

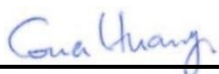
FCC SAR TEST REPORT

FCC ID : E2KT99W373PC15
Equipment : 5G WWAN Module
Brand Name : Foxconn
Model Name : T99W373
Applicant : Dell Inc.
One Dell Way Round Rock, TX 78682, USA
Manufacturer : Dell Inc.
One Dell Way Round Rock, TX 78682, USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was installed into Portable Computer (Brand Name: DELL, Model Name: P179G) during test.

The product was received on Nov. 27, 2023 and testing was started from Nov. 28, 2023 and completed on Jan. 09, 2024. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FA3N0842	01	Initial issue of report	Jan. 17, 2024
FA3N0842	02	Update section3.1, 5, 16.2	Jan. 22, 2024

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for Dell Inc., 5G WWAN Module, T99W373, are as follows.

Equipment Class	Frequency Band		Highest SAR Summary	Highest Simultaneous Transmission 1g SAR (W/kg)	
			Body		
			1g SAR (W/kg)		
Licensed	WCDMA	WCDMA II	1.08	1.59	
		WCDMA IV	1.11		
		WCDMA V	0.85		
	LTE	LTE Band 7	1.12		
		LTE Band 12 / 17	0.56		
		LTE Band 13	0.85		
		LTE Band 14	1.04		
		LTE Band 25 / 2	1.17		
		LTE Band 26 / 5	0.67		
		LTE Band 30	1.07		
		LTE Band 41 / 38	1.20		
		LTE Band 42	1.15		
		LTE Band 43	1.09		
		LTE Band 48	1.13		
		LTE Band 66 / 4	1.16		
		LTE Band 71	0.43		
		FR1	FR1 n7		1.16
			FR1 n12		0.44
	FR1 n13		0.75		
	FR1 n14		1.01		
	FR1 n2 / n25		1.20		
	FR1 n5 / n26		0.51		
	FR1 n30		1.19		
	FR1 n41 / n38		1.10		
	FR1 n48		1.16		
	FR1 n66 / n4		1.17		
	FR1 n70		1.03		
	FR1 n71	0.40			
	FR1 n77	0.92			
Date of Testing:			2023/11/28 ~ 2024/01/09		

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. 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) specified in FCC 47 CFR part 2 (2.1093), and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang

Report Producer: Carlie Tsai

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02



3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification	
Equipment Name	5G WWAN Module
Brand Name	Foxconn
Model Name	T99W373
FCC ID	E2KT99W373PC15
Wireless Technology and Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13: 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz 5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM
Remark: 1. This device has two antenna vendors; RF exposure evaluation selects SPEED as the main test, WNC will spot check worst case found in SPEED. 2. When EN-DC is active, operate with a combination of WWAN antenna 0 and a combination of antenna 1/2/3, and analyze Sim-Tx as outlined in section 16. 3. The device implements P and G sensor detection, the G-sensor is control when the device from laptop change to tablet mode that device will limit different output power for SAR compliance. The P-sensor will detect device is close or away human body and limit output power for SAR compliance. 4. This device support UL MIMO mode for NR n41, n77 and n78. In addition to PC1.5, PC2 and PC3 implemented to specification. Since the output power from each antenna will be reduced for 3 dB when UL MIMO activated and hence SAR were performed with the UL SISO mode for worse case. 5. The FCC ID: PD9BE200D2, Intel BE200D2W WLAN/BT module is integrated into this host, and the Sim-Tx compliance include in section16. 6. The FCC ID: E2K-DWRFID2305 NFC module is integrated into this host, and NFC transmitters are consider to be operating simultaneously when there is overlapping transmission with the exception of transmission during network hand-offs with maximum hand-off duration less than 30 seconds.	

Host Information	
Equipment Name	Portable Computer
Brand Name	DELL
Model Name	P179G
Integrated WiFi/BT Module	Brand Name: Intel Model Name: BE200D2W
Integrated NFC Module	Brand Name: DELL Model Name: DWRFID2305
EUT Stage	Identical Prototype

WWAN Antenna Information (Laptop)				
Main Antenna 0	Manufacturer	Wistron Corporation	Peak gain(dBi)	-0.19
	Part number	0P56WN	Type	PIFA
MIMO 3 Antenna 1	Manufacturer	Wistron Corporation	Peak gain(dBi)	2.98
	Part number	0PX7NW	Type	PIFA
MIMO 2 Antenna 2	Manufacturer	Wistron Corporation	Peak gain(dBi)	1.26
	Part number	0PX7NW	Type	PIFA
Aux Antenna 3	Manufacturer	Wistron Corporation	Peak gain(dBi)	0.02
	Part number	0P56WN	Type	PIFA
WWAN Antenna Information (Tablet)				
Main Antenna 0	Manufacturer	Wistron Corporation	Peak gain(dBi)	-2.09
	Part number	0P56WN	Type	PIFA
MIMO 3 Antenna 1	Manufacturer	Wistron Corporation	Peak gain(dBi)	2.38
	Part number	0PX7NW	Type	PIFA
MIMO 2 Antenna 2	Manufacturer	Wistron Corporation	Peak gain(dBi)	1.60
	Part number	0PX7NW	Type	PIFA
Aux Antenna 3	Manufacturer	Wistron Corporation	Peak gain(dBi)	-0.58
	Part number	0P56WN	Type	PIFA

3.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05																																																																													
FCC ID	E2KT99W373PC15																																																																												
Equipment Name	5G WWAN Module																																																																												
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 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz, 3550 MHz ~ 3600 MHz LTE Band 43: 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz																																																																												
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 14: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 43: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz																																																																												
uplink modulations used	QPSK / 16QAM / 64QAM / 256QAM																																																																												
LTE Voice / Data requirements	Data only																																																																												
LTE MPR permanently built-in by design	<table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table>							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
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	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, Proximity and G-Sensor.																																																																												
LTE Carrier Aggregation Combinations	Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 12.																																																																												
LTE Carrier Aggregation Additional Information	This device supports maximum of 5 carriers in the downlink and 2 carriers in the uplink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA.																																																																												

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				
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5				
H	20643	848.3	20635	847.5	20625	846.5	20600	844				
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510				
M	21100	2535	21100	2535	21100	2535	21100	2535				
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560				
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	23017	699.7	23025	700.5	23035	701.5	23060	704				
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5				
H	23173	715.3	23165	714.5	23155	713.5	23130	711				
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)					
L	23205		779.5		23230		782					
M	23230		782									
H	23255		784.5									
LTE Band 14												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Channel #		Channel #		Freq.(MHz)					
L	23305		790.5		23330		793					
M	23330		793									
H	23355		795.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)					
L	23755		706.5		23780		709					
M	23790		710		23790		710					
H	23825		713.5		23800		711					

LTE Band 25												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	26065	1852.5	26090	1855	26115	1857.5	26140	1860
M	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880	26340	1880
H	26683	1914.3	26675	1913.5	26665	1912.5	26640	1910	26615	1907.5	26590	1905
LTE Band 26												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	26697	814.7	26705	815.5	26715	816.5	26740	819	26765	821.5		
M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 30												
	Bandwidth 5 MHz					Bandwidth 10 MHz						
	Channel #		Freq.(MHz)			Channel #				Freq.(MHz)		
L	27685		2307.5			27710				2310		
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
M	40620	2593	40620	2593	40620	2593	40620	2593				
H	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
LTE Band 42 (3450 MHz ~ 3550 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	42115	3452.5	42140	3455	42165	3457.5	42190	3460				
M	42590	3500	42590	3500	42590	3500	42590	3500				
H	43065	3547.5	43040	3545	43015	3542.5	42990	3540				
LTE Band 42 (3550 MHz ~ 3600 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	43315	3552.5	43140	3555	43165	3557.5	43190	3560				
M	43340	3575	43340	3575	43340	3575	43340	3575				
H	43565	3597.5	43540	3595	43515	3592.5	43490	3590				
LTE Band 43												
	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	43615	3602.5	43640	3605	43665	3607.5	43690	3610				
M	44090	3650	44090	3650	44090	3650	44090	3650				
H	44565	3697.5	44540	3695	44515	3692.5	44490	3690				

LTE Band 48												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	55265	3552.5	55290	3555	55315	3557.5	55340	3560				
LMH	55810	3607	55815	3607.5	55820	3608	55830	3609				
	56170	3643	56165	3642.5	56160	3642	56150	3641				
	56715	3697.5	56690	3695	56665	3692.5	56640	3690				
LTE Band 66												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	131997	1712.5	132022	1715	132047	1717.5	132072	1720
M	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
H	132665	1779.3	132657	1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770
LTE Band 71												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	133147	665.5	133172	668	133197	670.5	133222	673				
M	133297	680.5	133297	680.5	133297	680.5	133297	680.5				
H	133447	695.5	133422	693	133397	690.5	133372	688				

3.3 General 5G NR SAR Test and Reporting Considerations

5G NR Information								
FCC ID	E2KT99W373PC15							
Equipment Name	5G WWAN Module							
Operating Frequency Range of each 5G NR transmission band	5G NR n2 : 1850 MHz ~ 1910 MHz							
	5G NR n5 : 824 MHz ~ 849 MHz							
	5G NR n7 : 2500 MHz ~ 2570 MHz							
	5G NR n12 : 699 MHz ~ 716 MHz							
	5G NR n13: 777 MHz ~ 787 MHz							
	5G NR n14 : 788 MHz ~ 798 MHz							
	5G NR n25 : 1850 MHz ~ 1915 MHz							
	5G NR n26 : 814 MHz ~ 849 MHz							
	5G NR n30 : 2305 MHz ~ 2315 MHz							
	5G NR n38 : 2570 MHz ~ 2620 MHz							
	5G NR n41 : 2496 MHz ~ 2690 MHz							
	5G NR n48 : 3550 MHz ~ 3700 MHz							
	5G NR n66 : 1710 MHz ~ 1780 MHz							
	5G NR n70 : 1695 MHz ~ 1710 MHz							
Channel Bandwidth	5G NR n71 : 663 MHz ~ 698 MHz							
	5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz							
	5G NR n78: 3700 MHz ~ 3800 MHz, 3450 MHz ~ 3550 MHz							
	5G NR n2: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n5: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n7: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz							
	5G NR n12: 5MHz, 10MHz, 15MHz							
	5G NR n13: 5MHz, 10MHz							
	5G NR n14: 5MHz, 10MHz							
	5G NR n25: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz							
	5G NR n26: 5MHz, 10MHz, 15MHz, 20MHz							
	5G NR n30: 5MHz, 10MHz							
	5G NR n38: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz							
	5G NR n41: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz							
5G NR n48: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz								
5G NR n66: 5MHz, 10MHz, 15MHz, 20MHz, 25 MHz, 30MHz, 40MHz								
5G NR n70: 5MHz, 10MHz, 15MHz								
5G NR n71: 5MHz, 10MHz, 15MHz, 20MHz								
5G NR n77: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz								
5G NR n78: 10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz								
SCS	FDD: SCS15KHz, TDD: SCS30KHz							
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM CP-OFDM QPSK / 16QAM / 64QAM / 256QAM							
A-MPR (Additional MPR) disabled for SAR Testing?	Yes							
LTE Anchor Bands for n2	LTE B5/12/14/30/66/71							
LTE Anchor Bands for n5	LTE B2/5/7/12/30/48/66							
LTE Anchor Bands for n7	LTE B5/12/13/66/71							
LTE Anchor Bands for n12	LTE B2/30/66							
LTE Anchor Bands for n25	LTE B2/7/12/26/48/66/71							
LTE Anchor Bands for n38	LTE B2/4/5/12/66/71							
LTE Anchor Bands for n41	LTE B2/5/7/12/25/26/66/71							
LTE Anchor Bands for n66	LTE B2/5/12/13/14/30/48/66/71							
LTE Anchor Bands for n71	LTE B2/7/66							
LTE Anchor Bands for n77	LTE B7/41							
LTE Anchor Bands for n78	LTE B7/38/41							
NR Band 2								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
M	376000	1880	376000	1880	376000	1880	376000	1880
H	381500	1907.5	381000	1905	380500	1902.5	380000	1900
NR Band 5								
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800	829	166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
H	169300	846.5	168800	844	168300	841.5	167800	839



NR Band 7																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520								
M	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535								
H	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550								
NR Band 12																						
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz													
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)											
L	140300		701.5		140800		704		141300		706.5											
M	141500		707.5		141500		707.5		141500		707.5											
H	142700		713.5		142200		711		141700		708.5											
NR Band 13																						
	Bandwidth 5MHz						Bandwidth 10MHz															
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)												
L	155900			779.5			156400			782												
M	156400			782																		
H	156900			784.5																		
NR Band 14																						
	Bandwidth 5MHz						Bandwidth 10MHz															
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)												
L	158100			790.5			158600			793												
M	158600			793																		
H	159100			795.5																		
NR Band 25																						
	Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz		Bandwidth 40MHz									
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)								
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860	372500	1862.5	373000	1865	374000	1870								
M	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5	376500	1882.5								
H	382500	1912.5	382000	1910	381500	1907.5	381000	1905	380500	1902.5	380000	1900	379000	1895								
NR Band 26																						
	Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz				Bandwidth 20MHz									
	Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)							
L	163300		816.5		163800		819		164300		821.5		164800		824							
M	166300		831.5		166300		831.5		166300		831.5		166300		831.5							
H	169300		846.5		168800		844		168300		841.5		167800		839							
NR Band 30																						
	Bandwidth 5MHz						Bandwidth 10MHz															
	Ch. #			Freq. (MHz)			Ch. #			Freq. (MHz)												
L	461500			2307.5			462000			2310												
M	462000			2310																		
H	462500			2312.5																		
NR Band 38																						
	Bandwidth 5MHz		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)	Ch. #	Freq. (MHz)								
L	514500	2572.5	515004	2575.02	515502	2577.51	516000	2580	516504	2582.52	517002	2585.01	518004	2590.02								
M	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595	519000	2595								
H	523500	2617.5	522996	2614.98	522498	2612.49	522000	2610	521496	2607.48	520998	2604.99	519996	2599.98								
NR Band 41																						
	Bandwidth10MHz		Bandwidth15MHz		Bandwidth20MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	500202	2501.01	500700	2503.5	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
M	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
H	537000	2685	536496	2682.48	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640



NR Band 48																								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 30MHz		Bandwidth 40MHz														
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)													
L	636834	3552.51	637000	3555	637168	3557.52	637334	3560.01	637668	3565.02	638000	3570												
M	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99	641666	3624.99												
H	646500	3697.5	646332	3694.98	646166	3692.49	646000	3690	645666	3684.99	645332	3679.98												
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	342000	1710	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	356000	1780	353000	1765	352500	1762.5	352000	1760								
NR Band 70																								
Bandwidth 5MHz				Bandwidth 10MHz				Bandwidth 15MHz																
Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)		Ch. #		Freq. (MHz)										
L	339500		1697.5		340000		1700		340500		1702.5		1702.5											
M	340500		1702.5		340500		1702.5																	
H	341500		1707.5		341000		1705																	
NR Band 71																								
Bandwidth 5MHz		Bandwidth 10MHz		Bandwidth 15MHz		Bandwidth 20MHz		Bandwidth 25MHz		Bandwidth 30MHz														
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)													
L	133100	665.5	133600	668	134100	670.5	134600	673	135100	675.5	135600	678												
M	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5	136100	680.5												
H	139100	695.5	138600	693	138100	690.5	137600	688	137100	685.5	136600	683												
NR Band 77																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840	656000	3840
H	665000	3975	664832	3972.48	664666	3969.99	664500	3967.50	664332	3964.98	664000	3960	663666	3954.99	663332	3949.98	663000	3945	662666	3939.99	662332	3934.98	662000	3930
NR Band 78																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	647000	3705	647168	3707.52	647334	3710.01	647500	3712.5	647668	3715.02	648000	3720	648334	3725.01	648668	3730.02	649000	3735	649334	3740.01	649668	3745.02	650000	3750
M	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750	650000	3750		
H	653000	3795	652832	3792.48	652666	3789.99	652500	3787.50	652332	3784.98	652000	3780	651666	3774.99	651332	3769.98	651000	3765	650666	3759.99	650332	3754.98		
NR Band 77/78(3450MHz ~ 3550MHz)																								
Bandwidth10MHz		Bandwidth15MHz		Bandwidth 20MHz		Bandwidth25MHz		Bandwidth30MHz		Bandwidth 40MHz		Bandwidth 50MHz		Bandwidth 60MHz		Bandwidth 70MHz		Bandwidth 80MHz		Bandwidth 90MHz		Bandwidth100MHz		
Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	630334	3455.01	630500	3457.5	630668	3460.02	630834	3462.51	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495	633334	3500.01
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
H	636332	3544.98	636166	3542.49	636000	3540	635832	3537.48	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99	633332	3499.98



4. Lid Angle Verify Results

General Note:

- The following guidance should be applied to laptops/tablets that use Hall Effect or gravity sensors to detect lid angle for the purpose of power reduction:

Step 1: With the lid is in closed mode (0 degrees), open the screen in 10 degree steps until laptop mode is obtained
Step 2: Lower the screen 5 degrees. Closed mode should be reobtained. If not keep lowering in 5 degree steps
Step 3: Open the screen in 1 degree steps until laptop mode is reobtained
Step 4: Continue opening the screen in 1 degree steps until at least 5 degrees past where laptop mode was obtained
Step 5: Then continue opening the screen in 10 degree steps until tablet mode is obtained
Step 6: Power measurements should be taken at each step
Step 7: Reverse this procedure going from tablet mode back down to closed mode

			when the screen angle is from 0 degree to 360 degree																																			
Screen angle (degree) v.s. power			Main Antenna 0																																			
	Band		WCDMA II	WCDMA IV	WCDMA V	LTE Band 7	LTE Band 12/17	LTE Band 13	LTE Band 14	LTE Band 20/21	LTE Band 25/26	LTE Band 30	LTE Band 36/40	LTE Band 41	LTE Band 43/48	LTE Band 43/48 HPUE	LTE Band 42 Part 96	LTE Band 42 Part 27Q	LTE Band 43 Part 96	LTE Band 43 Part 96	LTE Band 46 Part 96	FR1 n7	FR1 n12	FR1 n13	FR1 n14	FR1 n25/26	FR1 n26/27	FR1 n30	FR1 n66	FR1 n70	FR1 n71	FR1 n41/38	FR1 n41 HPUE	FR1 n48 Part 96	FR1 n77/78 Part 27Q	FR1 n77/78 Part 27Q HPUE	FR1 n77/78 Part 27Q HPUE	
	Lid Close	0	23.80	24.21	23.78	22.98	23.22	23.32	23.37	23.18	23.40	21.90	23.50	23.40	23.13	25.89	21.72	23.85	21.63	21.68	23.47	23.54	23.55	23.42	23.65	23.72	22.29	23.56	23.15	23.65	23.82	26.63	21.72	23.41	25.93	23.25	26.11	
Notebook	1	23.77	24.13	23.66	22.81	23.12	23.12	23.37	23.13	23.20	21.70	23.38	23.28	23.13	25.89	21.65	23.67	21.53	21.59	23.47	23.47	23.45	23.31	23.49	23.53	22.11	23.47	23.03	23.58	23.69	26.51	21.61	23.21	25.92	23.18	26.03		
	2	23.77	24.10	23.66	22.88	23.22	23.26	23.27	23.07	23.27	21.73	23.43	23.38	23.10	25.74	21.70	23.84	21.51	21.60	23.37	23.42	23.44	23.33	23.46	23.57	22.10	23.40	22.95	23.59	23.79	26.61	21.58	23.41	25.80	23.23	26.01		
	3	23.71	24.18	23.67	22.97	23.18	23.25	23.30	23.00	23.29	21.89	23.31	23.30	23.09	25.87	21.59	23.71	21.51	21.53	23.27	23.50	23.37	23.42	23.50	23.65	22.15	23.56	23.09	23.53	23.78	26.60	21.54	23.33	25.89	23.05	25.93		
	4	23.68	24.15	23.60	22.90	23.04	23.16	23.31	23.06	23.27	21.81	23.42	23.35	22.95	25.82	21.69	23.83	21.49	21.64	23.35	23.46	23.35	23.38	23.48	23.53	22.19	23.39	23.02	23.61	23.81	26.62	21.59	23.23	25.91	23.14	26.01		
	5	23.63	24.07	23.72	22.79	23.20	23.14	23.24	23.12	23.34	21.79	23.41	23.25	23.00	25.84	21.65	23.81	21.47	21.50	23.44	23.48	23.35	23.32	23.52	23.54	22.25	23.49	23.09	23.52	23.70	26.44	21.53	23.36	25.77	23.11	26.00		
	10	23.61	24.04	23.70	22.84	23.10	23.23	23.28	23.07	23.24	21.79	23.46	23.37	22.97	25.89	21.72	23.73	21.58	21.51	23.45	23.54	23.53	23.38	23.55	23.70	22.25	23.46	22.96	23.52	23.70	26.54	21.65	23.24	25.93	23.18	26.01		
	20	23.70	24.20	23.62	22.98	23.20	23.26	23.17	23.15	23.40	21.81	23.37	23.40	22.95	25.89	21.66	23.66	21.53	21.58	23.41	23.36	23.35	23.33	23.52	23.66	22.24	23.36	23.03	23.63	23.63	26.47	21.67	23.27	25.84	23.05	26.07		
	30	23.79	24.16	23.66	22.97	23.18	23.23	23.26	23.05	23.25	21.85	23.49	23.26	22.97	25.77	21.59	23.76	21.50	21.65	23.37	23.34	23.38	23.35	23.61	23.71	22.26	23.52	23.05	23.56	23.71	26.47	21.68	23.36	25.83	23.08	26.09		
	40	23.63	24.18	23.73	22.90	23.11	23.24	23.30	23.03	23.27	21.79	23.49	23.24	22.93	25.75	21.62	23.81	21.61	21.52	23.30	23.51	23.44	23.26	23.61	23.62	22.11	23.36	23.09	23.59	23.68	26.51	21.54	23.39	25.73	23.17	25.91		
	50	23.68	24.17	23.76	22.84	23.12	23.13	23.33	23.12	23.35	21.84	23.31	23.36	23.10	25.76	21.66	23.81	21.48	21.61	23.31	23.50	23.45	23.25	23.45	23.57	22.17	23.50	23.11	23.49	23.67	26.52	21.61	23.34	25.89	23.23	26.04		
	60	23.64	24.06	23.67	22.95	23.16	23.32	23.21	23.11	23.31	21.90	23.41	23.28	23.08	25.73	21.65	23.70	21.43	21.54	23.31	23.54	23.47	23.28	23.45	23.54	22.24	23.41	23.13	23.51	23.62	26.50	21.70	23.35	25.85	23.22	25.92		
	70	23.66	24.20	23.58	22.90	23.03	23.29	23.20	22.99	23.31	21.70	23.47	23.36	23.13	25.88	21.52	23.73	21.63	21.58	23.42	23.34	23.36	23.26	23.65	23.71	22.24	23.55	23.07	23.55	23.73	26.63	21.67	23.26	25.85	23.11	26.01		
	80	23.68	24.02	23.67	22.82	23.17	23.32	23.36	22.99	23.21	21.82	23.49	23.34	23.12	25.83	21.65	23.71	21.59	21.49	23.45	23.53	23.41	23.32	23.54	23.61	22.18	23.43	23.00	23.58	23.63	26.57	21.59	23.40	25.83	23.21	25.99		
	90	23.65	24.05	23.73	22.98	23.09	23.27	23.33	23.06	23.40	21.78	23.38	23.36	23.08	25.77	21.65	23.75	21.51	21.50	23.38	23.39	23.39	23.31	23.56	23.58	22.24	23.38	23.00	23.48	23.66	26.46	21.58	23.29	25.74	23.07	26.11		
	100	23.80	24.09	23.63	22.97	23.14	23.14	23.26	23.15	23.22	21.83	23.33	23.21	22.97	25.69	21.61	23.79	21.61	21.66	23.34	23.49	23.44	23.30	23.58	23.60	22.25	23.49	22.99	23.45	23.67	26.47	21.71	23.30	25.79	23.15	25.98		
	110	23.66	24.21	23.74	22.87	23.22	23.32	23.21	23.05	23.33	21.77	23.47	23.25	23.09	25.72	21.59	23.83	21.60	21.49	23.41	23.48	23.54	23.33	23.49	23.57	22.28	23.42	23.13	23.50	23.70	26.63	21.54	23.24	25.84	23.09	25.97		
	120	23.80	24.19	23.78	22.84	23.16	23.12	23.35	22.99	23.37	21.80	23.31	23.23	23.06	25.89	21.67	23.70	21.50	21.60	23.34	23.42	23.47	23.33	23.46	23.52	22.19	23.50	23.05	23.49	23.78	26.44	21.59	23.35	25.91	23.20	25.91		
	130	23.64	24.07	23.64	22.84	23.02	23.19	23.20	22.98	23.37	21.81	23.37	23.35	22.96	25.81	21.69	23.77	21.43	21.54	23.44	23.48	23.47	23.22	23.54	23.56	22.14	23.49	23.05	23.47	23.65	26.43	21.71	23.24	25.84	23.14	25.99		
	140	23.63	24.18	23.78	22.92	23.19	23.17	23.21	23.12	23.24	21.84	23.44	23.27	23.10	25.82	21.70	23.75	21.45	21.61	23.41	23.52	23.37	23.33	23.53	23.54	22.27	23.53	23.02	23.64	23.81	26.56	21.62	23.25	25.75	23.13	26.04		
	150	23.76	24.16	23.76	22.98	23.21	23.24	23.19	23.03	23.32	21.85	23.49	23.25	22.94	25.79	21.54	23.74	21.63	21.56	23.41	23.54	23.49	23.27	23.47	23.70	22.16	23.51	23.00	23.64	23.65	26.44	21.69	23.21	25.75	23.15	25.98		
	160	23.63	24.04	23.63	22.82	23.11	23.18	23.25	22.99	23.21	21.84	23.30	23.38	23.03	25.73	21.60	23.68	21.62	21.59	23.42	23.38	23.38	23.30	23.51	23.70	22.16	23.47	23.02	23.55	23.67	26.51	21.57	23.35	25.90	23.10	26.01		
	170	23.77	24.04	23.59	22.98	23.21	23.28	23.31	23.14	23.34	21.83	23.37	23.35	23.05	25.70	21.60	23.82	21.51	21.60	23.36	23.42	23.52	23.36	23.46	23.71	22.13	23.53	22.98	23.47	23.77	26.46	21.60	23.31	25.86	23.25	25.93		
	180	23.69	24.02	23.58	22.89	23.14	23.20	23.28	23.01	23.36	21.74	23.35	23.31	22.98	25.82	21.55	23.77	21.62	21.63	23.32	23.45	23.44	23.22	23.46	23.71	22.17	23.50	23.04	23.50	23.68	26.51	21.70	23.40	25.82	23.09	25.94		
	185	23.72	24.13	23.63	22.78	23.02	23.32	23.27	23.18	23.38	21.87	23.48	23.21	23.01	25.73	21.52	23.81	21.45	21.50	23.42	23.54	23.50	23.31	23.51	23.58	22.20	23.50	23.04	23.51	23.80	26.57	21.52	23.27	25.90	23.09	26.02		
	186	23.79	24.17	23.65	22.88	23.09	23.19	23.29	23.14	23.33	21.75	23.35	23.26	23.04	25.75	21.70	23.66	21.58	21.64	23.47	23.45	23.41	23.41	23.62	23.66	22.27	23.48	22.99	23.53	23.75	26.60	21.72	23.25	25.76	23.22	25.97		
	187	23.78	24.13	23.74	22.80	23.15	23.21	23.19	23.12	23.29	21.85	23.38	23.39	23.08	25.70	21.56	23.84	21.50	21.56	23.27	23.36	23.45	23.31	23.52	23.65	22.15	23.42	23.12	23.61	23.70	26.43	21.65	23.37	25.87	23.20	26.01		
	188	23.66	24.11	23.65	22.82	23.20	23.22	23.30	23.14	23.24	21.87	23.33	23.30	23.03	25.89	21.59	23.77	21.51	21.54	23.38	23.50	23.48	23.33	23.51	23.69	22.23	23.56	23.14	23.64	23.73	26.50	21.55	23.39	25.93	23.07	25.96		
	189	23.63	24.07	23.75	22.85	23.22	23.16	23.29	23.07	23.37	21.80	23.33	23.21	22.95	25.74	21.56	23.81	21.61	21.50	23.38	23.37	23.36	23.22	23.55	23.59	22.19	23.49	23.09	23.56	23.63	26.58	21.64	23.36	25.81	23.10	26.11		
	190	23.63	24.08	23.72	22.79	23.10	23.24	23.35	23.06	23.33	21.75	23.45	23.25	23.08	25.74	21.64	23.80	21.44	21.64	23.45	23.50	23.40	23.37	23.64	23.63	22.16	23.40	23.14	23.51	23.67	26.49	21.57	23.40	25.76	23.24	26.02		
Tablet Mode	191	20.06	21.71	23.78	22.98	23.22	23.32	23.32	19.85																													



FCC SAR TEST REPORT

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240	19.88	21.55	23.58	22.87	23.21	23.20	23.21	19.66	20.89	21.07	20.91	23.21	23.12	25.80	21.67	23.82	21.53	21.50	22.58	23.44	22.64	23.23	19.63	22.39	22.14	23.55	22.97	23.62	23.73	26.46	21.72	17.31	20.25	17.31	20.36
	250	20.01	21.65	23.60	22.82	23.20	23.21	19.78	21.06	20.91	20.98	23.20	22.97	25.81	21.64	23.77	21.58	21.61	22.69	23.50	22.56	23.26	19.71	22.42	22.09	23.48	23.14	23.65	23.73	26.43	21.66	17.42	20.35	17.39	20.43
	260	19.92	21.58	23.72	22.83	23.10	23.22	19.81	21.08	21.04	20.99	23.22	22.98	25.80	21.63	23.70	21.48	21.68	22.63	23.36	22.48	23.29	19.77	22.43	22.13	23.56	23.14	23.61	23.72	26.51	21.69	17.34	20.36	17.33	20.47
	270	20.06	21.62	23.70	22.89	23.19	23.20	19.81	20.96	20.96	20.95	23.31	22.93	25.86	21.56	23.83	21.45	21.64	22.63	23.48	22.60	23.30	19.65	22.45	22.16	23.39	23.03	23.62	23.72	26.59	21.71	17.33	20.38	17.21	20.37
	280	20.01	21.69	23.70	22.85	23.14	23.23	19.65	20.89	21.03	21.04	23.20	22.96	25.74	21.56	23.78	21.57	21.58	22.72	23.51	22.63	23.37	19.69	22.25	22.17	23.49	23.02	23.58	23.75	26.50	21.57	17.37	20.34	17.32	20.28
	290	19.89	21.54	23.70	22.89	23.07	23.31	19.80	20.90	20.89	20.99	23.22	23.05	25.75	21.55	23.80	21.59	21.61	22.67	23.47	22.49	23.23	19.78	22.36	22.24	23.48	22.99	23.48	23.75	26.59	21.68	17.28	20.27	17.35	20.34
	300	20.01	21.68	23.65	22.83	23.04	23.18	19.74	21.05	20.97	20.98	23.25	23.05	25.69	21.68	23.75	21.44	21.59	22.63	23.49	22.61	23.25	19.78	22.28	22.13	23.55	23.00	23.52	23.82	26.61	21.60	17.40	20.37	17.37	20.35
	310	19.95	21.70	23.73	22.95	23.22	23.29	19.66	21.00	20.90	21.03	23.31	23.07	25.82	21.66	23.66	21.60	21.59	22.70	23.38	22.65	23.28	19.64	22.29	22.20	23.56	22.97	23.55	23.80	26.52	21.60	17.44	20.25	17.32	20.44
	320	19.95	21.64	23.67	22.87	23.06	23.27	19.71	20.95	20.89	20.93	23.30	23.02	25.81	21.56	23.73	21.51	21.57	22.58	23.45	22.59	23.25	19.65	22.43	22.12	23.42	23.05	23.48	23.81	26.43	21.62	17.37	20.29	17.30	20.39
	330	19.98	21.68	23.61	22.97	23.07	23.25	19.83	20.96	21.08	21.01	23.25	23.00	25.83	21.52	23.68	21.54	21.65	22.60	23.38	22.60	23.38	19.81	22.29	22.24	23.45	23.07	23.57	23.69	26.43	21.54	17.43	20.36	17.40	20.40
	340	19.86	21.69	23.65	22.95	23.22	23.22	19.82	20.92	21.02	20.98	23.38	22.97	25.73	21.68	23.82	21.59	21.65	22.70	23.39	22.59	23.41	19.72	22.42	22.29	23.56	23.14	23.47	23.68	26.48	21.59	17.36	20.25	17.33	20.35
	350	19.94	21.62	23.60	22.97	23.14	23.26	19.69	20.95	20.91	21.01	23.38	22.95	25.80	21.64	23.81	21.59	21.56	22.66	23.46	22.50	23.30	19.72	22.32	22.18	23.43	22.96	23.63	23.68	26.45	21.57	17.29	20.30	17.39	20.45
	360	19.97	21.58	23.58	22.79	23.16	23.29	19.70	20.91	20.96	20.94	23.31	22.99	25.83	21.58	23.73	21.53	21.49	22.68	23.36	22.55	23.37	19.61	22.32	22.14	23.39	23.05	23.59	23.79	26.56	21.56	17.30	20.32	17.24	20.44

when the screen angle is from 0 degree to 360 degree																											
Screen angle (degree) v.s. power	Wireless		Main Antenna 0																								
	Band		WCDMA II	WCDMA IV	WCDMA V	LTE Band 7	LTE Band 12/17	LTE Band 13	LTE Band 14	LTE Band 25/2	LTE Band 26/5	LTE Band 30	LTE Band 66/4	LTE Band 71	LTE Band 41/38	LTE Band 41/38 HPUe	LTE Band 42 Part 96	LTE Band 42 Part 27Q	LTE Band 43 Part 96	LTE Band 48 Part 96	FR1 n7	FR1 n12	FR1 n13	FR1 n14	FR1 n25/2	FR1 n26/5	FR1 n30
Tablet Mode	360	20.06	21.71	23.78	22.98	23.22	23.32	23.32	19.85	21.09	21.09	21.09	23.40	23.13	25.89	21.72	23.85	21.63	21.68	22.78	23.54	22.67	23.42	19.81	22.45	22.29	
	350	19.99	21.57	23.70	22.87	23.09	23.22	23.21	19.67	20.98	21.08	21.08	23.20	22.95	25.71	21.60	23.82	21.53	21.61	22.70	23.37	22.67	23.23	19.67	22.29	22.23	
	340	20.04	21.58	23.76	22.88	23.03	23.32	23.15	19.71	21.03	20.98	21.03	23.25	23.09	25.87	21.52	23.84	21.51	21.50	22.72	23.37	22.65	23.22	19.80	22.28	22.10	
	330	19.90	21.54	23.68	22.89	23.15	23.30	23.23	19.67	20.91	21.09	20.99	23.20	22.96	25.81	21.53	23.69	21.47	21.55	22.71	23.46	22.51	23.33	19.70	22.41	22.18	
	320	19.92	21.56	23.72	22.81	23.10	23.15	23.30	19.66	20.93	21.08	21.06	23.23	22.99	25.76	21.53	23.81	21.43	21.55	22.75	23.41	22.57	23.24	19.66	22.35	22.15	
	310	19.98	21.69	23.71	22.91	23.14	23.32	23.32	19.82	21.03	21.07	21.03	23.30	23.05	25.77	21.53	23.74	21.58	21.59	22.62	23.38	22.50	23.42	19.75	22.43	22.26	
	300	19.87	21.52	23.77	22.93	23.06	23.30	23.30	19.83	21.04	20.96	21.03	23.30	22.94	25.71	21.58	23.74	21.63	21.64	22.65	23.36	22.56	23.23	19.68	22.27	22.15	
	290	19.95	21.59	23.67	22.95	23.15	23.12	23.27	19.69	21.09	21.01	21.03	23.31	23.02	25.70	21.58	23.83	21.60	21.60	22.73	23.36	22.64	23.28	19.67	22.39	22.27	
	280	19.94	21.51	23.74	22.93	23.21	23.27	23.31	19.74	20.93	21.09	20.90	23.40	22.94	25.89	21.69	23.82	21.56	21.53	22.78	23.53	22.57	23.36	19.69	22.36	22.10	
	270	20.05	21.68	23.68	22.81	23.09	23.21	23.23	19.85	20.90	21.00	21.03	23.22	22.97	25.77	21.63	23.83	21.63	21.62	22.62	23.41	22.52	23.29	19.72	22.29	22.09	
	260	20.06	21.57	23.69	22.91	23.13	23.20	23.12	19.79	20.95	21.06	21.05	23.29	22.95	25.71	21.64	23.73	21.57	21.49	22.60	23.51	22.54	23.25	19.68	22.25	22.19	
	250	20.03	21.63	23.66	22.81	23.19	23.12	23.24	19.67	20.91	21.03	21.06	23.22	23.10	25.83	21.62	23.68	21.55	21.65	22.78	23.38	22.57	23.42	19.64	22.40	22.11	
	240	19.88	21.59	23.77	22.84	23.07	23.15	23.14	19.69	21.07	21.08	21.03	23.29	23.08	25.73	21.52	23.81	21.58	21.49	22.66	23.47	22.53	23.22	19.62	22.41	22.18	
	230	20.00	21.63	23.65	22.78	23.02	23.14	23.20	19.83	21.05	20.93	20.91	23.20	22.96	25.82	21.70	23.68	21.45	21.51	22.69	23.41	22.49	23.22	19.67	22.39	22.16	
	220	20.06	21.52	23.67	22.89	23.09	23.25	23.29	19.69	21.00	20.93	21.01	23.39	23.02	25.87	21.62	23.76	21.55	21.68	22.71	23.37	22.50	23.39	19.81	22.38	22.25	
	210	20.06	21.57	23.66	22.83	23.21	23.17	23.16	19.83	20.89	21.02	21.05	23.23	23.10	25.81	21.71	23.65	21.54	21.64	22.69	23.44	22.58	23.41	19.62	22.40	22.17	
	200	19.98	21.56	23.78	22.79	23.06	23.32	23.27	19.75	20.91	20.95	21.03	23.23	23.06	25.89	21.65	23.83	21.63	21.59	22.77	23.34	22.56	23.34	19.75	22.41	22.10	
	190	19.89	21.53	23.62	22.80	23.09	23.12	23.30	19.71	20.90	20.93	20.99	23.26	22.98	25.79	21.70	23.81	21.63	21.58	22.64	23.49	22.65	23.39	19.77	22.30	22.20	
	180	19.93	21.57	23.67	22.97	23.06	23.13	23.14	19.79	20.89	20.95	20.95	23.33	22.94	25.78	21.52	23.79	21.53	21.53	22.65	23.40	22.65	23.36	19.74	22.26	22.29	
	175	20.02	21.70	23.60	22.89	23.07	23.26	23.13	19.81	20.99	21.06	20.89	23.28	23.08	25.73	21.72	23.80	21.53	21.49	22.66	23.42	22.50	23.28	19.65	22.25	22.21	
174	20.00	21.61	23.66	22.90	23.12	23.14	23.28	19.83	20.96	20.91	20.96	23.29	23.00	25.77	21.61	23.73	21.48	21.63	22.75	23.47	22.52	23.33	19.67	22.44	22.13		
173	20.06	21.67	23.63	22.84	23.10	23.18	23.25	19.69	21.08	20.99	20.95	23.28	22.95	25.80	21.58	23.78	21.49	21.59	22.77	23.53	22.51	23.38	19.77	22.26	22.16		
172	19.90	21.63	23.77	22.96	23.21	23.13	23.30	19.81	20.91	21.01	20.89	23.33	23.05	25.69	21.55	23.74	21.49	21.61	22.74	23.46	22.53	23.35	19.78	22.32	22.10		
171	20.03	21.66	23.62	22.82	23.18	23.32	23.28	19.76	20.89	20.95	20.95	23.29	22.99	25.80	21.68	23.66	21.59	21.61	22.60	23.51	22.57	23.31	19.67	22.29	22.19		
170	20.00	21.52	23.61	22.88	23.20	23.30	23.24	19.79	21.03	20.94	21.09	23.36	23.02	25.76	21.64	23.65	21.59	21.66	22.58	23.42	22.59	23.22	19.71	22.43	22.25		
Notebook	169	23.76	24.20	23.63	22.86	23.15	23.20	23.27	23.10	23.35	21.72	23.41	23.38	23.09	25.73	21.63	23.77	21.43	21.58	23.32	23.35	23.45	23.29	23.63	23.61	22.27	
	168	23.71	24.20	23.68	22.98	23.07	23.21	23.29	23.06	23.27	21.73	23.50	23.21	23.06	25.72	21.65	23.68	21.49	21.55	23.27	23.54	23.39	23.33	23.50	23.54	22.15	
	167	23.67	24.05	23.67	22.97	23.07	23.28	23.19	23.14	23.25	21.72	23.31	23.24	23.06	25.88	21.69	23.80	21.54	21.51	23.47	23.36	23.53	23.30	23.64	23.66	22.20	
	166	23.74	24.13	23.70	22.95	23.04	23.21	23.34	23.02	23.23	21.77	23.47	23.34	22.99	25.88	21.54	23.71	21.49	21.68	23.31	23.44	23.54	23.23	23.52	23.55	22.25	
	165	23.79	24.03	23.76	22.82	23.02	23.15	23.27	23.18	23.35	21.74	23.38	23.33	23.13	25.78	21.66	23.73	21.55	21.68	23.31	23.53	23.40	23.40	23.62	23.72	22.29	
	160	23.61	24.11	23.65	22.82	23.12	23.29	23.20	22.98	23.26	21.78	23.37	23.26	23.05	25.85	21.54	23.77	21.54	21.49	23.42	23.51	23.36	23.42	23.63	23.70	22.27	
	155	23.78	24.06	23.67	22.97	23.11	23.29	23.21	23.17	23.31	21.81	23.37	23.39	22.98	25.85	21.63	23.82	21.58	21.48	23.33	23.42	23.35	23.37	23.52	23.65	22.27	
	150	23.72	24.03	23.73	22.80	23.04	23.29	23.36	23.01	23.28	21.74	23.45	23.23	22.94	25.84	21.55	23.77	21.57	21.61	23.32	23.36	23.41	23.30	23.62	23.72	22.21	
	140	23.78	24.03	23.73	22.89	23.06	23.30	23.23	23.16	23.26	21.90	23.44	23.37	23.00	25.83	21.66	23.84	21.49	21.52	23.38	23.41	23.43	23.29	23.46	23.59	22.19	
	130	23.78	24.12	23.64	22.94	23.17	23.26	23.23	23.17	23.34	21.79	23.43	23.29	23.13	25.71	21.63	23.81	21.59	21.68	23.32	23.53	23.55	23.22	23.60	23.63	22.28	
120	23.75	24.06	23.69	22.92	23.15	23.27	23.35	23.04	23.32	21.72	23.39	23.36	23.06	25.76	21.63	23.75	21.47	21.54	23.31	23.48	23.44	23.25	23.48	23.64	22.28		
110	23.74	24.10	23.73	22.86	23.09	23.17	23.36	23.05	23.28	21.84	23.44	23.30	23.13	25.88	21.53	23.65	21.63	21.60	23.39	23.48	23.47	23.27	23.47	23.57	22.11		
100	23.70	24.05	23.71	22.89	23.07	23.22	23.22	23.10	23.24	21.88	23.47	23.37	23.09	25.86	21.60	23.82	21.43	21.48	23.41	23.46	23.42	23.25	23.49	23.59	22.23		



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Lid Close	90	23.69	24.04	23.77	22.93	23.14	23.22	23.32	23.14	23.26	21.85	23.30	23.37	23.11	25.85	21.55	23.74	21.45	21.54	23.47	23.45	23.35	23.41	23.56	23.56	22.26
	80	23.73	24.19	23.75	22.82	23.07	23.28	23.26	23.09	23.39	21.84	23.39	23.35	23.00	25.74	21.66	23.77	21.57	21.57	23.31	23.50	23.37	23.38	23.47	23.61	22.11
	70	23.80	24.11	23.70	22.93	23.11	23.24	23.23	23.11	23.31	21.70	23.42	23.20	22.98	25.74	21.72	23.81	21.60	21.59	23.37	23.45	23.43	23.24	23.51	23.70	22.20
	60	23.76	24.06	23.61	22.86	23.06	23.27	23.23	23.17	23.30	21.85	23.44	23.22	23.11	25.80	21.56	23.71	21.59	21.64	23.39	23.46	23.51	23.24	23.46	23.63	22.14
	50	23.73	24.02	23.77	22.83	23.02	23.27	23.34	23.03	23.35	21.82	23.37	23.34	23.04	25.72	21.66	23.71	21.56	21.52	23.30	23.46	23.40	23.27	23.45	23.69	22.29
	40	23.70	24.06	23.73	22.81	23.13	23.29	23.36	23.14	23.39	21.72	23.48	23.30	23.00	25.87	21.69	23.71	21.52	21.52	23.40	23.52	23.42	23.41	23.65	23.66	22.18
	30	23.66	24.19	23.67	22.78	23.02	23.18	23.25	23.02	23.25	21.73	23.31	23.30	23.01	25.85	21.66	23.79	21.63	21.65	23.40	23.40	23.49	23.27	23.48	23.56	22.24
	20	23.65	24.04	23.64	22.84	23.08	23.17	23.17	23.03	23.39	21.75	23.37	23.39	22.99	25.71	21.65	23.72	21.44	21.53	23.44	23.47	23.44	23.34	23.55	23.60	22.11
	10	23.70	24.10	23.59	22.97	23.20	23.21	23.34	23.16	23.21	21.81	23.31	23.37	22.94	25.81	21.55	23.76	21.48	21.59	23.30	23.35	23.50	23.41	23.61	23.59	22.11
	5	23.77	24.21	23.67	22.93	23.16	23.12	23.22	23.14	23.25	21.73	23.33	23.29	22.93	25.85	21.69	23.82	21.56	21.68	23.28	23.42	23.43	23.32	23.56	23.72	22.13
	4	23.66	24.18	23.75	22.96	23.02	23.20	23.33	23.06	23.28	21.86	23.41	23.36	23.04	25.83	21.65	23.84	21.56	21.61	23.47	23.54	23.39	23.23	23.58	23.56	22.19
	3	23.73	24.02	23.65	22.95	23.13	23.14	23.30	23.00	23.25	21.80	23.33	23.37	23.03	25.89	21.60	23.73	21.48	21.66	23.29	23.49	23.52	23.26	23.61	23.56	22.13
	2	23.65	24.18	23.60	22.83	23.17	23.15	23.35	23.04	23.28	21.89	23.32	23.39	22.97	25.77	21.63	23.80	21.62	21.52	23.32	23.38	23.50	23.27	23.59	23.52	22.20
	1	23.79	24.19	23.70	22.84	23.16	23.22	23.37	23.00	23.35	21.71	23.50	23.39	23.09	25.73	21.60	23.81	21.61	21.67	23.40	23.41	23.39	23.40	23.48	23.60	22.29

when the screen angle is from 0 degree to 360 degree																									
		MIMO2 Antenna 2																							
	Band	LTE Band 7	LTE Band 25/2	LTE Band 30	LTE Band 66/4	LTE Band 41/38	LTE Band 41 HPUE	LTE Band 42 Part 96	LTE Band 42 Part 27Q	LTE Band 43	LTE Band 48	FR1 n7	FR1 n25/2	FR1 n30	FR1 n66	FR1 n70	FR1 n38	FR1 n41	FR1 n41 HPUE	FR1 n48 Part 96	FR1 n77/78 Part 27Q	FR1 n77/78 Part 27Q HPUE	FR1 n77/78 Part 27Q	FR1 n77/78 Part 27Q HPUE	
Screen angle (degree) v.s. power	Lid Close	0	19.47	20.45	20.23	20.97	20.99	22.94	18.74	18.67	19.40	18.97	18.74	20.68	20.34	20.71	20.96	20.50	18.30	21.60	17.34	16.06	19.04	16.25	19.27
	Notebook	1	19.32	20.43	20.07	20.93	20.96	22.90	18.57	18.64	19.40	18.77	18.63	20.57	20.28	20.66	20.82	20.47	18.24	21.47	17.21	16.00	18.89	16.05	19.10
		2	19.42	20.26	20.08	20.91	20.83	22.82	18.66	18.60	19.27	18.77	18.56	20.60	20.14	20.58	20.78	20.39	18.28	21.50	17.33	15.95	18.84	16.11	19.16
		3	19.27	20.34	20.10	20.79	20.98	22.90	18.68	18.54	19.36	18.79	18.58	20.63	20.16	20.53	20.82	20.46	18.27	21.48	17.18	15.89	18.93	16.10	19.16
		4	19.32	20.37	20.15	20.88	20.97	22.86	18.64	18.58	19.23	18.89	18.54	20.68	20.30	20.52	20.94	20.30	18.24	21.48	17.18	15.89	18.90	16.14	19.25
		5	19.40	20.43	20.08	20.94	20.86	22.76	18.73	18.66	19.27	18.91	18.67	20.48	20.29	20.70	20.85	20.45	18.15	21.56	17.25	15.87	18.97	16.13	19.13
		10	19.27	20.28	20.05	20.81	20.99	22.83	18.60	18.49	19.31	18.88	18.72	20.55	20.22	20.56	20.91	20.38	18.30	21.44	17.34	15.87	18.85	16.22	19.14
		20	19.46	20.37	20.19	20.91	20.96	22.79	18.62	18.64	19.23	18.90	18.55	20.67	20.23	20.51	20.78	20.38	18.22	21.51	17.32	15.98	18.97	16.13	19.10
		30	19.28	20.43	20.13	20.97	20.92	22.81	18.74	18.59	19.25	18.80	18.71	20.55	20.29	20.68	20.89	20.44	18.19	21.48	17.22	16.06	18.91	16.08	19.14
		40	19.45	20.25	20.03	20.87	20.98	22.82	18.68	18.67	19.36	18.95	18.61	20.54	20.24	20.71	20.83	20.45	18.14	21.59	17.29	15.90	18.92	16.17	19.15
		50	19.31	20.40	20.07	20.78	20.83	22.79	18.64	18.66	19.24	18.84	18.69	20.67	20.32	20.52	20.92	20.49	18.17	21.59	17.20	15.95	18.97	16.22	19.19
		60	19.37	20.29	20.05	20.78	20.84	22.91	18.58	18.50	19.20	18.97	18.62	20.49	20.26	20.64	20.80	20.33	18.15	21.43	17.22	15.94	18.97	16.10	19.12
		70	19.46	20.34	20.14	20.79	20.81	22.90	18.65	18.54	19.25	18.94	18.62	20.51	20.33	20.63	20.83	20.48	18.12	21.46	17.15	15.92	18.89	16.09	19.15
		80	19.30	20.39	20.20	20.93	20.97	22.81	18.70	18.63	19.36	18.81	18.54	20.60	20.15	20.52	20.78	20.37	18.25	21.58	17.19	15.93	18.89	16.25	19.22
		90	19.29	20.34	20.15	20.81	20.97	22.84	18.61	18.63	19.21	18.90	18.59	20.60	20.31	20.71	20.84	20.45	18.28	21.49	17.23	15.93	18.91	16.14	19.18
		100	19.30	20.36	20.11	20.83	20.89	22.81	18.68	18.61	19.37	18.93	18.67	20.66	20.17	20.60	20.81	20.49	18.20	21.60	17.23	15.90	18.90	16.25	19.18
		110	19.35	20.40	20.11	20.94	20.89	22.84	18.64	18.62	19.40	18.83	18.54	20.51	20.24	20.57	20.85	20.33	18.20	21.44	17.15	16.02	18.89	16.14	19.10
		120	19.45	20.32	20.08	20.95	20.96	22.89	18.57	18.67	19.34	18.83	18.70	20.61	20.17	20.69	20.80	20.50	18.24	21.44	17.32	15.90	18.88	16.10	19.20
		130	19.40	20.37	20.20	20.81	20.91	22.76	18.61	18.63	19.26	18.85	18.68	20.61	20.22	20.62	20.80	20.30	18.24	21.41	17.33	15.99	18.84	16.17	19.08
		140	19.28	20.35	20.05	20.91	20.96	22.80	18.59	18.52	19.32	18.92	18.68	20.61	20.23	20.58	20.76	20.34	18.27	21.57	17.17	15.93	18.84	16.13	19.12
		150	19.31	20.43	20.23	20.79	20.85	22.77	18.60	18.47	19.29	18.86	18.72	20.55	20.17	20.58	20.78	20.31	18.23	21.55	17.22	15.93	18.86	16.12	19.15
	160	19.39	20.25	20.20	20.93	20.84	22.89	18.74	18.60	19.29	18.79	18.68	20.55	20.22	20.58	20.88	20.37	18.30	21.53	17.34	16.03	19.03	16.12	19.27	
	170	19.38	20.25	20.06	20.85	20.99	22.81	18.66	18.56	19.37	18.94	18.66	20.60	20.27	20.62	20.81	20.41	18.12	21.53	17.23	16.06	18.95	16.10	19.15	
	180	19.34	20.37	20.03	20.80	20.79	22.88	18.72	18.49	19.40	18.84	18.74	20.52	20.20	20.59	20.79	20.32	18.10	21.50	17.19	15.97	19.04	16.25	19.23	
	185	19.47	20.30	20.12	20.85	20.87	22.87	18.58	18.50	19.20	18.78	18.56	20.59	20.32	20.71	20.82	20.33	18.18	21.54	17.24	16.06	18.99	16.06	19.07	
	186	19.33	20.41	20.18	20.96	20.94	22.75	18.69	18.61	19.35	18.88	18.55	20.60	20.15	20.58	20.93	20.48	18.22	21.60	17.17	15.95	18.94	16.06	19.12	
	187	19.33	20.27	20.18	20.92	20.91	22.77	18.69	18.48	19.21	18.77	18.72	20.54	20.27	20.55	20.86	20.35	18.13	21.49	17.33	15.86	18.91	16.08	19.20	
	188	19.31	20.42	20.23	20.86	20.79	22.92	18.58	18.63	19.34	18.82	18.61	20.52	20.21	20.63	20.92	20.37	18.25	21.44	17.21	16.05	19.00	16.14	19.17	
	189	19.28	20.43	20.19	20.81	20.79	22.93	18.65	18.55	19.32	18.86	18.74	20.59	20.24	20.67	20.89	20.30	18.11	21.47	17.27	16.06	18.85	16.11	19.24	
	190	19.33	20.33	20.06	20.91	20.93	22.78	18.74	18.53	19.38	18.83	18.57	20.50	20.31	20.70	20.80	20.34	18.29	21.44	17.32	15.90	18.97	16.10	19.18	
Tablet Mode	191	12.95	13.59	13.85	13.41	13.12	16.48	12.46	12.59	11.47	11.58	13.16	13.72	13.85	13.19	13.30	12.46	12.77	16.03	8.95	9.38	12.20	9.46	12.45	
	192	12.83	13.42	13.68	13.26	13.07	16.42	12.40	12.52	11.41	11.40	13.08	13.65	13.80	13.03	13.12	12.38	12.69	15.99	8.76	9.37	12.17	9.44	12.44	
	193	12.79	13.44	13.68	13.32	12.93	16.48	12.28	12.55	11.31	11.40	13.11	13.52	13.66	13.00	13.26	12.45	12.60	15.83	8.88	9.33	12.14	9.36	12.40	
	194	12.87	13.45	13.77	13.23	13.08	16.35	12.27	12.49	11.42	11.38	13.15	13.69	13.82	13.05	13.18	12.44	12.59	15.88	8.83	9.29	12.17	9.41	12.31	
	195	12.90	13.45	13.78	13.32	12.99	16.36	12.41	12.48	11.27	11.47	13.13	13.54	13.78	13.13	13.18	12.31	12.62	15.89	8.83	9.21	12.20	9.30	12.32	



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		200	12.78	13.53	13.84	13.36	12.98	16.37	12.30	12.41	11.42	11.41	13.00	13.65	13.74	12.99	13.14	12.43	12.76	16.00	8.79	9.23	12.18	9.36	12.45
		205	12.93	13.43	13.74	13.25	13.02	16.36	12.41	12.55	11.41	11.41	12.96	13.56	13.66	13.09	13.12	12.35	12.75	15.97	8.78	9.26	12.13	9.44	12.45
		210	12.85	13.57	13.70	13.22	13.11	16.39	12.35	12.57	11.39	11.45	12.96	13.61	13.68	13.00	13.30	12.38	12.70	15.94	8.87	9.35	12.00	9.38	12.27
		220	12.80	13.49	13.66	13.40	12.97	16.43	12.43	12.47	11.28	11.40	13.04	13.56	13.85	13.04	13.30	12.46	12.63	15.90	8.88	9.18	12.13	9.43	12.33
		230	12.82	13.49	13.67	13.37	12.94	16.28	12.38	12.57	11.40	11.45	13.02	13.61	13.76	13.07	13.17	12.44	12.59	15.96	8.87	9.22	12.08	9.38	12.40
		240	12.88	13.43	13.80	13.22	13.09	16.35	12.42	12.47	11.36	11.58	13.16	13.60	13.75	13.17	13.15	12.45	12.58	16.01	8.90	9.33	12.13	9.46	12.28
		250	12.79	13.52	13.69	13.30	12.95	16.33	12.46	12.48	11.35	11.56	13.04	13.55	13.69	13.02	13.28	12.30	12.64	15.87	8.85	9.33	12.15	9.38	12.30
		260	12.75	13.40	13.72	13.36	13.00	16.34	12.37	12.45	11.38	11.43	13.09	13.52	13.65	13.03	13.16	12.39	12.64	15.84	8.78	9.19	12.13	9.31	12.29
		270	12.89	13.40	13.70	13.23	12.95	16.39	12.40	12.41	11.37	11.51	12.97	13.58	13.76	13.06	13.30	12.41	12.57	15.88	8.93	9.23	12.20	9.34	12.42
		280	12.78	13.47	13.84	13.22	12.94	16.33	12.41	12.42	11.27	11.41	13.03	13.54	13.69	13.13	13.23	12.33	12.65	15.94	8.94	9.37	12.11	9.29	12.30
		290	12.82	13.42	13.68	13.28	13.08	16.30	12.42	12.51	11.33	11.41	13.02	13.61	13.83	13.00	13.20	12.28	12.66	15.91	8.93	9.31	12.04	9.46	12.27
		300	12.75	13.44	13.81	13.22	12.98	16.38	12.42	12.51	11.42	11.43	13.11	13.60	13.67	13.06	13.13	12.26	12.61	15.97	8.93	9.24	12.13	9.43	12.31
		310	12.77	13.53	13.69	13.24	13.00	16.31	12.34	12.43	11.41	11.58	13.08	13.72	13.77	13.16	13.11	12.35	12.76	15.85	8.88	9.37	12.05	9.45	12.34
		320	12.80	13.41	13.74	13.24	13.08	16.48	12.37	12.42	11.44	11.39	13.11	13.70	13.82	13.02	13.23	12.38	12.77	15.96	8.80	9.18	12.00	9.31	12.38
		330	12.91	13.49	13.78	13.31	12.97	16.44	12.39	12.57	11.32	11.49	13.16	13.60	13.75	13.08	13.10	12.34	12.63	15.99	8.88	9.22	12.14	9.41	12.31
		340	12.87	13.52	13.77	13.32	12.92	16.41	12.40	12.43	11.39	11.44	13.00	13.60	13.85	13.11	13.29	12.36	12.59	15.91	8.76	9.24	12.11	9.43	12.43
		350	12.92	13.43	13.73	13.37	13.01	16.34	12.38	12.41	11.28	11.54	13.15	13.69	13.81	13.14	13.18	12.40	12.60	16.03	8.84	9.23	12.10	9.30	12.35
		360	12.84	13.46	13.67	13.27	13.03	16.30	12.38	12.54	11.27	11.56	13.03	13.65	13.85	13.00	13.24	12.39	12.68	15.83	8.82	9.33	12.13	9.42	12.25

when the screen angle is from 0 degree to 360 degree																									
Screen angle (degree) v.s. power	Wireless		MIMO2 Antenna 2																						
	Band		LTE Band 7	LTE Band 25/2	LTE Band 30	LTE Band 66/4	LTE Band 41/38	LTE Band 41 HPUE	LTE Band 42 Part 96	LTE Band 42 Part 27Q	LTE Band 43	LTE Band 48	FR1 n7	FR1 n25/2	FR1 n30	FR1 n66	FR1 n70	FR1 n38	FR1 n41	FR1 n41 HPUE	FR1 n48 Part 96	FR1 n77/78 Part 27Q	FR1 n77/78 Part 27Q HPUE	FR1 n77/78 Part 27Q	FR1 n77/78 Part 27Q HPUE
Tablet Mode	360	12.95	13.59	13.85	13.41	13.12	16.48	12.46	12.59	11.47	11.58	13.16	13.72	13.85	13.19	13.30	12.46	12.77	16.03	8.95	9.38	12.20	9.46	12.45	
	350	12.85	13.40	13.73	13.24	13.12	16.44	12.38	12.42	11.44	11.44	13.16	13.67	13.84	13.10	13.12	12.36	12.67	15.83	8.94	9.26	12.18	9.26	12.32	
	340	12.91	13.58	13.73	13.40	13.09	16.39	12.30	12.59	11.42	11.51	13.06	13.59	13.82	13.07	13.16	12.28	12.69	15.92	8.87	9.29	12.16	9.46	12.44	
	330	12.76	13.56	13.76	13.24	12.92	16.40	12.32	12.53	11.32	11.55	13.11	13.58	13.82	13.19	13.14	12.42	12.77	15.85	8.76	9.30	12.18	9.34	12.40	
	320	12.76	13.39	13.78	13.27	13.07	16.40	12.38	12.46	11.38	11.53	12.98	13.68	13.85	13.17	13.13	12.43	12.59	15.90	8.80	9.22	12.06	9.44	12.32	
	310	12.76	13.43	13.67	13.22	13.04	16.34	12.44	12.53	11.44	11.42	13.12	13.70	13.74	13.18	13.18	12.40	12.71	15.93	8.83	9.33	12.18	9.29	12.26	
	300	12.89	13.49	13.84	13.32	12.93	16.44	12.44	12.56	11.36	11.51	13.09	13.70	13.77	13.18	13.20	12.36	12.71	15.83	8.88	9.20	12.04	9.28	12.25	
	290	12.76	13.40	13.82	13.26	13.10	16.38	12.46	12.47	11.33	11.56	13.11	13.65	13.79	13.19	13.13	12.43	12.74	16.02	8.86	9.31	12.10	9.33	12.30	
	280	12.82	13.58	13.71	13.29	13.10	16.39	12.42	12.50	11.31	11.42	13.14	13.67	13.81	13.18	13.28	12.37	12.60	16.01	8.91	9.32	12.10	9.32	12.44	
	270	12.77	13.50	13.78	13.30	12.96	16.44	12.46	12.43	11.30	11.42	13.10	13.69	13.84	13.00	13.27	12.44	12.66	15.84	8.95	9.22	12.00	9.42	12.36	
	260	12.81	13.40	13.84	13.23	13.09	16.28	12.44	12.55	11.46	11.45	13.07	13.61	13.77	13.04	13.16	12.39	12.65	16.00	8.77	9.19	12.00	9.28	12.38	
	250	12.85	13.44	13.73	13.21	13.11	16.36	12.37	12.41	11.37	11.42	13.00	13.72	13.72	13.07	13.24	12.39	12.73	15.84	8.77	9.27	12.06	9.31	12.31	
	240	12.82	13.57	13.85	13.28	13.09	16.47	12.30	12.59	11.43	11.46	12.96	13.65	13.66	13.05	13.27	12.46	12.76	15.92	8.95	9.18	12.11	9.46	12.30	
	230	12.85	13.53	13.78	13.22	13.08	16.28	12.30	12.57	11.40	11.39	12.96	13.57	13.82	13.12	13.15	12.43	12.77	15.88	8.79	9.28	12.05	9.37	12.45	
	220	12.90	13.45	13.79	13.22	13.00	16.36	12.44	12.58	11.36	11.57	13.02	13.70	13.78	13.00	13.19	12.37	12.61	15.94	8.79	9.33	12.00	9.45	12.40	
	210	12.87	13.59	13.74	13.24	13.00	16.35	12.39	12.44	11.36	11.46	13.11	13.58	13.67	13.08	13.21	12.43	12.74	15.91	8.86	9.38	12.16	9.36	12.45	
	200	12.95	13.59	13.75	13.35	13.08	16.31	12.31	12.54	11.43	11.53	13.16	13.60	13.80	12.99	13.17	12.30	12.62	15.89	8.78	9.26	12.13	9.34	12.30	
	190	12.84	13.41	13.72	13.27	13.05	16.33	12.41	12.53	11.27	11.41	13.07	13.60	13.76	13.00	13.13	12.46	12.75	15.86	8.89	9.18	12.07	9.31	12.34	
	180	12.88	13.56	13.76	13.26	13.06	16.44	12.28	12.59	11.40	11.55	13.14	13.67	13.79	13.07	13.12	12.44	12.73	16.02	8.83	9.19	12.06	9.45	12.38	
	175	12.93	13.39	13.81	13.33	12.93	16.32	12.45	12.59	11.36	11.57	13.09	13.54	13.69	13.10	13.28	12.31	12.65	15.94	8.89	9.38	12.02	9.26	12.34	
	174	12.93	13.49	13.80	13.28	12.98	16.32	12.43	12.46	11.45	11.44	12.96	13.58	13.83	13.15	13.17	12.27	12.66	15.83	8.95	9.28	12.08	9.33	12.32	
	173	12.86	13.41	13.84	13.32	13.10	16.46	12.35	12.39	11.35	11.57	12.98	13.65	13.76	13.10	13.25	12.46	12.75	15.89	8.88	9.33	12.00	9.31	12.28	
	172	12.80	13.44	13.85	13.30	13.11	16.42	12.43	12.53	11.33	11.52	13.14	13.61	13.70	13.05	13.30	12.45	12.71	16.00	8.77	9.24	12.20	9.40	12.44	
	171	12.83	13.44	13.70	13.22	13.05	16.30	12.34	12.52	11.27	11.40	13.12	13.66	13.69	13.08	13.24	12.39	12.76	16.02	8.86	9.20	12.10	9.39	12.36	
	170	12.81	13.56	13.72	13.34	12.98	16.30	12.45	12.40	11.43	11.52	13.12	13.59	13.65	13.19	13.26	12.33	12.66	15.91	8.84	9.19	12.05	9.35	12.26	
Notebook	169	19.42	20.35	20.10	20.82	20.89	22.93	18.58	18.53	19.30	18.90	18.55	20.68	20.15	20.56	20.85	20.45	18.11	21.43	17.14	15.95	18.89	16.18	19.25	
	168	19.47	20.43	20.20	20.86	20.93	22.85	18.73	18.50	19.40	18.95	18.62	20.48	20.17	20.55	20.82	20.36	18.25	21.42	17.16	15.97	18.97	16.18	19.17	
	167	19.43	20.32	20.04	20.87	20.96	22.85	18.68	18.54	19.38	18.94	18.68	20.67	20.16	20.63	20.96	20.32	18.17	21.48	17.33	15.90	19.01	16.14	19.07	
	166	19.38	20.30	20.07	20.81	20.92	22.85	18.66	18.64	19.33	18.89	18.61	20.65	20.33	20.66	20.85	20.34	18.21	21.40	17.33	15.97	19.02	16.20	19.26	
	165	19.42	20.35	20.08	20.83	20.85	22.85	18.61	18.54	19.38	18.92	18.60	20.52	20.14	20.71	20.79	20.31	18.17	21.57	17.22	15.91	18.91	16.22	19.24	
	160	19.28	20.35	20.15	20.90	20.87	22.86	18.56	18.67	19.29	18.95	18.54	20.62	20.15	20.61	20.95	20.48	18.20	21.46	17.31	15.98	18.87	16.06	19.10	
	155	19.29	20.25	20.17	20.77	20.87	22.94	18.64	18.51	19.35	18.77	18.63	20.67	20.16	20.52	20.96	20.36	18.28	21.57	17.31	15.89	18.91	16.15	19.09	



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	150	19.43	20.37	20.05	20.84	20.81	22.82	18.68	18.57	19.40	18.82	18.65	20.62	20.23	20.68	20.94	20.45	18.28	21.57	17.32	16.00	18.91	16.16	19.16
	140	19.34	20.42	20.23	20.88	20.90	22.81	18.61	18.48	19.40	18.97	18.57	20.52	20.22	20.58	20.94	20.31	18.12	21.49	17.33	16.01	19.04	16.14	19.19
	130	19.34	20.44	20.10	20.95	20.99	22.93	18.62	18.50	19.27	18.87	18.55	20.67	20.20	20.64	20.84	20.45	18.18	21.52	17.14	15.88	19.00	16.23	19.17
	120	19.37	20.43	20.20	20.85	20.81	22.75	18.58	18.54	19.34	18.91	18.64	20.59	20.22	20.53	20.82	20.49	18.10	21.47	17.17	15.90	18.88	16.23	19.12
	110	19.47	20.27	20.14	20.86	20.90	22.89	18.60	18.66	19.20	18.85	18.68	20.63	20.32	20.67	20.78	20.36	18.13	21.43	17.29	15.97	18.88	16.20	19.20
	100	19.38	20.37	20.15	20.79	20.98	22.77	18.70	18.53	19.27	18.91	18.65	20.60	20.23	20.55	20.85	20.47	18.26	21.43	17.28	15.94	18.98	16.16	19.23
	90	19.35	20.34	20.03	20.90	20.99	22.91	18.67	18.60	19.20	18.90	18.73	20.52	20.20	20.67	20.90	20.30	18.18	21.44	17.30	15.99	19.04	16.13	19.15
	80	19.44	20.35	20.13	20.89	20.79	22.93	18.69	18.47	19.37	18.86	18.59	20.56	20.23	20.68	20.76	20.32	18.19	21.54	17.16	15.90	19.04	16.06	19.10
	70	19.36	20.25	20.18	20.90	20.92	22.86	18.70	18.61	19.21	18.77	18.58	20.62	20.32	20.58	20.85	20.34	18.10	21.56	17.27	15.89	18.98	16.11	19.12
	60	19.43	20.34	20.18	20.83	20.92	22.93	18.73	18.56	19.35	18.81	18.62	20.60	20.23	20.53	20.84	20.34	18.25	21.45	17.23	15.86	18.93	16.05	19.15
	50	19.47	20.33	20.05	20.96	20.90	22.93	18.56	18.54	19.29	18.88	18.66	20.62	20.16	20.62	20.87	20.38	18.16	21.60	17.16	16.00	18.89	16.24	19.22
	40	19.29	20.32	20.11	20.81	20.92	22.74	18.62	18.61	19.39	18.89	18.66	20.57	20.18	20.70	20.94	20.41	18.18	21.54	17.27	15.98	19.00	16.17	19.09
	30	19.43	20.44	20.13	20.96	20.92	22.86	18.68	18.67	19.38	18.83	18.64	20.56	20.34	20.52	20.78	20.46	18.27	21.59	17.20	15.93	18.84	16.12	19.07
	20	19.34	20.37	20.14	20.82	20.83	22.86	18.58	18.67	19.25	18.86	18.60	20.66	20.15	20.51	20.90	20.50	18.11	21.53	17.17	16.04	18.97	16.18	19.15
	10	19.29	20.30	20.03	20.89	20.79	22.90	18.59	18.61	19.32	18.83	18.71	20.62	20.33	20.51	20.76	20.45	18.27	21.40	17.18	15.86	18.88	16.25	19.08
	5	19.37	20.26	20.04	20.78	20.83	22.76	18.58	18.65	19.34	18.97	18.64	20.48	20.17	20.54	20.92	20.35	18.15	21.48	17.23	15.96	18.91	16.22	19.08
	4	19.36	20.29	20.03	20.86	20.86	22.76	18.59	18.61	19.27	18.85	18.65	20.68	20.22	20.58	20.79	20.42	18.11	21.47	17.34	15.86	18.96	16.18	19.19
	3	19.41	20.45	20.14	20.79	20.95	22.78	18.71	18.59	19.20	18.80	18.59	20.53	20.17	20.53	20.84	20.39	18.17	21.53	17.29	16.04	18.98	16.13	19.20
	2	19.37	20.45	20.20	20.97	20.80	22.74	18.69	18.47	19.21	18.82	18.72	20.51	20.28	20.55	20.92	20.48	18.28	21.44	17.24	15.89	18.85	16.15	19.18
	1	19.36	20.27	20.10	20.97	20.87	22.76	18.67	18.57	19.30	18.82	18.73	20.48	20.33	20.69	20.84	20.43	18.26	21.44	17.17	15.90	18.97	16.10	19.11
Lid Close	0	19.5	20.45	20.23	20.97	20.99	22.94	18.7	18.7	19.4	18.97	18.7	20.7	20.34	20.7	20.96	20.5	18.30	21.60	17.34	16.06	19.04	16.3	19.3

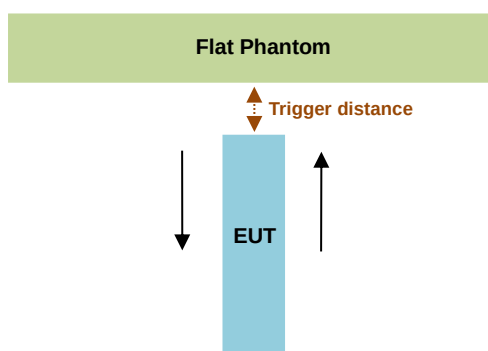
5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance (KDB 616217 D04 section 6.2)>:

For the device is fully integrated, touch sensing capacitive sensor. It uses a charge transfer capacitive acquisition method that is capable of near range proximity detection. In this device offers a state of the art capacitive sensing engine with an embedded sampling capacitor and voltage regulator allowing the overall solution cost to be reduced and improving system immunity in noisy environments.

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. The details are illustrated as following, and the shortest triggering distances were reported and used for SAR assessment.

In the preliminary triggering distance testing, the tissue-equivalent medium for different frequency bands were used for verification; no other frequency bands tissue-equivalent medium was found to result in shortest triggering distance than that for 1900MHz, and the tissue-equivalent medium for 1900MHz was used for formal proximity sensor triggering testing.



Main Antenna 0				
Proximity Sensor Trigger Distance (mm)				
Position	Edge 1		Edge 2	
	moving toward	moving away	moving toward	moving away
Minimum	38	38	3	3

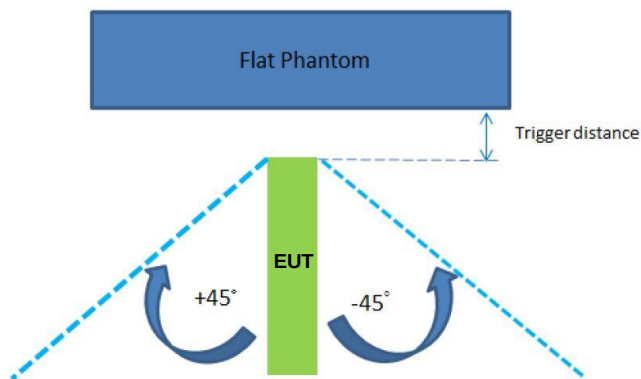
MIMO2 Antenna 2						
Proximity Sensor Trigger Distance (mm)						
Position	Bottom of Laptop		Bottom Face		Edge 3	
	moving toward	moving away	moving toward	moving toward	moving toward	moving away
Minimum	11	11	36	36	27	27

<Proximity Sensor Triggering Coverage (KDB 616217 D04 section 6.3)>:

Since the antenna and sensor are collocated and all of the peak SAR location is overlapping with the sensor pad for this device, therefore, According to KDB 616217 section 6.3, these procedures do not apply and are not required for this device. Due to the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor on this device.

<Tablet Tilt angle influences to proximity sensor triggering (KDB 616217 D04 section 6.4)>:

The influence of table tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at above separation distance. Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Main Antenna 0				
The Sensor Trigger Distance (mm)				
Position	Edge 1		Edge 2	
	+45	-45	45	-45
Minimum	43	38	3	4

MIMO2 Antenna 2		
The Sensor Trigger Distance (mm)		
Position	Edge 3	
	45	-45
Minimum	27	36

Proximity sensor power reduction
<For Tablet Mode>

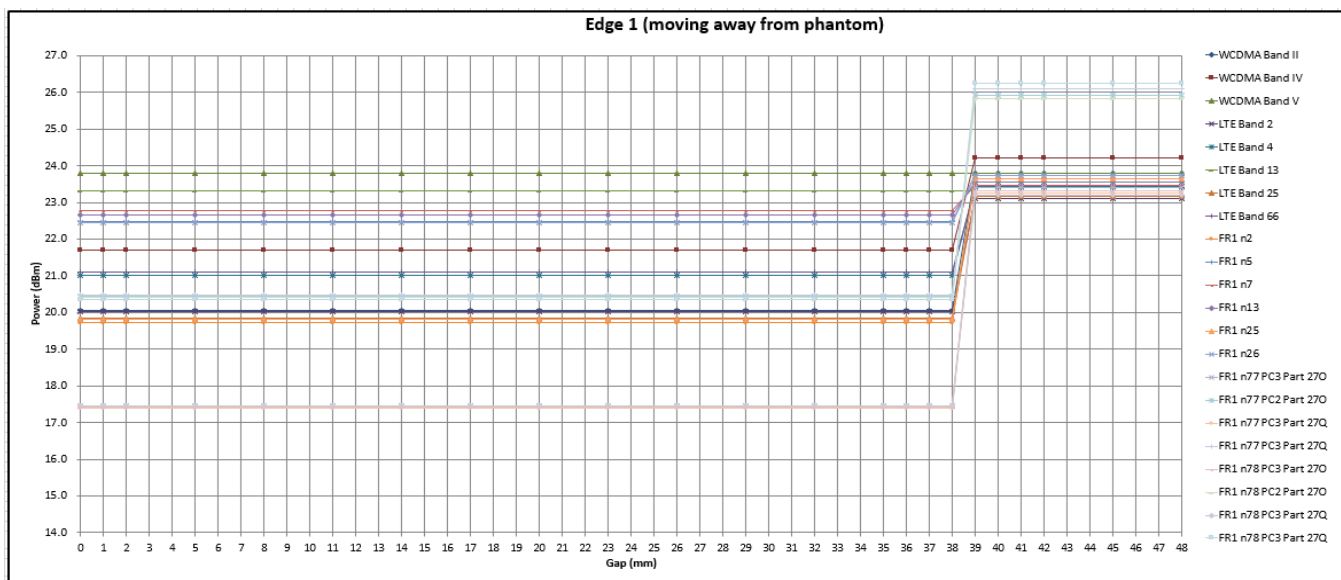
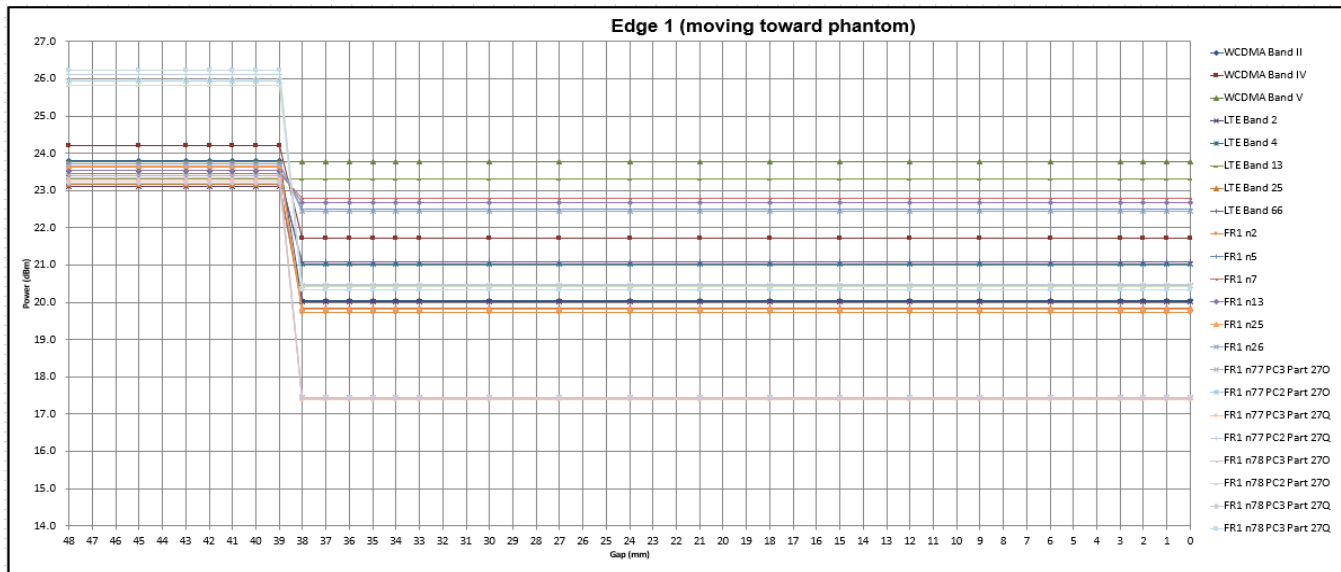
Exposure Position / wireless mode	Antenna	Reduce Level (dB) Bottom Face / Edge 1 / Edge 2 / Edge 3 ⁽¹⁾
WCDMA II	Main(Ant0)	4.0 dB
WCDMA IV	Main(Ant0)	2.5 dB
WCDMA V	Main(Ant0)	0.5 dB
LTE Band 2	Main(Ant0)	3.0 dB
LTE Band 4	Main(Ant0)	2.0 dB
LTE Band 13	Main(Ant0)	1.0 dB
LTE Band 25	Main(Ant0)	3.0 dB
LTE Band 66	Main(Ant0)	2.0 dB
FR1 n2	Main(Ant0)	3.5 dB
FR1 n5	Main(Ant0)	1.0 dB
FR1 n7	Main(Ant0)	0.5 dB
FR1 n13	Main(Ant0)	0.5 dB
FR1 n25	Main(Ant0)	3.5 dB
FR1 n26	Main(Ant0)	1.0 dB
FR1 n77	Main(Ant0)	5.5 dB
FR1 n77_HPUE	Main(Ant0)	5.5 dB
FR1 n78	Main(Ant0)	5.5 dB
FR1 n78_HPUE	Main(Ant0)	5.5 dB
LTE Band 2	MIMO2(Ant2)	9.5 dB
LTE Band 4	MIMO2(Ant2)	10.0 dB
LTE Band 7	MIMO2(Ant2)	11.0 dB
LTE Band 25	MIMO2(Ant2)	9.5 dB
LTE Band 30	MIMO2(Ant2)	8.0 dB
LTE Band 38	MIMO2(Ant2)	10.0 dB
LTE Band 41	MIMO2(Ant2)	10.0 dB
LTE Band 41_HPUE	MIMO2(Ant2)	10.0 dB
LTE Band 42_Part 96	MIMO2(Ant2)	9.0 dB
LTE Band 42_Part 27Q	MIMO2(Ant2)	11.0 dB
LTE Band 43	MIMO2(Ant2)	10.0 dB
LTE Band 48	MIMO2(Ant2)	9.5 dB
LTE Band 66	MIMO2(Ant2)	10.0 dB
FR1 n2	MIMO2(Ant2)	9.5 dB
FR1 n7	MIMO2(Ant2)	10.5 dB
FR1 n25	MIMO2(Ant2)	9.0 dB
FR1 n30	MIMO2(Ant2)	8.5 dB
FR1 n38	MIMO2(Ant2)	10.5 dB
FR1 n41	MIMO2(Ant2)	10.5 dB
FR1 n41_HPUE	MIMO2(Ant2)	10.5 dB
FR1 n48	MIMO2(Ant2)	12.5 dB
FR1 n66	MIMO2(Ant2)	10.0 dB
FR1 n70	MIMO2(Ant2)	10.0 dB
FR1 n77	MIMO2(Ant2)	14.0 dB
FR1 n77_HPUE	MIMO2(Ant2)	14.0 dB
FR1 n78	MIMO2(Ant2)	14.0 dB
FR1 n78_HPUE	MIMO2(Ant2)	14.0 dB

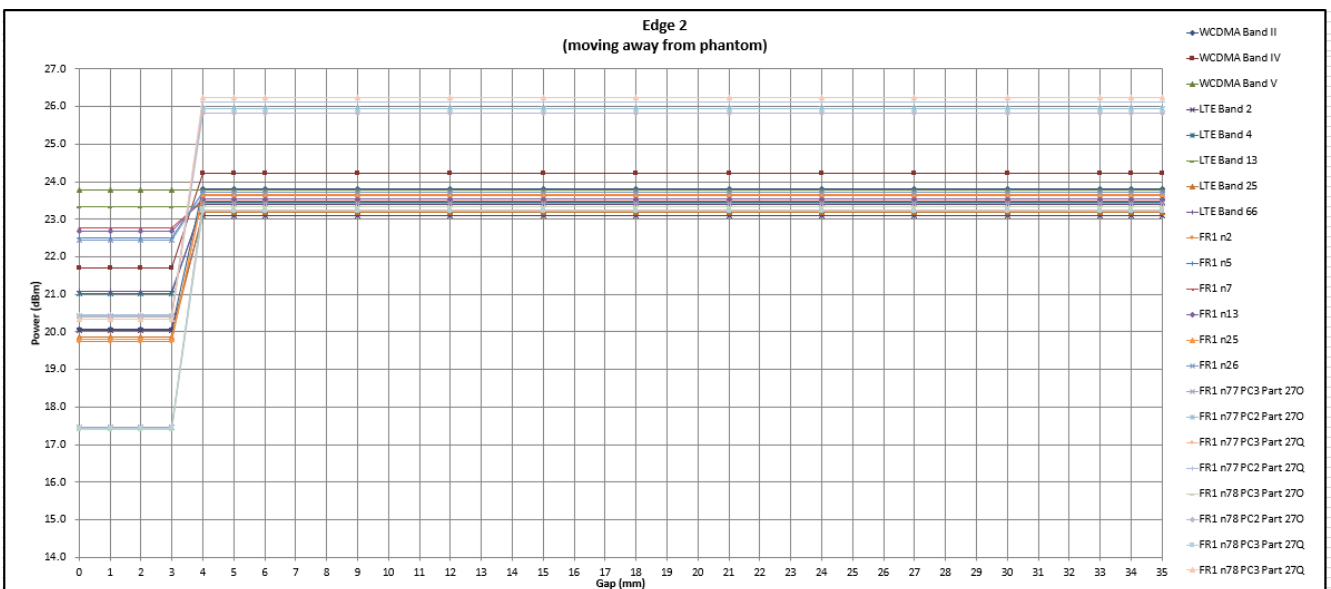
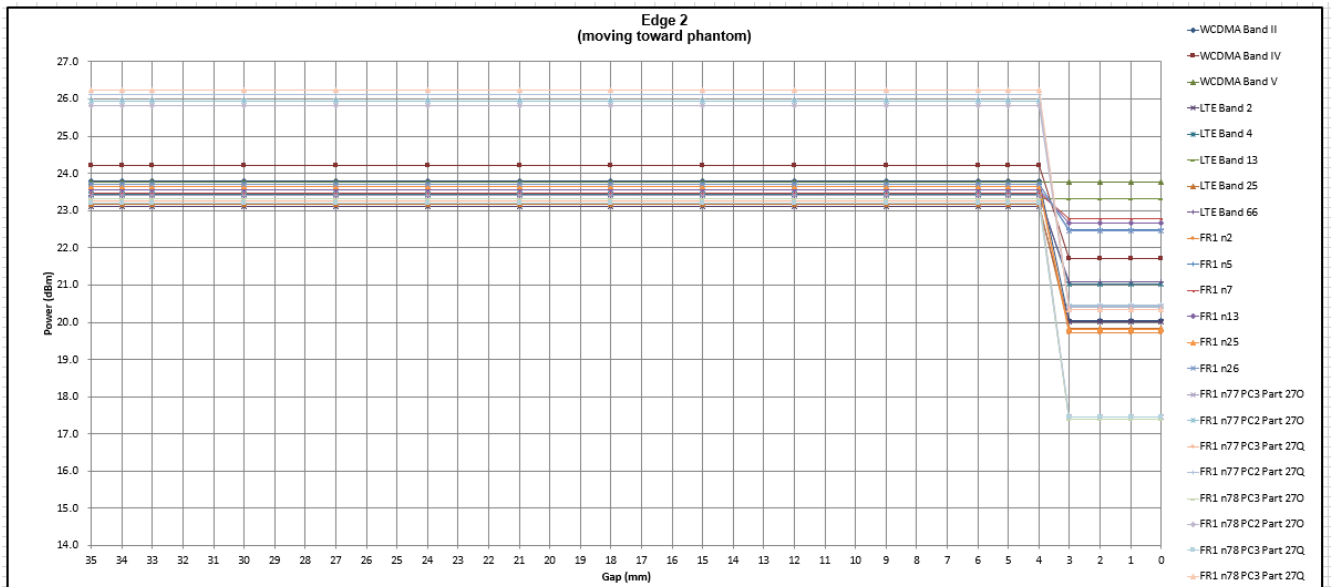
<For Laptop Mode>

Band	Antenna	Reduce Level (dB) Bottom of Laptop ⁽¹⁾
LTE Band 2	MIMO2(Ant2)	2.5 dB
LTE Band 4	MIMO2(Ant2)	3.0 dB
LTE Band 7	MIMO2(Ant2)	4.5 dB
LTE Band 25	MIMO2(Ant2)	2.5 dB
LTE Band 30	MIMO2(Ant2)	2.0 dB
LTE Band 38	MIMO2(Ant2)	2.5 dB
LTE Band 41	MIMO2(Ant2)	2.5 dB
LTE Band 41_HPUE	MIMO2(Ant2)	4.0 dB
LTE Band 42_Part 96	MIMO2(Ant2)	3.0 dB
LTE Band 42_Part 27Q	MIMO2(Ant2)	5.0 dB
LTE Band 43	MIMO2(Ant2)	2.5 dB
LTE Band 48	MIMO2(Ant2)	2.0 dB
LTE Band 66	MIMO2(Ant2)	3.0 dB
FR1 n2	MIMO2(Ant2)	2.5 dB
FR1 n7	MIMO2(Ant2)	5.0 dB
FR1 n25	MIMO2(Ant2)	2.5 dB
FR1 n30	MIMO2(Ant2)	2.0 dB
FR1 n38	MIMO2(Ant2)	3.5 dB
FR1 n41	MIMO2(Ant2)	5.0 dB
FR1 n41_HPUE	MIMO2(Ant2)	5.0 dB
FR1 n48	MIMO2(Ant2)	4.5 dB
FR1 n66	MIMO2(Ant2)	3.0 dB
FR1 n70	MIMO2(Ant2)	3.0 dB
FR1 n77	MIMO2(Ant2)	7.0 dB
FR1 n77_HPUE	MIMO2(Ant2)	7.0 dB
FR1 n78	MIMO2(Ant2)	7.0 dB
FR1 n78_HPUE	MIMO2(Ant2)	7.0 dB

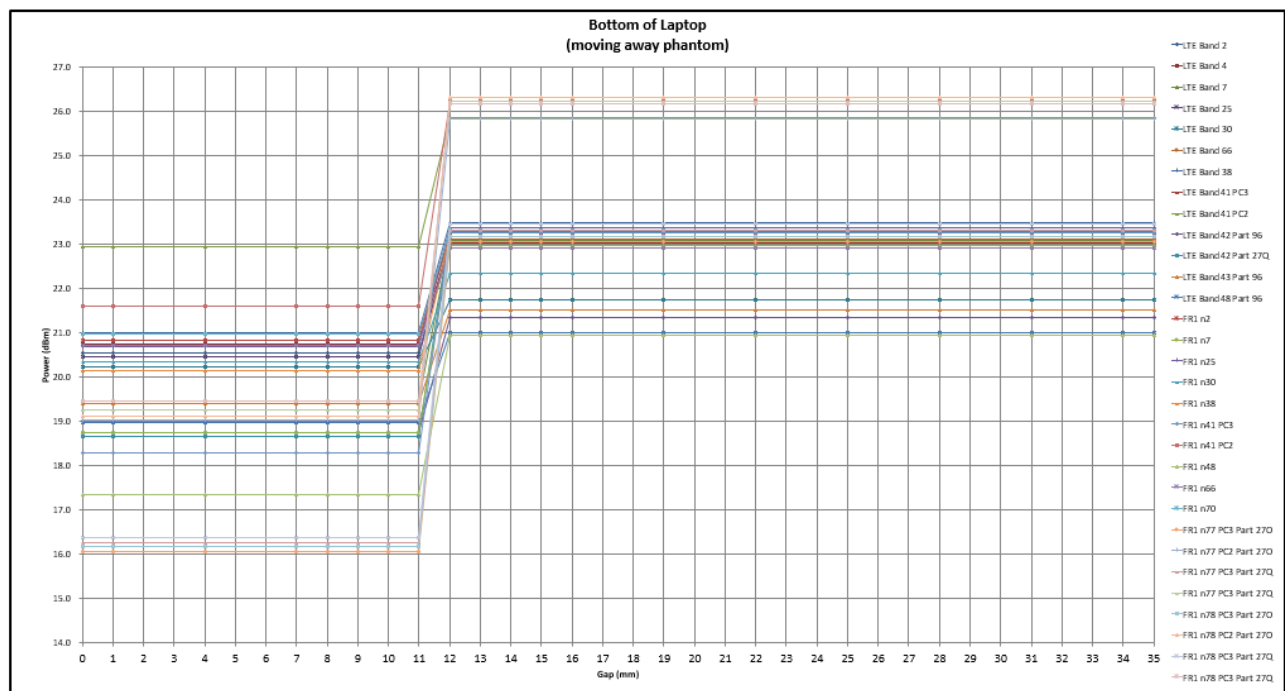
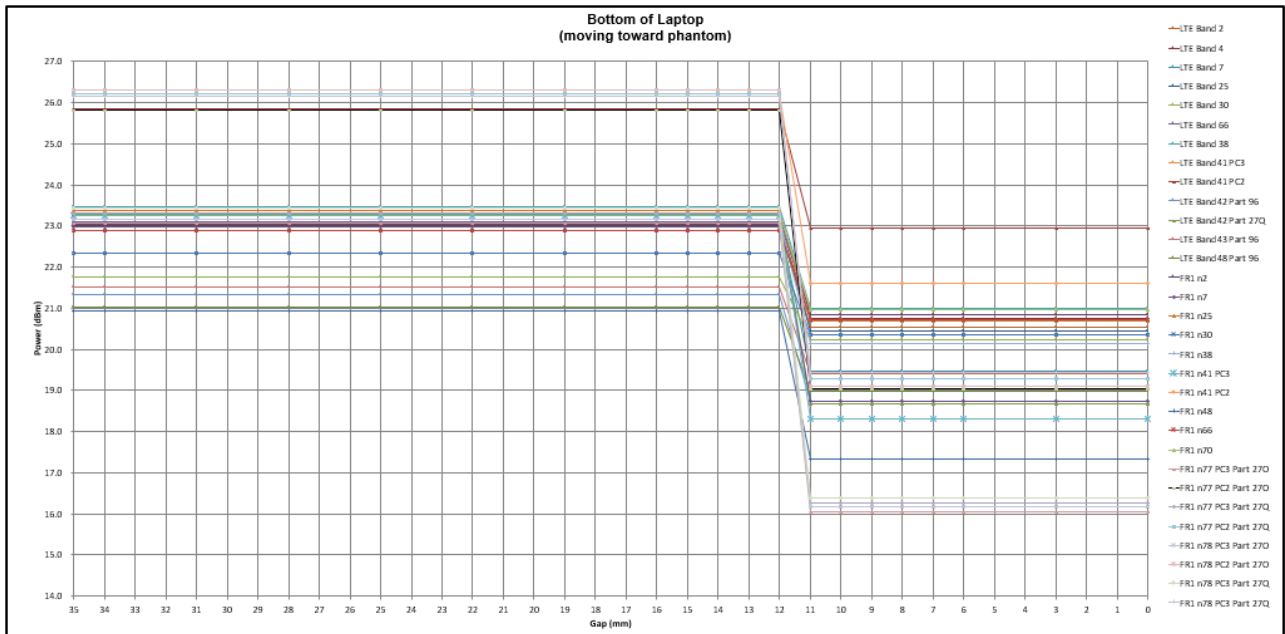
Remark:

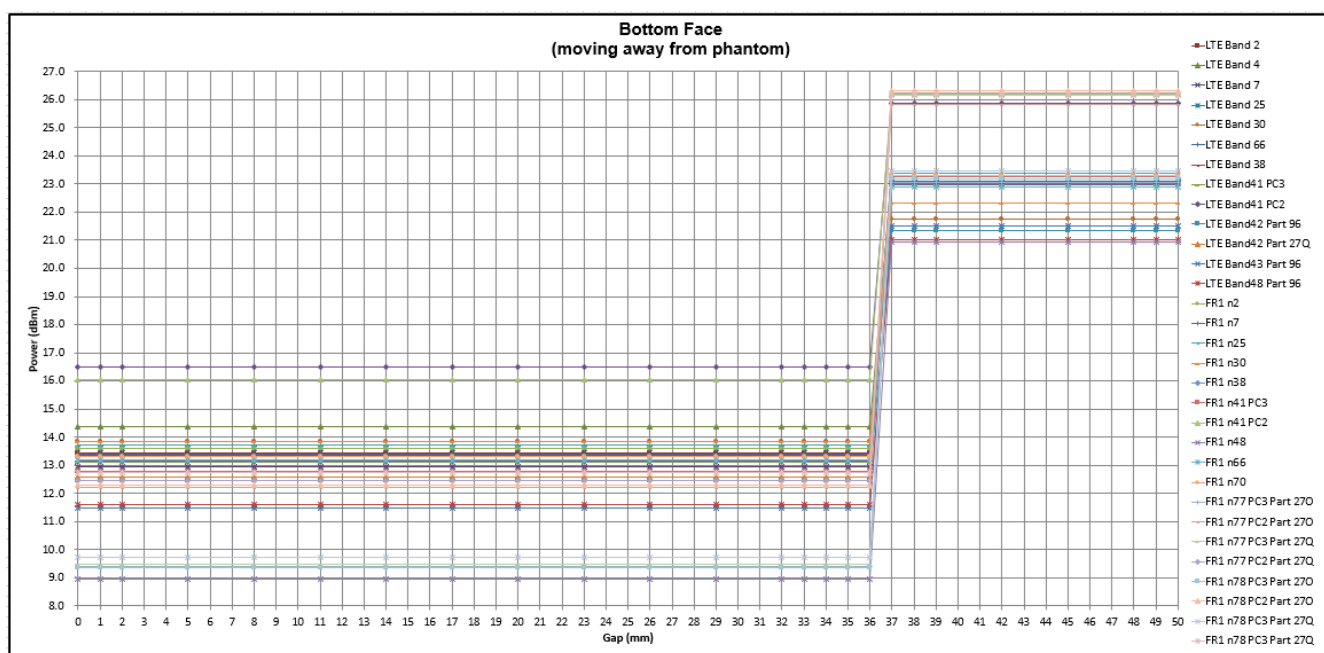
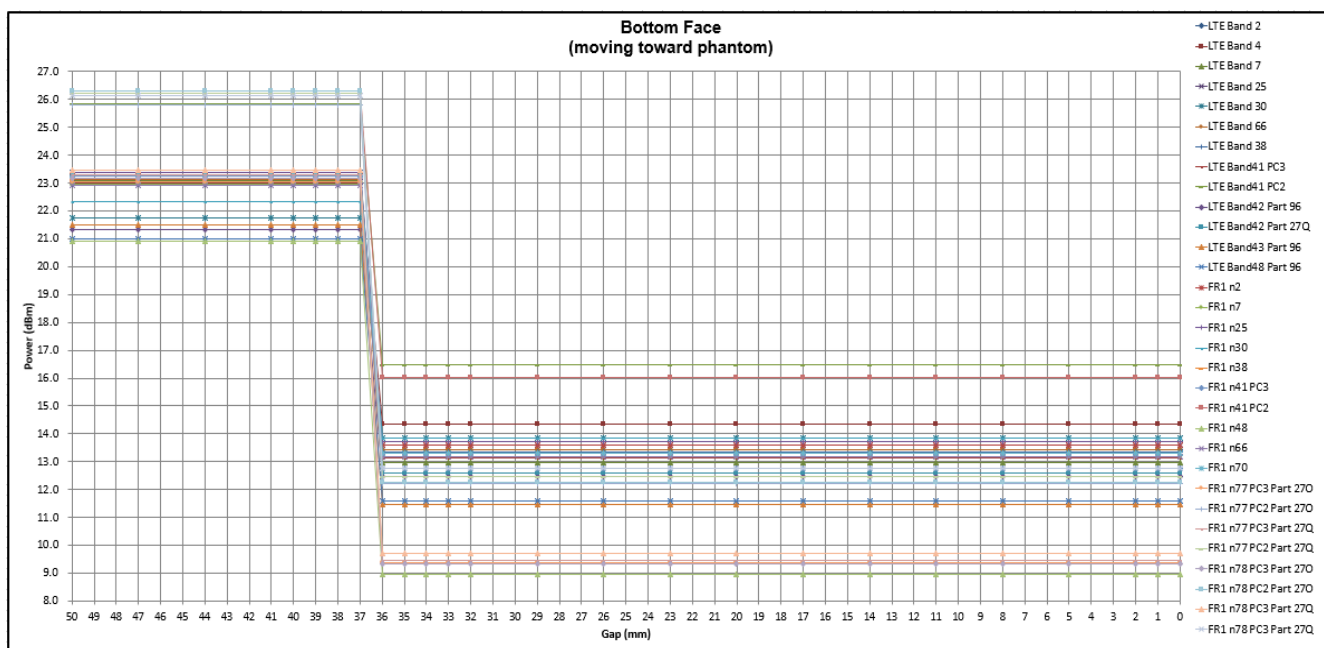
- ⁽¹⁾: Reduced maximum limit applied by activation of proximity sensor.
- Tests were performed in accordance with KDB 616217 D04 section 6.1, 6.2, 6.3, 6.4 and 6.5 and compliant results are shown as below.
- For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:
 - Main Ant 0**
 - Edge 1: [37 mm](#)
 - Edge 2: [2 mm](#)
 - MIMO2 Ant 2**
 - Bottom of Laptop: [10 mm](#)
 - Bottom Face: [35 mm](#)
 - Edge 3: [26 mm](#)

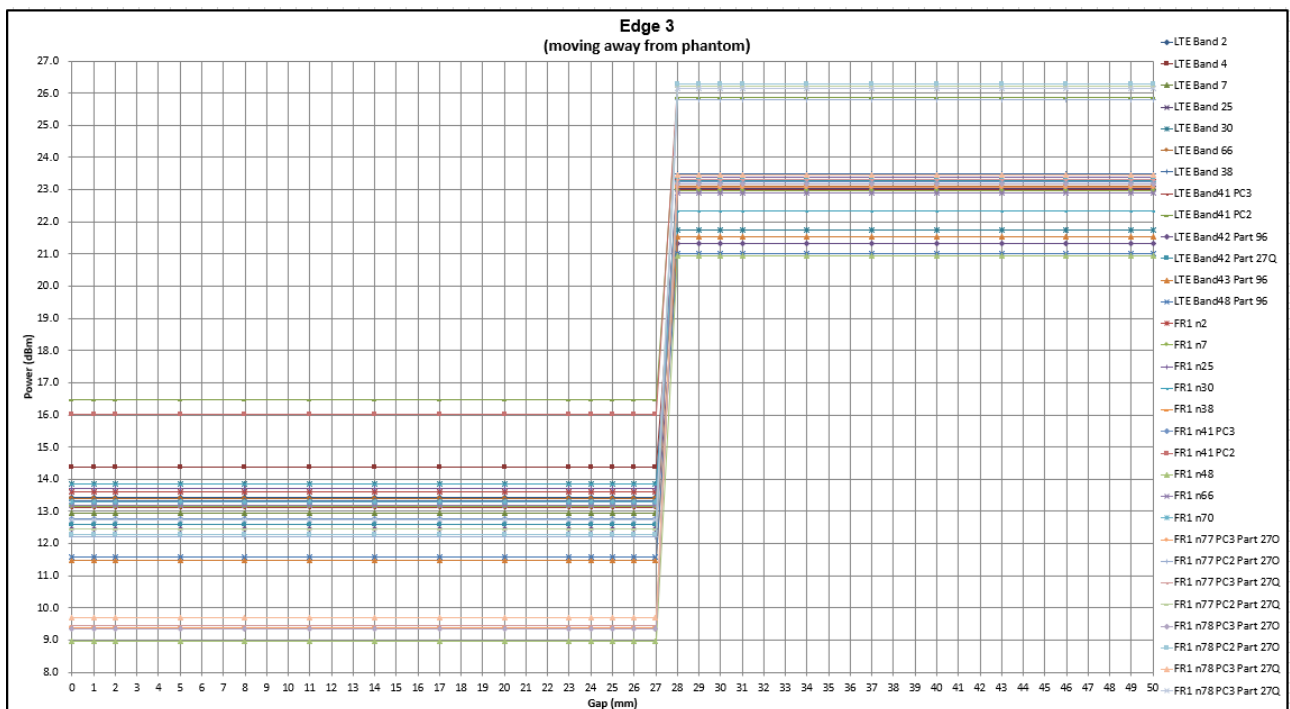
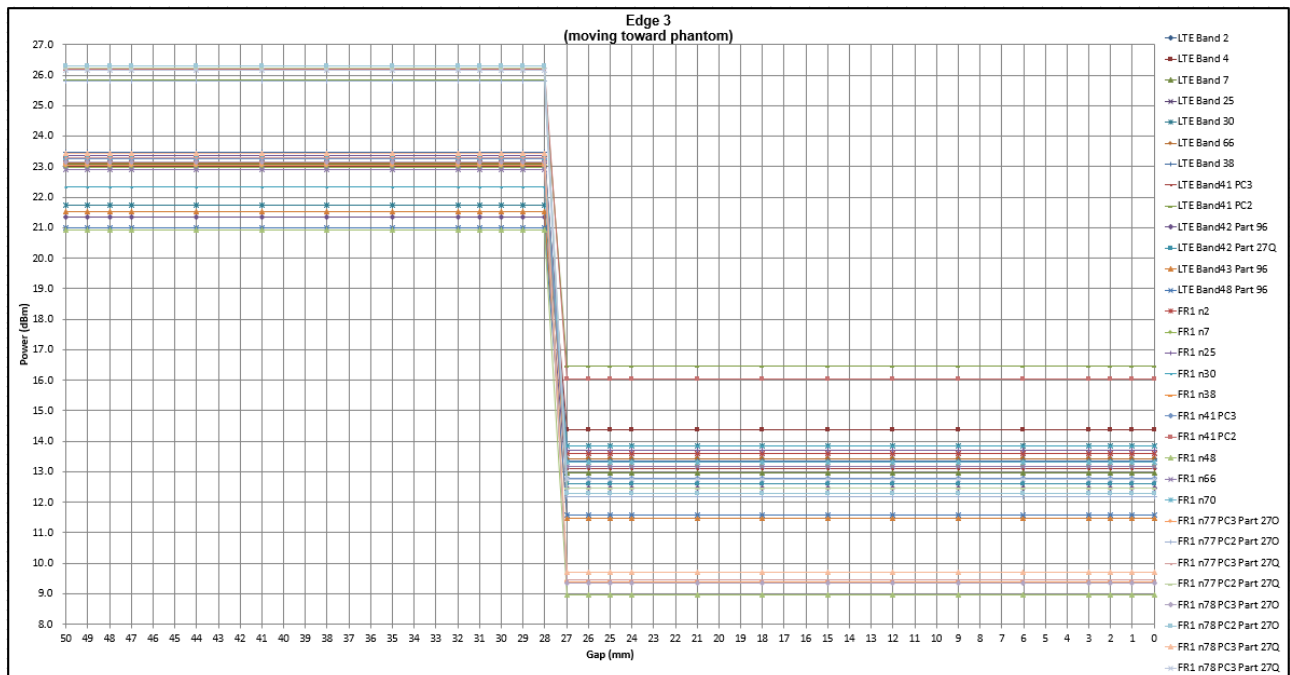
Power Measurement during Sensor Trigger distance testing
<Main Antenna 0>




<MIMO 2 Antenna2>







6. RF Exposure Limits

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

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

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

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

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

7. Specific Absorption Rate (SAR)

7.1 Introduction

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

7.2 SAR Definition

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

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

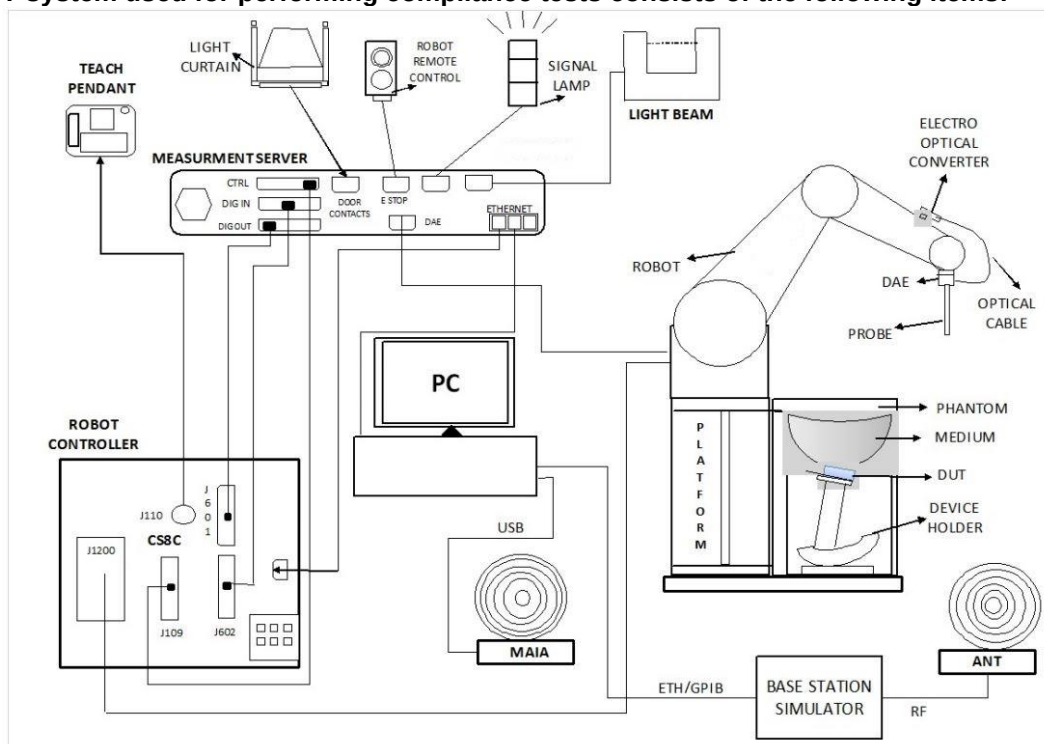
SAR is expressed in units of Watts per kilogram (W/kg)

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

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

8. System Description and Setup

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



- The DASY system in SAR Configuration is shown above
- 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 windows software and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

8.1 Test Site Location

The SAR measurement facilities used to collect data are within both Sporton Lab list below test site location are accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190 and 3786) and the FCC designation No. TW1190 and TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test.

Test Site	EMC & Wireless Communications Laboratory		Wensan Laboratory		
Test Site Location	TW1190 No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan		TW3786 No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan		
Test Site No.	SAR01-HY	SAR03-HY	SAR08-HY	SAR09-HY	SAR15-HY
	SAR04-HY	SAR05-HY	SAR11-HY	SAR12-HY	SAR16-HY
	SAR06-HY	SAR10-HY	SAR13-HY	SAR14-HY	SAR17-HY
	-	-	SAR18-HY	SAR20-HY	-

8.2 E-Field Probe

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

<ES3DV3 Probe>

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

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	4 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 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	

8.3 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.



Fig 5.1 Photo of DAE

8.4 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 in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

8.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

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

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

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

9.1 Spatial Peak SAR Evaluation

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

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

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

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values 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

9.2 Power Reference Measurement

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

9.3 Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9.4 Zoom Scan

Zoom scans are used 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.				

9.5 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.

9.6 Power Drift Monitoring

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

10. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit ⁽²⁾	D750V3	1107	Jun. 22, 2022	Jun. 20, 2024
SPEAG	835MHz System Validation Kit ⁽²⁾	D835V2	4d167	Nov. 24, 2022	Nov. 22, 2024
SPEAG	1750MHz System Validation Kit ⁽²⁾	D1750V2	1112	Jun. 22, 2022	Jun. 20, 2024
SPEAG	1900MHz System Validation Kit ⁽²⁾	D1900V2	5d185	Jun. 17, 2022	Jun. 15, 2024
SPEAG	2300MHz System Validation Kit ⁽²⁾	D2300V2	1006	Jan. 18, 2022	Jan. 16, 2024
SPEAG	2450MHz System Validation Kit ⁽²⁾	D2450V2	929	Nov. 21, 2022	Nov. 19, 2024
SPEAG	2600MHz System Validation Kit ⁽²⁾	D2600V2	1078	Jun. 23, 2022	Jun. 21, 2024
SPEAG	3500MHz System Validation Kit ⁽²⁾	D3500V2	1036	Mar. 23, 2022	Mar. 21, 2024
SPEAG	3700MHz System Validation Kit ⁽²⁾	D3700V2	1006	Jun. 20, 2022	Jun. 18, 2024
SPEAG	3900MHz System Validation Kit	D3900V2	1092	May. 15, 2023	May. 14, 2024
SPEAG	5GHz System Validation Kit ⁽²⁾	D5GHzV2	1171	Apr. 20, 2021	Apr. 17, 2024
SPEAG	Data Acquisition Electronics	DAE4	316	Jan. 23, 2023	Jan. 22, 2024
SPEAG	Data Acquisition Electronics	DAE4	656	Jan. 23, 2023	Jan. 22, 2024
SPEAG	Data Acquisition Electronics	DAE4	1707	Dec. 06, 2023	Dec. 05, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	3976	Feb. 21, 2023	Feb. 20, 2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Jan. 26, 2023	Jan. 25, 2024
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Nov. 13, 2023	Nov. 12, 2024
Keysight	5G Wireless Test Platform	E7515B	MY59321826	Apr. 26, 2023	Apr. 25, 2024
R&S	BT Base Station	CBT	101136	Oct. 22, 2023	Oct. 21, 2024
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Sep. 27, 2023	Sep. 26, 2024
Keysight	ENA Network Analyzer	E5071C	MY46104758	Oct. 30, 2023	Oct. 29, 2024
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 19, 2023	Sep. 18, 2024
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3690	Aug. 09, 2023	Aug. 08, 2024
Anritsu	Power Meter	ML2495A	1419002	Aug. 17, 2023	Aug. 16, 2024
Anritsu	Power Sensor	MA2411B	1911176	Aug. 18, 2023	Aug. 17, 2024
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jul. 10, 2023	Jul. 09, 2024
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 16, 2023	Oct. 15, 2024
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Warison	Directional Coupler	WCOU-10-50S-10	WR889BMC4B1	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General 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 source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

11. System Verification

11.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing

<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	22.4	0.899	43.300	0.89	41.90	1.01	3.34	± 5	2023/12/14
750	22.2	0.881	43.100	0.89	41.90	-1.01	2.86	± 5	2023/12/20
750	22.5	0.888	41.900	0.89	41.90	-0.22	0.00	± 5	2024/1/3
835	22.4	0.934	43.000	0.90	41.50	3.78	3.61	± 5	2023/12/14
835	22.2	0.914	42.800	0.90	41.50	1.56	3.13	± 5	2023/12/20
835	22.5	0.922	41.600	0.90	41.50	2.44	0.24	± 5	2024/1/3
1750	22.2	1.360	40.600	1.37	40.10	-0.73	1.25	± 5	2023/12/12
1750	22.5	1.370	40.600	1.37	40.10	0.00	1.25	± 5	2023/12/16
1900	22.2	1.440	39.100	1.40	40.00	2.86	-2.25	± 5	2023/12/12
1900	22.3	1.390	40.300	1.40	40.00	-0.71	0.75	± 5	2023/12/29
2300	22.4	1.650	39.200	1.67	39.50	-1.20	-0.76	± 5	2023/12/11
2300	22.3	1.640	39.800	1.67	39.50	-1.80	0.76	± 5	2023/12/23
2600	22.4	1.990	38.000	1.96	39.00	1.53	-2.56	± 5	2023/12/11
2600	22.5	1.940	38.300	1.96	39.00	-1.02	-1.79	± 5	2023/12/13
2600	22.3	1.990	38.600	1.96	39.00	1.53	-1.03	± 5	2023/12/23
2600	22.5	1.970	38.800	1.96	39.00	0.51	-0.51	± 5	2024/1/9
3500	22.5	2.930	37.500	2.91	37.90	0.69	-1.06	± 5	2023/12/15
3500	22.6	2.990	37.800	2.91	37.90	2.75	-0.26	± 5	2023/12/17
3500	22.3	2.960	38.100	2.91	37.90	1.72	0.53	± 5	2023/12/21
3500	22.4	3.010	37.800	2.91	37.90	3.44	-0.26	± 5	2023/12/22
3500	22.2	2.950	38.000	2.91	37.90	1.37	0.26	± 5	2024/1/2
3500	22.4	2.940	38.000	2.91	37.90	1.03	0.26	± 5	2024/1/4
3500	22.5	3.020	37.800	2.91	37.90	3.78	-0.26	± 5	2024/1/5
3700	22.5	3.120	37.200	3.12	37.70	0.00	-1.33	± 5	2023/12/15
3700	22.6	3.180	37.500	3.12	37.70	1.92	-0.53	± 5	2023/12/17
3700	22.3	3.140	37.800	3.12	37.70	0.64	0.27	± 5	2023/12/21
3700	22.4	3.200	37.500	3.12	37.70	2.56	-0.53	± 5	2023/12/22
3700	22.2	3.110	37.800	3.12	37.70	-0.32	0.27	± 5	2024/1/2
3700	22.4	3.100	37.800	3.12	37.70	-0.64	0.27	± 5	2024/1/4
3700	22.5	3.190	37.400	3.12	37.70	2.24	-0.80	± 5	2024/1/5
3900	22.5	3.320	36.900	3.33	37.51	-0.30	-1.63	± 5	2023/12/15
3900	22.6	3.390	37.200	3.33	37.51	1.80	-0.83	± 5	2023/12/17
3900	22.3	3.340	37.500	3.33	37.51	0.30	-0.03	± 5	2023/12/21
3900	22.4	3.410	37.300	3.33	37.51	2.40	-0.56	± 5	2023/12/22
3900	22.2	3.300	37.700	3.33	37.51	-0.90	0.51	± 5	2024/1/2

11.2 System Performance Check Results

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

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
SAR-20	2023/12/14	750	50	D750V3-1107	EX3DV4 - SN3976	DAE4 Sn656	0.397	8.540	7.94	-7.03
SAR-20	2023/12/20	750	50	D750V3-1107	EX3DV4 - SN3976	DAE4 Sn656	0.403	8.540	8.06	-5.62
SAR-20	2024/1/3	750	50	D750V3-1107	EX3DV4 - SN3976	DAE4 Sn656	0.392	8.540	7.84	-8.20
SAR-20	2023/12/14	835	50	D835V2-4d167	EX3DV4 - SN3976	DAE4 Sn656	0.466	9.800	9.32	-4.90
SAR-20	2023/12/20	835	50	D835V2-4d167	EX3DV4 - SN3976	DAE4 Sn656	0.457	9.800	9.14	-6.73
SAR-20	2024/1/3	835	50	D835V2-4d167	EX3DV4 - SN3976	DAE4 Sn656	0.445	9.800	8.9	-9.18
SAR-20	2023/12/12	1750	50	D1750V2-1112	EX3DV4 - SN3976	DAE4 Sn656	1.950	36.900	39	5.69
SAR-20	2023/12/16	1750	50	D1750V2-1112	EX3DV4 - SN3976	DAE4 Sn656	1.700	36.900	34	-7.86
SAR-20	2023/12/12	1900	50	D1900V2-5d185	EX3DV4 - SN3976	DAE4 Sn656	2.080	39.000	41.6	6.67
SAR-20	2023/12/29	1900	50	D1900V2-5d185	EX3DV4 - SN3976	DAE4 Sn656	1.770	39.000	35.4	-9.23
SAR-20	2023/12/11	2300	50	D2300V2-1006	EX3DV4 - SN3976	DAE4 Sn656	2.590	48.300	51.8	7.25
SAR-20	2023/12/23	2300	50	D2300V2-1006	EX3DV4 - SN3976	DAE4 Sn656	2.190	48.300	43.8	-9.32
SAR-20	2023/12/11	2600	50	D2600V2-1078	EX3DV4 - SN3976	DAE4 Sn656	2.630	55.400	52.6	-5.05
SAR-20	2023/12/13	2600	50	D2600V2-1078	EX3DV4 - SN3976	DAE4 Sn656	2.510	55.400	50.2	-9.39
SAR-20	2023/12/23	2600	50	D2600V2-1078	EX3DV4 - SN3976	DAE4 Sn656	2.560	55.400	51.2	-7.58
SAR-18	2024/1/9	2600	50	D2600V2-1078	EX3DV4 - SN7625	DAE4 Sn1707	2.690	55.400	53.8	-2.89
SAR-20	2023/12/15	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.190	67.400	63.8	-5.34
SAR-20	2023/12/17	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.240	67.400	64.8	-3.86
SAR-20	2023/12/21	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.200	67.400	64	-5.04
SAR-20	2023/12/22	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.260	67.400	65.2	-3.26
SAR-20	2024/1/2	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.140	67.400	62.8	-6.82
SAR-20	2024/1/4	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.140	67.400	62.8	-6.82
SAR-20	2024/1/5	3500	50	D3500V2-1036	EX3DV4 - SN3976	DAE4 Sn656	3.220	67.400	64.4	-4.45
SAR-20	2023/12/15	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.350	65.600	67	2.13
SAR-20	2023/12/17	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.200	65.600	64	-2.44
SAR-20	2023/12/21	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.110	65.600	62.2	-5.18
SAR-20	2023/12/22	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.340	65.600	66.8	1.83
SAR-20	2024/1/2	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.190	65.600	63.8	-2.74
SAR-20	2024/1/4	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.160	65.600	63.2	-3.66
SAR-20	2024/1/5	3700	50	D3700V2-1006	EX3DV4 - SN3976	DAE4 Sn656	3.270	65.600	65.4	-0.30
SAR-20	2023/12/15	3900	50	D3900V2-1092	EX3DV4 - SN3976	DAE4 Sn656	3.120	67.000	62.4	-6.87
SAR-20	2023/12/17	3900	50	D3900V2-1092	EX3DV4 - SN3976	DAE4 Sn656	3.130	67.000	62.6	-6.57
SAR-20	2023/12/21	3900	50	D3900V2-1092	EX3DV4 - SN3976	DAE4 Sn656	3.030	67.000	60.6	-9.55
SAR-20	2023/12/22	3900	50	D3900V2-1092	EX3DV4 - SN3976	DAE4 Sn656	3.130	67.000	62.6	-6.57
SAR-20	2024/1/2	3900	50	D3900V2-1092	EX3DV4 - SN3976	DAE4 Sn656	3.050	67.000	61	-8.96

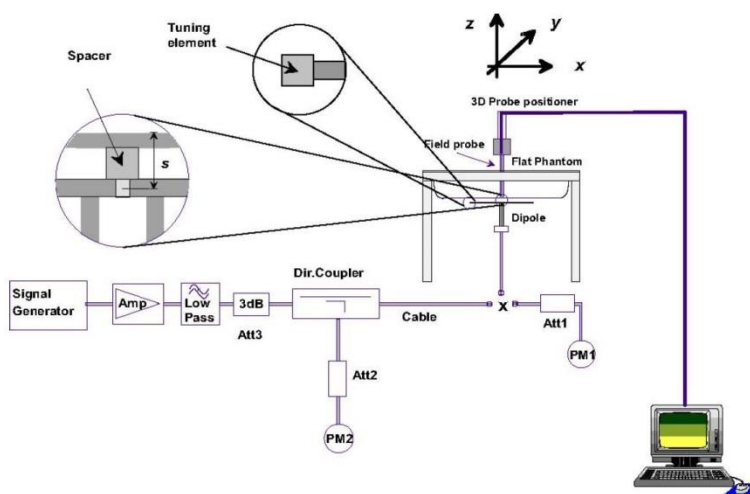


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

12. UMTS/LTE Output Power (Unit: dBm)

<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:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	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 $\beta_d/\beta_c = 12/15$, $\beta_{hs}/\beta_c = 24/15$. 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

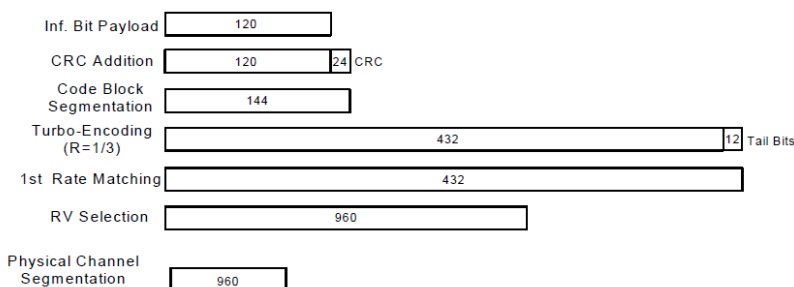
DC-HSDPA 3GPP release 8 Setup Configuration:

- 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 Cycle 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 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, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

Band		WCDMA II_Ant 0_ Sensor OFF_ Laptop Mode/Tablet Mode			Tune-up Limit (dBm)	WCDMA IV_Ant 0_ Sensor OFF_ Laptop Mode/Tablet Mode			Tune-up Limit (dBm)	WCDMA V_Ant 0_ Sensor OFF_ Laptop Mode/Tablet Mode			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Rx Channel		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
Frequency (MHz)													
3GPP Rel 99	RMC 12.2Kbps	23.80	23.55	23.51	24.50	24.12	24.21	24.15	24.50	23.78	23.74	23.65	24.50
3GPP Rel 6	HSDPA Subtest-1	23.07	22.99	22.75	23.50	22.99	23.17	23.23	23.50	22.63	22.64	22.34	23.50
3GPP Rel 6	HSDPA Subtest-2	23.00	22.92	22.60	23.50	23.08	23.06	23.28	23.50	22.69	22.26	22.49	23.50
3GPP Rel 6	HSDPA Subtest-3	22.62	22.46	22.29	23.00	22.48	22.63	22.70	23.00	22.08	21.93	22.05	23.00
3GPP Rel 6	HSDPA Subtest-4	22.58	22.48	22.28	23.00	22.53	22.50	22.72	23.00	22.05	21.96	21.96	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	23.04	22.81	22.72	23.50	23.06	23.07	23.10	23.50	22.49	22.52	22.32	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.95	22.90	22.73	23.50	22.96	23.12	23.23	23.50	22.62	22.12	22.35	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.46	22.33	22.26	23.00	22.42	22.50	22.50	23.00	21.99	21.90	21.94	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.53	22.25	22.16	23.00	22.47	22.46	22.65	23.00	21.91	21.91	21.83	23.00
3GPP Rel 6	HSUPA Subtest-1	23.07	22.98	22.80	23.50	23.00	23.12	23.12	23.50	22.65	22.62	22.53	23.50
3GPP Rel 6	HSUPA Subtest-2	20.99	20.93	20.66	21.50	21.07	21.04	21.11	21.50	20.52	20.61	20.37	21.50
3GPP Rel 6	HSUPA Subtest-3	22.04	21.85	21.80	22.50	21.91	22.19	22.24	22.50	21.55	21.66	21.41	22.50
3GPP Rel 6	HSUPA Subtest-4	20.97	20.99	20.78	21.50	20.91	21.15	21.21	21.50	20.68	20.60	20.51	21.50
3GPP Rel 6	HSUPA Subtest-5	23.11	22.82	22.80	23.50	23.01	23.13	23.14	23.50	22.55	22.52	22.59	23.50

Band		WCDMA II_Ant 0_ Sensor ON_Tablet Mode			Tune-up Limit (dBm)	WCDMA IV_Ant 0_ Sensor ON_Tablet Mode			Tune-up Limit (dBm)	WCDMA V_Ant 0_ Sensor ON_Tablet Mode			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
TX Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Rx Channel		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
Frequency (MHz)													
3GPP Rel 99	RMC 12.2Kbps	20.06	19.90	19.66	20.50	21.62	21.71	21.65	22.00	23.78	23.74	23.65	24.00
3GPP Rel 6	HSDPA Subtest-1	18.92	18.97	18.64	19.00	20.40	20.66	20.70	21.00	22.63	22.64	22.34	23.00
3GPP Rel 6	HSDPA Subtest-2	18.90	18.85	18.47	19.00	20.55	20.42	20.60	21.00	22.69	22.26	22.49	23.00
3GPP Rel 6	HSDPA Subtest-3	18.42	18.45	18.15	18.50	19.98	20.10	20.06	20.50	22.08	21.93	22.05	22.50
3GPP Rel 6	HSDPA Subtest-4	18.38	18.48	18.14	18.50	19.97	19.96	20.14	20.50	22.05	21.96	21.96	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.89	18.78	18.68	19.00	20.50	20.37	20.60	21.00	22.49	22.52	22.32	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.81	18.73	18.56	19.00	20.41	20.59	20.63	21.00	22.62	22.12	22.35	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.27	18.27	18.11	18.50	19.78	19.99	19.91	20.50	21.99	21.90	21.94	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.44	18.07	18.14	18.50	19.83	19.86	20.05	20.50	21.91	21.91	21.83	22.50
3GPP Rel 6	HSUPA Subtest-1	18.91	18.79	18.63	19.00	20.36	20.42	20.44	21.00	22.65	22.62	22.53	23.00
3GPP Rel 6	HSUPA Subtest-2	16.94	16.88	16.54	17.00	18.39	18.47	18.60	19.00	20.52	20.61	20.37	21.00
3GPP Rel 6	HSUPA Subtest-3	17.88	17.68	17.74	18.00	19.23	19.53	19.62	20.00	21.55	21.66	21.41	22.00
3GPP Rel 6	HSUPA Subtest-4	16.88	16.96	16.77	17.00	18.34	18.59	18.62	19.00	20.68	20.60	20.51	21.00
3GPP Rel 6	HSUPA Subtest-5	18.95	18.76	18.66	19.00	20.32	20.63	20.61	21.00	22.55	22.52	22.59	23.00

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

1. A 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 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 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/B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; 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



<LTE Band 2_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.11	23.10	22.91	24
20	QPSK	1	49	23.03	23.05	22.80	
20	QPSK	1	99	22.81	22.83	22.84	
20	QPSK	50	0	22.24	22.18	22.03	23
20	QPSK	50	24	22.20	21.91	21.99	
20	QPSK	50	50	22.17	22.05	21.92	
20	QPSK	100	0	22.17	21.97	21.95	
20	16QAM	1	0	22.55	22.52	22.01	23
20	16QAM	1	49	22.39	22.26	22.06	
20	16QAM	1	99	22.15	22.43	21.96	
20	16QAM	50	0	21.14	20.98	20.85	22
20	16QAM	50	24	21.18	20.94	21.01	
20	16QAM	50	50	21.16	21.21	20.92	
20	16QAM	100	0	21.24	21.04	21.00	
20	64QAM	1	0	21.18	21.29	20.93	22
20	64QAM	1	49	21.53	21.04	20.66	
20	64QAM	1	99	21.18	21.25	20.78	
20	64QAM	50	0	20.03	19.83	19.93	21
20	64QAM	50	24	20.13	20.12	19.98	
20	64QAM	50	50	20.11	20.10	19.93	
20	64QAM	100	0	20.11	20.03	20.00	
20	256QAM	1	0	18.28	18.21	18.12	19
20	256QAM	1	49	18.41	18.22	18.32	
20	256QAM	1	99	18.29	18.34	18.28	
20	256QAM	50	0	18.19	18.04	17.94	19
20	256QAM	50	24	18.25	18.12	18.09	
20	256QAM	50	50	18.35	18.17	18.07	
20	256QAM	100	0	18.23	18.27	18.19	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.09	23.01	22.83	24
15	QPSK	1	37	23.01	23.00	22.91	
15	QPSK	1	74	22.89	22.86	22.87	
15	QPSK	36	0	22.27	22.03	22.01	23
15	QPSK	36	20	22.27	21.93	21.97	
15	QPSK	36	39	22.05	22.15	21.99	
15	QPSK	75	0	22.18	22.02	22.03	
15	16QAM	1	0	22.64	22.53	21.92	23
15	16QAM	1	37	22.44	22.16	21.89	
15	16QAM	1	74	22.22	22.26	21.87	
15	16QAM	36	0	21.00	21.15	21.03	22
15	16QAM	36	20	21.22	20.98	20.94	
15	16QAM	36	39	21.16	21.13	20.89	
15	16QAM	75	0	21.23	20.93	20.96	
15	64QAM	1	0	21.15	21.14	20.98	22
15	64QAM	1	37	21.49	21.03	20.80	
15	64QAM	1	74	20.99	21.30	20.75	
15	64QAM	36	0	20.00	19.83	19.93	21
15	64QAM	36	20	20.22	19.95	20.04	
15	64QAM	36	39	20.24	20.20	19.94	
15	64QAM	75	0	20.22	20.05	19.88	
15	256QAM	1	0	18.30	18.16	18.12	19
15	256QAM	1	37	18.40	18.20	18.15	
15	256QAM	1	74	18.40	18.23	18.28	
15	256QAM	36	0	18.08	18.13	17.90	19
15	256QAM	36	20	18.29	18.25	18.05	



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15	256QAM	36	39	18.21	18.19	18.04	
15	256QAM	75	0	18.26	18.18	18.08	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.96	22.95	22.75	24
10	QPSK	1	25	22.94	23.04	22.91	
10	QPSK	1	49	22.84	22.87	22.86	
10	QPSK	25	0	22.26	22.10	22.02	23
10	QPSK	25	12	22.13	22.07	22.07	
10	QPSK	25	25	22.19	21.98	21.98	
10	QPSK	50	0	22.10	21.93	22.03	
10	16QAM	1	0	22.66	22.44	22.08	23
10	16QAM	1	25	22.39	22.11	21.84	
10	16QAM	1	49	22.23	22.31	21.93	
10	16QAM	25	0	21.02	21.16	20.95	22
10	16QAM	25	12	21.15	21.07	21.04	
10	16QAM	25	25	21.20	21.19	20.87	
10	16QAM	50	0	21.07	20.92	20.89	
10	64QAM	1	0	21.10	21.28	20.96	22
10	64QAM	1	25	21.34	20.97	20.66	
10	64QAM	1	49	21.07	21.29	20.71	
10	64QAM	25	0	19.99	19.83	19.97	21
10	64QAM	25	12	20.23	20.11	19.97	
10	64QAM	25	25	20.18	20.07	19.96	
10	64QAM	50	0	20.21	20.14	19.96	
10	256QAM	1	0	18.29	18.28	18.19	19
10	256QAM	1	25	18.37	18.22	18.15	
10	256QAM	1	49	18.28	18.21	18.14	
10	256QAM	25	0	18.08	18.06	17.92	19
10	256QAM	25	12	18.31	18.30	18.01	
10	256QAM	25	25	18.16	18.27	18.03	
10	256QAM	50	0	18.22	18.21	18.22	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.99	22.91	22.80	24
5	QPSK	1	12	23.04	23.00	22.73	
5	QPSK	1	24	22.89	22.77	22.87	
5	QPSK	12	0	22.10	22.09	21.94	23
5	QPSK	12	7	22.08	21.97	22.06	
5	QPSK	12	13	22.23	21.97	21.99	
5	QPSK	25	0	22.10	21.97	21.94	
5	16QAM	1	0	22.67	22.51	21.98	23
5	16QAM	1	12	22.39	22.14	21.76	
5	16QAM	1	24	22.15	22.28	21.88	
5	16QAM	12	0	21.05	21.14	21.01	22
5	16QAM	12	7	21.26	20.92	20.98	
5	16QAM	12	13	21.22	21.05	20.92	
5	16QAM	25	0	21.16	20.92	20.96	
5	64QAM	1	0	21.16	21.13	20.92	22
5	64QAM	1	12	21.37	20.91	20.81	
5	64QAM	1	24	20.98	21.20	20.80	
5	64QAM	12	0	20.14	19.83	19.85	21
5	64QAM	12	7	20.13	20.04	20.08	
5	64QAM	12	13	20.14	20.14	20.01	
5	64QAM	25	0	20.24	19.98	19.87	
5	256QAM	1	0	18.18	18.16	18.13	19
5	256QAM	1	12	18.38	18.31	18.26	
5	256QAM	1	24	18.41	18.39	18.17	
5	256QAM	12	0	18.11	18.12	17.90	19
5	256QAM	12	7	18.22	18.31	18.02	
5	256QAM	12	13	18.26	18.22	18.14	
5	256QAM	25	0	18.24	18.17	18.23	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.93	23.09	22.71	24
3	QPSK	1	8	23.00	23.07	22.88	
3	QPSK	1	14	22.87	22.84	22.87	
3	QPSK	8	0	22.20	22.16	22.08	23
3	QPSK	8	4	22.18	22.09	22.05	
3	QPSK	8	7	22.12	22.07	21.88	
3	QPSK	15	0	22.19	21.97	21.86	
3	16QAM	1	0	22.50	22.46	21.90	23
3	16QAM	1	8	22.43	22.18	21.95	
3	16QAM	1	14	22.13	22.24	21.91	
3	16QAM	8	0	21.07	20.97	20.92	22
3	16QAM	8	4	21.15	20.98	21.02	
3	16QAM	8	7	21.16	21.07	20.98	
3	16QAM	15	0	21.18	21.00	20.95	
3	64QAM	1	0	21.03	21.11	21.00	22
3	64QAM	1	8	21.36	21.03	20.81	
3	64QAM	1	14	21.05	21.28	20.70	
3	64QAM	8	0	20.15	19.91	19.98	21
3	64QAM	8	4	20.11	19.96	20.07	
3	64QAM	8	7	20.17	20.13	19.96	
3	64QAM	15	0	20.15	20.16	19.86	
3	256QAM	1	0	18.34	18.27	18.14	19
3	256QAM	1	8	18.34	18.26	18.27	
3	256QAM	1	14	18.30	18.22	18.19	
3	256QAM	8	0	18.12	18.14	18.08	19
3	256QAM	8	4	18.36	18.29	18.04	
3	256QAM	8	7	18.31	18.15	18.04	
3	256QAM	15	0	18.26	18.27	18.19	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.96	23.07	22.79	24
1.4	QPSK	1	3	23.04	23.06	22.84	
1.4	QPSK	1	5	22.98	22.87	22.93	
1.4	QPSK	3	0	23.04	23.07	22.82	
1.4	QPSK	3	1	22.84	22.97	22.89	
1.4	QPSK	3	3	23.03	23.09	22.81	
1.4	QPSK	6	0	22.28	22.12	22.02	23
1.4	16QAM	1	0	22.22	22.09	22.00	23
1.4	16QAM	1	3	22.11	22.06	21.93	
1.4	16QAM	1	5	22.09	21.90	22.04	
1.4	16QAM	3	0	22.68	22.55	21.91	
1.4	16QAM	3	1	22.49	22.19	21.92	
1.4	16QAM	3	3	22.25	22.39	21.95	22
1.4	16QAM	6	0	21.01	20.98	20.92	
1.4	64QAM	1	0	21.11	21.09	21.04	22
1.4	64QAM	1	3	21.31	21.05	20.99	
1.4	64QAM	1	5	21.16	21.05	20.94	
1.4	64QAM	3	0	21.05	21.23	20.82	
1.4	64QAM	3	1	21.44	21.05	20.68	
1.4	64QAM	3	3	21.08	21.22	20.81	
1.4	64QAM	6	0	20.17	19.98	19.86	21
1.4	256QAM	1	0	18.27	18.28	18.15	19
1.4	256QAM	1	3	18.44	18.32	18.33	
1.4	256QAM	1	5	18.28	18.38	18.32	
1.4	256QAM	3	0	18.13	18.04	18.10	
1.4	256QAM	3	1	18.33	18.19	18.07	
1.4	256QAM	3	3	18.22	18.32	18.21	
1.4	256QAM	6	0	18.27	18.18	18.13	19



<LTE Band 2_Ant 0_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.03	19.87	19.84	
20	QPSK	1	49	19.70	19.71	19.69	21
20	QPSK	1	99	19.64	19.49	19.73	
20	QPSK	50	0	18.82	18.72	18.82	
20	QPSK	50	24	18.85	18.79	18.78	20
20	QPSK	50	50	18.79	18.74	18.87	
20	QPSK	100	0	18.87	18.67	18.79	
20	16QAM	1	0	19.32	18.81	19.01	20
20	16QAM	1	49	19.03	18.89	18.91	
20	16QAM	1	99	18.78	19.25	19.34	
20	16QAM	50	0	17.88	17.80	17.79	19
20	16QAM	50	24	17.88	17.71	17.86	
20	16QAM	50	50	17.79	17.81	17.87	
20	16QAM	100	0	17.84	17.73	17.87	19
20	64QAM	1	0	17.98	17.89	18.03	
20	64QAM	1	49	17.69	17.90	17.98	
20	64QAM	1	99	17.77	17.75	17.73	18
20	64QAM	50	0	16.79	16.68	16.81	
20	64QAM	50	24	16.76	16.68	16.70	
20	64QAM	50	50	16.88	16.90	16.82	16
20	64QAM	100	0	16.79	16.81	16.77	
20	256QAM	1	0	15.09	15.00	15.04	
20	256QAM	1	49	15.15	15.09	15.02	16
20	256QAM	1	99	15.02	15.17	15.19	
20	256QAM	50	0	15.09	15.14	15.01	
20	256QAM	50	24	15.15	15.14	15.01	16
20	256QAM	50	50	15.07	15.18	15.01	
20	256QAM	100	0	15.09	15.19	15.03	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.78	19.68	19.72	
15	QPSK	1	37	19.80	19.74	19.74	21
15	QPSK	1	74	19.78	19.62	19.68	
15	QPSK	36	0	18.80	18.73	18.78	20
15	QPSK	36	20	18.85	18.72	18.83	
15	QPSK	36	39	18.83	18.79	18.80	
15	QPSK	75	0	18.85	18.71	18.82	20
15	16QAM	1	0	19.09	19.01	19.06	
15	16QAM	1	37	19.14	19.09	19.05	
15	16QAM	1	74	19.07	18.92	19.02	19
15	16QAM	36	0	17.84	17.75	17.77	
15	16QAM	36	20	17.88	17.72	17.85	
15	16QAM	36	39	17.85	17.79	17.80	19
15	16QAM	75	0	17.87	17.72	17.84	
15	64QAM	1	0	17.99	17.90	17.90	
15	64QAM	1	37	18.00	17.95	17.98	19
15	64QAM	1	74	17.98	17.91	17.88	
15	64QAM	36	0	16.79	16.74	16.75	
15	64QAM	36	20	16.86	16.73	16.82	18
15	64QAM	36	39	16.85	16.77	16.79	
15	64QAM	75	0	16.85	16.73	16.81	
15	256QAM	1	0	15.00	15.05	15.03	16
15	256QAM	1	37	15.04	15.09	15.15	
15	256QAM	1	74	15.05	15.18	15.06	
15	256QAM	36	0	15.07	15.20	15.01	16
15	256QAM	36	20	15.08	15.03	15.10	



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15	256QAM	36	39	15.10	15.15	15.11	
15	256QAM	75	0	15.15	15.04	15.14	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.89	19.82	19.87	21
10	QPSK	1	25	19.96	19.89	19.92	
10	QPSK	1	49	19.89	19.82	19.87	
10	QPSK	25	0	18.99	18.85	18.95	20
10	QPSK	25	12	19.00	18.86	18.96	
10	QPSK	25	25	18.96	18.91	18.92	
10	QPSK	50	0	18.97	18.85	18.93	
10	16QAM	1	0	19.27	19.20	19.29	20
10	16QAM	1	25	19.27	19.22	19.28	
10	16QAM	1	49	19.25	19.18	19.24	
10	16QAM	25	0	17.97	17.85	17.96	19
10	16QAM	25	12	18.02	17.88	17.96	
10	16QAM	25	25	17.97	17.91	17.94	
10	16QAM	50	0	17.98	17.86	17.93	
10	64QAM	1	0	18.15	18.10	18.14	19
10	64QAM	1	25	18.18	18.15	18.14	
10	64QAM	1	49	18.06	18.03	18.04	
10	64QAM	25	0	16.98	16.82	16.92	18
10	64QAM	25	12	17.01	16.88	16.95	
10	64QAM	25	25	16.95	16.90	16.91	
10	64QAM	50	0	16.96	16.83	16.92	
10	256QAM	1	0	15.01	15.11	15.16	16
10	256QAM	1	25	15.09	15.01	15.07	
10	256QAM	1	49	15.15	15.10	15.20	
10	256QAM	25	0	15.10	15.14	15.16	16
10	256QAM	25	12	15.08	15.04	15.09	
10	256QAM	25	25	15.02	15.04	15.11	
10	256QAM	50	0	15.19	15.07	15.19	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.90	19.84	19.81	21
5	QPSK	1	12	19.96	19.90	19.89	
5	QPSK	1	24	19.87	19.83	19.85	
5	QPSK	12	0	18.94	18.80	18.82	20
5	QPSK	12	7	19.00	18.90	18.97	
5	QPSK	12	13	18.95	18.89	18.90	
5	QPSK	25	0	18.94	18.81	18.83	
5	16QAM	1	0	19.27	19.17	19.13	20
5	16QAM	1	12	19.33	19.27	19.28	
5	16QAM	1	24	19.24	19.09	19.15	
5	16QAM	12	0	17.98	17.85	17.85	19
5	16QAM	12	7	18.04	17.99	17.97	
5	16QAM	12	13	17.99	17.91	17.96	
5	16QAM	25	0	17.97	17.83	17.82	
5	64QAM	1	0	18.10	18.03	18.05	19
5	64QAM	1	12	18.18	18.13	18.12	
5	64QAM	1	24	18.08	18.02	18.07	
5	64QAM	12	0	16.98	16.84	16.86	18
5	64QAM	12	7	17.01	16.95	16.96	
5	64QAM	12	13	16.98	16.89	16.96	
5	64QAM	25	0	16.96	16.81	16.82	
5	256QAM	1	0	15.20	15.15	15.08	16
5	256QAM	1	12	15.15	15.17	15.14	
5	256QAM	1	24	15.11	15.16	15.02	
5	256QAM	12	0	15.06	15.14	15.20	16
5	256QAM	12	7	15.02	15.17	15.16	
5	256QAM	12	13	15.06	15.00	15.00	
5	256QAM	25	0	15.14	15.06	15.17	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.89	19.82	19.73	21
3	QPSK	1	8	19.88	19.84	19.82	
3	QPSK	1	14	19.79	19.75	19.80	
3	QPSK	8	0	18.87	18.70	18.80	20
3	QPSK	8	4	18.93	18.82	18.95	
3	QPSK	8	7	18.92	18.88	18.82	
3	QPSK	15	0	18.84	18.81	18.80	
3	16QAM	1	0	19.18	19.08	19.11	20
3	16QAM	1	8	19.23	19.19	19.20	
3	16QAM	1	14	19.22	19.06	19.15	
3	16QAM	8	0	17.92	17.85	17.81	19
3	16QAM	8	4	18.02	17.99	17.96	
3	16QAM	8	7	17.93	17.90	17.91	
3	16QAM	15	0	17.97	17.78	17.80	
3	64QAM	1	0	18.08	18.00	18.01	19
3	64QAM	1	8	18.15	18.03	18.05	
3	64QAM	1	14	18.03	17.94	18.07	
3	64QAM	8	0	16.90	16.75	16.86	18
3	64QAM	8	4	16.93	16.87	16.87	
3	64QAM	8	7	16.91	16.86	16.88	
3	64QAM	15	0	16.88	16.74	16.73	
3	256QAM	1	0	15.17	15.07	15.19	16
3	256QAM	1	8	15.16	15.03	15.01	
3	256QAM	1	14	15.07	15.01	15.11	
3	256QAM	8	0	15.01	15.04	15.08	16
3	256QAM	8	4	15.12	15.03	15.09	
3	256QAM	8	7	15.01	15.14	15.08	
3	256QAM	15	0	15.08	15.14	15.19	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.91	19.81	19.83	21
1.4	QPSK	1	3	19.94	19.88	19.87	
1.4	QPSK	1	5	19.89	19.84	19.84	
1.4	QPSK	3	0	19.93	19.87	19.85	
1.4	QPSK	3	1	19.94	19.88	19.87	
1.4	QPSK	3	3	19.94	19.86	19.87	
1.4	QPSK	6	0	18.93	18.87	18.86	20
1.4	16QAM	1	0	19.27	19.18	19.20	20
1.4	16QAM	1	3	19.34	19.25	19.25	
1.4	16QAM	1	5	19.23	19.20	19.20	
1.4	16QAM	3	0	19.08	19.01	18.99	
1.4	16QAM	3	1	19.10	19.02	19.03	
1.4	16QAM	3	3	19.08	19.03	19.03	19
1.4	16QAM	6	0	18.02	17.92	17.93	
1.4	64QAM	1	0	18.12	18.04	17.98	
1.4	64QAM	1	3	18.18	18.06	18.06	
1.4	64QAM	1	5	18.08	18.05	18.03	19
1.4	64QAM	3	0	18.06	17.99	17.98	
1.4	64QAM	3	1	18.05	17.96	18.02	
1.4	64QAM	3	3	18.05	18.01	18.00	
1.4	64QAM	6	0	16.95	16.89	16.91	18
1.4	256QAM	1	0	15.13	15.05	15.15	16
1.4	256QAM	1	3	15.16	15.08	15.11	
1.4	256QAM	1	5	15.10	15.05	15.08	
1.4	256QAM	3	0	15.20	15.13	15.15	
1.4	256QAM	3	1	15.03	15.01	15.05	
1.4	256QAM	3	3	15.03	15.00	15.02	16
1.4	256QAM	6	0	15.10	15.19	15.19	



<LTE Band 2_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.79	22.94	22.98	
20	QPSK	1	49	22.59	22.83	22.89	24
20	QPSK	1	99	22.56	22.90	22.82	
20	QPSK	50	0	21.72	22.03	22.12	
20	QPSK	50	24	21.75	22.07	21.98	23
20	QPSK	50	50	21.80	22.14	22.07	
20	QPSK	100	0	21.72	22.05	21.97	
20	16QAM	1	0	21.59	21.88	21.80	23
20	16QAM	1	49	21.69	21.95	21.89	
20	16QAM	1	99	21.63	21.97	21.91	
20	16QAM	50	0	20.80	21.08	21.04	22
20	16QAM	50	24	20.76	21.02	20.91	
20	16QAM	50	50	20.82	21.10	21.00	
20	16QAM	100	0	20.67	21.02	21.18	22
20	64QAM	1	0	20.59	20.94	20.89	
20	64QAM	1	49	20.73	21.01	20.91	
20	64QAM	1	99	20.73	21.03	20.95	21
20	64QAM	50	0	19.70	20.00	19.89	
20	64QAM	50	24	19.71	20.01	19.89	
20	64QAM	50	50	19.82	20.11	20.06	19
20	64QAM	100	0	19.76	20.04	19.93	
20	256QAM	1	0	17.87	18.13	18.07	
20	256QAM	1	49	17.95	18.20	18.12	19
20	256QAM	1	99	17.96	18.23	18.19	
20	256QAM	50	0	17.70	18.01	17.98	
20	256QAM	50	24	17.77	18.06	18.03	19
20	256QAM	50	50	17.80	18.13	18.01	
20	256QAM	100	0	17.75	18.03	18.10	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.75	22.94	22.97	
15	QPSK	1	37	22.52	22.78	22.84	24
15	QPSK	1	74	22.47	22.86	22.79	
15	QPSK	36	0	21.66	21.95	22.08	23
15	QPSK	36	20	21.72	22.04	21.91	
15	QPSK	36	39	21.72	22.14	21.97	
15	QPSK	75	0	21.66	21.97	21.87	23
15	16QAM	1	0	21.54	21.85	21.80	
15	16QAM	1	37	21.62	21.92	21.84	
15	16QAM	1	74	21.63	21.97	21.90	22
15	16QAM	36	0	20.76	21.00	20.99	
15	16QAM	36	20	20.66	20.93	20.84	
15	16QAM	36	39	20.81	21.04	21.00	22
15	16QAM	75	0	20.66	20.96	21.12	
15	64QAM	1	0	20.56	20.92	20.79	
15	64QAM	1	37	20.68	20.92	20.84	21
15	64QAM	1	74	20.67	21.02	20.86	
15	64QAM	36	0	19.70	19.97	19.83	
15	64QAM	36	20	19.71	19.98	19.79	19
15	64QAM	36	39	19.78	20.06	20.06	
15	64QAM	75	0	19.67	20.00	19.90	
15	256QAM	1	0	17.77	18.13	17.97	19
15	256QAM	1	37	17.95	18.11	18.03	
15	256QAM	1	74	17.90	18.19	18.14	
15	256QAM	36	0	17.64	17.96	17.97	19
15	256QAM	36	20	17.68	18.05	18.01	



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15	256QAM	36	39	17.79	18.07	17.94	
15	256QAM	75	0	17.74	18.02	18.02	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.71	22.93	22.95	24
10	QPSK	1	25	22.54	22.73	22.85	
10	QPSK	1	49	22.54	22.82	22.79	
10	QPSK	25	0	21.62	21.94	22.07	23
10	QPSK	25	12	21.75	22.01	21.95	
10	QPSK	25	25	21.72	22.05	22.04	
10	QPSK	50	0	21.65	21.96	21.91	
10	16QAM	1	0	21.51	21.81	21.72	23
10	16QAM	1	25	21.61	21.85	21.83	
10	16QAM	1	49	21.63	21.93	21.91	
10	16QAM	25	0	20.78	21.07	20.95	22
10	16QAM	25	12	20.75	20.94	20.90	
10	16QAM	25	25	20.76	21.07	21.00	
10	16QAM	50	0	20.67	20.99	21.16	
10	64QAM	1	0	20.49	20.88	20.87	22
10	64QAM	1	25	20.65	20.95	20.83	
10	64QAM	1	49	20.71	21.01	20.90	
10	64QAM	25	0	19.62	19.90	19.88	21
10	64QAM	25	12	19.69	19.94	19.87	
10	64QAM	25	25	19.78	20.10	19.98	
10	64QAM	50	0	19.69	20.02	19.88	
10	256QAM	1	0	17.84	18.04	18.01	19
10	256QAM	1	25	17.88	18.19	18.09	
10	256QAM	1	49	17.90	18.20	18.11	
10	256QAM	25	0	17.68	18.00	17.89	19
10	256QAM	25	12	17.68	18.06	17.94	
10	256QAM	25	25	17.79	18.12	18.01	
10	256QAM	50	0	17.72	18.01	18.09	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.74	22.88	22.88	24
5	QPSK	1	12	22.55	22.81	22.80	
5	QPSK	1	24	22.46	22.86	22.76	
5	QPSK	12	0	21.67	22.03	22.10	23
5	QPSK	12	7	21.66	21.98	21.89	
5	QPSK	12	13	21.77	22.10	22.05	
5	QPSK	25	0	21.69	22.02	21.90	
5	16QAM	1	0	21.54	21.82	21.80	23
5	16QAM	1	12	21.59	21.94	21.81	
5	16QAM	1	24	21.53	21.89	21.91	
5	16QAM	12	0	20.74	21.03	21.02	22
5	16QAM	12	7	20.67	21.01	20.89	
5	16QAM	12	13	20.72	21.05	21.00	
5	16QAM	25	0	20.59	20.93	21.08	
5	64QAM	1	0	20.52	20.91	20.88	22
5	64QAM	1	12	20.65	20.93	20.83	
5	64QAM	1	24	20.69	21.00	20.86	
5	64QAM	12	0	19.66	19.98	19.88	21
5	64QAM	12	7	19.69	20.00	19.86	
5	64QAM	12	13	19.79	20.07	20.01	
5	64QAM	25	0	19.67	20.03	19.87	
5	256QAM	1	0	17.87	18.07	17.97	19
5	256QAM	1	12	17.89	18.15	18.08	
5	256QAM	1	24	17.94	18.16	18.16	
5	256QAM	12	0	17.63	17.96	17.93	19
5	256QAM	12	7	17.74	18.04	17.94	
5	256QAM	12	13	17.71	18.09	17.92	
5	256QAM	25	0	17.69	17.94	18.10	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.71	22.93	22.93	24
3	QPSK	1	8	22.54	22.79	22.82	
3	QPSK	1	14	22.52	22.81	22.78	
3	QPSK	8	0	21.68	22.02	22.05	23
3	QPSK	8	4	21.69	21.99	21.91	
3	QPSK	8	7	21.75	22.12	22.07	
3	QPSK	15	0	21.62	21.95	21.95	23
3	16QAM	1	0	21.54	21.81	21.79	
3	16QAM	1	8	21.66	21.89	21.82	
3	16QAM	1	14	21.60	21.95	21.84	22
3	16QAM	8	0	20.79	21.01	20.99	
3	16QAM	8	4	20.70	20.97	20.81	
3	16QAM	8	7	20.73	21.00	20.94	22
3	16QAM	15	0	20.66	21.00	21.18	
3	64QAM	1	0	20.51	20.85	20.83	
3	64QAM	1	8	20.64	20.98	20.84	21
3	64QAM	1	14	20.72	20.99	20.90	
3	64QAM	8	0	19.69	19.99	19.85	
3	64QAM	8	4	19.71	19.92	19.83	19
3	64QAM	8	7	19.77	20.03	20.01	
3	64QAM	15	0	19.75	20.01	19.83	
3	256QAM	1	0	17.80	18.10	18.05	19
3	256QAM	1	8	17.87	18.10	18.10	
3	256QAM	1	14	17.89	18.19	18.12	
3	256QAM	8	0	17.60	17.97	17.95	19
3	256QAM	8	4	17.71	17.99	18.02	
3	256QAM	8	7	17.80	18.09	17.91	
3	256QAM	15	0	17.70	18.03	18.03	19
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.76	22.94	22.93	
1.4	QPSK	1	3	22.54	22.74	22.82	24
1.4	QPSK	1	5	22.46	22.87	22.80	
1.4	QPSK	3	0	22.78	22.90	22.95	
1.4	QPSK	3	1	22.53	22.75	22.79	23
1.4	QPSK	3	3	22.52	22.81	22.82	
1.4	QPSK	6	0	21.70	22.02	22.08	
1.4	16QAM	1	0	21.74	21.98	21.92	22
1.4	16QAM	1	3	21.76	22.10	21.99	
1.4	16QAM	1	5	21.64	21.96	21.96	
1.4	16QAM	3	0	21.50	21.84	21.80	22
1.4	16QAM	3	1	21.65	21.94	21.84	
1.4	16QAM	3	3	21.60	21.96	21.89	
1.4	16QAM	6	0	20.80	21.07	20.95	22
1.4	64QAM	1	0	20.71	20.95	20.84	
1.4	64QAM	1	3	20.74	21.06	20.93	
1.4	64QAM	1	5	20.67	20.93	21.08	21
1.4	64QAM	3	0	20.54	20.89	20.87	
1.4	64QAM	3	1	20.70	20.95	20.89	
1.4	64QAM	3	3	20.68	21.03	20.88	19
1.4	64QAM	6	0	19.65	19.96	19.81	
1.4	256QAM	1	0	17.64	18.01	17.97	
1.4	256QAM	1	3	17.67	17.99	18.02	19
1.4	256QAM	1	5	17.78	18.08	17.99	
1.4	256QAM	3	0	17.66	17.99	17.94	
1.4	256QAM	3	1	17.77	18.03	17.93	19
1.4	256QAM	3	3	17.80	18.03	17.97	
1.4	256QAM	6	0	17.73	17.97	18.03	



<LTE Band 2_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	14.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	13.23	13.40	13.43	
20	QPSK	1	49	12.77	12.94	12.91	14.5
20	QPSK	1	99	12.54	12.66	12.64	
20	QPSK	50	0	12.71	12.96	12.95	
20	QPSK	50	24	12.76	13.00	12.95	14.5
20	QPSK	50	50	12.78	12.96	12.91	
20	QPSK	100	0	12.73	13.00	13.03	
20	16QAM	1	0	13.11	13.30	13.33	14.5
20	16QAM	1	49	13.06	13.24	13.25	
20	16QAM	1	99	12.98	13.23	13.25	
20	16QAM	50	0	12.80	13.04	13.01	14.5
20	16QAM	50	24	12.75	13.02	12.95	
20	16QAM	50	50	12.79	13.02	13.00	
20	16QAM	100	0	12.89	13.10	13.13	14.5
20	64QAM	1	0	13.02	13.24	13.25	
20	64QAM	1	49	13.09	13.26	13.25	
20	64QAM	1	99	12.94	13.20	13.14	14.5
20	64QAM	50	0	12.78	13.02	12.96	
20	64QAM	50	24	12.89	13.06	12.99	
20	64QAM	50	50	12.73	12.97	12.97	14.5
20	64QAM	100	0	12.76	12.98	12.92	
20	256QAM	1	0	12.55	12.68	12.70	
20	256QAM	1	49	12.52	12.77	12.71	14.5
20	256QAM	1	99	12.51	12.59	12.59	
20	256QAM	50	0	12.77	13.00	12.95	
20	256QAM	50	24	12.73	12.97	12.90	14.5
20	256QAM	50	50	12.79	12.97	12.90	
20	256QAM	100	0	12.78	13.00	13.03	
Channel				18675	18900	19125	14.5
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	13.19	13.38	13.38	
15	QPSK	1	37	12.66	12.86	12.86	14.5
15	QPSK	1	74	12.56	12.57	12.63	
15	QPSK	36	0	12.68	12.82	12.94	
15	QPSK	36	20	12.80	12.92	12.95	14.5
15	QPSK	36	39	12.73	12.84	12.91	
15	QPSK	75	0	12.64	12.96	12.96	
15	16QAM	1	0	13.02	13.21	13.25	14.5
15	16QAM	1	37	12.97	13.15	13.16	
15	16QAM	1	74	13.04	13.10	13.18	
15	16QAM	36	0	12.75	12.97	13.07	14.5
15	16QAM	36	20	12.80	12.96	12.87	
15	16QAM	36	39	12.70	12.93	13.02	
15	16QAM	75	0	12.85	13.04	13.08	14.5
15	64QAM	1	0	12.95	13.18	13.15	
15	64QAM	1	37	12.94	13.23	13.27	
15	64QAM	1	74	12.93	13.13	13.20	14.5
15	64QAM	36	0	12.70	12.97	13.01	
15	64QAM	36	20	12.74	13.06	13.01	
15	64QAM	36	39	12.71	12.91	12.95	14.5
15	64QAM	75	0	12.73	12.86	12.89	
15	256QAM	1	0	12.64	12.66	12.62	
15	256QAM	1	37	12.67	12.68	12.65	14.5
15	256QAM	1	74	12.53	12.58	12.58	
15	256QAM	36	0	12.67	12.93	12.85	
15	256QAM	36	20	12.67	12.84	12.89	14.5



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15	256QAM	36	39	12.67	12.92	12.84	Tune-up limit (dBm)
15	256QAM	75	0	12.72	12.88	12.92	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	13.14	13.36	13.42	14.5
10	QPSK	1	25	12.61	12.76	12.91	
10	QPSK	1	49	12.58	12.59	12.55	
10	QPSK	25	0	12.70	12.93	12.97	14.5
10	QPSK	25	12	12.76	12.96	12.94	
10	QPSK	25	25	12.78	12.84	12.92	
10	QPSK	50	0	12.78	12.87	12.89	
10	16QAM	1	0	13.04	13.13	13.24	14.5
10	16QAM	1	25	13.01	13.16	13.19	
10	16QAM	1	49	13.04	13.18	13.13	
10	16QAM	25	0	12.82	12.88	12.87	14.5
10	16QAM	25	12	12.78	12.86	12.97	
10	16QAM	25	25	12.71	12.95	12.98	
10	16QAM	50	0	12.80	12.95	12.99	
10	64QAM	1	0	13.02	13.12	13.11	14.5
10	64QAM	1	25	12.91	13.20	13.25	
10	64QAM	1	49	12.94	13.07	13.07	
10	64QAM	25	0	12.78	12.99	12.96	14.5
10	64QAM	25	12	12.78	13.02	12.94	
10	64QAM	25	25	12.67	12.85	12.89	
10	64QAM	50	0	12.73	12.93	12.97	
10	256QAM	1	0	12.59	12.61	12.61	14.5
10	256QAM	1	25	12.67	12.62	12.68	
10	256QAM	1	49	12.55	12.59	12.53	
10	256QAM	25	0	12.73	12.88	13.00	14.5
10	256QAM	25	12	12.68	12.91	12.82	
10	256QAM	25	25	12.69	12.86	12.94	
10	256QAM	50	0	12.80	12.90	12.85	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	13.15	13.34	13.39	14.5
5	QPSK	1	12	12.76	12.82	12.90	
5	QPSK	1	24	12.60	12.63	12.52	
5	QPSK	12	0	12.69	12.82	12.94	14.5
5	QPSK	12	7	12.72	12.91	12.93	
5	QPSK	12	13	12.76	12.84	12.92	
5	QPSK	25	0	12.68	12.87	12.86	
5	16QAM	1	0	13.04	13.25	13.17	14.5
5	16QAM	1	12	13.00	13.06	13.20	
5	16QAM	1	24	12.94	13.15	13.24	
5	16QAM	12	0	12.77	12.88	12.98	14.5
5	16QAM	12	7	12.73	12.89	13.00	
5	16QAM	12	13	12.73	12.93	12.90	
5	16QAM	25	0	12.77	13.06	13.11	
5	64QAM	1	0	12.98	13.20	13.17	14.5
5	64QAM	1	12	13.01	13.16	13.17	
5	64QAM	1	24	12.85	13.10	13.07	
5	64QAM	12	0	12.76	12.88	12.96	14.5
5	64QAM	12	7	12.76	12.98	13.01	
5	64QAM	12	13	12.69	12.86	12.89	
5	64QAM	25	0	12.73	12.91	12.84	
5	256QAM	1	0	12.65	12.59	12.67	14.5
5	256QAM	1	12	12.68	12.70	12.70	
5	256QAM	1	24	12.57	12.54	12.52	
5	256QAM	12	0	12.77	12.88	12.97	14.5
5	256QAM	12	7	12.69	12.89	12.96	
5	256QAM	12	13	12.74	12.88	12.89	
5	256QAM	25	0	12.70	12.93	12.88	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	13.22	13.40	13.34	14.5
3	QPSK	1	8	12.67	12.79	12.88	
3	QPSK	1	14	12.61	12.56	12.55	
3	QPSK	8	0	12.72	12.80	12.87	14.5
3	QPSK	8	4	12.76	12.86	12.94	
3	QPSK	8	7	12.68	12.84	12.80	
3	QPSK	15	0	12.82	12.85	13.00	
3	16QAM	1	0	13.04	13.20	13.27	14.5
3	16QAM	1	8	12.94	13.11	13.17	
3	16QAM	1	14	12.93	13.09	13.14	
3	16QAM	8	0	12.80	12.93	12.95	14.5
3	16QAM	8	4	12.68	12.87	13.02	
3	16QAM	8	7	12.79	12.91	12.86	
3	16QAM	15	0	12.89	12.97	12.98	
3	64QAM	1	0	13.00	13.16	13.14	14.5
3	64QAM	1	8	13.01	13.18	13.17	
3	64QAM	1	14	12.91	13.05	13.13	
3	64QAM	8	0	12.74	12.90	12.97	14.5
3	64QAM	8	4	12.77	12.90	12.99	
3	64QAM	8	7	12.64	12.77	12.84	
3	64QAM	15	0	12.71	12.81	12.93	
3	256QAM	1	0	12.61	12.56	12.66	14.5
3	256QAM	1	8	12.57	12.61	12.73	
3	256QAM	1	14	12.56	12.53	12.57	
3	256QAM	8	0	12.77	12.92	12.91	14.5
3	256QAM	8	4	12.69	12.83	12.84	
3	256QAM	8	7	12.74	12.84	12.87	
3	256QAM	15	0	12.72	13.00	12.91	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	13.19	13.32	13.34	14.5
1.4	QPSK	1	3	12.63	12.89	12.79	
1.4	QPSK	1	5	12.60	12.56	12.59	
1.4	QPSK	3	0	12.70	12.88	12.88	
1.4	QPSK	3	1	12.69	12.90	12.86	
1.4	QPSK	3	3	12.70	12.85	12.87	
1.4	QPSK	6	0	12.69	12.89	12.91	14.5
1.4	16QAM	1	0	12.99	13.13	13.25	14.5
1.4	16QAM	1	3	12.90	13.14	13.09	
1.4	16QAM	1	5	12.97	13.07	13.20	
1.4	16QAM	3	0	12.77	12.96	12.89	
1.4	16QAM	3	1	12.69	12.95	12.93	
1.4	16QAM	3	3	12.75	12.93	12.96	14.5
1.4	16QAM	6	0	12.85	13.01	13.11	
1.4	64QAM	1	0	12.97	13.13	13.24	14.5
1.4	64QAM	1	3	12.98	13.23	13.14	
1.4	64QAM	1	5	12.93	13.10	13.10	
1.4	64QAM	3	0	12.76	12.99	12.93	
1.4	64QAM	3	1	12.79	12.90	13.08	
1.4	64QAM	3	3	12.65	12.90	12.90	14.5
1.4	64QAM	6	0	12.77	12.84	12.96	
1.4	256QAM	1	0	12.60	12.61	12.61	14.5
1.4	256QAM	1	3	12.62	12.65	12.68	
1.4	256QAM	1	5	12.54	12.57	12.59	
1.4	256QAM	3	0	12.66	12.92	12.95	
1.4	256QAM	3	1	12.66	12.89	12.84	
1.4	256QAM	3	3	12.71	12.88	12.88	14.5
1.4	256QAM	6	0	12.73	12.85	12.87	



<LTE Band 2_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.35	20.48	20.53	
20	QPSK	1	49	20.44	20.45	20.35	21.5
20	QPSK	1	99	20.34	20.41	20.40	
20	QPSK	50	0	20.46	20.46	20.42	
20	QPSK	50	24	20.42	20.48	20.44	21.5
20	QPSK	50	50	20.33	20.36	20.31	
20	QPSK	100	0	20.35	20.38	20.30	
20	16QAM	1	0	20.34	20.44	20.38	21.5
20	16QAM	1	49	20.35	20.45	20.38	
20	16QAM	1	99	20.39	20.42	20.38	
20	16QAM	50	0	20.44	20.44	20.41	21.5
20	16QAM	50	24	20.35	20.42	20.37	
20	16QAM	50	50	20.34	20.43	20.39	
20	16QAM	100	0	20.36	20.43	20.43	21.5
20	64QAM	1	0	20.44	20.51	20.45	
20	64QAM	1	49	20.46	20.49	20.45	
20	64QAM	1	99	20.43	20.48	20.46	21.5
20	64QAM	50	0	20.20	20.23	20.15	
20	64QAM	50	24	20.27	20.27	20.19	
20	64QAM	50	50	20.24	20.25	20.20	21.5
20	64QAM	100	0	20.18	20.20	20.19	
20	256QAM	1	0	18.25	18.26	18.23	19.5
20	256QAM	1	49	18.44	18.46	18.41	
20	256QAM	1	99	18.21	18.22	18.22	
20	256QAM	50	0	18.20	18.20	18.10	19.5
20	256QAM	50	24	18.13	18.20	18.16	
20	256QAM	50	50	18.18	18.18	18.09	
20	256QAM	100	0	18.12	18.14	18.08	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.25	20.43	20.49	
15	QPSK	1	37	20.36	20.35	20.31	21.5
15	QPSK	1	74	20.30	20.34	20.35	
15	QPSK	36	0	20.44	20.46	20.35	21.5
15	QPSK	36	20	20.35	20.39	20.44	
15	QPSK	36	39	20.28	20.35	20.24	
15	QPSK	75	0	20.33	20.29	20.21	21.5
15	16QAM	1	0	20.27	20.39	20.28	
15	16QAM	1	37	20.30	20.39	20.36	
15	16QAM	1	74	20.39	20.42	20.29	21.5
15	16QAM	36	0	20.37	20.40	20.32	
15	16QAM	36	20	20.35	20.36	20.30	
15	16QAM	36	39	20.25	20.33	20.32	21.5
15	16QAM	75	0	20.27	20.41	20.33	
15	64QAM	1	0	20.35	20.48	20.37	
15	64QAM	1	37	20.42	20.39	20.36	21.5
15	64QAM	1	74	20.37	20.45	20.42	
15	64QAM	36	0	20.14	20.17	20.15	
15	64QAM	36	20	20.22	20.21	20.09	21.5
15	64QAM	36	39	20.22	20.23	20.13	
15	64QAM	75	0	20.15	20.15	20.15	
15	256QAM	1	0	18.15	18.22	18.14	19.5
15	256QAM	1	37	18.36	18.41	18.33	
15	256QAM	1	74	18.19	18.12	18.22	
15	256QAM	36	0	18.13	18.11	18.07	19.5
15	256QAM	36	20	18.05	18.14	18.11	



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15	256QAM	36	39	18.09	18.12	18.05	
15	256QAM	75	0	18.09	18.11	18.08	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.26	20.41	20.46	21.5
10	QPSK	1	25	20.34	20.37	20.34	
10	QPSK	1	49	20.30	20.39	20.40	
10	QPSK	25	0	20.37	20.42	20.34	21.5
10	QPSK	25	12	20.33	20.39	20.35	
10	QPSK	25	25	20.28	20.31	20.24	
10	QPSK	50	0	20.26	20.34	20.27	
10	16QAM	1	0	20.32	20.44	20.31	21.5
10	16QAM	1	25	20.30	20.41	20.34	
10	16QAM	1	49	20.37	20.40	20.28	
10	16QAM	25	0	20.40	20.36	20.38	21.5
10	16QAM	25	12	20.34	20.39	20.30	
10	16QAM	25	25	20.27	20.38	20.39	
10	16QAM	50	0	20.34	20.37	20.34	
10	64QAM	1	0	20.38	20.42	20.45	21.5
10	64QAM	1	25	20.41	20.49	20.40	
10	64QAM	1	49	20.35	20.44	20.43	
10	64QAM	25	0	20.19	20.21	20.06	21.5
10	64QAM	25	12	20.17	20.18	20.16	
10	64QAM	25	25	20.14	20.18	20.12	
10	64QAM	50	0	20.16	20.15	20.11	
10	256QAM	1	0	18.17	18.16	18.16	19.5
10	256QAM	1	25	18.37	18.40	18.38	
10	256QAM	1	49	18.16	18.20	18.13	
10	256QAM	25	0	18.10	18.19	18.05	19.5
10	256QAM	25	12	18.10	18.10	18.10	
10	256QAM	25	25	18.08	18.13	18.00	
10	256QAM	50	0	18.03	18.12	18.06	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.34	20.45	20.49	21.5
5	QPSK	1	12	20.40	20.39	20.28	
5	QPSK	1	24	20.25	20.32	20.36	
5	QPSK	12	0	20.46	20.36	20.38	21.5
5	QPSK	12	7	20.33	20.46	20.44	
5	QPSK	12	13	20.26	20.26	20.28	
5	QPSK	25	0	20.30	20.36	20.21	
5	16QAM	1	0	20.30	20.35	20.28	21.5
5	16QAM	1	12	20.29	20.41	20.33	
5	16QAM	1	24	20.31	20.37	20.37	
5	16QAM	12	0	20.41	20.41	20.32	21.5
5	16QAM	12	7	20.27	20.39	20.32	
5	16QAM	12	13	20.26	20.36	20.38	
5	16QAM	25	0	20.30	20.37	20.35	
5	64QAM	1	0	20.37	20.48	20.44	21.5
5	64QAM	1	12	20.45	20.49	20.43	
5	64QAM	1	24	20.37	20.48	20.38	
5	64QAM	12	0	20.19	20.15	20.06	21.5
5	64QAM	12	7	20.17	20.17	20.19	
5	64QAM	12	13	20.17	20.25	20.18	
5	64QAM	25	0	20.10	20.12	20.17	
5	256QAM	1	0	18.24	18.17	18.14	19.5
5	256QAM	1	12	18.44	18.46	18.41	
5	256QAM	1	24	18.17	18.12	18.15	
5	256QAM	12	0	18.11	18.12	18.10	19.5
5	256QAM	12	7	18.10	18.19	18.15	
5	256QAM	12	13	18.17	18.13	18.08	
5	256QAM	25	0	18.08	18.04	18.02	



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Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	20.27	20.47	20.44	21.5
3	QPSK	1	8	20.37	20.35	20.32	
3	QPSK	1	14	20.29	20.35	20.35	
3	QPSK	8	0	20.46	20.39	20.34	21.5
3	QPSK	8	4	20.35	20.44	20.41	
3	QPSK	8	7	20.28	20.26	20.29	
3	QPSK	15	0	20.25	20.37	20.25	
3	16QAM	1	0	20.26	20.36	20.30	21.5
3	16QAM	1	8	20.28	20.41	20.32	
3	16QAM	1	14	20.35	20.34	20.31	
3	16QAM	8	0	20.42	20.34	20.35	21.5
3	16QAM	8	4	20.26	20.34	20.29	
3	16QAM	8	7	20.28	20.43	20.29	
3	16QAM	15	0	20.33	20.34	20.40	
3	64QAM	1	0	20.42	20.47	20.44	21.5
3	64QAM	1	8	20.46	20.46	20.40	
3	64QAM	1	14	20.36	20.47	20.38	
3	64QAM	8	0	20.15	20.21	20.05	21.5
3	64QAM	8	4	20.27	20.18	20.15	
3	64QAM	8	7	20.24	20.15	20.12	
3	64QAM	15	0	20.08	20.19	20.16	
3	256QAM	1	0	18.20	18.21	18.13	19.5
3	256QAM	1	8	18.43	18.38	18.39	
3	256QAM	1	14	18.13	18.12	18.14	
3	256QAM	8	0	18.13	18.11	18.01	19.5
3	256QAM	8	4	18.05	18.14	18.06	
3	256QAM	8	7	18.14	18.08	18.02	
3	256QAM	15	0	18.11	18.14	18.02	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.26	20.48	20.46	21.5
1.4	QPSK	1	3	20.41	20.38	20.26	
1.4	QPSK	1	5	20.28	20.38	20.34	
1.4	QPSK	3	0	20.39	20.42	20.37	
1.4	QPSK	3	1	20.33	20.44	20.37	
1.4	QPSK	3	3	20.30	20.31	20.25	
1.4	QPSK	6	0	20.34	20.34	20.29	21.5
1.4	16QAM	1	0	20.29	20.44	20.29	21.5
1.4	16QAM	1	3	20.26	20.36	20.36	
1.4	16QAM	1	5	20.29	20.32	20.35	
1.4	16QAM	3	0	20.39	20.43	20.34	
1.4	16QAM	3	1	20.27	20.32	20.34	
1.4	16QAM	3	3	20.29	20.33	20.37	21.5
1.4	16QAM	6	0	20.26	20.40	20.39	
1.4	64QAM	1	0	20.39	20.43	20.45	21.5
1.4	64QAM	1	3	20.43	20.46	20.44	
1.4	64QAM	1	5	20.38	20.47	20.36	
1.4	64QAM	3	0	20.10	20.20	20.15	
1.4	64QAM	3	1	20.21	20.27	20.14	
1.4	64QAM	3	3	20.18	20.17	20.18	
1.4	64QAM	6	0	20.09	20.18	20.10	21.5
1.4	256QAM	1	0	18.24	18.16	18.15	19.5
1.4	256QAM	1	3	18.42	18.41	18.41	
1.4	256QAM	1	5	18.15	18.12	18.14	
1.4	256QAM	3	0	18.13	18.12	18.00	
1.4	256QAM	3	1	18.03	18.19	18.07	
1.4	256QAM	3	3	18.08	18.09	18.01	19.5
1.4	256QAM	6	0	18.03	18.04	18.05	



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<LTE Band 4_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.45	23.37	23.37	
20	QPSK	1	49	23.23	23.09	23.23	24
20	QPSK	1	99	23.20	23.39	23.16	
20	QPSK	50	0	22.22	22.35	22.45	
20	QPSK	50	24	22.20	22.33	22.38	23
20	QPSK	50	50	22.28	22.29	22.41	
20	QPSK	100	0	22.29	22.33	22.43	
20	16QAM	1	0	22.28	22.70	22.06	23
20	16QAM	1	49	22.08	22.80	22.77	
20	16QAM	1	99	22.13	22.47	22.18	
20	16QAM	50	0	21.25	21.21	21.32	22
20	16QAM	50	24	21.38	21.32	21.24	
20	16QAM	50	50	21.42	21.46	21.28	
20	16QAM	100	0	21.29	21.36	21.46	22
20	64QAM	1	0	21.36	21.53	21.81	
20	64QAM	1	49	21.12	21.26	21.44	
20	64QAM	1	99	21.93	21.37	21.31	21
20	64QAM	50	0	20.26	20.22	20.28	
20	64QAM	50	24	20.44	20.37	20.35	
20	64QAM	50	50	20.26	20.27	20.47	19
20	64QAM	100	0	20.20	20.18	20.44	
20	256QAM	1	0	18.28	18.36	18.30	
20	256QAM	1	49	18.22	18.41	18.33	19
20	256QAM	1	99	18.39	18.47	18.40	
20	256QAM	50	0	18.08	18.25	18.06	
20	256QAM	50	24	18.21	18.30	18.22	19
20	256QAM	50	50	18.16	18.35	18.21	
20	256QAM	100	0	18.02	18.16	18.19	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.29	23.18	23.21	
15	QPSK	1	37	23.31	23.15	23.25	24
15	QPSK	1	74	23.27	23.06	23.33	
15	QPSK	36	0	22.38	22.37	22.47	23
15	QPSK	36	20	22.17	22.19	22.35	
15	QPSK	36	39	22.27	22.37	22.32	
15	QPSK	75	0	22.29	22.22	22.32	23
15	16QAM	1	0	22.18	22.73	22.02	
15	16QAM	1	37	22.07	22.79	22.71	
15	16QAM	1	74	22.10	22.36	22.05	22
15	16QAM	36	0	21.33	21.21	21.32	
15	16QAM	36	20	21.25	21.31	21.36	
15	16QAM	36	39	21.35	21.35	21.24	22
15	16QAM	75	0	21.28	21.38	21.31	
15	64QAM	1	0	21.37	21.67	21.74	
15	64QAM	1	37	20.99	21.12	21.38	21
15	64QAM	1	74	21.87	21.38	21.30	
15	64QAM	36	0	20.15	20.19	20.24	
15	64QAM	36	20	20.38	20.23	20.33	19
15	64QAM	36	39	20.32	20.34	20.41	
15	64QAM	75	0	20.29	20.03	20.44	
15	256QAM	1	0	18.26	18.43	18.36	19
15	256QAM	1	37	18.18	18.42	18.26	
15	256QAM	1	74	18.40	18.56	18.53	
15	256QAM	36	0	18.11	18.18	18.17	19
15	256QAM	36	20	18.15	18.22	18.12	



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15	256QAM	36	39	18.26	18.35	18.27	
15	256QAM	75	0	18.02	18.16	18.15	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.26	23.18	23.26	24
10	QPSK	1	25	23.28	23.22	23.13	
10	QPSK	1	49	23.19	23.25	23.28	
10	QPSK	25	0	22.21	22.34	22.39	23
10	QPSK	25	12	22.24	22.21	22.30	
10	QPSK	25	25	22.34	22.33	22.29	
10	QPSK	50	0	22.26	22.23	22.45	
10	16QAM	1	0	22.14	22.72	22.06	23
10	16QAM	1	25	22.19	22.83	22.64	
10	16QAM	1	49	22.19	22.39	21.88	
10	16QAM	25	0	21.27	21.32	21.24	22
10	16QAM	25	12	21.35	21.30	21.39	
10	16QAM	25	25	21.29	21.30	21.27	
10	16QAM	50	0	21.29	21.33	21.48	
10	64QAM	1	0	21.43	21.57	21.74	22
10	64QAM	1	25	21.01	21.06	21.51	
10	64QAM	1	49	21.73	21.37	21.33	
10	64QAM	25	0	20.17	20.26	20.32	21
10	64QAM	25	12	20.26	20.35	20.29	
10	64QAM	25	25	20.44	20.31	20.40	
10	64QAM	50	0	20.23	20.02	20.40	
10	256QAM	1	0	18.22	18.35	18.37	19
10	256QAM	1	25	18.32	18.44	18.33	
10	256QAM	1	49	18.38	18.58	18.37	
10	256QAM	25	0	17.95	18.31	18.11	19
10	256QAM	25	12	18.17	18.18	18.09	
10	256QAM	25	25	18.08	18.37	18.19	
10	256QAM	50	0	17.99	18.14	18.13	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.34	23.31	23.37	24
5	QPSK	1	12	23.28	23.11	23.15	
5	QPSK	1	24	23.39	23.16	23.32	
5	QPSK	12	0	22.29	22.31	22.41	23
5	QPSK	12	7	22.19	22.29	22.35	
5	QPSK	12	13	22.29	22.26	22.42	
5	QPSK	25	0	22.38	22.33	22.40	
5	16QAM	1	0	22.14	22.74	21.97	23
5	16QAM	1	12	22.13	22.76	22.62	
5	16QAM	1	24	22.19	22.39	21.89	
5	16QAM	12	0	21.27	21.22	21.35	22
5	16QAM	12	7	21.43	21.15	21.30	
5	16QAM	12	13	21.29	21.39	21.21	
5	16QAM	25	0	21.27	21.27	21.39	
5	64QAM	1	0	21.26	21.60	21.68	22
5	64QAM	1	12	20.97	21.11	21.49	
5	64QAM	1	24	21.87	21.46	21.18	
5	64QAM	12	0	20.28	20.22	20.29	21
5	64QAM	12	7	20.44	20.34	20.32	
5	64QAM	12	13	20.44	20.32	20.47	
5	64QAM	25	0	20.31	20.04	20.40	
5	256QAM	1	0	18.30	18.45	18.32	19
5	256QAM	1	12	18.20	18.42	18.32	
5	256QAM	1	24	18.49	18.50	18.49	
5	256QAM	12	0	18.07	18.27	18.14	19
5	256QAM	12	7	18.23	18.30	18.21	
5	256QAM	12	13	18.19	18.29	18.18	
5	256QAM	25	0	18.13	18.24	18.19	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.42	23.36	23.28	24
3	QPSK	1	8	23.33	23.05	23.10	
3	QPSK	1	14	23.33	23.11	23.30	
3	QPSK	8	0	22.18	22.21	22.45	23
3	QPSK	8	4	22.28	22.36	22.39	
3	QPSK	8	7	22.34	22.30	22.43	
3	QPSK	15	0	22.26	22.20	22.42	
3	16QAM	1	0	22.22	22.78	22.07	23
3	16QAM	1	8	22.18	22.79	22.71	
3	16QAM	1	14	22.13	22.42	21.90	
3	16QAM	8	0	21.28	21.28	21.32	22
3	16QAM	8	4	21.26	21.18	21.41	
3	16QAM	8	7	21.33	21.43	21.29	
3	16QAM	15	0	21.21	21.38	21.37	
3	64QAM	1	0	21.28	21.70	21.71	22
3	64QAM	1	8	21.03	21.16	21.54	
3	64QAM	1	14	21.77	21.38	21.23	
3	64QAM	8	0	20.28	20.18	20.31	21
3	64QAM	8	4	20.43	20.32	20.21	
3	64QAM	8	7	20.29	20.35	20.52	
3	64QAM	15	0	20.33	20.06	20.33	
3	256QAM	1	0	18.19	18.28	18.34	19
3	256QAM	1	8	18.19	18.43	18.34	
3	256QAM	1	14	18.37	18.54	18.51	
3	256QAM	8	0	17.94	18.15	18.20	19
3	256QAM	8	4	18.16	18.16	18.15	
3	256QAM	8	7	18.12	18.33	18.21	
3	256QAM	15	0	18.12	18.14	18.11	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.29	23.37	23.32	24
1.4	QPSK	1	3	23.26	23.22	23.15	
1.4	QPSK	1	5	23.25	23.15	23.31	
1.4	QPSK	3	0	23.33	23.25	23.23	
1.4	QPSK	3	1	23.24	23.10	23.21	
1.4	QPSK	3	3	23.28	23.11	23.22	
1.4	QPSK	6	0	22.33	22.22	22.37	23
1.4	16QAM	1	0	22.28	22.33	22.31	23
1.4	16QAM	1	3	22.27	22.37	22.44	
1.4	16QAM	1	5	22.37	22.32	22.36	
1.4	16QAM	3	0	22.18	22.77	21.95	
1.4	16QAM	3	1	22.17	22.77	22.71	
1.4	16QAM	3	3	22.15	22.35	22.00	22
1.4	16QAM	6	0	21.33	21.29	21.25	
1.4	64QAM	1	0	21.32	21.16	21.37	22
1.4	64QAM	1	3	21.31	21.45	21.34	
1.4	64QAM	1	5	21.25	21.26	21.48	
1.4	64QAM	3	0	21.42	21.56	21.80	
1.4	64QAM	3	1	21.04	21.24	21.39	
1.4	64QAM	3	3	21.74	21.43	21.29	21
1.4	64QAM	6	0	20.34	20.11	20.35	
1.4	256QAM	1	0	18.17	18.26	18.30	19
1.4	256QAM	1	3	18.21	18.33	18.27	
1.4	256QAM	1	5	18.48	18.57	18.49	
1.4	256QAM	3	0	17.94	18.30	18.07	
1.4	256QAM	3	1	18.11	18.28	18.24	
1.4	256QAM	3	3	18.19	18.28	18.34	19
1.4	256QAM	6	0	18.00	18.22	18.19	



<LTE Band 4_Ant 0_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.88	21.02	20.81	
20	QPSK	1	49	20.70	20.82	20.78	22
20	QPSK	1	99	20.90	20.79	20.61	
20	QPSK	50	0	19.84	19.94	19.91	
20	QPSK	50	24	19.89	19.86	19.85	21
20	QPSK	50	50	19.96	19.89	19.80	
20	QPSK	100	0	19.82	19.90	19.89	
20	16QAM	1	0	20.20	19.91	20.19	21
20	16QAM	1	49	20.30	20.31	19.83	
20	16QAM	1	99	20.01	19.84	20.13	
20	16QAM	50	0	18.87	18.90	18.87	20
20	16QAM	50	24	18.87	18.84	18.84	
20	16QAM	50	50	18.82	18.94	18.90	
20	16QAM	100	0	18.95	18.87	18.78	20
20	64QAM	1	0	19.05	18.84	18.90	
20	64QAM	1	49	18.75	19.15	19.09	
20	64QAM	1	99	19.02	18.98	18.88	19
20	64QAM	50	0	17.85	17.92	17.88	
20	64QAM	50	24	17.91	17.83	17.84	
20	64QAM	50	50	17.87	18.00	17.86	17
20	64QAM	100	0	17.89	17.86	17.73	
20	256QAM	1	0	15.73	15.71	15.74	
20	256QAM	1	49	15.88	15.88	15.81	17
20	256QAM	1	99	15.82	15.88	15.87	
20	256QAM	50	0	15.71	15.83	15.79	
20	256QAM	50	24	15.87	15.88	15.73	17
20	256QAM	50	50	15.82	15.87	15.83	
20	256QAM	100	0	15.81	15.86	15.85	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.79	20.85	20.77	
15	QPSK	1	37	20.84	20.83	20.81	22
15	QPSK	1	74	20.83	20.80	20.77	
15	QPSK	36	0	19.82	19.87	19.85	21
15	QPSK	36	20	19.91	19.88	19.88	
15	QPSK	36	39	19.87	19.92	19.86	
15	QPSK	75	0	19.86	19.86	19.91	21
15	16QAM	1	0	20.13	20.19	20.13	
15	16QAM	1	37	20.16	20.16	20.15	
15	16QAM	1	74	20.16	20.11	20.08	20
15	16QAM	36	0	18.82	18.86	18.84	
15	16QAM	36	20	18.86	18.85	18.91	
15	16QAM	36	39	18.86	18.91	18.87	20
15	16QAM	75	0	18.88	18.86	18.89	
15	64QAM	1	0	19.03	19.09	19.03	
15	64QAM	1	37	19.04	19.07	19.05	20
15	64QAM	1	74	19.04	19.08	19.05	
15	64QAM	36	0	17.80	17.87	17.85	
15	64QAM	36	20	17.85	17.87	17.89	19
15	64QAM	36	39	17.86	17.91	17.86	
15	64QAM	75	0	17.86	17.85	17.88	
15	256QAM	1	0	15.82	15.80	15.74	17
15	256QAM	1	37	15.74	15.78	15.80	
15	256QAM	1	74	15.76	15.77	15.87	
15	256QAM	36	0	15.86	15.77	15.79	17
15	256QAM	36	20	15.81	15.70	15.85	



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15	256QAM	36	39	15.90	15.83	15.79	Tune-up limit (dBm)
15	256QAM	75	0	15.75	15.86	15.72	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.88	20.93	20.92	22
10	QPSK	1	25	20.97	21.01	20.96	
10	QPSK	1	49	20.90	20.91	20.90	
10	QPSK	25	0	19.94	19.96	19.95	21
10	QPSK	25	12	20.02	20.00	19.96	
10	QPSK	25	25	19.99	20.01	19.97	
10	QPSK	50	0	20.00	19.96	19.94	
10	16QAM	1	0	20.28	20.23	20.30	21
10	16QAM	1	25	20.31	20.34	20.30	
10	16QAM	1	49	20.22	20.30	20.25	
10	16QAM	25	0	18.96	18.97	18.96	20
10	16QAM	25	12	19.07	19.00	18.97	
10	16QAM	25	25	19.03	19.02	19.01	
10	16QAM	50	0	19.04	18.96	18.93	
10	64QAM	1	0	19.10	19.06	19.10	20
10	64QAM	1	25	19.19	19.23	19.22	
10	64QAM	1	49	19.11	19.13	19.08	
10	64QAM	25	0	17.94	17.97	17.95	19
10	64QAM	25	12	18.04	17.99	17.96	
10	64QAM	25	25	18.01	18.01	17.97	
10	64QAM	50	0	18.02	17.97	17.94	
10	256QAM	1	0	15.70	15.83	15.70	17
10	256QAM	1	25	15.78	15.70	15.83	
10	256QAM	1	49	15.79	15.72	15.75	
10	256QAM	25	0	15.73	15.85	15.87	17
10	256QAM	25	12	15.87	15.76	15.77	
10	256QAM	25	25	15.84	15.87	15.73	
10	256QAM	50	0	15.75	15.87	15.78	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.87	20.90	20.88	22
5	QPSK	1	12	21.00	21.01	20.97	
5	QPSK	1	24	20.90	20.91	20.89	
5	QPSK	12	0	19.94	19.92	19.90	21
5	QPSK	12	7	20.06	19.96	20.01	
5	QPSK	12	13	19.99	20.00	19.95	
5	QPSK	25	0	20.01	19.93	19.98	
5	16QAM	1	0	20.24	20.29	20.19	21
5	16QAM	1	12	20.36	20.37	20.31	
5	16QAM	1	24	20.21	20.26	20.22	
5	16QAM	12	0	18.96	18.97	18.92	20
5	16QAM	12	7	19.07	19.01	19.01	
5	16QAM	12	13	19.04	19.04	18.99	
5	16QAM	25	0	18.99	18.92	19.01	
5	64QAM	1	0	19.13	19.09	19.03	20
5	64QAM	1	12	19.23	19.26	19.12	
5	64QAM	1	24	19.06	19.07	19.04	
5	64QAM	12	0	17.94	17.93	17.90	19
5	64QAM	12	7	18.03	18.00	18.02	
5	64QAM	12	13	18.00	18.00	17.97	
5	64QAM	25	0	17.97	17.94	17.96	
5	256QAM	1	0	15.72	15.72	15.87	17
5	256QAM	1	12	15.87	15.82	15.73	
5	256QAM	1	24	15.82	15.70	15.72	
5	256QAM	12	0	15.78	15.81	15.78	17
5	256QAM	12	7	15.90	15.77	15.79	
5	256QAM	12	13	15.82	15.86	15.90	
5	256QAM	25	0	15.78	15.75	15.87	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.81	20.83	20.72	22
3	QPSK	1	8	20.61	20.75	20.63	
3	QPSK	1	14	20.78	20.64	20.45	
3	QPSK	8	0	19.75	19.78	19.72	21
3	QPSK	8	4	19.83	19.82	19.78	
3	QPSK	8	7	19.84	19.89	19.76	
3	QPSK	15	0	19.62	19.83	19.89	
3	16QAM	1	0	20.17	19.81	20.16	21
3	16QAM	1	8	20.24	20.21	19.83	
3	16QAM	1	14	19.94	19.84	19.93	
3	16QAM	8	0	18.74	18.79	18.74	20
3	16QAM	8	4	18.84	18.69	18.66	
3	16QAM	8	7	18.71	18.87	18.86	
3	16QAM	15	0	18.91	18.69	18.69	
3	64QAM	1	0	19.05	18.71	18.85	20
3	64QAM	1	8	18.69	19.01	19.04	
3	64QAM	1	14	19.02	18.94	18.71	
3	64QAM	8	0	17.79	17.80	17.69	19
3	64QAM	8	4	17.80	17.79	17.74	
3	64QAM	8	7	17.73	17.86	17.74	
3	64QAM	15	0	17.76	17.86	17.71	
3	256QAM	1	0	15.86	15.85	15.76	17
3	256QAM	1	8	15.88	15.87	15.87	
3	256QAM	1	14	15.77	15.75	15.83	
3	256QAM	8	0	15.77	15.84	15.70	17
3	256QAM	8	4	15.82	15.78	15.89	
3	256QAM	8	7	15.73	15.70	15.73	
3	256QAM	15	0	15.88	15.87	15.71	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.91	20.92	20.88	22
1.4	QPSK	1	3	20.97	20.98	20.94	
1.4	QPSK	1	5	20.90	20.91	20.87	
1.4	QPSK	3	0	20.94	20.96	20.92	
1.4	QPSK	3	1	20.95	20.97	20.95	
1.4	QPSK	3	3	20.94	20.96	20.92	
1.4	QPSK	6	0	19.96	19.98	19.94	21
1.4	16QAM	1	0	20.25	20.29	20.22	21
1.4	16QAM	1	3	20.28	20.34	20.27	
1.4	16QAM	1	5	20.26	20.28	20.21	
1.4	16QAM	3	0	20.07	20.11	20.06	
1.4	16QAM	3	1	20.09	20.09	20.04	
1.4	16QAM	3	3	20.08	20.10	20.03	20
1.4	16QAM	6	0	19.01	19.08	19.01	
1.4	64QAM	1	0	19.07	19.11	19.08	
1.4	64QAM	1	3	19.12	19.19	19.12	20
1.4	64QAM	1	5	19.06	19.12	19.09	
1.4	64QAM	3	0	19.06	19.06	19.03	
1.4	64QAM	3	1	19.03	19.05	19.06	
1.4	64QAM	3	3	19.06	19.06	19.02	19
1.4	64QAM	6	0	18.01	18.02	17.99	
1.4	256QAM	1	0	15.74	15.87	15.88	
1.4	256QAM	1	3	15.70	15.74	15.81	17
1.4	256QAM	1	5	15.80	15.89	15.70	
1.4	256QAM	3	0	15.71	15.80	15.84	
1.4	256QAM	3	1	15.90	15.76	15.74	
1.4	256QAM	3	3	15.71	15.75	15.86	17
1.4	256QAM	6	0	15.77	15.72	15.80	



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<LTE Band 4_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.97	22.85	23.01	
20	QPSK	1	49	22.74	22.54	22.91	24
20	QPSK	1	99	22.50	22.37	22.85	
20	QPSK	50	0	21.41	21.20	21.59	
20	QPSK	50	24	21.39	21.20	21.57	23
20	QPSK	50	50	21.45	21.23	21.65	
20	QPSK	100	0	21.50	21.38	21.67	
20	16QAM	1	0	21.24	21.10	21.56	23
20	16QAM	1	49	21.27	21.14	21.51	
20	16QAM	1	99	21.36	21.29	21.64	
20	16QAM	50	0	20.35	20.25	20.56	22
20	16QAM	50	24	20.40	20.20	20.61	
20	16QAM	50	50	20.43	20.22	20.66	
20	16QAM	100	0	20.42	20.24	20.65	22
20	64QAM	1	0	20.39	20.18	20.49	
20	64QAM	1	49	20.31	20.07	20.49	
20	64QAM	1	99	20.38	20.28	20.64	21
20	64QAM	50	0	19.30	19.15	19.58	
20	64QAM	50	24	19.24	19.14	19.48	
20	64QAM	50	50	19.38	19.21	19.56	19
20	64QAM	100	0	19.55	19.32	19.64	
20	256QAM	1	0	17.42	17.23	17.58	
20	256QAM	1	49	17.47	17.30	17.67	19
20	256QAM	1	99	17.44	17.33	17.64	
20	256QAM	50	0	17.30	17.14	17.55	
20	256QAM	50	24	17.39	17.19	17.64	19
20	256QAM	50	50	17.38	17.31	17.63	
20	256QAM	100	0	17.37	17.24	17.62	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.92	22.80	22.97	
15	QPSK	1	37	22.66	22.48	22.88	24
15	QPSK	1	74	22.40	22.27	22.80	
15	QPSK	36	0	21.36	21.12	21.59	23
15	QPSK	36	20	21.31	21.14	21.55	
15	QPSK	36	39	21.37	21.15	21.62	
15	QPSK	75	0	21.46	21.32	21.57	23
15	16QAM	1	0	21.17	21.07	21.53	
15	16QAM	1	37	21.20	21.05	21.48	
15	16QAM	1	74	21.34	21.19	21.56	22
15	16QAM	36	0	20.25	20.18	20.54	
15	16QAM	36	20	20.36	20.13	20.55	
15	16QAM	36	39	20.35	20.14	20.61	22
15	16QAM	75	0	20.34	20.15	20.61	
15	64QAM	1	0	20.32	20.13	20.42	
15	64QAM	1	37	20.24	20.02	20.49	22
15	64QAM	1	74	20.31	20.21	20.63	
15	64QAM	36	0	19.30	19.15	19.48	
15	64QAM	36	20	19.15	19.12	19.43	21
15	64QAM	36	39	19.28	19.11	19.52	
15	64QAM	75	0	19.46	19.25	19.54	
15	256QAM	1	0	17.38	17.18	17.57	19
15	256QAM	1	37	17.39	17.24	17.65	
15	256QAM	1	74	17.34	17.28	17.62	
15	256QAM	36	0	17.27	17.05	17.53	19
15	256QAM	36	20	17.33	17.16	17.62	



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15	256QAM	36	39	17.35	17.26	17.63	
15	256QAM	75	0	17.27	17.16	17.53	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.97	22.76	22.94	24
10	QPSK	1	25	22.72	22.50	22.85	
10	QPSK	1	49	22.48	22.30	22.77	
10	QPSK	25	0	21.41	21.13	21.52	23
10	QPSK	25	12	21.35	21.14	21.56	
10	QPSK	25	25	21.38	21.21	21.65	
10	QPSK	50	0	21.44	21.31	21.60	
10	16QAM	1	0	21.21	21.08	21.46	23
10	16QAM	1	25	21.19	21.14	21.51	
10	16QAM	1	49	21.28	21.21	21.60	
10	16QAM	25	0	20.31	20.15	20.49	22
10	16QAM	25	12	20.36	20.12	20.55	
10	16QAM	25	25	20.37	20.20	20.62	
10	16QAM	50	0	20.37	20.22	20.60	
10	64QAM	1	0	20.35	20.15	20.39	22
10	64QAM	1	25	20.24	20.03	20.39	
10	64QAM	1	49	20.38	20.23	20.62	
10	64QAM	25	0	19.25	19.08	19.55	21
10	64QAM	25	12	19.22	19.11	19.41	
10	64QAM	25	25	19.32	19.19	19.48	
10	64QAM	50	0	19.48	19.23	19.62	
10	256QAM	1	0	17.37	17.17	17.48	19
10	256QAM	1	25	17.45	17.22	17.61	
10	256QAM	1	49	17.43	17.25	17.57	
10	256QAM	25	0	17.28	17.09	17.55	19
10	256QAM	25	12	17.30	17.17	17.55	
10	256QAM	25	25	17.28	17.27	17.62	
10	256QAM	50	0	17.33	17.20	17.55	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.88	22.77	22.95	24
5	QPSK	1	12	22.65	22.51	22.87	
5	QPSK	1	24	22.48	22.33	22.83	
5	QPSK	12	0	21.40	21.15	21.59	23
5	QPSK	12	7	21.32	21.11	21.48	
5	QPSK	12	13	21.43	21.16	21.57	
5	QPSK	25	0	21.50	21.29	21.58	
5	16QAM	1	0	21.20	21.07	21.49	23
5	16QAM	1	12	21.20	21.11	21.45	
5	16QAM	1	24	21.28	21.22	21.64	
5	16QAM	12	0	20.27	20.21	20.54	22
5	16QAM	12	7	20.38	20.12	20.56	
5	16QAM	12	13	20.42	20.19	20.57	
5	16QAM	25	0	20.32	20.17	20.61	
5	64QAM	1	0	20.37	20.12	20.49	22
5	64QAM	1	12	20.27	20.30	20.43	
5	64QAM	1	24	20.29	20.23	20.59	
5	64QAM	12	0	19.25	19.10	19.55	21
5	64QAM	12	7	19.17	19.10	19.38	
5	64QAM	12	13	19.30	19.17	19.52	
5	64QAM	25	0	19.50	19.30	19.57	
5	256QAM	1	0	17.35	17.14	17.49	19
5	256QAM	1	12	17.40	17.27	17.60	
5	256QAM	1	24	17.40	17.31	17.58	
5	256QAM	12	0	17.25	17.06	17.45	19
5	256QAM	12	7	17.32	17.11	17.62	
5	256QAM	12	13	17.33	17.26	17.58	
5	256QAM	25	0	17.28	17.17	17.55	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.93	22.77	22.99	24
3	QPSK	1	8	22.71	22.49	22.82	
3	QPSK	1	14	22.44	22.34	22.77	
3	QPSK	8	0	21.32	21.17	21.50	23
3	QPSK	8	4	21.38	21.20	21.48	
3	QPSK	8	7	21.45	21.15	21.62	
3	QPSK	15	0	21.45	21.37	21.61	
3	16QAM	1	0	21.19	21.08	21.49	23
3	16QAM	1	8	21.25	21.06	21.45	
3	16QAM	1	14	21.34	21.29	21.59	
3	16QAM	8	0	20.28	20.17	20.56	22
3	16QAM	8	4	20.34	20.17	20.56	
3	16QAM	8	7	20.37	20.20	20.61	
3	16QAM	15	0	20.41	20.19	20.56	
3	64QAM	1	0	20.39	20.08	20.42	22
3	64QAM	1	8	20.25	20.01	20.47	
3	64QAM	1	14	20.36	20.24	20.60	
3	64QAM	8	0	19.29	19.07	19.54	21
3	64QAM	8	4	19.24	19.11	19.41	
3	64QAM	8	7	19.34	19.20	19.50	
3	64QAM	15	0	19.47	19.22	19.57	
3	256QAM	1	0	17.32	17.23	17.56	19
3	256QAM	1	8	17.44	17.24	17.66	
3	256QAM	1	14	17.42	17.30	17.56	
3	256QAM	8	0	17.29	17.14	17.55	19
3	256QAM	8	4	17.30	17.18	17.63	
3	256QAM	8	7	17.36	17.25	17.58	
3	256QAM	15	0	17.35	17.21	17.57	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.97	22.76	22.96	24
1.4	QPSK	1	3	22.64	22.47	22.91	
1.4	QPSK	1	5	22.46	22.28	22.77	
1.4	QPSK	3	0	22.90	22.81	22.93	
1.4	QPSK	3	1	22.73	22.53	22.89	
1.4	QPSK	3	3	22.45	22.37	22.84	
1.4	QPSK	6	0	21.39	21.10	21.59	23
1.4	16QAM	1	0	21.37	21.13	21.52	23
1.4	16QAM	1	3	21.44	21.23	21.55	
1.4	16QAM	1	5	21.49	21.37	21.60	
1.4	16QAM	3	0	21.20	21.04	21.47	
1.4	16QAM	3	1	21.22	21.14	21.48	
1.4	16QAM	3	3	21.32	21.28	21.63	22
1.4	16QAM	6	0	20.26	20.19	20.46	
1.4	64QAM	1	0	20.38	20.14	20.53	22
1.4	64QAM	1	3	20.40	20.15	20.62	
1.4	64QAM	1	5	20.41	20.14	20.63	
1.4	64QAM	3	0	20.31	20.17	20.40	
1.4	64QAM	3	1	20.21	20.30	20.41	
1.4	64QAM	3	3	20.31	20.27	20.63	
1.4	64QAM	6	0	19.29	19.08	19.50	21
1.4	256QAM	1	0	17.41	17.22	17.52	19
1.4	256QAM	1	3	17.40	17.30	17.64	
1.4	256QAM	1	5	17.44	17.26	17.63	
1.4	256QAM	3	0	17.24	17.10	17.53	
1.4	256QAM	3	1	17.32	17.14	17.55	
1.4	256QAM	3	3	17.37	17.25	17.59	19
1.4	256QAM	6	0	17.37	17.20	17.59	



<LTE Band 4_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	15
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	14.22	14.30	14.37	
20	QPSK	1	49	13.87	14.01	14.05	15
20	QPSK	1	99	13.77	13.95	13.97	
20	QPSK	50	0	14.06	14.21	14.20	
20	QPSK	50	24	14.08	14.18	14.19	15
20	QPSK	50	50	14.02	14.20	14.26	
20	QPSK	100	0	14.02	14.17	14.16	
20	16QAM	1	0	14.11	14.19	14.18	15
20	16QAM	1	49	13.98	14.07	14.06	
20	16QAM	1	99	14.03	14.19	14.16	
20	16QAM	50	0	14.13	14.27	14.31	15
20	16QAM	50	24	14.15	14.25	14.28	
20	16QAM	50	50	14.18	14.29	14.29	
20	16QAM	100	0	14.16	14.26	14.28	15
20	64QAM	1	0	14.01	14.17	14.17	
20	64QAM	1	49	14.00	14.14	14.13	
20	64QAM	1	99	14.08	14.22	14.20	15
20	64QAM	50	0	14.17	14.28	14.28	
20	64QAM	50	24	14.02	14.15	14.21	
20	64QAM	50	50	14.15	14.24	14.30	15
20	64QAM	100	0	14.13	14.27	14.26	
20	256QAM	1	0	13.97	14.10	14.13	
20	256QAM	1	49	13.93	14.08	14.11	15
20	256QAM	1	99	13.87	13.99	13.99	
20	256QAM	50	0	14.09	14.27	14.34	
20	256QAM	50	24	14.09	14.26	14.25	15
20	256QAM	50	50	14.06	14.24	14.25	
20	256QAM	100	0	14.15	14.24	14.25	
Channel				20025	20175	20325	15
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	14.18	14.25	14.29	
15	QPSK	1	37	13.86	13.96	13.95	15
15	QPSK	1	74	13.67	13.86	13.96	
15	QPSK	36	0	13.97	14.18	14.18	
15	QPSK	36	20	14.03	14.05	14.19	15
15	QPSK	36	39	13.94	14.14	14.22	
15	QPSK	75	0	13.93	14.09	14.22	
15	16QAM	1	0	14.05	14.04	14.22	15
15	16QAM	1	37	13.90	13.93	14.00	
15	16QAM	1	74	14.03	14.11	14.19	
15	16QAM	36	0	14.06	14.13	14.29	15
15	16QAM	36	20	14.05	14.24	14.30	
15	16QAM	36	39	14.07	14.18	14.19	
15	16QAM	75	0	14.08	14.14	14.23	15
15	64QAM	1	0	13.91	14.04	14.12	
15	64QAM	1	37	14.01	13.94	14.13	
15	64QAM	1	74	13.98	14.13	14.20	15
15	64QAM	36	0	14.05	14.14	14.26	
15	64QAM	36	20	14.03	13.99	14.12	
15	64QAM	36	39	14.12	14.09	14.11	15
15	64QAM	75	0	14.09	14.14	14.25	
15	256QAM	1	0	13.96	14.05	14.14	
15	256QAM	1	37	13.87	14.00	14.10	15
15	256QAM	1	74	13.78	13.94	13.96	
15	256QAM	36	0	14.09	14.17	14.18	
15	256QAM	36	20	14.03	14.16	14.23	15



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15	256QAM	36	39	14.12	14.12	14.20	Tune-up limit (dBm)
15	256QAM	75	0	14.12	14.12	14.14	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	14.14	14.22	14.29	15
10	QPSK	1	25	13.75	13.91	13.99	
10	QPSK	1	49	13.83	13.80	13.95	
10	QPSK	25	0	14.00	14.14	14.17	15
10	QPSK	25	12	14.01	14.05	14.15	
10	QPSK	25	25	14.10	14.06	14.08	
10	QPSK	50	0	13.94	14.10	14.11	
10	16QAM	1	0	14.07	14.07	14.23	15
10	16QAM	1	25	13.79	13.88	14.12	
10	16QAM	1	49	14.04	14.08	14.23	
10	16QAM	25	0	14.10	14.21	14.16	15
10	16QAM	25	12	14.14	14.08	14.25	
10	16QAM	25	25	14.08	14.21	14.24	
10	16QAM	50	0	14.09	14.17	14.17	
10	64QAM	1	0	13.95	14.09	14.13	15
10	64QAM	1	25	13.98	14.11	14.12	
10	64QAM	1	49	14.05	14.17	14.27	
10	64QAM	25	0	14.16	14.13	14.22	15
10	64QAM	25	12	13.96	14.07	14.04	
10	64QAM	25	25	14.05	14.18	14.19	
10	64QAM	50	0	14.13	14.21	14.24	
10	256QAM	1	0	13.83	14.05	14.07	15
10	256QAM	1	25	13.87	13.97	14.13	
10	256QAM	1	49	13.78	13.94	13.97	
10	256QAM	25	0	14.17	14.25	14.30	15
10	256QAM	25	12	14.08	14.21	14.23	
10	256QAM	25	25	14.15	14.08	14.14	
10	256QAM	50	0	13.99	14.16	14.24	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	14.19	14.26	14.34	15
5	QPSK	1	12	13.87	13.93	13.99	
5	QPSK	1	24	13.81	13.86	13.95	
5	QPSK	12	0	13.98	14.13	14.15	15
5	QPSK	12	7	13.99	14.05	14.10	
5	QPSK	12	13	14.07	14.11	14.10	
5	QPSK	25	0	13.99	14.03	14.12	
5	16QAM	1	0	13.99	14.12	14.16	15
5	16QAM	1	12	13.93	13.95	14.13	
5	16QAM	1	24	13.97	14.11	14.19	
5	16QAM	12	0	14.10	14.12	14.28	15
5	16QAM	12	7	14.07	14.13	14.16	
5	16QAM	12	13	14.08	14.20	14.20	
5	16QAM	25	0	14.02	14.24	14.28	
5	64QAM	1	0	14.00	14.15	14.18	15
5	64QAM	1	12	13.91	14.02	14.19	
5	64QAM	1	24	14.05	14.08	14.21	
5	64QAM	12	0	14.11	14.26	14.17	15
5	64QAM	12	7	13.95	14.03	14.09	
5	64QAM	12	13	14.07	14.18	14.21	
5	64QAM	25	0	14.03	14.16	14.22	
5	256QAM	1	0	13.89	14.04	14.05	15
5	256QAM	1	12	13.94	13.96	14.03	
5	256QAM	1	24	13.82	13.95	13.98	
5	256QAM	12	0	14.10	14.11	14.18	15
5	256QAM	12	7	14.10	14.19	14.19	
5	256QAM	12	13	14.01	14.17	14.26	
5	256QAM	25	0	14.09	14.17	14.23	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	14.19	14.25	14.36	15
3	QPSK	1	8	13.84	13.85	13.97	
3	QPSK	1	14	13.79	13.82	13.90	
3	QPSK	8	0	14.02	14.10	14.13	15
3	QPSK	8	4	14.02	14.07	14.20	
3	QPSK	8	7	14.04	14.04	14.11	
3	QPSK	15	0	13.90	14.09	14.08	
3	16QAM	1	0	13.99	14.06	14.22	15
3	16QAM	1	8	13.83	13.98	13.98	
3	16QAM	1	14	13.95	14.15	14.10	
3	16QAM	8	0	14.00	14.13	14.27	15
3	16QAM	8	4	14.09	14.19	14.22	
3	16QAM	8	7	14.08	14.20	14.22	
3	16QAM	15	0	14.05	14.15	14.18	
3	64QAM	1	0	13.93	14.04	14.14	15
3	64QAM	1	8	13.98	14.09	14.15	
3	64QAM	1	14	14.01	14.08	14.13	
3	64QAM	8	0	14.15	14.11	14.21	15
3	64QAM	8	4	13.94	14.08	14.16	
3	64QAM	8	7	14.03	14.14	14.16	
3	64QAM	15	0	14.05	14.18	14.25	
3	256QAM	1	0	13.89	14.05	14.06	15
3	256QAM	1	8	13.87	14.05	14.01	
3	256QAM	1	14	13.79	13.92	13.95	
3	256QAM	8	0	14.10	14.19	14.23	15
3	256QAM	8	4	14.04	14.11	14.32	
3	256QAM	8	7	13.98	14.17	14.13	
3	256QAM	15	0	14.08	14.14	14.21	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.13	14.23	14.27	15
1.4	QPSK	1	3	13.89	13.90	14.00	
1.4	QPSK	1	5	13.74	13.90	13.94	
1.4	QPSK	3	0	14.02	14.09	14.10	
1.4	QPSK	3	1	14.06	14.03	14.17	
1.4	QPSK	3	3	14.07	14.11	14.19	
1.4	QPSK	6	0	14.00	14.10	14.08	15
1.4	16QAM	1	0	14.06	14.07	14.10	15
1.4	16QAM	1	3	13.81	14.06	14.07	
1.4	16QAM	1	5	14.00	14.10	14.24	
1.4	16QAM	3	0	14.07	14.20	14.32	
1.4	16QAM	3	1	14.15	14.08	14.21	
1.4	16QAM	3	3	14.05	14.15	14.30	15
1.4	16QAM	6	0	14.13	14.17	14.18	
1.4	64QAM	1	0	14.07	14.00	14.10	15
1.4	64QAM	1	3	13.87	14.12	14.11	
1.4	64QAM	1	5	14.02	14.15	14.23	
1.4	64QAM	3	0	14.03	14.24	14.29	
1.4	64QAM	3	1	13.95	14.12	14.12	
1.4	64QAM	3	3	14.09	14.13	14.14	15
1.4	64QAM	6	0	14.08	14.14	14.18	
1.4	256QAM	1	0	13.88	14.01	14.10	15
1.4	256QAM	1	3	13.94	14.03	14.02	
1.4	256QAM	1	5	13.81	13.82	13.89	
1.4	256QAM	3	0	14.04	14.17	14.26	
1.4	256QAM	3	1	14.11	14.22	14.23	
1.4	256QAM	3	3	14.06	14.12	14.15	15
1.4	256QAM	6	0	14.06	14.11	14.25	



<LTE Band 4_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.72	20.75	20.74	
20	QPSK	1	49	20.38	20.46	20.36	21
20	QPSK	1	99	20.36	20.46	20.42	
20	QPSK	50	0	20.41	20.44	20.36	
20	QPSK	50	24	20.38	20.48	20.46	21
20	QPSK	50	50	20.49	20.54	20.45	
20	QPSK	100	0	20.45	20.52	20.49	
20	16QAM	1	0	20.67	20.70	20.60	21
20	16QAM	1	49	20.61	20.64	20.59	
20	16QAM	1	99	20.33	20.38	20.28	
20	16QAM	50	0	20.45	20.50	20.46	21
20	16QAM	50	24	20.52	20.55	20.49	
20	16QAM	50	50	20.48	20.56	20.55	
20	16QAM	100	0	20.53	20.55	20.50	21
20	64QAM	1	0	20.50	20.58	20.52	
20	64QAM	1	49	20.56	20.61	20.57	
20	64QAM	1	99	20.62	20.70	20.66	21
20	64QAM	50	0	20.19	20.26	20.19	
20	64QAM	50	24	20.23	20.28	20.21	
20	64QAM	50	50	20.26	20.32	20.29	19
20	64QAM	100	0	20.23	20.29	20.20	
20	256QAM	1	0	18.33	18.42	18.42	
20	256QAM	1	49	18.35	18.45	18.38	19
20	256QAM	1	99	18.29	18.34	18.26	
20	256QAM	50	0	18.10	18.20	18.14	
20	256QAM	50	24	18.26	18.29	18.20	19
20	256QAM	50	50	18.24	18.29	18.26	
20	256QAM	100	0	18.19	18.23	18.17	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.65	20.68	20.67	
15	QPSK	1	37	20.36	20.42	20.35	21
15	QPSK	1	74	20.36	20.38	20.35	
15	QPSK	36	0	20.35	20.44	20.27	
15	QPSK	36	20	20.36	20.48	20.41	21
15	QPSK	36	39	20.41	20.51	20.45	
15	QPSK	75	0	20.41	20.45	20.40	
15	16QAM	1	0	20.63	20.61	20.53	21
15	16QAM	1	37	20.55	20.63	20.54	
15	16QAM	1	74	20.24	20.28	20.18	
15	16QAM	36	0	20.35	20.46	20.43	21
15	16QAM	36	20	20.43	20.48	20.48	
15	16QAM	36	39	20.41	20.46	20.45	
15	16QAM	75	0	20.46	20.52	20.45	21
15	64QAM	1	0	20.45	20.54	20.46	
15	64QAM	1	37	20.56	20.59	20.50	
15	64QAM	1	74	20.59	20.67	20.62	21
15	64QAM	36	0	20.12	20.16	20.12	
15	64QAM	36	20	20.16	20.20	20.12	
15	64QAM	36	39	20.19	20.24	20.27	19
15	64QAM	75	0	20.18	20.25	20.15	
15	256QAM	1	0	18.25	18.38	18.38	
15	256QAM	1	37	18.35	18.37	18.29	19
15	256QAM	1	74	18.19	18.32	18.18	
15	256QAM	36	0	18.03	18.17	18.14	
15	256QAM	36	20	18.21	18.19	18.16	19



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15	256QAM	36	39	18.19	18.29	18.26	
15	256QAM	75	0	18.09	18.14	18.09	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.69	20.67	20.68	21
10	QPSK	1	25	20.29	20.37	20.33	
10	QPSK	1	49	20.26	20.43	20.36	
10	QPSK	25	0	20.40	20.39	20.29	21
10	QPSK	25	12	20.37	20.48	20.45	
10	QPSK	25	25	20.40	20.49	20.41	
10	QPSK	50	0	20.44	20.52	20.46	
10	16QAM	1	0	20.57	20.68	20.58	21
10	16QAM	1	25	20.56	20.60	20.56	
10	16QAM	1	49	20.30	20.37	20.26	
10	16QAM	25	0	20.38	20.46	20.37	21
10	16QAM	25	12	20.52	20.53	20.46	
10	16QAM	25	25	20.47	20.46	20.49	
10	16QAM	50	0	20.48	20.55	20.45	
10	64QAM	1	0	20.42	20.52	20.42	21
10	64QAM	1	25	20.48	20.57	20.54	
10	64QAM	1	49	20.62	20.62	20.60	
10	64QAM	25	0	20.19	20.17	20.14	21
10	64QAM	25	12	20.20	20.18	20.14	
10	64QAM	25	25	20.24	20.26	20.22	
10	64QAM	50	0	20.23	20.21	20.15	
10	256QAM	1	0	18.31	18.41	18.36	19
10	256QAM	1	25	18.28	18.35	18.37	
10	256QAM	1	49	18.20	18.26	18.25	
10	256QAM	25	0	18.03	18.19	18.13	19
10	256QAM	25	12	18.26	18.19	18.16	
10	256QAM	25	25	18.16	18.19	18.24	
10	256QAM	50	0	18.11	18.14	18.14	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.62	20.70	20.66	21
5	QPSK	1	12	20.35	20.41	20.26	
5	QPSK	1	24	20.30	20.38	20.39	
5	QPSK	12	0	20.34	20.38	20.36	21
5	QPSK	12	7	20.34	20.40	20.40	
5	QPSK	12	13	20.41	20.54	20.40	
5	QPSK	25	0	20.36	20.51	20.45	
5	16QAM	1	0	20.63	20.63	20.55	21
5	16QAM	1	12	20.55	20.60	20.51	
5	16QAM	1	24	20.27	20.35	20.19	
5	16QAM	12	0	20.37	20.43	20.46	21
5	16QAM	12	7	20.43	20.48	20.48	
5	16QAM	12	13	20.40	20.50	20.55	
5	16QAM	25	0	20.48	20.49	20.45	
5	64QAM	1	0	20.40	20.50	20.42	21
5	64QAM	1	12	20.46	20.52	20.50	
5	64QAM	1	24	20.52	20.64	20.58	
5	64QAM	12	0	20.14	20.23	20.17	21
5	64QAM	12	7	20.16	20.28	20.19	
5	64QAM	12	13	20.25	20.25	20.28	
5	64QAM	25	0	20.21	20.20	20.12	
5	256QAM	1	0	18.23	18.32	18.34	19
5	256QAM	1	12	18.30	18.44	18.36	
5	256QAM	1	24	18.29	18.29	18.21	
5	256QAM	12	0	18.06	18.14	18.13	19
5	256QAM	12	7	18.21	18.23	18.13	
5	256QAM	12	13	18.22	18.26	18.16	
5	256QAM	25	0	18.17	18.13	18.12	



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Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.66	20.69	20.70	21
3	QPSK	1	8	20.34	20.44	20.33	
3	QPSK	1	14	20.28	20.46	20.42	
3	QPSK	8	0	20.41	20.44	20.32	21
3	QPSK	8	4	20.28	20.43	20.40	
3	QPSK	8	7	20.39	20.52	20.43	
3	QPSK	15	0	20.44	20.46	20.47	
3	16QAM	1	0	20.58	20.68	20.50	21
3	16QAM	1	8	20.56	20.56	20.52	
3	16QAM	1	14	20.27	20.38	20.19	
3	16QAM	8	0	20.38	20.48	20.38	21
3	16QAM	8	4	20.44	20.45	20.45	
3	16QAM	8	7	20.45	20.49	20.55	
3	16QAM	15	0	20.45	20.45	20.47	
3	64QAM	1	0	20.47	20.54	20.45	21
3	64QAM	1	8	20.56	20.58	20.54	
3	64QAM	1	14	20.62	20.65	20.60	
3	64QAM	8	0	20.10	20.23	20.16	21
3	64QAM	8	4	20.21	20.18	20.20	
3	64QAM	8	7	20.22	20.29	20.28	
3	64QAM	15	0	20.13	20.24	20.13	
3	256QAM	1	0	18.27	18.40	18.33	19
3	256QAM	1	8	18.29	18.38	18.29	
3	256QAM	1	14	18.26	18.32	18.18	
3	256QAM	8	0	18.06	18.18	18.08	19
3	256QAM	8	4	18.24	18.28	18.19	
3	256QAM	8	7	18.16	18.22	18.26	
3	256QAM	15	0	18.11	18.13	18.07	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.65	20.70	20.71	21
1.4	QPSK	1	3	20.32	20.36	20.30	
1.4	QPSK	1	5	20.29	20.39	20.37	
1.4	QPSK	3	0	20.39	20.38	20.30	
1.4	QPSK	3	1	20.37	20.48	20.43	
1.4	QPSK	3	3	20.41	20.44	20.42	
1.4	QPSK	6	0	20.40	20.42	20.44	21
1.4	16QAM	1	0	20.63	20.67	20.57	21
1.4	16QAM	1	3	20.53	20.54	20.52	
1.4	16QAM	1	5	20.27	20.35	20.20	
1.4	16QAM	3	0	20.44	20.48	20.42	
1.4	16QAM	3	1	20.47	20.52	20.40	
1.4	16QAM	3	3	20.41	20.53	20.54	21
1.4	16QAM	6	0	20.49	20.51	20.49	
1.4	64QAM	1	0	20.48	20.58	20.42	21
1.4	64QAM	1	3	20.48	20.60	20.48	
1.4	64QAM	1	5	20.52	20.67	20.64	
1.4	64QAM	3	0	20.12	20.24	20.16	
1.4	64QAM	3	1	20.18	20.25	20.17	
1.4	64QAM	3	3	20.20	20.26	20.28	
1.4	64QAM	6	0	20.20	20.23	20.19	21
1.4	256QAM	1	0	18.30	18.41	18.33	19
1.4	256QAM	1	3	18.26	18.40	18.33	
1.4	256QAM	1	5	18.24	18.27	18.24	
1.4	256QAM	3	0	18.00	18.16	18.09	
1.4	256QAM	3	1	18.21	18.19	18.11	
1.4	256QAM	3	3	18.19	18.21	18.17	19
1.4	256QAM	6	0	18.16	18.13	18.16	



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<LTE Band 5_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.25	23.29	23.23	
10	QPSK	1	25	23.24	23.28	23.22	24.5
10	QPSK	1	49	23.25	23.22	23.15	
10	QPSK	25	0	22.34	22.30	22.24	
10	QPSK	25	12	22.42	22.29	22.31	23.5
10	QPSK	25	25	22.35	22.31	22.24	
10	QPSK	50	0	22.37	22.26	22.29	
10	16QAM	1	0	22.69	22.77	22.68	23.5
10	16QAM	1	25	22.70	22.62	22.59	
10	16QAM	1	49	22.66	22.62	22.52	
10	16QAM	25	0	21.35	21.31	21.25	22.5
10	16QAM	25	12	21.44	21.33	21.33	
10	16QAM	25	25	21.39	21.34	21.28	
10	16QAM	50	0	21.38	21.27	21.30	22.5
10	64QAM	1	0	21.61	21.57	21.48	
10	64QAM	1	25	21.58	21.53	21.48	
10	64QAM	1	49	21.49	21.48	21.43	21.5
10	64QAM	25	0	20.35	20.31	20.24	
10	64QAM	25	12	20.40	20.30	20.32	
10	64QAM	25	25	20.36	20.31	20.27	21.5
10	64QAM	50	0	20.40	20.28	20.30	
10	256QAM	1	0	18.28	18.40	18.31	
10	256QAM	1	25	18.23	18.37	18.24	19.5
10	256QAM	1	49	18.21	18.21	18.35	
10	256QAM	25	0	18.32	18.25	18.31	
10	256QAM	25	12	18.38	18.32	18.40	19.5
10	256QAM	25	25	18.30	18.21	18.31	
10	256QAM	50	0	18.30	18.25	18.29	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.27	23.23	23.18	
5	QPSK	1	12	23.15	23.13	23.23	24.5
5	QPSK	1	24	23.25	23.22	23.14	
5	QPSK	12	0	22.28	22.26	22.15	
5	QPSK	12	7	22.38	22.28	22.18	23.5
5	QPSK	12	13	22.35	22.31	22.22	
5	QPSK	25	0	22.36	22.24	22.16	
5	16QAM	1	0	22.66	22.59	22.54	23.5
5	16QAM	1	12	22.77	22.71	22.62	
5	16QAM	1	24	22.59	22.56	22.48	
5	16QAM	12	0	21.35	21.30	21.22	22.5
5	16QAM	12	7	21.45	21.33	21.24	
5	16QAM	12	13	21.41	21.36	21.24	
5	16QAM	25	0	21.38	21.26	21.18	22.5
5	64QAM	1	0	21.53	21.53	21.45	
5	64QAM	1	12	21.64	21.57	21.47	
5	64QAM	1	24	21.53	21.45	21.43	21.5
5	64QAM	12	0	20.35	20.29	20.21	
5	64QAM	12	7	20.43	20.31	20.22	
5	64QAM	12	13	20.37	20.35	20.26	21.5
5	64QAM	25	0	20.39	20.26	20.17	
5	256QAM	1	0	18.38	18.49	18.30	
5	256QAM	1	12	18.32	18.39	18.28	19.5
5	256QAM	1	24	18.16	18.11	18.45	
5	256QAM	12	0	18.42	18.21	18.21	
5	256QAM	12	7	18.31	18.26	18.37	19.5
5	256QAM	12	13	18.24	18.21	18.34	
5	256QAM	25	0	18.20	18.17	18.39	



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Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.14	23.22	23.03	24.5
3	QPSK	1	8	23.04	23.18	23.22	
3	QPSK	1	14	23.13	23.18	22.95	
3	QPSK	8	0	22.23	22.15	22.12	23.5
3	QPSK	8	4	22.28	22.23	22.26	
3	QPSK	8	7	22.29	22.16	22.10	
3	QPSK	15	0	22.34	22.19	22.16	23.5
3	16QAM	1	0	22.65	22.62	22.58	
3	16QAM	1	8	22.68	22.49	22.50	
3	16QAM	1	14	22.47	22.59	22.43	22.5
3	16QAM	8	0	21.23	21.30	21.21	
3	16QAM	8	4	21.36	21.20	21.25	
3	16QAM	8	7	21.38	21.19	21.12	22.5
3	16QAM	15	0	21.29	21.23	21.20	
3	64QAM	1	0	21.41	21.47	21.46	
3	64QAM	1	8	21.40	21.52	21.45	22.5
3	64QAM	1	14	21.39	21.42	21.32	
3	64QAM	8	0	20.21	20.22	20.17	
3	64QAM	8	4	20.36	20.15	20.16	21.5
3	64QAM	8	7	20.22	20.11	20.14	
3	64QAM	15	0	20.33	20.13	20.30	
3	256QAM	1	0	18.27	18.31	18.23	19.5
3	256QAM	1	8	18.07	18.28	18.20	
3	256QAM	1	14	18.03	18.03	18.28	
3	256QAM	8	0	18.23	18.09	18.27	19.5
3	256QAM	8	4	18.32	18.19	18.37	
3	256QAM	8	7	18.10	18.11	18.19	
3	256QAM	15	0	18.20	18.20	18.13	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.18	23.19	23.12	24.5
1.4	QPSK	1	3	23.16	23.20	23.22	
1.4	QPSK	1	5	23.06	23.13	23.10	
1.4	QPSK	3	0	23.14	23.17	23.18	23.5
1.4	QPSK	3	1	23.06	23.21	23.09	
1.4	QPSK	3	3	23.19	23.13	22.98	
1.4	QPSK	6	0	22.22	22.24	22.05	23.5
1.4	16QAM	1	0	22.41	22.13	22.15	23.5
1.4	16QAM	1	3	22.18	22.29	22.19	
1.4	16QAM	1	5	22.25	22.25	22.10	
1.4	16QAM	3	0	22.58	22.74	22.57	22.5
1.4	16QAM	3	1	22.69	22.47	22.52	
1.4	16QAM	3	3	22.60	22.45	22.51	
1.4	16QAM	6	0	21.15	21.18	21.08	22.5
1.4	64QAM	1	0	21.25	21.25	21.15	22.5
1.4	64QAM	1	3	21.26	21.18	21.17	
1.4	64QAM	1	5	21.38	21.25	21.22	
1.4	64QAM	3	0	21.60	21.53	21.48	22.5
1.4	64QAM	3	1	21.38	21.41	21.32	
1.4	64QAM	3	3	21.40	21.35	21.32	
1.4	64QAM	6	0	20.24	20.20	20.23	21.5
1.4	256QAM	1	0	18.17	18.17	18.11	19.5
1.4	256QAM	1	3	18.05	18.13	18.18	
1.4	256QAM	1	5	18.27	18.32	18.33	
1.4	256QAM	3	0	18.31	18.36	18.38	19.5
1.4	256QAM	3	1	18.38	18.34	18.37	
1.4	256QAM	3	3	18.25	18.22	18.21	
1.4	256QAM	6	0	18.32	18.23	18.26	19.5



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 7_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.84	22.92	22.98	
20	QPSK	1	49	22.63	22.67	22.54	24
20	QPSK	1	99	22.66	22.60	22.49	
20	QPSK	50	0	21.23	21.60	21.57	
20	QPSK	50	24	21.38	21.69	21.73	23
20	QPSK	50	50	21.39	21.71	21.68	
20	QPSK	100	0	21.42	21.62	21.67	
20	16QAM	1	0	21.59	21.87	22.06	23
20	16QAM	1	49	21.69	22.03	22.03	
20	16QAM	1	99	21.91	21.99	21.90	
20	16QAM	50	0	20.36	20.63	20.73	22
20	16QAM	50	24	20.47	20.75	20.68	
20	16QAM	50	50	20.42	20.65	20.77	
20	16QAM	100	0	20.39	20.70	20.75	22
20	64QAM	1	0	20.89	21.03	20.96	
20	64QAM	1	49	20.70	21.12	20.89	
20	64QAM	1	99	20.82	20.80	20.62	21
20	64QAM	50	0	19.33	19.65	19.77	
20	64QAM	50	24	19.46	19.62	19.77	
20	64QAM	50	50	19.46	19.70	19.73	21
20	64QAM	100	0	19.39	19.75	19.64	
20	256QAM	1	0	18.20	18.27	18.21	19
20	256QAM	1	49	18.32	18.21	18.34	
20	256QAM	1	99	18.26	18.33	18.33	
20	256QAM	50	0	18.37	18.20	18.38	19
20	256QAM	50	24	18.32	18.30	18.34	
20	256QAM	50	50	18.30	18.37	18.31	
20	256QAM	100	0	18.29	18.31	18.38	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.09	22.49	22.49	
15	QPSK	1	37	22.24	22.62	22.61	24
15	QPSK	1	74	22.28	22.64	22.53	
15	QPSK	36	0	21.21	21.61	21.66	23
15	QPSK	36	20	21.37	21.68	21.69	
15	QPSK	36	39	21.39	21.67	21.60	
15	QPSK	75	0	21.33	21.65	21.71	23
15	16QAM	1	0	21.37	21.88	21.81	
15	16QAM	1	37	21.65	22.02	21.93	
15	16QAM	1	74	21.61	21.91	21.83	22
15	16QAM	36	0	20.23	20.64	20.67	
15	16QAM	36	20	20.37	20.68	20.72	
15	16QAM	36	39	20.38	20.70	20.65	22
15	16QAM	75	0	20.38	20.67	20.71	
15	64QAM	1	0	20.31	20.71	20.76	
15	64QAM	1	37	20.50	20.85	20.83	21
15	64QAM	1	74	20.54	20.92	20.77	
15	64QAM	36	0	19.21	19.59	19.65	
15	64QAM	36	20	19.34	19.68	19.70	19
15	64QAM	36	39	19.37	19.67	19.63	
15	64QAM	75	0	19.36	19.65	19.70	
15	256QAM	1	0	18.33	18.22	18.35	19
15	256QAM	1	37	18.36	18.37	18.38	
15	256QAM	1	74	18.25	18.29	18.34	
15	256QAM	36	0	18.38	18.31	18.22	19
15	256QAM	36	20	18.21	18.30	18.37	
15	256QAM	36	39	18.36	18.22	18.34	
15	256QAM	75	0	18.39	18.33	18.39	



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Report No. : FA3N0842

Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.25	22.69	22.68	24
10	QPSK	1	25	22.41	22.84	22.79	
10	QPSK	1	49	22.41	22.80	22.72	
10	QPSK	25	0	21.33	21.74	21.78	23
10	QPSK	25	12	21.46	21.81	21.82	
10	QPSK	25	25	21.45	21.79	21.81	
10	QPSK	50	0	21.42	21.78	21.77	23
10	16QAM	1	0	21.69	22.07	22.09	
10	16QAM	1	25	21.80	22.22	22.16	
10	16QAM	1	49	21.82	22.22	22.14	22
10	16QAM	25	0	20.34	20.75	20.79	
10	16QAM	25	12	20.47	20.81	20.85	
10	16QAM	25	25	20.47	20.81	20.82	22
10	16QAM	50	0	20.40	20.79	20.79	
10	64QAM	1	0	20.52	20.96	20.92	
10	64QAM	1	25	20.66	21.04	21.09	22
10	64QAM	1	49	20.66	21.07	21.01	
10	64QAM	25	0	19.32	19.75	19.79	
10	64QAM	25	12	19.45	19.81	19.81	21
10	64QAM	25	25	19.47	19.81	19.81	
10	64QAM	50	0	19.42	19.77	19.79	
10	256QAM	1	0	18.26	18.35	18.30	19
10	256QAM	1	25	18.40	18.26	18.35	
10	256QAM	1	49	18.25	18.30	18.21	
10	256QAM	25	0	18.35	18.27	18.39	19
10	256QAM	25	12	18.37	18.32	18.30	
10	256QAM	25	25	18.39	18.27	18.29	
10	256QAM	50	0	18.30	18.34	18.33	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.26	22.73	22.69	24
5	QPSK	1	12	22.38	22.85	22.76	
5	QPSK	1	24	22.35	22.76	22.72	
5	QPSK	12	0	21.29	21.72	21.75	23
5	QPSK	12	7	21.40	21.77	21.80	
5	QPSK	12	13	21.40	21.75	21.77	
5	QPSK	25	0	21.36	21.73	21.75	23
5	16QAM	1	0	21.76	22.12	22.08	
5	16QAM	1	12	21.83	22.26	22.20	
5	16QAM	1	24	21.76	22.14	22.15	22
5	16QAM	12	0	20.33	20.77	20.80	
5	16QAM	12	7	20.46	20.81	20.84	
5	16QAM	12	13	20.44	20.80	20.86	22
5	16QAM	25	0	20.39	20.76	20.77	
5	64QAM	1	0	20.53	21.00	21.00	
5	64QAM	1	12	20.64	21.08	21.05	22
5	64QAM	1	24	20.63	20.97	21.02	
5	64QAM	12	0	19.29	19.76	19.77	
5	64QAM	12	7	19.42	19.81	19.81	21
5	64QAM	12	13	19.43	19.80	19.82	
5	64QAM	25	0	19.36	19.74	19.76	
5	256QAM	1	0	18.26	18.32	18.29	19
5	256QAM	1	12	18.37	18.34	18.33	
5	256QAM	1	24	18.28	18.21	18.30	
5	256QAM	12	0	18.30	18.40	18.36	19
5	256QAM	12	7	18.28	18.26	18.30	
5	256QAM	12	13	18.22	18.27	18.22	
5	256QAM	25	0	18.22	18.37	18.32	



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Report No. : FA3N0842

<LTE Band 7_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.72	22.97	23.07	
20	QPSK	1	49	22.91	22.75	22.92	24
20	QPSK	1	99	22.29	22.21	22.40	
20	QPSK	50	0	22.04	22.05	22.10	
20	QPSK	50	24	22.02	21.96	22.05	23
20	QPSK	50	50	21.89	22.03	22.08	
20	QPSK	100	0	21.96	21.86	21.98	
20	16QAM	1	0	21.87	21.92	21.98	23
20	16QAM	1	49	21.97	21.98	22.01	
20	16QAM	1	99	21.90	21.81	21.95	
20	16QAM	50	0	21.03	21.00	21.04	22
20	16QAM	50	24	21.07	21.00	21.07	
20	16QAM	50	50	21.11	21.02	21.13	
20	16QAM	100	0	21.00	21.00	21.02	22
20	64QAM	1	0	20.93	20.91	21.11	
20	64QAM	1	49	21.03	21.06	21.08	
20	64QAM	1	99	20.98	20.97	21.07	21
20	64QAM	50	0	19.88	19.76	19.94	
20	64QAM	50	24	19.95	19.94	19.99	
20	64QAM	50	50	19.91	19.96	20.06	19
20	64QAM	100	0	19.78	19.89	19.97	
20	256QAM	1	0	18.13	18.08	18.20	
20	256QAM	1	49	18.17	18.16	18.25	19
20	256QAM	1	99	18.25	18.29	18.30	
20	256QAM	50	0	17.99	17.83	18.02	
20	256QAM	50	24	18.05	18.02	18.15	19
20	256QAM	50	50	18.10	18.06	18.16	
20	256QAM	100	0	17.87	17.97	17.98	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.71	22.88	23.04	
15	QPSK	1	37	22.86	22.75	22.82	24
15	QPSK	1	74	22.31	22.18	22.34	
15	QPSK	36	0	21.89	21.79	21.90	
15	QPSK	36	20	22.04	21.87	21.96	23
15	QPSK	36	39	21.99	21.98	22.07	
15	QPSK	75	0	21.90	21.78	21.89	
15	16QAM	1	0	21.90	21.83	21.89	23
15	16QAM	1	37	21.94	21.95	21.92	
15	16QAM	1	74	21.85	21.73	21.89	
15	16QAM	36	0	21.02	20.93	21.02	22
15	16QAM	36	20	21.05	20.98	21.00	
15	16QAM	36	39	21.09	21.02	21.10	
15	16QAM	75	0	20.97	20.99	20.96	22
15	64QAM	1	0	21.01	20.83	21.09	
15	64QAM	1	37	21.01	21.01	21.08	
15	64QAM	1	74	21.06	20.90	20.98	21
15	64QAM	36	0	19.92	19.73	19.89	
15	64QAM	36	20	19.89	19.93	19.89	
15	64QAM	36	39	20.02	19.95	20.06	19
15	64QAM	75	0	19.92	19.83	19.92	
15	256QAM	1	0	18.17	17.99	18.13	
15	256QAM	1	37	18.18	18.11	18.20	19
15	256QAM	1	74	18.24	18.25	18.27	
15	256QAM	36	0	18.02	17.75	17.94	
15	256QAM	36	20	18.05	18.11	18.13	19
15	256QAM	36	39	18.08	17.98	18.07	
15	256QAM	75	0	17.91	17.91	17.92	



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Report No. : FA3N0842

Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.63	22.96	23.01	24
10	QPSK	1	25	22.92	22.72	22.90	
10	QPSK	1	49	22.30	22.15	22.33	
10	QPSK	25	0	21.95	21.80	21.96	23
10	QPSK	25	12	22.03	21.91	22.03	
10	QPSK	25	25	22.01	21.93	22.00	
10	QPSK	50	0	21.96	21.77	21.89	23
10	16QAM	1	0	21.97	21.90	21.96	
10	16QAM	1	25	21.96	21.88	21.91	
10	16QAM	1	49	21.90	21.71	21.92	22
10	16QAM	25	0	21.03	20.99	21.00	
10	16QAM	25	12	20.97	20.94	20.97	
10	16QAM	25	25	21.04	21.02	21.11	22
10	16QAM	50	0	21.00	20.92	20.97	
10	64QAM	1	0	21.11	20.91	21.07	
10	64QAM	1	25	20.99	21.05	21.03	22
10	64QAM	1	49	21.04	20.94	21.00	
10	64QAM	25	0	19.88	19.69	19.92	
10	64QAM	25	12	19.95	19.87	19.92	21
10	64QAM	25	25	19.97	19.89	20.06	
10	64QAM	50	0	19.95	19.83	19.97	
10	256QAM	1	0	18.11	18.06	18.17	19
10	256QAM	1	25	18.23	18.11	18.16	
10	256QAM	1	49	18.22	18.25	18.28	
10	256QAM	25	0	17.98	17.78	17.96	19
10	256QAM	25	12	18.12	18.08	18.11	
10	256QAM	25	25	18.15	17.97	18.16	
10	256QAM	50	0	17.88	17.94	17.97	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.66	22.88	23.00	24
5	QPSK	1	12	22.88	22.74	22.83	
5	QPSK	1	24	22.34	22.11	22.34	
5	QPSK	12	0	21.86	21.84	21.88	23
5	QPSK	12	7	22.00	21.94	22.03	
5	QPSK	12	13	22.02	21.96	21.98	
5	QPSK	25	0	21.96	21.78	21.90	23
5	16QAM	1	0	21.93	21.85	21.97	
5	16QAM	1	12	21.95	21.91	22.00	
5	16QAM	1	24	21.93	21.78	21.95	22
5	16QAM	12	0	20.96	20.95	21.03	
5	16QAM	12	7	21.00	20.96	21.03	
5	16QAM	12	13	21.08	20.96	21.11	22
5	16QAM	25	0	20.98	21.00	20.95	
5	64QAM	1	0	21.09	20.85	21.10	
5	64QAM	1	12	21.08	21.06	20.98	22
5	64QAM	1	24	21.02	20.94	21.03	
5	64QAM	12	0	19.88	19.68	19.91	
5	64QAM	12	7	19.92	19.84	19.93	21
5	64QAM	12	13	19.99	19.95	19.98	
5	64QAM	25	0	19.89	19.79	19.90	
5	256QAM	1	0	18.18	18.01	18.15	19
5	256QAM	1	12	18.25	18.11	18.19	
5	256QAM	1	24	18.25	18.23	18.21	
5	256QAM	12	0	17.94	17.80	17.97	19
5	256QAM	12	7	18.12	18.12	18.06	
5	256QAM	12	13	18.13	18.06	18.06	
5	256QAM	25	0	17.94	17.92	17.89	



<LTE Band 7_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	12.51	12.72	12.95	
20	QPSK	1	49	12.26	12.48	12.76	13
20	QPSK	1	99	12.16	12.35	12.64	
20	QPSK	50	0	12.35	12.49	12.62	
20	QPSK	50	24	12.32	12.45	12.60	13
20	QPSK	50	50	12.18	12.41	12.57	
20	QPSK	100	0	12.14	12.40	12.65	
20	16QAM	1	0	12.22	12.47	12.72	13
20	16QAM	1	49	11.84	12.13	12.38	
20	16QAM	1	99	11.82	12.08	12.34	
20	16QAM	50	0	12.13	12.33	12.63	13
20	16QAM	50	24	12.20	12.41	12.71	
20	16QAM	50	50	12.36	12.57	12.87	
20	16QAM	100	0	12.20	12.45	12.72	13
20	64QAM	1	0	12.16	12.37	12.63	
20	64QAM	1	49	12.13	12.38	12.62	
20	64QAM	1	99	11.88	12.16	12.39	13
20	64QAM	50	0	11.84	12.07	12.38	
20	64QAM	50	24	12.11	12.32	12.61	
20	64QAM	50	50	12.19	12.46	12.73	13
20	64QAM	100	0	12.39	12.58	12.86	
20	256QAM	1	0	12.18	12.41	12.70	
20	256QAM	1	49	12.17	12.42	12.69	13
20	256QAM	1	99	12.03	12.32	12.56	
20	256QAM	50	0	12.42	12.62	12.87	
20	256QAM	50	24	12.14	12.34	12.64	13
20	256QAM	50	50	12.24	12.44	12.68	
20	256QAM	100	0	12.01	12.25	12.54	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	12.47	12.71	12.93	
15	QPSK	1	37	12.26	12.49	12.68	13
15	QPSK	1	74	12.19	12.33	12.55	
15	QPSK	36	0	12.08	12.24	12.46	
15	QPSK	36	20	12.23	12.37	12.75	13
15	QPSK	36	39	12.10	12.35	12.62	
15	QPSK	75	0	12.13	12.28	12.61	
15	16QAM	1	0	12.16	12.36	12.65	13
15	16QAM	1	37	11.86	12.13	12.35	
15	16QAM	1	74	11.78	12.10	12.28	
15	16QAM	36	0	12.02	12.30	12.57	13
15	16QAM	36	20	12.15	12.39	12.66	
15	16QAM	36	39	12.24	12.48	12.75	
15	16QAM	75	0	12.16	12.35	12.59	13
15	64QAM	1	0	12.10	12.29	12.51	
15	64QAM	1	37	12.02	12.21	12.50	
15	64QAM	1	74	11.88	12.07	12.34	13
15	64QAM	36	0	11.83	12.05	12.26	
15	64QAM	36	20	12.04	12.27	12.53	
15	64QAM	36	39	12.20	12.39	12.67	13
15	64QAM	75	0	12.29	12.57	12.74	
15	256QAM	1	0	12.15	12.34	12.57	
15	256QAM	1	37	12.14	12.37	12.61	13
15	256QAM	1	74	12.03	12.14	12.42	
15	256QAM	36	0	12.34	12.52	12.70	
15	256QAM	36	20	12.17	12.27	12.49	13
15	256QAM	36	39	12.05	12.34	12.57	
15	256QAM	75	0	12.10	12.25	12.42	



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Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	12.41	12.62	12.94	13
10	QPSK	1	25	12.20	12.46	12.67	
10	QPSK	1	49	12.11	12.28	12.50	
10	QPSK	25	0	12.11	12.24	12.48	13
10	QPSK	25	12	12.22	12.42	12.60	
10	QPSK	25	25	12.20	12.31	12.62	
10	QPSK	50	0	12.02	12.38	12.52	13
10	16QAM	1	0	12.25	12.37	12.69	
10	16QAM	1	25	11.75	12.06	12.29	
10	16QAM	1	49	11.75	11.99	12.17	13
10	16QAM	25	0	12.08	12.28	12.47	
10	16QAM	25	12	12.23	12.39	12.58	
10	16QAM	25	25	12.34	12.53	12.77	13
10	16QAM	50	0	12.22	12.34	12.60	
10	64QAM	1	0	12.11	12.33	12.55	
10	64QAM	1	25	12.17	12.27	12.47	13
10	64QAM	1	49	11.95	12.07	12.27	
10	64QAM	25	0	11.87	12.05	12.30	
10	64QAM	25	12	12.00	12.31	12.41	13
10	64QAM	25	25	12.18	12.50	12.63	
10	64QAM	50	0	12.32	12.50	12.70	
10	256QAM	1	0	12.19	12.35	12.55	13
10	256QAM	1	25	12.10	12.34	12.53	
10	256QAM	1	49	12.00	12.17	12.49	
10	256QAM	25	0	12.38	12.50	12.72	13
10	256QAM	25	12	12.05	12.28	12.53	
10	256QAM	25	25	12.13	12.34	12.56	
10	256QAM	50	0	12.00	12.21	12.36	Tune-up limit (dBm)
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	12.46	12.67	12.93	
5	QPSK	1	12	12.24	12.44	12.66	13
5	QPSK	1	24	12.12	12.30	12.55	
5	QPSK	12	0	12.08	12.33	12.51	
5	QPSK	12	7	12.19	12.38	12.66	13
5	QPSK	12	13	12.13	12.31	12.59	
5	QPSK	25	0	12.11	12.35	12.50	
5	16QAM	1	0	12.16	12.43	12.61	13
5	16QAM	1	12	11.93	12.15	12.25	
5	16QAM	1	24	11.79	11.98	12.19	
5	16QAM	12	0	12.04	12.26	12.59	13
5	16QAM	12	7	12.13	12.34	12.63	
5	16QAM	12	13	12.41	12.47	12.79	
5	16QAM	25	0	12.14	12.47	12.60	13
5	64QAM	1	0	12.11	12.32	12.58	
5	64QAM	1	12	12.09	12.26	12.44	
5	64QAM	1	24	11.82	12.02	12.33	13
5	64QAM	12	0	11.84	12.07	12.29	
5	64QAM	12	7	12.12	12.23	12.56	
5	64QAM	12	13	12.21	12.47	12.66	13
5	64QAM	25	0	12.27	12.49	12.82	
5	256QAM	1	0	12.14	12.40	12.60	
5	256QAM	1	12	12.22	12.37	12.60	13
5	256QAM	1	24	11.93	12.20	12.48	
5	256QAM	12	0	12.32	12.49	12.80	
5	256QAM	12	7	12.19	12.34	12.56	13
5	256QAM	12	13	12.10	12.31	12.50	
5	256QAM	25	0	11.98	12.15	12.36	



<LTE Band 7_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	19.26	19.46	19.47	
20	QPSK	1	49	19.25	19.45	19.46	19.5
20	QPSK	1	99	19.21	19.43	19.37	
20	QPSK	50	0	19.17	19.39	19.45	
20	QPSK	50	24	19.21	19.40	19.45	19.5
20	QPSK	50	50	19.26	19.41	19.40	
20	QPSK	100	0	19.23	19.42	19.44	
20	16QAM	1	0	19.16	19.38	19.42	19.5
20	16QAM	1	49	19.25	19.41	19.39	
20	16QAM	1	99	19.25	19.44	19.40	
20	16QAM	50	0	19.17	19.43	19.41	19.5
20	16QAM	50	24	19.19	19.39	19.44	
20	16QAM	50	50	19.17	19.38	19.40	
20	16QAM	100	0	19.24	19.36	19.44	19.5
20	64QAM	1	0	19.25	19.38	19.37	
20	64QAM	1	49	19.22	19.41	19.39	
20	64QAM	1	99	19.18	19.37	19.46	19.5
20	64QAM	50	0	19.18	19.42	19.43	
20	64QAM	50	24	19.23	19.46	19.43	
20	64QAM	50	50	19.23	19.39	19.43	19.5
20	64QAM	100	0	19.21	19.39	19.40	
20	256QAM	1	0	18.09	18.06	18.13	
20	256QAM	1	49	18.11	18.07	18.16	19
20	256QAM	1	99	18.19	18.20	18.24	
20	256QAM	50	0	17.91	17.78	17.99	
20	256QAM	50	24	18.02	17.96	18.09	19
20	256QAM	50	50	18.00	17.96	18.14	
20	256QAM	100	0	17.86	17.91	17.92	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.19	19.42	19.38	
15	QPSK	1	37	19.18	19.43	19.45	19.5
15	QPSK	1	74	19.14	19.41	19.35	
15	QPSK	36	0	19.08	19.36	19.36	
15	QPSK	36	20	19.19	19.34	19.42	19.5
15	QPSK	36	39	19.22	19.38	19.32	
15	QPSK	75	0	19.19	19.42	19.44	
15	16QAM	1	0	19.15	19.28	19.42	19.5
15	16QAM	1	37	19.15	19.40	19.39	
15	16QAM	1	74	19.16	19.39	19.33	
15	16QAM	36	0	19.16	19.41	19.35	19.5
15	16QAM	36	20	19.12	19.29	19.39	
15	16QAM	36	39	19.16	19.31	19.30	
15	16QAM	75	0	19.20	19.36	19.38	19.5
15	64QAM	1	0	19.24	19.29	19.29	
15	64QAM	1	37	19.13	19.36	19.30	
15	64QAM	1	74	19.16	19.30	19.36	19.5
15	64QAM	36	0	19.08	19.34	19.42	
15	64QAM	36	20	19.13	19.44	19.34	
15	64QAM	36	39	19.23	19.34	19.35	19
15	64QAM	75	0	19.15	19.35	19.37	
15	256QAM	1	0	18.07	17.98	18.08	
15	256QAM	1	37	18.01	17.97	18.14	19
15	256QAM	1	74	18.15	18.13	18.19	
15	256QAM	36	0	17.83	17.76	17.97	
15	256QAM	36	20	17.96	17.90	18.01	19
15	256QAM	36	39	17.93	17.92	18.06	
15	256QAM	75	0	17.85	17.91	17.87	



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Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.21	19.39	19.45	19.5
10	QPSK	1	25	19.20	19.45	19.41	
10	QPSK	1	49	19.20	19.33	19.27	
10	QPSK	25	0	19.11	19.29	19.35	19.5
10	QPSK	25	12	19.16	19.40	19.43	
10	QPSK	25	25	19.21	19.33	19.32	
10	QPSK	50	0	19.23	19.40	19.44	19.5
10	16QAM	1	0	19.16	19.38	19.36	
10	16QAM	1	25	19.17	19.33	19.31	
10	16QAM	1	49	19.19	19.43	19.34	19.5
10	16QAM	25	0	19.09	19.43	19.32	
10	16QAM	25	12	19.09	19.33	19.39	
10	16QAM	25	25	19.17	19.34	19.30	19.5
10	16QAM	50	0	19.15	19.28	19.34	
10	64QAM	1	0	19.17	19.30	19.29	
10	64QAM	1	25	19.18	19.41	19.39	19.5
10	64QAM	1	49	19.16	19.35	19.46	
10	64QAM	25	0	19.10	19.36	19.33	
10	64QAM	25	12	19.20	19.36	19.37	19.5
10	64QAM	25	25	19.15	19.31	19.42	
10	64QAM	50	0	19.17	19.32	19.32	
10	256QAM	1	0	18.05	18.06	18.11	19
10	256QAM	1	25	18.03	18.00	18.10	
10	256QAM	1	49	18.14	18.15	18.20	
10	256QAM	25	0	17.87	17.74	17.95	19
10	256QAM	25	12	17.99	17.89	18.09	
10	256QAM	25	25	17.90	17.96	18.14	
10	256QAM	50	0	17.77	17.91	17.84	19
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	19.23	19.36	19.46	19.5
5	QPSK	1	12	19.23	19.43	19.36	
5	QPSK	1	24	19.21	19.37	19.36	
5	QPSK	12	0	19.11	19.39	19.41	19.5
5	QPSK	12	7	19.17	19.34	19.40	
5	QPSK	12	13	19.20	19.31	19.33	
5	QPSK	25	0	19.19	19.38	19.43	19.5
5	16QAM	1	0	19.15	19.33	19.34	
5	16QAM	1	12	19.18	19.33	19.34	
5	16QAM	1	24	19.16	19.37	19.35	19.5
5	16QAM	12	0	19.14	19.34	19.31	
5	16QAM	12	7	19.17	19.32	19.39	
5	16QAM	12	13	19.12	19.28	19.38	19.5
5	16QAM	25	0	19.20	19.27	19.44	
5	64QAM	1	0	19.23	19.34	19.34	
5	64QAM	1	12	19.22	19.33	19.31	19.5
5	64QAM	1	24	19.10	19.35	19.44	
5	64QAM	12	0	19.17	19.33	19.36	
5	64QAM	12	7	19.17	19.37	19.39	19.5
5	64QAM	12	13	19.20	19.30	19.36	
5	64QAM	25	0	19.21	19.33	19.36	
5	256QAM	1	0	18.00	18.04	18.12	19
5	256QAM	1	12	18.01	17.98	18.08	
5	256QAM	1	24	18.15	18.12	18.15	
5	256QAM	12	0	17.82	17.77	17.93	19
5	256QAM	12	7	18.00	17.95	18.05	
5	256QAM	12	13	17.93	17.87	18.14	
5	256QAM	25	0	17.76	17.85	17.82	19
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 12_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.19	23.22	23.20	
10	QPSK	1	25	23.13	23.13	23.12	24.5
10	QPSK	1	49	23.18	23.19	23.17	
10	QPSK	25	0	22.21	22.23	22.22	
10	QPSK	25	12	22.20	22.15	22.14	23.5
10	QPSK	25	25	22.21	22.21	22.21	
10	QPSK	50	0	22.18	22.21	22.10	
10	16QAM	1	0	22.42	22.39	22.41	23.5
10	16QAM	1	25	22.51	22.51	22.43	
10	16QAM	1	49	22.66	22.61	22.62	
10	16QAM	25	0	21.11	21.12	21.11	22.5
10	16QAM	25	12	21.22	21.16	21.15	
10	16QAM	25	25	21.22	21.22	21.23	
10	16QAM	50	0	21.19	21.12	21.13	22.5
10	64QAM	1	0	21.24	21.29	21.24	
10	64QAM	1	25	21.39	21.37	21.38	
10	64QAM	1	49	21.44	21.42	21.42	21.5
10	64QAM	25	0	20.10	20.09	20.11	
10	64QAM	25	12	20.22	20.12	20.14	
10	64QAM	25	25	20.20	20.20	20.22	19.5
10	64QAM	50	0	20.18	20.10	20.13	
10	256QAM	1	0	18.37	18.26	18.23	
10	256QAM	1	25	18.28	18.26	18.37	19.5
10	256QAM	1	49	18.24	18.39	18.33	
10	256QAM	25	0	18.28	18.30	18.35	
10	256QAM	25	12	18.22	18.29	18.27	19.5
10	256QAM	25	25	18.29	18.25	18.31	
10	256QAM	50	0	18.37	18.33	18.33	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.01	23.04	23.10	
5	QPSK	1	12	23.16	23.16	23.21	24.5
5	QPSK	1	24	23.07	23.08	23.15	
5	QPSK	12	0	22.07	22.09	22.11	
5	QPSK	12	7	22.19	22.21	22.22	23.5
5	QPSK	12	13	22.17	22.17	22.22	
5	QPSK	25	0	22.15	22.10	22.19	
5	16QAM	1	0	22.36	22.45	22.46	23.5
5	16QAM	1	12	22.57	22.64	22.62	
5	16QAM	1	24	22.42	22.47	22.47	
5	16QAM	12	0	21.10	21.13	21.17	22.5
5	16QAM	12	7	21.24	21.25	21.29	
5	16QAM	12	13	21.23	21.22	21.26	
5	16QAM	25	0	21.16	21.12	21.22	22.5
5	64QAM	1	0	21.32	21.28	21.41	
5	64QAM	1	12	21.39	21.44	21.46	
5	64QAM	1	24	21.38	21.34	21.38	21.5
5	64QAM	12	0	20.10	20.10	20.13	
5	64QAM	12	7	20.18	20.26	20.26	
5	64QAM	12	13	20.19	20.21	20.25	19.5
5	64QAM	25	0	20.16	20.11	20.22	
5	256QAM	1	0	18.39	18.24	18.38	
5	256QAM	1	12	18.21	18.26	18.26	19.5
5	256QAM	1	24	18.37	18.21	18.25	
5	256QAM	12	0	18.40	18.23	18.29	
5	256QAM	12	7	18.25	18.25	18.33	19.5
5	256QAM	12	13	18.23	18.23	18.35	
5	256QAM	25	0	18.34	18.40	18.30	



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Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.06	23.06	23.10	24.5
3	QPSK	1	8	23.03	23.09	22.95	
3	QPSK	1	14	23.03	23.18	23.11	
3	QPSK	8	0	21.92	21.92	21.95	23.5
3	QPSK	8	4	22.09	22.12	22.01	
3	QPSK	8	7	22.08	22.14	22.03	
3	QPSK	15	0	22.09	22.04	22.09	23.5
3	16QAM	1	0	22.35	22.39	22.28	
3	16QAM	1	8	22.38	22.51	22.35	
3	16QAM	1	14	22.58	22.45	22.47	22.5
3	16QAM	8	0	21.08	21.05	21.07	
3	16QAM	8	4	21.22	20.97	21.10	
3	16QAM	8	7	21.04	21.06	21.20	22.5
3	16QAM	15	0	21.17	21.10	21.07	
3	64QAM	1	0	21.22	21.24	21.09	
3	64QAM	1	8	21.36	21.36	21.31	22.5
3	64QAM	1	14	21.27	21.25	21.40	
3	64QAM	8	0	19.96	19.93	19.97	
3	64QAM	8	4	20.08	20.09	20.01	21.5
3	64QAM	8	7	20.16	20.08	20.19	
3	64QAM	15	0	20.17	19.91	19.94	
3	256QAM	1	0	18.39	18.33	18.38	19.5
3	256QAM	1	8	18.27	18.20	18.22	
3	256QAM	1	14	18.20	18.24	18.37	
3	256QAM	8	0	18.38	18.25	18.28	19.5
3	256QAM	8	4	18.20	18.25	18.35	
3	256QAM	8	7	18.38	18.34	18.25	
3	256QAM	15	0	18.26	18.36	18.34	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.13	23.16	23.20	24.5
1.4	QPSK	1	3	23.11	23.02	23.07	
1.4	QPSK	1	5	23.03	23.05	22.99	
1.4	QPSK	3	0	23.08	23.09	23.09	
1.4	QPSK	3	1	23.13	23.08	23.12	
1.4	QPSK	3	3	23.09	23.14	23.16	
1.4	QPSK	6	0	21.93	22.02	22.02	23.5
1.4	16QAM	1	0	22.21	22.14	21.95	23.5
1.4	16QAM	1	3	22.07	22.13	22.13	
1.4	16QAM	1	5	22.08	21.91	21.92	
1.4	16QAM	3	0	22.24	22.23	22.33	
1.4	16QAM	3	1	22.38	22.42	22.39	
1.4	16QAM	3	3	22.49	22.43	22.61	
1.4	16QAM	6	0	21.05	20.97	21.03	22.5
1.4	64QAM	1	0	21.02	21.03	21.08	22.5
1.4	64QAM	1	3	21.05	21.13	21.18	
1.4	64QAM	1	5	21.04	21.07	20.96	
1.4	64QAM	3	0	21.17	21.27	21.10	
1.4	64QAM	3	1	21.39	21.19	21.30	
1.4	64QAM	3	3	21.39	21.41	21.40	
1.4	64QAM	6	0	20.15	19.91	19.96	21.5
1.4	256QAM	1	0	18.30	18.36	18.37	19.5
1.4	256QAM	1	3	18.26	18.29	18.24	
1.4	256QAM	1	5	18.22	18.34	18.29	
1.4	256QAM	3	0	18.39	18.25	18.29	
1.4	256QAM	3	1	18.27	18.22	18.36	
1.4	256QAM	3	3	18.40	18.40	18.37	
1.4	256QAM	6	0	18.38	18.33	18.30	19.5



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 13_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.32		24.5
10	QPSK	1	25		23.31		
10	QPSK	1	49		23.19		
10	QPSK	25	0		22.28		23.5
10	QPSK	25	12		22.27		
10	QPSK	25	25		22.21		
10	QPSK	50	0		22.26		23.5
10	16QAM	1	0		22.43		
10	16QAM	1	25		22.38		
10	16QAM	1	49		22.42		22.5
10	16QAM	25	0		21.29		
10	16QAM	25	12		21.30		
10	16QAM	25	25		21.30		22.5
10	16QAM	50	0		21.28		
10	64QAM	1	0		21.48		
10	64QAM	1	25		21.45		22.5
10	64QAM	1	49		21.44		
10	64QAM	25	0		20.30		
10	64QAM	25	12		20.32		21.5
10	64QAM	25	25		20.31		
10	64QAM	50	0		20.30		
10	256QAM	1	0		18.13		19.5
10	256QAM	1	25		18.10		
10	256QAM	1	49		18.01		
10	256QAM	25	0		18.16		19.5
10	256QAM	25	12		18.02		
10	256QAM	25	25		18.14		
10	256QAM	50	0		18.12		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.20	23.14	23.30	24.5
5	QPSK	1	12	23.24	23.12	23.28	
5	QPSK	1	24	23.12	23.18	23.05	
5	QPSK	12	0	22.13	22.19	22.21	23.5
5	QPSK	12	7	22.22	22.20	22.19	
5	QPSK	12	13	22.20	22.16	22.17	
5	QPSK	25	0	22.06	22.06	22.07	23.5
5	16QAM	1	0	22.35	22.34	22.42	
5	16QAM	1	12	22.27	22.25	22.26	
5	16QAM	1	24	22.29	22.29	22.24	22.5
5	16QAM	12	0	21.28	21.19	21.15	
5	16QAM	12	7	21.24	21.15	21.18	
5	16QAM	12	13	21.22	21.22	21.24	22.5
5	16QAM	25	0	21.28	21.21	21.23	
5	64QAM	1	0	21.40	21.34	21.33	
5	64QAM	1	12	21.42	21.39	21.44	22.5
5	64QAM	1	24	21.32	21.40	21.34	
5	64QAM	12	0	20.20	20.10	20.16	
5	64QAM	12	7	20.26	20.17	20.18	21.5
5	64QAM	12	13	20.24	20.25	20.18	
5	64QAM	25	0	20.24	20.18	20.24	
5	256QAM	1	0	18.17	18.18	18.07	19.5
5	256QAM	1	12	18.16	18.20	18.17	
5	256QAM	1	24	18.15	18.00	18.07	
5	256QAM	12	0	18.09	18.02	18.15	19.5
5	256QAM	12	7	18.20	18.12	18.17	
5	256QAM	12	13	18.02	18.15	18.08	
5	256QAM	25	0	18.16	18.11	18.12	



<LTE Band 13_Ant 0_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.32		23.5
10	QPSK	1	25		23.31		
10	QPSK	1	49		23.19		
10	QPSK	25	0		22.28		22.5
10	QPSK	25	12		22.27		
10	QPSK	25	25		22.21		
10	QPSK	50	0		22.26		22.5
10	16QAM	1	0		22.43		
10	16QAM	1	25		22.38		
10	16QAM	1	49		22.42		21.5
10	16QAM	25	0		21.29		
10	16QAM	25	12		21.30		
10	16QAM	25	25		21.30		21.5
10	16QAM	50	0		21.28		
10	64QAM	1	0		21.48		
10	64QAM	1	25		21.45		21.5
10	64QAM	1	49		21.44		
10	64QAM	25	0		20.30		
10	64QAM	25	12		20.32		20.5
10	64QAM	25	25		20.31		
10	64QAM	50	0		20.30		
10	256QAM	1	0		18.13		18.5
10	256QAM	1	25		18.10		
10	256QAM	1	49		18.01		
10	256QAM	25	0		18.16		18.5
10	256QAM	25	12		18.02		
10	256QAM	25	25		18.14		
10	256QAM	50	0		18.12		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.20	23.14	23.30	23.5
5	QPSK	1	12	23.24	23.12	23.28	
5	QPSK	1	24	23.12	23.18	23.05	
5	QPSK	12	0	22.13	22.19	22.21	22.5
5	QPSK	12	7	22.22	22.20	22.19	
5	QPSK	12	13	22.20	22.16	22.17	
5	QPSK	25	0	22.06	22.06	22.07	22.5
5	16QAM	1	0	22.35	22.34	22.42	
5	16QAM	1	12	22.27	22.25	22.26	
5	16QAM	1	24	22.29	22.29	22.24	21.5
5	16QAM	12	0	21.28	21.19	21.15	
5	16QAM	12	7	21.24	21.15	21.18	
5	16QAM	12	13	21.22	21.22	21.24	21.5
5	16QAM	25	0	21.28	21.21	21.23	
5	64QAM	1	0	21.40	21.34	21.33	
5	64QAM	1	12	21.42	21.39	21.44	21.5
5	64QAM	1	24	21.32	21.40	21.34	
5	64QAM	12	0	20.20	20.10	20.16	
5	64QAM	12	7	20.26	20.17	20.18	20.5
5	64QAM	12	13	20.24	20.25	20.18	
5	64QAM	25	0	20.24	20.18	20.24	
5	256QAM	1	0	18.17	18.18	18.07	18.5
5	256QAM	1	12	18.16	18.20	18.17	
5	256QAM	1	24	18.15	18.00	18.07	
5	256QAM	12	0	18.09	18.02	18.15	18.5
5	256QAM	12	7	18.20	18.12	18.17	
5	256QAM	12	13	18.02	18.15	18.08	
5	256QAM	25	0	18.16	18.11	18.12	



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<LTE Band 14_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0		23.37		24.5
10	QPSK	1	25		23.23		
10	QPSK	1	49		23.23		
10	QPSK	25	0		22.23		23.5
10	QPSK	25	12		22.20		
10	QPSK	25	25		22.21		
10	QPSK	50	0		22.29		23.5
10	16QAM	1	0		22.72		
10	16QAM	1	25		22.64		
10	16QAM	1	49		22.67		22.5
10	16QAM	25	0		21.28		
10	16QAM	25	12		21.35		
10	16QAM	25	25		21.30		22.5
10	16QAM	50	0		21.32		
10	64QAM	1	0		21.55		
10	64QAM	1	25		21.49		22.5
10	64QAM	1	49		21.47		
10	64QAM	25	0		20.25		
10	64QAM	25	12		20.33		21.5
10	64QAM	25	25		20.29		
10	64QAM	50	0		20.30		
10	256QAM	1	0		18.48		19.5
10	256QAM	1	25		18.51		
10	256QAM	1	49		18.53		
10	256QAM	25	0		18.57		19.5
10	256QAM	25	12		18.49		
10	256QAM	25	25		18.44		
10	256QAM	50	0		18.48		
Channel				23305	23330	23355	Tune-up limit
Frequency (MHz)				790.5	793	795.5	(dBm)
5	QPSK	1	0	23.20	23.22	23.24	24.5
5	QPSK	1	12	23.29	23.35	23.36	
5	QPSK	1	24	23.18	23.21	23.25	
5	QPSK	12	0	22.20	22.22	22.24	23.5
5	QPSK	12	7	22.30	22.32	22.34	
5	QPSK	12	13	22.26	22.28	22.30	
5	QPSK	25	0	22.25	22.28	22.24	23.5
5	16QAM	1	0	22.58	22.67	22.63	
5	16QAM	1	12	22.67	22.71	22.73	
5	16QAM	1	24	22.50	22.57	22.59	22.5
5	16QAM	12	0	21.26	21.28	21.31	
5	16QAM	12	7	21.36	21.37	21.40	
5	16QAM	12	13	21.32	21.32	21.36	22.5
5	16QAM	25	0	21.29	21.29	21.27	
5	64QAM	1	0	21.52	21.48	21.56	
5	64QAM	1	12	21.51	21.50	21.64	22.5
5	64QAM	1	24	21.40	21.52	21.51	
5	64QAM	12	0	20.25	20.27	20.29	
5	64QAM	12	7	20.34	20.38	20.38	21.5
5	64QAM	12	13	20.30	20.32	20.36	
5	64QAM	25	0	20.29	20.29	20.26	
5	256QAM	1	0	18.48	18.52	18.46	19.5
5	256QAM	1	12	18.48	18.58	18.47	
5	256QAM	1	24	18.44	18.48	18.45	
5	256QAM	12	0	18.59	18.50	18.57	19.5
5	256QAM	12	7	18.47	18.50	18.48	
5	256QAM	12	13	18.47	18.51	18.54	
5	256QAM	25	0	18.57	18.59	18.48	



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<LTE Band 17_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.19	23.20	23.15	
10	QPSK	1	25	23.12	23.12	23.16	24.5
10	QPSK	1	49	23.17	23.16	23.19	
10	QPSK	25	0	22.08	22.07	22.10	
10	QPSK	25	12	22.20	22.12	22.14	23.5
10	QPSK	25	25	22.20	22.18	22.21	
10	QPSK	50	0	22.18	22.10	22.10	
10	16QAM	1	0	22.46	22.39	22.51	23.5
10	16QAM	1	25	22.46	22.47	22.42	
10	16QAM	1	49	22.59	22.56	22.65	
10	16QAM	25	0	21.11	21.10	21.10	22.5
10	16QAM	25	12	21.22	21.14	21.18	
10	16QAM	25	25	21.21	21.23	21.26	
10	16QAM	50	0	21.17	21.12	21.12	22.5
10	64QAM	1	0	21.20	21.26	21.23	
10	64QAM	1	25	21.35	21.37	21.47	
10	64QAM	1	49	21.40	21.44	21.44	21.5
10	64QAM	25	0	20.08	20.07	20.10	
10	64QAM	25	12	20.20	20.14	20.17	
10	64QAM	25	25	20.23	20.21	20.23	19.5
10	64QAM	50	0	20.19	20.11	20.14	
10	256QAM	1	0	18.40	18.53	18.43	
10	256QAM	1	25	18.41	18.54	18.54	19.5
10	256QAM	1	49	18.52	18.46	18.54	
10	256QAM	25	0	18.42	18.44	18.57	
10	256QAM	25	12	18.50	18.54	18.51	19.5
10	256QAM	25	25	18.42	18.51	18.57	
10	256QAM	50	0	18.53	18.54	18.52	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.01	23.04	23.08	
5	QPSK	1	12	23.12	23.17	23.18	24.5
5	QPSK	1	24	23.05	23.10	23.12	
5	QPSK	12	0	22.04	22.07	22.10	
5	QPSK	12	7	22.17	22.13	22.22	23.5
5	QPSK	12	13	22.14	22.20	22.20	
5	QPSK	25	0	22.11	22.09	22.10	
5	16QAM	1	0	22.33	22.40	22.45	23.5
5	16QAM	1	12	22.53	22.55	22.60	
5	16QAM	1	24	22.38	22.46	22.52	
5	16QAM	12	0	21.07	21.12	21.18	22.5
5	16QAM	12	7	21.22	21.18	21.29	
5	16QAM	12	13	21.18	21.23	21.28	
5	16QAM	25	0	21.13	21.11	21.14	22.5
5	64QAM	1	0	21.23	21.33	21.37	
5	64QAM	1	12	21.34	21.46	21.42	
5	64QAM	1	24	21.34	21.35	21.34	21.5
5	64QAM	12	0	20.07	20.11	20.14	
5	64QAM	12	7	20.17	20.18	20.28	
5	64QAM	12	13	20.16	20.24	20.22	19.5
5	64QAM	25	0	20.13	20.12	20.13	
5	256QAM	1	0	18.40	18.60	18.50	
5	256QAM	1	12	18.60	18.57	18.58	19.5
5	256QAM	1	24	18.50	18.50	18.58	
5	256QAM	12	0	18.46	18.43	18.41	
5	256QAM	12	7	18.59	18.50	18.52	19.5
5	256QAM	12	13	18.50	18.52	18.55	
5	256QAM	25	0	18.47	18.52	18.49	



<LTE Band 25_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	23.18	23.08	22.88	
20	QPSK	1	49	23.09	22.98	23.06	24
20	QPSK	1	99	23.12	22.86	22.78	
20	QPSK	50	0	22.18	22.13	22.04	
20	QPSK	50	24	22.12	22.12	21.81	23
20	QPSK	50	50	22.01	22.07	21.98	
20	QPSK	100	0	22.14	22.10	22.03	
20	16QAM	1	0	22.16	22.08	21.96	23
20	16QAM	1	49	22.31	22.14	22.10	
20	16QAM	1	99	21.99	22.37	22.10	
20	16QAM	50	0	21.07	21.02	20.94	22
20	16QAM	50	24	21.15	21.21	20.88	
20	16QAM	50	50	21.11	21.08	21.00	
20	16QAM	100	0	21.21	21.04	20.85	22
20	64QAM	1	0	21.09	21.18	20.88	
20	64QAM	1	49	21.07	20.80	20.75	
20	64QAM	1	99	20.98	21.11	21.06	21
20	64QAM	50	0	19.94	20.05	20.01	
20	64QAM	50	24	20.12	20.16	19.79	
20	64QAM	50	50	19.99	20.04	19.94	19
20	64QAM	100	0	20.11	20.04	19.87	
20	256QAM	1	0	17.76	17.95	17.70	
20	256QAM	1	49	17.78	17.95	17.87	19
20	256QAM	1	99	18.01	18.01	17.78	
20	256QAM	50	0	17.66	17.83	17.55	
20	256QAM	50	24	17.84	17.83	17.85	19
20	256QAM	50	50	17.83	17.93	17.85	
20	256QAM	100	0	17.75	17.75	17.78	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	23.15	23.16	22.92	
15	QPSK	1	37	23.12	23.04	23.09	24
15	QPSK	1	74	23.12	22.96	22.80	
15	QPSK	36	0	22.14	22.27	22.15	23
15	QPSK	36	20	22.16	22.30	21.98	
15	QPSK	36	39	22.03	22.23	22.06	
15	QPSK	75	0	22.20	22.22	22.13	23
15	16QAM	1	0	22.61	22.24	22.37	
15	16QAM	1	37	22.47	22.33	22.30	
15	16QAM	1	74	22.16	22.41	22.18	22
15	16QAM	36	0	21.10	21.03	21.12	
15	16QAM	36	20	21.26	21.25	20.97	
15	16QAM	36	39	21.23	21.20	21.14	22
15	16QAM	75	0	21.27	21.08	20.97	
15	64QAM	1	0	21.34	21.33	20.98	
15	64QAM	1	37	21.14	20.89	20.99	21
15	64QAM	1	74	21.08	21.08	21.14	
15	64QAM	36	0	20.09	20.24	20.05	
15	64QAM	36	20	20.24	20.24	19.95	19
15	64QAM	36	39	20.01	20.24	19.94	
15	64QAM	75	0	20.12	20.22	19.87	
15	256QAM	1	0	17.95	18.10	17.77	19
15	256QAM	1	37	17.88	18.09	17.99	
15	256QAM	1	74	18.06	18.01	17.98	
15	256QAM	36	0	17.84	17.88	17.97	19
15	256QAM	36	20	17.94	18.02	18.02	



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15	256QAM	36	39	17.90	18.12	18.05	
15	256QAM	75	0	17.84	17.85	17.94	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	23.16	23.01	22.88	24
10	QPSK	1	25	23.06	23.05	23.06	
10	QPSK	1	49	23.15	22.76	22.74	
10	QPSK	25	0	22.13	22.27	21.99	23
10	QPSK	25	12	22.22	22.22	21.81	
10	QPSK	25	25	21.93	22.08	21.96	
10	QPSK	50	0	22.06	22.05	22.05	
10	16QAM	1	0	22.09	22.02	22.04	23
10	16QAM	1	25	22.34	22.05	22.11	
10	16QAM	1	49	21.95	22.42	22.04	
10	16QAM	25	0	21.10	20.94	21.04	22
10	16QAM	25	12	21.17	21.25	20.89	
10	16QAM	25	25	21.03	21.11	20.97	
10	16QAM	50	0	21.11	20.97	20.87	
10	64QAM	1	0	21.32	21.35	20.96	22
10	64QAM	1	25	21.02	20.97	20.96	
10	64QAM	1	49	20.95	21.22	21.07	
10	64QAM	25	0	19.86	20.13	19.93	21
10	64QAM	25	12	20.06	20.17	19.78	
10	64QAM	25	25	20.08	20.05	19.86	
10	64QAM	50	0	20.18	20.03	19.86	
10	256QAM	1	0	17.72	17.86	17.64	19
10	256QAM	1	25	17.68	17.88	17.78	
10	256QAM	1	49	18.07	17.91	17.71	
10	256QAM	25	0	17.63	17.80	17.54	19
10	256QAM	25	12	17.80	17.84	17.91	
10	256QAM	25	25	17.77	17.97	17.89	
10	256QAM	50	0	17.85	17.80	17.71	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	23.13	23.07	22.80	24
5	QPSK	1	12	22.99	23.05	23.00	
5	QPSK	1	24	23.03	22.91	22.77	
5	QPSK	12	0	22.17	22.14	22.04	23
5	QPSK	12	7	22.13	22.28	21.82	
5	QPSK	12	13	22.06	21.97	22.03	
5	QPSK	25	0	22.22	22.16	21.96	
5	16QAM	1	0	22.08	22.07	21.95	23
5	16QAM	1	12	22.34	22.13	22.08	
5	16QAM	1	24	21.98	22.41	22.01	
5	16QAM	12	0	21.13	21.09	20.99	22
5	16QAM	12	7	21.23	21.31	20.84	
5	16QAM	12	13	21.15	21.02	20.98	
5	16QAM	25	0	21.20	21.10	20.77	
5	64QAM	1	0	21.07	21.31	20.85	22
5	64QAM	1	12	21.13	20.90	20.83	
5	64QAM	1	24	20.93	21.33	21.01	
5	64QAM	12	0	19.87	20.03	20.09	21
5	64QAM	12	7	20.04	20.23	19.89	
5	64QAM	12	13	20.00	20.14	19.91	
5	64QAM	25	0	20.13	20.03	19.94	
5	256QAM	1	0	17.79	18.01	17.69	19
5	256QAM	1	12	17.69	17.86	17.90	
5	256QAM	1	24	18.06	18.03	17.84	
5	256QAM	12	0	17.70	17.88	17.57	19
5	256QAM	12	7	17.80	17.92	17.95	
5	256QAM	12	13	17.90	17.92	17.87	
5	256QAM	25	0	17.70	17.83	17.68	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	22.96	22.97	22.78	24
3	QPSK	1	8	22.86	22.94	23.06	
3	QPSK	1	14	23.02	22.67	22.69	
3	QPSK	8	0	22.13	22.14	21.87	23
3	QPSK	8	4	22.10	22.11	21.72	
3	QPSK	8	7	21.73	21.94	21.93	
3	QPSK	15	0	21.95	22.04	22.05	
3	16QAM	1	0	22.09	21.96	21.94	23
3	16QAM	1	8	22.29	21.90	22.03	
3	16QAM	1	14	21.88	22.26	22.03	
3	16QAM	8	0	21.03	20.75	20.98	22
3	16QAM	8	4	20.98	21.15	20.85	
3	16QAM	8	7	20.89	21.09	20.82	
3	16QAM	15	0	20.98	20.92	20.71	
3	64QAM	1	0	21.13	21.30	20.81	22
3	64QAM	1	8	20.84	20.97	20.83	
3	64QAM	1	14	20.97	21.07	20.87	
3	64QAM	8	0	19.75	19.99	19.75	21
3	64QAM	8	4	20.06	20.10	19.62	
3	64QAM	8	7	20.03	19.96	19.74	
3	64QAM	15	0	19.99	19.91	19.66	
3	256QAM	1	0	17.64	17.84	17.61	19
3	256QAM	1	8	17.48	17.76	17.68	
3	256QAM	1	14	17.95	17.75	17.54	
3	256QAM	8	0	17.52	17.62	17.43	19
3	256QAM	8	4	17.75	17.83	17.80	
3	256QAM	8	7	17.69	17.78	17.76	
3	256QAM	15	0	17.65	17.77	17.56	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	23.06	22.95	22.77	24
1.4	QPSK	1	3	22.99	23.01	23.07	
1.4	QPSK	1	5	23.16	22.76	22.87	
1.4	QPSK	3	0	22.95	22.91	22.75	
1.4	QPSK	3	1	23.09	22.90	23.15	
1.4	QPSK	3	3	23.13	22.80	22.73	
1.4	QPSK	6	0	22.06	22.23	22.11	23
1.4	16QAM	1	0	22.17	22.17	21.89	23
1.4	16QAM	1	3	21.92	22.16	21.97	
1.4	16QAM	1	5	22.07	22.02	22.11	
1.4	16QAM	3	0	22.49	22.09	22.03	
1.4	16QAM	3	1	22.43	22.07	22.06	
1.4	16QAM	3	3	21.99	22.44	22.02	22
1.4	16QAM	6	0	20.99	21.04	20.90	
1.4	64QAM	1	0	21.16	21.23	20.82	22
1.4	64QAM	1	3	21.08	21.03	21.05	
1.4	64QAM	1	5	21.27	21.12	20.90	
1.4	64QAM	3	0	21.35	21.40	21.09	
1.4	64QAM	3	1	21.11	21.19	21.00	
1.4	64QAM	3	3	21.08	21.27	21.12	
1.4	64QAM	6	0	19.95	20.05	20.01	21
1.4	256QAM	1	0	17.76	17.94	17.65	19
1.4	256QAM	1	3	17.88	17.87	17.77	
1.4	256QAM	1	5	18.10	18.08	17.79	
1.4	256QAM	3	0	17.64	17.77	17.60	
1.4	256QAM	3	1	17.81	17.75	17.84	
1.4	256QAM	3	3	17.80	17.97	17.90	19
1.4	256QAM	6	0	17.65	17.69	17.74	



<LTE Band 25_Ant 0_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	19.85	19.81	19.75	
20	QPSK	1	49	19.78	19.71	19.70	21
20	QPSK	1	99	19.55	19.52	19.71	
20	QPSK	50	0	18.85	18.81	18.84	
20	QPSK	50	24	18.81	18.80	18.80	20
20	QPSK	50	50	18.82	18.79	18.78	
20	QPSK	100	0	18.86	18.82	18.82	
20	16QAM	1	0	19.08	18.98	18.87	20
20	16QAM	1	49	18.83	19.04	18.97	
20	16QAM	1	99	18.92	18.94	19.05	
20	16QAM	50	0	17.87	17.83	17.90	19
20	16QAM	50	24	17.92	17.89	17.91	
20	16QAM	50	50	17.81	17.74	17.85	
20	16QAM	100	0	17.80	17.80	17.83	19
20	64QAM	1	0	18.03	18.03	17.93	
20	64QAM	1	49	17.72	17.97	17.59	
20	64QAM	1	99	17.77	17.82	17.75	18
20	64QAM	50	0	16.95	16.69	16.83	
20	64QAM	50	24	16.87	16.78	16.84	
20	64QAM	50	50	16.84	16.78	16.90	16
20	64QAM	100	0	16.83	16.73	16.90	
20	256QAM	1	0	15.04	14.93	15.09	
20	256QAM	1	49	14.99	15.01	14.94	16
20	256QAM	1	99	14.93	14.93	15.06	
20	256QAM	50	0	14.98	15.09	15.03	
20	256QAM	50	24	14.99	15.08	15.03	16
20	256QAM	50	50	15.07	15.10	15.06	
20	256QAM	100	0	14.90	14.94	14.92	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	19.74	19.70	19.71	
15	QPSK	1	37	19.75	19.73	19.76	21
15	QPSK	1	74	19.73	19.63	19.68	
15	QPSK	36	0	18.87	18.75	18.78	20
15	QPSK	36	20	18.85	18.81	18.77	
15	QPSK	36	39	18.83	18.81	18.84	
15	QPSK	75	0	18.85	18.83	18.76	20
15	16QAM	1	0	19.11	19.06	19.02	
15	16QAM	1	37	19.07	19.02	19.05	
15	16QAM	1	74	19.05	18.98	18.96	19
15	16QAM	36	0	17.86	17.76	17.78	
15	16QAM	36	20	17.86	17.83	17.78	
15	16QAM	36	39	17.83	17.81	17.86	19
15	16QAM	75	0	17.85	17.84	17.78	
15	64QAM	1	0	17.98	17.93	17.94	
15	64QAM	1	37	18.03	17.94	17.98	19
15	64QAM	1	74	17.96	17.86	17.90	
15	64QAM	36	0	16.85	16.74	16.76	
15	64QAM	36	20	16.87	16.79	16.76	18
15	64QAM	36	39	16.84	16.78	16.84	
15	64QAM	75	0	16.85	16.82	16.78	
15	256QAM	1	0	14.93	14.95	15.06	16
15	256QAM	1	37	14.97	15.04	14.98	
15	256QAM	1	74	14.92	14.93	15.06	
15	256QAM	36	0	14.96	15.07	14.94	16
15	256QAM	36	20	15.04	15.06	14.97	



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15	256QAM	36	39	15.01	14.98	14.91	
15	256QAM	75	0	15.04	15.05	14.97	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	19.77	19.81	19.81	21
10	QPSK	1	25	19.83	19.84	19.81	
10	QPSK	1	49	19.75	19.78	19.82	
10	QPSK	25	0	18.89	18.89	18.84	20
10	QPSK	25	12	18.91	18.88	18.87	
10	QPSK	25	25	18.88	18.85	18.93	
10	QPSK	50	0	18.89	18.86	18.85	
10	16QAM	1	0	19.17	19.14	19.17	20
10	16QAM	1	25	19.13	19.17	19.24	
10	16QAM	1	49	19.09	19.13	19.25	
10	16QAM	25	0	17.93	17.92	17.83	19
10	16QAM	25	12	17.97	17.89	17.87	
10	16QAM	25	25	17.91	17.90	17.95	
10	16QAM	50	0	17.91	17.90	17.84	
10	64QAM	1	0	18.01	18.00	18.03	19
10	64QAM	1	25	18.11	18.01	18.12	
10	64QAM	1	49	18.02	17.94	18.07	
10	64QAM	25	0	16.90	16.90	16.84	18
10	64QAM	25	12	16.94	16.91	16.88	
10	64QAM	25	25	16.90	16.89	16.93	
10	64QAM	50	0	16.92	16.89	16.84	
10	256QAM	1	0	15.08	15.06	14.97	16
10	256QAM	1	25	14.94	15.00	15.04	
10	256QAM	1	49	15.04	15.02	15.03	
10	256QAM	25	0	14.95	15.03	15.02	
10	256QAM	25	12	15.01	14.91	14.98	16
10	256QAM	25	25	14.93	14.94	15.06	
10	256QAM	50	0	14.96	14.90	14.95	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	19.76	19.75	19.81	21
5	QPSK	1	12	19.82	19.82	19.84	
5	QPSK	1	24	19.79	19.76	19.84	
5	QPSK	12	0	18.81	18.86	18.80	20
5	QPSK	12	7	18.94	18.89	18.84	
5	QPSK	12	13	18.89	18.84	18.89	
5	QPSK	25	0	18.89	18.85	18.81	
5	16QAM	1	0	19.13	19.12	19.13	20
5	16QAM	1	12	19.28	19.20	19.24	
5	16QAM	1	24	19.11	19.07	19.12	
5	16QAM	12	0	17.85	17.90	17.82	19
5	16QAM	12	7	17.96	17.91	17.87	
5	16QAM	12	13	17.94	17.88	17.93	
5	16QAM	25	0	17.93	17.88	17.82	
5	64QAM	1	0	18.03	17.96	18.02	19
5	64QAM	1	12	18.07	18.10	18.16	
5	64QAM	1	24	17.98	17.97	18.02	
5	64QAM	12	0	16.84	16.88	16.81	18
5	64QAM	12	7	16.92	16.91	16.85	
5	64QAM	12	13	16.94	16.89	16.94	
5	64QAM	25	0	16.93	16.85	16.81	
5	256QAM	1	0	14.94	15.06	15.01	16
5	256QAM	1	12	14.93	15.09	14.90	
5	256QAM	1	24	14.98	14.98	14.91	
5	256QAM	12	0	15.05	15.05	14.90	16
5	256QAM	12	7	15.09	15.10	14.93	
5	256QAM	12	13	15.09	15.00	15.00	
5	256QAM	25	0	14.96	15.05	15.01	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	19.82	19.71	19.47	21
3	QPSK	1	8	19.60	19.56	19.71	
3	QPSK	1	14	19.49	19.48	19.76	
3	QPSK	8	0	18.65	18.75	18.74	20
3	QPSK	8	4	18.78	18.77	18.78	
3	QPSK	8	7	18.71	18.60	18.84	
3	QPSK	15	0	18.69	18.80	18.78	
3	16QAM	1	0	18.94	18.82	18.84	20
3	16QAM	1	8	18.77	18.90	18.90	
3	16QAM	1	14	18.81	18.84	19.03	
3	16QAM	8	0	17.77	17.78	17.76	19
3	16QAM	8	4	17.87	17.70	17.71	
3	16QAM	8	7	17.69	17.60	17.80	
3	16QAM	15	0	17.61	17.62	17.82	
3	64QAM	1	0	18.12	18.02	17.82	19
3	64QAM	1	8	17.71	17.91	17.67	
3	64QAM	1	14	17.62	17.82	17.71	
3	64QAM	8	0	16.86	16.61	16.68	18
3	64QAM	8	4	16.84	16.72	16.75	
3	64QAM	8	7	16.74	16.67	16.77	
3	64QAM	15	0	16.64	16.61	16.71	
3	256QAM	1	0	15.01	14.92	14.96	16
3	256QAM	1	8	15.06	14.93	15.00	
3	256QAM	1	14	15.01	14.96	15.07	
3	256QAM	8	0	15.01	14.97	14.98	16
3	256QAM	8	4	15.10	14.92	15.09	
3	256QAM	8	7	15.06	14.93	14.95	
3	256QAM	15	0	15.09	14.98	15.07	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	19.81	19.79	19.82	21
1.4	QPSK	1	3	19.77	19.80	19.84	
1.4	QPSK	1	5	19.84	19.81	19.80	
1.4	QPSK	3	0	19.77	19.82	19.83	
1.4	QPSK	3	1	19.80	19.84	19.80	
1.4	QPSK	3	3	19.80	19.84	19.83	
1.4	QPSK	6	0	18.89	18.85	18.86	20
1.4	16QAM	1	0	19.24	19.11	19.13	20
1.4	16QAM	1	3	19.22	19.17	19.22	
1.4	16QAM	1	5	19.19	19.14	19.14	
1.4	16QAM	3	0	19.03	18.95	18.98	
1.4	16QAM	3	1	18.99	19.00	18.97	
1.4	16QAM	3	3	19.00	18.96	19.01	19
1.4	16QAM	6	0	17.93	17.90	17.92	
1.4	64QAM	1	0	18.01	17.99	17.98	
1.4	64QAM	1	3	18.10	18.04	18.06	19
1.4	64QAM	1	5	18.06	18.03	18.00	
1.4	64QAM	3	0	17.96	17.96	17.96	
1.4	64QAM	3	1	17.99	17.97	17.96	
1.4	64QAM	3	3	17.97	17.95	17.97	18
1.4	64QAM	6	0	16.90	16.90	16.91	
1.4	256QAM	1	0	14.93	14.92	15.03	16
1.4	256QAM	1	3	14.99	14.94	15.05	
1.4	256QAM	1	5	15.05	15.07	14.99	
1.4	256QAM	3	0	14.98	15.08	15.01	
1.4	256QAM	3	1	15.10	15.00	14.95	
1.4	256QAM	3	3	14.95	15.08	15.02	16
1.4	256QAM	6	0	14.96	15.10	15.06	



<LTE Band 25_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	22.89	23.04	22.87	
20	QPSK	1	49	22.75	23.02	22.84	24
20	QPSK	1	99	22.80	22.95	22.81	
20	QPSK	50	0	22.15	22.39	22.25	
20	QPSK	50	24	22.13	22.38	22.12	23
20	QPSK	50	50	22.19	22.38	22.22	
20	QPSK	100	0	22.01	22.27	22.11	
20	16QAM	1	0	21.89	22.23	22.13	23
20	16QAM	1	49	22.08	22.27	22.09	
20	16QAM	1	99	21.92	22.28	22.14	
20	16QAM	50	0	20.95	21.23	21.13	22
20	16QAM	50	24	21.17	21.37	21.21	
20	16QAM	50	50	21.13	21.41	21.23	
20	16QAM	100	0	21.02	21.29	21.11	22
20	64QAM	1	0	21.12	21.37	21.23	
20	64QAM	1	49	21.01	21.32	21.17	
20	64QAM	1	99	21.12	21.48	21.31	21
20	64QAM	50	0	19.88	20.26	20.13	
20	64QAM	50	24	20.02	20.30	20.28	
20	64QAM	50	50	20.00	20.31	20.19	19
20	64QAM	100	0	19.99	20.31	20.14	
20	256QAM	1	0	18.08	18.30	18.24	
20	256QAM	1	49	18.20	18.46	18.36	19
20	256QAM	1	99	18.22	18.55	18.33	
20	256QAM	50	0	18.14	18.38	18.22	
20	256QAM	50	24	18.27	18.42	18.37	19
20	256QAM	50	50	18.15	18.35	18.26	
20	256QAM	100	0	17.95	18.25	18.10	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	22.70	22.94	22.74	
15	QPSK	1	37	22.73	23.00	22.76	24
15	QPSK	1	74	22.77	22.91	22.78	
15	QPSK	36	0	21.99	22.23	22.08	23
15	QPSK	36	20	22.13	22.28	22.29	
15	QPSK	36	39	22.17	22.28	22.13	
15	QPSK	75	0	21.98	22.22	22.02	23
15	16QAM	1	0	21.81	22.22	22.03	
15	16QAM	1	37	22.08	22.22	22.09	
15	16QAM	1	74	21.92	22.28	22.04	22
15	16QAM	36	0	20.93	21.21	21.04	
15	16QAM	36	20	21.13	21.28	21.18	
15	16QAM	36	39	21.12	21.41	21.15	22
15	16QAM	75	0	20.93	21.22	21.11	
15	64QAM	1	0	21.04	21.37	21.23	
15	64QAM	1	37	20.92	21.24	21.15	21
15	64QAM	1	74	21.03	21.45	21.22	
15	64QAM	36	0	19.87	20.25	20.08	
15	64QAM	36	20	20.00	20.21	20.19	19
15	64QAM	36	39	19.94	20.21	20.14	
15	64QAM	75	0	19.97	20.28	20.04	
15	256QAM	1	0	18.06	18.24	18.22	19
15	256QAM	1	37	18.17	18.44	18.30	
15	256QAM	1	74	18.19	18.50	18.29	
15	256QAM	36	0	18.11	18.37	18.17	19
15	256QAM	36	20	18.27	18.39	18.29	



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15	256QAM	36	39	18.08	18.25	18.23	
15	256QAM	75	0	17.90	18.22	18.07	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	22.74	23.03	22.70	24
10	QPSK	1	25	22.73	22.92	22.78	
10	QPSK	1	49	22.73	22.94	22.80	
10	QPSK	25	0	22.01	22.21	22.06	23
10	QPSK	25	12	22.15	22.35	22.24	
10	QPSK	25	25	22.12	22.30	22.17	
10	QPSK	50	0	21.93	22.27	22.01	
10	16QAM	1	0	21.84	22.15	22.10	23
10	16QAM	1	25	22.05	22.25	22.09	
10	16QAM	1	49	21.89	22.20	22.13	
10	16QAM	25	0	20.89	21.14	21.12	22
10	16QAM	25	12	21.07	21.35	21.13	
10	16QAM	25	25	21.06	21.33	21.17	
10	16QAM	50	0	20.92	21.19	21.05	
10	64QAM	1	0	21.08	21.27	21.22	22
10	64QAM	1	25	20.98	21.25	21.10	
10	64QAM	1	49	21.06	21.46	21.31	
10	64QAM	25	0	19.84	20.17	20.07	21
10	64QAM	25	12	19.99	20.29	20.26	
10	64QAM	25	25	19.96	20.31	20.15	
10	64QAM	50	0	19.89	20.27	20.14	
10	256QAM	1	0	18.03	18.25	18.19	19
10	256QAM	1	25	18.20	18.43	18.33	
10	256QAM	1	49	18.20	18.45	18.26	
10	256QAM	25	0	18.14	18.33	18.22	19
10	256QAM	25	12	18.26	18.41	18.33	
10	256QAM	25	25	18.12	18.29	18.19	
10	256QAM	50	0	17.92	18.15	18.00	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	22.74	23.02	22.71	24
5	QPSK	1	12	22.72	23.02	22.79	
5	QPSK	1	24	22.75	22.90	22.74	
5	QPSK	12	0	21.95	22.23	22.11	23
5	QPSK	12	7	22.17	22.35	22.22	
5	QPSK	12	13	22.14	22.29	22.18	
5	QPSK	25	0	21.97	22.20	22.11	
5	16QAM	1	0	21.85	22.20	22.10	23
5	16QAM	1	12	22.01	22.21	22.03	
5	16QAM	1	24	21.88	22.25	22.12	
5	16QAM	12	0	20.94	21.21	21.07	22
5	16QAM	12	7	21.10	21.37	21.18	
5	16QAM	12	13	21.08	21.41	21.20	
5	16QAM	25	0	20.92	21.29	21.06	
5	64QAM	1	0	21.11	21.34	21.23	22
5	64QAM	1	12	20.91	21.24	21.14	
5	64QAM	1	24	21.04	21.42	21.21	
5	64QAM	12	0	19.85	20.16	20.12	21
5	64QAM	12	7	19.92	20.28	20.19	
5	64QAM	12	13	19.94	20.24	20.15	
5	64QAM	25	0	19.90	20.28	20.06	
5	256QAM	1	0	18.01	18.30	18.18	19
5	256QAM	1	12	18.10	18.45	18.31	
5	256QAM	1	24	18.22	18.53	18.30	
5	256QAM	12	0	18.10	18.35	18.18	19
5	256QAM	12	7	18.25	18.42	18.33	
5	256QAM	12	13	18.13	18.30	18.22	
5	256QAM	25	0	17.88	18.16	18.06	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	22.71	22.97	22.67	24
3	QPSK	1	8	22.75	22.97	22.78	
3	QPSK	1	14	22.72	22.91	22.80	
3	QPSK	8	0	22.03	22.24	22.11	23
3	QPSK	8	4	22.18	22.37	22.28	
3	QPSK	8	7	22.11	22.36	22.22	
3	QPSK	15	0	21.95	22.20	22.11	
3	16QAM	1	0	21.82	22.15	22.07	23
3	16QAM	1	8	22.01	22.21	22.07	
3	16QAM	1	14	21.82	22.20	22.11	
3	16QAM	8	0	20.85	21.21	21.10	22
3	16QAM	8	4	21.15	21.27	21.14	
3	16QAM	8	7	21.03	21.32	21.22	
3	16QAM	15	0	20.93	21.21	21.04	
3	64QAM	1	0	21.08	21.28	21.15	22
3	64QAM	1	8	20.92	21.24	21.11	
3	64QAM	1	14	21.11	21.40	21.31	
3	64QAM	8	0	19.79	20.20	20.07	21
3	64QAM	8	4	20.02	20.23	20.18	
3	64QAM	8	7	19.94	20.27	20.12	
3	64QAM	15	0	19.93	20.23	20.07	
3	256QAM	1	0	18.08	18.30	18.18	19
3	256QAM	1	8	18.16	18.44	18.33	
3	256QAM	1	14	18.20	18.47	18.32	
3	256QAM	8	0	18.05	18.34	18.20	19
3	256QAM	8	4	18.23	18.41	18.29	
3	256QAM	8	7	18.05	18.29	18.21	
3	256QAM	15	0	17.88	18.22	18.08	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	22.74	22.99	22.65	24
1.4	QPSK	1	3	22.67	22.96	22.78	
1.4	QPSK	1	5	22.76	22.87	22.78	
1.4	QPSK	3	0	22.75	22.95	22.66	
1.4	QPSK	3	1	22.74	22.95	22.76	
1.4	QPSK	3	3	22.74	22.93	22.74	
1.4	QPSK	6	0	21.94	22.23	22.10	23
1.4	16QAM	1	0	22.23	22.31	22.27	23
1.4	16QAM	1	3	22.17	22.35	22.16	
1.4	16QAM	1	5	22.00	22.24	22.11	
1.4	16QAM	3	0	21.86	22.22	22.08	
1.4	16QAM	3	1	22.02	22.22	22.01	
1.4	16QAM	3	3	21.82	22.24	22.05	22
1.4	16QAM	6	0	20.85	21.18	21.05	
1.4	64QAM	1	0	21.09	21.35	21.15	22
1.4	64QAM	1	3	21.06	21.35	21.15	
1.4	64QAM	1	5	21.02	21.26	21.09	
1.4	64QAM	3	0	21.02	21.28	21.17	
1.4	64QAM	3	1	20.92	21.32	21.12	
1.4	64QAM	3	3	21.12	21.38	21.24	
1.4	64QAM	6	0	19.78	20.26	20.10	21
1.4	256QAM	1	0	18.02	18.23	18.16	19
1.4	256QAM	1	3	18.10	18.40	18.28	
1.4	256QAM	1	5	18.16	18.53	18.30	
1.4	256QAM	3	0	18.10	18.28	18.22	
1.4	256QAM	3	1	18.18	18.33	18.30	
1.4	256QAM	3	3	18.08	18.30	18.24	19
1.4	256QAM	6	0	17.89	18.15	18.09	



<LTE Band 25_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	14.5
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	13.12	13.59	13.10	
20	QPSK	1	49	12.62	13.17	12.58	14.5
20	QPSK	1	99	12.64	13.14	12.60	
20	QPSK	50	0	12.81	13.32	12.79	
20	QPSK	50	24	12.77	13.25	12.77	14.5
20	QPSK	50	50	12.80	13.23	12.72	
20	QPSK	100	0	12.81	13.36	12.84	
20	16QAM	1	0	12.86	13.37	12.86	14.5
20	16QAM	1	49	12.98	13.46	12.89	
20	16QAM	1	99	12.95	13.44	12.86	
20	16QAM	50	0	12.84	13.38	12.84	14.5
20	16QAM	50	24	12.92	13.48	12.92	
20	16QAM	50	50	12.90	13.44	12.90	
20	16QAM	100	0	12.93	13.45	12.91	14.5
20	64QAM	1	0	13.04	13.57	13.04	
20	64QAM	1	49	12.93	13.46	12.90	
20	64QAM	1	99	12.90	13.44	12.92	14.5
20	64QAM	50	0	12.89	13.38	12.79	
20	64QAM	50	24	12.82	13.35	12.85	
20	64QAM	50	50	12.93	13.48	12.94	14.5
20	64QAM	100	0	12.88	13.35	12.83	
20	256QAM	1	0	12.96	13.45	12.96	
20	256QAM	1	49	12.88	13.37	12.78	14.5
20	256QAM	1	99	12.91	13.42	12.90	
20	256QAM	50	0	12.91	13.38	12.80	
20	256QAM	50	24	12.93	13.48	12.95	14.5
20	256QAM	50	50	12.98	13.45	12.93	
20	256QAM	100	0	12.87	13.38	12.88	
Channel				26115	26340	26615	14.5
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	13.02	13.54	13.01	
15	QPSK	1	37	12.57	12.99	12.66	14.5
15	QPSK	1	74	12.62	12.96	12.51	
15	QPSK	36	0	12.77	13.22	12.79	
15	QPSK	36	20	12.82	13.34	12.91	14.5
15	QPSK	36	39	12.87	13.41	12.86	
15	QPSK	75	0	12.82	13.28	12.79	
15	16QAM	1	0	12.79	13.24	12.80	14.5
15	16QAM	1	37	12.92	13.37	12.95	
15	16QAM	1	74	12.89	13.36	12.81	
15	16QAM	36	0	12.79	13.29	12.75	14.5
15	16QAM	36	20	12.89	13.36	12.94	
15	16QAM	36	39	12.82	13.34	12.83	
15	16QAM	75	0	12.87	13.42	12.78	14.5
15	64QAM	1	0	13.00	13.51	12.98	
15	64QAM	1	37	12.93	13.32	12.91	
15	64QAM	1	74	12.86	13.33	12.78	14.5
15	64QAM	36	0	12.80	13.25	12.74	
15	64QAM	36	20	12.75	13.24	12.81	
15	64QAM	36	39	12.90	13.37	12.89	14.5
15	64QAM	75	0	12.72	13.31	12.77	
15	256QAM	1	0	12.87	13.35	12.83	
15	256QAM	1	37	12.75	13.31	12.75	14.5
15	256QAM	1	74	12.88	13.30	12.83	
15	256QAM	36	0	12.87	13.23	12.81	
15	256QAM	36	20	12.96	13.31	12.91	14.5



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15	256QAM	36	39	12.96	13.30	12.86	
15	256QAM	75	0	12.75	13.29	12.76	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	13.09	13.58	13.03	14.5
10	QPSK	1	25	12.56	13.03	12.57	
10	QPSK	1	49	12.59	13.03	12.51	
10	QPSK	25	0	12.69	13.16	12.80	14.5
10	QPSK	25	12	12.81	13.34	12.90	
10	QPSK	25	25	12.93	13.43	12.96	
10	QPSK	50	0	12.73	13.29	12.77	
10	16QAM	1	0	12.81	13.31	12.83	14.5
10	16QAM	1	25	12.94	13.45	12.95	
10	16QAM	1	49	12.89	13.37	12.78	
10	16QAM	25	0	12.83	13.33	12.81	14.5
10	16QAM	25	12	12.95	13.30	12.90	
10	16QAM	25	25	12.88	13.42	12.78	
10	16QAM	50	0	12.90	13.35	12.90	
10	64QAM	1	0	12.96	13.53	12.93	14.5
10	64QAM	1	25	12.82	13.44	12.92	
10	64QAM	1	49	12.85	13.41	12.86	
10	64QAM	25	0	12.78	13.18	12.77	14.5
10	64QAM	25	12	12.80	13.15	12.72	
10	64QAM	25	25	12.94	13.38	12.90	
10	64QAM	50	0	12.74	13.31	12.72	
10	256QAM	1	0	12.89	13.35	12.86	14.5
10	256QAM	1	25	12.85	13.25	12.72	
10	256QAM	1	49	12.88	13.30	12.89	
10	256QAM	25	0	12.83	13.31	12.84	14.5
10	256QAM	25	12	12.92	13.37	12.88	
10	256QAM	25	25	12.91	13.30	12.84	
10	256QAM	50	0	12.79	13.31	12.72	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	13.07	13.51	13.00	14.5
5	QPSK	1	12	12.60	13.01	12.55	
5	QPSK	1	24	12.54	12.99	12.56	
5	QPSK	12	0	12.70	13.27	12.73	14.5
5	QPSK	12	7	12.86	13.30	12.92	
5	QPSK	12	13	12.86	13.36	12.84	
5	QPSK	25	0	12.80	13.19	12.77	
5	16QAM	1	0	12.79	13.32	12.81	14.5
5	16QAM	1	12	12.89	13.37	12.85	
5	16QAM	1	24	12.85	13.44	12.86	
5	16QAM	12	0	12.71	13.34	12.73	14.5
5	16QAM	12	7	12.96	13.37	12.79	
5	16QAM	12	13	12.90	13.40	12.90	
5	16QAM	25	0	12.84	13.29	12.86	
5	64QAM	1	0	12.96	13.43	12.88	14.5
5	64QAM	1	12	12.89	13.41	12.83	
5	64QAM	1	24	12.79	13.32	12.85	
5	64QAM	12	0	12.77	13.22	12.78	14.5
5	64QAM	12	7	12.70	13.25	12.76	
5	64QAM	12	13	12.91	13.46	12.88	
5	64QAM	25	0	12.75	13.21	12.76	
5	256QAM	1	0	12.87	13.35	12.87	14.5
5	256QAM	1	12	12.84	13.26	12.78	
5	256QAM	1	24	12.79	13.24	12.84	
5	256QAM	12	0	12.77	13.36	12.75	14.5
5	256QAM	12	7	12.83	13.38	12.97	
5	256QAM	12	13	12.87	13.37	12.81	
5	256QAM	25	0	12.84	13.25	12.79	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	13.07	13.55	13.00	14.5
3	QPSK	1	8	12.58	13.09	12.63	
3	QPSK	1	14	12.67	13.05	12.63	
3	QPSK	8	0	12.73	13.26	12.75	14.5
3	QPSK	8	4	12.90	13.36	12.90	
3	QPSK	8	7	12.87	13.37	12.91	
3	QPSK	15	0	12.78	13.31	12.74	14.5
3	16QAM	1	0	12.84	13.20	12.79	
3	16QAM	1	8	12.98	13.35	12.90	
3	16QAM	1	14	12.92	13.36	12.83	14.5
3	16QAM	8	0	12.80	13.27	12.82	
3	16QAM	8	4	12.87	13.35	12.84	
3	16QAM	8	7	12.78	13.38	12.81	14.5
3	16QAM	15	0	12.89	13.28	12.90	
3	64QAM	1	0	13.05	13.50	13.07	
3	64QAM	1	8	12.88	13.37	12.87	14.5
3	64QAM	1	14	12.92	13.42	12.87	
3	64QAM	8	0	12.78	13.28	12.79	
3	64QAM	8	4	12.80	13.33	12.77	14.5
3	64QAM	8	7	12.98	13.43	12.85	
3	64QAM	15	0	12.71	13.26	12.74	
3	256QAM	1	0	12.78	13.38	12.89	14.5
3	256QAM	1	8	12.75	13.27	12.78	
3	256QAM	1	14	12.80	13.31	12.86	
3	256QAM	8	0	12.81	13.28	12.83	14.5
3	256QAM	8	4	12.88	13.37	12.88	
3	256QAM	8	7	12.78	13.41	12.77	
3	256QAM	15	0	12.77	13.26	12.78	Tune-up limit (dBm)
Channel				26047	26340	26683	
Frequency (MHz)				1850.7	1880	1914.3	Tune-up limit (dBm)
1.4	QPSK	1	0	13.07	13.51	13.06	14.5
1.4	QPSK	1	3	12.58	13.09	12.57	
1.4	QPSK	1	5	12.50	13.03	12.53	
1.4	QPSK	3	0	12.78	13.15	12.65	14.5
1.4	QPSK	3	1	12.89	13.44	12.86	
1.4	QPSK	3	3	12.88	13.39	12.88	
1.4	QPSK	6	0	12.77	13.25	12.70	14.5
1.4	16QAM	1	0	12.81	13.25	12.70	14.5
1.4	16QAM	1	3	12.90	13.40	12.79	
1.4	16QAM	1	5	12.93	13.31	12.88	
1.4	16QAM	3	0	12.86	13.30	12.77	14.5
1.4	16QAM	3	1	12.92	13.45	12.93	
1.4	16QAM	3	3	12.91	13.32	12.87	
1.4	16QAM	6	0	12.90	13.41	12.88	14.5
1.4	64QAM	1	0	12.91	13.52	13.06	14.5
1.4	64QAM	1	3	12.84	13.37	12.88	
1.4	64QAM	1	5	12.94	13.35	12.88	
1.4	64QAM	3	0	12.85	13.22	12.70	14.5
1.4	64QAM	3	1	12.83	13.20	12.74	
1.4	64QAM	3	3	12.97	13.38	12.92	
1.4	64QAM	6	0	12.82	13.27	12.79	14.5
1.4	256QAM	1	0	12.88	13.39	12.78	14.5
1.4	256QAM	1	3	12.87	13.17	12.81	
1.4	256QAM	1	5	12.94	13.38	12.74	
1.4	256QAM	3	0	12.84	13.28	12.80	14.5
1.4	256QAM	3	1	12.91	13.32	12.91	
1.4	256QAM	3	3	12.90	13.41	12.81	
1.4	256QAM	6	0	12.78	13.30	12.76	14.5



<LTE Band 25_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	20.29	20.45	20.42	
20	QPSK	1	49	20.38	20.44	20.24	21
20	QPSK	1	99	20.34	20.37	20.19	
20	QPSK	50	0	20.36	20.43	20.24	
20	QPSK	50	24	20.39	20.42	20.40	21
20	QPSK	50	50	20.36	20.40	20.27	
20	QPSK	100	0	20.35	20.38	20.21	
20	16QAM	1	0	20.27	20.36	20.16	21
20	16QAM	1	49	20.16	20.35	20.23	
20	16QAM	1	99	20.22	20.32	20.25	
20	16QAM	50	0	20.37	20.40	20.29	21
20	16QAM	50	24	20.19	20.37	20.36	
20	16QAM	50	50	20.29	20.32	20.32	
20	16QAM	100	0	20.21	20.37	20.36	21
20	64QAM	1	0	20.33	20.44	20.33	
20	64QAM	1	49	20.38	20.38	20.19	
20	64QAM	1	99	20.41	20.42	20.40	21
20	64QAM	50	0	20.13	20.30	20.30	
20	64QAM	50	24	20.09	20.22	20.13	
20	64QAM	50	50	20.12	20.22	20.12	21
20	64QAM	100	0	20.13	20.25	20.09	
20	256QAM	1	0	18.37	18.49	18.44	
20	256QAM	1	49	18.40	18.47	18.30	19
20	256QAM	1	99	18.43	18.44	18.34	
20	256QAM	50	0	18.21	18.30	18.12	
20	256QAM	50	24	18.24	18.30	18.12	19
20	256QAM	50	50	18.17	18.24	18.10	
20	256QAM	100	0	18.21	18.24	18.10	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	20.28	20.37	20.34	
15	QPSK	1	37	20.28	20.43	20.14	21
15	QPSK	1	74	20.25	20.33	20.18	
15	QPSK	36	0	20.32	20.43	20.19	
15	QPSK	36	20	20.29	20.37	20.38	21
15	QPSK	36	39	20.34	20.35	20.22	
15	QPSK	75	0	20.34	20.38	20.16	
15	16QAM	1	0	20.19	20.26	20.15	21
15	16QAM	1	37	20.08	20.28	20.19	
15	16QAM	1	74	20.18	20.31	20.17	
15	16QAM	36	0	20.37	20.33	20.26	21
15	16QAM	36	20	20.16	20.35	20.27	
15	16QAM	36	39	20.20	20.28	20.26	
15	16QAM	75	0	20.11	20.31	20.28	21
15	64QAM	1	0	20.28	20.42	20.30	
15	64QAM	1	37	20.32	20.38	20.13	
15	64QAM	1	74	20.35	20.39	20.32	21
15	64QAM	36	0	20.09	20.22	20.25	
15	64QAM	36	20	20.03	20.21	20.08	
15	64QAM	36	39	20.09	20.19	20.12	21
15	64QAM	75	0	20.05	20.25	20.04	
15	256QAM	1	0	18.29	18.46	18.40	
15	256QAM	1	37	18.30	18.41	18.24	19
15	256QAM	1	74	18.38	18.42	18.28	
15	256QAM	36	0	18.11	18.25	18.12	
15	256QAM	36	20	18.18	18.27	18.02	19



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15	256QAM	36	39	18.10	18.22	18.00	
15	256QAM	75	0	18.11	18.18	18.09	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	20.20	20.41	20.36	21
10	QPSK	1	25	20.30	20.41	20.18	
10	QPSK	1	49	20.29	20.27	20.10	
10	QPSK	25	0	20.27	20.36	20.21	21
10	QPSK	25	12	20.34	20.33	20.35	
10	QPSK	25	25	20.29	20.36	20.22	
10	QPSK	50	0	20.26	20.33	20.14	
10	16QAM	1	0	20.22	20.29	20.14	21
10	16QAM	1	25	20.07	20.32	20.17	
10	16QAM	1	49	20.18	20.25	20.18	
10	16QAM	25	0	20.30	20.30	20.23	21
10	16QAM	25	12	20.18	20.31	20.34	
10	16QAM	25	25	20.25	20.25	20.29	
10	16QAM	50	0	20.20	20.35	20.28	
10	64QAM	1	0	20.33	20.38	20.26	21
10	64QAM	1	25	20.32	20.34	20.11	
10	64QAM	1	49	20.41	20.32	20.31	
10	64QAM	25	0	20.04	20.20	20.21	21
10	64QAM	25	12	20.02	20.15	20.07	
10	64QAM	25	25	20.02	20.17	20.02	
10	64QAM	50	0	20.07	20.19	20.02	
10	256QAM	1	0	18.27	18.49	18.41	19
10	256QAM	1	25	18.40	18.37	18.28	
10	256QAM	1	49	18.35	18.35	18.25	
10	256QAM	25	0	18.12	18.24	18.03	19
10	256QAM	25	12	18.23	18.30	18.07	
10	256QAM	25	25	18.15	18.22	18.03	
10	256QAM	50	0	18.15	18.14	18.09	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	20.20	20.37	20.36	21
5	QPSK	1	12	20.35	20.36	20.23	
5	QPSK	1	24	20.27	20.37	20.16	
5	QPSK	12	0	20.29	20.33	20.14	21
5	QPSK	12	7	20.29	20.38	20.30	
5	QPSK	12	13	20.30	20.37	20.17	
5	QPSK	25	0	20.27	20.32	20.15	
5	16QAM	1	0	20.27	20.34	20.07	21
5	16QAM	1	12	20.12	20.34	20.17	
5	16QAM	1	24	20.18	20.25	20.20	
5	16QAM	12	0	20.28	20.40	20.25	21
5	16QAM	12	7	20.13	20.36	20.32	
5	16QAM	12	13	20.29	20.25	20.26	
5	16QAM	25	0	20.20	20.32	20.29	
5	64QAM	1	0	20.25	20.41	20.29	21
5	64QAM	1	12	20.34	20.34	20.14	
5	64QAM	1	24	20.35	20.40	20.30	
5	64QAM	12	0	20.09	20.30	20.24	21
5	64QAM	12	7	20.06	20.15	20.13	
5	64QAM	12	13	20.07	20.16	20.03	
5	64QAM	25	0	20.04	20.19	20.03	
5	256QAM	1	0	18.37	18.46	18.40	19
5	256QAM	1	12	18.33	18.39	18.20	
5	256QAM	1	24	18.34	18.39	18.25	
5	256QAM	12	0	18.21	18.27	18.04	19
5	256QAM	12	7	18.17	18.25	18.02	
5	256QAM	12	13	18.14	18.24	18.04	
5	256QAM	25	0	18.20	18.16	18.06	



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Channel				26055	26340	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1913.5	
3	QPSK	1	0	20.27	20.40	20.38	21
3	QPSK	1	8	20.34	20.44	20.16	
3	QPSK	1	14	20.28	20.33	20.15	
3	QPSK	8	0	20.34	20.37	20.18	21
3	QPSK	8	4	20.39	20.42	20.40	
3	QPSK	8	7	20.33	20.33	20.23	
3	QPSK	15	0	20.34	20.35	20.11	
3	16QAM	1	0	20.21	20.27	20.06	21
3	16QAM	1	8	20.10	20.28	20.13	
3	16QAM	1	14	20.15	20.28	20.19	
3	16QAM	8	0	20.34	20.34	20.23	21
3	16QAM	8	4	20.19	20.32	20.26	
3	16QAM	8	7	20.25	20.24	20.30	
3	16QAM	15	0	20.13	20.34	20.32	
3	64QAM	1	0	20.28	20.34	20.29	21
3	64QAM	1	8	20.35	20.31	20.11	
3	64QAM	1	14	20.31	20.33	20.37	
3	64QAM	8	0	20.10	20.27	20.21	21
3	64QAM	8	4	20.01	20.12	20.07	
3	64QAM	8	7	20.10	20.17	20.09	
3	64QAM	15	0	20.09	20.17	19.99	
3	256QAM	1	0	18.35	18.40	18.35	19
3	256QAM	1	8	18.33	18.39	18.25	
3	256QAM	1	14	18.40	18.42	18.26	
3	256QAM	8	0	18.17	18.30	18.06	19
3	256QAM	8	4	18.17	18.22	18.05	
3	256QAM	8	7	18.08	18.17	18.02	
3	256QAM	15	0	18.13	18.19	18.07	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	20.22	20.42	20.32	21
1.4	QPSK	1	3	20.34	20.37	20.20	
1.4	QPSK	1	5	20.25	20.37	20.13	
1.4	QPSK	3	0	20.31	20.36	20.20	
1.4	QPSK	3	1	20.33	20.32	20.34	
1.4	QPSK	3	3	20.34	20.32	20.17	
1.4	QPSK	6	0	20.34	20.33	20.21	21
1.4	16QAM	1	0	20.24	20.30	20.10	21
1.4	16QAM	1	3	20.11	20.33	20.13	
1.4	16QAM	1	5	20.18	20.31	20.16	
1.4	16QAM	3	0	20.27	20.39	20.19	
1.4	16QAM	3	1	20.09	20.34	20.28	
1.4	16QAM	3	3	20.24	20.31	20.32	21
1.4	16QAM	6	0	20.17	20.30	20.31	
1.4	64QAM	1	0	20.25	20.42	20.30	21
1.4	64QAM	1	3	20.29	20.38	20.19	
1.4	64QAM	1	5	20.37	20.38	20.33	
1.4	64QAM	3	0	20.08	20.21	20.20	
1.4	64QAM	3	1	20.09	20.14	20.04	
1.4	64QAM	3	3	20.12	20.19	20.04	
1.4	64QAM	6	0	20.07	20.16	20.04	21
1.4	256QAM	1	0	18.33	18.49	18.44	19
1.4	256QAM	1	3	18.35	18.47	18.25	
1.4	256QAM	1	5	18.33	18.43	18.30	
1.4	256QAM	3	0	18.19	18.22	18.07	
1.4	256QAM	3	1	18.23	18.22	18.09	
1.4	256QAM	3	3	18.12	18.19	18.04	19
1.4	256QAM	6	0	18.21	18.14	18.05	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.13	23.40	23.12	
15	QPSK	1	37	23.16	23.18	23.10	24.5
15	QPSK	1	74	23.15	23.06	22.95	
15	QPSK	36	0	22.33	22.35	22.26	
15	QPSK	36	20	22.32	22.24	22.20	23.5
15	QPSK	36	39	22.30	22.30	22.17	
15	QPSK	75	0	22.31	22.35	22.23	
15	16QAM	1	0	22.51	22.53	22.44	23.5
15	16QAM	1	37	22.60	22.61	22.45	
15	16QAM	1	74	22.49	22.40	22.28	
15	16QAM	36	0	21.28	21.29	21.17	22.5
15	16QAM	36	20	21.32	21.28	21.21	
15	16QAM	36	39	21.31	21.32	21.17	
15	16QAM	75	0	21.32	21.27	21.24	22.5
15	64QAM	1	0	21.33	21.41	21.32	
15	64QAM	1	37	21.43	21.45	21.33	
15	64QAM	1	74	21.34	21.31	21.21	21.5
15	64QAM	36	0	20.25	20.30	20.16	
15	64QAM	36	20	20.32	20.25	20.21	
15	64QAM	36	39	20.30	20.30	20.19	19.5
15	64QAM	75	0	20.33	20.25	20.23	
15	256QAM	1	0	18.45	18.30	18.14	
15	256QAM	1	37	18.27	18.30	18.30	19.5
15	256QAM	1	74	18.33	18.10	18.27	
15	256QAM	36	0	18.16	18.27	18.26	
15	256QAM	36	20	18.15	18.22	18.04	19.5
15	256QAM	36	39	18.33	18.32	18.10	
15	256QAM	75	0	18.25	18.21	18.30	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.32	23.39	23.21	
10	QPSK	1	25	23.35	23.38	23.20	24.5
10	QPSK	1	49	23.32	23.28	23.10	
10	QPSK	25	0	22.32	22.41	22.23	
10	QPSK	25	12	22.41	22.40	22.31	23.5
10	QPSK	25	25	22.37	22.45	22.26	
10	QPSK	50	0	22.38	22.37	22.30	
10	16QAM	1	0	22.84	22.79	22.64	23.5
10	16QAM	1	25	22.73	22.78	22.61	
10	16QAM	1	49	22.80	22.71	22.58	
10	16QAM	25	0	21.31	21.41	21.25	22.5
10	16QAM	25	12	21.43	21.43	21.33	
10	16QAM	25	25	21.41	21.44	21.27	
10	16QAM	50	0	21.39	21.40	21.31	22.5
10	64QAM	1	0	21.59	21.61	21.48	
10	64QAM	1	25	21.62	21.60	21.45	
10	64QAM	1	49	21.58	21.54	21.39	21.5
10	64QAM	25	0	20.32	20.40	20.24	
10	64QAM	25	12	20.40	20.41	20.32	
10	64QAM	25	25	20.39	20.45	20.26	19.5
10	64QAM	50	0	20.39	20.37	20.30	
10	256QAM	1	0	18.37	18.27	18.23	
10	256QAM	1	25	18.33	18.23	18.28	19.5
10	256QAM	1	49	18.29	18.11	18.28	
10	256QAM	25	0	18.14	18.11	18.06	
10	256QAM	25	12	18.27	18.21	18.14	



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10	256QAM	25	25	18.22	18.24	18.14	
10	256QAM	50	0	18.33	18.32	18.26	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.11	23.20	22.95	24.5
5	QPSK	1	12	23.01	23.02	23.00	
5	QPSK	1	24	22.96	22.96	22.79	
5	QPSK	12	0	22.10	22.22	22.14	23.5
5	QPSK	12	7	22.19	22.15	22.16	
5	QPSK	12	13	22.11	22.28	22.11	
5	QPSK	25	0	22.15	22.20	22.08	
5	16QAM	1	0	22.33	22.39	22.32	23.5
5	16QAM	1	12	22.52	22.42	22.35	
5	16QAM	1	24	22.39	22.40	22.13	
5	16QAM	12	0	21.08	21.28	21.13	22.5
5	16QAM	12	7	21.12	21.24	21.13	
5	16QAM	12	13	21.22	21.21	21.01	
5	16QAM	25	0	21.14	21.08	21.13	
5	64QAM	1	0	21.25	21.21	21.25	22.5
5	64QAM	1	12	21.31	21.43	21.21	
5	64QAM	1	24	21.22	21.19	21.13	
5	64QAM	12	0	20.20	20.30	20.14	21.5
5	64QAM	12	7	20.13	20.09	20.11	
5	64QAM	12	13	20.15	20.26	20.04	
5	64QAM	25	0	20.17	20.11	20.15	
5	256QAM	1	0	18.45	18.18	18.16	19.5
5	256QAM	1	12	18.33	18.27	18.15	
5	256QAM	1	24	18.32	18.23	18.28	
5	256QAM	12	0	18.21	18.23	18.25	19.5
5	256QAM	12	7	18.24	18.08	18.08	
5	256QAM	12	13	18.13	18.16	18.12	
5	256QAM	25	0	18.25	18.29	18.15	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.04	23.08	23.01	24.5
3	QPSK	1	8	22.99	23.14	23.08	
3	QPSK	1	14	23.04	22.88	22.91	
3	QPSK	8	0	22.21	22.09	22.06	23.5
3	QPSK	8	4	22.26	22.20	22.04	
3	QPSK	8	7	22.10	22.10	22.16	
3	QPSK	15	0	22.12	22.07	22.22	
3	16QAM	1	0	22.32	22.49	22.25	23.5
3	16QAM	1	8	22.44	22.50	22.29	
3	16QAM	1	14	22.48	22.32	22.25	
3	16QAM	8	0	21.08	21.26	21.03	22.5
3	16QAM	8	4	21.26	21.12	21.13	
3	16QAM	8	7	21.31	21.18	21.06	
3	16QAM	15	0	21.28	21.21	21.05	
3	64QAM	1	0	21.17	21.24	21.20	22.5
3	64QAM	1	8	21.23	21.28	21.26	
3	64QAM	1	14	21.31	21.15	21.15	
3	64QAM	8	0	20.17	20.12	19.96	21.5
3	64QAM	8	4	20.21	20.18	20.13	
3	64QAM	8	7	20.12	20.19	20.01	
3	64QAM	15	0	20.13	20.25	20.06	
3	256QAM	1	0	18.35	18.21	18.28	19.5
3	256QAM	1	8	18.39	18.28	18.16	
3	256QAM	1	14	18.34	18.14	18.28	
3	256QAM	8	0	18.30	18.22	18.23	19.5
3	256QAM	8	4	18.30	18.27	18.05	
3	256QAM	8	7	18.31	18.17	18.24	
3	256QAM	15	0	18.22	18.25	18.20	



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Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.05	23.07	23.08	24.5
1.4	QPSK	1	3	23.10	23.04	23.02	
1.4	QPSK	1	5	22.95	22.91	22.76	
1.4	QPSK	3	0	22.97	23.06	23.09	
1.4	QPSK	3	1	22.99	23.14	23.09	
1.4	QPSK	3	3	23.14	22.88	22.92	
1.4	QPSK	6	0	22.18	22.22	22.17	23.5
1.4	16QAM	1	0	22.29	22.13	22.05	23.5
1.4	16QAM	1	3	22.21	22.21	22.07	
1.4	16QAM	1	5	22.22	22.25	22.08	
1.4	16QAM	3	0	22.31	22.43	22.24	
1.4	16QAM	3	1	22.52	22.56	22.31	
1.4	16QAM	3	3	22.30	22.39	22.11	
1.4	16QAM	6	0	21.23	21.14	21.02	22.5
1.4	64QAM	1	0	21.15	21.09	21.07	22.5
1.4	64QAM	1	3	21.22	21.13	21.06	
1.4	64QAM	1	5	21.13	21.26	21.07	
1.4	64QAM	3	0	21.22	21.23	21.27	
1.4	64QAM	3	1	21.37	21.36	21.16	
1.4	64QAM	3	3	21.25	21.27	21.03	
1.4	64QAM	6	0	20.21	20.18	20.11	21.5
1.4	256QAM	1	0	18.46	18.13	18.31	19.5
1.4	256QAM	1	3	18.33	18.21	18.31	
1.4	256QAM	1	5	18.23	18.17	18.26	
1.4	256QAM	3	0	18.17	18.20	18.10	
1.4	256QAM	3	1	18.32	18.21	18.23	
1.4	256QAM	3	3	18.19	18.33	18.14	
1.4	256QAM	6	0	18.28	18.16	18.21	19.5



<LTE Band 30_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		21.90		23
10	QPSK	1	25		21.45		
10	QPSK	1	49		21.43		
10	QPSK	25	0		20.38		22
10	QPSK	25	12		20.41		
10	QPSK	25	25		20.38		
10	QPSK	50	0		20.37		22
10	16QAM	1	0		20.79		
10	16QAM	1	25		20.83		
10	16QAM	1	49		20.71		21
10	16QAM	25	0		19.38		
10	16QAM	25	12		19.41		
10	16QAM	25	25		19.38		21
10	16QAM	50	0		19.37		
10	64QAM	1	0		19.60		
10	64QAM	1	25		19.64		21
10	64QAM	1	49		19.56		
10	64QAM	25	0		18.38		
10	64QAM	25	12		18.40		20
10	64QAM	25	25		18.37		
10	64QAM	50	0		18.38		
10	256QAM	1	0		17.15		18
10	256QAM	1	25		17.23		
10	256QAM	1	49		17.13		
10	256QAM	25	0		17.24		18
10	256QAM	25	12		17.17		
10	256QAM	25	25		17.30		
10	256QAM	50	0		17.23		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.35	21.34	21.34	23
5	QPSK	1	12	21.44	21.44	21.44	
5	QPSK	1	24	21.35	21.34	21.34	
5	QPSK	12	0	20.34	20.36	20.41	22
5	QPSK	12	7	20.46	20.39	20.44	
5	QPSK	12	13	20.42	20.35	20.41	
5	QPSK	25	0	20.40	20.36	20.39	22
5	16QAM	1	0	20.70	20.79	20.73	
5	16QAM	1	12	20.82	20.80	20.82	
5	16QAM	1	24	20.73	20.70	20.73	21
5	16QAM	12	0	19.39	19.41	19.45	
5	16QAM	12	7	19.48	19.44	19.47	
5	16QAM	12	13	19.47	19.37	19.44	21
5	16QAM	25	0	19.44	19.36	19.42	
5	64QAM	1	0	19.52	19.59	19.63	
5	64QAM	1	12	19.68	19.69	19.64	20
5	64QAM	1	24	19.62	19.59	19.58	
5	64QAM	12	0	18.33	18.39	18.44	
5	64QAM	12	7	18.48	18.41	18.46	18
5	64QAM	12	13	18.44	18.39	18.42	
5	64QAM	25	0	18.42	18.36	18.41	
5	256QAM	1	0	17.28	17.30	17.15	18
5	256QAM	1	12	17.26	17.12	17.23	
5	256QAM	1	24	17.22	17.24	17.22	
5	256QAM	12	0	17.14	17.19	17.22	18
5	256QAM	12	7	17.10	17.25	17.10	
5	256QAM	12	13	17.30	17.17	17.13	
5	256QAM	25	0	17.14	17.20	17.27	



<LTE Band 30_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		21.75		23
10	QPSK	1	25		21.68		
10	QPSK	1	49		21.70		
10	QPSK	25	0		20.90		22
10	QPSK	25	12		20.89		
10	QPSK	25	25		20.83		
10	QPSK	50	0		20.70		22
10	16QAM	1	0		21.35		
10	16QAM	1	25		21.25		
10	16QAM	1	49		21.33		21
10	16QAM	25	0		19.88		
10	16QAM	25	12		19.92		
10	16QAM	25	25		19.92		21
10	16QAM	50	0		19.94		
10	64QAM	1	0		19.93		
10	64QAM	1	25		19.90		21
10	64QAM	1	49		19.88		
10	64QAM	25	0		18.88		
10	64QAM	25	12		18.78		20
10	64QAM	25	25		18.82		
10	64QAM	50	0		18.88		
10	256QAM	1	0		17.11		18
10	256QAM	1	25		17.10		
10	256QAM	1	49		17.10		
10	256QAM	25	0		17.10		18
10	256QAM	25	12		17.06		
10	256QAM	25	25		17.04		
10	256QAM	50	0		16.92		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	21.67	21.71	21.66	23
5	QPSK	1	12	21.70	21.71	21.71	
5	QPSK	1	24	21.69	21.73	21.67	
5	QPSK	12	0	20.84	20.84	20.83	22
5	QPSK	12	7	20.86	20.81	20.86	
5	QPSK	12	13	20.88	20.82	20.85	
5	QPSK	25	0	20.62	20.65	20.68	22
5	16QAM	1	0	21.29	21.25	21.33	
5	16QAM	1	12	21.31	21.34	21.28	
5	16QAM	1	24	21.33	21.26	21.26	21
5	16QAM	12	0	19.93	19.94	19.93	
5	16QAM	12	7	19.87	19.94	19.90	
5	16QAM	12	13	19.91	19.90	19.91	21
5	16QAM	25	0	19.89	19.91	19.85	
5	64QAM	1	0	19.87	19.85	19.84	
5	64QAM	1	12	19.85	19.88	19.92	21
5	64QAM	1	24	19.84	19.90	19.85	
5	64QAM	12	0	18.78	18.80	18.86	
5	64QAM	12	7	18.86	18.79	18.85	20
5	64QAM	12	13	18.86	18.83	18.86	
5	64QAM	25	0	18.85	18.79	18.79	
5	256QAM	1	0	17.06	17.08	17.10	18
5	256QAM	1	12	17.09	17.06	17.10	
5	256QAM	1	24	17.09	17.07	17.01	
5	256QAM	12	0	17.10	17.08	17.04	18
5	256QAM	12	7	17.01	17.04	17.01	
5	256QAM	12	13	17.11	17.09	17.07	
5	256QAM	25	0	16.84	16.85	16.87	



<LTE Band 30_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		13.85		15
10	QPSK	1	25		13.79		
10	QPSK	1	49		13.79		
10	QPSK	25	0		13.61		15
10	QPSK	25	12		13.55		
10	QPSK	25	25		13.69		
10	QPSK	50	0		13.66		15
10	16QAM	1	0		13.81		
10	16QAM	1	25		13.75		
10	16QAM	1	49		13.69		15
10	16QAM	25	0		13.73		
10	16QAM	25	12		13.76		
10	16QAM	25	25		13.62		15
10	16QAM	50	0		13.66		
10	64QAM	1	0		13.68		
10	64QAM	1	25		13.75		15
10	64QAM	1	49		13.65		
10	64QAM	25	0		13.61		
10	64QAM	25	12		13.61		15
10	64QAM	25	25		13.66		
10	64QAM	50	0		13.64		
10	256QAM	1	0		13.53		15
10	256QAM	1	25		13.58		
10	256QAM	1	49		13.45		
10	256QAM	25	0		13.79		15
10	256QAM	25	12		13.76		
10	256QAM	25	25		13.69		
10	256QAM	50	0		13.65		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	13.66	13.78	13.63	15
5	QPSK	1	12	13.46	13.70	13.60	
5	QPSK	1	24	13.57	13.66	13.56	
5	QPSK	12	0	13.32	13.48	13.44	15
5	QPSK	12	7	13.25	13.37	13.29	
5	QPSK	12	13	13.35	13.64	13.50	
5	QPSK	25	0	13.40	13.60	13.38	15
5	16QAM	1	0	13.49	13.69	13.54	
5	16QAM	1	12	13.47	13.68	13.47	
5	16QAM	1	24	13.33	13.60	13.44	15
5	16QAM	12	0	13.55	13.62	13.53	
5	16QAM	12	7	13.56	13.74	13.55	
5	16QAM	12	13	13.40	13.56	13.37	15
5	16QAM	25	0	13.34	13.57	13.41	
5	64QAM	1	0	13.43	13.61	13.46	
5	64QAM	1	12	13.41	13.69	13.57	15
5	64QAM	1	24	13.36	13.59	13.41	
5	64QAM	12	0	13.38	13.51	13.44	
5	64QAM	12	7	13.31	13.43	13.37	15
5	64QAM	12	13	13.34	13.56	13.38	
5	64QAM	25	0	13.32	13.58	13.34	
5	256QAM	1	0	13.22	13.42	13.28	15
5	256QAM	1	12	13.29	13.56	13.35	
5	256QAM	1	24	13.25	13.39	13.19	
5	256QAM	12	0	13.52	13.63	13.55	15
5	256QAM	12	7	13.43	13.64	13.54	
5	256QAM	12	13	13.39	13.53	13.37	
5	256QAM	25	0	13.47	13.53	13.39	



<LTE Band 30_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		20.23		21
10	QPSK	1	25		20.22		
10	QPSK	1	49		20.17		
10	QPSK	25	0		19.94		21
10	QPSK	25	12		19.90		
10	QPSK	25	25		19.92		
10	QPSK	50	0		19.95		21
10	16QAM	1	0		20.19		
10	16QAM	1	25		20.11		
10	16QAM	1	49		20.16		21
10	16QAM	25	0		19.92		
10	16QAM	25	12		19.88		
10	16QAM	25	25		19.89		21
10	16QAM	50	0		19.90		
10	64QAM	1	0		20.00		
10	64QAM	1	25		20.00		21
10	64QAM	1	49		19.91		
10	64QAM	25	0		18.90		
10	64QAM	25	12		18.82		20
10	64QAM	25	25		18.85		
10	64QAM	50	0		18.92		
10	256QAM	1	0		17.17		18
10	256QAM	1	25		17.16		
10	256QAM	1	49		17.08		
10	256QAM	25	0		16.90		18
10	256QAM	25	12		16.82		
10	256QAM	25	25		16.89		
10	256QAM	50	0		16.95		
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.21	20.20	20.18	21
5	QPSK	1	12	20.17	20.13	20.20	
5	QPSK	1	24	20.13	20.12	20.15	
5	QPSK	12	0	19.91	19.86	19.92	21
5	QPSK	12	7	19.83	19.84	19.88	
5	QPSK	12	13	19.84	19.92	19.84	
5	QPSK	25	0	19.89	19.85	19.92	21
5	16QAM	1	0	20.09	20.12	20.12	
5	16QAM	1	12	20.03	20.10	20.01	
5	16QAM	1	24	20.06	20.11	20.13	21
5	16QAM	12	0	19.84	19.90	19.85	
5	16QAM	12	7	19.84	19.79	19.88	
5	16QAM	12	13	19.87	19.82	19.84	21
5	16QAM	25	0	19.86	19.84	19.80	
5	64QAM	1	0	19.92	19.90	19.90	
5	64QAM	1	12	19.92	19.93	19.93	21
5	64QAM	1	24	19.91	19.88	19.87	
5	64QAM	12	0	18.90	18.84	18.88	
5	64QAM	12	7	18.82	18.72	18.77	20
5	64QAM	12	13	18.77	18.81	18.84	
5	64QAM	25	0	18.88	18.85	18.88	
5	256QAM	1	0	17.17	17.11	17.12	18
5	256QAM	1	12	17.10	17.12	17.10	
5	256QAM	1	24	17.01	17.08	16.98	
5	256QAM	12	0	16.82	16.88	16.90	18
5	256QAM	12	7	16.79	16.74	16.78	
5	256QAM	12	13	16.80	16.84	16.84	
5	256QAM	25	0	16.89	16.95	16.93	



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<LTE Band 66_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	24
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.33	23.50	23.48	
20	QPSK	1	49	23.10	23.25	23.28	23
20	QPSK	1	99	23.03	23.21	23.10	
20	QPSK	50	0	22.20	22.42	22.34	
20	QPSK	50	24	22.17	22.36	22.26	23
20	QPSK	50	50	22.22	22.41	22.40	
20	QPSK	100	0	22.15	22.14	22.41	
20	16QAM	1	0	22.50	22.83	22.60	23
20	16QAM	1	49	22.45	22.54	22.66	
20	16QAM	1	99	22.49	22.82	22.94	
20	16QAM	50	0	21.04	21.27	21.42	22
20	16QAM	50	24	21.24	21.18	21.23	
20	16QAM	50	50	21.22	21.30	21.33	
20	16QAM	100	0	21.19	21.30	21.16	22
20	64QAM	1	0	21.56	21.85	21.42	
20	64QAM	1	49	21.40	21.41	21.38	
20	64QAM	1	99	21.39	21.41	21.41	21
20	64QAM	50	0	20.18	20.34	20.26	
20	64QAM	50	24	20.19	20.26	20.29	
20	64QAM	50	50	20.25	20.46	20.35	19
20	64QAM	100	0	20.23	20.30	20.32	
20	256QAM	1	0	18.27	18.15	18.29	
20	256QAM	1	49	18.23	18.20	18.19	19
20	256QAM	1	99	18.17	18.09	18.11	
20	256QAM	50	0	18.18	18.19	18.06	
20	256QAM	50	24	18.23	18.28	18.23	19
20	256QAM	50	50	18.22	18.20	18.14	
20	256QAM	100	0	18.06	18.09	18.04	
Channel				132047	132322	132597	24
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.22	23.31	23.28	
15	QPSK	1	37	22.95	23.11	23.28	23
15	QPSK	1	74	22.94	23.01	22.86	
15	QPSK	36	0	22.07	22.23	22.14	
15	QPSK	36	20	21.98	22.36	22.18	23
15	QPSK	36	39	22.14	22.24	22.20	
15	QPSK	75	0	22.01	22.04	22.31	
15	16QAM	1	0	22.48	22.79	22.35	23
15	16QAM	1	37	22.49	22.50	22.62	
15	16QAM	1	74	22.30	22.67	22.60	
15	16QAM	36	0	20.96	21.26	21.27	22
15	16QAM	36	20	21.20	21.02	21.11	
15	16QAM	36	39	21.14	21.11	21.30	
15	16QAM	75	0	20.99	21.26	20.96	22
15	64QAM	1	0	21.48	21.58	21.35	
15	64QAM	1	37	21.36	21.36	21.34	
15	64QAM	1	74	21.26	21.40	21.25	21
15	64QAM	36	0	19.98	20.18	20.20	
15	64QAM	36	20	20.07	20.21	20.26	
15	64QAM	36	39	20.06	20.38	20.18	19
15	64QAM	75	0	20.22	20.19	20.29	
15	256QAM	1	0	18.08	18.05	18.29	
15	256QAM	1	37	18.10	18.03	18.04	19
15	256QAM	1	74	17.99	18.07	17.96	
15	256QAM	36	0	18.00	18.19	17.94	
15	256QAM	36	20	18.04	18.13	18.21	19



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15	256QAM	36	39	18.08	18.19	18.04	
15	256QAM	75	0	18.01	18.09	17.92	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.31	23.38	23.28	24
10	QPSK	1	25	22.96	23.11	23.28	
10	QPSK	1	49	22.93	23.07	22.95	
10	QPSK	25	0	22.10	22.32	22.26	23
10	QPSK	25	12	22.14	22.24	22.17	
10	QPSK	25	25	22.22	22.39	22.25	
10	QPSK	50	0	22.05	22.05	22.37	
10	16QAM	1	0	22.45	22.57	22.25	23
10	16QAM	1	25	22.32	22.41	22.59	
10	16QAM	1	49	22.35	22.74	22.56	22
10	16QAM	25	0	20.87	21.07	21.34	
10	16QAM	25	12	21.17	21.09	21.15	
10	16QAM	25	25	21.15	21.22	21.32	
10	16QAM	50	0	21.16	21.11	21.02	22
10	64QAM	1	0	21.49	21.55	21.15	
10	64QAM	1	25	21.39	21.30	21.18	
10	64QAM	1	49	21.28	21.30	21.38	
10	64QAM	25	0	20.04	20.20	20.17	21
10	64QAM	25	12	20.16	20.15	20.21	
10	64QAM	25	25	20.12	20.44	20.15	
10	64QAM	50	0	20.10	20.24	20.19	
10	256QAM	1	0	18.11	18.04	18.13	19
10	256QAM	1	25	18.05	18.00	18.10	
10	256QAM	1	49	18.17	17.92	18.08	
10	256QAM	25	0	17.99	18.03	17.88	19
10	256QAM	25	12	18.05	18.17	18.06	
10	256QAM	25	25	18.12	18.14	18.09	
10	256QAM	50	0	17.89	17.93	17.93	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.28	23.25	23.25	24
5	QPSK	1	12	23.16	23.11	23.14	
5	QPSK	1	24	23.13	23.17	22.79	
5	QPSK	12	0	22.05	22.29	22.17	23
5	QPSK	12	7	22.02	22.20	22.24	
5	QPSK	12	13	22.20	22.32	22.38	
5	QPSK	25	0	22.05	22.08	22.33	
5	16QAM	1	0	22.43	22.72	22.31	23
5	16QAM	1	12	22.30	22.45	22.51	
5	16QAM	1	24	22.44	22.66	22.65	
5	16QAM	12	0	20.92	21.24	21.41	22
5	16QAM	12	7	21.20	21.08	21.21	
5	16QAM	12	13	21.14	21.25	21.27	
5	16QAM	25	0	21.19	21.13	20.97	
5	64QAM	1	0	21.47	21.48	21.12	22
5	64QAM	1	12	21.33	21.20	21.19	
5	64QAM	1	24	21.21	21.08	21.25	
5	64QAM	12	0	20.15	20.27	20.07	21
5	64QAM	12	7	20.14	20.14	20.11	
5	64QAM	12	13	20.14	20.28	20.21	
5	64QAM	25	0	20.12	20.26	20.30	
5	256QAM	1	0	18.07	18.09	18.14	19
5	256QAM	1	12	18.18	18.03	18.02	
5	256QAM	1	24	18.16	18.08	18.08	
5	256QAM	12	0	17.99	18.07	17.98	19
5	256QAM	12	7	18.12	18.20	18.05	
5	256QAM	12	13	18.14	18.14	18.05	
5	256QAM	25	0	17.97	17.89	17.87	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.32	23.26	23.32	24
3	QPSK	1	8	23.01	23.15	23.21	
3	QPSK	1	14	22.96	23.20	22.89	
3	QPSK	8	0	22.02	22.41	22.24	23
3	QPSK	8	4	22.00	22.19	22.08	
3	QPSK	8	7	22.05	22.27	22.21	
3	QPSK	15	0	22.01	22.11	22.36	
3	16QAM	1	0	22.35	22.67	22.30	23
3	16QAM	1	8	22.24	22.37	22.56	
3	16QAM	1	14	22.44	22.65	22.71	
3	16QAM	8	0	21.00	21.11	21.31	22
3	16QAM	8	4	21.11	21.01	21.07	
3	16QAM	8	7	21.02	21.29	21.13	
3	16QAM	15	0	21.04	21.24	21.00	
3	64QAM	1	0	21.50	21.52	21.12	22
3	64QAM	1	8	21.29	21.02	21.27	
3	64QAM	1	14	21.27	21.08	21.28	
3	64QAM	8	0	20.03	20.16	20.25	21
3	64QAM	8	4	20.17	20.06	20.27	
3	64QAM	8	7	20.13	20.28	20.33	
3	64QAM	15	0	20.21	20.22	20.19	
3	256QAM	1	0	18.27	18.06	18.14	19
3	256QAM	1	8	18.09	18.11	18.13	
3	256QAM	1	14	17.99	17.93	18.03	
3	256QAM	8	0	18.00	18.10	18.01	19
3	256QAM	8	4	18.23	18.15	18.19	
3	256QAM	8	7	18.10	18.09	18.07	
3	256QAM	15	0	18.00	18.05	17.95	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.26	23.21	23.28	24
1.4	QPSK	1	3	22.94	23.14	23.28	
1.4	QPSK	1	5	22.94	23.16	22.96	
1.4	QPSK	3	0	23.23	23.23	23.37	
1.4	QPSK	3	1	23.01	23.22	23.14	
1.4	QPSK	3	3	22.96	23.11	22.95	
1.4	QPSK	6	0	22.00	22.40	22.33	23
1.4	16QAM	1	0	22.00	22.24	22.19	23
1.4	16QAM	1	3	22.12	22.28	22.32	
1.4	16QAM	1	5	21.95	22.09	22.23	
1.4	16QAM	3	0	22.40	22.46	22.41	
1.4	16QAM	3	1	22.22	22.54	22.36	
1.4	16QAM	3	3	22.45	22.71	22.60	22
1.4	16QAM	6	0	21.30	21.15	21.34	
1.4	64QAM	1	0	21.20	21.13	21.21	22
1.4	64QAM	1	3	21.04	21.25	21.27	
1.4	64QAM	1	5	21.02	21.13	21.03	
1.4	64QAM	3	0	21.52	21.48	21.08	
1.4	64QAM	3	1	21.26	21.05	21.29	
1.4	64QAM	3	3	21.27	21.11	21.28	
1.4	64QAM	6	0	20.18	20.11	20.28	21
1.4	256QAM	1	0	18.10	18.03	18.09	19
1.4	256QAM	1	3	18.03	18.07	18.00	
1.4	256QAM	1	5	18.01	18.03	17.95	
1.4	256QAM	3	0	18.02	18.19	17.86	
1.4	256QAM	3	1	18.04	18.21	18.16	
1.4	256QAM	3	3	18.04	18.20	17.97	
1.4	256QAM	6	0	17.87	18.07	17.97	19



<LTE Band 66_Ant 0_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.95	21.09	21.05	22
20	QPSK	1	49	20.93	20.99	20.79	
20	QPSK	1	99	20.73	20.94	20.76	
20	QPSK	50	0	19.92	19.97	19.93	21
20	QPSK	50	24	19.90	19.95	19.86	
20	QPSK	50	50	19.89	19.96	19.80	
20	QPSK	100	0	19.91	19.93	19.78	21
20	16QAM	1	0	20.39	20.28	20.15	
20	16QAM	1	49	20.23	20.20	19.96	
20	16QAM	1	99	20.05	20.36	20.35	20
20	16QAM	50	0	18.76	18.97	18.84	
20	16QAM	50	24	18.93	18.88	18.87	
20	16QAM	50	50	18.85	18.96	18.88	20
20	16QAM	100	0	19.00	18.93	18.89	
20	64QAM	1	0	19.03	19.04	18.85	
20	64QAM	1	49	19.10	19.01	19.02	19
20	64QAM	1	99	18.94	18.65	18.73	
20	64QAM	50	0	17.80	17.84	17.89	
20	64QAM	50	24	17.94	18.01	17.85	17
20	64QAM	50	50	17.93	17.93	17.91	
20	64QAM	100	0	17.82	17.96	17.76	
20	256QAM	1	0	15.86	15.98	15.90	17
20	256QAM	1	49	15.99	15.81	15.84	
20	256QAM	1	99	15.87	15.88	15.89	
20	256QAM	50	0	16.00	15.86	15.82	17
20	256QAM	50	24	15.80	15.84	15.84	
20	256QAM	50	50	15.92	15.98	15.96	
20	256QAM	100	0	15.87	15.88	16.00	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.80	20.85	20.81	22
15	QPSK	1	37	20.83	20.92	20.90	
15	QPSK	1	74	20.86	20.85	20.73	
15	QPSK	36	0	19.84	19.90	19.87	21
15	QPSK	36	20	19.89	19.87	19.84	
15	QPSK	36	39	19.88	19.91	19.89	
15	QPSK	75	0	19.92	19.87	19.83	21
15	16QAM	1	0	20.15	20.21	20.18	
15	16QAM	1	37	20.20	20.27	20.24	
15	16QAM	1	74	20.16	20.14	20.07	20
15	16QAM	36	0	18.84	18.91	18.86	
15	16QAM	36	20	18.91	18.88	18.83	
15	16QAM	36	39	18.88	18.92	18.89	20
15	16QAM	75	0	18.91	18.85	18.83	
15	64QAM	1	0	19.08	19.12	19.03	
15	64QAM	1	37	19.07	19.17	19.10	19
15	64QAM	1	74	19.02	19.09	18.96	
15	64QAM	36	0	17.82	17.89	17.86	
15	64QAM	36	20	17.89	17.86	17.83	17
15	64QAM	36	39	17.88	17.90	17.89	
15	64QAM	75	0	17.89	17.86	17.83	
15	256QAM	1	0	15.95	15.80	15.99	17
15	256QAM	1	37	15.87	15.97	15.97	
15	256QAM	1	74	15.86	15.96	15.95	
15	256QAM	36	0	15.91	16.00	15.95	17
15	256QAM	36	20	16.00	15.85	15.94	



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15	256QAM	36	39	15.91	15.99	15.99	
15	256QAM	75	0	15.88	15.90	15.86	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.92	20.97	20.92	22
10	QPSK	1	25	20.99	21.04	20.98	
10	QPSK	1	49	20.92	20.96	20.92	
10	QPSK	25	0	19.96	20.03	19.97	21
10	QPSK	25	12	20.07	20.03	19.99	
10	QPSK	25	25	20.03	20.05	20.02	
10	QPSK	50	0	20.03	19.99	20.04	
10	16QAM	1	0	20.31	20.30	20.30	21
10	16QAM	1	25	20.28	20.37	20.29	
10	16QAM	1	49	20.25	20.29	20.29	
10	16QAM	25	0	18.99	19.02	18.99	20
10	16QAM	25	12	19.08	19.05	18.99	
10	16QAM	25	25	19.05	19.05	19.04	
10	16QAM	50	0	19.05	19.00	19.04	
10	64QAM	1	0	19.11	19.18	19.12	20
10	64QAM	1	25	19.16	19.25	19.18	
10	64QAM	1	49	19.16	19.12	19.17	
10	64QAM	25	0	17.98	18.02	17.96	19
10	64QAM	25	12	18.06	18.03	18.00	
10	64QAM	25	25	18.05	18.09	18.04	
10	64QAM	50	0	18.05	18.02	18.03	
10	256QAM	1	0	15.83	15.83	15.95	17
10	256QAM	1	25	15.93	15.92	15.94	
10	256QAM	1	49	15.81	15.84	16.00	
10	256QAM	25	0	15.96	15.86	15.85	17
10	256QAM	25	12	15.96	15.97	15.84	
10	256QAM	25	25	15.98	15.92	15.80	
10	256QAM	50	0	15.97	15.91	15.82	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.89	20.96	20.90	22
5	QPSK	1	12	20.99	21.06	21.03	
5	QPSK	1	24	20.90	20.97	20.90	
5	QPSK	12	0	19.90	20.00	19.93	21
5	QPSK	12	7	20.01	20.01	20.02	
5	QPSK	12	13	19.96	20.07	19.99	
5	QPSK	25	0	19.96	19.97	20.00	
5	16QAM	1	0	20.23	20.28	20.24	21
5	16QAM	1	12	20.33	20.41	20.36	
5	16QAM	1	24	20.25	20.26	20.22	
5	16QAM	12	0	18.92	19.03	18.95	20
5	16QAM	12	7	19.03	19.02	19.09	
5	16QAM	12	13	18.99	19.08	19.03	
5	16QAM	25	0	18.98	19.00	19.03	
5	64QAM	1	0	19.07	19.16	19.12	20
5	64QAM	1	12	19.21	19.25	19.14	
5	64QAM	1	24	19.11	19.19	19.10	
5	64QAM	12	0	17.89	18.00	17.94	19
5	64QAM	12	7	18.02	18.06	18.06	
5	64QAM	12	13	18.01	18.07	18.04	
5	64QAM	25	0	17.95	18.01	18.00	
5	256QAM	1	0	15.96	15.93	15.93	17
5	256QAM	1	12	15.99	15.90	15.86	
5	256QAM	1	24	15.98	15.86	15.80	
5	256QAM	12	0	15.98	15.85	15.95	17
5	256QAM	12	7	15.83	15.93	15.88	
5	256QAM	12	13	15.85	15.90	15.88	
5	256QAM	25	0	15.96	15.97	15.91	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.89	20.93	20.90	22
3	QPSK	1	8	20.92	20.94	20.77	
3	QPSK	1	14	20.58	20.84	20.59	
3	QPSK	8	0	19.82	19.74	19.77	21
3	QPSK	8	4	19.80	19.86	19.85	
3	QPSK	8	7	19.69	19.80	19.80	
3	QPSK	15	0	19.89	19.82	19.64	
3	16QAM	1	0	20.23	20.26	19.98	21
3	16QAM	1	8	20.09	20.18	19.95	
3	16QAM	1	14	20.00	20.31	20.34	
3	16QAM	8	0	18.64	18.94	18.79	20
3	16QAM	8	4	18.76	18.83	18.70	
3	16QAM	8	7	18.67	18.79	18.71	
3	16QAM	15	0	18.86	18.90	18.86	
3	64QAM	1	0	18.88	18.94	18.82	20
3	64QAM	1	8	18.92	18.90	19.00	
3	64QAM	1	14	18.79	18.62	18.70	
3	64QAM	8	0	17.76	17.81	17.77	19
3	64QAM	8	4	17.77	17.96	17.71	
3	64QAM	8	7	17.80	17.88	17.82	
3	64QAM	15	0	17.77	17.88	17.60	
3	256QAM	1	0	15.84	15.88	15.81	17
3	256QAM	1	8	15.80	15.86	15.94	
3	256QAM	1	14	16.00	15.89	15.84	
3	256QAM	8	0	15.95	15.90	16.00	17
3	256QAM	8	4	15.96	15.91	15.93	
3	256QAM	8	7	15.85	15.91	15.94	
3	256QAM	15	0	15.87	15.90	15.84	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.85	20.96	20.92	22
1.4	QPSK	1	3	20.92	20.99	20.94	
1.4	QPSK	1	5	20.88	20.95	20.92	
1.4	QPSK	3	0	20.91	20.99	20.97	
1.4	QPSK	3	1	20.93	21.00	20.97	
1.4	QPSK	3	3	20.91	21.00	20.96	
1.4	QPSK	6	0	19.92	20.03	19.98	21
1.4	16QAM	1	0	20.22	20.34	20.27	21
1.4	16QAM	1	3	20.26	20.35	20.30	
1.4	16QAM	1	5	20.24	20.33	20.23	
1.4	16QAM	3	0	20.02	20.11	20.11	
1.4	16QAM	3	1	20.07	20.16	20.12	
1.4	16QAM	3	3	20.04	20.12	20.09	20
1.4	16QAM	6	0	18.95	19.06	19.04	
1.4	64QAM	1	0	19.06	19.05	19.08	
1.4	64QAM	1	3	19.11	19.19	19.18	20
1.4	64QAM	1	5	19.07	19.18	19.09	
1.4	64QAM	3	0	18.99	19.12	19.04	
1.4	64QAM	3	1	19.01	19.07	19.07	
1.4	64QAM	3	3	19.01	19.12	19.06	19
1.4	64QAM	6	0	17.95	18.08	18.01	
1.4	256QAM	1	0	15.92	15.95	15.91	
1.4	256QAM	1	3	15.81	15.82	15.93	17
1.4	256QAM	1	5	15.82	15.95	15.92	
1.4	256QAM	3	0	15.92	15.95	15.99	
1.4	256QAM	3	1	15.99	15.80	15.96	
1.4	256QAM	3	3	15.99	15.91	15.99	17
1.4	256QAM	6	0	15.85	15.82	15.90	



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<LTE Band 66_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	24
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.08	23.11	23.01	
20	QPSK	1	49	22.92	22.95	22.88	23
20	QPSK	1	99	22.85	22.94	22.93	
20	QPSK	50	0	22.04	22.12	22.04	
20	QPSK	50	24	21.98	22.03	21.96	23
20	QPSK	50	50	21.91	21.98	21.94	
20	QPSK	100	0	22.06	22.11	22.02	
20	16QAM	1	0	21.75	21.83	21.76	23
20	16QAM	1	49	21.82	21.84	21.80	
20	16QAM	1	99	21.95	21.96	21.91	
20	16QAM	50	0	21.09	21.14	21.08	22
20	16QAM	50	24	21.16	21.19	21.09	
20	16QAM	50	50	21.00	21.05	20.98	
20	16QAM	100	0	21.03	21.09	21.03	22
20	64QAM	1	0	21.24	21.32	21.26	
20	64QAM	1	49	21.20	21.28	21.19	
20	64QAM	1	99	21.15	21.25	21.24	21
20	64QAM	50	0	20.02	20.11	20.05	
20	64QAM	50	24	19.96	19.96	19.96	
20	64QAM	50	50	19.99	20.03	20.00	19
20	64QAM	100	0	19.97	19.99	19.91	
20	256QAM	1	0	18.42	18.45	18.44	
20	256QAM	1	49	18.25	18.25	18.23	19
20	256QAM	1	99	18.22	18.30	18.22	
20	256QAM	50	0	18.18	18.21	18.17	
20	256QAM	50	24	18.12	18.19	18.18	19
20	256QAM	50	50	18.19	18.20	18.20	
20	256QAM	100	0	17.99	18.07	18.06	
Channel				132047	132322	132597	24
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.98	23.08	22.97	
15	QPSK	1	37	22.89	22.87	22.86	23
15	QPSK	1	74	22.76	22.87	22.90	
15	QPSK	36	0	22.03	22.10	21.98	
15	QPSK	36	20	21.97	22.03	21.86	23
15	QPSK	36	39	21.90	21.97	21.84	
15	QPSK	75	0	22.00	22.08	21.97	
15	16QAM	1	0	21.67	21.83	21.66	23
15	16QAM	1	37	21.79	21.82	21.78	
15	16QAM	1	74	21.95	21.95	21.88	
15	16QAM	36	0	21.08	21.09	21.08	22
15	16QAM	36	20	21.10	21.15	21.06	
15	16QAM	36	39	20.90	20.97	20.98	
15	16QAM	75	0	21.00	21.04	20.99	22
15	64QAM	1	0	21.19	21.29	21.20	
15	64QAM	1	37	21.20	21.22	21.19	
15	64QAM	1	74	21.12	21.19	21.19	21
15	64QAM	36	0	19.93	20.06	19.98	
15	64QAM	36	20	19.88	19.90	19.91	
15	64QAM	36	39	19.98	19.96	19.90	19
15	64QAM	75	0	19.90	19.96	19.89	
15	256QAM	1	0	18.40	18.43	18.42	
15	256QAM	1	37	18.22	18.22	18.19	19
15	256QAM	1	74	18.18	18.28	18.14	
15	256QAM	36	0	18.13	18.14	18.14	
15	256QAM	36	20	18.06	18.18	18.17	19



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15	256QAM	36	39	18.10	18.16	18.12	Tune-up limit (dBm)
15	256QAM	75	0	17.96	18.03	18.03	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.04	23.03	22.97	24
10	QPSK	1	25	22.85	22.89	22.87	
10	QPSK	1	49	22.75	22.84	22.92	
10	QPSK	25	0	21.98	22.07	22.03	23
10	QPSK	25	12	21.97	22.03	21.89	
10	QPSK	25	25	21.88	21.97	21.89	
10	QPSK	50	0	21.96	22.09	22.01	
10	16QAM	1	0	21.65	21.78	21.66	23
10	16QAM	1	25	21.80	21.81	21.75	
10	16QAM	1	49	21.86	21.89	21.82	
10	16QAM	25	0	21.01	21.12	21.05	22
10	16QAM	25	12	21.15	21.18	21.07	
10	16QAM	25	25	20.91	20.97	20.90	
10	16QAM	50	0	20.99	21.04	21.03	
10	64QAM	1	0	21.18	21.28	21.23	22
10	64QAM	1	25	21.18	21.20	21.09	
10	64QAM	1	49	21.11	21.18	21.15	
10	64QAM	25	0	20.00	20.07	19.95	21
10	64QAM	25	12	19.96	19.91	19.87	
10	64QAM	25	25	19.96	20.01	19.98	
10	64QAM	50	0	19.93	19.90	19.91	
10	256QAM	1	0	18.33	18.37	18.39	19
10	256QAM	1	25	18.24	18.22	18.20	
10	256QAM	1	49	18.12	18.28	18.19	
10	256QAM	25	0	18.08	18.11	18.09	19
10	256QAM	25	12	18.08	18.11	18.12	
10	256QAM	25	25	18.13	18.14	18.19	
10	256QAM	50	0	17.95	18.05	17.98	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.99	23.09	22.91	24
5	QPSK	1	12	22.91	22.90	22.82	
5	QPSK	1	24	22.83	22.88	22.92	
5	QPSK	12	0	21.94	22.11	22.03	23
5	QPSK	12	7	21.91	22.02	21.87	
5	QPSK	12	13	21.85	21.97	21.87	
5	QPSK	25	0	22.00	22.04	21.95	
5	16QAM	1	0	21.73	21.79	21.73	23
5	16QAM	1	12	21.78	21.75	21.80	
5	16QAM	1	24	21.92	21.87	21.83	
5	16QAM	12	0	21.09	21.07	21.05	22
5	16QAM	12	7	21.06	21.14	21.03	
5	16QAM	12	13	20.98	21.03	20.97	
5	16QAM	25	0	20.96	21.08	21.00	
5	64QAM	1	0	21.18	21.26	21.21	22
5	64QAM	1	12	21.11	21.18	21.14	
5	64QAM	1	24	21.05	21.19	21.23	
5	64QAM	12	0	19.93	20.02	20.01	21
5	64QAM	12	7	19.95	19.88	19.92	
5	64QAM	12	13	19.90	19.94	19.93	
5	64QAM	25	0	19.89	19.99	19.82	
5	256QAM	1	0	18.38	18.38	18.43	19
5	256QAM	1	12	18.23	18.20	18.20	
5	256QAM	1	24	18.21	18.23	18.19	
5	256QAM	12	0	18.13	18.18	18.08	19
5	256QAM	12	7	18.11	18.14	18.15	
5	256QAM	12	13	18.11	18.18	18.17	
5	256QAM	25	0	17.93	18.01	18.02	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.03	23.03	22.93	24
3	QPSK	1	8	22.91	22.92	22.83	
3	QPSK	1	14	22.84	22.90	22.90	
3	QPSK	8	0	22.02	22.03	21.99	23
3	QPSK	8	4	21.88	21.96	21.93	
3	QPSK	8	7	21.91	21.98	21.91	
3	QPSK	15	0	21.97	22.06	22.01	
3	16QAM	1	0	21.74	21.81	21.73	23
3	16QAM	1	8	21.78	21.75	21.71	
3	16QAM	1	14	21.90	21.93	21.85	
3	16QAM	8	0	21.08	21.12	20.99	22
3	16QAM	8	4	21.14	21.09	21.03	
3	16QAM	8	7	20.95	21.01	20.97	
3	16QAM	15	0	21.01	21.02	21.01	
3	64QAM	1	0	21.20	21.28	21.16	22
3	64QAM	1	8	21.17	21.19	21.13	
3	64QAM	1	14	21.09	21.23	21.15	
3	64QAM	8	0	19.96	20.04	19.99	21
3	64QAM	8	4	19.95	19.86	19.88	
3	64QAM	8	7	19.96	20.00	19.99	
3	64QAM	15	0	19.94	19.99	19.83	
3	256QAM	1	0	18.35	18.37	18.43	19
3	256QAM	1	8	18.16	18.16	18.19	
3	256QAM	1	14	18.17	18.21	18.14	
3	256QAM	8	0	18.14	18.15	18.07	19
3	256QAM	8	4	18.03	18.16	18.08	
3	256QAM	8	7	18.19	18.16	18.16	
3	256QAM	15	0	17.97	18.01	17.98	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.99	23.06	22.91	24
1.4	QPSK	1	3	22.85	22.92	22.78	
1.4	QPSK	1	5	22.82	22.85	22.93	
1.4	QPSK	3	0	22.90	22.90	22.78	
1.4	QPSK	3	1	22.86	22.92	22.87	
1.4	QPSK	3	3	22.78	22.90	22.83	
1.4	QPSK	6	0	22.01	22.02	22.02	23
1.4	16QAM	1	0	21.96	21.94	21.87	23
1.4	16QAM	1	3	21.82	21.98	21.87	
1.4	16QAM	1	5	22.01	22.04	21.98	
1.4	16QAM	3	0	21.74	21.79	21.69	
1.4	16QAM	3	1	21.79	21.81	21.70	
1.4	16QAM	3	3	21.85	21.87	21.87	22
1.4	16QAM	6	0	21.07	21.14	21.06	
1.4	64QAM	1	0	21.11	21.13	21.00	
1.4	64QAM	1	3	20.98	21.00	20.95	
1.4	64QAM	1	5	20.99	21.07	21.01	22
1.4	64QAM	3	0	21.15	21.23	21.25	
1.4	64QAM	3	1	21.15	21.28	21.11	
1.4	64QAM	3	3	21.09	21.22	21.22	
1.4	64QAM	6	0	19.99	20.04	20.04	
1.4	256QAM	1	0	18.42	18.44	18.37	19
1.4	256QAM	1	3	18.18	18.24	18.20	
1.4	256QAM	1	5	18.14	18.30	18.12	
1.4	256QAM	3	0	18.18	18.21	18.10	
1.4	256QAM	3	1	18.02	18.18	18.09	
1.4	256QAM	3	3	18.17	18.11	18.15	19
1.4	256QAM	6	0	17.97	18.06	18.00	



<LTE Band 66_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	14
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	13.25	13.41	13.32	
20	QPSK	1	49	13.06	13.30	13.18	14
20	QPSK	1	99	13.16	13.38	13.20	
20	QPSK	50	0	13.20	13.36	13.24	
20	QPSK	50	24	13.15	13.35	13.16	14
20	QPSK	50	50	13.19	13.34	13.23	
20	QPSK	100	0	13.13	13.39	13.22	
20	16QAM	1	0	12.99	13.22	13.06	14
20	16QAM	1	49	13.14	13.34	13.22	
20	16QAM	1	99	13.12	13.37	13.18	
20	16QAM	50	0	13.12	13.34	13.19	14
20	16QAM	50	24	13.17	13.36	13.27	
20	16QAM	50	50	13.03	13.28	13.13	
20	16QAM	100	0	13.04	13.22	13.08	14
20	64QAM	1	0	12.95	13.21	13.12	
20	64QAM	1	49	12.95	13.17	13.06	
20	64QAM	1	99	12.87	13.05	12.90	14
20	64QAM	50	0	13.19	13.39	13.23	
20	64QAM	50	24	13.19	13.35	13.22	
20	64QAM	50	50	13.09	13.28	13.18	14
20	64QAM	100	0	13.19	13.40	13.26	
20	256QAM	1	0	13.24	13.40	13.26	
20	256QAM	1	49	13.12	13.38	13.20	14
20	256QAM	1	99	13.16	13.34	13.16	
20	256QAM	50	0	13.01	13.25	13.08	
20	256QAM	50	24	13.01	13.18	13.02	14
20	256QAM	50	50	12.99	13.17	13.07	
20	256QAM	100	0	12.94	13.10	12.94	
Channel				132047	132322	132597	14
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	13.22	13.33	13.27	
15	QPSK	1	37	12.96	13.12	13.19	14
15	QPSK	1	74	13.13	13.31	13.15	
15	QPSK	36	0	13.11	13.26	13.19	
15	QPSK	36	20	13.11	13.19	13.13	14
15	QPSK	36	39	13.12	13.26	13.16	
15	QPSK	75	0	13.14	13.25	13.20	
15	16QAM	1	0	12.95	13.06	13.09	14
15	16QAM	1	37	13.01	13.32	13.18	
15	16QAM	1	74	13.13	13.28	13.19	
15	16QAM	36	0	13.04	13.24	13.15	14
15	16QAM	36	20	13.12	13.28	13.18	
15	16QAM	36	39	13.10	13.24	13.09	
15	16QAM	75	0	12.99	13.08	13.04	14
15	64QAM	1	0	12.94	13.05	12.93	
15	64QAM	1	37	12.88	13.05	12.92	
15	64QAM	1	74	12.83	13.02	12.89	14
15	64QAM	36	0	13.17	13.30	13.16	
15	64QAM	36	20	13.04	13.22	13.09	
15	64QAM	36	39	13.12	13.10	13.12	14
15	64QAM	75	0	13.19	13.28	13.17	
15	256QAM	1	0	13.23	13.32	13.14	
15	256QAM	1	37	13.08	13.34	13.22	14
15	256QAM	1	74	13.05	13.21	13.20	
15	256QAM	36	0	12.95	13.15	13.09	
15	256QAM	36	20	12.86	13.05	12.96	14



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15	256QAM	36	39	12.84	13.13	12.96	
15	256QAM	75	0	12.86	12.97	12.94	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	13.18	13.36	13.30	14
10	QPSK	1	25	13.07	13.19	13.15	
10	QPSK	1	49	13.16	13.36	13.19	
10	QPSK	25	0	13.18	13.26	13.12	14
10	QPSK	25	12	13.12	13.25	13.15	
10	QPSK	25	25	13.16	13.30	13.17	
10	QPSK	50	0	13.10	13.36	13.23	
10	16QAM	1	0	12.86	13.13	13.10	14
10	16QAM	1	25	13.08	13.28	13.25	
10	16QAM	1	49	13.14	13.26	13.22	
10	16QAM	25	0	13.10	13.24	13.14	14
10	16QAM	25	12	13.07	13.23	13.11	
10	16QAM	25	25	12.96	13.15	13.16	
10	16QAM	50	0	12.99	13.05	12.99	
10	64QAM	1	0	12.98	13.04	13.01	14
10	64QAM	1	25	12.84	13.08	13.01	
10	64QAM	1	49	12.79	12.97	12.88	
10	64QAM	25	0	13.14	13.32	13.26	14
10	64QAM	25	12	13.11	13.21	13.12	
10	64QAM	25	25	12.99	13.22	13.08	
10	64QAM	50	0	13.21	13.25	13.24	
10	256QAM	1	0	13.10	13.34	13.22	14
10	256QAM	1	25	13.14	13.22	13.14	
10	256QAM	1	49	13.16	13.20	13.24	
10	256QAM	25	0	12.98	13.25	13.14	14
10	256QAM	25	12	12.89	12.98	13.05	
10	256QAM	25	25	12.91	13.07	12.98	
10	256QAM	50	0	12.79	13.08	12.95	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	13.16	13.32	13.29	14
5	QPSK	1	12	13.07	13.26	13.18	
5	QPSK	1	24	13.12	13.32	13.23	
5	QPSK	12	0	13.07	13.22	13.12	14
5	QPSK	12	7	13.06	13.35	13.13	
5	QPSK	12	13	13.13	13.39	13.21	
5	QPSK	25	0	13.08	13.29	13.24	
5	16QAM	1	0	12.92	13.14	13.08	14
5	16QAM	1	12	13.07	13.30	13.10	
5	16QAM	1	24	13.18	13.31	13.18	
5	16QAM	12	0	13.14	13.28	13.15	14
5	16QAM	12	7	13.15	13.29	13.16	
5	16QAM	12	13	13.02	13.19	13.11	
5	16QAM	25	0	13.01	13.15	13.09	
5	64QAM	1	0	12.99	13.18	13.00	14
5	64QAM	1	12	12.92	12.99	13.00	
5	64QAM	1	24	12.84	13.02	12.82	
5	64QAM	12	0	13.13	13.34	13.13	14
5	64QAM	12	7	13.09	13.23	13.14	
5	64QAM	12	13	12.99	13.12	13.08	
5	64QAM	25	0	13.13	13.30	13.22	
5	256QAM	1	0	13.19	13.29	13.21	14
5	256QAM	1	12	13.14	13.30	13.09	
5	256QAM	1	24	13.13	13.23	13.15	
5	256QAM	12	0	13.04	13.21	13.08	14
5	256QAM	12	7	12.99	13.09	12.98	
5	256QAM	12	13	12.96	13.11	13.00	
5	256QAM	25	0	12.87	12.98	12.93	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	13.24	13.36	13.24	14
3	QPSK	1	8	13.03	13.20	13.11	
3	QPSK	1	14	13.15	13.28	13.19	
3	QPSK	8	0	13.06	13.26	13.23	14
3	QPSK	8	4	13.13	13.26	13.11	
3	QPSK	8	7	13.13	13.28	13.26	
3	QPSK	15	0	13.17	13.27	13.14	14
3	16QAM	1	0	12.98	13.08	12.98	
3	16QAM	1	8	13.15	13.21	13.12	
3	16QAM	1	14	13.09	13.29	13.20	14
3	16QAM	8	0	13.09	13.22	13.24	
3	16QAM	8	4	13.09	13.23	13.16	
3	16QAM	8	7	13.02	13.23	13.00	14
3	16QAM	15	0	13.00	13.11	13.05	
3	64QAM	1	0	12.88	13.07	12.96	
3	64QAM	1	8	12.87	13.13	12.95	14
3	64QAM	1	14	12.79	12.92	12.87	
3	64QAM	8	0	13.19	13.24	13.24	
3	64QAM	8	4	13.10	13.23	13.20	14
3	64QAM	8	7	13.01	13.14	13.18	
3	64QAM	15	0	13.18	13.34	13.18	
3	256QAM	1	0	13.13	13.40	13.19	14
3	256QAM	1	8	13.18	13.26	13.14	
3	256QAM	1	14	13.10	13.31	13.20	
3	256QAM	8	0	12.94	13.16	13.07	14
3	256QAM	8	4	12.97	13.06	12.95	
3	256QAM	8	7	12.84	13.09	12.97	
3	256QAM	15	0	12.76	13.10	12.89	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	13.20	13.39	13.28	14
1.4	QPSK	1	3	13.08	13.20	13.13	
1.4	QPSK	1	5	13.13	13.32	13.25	
1.4	QPSK	3	0	13.13	13.19	13.20	
1.4	QPSK	3	1	13.04	13.24	13.09	
1.4	QPSK	3	3	13.12	13.29	13.22	
1.4	QPSK	6	0	13.16	13.26	13.14	14
1.4	16QAM	1	0	12.97	13.13	12.98	14
1.4	16QAM	1	3	13.01	13.28	13.15	
1.4	16QAM	1	5	13.05	13.21	13.16	
1.4	16QAM	3	0	13.06	13.28	13.14	
1.4	16QAM	3	1	13.11	13.21	13.17	
1.4	16QAM	3	3	12.94	13.17	13.18	14
1.4	16QAM	6	0	12.94	13.13	13.13	
1.4	64QAM	1	0	13.00	13.15	13.12	14
1.4	64QAM	1	3	12.94	13.11	13.02	
1.4	64QAM	1	5	12.75	12.90	12.83	
1.4	64QAM	3	0	13.13	13.22	13.25	
1.4	64QAM	3	1	13.14	13.24	13.11	
1.4	64QAM	3	3	12.98	13.15	12.99	14
1.4	64QAM	6	0	13.09	13.27	13.17	
1.4	256QAM	1	0	13.12	13.34	13.21	14
1.4	256QAM	1	3	13.10	13.30	13.12	
1.4	256QAM	1	5	13.13	13.27	13.19	
1.4	256QAM	3	0	13.05	13.06	13.09	
1.4	256QAM	3	1	12.93	13.11	12.99	
1.4	256QAM	3	3	12.85	12.99	12.96	14
1.4	256QAM	6	0	12.84	13.02	12.85	



<LTE Band 66_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.82	20.97	20.89	
20	QPSK	1	49	20.87	20.91	20.80	21
20	QPSK	1	99	20.91	20.92	20.77	
20	QPSK	50	0	20.94	20.95	20.85	
20	QPSK	50	24	20.93	20.88	20.80	21
20	QPSK	50	50	20.90	20.93	20.80	
20	QPSK	100	0	20.76	20.79	20.72	
20	16QAM	1	0	20.74	20.69	20.71	21
20	16QAM	1	49	20.73	20.74	20.76	
20	16QAM	1	99	20.68	20.72	20.77	
20	16QAM	50	0	20.78	20.71	20.73	21
20	16QAM	50	24	20.73	20.76	20.71	
20	16QAM	50	50	20.74	20.71	20.72	
20	16QAM	100	0	20.72	20.80	20.80	21
20	64QAM	1	0	20.72	20.79	20.78	
20	64QAM	1	49	20.76	20.71	20.78	
20	64QAM	1	99	20.78	20.71	20.70	20.5
20	64QAM	50	0	19.89	19.87	19.90	
20	64QAM	50	24	19.82	19.88	19.89	
20	64QAM	50	50	19.87	19.82	19.87	18.5
20	64QAM	100	0	19.90	19.92	19.88	
20	256QAM	1	0	18.02	17.99	17.94	
20	256QAM	1	49	18.01	17.93	17.94	18.5
20	256QAM	1	99	17.96	18.00	17.95	
20	256QAM	50	0	17.93	17.95	18.03	
20	256QAM	50	24	17.93	17.93	17.99	18.5
20	256QAM	50	50	17.95	17.96	18.00	
20	256QAM	100	0	17.93	18.03	17.96	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.73	20.95	20.84	
15	QPSK	1	37	20.82	20.86	20.79	21
15	QPSK	1	74	20.85	20.91	20.70	
15	QPSK	36	0	20.91	20.91	20.82	21
15	QPSK	36	20	20.87	20.78	20.80	
15	QPSK	36	39	20.80	20.83	20.74	
15	QPSK	75	0	20.73	20.77	20.67	21
15	16QAM	1	0	20.64	20.60	20.68	
15	16QAM	1	37	20.63	20.71	20.70	
15	16QAM	1	74	20.61	20.71	20.67	21
15	16QAM	36	0	20.72	20.68	20.72	
15	16QAM	36	20	20.70	20.73	20.71	
15	16QAM	36	39	20.65	20.70	20.71	21
15	16QAM	75	0	20.64	20.75	20.70	
15	64QAM	1	0	20.69	20.73	20.71	
15	64QAM	1	37	20.75	20.66	20.71	20.5
15	64QAM	1	74	20.71	20.63	20.64	
15	64QAM	36	0	19.80	19.78	19.89	
15	64QAM	36	20	19.74	19.84	19.86	18.5
15	64QAM	36	39	19.84	19.80	19.82	
15	64QAM	75	0	19.84	19.83	19.85	
15	256QAM	1	0	17.93	17.90	17.91	18.5
15	256QAM	1	37	17.98	17.85	17.85	
15	256QAM	1	74	17.87	17.91	17.89	
15	256QAM	36	0	17.84	17.87	17.95	18.5
15	256QAM	36	20	17.88	17.87	17.99	



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15	256QAM	36	39	17.90	17.93	17.94	
15	256QAM	75	0	17.89	17.98	17.88	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.73	20.87	20.80	21
10	QPSK	1	25	20.82	20.88	20.72	
10	QPSK	1	49	20.91	20.89	20.69	
10	QPSK	25	0	20.85	20.95	20.78	21
10	QPSK	25	12	20.85	20.85	20.72	
10	QPSK	25	25	20.85	20.93	20.71	
10	QPSK	50	0	20.70	20.69	20.64	
10	16QAM	1	0	20.72	20.69	20.67	21
10	16QAM	1	25	20.68	20.66	20.67	
10	16QAM	1	49	20.63	20.70	20.74	
10	16QAM	25	0	20.72	20.69	20.68	21
10	16QAM	25	12	20.68	20.70	20.69	
10	16QAM	25	25	20.68	20.66	20.70	
10	16QAM	50	0	20.68	20.80	20.75	
10	64QAM	1	0	20.65	20.71	20.76	21
10	64QAM	1	25	20.74	20.63	20.78	
10	64QAM	1	49	20.69	20.70	20.65	
10	64QAM	25	0	19.79	19.80	19.88	20.5
10	64QAM	25	12	19.72	19.83	19.80	
10	64QAM	25	25	19.78	19.72	19.84	
10	64QAM	50	0	19.82	19.89	19.81	
10	256QAM	1	0	17.97	17.90	17.89	18.5
10	256QAM	1	25	17.96	17.90	17.89	
10	256QAM	1	49	17.91	17.96	17.90	
10	256QAM	25	0	17.86	17.85	17.93	18.5
10	256QAM	25	12	17.85	17.85	17.92	
10	256QAM	25	25	17.94	17.95	17.94	
10	256QAM	50	0	17.89	18.02	17.90	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.75	20.92	20.87	21
5	QPSK	1	12	20.81	20.88	20.72	
5	QPSK	1	24	20.81	20.92	20.73	
5	QPSK	12	0	20.93	20.94	20.82	21
5	QPSK	12	7	20.87	20.82	20.77	
5	QPSK	12	13	20.82	20.86	20.77	
5	QPSK	25	0	20.74	20.76	20.63	
5	16QAM	1	0	20.67	20.66	20.61	21
5	16QAM	1	12	20.67	20.71	20.69	
5	16QAM	1	24	20.59	20.62	20.72	
5	16QAM	12	0	20.73	20.64	20.70	21
5	16QAM	12	7	20.73	20.75	20.67	
5	16QAM	12	13	20.65	20.67	20.72	
5	16QAM	25	0	20.64	20.76	20.75	
5	64QAM	1	0	20.72	20.79	20.74	21
5	64QAM	1	12	20.73	20.61	20.76	
5	64QAM	1	24	20.76	20.71	20.63	
5	64QAM	12	0	19.84	19.79	19.88	20.5
5	64QAM	12	7	19.81	19.79	19.89	
5	64QAM	12	13	19.83	19.79	19.81	
5	64QAM	25	0	19.82	19.82	19.82	
5	256QAM	1	0	17.95	17.97	17.85	18.5
5	256QAM	1	12	17.91	17.84	17.85	
5	256QAM	1	24	17.91	17.93	17.89	
5	256QAM	12	0	17.86	17.88	18.00	18.5
5	256QAM	12	7	17.91	17.89	17.97	
5	256QAM	12	13	17.85	17.87	17.97	
5	256QAM	25	0	17.83	17.96	17.95	



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Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.72	20.90	20.80	21
3	QPSK	1	8	20.87	20.91	20.76	
3	QPSK	1	14	20.83	20.83	20.71	
3	QPSK	8	0	20.90	20.85	20.82	21
3	QPSK	8	4	20.93	20.83	20.76	
3	QPSK	8	7	20.87	20.87	20.78	
3	QPSK	15	0	20.70	20.76	20.63	21
3	16QAM	1	0	20.70	20.66	20.70	
3	16QAM	1	8	20.68	20.67	20.71	
3	16QAM	1	14	20.65	20.65	20.67	21
3	16QAM	8	0	20.77	20.63	20.71	
3	16QAM	8	4	20.66	20.73	20.63	
3	16QAM	8	7	20.68	20.63	20.70	21
3	16QAM	15	0	20.69	20.75	20.78	
3	64QAM	1	0	20.63	20.76	20.70	
3	64QAM	1	8	20.70	20.62	20.70	21
3	64QAM	1	14	20.71	20.71	20.66	
3	64QAM	8	0	19.83	19.84	19.88	
3	64QAM	8	4	19.79	19.87	19.86	20.5
3	64QAM	8	7	19.80	19.80	19.81	
3	64QAM	15	0	19.84	19.84	19.87	
3	256QAM	1	0	17.99	17.92	17.87	18.5
3	256QAM	1	8	17.91	17.88	17.91	
3	256QAM	1	14	17.92	17.92	17.87	
3	256QAM	8	0	17.88	17.95	18.02	18.5
3	256QAM	8	4	17.83	17.86	17.92	
3	256QAM	8	7	17.95	17.96	17.97	
3	256QAM	15	0	17.93	17.95	17.92	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	20.72	20.92	20.84	21
1.4	QPSK	1	3	20.78	20.91	20.74	
1.4	QPSK	1	5	20.89	20.83	20.67	
1.4	QPSK	3	0	20.75	20.89	20.88	
1.4	QPSK	3	1	20.83	20.88	20.76	
1.4	QPSK	3	3	20.83	20.90	20.70	
1.4	QPSK	6	0	20.94	20.94	20.80	21
1.4	16QAM	1	0	20.93	20.87	20.79	21
1.4	16QAM	1	3	20.88	20.92	20.73	
1.4	16QAM	1	5	20.68	20.79	20.66	
1.4	16QAM	3	0	20.65	20.66	20.63	
1.4	16QAM	3	1	20.68	20.74	20.73	
1.4	16QAM	3	3	20.67	20.68	20.68	21
1.4	16QAM	6	0	20.78	20.67	20.73	
1.4	64QAM	1	0	20.69	20.68	20.70	21
1.4	64QAM	1	3	20.74	20.65	20.71	
1.4	64QAM	1	5	20.66	20.73	20.75	
1.4	64QAM	3	0	20.65	20.73	20.72	
1.4	64QAM	3	1	20.68	20.70	20.75	
1.4	64QAM	3	3	20.70	20.70	20.63	20.5
1.4	64QAM	6	0	19.84	19.77	19.81	
1.4	256QAM	1	0	17.98	17.95	17.85	18.5
1.4	256QAM	1	3	17.94	17.86	17.91	
1.4	256QAM	1	5	17.95	17.98	17.90	
1.4	256QAM	3	0	17.83	17.93	17.99	
1.4	256QAM	3	1	17.92	17.88	17.92	
1.4	256QAM	3	3	17.91	17.87	17.90	18.5
1.4	256QAM	6	0	17.89	18.02	17.94	



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<LTE Band 71_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				133222	133297	133372	
Frequency (MHz)				673	680.5	688	
20	QPSK	1	0	23.39	23.40	23.38	
20	QPSK	1	49	23.12	23.24	22.98	24
20	QPSK	1	99	23.01	23.02	22.97	
20	QPSK	50	0	22.33	22.30	22.16	
20	QPSK	50	24	22.33	22.33	22.14	23
20	QPSK	50	50	22.32	22.17	22.03	
20	QPSK	100	0	22.42	22.05	22.09	
20	16QAM	1	0	22.39	22.48	22.54	23
20	16QAM	1	49	22.49	22.41	22.49	
20	16QAM	1	99	22.56	22.43	22.35	
20	16QAM	50	0	21.37	21.28	21.12	22
20	16QAM	50	24	21.25	21.15	21.11	
20	16QAM	50	50	21.37	21.27	20.96	
20	16QAM	100	0	21.15	21.30	21.19	22
20	64QAM	1	0	21.46	21.42	21.31	
20	64QAM	1	49	21.61	21.22	21.52	
20	64QAM	1	99	21.24	21.28	21.12	21
20	64QAM	50	0	20.39	20.42	20.05	
20	64QAM	50	24	20.32	20.33	20.05	
20	64QAM	50	50	20.36	20.28	20.21	19
20	64QAM	100	0	20.31	20.23	20.22	
20	256QAM	1	0	18.39	18.35	18.35	
20	256QAM	1	49	18.23	18.38	18.25	19
20	256QAM	1	99	18.28	18.29	18.33	
20	256QAM	50	0	18.20	18.40	18.33	
20	256QAM	50	24	18.40	18.34	18.38	19
20	256QAM	50	50	18.32	18.37	18.26	
20	256QAM	100	0	18.25	18.40	18.26	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.25	23.23	23.22	24
15	QPSK	1	37	23.07	23.20	22.85	
15	QPSK	1	74	22.96	22.99	22.89	
15	QPSK	36	0	22.15	22.27	22.11	23
15	QPSK	36	20	22.32	22.26	21.98	
15	QPSK	36	39	22.23	22.08	21.99	
15	QPSK	75	0	22.36	21.90	21.96	23
15	16QAM	1	0	22.19	22.40	22.48	
15	16QAM	1	37	22.49	22.38	22.31	
15	16QAM	1	74	22.45	22.29	22.17	22
15	16QAM	36	0	21.22	21.08	21.10	
15	16QAM	36	20	21.24	21.03	21.08	
15	16QAM	36	39	21.17	21.11	20.92	22
15	16QAM	75	0	20.99	21.24	21.10	
15	64QAM	1	0	21.32	21.23	21.12	
15	64QAM	1	37	21.55	21.14	21.37	21
15	64QAM	1	74	21.07	21.12	21.09	
15	64QAM	36	0	20.38	20.42	20.10	
15	64QAM	36	20	20.25	20.14	20.15	19
15	64QAM	36	39	20.24	20.25	20.18	
15	64QAM	75	0	20.24	20.15	20.13	
15	256QAM	1	0	18.30	18.21	18.23	19
15	256QAM	1	37	18.17	18.35	18.18	
15	256QAM	1	74	18.22	18.26	18.31	
15	256QAM	36	0	18.13	18.36	18.17	19
15	256QAM	36	20	18.25	18.14	18.27	
15	256QAM	36	39	18.28	18.29	18.09	
15	256QAM	75	0	18.24	18.38	18.21	



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Channel				133172	133297	133422	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	QPSK	1	0	23.26	23.29	23.26	24
10	QPSK	1	25	23.03	23.19	22.97	
10	QPSK	1	49	22.98	22.95	22.86	
10	QPSK	25	0	22.20	22.20	22.01	23
10	QPSK	25	12	22.20	22.22	22.10	
10	QPSK	25	25	22.15	22.00	21.89	
10	QPSK	50	0	22.32	21.98	21.96	23
10	16QAM	1	0	22.32	22.38	22.46	
10	16QAM	1	25	22.41	22.40	22.31	
10	16QAM	1	49	22.43	22.29	22.24	22
10	16QAM	25	0	21.28	21.27	21.00	
10	16QAM	25	12	21.13	21.06	20.99	
10	16QAM	25	25	21.18	21.08	20.82	22
10	16QAM	50	0	21.15	21.23	21.11	
10	64QAM	1	0	21.45	21.33	21.30	
10	64QAM	1	25	21.48	21.20	21.38	22
10	64QAM	1	49	21.13	21.09	21.12	
10	64QAM	25	0	20.20	20.31	20.00	
10	64QAM	25	12	20.18	20.22	19.86	21
10	64QAM	25	25	20.19	20.10	20.04	
10	64QAM	50	0	20.26	20.19	20.16	
10	256QAM	1	0	18.38	18.34	18.25	19
10	256QAM	1	25	18.03	18.25	18.15	
10	256QAM	1	49	18.15	18.22	18.26	
10	256QAM	25	0	18.06	18.39	18.19	19
10	256QAM	25	12	18.22	18.17	18.35	
10	256QAM	25	25	18.28	18.29	18.06	
10	256QAM	50	0	18.19	18.27	18.12	
Channel				133147	133297	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	QPSK	1	0	23.39	23.26	23.27	24
5	QPSK	1	12	22.98	23.09	22.92	
5	QPSK	1	24	23.01	22.90	22.96	
5	QPSK	12	0	22.26	22.18	21.96	23
5	QPSK	12	7	22.19	22.15	22.08	
5	QPSK	12	13	22.23	22.04	21.96	
5	QPSK	25	0	22.27	21.90	21.99	23
5	16QAM	1	0	22.28	22.33	22.51	
5	16QAM	1	12	22.30	22.33	22.39	
5	16QAM	1	24	22.48	22.42	22.21	22
5	16QAM	12	0	21.31	21.27	21.08	
5	16QAM	12	7	21.07	21.00	21.02	
5	16QAM	12	13	21.36	21.13	21.01	22
5	16QAM	25	0	21.08	21.29	21.01	
5	64QAM	1	0	21.38	21.30	21.27	
5	64QAM	1	12	21.41	21.13	21.44	22
5	64QAM	1	24	21.23	21.23	20.98	
5	64QAM	12	0	20.19	20.40	19.97	
5	64QAM	12	7	20.27	20.23	19.92	21
5	64QAM	12	13	20.26	20.27	20.13	
5	64QAM	25	0	20.24	20.11	20.04	
5	256QAM	1	0	18.33	18.34	18.29	19
5	256QAM	1	12	18.17	18.26	18.17	
5	256QAM	1	24	18.27	18.14	18.19	
5	256QAM	12	0	18.18	18.26	18.14	19
5	256QAM	12	7	18.35	18.30	18.29	
5	256QAM	12	13	18.24	18.19	18.21	
5	256QAM	25	0	18.12	18.36	18.20	

<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 Base station simulator was used for LTE output power measurements and SAR testing.

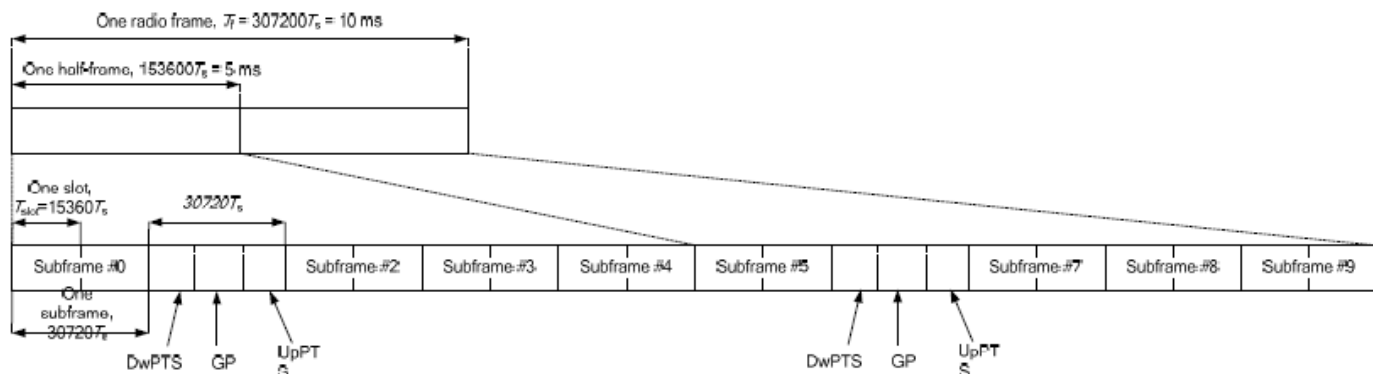


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



<LTE Band 38_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.95	23.12	23.10	24
20	QPSK	1	49	22.66	22.89	22.95	
20	QPSK	1	99	22.65	22.66	22.83	
20	QPSK	50	0	21.82	21.99	22.02	23
20	QPSK	50	24	21.95	21.91	22.08	
20	QPSK	50	50	22.07	22.03	22.09	
20	QPSK	100	0	21.84	21.98	21.90	23
20	16QAM	1	0	21.77	21.73	22.01	
20	16QAM	1	49	21.64	21.75	22.05	
20	16QAM	1	99	21.87	22.02	22.07	22
20	16QAM	50	0	20.82	21.01	20.95	
20	16QAM	50	24	21.09	21.10	21.08	
20	16QAM	50	50	20.97	21.13	20.99	22
20	16QAM	100	0	20.97	20.92	20.93	
20	64QAM	1	0	21.17	21.04	20.93	
20	64QAM	1	49	20.90	20.93	20.97	21
20	64QAM	1	99	21.04	20.98	21.04	
20	64QAM	50	0	19.80	19.89	19.82	
20	64QAM	50	24	20.12	19.98	20.01	19
20	64QAM	50	50	20.01	19.95	20.06	
20	64QAM	100	0	19.92	19.81	20.02	
20	256QAM	1	0	17.96	18.16	18.31	19
20	256QAM	1	49	18.02	18.04	17.99	
20	256QAM	1	99	18.18	18.22	18.22	
20	256QAM	50	0	18.11	18.09	18.23	19
20	256QAM	50	24	18.11	18.17	18.21	
20	256QAM	50	50	18.16	18.21	18.26	
20	256QAM	100	0	18.02	18.08	18.09	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.81	22.99	23.07	24
15	QPSK	1	37	22.66	22.87	22.80	
15	QPSK	1	74	22.76	22.67	22.66	
15	QPSK	36	0	21.65	21.80	21.94	23
15	QPSK	36	20	21.95	21.87	21.93	
15	QPSK	36	39	22.01	21.91	22.04	
15	QPSK	75	0	21.84	21.88	21.80	23
15	16QAM	1	0	21.74	21.67	21.92	
15	16QAM	1	37	21.53	21.65	21.87	
15	16QAM	1	74	21.80	21.92	21.97	22
15	16QAM	36	0	20.80	20.86	20.76	
15	16QAM	36	20	20.92	20.94	20.89	
15	16QAM	36	39	20.95	21.03	20.93	22
15	16QAM	75	0	20.78	20.76	20.85	
15	64QAM	1	0	20.98	21.00	20.74	
15	64QAM	1	37	20.83	20.84	20.85	21
15	64QAM	1	74	20.91	20.80	20.93	
15	64QAM	36	0	19.77	19.79	19.81	
15	64QAM	36	20	19.98	19.94	20.00	19
15	64QAM	36	39	20.00	19.94	19.91	
15	64QAM	75	0	19.80	19.63	19.98	
15	256QAM	1	0	17.79	18.03	18.29	19
15	256QAM	1	37	17.93	18.01	17.79	
15	256QAM	1	74	18.06	18.17	18.13	
15	256QAM	36	0	18.06	17.98	18.08	19
15	256QAM	36	20	17.98	18.07	18.17	



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15	256QAM	36	39	18.04	18.09	18.26	
15	256QAM	75	0	17.93	17.99	18.09	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.93	22.97	23.04	24
10	QPSK	1	25	22.58	22.69	22.75	
10	QPSK	1	49	22.59	22.66	22.68	
10	QPSK	25	0	21.77	21.88	21.96	23
10	QPSK	25	12	21.90	21.81	21.96	
10	QPSK	25	25	21.92	21.99	22.00	
10	QPSK	50	0	21.64	21.96	21.70	
10	16QAM	1	0	21.73	21.53	21.91	23
10	16QAM	1	25	21.52	21.62	21.96	
10	16QAM	1	49	21.81	21.91	21.91	22
10	16QAM	25	0	20.78	20.93	20.94	
10	16QAM	25	12	20.89	20.97	20.94	
10	16QAM	25	25	20.83	21.12	20.87	
10	16QAM	50	0	20.97	20.89	20.83	22
10	64QAM	1	0	21.08	20.99	20.92	
10	64QAM	1	25	20.73	20.83	20.93	
10	64QAM	1	49	20.94	20.81	21.02	21
10	64QAM	25	0	19.62	19.83	19.79	
10	64QAM	25	12	19.94	19.94	19.95	
10	64QAM	25	25	19.89	19.87	19.89	
10	64QAM	50	0	19.86	19.66	19.87	19
10	256QAM	1	0	17.79	18.14	18.26	
10	256QAM	1	25	17.88	18.03	17.79	
10	256QAM	1	49	18.16	18.15	18.05	
10	256QAM	25	0	18.06	17.92	18.16	19
10	256QAM	25	12	17.94	18.14	18.20	
10	256QAM	25	25	18.15	18.07	18.06	
10	256QAM	50	0	17.83	17.92	18.06	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.87	23.09	23.03	24
5	QPSK	1	12	22.74	22.80	22.83	
5	QPSK	1	24	22.60	22.75	22.64	
5	QPSK	12	0	21.65	21.93	21.96	23
5	QPSK	12	7	21.89	21.73	22.03	
5	QPSK	12	13	22.00	21.89	22.01	
5	QPSK	25	0	21.65	21.95	21.83	
5	16QAM	1	0	21.59	21.66	21.95	23
5	16QAM	1	12	21.61	21.58	21.89	
5	16QAM	1	24	21.68	21.86	21.93	
5	16QAM	12	0	20.76	20.94	20.76	22
5	16QAM	12	7	20.98	20.92	21.04	
5	16QAM	12	13	20.77	21.08	20.79	
5	16QAM	25	0	20.86	20.90	20.92	
5	64QAM	1	0	21.11	20.97	20.91	22
5	64QAM	1	12	20.76	20.83	20.87	
5	64QAM	1	24	20.87	20.85	20.96	
5	64QAM	12	0	19.62	19.81	19.70	21
5	64QAM	12	7	19.96	19.89	19.87	
5	64QAM	12	13	19.83	19.83	19.88	
5	64QAM	25	0	19.77	19.65	19.88	
5	256QAM	1	0	17.77	17.99	18.21	19
5	256QAM	1	12	17.89	17.87	17.79	
5	256QAM	1	24	18.07	18.06	18.07	
5	256QAM	12	0	18.06	17.90	18.20	19
5	256QAM	12	7	17.99	18.17	18.14	
5	256QAM	12	13	18.02	18.03	18.26	
5	256QAM	25	0	17.91	18.01	17.98	



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<LTE Band 38_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.37	23.35	23.48	
20	QPSK	1	49	23.20	23.11	23.10	24
20	QPSK	1	99	23.12	23.17	23.18	
20	QPSK	50	0	21.95	22.02	22.02	
20	QPSK	50	24	21.99	21.94	21.93	23
20	QPSK	50	50	22.01	21.92	22.00	
20	QPSK	100	0	21.97	21.93	21.99	
20	16QAM	1	0	21.96	21.93	21.99	23
20	16QAM	1	49	21.94	21.94	21.98	
20	16QAM	1	99	21.97	21.97	22.01	
20	16QAM	50	0	21.05	21.08	21.04	22
20	16QAM	50	24	21.05	21.07	21.06	
20	16QAM	50	50	21.01	20.99	21.05	
20	16QAM	100	0	21.03	20.98	21.02	22
20	64QAM	1	0	21.02	20.99	20.99	
20	64QAM	1	49	21.00	21.08	21.00	
20	64QAM	1	99	21.06	21.08	20.98	21
20	64QAM	50	0	19.97	20.06	19.96	
20	64QAM	50	24	19.97	20.02	19.97	
20	64QAM	50	50	20.02	20.02	20.04	21
20	64QAM	100	0	20.06	20.02	20.02	
20	256QAM	1	0	18.02	18.06	18.04	19
20	256QAM	1	49	18.08	18.04	18.07	
20	256QAM	1	99	18.09	18.04	18.10	
20	256QAM	50	0	18.07	18.10	18.03	19
20	256QAM	50	24	18.07	18.03	18.09	
20	256QAM	50	50	18.05	18.06	18.10	
20	256QAM	100	0	18.04	18.04	18.08	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.36	23.32	23.42	24
15	QPSK	1	37	23.16	23.10	23.07	
15	QPSK	1	74	23.08	23.15	23.09	
15	QPSK	36	0	21.95	21.99	21.99	23
15	QPSK	36	20	21.93	21.86	21.83	
15	QPSK	36	39	21.98	21.85	21.99	
15	QPSK	75	0	21.91	21.89	21.93	23
15	16QAM	1	0	21.93	21.84	21.97	
15	16QAM	1	37	21.90	21.84	21.96	
15	16QAM	1	74	21.96	21.91	21.95	22
15	16QAM	36	0	20.95	21.03	21.02	
15	16QAM	36	20	20.97	21.07	21.05	
15	16QAM	36	39	20.96	20.94	20.97	22
15	16QAM	75	0	21.01	20.98	21.01	
15	64QAM	1	0	20.92	20.97	20.98	
15	64QAM	1	37	20.95	20.98	20.94	21
15	64QAM	1	74	20.98	21.03	20.96	
15	64QAM	36	0	19.87	20.05	19.92	
15	64QAM	36	20	19.95	19.94	19.94	19
15	64QAM	36	39	20.01	20.00	20.00	
15	64QAM	75	0	19.97	19.99	19.97	
15	256QAM	1	0	17.96	18.01	18.04	19
15	256QAM	1	37	17.99	18.03	17.99	
15	256QAM	1	74	18.08	17.98	18.02	
15	256QAM	36	0	17.99	18.04	18.02	19
15	256QAM	36	20	18.01	18.01	17.99	
15	256QAM	36	39	17.97	18.03	18.09	
15	256QAM	75	0	18.02	17.99	18.07	



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Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.31	23.30	23.39	24
10	QPSK	1	25	23.19	23.07	23.07	
10	QPSK	1	49	23.08	23.07	23.10	
10	QPSK	25	0	21.92	22.01	21.92	23
10	QPSK	25	12	21.93	21.85	21.86	
10	QPSK	25	25	21.95	21.89	21.92	
10	QPSK	50	0	21.91	21.91	21.91	23
10	16QAM	1	0	21.95	21.85	21.90	
10	16QAM	1	25	21.84	21.86	21.97	
10	16QAM	1	49	21.95	21.89	21.96	22
10	16QAM	25	0	21.04	20.99	20.98	
10	16QAM	25	12	21.01	20.98	20.99	
10	16QAM	25	25	20.92	20.92	20.98	22
10	16QAM	50	0	20.94	20.97	20.96	
10	64QAM	1	0	21.00	20.95	20.95	
10	64QAM	1	25	20.90	21.08	20.90	22
10	64QAM	1	49	21.02	20.99	20.89	
10	64QAM	25	0	19.91	20.01	19.96	
10	64QAM	25	12	19.91	19.94	19.93	21
10	64QAM	25	25	19.98	20.01	20.00	
10	64QAM	50	0	20.00	19.95	19.96	
10	256QAM	1	0	17.94	18.01	18.00	19
10	256QAM	1	25	18.03	17.99	18.01	
10	256QAM	1	49	18.07	18.00	18.00	
10	256QAM	25	0	18.01	18.04	18.03	19
10	256QAM	25	12	18.02	17.99	18.03	
10	256QAM	25	25	18.03	18.05	18.03	
10	256QAM	50	0	17.94	17.97	18.04	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.36	23.29	23.46	24
5	QPSK	1	12	23.12	23.04	23.04	
5	QPSK	1	24	23.04	23.10	23.11	
5	QPSK	12	0	21.95	21.98	22.00	23
5	QPSK	12	7	21.98	21.92	21.89	
5	QPSK	12	13	21.91	21.90	21.94	
5	QPSK	25	0	21.89	21.88	21.97	23
5	16QAM	1	0	21.91	21.89	21.94	
5	16QAM	1	12	21.86	21.92	21.90	
5	16QAM	1	24	21.92	21.92	21.99	22
5	16QAM	12	0	20.97	20.99	21.04	
5	16QAM	12	7	21.03	21.00	21.01	
5	16QAM	12	13	21.00	20.99	21.05	22
5	16QAM	25	0	21.03	20.95	20.94	
5	64QAM	1	0	20.92	20.90	20.89	
5	64QAM	1	12	20.92	21.08	20.95	22
5	64QAM	1	24	21.06	21.00	20.88	
5	64QAM	12	0	19.93	19.97	19.90	
5	64QAM	12	7	19.96	20.01	19.95	21
5	64QAM	12	13	19.95	20.00	19.99	
5	64QAM	25	0	20.00	19.95	20.01	
5	256QAM	1	0	17.97	18.02	17.96	19
5	256QAM	1	12	18.04	18.01	18.06	
5	256QAM	1	24	18.02	17.94	18.05	
5	256QAM	12	0	17.97	18.08	17.94	19
5	256QAM	12	7	18.05	17.94	18.01	
5	256QAM	12	13	18.02	17.98	18.10	
5	256QAM	25	0	17.94	17.95	17.98	



<LTE Band 38_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	13.13	13.26	13.34	
20	QPSK	1	49	13.00	12.83	12.83	14
20	QPSK	1	99	12.88	12.89	12.88	
20	QPSK	50	0	12.85	12.90	12.91	
20	QPSK	50	24	12.89	12.81	12.94	14
20	QPSK	50	50	12.81	12.89	12.91	
20	QPSK	100	0	12.91	12.83	12.89	
20	16QAM	1	0	12.99	12.80	12.97	14
20	16QAM	1	49	12.91	12.81	12.87	
20	16QAM	1	99	12.87	12.96	12.86	
20	16QAM	50	0	12.86	12.81	12.96	14
20	16QAM	50	24	12.86	12.93	12.95	
20	16QAM	50	50	12.87	12.88	12.95	
20	16QAM	100	0	12.95	12.82	12.84	14
20	64QAM	1	0	12.90	12.88	12.81	
20	64QAM	1	49	12.88	12.99	12.86	
20	64QAM	1	99	12.97	12.94	12.99	14
20	64QAM	50	0	13.00	12.95	12.95	
20	64QAM	50	24	12.81	12.84	12.98	
20	64QAM	50	50	12.84	12.99	12.98	14
20	64QAM	100	0	12.84	12.99	12.83	
20	256QAM	1	0	12.96	12.87	12.96	
20	256QAM	1	49	12.92	12.84	12.91	14
20	256QAM	1	99	12.84	12.88	12.98	
20	256QAM	50	0	12.84	12.92	12.83	
20	256QAM	50	24	12.91	12.97	12.81	14
20	256QAM	50	50	12.84	12.99	12.89	
20	256QAM	100	0	12.87	12.93	12.86	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	12.97	13.10	13.18	
15	QPSK	1	37	12.85	12.97	12.85	14
15	QPSK	1	74	12.95	12.99	12.97	
15	QPSK	36	0	12.81	12.93	12.92	14
15	QPSK	36	20	12.80	12.87	12.94	
15	QPSK	36	39	12.98	12.90	12.80	
15	QPSK	75	0	12.99	12.90	12.96	14
15	16QAM	1	0	12.92	12.96	12.90	
15	16QAM	1	37	12.94	12.88	12.83	
15	16QAM	1	74	12.97	12.93	12.87	14
15	16QAM	36	0	12.85	12.96	12.94	
15	16QAM	36	20	12.95	13.00	12.95	
15	16QAM	36	39	12.97	13.00	12.80	14
15	16QAM	75	0	13.00	12.92	12.83	
15	64QAM	1	0	12.91	12.96	12.99	
15	64QAM	1	37	12.89	12.97	12.85	14
15	64QAM	1	74	12.92	12.97	12.80	
15	64QAM	36	0	12.87	12.81	12.97	
15	64QAM	36	20	12.90	13.00	12.96	14
15	64QAM	36	39	12.97	12.92	12.86	
15	64QAM	75	0	12.98	12.93	12.98	
15	256QAM	1	0	12.81	12.87	12.91	14
15	256QAM	1	37	12.94	12.94	12.89	
15	256QAM	1	74	12.82	12.96	12.84	
15	256QAM	36	0	12.91	12.97	12.89	14
15	256QAM	36	20	12.94	12.89	12.81	
15	256QAM	36	39	12.98	13.00	12.86	
15	256QAM	75	0	12.92	12.89	12.92	



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Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	13.04	13.25	13.13	14
10	QPSK	1	25	12.97	12.92	12.83	
10	QPSK	1	49	12.96	12.94	12.83	
10	QPSK	25	0	12.96	12.94	12.89	14
10	QPSK	25	12	12.99	12.92	12.80	
10	QPSK	25	25	12.84	12.98	12.97	
10	QPSK	50	0	12.88	12.94	12.86	14
10	16QAM	1	0	12.83	12.87	12.86	
10	16QAM	1	25	12.87	12.90	12.86	
10	16QAM	1	49	12.92	12.90	12.89	14
10	16QAM	25	0	12.95	12.80	12.93	
10	16QAM	25	12	12.97	12.87	12.87	
10	16QAM	25	25	13.00	12.83	12.93	14
10	16QAM	50	0	12.80	12.88	12.82	
10	64QAM	1	0	12.95	12.85	12.86	
10	64QAM	1	25	12.98	12.94	12.92	14
10	64QAM	1	49	12.94	12.84	12.91	
10	64QAM	25	0	12.87	12.99	12.94	
10	64QAM	25	12	12.86	12.83	12.85	14
10	64QAM	25	25	12.89	12.88	12.94	
10	64QAM	50	0	12.86	12.94	12.86	
10	256QAM	1	0	12.93	12.83	12.84	14
10	256QAM	1	25	13.00	12.96	13.00	
10	256QAM	1	49	12.82	12.84	12.90	
10	256QAM	25	0	12.91	12.87	13.00	14
10	256QAM	25	12	12.94	12.91	12.80	
10	256QAM	25	25	12.94	12.99	12.97	
10	256QAM	50	0	13.00	12.80	12.96	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	13.02	13.10	13.15	14
5	QPSK	1	12	12.96	12.93	12.82	
5	QPSK	1	24	12.82	12.83	12.95	
5	QPSK	12	0	12.81	12.95	12.96	14
5	QPSK	12	7	12.92	12.98	12.81	
5	QPSK	12	13	12.86	12.84	12.94	
5	QPSK	25	0	12.80	12.83	13.00	14
5	16QAM	1	0	12.90	12.86	12.82	
5	16QAM	1	12	12.82	12.92	12.83	
5	16QAM	1	24	12.80	12.96	13.00	14
5	16QAM	12	0	12.80	12.93	12.81	
5	16QAM	12	7	13.00	12.90	12.95	
5	16QAM	12	13	12.95	12.98	12.84	14
5	16QAM	25	0	12.94	12.91	12.94	
5	64QAM	1	0	12.82	12.83	12.91	
5	64QAM	1	12	12.84	12.91	12.93	14
5	64QAM	1	24	12.89	12.91	12.90	
5	64QAM	12	0	12.94	12.81	12.97	
5	64QAM	12	7	12.80	12.92	12.82	14
5	64QAM	12	13	12.99	12.93	12.85	
5	64QAM	25	0	12.80	12.98	12.83	
5	256QAM	1	0	12.86	12.88	12.85	14
5	256QAM	1	12	12.99	12.89	12.99	
5	256QAM	1	24	12.80	12.91	12.84	
5	256QAM	12	0	12.85	12.90	12.80	14
5	256QAM	12	7	12.95	12.81	12.82	
5	256QAM	12	13	12.81	12.83	12.90	
5	256QAM	25	0	12.86	13.00	12.98	



<LTE Band 38_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.95	20.99	20.98	
20	QPSK	1	49	20.86	20.93	20.90	21.5
20	QPSK	1	99	20.95	20.93	20.89	
20	QPSK	50	0	20.95	20.88	20.94	
20	QPSK	50	24	20.91	20.89	20.93	21.5
20	QPSK	50	50	20.85	20.94	20.95	
20	QPSK	100	0	20.93	20.88	20.95	
20	16QAM	1	0	20.92	20.87	20.86	21.5
20	16QAM	1	49	20.88	20.92	20.87	
20	16QAM	1	99	20.93	20.90	20.91	
20	16QAM	50	0	20.89	20.86	20.86	21.5
20	16QAM	50	24	20.90	20.89	20.87	
20	16QAM	50	50	20.93	20.89	20.95	
20	16QAM	100	0	20.87	20.93	20.90	21.5
20	64QAM	1	0	20.91	20.94	20.89	
20	64QAM	1	49	20.90	20.90	20.87	
20	64QAM	1	99	20.91	20.95	20.92	21
20	64QAM	50	0	20.92	20.89	20.90	
20	64QAM	50	24	20.87	20.93	20.95	
20	64QAM	50	50	20.95	20.90	20.92	21
20	64QAM	100	0	20.86	20.91	20.85	
20	256QAM	1	0	18.34	18.26	18.29	19
20	256QAM	1	49	18.26	18.31	18.28	
20	256QAM	1	99	18.32	18.27	18.34	
20	256QAM	50	0	18.31	18.33	18.28	19
20	256QAM	50	24	18.27	18.36	18.29	
20	256QAM	50	50	18.28	18.27	18.36	
20	256QAM	100	0	18.29	18.35	18.34	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.97	20.97	20.89	21.5
15	QPSK	1	37	20.88	20.89	20.85	
15	QPSK	1	74	20.91	20.91	20.87	
15	QPSK	36	0	20.89	20.87	20.91	21.5
15	QPSK	36	20	20.95	20.91	20.86	
15	QPSK	36	39	20.86	20.93	20.94	
15	QPSK	75	0	20.92	20.94	20.86	21.5
15	16QAM	1	0	20.95	20.89	20.86	
15	16QAM	1	37	20.86	20.88	20.85	
15	16QAM	1	74	20.90	20.86	20.90	21.5
15	16QAM	36	0	20.93	20.94	20.94	
15	16QAM	36	20	20.94	20.92	20.88	
15	16QAM	36	39	20.88	20.91	20.93	21.5
15	16QAM	75	0	20.89	20.87	20.91	
15	64QAM	1	0	20.87	20.86	20.85	
15	64QAM	1	37	20.92	20.91	20.91	21
15	64QAM	1	74	20.86	20.86	20.88	
15	64QAM	36	0	20.93	20.85	20.90	
15	64QAM	36	20	20.95	20.86	20.94	19
15	64QAM	36	39	20.91	20.86	20.91	
15	64QAM	75	0	20.87	20.94	20.94	
15	256QAM	1	0	18.31	18.26	18.36	19
15	256QAM	1	37	18.36	18.31	18.29	
15	256QAM	1	74	18.35	18.36	18.33	
15	256QAM	36	0	18.30	18.26	18.27	19
15	256QAM	36	20	18.32	18.26	18.26	
15	256QAM	36	39	18.34	18.32	18.31	
15	256QAM	75	0	18.30	18.29	18.34	



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Report No. : FA3N0842

Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.91	20.96	20.97	21.5
10	QPSK	1	25	20.91	20.88	20.90	
10	QPSK	1	49	20.85	20.95	20.92	
10	QPSK	25	0	20.90	20.90	20.88	21.5
10	QPSK	25	12	20.89	20.88	20.91	
10	QPSK	25	25	20.87	20.89	20.94	
10	QPSK	50	0	20.87	20.95	20.87	21.5
10	16QAM	1	0	20.85	20.85	20.93	
10	16QAM	1	25	20.91	20.93	20.93	
10	16QAM	1	49	20.94	20.95	20.92	21.5
10	16QAM	25	0	20.92	20.95	20.89	
10	16QAM	25	12	20.89	20.85	20.93	
10	16QAM	25	25	20.95	20.90	20.86	21.5
10	16QAM	50	0	20.86	20.89	20.88	
10	64QAM	1	0	20.95	20.90	20.86	
10	64QAM	1	25	20.88	20.92	20.86	21.5
10	64QAM	1	49	20.90	20.94	20.87	
10	64QAM	25	0	20.93	20.94	20.88	
10	64QAM	25	12	20.94	20.94	20.91	21
10	64QAM	25	25	20.86	20.95	20.88	
10	64QAM	50	0	20.94	20.95	20.88	
10	256QAM	1	0	18.26	18.30	18.27	19
10	256QAM	1	25	18.31	18.33	18.32	
10	256QAM	1	49	18.29	18.36	18.26	
10	256QAM	25	0	18.35	18.26	18.28	19
10	256QAM	25	12	18.29	18.29	18.31	
10	256QAM	25	25	18.31	18.31	18.26	
10	256QAM	50	0	18.26	18.32	18.34	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.93	20.91	20.98	21.5
5	QPSK	1	12	20.89	20.89	20.90	
5	QPSK	1	24	20.87	20.92	20.94	
5	QPSK	12	0	20.85	20.92	20.86	21.5
5	QPSK	12	7	20.87	20.87	20.85	
5	QPSK	12	13	20.87	20.88	20.88	
5	QPSK	25	0	20.91	20.90	20.85	21.5
5	16QAM	1	0	20.91	20.91	20.89	
5	16QAM	1	12	20.91	20.95	20.90	
5	16QAM	1	24	20.93	20.93	20.87	21.5
5	16QAM	12	0	20.90	20.91	20.86	
5	16QAM	12	7	20.85	20.86	20.91	
5	16QAM	12	13	20.85	20.92	20.94	21.5
5	16QAM	25	0	20.89	20.92	20.93	
5	64QAM	1	0	20.88	20.94	20.95	
5	64QAM	1	12	20.92	20.86	20.95	21.5
5	64QAM	1	24	20.87	20.85	20.86	
5	64QAM	12	0	20.95	20.91	20.89	
5	64QAM	12	7	20.95	20.92	20.95	21
5	64QAM	12	13	20.91	20.87	20.85	
5	64QAM	25	0	20.90	20.95	20.91	
5	256QAM	1	0	18.33	18.29	18.34	19
5	256QAM	1	12	18.30	18.31	18.26	
5	256QAM	1	24	18.35	18.28	18.28	
5	256QAM	12	0	18.32	18.26	18.36	19
5	256QAM	12	7	18.30	18.35	18.34	
5	256QAM	12	13	18.29	18.26	18.29	
5	256QAM	25	0	18.27	18.33	18.31	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC3_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.98	23.11	23.13	23.10	23.03	
20	QPSK	1	49	22.70	22.83	22.99	22.76	22.73	24
20	QPSK	1	99	22.69	22.75	23.12	22.92	22.74	
20	QPSK	50	0	21.80	21.93	22.06	21.91	21.95	
20	QPSK	50	24	21.76	21.91	22.05	21.90	21.84	23
20	QPSK	50	50	21.65	21.86	21.92	21.82	21.91	
20	QPSK	100	0	21.82	21.79	22.09	21.65	21.80	
20	16QAM	1	0	21.77	21.86	21.83	21.99	21.71	23
20	16QAM	1	49	21.36	22.04	21.77	21.87	21.81	
20	16QAM	1	99	21.09	21.89	21.96	21.51	21.68	
20	16QAM	50	0	20.54	20.82	20.88	20.72	20.82	22
20	16QAM	50	24	20.70	21.00	21.02	20.92	20.82	
20	16QAM	50	50	20.54	20.91	20.98	20.78	20.84	
20	16QAM	100	0	20.72	20.87	21.00	20.88	20.83	22
20	64QAM	1	0	21.01	20.57	20.71	20.55	20.65	
20	64QAM	1	49	21.00	20.87	20.72	21.04	20.76	
20	64QAM	1	99	20.90	20.52	20.91	20.74	20.49	21
20	64QAM	50	0	19.74	19.88	19.91	19.91	19.86	
20	64QAM	50	24	19.67	19.87	20.03	19.76	19.83	
20	64QAM	50	50	19.78	20.01	19.99	19.89	19.80	19
20	64QAM	100	0	19.80	19.92	19.92	19.73	19.72	
20	256QAM	1	0	18.03	17.82	17.93	17.84	17.86	
20	256QAM	1	49	17.75	17.91	17.93	17.75	17.92	19
20	256QAM	1	99	17.86	17.76	17.88	17.82	17.78	
20	256QAM	50	0	17.87	18.01	17.96	17.96	17.93	
20	256QAM	50	24	17.83	17.94	17.94	17.83	17.95	19
20	256QAM	50	50	17.97	17.82	18.00	17.78	17.95	
20	256QAM	100	0	17.90	17.95	17.99	17.86	17.99	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.52	22.76	23.11	22.76	22.71	
15	QPSK	1	37	22.58	22.83	22.83	22.81	22.84	24.00
15	QPSK	1	74	22.67	22.77	23.10	23.05	22.79	
15	QPSK	36	0	21.69	21.96	22.06	21.76	21.89	23
15	QPSK	36	20	21.71	21.99	22.00	21.74	21.83	
15	QPSK	36	39	21.73	21.90	21.86	21.85	22.02	
15	QPSK	75	0	21.75	21.96	21.95	21.72	21.85	23
15	16QAM	1	0	21.85	21.82	21.90	21.98	21.81	
15	16QAM	1	37	21.34	21.87	21.74	21.82	21.90	
15	16QAM	1	74	21.08	21.91	21.90	21.56	21.73	22
15	16QAM	36	0	20.58	20.81	20.97	20.81	20.69	
15	16QAM	36	20	20.88	21.03	20.86	20.90	20.86	
15	16QAM	36	39	20.59	20.86	21.06	20.87	20.97	22
15	16QAM	75	0	20.82	20.89	21.01	20.76	20.73	
15	64QAM	1	0	20.93	20.70	20.77	20.52	20.57	
15	64QAM	1	37	21.04	20.95	20.71	20.99	20.82	21
15	64QAM	1	74	20.80	20.53	21.03	20.83	20.56	
15	64QAM	36	0	19.65	19.83	19.90	19.95	19.91	
15	64QAM	36	20	19.74	19.79	20.10	19.74	19.87	19
15	64QAM	36	39	19.75	19.95	20.10	19.88	19.94	
15	64QAM	75	0	19.75	19.88	20.01	19.74	19.76	
15	256QAM	1	0	17.96	17.75	18.05	17.87	17.93	19
15	256QAM	1	37	17.94	18.03	17.85	17.91	17.88	
15	256QAM	1	74	17.82	17.74	17.84	17.88	17.85	
15	256QAM	36	0	18.02	17.90	17.77	17.84	17.98	19
15	256QAM	36	20	17.91	17.87	17.98	17.96	17.84	
15	256QAM	36	39	17.89	17.96	17.87	17.89	17.94	
15	256QAM	75	0	17.94	17.98	17.96	17.93	18.05	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	22.57	22.80	23.02	22.76	22.61	24.00
10	QPSK	1	25	22.74	22.94	22.88	22.90	22.87	
10	QPSK	1	49	22.69	22.72	23.05	23.00	22.67	
10	QPSK	25	0	21.66	21.86	22.01	21.76	21.88	23
10	QPSK	25	12	21.78	21.84	22.02	21.79	21.73	
10	QPSK	25	25	21.85	21.85	21.98	21.88	21.99	
10	QPSK	50	0	21.75	21.91	22.10	21.72	21.96	23
10	16QAM	1	0	21.79	21.81	21.71	21.99	21.83	
10	16QAM	1	25	21.35	21.92	21.69	21.89	21.93	
10	16QAM	1	49	21.23	21.82	21.96	21.47	21.72	22
10	16QAM	25	0	20.58	20.88	20.93	20.78	20.66	
10	16QAM	25	12	20.79	20.91	21.05	20.79	20.78	
10	16QAM	25	25	20.59	20.84	20.94	20.68	20.89	22
10	16QAM	50	0	20.68	20.98	21.04	20.75	20.85	
10	64QAM	1	0	20.98	20.73	20.71	20.46	20.52	
10	64QAM	1	25	20.98	21.01	20.71	20.97	20.81	22
10	64QAM	1	49	20.95	20.64	20.95	20.75	20.56	
10	64QAM	25	0	19.68	19.83	19.84	19.85	19.89	
10	64QAM	25	12	19.78	19.85	19.91	19.75	19.91	21
10	64QAM	25	25	19.79	19.97	20.08	19.76	19.89	
10	64QAM	50	0	19.73	19.92	19.89	19.69	19.74	
10	256QAM	1	0	17.85	17.90	18.05	17.85	17.89	19
10	256QAM	1	25	17.81	17.83	18.00	17.90	17.97	
10	256QAM	1	49	17.73	17.84	17.88	17.88	17.76	
10	256QAM	25	0	17.86	17.92	17.81	17.80	17.99	19
10	256QAM	25	12	17.97	18.01	17.87	17.87	18.02	
10	256QAM	25	25	18.00	17.96	18.01	17.79	18.01	
10	256QAM	50	0	17.89	17.88	17.88	17.97	17.93	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	22.48	22.81	23.11	22.94	22.57	24.00
5	QPSK	1	12	22.74	22.76	22.99	22.84	22.78	
5	QPSK	1	24	22.62	22.77	23.05	23.03	22.87	
5	QPSK	12	0	21.65	21.94	22.07	21.72	21.86	23
5	QPSK	12	7	21.78	21.82	21.98	21.93	21.71	
5	QPSK	12	13	21.72	21.80	21.93	21.72	21.96	
5	QPSK	25	0	21.76	21.84	21.99	21.81	21.90	23
5	16QAM	1	0	21.83	21.97	21.79	21.93	21.80	
5	16QAM	1	12	21.47	22.06	21.72	21.90	21.82	
5	16QAM	1	24	21.12	21.81	21.91	21.67	21.66	22
5	16QAM	12	0	20.71	20.82	20.93	20.77	20.78	
5	16QAM	12	7	20.84	20.89	20.88	20.82	20.70	
5	16QAM	12	13	20.65	20.91	21.03	20.81	20.81	22
5	16QAM	25	0	20.81	20.87	21.07	20.82	20.85	
5	64QAM	1	0	20.84	20.72	20.79	20.47	20.61	
5	64QAM	1	12	20.97	20.98	20.77	20.92	20.67	22
5	64QAM	1	24	20.94	20.55	20.91	20.75	20.57	
5	64QAM	12	0	19.66	19.90	19.87	19.96	19.74	
5	64QAM	12	7	19.81	19.90	20.00	19.79	19.76	21
5	64QAM	12	13	19.76	20.02	20.13	19.70	19.89	
5	64QAM	25	0	19.77	19.97	20.00	19.82	19.92	
5	256QAM	1	0	17.99	17.76	17.98	17.96	17.87	19
5	256QAM	1	12	17.77	17.97	17.88	17.87	17.94	
5	256QAM	1	24	17.86	17.83	17.71	17.85	17.80	
5	256QAM	12	0	18.03	17.97	17.89	17.81	17.97	19
5	256QAM	12	7	17.82	18.07	17.87	17.87	17.83	
5	256QAM	12	13	17.83	17.96	17.89	17.94	18.04	
5	256QAM	25	0	17.90	17.98	18.02	17.97	17.94	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC3_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	24
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.22	23.23	23.27	23.26	22.90	24
20	QPSK	1	49	22.91	23.04	23.00	22.97	22.96	
20	QPSK	1	99	22.96	23.05	22.94	23.03	22.93	
20	QPSK	50	0	22.37	22.44	22.48	22.35	22.41	23
20	QPSK	50	24	22.34	22.40	22.29	22.34	22.37	
20	QPSK	50	50	22.35	22.40	22.29	22.34	22.25	
20	QPSK	100	0	21.97	22.08	22.20	22.03	22.15	23
20	16QAM	1	0	22.12	22.28	22.27	22.14	22.16	
20	16QAM	1	49	22.11	22.21	22.18	22.21	22.14	
20	16QAM	1	99	22.12	22.37	22.22	22.27	22.17	22
20	16QAM	50	0	21.38	21.44	21.40	21.38	21.24	
20	16QAM	50	24	21.41	21.45	21.29	21.48	21.53	
20	16QAM	50	50	21.20	21.26	21.28	21.33	21.28	22
20	16QAM	100	0	21.68	21.82	21.74	21.78	21.77	
20	64QAM	1	0	21.57	21.59	21.64	21.66	21.63	
20	64QAM	1	49	21.65	21.80	21.68	21.55	21.71	21
20	64QAM	1	99	21.56	21.75	21.64	21.61	21.71	
20	64QAM	50	0	20.32	20.37	20.22	20.26	20.26	
20	64QAM	50	24	20.28	20.33	20.38	20.33	20.34	19
20	64QAM	50	50	20.28	20.46	20.33	20.40	20.31	
20	64QAM	100	0	20.31	20.43	20.25	20.34	20.35	
20	256QAM	1	0	17.91	18.01	18.01	17.92	17.94	19
20	256QAM	1	49	17.83	17.99	18.00	17.95	17.94	
20	256QAM	1	99	18.06	18.31	18.23	18.22	18.10	
20	256QAM	50	0	18.31	18.49	18.46	18.41	18.42	19
20	256QAM	50	24	18.16	18.34	18.25	18.19	18.34	
20	256QAM	50	50	18.28	18.40	18.31	18.37	18.30	
20	256QAM	100	0	18.16	18.19	18.12	18.16	18.00	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	24
15	QPSK	1	0	23.15	23.14	23.24	23.19	22.90	
15	QPSK	1	37	22.91	23.08	22.97	23.07	22.93	23
15	QPSK	1	74	22.98	23.10	22.95	23.07	22.89	
15	QPSK	36	0	22.32	22.31	22.26	22.24	22.47	
15	QPSK	36	20	22.41	22.42	22.29	22.27	22.32	23
15	QPSK	36	39	22.31	22.41	22.32	22.34	22.25	
15	QPSK	75	0	21.97	22.02	22.04	22.07	22.13	
15	16QAM	1	0	22.09	22.28	22.23	22.11	22.07	23
15	16QAM	1	37	22.09	22.21	22.10	22.17	22.18	
15	16QAM	1	74	22.19	22.29	22.22	22.21	22.23	
15	16QAM	36	0	21.39	21.44	21.46	21.47	21.24	22
15	16QAM	36	20	21.36	21.44	21.30	21.45	21.48	
15	16QAM	36	39	21.21	21.31	21.23	21.29	21.26	
15	16QAM	75	0	21.74	21.82	21.69	21.76	21.69	22
15	64QAM	1	0	21.58	21.63	21.58	21.61	21.64	
15	64QAM	1	37	21.60	21.77	21.63	21.54	21.63	
15	64QAM	1	74	21.65	21.80	21.68	21.60	21.65	21
15	64QAM	36	0	20.36	20.38	20.24	20.25	20.33	
15	64QAM	36	20	20.24	20.37	20.33	20.27	20.30	
15	64QAM	36	39	20.26	20.45	20.40	20.35	20.31	19
15	64QAM	75	0	20.33	20.47	20.28	20.42	20.38	
15	256QAM	1	0	17.86	18.04	18.07	17.85	17.84	
15	256QAM	1	37	17.85	17.97	17.98	17.90	17.91	19
15	256QAM	1	74	18.07	18.31	18.22	18.14	18.08	
15	256QAM	36	0	18.31	18.52	18.43	18.41	18.44	
15	256QAM	36	20	18.20	18.30	18.27	18.15	18.31	19
15	256QAM	36	39	18.32	18.42	18.27	18.40	18.30	
15	256QAM	75	0	18.13	18.12	18.09	18.13	18.08	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	23.17	23.22	23.23	23.26	22.87	24
10	QPSK	1	25	22.99	23.11	23.00	23.06	22.98	
10	QPSK	1	49	22.95	23.04	22.92	23.04	22.94	
10	QPSK	25	0	22.33	22.33	22.16	22.32	22.43	23
10	QPSK	25	12	22.36	22.33	22.25	22.29	22.33	
10	QPSK	25	25	22.26	22.42	22.32	22.33	22.32	
10	QPSK	50	0	21.98	22.10	22.01	22.06	22.16	23
10	16QAM	1	0	22.06	22.20	22.26	22.13	22.08	
10	16QAM	1	25	22.09	22.24	22.16	22.20	22.18	
10	16QAM	1	49	22.12	22.31	22.20	22.25	22.25	22
10	16QAM	25	0	21.42	21.40	21.46	21.47	21.27	
10	16QAM	25	12	21.43	21.46	21.35	21.48	21.50	
10	16QAM	25	25	21.20	21.26	21.18	21.36	21.29	22
10	16QAM	50	0	21.72	21.85	21.73	21.81	21.69	
10	64QAM	1	0	21.57	21.65	21.59	21.62	21.69	
10	64QAM	1	25	21.60	21.78	21.58	21.60	21.64	22
10	64QAM	1	49	21.63	21.80	21.58	21.63	21.69	
10	64QAM	25	0	20.38	20.40	20.28	20.22	20.25	
10	64QAM	25	12	20.24	20.33	20.31	20.33	20.30	21
10	64QAM	25	25	20.32	20.41	20.41	20.36	20.39	
10	64QAM	50	0	20.27	20.37	20.21	20.40	20.33	
10	256QAM	1	0	17.89	17.96	18.03	17.92	17.84	19
10	256QAM	1	25	17.87	17.99	18.03	17.90	17.95	
10	256QAM	1	49	18.14	18.28	18.18	18.19	18.09	
10	256QAM	25	0	18.30	18.42	18.36	18.38	18.39	19
10	256QAM	25	12	18.22	18.31	18.30	18.19	18.29	
10	256QAM	25	25	18.25	18.49	18.36	18.38	18.31	
10	256QAM	50	0	18.13	18.12	18.14	18.18	18.00	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	23.14	23.16	23.22	23.22	22.84	24
5	QPSK	1	12	22.95	23.09	22.99	23.03	22.98	
5	QPSK	1	24	23.00	23.10	23.02	23.06	22.88	
5	QPSK	12	0	22.32	22.36	22.23	22.26	22.47	23
5	QPSK	12	7	22.41	22.37	22.26	22.36	22.39	
5	QPSK	12	13	22.27	22.39	22.31	22.33	22.32	
5	QPSK	25	0	22.04	22.04	22.03	22.07	22.08	23
5	16QAM	1	0	22.13	22.22	22.18	22.11	22.16	
5	16QAM	1	12	22.14	22.25	22.18	22.12	22.16	
5	16QAM	1	24	22.14	22.31	22.20	22.22	22.16	22
5	16QAM	12	0	21.37	21.44	21.42	21.40	21.25	
5	16QAM	12	7	21.43	21.47	21.36	21.47	21.54	
5	16QAM	12	13	21.15	21.31	21.19	21.26	21.21	22
5	16QAM	25	0	21.77	21.78	21.73	21.77	21.73	
5	64QAM	1	0	21.59	21.65	21.65	21.66	21.67	
5	64QAM	1	12	21.57	21.75	21.58	21.58	21.68	22
5	64QAM	1	24	21.59	21.80	21.59	21.56	21.66	
5	64QAM	12	0	20.34	20.44	20.28	20.23	20.34	
5	64QAM	12	7	20.26	20.37	20.36	20.33	20.24	21
5	64QAM	12	13	20.31	20.46	20.38	20.33	20.34	
5	64QAM	25	0	20.30	20.47	20.22	20.39	20.38	
5	256QAM	1	0	17.93	18.01	18.00	17.92	17.91	19
5	256QAM	1	12	17.89	17.98	17.97	17.87	17.92	
5	256QAM	1	24	18.14	18.29	18.19	18.14	18.13	
5	256QAM	12	0	18.27	18.47	18.42	18.36	18.42	19
5	256QAM	12	7	18.16	18.38	18.33	18.22	18.30	
5	256QAM	12	13	18.25	18.45	18.26	18.43	18.33	
5	256QAM	25	0	18.08	18.16	18.07	18.18	18.02	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC3_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	12.95	13.00	13.12	13.11	12.69	14
20	QPSK	1	49	12.90	12.91	12.89	12.95	12.52	
20	QPSK	1	99	12.91	12.91	12.91	12.91	12.41	
20	QPSK	50	0	12.88	12.91	12.98	12.90	12.52	14
20	QPSK	50	24	12.81	12.90	12.97	12.86	12.46	
20	QPSK	50	50	12.80	12.87	12.91	12.87	12.50	
20	QPSK	100	0	12.87	12.96	12.97	12.80	12.52	14
20	16QAM	1	0	13.01	12.92	12.87	12.88	12.44	
20	16QAM	1	49	13.04	12.97	12.83	12.82	12.44	
20	16QAM	1	99	13.05	12.94	12.85	12.83	12.59	14
20	16QAM	50	0	12.89	12.91	12.92	12.99	12.44	
20	16QAM	50	24	12.93	12.91	12.98	12.86	12.52	
20	16QAM	50	50	13.02	13.10	12.85	12.96	12.43	14
20	16QAM	100	0	12.89	12.95	12.88	12.95	12.57	
20	64QAM	1	0	13.00	13.02	12.89	12.84	12.58	
20	64QAM	1	49	13.00	13.10	13.00	12.84	12.55	14
20	64QAM	1	99	12.96	12.90	12.90	12.98	12.39	
20	64QAM	50	0	12.92	13.02	12.95	13.01	12.46	
20	64QAM	50	24	12.90	13.07	12.89	13.01	12.52	14
20	64QAM	50	50	13.03	12.94	12.88	12.96	12.43	
20	64QAM	100	0	12.88	12.94	13.01	12.82	12.41	
20	256QAM	1	0	12.85	12.99	13.02	12.83	12.42	14
20	256QAM	1	49	13.04	13.06	12.86	12.87	12.43	
20	256QAM	1	99	13.03	13.09	12.93	12.83	12.42	
20	256QAM	50	0	13.02	12.91	13.02	12.90	12.55	14
20	256QAM	50	24	12.93	13.08	12.87	12.88	12.52	
20	256QAM	50	50	12.87	13.03	12.98	12.87	12.50	
20	256QAM	100	0	12.98	13.05	12.87	13.01	12.47	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	12.80	12.98	13.09	13.06	12.59	14
15	QPSK	1	37	12.80	12.99	12.99	12.97	12.59	
15	QPSK	1	74	12.78	12.92	13.11	13.03	12.56	
15	QPSK	36	0	12.77	12.96	12.99	13.00	12.57	14
15	QPSK	36	20	12.83	12.82	12.95	12.96	12.54	
15	QPSK	36	39	12.77	12.88	13.05	13.06	12.62	
15	QPSK	75	0	12.85	12.86	13.01	13.06	12.66	14
15	16QAM	1	0	12.78	12.83	12.93	12.92	12.49	
15	16QAM	1	37	12.85	12.96	12.95	12.95	12.60	
15	16QAM	1	74	12.86	12.91	13.00	13.11	12.68	14
15	16QAM	36	0	12.94	12.81	12.93	13.05	12.67	
15	16QAM	36	20	12.95	12.85	13.00	13.10	12.51	
15	16QAM	36	39	12.91	12.96	13.10	12.97	12.51	14
15	16QAM	75	0	12.75	12.81	13.00	13.08	12.69	
15	64QAM	1	0	12.87	12.94	13.11	12.95	12.66	
15	64QAM	1	37	12.84	12.82	13.03	12.98	12.52	14
15	64QAM	1	74	12.82	12.97	13.10	12.93	12.60	
15	64QAM	36	0	12.91	12.84	12.96	13.02	12.61	
15	64QAM	36	20	12.95	12.83	12.96	12.97	12.60	14
15	64QAM	36	39	12.85	12.85	13.08	12.91	12.61	
15	64QAM	75	0	12.78	12.93	13.08	13.01	12.62	
15	256QAM	1	0	12.94	12.90	12.97	12.98	12.57	14
15	256QAM	1	37	12.82	13.00	13.09	12.95	12.64	
15	256QAM	1	74	12.83	12.91	13.00	13.10	12.60	
15	256QAM	36	0	12.75	12.97	12.96	12.93	12.64	14
15	256QAM	36	20	12.84	12.82	12.93	13.11	12.54	
15	256QAM	36	39	12.92	12.96	12.92	12.92	12.59	
15	256QAM	75	0	12.91	12.88	13.02	13.05	12.65	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	12.84	12.81	13.03	12.94	12.53	14
10	QPSK	1	25	12.92	13.00	13.03	13.01	12.52	
10	QPSK	1	49	12.78	12.91	13.00	13.07	12.53	
10	QPSK	25	0	12.87	12.83	13.01	13.10	12.59	14
10	QPSK	25	12	12.88	12.81	12.95	12.91	12.56	
10	QPSK	25	25	12.82	12.87	12.94	13.05	12.62	
10	QPSK	50	0	12.93	12.85	13.09	13.02	12.56	14
10	16QAM	1	0	12.87	12.82	13.01	13.02	12.58	
10	16QAM	1	25	12.82	12.96	13.09	13.11	12.58	
10	16QAM	1	49	12.85	12.86	12.98	13.06	12.55	14
10	16QAM	25	0	12.76	12.84	12.92	13.08	12.68	
10	16QAM	25	12	12.83	12.88	12.94	12.99	12.66	
10	16QAM	25	25	12.93	12.89	13.10	13.10	12.63	14
10	16QAM	50	0	12.86	12.84	12.98	13.08	12.57	
10	64QAM	1	0	12.87	12.91	13.00	13.09	12.65	
10	64QAM	1	25	12.81	12.93	12.97	13.07	12.56	14
10	64QAM	1	49	12.89	12.85	13.10	13.03	12.68	
10	64QAM	25	0	12.81	12.88	12.93	13.01	12.57	
10	64QAM	25	12	12.86	13.00	13.05	12.95	12.58	14
10	64QAM	25	25	12.85	12.92	13.06	13.04	12.69	
10	64QAM	50	0	12.81	12.94	12.94	12.97	12.58	
10	256QAM	1	0	12.81	12.95	12.99	13.05	12.53	14
10	256QAM	1	25	12.77	12.98	13.07	12.97	12.58	
10	256QAM	1	49	12.84	12.97	13.09	13.10	12.56	
10	256QAM	25	0	12.83	12.91	13.03	12.98	12.64	14
10	256QAM	25	12	12.81	12.97	13.01	13.03	12.65	
10	256QAM	25	25	12.88	12.88	13.11	13.02	12.69	
10	256QAM	50	0	12.91	12.91	12.93	13.07	12.62	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	12.88	12.80	13.07	13.06	12.63	14
5	QPSK	1	12	12.97	12.96	13.00	12.93	12.41	
5	QPSK	1	24	12.85	12.93	12.90	12.98	12.42	
5	QPSK	12	0	13.01	13.04	12.98	13.00	12.45	14
5	QPSK	12	7	12.86	12.95	12.98	12.94	12.52	
5	QPSK	12	13	12.89	12.90	12.90	12.97	12.41	
5	QPSK	25	0	13.03	12.98	12.86	13.01	12.39	14
5	16QAM	1	0	13.03	13.05	13.00	12.91	12.51	
5	16QAM	1	12	12.98	12.99	12.85	12.93	12.58	
5	16QAM	1	24	12.94	13.06	12.96	12.95	12.55	14
5	16QAM	12	0	12.95	12.91	13.02	13.00	12.58	
5	16QAM	12	7	13.05	12.93	12.94	12.93	12.42	
5	16QAM	12	13	12.98	12.92	12.90	12.90	12.50	14
5	16QAM	25	0	13.04	13.08	12.89	12.98	12.55	
5	64QAM	1	0	12.96	13.01	12.83	12.99	12.52	
5	64QAM	1	12	12.85	13.00	12.97	12.83	12.43	14
5	64QAM	1	24	12.99	13.08	12.95	13.01	12.58	
5	64QAM	12	0	12.91	13.02	13.02	12.88	12.52	
5	64QAM	12	7	12.93	13.02	13.02	12.99	12.57	14
5	64QAM	12	13	13.05	13.02	12.92	12.88	12.40	
5	64QAM	25	0	12.90	13.06	12.97	13.00	12.40	
5	256QAM	1	0	13.05	12.99	12.90	12.95	12.55	14
5	256QAM	1	12	12.92	12.90	12.85	12.85	12.44	
5	256QAM	1	24	12.99	13.02	12.99	12.97	12.45	
5	256QAM	12	0	12.95	12.99	12.95	12.82	12.45	14
5	256QAM	12	7	12.92	13.00	12.83	12.93	12.46	
5	256QAM	12	13	12.93	12.97	12.90	12.88	12.45	
5	256QAM	25	0	12.97	13.09	13.02	12.81	12.50	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC3_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	21.5
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.93	20.84	20.96	20.93	20.85	21.5
20	QPSK	1	49	20.74	20.74	20.83	20.74	20.84	
20	QPSK	1	99	20.83	20.74	20.79	20.76	20.80	
20	QPSK	50	0	20.74	20.77	20.83	20.79	20.76	21.5
20	QPSK	50	24	20.72	20.71	20.76	20.76	20.72	
20	QPSK	50	50	20.65	20.70	20.75	20.75	20.70	
20	QPSK	100	0	20.72	20.77	20.81	20.71	20.73	21.5
20	16QAM	1	0	20.74	20.80	20.75	20.70	20.79	
20	16QAM	1	49	20.77	20.83	20.76	20.75	20.75	
20	16QAM	1	99	20.77	20.80	20.78	20.75	20.77	21.5
20	16QAM	50	0	20.80	20.82	20.80	20.74	20.80	
20	16QAM	50	24	20.81	20.77	20.84	20.79	20.82	
20	16QAM	50	50	20.74	20.77	20.81	20.82	20.83	21.5
20	16QAM	100	0	20.76	20.76	20.74	20.75	20.75	
20	64QAM	1	0	20.75	20.75	20.80	20.84	20.79	
20	64QAM	1	49	20.77	20.74	20.80	20.74	20.81	21
20	64QAM	1	99	20.83	20.81	20.84	20.80	20.74	
20	64QAM	50	0	20.75	20.79	20.82	20.81	20.80	
20	64QAM	50	24	20.84	20.78	20.83	20.77	20.84	19
20	64QAM	50	50	20.82	20.80	20.75	20.83	20.79	
20	64QAM	100	0	20.80	20.75	20.74	20.78	20.77	
20	256QAM	1	0	18.13	18.08	18.09	18.03	18.11	19
20	256QAM	1	49	18.12	18.13	18.04	18.04	18.08	
20	256QAM	1	99	18.12	18.08	18.09	18.03	18.10	
20	256QAM	50	0	18.08	18.10	18.03	18.09	18.10	19
20	256QAM	50	24	18.06	18.04	18.12	18.13	18.09	
20	256QAM	50	50	18.09	18.09	18.07	18.05	18.03	
20	256QAM	100	0	18.09	18.11	18.03	18.05	18.03	21.50
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	21.5
15	QPSK	1	0	20.85	20.79	20.95	20.89	20.55	
15	QPSK	1	37	20.66	20.66	20.82	20.67	20.76	21.5
15	QPSK	1	74	20.82	20.68	20.71	20.74	20.73	
15	QPSK	36	0	20.69	20.68	20.82	20.79	20.73	
15	QPSK	36	20	20.67	20.73	20.73	20.69	20.74	21.5
15	QPSK	36	39	20.68	20.80	20.66	20.70	20.79	
15	QPSK	75	0	20.62	20.68	20.64	20.67	20.66	
15	16QAM	1	0	20.65	20.80	20.67	20.62	20.74	21.5
15	16QAM	1	37	20.69	20.81	20.75	20.70	20.69	
15	16QAM	1	74	20.77	20.77	20.71	20.73	20.76	
15	16QAM	36	0	20.78	20.80	20.77	20.67	20.77	21.5
15	16QAM	36	20	20.80	20.68	20.75	20.75	20.81	
15	16QAM	36	39	20.64	20.69	20.74	20.81	20.73	
15	16QAM	75	0	20.75	20.70	20.70	20.74	20.75	21.5
15	64QAM	1	0	20.71	20.71	20.78	20.84	20.71	
15	64QAM	1	37	20.77	20.74	20.78	20.66	20.81	
15	64QAM	1	74	20.76	20.74	20.81	20.77	20.66	21
15	64QAM	36	0	20.65	20.69	20.82	20.79	20.78	
15	64QAM	36	20	20.82	20.77	20.75	20.72	20.83	
15	64QAM	36	39	20.78	20.76	20.70	20.73	20.76	19
15	64QAM	75	0	20.80	20.71	20.72	20.73	20.76	
15	256QAM	1	0	18.06	18.08	18.07	17.97	18.11	
15	256QAM	1	37	18.11	18.04	18.03	18.04	17.98	19
15	256QAM	1	74	18.02	18.00	18.04	17.95	18.09	
15	256QAM	36	0	18.00	18.08	18.03	18.00	18.02	
15	256QAM	36	20	18.03	17.99	18.06	18.06	18.01	19
15	256QAM	36	39	18.02	18.05	18.07	18.03	18.03	
15	256QAM	75	0	18.09	18.10	17.95	18.03	18.03	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	20.83	20.76	20.88	20.91	20.62	21.50
10	QPSK	1	25	20.66	20.66	20.81	20.68	20.79	
10	QPSK	1	49	20.80	20.73	20.76	20.72	20.78	
10	QPSK	25	0	20.74	20.72	20.75	20.70	20.66	21.5
10	QPSK	25	12	20.69	20.71	20.72	20.75	20.73	
10	QPSK	25	25	20.66	20.84	20.73	20.71	20.77	
10	QPSK	50	0	20.70	20.72	20.67	20.68	20.64	21.5
10	16QAM	1	0	20.68	20.80	20.73	20.65	20.71	
10	16QAM	1	25	20.76	20.75	20.67	20.67	20.69	
10	16QAM	1	49	20.67	20.74	20.72	20.69	20.76	21.5
10	16QAM	25	0	20.78	20.78	20.78	20.67	20.80	
10	16QAM	25	12	20.71	20.77	20.84	20.78	20.80	
10	16QAM	25	25	20.68	20.67	20.74	20.81	20.76	21.5
10	16QAM	50	0	20.70	20.74	20.67	20.74	20.70	
10	64QAM	1	0	20.68	20.66	20.79	20.78	20.73	
10	64QAM	1	25	20.72	20.66	20.76	20.65	20.77	21.5
10	64QAM	1	49	20.78	20.77	20.80	20.78	20.65	
10	64QAM	25	0	20.68	20.72	20.78	20.79	20.77	
10	64QAM	25	12	20.79	20.76	20.75	20.67	20.79	21
10	64QAM	25	25	20.81	20.77	20.65	20.78	20.75	
10	64QAM	50	0	20.73	20.74	20.73	20.71	20.72	
10	256QAM	1	0	18.05	18.05	18.01	18.01	18.10	19
10	256QAM	1	25	18.08	18.05	17.96	17.98	18.01	
10	256QAM	1	49	18.12	18.08	18.06	17.98	18.07	
10	256QAM	25	0	17.99	18.07	17.96	17.99	18.05	19
10	256QAM	25	12	17.99	17.96	18.11	18.07	18.06	
10	256QAM	25	25	18.02	18.01	17.99	18.01	18.01	
10	256QAM	50	0	18.05	18.10	18.01	17.96	18.02	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	20.90	20.83	20.86	20.84	20.58	21.50
5	QPSK	1	12	20.74	20.65	20.82	20.74	20.80	
5	QPSK	1	24	20.77	20.70	20.76	20.74	20.73	
5	QPSK	12	0	20.69	20.72	20.81	20.78	20.68	21.5
5	QPSK	12	7	20.72	20.70	20.73	20.73	20.76	
5	QPSK	12	13	20.70	20.83	20.66	20.75	20.69	
5	QPSK	25	0	20.72	20.70	20.67	20.65	20.67	21.5
5	16QAM	1	0	20.64	20.75	20.73	20.60	20.71	
5	16QAM	1	12	20.75	20.79	20.68	20.75	20.65	
5	16QAM	1	24	20.67	20.72	20.72	20.74	20.74	21.5
5	16QAM	12	0	20.72	20.79	20.79	20.71	20.70	
5	16QAM	12	7	20.74	20.73	20.84	20.70	20.76	
5	16QAM	12	13	20.70	20.67	20.72	20.81	20.78	21.5
5	16QAM	25	0	20.72	20.70	20.65	20.75	20.68	
5	64QAM	1	0	20.71	20.66	20.72	20.75	20.78	
5	64QAM	1	12	20.72	20.70	20.78	20.69	20.80	21.5
5	64QAM	1	24	20.78	20.79	20.79	20.79	20.74	
5	64QAM	12	0	20.73	20.72	20.76	20.73	20.77	
5	64QAM	12	7	20.74	20.68	20.79	20.72	20.74	21
5	64QAM	12	13	20.78	20.80	20.70	20.79	20.75	
5	64QAM	25	0	20.73	20.66	20.68	20.76	20.71	
5	256QAM	1	0	18.07	18.04	17.99	17.97	18.07	19
5	256QAM	1	12	18.08	18.09	18.03	17.99	18.00	
5	256QAM	1	24	18.10	17.98	17.99	17.98	18.03	
5	256QAM	12	0	17.99	18.07	17.98	18.08	18.00	19
5	256QAM	12	7	18.02	18.02	18.07	18.07	18.07	
5	256QAM	12	13	18.03	18.08	18.03	17.99	17.96	
5	256QAM	25	0	17.99	18.02	17.98	18.03	17.97	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC2_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	27
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.68	25.80	25.89	25.76	25.68	27
20	QPSK	1	49	25.64	25.71	25.83	25.70	25.67	
20	QPSK	1	99	25.56	25.78	25.85	25.73	25.62	
20	QPSK	50	0	24.20	24.55	24.57	24.42	24.37	26
20	QPSK	50	24	24.19	24.50	24.43	24.39	24.29	
20	QPSK	50	50	24.19	24.35	24.41	24.25	24.28	
20	QPSK	100	0	24.23	24.45	24.54	24.20	24.41	26
20	16QAM	1	0	25.03	25.10	25.45	25.43	25.25	
20	16QAM	1	49	25.11	25.05	25.20	25.18	25.31	
20	16QAM	1	99	24.81	25.22	25.41	24.97	25.36	25
20	16QAM	50	0	23.28	23.36	23.52	23.25	23.24	
20	16QAM	50	24	23.27	23.48	23.43	23.31	23.25	
20	16QAM	50	50	23.28	23.32	23.55	23.24	23.23	25
20	16QAM	100	0	23.19	23.40	23.61	23.41	23.29	
20	64QAM	1	0	24.00	24.01	24.31	24.16	24.15	
20	64QAM	1	49	23.92	24.29	24.13	23.98	23.84	24
20	64QAM	1	99	23.82	24.12	23.74	24.16	23.68	
20	64QAM	50	0	22.79	22.99	22.95	22.85	22.87	
20	64QAM	50	24	22.80	23.15	23.22	22.88	22.86	22
20	64QAM	50	50	22.75	23.11	23.04	22.97	22.80	
20	64QAM	100	0	22.78	22.98	23.09	22.89	22.98	
20	256QAM	1	0	20.98	20.94	21.17	20.99	20.88	22
20	256QAM	1	49	21.02	21.05	21.22	20.95	20.93	
20	256QAM	1	99	21.08	21.04	21.09	20.97	21.06	
20	256QAM	50	0	20.90	20.92	20.92	20.85	20.89	22
20	256QAM	50	24	20.82	20.85	21.06	20.90	20.77	
20	256QAM	50	50	20.79	20.98	21.02	20.86	20.90	
20	256QAM	100	0	20.89	20.84	21.06	20.94	20.90	27.00
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	27.00
15	QPSK	1	0	25.54	25.68	25.86	25.72	25.55	
15	QPSK	1	37	25.41	25.63	25.76	25.65	25.52	26
15	QPSK	1	74	25.40	25.65	25.78	25.47	25.43	
15	QPSK	36	0	24.19	24.14	24.36	24.28	24.15	
15	QPSK	36	20	24.12	24.27	24.14	24.20	24.07	26
15	QPSK	36	39	24.15	24.23	24.18	24.13	24.09	
15	QPSK	75	0	24.03	24.21	24.22	24.09	24.13	
15	16QAM	1	0	24.86	24.88	25.19	25.24	25.16	26
15	16QAM	1	37	24.96	24.99	24.96	24.88	25.16	
15	16QAM	1	74	24.66	24.98	25.03	24.74	25.06	
15	16QAM	36	0	23.10	23.19	23.16	23.01	23.10	25
15	16QAM	36	20	23.02	23.15	23.26	23.21	23.09	
15	16QAM	36	39	23.10	23.26	23.34	23.20	23.10	
15	16QAM	75	0	23.06	23.10	23.33	23.12	23.00	25
15	64QAM	1	0	23.67	23.91	24.14	24.06	23.99	
15	64QAM	1	37	23.84	23.91	24.08	23.69	23.59	
15	64QAM	1	74	23.68	24.01	23.65	23.81	23.73	24
15	64QAM	36	0	22.58	22.76	22.80	22.77	22.77	
15	64QAM	36	20	22.58	22.91	22.88	22.58	22.64	
15	64QAM	36	39	22.63	22.80	22.86	22.63	22.75	22
15	64QAM	75	0	22.57	22.76	22.92	22.71	22.78	
15	256QAM	1	0	20.86	20.76	20.92	20.78	20.64	
15	256QAM	1	37	20.80	20.89	21.00	20.92	20.69	22
15	256QAM	1	74	20.90	20.74	21.01	20.88	20.74	
15	256QAM	36	0	20.70	20.70	20.73	20.80	20.67	
15	256QAM	36	20	20.73	20.74	20.80	20.61	20.63	22
15	256QAM	36	39	20.54	20.58	20.80	20.83	20.71	
15	256QAM	75	0	20.68	20.83	20.87	20.61	20.75	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)
10	QPSK	1	0	25.62	25.79	25.83	25.60	25.67	27.00
10	QPSK	1	25	25.51	25.52	25.77	25.76	25.59	
10	QPSK	1	49	25.46	25.54	25.62	25.52	25.50	
10	QPSK	25	0	24.12	24.13	24.21	24.36	24.20	26
10	QPSK	25	12	24.11	24.16	24.24	24.20	24.07	
10	QPSK	25	25	24.12	24.32	24.19	24.06	24.23	
10	QPSK	50	0	24.11	24.14	24.20	24.01	24.11	26
10	16QAM	1	0	24.81	24.88	25.09	25.36	25.13	
10	16QAM	1	25	24.90	24.99	24.93	24.83	25.01	
10	16QAM	1	49	24.67	24.84	25.03	24.68	25.11	25
10	16QAM	25	0	23.15	23.14	23.15	23.16	23.08	
10	16QAM	25	12	23.12	23.20	23.18	23.23	23.16	
10	16QAM	25	25	23.12	23.08	23.28	23.10	23.12	25
10	16QAM	50	0	23.10	23.25	23.42	23.21	23.10	
10	64QAM	1	0	23.67	23.82	24.17	23.98	23.85	
10	64QAM	1	25	23.72	24.00	23.94	23.79	23.64	25
10	64QAM	1	49	23.75	24.06	23.58	23.89	23.63	
10	64QAM	25	0	22.53	22.73	22.76	22.69	22.72	
10	64QAM	25	12	22.69	22.86	23.00	22.59	22.74	24
10	64QAM	25	25	22.73	22.79	22.85	22.82	22.71	
10	64QAM	50	0	22.62	22.80	22.87	22.67	22.86	
10	256QAM	1	0	20.82	20.61	20.86	20.88	20.58	22
10	256QAM	1	25	20.80	20.76	20.96	20.81	20.82	
10	256QAM	1	49	20.90	20.73	20.98	20.79	20.88	
10	256QAM	25	0	20.56	20.76	20.81	20.61	20.56	22
10	256QAM	25	12	20.70	20.65	20.69	20.63	20.59	
10	256QAM	25	25	20.71	20.65	20.74	20.80	20.67	
10	256QAM	50	0	20.67	20.68	20.78	20.60	20.72	
Channel				39675	40148	40620	41093	41565	Tune-up limit
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	(dBm)
5	QPSK	1	0	25.67	25.78	25.79	25.65	25.51	27.00
5	QPSK	1	12	25.53	25.50	25.77	25.71	25.57	
5	QPSK	1	24	25.55	25.66	25.75	25.52	25.36	
5	QPSK	12	0	24.12	24.16	24.28	24.29	24.20	26
5	QPSK	12	7	24.04	24.29	24.21	24.12	24.11	
5	QPSK	12	13	24.03	24.15	24.37	24.13	24.05	
5	QPSK	25	0	24.15	24.17	24.32	24.05	24.27	26
5	16QAM	1	0	24.69	24.91	25.02	25.06	24.98	
5	16QAM	1	12	24.87	24.93	24.97	24.96	25.16	
5	16QAM	1	24	24.62	24.94	25.37	24.64	25.11	25
5	16QAM	12	0	23.08	23.12	23.16	23.17	23.20	
5	16QAM	12	7	23.07	23.27	23.14	23.18	23.11	
5	16QAM	12	13	23.10	23.09	23.40	23.20	23.15	25
5	16QAM	25	0	23.04	23.10	23.44	23.16	23.16	
5	64QAM	1	0	23.72	23.91	24.21	24.04	23.83	
5	64QAM	1	12	23.85	24.02	24.05	23.71	23.58	25
5	64QAM	1	24	23.75	23.92	23.60	23.81	23.64	
5	64QAM	12	0	22.57	22.79	22.93	22.62	22.68	
5	64QAM	12	7	22.57	22.99	22.87	22.65	22.69	24
5	64QAM	12	13	22.67	22.80	23.00	22.82	22.75	
5	64QAM	25	0	22.55	22.85	22.92	22.72	22.76	
5	256QAM	1	0	20.84	20.66	20.99	20.88	20.65	22
5	256QAM	1	12	20.73	20.87	21.04	20.75	20.72	
5	256QAM	1	24	20.72	20.76	21.02	20.88	20.80	
5	256QAM	12	0	20.50	20.59	20.85	20.70	20.60	22
5	256QAM	12	7	20.62	20.71	20.85	20.54	20.56	
5	256QAM	12	13	20.62	20.61	20.88	20.78	20.73	
5	256QAM	25	0	20.64	20.81	20.89	20.76	20.63	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC2_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.77	25.81	25.86	25.82	25.57	27
20	QPSK	1	49	25.71	25.75	25.80	25.79	25.50	
20	QPSK	1	99	25.70	25.71	25.74	25.75	25.48	
20	QPSK	50	0	24.19	24.15	24.23	24.17	24.20	26
20	QPSK	50	24	24.16	24.10	24.11	24.16	24.18	
20	QPSK	50	50	24.17	24.14	24.17	24.11	24.10	
20	QPSK	100	0	24.19	24.15	24.20	24.14	24.16	26
20	16QAM	1	0	24.11	24.13	24.18	24.10	24.17	
20	16QAM	1	49	24.12	24.15	24.12	24.19	24.11	
20	16QAM	1	99	24.18	24.11	24.14	24.11	24.20	25
20	16QAM	50	0	23.13	23.00	23.09	23.12	23.05	
20	16QAM	50	24	23.03	23.15	23.16	23.13	23.09	
20	16QAM	50	50	23.10	23.18	23.12	23.08	23.10	25
20	16QAM	100	0	23.15	23.03	23.10	23.25	23.00	
20	64QAM	1	0	24.36	24.36	24.36	24.40	24.31	25
20	64QAM	1	49	24.41	24.39	24.50	24.47	24.44	
20	64QAM	1	99	24.49	24.56	24.56	24.47	24.52	
20	64QAM	50	0	23.03	23.03	23.06	23.02	23.02	24
20	64QAM	50	24	23.06	23.07	23.18	23.14	23.18	
20	64QAM	50	50	23.05	23.01	23.16	22.96	23.06	
20	64QAM	100	0	23.12	23.05	23.13	23.10	23.17	22
20	256QAM	1	0	20.76	20.72	20.75	20.72	20.80	
20	256QAM	1	49	20.81	20.82	20.78	20.69	20.78	
20	256QAM	1	99	20.79	20.77	20.91	20.82	20.83	22
20	256QAM	50	0	21.01	21.00	21.11	21.13	21.01	
20	256QAM	50	24	21.23	21.12	21.20	21.14	21.17	
20	256QAM	50	50	21.07	21.04	21.13	21.14	21.07	22
20	256QAM	100	0	21.10	21.06	21.15	21.04	21.08	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	25.71	25.73	25.79	25.75	25.48	27
15	QPSK	1	37	25.65	25.73	25.77	25.73	25.45	
15	QPSK	1	74	25.70	25.63	25.65	25.66	25.38	
15	QPSK	36	0	24.12	24.11	24.17	24.10	24.13	26
15	QPSK	36	20	24.12	24.20	24.19	24.17	24.10	
15	QPSK	36	39	24.12	24.11	24.13	24.11	24.19	
15	QPSK	75	0	24.10	24.20	24.20	24.18	24.18	26
15	16QAM	1	0	24.11	24.15	24.20	24.17	24.15	
15	16QAM	1	37	24.14	24.20	24.11	24.13	24.18	
15	16QAM	1	74	24.18	24.11	24.13	24.13	24.11	25
15	16QAM	36	0	23.09	23.00	23.06	23.02	23.02	
15	16QAM	36	20	23.03	23.15	23.09	23.09	23.01	
15	16QAM	36	39	23.07	23.16	23.07	23.00	23.04	25
15	16QAM	75	0	23.12	23.10	23.03	23.15	23.06	
15	64QAM	1	0	24.33	24.27	24.26	24.36	24.30	25
15	64QAM	1	37	24.38	24.36	24.44	24.47	24.36	
15	64QAM	1	74	24.46	24.49	24.54	24.46	24.42	
15	64QAM	36	0	22.99	22.95	23.00	22.97	22.97	24
15	64QAM	36	20	23.00	23.01	23.10	23.08	23.09	
15	64QAM	36	39	23.05	22.98	23.14	22.90	22.97	
15	64QAM	75	0	23.03	23.02	23.04	23.09	23.10	22
15	256QAM	1	0	20.68	20.71	20.73	20.68	20.73	
15	256QAM	1	37	20.71	20.73	20.77	20.65	20.69	
15	256QAM	1	74	20.70	20.72	20.81	20.72	20.82	22
15	256QAM	36	0	20.94	20.92	21.01	21.06	20.91	
15	256QAM	36	20	21.13	21.02	21.11	21.09	21.14	
15	256QAM	36	39	21.01	20.95	21.11	21.08	21.04	22
15	256QAM	75	0	21.04	20.98	21.12	20.95	21.03	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	25.76	25.76	25.80	25.79	25.57	27
10	QPSK	1	25	25.62	25.72	25.71	25.78	25.46	
10	QPSK	1	49	25.73	25.65	25.69	25.66	25.45	
10	QPSK	25	0	24.11	24.10	24.19	24.14	24.19	26
10	QPSK	25	12	24.12	24.11	24.14	24.18	24.20	
10	QPSK	25	25	24.14	24.11	24.11	24.15	24.16	
10	QPSK	50	0	24.14	24.13	24.11	24.20	24.18	26
10	16QAM	1	0	24.10	24.18	24.18	24.12	24.12	
10	16QAM	1	25	24.17	24.18	24.17	24.12	24.12	
10	16QAM	1	49	24.13	24.14	24.19	24.10	24.10	25
10	16QAM	25	0	23.11	23.15	23.08	23.06	23.02	
10	16QAM	25	12	23.02	23.11	23.15	23.05	23.02	
10	16QAM	25	25	23.07	23.15	23.06	23.01	23.04	25
10	16QAM	50	0	23.05	23.00	23.02	23.18	23.20	
10	64QAM	1	0	24.28	24.30	24.27	24.39	24.26	
10	64QAM	1	25	24.39	24.36	24.44	24.46	24.38	25
10	64QAM	1	49	24.39	24.55	24.49	24.37	24.50	
10	64QAM	25	0	22.98	22.95	22.98	22.94	22.98	
10	64QAM	25	12	23.06	23.04	23.15	23.08	23.12	24
10	64QAM	25	25	22.96	22.93	23.07	22.88	23.06	
10	64QAM	50	0	23.09	22.99	23.11	23.10	23.16	
10	256QAM	1	0	20.71	20.71	20.74	20.71	20.77	22
10	256QAM	1	25	20.71	20.72	20.73	20.64	20.70	
10	256QAM	1	49	20.74	20.68	20.86	20.73	20.82	
10	256QAM	25	0	20.99	20.98	21.10	21.08	21.01	22
10	256QAM	25	12	21.19	21.08	21.18	21.12	21.08	
10	256QAM	25	25	21.00	20.98	21.08	21.14	21.06	
10	256QAM	50	0	21.04	21.05	21.11	21.01	20.99	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	25.76	25.80	25.83	25.80	25.54	27
5	QPSK	1	12	25.65	25.72	25.75	25.72	25.47	
5	QPSK	1	24	25.65	25.69	25.71	25.71	25.46	
5	QPSK	12	0	24.15	24.17	24.10	24.16	24.17	26
5	QPSK	12	7	24.19	24.15	24.16	24.20	24.11	
5	QPSK	12	13	24.18	24.12	24.19	24.11	24.11	
5	QPSK	25	0	24.12	24.15	24.18	24.19	24.18	26
5	16QAM	1	0	24.16	24.17	24.18	24.11	24.19	
5	16QAM	1	12	24.15	24.18	24.12	24.18	24.12	
5	16QAM	1	24	24.19	24.15	24.13	24.10	24.10	25
5	16QAM	12	0	23.11	23.10	23.08	23.11	23.10	
5	16QAM	12	7	23.10	23.12	23.13	23.05	23.08	
5	16QAM	12	13	23.00	23.14	23.12	23.01	23.05	25
5	16QAM	25	0	23.08	23.10	23.06	23.25	23.10	
5	64QAM	1	0	24.36	24.32	24.35	24.33	24.25	
5	64QAM	1	12	24.32	24.32	24.41	24.45	24.43	25
5	64QAM	1	24	24.41	24.49	24.56	24.41	24.44	
5	64QAM	12	0	22.99	23.01	23.03	22.99	22.97	
5	64QAM	12	7	22.97	23.04	23.11	23.07	23.09	24
5	64QAM	12	13	23.04	22.94	23.10	22.92	22.96	
5	64QAM	25	0	23.04	23.03	23.04	23.07	23.12	
5	256QAM	1	0	20.73	20.65	20.71	20.64	20.70	22
5	256QAM	1	12	20.75	20.81	20.77	20.62	20.71	
5	256QAM	1	24	20.79	20.72	20.87	20.76	20.82	
5	256QAM	12	0	20.98	20.93	21.02	21.11	20.94	22
5	256QAM	12	7	21.17	21.11	21.11	21.10	21.17	
5	256QAM	12	13	21.07	21.04	21.04	21.10	21.00	
5	256QAM	25	0	21.02	21.00	21.14	20.95	20.99	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC2_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	17
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	16.39	16.39	16.48	16.34	16.16	
20	QPSK	1	49	16.38	16.38	16.24	16.24	16.01	17
20	QPSK	1	99	16.32	16.37	16.14	16.18	15.93	
20	QPSK	50	0	16.40	16.33	16.41	16.21	16.12	
20	QPSK	50	24	16.32	16.30	16.10	16.07	16.05	17
20	QPSK	50	50	16.28	16.32	16.27	16.09	16.00	
20	QPSK	100	0	16.30	16.28	16.38	16.15	16.06	
20	16QAM	1	0	16.40	16.25	16.28	16.07	15.99	17
20	16QAM	1	49	16.33	16.31	16.22	16.23	15.99	
20	16QAM	1	99	16.29	16.40	16.18	16.18	15.99	
20	16QAM	50	0	16.46	16.35	16.27	16.22	15.93	17
20	16QAM	50	24	16.37	16.30	16.11	16.16	16.00	
20	16QAM	50	50	16.40	16.29	16.19	16.23	15.86	
20	16QAM	100	0	16.33	16.37	16.10	16.12	15.91	17
20	64QAM	1	0	16.46	16.37	16.18	16.11	16.03	
20	64QAM	1	49	16.40	16.20	16.12	16.20	15.86	
20	64QAM	1	99	16.42	16.21	16.18	16.08	15.91	17
20	64QAM	50	0	16.34	16.21	16.12	16.20	15.94	
20	64QAM	50	24	16.31	16.38	16.19	16.09	15.92	
20	64QAM	50	50	16.43	16.38	16.10	16.10	15.91	17
20	64QAM	100	0	16.41	16.26	16.21	16.12	15.91	
20	256QAM	1	0	16.36	16.24	16.26	16.24	15.96	
20	256QAM	1	49	16.42	16.31	16.19	16.24	15.91	17
20	256QAM	1	99	16.29	16.40	16.29	16.16	15.93	
20	256QAM	50	0	16.37	16.23	16.11	16.06	15.87	
20	256QAM	50	24	16.34	16.32	16.30	16.22	16.04	17
20	256QAM	50	50	16.42	16.33	16.11	16.05	15.96	
20	256QAM	100	0	16.45	16.24	16.23	16.21	15.94	
Channel				39725	40173	40620	41068	41515	17.00
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	16.28	16.14	16.40	16.30	16.06	
15	QPSK	1	37	16.31	16.20	16.14	16.11	16.02	17
15	QPSK	1	74	16.40	16.28	16.22	16.23	16.01	
15	QPSK	36	0	16.44	16.34	16.10	16.07	16.05	
15	QPSK	36	20	16.37	16.22	16.13	16.08	15.99	17
15	QPSK	36	39	16.44	16.30	16.16	16.05	15.86	
15	QPSK	75	0	16.44	16.25	16.26	16.20	15.87	
15	16QAM	1	0	16.30	16.30	16.13	16.07	16.05	17
15	16QAM	1	37	16.43	16.28	16.28	16.04	15.90	
15	16QAM	1	74	16.44	16.28	16.25	16.11	15.99	
15	16QAM	36	0	16.42	16.29	16.12	16.15	15.94	17
15	16QAM	36	20	16.33	16.27	16.27	16.12	16.01	
15	16QAM	36	39	16.44	16.27	16.16	16.07	15.93	
15	16QAM	75	0	16.34	16.21	16.12	16.17	15.87	17
15	64QAM	1	0	16.42	16.24	16.14	16.10	15.96	
15	64QAM	1	37	16.46	16.21	16.28	16.06	16.03	
15	64QAM	1	74	16.28	16.22	16.11	16.21	15.93	17
15	64QAM	36	0	16.35	16.36	16.23	16.11	15.97	
15	64QAM	36	20	16.32	16.32	16.22	16.18	16.04	
15	64QAM	36	39	16.37	16.39	16.25	16.13	15.93	17
15	64QAM	75	0	16.28	16.36	16.10	16.13	15.89	
15	256QAM	1	0	16.47	16.30	16.14	16.17	15.94	
15	256QAM	1	37	16.32	16.37	16.10	16.19	15.98	17
15	256QAM	1	74	16.29	16.34	16.22	16.08	15.98	
15	256QAM	36	0	16.41	16.25	16.23	16.15	16.00	
15	256QAM	36	20	16.43	16.37	16.13	16.19	15.95	17
15	256QAM	36	39	16.47	16.35	16.27	16.06	16.05	
15	256QAM	75	0	16.40	16.34	16.12	16.12	16.03	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	16.23	16.10	16.32	16.15	16.01	17.00
10	QPSK	1	25	16.29	16.35	16.29	16.08	15.88	
10	QPSK	1	49	16.41	16.26	16.30	16.24	16.00	
10	QPSK	25	0	16.40	16.31	16.21	16.16	15.92	17
10	QPSK	25	12	16.34	16.21	16.18	16.07	16.02	
10	QPSK	25	25	16.39	16.34	16.11	16.20	15.95	
10	QPSK	50	0	16.37	16.30	16.20	16.22	16.06	17
10	16QAM	1	0	16.30	16.31	16.29	16.06	15.92	
10	16QAM	1	25	16.46	16.29	16.26	16.18	15.88	
10	16QAM	1	49	16.41	16.40	16.24	16.24	15.98	17
10	16QAM	25	0	16.42	16.31	16.19	16.24	15.91	
10	16QAM	25	12	16.40	16.24	16.21	16.11	15.93	
10	16QAM	25	25	16.31	16.23	16.12	16.20	16.05	17
10	16QAM	50	0	16.40	16.36	16.14	16.08	15.93	
10	64QAM	1	0	16.47	16.37	16.17	16.21	15.98	
10	64QAM	1	25	16.30	16.31	16.25	16.10	16.06	17
10	64QAM	1	49	16.30	16.33	16.10	16.13	16.00	
10	64QAM	25	0	16.43	16.30	16.24	16.12	16.00	
10	64QAM	25	12	16.43	16.34	16.10	16.10	16.00	17
10	64QAM	25	25	16.29	16.40	16.23	16.21	15.87	
10	64QAM	50	0	16.45	16.20	16.13	16.16	15.92	
10	256QAM	1	0	16.39	16.23	16.23	16.09	15.99	17
10	256QAM	1	25	16.38	16.35	16.21	16.22	16.03	
10	256QAM	1	49	16.45	16.40	16.15	16.18	16.04	
10	256QAM	25	0	16.41	16.30	16.16	16.13	15.96	17
10	256QAM	25	12	16.47	16.32	16.18	16.12	15.90	
10	256QAM	25	25	16.29	16.32	16.19	16.18	15.95	
10	256QAM	50	0	16.44	16.35	16.20	16.15	15.98	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	16.30	16.16	16.27	16.15	16.03	17.00
5	QPSK	1	12	16.33	16.34	16.16	16.09	16.01	
5	QPSK	1	24	16.43	16.21	16.12	16.19	15.88	
5	QPSK	12	0	16.34	16.24	16.22	16.06	15.93	17
5	QPSK	12	7	16.40	16.27	16.30	16.19	15.95	
5	QPSK	12	13	16.32	16.29	16.26	16.16	15.92	
5	QPSK	25	0	16.44	16.20	16.14	16.13	15.86	17
5	16QAM	1	0	16.44	16.26	16.24	16.21	15.88	
5	16QAM	1	12	16.32	16.23	16.25	16.16	15.88	
5	16QAM	1	24	16.30	16.27	16.10	16.05	16.03	17
5	16QAM	12	0	16.33	16.32	16.22	16.05	15.92	
5	16QAM	12	7	16.35	16.37	16.21	16.24	15.95	
5	16QAM	12	13	16.43	16.30	16.25	16.20	16.03	17
5	16QAM	25	0	16.33	16.21	16.22	16.05	15.96	
5	64QAM	1	0	16.41	16.30	16.14	16.22	15.94	
5	64QAM	1	12	16.31	16.32	16.19	16.06	15.92	17
5	64QAM	1	24	16.43	16.40	16.27	16.13	16.05	
5	64QAM	12	0	16.37	16.34	16.24	16.04	15.94	
5	64QAM	12	7	16.36	16.37	16.10	16.08	16.00	17
5	64QAM	12	13	16.40	16.34	16.15	16.21	15.93	
5	64QAM	25	0	16.37	16.35	16.24	16.13	15.88	
5	256QAM	1	0	16.34	16.38	16.12	16.16	15.92	17
5	256QAM	1	12	16.45	16.29	16.21	16.08	15.95	
5	256QAM	1	24	16.35	16.29	16.27	16.16	15.99	
5	256QAM	12	0	16.40	16.32	16.15	16.22	15.94	17
5	256QAM	12	7	16.40	16.31	16.23	16.06	15.97	
5	256QAM	12	13	16.43	16.40	16.25	16.06	15.93	
5	256QAM	25	0	16.35	16.38	16.12	16.23	15.96	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 41_PC2_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.84	22.85	22.94	22.93	22.70	23
20	QPSK	1	49	22.53	22.61	22.73	22.72	22.46	
20	QPSK	1	99	22.52	22.59	22.69	22.58	22.42	
20	QPSK	50	0	22.66	22.70	22.74	22.70	22.64	23
20	QPSK	50	24	22.62	22.67	22.63	22.69	22.59	
20	QPSK	50	50	22.61	22.62	22.61	22.66	22.55	
20	QPSK	100	0	22.59	22.64	22.75	22.69	22.51	23
20	16QAM	1	0	22.79	22.80	22.90	22.80	22.60	
20	16QAM	1	49	22.81	22.76	22.93	22.84	22.61	
20	16QAM	1	99	22.76	22.73	22.91	22.85	22.61	23
20	16QAM	50	0	22.61	22.67	22.79	22.68	22.48	
20	16QAM	50	24	22.79	22.78	22.90	22.79	22.59	
20	16QAM	50	50	22.78	22.71	22.88	22.85	22.61	23
20	16QAM	100	0	22.61	22.62	22.78	22.75	22.54	
20	64QAM	1	0	22.52	22.49	22.62	22.52	22.34	
20	64QAM	1	49	22.49	22.40	22.59	22.55	22.29	23
20	64QAM	1	99	22.52	22.53	22.67	22.66	22.34	
20	64QAM	50	0	22.61	22.64	22.73	22.68	22.40	
20	64QAM	50	24	22.68	22.63	22.81	22.71	22.49	23
20	64QAM	50	50	22.67	22.73	22.83	22.72	22.57	
20	64QAM	100	0	22.70	22.69	22.85	22.81	22.61	
20	256QAM	1	0	21.02	21.07	21.19	21.10	20.88	22
20	256QAM	1	49	21.09	21.16	21.28	21.18	21.02	
20	256QAM	1	99	21.15	21.11	21.26	21.17	20.96	
20	256QAM	50	0	20.77	20.79	20.88	20.82	20.56	22
20	256QAM	50	24	20.78	20.87	20.97	20.91	20.73	
20	256QAM	50	50	20.81	20.84	20.96	20.89	20.66	
20	256QAM	100	0	20.75	20.71	20.90	20.79	20.65	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.80	22.75	22.92	22.88	22.65	23.00
15	QPSK	1	37	22.54	22.59	22.65	22.69	22.40	
15	QPSK	1	74	22.47	22.51	22.66	22.61	22.33	
15	QPSK	36	0	22.44	22.57	22.64	22.63	22.35	23
15	QPSK	36	20	22.70	22.65	22.81	22.74	22.48	
15	QPSK	36	39	22.57	22.57	22.71	22.66	22.53	
15	QPSK	75	0	22.56	22.55	22.70	22.62	22.40	23
15	16QAM	1	0	22.70	22.71	22.75	22.79	22.53	
15	16QAM	1	37	22.77	22.75	22.88	22.78	22.59	
15	16QAM	1	74	22.71	22.72	22.78	22.74	22.52	23
15	16QAM	36	0	22.57	22.61	22.60	22.63	22.37	
15	16QAM	36	20	22.68	22.68	22.84	22.75	22.51	
15	16QAM	36	39	22.64	22.69	22.81	22.70	22.60	23
15	16QAM	75	0	22.62	22.62	22.64	22.70	22.44	
15	64QAM	1	0	22.41	22.43	22.56	22.48	22.30	
15	64QAM	1	37	22.37	22.41	22.53	22.47	22.20	23
15	64QAM	1	74	22.39	22.43	22.52	22.50	22.34	
15	64QAM	36	0	22.55	22.50	22.61	22.63	22.36	
15	64QAM	36	20	22.56	22.58	22.68	22.64	22.54	23
15	64QAM	36	39	22.68	22.62	22.76	22.82	22.43	
15	64QAM	75	0	22.72	22.66	22.75	22.80	22.54	
15	256QAM	1	0	21.02	21.02	20.99	21.05	20.94	22
15	256QAM	1	37	21.12	21.11	21.21	21.14	20.98	
15	256QAM	1	74	21.13	21.06	21.09	21.13	20.87	
15	256QAM	36	0	20.65	20.62	20.79	20.77	20.45	22
15	256QAM	36	20	20.80	20.77	20.83	20.82	20.56	
15	256QAM	36	39	20.71	20.77	20.76	20.85	20.58	
15	256QAM	75	0	20.74	20.76	20.84	20.77	20.54	



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Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.76	22.75	22.85	22.85	22.61	23.00
10	QPSK	1	25	22.55	22.52	22.59	22.57	22.42	
10	QPSK	1	49	22.53	22.48	22.59	22.56	22.32	
10	QPSK	25	0	22.51	22.65	22.58	22.69	22.47	23
10	QPSK	25	12	22.71	22.68	22.68	22.69	22.45	
10	QPSK	25	25	22.61	22.55	22.63	22.77	22.38	
10	QPSK	50	0	22.61	22.54	22.60	22.63	22.32	23
10	16QAM	1	0	22.66	22.67	22.86	22.84	22.61	
10	16QAM	1	25	22.73	22.81	22.74	22.90	22.59	
10	16QAM	1	49	22.68	22.75	22.75	22.78	22.53	23
10	16QAM	25	0	22.54	22.64	22.64	22.69	22.44	
10	16QAM	25	12	22.69	22.61	22.77	22.79	22.50	
10	16QAM	25	25	22.70	22.67	22.77	22.72	22.51	23
10	16QAM	50	0	22.63	22.52	22.71	22.73	22.45	
10	64QAM	1	0	22.37	22.41	22.55	22.51	22.33	
10	64QAM	1	25	22.41	22.41	22.41	22.40	22.21	23
10	64QAM	1	49	22.46	22.52	22.61	22.57	22.23	
10	64QAM	25	0	22.49	22.55	22.69	22.68	22.36	
10	64QAM	25	12	22.60	22.59	22.79	22.68	22.44	23
10	64QAM	25	25	22.63	22.64	22.68	22.72	22.48	
10	64QAM	50	0	22.59	22.72	22.77	22.77	22.52	
10	256QAM	1	0	20.92	21.01	21.01	21.05	20.85	22
10	256QAM	1	25	21.14	21.09	21.08	21.20	20.93	
10	256QAM	1	49	21.07	21.05	21.19	21.06	20.96	
10	256QAM	25	0	20.66	20.78	20.82	20.82	20.62	22
10	256QAM	25	12	20.87	20.72	20.88	20.80	20.57	
10	256QAM	25	25	20.73	20.80	20.87	20.89	20.69	
10	256QAM	50	0	20.70	20.68	20.88	20.86	20.61	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.81	22.80	22.88	22.85	22.64	23.00
5	QPSK	1	12	22.54	22.59	22.67	22.61	22.34	
5	QPSK	1	24	22.51	22.55	22.66	22.48	22.28	
5	QPSK	12	0	22.54	22.47	22.66	22.60	22.40	23
5	QPSK	12	7	22.65	22.61	22.70	22.74	22.50	
5	QPSK	12	13	22.64	22.62	22.62	22.66	22.47	
5	QPSK	25	0	22.53	22.61	22.57	22.61	22.38	23
5	16QAM	1	0	22.78	22.76	22.81	22.77	22.53	
5	16QAM	1	12	22.83	22.84	22.93	22.83	22.57	
5	16QAM	1	24	22.72	22.70	22.80	22.80	22.64	23
5	16QAM	12	0	22.58	22.52	22.70	22.69	22.42	
5	16QAM	12	7	22.74	22.69	22.83	22.78	22.52	
5	16QAM	12	13	22.65	22.68	22.84	22.70	22.54	23
5	16QAM	25	0	22.60	22.55	22.70	22.66	22.51	
5	64QAM	1	0	22.49	22.50	22.55	22.55	22.31	
5	64QAM	1	12	22.39	22.44	22.54	22.48	22.27	23
5	64QAM	1	24	22.46	22.47	22.58	22.56	22.31	
5	64QAM	12	0	22.49	22.53	22.68	22.61	22.36	
5	64QAM	12	7	22.52	22.68	22.78	22.71	22.48	23
5	64QAM	12	13	22.63	22.72	22.70	22.81	22.41	
5	64QAM	25	0	22.65	22.64	22.76	22.80	22.48	
5	256QAM	1	0	21.01	21.04	21.09	21.15	20.86	22
5	256QAM	1	12	21.10	21.05	21.16	21.07	20.97	
5	256QAM	1	24	21.06	21.14	21.16	21.15	20.98	
5	256QAM	12	0	20.65	20.72	20.72	20.68	20.59	22
5	256QAM	12	7	20.84	20.81	20.88	20.80	20.63	
5	256QAM	12	13	20.77	20.79	20.81	20.87	20.70	
5	256QAM	25	0	20.74	20.78	20.76	20.77	20.61	



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Report No. : FA3N0842

<LTE Band 42_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	21.42	21.72	21.53	
20	QPSK	1	49	21.39	21.36	21.42	22
20	QPSK	1	99	21.25	21.26	21.30	
20	QPSK	50	0	21.35	21.42	21.36	
20	QPSK	50	24	21.34	21.35	21.35	22
20	QPSK	50	50	21.31	21.35	21.32	
20	QPSK	100	0	21.37	21.40	21.32	
20	16QAM	1	0	21.39	21.34	21.33	22
20	16QAM	1	49	21.55	21.59	21.46	
20	16QAM	1	99	21.16	21.22	21.11	
20	16QAM	50	0	21.35	21.44	21.33	22
20	16QAM	50	24	21.43	21.54	21.48	
20	16QAM	50	50	21.29	21.42	21.30	
20	16QAM	100	0	21.51	21.41	21.53	22
20	64QAM	1	0	21.27	21.47	21.31	
20	64QAM	1	49	21.32	21.38	21.35	
20	64QAM	1	99	21.42	21.33	21.47	21
20	64QAM	50	0	20.43	20.42	20.38	
20	64QAM	50	24	20.54	20.42	20.31	
20	64QAM	50	50	20.42	20.31	20.33	20
20	64QAM	100	0	20.33	20.47	20.41	
20	256QAM	1	0	18.85	18.69	19.00	
20	256QAM	1	49	18.80	18.76	18.92	20
20	256QAM	1	99	18.85	19.01	19.02	
20	256QAM	50	0	18.87	19.06	19.01	
20	256QAM	50	24	18.97	18.88	19.01	20
20	256QAM	50	50	18.99	19.02	18.98	
20	256QAM	100	0	18.89	18.97	18.91	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	21.38	21.48	21.43	
15	QPSK	1	37	20.99	21.33	21.04	22
15	QPSK	1	74	21.17	21.07	21.11	
15	QPSK	36	0	21.29	21.30	21.34	
15	QPSK	36	20	21.23	21.35	21.31	22
15	QPSK	36	39	21.22	21.26	21.20	
15	QPSK	75	0	21.26	21.34	21.15	
15	16QAM	1	0	21.25	21.15	21.16	22
15	16QAM	1	37	21.44	21.40	21.36	
15	16QAM	1	74	21.12	21.17	21.06	
15	16QAM	36	0	21.20	21.31	21.26	22
15	16QAM	36	20	21.34	21.45	21.48	
15	16QAM	36	39	21.28	21.27	21.14	
15	16QAM	75	0	21.48	21.22	21.43	22
15	64QAM	1	0	21.15	21.29	21.19	
15	64QAM	1	37	21.23	21.36	21.24	
15	64QAM	1	74	21.41	21.13	21.30	21
15	64QAM	36	0	20.41	20.33	20.37	
15	64QAM	36	20	20.36	20.29	20.24	
15	64QAM	36	39	20.32	20.11	20.19	20
15	64QAM	75	0	20.33	20.32	20.39	
15	256QAM	1	0	18.83	18.59	18.93	
15	256QAM	1	37	18.77	18.75	18.79	20
15	256QAM	1	74	18.73	18.98	19.00	
15	256QAM	36	0	18.77	18.98	18.93	
15	256QAM	36	20	18.97	18.69	18.83	20
15	256QAM	36	39	18.79	18.88	18.80	
15	256QAM	75	0	18.73	18.77	18.78	



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Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	21.29	21.49	21.46	22
10	QPSK	1	25	21.02	21.27	21.22	
10	QPSK	1	49	21.10	21.08	21.13	
10	QPSK	25	0	21.35	21.29	21.19	22
10	QPSK	25	12	21.14	21.35	21.29	
10	QPSK	25	25	21.21	21.25	21.34	
10	QPSK	50	0	21.20	21.22	21.15	22
10	16QAM	1	0	21.33	21.30	21.31	
10	16QAM	1	25	21.45	21.50	21.45	
10	16QAM	1	49	21.15	21.20	21.07	22
10	16QAM	25	0	21.20	21.33	21.31	
10	16QAM	25	12	21.32	21.35	21.30	
10	16QAM	25	25	21.23	21.32	21.16	22
10	16QAM	50	0	21.33	21.36	21.46	
10	64QAM	1	0	21.07	21.33	21.26	
10	64QAM	1	25	21.14	21.24	21.19	22
10	64QAM	1	49	21.28	21.22	21.31	
10	64QAM	25	0	20.38	20.34	20.21	
10	64QAM	25	12	20.44	20.42	20.30	21
10	64QAM	25	25	20.40	20.27	20.31	
10	64QAM	50	0	20.19	20.41	20.21	
10	256QAM	1	0	18.73	18.55	18.87	20
10	256QAM	1	25	18.70	18.61	18.79	
10	256QAM	1	49	18.77	18.91	18.87	
10	256QAM	25	0	18.80	18.89	18.94	20
10	256QAM	25	12	18.86	18.72	18.86	
10	256QAM	25	25	18.90	18.89	18.78	
10	256QAM	50	0	18.71	18.77	18.79	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	21.36	21.44	21.51	22
5	QPSK	1	12	21.14	21.33	21.19	
5	QPSK	1	24	21.24	21.22	21.12	
5	QPSK	12	0	21.39	21.33	21.26	22
5	QPSK	12	7	21.23	21.19	21.41	
5	QPSK	12	13	21.23	21.19	21.26	
5	QPSK	25	0	21.19	21.39	21.23	22
5	16QAM	1	0	21.32	21.34	21.33	
5	16QAM	1	12	21.47	21.60	21.62	
5	16QAM	1	24	21.40	21.15	21.15	22
5	16QAM	12	0	21.34	21.44	21.32	
5	16QAM	12	7	21.30	21.45	21.38	
5	16QAM	12	13	21.10	21.31	21.25	22
5	16QAM	25	0	21.39	21.41	21.48	
5	64QAM	1	0	21.17	21.41	21.25	
5	64QAM	1	12	21.19	21.20	21.27	22
5	64QAM	1	24	21.40	21.23	21.38	
5	64QAM	12	0	20.35	20.31	20.32	
5	64QAM	12	7	20.50	20.41	20.19	21
5	64QAM	12	13	20.25	20.27	20.25	
5	64QAM	25	0	20.32	20.39	20.27	
5	256QAM	1	0	18.74	18.52	19.00	20
5	256QAM	1	12	18.78	18.63	18.87	
5	256QAM	1	24	18.84	18.89	18.97	
5	256QAM	12	0	18.87	18.97	19.00	20
5	256QAM	12	7	18.87	18.88	18.99	
5	256QAM	12	13	18.96	18.89	18.92	
5	256QAM	25	0	18.77	18.85	18.91	



<LTE Band 42_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	21.32	21.34	21.25	
20	QPSK	1	49	21.18	21.26	21.16	22
20	QPSK	1	99	21.17	21.21	21.15	
20	QPSK	50	0	21.29	21.30	21.21	
20	QPSK	50	24	21.13	21.12	21.29	22
20	QPSK	50	50	21.27	21.24	21.16	
20	QPSK	100	0	21.20	21.21	21.16	
20	16QAM	1	0	21.28	21.16	21.15	22
20	16QAM	1	49	21.25	21.11	21.29	
20	16QAM	1	99	21.28	21.23	21.12	
20	16QAM	50	0	21.26	21.16	21.13	22
20	16QAM	50	24	21.17	21.24	21.26	
20	16QAM	50	50	21.12	21.18	21.10	
20	16QAM	100	0	21.13	21.26	21.21	22
20	64QAM	1	0	21.28	21.27	21.10	
20	64QAM	1	49	21.25	21.26	21.26	
20	64QAM	1	99	21.20	21.26	21.22	21
20	64QAM	50	0	20.13	20.11	20.21	
20	64QAM	50	24	20.01	20.27	20.14	
20	64QAM	50	50	20.01	20.17	20.12	19
20	64QAM	100	0	20.10	20.17	19.99	
20	256QAM	1	0	17.76	17.93	17.88	
20	256QAM	1	49	17.84	17.71	17.71	19
20	256QAM	1	99	17.70	17.89	17.85	
20	256QAM	50	0	18.04	18.10	18.20	
20	256QAM	50	24	18.22	18.25	18.18	19
20	256QAM	50	50	18.09	18.17	18.13	
20	256QAM	100	0	18.11	18.27	18.14	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	21.21	21.30	21.11	
15	QPSK	1	37	21.21	21.13	21.23	22
15	QPSK	1	74	21.13	21.29	21.12	
15	QPSK	36	0	21.16	21.12	21.23	
15	QPSK	36	20	21.22	21.22	21.28	22
15	QPSK	36	39	21.30	21.25	21.14	
15	QPSK	75	0	21.30	21.15	21.10	
15	16QAM	1	0	21.16	21.27	21.26	22
15	16QAM	1	37	21.13	21.13	21.22	
15	16QAM	1	74	21.13	21.23	21.10	
15	16QAM	36	0	21.27	21.16	21.29	22
15	16QAM	36	20	21.12	21.25	21.30	
15	16QAM	36	39	21.25	21.21	21.24	
15	16QAM	75	0	21.18	21.18	21.17	22
15	64QAM	1	0	21.18	21.10	21.23	
15	64QAM	1	37	21.22	21.13	21.28	
15	64QAM	1	74	21.19	21.13	21.23	21
15	64QAM	36	0	20.11	20.06	20.06	
15	64QAM	36	20	20.02	20.18	20.04	
15	64QAM	36	39	20.04	20.21	20.25	19
15	64QAM	75	0	20.20	20.20	19.98	
15	256QAM	1	0	17.76	17.98	17.92	
15	256QAM	1	37	17.75	17.85	17.61	19
15	256QAM	1	74	17.80	17.73	17.85	
15	256QAM	36	0	17.97	18.26	18.26	
15	256QAM	36	20	18.26	18.27	18.27	19
15	256QAM	36	39	18.19	18.16	18.13	
15	256QAM	75	0	18.16	18.27	18.20	



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Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	21.15	21.31	21.06	22
10	QPSK	1	25	21.20	21.30	21.20	
10	QPSK	1	49	21.20	21.22	21.29	
10	QPSK	25	0	21.19	21.18	21.25	22
10	QPSK	25	12	21.18	21.23	21.20	
10	QPSK	25	25	21.22	21.15	21.29	
10	QPSK	50	0	21.11	21.11	21.13	22
10	16QAM	1	0	21.26	21.27	21.29	
10	16QAM	1	25	21.23	21.19	21.23	
10	16QAM	1	49	21.16	21.22	21.25	22
10	16QAM	25	0	21.16	21.23	21.17	
10	16QAM	25	12	21.23	21.20	21.27	
10	16QAM	25	25	21.24	21.12	21.13	22
10	16QAM	50	0	21.16	21.22	21.10	
10	64QAM	1	0	21.15	21.17	21.13	
10	64QAM	1	25	21.18	21.22	21.11	22
10	64QAM	1	49	21.18	21.27	21.17	
10	64QAM	25	0	20.08	20.11	20.07	
10	64QAM	25	12	20.18	20.21	20.21	21
10	64QAM	25	25	20.07	20.21	20.06	
10	64QAM	50	0	20.25	20.17	20.14	
10	256QAM	1	0	17.91	17.89	17.92	19
10	256QAM	1	25	17.65	17.75	17.69	
10	256QAM	1	49	17.77	17.80	17.67	
10	256QAM	25	0	18.04	18.18	18.16	19
10	256QAM	25	12	18.32	18.15	18.19	
10	256QAM	25	25	18.17	18.07	18.20	
10	256QAM	50	0	18.21	18.27	18.16	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	21.19	21.25	21.10	22
5	QPSK	1	12	21.30	21.30	21.19	
5	QPSK	1	24	21.30	21.23	21.26	
5	QPSK	12	0	21.22	21.24	21.13	22
5	QPSK	12	7	21.11	21.10	21.20	
5	QPSK	12	13	21.27	21.27	21.21	
5	QPSK	25	0	21.24	21.20	21.28	22
5	16QAM	1	0	21.21	21.21	21.12	
5	16QAM	1	12	21.23	21.19	21.20	
5	16QAM	1	24	21.30	21.13	21.29	22
5	16QAM	12	0	21.13	21.20	21.29	
5	16QAM	12	7	21.23	21.20	21.22	
5	16QAM	12	13	21.10	21.30	21.17	22
5	16QAM	25	0	21.25	21.12	21.13	
5	64QAM	1	0	21.13	21.17	21.16	
5	64QAM	1	12	21.29	21.22	21.11	22
5	64QAM	1	24	21.10	21.22	21.15	
5	64QAM	12	0	20.10	20.11	20.22	
5	64QAM	12	7	20.05	20.08	20.09	21
5	64QAM	12	13	20.05	20.17	20.26	
5	64QAM	25	0	20.10	20.22	20.02	
5	256QAM	1	0	17.72	17.88	17.91	19
5	256QAM	1	12	17.81	17.90	17.66	
5	256QAM	1	24	17.86	17.83	17.81	
5	256QAM	12	0	18.12	18.26	18.13	19
5	256QAM	12	7	18.31	18.34	18.29	
5	256QAM	12	13	18.02	18.09	18.24	
5	256QAM	25	0	18.11	18.25	18.03	



<LTE Band 42_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	12.40	12.46	12.30	
20	QPSK	1	49	12.34	12.28	12.29	13
20	QPSK	1	99	12.23	12.32	12.22	
20	QPSK	50	0	12.30	12.33	12.19	
20	QPSK	50	24	12.29	12.29	12.28	13
20	QPSK	50	50	12.30	12.16	12.23	
20	QPSK	100	0	12.27	12.25	12.11	
20	16QAM	1	0	12.22	12.17	12.14	13
20	16QAM	1	49	12.32	12.33	12.30	
20	16QAM	1	99	12.33	12.19	12.14	
20	16QAM	50	0	12.28	12.25	12.11	13
20	16QAM	50	24	12.21	12.32	12.10	
20	16QAM	50	50	12.34	12.25	12.13	
20	16QAM	100	0	12.23	12.20	12.18	13
20	64QAM	1	0	12.34	12.30	12.28	
20	64QAM	1	49	12.37	12.23	12.11	
20	64QAM	1	99	12.27	12.31	12.20	13
20	64QAM	50	0	12.30	12.19	12.11	
20	64QAM	50	24	12.34	12.16	12.15	
20	64QAM	50	50	12.35	12.35	12.10	13
20	64QAM	100	0	12.39	12.36	12.28	
20	256QAM	1	0	12.22	12.28	12.30	
20	256QAM	1	49	12.23	12.35	12.26	13
20	256QAM	1	99	12.32	12.22	12.28	
20	256QAM	50	0	12.27	12.24	12.24	
20	256QAM	50	24	12.35	12.35	12.10	13
20	256QAM	50	50	12.32	12.30	12.17	
20	256QAM	100	0	12.21	12.28	12.26	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	12.26	12.34	12.20	
15	QPSK	1	37	12.17	12.19	12.15	13
15	QPSK	1	74	12.13	12.20	12.16	
15	QPSK	36	0	12.23	12.26	12.11	
15	QPSK	36	20	12.23	12.09	12.11	13
15	QPSK	36	39	12.27	12.00	12.07	
15	QPSK	75	0	12.12	12.08	12.05	
15	16QAM	1	0	12.19	12.09	12.09	13
15	16QAM	1	37	12.26	12.29	12.23	
15	16QAM	1	74	12.20	12.07	12.12	
15	16QAM	36	0	12.25	12.22	12.10	13
15	16QAM	36	20	12.13	12.27	11.94	
15	16QAM	36	39	12.14	12.12	12.08	
15	16QAM	75	0	12.04	12.06	12.08	13
15	64QAM	1	0	12.27	12.28	12.26	
15	64QAM	1	37	12.18	12.23	12.02	
15	64QAM	1	74	12.18	12.12	12.11	13
15	64QAM	36	0	12.30	12.09	12.07	
15	64QAM	36	20	12.23	12.12	12.09	
15	64QAM	36	39	12.35	12.20	12.07	13
15	64QAM	75	0	12.34	12.35	12.28	
15	256QAM	1	0	12.06	12.15	12.26	
15	256QAM	1	37	12.11	12.34	12.24	13
15	256QAM	1	74	12.20	12.02	12.18	
15	256QAM	36	0	12.23	12.20	12.10	
15	256QAM	36	20	12.34	12.27	11.97	13
15	256QAM	36	39	12.12	12.21	12.12	
15	256QAM	75	0	12.01	12.09	12.09	



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Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	12.34	12.42	12.21	13
10	QPSK	1	25	12.23	12.27	12.14	
10	QPSK	1	49	12.06	12.21	12.21	
10	QPSK	25	0	12.27	12.16	12.01	13
10	QPSK	25	12	12.27	12.23	12.17	
10	QPSK	25	25	12.19	12.05	12.23	
10	QPSK	50	0	12.19	12.25	12.11	13
10	16QAM	1	0	12.19	12.14	12.03	
10	16QAM	1	25	12.22	12.25	12.12	
10	16QAM	1	49	12.23	12.10	11.98	13
10	16QAM	25	0	12.15	12.05	12.11	
10	16QAM	25	12	12.18	12.28	11.91	
10	16QAM	25	25	12.25	12.10	12.12	13
10	16QAM	50	0	12.22	12.07	12.09	
10	64QAM	1	0	12.18	12.14	12.21	
10	64QAM	1	25	12.31	12.05	12.11	13
10	64QAM	1	49	12.08	12.11	12.10	
10	64QAM	25	0	12.18	12.15	12.08	
10	64QAM	25	12	12.34	12.10	12.07	13
10	64QAM	25	25	12.24	12.27	11.92	
10	64QAM	50	0	12.26	12.18	12.26	
10	256QAM	1	0	12.16	12.14	12.25	13
10	256QAM	1	25	12.19	12.23	12.10	
10	256QAM	1	49	12.22	12.09	12.15	
10	256QAM	25	0	12.17	12.19	12.13	13
10	256QAM	25	12	12.19	12.35	11.93	
10	256QAM	25	25	12.26	12.18	12.01	
10	256QAM	50	0	12.12	12.23	12.15	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	12.30	12.28	12.28	13
5	QPSK	1	12	12.22	12.11	12.12	
5	QPSK	1	24	12.09	12.15	12.16	
5	QPSK	12	0	12.31	12.27	12.09	13
5	QPSK	12	7	12.20	12.21	12.22	
5	QPSK	12	13	12.34	12.01	12.18	
5	QPSK	25	0	12.09	12.07	12.09	13
5	16QAM	1	0	12.11	12.06	12.09	
5	16QAM	1	12	12.28	12.19	12.26	
5	16QAM	1	24	12.24	12.18	12.13	13
5	16QAM	12	0	12.23	12.09	12.11	
5	16QAM	12	7	12.03	12.12	11.97	
5	16QAM	12	13	12.29	12.16	11.94	13
5	16QAM	25	0	12.14	12.16	11.99	
5	64QAM	1	0	12.26	12.21	12.11	
5	64QAM	1	12	12.19	12.12	12.05	13
5	64QAM	1	24	12.13	12.12	12.04	
5	64QAM	12	0	12.16	12.09	11.98	
5	64QAM	12	7	12.14	12.06	11.99	13
5	64QAM	12	13	12.28	12.30	12.10	
5	64QAM	25	0	12.38	12.31	12.10	
5	256QAM	1	0	12.21	12.19	12.10	13
5	256QAM	1	12	12.19	12.25	12.21	
5	256QAM	1	24	12.15	12.16	12.18	
5	256QAM	12	0	12.20	12.21	12.24	13
5	256QAM	12	7	12.17	12.23	12.07	
5	256QAM	12	13	12.32	12.27	12.13	
5	256QAM	25	0	12.08	12.16	12.16	



<LTE Band 42_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	18.45	18.74	18.65	
20	QPSK	1	49	18.35	18.72	18.59	19
20	QPSK	1	99	18.34	18.70	18.61	
20	QPSK	50	0	17.79	18.15	17.97	
20	QPSK	50	24	17.77	18.13	17.94	19
20	QPSK	50	50	17.66	18.04	17.95	
20	QPSK	100	0	17.76	18.12	18.03	
20	16QAM	1	0	17.69	18.05	17.88	19
20	16QAM	1	49	17.73	18.04	17.92	
20	16QAM	1	99	17.71	18.09	17.93	
20	16QAM	50	0	17.78	18.14	17.97	19
20	16QAM	50	24	17.79	18.18	17.99	
20	16QAM	50	50	17.71	18.07	17.90	
20	16QAM	100	0	17.78	18.11	17.92	19
20	64QAM	1	0	17.54	17.89	17.79	
20	64QAM	1	49	17.58	17.90	17.81	
20	64QAM	1	99	17.59	17.88	17.78	19
20	64QAM	50	0	17.77	18.13	17.99	
20	64QAM	50	24	17.73	18.09	17.99	
20	64QAM	50	50	17.77	18.07	17.93	19
20	64QAM	100	0	17.82	18.15	17.98	
20	256QAM	1	0	17.74	18.13	17.94	
20	256QAM	1	49	17.85	18.22	18.12	19
20	256QAM	1	99	17.75	18.06	17.92	
20	256QAM	50	0	17.53	17.87	17.78	
20	256QAM	50	24	17.53	17.92	17.75	19
20	256QAM	50	50	17.47	17.81	17.71	
20	256QAM	100	0	17.50	17.79	17.64	
Channel				43165	43340	43515	
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	18.72	18.40	18.64	
15	QPSK	1	37	18.70	18.30	18.55	19
15	QPSK	1	74	18.52	18.32	18.53	
15	QPSK	36	0	17.95	17.71	17.94	
15	QPSK	36	20	18.00	17.70	18.00	19
15	QPSK	36	39	17.96	17.68	17.87	
15	QPSK	75	0	17.97	17.68	17.95	
15	16QAM	1	0	17.87	17.62	17.96	19
15	16QAM	1	37	17.94	17.72	17.87	
15	16QAM	1	74	17.99	17.63	17.85	
15	16QAM	36	0	18.04	17.78	17.93	19
15	16QAM	36	20	18.06	17.87	18.01	
15	16QAM	36	39	18.06	17.59	17.96	
15	16QAM	75	0	17.98	17.76	17.94	19
15	64QAM	1	0	17.80	17.50	17.62	
15	64QAM	1	37	17.80	17.54	17.67	
15	64QAM	1	74	17.84	17.53	17.67	19
15	64QAM	36	0	17.99	17.78	18.03	
15	64QAM	36	20	17.97	17.70	17.91	
15	64QAM	36	39	17.95	17.68	17.95	19
15	64QAM	75	0	18.02	17.74	17.96	
15	256QAM	1	0	18.00	17.76	17.97	
15	256QAM	1	37	18.07	17.81	18.02	19
15	256QAM	1	74	17.88	17.60	17.83	
15	256QAM	36	0	17.73	17.47	17.69	
15	256QAM	36	20	17.82	17.61	17.73	19
15	256QAM	36	39	17.65	17.45	17.70	
15	256QAM	75	0	17.69	17.34	17.63	



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Report No. : FA3N0842

Channel				43140	43340	43540	Tune-up limit
Frequency (MHz)				3555	3575	3595	(dBm)
10	QPSK	1	0	18.65	18.36	18.64	19
10	QPSK	1	25	18.63	18.29	18.48	
10	QPSK	1	49	18.57	18.34	18.47	
10	QPSK	25	0	18.01	17.82	17.91	19
10	QPSK	25	12	18.10	17.70	17.91	
10	QPSK	25	25	17.91	17.60	17.87	
10	QPSK	50	0	18.09	17.71	17.88	19
10	16QAM	1	0	17.95	17.59	17.84	
10	16QAM	1	25	17.87	17.69	17.91	
10	16QAM	1	49	17.92	17.71	17.87	19
10	16QAM	25	0	18.06	17.84	17.99	
10	16QAM	25	12	18.06	17.76	17.91	
10	16QAM	25	25	17.96	17.75	17.90	19
10	16QAM	50	0	18.09	17.63	17.88	
10	64QAM	1	0	17.78	17.55	17.69	
10	64QAM	1	25	17.82	17.58	17.70	19
10	64QAM	1	49	17.78	17.54	17.68	
10	64QAM	25	0	18.06	17.74	17.89	
10	64QAM	25	12	17.99	17.69	17.98	19
10	64QAM	25	25	17.98	17.73	17.93	
10	64QAM	50	0	18.08	17.72	17.98	
10	256QAM	1	0	18.00	17.79	17.92	19
10	256QAM	1	25	18.13	17.80	18.03	
10	256QAM	1	49	17.96	17.62	17.90	
10	256QAM	25	0	17.80	17.47	17.66	19
10	256QAM	25	12	17.79	17.59	17.71	
10	256QAM	25	25	17.64	17.47	17.62	
10	256QAM	50	0	17.78	17.44	17.63	
Channel				43115	43340	43565	Tune-up limit
Frequency (MHz)				3552.5	3575	3597.5	(dBm)
5	QPSK	1	0	18.70	18.40	18.63	19
5	QPSK	1	12	18.65	18.30	18.57	
5	QPSK	1	24	18.66	18.27	18.51	
5	QPSK	12	0	18.02	17.65	17.91	19
5	QPSK	12	7	18.07	17.71	18.00	
5	QPSK	12	13	17.98	17.72	17.80	
5	QPSK	25	0	17.98	17.69	18.03	19
5	16QAM	1	0	17.97	17.71	17.85	
5	16QAM	1	12	18.04	17.66	17.95	
5	16QAM	1	24	17.97	17.75	17.84	19
5	16QAM	12	0	18.06	17.78	17.94	
5	16QAM	12	7	18.14	17.85	18.00	
5	16QAM	12	13	17.99	17.60	17.90	19
5	16QAM	25	0	18.00	17.74	17.87	
5	64QAM	1	0	17.74	17.50	17.73	
5	64QAM	1	12	17.77	17.54	17.73	19
5	64QAM	1	24	17.79	17.42	17.69	
5	64QAM	12	0	18.03	17.75	18.01	
5	64QAM	12	7	18.01	17.68	17.88	19
5	64QAM	12	13	17.91	17.68	17.81	
5	64QAM	25	0	18.08	17.74	17.94	
5	256QAM	1	0	18.05	17.70	17.95	19
5	256QAM	1	12	18.19	17.86	18.00	
5	256QAM	1	24	17.91	17.67	17.89	
5	256QAM	12	0	17.84	17.44	17.73	19
5	256QAM	12	7	17.75	17.47	17.65	
5	256QAM	12	13	17.70	17.41	17.57	
5	256QAM	25	0	17.70	17.36	17.62	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 42_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	23.87	23.94	23.95	
20	QPSK	1	49	23.69	23.66	23.83	24
20	QPSK	1	99	23.55	23.62	23.68	
20	QPSK	50	0	22.75	22.90	22.94	
20	QPSK	50	24	22.69	22.75	22.74	23
20	QPSK	50	50	22.65	22.79	22.80	
20	QPSK	100	0	22.66	22.76	22.67	
20	16QAM	1	0	22.68	22.84	22.90	23
20	16QAM	1	49	22.44	22.84	22.93	
20	16QAM	1	99	22.76	22.80	22.47	
20	16QAM	50	0	21.93	21.78	21.88	22
20	16QAM	50	24	21.72	21.75	21.91	
20	16QAM	50	50	21.74	21.69	21.84	
20	16QAM	100	0	21.80	21.72	21.83	22
20	64QAM	1	0	21.69	21.60	21.66	
20	64QAM	1	49	21.31	21.36	21.28	
20	64QAM	1	99	21.55	21.59	21.42	21
20	64QAM	50	0	20.78	20.96	20.83	
20	64QAM	50	24	20.84	20.69	20.82	
20	64QAM	50	50	20.75	20.82	20.74	20
20	64QAM	100	0	20.81	20.65	20.78	
20	256QAM	1	0	18.55	18.93	18.86	
20	256QAM	1	49	18.74	18.72	18.71	20
20	256QAM	1	99	18.87	18.97	18.96	
20	256QAM	50	0	19.02	19.01	18.97	
20	256QAM	50	24	18.80	18.78	18.82	20
20	256QAM	50	50	18.90	18.84	18.85	
20	256QAM	100	0	18.87	18.87	18.70	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.77	23.75	23.78	
15	QPSK	1	37	23.76	23.59	23.54	24
15	QPSK	1	74	23.56	23.57	23.52	
15	QPSK	36	0	22.81	22.93	22.75	
15	QPSK	36	20	22.70	22.64	22.54	23
15	QPSK	36	39	22.74	22.74	22.64	
15	QPSK	75	0	22.65	22.75	22.56	
15	16QAM	1	0	22.70	22.71	22.49	23
15	16QAM	1	37	22.86	22.70	22.40	
15	16QAM	1	74	22.48	22.77	22.70	
15	16QAM	36	0	21.81	21.68	21.85	22
15	16QAM	36	20	21.83	21.70	21.66	
15	16QAM	36	39	21.76	21.69	21.74	
15	16QAM	75	0	21.71	21.66	21.79	22
15	64QAM	1	0	21.61	21.52	21.57	
15	64QAM	1	37	21.26	21.22	21.24	
15	64QAM	1	74	21.29	21.55	21.50	21
15	64QAM	36	0	20.64	20.87	20.62	
15	64QAM	36	20	20.79	20.57	20.74	
15	64QAM	36	39	20.62	20.69	20.74	20
15	64QAM	75	0	20.60	20.55	20.72	
15	256QAM	1	0	18.86	18.76	18.42	
15	256QAM	1	37	18.51	18.55	18.74	20
15	256QAM	1	74	18.89	18.83	18.86	
15	256QAM	36	0	18.83	18.82	18.92	
15	256QAM	36	20	18.70	18.68	18.69	20
15	256QAM	36	39	18.81	18.78	18.90	
15	256QAM	75	0	18.50	18.76	18.83	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	23.90	23.84	23.72	24
10	QPSK	1	25	23.83	23.48	23.59	
10	QPSK	1	49	23.54	23.53	23.42	
10	QPSK	25	0	22.70	22.90	22.59	23
10	QPSK	25	12	22.73	22.72	22.64	
10	QPSK	25	25	22.79	22.69	22.65	
10	QPSK	50	0	22.59	22.66	22.52	23
10	16QAM	1	0	22.80	22.72	22.61	
10	16QAM	1	25	22.78	22.77	22.57	
10	16QAM	1	49	22.31	22.60	22.60	22
10	16QAM	25	0	21.81	21.69	21.92	
10	16QAM	25	12	21.89	21.63	21.52	
10	16QAM	25	25	21.80	21.49	21.68	22
10	16QAM	50	0	21.80	21.64	21.67	
10	64QAM	1	0	21.50	21.46	21.56	
10	64QAM	1	25	21.27	21.20	21.27	22
10	64QAM	1	49	21.27	21.48	21.42	
10	64QAM	25	0	20.73	20.77	20.68	
10	64QAM	25	12	20.76	20.58	20.82	21
10	64QAM	25	25	20.74	20.64	20.70	
10	64QAM	50	0	20.71	20.56	20.67	
10	256QAM	1	0	18.81	18.85	18.44	20
10	256QAM	1	25	18.60	18.60	18.57	
10	256QAM	1	49	18.89	18.90	18.70	
10	256QAM	25	0	18.88	19.01	19.00	20
10	256QAM	25	12	18.76	18.64	18.62	
10	256QAM	25	25	18.79	18.82	18.71	
10	256QAM	50	0	18.63	18.85	18.84	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	23.76	23.90	23.75	24
5	QPSK	1	12	23.75	23.64	23.54	
5	QPSK	1	24	23.56	23.46	23.55	
5	QPSK	12	0	22.81	22.93	22.59	23
5	QPSK	12	7	22.68	22.66	22.60	
5	QPSK	12	13	22.73	22.77	22.46	
5	QPSK	25	0	22.54	22.62	22.49	23
5	16QAM	1	0	22.81	22.70	22.53	
5	16QAM	1	12	22.90	22.83	22.55	
5	16QAM	1	24	22.47	22.60	22.57	22
5	16QAM	12	0	21.81	21.67	21.76	
5	16QAM	12	7	21.79	21.56	21.54	
5	16QAM	12	13	21.65	21.68	21.71	22
5	16QAM	25	0	21.79	21.70	21.68	
5	64QAM	1	0	21.62	21.49	21.50	
5	64QAM	1	12	21.17	21.24	21.13	22
5	64QAM	1	24	21.31	21.55	21.52	
5	64QAM	12	0	20.69	20.92	20.70	
5	64QAM	12	7	20.71	20.69	20.77	21
5	64QAM	12	13	20.56	20.65	20.75	
5	64QAM	25	0	20.73	20.61	20.65	
5	256QAM	1	0	18.86	18.84	18.45	20
5	256QAM	1	12	18.54	18.59	18.67	
5	256QAM	1	24	18.95	18.84	18.82	
5	256QAM	12	0	18.87	18.96	18.92	20
5	256QAM	12	7	18.72	18.58	18.68	
5	256QAM	12	13	18.77	18.69	18.77	
5	256QAM	25	0	18.65	18.87	18.85	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 42_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	23.25	23.28	23.14	
20	QPSK	1	49	23.16	23.13	23.01	24
20	QPSK	1	99	23.07	23.17	22.99	
20	QPSK	50	0	22.50	22.53	22.51	
20	QPSK	50	24	22.35	22.42	22.48	23
20	QPSK	50	50	22.20	22.43	22.41	
20	QPSK	100	0	22.40	22.50	22.50	
20	16QAM	1	0	22.20	22.28	22.13	23
20	16QAM	1	49	22.16	22.25	22.08	
20	16QAM	1	99	22.28	22.34	22.38	
20	16QAM	50	0	21.43	21.51	21.38	22
20	16QAM	50	24	21.32	21.48	21.33	
20	16QAM	50	50	21.31	21.37	21.27	
20	16QAM	100	0	21.23	21.48	21.30	22
20	64QAM	1	0	21.75	21.69	21.68	
20	64QAM	1	49	21.67	21.70	21.75	
20	64QAM	1	99	21.66	21.77	21.69	21
20	64QAM	50	0	20.25	20.43	20.41	
20	64QAM	50	24	20.39	20.41	20.44	
20	64QAM	50	50	20.34	20.21	20.18	19
20	64QAM	100	0	20.29	20.52	20.43	
20	256QAM	1	0	17.94	18.03	17.99	
20	256QAM	1	49	17.95	18.03	17.87	19
20	256QAM	1	99	18.01	17.91	17.93	
20	256QAM	50	0	18.36	18.38	18.27	
20	256QAM	50	24	18.55	18.43	18.51	19
20	256QAM	50	50	18.29	18.38	18.38	
20	256QAM	100	0	18.44	18.43	18.43	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	23.18	23.20	23.07	
15	QPSK	1	37	22.99	23.11	22.83	24
15	QPSK	1	74	23.04	23.06	22.82	
15	QPSK	36	0	22.35	22.42	22.33	23
15	QPSK	36	20	22.29	22.23	22.41	
15	QPSK	36	39	22.02	22.34	22.28	
15	QPSK	75	0	22.38	22.31	22.43	23
15	16QAM	1	0	22.08	22.18	21.94	
15	16QAM	1	37	21.96	22.17	21.93	
15	16QAM	1	74	22.08	22.16	22.28	22
15	16QAM	36	0	21.37	21.37	21.21	
15	16QAM	36	20	21.30	21.32	21.21	
15	16QAM	36	39	21.17	21.29	21.23	22
15	16QAM	75	0	21.04	21.45	21.30	
15	64QAM	1	0	21.72	21.57	21.56	
15	64QAM	1	37	21.63	21.55	21.72	21
15	64QAM	1	74	21.61	21.59	21.51	
15	64QAM	36	0	20.24	20.41	20.27	
15	64QAM	36	20	20.24	20.30	20.43	19
15	64QAM	36	39	20.24	20.16	19.99	
15	64QAM	75	0	20.16	20.46	20.37	
15	256QAM	1	0	17.79	17.92	17.94	19
15	256QAM	1	37	17.80	17.83	17.82	
15	256QAM	1	74	17.89	17.85	17.89	
15	256QAM	36	0	18.35	18.32	18.24	19
15	256QAM	36	20	18.50	18.29	18.48	
15	256QAM	36	39	18.11	18.21	18.38	
15	256QAM	75	0	18.33	18.42	18.28	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	23.12	23.12	23.14	24
10	QPSK	1	25	23.13	23.02	22.82	
10	QPSK	1	49	23.06	23.11	22.86	
10	QPSK	25	0	22.33	22.40	22.34	23
10	QPSK	25	12	22.21	22.34	22.42	
10	QPSK	25	25	22.00	22.38	22.41	
10	QPSK	50	0	22.23	22.44	22.40	23
10	16QAM	1	0	22.19	22.15	21.93	
10	16QAM	1	25	21.99	22.09	21.90	
10	16QAM	1	49	22.25	22.22	22.23	22
10	16QAM	25	0	21.33	21.50	21.38	
10	16QAM	25	12	21.28	21.40	21.28	
10	16QAM	25	25	21.25	21.37	21.07	22
10	16QAM	50	0	21.08	21.28	21.19	
10	64QAM	1	0	21.70	21.55	21.55	
10	64QAM	1	25	21.61	21.57	21.70	22
10	64QAM	1	49	21.49	21.70	21.54	
10	64QAM	25	0	20.12	20.43	20.32	
10	64QAM	25	12	20.35	20.38	20.32	21
10	64QAM	25	25	20.30	20.07	20.07	
10	64QAM	50	0	20.13	20.36	20.23	
10	256QAM	1	0	17.93	18.02	17.88	19
10	256QAM	1	25	17.87	17.96	17.87	
10	256QAM	1	49	18.00	17.78	17.85	
10	256QAM	25	0	18.27	18.19	18.07	19
10	256QAM	25	12	18.52	18.28	18.37	
10	256QAM	25	25	18.16	18.31	18.26	
10	256QAM	50	0	18.36	18.27	18.42	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	23.21	23.13	23.08	24
5	QPSK	1	12	23.00	23.05	22.87	
5	QPSK	1	24	22.95	22.99	22.86	
5	QPSK	12	0	22.47	22.47	22.46	23
5	QPSK	12	7	22.29	22.33	22.43	
5	QPSK	12	13	22.16	22.27	22.36	
5	QPSK	25	0	22.31	22.45	22.47	23
5	16QAM	1	0	22.11	22.10	22.08	
5	16QAM	1	12	22.11	22.11	21.92	
5	16QAM	1	24	22.23	22.16	22.27	22
5	16QAM	12	0	21.38	21.38	21.19	
5	16QAM	12	7	21.18	21.29	21.30	
5	16QAM	12	13	21.28	21.34	21.13	22
5	16QAM	25	0	21.15	21.30	21.16	
5	64QAM	1	0	21.59	21.59	21.54	
5	64QAM	1	12	21.59	21.62	21.63	22
5	64QAM	1	24	21.55	21.75	21.69	
5	64QAM	12	0	20.13	20.26	20.30	
5	64QAM	12	7	20.36	20.23	20.31	21
5	64QAM	12	13	20.28	20.14	20.18	
5	64QAM	25	0	20.27	20.46	20.42	
5	256QAM	1	0	17.93	17.87	17.80	19
5	256QAM	1	12	17.91	17.87	17.85	
5	256QAM	1	24	17.96	17.90	17.77	
5	256QAM	12	0	18.32	18.28	18.19	19
5	256QAM	12	7	18.46	18.30	18.43	
5	256QAM	12	13	18.21	18.27	18.24	
5	256QAM	25	0	18.30	18.33	18.43	



<LTE Band 42_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	12.38	12.59	12.41	
20	QPSK	1	49	12.28	12.43	12.36	13
20	QPSK	1	99	12.34	12.39	12.36	
20	QPSK	50	0	12.47	12.50	12.30	
20	QPSK	50	24	12.39	12.49	12.24	13
20	QPSK	50	50	12.43	12.49	12.22	
20	QPSK	100	0	12.27	12.42	12.41	
20	16QAM	1	0	12.38	12.55	12.31	13
20	16QAM	1	49	12.26	12.58	12.25	
20	16QAM	1	99	12.36	12.42	12.36	
20	16QAM	50	0	12.27	12.40	12.36	13
20	16QAM	50	24	12.44	12.51	12.35	
20	16QAM	50	50	12.41	12.49	12.23	
20	16QAM	100	0	12.25	12.40	12.28	13
20	64QAM	1	0	12.44	12.58	12.32	
20	64QAM	1	49	12.26	12.40	12.39	
20	64QAM	1	99	12.31	12.52	12.24	13
20	64QAM	50	0	12.43	12.58	12.24	
20	64QAM	50	24	12.41	12.52	12.25	
20	64QAM	50	50	12.39	12.51	12.33	13
20	64QAM	100	0	12.28	12.44	12.26	
20	256QAM	1	0	12.45	12.41	12.38	
20	256QAM	1	49	12.26	12.51	12.29	13
20	256QAM	1	99	12.43	12.50	12.37	
20	256QAM	50	0	12.42	12.46	12.26	
20	256QAM	50	24	12.43	12.45	12.25	13
20	256QAM	50	50	12.42	12.51	12.37	
20	256QAM	100	0	12.27	12.45	12.25	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	12.27	12.51	12.31	
15	QPSK	1	37	12.12	12.40	12.16	13
15	QPSK	1	74	12.21	12.27	12.28	
15	QPSK	36	0	12.26	12.27	12.20	
15	QPSK	36	20	12.33	12.34	12.21	13
15	QPSK	36	39	12.35	12.43	12.22	
15	QPSK	75	0	12.25	12.27	12.27	
15	16QAM	1	0	12.22	12.47	12.13	13
15	16QAM	1	37	12.21	12.56	12.05	
15	16QAM	1	74	12.17	12.36	12.30	
15	16QAM	36	0	12.09	12.26	12.30	13
15	16QAM	36	20	12.29	12.51	12.31	
15	16QAM	36	39	12.31	12.39	12.10	
15	16QAM	75	0	12.17	12.38	12.08	13
15	64QAM	1	0	12.38	12.46	12.17	
15	64QAM	1	37	12.07	12.30	12.27	
15	64QAM	1	74	12.23	12.32	12.12	13
15	64QAM	36	0	12.28	12.56	12.18	
15	64QAM	36	20	12.38	12.45	12.12	
15	64QAM	36	39	12.30	12.41	12.23	13
15	64QAM	75	0	12.15	12.29	12.10	
15	256QAM	1	0	12.41	12.37	12.26	
15	256QAM	1	37	12.15	12.33	12.23	13
15	256QAM	1	74	12.42	12.47	12.33	
15	256QAM	36	0	12.31	12.42	12.10	
15	256QAM	36	20	12.36	12.28	12.19	13
15	256QAM	36	39	12.22	12.45	12.24	
15	256QAM	75	0	12.09	12.34	12.05	



FCC SAR TEST REPORT

Report No. : FA3N0842

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	12.22	12.55	12.38	13
10	QPSK	1	25	12.14	12.25	12.26	
10	QPSK	1	49	12.36	12.23	12.30	
10	QPSK	25	0	12.24	12.44	12.12	13
10	QPSK	25	12	12.24	12.46	12.17	
10	QPSK	25	25	12.38	12.39	12.09	
10	QPSK	50	0	12.24	12.42	12.28	13
10	16QAM	1	0	12.35	12.48	12.15	
10	16QAM	1	25	12.22	12.40	12.16	
10	16QAM	1	49	12.23	12.33	12.22	13
10	16QAM	25	0	12.17	12.28	12.23	
10	16QAM	25	12	12.29	12.42	12.20	
10	16QAM	25	25	12.34	12.29	12.14	13
10	16QAM	50	0	12.09	12.32	12.20	
10	64QAM	1	0	12.34	12.57	12.17	
10	64QAM	1	25	12.11	12.28	12.37	13
10	64QAM	1	49	12.23	12.46	12.13	
10	64QAM	25	0	12.41	12.50	12.17	
10	64QAM	25	12	12.39	12.51	12.05	13
10	64QAM	25	25	12.35	12.31	12.16	
10	64QAM	50	0	12.12	12.36	12.26	
10	256QAM	1	0	12.45	12.34	12.33	13
10	256QAM	1	25	12.24	12.42	12.19	
10	256QAM	1	49	12.36	12.32	12.27	
10	256QAM	25	0	12.27	12.43	12.26	13
10	256QAM	25	12	12.24	12.25	12.18	
10	256QAM	25	25	12.39	12.51	12.27	
10	256QAM	50	0	12.20	12.31	12.10	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	12.09	12.48	12.35	13
5	QPSK	1	12	12.23	12.27	12.19	
5	QPSK	1	24	12.27	12.39	12.34	
5	QPSK	12	0	12.33	12.37	12.23	13
5	QPSK	12	7	12.36	12.42	12.24	
5	QPSK	12	13	12.33	12.48	12.02	
5	QPSK	25	0	12.08	12.26	12.41	13
5	16QAM	1	0	12.20	12.38	12.31	
5	16QAM	1	12	12.15	12.47	12.14	
5	16QAM	1	24	12.30	12.37	12.24	13
5	16QAM	12	0	12.17	12.29	12.25	
5	16QAM	12	7	12.26	12.51	12.29	
5	16QAM	12	13	12.35	12.34	12.20	13
5	16QAM	25	0	12.15	12.24	12.27	
5	64QAM	1	0	12.24	12.47	12.15	
5	64QAM	1	12	12.09	12.34	12.32	13
5	64QAM	1	24	12.31	12.36	12.14	
5	64QAM	12	0	12.23	12.47	12.14	
5	64QAM	12	7	12.37	12.45	12.05	13
5	64QAM	12	13	12.22	12.44	12.13	
5	64QAM	25	0	12.26	12.25	12.18	
5	256QAM	1	0	12.33	12.21	12.37	13
5	256QAM	1	12	12.06	12.36	12.17	
5	256QAM	1	24	12.27	12.41	12.31	
5	256QAM	12	0	12.41	12.32	12.20	13
5	256QAM	12	7	12.31	12.25	12.24	
5	256QAM	12	13	12.26	12.32	12.25	
5	256QAM	25	0	12.10	12.45	12.24	



<LTE Band 42_Ant 2_Sensor ON_Laptop Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				42190	42590	42990	
Frequency (MHz)				3460	3500	3540	
20	QPSK	1	0	18.60	18.67	18.66	
20	QPSK	1	49	18.54	18.58	18.64	19
20	QPSK	1	99	18.46	18.62	18.55	
20	QPSK	50	0	18.22	18.25	18.24	
20	QPSK	50	24	18.19	18.22	18.20	19
20	QPSK	50	50	18.19	18.20	18.22	
20	QPSK	100	0	18.25	18.32	18.24	
20	16QAM	1	0	18.19	18.27	18.19	19
20	16QAM	1	49	18.17	18.23	18.17	
20	16QAM	1	99	18.15	18.27	18.31	
20	16QAM	50	0	18.22	18.27	18.36	19
20	16QAM	50	24	18.26	18.40	18.40	
20	16QAM	50	50	18.13	18.29	18.28	
20	16QAM	100	0	18.26	18.27	18.28	19
20	64QAM	1	0	17.71	17.78	17.72	
20	64QAM	1	49	17.76	17.76	17.80	
20	64QAM	1	99	17.65	17.71	17.70	19
20	64QAM	50	0	17.94	17.96	17.97	
20	64QAM	50	24	17.95	17.94	17.99	
20	64QAM	50	50	17.85	17.98	17.98	19
20	64QAM	100	0	18.01	18.04	17.98	
20	256QAM	1	0	17.92	17.97	18.04	
20	256QAM	1	49	18.08	18.09	18.13	19
20	256QAM	1	99	17.82	17.91	17.98	
20	256QAM	50	0	17.67	17.80	17.69	
20	256QAM	50	24	17.69	17.84	17.82	19
20	256QAM	50	50	17.67	17.65	17.72	
20	256QAM	100	0	17.62	17.66	17.62	
Channel				42165	42590	43015	Tune-up limit (dBm)
Frequency (MHz)				3457.5	3500	3542.5	
15	QPSK	1	0	18.57	18.58	18.65	
15	QPSK	1	37	18.51	18.52	18.46	19
15	QPSK	1	74	18.36	18.62	18.55	
15	QPSK	36	0	17.85	17.96	17.89	
15	QPSK	36	20	17.93	17.94	17.96	19
15	QPSK	36	39	17.84	17.83	17.81	
15	QPSK	75	0	17.85	17.88	17.93	
15	16QAM	1	0	17.80	17.81	17.92	19
15	16QAM	1	37	17.87	17.88	17.82	
15	16QAM	1	74	17.87	17.93	17.95	
15	16QAM	36	0	17.92	17.97	17.91	19
15	16QAM	36	20	17.93	18.06	18.03	
15	16QAM	36	39	17.90	17.84	17.87	
15	16QAM	75	0	17.91	17.92	18.01	19
15	64QAM	1	0	17.69	17.80	17.65	
15	64QAM	1	37	17.57	17.74	17.71	
15	64QAM	1	74	17.56	17.67	17.72	19
15	64QAM	36	0	17.81	17.94	17.93	
15	64QAM	36	20	17.87	17.92	17.94	
15	64QAM	36	39	17.86	17.90	17.91	19
15	64QAM	75	0	17.85	18.08	18.03	
15	256QAM	1	0	17.97	17.93	17.96	
15	256QAM	1	37	17.98	18.06	17.98	19
15	256QAM	1	74	17.85	17.89	17.93	
15	256QAM	36	0	17.62	17.76	17.76	
15	256QAM	36	20	17.64	17.78	17.71	19
15	256QAM	36	39	17.58	17.62	17.64	
15	256QAM	75	0	17.53	17.58	17.57	



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Report No. : FA3N0842

Channel				42140	42590	43040	Tune-up limit (dBm)
Frequency (MHz)				3455	3500	3545	
10	QPSK	1	0	18.59	18.62	18.60	19
10	QPSK	1	25	18.48	18.57	18.52	
10	QPSK	1	49	18.52	18.57	18.51	
10	QPSK	25	0	17.90	17.88	17.94	19
10	QPSK	25	12	17.86	17.96	17.93	
10	QPSK	25	25	17.80	17.89	17.92	
10	QPSK	50	0	17.84	17.90	17.95	19
10	16QAM	1	0	17.76	17.88	17.80	
10	16QAM	1	25	17.78	17.94	17.89	
10	16QAM	1	49	17.86	17.84	17.90	19
10	16QAM	25	0	17.88	17.98	17.91	
10	16QAM	25	12	17.94	17.94	18.02	
10	16QAM	25	25	17.75	17.82	17.89	19
10	16QAM	50	0	17.79	17.94	18.01	
10	64QAM	1	0	17.68	17.69	17.70	
10	64QAM	1	25	17.59	17.70	17.79	19
10	64QAM	1	49	17.67	17.73	17.73	
10	64QAM	25	0	17.89	18.05	17.93	
10	64QAM	25	12	17.80	17.94	17.91	19
10	64QAM	25	25	17.83	17.92	17.91	
10	64QAM	50	0	17.91	17.96	18.00	
10	256QAM	1	0	17.93	17.90	17.88	19
10	256QAM	1	25	17.94	17.98	18.12	
10	256QAM	1	49	17.78	17.82	17.96	
10	256QAM	25	0	17.59	17.70	17.72	19
10	256QAM	25	12	17.72	17.68	17.67	
10	256QAM	25	25	17.50	17.66	17.60	
10	256QAM	50	0	17.62	17.64	17.57	
Channel				42115	42590	43065	Tune-up limit (dBm)
Frequency (MHz)				3452.5	3500	3547.5	
5	QPSK	1	0	18.52	18.64	18.60	19
5	QPSK	1	12	18.41	18.54	18.58	
5	QPSK	1	24	18.46	18.57	18.48	
5	QPSK	12	0	17.80	17.97	17.85	19
5	QPSK	12	7	17.99	17.98	17.97	
5	QPSK	12	13	17.73	17.83	17.87	
5	QPSK	25	0	17.84	17.96	17.92	19
5	16QAM	1	0	17.80	17.80	17.84	
5	16QAM	1	12	17.78	17.85	17.83	
5	16QAM	1	24	17.84	17.96	17.88	19
5	16QAM	12	0	17.85	18.01	17.94	
5	16QAM	12	7	17.96	18.06	18.06	
5	16QAM	12	13	17.83	17.98	17.86	19
5	16QAM	25	0	17.91	17.98	17.87	
5	64QAM	1	0	17.63	17.74	17.66	
5	64QAM	1	12	17.73	17.76	17.72	19
5	64QAM	1	24	17.62	17.71	17.67	
5	64QAM	12	0	17.83	17.98	18.03	
5	64QAM	12	7	17.82	17.92	17.98	19
5	64QAM	12	13	17.85	17.90	17.90	
5	64QAM	25	0	17.91	17.96	17.93	
5	256QAM	1	0	17.83	18.03	17.95	19
5	256QAM	1	12	18.00	18.04	18.05	
5	256QAM	1	24	17.82	17.87	17.89	
5	256QAM	12	0	17.54	17.66	17.76	19
5	256QAM	12	7	17.77	17.79	17.81	
5	256QAM	12	13	17.59	17.64	17.66	
5	256QAM	25	0	17.55	17.54	17.62	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 43_Ant 0_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43690	44090	44490	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	21.61	21.63	21.61	
20	QPSK	1	49	21.14	21.20	21.18	22
20	QPSK	1	99	21.21	21.27	21.17	
20	QPSK	50	0	20.16	20.30	20.14	
20	QPSK	50	24	19.88	19.90	19.78	21
20	QPSK	50	50	20.22	20.29	20.17	
20	QPSK	100	0	20.06	20.08	19.98	
20	16QAM	1	0	20.07	20.16	20.07	21
20	16QAM	1	49	20.28	20.32	20.20	
20	16QAM	1	99	19.85	19.97	19.86	
20	16QAM	50	0	18.99	19.10	18.99	20
20	16QAM	50	24	19.09	19.21	19.09	
20	16QAM	50	50	19.03	19.15	19.10	
20	16QAM	100	0	19.20	19.23	19.14	20
20	64QAM	1	0	18.80	18.83	18.73	
20	64QAM	1	49	19.09	19.19	19.16	
20	64QAM	1	99	18.99	19.10	18.99	19
20	64QAM	50	0	18.16	18.22	18.19	
20	64QAM	50	24	17.81	17.84	17.74	
20	64QAM	50	50	18.11	18.17	18.12	17
20	64QAM	100	0	17.90	17.98	17.91	
20	256QAM	1	0	16.08	16.12	16.08	
20	256QAM	1	49	16.35	16.41	16.32	17
20	256QAM	1	99	16.40	16.43	16.40	
20	256QAM	50	0	16.11	16.14	16.07	
20	256QAM	50	24	16.41	16.43	16.32	17
20	256QAM	50	50	16.21	16.31	16.19	
20	256QAM	100	0	16.17	16.28	16.19	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	21.59	21.58	21.52	
15	QPSK	1	37	21.08	21.10	21.08	22
15	QPSK	1	74	21.20	21.15	21.14	
15	QPSK	36	0	20.09	20.02	20.06	21
15	QPSK	36	20	19.85	19.79	19.83	
15	QPSK	36	39	20.17	20.27	20.19	
15	QPSK	75	0	19.94	20.00	20.01	21
15	16QAM	1	0	20.05	20.05	20.07	
15	16QAM	1	37	20.23	20.19	20.24	
15	16QAM	1	74	19.86	19.81	19.84	20
15	16QAM	36	0	19.06	19.03	19.07	
15	16QAM	36	20	19.13	19.05	19.15	
15	16QAM	36	39	19.00	19.01	18.94	20
15	16QAM	75	0	19.11	19.21	19.10	
15	64QAM	1	0	18.72	18.81	18.66	
15	64QAM	1	37	19.07	19.16	19.06	19
15	64QAM	1	74	18.97	18.96	18.94	
15	64QAM	36	0	18.08	18.14	18.09	
15	64QAM	36	20	17.74	17.71	17.68	17
15	64QAM	36	39	18.05	18.06	18.02	
15	64QAM	75	0	17.84	17.87	17.82	
15	256QAM	1	0	15.96	15.97	16.01	17
15	256QAM	1	37	16.38	16.30	16.22	
15	256QAM	1	74	16.30	16.37	16.32	
15	256QAM	36	0	16.11	16.03	16.04	17
15	256QAM	36	20	16.32	16.34	16.34	
15	256QAM	36	39	16.20	16.25	16.24	



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Report No. : FA3N0842

15	256QAM	75	0	16.23	16.15	16.26	Tune-up limit (dBm)
Channel				43640	44090	44540	
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	21.55	21.53	21.52	22
10	QPSK	1	25	21.08	21.15	21.10	
10	QPSK	1	49	21.09	21.14	21.12	
10	QPSK	25	0	20.09	20.04	20.10	21
10	QPSK	25	12	19.80	19.83	19.74	
10	QPSK	25	25	20.14	20.17	20.18	
10	QPSK	50	0	19.94	19.99	19.93	
10	16QAM	1	0	19.99	19.98	19.98	21
10	16QAM	1	25	20.18	20.26	20.18	
10	16QAM	1	49	19.79	19.87	19.86	
10	16QAM	25	0	19.04	18.95	18.99	20
10	16QAM	25	12	19.05	19.10	19.15	
10	16QAM	25	25	18.95	19.08	18.96	
10	16QAM	50	0	19.10	19.14	19.19	
10	64QAM	1	0	18.74	18.76	18.68	20
10	64QAM	1	25	19.07	19.03	19.03	
10	64QAM	1	49	19.02	18.98	18.88	
10	64QAM	25	0	18.07	18.11	18.04	19
10	64QAM	25	12	17.80	17.76	17.70	
10	64QAM	25	25	17.95	17.99	18.06	
10	64QAM	50	0	17.82	17.92	17.87	
10	256QAM	1	0	15.99	16.08	15.96	17
10	256QAM	1	25	16.32	16.30	16.37	
10	256QAM	1	49	16.27	16.30	16.37	
10	256QAM	25	0	15.95	16.10	16.01	17
10	256QAM	25	12	16.35	16.32	16.32	
10	256QAM	25	25	16.27	16.14	16.18	
10	256QAM	50	0	16.16	16.16	16.11	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	21.51	21.59	21.58	22
5	QPSK	1	12	21.09	21.19	21.08	
5	QPSK	1	24	21.16	21.20	21.19	
5	QPSK	12	0	20.11	20.12	20.10	21
5	QPSK	12	7	19.75	19.83	19.85	
5	QPSK	12	13	20.22	20.14	20.18	
5	QPSK	25	0	20.04	19.96	19.96	
5	16QAM	1	0	20.09	19.99	20.07	21
5	16QAM	1	12	20.20	20.20	20.19	
5	16QAM	1	24	19.89	19.89	19.85	
5	16QAM	12	0	19.00	18.99	18.95	20
5	16QAM	12	7	19.06	19.17	19.11	
5	16QAM	12	13	18.97	19.11	19.07	
5	16QAM	25	0	19.08	19.15	19.18	
5	64QAM	1	0	18.62	18.72	18.63	20
5	64QAM	1	12	19.09	19.09	19.14	
5	64QAM	1	24	18.95	19.01	18.90	
5	64QAM	12	0	18.20	18.13	18.08	
5	64QAM	12	7	17.74	17.74	17.69	19
5	64QAM	12	13	18.12	18.12	18.10	
5	64QAM	25	0	17.90	17.88	17.91	
5	256QAM	1	0	15.96	16.02	16.05	
5	256QAM	1	12	16.24	16.31	16.20	17
5	256QAM	1	24	16.32	16.28	16.32	
5	256QAM	12	0	16.08	16.00	16.09	
5	256QAM	12	7	16.34	16.32	16.38	17
5	256QAM	12	13	16.17	16.14	16.15	
5	256QAM	25	0	16.16	16.21	16.19	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 43_Ant 2_Sensor OFF_Laptop Mode/Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43690	44090	44490	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	21.45	21.52	21.50	
20	QPSK	1	49	21.05	21.15	21.22	22
20	QPSK	1	99	21.09	21.21	21.22	
20	QPSK	50	0	21.21	21.44	21.42	
20	QPSK	50	24	21.38	21.36	21.34	22
20	QPSK	50	50	21.35	21.39	21.36	
20	QPSK	100	0	21.29	21.22	21.36	
20	16QAM	1	0	21.20	21.12	21.16	22
20	16QAM	1	49	21.12	21.16	21.20	
20	16QAM	1	99	21.19	21.04	21.11	
20	16QAM	50	0	21.01	20.99	21.12	22
20	16QAM	50	24	21.03	20.90	20.99	
20	16QAM	50	50	21.01	21.06	21.14	
20	16QAM	100	0	20.90	20.87	20.99	22
20	64QAM	1	0	21.05	20.97	21.03	
20	64QAM	1	49	21.14	21.16	21.06	
20	64QAM	1	99	21.06	21.09	21.02	21
20	64QAM	50	0	20.00	19.91	20.06	
20	64QAM	50	24	19.87	19.92	20.11	
20	64QAM	50	50	19.90	19.97	19.99	19
20	64QAM	100	0	20.02	19.97	19.92	
20	256QAM	1	0	17.49	17.69	17.58	
20	256QAM	1	49	17.52	17.59	17.60	19
20	256QAM	1	99	17.56	17.68	17.69	
20	256QAM	50	0	17.95	17.97	18.05	
20	256QAM	50	24	18.03	17.93	18.07	19
20	256QAM	50	50	17.85	17.88	17.95	
20	256QAM	100	0	18.00	18.09	18.04	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	21.33	21.47	21.47	
15	QPSK	1	37	21.02	21.01	21.18	22
15	QPSK	1	74	21.08	21.01	21.08	
15	QPSK	36	0	21.17	21.17	21.42	22
15	QPSK	36	20	21.22	21.10	21.25	
15	QPSK	36	39	21.22	21.28	21.39	
15	QPSK	75	0	21.13	21.10	21.20	22
15	16QAM	1	0	21.14	20.99	21.00	
15	16QAM	1	37	20.99	21.13	21.11	
15	16QAM	1	74	21.07	20.98	21.07	22
15	16QAM	36	0	20.97	20.79	21.03	
15	16QAM	36	20	20.90	20.75	20.94	
15	16QAM	36	39	21.00	20.98	20.99	22
15	16QAM	75	0	20.75	20.80	20.97	
15	64QAM	1	0	21.03	20.97	21.02	
15	64QAM	1	37	21.02	21.02	21.05	22
15	64QAM	1	74	20.88	21.06	20.85	
15	64QAM	36	0	19.81	19.75	19.98	
15	64QAM	36	20	19.82	19.76	20.10	21
15	64QAM	36	39	19.80	19.88	19.99	
15	64QAM	75	0	20.02	19.85	19.81	
15	256QAM	1	0	17.43	17.58	17.45	19
15	256QAM	1	37	17.41	17.55	17.59	
15	256QAM	1	74	17.49	17.67	17.69	
15	256QAM	36	0	17.90	17.88	17.97	19
15	256QAM	36	20	17.96	17.92	18.04	
15	256QAM	36	39	17.79	17.86	17.76	



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Report No. : FA3N0842

15	256QAM	75	0	17.83	18.08	17.96	Tune-up limit (dBm)
Channel				43640	44090	44540	
Frequency (MHz)				3605	3650	3695	
10	QPSK	1	0	21.37	21.50	21.36	22
10	QPSK	1	25	20.95	21.02	21.16	
10	QPSK	1	49	20.96	21.12	21.09	
10	QPSK	25	0	21.21	21.18	21.28	22
10	QPSK	25	12	21.36	21.15	21.19	
10	QPSK	25	25	21.31	21.18	21.38	
10	QPSK	50	0	21.22	21.18	21.28	
10	16QAM	1	0	21.18	21.05	21.08	22
10	16QAM	1	25	20.99	20.98	21.16	
10	16QAM	1	49	21.09	20.90	20.99	
10	16QAM	25	0	20.81	20.79	21.11	22
10	16QAM	25	12	20.98	20.87	20.83	
10	16QAM	25	25	20.87	20.87	20.96	
10	16QAM	50	0	20.85	20.67	20.81	
10	64QAM	1	0	20.86	20.94	21.01	22
10	64QAM	1	25	21.07	21.12	21.01	
10	64QAM	1	49	20.98	21.05	20.95	
10	64QAM	25	0	19.90	19.85	19.97	21
10	64QAM	25	12	19.73	19.92	19.94	
10	64QAM	25	25	19.82	19.86	19.86	
10	64QAM	50	0	20.02	19.78	19.72	
10	256QAM	1	0	17.48	17.60	17.45	19
10	256QAM	1	25	17.44	17.48	17.54	
10	256QAM	1	49	17.45	17.61	17.53	
10	256QAM	25	0	17.82	17.82	17.85	19
10	256QAM	25	12	17.90	17.89	18.00	
10	256QAM	25	25	17.79	17.88	17.81	
10	256QAM	50	0	18.00	18.06	18.02	
Channel				43615	44090	44565	Tune-up limit (dBm)
Frequency (MHz)				3602.5	3650	3697.5	
5	QPSK	1	0	21.36	21.37	21.30	22
5	QPSK	1	12	20.86	21.12	21.21	
5	QPSK	1	24	21.03	21.17	21.10	
5	QPSK	12	0	21.15	21.22	21.37	22
5	QPSK	12	7	21.32	21.09	21.21	
5	QPSK	12	13	21.25	21.25	21.27	
5	QPSK	25	0	21.11	21.16	21.30	
5	16QAM	1	0	21.09	21.02	21.05	22
5	16QAM	1	12	21.01	21.05	21.04	
5	16QAM	1	24	21.06	20.99	20.91	
5	16QAM	12	0	20.96	20.89	20.92	22
5	16QAM	12	7	20.89	20.71	20.91	
5	16QAM	12	13	20.84	20.93	21.07	
5	16QAM	25	0	20.73	20.75	20.99	
5	64QAM	1	0	20.92	20.77	20.94	22
5	64QAM	1	12	21.03	21.08	20.90	
5	64QAM	1	24	21.00	20.96	21.02	
5	64QAM	12	0	19.97	19.82	19.98	
5	64QAM	12	7	19.80	19.81	20.06	21
5	64QAM	12	13	19.88	19.77	19.88	
5	64QAM	25	0	19.90	19.79	19.72	
5	256QAM	1	0	17.45	17.63	17.47	
5	256QAM	1	12	17.47	17.44	17.60	19
5	256QAM	1	24	17.52	17.66	17.60	
5	256QAM	12	0	17.94	17.87	17.92	
5	256QAM	12	7	18.00	17.85	17.92	
5	256QAM	12	13	17.77	17.69	17.83	19
5	256QAM	25	0	17.90	18.05	17.90	



FCC SAR TEST REPORT

Report No. : FA3N0842

<LTE Band 43_Ant 2_Sensor ON_Tablet Mode>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				43690	44090	44490	
Frequency (MHz)				3610	3650	3690	
20	QPSK	1	0	11.23	11.47	11.18	
20	QPSK	1	49	11.07	11.40	11.10	12
20	QPSK	1	99	11.13	11.36	11.14	
20	QPSK	50	0	11.13	11.31	11.18	
20	QPSK	50	24	11.05	11.30	11.05	12
20	QPSK	50	50	11.11	11.29	11.00	
20	QPSK	100	0	11.04	11.25	11.09	
20	16QAM	1	0	11.10	11.31	11.16	12
20	16QAM	1	49	11.12	11.28	11.01	
20	16QAM	1	99	11.21	11.26	11.00	
20	16QAM	50	0	11.22	11.40	11.15	12
20	16QAM	50	24	11.11	11.37	11.03	
20	16QAM	50	50	11.08	11.32	11.04	
20	16QAM	100	0	11.15	11.40	10.98	12
20	64QAM	1	0	11.20	11.27	11.07	
20	64QAM	1	49	11.13	11.21	11.04	
20	64QAM	1	99	11.08	11.31	11.01	12
20	64QAM	50	0	11.23	11.29	11.12	
20	64QAM	50	24	11.11	11.29	11.01	
20	64QAM	50	50	11.11	11.31	11.09	12
20	64QAM	100	0	11.03	11.31	11.04	
20	256QAM	1	0	11.07	11.32	11.04	
20	256QAM	1	49	11.16	11.27	11.15	12
20	256QAM	1	99	11.17	11.27	10.98	
20	256QAM	50	0	11.10	11.21	11.09	
20	256QAM	50	24	11.23	11.35	11.08	12
20	256QAM	50	50	11.18	11.36	11.15	
20	256QAM	100	0	11.21	11.37	11.00	
Channel				43665	44090	44515	Tune-up limit (dBm)
Frequency (MHz)				3607.5	3650	3692.5	
15	QPSK	1	0	11.07	11.33	11.09	
15	QPSK	1	37	11.12	11.40	11.17	12
15	QPSK	1	74	11.18	11.25	11.10	
15	QPSK	36	0	11.15	11.24	11.03	12
15	QPSK	36	20	11.19	11.39	11.18	
15	QPSK	36	39	11.20	11.21	11.08	
15	QPSK	75	0	11.12	11.32	11.07	12
15	16QAM	1	0	11.03	11.34	11.12	
15	16QAM	1	37	11.05	11.27	11.13	
15	16QAM	1	74	11.15	11.39	11.15	12
15	16QAM	36	0	11.19	11.36	11.08	
15	16QAM	36	20	11.13	11.24	11.11	
15	16QAM	36	39	11.04	11.33	11.15	12
15	16QAM	75	0	11.18	11.25	11.12	
15	64QAM	1	0	11.20	11.37	11.18	
15	64QAM	1	37	11.18	11.25	11.13	12
15	64QAM	1	74	11.05	11.26	11.13	
15	64QAM	36	0	11.07	11.39	11.14	
15	64QAM	36	20	11.16	11.34	11.12	12
15	64QAM	36	39	11.17	11.32	11.12	
15	64QAM	75	0	11.06	11.23	11.10	
15	256QAM	1	0	11.14	11.32	11.11	12
15	256QAM	1	37	11.23	11.36	11.15	
15	256QAM	1	74	11.19	11.29	11.12	
15	256QAM	36	0	11.07	11.27	11.09	12
15	256QAM	36	20	11.16	11.33	11.10	
15	256QAM	36	39	11.08	11.29	11.04	