

FCC SAR Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2605-3
FCC ID : IHDT56AW7
STANDARD : FCC 47 CFR Part 2 (2.1093)

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

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



Approved by: Si Zhang



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5O2822-02	Rev. 01	Initial issue of report.	Dec. 25, 2025

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC, Mobile Cellular Phone, XT2605-3**, are as follows.

Highest 1g SAR Summary						
Equipment Class	Frequency Band		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)
			1g SAR (W/kg)			
Licensed	GSM	GSM850	0.89	1.29	1.29	1.59
		GSM1900	0.87	0.73	0.90	
	WCDMA	WCDMA II	0.88	1.29	1.29	
		WCDMA IV	0.88	1.27	1.27	
		WCDMA V	0.89	1.19	1.19	
	LTE	LTE Band 2	0.89	1.28	1.30	
		LTE Band 7	0.88	1.29	1.28	
		LTE Band 12/17	0.78	0.62	0.88	
		LTE Band 13	0.89	1.00	0.89	
		LTE Band 26/5	0.76	1.29	1.29	
		LTE Band 41/38	0.90	1.29	1.28	
		LTE Band 66/4	0.89	1.28	1.27	
		LTE Band 42	0.88	0.62	0.90	
	5G NR	FR1 n2	0.86	1.27	1.29	
		FR1 n7	0.88	1.29	1.28	
		FR1 n41/n38	0.88	1.27	1.29	
		FR1 n66	0.88	1.27	1.14	
		FR1 n77/n78	0.89	1.14	0.89	
DTS	WLAN	2.4GHz WLAN	1.36	0.65	1.09	1.59
NII		5GHz WLAN	1.19	0.62	1.20	1.59
6XD		6GHz WLAN	0.89		0.69	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.40	0.27	0.39	1.59
Highest 10g SAR Summary						
Equipment Class	Frequency Band		Product Specific 10g SAR (W/kg) (Separation 0mm)		Highest Simultaneous Transmission 10g SAR (W/kg)	
Licensed	GSM	GSM850	1.48		3.93	
		GSM1900	1.89			
	WCDMA	WCDMA II	2.56			
		WCDMA IV	3.02			
		WCDMA V	1.78			
	LTE	LTE Band 2	3.22			
		LTE Band 7	3.06			
		LTE Band 13	2.51			
		LTE Band 26/5	2.02			
		LTE Band 41/38	3.23			
		LTE Band 66/4	2.89			
		LTE Band 42	2.51			
	5G NR	FR1 n2	2.47			
		FR1 n7	3.15			
		FR1 n41/n38	3.44			
		FR1 n66	2.48			

		FR1 n77/n78	2.48		
DTS	WLAN	2.4GHz WLAN	0.42		3.93
NII		5GHz WLAN	1.44		3.93
6XD		6GHz WLAN	0.46		3.93
Equipment Class	Frequency Band	Measured APD			Reported PD
		Head (W/m^2)	Body Worn (W/m^2)	Phablet (W/m^2)	psPD (W/m^2)
6XD	6GHz WLAN	4.01	3.21	7.61	7.65
Date of Testing:		2025/11/20 ~ 2025/12/5			

Remark:

1. This device supports LTE B4 / B5 / B17 / B38 and B66 / B26 / B12 / B41/ B48. Since the supported frequency span for LTE B4 / B5 / B17 / B38 falls completely within the support's frequency span for LTE B66 / B26 / B12 / B41/ B48, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66 / B26 / B12 / B41/ B48.
2. This device supports 5GNR n38/ n78 and n41 /n77. Since the supported frequency span for 5GNR n38 / n78 falls completely within the support's frequency span for n41 /n77, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41/ n77.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093), and Human Exposure to RF Radiation Limits (1.0 mW/cm²=10 W/m²) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

2. Administration Data

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR02-KS SAR05-KS	CN1257	314309

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

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

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- 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 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
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- IEC TR 63170:2018
- IEC 62479:2010
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2605-3
FCC ID	IHDT56AW7
IMEI Code	Sample 1: 356194350011459/356194350011467, 356194350011939/356194350011947 356194350014172/356194350014180 Sample 2: 351275920003210, 351275920003152 Sample 3: 356194350019015/356194350019023, 356194350019619/356194350019627
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 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 66: 1710 MHz ~ 1780 MHz 5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 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 U-NII 5: 5925 MHz ~ 6425 MHz WLAN U-NII 6: 6425 MHz ~ 6525 MHz WLAN U-NII 7: 6525 MHz ~ 6875 MHz WLAN U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA/HSUPA DC-HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40

	WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 WLAN 6GHz 802.11a/ax HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC: ASK
HW Version	DVT2
SW Version	W2WE36.39
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:	
- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation. - This device WLAN 2.4GHz support hotspot operation and Bluetooth support tethering applications. - This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only). WLAN 6GHz has no hotspot function. - This device supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). - This device does not support DTM operation and support GRPS/EGPRS mode up to multi-slot class 12. - The 5GHz/6GHz WLAN can transmit in SISO mode only. - The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E. - For WLAN when transmit simultaneous with WWAN, power reduction will be activated to head exposure condition. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and extremity exposure conditions. - This device implements antenna tuning techniques for several WWAN (cellular) operating modes and frequencies for the purpose of improving antenna efficiency over a broad range of frequencies. Specifically, these techniques are employed in the LTE and 5GNR modes. In this report SAR was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing. The detail descriptions of the antenna tuner and supplemental data for additional information on section18 and appendix G. - For 5G NR test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing. - There are three samples, the different between them refer to the XT2605-3_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, so sample 1 was chosen to perform full SAR testing and sample 2/3 verified the worst case of sample 1. - This device has NFC function and the NFC SAR report will be separately submitted. - 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)
SA	n2	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
	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
NSA	n2	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	n66	FDD	15	5, 10, 15, 20, 25, 30, 35, 40
	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
	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			IHDT56AW7									
Equipment Name			Mobile Cellular 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 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 66: 1710 MHz ~ 1780 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 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 66:1.4MHz, 3MHz, 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})						MPR (dB)		
				1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz			
			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 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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)					
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					
LTE Band 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 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)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5	26765	821.5
M	26865	831.5	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	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580	37850	2580	37850	2580
M	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595	38000	2595
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610	38150	2610	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)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506	39750	2506	39750	2506
LM	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5	40185	2549.5	40185	2549.5
M	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593	40620	2593
HM	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5	41055	2636.5	41055	2636.5
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680	41490	2680	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

<For LTE Overlap Bands Description>

1) LTE Bands BW

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

2) LTE Bands tune up:

FCC SAR-Power Table							
Band	Antenna	Head DSI2	Bodyworn DSI3	Hotspot DSI7	Extremity DSI6	Sensor off DSI4	Default Tune-up Limit
LTE Band 12	Ant0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 17	Ant0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 12	Ant1	24.0	23.2	20.8	24.0	24.0	24.0
LTE Band 17	Ant1	24.0	23.2	20.8	24.0	24.0	24.0
LTE Band 5	Ant0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 26	Ant0	24.0	24.0	24.0	24.0	24.0	24.0
LTE Band 5	Ant1	24.0	22.0	19.7	24.0	24.0	24.0
LTE Band 26	Ant1	24.0	22.0	19.7	24.0	24.0	24.0
LTE Band 4	Ant1	18.4	18.0	16.3	21.5	24.0	24.0
LTE Band 66	Ant1	18.4	18.0	16.3	21.5	24.0	24.0
LTE Band 4	Ant2	24.0	23.0	21.9	24.0	24.0	24.0
LTE Band 66	Ant2	24.0	23.0	21.9	24.0	24.0	24.0
LTE Band 38	Ant0	24.0	21.7	21.7	23.7	24.0	24.0
LTE Band 41	Ant0	24.0	21.7	21.7	23.7	24.0	24.0
LTE Band 38	Ant1	18.1	18.5	16.7	23.0	24.0	24.0
LTE Band 41	Ant1	18.1	18.5	16.7	23.0	24.0	24.0
LTE Band 38	Ant2	24.0	24.0	23.8	24.0	24.0	24.0
LTE Band 41	Ant2	24.0	24.0	23.8	24.0	24.0	24.0
LTE Band 38	Ant9	23.4	21.2	15.7	21.5	21.5	24.0
LTE Band 41	Ant9	23.4	21.2	15.7	21.5	21.5	24.0

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

4.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information	
Operating Frequency Range of each 5G NR transmission band	5G NR n2: 1850 MHz ~ 1910 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Channel Bandwidth	The detail please refers to section 4.1 5G NR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR Testing?	Yes
LTE Anchor Bands for n2	LTE B4/12/66
LTE Anchor Bands for n7	LTE B2/4/5/66
LTE Anchor Bands for n38	LTE B2/4/5/66
LTE Anchor Bands for n41	LTE B2/4/5/66
LTE Anchor Bands for n66	LTE B2/7/12
LTE Anchor Bands for n78	LTE B2/4/5/7/12/38/66

Transmission (H, M, L) channel numbers and frequencies in each 5G NR band									
NR Band 2									
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500
M	376000	1880	376000	1880	376000	1880	376000	1880	376000
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379500

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

NR Band 38												
	Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
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	520000	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	500202	2501.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	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	533496	2667.48	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

NR Band 77																					
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)
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
656000	3840	656000	3840	656000	3840.00	656000	3840.00	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930



NR Band 78																							
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)
L647000	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		
M650000	3750	650000	3750	650000	3750	650000	3750.00	650000	3750.00	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750
H653000	3795	652832	3792.48	652666	3789.99	652500	3787.5	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		

<For NR Overlap Bands Description>

1) NR Bands BW

Band	Duplex	SCS(KHz)	Bandwidths(BW)
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

2) NR Bands Tune up:

FCC SAR-Power Table							
Band	Antenna	Head	Bodyworn	Hotspot	Extremity	Sensor off	Default
		DSI2	DSI3	DSI7	DSI6	DSI4	Tune-up Limit
FR1 n38 PC3	Ant0	21.5	19.8	20.5	21.5	21.5	21.5
FR1 n41 PC3	Ant0	21.5	21.0	21.5	21.5	21.5	21.5
FR1 n38 PC3	Ant2	24.0	23.4	22.0	22.7	24.0	24.0
FR1 n41 PC3	Ant2	24.0	23.1	22.0	24.0	24.0	24.0
FR1 n38 PC3	Ant1	16.7	18.0	16.4	21.3	22.5	22.5
FR1 n41 PC3	Ant1	16.7	18.0	16.4	21.3	22.5	22.5
FR1 n38 PC3	Ant9	20.9	19.2	13.4	21.2	21.2	24.0
FR1 n41 PC3	Ant9	20.9	19.2	13.4	21.2	21.2	24.0
FR1 n77 PC3	Ant4	16.5	19.8	14.3	18.7	22.5	22.5
FR1 n78 PC3	Ant4	16.5	19.8	14.3	18.7	22.5	22.5
FR1 n77 PC3	Ant5	17.5	18.4	16.0	23.0	23.0	23.0
FR1 n78 PC3	Ant5	17.5	18.4	16.0	23.0	23.0	23.0
FR1 n77 PC3	Ant7	20.2	20.2	19.2	22.6	24.0	24.0
FR1 n78 PC3	Ant7	20.2	20.2	19.2	22.6	24.0	24.0
FR1 n77 PC3	Ant8	24.0	24.0	24.0	24.0	24.0	24.0
FR1 n78 PC3	Ant8	24.0	24.0	24.0	24.0	24.0	24.0

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

5. Smart Transmit feature for RF Exposure compliance

Qualcomm® Smart Transmit™ 3.0 of Smart Transmit (GEN2) Feature operates based on pre-defined sub6 antenna groups (AG). This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with 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.

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

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) version 20 to enable the Smart Transmit GEN2 Feature.

<Terminologies in this report>

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

<SAR Characterization>

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

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

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

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

Antenna Group:

Antenna Group 0 (AG0)	ANT0 & ANT2 & ANT8
Antenna Group 1 (AG1)	ANT1 & ANT4 & ANT5 & ANT7 & ANT9



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

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

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

Band	Antenna	Head DSI2	Body worn DSI3	Hotspot DSI7	Extremity DSI6	Sensor off DSI4	Pmax*
GSM850	Ant0	33.7	24.2	24.2	28.1	31.2	24.7
GSM850	Ant1	21.2	20.3	18.5	24.7	31.5	24.7
GSM1900	Ant1	16.3	15.7	14.9	20.9	23.9	19.7
GSM1900	Ant2	34.3	24.2	24.2	21.7	24.1	21.7
WCDMA II	Ant1	14.8	15.8	14.0	20.5	24.1	23.0
WCDMA II	Ant2	31.9	22.5	22.5	24.0	27.5	23.0
WCDMA IV	Ant1	17.4	16.5	14.9	21.0	26.1	23.0
WCDMA IV	Ant2	31.6	21.6	21.1	23.2	27.2	23.0
WCDMA V	Ant0	31.0	23.3	23.3	25.5	29.4	23.0
WCDMA V	Ant1	22.8	20.1	18.5	24.9	29.2	23.0
LTE Band 2	Ant0	32.6	17.5	17.3	20.5	24.1	22.0
LTE Band 2	Ant1	16.6	16.1	14.5	21.0	23.7	23.0
LTE Band 2	Ant2	32.7	22.7	21.7	26.4	28.1	23.0
LTE Band 2	Ant9	23.5	19.9	15.6	20.1	20.1	23.0
LTE Band 7	Ant0	34.7	20.0	20.0	21.0	28.9	23.0
LTE Band 7	Ant1	15.5	15.5	13.7	19.9	24.3	23.0
LTE Band 7	Ant2	30.4	22.1	21.1	23.2	29.4	23.0
LTE Band 7	Ant9	20.5	17.4	11.9	18.0	18.0	23.0
LTE Band 12(17)	Ant0	34.6	26.8	26.8	23.0	23.0	23.0
LTE Band 12(17)	Ant1	23.5	22.2	19.8	23.0	31.8	23.0
LTE Band 13	Ant0	31.1	24.7	24.1	23.0	23.0	23.0
LTE Band 13	Ant1	22.7	20.1	18.4	23.0	29.6	23.0
LTE Band 26(5)	Ant0	32.3	23.0	23.0	23.0	23.0	23.0
LTE Band 26(5)	Ant1	23.7	21.0	18.7	23.9	30.2	23.0
LTE Band 66(4)	Ant1	17.4	17.0	15.3	21.0	23.7	23.0
LTE Band 66(4)	Ant2	32.4	22.0	20.9	23.4	27.6	23.0
LTE Band 41(38)	Ant0	33.0	18.7	18.7	20.7	27.9	21.0
LTE Band 41(38)	Ant1	15.1	15.5	13.7	20.0	24.8	21.0
LTE Band 41(38)	Ant2	31.2	21.1	20.8	22.1	28.1	21.0
LTE Band 41(38)	Ant9	20.4	18.2	12.7	18.5	18.5	21.0
LTE Band 42	Ant4	18.2	17.5	15.1	18.0	30.4	18.0
LTE Band 42	Ant7	16.1	16.9	15.1	20.5	23.2	21.0
FR1 n2	Ant1	17.3	16.6	14.7	20.3	25.2	23.0
FR1 n2	Ant2	34.0	22.5	22.7	23.0	29.3	23.0
FR1 n7	Ant1	15.7	16.6	14.5	21.7	25.5	23.0
FR1 n7	Ant2	30.3	22.3	21.8	23.0	29.9	23.0
FR1 n66	Ant1	19.1	18.5	16.4	21.3	26.8	23.0
FR1 n66	Ant2	32.4	23.5	22.4	23.0	23.0	23.0
FR1 n38	Ant0	31.9	18.8	19.5	20.5	20.5	20.5
FR1 n38	Ant2	30.5	22.4	21.0	21.7	23.0	23.0
FR1 n41	Ant0	31.9	20.0	20.6	20.5	28.9	20.5
FR1 n41(38)	Ant1	15.7	17.0	15.4	20.3	26.0	21.5
FR1 n41	Ant2	30.5	22.1	21.0	23.0	28.5	23.0
FR1 n41(38)	Ant9	19.9	18.2	12.4	20.2	20.2	23.0
FR1 n77(78)	Ant4	15.5	18.8	13.3	17.7	26.9	21.5
FR1 n77(78)	Ant5	16.5	17.4	15.0	22.0	26.7	22.0
FR1 n77(78)	Ant7	19.2	19.2	17.6	21.5	24.7	23.0

FR1 n77(78)	Ant8	31.7	26.3	22.9	23.0	23.0	23.0
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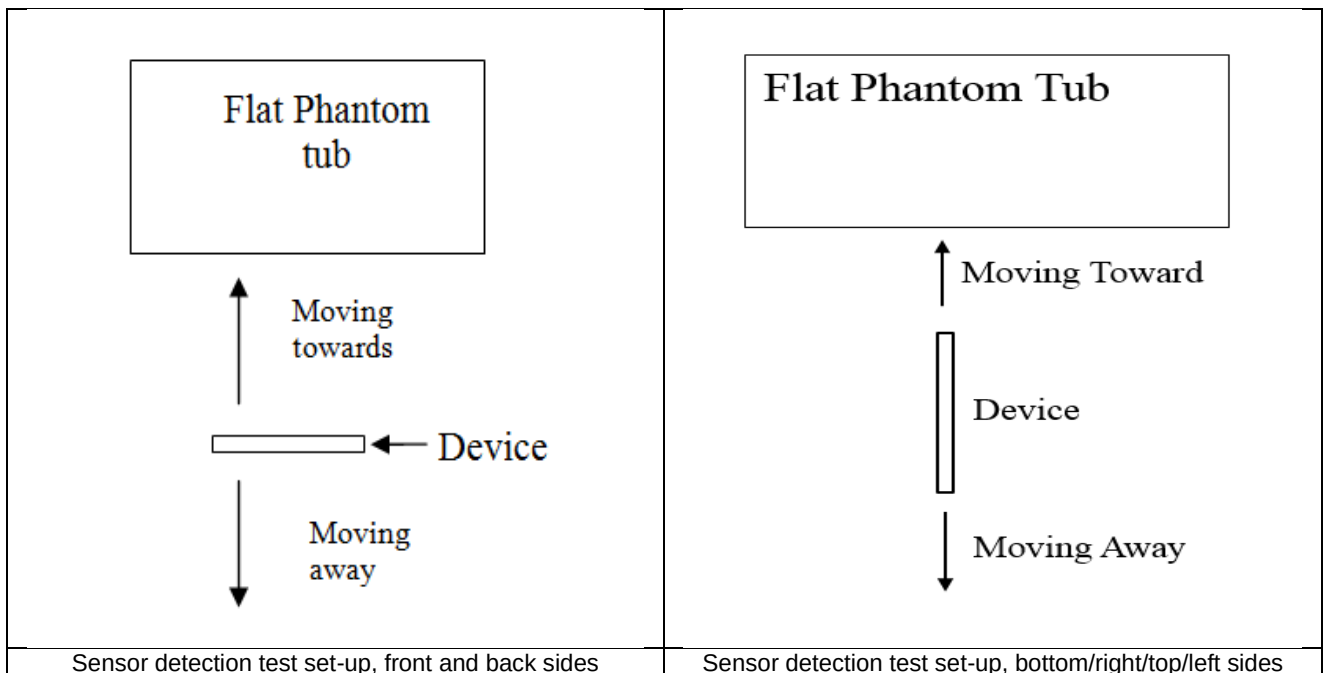
Note:

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

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (7125MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
3. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
4. The sensors can use to detect the proximity of the user's body or handheld states at the front or back or top or right or left side of the device use a detection threshold distance. When front/back/top/right/left sides of body or handheld condition is detected reduced power will be active. The trigger distance shown in the sections below.
5. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed.



<P-Sensor>

Proximity Sensor Triggering Distance (mm)				
Position	Front		Back	
	Moving towards	Moving away	Moving towards	Moving away
Minimum	15	19	15	21

<Handheld for ANT 0>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	14	12	19	9	15	10	16

<Handheld for ANT 2>

Proximity Sensor Triggering Distance (mm)						
Position	Front		Back		Bottom Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	6	11	6	11	11	16

<Handheld for ANT 1&7>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Left Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	13	11	16	9	15	10	16

<Handheld for ANT 3&4&5&6>

Proximity Sensor Triggering Distance (mm)								
Position	Front		Back		Right Side		Top Side	
	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	8	14	9	13	9	14	10	15

7. RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310. The unit of power density evaluation is W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a square area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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:

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

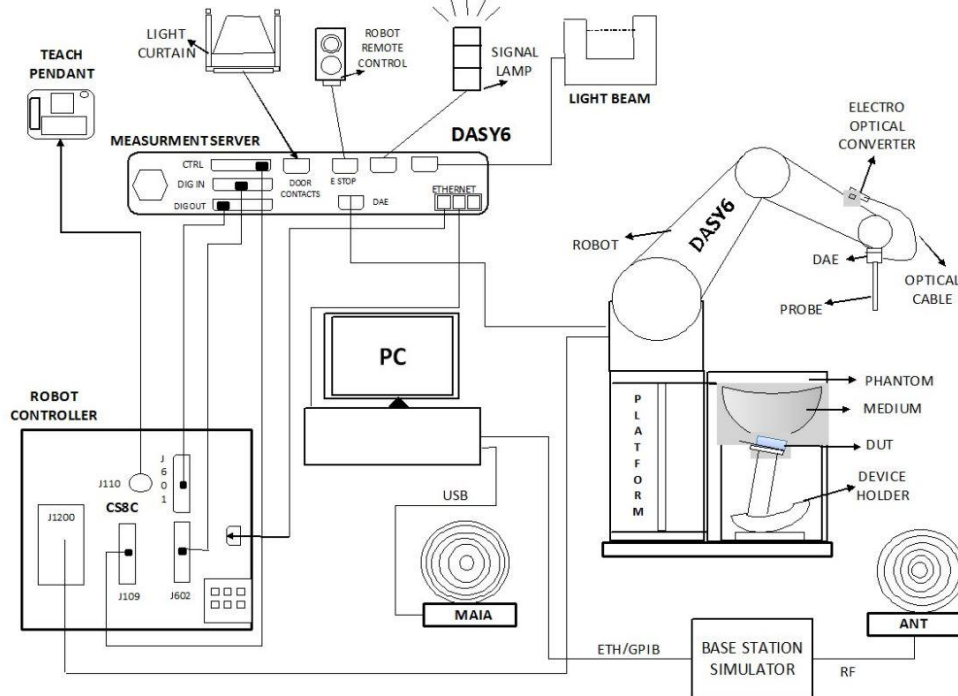
SAR is expressed in units of Watts per kilogram (W/kg)

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

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.

Note: 1. DASY6 software used: DASY6 mmWave V3.2.0.1840 and older generations and used the developed Plane-to-Plane Phase Reconstruction (PTP-PR) Algorithm which was used in PD 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 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/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 from 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 dB) 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	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 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 $\leq$ 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 to 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 whose 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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 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: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> 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 to 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	Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1087	Mar. 12, 2025	Mar. 11, 2026
SPEAG	835MHz System Validation Kit	D835V2	4d298	Jan. 26, 2024	Jan. 24, 2026
SPEAG	1750MHz System Validation Kit	D1750V2	1090	Mar. 12, 2025	Mar. 11, 2026
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	Mar. 13, 2025	Mar. 12, 2026
SPEAG	2450MHz System Validation Kit	D2450V2	1095	Feb. 08, 2024	Feb. 06, 2026
SPEAG	2600MHz System Validation Kit	D2600V2	1112	Dec. 18, 2023	Dec. 16, 2025
SPEAG	3500MHz System Validation Kit	D3500V2	1037	Nov. 20, 2023	Nov. 17, 2026
SPEAG	3700MHz System Validation Kit	D3700V2	1008	Nov. 20, 2023	Nov. 17, 2026
SPEAG	3900MHz System Validation Kit	D3900V2	1048	Mar. 09, 2023	Mar. 06, 2026
SPEAG	5000MHz System Validation Kit	D5GHzV2	1113	Sep. 17, 2025	Sep. 16, 2026
SPEAG	6500MHz System Validation Kit	D6.5GHzV2	1026	Jan. 28, 2025	Jan. 27, 2026
SPEAG	5G Verification Source	10GHz	2002	Feb. 20, 2025	Feb. 19, 2026
SPEAG	Data Acquisition Electronics	DAE4	1338	Mar. 18, 2025	Mar. 17, 2026
SPEAG	Data Acquisition Electronics	DAE4	1649	Aug. 27, 2025	Aug. 26, 2026
SPEAG	Data Acquisition Electronics	DAE4	1691	Jun. 04, 2025	Jun. 03, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	3857	Feb. 19, 2025	Feb. 18, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7774	Jul. 25, 2025	Jul. 24, 2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	7764	Oct. 22, 2025	Oct. 21, 2026
SPEAG	EUmmWV Probe Tip Protection	EUmmWV4	9441	Nov. 17, 2025	Nov. 16, 2026
SPEAG	mmWave Phantom	mmWave	1065	NCR	NCR
SPEAG	SAM Twin Phantom	SAM Twin	TP-1842	None	None
SPEAG	SAM Twin Phantom	SAM Twin	TP-2021	None	None
SPEAG	SAM Twin Phantom	SAM Twin	TP-2022	NCR	NCR
Beichuang	Thermo-Hygrometer	HTC-1	1949250	Jan. 11, 2025	Jan. 10, 2026
Beichuang	Thermo-Hygrometer	HTC-1	1959634	May. 27, 2025	May. 26, 2026
Beichuang	Thermo-Hygrometer	HTC-1	1959632	May. 27, 2025	May. 26, 2026
Testo	Thermo-Hygrometer	HTC-1	55011	Jan. 02, 2025	Jan. 01, 2026
SPEAG	Phone Positioner	N/A	N/A	None	None
Rohde & Schwarz	Signal Generator	SMB100A	100455	Jan. 02, 2025	Jan. 01, 2026
Keysight	Preamplifier	83017A	MY57280106	Apr. 18, 2025	Apr. 17, 2026
Anritsu	Radio Communication Analyzer	MT8820C	6201563900	Jul. 02, 2025	Jul. 01, 2026
Agilent	ENA Series Network Analyzer	E5071C	MY46112129	Jul. 02, 2025	Jul. 01, 2026
SPEAG	Dielectric Probe Kit	DAK-3.5	1071	Feb. 24, 2025	Feb. 23, 2026
Anritsu	Vector Signal Generator	MG3710A	6201682672	Jan. 03, 2025	Jan. 02, 2026
Rohde & Schwarz	Power Meter	NRVD	102081	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	Jul. 02, 2025	Jul. 01, 2026
Rohde & Schwarz	Power Sensor	NRP50S	101385	Oct. 14, 2025	Oct. 13, 2026
R&S	BLUETOOTH TESTER	CBT	101246	Jul. 03, 2025	Jul. 02, 2026
Rohde & Schwarz	Spectrum Analyzer	FSV7	101631	Oct. 11, 2025	Oct. 10, 2026
TES	DIGITAC THERMOMETER	TYPE-K	220305411	Jan. 02, 2025	Jan. 01, 2026
ARRA	Power Divider	A3200-2	N/A	Note 1	
mini-circuits	amplifier	ZVE-3W-83+	162601250	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	
ET Industries	Dual Directional Coupler	C-058-10	N/A	Note 1	
ATM	Dual Directional Coupler	C122H-10	P610410z-02	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.

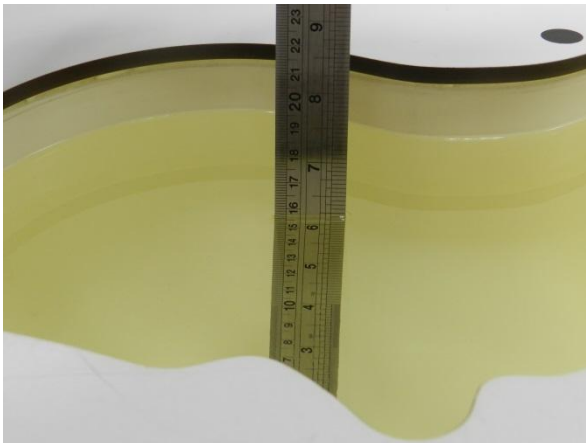


Fig 11.1 Photo of Liquid Height for Head SAR

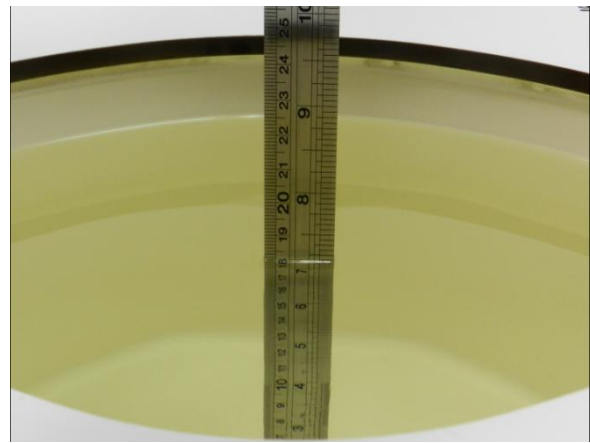


Fig 11.2 Photo of Liquid Height for Body SAR

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 (ϵ_r)
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>

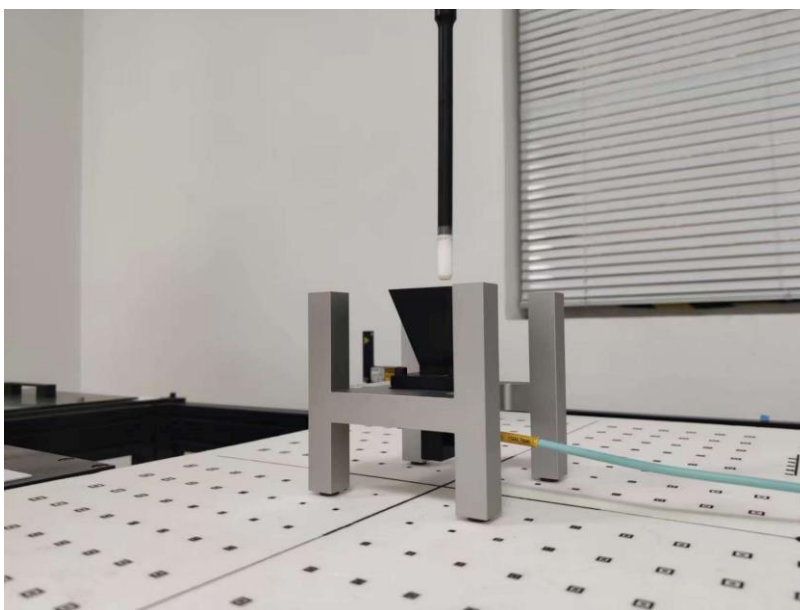
Frequency (MHz)	Liquid Temp (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.6	0.886	42.9	0.89	41.9	-0.45	2.39	±5.0	2025-11-20
750	22.7	0.888	42.971	0.89	41.9	-0.22	2.56	±5.0	2025-11-20
835	22.7	0.913	42.6	0.9	41.5	1.44	2.65	±5.0	2025-11-20
835	22.8	0.917	42.609	0.9	41.5	1.89	2.67	±5.0	2025-11-22
1750	22.7	1.38	40.3	1.37	40.1	0.73	0.50	±5.0	2025-11-21
1750	22.9	1.39	40.152	1.37	40.1	1.46	0.13	±5.0	2025-11-24
1900	22.8	1.47	40.9	1.4	40.0	5.00	2.25	±5.0	2025-11-21
1900	22.6	1.461	40.935	1.4	40.0	4.36	2.34	±5.0	2025-11-26
2450	22.7	1.77	39.2	1.8	39.2	-1.67	0.00	±5.0	2025-11-23
2450	22.6	1.777	39.228	1.8	39.2	-1.28	0.07	±5.0	2025-12-01
2600	22.9	1.92	38.7	1.96	39.0	-2.04	-0.77	±5.0	2025-11-23
2600	22.6	1.904	38.856	1.96	39.0	-2.86	-0.37	±5.0	2025-11-28
3500	22.6	2.95	37.7	2.91	37.9	1.37	-0.53	±5.0	2025-11-24
3500	22.6	2.978	37.671	2.91	37.9	2.34	-0.60	±5.0	2025-11-30
3700	22.7	3.16	37.6	3.12	37.7	1.28	-0.27	±5.0	2025-11-24
3700	22.8	3.174	37.59	3.12	37.7	1.73	-0.29	±5.0	2025-12-01
3900	22.6	3.37	37.3	3.33	37.51	1.20	-0.56	±5.0	2025-11-24
3900	22.8	3.397	37.294	3.33	37.51	2.01	-0.58	±5.0	2025-12-02
5250	22.8	4.65	36.2	4.71	35.95	-1.27	0.70	±5.0	2025-11-27
5250	22.7	4.668	36.187	4.71	35.95	-0.89	0.66	±5.0	2025-12-03
5600	22.6	5.02	36.0	5.07	35.5	-0.99	1.41	±5.0	2025-11-28
5600	22.7	4.996	35.931	5.07	35.5	-1.46	1.21	±5.0	2025-12-04
5800	22.7	5.25	35.7	5.27	35.3	-0.38	1.13	±5.0	2025-11-29
5800	22.8	5.262	35.539	5.27	35.3	-0.15	0.68	±5.0	2025-12-05
6500	22.7	6.16	34.6	6.07	34.50	1.48	0.29	±5	2025-12-01

12.4 PD System Verification Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (GHz)	5G Verification Source	Probe S/N	DAE S/N	Distance (mm)	Input power (mW)	Measured psPDn+ 4 cm ² (W/m ²)	Normalized 4 cm ² (W/m ²)	Targeted psPDn+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDtot+ 4 cm ² (W/m ²)	Normalized 4 cm ² (W/m ²)	Targeted psPDtot+ 4 cm ² (W/m ²)	Deviation (dB)	Measured psPDmod+ 4 cm ² (W/m ²)	Normalized 4 cm ² (W/m ²)	Targeted psPDmod+ 4 cm ² (W/m ²)	Deviation (dB)	Test date
10	10GHz_2002	9441	1338	10	100	95	150.5	166	-0.43	96.2	152.4	167	-0.40	97.6	154.6	172	-0.46	2025/12/4

Note: (1) means the measured PD was normalized to Prad power which can be referred to DASY Calibration Certificate in appendix C.



System Verification 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.

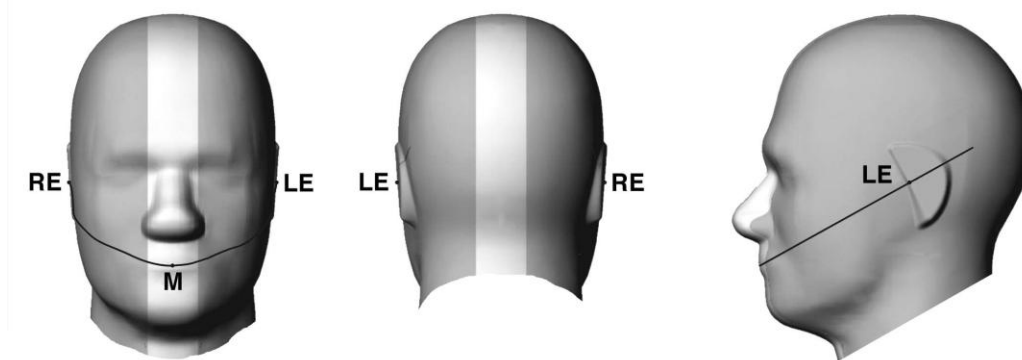


Fig 12.1.1 Front, back, and side views of SAM twin phantom

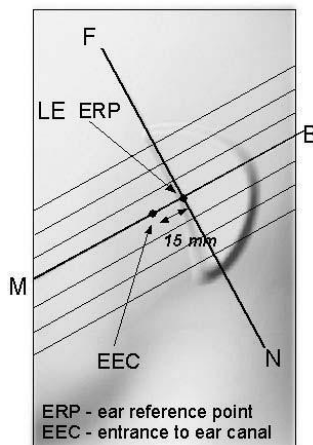


Fig 12.1.2 Close-up side view of phantom showing the ear region.

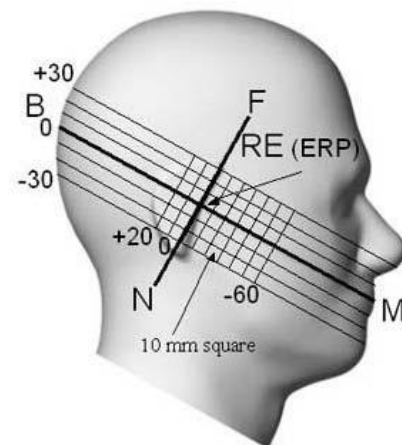


Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 w_t 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 w_b 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.

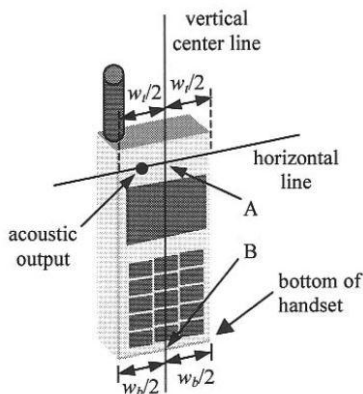


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case"

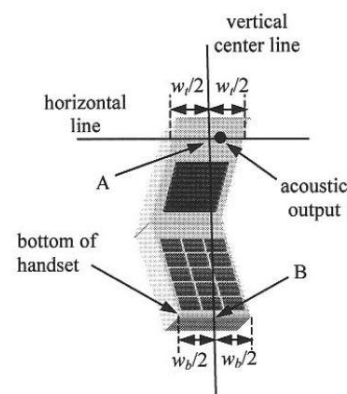


Fig 12.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

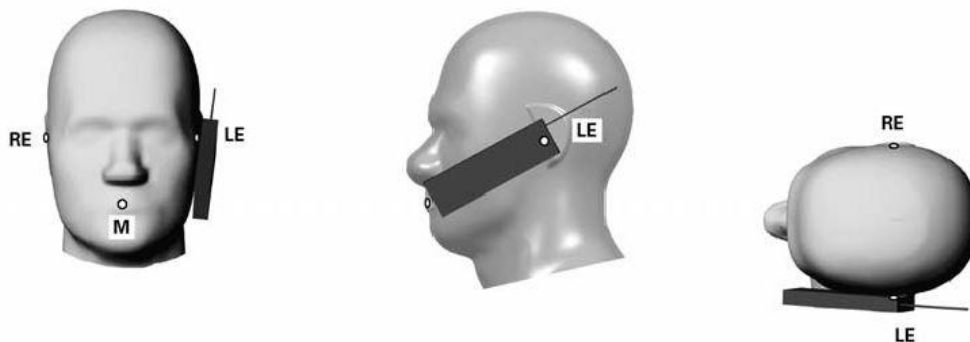


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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

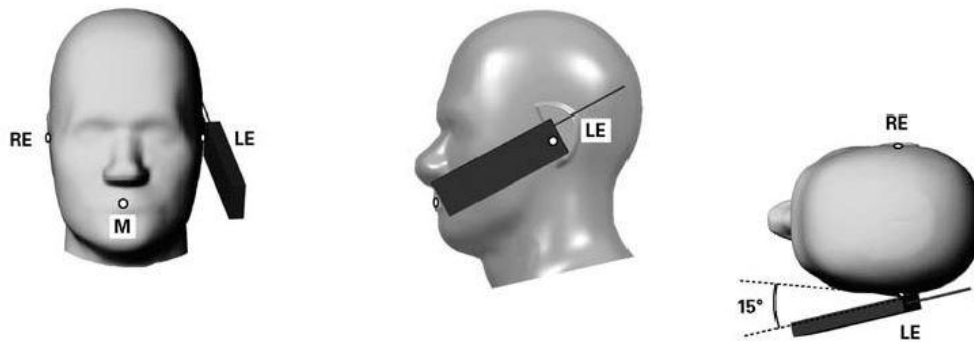


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 $> 1.2 \text{ W/kg}$, 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.

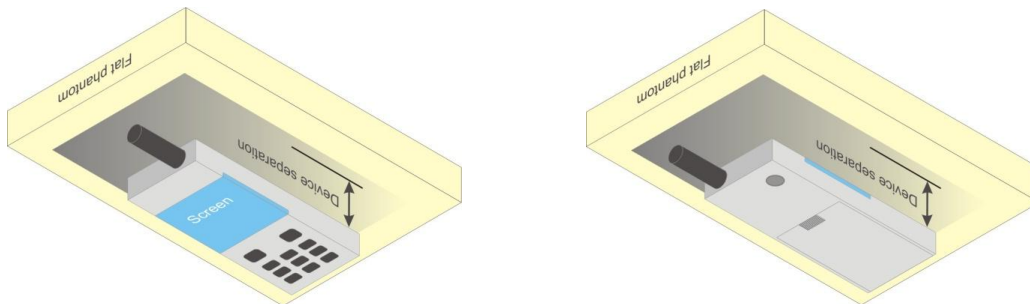


Fig 12.4 Body Worn Position

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 ($L \times W \geq 9$ 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 from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

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

13.7 Miscellaneous Testing Considerations

- Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020.
- Per procedures of KDB Pubs. 447498 and 248227, and applicable product-specific procedures among KDB Pubs. 648474 (handsets/phablets).
- Where supported by the test system, also report estimated absorbed (epithelial) power density (for reference purposes only, not specifically for compliance) and estimated incident PD, derived from measured SAR.
- In addition, for the highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane)
 - Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

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 $\leq 1/4$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, 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 $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

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 $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCCH, 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 $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - 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
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- 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} (Note 1)	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	209/25	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	β_{ed1} : 47/15 β_{ed2} : 47/15	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 $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. 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 $\beta_c = 10/15$ and $\beta_d = 15/15$.

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

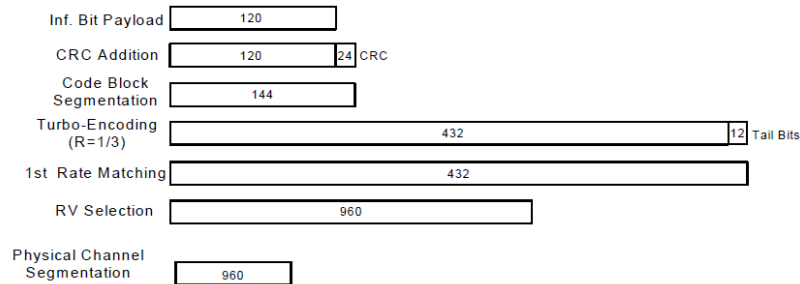


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

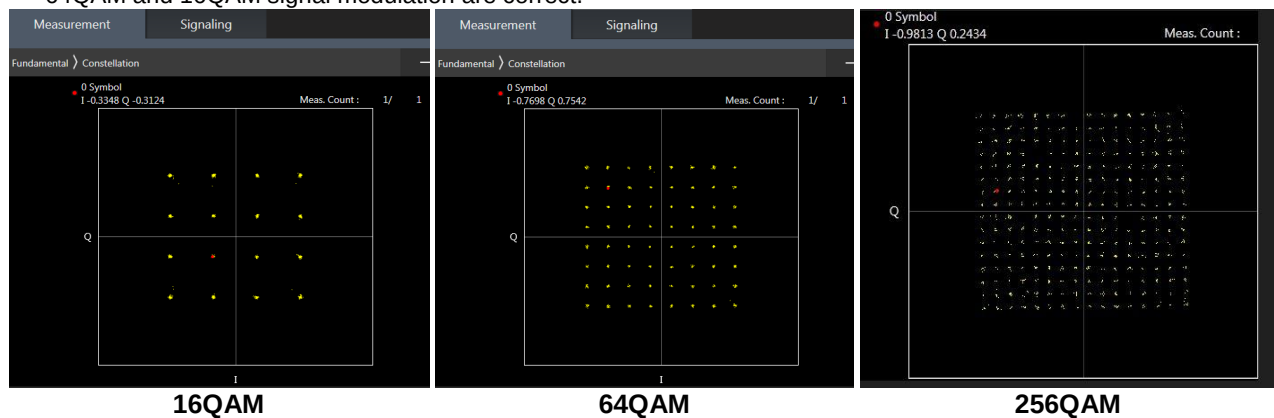
<WCDMA Conducted Power>**General Note:**

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 $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / 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 $\frac{1}{4}$ 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 MT8821C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ 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 $\frac{1}{2}$ 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 B4 / B5 / B17 / B38 SAR test was covered by B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ 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.



<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.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “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
- 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.

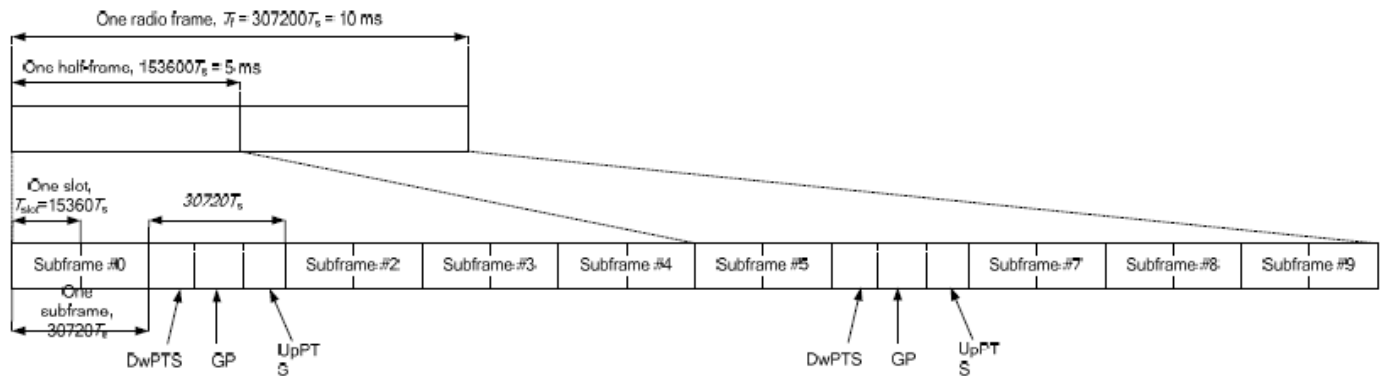


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

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

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

The highest duty factor is resulted from:

For LTE TDD Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:
 $(3+0.143)/5 = 62.9\%$
- 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. Per Oct. 2024 TCB workshop, the downlink (DL) pertains to receiver functionality, thus it is not related to RF exposure compliance limits related to cumulative effects of different transmitters.
2. Per Oct. 2024 TCB workshop, equipment authorization applications shall refer to the worst-case UL powers resulting from all the possible modes of operations. Accordingly, CA-DL cases do not need to be analyzed separately, unless pertinent to establishing UL power setting.
3. 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.
4. This device supports LTE carrier aggregation in the downlink. All 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.

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_2C	ANT2/1/9/0
CA_7C	ANT2/1/9/0
CA_42C	ANT7/4
CA_66C	ANT2/1

<Intra-band>
General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B2/7/42/66 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. 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 with 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 CA Configuration>

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 CA bands to not exceed FCC limit.

LTE Uplink CA	2CC Uplink Carrier Aggregation	
Inter-band	Antenna Tx	Antenna Tx
CA_2A_4A	ANT2/1	ANT1/2
CA_2A_5A	ANT2/1/9/0	ANT1/0
CA_2A_66A	ANT2/1	ANT1/2
CA_2A_7A	ANT1/2/0/9	ANT2/1/9/0
CA_4A_5A	ANT2/1	ANT1/2
CA_4A_7A	ANT2/1	ANT1/2
CA_5A_66A	ANT1/0	ANT2/1
CA_5A_7A	ANT1/0	ANT2/1/9/0
CA_7A_26A	ANT2/1/9/0	ANT1/0

5G NR Output Power (Unit: dBm)

General Note:

1. 5G NR n2/n7/n38/n41/n66/n78 is NSA mode.
2. 5G NR n2/n7/n38/n41/n66/n77/n78 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
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. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
9. For the NR bands, when channel bandwidth of SA and NSA is same, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time. When channel bandwidth of SA and NSA is different, chose the largest channel bandwidth mode among SA and NSA to perform power measurement.
10. For the NR bands, when channel bandwidth of SA and NSA is same, and the maximum power of NSA mode is same as SA total power level, SA SAR can represent NSA mode SAR. For the NR bands, when channel bandwidth of SA and NSA is different, choose the largest channel bandwidth with maximum power to perform SAR testing, so the largest channel bandwidth SAR can represent the smallest channel bandwidth SAR.
11. For NR inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two NR bands. Smart Transmit algorithm controls the total RF exposure base on NR inter band ULCA bands to not exceed FCC limit.

<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	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

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

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

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

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

<EN-DC combination>

ENDC	Main Antenna Tx	
	LTE TX	NR TX
DC_12A_n2A	ANT1/0	ANT2/1
DC_12A_n66A	ANT1/0	ANT2/1
DC_12A_n78A	ANT0/1	ANT7/4/8/5
DC_2A_n38A	ANT1/2/0/9	ANT2/1/9/0
DC_2A_n41A	ANT1/2/0/9	ANT2/1/9/0
DC_2A_n66A	ANT2/1	ANT1/2
DC_2A_n78A	ANT1/2/0/9	ANT7/4/8/5
DC_2A_n7A	ANT1/2	ANT2/1
DC_38A_n78A	ANT1/2/0/9	ANT7/4/8/5
DC_4A_n2A	ANT2/1	ANT1/2
DC_4A_n38A	ANT1	ANT2
DC_4A_n41A	ANT1	ANT2
DC_4A_n78A	ANT1	ANT7
DC_4A_n7A	ANT1/2	ANT2/1
DC_5A_n38A	ANT1/0	ANT2/1/9/0
DC_5A_n41A	ANT1/0	ANT2/1/9/0
DC_5A_n78A	ANT0/1	ANT7/4/8/5
DC_5A_n7A	ANT1/0	ANT2/1
DC_66A_n2A	ANT2/1	ANT1/2
DC_66A_n38A	ANT1	ANT2
DC_66A_n41A	ANT1	ANT2
DC_66A_n78A	ANT1	ANT7
DC_66A_n7A	ANT2/1	ANT1/2
DC_7A_n66A	ANT1/2	ANT2/1
DC_7A_n78A	ANT1/2/0/9	ANT7/4/8/5

<WLAN Conducted Power>

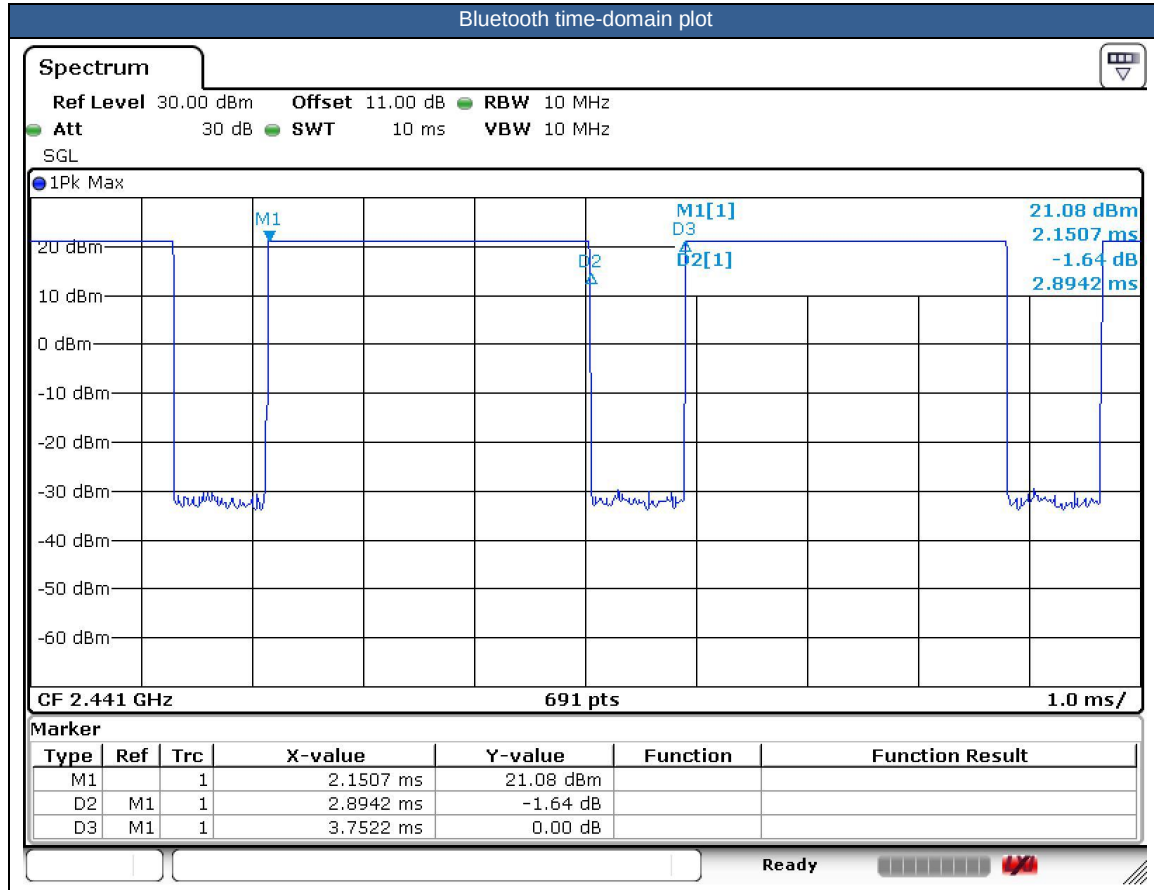
General Note:

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. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. The 5GHz/6GHz WLAN can transmit in SISO mode only.

<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 77.13% as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 100%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.





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/Bluetooth signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
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 ≥ 0.8 W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements the power management, proximity sensor/receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
5. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
6. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/5/7/13/26/38/41/66/42, 5GNR n2/n7/n66/n38/n41/n77/n78 and WLAN 2.4GHz/WLAN 5.2/5.8GHz therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5/6GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is < 1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
9. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot SAR.
10. 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 ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
11. For WLAN 6GHz doesn't support wireless router capability.
12. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
13. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
14. Absorbed power density (APD) using a 4cm^2 averaging area is reported based on SAR measurements.

15. For testing the WLAN 6GHz of this DUT, the selection of test channels was based on FCC guidance, with five channels selected across the entire WLAN 6GHz Bands.

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. Both primary and secondary modes must be in the same frequency band. 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 $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, 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 $\leq \frac{1}{4}$ 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 $\frac{1}{4}$ 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 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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 B4 / B5 / B17 / B38 SAR test was covered by B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ 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 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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/n7/n66/n38/n41/n77 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

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

Power Density General Notes:

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop and KDB 388624 D02v18r08, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
8. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
9. Since this device is considered a phablet and there is no different PD limit on different exposure conditions, therefore select highest phablet SAR at 0 mm test distance and configurations evaluate power density. Since there is no different PD limit on different exposure conditions, therefore the PD test was performed of a 2mm separation between Probe sensor and EUT surface to cover Head exposure conditions (Front) at head power level and other exposure conditions at body power level of Phone respectively
10. The measurement procedure consists of measuring the PD_{inc} at two different distances: 2 mm (compliance distance) and $\lambda/5$. The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPD_n fulfill the criterion described below. Since iPD ratio between the two distances is ≥ -1 dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$

DSI status description:

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

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

Exposure Condition	DSI	Trigger Conditions
Head SAR	DSI 2	Earpiece On
Body worn SAR	DSI 3	Sensor On
Hotspot SAR	DSI 7	Hotspot On
Extremity SAR	DSI 6	Sensor On
Body Worn / Extremity Sensor Off	DSI 4	Sensor Off

16.1 Head SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 0	DSI 2	189	836.4	1	28.84	30.00	1.306	0.09	0.077	0.101
	GSM850	GPRS 3 Tx slots	Right Tilted	0mm	Ant 0	DSI 2	189	836.4	1	28.84	30.00	1.306	0.04	0.001	0.001
	GSM850	GPRS 3 Tx slots	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	1	28.84	30.00	1.306	-0.04	0.125	0.163
	GSM850	GPRS 3 Tx slots	Left Tilted	0mm	Ant 0	DSI 2	189	836.4	1	28.84	30.00	1.306	-0.05	0.071	0.093
	GSM850	GPRS 3 Tx slots	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	2	28.84	30.00	1.306	-0.04	0.121	0.158
	GSM850	GPRS 3 Tx slots	Left Cheek	0mm	Ant 0	DSI 2	189	836.4	3	28.84	30.00	1.306	0.02	0.117	0.153
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	189	836.4	1	25.41	26.50	1.285	0.03	0.647	0.831
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	128	824.2	1	25.10	26.50	1.38	0.05	0.624	0.861
01	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	251	848.8	1	25.21	26.50	1.346	0.03	0.659	0.887
	GSM850	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	189	836.4	1	25.41	26.50	1.285	0.01	0.612	0.786
	GSM850	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI 2	189	836.4	1	25.41	26.50	1.285	0.03	0.365	0.469
	GSM850	GPRS 3 Tx slots	Left Tilted	0mm	Ant 1	DSI 2	189	836.4	1	25.41	26.50	1.285	0.09	0.379	0.487
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	251	848.8	2	25.21	26.50	1.346	-0.03	0.632	0.851
	GSM850	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	251	848.8	3	25.21	26.50	1.346	0.02	0.614	0.826
	GSM1900	GPRS 3 Tx slots	Right Cheek	0mm	Ant 1	DSI 2	661	1880	1	20.86	21.60	1.186	-0.13	0.625	0.741
02	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	661	1880	1	20.86	21.60	1.186	0.12	0.737	0.874
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	512	1850.2	1	20.77	21.60	1.211	-0.06	0.686	0.831
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	810	1909.8	1	20.65	21.60	1.245	0.12	0.635	0.791
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 1	DSI 2	661	1880	1	20.86	21.60	1.186	-0.18	0.228	0.270
	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 1	DSI 2	661	1880	1	20.86	21.60	1.186	0.09	0.286	0.339
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	661	1880	2	20.86	21.60	1.186	-0.01	0.706	0.837
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 1	DSI 2	661	1880	3	20.86	21.60	1.186	0.03	0.671	0.796
	GSM1900	GPRS 3 Tx slots	Right Cheek	0mm	Ant 2	DSI 2	512	1850.2	1	25.73	27.00	1.34	0.05	0.035	0.047
	GSM1900	GPRS 3 Tx slots	Right Tilted	0mm	Ant 2	DSI 2	512	1850.2	1	25.73	27.00	1.34	0.11	0.001	0.001
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 2	DSI 2	512	1850.2	1	25.73	27.00	1.34	0.01	0.053	0.071
	GSM1900	GPRS 3 Tx slots	Left Tilted	0mm	Ant 2	DSI 2	512	1850.2	1	25.73	27.00	1.34	0.09	0.001	0.001
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 2	DSI 2	512	1850.2	2	25.73	27.00	1.34	-0.06	0.049	0.066
	GSM1900	GPRS 3 Tx slots	Left Cheek	0mm	Ant 2	DSI 2	512	1850.2	3	25.73	27.00	1.34	0.01	0.049	0.066

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9400	1880	1	15.17	15.80	1.156	-0.06	0.695	0.803
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9262	1852.4	1	15.05	15.80	1.189	0.08	0.597	0.710
03	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9538	1907.6	1	14.92	15.80	1.225	0.06	0.715	0.876
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	9400	1880	1	15.17	15.80	1.156	-0.07	0.680	0.786
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	9400	1880	1	15.17	15.80	1.156	0.02	0.257	0.297
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	9400	1880	1	15.17	15.80	1.156	0.19	0.296	0.342
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9538	1907.6	2	14.92	15.80	1.225	-0.07	0.447	0.548
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	9538	1907.6	3	14.92	15.80	1.225	0.04	0.507	0.621
	WCDMA II	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 2	9400	1880	1	23.28	24.00	1.18	0.08	0.117	0.138
	WCDMA II	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 2	9400	1880	1	23.28	24.00	1.18	-0.04	0.096	0.113
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	9400	1880	1	23.28	24.00	1.18	-0.02	0.141	0.166
	WCDMA II	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 2	9400	1880	1	23.28	24.00	1.18	0.17	0.093	0.110
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	9400	1880	1	23.28	24.00	1.18	-0.07	0.127	0.150
	WCDMA II	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	9400	1880	1	23.28	24.00	1.18	0.04	0.133	0.157
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1413	1732.6	1	17.77	18.40	1.156	0.02	0.711	0.822
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1312	1712.4	1	17.61	18.40	1.199	-0.04	0.387	0.464
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1513	1752.6	1	17.66	18.40	1.186	-0.08	0.744	0.882
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	1413	1732.6	1	17.77	18.40	1.156	-0.05	0.634	0.733
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	1413	1732.6	1	17.77	18.40	1.156	0.18	0.208	0.240
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	1413	1732.6	1	17.77	18.40	1.156	0.07	0.247	0.286
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1513	1752.6	2	17.66	18.40	1.186	-0.04	0.611	0.725
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	1513	1752.6	3	17.66	18.40	1.186	0.08	0.608	0.721
	WCDMA IV	RMC 12.2Kbps	Right Cheek	0mm	Ant 2	DSI 2	1413	1732.6	1	23.14	24.00	1.219	-0.06	0.098	0.119
	WCDMA IV	RMC 12.2Kbps	Right Tilted	0mm	Ant 2	DSI 2	1413	1732.6	1	23.14	24.00	1.219	0.13	0.065	0.079
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	1413	1732.6	1	23.14	24.00	1.219	-0.07	0.145	0.177
	WCDMA IV	RMC 12.2Kbps	Left Tilted	0mm	Ant 2	DSI 2	1413	1732.6	1	23.14	24.00	1.219	-0.07	0.075	0.091
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	1413	1732.6	2	23.14	24.00	1.219	0.04	0.106	0.129
	WCDMA IV	RMC 12.2Kbps	Left Cheek	0mm	Ant 2	DSI 2	1413	1732.6	3	23.14	24.00	1.219	-0.02	0.118	0.144
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.32	24.00	1.169	-0.15	0.117	0.137
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.32	24.00	1.169	0.15	0.053	0.062
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	1	23.32	24.00	1.169	-0.07	0.172	0.201
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	23.32	24.00	1.169	0.04	0.094	0.110
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	2	23.32	24.00	1.169	-0.07	0.163	0.191



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	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	4182	836.4	3	23.32	24.00	1.169	0.04	0.150	0.175
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	22.71	23.80	1.285	-0.17	0.655	0.842
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4132	826.4	1	22.70	23.80	1.288	-0.02	0.642	0.827
05	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	1	22.67	23.80	1.297	0.02	0.687	0.891
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	22.71	23.80	1.285	-0.01	0.664	0.853
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4132	826.4	1	22.70	23.80	1.288	-0.03	0.652	0.840
	WCDMA V	RMC 12.2Kbps	Right Tilted	0mm	Ant 1	DSI 2	4233	846.6	1	22.67	23.80	1.297	0.05	0.634	0.822
	WCDMA V	RMC 12.2Kbps	Left Cheek	0mm	Ant 1	DSI 2	4182	836.4	1	22.71	23.80	1.285	0.18	0.408	0.524
	WCDMA V	RMC 12.2Kbps	Left Tilted	0mm	Ant 1	DSI 2	4182	836.4	1	22.71	23.80	1.285	-0.15	0.418	0.537
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	2	22.67	23.80	1.297	-0.03	0.635	0.824
	WCDMA V	RMC 12.2Kbps	Right Cheek	0mm	Ant 1	DSI 2	4233	846.6	3	22.67	23.80	1.297	0.07	0.642	0.833

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	1	22.29	23.00	1.178			0.07	0.095	0.112
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	1	21.37	22.00	1.156			-0.06	0.062	0.072
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	18900	1880	1	22.29	23.00	1.178			0.09	0.063	0.074
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 2	18900	1880	1	21.37	22.00	1.156			0.07	0.042	0.049
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	18900	1880	1	22.29	23.00	1.178			0.15	0.083	0.098
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 2	18900	1880	1	21.37	22.00	1.156			0.16	0.055	0.064
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	18900	1880	1	22.29	23.00	1.178			-0.05	0.040	0.047
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 2	18900	1880	1	21.37	22.00	1.156			0.19	0.029	0.034
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	2	22.29	23.00	1.178			0.02	0.075	0.088
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	18900	1880	3	22.29	23.00	1.178			-0.04	0.082	0.097
	LTE Band 2C	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	18900+19098	1880+1899.8	1	22.22	23.00	1.197			0.03	0.082	0.098
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	18900	1880	1	16.95	17.60	1.161			-0.08	0.739	0.858
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	18700	1860	1	16.94	17.60	1.164			-0.13	0.722	0.840
06	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	19100	1900	1	16.87	17.60	1.183			-0.08	0.748	0.885
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	18900	1880	1	16.91	17.60	1.172			-0.13	0.680	0.797
	LTE Band 2	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI 2	19100	1900	1	16.83	17.60	1.194			-0.04	0.674	0.805
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	18900	1880	1	16.95	17.60	1.161			-0.03	0.744	0.864
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	18700	1860	1	16.94	17.60	1.164			-0.11	0.730	0.850
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	1	16.87	17.60	1.183			-0.18	0.744	0.880
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	18900	1880	1	16.91	17.60	1.172			-0.14	0.618	0.724
	LTE Band 2	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI 2	19100	1900	1	16.83	17.60	1.194			0.07	0.538	0.642
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	18900	1880	1	16.95	17.60	1.161			-0.04	0.258	0.300
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 2	18900	1880	1	16.91	17.60	1.172			-0.18	0.212	0.248
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	18900	1880	1	16.95	17.60	1.161			-0.03	0.322	0.374
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 2	18900	1880	1	16.91	17.60	1.172			-0.07	0.267	0.313
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	19100	1900	2	16.87	17.60	1.183			-0.07	0.547	0.647
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	19100	1900	3	16.87	17.60	1.183			0.04	0.661	0.782
	LTE Band 2C	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	19100+18902	1900+1919.8	1	16.75	17.60	1.216			0.08	0.718	0.873
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	18900	1880	1	22.92	24.00	1.282			0.01	0.085	0.109
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	18900	1880	1	21.79	23.00	1.321			0.03	0.054	0.071
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	18900	1880	1	22.92	24.00	1.282			0.04	0.066	0.085
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	18900	1880	1	21.79	23.00	1.321			0.15	0.043	0.057
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	18900	1880	1	22.92	24.00	1.282			-0.04	0.107	0.137
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2	18900	1880	1	21.79	23.00	1.321			0.15	0.066	0.087
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	18900	1880	1	22.92	24.00	1.282			0.00	0.071	0.091
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2	18900	1880	1	21.79	23.00	1.321			-0.18	0.045	0.059
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	18900	1880	2	22.92	24.00	1.282			-0.04	0.104	0.133
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	18900	1880	3	22.92	24.00	1.282			0.06	0.092	0.118
	LTE Band 2C	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	18900+19098	1880+1899.8	1	22.73	24.00	1.34			0.02	0.096	0.129
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	18900	1880	1	23.29	24.00	1.178			-0.07	0.664	0.782
	LTE Band 2	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	DSI 2	18900	1880	1	22.37	23.00	1.156			-0.12	0.418	0.483
	LTE Band 2	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	DSI 2	18900	1880	1	23.29	24.00	1.178			-0.13	0.116	0.137
	LTE Band 2	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	DSI 2	18900	1880	1	22.37	23.00	1.156			0.07	0.073	0.084
	LTE Band 2	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	18900	1880	1	23.29	24.00	1.178			0.07	0.627	0.739
	LTE Band 2	20M	QPSK	50	0	Left Cheek	0mm	Ant 9	DSI 2	18900	1880	1	22.37	23.00	1.156			0.10	0.396	0.458
	LTE Band 2	20M	QPSK	1	0	Left Tilted	0mm	Ant 9	DSI 2	18900	1880	1	23.29	24.00	1.178			0.07	0.087	0.102
	LTE Band 2	20M	QPSK	50	0	Left Tilted	0mm	Ant 9	DSI 2	18900	1880	1	22.37	23.00	1.156			-0.16	0.055	0.064
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	18900	1880	2	23.29	24.00	1.178			0.04	0.593	0.699
	LTE Band 2	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	18900	1880	3	23.29	24.00	1.178			-0.07	0.474	0.558
	LTE Band 2C	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	18900+19098	1880+1899.8	1	23.22	24.00	1.197			0.02	0.660	0.790
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	1	22.87	24.00	1.297			0.04	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI 2	21100	2535	1	21.72	23.00	1.343			-0.13	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	1	22.87	24.00	1.297			-0.18	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 2	21100	2535	1	21.72	23.00	1.343			-0.18	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	1	22.87	24.00	1.297			-0.04	0.101	0.131



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	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	1	21.72	23.00	1.343			0.05	0.071	0.095
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	1	22.87	24.00	1.297			-0.14	0.001	0.001
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 2	21100	2535	1	21.72	23.00	1.343			0.16	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	2	22.87	24.00	1.297			-0.04	0.076	0.099
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	21100	2535	3	22.87	24.00	1.297			0.07	0.091	0.118
	LTE Band 7C	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	21100+20902	2535+2515.2	1	22.70	24.00	1.349			0.06	0.088	0.119
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	15.53	16.50	1.25			0.01	0.657	0.821
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	20850	2510	1	15.50	16.50	1.259			0.08	0.673	0.847
07	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	1	15.41	16.50	1.285			-0.01	0.683	0.878
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	15.55	16.50	1.245			0.15	0.564	0.702
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	15.38	16.50	1.294			0.05	0.577	0.747
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	15.53	16.50	1.25			-0.18	0.652	0.815
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	20850	2510	1	15.50	16.50	1.259			-0.11	0.678	0.854
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	21350	2560	1	15.41	16.50	1.285			-0.16	0.680	0.874
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	15.55	16.50	1.245			0.12	0.564	0.702
	LTE Band 7	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	15.38	16.50	1.294			-0.12	0.582	0.753
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	15.53	16.50	1.25			-0.09	0.271	0.339
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	15.55	16.50	1.245			0.05	0.237	0.295
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	15.53	16.50	1.25			-0.02	0.321	0.401
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	15.55	16.50	1.245			-0.14	0.283	0.352
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	2	15.41	16.50	1.285			-0.13	0.595	0.765
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	21350	2560	3	15.41	16.50	1.285			0.19	0.554	0.712
	LTE Band 7C	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	21350+21152	2560+2540.2	1	15.33	16.50	1.309			0.05	0.662	0.867
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	1	23.37	24.00	1.156			-0.04	0.201	0.232
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	1	22.34	23.00	1.164			-0.06	0.130	0.151
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	1	23.37	24.00	1.156			-0.03	0.060	0.069
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	21100	2535	1	22.34	23.00	1.164			-0.11	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	1	23.37	24.00	1.156			0.10	0.126	0.146
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2	21100	2535	1	22.34	23.00	1.164			-0.12	0.080	0.093
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	1	23.37	24.00	1.156			-0.03	0.083	0.096
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2	21100	2535	1	22.34	23.00	1.164			-0.19	0.053	0.062
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	2	23.37	24.00	1.156			0.08	0.197	0.228
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	21100	2535	3	23.37	24.00	1.156			-0.04	0.171	0.198
	LTE Band 7C	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	21100+20902	2535+2515.2	1	23.25	24.00	1.189			0.05	0.188	0.224
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	21100	2535	1	20.56	21.50	1.242			-0.17	0.666	0.827
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	20850	2510	1	20.41	21.50	1.285			0.06	0.610	0.784
	LTE Band 7	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	21350	2560	1	20.40	21.50	1.288			-0.07	0.653	0.841
	LTE Band 7	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	DSI 2	21100	2535	1	20.47	21.50	1.268			-0.05	0.538	0.682
	LTE Band 7	20M	QPSK	100	0	Right Cheek	0mm	Ant 9	DSI 2	21100	2535	1	20.25	21.50	1.334			0.06	0.564	0.752
	LTE Band 7	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	DSI 2	21100	2535	1	20.56	21.50	1.242			-0.19	0.114	0.142
	LTE Band 7	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	DSI 2	21100	2535	1	20.47	21.50	1.268			0.02	0.092	0.117
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	21100	2535	1	20.56	21.50	1.242			-0.11	0.703	0.873
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	20850	2510	1	20.41	21.50	1.285			-0.02	0.683	0.878
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	21350	2560	1	20.40	21.50	1.288			0.19	0.600	0.773
	LTE Band 7	20M	QPSK	50	0	Left Cheek	0mm	Ant 9	DSI 2	21100	2535	1	20.47	21.50	1.268			0.05	0.591	0.749
	LTE Band 7	20M	QPSK	100	0	Left Cheek	0mm	Ant 9	DSI 2	21100	2535	1	20.25	21.50	1.334			0.04	0.622	0.830
	LTE Band 7	20M	QPSK	1	0	Left Tilted	0mm	Ant 9	DSI 2	21100	2535	1	20.56	21.50	1.242			0.06	0.095	0.118
	LTE Band 7	20M	QPSK	50	0	Left Tilted	0mm	Ant 9	DSI 2	21100	2535	1	20.47	21.50	1.268			0.08	0.078	0.099
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	20850	2510	2	20.41	21.50	1.285			-0.04	0.672	0.864
	LTE Band 7	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	20850	2510	3	20.41	21.50	1.285			0.07	0.568	0.730
	LTE Band 7C	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	20850+21048	2510+2529.8	1	20.33	21.50	1.309			0.04	0.662	0.867
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	23.22	24.00	1.197			-0.07	0.064	0.077
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	22.17	23.00	1.211			0.12	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	23.22	24.00	1.197			-0.02	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	22.17	23.00	1.211			0.13	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	23.22	24.00	1.197			-0.07	0.084	0.101
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	22.17	23.00	1.211			0.09	0.051	0.062
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	23.22	24.00	1.197			-0.11	0.001	0.001
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	22.17	23.00	1.211			0.06	0.001	0.001
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	2	23.22	24.00	1.197			-0.04	0.079	0.095
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	3	23.22	24.00	1.197			0.05	0.068	0.081
08	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	23.27	24.00	1.183			-0.04	0.663	0.784
	LTE Band 12	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.24	23.00	1.191			0.16	0.635	0.756
	LTE Band 12	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	23.27	24.00	1.183			0.15	0.493	0.583
	LTE Band 12	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.24	23.00	1.191			0.19	0.348	0.414
	LTE Band 12	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	23.27	24.00	1.183			-0.01	0.222	0.263
	LTE Band 12	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 2	23095	707.5	1	22.24	23.00	1.191			-0.14	0.155	0.185
	LTE Band 12	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	23.27	24.00	1.183			-0.09	0.259	0.306
	LTE Band 12	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 2	23095	707.5	1	22.24	23.00	1.191			0.13	0.182	0.217
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	2	23.27	24.00	1.183			-0.15	0.633	0.749
	LTE Band 12	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23095	707.5	3	23.							



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	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	22.84	24.00	1.306			-0.11	0.131	0.171
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 0	DSI 2	23230	782	1	21.88	23.00	1.294			0.06	0.077	0.100
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	22.84	24.00	1.306			0.15	0.002	0.003
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 0	DSI 2	23230	782	1	21.88	23.00	1.294			-0.12	0.002	0.003
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	22.84	24.00	1.306			-0.04	0.151	0.197
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	21.88	23.00	1.294			-0.10	0.090	0.116
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	22.84	24.00	1.306			0.06	0.082	0.107
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	21.88	23.00	1.294			0.01	0.002	0.003
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23230	782	2	22.84	24.00	1.306			-0.04	0.143	0.187
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	23230	782	3	22.84	24.00	1.306			-0.01	0.125	0.163
09	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.36	23.70	1.361			0.03	0.655	0.891
	LTE Band 13	10M	QPSK	25	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.27	23.00	1.183			0.16	0.480	0.568
	LTE Band 13	10M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.25	23.00	1.189			-0.14	0.479	0.570
	LTE Band 13	10M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.36	23.70	1.361			0.14	0.610	0.830
	LTE Band 13	10M	QPSK	25	0	Right Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.27	23.00	1.183			-0.13	0.453	0.536
	LTE Band 13	10M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.25	23.00	1.189			0.12	0.451	0.536
	LTE Band 13	10M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.36	23.70	1.361			-0.08	0.296	0.403
	LTE Band 13	10M	QPSK	25	0	Left Cheek	0mm	Ant 1	DSI 2	23230	782	1	22.27	23.00	1.183			0.12	0.233	0.276
	LTE Band 13	10M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.36	23.70	1.361			-0.09	0.338	0.460
	LTE Band 13	10M	QPSK	25	0	Left Tilted	0mm	Ant 1	DSI 2	23230	782	1	22.27	23.00	1.183			0.16	0.263	0.311
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	2	22.36	23.70	1.361			-0.04	0.623	0.848
	LTE Band 13	10M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	23230	782	3	22.36	23.70	1.361			-0.07	0.611	0.832
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	23.10	24.00	1.23			-0.03	0.079	0.097
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.10	23.00	1.23			0.11	0.048	0.059
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	23.10	24.00	1.23			-0.12	0.001	0.001
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.10	23.00	1.23			-0.19	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	23.10	24.00	1.23			-0.04	0.123	0.151
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.10	23.00	1.23			-0.09	0.074	0.091
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	23.10	24.00	1.23			0.10	0.071	0.087
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.10	23.00	1.23			-0.17	0.001	0.001
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	2	23.10	24.00	1.23			-0.07	0.122	0.150
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	3	23.10	24.00	1.23			0.04	0.104	0.128
10	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	23.14	24.00	1.219			0.04	0.622	0.758
	LTE Band 26	15M	QPSK	36	0	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	22.10	23.00	1.23			-0.09	0.608	0.748
	LTE Band 26	15M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	23.14	24.00	1.219			0.10	0.484	0.590
	LTE Band 26	15M	QPSK	36	0	Right Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	22.10	23.00	1.23			0.07	0.302	0.371
	LTE Band 26	15M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	23.14	24.00	1.219			-0.19	0.260	0.317
	LTE Band 26	15M	QPSK	36	0	Left Cheek	0mm	Ant 1	DSI 2	26865	831.5	1	22.10	23.00	1.23			0.10	0.161	0.198
	LTE Band 26	15M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	23.14	24.00	1.219			0.13	0.293	0.357
	LTE Band 26	15M	QPSK	36	0	Left Tilted	0mm	Ant 1	DSI 2	26865	831.5	1	22.10	23.00	1.23			0.09	0.183	0.225
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	2	23.14	24.00	1.219			0.01	0.614	0.748
	LTE Band 26	15M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	26865	831.5	3	23.14	24.00	1.219			-0.07	0.605	0.737
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.56	18.40	1.213			0.12	0.673	0.816
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	1	17.47	18.40	1.239			-0.15	0.658	0.815
11	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	1	17.38	18.40	1.265			0.01	0.704	0.891
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.39	18.40	1.262			0.09	0.687	0.867
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	132072	1720	1	17.36	18.40	1.271			-0.07	0.671	0.853
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	1	17.36	18.40	1.271			-0.06	0.683	0.868
	LTE Band 66	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.30	18.40	1.288			0.08	0.659	0.849
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.56	18.40	1.213			-0.16	0.628	0.762
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.39	18.40	1.262			0.13	0.526	0.664
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.56	18.40	1.213			0.13	0.198	0.240
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 2	132322	1745	1	17.39	18.40	1.262			0.14	0.166	0.209
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.56	18.40	1.213			0.19	0.253	0.307
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 2	132322	1745	1	17.39	18.40	1.262			0.10	0.214	0.270
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	2	17.38	18.40	1.265			-0.04	0.653	0.826
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	132572	1770	3	17.38	18.40	1.265			-0.05	0.627	0.793
	LTE Band 66C	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	132572+132374	1770+1750.2	1	17.36	18.40	1.271			0.03	0.656	0.834
	LTE Band 66	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	1	22.75	24.00	1.334			0.02	0.103	0.137
	LTE Band 66	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	132322	1745	1	21.72	23.00	1.343			0.04	0.067	0.090
	LTE Band 66	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	132322	1745	1	22.75	24.00	1.334			-0.09	0.073	0.097
	LTE Band 66	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	132322	1745	1	21.72	23.00	1.343			0.13	0.050	0.067
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	1	22.75	24.00	1.334			-0.01	0.110	0.147
	LTE Band 66	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	1	21.72	23.00	1.343			-0.18	0.071	0.095
	LTE Band 66	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	132322	1745	1	22.75	24.00	1.334			0.06	0.096	0.128
	LTE Band 66	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2	132322	1745	1	21.72	23.00	1.343			-0.02	0.062	0.083
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	2	22.75	24.00	1.334			-0.04	0.098	0.131
	LTE Band 66	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	132322	1745	3	22.75	24.00	1.334			0.08	0.106	0.141
	LTE Band 66C	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	132322+132124	1745+1725.2	1	22.60	24.00	1.38			-0.08	0.092	0.127
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 0	DSI 2	40620	2593	1	22.77	24.00	1.327	62.9	1.006	0.13	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 0	DSI											



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	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 0	DSI 2	40620	2593	1	21.71	23.00	1.346	62.9	1.006	-0.05	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	1	22.77	24.00	1.327	62.9	1.006	-0.08	0.061	0.081
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	1	21.71	23.00	1.346	62.9	1.006	-0.19	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	1	22.77	24.00	1.327	62.9	1.006	0.18	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 0	DSI 2	40620	2593	1	21.71	23.00	1.346	62.9	1.006	0.19	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	2	22.77	24.00	1.327	62.9	1.006	-0.07	0.059	0.079
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 0	DSI 2	40620	2593	3	22.77	24.00	1.327	62.9	1.006	-0.04	0.052	0.069
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	17.56	18.10	1.132	62.9	1.006	-0.19	0.691	0.787
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	1	17.36	18.10	1.186	62.9	1.006	0.06	0.703	0.839
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	1	17.41	18.10	1.172	62.9	1.006	-0.10	0.709	0.836
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	1	17.45	18.10	1.161	62.9	1.006	0.14	0.462	0.540
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	1	17.43	18.10	1.167	62.9	1.006	-0.08	0.438	0.514
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	17.50	18.10	1.148	62.9	1.006	-0.03	0.566	0.654
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	39750	2506	1	17.35	18.10	1.189	62.9	1.006	0.08	0.585	0.700
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	1	17.43	18.10	1.167	62.9	1.006	0.01	0.577	0.677
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	41055	2636.5	1	17.44	18.10	1.164	62.9	1.006	0.03	0.381	0.446
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 1	DSI 2	41490	2680	1	17.40	18.10	1.175	62.9	1.006	-0.08	0.353	0.417
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 1	DSI 2	40185	2549.5	1	17.42	18.10	1.169	62.9	1.006	-0.07	0.415	0.488
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	17.56	18.10	1.132	62.9	1.006	-0.14	0.724	0.824
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	1	17.36	18.10	1.186	62.9	1.006	-0.03	0.742	0.885
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	17.41	18.10	1.172	62.9	1.006	0.10	0.706	0.832
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	1	17.45	18.10	1.161	62.9	1.006	-0.04	0.501	0.585
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	1	17.43	18.10	1.167	62.9	1.006	-0.17	0.459	0.539
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	17.50	18.10	1.148	62.9	1.006	-0.04	0.585	0.676
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	1	17.35	18.10	1.189	62.9	1.006	-0.08	0.619	0.740
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	17.43	18.10	1.167	62.9	1.006	0.10	0.593	0.696
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	41055	2636.5	1	17.44	18.10	1.164	62.9	1.006	-0.18	0.400	0.468
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 1	DSI 2	41490	2680	1	17.40	18.10	1.175	62.9	1.006	0.10	0.371	0.439
	LTE Band 41	20M	QPSK	100	0	Right Tilted	0mm	Ant 1	DSI 2	40185	2549.5	1	17.42	18.10	1.169	62.9	1.006	-0.08	0.472	0.555
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	17.56	18.10	1.132	62.9	1.006	-0.15	0.334	0.380
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	17.50	18.10	1.148	62.9	1.006	-0.10	0.262	0.303
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	17.56	18.10	1.132	62.9	1.006	0.04	0.361	0.411
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	17.50	18.10	1.148	62.9	1.006	0.10	0.289	0.334
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	2	17.36	18.10	1.186	62.9	1.006	0.17	0.635	0.758
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 1	DSI 2	39750	2506	3	17.36	18.10	1.186	62.9	1.006	-0.17	0.629	0.750
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	1	23.41	24.00	1.146	62.9	1.006	-0.01	0.108	0.125
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	1	22.25	23.00	1.189	62.9	1.006	0.14	0.068	0.081
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	1	23.41	24.00	1.146	62.9	1.006	-0.10	0.001	0.001
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 2	DSI 2	40620	2593	1	22.25	23.00	1.189	62.9	1.006	0.07	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	1	23.41	24.00	1.146	62.9	1.006	0.03	0.068	0.078
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 2	DSI 2	40620	2593	1	22.25	23.00	1.189	62.9	1.006	-0.00	0.043	0.051
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	1	23.41	24.00	1.146	62.9	1.006	-0.13	0.047	0.054
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 2	DSI 2	40620	2593	1	22.25	23.00	1.189	62.9	1.006	-0.16	0.001	0.001
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	2	23.41	24.00	1.146	62.9	1.006	-0.04	0.102	0.118
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 2	DSI 2	40620	2593	3	23.41	24.00	1.146	62.9	1.006	0.07	0.095	0.110
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	40620	2593	1	22.53	23.40	1.222	62.9	1.006	0.07	0.616	0.757
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	39750	2506	1	22.43	23.40	1.25	62.9	1.006	-0.06	0.609	0.766
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	40185	2549.5	1	22.42	23.40	1.253	62.9	1.006	-0.09	0.641	0.808
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	41055	2636.5	1	22.46	23.40	1.242	62.9	1.006	0.11	0.532	0.665
	LTE Band 41	20M	QPSK	1	0	Right Cheek	0mm	Ant 9	DSI 2	41490	2680	1	22.37	23.40	1.268	62.9	1.006	-0.12	0.415	0.529
	LTE Band 41	20M	QPSK	50	0	Right Cheek	0mm	Ant 9	DSI 2	40620	2593	1	22.46	23.00	1.132	62.9	1.006	-0.09	0.447	0.509
	LTE Band 41	20M	QPSK	100	0	Right Cheek	0mm	Ant 9	DSI 2	40620	2593	1	21.79	23.00	1.321	62.9	1.006	-0.03	0.511	0.679
	LTE Band 41	20M	QPSK	1	0	Right Tilted	0mm	Ant 9	DSI 2	40620	2593	1	22.53	23.40	1.222	62.9	1.006	-0.11	0.113	0.139
	LTE Band 41	20M	QPSK	50	0	Right Tilted	0mm	Ant 9	DSI 2	40620	2593	1	22.46	23.00	1.132	62.9	1.006	-0.09	0.082	0.093
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	40620	2593	1	22.53	23.40	1.222	62.9	1.006	0.15	0.686	0.843
12	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	39750	2506	1	22.43	23.40	1.25	62.9	1.006	0.02	0.716	0.900
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	40185	2549.5	1	22.42	23.40	1.253	62.9	1.006	-0.08	0.700	0.882
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	41055	2636.5	1	22.46	23.40	1.242	62.9	1.006	0.13	0.601	0.751
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	41490	2680	1	22.37	23.40	1.268	62.9	1.006	-0.16	0.483	0.616
	LTE Band 41	20M	QPSK	50	0	Left Cheek	0mm	Ant 9	DSI 2	40620	2593	1	22.46	23.00	1.132	62.9	1.006	-0.11	0.501	0.571
	LTE Band 41	20M	QPSK	100	0	Left Cheek	0mm	Ant 9	DSI 2	40620	2593	1	21.79	23.00	1.321	62.9	1.006	-0.13	0.520	0.691
	LTE Band 41	20M	QPSK	1	0	Left Tilted	0mm	Ant 9	DSI 2	40620	2593	1	22.53	23.40	1.222	62.9	1.006	0.12	0.093	0.114
	LTE Band 41	20M	QPSK	50	0	Left Tilted	0mm	Ant 9	DSI 2	40620	2593	1	22.46	23.00	1.132	62.9	1.006	-0.18	0.067	0.076
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	39750	2506	2	22.43	23.40	1.25	62.9	1.006	0.16	0.608	0.765
	LTE Band 41	20M	QPSK	1	0	Left Cheek	0mm	Ant 9	DSI 2	39750	2506	3	22.43	23.40	1.25	62.9	1.006	0.17	0.517	0.650
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	19.81	21.00	1.315	62.9	1.006	0.05	0.398	0.527
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 4	DSI 2	42590	3500	1	18.67	20.00	1.358	62.9	1.006	0.02	0.351	0.480
	LTE Band 42	20M	QPS																	



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13	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	42990	3540	1	19.53	21.00	1.403	62.9	1.006	-0.02	0.625	0.882
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 4	DSI 2	42590	3500	1	18.67	20.00	1.358	62.9	1.006	0.19	0.567	0.775
	LTE Band 42	20M	QPSK	100	0	Left Tilted	0mm	Ant 4	DSI 2	42590	3500	1	18.63	20.00	1.371	62.9	1.006	-0.12	0.572	0.789
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	42990	3540	2	19.53	21.00	1.403	62.9	1.006	0.15	0.575	0.812
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	42990	3540	3	19.53	21.00	1.403	62.9	1.006	0.10	0.543	0.766
	LTE Band 42C	20M	QPSK	1	0	Left Tilted	0mm	Ant 4	DSI 2	42990+42792	3540+3520.2	1	19.65	21.00	1.365	62.9	1.006	0.07	0.588	0.807
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI 2	42590	3500	1	18.03	19.10	1.279	62.9	1.006	-0.06	0.666	0.857
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI 2	42190	3460	1	17.87	19.10	1.327	62.9	1.006	0.10	0.650	0.868
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI 2	42990	3540	1	17.94	19.10	1.306	62.9	1.006	-0.06	0.630	0.828
	LTE Band 42	20M	QPSK	50	0	Right Cheek	0mm	Ant 7	DSI 2	42590	3500	1	17.81	19.10	1.346	62.9	1.006	-0.14	0.452	0.612
	LTE Band 42	20M	QPSK	100	0	Right Cheek	0mm	Ant 7	DSI 2	42590	3500	1	17.70	19.10	1.38	62.9	1.006	-0.01	0.520	0.722
	LTE Band 42	20M	QPSK	1	0	Right Tilted	0mm	Ant 7	DSI 2	42590	3500	1	18.03	19.10	1.279	62.9	1.006	-0.14	0.283	0.364
	LTE Band 42	20M	QPSK	50	0	Right Tilted	0mm	Ant 7	DSI 2	42590	3500	1	17.81	19.10	1.346	62.9	1.006	0.08	0.179	0.242
	LTE Band 42	20M	QPSK	1	0	Left Cheek	0mm	Ant 7	DSI 2	42590	3500	1	18.03	19.10	1.279	62.9	1.006	-0.19	0.149	0.192
	LTE Band 42	20M	QPSK	50	0	Left Cheek	0mm	Ant 7	DSI 2	42590	3500	1	17.81	19.10	1.346	62.9	1.006	-0.06	0.092	0.125
	LTE Band 42	20M	QPSK	1	0	Left Tilted	0mm	Ant 7	DSI 2	42590	3500	1	18.03	19.10	1.279	62.9	1.006	0.13	0.103	0.133
	LTE Band 42	20M	QPSK	50	0	Left Tilted	0mm	Ant 7	DSI 2	42590	3500	1	17.81	19.10	1.346	62.9	1.006	-0.12	0.065	0.088
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI 2	42190	3460	2	17.87	19.10	1.327	62.9	1.006	-0.04	0.633	0.845
	LTE Band 42	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI 2	42190	3460	3	17.87	19.10	1.327	62.9	1.006	-0.11	0.619	0.826
	LTE Band 42C	20M	QPSK	1	0	Right Cheek	0mm	Ant 7	DSI 2	42190+42388	3460+3440.2	1	17.79	19.10	1.352	62.9	1.006	0.06	0.629	0.856

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.24	18.30	1.276			0.17	0.643	0.820
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI 2	372000	1860	1	17.23	18.30	1.279			0.13	0.609	0.779
14	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	1	17.16	18.30	1.3			-0.06	0.663	0.862
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.22	18.30	1.282			-0.10	0.594	0.762
	FR1 n2	20M	BPSK	100	0	Right Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.19	18.30	1.291			0.02	0.549	0.709
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.24	18.30	1.276			0.06	0.631	0.805
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI 2	372000	1860	1	17.23	18.30	1.279			-0.14	0.577	0.738
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI 2	380000	1900	1	17.16	18.30	1.3			0.18	0.626	0.814
	FR1 n2	20M	BPSK	50	28	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.22	18.30	1.282			-0.10	0.579	0.742
	FR1 n2	20M	BPSK	100	0	Right Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.19	18.30	1.291			-0.08	0.485	0.626
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.24	18.30	1.276			0.11	0.227	0.290
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 1	DSI 2	376000	1880	1	17.22	18.30	1.282			-0.08	0.237	0.304
	FR1 n2	20M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.24	18.30	1.276			0.02	0.285	0.364
	FR1 n2	20M	BPSK	50	28	Left Tilted	0mm	Ant 1	DSI 2	376000	1880	1	17.22	18.30	1.282			-0.07	0.277	0.355
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	2	17.16	18.30	1.3			-0.04	0.637	0.828
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI 2	380000	1900	3	17.16	18.30	1.3			0.07	0.614	0.798
	FR1 n2	20M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI 2	376000	1880	1	23.07	24.00	1.239			-0.02	0.067	0.083
	FR1 n2	20M	BPSK	50	28	Right Cheek	0mm	Ant 2	DSI 2	376000	1880	1	23.04	24.00	1.247			-0.14	0.072	0.090
	FR1 n2	20M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI 2	376000	1880	1	23.07	24.00	1.239			0.01	0.054	0.067
	FR1 n2	20M	BPSK	50	28	Right Tilted	0mm	Ant 2	DSI 2	376000	1880	1	23.04	24.00	1.247			0.09	0.058	0.072
	FR1 n2	20M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI 2	376000	1880	1	23.07	24.00	1.239			-0.14	0.078	0.097
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 2	DSI 2	376000	1880	1	23.04	24.00	1.247			-0.07	0.081	0.101
	FR1 n2	20M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI 2	376000	1880	1	23.07	24.00	1.239			0.16	0.060	0.074
	FR1 n2	20M	BPSK	50	28	Left Tilted	0mm	Ant 2	DSI 2	376000	1880	1	23.04	24.00	1.247			-0.07	0.058	0.072
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 2	DSI 2	376000	1880	2	23.04	24.00	1.247			-0.07	0.077	0.096
	FR1 n2	20M	BPSK	50	28	Left Cheek	0mm	Ant 2	DSI 2	376000	1880	3	23.04	24.00	1.247			-0.04	0.076	0.095
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.79	16.70	1.233			0.11	0.700	0.863
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.78	16.70	1.236			-0.08	0.697	0.861
	FR1 n7	50M	BPSK	270	0	Right Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.75	16.70	1.245			-0.14	0.684	0.852
15	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.79	16.70	1.233			0.02	0.712	0.878
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.78	16.70	1.236			-0.06	0.700	0.865
	FR1 n7	50M	BPSK	270	0	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.75	16.70	1.245			-0.01	0.671	0.835
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.79	16.70	1.233			0.05	0.316	0.390
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 1	DSI 2	507000	2535	1	15.78	16.70	1.236			-0.03	0.310	0.383
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.79	16.70	1.233			0.18	0.365	0.450
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 1	DSI 2	507000	2535	1	15.78	16.70	1.236			-0.08	0.371	0.459
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	2	15.79	16.70	1.233			-0.07	0.672	0.829
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 1	DSI 2	507000	2535	3	15.79	16.70	1.233			0.04	0.615	0.758
	FR1 n7	50M	BPSK	1	1	Right Cheek	0mm	Ant 2	DSI 2	507000	2535	1	23.26	24.00	1.186			-0.04	0.201	0.238
	FR1 n7	50M	BPSK	135	68	Right Cheek	0mm	Ant 2	DSI 2	507000	2535	1	23.12	24.00	1.225			0.16	0.190	0.233
	FR1 n7	50M	BPSK	1	1	Right Tilted	0mm	Ant 2	DSI 2	507000	2535	1	23.26	24.00	1.186			0.10	0.075	0.089
	FR1 n7	50M	BPSK	135	68	Right Tilted	0mm	Ant 2	DSI 2	507000	2535	1	23.12	24.00	1.225			0.04	0.068	0.083
	FR1 n7	50M	BPSK	1	1	Left Cheek	0mm	Ant 2	DSI 2	507000	2535	1	23.26	24.00	1.186			-0.04	0.114	0.135
	FR1 n7	50M	BPSK	135	68	Left Cheek	0mm	Ant 2	DSI 2	507000	2535	1	23.12	24.00	1.225			0.01	0.117	0.143
	FR1 n7	50M	BPSK	1	1	Left Tilted	0mm	Ant 2	DSI 2	507000	2535	1	23.26	24.00	1.186			0.15	0.072	0.085
	FR1 n7	50M	BPSK	135	68	Left Tilted	0mm	Ant 2	DSI 2	507000	2535	1	23.12	24.00	1.225			-0.00	0.069	0.085



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	FR1 n7	50M	BPSK	1	1	Right Cheek	Omm	Ant 2	DSI 2	507000	2535	2	23.26	24.00	1.186			-0.07	0.198	0.235
	FR1 n7	50M	BPSK	1	1	Right Cheek	Omm	Ant 2	DSI 2	507000	2535	3	23.26	24.00	1.186			0.05	0.139	0.165
	FR1 n66	40M	BPSK	1	1	Right Cheek	Omm	Ant 1	DSI 2	349000	1745	1	19.03	20.10	1.279			-0.03	0.588	0.752
	FR1 n66	40M	BPSK	108	54	Right Cheek	Omm	Ant 1	DSI 2	349000	1745	1	19.01	20.10	1.285			0.15	0.681	0.875
	FR1 n66	40M	BPSK	216	0	Right Cheek	Omm	Ant 1	DSI 2	349000	1745	1	18.91	20.10	1.315			-0.09	0.635	0.835
	FR1 n66	40M	BPSK	1	1	Right Tilted	Omm	Ant 1	DSI 2	349000	1745	1	19.03	20.10	1.279			-0.13	0.563	0.720
16	FR1 n66	40M	BPSK	108	54	Right Tilted	Omm	Ant 1	DSI 2	349000	1745	1	19.01	20.10	1.285			0.14	0.685	0.880
	FR1 n66	40M	BPSK	216	0	Right Tilted	Omm	Ant 1	DSI 2	349000	1745	1	18.91	20.10	1.315			0.14	0.622	0.818
	FR1 n66	40M	BPSK	1	1	Left Cheek	Omm	Ant 1	DSI 2	349000	1745	1	19.03	20.10	1.279			-0.19	0.196	0.251
	FR1 n66	40M	BPSK	108	54	Left Cheek	Omm	Ant 1	DSI 2	349000	1745	1	19.01	20.10	1.285			-0.16	0.253	0.325
	FR1 n66	40M	BPSK	1	1	Left Tilted	Omm	Ant 1	DSI 2	349000	1745	1	19.03	20.10	1.279			-0.05	0.242	0.310
	FR1 n66	40M	BPSK	108	54	Left Tilted	Omm	Ant 1	DSI 2	349000	1745	1	19.01	20.10	1.285			0.03	0.303	0.389
	FR1 n66	40M	BPSK	108	54	Right Tilted	Omm	Ant 1	DSI 2	349000	1745	2	19.01	20.10	1.285			-0.04	0.671	0.862
	FR1 n66	40M	BPSK	108	54	Right Tilted	Omm	Ant 1	DSI 2	349000	1745	3	19.01	20.10	1.285			0.05	0.652	0.838
	FR1 n66	40M	BPSK	1	1	Right Cheek	Omm	Ant 2	DSI 2	349000	1745	1	23.27	24.00	1.183			0.11	0.075	0.089
	FR1 n66	40M	BPSK	108	54	Right Cheek	Omm	Ant 2	DSI 2	349000	1745	1	23.05	24.00	1.245			0.05	0.085	0.106
	FR1 n66	40M	BPSK	1	1	Right Tilted	Omm	Ant 2	DSI 2	349000	1745	1	23.27	24.00	1.183			-0.19	0.054	0.064
	FR1 n66	40M	BPSK	108	54	Right Tilted	Omm	Ant 2	DSI 2	349000	1745	1	23.05	24.00	1.245			-0.07	0.057	0.071
	FR1 n66	40M	BPSK	1	1	Left Cheek	Omm	Ant 2	DSI 2	349000	1745	1	23.27	24.00	1.183			-0.16	0.112	0.132
	FR1 n66	40M	BPSK	108	54	Left Cheek	Omm	Ant 2	DSI 2	349000	1745	1	23.05	24.00	1.245			-0.05	0.117	0.146
	FR1 n66	40M	BPSK	1	1	Left Tilted	Omm	Ant 2	DSI 2	349000	1745	1	23.27	24.00	1.183			-0.04	0.060	0.071
	FR1 n66	40M	BPSK	108	54	Left Tilted	Omm	Ant 2	DSI 2	349000	1745	1	23.05	24.00	1.245			0.03	0.062	0.077
	FR1 n66	40M	BPSK	108	54	Left Cheek	Omm	Ant 2	DSI 2	349000	1745	2	23.05	24.00	1.245			0.12	0.113	0.141
	FR1 n66	40M	BPSK	108	54	Left Cheek	Omm	Ant 2	DSI 2	349000	1745	3	23.05	24.00	1.245			0.08	0.093	0.116
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 0	DSI 2	518598	2592.99	1	20.52	21.50	1.253			0.15	0.038	0.048
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 0	DSI 2	518598	2592.99	1	20.54	21.50	1.247			-0.11	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 0	DSI 2	518598	2592.99	1	20.52	21.50	1.253			-0.12	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 0	DSI 2	518598	2592.99	1	20.54	21.50	1.247			-0.18	0.001	0.001
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 0	DSI 2	518598	2592.99	1	20.52	21.50	1.253			-0.15	0.047	0.059
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 0	DSI 2	518598	2592.99	1	20.54	21.50	1.247			-0.04	0.071	0.089
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 0	DSI 2	518598	2592.99	1	20.52	21.50	1.253			-0.06	0.028	0.035
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 0	DSI 2	518598	2592.99	1	20.54	21.50	1.247			0.10	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 0	DSI 2	518598	2592.99	2	20.54	21.50	1.247			-0.07	0.058	0.072
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 0	DSI 2	518598	2592.99	3	20.54	21.50	1.247			0.04	0.068	0.085
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 1	DSI 2	518598	2592.99	1	15.57	16.70	1.297			-0.16	0.663	0.860
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 1	DSI 2	518598	2592.99	1	15.56	16.70	1.3			-0.01	0.615	0.799
	FR1 n41	100M	BPSK	270	0	Right Cheek	Omm	Ant 1	DSI 2	518598	2592.99	1	15.54	16.70	1.306			0.04	0.554	0.724
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 1	DSI 2	518598	2592.99	1	15.57	16.70	1.297			-0.01	0.677	0.878
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 1	DSI 2	518598	2592.99	1	15.56	16.70	1.3			-0.12	0.612	0.796
	FR1 n41	100M	BPSK	270	0	Right Tilted	Omm	Ant 1	DSI 2	518598	2592.99	1	15.54	16.70	1.306			-0.17	0.557	0.727
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 1	DSI 2	518598	2592.99	1	15.57	16.70	1.297			-0.02	0.313	0.406
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 1	DSI 2	518598	2592.99	1	15.56	16.70	1.3			-0.11	0.279	0.363
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 1	DSI 2	518598	2592.99	1	15.57	16.70	1.297			-0.09	0.356	0.462
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 1	DSI 2	518598	2592.99	1	15.56	16.70	1.3			0.03	0.323	0.420
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 1	DSI 2	518598	2592.99	2	15.57	16.70	1.297			-0.07	0.643	0.834
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 1	DSI 2	518598	2592.99	3	15.57	16.70	1.297			0.04	0.588	0.763
	FR1 n41	100M	BPSK	1	271	Right Cheek	Omm	Ant 2	DSI 2	518598	2592.99	1	23.04	24.00	1.247			-0.01	0.181	0.226
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 2	DSI 2	518598	2592.99	1	22.68	24.00	1.355			0.07	0.161	0.218
	FR1 n41	100M	BPSK	1	271	Right Tilted	Omm	Ant 2	DSI 2	518598	2592.99	1	23.04	24.00	1.247			-0.05	0.066	0.082
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 2	DSI 2	518598	2592.99	1	22.68	24.00	1.355			0.11	0.060	0.081
	FR1 n41	100M	BPSK	1	271	Left Cheek	Omm	Ant 2	DSI 2	518598	2592.99	1	23.04	24.00	1.247			-0.13	0.121	0.151
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 2	DSI 2	518598	2592.99	1	22.68	24.00	1.355			-0.10	0.095	0.129
	FR1 n41	100M	BPSK	1	271	Left Tilted	Omm	Ant 2	DSI 2	518598	2592.99	1	23.04	24.00	1.247			0.13	0.091	0.113
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 2	DSI 2	518598	2592.99	1	22.68	24.00	1.355			0.08	0.065	0.088
	FR1 n41	100M	BPSK	1	271	Right Cheek	Omm	Ant 2	DSI 2	518598	2592.99	2	23.04	24.00	1.247			-0.07	0.175	0.218
	FR1 n41	100M	BPSK	1	271	Right Cheek	Omm	Ant 2	DSI 2	518598	2592.99	3	23.04	24.00	1.247			0.08	0.144	0.180
	FR1 n41	100M	BPSK	1	1	Right Cheek	Omm	Ant 9	DSI 2	518598	2592.99	1	20.05	20.90	1.216			0.03	0.563	0.685
	FR1 n41	100M	BPSK	135	69	Right Cheek	Omm	Ant 9	DSI 2	518598	2592.99	1	20.01	20.90	1.227			0.07	0.601	0.737
	FR1 n41	100M	BPSK	1	1	Right Tilted	Omm	Ant 9	DSI 2	518598	2592.99	1	20.05	20.90	1.216			-0.01	0.102	0.124
	FR1 n41	100M	BPSK	135	69	Right Tilted	Omm	Ant 9	DSI 2	518598	2592.99	1	20.01	20.90	1.227			0.12	0.105	0.129
	FR1 n41	100M	BPSK	1	1	Left Cheek	Omm	Ant 9	DSI 2	518598	2592.99	1	20.05	20.90	1.216			0.05	0.623	0.758
17	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 9	DSI 2	518598	2592.99	1	20.01	20.90	1.227			0.08	0.717	0.880
	FR1 n41	100M	BPSK	270	0	Left Cheek	Omm	Ant 9	DSI 2	518598	2592.99	1	19.96	20.90	1.242			0.09	0.698	0.867
	FR1 n41	100M	BPSK	1	1	Left Tilted	Omm	Ant 9	DSI 2	518598	2592.99	1	20.05	20.90	1.216			-0.01	0.106	0.129
	FR1 n41	100M	BPSK	135	69	Left Tilted	Omm	Ant 9	DSI 2	518598	2592.99	1	20.01	20.90	1.227			-0.08	0.105	0.129
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 9	DSI 2	518598	2592.99	2	20.01	20.90	1.227			-0.07	0.689	0.845
	FR1 n41	100M	BPSK	135	69	Left Cheek	Omm	Ant 9	DSI 2	518598	2592.99	3	20.01	20.90	1.227			0.05	0.706	0.866
	FR1 n77	100M	BPSK	1	1	Right Cheek	Omm	Ant 4	DSI 2	656000	3840	1	15.77	16.50	1.183			0.11	0.440	0.521
	FR1 n77	100M	BPSK	135	69	Right Cheek	Omm	Ant 4	DSI 2	656000	3840	1	15.72	16.50	1.197			0.19	0.429	0.514
	FR1 n77	100M	BPSK	1	1	Right Tilted	Omm	Ant 4	DSI 2	656000	3840	1	15.77	16.50	1.183			-0.11	0.564	0.667
	FR1 n77	100M	BPSK	135	69	Right Tilted	Omm	Ant 4	DSI 2	656000										



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18	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	1	15.77	16.50	1.183			-0.11	0.749	0.886
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	1	15.72	16.50	1.197			0.02	0.718	0.859
	FR1 n77	100M	BPSK	270	0	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	1	15.65	16.50	1.216			0.16	0.656	0.798
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	2	15.77	16.50	1.183			-0.05	0.423	0.500
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 4	DSI 2	656000	3840	3	15.77	16.50	1.183			0.07	0.421	0.498
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 5	DSI 2	656000	3840	1	16.38	17.50	1.294			0.04	0.403	0.521
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 5	DSI 2	656000	3840	1	16.36	17.50	1.3			-0.06	0.325	0.423
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 5	DSI 2	656000	3840	1	16.38	17.50	1.294			-0.19	0.506	0.655
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 5	DSI 2	656000	3840	1	16.36	17.50	1.3			-0.09	0.409	0.532
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	1	16.38	17.50	1.294			0.01	0.668	0.864
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	1	16.36	17.50	1.3			-0.14	0.490	0.637
	FR1 n77	100M	BPSK	270	0	Left Cheek	0mm	Ant 5	DSI 2	656000	3840	1	16.33	17.50	1.309			0.03	0.485	0.635
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	2	16.38	17.50	1.294			-0.07	0.594	0.769
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	3	16.38	17.50	1.294			0.04	0.613	0.793
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	1	16.38	17.50	1.294			0.14	0.676	0.875
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	1	16.36	17.50	1.3			0.05	0.559	0.727
	FR1 n77	100M	BPSK	270	0	Left Tilted	0mm	Ant 5	DSI 2	656000	3840	1	16.33	17.50	1.309			-0.00	0.526	0.689
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	1	18.86	20.20	1.361			0.04	0.634	0.863
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	1	18.69	20.20	1.416			-0.15	0.604	0.855
	FR1 n77	100M	BPSK	270	0	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	1	18.58	20.20	1.452			-0.06	0.591	0.858
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 7	DSI 2	656000	3840	1	18.86	20.20	1.361			-0.05	0.305	0.415
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 7	DSI 2	656000	3840	1	18.69	20.20	1.416			-0.00	0.298	0.422
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 7	DSI 2	656000	3840	1	18.86	20.20	1.361			-0.10	0.184	0.250
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 7	DSI 2	656000	3840	1	18.69	20.20	1.416			-0.17	0.178	0.252
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	18.86	20.20	1.361			0.03	0.127	0.173
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 7	DSI 2	656000	3840	1	18.69	20.20	1.416			-0.08	0.132	0.187
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	2	18.86	20.20	1.361			-0.07	0.621	0.845
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 7	DSI 2	656000	3840	3	18.86	20.20	1.361			-0.04	0.646	0.879
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	1	22.79	24.00	1.321			-0.01	0.131	0.173
	FR1 n77	100M	BPSK	135	69	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	1	22.55	24.00	1.396			0.03	0.122	0.170
	FR1 n77	100M	BPSK	1	1	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	1	22.79	24.00	1.321			-0.15	0.051	0.067
	FR1 n77	100M	BPSK	135	69	Right Tilted	0mm	Ant 8	DSI 2	656000	3840	1	22.55	24.00	1.396			0.04	0.053	0.074
	FR1 n77	100M	BPSK	1	1	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	22.79	24.00	1.321			-0.10	0.081	0.107
	FR1 n77	100M	BPSK	135	69	Left Cheek	0mm	Ant 8	DSI 2	656000	3840	1	22.55	24.00	1.396			-0.04	0.067	0.094
	FR1 n77	100M	BPSK	1	1	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	1	22.79	24.00	1.321			-0.07	0.087	0.115
	FR1 n77	100M	BPSK	135	69	Left Tilted	0mm	Ant 8	DSI 2	656000	3840	1	22.55	24.00	1.396			0.10	0.082	0.114
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	2	22.79	24.00	1.321			-0.07	0.127	0.168
	FR1 n77	100M	BPSK	1	1	Right Cheek	0mm	Ant 8	DSI 2	656000	3840	3	22.79	24.00	1.321			0.05	0.124	0.164

[WLAN 2.4GHz_5GHz SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Head_Standalone	1	2412	1	18.09	19.50	1.384	97.45	1.026	0.12	0.345	0.490
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	0mm	Ant 3	Head_Simultaneous	1	2412	1	12.62	14.00	1.374	97.45	1.026	-0.03	0.097	0.137
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Head_Standalone	1	2412	1	18.09	19.50	1.384	97.45	1.026	-0.19	0.403	0.572
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	0mm	Ant 3	Head_Simultaneous	1	2412	1	12.62	14.00	1.374	97.45	1.026	0.08	0.114	0.161
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Head_Standalone	1	2412	1	18.09	19.50	1.384	97.45	1.026	0.16	0.896	1.272
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Head_Standalone	6	2437	1	17.38	18.50	1.294	97.45	1.026	-0.13	0.848	1.126
19	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Head_Standalone	11	2462	1	17.26	18.50	1.33	97.45	1.026	0.09	0.993	1.355
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Head_Simultaneous	1	2412	1	12.62	14.00	1.374	97.45	1.026	0.05	0.280	0.395
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Head_Standalone	1	2412	1	18.09	19.50	1.384	97.45	1.026	-0.06	0.615	0.873
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Head_Standalone	6	2437	1	17.38	18.50	1.294	97.45	1.026	0.09	0.593	0.787
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Head_Standalone	11	2462	1	17.26	18.50	1.33	97.45	1.026	-0.04	0.763	1.041
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Head_Standalone	11	2462	2	17.26	18.50	1.33	97.45	1.026	0.06	0.971	1.325
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0mm	Ant 3	Head_Standalone	11	2462	3	17.26	18.50	1.33	97.45	1.026	0.08	0.885	1.208
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	0mm	Ant 3	Head_Simultaneous	1	2412	1	12.62	14.00	1.374	97.45	1.026	0.03	0.173	0.244
	WLAN2.4GHz	802.11g 6Mbps	Left Cheek	0mm	Ant 3	Head_Standalone	1	2412	1	17.86	19.50	1.459	98.84	1.012	0.01	0.837	1.236
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 4	Head_Standalone	54	5270	1	17.01	18.50	1.409	100.0	1.0	-0.13	0.488	0.688
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	Head_Simultaneous	58	5290	1	12.00	13.50	1.413	100.0	1.0	0.02	0.154	0.218
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4	Head_Standalone	54	5270	1	17.01	18.50	1.409	100.0	1.0	-0.11	0.576	0.812
	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 4	Head_Standalone	62	5310	1	12.63	14.00	1.371	100.0	1.0	-0.07	0.237	0.325
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	Head_Simultaneous	58	5290	1	12.00	13.50	1.413	100.0	1.0	0.02	0.182	0.257
20	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	54	5270	1	17.01	18.50	1.409	100.0	1.0	0.06	0.771	1.086
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	62	5310	1	12.63	14.00	1.371	100.0	1.0	0.04	0.317	0.435
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Simultaneous	58	5290	1	12.00	13.50	1.413	100.0	1.0	0.06	0.204	0.288
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	Head_Standalone	54	5270	1	17.01	18.50	1.409	100.0	1.0	0.09	0.683	0.962
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4	Head_Standalone	62	5310	1	12.63	14.00	1.371	100.0	1.0	0.07	0.275	0.377
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	Head_Simultaneous	58	5290	1	12.00	13.50	1.413	100.0	1.0	0.08	0.196	0.277
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	54	5270	2	17.01	18.50	1.409	100.0	1.0	0.06	0.745	1.050
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	54	5270	3	17.01	18.50	1.409	100.0	1.0	0.09	0.761	1.072
	WLAN5GHz	802.11n-HT40 MCS0	Right Cheek	0mm	Ant 6	Head_Standalone	54	5270	1	18.32	19.50	1.312	100.0	1.0	0.02	0.141	0.185
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Head_Simultaneous	58	5290	1	13.87	15.00	1.297	100.0	1.0	-0.03	0.056	0.073



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	WLAN5GHz	802.11n-HT40 MCS0	Right Tilted	0mm	Ant 6	Head_Standalone	54	5270	1	18.32	19.50	1.312	100.0	1.0	0.16	0.074	0.097
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Head_Simultaneous	58	5290	1	13.87	15.00	1.297	100.0	1.0	-0.11	0.029	0.038
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	54	5270	1	18.32	19.50	1.312	100.0	1.0	-0.01	0.705	0.925
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	62	5310	1	13.31	15.00	1.476	100.0	1.0	-0.07	0.254	0.375
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Simultaneous	58	5290	1	13.87	15.00	1.297	100.0	1.0	-0.02	0.220	0.285
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Head_Standalone	54	5270	1	18.32	19.50	1.312	100.0	1.0	0.05	0.683	0.896
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 6	Head_Standalone	62	5310	1	13.31	15.00	1.476	100.0	1.0	0.09	0.247	0.365
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Head_Simultaneous	58	5290	1	13.87	15.00	1.297	100.0	1.0	0.03	0.212	0.275
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	54	5270	2	18.32	19.50	1.312	100.0	1.0	0.03	0.702	0.921
	WLAN5GHz	802.11n-HT40 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	54	5270	3	18.32	19.50	1.312	100.0	1.0	0.09	0.698	0.916
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	Head_Standalone	138	5690	1	16.33	17.50	1.309	100.0	1.0	-0.10	0.400	0.524
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	Head_Simultaneous	138	5690	1	11.73	13.00	1.34	100.0	1.0	-0.02	0.142	0.190
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	Head_Standalone	138	5690	1	16.33	17.50	1.309	100.0	1.0	0.05	0.405	0.530
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	Head_Simultaneous	138	5690	1	11.73	13.00	1.34	100.0	1.0	0.10	0.144	0.193
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	138	5690	1	16.33	17.50	1.309	100.0	1.0	-0.01	0.779	1.020
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	122	5610	1	16.12	17.50	1.374	100.0	1.0	0.08	0.686	0.943
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Simultaneous	138	5690	1	11.73	13.00	1.34	100.0	1.0	-0.08	0.217	0.291
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	Head_Standalone	138	5690	1	16.33	17.50	1.309	100.0	1.0	-0.12	0.571	0.747
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	138	5690	2	16.33	17.50	1.309	100.0	1.0	0.03	0.771	1.009
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	138	5690	3	16.33	17.50	1.309	100.0	1.0	0.02	0.764	1.000
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	Head_Simultaneous	138	5690	1	11.73	13.00	1.34	100.0	1.0	0.03	0.203	0.272
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Head_Standalone	138	5690	1	17.35	18.50	1.303	100.0	1.0	-0.06	0.223	0.291
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Head_Simultaneous	138	5690	1	12.30	13.50	1.318	100.0	1.0	0.02	0.070	0.092
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Head_Standalone	138	5690	1	17.35	18.50	1.303	100.0	1.0	0.14	0.157	0.205
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Head_Simultaneous	138	5690	1	12.30	13.50	1.318	100.0	1.0	-0.02	0.050	0.066
21	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	138	5690	1	17.35	18.50	1.303	100.0	1.0	0.06	0.912	1.188
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	122	5610	1	17.18	18.50	1.355	100.0	1.0	0.14	0.841	1.140
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Simultaneous	138	5690	1	12.30	13.50	1.318	100.0	1.0	-0.03	0.218	0.287
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Head_Standalone	138	5690	1	17.35	18.50	1.303	100.0	1.0	-0.13	0.727	0.947
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Head_Standalone	122	5610	1	17.18	18.50	1.355	100.0	1.0	0.04	0.702	0.951
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Head_Simultaneous	138	5690	1	12.30	13.50	1.318	100.0	1.0	0.04	0.207	0.273
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	138	5690	2	17.35	18.50	1.303	100.0	1.0	0.03	0.891	1.161
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	138	5690	3	17.35	18.50	1.303	100.0	1.0	0.02	0.865	1.127
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	Head_Standalone	155	5775	1	16.23	17.50	1.34	100.0	1.0	0.03	0.509	0.682
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 4	Head_Simultaneous	155	5775	1	11.55	13.00	1.396	100.0	1.0	0.02	0.161	0.225
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	Head_Standalone	155	5775	1	16.23	17.50	1.34	100.0	1.0	0.01	0.512	0.686
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 4	Head_Simultaneous	155	5775	1	11.55	13.00	1.396	100.0	1.0	-0.06	0.144	0.201
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	155	5775	1	16.23	17.50	1.34	100.0	1.0	0.05	0.780	1.045
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Simultaneous	155	5775	1	11.55	13.00	1.396	100.0	1.0	0.11	0.210	0.293
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	Head_Standalone	155	5775	1	16.23	17.50	1.34	100.0	1.0	0.01	0.776	1.040
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	155	5775	2	16.23	17.50	1.34	100.0	1.0	0.03	0.775	1.039
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 4	Head_Standalone	155	5775	3	16.23	17.50	1.34	100.0	1.0	0.02	0.706	0.946
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4	Head_Simultaneous	155	5775	1	11.55	13.00	1.396	100.0	1.0	0.01	0.209	0.292
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Head_Standalone	155	5775	1	16.20	17.50	1.349	100.0	1.0	-0.15	0.189	0.255
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Cheek	0mm	Ant 6	Head_Simultaneous	155	5775	1	11.07	12.50	1.39	100.0	1.0	0.02	0.060	0.083
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Head_Standalone	155	5775	1	16.20	17.50	1.349	100.0	1.0	-0.00	0.117	0.158
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Tilted	0mm	Ant 6	Head_Simultaneous	155	5775	1	11.07	12.50	1.39	100.0	1.0	0.06	0.037	0.051
22	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	155	5775	1	16.20	17.50	1.349	100.0	1.0	0.01	0.876	1.182
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Simultaneous	155	5775	1	11.07	12.50	1.39	100.0	1.0	-0.03	0.205	0.285
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Head_Standalone	155	5775	1	16.20	17.50	1.349	100.0	1.0	0.05	0.237	0.320
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	155	5775	2	16.20	17.50	1.349	100.0	1.0	0.03	0.790	1.066
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0mm	Ant 6	Head_Standalone	155	5775	3	16.20	17.50	1.349	100.0	1.0	0.01	0.823	1.110
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 6	Head_Simultaneous	155	5775	1	11.07	12.50	1.39	100.0	1.0	0.13	0.075	0.104

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	Head Standalone	39	2441	1	13.71	15.00	1.346	77.13	1.08	0.05	0.109	0.158
	Bluetooth	1Mbps	Right Cheek	0mm	Ant 3	Head Simultaneous	39	2441	1	11.04	12.50	1.4	77.13	1.08	0.03	0.081	0.122
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	Head Standalone	39	2441	1	13.71	15.00	1.346	77.13	1.08	0.11	0.135	0.196
	Bluetooth	1Mbps	Right Tilted	0mm	Ant 3	Head Simultaneous	39	2441	1	11.04	12.50	1.4	77.13	1.08	0.09	0.100	0.151
23	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Head Standalone	39	2441	1	13.71	15.00	1.346	77.13	1.08	-0.11	0.276	0.401
	Bluetooth	1Mbps	Left Cheek	0mm	Ant 3	Head Simultaneous	39	2441	1	11.04	12.50	1.4	77.13	1.08	0.02	0.132	0.200
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	Head Standalone	39	2441	1	13.71	15.00	1.346	77.13	1.08	-0.13	0.236	0.343
	Bluetooth	1Mbps	Left Tilted	0mm	Ant 3	Head Simultaneous	39	2441	1	11.04	12.50	1.4	77.13	1.08	0.03	0.125	0.189

Plot No.	Band	BW (MHz)	Mode	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11AX-HE80 MCS0	Right Cheek	0mm	Ant 4	Head Standalone	215	7025	1	16.85	18.50	1.462	100	1.000	-0.09	0.176	0.257	1.13
	WLAN6GHz	802.11AX-HE80 MCS0	Right Cheek	0mm	Ant 4	Head Simultaneous	215	7025	1	13.34	15.00	1.466	100	1.000	0.01	0.099	0.145	0.634
	WLAN6GHz	802.11AX-HE80 MCS0	Right Tilted	0mm	Ant 4	Head Standalone	215	7025	1	16.85	18.50	1.462	100	1.000	-0.08	0.213	0.311	1.36
	WLAN6GHz	802.11AX-HE80 MCS0	Right Tilted	0mm	Ant 4	Head Simultaneous	215	7025	1	13.34	15.00	1.466	100	1.000	-0.01	0.114	0.167	0.73
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 4	Head Standalone	215	7025	1	16.85	18.50	1.462	100	1.000	0.13	0.326	0.477	2.09
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 4	Head Simultaneous	215	7025	1	13.34	15.00	1.466	100	1.000	-0.03	0.158	0.232	1.01
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	215	7025	1	16.85	18.50	1.462	100	1.000	0.12	0.407	0.595	2.61
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Simultaneous	215	7025	1	13.34	15.00	1.466	100	1.000	0.02	0.216	0.317	1.39
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	7	5985	1	13.91	15.50	1.442	100	1.000	0.12	0.111	0.160	0.711
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Simultaneous	7	5985	1	12.60	14.00	1.380	100	1.000	0.02	0.054	0.075	0.346
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	87	6385	1	15.52	17.00	1.406	100	1.000	0.18	0.530	0.745	3.4
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Simultaneous	87	6385	1	13.09	14.50	1.384	100	1.000	0.09	0.260	0.360	1.67
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	103	6465	1	15.87	17.50	1.455	100	1.000	0.16	0.531	0.773	3.4
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Simultaneous	103	6465	1	12.80	14.50	1.479	100	1.000	0.03	0.257	0.380	1.65
24	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	135	6625	1	15.96	17.50	1.426	100	1.000	-0.05	0.626	0.893	4.01
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Simultaneous	135	6625	1	12.50	14.00	1.413	100	1.000	0.01	0.271	0.383	1.74
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	135	6625	2	15.96	17.50	1.426	100	1.000	-0.15	0.605	0.863	3.88
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 4	Head Standalone	135	6625	3	15.96	17.50	1.426	100	1.000	0.03	0.614	0.875	3.93
	WLAN6GHz	802.11AX-HE80 MCS0	Right Cheek	0mm	Ant 6	Head Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.07	0.089	0.124	0.656
	WLAN6GHz	802.11AX-HE80 MCS0	Right Tilted	0mm	Ant 6	Head Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.18	0.068	0.095	0.501
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	-0.1	0.205	0.286	1.81
	WLAN6GHz	802.11AX-HE80 MCS0	Left Tilted	0mm	Ant 6	Head Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.01	0.037	0.052	0.273
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	7	5985	1	17.12	18.50	1.374	100	1.000	0.01	0.335	0.460	2.47
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Simultaneous	7	5985	1	16.08	17.50	1.387	100	1.000	0.01	0.205	0.284	1.51
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	7	5985	2	17.12	18.50	1.374	100	1.000	0.08	0.316	0.434	2.33
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	7	5985	3	17.12	18.50	1.374	100	1.000	-0.13	0.324	0.445	2.39
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	87	6385	1	16.85	18.50	1.462	100	1.000	0.19	0.188	0.275	1.39
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Simultaneous	87	6385	1	15.90	17.50	1.445	100	1.000	0.05	0.152	0.220	1.12
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	119	6545	1	17.03	18.50	1.403	100	1.000	0.07	0.088	0.123	0.649
	WLAN6GHz	802.11AX-HE80 MCS0	Left Cheek	0mm	Ant 6	Head Standalone	135	6625	1	17.29	18.50	1.321	100	1.000	-0.18	0.147	0.194	1.08



16.2 Hotspot SAR

[GSM SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 3 Tx slots	Front	5mm	Ant 0	DSI 7	189	836.4	1	28.84	29.50	1.164	0.09	0.340	0.396
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 7	189	836.4	1	28.84	29.50	1.164	0.16	0.883	1.028
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 7	128	824.2	1	28.70	29.50	1.202	0.04	0.994	1.195
25	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 7	251	848.8	1	28.77	29.50	1.183	-0.14	1.090	1.289
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 7	251	848.8	2	28.77	29.50	1.183	-0.01	0.910	1.077
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 7	251	848.8	3	28.77	29.50	1.183	0.07	0.830	0.982
	GSM850	GPRS 3 Tx slots	Left Side	5mm	Ant 0	DSI 7	189	836.4	1	28.84	29.50	1.164	-0.19	0.363	0.423
	GSM850	GPRS 3 Tx slots	Bottom Side	5mm	Ant 0	DSI 7	189	836.4	1	28.84	29.50	1.164	-0.16	0.393	0.457
	GSM850	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI 7	189	836.4	1	22.85	23.80	1.245	-0.15	0.158	0.197
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	189	836.4	1	22.85	23.80	1.245	-0.08	0.504	0.627
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	189	836.4	2	22.85	23.80	1.245	-0.04	0.343	0.427
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	189	836.4	3	22.85	23.80	1.245	0.07	0.374	0.466
	GSM850	GPRS 3 Tx slots	Left Side	5mm	Ant 1	DSI 7	189	836.4	1	22.85	23.80	1.245	-0.12	0.112	0.139
	GSM850	GPRS 3 Tx slots	Top Side	5mm	Ant 1	DSI 7	189	836.4	1	22.85	23.80	1.245	0.06	0.390	0.486
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI 7	661	1880	1	18.33	20.20	1.538	-0.12	0.184	0.283
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	661	1880	1	18.33	20.20	1.538	-0.03	0.408	0.628
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	661	1880	2	18.33	20.20	1.538	-0.07	0.349	0.537
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 7	661	1880	3	18.33	20.20	1.538	0.04	0.311	0.478
	GSM1900	GPRS 3 Tx slots	Left Side	5mm	Ant 1	DSI 7	661	1880	1	18.33	20.20	1.538	0.06	0.125	0.192
	GSM1900	GPRS 3 Tx slots	Top Side	5mm	Ant 1	DSI 7	661	1880	1	18.33	20.20	1.538	-0.07	0.293	0.449
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 2	DSI 7	512	1850.2	1	25.73	27.00	1.34	-0.18	0.404	0.541
26	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 2	DSI 7	512	1850.2	1	25.73	27.00	1.34	-0.01	0.548	0.734
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 2	DSI 7	512	1850.2	2	25.73	27.00	1.34	-0.07	0.447	0.599
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 2	DSI 7	512	1850.2	3	25.73	27.00	1.34	0.05	0.362	0.485
	GSM1900	GPRS 3 Tx slots	Left Side	5mm	Ant 2	DSI 7	512	1850.2	1	25.73	27.00	1.34	-0.17	0.085	0.114
	GSM1900	GPRS 3 Tx slots	Right Side	5mm	Ant 2	DSI 7	512	1850.2	1	25.73	27.00	1.34	0.15	0.194	0.260
	GSM1900	GPRS 3 Tx slots	Bottom Side	5mm	Ant 2	DSI 7	512	1850.2	1	25.73	27.00	1.34	-0.09	0.539	0.722

[WCDMA SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 7	9400	1880	1	14.27	15.00	1.183	-0.03	0.279	0.330
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	9400	1880	1	14.27	15.00	1.183	0.09	0.523	0.619
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	9400	1880	2	14.27	15.00	1.183	-0.07	0.417	0.493
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	9400	1880	3	14.27	15.00	1.183	0.05	0.448	0.530
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 7	9400	1880	1	14.27	15.00	1.183	-0.12	0.182	0.215
	WCDMA II	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 7	9400	1880	1	14.27	15.00	1.183	0.03	0.396	0.468
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 7	9400	1880	1	22.51	23.50	1.256	-0.17	0.781	0.981
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 7	9262	1852.4	1	22.47	23.50	1.268	-0.14	0.642	0.814
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 7	9538	1907.6	1	22.44	23.50	1.276	-0.17	0.857	1.094
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	9400	1880	1	22.51	23.50	1.256	-0.03	0.932	1.171
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	9262	1852.4	1	22.47	23.50	1.268	0.08	0.785	0.995
27	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	9538	1907.6	1	22.44	23.50	1.276	-0.05	1.010	1.289
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	9538	1907.6	2	22.44	23.50	1.276	-0.07	0.940	1.199
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	9538	1907.6	3	22.44	23.50	1.276	-0.04	0.963	1.229
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	Ant 2	DSI 7	9400	1880	1	22.51	23.50	1.256	-0.07	0.172	0.216
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	Ant 2	DSI 7	9400	1880	1	22.51	23.50	1.256	-0.06	0.413	0.519
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	9400	1880	1	22.51	23.50	1.256	-0.01	1.000	1.256
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	9262	1852.4	1	22.47	23.50	1.268	-0.19	0.914	1.159
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	9538	1907.6	1	22.44	23.50	1.276	0.10	0.984	1.256
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 7	1413	1732.6	1	15.12	15.90	1.197	-0.17	0.201	0.241
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	1413	1732.6	1	15.12	15.90	1.197	0.03	0.524	0.627
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	1413	1732.6	2	15.12	15.90	1.197	-0.07	0.517	0.619
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	1413	1732.6	3	15.12	15.90	1.197	-0.04	0.424	0.508
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 7	1413	1732.6	1	15.12	15.90	1.197	0.14	0.137	0.164
	WCDMA IV	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 7	1413	1732.6	1	15.12	15.90	1.197	0.00	0.326	0.390
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 7	1413	1732.6	1	20.79	22.10	1.352	-0.19	0.524	0.708
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	1413	1732.6	1	20.79	22.10	1.352	-0.11	0.640	0.865
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	1312	1712.4	1	20.67	22.10	1.39	0.09	0.558	0.776
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 7	1513	1752.6	1	20.72	22.10	1.374	-0.01	0.712	0.978
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	Ant 2	DSI 7	1413	1732.6	1	20.79	22.10	1.352	-0.13	0.108	0.146
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	Ant 2	DSI 7	1413	1732.6	1	20.79	22.10	1.352	-0.16	0.239	0.323



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	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1413	1732.6	1	20.79	22.10	1.352	0.02	0.821	1.110
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1312	1712.4	1	20.67	22.10	1.39	-0.12	0.706	0.981
28	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1513	1752.6	1	20.72	22.10	1.374	0.16	0.925	1.271
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1513	1752.6	2	20.72	22.10	1.374	-0.04	0.743	1.021
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	Ant 2	DSI 7	1513	1752.6	3	20.72	22.10	1.374	-0.05	0.843	1.158
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 7	4182	836.4	1	23.32	24.00	1.169	0.13	0.336	0.393
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4182	836.4	1	23.32	24.00	1.169	0.17	0.854	0.998
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4132	826.4	1	23.08	24.00	1.236	-0.04	0.827	1.022
29	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4233	846.6	1	23.17	24.00	1.211	-0.02	0.980	1.187
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4233	846.6	2	23.17	24.00	1.211	-0.04	0.979	1.186
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 7	4233	846.6	3	23.17	24.00	1.211	0.07	0.972	1.177
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 0	DSI 7	4182	836.4	1	23.32	24.00	1.169	-0.14	0.281	0.328
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	Ant 0	DSI 7	4182	836.4	1	23.32	24.00	1.169	-0.13	0.402	0.470
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 7	4182	836.4	1	18.75	19.50	1.189	0.01	0.167	0.199
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	4182	836.4	1	18.75	19.50	1.189	0.12	0.527	0.627
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	4182	836.4	2	18.75	19.50	1.189	-0.07	0.390	0.464
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 7	4182	836.4	3	18.75	19.50	1.189	0.04	0.393	0.467
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	Ant 1	DSI 7	4182	836.4	1	18.75	19.50	1.189	0.08	0.148	0.176
	WCDMA V	RMC 12.2Kbps	Top Side	5mm	Ant 1	DSI 7	4182	836.4	1	18.75	19.50	1.189	-0.13	0.282	0.335

[LTE SAR]

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 7	18900	1880	1	17.48	18.30	1.208			-0.12	0.479	0.579
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 0	DSI 7	18900	1880	1	17.46	18.30	1.213			-0.00	0.311	0.377
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	18900	1880	1	17.48	18.30	1.208			-0.09	1.040	1.256
30	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	18700	1860	1	17.44	18.30	1.219			-0.05	1.050	1.280
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	18700	1860	2	17.44	18.30	1.219			-0.04	0.757	0.923
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	18700	1860	3	17.44	18.30	1.219			0.09	0.832	1.014
	LTE Band 2C	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	18700+18898	1860+1879.8	1	17.29	18.30	1.262			0.04	0.861	1.087
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	19100	1900	1	17.36	18.30	1.242			0.09	0.944	1.172
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	18900	1880	1	17.46	18.30	1.213			-0.08	0.660	0.801
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	18700	1860	1	17.39	18.30	1.233			0.08	0.688	0.848
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	19100	1900	1	17.40	18.30	1.23			-0.15	0.610	0.750
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 0	DSI 7	19100	1900	1	17.31	18.30	1.256			-0.04	0.657	0.825
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 7	18900	1880	1	17.48	18.30	1.208			-0.04	0.465	0.562
	LTE Band 2	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI 7	18900	1880	1	17.46	18.30	1.213			-0.03	0.302	0.366
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	18900	1880	1	17.48	18.30	1.208			0.04	0.777	0.939
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	18700	1860	1	17.44	18.30	1.219			-0.13	0.766	0.934
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	19100	1900	1	17.36	18.30	1.242			-0.14	0.685	0.851
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI 7	18900	1880	1	17.46	18.30	1.213			0.12	0.497	0.603
	LTE Band 2	20M	QPSK	100	0	Bottom Side	5mm	Ant 0	DSI 7	19100	1900	1	17.31	18.30	1.256			-0.04	0.512	0.643
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	18900	1880	1	14.12	15.50	1.374			0.17	0.292	0.401
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 7	18900	1880	1	14.06	15.50	1.393			-0.18	0.190	0.265
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	18900	1880	1	14.12	15.50	1.374			-0.05	0.446	0.613
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 7	18900	1880	1	14.06	15.50	1.393			-0.08	0.288	0.401
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 7	18900	1880	1	14.12	15.50	1.374			-0.00	0.184	0.253
	LTE Band 2	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 7	18900	1880	1	14.06	15.50	1.393			-0.17	0.115	0.160
	LTE Band 2	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	18900	1880	1	14.12	15.50	1.374			0.04	0.453	0.622
	LTE Band 2	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	18900	1880	2	14.12	15.50	1.374			-0.07	0.379	0.521
	LTE Band 2	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	18900	1880	3	14.12	15.50	1.374			-0.04	0.424	0.583
	LTE Band 2C	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	18900+19098	1880+1899.8	1	14.02	15.50	1.406			0.09	0.433	0.609
	LTE Band 2	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI 7	18900	1880	1	14.06	15.50	1.393			-0.09	0.283	0.394
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	18900	1880	1	22.07	22.70	1.156			0.16	0.836	0.966
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	18700	1860	1	22.02	22.70	1.169			-0.06	0.724	0.846
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	19100	1900	1	21.98	22.70	1.18			0.14	0.955	1.127
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 7	18900	1880	1	21.67	22.70	1.268			-0.16	0.543	0.689
	LTE Band 2	20M	QPSK	100	0	Front	5mm	Ant 2	DSI 7	18700	1860	1	21.56	22.70	1.3			-0.04	0.572	0.744
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	18900	1880	1	22.07	22.70	1.156			0.18	0.888	1.027
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	18700	1860	1	22.02	22.70	1.169			0.08	0.782	0.914
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	19100	1900	1	21.98	22.70	1.18			0.18	0.988	1.166
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	18900	1880	1	21.67	22.70	1.268			-0.10	0.587	0.744
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 7	18700	1860	1	21.56	22.70	1.3			-0.01	0.601	0.781
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 7	18900	1880	1	22.07	22.70	1.156			0.19	0.166	0.192
	LTE Band 2	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 7	18900	1880	1	21.67	22.70	1.268			-0.03	0.114	0.145
	LTE Band 2	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 7	18900	1880	1	22.07	22.70	1.156			0.11	0.408	0.472
	LTE Band 2	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 7	18900	1880	1	21.67	22.70	1.268			0.03	0.259	0.328
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	18900	1880	1	22.07	22.70	1.156			0.09	1.040	1.202
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	18700	1860	1	22.02	22.70	1.169			0.08	1.020	1.192
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	19100	1900	1	21.98	22.70	1.18			0.08	1.080	1.274



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	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	19100	1900	2	21.98	22.70	1.18			-0.09	0.829	0.978
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	19100	1900	3	21.98	22.70	1.18			0.01	0.797	0.940
	LTE Band 2C	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	19100+18902	1900+1919.8	1	21.85	22.70	1.216			0.05	0.910	1.107
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	18900	1880	1	21.67	22.70	1.268			-0.12	0.680	0.862
	LTE Band 2	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI 7	18700	1860	1	21.56	22.70	1.3			-0.07	0.692	0.900
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 9	DSI 7	18900	1880	1	15.55	16.60	1.274			0.12	0.133	0.169
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 9	DSI 7	18900	1880	1	15.48	16.60	1.294			0.07	0.086	0.111
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 7	18900	1880	1	15.55	16.60	1.274			-0.06	0.208	0.265
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 9	DSI 7	18900	1880	1	15.48	16.60	1.294			0.13	0.132	0.171
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	18900	1880	1	15.55	16.60	1.274			0.01	0.494	0.629
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	18900	1880	2	15.55	16.60	1.274			-0.07	0.367	0.468
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	18900	1880	3	15.55	16.60	1.274			0.04	0.273	0.348
	LTE Band 2C	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	18900+19098	1880+1899.8	1	15.45	16.60	1.303			0.04	0.466	0.607
	LTE Band 2	20M	QPSK	50	0	Left Side	5mm	Ant 9	DSI 7	18900	1880	1	15.48	16.60	1.294			-0.11	0.242	0.313
	LTE Band 2	20M	QPSK	1	0	Top Side	5mm	Ant 9	DSI 7	18900	1880	1	15.55	16.60	1.274			-0.15	0.001	0.001
	LTE Band 2	20M	QPSK	50	0	Top Side	5mm	Ant 9	DSI 7	18900	1880	1	15.48	16.60	1.294			-0.07	0.001	0.001
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 7	21100	2535	1	20.31	21.00	1.172			0.13	0.411	0.482
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 0	DSI 7	21100	2535	1	20.11	21.00	1.227			-0.12	0.267	0.328
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	21100	2535	1	20.31	21.00	1.172			0.11	0.939	1.101
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	20850	2510	1	20.27	21.00	1.183			0.14	0.988	1.169
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	21350	2560	1	20.21	21.00	1.199			-0.05	1.070	1.283
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	21350	2560	2	20.21	21.00	1.199			-0.01	0.800	0.959
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	21350	2560	3	20.21	21.00	1.199			0.07	0.775	0.929
	LTE Band 7C	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	21350+21152	2560+2540.2	1	20.18	21.00	1.208			0.09	0.835	1.009
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	21100	2535	1	20.11	21.00	1.227			-0.05	0.611	0.750
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 0	DSI 7	21100	2535	1	20.05	21.00	1.245			0.13	0.606	0.754
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 7	21100	2535	1	20.31	21.00	1.172			-0.12	0.118	0.138
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI 7	21100	2535	1	20.11	21.00	1.227			-0.17	0.072	0.088
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	21100	2535	1	20.31	21.00	1.172			0.19	0.764	0.895
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	20850	2510	1	20.27	21.00	1.183			-0.07	0.841	0.995
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	21350	2560	1	20.21	21.00	1.199			-0.02	0.879	1.054
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI 7	21100	2535	1	20.11	21.00	1.227			0.06	0.459	0.563
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	Ant 0	DSI 7	21100	2535	1	20.05	21.00	1.245			0.17	0.467	0.581
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	21100	2535	1	13.45	14.70	1.334			0.15	0.280	0.374
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 7	21100	2535	1	13.37	14.70	1.358			-0.08	0.181	0.246
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	21100	2535	1	13.45	14.70	1.334			0.08	0.452	0.603
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 7	21100	2535	1	13.37	14.70	1.358			-0.17	0.282	0.383
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 7	21100	2535	1	13.45	14.70	1.334			0.19	0.132	0.176
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 7	21100	2535	1	13.37	14.70	1.358			-0.09	0.084	0.114
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	21100	2535	1	13.45	14.70	1.334			0.16	0.462	0.616
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	21100	2535	2	13.45	14.70	1.334			-0.02	0.309	0.412
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	21100	2535	3	13.45	14.70	1.334			-0.05	0.351	0.468
	LTE Band 7C	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	21100+20902	2535+2515.2	1	13.35	14.70	1.365			0.06	0.426	0.581
	LTE Band 7	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI 7	21100	2535	1	13.37	14.70	1.358			-0.06	0.289	0.392
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	21100	2535	1	21.21	22.10	1.227			-0.15	0.634	0.778
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 7	21100	2535	1	21.20	22.10	1.23			0.14	0.403	0.496
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	21100	2535	1	21.21	22.10	1.227			0.05	0.835	1.025
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	20850	2510	1	21.17	22.10	1.239			-0.07	0.817	1.012
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	21350	2560	1	21.13	22.10	1.25			-0.05	0.829	1.036
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	21100	2535	1	21.20	22.10	1.23			0.10	0.538	0.662
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 7	21100	2535	1	21.03	22.10	1.279			0.13	0.538	0.688
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 7	21100	2535	1	21.21	22.10	1.227			0.00	0.121	0.148
	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 7	21100	2535	1	21.20	22.10	1.23			0.04	0.079	0.097
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 7	21100	2535	1	21.21	22.10	1.227			0.19	0.229	0.281
	LTE Band 7	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 7	21100	2535	1	21.20	22.10	1.23			0.15	0.145	0.178
31	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	21100	2535	1	21.21	22.10	1.227			0.14	1.050	1.288
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	21100	2535	2	21.21	22.10	1.227			-0.07	0.836	1.026
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	21100	2535	3	21.21	22.10	1.227			-0.06	1.040	1.276
	LTE Band 7C	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	21100+20902	2535+2515.2	1	21.12	22.10	1.253			0.05	0.903	1.131
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	20850	2510	1	21.17	22.10	1.239			0.05	1.030	1.276
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	21350	2560	1	21.13	22.10	1.25			0.17	1.010	1.262
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	21100	2535	1	21.20	22.10	1.23			0.14	0.689	0.847
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	20850	2510	1	21.10	22.10	1.259			-0.09	0.695	0.875
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	21350	2560	1	21.07	22.10	1.268			-0.12	0.664	0.842
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI 7	21100	2535	1	21.03	22.10	1.279			-0.11	0.683	0.874
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 9	DSI 7	21100	2535	1	11.90	12.90	1.259			-0.11	0.162	0.204
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 9	DSI 7	21100	2535	1	11.91	12.90	1.256			0.03	0.100	0.126
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 7	21100	2535	1	11.90	12.90	1.259			-0.19	0.237	0.298
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 9	DSI 7	21100	2535	1	11.91	12.90	1.256			-0.09	0.152	0.191
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	21100	2535	1	11.90	12.90	1.259			0.01	0.500	0.629
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	21100	2535	2	11.90	12.90	1.259			-0.01	0.416	0.524
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	21100	2535	3	11.90	12.90	1.259			0.01	0.347	0.437
	LTE Band 7C	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	21										



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	LTE Band 7	20M	QPSK	50	0	Left Side	5mm	Ant 9	DSI 7	21100	2535	1	11.91	12.90	1.256			0.17	0.325	0.408
	LTE Band 7	20M	QPSK	1	0	Top Side	5mm	Ant 9	DSI 7	21100	2535	1	11.90	12.90	1.259			0.02	0.006	0.008
	LTE Band 7	20M	QPSK	50	0	Top Side	5mm	Ant 9	DSI 7	21100	2535	1	11.91	12.90	1.256			0.13	0.003	0.004
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 7	23095	707.5	1	23.22	24.00	1.197			0.04	0.166	0.199
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 7	23095	707.5	1	22.17	23.00	1.211			0.13	0.112	0.136
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	23095	707.5	1	23.22	24.00	1.197			0.09	0.447	0.535
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	23095	707.5	2	23.22	24.00	1.197			-0.07	0.401	0.480
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	23095	707.5	3	23.22	24.00	1.197			-0.01	0.355	0.425
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 7	23095	707.5	1	22.17	23.00	1.211			-0.04	0.308	0.373
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 7	23095	707.5	1	23.22	24.00	1.197			0.12	0.265	0.317
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI 7	23095	707.5	1	22.17	23.00	1.211			0.06	0.192	0.233
	LTE Band 12	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	23095	707.5	1	23.22	24.00	1.197			-0.11	0.248	0.297
	LTE Band 12	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI 7	23095	707.5	1	22.17	23.00	1.211			0.16	0.176	0.213
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	23095	707.5	1	20.03	20.80	1.194			-0.19	0.173	0.207
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 7	23095	707.5	1	20.01	20.80	1.199			0.17	0.123	0.147
32	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	23095	707.5	1	20.03	20.80	1.194			0.12	0.521	0.622
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	23095	707.5	2	20.03	20.80	1.194			-0.01	0.414	0.494
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	23095	707.5	3	20.03	20.80	1.194			-0.07	0.258	0.308
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 7	23095	707.5	1	20.01	20.80	1.199			-0.05	0.419	0.502
	LTE Band 12	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 7	23095	707.5	1	20.03	20.80	1.194			-0.17	0.222	0.265
	LTE Band 12	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 7	23095	707.5	1	20.01	20.80	1.199			-0.09	0.156	0.187
	LTE Band 12	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	23095	707.5	1	20.03	20.80	1.194			0.03	0.391	0.467
	LTE Band 12	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI 7	23095	707.5	1	20.01	20.80	1.199			-0.08	0.279	0.335
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 7	23230	782	1	22.84	24.00	1.306			0.11	0.334	0.436
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 7	23230	782	1	21.88	23.00	1.294			0.15	0.200	0.259
33	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	23230	782	1	22.84	24.00	1.306			0.04	0.765	0.999
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	23230	782	2	22.84	24.00	1.306			-0.07	0.745	0.973
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	23230	782	3	22.84	24.00	1.306			0.04	0.681	0.889
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 7	23230	782	1	21.88	23.00	1.294			-0.17	0.462	0.598
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	23230	782	1	21.72	23.00	1.343			0.01	0.629	0.845
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 7	23230	782	1	22.84	24.00	1.306			0.11	0.337	0.440
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 0	DSI 7	23230	782	1	21.88	23.00	1.294			0.08	0.201	0.260
	LTE Band 13	10M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	23230	782	1	22.84	24.00	1.306			0.10	0.467	0.610
	LTE Band 13	10M	QPSK	25	0	Bottom Side	5mm	Ant 0	DSI 7	23230	782	1	21.88	23.00	1.294			-0.17	0.283	0.366
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	23230	782	1	18.65	19.40	1.189			0.03	0.203	0.241
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 7	23230	782	1	18.63	19.40	1.194			-0.03	0.147	0.176
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	23230	782	1	18.65	19.40	1.189			0.09	0.524	0.623
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	23230	782	2	18.65	19.40	1.189			-0.04	0.392	0.466
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	23230	782	3	18.65	19.40	1.189			0.01	0.450	0.535
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 7	23230	782	1	18.63	19.40	1.194			-0.06	0.352	0.420
	LTE Band 13	10M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 7	23230	782	1	18.65	19.40	1.189			0.01	0.276	0.328
	LTE Band 13	10M	QPSK	25	0	Left Side	5mm	Ant 1	DSI 7	23230	782	1	18.63	19.40	1.194			0.12	0.189	0.226
	LTE Band 13	10M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	23230	782	1	18.65	19.40	1.189			0.12	0.409	0.486
	LTE Band 13	10M	QPSK	25	0	Top Side	5mm	Ant 1	DSI 7	23230	782	1	18.63	19.40	1.194			-0.15	0.274	0.327
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	DSI 7	26865	831.5	1	23.10	24.00	1.23			0.14	0.474	0.583
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 0	DSI 7	26865	831.5	1	22.10	23.00	1.23			-0.17	0.291	0.358
34	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	26865	831.5	1	23.10	24.00	1.23			0.01	1.050	1.292
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	26865	831.5	2	23.10	24.00	1.23			0.05	0.685	0.843
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	26865	831.5	3	23.10	24.00	1.23			-0.07	0.775	0.953
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 0	DSI 7	26865	831.5	1	22.10	23.00	1.23			-0.19	0.652	0.802
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 0	DSI 7	26865	831.5	1	22.01	23.00	1.256			0.01	0.648	0.814
	LTE Band 26	15M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 7	26865	831.5	1	23.10	24.00	1.23			-0.12	0.366	0.450
	LTE Band 26	15M	QPSK	36	0	Left Side	5mm	Ant 0	DSI 7	26865	831.5	1	22.10	23.00	1.23			-0.11	0.225	0.277
	LTE Band 26	15M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	26865	831.5	1	23.10	24.00	1.23			-0.06	0.580	0.713
	LTE Band 26	15M	QPSK	36	0	Bottom Side	5mm	Ant 0	DSI 7	26865	831.5	1	22.10	23.00	1.23			-0.13	0.362	0.445
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	26865	831.5	1	18.61	19.70	1.285			-0.07	0.197	0.253
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	DSI 7	26865	831.5	1	18.53	19.70	1.309			0.15	0.122	0.160
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	26865	831.5	1	18.61	19.70	1.285			-0.11	0.479	0.616
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	26865	831.5	2	18.61	19.70	1.285			-0.01	0.327	0.420
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	26865	831.5	3	18.61	19.70	1.285			0.07	0.383	0.492
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	DSI 7	26865	831.5	1	18.53	19.70	1.309			-0.18	0.289	0.378
	LTE Band 26	15M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 7	26865	831.5	1	18.61	19.70	1.285			-0.11	0.262	0.337
	LTE Band 26	15M	QPSK	36	0	Left Side	5mm	Ant 1	DSI 7	26865	831.5	1	18.53	19.70	1.309			0.18	0.159	0.208
	LTE Band 26	15M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	26865	831.5	1	18.61	19.70	1.285			0.12	0.330	0.424
	LTE Band 26	15M	QPSK	36	0	Top Side	5mm	Ant 1	DSI 7	26865	831.5	1	18.53	19.70	1.309			0.01	0.197	0.258
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	132322	1745	1	15.31	16.30	1.256			0.00	0.320	0.402
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 7	132322	1745	1	15.21	16.30	1.285			0.19	0.205	0.263
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	132322	1745	1	15.31	16.30	1.256			-0.12	0.492	0.618
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	132322	1745	2	15.31	16.30	1.256			-0.09	0.454	0.570
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	132322	1745	3	15.31	16.30	1.256			0.04	0.440	0.553
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	132322+132124	1745+1725.2	1	15.18	16.30	1.294			0.06	0.466	0.603
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 7	132322	1745	1	15.21	16.30	1.285			-0.04	0.322	0.414
	LTE Band 66	20M	QPSK	1	0	Left Side</														



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	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 7	132322	1745	1	15.21	16.30	1.285			0.06	0.132	0.170
	LTE Band 66	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	132322	1745	1	15.31	16.30	1.256			-0.03	0.479	0.602
	LTE Band 66	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI 7	132322	1745	1	15.21	16.30	1.285			0.08	0.317	0.407
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	132322	1745	1	21.18	21.90	1.18			0.17	0.691	0.815
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	132072	1720	1	21.09	21.90	1.205			0.17	0.579	0.698
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	132572	1770	1	21.07	21.90	1.211			0.05	0.768	0.930
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 7	132322	1745	1	21.12	21.90	1.197			0.12	0.449	0.537
	LTE Band 66	20M	QPSK	100	0	Front	5mm	Ant 2	DSI 7	132322	1745	1	20.84	21.90	1.276			-0.05	0.449	0.573
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	132322	1745	1	21.18	21.90	1.18			0.07	0.770	0.909
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	132072	1720	1	21.09	21.90	1.205			0.14	0.677	0.816
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	132572	1770	1	21.07	21.90	1.211			-0.14	0.829	1.004
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	132322	1745	1	21.12	21.90	1.197			-0.18	0.502	0.601
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 7	132322	1745	1	20.84	21.90	1.276			-0.10	0.494	0.630
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 7	132322	1745	1	21.18	21.90	1.18			-0.01	0.136	0.160
	LTE Band 66	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 7	132322	1745	1	21.12	21.90	1.197			-0.06	0.089	0.107
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 7	132322	1745	1	21.18	21.90	1.18			-0.09	0.314	0.371
	LTE Band 66	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 7	132322	1745	1	21.12	21.90	1.197			-0.14	0.200	0.239
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	132322	1745	1	21.18	21.90	1.18			0.12	0.988	1.166
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	132072	1720	1	21.09	21.90	1.205			-0.09	0.917	1.105
35	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	132572	1770	1	21.07	21.90	1.211			0.01	1.060	1.284
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	132572	1770	2	21.07	21.90	1.211			0.07	0.953	1.154
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	132572	1770	3	21.07	21.90	1.211			-0.01	0.857	1.038
	LTE Band 66C	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	132572+132374 1770+1750.2			1	21.05	21.90	1.216			0.05	0.942	1.145
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	132322	1745	1	21.12	21.90	1.197			0.08	0.634	0.759
	LTE Band 66	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI 7	132322	1745	1	20.84	21.90	1.276			0.17	0.638	0.814
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 7	40620	2593	1	21.08	21.70	1.153	62.9	1.006	-0.04	0.389	0.451
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 0	DSI 7	40620	2593	1	20.99	21.70	1.178	62.9	1.006	0.15	0.248	0.294
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	40620	2593	1	21.08	21.70	1.153	62.9	1.006	0.13	0.901	1.045
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	39750	2506	1	21.07	21.70	1.156	62.9	1.006	-0.11	0.821	0.955
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	40185	2549.5	1	21.05	21.70	1.161	62.9	1.006	0.14	0.885	1.034
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	41055	2636.5	1	20.96	21.70	1.186	62.9	1.006	-0.12	1.010	1.205
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	41490	2680	1	20.94	21.70	1.191	62.9	1.006	0.19	1.070	1.282
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	41490	2680	2	20.94	21.70	1.191	62.9	1.006	-0.07	0.742	0.889
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 7	41490	2680	3	20.94	21.70	1.191	62.9	1.006	-0.04	0.644	0.772
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	40620	2593	1	20.99	21.70	1.178	62.9	1.006	-0.10	0.574	0.680
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	39750	2506	1	20.92	21.70	1.197	62.9	1.006	-0.09	0.531	0.639
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	40185	2549.5	1	20.90	21.70	1.202	62.9	1.006	-0.18	0.574	0.694
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	41055	2636.5	1	20.90	21.70	1.202	62.9	1.006	-0.09	0.658	0.796
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 7	41490	2680	1	20.79	21.70	1.233	62.9	1.006	-0.10	0.663	0.822
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 0	DSI 7	40620	2593	1	20.73	21.70	1.25	62.9	1.006	-0.05	0.565	0.710
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 0	DSI 7	40620	2593	1	21.08	21.70	1.153	62.9	1.006	-0.05	0.094	0.109
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 0	DSI 7	40620	2593	1	20.99	21.70	1.178	62.9	1.006	0.18	0.059	0.070
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	40620	2593	1	21.08	21.70	1.153	62.9	1.006	-0.19	0.762	0.884
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	39750	2506	1	21.07	21.70	1.156	62.9	1.006	-0.06	0.641	0.745
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	40185	2549.5	1	21.05	21.70	1.161	62.9	1.006	0.14	0.744	0.869
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	41055	2636.5	1	20.96	21.70	1.186	62.9	1.006	0.17	0.861	1.027
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 0	DSI 7	41490	2680	1	20.94	21.70	1.191	62.9	1.006	-0.13	0.949	1.137
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 0	DSI 7	40620	2593	1	20.99	21.70	1.178	62.9	1.006	0.19	0.496	0.588
	LTE Band 41	20M	QPSK	100	0	Bottom Side	5mm	Ant 0	DSI 7	40620	2593	1	20.73	21.70	1.25	62.9	1.006	0.18	0.491	0.617
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 7	40620	2593	1	15.65	16.70	1.274	62.9	1.006	0.05	0.253	0.324
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 7	40620	2593	1	15.59	16.70	1.291	62.9	1.006	-0.17	0.165	0.214
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 7	40620	2593	1	15.65	16.70	1.274	62.9	1.006	0.00	0.447	0.573
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 7	40620	2593	1	15.59	16.70	1.291	62.9	1.006	-0.00	0.291	0.378
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 1	DSI 7	40620	2593	1	15.65	16.70	1.274	62.9	1.006	-0.14	0.122	0.156
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 1	DSI 7	40620	2593	1	15.59	16.70	1.291	62.9	1.006	-0.06	0.075	0.097
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	40620	2593	1	15.65	16.70	1.274	62.9	1.006	0.05	0.490	0.628
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	39750	2506	1	15.33	16.70	1.371	62.9	1.006	-0.11	0.452	0.623
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	40185	2549.5	1	15.41	16.70	1.346	62.9	1.006	0.03	0.450	0.609
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	41055	2636.5	1	15.42	16.70	1.343	62.9	1.006	-0.08	0.333	0.450
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	41490	2680	1	15.36	16.70	1.361	62.9	1.006	-0.01	0.282	0.386
	LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 1	DSI 7	40620	2593	1	15.59	16.70	1.291	62.9	1.006	0.09	0.313	0.407
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	40620	2593	2	15.65	16.70	1.274	62.9	1.006	-0.01	0.329	0.422
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 1	DSI 7	40620	2593	3	15.65	16.70	1.274	62.9	1.006	0.04	0.350	0.449
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	40620	2593	1	22.58	23.80	1.324	62.9	1.006	0.04	0.489	0.651
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	39750	2506	1	22.56	23.80	1.33	62.9	1.006	0.01	0.477	0.638
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	40185	2549.5	1	22.49	23.80	1.352	62.9	1.006	0.09	0.469	0.638
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	41055	2636.5	1	22.51	23.80	1.346	62.9	1.006	-0.15	0.534	0.723
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 7	41490	2680	1	22.55	23.80	1.334	62.9	1.006	0.04	0.477	0.640
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 7	40620	2593	1	22.20	23.00	1.202	62.9	1.006	0.08	0.321	0.388
	LTE Band 41	20M	QPSK																	



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	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 7	41490	2680	1	22.55	23.80	1.334	62.9	1.006	0.01	0.760	1.020
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	40620	2593	1	22.20	23.00	1.202	62.9	1.006	0.00	0.498	0.602
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	39750	2506	1	22.11	23.00	1.227	62.9	1.006	0.15	0.454	0.560
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	40185	2549.5	1	22.02	23.00	1.253	62.9	1.006	-0.19	0.463	0.584
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	41055	2636.5	1	22.08	23.00	1.236	62.9	1.006	-0.13	0.526	0.654
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 7	41490	2680	1	22.10	23.00	1.23	62.9	1.006	0.10	0.465	0.575
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 7	40620	2593	1	22.12	23.00	1.225	62.9	1.006	0.19	0.438	0.540
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 2	DSI 7	40620	2593	1	22.58	23.80	1.324	62.9	1.006	0.15	0.097	0.129
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 2	DSI 7	40620	2593	1	22.20	23.00	1.202	62.9	1.006	0.13	0.062	0.075
	LTE Band 41	20M	QPSK	1	0	Right Side	5mm	Ant 2	DSI 7	40620	2593	1	22.58	23.80	1.324	62.9	1.006	0.12	0.228	0.304
	LTE Band 41	20M	QPSK	50	0	Right Side	5mm	Ant 2	DSI 7	40620	2593	1	22.20	23.00	1.202	62.9	1.006	0.05	0.143	0.173
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	40620	2593	1	22.58	23.80	1.324	62.9	1.006	0.17	0.859	1.144
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	39750	2506	1	22.56	23.80	1.33	62.9	1.006	-0.07	0.736	0.985
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	40185	2549.5	1	22.49	23.80	1.352	62.9	1.006	-0.18	0.768	1.045
36	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	41055	2636.5	1	22.51	23.80	1.346	62.9	1.006	0.04	0.950	1.286
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	41055	2636.5	2	22.51	23.80	1.346	62.9	1.006	-0.07	0.852	1.154
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	41055	2636.5	3	22.51	23.80	1.346	62.9	1.006	0.04	0.837	1.133
	LTE Band 41	20M	QPSK	1	0	Bottom Side	5mm	Ant 2	DSI 7	41490	2680	1	22.55	23.80	1.334	62.9	1.006	0.02	0.920	1.235
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	40620	2593	1	22.20	23.00	1.202	62.9	1.006	-0.16	0.565	0.683
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	39750	2506	1	22.11	23.00	1.227	62.9	1.006	0.03	0.474	0.585
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	40185	2549.5	1	22.02	23.00	1.253	62.9	1.006	-0.12	0.502	0.633
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	41055	2636.5	1	22.08	23.00	1.236	62.9	1.006	0.06	0.606	0.754
	LTE Band 41	20M	QPSK	50	0	Bottom Side	5mm	Ant 2	DSI 7	41490	2680	1	22.10	23.00	1.23	62.9	1.006	0.11	0.589	0.729
	LTE Band 41	20M	QPSK	100	0	Bottom Side	5mm	Ant 2	DSI 7	40620	2593	1	22.12	23.00	1.225	62.9	1.006	0.06	0.562	0.693
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 9	DSI 7	40620	2593	1	14.46	15.70	1.33	62.9	1.006	0.08	0.136	0.182
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 9	DSI 7	40620	2593	1	14.44	15.70	1.337	62.9	1.006	-0.06	0.087	0.117
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 7	40620	2593	1	14.46	15.70	1.33	62.9	1.006	-0.06	0.220	0.294
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 9	DSI 7	40620	2593	1	14.44	15.70	1.337	62.9	1.006	-0.08	0.145	0.195
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	40620	2593	1	14.46	15.70	1.33	62.9	1.006	0.03	0.468	0.626
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	40620	2593	2	14.46	15.70	1.33	62.9	1.006	0.01	0.480	0.642
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	40620	2593	3	14.46	15.70	1.33	62.9	1.006	-0.04	0.384	0.514
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	39750	2506	1	14.40	15.70	1.349	62.9	1.006	-0.16	0.431	0.585
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	40185	2549.5	1	14.42	15.70	1.343	62.9	1.006	-0.12	0.461	0.623
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	41055	2636.5	1	14.45	15.70	1.334	62.9	1.006	0.14	0.443	0.595
	LTE Band 41	20M	QPSK	1	0	Left Side	5mm	Ant 9	DSI 7	41490	2680	1	14.42	15.70	1.343	62.9	1.006	-0.15	0.380	0.513
	LTE Band 41	20M	QPSK	50	0	Left Side	5mm	Ant 9	DSI 7	40620	2593	1	14.44	15.70	1.337	62.9	1.006	0.18	0.304	0.409
	LTE Band 41	20M	QPSK	1	0	Top Side	5mm	Ant 9	DSI 7	40620	2593	1	14.46	15.70	1.33	62.9	1.006	-0.11	0.008	0.011
	LTE Band 41	20M	QPSK	50	0	Top Side	5mm	Ant 9	DSI 7	40620	2593	1	14.44	15.70	1.337	62.9	1.006	-0.02	0.005	0.007
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 7	42590	3500	1	16.96	18.10	1.3	62.9	1.006	-0.02	0.184	0.241
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 7	42590	3500	1	16.87	18.10	1.327	62.9	1.006	-0.19	0.116	0.155
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 7	42590	3500	1	16.96	18.10	1.3	62.9	1.006	-0.13	0.282	0.369
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 4	DSI 7	42590	3500	1	16.87	18.10	1.327	62.9	1.006	0.10	0.183	0.244
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 4	DSI 7	42590	3500	1	16.96	18.10	1.3	62.9	1.006	-0.07	0.046	0.060
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 4	DSI 7	42590	3500	1	16.87	18.10	1.327	62.9	1.006	-0.02	0.028	0.037
	LTE Band 42	20M	QPSK	1	0	Right Side	5mm	Ant 4	DSI 7	42590	3500	1	16.96	18.10	1.3	62.9	1.006	-0.18	0.050	0.065
	LTE Band 42	20M	QPSK	50	0	Right Side	5mm	Ant 4	DSI 7	42590	3500	1	16.87	18.10	1.327	62.9	1.006	-0.13	0.032	0.043
37	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	42590	3500	1	16.96	18.10	1.3	62.9	1.006	0.07	0.477	0.624
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	42590	3500	2	16.96	18.10	1.3	62.9	1.006	0.02	0.294	0.384
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	42590	3500	3	16.96	18.10	1.3	62.9	1.006	0.06	0.333	0.435
	LTE Band 42C	20M	QPSK	1	0	Top Side	5mm	Ant 4	DSI 7	42590+42788	3500+3519.8	1	16.85	18.10	1.334	62.9	1.006	0.07	0.451	0.605
	LTE Band 42	20M	QPSK	50	0	Top Side	5mm	Ant 4	DSI 7	42590	3500	1	16.87	18.10	1.327	62.9	1.006	-0.11	0.319	0.426
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 7	DSI 7	42590	3500	1	17.41	18.10	1.172	62.9	1.006	0.13	0.329	0.388
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 7	42590	3500	1	17.32	18.10	1.197	62.9	1.006	-0.15	0.209	0.252
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 7	42590	3500	1	17.41	18.10	1.172	62.9	1.006	-0.02	0.528	0.623
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 7	42590	3500	2	17.41	18.10	1.172	62.9	1.006	-0.07	0.442	0.521
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 7	42590	3500	3	17.41	18.10	1.172	62.9	1.006	0.06	0.494	0.582
	LTE Band 42C	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 7	42590+42788	3500+3519.8	1	17.36	18.10	1.186	62.9	1.006	0.09	0.488	0.582
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 7	42590	3500	1	17.32	18.10	1.197	62.9	1.006	-0.18	0.337	0.406
	LTE Band 42	20M	QPSK	1	0	Left Side	5mm	Ant 7	DSI 7	42590	3500	1	17.41	18.10	1.172	62.9	1.006	-0.13	0.445	0.525
	LTE Band 42	20M	QPSK	50	0	Left Side	5mm	Ant 7	DSI 7	42590	3500	1	17.32	18.10	1.197	62.9	1.006	0.12	0.282	0.340
	LTE Band 42	20M	QPSK	1	0	Top Side	5mm	Ant 7	DSI 7	42590	3500	1	17.41	18.10	1.172	62.9	1.006	-0.17	0.065	0.077
	LTE Band 42	20M	QPSK	50	0	Top Side	5mm	Ant 7	DSI 7	42590	3500	1	17.32	18.10	1.197	62.9	1.006	-0.05	0.046	0.055



【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 1	DSI 7	376000	1880	1	14.79	15.70	1.233			-0.13	0.239	0.295
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 1	DSI 7	376000	1880	1	14.72	15.70	1.253			0.09	0.235	0.294
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	376000	1880	1	14.79	15.70	1.233			0.07	0.502	0.619
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	376000	1880	2	14.79	15.70	1.233			0.04	0.345	0.425
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	376000	1880	3	14.79	15.70	1.233			-0.07	0.448	0.552
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 1	DSI 7	376000	1880	1	14.72	15.70	1.253			-0.14	0.408	0.511
	FR1 n2	20M	BPSK	1	1	Left Side	5mm	Ant 1	DSI 7	376000	1880	1	14.79	15.70	1.233			-0.01	0.150	0.185
	FR1 n2	20M	BPSK	50	28	Left Side	5mm	Ant 1	DSI 7	376000	1880	1	14.72	15.70	1.253			0.03	0.155	0.194
	FR1 n2	20M	BPSK	1	1	Top Side	5mm	Ant 1	DSI 7	376000	1880	1	14.79	15.70	1.233			-0.03	0.368	0.454
	FR1 n2	20M	BPSK	50	28	Top Side	5mm	Ant 1	DSI 7	376000	1880	1	14.72	15.70	1.253			0.00	0.332	0.416
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	DSI 7	376000	1880	1	22.65	23.70	1.274			0.08	0.703	0.896
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	DSI 7	372000	1860	1	22.59	23.70	1.291			-0.01	0.674	0.870
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	DSI 7	380000	1900	1	22.56	23.70	1.3			0.02	0.681	0.885
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	DSI 7	376000	1880	1	22.64	23.70	1.276			-0.11	0.708	0.903
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	DSI 7	372000	1860	1	22.45	23.70	1.334			0.05	0.672	0.896
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	DSI 7	380000	1900	1	22.46	23.70	1.33			0.07	0.688	0.915
	FR1 n2	20M	BPSK	100	0	Front	5mm	Ant 2	DSI 7	376000	1880	1	22.61	23.50	1.227			0.02	0.691	0.848
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	DSI 7	376000	1880	1	22.65	23.70	1.274			0.00	0.816	1.040
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	DSI 7	372000	1860	1	22.59	23.70	1.291			-0.07	0.814	1.051
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	DSI 7	380000	1900	1	22.56	23.70	1.3			-0.02	0.807	1.049
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 7	376000	1880	1	22.64	23.70	1.276			0.10	0.824	1.051
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 7	372000	1860	1	22.45	23.70	1.334			0.03	0.654	0.872
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 7	380000	1900	1	22.46	23.70	1.33			-0.10	0.871	1.158
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 2	DSI 7	376000	1880	1	22.61	23.50	1.227			-0.10	0.686	0.842
	FR1 n2	20M	BPSK	1	1	Left Side	5mm	Ant 2	DSI 7	376000	1880	1	22.65	23.70	1.274			-0.09	0.134	0.171
	FR1 n2	20M	BPSK	50	28	Left Side	5mm	Ant 2	DSI 7	376000	1880	1	22.64	23.70	1.276			0.13	0.132	0.168
	FR1 n2	20M	BPSK	1	1	Right Side	5mm	Ant 2	DSI 7	376000	1880	1	22.65	23.70	1.274			0.16	0.333	0.424
	FR1 n2	20M	BPSK	50	28	Right Side	5mm	Ant 2	DSI 7	376000	1880	1	22.64	23.70	1.276			-0.09	0.300	0.383
	FR1 n2	20M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI 7	376000	1880	1	22.65	23.70	1.274			0.12	0.889	1.133
	FR1 n2	20M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI 7	372000	1860	1	22.59	23.70	1.291			-0.04	0.768	0.991
	FR1 n2	20M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI 7	380000	1900	1	22.56	23.70	1.3			0.12	0.955	1.242
	FR1 n2	20M	BPSK	50	28	Bottom Side	5mm	Ant 2	DSI 7	376000	1880	1	22.64	23.70	1.276			-0.04	0.949	1.211
	FR1 n2	20M	BPSK	50	28	Bottom Side	5mm	Ant 2	DSI 7	372000	1860	1	22.45	23.70	1.334			-0.13	0.786	1.049
38	FR1 n2	20M	BPSK	50	28	Bottom Side	5mm	Ant 2	DSI 7	380000	1900	1	22.46	23.70	1.33			0.01	0.956	1.271
	FR1 n2	20M	BPSK	50	28	Bottom Side	5mm	Ant 2	DSI 7	380000	1900	2	22.46	23.70	1.33			-0.07	0.754	1.003
	FR1 n2	20M	BPSK	50	28	Bottom Side	5mm	Ant 2	DSI 7	380000	1900	3	22.46	23.70	1.33			0.08	0.840	1.117
	FR1 n2	20M	BPSK	100	0	Bottom Side	5mm	Ant 2	DSI 7	376000	1880	1	22.61	23.50	1.227			-0.01	0.812	0.996
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 1	DSI 7	507000	2535	1	14.43	15.50	1.279			0.07	0.237	0.303
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 1	DSI 7	507000	2535	1	14.39	15.50	1.291			0.14	0.265	0.342
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	507000	2535	1	14.43	15.50	1.279			0.04	0.442	0.565
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI 7	507000	2535	1	14.39	15.50	1.291			-0.08	0.485	0.626
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI 7	507000	2535	2	14.39	15.50	1.291			-0.01	0.450	0.581
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI 7	507000	2535	3	14.39	15.50	1.291			0.07	0.431	0.556
	FR1 n7	50M	BPSK	1	1	Left Side	5mm	Ant 1	DSI 7	507000	2535	1	14.43	15.50	1.279			-0.15	0.105	0.134
	FR1 n7	50M	BPSK	135	68	Left Side	5mm	Ant 1	DSI 7	507000	2535	1	14.39	15.50	1.291			0.16	0.107	0.138
	FR1 n7	50M	BPSK	1	1	Top Side	5mm	Ant 1	DSI 7	507000	2535	1	14.43	15.50	1.279			-0.04	0.408	0.522
	FR1 n7	50M	BPSK	135	68	Top Side	5mm	Ant 1	DSI 7	507000	2535	1	14.39	15.50	1.291			0.13	0.391	0.505
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 2	DSI 7	507000	2535	1	21.77	22.80	1.268			-0.03	0.670	0.850
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 2	DSI 7	507000	2535	1	21.74	22.80	1.276			0.17	0.621	0.792
	FR1 n7	50M	BPSK	270	0	Front	5mm	Ant 2	DSI 7	507000	2535	1	21.61	22.80	1.315			0.16	0.488	0.642
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 2	DSI 7	507000	2535	1	21.77	22.80	1.268			-0.11	1.000	1.268
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	DSI 7	507000	2535	1	21.74	22.80	1.276			-0.16	0.994	1.268
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 2	DSI 7	507000	2535	1	21.61	22.80	1.315			0.02	0.772	1.015
	FR1 n7	50M	BPSK	1	1	Left Side	5mm	Ant 2	DSI 7	507000	2535	1	21.77	22.80	1.268			-0.00	0.129	0.164
	FR1 n7	50M	BPSK	135	68	Left Side	5mm	Ant 2	DSI 7	507000	2535	1	21.74	22.80	1.276			-0.13	0.118	0.151
	FR1 n7	50M	BPSK	1	1	Right Side	5mm	Ant 2	DSI 7	507000	2535	1	21.77	22.80	1.268			0.02	0.244	0.309
	FR1 n7	50M	BPSK	135	68	Right Side	5mm	Ant 2	DSI 7	507000	2535	1	21.74	22.80	1.276			-0.08	0.251	0.320
	FR1 n7	50M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI 7	507000	2535	1	21.77	22.80	1.268			0.10	0.994	1.260
39	FR1 n7	50M	BPSK	135	68	Bottom Side	5mm	Ant 2	DSI 7	507000	2535	1	21.74	22.80	1.276			0.02	1.010	1.289
	FR1 n7	50M	BPSK	135	68	Bottom Side	5mm	Ant 2	DSI 7	507000	2535	2	21.74	22.80	1.276			-0.07	0.846	1.079
	FR1 n7	50M	BPSK	135	68	Bottom Side	5mm	Ant 2	DSI 7	507000	2535	3	21.74	22.80	1.276			0.08	0.996	1.271
	FR1 n7	50M	BPSK	270	0	Bottom Side	5mm	Ant 2	DSI 7	507000	2535	1	21.61	22.80	1.315			0.12	0.867	1.140
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 1	DSI 7	349000	1745	1	16.22	17.40	1.312			-0.04	0.200	0.262
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 1	DSI 7	349000	1745	1	16.17	17.40	1.327			0.13	0.254	0.337
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	349000	1745	1	16.22	17.40	1.312			0.11	0.397	0.521
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI 7	349000	1745	1	16.17	17.40	1.327			-0.09	0.471	0.625
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI 7	349000	1745	2	16.17	17.40	1.327			-0.09	0.395	0.524



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	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI 7	349000	1745	3	16.17	17.40	1.327			0.01	0.385	0.511
	FR1 n66	40M	BPSK	1	1	Left Side	5mm	Ant 1	DSI 7	349000	1745	1	16.22	17.40	1.312			-0.03	0.146	0.192
	FR1 n66	40M	BPSK	108	54	Left Side	5mm	Ant 1	DSI 7	349000	1745	1	16.17	17.40	1.327			-0.06	0.156	0.207
	FR1 n66	40M	BPSK	1	1	Top Side	5mm	Ant 1	DSI 7	349000	1745	1	16.22	17.40	1.312			0.13	0.296	0.388
	FR1 n66	40M	BPSK	108	54	Top Side	5mm	Ant 1	DSI 7	349000	1745	1	16.17	17.40	1.327			-0.13	0.350	0.464
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 2	DSI 7	349000	1745	1	22.71	23.40	1.172			0.17	0.681	0.798
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 2	DSI 7	349000	1745	1	22.70	23.40	1.175			-0.09	0.805	0.946
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 2	DSI 7	349000	1745	1	22.61	23.40	1.199			-0.05	0.674	0.808
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 2	DSI 7	349000	1745	1	22.71	23.40	1.172			-0.12	0.814	0.954
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	DSI 7	349000	1745	1	22.70	23.40	1.175			0.05	0.885	1.040
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 2	DSI 7	349000	1745	1	22.61	23.40	1.199			0.16	0.826	0.990
	FR1 n66	40M	BPSK	1	1	Left Side	5mm	Ant 2	DSI 7	349000	1745	1	22.71	23.40	1.172			-0.19	0.142	0.166
	FR1 n66	40M	BPSK	108	54	Left Side	5mm	Ant 2	DSI 7	349000	1745	1	22.70	23.40	1.175			-0.08	0.171	0.201
	FR1 n66	40M	BPSK	1	1	Right Side	5mm	Ant 2	DSI 7	349000	1745	1	22.71	23.40	1.172			-0.14	0.290	0.340
	FR1 n66	40M	BPSK	108	54	Right Side	5mm	Ant 2	DSI 7	349000	1745	1	22.70	23.40	1.175			-0.00	0.329	0.387
	FR1 n66	40M	BPSK	1	1	Bottom Side	5mm	Ant 2	DSI 7	349000	1745	1	22.71	23.40	1.172			-0.02	1.020	1.195
40	FR1 n66	40M	BPSK	108	54	Bottom Side	5mm	Ant 2	DSI 7	349000	1745	1	22.70	23.40	1.175			0.09	1.080	1.269
	FR1 n66	40M	BPSK	108	54	Bottom Side	5mm	Ant 2	DSI 7	349000	1745	2	22.70	23.40	1.175			-0.07	1.010	1.187
	FR1 n66	40M	BPSK	108	54	Bottom Side	5mm	Ant 2	DSI 7	349000	1745	3	22.70	23.40	1.175			-0.08	1.040	1.222
	FR1 n66	40M	BPSK	216	0	Bottom Side	5mm	Ant 2	DSI 7	349000	1745	1	22.61	23.40	1.199			0.06	0.970	1.163
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 0	DSI 7	518598	2592.99	1	20.28	21.50	1.324			-0.12	0.434	0.575
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 0	DSI 7	518598	2592.99	1	20.27	21.50	1.327			-0.16	0.489	0.649
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 0	DSI 7	518598	2592.99	1	20.28	21.50	1.324			-0.07	0.876	1.160
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 0	DSI 7	518598	2592.99	1	20.27	21.50	1.327			-0.05	0.901	1.196
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 0	DSI 7	518598	2592.99	1	20.23	21.00	1.194			-0.17	0.776	0.927
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 0	DSI 7	518598	2592.99	1	20.28	21.50	1.324			0.05	0.118	0.156
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 0	DSI 7	518598	2592.99	1	20.27	21.50	1.327			0.18	0.103	0.137
	FR1 n41	100M	BPSK	1	1	Bottom Side	5mm	Ant 0	DSI 7	518598	2592.99	1	20.28	21.50	1.324			-0.17	0.876	1.160
	FR1 n41	100M	BPSK	135	69	Bottom Side	5mm	Ant 0	DSI 7	518598	2592.99	1	20.27	21.50	1.327			0.01	0.934	1.239
	FR1 n41	100M	BPSK	135	69	Bottom Side	5mm	Ant 0	DSI 7	518598	2592.99	2	20.27	21.50	1.327			-0.03	0.829	1.100
	FR1 n41	100M	BPSK	135	69	Bottom Side	5mm	Ant 0	DSI 7	518598	2592.99	3	20.27	21.50	1.327			0.08	0.841	1.116
	FR1 n41	100M	BPSK	270	0	Bottom Side	5mm	Ant 0	DSI 7	518598	2592.99	1	20.23	21.00	1.194			0.12	0.706	0.843
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 1	DSI 7	518598	2592.99	1	15.57	16.40	1.211			0.11	0.239	0.289
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 1	DSI 7	518598	2592.99	1	15.56	16.40	1.213			-0.08	0.223	0.270
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	518598	2592.99	1	15.57	16.40	1.211			-0.02	0.512	0.620
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	518598	2592.99	2	15.57	16.40	1.211			-0.07	0.496	0.601
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI 7	518598	2592.99	3	15.57	16.40	1.211			0.07	0.492	0.596
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 1	DSI 7	518598	2592.99	1	15.56	16.40	1.213			-0.07	0.444	0.539
	FR1 n41	100M	BPSK	1	1	Left Side	5mm	Ant 1	DSI 7	518598	2592.99	1	15.57	16.40	1.211			0.02	0.089	0.108
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 1	DSI 7	518598	2592.99	1	15.56	16.40	1.213			-0.02	0.090	0.109
	FR1 n41	100M	BPSK	1	1	Top Side	5mm	Ant 1	DSI 7	518598	2592.99	1	15.57	16.40	1.211			0.10	0.412	0.499
	FR1 n41	100M	BPSK	135	69	Top Side	5mm	Ant 1	DSI 7	518598	2592.99	1	15.56	16.40	1.213			-0.02	0.386	0.468
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 2	DSI 7	518598	2592.99	1	21.04	22.00	1.247			0.09	0.544	0.678
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 2	DSI 7	518598	2592.99	1	20.84	22.00	1.306			0.10	0.465	0.607
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 2	DSI 7	518598	2592.99	1	21.04	22.00	1.247			0.16	0.633	0.789
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 2	DSI 7	518598	2592.99	1	20.84	22.00	1.306			0.14	0.566	0.739
	FR1 n41	100M	BPSK	1	271	Left Side	5mm	Ant 2	DSI 7	518598	2592.99	1	21.04	22.00	1.247			-0.16	0.095	0.118
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 2	DSI 7	518598	2592.99	1	20.84	22.00	1.306			0.18	0.085	0.111
	FR1 n41	100M	BPSK	1	271	Right Side	5mm	Ant 2	DSI 7	518598	2592.99	1	21.04	22.00	1.247			0.09	0.265	0.330
	FR1 n41	100M	BPSK	135	69	Right Side	5mm	Ant 2	DSI 7	518598	2592.99	1	20.84	22.00	1.306			-0.07	0.199	0.260
41	FR1 n41	100M	BPSK	1	271	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	1	21.04	22.00	1.247			0.08	1.020	1.272
	FR1 n41	100M	BPSK	1	271	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	2	21.04	22.00	1.247			0.08	0.784	0.978
	FR1 n41	100M	BPSK	1	271	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	3	21.04	22.00	1.247			-0.05	0.874	1.090
	FR1 n41	100M	BPSK	135	69	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	1	20.84	22.00	1.306			0.17	0.785	1.025
	FR1 n41	100M	BPSK	270	0	Bottom Side	5mm	Ant 2	DSI 7	518598	2592.99	1	20.77	22.00	1.327			0.14	0.661	0.877
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 9	DSI 7	518598	2592.99	1	12.68	13.40	1.18			0.07	0.118	0.139
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 9	DSI 7	518598	2592.99	1	12.70	13.40	1.175			0.18	0.122	0.143
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 9	DSI 7	518598	2592.99	1	12.68	13.40	1.18			-0.03	0.159	0.188
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 9	DSI 7	518598	2592.99	1	12.70	13.40	1.175			0.16	0.165	0.194
	FR1 n41	100M	BPSK	1	271	Left Side	5mm	Ant 9	DSI 7	518598	2592.99	1	12.68	13.40	1.18			0.17	0.383	0.452
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 9	DSI 7	518598	2592.99	1	12.70	13.40	1.175			0.04	0.526	0.618
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 9	DSI 7	518598	2592.99	2	12.70	13.40	1.175			-0.07	0.420	0.493
	FR1 n41	100M	BPSK	135	69	Left Side	5mm	Ant 9	DSI 7	518598	2592.99	3	12.70	13.40	1.175			-0.06	0.387	0.455
	FR1 n41	100M	BPSK	1	271	Top Side	5mm	Ant 9	DSI 7	518598	2592.99	1	12.68	13.40	1.18			-0.05	0.001	0.001
	FR1 n41	100M	BPSK	135	69	Top Side	5mm	Ant 9	DSI 7	518598	2592.99	1	12.70	13.40	1.175			0.13	0.001	0.001
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 7	656000	3840	1	13.40	14.30	1.23			0.16	0.188	0.231
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 7	656000	3840	1	13.37	14.30	1.239			0.01	0.204	0.253
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 4	DSI 7	656000	3840	1	13.40	14.30	1.23			0.06	0.295	0.363
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 4	DSI 7	656000	3840	1	13.37	14.30	1.239			0.10	0.219	0.271
	FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 4	DSI 7	656000	3840	1	13.40	14.30	1.23			-0.19	0.104	0.128
	FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 4	DSI 7	656000	3840	1	13.37	14.30						



FCC SAR Test Report

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	FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 4	DSI 7	656000	3840	1	13.40	14.30	1.23			0.19	0.431	0.530
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI 7	656000	3840	1	13.37	14.30	1.239			0.03	0.500	0.620
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI 7	656000	3840	2	13.37	14.30	1.239			-0.08	0.304	0.377
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 4	DSI 7	656000	3840	3	13.37	14.30	1.239			-0.07	0.268	0.332
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	DSI 7	656000	3840	1	15.09	16.00	1.233			-0.16	0.223	0.275
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	DSI 7	656000	3840	1	15.04	16.00	1.247			0.01	0.163	0.203
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	DSI 7	656000	3840	1	15.09	16.00	1.233			-0.11	0.424	0.523
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	DSI 7	656000	3840	1	15.04	16.00	1.247			-0.06	0.350	0.436
	FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI 7	656000	3840	1	15.09	16.00	1.233			0.06	0.504	0.621
	FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI 7	656000	3840	2	15.09	16.00	1.233			0.09	0.378	0.466
	FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 5	DSI 7	656000	3840	3	15.09	16.00	1.233			-0.07	0.233	0.287
	FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 5	DSI 7	656000	3840	1	15.04	16.00	1.247			0.19	0.314	0.392
	FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 5	DSI 7	656000	3840	1	15.09	16.00	1.233			0.18	0.121	0.149
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 5	DSI 7	656000	3840	1	15.04	16.00	1.247			-0.12	0.104	0.130
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 7	DSI 7	656000	3840	1	17.75	18.60	1.216			0.10	0.271	0.330
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 7	DSI 7	656000	3840	1	17.71	18.60	1.227			0.16	0.248	0.304
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 7	DSI 7	656000	3840	1	17.75	18.60	1.216			-0.13	0.439	0.534
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI 7	656000	3840	1	17.71	18.60	1.227			0.05	0.512	0.628
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI 7	656000	3840	2	17.71	18.60	1.227			-0.04	0.507	0.622
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI 7	656000	3840	3	17.71	18.60	1.227			-0.02	0.462	0.567
	FR1 n77	100M	BPSK	1	1	Left Side	5mm	Ant 7	DSI 7	656000	3840	1	17.75	18.60	1.216			0.18	0.486	0.591
	FR1 n77	100M	BPSK	135	69	Left Side	5mm	Ant 7	DSI 7	656000	3840	1	17.71	18.60	1.227			-0.13	0.505	0.620
	FR1 n77	100M	BPSK	1	1	Top Side	5mm	Ant 7	DSI 7	656000	3840	1	17.75	18.60	1.216			0.09	0.134	0.163
	FR1 n77	100M	BPSK	135	69	Top Side	5mm	Ant 7	DSI 7	656000	3840	1	17.71	18.60	1.227			-0.14	0.116	0.142
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI 7	656000	3840	1	22.79	23.90	1.291			-0.12	0.261	0.337
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI 7	656000	3840	1	22.55	23.90	1.365			-0.06	0.237	0.324
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 8	DSI 7	656000	3840	1	22.79	23.90	1.291			-0.15	0.331	0.427
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	DSI 7	656000	3840	1	22.55	23.90	1.365			0.00	0.355	0.485
	FR1 n77	100M	BPSK	1	1	Right Side	5mm	Ant 8	DSI 7	656000	3840	1	22.79	23.90	1.291			-0.02	0.774	0.999
	FR1 n77	100M	BPSK	135	69	Right Side	5mm	Ant 8	DSI 7	656000	3840	1	22.55	23.90	1.365			-0.09	0.690	0.942
42	FR1 n77	100M	BPSK	270	0	Right Side	5mm	Ant 8	DSI 7	656000	3840	1	21.99	23.40	1.384			0.07	0.826	1.143
	FR1 n77	100M	BPSK	270	0	Right Side	5mm	Ant 8	DSI 7	656000	3840	2	21.99	23.40	1.384			-0.04	0.816	1.129
	FR1 n77	100M	BPSK	270	0	Right Side	5mm	Ant 8	DSI 7	656000	3840	3	21.99	23.40	1.384			0.02	0.780	1.080
	FR1 n77	100M	BPSK	1	1	Bottom Side	5mm	Ant 8	DSI 7	656000	3840	1	22.79	23.90	1.291			-0.16	0.071	0.092
	FR1 n77	100M	BPSK	135	69	Bottom Side	5mm	Ant 8	DSI 7	656000	3840	1	22.55	23.90	1.365			-0.17	0.070	0.096

【WLAN 2.4GHz_5GHz SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
43	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Hotspot	1	2412	1	15.23	16.50	1.34	97.45	1.026	-0.13	0.305	0.419
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Hotspot	1	2412	1	15.23	16.50	1.34	97.45	1.026	-0.09	0.472	0.649
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	Ant 3	Hotspot	1	2412	1	15.23	16.50	1.34	97.45	1.026	0.07	0.171	0.235
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	Ant 3	Hotspot	1	2412	1	15.23	16.50	1.34	97.45	1.026	-0.03	0.292	0.401
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Hotspot	1	2412	2	15.23	16.50	1.34	97.45	1.026	0.03	0.335	0.461
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Hotspot	1	2412	3	15.23	16.50	1.34	97.45	1.026	0.06	0.397	0.546
44	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4	Hotspot	42	5210	1	13.85	15.50	1.462	100.0	1.0	-0.05	0.184	0.269
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4	Hotspot	42	5210	1	13.85	15.50	1.462	100.0	1.0	-0.08	0.261	0.382
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 4	Hotspot	42	5210	1	13.85	15.50	1.462	100.0	1.0	0.19	0.047	0.069
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4	Hotspot	42	5210	1	13.85	15.50	1.462	100.0	1.0	0.01	0.413	0.604
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4	Hotspot	42	5210	2	13.85	15.50	1.462	100.0	1.0	0.06	0.288	0.421
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4	Hotspot	42	5210	3	13.85	15.50	1.462	100.0	1.0	0.05	0.329	0.481
	WLAN5GHz	802.11n-HT40 MCS0	Front	5mm	Ant 6	Hotspot	46	5230	1	15.92	17.50	1.439	100.0	1.0	-0.17	0.182	0.262
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6	Hotspot	46	5230	1	15.92	17.50	1.439	100.0	1.0	-0.04	0.407	0.586
	WLAN5GHz	802.11n-HT40 MCS0	Right Side	5mm	Ant 6	Hotspot	46	5230	1	15.92	17.50	1.439	100.0	1.0	-0.01	0.305	0.439
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	5mm	Ant 6	Hotspot	46	5230	1	15.92	17.50	1.439	100.0	1.0	-0.11	0.062	0.089
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6	Hotspot	46	5230	2	15.92	17.50	1.439	100.0	1.0	0.04	0.285	0.410
	WLAN5GHz	802.11n-HT40 MCS0	Back	5mm	Ant 6	Hotspot	46	5230	3	15.92	17.50	1.439	100.0	1.0	-0.07	0.316	0.455
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4	Hotspot	155	5775	1	14.22	15.50	1.343	100.0	1.0	0.16	0.300	0.403
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4	Hotspot	155	5775	1	14.22	15.50	1.343	100.0	1.0	0.03	0.333	0.447
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 4	Hotspot	155	5775	1	14.22	15.50	1.343	100.0	1.0	0.11	0.043	0.058
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4	Hotspot	155	5775	1	14.22	15.50	1.343	100.0	1.0	0.06	0.393	0.528
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4	Hotspot	155	5775	2	14.22	15.50	1.343	100.0	1.0	0.11	0.362	0.486
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 4	Hotspot	155	5775	3	14.22	15.50	1.343	100.0	1.0	0.15	0.391	0.525
45	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Hotspot	155	5775	1	14.62	16.50	1.542	100.0	1.0	0.17	0.296	0.456
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Hotspot	155	5775	1	14.62	16.50	1.542	100.0	1.0	-0.03	0.329	0.507
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Hotspot	155	5775	1	14.62	16.50	1.542	100.0	1.0	-0.03	0.399	0.615
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	5mm	Ant 6	Hotspot	155	5775	1	14.62	16.50	1.542	100.0	1.0	-0.09	0.062	0.096
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Hotspot	155	5775	2	14.62	16.50	1.542	100.0	1.0	-0.15	0.318	0.490
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	5mm	Ant 6	Hotspot	155	5775	3	14.62	16.50	1.542	100.0	1.0	-0.05	0.352	0.543

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample#	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
46	Bluetooth	1Mbps	Front	5mm	Ant 3	Hotspot	39	2441	1	13.71	15.00	1.346	77.13	1.08	0.02	0.123	0.179
	Bluetooth	1Mbps	Back	5mm	Ant 3	Hotspot	39	2441	1	13.71	15.00	1.346	77.13	1.08	0.03	0.188	0.273
	Bluetooth	1Mbps	Right Side	5mm	Ant 3	Hotspot	39	2441	1	13.71	15.00	1.346	77.13	1.08	0.18	0.077	0.112
	Bluetooth	1Mbps	Top Side	5mm	Ant 3	Hotspot	39	2441	1	13.71	15.00	1.346	77.13	1.08	0.19	0.130	0.189

16.3 Body Worn Accessory SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM850	GPRS 3 Tx slots	Front	5mm	Ant 0	DSI 3	189	836.4	-	1	28.84	29.50	1.164	-0.01	0.340	0.396
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 3	189	836.4	-	1	28.84	29.50	1.164	-0.01	0.883	1.028
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 3	128	824.2	-	1	28.70	29.50	1.202	0.01	0.994	1.195
47	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 3	251	848.8	-	1	28.77	29.50	1.183	-0.14	1.090	1.289
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 3	251	848.8	Headset	1	28.77	29.50	1.183	0.05	1.010	1.195
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 3	251	848.8	-	2	28.77	29.50	1.183	-0.04	0.839	0.993
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 0	DSI 3	251	848.8	-	3	28.77	29.50	1.183	0.07	0.937	1.108
	GSM850	GPRS 3 Tx slots	Front	14mm	Ant 0	DSI 4	189	836.4	-	1	28.84	30.00	1.306	-0.17	0.113	0.148
	GSM850	GPRS 3 Tx slots	Back	14mm	Ant 0	DSI 4	189	836.4	-	1	28.84	30.00	1.306	-0.03	0.221	0.289
	GSM850	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI 3	189	836.4	-	1	24.61	25.60	1.256	-0.09	0.223	0.280
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	189	836.4	-	1	24.61	25.60	1.256	0.09	0.711	0.893
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	189	836.4	-	2	24.61	26.00	1.377	-0.04	0.499	0.687
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	189	836.4	-	3	24.61	26.00	1.377	0.07	0.597	0.822
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	128	824.2	-	1	24.33	25.60	1.34	0.10	0.584	0.783
	GSM850	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	251	848.8	-	1	24.41	25.60	1.315	0.03	0.607	0.798
	GSM850	GPRS 3 Tx slots	Front	14mm	Ant 1	DSI 4	189	836.4	-	1	28.88	30.00	1.294	0.14	0.131	0.170
	GSM850	GPRS 3 Tx slots	Back	14mm	Ant 1	DSI 4	189	836.4	-	1	28.88	30.00	1.294	0.11	0.211	0.273
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 1	DSI 3	661	1880	-	1	19.98	21.00	1.265	-0.01	0.270	0.342
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	661	1880	-	1	19.98	21.00	1.265	-0.01	0.650	0.822
48	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	512	1850.2	-	1	19.75	21.00	1.334	0.09	0.673	0.898
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	512	1850.2	-	2	19.75	21.00	1.334	-0.04	0.385	0.514
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	512	1850.2	-	3	19.75	21.00	1.334	0.07	0.526	0.702
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 1	DSI 3	810	1909.8	-	1	19.85	21.00	1.303	-0.07	0.541	0.705
	GSM1900	GPRS 3 Tx slots	Front	14mm	Ant 1	DSI 4	661	1880	-	1	24.32	25.00	1.169	0.02	0.192	0.224
	GSM1900	GPRS 3 Tx slots	Back	14mm	Ant 1	DSI 4	661	1880	-	1	24.32	25.00	1.169	0.06	0.421	0.492
	GSM1900	GPRS 3 Tx slots	Front	5mm	Ant 2	DSI 3	512	1850.2	-	1	25.73	27.00	1.34	0.04	0.425	0.570
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 2	DSI 3	512	1850.2	-	1	25.73	27.00	1.34	-0.01	0.548	0.734
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 2	DSI 3	512	1850.2	-	2	25.73	27.00	1.34	-0.07	0.435	0.583
	GSM1900	GPRS 3 Tx slots	Back	5mm	Ant 2	DSI 3	512	1850.2	-	3	25.73	27.00	1.34	0.05	0.426	0.571

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	9400	1880	-	1	15.77	16.80	1.268	-0.15	0.373	0.473
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9400	1880	-	1	15.77	16.80	1.268	0.01	0.700	0.888
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9400	1880	-	2	15.77	16.80	1.268	-0.01	0.534	0.677
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9400	1880	-	3	15.77	16.80	1.268	-0.07	0.611	0.775
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9262	1852.4	-	1	15.71	16.80	1.285	0.10	0.678	0.871
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	9538	1907.6	-	1	15.64	16.80	1.306	0.11	0.685	0.895
	WCDMA II	RMC 12.2Kbps	Front	14mm	Ant 1	DSI 4	9400	1880	-	1	23.04	24.00	1.247	0.14	0.442	0.551
	WCDMA II	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	9400	1880	-	1	23.04	24.00	1.247	-0.17	0.803	1.001
	WCDMA II	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	9262	1852.4	-	1	22.92	24.00	1.282	0.17	0.778	0.997
	WCDMA II	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	9538	1907.6	-	1	22.93	24.00	1.279	-0.05	0.784	1.003
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	9400	1880	-	1	22.51	23.50	1.256	-0.17	0.781	0.981
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	9262	1852.4	-	1	22.47	23.50	1.268	0.18	0.642	0.814
	WCDMA II	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	9538	1907.6	-	1	22.44	23.50	1.276	-0.06	0.857	1.094
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9400	1880	-	1	22.51	23.50	1.256	0.10	0.932	1.171
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9262	1852.4	-	1	22.47	23.50	1.268	-0.13	0.785	0.995
49	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9538	1907.6	-	1	22.44	23.50	1.276	-0.05	1.010	1.289
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9538	1907.6	Headset	1	22.44	23.50	1.276	0.07	1.000	1.276
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9538	1907.6	-	2	22.44	23.50	1.276	-0.07	0.879	1.122
	WCDMA II	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	9538	1907.6	-	3	22.44	23.50	1.276	0.05	0.888	1.133
	WCDMA II	RMC 12.2Kbps	Front	14mm	Ant 2	DSI 4	9400	1880	-	1	23.28	24.00	1.18	0.08	0.316	0.373
	WCDMA II	RMC 12.2Kbps	Back	14mm	Ant 2	DSI 4	9400	1880	-	1	23.28	24.00	1.18	0.01	0.384	0.453
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	1413	1732.6	-	1	16.71	17.50	1.199	0.12	0.277	0.332
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1413	1732.6	-	1	16.71	17.50	1.199	-0.19	0.668	0.801
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1312	1712.4	-	1	16.57	17.50	1.239	0.18	0.663	0.821
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1513	1752.6	-	1	16.57	17.50	1.239	-0.01	0.718	0.890
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1513	1752.6	-	2	16.57	17.50	1.239	-0.07	0.677	0.839
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	1513	1752.6	-	3	16.57	17.50	1.239	-0.07	0.662	0.820
	WCDMA IV	RMC 12.2Kbps	Front	14mm	Ant 1	DSI 4	1413	1732.6	-	1	22.92	24.00	1.282	0.03	0.267	0.342
	WCDMA IV	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	1413	1732.6	-	1	22.92	24.00	1.282	-0.08	0.486	0.623



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	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	1413	1732.6	-	1	21.47	22.60	1.297	0.15	0.707	0.917
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	1312	1712.4	-	1	21.26	22.60	1.361	-0.10	0.609	0.829
	WCDMA IV	RMC 12.2Kbps	Front	5mm	Ant 2	DSI 3	1513	1752.6	-	1	21.38	22.60	1.324	-0.05	0.811	1.074
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1413	1732.6	-	1	21.47	22.60	1.297	0.10	0.863	1.119
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1312	1712.4	-	1	21.26	22.60	1.361	0.01	0.752	1.023
50	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1513	1752.6	-	1	21.38	22.60	1.324	-0.11	0.959	1.270
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1513	1752.6	Headset	1	21.38	22.60	1.324	-0.02	0.944	1.250
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1513	1752.6	-	2	21.38	22.60	1.324	-0.07	0.700	0.927
	WCDMA IV	RMC 12.2Kbps	Back	5mm	Ant 2	DSI 3	1513	1752.6	-	3	21.38	22.60	1.324	0.05	0.779	1.031
	WCDMA IV	RMC 12.2Kbps	Front	14mm	Ant 2	DSI 4	1413	1732.6	-	1	23.14	24.00	1.219	-0.08	0.311	0.379
	WCDMA IV	RMC 12.2Kbps	Back	14mm	Ant 2	DSI 4	1413	1732.6	-	1	23.14	24.00	1.219	0.10	0.397	0.484
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 0	DSI 3	4182	836.4	-	1	23.32	24.00	1.169	0.01	0.336	0.393
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4182	836.4	-	1	23.32	24.00	1.169	-0.08	0.854	0.998
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4132	826.4	-	1	23.08	24.00	1.236	-0.15	0.827	1.022
51	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4233	846.6	-	1	23.17	24.00	1.211	-0.02	0.980	1.187
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4233	846.6	-	2	23.17	24.00	1.211	-0.07	0.965	1.169
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 0	DSI 3	4233	846.6	-	3	23.17	24.00	1.211	0.04	0.968	1.172
	WCDMA V	RMC 12.2Kbps	Front	14mm	Ant 0	DSI 4	4182	836.4	-	1	23.32	24.00	1.169	-0.18	0.138	0.161
	WCDMA V	RMC 12.2Kbps	Back	14mm	Ant 0	DSI 4	4182	836.4	-	1	23.32	24.00	1.169	0.10	0.254	0.297
	WCDMA V	RMC 12.2Kbps	Front	5mm	Ant 1	DSI 3	4182	836.4	-	1	20.38	21.10	1.18	0.03	0.236	0.278
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4182	836.4	-	1	20.38	21.10	1.18	-0.09	0.711	0.839
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4132	826.4	-	1	20.18	21.10	1.236	-0.01	0.722	0.892
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4132	826.4	-	2	20.18	21.10	1.236	-0.07	0.472	0.583
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4132	826.4	-	3	20.18	21.10	1.236	0.04	0.517	0.639
	WCDMA V	RMC 12.2Kbps	Back	5mm	Ant 1	DSI 3	4233	846.6	-	1	20.27	21.10	1.211	0.08	0.689	0.834
	WCDMA V	RMC 12.2Kbps	Front	14mm	Ant 1	DSI 4	4182	836.4	-	1	23.41	24.00	1.146	0.12	0.116	0.133
	WCDMA V	RMC 12.2Kbps	Back	14mm	Ant 1	DSI 4	4182	836.4	-	1	23.41	24.00	1.146	0.08	0.268	0.307

【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 3	18900	1880	-	1	17.48	18.50	1.265			-0.17	0.479	0.606
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 0	DSI 3	18900	1880	-	1	17.46	18.50	1.271			0.19	0.311	0.395
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	18900	1880	-	1	17.48	18.50	1.265			-0.05	1.000	1.265
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	18700	1860	-	1	17.44	18.50	1.276			-0.05	1.010	1.289
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	18700	1860	Headset	1	17.44	18.50	1.276			0.11	0.988	1.261
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	18700	1860	-	2	17.44	18.50	1.276			-0.07	0.736	0.939
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	18700	1860	-	3	17.44	18.50	1.276			0.05	0.862	1.100
	LTE Band 2C	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	18700+18898	1860+1879.8	-	1	17.29	18.50	1.321			0.08	0.880	1.162
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	19100	1900	-	1	17.36	18.50	1.3			-0.09	0.944	1.227
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	18900	1880	-	1	17.46	18.50	1.271			0.19	0.660	0.839
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	18700	1860	-	1	17.39	18.50	1.291			0.09	0.688	0.888
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	19100	1900	-	1	17.40	18.50	1.288			-0.16	0.610	0.786
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 0	DSI 3	19100	1900	-	1	17.31	18.50	1.315			0.03	0.683	0.898
	LTE Band 2	20M	QPSK	1	0	Front	14mm	Ant 0	DSI 4	18900	1880	-	1	22.29	23.00	1.178			-0.17	0.359	0.423
	LTE Band 2	20M	QPSK	1	0	Back	14mm	Ant 0	DSI 4	18900	1880	-	1	22.29	23.00	1.178			-0.03	0.671	0.790
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	18900	1880	-	1	16.08	17.10	1.265			0.12	0.408	0.516
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3	18900	1880	-	1	16.05	17.10	1.274			-0.08	0.266	0.339
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	18900	1880	-	1	16.08	17.10	1.265			0.05	0.650	0.822
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	18700	1860	-	1	15.88	17.10	1.324			-0.07	0.667	0.883
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	18700	1860	-	2	15.88	17.10	1.324			-0.07	0.513	0.679
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	18700	1860	-	3	15.88	17.10	1.324			0.04	0.634	0.839
	LTE Band 2C	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	18700+18898	1860+1879.8	-	1	15.88	17.10	1.324			0.06	0.482	0.638
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	19100	1900	-	1	16.02	17.10	1.282			0.06	0.603	0.773
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	18900	1880	-	1	16.05	17.10	1.274			-0.18	0.401	0.511
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 1	DSI 3	18900	1880	-	1	16.03	17.10	1.279			0.10	0.410	0.524
	LTE Band 2	20M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	18900	1880	-	1	22.71	24.00	1.346			0.14	0.462	0.622
	LTE Band 2	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	18900	1880	-	1	22.71	24.00	1.346			0.11	0.815	1.097
	LTE Band 2	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	18700	1860	-	1	22.64	24.00	1.368			-0.05	0.784	1.073
	LTE Band 2	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	19100	1900	-	1	22.56	24.00	1.393			0.07	0.801	1.116
	LTE Band 2	20M	QPSK	100	0	Back	14mm	Ant 1	DSI 4	18900	1880	-	1	21.69	23.00	1.352			-0.02	0.641	0.867
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	18900	1880	-	1	22.71	23.70	1.256			-0.18	0.872	1.095
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	18700	1860	-	1	22.65	23.70	1.274			0.08	0.755	0.962
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	19100	1900	-	1	22.68	23.70	1.265			-0.14	0.995	1.259
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3	18900	1880	-	1	21.79	23.00	1.321			-0.11	0.566	0.748
	LTE Band 2	20M	QPSK	100	0	Front	5mm	Ant 2	DSI 3	18900	1880	-	1	21.71	23.00	1.346			-0.17	0.564	0.759
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	18900	1880	-	1	22.71	23.70	1.256			-0.08	0.925	1.162
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	18700	1860	-	1	22.65	23.70	1.274			0.00	0.815	1.038
52	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	19100	1900	-	1	22.68	23.70	1.265			-0.10	1.030	1.303
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	19100	1900	Headset	1	22.68	23.70	1.265			0.01	1.010	1.278



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	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	19100	1900	-	2	22.68	23.70	1.265			-0.04	1.010	1.278
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	19100	1900	-	3	22.68	23.70	1.265			0.04	1.030	1.303
	LTE Band 2C	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	19100+18902	1900+1919.8	-	1	22.62	23.70	1.282			0.05	0.860	1.103
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	18900	1880	-	1	21.79	23.00	1.321			0.18	0.612	0.808
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	18700	1860	-	1	21.70	23.00	1.349			0.03	0.600	0.809
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	19100	1900	-	1	21.72	23.00	1.343			0.05	0.611	0.821
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 3	18900	1880	-	1	21.71	23.00	1.346			-0.07	0.606	0.816
	LTE Band 2	20M	QPSK	1	0	Front	14mm	Ant 2	DSI 4	18900	1880	-	1	22.92	24.00	1.282			-0.05	0.206	0.264
	LTE Band 2	20M	QPSK	1	0	Back	14mm	Ant 2	DSI 4	18900	1880	-	1	22.92	24.00	1.282			0.18	0.312	0.400
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 9	DSI 3	18900	1880	-	1	20.14	20.90	1.191			0.10	0.341	0.406
	LTE Band 2	20M	QPSK	50	0	Front	5mm	Ant 9	DSI 3	18900	1880	-	1	20.10	20.90	1.202			-0.08	0.221	0.266
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	18900	1880	-	1	20.14	20.90	1.191			0.00	0.673	0.802
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	18700	1860	-	1	20.04	20.90	1.219			-0.10	0.668	0.814
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	19100	1900	-	1	19.96	20.90	1.242			-0.02	0.705	0.876
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	19100	1880	-	2	19.96	20.90	1.242			-0.04	0.673	0.836
	LTE Band 2	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	19100	1880	-	3	19.96	20.90	1.242			0.07	0.501	0.622
	LTE Band 2C	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	19100+18902	1900+1919.8	-	1	19.92	20.90	1.253			0.04	0.682	0.855
	LTE Band 2	20M	QPSK	50	0	Back	5mm	Ant 9	DSI 3	18900	1880	-	1	20.10	20.90	1.202			-0.02	0.338	0.406
	LTE Band 2	20M	QPSK	100	0	Back	5mm	Ant 9	DSI 3	18900	1880	-	1	20.08	20.90	1.208			-0.16	0.319	0.385
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 3	21100	2535	-	1	20.31	21.00	1.172			0.09	0.411	0.482
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 0	DSI 3	21100	2535	-	1	20.11	21.00	1.227			0.14	0.267	0.328
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	21100	2535	-	1	20.31	21.00	1.172			-0.00	0.939	1.101
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	20850	2510	-	1	20.27	21.00	1.183			-0.12	0.988	1.169
53	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	21350	2560	-	1	20.21	21.00	1.199			-0.05	1.070	1.283
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	21350	2560	Headset	1	20.21	21.00	1.199			0.05	0.996	1.194
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	21350	2560	-	2	20.21	21.00	1.199			-0.04	0.970	1.163
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	21350	2560	-	3	20.21	21.00	1.199			0.05	0.923	1.107
	LTE Band 7C	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	21350+21152	2560+2540.2	-	1	20.18	21.00	1.208			0.08	0.946	1.143
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	21100	2535	-	1	20.11	21.00	1.227			0.07	0.611	0.750
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 0	DSI 3	21100	2535	-	1	20.05	21.00	1.245			-0.13	0.606	0.754
	LTE Band 7	20M	QPSK	1	0	Front	14mm	Ant 0	DSI 4	21100	2535	-	1	22.87	24.00	1.297			0.14	0.147	0.191
	LTE Band 7	20M	QPSK	1	0	Back	14mm	Ant 0	DSI 4	21100	2535	-	1	22.87	24.00	1.297			-0.17	0.254	0.329
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	21100	2535	-	1	15.53	16.50	1.25			0.16	0.427	0.534
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3	21100	2535	-	1	15.55	16.50	1.245			0.17	0.275	0.342
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	21100	2535	-	1	15.53	16.50	1.25			0.15	0.680	0.850
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	20850	2510	-	1	15.50	16.50	1.259			0.04	0.642	0.808
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	21350	2560	-	1	15.41	16.50	1.285			0.02	0.688	0.884
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	21350	2560	-	2	15.41	16.50	1.285			-0.04	0.595	0.765
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	21350	2560	-	3	15.41	16.50	1.285			0.02	0.578	0.743
	LTE Band 7C	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	21350+21152	2560+2540.2	-	1	15.33	16.50	1.309			0.08	0.589	0.771
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	21100	2535	-	1	15.55	16.50	1.245			-0.10	0.429	0.534
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 1	DSI 3	21100	2535	-	1	15.38	16.50	1.294			-0.03	0.431	0.558
	LTE Band 7	20M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	21100	2535	-	1	23.37	24.00	1.156			0.17	0.446	0.516
	LTE Band 7	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	21100	2535	-	1	23.37	24.00	1.156			-0.05	0.773	0.894
	LTE Band 7	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	20850	2510	-	1	23.24	24.00	1.191			-0.07	0.721	0.859
	LTE Band 7	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	21350	2560	-	1	23.12	24.00	1.225			0.04	0.774	0.948
	LTE Band 7	20M	QPSK	100	0	Back	14mm	Ant 1	DSI 4	21100	2535	-	1	22.12	23.00	1.225			-0.09	0.612	0.750
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	21100	2535	-	1	22.27	23.10	1.211			0.05	0.815	0.987
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	20850	2510	-	1	22.24	23.10	1.219			-0.05	0.854	1.041
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	21350	2560	-	1	22.20	23.10	1.23			-0.06	0.799	0.983
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3	21100	2535	-	1	22.14	23.10	1.247			-0.13	0.519	0.647
	LTE Band 7	20M	QPSK	100	0	Front	5mm	Ant 2	DSI 3	21100	2535	-	1	22.05	23.10	1.274			0.00	0.513	0.654
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	21100	2535	-	1	22.27	23.10	1.211			0.12	1.010	1.223
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	20850	2510	-	1	22.24	23.10	1.219			-0.03	1.040	1.268
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	20850	2510	Headset	1	22.24	23.10	1.219			0.05	1.020	1.243
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	20850	2510	-	2	22.24	23.10	1.219			-0.07	0.874	1.065
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	20850	2510	-	3	22.24	23.10	1.219			0.04	1.010	1.231
	LTE Band 7C	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	20850+21048	2510+2529.8	-	1	22.07	23.10	1.268			0.06	0.910	1.154
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	21350	2560	-	1	22.20	23.10	1.23			0.08	0.993	1.221
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	21100	2535	-	1	22.14	23.10	1.247			0.05	0.691	0.862
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	20850	2510	-	1	22.12	23.10	1.253			-0.09	0.695	0.871
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	21350	2560	-	1	22.04	23.10	1.276			-0.03	0.690	0.880
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 3	21100	2535	-	1	22.05	23.10	1.274			0.18	0.692	0.882
	LTE Band 7	20M	QPSK	1	0	Front	14mm	Ant 2	DSI 4	21100	2535	-	1	23.37	24.00	1.156			0.01	0.219	0.253
	LTE Band 7	20M	QPSK	1	0	Back	14mm	Ant 2	DSI 4	21100	2535	-	1	23.37	24.00	1.156			0.10	0.255	0.295
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 9	DSI 3	21100	2535	-	1	16.98	18.40	1.387			-0.18	0.454	0.630
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 9	DSI 3	21100	2535	-	1	16.88	18.40	1.419			0.16	0.282	0.400
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	21100	2535	-	1	16.98	18.40	1.387			0.07	0.635	0.881
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	21100	2535	-	2	16.98	18.40	1.387			-0.04	0.571	0.792
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	21100	2535	-	3	16.98	18.40	1.387			0.07	0.538	0.746
	LTE Band 7C	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	21100+20902</											



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	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 9	DSI 3	21100	2535	-	1	16.88	18.40	1.419			-0.04	0.427	0.606
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 9	DSI 3	21100	2535	-	1	16.76	18.40	1.459			-0.11	0.423	0.617
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 3	23095	707.5	-	1	23.22	24.00	1.197			-0.07	0.166	0.199
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 3	23095	707.5	-	1	22.17	23.00	1.211			-0.09	0.112	0.136
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	23095	707.5	-	1	23.22	24.00	1.197			0.09	0.447	0.535
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	23095	707.5	-	2	23.22	24.00	1.197			-0.04	0.370	0.443
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	23095	707.5	-	3	23.22	24.00	1.197			0.07	0.326	0.390
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 3	23095	707.5	-	1	22.17	23.00	1.211			-0.16	0.308	0.373
	LTE Band 12	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	23095	707.5	-	1	22.38	23.20	1.208			-0.05	0.242	0.292
	LTE Band 12	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 3	23095	707.5	-	1	22.31	23.00	1.172			-0.18	0.171	0.200
54	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	23095	707.5	-	1	22.38	23.20	1.208			-0.09	0.727	0.878
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	23095	707.5	-	2	22.38	23.20	1.208			-0.04	0.577	0.697
	LTE Band 12	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	23095	707.5	-	3	22.38	23.20	1.208			-0.07	0.715	0.864
	LTE Band 12	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 3	23095	707.5	-	1	22.31	23.00	1.172			0.08	0.585	0.686
	LTE Band 12	10M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	23095	707.5	-	1	22.32	23.00	1.169			0.01	0.582	0.680
	LTE Band 12	10M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	23095	707.5	-	1	23.27	24.00	1.183			-0.17	0.127	0.150
	LTE Band 12	10M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	23095	707.5	-	1	23.27	24.00	1.183			0.04	0.143	0.169
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 0	DSI 3	23230	782	-	1	22.84	24.00	1.306			-0.17	0.291	0.380
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 0	DSI 3	23230	782	-	1	21.88	23.00	1.294			-0.07	0.174	0.225
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	23230	782	-	1	22.84	24.00	1.306			0.08	0.667	0.871
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	23230	782	-	2	22.84	24.00	1.306			-0.04	0.657	0.858
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	23230	782	-	3	22.84	24.00	1.306			0.02	0.643	0.840
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 0	DSI 3	23230	782	-	1	21.88	23.00	1.294			-0.17	0.403	0.521
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	23230	782	-	1	21.72	23.00	1.343			0.06	0.410	0.551
	LTE Band 13	10M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	23230	782	-	1	20.01	21.10	1.285			-0.12	0.269	0.346
	LTE Band 13	10M	QPSK	25	0	Front	5mm	Ant 1	DSI 3	23230	782	-	1	19.98	21.10	1.294			-0.09	0.194	0.251
55	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	23230	782	-	1	20.01	21.10	1.285			0.00	0.694	0.892
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	23230	782	-	2	20.01	21.10	1.285			-0.07	0.687	0.883
	LTE Band 13	10M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	23230	782	-	3	20.01	21.10	1.285			-0.04	0.569	0.731
	LTE Band 13	10M	QPSK	25	0	Back	5mm	Ant 1	DSI 3	23230	782	-	1	19.98	21.10	1.294			0.16	0.466	0.603
	LTE Band 13	10M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	23230	782	-	1	19.99	21.10	1.291			-0.14	0.466	0.602
	LTE Band 13	10M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	23230	782	-	1	23.15	24.00	1.216			-0.01	0.180	0.219
	LTE Band 13	10M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	23230	782	-	1	23.15	24.00	1.216			-0.01	0.233	0.283
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 0	DSI 3	26865	831.5	-	1	23.10	24.00	1.23			-0.11	0.474	0.583
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 0	DSI 3	26865	831.5	-	1	22.10	23.00	1.23			-0.00	0.291	0.358
56	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	26865	831.5	-	1	23.10	24.00	1.23			0.01	1.050	1.292
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	26865	831.5	Headset	1	23.10	24.00	1.23			0.05	1.010	1.242
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	26865	831.5	-	2	23.10	24.00	1.23			-0.07	0.910	1.119
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	26865	831.5	-	3	23.10	24.00	1.23			0.04	0.815	1.002
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 0	DSI 3	26865	831.5	-	1	22.10	23.00	1.23			0.13	0.652	0.802
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 0	DSI 3	26865	831.5	-	1	22.01	23.00	1.256			0.06	0.648	0.814
	LTE Band 26	15M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	26865	831.5	-	1	21.08	22.00	1.236			-0.15	0.291	0.360
	LTE Band 26	15M	QPSK	36	0	Front	5mm	Ant 1	DSI 3	26865	831.5	-	1	20.93	22.00	1.279			-0.02	0.180	0.230
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	26865	831.5	-	1	21.08	22.00	1.236			-0.03	0.707	0.874
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	26865	831.5	-	2	21.08	22.00	1.236			-0.04	0.582	0.719
	LTE Band 26	15M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	26865	831.5	-	3	21.08	22.00	1.236			-0.02	0.703	0.869
	LTE Band 26	15M	QPSK	36	0	Back	5mm	Ant 1	DSI 3	26865	831.5	-	1	20.93	22.00	1.279			-0.05	0.427	0.546
	LTE Band 26	15M	QPSK	75	0	Back	5mm	Ant 1	DSI 3	26865	831.5	-	1	21.07	22.00	1.239			0.05	0.424	0.524
	LTE Band 26	15M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	26865	831.5	-	1	23.14	24.00	1.219			0.05	0.107	0.130
	LTE Band 26	15M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	26865	831.5	-	1	23.14	24.00	1.219			0.06	0.199	0.243
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	132322	1745	-	1	17.04	18.00	1.247			0.04	0.424	0.529
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3	132322	1745	-	1	16.84	18.00	1.306			0.13	0.272	0.355
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132322	1745	-	1	17.04	18.00	1.247			0.16	0.651	0.812
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132072	1720	-	1	16.98	18.00	1.265			0.05	0.670	0.848
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132572	1770	-	1	16.98	18.00	1.265			0.00	0.698	0.883
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132572	1770	-	2	16.98	18.00	1.265			-0.04	0.644	0.815
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132572	1770	-	3	16.98	18.00	1.265			-0.07	0.660	0.835
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	132572+132374	1770+1750.2	-	1	16.80	18.00	1.318			0.06	0.673	0.887
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	132322	1745	-	1	16.84	18.00	1.306			-0.11	0.426	0.556
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 1	DSI 3	132322	1745	-	1	16.77	18.00	1.327			-0.02	0.419	0.556
	LTE Band 66	20M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	132322	1745	-	1	22.79	24.00	1.321			-0.07	0.378	0.499
	LTE Band 66	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	132322	1745	-	1	22.79	24.00	1.321			-0.04	0.746	0.985
	LTE Band 66	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	132072	1720	-	1	22.66	24.00	1.361			0.02	0.767	1.044
	LTE Band 66	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	132572	1770	-	1	22.55	24.00	1.396			0.07	0.780	1.089
	LTE Band 66	20M	QPSK	100	0	Back	14mm	Ant 1	DSI 4	132322	1745	-	1	21.73	23.00	1.34			0.08	0.618	0.828
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	132322	1745	-	1	22.39	23.00	1.151			-0.01	0.900	1.036
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	132072	1720	-	1	22.29	23.00	1.178			-0.19	0.754	0.888
	LTE Band 66	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	132572	1770	-	1	22.29	23.00	1.178			0.02	1.000	1.178
	LTE Band 66	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3	132322	1745	-	1	21.72	23.00	1.343			0.02	0.585	0.786
	LTE Band 66	20M	QPSK	100	0	Front	5mm	Ant 2	DSI 3	132322	1745	-	1	21.72	23.00	1.343			0.11	0.585	0.786
	LTE Band 66	20M	QPSK	1																	



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	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	132572	1770	Headset	1	22.29	23.00	1.178			-0.12	0.992	1.169
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	132572	1770	-	2	22.29	23.00	1.178			-0.07	0.843	0.993
	LTE Band 66	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	132572	1770	-	3	22.29	23.00	1.178			0.04	0.943	1.111
	LTE Band 66C	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	132572+132374	1770+1750.2	-	1	22.17	23.00	1.211			0.05	0.976	1.182
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	132322	1745	-	1	21.72	23.00	1.343			-0.01	0.654	0.878
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	132072	1720	-	1	21.55	23.00	1.396			-0.08	0.640	0.893
	LTE Band 66	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	132572	1770	-	1	21.52	23.00	1.406			-0.15	0.635	0.891
	LTE Band 66	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 3	132322	1745	-	1	21.72	23.00	1.343			0.14	0.644	0.865
	LTE Band 66	20M	QPSK	1	0	Front	14mm	Ant 2	DSI 4	132322	1745	-	1	22.75	24.00	1.334			-0.07	0.254	0.339
	LTE Band 66	20M	QPSK	1	0	Back	14mm	Ant 2	DSI 4	132322	1745	-	1	22.75	24.00	1.334			0.06	0.331	0.442
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 3	40620	2593	-	1	21.08	21.70	1.153	62.9	1.006	-0.02	0.389	0.451
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 0	DSI 3	40620	2593	-	1	20.99	21.70	1.178	62.9	1.006	0.12	0.248	0.294
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	40620	2593	-	1	21.08	21.70	1.153	62.9	1.006	-0.03	0.901	1.045
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	39750	2506	-	1	21.07	21.70	1.156	62.9	1.006	-0.16	0.821	0.955
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	40185	2549.5	-	1	21.05	21.70	1.161	62.9	1.006	-0.16	0.885	1.034
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	41055	2636.5	-	1	20.96	21.70	1.186	62.9	1.006	0.07	0.917	1.094
58	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	41490	2680	-	1	20.94	21.70	1.191	62.9	1.006	0.19	1.070	1.282
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	41490	2680	Headset	1	20.94	21.70	1.191	62.9	1.006	-0.15	1.020	1.222
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	41490	2680	-	2	20.94	21.70	1.191	62.9	1.006	-0.07	0.993	1.190
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 0	DSI 3	41490	2680	-	3	20.94	21.70	1.191	62.9	1.006	-0.01	0.943	1.130
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	40620	2593	-	1	20.99	21.70	1.178	62.9	1.006	-0.18	0.574	0.680
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	39750	2506	-	1	20.92	21.70	1.197	62.9	1.006	-0.19	0.531	0.639
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	40185	2549.5	-	1	20.90	21.70	1.202	62.9	1.006	0.01	0.574	0.694
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	41055	2636.5	-	1	20.90	21.70	1.202	62.9	1.006	-0.03	0.658	0.796
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 0	DSI 3	41490	2680	-	1	20.79	21.70	1.233	62.9	1.006	0.07	0.663	0.822
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 0	DSI 3	40620	2593	-	1	20.73	21.70	1.25	62.9	1.006	0.13	0.565	0.710
	LTE Band 41	20M	QPSK	1	0	Front	14mm	Ant 0	DSI 4	40620	2593	-	1	22.77	24.00	1.327	62.9	1.006	-0.09	0.087	0.116
	LTE Band 41	20M	QPSK	1	0	Back	14mm	Ant 0	DSI 4	40620	2593	-	1	22.77	24.00	1.327	62.9	1.006	-0.08	0.200	0.267
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 1	DSI 3	40620	2593	-	1	17.56	18.50	1.242	62.9	1.006	-0.17	0.395	0.494
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 1	DSI 3	40620	2593	-	1	17.50	18.50	1.259	62.9	1.006	-0.18	0.257	0.326
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	40620	2593	-	1	17.56	18.50	1.242	62.9	1.006	0.09	0.698	0.872
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	39750	2506	-	1	17.44	18.50	1.276	62.9	1.006	0.09	0.636	0.816
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	40185	2549.5	-	1	17.41	18.50	1.285	62.9	1.006	-0.03	0.688	0.889
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	40185	2549.5	-	2	17.41	18.50	1.285	62.9	1.006	-0.02	0.614	0.794
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	40185	2549.5	-	3	17.41	18.50	1.285	62.9	1.006	0.07	0.573	0.741
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	41055	2636.5	-	1	17.45	18.50	1.274	62.9	1.006	0.08	0.440	0.564
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 1	DSI 3	41490	2680	-	1	17.47	18.50	1.268	62.9	1.006	-0.01	0.398	0.508
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 1	DSI 3	40620	2593	-	1	17.50	18.50	1.259	62.9	1.006	0.03	0.454	0.575
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 1	DSI 3	40185	2549.5	-	1	17.42	18.50	1.282	62.9	1.006	-0.07	0.471	0.607
	LTE Band 41	20M	QPSK	1	0	Front	14mm	Ant 1	DSI 4	40620	2593	-	1	23.37	24.00	1.156	62.9	1.006	0.13	0.266	0.309
	LTE Band 41	20M	QPSK	1	0	Back	14mm	Ant 1	DSI 4	40620	2593	-	1	23.37	24.00	1.156	62.9	1.006	0.12	0.467	0.543
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	40620	2593	-	1	23.41	24.00	1.146	62.9	1.006	-0.09	0.614	0.708
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	39750	2506	-	1	22.91	24.00	1.285	62.9	1.006	-0.03	0.598	0.773
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	40185	2549.5	-	1	23.27	24.00	1.183	62.9	1.006	-0.04	0.588	0.700
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	41055	2636.5	-	1	23.13	24.00	1.222	62.9	1.006	0.08	0.670	0.822
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	DSI 3	41490	2680	-	1	23.37	24.00	1.156	62.9	1.006	-0.13	0.598	0.695
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 2	DSI 3	40620	2593	-	1	22.25	23.00	1.189	62.9	1.006	-0.01	0.402	0.481
	LTE Band 41	20M	QPSK	100	0	Front	5mm	Ant 2	DSI 3	40620	2593	-	1	22.16	23.00	1.213	62.9	1.006	-0.08	0.402	0.491
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	40620	2593	-	1	23.41	24.00	1.146	62.9	1.006	0.06	0.963	1.110
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	39750	2506	-	1	22.91	24.00	1.285	62.9	1.006	0.14	0.909	1.175
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	40185	2549.5	-	1	23.27	24.00	1.183	62.9	1.006	0.13	0.905	1.077
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	41055	2636.5	-	1	23.13	24.00	1.222	62.9	1.006	-0.06	1.030	1.266
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	41055	2636.5	Headset	1	23.13	24.00	1.222	62.9	1.006	0.08	0.997	1.226
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	41055	2636.5	-	2	23.13	24.00	1.222	62.9	1.006	-0.07	0.787	0.967
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	41055	2636.5	-	3	23.13	24.00	1.222	62.9	1.006	0.02	0.904	1.111
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	DSI 3	41490	2680	-	1	23.37	24.00	1.156	62.9	1.006	0.18	0.954	1.109
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	40620	2593	-	1	22.25	23.00	1.189	62.9	1.006	-0.03	0.625	0.748
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	39750	2506	-	1	21.73	23.00	1.34	62.9	1.006	-0.09	0.570	0.768
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	40185	2549.5	-	1	22.07	23.00	1.239	62.9	1.006	-0.10	0.581	0.724
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	41055	2636.5	-	1	21.91	23.00	1.285	62.9	1.006	-0.14	0.660	0.853
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	DSI 3	41490	2680	-	1	22.16	23.00	1.213	62.9	1.006	-0.15	0.584	0.713
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 2	DSI 3	40620	2593	-	1	22.16	23.00	1.213	62.9	1.006	-0.15	0.549	0.670
	LTE Band 41	20M	QPSK	1	0	Front	14mm	Ant 2	DSI 4	40620	2593	-	1	23.41	24.00	1.146	62.9	1.006	0.03	0.173	0.199
	LTE Band 41	20M	QPSK	1	0	Back	14mm	Ant 2	DSI 4	40620	2593	-	1	23.41	24.00	1.146	62.9	1.006	0.18	0.221	0.255
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 9	DSI 3	40620	2593	-	1	20.08	21.20	1.294	62.9	1.006	-0.13	0.391	0.509
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 9	DSI 3	40620	2593	-	1	19.96	21.20	1.33	62.9	1.006	-0.14	0.251	0.336
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 9	DSI 3	40620	2593	-	1								



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	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 9	DSI 3	40620	2593	-	1	19.96	21.20	1.33	62.9	1.006	-0.18	0.416	0.557
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 9	DSI 3	40620	2593	-	1	19.90	21.20	1.349	62.9	1.006	0.14	0.416	0.565
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 4	DSI 3	42590	3500	-	1	19.81	20.50	1.172	62.9	1.006	-0.15	0.464	0.547
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 4	DSI 3	42590	3500	-	1	18.67	20.00	1.358	62.9	1.006	0.15	0.292	0.399
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3	42590	3500	-	1	19.81	20.50	1.172	62.9	1.006	0.00	0.712	0.839
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3	42190	3460	-	1	19.80	20.50	1.175	62.9	1.006	0.09	0.661	0.781
59	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3	42990	3540	-	1	19.53	20.50	1.25	62.9	1.006	0.01	0.717	0.902
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3	42990	3540	-	2	19.53	20.50	1.25	62.9	1.006	0.07	0.602	0.757
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3	42990	3540	-	3	19.53	20.50	1.25	62.9	1.006	-0.01	0.338	0.425
	LTE Band 42C	20M	QPSK	1	0	Back	5mm	Ant 4	DSI 3	42990+42792	3540+3520.2	-	1	19.65	20.50	1.216	62.9	1.006	0.04	0.652	0.798
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 4	DSI 3	42590	3500	-	1	18.67	20.00	1.358	62.9	1.006	0.03	0.462	0.631
	LTE Band 42	20M	QPSK	100	0	Back	5mm	Ant 4	DSI 3	42590	3500	-	1	18.63	20.00	1.371	62.9	1.006	0.15	0.460	0.634
	LTE Band 42	20M	QPSK	1	0	Front	14mm	Ant 4	DSI 4	42590	3500	-	1	19.81	21.00	1.315	62.9	1.006	-0.05	0.056	0.074
	LTE Band 42	20M	QPSK	1	0	Back	14mm	Ant 4	DSI 4	42590	3500	-	1	19.81	21.00	1.315	62.9	1.006	-0.07	0.039	0.052
	LTE Band 42	20M	QPSK	1	0	Front	5mm	Ant 7	DSI 3	42590	3500	-	1	18.81	19.90	1.285	62.9	1.006	-0.17	0.433	0.560
	LTE Band 42	20M	QPSK	50	0	Front	5mm	Ant 7	DSI 3	42590	3500	-	1	18.77	19.90	1.297	62.9	1.006	0.18	0.275	0.359
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3	42590	3500	-	1	18.81	19.90	1.285	62.9	1.006	0.19	0.691	0.893
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3	42190	3460	-	1	18.81	19.90	1.285	62.9	1.006	0.07	0.692	0.895
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3	42190	3460	-	2	18.81	19.90	1.285	62.9	1.006	-0.04	0.662	0.856
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3	42190	3460	-	3	18.81	19.90	1.285	62.9	1.006	-0.02	0.672	0.869
	LTE Band 42C	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3	42190+42388	3460+3479.8	-	1	18.66	19.90	1.33	62.9	1.006	0.04	0.668	0.894
	LTE Band 42	20M	QPSK	1	0	Back	5mm	Ant 7	DSI 3	42990	3540	-	1	18.75	19.90	1.303	62.9	1.006	0.19	0.601	0.788
	LTE Band 42	20M	QPSK	50	0	Back	5mm	Ant 7	DSI 3	42590	3500	-	1	18.77	19.90	1.297	62.9	1.006	0.10	0.444	0.579
	LTE Band 42	20M	QPSK	100	0	Back	5mm	Ant 7	DSI 3	42590	3500	-	1	18.64	19.90	1.337	62.9	1.006	0.07	0.444	0.597
	LTE Band 42	20M	QPSK	1	0	Front	14mm	Ant 7	DSI 4	42590	3500	-	1	23.01	24.00	1.256	62.9	1.006	0.04	0.383	0.484
	LTE Band 42	20M	QPSK	1	0	Back	14mm	Ant 7	DSI 4	42590	3500	-	1	23.01	24.00	1.256	62.9	1.006	0.08	0.621	0.785

[FR1 SAR]

Plo t No	Band	BW	Modulation	RB Siz e	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 1	DSI 3	376000	1880	-	1	16.74	17.60	1.219			-0.16	0.331	0.403
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 1	DSI 3	376000	1880	-	1	16.72	17.60	1.225			-0.02	0.326	0.399
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	376000	1880	-	1	16.74	17.60	1.219			-0.14	0.672	0.819
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	372000	1860	-	1	16.73	17.60	1.222			-0.05	0.703	0.859
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	380000	1900	-	1	16.65	17.60	1.245			-0.10	0.625	0.778
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 1	DSI 3	376000	1880	-	1	16.72	17.60	1.225			-0.14	0.669	0.820
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 1	DSI 3	372000	1860	-	1	16.70	17.60	1.23			0.15	0.648	0.797
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 1	DSI 3	380000	1900	-	1	16.59	17.60	1.262			0.04	0.705	0.890
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 1	DSI 3	380000	1860	-	2	16.59	17.60	1.262			-0.04	0.538	0.679
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 1	DSI 3	380000	1860	-	3	16.59	17.60	1.262			0.07	0.625	0.789
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 1	DSI 3	376000	1880	-	1	16.70	17.60	1.23			0.10	0.551	0.678
	FR1 n2	20M	BPSK	1	1	Front	14mm	Ant 1	DSI 4	376000	1880	-	1	23.07	24.00	1.239			0.16	0.383	0.475
	FR1 n2	20M	BPSK	1	1	Back	14mm	Ant 1	DSI 4	376000	1880	-	1	23.07	24.00	1.239			-0.10	0.621	0.769
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	DSI 3	376000	1880	-	1	22.65	23.50	1.216			-0.06	0.823	1.001
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	DSI 3	372000	1860	-	1	22.59	23.50	1.233			-0.14	0.779	0.961
	FR1 n2	20M	BPSK	1	1	Front	5mm	Ant 2	DSI 3	380000	1900	-	1	22.56	23.50	1.242			0.05	0.768	0.954
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	DSI 3	376000	1880	-	1	22.64	23.50	1.219			0.07	0.829	1.011
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	DSI 3	372000	1860	-	1	22.45	23.50	1.274			-0.12	0.802	1.022
	FR1 n2	20M	BPSK	50	28	Front	5mm	Ant 2	DSI 3	380000	1900	-	1	22.47	23.50	1.268			0.05	0.801	1.016
	FR1 n2	20M	BPSK	100	0	Front	5mm	Ant 2	DSI 3	376000	1880	-	1	22.61	23.50	1.227			-0.07	0.814	0.999
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	DSI 3	376000	1880	-	1	22.65	23.50	1.216			-0.07	0.956	1.162
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	DSI 3	372000	1860	-	1	22.59	23.50	1.233			-0.00	0.925	1.141
	FR1 n2	20M	BPSK	1	1	Back	5mm	Ant 2	DSI 3	380000	1900	-	1	22.56	23.50	1.242			0.06	0.911	1.131
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	376000	1880	-	1	22.64	23.50	1.219			0.01	0.964	1.175
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	372000	1860	-	1	22.45	23.50	1.274			-0.10	0.766	0.976
60	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	380000	1900	-	1	22.47	23.50	1.268			0.06	1.020	1.293
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	380000	1900	Headset	1	22.47	23.50	1.268			-0.11	0.988	1.253
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	380000	1900	-	2	22.47	23.50	1.268			-0.04	0.865	1.097
	FR1 n2	20M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	380000	1900	-	3	22.47	23.50	1.268			-0.07	0.946	1.200
	FR1 n2	20M	BPSK	100	0	Back	5mm	Ant 2	DSI 3	376000	1880	-	1	22.61	23.50	1.227			0.06	0.804	0.987
	FR1 n2	20M	BPSK	1	1	Front	14mm	Ant 2	DSI 4	376000	1880	-	1	23.07	24.00	1.239			0.08	0.202	0.250
	FR1 n2	20M	BPSK	1	1	Back	14mm	Ant 2	DSI 4	376000	1880	-	1	23.07	24.00	1.239			0.01	0.241	0.299
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 1	DSI 3	507000	2535	-	1	16.53	17.60	1.279			-0.17	0.330	0.422
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 1	DSI 3	507000	2535	-	1	16.43	17.60	1.309			0.17	0.369	0.483
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	507000	2535	-	1	16.53	17.60	1.279			-0.09	0.615	0.787
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI 3	507000	2535	-	1	16.43	17.60	1.309			-0.02	0.675	0.884
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI 3	507000	2535	-	2	16.43	17.60	1.309			-0.07	0.666	0.872
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 1	DSI 3	507000	2535	-	3	16.43	17.60	1.309			0.07	0.626	0.819
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 1	DSI 3	507000	2535	-	1	16.40	17.60	1.318			0.16	0.462	0.609
	FR1 n7	50M	BPSK	1	1	Front	14mm	Ant 1	DSI 4	507000	2535	-	1	23.31	24.00	1.172			0.03	0.352	0.413



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	FR1 n7	50M	BPSK	1	1	Back	14mm	Ant 1	DSI 4	507000	2535	-	1	23.31	24.00	1.172			-0.08	0.620	0.727
	FR1 n7	50M	BPSK	1	1	Front	5mm	Ant 2	DSI 3	507000	2535	-	1	22.24	23.30	1.276			-0.07	0.671	0.856
	FR1 n7	50M	BPSK	135	68	Front	5mm	Ant 2	DSI 3	507000	2535	-	1	22.21	23.30	1.285			-0.05	0.622	0.799
	FR1 n7	50M	BPSK	270	0	Front	5mm	Ant 2	DSI 3	507000	2535	-	1	22.12	23.30	1.312			0.10	0.489	0.642
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 2	DSI 3	507000	2535	-	1	22.24	23.30	1.276			-0.06	1.000	1.276
61	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	DSI 3	507000	2535	-	1	22.21	23.30	1.285			0.01	0.995	1.279
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	DSI 3	507000	2535	Headset	1	22.21	23.30	1.285			0.07	0.977	1.255
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	DSI 3	507000	2535	-	2	22.21	23.30	1.285			-0.04	0.779	1.001
	FR1 n7	50M	BPSK	135	68	Back	5mm	Ant 2	DSI 3	507000	2535	-	3	22.21	23.30	1.285			0.07	0.990	1.272
	FR1 n7	50M	BPSK	270	0	Back	5mm	Ant 2	DSI 3	507000	2535	-	1	22.12	23.30	1.312			0.07	0.773	1.014
	FR1 n7	50M	BPSK	1	1	Front	14mm	Ant 2	DSI 4	507000	2535	-	1	23.26	24.00	1.186			-0.08	0.174	0.206
	FR1 n7	50M	BPSK	1	1	Back	14mm	Ant 2	DSI 4	507000	2535	-	1	23.26	24.00	1.186			0.10	0.219	0.260
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 1	DSI 3	349000	1745	-	1	18.26	19.50	1.33			-0.02	0.280	0.372
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 1	DSI 3	349000	1745	-	1	18.17	19.50	1.358			-0.13	0.355	0.482
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	349000	1745	-	1	18.26	19.50	1.33			-0.02	0.555	0.738
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI 3	349000	1745	-	1	18.17	19.50	1.358			0.05	0.658	0.894
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI 3	349000	1745	-	2	18.17	19.50	1.358			0.08	0.598	0.812
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 1	DSI 3	349000	1745	-	3	18.17	19.50	1.358			0.01	0.614	0.834
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 1	DSI 3	349000	1745	-	1	18.09	19.50	1.384			-0.03	0.627	0.868
	FR1 n66	40M	BPSK	1	1	Front	14mm	Ant 1	DSI 4	349000	1745	-	1	23.07	24.00	1.239			-0.18	0.242	0.300
	FR1 n66	40M	BPSK	1	1	Back	14mm	Ant 1	DSI 4	349000	1745	-	1	23.07	24.00	1.239			0.10	0.432	0.535
	FR1 n66	40M	BPSK	1	1	Front	5mm	Ant 2	DSI 3	349000	1745	-	1	23.27	24.00	1.183			-0.01	0.705	0.834
	FR1 n66	40M	BPSK	108	54	Front	5mm	Ant 2	DSI 3	349000	1745	-	1	23.05	24.00	1.245			-0.10	0.833	1.037
	FR1 n66	40M	BPSK	216	0	Front	5mm	Ant 2	DSI 3	349000	1745	-	1	22.59	23.50	1.233			-0.08	0.697	0.859
	FR1 n66	40M	BPSK	1	1	Back	5mm	Ant 2	DSI 3	349000	1745	-	1	23.27	24.00	1.183			-0.09	0.842	0.996
62	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	DSI 3	349000	1745	-	1	23.05	24.00	1.245			-0.09	0.916	1.140
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	DSI 3	349000	1745	-	2	23.05	24.00	1.245			-0.04	0.913	1.137
	FR1 n66	40M	BPSK	108	54	Back	5mm	Ant 2	DSI 3	349000	1745	-	3	23.05	24.00	1.245			0.07	0.907	1.129
	FR1 n66	40M	BPSK	216	0	Back	5mm	Ant 2	DSI 3	349000	1745	-	1	22.59	23.50	1.233			-0.13	0.855	1.054
	FR1 n38	40M	BPSK	1	1	Front	5mm	Ant 2	DSI 3	519000	2595	-	1	22.58	23.40	1.208			0.19	0.600	0.725
	FR1 n38	40M	BPSK	50	28	Front	5mm	Ant 2	DSI 3	519000	2595	-	1	22.55	23.40	1.216			0.04	0.785	0.955
	FR1 n38	40M	BPSK	100	0	Front	5mm	Ant 2	DSI 3	519000	2595	-	1	22.15	23.40	1.334			-0.19	0.655	0.874
	FR1 n38	40M	BPSK	1	1	Back	5mm	Ant 2	DSI 3	519000	2595	-	1	22.58	23.40	1.208			0.11	1.000	1.208
63	FR1 n38	40M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	519000	2595	-	1	22.55	23.40	1.216			-0.15	1.060	1.289
	FR1 n38	40M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	519000	2595	Headset	1	22.55	23.40	1.216			0.06	1.050	1.277
	FR1 n38	40M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	519000	2595	-	2	22.55	23.40	1.216			-0.15	1.010	1.228
	FR1 n38	40M	BPSK	50	28	Back	5mm	Ant 2	DSI 3	519000	2595	-	3	22.55	23.40	1.216			0.01	0.977	1.188
	FR1 n38	40M	BPSK	100	0	Back	5mm	Ant 2	DSI 3	519000	2595	-	1	22.15	23.40	1.334			-0.12	0.953	1.271
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 0	DSI 3	518598	2592.99	-	1	20.28	21.00	1.18			-0.17	0.525	0.619
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 0	DSI 3	518598	2592.99	-	1	20.27	21.00	1.183			-0.05	0.591	0.699
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 0	DSI 3	518598	2592.99	-	1	20.28	21.00	1.18			-0.01	1.060	1.251
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 0	DSI 3	518598	2592.99	-	1	20.27	21.00	1.183			-0.07	1.090	1.289
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 0	DSI 3	518598	2592.99	Headset	1	20.27	21.00	1.183			0.03	1.050	1.242
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 0	DSI 3	518598	2592.99	-	2	20.27	21.00	1.183			-0.01	0.978	1.157
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 0	DSI 3	518598	2592.99	-	3	20.27	21.00	1.183			-0.02	1.030	1.218
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 0	DSI 3	518598	2592.99	-	1	20.23	21.00	1.194			-0.11	0.940	1.122
	FR1 n41	100M	BPSK	1	1	Front	14mm	Ant 0	DSI 4	518598	2592.99	-	1	20.52	21.50	1.253			-0.17	0.082	0.103
	FR1 n41	100M	BPSK	1	1	Back	14mm	Ant 0	DSI 4	518598	2592.99	-	1	20.52	21.50	1.253			-0.03	0.149	0.187
	FR1 n41	100M	BPSK	1	1	Front	5mm	Ant 1	DSI 3	518598	2592.99	-	1	17.15	18.00	1.216			0.06	0.340	0.413
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 1	DSI 3	518598	2592.99	-	1	17.04	18.00	1.247			-0.17	0.317	0.395
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	518598	2592.99	-	1	17.15	18.00	1.216			-0.05	0.734	0.893
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	518598	2592.99	-	2	17.15	18.00	1.216			-0.04	0.722	0.878
	FR1 n41	100M	BPSK	1	1	Back	5mm	Ant 1	DSI 3	518598	2592.99	-	3	17.15	18.00	1.216			0.02	0.676	0.822
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 1	DSI 3	518598	2592.99	-	1	17.04	18.00	1.247			-0.01	0.632	0.788
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 1	DSI 3	518598	2592.99	-	1	16.95	18.00	1.274			-0.04	0.584	0.744
	FR1 n41	100M	BPSK	1	1	Front	14mm	Ant 1	DSI 4	518598	2592.99	-	1	21.45	22.50	1.274			0.14	0.197	0.251
	FR1 n41	100M	BPSK	1	1	Back	14mm	Ant 1	DSI 4	518598	2592.99	-	1	21.45	22.50	1.274			0.11	0.360	0.459
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 2	DSI 3	518598	2592.99	-	1	22.03	23.10	1.279			-0.12	0.867	1.109
	FR1 n41	100M	BPSK	135	69	Front	5mm	Ant 2	DSI 3	518598	2592.99	-	1	21.85	23.10	1.334			-0.05	0.741	0.988
	FR1 n41	100M	BPSK	270	0	Front	5mm	Ant 2	DSI 3	518598	2592.99	-	1	21.78	23.10	1.355			0.02	0.734	0.995
64	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 2	DSI 3	518598	2592.99	-	1	22.03	23.10	1.279			-0.09	1.010	1.292
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 2	DSI 3	518598	2592.99	Headset	1	22.03	23.10	1.279			0.05	0.977	1.250
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 2	DSI 3	518598	2592.99	-	2	22.03	23.10	1.279			-0.04	0.901	1.152
	FR1 n41	100M	BPSK	1	271	Back	5mm	Ant 2	DSI 3	518598	2592.99	-	3	22.03	23.10	1.279			0.07	0.929	1.188
	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 2	DSI 3	518598	2592.99	-	1	21.85	23.10	1.334			0.11	0.903	1.205
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 2	DSI 3	518598	2592.99	-	1	21.78	23.10	1.355			0.00	0.785	1.064
	FR1 n41	100M	BPSK	1	271	Front	14mm	Ant 2	DSI 4	518598	2592.99	-	1	23.04	24.00	1.247			-0.05	0.216	0.269
	FR1 n41	100M	BPSK	1	271	Back	14mm	Ant 2	DSI 4	518598	2592.99	-	1	23.04	24.00	1.247			0.18	0.289	0.360
	FR1 n41	100M	BPSK	1	271	Front	5mm	Ant 9	DSI 3	518598	2592.99	-	1	18.12	19.20	1.282			-0.17	0.417	0.535
	FR1 n41	100M	BPSK	135	69	Front															



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	FR1 n41	100M	BPSK	135	69	Back	5mm	Ant 9	DSI 3	518598	2592.99	-	3	18.10	19.20	1.288			0.07	0.616	0.793
	FR1 n41	100M	BPSK	270	0	Back	5mm	Ant 9	DSI 3	518598	2592.99	-	1	18.07	19.20	1.297			-0.01	0.630	0.817
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 4	DSI 3	656000	3840	-	1	18.87	19.80	1.239			-0.06	0.459	0.569
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 4	DSI 3	656000	3840	-	1	18.78	19.80	1.265			0.09	0.498	0.630
65	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 4	DSI 3	656000	3840	-	1	18.87	19.80	1.239			0.05	0.720	0.892
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 4	DSI 3	656000	3840	-	2	18.87	19.80	1.239			-0.07	0.507	0.628
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 4	DSI 3	656000	3840	-	3	18.87	19.80	1.239			-0.08	0.511	0.633
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 4	DSI 3	656000	3840	-	1	18.78	19.80	1.265			0.05	0.534	0.676
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 4	DSI 3	656000	3840	-	1	18.71	19.80	1.285			-0.17	0.687	0.883
	FR1 n77	100M	BPSK	1	1	Front	14mm	Ant 4	DSI 4	656000	3840	-	1	21.86	22.50	1.159			0.17	0.271	0.314
	FR1 n77	100M	BPSK	1	1	Back	14mm	Ant 4	DSI 4	656000	3840	-	1	21.86	22.50	1.159			-0.05	0.321	0.372
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 5	DSI 3	656000	3840	-	1	17.26	18.40	1.3			0.18	0.460	0.598
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 5	DSI 3	656000	3840	-	1	17.25	18.40	1.303			-0.10	0.382	0.498
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	DSI 3	656000	3840	-	1	17.26	18.40	1.3			0.00	0.682	0.887
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	DSI 3	656000	3840	-	2	17.26	18.40	1.3			-0.04	0.678	0.881
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 5	DSI 3	656000	3840	-	3	17.26	18.40	1.3			-0.04	0.662	0.861
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 5	DSI 3	656000	3840	-	1	17.25	18.40	1.303			0.02	0.495	0.645
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 5	DSI 3	656000	3840	-	1	17.22	18.40	1.312			-0.19	0.456	0.598
	FR1 n77	100M	BPSK	1	1	Front	14mm	Ant 5	DSI 4	656000	3840	-	1	22.15	23.00	1.216			-0.17	0.246	0.299
	FR1 n77	100M	BPSK	1	1	Back	14mm	Ant 5	DSI 4	656000	3840	-	1	22.15	23.00	1.216			0.04	0.354	0.430
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 7	DSI 3	656000	3840	-	1	19.36	20.20	1.213			-0.09	0.373	0.452
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 7	DSI 3	656000	3840	-	1	19.19	20.20	1.262			0.08	0.341	0.430
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 7	DSI 3	656000	3840	-	1	19.36	20.20	1.213			-0.07	0.603	0.731
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI 3	656000	3840	-	1	19.19	20.20	1.262			-0.06	0.704	0.888
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI 3	656000	3840	-	2	19.19	20.20	1.262			-0.07	0.680	0.858
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 7	DSI 3	656000	3840	-	3	19.19	20.20	1.262			0.01	0.698	0.881
	FR1 n77	100M	BPSK	270	0	Back	5mm	Ant 7	DSI 3	656000	3840	-	1	19.08	20.20	1.294			-0.11	0.672	0.870
	FR1 n77	100M	BPSK	1	1	Front	14mm	Ant 7	DSI 4	656000	3840	-	1	23.10	24.00	1.23			0.01	0.373	0.459
	FR1 n77	100M	BPSK	1	1	Back	14mm	Ant 7	DSI 4	656000	3840	-	1	23.10	24.00	1.23			0.10	0.704	0.866
	FR1 n77	100M	BPSK	270	0	Back	14mm	Ant 7	DSI 4	656000	3840	-	1	22.42	23.50	1.282			-0.04	0.617	0.791
	FR1 n77	100M	BPSK	1	1	Front	5mm	Ant 8	DSI 3	656000	3840	-	1	22.79	24.00	1.321			0.00	0.313	0.413
	FR1 n77	100M	BPSK	135	69	Front	5mm	Ant 8	DSI 3	656000	3840	-	1	22.55	24.00	1.396			0.18	0.284	0.396
	FR1 n77	100M	BPSK	1	1	Back	5mm	Ant 8	DSI 3	656000	3840	-	1	22.79	24.00	1.321			0.17	0.398	0.526
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	DSI 3	656000	3840	-	1	22.55	24.00	1.396			-0.09	0.426	0.595
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	DSI 3	656000	3840	-	2	22.55	24.00	1.396			-0.02	0.356	0.497
	FR1 n77	100M	BPSK	135	69	Back	5mm	Ant 8	DSI 3	656000	3840	-	3	22.55	24.00	1.396			0.07	0.384	0.536



[WLAN 2.4GHz_5GHz SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample#	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Body-worn_Standalone	1	2412	-	1	18.53	20.00	1.403	97.45	1.026	-0.12	0.480	0.691
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 3	Body-worn_Simultaneous	1	2412	-	1	14.26	15.50	1.33	97.45	1.026	0.03	0.166	0.227
66	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Body-worn_Standalone	1	2412	-	1	18.53	20.00	1.403	97.45	1.026	-0.07	0.760	1.094
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Body-worn_Standalone	6	2437	-	1	17.73	19.00	1.34	97.45	1.026	-0.09	0.706	0.971
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Body-worn_Standalone	11	2462	-	1	17.66	19.00	1.361	97.45	1.026	0.13	0.738	1.031
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Body-worn_Simultaneous	1	2412	-	1	14.26	15.50	1.33	97.45	1.026	0.02	0.273	0.373
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Body-worn_Standalone	1	2412	-	2	18.53	20.00	1.403	97.45	1.026	0.03	0.694	0.999
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 3	Body-worn_Standalone	1	2412	-	3	18.53	20.00	1.403	97.45	1.026	0.04	0.751	1.081
	WLAN2.4GHz	802.11b 1Mbps	Front	14mm	Ant 3	Full power	1	2412	-	1	18.53	20.00	1.403	97.45	1.026	-0.01	0.095	0.137
	WLAN2.4GHz	802.11b 1Mbps	Back	14mm	Ant 3	Full power	1	2412	-	1	18.53	20.00	1.403	97.45	1.026	-0.04	0.142	0.204
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 4	Body-worn_Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.03	0.296	0.443
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4	Body-worn_Simultaneous	58	5290	-	1	13.98	15.50	1.419	100.0	1.0	0.03	0.112	0.159
67	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.03	0.678	1.015
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	56	5280	-	1	18.22	19.50	1.343	99.32	1.007	0.12	0.514	0.695
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4	Body-worn_Simultaneous	58	5290	-	1	13.98	15.50	1.419	100.0	1.0	0.08	0.276	0.392
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	52	5260	-	2	18.28	20.00	1.486	99.32	1.007	0.06	0.440	0.658
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	52	5260	-	3	18.28	20.00	1.486	99.32	1.007	0.07	0.433	0.648
	WLAN5GHz	802.11a 6Mbps	Front	14mm	Ant 4	Full power	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.02	0.110	0.165
	WLAN5GHz	802.11a 6Mbps	Back	14mm	Ant 4	Full power	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.07	0.159	0.238
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 6	Body-worn_Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	0.08	0.253	0.344
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Body-worn_Simultaneous	58	5290	-	1	14.91	16.00	1.285	100.0	1.0	0.06	0.106	0.136
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.17	0.692	0.942
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	56	5280	-	1	18.54	20.00	1.4	99.32	1.007	-0.01	0.709	1.000
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Body-worn_Simultaneous	58	5290	-	1	14.91	16.00	1.285	100.0	1.0	0.02	0.288	0.370
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	56	5280	-	2	18.54	20.00	1.4	99.32	1.007	-0.11	0.537	0.757
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	56	5280	-	3	18.54	20.00	1.4	99.32	1.007	-0.07	0.508	0.716
	WLAN5GHz	802.11a 6Mbps	Front	14mm	Ant 6	Full power	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.07	0.082	0.112
	WLAN5GHz	802.11a 6Mbps	Back	14mm	Ant 6	Full power	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.04	0.140	0.191
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 4	Body-worn_Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.04	0.651	0.911
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 4	Body-worn_Standalone	132	5660	-	1	18.41	20.00	1.442	99.32	1.007	0.14	0.762	1.106
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4	Body-worn_Simultaneous	106	5530	-	1	13.93	15.00	1.279	100.0	1.0	0.06	0.246	0.315
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.01	0.662	0.927
68	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	132	5660	-	1	18.41	20.00	1.442	99.32	1.007	0.18	0.815	1.183
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4	Body-worn_Simultaneous	106	5530	-	1	13.93	15.00	1.279	100.0	1.0	0.04	0.288	0.368
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	132	5660	-	2	18.41	20.00	1.442	99.32	1.007	0.02	0.693	1.006
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 4	Body-worn_Standalone	132	5660	-	3	18.41	20.00	1.442	99.32	1.007	0.08	0.653	0.948
	WLAN5GHz	802.11a 6Mbps	Front	14mm	Ant 4	Full power	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.07	0.198	0.277
	WLAN5GHz	802.11a 6Mbps	Back	14mm	Ant 4	Full power	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.01	0.147	0.206
	WLAN5GHz	802.11n-HT20 MCS0	Front	5mm	Ant 6	Body-worn_Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.04	0.441	0.614
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Body-worn_Simultaneous	138	5690	-	1	15.33	16.50	1.309	100.0	1.0	0.02	0.162	0.212
	WLAN5GHz	802.11n-HT20 MCS0	Back	5mm	Ant 6	Body-worn_Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.09	0.771	1.074
	WLAN5GHz	802.11n-HT20 MCS0	Back	5mm	Ant 6	Body-worn_Standalone	132	5660	-	1	18.99	20.50	1.416	100.0	1.0	-0.12	0.749	1.061
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Body-worn_Simultaneous	138	5690	-	1	15.33	16.50	1.309	100.0	1.0	0.04	0.286	0.374
	WLAN5GHz	802.11n-HT20 MCS0	Back	5mm	Ant 6	Body-worn_Standalone	144	5720	-	2	19.56	21.00	1.393	100.0	1.0	-0.06	0.739	1.029
	WLAN5GHz	802.11n-HT20 MCS0	Back	5mm	Ant 6	Body-worn_Standalone	144	5720	-	3	19.56	21.00	1.393	100.0	1.0	-0.01	0.752	1.048
	WLAN5GHz	802.11n-HT20 MCS0	Front	14mm	Ant 6	Full power	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.04	0.141	0.196
	WLAN5GHz	802.11n-HT20 MCS0	Back	14mm	Ant 6	Full power	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	0.04	0.119	0.166
	WLAN5GHz	802.11ac-VHT40 MCS0	Front	5mm	Ant 4	Body-worn_Standalone	151	5755	-	1	17.92	19.50	1.439	100.0	1.0	0.13	0.447	0.643
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 4	Body-worn_Simultaneous	155	5775	-	1	15.61	17.00	1.377	100.0	1.0	0.04	0.253	0.348
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	5mm	Ant 4	Body-worn_Standalone	151	5755	-	1	17.92	19.50	1.439	100.0	1.0	0.01	0.495	0.712
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 4	Body-worn_Simultaneous	155	5775	-	1	15.61	17.00	1.377	100.0	1.0	-0.11	0.283	0.390
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	5mm	Ant 4	Body-worn_Standalone	151	5755	-	2	17.92	19.50	1.439	100.0	1.0	0.01	0.486	0.699
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	5mm	Ant 4	Body-worn_Standalone	151	5755	-	3	17.92	19.50	1.439	100.0	1.0	0.11	0.476	0.685
	WLAN5GHz	802.11ac-VHT40 MCS0	Front	14mm	Ant 4	Full power	151	5755	-	1	17.92	19.50	1.439	100.0	1.0	-0.02	0.169	0.243
	WLAN5GHz	802.11ac-VHT40 MCS0	Back	14mm	Ant 4	Full power	151	5755	-	1	17.92	19.50	1.439	100.0	1.0	-0.01	0.119	0.171
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 6	Body-worn_Standalone	149	5745	-	1	19.46	21.00	1.426	99.32	1.007	-0.10	0.671	0.964
	WLAN5GHz	802.11a 6Mbps	Front	5mm	Ant 6	Body-worn_Standalone	165	5825	-	1	19.46	21.00	1.426	99.32	1.007	0.12	0.543	0.780
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Body-worn_Simultaneous	155	5775	-	1	14.15	15.50	1.365	100.0	1.0	0.04	0.176	0.240
69	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	149	5745	-	1	19.46	21.00	1.426	99.32	1.007	-0.01	0.835	1.199
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	165	5825	-	1	19.46	21.00	1.426	99.32	1.007	-0.08	0.607	0.872
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Body-worn_Simultaneous	155	5775	-	1	14.15	15.50	1.365	100.0	1.0	0.05	0.273	0.373
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	149	5745	-	2	19.46	21.00	1.426	99.32	1.007	0.00	0.774	1.111
	WLAN5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Body-worn_Standalone	149											

【Bluetooth SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	Bluetooth	1Mbps	Front	5mm	Ant 3	Full power	39	2441	-	1	16.39	17.00	1.151	77.13	1.08	0.17	0.220	0.273
	Bluetooth	1Mbps	Front	5mm	Ant 3	Bodyworn_Simultaneous	39	2441	-	1	13.71	15.00	1.346	77.13	1.08	0.02	0.123	0.179
70	Bluetooth	1Mbps	Back	5mm	Ant 3	Full power	39	2441	-	1	16.39	17.00	1.151	77.13	1.08	0.15	0.316	0.393
	Bluetooth	1Mbps	Back	5mm	Ant 3	Bodyworn_Simultaneous	39	2441	-	1	13.71	15.00	1.346	77.13	1.08	0.03	0.188	0.273
	Bluetooth	1Mbps	Back	5mm	Ant 3	Full power	39	2441	-	2	16.39	17.00	1.151	77.13	1.08	0.03	0.176	0.219
	Bluetooth	1Mbps	Back	5mm	Ant 3	Full power	39	2441	-	3	16.39	17.00	1.151	77.13	1.08	0.08	0.169	0.210
	Bluetooth	1Mbps	Front	14mm	Ant 3	Full power	39	2441	-	1	16.39	17.00	1.151	77.13	1.08	-0.05	0.049	0.061
	Bluetooth	1Mbps	Back	14mm	Ant 3	Full power	39	2441	-	1	16.39	17.00	1.151	77.13	1.08	-0.02	0.083	0.103

Plot No.	Band	BW (MHz)	Mode	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	Measured APD (W/m^2)
	WLAN6GHz	802.11AX-HE80 MCS0	Front	5mm	Ant 4	Body-worn Standalone	7	5985	1	17.48	19.00	1.419	100	1.000	0.17	0.198	0.281	1.31
71	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	7	5985	1	17.48	19.00	1.419	100	1.000	0.02	0.484	0.687	3.21
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Simultaneous	7	5985	1	14.93	16.50	1.435	100	1.000	0.08	0.272	0.390	1.8
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	7	5985	2	17.48	19.00	1.419	100	1.000	-0.05	0.429	0.609	2.85
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	7	5985	3	17.48	19.00	1.419	100	1.000	0.07	0.417	0.592	2.77
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	87	6385	1	16.04	17.50	1.400	100	1.000	0.01	0.258	0.361	1.71
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	103	6465	1	15.87	17.50	1.455	100	1.000	0.1	0.283	0.412	1.88
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Simultaneous	103	6465	1	15.30	17.00	1.479	100	1.000	0.06	0.255	0.377	1.69
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	135	6625	1	15.96	17.50	1.426	100	1.000	-0.17	0.256	0.365	1.7
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	215	7025	1	16.85	18.50	1.462	100	1.000	-0.05	0.337	0.493	2.24
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Simultaneous	215	7025	1	15.88	17.50	1.452	100	1.000	0.05	0.266	0.386	1.76
	WLAN6GHz	802.11AX-HE80 MCS0	Front	14mm	Ant 4	Full power	7	5985	1	17.48	19.00	1.419	100	1.000	0.05	0.034	0.048	0.225
	WLAN6GHz	802.11AX-HE80 MCS0	Back	14mm	Ant 4	Full power	7	5985	1	17.48	19.00	1.419	100	1.000	0.01	0.094	0.133	0.623
	WLAN6GHz	802.11AX-HE80 MCS0	Front	5mm	Ant 6	Body-worn Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.04	0.092	0.128	0.704
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	-0.01	0.189	0.264	1.45
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	7	5985	1	17.12	18.50	1.374	100	1.000	-0.18	0.324	0.445	2.48
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Simultaneous	7	5985	1	16.66	18.00	1.361	100	1.000	0.02	0.277	0.377	2.12
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	7	5985	2	17.12	18.50	1.374	100	1.000	0.02	0.321	0.441	2.46
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	7	5985	3	17.12	18.50	1.374	100	1.000	-0.07	0.314	0.431	2.4
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	87	6385	1	16.85	18.50	1.462	100	1.000	-0.08	0.167	0.244	1.28
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	119	6545	1	17.03	18.50	1.403	100	1.000	0.05	0.122	0.171	0.934
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	135	6625	1	17.29	18.50	1.321	100	1.000	0.06	0.063	0.083	0.482
	WLAN6GHz	802.11AX-HE80 MCS0	Front	14mm	Ant 6	Full power	215	7025	1	19.05	20.50	1.396	100	1.000	0.02	0.046	0.064	0.352
	WLAN6GHz	802.11AX-HE80 MCS0	Back	14mm	Ant 6	Full power	215	7025	1	19.05	20.50	1.396	100	1.000	0.11	0.065	0.091	0.498

16.4 Product specific 10g SAR

【GSM SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
72	GSM850	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	189	836.4	1	28.88	30.00	1.294	0.03	1.140	1.475
	GSM850	GPRS 3 Tx slots	Top Side	0mm	Ant 1	DSI 6	189	836.4	1	28.88	30.00	1.294	-0.03	0.965	1.249
	GSM850	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	189	836.4	2	28.88	30.00	1.294	0.01	1.030	1.333
	GSM850	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	189	836.4	3	28.88	30.00	1.294	-0.06	1.090	1.410
73	GSM1900	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	661	1880	1	24.32	25.00	1.169	-0.11	1.620	1.894
	GSM1900	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	661	1880	2	24.32	25.00	1.169	0.03	0.997	1.165
	GSM1900	GPRS 3 Tx slots	Back	0mm	Ant 1	DSI 6	661	1880	3	24.32	25.00	1.169	-0.04	1.200	1.403
	GSM1900	GPRS 3 Tx slots	Top Side	0mm	Ant 1	DSI 6	661	1880	1	24.32	25.00	1.169	0.16	1.430	1.672

【WCDMA SAR】

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	9400	1880	1	20.24	21.50	1.337	0.14	1.200	1.604
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9400	1880	1	20.24	21.50	1.337	0.06	1.840	2.460
74	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	1	20.16	21.50	1.361	-0.09	1.880	2.559
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9538	1907.6	1	20.10	21.50	1.38	-0.00	1.760	2.429
	WCDMA II	RMC 12.2Kbps	Left Side	0mm	Ant 1	DSI 6	9400	1880	1	20.24	21.50	1.337	0.04	0.835	1.116
	WCDMA II	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	9400	1880	1	20.24	21.50	1.337	-0.09	1.380	1.845
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	2	20.16	21.50	1.361	0.02	1.770	2.409
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	9262	1852.4	3	20.16	21.50	1.361	0.03	1.680	2.286
	WCDMA II	RMC 12.2Kbps	Front	6mm	Ant 1	DSI 4	9400	1880	1	23.04	24.00	1.247	0.14	0.819	1.021
	WCDMA II	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	9400	1880	1	23.04	24.00	1.247	0.06	0.620	0.773
	WCDMA II	RMC 12.2Kbps	Left Side	8mm	Ant 1	DSI 4	9400	1880	1	23.04	24.00	1.247	0.04	0.392	0.489
	WCDMA II	RMC 12.2Kbps	Top Side	9mm	Ant 1	DSI 4	9400	1880	1	23.04	24.00	1.247	-0.09	0.753	0.939
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9400	1880	1	23.28	24.00	1.18	-0.19	2.150	2.537
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9262	1852.4	1	23.17	24.00	1.211	-0.15	2.070	2.507
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9538	1907.6	1	23.18	24.00	1.208	0.14	2.090	2.525
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	9400	1880	1	23.28	24.00	1.18	0.18	1.210	1.428
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9400	1880	2	23.28	24.00	1.18	0.03	2.080	2.454
	WCDMA II	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	9400	1880	3	23.28	24.00	1.18	0.01	2.010	2.372
	WCDMA IV	RMC 12.2Kbps	Front	0mm	Ant 1	DSI 6	1413	1732.6	1	20.71	22.00	1.346	0.05	0.796	1.071
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1413	1732.6	1	20.71	22.00	1.346	-0.02	1.500	2.019
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1312	1712.4	1	20.61	22.00	1.377	0.01	0.931	1.282
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	1	20.63	22.00	1.371	-0.12	1.850	2.536
	WCDMA IV	RMC 12.2Kbps	Top Side	0mm	Ant 1	DSI 6	1413	1732.6	1	20.71	22.00	1.346	-0.11	1.240	1.669
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	2	20.63	22.00	1.371	0.05	1.810	2.482
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	1513	1752.6	3	20.63	22.00	1.371	0.02	1.980	2.715
	WCDMA IV	RMC 12.2Kbps	Front	6mm	Ant 1	DSI 4	1413	1732.6	1	22.92	24.00	1.282	0.05	0.619	0.794
	WCDMA IV	RMC 12.2Kbps	Back	10mm	Ant 1	DSI 4	1413	1732.6	1	22.92	24.00	1.282	-0.02	0.532	0.682
	WCDMA IV	RMC 12.2Kbps	Top Side	9mm	Ant 1	DSI 4	1413	1732.6	1	22.92	24.00	1.282	-0.11	0.440	0.564
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1413	1732.6	1	23.14	24.00	1.219	0.02	2.290	2.792
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1312	1712.4	1	23.08	24.00	1.236	0.03	2.170	2.682
75	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1513	1752.6	1	22.84	24.00	1.306	-0.06	2.310	3.017
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	Ant 2	DSI 6	1413	1732.6	1	23.14	24.00	1.219	-0.09	1.580	1.926
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1513	1752.6	2	22.84	24.00	1.306	0.09	2.190	2.860
	WCDMA IV	RMC 12.2Kbps	Back	0mm	Ant 2	DSI 6	1513	1752.6	3	22.84	24.00	1.306	0.06	2.130	2.782
76	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	1	23.32	24.00	1.169	-0.09	1.520	1.777
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	2	23.32	24.00	1.169	0.03	1.440	1.683
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 0	DSI 6	4182	836.4	3	23.32	24.00	1.169	0.01	1.450	1.695
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	4182	836.4	1	23.41	24.00	1.146	0.08	1.230	1.410
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	4182	836.4	2	23.41	24.00	1.146	0.03	1.250	1.432
	WCDMA V	RMC 12.2Kbps	Back	0mm	Ant 1	DSI 6	4182	836.4	3	23.41	24.00	1.146	0.03	1.380	1.581



【LTE SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	0mm	Ant 0	DSI 6	18900	1880	1	20.56	21.50	1.242			0.06	1.150	1.428
	LTE Band 2	20M	QPSK	50	0	Front	0mm	Ant 0	DSI 6	18900	1880	1	20.54	21.50	1.247			-0.07	0.755	0.941
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	18900	1880	1	20.56	21.50	1.242			-0.15	2.160	2.683
77	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	18700	1860	1	20.42	21.50	1.282			0.02	2.510	3.218
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	19100	1900	1	20.38	21.50	1.294			0.11	1.940	2.510
	LTE Band 2	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	18900	1880	1	20.54	21.50	1.247			-0.06	1.410	1.758
	LTE Band 2	20M	QPSK	100	0	Back	0mm	Ant 0	DSI 6	18900	1880	1	20.41	21.50	1.285			0.12	1.410	1.812
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 0	DSI 6	18900	1880	1	20.56	21.50	1.242			-0.06	0.974	1.210
	LTE Band 2	20M	QPSK	50	0	Left Side	0mm	Ant 0	DSI 6	18900	1880	1	20.54	21.50	1.247			-0.18	0.637	0.794
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	20.56	21.50	1.242			0.19	1.210	1.503
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	Ant 0	DSI 6	18900	1880	1	20.54	21.50	1.247			-0.06	0.787	0.981
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	18700	1860	2	20.42	21.50	1.282			0.03	2.110	2.705
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	18700	1860	3	20.42	21.50	1.282			0.01	1.940	2.487
	LTE Band 2C	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	18700+18898	1860+1879.8	1	20.30	21.50	1.318			0.06	2.230	2.939
	LTE Band 2	20M	QPSK	1	0	Front	5mm	Ant 0	DSI 4	18900	1880	1	22.29	23.00	1.178			-0.07	0.740	0.872
	LTE Band 2	20M	QPSK	1	0	Left Side	8mm	Ant 0	DSI 4	18900	1880	1	22.29	23.00	1.178			-0.18	0.387	0.456
	LTE Band 2	20M	QPSK	1	0	Bottom Side	9mm	Ant 0	DSI 4	18900	1880	1	22.29	23.00	1.178			0.19	0.580	0.683
	LTE Band 2	20M	QPSK	1	0	Back	11mm	Ant 0	DSI 4	18700	1860	1	22.24	23.00	1.191			-0.15	0.650	0.774
	LTE Band 2	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	18900	1880	1	20.85	22.00	1.303			-0.12	1.320	1.720
	LTE Band 2	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	18900	1880	1	20.80	22.00	1.318			0.15	0.859	1.132
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	18900	1880	1	20.85	22.00	1.303			-0.07	1.830	2.384
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	18700	1860	1	20.81	22.00	1.315			-0.01	2.000	2.630
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	19100	1900	1	20.74	22.00	1.337			0.14	1.760	2.353
	LTE Band 2	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	18900	1880	1	20.80	22.00	1.318			0.04	1.200	1.582
	LTE Band 2	20M	QPSK	100	0	Back	0mm	Ant 1	DSI 6	18900	1880	1	20.79	22.00	1.321			-0.05	1.190	1.572
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 6	18900	1880	1	20.85	22.00	1.303			-0.16	0.809	1.054
	LTE Band 2	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSI 6	18900	1880	1	20.80	22.00	1.318			-0.09	0.531	0.700
	LTE Band 2	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	18900	1880	1	20.85	22.00	1.303			0.14	1.470	1.915
	LTE Band 2	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	18900	1880	1	20.80	22.00	1.318			-0.04	0.958	1.263
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	18700	1860	2	20.81	22.00	1.315			0.05	1.630	2.143
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	18700	1860	3	20.81	22.00	1.315			0.03	1.980	2.604
	LTE Band 2C	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	18700+18898	1860+1879.8	1	20.72	22.00	1.343			0.05	1.860	2.498
	LTE Band 2	20M	QPSK	1	0	Front	6mm	Ant 1	DSI 4	18900	1880	1	22.71	24.00	1.346			0.15	0.847	1.140
	LTE Band 2	20M	QPSK	1	0	Left Side	8mm	Ant 1	DSI 4	18900	1880	1	22.71	24.00	1.346			-0.09	0.383	0.516
	LTE Band 2	20M	QPSK	1	0	Top Side	9mm	Ant 1	DSI 4	18900	1880	1	22.71	24.00	1.346			0.14	0.775	1.043
	LTE Band 2	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	18700	1860	1	22.64	24.00	1.368			-0.07	0.650	0.889
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	1	22.92	24.00	1.282			-0.04	1.130	1.449
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	1	21.79	23.00	1.321			-0.02	0.732	0.967
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	2	22.92	24.00	1.282			0.09	0.997	1.278
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	18900	1880	3	22.92	24.00	1.282			0.02	1.090	1.397
	LTE Band 2C	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	18900+19098	1880+1899.8	1	22.73	24.00	1.34			0.06	1.060	1.420
	LTE Band 2	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	18900	1880	1	20.14	21.10	1.247			-0.07	1.030	1.284
	LTE Band 2	20M	QPSK	50	0	Back	0mm	Ant 9	DSI 6	18900	1880	1	20.10	21.10	1.259			-0.13	0.605	0.762
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	18900	1880	1	20.14	21.10	1.247			0.06	1.780	2.220
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	18700	1860	1	20.04	21.10	1.276			-0.17	1.580	2.016
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	19100	1900	1	19.96	21.10	1.3			-0.03	1.910	2.483
	LTE Band 2	20M	QPSK	50	0	Left Side	0mm	Ant 9	DSI 6	18900	1880	1	20.10	21.10	1.259			-0.17	1.170	1.473
	LTE Band 2	20M	QPSK	100	0	Left Side	0mm	Ant 9	DSI 6	18900	1880	1	20.08	21.10	1.265			-0.15	1.150	1.455
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	19100	1900	2	19.96	21.10	1.3			0.05	1.860	2.418
	LTE Band 2	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	19100	1900	3	19.96	21.10	1.3			0.03	1.800	2.340
	LTE Band 2C	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	19100+18902	1900+1919.8	1	19.92	21.10	1.312			0.05	1.860	2.440
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21100	2535	1	21.24	22.00	1.191			0.12	2.340	2.787
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	20850	2510	1	21.18	22.00	1.208			-0.08	2.240	2.706
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21350	2560	1	21.10	22.00	1.23			-0.06	2.450	3.014
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	21100	2535	1	21.15	22.00	1.216			0.15	1.450	1.763
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 0	DSI 6	21100	2535	1	20.97	22.00	1.268			-0.17	1.450	1.839
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	1	21.24	22.00	1.191			0.18	1.650	1.965
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 0	DSI 6	21100	2535	1	21.15	22.00	1.216			0.16	1.050	1.277
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21350	2560	2	21.10	22.00	1.23			-0.06	2.350	2.890
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21350	2560	3	21.10	22.00	1.23			0.01	2.410	2.964
	LTE Band 7	20M	QPSK	1	0	Back	11mm	Ant 0	DSI 4	21350	2560	1	22.71	24.00	1.346			-0.06	0.202	0.272
	LTE Band 7	20M	QPSK	1	0	Bottom Side	9mm	Ant 0	DSI 4	21350	2560	1	22.71	24.00	1.346			0.17	0.265	0.357
	LTE Band 7C	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	21350+21152	2560+2540.2	1	21.07	22.00	1.239			0.09	2.270	2.813
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	21100	2535	1	20.22	20.90	1.169			-0.15	1.840	2.151
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	20850	2510	1	20.20	20.90	1.175			0.18	1.830	2.150
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	21350	2560	1	20.17	20.90	1.183			0.14	1.840	2.177
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	21100	2535	1	20.19	20.90	1.178			-0.05	1.170	1.378



FCC SAR Test Report

Report No. : FA5O2822-02

	LTE Band 7	20M	QPSK	100	0	Front	0mm	Ant 1	DSI 6	21100	2535	1	20.05	20.90	1.216			0.19	1.190	1.447
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	21100	2535	1	20.22	20.90	1.169			0.05	1.900	2.221
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	20850	2510	1	20.20	20.90	1.175			0.09	1.930	2.268
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	21350	2560	1	20.17	20.90	1.183			-0.09	1.980	2.342
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	21100	2535	1	20.19	20.90	1.178			0.09	1.190	1.402
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 1	DSI 6	21100	2535	1	20.05	20.90	1.216			-0.04	1.180	1.435
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 6	21100	2535	1	20.22	20.90	1.169			0.18	0.811	0.948
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSI 6	21100	2535	1	20.19	20.90	1.178			0.03	0.535	0.630
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21100	2535	1	20.22	20.90	1.169			-0.14	1.780	2.081
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	20850	2510	1	20.20	20.90	1.175			-0.08	1.850	2.174
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21350	2560	1	20.17	20.90	1.183			-0.01	2.070	2.449
	LTE Band 7	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	21100	2535	1	20.19	20.90	1.178			-0.13	1.050	1.237
	LTE Band 7	20M	QPSK	100	0	Top Side	0mm	Ant 1	DSI 6	21100	2535	1	20.05	20.90	1.216			0.12	1.050	1.277
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21350	2560	2	20.17	20.90	1.183			0.03	1.370	1.621
	LTE Band 7	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21350	2560	3	20.17	20.90	1.183			0.05	1.410	1.668
	LTE Band 7C	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	21350+21152	2560+2540.2	1	20.07	20.90	1.211			0.08	1.890	2.289
	LTE Band 7	20M	QPSK	1	0	Front	6mm	Ant 1	DSI 4	21100	2535	1	23.37	24.00	1.156			-0.15	0.865	1.000
	LTE Band 7	20M	QPSK	1	0	Left Side	8mm	Ant 1	DSI 4	21100	2535	1	23.37	24.00	1.156			0.18	0.274	0.317
	LTE Band 7	20M	QPSK	1	0	Top Side	9mm	Ant 1	DSI 4	21100	2535	1	23.37	24.00	1.156			0.02	0.884	1.022
	LTE Band 7	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	21350	2560	1	23.12	24.00	1.225			-0.09	0.632	0.774
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 2	DSI 6	21100	2535	1	23.37	24.00	1.156			0.12	1.500	1.734
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 2	DSI 6	21100	2535	1	22.34	23.00	1.164			-0.03	0.954	1.110
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	21100	2535	1	23.37	24.00	1.156			-0.12	2.580	2.982
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	20850	2510	1	23.10	24.00	1.23			-0.10	2.460	3.026
78	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	21350	2560	1	23.31	24.00	1.172			-0.05	2.610	3.059
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6	21100	2535	1	22.34	23.00	1.164			0.08	1.650	1.921
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 2	DSI 6	21100	2535	1	22.28	23.00	1.18			0.03	1.640	1.935
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	1	23.37	24.00	1.156			-0.10	2.120	2.451
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	20850	2510	1	23.10	24.00	1.23			-0.06	2.050	2.521
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	21350	2560	1	23.31	24.00	1.172			0.14	2.380	2.789
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	1	22.34	23.00	1.164			0.05	1.390	1.618
	LTE Band 7	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	DSI 6	21100	2535	1	22.28	23.00	1.18			0.09	1.390	1.640
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	21350	2560	2	23.31	24.00	1.172			0.09	2.020	2.367
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	21350	2560	3	23.31	24.00	1.172			0.01	2.190	2.567
	LTE Band 7C	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	21350+21152	2560+2540.2	1	23.17	24.00	1.211			0.06	2.430	2.943
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 9	DSI 6	21100	2535	1	18.08	19.00	1.236			-0.14	0.658	0.813
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 9	DSI 6	21100	2535	1	18.00	19.00	1.259			-0.12	0.422	0.531
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	21100	2535	1	18.08	19.00	1.236			0.08	1.340	1.656
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 9	DSI 6	21100	2535	1	18.00	19.00	1.259			-0.11	0.927	1.167
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	21100	2535	1	18.08	19.00	1.236			0.11	1.740	2.151
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	20850	2510	1	18.05	19.00	1.245			-0.14	1.820	2.266
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	21350	2560	1	18.02	19.00	1.253			0.13	1.570	1.967
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 9	DSI 6	21100	2535	1	18.00	19.00	1.259			0.18	1.110	1.397
	LTE Band 7	20M	QPSK	100	0	Left Side	0mm	Ant 9	DSI 6	21100	2535	1	17.75	19.00	1.334			0.01	1.010	1.347
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	20850	2510	2	18.05	19.00	1.245			0.05	1.490	1.855
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	20850	2510	3	18.05	19.00	1.245			0.07	1.710	2.129
	LTE Band 7C	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	20850+21048	2510+2529.8	1	17.92	19.00	1.282			0.07	1.670	2.141
79	LTE Band 13	10M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	23230	782	1	23.15	24.00	1.216			0.02	2.060	2.505
	LTE Band 13	10M	QPSK	25	0	Back	0mm	Ant 1	DSI 6	23230	782	1	22.13	23.00	1.222			0.15	1.050	1.283
	LTE Band 13	10M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	23230	782	1	22.06	23.00	1.242			-0.16	1.040	1.292
	LTE Band 13	10M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	23230	782	2	23.15	24.00	1.216			0.05	1.480	1.800
	LTE Band 13	10M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	23230	782	3	23.15	24.00	1.216			0.01	1.960	2.383
80	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	26865	831.5	1	23.14	24.00	1.219			-0.18	1.660	2.024
	LTE Band 26	15M	QPSK	36	0	Back	0mm	Ant 1	DSI 6	26865	831.5	1	22.10	23.00	1.23			0.06	1.390	1.710
	LTE Band 26	15M	QPSK	75	0	Back	0mm	Ant 1	DSI 6	26865	831.5	1	22.13	23.00	1.222			-0.06	1.420	1.735
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	26865	831.5	2	23.14	24.00	1.219			0.03	1.270	1.548
	LTE Band 26	15M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	26865	831.5	3	23.14	24.00	1.219			0.05	1.590	1.938
	LTE Band 66	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	132322	1745	1	21.25	22.00	1.189			-0.13	1.250	1.486
	LTE Band 66	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	132322	1745	1	21.14	22.00	1.219			-0.00	0.841	1.025
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132322	1745	1	21.25	22.00	1.189			-0.08	2.070	2.461
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132072	1720	1	21.23	22.00	1.194			0.16	1.970	2.352
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132572	1770	1	21.17	22.00	1.211			-0.08	1.920	2.325
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	132322	1745	1	21.14	22.00	1.219			0.06	1.340	1.633
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Ant 1	DSI 6	132322	1745	1	21.05	22.00	1.245			0.14	1.300	1.619
	LTE Band 66	20M	QPSK	1	0	Left Side	0mm	Ant 1	DSI 6	132322	1745	1	21.25	22.00	1.189			-0.05	0.982	1.168
	LTE Band 66	20M	QPSK	50	0	Left Side	0mm	Ant 1	DSI 6	132322	1745	1	21.14	22.00	1.219			-0.03	0.641	0.781
	LTE Band 66	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	21.25	22.00	1.189			0.08	1.590	1.891
	LTE Band 66	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	132322	1745	1	21.14	22.00	1.219			0.11	1.010	1.231
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132322	1745	2	21.25	22.00	1.189			0.03	1.870	2.223
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132322	1745	3	21.25	22.00	1.189			0.02	1.740	2.069
	LTE Band 66C	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	132322+132124	1745+1725.2	1	21.17	22.00	1.211			-0.08	1.880	2.277
	LTE Band 66	20M	QPSK	1	0	Front	6mm	Ant 1	DSI 4	132322	1745	1	22.79	24.00	1.321			-0.13	0.783	1.034
	LTE Band 66	20M	QPSK	1	0	Back	10													



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	LTE Band 66	20M	QPSK	1	0	Left Side	8mm	Ant 1	DSI 4	132322	1745	1	22.79	24.00	1.321			-0.05	0.339	0.448
	LTE Band 66	20M	QPSK	1	0	Top Side	9mm	Ant 1	DSI 4	132322	1745	1	22.79	24.00	1.321			-0.16	0.578	0.764
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132322	1745	1	22.75	24.00	1.334			0.16	1.520	2.028
81	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132072	1720	1	22.62	24.00	1.374			0.16	2.100	2.885
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132572	1770	1	22.67	24.00	1.358			-0.03	1.480	2.010
	LTE Band 66	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6	132322	1745	1	21.72	23.00	1.343			-0.15	0.997	1.339
	LTE Band 66	20M	QPSK	100	0	Back	0mm	Ant 2	DSI 6	132322	1745	1	21.80	23.00	1.318			-0.04	0.997	1.314
	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	1	22.75	24.00	1.334			0.08	1.050	1.401
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	132322	1745	1	21.72	23.00	1.343			-0.17	0.668	0.897
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132072	1720	2	22.62	24.00	1.374			0.03	1.980	2.721
	LTE Band 66	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132072	1720	3	22.62	24.00	1.374			0.06	1.860	2.556
	LTE Band 66C	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	132072+132270	1720+1739.8	1	22.53	24.00	1.403			-0.08	1.960	2.750
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	40620	2593	1	22.77	23.70	1.239	62.9	1.006	-0.18	2.410	3.004
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	39750	2506	1	22.72	23.70	1.253	62.9	1.006	0.08	2.250	2.836
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	40185	2549.5	1	22.66	23.70	1.271	62.9	1.006	0.13	2.480	3.171
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	41055	2636.5	1	22.75	23.70	1.245	62.9	1.006	0.18	2.460	3.081
82	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	41490	2680	1	22.67	23.70	1.268	62.9	1.006	-0.06	2.530	3.227
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	40620	2593	1	21.71	23.00	1.346	62.9	1.006	-0.17	1.560	2.112
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	39750	2506	1	21.60	23.00	1.38	62.9	1.006	0.17	1.430	1.985
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	40185	2549.5	1	21.53	23.00	1.403	62.9	1.006	0.18	1.510	2.131
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	41055	2636.5	1	21.57	23.00	1.39	62.9	1.006	0.18	1.730	2.419
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 0	DSI 6	41490	2680	1	21.59	23.00	1.384	62.9	1.006	-0.14	1.780	2.478
	LTE Band 41	20M	QPSK	100	0	Back	0mm	Ant 0	DSI 6	40620	2593	1	21.67	23.00	1.358	62.9	1.006	0.18	1.550	2.118
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	41490	2680	2	22.67	23.70	1.268	62.9	1.006	0.03	2.280	2.908
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 0	DSI 6	41490	2680	3	22.67	23.70	1.268	62.9	1.006	0.05	2.280	2.908
	LTE Band 41	20M	QPSK	1	0	Back	11mm	Ant 0	DSI 4	41490	2680	1	22.67	24.00	1.358	62.9	1.006	0.05	0.147	0.201
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.04	1.760	2.224
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	39750	2506	1	21.99	23.00	1.262	62.9	1.006	0.15	1.790	2.273
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	40185	2549.5	1	21.87	23.00	1.297	62.9	1.006	0.02	1.810	2.362
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	41055	2636.5	1	21.96	23.00	1.271	62.9	1.006	0.14	1.150	1.470
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 1	DSI 6	41490	2680	1	21.85	23.00	1.303	62.9	1.006	-0.11	1.040	1.363
	LTE Band 41	20M	QPSK	50	0	Front	0mm	Ant 1	DSI 6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	0.00	1.160	1.476
	LTE Band 41	20M	QPSK	100	0	Front	0mm	Ant 1	DSI 6	40620	2593	1	21.96	23.00	1.271	62.9	1.006	0.01	1.160	1.483
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.14	1.530	1.933
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	39750	2506	1	21.99	23.00	1.262	62.9	1.006	0.12	1.560	1.981
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	40185	2549.5	1	21.87	23.00	1.297	62.9	1.006	0.17	1.700	2.218
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	41055	2636.5	1	21.96	23.00	1.271	62.9	1.006	-0.15	1.230	1.573
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 1	DSI 6	41490	2680	1	21.85	23.00	1.303	62.9	1.006	-0.17	1.100	1.442
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 1	DSI 6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	-0.11	1.090	1.387
	LTE Band 41	20M	QPSK	100	0	Back	0mm	Ant 1	DSI 6	40620	2593	1	21.96	23.00	1.271	62.9	1.006	-0.15	1.090	1.394
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	40620	2593	1	22.01	23.00	1.256	62.9	1.006	0.13	1.740	2.199
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	39750	2506	1	21.99	23.00	1.262	62.9	1.006	-0.03	1.890	2.399
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	40185	2549.5	1	21.87	23.00	1.297	62.9	1.006	-0.00	1.530	1.996
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	41055	2636.5	1	21.96	23.00	1.271	62.9	1.006	0.02	1.820	2.327
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	41490	2680	1	21.85	23.00	1.303	62.9	1.006	-0.06	1.550	2.032
	LTE Band 41	20M	QPSK	50	0	Top Side	0mm	Ant 1	DSI 6	40620	2593	1	21.98	23.00	1.265	62.9	1.006	-0.02	1.100	1.400
	LTE Band 41	20M	QPSK	100	0	Top Side	0mm	Ant 1	DSI 6	40620	2593	1	21.96	23.00	1.271	62.9	1.006	-0.11	1.100	1.406
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	39750	2506	2	21.99	23.00	1.262	62.9	1.006	0.01	1.390	1.765
	LTE Band 41	20M	QPSK	1	0	Top Side	0mm	Ant 1	DSI 6	39750	2506	3	21.99	23.00	1.262	62.9	1.006	-0.06	1.330	1.689
	LTE Band 41	20M	QPSK	1	0	Front	6mm	Ant 1	DSI 4	40620	2593	1	23.37	24.00	1.156	62.9	1.006	0.02	0.506	0.588
	LTE Band 41	20M	QPSK	1	0	Back	10mm	Ant 1	DSI 4	40620	2593	1	23.37	24.00	1.156	62.9	1.006	0.17	0.388	0.451
	LTE Band 41	20M	QPSK	1	0	Top Side	9mm	Ant 1	DSI 4	39750	2506	1	23.25	24.00	1.189	62.9	1.006	-0.03	0.172	0.206
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	40620	2593	1	23.41	24.00	1.146	62.9	1.006	-0.10	1.960	2.260
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	39750	2506	1	22.91	24.00	1.285	62.9	1.006	0.16	1.790	2.314
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	40185	2549.5	1	23.27	24.00	1.183	62.9	1.006	-0.02	1.890	2.249
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	41055	2636.5	1	23.13	24.00	1.222	62.9	1.006	0.09	1.880	2.311
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	DSI 6	41490	2680	1	23.37	24.00	1.156	62.9	1.006	0.06	1.660	1.930
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 2	DSI 6	40620	2593	1	22.25	23.00	1.189	62.9	1.006	-0.06	1.270	1.519
	LTE Band 41	20M	QPSK	100	0	Back	0mm	Ant 2	DSI 6	40620	2593	1	22.16	23.00	1.213	62.9	1.006	-0.12	1.260	1.538
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	1	23.41	24.00	1.146	62.9	1.006	0.17	2.070	2.386
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	39750	2506	1	22.91	24.00	1.285	62.9	1.006	0.16	1.690	2.185
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	40185	2549.5	1	23.27	24.00	1.183	62.9	1.006	-0.13	1.900	2.261
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	41055	2636.5	1	23.13	24.00	1.222	62.9	1.006	-0.04	2.020	2.483
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	DSI 6	41490	2680	1	23.37	24.00	1.156	62.9	1.006	-0.07	1.890	2.198
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	40620	2593	1	22.25	23.00	1.189	62.9	1.006	0.07	1.360	1.627
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	39750	2506	1	21.73	23.00	1.34	62.9	1.006	-0.08	1.070	1.442
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	40185	2549.5	1	22.07	23.00	1.239	62.9	1.006	-0.05	1.190	1.483
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	41055	2636.5	1	21.91	23.00	1.285	62.9	1.006	0.16	1.310	1.693
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	DSI 6	41490										



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	LTE Band 41	20M	QPSK	50	0	Front	0mm	Ant 9	DSI 6	40620	2593	1	20.41	21.50	1.285	62.9	1.006	0.13	0.416	0.538
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	40620	2593	1	20.52	21.50	1.253	62.9	1.006	-0.03	1.310	1.651
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	39750	2506	1	20.42	21.50	1.282	62.9	1.006	-0.12	1.370	1.767
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	40185	2549.5	1	20.44	21.50	1.276	62.9	1.006	-0.15	1.420	1.823
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	41055	2636.5	1	20.36	21.50	1.3	62.9	1.006	0.03	1.180	1.543
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 9	DSI 6	41490	2680	1	20.34	21.50	1.306	62.9	1.006	-0.07	0.980	1.288
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 9	DSI 6	40620	2593	1	20.41	21.50	1.285	62.9	1.006	-0.17	0.856	1.107
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	40620	2593	1	20.52	21.50	1.253	62.9	1.006	0.17	1.440	1.815
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	39750	2506	1	20.42	21.50	1.282	62.9	1.006	-0.12	1.840	2.373
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	40185	2549.5	1	20.44	21.50	1.276	62.9	1.006	-0.03	1.850	2.375
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	41055	2636.5	1	20.36	21.50	1.3	62.9	1.006	-0.11	1.290	1.687
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 6	41490	2680	1	20.34	21.50	1.306	62.9	1.006	0.10	1.090	1.432
	LTE Band 41	20M	QPSK	50	0	Left Side	0mm	Ant 9	DSI 6	40620	2593	1	20.41	21.50	1.285	62.9	1.006	-0.14	0.953	1.232
	LTE Band 41	20M	QPSK	100	0	Left Side	0mm	Ant 9	DSI 6	40620	2593	1	20.33	21.50	1.309	62.9	1.006	-0.05	0.945	1.244
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	39750	2506	2	20.42	21.50	1.282	62.9	1.006	0.14	1.500	1.935
	LTE Band 41	20M	QPSK	1	0	Left Side	0mm	Ant 9	DSI 4	39750	2506	3	20.42	21.50	1.282	62.9	1.006	-0.05	1.710	2.205
	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	42590	3500	1	19.81	21.00	1.315	62.9	1.006	0.00	1.640	2.170
	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	42190	3460	1	19.80	21.00	1.318	62.9	1.006	0.02	1.400	1.856
83	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	42990	3540	1	19.53	21.00	1.403	62.9	1.006	-0.01	1.780	2.512
	LTE Band 42	20M	QPSK	50	0	Top Side	0mm	Ant 4	DSI 6	42590	3500	1	18.67	20.00	1.358	62.9	1.006	-0.13	1.040	1.421
	LTE Band 42	20M	QPSK	100	0	Top Side	0mm	Ant 4	DSI 6	42590	3500	1	18.63	20.00	1.371	62.9	1.006	-0.03	1.040	1.434
	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	42990	3540	2	19.53	21.00	1.403	62.9	1.006	0.02	1.710	2.414
	LTE Band 42	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	42990	3540	3	19.53	21.00	1.403	62.9	1.006	-0.12	1.720	2.428
	LTE Band 42C	20M	QPSK	1	0	Top Side	0mm	Ant 4	DSI 6	42990+42792	3540+3520.2	1	19.65	21.00	1.365	62.9	1.006	0.06	1.660	2.279
	LTE Band 42	20M	QPSK	1	0	Front	0mm	Ant 7	DSI 6	42590	3500	1	22.35	23.50	1.303	62.9	1.006	-0.03	1.290	1.691
	LTE Band 42	20M	QPSK	50	0	Front	0mm	Ant 7	DSI 6	42590	3500	1	22.07	23.00	1.239	62.9	1.006	0.06	0.824	1.027
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	42590	3500	1	22.35	23.50	1.303	62.9	1.006	0.17	1.800	2.359
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	42190	3460	1	22.26	23.50	1.33	62.9	1.006	-0.12	1.870	2.502
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	42990	3540	1	22.28	23.50	1.324	62.9	1.006	0.12	1.610	2.144
	LTE Band 42	20M	QPSK	50	0	Back	0mm	Ant 7	DSI 6	42590	3500	1	22.07	23.00	1.239	62.9	1.006	0.01	1.140	1.421
	LTE Band 42	20M	QPSK	100	0	Back	0mm	Ant 7	DSI 6	42590	3500	1	21.97	23.00	1.268	62.9	1.006	-0.02	1.130	1.441
	LTE Band 42	20M	QPSK	1	0	Left Side	0mm	Ant 7	DSI 6	42590	3500	1	22.35	23.50	1.303	62.9	1.006	0.02	1.370	1.796
	LTE Band 42	20M	QPSK	50	0	Left Side	0mm	Ant 7	DSI 6	42590	3500	1	22.07	23.00	1.239	62.9	1.006	0.15	0.877	1.093
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	42190	3460	2	22.26	23.50	1.33	62.9	1.006	0.03	1.780	2.382
	LTE Band 42	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	42190	3460	3	22.26	23.50	1.33	62.9	1.006	-0.02	1.730	2.315
	LTE Band 42C	20M	QPSK	1	0	Back	0mm	Ant 7	DSI 6	42190+42388	3460+3440.2	1	22.18	23.50	1.355	62.9	1.006	0.06	1.730	2.358
	LTE Band 42	20M	QPSK	1	0	Front	6mm	Ant 7	DSI 4	42590	3500	1	23.01	24.00	1.256	62.9	1.006	-0.03	0.561	0.709
	LTE Band 42	20M	QPSK	1	0	Back	10mm	Ant 7	DSI 4	42590	3500	1	23.01	24.00	1.256	62.9	1.006	-0.12	0.376	0.475
	LTE Band 42	20M	QPSK	1	0	Left Side	8mm	Ant 7	DSI 4	42590	3500	1	23.01	24.00	1.256	62.9	1.006	0.02	0.446	0.564

【FR1 SAR】

Plot No	Band	BW	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	FR1 n2	20M	BPSK	1	1	Front	0mm	Ant 1	DSI 6	376000	1880	1	20.77	21.30	1.13			0.14	1.370	1.548
	FR1 n2	20M	BPSK	50	28	Front	0mm	Ant 1	DSI 6	376000	1880	1	20.71	21.30	1.146			-0.07	1.360	1.559
	FR1 n2	20M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	376000	1880	1	20.77	21.30	1.13			-0.03	2.090	2.362
	FR1 n2	20M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	372000	1860	1	20.76	21.30	1.132			0.03	2.100	2.377
	FR1 n2	20M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	380000	1900	1	20.61	21.30	1.172			0.04	1.980	2.321
	FR1 n2	20M	BPSK	50	28	Back	0mm	Ant 1	DSI 6	376000	1880	1	20.71	21.30	1.146			0.13	2.130	2.441
84	FR1 n2	20M	BPSK	50	28	Back	0mm	Ant 1	DSI 6	372000	1860	1	20.64	21.30	1.164			-0.05	2.120	2.468
	FR1 n2	20M	BPSK	50	28	Back	0mm	Ant 1	DSI 6	380000	1900	1	20.53	21.30	1.194			0.01	1.910	2.281
	FR1 n2	20M	BPSK	100	0	Back	0mm	Ant 1	DSI 6	376000	1880	1	20.65	21.30	1.161			-0.07	1.790	2.078
	FR1 n2	20M	BPSK	1	1	Top Side	0mm	Ant 1	DSI 6	376000	1880	1	20.77	21.30	1.13			0.13	1.520	1.718
	FR1 n2	20M	BPSK	50	28	Top Side	0mm	Ant 1	DSI 6	376000	1880	1	20.71	21.30	1.146			-0.06	1.560	1.788
	FR1 n2	20M	BPSK	50	28	Back	0mm	Ant 1	DSI 6	372000	1860	2	20.64	21.30	1.164			0.03	1.580	1.839
	FR1 n2	20M	BPSK	50	28	Back	0mm	Ant 1	DSI 6	372000	1860	3	20.64	21.30	1.164			0.05	1.990	2.316
	FR1 n2	20M	BPSK	50	28	Front	6mm	Ant 1	DSI 4	376000	1880	1	22.98	24.00	1.265			0.14	0.655	0.829
	FR1 n2	20M	BPSK	50	28	Top Side	9mm	Ant 1	DSI 4	376000	1880	1	22.98	24.00	1.265			0.13	0.619	0.783
	FR1 n2	20M	BPSK	50	28	Back	10mm	Ant 1	DSI 4	372000	1860	1	22.87	24.00	1.297			-0.06	0.520	0.674
	FR1 n7	50M	BPSK	1	1	Front	0mm	Ant 1	DSI 6	507000	2535	1	21.78	22.70	1.236			0.02	1.880	2.324
	FR1 n7	50M	BPSK	135	68	Front	0mm	Ant 1	DSI 6	507000	2535	1	21.74	22.70	1.247			0.17	1.890	2.357
	FR1 n7	50M	BPSK	270	0	Front	0mm	Ant 1	DSI 6	507000	2535	1	21.64	22.70	1.276			0.16	1.770	2.259
	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	507000	2535	1	21.78	22.70	1.236			-0.01	1.990	2.460
	FR1 n7	50M	BPSK	135	68	Back	0mm	Ant 1	DSI 6	507000	2535	1	21.74	22.70	1.247			0.17	1.870	2.332
	FR1 n7	50M	BPSK	270	0	Back	0mm	Ant 1	DSI 6	507000	2535	1	21.64	22.70	1.276			-0.10	1.640	2.093
	FR1 n7	50M	BPSK	1	1	Top Side	0mm	Ant 1	DSI 6	507000	2535	1	21.78	22.70	1.236			-0.04	1.920	2.373
	FR1 n7	50M	BPSK	135	68	Top Side	0mm	Ant 1	DSI 6	507000	2535	1	21.74	22.70	1.247			-0.14	1.760	2.195
	FR1 n7	50M	BPSK	270	0	Top Side	0mm	Ant 1	DSI 6	507000	2535	1	21.64	22.70	1.276			0.16	1.560	1.991
	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	507000	2535	2	21.78	22.70	1.236			0.01	1.960	2.423



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	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	507000	2535	3	21.78	22.70	1.236			-0.05	1.920	2.373
	FR1 n7	50M	BPSK	135	68	Front	6mm	Ant 1	DSI 4	507000	2535	1	23.25	24.00	1.189			0.17	0.610	0.725
	FR1 n7	50M	BPSK	1	1	Back	10mm	Ant 1	DSI 4	507000	2535	1	23.31	24.00	1.172			-0.01	0.467	0.547
	FR1 n7	50M	BPSK	1	1	Top Side	9mm	Ant 1	DSI 4	507000	2535	1	23.31	24.00	1.172			-0.04	0.686	0.804
85	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 2	DSI 6	507000	2535	1	22.75	24.00	1.334			-0.03	2.360	3.148
	FR1 n7	50M	BPSK	135	68	Back	0mm	Ant 2	DSI 6	507000	2535	1	22.74	24.00	1.337			0.08	2.270	3.035
	FR1 n7	50M	BPSK	270	0	Back	0mm	Ant 2	DSI 6	507000	2535	1	22.61	24.00	1.377			-0.09	2.050	2.823
	FR1 n7	50M	BPSK	1	1	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	1	22.75	24.00	1.334			0.17	1.750	2.335
	FR1 n7	50M	BPSK	135	68	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	1	22.74	24.00	1.337			0.04	2.020	2.701
	FR1 n7	50M	BPSK	270	0	Bottom Side	0mm	Ant 2	DSI 6	507000	2535	1	22.61	24.00	1.377			0.04	1.710	2.355
	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 2	DSI 6	507000	2535	2	22.75	24.00	1.334			-0.12	1.660	2.214
	FR1 n7	50M	BPSK	1	1	Back	0mm	Ant 2	DSI 6	507000	2535	3	22.75	24.00	1.334			-0.03	2.160	2.881
	FR1 n7	50M	BPSK	1	1	Back	5mm	Ant 2	DSI 4	507000	2535	1	23.26	24.00	1.186			-0.03	0.492	0.584
	FR1 n7	50M	BPSK	135	68	Bottom Side	10mm	Ant 2	DSI 4	507000	2535	1	23.12	24.00	1.225			0.04	0.506	0.620
	FR1 n66	40M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	349000	1745	1	21.58	22.30	1.18			0.09	1.970	2.325
86	FR1 n66	40M	BPSK	108	54	Back	0mm	Ant 1	DSI 6	349000	1745	1	21.57	22.30	1.183			-0.09	2.100	2.484
	FR1 n66	40M	BPSK	216	0	Back	0mm	Ant 1	DSI 6	349000	1745	1	21.55	22.30	1.189			0.04	2.000	2.378
	FR1 n66	40M	BPSK	1	1	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	21.58	22.30	1.18			0.14	1.260	1.487
	FR1 n66	40M	BPSK	108	54	Top Side	0mm	Ant 1	DSI 6	349000	1745	1	21.57	22.30	1.183			-0.12	1.390	1.644
	FR1 n66	40M	BPSK	108	54	Back	0mm	Ant 1	DSI 6	349000	1745	2	21.57	22.30	1.183			0.03	2.030	2.401
	FR1 n66	40M	BPSK	108	54	Back	0mm	Ant 1	DSI 6	349000	1745	3	21.57	22.30	1.183			0.02	2.060	2.437
	FR1 n66	40M	BPSK	108	54	Back	10mm	Ant 1	DSI 4	349000	1745	1	22.84	24.00	1.306			-0.09	0.359	0.469
	FR1 n66	40M	BPSK	108	54	Top Side	9mm	Ant 1	DSI 4	349000	1745	1	22.84	24.00	1.306			-0.12	0.370	0.483
	FR1 n41	100M	BPSK	1	1	Back	0mm	Ant 0	DSI 6	518598	2592.99	1	20.52	21.50	1.253			-0.17	2.020	2.531
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 0	DSI 6	518598	2592.99	1	20.54	21.50	1.247			0.02	2.200	2.743
	FR1 n41	100M	BPSK	270	0	Back	0mm	Ant 0	DSI 6	518598	2592.99	1	19.98	21.00	1.265			0.19	1.930	2.441
	FR1 n41	100M	BPSK	1	1	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	1	20.52	21.50	1.253			0.16	1.310	1.641
	FR1 n41	100M	BPSK	135	69	Bottom Side	0mm	Ant 0	DSI 6	518598	2592.99	1	20.54	21.50	1.247			0.14	1.290	1.609
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 0	DSI 6	518598	2592.99	2	20.54	21.50	1.247			0.08	2.150	2.681
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 0	DSI 6	518598	2592.99	3	20.54	21.50	1.247			-0.11	2.130	2.656
	FR1 n41	100M	BPSK	1	1	Front	0mm	Ant 1	DSI 6	518598	2592.99	1	20.59	21.30	1.178			-0.07	1.500	1.767
	FR1 n41	100M	BPSK	135	69	Front	0mm	Ant 1	DSI 6	518598	2592.99	1	20.57	21.30	1.183			-0.05	1.530	1.810
	FR1 n41	100M	BPSK	1	1	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	20.59	21.30	1.178			-0.12	1.530	1.802
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 1	DSI 6	518598	2592.99	1	20.57	21.30	1.183			0.13	1.460	1.727
	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	1	20.59	21.30	1.178			0.01	2.070	2.438
	FR1 n41	100M	BPSK	135	69	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	1	20.57	21.30	1.183			-0.03	1.730	2.047
	FR1 n41	100M	BPSK	270	0	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	1	20.41	21.30	1.227			-0.05	1.580	1.939
	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	2	20.59	21.30	1.178			-0.06	2.040	2.403
	FR1 n41	100M	BPSK	1	1	Top Side	0mm	Ant 1	DSI 6	518598	2592.99	3	20.59	21.30	1.178			0.02	1.910	2.250
	FR1 n41	100M	BPSK	135	69	Front	6mm	Ant 1	DSI 4	518598	2592.99	1	21.41	22.50	1.285			-0.07	0.383	0.492
	FR1 n41	100M	BPSK	1	1	Back	10mm	Ant 1	DSI 4	518598	2592.99	1	21.45	22.50	1.274			-0.12	0.317	0.404
	FR1 n41	100M	BPSK	1	1	Top Side	9mm	Ant 1	DSI 4	518598	2592.99	1	21.45	22.50	1.274			0.01	0.448	0.571
	FR1 n41	100M	BPSK	1	271	Back	0mm	Ant 2	DSI 6	518598	2592.99	1	23.04	24.00	1.247			0.02	1.860	2.319
	FR1 n41	100M	BPSK	135	69	Back	0mm	Ant 2	DSI 6	518598	2592.99	1	22.68	24.00	1.355			0.02	1.670	2.263
	FR1 n41	100M	BPSK	270	0	Back	0mm	Ant 2	DSI 6	518598	2592.99	1	22.21	23.50	1.346			-0.15	1.520	2.046
	FR1 n41	100M	BPSK	1	271	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	1	23.04	24.00	1.247			-0.15	2.100	2.619
87	FR1 n41	100M	BPSK	135	69	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	1	22.68	24.00	1.355			-0.04	2.540	3.442
	FR1 n41	100M	BPSK	270	0	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	1	22.21	23.50	1.346			0.12	2.040	2.746
	FR1 n41	100M	BPSK	135	69	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	2	22.68	24.00	1.355			0.06	2.470	3.347
	FR1 n41	100M	BPSK	135	69	Bottom Side	0mm	Ant 2	DSI 6	518598	2592.99	3	22.68	24.00	1.355			0.08	2.530	3.428
	FR1 n41	100M	BPSK	1	1	Left Side	0mm	Ant 9	DSI 6	518598	2592.99		20.05	21.20	1.303			0.02	1.760	2.293
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 9	DSI 6	518598	2592.99		20.01	21.20	1.315			-0.05	1.890	2.485
	FR1 n41	100M	BPSK	270	0	Left Side	0mm	Ant 9	DSI 6	518598	2592.99		19.96	21.20	1.33			0.01	1.720	2.288
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 9	DSI 4	518598	2592.99	2	20.01	21.20	1.315			0.01	1.700	2.236
	FR1 n41	100M	BPSK	135	69	Left Side	0mm	Ant 9	DSI 4	518598	2592.99	3	20.01	21.20	1.315			0.07	1.720	2.262
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 4	DSI 6	656000	3840	1	17.78	18.70	1.236			-0.13	0.473	0.585
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 4	DSI 6	656000	3840	1	17.64	18.70	1.276			0.07	0.452	0.577
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 6	656000	3840	1	17.78	18.70	1.236			-0.04	2.000	2.472
	FR1 n77	100M	BPSK	135	69	Top Side	0mm	Ant 4	DSI 6	656000	3840	1	17.64	18.70	1.276			0.08	1.850	2.361
	FR1 n77	100M	BPSK	270	0	Top Side	0mm	Ant 4	DSI 6	656000	3840	1	17.55	18.70	1.303			0.10	1.890	2.463
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 6	656000	3840	2	17.78	18.70	1.236			0.09	1.620	2.002
	FR1 n77	100M	BPSK	1	1	Top Side	0mm	Ant 4	DSI 6	656000	3840	3	17.78	18.70	1.236			0.08	1.610	1.990
	FR1 n77	100M	BPSK	1	1	Back	8mm	Ant 4	DSI 4	656000	3840	1	21.86	22.50	1.159			-0.13	0.304	0.352
	FR1 n77	100M	BPSK	1	1	Top Side	9mm	Ant 4	DSI 4	656000	3840	1	21.86	22.50	1.159			-0.04	0.440	0.510
	FR1 n77	100M	BPSK	1	1	Front	0mm	Ant 5	DSI 6	656000	3840	1	22.15	23	1.216			0.03	0.969	1.178
	FR1 n77	100M	BPSK	135	69	Front	0mm	Ant 5	DSI 6	656000	3840	1	22.08	23	1.236			0.06	0.903	1.116
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 5	DSI 6	656000	3840	1	22.15	23	1.216			0.01	0.444	0.54
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 5	DSI 6	656000	3840	1	22.08	23	1.236			0.05	0.432	0.534
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSI 6	656000	3840	1	22.15	23	1.216			-0.06	1.420	1.727
	FR1 n77	100M	BPSK	135	69	Right Side	0mm	Ant 5	DSI 6	656000	3840	1	22.08	23	1.236			0.01	1.320	1.632
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 5	DSI 6	656000	3840	2	22.15	23	1.216			0.06	1.390	1.69
	FR1 n77	100M	BPSK	1	1	Right Side	0													



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	FR1 n77	100M	BPSK	135	69	Front	0mm	Ant 7	DSI 6	656000	3840	1	21.41	22.50	1.285			0.08	1.020	1.311
88	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 7	DSI 6	656000	3840	1	21.52	22.50	1.253			-0.06	1.980	2.481
	FR1 n77	100M	BPSK	135	69	Back	0mm	Ant 7	DSI 6	656000	3840	1	21.41	22.50	1.285			0.06	1.710	2.197
	FR1 n77	100M	BPSK	270	0	Back	0mm	Ant 7	DSI 6	656000	3840	1	21.29	22.50	1.321			0.13	1.680	2.219
	FR1 n77	100M	BPSK	1	1	Left Side	0mm	Ant 7	DSI 6	656000	3840	1	21.52	22.50	1.253			0.02	1.690	2.118
	FR1 n77	100M	BPSK	135	69	Left Side	0mm	Ant 7	DSI 6	656000	3840	1	21.41	22.50	1.285			-0.18	1.670	2.146
	FR1 n77	100M	BPSK	270	0	Left Side	0mm	Ant 7	DSI 6	656000	3840	1	21.29	22.50	1.321			-0.09	1.400	1.849
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 7	DSI 6	656000	3840	2	21.52	22.50	1.253			0.02	1.770	2.218
	FR1 n77	100M	BPSK	1	1	Back	0mm	Ant 7	DSI 6	656000	3840	3	21.52	22.50	1.253			0.06	1.790	2.243
	FR1 n77	100M	BPSK	135	69	Front	6mm	Ant 7	DSI 4	656000	3840	1	22.95	24.00	1.274			-0.03	0.348	0.443
	FR1 n77	100M	BPSK	1	1	Back	10mm	Ant 7	DSI 4	656000	3840	1	23.10	24.00	1.23			-0.06	0.259	0.319
	FR1 n77	100M	BPSK	135	69	Left Side	8mm	Ant 7	DSI 4	656000	3840	1	22.95	24.00	1.274			-0.18	0.510	0.650
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI 6	656000	3840	1	22.79	24	1.321			0.06	0.905	1.196
	FR1 n77	100M	BPSK	135	69	Right Side	0mm	Ant 8	DSI 6	656000	3840	1	22.55	24	1.396			0.01	0.821	1.146
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI 6	656000	3840	2	22.79	24	1.321			0.02	0.869	1.148
	FR1 n77	100M	BPSK	1	1	Right Side	0mm	Ant 8	DSI 6	656000	3840	3	22.79	24	1.321			-0.07	0.856	1.131

[WLAN 2.4GHz_5GHz SAR]

Plot No	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Headset	sample#	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
89	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3	Extremity-Standalone	1	2412	-	1	18.53	20.00	1.403	97.45	1.026	-0.12	0.290	0.417
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3	Extremity-Standalone	1	2412	-	2	18.53	20.00	1.403	97.45	1.026	-0.01	0.281	0.404
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 3	Extremity-Standalone	1	2412	-	3	18.53	20.00	1.403	97.45	1.026	0.08	0.270	0.389
	WLAN2.4GHz	802.11b 1Mbps	Back	8mm	Ant 3	Full power	1	2412	-	1	18.53	20.00	1.403	97.45	1.026	0.03	0.178	0.256
90	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	Extremity-Standalone	46	5230	-	1	18.50	20.00	1.413	100.0	1.0	-0.08	0.740	1.046
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	Extremity-Simultaneous	46	5230	-	1	17.40	19.00	1.445	100.0	1.0	0.01	0.598	0.864
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	9mm	Ant 4	Full power	46	5230	-	1	18.50	20.00	1.413	100.0	1.0	0.01	0.138	0.195
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	Extremity-Standalone	46	5230	-		18.50	20.00	1.413	100.0	1.0	-0.04	0.714	1.009
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4	Extremity-Standalone	46	5230	-		18.50	20.00	1.413	100.0	1.0	0.07	0.722	1.020
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Extremity-Standalone	46	5230	-	1	18.96	20.00	1.271	100.0	1.0	0.03	0.260	0.330
	WLAN5GHz	802.11n-HT40 MCS0	Back	8mm	Ant 6	Full power	46	5230	-	1	18.96	20.00	1.271	100.0	1.0	0.06	0.077	0.098
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Extremity-Standalone	46	5230	-		18.96	20.00	1.271	100.0	1.0	0.11	0.258	0.328
	WLAN5GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Extremity-Standalone	46	5230	-		18.96	20.00	1.271	100.0	1.0	-0.01	0.254	0.323
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	Extremity-Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.16	0.365	0.546
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4	Extremity-Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	0.03	0.127	0.190
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4	Extremity-Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	0.07	0.109	0.163
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4	Extremity-Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	0.04	0.095	0.142
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	Extremity-Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.02	0.595	0.890
	WLAN5GHz	802.11a 6Mbps	Bottom Side	0mm	Ant 4	Extremity-Standalone	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.12	0.010	0.015
	WLAN5GHz	802.11a 6Mbps	Front	7mm	Ant 4	Full power	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	0.06	0.091	0.136
	WLAN5GHz	802.11a 6Mbps	Back	8mm	Ant 4	Full power	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.04	0.109	0.163
	WLAN5GHz	802.11a 6Mbps	Right Side	8mm	Ant 4	Full power	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	0.02	0.029	0.043
	WLAN5GHz	802.11a 6Mbps	Top Side	9mm	Ant 4	Full power	52	5260	-	1	18.28	20.00	1.486	99.32	1.007	-0.03	0.176	0.263
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	Extremity-Standalone	52	5260	-	2	18.28	20.00	1.486	99.32	1.007	0.13	0.565	0.845
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	Extremity-Standalone	52	5260	-	3	18.28	20.00	1.486	99.32	1.007	-0.09	0.554	0.829
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Extremity-Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.07	0.474	0.645
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Extremity-Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	0.09	0.239	0.325
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 6	Extremity-Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.06	0.001	0.001
91	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Extremity-Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.07	0.735	1.001
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Extremity-Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	0.10	0.064	0.087
	WLAN5GHz	802.11a 6Mbps	Bottom Side	0mm	Ant 6	Extremity-Standalone	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	0.14	0.032	0.044
	WLAN5GHz	802.11a 6Mbps	Front	7mm	Ant 6	Full power	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	0.01	0.093	0.127
	WLAN5GHz	802.11a 6Mbps	Back	8mm	Ant 6	Full power	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.07	0.107	0.146
	WLAN5GHz	802.11a 6Mbps	Right Side	8mm	Ant 6	Full power	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	0.09	0.153	0.208
	WLAN5GHz	802.11a 6Mbps	Top Side	9mm	Ant 6	Full power	52	5260	-	1	18.69	20.00	1.352	99.32	1.007	-0.04	0.053	0.072
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Extremity-Standalone	52	5260	-	2	18.69	20.00	1.352	99.32	1.007	0.03	0.715	0.973
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Extremity-Standalone	52	5260	-	3	18.69	20.00	1.352	99.32	1.007	0.01	0.585	0.796
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 4	Extremity-Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.15	0.747	1.046
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4	Extremity-Simultaneous	138	5690	-	1	17.25	18.50	1.334	100.0	1.0	0.02	0.529	0.706
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 4	Extremity-Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.19	0.232	0.325
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4	Extremity-Simultaneous	138	5690	-	1	17.25	18.50	1.334	100.0	1.0	0.01	0.164	0.219
	WLAN5GHz	802.11a 6Mbps	Left Side	0mm	Ant 4	Extremity-Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.03	0.097	0.136
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4	Extremity-Simultaneous	138	5690	-	1	17.25	18.50	1.334	100.0	1.0	0.08	0.069	0.092
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 4	Extremity-Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.07	0.105	0.147
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4	Extremity-Simultaneous	138	5690	-	1	17.25	18.50	1.334	100.0	1.0	0.09	0.074	0.099
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	Extremity-Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.02	0.964	1.349
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4	Extremity-Simultaneous	138	5690	-	1	17.25	18.50	1.334	100.0	1.0	0.02	0.683	0.911
	WLAN5GHz	802.11a 6Mbps	Bottom Side	0mm	Ant 4	Extremity-Standalone	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.07	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Ant 4	Extremity-Simultaneous	138	5690	-	1	17.25	18.50	1.334	100.0	1.0	-0.08	0.001	0.001
	WLAN5GHz	802.11a 6Mbps	Front	7mm	Ant 4	Full power	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.03	0.086	0.120
	WLAN5GHz	802.11a 6Mbps	Back	8mm	Ant 4	Full power	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	-0.06	0.098	0.137



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	WLAN5GHz	802.11a 6Mbps	Right Side	8mm	Ant 4	Full power	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.03	0.144	0.202
	WLAN5GHz	802.11a 6Mbps	Top Side	9mm	Ant 4	Full power	144	5720	-	1	18.57	20.00	1.39	99.32	1.007	0.01	0.051	0.071
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	Extremity-Standalone	144	5720	-	2	18.57	20.00	1.39	99.32	1.007	0.03	0.801	1.121
	WLAN5GHz	802.11a 6Mbps	Top Side	0mm	Ant 4	Extremity-Standalone	144	5720	-	3	18.57	20.00	1.39	99.32	1.007	0.01	0.584	0.817
	WLAN5GHz	802.11n-HT20 MCS0	Front	0mm	Ant 6	Extremity-Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	0.17	0.767	1.068
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 6	Extremity-Simultaneous	138	5690	-	1	17.75	19.00	1.334	100.0	1.0	0.03	0.484	0.646
	WLAN5GHz	802.11n-HT20 MCS0	Back	0mm	Ant 6	Extremity-Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.14	0.287	0.400
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Extremity-Simultaneous	138	5690	-	1	17.75	19.00	1.334	100.0	1.0	0.02	0.181	0.241
	WLAN5GHz	802.11n-HT20 MCS0	Left Side	0mm	Ant 6	Extremity-Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	0.05	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 6	Extremity-Simultaneous	138	5690	-	1	17.75	19.00	1.334	100.0	1.0	-0.03	0.001	0.001
92	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 6	Extremity-Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.06	1.030	1.435
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 6	Extremity-Simultaneous	138	5690	-	1	17.75	19.00	1.334	100.0	1.0	0.01	0.683	0.911
	WLAN5GHz	802.11n-HT20 MCS0	Top Side	0mm	Ant 6	Extremity-Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.02	0.098	0.137
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 6	Extremity-Simultaneous	138	5690	-	1	17.75	19.00	1.334	100.0	1.0	0.01	0.062	0.083
	WLAN5GHz	802.11n-HT20 MCS0	Bottom Side	0mm	Ant 6	Extremity-Standalone	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	0.14	0.058	0.081
	WLAN5GHz	802.11ac-VHT80 MCS0	Bottom Side	0mm	Ant 6	Extremity-Simultaneous	138	5690	-	1	17.75	19.00	1.334	100.0	1.0	0.08	0.039	0.052
	WLAN5GHz	802.11n-HT20 MCS0	Front	7mm	Ant 6	Full power	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	0.03	0.103	0.143
	WLAN5GHz	802.11n-HT20 MCS0	Back	8mm	Ant 6	Full power	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.06	0.111	0.155
	WLAN5GHz	802.11n-HT20 MCS0	Right Side	8mm	Ant 6	Full power	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	-0.05	0.163	0.227
	WLAN5GHz	802.11n-HT20 MCS0	Top Side	9mm	Ant 6	Full power	144	5720	-	1	19.56	21.00	1.393	100.0	1.0	0.06	0.095	0.132
	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 6	Extremity-Standalone	144	5720	-	2	19.56	21.00	1.393	100.0	1.0	0.03	0.757	1.055
	WLAN5GHz	802.11n-HT20 MCS0	Right Side	0mm	Ant 6	Extremity-Standalone	144	5720	-	3	19.56	21.00	1.393	100.0	1.0	-0.01	0.832	1.159
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	0mm	Ant 4	Extremity-Standalone	151	5755	-	1	17.92	19.50	1.439	100.0	1.0	0.03	0.731	1.052
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4	Extremity-Simultaneous	155	5775	-	1	16.55	18.00	1.396	100.0	1.0	0.12	0.571	0.797
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	0mm	Ant 4	Extremity-Standalone	151	5755	-	2	17.92	19.50	1.439	100.0	1.0	-0.07	0.712	1.025
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	0mm	Ant 4	Extremity-Standalone	151	5755	-	3	17.92	19.50	1.439	100.0	1.0	0.04	0.724	1.042
	WLAN5GHz	802.11ac-VHT40 MCS0	Top Side	9mm	Ant 4	Full power	151	5755	-	1	17.92	19.50	1.439	100.0	1.0	0.02	0.102	0.147
93	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Extremity-Standalone	149	5745	-	1	19.46	21.00	1.426	100.0	1.0	0.01	0.754	1.075
	WLAN5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Extremity-Standalone	149	5745	-	1	19.46	21.00	1.426	100.0	1.0	0.01	0.271	0.386
	WLAN5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Extremity-Standalone	149	5745	-	1	19.46	21.00	1.426	100.0	1.0	-0.13	0.108	0.154
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Extremity-Standalone	149	5745	-	2	19.46	21.00	1.426	100.0	1.0	-0.05	0.741	1.057
	WLAN5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Extremity-Standalone	149	5745	-	3	19.46	21.00	1.426	100.0	1.0	0.08	0.750	1.069
	WLAN5GHz	802.11a 6Mbps	Front	7mm	Ant 6	Full power	149	5745	-	1	19.46	21.00	1.426	99.32	1.007	0.03	0.109	0.157
	WLAN5GHz	802.11a 6Mbps	Back	8mm	Ant 6	Full power	149	5745	-	1	19.46	21.00	1.426	99.32	1.007	-0.04	0.121	0.174
	WLAN5GHz	802.11a 6Mbps	Right Side	8mm	Ant 6	Full power	149	5745	-	1	19.46	21.00	1.426	99.32	1.007	0.01	0.168	0.241

【WLAN 6GHz SAR】

Plot No.	Band	BW (MHz)	Mode	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Measured APD (W/m ²)
	WLAN6GHz	802.11AX-HE80 MCS0	Front	0mm	Ant 4	Standalone	215	7025	1	14.06	15.50	1.393	100	1.000	0.08	0.114	0.159	2.63
	WLAN6GHz	802.11AX-HE80 MCS0	Back	0mm	Ant 4	Standalone	215	7025	1	14.06	15.50	1.393	100	1.000	0.01	0.033	0.046	0.761
	WLAN6GHz	802.11AX-HE80 MCS0	Left Side	0mm	Ant 4	Standalone	215	7025	1	14.06	15.50	1.393	100	1.000	0.03	0.014	0.020	0.323
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 4	Standalone	215	7025	1	14.06	15.50	1.393	100	1.000	-0.08	0.014	0.020	0.323
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	215	7025	1	14.06	15.50	1.393	100	1.000	-0.08	0.206	0.287	4.75
	WLAN6GHz	802.11AX-HE80 MCS0	Bottom Side	0mm	Ant 4	Standalone	215	7025	1	14.06	15.50	1.393	100	1.000	0.1	0.001	0.001	0.023
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	7	5985	1	9.41	11.00	1.442	100	1.000	-0.08	0.136	0.196	3.14
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	87	6385	1	13.03	14.50	1.403	100	1.000	-0.12	0.226	0.317	5.21
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	87	6385	2	13.03	14.50	1.403	100	1.000	-0.05	0.217	0.304	5
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	87	6385	3	13.03	14.50	1.403	100	1.000	0.07	0.224	0.314	5.16
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	103	6465	1	12.36	13.50	1.300	100	1.000	0.1	0.208	0.270	4.8
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 4	Standalone	135	6625	1	10.79	12.00	1.321	100	1.000	0.12	0.181	0.239	4.17
	WLAN6GHz	802.11AX-HE80 MCS0	Front	7mm	Ant 4	Full power	7	5985	1	17.48	19.00	1.419	100	1.000	0.02	0.020	0.028	0.461
	WLAN6GHz	802.11AX-HE80 MCS0	Back	8mm	Ant 4	Full power	7	5985	1	17.48	19.00	1.419	100	1.000	-0.04	0.045	0.064	1.04
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	8mm	Ant 4	Full power	7	5985	1	17.48	19.00	1.419	100	1.000	0.15	0.008	0.011	0.184
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	9mm	Ant 4	Full power	7	5985	1	17.48	19.00	1.419	100	1.000	-0.07	0.056	0.079	1.29
	WLAN6GHz	802.11AX-HE80 MCS0	Front	0mm	Ant 6	Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.08	0.112	0.156	2.61
	WLAN6GHz	802.11AX-HE80 MCS0	Back	0mm	Ant 6	Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	-0.17	0.042	0.059	0.977
	WLAN6GHz	802.11AX-HE80 MCS0	Left Side	0mm	Ant 6	Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	-0.03	0.001	0.001	0.023
94	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	-0.12	0.327	0.456	7.61
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	215	7025	2	19.05	20.50	1.396	100	1.000	-0.07	0.301	0.420	7
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	215	7025	3	19.05	20.50	1.396	100	1.000	0.07	0.269	0.376	6.26
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	0mm	Ant 6	Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.14	0.029	0.040	0.675
	WLAN6GHz	802.11AX-HE80 MCS0	Bottom Side	0mm	Ant 6	Standalone	215	7025	1	19.05	20.50	1.396	100	1.000	0.11	0.001	0.001	0.023



	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	7	5985	1	13.42	15.00	1.439	100	1.000	-0.05	0.171	0.246	3.98
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	87	6385	1	11.55	13.00	1.396	100	1.000	0.18	0.125	0.175	2.91
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	119	6545	1	14.33	15.50	1.309	100	1.000	0.14	0.092	0.120	2.14
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	0mm	Ant 6	Standalone	135	6625	1	17.29	18.50	1.321	100	1.000	-0.17	0.117	0.155	2.72
	WLAN6GHz	802.11AX-HE80 MCS0	Front	7mm	Ant 6	Full power	215	7025	1	19.05	20.50	1.396	100	1.000	0.02	0.026	0.036	0.605
	WLAN6GHz	802.11AX-HE80 MCS0	Back	8mm	Ant 6	Full power	215	7025	1	19.05	20.50	1.396	100	1.000	0.13	0.036	0.050	0.838
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	8mm	Ant 6	Full power	215	7025	1	19.05	20.50	1.396	100	1.000	0.09	0.052	0.073	1.21
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	9mm	Ant 6	Full power	215	7025	1	19.05	20.50	1.396	100	1.000	0.05	0.025	0.035	0.582

16.5 6GHz PD Test Result

<WLAN PD>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Grid Step (A)	iPDn	iPD ratio (≥ -1)	Normal psPD (W/m ²)	Total psPD (W/m ²)
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	7	5985	17.12	0.0625	2.3	1.21	1.830	2.270
	WLAN6GHz	802.11AX-HE80 MCS0	Front	10mm	Ant 6	Head Standalone	7	5985	17.12	0.15	1.74		0.997	1.110
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	215	7025	19.05	0.0625	1.86	0.19	0.745	1.330
	WLAN6GHz	802.11AX-HE80 MCS0	Front	8.59mm	Ant 6	Head Standalone	215	7025	19.05	0.15	1.78		0.627	0.925

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	Grid Step (A)	Scaling Factor for measurement uncertainty	Power Drift (dB)	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 4	Head Standalone	135	6625	15.96	17.50	1.426	100	1.000	0.0625	1.5535	0.03	1.400	3.10	3.190	7.06
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 4	Head Standalone	7	5985	13.91	15.50	1.442	100	1.000	0.0625	1.5535	0.08	2.220	4.97	2.830	6.34
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 4	Head Standalone	87	6385	15.52	17.00	1.406	100	1.000	0.0625	1.5535	-0.01	1.760	3.84	3.220	7.03
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 4	Head Standalone	103	6465	15.87	17.50	1.455	100	1.000	0.0625	1.5535	0.03	1.300	2.94	2.310	5.22
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 4	Head Standalone	215	7025	16.85	18.50	1.462	100	1.000	0.0625	1.5535	0.02	1.310	2.98	2.150	4.88
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	135	6625	17.29	18.50	1.321	100	1.000	0.0625	1.5535	0.03	0.654	1.34	0.874	1.79
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	7	5985	17.12	18.50	1.374	100	1.000	0.0625	1.5535	0.01	1.830	3.91	2.270	4.85
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	87	6385	16.85	18.50	1.462	100	1.000	0.0625	1.5535	0.03	2.370	5.38	3.000	6.81
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	103	6465	16.62	18.00	1.374	100	1.000	0.0625	1.5535	-0.01	1.180	2.52	1.410	3.01
	WLAN6GHz	802.11AX-HE80 MCS0	Front	2mm	Ant 6	Head Standalone	215	7025	19.05	20.50	1.396	100	1.000	0.0625	1.5535	-0.03	0.745	1.62	1.330	2.89
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	135	6625	15.96	17.50	1.426	100	1.000	0.0625	1.5535	0.03	1.050	2.33	1.190	2.64
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	7	5985	17.48	19.00	1.419	100	1.000	0.0625	1.5535	0.09	1.510	3.33	1.770	3.90
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	87	6385	16.04	17.50	1.400	100	1.000	0.0625	1.5535	0.01	0.992	2.16	1.090	2.37
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	103	6465	15.87	17.50	1.455	100	1.000	0.0625	1.5535	0.05	0.909	2.06	1.100	2.49
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 4	Body-worn Standalone	215	7025	16.85	18.50	1.462	100	1.000	0.0625	1.5535	0.01	0.728	1.65	0.795	1.81
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	135	6625	17.29	18.50	1.321	100	1.000	0.0625	1.5535	-0.01	0.447	0.92	0.520	1.07
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	7	5985	17.12	18.50	1.374	100	1.000	0.0625	1.5535	0.03	1.380	2.95	1.610	3.44
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	87	6385	16.85	18.50	1.462	100	1.000	0.0625	1.5535	0.09	1.120	2.54	1.200	2.73
	WLAN6GHz	802.11AX-HE80 MCS0	Back	5mm	Ant 6	Body-worn Standalone	103	6465	16.62	18.00	1.374	100	1.000	0.0625	1.5535	0.02	0.507	1.08	0.571	1.22
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	2mm	Ant 4	Standalone	135	6625	10.79	12.00	1.321	100	1.000	0.0625	1.5535	-0.02	3.050	6.26	3.650	7.49
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	2mm	Ant 4	Standalone	7	5985	9.41	11.00	1.442	100	1.000	0.0625	1.5535	0.03	2.030	4.55	3.000	6.72
01	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	2mm	Ant 4	Standalone	87	6385	13.03	14.50	1.403	100	1.000	0.0625	1.5535	-0.07	2.740	5.97	3.510	7.65
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	2mm	Ant 4	Standalone	103	6465	12.36	13.50	1.300	100	1.000	0.0625	1.5535	0.01	2.310	4.67	3.110	6.28
	WLAN6GHz	802.11AX-HE80 MCS0	Top Side	2mm	Ant 4	Standalone	215	7025	14.06	15.50	1.393	100	1.000	0.0625	1.5535	-0.04	1.320	2.86	2.340	5.06
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	2mm	Ant 6	Standalone	135	6625	17.29	18.50	1.321	100	1.000	0.0625	1.5535	0.05	1.540	3.16	2.360	4.84
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	2mm	Ant 6	Standalone	7	5985	13.42	15.00	1.439	100	1.000	0.0625	1.5535	-0.06	2.340	5.23	3.250	7.26
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	2mm	Ant 6	Standalone	87	6385	11.55	13.00	1.396	100	1.000	0.0625	1.5535	0.08	1.610	3.49	3.130	6.79
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	2mm	Ant 6	Standalone	103	6465	14.10	15.50	1.380	100	1.000	0.0625	1.5535	0.06	2.080	4.46	2.670	5.73
	WLAN6GHz	802.11AX-HE80 MCS0	Right Side	2mm	Ant 6	Standalone	215	7025	19.05	20.50	1.396	100	1.000	0.0625	1.5535	0.05	1.930	4.19	2.930	6.36

16.6 Repeated SAR Measurement

【Repeat SAR 1g - FCC】

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)	Ratio
1st	GSM850	GPRS 3 Tx slots	Back	5.0	Ant 0	DSI 3	251	848.8	28.77	29.50	1.183			-0.14	1.090	1.289	-
2nd	GSM850	GPRS 3 Tx slots	Back	5.0	Ant 0	DSI 3	251	848.8	28.77	29.50	1.183			0.05	1.050	1.242	1.04
1st	LTE Band 66	20M_QPSK_1_0	Back	5.0	Ant 2	DSI 3	132572	1770	22.29	23.00	1.178			-0.04	1.080	1.272	-
2nd	LTE Band 66	20M_QPSK_1_0	Back	5.0	Ant 2	DSI 3	132572	1770	22.29	23.00	1.178			0.06	1.010	1.190	1.07
1st	LTE Band 2	20M_QPSK_1_0	Bottom Side	5.0	Ant 2	DSI 7	19100	1900	21.98	22.70	1.18			0.08	1.080	1.274	-
2nd	LTE Band 2	20M_QPSK_1_0	Bottom Side	5.0	Ant 2	DSI 7	19100	1900	21.98	22.70	1.18			-0.12	0.980	1.156	1.10
1st	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0.0	Ant 3	Head_Standalone	11	2462	17.26	18.50	1.33	97.45	1.026	0.09	0.993	1.355	-
2nd	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	0.0	Ant 3	Head_Standalone	11	2462	17.26	18.50	1.33	97.45	1.026	0.03	0.975	1.330	1.02
1st	FR1 n41	100M_BPSK_135_69	Back	5.0	Ant 0	DSI 3	518598	2592.99	20.27	21.00	1.183			-0.07	1.090	1.289	-
2nd	FR1 n41	100M_BPSK_135_69	Back	5.0	Ant 0	DSI 3	518598	2592.99	20.27	21.00	1.183			-0.17	1.030	1.218	1.06
1st	FR1 n77	100M_BPSK_270_0	Right Side	5.0	Ant 8	DSI 7	656000	3840	21.99	23.40	1.384			0.07	0.826	1.143	-
2nd	FR1 n77	100M_BPSK_270_0	Right Side	5.0	Ant 8	DSI 7	656000	3840	21.99	23.40	1.384			0.05	0.811	1.122	1.02
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0.0	Ant 6	Head_Standalone	138	5690	17.35	18.50	1.303			0.06	0.912	1.188	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0.0	Ant 6	Head_Standalone	138	5690	17.35	18.50	1.303			0.02	0.892	1.162	1.02
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0.0	Ant 6	Head_Standalone	155	5775	16.20	17.50	1.349			0.01	0.876	1.182	-
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Left Cheek	0.0	Ant 6	Head_Standalone	155	5775	16.20	17.50	1.349			-0.07	0.844	1.139	1.04

【Repeat SAR 10g - FCC】

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-Up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	Ratio
1st	LTE Band 13	10M_QPSK_1_0	Back	0.0	Ant 1	DSI 6	23230	782	23.15	24.00	1.216			0.02	2.060	2.505	-
2nd	LTE Band 13	10M_QPSK_1_0	Back	0.0	Ant 1	DSI 6	23230	782	23.15	24.00	1.216			0.05	1.970	2.396	1.05
1st	WCDMA IV	RMC 12.2Kbps	Back	0.0	Ant 2	DSI 6	1513	1752.6	22.84	24.00	1.306			-0.06	2.310	3.017	-
2nd	WCDMA IV	RMC 12.2Kbps	Back	0.0	Ant 2	DSI 6	1513	1752.6	22.84	24.00	1.306			-0.07	2.280	2.978	1.01
1st	LTE Band 2	20M_QPSK_1_0	Back	0.0	Ant 0	DSI 6	18700	1860	20.42	21.50	1.282			0.02	2.510	3.218	-
2nd	LTE Band 2	20M_QPSK_1_0	Back	0.0	Ant 0	DSI 6	18700	1860	20.42	21.50	1.282			0.13	2.430	3.115	1.03
1st	LTE Band 7	20M_QPSK_1_0	Back	0.0	Ant 2	DSI 6	21350	2560	23.31	24.00	1.172			-0.05	2.610	3.059	-
2nd	LTE Band 7	20M_QPSK_1_0	Back	0.0	Ant 2	DSI 6	21350	2560	23.31	24.00	1.172			0.11	2.470	2.895	1.06
1st	FR1 n77	100M_BPSK_1_1	Top Side	0.0	Ant 4	DSI 6	656000	3840	17.78	18.70	1.236			-0.04	2.000	2.472	-
2nd	FR1 n77	100M_BPSK_1_1	Top Side	0.0	Ant 4	DSI 6	656000	3840	17.78	18.70	1.236			-0.01	1.890	2.336	1.06

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
- 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.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.