FCC SAR Test Report

APPLICANT	: Xiaomi Communications Co., Ltd.
EQUIPMENT	: Mobile Phone
BRAND NAME	: Xiaomi
MODEL NAME	: 25010PN30G
FCC ID	: 2AFZZPN30G
STANDARD	: FCC 47 CFR Part 2 (2.1093)

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

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

Si Zhang

Approved by: Si Zhang

ACCREDITED
Cert #5145.02

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

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA4O2501	Rev. 01	Initial issue of report.	Dec. 11, 2024

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Xiaomi Communications Co., Ltd., Mobile Phone, 25010PN30G,** 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	0.93	0.96	0.74	1.59
		GSM1900	1.08	0.46	0.24	
	WCDMA	WCDMA II	1.08	1.00	0.48	
		WCDMA IV	1.08	0.98	0.49	
		WCDMA V	0.82	0.95	0.44	
	LTE	LTE Band 2	1.08	**1.09**	0.49	
		LTE Band 4	**1.09**	0.83	0.71	
		LTE Band 5	0.99	0.76	0.46	
		LTE Band 7	1.05	0.62	0.60	
		LTE Band 12/17	0.83	0.72	0.28	
		LTE Band 13	0.76	0.64	0.71	
		LTE Band 25	1.08	0.96	0.44	
		LTE Band 26	0.96	0.79	0.38	
		LTE Band 66	**1.09**	0.79	0.64	
		LTE Band 71	0.39	0.52	0.20	
		LTE Band 38	1.03	0.63	0.38	
		LTE Band 41	1.01	0.77	0.36	
		LTE Band 42	0.66	0.71	0.41	
		LTE Band 48	0.94	0.84	0.33	
	5G NR	FR1 n2	0.98	0.90	0.44	
		FR1 n5	0.81	0.80	0.37	
		FR1 n7	1.00	0.58	0.54	
		FR1 n12	0.82	0.86	0.37	
		FR1 n25	1.05	1.01	0.43	
		FR1 n26	0.73	0.67	0.80	
		FR1 n66	0.97	0.76	0.61	
		FR1 n71	0.84	0.79	0.48	
		FR1 n38	1.01	0.47	0.50	
		FR1 n41	**1.09**	0.63	0.61	
		FR1 n48	1.03	0.66	0.44	
		FR1 n77	1.08	0.63	**1.03**	
		FR1 n78	0.84	0.60	0.64	
DTS	WLAN	2.4GHz WLAN	1.03	0.82	0.25	1.59
NII		5GHz WLAN	**1.09**	1.02	0.87	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.85	0.71	0.16	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	GSM850	1.25	2.37
	WCDMA	WCDMA II	2.36	
		WCDMA IV	2.26	
	LTE	LTE Band 13	1.76	
		LTE Band 26	1.11	
	FR1	FR1 n2	2.05	
		FR1 n12	1.81	
		FR1 n26	1.20	
		FR1 n66	2.01	
		FR1 n71	1.30	
NII	WLAN	5GHz WLAN	**2.37**	2.37
Date of Testing:			2024/11/8~ 2024/11/30	

Remark:

1. This device supports LTE B17 and B12. Since the supported frequency span for LTE B17 falls completely within the supports frequency span for LTE B12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B12.

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

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

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR04-KS, SAR07-KS	CN1257	314309

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

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

3. Guidance Applied

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

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

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Phone
Brand Name	Xiaomi
Model Name	25010PN30G
FCC ID	2AFZZPN30G
IMEI Code	IMEI1: 869203070052261 IMEI2: 869203070052279
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12: 699 MHz ~ 716 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 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 5G NR n78: 3450 MHz ~ 3550 MHz, 3700 MHz ~ 3800 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII-5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII-6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII-7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII-8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz WPT: 115 kHz~145 kHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+(16QAM uplink is supported)

	LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax/be HE20/HE40/EHT20/EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE NFC: ASK WPT: ASK
HW Version	1353000O1
SW Version	Xiaomi HyperOS 2.0
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

Remark:

1. This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN6GHz has no hotspot function.
4. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode.
5. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 33.
6. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
7. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
8. This device supports HPUE mode for 5GNR n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
9. For 5GNR n77/n78 HPUE, 5GNR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
10. For 5GNR, the simultaneous transmission analysis is used standalone SAR at total power level to show compliance.
11. 5G NR n7/n38/n41/n77/n78 supports UL MIMO mode.
12. Bluetooth BR/EDR supports Beamforming mode, and BLE don't supports Beamforming.
13. There are three samples. The difference between them is memory/storage capacity and & back cover: sample 1 is 16+512G memory & Fiberglass back cover, sample 2 is 16+1T memory & Fiberglass back cover and sample 3 is 16+512 memory & Fiberglass + PU back cover. According to the difference, sample 1 was chosen to perform full SAR testing.
14. This device has NFC function and the NFC SAR report will be separately submitted.
15. RF exposure report for WPC (Wireless power charging) will be separately submitted.
16. SAR and Power density test report for WLAN 6GHz U-NII-5/6/7/8 will be separately submitted. About co-located SAR with WWAN/Bluetooth always chose higher SAR of WLAN5GHz U-NII-1/2A/2C/3 and WLAN 6GHz U-NII-5/6/7/8.
17. This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
NSA	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 45
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
SA	n2	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 50
	n12	FDD	15	5, 10, 15
	n25	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n26	FDD	15	5, 10, 15, 20
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40, 45
	n71	FDD	15	5, 10, 15, 20, 25, 30, 35
	n38	TDD	30	10, 15, 20, 25, 30, 40
	n41	TDD	30	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
	n48	TDD	30	10, 15, 20, 30, 40
	n77	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05	
FCC ID	2AFZZPN30G
Equipment Name	Mobile Phone
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM
LTE Voice / Data requirements	Voice and Data
LTE Release Version	R15
CA Support	Supported, Uplink and Downlink
LTE MPR permanently built-in by design	**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3** Modulation / Channel bandwidth / Transmission bandwidth (N_{RB}): 1.4 MHz, 3.0 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz / MPR (dB) QPSK: > 5, > 4, > 8, > 12, > 16, > 18, ≤ 1 16 QAM: ≤ 5, ≤ 4, ≤ 8, ≤ 12, ≤ 16, ≤ 18, ≤ 1 16 QAM: > 5, > 4, > 8, > 12, > 16, > 18, ≤ 2 64 QAM: ≤ 5, ≤ 4, ≤ 8, ≤ 12, ≤ 16, ≤ 18, ≤ 2 64 QAM: > 5, > 4, > 8, > 12, > 16, > 18, ≤ 3 256 QAM: ≥ 1, ≤ 5
LTE A-MPR	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)
Spectrum plots for RB configuration	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.
Power reduction applied to satisfy SAR compliance	Yes, when operating in Proximity sensors/receiver/hotspot detect mechanism, head/body -worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 14.
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 14.
LTE Carrier Aggregation Additional Information	1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band and inter-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. This device supports maximum of 4 carriers in the downlink and 2 carriers in the uplink.

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

LTE Band 2

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

LTE Band 4

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

LTE Band 5

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

LTE Band 7

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

LTE Band 12

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

LTE Band 13

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

LTE Band 17

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

LTE Band 25

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

LTE Band 26

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

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

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

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

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

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

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

<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		

2) LTE Bands tune up:

Band	Antenna	Head DSI 1 Tune-up Limit	Body-worn DSI 4 Tune-up Limit	Hotspot DSI 5 Tune-up Limit	Extremity DSI 3 Tune-up Limit	Default Tune-up Limit
LTE Band 12	Ant 0	25.7	25.7	25.7	25.7	25.7
LTE Band 17	Ant 0	25.7	25.7	25.7	25.7	25.7

Band	Antenna	Head DSI 1 Tune-up Limit	Body-worn DSI 4 Tune-up Limit	Hotspot DSI 5 Tune-up Limit	Extremity DSI 3 Tune-up Limit	Default Tune-up Limit
LTE Band 12	Ant 1	24.7	25.7	24.7	25.7	25.7
LTE Band 17	Ant 1	24.7	25.7	24.7	25.7	25.7

4.3 General 5G NR SAR Test and Reporting Considerations

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

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

NR Band 2																
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	373500	1867.5	374000	1870
M	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500	1897.5	379000	1895	378500	1892.5	378000	1890

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

NR Band 7																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 50MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	503500	2517.5	504000	2520	505000	2525
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510500	2552.5	510000	2550	509000	2545

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

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

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

NR Band 66																		
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	344500	1722.5	345000	1725	345500	1727.5	346000	1730	346500	1732.5
M	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
H	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353500	1767.5	353000	1765	352500	1762.5	352000	1760	351500	1757.5

NR Band 71														
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	133100	665.5	133600	668	134100	670.5	134600	673	135100	675.5	135600	678		
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5
H	139100	695.5	138600	693	138100	690.5	137600	688	137100	685.5	136600	683		

NR Band 38												
	Bandwidth10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	515000	2575	515500	2577.5	516000	2580	516500	2582.5	517000	2585	518000	2590
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595
H	523000	2615	522500	2612.5	522000	2610	521500	2607.5	521000	2605	5120000	2600

NR Band 41																												
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 35MHz		Bandwidth 40MHz		Bandwidth 45MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	501702	2508.51	502200	2511	502704	2513.52	503202	2516.01	503700	2518.5	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	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	535500	2677.5	534996	2674.98	534498	2672.49	534000	2670	533498	2667.48	532998	2664.99	531996	2659.98	537000	2685	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 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664834	3972.51	664668	3970.02	664500	3967.50	664334	3965.01	664000	3960	663668	3955.02	663334	3950.01	663000	3945	662668	3940.02	662334	3935.01	662000	3930

NR Band 78																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02		
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H	653000	3795	652834	3792.51	652668	3790.02	652500	3787.5	652334	3785.01	652000	3780	651668	3775.02	651334	3770.01	651000	3765	650668	3760.02	650334	3755.01		

For <3450 MHz ~ 3550 MHz >

NR Band 77																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

NR Band 78																								
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth 100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01	633334	3500.01
H	636334	3545.01	636168	3542.52	636000	3540	635834	3537.51	635668	3535.02	635334	3530.01	635000	3525	634668	3520.02	634334	3515.01	634000	3510	633668	3505.02		

5. Smart Transmit feature for RF Exposure compliance

The Qualcomm® Smart Transmit™ 5.0 of Smart Transmit (GEN2) Feature operates based on pre-defined sub6 antenna groups (AG). This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN and WLAN/BT transmitter to ensure the product in compliance with RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) version 23 to enable the Smart Transmit GEN2 Feature.

<Terminologies in this report>

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

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at WWAN and WLAN/BT bands. It will then be used as input for Smart Transmit to control and manage RF exposure for WWAN and WLAN/BT bands.

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

$$SAR_design_target < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

Antenna Group:

Antenna Group 0 (AG0)	ANT1 & ANT4 & ANT5 & ANT7 & ANT10 & ANT15 & ANT16 & ANT17
Antenna Group 1 (AG1)	ANT0 & ANT6

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

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

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

Band	Antenna	Head DSI1	Extremity DSI3	Bodyworn DSI4	Hotspot DSI5	Pmax	Uncertainty
GSM850	Ant 0	31.5	24.0	31.3	27.3	24.0	1.00
GSM850	Ant 1	21.6	24.1	25.8	21.6	24.1	1.50
GSM1900	Ant 5	20.0	21.0	27.6	20.0	21.0	1.00
GSM1900	Ant 4	18.3	18.0	29.3	22.3	18.0	1.50
WCDMA V	Ant 0	30.8	24.0	30.5	28.0	24.0	1.00
WCDMA V	Ant 1	20.5	20.0	20.0	20.0	24.0	1.50
WCDMA IV	Ant 5	19.5	22.0	27.5	19.5	24.0	1.00
WCDMA IV	Ant 4	16.4	20.4	26.0	16.4	20.4	1.50
WCDMA IV	Ant 6	31.7	20.9	25.1	20.4	21.4	1.50
WCDMA IV	Ant 7	19.6	19.5	27.3	21.2	19.5	1.50
WCDMA II	Ant 5	19.5	22.5	27.6	19.5	24.0	1.00
WCDMA II	Ant 4	16.7	19.7	19.7	16.7	20.7	1.50
WCDMA II	Ant 6	32.6	21.3	26.0	20.8	21.8	1.50
WCDMA II	Ant 7	19.9	19.8	28.1	21.2	19.8	1.50
LTE Band 71	Ant 0	33.5	25.0	32.9	28.3	25.0	0.70
LTE Band 71	Ant 1	29.2	24.7	32.2	28.4	24.7	0.70
LTE Band 12(17)	Ant 0	32.0	25.0	31.4	27.6	25.0	0.70
LTE Band 12(17)	Ant 1	23.7	24.7	30.6	23.7	24.7	1.00
LTE Band 13	Ant 0	37.2	25.0	34.7	30.7	25.0	0.70
LTE Band 13	Ant 1	21.2	24.7	26.6	21.2	24.7	1.00
LTE Band 5	Ant 0	30.9	25.0	30.7	27.3	25.0	0.70
LTE Band 5	Ant 1	20.7	20.7	20.7	20.7	24.7	1.00
LTE Band 26	Ant 0	30.5	25.0	30.3	26.9	25.0	0.70
LTE Band 26	Ant 1	20.7	21.7	21.7	20.7	24.7	1.00
LTE Band 4 Main PA	Ant 5	19.5	22.0	27.8	19.5	25.0	0.70
LTE Band 4 Other PA	Ant 5	16.2	18.7	26.4	16.2	21.7	1.50
LTE Band 4 Other PA	Ant 4	17.1	21.1	21.1	17.1	24.1	1.50
LTE Band 4 Main PA	Ant 4	14.4	18.4	18.4	14.4	21.4	1.50
LTE Band 4 Other PA	Ant 6	33.7	20.5	26.9	20.5	25.0	0.70
LTE Band 4 Main PA	Ant 6	31.7	17.9	25.5	17.9	22.4	1.50
LTE Band 4 Other PA	Ant 7	19.4	19.9	19.9	19.4	22.4	1.50
LTE Band 4 Main PA	Ant 7	17.5	18.0	18.0	17.5	20.5	1.50
LTE Band 66 Main PA	Ant 5	20.0	22.5	27.8	20.0	25.0	0.70
LTE Band 66 Other PA	Ant 4	16.6	21.1	21.1	16.6	24.1	1.50
LTE Band 66 Main PA	Ant 4	14.0	18.5	18.5	14.0	21.5	1.50
LTE Band 66 Other PA	Ant 6	33.7	20.5	27.4	20.5	25.0	0.70
LTE Band 66 Main PA	Ant 6	31.5	18.1	25.7	18.1	22.6	1.50
LTE Band 66 Other PA	Ant 7	19.0	20.0	20.0	19.0	22.5	1.50
LTE Band 66 Main PA	Ant 7	17.1	18.1	18.1	17.1	20.6	1.50
LTE Band 2	Ant 5	19.5	22.5	27.5	19.5	24.0	1.00
LTE Band 2	Ant 4	16.7	20.2	20.2	16.7	21.2	1.50
LTE Band 2	Ant 6	33.3	20.8	26.0	20.8	22.3	1.50
LTE Band 2	Ant 7	19.6	20.1	27.5	19.6	20.1	1.50
LTE Band 25	Ant 5	20.0	23.0	27.9	20.0	24.0	1.00
LTE Band 25	Ant 4	16.8	20.3	20.3	16.8	20.8	1.50
LTE Band 25	Ant 6	32.7	20.8	26.0	20.8	21.8	1.50
LTE Band 25	Ant 7	19.8	19.7	27.6	21.7	19.7	1.50
LTE Band 7 Main PA	Ant 5	17.5	21.0	27.1	17.5	24.5	1.00
LTE Band 7 Other PA	Ant 5	13.8	17.3	27.1	13.8	20.8	1.50
LTE Band 7 Other PA	Ant 4	16.5	18.5	18.5	16.5	23.0	1.50
LTE Band 7 Main PA	Ant 4	16.4	18.4	18.4	16.4	22.9	1.50
LTE Band 7 Other PA	Ant 6	29.8	20.0	27.5	20.0	24.5	1.00
LTE Band 7 Main PA	Ant 6	30.8	19.5	28.6	19.5	24.0	1.50

LTE Band 7 Other PA	Ant 7	18.4	18.9	18.9	18.4	21.9	1.50
LTE Band 7 Main PA	Ant 7	18.2	18.7	18.7	18.2	21.7	1.50
LTE Band 38 Main PA	Ant 5	17.5	21.0	27.6	17.5	23.0	0.70
LTE Band 38 Other PA	Ant 5	13.5	17.0	26.9	13.5	19.0	1.50
LTE Band 38 Other PA	Ant 4	18.1	19.6	20.1	18.1	21.1	1.50
LTE Band 38 Main PA	Ant 4	17.7	19.7	19.7	17.7	21.2	1.50
LTE Band 38 Other PA	Ant 6	29.9	20.0	27.1	20.5	22.5	1.00
LTE Band 38 Main PA	Ant 6	29.9	19.5	26.8	19.5	22.0	1.50
LTE Band 38 Other PA	Ant 7	18.6	18.6	19.1	18.6	20.1	1.50
LTE Band 38 Main PA	Ant 7	17.8	18.3	18.3	17.8	19.8	1.50
LTE Band 41 Main PA	Ant 5	16.0	19.5	28.3	16.0	23.0	0.70
LTE Band 41 Other PA	Ant 5	12.0	15.5	27.7	12.0	19.0	1.50
LTE Band 41 Other PA	Ant 4	17.1	18.6	19.1	17.1	21.1	1.50
LTE Band 41 Main PA	Ant 4	16.7	18.7	18.7	16.7	21.2	1.50
LTE Band 41 Other PA	Ant 6	29.6	20.0	27.4	20.5	22.5	1.00
LTE Band 41 Main PA	Ant 6	30.1	19.5	27.3	19.5	22.0	1.50
LTE Band 41 Other PA	Ant 7	18.6	18.6	19.1	18.6	20.1	1.50
LTE Band 41 Main PA	Ant 7	17.8	18.3	18.3	17.8	19.8	1.50
LTE Band 42 Main PA	Ant 5	15.5	17.0	27.2	15.5	23.0	1.00
LTE Band 42 Other PA	Ant 5	13.9	15.4	26.3	13.9	21.4	1.50
LTE Band 42 Main PA	Ant 10	28.1	22.0	29.1	22.0	23.0	1.00
LTE Band 42 Other PA	Ant 10	27.9	20.2	27.4	20.2	21.2	1.50
LTE Band 42 Other PA	Ant 4	17.0	20.0	20.0	17.0	23.0	0.70
LTE Band 42 Main PA	Ant 4	15.7	18.7	18.7	15.7	21.7	1.50
LTE Band 42 Other PA	Ant 6	32.9	19.5	26.9	19.5	21.5	1.50
LTE Band 42 Main PA	Ant 6	33.1	17.8	27.9	17.8	19.8	1.50
LTE Band 48 Main PA	Ant 5	16.5	17.5	26.3	16.5	21.0	1.50
LTE Band 48 Main PA	Ant 10	29.0	21.5	28.5	28.7	21.5	1.50
LTE Band 48 Other PA	Ant 4	18.5	19.5	19.5	18.5	21.0	1.50
LTE Band 48 Other PA	Ant 6	31.5	20.0	26.5	21.1	20.0	1.50
FR1 n71	Ant 0	33.7	25.0	33.2	28.5	25.0	0.70
FR1 n71	Ant 1	23.2	24.7	28.3	23.2	24.7	1.00
FR1 n12	Ant 0	32.6	25.0	31.2	28.2	25.0	0.70
FR1 n12	Ant 1	23.7	24.7	29.5	23.7	24.7	1.00
FR1 n5	Ant 0	30.2	25.0	30.1	27.4	25.0	0.70
FR1 n5	Ant 1	20.2	20.7	20.7	20.2	24.7	1.00
FR1 n26	Ant 0	30.2	25.0	30.2	27.2	25.0	0.70
FR1 n26	Ant 1	19.7	21.7	21.7	19.7	24.7	1.00
FR1 n66 Main PA	Ant 5	18.0	21.5	27.6	18.0	25.0	0.70
FR1 n66 Other PA	Ant 5	14.3	17.8	26.9	14.3	21.3	1.50
FR1 n66 Other PA	Ant 4	15.3	20.3	20.3	15.3	23.3	1.50
FR1 n66 Main PA	Ant 4	13.4	18.4	18.4	13.4	21.4	1.50
FR1 n66 Other PA	Ant 6	32.4	20.0	27.4	20.0	24.5	1.00
FR1 n66 Main PA	Ant 6	31.2	17.7	25.6	17.7	22.2	1.50
FR1 n66 Other PA	Ant 7	18.2	19.2	26.0	18.2	21.7	1.50
FR1 n66 Main PA	Ant 7	17.1	18.1	26.4	17.1	20.6	1.50
FR1 n2	Ant 5	18.0	22.0	28.1	18.0	24.0	1.00
FR1 n2	Ant 4	16.9	19.4	19.4	16.9	20.9	1.50
FR1 n2	Ant 6	31.1	20.3	25.8	20.3	21.8	1.50
FR1 n2	Ant 7	18.8	19.8	28.0	18.8	19.8	1.50
FR1 n25	Ant 5	19.0	22.5	28.1	19.0	24.0	1.00
FR1 n25	Ant 4	15.4	19.4	19.4	15.4	20.9	1.50
FR1 n25	Ant 6	30.8	20.3	26.3	20.3	21.8	1.50
FR1 n25	Ant 7	20.0	19.8	28.0	21.2	19.8	1.50
FR1 n7 Main PA	Ant 5	17.0	19.5	27.6	17.0	24.5	1.00
FR1 n7 Other PA	Ant 5	13.5	16.0	27.3	13.5	21.0	1.50

FR1 n7 Other PA	Ant 4	16.7	18.7	18.7	16.7	23.2	1.50
FR1 n7 Main PA	Ant 4	16.3	18.3	18.3	16.3	22.8	1.50
FR1 n7 Other PA	Ant 6	31.5	20.0	28.1	20.0	24.5	1.00
FR1 n7 Main PA	Ant 6	32.6	19.1	29.3	19.1	23.6	1.50
FR1 n7 Other PA	Ant 7	18.3	19.3	19.3	18.3	22.3	1.50
FR1 n7 Main PA	Ant 7	17.5	18.5	18.5	17.5	21.5	1.50
FR1 n38 Main PA	Ant 5	17.0	20.5	28.5	17.0	25.0	0.70
FR1 n38 Other PA	Ant 5	13.0	16.5	28.7	13.0	21.0	1.50
FR1 n38 Other PA	Ant 4	17.7	19.2	19.2	17.7	23.2	1.50
FR1 n38 Main PA	Ant 4	17.6	19.1	19.1	17.6	23.1	1.50
FR1 n38 Other PA	Ant 6	31.9	20.0	27.9	20.0	24.5	1.00
FR1 n38 Main PA	Ant 6	31.4	19.4	27.4	19.4	23.9	1.50
FR1 n38 Other PA	Ant 7	17.6	19.1	19.1	17.6	22.1	1.50
FR1 n38 Main PA	Ant 7	17.2	18.7	18.7	17.2	21.7	1.50
FR1 n41 Main PA	Ant 5	16.5	20.0	24.5	16.5	25.0	1.00
FR1 n41 Other PA	Ant 5	12.6	16.1	20.6	12.6	21.1	1.50
FR1 n41 Other PA	Ant 4	16.7	18.7	18.7	16.7	23.2	1.50
FR1 n41 Main PA	Ant 4	16.8	18.8	18.8	16.8	23.3	1.50
FR1 n41 Other PA	Ant 6	31.4	19.5	28.0	19.5	24.5	1.00
FR1 n41 Main PA	Ant 6	30.8	19.1	27.6	19.1	24.1	1.50
FR1 n41 Other PA	Ant 7	18.7	18.7	18.7	18.7	22.2	1.50
FR1 n41 Main PA	Ant 7	18.5	18.5	18.5	18.5	22.0	1.50
FR1 n48 Main PA	Ant 5	16.5	17.5	27.7	16.5	23.0	1.50
FR1 n48 Main PA	Ant 10	30.7	22.5	30.5	22.5	23.5	1.50
FR1 n48 Other PA	Ant 4	19.0	21.5	21.5	19.0	23.0	1.50
FR1 n48 Other PA	Ant 6	33.9	18.6	26.1	18.6	22.1	1.50
FR1 n77 Main PA	Ant 5	15.5	17.0	24.0	15.5	25.0	1.00
FR1 n77 HPUE Main PA	Ant 5	15.5	17.0	24.0	15.5	24.0	1.50
FR1 n77 Other PA	Ant 5	14.3	15.8	22.8	14.3	23.8	1.50
FR1 n77 HPUE Other PA	Ant 5	14.3	15.8	22.8	14.3	22.7	1.50
FR1 n77 Main PA	Ant 10	29.5	21.5	29.3	21.5	25.0	1.00
FR1 n77 HPUE Main PA	Ant 10	29.5	21.5	29.3	21.5	24.5	1.50
FR1 n77 Other PA	Ant 10	28.6	20.7	27.6	20.7	24.2	1.50
FR1 n77 HPUE Other PA	Ant 10	28.6	20.7	27.6	20.7	23.0	1.50
FR1 n77 Other PA	Ant 4	18.5	19.0	19.0	18.5	25.0	1.00
FR1 n77 HPUE Other PA	Ant 4	18.5	19.0	19.0	18.5	24.0	1.50
FR1 n77 Main PA	Ant 4	17.2	17.7	17.7	17.2	23.7	1.50
FR1 n77 HPUE Main PA	Ant 4	17.2	17.7	17.7	17.2	22.9	1.50
FR1 n77 Other PA	Ant 6	31.1	18.8	25.7	18.8	23.8	1.50
FR1 n77 HPUE Other PA	Ant 6	31.1	18.8	25.7	18.8	22.8	1.50
FR1 n77 Main PA	Ant 6	32.3	17.2	25.0	17.2	22.2	1.50
FR1 n77 HPUE Main PA	Ant 6	32.3	17.2	25.0	17.2	21.2	1.50
FR1 n78 Main PA	Ant 5	15.5	17.0	23.0	15.5	25.0	1.00
FR1 n78 HPUE Main PA	Ant 5	15.5	17.0	23.0	15.5	24.0	1.50
FR1 n78 Other PA	Ant 5	14.0	15.5	21.5	14.0	23.5	1.50
FR1 n78 HPUE Other PA	Ant 5	14.0	15.5	21.5	14.0	22.2	1.50
FR1 n78 Main PA	Ant 10	28.7	22.5	29.6	22.5	25.0	1.00
FR1 n78 HPUE Main PA	Ant 10	28.7	22.5	29.6	22.5	24.5	1.50
FR1 n78 Other PA	Ant 10	27.6	20.9	28.3	20.9	23.4	1.50
FR1 n78 HPUE Other PA	Ant 10	27.6	20.9	28.3	20.9	22.3	1.50
FR1 n78 Other PA	Ant 4	18.5	18.5	18.5	18.5	25.0	1.00
FR1 n78 HPUE Other PA	Ant 4	18.5	18.5	18.5	18.5	24.0	1.50
FR1 n78 Main PA	Ant 4	17.1	17.1	17.1	17.1	23.6	1.50
FR1 n78 HPUE Main PA	Ant 4	17.1	17.1	17.1	17.1	22.7	1.50
FR1 n78 Other PA	Ant 6	31.0	18.3	25.8	18.3	23.8	1.50
FR1 n78 HPUE Other PA	Ant 6	31.0	18.3	25.8	18.3	22.7	1.50

FR1 n78 Main PA	Ant 6	31.0	16.7	26.0	16.7	22.2	1.50
FR1 n78 HPUE Main PA	Ant 6	31.0	16.7	26.0	16.7	21.0	1.50

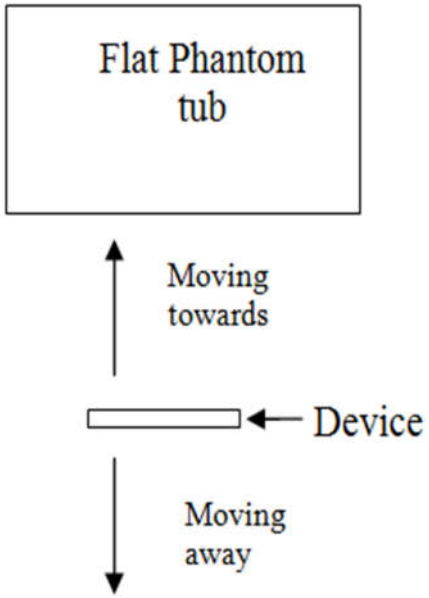
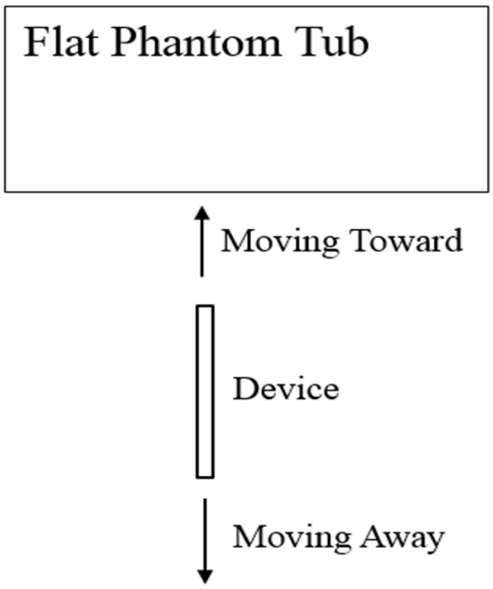
Band	Antenna	Head DSI1	Bodyworn/Extremity DSI4	Hotspot DSI5	Pmax	Uncertainty
WLAN2.4GHz	Ant 17	16.40	24.60	19.40	17.90	2.00
WLAN2.4GHz	Ant 7	16.40	24.60	19.40	17.90	2.00
WLAN2.4GHz	Ant15+7	16.40	24.60	19.40	20.90	2.00
Bluetooth	ANT 15	15.80	23.00	16.60	14.30	2.00
Bluetooth	ANT 7	21.50	25.10	22.00	13.90	2.00
WLAN5GHz(B1)	Ant 17	14.00	17.90	18.20	17.50	2.00
WLAN5GHz(B1)	Ant 16	14.00	17.90	18.20	17.50	2.00
WLAN5GHz(B1)	Ant 17+16	14.00	17.90	18.20	20.50	2.00
WLAN5GHz(B2)	Ant 17	14.00	17.90		17.50	2.00
WLAN5GHz(B2)	Ant 16	14.00	17.90		17.50	2.00
WLAN5GHz(B2)	Ant 17+16	14.00	17.90		20.50	2.00
WLAN5GHz(B3)	Ant 17	14.50	18.70		17.50	2.00
WLAN5GHz(B3)	Ant 16	14.50	18.70		17.50	2.00
WLAN5GHz(B3)	Ant 17+16	14.50	18.70		20.50	2.00
WLAN5GHz(B4)	Ant 17	15.00	20.30	17.10	18.00	2.00
WLAN5GHz(B4)	Ant 16	15.00	20.30	17.10	18.00	2.00
WLAN5GHz(B4)	Ant 17+16	15.00	20.30	17.10	21.00	2.00
WLAN6GHz(B5)	Ant 17	13.50	11.50		13.50	2.00
WLAN6GHz(B5)	Ant 16	13.50	11.50		13.50	2.00
WLAN6GHz(B5)	Ant 17+16	13.50	11.50		16.50	2.00
WLAN6GHz(B6)	Ant 17	13.00	13.00		13.00	2.00
WLAN6GHz(B6)	Ant 16	13.00	13.00		13.00	2.00
WLAN6GHz(B6)	Ant 17+16	13.00	13.00		16.00	2.00
WLAN6GHz(B7)	Ant 17	13.50	13.00		13.50	2.00
WLAN6GHz(B7)	Ant 16	13.50	13.00		13.50	2.00
WLAN6GHz(B7)	Ant 17+16	13.50	13.00		16.50	2.00
WLAN6GHz(B8)	Ant 17	13.50	13.50		13.50	2.00
WLAN6GHz(B8)	Ant 16	13.50	13.50		13.50	2.00
WLAN6GHz(B8)	Ant 17+16	13.50	13.50		16.50	2.00

Note: 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + Total uncertainty.
2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD &WLAN/BT).
3) The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.
4) GSM/WCDMA applies force peak method, and in single active Tx scenario, Smart Transmit can guarantee Tx power level of Plimit at all times.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (3980MHz) and lowest (1750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body or finger or hand at the front or back or bottom or right or top side of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or bottom or right or top side of the device use a detection threshold distance. When front/back/right/top/bottom sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
4. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:

	
Sensor detection test set-up, Front and Back Sides	Sensor detection test set-up, Right Side, Bottom Side and Top Side

< Sensor for Ant 6>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	11	11	6	6	11	11	11	11

< Sensor for Ant 5/10>

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

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

8. Specific Absorption Rate (SAR)

8.1 Introduction

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

8.2 SAR Definition

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

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

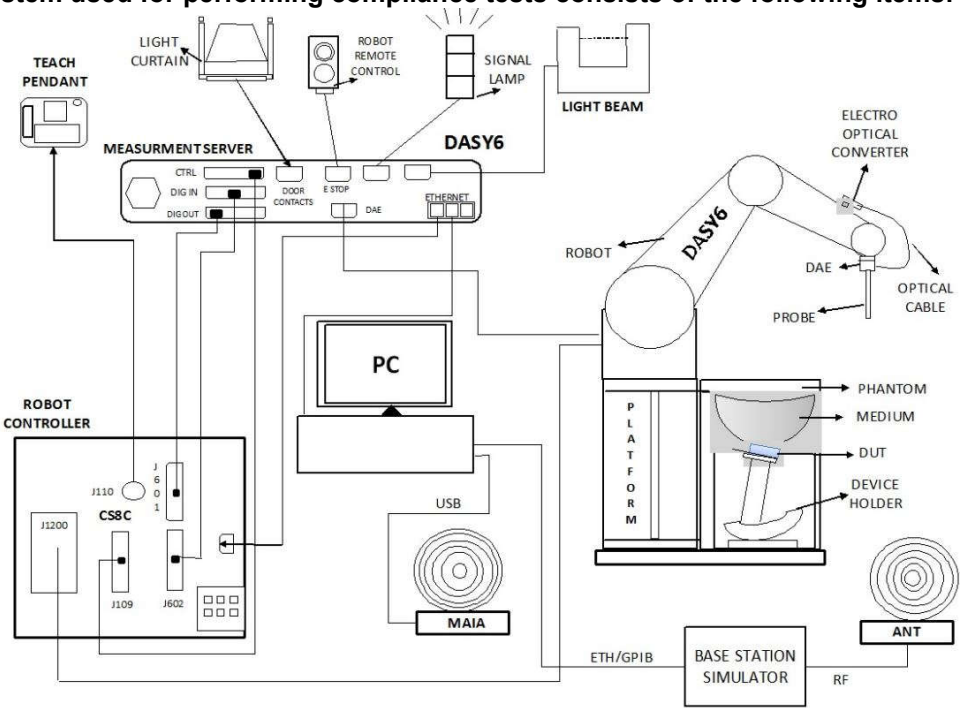
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

9. System Description and Setup

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



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

9.1 E-Field Probe

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

<EX3DV4 Probe>

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

9.2 Data Acquisition Electronics (DAE)

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

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

Photo of DAE

9.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

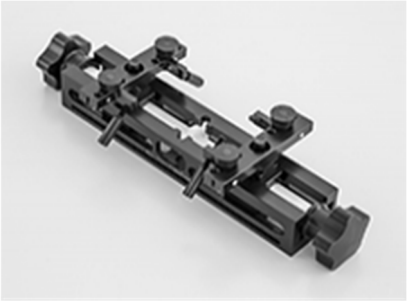
The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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

Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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

Mounting Device for Laptops

10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

10.1 Spatial Peak SAR Evaluation

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

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

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

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

10.2 Power Reference Measurement

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

10.3 Area Scan

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

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

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

10.4 Zoom Scan

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

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

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

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

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

10.5 Volume Scan Procedures

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

10.6 Power Drift Monitoring

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

11. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	2022/2/24	2025/2/22
SPEAG	835MHz System Validation Kit	D835V2	4d298	2024/1/26	2025/1/25
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2022/2/24	2025/2/22
SPEAG	1900MHz System Validation Kit	D1900V2	5d118	2022/3/30	2025/3/28
SPEAG	2450MHz System Validation Kit	D2450V2	1095	2024/2/8	2025/2/7
SPEAG	2600MHz System Validation Kit	D2600V2	1112	2023/12/18	2024/12/17
SPEAG	3500MHz System Validation Kit	D3500V2	1037	2023/11/20	2026/11/19
SPEAG	3700MHz System Validation Kit	D3700V2	1008	2023/11/20	2026/11/19
SPEAG	3900MHz System Validation Kit	D3900V2	1048	2023/3/9	2026/3/8
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	2022/9/23	2025/9/22
SPEAG	Data Acquisition Electronics	DAE4	1649	2024/7/3	2025/7/2
SPEAG	Dosimetric E-Field Probe	EX3DV4	7706	2024/1/24	2025/1/23
SPEAG	SAM Twin Phantom	SAM Twin	TP-2024	NCR	NCR
CHIGO	Thermo-Hygrometer	HTC-1	55009	2024/1/4	2025/1/3
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6262306175	2024/7/4	2025/7/3
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	2024/7/4	2025/7/3
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2024/8/20	2025/8/19
Anritsu	Vector Signal Generator	MG3710A	6201682672	2024/1/2	2025/1/1
Rohde & Schwarz	Power Meter	NRVD	102081	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2024/7/4	2025/7/3
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2024/7/4	2025/7/3
R&S	BLUETOOTH TESTER	CBT	101246	2024/7/4	2025/7/3
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	2024/10/11	2025/10/10
TES	DIGITAC THERMOMETER	TYPE-K	220305411	2024/1/4	2025/1/3
ARRA	Power Divider	A3200-2	N/A	Note 1	
MCL	Attenuation1	BW-S10W5+	N/A	Note 1	
MCL	Attenuation2	BW-S10W5+	N/A	Note 1	
MCL	Attenuation3	BW-S10W5+	N/A	Note 1	
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	Note 1	
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	Note 1	
Agilent	Dual Directional Coupler	778D	20500	Note 1	
Agilent	Dual Directional Coupler	11691D	MY48151020	Note 1	

Note:

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

12. System Verification

12.1 Tissue Simulating Liquids

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

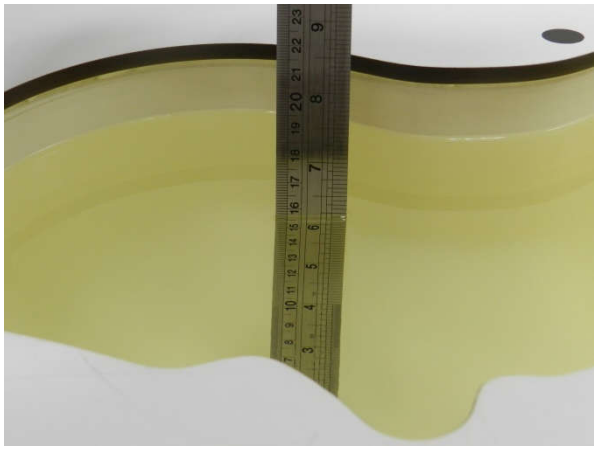


Fig 11.1 Photo of Liquid Height for Head SAR

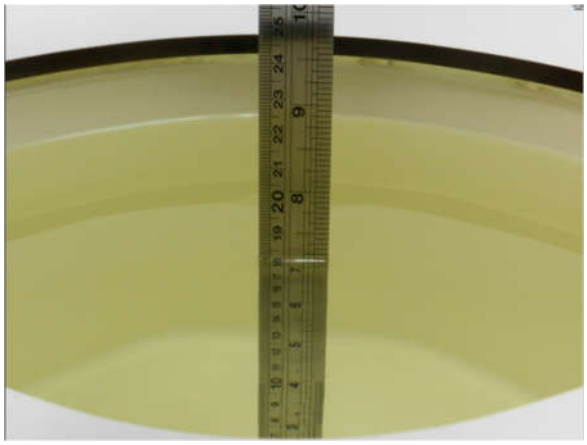


Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

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

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

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε_r)	Conductivity Target (σ)	Permittivity Target (ε_r)	Delta (σ) (%)	Delta (ε_r) (%)	Limit (%)	Date
750	Head	22.8	0.926	42.4	0.89	41.90	4.04	1.19	±5	2024/11/8
835	Head	22.8	0.935	42.1	0.90	41.50	3.89	1.45	±5	2024/11/9
1750	Head	22.8	1.38	40.3	1.37	40.10	0.73	0.50	±5	2024/11/10
1900	Head	22.8	1.45	40.0	1.40	40.00	3.57	0.00	±5	2024/11/11
2450	Head	22.8	1.86	38.5	1.80	39.20	3.33	-1.79	±5	2024/11/12
2600	Head	22.8	1.94	39.1	1.96	39.00	-1.02	0.26	±5	2024/11/13
3500	Head	22.7	2.81	39.0	2.91	37.90	-3.44	2.90	±5	2024/11/14
3700	Head	22.7	2.99	38.7	3.12	37.70	-4.17	2.65	±5	2024/11/15
3900	Head	22.7	3.25	37.8	3.32	37.50	-2.11	0.80	±5	2024/11/16
5250	Head	22.6	4.73	36.0	4.71	35.90	0.42	0.28	±5	2024/11/17
5600	Head	22.6	5.15	35.3	5.07	35.50	1.58	-0.56	±5	2024/11/18
5750	Head	22.6	5.32	35.0	5.22	35.40	1.92	-1.13	±5	2024/11/19
750	Head	22.8	0.905	42.7	0.89	41.90	1.69	1.91	±5	2024/11/19
835	Head	22.6	0.924	41.4	0.90	41.50	2.67	-0.24	±5	2024/11/20
1750	Head	22.6	1.35	40.1	1.37	40.10	-1.46	0.00	±5	2024/11/21
1900	Head	22.7	1.43	39.8	1.40	40.00	2.14	-0.50	±5	2024/11/22
2450	Head	22.7	1.85	38.4	1.80	39.20	2.78	-2.04	±5	2024/11/23
2600	Head	22.7	1.96	40.4	1.96	39.00	0.00	3.59	±5	2024/11/24
3500	Head	22.8	2.88	38.5	2.91	37.90	-1.03	1.58	±5	2024/11/25
3700	Head	22.8	3.08	38.0	3.12	37.70	-1.28	0.80	±5	2024/11/26
3900	Head	22.8	3.28	37.6	3.32	37.50	-1.20	0.27	±5	2024/11/27
5250	Head	22.8	4.57	35.5	4.71	35.90	-2.97	-1.11	±5	2024/11/28
5600	Head	22.8	4.95	34.8	5.07	35.50	-2.37	-1.97	±5	2024/11/29
5750	Head	22.8	5.13	34.6	5.22	35.40	-1.72	-2.26	±5	2024/11/30

12.3 System Performance Check Results

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

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2024/11/8	750	Head	50	1087	7706	1649	0.399	8.58	7.98	-6.99
2024/11/9	835	Head	50	4d298	7706	1649	0.457	9.89	9.14	-7.58
2024/11/10	1750	Head	50	1090	7706	1649	1.95	37.00	39	5.41
2024/11/11	1900	Head	50	5d118	7706	1649	1.83	39.30	36.6	-6.87
2024/11/12	2450	Head	50	1095	7706	1649	2.61	52.60	52.2	-0.76
2024/11/13	2600	Head	50	1112	7706	1649	2.62	55.10	52.4	-4.90
2024/11/14	3500	Head	50	1037	7706	1649	3.12	65.40	62.4	-4.59
2024/11/15	3700	Head	50	1008	7706	1649	3.11	67.20	62.2	-7.44
2024/11/16	3900	Head	50	1048	7706	1649	3.18	69.10	63.6	-7.96
2024/11/17	5250	Head	50	1113	7706	1649	3.88	81.50	77.6	-4.79
2024/11/18	5600	Head	50	1113	7706	1649	4.04	82.60	80.8	-2.18
2024/11/19	5750	Head	50	1113	7706	1649	4.10	80.80	82	1.49
2024/11/19	750	Head	50	1087	7706	1649	0.447	8.58	8.94	4.20
2024/11/20	835	Head	50	4d298	7706	1649	0.460	9.89	9.2	-6.98
2024/11/21	1750	Head	50	1090	7706	1649	1.99	37.00	39.8	7.57
2024/11/22	1900	Head	50	5d118	7706	1649	1.91	39.30	38.2	-2.80
2024/11/23	2450	Head	50	1095	7706	1649	2.63	52.60	52.6	0.00
2024/11/24	2600	Head	50	1112	7706	1649	2.67	55.10	53.4	-3.09
2024/11/25	3500	Head	50	1037	7706	1649	3.03	65.40	60.6	-7.34
2024/11/26	3700	Head	50	1008	7706	1649	3.12	67.20	62.4	-7.14
2024/11/27	3900	Head	50	1048	7706	1649	3.22	69.10	64.4	-6.80
2024/11/28	5250	Head	50	1113	7706	1649	3.89	81.50	77.8	-4.54
2024/11/29	5600	Head	50	1113	7706	1649	3.81	82.60	76.2	-7.75
2024/11/30	5750	Head	50	1113	7706	1649	3.90	80.80	78	-3.47

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2024/11/8	750	Head	50	1087	7706	1649	0.273	5.65	5.46	-3.36
2024/11/9	835	Head	50	4d298	7706	1649	0.303	6.45	6.06	-6.05
2024/11/10	1750	Head	50	1090	7706	1649	1.01	19.50	20.2	3.59
2024/11/11	1900	Head	50	5d118	7706	1649	0.96	20.40	19.2	-5.88
2024/11/12	2450	Head	50	1095	7706	1649	1.26	24.70	25.2	2.02
2024/11/13	2600	Head	50	1112	7706	1649	1.22	24.80	24.4	-1.61
2024/11/14	3500	Head	50	1037	7706	1649	1.25	24.70	25	1.21
2024/11/15	3700	Head	50	1008	7706	1649	1.21	24.40	24.2	-0.82
2024/11/16	3900	Head	50	1048	7706	1649	1.19	24.10	23.8	-1.24
2024/11/17	5250	Head	50	1113	7706	1649	1.25	23.30	25	7.30
2024/11/18	5600	Head	50	1113	7706	1649	1.15	23.70	23	-2.95
2024/11/19	5750	Head	50	1113	7706	1649	1.21	23.00	24.2	5.22
2024/11/19	750	Head	50	1087	7706	1649	0.302	5.65	6.04	6.90
2024/11/20	835	Head	50	4d298	7706	1649	0.305	6.45	6.1	-5.43
2024/11/21	1750	Head	50	1090	7706	1649	1.01	19.50	20.2	3.59
2024/11/22	1900	Head	50	5d118	7706	1649	0.947	20.40	18.94	-7.16
2024/11/23	2450	Head	50	1095	7706	1649	1.26	24.70	25.2	2.02
2024/11/24	2600	Head	50	1112	7706	1649	1.24	24.80	24.8	0.00
2024/11/25	3500	Head	50	1037	7706	1649	1.18	24.70	23.6	-4.45
2024/11/26	3700	Head	50	1008	7706	1649	1.25	24.40	25	2.46
2024/11/27	3900	Head	50	1048	7706	1649	1.22	24.10	24.4	1.24
2024/11/28	5250	Head	50	1113	7706	1649	1.23	23.30	24.6	5.58
2024/11/29	5600	Head	50	1113	7706	1649	1.19	23.70	23.8	0.42
2024/11/30	5750	Head	50	1113	7706	1649	1.08	23.00	21.6	-6.09

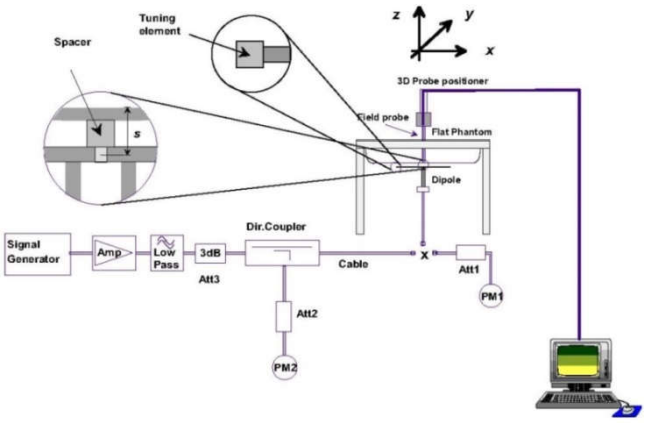


Fig 11.3.1 System Performance Check Setup

Fig 11.3.2 Setup Photo

13. RF Exposure Positions

13.1 Ear and handset reference point

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

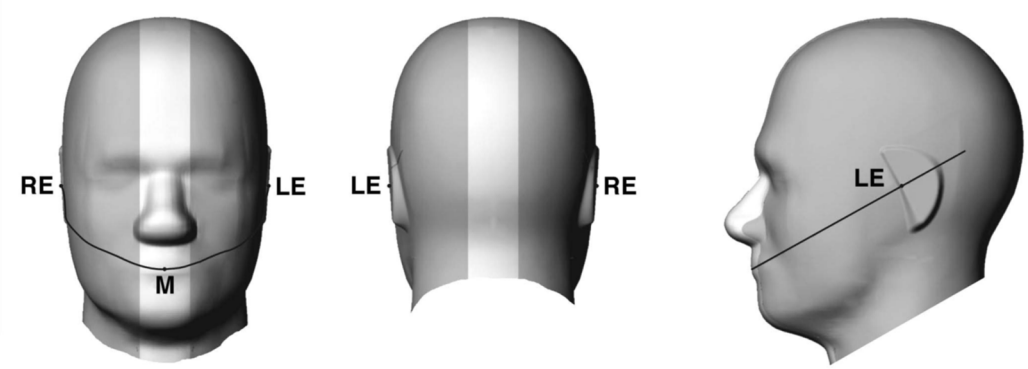


Fig 12.1.1 Front, back, and side views of SAM twin phantom

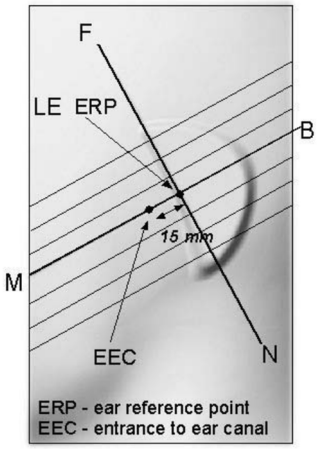


Fig 12.1.2 Close-up side view of phantom showing the ear region.

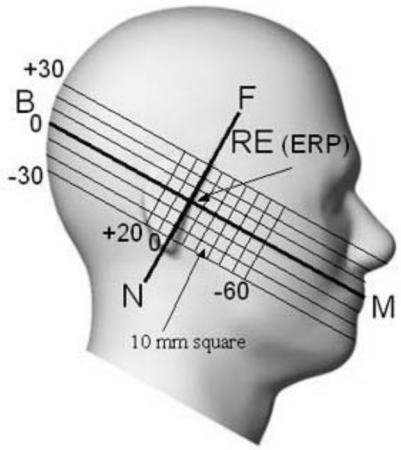


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

13.2 Definition of the cheek position

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

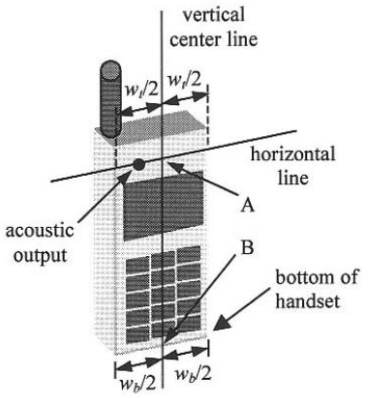


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

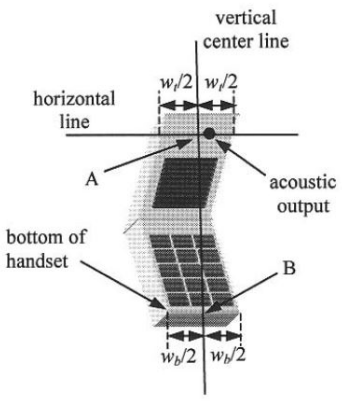


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

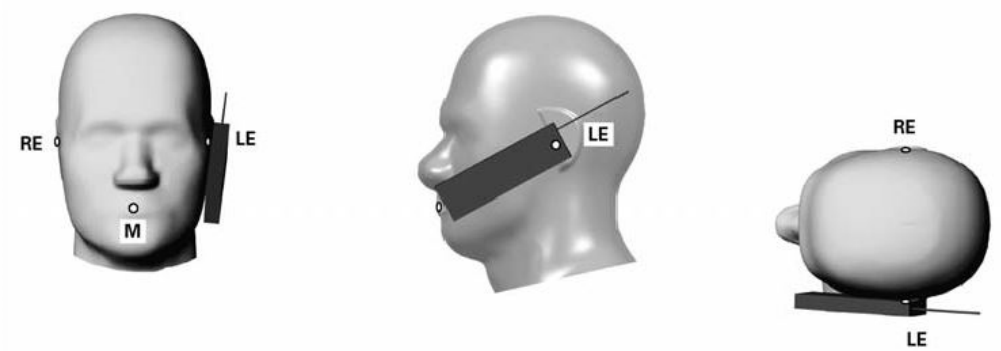


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

13.3 Definition of the tilt position

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

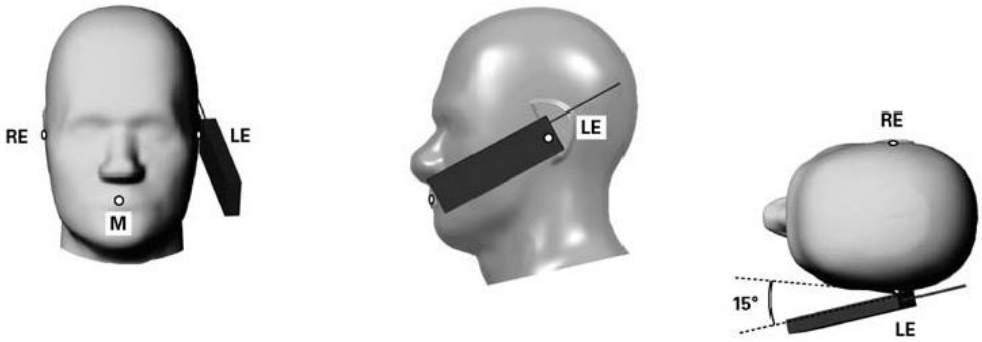


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

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

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

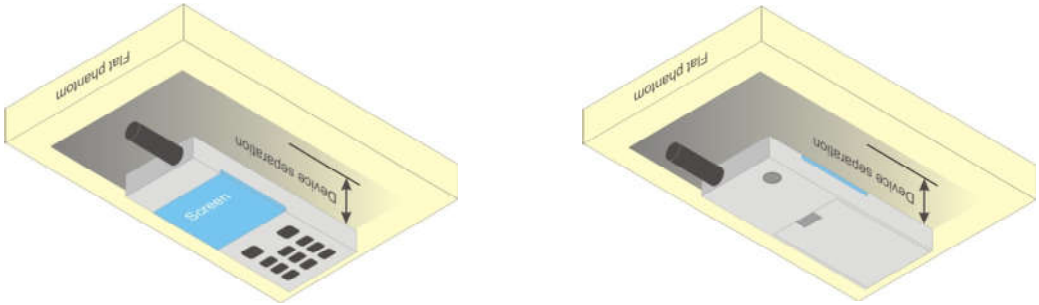


Fig 12.4 Body Worn Position

13.5 Product Specific 10g SAR Exposure

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

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

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

13.6 Wireless Router

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

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

14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

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

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

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

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

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

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

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

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

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

a. The EUT was connected to Base Station referred to the Setup Configuration below
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   1. Set RMC 12.2Kbps + HSDPA mode.
   2. Set Cell Power = -25 dBm
   3. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
   4. Select HSDPA Uplink Parameters
   5. 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
   6. Set Delta ACK, Delta NACK and Delta CQI = 8
   7. Set Ack-Nack Repetition Factor to 3
   8. Set CQI Feedback Cycle (k) to 4 ms
   9. Set CQI Repetition Factor to 2
   10. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

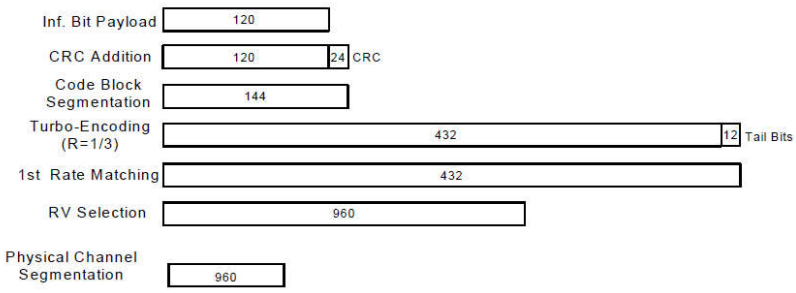


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

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

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

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

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

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

Setup Configuration

<WCDMA Conducted Power>

General Note:

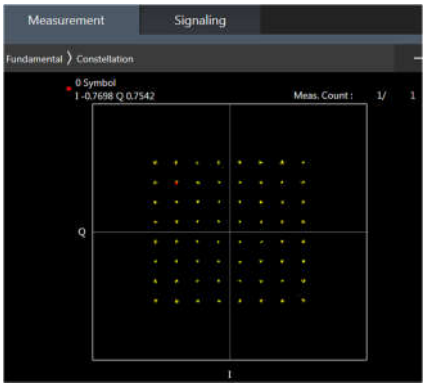
1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA /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

<LTE Conducted Power>

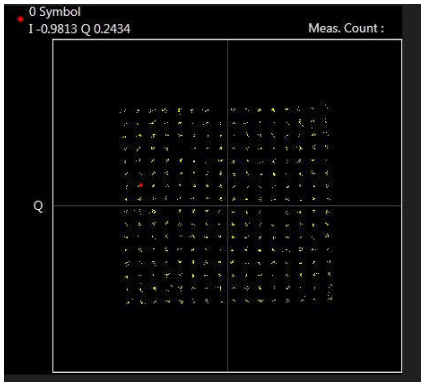
General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B17 SAR test was covered by B12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
   a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
   b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.

16QAM



64QAM



256QAM

<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

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

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

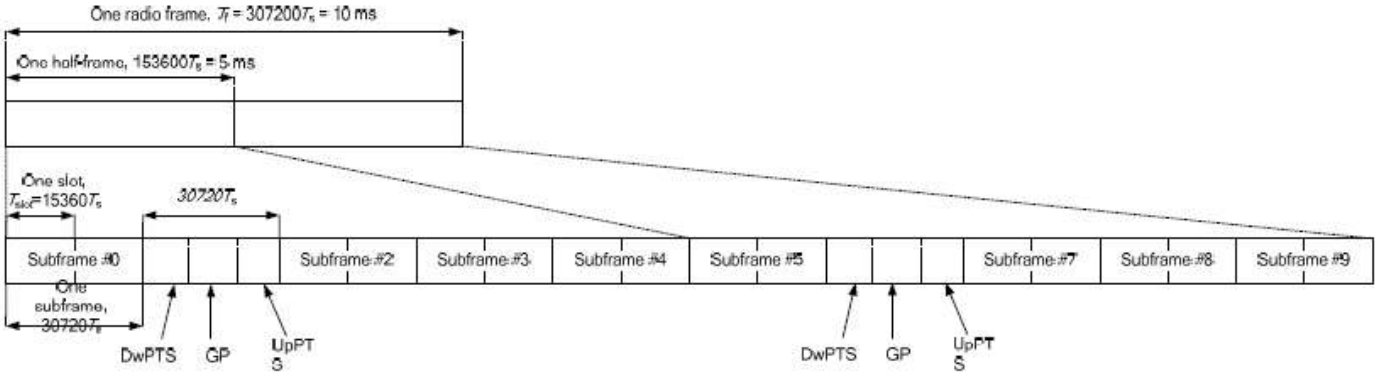


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

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

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

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

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

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

The highest duty factor is resulted from:

i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.

ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink

iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.167)/5 = 63.3%

iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.143)/5 = 62.9%

v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

<LTE Carrier Aggregation>

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

General Note:

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

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

LTE Carrier Aggregation Conducted Power (Downlink)

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

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

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

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

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

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

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

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

LTE 4x4 MIMO (Downlink)

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

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

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

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	ANT5/4/6/7
CA_38C	ANT5/4/6/7

<Intra-band>

General Note:

i. The device supports intra-band uplink carrier aggregation for LTE B7/38 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.

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

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

<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	Antenna Tx
CA_2A-4A	ANT5/4	ANT6/7
CA_4A-5A	ANT6/7/5/4	ANT0/1
CA_4A-7A	ANT5/4/6/7	ANT6/7/5/4

General Note:

1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
2. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
3. For LTE inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. Smart Transmit algorithm controls the total RF exposure base on LTE inter band ULCA bands to not exceed FCC limit.

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n5/n7/n12/n25/n26/n66/n71/n38/n41/n48/n77/n78 is SA mode.
2. 5G NR n5/n7/n66/n38/n41/n77/n78 is NSA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
   a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
   b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
   c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
   d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
   e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
   f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
   g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5GNR n77/n78 HPUE, 5GNR n77/n78 PC2 Maximum Duty Cycle is 50%, using FTM (Factory Test Mode) with 50% duty cycle is considered during SAR testing. For 5G NR other bands, using FTM to perform SAR with default 100% transmission.
5. 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.
6. 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.
7. 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.
8. 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.
9. This device supports HPUE mode for 5GNR n77/n78 with higher power. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
10. 5GNR n7/n38/n41/n77/n78 supports UL MIMO. Based on Qualcomm Smart Transmit algorithm, the MIMO antennas located in same AGs and the MIMO Plimit is not populated in the EFS file, so additional verification tests need to be added, the more detail UL MIMO analysis results please referred to appendix H.

<3GPP 38.101 MPR for EN-DC>

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

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

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

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

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

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

<EN-DC combination>

ENDC	LTE Antenna Tx	FR1 Antenna Tx
DC_26A_n78A	ANT0/1	ANT5/10/4/6
DC_2A_n66A	ANT5/4	ANT6/7/5/4
DC_2A_n77A	ANT5/4/6/7	ANT5/10/4/6
DC_2A_n78A	ANT5/4/6/7	ANT5/10/4/6
DC_38A_n78A	ANT5/4/6/7	ANT5/10/4/6
DC_41A_n78A	ANT5/4/6/7	ANT5/10/4/6
DC_4A_n38A	ANT6/7/5/4	ANT5/4/6/7
DC_4A_n41A	ANT6/7/5/4	ANT5/4/6/7
DC_4A_n78A	ANT5/4/6/7	ANT5/10/4/6
DC_4A_n7A	ANT6/7/5/4	ANT5/4/6/7
DC_5A_n66A	ANT0/1	ANT6/7/5/4
DC_5A_n78A	ANT0/1	ANT5/10/4/6
DC_5A_n7A	ANT0/1	ANT6/7/5/4
DC_66A_n38A	ANT6/7	ANT5/4/6/7
DC_66A_n41A	ANT6/7	ANT5/4/6/7
DC_66A_n78A	ANT5/4/6/7	ANT5/10/4/6
DC_66A_n7A	ANT6/7	ANT5/4/6/7
DC_7A_n5A	ANT6/7/5/4	ANT0/1
DC_7A_n78A	ANT5/4/6/7	ANT5/10/4/6
DC_13A_n66A	ANT0/1	ANT6/7/5/4
DC_7A_n66A	ANT6/7	ANT5/4/6/7
DC_41A_n77A	ANT5/4/6/7	ANT5/10/4/6

UL MIMO combination:

NR UL MIMO	Antenna Tx			
n7	Ant5+Ant4	Ant5+Ant6	Ant5+Ant7	
n38	Ant5+Ant4	Ant5+Ant6	Ant5+Ant7	
n41	Ant5+Ant4	Ant5+Ant6	Ant5+Ant7	
n77	Ant5+Ant4	Ant5+Ant6	Ant10+Ant4	Ant10+Ant6
n78	Ant5+Ant4	Ant5+Ant6	Ant10+Ant4	Ant10+Ant6

<WLAN Conducted Power>

General Note:

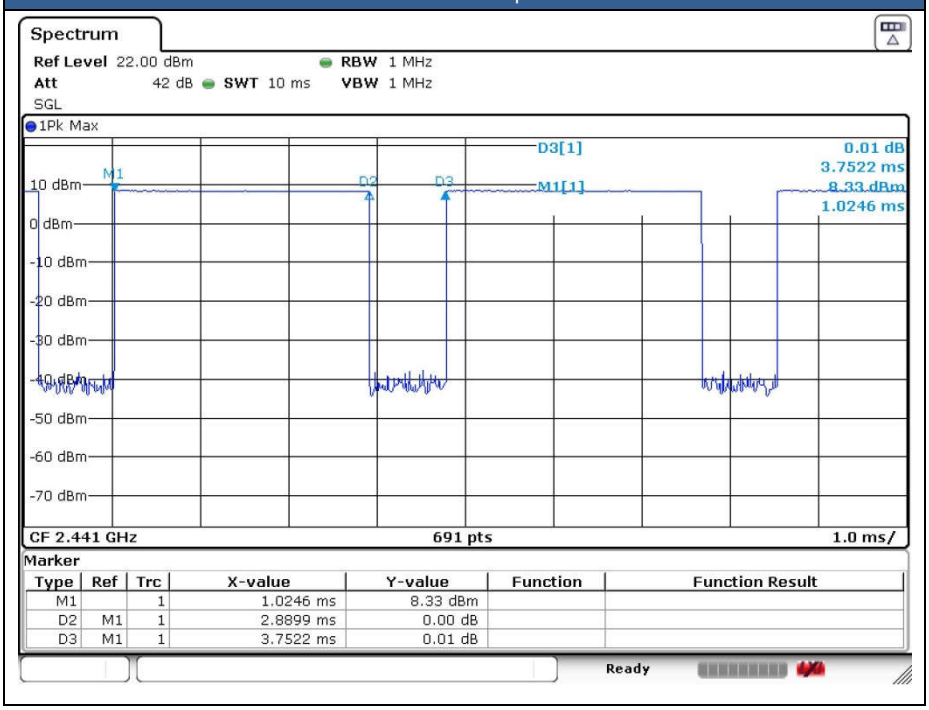
1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For “Not required”, SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
   a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
   b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
   c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. 802.11ax/be supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
8. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two antennas respectively to calculate sum of the power for MIMO mode.

<2.4GHz Bluetooth>

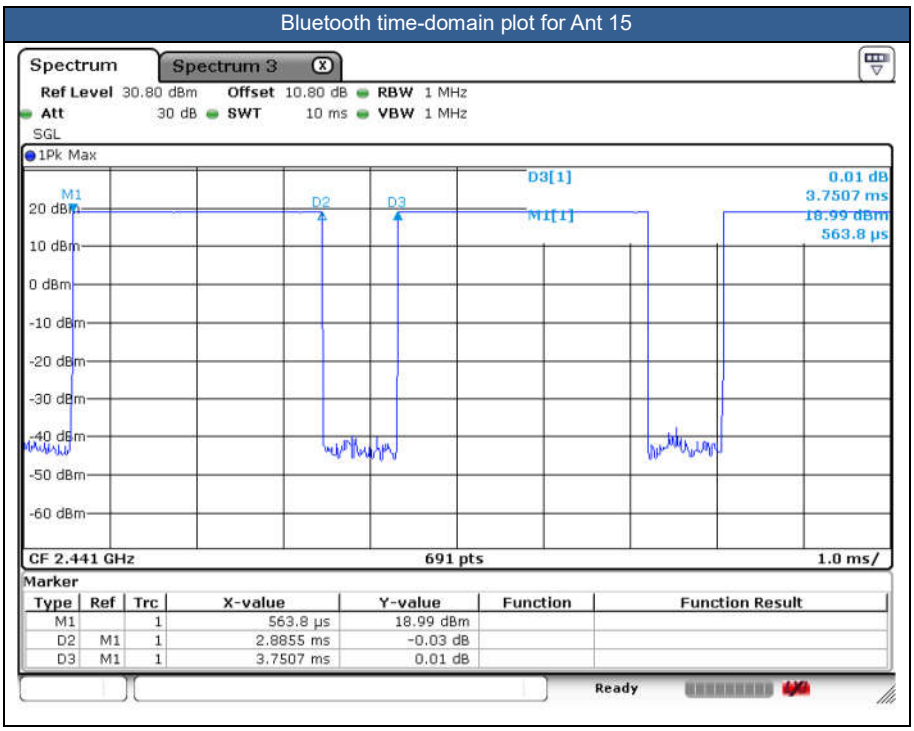
General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 77.02% for ant 7 and 76.73% for ant 15 as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.

Bluetooth time-domain plot for Ant 7



Bluetooth time-domain plot for Ant 15



15. Antenna Location

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

16. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
   c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) *83.3%".
   d. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
   e. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
   f. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
   - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
   - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
   - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements Proximity sensors/receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity), and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table.The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E. power table.
5. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
   a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850, WCDMA Band II/IV, LTE Band 13/26, 5GNR n2/n12/n26/n66/n71 and WLAN5.8GHz 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.
6. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
7. Based on Qualcomm Smart Transmit algorithm, the FR1/BT MIMO antennas located in same AGs and the MIMO Plimit is not populated in the EFS file, so additional verification tests need to be added, the more detail UL MIMO analysis results please referred to appendix H.
8. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
9. For Phablet devices, when hotspot mode is not supported, Product specific 10-g SAR is required for all surfaces and edges with an antenna located at ≤ 25mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
10. LTE B4/66/7/38/41 at ant4/5/6/7, LTE B42 at ant4/5/6/10, and 5GNR n66/7/38/41 at ant4/5/6/7, 5GNR n77/78 at ant4/5/6/10 support different PAs for same antennas. And some LTE/NR bands support Other PA only under ENDC& UL CA. Some LTE/NR bands support different PAs for some antennas, whether it is the maximum power of Main PA is higher

than and very close to the other PA, for RF exposure, after verification all PAs in a same position, so the worst-case PA was chosen to perform full SAR testing to ensure the RF exposure is compliance and another PA verified the worst case.

11. Since the EUT's rear camera is protruding and there are multiple TX ants, which are distributed in various positions of the mobile phone, different reference surfaces of each antenna are considered as the benchmark 0mm test on the extremity respectively, more details refer to the test photos.
12. The device for LTE Band 48/5GNR n48 SAR testing was configured by the 3GPP MPR implementations and in order to more conservative RF exposure assessment to determine SAR compliance, the actual maximum output power in production unit refer to Part 96 report and tune up document.

GSM Note:

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

WCDMA Note:

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

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 /B12 / B17 /B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B17 SAR test was covered by B12; 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 n2/n5/n7/n12/n25/n26/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
3. Per KDB 248227 D01v02r02, when SAR measurement is required for at least one of the two U-NII bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is < 1.2 W/kg, SAR is not required for the 160 MHz channel.
4. 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.
5. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
7. SISO and MIMO all supported by WLAN2.4GHz/WLAN5GHz, for SISO mode power is less than per chain power of MIMO mode. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power, so only chose MIMO mode to perform SAR testing.
8. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.

DSI status description:

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

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

Exposure conditions	Trigger Conditions	DSI
Head	Receiver on	DSI1
Body Worn (15mm)	Sensor Off / Receiver off	DSI4
Hotspot (10mm)	Hotspot On	DSI5
Extremity (Handheld)	Sensor On	DSI3
	Sensor Off / Receiver off	DSI4

16.1 Head SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
									750MHz											
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 1	133322	683	25.14	25.70	1.138	-	-	0.04	0.138	0.157
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 1	133322	683	24.19	24.70	1.125	-	-	-0.01	0.117	0.132
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 1	133322	683	25.14	25.70	1.138	-	-	-0.08	0.090	0.102
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 1	133322	683	24.19	24.70	1.125	-	-	0.05	0.080	0.090
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 1	133322	683	25.14	25.70	1.138	-	-	0.06	0.126	0.143
	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 1	133322	683	24.19	24.70	1.125	-	-	-0.09	0.100	0.112
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 1	133322	683	25.14	25.70	1.138	-	-	-0.08	0.010	0.011
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 1	133322	683	24.19	24.70	1.125	-	-	0.13	0.006	0.007
	LTE Band 71	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 1	133322	683	25.35	25.40	1.012	-	-	0.01	0.247	0.250
	LTE Band 71	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 1	DSI 1	133322	683	24.40	24.40	1.000	-	-	-0.15	0.250	0.250
	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 1	133322	683	25.35	25.40	1.012	-	-	0.19	0.046	0.047
	LTE Band 71	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 1	DSI 1	133322	683	24.40	24.40	1.000	-	-	0.07	0.046	0.046
	LTE Band 71	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 1	133322	683	25.35	25.40	1.012	-	-	-0.18	0.364	0.368
01	LTE Band 71	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 1	133322	683	24.40	24.40	1.000	-	-	-0.03	0.388	**0.388**
	LTE Band 71	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 1	133322	683	25.35	25.40	1.012	-	-	0.03	0.057	0.058
	LTE Band 71	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 1	133322	683	24.40	24.40	1.000	-	-	-0.15	0.054	0.054
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 1	23095	707.5	25.16	25.70	1.132	-	-	0.12	0.194	0.220
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 1	23095	707.5	24.18	24.70	1.127	-	-	0.03	0.160	0.180
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 1	23095	707.5	25.16	25.70	1.132	-	-	0.18	0.145	0.164
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 1	23095	707.5	24.18	24.70	1.127	-	-	0.16	0.120	0.135
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 1	23095	707.5	25.16	25.70	1.132	-	-	-0.1	0.184	0.208
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 1	23095	707.5	24.18	24.70	1.127	-	-	0.07	0.189	0.213
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 1	23095	707.5	25.16	25.70	1.132	-	-	0.18	0.106	0.120
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 1	23095	707.5	24.18	24.70	1.127	-	-	-0.1	0.083	0.094
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 1	23095	707.5	24.32	24.70	1.091	-	-	-0.03	0.391	0.427
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 1	23095	707.5	24.30	24.70	1.096	-	-	0.14	0.445	0.488
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 1	23095	707.5	24.32	24.70	1.091	-	-	0.11	0.077	0.084
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 1	23095	707.5	24.30	24.70	1.096	-	-	-0.05	0.087	0.095
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 1	23095	707.5	24.32	24.70	1.091	-	-	0.18	0.703	0.767
02	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 1	23095	707.5	24.30	24.70	1.096	-	-	0.01	0.756	**0.829**
	LTE Band 12	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 1	23095	707.5	24.28	24.70	1.102	-	-	0.06	0.710	0.782
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 1	23095	707.5	24.32	24.70	1.091	-	-	0.14	0.087	0.095
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 1	23095	707.5	24.30	24.70	1.096	-	-	-0.17	0.097	0.106
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 1	23230	782	25.14	25.70	1.138	-	-	0.01	0.059	0.067
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 1	23230	782	24.16	24.70	1.132	-	-	-0.15	0.043	0.049
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 1	23230	782	25.14	25.70	1.138	-	-	0.19	0.037	0.042
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 1	23230	782	24.16	24.70	1.132	-	-	0.07	0.022	0.025
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 1	23230	782	25.14	25.70	1.138	-	-	-0.18	0.055	0.063
	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 1	23230	782	24.16	24.70	1.132	-	-	0.03	0.047	0.053
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 1	23230	782	25.14	25.70	1.138	-	-	-0.15	0.006	0.007
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 1	23230	782	24.16	24.70	1.132	-	-	-0.15	0.003	0.003
	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 1	23230	782	22.01	22.20	1.045	-	-	0.16	0.410	0.428
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 1	23230	782	21.97	22.20	1.054	-	-	0.05	0.419	0.442
	LTE Band 13	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 1	23230	782	22.01	22.20	1.045	-	-	0.05	0.075	0.078
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 1	23230	782	21.97	22.20	1.054	-	-	-0.03	0.071	0.075
	LTE Band 13	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 1	23230	782	22.01	22.20	1.045	-	-	-0.15	0.687	0.718
03	LTE Band 13	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 1	23230	782	21.97	22.20	1.054	-	-	0.07	0.716	**0.755**
	LTE Band 13	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 1	23230	782	22.01	22.20	1.045	-	-	0.16	0.092	0.096
	LTE Band 13	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 1	23230	782	21.97	22.20	1.054	-	-	0.13	0.094	0.099
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	136100	680.5	25.25	25.70	1.109	-	-	0.11	0.092	0.102

	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	136100	680.5	25.21	25.70	1.119	-	-	-0.08	0.134	0.150
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	136100	680.5	25.25	25.70	1.109	-	-	-0.17	0.066	0.073
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	136100	680.5	25.21	25.70	1.119	-	-	-0.08	0.085	0.095
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	136100	680.5	25.25	25.70	1.109	-	-	-0.04	0.086	0.095
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	136100	680.5	25.21	25.70	1.119	-	-	-0.08	0.112	0.125
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	136100	680.5	25.25	25.70	1.109	-	-	0.17	0.049	0.054
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	136100	680.5	25.21	25.70	1.119	-	-	0.18	0.063	0.071
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	136100	680.5	23.83	24.20	1.089	-	-	-0.08	0.477	0.519
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	136100	680.5	23.80	24.20	1.096	-	-	-0.13	0.612	0.671
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	136100	680.5	23.83	24.20	1.089	-	-	0.06	0.069	0.075
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	136100	680.5	23.80	24.20	1.096	-	-	-0.03	0.096	0.105
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	136100	680.5	23.83	24.20	1.089	-	-	-0.03	0.742	0.808
04	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	136100	680.5	23.80	24.20	1.096	-	-	-0.04	0.765	**0.839**
	FR1 n71	35M	QPSK	180	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	136100	680.5	23.77	24.20	1.104	-	-	0.08	0.689	0.761
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	136100	680.5	23.83	24.20	1.089	-	-	-0.07	0.087	0.095
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	136100	680.5	23.80	24.20	1.096	-	-	0.05	0.115	0.126
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	141500	707.5	25.52	25.70	1.042	-	-	0.18	0.178	0.186
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	141500	707.5	25.47	25.70	1.054	-	-	0.14	0.180	0.190
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	141500	707.5	25.52	25.70	1.042	-	-	-0.17	0.123	0.128
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	141500	707.5	25.47	25.70	1.054	-	-	0.17	0.134	0.141
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	141500	707.5	25.52	25.70	1.042	-	-	-0.05	0.163	0.170
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	141500	707.5	25.47	25.70	1.054	-	-	0.01	0.167	0.176
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	141500	707.5	25.52	25.70	1.042	-	-	0.1	0.088	0.092
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	141500	707.5	25.47	25.70	1.054	-	-	-0.17	0.089	0.094
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	141500	707.5	24.68	24.70	1.005	-	-	0.12	0.405	0.407
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	141500	707.5	24.65	24.70	1.012	-	-	0.08	0.499	0.505
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	141500	707.5	24.68	24.70	1.005	-	-	-0.17	0.083	0.083
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	141500	707.5	24.65	24.70	1.012	-	-	-0.03	0.104	0.105
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	141500	707.5	24.68	24.70	1.005	-	-	0.14	0.784	0.788
05	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	141500	707.5	24.65	24.70	1.012	-	-	0.02	0.806	**0.815**
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	141500	707.5	24.63	24.70	1.016	-	-	0.06	0.788	0.801
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	141500	707.5	24.68	24.70	1.005	-	-	0.11	0.097	0.097
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	141500	707.5	24.65	24.70	1.012	-	-	-0.05	0.126	0.127
850MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 0	DSI 1	189	836.4	26.89	28.00	1.291	-	-	-0.04	0.149	0.192
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 0	DSI 1	189	836.4	26.89	28.00	1.291	-	-	-0.08	0.093	0.120
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 0	DSI 1	189	836.4	26.89	28.00	1.291	-	-	-0.13	0.097	0.125
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 0	DSI 1	189	836.4	26.89	28.00	1.291	-	-	-0.13	0.064	0.083
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 1	DSI 1	189	836.4	24.59	26.10	1.416	-	-	-0.15	0.488	0.691
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 1	DSI 1	189	836.4	24.59	26.10	1.416	-	-	0.11	0.110	0.156
06	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 1	189	836.4	24.59	26.10	1.416	-	-	-0.05	0.657	**0.930**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 1	128	824.2	24.48	26.10	1.452	-	-	0.01	0.626	0.909
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 1	DSI 1	251	848.8	24.53	26.10	1.435	-	-	0.06	0.638	0.916
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 1	DSI 1	189	836.4	24.59	26.10	1.416	-	-	-0.08	0.139	0.197
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 1	4182	836.4	24.43	25.00	1.140	-	-	0.06	0.202	0.230
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 1	4182	836.4	24.43	25.00	1.140	-	-	-0.03	0.136	0.155
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 1	4182	836.4	24.43	25.00	1.140	-	-	-0.03	0.145	0.165
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 1	4182	836.4	24.43	25.00	1.140	-	-	0.08	0.098	0.112
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 1	4182	836.4	21.15	22.00	1.216	-	-	-0.17	0.407	0.495
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 1	4182	836.4	21.15	22.00	1.216	-	-	-0.08	0.079	0.096
07	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 1	4182	836.4	21.15	22.00	1.216	-	-	-0.08	0.672	**0.817**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 1	4132	826.4	21.10	22.00	1.230	-	-	-0.04	0.663	0.816
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 1	4233	846.6	21.11	22.00	1.227	-	-	-0.08	0.629	0.772
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 1	4182	836.4	21.15	22.00	1.216	-	-	0.17	0.107	0.130
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 1	20525	836.5	25.25	25.70	1.109	-	-	-0.07	0.254	0.282
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 1	20525	836.5	24.28	24.70	1.102	-	-	0.05	0.246	0.271

	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 1	20525	836.5	25.25	25.70	1.109	-	-	-0.11	0.146	0.162
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 1	20525	836.5	24.28	24.70	1.102	-	-	-0.12	0.147	0.162
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 1	20525	836.5	25.25	25.70	1.109	-	-	0.03	0.250	0.277
	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 1	20525	836.5	24.28	24.70	1.102	-	-	-0.16	0.222	0.245
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 1	20525	836.5	25.25	25.70	1.109	-	-	-0.02	0.122	0.135
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 1	20525	836.5	24.28	24.70	1.102	-	-	0.15	0.119	0.131
	LTE Band 5	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 1	20525	836.5	21.11	21.70	1.146	-	-	0.12	0.487	0.558
	LTE Band 5	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 1	DSI 1	20525	836.5	21.08	21.70	1.153	-	-	0.08	0.510	0.588
	LTE Band 5	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 1	20525	836.5	21.11	21.70	1.146	-	-	-0.17	0.087	0.100
	LTE Band 5	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 1	DSI 1	20525	836.5	21.08	21.70	1.153	-	-	-0.03	0.086	0.099
	LTE Band 5	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 1	20525	836.5	21.11	21.70	1.146	-	-	0.14	0.839	0.961
08	LTE Band 5	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 1	DSI 1	20525	836.5	21.08	21.70	1.153	-	-	-0.07	0.862	**0.994**
	LTE Band 5	10M	QPSK	50	0	-	Left Cheek	0mm	Ant 1	DSI 1	20525	836.5	21.07	21.70	1.156	-	-	0.11	0.851	0.984
	LTE Band 5	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 1	20525	836.5	21.11	21.70	1.146	-	-	-0.05	0.120	0.137
	LTE Band 5	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 1	DSI 1	20525	836.5	21.08	21.70	1.153	-	-	0.18	0.121	0.140
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 1	26865	831.5	25.04	25.70	1.164	-	-	-0.09	0.266	0.310
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 1	26865	831.5	24.12	24.70	1.143	-	-	0.11	0.255	0.291
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 1	26865	831.5	25.04	25.70	1.164	-	-	-0.05	0.166	0.193
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 1	26865	831.5	24.12	24.70	1.143	-	-	-0.08	0.157	0.179
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 1	26865	831.5	25.04	25.70	1.164	-	-	0.16	0.193	0.225
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 0	DSI 1	26865	831.5	24.12	24.70	1.143	-	-	0.05	0.220	0.251
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 1	26865	831.5	25.04	25.70	1.164	-	-	0.05	0.124	0.144
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 0	DSI 1	26865	831.5	24.12	24.70	1.143	-	-	-0.03	0.132	0.151
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 1	26865	831.5	21.15	21.70	1.135	-	-	0.08	0.462	0.524
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 1	DSI 1	26865	831.5	21.14	21.70	1.138	-	-	0.01	0.505	0.575
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 1	26865	831.5	21.15	21.70	1.135	-	-	0.03	0.084	0.095
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 1	DSI 1	26865	831.5	21.14	21.70	1.138	-	-	-0.08	0.095	0.108
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 1	26865	831.5	21.15	21.70	1.135	-	-	-0.08	0.817	0.927
09	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 1	DSI 1	26865	831.5	21.14	21.70	1.138	-	-	0.07	0.841	**0.957**
	LTE Band 26	15M	QPSK	75	0	-	Left Cheek	0mm	Ant 1	DSI 1	26865	831.5	21.10	21.70	1.148	-	-	0.1	0.826	0.948
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 1	26865	831.5	21.15	21.70	1.135	-	-	-0.18	0.111	0.126
	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 1	DSI 1	26865	831.5	21.14	21.70	1.138	-	-	0.1	0.123	0.140
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	167300	836.5	25.33	25.70	1.089	-	-	-0.15	0.309	0.336
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	167300	836.5	25.23	25.70	1.114	-	-	0.02	0.276	0.308
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	167300	836.5	25.33	25.70	1.089	-	-	0.07	0.204	0.222
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	167300	836.5	25.23	25.70	1.114	-	-	0.16	0.177	0.197
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	167300	836.5	25.33	25.70	1.089	-	-	0.13	0.282	0.307
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	167300	836.5	25.23	25.70	1.114	-	-	-0.18	0.253	0.282
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	167300	836.5	25.33	25.70	1.089	-	-	0.02	0.146	0.159
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	167300	836.5	25.23	25.70	1.114	-	-	0.16	0.133	0.148
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	167300	836.5	21.05	21.20	1.035	-	-	0.08	0.457	0.473
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	167300	836.5	21.01	21.20	1.045	-	-	0.01	0.463	0.484
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	167300	836.5	21.05	21.20	1.035	-	-	0.03	0.090	0.093
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	167300	836.5	21.01	21.20	1.045	-	-	-0.08	0.082	0.086
10	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	167300	836.5	21.05	21.20	1.035	-	-	-0.04	0.784	**0.812**
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	167300	836.5	21.01	21.20	1.045	-	-	-0.08	0.772	0.807
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	167300	836.5	20.98	21.20	1.052	-	-	0.1	0.756	0.795
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	167300	836.5	21.05	21.20	1.035	-	-	-0.18	0.118	0.122
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	167300	836.5	21.01	21.20	1.045	-	-	0.1	0.109	0.114
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	166300	831.5	25.39	25.70	1.074	-	-	-0.03	0.311	0.334
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 0	DSI 1	166300	831.5	25.34	25.70	1.086	-	-	0.07	0.296	0.322
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	166300	831.5	25.39	25.70	1.074	-	-	0.06	0.201	0.216
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 0	DSI 1	166300	831.5	25.34	25.70	1.086	-	-	0.01	0.191	0.208
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	166300	831.5	25.39	25.70	1.074	-	-	-0.01	0.272	0.292
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 0	DSI 1	166300	831.5	25.34	25.70	1.086	-	-	-0.06	0.260	0.282
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	166300	831.5	25.39	25.70	1.074	-	-	-0.04	0.157	0.169

	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 0	DSI 1	166300	831.5	25.34	25.70	1.086	-	-	-0.09	0.153	0.166
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	166300	831.5	20.55	20.70	1.035	-	-	-0.1	0.389	0.403
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Cheek	0mm	Ant 1	DSI 1	166300	831.5	20.53	20.70	1.040	-	-	-0.01	0.395	0.411
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	166300	831.5	20.55	20.70	1.035	-	-	-0.09	0.086	0.089
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Tilted	0mm	Ant 1	DSI 1	166300	831.5	20.53	20.70	1.040	-	-	-0.06	0.089	0.093
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	166300	831.5	20.55	20.70	1.035	-	-	-0.17	0.641	0.664
11	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Cheek	0mm	Ant 1	DSI 1	166300	831.5	20.53	20.70	1.040	-	-	-0.01	0.702	**0.730**
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	166300	831.5	20.55	20.70	1.035	-	-	-0.11	0.101	0.105
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Tilted	0mm	Ant 1	DSI 1	166300	831.5	20.53	20.70	1.040	-	-	0.14	0.103	0.107
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 1	1413	1732.6	19.65	20.50	1.216	-	-	0.05	0.797	0.969
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 1	1312	1712.4	19.63	20.50	1.222	-	-	-0.11	0.814	0.995
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 1	1513	1752.6	19.58	20.50	1.236	-	-	-0.04	0.861	1.064
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 5	DSI 1	1413	1732.6	19.65	20.50	1.216	-	-	-0.12	0.606	0.737
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 5	DSI 1	1413	1732.6	19.65	20.50	1.216	-	-	-0.02	0.322	0.392
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 5	DSI 1	1413	1732.6	19.65	20.50	1.216	-	-	0.15	0.340	0.414
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 1	1413	1732.6	16.25	17.90	1.462	-	-	0.18	0.686	1.003
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 1	1312	1712.4	16.17	17.90	1.489	-	-	-0.04	0.714	1.063
12	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 1	1513	1752.6	16.20	17.90	1.479	-	-	-0.01	0.729	**1.078**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	DSI 1	1413	1732.6	16.25	17.90	1.462	-	-	-0.08	0.245	0.358
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	DSI 1	1413	1732.6	16.25	17.90	1.462	-	-	-0.13	0.210	0.307
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	DSI 1	1413	1732.6	16.25	17.90	1.462	-	-	-0.13	0.115	0.168
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 6	DSI 1	1413	1732.6	21.54	22.90	1.368	-	-	-0.17	0.076	0.104
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 6	DSI 1	1413	1732.6	21.54	22.90	1.368	-	-	-0.1	0.036	0.049
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 6	DSI 1	1413	1732.6	21.54	22.90	1.368	-	-	0.18	0.046	0.063
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 6	DSI 1	1413	1732.6	21.54	22.90	1.368	-	-	-0.17	0.011	0.015
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 7	DSI 1	1413	1732.6	19.58	21.00	1.387	-	-	0.08	0.513	0.711
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 7	DSI 1	1413	1732.6	19.58	21.00	1.387	-	-	0.01	0.084	0.116
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 7	DSI 1	1413	1732.6	19.58	21.00	1.387	-	-	0.03	0.699	0.969
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 7	DSI 1	1312	1712.4	19.48	21.00	1.419	-	-	-0.08	0.647	0.918
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 7	DSI 1	1513	1752.6	19.42	21.00	1.439	-	-	-0.03	0.743	1.069
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 7	DSI 1	1413	1732.6	19.58	21.00	1.387	-	-	-0.08	0.117	0.162
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	20175	1732.5	19.39	20.20	1.205	-	-	-0.03	0.672	0.810
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	20175	1732.5	19.38	20.20	1.208	-	-	-0.15	0.678	0.819
	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	20175	1732.5	19.37	20.20	1.211	-	-	0.02	0.707	0.856
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	20175	1732.5	19.39	20.20	1.205	-	-	0.07	0.706	0.851
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	20175	1732.5	19.38	20.20	1.208	-	-	-0.01	0.740	0.894
	LTE Band 4	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	DSI 1	20175	1732.5	19.37	20.20	1.211	-	-	0.16	0.728	0.881
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	20175	1732.5	19.39	20.20	1.205	-	-	0.13	0.308	0.371
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	20175	1732.5	19.38	20.20	1.208	-	-	-0.18	0.344	0.415
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	20175	1732.5	19.39	20.20	1.205	-	-	0.02	0.395	0.476
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	20175	1732.5	19.38	20.20	1.208	-	-	0.16	0.432	0.522
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	20175	1732.5	16.83	17.70	1.222	-	-	-0.03	0.420	0.513
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	20175	1732.5	17.15	18.60	1.396	-	-	0.14	0.762	1.064
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	20175	1732.5	17.13	18.60	1.403	-	-	-0.17	0.769	1.079
13	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	20175	1732.5	17.12	18.60	1.406	-	-	-0.02	0.772	**1.085**
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	20175	1732.5	17.15	18.60	1.396	-	-	-0.05	0.291	0.406
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	20175	1732.5	17.13	18.60	1.403	-	-	0.01	0.294	0.412
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	20175	1732.5	17.15	18.60	1.396	-	-	0.1	0.238	0.332
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	20175	1732.5	17.13	18.60	1.403	-	-	-0.17	0.218	0.306
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	20175	1732.5	17.15	18.60	1.396	-	-	0.04	0.126	0.176
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	20175	1732.5	17.13	18.60	1.403	-	-	-0.01	0.120	0.168
	LTE Band 4_Main PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	20175	1732.5	14.75	15.90	1.303	-	-	-0.08	0.467	0.609
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	20175	1732.5	25.10	25.70	1.148	-	-	0.09	0.129	0.148
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	20175	1732.5	24.13	24.70	1.140	-	-	0.04	0.114	0.130
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	20175	1732.5	25.10	25.70	1.148	-	-	0.11	0.065	0.075

	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	20175	1732.5	24.13	24.70	1.140	-	-	-0.13	0.065	0.074
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	20175	1732.5	25.10	25.70	1.148	-	-	0.12	0.081	0.093
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	20175	1732.5	24.13	24.70	1.140	-	-	-0.11	0.092	0.105
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	20175	1732.5	25.10	25.70	1.148	-	-	0.17	0.059	0.068
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	20175	1732.5	24.13	24.70	1.140	-	-	-0.16	0.061	0.070
	LTE Band 4_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	20175	1732.5	22.62	23.90	1.343	-	-	-0.17	0.097	0.130
	LTE Band 4	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	20175	1732.5	19.56	20.90	1.361	-	-	-0.17	0.602	0.820
	LTE Band 4	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	20175	1732.5	19.55	20.90	1.365	-	-	-0.03	0.600	0.819
	LTE Band 4	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 7	DSI 1	20175	1732.5	19.54	20.90	1.368	-	-	0.06	0.595	0.814
	LTE Band 4	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	20175	1732.5	19.56	20.90	1.361	-	-	0.14	0.096	0.131
	LTE Band 4	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	20175	1732.5	19.55	20.90	1.365	-	-	0.11	0.095	0.130
	LTE Band 4	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	20175	1732.5	19.56	20.90	1.361	-	-	-0.05	0.778	1.059
	LTE Band 4	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	20175	1732.5	19.55	20.90	1.365	-	-	0.09	0.787	1.074
	LTE Band 4	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	20175	1732.5	19.54	20.90	1.368	-	-	0.18	0.753	1.030
	LTE Band 4	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	20175	1732.5	19.56	20.90	1.361	-	-	0.14	0.126	0.172
	LTE Band 4	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	20175	1732.5	19.55	20.90	1.365	-	-	-0.17	0.114	0.156
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	20175	1732.5	17.53	19.00	1.403	-	-	0.17	0.452	0.634
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	132322	1745	20.24	20.70	1.112	-	-	0.07	0.856	0.952
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	132072	1720	20.20	20.70	1.122	-	-	0.02	0.778	0.873
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	132572	1770	20.18	20.70	1.127	-	-	0.01	0.832	0.938
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	132322	1745	20.21	20.70	1.119	-	-	-0.01	0.872	0.976
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	132072	1720	20.17	20.70	1.130	-	-	-0.06	0.732	0.827
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	132572	1770	20.08	20.70	1.153	-	-	-0.04	0.832	0.960
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	132322	1745	20.20	20.70	1.122	-	-	-0.09	0.872	0.978
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	132322	1745	20.24	20.70	1.112	-	-	-0.17	0.808	0.898
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	132072	1720	20.20	20.70	1.122	-	-	-0.1	0.795	0.892
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	132572	1770	20.18	20.70	1.127	-	-	0.18	0.920	1.037
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	132322	1745	20.21	20.70	1.119	-	-	-0.17	0.824	0.922
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	132072	1720	20.17	20.70	1.130	-	-	-0.04	0.848	0.958
14	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	132572	1770	20.08	20.70	1.153	-	-	0.03	0.944	**1.089**
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	DSI 1	132322	1745	20.20	20.70	1.122	-	-	-0.05	0.832	0.934
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	132322	1745	20.24	20.70	1.112	-	-	-0.13	0.359	0.399
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	132322	1745	20.21	20.70	1.119	-	-	-0.13	0.350	0.392
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	132322	1745	20.24	20.70	1.112	-	-	-0.01	0.445	0.495
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	132322	1745	20.21	20.70	1.119	-	-	-0.09	0.438	0.490
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	132322	1745	16.81	18.10	1.346	-	-	0.05	0.692	0.931
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	132072	1720	16.59	18.10	1.416	-	-	0.06	0.692	0.980
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	132572	1770	16.59	18.10	1.416	-	-	-0.09	0.645	0.913
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	132322	1745	16.79	18.10	1.352	-	-	-0.08	0.695	0.940
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	132072	1720	16.62	18.10	1.406	-	-	-0.02	0.716	1.007
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	132572	1770	16.51	18.10	1.442	-	-	0.13	0.648	0.934
	LTE Band 66	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	132322	1745	16.68	18.10	1.387	-	-	0.12	0.687	0.953
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	132322	1745	16.81	18.10	1.346	-	-	0.03	0.257	0.346
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	132322	1745	16.79	18.10	1.352	-	-	0.18	0.252	0.341
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	132322	1745	16.81	18.10	1.346	-	-	0.16	0.219	0.295
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	132322	1745	16.79	18.10	1.352	-	-	-0.1	0.199	0.269
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	132322	1745	16.81	18.10	1.346	-	-	0.07	0.104	0.140
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	132322	1745	16.79	18.10	1.352	-	-	0.18	0.104	0.141
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	132072	1720	14.40	15.50	1.288	-	-	-0.1	0.406	0.523
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	132322	1745	25.18	25.70	1.127	-	-	0.11	0.131	0.148
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	132322	1745	24.24	24.70	1.112	-	-	-0.05	0.130	0.145
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	132322	1745	25.18	25.70	1.127	-	-	-0.01	0.052	0.059
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	132322	1745	24.24	24.70	1.112	-	-	-0.14	0.052	0.058
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	132322	1745	25.18	25.70	1.127	-	-	-0.15	0.072	0.081
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	132322	1745	24.24	24.70	1.112	-	-	-0.12	0.076	0.084
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	132322	1745	25.18	25.70	1.127	-	-	-0.17	0.052	0.059

	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	132322	1745	24.24	24.70	1.112	-	-	0.08	0.053	0.059
	LTE Band 66_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	132322	1745	22.64	24.10	1.400	-	-	0.01	0.102	0.143
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	132322	1745	18.99	20.50	1.416	-	-	-0.05	0.524	0.742
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	132322	1745	18.95	20.50	1.429	-	-	0.01	0.526	0.752
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	132322	1745	18.99	20.50	1.416	-	-	0.1	0.089	0.126
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	132322	1745	18.95	20.50	1.429	-	-	-0.17	0.083	0.119
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	132322	1745	18.99	20.50	1.416	-	-	0.04	0.718	1.017
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	132072	1720	18.83	20.50	1.469	-	-	-0.01	0.666	0.978
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	132572	1770	18.94	20.50	1.432	-	-	-0.08	0.646	0.925
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	132322	1745	18.95	20.50	1.429	-	-	0.05	0.722	1.032
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	132072	1720	18.84	20.50	1.466	-	-	0.05	0.699	1.024
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	132572	1770	18.87	20.50	1.455	-	-	0.06	0.652	0.949
	LTE Band 66	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	132322	1745	18.94	20.50	1.432	-	-	-0.09	0.713	1.021
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	132322	1745	18.99	20.50	1.416	-	-	-0.08	0.098	0.139
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	132322	1745	18.95	20.50	1.429	-	-	0.13	0.101	0.144
	LTE Band 66_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	132322	1745	17.13	18.60	1.403	-	-	0.12	0.408	0.572
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	349000	1745	18.35	18.70	1.084	-	-	0.06	0.523	0.567
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	349000	1745	18.33	18.70	1.089	-	-	-0.03	0.558	0.608
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	349000	1745	18.35	18.70	1.084	-	-	0.08	0.608	0.659
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	349000	1745	18.33	18.70	1.089	-	-	0.04	0.623	0.678
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	349000	1745	18.35	18.70	1.084	-	-	0.05	0.242	0.262
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	349000	1745	18.33	18.70	1.089	-	-	-0.11	0.218	0.237
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	349000	1745	18.35	18.70	1.084	-	-	-0.12	0.374	0.405
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	349000	1745	18.33	18.70	1.089	-	-	0.03	0.342	0.372
	FR1 n66_Other PA	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	349000	1745	14.87	15.80	1.239	-	-	-0.16	0.273	0.338
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	349000	1745	16.28	16.80	1.127	-	-	0.09	0.763	0.860
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	349000	1745	16.25	16.80	1.135	-	-	-0.11	0.726	0.824
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	349000	1745	16.24	16.80	1.138	-	-	-0.12	0.732	0.833
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	349000	1745	16.28	16.80	1.127	-	-	0.03	0.321	0.362
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	349000	1745	16.25	16.80	1.135	-	-	-0.16	0.292	0.331
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	349000	1745	16.28	16.80	1.127	-	-	-0.02	0.222	0.250
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	349000	1745	16.25	16.80	1.135	-	-	0.15	0.201	0.228
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	349000	1745	16.28	16.80	1.127	-	-	-0.09	0.139	0.157
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	349000	1745	16.25	16.80	1.135	-	-	0.11	0.122	0.138
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	349000	1745	14.34	14.90	1.138	-	-	-0.05	0.450	0.512
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	349000	1745	25.01	25.50	1.119	-	-	0.03	0.159	0.178
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	349000	1745	24.97	25.50	1.130	-	-	0.1	0.129	0.146
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	349000	1745	25.01	25.50	1.119	-	-	0.16	0.054	0.060
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	349000	1745	24.97	25.50	1.130	-	-	-0.06	0.048	0.054
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	349000	1745	25.01	25.50	1.119	-	-	0.02	0.097	0.109
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	349000	1745	24.97	25.50	1.130	-	-	-0.16	0.091	0.103
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	349000	1745	25.01	25.50	1.119	-	-	0.05	0.052	0.058
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	349000	1745	24.97	25.50	1.130	-	-	-0.03	0.044	0.050
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	349000	1745	22.60	23.70	1.288	-	-	0.17	0.108	0.139
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	349000	1745	18.65	19.70	1.274	-	-	-0.08	0.578	0.736
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	349000	1745	18.63	19.70	1.279	-	-	0.16	0.497	0.636
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	349000	1745	18.65	19.70	1.274	-	-	0.05	0.081	0.103
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	349000	1745	18.63	19.70	1.279	-	-	-0.03	0.068	0.087
15	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	349000	1745	18.65	19.70	1.274	-	-	-0.18	0.765	**0.974**
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	349000	1745	18.63	19.70	1.279	-	-	-0.15	0.730	0.934
	FR1 n66	45M	QPSK	240	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	349000	1745	18.53	19.70	1.309	-	-	0.02	0.652	0.854
	FR1 n66	45M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	349000	1745	18.65	19.70	1.274	-	-	0.07	0.111	0.141
	FR1 n66	45M	QPSK	120	60	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	349000	1745	18.63	19.70	1.279	-	-	0.16	0.096	0.123
	FR1 n66_Main PA	45M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	349000	1745	17.55	18.60	1.274	-	-	0.13	0.483	0.615
1900MHz																				
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 5	DSI 1	661	1880	22.85	24.00	1.303	-	-	-0.18	0.790	1.030

16	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 5	DSI 1	512	1850.2	22.76	24.00	1.330	-	-	-0.05	0.812	**1.080**
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 5	DSI 1	810	1909.8	22.70	24.00	1.349	-	-	0.16	0.732	0.987
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 5	DSI 1	661	1880	22.85	24.00	1.303	-	-	-0.03	0.767	1.000
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 5	DSI 1	512	1850.2	22.76	24.00	1.330	-	-	0.07	0.790	1.051
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 5	DSI 1	810	1909.8	22.70	24.00	1.349	-	-	-0.09	0.686	0.925
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 5	DSI 1	661	1880	22.85	24.00	1.303	-	-	0.01	0.281	0.366
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 5	DSI 1	661	1880	22.85	24.00	1.303	-	-	-0.01	0.455	0.593
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	DSI 1	661	1880	20.74	22.50	1.500	-	-	0.05	0.691	1.036
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	DSI 1	512	1850.2	20.63	22.50	1.538	-	-	0.08	0.645	0.992
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Cheek	0mm	Ant 4	DSI 1	810	1909.8	20.58	22.50	1.556	-	-	0.01	0.638	0.993
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Right Tilted	0mm	Ant 4	DSI 1	661	1880	20.74	22.50	1.500	-	-	-0.07	0.206	0.309
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Cheek	0mm	Ant 4	DSI 1	661	1880	20.74	22.50	1.500	-	-	0.11	0.164	0.246
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Left Tilted	0mm	Ant 4	DSI 1	661	1880	20.74	22.50	1.500	-	-	-0.08	0.089	0.133
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 1	9400	1880	19.63	20.50	1.222	-	-	-0.07	0.802	0.980
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 1	9262	1852.4	19.59	20.50	1.233	-	-	-0.09	0.768	0.947
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 5	DSI 1	9538	1907.6	19.55	20.50	1.245	-	-	0.11	0.772	0.961
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 5	DSI 1	9400	1880	19.63	20.50	1.222	-	-	-0.05	0.603	0.737
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 5	DSI 1	9400	1880	19.63	20.50	1.222	-	-	0.05	0.283	0.346
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 5	DSI 1	9400	1880	19.63	20.50	1.222	-	-	0.05	0.367	0.448
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 1	9400	1880	16.78	18.20	1.387	-	-	0.06	0.692	0.960
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 1	9262	1852.4	16.69	18.20	1.416	-	-	-0.03	0.715	1.012
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 4	DSI 1	9538	1907.6	16.72	18.20	1.406	-	-	-0.12	0.747	1.050
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 4	DSI 1	9400	1880	16.78	18.20	1.387	-	-	-0.03	0.266	0.369
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 4	DSI 1	9400	1880	16.78	18.20	1.387	-	-	0.08	0.180	0.250
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 4	DSI 1	9400	1880	16.78	18.20	1.387	-	-	-0.07	0.095	0.132
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 6	DSI 1	9400	1880	22.16	23.30	1.300	-	-	-0.04	0.071	0.092
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 6	DSI 1	9400	1880	22.16	23.30	1.300	-	-	-0.05	0.051	0.066
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 6	DSI 1	9400	1880	22.16	23.30	1.300	-	-	0.02	0.046	0.060
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 6	DSI 1	9400	1880	22.16	23.30	1.300	-	-	-0.13	0.032	0.042
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Cheek	0mm	Ant 7	DSI 1	9400	1880	19.96	21.30	1.361	-	-	0.1	0.517	0.704
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Right Tilted	0mm	Ant 7	DSI 1	9400	1880	19.96	21.30	1.361	-	-	-0.18	0.080	0.109
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 7	DSI 1	9400	1880	19.96	21.30	1.361	-	-	0.1	0.706	0.961
17	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 7	DSI 1	9262	1852.4	19.94	21.30	1.368	-	-	0.06	0.788	**1.078**
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 7	DSI 1	9538	1907.6	19.85	21.30	1.396	-	-	0.12	0.757	1.057
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 7	DSI 1	9400	1880	19.96	21.30	1.361	-	-	0.08	0.103	0.140
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	18900	1880	19.76	20.50	1.186	-	-	0.17	0.689	0.817
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	18700	1860	19.72	20.50	1.197	-	-	0.06	0.664	0.795
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	19100	1900	19.73	20.50	1.194	-	-	0.01	0.739	0.882
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	18900	1880	19.74	20.50	1.191	-	-	-0.04	0.684	0.815
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	18700	1860	19.62	20.50	1.225	-	-	-0.15	0.650	0.796
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	19100	1900	19.60	20.50	1.230	-	-	0.11	0.715	0.880
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	18900	1880	19.70	20.50	1.202	-	-	-0.02	0.700	0.842
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	18900	1880	19.76	20.50	1.186	-	-	0.1	0.725	0.860
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	18700	1860	19.72	20.50	1.197	-	-	0.04	0.723	0.865
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	19100	1900	19.73	20.50	1.194	-	-	0.04	0.776	0.927
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	18900	1880	19.74	20.50	1.191	-	-	0.13	0.745	0.887
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	18700	1860	19.62	20.50	1.225	-	-	-0.18	0.708	0.867
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	19100	1900	19.60	20.50	1.230	-	-	-0.11	0.759	0.934
	LTE Band 2	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	DSI 1	18900	1880	19.70	20.50	1.202	-	-	-0.16	0.761	0.915
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	18900	1880	19.76	20.50	1.186	-	-	-0.15	0.318	0.377
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	18900	1880	19.74	20.50	1.191	-	-	-0.06	0.330	0.393
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	18900	1880	19.76	20.50	1.186	-	-	-0.14	0.442	0.524
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	18900	1880	19.74	20.50	1.191	-	-	-0.19	0.446	0.531
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	18900	1880	16.77	18.20	1.390	-	-	0.01	0.659	0.916
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	18700	1860	16.73	18.20	1.403	-	-	-0.15	0.589	0.826
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	19100	1900	16.71	18.20	1.409	-	-	0.19	0.746	1.051

	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	18900	1880	16.73	18.20	1.403	-	-	0.07	0.693	0.972
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	18700	1860	16.66	18.20	1.426	-	-	-0.18	0.613	0.874
18	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	19100	1900	16.67	18.20	1.422	-	-	-0.01	0.757	**1.077**
	LTE Band 2	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	18900	1880	16.72	18.20	1.406	-	-	0.03	0.695	0.977
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	18900	1880	16.77	18.20	1.390	-	-	-0.15	0.272	0.378
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	18900	1880	16.73	18.20	1.403	-	-	-0.15	0.286	0.401
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	18900	1880	16.77	18.20	1.390	-	-	0.11	0.191	0.265
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	18900	1880	16.73	18.20	1.403	-	-	-0.08	0.192	0.269
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	18900	1880	16.77	18.20	1.390	-	-	-0.17	0.096	0.133
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	18900	1880	16.73	18.20	1.403	-	-	-0.08	0.096	0.135
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	18900	1880	22.41	23.80	1.377	-	-	-0.01	0.064	0.088
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	18900	1880	21.38	22.80	1.387	-	-	-0.09	0.051	0.071
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	18900	1880	22.41	23.80	1.377	-	-	0.05	0.052	0.072
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	18900	1880	21.38	22.80	1.387	-	-	0.02	0.042	0.058
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	18900	1880	22.41	23.80	1.377	-	-	-0.13	0.062	0.085
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	18900	1880	21.38	22.80	1.387	-	-	0.17	0.057	0.079
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	18900	1880	22.41	23.80	1.377	-	-	0.06	0.053	0.073
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	18900	1880	21.38	22.80	1.387	-	-	0.01	0.046	0.064
	LTE Band 2	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	18900	1880	19.65	21.10	1.396	-	-	0.03	0.492	0.687
	LTE Band 2	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	18900	1880	19.20	20.60	1.380	-	-	0.18	0.471	0.650
	LTE Band 2	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	18900	1880	19.65	21.10	1.396	-	-	0.16	0.074	0.103
	LTE Band 2	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	18900	1880	19.20	20.60	1.380	-	-	-0.1	0.074	0.102
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	18900	1880	19.65	21.10	1.396	-	-	0.07	0.739	1.032
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	18700	1860	19.61	21.10	1.409	-	-	0.06	0.762	1.074
	LTE Band 2	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	19100	1900	19.63	21.10	1.403	-	-	0.18	0.698	0.979
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	18900	1880	19.20	20.60	1.380	-	-	-0.1	0.629	0.868
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	18700	1860	19.08	20.60	1.419	-	-	0.01	0.660	0.937
	LTE Band 2	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	19100	1900	19.15	20.60	1.396	-	-	-0.15	0.607	0.848
	LTE Band 2	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	18900	1880	19.18	20.60	1.387	-	-	0.19	0.612	0.849
	LTE Band 2	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	18900	1880	19.65	21.10	1.396	-	-	0.07	0.111	0.155
	LTE Band 2	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	18900	1880	19.20	20.60	1.380	-	-	-0.18	0.097	0.134
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	26340	1880	20.13	21.00	1.222	-	-	0.06	0.784	0.958
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	26140	1860	20.08	21.00	1.236	-	-	0.02	0.776	0.959
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	26590	1905	20.06	21.00	1.242	-	-	0.12	0.791	0.982
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	26340	1880	20.09	21.00	1.233	-	-	-0.16	0.808	0.996
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	26140	1860	19.98	21.00	1.265	-	-	-0.12	0.772	0.976
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	26590	1905	20.01	21.00	1.256	-	-	0.07	0.757	0.951
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	26340	1880	20.07	21.00	1.239	-	-	-0.02	0.744	0.922
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	26340	1880	20.13	21.00	1.222	-	-	-0.05	0.847	1.035
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	26140	1860	20.08	21.00	1.236	-	-	-0.13	0.801	0.990
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	26590	1905	20.06	21.00	1.242	-	-	0.08	0.827	1.027
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	26340	1880	20.09	21.00	1.233	-	-	0.02	0.867	1.069
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	26140	1860	19.98	21.00	1.265	-	-	0.16	0.830	1.050
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	26590	1905	20.01	21.00	1.256	-	-	0.01	0.827	1.039
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	DSI 1	26340	1880	20.07	21.00	1.239	-	-	-0.16	0.835	1.034
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	26340	1880	20.13	21.00	1.222	-	-	0.1	0.356	0.435
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	26340	1880	20.09	21.00	1.233	-	-	-0.04	0.387	0.477
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	26340	1880	20.13	21.00	1.222	-	-	-0.01	0.519	0.634
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	26340	1880	20.09	21.00	1.233	-	-	-0.06	0.535	0.660
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	26340	1880	16.56	18.30	1.493	-	-	-0.1	0.648	0.967
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	26140	1860	16.53	18.30	1.503	-	-	-0.04	0.568	0.854
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	26590	1905	16.50	18.30	1.514	-	-	-0.08	0.686	1.038
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	26340	1880	16.52	18.30	1.507	-	-	0.17	0.686	1.034
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	26140	1860	16.49	18.30	1.517	-	-	0.18	0.685	1.039
19	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	26590	1905	16.41	18.30	1.545	-	-	-0.06	0.701	**1.083**
	LTE Band 25	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	26340	1880	16.50	18.30	1.514	-	-	-0.04	0.695	1.052

	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	26340	1880	16.56	18.30	1.493	-	-	-0.08	0.256	0.382
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	26340	1880	16.52	18.30	1.507	-	-	-0.13	0.272	0.410
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	26340	1880	16.56	18.30	1.493	-	-	-0.13	0.184	0.275
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	26340	1880	16.52	18.30	1.507	-	-	0.06	0.187	0.282
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	26340	1880	16.56	18.30	1.493	-	-	-0.03	0.091	0.136
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	26340	1880	16.52	18.30	1.507	-	-	-0.03	0.097	0.146
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	26340	1880	21.84	23.30	1.400	-	-	-0.04	0.042	0.059
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	26340	1880	20.77	22.30	1.422	-	-	-0.15	0.064	0.091
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	26340	1880	21.84	23.30	1.400	-	-	0.11	0.050	0.070
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	26340	1880	20.77	22.30	1.422	-	-	-0.02	0.056	0.080
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	26340	1880	21.84	23.30	1.400	-	-	0.1	0.048	0.067
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	26340	1880	20.77	22.30	1.422	-	-	0.04	0.056	0.080
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	26340	1880	21.84	23.30	1.400	-	-	0.13	0.046	0.064
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	26340	1880	20.77	22.30	1.422	-	-	-0.18	0.055	0.078
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	26340	1880	19.77	21.20	1.390	-	-	0.03	0.490	0.681
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	26340	1880	18.73	20.20	1.403	-	-	-0.15	0.418	0.586
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	26340	1880	19.77	21.20	1.390	-	-	-0.15	0.077	0.107
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	26340	1880	18.73	20.20	1.403	-	-	0.11	0.065	0.091
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	26340	1880	19.77	21.20	1.390	-	-	-0.08	0.714	0.992
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	26140	1860	19.63	21.20	1.435	-	-	0.06	0.746	1.071
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	26590	1905	19.50	21.20	1.479	-	-	-0.17	0.673	0.995
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	26340	1880	18.73	20.20	1.403	-	-	-0.08	0.579	0.812
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	26140	1860	18.33	20.20	1.538	-	-	-0.04	0.577	0.888
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	26590	1905	18.49	20.20	1.483	-	-	-0.08	0.529	0.784
	LTE Band 25	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	26340	1880	18.79	20.20	1.384	-	-	0.17	0.539	0.746
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	26340	1880	19.77	21.20	1.390	-	-	0.18	0.108	0.150
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	26340	1880	18.73	20.20	1.403	-	-	-0.04	0.087	0.122
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	376000	1880	18.41	19.00	1.146	-	-	-0.01	0.527	0.604
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	376000	1880	18.38	19.00	1.153	-	-	-0.06	0.516	0.595
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	376000	1880	18.41	19.00	1.146	-	-	-0.04	0.573	0.656
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	376000	1880	18.38	19.00	1.153	-	-	0.01	0.579	0.668
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	376000	1880	18.41	19.00	1.146	-	-	-0.09	0.224	0.257
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	376000	1880	18.38	19.00	1.153	-	-	-0.17	0.220	0.254
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	376000	1880	18.41	19.00	1.146	-	-	-0.1	0.360	0.412
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	376000	1880	18.38	19.00	1.153	-	-	0.18	0.352	0.406
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	376000	1880	17.38	18.40	1.265	-	-	-0.17	0.724	0.916
20	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	376000	1880	17.35	18.40	1.274	-	-	0.04	0.771	**0.982**
	FR1 n2	40M	QPSK	216	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	376000	1880	17.31	18.40	1.285	-	-	-0.04	0.738	0.949
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	376000	1880	17.38	18.40	1.265	-	-	-0.05	0.298	0.377
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	376000	1880	17.35	18.40	1.274	-	-	0.01	0.331	0.422
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	376000	1880	17.38	18.40	1.265	-	-	-0.13	0.180	0.228
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	376000	1880	17.35	18.40	1.274	-	-	-0.01	0.198	0.252
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	376000	1880	17.38	18.40	1.265	-	-	-0.09	0.105	0.133
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	376000	1880	17.35	18.40	1.274	-	-	0.05	0.116	0.148
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	376000	1880	21.83	23.30	1.403	-	-	0.02	0.091	0.128
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	376000	1880	21.80	23.30	1.413	-	-	0.12	0.092	0.130
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	376000	1880	21.83	23.30	1.403	-	-	-0.16	0.072	0.101
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	376000	1880	21.80	23.30	1.413	-	-	-0.12	0.072	0.102
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	376000	1880	21.83	23.30	1.403	-	-	0.07	0.078	0.109
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	376000	1880	21.80	23.30	1.413	-	-	-0.02	0.070	0.099
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	376000	1880	21.83	23.30	1.403	-	-	-0.05	0.070	0.098
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	376000	1880	21.80	23.30	1.413	-	-	-0.13	0.063	0.089
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	376000	1880	19.15	20.30	1.303	-	-	0.05	0.408	0.532
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	376000	1880	19.11	20.30	1.315	-	-	-0.06	0.371	0.488
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	376000	1880	19.15	20.30	1.303	-	-	-0.13	0.060	0.078
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	376000	1880	19.11	20.30	1.315	-	-	-0.01	0.056	0.074

	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	376000	1880	19.15	20.30	1.303	-	-	0.01	0.594	0.774
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	376000	1880	19.11	20.30	1.315	-	-	-0.11	0.587	0.772
	FR1 n2	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	376000	1880	19.15	20.30	1.303	-	-	0.19	0.090	0.117
	FR1 n2	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	376000	1880	19.11	20.30	1.315	-	-	-0.14	0.087	0.114
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	376500	1882.5	19.56	20.00	1.107	-	-	0.08	0.692	0.766
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	376500	1882.5	19.53	20.00	1.114	-	-	-0.07	0.671	0.748
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	376500	1882.5	19.56	20.00	1.107	-	-	0.04	0.765	0.847
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	376500	1882.5	19.53	20.00	1.114	-	-	-0.11	0.719	0.801
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	376500	1882.5	19.49	20.00	1.125	-	-	-0.12	0.720	0.810
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	376500	1882.5	19.56	20.00	1.107	-	-	0.03	0.267	0.295
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	376500	1882.5	19.53	20.00	1.114	-	-	-0.16	0.270	0.301
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	376500	1882.5	19.56	20.00	1.107	-	-	-0.02	0.453	0.501
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	376500	1882.5	19.53	20.00	1.114	-	-	0.15	0.450	0.501
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	376500	1882.5	15.86	16.90	1.271	-	-	-0.04	0.482	0.612
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	376500	1882.5	15.83	16.90	1.279	-	-	-0.08	0.518	0.663
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	376500	1882.5	15.86	16.90	1.271	-	-	-0.08	0.191	0.243
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	376500	1882.5	15.83	16.90	1.279	-	-	-0.13	0.219	0.280
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	376500	1882.5	15.86	16.90	1.271	-	-	-0.13	0.119	0.151
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	376500	1882.5	15.83	16.90	1.279	-	-	0.06	0.139	0.178
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	376500	1882.5	15.86	16.90	1.271	-	-	-0.03	0.079	0.100
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	376500	1882.5	15.83	16.90	1.279	-	-	-0.03	0.080	0.102
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	376500	1882.5	21.82	23.30	1.406	-	-	-0.11	0.096	0.135
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	376500	1882.5	21.80	23.30	1.413	-	-	-0.16	0.098	0.138
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	376500	1882.5	21.82	23.30	1.406	-	-	-0.15	0.082	0.115
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	376500	1882.5	21.80	23.30	1.413	-	-	-0.06	0.082	0.116
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	376500	1882.5	21.82	23.30	1.406	-	-	-0.14	0.078	0.110
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	376500	1882.5	21.80	23.30	1.413	-	-	-0.19	0.082	0.116
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	376500	1882.5	21.82	23.30	1.406	-	-	0.01	0.072	0.101
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	376500	1882.5	21.80	23.30	1.413	-	-	0.06	0.075	0.106
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	376500	1882.5	19.94	21.30	1.368	-	-	0.11	0.517	0.707
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	376500	1882.5	19.91	21.30	1.377	-	-	-0.08	0.458	0.631
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	376500	1882.5	19.94	21.30	1.368	-	-	-0.17	0.073	0.100
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	376500	1882.5	19.91	21.30	1.377	-	-	-0.08	0.071	0.098
21	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	376500	1882.5	19.94	21.30	1.368	-	-	-0.11	0.768	**1.050**
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	376500	1882.5	19.91	21.30	1.377	-	-	-0.04	0.727	1.001
	FR1 n25	40M	QPSK	216	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	376500	1882.5	18.99	20.30	1.352	-	-	-0.08	0.567	0.767
	FR1 n25	40M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	376500	1882.5	19.94	21.30	1.368	-	-	0.17	0.110	0.150
	FR1 n25	40M	QPSK	108	54	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	376500	1882.5	19.91	21.30	1.377	-	-	0.18	0.106	0.146
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	21100	2535	17.79	18.50	1.178	-	-	-0.15	0.685	0.807
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	20850	2510	17.75	18.50	1.189	-	-	-0.02	0.667	0.793
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	21350	2560	17.73	18.50	1.194	-	-	-0.09	0.670	0.800
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	21100	2535	17.76	18.50	1.186	-	-	0.14	0.678	0.804
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	20850	2510	17.62	18.50	1.225	-	-	0.12	0.658	0.806
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	21350	2560	17.60	18.50	1.230	-	-	0.1	0.622	0.765
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	21100	2535	17.75	18.50	1.189	-	-	-0.09	0.671	0.797
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	21100	2535	17.79	18.50	1.178	-	-	0.07	0.576	0.678
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	21100	2535	17.76	18.50	1.186	-	-	-0.18	0.569	0.675
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	21100	2535	17.79	18.50	1.178	-	-	-0.1	0.285	0.336
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	21100	2535	17.76	18.50	1.186	-	-	-0.01	0.299	0.355
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	21100	2535	17.79	18.50	1.178	-	-	-0.09	0.323	0.380
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	21100	2535	17.76	18.50	1.186	-	-	-0.06	0.324	0.384
	LTE Band 7_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	21100	2535	14.45	15.30	1.216	-	-	-0.17	0.328	0.399
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 5	DSI 1	21100+ 21298	2535+ 2554.8	17.53	19.00	1.403	-	-	0.02	0.565	0.793
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	21100	2535	16.68	18.00	1.355	-	-	0.08	0.644	0.873
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	20850	2510	16.53	18.00	1.403	-	-	0.01	0.592	0.830

	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	21350	2560	16.66	18.00	1.361	-	-	0.03	0.643	0.875
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	21100	2535	16.67	18.00	1.358	-	-	0.07	0.663	0.901
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	20850	2510	16.59	18.00	1.384	-	-	-0.08	0.583	0.807
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	21350	2560	16.60	18.00	1.380	-	-	-0.08	0.648	0.894
	LTE Band 7	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	21100	2535	16.65	18.00	1.365	-	-	0.1	0.660	0.901
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	21100	2535	16.68	18.00	1.355	-	-	-0.18	0.276	0.374
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	21100	2535	16.67	18.00	1.358	-	-	0.1	0.284	0.386
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	21100	2535	16.68	18.00	1.355	-	-	0.12	0.145	0.197
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	21100	2535	16.67	18.00	1.358	-	-	0.08	0.151	0.205
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	21100	2535	16.68	18.00	1.355	-	-	-0.17	0.089	0.121
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	21100	2535	16.67	18.00	1.358	-	-	-0.03	0.091	0.124
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	21100	2535	16.57	17.90	1.358	-	-	0.14	0.606	0.823
	LTE Band 7C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	DSI 1	21100+ 21298	2535+ 2554.8	16.37	17.50	1.297	-	-	0.02	0.523	0.678
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	21100	2535	24.26	25.50	1.330	-	-	-0.11	0.117	0.156
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	21100	2535	23.30	24.50	1.318	-	-	0.08	0.091	0.120
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	21100	2535	24.26	25.50	1.330	-	-	0.16	0.088	0.117
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	21100	2535	23.30	24.50	1.318	-	-	0.01	0.070	0.092
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	21100	2535	24.26	25.50	1.330	-	-	-0.16	0.245	0.326
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	21100	2535	23.30	24.50	1.318	-	-	0.1	0.211	0.278
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	21100	2535	24.26	25.50	1.330	-	-	-0.04	0.066	0.088
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	21100	2535	23.30	24.50	1.318	-	-	-0.01	0.046	0.061
	LTE Band 7_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	21100	2535	24.24	25.50	1.337	-	-	0.06	0.173	0.231
	LTE Band 7C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 6	DSI 1	21100+ 21298	2535+ 2554.8	23.17	24.50	1.358	-	-	0.01	0.186	0.253
	LTE Band 7	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	21100	2535	18.65	19.90	1.334	-	-	-0.05	0.194	0.259
	LTE Band 7	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	21100	2535	18.63	19.90	1.340	-	-	0.1	0.190	0.255
	LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	21100	2535	18.65	19.90	1.334	-	-	-0.13	0.115	0.153
	LTE Band 7	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	21100	2535	18.63	19.90	1.340	-	-	-0.01	0.130	0.174
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	21100	2535	18.65	19.90	1.334	-	-	-0.09	0.700	0.933
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	20850	2510	18.46	19.90	1.393	-	-	0.05	0.613	0.854
	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	21350	2560	18.55	19.90	1.365	-	-	0.02	0.724	0.988
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	21100	2535	18.63	19.90	1.340	-	-	-0.13	0.722	0.967
	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	20850	2510	18.42	19.90	1.406	-	-	0.17	0.668	0.939
22	LTE Band 7	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	21350	2560	18.50	19.90	1.380	-	-	0.01	0.758	**1.046**
	LTE Band 7	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	21100	2535	18.53	19.90	1.371	-	-	-0.04	0.729	0.999
	LTE Band 7	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	21100	2535	18.65	19.90	1.334	-	-	-0.15	0.317	0.423
	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	21100	2535	18.63	19.90	1.340	-	-	0.11	0.316	0.423
	LTE Band 7_Main PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	21350	2560	18.24	19.70	1.400	-	-	0.01	0.742	1.038
	LTE Band 7C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	21350+ 21152	2560+ 2540.2	17.72	19.40	1.472	-	-	0.02	0.586	0.863
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	38000	2595	20.01	20.20	1.045	62.9	1.006	-0.01	0.707	0.743
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	38000	2595	19.98	20.20	1.052	62.9	1.006	0.1	0.713	0.755
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	38000	2595	20.01	20.20	1.045	62.9	1.006	0.14	0.641	0.674
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	38000	2595	19.98	20.20	1.052	62.9	1.006	0.03	0.653	0.691
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	38000	2595	20.01	20.20	1.045	62.9	1.006	0.16	0.290	0.305
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	38000	2595	19.98	20.20	1.052	62.9	1.006	-0.06	0.291	0.308
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	38000	2595	20.01	20.20	1.045	62.9	1.006	0.02	0.307	0.323
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	38000	2595	19.98	20.20	1.052	62.9	1.006	-0.16	0.314	0.332
	LTE Band 38_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	38000	2595	15.96	17.00	1.271	62.9	1.006	0.05	0.262	0.335
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 5	DSI 1	37901+ 38099	2585.1+ 2604.9	19.73	20.20	1.114	62.9	1.006	0.02	0.645	0.723
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	38000	2595	20.21	21.60	1.377	62.9	1.006	0.11	0.729	1.010
23	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	38000	2595	20.15	21.60	1.396	62.9	1.006	0.07	0.736	**1.034**
	LTE Band 38	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	38000	2595	20.08	21.60	1.419	62.9	1.006	-0.05	0.723	1.032
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	38000	2595	20.21	21.60	1.377	62.9	1.006	0.18	0.270	0.374
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	38000	2595	20.15	21.60	1.396	62.9	1.006	0.14	0.267	0.375
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	38000	2595	20.21	21.60	1.377	62.9	1.006	-0.17	0.209	0.290
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	38000	2595	20.15	21.60	1.396	62.9	1.006	0.17	0.180	0.253

	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	38000	2595	20.21	21.60	1.377	62.9	1.006	-0.05	0.095	0.132
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	38000	2595	20.15	21.60	1.396	62.9	1.006	0.01	0.097	0.136
	LTE Band 38_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	38000	2595	19.74	21.20	1.400	62.9	1.006	0.1	0.657	0.925
	LTE Band 38C	20M	QPSK	1	99	-	Right Cheek	0mm	Ant 4	DSI 1	37901+ 38099	2585.1+ 2604.9	19.99	21.60	1.449	62.9	1.006	0.02	0.685	0.998
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	38000	2595	24.48	25.50	1.265	62.9	1.006	-0.06	0.069	0.088
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	38000	2595	23.46	24.50	1.271	62.9	1.006	-0.15	0.059	0.075
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	38000	2595	24.48	25.50	1.265	62.9	1.006	0.03	0.042	0.053
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	38000	2595	23.46	24.50	1.271	62.9	1.006	-0.13	0.033	0.042
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	38000	2595	24.48	25.50	1.265	62.9	1.006	0.16	0.156	0.198
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	38000	2595	23.46	24.50	1.271	62.9	1.006	-0.15	0.124	0.158
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	38000	2595	24.48	25.50	1.265	62.9	1.006	-0.02	0.010	0.013
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	38000	2595	23.46	24.50	1.271	62.9	1.006	-0.09	0.006	0.008
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	38000	2595	24.04	25.50	1.400	62.9	1.006	0.14	0.127	0.179
	LTE Band 38C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 6	DSI 1	37901+ 38099	2585.1+ 2604.9	24.22	25.50	1.343	62.9	1.006	0.02	0.123	0.166
	LTE Band 38	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	38000	2595	21.01	22.10	1.285	62.9	1.006	0.13	0.244	0.315
	LTE Band 38	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	38000	2595	20.96	22.10	1.300	62.9	1.006	-0.18	0.214	0.280
	LTE Band 38	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	38000	2595	21.01	22.10	1.285	62.9	1.006	-0.11	0.130	0.168
	LTE Band 38	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	38000	2595	20.96	22.10	1.300	62.9	1.006	-0.16	0.118	0.154
	LTE Band 38	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	38000	2595	21.01	22.10	1.285	62.9	1.006	0.02	0.715	0.924
	LTE Band 38	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	38000	2595	20.96	22.10	1.300	62.9	1.006	-0.14	0.641	0.838
	LTE Band 38	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	38000	2595	20.89	22.10	1.321	62.9	1.006	-0.19	0.637	0.847
	LTE Band 38	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	38000	2595	21.01	22.10	1.285	62.9	1.006	0.01	0.316	0.409
	LTE Band 38	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	38000	2595	20.96	22.10	1.300	62.9	1.006	0.06	0.290	0.379
	LTE Band 38_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	38000	2595	19.65	21.30	1.462	62.9	1.006	0.01	0.700	1.030
	LTE Band 38C	20M	QPSK	1	99	-	Left Cheek	0mm	Ant 7	DSI 1	37901+ 38099	2585.1+ 2604.9	19.80	21.10	1.349	62.9	1.006	0.06	0.625	0.848
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	40620	2593	18.15	18.70	1.135	62.9	1.006	-0.03	0.529	0.604
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	39750	2506	18.10	18.70	1.148	62.9	1.006	0.17	0.493	0.569
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	40185	2549.5	18.12	18.70	1.143	62.9	1.006	-0.15	0.528	0.607
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	41055	2636.5	18.09	18.70	1.151	62.9	1.006	0.16	0.530	0.614
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	41490	2680	18.08	18.70	1.153	62.9	1.006	0.05	0.626	0.726
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	40620	2593	18.12	18.70	1.143	62.9	1.006	-0.06	0.560	0.644
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	39750	2506	18.08	18.70	1.153	62.9	1.006	-0.13	0.515	0.598
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	40185	2549.5	18.08	18.70	1.153	62.9	1.006	-0.01	0.538	0.624
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	41055	2636.5	18.01	18.70	1.172	62.9	1.006	-0.11	0.518	0.611
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	41490	2680	18.00	18.70	1.175	62.9	1.006	-0.01	0.650	0.768
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	40620	2593	18.10	18.70	1.148	62.9	1.006	0.19	0.553	0.639
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	40620	2593	18.15	18.70	1.135	62.9	1.006	-0.14	0.500	0.571
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	40620	2593	18.12	18.70	1.143	62.9	1.006	0.01	0.505	0.581
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	40620	2593	18.15	18.70	1.135	62.9	1.006	0.19	0.223	0.255
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	40620	2593	18.12	18.70	1.143	62.9	1.006	-0.06	0.213	0.245
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	40620	2593	18.15	18.70	1.135	62.9	1.006	-0.12	0.239	0.273
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	40620	2593	18.12	18.70	1.143	62.9	1.006	-0.03	0.245	0.282
	LTE Band 41_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	41490	2680	14.39	15.50	1.291	62.9	1.006	0.07	0.246	0.320
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	40620	2593	19.25	20.60	1.365	62.9	1.006	-0.17	0.687	0.943
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	39750	2506	19.07	20.60	1.422	62.9	1.006	0.04	0.575	0.823
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	40185	2549.5	19.07	20.60	1.422	62.9	1.006	-0.01	0.700	1.002
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	41055	2636.5	19.05	20.60	1.429	62.9	1.006	-0.08	0.630	0.906
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	41490	2680	19.13	20.60	1.403	62.9	1.006	0.05	0.602	0.850
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	40620	2593	19.21	20.60	1.377	62.9	1.006	0.06	0.682	0.945
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	39750	2506	19.12	20.60	1.406	62.9	1.006	-0.09	0.597	0.844
24	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	40185	2549.5	19.10	20.60	1.413	62.9	1.006	0.09	0.710	**1.009**
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	41055	2636.5	19.09	20.60	1.416	62.9	1.006	-0.08	0.616	0.877
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	41490	2680	19.16	20.60	1.393	62.9	1.006	0.13	0.607	0.851
	LTE Band 41	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	40620	2593	19.19	20.60	1.384	62.9	1.006	0.12	0.673	0.937
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	40620	2593	19.25	20.60	1.365	62.9	1.006	0.03	0.264	0.362

	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	40620	2593	19.21	20.60	1.377	62.9	1.006	0.18	0.261	0.362
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	40620	2593	19.25	20.60	1.365	62.9	1.006	0.16	0.147	0.202
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	40620	2593	19.21	20.60	1.377	62.9	1.006	-0.1	0.142	0.197
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	40620	2593	19.25	20.60	1.365	62.9	1.006	0.07	0.085	0.117
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	40620	2593	19.21	20.60	1.377	62.9	1.006	0.18	0.080	0.111
	LTE Band 41_Main PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	40185	2549.5	18.75	20.20	1.396	62.9	1.006	-0.1	0.611	0.858
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	40620	2593	24.46	25.50	1.271	62.9	1.006	0.1	0.061	0.078
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	40620	2593	23.50	24.50	1.259	62.9	1.006	-0.09	0.056	0.071
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	40620	2593	24.46	25.50	1.271	62.9	1.006	0.07	0.040	0.051
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	40620	2593	23.50	24.50	1.259	62.9	1.006	-0.09	0.036	0.046
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	40620	2593	24.46	25.50	1.271	62.9	1.006	-0.16	0.168	0.215
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	40620	2593	23.50	24.50	1.259	62.9	1.006	-0.18	0.121	0.153
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	40620	2593	24.46	25.50	1.271	62.9	1.006	-0.07	0.006	0.008
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	40620	2593	23.50	24.50	1.259	62.9	1.006	0.11	0.002	0.003
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	40620	2593	24.11	25.50	1.377	62.9	1.006	-0.08	0.123	0.170
	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 7	DSI 1	40620	2593	20.91	22.10	1.315	62.9	1.006	0.12	0.248	0.328
	LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 7	DSI 1	40620	2593	20.89	22.10	1.321	62.9	1.006	-0.16	0.226	0.300
	LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 7	DSI 1	40620	2593	20.91	22.10	1.315	62.9	1.006	-0.12	0.132	0.175
	LTE Band 41	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 7	DSI 1	40620	2593	20.89	22.10	1.321	62.9	1.006	0.07	0.121	0.161
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	40620	2593	20.91	22.10	1.315	62.9	1.006	0.09	0.742	0.982
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	39750	2506	20.81	22.10	1.346	62.9	1.006	-0.13	0.649	0.879
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	40185	2549.5	20.79	22.10	1.352	62.9	1.006	0.08	0.638	0.868
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	41055	2636.5	20.78	22.10	1.355	62.9	1.006	0.16	0.686	0.935
	LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	41490	2680	20.75	22.10	1.365	62.9	1.006	0.01	0.607	0.833
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	40620	2593	20.89	22.10	1.321	62.9	1.006	-0.16	0.680	0.904
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	39750	2506	20.80	22.10	1.349	62.9	1.006	0.1	0.619	0.840
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	40185	2549.5	20.84	22.10	1.337	62.9	1.006	-0.04	0.588	0.791
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	41055	2636.5	20.76	22.10	1.361	62.9	1.006	-0.01	0.617	0.845
	LTE Band 41	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 7	DSI 1	41490	2680	20.70	22.10	1.380	62.9	1.006	0.14	0.528	0.733
	LTE Band 41	20M	QPSK	100	0	-	Left Cheek	0mm	Ant 7	DSI 1	40620	2593	20.86	22.10	1.330	62.9	1.006	-0.11	0.669	0.895
	LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 7	DSI 1	40620	2593	20.91	22.10	1.315	62.9	1.006	-0.06	0.329	0.435
	LTE Band 41	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 7	DSI 1	40620	2593	20.89	22.10	1.321	62.9	1.006	-0.15	0.299	0.397
	LTE Band 41_Main PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 7	DSI 1	40620	2593	19.74	21.30	1.432	62.9	1.006	0.01	0.615	0.886
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	507000	2535	17.83	18.00	1.040	-	-	0.02	0.567	0.590
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 5	DSI 1	507000	2535	17.80	18.00	1.047	-	-	0.07	0.528	0.553
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	507000	2535	17.83	18.00	1.040	-	-	-0.01	0.584	0.607
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	507000	2535	17.80	18.00	1.047	-	-	0.13	0.555	0.581
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	507000	2535	17.83	18.00	1.040	-	-	0.02	0.255	0.265
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 5	DSI 1	507000	2535	17.80	18.00	1.047	-	-	0.16	0.238	0.249
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	507000	2535	17.83	18.00	1.040	-	-	-0.03	0.297	0.309
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 5	DSI 1	507000	2535	17.80	18.00	1.047	-	-	0.07	0.279	0.292
	FR1 n7_Other PA	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 5	DSI 1	507000	2535	14.41	15.00	1.146	-	-	0.01	0.269	0.308
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	507000	2535	17.15	18.20	1.274	-	-	-0.09	0.666	0.848
25	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	507000	2535	17.10	18.20	1.288	-	-	0.13	0.773	**0.996**
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	507000	2535	17.09	18.20	1.291	-	-	0.11	0.706	0.912
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	507000	2535	17.15	18.20	1.274	-	-	-0.05	0.275	0.350
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 4	DSI 1	507000	2535	17.10	18.20	1.288	-	-	-0.08	0.322	0.415
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	507000	2535	17.15	18.20	1.274	-	-	0.16	0.161	0.205
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 4	DSI 1	507000	2535	17.10	18.20	1.288	-	-	0.05	0.178	0.229
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	507000	2535	17.15	18.20	1.274	-	-	0.05	0.103	0.131
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 4	DSI 1	507000	2535	17.10	18.20	1.288	-	-	-0.03	0.120	0.155
	FR1 n7_Main PA	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 4	DSI 1	507000	2535	16.96	17.80	1.213	-	-	-0.15	0.578	0.701
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	507000	2535	25.25	25.50	1.059	-	-	-0.15	0.148	0.157
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 6	DSI 1	507000	2535	25.20	25.50	1.072	-	-	0.16	0.155	0.166
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	507000	2535	25.25	25.50	1.059	-	-	0.05	0.074	0.078
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 6	DSI 1	507000	2535	25.20	25.50	1.072	-	-	-0.06	0.074	0.079

	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	507000	2535	25.25	25.50	1.059	-	-	-0.13	0.208	0.220
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	507000	2535	25.20	25.50	1.072	-	-	-0.01	0.202	0.216
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	507000	2535	25.25	25.50	1.059	-	-	-0.11	0.089	0.094
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 6	DSI 1	507000	2535	25.20	25.50	1.072	-	-	0.19	0.080	0.086
	FR1 n7_Main PA	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 6	DSI 1	507000	2535	24.19	25.10	1.233	-	-	-0.14	0.112	0.138
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	507000	2535	18.83	19.80	1.250	-	-	0.01	0.352	0.440
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Cheek	0mm	Ant 7	DSI 1	507000	2535	18.78	19.80	1.265	-	-	-0.01	0.239	0.302
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	507000	2535	18.83	19.80	1.250	-	-	-0.06	0.121	0.151
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Right Tilted	0mm	Ant 7	DSI 1	507000	2535	18.78	19.80	1.265	-	-	-0.04	0.137	0.173
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	507000	2535	18.83	19.80	1.250	-	-	-0.09	0.657	0.821
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	507000	2535	18.78	19.80	1.265	-	-	0.01	0.732	0.926
	FR1 n7	50M	QPSK	270	0	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	507000	2535	18.75	19.80	1.274	-	-	-0.1	0.663	0.844
	FR1 n7	50M	QPSK	1	1	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	507000	2535	18.83	19.80	1.250	-	-	0.18	0.344	0.430
	FR1 n7	50M	QPSK	135	68	DFT-SCS-15KHz	Left Tilted	0mm	Ant 7	DSI 1	507000	2535	18.78	19.80	1.265	-	-	-0.17	0.316	0.400
	FR1 n7_Main PA	50M	QPSK	135	68	DFT-SCS-15KHz	Left Cheek	0mm	Ant 7	DSI 1	507000	2535	17.75	19.00	1.334	-	-	-0.04	0.601	0.801
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	519000	2595	17.42	17.70	1.067	-	-	-0.05	0.431	0.460
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	519000	2595	17.39	17.70	1.074	-	-	-0.08	0.457	0.491
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	519000	2595	17.42	17.70	1.067	-	-	-0.13	0.501	0.534
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	519000	2595	17.39	17.70	1.074	-	-	0.03	0.507	0.545
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	519000	2595	17.42	17.70	1.067	-	-	-0.01	0.204	0.218
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	519000	2595	17.39	17.70	1.074	-	-	-0.09	0.199	0.214
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	519000	2595	17.42	17.70	1.067	-	-	0.05	0.247	0.263
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	519000	2595	17.39	17.70	1.074	-	-	0.02	0.251	0.270
	FR1 n38_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	519000	2595	13.82	14.50	1.169	-	-	-0.13	0.187	0.219
26	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	519000	2595	17.95	19.20	1.334	-	-	0.05	0.755	**1.007**
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	519000	2595	17.93	19.20	1.340	-	-	0.06	0.710	0.951
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	519000	2595	17.87	19.20	1.358	-	-	0.01	0.733	0.996
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	519000	2595	17.95	19.20	1.334	-	-	-0.04	0.270	0.360
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	519000	2595	17.93	19.20	1.340	-	-	-0.15	0.240	0.322
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	519000	2595	17.95	19.20	1.334	-	-	0.11	0.234	0.312
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	519000	2595	17.93	19.20	1.340	-	-	-0.02	0.211	0.283
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	519000	2595	17.95	19.20	1.334	-	-	0.1	0.112	0.149
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	519000	2595	17.93	19.20	1.340	-	-	0.04	0.100	0.134
	FR1 n38_Main PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	519000	2595	18.05	19.10	1.274	-	-	0.13	0.673	0.857
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	519000	2595	25.10	25.50	1.096	-	-	-0.18	0.145	0.159
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	519000	2595	25.07	25.50	1.104	-	-	-0.06	0.147	0.162
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	519000	2595	25.10	25.50	1.096	-	-	0.02	0.064	0.070
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	519000	2595	25.07	25.50	1.104	-	-	0.16	0.064	0.071
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	519000	2595	25.10	25.50	1.096	-	-	0.01	0.181	0.198
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	519000	2595	25.07	25.50	1.104	-	-	-0.04	0.182	0.201
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	519000	2595	25.10	25.50	1.096	-	-	0.13	0.071	0.078
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	519000	2595	25.07	25.50	1.104	-	-	0.12	0.075	0.083
	FR1 n38_Main PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	519000	2595	24.53	25.40	1.222	-	-	0.07	0.159	0.194
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 1	519000	2595	18.35	19.10	1.189	-	-	0.08	0.217	0.258
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 1	519000	2595	18.33	19.10	1.194	-	-	0.01	0.282	0.337
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 1	519000	2595	18.35	19.10	1.189	-	-	0.03	0.150	0.178
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 1	519000	2595	18.33	19.10	1.194	-	-	-0.08	0.151	0.180
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	519000	2595	18.35	19.10	1.189	-	-	-0.08	0.646	0.768
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	519000	2595	18.33	19.10	1.194	-	-	-0.01	0.704	0.841
	FR1 n38	40M	QPSK	100	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	519000	2595	18.32	19.10	1.197	-	-	0.06	0.665	0.796
	FR1 n38	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 1	519000	2595	18.35	19.10	1.189	-	-	0.1	0.344	0.409
	FR1 n38	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 1	519000	2595	18.33	19.10	1.194	-	-	-0.18	0.320	0.382
	FR1 n38_Main PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	519000	2595	17.42	18.70	1.343	-	-	0.1	0.639	0.858
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	518598	2592.99	17.11	17.50	1.094	-	-	0.12	0.536	0.586
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	518598	2592.99	17.06	17.50	1.107	-	-	0.08	0.556	0.615
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	518598	2592.99	17.11	17.50	1.094	-	-	0.07	0.612	0.670

	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	518598	2592.99	17.06	17.50	1.107	-	-	-0.17	0.588	0.651
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	518598	2592.99	17.11	17.50	1.094	-	-	0.14	0.256	0.280
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	518598	2592.99	17.06	17.50	1.107	-	-	0.11	0.235	0.260
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	518598	2592.99	17.11	17.50	1.094	-	-	-0.05	0.299	0.327
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	518598	2592.99	17.06	17.50	1.107	-	-	0.18	0.293	0.324
	FR1 n41_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	518598	2592.99	13.19	14.10	1.233	-	-	0.14	0.225	0.277
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	518598	2592.99	16.85	18.20	1.365	-	-	-0.17	0.731	0.998
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	518598	2592.99	16.81	18.20	1.377	-	-	0.17	0.754	1.038
27	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	518598	2592.99	16.78	18.20	1.387	-	-	-0.05	0.787	**1.091**
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	518598	2592.99	16.85	18.20	1.365	-	-	0.01	0.312	0.426
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	518598	2592.99	16.81	18.20	1.377	-	-	0.1	0.283	0.390
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	518598	2592.99	16.85	18.20	1.365	-	-	-0.17	0.214	0.292
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	518598	2592.99	16.81	18.20	1.377	-	-	0.04	0.200	0.275
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	518598	2592.99	16.85	18.20	1.365	-	-	-0.01	0.132	0.180
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	518598	2592.99	16.81	18.20	1.377	-	-	-0.08	0.115	0.158
	FR1 n41_Main PA	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	518598	2592.99	17.19	18.30	1.291	-	-	0.02	0.689	0.890
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	518598	2592.99	25.13	25.50	1.089	-	-	0.08	0.128	0.139
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	518598	2592.99	25.09	25.50	1.099	-	-	0.19	0.153	0.168
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	518598	2592.99	25.13	25.50	1.089	-	-	-0.06	0.081	0.088
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	518598	2592.99	25.09	25.50	1.099	-	-	0.12	0.075	0.082
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	518598	2592.99	25.13	25.50	1.089	-	-	-0.03	0.206	0.224
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	518598	2592.99	25.09	25.50	1.099	-	-	0.07	0.201	0.221
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	518598	2592.99	25.13	25.50	1.089	-	-	-0.12	0.081	0.088
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	518598	2592.99	25.09	25.50	1.099	-	-	-0.03	0.084	0.092
	FR1 n41_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	518598	2592.99	24.47	25.60	1.297	-	-	0.02	0.183	0.237
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 1	518598	2592.99	19.36	20.20	1.213	-	-	0.05	0.211	0.256
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 7	DSI 1	518598	2592.99	19.33	20.20	1.222	-	-	0.06	0.174	0.213
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 1	518598	2592.99	19.36	20.20	1.213	-	-	-0.09	0.110	0.133
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 7	DSI 1	518598	2592.99	19.33	20.20	1.222	-	-	-0.08	0.121	0.148
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	518598	2592.99	19.36	20.20	1.213	-	-	-0.01	0.756	0.917
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	518598	2592.99	19.33	20.20	1.222	-	-	0.13	0.612	0.748
	FR1 n41	100M	QPSK	270	0	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	518598	2592.99	19.28	20.20	1.236	-	-	0.12	0.584	0.722
	FR1 n41	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 1	518598	2592.99	19.36	20.20	1.213	-	-	0.03	0.301	0.365
	FR1 n41	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 7	DSI 1	518598	2592.99	19.33	20.20	1.222	-	-	0.18	0.292	0.357
	FR1 n41_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 7	DSI 1	518598	2592.99	18.68	20.00	1.355	-	-	0.16	0.502	0.680
3500MHz ~ 3900MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	42590	3500	17.75	18.50	1.189	62.9	1.006	-0.03	0.519	0.621
28	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	42590	3500	17.73	18.50	1.194	62.9	1.006	0.02	0.550	**0.661**
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	42590	3500	17.75	18.50	1.189	62.9	1.006	0.12	0.418	0.500
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	42590	3500	17.73	18.50	1.194	62.9	1.006	0.02	0.425	0.510
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	42590	3500	17.75	18.50	1.189	62.9	1.006	-0.03	0.183	0.219
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	42590	3500	17.73	18.50	1.194	62.9	1.006	0.07	0.199	0.239
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	42590	3500	17.75	18.50	1.189	62.9	1.006	-0.1	0.252	0.301
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	42590	3500	17.73	18.50	1.194	62.9	1.006	0.05	0.260	0.312
	LTE Band 42_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	42590	3500	16.08	17.40	1.355	62.9	1.006	0.02	0.421	0.574
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	DSI 1	42590	3500	25.06	26.00	1.242	62.9	1.006	0.02	0.272	0.340
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	DSI 1	42590	3500	24.15	25.00	1.216	62.9	1.006	-0.03	0.270	0.330
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	DSI 1	42590	3500	25.06	26.00	1.242	62.9	1.006	-0.08	0.232	0.290
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	DSI 1	42590	3500	24.15	25.00	1.216	62.9	1.006	-0.1	0.252	0.308
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 10	DSI 1	42590	3500	25.06	26.00	1.242	62.9	1.006	0.05	0.151	0.189
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 10	DSI 1	42590	3500	24.15	25.00	1.216	62.9	1.006	-0.08	0.229	0.280
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	DSI 1	42590	3500	25.06	26.00	1.242	62.9	1.006	0.07	0.227	0.284
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 10	DSI 1	42590	3500	24.15	25.00	1.216	62.9	1.006	0.15	0.220	0.269
	LTE Band 42_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	DSI 1	42590	3500	23.55	24.70	1.303	62.9	1.006	-0.05	0.180	0.236
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	42590	3500	19.21	19.70	1.119	62.9	1.006	-0.18	0.405	0.456
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	42590	3500	19.18	19.70	1.127	62.9	1.006	0.16	0.376	0.426

	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	42590	3500	19.21	19.70	1.119	62.9	1.006	0.01	0.100	0.113
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	42590	3500	19.04	19.70	1.164	62.9	1.006	-0.01	0.099	0.116
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	42590	3500	19.21	19.70	1.119	62.9	1.006	-0.06	0.233	0.262
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	42590	3500	19.04	19.70	1.164	62.9	1.006	-0.04	0.226	0.265
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	42590	3500	19.21	19.70	1.119	62.9	1.006	-0.09	0.044	0.050
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	42590	3500	19.04	19.70	1.164	62.9	1.006	-0.17	0.042	0.049
	LTE Band 42_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	42590	3500	18.12	19.20	1.282	62.9	1.006	-0.1	0.320	0.413
	LTE Band 42	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	42590	3500	23.75	25.00	1.334	62.9	1.006	-0.13	0.060	0.080
	LTE Band 42	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	42590	3500	22.76	24.00	1.330	62.9	1.006	0.01	0.050	0.067
	LTE Band 42	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	42590	3500	23.75	25.00	1.334	62.9	1.006	-0.11	0.006	0.008
	LTE Band 42	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	42590	3500	22.76	24.00	1.330	62.9	1.006	0.03	0.003	0.004
	LTE Band 42	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	42590	3500	23.75	25.00	1.334	62.9	1.006	-0.05	0.055	0.074
	LTE Band 42	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	42590	3500	22.76	24.00	1.330	62.9	1.006	0.14	0.046	0.062
	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	42590	3500	23.75	25.00	1.334	62.9	1.006	-0.01	0.035	0.047
	LTE Band 42	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	42590	3500	22.76	24.00	1.330	62.9	1.006	-0.12	0.044	0.059
	LTE Band 42_Main PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	42590	3500	21.87	23.30	1.390	62.9	1.006	0.07	0.037	0.052
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	55830	3609	18.29	20.00	1.483	62.9	1.006	0.08	0.524	0.782
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	55340	3560	18.25	20.00	1.496	62.9	1.006	0.04	0.585	0.881
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	56150	3641	18.22	20.00	1.507	62.9	1.006	0.01	0.483	0.732
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 5	DSI 1	56640	3690	18.24	20.00	1.500	62.9	1.006	0.03	0.444	0.670
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	55830	3609	18.28	20.00	1.486	62.9	1.006	-0.08	0.530	0.792
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	55340	3560	18.20	20.00	1.514	62.9	1.006	-0.08	0.582	0.886
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	56150	3641	18.20	20.00	1.514	62.9	1.006	0.1	0.496	0.755
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 5	DSI 1	56640	3690	18.23	20.00	1.503	62.9	1.006	-0.18	0.460	0.696
	LTE Band 48	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 5	DSI 1	55830	3609	18.25	20.00	1.496	62.9	1.006	0.1	0.509	0.766
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	55830	3609	18.29	20.00	1.483	62.9	1.006	0.12	0.454	0.677
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	55340	3560	18.25	20.00	1.496	62.9	1.006	0.08	0.509	0.766
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	56150	3641	18.22	20.00	1.507	62.9	1.006	-0.17	0.418	0.634
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 5	DSI 1	56640	3690	18.24	20.00	1.500	62.9	1.006	-0.03	0.378	0.570
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	55830	3609	18.28	20.00	1.486	62.9	1.006	0.14	0.455	0.680
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	55340	3560	18.20	20.00	1.514	62.9	1.006	0.11	0.510	0.777
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	56150	3641	18.20	20.00	1.514	62.9	1.006	-0.05	0.417	0.635
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 5	DSI 1	56640	3690	18.23	20.00	1.503	62.9	1.006	0.18	0.381	0.576
	LTE Band 48	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 5	DSI 1	55830	3609	18.25	20.00	1.496	62.9	1.006	0.14	0.432	0.650
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 5	DSI 1	55830	3609	18.29	20.00	1.483	62.9	1.006	-0.17	0.218	0.325
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 5	DSI 1	55830	3609	18.28	20.00	1.486	62.9	1.006	0.17	0.223	0.333
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI 1	55830	3609	18.29	20.00	1.483	62.9	1.006	-0.05	0.268	0.400
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 5	DSI 1	55830	3609	18.28	20.00	1.486	62.9	1.006	0.01	0.253	0.378
	LTE Band 48	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 10	DSI 1	55830	3609	23.57	25.00	1.390	62.9	1.006	0.05	0.141	0.197
	LTE Band 48	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 10	DSI 1	55830	3609	22.61	24.00	1.377	62.9	1.006	0.08	0.142	0.197
	LTE Band 48	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 10	DSI 1	55830	3609	23.57	25.00	1.390	62.9	1.006	-0.18	0.121	0.169
	LTE Band 48	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 10	DSI 1	55830	3609	22.61	24.00	1.377	62.9	1.006	-0.03	0.119	0.165
	LTE Band 48	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 10	DSI 1	55830	3609	23.57	25.00	1.390	62.9	1.006	-0.04	0.128	0.179
	LTE Band 48	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 10	DSI 1	55830	3609	22.61	24.00	1.377	62.9	1.006	-0.09	0.116	0.161
	LTE Band 48	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 10	DSI 1	55830	3609	23.57	25.00	1.390	62.9	1.006	0.18	0.083	0.116
	LTE Band 48	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 10	DSI 1	55830	3609	22.61	24.00	1.377	62.9	1.006	0.11	0.092	0.127
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	55830	3609	20.67	22.00	1.358	62.9	1.006	0.18	0.512	0.700
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	55340	3560	20.62	22.00	1.374	62.9	1.006	-0.17	0.535	0.740
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	56150	3641	20.60	22.00	1.380	62.9	1.006	-0.04	0.540	0.750
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 1	56640	3690	20.48	22.00	1.419	62.9	1.006	-0.05	0.646	0.922
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	55830	3609	20.65	22.00	1.365	62.9	1.006	-0.09	0.503	0.691
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	55340	3560	20.53	22.00	1.403	62.9	1.006	-0.13	0.545	0.769
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	56150	3641	20.60	22.00	1.380	62.9	1.006	-0.01	0.573	0.796
29	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 1	56640	3690	20.52	22.00	1.406	62.9	1.006	0.01	0.667	**0.943**
	LTE Band 48_Other PA	20M	QPSK	100	0	-	Right Cheek	0mm	Ant 4	DSI 1	55830	3609	20.63	22.00	1.371	62.9	1.006	-0.09	0.508	0.701
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 1	55830	3609	20.67	22.00	1.358	62.9	1.006	0.05	0.148	0.202

	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 1	55830	3609	20.62	22.00	1.374	62.9	1.006	0.02	0.157	0.217
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 1	55830	3609	20.67	22.00	1.358	62.9	1.006	-0.13	0.324	0.443
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 1	55830	3609	20.62	22.00	1.374	62.9	1.006	0.17	0.363	0.502
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 1	55830	3609	20.67	22.00	1.358	62.9	1.006	0.06	0.075	0.102
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 1	55830	3609	20.62	22.00	1.374	62.9	1.006	0.07	0.069	0.095
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 6	DSI 1	55830	3609	21.86	23.50	1.459	62.9	1.006	0.02	0.044	0.065
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 6	DSI 1	55830	3609	20.91	22.50	1.442	62.9	1.006	-0.11	0.053	0.077
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 6	DSI 1	55830	3609	21.86	23.50	1.459	62.9	1.006	-0.01	0.010	0.015
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 6	DSI 1	55830	3609	20.91	22.50	1.442	62.9	1.006	0.09	0.006	0.009
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 6	DSI 1	55830	3609	21.86	23.50	1.459	62.9	1.006	0.1	0.046	0.068
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 6	DSI 1	55830	3609	20.91	22.50	1.442	62.9	1.006	-0.04	0.050	0.073
	LTE Band 48_Other PA	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 6	DSI 1	55830	3609	21.86	23.50	1.459	62.9	1.006	0.15	0.030	0.044
	LTE Band 48_Other PA	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 6	DSI 1	55830	3609	20.91	22.50	1.442	62.9	1.006	0.09	0.045	0.065
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	641666	3624.99	17.05	18.00	1.245	-	-	-0.07	0.685	0.852
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	638000	3570	16.98	18.00	1.265	-	-	0.08	0.644	0.814
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	645332	3679.98	16.96	18.00	1.271	-	-	0.01	0.638	0.811
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	641666	3624.99	17.02	18.00	1.253	-	-	-0.1	0.674	0.845
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	638000	3570	16.93	18.00	1.279	-	-	0.03	0.629	0.805
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	645332	3679.98	16.88	18.00	1.294	-	-	-0.08	0.633	0.819
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	641666	3624.99	16.98	18.00	1.265	-	-	0.02	0.645	0.816
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	641666	3624.99	17.05	18.00	1.245	-	-	0.07	0.674	0.839
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	638000	3570	16.98	18.00	1.265	-	-	-0.08	0.625	0.790
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	645332	3679.98	16.96	18.00	1.271	-	-	0.1	0.631	0.802
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	641666	3624.99	17.02	18.00	1.253	-	-	0.18	0.626	0.784
	FR1 n48	40M	QPSK	100	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	641666	3624.99	16.98	18.00	1.265	-	-	0.01	0.600	0.759
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	641666	3624.99	17.05	18.00	1.245	-	-	-0.1	0.309	0.385
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	641666	3624.99	17.02	18.00	1.253	-	-	0.01	0.290	0.363
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	641666	3624.99	17.05	18.00	1.245	-	-	-0.15	0.417	0.519
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	641666	3624.99	17.02	18.00	1.253	-	-	0.19	0.431	0.540
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	641666	3624.99	23.48	25.00	1.419	-	-	-0.03	0.149	0.211
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	641666	3624.99	23.45	25.00	1.429	-	-	0.09	0.135	0.193
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	641666	3624.99	23.48	25.00	1.419	-	-	-0.08	0.133	0.189
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	641666	3624.99	23.45	25.00	1.429	-	-	-0.05	0.133	0.190
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	641666	3624.99	23.48	25.00	1.419	-	-	-0.03	0.117	0.166
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	641666	3624.99	23.45	25.00	1.429	-	-	0.17	0.103	0.147
	FR1 n48	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	641666	3624.99	23.48	25.00	1.419	-	-	-0.14	0.120	0.170
	FR1 n48	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	641666	3624.99	23.45	25.00	1.429	-	-	0.06	0.113	0.161
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	641666	3624.99	19.25	20.50	1.334	-	-	-0.15	0.621	0.828
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	638000	3570	19.10	20.50	1.380	-	-	-0.18	0.589	0.813
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	645332	3679.98	19.06	20.50	1.393	-	-	0.1	0.566	0.789
30	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	641666	3624.99	19.23	20.50	1.340	-	-	-0.06	0.765	**1.025**
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	638000	3570	19.16	20.50	1.361	-	-	0.12	0.734	0.999
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	645332	3679.98	19.04	20.50	1.400	-	-	0.08	0.701	0.981
	FR1 n48_Other PA	40M	QPSK	100	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	641666	3624.99	19.19	20.50	1.352	-	-	0.13	0.603	0.815
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	641666	3624.99	19.25	20.50	1.334	-	-	-0.18	0.198	0.264
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	641666	3624.99	19.23	20.50	1.340	-	-	-0.11	0.203	0.272
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	641666	3624.99	19.25	20.50	1.334	-	-	-0.16	0.396	0.528
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	641666	3624.99	19.23	20.50	1.340	-	-	-0.15	0.364	0.488
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	641666	3624.99	19.25	20.50	1.334	-	-	-0.06	0.093	0.124
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	641666	3624.99	19.23	20.50	1.340	-	-	-0.14	0.111	0.149
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	641666	3624.99	22.15	23.60	1.396	-	-	-0.15	0.039	0.054
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	641666	3624.99	22.11	23.60	1.409	-	-	-0.12	0.052	0.073
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	641666	3624.99	22.15	23.60	1.396	-	-	-0.16	0.011	0.015
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	641666	3624.99	22.11	23.60	1.409	-	-	-0.03	0.028	0.039
	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	641666	3624.99	22.15	23.60	1.396	-	-	0.17	0.044	0.061
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	641666	3624.99	22.11	23.60	1.409	-	-	0.02	0.043	0.061

	FR1 n48_Other PA	40M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	641666	3624.99	22.15	23.60	1.396	-	-	0.01	0.036	0.050
	FR1 n48_Other PA	40M	QPSK	50	28	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	641666	3624.99	22.11	23.60	1.409	-	-	0.18	0.031	0.044
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	656000	3840	16.25	16.50	1.059	-	-	0.13	0.324	0.343
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	656000	3840	16.22	16.50	1.067	-	-	0.08	0.279	0.298
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	656000	3840	16.25	16.50	1.059	-	-	0.01	0.243	0.257
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	656000	3840	16.22	16.50	1.067	-	-	0.03	0.245	0.261
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	656000	3840	16.25	16.50	1.059	-	-	-0.08	0.119	0.126
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	656000	3840	16.22	16.50	1.067	-	-	-0.08	0.107	0.114
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	656000	3840	16.25	16.50	1.059	-	-	0.1	0.156	0.165
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	656000	3840	16.22	16.50	1.067	-	-	-0.18	0.142	0.151
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	656000	3840	19.78	20.00	1.052	50	1.000	-0.19	0.343	0.361
	FR1 n77_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	656000	3840	14.53	15.80	1.340	-	-	0.1	0.170	0.228
	FR1 n77 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	656000	3840	17.54	18.80	1.337	50	1.000	0.03	0.165	0.221
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	15.66	16.50	1.213	-	-	0.02	0.878	1.065
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	15.64	16.50	1.219	-	-	-0.18	0.714	0.870
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	15.61	16.50	1.227	-	-	0.03	0.730	0.896
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	633334	3500.01	15.66	16.50	1.213	-	-	-0.15	0.814	0.988
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	633334	3500.01	15.64	16.50	1.219	-	-	-0.15	0.682	0.831
	FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	633334	3500.01	15.61	16.50	1.227	-	-	0.11	0.637	0.782
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	633334	3500.01	15.66	16.50	1.213	-	-	-0.08	0.362	0.439
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	633334	3500.01	15.64	16.50	1.219	-	-	-0.17	0.261	0.318
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	633334	3500.01	15.66	16.50	1.213	-	-	-0.08	0.482	0.585
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	633334	3500.01	15.64	16.50	1.219	-	-	-0.04	0.370	0.451
31	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	19.24	20.00	1.191	50	1.000	0.04	0.903	**1.076**
	FR1 n77_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	14.25	15.80	1.429	-	-	-0.08	0.640	0.914
	FR1 n77 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	17.27	18.80	1.422	50	1.000	0.01	0.624	0.888
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	656000	3840	25.76	26.00	1.057	-	-	0.09	0.137	0.145
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	656000	3840	25.67	26.00	1.079	-	-	-0.02	0.103	0.111
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	656000	3840	25.76	26.00	1.057	-	-	-0.16	0.199	0.210
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	656000	3840	25.67	26.00	1.079	-	-	-0.03	0.152	0.164
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	656000	3840	25.76	26.00	1.057	-	-	-0.06	0.096	0.101
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	656000	3840	25.67	26.00	1.079	-	-	0.08	0.071	0.077
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	656000	3840	25.76	26.00	1.057	-	-	-0.07	0.116	0.123
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	656000	3840	25.67	26.00	1.079	-	-	0.11	0.097	0.105
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	656000	3840	27.72	29.00	1.343	50	1.000	-0.13	0.162	0.218
	FR1 n77_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	656000	3840	24.13	25.70	1.435	-	-	0.04	0.164	0.235
	FR1 n77 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	656000	3840	26.16	27.50	1.361	50	1.000	0.01	0.132	0.180
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.57	26.00	1.104	-	-	-0.09	0.356	0.393
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.56	26.00	1.107	-	-	-0.12	0.330	0.365
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.57	26.00	1.104	-	-	-0.06	0.344	0.380
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.56	26.00	1.107	-	-	-0.19	0.297	0.329
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.57	26.00	1.104	-	-	0.09	0.349	0.385
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.56	26.00	1.107	-	-	0.13	0.235	0.260
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.57	26.00	1.104	-	-	-0.08	0.294	0.325
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.56	26.00	1.107	-	-	0.08	0.274	0.303
	FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	27.60	29.00	1.380	50	1.000	-0.04	0.286	0.395
	FR1 n77_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	23.94	25.70	1.500	-	-	0.12	0.265	0.397
	FR1 n77 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.88	27.50	1.452	50	1.000	0.02	0.203	0.295
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	656000	3840	19.45	19.50	1.012	-	-	0.01	0.749	0.758
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	656000	3840	19.41	19.50	1.021	-	-	-0.05	0.760	0.776
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	656000	3840	19.45	19.50	1.012	-	-	0.02	0.347	0.351
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	656000	3840	19.41	19.50	1.021	-	-	0.12	0.351	0.358
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	656000	3840	19.45	19.50	1.012	-	-	-0.12	0.185	0.187
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	656000	3840	19.41	19.50	1.021	-	-	0.07	0.196	0.200
	FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	656000	3840	19.45	19.50	1.012	-	-	-0.02	0.127	0.128
	FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	656000	3840	19.41	19.50	1.021	-	-	-0.05	0.134	0.137

FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	656000	3840	22.92	23.00	1.019	50	1.000	0.03	0.776	0.790
FR1 n77_Main PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	656000	3840	18.12	18.70	1.143	-	-	-0.13	0.544	0.622
FR1 n77 PC2_Main PA	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	656000	3840	21.15	21.70	1.135	50	1.000	0.01	0.531	0.603
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.07	19.50	1.104	-	-	0.01	0.841	0.929
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.01	19.50	1.119	-	-	0.08	0.768	0.860
FR1 n77	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.00	19.50	1.122	-	-	0.16	0.714	0.801
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.07	19.50	1.104	-	-	0.01	0.193	0.213
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.01	19.50	1.119	-	-	-0.16	0.173	0.194
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.07	19.50	1.104	-	-	0.1	0.553	0.611
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.01	19.50	1.119	-	-	-0.04	0.455	0.509
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.07	19.50	1.104	-	-	-0.09	0.070	0.077
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.01	19.50	1.119	-	-	-0.11	0.065	0.073
FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	22.62	23.00	1.091	50	1.000	-0.02	0.876	0.956
FR1 n77_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	18.10	18.70	1.148	-	-	-0.06	0.788	0.905
FR1 n77 PC2_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	21.11	21.70	1.146	50	1.000	0.02	0.756	0.866
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	656000	3840	24.15	25.30	1.303	-	-	0.13	0.073	0.095
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	656000	3840	24.13	25.30	1.309	-	-	-0.09	0.076	0.099
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	656000	3840	24.15	25.30	1.303	-	-	-0.12	0.051	0.066
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	656000	3840	24.13	25.30	1.309	-	-	0.15	0.043	0.056
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	656000	3840	24.15	25.30	1.303	-	-	-0.05	0.140	0.182
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	656000	3840	24.13	25.30	1.309	-	-	-0.07	0.157	0.206
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	656000	3840	24.15	25.30	1.303	-	-	0.1	0.046	0.060
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	656000	3840	24.13	25.30	1.309	-	-	-0.11	0.046	0.060
FR1 n77 PC2	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	656000	3840	26.14	27.30	1.306	50	1.000	-0.02	0.128	0.167
FR1 n77_Main PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	656000	3840	22.32	23.70	1.374	-	-	-0.1	0.073	0.100
FR1 n77 PC2_Main PA	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	656000	3840	24.49	25.70	1.321	50	1.000	-0.05	0.059	0.078
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.65	25.30	1.462	-	-	0.14	0.152	0.222
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.62	25.30	1.472	-	-	0.04	0.104	0.153
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.65	25.30	1.462	-	-	-0.05	0.059	0.086
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.62	25.30	1.472	-	-	-0.04	0.059	0.087
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.65	25.30	1.462	-	-	0.14	0.125	0.183
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.62	25.30	1.472	-	-	0.03	0.100	0.147
FR1 n77	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.65	25.30	1.462	-	-	0.16	0.068	0.099
FR1 n77	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.62	25.30	1.472	-	-	0.01	0.054	0.080
FR1 n77 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	25.66	27.30	1.459	50	1.000	-0.06	0.115	0.168
FR1 n77_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	22.36	23.70	1.361	-	-	0.14	0.099	0.135
FR1 n77 PC2_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	24.01	25.70	1.476	50	1.000	0.03	0.073	0.108
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	650000	3750	16.25	16.50	1.059	-	-	0.05	0.361	0.382
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	650000	3750	16.19	16.50	1.074	-	-	0.17	0.321	0.345
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	650000	3750	16.25	16.50	1.059	-	-	-0.05	0.310	0.328
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	650000	3750	16.19	16.50	1.074	-	-	0.01	0.290	0.311
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	650000	3750	16.25	16.50	1.059	-	-	0.1	0.154	0.163
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	650000	3750	16.19	16.50	1.074	-	-	-0.17	0.136	0.146
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	650000	3750	16.25	16.50	1.059	-	-	0.04	0.198	0.210
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	650000	3750	16.19	16.50	1.074	-	-	-0.01	0.172	0.185
FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	650000	3750	19.78	20.00	1.052	50	1.000	-0.01	0.375	0.394
FR1 n78_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	650000	3750	14.39	15.50	1.291	-	-	0.05	0.233	0.301
FR1 n78 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	650000	3750	17.45	18.50	1.274	50	1.000	0.08	0.225	0.287
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	16.16	16.50	1.081	-	-	0.08	0.743	0.804
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	16.11	16.50	1.094	-	-	0.12	0.564	0.617
FR1 n78	100M	QPSK	270	0	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	16.00	16.50	1.122	-	-	0.02	0.558	0.626
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	633334	3500.01	16.16	16.50	1.081	-	-	-0.17	0.666	0.720
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 5	DSI 1	633334	3500.01	16.11	16.50	1.094	-	-	-0.03	0.537	0.587
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	633334	3500.01	16.16	16.50	1.081	-	-	0.11	0.291	0.315
FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 5	DSI 1	633334	3500.01	16.11	16.50	1.094	-	-	-0.05	0.234	0.256
FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	633334	3500.01	16.16	16.50	1.081	-	-	0.18	0.410	0.443

	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 5	DSI 1	633334	3500.01	16.11	16.50	1.094	-	-	0.14	0.323	0.353
32	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	19.55	20.00	1.109	50	1.000	0.04	0.753	**0.835**
	FR1 n78_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	14.05	15.50	1.396	-	-	-0.17	0.528	0.737
	FR1 n78 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 5	DSI 1	633334	3500.01	17.09	18.50	1.384	50	1.000	0.01	0.513	0.710
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	650000	3750	25.56	26.00	1.107	-	-	0.1	0.219	0.242
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	650000	3750	25.45	26.00	1.135	-	-	0.11	0.162	0.184
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	650000	3750	25.56	26.00	1.107	-	-	-0.07	0.265	0.293
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	650000	3750	25.45	26.00	1.135	-	-	0.18	0.229	0.260
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	650000	3750	25.56	26.00	1.107	-	-	0.12	0.152	0.168
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	650000	3750	25.45	26.00	1.135	-	-	0.07	0.121	0.137
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	650000	3750	25.56	26.00	1.107	-	-	0.15	0.187	0.207
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	650000	3750	25.45	26.00	1.135	-	-	0.14	0.145	0.165
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	650000	3750	27.53	29.00	1.403	50	1.000	-0.03	0.214	0.300
	FR1 n78_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	650000	3750	24.13	24.90	1.194	-	-	-0.14	0.151	0.180
	FR1 n78 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	650000	3750	26.03	26.80	1.194	50	1.000	0.03	0.109	0.130
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.67	26.00	1.079	-	-	0.11	0.371	0.400
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.49	26.00	1.125	-	-	0.07	0.345	0.388
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.67	26.00	1.079	-	-	-0.04	0.337	0.364
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.49	26.00	1.125	-	-	-0.18	0.313	0.352
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.67	26.00	1.079	-	-	-0.13	0.258	0.278
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.49	26.00	1.125	-	-	-0.13	0.239	0.269
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.67	26.00	1.079	-	-	0.05	0.318	0.343
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 10	DSI 1	633334	3500.01	25.49	26.00	1.125	-	-	-0.04	0.307	0.345
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	27.47	29.00	1.422	50	1.000	-0.15	0.293	0.417
	FR1 n78_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	23.74	24.90	1.306	-	-	-0.09	0.260	0.340
	FR1 n78 PC2_Other PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 10	DSI 1	633334	3500.01	25.64	26.80	1.306	50	1.000	-0.08	0.215	0.281
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	650000	3750	19.40	19.50	1.023	-	-	0.06	0.640	0.655
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	650000	3750	19.35	19.50	1.035	-	-	-0.09	0.585	0.606
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	650000	3750	19.40	19.50	1.023	-	-	0.13	0.232	0.237
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	650000	3750	19.35	19.50	1.035	-	-	0.12	0.243	0.252
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	650000	3750	19.40	19.50	1.023	-	-	0.03	0.135	0.138
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	650000	3750	19.35	19.50	1.035	-	-	0.18	0.140	0.145
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	650000	3750	19.40	19.50	1.023	-	-	0.16	0.084	0.086
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	650000	3750	19.35	19.50	1.035	-	-	-0.1	0.097	0.100
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	650000	3750	22.95	23.00	1.012	50	1.000	0.01	0.658	0.666
	FR1 n78_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	650000	3750	17.84	18.60	1.191	-	-	0.07	0.395	0.471
	FR1 n78 PC2_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	650000	3750	20.89	21.60	1.178	50	1.000	-0.08	0.385	0.453
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.15	19.50	1.084	-	-	0.01	0.730	0.791
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.14	19.50	1.086	-	-	0.01	0.570	0.619
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.15	19.50	1.084	-	-	-0.08	0.168	0.182
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.14	19.50	1.086	-	-	-0.08	0.147	0.160
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.15	19.50	1.084	-	-	0.1	0.431	0.467
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 4	DSI 1	633334	3500.01	19.14	19.50	1.086	-	-	-0.18	0.399	0.433
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.15	19.50	1.084	-	-	0.12	0.076	0.082
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 4	DSI 1	633334	3500.01	19.14	19.50	1.086	-	-	0.08	0.069	0.075
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	22.70	23.00	1.072	50	1.000	0.08	0.751	0.805
	FR1 n78_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	18.09	18.60	1.125	-	-	-0.17	0.609	0.685
	FR1 n78 PC2_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 4	DSI 1	633334	3500.01	21.11	21.60	1.119	50	1.000	0.1	0.601	0.673
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	650000	3750	24.17	25.30	1.297	-	-	-0.05	0.094	0.122
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	650000	3750	24.09	25.30	1.321	-	-	-0.04	0.074	0.098
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	650000	3750	24.17	25.30	1.297	-	-	-0.08	0.066	0.086
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	650000	3750	24.09	25.30	1.321	-	-	0.01	0.058	0.077
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	650000	3750	24.17	25.30	1.297	-	-	-0.14	0.129	0.167
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	650000	3750	24.09	25.30	1.321	-	-	0.01	0.090	0.119
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	650000	3750	24.17	25.30	1.297	-	-	0.18	0.051	0.066
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	650000	3750	24.09	25.30	1.321	-	-	0.02	0.049	0.065

	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	650000	3750	26.13	27.20	1.279	50	1.000	0.16	0.107	0.137
	FR1 n78_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	650000	3750	22.48	23.70	1.324	-	-	0.06	0.072	0.095
	FR1 n78 PC2_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	650000	3750	24.64	25.50	1.219	50	1.000	-0.18	0.058	0.071
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.72	25.30	1.439	-	-	-0.02	0.145	0.209
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.61	25.30	1.476	-	-	0.07	0.100	0.148
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.72	25.30	1.439	-	-	-0.17	0.044	0.063
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Right Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.61	25.30	1.476	-	-	0.1	0.050	0.074
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.72	25.30	1.439	-	-	0.08	0.125	0.180
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Cheek	0mm	Ant 6	DSI 1	633334	3500.01	23.61	25.30	1.476	-	-	-0.17	0.071	0.105
	FR1 n78	100M	QPSK	1	1	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.72	25.30	1.439	-	-	-0.13	0.077	0.111
	FR1 n78	100M	QPSK	135	69	DFT-SCS-30KHz	Left Tilted	0mm	Ant 6	DSI 1	633334	3500.01	23.61	25.30	1.476	-	-	-0.1	0.053	0.078
	FR1 n78 PC2	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	25.69	27.20	1.416	50	1.000	-0.07	0.117	0.166
	FR1 n78_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	22.23	23.70	1.403	-	-	0.11	0.096	0.135
	FR1 n78 PC2_Main PA	100M	QPSK	1	1	DFT-SCS-30KHz	Right Cheek	0mm	Ant 6	DSI 1	633334	3500.01	24.20	25.50	1.349	50	1.000	0.1	0.081	0.109

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2450MHz																
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant15+7(15)	Standalone	1	2412	17.98	18.50	1.127	97.04	1.031	-0.18	0.496	0.576
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant15+7(15)	Standalone	1	2412	17.98	18.50	1.127	97.04	1.031	-0.12	0.696	0.809
33	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant15+7(15)	Standalone	6	2437	18.00	18.50	1.122	97.04	1.031	0.08	0.890	**1.030**
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant15+7(15)	Standalone	1	2412	17.98	18.50	1.127	97.04	1.031	0.03	0.563	0.654
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant15+7(15)	Standalone	1	2412	17.98	18.50	1.127	97.04	1.031	-0.13	0.625	0.726
	Bluetooth	1Mbps	Right Cheek	0mm	Ant15	Full power	39	2441	16.22	17.50	1.343	76.93	1.083	0.1	0.350	0.509
34	Bluetooth	1Mbps	Right Tilted	0mm	Ant15	Full power	39	2441	16.22	17.50	1.343	76.93	1.083	-0.04	0.586	**0.852**
	Bluetooth	1Mbps	Right Tilted	0mm	Ant15	Full power	0	2402	15.73	17.50	1.503	76.93	1.083	0.02	0.511	0.832
	Bluetooth	1Mbps	Left Cheek	0mm	Ant15	Full power	39	2441	16.22	17.50	1.343	76.93	1.083	0.18	0.400	0.582
	Bluetooth	1Mbps	Left Tilted	0mm	Ant15	Full power	39	2441	16.22	17.50	1.343	76.93	1.083	-0.18	0.147	0.214
	Bluetooth	1Mbps	Right Cheek	0mm	Ant7	Full power	0	2402	15.77	17.00	1.327	77.02	1.082	-0.11	0.087	0.125
	Bluetooth	1Mbps	Right Tilted	0mm	Ant7	Full power	0	2402	15.77	17.00	1.327	77.02	1.082	-0.1	0.010	0.014
	Bluetooth	1Mbps	Left Cheek	0mm	Ant7	Full power	0	2402	15.77	17.00	1.327	77.02	1.082	0.01	0.143	0.205
	Bluetooth	1Mbps	Left Tilted	0mm	Ant7	Full power	0	2402	15.77	17.00	1.327	77.02	1.082	-0.01	0.051	0.073
5000MHz																
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant17+16(16)	Standalone	58	5290	15.20	16.00	1.202	100	1.000	0.04	0.473	0.569
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant17+16(16)	Standalone	58	5290	15.20	16.00	1.202	100	1.000	-0.17	0.441	0.530
35	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant17+16(16)	Standalone	58	5290	15.20	16.00	1.202	100	1.000	0.03	0.901	**1.083**
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant17+16(16)	Standalone	58	5290	15.20	16.00	1.202	100	1.000	0.03	0.652	0.784
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant17+16(16)	Standalone	106	5530	15.77	16.50	1.183	100	1.000	-0.01	0.349	0.413
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant17+16(16)	Standalone	106	5530	15.77	16.50	1.183	100	1.000	0.05	0.265	0.314
36	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant17+16(16)	Standalone	106	5530	15.77	16.50	1.183	100	1.000	-0.18	0.860	**1.017**
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant17+16	Standalone	138	5690	18.65	19.50	1.216	100	1.000	-0.01	0.740	0.900
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant17+16(16)	Standalone	106	5530	15.77	16.50	1.183	100	1.000	0.06	0.436	0.516
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant17+16(17)	Standalone	155	5775	16.33	17.00	1.167	100	1.000	0.16	0.371	0.433
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant17+16(17)	Standalone	155	5775	16.33	17.00	1.167	100	1.000	0.04	0.291	0.340
37	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant17+16(17)	Standalone	155	5775	16.33	17.00	1.167	100	1.000	-0.02	0.931	**1.086**
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant17+16(17)	Standalone	155	5775	16.33	17.00	1.167	100	1.000	0.11	0.546	0.637

16.2 Hotspot SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
									750MHz											
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 5	133322	683	25.14	25.70	1.138	-	-	0.02	0.248	0.282
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 0	DSI 5	133322	683	24.19	24.70	1.125	-	-	-0.13	0.215	0.242
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 5	133322	683	25.14	25.70	1.138	-	-	0.17	0.256	0.291
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 0	DSI 5	133322	683	24.19	24.70	1.125	-	-	0.06	0.213	0.240
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 5	133322	683	25.14	25.70	1.138	-	-	0.1	0.163	0.185
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 0	DSI 5	133322	683	24.19	24.70	1.125	-	-	-0.04	0.135	0.152
38	LTE Band 71	20M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 5	133322	683	25.14	25.70	1.138	-	-	-0.04	0.455	**0.518**
	LTE Band 71	20M	QPSK	50	0	-	Right Side	10mm	Ant 0	DSI 5	133322	683	24.19	24.70	1.125	-	-	-0.15	0.360	0.405
	LTE Band 71	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 5	133322	683	25.14	25.70	1.138	-	-	0.11	0.151	0.172
	LTE Band 71	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 0	DSI 5	133322	683	24.19	24.70	1.125	-	-	-0.02	0.129	0.145
	LTE Band 71	20M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 5	133322	683	25.35	25.40	1.012	-	-	0.04	0.206	0.208
	LTE Band 71	20M	QPSK	50	0	-	Front	10mm	Ant 1	DSI 5	133322	683	24.40	24.40	1.000	-	-	0.13	0.204	0.204
	LTE Band 71	20M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 5	133322	683	25.35	25.40	1.012	-	-	-0.18	0.283	0.286
	LTE Band 71	20M	QPSK	50	0	-	Back	10mm	Ant 1	DSI 5	133322	683	24.40	24.40	1.000	-	-	-0.11	0.282	0.282
	LTE Band 71	20M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 5	133322	683	25.35	25.40	1.012	-	-	-0.04	0.461	0.466
	LTE Band 71	20M	QPSK	50	0	-	Left Side	10mm	Ant 1	DSI 5	133322	683	24.40	24.40	1.000	-	-	-0.16	0.441	0.441
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 5	23095	707.5	25.16	25.70	1.132	-	-	-0.15	0.313	0.354
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 5	23095	707.5	24.18	24.70	1.127	-	-	-0.06	0.262	0.295
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 5	23095	707.5	25.16	25.70	1.132	-	-	-0.14	0.341	0.386
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 5	23095	707.5	24.18	24.70	1.127	-	-	-0.19	0.291	0.328
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 5	23095	707.5	25.16	25.70	1.132	-	-	0.01	0.152	0.172
	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 5	23095	707.5	24.18	24.70	1.127	-	-	0.01	0.132	0.149
	LTE Band 12	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 5	23095	707.5	25.16	25.70	1.132	-	-	0.06	0.540	0.611
	LTE Band 12	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 5	23095	707.5	24.18	24.70	1.127	-	-	0.02	0.471	0.531
	LTE Band 12	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 5	23095	707.5	25.16	25.70	1.132	-	-	0.12	0.157	0.178
	LTE Band 12	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 5	23095	707.5	24.18	24.70	1.127	-	-	-0.16	0.132	0.149
	LTE Band 12	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 5	23095	707.5	24.32	24.70	1.091	-	-	-0.12	0.254	0.277
	LTE Band 12	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 5	23095	707.5	24.30	24.70	1.096	-	-	0.07	0.281	0.308
	LTE Band 12	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 5	23095	707.5	24.32	24.70	1.091	-	-	-0.02	0.357	0.390
	LTE Band 12	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 5	23095	707.5	24.30	24.70	1.096	-	-	-0.05	0.387	0.424
	LTE Band 12	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 5	23095	707.5	24.32	24.70	1.091	-	-	-0.13	0.572	0.624
39	LTE Band 12	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 5	23095	707.5	24.30	24.70	1.096	-	-	0.08	0.655	**0.718**
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 5	23230	782	25.14	25.70	1.138	-	-	0.16	0.250	0.284
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 5	23230	782	24.16	24.70	1.132	-	-	0.01	0.192	0.217
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 5	23230	782	25.14	25.70	1.138	-	-	-0.04	0.263	0.299
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 5	23230	782	24.16	24.70	1.132	-	-	-0.16	0.206	0.233
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 5	23230	782	25.14	25.70	1.138	-	-	0.1	0.010	0.011
	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 5	23230	782	24.16	24.70	1.132	-	-	-0.04	0.006	0.007
	LTE Band 13	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 5	23230	782	25.14	25.70	1.138	-	-	-0.01	0.194	0.221
	LTE Band 13	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 5	23230	782	24.16	24.70	1.132	-	-	-0.15	0.176	0.199
	LTE Band 13	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 5	23230	782	25.14	25.70	1.138	-	-	-0.11	0.143	0.163
	LTE Band 13	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 5	23230	782	24.16	24.70	1.132	-	-	-0.06	0.114	0.129
	LTE Band 13	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 5	23230	782	22.01	22.20	1.045	-	-	0.03	0.417	0.436
	LTE Band 13	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 5	23230	782	21.97	22.20	1.054	-	-	-0.13	0.431	0.454
	LTE Band 13	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 5	23230	782	22.01	22.20	1.045	-	-	0.16	0.568	0.593
	LTE Band 13	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 5	23230	782	21.97	22.20	1.054	-	-	-0.15	0.573	0.604
	LTE Band 13	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 5	23230	782	22.01	22.20	1.045	-	-	-0.02	0.590	0.616
40	LTE Band 13	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 5	23230	782	21.97	22.20	1.054	-	-	0.01	0.604	**0.637**
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	136100	680.5	25.25	25.70	1.109	-	-	-0.09	0.210	0.233

	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	136100	680.5	25.21	25.70	1.119	-	-	0.08	0.273	0.306
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	136100	680.5	25.25	25.70	1.109	-	-	0.14	0.225	0.250
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	136100	680.5	25.21	25.70	1.119	-	-	0.1	0.278	0.311
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	136100	680.5	25.25	25.70	1.109	-	-	-0.09	0.125	0.139
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	136100	680.5	25.21	25.70	1.119	-	-	0.07	0.182	0.204
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	136100	680.5	25.25	25.70	1.109	-	-	-0.09	0.347	0.385
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	136100	680.5	25.21	25.70	1.119	-	-	-0.02	0.437	0.489
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	136100	680.5	25.25	25.70	1.109	-	-	-0.18	0.087	0.096
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	136100	680.5	25.21	25.70	1.119	-	-	-0.07	0.108	0.121
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	136100	680.5	23.83	24.20	1.089	-	-	0.11	0.342	0.372
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	136100	680.5	23.80	24.20	1.096	-	-	0.08	0.436	0.478
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	136100	680.5	23.83	24.20	1.089	-	-	-0.08	0.491	0.535
	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	136100	680.5	23.80	24.20	1.096	-	-	-0.1	0.601	0.659
	FR1 n71	35M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	136100	680.5	23.83	24.20	1.089	-	-	-0.01	0.701	0.763
41	FR1 n71	35M	QPSK	90	45	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	136100	680.5	23.80	24.20	1.096	-	-	-0.05	0.720	**0.789**
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	141500	707.5	25.52	25.70	1.042	-	-	-0.17	0.257	0.268
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	141500	707.5	25.47	25.70	1.054	-	-	-0.01	0.290	0.306
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	141500	707.5	25.52	25.70	1.042	-	-	-0.11	0.299	0.312
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	141500	707.5	25.47	25.70	1.054	-	-	0.14	0.317	0.334
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	141500	707.5	25.52	25.70	1.042	-	-	0.03	0.156	0.163
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	141500	707.5	25.47	25.70	1.054	-	-	0.1	0.164	0.173
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	141500	707.5	25.52	25.70	1.042	-	-	0.16	0.474	0.494
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	141500	707.5	25.47	25.70	1.054	-	-	-0.12	0.499	0.526
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	141500	707.5	25.52	25.70	1.042	-	-	-0.06	0.103	0.107
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	141500	707.5	25.47	25.70	1.054	-	-	0.02	0.138	0.146
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	141500	707.5	24.68	24.70	1.005	-	-	-0.16	0.289	0.290
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	141500	707.5	24.65	24.70	1.012	-	-	0.05	0.384	0.388
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	141500	707.5	24.68	24.70	1.005	-	-	-0.03	0.424	0.426
	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	141500	707.5	24.65	24.70	1.012	-	-	0.17	0.540	0.546
	FR1 n12	15M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	141500	707.5	24.68	24.70	1.005	-	-	-0.15	0.753	0.756
42	FR1 n12	15M	QPSK	36	22	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	141500	707.5	24.65	24.70	1.012	-	-	0.16	0.849	**0.859**
	FR1 n12	15M	QPSK	75	0	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	141500	707.5	24.63	24.70	1.016	-	-	0.16	0.830	0.843
850MHz																				
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 0	DSI 5	189	836.4	26.89	28.00	1.291	-	-	-0.15	0.199	0.257
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 0	DSI 5	189	836.4	26.89	28.00	1.291	-	-	-0.02	0.248	0.320
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 0	DSI 5	189	836.4	26.89	28.00	1.291	-	-	-0.09	0.137	0.177
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Right Side	10mm	Ant 0	DSI 5	189	836.4	26.89	28.00	1.291	-	-	-0.07	0.392	0.506
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 0	DSI 5	189	836.4	26.89	28.00	1.291	-	-	0.14	0.162	0.209
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	10mm	Ant 1	DSI 5	189	836.4	24.59	26.10	1.416	-	-	0.1	0.422	0.597
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	10mm	Ant 1	DSI 5	189	836.4	24.59	26.10	1.416	-	-	-0.09	0.549	0.777
43	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	DSI 5	189	836.4	24.59	26.10	1.416	-	-	-0.04	0.678	**0.960**
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	DSI 5	128	824.2	24.48	26.10	1.452	-	-	-0.11	0.645	0.937
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Left Side	10mm	Ant 1	DSI 5	251	848.8	24.53	26.10	1.435	-	-	0.04	0.628	0.901
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 0	DSI 5	4182	836.4	24.43	25.00	1.140	-	-	-0.06	0.214	0.244
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 0	DSI 5	4182	836.4	24.43	25.00	1.140	-	-	0.02	0.239	0.273
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 0	DSI 5	4182	836.4	24.43	25.00	1.140	-	-	-0.03	0.134	0.153
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 0	DSI 5	4182	836.4	24.43	25.00	1.140	-	-	0.07	0.384	0.438
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 0	DSI 5	4182	836.4	24.43	25.00	1.140	-	-	-0.12	0.167	0.190
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 1	DSI 5	4182	836.4	20.51	21.50	1.256	-	-	-0.03	0.426	0.535
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 5	4182	836.4	20.51	21.50	1.256	-	-	0.02	0.607	0.762
44	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 5	4182	836.4	20.51	21.50	1.256	-	-	-0.01	0.756	**0.950**
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 5	4132	826.4	20.48	21.50	1.265	-	-	0.16	0.738	0.933
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 1	DSI 5	4233	846.6	20.45	21.50	1.274	-	-	0.17	0.716	0.912
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 5	20525	836.5	25.25	25.70	1.109	-	-	-0.18	0.327	0.363
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 0	DSI 5	20525	836.5	24.28	24.70	1.102	-	-	-0.06	0.343	0.378
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 5	20525	836.5	25.25	25.70	1.109	-	-	0.02	0.407	0.451

	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 0	DSI 5	20525	836.5	24.28	24.70	1.102	-	-	0.16	0.427	0.470
	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 5	20525	836.5	25.25	25.70	1.109	-	-	0.01	0.113	0.125
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 0	DSI 5	20525	836.5	24.28	24.70	1.102	-	-	-0.04	0.102	0.112
	LTE Band 5	10M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 5	20525	836.5	25.25	25.70	1.109	-	-	0.13	0.564	0.626
	LTE Band 5	10M	QPSK	25	0	-	Right Side	10mm	Ant 0	DSI 5	20525	836.5	24.28	24.70	1.102	-	-	0.01	0.593	0.653
	LTE Band 5	10M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 5	20525	836.5	25.25	25.70	1.109	-	-	0.12	0.284	0.315
	LTE Band 5	10M	QPSK	25	0	-	Bottom Side	10mm	Ant 0	DSI 5	20525	836.5	24.28	24.70	1.102	-	-	0.07	0.285	0.314
	LTE Band 5	10M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 5	20525	836.5	21.11	21.70	1.146	-	-	0.08	0.388	0.444
	LTE Band 5	10M	QPSK	25	0	-	Front	10mm	Ant 1	DSI 5	20525	836.5	21.08	21.70	1.153	-	-	0.19	0.394	0.454
	LTE Band 5	10M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 5	20525	836.5	21.11	21.70	1.146	-	-	-0.06	0.532	0.609
	LTE Band 5	10M	QPSK	25	0	-	Back	10mm	Ant 1	DSI 5	20525	836.5	21.08	21.70	1.153	-	-	0.07	0.524	0.604
45	LTE Band 5	10M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 5	20525	836.5	21.11	21.70	1.146	-	-	0.02	0.663	**0.759**
	LTE Band 5	10M	QPSK	25	0	-	Left Side	10mm	Ant 1	DSI 5	20525	836.5	21.08	21.70	1.153	-	-	-0.03	0.642	0.741
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 0	DSI 5	26865	831.5	25.04	25.70	1.164	-	-	-0.12	0.320	0.373
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 0	DSI 5	26865	831.5	24.12	24.70	1.143	-	-	-0.03	0.334	0.382
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 0	DSI 5	26865	831.5	25.04	25.70	1.164	-	-	0.02	0.417	0.485
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 0	DSI 5	26865	831.5	24.12	24.70	1.143	-	-	0.12	0.429	0.490
	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 0	DSI 5	26865	831.5	25.04	25.70	1.164	-	-	0.02	0.107	0.125
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 0	DSI 5	26865	831.5	24.12	24.70	1.143	-	-	-0.03	0.107	0.122
	LTE Band 26	15M	QPSK	1	0	-	Right Side	10mm	Ant 0	DSI 5	26865	831.5	25.04	25.70	1.164	-	-	0.07	0.536	0.624
	LTE Band 26	15M	QPSK	36	0	-	Right Side	10mm	Ant 0	DSI 5	26865	831.5	24.12	24.70	1.143	-	-	-0.1	0.612	0.699
	LTE Band 26	15M	QPSK	1	0	-	Bottom Side	10mm	Ant 0	DSI 5	26865	831.5	25.04	25.70	1.164	-	-	0.05	0.272	0.317
	LTE Band 26	15M	QPSK	36	0	-	Bottom Side	10mm	Ant 0	DSI 5	26865	831.5	24.12	24.70	1.143	-	-	0.15	0.277	0.317
	LTE Band 26	15M	QPSK	1	0	-	Front	10mm	Ant 1	DSI 5	26865	831.5	21.15	21.70	1.135	-	-	-0.01	0.394	0.447
	LTE Band 26	15M	QPSK	36	0	-	Front	10mm	Ant 1	DSI 5	26865	831.5	21.14	21.70	1.138	-	-	-0.11	0.423	0.481
	LTE Band 26	15M	QPSK	1	0	-	Back	10mm	Ant 1	DSI 5	26865	831.5	21.15	21.70	1.135	-	-	0.14	0.574	0.651
	LTE Band 26	15M	QPSK	36	0	-	Back	10mm	Ant 1	DSI 5	26865	831.5	21.14	21.70	1.138	-	-	0.03	0.567	0.645
46	LTE Band 26	15M	QPSK	1	0	-	Left Side	10mm	Ant 1	DSI 5	26865	831.5	21.15	21.70	1.135	-	-	-0.05	0.694	**0.788**
	LTE Band 26	15M	QPSK	36	0	-	Left Side	10mm	Ant 1	DSI 5	26865	831.5	21.14	21.70	1.138	-	-	0.16	0.690	0.785
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	167300	836.5	25.33	25.70	1.089	-	-	-0.06	0.335	0.365
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	167300	836.5	25.23	25.70	1.114	-	-	0.02	0.325	0.362
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	167300	836.5	25.33	25.70	1.089	-	-	-0.16	0.420	0.457
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	167300	836.5	25.23	25.70	1.114	-	-	0.05	0.394	0.439
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	167300	836.5	25.33	25.70	1.089	-	-	-0.03	0.114	0.124
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	167300	836.5	25.23	25.70	1.114	-	-	0.17	0.108	0.120
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	167300	836.5	25.33	25.70	1.089	-	-	0.01	0.579	0.630
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	167300	836.5	25.23	25.70	1.114	-	-	0.16	0.528	0.588
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	167300	836.5	25.33	25.70	1.089	-	-	0.05	0.293	0.319
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	167300	836.5	25.23	25.70	1.114	-	-	-0.06	0.268	0.299
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	167300	836.5	21.05	21.20	1.035	-	-	-0.1	0.456	0.472
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	167300	836.5	21.01	21.20	1.045	-	-	-0.01	0.436	0.455
	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	167300	836.5	21.05	21.20	1.035	-	-	-0.09	0.643	0.666
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	167300	836.5	21.01	21.20	1.045	-	-	-0.06	0.635	0.663
47	FR1 n5	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	167300	836.5	21.05	21.20	1.035	-	-	-0.01	0.777	**0.804**
	FR1 n5	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	167300	836.5	21.01	21.20	1.045	-	-	-0.17	0.742	0.775
	FR1 n5	20M	QPSK	100	0	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	167300	836.5	20.98	21.20	1.052	-	-	0.02	0.722	0.760
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	166300	831.5	25.39	25.70	1.074	-	-	-0.13	0.356	0.382
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 0	DSI 5	166300	831.5	25.34	25.70	1.086	-	-	-0.01	0.343	0.373
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	166300	831.5	25.39	25.70	1.074	-	-	-0.11	0.449	0.482
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 0	DSI 5	166300	831.5	25.34	25.70	1.086	-	-	0.19	0.449	0.488
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	166300	831.5	25.39	25.70	1.074	-	-	-0.14	0.126	0.135
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 0	DSI 5	166300	831.5	25.34	25.70	1.086	-	-	-0.18	0.124	0.135
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	166300	831.5	25.39	25.70	1.074	-	-	0.04	0.616	0.662
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Right Side	10mm	Ant 0	DSI 5	166300	831.5	25.34	25.70	1.086	-	-	0.02	0.598	0.650
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	166300	831.5	25.39	25.70	1.074	-	-	0.16	0.311	0.334
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Bottom Side	10mm	Ant 0	DSI 5	166300	831.5	25.34	25.70	1.086	-	-	0.01	0.313	0.340

	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	166300	831.5	20.55	20.70	1.035	-	-	-0.04	0.358	0.371
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Front	10mm	Ant 1	DSI 5	166300	831.5	20.53	20.70	1.040	-	-	0.13	0.356	0.370
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	166300	831.5	20.55	20.70	1.035	-	-	0.12	0.496	0.513
	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Back	10mm	Ant 1	DSI 5	166300	831.5	20.53	20.70	1.040	-	-	0.07	0.523	0.544
	FR1 n26	20M	QPSK	1	1	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	166300	831.5	20.55	20.70	1.035	-	-	0.08	0.616	0.638
48	FR1 n26	20M	QPSK	50	28	DFT-SCS-15KHz	Left Side	10mm	Ant 1	DSI 5	166300	831.5	20.53	20.70	1.040	-	-	-0.02	0.639	**0.665**
1750MHz																				
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 5	DSI 5	1413	1732.6	19.65	20.50	1.216	-	-	-0.03	0.155	0.189
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 5	DSI 5	1413	1732.6	19.65	20.50	1.216	-	-	-0.13	0.259	0.315
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 5	DSI 5	1413	1732.6	19.65	20.50	1.216	-	-	-0.1	0.159	0.193
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 5	DSI 5	1413	1732.6	19.65	20.50	1.216	-	-	0.05	0.287	0.349
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 4	DSI 5	1413	1732.6	16.25	17.90	1.462	-	-	0.07	0.138	0.202
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 4	DSI 5	1413	1732.6	16.25	17.90	1.462	-	-	0.15	0.185	0.271
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 4	DSI 5	1413	1732.6	16.25	17.90	1.462	-	-	-0.05	0.268	0.392
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 4	DSI 5	1413	1732.6	16.25	17.90	1.462	-	-	-0.08	0.054	0.079
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 6	DSI 5	1413	1732.6	20.52	21.90	1.374	-	-	-0.13	0.342	0.470
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 6	DSI 5	1413	1732.6	20.52	21.90	1.374	-	-	0.01	0.470	0.646
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Side	10mm	Ant 6	DSI 5	1413	1732.6	20.52	21.90	1.374	-	-	-0.11	0.263	0.361
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 6	DSI 5	1413	1732.6	20.52	21.90	1.374	-	-	0.03	0.048	0.066
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 6	DSI 5	1413	1732.6	20.52	21.90	1.374	-	-	-0.05	0.660	0.907
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 6	DSI 5	1312	1712.4	20.44	21.90	1.400	-	-	0.14	0.687	0.962
49	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 6	DSI 5	1513	1752.6	20.44	21.90	1.400	-	-	-0.05	0.701	**0.981**
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	10mm	Ant 7	DSI 5	1413	1732.6	19.58	21.00	1.387	-	-	0.07	0.256	0.355
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	10mm	Ant 7	DSI 5	1413	1732.6	19.58	21.00	1.387	-	-	0.09	0.339	0.470
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Right Side	10mm	Ant 7	DSI 5	1413	1732.6	19.58	21.00	1.387	-	-	-0.04	0.539	0.747
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Top Side	10mm	Ant 7	DSI 5	1413	1732.6	19.58	21.00	1.387	-	-	0.11	0.010	0.014
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI 5	20175	1732.5	19.39	20.20	1.205	-	-	-0.05	0.122	0.147
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 5	DSI 5	20175	1732.5	19.38	20.20	1.208	-	-	-0.08	0.133	0.161
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 5	DSI 5	20175	1732.5	19.39	20.20	1.205	-	-	-0.08	0.186	0.224
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 5	DSI 5	20175	1732.5	19.38	20.20	1.208	-	-	-0.13	0.201	0.243
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 5	DSI 5	20175	1732.5	19.39	20.20	1.205	-	-	0.01	0.113	0.136
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 5	DSI 5	20175	1732.5	19.38	20.20	1.208	-	-	-0.11	0.121	0.146
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 5	DSI 5	20175	1732.5	19.39	20.20	1.205	-	-	0.03	0.310	0.374
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI 5	20175	1732.5	19.38	20.20	1.208	-	-	0.02	0.322	0.389
	LTE Band 4_Other PA	20M	QPSK	50	0	-	Top Side	10mm	Ant 5	DSI 5	20175	1732.5	16.83	17.70	1.222	-	-	-0.07	0.193	0.236
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 4	DSI 5	20175	1732.5	17.15	18.60	1.396	-	-	0.12	0.148	0.207
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 4	DSI 5	20175	1732.5	17.13	18.60	1.403	-	-	-0.11	0.150	0.210
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 4	DSI 5	20175	1732.5	17.15	18.60	1.396	-	-	0.17	0.176	0.246
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 4	DSI 5	20175	1732.5	17.13	18.60	1.403	-	-	-0.16	0.182	0.255
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 4	DSI 5	20175	1732.5	17.15	18.60	1.396	-	-	-0.17	0.310	0.433
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI 5	20175	1732.5	17.13	18.60	1.403	-	-	0.11	0.311	0.436
	LTE Band 4	20M	QPSK	1	0	-	Top Side	10mm	Ant 4	DSI 5	20175	1732.5	17.15	18.60	1.396	-	-	-0.05	0.062	0.087
	LTE Band 4	20M	QPSK	50	0	-	Top Side	10mm	Ant 4	DSI 5	20175	1732.5	17.13	18.60	1.403	-	-	-0.01	0.061	0.086
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Left Side	10mm	Ant 4	DSI 5	20175	1732.5	14.77	15.90	1.297	-	-	-0.14	0.186	0.241
	LTE Band 4	20M	QPSK	1	0	-	Front	10mm	Ant 6	DSI 5	20175	1732.5	20.41	21.20	1.199	-	-	-0.12	0.319	0.383
	LTE Band 4	20M	QPSK	50	0	-	Front	10mm	Ant 6	DSI 5	20175	1732.5	20.35	21.20	1.216	-	-	-0.17	0.308	0.375
	LTE Band 4	20M	QPSK	1	0	-	Back	10mm	Ant 6	DSI 5	20175	1732.5	20.41	21.20	1.199	-	-	0.08	0.410	0.492
	LTE Band 4	20M	QPSK	50	0	-	Back	10mm	Ant 6	DSI 5	20175	1732.5	20.35	21.20	1.216	-	-	0.01	0.430	0.523
	LTE Band 4	20M	QPSK	1	0	-	Left Side	10mm	Ant 6	DSI 5	20175	1732.5	20.41	21.20	1.199	-	-	0.02	0.209	0.251
	LTE Band 4	20M	QPSK	50	0	-	Left Side	10mm	Ant 6	DSI 5	20175	1732.5	20.35	21.20	1.216	-	-	-0.11	0.220	0.268
	LTE Band 4	20M	QPSK	1	0	-	Right Side	10mm	Ant 6	DSI 5	20175	1732.5	20.41	21.20	1.199	-	-	-0.01	0.053	0.064
	LTE Band 4	20M	QPSK	50	0	-	Right Side	10mm	Ant 6	DSI 5	20175	1732.5	20.35	21.20	1.216	-	-	0.09	0.054	0.066
	LTE Band 4	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 6	DSI 5	20175	1732.5	20.41	21.20	1.199	-	-	0.1	0.676	0.811
50	LTE Band 4	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 6	DSI 5	20175	1732.5	20.35	21.20	1.216	-	-	-0.04	0.678	**0.825**
	LTE Band 4	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 6	DSI 5	20175	1732.5	20.29	21.20	1.233	-	-	0.05	0.645	0.795
	LTE Band 4_Main PA	20M	QPSK	50	0	-	Bottom Side	10mm	Ant 6	DSI 5	20175	1732.5	18.03	19.40	1.371	-	-	0.15	0.422	0.579