	1.294	-	-	0.07	0.779	1.008
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	14.29	15.40	1.291	-	-	0.18	0.817	1.055
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	26140	1860	1	14.16	15.40	1.330	-	-	-0.1	0.859	1.143
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 0	DSI7	26590	1905	1	14.16	15.40	1.330	-	-	0.01	0.625	0.832
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 0	DSI7	26340	1880	1	14.19	15.40	1.321	-	-	-0.15	0.944	1.247
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 0	DSI7	18900	1880	1	14.37	15.40	1.268	-	-	0.07	0.587	0.744
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	26340	1880	1	14.58	15.90	1.355	-	-	-0.06	0.309	0.419
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	26340	1880	1	14.55	15.90	1.365	-	-	0.08	0.268	0.366
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	26340	1880	1	14.58	15.90	1.355	-	-	0.19	0.387	0.524
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	26340	1880	1	14.55	15.90	1.365	-	-	0.12	0.305	0.416
	LTE Band 25	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	26340	1880	1	14.58	15.90	1.355	-	-	0	0.061	0.083
	LTE Band 25	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	26340	1880	1	14.55	15.90	1.365	-	-	0	0.051	0.070
	LTE Band 25	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	26340	1880	1	14.58	15.90	1.355	-	-	-0.14	0.038	0.051
	LTE Band 25	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI7	26340	1880	1	14.55	15.90	1.365	-	-	0.18	0.031	0.042
	LTE Band 25	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	26340	1880	1	14.58	15.90	1.355	-	-	0.01	0.462	0.626
	LTE Band 25	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	26340	1880	1	14.55	15.90	1.365	-	-	0.03	0.392	0.535
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	18900	1880	1	15.50	15.90	1.096	-	-	0.16	0.295	0.323
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	376500	1882.5	1	15.42	16.90	1.406	-	-	0.19	0.434	0.610
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	DSI7	376500	1882.5	1	15.30	16.90	1.445	-	-	0.07	0.410	0.593
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	376500	1882.5	1	15.42	16.90	1.406	-	-	0.03	0.552	0.776
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	376500	1882.5	1	15.30	16.90	1.445	-	-	0.01	0.555	0.802
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	DSI7	376500	1882.5	1	15.07	16.90	1.524	-	-	-0.15	0.517	0.788
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.42	16.90	1.406	-	-	-0.15	0.036	0.051
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.30	16.90	1.445	-	-	0.11	0.034	0.049
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.42	16.90	1.406	-	-	-0.08	0.024	0.034
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.30	16.90	1.445	-	-	-0.17	0.021	0.030
54	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.42	16.90	1.406	-	-	0.08	0.910	**1.280**
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.30	16.90	1.445	-	-	-0.08	0.824	1.191
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.07	16.90	1.524	-	-	-0.04	0.776	1.183
	FR1 n25_Other PA	40M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 0	DSI7	376500	1882.5	1	15.42	16.90	1.406	-	-	0.06	0.877	1.233
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	376500	1882.5	1	15.26	16.80	1.426	-	-	-0.05	0.275	0.392
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	376500	1882.5	1	15.22	16.80	1.439	-	-	0.02	0.276	0.397
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	376500	1882.5	1	15.26	16.80	1.426	-	-	-0.03	0.372	0.530
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	376500	1882.5	1	15.22	16.80	1.439	-	-	0.04	0.386	0.555
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.26	16.80	1.426	-	-	-0.17	0.058	0.083
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.22	16.80	1.439	-	-	-0.15	0.057	0.082

	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.26	16.80	1.426	-	-	-0.13	0.036	0.051
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.22	16.80	1.439	-	-	-0.13	0.034	0.049
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.26	16.80	1.426	-	-	0.01	0.460	0.656
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.22	16.80	1.439	-	-	0.1	0.421	0.606
	FR1 n25_Main PA	40M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	376500	1882.5	1	15.26	16.80	1.426	-	-	0.03	0.425	0.606
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	27710	2310	1	21.00	22.20	1.318	-	-	-0.08	0.763	1.006
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 9	DSI7	27710	2310	1	20.96	22.20	1.330	-	-	0.17	0.636	0.846
	LTE Band 30	10M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	27710	2310	1	20.97	22.20	1.327	-	-	0.18	0.648	0.860
55	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	27710	2310	1	21.00	22.20	1.318	-	-	0.08	0.962	**1.268**
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 9	DSI7	27710	2310	1	20.96	22.20	1.330	-	-	-0.04	0.801	1.066
	LTE Band 30	10M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	27710	2310	1	20.97	22.20	1.327	-	-	-0.08	0.805	1.069
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	27710	2310	1	21.00	22.20	1.318	-	-	-0.13	0.445	0.587
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 9	DSI7	27710	2310	1	20.96	22.20	1.330	-	-	-0.13	0.369	0.491
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	27710	2310	1	21.00	22.20	1.318	-	-	-0.03	0.095	0.125
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 9	DSI7	27710	2310	1	20.96	22.20	1.330	-	-	-0.03	0.078	0.104
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	27710	2310	1	21.00	22.20	1.318	-	-	0.08	0.860	1.134
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	5mm	Ant 9	DSI7	27710	2310	1	20.96	22.20	1.330	-	-	-0.07	0.704	0.937
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	27710	2310	1	20.97	22.20	1.327	-	-	0.05	0.678	0.900
	LTE Band 30	10M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	0.04	0.285	0.316
	LTE Band 30	10M	QPSK	25	0	-	Front	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	0.02	0.248	0.275
	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	-0.14	0.386	0.428
	LTE Band 30	10M	QPSK	25	0	-	Back	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	-0.07	0.310	0.344
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	0.11	0.068	0.075
	LTE Band 30	10M	QPSK	25	0	-	Left Side	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	0.16	0.057	0.063
	LTE Band 30	10M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	-0.08	0.015	0.017
	LTE Band 30	10M	QPSK	25	0	-	Right Side	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	-0.1	0.012	0.013
	LTE Band 30	10M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	0.06	0.559	0.620
	LTE Band 30	10M	QPSK	25	0	-	Top Side	5mm	Ant 1	DSI7	27710	2310	1	12.35	12.80	1.109	-	-	0.17	0.467	0.518
	FR1 n30	10M	QPSK	1	1	-	Front	5mm	Ant 9	DSI7	462000	2310	1	21.45	22.50	1.274	-	-	-0.11	0.724	0.922
	FR1 n30	10M	QPSK	25	14	-	Front	5mm	Ant 9	DSI7	462000	2310	1	21.42	22.50	1.282	-	-	-0.12	0.714	0.916
	FR1 n30	10M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	462000	2310	1	21.37	22.50	1.297	-	-	0.03	0.724	0.939
	FR1 n30	10M	QPSK	1	1	-	Back	5mm	Ant 9	DSI7	462000	2310	1	21.45	22.50	1.274	-	-	-0.16	0.901	1.147
56	FR1 n30	10M	QPSK	25	14	-	Back	5mm	Ant 9	DSI7	462000	2310	1	21.42	22.50	1.282	-	-	0.06	0.998	**1.280**
	FR1 n30	10M	QPSK	25	14	-	Back	5mm	Ant 9	DSI7	462000	2310	2	21.42	22.50	1.282	-	-	0.04	0.921	1.181
	FR1 n30	10M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	462000	2310	1	21.37	22.50	1.297	-	-	0.15	0.848	1.100
	FR1 n30	10M	QPSK	1	1	-	Left Side	5mm	Ant 9	DSI7	462000	2310	1	21.45	22.50	1.274	-	-	-0.09	0.420	0.535
	FR1 n30	10M	QPSK	25	14	-	Left Side	5mm	Ant 9	DSI7	462000	2310	1	21.42	22.50	1.282	-	-	0.11	0.446	0.572
	FR1 n30	10M	QPSK	1	1	-	Right Side	5mm	Ant 9	DSI7	462000	2310	1	21.45	22.50	1.274	-	-	-0.08	0.087	0.111
	FR1 n30	10M	QPSK	25	14	-	Right Side	5mm	Ant 9	DSI7	462000	2310	1	21.42	22.50	1.282	-	-	0.16	0.091	0.117
	FR1 n30	10M	QPSK	1	1	-	Bottom Side	5mm	Ant 9	DSI7	462000	2310	1	21.45	22.50	1.274	-	-	0.05	0.687	0.875
	FR1 n30	10M	QPSK	25	14	-	Bottom Side	5mm	Ant 9	DSI7	462000	2310	1	21.42	22.50	1.282	-	-	0.05	0.730	0.936
	FR1 n30	10M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	462000	2310	1	21.37	22.50	1.297	-	-	-0.03	0.676	0.877
	FR1 n30	10M	QPSK	1	1	-	Front	5mm	Ant 1	DSI7	462000	2310	1	11.32	12.30	1.253	-	-	-0.04	0.176	0.221
	FR1 n30	10M	QPSK	25	14	-	Front	5mm	Ant 1	DSI7	462000	2310	1	11.20	12.30	1.288	-	-	-0.1	0.173	0.223
	FR1 n30	10M	QPSK	1	1	-	Back	5mm	Ant 1	DSI7	462000	2310	1	11.32	12.30	1.253	-	-	0.02	0.292	0.366
	FR1 n30	10M	QPSK	25	14	-	Back	5mm	Ant 1	DSI7	462000	2310	1	11.20	12.30	1.288	-	-	-0.01	0.281	0.362
	FR1 n30	10M	QPSK	1	1	-	Left Side	5mm	Ant 1	DSI7	462000	2310	1	11.32	12.30	1.253	-	-	0.1	0.055	0.069
	FR1 n30	10M	QPSK	25	14	-	Left Side	5mm	Ant 1	DSI7	462000	2310	1	11.20	12.30	1.288	-	-	-0.17	0.054	0.070
	FR1 n30	10M	QPSK	1	1	-	Right Side	5mm	Ant 1	DSI7	462000	2310	1	11.32	12.30	1.253	-	-	-0.13	0.009	0.011
	FR1 n30	10M	QPSK	25	14	-	Right Side	5mm	Ant 1	DSI7	462000	2310	1	11.20	12.30	1.288	-	-	-0.15	0.009	0.012
	FR1 n30	10M	QPSK	1	1	-	Top Side	5mm	Ant 1	DSI7	462000	2310	1	11.32	12.30	1.253	-	-	0.01	0.490	0.614
	FR1 n30	10M	QPSK	25	14	-	Top Side	5mm	Ant 1	DSI7	462000	2310	1	11.20	12.30	1.288	-	-	-0.17	0.442	0.569
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	21100	2535	1	19.39	20.50	1.291	-	-	-0.15	0.877	1.132
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	20850	2510	1	19.28	20.50	1.324	-	-	0.02	0.800	1.059
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	21350	2560	1	19.25	20.50	1.334	-	-	0.07	0.793	1.057

	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	21100	2535	1	19.18	20.50	1.355	-	-	0.16	0.736	0.997
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	20850	2510	1	19.02	20.50	1.406	-	-	0.13	0.666	0.936
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	21350	2560	1	19.08	20.50	1.387	-	-	-0.18	0.662	0.918
	LTE Band 7	20M	QPSK	100	0	-	Front	5mm	Ant 9	DSI7	21100	2535	1	19.12	20.50	1.374	-	-	0.02	0.754	1.036
57	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	21100	2535	1	19.39	20.50	1.291	-	-	-0.01	0.997	**1.287**
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	20850	2510	1	19.28	20.50	1.324	-	-	0.16	0.835	1.106
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	21350	2560	1	19.25	20.50	1.334	-	-	-0.03	0.828	1.104
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	21100	2535	1	19.18	20.50	1.355	-	-	0.07	0.828	1.122
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	20850	2510	1	19.02	20.50	1.406	-	-	0	0.708	0.995
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	21350	2560	1	19.08	20.50	1.387	-	-	0.01	0.698	0.968
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 9	DSI7	21100	2535	1	19.12	20.50	1.374	-	-	-0.01	0.846	1.162
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	21100	2535	1	19.39	20.50	1.291	-	-	-0.06	0.433	0.559
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	DSI7	21100	2535	1	19.18	20.50	1.355	-	-	-0.17	0.341	0.462
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	21100	2535	1	19.39	20.50	1.291	-	-	-0.04	0.091	0.118
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	21100	2535	1	19.18	20.50	1.355	-	-	-0.05	0.076	0.103
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	21100	2535	1	19.39	20.50	1.291	-	-	0	0.740	0.956
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	20850	2510	1	19.28	20.50	1.324	-	-	-0.13	0.705	0.934
	LTE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	21350	2560	1	19.25	20.50	1.334	-	-	-0.01	0.754	1.005
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	21100	2535	1	19.18	20.50	1.355	-	-	-0.09	0.606	0.821
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	20850	2510	1	19.02	20.50	1.406	-	-	0.05	0.585	0.823
	LTE Band 7	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	21350	2560	1	19.08	20.50	1.387	-	-	0.02	0.613	0.850
	LTE Band 7	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 9	DSI7	21100	2535	1	19.12	20.50	1.374	-	-	-0.13	0.676	0.929
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	21100	2535	1	9.68	11.30	1.452	-	-	-0.05	0.105	0.152
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	21100	2535	1	9.64	11.30	1.466	-	-	0.05	0.093	0.136
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	21100	2535	1	9.68	11.30	1.452	-	-	0.18	0.171	0.248
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	21100	2535	1	9.64	11.30	1.466	-	-	0.12	0.150	0.220
	LTE Band 7	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	21100	2535	1	9.68	11.30	1.452	-	-	0.14	0.023	0.033
	LTE Band 7	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	21100	2535	1	9.64	11.30	1.466	-	-	0.18	0.017	0.025
	LTE Band 7	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	21100	2535	1	9.68	11.30	1.452	-	-	-0.09	0.006	0.009
	LTE Band 7	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI7	21100	2535	1	9.64	11.30	1.466	-	-	-0.01	0.005	0.007
	LTE Band 7	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	9.68	11.30	1.452	-	-	0.02	0.412	0.598
	LTE Band 7	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	9.64	11.30	1.466	-	-	0	0.310	0.454
	LTE Band 7	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI7	21100	2535	1	9.59	11.30	1.483	-	-	-0.03	0.295	0.437
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	40620	2593	1	21.72	22.30	1.143	62.9	1.006	0.17	0.879	1.011
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	39790	2510	1	21.58	22.30	1.180	62.9	1.006	0.06	0.706	0.838
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	39750	2506	1	21.68	22.30	1.153	62.9	1.006	0	0.701	0.813
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	40185	2549.5	1	21.61	22.30	1.172	62.9	1.006	-0.04	0.775	0.914
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	41055	2636.5	1	21.67	22.30	1.156	62.9	1.006	-0.15	0.811	0.943
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	41490	2680	1	21.65	22.30	1.161	62.9	1.006	0.11	0.706	0.825
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	40620	2593	1	21.70	22.30	1.148	62.9	1.006	-0.02	0.665	0.768
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	39790	2510	1	21.67	22.30	1.156	62.9	1.006	0.1	0.602	0.700
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	39750	2506	1	21.61	22.30	1.172	62.9	1.006	0.04	0.591	0.697
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	40185	2549.5	1	21.64	22.30	1.164	62.9	1.006	0.13	0.654	0.766
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	41055	2636.5	1	21.68	22.30	1.153	62.9	1.006	-0.18	0.680	0.789
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	41490	2680	1	21.65	22.30	1.161	62.9	1.006	-0.11	0.570	0.666
	LTE Band 41	20M	QPSK	100	0	-	Front	5mm	Ant 9	DSI7	40620	2593	1	21.65	22.30	1.161	62.9	1.006	-0.16	0.670	0.783
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	40620	2593	1	21.72	22.30	1.143	62.9	1.006	-0.15	0.884	1.016
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	39790	2510	1	21.58	22.30	1.180	62.9	1.006	-0.06	0.827	0.982
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	39750	2506	1	21.68	22.30	1.153	62.9	1.006	-0.14	0.827	0.960
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	40185	2549.5	1	21.61	22.30	1.172	62.9	1.006	-0.19	0.942	1.111
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	41055	2636.5	1	21.67	22.30	1.156	62.9	1.006	-0.07	1.010	1.175
	LTE Band 41C	20M	QPSK	1	99	-	Back	5mm	Ant 9	DSI7	41055+41253	2636.5+2656.3	1	21.49	22.30	1.205	62.9	1.006	0.03	0.962	1.166
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	41490	2680	1	21.65	22.30	1.161	62.9	1.006	0.01	0.837	0.978
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	40620	2593	1	21.70	22.30	1.148	62.9	1.006	0.06	0.733	0.847
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	39790	2510	1	21.67	22.30	1.156	62.9	1.006	0.02	0.644	0.749
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	39750	2506	1	21.61	22.30	1.172	62.9	1.006	0.12	0.628	0.741

	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	40185	2549.5	1	21.64	22.30	1.164	62.9	1.006	-0.16	0.722	0.846
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	41055	2636.5	1	21.68	22.30	1.153	62.9	1.006	-0.12	0.754	0.875
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	41490	2680	1	21.65	22.30	1.161	62.9	1.006	0.07	0.628	0.734
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 9	DSI7	40620	2593	1	21.65	22.30	1.161	62.9	1.006	-0.02	0.712	0.832
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	40620	2593	1	21.72	22.30	1.143	62.9	1.006	-0.05	0.393	0.452
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	DSI7	40620	2593	1	21.70	22.30	1.148	62.9	1.006	0.1	0.327	0.378
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	40620	2593	1	21.72	22.30	1.143	62.9	1.006	0.03	0.106	0.122
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	40620	2593	1	21.70	22.30	1.148	62.9	1.006	-0.13	0.084	0.097
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	40620	2593	1	21.72	22.30	1.143	62.9	1.006	0.16	0.785	0.903
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	39790	2510	1	21.58	22.30	1.180	62.9	1.006	-0.15	0.591	0.702
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	39750	2506	1	21.68	22.30	1.153	62.9	1.006	-0.02	0.591	0.686
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	40185	2549.5	1	21.61	22.30	1.172	62.9	1.006	-0.09	0.638	0.752
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	41055	2636.5	1	21.67	22.30	1.156	62.9	1.006	0.14	0.748	0.870
	LTE Band 41	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	41490	2680	1	21.65	22.30	1.161	62.9	1.006	0.1	0.670	0.783
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	40620	2593	1	21.70	22.30	1.148	62.9	1.006	-0.09	0.628	0.725
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	39790	2510	1	21.67	22.30	1.156	62.9	1.006	0.07	0.529	0.615
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	39750	2506	1	21.61	22.30	1.172	62.9	1.006	-0.09	0.523	0.617
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	40185	2549.5	1	21.64	22.30	1.164	62.9	1.006	-0.16	0.565	0.662
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	41055	2636.5	1	21.68	22.30	1.153	62.9	1.006	-0.18	0.612	0.710
	LTE Band 41	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	41490	2680	1	21.65	22.30	1.161	62.9	1.006	-0.07	0.555	0.648
	LTE Band 41	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 9	DSI7	40620	2593	1	21.65	22.30	1.161	62.9	1.006	0.11	0.602	0.703
58	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	41055	2636.5	1	23.37	23.90	1.130	42.9	1.009	0.08	1.080	**1.231**
	LTE Band 41C PC2	20M	QPSK	1	99	-	Back	5mm	Ant 9	DSI7	41055+41253	2636.5+2656.3	1	23.13	23.90	1.194	42.9	1.009	0.01	0.955	1.151
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 1	DSI7	40620	2593	1	11.82	12.00	1.042	62.9	1.006	0.12	0.101	0.106
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 1	DSI7	40620	2593	1	11.68	12.00	1.076	62.9	1.006	-0.17	0.079	0.086
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 1	DSI7	40620	2593	1	11.82	12.00	1.042	62.9	1.006	0.14	0.227	0.238
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 1	DSI7	40620	2593	1	11.68	12.00	1.076	62.9	1.006	-0.18	0.180	0.195
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 1	DSI7	40620	2593	1	11.82	12.00	1.042	62.9	1.006	0	0.014	0.015
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 1	DSI7	40620	2593	1	11.68	12.00	1.076	62.9	1.006	0.05	0.011	0.012
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 1	DSI7	40620	2593	1	11.82	12.00	1.042	62.9	1.006	0.04	0.007	0.007
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 1	DSI7	40620	2593	1	11.68	12.00	1.076	62.9	1.006	-0.15	0.005	0.005
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	40620	2593	1	11.82	12.00	1.042	62.9	1.006	0.17	0.576	0.604
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	39790	2510	1	11.66	12.00	1.081	62.9	1.006	-0.04	0.414	0.450
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	39750	2506	1	11.71	12.00	1.069	62.9	1.006	-0.06	0.537	0.578
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	40185	2549.5	1	11.75	12.00	1.059	62.9	1.006	-0.17	0.547	0.583
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	41055	2636.5	1	11.76	12.00	1.057	62.9	1.006	0.09	0.588	0.625
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	5mm	Ant 1	DSI7	41055+41253	2636.5+2656.3	1	11.62	12.00	1.091	62.9	1.006	0.02	0.545	0.598
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	41490	2680	1	11.69	12.00	1.074	62.9	1.006	0.15	0.539	0.582
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 1	DSI7	40620	2593	1	11.68	12.00	1.076	62.9	1.006	0	0.400	0.433
	LTE Band 41	20M	QPSK	100	0	-	Top Side	5mm	Ant 1	DSI7	40620	2593	1	11.62	12.00	1.091	62.9	1.006	0.12	0.392	0.430
	LTE Band 41 PC2	20M	QPSK	1	0	-	Top Side	5mm	Ant 1	DSI7	41055	2636.5	1	13.38	13.60	1.052	42.9	1.009	0.05	0.547	0.581
	LTE Band 41C PC2	20M	QPSK	1	99	-	Top Side	5mm	Ant 1	DSI7	41055+41253	2636.5+2656.3	1	13.27	13.60	1.079	42.9	1.009	-0.15	0.529	0.576
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 6	DSI7	40620	2593	1	18.94	20.20	1.337	62.9	1.006	0.11	0.242	0.325
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 6	DSI7	40620	2593	1	18.90	20.20	1.349	62.9	1.006	-0.12	0.197	0.267
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 6	DSI7	40620	2593	1	18.94	20.20	1.337	62.9	1.006	0.18	0.340	0.457
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 6	DSI7	40620	2593	1	18.90	20.20	1.349	62.9	1.006	-0.18	0.276	0.375
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 6	DSI7	40620	2593	1	18.94	20.20	1.337	62.9	1.006	0.12	0.409	0.550
	LTE Band 41C	20M	QPSK	1	99	-	Left Side	5mm	Ant 6	DSI7	40620+40818	2593+2612.8	1	18.84	20.20	1.368	62.9	1.006	0.06	0.388	0.534
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 6	DSI7	40620	2593	1	18.90	20.20	1.349	62.9	1.006	-0.16	0.283	0.384
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 6	DSI7	40620	2593	1	18.94	20.20	1.337	62.9	1.006	-0.1	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 6	DSI7	40620	2593	1	18.90	20.20	1.349	62.9	1.006	-0.07	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 6	DSI7	40620	2593	1	18.94	20.20	1.337	62.9	1.006	-0.15	0.035	0.047
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 6	DSI7	40620	2593	1	18.90	20.20	1.349	62.9	1.006	-0.19	0.028	0.038
	LTE Band 41 PC2	20M	QPSK	1	0	-	Left Side	5mm	Ant 6	DSI7	40620	2593	1	20.59	21.80	1.321	42.9	1.009	0.07	0.433	0.577
	LTE Band 41C PC2	20M	QPSK	1	99	-	Left Side	5mm	Ant 6	DSI7	40620+40818	2593+2612.8	1	20.53	21.80	1.340	42.9	1.009	0.01	0.420	0.568

	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 3	DSI7	40620	2593	1	17.09	18.30	1.321	62.9	1.006	0.17	0.237	0.315
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 3	DSI7	40620	2593	1	17.06	18.30	1.330	62.9	1.006	-0.03	0.202	0.270
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	40620	2593	1	17.09	18.30	1.321	62.9	1.006	0.11	0.246	0.327
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 3	DSI7	40620	2593	1	17.06	18.30	1.330	62.9	1.006	0.01	0.185	0.248
	LTE Band 41	20M	QPSK	1	0	-	Left Side	5mm	Ant 3	DSI7	40620	2593	1	17.09	18.30	1.321	62.9	1.006	0.13	0.000	0.000
	LTE Band 41	20M	QPSK	50	0	-	Left Side	5mm	Ant 3	DSI7	40620	2593	1	17.06	18.30	1.330	62.9	1.006	-0.06	0.000	0.000
	LTE Band 41	20M	QPSK	1	0	-	Right Side	5mm	Ant 3	DSI7	40620	2593	1	17.09	18.30	1.321	62.9	1.006	-0.13	0.107	0.142
	LTE Band 41	20M	QPSK	50	0	-	Right Side	5mm	Ant 3	DSI7	40620	2593	1	17.06	18.30	1.330	62.9	1.006	0.15	0.085	0.114
	LTE Band 41	20M	QPSK	1	0	-	Top Side	5mm	Ant 3	DSI7	40620	2593	1	17.09	18.30	1.321	62.9	1.006	-0.06	0.439	0.584
	LTE Band 41C	20M	QPSK	1	99	-	Top Side	5mm	Ant 3	DSI7	40620+ 40818	2593+ 2612.8	1	17.05	18.30	1.334	62.9	1.006	-0.06	0.422	0.566
	LTE Band 41	20M	QPSK	50	0	-	Top Side	5mm	Ant 3	DSI7	40620	2593	1	17.06	18.30	1.330	62.9	1.006	-0.07	0.209	0.280
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	40620	2593	1	18.72	19.90	1.312	42.9	1.009	0.02	0.472	0.625
	LTE Band 41C PC2	20M	QPSK	1	99	-	Back	5mm	Ant 3	DSI7	40620+ 40818	2593+ 2612.8	1	18.62	19.90	1.343	42.9	1.009	0.02	0.455	0.616
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	39790	2510	1	18.54	19.90	1.368	42.9	1.009	0.08	0.421	0.581
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	39750	2506	1	18.47	19.90	1.390	42.9	1.009	0.01	0.411	0.576
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	40185	2549.5	1	18.59	19.90	1.352	42.9	1.009	0.03	0.398	0.543
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	41055	2636.5	1	18.51	19.90	1.377	42.9	1.009	-0.08	0.405	0.563
	LTE Band 41 PC2	20M	QPSK	1	0	-	Back	5mm	Ant 3	DSI7	41490	2680	1	18.49	19.90	1.384	42.9	1.009	-0.08	0.398	0.556
	LTE Band 41 PC2	20M	QPSK	100	0	-	Back	5mm	Ant 3	DSI7	40620	2593	1	18.64	19.90	1.337	42.9	1.009	0.1	0.374	0.504
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 9	DSI7	507000	2535	1	18.44	19.30	1.219	-	-	-0.08	0.788	0.961
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 9	DSI7	507000	2535	1	18.41	19.30	1.227	-	-	-0.1	0.794	0.975
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Front	5mm	Ant 9	DSI7	507000	2535	1	18.36	19.30	1.242	-	-	-0.01	0.968	1.202
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 9	DSI7	507000	2535	1	18.44	19.30	1.219	-	-	-0.09	0.800	0.975
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 9	DSI7	507000	2535	1	18.41	19.30	1.227	-	-	-0.06	0.811	0.995
59	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Back	5mm	Ant 9	DSI7	507000	2535	1	18.36	19.30	1.242	-	-	0.01	1.050	**1.304**
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Back	5mm	Ant 9	DSI7	507000	2535	2	18.36	19.30	1.242	-	-	0.02	0.963	1.196
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 9	DSI7	507000	2535	1	18.44	19.30	1.219	-	-	-0.17	0.386	0.471
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	5mm	Ant 9	DSI7	507000	2535	1	18.41	19.30	1.227	-	-	-0.01	0.389	0.477
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 9	DSI7	507000	2535	1	18.44	19.30	1.219	-	-	0.14	0.079	0.096
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	5mm	Ant 9	DSI7	507000	2535	1	18.41	19.30	1.227	-	-	0.03	0.073	0.090
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	5mm	Ant 9	DSI7	507000	2535	1	18.44	19.30	1.219	-	-	0.1	0.557	0.679
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Bottom Side	5mm	Ant 9	DSI7	507000	2535	1	18.41	19.30	1.227	-	-	0.16	0.650	0.798
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	507000	2535	1	10.45	10.90	1.109	-	-	0.13	0.172	0.191
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Front	5mm	Ant 1	DSI7	507000	2535	1	10.32	10.90	1.143	-	-	0.18	0.162	0.185
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	507000	2535	1	10.45	10.90	1.109	-	-	0.06	0.285	0.316
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Back	5mm	Ant 1	DSI7	507000	2535	1	10.32	10.90	1.143	-	-	0.17	0.272	0.311
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	507000	2535	1	10.45	10.90	1.109	-	-	-0.04	0.033	0.037
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Side	5mm	Ant 1	DSI7	507000	2535	1	10.32	10.90	1.143	-	-	0	0.028	0.032
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	507000	2535	1	10.45	10.90	1.109	-	-	0.15	0.009	0.010
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Side	5mm	Ant 1	DSI7	507000	2535	1	10.32	10.90	1.143	-	-	-0.13	0.011	0.013
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	507000	2535	1	10.45	10.90	1.109	-	-	0.03	0.550	0.610
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Top Side	5mm	Ant 1	DSI7	507000	2535	1	10.32	10.90	1.143	-	-	0.12	0.492	0.562
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	518598	2592.99	1	18.54	19.80	1.337	-	-	0.02	0.843	1.127
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	518598	2592.99	1	18.52	19.80	1.343	-	-	-0.16	0.866	1.163
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	518598	2592.99	1	18.47	19.80	1.358	-	-	0.05	0.832	1.130
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	518598	2592.99	1	18.54	19.80	1.337	-	-	-0.03	0.918	1.227
60	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	518598	2592.99	1	18.52	19.80	1.343	-	-	-0.16	0.966	**1.297**
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	518598	2592.99	1	18.47	19.80	1.358	-	-	0.17	0.852	1.157
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.54	19.80	1.337	-	-	-0.15	0.393	0.525
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.52	19.80	1.343	-	-	0.16	0.410	0.551
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.54	19.80	1.337	-	-	-0.06	0.091	0.122
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.52	19.80	1.343	-	-	-0.13	0.102	0.137
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.54	19.80	1.337	-	-	-0.01	0.730	0.976
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.52	19.80	1.343	-	-	-0.11	0.789	1.059
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	518598	2592.99	1	18.47	19.80	1.358	-	-	0.19	0.814	1.106

	FR1 n41 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	518598	2592.99	1	21.40	22.80	1.380	50	1.000	-0.05	0.904	1.248
	FR1 n41_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	518598	2592.99	1	18.52	19.80	1.343	-	-	-0.14	0.675	0.906
	FR1 n41_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	518598	2592.99	1	21.40	22.80	1.380	50	1.000	0.02	0.622	0.859
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 1	DSI7	518598	2592.99	1	10.12	10.90	1.197	-	-	0.04	0.097	0.116
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 1	DSI7	518598	2592.99	1	10.02	10.90	1.225	-	-	-0.12	0.087	0.107
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 1	DSI7	518598	2592.99	1	10.12	10.90	1.197	-	-	-0.09	0.214	0.256
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 1	DSI7	518598	2592.99	1	10.02	10.90	1.225	-	-	-0.18	0.200	0.245
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	10.12	10.90	1.197	-	-	0.04	0.018	0.022
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 1	DSI7	518598	2592.99	1	10.02	10.90	1.225	-	-	-0.05	0.013	0.016
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 1	DSI7	518598	2592.99	1	10.12	10.90	1.197	-	-	0.05	0.007	0.008
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 1	DSI7	518598	2592.99	1	10.02	10.90	1.225	-	-	0.09	0.006	0.007
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	10.12	10.90	1.197	-	-	0.04	0.521	0.624
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	10.02	10.90	1.225	-	-	0.08	0.469	0.574
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	12.96	13.90	1.242	50	1.000	-0.17	0.486	0.603
	FR1 n41_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	9.61	10.80	1.315	-	-	0.01	0.421	0.554
	FR1 n41_Main PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 1	DSI7	518598	2592.99	1	12.35	13.80	1.396	50	1.000	-0.1	0.398	0.556
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 6	DSI7	518598	2592.99	1	18.21	19.30	1.285	-	-	-0.13	0.290	0.373
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 6	DSI7	518598	2592.99	1	18.07	19.30	1.327	-	-	0.03	0.248	0.329
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 6	DSI7	518598	2592.99	1	18.21	19.30	1.285	-	-	-0.090	0.401	0.515
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 6	DSI7	518598	2592.99	1	18.07	19.30	1.327	-	-	0.14	0.335	0.445
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.21	19.30	1.285	-	-	0.09	0.476	0.612
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.07	19.30	1.327	-	-	-0.01	0.394	0.523
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.21	19.30	1.285	-	-	-0.1	0.000	0.000
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.07	19.30	1.327	-	-	-0.18	0.000	0.000
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.21	19.30	1.285	-	-	-0.09	0.041	0.053
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.07	19.30	1.327	-	-	0.17	0.036	0.048
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	21.11	22.30	1.315	50	1.000	-0.17	0.436	0.573
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	18.21	19.30	1.285	-	-	0.11	0.209	0.269
	FR1 n41_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 6	DSI7	518598	2592.99	1	21.11	22.30	1.315	50	1.000	0.13	0.196	0.258
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI7	518598	2592.99	1	12.89	14.00	1.291	-	-	0	0.269	0.347
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 3	DSI7	518598	2592.99	1	12.75	14.00	1.334	-	-	0.14	0.205	0.273
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI7	518598	2592.99	1	12.89	14.00	1.291	-	-	0.02	0.497	0.642
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI7	518598	2592.99	1	12.75	14.00	1.334	-	-	0.13	0.219	0.292
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI7	518598	2592.99	1	12.89	14.00	1.291	-	-	-0.16	0.020	0.026
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 3	DSI7	518598	2592.99	1	12.75	14.00	1.334	-	-	0.03	0.016	0.021
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI7	518598	2592.99	1	12.89	14.00	1.291	-	-	0	0.157	0.203
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 3	DSI7	518598	2592.99	1	12.75	14.00	1.334	-	-	0.11	0.092	0.123
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 3	DSI7	518598	2592.99	1	12.89	14.00	1.291	-	-	-0.03	0.428	0.553
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 3	DSI7	518598	2592.99	1	12.75	14.00	1.334	-	-	0.18	0.245	0.327
	FR1 n41 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI7	518598	2592.99	1	15.87	17.00	1.297	50	1.000	0.07	0.453	0.588
	FR1 n41_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI7	518598	2592.99	1	12.89	14.00	1.291	-	-	0.07	0.369	0.476
	FR1 n41_Main PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 3	DSI7	518598	2592.99	1	15.87	17.00	1.297	50	1.000	0.09	0.335	0.435
	3500MHz																				
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI7	42590	3500	1	15.35	16.70	1.365	62.9	1.006	0.14	0.060	0.082
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI7	42590	3500	1	15.27	16.70	1.390	62.9	1.006	-0.15	0.045	0.063
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Front	5mm	Ant 4	DSI7	42590	3500	1	15.23	16.70	1.403	62.9	1.006	0.04	0.052	0.073
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	42590	3500	1	15.35	16.70	1.365	62.9	1.006	-0.07	0.457	0.627
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	42190	3460	1	15.22	16.70	1.406	62.9	1.006	-0.15	0.396	0.560
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	42990	3540	1	15.30	16.70	1.380	62.9	1.006	0.07	0.387	0.537
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 4	DSI7	42590	3500	1	15.27	16.70	1.390	62.9	1.006	-0.07	0.375	0.524
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Back	5mm	Ant 4	DSI7	42590	3500	1	15.23	16.70	1.403	62.9	1.006	0.02	0.311	0.439
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI7	42590	3500	1	15.35	16.70	1.365	62.9	1.006	0.03	0.179	0.246
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI7	42590	3500	1	15.27	16.70	1.390	62.9	1.006	-0.11	0.143	0.200
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	DSI7	42590	3500	1	15.35	16.70	1.365	62.9	1.006	-0.07	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	DSI7	42590	3500	1	15.27	16.70	1.390	62.9	1.006	0.13	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI7	42590	3500	1	15.35	16.70	1.365	62.9	1.006	0.11	0.019	0.026

	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	DSI7	42590	3500	1	15.27	16.70	1.390	62.9	1.006	-0.04	0.015	0.021
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 7	DSI7	42590	3500	1	14.82	15.90	1.282	62.9	1.006	-0.12	0.129	0.166
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 7	DSI7	42590	3500	1	14.75	15.90	1.303	62.9	1.006	-0.04	0.104	0.136
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI7	42590	3500	1	14.82	15.90	1.282	62.9	1.006	0.07	0.286	0.369
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI7	42590	3500	1	14.75	15.90	1.303	62.9	1.006	-0.07	0.228	0.299
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 7	DSI7	42590	3500	1	14.82	15.90	1.282	62.9	1.006	0.07	0.011	0.014
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI7	42590	3500	1	14.75	15.90	1.303	62.9	1.006	0.19	0.009	0.012
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	5mm	Ant 7	DSI7	42590	3500	1	14.82	15.90	1.282	62.9	1.006	-0.05	0.040	0.052
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	5mm	Ant 7	DSI7	42590	3500	1	14.75	15.90	1.303	62.9	1.006	-0.05	0.033	0.043
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	42590	3500	1	14.82	15.90	1.282	62.9	1.006	-0.02	0.469	0.605
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	42190	3460	1	14.79	15.90	1.291	62.9	1.006	0.01	0.489	0.635
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	42990	3540	1	14.73	15.90	1.309	62.9	1.006	0.08	0.434	0.572
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 7	DSI7	42590	3500	1	14.75	15.90	1.303	62.9	1.006	-0.09	0.345	0.452
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Top Side	5mm	Ant 7	DSI7	42590	3500	1	14.73	15.90	1.309	62.9	1.006	-0.01	0.353	0.465
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	42590	3500	1	21.22	22.40	1.312	62.9	1.006	0.08	0.780	1.030
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	42190	3460	1	21.20	22.40	1.318	62.9	1.006	0.01	0.723	0.959
61	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	42990	3540	1	21.21	22.40	1.315	62.9	1.006	-0.09	0.976	**1.291**
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	42990	3540	2	21.21	22.40	1.315	62.9	1.006	0.01	0.941	1.245
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	42590	3500	1	21.19	22.40	1.321	62.9	1.006	0.03	0.645	0.857
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	42190	3460	1	21.12	22.40	1.343	62.9	1.006	-0.08	0.575	0.777
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	42990	3540	1	21.15	22.40	1.334	62.9	1.006	-0.08	0.789	1.058
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Front	5mm	Ant 9	DSI7	42590	3500	1	21.18	22.40	1.324	62.9	1.006	0.1	0.636	0.847
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	42590	3500	1	21.22	22.40	1.312	62.9	1.006	-0.18	0.530	0.700
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	42190	3460	1	21.20	22.40	1.318	62.9	1.006	0.1	0.434	0.576
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	42990	3540	1	21.21	22.40	1.315	62.9	1.006	0.12	0.520	0.688
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	42590	3500	1	21.19	22.40	1.321	62.9	1.006	0.08	0.422	0.561
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Back	5mm	Ant 9	DSI7	42590	3500	1	21.18	22.40	1.324	62.9	1.006	0.14	0.466	0.621
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	42590	3500	1	21.41	22.40	1.256	62.9	1.006	-0.03	0.272	0.344
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	DSI7	42590	3500	1	21.38	22.40	1.265	62.9	1.006	-0.03	0.204	0.260
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	42590	3500	1	21.41	22.40	1.256	62.9	1.006	-0.03	0.028	0.035
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	42590	3500	1	21.38	22.40	1.265	62.9	1.006	0	0.024	0.031
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	42590	3500	1	21.41	22.40	1.256	62.9	1.006	-0.1	**0.437**	0.552
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	42590	3500	1	21.38	22.40	1.265	62.9	1.006	0.07	0.363	0.462
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Front	5mm	Ant 8	DSI7	42590	3500	1	14.29	15.60	1.352	62.9	1.006	-0.02	0.163	0.222
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Front	5mm	Ant 8	DSI7	42590	3500	1	14.26	15.60	1.361	62.9	1.006	0.19	0.133	0.182
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI7	42590	3500	1	14.29	15.60	1.352	62.9	1.006	-0.11	0.446	0.607
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI7	42190	3460	1	14.21	15.60	1.377	62.9	1.006	-0.13	0.418	0.579
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI7	42990	3540	1	14.25	15.60	1.365	62.9	1.006	0.06	0.454	0.623
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Back	5mm	Ant 8	DSI7	42590	3500	1	14.26	15.60	1.361	62.9	1.006	0.18	0.303	0.415
	LTE Band 42 Part 27Q	20M	QPSK	100	0	-	Back	5mm	Ant 8	DSI7	42590	3500	1	14.19	15.60	1.384	62.9	1.006	-0.04	0.303	0.422
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Left Side	5mm	Ant 8	DSI7	42590	3500	1	14.29	15.60	1.352	62.9	1.006	-0.08	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Left Side	5mm	Ant 8	DSI7	42590	3500	1	14.26	15.60	1.361	62.9	1.006	0.1	0.000	0.000
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Right Side	5mm	Ant 8	DSI7	42590	3500	1	14.29	15.60	1.352	62.9	1.006	-0.1	0.338	0.460
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Right Side	5mm	Ant 8	DSI7	42590	3500	1	14.26	15.60	1.361	62.9	1.006	-0.12	0.293	0.401
	LTE Band 42 Part 27Q	20M	QPSK	1	0	-	Top Side	5mm	Ant 8	DSI7	42590	3500	1	14.29	15.60	1.352	62.9	1.006	-0.16	0.178	0.242
	LTE Band 42 Part 27Q	20M	QPSK	50	0	-	Top Side	5mm	Ant 8	DSI7	42590	3500	1	14.26	15.60	1.361	62.9	1.006	0.06	0.137	0.188
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 7	DSI7	55830	3609	1	12.95	14.70	1.496	62.9	1.006	0.08	0.133	0.200
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 7	DSI7	55830	3609	1	12.90	14.70	1.514	62.9	1.006	0.18	0.087	0.132
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 7	DSI7	55830	3609	1	12.95	14.70	1.496	62.9	1.006	-0.12	0.191	0.287
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 7	DSI7	55830	3609	1	12.90	14.70	1.514	62.9	1.006	-0.03	0.197	0.300
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 7	DSI7	55830	3609	1	12.95	14.70	1.496	62.9	1.006	-0.04	0.007	0.011
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 7	DSI7	55830	3609	1	12.90	14.70	1.514	62.9	1.006	-0.17	0.006	0.009
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 7	DSI7	55830	3609	1	12.95	14.70	1.496	62.9	1.006	-0.07	0.069	0.104
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 7	DSI7	55830	3609	1	12.90	14.70	1.514	62.9	1.006	-0.06	0.052	0.079
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	55830	3609	1	12.95	14.70	1.496	62.9	1.006	0.09	0.399	0.601
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	55340	3560	1	12.72	14.70	1.578	62.9	1.006	-0.13	0.304	0.482

	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	56150	3641	1	12.81	14.70	1.545	62.9	1.006	-0.17	0.386	0.600
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	56640	3690	1	12.94	14.70	1.500	62.9	1.006	0.09	0.419	0.632
	LTE Band 48C	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	56640+ 56442	3690+ 3670.2	1	12.85	14.70	1.531	62.9	1.006	0.03	0.375	0.578
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 7	DSI7	55830	3609	1	12.90	14.70	1.514	62.9	1.006	0.09	0.313	0.477
	LTE Band 48	20M	QPSK	100	0	-	Top Side	5mm	Ant 7	DSI7	55830	3609	1	12.82	14.70	1.542	62.9	1.006	0.06	0.307	0.476
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Top Side	5mm	Ant 7	DSI7	56640	3690	1	11.51	12.50	1.256	62.9	1.006	0.04	0.207	0.262
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 4	DSI7	55830	3609	1	15.42	16.40	1.253	62.9	1.006	0.13	0.080	0.101
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 4	DSI7	55830	3609	1	15.35	16.40	1.274	62.9	1.006	-0.03	0.074	0.095
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	55830	3609	1	15.42	16.40	1.253	62.9	1.006	0.12	0.482	0.608
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	55340	3560	1	15.37	16.40	1.268	62.9	1.006	0.19	0.410	0.523
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	56150	3641	1	15.31	16.40	1.285	62.9	1.006	-0.01	0.494	0.639
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 4	DSI7	56150+ 56348	3641+ 3660.8	1	15.16	16.40	1.330	62.9	1.006	0.03	0.422	0.565
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	56640	3690	1	15.20	16.40	1.318	62.9	1.006	-0.09	0.476	0.631
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 4	DSI7	55830	3609	1	15.35	16.40	1.274	62.9	1.006	-0.12	0.432	0.553
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 4	DSI7	55830	3609	1	15.35	16.40	1.274	62.9	1.006	0.07	0.338	0.433
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 4	DSI7	55830	3609	1	15.42	16.40	1.253	62.9	1.006	-0.15	0.252	0.318
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 4	DSI7	55830	3609	1	15.35	16.40	1.274	62.9	1.006	0.02	0.214	0.274
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 4	DSI7	55830	3609	1	15.42	16.40	1.253	62.9	1.006	-0.05	0.006	0.008
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 4	DSI7	55830	3609	1	15.35	16.40	1.274	62.9	1.006	-0.04	0.006	0.008
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 4	DSI7	55830	3609	1	15.42	16.40	1.253	62.9	1.006	0.13	0.029	0.037
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 4	DSI7	55830	3609	1	15.35	16.40	1.274	62.9	1.006	-0.03	0.023	0.029
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 4	DSI7	56150	3641	1	14.73	16.40	1.469	62.9	1.006	0.06	0.187	0.276
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 8	DSI7	55830	3609	1	13.38	14.00	1.153	62.9	1.006	0.11	0.139	0.161
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 8	DSI7	55830	3609	1	13.36	14.00	1.159	62.9	1.006	-0.04	0.113	0.132
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI7	55830	3609	1	13.38	14.00	1.153	62.9	1.006	0.05	0.398	0.462
	LTE Band 48C	20M	QPSK	1	99	-	Back	5mm	Ant 8	DSI7	55830+ 56028	3609+ 3628.8	1	13.32	14.00	1.169	62.9	1.006	0.03	0.346	0.407
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 8	DSI7	55830	3609	1	13.36	14.00	1.159	62.9	1.006	0.07	0.254	0.296
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 8	DSI7	55830	3609	1	13.38	14.00	1.153	62.9	1.006	-0.19	0.000	0.000
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 8	DSI7	55830	3609	1	13.36	14.00	1.159	62.9	1.006	-0.03	0.000	0.000
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 8	DSI7	55830	3609	1	13.38	14.00	1.153	62.9	1.006	-0.08	0.305	0.354
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 8	DSI7	55830	3609	1	13.36	14.00	1.159	62.9	1.006	-0.12	0.220	0.256
	LTE Band 48	20M	QPSK	1	0	-	Top Side	5mm	Ant 8	DSI7	55830	3609	1	13.38	14.00	1.153	62.9	1.006	-0.12	0.152	0.176
	LTE Band 48	20M	QPSK	50	0	-	Top Side	5mm	Ant 8	DSI7	55830	3609	1	13.36	14.00	1.159	62.9	1.006	0.09	0.140	0.163
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 8	DSI7	56640	3690	1	13.26	14.00	1.186	62.9	1.006	0.02	0.476	0.568
62	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	55830	3609	1	22.57	23.50	1.239	62.9	1.006	-0.07	1.040	**1.296**
	LTE Band 48C	20M	QPSK	1	99	-	Front	5mm	Ant 9	DSI7	55830+ 56028	3609+ 3628.8	1	22.38	23.50	1.294	62.9	1.006	0.06	0.915	1.191
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	55830	3609	2	22.57	23.50	1.239	62.9	1.006	0.02	0.975	1.215
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	55340	3560	1	22.49	23.50	1.262	62.9	1.006	-0.08	0.920	1.168
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	56150	3641	1	22.53	23.50	1.250	62.9	1.006	-0.13	0.958	1.205
	LTE Band 48	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	56640	3690	1	22.51	23.50	1.256	62.9	1.006	0.01	0.817	1.032
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	55830	3609	1	22.53	23.50	1.250	62.9	1.006	-0.11	0.894	1.124
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	55340	3560	1	22.46	23.50	1.271	62.9	1.006	0.03	0.756	0.966
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	56150	3641	1	22.41	23.50	1.285	62.9	1.006	-0.05	0.765	0.989
	LTE Band 48	20M	QPSK	50	0	-	Front	5mm	Ant 9	DSI7	56640	3690	1	22.40	23.50	1.288	62.9	1.006	0.14	0.640	0.829
	LTE Band 48	20M	QPSK	100	0	-	Front	5mm	Ant 9	DSI7	55830	3609	1	22.47	23.50	1.268	62.9	1.006	-0.01	0.821	1.047
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	55830	3609	1	22.57	23.50	1.239	62.9	1.006	-0.12	0.828	1.032
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	55340	3560	1	22.49	23.50	1.262	62.9	1.006	0.07	0.976	1.239
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	56150	3641	1	22.53	23.50	1.250	62.9	1.006	0.09	0.907	1.141
	LTE Band 48	20M	QPSK	1	0	-	Back	5mm	Ant 9	DSI7	56640	3690	1	22.51	23.50	1.256	62.9	1.006	0.04	0.845	1.068
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	55830	3609	1	22.53	23.50	1.250	62.9	1.006	0.11	0.670	0.843
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	55340	3560	1	22.46	23.50	1.271	62.9	1.006	-0.13	0.807	1.032
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	56150	3641	1	22.41	23.50	1.285	62.9	1.006	0.12	0.676	0.874
	LTE Band 48	20M	QPSK	50	0	-	Back	5mm	Ant 9	DSI7	56640	3690	1	22.40	23.50	1.288	62.9	1.006	-0.11	0.610	0.791
	LTE Band 48	20M	QPSK	100	0	-	Back	5mm	Ant 9	DSI7	55830	3609	1	22.47	23.50	1.268	62.9	1.006	0.17	0.751	0.958
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	55830	3609	1	22.57	23.50	1.239	62.9	1.006	-0.16	0.511	0.637

	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	55340	3560	1	22.49	23.50	1.262	62.9	1.006	-0.17	0.516	0.655
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	56150	3641	1	22.53	23.50	1.250	62.9	1.006	0.11	0.468	0.589
	LTE Band 48	20M	QPSK	1	0	-	Left Side	5mm	Ant 9	DSI7	56640	3690	1	22.51	23.50	1.256	62.9	1.006	-0.05	0.390	0.493
	LTE Band 48	20M	QPSK	50	0	-	Left Side	5mm	Ant 9	DSI7	55830	3609	1	22.53	23.50	1.250	62.9	1.006	-0.01	0.381	0.479
	LTE Band 48	20M	QPSK	100	0	-	Left Side	5mm	Ant 9	DSI7	55830	3609	1	22.47	23.50	1.268	62.9	1.006	-0.17	0.428	0.546
	LTE Band 48	20M	QPSK	1	0	-	Right Side	5mm	Ant 9	DSI7	55830	3609	1	22.57	23.50	1.239	62.9	1.006	0.08	0.049	0.061
	LTE Band 48	20M	QPSK	50	0	-	Right Side	5mm	Ant 9	DSI7	55830	3609	1	22.53	23.50	1.250	62.9	1.006	0.01	0.037	0.047
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	55830	3609	1	22.57	23.50	1.239	62.9	1.006	0.02	0.597	0.744
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	55340	3560	1	22.49	23.50	1.262	62.9	1.006	-0.11	0.615	0.781
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	56150	3641	1	22.53	23.50	1.250	62.9	1.006	-0.01	0.559	0.703
	LTE Band 48	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 9	DSI7	56640	3690	1	22.51	23.50	1.256	62.9	1.006	0.09	0.503	0.636
	LTE Band 48	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	55830	3609	1	22.53	23.50	1.250	62.9	1.006	0.1	0.494	0.621
	LTE Band 48	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	55340	3560	1	22.46	23.50	1.271	62.9	1.006	-0.04	0.533	0.681
	LTE Band 48	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	56150	3641	1	22.41	23.50	1.285	62.9	1.006	0.15	0.486	0.628
	LTE Band 48	20M	QPSK	50	0	-	Bottom Side	5mm	Ant 9	DSI7	56640	3690	1	22.40	23.50	1.288	62.9	1.006	0.09	0.430	0.557
	LTE Band 48	20M	QPSK	100	0	-	Bottom Side	5mm	Ant 9	DSI7	55830	3609	1	22.47	23.50	1.268	62.9	1.006	-0.16	0.546	0.696
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Front	5mm	Ant 9	DSI7	55830	3609	1	20.73	21.50	1.194	62.9	1.006	0.01	0.823	0.989
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI7	641666	3624.99	1	12.28	14.00	1.486	-	-	0.15	0.130	0.193
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI7	641666	3624.99	1	12.20	14.00	1.514	-	-	0.14	0.139	0.210
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI7	641666	3624.99	1	12.28	14.00	1.486	-	-	-0.14	0.215	0.319
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI7	641666	3624.99	1	12.20	14.00	1.514	-	-	0.17	0.239	0.362
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.28	14.00	1.486	-	-	0.07	0.006	0.009
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.20	14.00	1.514	-	-	-0.04	0.006	0.009
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.28	14.00	1.486	-	-	-0.18	0.064	0.095
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.20	14.00	1.514	-	-	-0.13	0.090	0.136
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.28	14.00	1.486	-	-	0	0.357	0.530
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.20	14.00	1.514	-	-	0.02	0.406	0.615
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	641666	3624.99	1	12.20	14.00	1.514	-	-	0.04	0.311	0.471
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI7	641666	3624.99	1	13.58	14.60	1.265	-	-	0.07	0.053	0.067
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI7	641666	3624.99	1	13.52	14.60	1.282	-	-	-0.17	0.080	0.103
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	641666	3624.99	1	13.58	14.60	1.265	-	-	0.08	0.427	0.540
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	641666	3624.99	1	13.52	14.60	1.282	-	-	0.01	0.501	0.642
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI7	641666	3624.99	1	13.58	14.60	1.265	-	-	-0.13	0.200	0.253
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI7	641666	3624.99	1	13.52	14.60	1.282	-	-	-0.1	0.281	0.360
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI7	641666	3624.99	1	13.58	14.60	1.265	-	-	0.11	0.006	0.008
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI7	641666	3624.99	1	13.52	14.60	1.282	-	-	-0.17	0.005	0.006
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI7	641666	3624.99	1	13.58	14.60	1.265	-	-	0.01	0.025	0.032
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI7	641666	3624.99	1	13.52	14.60	1.282	-	-	0.1	0.028	0.036
	FR1 n48_Main PA	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	641666	3624.99	1	13.52	14.60	1.282	-	-	-0.03	0.349	0.448
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI7	641666	3624.99	1	13.51	14.70	1.315	-	-	-0.14	0.147	0.193
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI7	641666	3624.99	1	13.47	14.70	1.327	-	-	0.06	0.152	0.202
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	641666	3624.99	1	13.51	14.70	1.315	-	-	-0.15	0.398	0.523
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	641666	3624.99	1	13.47	14.70	1.327	-	-	-0.04	0.471	0.625
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.51	14.70	1.315	-	-	-0.16	0.007	0.009
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.47	14.70	1.327	-	-	-0.03	0.008	0.011
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.51	14.70	1.315	-	-	0.17	0.342	0.450
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.47	14.70	1.327	-	-	0.02	0.412	0.547
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.51	14.70	1.315	-	-	0.18	0.174	0.229
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI7	641666	3624.99	1	13.47	14.70	1.327	-	-	-0.11	0.190	0.252
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	641666	3624.99	1	13.47	14.70	1.327	-	-	-0.04	0.377	0.500
63	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	641666	3624.99	1	20.20	21.20	1.259	-	-	0.04	0.939	**1.182**
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	638000	3570	1	19.89	21.20	1.352	-	-	0.07	0.871	1.178
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	645332	3679.98	1	19.82	21.20	1.374	-	-	0	0.785	1.079
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	641666	3624.99	1	20.12	21.20	1.282	-	-	0.08	0.722	0.926
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	638000	3570	1	19.65	21.20	1.429	-	-	0.01	0.654	0.934
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	645332	3679.98	1	19.81	21.20	1.377	-	-	-0.01	0.635	0.875

	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	641666	3624.99	1	20.05	21.20	1.303	-	-	-0.18	0.749	0.976
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	641666	3624.99	1	20.20	21.20	1.259	-	-	-0.03	0.897	1.129
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	638000	3570	1	19.89	21.20	1.352	-	-	-0.06	0.786	1.063
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	645332	3679.98	1	19.82	21.20	1.374	-	-	-0.04	0.782	1.075
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	641666	3624.99	1	20.12	21.20	1.282	-	-	-0.04	0.769	0.986
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	638000	3570	1	19.65	21.20	1.429	-	-	-0.09	0.689	0.985
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	645332	3679.98	1	19.81	21.20	1.377	-	-	-0.17	0.632	0.870
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	641666	3624.99	1	20.05	21.20	1.303	-	-	0.02	0.601	0.783
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	641666	3624.99	1	20.20	21.20	1.259	-	-	0.18	0.421	0.530
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	641666	3624.99	1	20.12	21.20	1.282	-	-	0.11	0.401	0.514
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	641666	3624.99	1	20.20	21.20	1.259	-	-	-0.03	0.047	0.059
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	641666	3624.99	1	20.12	21.20	1.282	-	-	0.09	0.038	0.049
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	641666	3624.99	1	20.20	21.20	1.259	-	-	-0.08	0.508	0.640
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	641666	3624.99	1	20.12	21.20	1.282	-	-	-0.05	0.438	0.562
	FR1 n48_Main PA	40M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	641666	3624.99	1	20.20	21.20	1.259	-	-	-0.09	0.679	0.855
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI7	656000	3840	1	10.80	12.50	1.479	-	-	0.17	0.045	0.067
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI7	656000	3840	1	10.70	12.50	1.514	-	-	-0.16	0.023	0.035
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI7	656000	3840	1	10.80	12.50	1.479	-	-	0.11	0.100	0.148
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI7	656000	3840	1	10.70	12.50	1.514	-	-	-0.05	0.051	0.077
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI7	656000	3840	1	10.80	12.50	1.479	-	-	-0.14	0.003	0.004
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI7	656000	3840	1	10.70	12.50	1.514	-	-	-0.15	0.002	0.003
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI7	656000	3840	1	10.80	12.50	1.479	-	-	-0.12	0.018	0.027
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI7	656000	3840	1	10.70	12.50	1.514	-	-	-0.17	0.010	0.015
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	656000	3840	1	10.80	12.50	1.479	-	-	0.04	0.413	0.611
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	656000	3840	1	10.70	12.50	1.514	-	-	0.01	0.076	0.115
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	656000	3840	1	13.84	15.50	1.466	50	1.000	-0.11	0.396	0.580
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	656000	3840	1	10.80	12.50	1.479	-	-	-0.02	0.305	0.451
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	656000	3840	1	13.84	15.50	1.466	50	1.000	-0.01	0.293	0.429
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI7	633334	3500.01	1	10.66	12.50	1.528	-	-	0.02	0.044	0.067
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 7	DSI7	633334	3500.01	1	10.63	12.50	1.538	-	-	-0.03	0.054	0.083
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI7	633334	3500.01	1	10.66	12.50	1.528	-	-	-0.1	0.096	0.147
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 7	DSI7	633334	3500.01	1	10.63	12.50	1.538	-	-	0.05	0.105	0.162
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.66	12.50	1.528	-	-	0.07	0.002	0.003
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.63	12.50	1.538	-	-	0.15	0.003	0.005
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.66	12.50	1.528	-	-	-0.05	0.016	0.024
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.63	12.50	1.538	-	-	-0.08	0.024	0.037
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.66	12.50	1.528	-	-	-0.13	0.130	0.199
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.63	12.50	1.538	-	-	0.01	0.281	0.432
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	633334	3500.01	1	13.62	15.50	1.542	50	1.000	0.03	0.268	0.413
	FR1 n77 Part 27Q_Other PA	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	633334	3500.01	1	10.63	12.50	1.538	-	-	0.02	0.183	0.281
	FR1 n77 Part 27Q_Other PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 7	DSI7	633334	3500.01	1	13.69	15.50	1.517	50	1.000	-0.05	0.169	0.256
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI7	656000	3840	1	13.71	13.90	1.045	-	-	-0.13	0.155	0.162
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI7	656000	3840	1	13.63	13.90	1.064	-	-	-0.01	0.189	0.201
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	656000	3840	1	13.71	13.90	1.045	-	-	0.09	0.430	0.449
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	656000	3840	1	13.63	13.90	1.064	-	-	0.09	0.326	0.347
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI7	656000	3840	1	13.71	13.90	1.045	-	-	-0.18	0.429	0.448
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI7	656000	3840	1	13.63	13.90	1.064	-	-	-0.06	0.371	0.395
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI7	656000	3840	1	13.71	13.90	1.045	-	-	0.16	0.003	0.003
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI7	656000	3840	1	13.63	13.90	1.064	-	-	0.01	0.000	0.000
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI7	656000	3840	1	13.71	13.90	1.045	-	-	-0.04	0.031	0.032
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI7	656000	3840	1	13.63	13.90	1.064	-	-	0.13	0.033	0.035
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	656000	3840	1	16.68	16.90	1.052	50	1.000	0.12	0.392	0.412
	FR1 n77 Part 27O_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	656000	3840	1	12.30	14.00	1.479	-	-	0.01	0.265	0.392
	FR1 n77 Part 27O_Main PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	656000	3840	1	15.27	17.00	1.489	50	1.000	0.07	0.246	0.366
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI7	633334	3500.01	1	13.62	13.90	1.067	-	-	-0.07	0.051	0.054
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 4	DSI7	633334	3500.01	1	13.57	13.90	1.079	-	-	0.11	0.058	0.063

	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	633334	3500.01	1	13.62	13.90	1.067	-	-	-0.1	0.419	0.447
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	633334	3500.01	1	13.57	13.90	1.079	-	-	0.09	**0.482**	0.520
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI7	633334	3500.01	1	13.62	13.90	1.067	-	-	-0.09	0.174	0.186
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 4	DSI7	633334	3500.01	1	13.57	13.90	1.079	-	-	-0.06	0.194	0.209
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI7	633334	3500.01	1	13.62	13.90	1.067	-	-	-0.01	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 4	DSI7	633334	3500.01	1	13.57	13.90	1.079	-	-	-0.11	0.000	0.000
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI7	633334	3500.01	1	13.62	13.90	1.067	-	-	0.14	0.020	0.021
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 4	DSI7	633334	3500.01	1	13.57	13.90	1.079	-	-	0.03	0.020	0.022
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	633334	3500.01	1	16.53	16.90	1.089	50	1.000	0.1	0.436	0.475
	FR1 n77 Part 27Q_Main PA	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	633334	3500.01	1	12.51	14.00	1.409	-	-	-0.08	0.324	0.457
	FR1 n77 Part 27Q_Main PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 4	DSI7	633334	3500.01	1	15.68	17.00	1.355	50	1.000	0.16	0.311	0.421
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI7	656000	3840	1	13.89	14.70	1.205	-	-	0.16	0.101	0.122
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI7	656000	3840	1	13.85	14.70	1.216	-	-	0.01	0.058	0.071
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	656000	3840	1	13.89	14.70	1.205	-	-	-0.06	0.506	0.610
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	656000	3840	1	13.85	14.70	1.216	-	-	0.1	0.109	0.133
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI7	656000	3840	1	13.89	14.70	1.205	-	-	-0.01	0.005	0.006
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI7	656000	3840	1	13.85	14.70	1.216	-	-	0	0.000	0.000
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	656000	3840	1	13.89	14.70	1.205	-	-	-0.11	0.255	0.307
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	656000	3840	1	13.85	14.70	1.216	-	-	-0.06	0.097	0.118
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI7	656000	3840	1	13.89	14.70	1.205	-	-	0.03	0.074	0.089
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI7	656000	3840	1	13.85	14.70	1.216	-	-	-0.13	0.043	0.052
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	656000	3840	1	16.86	17.70	1.213	50	1.000	-0.15	0.469	0.569
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	656000	3840	1	12.57	13.00	1.104	-	-	0.02	0.590	0.651
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	656000	3840	1	15.42	16.00	1.143	50	1.000	-0.02	0.534	0.610
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI7	633334	3500.01	1	14.34	14.70	1.086	-	-	-0.02	0.127	0.138
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 8	DSI7	633334	3500.01	1	14.16	14.70	1.132	-	-	0.1	0.127	0.144
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	633334	3500.01	1	14.34	14.70	1.086	-	-	0.13	0.242	0.263
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 8	DSI7	633334	3500.01	1	14.16	14.70	1.132	-	-	-0.01	0.224	0.254
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI7	633334	3500.01	1	14.34	14.70	1.086	-	-	-0.11	0.005	0.005
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 8	DSI7	633334	3500.01	1	14.16	14.70	1.132	-	-	-0.16	0.005	0.006
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	633334	3500.01	1	14.34	14.70	1.086	-	-	-0.01	0.525	0.570
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	633334	3500.01	1	14.16	14.70	1.132	-	-	-0.15	0.221	0.250
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI7	633334	3500.01	1	14.34	14.70	1.086	-	-	-0.14	0.101	0.110
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Top Side	5mm	Ant 8	DSI7	633334	3500.01	1	14.16	14.70	1.132	-	-	-0.19	0.112	0.127
	FR1 n77 Part 27Q PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	633334	3500.01	1	17.25	17.70	1.109	50	1.000	0.06	0.466	0.517
	FR1 n77 Part 27Q_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	633334	3500.01	1	12.08	13.00	1.236	-	-	0.04	0.302	0.373
	FR1 n77 Part 27Q_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 8	DSI7	633334	3500.01	1	15.15	16.00	1.216	50	1.000	0.02	0.298	0.362
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	1	20.87	21.20	1.079	-	-	-0.08	0.824	0.889
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	2	20.87	21.20	1.079	-	-	0.01	0.754	0.814
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	1	20.84	21.20	1.086	-	-	-0.14	0.659	0.716
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	1	20.32	21.20	1.225	-	-	0.06	0.451	0.552
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	656000	3840	1	20.87	21.20	1.079	-	-	-0.06	0.536	0.578
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	656000	3840	1	20.84	21.20	1.086	-	-	-0.15	0.590	0.641
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	656000	3840	1	20.87	21.20	1.079	-	-	-0.16	0.312	0.337
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	656000	3840	1	20.84	21.20	1.086	-	-	-0.03	0.253	0.275
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	656000	3840	1	20.87	21.20	1.079	-	-	0.02	0.050	0.054
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	656000	3840	1	20.84	21.20	1.086	-	-	0	0.392	0.426
	FR1 n77 Part 27O	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	656000	3840	1	20.87	21.20	1.079	-	-	0.18	0.426	0.460
	FR1 n77 Part 27O	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	656000	3840	1	20.84	21.20	1.086	-	-	-0.11	0.309	0.336
	FR1 n77 Part 27O	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	656000	3840	1	20.32	21.20	1.225	-	-	-0.05	0.562	0.688
	FR1 n77 Part 27O PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	1	21.25	22.00	1.189	50	1.000	0.17	0.489	0.581
	FR1 n77 Part 27O_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	1	19.78	21.20	1.387	-	-	0.09	0.560	0.777
	FR1 n77 Part 27O_Other PA PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	656000	3840	1	22.71	24.20	1.409	50	1.000	-0.04	0.585	0.824
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	633334	3500.01	1	20.42	21.20	1.197	-	-	0.08	0.754	0.902
64	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	633334	3500.01	1	20.28	21.20	1.236	-	-	-0.05	0.986	**1.219**
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	633334	3500.01	1	20.14	21.20	1.276	-	-	0.03	0.925	1.181

	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	633334	3500.01	1	20.42	21.20	1.197	-	-	-0.08	0.505	0.604
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Back	5mm	Ant 9	DSI7	633334	3500.01	1	20.28	21.20	1.236	-	-	-0.08	0.632	0.781
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.42	21.20	1.197	-	-	-0.18	0.381	0.456
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Left Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.28	21.20	1.236	-	-	0.1	0.554	0.685
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.42	21.20	1.197	-	-	0.08	0.031	0.037
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Right Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.28	21.20	1.236	-	-	-0.17	0.064	0.079
	FR1 n77 Part 27Q	100M	QPSK	1	1	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.42	21.20	1.197	-	-	-0.03	0.520	0.622
	FR1 n77 Part 27Q	100M	QPSK	135	69	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.28	21.20	1.236	-	-	0.14	0.771	0.953
	FR1 n77 Part 27Q	100M	QPSK	270	0	DFT-SCS-30KHz	Bottom Side	5mm	Ant 9	DSI7	633334	3500.01	1	20.14	21.20	1.276	-	-	0.11	0.591	0.754
	FR1 n77 Part 27Q PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	633334	3500.01	1	23.36	24.20	1.213	50	1.000	0.01	0.906	1.099
	FR1 n77 Part 27Q_Main PA	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	633334	3500.01	1	21.15	21.20	1.012	-	-	0.03	0.862	0.872
	FR1 n77 Part 27Q_Main PA PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Front	5mm	Ant 9	DSI7	633334	3500.01	1	22.80	24.00	1.318	50	1.000	-0.05	0.686	0.904

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 2+3(2)	Simultaneous	1	2412	1	11.27	13.00	1.489	98.29	1.017	0.08	0.237	0.359
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 2+3(2)	Simultaneous	1	2412	1	11.27	13.00	1.489	98.29	1.017	0.01	0.371	0.562
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	Ant 2+3(2)	Simultaneous	1	2412	1	11.27	13.00	1.489	98.29	1.017	0.03	0.045	0.068
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 2+3(2)	Simultaneous	1	2412	1	11.27	13.00	1.489	98.29	1.017	-0.08	0.180	0.273
66	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 2+3(2)	Simultaneous	1	2412	1	11.27	13.00	1.489	98.29	1.017	-0.06	0.421	**0.638**
	Bluetooth	1Mbps	Front	5mm	Ant 3	Simultaneous	39	2441	1	12.58	13.00	1.102	76.96	1.082	-0.08	0.103	0.123
	Bluetooth	1Mbps	Back	5mm	Ant 3	Simultaneous	39	2441	1	12.58	13.00	1.102	76.96	1.082	0.1	0.152	0.181
	Bluetooth	1Mbps	Left Side	5mm	Ant 3	Simultaneous	39	2441	1	12.58	13.00	1.102	76.96	1.082	-0.18	0.000	0.000
	Bluetooth	1Mbps	Right Side	5mm	Ant 3	Simultaneous	39	2441	1	12.58	13.00	1.102	76.96	1.082	0.1	0.029	0.035
67	Bluetooth	1Mbps	Top Side	5mm	Ant 3	Simultaneous	39	2441	1	12.58	13.00	1.102	76.96	1.082	-0.09	0.222	**0.264**
	Bluetooth	1Mbps	Top Side	5mm	Ant 3	Simultaneous	0	2402	1	12.44	13.00	1.138	76.96	1.082	0.12	0.154	0.189
	Bluetooth	1Mbps	Top Side	5mm	Ant 3	Simultaneous	78	2480	1	10.07	11.00	1.239	76.96	1.082	0.08	0.131	0.176
	Bluetooth	1Mbps	Front	5mm	Ant 2	Simultaneous	0	2402	1	12.81	13.50	1.172	76.9	1.083	-0.17	0.070	0.089
	Bluetooth	1Mbps	Back	5mm	Ant 2	Simultaneous	0	2402	1	12.81	13.50	1.172	76.9	1.083	-0.03	0.149	0.189
	Bluetooth	1Mbps	Left Side	5mm	Ant 2	Simultaneous	0	2402	1	12.81	13.50	1.172	76.9	1.083	0.14	0.000	0.000
	Bluetooth	1Mbps	Right Side	5mm	Ant 2	Simultaneous	0	2402	1	12.81	13.50	1.172	76.9	1.083	0.11	0.163	0.207
	Bluetooth	1Mbps	Top Side	5mm	Ant 2	Simultaneous	0	2402	1	12.81	13.50	1.172	76.9	1.083	-0.05	0.016	0.021
	Bluetooth	1Mbps	Back	5mm	Ant 2	Simultaneous	39	2441	1	12.07	12.50	1.104	76.9	1.083	0.08	0.176	0.211
	Bluetooth	1Mbps	Back	5mm	Ant 2	Simultaneous	78	2480	1	12.28	12.50	1.052	76.9	1.083	0.18	0.169	0.192
5000MHz																	
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+8(8)	Simultaneous	42	5210	1	9.92	11.50	1.439	97.25	1.028	-0.17	0.070	0.104
68	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+8(8)	Simultaneous	42	5210	1	9.92	11.50	1.439	97.25	1.028	0.03	0.355	**0.525**
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+8(8)	Simultaneous	42	5210	1	9.92	11.50	1.439	97.25	1.028	-0.03	0.026	0.038
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+8(8)	Simultaneous	42	5210	1	9.92	11.50	1.439	97.25	1.028	0.14	0.172	0.254
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+8(8)	Simultaneous	42	5210	1	9.92	11.50	1.439	97.25	1.028	0.11	0.078	0.115
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 5+8(5)	Simultaneous	155	5775	1	11.31	13.00	1.476	97.25	1.028	-0.09	0.169	0.256
69	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 5+8(5)	Simultaneous	155	5775	1	11.31	13.00	1.476	97.25	1.028	-0.05	0.354	**0.537**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Side	5mm	Ant 5+8(5)	Simultaneous	155	5775	1	11.31	13.00	1.476	97.25	1.028	-0.08	0.035	0.053
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 5+8(5)	Simultaneous	155	5775	1	11.31	13.00	1.476	97.25	1.028	0.13	0.179	0.272
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 5+8(5)	Simultaneous	155	5775	1	11.31	13.00	1.476	97.25	1.028	0.12	0.097	0.147

16.3 Body Worn Accessory SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																						
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	133322	683	1	22.98	24.00	1.265	-	-	0.08	0.395	0.500
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	133322	683	1	22.89	24.00	1.291	-	-	0.01	0.334	0.431
	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	133322	683	1	22.98	24.00	1.265	-	-	0.03	0.597	0.755
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	133322	683	1	22.89	24.00	1.291	-	-	0.03	0.507	0.655
	LTE Band 71	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	133322	683	1	22.89	24.00	1.291	-	-	0.08	0.327	0.422
	LTE Band 71	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI3	133322	683	1	22.87	24.00	1.297	-	-	0.01	0.280	0.363
70	LTE Band 71	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	133322	683	1	22.89	24.00	1.291	-	-	-0.04	0.648	**0.837**
	LTE Band 71	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	133322	683	1	22.87	24.00	1.297	-	-	0.03	0.594	0.771
	LTE Band 71	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI3	133322	683	1	22.75	24.00	1.334	-	-	-0.08	0.407	0.543
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	23095	707.5	1	23.10	24.00	1.230	-	-	-0.17	0.417	0.513
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI3	23095	707.5	1	23.06	24.00	1.242	-	-	-0.03	0.410	0.509
71	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	23095	707.5	1	23.10	24.00	1.230	-	-	-0.02	0.673	**0.828**
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI3	23095	707.5	1	23.06	24.00	1.242	-	-	0.14	0.516	0.641
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	23095	707.5	1	23.00	24.00	1.259	-	-	0.11	0.496	0.624
	LTE Band 12	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	23095	707.5	1	23.05	24.00	1.245	-	-	-0.08	0.355	0.442
	LTE Band 12	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI3	23095	707.5	1	22.95	24.00	1.274	-	-	0.1	0.285	0.363
	LTE Band 12	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	23095	707.5	1	23.05	24.00	1.245	-	-	0.07	0.650	0.809
	LTE Band 12	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI3	23095	707.5	1	22.95	24.00	1.274	-	-	-0.18	0.496	0.632
	LTE Band 12	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	23095	707.5	1	22.93	24.00	1.279	-	-	0.1	0.293	0.375
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	23230	782	1	23.10	24.00	1.230	-	-	0.01	0.642	0.790
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI3	23230	782	1	23.08	24.00	1.236	-	-	0.1	0.555	0.686
72	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	23230	782	1	23.10	24.00	1.230	-	-	0.05	0.796	**0.979**
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI3	23230	782	1	23.08	24.00	1.236	-	-	-0.17	0.686	0.848
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	23230	782	1	23.06	24.00	1.242	-	-	0.04	0.676	0.839
	LTE Band 13	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	23230	782	1	22.85	24.00	1.303	-	-	0.12	0.358	0.467
	LTE Band 13	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI3	23230	782	1	21.84	23.00	1.306	-	-	0.08	0.296	0.387
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	23230	782	1	22.85	24.00	1.303	-	-	0.1	0.682	0.889
	LTE Band 13	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	23230	782	2	22.85	24.00	1.303	-	-	0.02	0.623	0.812
	LTE Band 13	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI3	23230	782	1	21.84	23.00	1.306	-	-	-0.17	0.444	0.580
	LTE Band 13	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	23230	782	1	21.79	23.00	1.321	-	-	-0.03	0.490	0.647
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	23330	793	1	22.93	24.00	1.279	-	-	0.13	0.689	0.881
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 0	-	DSI3	23330	793	1	22.91	24.00	1.285	-	-	0.12	0.533	0.685
	LTE Band 14	10M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	23330	793	1	22.89	24.00	1.291	-	-	0.18	0.547	0.706
73	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	23330	793	1	22.93	23.70	1.194	-	-	0.02	0.879	**1.050**
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 0	-	DSI3	23330	793	1	22.91	23.70	1.199	-	-	0.03	0.703	0.843
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	23330	793	1	22.89	23.70	1.205	-	-	0.18	0.647	0.780
	LTE Band 14	10M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	23330	793	1	22.99	23.30	1.074	-	-	0.14	0.478	0.513
	LTE Band 14	10M	QPSK	25	0	-	Front	5mm	Ant 1	-	DSI3	23330	793	1	22.97	23.30	1.079	-	-	0.11	0.389	0.420
	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	23330	793	1	22.99	23.30	1.074	-	-	0.03	0.750	0.805
	LTE Band 14	10M	QPSK	25	0	-	Back	5mm	Ant 1	-	DSI3	23330	793	1	22.97	23.30	1.079	-	-	0.18	0.645	0.696
	LTE Band 14	10M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	23330	793	1	22.96	23.30	1.081	-	-	0.14	0.530	0.573
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	136100	680.5	1	23.84	24.00	1.038	-	-	-0.15	0.322	0.334
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	136100	680.5	1	23.74	24.00	1.062	-	-	0.19	0.301	0.320
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	136100	680.5	1	23.84	24.00	1.038	-	-	0.01	0.476	0.494
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	136100	680.5	1	23.74	24.00	1.062	-	-	0.07	0.455	0.483
	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	136100	680.5	1	23.86	24.00	1.033	-	-	-0.17	0.291	0.301
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	136100	680.5	1	23.81	24.00	1.045	-	-	0.17	0.286	0.299
74	FR1 n71	20M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	136100	680.5	1	23.86	24.00	1.033	-	-	0.03	0.675	**0.697**
	FR1 n71	20M	QPSK	50	28	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	136100	680.5	1	23.81	24.00	1.045	-	-	-0.05	0.604	0.631
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	141500	707.5	1	23.51	24.00	1.119	-	-	-0.17	0.296	0.331

	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	141500	707.5	1	23.36	24.00	1.159	-	-	-0.08	0.310	0.359
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	141500	707.5	1	23.51	24.00	1.119	-	-	0.01	0.436	0.488
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	141500	707.5	1	23.36	24.00	1.159	-	-	-0.04	0.404	0.468
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	141500	707.5	1	23.79	24.00	1.050	-	-	0.1	0.253	0.266
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	141500	707.5	1	23.68	24.00	1.076	-	-	-0.17	0.317	0.341
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	141500	707.5	1	23.79	24.00	1.050	-	-	0.04	0.586	0.615
75	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	141500	707.5	1	23.68	24.00	1.076	-	-	0.09	0.605	**0.651**
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	158600	793	1	23.15	24.00	1.216	-	-	-0.13	0.442	0.538
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	158600	793	1	23.06	24.00	1.242	-	-	0.06	0.428	0.531
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	158600	793	1	23.15	24.00	1.216	-	-	0.02	0.552	0.671
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	158600	793	1	23.06	24.00	1.242	-	-	-0.03	0.533	0.662
	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	158600	793	1	23.09	24.00	1.233	-	-	-0.08	0.421	0.519
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	158600	793	1	23.01	24.00	1.256	-	-	0.05	0.435	0.546
76	FR1 n14	10M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	158600	793	1	23.09	24.00	1.233	-	-	-0.05	0.691	**0.852**
	FR1 n14	10M	QPSK	25	14	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	158600	793	1	23.01	24.00	1.256	-	-	0.06	0.594	0.746
	FR1 n14	10M	QPSK	50	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	158600	793	1	22.94	24.00	1.276	-	-	-0.09	0.641	0.818
									835MHz												
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI3	189	836.4	1	25.17	26.50	1.358	-	-	0.03	0.631	0.857
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI3	128	824.2	1	25.25	26.50	1.334	-	-	-0.16	0.513	0.684
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI3	251	848.8	1	25.45	26.50	1.274	-	-	-0.02	0.546	0.695
77	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI3	189	836.4	1	25.17	26.50	1.358	-	-	0.03	0.773	**1.050**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI3	128	824.2	1	25.25	26.50	1.334	-	-	0.15	0.693	0.924
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI3	251	848.8	1	25.45	26.50	1.274	-	-	-0.09	0.670	0.853
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	4182	836.4	1	23.03	24.00	1.250	-	-	0.05	0.796	0.995
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	4132	826.4	1	23.01	24.00	1.256	-	-	-0.03	0.810	1.017
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	4233	846.6	1	22.99	24.00	1.262	-	-	-0.15	0.711	0.897
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	4182	836.4	1	23.03	24.00	1.250	-	-	0.02	0.990	1.238
78	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	4132	826.4	1	23.01	24.00	1.256	-	-	0.05	1.000	**1.256**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI3	4132	826.4	1	23.01	24.00	1.256	-	-	0.01	0.955	1.200
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	4233	846.6	1	22.99	24.00	1.262	-	-	0.07	0.858	1.083
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI3	4182	836.4	1	22.02	23.00	1.253	-	-	-0.08	0.489	0.613
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	4182	836.4	1	22.02	23.00	1.253	-	-	-0.02	0.714	0.895
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	4182	836.4	2	22.02	23.00	1.253	-	-	0.02	0.632	0.792
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	4132	826.4	1	21.98	23.00	1.265	-	-	0.03	0.674	0.852
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	4233	846.6	1	21.99	23.00	1.262	-	-	0.18	0.661	0.834
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	-	DSI4	4182	836.4	1	23.19	24.00	1.205	-	-	-0.1	0.215	0.259
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 1	-	DSI4	4182	836.4	1	23.19	24.00	1.205	-	-	0.01	0.197	0.237
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26865	831.5	1	22.94	24.00	1.276	-	-	-0.03	0.796	1.016
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26915	836.5	1	22.77	24.00	1.327	-	-	-0.02	0.684	0.908
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26965	841.5	1	22.75	24.00	1.334	-	-	0.01	0.657	0.876
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI3	26865	831.5	1	22.90	24.00	1.288	-	-	0.07	0.685	0.882
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI3	26915	836.5	1	22.75	24.00	1.334	-	-	0.03	0.587	0.783
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 0	-	DSI3	26965	841.5	1	22.61	24.00	1.377	-	-	0.06	0.598	0.824
	LTE Band 26	15M	QPSK	75	0	-	Front	5mm	Ant 0	-	DSI3	26865	831.5	1	22.87	24.00	1.297	-	-	0	0.657	0.852
79	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26865	831.5	1	22.94	24.00	1.276	-	-	0.05	0.970	**1.238**
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3	26865	831.5	1	22.94	24.00	1.276	-	-	0.01	0.922	1.177
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26915	836.5	1	22.77	24.00	1.327	-	-	0.06	0.869	1.154
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26965	841.5	1	22.75	24.00	1.334	-	-	0.01	0.872	1.163
	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 0	-	DSI3	20476+ 20575	831.6+ 841.5	1	22.75	24.00	1.334	-	-	0.05	0.892	1.190
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI3	26865	831.5	1	22.90	24.00	1.288	-	-	0.01	0.819	1.055
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI3	26915	836.5	1	22.75	24.00	1.334	-	-	0.05	0.754	1.005
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 0	-	DSI3	26965	841.5	1	22.61	24.00	1.377	-	-	0.06	0.721	0.993
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 0	-	DSI3	26865	831.5	1	22.87	24.00	1.297	-	-	-0.01	0.797	1.034
	LTE Band 26	15M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	26865	831.5	1	22.29	23.10	1.205	-	-	0.16	0.478	0.576
	LTE Band 26	15M	QPSK	36	0	-	Front	5mm	Ant 1	-	DSI3	26865	831.5	1	22.22	23.10	1.225	-	-	-0.1	0.399	0.489
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26865	831.5	1	22.29	23.10	1.205	-	-	0.04	0.717	0.864

	LTE Band 5B	10M	QPSK	1	49	-	Back	5mm	Ant 1	-	DSI3	20476+20575	831.6+841.5	1	21.62	23.10	1.406	-	-	0.03	0.601	0.845
	LTE Band 26	15M	QPSK	36	0	-	Back	5mm	Ant 1	-	DSI3	26865	831.5	1	22.22	23.10	1.225	-	-	0.07	0.641	0.785
	LTE Band 26	15M	QPSK	75	0	-	Back	5mm	Ant 1	-	DSI3	26865	831.5	1	22.20	23.10	1.230	-	-	0.18	0.582	0.716
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26915	836.5	1	22.13	23.10	1.250	-	-	0.01	0.635	0.794
	LTE Band 26	15M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26965	841.5	1	22.22	23.10	1.225	-	-	0.06	0.651	0.797
	LTE Band 26	15M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI4	26865	831.5	1	22.70	24.00	1.349	-	-	-0.15	0.179	0.241
	LTE Band 26	15M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI4	26865	831.5	1	22.70	24.00	1.349	-	-	0.19	0.163	0.220
	FR1 n26	20M	QPSK	1	1	-	Front	5mm	Ant 0	-	DSI3	166300	831.5	1	23.35	24.00	1.161	-	-	-0.17	0.555	0.645
	FR1 n26	20M	QPSK	50	28	-	Front	5mm	Ant 0	-	DSI3	166300	831.5	1	23.23	24.00	1.194	-	-	-0.04	0.541	0.646
80	FR1 n26	20M	QPSK	1	1	-	Back	5mm	Ant 0	-	DSI3	166300	831.5	1	23.35	24.00	1.161	-	-	0.12	0.694	**0.806**
	FR1 n26	20M	QPSK	50	28	-	Back	5mm	Ant 0	-	DSI3	166300	831.5	1	23.23	24.00	1.194	-	-	0	0.623	0.744
	FR1 n26	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	166300	831.5	1	23.24	24.00	1.191	-	-	-0.13	0.589	0.702
	FR1 n26	20M	QPSK	1	1	-	Front	5mm	Ant 1	-	DSI3	166300	831.5	1	23.47	24.00	1.130	-	-	-0.1	0.407	0.460
	FR1 n26	20M	QPSK	50	28	-	Front	5mm	Ant 1	-	DSI3	166300	831.5	1	23.36	24.00	1.159	-	-	0.01	0.403	0.467
	FR1 n26	20M	QPSK	1	1	-	Back	5mm	Ant 1	-	DSI3	166300	831.5	1	23.47	24.00	1.130	-	-	-0.15	0.636	0.719
	FR1 n26	20M	QPSK	50	28	-	Back	5mm	Ant 1	-	DSI3	166300	831.5	1	23.36	24.00	1.159	-	-	0.05	0.653	0.757
1750MHz																						
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	1413	1732.6	1	18.54	19.20	1.164	-	-	-0.04	0.869	1.012
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	1312	1712.4	1	18.51	19.20	1.172	-	-	-0.15	0.858	1.006
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	1513	1752.6	1	18.53	19.20	1.167	-	-	0.11	0.916	1.069
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	1413	1732.6	1	18.54	19.20	1.164	-	-	-0.02	0.933	1.086
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	1312	1712.4	1	18.51	19.20	1.172	-	-	0.1	0.972	1.139
81	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	1513	1752.6	1	18.53	19.20	1.167	-	-	0.04	1.100	**1.283**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI3	1513	1752.6	1	18.53	19.20	1.167	-	-	0.02	1.020	1.190
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	1413	1732.6	1	23.19	24.00	1.205	-	-	0.07	0.772	0.930
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 0	-	DSI4	1513	1752.6	1	23.17	24.00	1.211	-	-	-0.18	0.797	0.965
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI3	1413	1732.6	1	18.62	19.70	1.282	-	-	0.07	0.546	0.700
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	1413	1732.6	1	18.62	19.70	1.282	-	-	-0.15	0.632	0.810
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	1312	1712.4	1	18.48	19.70	1.324	-	-	-0.15	0.543	0.719
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	1513	1752.6	1	18.58	19.70	1.294	-	-	-0.01	0.684	0.885
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	-	DSI4	1413	1732.6	1	22.80	24.00	1.318	-	-	0.03	0.433	0.571
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 1	-	DSI4	1513	1752.6	1	22.77	24.00	1.327	-	-	-0.15	0.378	0.502
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	17.60	19.00	1.380	-	-	0.01	0.831	1.147
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132072	1720	1	17.51	19.00	1.409	-	-	0.03	0.715	1.008
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	132572	1770	1	17.36	19.00	1.459	-	-	-0.08	0.731	1.066
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	17.52	19.00	1.406	-	-	-0.08	0.621	0.873
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132072	1720	1	17.50	19.00	1.413	-	-	0.1	0.556	0.785
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	132572	1770	1	17.29	19.00	1.483	-	-	-0.18	0.602	0.892
	LTE Band 66	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI3	132322	1745	1	17.32	19.00	1.472	-	-	0.1	0.642	0.945
82	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.60	19.00	1.380	-	-	0.04	0.922	**1.273**
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3	132322	1745	1	17.60	19.00	1.380	-	-	0.07	0.900	1.242
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132072	1720	1	17.51	19.00	1.409	-	-	0.12	0.794	1.119
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132572	1770	1	17.36	19.00	1.459	-	-	0.08	0.812	1.185
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.52	19.00	1.406	-	-	-0.17	0.689	0.969
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132072	1720	1	17.50	19.00	1.413	-	-	-0.03	0.618	0.873
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	132572	1770	1	17.29	19.00	1.483	-	-	0.14	0.668	0.990
	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.32	19.00	1.472	-	-	0.11	0.713	1.050
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	132322	1745	1	17.54	19.00	1.400	-	-	0.09	0.748	1.047
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	132322	1745	1	22.92	24.00	1.282	-	-	-0.15	0.592	0.759
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 0	-	DSI4	132322	1745	1	22.92	24.00	1.282	-	-	0.11	0.541	0.694
	LTE Band 66	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	132322	1745	1	18.10	19.30	1.318	-	-	0.11	0.500	0.659
	LTE Band 66	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI3	132322	1745	1	18.06	19.30	1.330	-	-	-0.08	0.416	0.553
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	132322	1745	1	18.10	19.30	1.318	-	-	0.18	0.623	0.821
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	132072	1720	1	18.02	19.30	1.343	-	-	-0.04	0.585	0.786
	LTE Band 66	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	132572	1770	1	18.06	19.30	1.330	-	-	-0.07	0.648	0.862
	LTE Band 66	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	132322	1745	1	18.06	19.30	1.330	-	-	-0.08	0.471	0.627

	LTE Band 66	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI3	132322	1745	1	18.00	19.30	1.349	-	-	0.06	0.459	0.619
	LTE Band 66_Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	132572	1770	1	17.72	19.30	1.439	-	-	-0.01	0.577	0.830
	LTE Band 66	20M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI4	132322	1745	1	22.65	24.00	1.365	-	-	-0.08	0.411	0.561
	LTE Band 66	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI4	132572	1770	1	22.65	24.00	1.365	-	-	-0.17	0.335	0.457
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.01	20.80	1.199	-	-	0.08	0.817	0.980
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	340500	1702.5	1	19.95	20.80	1.216	-	-	0.01	0.853	1.037
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	340500	1702.5	1	19.90	20.80	1.230	-	-	0.03	0.804	0.989
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	20.01	20.80	1.199	-	-	-0.08	0.987	1.184
83	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	19.95	20.80	1.216	-	-	-0.02	1.060	**1.289**
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI3	340500	1702.5	1	19.95	20.80	1.216	-	-	0.09	1.020	1.241
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	340500	1702.5	1	19.90	20.80	1.230	-	-	-0.08	1.000	1.230
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI4	340500	1702.5	1	23.58	24.00	1.102	-	-	-0.08	0.356	0.392
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI4	340500	1702.5	1	23.47	24.00	1.130	-	-	-0.04	0.383	0.433
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	19mm	Ant 0	-	DSI4	340500	1702.5	1	23.58	24.00	1.102	-	-	-0.08	0.315	0.347
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	19mm	Ant 0	-	DSI4	340500	1702.5	1	23.47	24.00	1.130	-	-	0.17	0.323	0.365
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	340500	1702.5	1	21.05	22.20	1.303	-	-	-0.03	0.563	0.734
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	340500	1702.5	1	20.93	22.20	1.340	-	-	-0.03	0.588	0.788
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	340500	1702.5	1	20.95	22.20	1.334	-	-	0.08	0.579	0.772
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	340500	1702.5	1	21.05	22.20	1.303	-	-	-0.07	0.663	0.864
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	340500	1702.5	1	20.93	22.20	1.340	-	-	-0.14	0.682	0.914
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	340500	1702.5	2	20.93	22.20	1.340	-	-	-0.01	0.647	0.867
	FR1 n70	15M	QPSK	75	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	340500	1702.5	1	20.95	22.20	1.334	-	-	0.05	0.678	0.904
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI4	340500	1702.5	1	23.57	24.00	1.104	-	-	0.18	0.222	0.245
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI4	340500	1702.5	1	23.52	24.00	1.117	-	-	-0.04	0.205	0.229
	FR1 n70	15M	QPSK	1	1	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI4	340500	1702.5	1	23.57	24.00	1.104	-	-	-0.08	0.258	0.285
	FR1 n70	15M	QPSK	36	22	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI4	340500	1702.5	1	23.52	24.00	1.117	-	-	-0.13	0.212	0.237
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	349000	1745	1	18.81	19.60	1.199	-	-	0.08	0.862	1.034
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	349000	1745	1	18.77	19.60	1.211	-	-	0.01	1.030	1.247
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	349000	1745	1	18.44	19.60	1.306	-	-	0.03	0.952	1.243
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.81	19.60	1.199	-	-	-0.08	1.010	1.211
84	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.77	19.60	1.211	-	-	0.01	1.070	**1.295**
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	349000	1745	2	18.77	19.60	1.211	-	-	0.06	0.956	1.157
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	Headset	DSI3	349000	1745	1	18.77	19.60	1.211	-	-	0.01	0.915	1.108
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	Headset	DSI3	349000	1745	1	18.77	19.60	1.211	-	-	0.03	0.946	1.145
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.44	19.60	1.306	-	-	-0.08	0.986	1.288
	FR1 n66_Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	349000	1745	1	18.77	19.60	1.211	-	-	0.03	0.841	1.018
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI4	349000	1745	1	23.59	24.00	1.099	-	-	0.08	0.446	0.490
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI4	349000	1745	1	23.21	24.00	1.199	-	-	-0.13	0.445	0.534
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Front	15mm	Ant 0	-	DSI4	349000	1745	1	23.13	24.00	1.222	-	-	0.06	0.431	0.527
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	19mm	Ant 0	-	DSI4	349000	1745	1	23.59	24.00	1.099	-	-	-0.03	0.399	0.439
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	19mm	Ant 0	-	DSI4	349000	1745	1	23.21	24.00	1.199	-	-	-0.03	0.406	0.487
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	349000	1745	1	19.31	19.80	1.119	-	-	-0.11	0.593	0.664
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 1	-	DSI3	349000	1745	1	19.29	19.80	1.125	-	-	-0.12	0.655	0.737
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	349000	1745	1	19.31	19.80	1.119	-	-	-0.16	0.717	0.803
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	349000	1745	1	19.29	19.80	1.125	-	-	-0.1	0.779	0.876
	FR1 n66	40M	QPSK	216	0	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	349000	1745	1	19.24	19.80	1.138	-	-	-0.02	0.775	0.882
	FR1 n66_Main PA	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 1	-	DSI3	349000	1745	1	19.29	19.80	1.125	-	-	0.02	0.703	0.791
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI4	349000	1745	1	23.34	24.00	1.164	-	-	-0.07	0.325	0.378
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Front	15mm	Ant 1	-	DSI4	349000	1745	1	23.26	24.00	1.186	-	-	0.05	0.336	0.398
	FR1 n66	40M	QPSK	1	1	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI4	349000	1745	1	23.34	24.00	1.164	-	-	-0.11	0.209	0.243
	FR1 n66	40M	QPSK	108	54	DFT-SCS-15KHz	Back	19mm	Ant 1	-	DSI4	349000	1745	1	23.26	24.00	1.186	-	-	-0.12	0.235	0.279
1900MHz																							
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI3	661	1880	1	19.66	20.70	1.271	-	-	0.08	0.640	0.813
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI3	512	1850.2	1	19.53	20.70	1.309	-	-	0.01	0.750	0.982
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	5mm	Ant 0	-	DSI3	810	1909.8	1	19.49	20.70	1.321	-	-	0.03	0.452	0.597
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI3	661	1880	1	19.66	20.70	1.271	-	-	-0.08	0.933	1.185

85	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI3	512	1850.2	1	19.53	20.70	1.309	-	-	0.06	0.966	**1.265**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	Headset	DSI3	512	1850.2	1	19.53	20.70	1.309	-	-	0.02	0.942	1.233
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	5mm	Ant 0	-	DSI3	810	1909.8	1	19.49	20.70	1.321	-	-	-0.08	0.673	0.889
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	15mm	Ant 0	-	DSI4	512	1850.2	1	21.56	23.00	1.393	-	-	0.03	0.211	0.294
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	19mm	Ant 0	-	DSI4	512	1850.2	1	21.56	23.00	1.393	-	-	-0.16	0.226	0.315
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	9400	1880	1	16.53	17.70	1.309	-	-	0.08	0.715	0.936
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	9262	1852.4	1	16.36	17.70	1.361	-	-	-0.17	0.706	0.961
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 0	-	DSI3	9538	1907.6	1	16.39	17.70	1.352	-	-	-0.03	0.578	0.781
86	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	9400	1880	1	16.53	17.70	1.309	-	-	0.01	0.958	**1.254**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	Headset	DSI3	9400	1880	1	16.53	17.70	1.309	-	-	0.02	0.934	1.223
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	9262	1852.4	1	16.36	17.70	1.361	-	-	0.14	0.911	1.240
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 0	-	DSI3	9538	1907.6	1	16.39	17.70	1.352	-	-	0.11	0.753	1.018
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	9400	1880	1	22.98	24.00	1.265	-	-	-0.02	0.714	0.903
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	9262	1852.4	1	23.11	24.00	1.227	-	-	0.15	0.695	0.853
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 0	-	DSI4	9538	1907.6	1	23.08	24.00	1.236	-	-	-0.09	0.688	0.850
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 0	-	DSI4	9400	1880	1	22.98	24.00	1.265	-	-	0.11	0.840	1.062
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 0	-	DSI4	9262	1852.4	1	23.11	24.00	1.227	-	-	-0.05	0.822	1.009
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 0	-	DSI4	9538	1907.6	1	23.08	24.00	1.236	-	-	-0.08	0.818	1.011
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	5mm	Ant 1	-	DSI3	9400	1880	1	17.06	17.70	1.159	-	-	0.15	0.548	0.635
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	9400	1880	1	17.06	17.70	1.159	-	-	-0.05	0.697	0.808
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	9262	1852.4	1	17.01	17.70	1.172	-	-	-0.08	0.623	0.730
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	-	DSI3	9538	1907.6	1	16.92	17.70	1.197	-	-	0.08	0.700	0.838
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	15mm	Ant 1	-	DSI4	9400	1880	1	22.61	24.00	1.377	-	-	0.08	0.458	0.631
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	19mm	Ant 1	-	DSI4	9538	1907.6	1	22.51	24.00	1.409	-	-	0.01	0.428	0.603
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	16.44	17.20	1.191	-	-	0.17	0.782	0.932
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26140	1860	1	16.27	17.20	1.239	-	-	-0.05	0.742	0.919
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	26590	1905	1	16.26	17.20	1.242	-	-	0.01	0.623	0.774
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	16.31	17.20	1.227	-	-	0.1	0.642	0.788
	LTE Band 25	20M	QPSK	100	0	-	Front	5mm	Ant 0	-	DSI3	26340	1880	1	16.23	17.20	1.250	-	-	-0.01	0.623	0.779
87	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	16.44	17.20	1.191	-	-	0.05	1.070	**1.275**
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3	26340	1880	1	16.44	17.20	1.191	-	-	0.02	1.020	1.215
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26140	1860	1	16.27	17.20	1.239	-	-	-0.08	0.962	1.192
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	26590	1905	1	16.26	17.20	1.242	-	-	0.05	0.831	1.032
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	16.31	17.20	1.227	-	-	0.06	0.824	1.011
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26140	1860	1	16.24	17.20	1.247	-	-	-0.09	0.831	1.037
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	26590	1905	1	16.09	17.20	1.291	-	-	-0.08	0.653	0.843
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	26340	1880	1	16.23	17.20	1.250	-	-	0.13	0.822	1.028
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	18900	1880	1	16.25	17.20	1.245	-	-	0.08	0.682	0.849
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 0	-	DSI4	26340	1880	1	22.78	24.00	1.324	-	-	0.16	0.701	0.928
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 0	-	DSI4	26340	1880	1	22.78	24.00	1.324	-	-	0.05	0.791	1.048
	LTE Band 25	20M	QPSK	1	0	-	Front	5mm	Ant 1	-	DSI3	26340	1880	1	17.09	18.40	1.352	-	-	0.16	0.515	0.696
	LTE Band 25	20M	QPSK	50	0	-	Front	5mm	Ant 1	-	DSI3	26340	1880	1	17.03	18.40	1.371	-	-	-0.03	0.446	0.611
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	1	17.09	18.40	1.352	-	-	-0.06	0.667	0.902
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	2	17.09	18.40	1.352	-	-	-0.03	0.628	0.849
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26140	1860	1	17.04	18.40	1.368	-	-	0.16	0.641	0.877
	LTE Band 25	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	26590	1905	1	16.91	18.40	1.409	-	-	0.13	0.639	0.901
	LTE Band 25	20M	QPSK	50	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	1	17.03	18.40	1.371	-	-	-0.18	0.507	0.695
	LTE Band 25	20M	QPSK	100	0	-	Back	5mm	Ant 1	-	DSI3	26340	1880	1	17.01	18.40	1.377	-	-	-0.03	0.496	0.683
	LTE Band 2_Other PA	20M	QPSK	1	0	-	Back	5mm	Ant 1	-	DSI3	18900	1880	1	18.02	18.40	1.091	-	-	-0.06	0.564	0.616
	LTE Band 25	20M	QPSK	1	0	-	Front	15mm	Ant 1	-	DSI4	26340	1880	1	22.52	24.00	1.406	-	-	0.05	0.494	0.695
	LTE Band 25	20M	QPSK	1	0	-	Back	19mm	Ant 1	-	DSI4	26340	1880	1	22.52	24.00	1.406	-	-	-0.03	0.461	0.648
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	376500	1882.5	1	18.36	19.30	1.242	-	-	0.19	0.807	1.002
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	376500	1882.5	1	18.33	19.30	1.250	-	-	0.07	0.762	0.953
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Front	5mm	Ant 0	-	DSI3	376500	1882.5	1	18.29	19.30	1.262	-	-	-0.18	0.744	0.939
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	376500	1882.5	1	18.36	19.30	1.242	-	-	0.03	1.020	1.266
88	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Back	5mm	Ant 0	-	DSI3	376500	1882.5	1	18.33	19.30	1.250	-	-	0.01	1.030	**1.288**