FCC SAR Test Report

APPLICANT	: ASUSTeK COMPUTER INC.
EQUIPMENT	: ASUS Phone (Mobile Phone)
BRAND NAME	: ASUS
MODEL NAME	: ASUS_AI2205_E, ASUS_AI2205_F
FCC ID	: MSQAI2205
STANDARD	: FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures 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. (Shenzhen), the test report shall not be reproduced except in full.

Approved by: Si Zhang

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

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA2D3005	Rev. 01	Initial issue of report.	Apr. 14, 2023

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **ASUSTeK COMPUTER INC., ASUS Phone (Mobile Phone), ASUS_AI2205_E, ASUS_AI2205_F,** are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.34	0.59	**0.98**	1.59
		GSM1900	<0.10	1.11	0.40	
	WCDMA	WCDMA II	1.07	1.18	0.38	
		WCDMA IV	0.98	1.02	0.24	
		WCDMA V	0.85	0.58	0.57	
	LTE	LTE Band 2/25	1.12	1.04	0.43	
		LTE Band 4/66	**1.18**	1.15	0.28	
		LTE Band 5/26	1.09	0.69	0.46	
		LTE Band 7	1.16	1.13	0.46	
		LTE Band 12/17	0.92	0.59	0.35	
		LTE Band 30	1.14	0.60	0.12	
		LTE Band 71	1.00	0.52	0.36	
		LTE Band 38/41	1.04	1.01	0.29	
		LTE Band 48	1.02	0.57	0.61	
	5G NR	FR1 n25/2	1.08	1.18	0.52	
		FR1 n26/5	1.12	0.57	0.34	
		FR1 n7	**1.18**	1.18	0.50	
		FR1 n12	1.15	0.55	0.28	
		FR1 n30	1.08	0.36	0.18	
		FR1 n66	1.10	1.00	0.22	
		FR1 n71	1.14	0.37	0.23	
		FR1 n38/41	1.07	0.67	0.26	
		FR1 n48	1.06	0.63	0.42	
		FR1 n77	1.16	**1.19**	0.50	
DTS	WLAN	2.4GHz WLAN	1.09	0.56	0.50	1.59
NII		5GHz WLAN	1.15	0.51	0.92	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.45	0.30	0.10	1.59

Highest 10g SAR Summary				
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
Licensed	GSM	GSM 850	2.51	3.97
		GSM 1900	2.96	
	WCDMA	WCDMA II	3.14	
	LTE	LTE Band 2/25	2.98	
		LTE Band 7	2.85	
		LTE Band 38/41	3.09	
		LTE Band 48	2.73	
	5G NR	FR1 n25/2	3.07	
		FR1 n7	2.71	
		FR1 n48	**3.18**	
		FR1 n77	3.04	
NII	WLAN	5GHz WLAN	2.99	3.97
Date of Testing:			2023/2/8 ~ 2023/4/1	

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

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

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

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant	
Company Name	ASUSTeK COMPUTER INC.
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Manufacturer	
Company Name	ASUSTeK COMPUTER INC.
Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

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	ASUS Phone (Mobile Phone)
Brand Name	ASUS
Model Name	ASUS_AI2205_E, ASUS_AI2205_F
FCC ID	MSQAI2205
IMEI Code	Sample 1: SIM 1 : 355156850101230 SIM 2 : 355156850101248 Sample 2: SIM 1 : 350217060100936 SIM 2 : 350217060100944
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz 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 not supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac/ax VHT20/VHT40/HE20/HE40 WLAN 2.4GHz 802.11be EHT20/EHT40 WLAN 5GHz/6GHz 802.11a/n HT20/HT40 WLAN 5GHz/6GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz/6GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK
HW Version	R2.0
SW Version	Android 13
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

Remark:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function.
4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 10.
5. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
6. The device implements receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E power table and the detail state descriptions of below table.

state	Trigger Conditions	Antenna No.	Exposure conditions	
-	Default power	All Ant	Full power	-
state 6	Receiver on	All Ant	Head Standalone	Head all Position
state 7	Receiver on + WLAN	All Ant	Head Simultaneous	Head all Position
state 8	Hotspot on	All Ant	Hotspot	Body all Position
state 10	Receiver off	All Ant	Body-worn/Extremity Standalone	Body all Position
state 9	Receiver off + WLAN	All Ant	Body-worn/Extremity Simultaneous	Body all Position

7. For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head, body-worn and extremity exposure conditions.
8. This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the GSM, WCDMA, LTE and 5GNR modes. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner and supplemental data for additional information can be referred to section 16 and appendix F.
9. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.
10. This device supports HPUE for LTE Band 41/5GNR n41/n77 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
11. 5G NR n41/n77 HPUE limit to SA mode.
12. For 5GNR n41/n77 HPUE, 5GNR n41/n77 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 test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.

13. 5GNR n41 supports UL MIMO for CP-OFDM modulation.
14. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
15. 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
16. 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.
17. 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.
18. For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
19. The device has two batteries. For battery 1/2 only suppliers are different. So we only choose battery 1 to perform full SAR testing.
20. The device has two bumpers. They have no metallic and do not contain any electronic circuitry. They have no effect on RF exposure, so no need to test with them.
21. There are four samples. The different between them can be referred to the following Sample list table. According to the differences, we choose sample 1 to perform full SAR testing and sample 2 to verify the worst case of sample 1. For sample 3/4, the differences do not affect the test, so sample 3/4 are not tested.
22. The device support additional accessories of AeroActive cooler, this accessory will attach the device to do spot check worst case to ensure the RF Exposures compliance.
23. Bluetooth BR/EDR supportsSISO and MIMO mode.
24. This device has NFC function and the NFC SAR report will be separately submitted.
25. SAR 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.
26. 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
	n25	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30
	n71	FDD	15	5, 10, 15, 20
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n77	TDD	30	20, 30, 40, 50, 60, 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
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20
	n26	FDD	15	5, 10, 15, 20
	n30	FDD	15	5, 10
	n66	FDD	15	5, 10, 15, 20, 30
	n71	FDD	15	5, 10, 15, 20
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	20, 30, 40, 50, 60, 80, 90, 100

Sample list				
	SKU1(Sample 1)	SKU2(Sample 2)	SKU3(Sample 3)	SKU4(Sample 4)
Model name	ASUS_AI2205_F	ASUS_AI2205_E	ASUS_AI2205_F	ASUS_AI2205_E
Config.	US(Pro)	US(Entry)	US(Pro)	US(Entry)
RF module board	US(Pro)	US(Entry)	US(Pro)	US(Entry)
LCD+Touch front frame	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW	AI2205 FRONT CASE ASSY WW
DDR	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B	16G(Micron) Micron / MT62F2G64D8CL-023 WT:B
UFS	512G(Kioxia)(UFS4.0) Kioxia / THGJFJT2T85BAT0	512G(Samsung)(UFS4.0) Samsung /KLUFG8RHHD-B0G1	512G(Kioxia)(UFS4.0) Kioxia / THGJFJT2T85BAT0	512G(Samsung)(UFS4.0) Samsung /KLUFG8RHHD-B0G1
MB	AI2205_MB	AI2205_MB	AI2205_MB	AI2205_MB
Back cover	WW-Dark-Ult	WW-Light-Entry	WW-Dark-Ult	WW-Light-Entry
Battery	SCUD / C21P2101	SWD / C21P2101	SWD / C21P2101	SCUD / C21P2101
Rear Camera 50+13M	SHINETECH/CDN60B	TRIPLEWIN/CASDA-002A1	TRIPLEWIN/CASDA-002A1	SHINETECH/CDN60B
Front Camera 32M	TSPRECISION/TVHF2170	SHINETECH/ST-CMG07B	SHINETECH/ST-CMG07B	TSPRECISION/TVHF2170
Rear Camera 5M	HUNAN KINGCOME/KBFE378	TSPRECISION/TV8F2224	TSPRECISION/TV8F2224	HUNAN KINGCOME/KBFE378
PCB	COMPEQ	COMPEQ	COMPEQ	COMPEQ
CPU	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS	QUALCOMM MPSP1581 / SM-8550 MPSP1581 CS

4.2 Operating Mode for WLAN

General Note:

1. In order to get better user experience, the device implemented the dynamic antenna swapping which based on specific user interaction for WLAN bands.
2. The device has two using scenarios state, one is Normal Mode and the other is Camera Mode. Each mode will be triggered by different detection mechanism to realize the location exchanged by the antenna in different modes.
3. For normal mode, when the device is in default setting, the antenna for Chain1 is adapted on Ant4. For camera mode, when the device detect camera is active, the antenna for Chain1 is adapted on Ant6. Below table will summary of the relationship between mode, antenna location and detection mechanism.

Mode	Antenna	Detection mechanism
Normal Mode	Chain0 is adapted on Ant5 Chain1 is adapted on Ant4	Default setting
Camera Mode	Chain0 is adapted on Ant5 Chain1 is adapted on Ant6	When the device Camera is active

For SAR report, the test mode mentioned as following table.

Bands	Head SAR	Hotspot/Body-worn SAR	Extremity SAR
WLAN/BT	Normal Mode	Normal Mode Camera Mode	Normal Mode Camera Mode

4.3 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>MSQAI2205</td></tr>
<tr><td>Equipment Name</td><td>ASUS Phone (Mobile Phone)</td></tr>
<tr><td>Operating Frequency Range of each LTE transmission band</td><td>LTE Band 2: 1850 MHz ~ 1910 MHz
LTE Band 4: 1710 MHz ~ 1755 MHz
LTE Band 5: 824 MHz ~ 849 MHz
LTE Band 7: 2500 MHz ~ 2570 MHz
LTE Band 12: 699 MHz ~ 716 MHz
LTE Band 17: 704 MHz ~ 716 MHz
LTE Band 25: 1850 MHz ~ 1915 MHz
LTE Band 26: 814 MHz ~ 849 MHz
LTE Band 30: 2305 MHz ~ 2315 MHz
LTE Band 38: 2570 MHz ~ 2620 MHz
LTE Band 41: 2496 MHz ~ 2690 MHz
LTE Band 48: 3550 MHz ~ 3700 MHz
LTE Band 66: 1710 MHz ~ 1780 MHz
LTE Band 71: 663 MHz ~ 698 MHz</td></tr>
<tr><td>Channel Bandwidth</td><td>LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz
LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz
LTE Band 17: 5MHz, 10MHz
LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
LTE Band 30: 5MHz, 10MHz
LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz</td></tr>
<tr><td>uplink modulations used</td><td>QPSK / 16QAM / 64QAM / 256QAM</td></tr>
<tr><td>LTE Voice / Data requirements</td><td>Voice and Data</td></tr>
<tr><td>LTE Release Version</td><td>R15, Cat20</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 12.</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 12.</td></tr>
<tr><td>LTE Carrier Aggregation Additional Information</td><td>1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance.
2. This device supports maximum of 7 carriers in the downlink and 2 carriers in the uplink.</td></tr>
</table>

Transmission (H, M, L) channel numbers and frequencies in each LTE band												
LTE Band 2												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	1855	18675	1857.5	18700	1860
M	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880	18900	1880
H	19193	1909.3	19185	1908.5	19175	1907.5	19150	1905	19125	1902.5	19100	1900
LTE Band 4												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	1715	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5	20175	1732.5
H	20393	1754.3	20385	1753.5	20375	1752.5	20350	1750	20325	1747.5	20300	1745
LTE Band 5												
	Bandwidth 1.4 MHz				Bandwidth 3 MHz				Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7			20415	825.5			20425	826.5	20450	829
M	20525	836.5			20525	836.5			20525	836.5	20525	836.5
H	20643	848.3			20635	847.5			20625	846.5	20600	844
LTE Band 7												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5			20800	2505			20825	2507.5	20850	2510
M	21100	2535			21100	2535			21100	2535	21100	2535
H	21425	2567.5			21400	2565			21375	2562.5	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz				Bandwidth 3 MHz				Bandwidth 5 MHz		Bandwidth 10 MHz	
	Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)			Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7			23025	700.5			23035	701.5	23060	704
M	23095	707.5			23095	707.5			23095	707.5	23095	707.5
H	23173	715.3			23165	714.5			23155	713.5	23130	711
LTE Band 17												
	Bandwidth 5 MHz						Bandwidth 10 MHz					
	Channel #			Freq.(MHz)			Channel #			Freq. (MHz)		
L	23755			706.5			23780			709		
M	23790			710			23790			710		
H	23825			713.5			23800			711		
LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 30												
	Bandwidth 5 MHz						Bandwidth 10 MHz					
	Channel #			Freq.(MHz)			Channel #			Freq.(MHz)		
L	27685			2307.5			27710			2310		
M	27710			2310								
H	27735			2312.5								

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

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

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

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

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

<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 5	Ant 0	26	26	26	26	26	26
LTE Band 26	Ant 0	26	26	26	26	26	26
LTE Band 12	Ant 0	26	26	26	26	26	26
LTE Band 17	Ant 0	26	26	26	26	26	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 2	Ant 1	26	26	24.5	24.5	22.5	26
LTE Band 25	Ant 1	26	26	24.5	24.5	22.5	26
LTE Band 4	Ant 1	26	26	26	26	26	26
LTE Band 66	Ant 1	26	26	26	26	26	26
LTE Band 38	Ant 1	26	26	25	25	24	26
LTE Band 41	Ant 1	26	26	25	25	24	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 2	Ant 2	26	24.5	26	26	24.5	26
LTE Band 25	Ant 2	26	24.5	26	26	24.5	26
LTE Band 4	Ant 2	26	24	26	26	24	26
LTE Band 66	Ant 2	26	24	26	26	24	26
LTE Band 5	Ant 2	26	23	26	26	23	26
LTE Band 26	Ant 2	26	23	26	26	23	26
LTE Band 12	Ant 2	26	24	26	26	24	26
LTE Band 17	Ant 2	26	24	26	26	24	26
LTE Band 38	Ant 2	21.5	18.5	26	26	18.5	26
LTE Band 41	Ant 2	21.5	18.5	26	26	18.5	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 2	Ant 7	21	18	23.5	23.5	18	23.5
LTE Band 25	Ant 7	21	18	23.5	23.5	18	23.5
LTE Band 4	Ant 7	22	19	23.5	23.5	19	23.5
LTE Band 66	Ant 7	22	19	23.5	23.5	19	23.5

<For Inter-band CA>

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 4	Ant 1	23	23	23	23	23	23
LTE Band 66	Ant 1	23	23	23	23	23	23

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 4	Ant 2	23	23	23	23	23	23
LTE Band 66	Ant 2	23	23	23	23	23	23

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
LTE Band 4	Ant 7	18	18	20.5	20.5	18	20.5
LTE Band 66	Ant 7	18	18	20.5	20.5	18	20.5

4.4 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 n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3980 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B5/12/30/66
LTE Anchor Bands for n5	LTE B2/7/30/66
LTE Anchor Bands for n7	LTE B5/66
LTE Anchor Bands for n25	LTE B12
LTE Anchor Bands for n30	LTE B2/5/66
LTE Anchor Bands for n41	LTE B2/66
LTE Anchor Bands for n66	LTE B2/5/7/12/30
LTE Anchor Bands for n71	LTE B2/7/66
LTE Anchor Bands for n77	LTE B2/5/7/12/30/66

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	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510
M	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560

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 25								
	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	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905

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 30MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	345000	1725
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353000	1765

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

NR Band 38						
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	516000	2580	517000	2585	518000	2590
M	519000	2595	519000	2595	519000	2595
H	522000	2610	521000	2605	520000	2600

NR Band 41																		
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

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

	NR Band 77															
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647334	3710.01	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	664666	3969.99	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	662666	3939.99	662332	3934.98	662000	3930

For <3450 MHz ~ 3550 MHz >

	NR Band 77															
	Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634000	3510	633666	3504.99		

<For NR Overlap Bands Description>

1) NR Bands BW

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

2) NR Bands Tune up:

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n5	Ant 0	26	26	26	26	26	26
5G NR n26	Ant 0	26	26	26	26	26	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n2	Ant 1	26	26	25	25	23	26
5G NR n25	Ant 1	26	26	25	25	23	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n2	Ant 2	26	24	26	26	24	26
5G NR n25	Ant 2	26	24	26	26	24	26
5G NR n5	Ant 2	26	23	26	26	23	26
5G NR n26	Ant 2	26	23	26	26	23	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n2	Ant 7	21	18	23.5	23.5	18	23.5
5G NR n25	Ant 7	21	18	23.5	23.5	18	23.5
5G NR n38	Ant 7	19	16	26	26	16	26
5G NR n41	Ant 7	19	16	26	26	16	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n38	Ant 8	26	26	26	26	26	26
5G NR n41	Ant 8	26	26	26	26	26	26

<For NR NSA>

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n2	Ant 1	26	26	25	22.5	22	26
5G NR n25	Ant 1	26	26	25	22.5	22	26

Band	Antenna	state 6 Tune-up Limit	state 7 Tune-up Limit	state 10 Tune-up Limit	state 9 Tune-up Limit	state 8 Tune-up Limit	Default Tune-up Limit
5G NR n2	Ant 2	25	22.5	26	26	22.5	26
5G NR n25	Ant 2	25	22.5	26	26	22.5	26

5. RF Exposure Limits

5.1 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.

5.2 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.

6. Specific Absorption Rate (SAR)

6.1 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.

6.2 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:

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

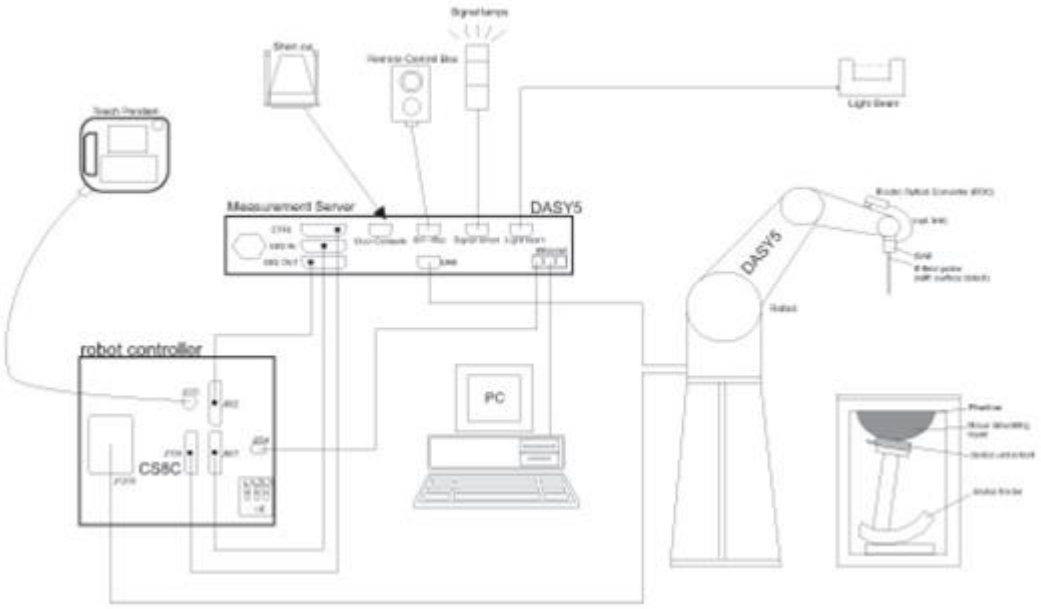
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

7. System Description and Setup

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



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

7.1 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	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 µW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 µW/g)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm

7.2 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.

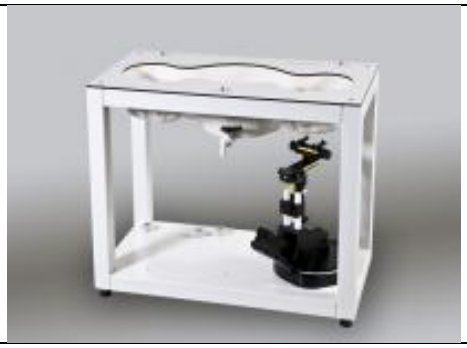
The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Photo of DAE

7.3 Phantom

<SAM Twin Phantom>

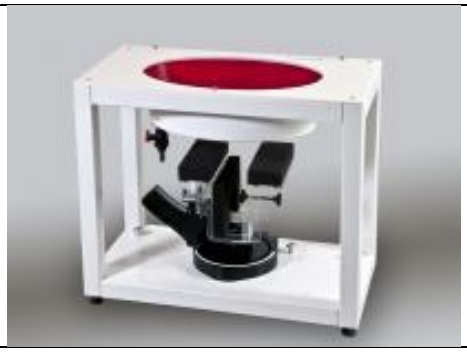
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



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.

7.4 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

8. 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

8.1 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

8.2 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.

8.3 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.	

8.4 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.

8.5 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.

8.6 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.

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1099	Dec. 15, 2021	Dec. 14, 2024
SPEAG	835MHz System Validation Kit	D835V2	4d162	Dec. 17, 2021	Dec. 16, 2024
SPEAG	1750MHz System Validation Kit	D1750V2	1137	Oct. 19, 2021	Oct. 18, 2024
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	Dec. 20, 2021	Dec. 19, 2024
SPEAG	2300MHz System Validation Kit	D2300V2	1056	Oct. 20, 2021	Oct. 19, 2024
SPEAG	2450MHz System Validation Kit	D2450V2	924	Sep. 02, 2020	Aug. 31, 2023
SPEAG	2600MHz System Validation Kit	D2600V2	1070	Dec. 20, 2021	Dec. 19, 2024
SPEAG	3500MHz System Validation Kit	D3500V2	1076	May 09, 2022	May 08, 2023
SPEAG	3700MHz System Validation Kit	D3700V2	1037	May 09, 2022	May 08, 2023
SPEAG	3900MHz System Validation Kit	D3900V2	1022	Aug. 18, 2022	Aug. 17, 2023
SPEAG	5000MHz System Validation Kit	D5GHzV2	1341	Dec. 13, 2021	Dec. 12, 2024
SPEAG	Data Acquisition Electronics	DAE4	1664	May 30, 2022	May 29, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7576	Jul. 28, 2022	Jul. 27, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3826	Aug. 08, 2022	Aug. 07, 2023
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1671	NCR	NCR
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1670	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 07, 2022	Jul. 06, 2023
Anritsu	Radio communication analyzer	MT8820C	6201341952	Dec. 27, 2022	Dec. 26, 2023
Anritsu	Radio communication analyzer	MT8821C	6262314715	Jun. 27, 2022	Jun. 26, 2023
Anritsu	Radio communication analyzer	MT8821C	6272278319	Jun. 27, 2022	Jun. 26, 2023
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Jul. 07, 2022	Jul. 06, 2023
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 17, 2022	Oct. 16, 2023
Speag	Dielectric Assessment KIT	DAK-3.5	1144	Aug. 15, 2022	Aug. 14, 2023
Agilent	Signal Generator	N5181A	MY50145381	Dec. 27, 2022	Dec. 26, 2023
Anritsu	Power Senor	MA2411B	1306099	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Power Meter	ML2495A	1349001	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Power Sensor	MA2411B	1542004	Dec. 27, 2022	Dec. 26, 2023
Anritsu	Power Meter	ML2495A	1339473	Dec. 27, 2022	Dec. 26, 2023
R&S	CBT BLUETOOTH TESTER	CBT	100963	Dec. 27, 2022	Dec. 26, 2023
R&S	Spectrum Analyzer	FSP7	100818	Jul. 07, 2022	Jul. 06, 2023
TES	Hygrometer	1310	200505600	Jul. 12, 2022	Jul. 11, 2023
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 12, 2022	Jul. 11, 2023
Anymetre	Thermo-Hygrometer	JR593	2015030903	Dec. 30, 2022	Dec. 29, 2023
AR	Amplifier	5S1G4	0333096	Note 1	
Mini-Circuits	Amplifier	ZVE-3W-83+	599201528	Note 1	
Mini-Circuits	Amplifier	ZVA-183W-S+	726202215	Note 1	
SPEAG	Device Holder	N/A	N/A	Note 1	
ARRA	Power Divider	A3200-2	N/A	Note 1	
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	
Weinschel	Attenuator 1	3M-10	N/A	Note 1	
Weinschel	Attenuator 2	3M-20	N/A	Note 1	

Note:

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

10. System Verification

10.1 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.

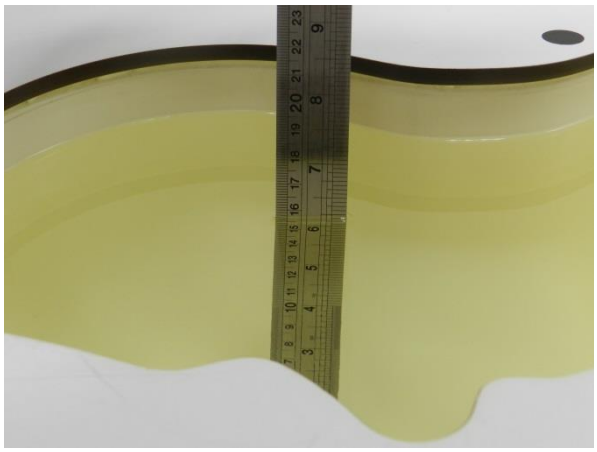


Fig 11.1 Photo of Liquid Height for Head SAR

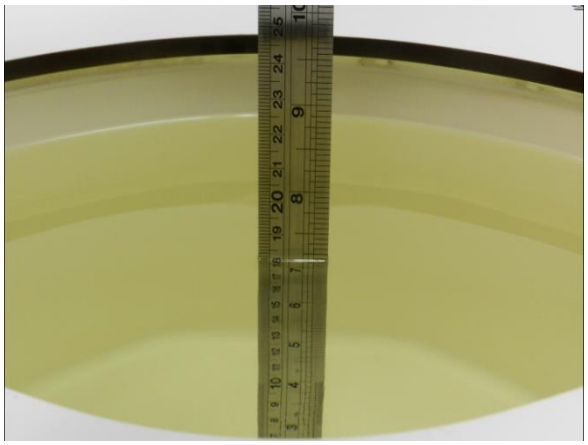


Fig 11.2 Photo of Liquid Height for Body SAR

10.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.2	0.893	41.008	0.89	41.90	0.34	-2.13	±5	2023/2/8
750	Head	22.3	0.890	40.918	0.89	41.90	0.00	-2.34	±5	2023/2/10
750	Head	22.4	0.921	43.464	0.89	41.90	3.48	3.73	±5	2023/2/13
835	Head	22.4	0.928	42.730	0.90	41.50	3.11	2.96	±5	2023/2/12
835	Head	22.3	0.914	41.826	0.90	41.50	1.56	0.79	±5	2023/2/14
835	Head	22.2	0.892	41.638	0.90	41.50	-0.89	0.33	±5	2023/2/15
1750	Head	22.5	1.388	41.364	1.37	40.10	1.31	3.15	±5	2023/2/16
1750	Head	22.4	1.381	40.830	1.37	40.10	0.80	1.82	±5	2023/2/18
1750	Head	22.2	1.334	41.790	1.37	40.10	-2.63	4.21	±5	2023/2/19
1900	Head	22.4	1.445	40.021	1.40	40.00	3.21	0.05	±5	2023/2/20
1900	Head	22.3	1.460	39.248	1.40	40.00	4.29	-1.88	±5	2023/2/22
1900	Head	22.4	1.387	41.154	1.40	40.00	-0.93	2.89	±5	2023/2/23
2300	Head	22.3	1.665	38.837	1.67	39.50	-0.30	-1.68	±5	2023/2/24
2300	Head	22.2	1.689	38.800	1.67	39.50	1.14	-1.77	±5	2023/2/26
2300	Head	22.4	1.683	39.625	1.67	39.50	0.78	0.32	±5	2023/2/27
2450	Head	22.4	1.861	39.575	1.80	39.20	3.39	0.96	±5	2023/2/28
2450	Head	22.5	1.810	37.626	1.80	39.20	0.56	-4.02	±5	2023/3/2
2450	Head	22.4	1.850	38.467	1.80	39.20	2.78	-1.87	±5	2023/3/3
2600	Head	22.2	2.053	38.007	1.96	39.00	4.74	-2.55	±5	2023/3/4
2600	Head	22.4	2.055	38.316	1.96	39.00	4.85	-1.75	±5	2023/3/6
2600	Head	22.4	1.941	37.736	1.96	39.00	-0.97	-3.24	±5	2023/3/7
3500	Head	22.3	2.813	39.758	2.91	37.90	-3.33	4.90	±5	2023/3/8
3500	Head	22.2	2.909	38.635	2.91	37.90	-0.03	1.94	±5	2023/3/10
3500	Head	22.4	2.891	36.555	2.91	37.90	-0.65	-3.55	±5	2023/3/11
3700	Head	22.2	3.199	38.142	3.12	37.70	2.53	1.17	±5	2023/3/12
3700	Head	22.4	3.054	38.374	3.12	37.70	-2.12	1.79	±5	2023/3/14
3700	Head	22.4	3.112	38.554	3.12	37.70	-0.26	2.27	±5	2023/3/15
3900	Head	22.4	3.208	37.743	3.33	37.51	-3.66	0.62	±5	2023/3/16
3900	Head	22.4	3.271	37.765	3.33	37.51	-1.77	0.68	±5	2023/3/18
3900	Head	22.2	3.312	38.414	3.33	37.51	-0.54	2.41	±5	2023/3/19
5250	Head	22.4	4.764	36.965	4.71	35.95	1.15	2.82	±5	2023/3/20
5250	Head	22.3	4.767	36.980	4.71	35.95	1.21	2.87	±5	2023/3/22
5250	Head	22.3	4.488	37.097	4.71	35.95	-4.71	3.19	±5	2023/3/23
5600	Head	22.2	5.207	36.212	5.07	35.50	2.70	2.01	±5	2023/3/24
5600	Head	22.6	5.211	36.228	5.07	35.50	2.78	2.05	±5	2023/3/26
5600	Head	22.3	5.124	35.657	5.07	35.50	1.07	0.44	±5	2023/3/27
5750	Head	22.4	5.382	35.934	5.22	35.35	3.10	1.65	±5	2023/3/28
5750	Head	22.5	5.385	35.954	5.22	35.35	3.16	1.71	±5	2023/3/30
5750	Head	22.5	5.029	35.671	5.22	35.35	-3.66	0.91	±5	2023/4/1

10.3 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 (%)
2023/2/8	750	Head	250	1099	7576	1664	1.970	8.540	7.88	-7.73
2023/2/10	750	Head	250	1099	7576	1664	1.990	8.540	7.96	-6.79
2023/2/13	750	Head	250	1099	7576	1664	2.010	8.540	8.04	-5.85
2023/2/12	835	Head	250	4d162	7576	1664	2.220	9.640	8.88	-7.88
2023/2/14	835	Head	250	4d162	7576	1664	2.280	9.640	9.12	-5.39
2023/2/15	835	Head	250	4d162	7576	1664	2.530	9.640	10.12	4.98
2023/2/16	1750	Head	250	1137	7576	1664	8.480	36.500	33.92	-7.07
2023/2/18	1750	Head	250	1137	7576	1664	8.400	36.500	33.6	-7.95
2023/2/19	1750	Head	250	1137	7576	1664	8.520	36.500	34.08	-6.63
2023/2/20	1900	Head	250	5d182	7576	1664	9.290	39.600	37.16	-6.16
2023/2/22	1900	Head	250	5d182	7576	1664	9.260	39.600	37.04	-6.46
2023/2/23	1900	Head	250	5d182	7576	1664	9.330	39.600	37.32	-5.76
2023/2/24	2300	Head	250	1056	3826	1664	11.300	48.800	45.2	-7.38
2023/2/26	2300	Head	250	1056	3826	1664	11.500	48.800	46	-5.74
2023/2/27	2300	Head	250	1056	3826	1664	11.500	48.800	46	-5.74
2023/2/28	2450	Head	250	924	7576	1664	11.900	51.400	47.6	-7.39
2023/3/2	2450	Head	250	924	7576	1664	12.300	51.400	49.2	-4.28
2023/3/3	2450	Head	250	924	7576	1664	12.000	51.400	48	-6.61
2023/3/4	2600	Head	250	1070	7576	1664	13.200	56.200	52.8	-6.05
2023/3/6	2600	Head	250	1070	7576	1664	13.600	56.200	54.4	-3.20
2023/3/7	2600	Head	250	1070	7576	1664	13.800	56.200	55.2	-1.78
2023/3/8	3500	Head	100	1076	7576	1664	6.230	66.200	62.3	-5.89
2023/3/10	3500	Head	100	1076	7576	1664	6.310	66.200	63.1	-4.68
2023/3/11	3500	Head	100	1076	7576	1664	6.440	66.200	64.4	-2.72
2023/3/12	3700	Head	100	1037	7576	1664	6.510	66.700	65.1	-2.40
2023/3/14	3700	Head	100	1037	7576	1664	6.210	66.700	62.1	-6.90
2023/3/15	3700	Head	100	1037	7576	1664	6.340	66.700	63.4	-4.95
2023/3/16	3900	Head	100	1022	7576	1664	6.350	66.400	63.5	-4.37
2023/3/18	3900	Head	100	1022	7576	1664	6.410	66.400	64.1	-3.46
2023/3/19	3900	Head	100	1022	7576	1664	6.560	66.400	65.6	-1.20
2023/3/20	5250	Head	100	1341	7576	1664	7.610	80.700	76.1	-5.70
2023/3/22	5250	Head	100	1341	7576	1664	7.790	80.700	77.9	-3.47
2023/3/23	5250	Head	100	1341	7576	1664	7.490	80.700	74.9	-7.19
2023/3/24	5600	Head	100	1341	7576	1664	7.860	84.500	78.6	-6.98
2023/3/26	5600	Head	100	1341	7576	1664	8.020	84.500	80.2	-5.09
2023/3/27	5600	Head	100	1341	7576	1664	8.310	84.500	83.1	-1.66
2023/3/28	5750	Head	100	1341	7576	1664	7.540	80.600	75.4	-6.45
2023/3/30	5750	Head	100	1341	7576	1664	7.460	80.600	74.6	-7.44
2023/4/1	5750	Head	100	1341	7576	1664	7.560	80.600	75.6	-6.20

<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 (%)
2023/2/8	750	Head	250	1099	7576	1664	1.300	5.650	5.2	-7.96
2023/2/10	750	Head	250	1099	7576	1664	1.320	5.650	5.28	-6.55
2023/2/13	750	Head	250	1099	7576	1664	1.530	5.650	6.12	8.32
2023/2/12	835	Head	250	4d162	7576	1664	1.480	6.260	5.92	-5.43
2023/2/14	835	Head	250	4d162	7576	1664	1.540	6.260	6.16	-1.60
2023/2/15	835	Head	250	4d162	7576	1664	1.690	6.260	6.76	7.99
2023/2/16	1750	Head	250	1137	7576	1664	4.480	19.200	17.92	-6.67
2023/2/18	1750	Head	250	1137	7576	1664	4.450	19.200	17.8	-7.29
2023/2/19	1750	Head	250	1137	7576	1664	4.510	19.200	18.04	-6.04
2023/2/20	1900	Head	250	5d182	7576	1664	4.730	20.200	18.92	-6.34
2023/2/22	1900	Head	250	5d182	7576	1664	4.690	20.200	18.76	-7.13
2023/2/23	1900	Head	250	5d182	7576	1664	4.710	20.200	18.84	-6.73
2023/2/24	2300	Head	250	1056	3826	1664	5.420	22.800	21.68	-4.91
2023/2/26	2300	Head	250	1056	3826	1664	5.340	22.800	21.36	-6.32
2023/2/27	2300	Head	250	1056	3826	1664	5.430	22.800	21.72	-4.74
2023/2/28	2450	Head	250	924	7576	1664	5.600	24.000	22.4	-6.67
2023/3/2	2450	Head	250	924	7576	1664	5.580	24.000	22.32	-7.00
2023/3/3	2450	Head	250	924	7576	1664	5.860	24.000	23.44	-2.33
2023/3/4	2600	Head	250	1070	7576	1664	5.670	24.600	22.68	-7.80
2023/3/6	2600	Head	250	1070	7576	1664	5.690	24.600	22.76	-7.48
2023/3/7	2600	Head	250	1070	7576	1664	5.840	24.600	23.36	-5.04
2023/3/8	3500	Head	100	1076	7576	1664	2.360	25.500	23.6	-7.45
2023/3/10	3500	Head	100	1076	7576	1664	2.410	25.500	24.1	-5.49
2023/3/11	3500	Head	100	1076	7576	1664	2.520	25.500	25.2	-1.18
2023/3/12	3700	Head	100	1037	7576	1664	2.560	24.600	25.6	4.07
2023/3/14	3700	Head	100	1037	7576	1664	2.310	24.600	23.1	-6.10
2023/3/15	3700	Head	100	1037	7576	1664	2.330	24.600	23.3	-5.28
2023/3/16	3900	Head	100	1022	7576	1664	2.280	23.700	22.8	-3.80
2023/3/18	3900	Head	100	1022	7576	1664	2.240	23.700	22.4	-5.49
2023/3/19	3900	Head	100	1022	7576	1664	2.190	23.700	21.9	-7.59
2023/3/20	5250	Head	100	1341	7576	1664	2.440	23.100	24.4	5.63
2023/3/22	5250	Head	100	1341	7576	1664	2.420	23.100	24.2	4.76
2023/3/23	5250	Head	100	1341	7576	1664	2.450	23.100	24.5	6.06
2023/3/24	5600	Head	100	1341	7576	1664	2.210	24.000	22.1	-7.92
2023/3/26	5600	Head	100	1341	7576	1664	2.350	24.000	23.5	-2.08
2023/3/27	5600	Head	100	1341	7576	1664	2.330	24.000	23.3	-2.92
2023/3/28	5750	Head	100	1341	7576	1664	2.110	22.700	21.1	-7.05
2023/3/30	5750	Head	100	1341	7576	1664	2.090	22.700	20.9	-7.93
2023/4/1	5750	Head	100	1341	7576	1664	2.130	22.700	21.3	-6.17

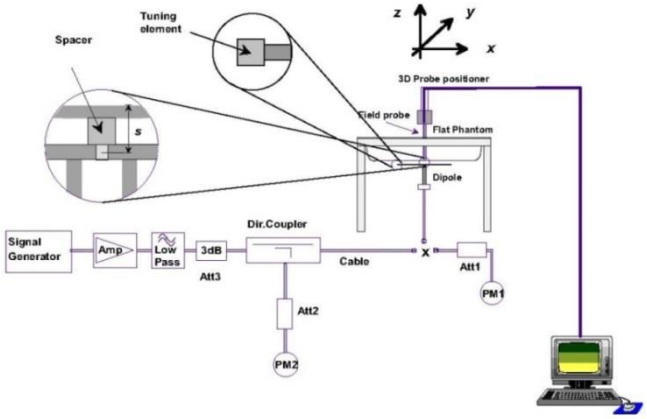


Fig 11.3.1 System Performance Check Setup

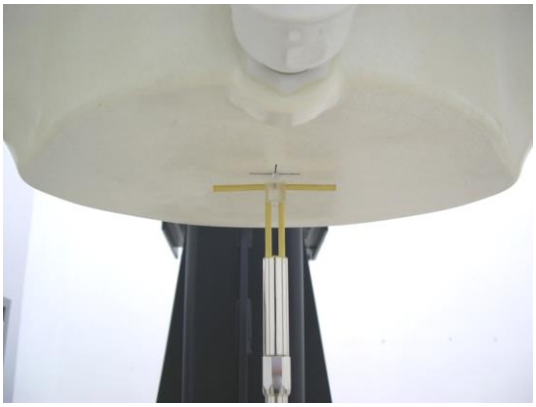


Fig 11.3.2 Setup Photo

11. RF Exposure Positions

11.1 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.

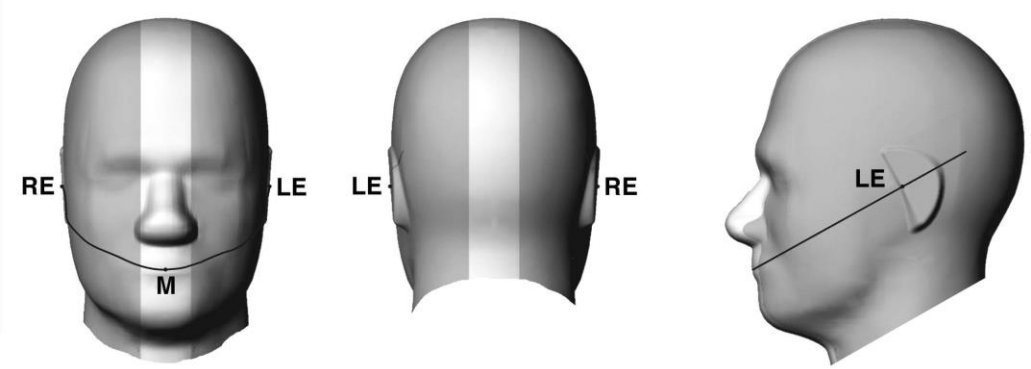


Fig 12.1.1 Front, back, and side views of SAM twin phantom

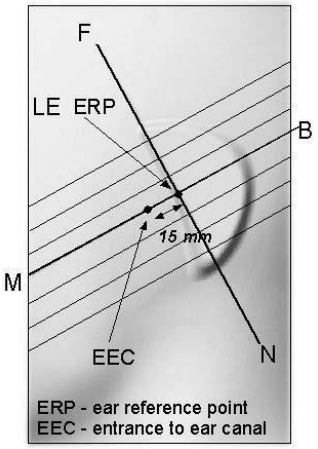


Fig 12.1.2 Close-up side view of phantom showing the ear region.

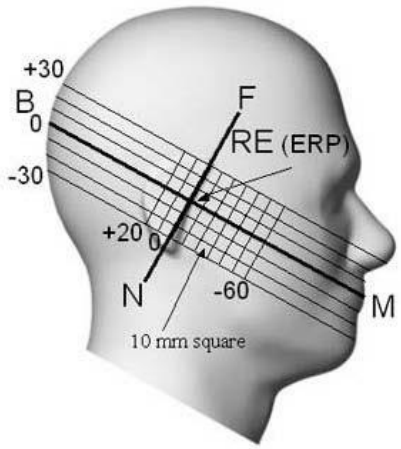


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

11.2 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.

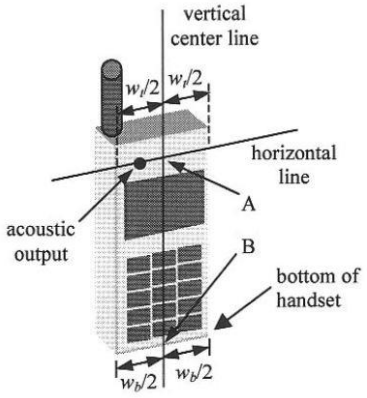


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

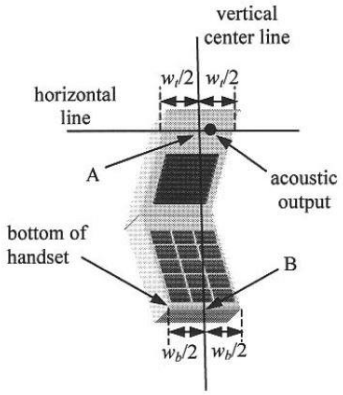


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

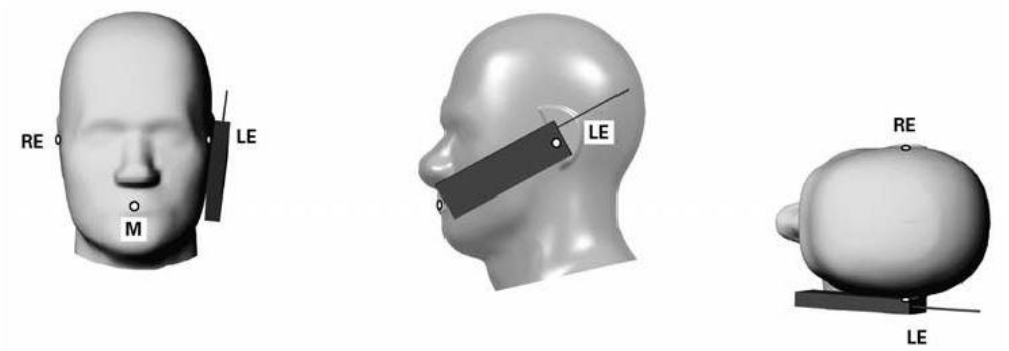


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

11.3 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

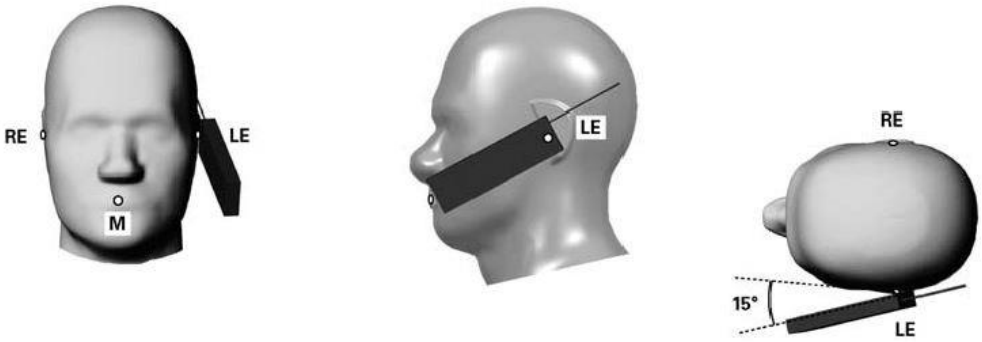


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

11.4 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.

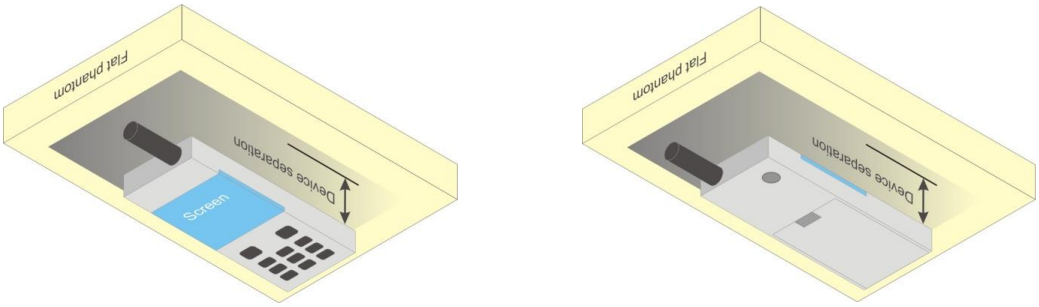


Fig 12.4 Body Worn Position

11.5 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.

11.6 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.

12. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

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

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

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

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

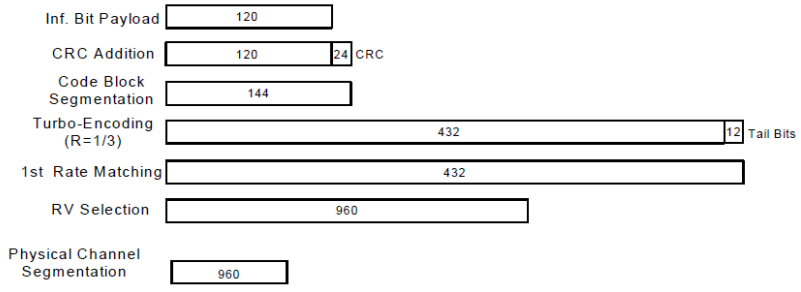


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

<WCDMA Conducted Power>

General Note:

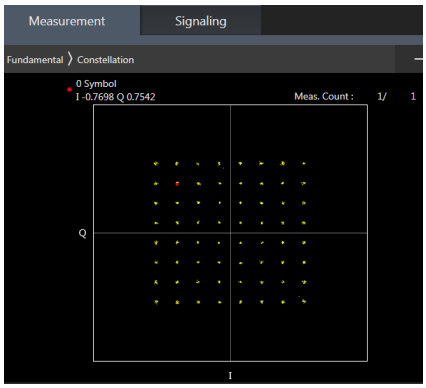
1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is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

<LTE Conducted Power>

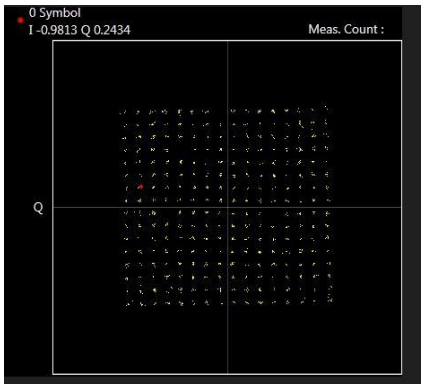
General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B2 / B4 / B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 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.

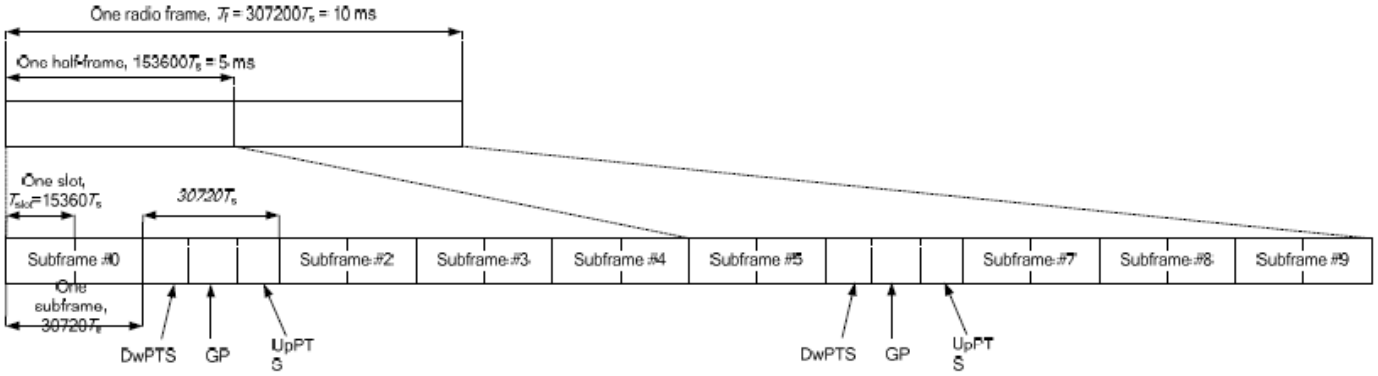


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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>

General Note:

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

2CC Downlink Carrier Aggregation			3CC Downlink Carrier Aggregation			4CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_12A-12A	3CC-13	1	CA_12A-30A-66A	4CC-1	1	CA_12A-30A-66A-66A	5CC-4
2	CA_12A-25A		2	CA_12A-66A-66A	4CC-1	2	CA_12B-66A-66A	5CC-5
3	CA_12A-30A	3CC-14	3	CA_12A-66C	4CC-10	3	CA_25A-25A-26A-41A	
4	CA_12A-66A	3CC-2	4	CA_12B-66A	4CC-11	4	CA_25A-25A-41C	5CC-1
5	CA_12B	3CC-4	5	CA_25A-25A-25A		5	CA_25A-26A-41C	5CC-1
6	CA_25A-25A	3CC-5	6	CA_25A-25A-26A	4CC-3	6	CA_25A-41D	5CC-2
7	CA_25A-26A	3CC-6	7	CA_25A-25A-41A	4CC-3	7	CA_29A-30A-66A-66A	
8	CA_25A-41A	3CC-8	8	CA_25A-26A-41A	4CC-3	8	CA_2A-12A-30A-66A	5CC-4
9	CA_26A-41A	3CC-8	9	CA_25A-41C	4CC-4	9	CA_2A-12A-66A-66A	5CC-4
10	CA_29A-30A	3CC-11	10	CA_26A-41C	4CC-5	10	CA_2A-12A-66C	
11	CA_29A-66A	3CC-12	11	CA_29A-30A-66A	4CC-12	11	CA_2A-12B-66A	5CC-5
12	CA_2A-12A	3CC-13	12	CA_29A-66A-66A	4CC-13	12	CA_2A-29A-30A-66A	5CC-9
13	CA_2A-29A	3CC-17	13	CA_2A-12A-12A	4CC-14	13	CA_2A-29A-66A-66A	5CC-10
14	CA_2A-2A	3CC-19	14	CA_2A-12A-30A	4CC-15	14	CA_2A-2A-12A-12A	
15	CA_2A-30A	3CC-17	15	CA_2A-12A-66A	4CC-16	15	CA_2A-2A-12A-30A	5CC-6
16	CA_2A-48A	3CC-28	16	CA_2A-12B	4CC-17	16	CA_2A-2A-12A-66A	5CC-7
17	CA_2A-4A	3CC-22	17	CA_2A-29A-30A	4CC-18	17	CA_2A-2A-12B	5CC-8
18	CA_2A-5A	3CC-23	18	CA_2A-29A-66A	4CC-19	18	CA_2A-2A-29A-30A	5CC-9
19	CA_2A-66A	3CC-24	19	CA_2A-2A-12A	4CC-21	19	CA_2A-2A-29A-66A	5CC-10
20	CA_2A-71A	3CC-25	20	CA_2A-2A-29A	4CC-19	20	CA_2A-2A-30A-66A	5CC-11
21	CA_2A-7A	3CC-26	21	CA_2A-2A-30A	4CC-20	21	CA_2A-2A-4A-12A	
22	CA_2C	3CC-52	22	CA_2A-2A-4A	4CC-22	22	CA_2A-2A-4A-4A	
23	CA_30A-66A	3CC-27	23	CA_2A-2A-5A	4CC-23	23	CA_2A-2A-4A-5A	
24	CA_41A-41A	3CC-58	24	CA_2A-2A-66A	4CC-20	24	CA_2A-2A-4A-71A	
25	CA_41A-48A		25	CA_2A-2A-71A	4CC-24	25	CA_2A-2A-5A-30A	5CC-11
26	CA_41C	3CC-9	26	CA_2A-2A-7A	4CC-24	26	CA_2A-2A-5A-66A	5CC-12
27	CA_48A-48A	3CC-28	27	CA_2A-30A-66A	4CC-20	27	CA_2A-2A-5B	5CC-15
28	CA_48A-66A	3CC-29	28	CA_2A-48A-48A	4CC-32	28	CA_2A-2A-66A-66A	5CC-12
29	CA_48A-71A	3CC-62	29	CA_2A-48A-66A	4CC-32	29	CA_2A-2A-66B	5CC-16
30	CA_48B		30	CA_2A-48C	4CC-33	30	CA_2A-2A-66C	5CC-17
31	CA_48C	3CC-30	31	CA_2A-4A-12A	4CC-21	31	CA_2A-30A-66A-66A	5CC-4
32	CA_4A-12A	3CC-31	32	CA_2A-4A-29A	4CC-40	32	CA_2A-48A-48A-66A	
33	CA_4A-29A	3CC-32	33	CA_2A-4A-30A	4CC-38	33	CA_2A-48A-48C	5CC-18
34	CA_4A-30A	3CC-33	34	CA_2A-4A-4A	4CC-22	34	CA_2A-48A-66A-66A	5CC-40
35	CA_4A-48A		35	CA_2A-4A-5A	4CC-23	35	CA_2A-48C-66A	5CC-18
36	CA_4A-4A	3CC-34	36	CA_2A-4A-71A	4CC-24	36	CA_2A-48D	5CC-21
37	CA_4A-5A	3CC-35	37	CA_2A-4A-7A		37	CA_2A-4A-12A-12A	
38	CA_4A-71A	3CC-36	38	CA_2A-5A-30A	4CC-25	38	CA_2A-4A-12A-30A	
39	CA_4A-7A	3CC-37	39	CA_2A-5A-48A	4CC-47	39	CA_2A-4A-12B	
40	CA_5A-25A		40	CA_2A-5A-66A	4CC-49	40	CA_2A-4A-29A-30A	
41	CA_5A-29A		41	CA_2A-5A-7A		41	CA_2A-4A-4A-12A	
42	CA_5A-30A	3CC-38	42	CA_2A-5B	4CC-54	42	CA_2A-4A-4A-5A	
43	CA_5A-38A		43	CA_2A-66A-66A	4CC-49	43	CA_2A-4A-5A-30A	
44	CA_5A-41A		44	CA_2A-66A-71A	4CC-56	44	CA_2A-4A-5B	

45	CA_5A-48A	3CC-39	45	CA_2A-66B	4CC-50	45	CA_2A-4A-7C	
46	CA_5A-5A	3CC-89	46	CA_2A-66C	4CC-51	46	CA_2A-5A-30A-66A	5CC-11
47	CA_5A-66A	3CC-93	47	CA_2A-7A-12A		47	CA_2A-5A-48A-66A	5CC-40
48	CA_5A-7A	3CC-93	48	CA_2A-7A-29A		48	CA_2A-5A-48C	
49	CA_5B	3CC-42	49	CA_2A-7A-66A		49	CA_2A-5A-66A-66A	5CC-12
50	CA_66A-66A	3CC-43	50	CA_2A-7A-7A	4CC-108	50	CA_2A-5A-66B	5CC-13
51	CA_66A-71A	3CC-44	51	CA_2A-7C	4CC-52	51	CA_2A-5A-66C	5CC-14
52	CA_66B	3CC-45	52	CA_2C-12A	4CC-64	52	CA_2A-5A-7C	5CC-41
53	CA_66C	3CC-46	53	CA_2C-29A	4CC-65	53	CA_2A-5B-30A	5CC-24
54	CA_7A-12A	3CC-47	54	CA_2C-30A	4CC-64	54	CA_2A-5B-66A	5CC-15
55	CA_7A-26A	3CC-108	55	CA_2C-5A	4CC-66	55	CA_2A-66A-66A-66A	
56	CA_7A-29A	3CC-109	56	CA_2C-66A	4CC-67	56	CA_2A-66A-66A-71A	
57	CA_7A-66A	3CC-107	57	CA_30A-66A-66A	4CC-1	57	CA_2A-66A-66B	5CC-16
58	CA_7A-7A	3CC-117	58	CA_41A-41A-41A		58	CA_2A-66A-66C	5CC-17
59	CA_7B		59	CA_41A-41C	4CC-68	59	CA_2A-66C-71A	
60	CA_7C	3CC-51	60	CA_41D	4CC-69	60	CA_2A-66D	
61	CA_2A-26A	3CC-113	61	CA_48A-48A-66A	4CC-72	61	CA_2A-7A-7A-29A	
62	CA_25A-66A	3CC-114	62	CA_48A-48A-71A		62	CA_2A-7C-29A	
63	CA_7A-25A	3CC-117	63	CA_48A-48C	4CC-75	63	CA_2A-7C-66A	5CC-41
			64	CA_48A-66A-66A	4CC-72	64	CA_2C-12A-30A	
			65	CA_48A-66B	4CC-73	65	CA_2C-29A-30A	
			66	CA_48A-66C	4CC-74	66	CA_2C-5A-30A	
			67	CA_48C-66A	4CC-75	67	CA_2C-66A-66A	
			68	CA_48C-71A		68	CA_41A-41A-41C	
			69	CA_48D	4CC-76	69	CA_41A-41D	
			70	CA_4A-12A-12A	4CC-37	70	CA_41C-41C	
			71	CA_4A-12A-30A	4CC-85	71	CA_41E	5CC-3
			72	CA_4A-12B	4CC-86	72	CA_48A-48A-66A-66A	
			73	CA_4A-29A-30A	4CC-87	73	CA_48A-48A-66B	
			74	CA_4A-48C		74	CA_48A-48A-66C	
			75	CA_4A-4A-12A	4CC-84	75	CA_48A-48C-66A	5CC-18
			76	CA_4A-4A-29A	4CC-87	76	CA_48A-48D	5CC-19
			77	CA_4A-4A-30A	4CC-85	77	CA_48C-48C	5CC-20
			78	CA_4A-4A-5A	4CC-88	78	CA_48C-66A-66A	
			79	CA_4A-4A-71A		79	CA_48C-66B	5CC-30
			80	CA_4A-4A-7A		80	CA_48C-66C	5CC-31
			81	CA_4A-5A-30A	4CC-88	81	CA_48D-66A	5CC-21
			82	CA_4A-5B	4CC-90	82	CA_48E	5CC-22
			83	CA_4A-7A-12A		83	CA_4A-48D	
			84	CA_4A-7A-7A		84	CA_4A-4A-12A-12A	
			85	CA_4A-7C	4CC-45	85	CA_4A-4A-12A-30A	
			86	CA_5A-30A-66A	4CC-91	86	CA_4A-4A-12B	
			87	CA_5A-48A-66A	4CC-107	87	CA_4A-4A-29A-30A	
			88	CA_5A-48C	4CC-92	88	CA_4A-4A-5A-30A	
			89	CA_5A-5A-66A	4CC-94	89	CA_4A-4A-5B	
			90	CA_5A-66A-66A	4CC-94	90	CA_4A-5B-30A	
			91	CA_5A-66B	4CC-95	91	CA_5A-30A-66A-66A	5CC-23
			92	CA_5A-66C	4CC-96	92	CA_5A-48C-66A	
			93	CA_5A-7A-66A	4CC-66	93	CA_5A-48D	
			94	CA_5A-7A-7A	4CC-110	94	CA_5A-5A-66A-66A	
			95	CA_5A-7C	4CC-100	95	CA_5A-5A-66B	
			96	CA_5B-30A	4CC-101	96	CA_5A-5A-66C	
			97	CA_5B-66A	4CC-102	97	CA_5A-66A-66B	
			98	CA_66A-66A-66A	4CC-55	98	CA_5A-66A-66C	
			99	CA_66A-66A-71A	4CC-56	99	CA_5A-66D	
			100	CA_66A-66B	4CC-97	100	CA_5A-7C-66A	5CC-41

			101	CA_66A-66C	4CC-98	101	CA_5B-30A-66A	5CC-24
			102	CA_66C-71A	4CC-59	102	CA_5B-66A-66A	5CC-25
			103	CA_66D	4CC-99	103	CA_5B-66B	5CC-26
			104	CA_7A-12A-66A		104	CA_5B-66C	5CC-27
			105	CA_7A-12B		105	CA_7C-29A-66A	
			106	CA_7A-29A-66A		106	CA_7C-66A-66A	
			107	CA_7A-66A-66A		107	CA_5A-48A-66A-66A	5CC-40
			108	CA_7A-7A-26A		108	CA_2A-2A-7A-7A	
			109	CA_7A-7A-29A	4CC-61	109	CA_2A-2A-7C	
			110	CA_7A-7A-66A	4CC-110	110	CA_5A-7A-7A-66A	
			111	CA_7C-29A	4CC-105	111	CA_7C-25A-25A	5CC-42
			112	CA_7C-66A	4CC-106	112	CA_7C-25A-66A	5CC-42
			113	CA_2A-7A-26A				
			114	CA_25A-25A-66A				
			115	CA_7A-25A-25A				
			116	CA_7A-25A-66A				
			117	CA_7A-7A-25A				
			118	CA_7C-25A	4CC-112			

5CC Downlink Carrier Aggregation			6CC Downlink Carrier Aggregation			7CC Downlink Carrier Aggregation		
Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset	Number	Combination	Covered by Measurement Superset
1	CA_25A-25A-26A-41C		1	CA_2A-48E-66A		1	CA_2A-5A-48D-66A-66A	
2	CA_25A-25A-41D		2	CA_2A-5A-48D-66A	7CC-1			
3	CA_25A-41E		3	CA_2A-48D-66A-66A	7CC-1			
4	CA_2A-12A-30A-66A-66A		4	CA_5A-48D-66A-66A	7CC-1			
5	CA_2A-12B-66A-66A							
6	CA_2A-2A-12A-30A-66A							
7	CA_2A-2A-12A-66A-66A							
8	CA_2A-2A-12B-66A							
9	CA_2A-2A-29A-30A-66A							
10	CA_2A-2A-29A-66A-66A							
11	CA_2A-2A-5A-30A-66A							
12	CA_2A-2A-5A-66A-66A							
13	CA_2A-2A-5A-66B							
14	CA_2A-2A-5A-66C							
15	CA_2A-2A-5B-66A							
16	CA_2A-2A-66A-66B							
17	CA_2A-2A-66A-66C							
18	CA_2A-48A-48C-66A							
19	CA_2A-48A-48D							
20	CA_2A-48C-48C							
21	CA_2A-48D-66A	6CC-3						
22	CA_2A-48E	6CC-1						
23	CA_2A-5A-30A-66A-66A							
24	CA_2A-5B-30A-66A							
25	CA_2A-5B-66A-66A							
26	CA_2A-5B-66B							
27	CA_2A-5B-66C							
28	CA_2C-5B-30A							
29	CA_41C-41D							
30	CA_48A-48C-66B							
31	CA_48A-48C-66C							
32	CA_48A-48D-66A							
33	CA_48A-48E							
34	CA_48C-48C-66A							
35	CA_48C-48D							
36	CA_48E-66A	6CC-1						
37	CA_4A-48E							
38	CA_5B-30A-66A-66A							
39	CA_5B-66A-66B							
40	CA_2A-5A-48A-66A-66A							
41	CA_2A-5A-7C-66A							
42	CA_7C-25A-25A-66A							

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

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

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA Intra-band	2CC Uplink Carrier Aggregation
CA 2C	Ant 1/2
CA 5B	Ant 0/2
CA 7C	Ant 1/2
CA 41C	Ant 1/2
CA 48C	Ant 8/9
CA 66B	Ant 1/2
CA 66C	Ant 1/2

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B2/5/7/41/48/66 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.

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

iii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

iv. Additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

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

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	Antenna Tx		Antenna Tx		Antenna Tx	
Inter-Band	PCC	SCC	PCC	SCC	PCC	SCC
CA_2A-12A	1	0	2	0	1	2
CA_2A-4A	1	7	2	7	/	/
CA_2A-5A	1	0	2	0	1	2
CA_2A-7A	7	1	7	2	/	/
CA_2A-30A	7	1	7	2	/	/
CA_2A-66A	1	7	2	7	/	/
CA_4A-12A	1	0	2	0	1	2
CA_4A-5A	1	0	2	0	1	2
CA_4A-30A	7	1	7	2	/	/
CA_4A-7A	7	1	7	2	/	/
CA_5A-7A	0	1	2	1	0	2
CA_5A-30A	0	1	2	1	0	2
CA_5A-66A	0	1	2	1	0	2
CA_12A-30A	0	1	2	1	0	2
CA_12A-66A	0	1	2	1	0	2
CA_30A-66A	1	7	2	7	/	/

General Note:

1. For Inter-band CA co-located SAR analysis is performed using standalone SAR summed together and they are more conservatively for inter band CA.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n25/n30/n66/n71/n41/n77 is NSA mode.
2. 5G NR n2/n5/n7/n12/n25/n26/n30/n66/n71/n38/n41/n48/n77 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. This device supports HPUE for 5GNR n41/n77 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
5. 5G NR n41/n77 HPUE limit to SA mode.
6. For 5GNR n41/n77 HPUE, 5GNR n41/n77 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 test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
7. 5GNR n41 supports UL MIMO for CP-OFDM modulation.
8. 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.
9. 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.
10. 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.
11. 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.
12. For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.

<3GPP 38.101 MPR for EN-DC>

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

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

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

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

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

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

EN-DC UL (FR1)	Main Tx		Div Ant		Div Ant	
	LTE Ant	NR Ant	LTE Ant	NR Ant	LTE Ant	NR Ant
DC_5A_n2A	0	1	2	1	0	2
DC_5A_n7A	0	1	2	1	0	2
DC_5A_n30A	0	7	2	7	/	/
DC_5A_n66A	0	1	2	1	0	2
DC_5A_n77A	0	8	2	7	/	/
DC_2A_n5A	1	0	2	0	1	2
DC_2A_n30A	1	7	2	7	/	/
DC_2A_n66A	1	7	2	7	/	/
DC_2A_n71A	1	0	2	0	1	2
DC_2A_n77A	1	8	2	7	/	/
DC_2A_n41A	1	8	2	7	/	/
DC_7A_n5A	1	0	2	0	1	2
DC_7A_n66A	1	7	2	7	/	/
DC_7A_n71A	1	0	2	0	1	2
DC_7A_n77A	1	8	2	7	/	/
DC_12A_n2A	0	1	2	1	0	2
DC_12A_n66A	0	1	2	1	0	2
DC_12A_n77A	0	8	2	7	/	/
DC_12A_n25A	0	1	2	1	0	2
DC_30A_n2A	1	7	2	7	/	/
DC_30A_n5A	1	0	2	0	1	2
DC_30A_n66A	1	7	2	7	/	/
DC_30A_n77A	1	8	2	7	/	/
DC_66A_n2A	1	7	2	7	/	/
DC_66A_n5A	1	0	2	0	1	2
DC_66A_n7A	7	1	7	2	/	/
DC_66A_n30A	1	7	2	7	/	/
DC_66A_n71A	1	0	2	0	1	2
DC_66A_n77A	1	8	2	7	/	/
DC_66A_n41A	1	8	2	7	/	/

NR UL MIMO Bands Configuration:

NR UL MIMO	TX Ant	TX Ant
FR1 n41	Ant1/2	Ant7/8

<WLAN Conducted Power>

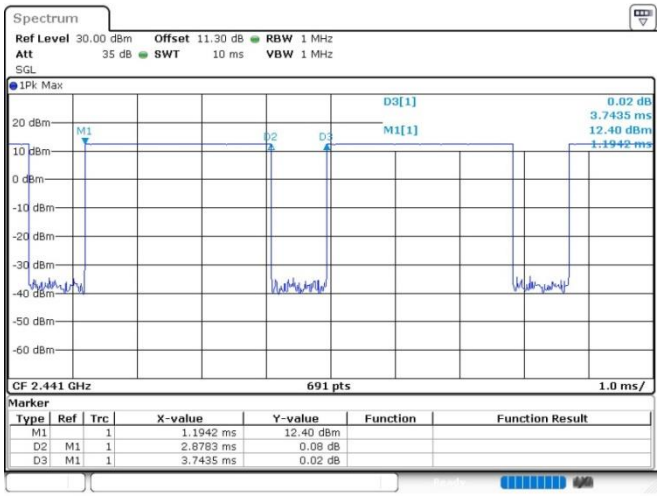
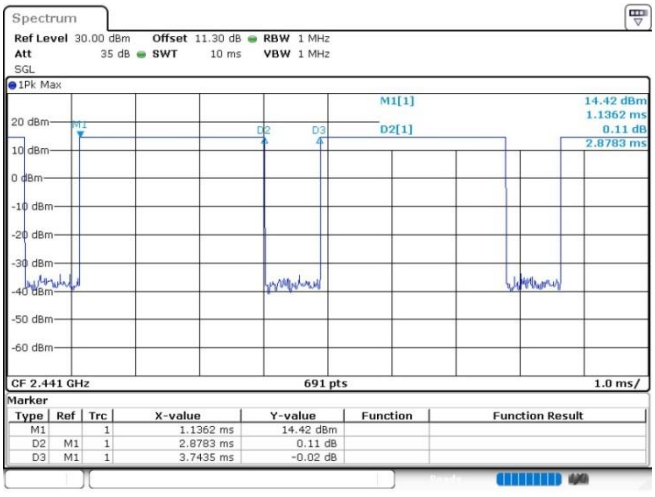
General Note:

1. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6W/kg and SAR peak to location ratio ≤ 0.04, no additional SAR measurements for MIMO.
2. 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.
3. 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.
4. 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).
5. 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.
6. 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.
7. 802.11ax/be supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
8. When multiple transmission modes (802.11a/g/n/ac/ax/be) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac then 802.11ax then 802.11be or 802.11g is chosen over 802.11n.
9. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.

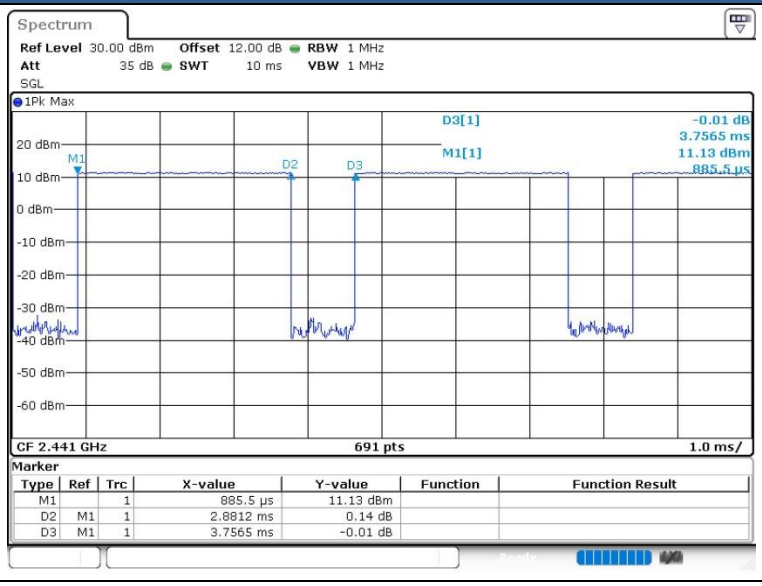
<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.89% for Ant4/5, and 76.70% for Ant6 as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation

Bluetooth time-domain plot for Ant4	Bluetooth time-domain plot for Ant5
	

Bluetooth time-domain plot for Ant6



13. Antenna Location

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

14. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For SAR testing of BT/WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
   c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
   e. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
   f. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
   - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
   - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
   - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G&5G and Wi-Fi antennas accordingly. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
5. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.
6. This device supports HPUE for LTE Band 41/5GNR n41/n77 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
7. 5G NR n41/n77 HPUE limit to SA mode.
8. For 5GNR n41/n77 HPUE, 5GNR n41/n77 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 test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
9. 5GNR n41 supports UL MIMO for CP-OFDM modulation. The DFT-s-OFDM modulation power level is higher than CP-OFDM modulation power level, therefore, all UL MIMO SAR tests are performed by using high power SAR to represent low power SAR conservatively.
10. 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.
11. 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.
12. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
13. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction

for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.

14. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
    a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II, LTE Band 2/7/25/38/41/48, 5GNR n2/n7/n25/n48/n77, WLAN5.2/5.8GHz, therefore product specific 10g SAR is necessary.
    b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
    c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
15. The following table “n/a” in the result means the SAR cube is too small to be found.

GSM Note:

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

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2 / B4 /B5 / B17 / B38 SAR test was covered by 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 /n12/n26/n66/n71/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. When multiple transmission modes (802.11a/g/n/ac/ax/be) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac then 802.11ax then 802.11be or 802.11g is chosen over 802.11n.
7. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO and MIMO mode.

Power status description：

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

Exposure Condition	Power State
Head SAR-Standalone	State 6
Head SAR- Simultaneous	State 7
Body worn/ Extremity(Handheld) SAR-Standalone	State 10
Body worn/ Extremity(Handheld) SAR- Simultaneous	State 9
Hotspot SAR	State 8

14.1 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	State 6/7	133297	680.5	1	24.47	26.00	1.422	-	-	-0.12	0.062	0.088
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6/7	133297	680.5	1	24.47	26.00	1.422	-	-	0.06	0.047	0.067
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6/7	133297	680.5	1	24.47	26.00	1.422	-	-	-0.05	0.059	0.084
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6/7	133297	680.5	1	24.47	26.00	1.422	-	-	-0.17	0.044	0.063
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	State 6/7	133297	680.5	1	23.42	25.00	1.439	-	-	-0.11	0.051	0.073
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	State 6/7	133297	680.5	1	23.42	25.00	1.439	-	-	0.03	0.034	0.049
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	State 6/7	133297	680.5	1	23.42	25.00	1.439	-	-	-0.07	0.049	0.071
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	State 6/7	133297	680.5	1	23.42	25.00	1.439	-	-	-0.11	0.031	0.045
01	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	133297	680.5	1	24.47	26.00	1.422	-	-	-0.19	0.703	**1.000**
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	133297	680.5	1	24.47	26.00	1.422	-	-	0.06	0.135	0.192
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	133297	680.5	1	24.47	26.00	1.422	-	-	0.03	0.534	0.760
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	133297	680.5	1	24.47	26.00	1.422	-	-	-0.12	0.106	0.151
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	133297	680.5	1	23.42	25.00	1.439	-	-	-0.18	0.511	0.735
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	133297	680.5	1	23.42	25.00	1.439	-	-	0.02	0.110	0.158
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	133297	680.5	1	23.42	25.00	1.439	-	-	-0.08	0.391	0.563
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	133297	680.5	1	23.42	25.00	1.439	-	-	-0.13	0.089	0.128
	LTE Band 71	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	State 6	133297	680.5	1	23.30	25.00	1.479	-	-	-0.11	0.504	0.745
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	133297	680.5	1	22.03	23.50	1.403	-	-	0.14	0.345	0.484
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	133297	680.5	1	22.03	23.50	1.403	-	-	0.07	0.075	0.105
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	133297	680.5	1	22.03	23.50	1.403	-	-	0.08	0.305	0.428
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	133297	680.5	1	22.03	23.50	1.403	-	-	0.11	0.061	0.086
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	133297	680.5	1	20.94	22.50	1.432	-	-	-0.12	0.273	0.391
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	133297	680.5	1	20.94	22.50	1.432	-	-	-0.04	0.062	0.089
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	133297	680.5	1	20.94	22.50	1.432	-	-	-0.13	0.264	0.378
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	133297	680.5	1	20.94	22.50	1.432	-	-	0.01	0.050	0.072
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-	-	-0.17	0.021	0.028
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-	-	-0.03	0.013	0.017
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-	-	-0.06	0.016	0.022
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-	-	-0.13	0.014	0.018
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-	-	-0.1	0.018	0.025
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-	-	0.02	0.012	0.017
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-	-	-0.07	0.014	0.019
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-	-	-0.17	0.013	0.018
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	136100	680.5	1	24.82	26.00	1.312	-	-	-0.18	0.781	1.025
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	136100	680.5	1	24.82	26.00	1.312	-	-	0.04	0.150	0.197
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	136100	680.5	1	24.82	26.00	1.312	-	-	-0.06	0.715	0.938
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	136100	680.5	1	24.82	26.00	1.312	-	-	-0.16	0.119	0.156
02	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	136100	680.5	1	24.61	26.00	1.377	-	-	-0.04	0.829	**1.142**
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	136100	680.5	1	24.61	26.00	1.377	-	-	0.03	0.166	0.229
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	136100	680.5	1	24.61	26.00	1.377	-	-	-0.06	0.731	1.007
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	136100	680.5	1	24.61	26.00	1.377	-	-	-0.17	0.135	0.186
	FR1 n71	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 2	State 6	136100	680.5	1	23.63	25.00	1.371	-	-	-0.02	0.599	0.821
	FR1 n71	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	Ant 2	State 6	136100	680.5	1	23.63	25.00	1.371	-	-	-0.11	0.554	0.759
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	136100	680.5	1	21.45	23.00	1.429	-	-	-0.17	0.342	0.489
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	136100	680.5	1	21.45	23.00	1.429	-	-	0.16	0.065	0.093
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	136100	680.5	1	21.45	23.00	1.429	-	-	-0.05	0.315	0.450
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	136100	680.5	1	21.45	23.00	1.429	-	-	-0.04	0.061	0.087
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	136100	680.5	1	21.44	23.00	1.432	-	-	0.08	0.352	0.504
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	136100	680.5	1	21.44	23.00	1.432	-	-	-0.06	0.084	0.120
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	136100	680.5	1	21.44	23.00	1.432	-	-	-0.01	0.327	0.468

	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	136100	680.5	1	21.44	23.00	1.432	-	-	-0.08	0.075	0.107
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-	-	-0.08	0.120	0.167
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-	-	-0.04	0.062	0.086
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-	-	-0.02	0.085	0.118
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-	-	-0.17	0.053	0.074
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-	-	-0.15	0.099	0.137
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-	-	-0.02	0.052	0.072
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-	-	-0.04	0.071	0.098
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-	-	-0.16	0.042	0.058
03	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	23095	707.5	1	24.57	26.00	1.390	-	-	-0.14	0.663	**0.922**
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	23095	707.5	1	24.57	26.00	1.390	-	-	0.04	0.136	0.189
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	23095	707.5	1	24.57	26.00	1.390	-	-	0.03	0.526	0.731
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	23095	707.5	1	24.57	26.00	1.390	-	-	-0.12	0.101	0.140
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6	23095	707.5	1	23.58	25.00	1.387	-	-	-0.11	0.516	0.716
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6	23095	707.5	1	23.58	25.00	1.387	-	-	0.02	0.109	0.151
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6	23095	707.5	1	23.58	25.00	1.387	-	-	0.01	0.446	0.618
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6	23095	707.5	1	23.58	25.00	1.387	-	-	-0.17	0.087	0.121
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	23095	707.5	1	23.50	25.00	1.413	-	-	0.05	0.489	0.691
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	23095	707.5	1	22.63	24.00	1.371	-	-	0.19	0.418	0.573
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	23095	707.5	1	22.63	24.00	1.371	-	-	0.12	0.096	0.132
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	23095	707.5	1	22.63	24.00	1.371	-	-	0.17	0.409	0.561
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	23095	707.5	1	22.63	24.00	1.371	-	-	-0.16	0.077	0.106
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 7	23095	707.5	1	21.65	23.00	1.365	-	-	-0.18	0.359	0.490
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 7	23095	707.5	1	21.65	23.00	1.365	-	-	0.19	0.080	0.109
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 7	23095	707.5	1	21.65	23.00	1.365	-	-	0.01	0.343	0.468
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 7	23095	707.5	1	21.65	23.00	1.365	-	-	0.08	0.066	0.090
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	141500	707.5	1	24.45	26.00	1.429	-	-	-0.08	0.122	0.174
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	141500	707.5	1	24.45	26.00	1.429	-	-	0.04	0.069	0.099
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	141500	707.5	1	24.45	26.00	1.429	-	-	0.03	0.077	0.110
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	141500	707.5	1	24.45	26.00	1.429	-	-	-0.09	0.051	0.073
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	141500	707.5	1	24.26	26.00	1.493	-	-	-0.15	0.131	0.196
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	141500	707.5	1	24.26	26.00	1.493	-	-	0.04	0.071	0.106
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	141500	707.5	1	24.26	26.00	1.493	-	-	-0.08	0.076	0.113
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	141500	707.5	1	24.26	26.00	1.493	-	-	-0.17	0.052	0.078
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	141500	707.5	1	24.45	26.00	1.429	-	-	-0.14	0.759	1.085
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	141500	707.5	1	24.45	26.00	1.429	-	-	-0.02	0.159	0.227
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	141500	707.5	1	24.45	26.00	1.429	-	-	0.05	0.723	1.033
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	141500	707.5	1	24.45	26.00	1.429	-	-	-0.15	0.147	0.210
04	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 2	State 6	141500	707.5	1	24.26	26.00	1.493	-	-	-0.12	0.768	**1.146**
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 2	State 6	141500	707.5	2	24.26	26.00	1.493	-	-	-0.12	0.755	1.127
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 2	State 6	141500	707.5	1	24.26	26.00	1.493	-	-	0.04	0.179	0.267
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 2	State 6	141500	707.5	1	24.26	26.00	1.493	-	-	-0.04	0.756	1.129
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 2	State 6	141500	707.5	1	24.26	26.00	1.493	-	-	-0.16	0.147	0.219
	FR1 n12	15M	QPSK	75	0	DFT-15	Right Cheek	0mm	Ant 2	State 6	141500	707.5	1	23.25	25.00	1.496	-	-	0.01	0.554	0.829
	FR1 n12	15M	QPSK	75	0	DFT-15	Left Cheek	0mm	Ant 2	State 6	141500	707.5	1	23.25	25.00	1.496	-	-	0.06	0.506	0.757
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	141500	707.5	1	21.35	23.00	1.462	-	-	0.17	0.342	0.500
	FR1 n12	15M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	141500	707.5	1	21.35	23.00	1.462	-	-	-0.11	0.084	0.123
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	141500	707.5	1	21.35	23.00	1.462	-	-	0.03	0.308	0.450
	FR1 n12	15M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	141500	707.5	1	21.35	23.00	1.462	-	-	-0.01	0.075	0.110
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Cheek	0mm	Ant 2	State 7	141500	707.5	1	21.31	23.00	1.476	-	-	-0.08	0.358	0.528
	FR1 n12	15M	QPSK	36	22	DFT-15	Right Tilted	0mm	Ant 2	State 7	141500	707.5	1	21.31	23.00	1.476	-	-	0.16	0.095	0.140
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Cheek	0mm	Ant 2	State 7	141500	707.5	1	21.31	23.00	1.476	-	-	-0.02	0.314	0.463
	FR1 n12	15M	QPSK	36	22	DFT-15	Left Tilted	0mm	Ant 2	State 7	141500	707.5	1	21.31	23.00	1.476	-	-	-0.19	0.081	0.120
835MHz																					
05	GSM850					GPRS(2 Tx slots)	Right Cheek	0mm	Ant 0	State 6/7	251	848.8	1	33.18	34.50	1.355	-	-	-0.14	0.251	**0.340**
	GSM850					GPRS(2 Tx	Right Tilted	0mm	Ant 0	State 6/7	251	848.8	1	33.18	34.50	1.355	-	-	-0.01	0.127	0.172

						slots)															
	GSM850					GPRS(2 Tx slots)	Left Cheek	0mm	Ant 0	State 6/7	251	848.8	1	33.18	34.50	1.355	-	-	-0.02	0.111	0.150
	GSM850					GPRS(2 Tx slots)	Left Tilted	0mm	Ant 0	State 6/7	251	848.8	1	33.18	34.50	1.355	-	-	-0.15	0.089	0.121
	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 0	State 6/7	4182	836.4	1	25.06	26.00	1.242	-	-	-0.08	0.158	0.196
	WCDMA V					RMC 12.2Kbps	Right Tilted	0mm	Ant 0	State 6/7	4182	836.4	1	25.06	26.00	1.242	-	-	-0.04	0.082	0.102
	WCDMA V					RMC 12.2Kbps	Left Cheek	0mm	Ant 0	State 6/7	4182	836.4	1	25.06	26.00	1.242	-	-	-0.05	0.072	0.089
	WCDMA V					RMC 12.2Kbps	Left Tilted	0mm	Ant 0	State 6/7	4182	836.4	1	25.06	26.00	1.242	-	-	-0.18	0.054	0.067
06	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 6	4182	836.4	1	23.98	25.00	1.265	-	-	-0.06	0.673	**0.851**
	WCDMA V					RMC 12.2Kbps	Right Tilted	0mm	Ant 2	State 6	4182	836.4	1	23.98	25.00	1.265	-	-	0.01	0.142	0.180
	WCDMA V					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	4182	836.4	1	23.98	25.00	1.265	-	-	-0.02	0.636	0.804
	WCDMA V					RMC 12.2Kbps	Left Tilted	0mm	Ant 2	State 6	4182	836.4	1	23.98	25.00	1.265	-	-	-0.09	0.109	0.138
	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 6	4132	826.4	1	23.92	25.00	1.282	-	-	0.06	0.635	0.814
	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 6	4233	846.6	1	23.95	25.00	1.274	-	-	-0.01	0.651	0.829
	WCDMA V					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	4132	826.4	1	23.92	25.00	1.282	-	-	-0.14	0.606	0.777
	WCDMA V					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	4233	846.6	1	23.95	25.00	1.274	-	-	0.03	0.588	0.749
	WCDMA V					RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 7	4182	836.4	1	22.37	23.50	1.297	-	-	-0.16	0.460	0.597
	WCDMA V					RMC 12.2Kbps	Right Tilted	0mm	Ant 2	State 7	4182	836.4	1	22.37	23.50	1.297	-	-	0.13	0.107	0.139
	WCDMA V					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 7	4182	836.4	1	22.37	23.50	1.297	-	-	-0.06	0.367	0.476
	WCDMA V					RMC 12.2Kbps	Left Tilted	0mm	Ant 2	State 7	4182	836.4	1	22.37	23.50	1.297	-	-	0.07	0.087	0.113
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6/7	26865	831.5	1	24.30	26.00	1.479	-	-	-0.14	0.095	0.141
	LTE Band 5B	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6/7	20575 +20476	841.5 +831.6	2	24.19	26.00	1.517	-	-	0.01	0.093	0.141
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6/7	26865	831.5	1	24.30	26.00	1.479	-	-	0.04	0.050	0.074
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6/7	26865	831.5	1	24.30	26.00	1.479	-	-	0.03	0.048	0.071
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6/7	26865	831.5	1	24.30	26.00	1.479	-	-	-0.14	0.042	0.062
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	State 6/7	26865	831.5	1	23.32	25.00	1.472	-	-	-0.12	0.082	0.121
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	State 6/7	26865	831.5	1	23.32	25.00	1.472	-	-	-0.02	0.047	0.069
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	State 6/7	26865	831.5	1	23.32	25.00	1.472	-	-	-0.04	0.046	0.068
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	State 6/7	26865	831.5	1	23.32	25.00	1.472	-	-	-0.16	0.039	0.057
07	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	26865	831.5	1	24.30	26.00	1.479	-	-	-0.15	0.738	**1.092**
	LTE Band 5B	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	20575 +20476	841.5 +831.6	2	24.19	26.00	1.517	-	-	-0.12	0.620	0.941
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	26865	831.5	1	24.30	26.00	1.479	-	-	0.02	0.124	0.183
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	26865	831.5	1	24.30	26.00	1.479	-	-	-0.04	0.697	1.031
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	26865	831.5	1	24.30	26.00	1.479	-	-	-0.1	0.099	0.146
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 2	State 6	26865	831.5	1	23.32	25.00	1.472	-	-	-0.13	0.514	0.757
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 2	State 6	26865	831.5	1	23.32	25.00	1.472	-	-	-0.01	0.108	0.159
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 2	State 6	26865	831.5	1	23.32	25.00	1.472	-	-	-0.07	0.489	0.720
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 2	State 6	26865	831.5	1	23.32	25.00	1.472	-	-	-0.15	0.086	0.127
	LTE Band 26	15M	QPSK	75	0	-	Right Cheek	0mm	Ant 2	State 6	26865	831.5	1	23.27	25.00	1.489	-	-	0.05	0.489	0.728
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 2	State 6	26865	831.5	1	23.27	25.00	1.489	-	-	0.11	0.465	0.693
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	26865	831.5	1	21.38	23.00	1.452	-	-	0.17	0.387	0.562
	LTE Band 5B	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	20575 +20476	841.5 +831.6	2	21.12	23.00	1.542	-	-	0.13	0.330	0.509
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	26865	831.5	1	21.38	23.00	1.452	-	-	0.1	0.073	0.106
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	26865	831.5	1	21.38	23.00	1.452	-	-	-0.12	0.348	0.505
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	26865	831.5	1	21.38	23.00	1.452	-	-	0.01	0.062	0.090
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 2	State 7	26865	831.5	1	20.34	22.00	1.466	-	-	-0.03	0.286	0.419
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 2	State 7	26865	831.5	1	20.34	22.00	1.466	-	-	0.1	0.060	0.088
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 2	State 7	26865	831.5	1	20.34	22.00	1.466	-	-	0.05	0.282	0.413
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 2	State 7	26865	831.5	1	20.34	22.00	1.466	-	-	0.16	0.050	0.073
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	166300	831.5	1	24.77	26.00	1.327	-	-	-0.12	0.054	0.072
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	166300	831.5	1	24.77	26.00	1.327	-	-	0.06	0.035	0.046
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	166300	831.5	1	24.77	26.00	1.327	-	-	-0.01	0.027	0.036
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	166300	831.5	1	24.77	26.00	1.327	-	-	-0.13	0.021	0.028
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	166300	831.5	1	24.32	26.00	1.472	-	-	-0.14	0.066	0.097
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	166300	831.5	1	24.32	26.00	1.472	-	-	0.04	0.037	0.054
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	166300	831.5	1	24.32	26.00	1.472	-	-	-0.05	0.029	0.043

	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	166300	831.5	1	24.32	26.00	1.472	-	-	-0.1	0.023	0.034
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	166300	831.5	1	24.77	26.00	1.327	-	-	-0.1	0.742	0.985
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	166300	831.5	1	24.77	26.00	1.327	-	-	-0.02	0.174	0.231
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	166300	831.5	1	24.77	26.00	1.327	-	-	-0.07	0.722	0.958
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	166300	831.5	1	24.77	26.00	1.327	-	-	-0.15	0.146	0.194
08	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	166300	831.5	1	24.32	26.00	1.472	-	-	-0.02	0.763	**1.123**
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	166300	831.5	1	24.32	26.00	1.472	-	-	-0.04	0.184	0.271
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	166300	831.5	1	24.32	26.00	1.472	-	-	0.01	0.755	1.112
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	166300	831.5	1	24.32	26.00	1.472	-	-	-0.09	0.153	0.225
	FR1 n26	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 2	State 6	166300	831.5	1	23.32	25.00	1.472	-	-	0.02	0.622	0.916
	FR1 n26	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	Ant 2	State 6	166300	831.5	1	23.32	25.00	1.472	-	-	-0.1	0.598	0.880
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	166300	831.5	1	21.67	23.00	1.358	-	-	0.15	0.357	0.485
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	166300	831.5	1	21.67	23.00	1.358	-	-	-0.19	0.084	0.114
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	166300	831.5	1	21.67	23.00	1.358	-	-	-0.17	0.354	0.481
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	166300	831.5	1	21.67	23.00	1.358	-	-	0.13	0.074	0.101
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	166300	831.5	1	21.65	23.00	1.365	-	-	-0.02	0.416	0.568
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	166300	831.5	1	21.65	23.00	1.365	-	-	-0.17	0.092	0.126
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	166300	831.5	1	21.65	23.00	1.365	-	-	-0.05	0.371	0.506
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	166300	831.5	1	21.65	23.00	1.365	-	-	-0.1	0.084	0.115
1750MHz																					
	WCDMA IV					RMC 12.2Kbps	Right Cheek	0mm	Ant 1	State 6/7	1413	1732.6	1	25.04	26.00	1.247	-	-	0.05	0.009	0.011
	WCDMA IV					RMC 12.2Kbps	Right Tilted	0mm	Ant 1	State 6/7	1413	1732.6	1	25.04	26.00	1.247	-	-	0.04	0.005	0.006
	WCDMA IV					RMC 12.2Kbps	Left Cheek	0mm	Ant 1	State 6/7	1413	1732.6	1	25.04	26.00	1.247	-	-	-0.05	0.012	0.015
	WCDMA IV					RMC 12.2Kbps	Left Tilted	0mm	Ant 1	State 6/7	1413	1732.6	1	25.04	26.00	1.247	-	-	-0.07	0.006	0.007
	WCDMA IV					RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 6	1413	1732.6	1	25.04	26.00	1.247	-	-	-0.07	0.388	0.484
	WCDMA IV					RMC 12.2Kbps	Right Tilted	0mm	Ant 2	State 6	1413	1732.6	1	25.04	26.00	1.247	-	-	0.05	0.190	0.237
	WCDMA IV					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	1413	1732.6	1	25.04	26.00	1.247	-	-	-0.11	0.650	0.811
	WCDMA IV					RMC 12.2Kbps	Left Tilted	0mm	Ant 2	State 6	1413	1732.6	1	25.04	26.00	1.247	-	-	0.02	0.191	0.238
	WCDMA IV					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	1312	1712.4	1	24.84	26.00	1.306	-	-	0.03	0.606	0.792
09	WCDMA IV					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	1513	1752.6	1	24.81	26.00	1.315	-	-	-0.01	0.742	**0.976**
	WCDMA IV					RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 7	1413	1732.6	1	22.37	23.50	1.297	-	-	-0.18	0.196	0.254
	WCDMA IV					RMC 12.2Kbps	Right Tilted	0mm	Ant 2	State 7	1413	1732.6	1	22.37	23.50	1.297	-	-	0.13	0.075	0.097
	WCDMA IV					RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 7	1413	1732.6	1	22.37	23.50	1.297	-	-	-0.06	0.260	0.337
	WCDMA IV					RMC 12.2Kbps	Left Tilted	0mm	Ant 2	State 7	1413	1732.6	1	22.37	23.50	1.297	-	-	-0.14	0.080	0.104
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	-	-	0.05	0.013	0.016
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	-	-	0.12	0.005	0.006
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	-	-	0.02	0.030	0.038
	LTE Band 66C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322 +132520	1745 +1764.8	2	24.85	26.00	1.303	-	-	0.01	0.020	0.026
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	-	-	0.017	0.007	0.009
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	-	-	0.04	0.010	0.013
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	-	-	-0.02	0.004	0.005
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	-	-	-0.08	0.024	0.030
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	-	-	0.07	0.006	0.008
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-	-	-0.13	0.461	0.579
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-	-	0.01	0.171	0.215
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-	-	-0.09	0.694	0.872
	LTE Band 66C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132322 +132520	1745 +1764.8	2	24.85	26.00	1.303	-	-	0.01	0.598	0.779
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-	-	-0.02	0.186	0.234
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132072	1720	1	24.98	26.00	1.265	-	-	-0.04	0.635	0.803
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132572	1770	1	24.87	26.00	1.297	-	-	-0.18	0.611	0.793
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-	-	-0.13	0.334	0.420
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-	-	0.02	0.138	0.174
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-	-	-0.04	0.496	0.624
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-	-	-0.14	0.152	0.191
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	State 6	132322	1745	1	23.95	25.00	1.274	-	-	0.06	0.475	0.605
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	132322	1745	1	23.09	24.00	1.233	-	-	-0.19	0.232	0.286

	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	132322	1745	1	23.09	24.00	1.233	-	-	-0.19	0.096	0.118
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	132322	1745	1	23.09	24.00	1.233	-	-	-0.04	0.370	0.456
	LTE Band 66C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	132322 +132520	1745 +1764.8	2	22.92	24.00	1.282	-	-	0.06	0.268	0.344
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	132322	1745	1	23.09	24.00	1.233	-	-	0.08	0.104	0.128
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	132322	1745	1	22.08	23.00	1.236	-	-	0.11	0.187	0.231
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	132322	1745	1	22.08	23.00	1.236	-	-	0.08	0.075	0.093
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	132322	1745	1	22.08	23.00	1.236	-	-	-0.11	0.269	0.332
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	132322	1745	1	22.08	23.00	1.236	-	-	-0.15	0.084	0.104
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	132322	1745	1	20.24	22.00	1.500	-	-	-0.13	0.765	1.147
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6	132322	1745	1	20.24	22.00	1.500	-	-	-0.02	0.401	0.601
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6	132322	1745	1	20.24	22.00	1.500	-	-	-0.15	0.296	0.444
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6	132322	1745	1	20.24	22.00	1.500	-	-	0.01	0.180	0.270
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	132072	1720	1	20.17	22.00	1.524	-	-	-0.07	0.755	1.151
10	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	132572	1770	1	20.22	22.00	1.507	-	-	-0.01	0.781	**1.177**
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	132572	1770	2	20.22	22.00	1.507	-	-	-0.01	0.585	0.881
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	132322	1745	1	19.23	21.00	1.503	-	-	-0.08	0.612	0.920
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6	132322	1745	1	19.23	21.00	1.503	-	-	0.02	0.310	0.466
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 6	132322	1745	1	19.23	21.00	1.503	-	-	-0.18	0.229	0.344
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 6	132322	1745	1	19.23	21.00	1.503	-	-	0.06	0.139	0.209
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	132072	1720	1	19.14	21.00	1.535	-	-	0.01	0.637	0.978
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	132572	1770	1	19.22	21.00	1.507	-	-	-0.15	0.650	0.979
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 7	State 6	132322	1745	1	19.21	21.00	1.510	-	-	0.03	0.625	0.944
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 7	132322	1745	1	17.48	19.00	1.419	-	-	-0.09	0.362	0.514
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 7	132322	1745	1	17.48	19.00	1.419	-	-	-0.13	0.201	0.285
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 7	132322	1745	1	17.48	19.00	1.419	-	-	-0.14	0.148	0.210
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 7	132322	1745	1	17.48	19.00	1.419	-	-	0.12	0.081	0.115
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 7	132322	1745	1	16.33	18.00	1.469	-	-	-0.07	0.288	0.423
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 7	132322	1745	1	16.33	18.00	1.469	-	-	-0.07	0.160	0.235
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 7	132322	1745	1	16.33	18.00	1.469	-	-	-0.16	0.118	0.173
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 7	132322	1745	1	16.33	18.00	1.469	-	-	0.14	0.058	0.085
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	-	-	0.02	0.037	0.048
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	-	-	0.05	0.012	0.016
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	-	-	0.03	0.049	0.064
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	-	-	-0.19	0.035	0.045
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-	-	-0.05	0.042	0.055
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-	-	0.02	0.008	0.010
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-	-	-0.07	0.047	0.061
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-	-	-0.16	0.041	0.053
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-	-	-0.18	0.432	0.560
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-	-	0.01	0.170	0.221
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-	-	-0.06	0.542	0.703
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-	-	-0.17	0.183	0.237
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-	-	-0.12	0.430	0.560
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-	-	0.07	0.171	0.223
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-	-	-0.08	0.523	0.682
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-	-	-0.11	0.192	0.250
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	349000	1745	1	24.00	25.00	1.259	-	-	0.05	0.334	0.420
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	349000	1745	1	24.00	25.00	1.259	-	-	0.18	0.124	0.156
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	349000	1745	1	24.00	25.00	1.259	-	-	-0.18	0.430	0.541
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	349000	1745	1	24.00	25.00	1.259	-	-	0.17	0.137	0.172
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 2	State 7	349000	1745	1	23.98	25.00	1.265	-	-	0.05	0.327	0.414
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 2	State 7	349000	1745	1	23.98	25.00	1.265	-	-	0.02	0.121	0.153
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 2	State 7	349000	1745	1	23.98	25.00	1.265	-	-	0.12	0.417	0.527
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 2	State 7	349000	1745	1	23.98	25.00	1.265	-	-	-0.04	0.124	0.157
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	349000	1745	1	22.24	23.50	1.337	-	-	-0.11	0.809	1.081
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 6	349000	1745	1	22.24	23.50	1.337	-	-	0.05	0.421	0.563

	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 6	349000	1745	1	22.24	23.50	1.337	-	-	-0.06	0.375	0.501
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 6	349000	1745	1	22.24	23.50	1.337	-	-	-0.17	0.228	0.305
11	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 7	State 6	349000	1745	1	22.23	23.50	1.340	-	-	0.17	0.822	**1.101**
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 7	State 6	349000	1745	1	22.23	23.50	1.340	-	-	0.02	0.429	0.575
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 7	State 6	349000	1745	1	22.23	23.50	1.340	-	-	-0.02	0.399	0.535
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 7	State 6	349000	1745	1	22.23	23.50	1.340	-	-	-0.13	0.246	0.330
	FR1 n66	30M	QPSK	160	0	DFT-15	Right Cheek	0mm	Ant 7	State 6	349000	1745	1	21.27	22.50	1.327	-	-	-0.03	0.603	0.800
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 7	349000	1745	1	19.25	20.50	1.334	-	-	-0.18	0.415	0.553
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 7	349000	1745	1	19.25	20.50	1.334	-	-	-0.13	0.217	0.289
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 7	349000	1745	1	19.25	20.50	1.334	-	-	0.16	0.197	0.263
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 7	349000	1745	1	19.25	20.50	1.334	-	-	0.11	0.114	0.152
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 7	State 7	349000	1745	1	19.21	20.50	1.346	-	-	-0.12	0.427	0.575
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 7	State 7	349000	1745	1	19.21	20.50	1.346	-	-	-0.05	0.237	0.319
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 7	State 7	349000	1745	1	19.21	20.50	1.346	-	-	-0.03	0.203	0.273
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 7	State 7	349000	1745	1	19.21	20.50	1.346	-	-	0.18	0.121	0.163
1900MHz																					
	GSM1900	-	-	-	-	GPRS(2 Tx slots)	Right Cheek	0mm	Ant 1	State 6/7	810	1909.8	1	30.10	31.50	1.380	-	-	0.05	0.023	0.032
	GSM1900	-	-	-	-	GPRS(2 Tx slots)	Right Tilted	0mm	Ant 1	State 6/7	810	1909.8	1	30.10	31.50	1.380	-	-	-0.05	0.015	0.021
12	GSM1900	-	-	-	-	GPRS(2 Tx slots)	Left Cheek	0mm	Ant 1	State 6/7	810	1909.8	1	30.10	31.50	1.380	-	-	-0.03	0.045	**0.063**
	GSM1900	-	-	-	-	GPRS(2 Tx slots)	Left Tilted	0mm	Ant 1	State 6/7	810	1909.8	1	30.10	31.50	1.380	-	-	0.07	0.019	0.026
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	State 6/7	9262	1852.4	1	25.03	26.00	1.250	-	-	-0.11	0.080	0.100
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	State 6/7	9262	1852.4	1	25.03	26.00	1.250	-	-	0.01	0.057	0.071
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	State 6/7	9262	1852.4	1	25.03	26.00	1.250	-	-	0.03	0.110	0.138
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	State 6/7	9262	1852.4	1	25.03	26.00	1.250	-	-	-0.16	0.076	0.095
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 6	9262	1852.4	1	25.03	26.00	1.250	-	-	-0.14	0.450	0.563
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	State 6	9262	1852.4	1	25.03	26.00	1.250	-	-	0.01	0.140	0.175
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	9262	1852.4	1	25.03	26.00	1.250	-	-	-0.15	0.775	0.969
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	State 6	9262	1852.4	1	25.03	26.00	1.250	-	-	-0.01	0.160	0.200
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	9400	1880	1	24.80	26.00	1.318	-	-	-0.07	0.795	1.048
13	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 6	9538	1907.6	1	24.77	26.00	1.327	-	-	0.01	0.804	**1.067**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	State 7	9262	1852.4	1	22.52	23.50	1.253	-	-	-0.19	0.266	0.333
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	State 7	9262	1852.4	1	22.52	23.50	1.253	-	-	-0.07	0.081	0.102
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	State 7	9262	1852.4	1	22.52	23.50	1.253	-	-	-0.05	0.320	0.401
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	State 7	9262	1852.4	1	22.52	23.50	1.253	-	-	-0.02	0.090	0.113
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	26340	1880	1	25.13	26.00	1.222	-	-	-0.09	0.100	0.122
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	26340	1880	1	25.13	26.00	1.222	-	-	0.04	0.072	0.088
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	26340	1880	1	25.13	26.00	1.222	-	-	0.03	0.150	0.183
	LTE Band 2C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	18900 +19098	1880 +1899.8	2	24.69	26.00	1.352	-	-	0.03	0.111	0.150
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	26340	1880	1	25.13	26.00	1.222	-	-	-0.17	0.082	0.100
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	26340	1880	1	24.03	25.00	1.250	-	-	-0.13	0.077	0.096
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	26340	1880	1	24.03	25.00	1.250	-	-	-0.03	0.056	0.070
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	26340	1880	1	24.03	25.00	1.250	-	-	-0.08	0.116	0.145
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	26340	1880	1	24.03	25.00	1.250	-	-	-0.1	0.063	0.079
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	26340	1880	1	25.13	26.00	1.222	-	-	-0.18	0.598	0.731
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	26340	1880	1	25.13	26.00	1.222	-	-	-0.02	0.124	0.152
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	26340	1880	1	25.13	26.00	1.222	-	-	-0.18	0.634	0.775
	LTE Band 2C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	18900 +19098	1880 +1899.8	2	24.69	26.00	1.352	-	-	-0.12	0.512	0.692
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	26340	1880	1	25.13	26.00	1.222	-	-	0.03	0.164	0.200
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	26340	1880	1	24.03	25.00	1.250	-	-	-0.08	0.461	0.576
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	26340	1880	1	24.03	25.00	1.250	-	-	-0.04	0.096	0.120
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	26340	1880	1	24.03	25.00	1.250	-	-	-0.16	0.500	0.625
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	26340	1880	1	24.03	25.00	1.250	-	-	0.05	0.126	0.158
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	26340	1880	1	23.62	24.50	1.225	-	-	0.03	0.335	0.410
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	26340	1880	1	23.62	24.50	1.225	-	-	-0.1	0.094	0.115
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	26340	1880	1	23.62	24.50	1.225	-	-	-0.19	0.455	0.557

	LTE Band 2C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	18900 +19098	1880 +1899.8	2	23.19	24.50	1.352	-	-	0.14	0.401	0.542
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	26340	1880	1	23.62	24.50	1.225	-	-	0.09	0.097	0.119
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	26340	1880	1	22.60	23.50	1.230	-	-	0.19	0.272	0.335
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	26340	1880	1	22.60	23.50	1.230	-	-	-0.19	0.073	0.090
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	26340	1880	1	22.60	23.50	1.230	-	-	-0.11	0.361	0.444
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	26340	1880	1	22.60	23.50	1.230	-	-	0.06	0.079	0.097
14	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	26340	1880	1	19.25	21.00	1.496	-	-	-0.14	0.745	**1.115**
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6	26340	1880	1	19.25	21.00	1.496	-	-	0.04	0.549	0.821
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6	26340	1880	1	19.25	21.00	1.496	-	-	-0.06	0.373	0.558
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6	26340	1880	1	19.25	21.00	1.496	-	-	-0.14	0.268	0.401
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	26140	1860	1	19.21	21.00	1.510	-	-	-0.18	0.699	1.056
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	26590	1905	1	19.16	21.00	1.528	-	-	0.06	0.722	1.103
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6	26140	1860	1	19.21	21.00	1.510	-	-	0.05	0.512	0.773
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6	26590	1905	1	19.16	21.00	1.528	-	-	-0.07	0.541	0.826
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	26340	1880	1	18.29	20.00	1.483	-	-	-0.07	0.614	0.910
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6	26340	1880	1	18.29	20.00	1.483	-	-	-0.04	0.445	0.660
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 6	26340	1880	1	18.29	20.00	1.483	-	-	-0.17	0.301	0.446
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 6	26340	1880	1	18.29	20.00	1.483	-	-	0.05	0.217	0.322
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	26140	1860	1	18.26	20.00	1.493	-	-	-0.02	0.568	0.848
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	26590	1905	1	18.28	20.00	1.486	-	-	-0.11	0.611	0.908
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 7	State 6	26340	1880	1	18.27	20.00	1.489	-	-	0.03	0.587	0.874
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 7	State 6	26340	1880	1	18.27	20.00	1.489	-	-	0.05	0.467	0.696
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 7	26340	1880	1	16.66	18.00	1.361	-	-	-0.11	0.386	0.526
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 7	26340	1880	1	16.66	18.00	1.361	-	-	0.06	0.207	0.282
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 7	26340	1880	1	16.66	18.00	1.361	-	-	-0.18	0.161	0.219
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 7	26340	1880	1	16.66	18.00	1.361	-	-	0.03	0.106	0.144
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 7	26340	1880	1	15.49	17.00	1.416	-	-	-0.09	0.266	0.377
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 7	26340	1880	1	15.49	17.00	1.416	-	-	0.02	0.176	0.249
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 7	26340	1880	1	15.49	17.00	1.416	-	-	-0.12	0.129	0.183
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 7	26340	1880	1	15.49	17.00	1.416	-	-	-0.02	0.087	0.123
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-	-	-0.13	0.091	0.113
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-	-	0.07	0.068	0.084
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-	-	-0.06	0.113	0.140
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-	-	-0.19	0.069	0.086
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-	-	-0.07	0.097	0.125
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-	-	0.06	0.067	0.086
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-	-	-0.01	0.115	0.148
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-	-	-0.15	0.068	0.087
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	376500	1882.5	1	25.06	26.00	1.242	-	-	-0.14	0.461	0.572
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	376500	1882.5	1	25.06	26.00	1.242	-	-	-0.04	0.123	0.153
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	376500	1882.5	1	25.06	26.00	1.242	-	-	-0.17	0.675	0.838
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	376500	1882.5	1	25.06	26.00	1.242	-	-	0.04	0.131	0.163
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	372000	1860	1	24.91	26.00	1.285	-	-	-0.01	0.688	0.884
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	381000	1905	1	24.83	26.00	1.309	-	-	-0.09	0.632	0.827
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	376500	1882.5	1	24.91	26.00	1.285	-	-	-0.13	0.473	0.608
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	376500	1882.5	1	24.91	26.00	1.285	-	-	0.04	0.126	0.162
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	376500	1882.5	1	24.91	26.00	1.285	-	-	-0.01	0.659	0.847
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	376500	1882.5	1	24.91	26.00	1.285	-	-	-0.07	0.130	0.167
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	372000	1860	1	24.90	26.00	1.288	-	-	0.06	0.652	0.840
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	381000	1905	1	24.82	26.00	1.312	-	-	-0.01	0.619	0.812
	FR1 n25	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	Ant 2	State 6	376500	1882.5	1	24.11	25.00	1.227	-	-	0.01	0.593	0.728
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	376500	1882.5	1	23.09	24.00	1.233	-	-	0.09	0.296	0.365
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	376500	1882.5	1	23.09	24.00	1.233	-	-	0.06	0.084	0.104
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	376500	1882.5	1	23.09	24.00	1.233	-	-	0.19	0.485	0.598
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	376500	1882.5	1	23.09	24.00	1.233	-	-	-0.13	0.087	0.107
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	376500	1882.5	1	22.91	24.00	1.285	-	-	-0.07	0.312	0.401

	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	376500	1882.5	1	22.91	24.00	1.285	-	-	-0.14	0.083	0.107
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	376500	1882.5	1	22.91	24.00	1.285	-	-	-0.15	0.434	0.558
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	376500	1882.5	1	22.91	24.00	1.285	-	-	-0.06	0.085	0.109
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	376500	1882.5	1	20.27	21.00	1.183	-	-	-0.11	0.882	1.043
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 6	376500	1882.5	1	20.27	21.00	1.183	-	-	-0.04	0.483	0.571
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 6	376500	1882.5	1	20.27	21.00	1.183	-	-	-0.15	0.346	0.409
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 6	376500	1882.5	1	20.27	21.00	1.183	-	-	-0.02	0.227	0.269
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	372000	1860	1	20.17	21.00	1.211	-	-	-0.04	0.775	0.938
15	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	381000	1905	1	20.22	21.00	1.197	-	-	-0.09	0.901	**1.078**
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 7	State 6	376500	1882.5	1	20.23	21.00	1.194	-	-	-0.08	0.821	0.980
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 7	State 6	376500	1882.5	1	20.23	21.00	1.194	-	-	-0.04	0.474	0.566
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 7	State 6	376500	1882.5	1	20.23	21.00	1.194	-	-	-0.08	0.357	0.426
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 7	State 6	376500	1882.5	1	20.23	21.00	1.194	-	-	0.01	0.218	0.260
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 7	State 6	372000	1860	1	20.07	21.00	1.239	-	-	-0.08	0.681	0.844
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 7	State 6	381000	1905	1	20.11	21.00	1.227	-	-	-0.17	0.842	1.034
	FR1 n25	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 7	State 6	376500	1882.5	1	20.08	21.00	1.236	-	-	0.02	0.693	0.857
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 7	376500	1882.5	1	17.30	18.00	1.175	-	-	0.19	0.406	0.477
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 7	376500	1882.5	1	17.30	18.00	1.175	-	-	0.19	0.231	0.271
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 7	376500	1882.5	1	17.30	18.00	1.175	-	-	-0.19	0.167	0.196
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 7	376500	1882.5	1	17.30	18.00	1.175	-	-	-0.08	0.113	0.133
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 7	State 7	376500	1882.5	1	17.21	18.00	1.199	-	-	-0.12	0.395	0.474
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 7	State 7	376500	1882.5	1	17.21	18.00	1.199	-	-	-0.03	0.215	0.258
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 7	State 7	376500	1882.5	1	17.21	18.00	1.199	-	-	0.13	0.161	0.193
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 7	State 7	376500	1882.5	1	17.21	18.00	1.199	-	-	-0.1	0.109	0.131
2300MHz																					
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	-0.12	0.039	0.045
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	0.01	0.025	0.029
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	-0.04	0.043	0.050
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	-0.18	0.021	0.024
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	-0.1	0.031	0.036
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	0.07	0.015	0.018
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	0.01	0.035	0.041
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	-0.11	0.014	0.016
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	-0.09	0.470	0.542
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	0.01	0.176	0.203
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	0.01	0.193	0.223
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	27710	2310	1	22.88	23.50	1.153	-	-	-0.16	0.043	0.050
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	-0.1	0.337	0.394
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	-0.04	0.104	0.122
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	-0.05	0.145	0.170
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6/7	27710	2310	1	21.82	22.50	1.169	-	-	-0.12	0.036	0.042
16	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	27710	2310	1	20.91	22.50	1.442	-	-	-0.19	0.788	**1.136**
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6	27710	2310	1	20.91	22.50	1.442	-	-	0.03	0.694	1.001
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6	27710	2310	1	20.91	22.50	1.442	-	-	0.01	0.298	0.430
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6	27710	2310	1	20.91	22.50	1.442	-	-	-0.15	0.247	0.356
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 7	State 6	27710	2310	1	19.71	21.50	1.510	-	-	-0.14	0.635	0.959
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 7	State 6	27710	2310	1	19.71	21.50	1.510	-	-	0.07	0.573	0.865
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 7	State 6	27710	2310	1	19.71	21.50	1.510	-	-	-0.07	0.246	0.371
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 7	State 6	27710	2310	1	19.71	21.50	1.510	-	-	-0.09	0.204	0.308
	LTE Band 30	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	27710	2310	1	19.60	21.50	1.549	-	-	-0.07	0.642	0.994
	LTE Band 30	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6	27710	2310	1	19.60	21.50	1.549	-	-	-0.08	0.547	0.847
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 7	27710	2310	1	17.86	19.50	1.459	-	-	-0.16	0.352	0.514
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 7	27710	2310	1	17.86	19.50	1.459	-	-	-0.14	0.297	0.433
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 7	27710	2310	1	17.86	19.50	1.459	-	-	0.06	0.148	0.216
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 7	27710	2310	1	17.86	19.50	1.459	-	-	-0.07	0.116	0.169
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 7	State 7	27710	2310	1	16.81	18.50	1.476	-	-	-0.12	0.301	0.444

	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 7	State 7	27710	2310	1	16.81	18.50	1.476	-	-	0.09	0.255	0.376
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 7	State 7	27710	2310	1	16.81	18.50	1.476	-	-	0.19	0.117	0.173
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 7	State 7	27710	2310	1	16.81	18.50	1.476	-	-	0.19	0.092	0.136
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	-0.11	0.038	0.049
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	0.02	0.021	0.027
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	-0.03	0.043	0.055
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	-0.15	0.019	0.024
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	-0.12	0.034	0.044
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	0.07	0.019	0.025
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	-0.07	0.039	0.051
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	-0.11	0.017	0.022
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	0.16	0.394	0.508
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	0.03	0.137	0.176
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	-0.02	0.305	0.393
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6/7	462000	2310	1	21.40	22.50	1.288	-	-	-0.1	0.059	0.076
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 2	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	-0.16	0.394	0.512
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 2	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	0.03	0.124	0.161
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 2	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	-0.07	0.239	0.311
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 2	State 6/7	462000	2310	1	21.36	22.50	1.300	-	-	-0.17	0.049	0.064
17	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	462000	2310	1	20.35	22.00	1.462	-	-	0.01	0.739	**1.081**
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 6	462000	2310	1	20.35	22.00	1.462	-	-	-0.01	0.532	0.778
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 6	462000	2310	1	20.35	22.00	1.462	-	-	0.03	0.230	0.336
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 6	462000	2310	1	20.35	22.00	1.462	-	-	-0.11	0.183	0.268
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 7	State 6	462000	2310	1	20.33	22.00	1.469	-	-	-0.15	0.644	0.946
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 7	State 6	462000	2310	1	20.33	22.00	1.469	-	-	0.05	0.515	0.756
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 7	State 6	462000	2310	1	20.33	22.00	1.469	-	-	0.03	0.225	0.331
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 7	State 6	462000	2310	1	20.33	22.00	1.469	-	-	-0.17	0.178	0.261
	FR1 n30	10M	QPSK	50	0	DFT-15	Right Cheek	0mm	Ant 7	State 6	462000	2310	1	20.20	22.00	1.514	-	-	-0.07	0.640	0.969
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 7	462000	2310	1	17.42	19.00	1.439	-	-	-0.05	0.351	0.505
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 7	462000	2310	1	17.42	19.00	1.439	-	-	0.02	0.271	0.390
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 7	462000	2310	1	17.42	19.00	1.439	-	-	0.14	0.112	0.161
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 7	462000	2310	1	17.42	19.00	1.439	-	-	-0.04	0.089	0.128
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 7	State 7	462000	2310	1	17.41	19.00	1.442	-	-	0.14	0.352	0.508
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 7	State 7	462000	2310	1	17.41	19.00	1.442	-	-	0.02	0.251	0.362
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 7	State 7	462000	2310	1	17.41	19.00	1.442	-	-	0.16	0.102	0.147
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 7	State 7	462000	2310	1	17.41	19.00	1.442	-	-	-0.16	0.084	0.121
2600MHz																					
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	-	-	-0.1	0.047	0.059
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	-	-	-0.04	0.042	0.053
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	-	-	0.05	0.052	0.065
	LTE Band 7C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100 +21298	2535 +2554.8	2	18.35	19.50	1.303	-	-	0.01	0.010	0.013
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	-	-	0.05	0.013	0.016
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	-	-	-0.09	0.038	0.048
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	-	-	0.06	0.031	0.039
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	-	-	0.04	0.040	0.051
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	-	-	0.02	0.009	0.011
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	21100	2535	1	19.62	20.50	1.225	-	-	-0.18	0.835	1.023
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	21100	2535	1	19.62	20.50	1.225	-	-	0.05	0.142	0.174
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	21100	2535	1	19.62	20.50	1.225	-	-	-0.08	0.243	0.298
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	21100	2535	1	19.62	20.50	1.225	-	-	0.05	0.049	0.060
18	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	20850	2510	1	19.60	20.50	1.230	-	-	0.02	0.941	**1.158**
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	20850 +21048	2510 +2529.8	2	17.79	19.50	1.483	-	-	0.09	0.543	0.805
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	21350	2560	1	19.57	20.50	1.239	-	-	-0.11	0.702	0.870
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	21100	2535	1	18.67	19.50	1.211	-	-	-0.12	0.689	0.834
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	21100	2535	1	18.67	19.50	1.211	-	-	-0.03	0.122	0.148
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	21100	2535	1	18.67	19.50	1.211	-	-	-0.09	0.205	0.248

	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	21100	2535	1	18.67	19.50	1.211	-	-	-0.02	0.040	0.048
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	20850	2510	1	18.65	19.50	1.216	-	-	-0.07	0.717	0.872
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	21350	2560	1	18.61	19.50	1.227	-	-	-0.12	0.628	0.771
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	State 6	21100	2535	1	18.61	19.50	1.227	-	-	0.01	0.681	0.836
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	21100	2535	1	16.10	17.00	1.230	-	-	0.06	0.426	0.524
	LTE Band 7C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	21100 +21298	2535 +2554.8	2	15.83	17.00	1.309	-	-	0.01	0.388	0.508
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	21100	2535	1	16.10	17.00	1.230	-	-	0.01	0.066	0.081
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	21100	2535	1	16.10	17.00	1.230	-	-	-0.01	0.090	0.111
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	21100	2535	1	16.10	17.00	1.230	-	-	0.03	0.013	0.016
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	21100	2535	1	15.03	16.00	1.250	-	-	-0.15	0.268	0.335
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	21100	2535	1	15.03	16.00	1.250	-	-	0.09	0.057	0.071
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	21100	2535	1	15.03	16.00	1.250	-	-	-0.09	0.074	0.093
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	21100	2535	1	15.03	16.00	1.250	-	-	0.05	0.009	0.011
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	-	-	-0.14	0.052	0.066
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	-	-	0.04	0.041	0.052
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	-	-	-0.08	0.069	0.087
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	-	-	0.01	0.009	0.011
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	-	-	-0.15	0.048	0.062
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	-	-	-0.04	0.038	0.049
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	-	-	0.01	0.067	0.086
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	-	-	0.05	0.004	0.005
19	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2535	1	19.54	20.50	1.247	-	-	-0.06	0.945	**1.179**
	FR1 n7 AeroActive cooler	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2535	1	19.54	20.50	1.247	-	-	0.03	0.895	1.116
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2535	2	19.54	20.50	1.247	-	-	-0.06	0.941	1.174
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	507000	2535	1	19.54	20.50	1.247	-	-	-0.18	0.115	0.143
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	507000	2535	1	19.54	20.50	1.247	-	-	-0.15	0.231	0.288
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	507000	2535	1	19.54	20.50	1.247	-	-	0.02	0.067	0.084
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	502000	2510	1	19.24	20.50	1.337	-	-	0.01	0.753	1.006
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	512000	2560	1	19.22	20.50	1.343	-	-	-0.09	0.804	1.080
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2535	1	19.41	20.50	1.285	-	-	-0.18	0.852	1.095
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	507000	2535	1	19.41	20.50	1.285	-	-	-0.01	0.134	0.172
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	507000	2535	1	19.41	20.50	1.285	-	-	0.01	0.254	0.326
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	507000	2535	1	19.41	20.50	1.285	-	-	-0.17	0.074	0.095
	FR1 n7	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2560	1	19.35	20.50	1.303	-	-	0.02	0.752	0.980
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	507000	2535	1	16.69	17.50	1.205	-	-	0.16	0.452	0.545
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	507000	2535	1	16.69	17.50	1.205	-	-	0.07	0.064	0.077
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	507000	2535	1	16.69	17.50	1.205	-	-	-0.14	0.087	0.105
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	507000	2535	1	16.69	17.50	1.205	-	-	0.05	0.013	0.016
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	507000	2535	1	16.67	17.50	1.211	-	-	0.14	0.437	0.529
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	507000	2535	1	16.67	17.50	1.211	-	-	0.05	0.060	0.073
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	507000	2535	1	16.67	17.50	1.211	-	-	-0.1	0.075	0.091
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	507000	2535	1	16.67	17.50	1.211	-	-	0.06	0.011	0.013
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	41055	2636.5	1	25.12	26.00	1.225	62.9	1.006	0.02	0.017	0.021
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	41055	2636.5	1	25.12	26.00	1.225	62.9	1.006	0.09	0.009	0.011
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	41055	2636.5	1	25.12	26.00	1.225	62.9	1.006	0.12	0.026	0.032
	LTE Band 41C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	41055 +41253	2636.5 +2656.3	2	19.24	20.50	1.337	62.9	1.006	0.03	0.015	0.020
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	41055	2636.5	1	25.12	26.00	1.225	62.9	1.006	-0.05	0.008	0.010
	LTE Band 41 PC2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	41055	2636.5	1	27.21	27.50	1.069	42.9	1.009	0.05	0.026	0.028
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	41055	2636.5	1	24.16	25.00	1.213	62.9	1.006	0.05	0.014	0.017
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	41055	2636.5	1	24.16	25.00	1.213	62.9	1.006	-0.07	0.007	0.009
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	41055	2636.5	1	24.16	25.00	1.213	62.9	1.006	0.04	0.021	0.026
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	41055	2636.5	1	24.16	25.00	1.213	62.9	1.006	0.03	0.004	0.005
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	41055	2636.5	1	20.47	21.50	1.268	62.9	1.006	-0.07	0.669	0.853
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	41055	2636.5	1	20.47	21.50	1.268	62.9	1.006	0.06	0.068	0.087
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	41055	2636.5	1	20.47	21.50	1.268	62.9	1.006	-0.16	0.076	0.097

	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	41055	2636.5	1	20.47	21.50	1.268	62.9	1.006	0.05	0.019	0.024
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	39750	2506	1	20.40	21.50	1.288	62.9	1.006	-0.14	0.428	0.555
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	40185	2549.5	1	20.38	21.50	1.294	62.9	1.006	-0.17	0.436	0.568
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	40620	2593	1	20.38	21.50	1.294	62.9	1.006	0.04	0.452	0.588
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	41490	2680	1	20.45	21.50	1.274	62.9	1.006	-0.06	0.784	1.004
20	LTE Band 41 PC2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	41490	2680	1	22.57	23.00	1.104	42.9	1.009	-0.15	0.937	**1.044**
	LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	41490 +41292	2680 +2660.2	2	21.18	22.00	1.208	42.9	1.009	-0.02	0.680	0.829
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	41055	2636.5	1	19.57	20.50	1.239	62.9	1.006	-0.18	0.542	0.675
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	41055	2636.5	1	19.57	20.50	1.239	62.9	1.006	0.01	0.075	0.093
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	41055	2636.5	1	19.57	20.50	1.239	62.9	1.006	-0.02	0.078	0.097
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	41055	2636.5	1	19.57	20.50	1.239	62.9	1.006	-0.17	0.019	0.024
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	39750	2506	1	19.55	20.50	1.245	62.9	1.006	0.05	0.340	0.426
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	40185	2549.5	1	19.52	20.50	1.253	62.9	1.006	-0.06	0.346	0.436
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	40620	2593	1	19.54	20.50	1.247	62.9	1.006	0.01	0.359	0.450
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	41490	2680	1	19.55	20.50	1.245	62.9	1.006	0.09	0.623	0.780
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 2	State 6	41055	2636.5	1	19.54	20.50	1.247	62.9	1.006	0.04	0.489	0.614
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	41055	2636.5	1	17.71	18.50	1.199	62.9	1.006	0.06	0.424	0.512
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	41055	2636.5	1	17.71	18.50	1.199	62.9	1.006	0.05	0.076	0.092
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	41055	2636.5	1	17.71	18.50	1.199	62.9	1.006	-0.01	0.083	0.100
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	41055	2636.5	1	17.71	18.50	1.199	62.9	1.006	0.03	0.012	0.014
	LTE Band 41 PC2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	41055	2636.5	1	19.79	20.00	1.050	42.9	1.009	0.05	0.485	0.514
	LTE Band 41C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	41055 +41253	2636.5 +2656.3	2	19.16	20.00	1.213	42.9	1.009	0.02	0.389	0.476
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	41055	2636.5	1	16.75	17.50	1.189	62.9	1.006	0.09	0.175	0.209
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	41055	2636.5	1	16.75	17.50	1.189	62.9	1.006	0.11	0.066	0.079
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	41055	2636.5	1	16.75	17.50	1.189	62.9	1.006	0.07	0.065	0.078
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	41055	2636.5	1	16.75	17.50	1.189	62.9	1.006	-0.02	0.009	0.011
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-	-	-0.1	0.048	0.062
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-	-	-0.14	0.039	0.050
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-	-	-0.03	0.100	0.129
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-	-	-0.03	0.035	0.045
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	26.14	27.50	1.368	50	1.000	-0.19	0.071	0.097
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	-	-	-0.17	0.047	0.063
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	-	-	-0.1	0.040	0.054
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	-	-	0.01	0.099	0.133
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	-	-	0.03	0.036	0.048
21	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	17.81	19.00	1.315	-	-	-0.05	0.810	**1.065**
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	518598	2592.99	1	17.81	19.00	1.315	-	-	-0.07	0.352	0.463
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	518598	2592.99	1	17.81	19.00	1.315	-	-	0.04	0.159	0.209
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	518598	2592.99	1	17.81	19.00	1.315	-	-	-0.11	0.118	0.155
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	19.00	20.50	1.413	50	1.000	-0.09	0.584	0.825
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	17.68	19.00	1.355	-	-	-0.08	0.756	1.025
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	518598	2592.99	1	17.68	19.00	1.355	-	-	-0.04	0.325	0.440
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	518598	2592.99	1	17.68	19.00	1.355	-	-	-0.06	0.135	0.183
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	518598	2592.99	1	17.68	19.00	1.355	-	-	-0.17	0.095	0.129
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	17.65	19.00	1.365	-	-	0.05	0.680	0.928
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.81	16.00	1.315	-	-	0.11	0.354	0.466
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.81	16.00	1.315	-	-	0.18	0.175	0.230
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.81	16.00	1.315	-	-	-0.05	0.084	0.110
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.81	16.00	1.315	-	-	-0.19	0.058	0.076
	FR1 n41 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	518598	2592.99	1	16.16	17.50	1.361	50	1.000	-0.18	0.265	0.361
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.76	16.00	1.330	-	-	-0.07	0.337	0.448
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.76	16.00	1.330	-	-	-0.14	0.170	0.226
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.76	16.00	1.330	-	-	0.08	0.075	0.100
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.76	16.00	1.330	-	-	-0.18	0.034	0.045
3000MHz																					
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.17	0.431	0.538

	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	0.03	0.234	0.292
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.14	0.129	0.161
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.1	0.115	0.144
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.15	0.324	0.412
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.04	0.196	0.249
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.01	0.109	0.139
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.15	0.096	0.122
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 8	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.07	0.089	0.111
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 8	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	0.02	0.085	0.106
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.14	0.194	0.242
	LTE Band 48C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 8	State 6/7	56640 +56442	3690 +3670.2	2	14.89	16.50	1.449	62.9	1.006	-0.06	0.085	0.124
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 8	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.11	0.054	0.067
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 8	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.09	0.070	0.089
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 8	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	0.03	0.059	0.075
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 8	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	0.02	0.120	0.153
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 8	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.12	0.030	0.038
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	0.03	0.019	0.024
	LTE Band 48C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 9	State 6/7	56640 +56442	3690 +3670.2	2	14.89	16.50	1.449	62.9	1.006	0.01	0.006	0.009
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 9	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	0.05	0.006	0.007
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 9	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	-0.01	0.009	0.011
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 9	State 6/7	56640	3690	1	22.56	23.50	1.242	62.9	1.006	0.05	0.007	0.009
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 9	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	0.02	0.013	0.017
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 9	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	0.01	0.005	0.006
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 9	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	-0.06	0.007	0.009
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 9	State 6/7	56640	3690	1	21.48	22.50	1.265	62.9	1.006	0.07	0.006	0.008
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	State 6/7	56640	3690	1	20.88	22.00	1.294	62.9	1.006	-0.17	0.670	0.872
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	State 6/7	56640	3690	1	20.88	22.00	1.294	62.9	1.006	-0.02	0.757	0.986
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 10	State 6/7	56640	3690	1	20.88	22.00	1.294	62.9	1.006	-0.04	0.415	0.540
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	State 6/7	56640	3690	1	20.88	22.00	1.294	62.9	1.006	-0.13	0.517	0.673
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	State 6/7	55340	3560	1	20.85	22.00	1.303	62.9	1.006	0.01	0.665	0.872
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	State 6/7	55830	3609	1	20.84	22.00	1.306	62.9	1.006	0.15	0.663	0.871
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	State 6/7	56150	3641	1	20.83	22.00	1.309	62.9	1.006	-0.03	0.645	0.849
22	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	State 6/7	55340	3560	1	20.85	22.00	1.303	62.9	1.006	0.06	0.778	**1.020**
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	State 6/7	55830	3609	1	20.84	22.00	1.306	62.9	1.006	-0.05	0.748	0.983
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	State 6/7	56150	3641	1	20.83	22.00	1.309	62.9	1.006	-0.18	0.732	0.964
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	State 6/7	55340	3560	1	20.85	22.00	1.303	62.9	1.006	0.02	0.485	0.636
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	State 6/7	55830	3609	1	20.84	22.00	1.306	62.9	1.006	0.08	0.457	0.601
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	State 6/7	56150	3641	1	20.83	22.00	1.309	62.9	1.006	-0.04	0.439	0.578
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	State 6/7	56640	3690	1	19.90	21.00	1.288	62.9	1.006	-0.09	0.558	0.723
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	State 6/7	56640	3690	1	19.90	21.00	1.288	62.9	1.006	0.04	0.619	0.802
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 10	State 6/7	56640	3690	1	19.90	21.00	1.288	62.9	1.006	-0.02	0.388	0.503
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 10	State 6/7	56640	3690	1	19.90	21.00	1.288	62.9	1.006	-0.18	0.418	0.542
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	State 6/7	55340	3560	1	19.84	21.00	1.306	62.9	1.006	0.03	0.531	0.698
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	State 6/7	55830	3609	1	19.86	21.00	1.300	62.9	1.006	0.13	0.545	0.713
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	State 6/7	56150	3641	1	19.81	21.00	1.315	62.9	1.006	0.02	0.526	0.696
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	State 6/7	55340	3560	1	19.84	21.00	1.306	62.9	1.006	-0.04	0.652	0.857
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	State 6/7	55830	3609	1	19.86	21.00	1.300	62.9	1.006	0.01	0.638	0.834
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	State 6/7	56150	3641	1	19.81	21.00	1.315	62.9	1.006	-0.13	0.611	0.808
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 10	State 6/7	56640	3690	1	19.89	21.00	1.291	62.9	1.006	-0.18	0.516	0.670
	LTE Band 48	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 10	State 6/7	56640	3690	1	19.89	21.00	1.291	62.9	1.006	0.04	0.559	0.726
	LTE Band 48	20M	QPSK	100	0	-	Left Tilted	0mm	Ant 10	State 6/7	56640	3690	1	19.89	21.00	1.291	62.9	1.006	0.05	0.397	0.516
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.04	0.502	0.659
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.16	0.421	0.552
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.09	0.285	0.374
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.16	0.243	0.319
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	638000	3570	1	21.28	22.50	1.324	-	-	0.03	0.642	0.850

	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	645332	3679.98	1	21.31	22.50	1.315	-	-	0.02	0.545	0.717
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.13	0.597	0.805
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 7	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.07	0.443	0.598
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 7	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	0.02	0.295	0.398
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 7	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.12	0.253	0.341
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	638000	3570	1	21.18	22.50	1.355	-	-	0.05	0.646	0.875
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	645332	3679.98	1	21.10	22.50	1.380	-	-	0.04	0.593	0.819
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Cheek	0mm	Ant 7	State 6/7	641666	3624.99	1	20.21	21.50	1.346	-	-	0.13	0.458	0.616
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.07	0.107	0.140
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.03	0.099	0.130
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.09	0.194	0.255
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.16	0.069	0.091
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.14	0.118	0.159
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.04	0.111	0.150
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	0.01	0.186	0.251
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.1	0.072	0.097
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.13	0.065	0.085
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	0.01	0.021	0.028
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	0.01	0.035	0.046
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	State 6/7	641666	3624.99	1	21.32	22.50	1.312	-	-	-0.14	0.028	0.037
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.07	0.059	0.080
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 9	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	0.02	0.018	0.024
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 9	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	0.02	0.031	0.042
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 9	State 6/7	641666	3624.99	1	21.20	22.50	1.349	-	-	-0.12	0.024	0.032
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	641666	3624.99	1	20.35	21.50	1.303	-	-	0.02	0.581	0.757
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	641666	3624.99	1	20.35	21.50	1.303	-	-	-0.12	0.678	0.884
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	State 6/7	641666	3624.99	1	20.35	21.50	1.303	-	-	-0.13	0.331	0.431
	FR1 n48	40M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	State 6/7	641666	3624.99	1	20.35	21.50	1.303	-	-	-0.14	0.338	0.440
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	638000	3570	1	20.32	21.50	1.312	-	-	0.16	0.567	0.744
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	645332	3679.98	1	20.26	21.50	1.330	-	-	0.19	0.512	0.681
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	638000	3570	1	20.32	21.50	1.312	-	-	-0.04	0.757	0.993
	FR1 n48	40M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	645332	3679.98	1	20.26	21.50	1.330	-	-	-0.08	0.646	0.859
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	641666	3624.99	1	20.22	21.50	1.343	-	-	0.12	0.591	0.794
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	641666	3624.99	1	20.22	21.50	1.343	-	-	0.04	0.688	0.924
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Cheek	0mm	Ant 10	State 6/7	641666	3624.99	1	20.22	21.50	1.343	-	-	0.17	0.334	0.448
	FR1 n48	40M	QPSK	50	28	DFT-30	Left Tilted	0mm	Ant 10	State 6/7	641666	3624.99	1	20.22	21.50	1.343	-	-	0.14	0.347	0.466
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	638000	3570	1	20.19	21.50	1.352	-	-	-0.15	0.585	0.791
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	645332	3679.98	1	20.18	21.50	1.355	-	-	-0.15	0.519	0.703
23	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	638000	3570	1	20.19	21.50	1.352	-	-	-0.11	0.787	**1.064**
	FR1 n48	40M	QPSK	50	28	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	645332	3679.98	1	20.18	21.50	1.355	-	-	0.15	0.661	0.896
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	641666	3624.99	1	20.28	21.50	1.324	-	-	0.03	0.485	0.642
	FR1 n48	40M	QPSK	100	0	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	641666	3624.99	1	20.28	21.50	1.324	-	-	0.15	0.725	0.960
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.1	0.160	0.233
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.17	0.154	0.225
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.03	0.261	0.381
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.07	0.086	0.125
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	656000	3840	1	26.12	27.50	1.374	50	1.000	-0.12	0.189	0.260
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	-0.07	0.154	0.230
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	-0.15	0.129	0.193
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	0.07	0.242	0.362
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	0.02	0.082	0.123
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	-0.15	0.075	0.105
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	-0.15	0.074	0.104
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	0.03	0.156	0.219
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	0.03	0.065	0.091
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	26.11	27.50	1.377	50	1.000	0.06	0.122	0.168

	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	-0.09	0.069	0.100
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	-0.17	0.066	0.096
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	-0.01	0.123	0.178
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	-0.04	0.046	0.067
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	656000	3840	1	20.36	22.00	1.459	-	-	-0.17	0.402	0.586
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	656000	3840	1	20.36	22.00	1.459	-	-	-0.07	0.361	0.527
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	656000	3840	1	20.36	22.00	1.459	-	-	0.07	0.130	0.190
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	656000	3840	1	20.36	22.00	1.459	-	-	-0.06	0.120	0.175
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	656000	3840	1	21.69	23.50	1.517	50	1.000	-0.09	0.294	0.446
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	656000	3840	1	20.29	22.00	1.483	-	-	-0.14	0.321	0.476
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	656000	3840	1	20.29	22.00	1.483	-	-	-0.12	0.257	0.381
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	656000	3840	1	20.29	22.00	1.483	-	-	0.02	0.092	0.136
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	656000	3840	1	20.29	22.00	1.483	-	-	-0.03	0.083	0.123
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	656000	3840	1	17.10	19.00	1.549	-	-	-0.06	0.231	0.358
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	656000	3840	1	17.10	19.00	1.549	-	-	-0.07	0.174	0.269
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	656000	3840	1	17.10	19.00	1.549	-	-	0.07	0.074	0.115
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	656000	3840	1	17.10	19.00	1.549	-	-	-0.06	0.064	0.099
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	656000	3840	1	18.61	20.50	1.545	50	1.000	-0.03	0.173	0.267
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 7	656000	3840	1	17.08	19.00	1.556	-	-	-0.14	0.184	0.286
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 7	656000	3840	1	17.08	19.00	1.556	-	-	-0.12	0.170	0.265
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 7	656000	3840	1	17.08	19.00	1.556	-	-	0.02	0.069	0.107
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 7	656000	3840	1	17.08	19.00	1.556	-	-	-0.03	0.059	0.092
24	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	20.51	22.00	1.409	-	-	-0.12	0.822	**1.158**
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	2	20.51	22.00	1.409	-	-	0.03	0.810	1.142
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	633332	3499.98	1	20.51	22.00	1.409	-	-	-0.07	0.527	0.743
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	633332	3499.98	1	20.51	22.00	1.409	-	-	0.03	0.274	0.386
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	633332	3499.98	1	20.51	22.00	1.409	-	-	-0.08	0.239	0.337
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	21.66	23.50	1.528	50	1.000	-0.13	0.584	0.892
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	20.42	22.00	1.439	-	-	-0.08	0.752	1.082
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	633332	3499.98	1	20.42	22.00	1.439	-	-	-0.01	0.502	0.722
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	633332	3499.98	1	20.42	22.00	1.439	-	-	0.02	0.260	0.374
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	633332	3499.98	1	20.42	22.00	1.439	-	-	-0.16	0.216	0.311
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	20.29	22.00	1.483	-	-	0.02	0.712	1.056
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 7	State 6	633332	3499.98	1	20.29	22.00	1.483	-	-	0.02	0.450	0.667
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	633332	3499.98	1	17.24	19.00	1.500	-	-	0.09	0.418	0.627
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	633332	3499.98	1	17.24	19.00	1.500	-	-	0.09	0.271	0.406
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	633332	3499.98	1	17.24	19.00	1.500	-	-	0.1	0.154	0.231
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	633332	3499.98	1	17.24	19.00	1.500	-	-	-0.14	0.110	0.165
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	633332	3499.98	1	18.95	20.50	1.429	50	1.000	-0.06	0.312	0.446
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 7	633332	3499.98	1	17.22	19.00	1.507	-	-	0.08	0.384	0.579
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 7	633332	3499.98	1	17.22	19.00	1.507	-	-	-0.14	0.260	0.392
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 7	633332	3499.98	1	17.22	19.00	1.507	-	-	0.15	0.143	0.215
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 7	633332	3499.98	1	17.22	19.00	1.507	-	-	-0.03	0.098	0.148
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	State 7	633332	3499.98	1	17.19	19.00	1.517	-	-	0.05	0.405	0.614
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.16	0.032	0.047
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.07	0.016	0.023
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	-0.03	0.028	0.041
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	State 6/7	656000	3840	1	24.36	26.00	1.459	-	-	0.03	0.019	0.028
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	656000	3840	1	26.12	27.50	1.374	50	1.000	0.01	0.025	0.034
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	-0.15	0.030	0.045
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	-0.08	0.014	0.021
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	0.03	0.022	0.033
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	State 6/7	656000	3840	1	24.25	26.00	1.496	-	-	-0.04	0.018	0.027
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	-0.15	0.045	0.063
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 9	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	-0.18	0.021	0.029
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 9	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	0.05	0.031	0.043

	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 9	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-	-	0.02	0.028	0.039
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	633332	3499.98	1	26.11	27.50	1.377	50	1.000	-0.16	0.033	0.045
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 9	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	-0.1	0.041	0.059
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 9	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	-0.13	0.018	0.026
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 9	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	0.04	0.026	0.038
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 9	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-	-	0.01	0.025	0.036
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	656000	3840	1	18.93	20.50	1.435	-	-	-0.09	0.209	0.300
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	656000	3840	1	18.93	20.50	1.435	-	-	-0.12	0.304	0.436
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	State 6/7	656000	3840	1	18.93	20.50	1.435	-	-	0.03	0.103	0.148
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	State 6/7	656000	3840	1	18.93	20.50	1.435	-	-	-0.07	0.112	0.161
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	656000	3840	1	20.54	22.00	1.400	50	1.000	-0.12	0.232	0.325
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	656000	3840	1	18.87	20.50	1.455	-	-	-0.15	0.189	0.275
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	656000	3840	1	18.87	20.50	1.455	-	-	0.04	0.204	0.297
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 10	State 6/7	656000	3840	1	18.87	20.50	1.455	-	-	-0.02	0.095	0.138
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 10	State 6/7	656000	3840	1	18.87	20.50	1.455	-	-	-0.18	0.125	0.182
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	633332	3499.98	1	19.15	20.50	1.365	-	-	-0.13	0.477	0.651
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	633332	3499.98	1	19.15	20.50	1.365	-	-	0.07	0.720	0.982
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 10	State 6/7	633332	3499.98	1	19.15	20.50	1.365	-	-	-0.06	0.220	0.300
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 10	State 6/7	633332	3499.98	1	19.15	20.50	1.365	-	-	-0.14	0.257	0.351
	FR1 n77 PC2	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	633332	3499.98	1	20.66	22.00	1.361	50	1.000	0.03	0.550	0.749
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	633332	3499.98	1	19.13	20.50	1.371	-	-	-0.17	0.420	0.576
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	633332	3499.98	1	19.13	20.50	1.371	-	-	-0.04	0.637	0.873
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 10	State 6/7	633332	3499.98	1	19.13	20.50	1.371	-	-	-0.02	0.193	0.265
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 10	State 6/7	633332	3499.98	1	19.13	20.50	1.371	-	-	-0.1	0.226	0.310
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 10	State 6/7	633332	3499.98	1	19.07	20.50	1.390	-	-	0.03	0.402	0.559
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Tilted	0mm	Ant 10	State 6/7	633332	3499.98	1	19.07	20.50	1.390	-	-	0.15	0.614	0.853

<Inter CA 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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																			
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	21.60	23.00	1.380	0.03	0.066	0.091
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	21.60	23.00	1.380	0.1	0.034	0.047
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	21.60	23.00	1.380	-0.08	0.047	0.065
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	21.60	23.00	1.380	0.04	0.029	0.040
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	20.56	22.00	1.393	-0.04	0.052	0.072
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	20.56	22.00	1.393	-0.01	0.027	0.038
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	20.56	22.00	1.393	-0.15	0.037	0.052
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	20.56	22.00	1.393	-0.18	0.023	0.032
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	23095	707.5	1	21.60	23.00	1.380	0.01	0.258	0.356
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	23095	707.5	1	21.60	23.00	1.380	-0.11	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	23095	707.5	1	21.60	23.00	1.380	-0.19	0.171	0.236
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	23095	707.5	1	21.60	23.00	1.380	-0.19	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6/7	23095	707.5	1	20.56	22.00	1.393	-0.18	0.188	0.262
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6/7	23095	707.5	1	20.56	22.00	1.393	0.08	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6/7	23095	707.5	1	20.56	22.00	1.393	0.1	0.151	0.210
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6/7	23095	707.5	1	20.56	22.00	1.393	-0.18	0.001	0.001
835MHz																			
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6/7	20525	836.5	1	21.18	23.00	1.521	0.05	0.056	0.085
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6/7	20525	836.5	1	21.18	23.00	1.521	0.04	0.029	0.044
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6/7	20525	836.5	1	21.18	23.00	1.521	0.11	0.031	0.047
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6/7	20525	836.5	1	21.18	23.00	1.521	0.05	0.025	0.038
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	State 6/7	20525	836.5	1	20.18	22.00	1.521	-0.13	0.044	0.067
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	State 6/7	20525	836.5	1	20.18	22.00	1.521	0.15	0.023	0.035
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	State 6/7	20525	836.5	1	20.18	22.00	1.521	-0.01	0.025	0.038
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	State 6/7	20525	836.5	1	20.18	22.00	1.521	-0.01	0.020	0.030
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	20525	836.5	1	20.81	22.50	1.476	-0.03	0.255	0.376
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	20525	836.5	1	20.81	22.50	1.476	0.04	0.001	0.001
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	20525	836.5	1	20.81	22.50	1.476	0.04	0.168	0.248
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	20525	836.5	1	20.81	22.50	1.476	0.17	0.001	0.001
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6/7	20525	836.5	1	19.93	21.50	1.435	-0.09	0.186	0.267
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6/7	20525	836.5	1	19.93	21.50	1.435	0.07	0.001	0.001
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6/7	20525	836.5	1	19.93	21.50	1.435	0.04	0.109	0.156
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6/7	20525	836.5	1	19.93	21.50	1.435	-0.17	0.001	0.001
1750MHz																			
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	132322	1745	1	21.95	23.00	1.274	0.05	0.007	0.009
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	132322	1745	1	21.95	23.00	1.274	0.07	0.003	0.004
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322	1745	1	21.95	23.00	1.274	0.09	0.015	0.019
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	132322	1745	1	21.95	23.00	1.274	0.11	0.004	0.005
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	132322	1745	1	20.86	22.00	1.300	-0.05	0.006	0.008
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	132322	1745	1	20.86	22.00	1.300	0.05	0.002	0.003
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322	1745	1	20.86	22.00	1.300	0.02	0.012	0.016
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	132322	1745	1	20.86	22.00	1.300	0.01	0.003	0.004
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	132322	1745	1	21.95	23.00	1.274	0.05	0.231	0.294
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	132322	1745	1	21.95	23.00	1.274	-0.07	0.086	0.110
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	132322	1745	1	21.95	23.00	1.274	-0.15	0.287	0.365
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	132322	1745	1	21.95	23.00	1.274	0.18	0.093	0.118
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6/7	132322	1745	1	20.86	22.00	1.300	-0.13	0.183	0.238
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6/7	132322	1745	1	20.86	22.00	1.300	0.1	0.068	0.088
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6/7	132322	1745	1	20.86	22.00	1.300	0.14	0.216	0.281
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6/7	132322	1745	1	20.86	22.00	1.300	-0.03	0.074	0.096
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6/7	132322	1745	1	16.72	18.00	1.343	0.01	0.363	0.487
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6/7	132322	1745	1	16.72	18.00	1.343	-0.17	0.191	0.256

	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6/7	132322	1745	1	16.72	18.00	1.343	0.15	0.139	0.187
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6/7	132322	1745	1	16.72	18.00	1.343	-0.01	0.080	0.107
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6/7	132322	1745	1	15.69	17.00	1.352	0.04	0.286	0.387
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6/7	132322	1745	1	15.69	17.00	1.352	-0.05	0.150	0.203
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 6/7	132322	1745	1	15.69	17.00	1.352	-0.18	0.108	0.146
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 6/7	132322	1745	1	15.69	17.00	1.352	0.16	0.061	0.082
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	18900	1880	1	21.95	23.00	1.274	0.15	0.049	0.062
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	18900	1880	1	21.95	23.00	1.274	0.12	0.035	0.045
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	18900	1880	1	21.95	23.00	1.274	-0.16	0.073	0.093
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	18900	1880	1	21.95	23.00	1.274	-0.01	0.040	0.051
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	18900	1880	1	20.83	22.00	1.309	-0.15	0.039	0.051
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	18900	1880	1	20.83	22.00	1.309	-0.11	0.028	0.037
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	18900	1880	1	20.83	22.00	1.309	0.09	0.058	0.076
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	18900	1880	1	20.83	22.00	1.309	0.13	0.032	0.042
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	18900	1880	1	21.95	23.00	1.274	0.13	0.291	0.371
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	18900	1880	1	21.95	23.00	1.274	0.07	0.060	0.076
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	18900	1880	1	21.95	23.00	1.274	-0.17	0.288	0.367
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	18900	1880	1	21.95	23.00	1.274	0.1	0.080	0.102
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6/7	18900	1880	1	20.83	22.00	1.309	0.04	0.231	0.302
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6/7	18900	1880	1	20.83	22.00	1.309	0.04	0.048	0.063
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6/7	18900	1880	1	20.83	22.00	1.309	0.09	0.215	0.281
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6/7	18900	1880	1	20.83	22.00	1.309	-0.17	0.064	0.084
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6/7	18900	1880	1	16.84	18.00	1.306	-0.06	0.369	0.482
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6/7	18900	1880	1	16.84	18.00	1.306	-0.17	0.269	0.351
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6/7	18900	1880	1	16.84	18.00	1.306	0.01	0.173	0.226
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6/7	18900	1880	1	16.84	18.00	1.306	-0.01	0.131	0.171
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6/7	18900	1880	1	15.82	17.00	1.312	-0.12	0.293	0.384
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6/7	18900	1880	1	15.82	17.00	1.312	0.12	0.214	0.281
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 6/7	18900	1880	1	15.82	17.00	1.312	0.04	0.137	0.180
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 6/7	18900	1880	1	15.82	17.00	1.312	-0.04	0.104	0.136
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	27710	2310	1	19.45	20.50	1.274	0.17	0.010	0.013
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	27710	2310	1	19.45	20.50	1.274	0.17	0.007	0.009
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	27710	2310	1	19.45	20.50	1.274	-0.06	0.011	0.014
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	27710	2310	1	19.45	20.50	1.274	0.02	0.006	0.008
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	State 6/7	27710	2310	1	18.42	19.50	1.282	0.05	0.060	0.077
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	State 6/7	27710	2310	1	18.42	19.50	1.282	0.06	0.004	0.005
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	State 6/7	27710	2310	1	18.42	19.50	1.282	-0.08	0.070	0.090
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	State 6/7	27710	2310	1	18.42	19.50	1.282	-0.02	0.003	0.004
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	27710	2310	1	19.45	20.50	1.274	0.04	0.257	0.327
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	27710	2310	1	19.45	20.50	1.274	0.19	0.090	0.115
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	27710	2310	1	19.45	20.50	1.274	-0.03	0.099	0.126
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	27710	2310	1	19.45	20.50	1.274	-0.08	0.022	0.028
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6/7	27710	2310	1	18.42	19.50	1.282	-0.11	0.204	0.262
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6/7	27710	2310	1	18.42	19.50	1.282	-0.02	0.071	0.091
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6/7	27710	2310	1	18.42	19.50	1.282	0.18	0.079	0.101
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6/7	27710	2310	1	18.42	19.50	1.282	-0.06	0.017	0.022
2600MHz																			
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	21100	2535	1	22.14	23.00	1.219	0.1	0.023	0.028
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	21100	2535	1	22.14	23.00	1.219	0.08	0.021	0.026
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100	2535	1	22.14	23.00	1.219	-0.03	0.026	0.032
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	21100	2535	1	22.14	23.00	1.219	0.02	0.009	0.011
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	21100	2535	1	21.13	22.00	1.222	0.05	0.018	0.022
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	21100	2535	1	21.13	22.00	1.222	-0.07	0.017	0.021
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100	2535	1	21.13	22.00	1.222	0.04	0.021	0.026
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	21100	2535	1	21.13	22.00	1.222	0.02	0.007	0.009
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6/7	21100	2535	1	16.10	16.50	1.096	0.06	0.354	0.388

	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6/7	21100	2535	1	16.10	16.50	1.096	0.01	0.066	0.072
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6/7	21100	2535	1	16.10	16.50	1.096	-0.01	0.090	0.099
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6/7	21100	2535	1	16.10	16.50	1.096	0.03	0.013	0.014
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6/7	21100	2535	1	15.03	15.50	1.114	-0.15	0.268	0.299
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6/7	21100	2535	1	15.03	15.50	1.114	0.09	0.057	0.064
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6/7	21100	2535	1	15.03	15.50	1.114	-0.09	0.074	0.082
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6/7	21100	2535	1	15.03	15.50	1.114	0.05	0.009	0.010

<ENDC 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	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
750MHz																			
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-0.12	0.062	0.081
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	0.06	0.047	0.062
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-0.05	0.059	0.077
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.82	26.00	1.312	-0.17	0.044	0.058
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-0.11	0.051	0.070
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	0.03	0.034	0.047
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-0.07	0.049	0.067
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	136100	680.5	1	24.61	26.00	1.377	-0.11	0.031	0.043
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	136100	680.5	1	22.76	24.00	1.330	-0.18	0.458	0.609
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	136100	680.5	1	22.76	24.00	1.330	0.04	0.088	0.117
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	136100	680.5	1	22.76	24.00	1.330	-0.06	0.419	0.557
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	136100	680.5	1	22.76	24.00	1.330	-0.16	0.070	0.093
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	136100	680.5	1	22.62	24.00	1.374	-0.04	0.510	0.701
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	136100	680.5	1	22.62	24.00	1.374	0.03	0.102	0.140
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	136100	680.5	1	22.62	24.00	1.374	-0.06	0.450	0.618
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	136100	680.5	1	22.62	24.00	1.374	-0.17	0.083	0.114
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	136100	680.5	1	20.73	22.00	1.340	0.12	0.258	0.346
	FR1 n71	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	136100	680.5	1	20.73	22.00	1.340	-0.08	0.049	0.066
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	136100	680.5	1	20.73	22.00	1.340	0.02	0.236	0.316
	FR1 n71	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	136100	680.5	1	20.73	22.00	1.340	0.16	0.039	0.052
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	136100	680.5	1	20.53	22.00	1.403	0.12	0.287	0.403
	FR1 n71	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	136100	680.5	1	20.53	22.00	1.403	0.05	0.057	0.080
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	136100	680.5	1	20.53	22.00	1.403	-0.08	0.253	0.355
	FR1 n71	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	136100	680.5	1	20.53	22.00	1.403	-0.1	0.047	0.066
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-0.08	0.120	0.167
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-0.04	0.062	0.086
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-0.02	0.085	0.118
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	24.57	26.00	1.390	-0.17	0.053	0.074
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-0.15	0.099	0.137
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-0.02	0.052	0.072
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-0.04	0.071	0.098
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	State 6/7	23095	707.5	1	23.58	25.00	1.387	-0.16	0.042	0.058
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	23095	707.5	1	22.56	24.00	1.393	0.03	0.534	0.744
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	23095	707.5	1	22.56	24.00	1.393	0.04	0.136	0.189
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	23095	707.5	1	22.56	24.00	1.393	0.03	0.526	0.733
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	23095	707.5	1	22.56	24.00	1.393	-0.12	0.101	0.141
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6	23095	707.5	1	21.50	23.00	1.413	-0.11	0.436	0.616
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6	23095	707.5	1	21.50	23.00	1.413	0.02	0.111	0.157
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6	23095	707.5	1	21.50	23.00	1.413	0.01	0.430	0.607
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6	23095	707.5	1	21.50	23.00	1.413	-0.17	0.082	0.116
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	23095	707.5	1	18.97	20.50	1.422	-0.04	0.230	0.327
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	23095	707.5	1	18.97	20.50	1.422	0.01	0.061	0.087
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	23095	707.5	1	18.97	20.50	1.422	-0.1	0.230	0.327
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	23095	707.5	1	18.97	20.50	1.422	-0.14	0.045	0.064

LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 7	23095	707.5	1	17.96	19.50	1.426	0.02	0.188	0.268
LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 7	23095	707.5	1	17.96	19.50	1.426	0.16	0.040	0.057
LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 7	23095	707.5	1	17.96	19.50	1.426	-0.15	0.162	0.231
LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 7	23095	707.5	1	17.96	19.50	1.426	0.07	0.032	0.046
835MHz																		
LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	State 6	20525	836.5	1	24.15	26.00	1.531	-0.14	0.092	0.141
LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	State 6	20525	836.5	1	24.15	26.00	1.531	0.04	0.048	0.073
LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	State 6	20525	836.5	1	24.15	26.00	1.531	0.03	0.047	0.072
LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	State 6	20525	836.5	1	24.15	26.00	1.531	-0.14	0.039	0.060
LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	State 6	20525	836.5	1	23.15	25.00	1.531	-0.12	0.073	0.112
LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	State 6	20525	836.5	1	23.15	25.00	1.531	-0.02	0.038	0.058
LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	State 6	20525	836.5	1	23.15	25.00	1.531	-0.04	0.029	0.044
LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	State 6	20525	836.5	1	23.15	25.00	1.531	-0.16	0.031	0.047
LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	20525	836.5	1	22.64	24.50	1.535	0.05	0.523	0.803
LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	20525	836.5	1	22.64	24.50	1.535	0.02	0.098	0.150
LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	20525	836.5	1	22.64	24.50	1.535	-0.04	0.515	0.790
LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	20525	836.5	1	22.64	24.50	1.535	-0.1	0.079	0.121
LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6	20525	836.5	1	21.59	23.50	1.552	-0.13	0.408	0.633
LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6	20525	836.5	1	21.59	23.50	1.552	-0.01	0.086	0.134
LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6	20525	836.5	1	21.59	23.50	1.552	-0.07	0.388	0.602
LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6	20525	836.5	1	21.59	23.50	1.552	-0.15	0.068	0.106
LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	20525	836.5	1	18.72	20.50	1.507	-0.13	0.216	0.325
LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	20525	836.5	1	18.72	20.50	1.507	0.08	0.040	0.060
LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	20525	836.5	1	18.72	20.50	1.507	0.1	0.212	0.319
LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	20525	836.5	1	18.72	20.50	1.507	0	0.033	0.050
LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 7	20525	836.5	1	17.61	19.50	1.545	0.09	0.168	0.260
LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 7	20525	836.5	1	17.61	19.50	1.545	0.04	0.035	0.054
LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 7	20525	836.5	1	17.61	19.50	1.545	-0.11	0.160	0.247
LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 7	20525	836.5	1	17.61	19.50	1.545	0.11	0.028	0.043
FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	167300	836.5	1	24.71	26.00	1.346	-0.12	0.051	0.069
FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	167300	836.5	1	24.71	26.00	1.346	0.06	0.023	0.031
FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	167300	836.5	1	24.71	26.00	1.346	-0.01	0.024	0.032
FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	167300	836.5	1	24.71	26.00	1.346	-0.13	0.020	0.027
FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	State 6/7	167300	836.5	1	24.52	26.00	1.406	-0.14	0.061	0.086
FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	State 6/7	167300	836.5	1	24.52	26.00	1.406	0.04	0.025	0.035
FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	State 6/7	167300	836.5	1	24.52	26.00	1.406	-0.05	0.030	0.042
FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	State 6/7	167300	836.5	1	24.52	26.00	1.406	-0.1	0.021	0.030
FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	167300	836.5	1	22.73	24.00	1.340	-0.1	0.511	0.685
FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	167300	836.5	1	22.73	24.00	1.340	-0.02	0.138	0.185
FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	167300	836.5	1	22.73	24.00	1.340	-0.07	0.478	0.640
FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	167300	836.5	1	22.73	24.00	1.340	-0.15	0.116	0.155
FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	167300	836.5	1	22.68	24.00	1.355	-0.08	0.527	0.714
FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	167300	836.5	1	22.68	24.00	1.355	-0.04	0.146	0.198
FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	167300	836.5	1	22.68	24.00	1.355	0.01	0.495	0.671
FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	167300	836.5	1	22.68	24.00	1.355	-0.09	0.122	0.165
FR1 n5	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	167300	836.5	1	19.73	21.00	1.340	0.1	0.261	0.350
FR1 n5	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	167300	836.5	1	19.73	21.00	1.340	-0.12	0.070	0.094
FR1 n5	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	167300	836.5	1	19.73	21.00	1.340	-0.14	0.244	0.327
FR1 n5	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	167300	836.5	1	19.73	21.00	1.340	0.02	0.059	0.079
FR1 n5	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	167300	836.5	1	19.72	21.00	1.343	0.07	0.269	0.361
FR1 n5	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	167300	836.5	1	19.72	21.00	1.343	-0.13	0.075	0.101
FR1 n5	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	167300	836.5	1	19.72	21.00	1.343	0.11	0.253	0.340
FR1 n5	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	167300	836.5	1	19.72	21.00	1.343	-0.02	0.062	0.083
1750MHz																		
LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	0.05	0.013	0.016
LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	0.12	0.005	0.006

	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	0.02	0.030	0.038
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	132322	1745	1	25.01	26.00	1.256	0.017	0.007	0.009
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	0.04	0.010	0.013
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	-0.02	0.004	0.005
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	-0.08	0.024	0.030
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	132322	1745	1	24.00	25.00	1.259	0.07	0.006	0.008
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-0.13	0.461	0.579
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	0.01	0.171	0.215
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-0.09	0.694	0.872
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	132322	1745	1	25.01	26.00	1.256	-0.02	0.186	0.234
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132072	1720	1	24.98	26.00	1.265	-0.04	0.635	0.803
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	132572	1770	1	24.87	26.00	1.297	-0.18	0.611	0.793
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-0.13	0.334	0.420
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	0.02	0.138	0.174
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-0.04	0.496	0.624
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	132322	1745	1	24.00	25.00	1.259	-0.14	0.152	0.191
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 2	State 6	132322	1745	1	23.95	25.00	1.274	0.06	0.475	0.605
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	132322	1745	1	21.50	22.50	1.259	0.09	0.163	0.205
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	132322	1745	1	21.50	22.50	1.259	0.15	0.061	0.077
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	132322	1745	1	21.50	22.50	1.259	-0.01	0.246	0.310
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	132322	1745	1	21.50	22.50	1.259	0.15	0.066	0.083
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	132322	1745	1	20.46	21.50	1.271	-0.12	0.118	0.150
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	132322	1745	1	20.46	21.50	1.271	-0.06	0.049	0.062
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	132322	1745	1	20.46	21.50	1.271	0.01	0.176	0.224
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	132322	1745	1	20.46	21.50	1.271	-0.09	0.054	0.069
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 6	132322	1745	1	17.48	19.00	1.419	-0.09	0.362	0.514
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 6	132322	1745	1	17.48	19.00	1.419	-0.13	0.201	0.285
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 6	132322	1745	1	17.48	19.00	1.419	-0.14	0.148	0.210
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 6	132322	1745	1	17.48	19.00	1.419	0.12	0.081	0.115
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 6	132322	1745	1	16.33	18.00	1.469	-0.07	0.288	0.423
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 6	132322	1745	1	16.33	18.00	1.469	-0.07	0.160	0.235
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 6	132322	1745	1	16.33	18.00	1.469	-0.16	0.118	0.173
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 6	132322	1745	1	16.33	18.00	1.469	0.14	0.058	0.085
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	State 7	132322	1745	1	16.50	18.00	1.413	-0.09	0.282	0.398
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	State 7	132322	1745	1	16.50	18.00	1.413	-0.13	0.155	0.219
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	State 7	132322	1745	1	16.50	18.00	1.413	-0.14	0.098	0.138
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	State 7	132322	1745	1	16.50	18.00	1.413	0.12	0.071	0.100
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	State 7	132322	1745	1	15.35	17.00	1.462	-0.07	0.204	0.298
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	State 7	132322	1745	1	15.35	17.00	1.462	-0.07	0.112	0.164
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	State 7	132322	1745	1	15.35	17.00	1.462	-0.16	0.076	0.111
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	State 7	132322	1745	1	15.35	17.00	1.462	0.14	0.052	0.076
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	0.02	0.037	0.048
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	0.05	0.012	0.016
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	0.03	0.049	0.064
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.87	26.00	1.297	-0.19	0.035	0.045
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-0.05	0.042	0.055
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	0.02	0.008	0.010
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-0.07	0.047	0.061
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	349000	1745	1	24.85	26.00	1.303	-0.16	0.041	0.053
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-0.18	0.432	0.560
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	0.01	0.170	0.221
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-0.06	0.542	0.703
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	349000	1745	1	24.87	26.00	1.297	-0.17	0.183	0.237
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-0.12	0.430	0.560
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	0.07	0.171	0.223
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-0.08	0.523	0.682

	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 2	State 6	349000	1745	1	24.85	26.00	1.303	-0.11	0.192	0.250
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	349000	1745	1	22.32	23.50	1.312	0.06	0.243	0.319
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	349000	1745	1	22.32	23.50	1.312	0.14	0.096	0.126
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	349000	1745	1	22.32	23.50	1.312	-0.07	0.305	0.400
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	349000	1745	1	22.32	23.50	1.312	0.15	0.103	0.135
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 2	State 7	349000	1745	1	22.25	23.50	1.334	0.05	0.242	0.323
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 2	State 7	349000	1745	1	22.25	23.50	1.334	0.03	0.096	0.128
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 2	State 7	349000	1745	1	22.25	23.50	1.334	0.06	0.294	0.392
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 2	State 7	349000	1745	1	22.25	23.50	1.334	0.16	0.108	0.144
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	349000	1745	1	20.72	22.00	1.343	-0.11	0.573	0.769
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 6	349000	1745	1	20.72	22.00	1.343	0.05	0.265	0.356
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 6	349000	1745	1	20.72	22.00	1.343	-0.06	0.298	0.400
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 6	349000	1745	1	20.72	22.00	1.343	-0.17	0.161	0.216
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 7	State 6	349000	1745	1	20.51	22.00	1.409	-0.08	0.554	0.781
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 7	State 6	349000	1745	1	20.51	22.00	1.409	0.02	0.282	0.397
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 7	State 6	349000	1745	1	20.51	22.00	1.409	-0.02	0.304	0.428
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 7	State 6	349000	1745	1	20.51	22.00	1.409	-0.13	0.174	0.245
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 7	349000	1745	1	18.15	19.50	1.365	0.16	0.287	0.392
	FR1 n66	30M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 7	349000	1745	1	18.15	19.50	1.365	-0.12	0.106	0.145
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 7	349000	1745	1	18.15	19.50	1.365	-0.1	0.125	0.171
	FR1 n66	30M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 7	349000	1745	1	18.15	19.50	1.365	0.08	0.095	0.130
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Cheek	0mm	Ant 7	State 7	349000	1745	1	17.76	19.50	1.493	-0.09	0.285	0.425
	FR1 n66	30M	QPSK	80	40	DFT-15	Right Tilted	0mm	Ant 7	State 7	349000	1745	1	17.76	19.50	1.493	-0.05	0.116	0.173
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Cheek	0mm	Ant 7	State 7	349000	1745	1	17.76	19.50	1.493	0.07	0.129	0.193
	FR1 n66	30M	QPSK	80	40	DFT-15	Left Tilted	0mm	Ant 7	State 7	349000	1745	1	17.76	19.50	1.493	0.02	0.102	0.152
1900MHz																			
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	18900	1880	1	25.00	26.00	1.259	-0.15	0.094	0.118
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	18900	1880	1	25.00	26.00	1.259	-0.01	0.068	0.086
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	18900	1880	1	25.00	26.00	1.259	0.15	0.150	0.189
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	18900	1880	1	25.00	26.00	1.259	-0.08	0.081	0.102
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	18900	1880	1	23.95	25.00	1.274	0.12	0.071	0.090
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	18900	1880	1	23.95	25.00	1.274	-0.03	0.052	0.066
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	18900	1880	1	23.95	25.00	1.274	-0.06	0.108	0.138
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	18900	1880	1	23.95	25.00	1.274	-0.08	0.062	0.079
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	18900	1880	1	25.00	26.00	1.259	-0.17	0.594	0.748
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	18900	1880	1	25.00	26.00	1.259	-0.04	0.119	0.150
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	18900	1880	1	25.00	26.00	1.259	-0.17	0.624	0.786
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	18900	1880	1	25.00	26.00	1.259	0.03	0.162	0.204
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	18900	1880	1	23.95	25.00	1.274	0.02	0.455	0.579
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	18900	1880	1	23.95	25.00	1.274	0.07	0.099	0.126
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	18900	1880	1	23.95	25.00	1.274	0.17	0.487	0.620
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	18900	1880	1	23.95	25.00	1.274	-0.13	0.125	0.159
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	18900	1880	1	21.03	22.00	1.250	0.06	0.241	0.301
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	18900	1880	1	21.03	22.00	1.250	-0.01	0.049	0.061
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	18900	1880	1	21.03	22.00	1.250	0.04	0.252	0.315
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	18900	1880	1	21.03	22.00	1.250	-0.01	0.065	0.081
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	18900	1880	1	19.91	21.00	1.285	0.11	0.184	0.236
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	18900	1880	1	19.91	21.00	1.285	-0.01	0.038	0.049
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	18900	1880	1	19.91	21.00	1.285	-0.15	0.199	0.256
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	18900	1880	1	19.91	21.00	1.285	-0.04	0.050	0.064
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-0.13	0.091	0.113
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	0.07	0.069	0.086
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-0.06	0.113	0.140
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	25.06	26.00	1.242	-0.19	0.068	0.084
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-0.07	0.097	0.125
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	0.06	0.067	0.086

	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-0.01	0.115	0.148
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	376500	1882.5	1	24.91	26.00	1.285	-0.15	0.068	0.087
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	376500	1882.5	1	24.03	25.00	1.250	-0.14	0.366	0.458
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	376500	1882.5	1	24.03	25.00	1.250	-0.04	0.098	0.123
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	376500	1882.5	1	24.03	25.00	1.250	-0.17	0.536	0.670
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	376500	1882.5	1	24.03	25.00	1.250	0.04	0.104	0.130
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	376500	1882.5	1	23.96	25.00	1.271	-0.13	0.376	0.478
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	376500	1882.5	1	23.96	25.00	1.271	0.04	0.100	0.127
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	376500	1882.5	1	23.96	25.00	1.271	-0.01	0.523	0.665
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	376500	1882.5	1	23.96	25.00	1.271	-0.07	0.103	0.131
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	376500	1882.5	1	21.47	22.50	1.268	-0.05	0.206	0.261
	FR1 n25	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	376500	1882.5	1	21.47	22.50	1.268	0.02	0.055	0.070
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	376500	1882.5	1	21.47	22.50	1.268	0.11	0.301	0.382
	FR1 n25	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	376500	1882.5	1	21.47	22.50	1.268	-0.14	0.058	0.074
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	376500	1882.5	1	21.43	22.50	1.279	-0.12	0.211	0.270
	FR1 n25	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	376500	1882.5	1	21.43	22.50	1.279	-0.15	0.056	0.072
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	376500	1882.5	1	21.43	22.50	1.279	0.02	0.294	0.376
	FR1 n25	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	376500	1882.5	1	21.43	22.50	1.279	-0.1	0.058	0.074
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	376000	1880	1	19.12	20.00	1.225	-0.11	0.624	0.764
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 6	376000	1880	1	19.12	20.00	1.225	-0.04	0.342	0.419
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 6	376000	1880	1	19.12	20.00	1.225	-0.15	0.245	0.300
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 6	376000	1880	1	19.12	20.00	1.225	-0.02	0.161	0.197
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 7	State 6	376000	1880	1	19.10	20.00	1.230	-0.08	0.555	0.683
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 7	State 6	376000	1880	1	19.10	20.00	1.230	-0.04	0.336	0.413
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 7	State 6	376000	1880	1	19.10	20.00	1.230	-0.08	0.253	0.311
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 7	State 6	376000	1880	1	19.10	20.00	1.230	0.01	0.154	0.189
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 7	376000	1880	1	17.11	18.00	1.227	0.13	0.353	0.433
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 7	376000	1880	1	17.11	18.00	1.227	-0.11	0.171	0.210
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 7	376000	1880	1	17.11	18.00	1.227	0.04	0.158	0.194
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 7	376000	1880	1	17.11	18.00	1.227	0.07	0.104	0.128
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 7	State 7	376000	1880	1	16.91	18.00	1.285	-0.05	0.308	0.396
	FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 7	State 7	376000	1880	1	16.91	18.00	1.285	0.03	0.167	0.215
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 7	State 7	376000	1880	1	16.91	18.00	1.285	-0.14	0.163	0.210
	FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 7	State 7	376000	1880	1	16.91	18.00	1.285	-0.12	0.099	0.127
2300MHz																			
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-0.12	0.039	0.045
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	0.01	0.025	0.029
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-0.04	0.043	0.050
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	27710	2310	1	22.88	23.50	1.153	-0.18	0.021	0.024
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	-0.1	0.031	0.036
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	0.07	0.015	0.018
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	0.01	0.035	0.041
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	State 6/7	27710	2310	1	21.82	22.50	1.169	-0.11	0.014	0.016
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	27710	2310	1	22.88	23.50	1.153	-0.09	0.470	0.542
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	27710	2310	1	22.88	23.50	1.153	0.01	0.176	0.203
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	27710	2310	1	22.88	23.50	1.153	0.01	0.193	0.223
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	27710	2310	1	22.88	23.50	1.153	-0.16	0.043	0.050
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 6	27710	2310	1	21.82	22.50	1.169	-0.1	0.337	0.394
	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 6	27710	2310	1	21.82	22.50	1.169	-0.04	0.104	0.122
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 6	27710	2310	1	21.82	22.50	1.169	-0.05	0.145	0.170
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 6	27710	2310	1	21.82	22.50	1.169	-0.12	0.036	0.042
	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	27710	2310	1	22.08	22.50	1.102	-0.09	0.370	0.408
	LTE Band 30	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	27710	2310	1	22.08	22.50	1.102	0.01	0.136	0.150
	LTE Band 30	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	27710	2310	1	22.08	22.50	1.102	0.01	0.142	0.156
	LTE Band 30	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	27710	2310	1	22.08	22.50	1.102	-0.16	0.032	0.035
	LTE Band 30	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 2	State 7	27710	2310	1	21.02	21.50	1.117	-0.1	0.297	0.332

	LTE Band 30	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 2	State 7	27710	2310	1	21.02	22.50	1.406	-0.04	0.087	0.122
	LTE Band 30	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 2	State 7	27710	2310	1	21.02	22.50	1.406	-0.05	0.095	0.134
	LTE Band 30	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 2	State 7	27710	2310	1	21.02	22.50	1.406	-0.12	0.028	0.039
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 6	462000	2310	1	18.95	20.50	1.429	-0.07	0.523	0.747
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 6	462000	2310	1	18.95	20.50	1.429	-0.01	0.377	0.539
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 6	462000	2310	1	18.95	20.50	1.429	0.03	0.163	0.233
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 6	462000	2310	1	18.95	20.50	1.429	-0.11	0.130	0.186
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 7	State 6	462000	2310	1	18.75	20.50	1.496	-0.15	0.456	0.682
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 7	State 6	462000	2310	1	18.75	20.50	1.496	0.05	0.365	0.546
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 7	State 6	462000	2310	1	18.75	20.50	1.496	0.03	0.159	0.238
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 7	State 6	462000	2310	1	18.75	20.50	1.496	-0.17	0.126	0.189
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 7	State 7	462000	2310	1	16.94	18.50	1.432	0.15	0.288	0.412
	FR1 n30	10M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 7	State 7	462000	2310	1	16.94	18.50	1.432	0.12	0.193	0.276
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 7	State 7	462000	2310	1	16.94	18.50	1.432	-0.02	0.105	0.150
	FR1 n30	10M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 7	State 7	462000	2310	1	16.94	18.50	1.432	0.07	0.084	0.120
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Cheek	0mm	Ant 7	State 7	462000	2310	1	16.84	18.50	1.466	0.02	0.244	0.358
	FR1 n30	10M	QPSK	25	14	DFT-15	Right Tilted	0mm	Ant 7	State 7	462000	2310	1	16.84	18.50	1.466	-0.1	0.186	0.273
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Cheek	0mm	Ant 7	State 7	462000	2310	1	16.84	18.50	1.466	0.1	0.103	0.151
	FR1 n30	10M	QPSK	25	14	DFT-15	Left Tilted	0mm	Ant 7	State 7	462000	2310	1	16.84	18.50	1.466	-0.09	0.081	0.119
2600MHz																			
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	-0.1	0.047	0.059
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	-0.04	0.042	0.053
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	0.05	0.052	0.065
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	State 6/7	21100	2535	1	25.03	26.00	1.250	0.05	0.013	0.016
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	-0.09	0.038	0.048
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	0.06	0.031	0.039
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	0.04	0.040	0.051
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	State 6/7	21100	2535	1	23.98	25.00	1.265	0.02	0.009	0.011
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 6	21100	2535	1	18.01	19.00	1.256	-0.18	0.591	0.742
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 6	21100	2535	1	18.01	19.00	1.256	0.05	0.101	0.127
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 6	21100	2535	1	18.01	19.00	1.256	-0.08	0.172	0.216
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 6	21100	2535	1	18.01	19.00	1.256	0.05	0.035	0.044
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 6	21100	2535	1	16.89	18.00	1.291	-0.12	0.488	0.630
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 6	21100	2535	1	16.89	18.00	1.291	-0.03	0.086	0.111
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 6	21100	2535	1	16.89	18.00	1.291	-0.09	0.145	0.187
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 6	21100	2535	1	16.89	18.00	1.291	-0.02	0.028	0.036
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 2	State 7	21100	2535	1	15.25	16.00	1.189	0.06	0.338	0.402
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 2	State 7	21100	2535	1	15.25	16.00	1.189	0.01	0.052	0.062
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 2	State 7	21100	2535	1	15.25	16.00	1.189	-0.01	0.071	0.084
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 2	State 7	21100	2535	1	15.25	16.00	1.189	0.03	0.010	0.012
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 2	State 7	21100	2535	1	14.18	15.00	1.208	-0.15	0.213	0.257
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 2	State 7	21100	2535	1	14.18	15.00	1.208	0.09	0.045	0.054
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 2	State 7	21100	2535	1	14.18	15.00	1.208	-0.09	0.059	0.071
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 2	State 7	21100	2535	1	14.18	15.00	1.208	0.05	0.007	0.008
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	-0.14	0.052	0.066
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	0.04	0.041	0.052
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	-0.08	0.069	0.087
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.97	26.00	1.268	0.01	0.009	0.011
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	-0.15	0.048	0.062
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	-0.04	0.038	0.049
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	0.01	0.067	0.086
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 1	State 6/7	507000	2535	1	24.91	26.00	1.285	0.05	0.004	0.005
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2535	1	17.95	19.00	1.274	-0.14	0.627	0.798
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 6	507000	2535	1	17.95	19.00	1.274	-0.18	0.093	0.118
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 6	507000	2535	1	17.95	19.00	1.274	-0.15	0.174	0.222
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 6	507000	2535	1	17.95	19.00	1.274	0.02	0.051	0.065

	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 6	507000	2535	1	17.85	19.00	1.303	-0.18	0.603	0.786
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 6	507000	2535	1	17.85	19.00	1.303	-0.01	0.095	0.124
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 6	507000	2535	1	17.85	19.00	1.303	0.01	0.180	0.235
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 6	507000	2535	1	17.85	19.00	1.303	-0.17	0.052	0.068
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 2	State 7	507000	2535	1	15.93	17.00	1.279	0.02	0.346	0.443
	FR1 n7	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 2	State 7	507000	2535	1	15.93	17.00	1.279	0.13	0.033	0.042
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 2	State 7	507000	2535	1	15.93	17.00	1.279	-0.07	0.047	0.060
	FR1 n7	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 2	State 7	507000	2535	1	15.93	17.00	1.279	0.03	0.011	0.014
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 2	State 7	507000	2535	1	15.85	17.00	1.303	0.13	0.330	0.430
	FR1 n7	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 2	State 7	507000	2535	1	15.85	17.00	1.303	0.1	0.060	0.078
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 2	State 7	507000	2535	1	15.85	17.00	1.303	0.09	0.114	0.149
	FR1 n7	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 2	State 7	507000	2535	1	15.85	17.00	1.303	0.01	0.009	0.012
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-0.1	0.048	0.062
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-0.14	0.039	0.050
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-0.03	0.100	0.129
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.88	26.00	1.294	-0.03	0.035	0.045
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	-0.17	0.047	0.063
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	-0.1	0.040	0.054
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	0.01	0.099	0.133
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	24.71	26.00	1.346	0.03	0.036	0.048
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.33	17.50	1.309	-0.16	0.573	0.750
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.33	17.50	1.309	-0.07	0.249	0.326
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.33	17.50	1.309	0.04	0.113	0.148
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.33	17.50	1.309	-0.11	0.084	0.110
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.25	17.50	1.334	-0.08	0.535	0.713
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.25	17.50	1.334	-0.04	0.230	0.307
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.25	17.50	1.334	-0.06	0.096	0.128
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.25	17.50	1.334	-0.17	0.067	0.089
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.29	15.50	1.321	0.1	0.310	0.410
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.29	15.50	1.321	0.07	0.106	0.140
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.29	15.50	1.321	-0.04	0.071	0.094
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.29	15.50	1.321	-0.04	0.053	0.070
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.22	15.50	1.343	0.14	0.286	0.384
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.22	15.50	1.343	-0.04	0.094	0.126
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.22	15.50	1.343	-0.04	0.060	0.081
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.22	15.50	1.343	-0.15	0.042	0.056
3000MHz																			
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-0.1	0.160	0.233
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-0.17	0.154	0.225
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-0.03	0.261	0.381
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.36	26.00	1.459	-0.07	0.086	0.125
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	-0.07	0.154	0.230
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	-0.15	0.129	0.193
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	0.07	0.242	0.362
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	656000	3840	1	24.25	26.00	1.496	0.02	0.082	0.123
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-0.15	0.075	0.105
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	-0.15	0.074	0.104
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	0.03	0.156	0.219
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.53	26.00	1.403	0.03	0.065	0.091
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-0.09	0.069	0.100
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-0.17	0.066	0.096
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-0.01	0.123	0.178
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	633332	3499.98	1	24.39	26.00	1.449	-0.04	0.046	0.067
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	656000	3840	1	18.32	20.00	1.472	-0.17	0.402	0.592
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	656000	3840	1	18.32	20.00	1.472	-0.07	0.361	0.532
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	656000	3840	1	18.32	20.00	1.472	0.07	0.130	0.191

	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	656000	3840	1	18.32	20.00	1.472	-0.06	0.120	0.177
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	656000	3840	1	18.30	20.00	1.479	-0.14	0.321	0.475
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	656000	3840	1	18.30	20.00	1.479	-0.12	0.257	0.380
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	656000	3840	1	18.30	20.00	1.479	0.02	0.092	0.136
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	656000	3840	1	18.30	20.00	1.479	-0.03	0.083	0.123
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	656000	3840	1	16.32	18.00	1.472	-0.11	0.254	0.374
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	656000	3840	1	16.32	18.00	1.472	0.14	0.228	0.336
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	656000	3840	1	16.32	18.00	1.472	0.02	0.082	0.121
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	656000	3840	1	16.32	18.00	1.472	-0.01	0.076	0.112
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 7	656000	3840	1	16.29	18.00	1.483	0.07	0.203	0.301
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 7	656000	3840	1	16.29	18.00	1.483	0.06	0.162	0.240
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 7	656000	3840	1	16.29	18.00	1.483	-0.16	0.058	0.086
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 7	656000	3840	1	16.29	18.00	1.483	0	0.052	0.077
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	18.42	20.00	1.439	-0.18	0.547	0.787
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	633332	3499.98	1	18.42	20.00	1.439	-0.07	0.373	0.537
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	633332	3499.98	1	18.42	20.00	1.439	0.03	0.194	0.279
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	633332	3499.98	1	18.42	20.00	1.439	-0.08	0.169	0.243
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	18.41	20.00	1.442	-0.08	0.532	0.767
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	633332	3499.98	1	18.41	20.00	1.442	-0.01	0.355	0.512
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	633332	3499.98	1	18.41	20.00	1.442	0.02	0.184	0.265
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	633332	3499.98	1	18.41	20.00	1.442	-0.16	0.153	0.221
	FR1 n77	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	State 6	633332	3499.98	1	18.40	20.00	1.445	0.02	0.504	0.729
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	633332	3499.98	1	16.42	18.00	1.439	-0.02	0.288	0.414
	FR1 n77	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	633332	3499.98	1	16.42	18.00	1.439	0.06	0.175	0.252
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	633332	3499.98	1	16.42	18.00	1.439	0.07	0.062	0.089
	FR1 n77	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	633332	3499.98	1	16.42	18.00	1.439	-0.16	0.047	0.068
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 7	633332	3499.98	1	16.36	18.00	1.459	0.02	0.276	0.403
	FR1 n77	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 7	633332	3499.98	1	16.36	18.00	1.459	0.08	0.164	0.239
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 7	633332	3499.98	1	16.36	18.00	1.459	-0.03	0.056	0.082
	FR1 n77	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 7	633332	3499.98	1	16.36	18.00	1.459	0.02	0.048	0.070

<UL MIMO 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)
2600MHz																					
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 1	State 6/7	518598	2592.99	1	21.65	23.00	1.365	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 1	State 6/7	518598	2592.99	1	21.65	23.00	1.365	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	State 6/7	518598	2592.99	1	21.65	23.00	1.365	-	-	0.03	0.025	0.034
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 1	State 6/7	518598	2592.99	1	23.12	24.50	1.374	50	1.000	0.02	0.018	0.025
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 1	State 6/7	518598	2592.99	1	21.65	23.00	1.365	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 1	State 6/7	518598	2592.99	1	21.63	23.00	1.371	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 1	State 6/7	518598	2592.99	1	21.63	23.00	1.371	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 1	State 6/7	518598	2592.99	1	21.63	23.00	1.371	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 1	State 6/7	518598	2592.99	1	21.63	23.00	1.371	-	-	-	n/a	n/a
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	State 6	518598	2592.99	1	16.63	18.00	1.371	-	-	-0.07	0.486	0.666
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	State 6	518598	2592.99	1	16.63	18.00	1.371	-	-	-0.08	0.112	0.154
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	State 6	518598	2592.99	1	16.63	18.00	1.371	-	-	-0.02	0.191	0.262
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	State 6	518598	2592.99	1	16.63	18.00	1.371	-	-	-0.07	0.040	0.055
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	State 6	518598	2592.99	1	16.54	18.00	1.400	-	-	-0.17	0.535	0.749
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	State 6	518598	2592.99	1	16.54	18.00	1.400	-	-	-0.07	0.110	0.154
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	State 6	518598	2592.99	1	16.54	18.00	1.400	-	-	-0.04	0.179	0.251
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	State 6	518598	2592.99	1	16.54	18.00	1.400	-	-	-0.05	0.052	0.073
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	State 6	518598	2592.99	1	18.15	19.50	1.365	50	1.000	-0.17	0.428	0.584
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 2	State 6	518598	2592.99	1	16.51	18.00	1.409	-	-	0.03	0.425	0.599
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 2	State 7	518598	2592.99	1	14.60	16.00	1.380	-	-	-0.12	0.307	0.424
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 2	State 7	518598	2592.99	1	14.60	16.00	1.380	-	-	-0.03	0.071	0.098
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 2	State 7	518598	2592.99	1	14.60	16.00	1.380	-	-	0.03	0.121	0.167
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 2	State 7	518598	2592.99	1	14.60	16.00	1.380	-	-	-0.19	0.025	0.035
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	State 7	518598	2592.99	1	14.49	16.00	1.416	-	-	0.12	0.308	0.436
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 2	State 7	518598	2592.99	1	14.49	16.00	1.416	-	-	0.11	0.069	0.098
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 2	State 7	518598	2592.99	1	14.49	16.00	1.416	-	-	-0.15	0.113	0.160
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 2	State 7	518598	2592.99	1	14.49	16.00	1.416	-	-	0.18	0.033	0.047
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 2	State 7	518598	2592.99	1	16.08	17.50	1.387	50	1.000	0.12	0.267	0.370
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	21.51	23.00	1.409	-	-	0.02	0.027	0.038
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	21.51	23.00	1.409	-	-	0.15	0.022	0.031
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	21.51	23.00	1.409	-	-	0.01	0.056	0.079
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	21.51	23.00	1.409	-	-	0.08	0.020	0.028
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	21.46	23.00	1.426	-	-	0.15	0.027	0.038
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	21.46	23.00	1.426	-	-	0.02	0.023	0.033
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	21.46	23.00	1.426	-	-	-0.05	0.056	0.080
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 8	State 6/7	518598	2592.99	1	22.95	24.50	1.429	-	-	0.02	0.042	0.060
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 8	State 6/7	518598	2592.99	1	21.46	23.00	1.426	-	-	-0.17	0.020	0.029
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.41	17.50	1.285	-	-	-0.16	0.623	0.801
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.41	17.50	1.285	-	-	-0.07	0.265	0.341
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.41	17.50	1.285	-	-	0.04	0.120	0.154
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.41	17.50	1.285	-	-	-0.11	0.089	0.114
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	17.66	19.00	1.361	50	1.000	-0.16	0.425	0.579
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.40	17.50	1.288	-	-	-0.08	0.589	0.759
	FR1 n41	100M	QPSK	135	69	DFT-30	Right Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.40	17.50	1.288	-	-	-0.04	0.254	0.327
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.40	17.50	1.288	-	-	-0.06	0.105	0.135
	FR1 n41	100M	QPSK	135	69	DFT-30	Left Tilted	0mm	Ant 7	State 6	518598	2592.99	1	16.40	17.50	1.288	-	-	-0.17	0.074	0.095
	FR1 n41	100M	QPSK	270	0	DFT-30	Right Cheek	0mm	Ant 7	State 6	518598	2592.99	1	16.39	17.50	1.291	-	-	0.05	0.573	0.740
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.42	15.50	1.282	-	-	-0.14	0.316	0.405
	FR1 n41	100M	QPSK	1	1	DFT-30	Right Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.42	15.50	1.282	-	-	-0.19	0.097	0.124
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Cheek	0mm	Ant 7	State 7	518598	2592.99	1	14.42	15.50	1.282	-	-	0.07	0.076	0.097
	FR1 n41	100M	QPSK	1	1	DFT-30	Left Tilted	0mm	Ant 7	State 7	518598	2592.99	1	14.42	15.50	1.282	-	-	0.19	0.056	0.072