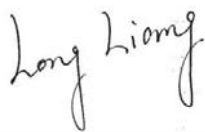


FCC SAR TEST REPORT

FCC ID : 2ABZ2-EE103
Equipment : Smart Phone
Brand Name : ONEPLUS
Model Name : IN2015
Applicant : OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,
Binhe Avenue North, Futian District, Shenzhen
Manufacturer : OnePlus Technology (Shenzhen) Co., Ltd
18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building,
Binhe Avenue North, Futian District, Shenzhen
Standard : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2013

The product was received on Dec. 08, 2019 and testing was started from Dec. 18, 2019 and completed on Mar. 09, 2020. We, SPORTON INTERNATIONAL (ShenZhen) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Reviewed by: Long Liang / Supervisor



Approved by: Johnny Chen / Manager



Sporton International (ShenZhen) Inc.

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China**



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History of this test report

Report No.	Version	Description	Issued Date
FA9N2025-02	01	Initial issue of report	Mar. 19, 2020

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for OnePlus Technology (Shenzhen) Co., Ltd, Smart Phone, IN2015, are as follows.

Equipment Class	Frequency Band	Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)
		Head (Separation 0mm)	Body-worn (Separation 15mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)	
		1g SAR (W/kg)			10g SAR (W/kg)	
Licensed	GSM850	0.49	0.42	0.85		1.59
	GSM1900	0.45	0.35	0.64		
	WCDMA V	0.66	0.40	0.86		
	WCDMA IV	0.67	0.63	0.88	1.90	
	WCDMA II	0.74	0.64	0.84	1.65	
	CDMA2000 BC0	0.68	0.33	0.72		
	CDMA2000 BC10	0.71	0.33	0.73		
	CDMA2000 BC1	0.80	0.78	0.82	2.11	
	LTE Band 71	0.71	0.29	0.66		
	LTE Band 12 / 17	0.61	0.39	0.89		
	LTE Band 13	0.71	0.41	0.76		
	LTE Band 5	0.60	0.38	0.88		
	LTE Band 26	0.71	0.42	0.84	1.43	
	LTE Band 4 / 66	0.74	0.65	0.92	2.13	
	LTE Band 2 / 25	0.90	0.67	0.65	2.59	
	LTE Band 30	0.90	0.75	0.92	1.84	
	LTE Band 7	0.77	0.78	0.92	2.29	
	LTE Band 38 / 41	0.76	0.51	0.92	1.99	
	LTE Band 48	0.91	0.45	0.73	1.99	
	N2	0.72	0.56	0.68		
	N5	0.36	0.23	0.29		
	N41	0.75	0.49	0.72		
	N66	0.66	0.43	0.80		
	N71	0.28	0.26	0.23		
DTS	2.4GHz WLAN	1.02	0.65	1.08	2.24	1.59
NII	5GHz WLAN	0.56	0.97	1.06	2.51	1.59
DSS	Bluetooth	0.28	0.08	0.31		1.54
Date of Testing:		2019/12/18 ~ 2020/3/9				

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

2. Administration Data

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

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

3. Guidance Applied

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

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02



4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification	
Equipment Name	Smart Phone
Brand Name	ONEPLUS
Model Name	IN2015
FCC ID	2ABZ2-EE103
IMEI Code	990015750038119
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 48: 3552.5 MHz ~ 3697.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz 5G NR n2 : 1852.5 MHz ~ 1907.5 MHz 5G NR n5 : 826.5 MHz ~ 846.5 MHz 5G NR n41 : 2506.02 MHz ~ 2679.99MHz 5G NR n66 : 1712.5 MHz ~ 1777.5 MHz 5G NR n71 : 665.5 MHz ~ 695.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Mode	GSM/GPRS/EGPRS AMR / RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink) CDMA2000 : 1xRTT/1xEv-Do(Rel.0)/1xEv-Do(Rev.A) LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR : CP-OFDM / DFT-s-OFDM , PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz : 802.11b/g/n /ax HT20/HT40/ HE20/HE40 WLAN 5GHz : 802.11a/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC:ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
HW Version	15
SW Version	Oxygen OS 10.5.IN21AA
EUT Stage	Production Unit

Remark:

1. This device has WWAN UAT and LAT transmitter antennas which can refer to antenna location chapter.
2. The 2.4GHz/5GHz WLAN can transmit in MIMO antenna mode only and it has no SISO antenna mode.
3. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
4. For WWAN UAT antenna, when the audio is actively routed through the earpiece receiver, and the LCD display is off, and the proximity sensor is triggered which indicating the next-to-head condition then power reduction will be implemented immediately at GSM850/GSM1900, WCDMA B2 / B4 / B5, CDMA BC0/BC1/BC10, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B48 / B66 / B71 and 5G NR n2/n5/n66/n71/n41.
5. For WWAN UAT antenna, hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM850/GSM1900, WCDMA B2 / B4 / B5, CDMA BC0/BC1/BC10, LTE B2 / B5 / B7 / B13 / B25 / B26 / B30 / B38 / B41 / B48 and 5G NR n2/n5/n66/n71/n41.
6. For WWAN LAT antenna, hotspot mode is enabled, power reduction will be activated to limit the maximum power of GSM1900, WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B7 / B25 / B30 / B38 / B41 / B48 / B66 and 5G NR n2/n5/n66/n71/n41.
7. For WWAN UAT antenna, when the p-sensor is detect handheld state, power reduction will be activated to limit the maximum power of LTE B2 / B7 / B25 / B30 / B48 for front/back/bottom sides.
8. For WWAN LAT antenna, when the p-sensor is detect handheld state, power reduction will be activated to limit the maximum power of UMTS B2/B4, CDMA BC1 and LTE B2 / B4 / B7 / B25 / B66 for front/back/bottom sides.
9. For WLAN when transmit simultaneous with WWAN LAT or UAT, power reduction will be activated to limit the different maximum power level for head / hotspot / body-worn / extremity.
10. This is a variant report, the difference is to change the model name and SW version for market segment. The change has no influence on the test results, all the test results are leveraged from original report FA9N2021-02.

4.2 General LTE SAR Test and Reporting Considerations

Summarized necessary items addressed in KDB 941225 D05 v02r05									
FCC ID		2ABZ2-EE103							
Equipment Name		Smart Phone							
Operating Frequency Range of each LTE transmission band		LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 48: 3552.5 MHz ~ 3697.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz							
Channel Bandwidth		LTE Band 02:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 04:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 05:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 07: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 48: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used		QPSK / 16QAM / 64QAM / 256QAM							
LTE Voice / Data requirements		Voice and Data							
LTE MPR permanently built-in by design		Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3							
		Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})					MPR (dB)	
			1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz		20 MHz
		QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
		16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
		16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
		64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
		64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
		256 QAM	≥ 1					≤ 5	
LTE A-MPR		In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)							
Spectrum plots for RB configuration		A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.							
Power reduction applied to satisfy SAR compliance		Yes, when operating in hotspot mode that LTE B13 / B5 / B26 / B66 / B25 / B30 / B7 / B41 / B48 power reduction applied to satisfy SAR compliance.							
LTE Carrier Aggregation Combinations		Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 13.							
LTE Carrier Aggregation Additional Information		1. This device supports LTE Carrier Aggregation (CA) in the uplink for LTE B2/B4/B12/B13/B41/B48/B66 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance. 2. 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		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	20407	824.7	20415	825.5	20425	826.5	20450	829	20450	829	20450	829
M	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5	20525	836.5
H	20643	848.3	20635	847.5	20625	846.5	20600	844	20600	844	20600	844
LTE Band 7												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz		Bandwidth 20 MHz		Bandwidth 20 MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	20775	2502.5	20800	2505	20825	2507.5	20850	2510	20850	2510	20850	2510
M	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535	21100	2535
H	21425	2567.5	21400	2565	21375	2562.5	21350	2560	21350	2560	21350	2560
LTE Band 12												
	Bandwidth 1.4 MHz		Bandwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz		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	23017	699.7	23025	700.5	23035	701.5	23060	704	23060	704	23060	704
M	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5	23095	707.5
H	23173	715.3	23165	714.5	23155	713.5	23130	711	23130	711	23130	711
LTE Band 13												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq.(MHz)		Channel #		Freq.(MHz)	
L	23205		779.5		23230		782		23230		782	
M	23230		782									
H	23255		784.5									
LTE Band 17												
	Bandwidth 5 MHz				Bandwidth 10 MHz				Bandwidth 15 MHz			
	Channel #		Freq.(MHz)		Channel #		Freq. (MHz)		Channel #		Freq. (MHz)	
L	23755		706.5		23780		709		23780		709	
M	23790		710		23790		710		23790		710	
H	23825		713.5		23800		711		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		Bandwidth 20 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	26790	824



FCC SAR TEST REPORT

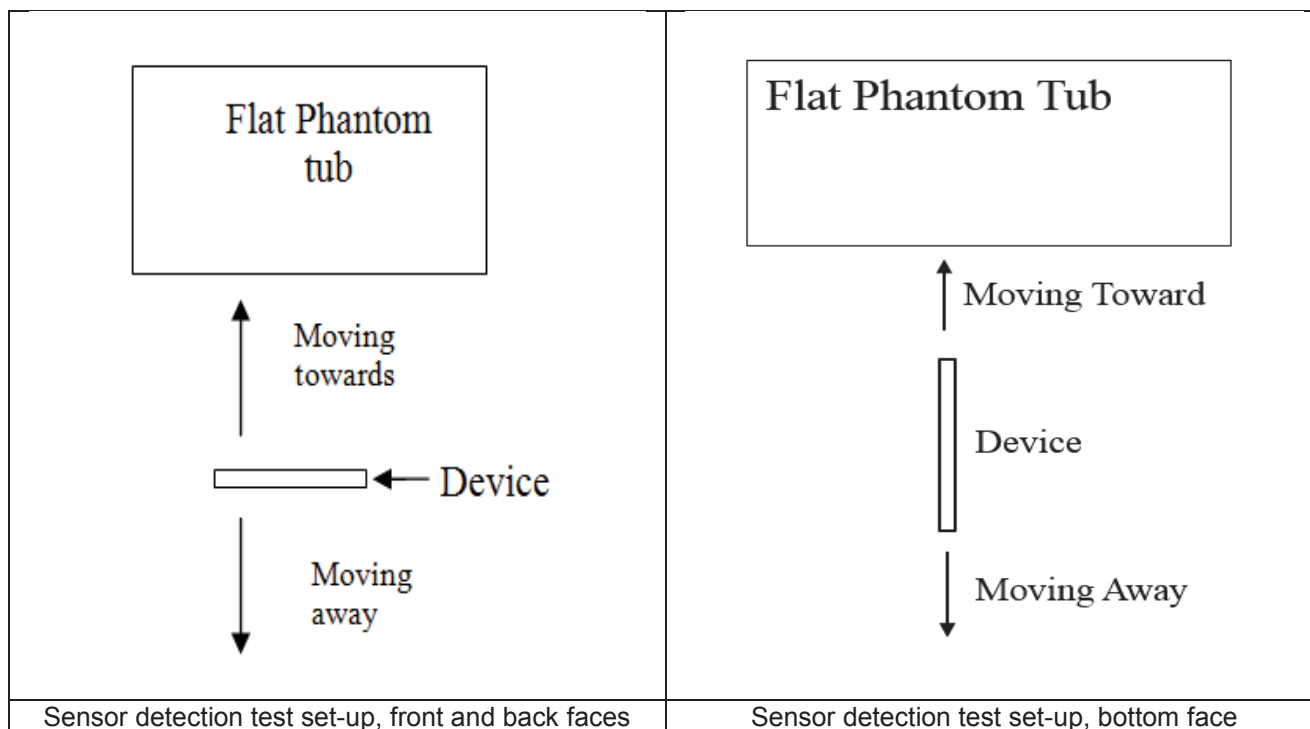
Report No. : FA9N2025-02

M	26865	831.5	26865	831.5	26865	831.5	26865	831.5	26865	831.5		
H	27033	848.3	27025	847.5	27015	846.5	26990	844	26965	841.5		
LTE Band 30												
	Bandwidth 5 MHz				Bandwidth 10 MHz							
	Channel #		Freq.(MHz)		Channel #			Freq.(MHz)				
L	27685		2307.5		27710			2310				
M	27710		2310									
H	27735		2312.5									
LTE Band 38												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	37775	2572.5	37800	2575	37825	2577.5	37850	2580				
M	38000	2595	38000	2595	38000	2595	38000	2595				
H	38225	2617.5	38200	2615	38175	2612.5	38150	2610				
LTE Band 41												
	Bandwidth 5 MHz		Bandwidth 10 MHz		Bandwidth 15 MHz		Bandwidth 20 MHz					
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)				
L	39675	2498.5	39700	2501	39725	2503.5	39750	2506				
L M	40148	2545.8	40160	2547	40173	2548.3	40185	2549.5				
	40620	2593	40620	2593	40620	2593	40620	2593				
H M	41093	2640.3	41080	2639	41068	2637.8	41055	2636.5				
H	41565	2687.5	41540	2685	41515	2682.5	41490	2680				
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				
L M	55810	3607	55815	3607.5	55820	3608	55830	3609				
	56170	3643	56165	3642.5	56160	3642	56150	3641				
H	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				

5. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (2600MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's hand at the front / back / bottom of the device.
3. When the sensor is active, the device will reduce maximum output powers on the WCDMA B2/B4, CDMA BC1 and LTE B2 / B4 / B5 / B7 / B25 / B26 / B30 / B66 / B48 transmitter.



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

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:

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

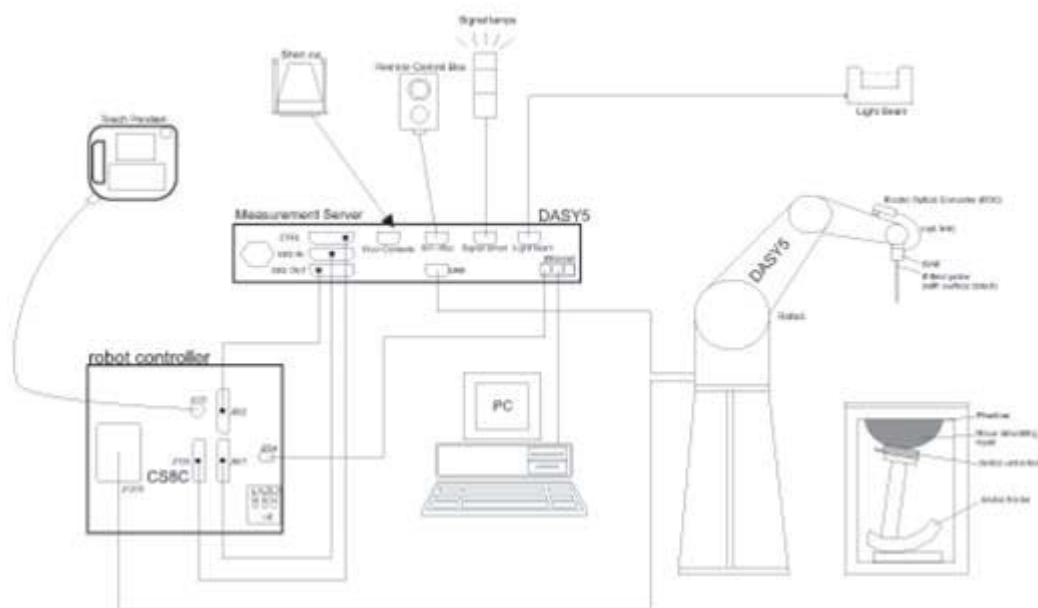
SAR is expressed in units of Watts per kilogram (W/kg)

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

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:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 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 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	10 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	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 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	

8.2 Data Acquisition Electronics (DAE)

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

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

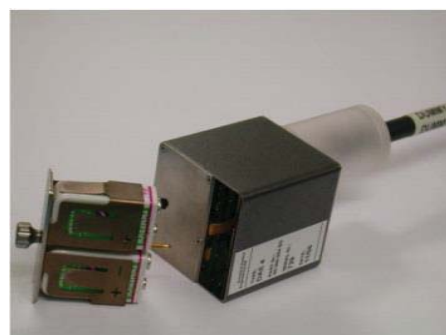


Fig 5.1 Photo of DAE

8.3 Phantom

<SAM Twin Phantom>

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

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

<ELI Phantom>

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

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

8.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

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



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

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

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



Mounting Device for Laptops

9. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

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

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

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

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 DASYS 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	D750V3	1099	Dec. 06, 2018	Nov. 24, 2020
SPEAG	750MHz System Validation Kit	D750V3	1107	Mar. 08, 2019	Mar. 07, 2020
SPEAG	835MHz System Validation Kit	D835V2	4d162	Dec. 05, 2018	Nov. 24, 2020
SPEAG	835MHz System Validation Kit	D835V2	4d167	Nov. 25, 2019	Nov. 24, 2020
SPEAG	1750MHz System Validation Kit	D1750V2	1137	Jul. 30, 2018	Oct. 22, 2020
SPEAG	1750MHz System Validation Kit	D1750V2	1112	Mar. 07, 2019	Mar. 06, 2020
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	Dec. 07, 2018	Nov. 24, 2020
SPEAG	1900MHz System Validation Kit	D1900V2	5d041	Sep. 11, 2018	Sep. 09, 2020
SPEAG	1900MHz System Validation Kit	D1900V2	5d185	Mar. 07, 2019	Mar. 06, 2020
SPEAG	2300MHz System Validation Kit	D2300V2	1056	Nov. 01, 2018	Oct. 31, 2020
SPEAG	2450MHz System Validation Kit	D2450V2	924	Apr. 15, 2019	Apr. 14, 2020
SPEAG	2600MHz System Validation Kit	D2600V2	1070	Dec. 07, 2018	Nov. 24, 2020
SPEAG	2600MHz System Validation Kit	D2600V2	1078	Mar. 06, 2019	Mar. 05, 2020
SPEAG	3500MHz System Validation Kit	D3500V2	1076	Apr. 29, 2019	Apr. 28, 2020
SPEAG	3700MHz System Validation Kit	D3700V2	1037	Apr. 29, 2019	Apr. 28, 2020
SPEAG	5000MHz System Validation Kit	D5GHzV2	1167	Aug. 03, 2018	Oct. 29, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3819	Mar. 01, 2019	Feb. 29, 2020
SPEAG	Dosimetric E-Field Probe	ES3DV3	3184	Sep. 25, 2019	Sep. 24, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	3642	Apr. 29, 2019	Apr. 28, 2020
SPEAG	Dosimetric E-Field Probe	EX3DV4	7346	Apr. 25, 2019	Apr. 24, 2020
SPEAG	Data Acquisition Electronics	DAE4	715	Jan. 23, 2019	Jan. 22, 2020
SPEAG	Data Acquisition Electronics	DAE4	1386	Sep. 09, 2019	Sep. 08, 2020
SPEAG	Data Acquisition Electronics	DAE4	1305	Apr. 30, 2019	Apr. 29, 2020
SPEAG	Data Acquisition Electronics	DAE4	853	Jul. 18, 2019	Jul. 17, 2020
SPEAG	Data Acquisition Electronics	DAE4	854	May. 21, 2019	May. 20, 2020
RCPTWN	Thermometer	HTC-1	TM685-1	Nov. 12, 2019	Nov. 11, 2020
RCPTWN	Thermometer	HTC-1	TM560-2	Nov. 12, 2019	Nov. 11, 2020
Anritsu	Radio Communication Analyzer	MT8821C	6201341950	Oct. 31, 2019	Oct. 30, 2020
Agilent	Wireless Communication Test Set	E5515C	MY50266977	May. 27, 2019	May. 26, 2020
R&S	BT Base Station	CBT32	100522	Mar. 18, 2019	Mar. 17, 2020
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Nov. 20, 2019	Nov. 19, 2020
Agilent	ENA Network Analyzer	E5071C	MY46104758	Sep. 06, 2019	Sep. 05, 2020
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 18, 2019	Sep. 17, 2020
LINE SEIKI	Digital Thermometer	DTM3000-spezial	3169	Sep. 10, 2019	Sep. 09, 2020
Anritsu	Power Meter	ML2495A	1036004	Aug. 08, 2019	Aug. 07, 2020
Anritsu	Power Sensor	MA2411B	1027253	Aug. 08, 2019	Aug. 07, 2020
Anritsu	Power Meter	ML2495A	1419002	May. 29, 2019	May. 28, 2020
Anritsu	Power Sensor	MA2411B	1339124	May. 29, 2019	May. 28, 2020
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 27, 2019	Aug. 26, 2020
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 27, 2019	Jun. 26, 2020
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 16, 2019	Oct. 15, 2020
Mini-Circuits	Power Amplifier	ZVE-8G+	6382	Aug. 12, 2019	Aug. 11, 2020
ATM	Dual Directional Coupler	C122H-10	P610410z-02	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:

- 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.
- Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The justification data of dipole D750V3, SN: 1099, D835V2, SN: 4d162, D1750V2, SN:1137, D1900V2, 5d182, D2300V2, SN: 1056, D2600V2, SN: 1070D, 1750V2, SN: 1137, D1900V2, SN: 5d041, D2300V2, SN: 1056, D5GHzV2, SN: 1167 can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

11. System Verification

11.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.



Fig 10.1Photo of Liquid Height for Head SAR



Fig 10.2 Photo of Liquid Height for Body SAR

11.2 Tissue Verification

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

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (ϵ_r)
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

Simulating Liquid for 5GHz, Manufactured by SPEAG

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

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
750	22.4	0.886	41.534	0.89	41.90	-0.45	-0.87	±5	2019/12/27
750	22.8	0.878	40.673	0.89	41.90	-1.35	-2.93	±5	2020/1/20
835	22.5	0.928	42.730	0.90	41.50	3.11	2.96	±5	2019/12/24
835	22.6	0.913	40.859	0.90	41.50	1.44	-1.54	±5	2020/1/22
1750	22.4	1.394	39.966	1.37	40.10	1.75	-0.33	±5	2019/12/21
1750	22.7	1.378	41.340	1.37	40.10	0.58	3.09	±5	2020/1/27
1900	22.7	1.422	41.138	1.40	40.00	1.57	2.85	±5	2019/12/18
1900	22.7	1.460	39.248	1.40	40.00	4.29	-1.88	±5	2020/1/30
1900	22.5	1.435	40.562	1.40	40.00	2.50	1.40	±5	2020/2/8
2300	22.7	1.670	38.754	1.67	39.50	0.00	-1.89	±5	2019/12/30
2300	22.5	1.678	38.250	1.67	39.50	0.48	-3.16	±5	2020/2/2
2450	22.6	1.857	37.670	1.80	39.20	3.17	-3.90	±5	2020/1/2
2450	22.5	1.807	37.921	1.80	39.20	0.39	-3.26	±5	2020/2/4
2600	22.4	2.056	37.575	1.96	39.00	4.90	-3.65	±5	2020/1/5
2600	22.8	2.055	38.316	1.96	39.00	4.85	-1.75	±5	2020/2/7
3500	22.5	2.909	38.635	2.91	37.90	-0.03	1.94	±5	2020/1/9
3700	22.8	3.054	38.374	3.12	37.70	-2.12	1.79	±5	2020/1/9
5250	22.4	4.638	37.088	4.71	35.95	-1.53	3.17	±5	2020/1/14
5600	22.5	5.048	36.534	5.07	35.50	-0.43	2.91	±5	2020/1/13
5750	22.6	5.220	36.277	5.22	35.35	0.00	2.62	±5	2020/1/15
750	22.6	0.890	41.446	0.89	41.90	0.00	-1.08	±5	2020/2/6
750	22.6	0.887	41.361	0.89	41.90	-0.34	-1.29	±5	2020/2/8
835	22.3	0.929	41.370	0.90	41.50	3.22	-0.31	±5	2020/2/6
835	22.1	0.896	40.819	0.90	41.50	-0.44	-1.64	±5	2020/2/7
1750	22.6	1.353	41.908	1.37	40.10	-1.24	4.51	±5	2020/2/5
1750	22.3	1.355	39.606	1.37	40.10	-1.09	-1.23	±5	2020/2/7
1750	22.2	1.378	40.711	1.37	40.10	0.58	1.52	±5	2020/3/9
1900	22.6	1.405	40.240	1.40	40.00	0.36	0.60	±5	2020/2/5
1900	22.6	1.419	40.406	1.40	40.00	1.36	1.02	±5	2020/2/6
2600	22.2	2.016	38.823	1.96	39.00	2.86	-0.45	±5	2020/2/5
2600	22.9	2.025	38.943	1.96	39.00	3.32	-0.15	±5	2020/2/7
2600	22.1	2.037	39.066	1.96	39.00	3.93	0.17	±5	2020/2/8
1900	22.8	1.426	40.599	1.40	40.00	1.86	1.50	±5	2020/2/15
2600	22.8	1.982	39.038	1.96	39.00	1.12	0.10	±5	2020/2/15

11.3 System Performance Check Results

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

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 (%)
2019/12/27	750	250	D750V3-1099	EX3DV4 - SN3819	DAE4 Sn715	2.15	8.52	8.6	0.94
2020/1/20	750	250	D750V3-1099	EX3DV4 - SN3819	DAE4 Sn715	2.12	8.52	8.48	-0.47
2019/12/24	835	250	D835V2-4d162	EX3DV4 - SN3819	DAE4 Sn715	2.52	9.61	10.08	4.89
2020/1/22	835	250	D835V2-4d162	EX3DV4 - SN3819	DAE4 Sn715	2.49	9.61	9.96	3.64
2019/12/21	1750	250	D1750V2-1137	EX3DV4 - SN3819	DAE4 Sn715	9.03	36.50	36.12	-1.04
2020/1/27	1750	250	D1750V2-1137	EX3DV4 - SN3819	DAE4 Sn1386	9.04	36.50	36.16	-0.93
2019/12/18	1900	250	D1900V2-5d182	EX3DV4 - SN3819	DAE4 Sn715	9.86	39.60	39.44	-0.40
2020/1/30	1900	250	D1900V2-5d182	EX3DV4 - SN3819	DAE4 Sn1386	10.40	39.60	41.6	5.05
2020/2/8	1900	250	D1900V2-5d041	EX3DV4 - SN7346	DAE4 Sn853	9.49	40.20	37.96	-5.57
2019/12/30	2300	250	D2300V2-1056	EX3DV4 - SN3819	DAE4 Sn715	12.20	49.90	48.8	-2.20
2020/2/2	2300	250	D2300V2-1056	EX3DV4 - SN3819	DAE4 Sn1386	12.40	49.90	49.6	-0.60
2020/1/2	2450	250	D2450V2-924	EX3DV4 - SN3819	DAE4 Sn715	13.50	52.10	54	3.65
2020/2/4	2450	250	D2450V2-924	EX3DV4 - SN3819	DAE4 Sn1386	13.70	52.10	54.8	5.18
2020/1/5	2600	250	D2600V2-1070	EX3DV4 - SN3819	DAE4 Sn715	14.80	58.10	59.2	1.89
2020/2/7	2600	250	D2600V2-1070	EX3DV4 - SN3819	DAE4 Sn1386	15.30	58.10	61.2	5.34
2020/1/9	3500	100	D3500V2-1076	EX3DV4 - SN3819	DAE4 Sn715	6.36	67.90	63.6	-6.33
2020/1/9	3700	100	D3700V2-1037	EX3DV4 - SN3819	DAE4 Sn715	6.87	68.50	68.7	0.29
2020/1/14	5250	100	D5GHzV2-1167-5250	EX3DV4 - SN3819	DAE4 Sn715	7.69	77.00	76.9	-0.13
2020/1/13	5600	100	D5GHzV2-1167-5600	EX3DV4 - SN3819	DAE4 Sn715	7.84	80.80	78.4	-2.97
2020/1/15	5750	100	D5GHzV2-1167-5750	EX3DV4 - SN3819	DAE4 Sn715	7.06	76.90	70.6	-8.19
2020/2/6	750	250	D750V3-1107	ES3DV3 - SN3184	DAE4 Sn1305	1.99	8.32	7.96	-4.33
2020/2/8	750	250	D750V3-1107	ES3DV3 - SN3184	DAE4 Sn1305	1.99	8.32	7.96	-4.33
2020/2/6	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE4 Sn1305	2.28	9.55	9.12	-4.50
2020/2/7	835	250	D835V2-4d167	ES3DV3 - SN3184	DAE4 Sn1305	2.20	9.55	8.8	-7.85
2020/2/5	1750	250	D1750V2-1112	ES3DV3 - SN3184	DAE4 Sn1305	8.71	36.70	34.84	-5.07
2020/2/7	1750	250	D1750V2-1112	EX3DV4 - SN7346	DAE4 Sn853	9.03	36.70	36.12	-1.58
2020/3/9	1750	250	D1750V2-1112	EX3DV4 - SN7346	DAE4 Sn853	8.92	36.70	35.68	-2.78
2020/2/5	1900	250	D1900V2-5d185	ES3DV3 - SN3184	DAE4 Sn1305	9.54	39.40	38.16	-3.15
2020/2/6	1900	250	D1900V2-5d041	EX3DV4 - SN7346	DAE4 Sn853	10.60	40.20	42.4	5.47
2020/2/5	2600	250	D2600V2-1078	EX3DV4 - SN3642	DAE4 Sn854	14.80	57.60	59.2	2.78
2020/2/7	2600	250	D2600V2-1078	EX3DV4 - SN3642	DAE4 Sn854	14.60	57.60	58.4	1.39
2020/2/8	2600	250	D2600V2-1078	EX3DV4 - SN3642	DAE4 Sn854	14.70	57.60	58.8	2.08
2020/2/15	1900	250	D1900V2-5d041	ES3DV3 - SN3184	DAE4 Sn1305	10.30	40.20	41.2	2.49
2020/2/15	2600	250	D2600V2-1078	ES3DV3 - SN3184	DAE4 Sn1305	14.20	57.60	56.8	-1.39

Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2019/12/27	750	250	D750V3-1099	EX3DV4 - SN3819	DAE4 Sn715	1.45	5.64	5.8	2.84
2020/1/20	750	250	D750V3-1099	EX3DV4 - SN3819	DAE4 Sn715	1.42	5.64	5.68	0.71
2019/12/24	835	250	D835V2-4d162	EX3DV4 - SN3819	DAE4 Sn715	1.66	6.35	6.64	4.57
2020/1/22	835	250	D835V2-4d162	EX3DV4 - SN3819	DAE4 Sn715	1.64	6.35	6.56	3.31
2019/12/21	1750	250	D1750V2-1137	EX3DV4 - SN3819	DAE4 Sn715	4.86	19.50	19.44	-0.31
2020/1/27	1750	250	D1750V2-1137	EX3DV4 - SN3819	DAE4 Sn1386	4.83	19.50	19.32	-0.92
2019/12/18	1900	250	D1900V2-5d182	EX3DV4 - SN3819	DAE4 Sn715	5.07	20.70	20.28	-2.03
2020/1/30	1900	250	D1900V2-5d182	EX3DV4 - SN3819	DAE4 Sn1386	5.32	20.70	21.28	2.80
2020/2/8	1900	250	D1900V2-5d041	EX3DV4 - SN7346	DAE4 Sn853	4.94	21.20	19.76	-6.79
2019/12/30	2300	250	D2300V2-1056	EX3DV4 - SN3819	DAE4 Sn715	5.75	23.80	23	-3.36
2020/2/2	2300	250	D2300V2-1056	EX3DV4 - SN3819	DAE4 Sn1386	5.83	23.80	23.32	-2.02
2020/1/2	2450	250	D2450V2-924	EX3DV4 - SN3819	DAE4 Sn715	6.09	23.90	24.36	1.92
2020/2/4	2450	250	D2450V2-924	EX3DV4 - SN3819	DAE4 Sn1386	6.18	23.90	24.72	3.43
2020/1/5	2600	250	D2600V2-1070	EX3DV4 - SN3819	DAE4 Sn715	6.41	26.10	25.64	-1.76
2020/2/7	2600	250	D2600V2-1070	EX3DV4 - SN3819	DAE4 Sn1386	6.65	26.10	26.6	1.92
2020/1/9	3500	100	D3500V2-1076	EX3DV4 - SN3819	DAE4 Sn715	2.39	25.30	23.9	-5.53
2020/1/9	3700	100	D3700V2-1037	EX3DV4 - SN3819	DAE4 Sn715	2.50	24.80	25	0.81
2020/1/14	5250	100	D5GHzV2-1167-5250	EX3DV4 - SN3819	DAE4 Sn715	2.22	22.00	22.2	0.91
2020/1/13	5600	100	D5GHzV2-1167-5600	EX3DV4 - SN3819	DAE4 Sn715	2.25	23.20	22.5	-3.02
2020/1/15	5750	100	D5GHzV2-1167-5750	EX3DV4 - SN3819	DAE4 Sn715	2.04	21.60	20.4	-5.56

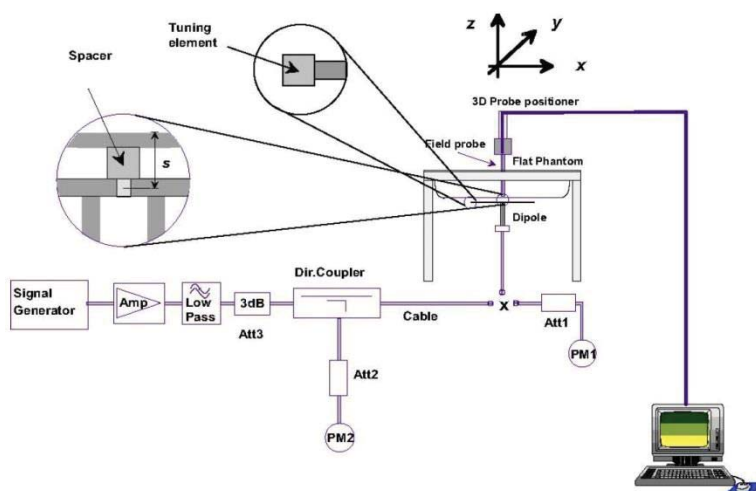

Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

12. RF Exposure Positions

12.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

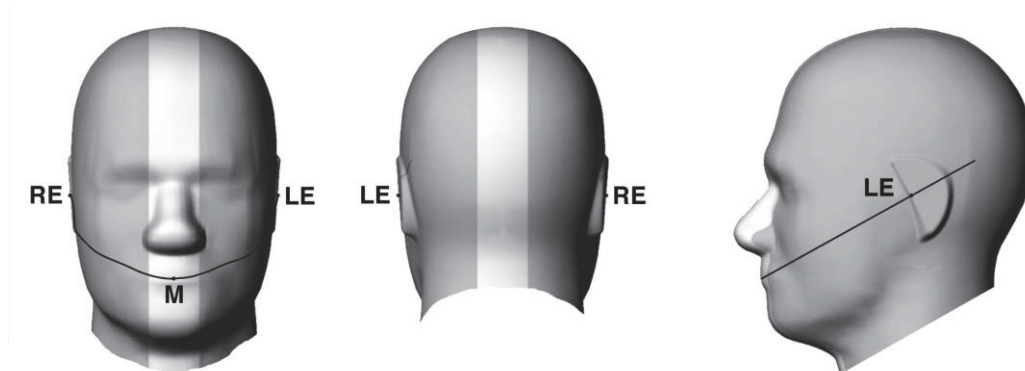


Fig 9.1.1 Front, back, and side views of SAM twin phantom

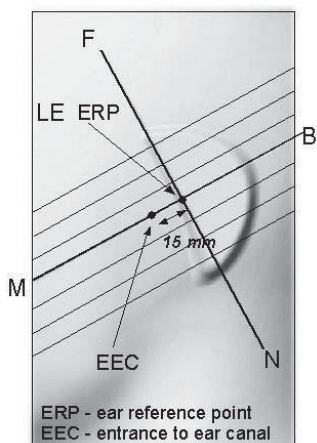


Fig 9.1.2 Close-up side view of phantom showing the ear region.

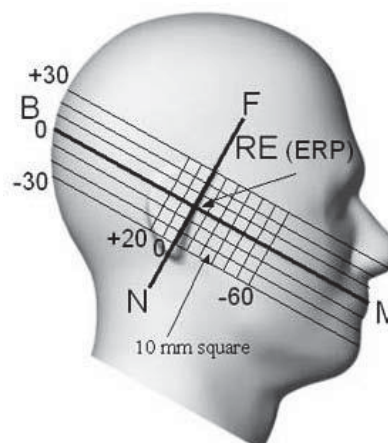


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

12.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

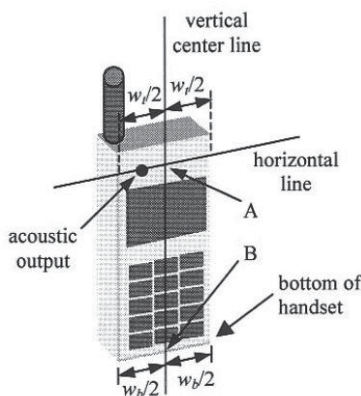


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

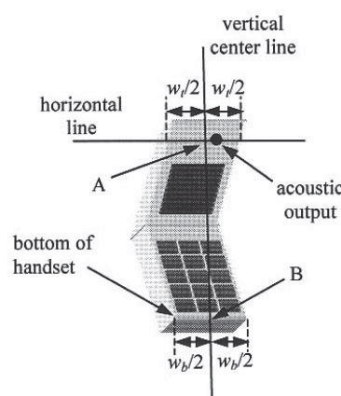


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

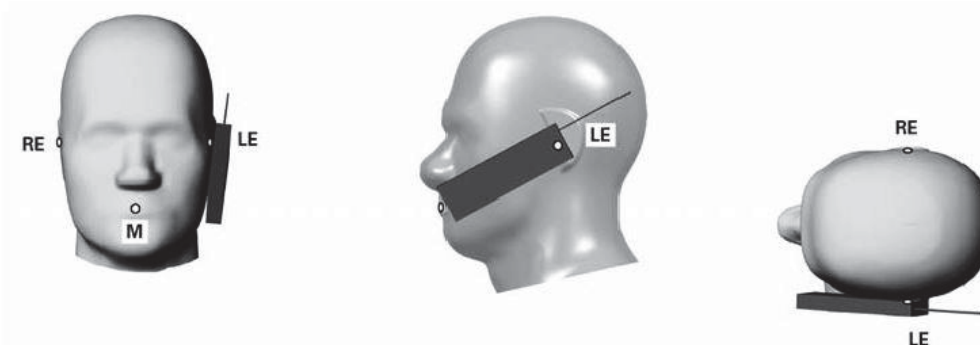


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

12.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15° .
3. Rotate the handset around the horizontal line by 15° .
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

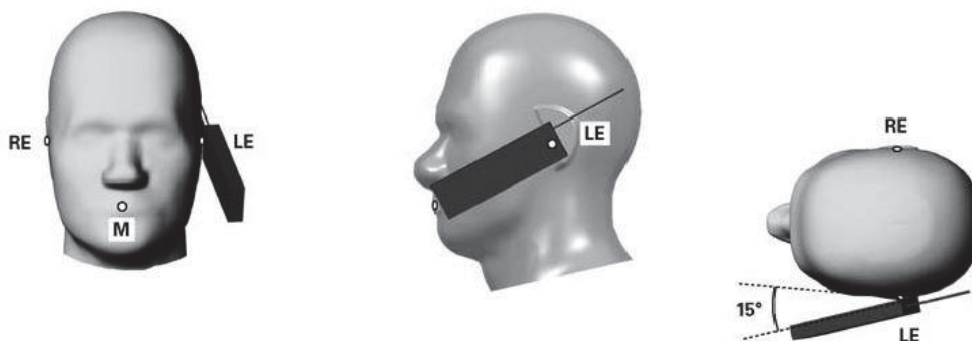


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

12.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

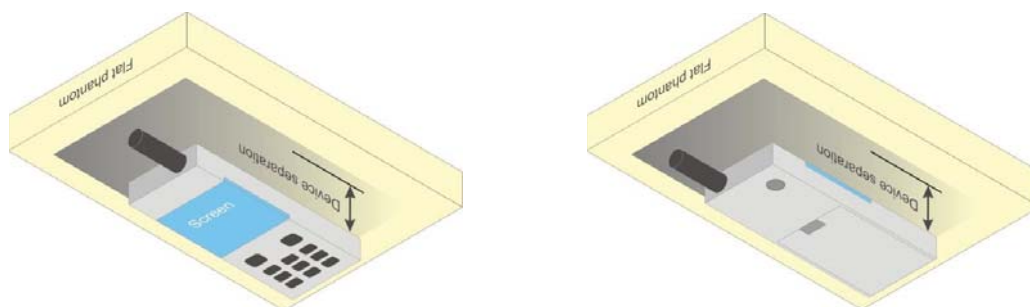


Fig 9.4 Body Worn Position

12.5 Product Specific Exposure

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

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

12.6 Wireless Router

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

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

13. GSM/UMTS/CDMA/LTE Output Power (Unit: dBm)

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (3Tx slots) for GSM850/GSM1900 is considered as the primary mode.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode
4. Power reduction which is triggered by hotspot mode is implemented in GSM1900 band, for hotspot mode SAR testing EUT was set in reduced power mode and GPRS 3Tx slot due to its highest frame-average power.

<Full Power Mode>

<UAT>

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.98	31.97	31.90	32.80	22.98	22.97	22.90	23.80
GPRS 1 Tx slot	31.96	31.94	31.87	32.80	22.96	22.94	22.87	23.80
GPRS 2 Tx slots	30.10	30.17	30.02	31.30	24.10	24.17	24.02	25.30
GPRS 3 Tx slots	28.54	28.44	28.39	29.80	24.28	24.18	24.13	25.54
GPRS 4 Tx slots	26.78	26.99	26.96	28.50	23.78	23.99	23.96	25.50
EDGE 1 Tx slot	25.60	25.66	25.63	26.80	16.60	16.66	16.63	17.80
EDGE 2 Tx slots	24.02	24.07	24.05	24.80	18.02	18.07	18.05	18.80
EDGE 3 Tx slots	23.06	23.16	23.07	23.80	18.80	18.90	18.81	19.54
EDGE 4 Tx slots	22.32	22.43	22.42	23.20	19.32	19.43	19.42	20.20

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.68	27.70	27.80	28.50	18.68	18.70	18.80	19.50
GPRS 1 Tx slot	27.65	27.68	27.77	28.50	18.65	18.68	18.77	19.50
GPRS 2 Tx slots	25.02	25.32	25.13	26.00	19.02	19.32	19.13	20.00
GPRS 3 Tx slots	23.87	24.19	24.02	24.70	19.61	19.93	19.76	20.44
GPRS 4 Tx slots	22.51	22.81	22.57	23.20	19.51	19.81	19.57	20.20
EDGE 1 Tx slot	23.15	23.31	23.21	24.00	14.15	14.31	14.21	15.00
EDGE 2 Tx slots	22.11	22.35	22.18	22.90	16.11	16.35	16.18	16.90
EDGE 3 Tx slots	20.79	21.10	20.81	21.80	16.53	16.84	16.55	17.54
EDGE 4 Tx slots	19.55	19.88	19.73	20.80	16.55	16.88	16.73	17.80

<LAT>

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.92	31.94	31.97	32.80	22.92	22.94	22.97	23.80
GPRS 1 Tx slot	31.90	31.92	31.94	32.80	22.90	22.92	22.94	23.80
GPRS 2 Tx slots	30.35	30.49	30.19	31.30	24.35	24.49	24.19	25.30
GPRS 3 Tx slots	28.68	28.62	28.54	29.80	24.42	24.36	24.28	25.54
GPRS 4 Tx slots	27.04	27.48	27.41	28.50	24.04	24.48	24.41	25.50
EDGE 1 Tx slot	25.88	25.86	25.87	26.80	16.88	16.86	16.87	17.80
EDGE 2 Tx slots	24.32	24.22	24.27	24.80	18.32	18.22	18.27	18.80
EDGE 3 Tx slots	23.46	23.38	23.50	23.80	19.20	19.12	19.24	19.54
EDGE 4 Tx slots	22.79	22.75	22.73	23.20	19.79	19.75	19.73	20.20

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.49	29.52	29.55	30.30	20.49	20.52	20.55	21.30
GPRS 1 Tx slot	29.44	29.50	29.52	30.30	20.44	20.50	20.52	21.30
GPRS 2 Tx slots	26.68	26.93	26.87	27.80	20.68	20.93	20.87	21.80
GPRS 3 Tx slots	25.52	25.72	25.67	26.50	21.26	21.46	21.41	22.24
GPRS 4 Tx slots	24.26	24.42	24.23	25.00	21.26	21.42	21.23	22.00
EDGE 1 Tx slot	24.68	24.85	24.80	25.80	15.68	15.85	15.80	16.80
EDGE 2 Tx slots	23.51	23.71	23.61	24.70	17.51	17.71	17.61	18.70
EDGE 3 Tx slots	22.61	22.80	22.65	23.60	18.35	18.54	18.39	19.34
EDGE 4 Tx slots	21.44	21.65	21.49	22.60	18.44	18.65	18.49	19.60

<Reduced Power Mode for Next-to-Head>
<UAT>

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	27.59	27.86	27.54	28.80	18.59	18.86	18.54	19.80
GPRS 1 Tx slot	27.56	27.84	27.52	28.80	18.56	18.84	18.52	19.80
GPRS 2 Tx slots	25.83	26.13	25.83	27.30	19.83	20.13	19.83	21.30
GPRS 3 Tx slots	24.73	24.43	24.40	25.80	20.47	20.17	20.14	21.54
GPRS 4 Tx slots	23.44	23.83	23.25	24.50	20.44	20.83	20.25	21.50
EDGE 1 Tx slot	21.95	21.79	21.83	22.80	12.95	12.79	12.83	13.80
EDGE 2 Tx slots	20.34	20.16	20.35	20.80	14.34	14.16	14.35	14.80
EDGE 3 Tx slots	19.30	19.32	19.34	19.80	15.04	15.06	15.08	15.54
EDGE 4 Tx slots	18.49	18.61	18.71	19.20	15.49	15.61	15.71	16.20

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	20.14	20.35	20.17	21.00	11.14	11.35	11.17	12.00
GPRS 1 Tx slot	20.12	20.32	20.16	21.00	11.12	11.32	11.16	12.00
GPRS 2 Tx slots	17.70	17.78	17.56	18.50	11.70	11.78	11.56	12.50
GPRS 3 Tx slots	16.48	16.80	16.63	17.20	12.22	12.54	12.37	12.94
GPRS 4 Tx slots	15.15	15.32	15.27	15.70	12.15	12.32	12.27	12.70
EDGE 1 Tx slot	15.88	15.77	15.87	16.50	6.88	6.77	6.87	7.50
EDGE 2 Tx slots	14.41	14.69	14.38	15.40	8.41	8.69	8.38	9.40
EDGE 3 Tx slots	13.20	13.44	13.32	14.30	8.94	9.18	9.06	10.04
EDGE 4 Tx slots	12.31	12.67	12.44	13.30	9.31	9.67	9.44	10.30

<Reduced Power Mode for Hotspot On>
<UAT>

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.75	30.93	30.73	31.80	21.75	21.93	21.73	22.80
GPRS 1 Tx slot	31.12	30.80	30.84	31.80	22.12	21.80	21.84	22.80
GPRS 2 Tx slots	29.31	28.82	28.86	30.30	23.31	22.82	22.86	24.30
GPRS 3 Tx slots	27.71	27.62	27.27	28.80	23.45	23.36	23.01	24.54
GPRS 4 Tx slots	26.20	26.05	25.73	27.50	23.20	23.05	22.73	24.50
EDGE 1 Tx slot	24.56	24.26	24.63	25.80	15.56	15.26	15.63	16.80
EDGE 2 Tx slots	23.36	23.31	23.08	23.80	17.36	17.31	17.08	17.80
EDGE 3 Tx slots	22.13	21.90	21.72	22.80	17.87	17.64	17.46	18.54
EDGE 4 Tx slots	21.68	21.59	21.39	22.20	18.68	18.59	18.39	19.20

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	23.56	23.73	23.60	24.50	14.56	14.73	14.60	15.50
GPRS 1 Tx slot	23.66	23.79	23.68	24.50	14.66	14.79	14.68	15.50
GPRS 2 Tx slots	21.20	21.29	21.10	22.00	15.20	15.29	15.10	16.00
GPRS 3 Tx slots	20.07	20.21	20.00	20.70	15.81	15.95	15.74	16.44
GPRS 4 Tx slots	18.62	18.76	18.60	19.20	15.62	15.76	15.60	16.20
EDGE 1 Tx slot	19.52	19.40	19.21	20.00	10.52	10.40	10.21	11.00
EDGE 2 Tx slots	18.25	18.17	18.11	18.90	12.25	12.17	12.11	12.90
EDGE 3 Tx slots	17.08	17.05	16.59	17.80	12.82	12.79	12.33	13.54
EDGE 4 Tx slots	16.17	15.97	15.77	16.80	13.17	12.97	12.77	13.80

<LAT>

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.42	28.50	28.58	29.30	19.42	19.50	19.58	20.30
GPRS 1 Tx slot	28.39	28.48	28.56	29.30	19.39	19.48	19.56	20.30
GPRS 2 Tx slots	25.62	25.90	25.77	26.80	19.62	19.90	19.77	20.80
GPRS 3 Tx slots	24.74	24.88	24.87	25.50	20.48	20.62	20.61	21.24
GPRS 4 Tx slots	23.07	23.19	23.13	24.00	20.07	20.19	20.13	21.00
EDGE 1 Tx slot	23.97	23.72	23.86	24.80	14.97	14.72	14.86	15.80
EDGE 2 Tx slots	22.75	22.81	22.75	23.70	16.75	16.81	16.75	17.70
EDGE 3 Tx slots	21.68	21.60	21.75	22.60	17.42	17.34	17.49	18.34
EDGE 4 Tx slots	20.60	20.97	20.77	21.60	17.60	17.97	17.77	18.60

<WCDMA Conducted Power>

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

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

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

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (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	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

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

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

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

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

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

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

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

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

C.8.1.12 Fixed Reference Channel Definition H-Set 12

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

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

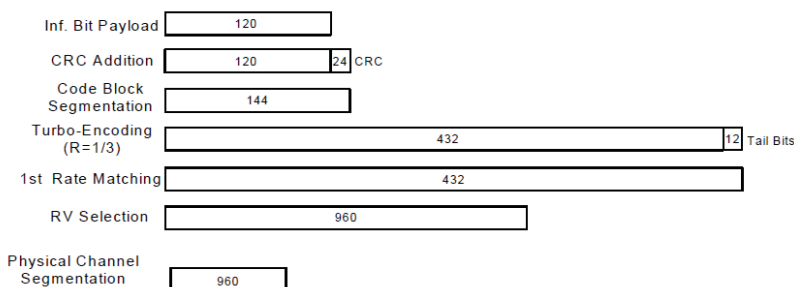


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration

HSPA+ 3GPP release 7 (uplink category 7) 16QAM, 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 = 5.2E:HSPA+:UL with 16QAM
 - ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
 - iii. Set Channel Parms
 - iv. Set Cell Power = -86 dBm
 - v. Set Channel Type = HSPA
 - vi. Set UE Target Power =21 dBm
 - vii. Power Ctrl Mode= All Up Bits
 - viii. Set Manual Uplink DPCH Bc/Bd = Manual
 - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
 - x. Set HSPA Conn DL Channel Levels
 - xi. Set HS-SCCH Configs
 - xii. Set RB Test Mode Setup
 - xiii. Set Common HSUPA Parameters
 - xiv. Set Serving Grant
 - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

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

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

Setup Configuration

<WCDMA Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

<Full Power Mode>
<UAT>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	22.21	22.36	22.23	23.00	21.98	22.06	22.03	23.00	23.94	23.94	23.86	24.80
3GPP Rel 99	RMC 12.2Kbps	22.20	22.37	22.21	23.00	21.97	22.08	22.04	23.00	23.93	23.95	23.85	24.80
3GPP Rel 6	HSDPA Subtest-1	21.38	21.45	21.49	22.00	21.03	21.12	21.07	22.00	22.96	22.93	22.87	23.80
3GPP Rel 6	HSDPA Subtest-2	21.39	21.46	21.53	22.00	21.04	21.10	21.10	22.00	22.97	22.97	22.85	23.80
3GPP Rel 6	HSDPA Subtest-3	20.91	20.98	20.98	21.50	20.56	20.58	20.58	21.50	22.43	22.41	22.38	23.30
3GPP Rel 6	HSDPA Subtest-4	20.89	20.97	20.99	21.50	20.58	20.60	20.56	21.50	22.43	22.45	22.34	23.30
3GPP Rel 8	DC-HSDPA Subtest-1	21.25	21.33	21.36	22.00	20.90	20.98	20.97	22.00	22.85	22.80	22.75	23.80
3GPP Rel 8	DC-HSDPA Subtest-2	21.27	21.35	21.41	22.00	20.92	20.95	20.98	22.00	22.87	22.82	22.72	23.80
3GPP Rel 8	DC-HSDPA Subtest-3	20.75	20.79	20.79	21.50	20.43	20.45	20.47	21.50	22.26	22.25	22.24	23.30
3GPP Rel 8	DC-HSDPA Subtest-4	20.73	20.81	20.84	21.50	20.47	20.47	20.43	21.50	22.27	22.28	22.22	23.30
3GPP Rel 6	HSUPA Subtest-1	21.39	21.48	21.51	22.00	21.09	21.19	21.12	22.00	22.95	22.98	22.86	23.80
3GPP Rel 6	HSUPA Subtest-2	19.42	19.46	19.48	20.00	19.09	19.17	19.12	20.00	20.96	20.98	20.86	21.80
3GPP Rel 6	HSUPA Subtest-3	20.41	20.54	20.49	21.00	20.10	20.18	20.09	21.00	21.91	21.98	21.87	22.80
3GPP Rel 6	HSUPA Subtest-4	19.47	19.49	19.51	20.00	19.11	19.16	19.11	20.00	20.93	20.94	20.85	21.80
3GPP Rel 6	HSUPA Subtest-5	21.40	21.50	21.50	22.00	21.10	21.10	21.10	22.00	22.90	23.00	22.90	23.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.14	19.18	19.21	20.00	18.83	18.86	18.80	20.00	20.65	20.67	20.55	21.80

<LAT>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	24.08	24.27	24.16	24.80	23.92	23.96	23.95	24.80	24.07	24.11	24.09	24.80
3GPP Rel 99	RMC 12.2Kbps	24.10	24.30	24.18	24.80	23.94	23.99	23.97	24.80	24.09	24.12	24.10	24.80
3GPP Rel 6	HSDPA Subtest-1	23.13	23.22	23.21	23.80	22.95	23.00	22.98	23.80	23.11	23.11	23.11	23.80
3GPP Rel 6	HSDPA Subtest-2	23.14	23.27	23.25	23.80	22.95	22.98	22.99	23.80	23.06	23.10	23.14	23.80
3GPP Rel 6	HSDPA Subtest-3	22.66	22.79	22.72	23.30	22.46	22.49	22.55	23.30	22.60	22.64	22.59	23.30
3GPP Rel 6	HSDPA Subtest-4	22.61	22.74	22.76	23.30	22.40	22.49	22.45	23.30	22.60	22.64	22.60	23.30
3GPP Rel 8	DC-HSDPA Subtest-1	23.01	23.10	23.09	23.80	22.83	22.89	22.85	23.80	22.99	23.02	23.00	23.80
3GPP Rel 8	DC-HSDPA Subtest-2	22.98	23.09	23.11	23.80	22.82	22.86	22.87	23.80	22.95	23.00	23.02	23.80
3GPP Rel 8	DC-HSDPA Subtest-3	22.53	22.58	22.55	23.30	22.32	22.35	22.44	23.30	22.49	22.55	22.48	23.30
3GPP Rel 8	DC-HSDPA Subtest-4	22.51	22.61	22.59	23.30	22.27	22.33	22.38	23.30	22.50	22.52	22.48	23.30
3GPP Rel 6	HSUPA Subtest-1	23.13	23.27	23.24	23.80	23.00	23.01	23.02	23.80	23.06	23.09	23.11	23.80
3GPP Rel 6	HSUPA Subtest-2	21.16	21.28	21.26	21.80	20.96	21.05	21.01	21.80	21.07	21.12	21.08	21.80
3GPP Rel 6	HSUPA Subtest-3	22.16	22.30	22.28	22.80	21.96	22.03	22.01	22.80	22.06	22.12	22.05	22.80
3GPP Rel 6	HSUPA Subtest-4	21.10	21.27	21.26	21.80	20.94	21.03	21.02	21.80	21.06	21.12	21.07	21.80
3GPP Rel 6	HSUPA Subtest-5	23.20	23.20	23.20	23.80	23.00	23.10	23.00	23.80	23.10	23.10	23.10	23.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.82	20.94	20.91	21.80	20.59	20.66	20.64	21.80	19.73	19.81	19.76	21.80


<Reduced Power Mode for Next-to-Head >
<UAT>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	13.36	13.44	13.37	14.00	13.18	13.30	13.25	14.00	20.85	20.86	20.78	21.80
3GPP Rel 99	RMC 12.2Kbps	13.38	13.46	13.41	14.00	13.21	13.32	13.28	14.00	20.87	20.89	20.80	21.80
3GPP Rel 6	HSDPA Subtest-1	12.20	12.24	12.24	13.00	12.09	12.23	12.16	13.00	19.97	20.00	19.96	20.80
3GPP Rel 6	HSDPA Subtest-2	12.26	12.05	12.23	13.00	12.08	12.20	12.21	13.00	19.72	19.98	19.93	20.80
3GPP Rel 6	HSDPA Subtest-3	11.41	11.83	11.74	12.50	11.60	11.73	11.72	12.50	19.49	19.48	19.43	20.30
3GPP Rel 6	HSDPA Subtest-4	11.72	11.82	11.70	12.50	11.58	11.74	11.71	12.50	19.46	19.49	19.44	20.30
3GPP Rel 8	DC-HSDPA Subtest-1	12.09	12.17	12.11	13.00	12.25	12.32	12.29	13.00	20.05	20.03	19.99	20.80
3GPP Rel 8	DC-HSDPA Subtest-2	12.07	12.15	12.09	13.00	12.27	12.31	12.30	13.00	20.06	20.01	20.00	20.80
3GPP Rel 8	DC-HSDPA Subtest-3	11.59	11.67	11.62	12.50	11.68	11.75	11.72	12.50	19.51	19.48	19.45	20.30
3GPP Rel 8	DC-HSDPA Subtest-4	11.55	11.68	11.60	12.50	11.65	11.72	11.71	12.50	19.49	19.50	19.48	20.30
3GPP Rel 6	HSUPA Subtest-1	12.05	12.14	12.02	13.00	11.86	11.92	11.89	13.00	20.49	20.51	20.44	20.80
3GPP Rel 6	HSUPA Subtest-2	10.31	10.44	10.35	11.00	10.02	10.13	10.06	11.00	18.00	17.99	17.94	18.80
3GPP Rel 6	HSUPA Subtest-3	11.02	11.11	11.04	12.00	10.65	10.78	10.71	12.00	19.00	18.92	18.95	19.80
3GPP Rel 6	HSUPA Subtest-4	10.29	10.40	10.25	11.00	10.07	10.14	10.11	11.00	18.01	17.99	17.94	18.80
3GPP Rel 6	HSUPA Subtest-5	12.38	12.50	12.46	13.00	12.11	12.19	12.10	13.00	20.00	20.00	20.00	20.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	10.19	10.35	10.21	11.00	10.11	10.15	10.08	11.00	17.85	17.72	17.79	18.80

<Reduced Power Mode for Hotspot On>
<UAT>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	20.73	20.85	20.77	21.50	20.39	20.51	20.48	21.50
3GPP Rel 99	RMC 12.2Kbps	20.74	20.87	20.79	21.50	20.41	20.53	20.50	21.50
3GPP Rel 6	HSDPA Subtest-1	19.63	19.72	19.61	20.50	19.27	19.42	19.36	20.50
3GPP Rel 6	HSDPA Subtest-2	19.58	19.71	19.61	20.50	19.27	19.43	19.38	20.50
3GPP Rel 6	HSDPA Subtest-3	19.13	19.20	19.15	20.00	18.82	18.90	18.91	20.00
3GPP Rel 6	HSDPA Subtest-4	19.09	19.20	19.08	20.00	18.78	18.91	18.90	20.00
3GPP Rel 8	DC-HSDPA Subtest-1	19.74	19.81	19.77	20.50	19.21	19.28	19.30	20.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.75	19.82	19.79	20.50	19.20	19.27	19.31	20.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.23	19.32	19.29	20.00	18.67	18.75	18.78	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.25	19.31	19.27	20.00	18.68	18.74	18.79	20.00
3GPP Rel 6	HSUPA Subtest-1	19.61	19.68	19.60	20.50	19.26	19.45	19.49	20.50
3GPP Rel 6	HSUPA Subtest-2	17.63	17.72	17.69	18.50	17.28	17.45	17.46	18.50
3GPP Rel 6	HSUPA Subtest-3	18.58	18.65	18.54	19.50	18.36	18.44	18.47	19.50
3GPP Rel 6	HSUPA Subtest-4	17.62	17.78	17.68	18.50	17.28	17.42	17.45	18.50
3GPP Rel 6	HSUPA Subtest-5	19.70	19.80	19.60	20.50	19.30	19.40	19.50	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.38	17.43	17.41	18.50	17.15	17.23	17.24	18.50

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Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	19.48	19.58	19.57	20.30	21.00	21.13	21.10	21.80
3GPP Rel 99	RMC 12.2Kbps	19.51	19.62	19.59	20.30	21.01	21.15	21.13	21.80
3GPP Rel 6	HSDPA Subtest-1	18.34	18.46	18.44	19.30	19.89	20.04	20.04	20.80
3GPP Rel 6	HSDPA Subtest-2	18.16	18.44	18.45	19.30	19.92	20.06	20.03	20.80
3GPP Rel 6	HSDPA Subtest-3	17.82	17.95	17.94	18.80	19.39	19.56	19.53	20.30
3GPP Rel 6	HSDPA Subtest-4	17.86	17.99	17.93	18.80	19.40	19.55	19.53	20.30
3GPP Rel 8	DC-HSDPA Subtest-1	18.19	18.31	18.25	19.30	19.81	19.95	19.89	20.80
3GPP Rel 8	DC-HSDPA Subtest-2	18.18	18.32	18.24	19.30	19.82	19.94	19.87	20.80
3GPP Rel 8	DC-HSDPA Subtest-3	17.70	17.77	17.73	18.80	19.35	19.44	19.38	20.30
3GPP Rel 8	DC-HSDPA Subtest-4	17.69	17.77	17.74	18.80	19.34	19.43	19.39	20.30
3GPP Rel 6	HSUPA Subtest-1	18.36	18.53	18.50	19.30	19.98	20.10	20.06	20.80
3GPP Rel 6	HSUPA Subtest-2	16.37	16.50	16.50	17.30	18.00	18.09	18.12	18.80
3GPP Rel 6	HSUPA Subtest-3	17.40	17.53	17.49	18.30	18.99	19.19	19.02	19.80
3GPP Rel 6	HSUPA Subtest-4	16.34	16.49	16.51	17.30	18.39	18.13	18.12	18.80
3GPP Rel 6	HSUPA Subtest-5	18.38	18.48	18.48	19.30	19.60	19.60	20.10	20.80
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.13	16.22	16.20	17.30	18.25	18.31	18.12	18.80

<Reduced Power Mode for Sensor On>
<LAT>

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	18.50	18.65	18.62	19.80	19.04	19.22	19.22	20.30
3GPP Rel 99	RMC 12.2Kbps	18.52	18.68	18.64	19.80	19.06	19.25	19.24	20.30
3GPP Rel 6	HSDPA Subtest-1	17.44	17.58	17.54	18.80	17.87	18.04	18.02	19.30
3GPP Rel 6	HSDPA Subtest-2	17.43	17.55	17.56	18.80	17.89	18.00	18.03	19.30
3GPP Rel 6	HSDPA Subtest-3	16.93	17.09	17.04	18.30	17.40	17.55	17.55	18.80
3GPP Rel 6	HSDPA Subtest-4	16.97	17.03	17.05	18.30	17.36	17.52	17.55	18.80
3GPP Rel 8	DC-HSDPA Subtest-1	17.36	17.56	17.52	18.80	17.78	17.99	17.98	19.30
3GPP Rel 8	DC-HSDPA Subtest-2	17.34	17.51	17.49	18.80	17.84	17.96	17.98	19.30
3GPP Rel 8	DC-HSDPA Subtest-3	16.90	17.02	16.98	18.30	17.32	17.47	17.53	18.80
3GPP Rel 8	DC-HSDPA Subtest-4	16.91	17.00	17.01	18.30	17.29	17.45	17.45	18.80
3GPP Rel 6	HSUPA Subtest-1	17.46	17.61	17.63	18.80	17.90	18.04	18.02	19.30
3GPP Rel 6	HSUPA Subtest-2	15.45	15.57	15.58	16.80	15.88	16.02	16.03	17.30
3GPP Rel 6	HSUPA Subtest-3	16.41	16.58	16.61	17.80	16.90	17.05	17.10	18.30
3GPP Rel 6	HSUPA Subtest-4	15.44	15.60	15.65	16.80	15.89	15.99	16.07	17.30
3GPP Rel 6	HSUPA Subtest-5	17.40	17.60	17.70	18.80	17.90	18.00	18.10	19.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.10	16.20	16.20	16.80	16.97	16.98	16.95	17.30

<CDMA2000 Conducted Power>
General Note:

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6Kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

<Full Power Mode>
<UAT>

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.66	23.68	23.63	24.80	21.48	21.73	21.58	23.00	23.76	23.83	23.75	24.80
RC3 SO55	23.57	23.60	23.54	24.80	21.45	21.70	21.54	23.00	23.74	23.79	23.69	24.80
RC3 SO32 (F+SCH)	23.57	23.59	23.53	24.80	21.44	21.69	21.53	23.00	23.71	23.75	23.67	24.80
RC3 SO32 (+SCH)	23.55	23.55	23.51	24.80	21.40	21.60	21.44	23.00	23.68	23.73	23.65	24.80
RTAP 153.6Kbps	23.50	23.51	23.49	24.80	21.38	21.57	21.42	23.00	23.65	23.72	23.62	24.80
RETAP 4096Bits	23.48	23.50	23.45	24.80	21.35	21.55	21.36	23.00	23.63	23.68	23.60	24.80

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Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.85	23.89	23.84	24.80	23.51	23.80	23.67	24.80	23.91	24.00	23.97	24.80
RC3 SO55	23.84	23.87	23.82	24.80	23.50	23.79	23.66	24.80	23.90	23.99	23.96	24.80
RC3 SO32 (F+SCH)	23.82	23.87	23.82	24.80	23.48	23.76	23.64	24.80	23.88	23.97	23.94	24.80
RC3 SO32 (+SCH)	23.80	23.84	23.80	24.80	23.47	23.75	23.63	24.80	23.85	23.96	23.93	24.80
RTAP 153.6Kbps	23.79	23.81	23.78	24.80	23.45	23.73	23.60	24.80	23.84	23.96	23.93	24.80
RETAP 4096Bits	23.77	23.79	23.77	24.80	23.44	23.70	23.58	24.80	23.82	23.94	23.91	24.80

<Reduced Power Mode for Next-to-Head>
<UAT>

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	20.44	20.49	20.40	21.80	12.50	12.73	12.63	14.00	20.38	20.43	20.37	21.80
RC3 SO55	20.35	20.36	20.35	21.80	12.48	12.72	12.58	14.00	20.35	20.39	20.33	21.80
RC3 SO32 (F+SCH)	20.39	20.37	20.32	21.80	12.42	12.71	12.54	14.00	20.32	20.35	20.30	21.80
RC3 SO32 (+SCH)	20.31	20.32	20.30	21.80	12.40	12.59	12.48	14.00	20.29	20.33	20.28	21.80
RTAP 153.6Kbps	20.26	20.27	20.25	21.80	12.37	12.58	12.43	14.00	20.26	20.32	20.23	21.80
RETAP 4096Bits	20.25	20.32	20.21	21.80	12.35	12.56	12.41	14.00	20.24	20.28	20.21	21.80

<Reduced Power Mode for Hotspot On>
<UAT>

Band	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)
TX Channel	1013	384	777		25	600	1175	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75	
RC1 SO55	22.59	22.68	22.58	23.80	16.80	16.98	16.85	18.00
RC3 SO55	22.54	22.64	22.51	23.80	16.76	16.96	16.82	18.00
RC3 SO32 (F+SCH)	22.52	22.62	22.51	23.80	16.76	16.94	16.81	18.00
RC3 SO32 (+SCH)	22.48	22.57	22.44	23.80	16.67	16.85	16.73	18.00
RTAP 153.6Kbps	22.54	22.63	22.52	23.80	16.78	16.96	16.82	18.00
RETAP 4096Bits	22.56	22.60	22.55	23.80	16.79	16.91	16.84	18.00

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Band	CDMA BC1			Tune-up Limit (dBm)
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	19.96	20.16	20.02	21.30
RC3 SO55	19.95	20.15	20.00	21.30
RC3 SO32 (F+SCH)	19.93	20.13	19.98	21.30
RC3 SO32 (+SCH)	19.92	20.11	19.96	21.30
RTAP 153.6Kbps	19.90	20.11	19.96	21.30
RETAP 4096Bits	19.89	20.10	19.95	21.30

<Reduced Power Mode for Sensor On>
<UAT>

Band	CDMA BC1			Tune-up Limit (dBm)
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	16.54	16.76	16.67	18.00
RC3 SO55	16.52	16.74	16.65	18.00
RC3 SO32 (F+SCH)	16.50	16.73	16.63	18.00
RC3 SO32 (+SCH)	16.47	16.71	16.60	18.00
RTAP 153.6Kbps	16.45	16.69	16.58	18.00
RETAP 4096Bits	16.44	16.68	16.57	18.00

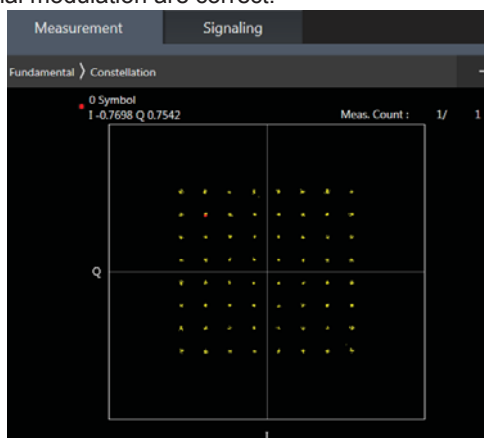
<LAT>

Band	CDMA BC1			Tune-up Limit (dBm)
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	19.69	19.97	19.86	20.80
RC3 SO55	19.66	19.96	19.85	20.80
RC3 SO32 (F+SCH)	19.65	19.94	19.82	20.80
RC3 SO32 (+SCH)	19.64	19.93	19.81	20.80
RTAP 153.6Kbps	19.63	19.89	19.78	20.80
RETAP 4096Bits	19.61	19.87	19.75	20.80

<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM 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 B5/B12/B26/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 2/4/17/38 SAR test was covered by Band 25/66/12/41; 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
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM



UAT Full Power Mode

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	21.05	21.09	21.02	22	0
20	QPSK	1	49	21.03	21.08	20.99		
20	QPSK	1	99	20.98	21.02	20.95		
20	QPSK	50	0	20.02	20.02	19.99	21	1
20	QPSK	50	24	20.08	20.12	20.01		
20	QPSK	50	50	20.10	20.09	20.04		
20	QPSK	100	0	20.02	20.06	20.05	21	1
20	16QAM	1	0	20.26	20.33	20.32		
20	16QAM	1	49	20.17	20.26	20.26		
20	16QAM	1	99	20.13	20.23	20.13	20	2
20	16QAM	50	0	18.87	18.94	18.89		
20	16QAM	50	24	19.02	19.02	18.97		
20	16QAM	50	50	18.98	19.04	19.02	20	2
20	16QAM	100	0	18.95	18.92	18.92		
20	64QAM	1	0	19.08	19.17	19.13		
20	64QAM	1	49	19.03	19.09	19.06	20	2
20	64QAM	1	99	18.97	19.09	19.01		
20	64QAM	50	0	17.79	17.90	17.88		
20	64QAM	50	24	17.93	17.95	17.96	19	3
20	64QAM	50	50	17.90	17.98	17.98		
20	64QAM	100	0	17.89	17.88	17.88		
20	256QAM	1	0	16.00	16.06	16.03	17	2
20	256QAM	1	49	16.32	16.42	16.33		
20	256QAM	1	99	16.14	16.23	16.21		
20	256QAM	50	0	16.30	16.31	16.28	17	3
20	256QAM	50	24	16.35	16.39	16.34		
20	256QAM	50	50	16.41	16.48	16.46		
20	256QAM	100	0	16.25	16.35	16.31	Channel	MPR (dB)
Frequency (MHz)				18675	18900	19125		
				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	20.79	20.93	20.93	22	0
15	QPSK	1	37	20.83	20.92	20.89		
15	QPSK	1	74	20.77	20.89	20.89		
15	QPSK	36	0	19.87	19.91	19.89	21	1
15	QPSK	36	20	20.01	19.97	20.04		
15	QPSK	36	39	20.01	20.04	19.98		
15	QPSK	75	0	19.97	19.92	20.00	21	1
15	16QAM	1	0	20.06	20.27	20.28		
15	16QAM	1	37	20.26	20.25	20.18		
15	16QAM	1	74	20.09	20.20	20.15	20	2
15	16QAM	36	0	18.90	18.95	18.87		
15	16QAM	36	20	19.03	19.01	19.04		
15	16QAM	36	39	18.98	19.05	19.00	20	2
15	16QAM	75	0	18.99	18.95	19.03		
15	64QAM	1	0	18.84	19.08	19.02		
15	64QAM	1	37	19.02	19.14	18.99	20	2
15	64QAM	1	74	18.88	19.03	18.98		
15	64QAM	36	0	17.84	17.93	17.90		
15	64QAM	36	20	17.96	17.96	18.04	19	3
15	64QAM	36	39	17.98	18.01	17.96		



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15	64QAM	75	0	17.90	17.88	17.97		
15	256QAM	1	0	15.99	15.96	15.96	17	2
15	256QAM	1	37	16.22	16.36	16.23		
15	256QAM	1	74	16.04	16.15	16.21		
15	256QAM	36	0	16.30	16.22	16.28	17	3
15	256QAM	36	20	16.35	16.31	16.31		
15	256QAM	36	39	16.38	16.44	16.44		
15	256QAM	75	0	16.24	16.29	16.30		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	20.39	20.45	20.78	22	0
10	QPSK	1	25	20.71	20.77	20.74		
10	QPSK	1	49	20.44	20.47	20.69		
10	QPSK	25	0	19.69	19.78	19.76	21	1
10	QPSK	25	12	19.85	19.84	19.82		
10	QPSK	25	25	19.71	19.80	19.80		
10	QPSK	50	0	19.76	19.75	19.75	21	1
10	16QAM	1	0	19.79	19.86	20.22		
10	16QAM	1	25	20.10	20.19	20.11		
10	16QAM	1	49	19.84	19.85	20.14	20	2
10	16QAM	25	0	18.68	18.76	18.78		
10	16QAM	25	12	18.84	18.85	18.82		
10	16QAM	25	25	18.70	18.79	18.78	20	2
10	16QAM	50	0	18.76	18.77	18.73		
10	64QAM	1	0	18.59	18.65	18.92		
10	64QAM	1	25	18.97	19.05	18.97	20	2
10	64QAM	1	49	18.63	18.82	18.92		
10	64QAM	25	0	17.71	17.81	17.65		
10	64QAM	25	12	17.86	17.85	17.74	19	3
10	64QAM	25	25	17.72	17.80	17.69		
10	64QAM	50	0	17.76	17.74	17.65		
10	256QAM	1	0	15.94	16.00	16.01	17	2
10	256QAM	1	25	16.22	16.41	16.26		
10	256QAM	1	49	16.11	16.21	16.17		
10	256QAM	25	0	16.23	16.29	16.21	17	3
10	256QAM	25	12	16.30	16.38	16.34		
10	256QAM	25	25	16.36	16.46	16.43		
10	256QAM	50	0	16.15	16.27	16.29		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	20.72	20.66	20.66	22	0
5	QPSK	1	12	20.76	20.81	20.78		
5	QPSK	1	24	20.61	20.68	20.68		
5	QPSK	12	0	19.83	19.87	19.87	21	1
5	QPSK	12	7	19.85	19.92	19.87		
5	QPSK	12	13	19.77	19.88	19.83		
5	QPSK	25	0	19.80	19.84	19.81	21	1
5	16QAM	1	0	20.06	19.99	19.96		
5	16QAM	1	12	20.01	20.06	19.99		
5	16QAM	1	24	19.92	20.01	19.99	20	2
5	16QAM	12	0	18.86	18.93	18.87		
5	16QAM	12	7	18.88	18.98	18.87		
5	16QAM	12	13	18.77	18.89	18.83	20	2
5	16QAM	25	0	18.79	18.89	18.82		
5	64QAM	1	0	18.94	18.90	18.81		
5	64QAM	1	12	18.97	18.98	18.83		



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5	64QAM	1	24	18.81	18.90	18.71		
5	64QAM	12	0	17.86	17.93	17.82	19	3
5	64QAM	12	7	17.85	17.97	17.79		
5	64QAM	12	13	17.78	17.90	17.73		
5	64QAM	25	0	17.74	17.84	17.71		
5	256QAM	1	0	15.96	16.04	15.95	17	2
5	256QAM	1	12	16.23	16.42	16.31		
5	256QAM	1	24	16.08	16.23	16.21		
5	256QAM	12	0	16.22	16.22	16.20	17	3
5	256QAM	12	7	16.29	16.30	16.29		
5	256QAM	12	13	16.33	16.38	16.40		
5	256QAM	25	0	16.23	16.31	16.23		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	20.79	20.76	20.79	22	0
3	QPSK	1	8	20.80	20.84	20.82		
3	QPSK	1	14	20.68	20.76	20.70		
3	QPSK	8	0	19.87	19.91	19.93	21	1
3	QPSK	8	4	19.85	19.94	19.93		
3	QPSK	8	7	19.80	19.93	19.86		
3	QPSK	15	0	19.84	19.87	19.91		
3	16QAM	1	0	20.12	20.17	20.16	21	1
3	16QAM	1	8	20.20	20.18	20.22		
3	16QAM	1	14	20.06	20.07	20.09		
3	16QAM	8	0	18.90	18.96	18.97	20	2
3	16QAM	8	4	18.89	19.00	18.98		
3	16QAM	8	7	18.83	18.96	18.91		
3	16QAM	15	0	18.87	18.91	18.94		
3	64QAM	1	0	18.93	18.94	18.92	20	2
3	64QAM	1	8	18.96	19.05	18.91		
3	64QAM	1	14	18.79	18.93	18.74		
3	64QAM	8	0	17.90	17.92	17.85	19	3
3	64QAM	8	4	17.90	17.99	17.83		
3	64QAM	8	7	17.86	17.90	17.73		
3	64QAM	15	0	17.84	17.82	17.73		
3	256QAM	1	0	15.97	16.00	16.01	17	2
3	256QAM	1	8	16.25	16.34	16.23		
3	256QAM	1	14	16.08	16.20	16.18		
3	256QAM	8	0	16.25	16.30	16.22	17	3
3	256QAM	8	4	16.32	16.38	16.28		
3	256QAM	8	7	16.31	16.46	16.36		
3	256QAM	15	0	16.15	16.35	16.25		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	20.67	20.72	20.69	22	0
1.4	QPSK	1	3	20.74	20.79	20.74		
1.4	QPSK	1	5	20.62	20.71	20.67		
1.4	QPSK	3	0	20.69	20.80	20.72		
1.4	QPSK	3	1	20.73	20.79	20.77		
1.4	QPSK	3	3	20.72	20.72	20.70		
1.4	QPSK	6	0	19.75	19.89	19.82	21	1
1.4	16QAM	1	0	20.06	20.12	20.02	21	1
1.4	16QAM	1	3	20.12	20.17	20.03		
1.4	16QAM	1	5	20.00	20.04	20.00		
1.4	16QAM	3	0	19.82	19.87	19.85		
1.4	16QAM	3	1	19.85	19.94	19.84		



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1.4	16QAM	3	3	19.80	19.81	19.80		
1.4	16QAM	6	0	18.85	19.00	18.91	20	2
1.4	64QAM	1	0	18.91	18.95	18.87	20	2
1.4	64QAM	1	3	18.92	19.01	18.89		
1.4	64QAM	1	5	18.87	18.95	18.78		
1.4	64QAM	3	0	18.89	18.90	18.75		
1.4	64QAM	3	1	18.88	18.94	18.78		
1.4	64QAM	3	3	18.83	18.89	18.74		
1.4	64QAM	6	0	17.74	17.81	17.67	19	3
1.4	256QAM	1	0	15.92	16.03	15.94	17	2
1.4	256QAM	1	3	16.26	16.39	16.27		
1.4	256QAM	1	5	16.13	16.20	16.19		
1.4	256QAM	3	0	16.24	16.26	16.28		
1.4	256QAM	3	1	16.30	16.29	16.28		
1.4	256QAM	3	3	16.37	16.42	16.40		
1.4	256QAM	6	0	16.19	16.99	16.30	17	3



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	20.56	20.71	20.68	22	0
20	QPSK	1	49	20.62	20.69	20.63		
20	QPSK	1	99	20.52	20.56	20.52		
20	QPSK	50	0	19.76	19.87	19.84	21	1
20	QPSK	50	24	19.94	19.97	19.88		
20	QPSK	50	50	19.83	19.84	19.85		
20	QPSK	100	0	19.81	19.80	19.85	21	1
20	16QAM	1	0	19.88	19.85	19.81		
20	16QAM	1	49	20.04	20.08	20.03		
20	16QAM	1	99	19.80	19.77	19.63	20	2
20	16QAM	50	0	18.78	18.81	18.76		
20	16QAM	50	24	18.94	18.93	18.80		
20	16QAM	50	50	18.78	18.84	18.79	20	2
20	16QAM	100	0	18.79	18.77	18.71		
20	64QAM	1	0	18.91	18.97	18.98		
20	64QAM	1	49	19.11	19.22	19.22	20	2
20	64QAM	1	99	18.93	18.90	18.91		
20	64QAM	50	0	17.94	18.04	18.01		
20	64QAM	50	24	18.06	18.16	17.99	19	3
20	64QAM	50	50	17.97	18.03	18.00		
20	64QAM	100	0	17.97	17.98	17.94		
20	256QAM	1	0	15.56	15.71	15.68	17	2
20	256QAM	1	49	15.62	15.69	15.63		
20	256QAM	1	99	15.52	15.56	15.52		
20	256QAM	50	0	15.58	15.76	15.71	17	3
20	256QAM	50	24	15.70	15.65	15.69		
20	256QAM	50	50	15.43	15.60	15.55		
20	256QAM	100	0	15.65	15.81	15.65	Tune-up limit (dBm)	MPR (dB)
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	20.65	20.66	20.62		
15	QPSK	1	37	20.56	20.55	20.56	22	0
15	QPSK	1	74	20.57	20.61	20.59		
15	QPSK	36	0	19.74	19.80	19.74		
15	QPSK	36	20	19.89	19.94	19.86	21	1
15	QPSK	36	39	19.84	19.86	19.80		
15	QPSK	75	0	19.80	19.79	19.82		
15	16QAM	1	0	19.86	19.90	20.01	21	1
15	16QAM	1	37	19.99	20.11	20.11		
15	16QAM	1	74	19.81	19.94	19.89		
15	16QAM	36	0	18.80	18.79	18.78	20	2
15	16QAM	36	20	18.89	18.93	18.89		
15	16QAM	36	39	18.87	18.83	18.83		
15	16QAM	75	0	18.82	18.82	18.85	20	2
15	64QAM	1	0	19.05	19.06	18.91		
15	64QAM	1	37	19.21	19.35	19.12		
15	64QAM	1	74	19.07	19.06	18.95	19	3
15	64QAM	36	0	17.93	18.07	18.02		
15	64QAM	36	20	18.03	18.22	18.12		
15	64QAM	36	39	17.99	18.07	18.06	19	3
15	64QAM	75	0	17.97	18.01	18.06		



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15	256QAM	1	0	15.50	15.80	15.74	17	2
15	256QAM	1	37	15.71	15.66	15.60		
15	256QAM	1	74	15.46	15.64	15.51		
15	256QAM	36	0	15.68	15.77	15.73	17	3
15	256QAM	36	20	15.67	15.57	15.60		
15	256QAM	36	39	15.35	15.70	15.53		
15	256QAM	75	0	15.59	15.79	15.60	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	20.31	20.29	20.28	22	0
10	QPSK	1	25	20.59	20.65	20.53		
10	QPSK	1	49	20.26	20.29	20.19		
10	QPSK	25	0	19.57	19.61	19.54	21	1
10	QPSK	25	12	19.71	19.73	19.68		
10	QPSK	25	25	19.55	19.61	19.55		
10	QPSK	50	0	19.62	19.67	19.60	21	1
10	16QAM	1	0	19.68	19.74	19.64		
10	16QAM	1	25	19.88	20.03	19.96		
10	16QAM	1	49	19.59	19.73	19.59	20	2
10	16QAM	25	0	18.54	18.60	18.55		
10	16QAM	25	12	18.71	18.75	18.68		
10	16QAM	25	25	18.55	18.62	18.51	20	2
10	16QAM	50	0	18.61	18.64	18.60		
10	64QAM	1	0	18.65	18.82	18.72		
10	64QAM	1	25	19.00	19.08	19.00	20	2
10	64QAM	1	49	18.59	18.75	18.65		
10	64QAM	25	0	17.70	17.84	17.78	19	3
10	64QAM	25	12	17.86	18.01	17.92		
10	64QAM	25	25	17.73	17.87	17.75		
10	64QAM	50	0	17.78	17.91	17.80	17	2
10	256QAM	1	0	15.54	15.86	15.69		
10	256QAM	1	25	15.68	15.74	15.70		
10	256QAM	1	49	15.50	15.60	15.45	17	3
10	256QAM	25	0	15.70	15.73	15.64		
10	256QAM	25	12	15.65	15.53	15.66		
10	256QAM	25	25	15.31	15.67	15.46	17	3
10	256QAM	50	0	15.68	15.78	15.63		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	20.54	20.58	20.49	22	0
5	QPSK	1	12	20.61	20.68	20.56		
5	QPSK	1	24	20.52	20.52	20.46		
5	QPSK	12	0	19.69	19.72	19.64	21	1
5	QPSK	12	7	19.71	19.74	19.74		
5	QPSK	12	13	19.66	19.72	19.63		
5	QPSK	25	0	19.64	19.72	19.59	21	1
5	16QAM	1	0	19.96	19.93	19.88		
5	16QAM	1	12	20.00	19.95	19.96		
5	16QAM	1	24	19.87	19.84	19.77	20	2
5	16QAM	12	0	18.72	18.74	18.67		
5	16QAM	12	7	18.74	18.78	18.76		
5	16QAM	12	13	18.65	18.69	18.64	20	2
5	16QAM	25	0	18.67	18.74	18.61		
5	64QAM	1	0	18.92	19.07	18.92		
5	64QAM	1	12	18.95	19.04	18.96	20	2
5	64QAM	1	24	18.88	18.92	18.93		



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5	64QAM	12	0	17.87	17.96	17.84	19	3
5	64QAM	12	7	17.92	18.03	17.90		
5	64QAM	12	13	17.84	17.97	17.88		
5	64QAM	25	0	17.83	17.96	17.76		
5	256QAM	1	0	15.58	15.95	15.78	17	2
5	256QAM	1	12	15.78	15.81	15.63		
5	256QAM	1	24	15.55	15.63	15.41		
5	256QAM	12	0	15.73	15.73	15.62	17	3
5	256QAM	12	7	15.57	15.61	15.63		
5	256QAM	12	13	15.33	15.60	15.53		
5	256QAM	25	0	15.69	15.86	15.63		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	20.68	20.66	20.60	22	0
3	QPSK	1	8	20.68	20.63	20.65		
3	QPSK	1	14	20.56	20.62	20.52		
3	QPSK	8	0	19.72	19.76	19.68	21	1
3	QPSK	8	4	19.72	19.80	19.71		
3	QPSK	8	7	19.71	19.70	19.66		
3	QPSK	15	0	19.72	19.72	19.64		
3	16QAM	1	0	19.98	20.03	19.91	21	1
3	16QAM	1	8	20.05	20.06	19.98		
3	16QAM	1	14	19.88	19.99	19.90		
3	16QAM	8	0	18.81	18.84	18.72	20	2
3	16QAM	8	4	18.80	18.82	18.77		
3	16QAM	8	7	18.75	18.75	18.71		
3	16QAM	15	0	18.76	18.78	18.68		
3	64QAM	1	0	19.08	19.25	19.01	20	2
3	64QAM	1	8	19.12	19.24	19.06		
3	64QAM	1	14	18.99	19.11	18.96		
3	64QAM	8	0	17.92	18.00	17.92	19	3
3	64QAM	8	4	17.91	18.02	17.91		
3	64QAM	8	7	17.85	17.96	17.81		
3	64QAM	15	0	17.84	17.94	17.85		
3	256QAM	1	0	15.60	15.94	15.74	17	2
3	256QAM	1	8	15.73	15.78	15.55		
3	256QAM	1	14	15.53	15.67	15.35		
3	256QAM	8	0	15.78	15.73	15.56	17	3
3	256QAM	8	4	15.54	15.52	15.61		
3	256QAM	8	7	15.42	15.51	15.46		
3	256QAM	15	0	15.71	15.78	15.64		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	20.51	20.56	20.49	22	0
1.4	QPSK	1	3	20.55	20.62	20.52		
1.4	QPSK	1	5	20.49	20.52	20.46		
1.4	QPSK	3	0	20.59	20.60	20.56		
1.4	QPSK	3	1	20.58	20.60	20.57		
1.4	QPSK	3	3	20.55	20.60	20.47	21	1
1.4	QPSK	6	0	19.58	19.63	19.56		
1.4	16QAM	1	0	19.88	19.88	19.80	21	1
1.4	16QAM	1	3	19.98	19.95	19.89		
1.4	16QAM	1	5	19.86	19.85	19.77		
1.4	16QAM	3	0	19.68	19.72	19.65		
1.4	16QAM	3	1	19.70	19.73	19.71		
1.4	16QAM	3	3	19.64	19.68	19.58		



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1.4	16QAM	6	0	18.69	18.68	18.67	20	2
1.4	64QAM	1	0	18.91	19.04	18.87	20	2
1.4	64QAM	1	3	19.00	19.10	18.96		
1.4	64QAM	1	5	18.88	19.00	18.88		
1.4	64QAM	3	0	18.91	19.02	18.87		
1.4	64QAM	3	1	19.00	19.06	18.97		
1.4	64QAM	3	3	18.87	19.03	18.86		
1.4	64QAM	6	0	17.78	17.85	17.71	19	3
1.4	256QAM	1	0	15.57	16.00	15.83	17	2
1.4	256QAM	1	3	15.75	15.68	15.46		
1.4	256QAM	1	5	15.47	15.75	15.28		
1.4	256QAM	3	0	15.80	15.76	15.55		
1.4	256QAM	3	1	15.51	15.61	15.63		
1.4	256QAM	3	3	15.50	15.44	15.53		
1.4	256QAM	6	0	15.75	15.70	15.71	17	3



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.51	22.55	22.59	23.8	0
10	QPSK	1	25	22.58	22.58	22.50		
10	QPSK	1	49	22.68	22.61	22.65		
10	QPSK	25	0	21.62	21.61	21.63	22.8	1
10	QPSK	25	12	21.72	21.62	21.64		
10	QPSK	25	25	21.65	21.61	21.59		
10	QPSK	50	0	21.63	21.55	21.60	22.8	1
10	16QAM	1	0	21.90	22.13	22.20		
10	16QAM	1	25	21.86	22.29	22.17		
10	16QAM	1	49	22.09	22.23	22.11	21.8	2
10	16QAM	25	0	20.81	20.75	20.73		
10	16QAM	25	12	20.80	20.73	20.66		
10	16QAM	25	25	20.68	20.80	20.67	21.8	2
10	16QAM	50	0	20.71	20.58	20.63		
10	64QAM	1	0	20.75	20.78	20.78		
10	64QAM	1	25	20.83	20.81	20.84	21.8	2
10	64QAM	1	49	20.84	20.85	20.70		
10	64QAM	25	0	19.60	19.63	19.61	20.8	3
10	64QAM	25	12	19.67	19.64	19.64		
10	64QAM	25	25	19.61	19.66	19.62		
10	64QAM	50	0	19.60	19.58	19.53	18.8	2
10	256QAM	1	0	17.47	17.59	17.54		
10	256QAM	1	25	17.58	17.59	17.43		
10	256QAM	1	49	17.66	17.55	17.58	18.8	3
10	256QAM	25	0	17.57	17.54	17.52		
10	256QAM	25	12	17.64	17.51	17.46		
10	256QAM	25	25	17.66	17.58	17.48	18.8	3
10	256QAM	50	0	17.63	17.58	17.44		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.59	22.40	22.42	23.8	0
5	QPSK	1	12	22.59	22.58	22.59		
5	QPSK	1	24	22.64	22.59	22.47		
5	QPSK	12	0	21.75	21.68	21.61	22.8	1
5	QPSK	12	7	21.72	21.74	21.63		
5	QPSK	12	13	21.70	21.69	21.62		
5	QPSK	25	0	21.72	21.58	21.61	22.8	1
5	16QAM	1	0	21.95	21.81	21.71		
5	16QAM	1	12	21.97	21.87	21.78		
5	16QAM	1	24	22.05	22.01	21.72	21.8	2
5	16QAM	12	0	20.67	20.55	20.54		
5	16QAM	12	7	20.81	20.74	20.63		
5	16QAM	12	13	20.69	20.69	20.70	21.8	2
5	16QAM	25	0	20.68	20.62	20.63		
5	64QAM	1	0	20.76	20.73	20.69		
5	64QAM	1	12	20.83	20.78	20.84	21.8	2
5	64QAM	1	24	20.87	20.78	20.71		
5	64QAM	12	0	19.69	19.61	19.67		
5	64QAM	12	7	19.71	19.73	19.67	20.8	3
5	64QAM	12	13	19.67	19.70	19.64		
5	64QAM	25	0	19.63	19.58	19.57		



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5	256QAM	1	0	17.56	17.58	17.47	18.8	2
5	256QAM	1	12	17.60	17.56	17.44		
5	256QAM	1	24	17.57	17.63	17.57		
5	256QAM	12	0	17.53	17.52	17.42	18.8	3
5	256QAM	12	7	17.70	17.50	17.47		
5	256QAM	12	13	17.64	17.54	17.53		
5	256QAM	25	0	17.59	17.68	17.43	Tune-up limit (dBm)	MPR (dB)
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.68	22.49	22.49	23.8	0
3	QPSK	1	8	22.62	22.55	22.64		
3	QPSK	1	14	22.64	22.52	22.47		
3	QPSK	8	0	21.75	21.71	21.64	22.8	1
3	QPSK	8	4	21.74	21.74	21.68		
3	QPSK	8	7	21.73	21.75	21.69		
3	QPSK	15	0	21.73	21.68	21.62	22.8	1
3	16QAM	1	0	22.18	21.75	21.83		
3	16QAM	1	8	21.95	21.89	21.81		
3	16QAM	1	14	22.26	21.86	21.74	21.8	2
3	16QAM	8	0	20.77	20.68	20.68		
3	16QAM	8	4	20.89	20.79	20.67		
3	16QAM	8	7	20.85	20.82	20.76	21.8	2
3	16QAM	15	0	20.80	20.62	20.67		
3	64QAM	1	0	20.81	20.75	20.79		
3	64QAM	1	8	20.91	20.87	20.87	21.8	2
3	64QAM	1	14	20.91	20.79	20.75		
3	64QAM	8	0	19.67	19.68	19.65	20.8	3
3	64QAM	8	4	19.74	19.76	19.72		
3	64QAM	8	7	19.66	19.71	19.61		
3	64QAM	15	0	19.64	19.64	19.67	18.8	2
3	256QAM	1	0	17.59	17.48	17.44		
3	256QAM	1	8	17.56	17.50	17.36		
3	256QAM	1	14	17.47	17.69	17.59	18.8	3
3	256QAM	8	0	17.56	17.42	17.43		
3	256QAM	8	4	17.76	17.58	17.46		
3	256QAM	8	7	17.55	17.54	17.54	17.49	17.73
3	256QAM	15	0	17.49	17.73	17.49		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.54	22.41	22.49	23.8	0
1.4	QPSK	1	3	22.64	22.55	22.49		
1.4	QPSK	1	5	22.58	22.56	22.42		
1.4	QPSK	3	0	22.62	22.46	22.48	22.8	1
1.4	QPSK	3	1	22.65	22.47	22.44		
1.4	QPSK	3	3	22.67	22.58	22.43		
1.4	QPSK	6	0	21.67	21.57	21.51	22.8	1
1.4	16QAM	1	0	21.65	21.51	21.50		
1.4	16QAM	1	3	21.67	21.67	21.70		
1.4	16QAM	1	5	21.61	21.60	21.63	21.8	2
1.4	16QAM	3	0	21.78	21.62	21.60		
1.4	16QAM	3	1	21.85	21.55	21.63		
1.4	16QAM	3	3	21.70	21.67	21.57	21.8	2
1.4	16QAM	6	0	20.69	20.62	20.54		
1.4	64QAM	1	0	20.80	20.72	20.71		
1.4	64QAM	1	3	20.83	20.78	20.71	20.77	20.70
1.4	64QAM	1	5	20.77	20.70	20.62		



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1.4	64QAM	3	0	20.70	20.63	20.67		
1.4	64QAM	3	1	20.76	20.70	20.72		
1.4	64QAM	3	3	20.69	20.71	20.65		
1.4	64QAM	6	0	19.61	19.55	19.54	20.8	3
1.4	256QAM	1	0	17.49	17.50	17.46	18.8	2
1.4	256QAM	1	3	17.58	17.40	17.39		
1.4	256QAM	1	5	17.50	17.79	17.50		
1.4	256QAM	3	0	17.65	17.43	17.48		
1.4	256QAM	3	1	17.81	17.49	17.52		
1.4	256QAM	3	3	17.62	17.55	17.58		
1.4	256QAM	6	0	17.52	17.74	17.50	18.8	3



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.26	21.16	21.09	21.8	0
20	QPSK	1	49	21.24	21.13	21.08		
20	QPSK	1	99	21.22	21.10	21.05		
20	QPSK	50	0	20.34	20.28	20.16	20.8	1
20	QPSK	50	24	20.37	20.32	20.21		
20	QPSK	50	50	20.32	20.25	20.07		
20	QPSK	100	0	20.27	20.21	20.13	20.8	1
20	16QAM	1	0	20.12	20.15	20.09		
20	16QAM	1	49	20.18	20.25	20.04		
20	16QAM	1	99	20.21	20.23	20.11	19.8	2
20	16QAM	50	0	18.93	18.94	18.88		
20	16QAM	50	24	18.97	18.90	18.89		
20	16QAM	50	50	19.00	18.94	18.86	19.8	2
20	16QAM	100	0	18.88	18.84	18.80		
20	64QAM	1	0	18.66	18.61	18.70	19.8	2
20	64QAM	1	49	18.72	18.75	18.71		
20	64QAM	1	99	18.80	18.70	18.65		
20	64QAM	50	0	17.69	17.66	17.70	18.8	3
20	64QAM	50	24	17.71	17.70	17.71		
20	64QAM	50	50	17.70	17.72	17.70		
20	64QAM	100	0	17.63	17.60	17.59	16.8	2
20	256QAM	1	0	16.22	16.16	16.12		
20	256QAM	1	49	16.24	16.19	16.11		
20	256QAM	1	99	16.18	16.16	16.13	16.8	3
20	256QAM	50	0	16.26	16.15	16.02		
20	256QAM	50	24	16.19	16.23	16.09		
20	256QAM	50	50	16.22	16.18	16.05	16.8	3
20	256QAM	100	0	16.20	16.21	16.06		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.80	20.81	20.77	21.8	0
15	QPSK	1	37	20.84	20.83	20.70		
15	QPSK	1	74	20.84	20.85	20.69		
15	QPSK	36	0	19.96	19.90	19.86	20.8	1
15	QPSK	36	20	20.00	19.93	19.89		
15	QPSK	36	39	19.98	19.94	19.87		
15	QPSK	75	0	19.95	19.91	19.83	20.8	1
15	16QAM	1	0	20.17	20.17	20.08		
15	16QAM	1	37	20.24	20.23	20.06		
15	16QAM	1	74	20.31	20.24	20.11	19.8	2
15	16QAM	36	0	18.94	18.92	18.85		
15	16QAM	36	20	19.00	18.95	18.86		
15	16QAM	36	39	18.98	18.95	18.83	19.8	2
15	16QAM	75	0	18.95	18.91	18.83		
15	64QAM	1	0	18.66	18.71	18.77		
15	64QAM	1	37	18.74	18.81	18.80	19.8	2
15	64QAM	1	74	18.72	18.70	18.66		
15	64QAM	36	0	17.73	17.71	17.69		
15	64QAM	36	20	17.71	17.73	17.70	18.8	3
15	64QAM	36	39	17.72	17.68	17.71		
15	64QAM	75	0	17.64	17.63	17.67		



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15	256QAM	1	0	15.89	15.84	15.68	16.8	2
15	256QAM	1	37	15.94	15.75	15.74		
15	256QAM	1	74	15.87	15.72	15.65		
15	256QAM	36	0	15.92	15.76	15.69	16.8	3
15	256QAM	36	20	15.95	15.78	15.74		
15	256QAM	36	39	15.88	15.80	15.60		
15	256QAM	75	0	15.87	15.80	15.52	Tune-up limit (dBm)	MPR (dB)
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.59	20.65	20.45	21.8	0
10	QPSK	1	25	20.61	20.69	20.51		
10	QPSK	1	49	20.66	20.64	20.50		
10	QPSK	25	0	19.74	19.78	19.58	20.8	1
10	QPSK	25	12	19.78	19.79	19.64		
10	QPSK	25	25	19.75	19.72	19.62		
10	QPSK	50	0	19.70	19.67	19.56	20.8	1
10	16QAM	1	0	19.99	20.06	19.87		
10	16QAM	1	25	20.01	20.06	19.88		
10	16QAM	1	49	20.05	20.06	19.89	19.8	2
10	16QAM	25	0	18.76	18.80	18.59		
10	16QAM	25	12	18.77	18.83	18.64		
10	16QAM	25	25	18.74	18.66	18.58	19.8	2
10	16QAM	50	0	18.68	18.68	18.53		
10	64QAM	1	0	18.57	18.68	18.61		
10	64QAM	1	25	18.55	18.76	18.64	19.8	2
10	64QAM	1	49	18.56	18.62	18.54		
10	64QAM	25	0	17.41	17.54	17.42	18.8	3
10	64QAM	25	12	17.47	17.54	17.43		
10	64QAM	25	25	17.43	17.48	17.42		
10	64QAM	50	0	17.39	17.42	17.38	16.8	2
10	256QAM	1	0	15.65	15.67	15.52		
10	256QAM	1	25	15.66	15.70	15.46		
10	256QAM	1	49	15.75	15.65	15.58	16.8	3
10	256QAM	25	0	15.59	15.72	15.47		
10	256QAM	25	12	15.56	15.80	15.53		
10	256QAM	25	25	15.83	15.67	15.67	Tune-up limit (dBm)	MPR (dB)
10	256QAM	50	0	15.68	15.81	15.50		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.66	20.67	20.52	21.8	0
5	QPSK	1	12	20.66	20.72	20.55		
5	QPSK	1	24	20.65	20.69	20.53		
5	QPSK	12	0	19.73	19.79	19.62	20.8	1
5	QPSK	12	7	19.75	19.80	19.60		
5	QPSK	12	13	19.73	19.82	19.60		
5	QPSK	25	0	19.74	19.77	19.61	20.8	1
5	16QAM	1	0	19.99	20.03	19.87		
5	16QAM	1	12	19.97	20.01	19.82		
5	16QAM	1	24	19.94	20.04	19.87	19.8	2
5	16QAM	12	0	18.77	18.82	18.60		
5	16QAM	12	7	18.83	18.83	18.69		
5	16QAM	12	13	18.79	18.81	18.64	19.8	2
5	16QAM	25	0	18.75	18.80	18.62		
5	64QAM	1	0	18.56	18.70	18.58		
5	64QAM	1	12	18.54	18.66	18.55	19.8	2
5	64QAM	1	24	18.56	18.68	18.56		



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5	64QAM	12	0	17.44	17.56	17.45	18.8	3
5	64QAM	12	7	17.51	17.62	17.53		
5	64QAM	12	13	17.44	17.54	17.42		
5	64QAM	25	0	17.39	17.48	17.39		
5	256QAM	1	0	15.68	15.71	15.61	16.8	2
5	256QAM	1	12	15.60	15.63	15.38		
5	256QAM	1	24	15.71	15.63	15.63		
5	256QAM	12	0	15.57	15.66	15.47	16.8	3
5	256QAM	12	7	15.63	15.83	15.50		
5	256QAM	12	13	15.81	15.69	15.77		
5	256QAM	25	0	15.72	15.80	15.54		



<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.75	22.66	22.74	23.8	0
10	QPSK	1	25	22.97	22.98	22.82		
10	QPSK	1	49	22.73	22.88	22.69		
10	QPSK	25	0	21.86	21.80	21.75	22.8	1
10	QPSK	25	12	21.95	21.99	21.89		
10	QPSK	25	25	21.82	21.91	21.75		
10	QPSK	50	0	21.85	21.89	21.70	22.8	1
10	16QAM	1	0	22.31	22.21	22.25		
10	16QAM	1	25	22.33	22.22	22.04		
10	16QAM	1	49	22.24	22.26	22.25	21.8	2
10	16QAM	25	0	20.87	20.81	20.79		
10	16QAM	25	12	20.92	20.80	20.86		
10	16QAM	25	25	20.69	20.82	20.95	21.8	2
10	16QAM	50	0	20.88	20.74	20.73		
10	64QAM	1	0	21.06	21.02	20.96		
10	64QAM	1	25	21.07	21.09	20.96	21.8	2
10	64QAM	1	49	21.06	21.06	20.99		
10	64QAM	25	0	19.76	19.75	19.75		
10	64QAM	25	12	19.93	19.89	19.92	20.8	3
10	64QAM	25	25	19.88	19.91	19.86		
10	64QAM	50	0	19.87	19.76	19.79		
10	256QAM	1	0	17.75	17.66	17.74	18.8	2
10	256QAM	1	25	17.97	17.98	17.82		
10	256QAM	1	49	17.73	17.88	17.69		
10	256QAM	25	0	17.75	17.67	17.79	18.8	3
10	256QAM	25	12	17.90	18.07	17.91		
10	256QAM	25	25	17.82	17.96	17.67		
10	256QAM	50	0	17.66	17.63	17.65	Tune-up limit (dBm)	MPR (dB)
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.85	22.78	22.76		
5	QPSK	1	12	22.87	22.86	22.84	23.8	0
5	QPSK	1	24	22.80	22.85	22.71		
5	QPSK	12	0	21.93	21.91	21.77		
5	QPSK	12	7	21.99	21.94	21.88	22.8	1
5	QPSK	12	13	21.93	21.88	21.80		
5	QPSK	25	0	21.89	21.88	21.85		
5	16QAM	1	0	21.92	21.75	21.72	22.8	1
5	16QAM	1	12	22.01	21.81	21.84		
5	16QAM	1	24	21.96	21.90	21.73		
5	16QAM	12	0	20.99	20.92	20.99	21.8	2
5	16QAM	12	7	20.97	20.97	20.90		
5	16QAM	12	13	20.98	20.91	20.95		
5	16QAM	25	0	20.96	20.89	20.84	21.8	2
5	64QAM	1	0	21.05	20.95	20.88		
5	64QAM	1	12	21.00	21.02	20.99		
5	64QAM	1	24	21.01	21.03	20.93	20.8	3
5	64QAM	12	0	19.92	19.88	19.84		
5	64QAM	12	7	19.96	19.98	19.88		
5	64QAM	12	13	19.94	19.93	19.85	20.8	3
5	64QAM	25	0	19.90	19.83	19.80		



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5	256QAM	1	0	17.81	17.57	17.81	18.8	2
5	256QAM	1	12	17.95	17.89	17.88		
5	256QAM	1	24	17.68	17.97	17.69		
5	256QAM	12	0	17.85	17.77	17.79	18.8	3
5	256QAM	12	7	18.00	18.04	17.85		
5	256QAM	12	13	17.91	18.03	17.68		
5	256QAM	25	0	17.72	17.53	17.56	Tune-up limit (dBm)	MPR (dB)
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.91	22.83	22.79	23.8	0
3	QPSK	1	8	22.95	22.94	22.83		
3	QPSK	1	14	22.92	22.83	22.73		
3	QPSK	8	0	21.95	21.91	21.89	22.8	1
3	QPSK	8	4	22.03	21.96	21.87		
3	QPSK	8	7	21.90	21.91	21.82		
3	QPSK	15	0	21.93	21.90	21.94	22.8	1
3	16QAM	1	0	22.50	22.34	22.29		
3	16QAM	1	8	22.49	22.47	22.32		
3	16QAM	1	14	22.50	22.43	21.98	21.8	2
3	16QAM	8	0	20.96	20.91	20.93		
3	16QAM	8	4	20.98	20.98	20.92		
3	16QAM	8	7	20.95	21.02	20.87	21.8	2
3	16QAM	15	0	20.98	21.00	20.89		
3	64QAM	1	0	21.06	21.01	21.04		
3	64QAM	1	8	21.09	21.13	21.03	21.8	2
3	64QAM	1	14	21.06	21.10	20.99		
3	64QAM	8	0	20.02	19.90	19.91	20.8	3
3	64QAM	8	4	19.98	20.00	19.91		
3	64QAM	8	7	20.01	19.99	19.86		
3	64QAM	15	0	19.95	19.86	19.86	18.8	2
3	256QAM	1	0	17.75	17.64	17.91		
3	256QAM	1	8	17.93	17.96	17.96		
3	256QAM	1	14	17.70	18.04	17.74	18.8	3
3	256QAM	8	0	17.85	17.75	17.74		
3	256QAM	8	4	17.99	18.01	17.91		
3	256QAM	8	7	17.91	18.13	17.68	18.8	3
3	256QAM	15	0	17.75	17.55	17.48		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.76	22.69	22.72		
1.4	QPSK	1	3	22.91	22.85	22.75	23.8	0
1.4	QPSK	1	5	22.85	22.81	22.65		
1.4	QPSK	3	0	22.85	22.76	22.72		
1.4	QPSK	3	1	22.78	22.75	22.79	22.8	1
1.4	QPSK	3	3	22.81	22.79	22.73		
1.4	QPSK	6	0	21.83	21.79	21.80		
1.4	16QAM	1	0	22.09	22.03	21.91	22.8	1
1.4	16QAM	1	3	22.09	22.16	22.01		
1.4	16QAM	1	5	22.11	22.10	21.85		
1.4	16QAM	3	0	22.00	21.87	21.76	21.8	2
1.4	16QAM	3	1	21.98	21.88	21.79		
1.4	16QAM	3	3	21.92	21.97	21.75		
1.4	16QAM	6	0	21.06	20.91	20.74	21.8	2
1.4	64QAM	1	0	20.99	20.99	20.91		
1.4	64QAM	1	3	21.07	21.06	20.94		
1.4	64QAM	1	5	21.01	21.01	20.86	21.8	2



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1.4	64QAM	3	0	21.00	20.96	20.91		
1.4	64QAM	3	1	21.02	20.99	20.92		
1.4	64QAM	3	3	20.98	20.99	20.88		
1.4	64QAM	6	0	19.82	19.79	19.75	20.8	3
1.4	256QAM	1	0	17.59	17.64	17.71	18.8	2
1.4	256QAM	1	3	17.93	17.87	17.80		
1.4	256QAM	1	5	17.62	18.02	17.57		
1.4	256QAM	3	0	17.78	17.74	17.60		
1.4	256QAM	3	1	17.91	17.91	17.76		
1.4	256QAM	3	3	17.71	18.00	17.55		
1.4	256QAM	6	0	17.64	17.54	17.29	18.8	3



<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.69		23.8	0
10	QPSK	1	25		22.63			
10	QPSK	1	49		22.62			
10	QPSK	25	0		21.66		22.8	1
10	QPSK	25	12		21.83			
10	QPSK	25	25		21.80			
10	QPSK	50	0		21.76		22.8	1
10	16QAM	1	0		21.87			
10	16QAM	1	25		21.59			
10	16QAM	1	49		21.70		21.8	2
10	16QAM	25	0		20.64			
10	16QAM	25	12		20.69			
10	16QAM	25	25		20.77		21.8	2
10	16QAM	50	0		20.85			
10	64QAM	1	0		20.75			
10	64QAM	1	25		20.70		21.8	2
10	64QAM	1	49		20.65			
10	64QAM	25	0		19.56			
10	64QAM	25	12		19.55		20.8	3
10	64QAM	25	25		19.58			
10	64QAM	50	0		19.45			
10	256QAM	1	0		17.69		18.8	2
10	256QAM	1	25		17.63			
10	256QAM	1	49		17.62			
10	256QAM	25	0		17.57		18.8	3
10	256QAM	25	12		17.58			
10	256QAM	25	25		17.46			
10	256QAM	50	0		17.44			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.68	22.65	22.55	23.8	0
5	QPSK	1	12	22.62	22.63	22.65		
5	QPSK	1	24	22.61	22.62	22.62		
5	QPSK	12	0	21.85	21.77	21.69	22.8	1
5	QPSK	12	7	21.87	21.88	21.81		
5	QPSK	12	13	21.87	21.81	21.78		
5	QPSK	25	0	21.88	21.71	21.66	22.8	1
5	16QAM	1	0	21.89	21.81	21.79		
5	16QAM	1	12	21.91	21.67	21.84		
5	16QAM	1	24	22.23	22.26	21.67	21.8	2
5	16QAM	12	0	20.93	20.84	20.79		
5	16QAM	12	7	20.92	20.89	20.82		
5	16QAM	12	13	21.00	20.93	20.86	21.8	2
5	16QAM	25	0	21.06	20.84	20.85		
5	64QAM	1	0	20.62	20.71	20.73		
5	64QAM	1	12	20.75	20.81	20.68	21.8	2
5	64QAM	1	24	20.79	20.68	20.66		
5	64QAM	12	0	19.63	19.58	19.58	20.8	3
5	64QAM	12	7	19.69	19.63	19.64		
5	64QAM	12	13	19.65	19.65	19.62		
5	64QAM	25	0	19.63	19.53	19.54		



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5	256QAM	1	0	17.68	17.65	17.55	18.8	2
5	256QAM	1	12	17.62	17.63	17.65		
5	256QAM	1	24	17.61	17.62	17.62		
5	256QAM	12	0	17.68	17.65	17.48	18.8	3
5	256QAM	12	7	17.58	17.53	17.65		
5	256QAM	12	13	17.54	17.59	17.60		
5	256QAM	25	0	17.63	17.59	17.46		



<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800	23.8	0
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.81	22.87	22.84		
10	QPSK	1	25	22.70	22.70	22.71	22.8	1
10	QPSK	1	49	22.66	22.77	22.75		
10	QPSK	25	0	21.87	21.88	21.88		
10	QPSK	25	12	21.92	21.99	21.96	22.8	1
10	QPSK	25	25	21.90	21.87	21.84		
10	QPSK	50	0	21.82	21.94	21.86		
10	16QAM	1	0	21.93	21.93	22.39	22.8	1
10	16QAM	1	25	21.97	22.02	21.91		
10	16QAM	1	49	22.01	22.07	21.75		
10	16QAM	25	0	20.81	20.85	20.90	21.8	2
10	16QAM	25	12	20.79	20.95	20.78		
10	16QAM	25	25	20.96	20.91	20.79		
10	16QAM	50	0	20.87	20.78	20.88	21.8	2
10	64QAM	1	0	21.06	20.95	20.89		
10	64QAM	1	25	21.08	21.07	21.05		
10	64QAM	1	49	21.07	20.94	20.91	20.8	3
10	64QAM	25	0	19.90	19.88	19.88		
10	64QAM	25	12	20.00	19.92	19.89		
10	64QAM	25	25	19.97	19.87	19.89	18.8	2
10	64QAM	50	0	19.91	19.90	19.88		
10	256QAM	1	0	17.72	17.79	17.90		
10	256QAM	1	25	17.75	17.63	17.77	18.8	3
10	256QAM	1	49	17.74	17.80	17.81		
10	256QAM	25	0	17.68	17.84	17.82		
10	256QAM	25	12	17.71	17.53	17.87	18.8	3
10	256QAM	25	25	17.83	17.79	17.87		
10	256QAM	50	0	17.68	17.83	17.83		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.83	22.83	22.81	23.8	0
5	QPSK	1	12	22.78	22.83	22.75		
5	QPSK	1	24	22.82	22.81	22.75		
5	QPSK	12	0	22.01	21.96	21.87	22.8	1
5	QPSK	12	7	22.00	21.95	21.88		
5	QPSK	12	13	21.94	21.89	21.86		
5	QPSK	25	0	21.97	21.92	21.85	22.8	1
5	16QAM	1	0	21.84	22.36	21.85		
5	16QAM	1	12	21.78	22.38	22.22		
5	16QAM	1	24	22.42	22.37	22.19	21.8	2
5	16QAM	12	0	21.00	20.88	20.93		
5	16QAM	12	7	20.97	20.97	20.91		
5	16QAM	12	13	20.98	20.96	20.86	21.8	2
5	16QAM	25	0	21.04	20.93	20.84		
5	64QAM	1	0	21.06	20.95	20.97		
5	64QAM	1	12	20.98	21.03	21.00	20.8	3
5	64QAM	1	24	20.99	20.97	20.88		
5	64QAM	12	0	19.93	19.94	19.88		
5	64QAM	12	7	19.99	19.96	19.94	20.8	3
5	64QAM	12	13	19.96	19.92	19.91		
5	64QAM	25	0	19.93	19.91	19.86		



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5	256QAM	1	0	17.83	17.93	17.70	18.8	2
5	256QAM	1	12	17.78	17.80	17.55		
5	256QAM	1	24	17.82	17.91	17.69		
5	256QAM	12	0	17.83	17.90	17.64	18.8	3
5	256QAM	12	7	17.74	17.77	17.50		
5	256QAM	12	13	17.81	17.87	17.60		
5	256QAM	25	0	17.77	17.81	17.60		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	21.15	21.23	21.19	22	0
20	QPSK	1	49	21.14	21.20	21.17		
20	QPSK	1	99	21.09	21.13	21.12		
20	QPSK	50	0	20.17	20.30	20.19	21	1
20	QPSK	50	24	20.18	20.36	20.24		
20	QPSK	50	50	20.15	20.28	20.18		
20	QPSK	100	0	20.15	20.25	20.12	21	1
20	16QAM	1	0	20.23	20.25	20.28		
20	16QAM	1	49	20.18	20.21	20.16		
20	16QAM	1	99	20.15	20.18	20.11	20	2
20	16QAM	50	0	18.86	18.98	18.94		
20	16QAM	50	24	18.94	19.05	18.91		
20	16QAM	50	50	18.84	18.98	18.97	20	2
20	16QAM	100	0	18.87	18.93	18.84		
20	64QAM	1	0	18.91	19.01	18.99		
20	64QAM	1	49	18.98	18.97	18.81	20	2
20	64QAM	1	99	18.80	18.93	18.84		
20	64QAM	50	0	17.80	17.91	17.85		
20	64QAM	50	24	17.88	17.94	17.80	19	3
20	64QAM	50	50	17.81	17.90	17.86		
20	64QAM	100	0	17.75	17.85	17.75		
20	256QAM	1	0	16.08	16.08	16.04	17	2
20	256QAM	1	49	16.09	16.16	15.97		
20	256QAM	1	99	16.01	15.93	16.04		
20	256QAM	50	0	16.08	16.02	15.95	17	3
20	256QAM	50	24	16.02	16.10	15.94		
20	256QAM	50	50	15.82	15.86	15.92		
20	256QAM	100	0	15.90	15.82	15.93	Tune-up limit (dBm)	MPR (dB)
Channel				26115	26340	26615		
Frequency (MHz)				1857.5	1880	1907.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	20.63	20.88	20.87		
15	QPSK	1	37	20.79	20.87	20.85	22	0
15	QPSK	1	74	20.67	20.87	20.87		
15	QPSK	36	0	19.81	19.83	19.84		
15	QPSK	36	20	19.97	20.02	20.00	21	1
15	QPSK	36	39	19.89	19.98	19.98		
15	QPSK	75	0	19.87	19.94	19.94		
15	16QAM	1	0	19.90	20.24	20.28	21	1
15	16QAM	1	37	20.14	20.21	20.20		
15	16QAM	1	74	20.02	20.15	20.22		
15	16QAM	36	0	18.80	18.83	18.81	20	2
15	16QAM	36	20	18.97	19.01	19.00		
15	16QAM	36	39	18.91	18.96	18.94		
15	16QAM	75	0	18.91	19.01	18.94	20	2
15	64QAM	1	0	18.70	19.00	18.88		
15	64QAM	1	37	18.92	19.07	18.82		
15	64QAM	1	74	18.80	19.02	18.89	19	3
15	64QAM	36	0	17.72	17.86	17.74		
15	64QAM	36	20	17.88	17.97	17.87		
15	64QAM	36	39	17.84	17.90	17.87	19	3
15	64QAM	75	0	17.80	17.86	17.81		



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15	256QAM	1	0	15.55	15.82	15.88	17	2
15	256QAM	1	37	15.59	15.67	15.84		
15	256QAM	1	74	15.52	15.84	15.83		
15	256QAM	36	0	15.47	15.79	15.79	17	3
15	256QAM	36	20	15.57	15.65	15.77		
15	256QAM	36	39	15.49	15.77	15.79		
15	256QAM	75	0	15.40	15.76	15.75	Tune-up limit (dBm)	MPR (dB)
Channel				26090	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	20.31	20.42	20.60	22	0
10	QPSK	1	25	20.55	20.62	20.56		
10	QPSK	1	49	20.28	20.32	20.59		
10	QPSK	25	0	19.57	19.64	19.65	21	1
10	QPSK	25	12	19.71	19.85	19.73		
10	QPSK	25	25	19.62	19.74	19.75		
10	QPSK	50	0	19.60	19.69	19.65	21	1
10	16QAM	1	0	19.70	19.76	19.99		
10	16QAM	1	25	19.93	19.95	19.99		
10	16QAM	1	49	19.69	19.68	19.97	20	2
10	16QAM	25	0	18.58	18.64	18.60		
10	16QAM	25	12	18.75	18.81	18.75		
10	16QAM	25	25	18.63	18.78	18.72	20	2
10	16QAM	50	0	18.67	18.76	18.69		
10	64QAM	1	0	18.51	18.55	18.67		
10	64QAM	1	25	18.76	18.90	18.73	20	2
10	64QAM	1	49	18.51	18.62	18.72		
10	64QAM	25	0	17.45	17.60	17.44	19	3
10	64QAM	25	12	17.63	17.79	17.55		
10	64QAM	25	25	17.49	17.67	17.54		
10	64QAM	50	0	17.55	17.70	17.49	17	2
10	256QAM	1	0	15.17	15.37	15.46		
10	256QAM	1	25	15.48	15.47	15.36		
10	256QAM	1	49	15.15	15.28	15.46	17	3
10	256QAM	25	0	15.07	15.28	15.45		
10	256QAM	25	12	15.38	15.37	15.32		
10	256QAM	25	25	15.06	15.22	15.43	17	3
10	256QAM	50	0	15.08	15.28	15.41		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	20.52	20.57	20.61	22	0
5	QPSK	1	12	20.57	20.65	20.70		
5	QPSK	1	24	20.57	20.70	20.64		
5	QPSK	12	0	19.65	19.71	19.67	21	1
5	QPSK	12	7	19.67	19.77	19.73		
5	QPSK	12	13	19.66	19.80	19.76		
5	QPSK	25	0	19.62	19.77	19.72	21	1
5	16QAM	1	0	19.92	19.85	19.95		
5	16QAM	1	12	19.86	19.94	20.00		
5	16QAM	1	24	19.91	19.98	19.97	20	2
5	16QAM	12	0	18.66	18.71	18.68		
5	16QAM	12	7	18.70	18.84	18.74		
5	16QAM	12	13	18.69	18.81	18.81	20	2
5	16QAM	25	0	18.70	18.77	18.69		
5	64QAM	1	0	18.71	18.76	18.63		
5	64QAM	1	12	18.74	18.84	18.62	20	2
5	64QAM	1	24	18.71	18.87	18.62		



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5	64QAM	12	0	17.64	17.71	17.51	19	3
5	64QAM	12	7	17.69	17.81	17.55		
5	64QAM	12	13	17.62	17.81	17.60		
5	64QAM	25	0	17.56	17.72	17.52		
5	256QAM	1	0	15.46	15.47	15.53	17	2
5	256QAM	1	12	15.40	15.46	15.52		
5	256QAM	1	24	15.38	15.45	15.45		
5	256QAM	12	0	15.32	15.44	15.41	17	3
5	256QAM	12	7	15.31	15.44	15.34		
5	256QAM	12	13	15.26	15.44	15.31		
5	256QAM	25	0	15.20	15.38	15.24		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	20.55	20.59	20.64	22	0
3	QPSK	1	8	20.64	20.71	20.71		
3	QPSK	1	14	20.61	20.68	20.68		
3	QPSK	8	0	19.63	19.79	19.74	21	1
3	QPSK	8	4	19.69	19.79	19.75		
3	QPSK	8	7	19.65	19.81	19.73		
3	QPSK	15	0	19.68	19.75	19.78		
3	16QAM	1	0	19.88	19.89	20.04	21	1
3	16QAM	1	8	19.96	19.98	20.12		
3	16QAM	1	14	19.91	20.05	20.06		
3	16QAM	8	0	18.72	18.83	18.79	20	2
3	16QAM	8	4	18.71	18.88	18.81		
3	16QAM	8	7	18.74	18.86	18.82		
3	16QAM	15	0	18.67	18.81	18.81		
3	64QAM	1	0	18.67	18.67	18.63	20	2
3	64QAM	1	8	18.75	18.78	18.68		
3	64QAM	1	14	18.70	18.77	18.65		
3	64QAM	8	0	17.60	17.73	17.57	19	3
3	64QAM	8	4	17.59	17.73	17.57		
3	64QAM	8	7	17.63	17.73	17.60		
3	64QAM	15	0	17.60	17.74	17.53		
3	256QAM	1	0	15.48	15.59	15.64	17	2
3	256QAM	1	8	15.53	15.56	15.59		
3	256QAM	1	14	15.51	15.51	15.57		
3	256QAM	8	0	15.46	15.54	15.61	17	3
3	256QAM	8	4	15.55	15.52	15.58		
3	256QAM	8	7	15.53	15.59	15.63		
3	256QAM	15	0	15.46	15.50	15.54		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	20.52	20.53	20.55	22	0
1.4	QPSK	1	3	20.54	20.61	20.60		
1.4	QPSK	1	5	20.51	20.58	20.55		
1.4	QPSK	3	0	20.50	20.58	20.57		
1.4	QPSK	3	1	20.56	20.63	20.60		
1.4	QPSK	3	3	20.53	20.63	20.58		
1.4	QPSK	6	0	19.60	19.70	19.68	21	1
1.4	16QAM	1	0	19.82	19.77	19.83	21	1
1.4	16QAM	1	3	19.88	19.91	19.90		
1.4	16QAM	1	5	19.78	19.87	19.92		
1.4	16QAM	3	0	19.61	19.66	19.61		
1.4	16QAM	3	1	19.64	19.68	19.69		
1.4	16QAM	3	3	19.61	19.62	19.64		



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1.4	16QAM	6	0	18.70	18.75	18.75	20	2
1.4	64QAM	1	0	18.66	18.67	18.57	20	2
1.4	64QAM	1	3	18.74	18.83	18.61		
1.4	64QAM	1	5	18.58	18.76	18.56		
1.4	64QAM	3	0	18.66	18.71	18.50		
1.4	64QAM	3	1	18.71	18.76	18.60		
1.4	64QAM	3	3	18.65	18.74	18.55		
1.4	64QAM	6	0	17.53	17.59	17.42	19	3
1.4	256QAM	1	0	15.46	15.48	15.55	17	2
1.4	256QAM	1	3	15.44	15.51	15.46		
1.4	256QAM	1	5	15.44	15.52	15.55		
1.4	256QAM	3	0	15.52	15.50	15.53		
1.4	256QAM	3	1	15.42	15.51	15.46		
1.4	256QAM	3	3	15.45	15.49	15.53		
1.4	256QAM	6	0	15.45	15.50	15.55	17	3



<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.76	22.81	22.78		
15	QPSK	1	37	22.72	22.76	22.79	23.8	0
15	QPSK	1	74	22.71	22.72	22.77	22.8	1
15	QPSK	36	0	21.70	21.72	21.75		
15	QPSK	36	20	21.75	21.88	21.80		
15	QPSK	36	39	21.73	21.76	21.82	22.8	1
15	QPSK	75	0	21.71	21.83	21.74		
15	16QAM	1	0	21.99	22.01	21.98		
15	16QAM	1	37	22.14	22.04	22.08	22.8	1
15	16QAM	1	74	22.14	22.00	21.83	21.8	2
15	16QAM	36	0	20.75	20.71	20.87		
15	16QAM	36	20	20.85	20.69	20.78		
15	16QAM	36	39	20.87	20.79	20.75	21.8	2
15	16QAM	75	0	20.85	20.77	20.80		
15	64QAM	1	0	20.70	20.71	20.69		
15	64QAM	1	37	20.80	20.84	20.81	21.8	2
15	64QAM	1	74	20.80	20.78	20.70	20.8	3
15	64QAM	36	0	19.58	19.61	19.62		
15	64QAM	36	20	19.76	19.70	19.80		
15	64QAM	36	39	19.66	19.69	19.69	18.8	2
15	64QAM	75	0	19.67	19.60	19.69		
15	256QAM	1	0	17.69	17.80	17.68		
15	256QAM	1	37	17.74	17.77	17.71	18.8	3
15	256QAM	1	74	17.67	17.73	17.71		
15	256QAM	36	0	17.67	17.76	17.72		
15	256QAM	36	20	17.76	17.75	17.75	18.8	3
15	256QAM	36	39	17.66	17.72	17.71		
15	256QAM	75	0	17.74	17.79	17.74		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.64	22.56	22.55		
10	QPSK	1	25	22.65	22.58	22.56	23.8	0
10	QPSK	1	49	22.43	22.52	22.55	22.8	1
10	QPSK	25	0	21.45	21.57	21.56		
10	QPSK	25	12	21.79	21.64	21.74		
10	QPSK	25	25	21.67	21.60	21.53	22.8	1
10	QPSK	50	0	21.59	21.58	21.40		
10	16QAM	1	0	21.90	21.84	21.80		
10	16QAM	1	25	22.13	21.93	21.85	22.8	1
10	16QAM	1	49	22.09	21.93	21.90	21.8	2
10	16QAM	25	0	20.52	20.54	20.41		
10	16QAM	25	12	20.72	20.73	20.69		
10	16QAM	25	25	20.55	20.73	20.61	21.8	2
10	16QAM	50	0	20.66	20.66	20.54		
10	64QAM	1	0	20.63	20.76	20.73		
10	64QAM	1	25	20.74	20.79	20.78	21.8	2
10	64QAM	1	49	20.69	20.77	20.67		
10	64QAM	25	0	19.39	19.48	19.46		
10	64QAM	25	12	19.56	19.58	19.58	20.8	3
10	64QAM	25	25	19.46	19.56	19.54		
10	64QAM	50	0	19.49	19.48	19.48		



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10	256QAM	1	0	17.58	17.54	17.48	18.8	2
10	256QAM	1	25	17.57	17.54	17.46		
10	256QAM	1	49	17.64	17.50	17.50		
10	256QAM	25	0	17.59	17.50	17.48	18.8	3
10	256QAM	25	12	17.64	17.55	17.53		
10	256QAM	25	25	17.60	17.54	17.48		
10	256QAM	50	0	17.60	17.53	17.47	Tune-up limit (dBm)	MPR (dB)
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.49	22.47	22.55	23.8	0
5	QPSK	1	12	22.64	22.59	22.57		
5	QPSK	1	24	22.53	22.54	22.59		
5	QPSK	12	0	21.66	21.67	21.59	22.8	1
5	QPSK	12	7	21.69	21.79	21.63		
5	QPSK	12	13	21.66	21.78	21.62		
5	QPSK	25	0	21.92	21.63	21.64	22.8	1
5	16QAM	1	0	21.75	21.82	22.12		
5	16QAM	1	12	21.83	21.80	22.17		
5	16QAM	1	24	21.82	21.84	22.17	21.8	2
5	16QAM	12	0	20.72	20.69	20.56		
5	16QAM	12	7	20.79	20.82	20.64		
5	16QAM	12	13	20.69	20.71	20.68	21.8	2
5	16QAM	25	0	20.69	20.77	20.65		
5	64QAM	1	0	20.67	20.68	20.73		
5	64QAM	1	12	20.69	20.72	20.75	21.8	2
5	64QAM	1	24	20.60	20.73	20.71		
5	64QAM	12	0	19.60	19.58	19.55	20.8	3
5	64QAM	12	7	19.65	19.70	19.63		
5	64QAM	12	13	19.60	19.65	19.58		
5	64QAM	25	0	19.55	19.56	19.54	18.8	2
5	256QAM	1	0	17.43	17.47	17.52		
5	256QAM	1	12	17.41	17.39	17.46		
5	256QAM	1	24	17.47	17.44	17.47	18.8	3
5	256QAM	12	0	17.48	17.41	17.48		
5	256QAM	12	7	17.41	17.47	17.48		
5	256QAM	12	13	17.43	17.41	17.51	17.46	17.46
5	256QAM	25	0	17.46	17.46	17.49		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.60	22.64	22.44	23.8	0
3	QPSK	1	8	22.78	22.76	22.54		
3	QPSK	1	14	22.71	22.73	22.49		
3	QPSK	8	0	21.70	21.64	21.64	22.8	1
3	QPSK	8	4	21.71	21.79	21.72		
3	QPSK	8	7	21.71	21.73	21.68		
3	QPSK	15	0	21.72	21.68	21.67	22.8	1
3	16QAM	1	0	21.82	21.90	21.88		
3	16QAM	1	8	22.14	22.03	22.05		
3	16QAM	1	14	21.87	21.91	21.86	21.8	2
3	16QAM	8	0	20.75	20.60	20.58		
3	16QAM	8	4	20.83	20.86	20.63		
3	16QAM	8	7	20.79	20.66	20.71	21.8	2
3	16QAM	15	0	20.70	20.79	20.62		
3	64QAM	1	0	20.79	20.75	20.80		
3	64QAM	1	8	20.77	20.85	20.86	20.71	20.71
3	64QAM	1	14	20.71	20.80	20.71		



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3	64QAM	8	0	19.62	19.63	19.63	20.8	3
3	64QAM	8	4	19.64	19.70	19.63		
3	64QAM	8	7	19.58	19.67	19.62		
3	64QAM	15	0	19.58	19.58	19.60		
3	256QAM	1	0	17.56	17.56	17.39	18.8	2
3	256QAM	1	8	17.59	17.54	17.42		
3	256QAM	1	14	17.55	17.62	17.38		
3	256QAM	8	0	17.59	17.55	17.37	18.8	3
3	256QAM	8	4	17.55	17.58	17.44		
3	256QAM	8	7	17.59	17.63	17.35		
3	256QAM	15	0	17.53	17.55	17.38		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.58	22.48	22.37	23.8	0
1.4	QPSK	1	3	22.55	22.56	22.47		
1.4	QPSK	1	5	22.52	22.52	22.47		
1.4	QPSK	3	0	22.62	22.47	22.41		
1.4	QPSK	3	1	22.64	22.54	22.49		
1.4	QPSK	3	3	22.61	22.60	22.46		
1.4	QPSK	6	0	21.65	21.72	21.61	22.8	1
1.4	16QAM	1	0	21.62	22.00	21.48	22.8	1
1.4	16QAM	1	3	21.59	21.67	21.53		
1.4	16QAM	1	5	21.58	21.60	21.45		
1.4	16QAM	3	0	21.67	21.55	21.60		
1.4	16QAM	3	1	21.83	21.48	21.69		
1.4	16QAM	3	3	21.59	21.59	21.63		
1.4	16QAM	6	0	20.68	20.70	20.57	21.8	2
1.4	64QAM	1	0	20.68	20.58	20.57	21.8	2
1.4	64QAM	1	3	20.80	20.68	20.63		
1.4	64QAM	1	5	20.67	20.62	20.59		
1.4	64QAM	3	0	20.61	20.52	20.58		
1.4	64QAM	3	1	20.64	20.63	20.61		
1.4	64QAM	3	3	20.61	20.63	20.60		
1.4	64QAM	6	0	19.52	19.50	19.54	20.8	3
1.4	256QAM	1	0	17.56	17.45	17.30	18.8	2
1.4	256QAM	1	3	17.50	17.38	17.27		
1.4	256QAM	1	5	17.50	17.45	17.32		
1.4	256QAM	3	0	17.58	17.44	17.35		
1.4	256QAM	3	1	17.53	17.45	17.29		
1.4	256QAM	3	3	17.49	17.39	17.37		
1.4	256QAM	6	0	17.52	17.42	17.33	18.8	3



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		21.08		21.8	0
10	QPSK	1	25		21.04			
10	QPSK	1	49		20.94			
10	QPSK	25	0		20.01		20.8	1
10	QPSK	25	12		20.09			
10	QPSK	25	25		19.98			
10	QPSK	50	0		20.01		20.8	1
10	16QAM	1	0		20.42			
10	16QAM	1	25		20.41			
10	16QAM	1	49		20.35		19.8	2
10	16QAM	25	0		19.06			
10	16QAM	25	12		19.07			
10	16QAM	25	25		18.98		19.8	2
10	16QAM	50	0		18.99			
10	64QAM	1	0		18.99		19.8	2
10	64QAM	1	25		18.99			
10	64QAM	1	49		18.91			
10	64QAM	25	0		17.71		18.8	3
10	64QAM	25	12		17.82			
10	64QAM	25	25		17.70			
10	64QAM	50	0		17.75		16.8	2
10	256QAM	1	0		16.02			
10	256QAM	1	25		16.00			
10	256QAM	1	49		16.06		16.8	3
10	256QAM	25	0		15.98			
10	256QAM	25	12		16.00			
10	256QAM	25	25		15.98		16.8	3
10	256QAM	50	0		16.02			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	20.94	20.98	20.96	21.8	0
5	QPSK	1	12	21.05	21.07	21.05		
5	QPSK	1	24	21.03	20.91	20.88		
5	QPSK	12	0	20.06	20.09	20.10	20.8	1
5	QPSK	12	7	20.20	20.11	20.14		
5	QPSK	12	13	20.14	20.10	20.00		
5	QPSK	25	0	20.14	20.05	20.07	20.8	1
5	16QAM	1	0	20.26	20.30	20.31		
5	16QAM	1	12	20.34	20.36	20.33		
5	16QAM	1	24	20.35	20.27	20.23	19.8	2
5	16QAM	12	0	19.10	19.10	19.12		
5	16QAM	12	7	19.17	19.13	19.18		
5	16QAM	12	13	19.17	19.05	19.03	19.8	2
5	16QAM	25	0	19.15	19.10	19.08		
5	64QAM	1	0	18.92	18.95	19.00		
5	64QAM	1	12	19.01	19.01	19.09	19.8	2
5	64QAM	1	24	18.99	18.93	18.88		
5	64QAM	12	0	17.85	17.83	17.87		
5	64QAM	12	7	17.96	17.87	17.90	18.8	3
5	64QAM	12	13	17.91	17.84	17.79		
5	64QAM	25	0	17.83	17.77	17.82		



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5	256QAM	1	0	15.87	15.97	15.93	16.8	2
5	256QAM	1	12	15.86	15.90	15.95		
5	256QAM	1	24	15.84	15.92	15.87		
5	256QAM	12	0	15.91	15.97	15.87	16.8	3
5	256QAM	12	7	15.90	15.95	15.89		
5	256QAM	12	13	15.85	15.94	15.90		
5	256QAM	25	0	15.90	15.89	15.89		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	20.61	20.75	20.73	22	0
20	QPSK	1	49	20.60	20.57	20.59		
20	QPSK	1	99	20.28	20.41	20.38		
20	QPSK	50	0	19.65	19.69	19.81	21	1
20	QPSK	50	24	19.72	19.84	19.83		
20	QPSK	50	50	19.58	19.67	19.61		
20	QPSK	100	0	19.55	19.86	19.84	21	1
20	16QAM	1	0	19.92	19.80	20.27		
20	16QAM	1	49	20.20	20.19	20.10		
20	16QAM	1	99	19.65	19.72	20.07	20	2
20	16QAM	50	0	18.56	18.66	18.68		
20	16QAM	50	24	18.73	18.55	18.77		
20	16QAM	50	50	18.49	18.56	18.75	20	2
20	16QAM	100	0	18.62	18.60	18.80		
20	64QAM	1	0	18.58	18.69	18.96	20	2
20	64QAM	1	49	18.83	19.00	18.93		
20	64QAM	1	99	18.57	18.68	18.87		
20	64QAM	50	0	17.75	17.87	17.78	19	3
20	64QAM	50	24	17.85	17.86	17.75		
20	64QAM	50	50	17.69	17.82	17.74		
20	64QAM	100	0	17.77	17.85	17.77	17	2
20	256QAM	1	0	15.59	15.67	15.72		
20	256QAM	1	49	15.59	15.73	15.63		
20	256QAM	1	99	15.58	15.73	15.64	17	3
20	256QAM	50	0	15.57	15.71	15.67		
20	256QAM	50	24	15.60	15.72	15.67		
20	256QAM	50	50	15.57	15.69	15.67	17	3
20	256QAM	100	0	15.52	15.67	15.66		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	20.43	20.43	20.60	22	0
15	QPSK	1	37	20.57	20.51	20.66		
15	QPSK	1	74	20.25	20.37	20.55		
15	QPSK	36	0	19.69	19.68	19.75	21	1
15	QPSK	36	20	19.61	19.69	19.82		
15	QPSK	36	39	19.58	19.58	19.73		
15	QPSK	75	0	19.67	19.68	19.78	21	1
15	16QAM	1	0	19.78	19.85	20.09		
15	16QAM	1	37	19.77	19.77	19.81		
15	16QAM	1	74	19.67	19.64	19.97	20	2
15	16QAM	36	0	18.56	18.59	18.77		
15	16QAM	36	20	18.67	18.71	18.78		
15	16QAM	36	39	18.70	18.60	18.77	20	2
15	16QAM	75	0	18.70	18.59	18.80		
15	64QAM	1	0	18.77	18.90	18.95		
15	64QAM	1	37	18.90	18.94	18.92	20	2
15	64QAM	1	74	18.68	18.81	18.87		
15	64QAM	36	0	17.77	17.88	17.81	19	3
15	64QAM	36	20	17.83	17.93	17.85		
15	64QAM	36	39	17.73	17.85	17.77		
15	64QAM	75	0	17.81	17.90	17.79	19	3



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15	256QAM	1	0	15.33	15.40	15.57	17	2
15	256QAM	1	37	15.40	15.39	15.53		
15	256QAM	1	74	15.41	15.33	15.50		
15	256QAM	36	0	15.43	15.40	15.54	17	3
15	256QAM	36	20	15.35	15.41	15.53		
15	256QAM	36	39	15.43	15.37	15.56		
15	256QAM	75	0	15.43	15.39	15.51	Tune-up limit (dBm)	MPR (dB)
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	20.07	20.07	20.19	22	0
10	QPSK	1	25	20.31	20.30	20.36		
10	QPSK	1	49	20.06	20.04	20.08		
10	QPSK	25	0	19.39	19.36	19.50	21	1
10	QPSK	25	12	19.51	19.44	19.64		
10	QPSK	25	25	19.33	19.31	19.32		
10	QPSK	50	0	19.38	19.38	19.54	21	1
10	16QAM	1	0	19.71	19.83	19.77		
10	16QAM	1	25	19.91	19.94	20.15		
10	16QAM	1	49	19.73	19.75	19.87	20	2
10	16QAM	25	0	18.32	18.38	18.37		
10	16QAM	25	12	18.42	18.50	18.65		
10	16QAM	25	25	18.37	18.44	18.53	20	2
10	16QAM	50	0	18.52	18.41	18.52		
10	64QAM	1	0	18.43	18.58	18.48		
10	64QAM	1	25	18.81	18.94	18.72	20	2
10	64QAM	1	49	18.52	18.65	18.51		
10	64QAM	25	0	17.51	17.59	17.42		
10	64QAM	25	12	17.64	17.72	17.61	19	3
10	64QAM	25	25	17.53	17.61	17.50		
10	64QAM	50	0	17.55	17.65	17.54		
10	256QAM	1	0	15.01	15.03	15.17	17	2
10	256QAM	1	25	15.07	15.04	15.10		
10	256QAM	1	49	15.04	15.09	15.09		
10	256QAM	25	0	15.03	15.06	15.14	17	3
10	256QAM	25	12	15.02	15.07	15.18		
10	256QAM	25	25	15.06	15.07	15.17		
10	256QAM	50	0	15.07	15.05	15.10	Tune-up limit (dBm)	MPR (dB)
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	20.19	20.22	20.47	22	0
5	QPSK	1	12	20.32	20.43	20.56		
5	QPSK	1	24	20.29	20.39	20.44		
5	QPSK	12	0	19.48	19.39	19.56	21	1
5	QPSK	12	7	19.45	19.48	19.64		
5	QPSK	12	13	19.46	19.34	19.58		
5	QPSK	25	0	19.48	19.47	19.63	21	1
5	16QAM	1	0	19.38	19.40	19.48		
5	16QAM	1	12	19.46	19.49	19.44		
5	16QAM	1	24	19.42	19.43	19.45	20	2
5	16QAM	12	0	18.41	18.39	18.66		
5	16QAM	12	7	18.45	18.50	18.71		
5	16QAM	12	13	18.40	18.36	18.58	20	2
5	16QAM	25	0	18.54	18.43	18.55		
5	64QAM	1	0	18.64	18.83	18.68		
5	64QAM	1	12	18.71	18.79	18.64	20	2
5	64QAM	1	24	18.60	18.74	18.53		



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5	64QAM	12	0	17.63	17.71	17.60	19	3
5	64QAM	12	7	17.68	17.78	17.61		
5	64QAM	12	13	17.58	17.66	17.55		
5	64QAM	25	0	17.62	17.71	17.53		
5	256QAM	1	0	15.14	15.14	15.42	17	2
5	256QAM	1	12	15.10	15.21	15.45		
5	256QAM	1	24	15.15	15.15	15.45		
5	256QAM	12	0	15.14	15.20	15.43	17	3
5	256QAM	12	7	15.11	15.16	15.38		
5	256QAM	12	13	15.13	15.16	15.44		
5	256QAM	25	0	15.16	15.19	15.37		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	20.44	20.45	20.48	22	0
3	QPSK	1	8	20.45	20.41	20.54		
3	QPSK	1	14	20.32	20.31	20.50		
3	QPSK	8	0	19.50	19.39	19.57	21	1
3	QPSK	8	4	19.51	19.48	19.55		
3	QPSK	8	7	19.42	19.39	19.50		
3	QPSK	15	0	19.45	19.51	19.48		
3	16QAM	1	0	19.50	19.92	20.10	21	1
3	16QAM	1	8	19.57	19.95	20.08		
3	16QAM	1	14	19.46	19.46	19.94		
3	16QAM	8	0	18.64	18.54	18.68	20	2
3	16QAM	8	4	18.65	18.54	18.68		
3	16QAM	8	7	18.58	18.45	18.62		
3	16QAM	15	0	18.64	18.48	18.56		
3	64QAM	1	0	18.72	18.86	18.73	20	2
3	64QAM	1	8	18.82	18.89	18.74		
3	64QAM	1	14	18.67	18.77	18.59		
3	64QAM	8	0	17.72	17.70	17.56	19	3
3	64QAM	8	4	17.68	17.74	17.56		
3	64QAM	8	7	17.62	17.68	17.55		
3	64QAM	15	0	17.64	17.68	17.50		
3	256QAM	1	0	15.43	15.36	15.39	17	2
3	256QAM	1	8	15.41	15.41	15.39		
3	256QAM	1	14	15.44	15.42	15.47		
3	256QAM	8	0	15.41	15.37	15.44	17	3
3	256QAM	8	4	15.40	15.38	15.39		
3	256QAM	8	7	15.44	15.37	15.46		
3	256QAM	15	0	15.40	15.39	15.43		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	20.25	20.33	20.43	22	0
1.4	QPSK	1	3	20.36	20.36	20.52		
1.4	QPSK	1	5	20.26	20.29	20.41		
1.4	QPSK	3	0	20.27	20.39	20.44		
1.4	QPSK	3	1	20.35	20.36	20.45		
1.4	QPSK	3	3	20.29	20.35	20.45	21	1
1.4	QPSK	6	0	19.43	19.42	19.46		
1.4	16QAM	1	0	19.62	19.61	19.68	21	1
1.4	16QAM	1	3	19.69	19.67	19.81		
1.4	16QAM	1	5	19.59	19.59	19.71		
1.4	16QAM	3	0	19.36	19.44	19.50		
1.4	16QAM	3	1	19.44	19.49	19.55		
1.4	16QAM	3	3	19.40	19.42	19.51		



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1.4	16QAM	6	0	18.50	18.47	18.52	20	2
1.4	64QAM	1	0	18.62	18.86	18.65	20	2
1.4	64QAM	1	3	18.73	18.87	18.68		
1.4	64QAM	1	5	18.63	18.79	18.66		
1.4	64QAM	3	0	18.54	18.73	18.55		
1.4	64QAM	3	1	18.65	18.78	18.59		
1.4	64QAM	3	3	18.62	18.70	18.58		
1.4	64QAM	6	0	17.55	17.64	17.46	19	3
1.4	256QAM	1	0	15.19	15.24	15.42	17	2
1.4	256QAM	1	3	15.23	15.27	15.39		
1.4	256QAM	1	5	15.25	15.27	15.42		
1.4	256QAM	3	0	15.19	15.31	15.43		
1.4	256QAM	3	1	15.15	15.33	15.43		
1.4	256QAM	3	3	15.15	15.26	15.41		
1.4	256QAM	6	0	15.19	15.26	15.39	17	3



<LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	23.8	0
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.55	23.65	23.60		
20	QPSK	1	49	23.53	23.50	23.43	22.8	1
20	QPSK	1	99	23.49	23.45	23.38		
20	QPSK	50	0	22.65	22.58	22.62		
20	QPSK	50	24	22.66	22.67	22.55	22.8	1
20	QPSK	50	50	22.58	22.46	22.43		
20	QPSK	100	0	22.53	22.55	22.40		
20	16QAM	1	0	22.55	22.63	22.76	22.8	1
20	16QAM	1	49	22.61	22.68	22.65		
20	16QAM	1	99	22.77	22.75	22.80		
20	16QAM	50	0	21.61	21.60	21.59	21.8	2
20	16QAM	50	24	21.66	21.51	21.50		
20	16QAM	50	50	21.53	21.47	21.48		
20	16QAM	100	0	21.50	21.43	21.51	21.8	2
20	64QAM	1	0	21.76	21.62	21.74		
20	64QAM	1	49	21.69	21.71	21.57		
20	64QAM	1	99	21.64	21.65	21.67	20.8	3
20	64QAM	50	0	20.63	20.71	20.66		
20	64QAM	50	24	20.71	20.59	20.53		
20	64QAM	50	50	20.61	20.53	20.55	20.8	3
20	64QAM	100	0	20.63	20.51	20.47		
20	256QAM	1	0	18.51	18.65	18.54	18.8	2
20	256QAM	1	49	18.47	18.60	18.60		
20	256QAM	1	99	18.45	18.65	18.53		
20	256QAM	50	0	18.49	18.56	18.56	18.8	3
20	256QAM	50	24	18.48	18.63	18.55		
20	256QAM	50	50	18.50	18.63	18.51		
20	256QAM	100	0	18.54	18.56	18.52	18.8	3
Channel				133197	133297	133397		
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.55	23.60	23.44	23.8	0
15	QPSK	1	37	23.44	23.49	23.38		
15	QPSK	1	74	23.39	23.42	23.41		
15	QPSK	36	0	22.61	22.57	22.59	22.8	1
15	QPSK	36	20	22.58	22.67	22.54		
15	QPSK	36	39	22.48	22.50	22.47		
15	QPSK	75	0	22.58	22.53	22.52	22.8	1
15	16QAM	1	0	22.55	22.57	22.76		
15	16QAM	1	37	22.49	22.71	22.69		
15	16QAM	1	74	22.74	22.65	22.71	21.8	2
15	16QAM	36	0	21.62	21.60	21.58		
15	16QAM	36	20	21.65	21.62	21.49		
15	16QAM	36	39	21.59	21.49	21.56	21.8	2
15	16QAM	75	0	21.56	21.47	21.37		
15	64QAM	1	0	21.43	21.69	21.74		
15	64QAM	1	37	21.68	21.42	21.72	21.8	2
15	64QAM	1	74	21.72	21.63	21.65		
15	64QAM	36	0	20.63	20.71	20.60		
15	64QAM	36	20	20.68	20.67	20.62	20.8	3
15	64QAM	36	39	20.61	20.58	20.53		
15	64QAM	75	0	20.59	20.52	20.49		



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15	256QAM	1	0	18.46	18.52	18.35	18.8	2
15	256QAM	1	37	18.51	18.57	18.35		
15	256QAM	1	74	18.46	18.52	18.34		
15	256QAM	36	0	18.51	18.50	18.41	18.8	3
15	256QAM	36	20	18.49	18.51	18.38		
15	256QAM	36	39	18.55	18.55	18.35		
15	256QAM	75	0	18.54	18.51	18.35	Tune-up limit (dBm)	MPR (dB)
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.29	23.31	23.40	23.8	0
10	QPSK	1	25	23.22	23.35	23.18		
10	QPSK	1	49	23.27	23.34	23.20		
10	QPSK	25	0	22.36	22.43	22.33	22.8	1
10	QPSK	25	12	22.43	22.42	22.32		
10	QPSK	25	25	22.26	22.31	22.29		
10	QPSK	50	0	22.32	22.29	22.16	22.8	1
10	16QAM	1	0	22.54	22.50	22.59		
10	16QAM	1	25	22.59	22.62	22.54		
10	16QAM	1	49	22.79	22.74	22.51	21.8	2
10	16QAM	25	0	21.34	21.47	21.32		
10	16QAM	25	12	21.37	21.45	21.25		
10	16QAM	25	25	21.24	21.36	21.38	21.8	2
10	16QAM	50	0	21.33	21.40	21.18		
10	64QAM	1	0	21.55	21.60	21.69		
10	64QAM	1	25	21.51	21.55	21.49	21.8	2
10	64QAM	1	49	21.62	21.73	21.58		
10	64QAM	25	0	20.33	20.41	20.37	20.8	3
10	64QAM	25	12	20.43	20.52	20.30		
10	64QAM	25	25	20.40	20.39	20.35		
10	64QAM	50	0	20.33	20.43	20.29	18.8	2
10	256QAM	1	0	18.20	18.27	18.30		
10	256QAM	1	25	18.28	18.23	18.40		
10	256QAM	1	49	18.21	18.28	18.39	18.8	3
10	256QAM	25	0	18.28	18.28	18.39		
10	256QAM	25	12	18.29	18.31	18.35		
10	256QAM	25	25	18.27	18.31	18.36	18.8	3
10	256QAM	50	0	18.27	18.27	18.33		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.27	23.17	23.10		
5	QPSK	1	12	23.33	23.36	23.25	23.8	0
5	QPSK	1	24	23.31	23.41	23.23		
5	QPSK	12	0	22.27	22.40	22.19	22.8	1
5	QPSK	12	7	22.39	22.43	22.38		
5	QPSK	12	13	22.40	22.48	22.31		
5	QPSK	25	0	22.38	22.39	22.32	22.8	1
5	16QAM	1	0	22.62	22.57	22.47		
5	16QAM	1	12	22.67	22.64	22.69		
5	16QAM	1	24	22.56	22.58	22.54	21.8	2
5	16QAM	12	0	21.31	21.39	21.28		
5	16QAM	12	7	21.43	21.49	21.47		
5	16QAM	12	13	21.57	21.47	21.41	21.8	2
5	16QAM	25	0	21.41	21.42	21.36		
5	64QAM	1	0	21.50	21.47	21.43		
5	64QAM	1	12	21.52	21.53	21.56	21.8	2
5	64QAM	1	24	21.56	21.66	21.51		



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5	64QAM	12	0	20.32	20.36	20.28	20.8	3
5	64QAM	12	7	20.47	20.51	20.41		
5	64QAM	12	13	20.43	20.44	20.35		
5	64QAM	25	0	20.38	20.41	20.32		
5	256QAM	1	0	18.21	18.15	18.09	18.8	2
5	256QAM	1	12	18.26	18.15	18.01		
5	256QAM	1	24	18.21	18.11	18.10		
5	256QAM	12	0	18.23	18.08	18.01	18.8	3
5	256QAM	12	7	18.22	18.14	18.04		
5	256QAM	12	13	18.20	18.14	18.10		
5	256QAM	25	0	18.20	18.17	18.05		

LAT Full Power Mode
<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	23.8	0
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	22.98	23.07	23.05	23.8	0
20	QPSK	1	49	22.91	23.04	23.01		
20	QPSK	1	99	22.95	23.02	22.98		
20	QPSK	50	0	22.01	22.03	22.01	22.8	1
20	QPSK	50	24	22.09	22.18	22.15		
20	QPSK	50	50	22.05	22.17	22.09		
20	QPSK	100	0	22.02	22.04	22.03	22.8	1
20	16QAM	1	0	22.07	22.19	22.22		
20	16QAM	1	49	21.95	22.02	22.23		
20	16QAM	1	99	21.91	21.94	22.17	21.8	2
20	16QAM	50	0	20.98	21.02	21.06		
20	16QAM	50	24	21.15	21.00	20.94		
20	16QAM	50	50	21.12	21.08	21.08	21.8	2
20	16QAM	100	0	20.96	21.03	20.97		
20	64QAM	1	0	21.03	21.11	21.06		
20	64QAM	1	49	21.06	21.12	21.06	21.8	2
20	64QAM	1	99	20.99	21.07	21.05		
20	64QAM	50	0	19.84	19.94	19.87		
20	64QAM	50	24	20.01	19.99	19.96	20.8	3
20	64QAM	50	50	19.95	20.04	20.00		
20	64QAM	100	0	19.92	19.93	19.91		
20	256QAM	1	0	17.98	18.07	18.05	18.8	2
20	256QAM	1	49	17.91	18.04	18.01		
20	256QAM	1	99	17.95	18.02	17.98		
20	256QAM	50	0	18.01	18.03	18.01	18.8	3
20	256QAM	50	24	18.09	18.08	18.05		
20	256QAM	50	50	18.05	18.07	18.09		
20	256QAM	100	0	18.02	18.04	18.03	18.8	3
20	256QAM	100	0	18.02	18.04	18.03		
Channel				18675	18900	19125	23.8	0
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	22.76	23.05	23.02	23.8	0
15	QPSK	1	37	22.97	23.06	23.04		
15	QPSK	1	74	22.96	23.06	22.98		
15	QPSK	36	0	21.95	22.02	21.99	22.8	1
15	QPSK	36	20	22.12	22.10	22.19		
15	QPSK	36	39	22.06	22.11	22.13		
15	QPSK	75	0	22.01	22.07	22.14	22.8	1
15	16QAM	1	0	22.33	22.45	22.31		
15	16QAM	1	37	22.40	22.45	22.40		
15	16QAM	1	74	22.32	22.35	22.21	21.8	2
15	16QAM	36	0	20.90	21.08	21.03		
15	16QAM	36	20	21.10	21.09	21.15		
15	16QAM	36	39	21.08	21.24	21.16	21.8	2
15	16QAM	75	0	21.03	20.95	21.14		
15	64QAM	1	0	20.83	21.09	21.10		
15	64QAM	1	37	21.06	21.21	21.11	21.8	2
15	64QAM	1	74	20.96	21.13	21.05		
15	64QAM	36	0	19.88	19.98	19.88		
15	64QAM	36	20	19.99	20.06	20.03	20.8	3
15	64QAM	36	39	19.97	20.07	19.98		



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15	64QAM	75	0	19.92	19.94	19.95		
15	256QAM	1	0	17.91	17.99	18.02	18.8	2
15	256QAM	1	37	17.89	18.01	17.93		
15	256QAM	1	74	17.87	17.97	17.91		
15	256QAM	36	0	17.92	17.97	17.91	18.8	3
15	256QAM	36	20	18.05	18.07	18.05		
15	256QAM	36	39	18.01	18.05	18.02		
15	256QAM	75	0	17.93	17.95	18.03		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	22.48	22.78	22.99	23.8	0
10	QPSK	1	25	22.81	22.81	22.91		
10	QPSK	1	49	22.47	22.49	22.73		
10	QPSK	25	0	21.78	21.80	21.91	22.8	1
10	QPSK	25	12	21.91	21.94	21.94		
10	QPSK	25	25	21.77	21.91	21.91		
10	QPSK	50	0	21.83	21.93	21.90		
10	16QAM	1	0	22.05	22.26	22.59	22.8	1
10	16QAM	1	25	22.42	22.50	22.64		
10	16QAM	1	49	22.14	22.22	22.51		
10	16QAM	25	0	20.76	20.96	20.94	21.8	2
10	16QAM	25	12	20.97	20.92	20.88		
10	16QAM	25	25	20.79	20.88	20.88		
10	16QAM	50	0	20.84	21.00	20.83		
10	64QAM	1	0	20.56	20.70	20.96	21.8	2
10	64QAM	1	25	20.98	21.07	21.02		
10	64QAM	1	49	20.68	20.78	20.98		
10	64QAM	25	0	19.64	19.81	19.71	20.8	3
10	64QAM	25	12	19.82	19.90	19.77		
10	64QAM	25	25	19.69	19.85	19.73		
10	64QAM	50	0	19.71	19.78	19.71		
10	256QAM	1	0	17.84	17.95	17.96	18.8	2
10	256QAM	1	25	17.88	17.91	17.84		
10	256QAM	1	49	17.82	17.97	17.84		
10	256QAM	25	0	17.84	17.97	17.87	18.8	3
10	256QAM	25	12	18.02	18.05	17.95		
10	256QAM	25	25	18.01	18.04	18.02		
10	256QAM	50	0	17.92	17.87	18.01		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	22.78	22.86	22.80	23.8	0
5	QPSK	1	12	22.87	22.96	23.05		
5	QPSK	1	24	22.82	22.85	22.91		
5	QPSK	12	0	21.93	21.94	21.93	22.8	1
5	QPSK	12	7	21.88	22.03	21.99		
5	QPSK	12	13	21.82	22.04	21.95		
5	QPSK	25	0	21.85	21.96	21.95		
5	16QAM	1	0	21.99	22.03	22.38	22.8	1
5	16QAM	1	12	21.94	22.10	22.48		
5	16QAM	1	24	21.85	21.97	22.37		
5	16QAM	12	0	20.92	21.08	21.06	21.8	2
5	16QAM	12	7	21.04	21.11	20.98		
5	16QAM	12	13	20.88	21.05	20.96		
5	16QAM	25	0	20.90	21.02	20.94		
5	64QAM	1	0	20.91	20.98	20.81	21.8	2
5	64QAM	1	12	20.93	21.03	20.91		



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5	64QAM	1	24	20.81	20.93	20.82		
5	64QAM	12	0	19.88	19.96	19.84	20.8	3
5	64QAM	12	7	19.87	20.02	19.82		
5	64QAM	12	13	19.77	19.89	19.80		
5	64QAM	25	0	19.76	19.84	19.74		
5	256QAM	1	0	17.76	17.92	17.95	18.8	2
5	256QAM	1	12	17.86	17.86	17.84		
5	256QAM	1	24	17.81	17.93	17.75		
5	256QAM	12	0	17.74	17.91	17.78	18.8	3
5	256QAM	12	7	17.98	17.99	17.87		
5	256QAM	12	13	17.95	17.98	18.00		
5	256QAM	25	0	17.84	17.81	17.91		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	22.83	22.91	22.90	23.8	0
3	QPSK	1	8	22.84	22.96	22.89		
3	QPSK	1	14	22.78	22.87	22.79		
3	QPSK	8	0	21.93	21.93	22.00	22.8	1
3	QPSK	8	4	21.90	22.08	22.05		
3	QPSK	8	7	21.86	22.03	21.95		
3	QPSK	15	0	21.84	21.96	22.06		
3	16QAM	1	0	21.89	21.92	21.94	22.8	1
3	16QAM	1	8	21.95	22.04	21.95		
3	16QAM	1	14	21.85	21.86	21.85		
3	16QAM	8	0	20.95	21.12	21.18	21.8	2
3	16QAM	8	4	20.92	21.20	21.17		
3	16QAM	8	7	20.87	21.11	21.08		
3	16QAM	15	0	20.88	21.06	21.11		
3	64QAM	1	0	20.92	21.00	20.93	21.8	2
3	64QAM	1	8	21.00	21.08	20.98		
3	64QAM	1	14	20.85	21.00	20.84		
3	64QAM	8	0	19.85	19.94	19.88	20.8	3
3	64QAM	8	4	19.84	19.98	19.88		
3	64QAM	8	7	19.78	19.95	19.78		
3	64QAM	15	0	19.81	19.89	19.82		
3	256QAM	1	0	17.68	17.90	17.94	18.8	2
3	256QAM	1	8	17.80	17.85	17.81		
3	256QAM	1	14	17.75	17.85	17.65		
3	256QAM	8	0	17.66	17.87	17.73	18.8	3
3	256QAM	8	4	17.91	17.99	17.83		
3	256QAM	8	7	17.87	17.90	17.96		
3	256QAM	15	0	17.83	17.73	17.82		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	22.70	22.87	22.77	23.8	0
1.4	QPSK	1	3	22.76	22.86	22.84		
1.4	QPSK	1	5	22.69	22.78	22.77		
1.4	QPSK	3	0	22.73	22.86	22.81		
1.4	QPSK	3	1	22.73	22.87	22.86		
1.4	QPSK	3	3	22.67	22.77	22.80	22.8	1
1.4	QPSK	6	0	21.85	21.99	21.97		
1.4	16QAM	1	0	21.99	22.07	22.08	22.8	1
1.4	16QAM	1	3	22.02	22.21	22.49		
1.4	16QAM	1	5	21.96	22.07	22.35		
1.4	16QAM	3	0	21.91	21.99	21.83		
1.4	16QAM	3	1	21.96	22.03	21.86		

1.4	16QAM	3	3	21.86	21.98	21.85		
1.4	16QAM	6	0	20.90	20.98	20.95	21.8	2
1.4	64QAM	1	0	20.84	20.94	20.81	21.8	2
1.4	64QAM	1	3	20.88	21.03	20.88		
1.4	64QAM	1	5	20.81	20.94	20.80		
1.4	64QAM	3	0	20.83	20.95	20.80		
1.4	64QAM	3	1	20.86	20.99	20.83		
1.4	64QAM	3	3	20.81	20.90	20.78		
1.4	64QAM	6	0	19.72	19.83	19.69	20.8	3
1.4	256QAM	1	0	17.58	17.89	17.94	18.8	0
1.4	256QAM	1	3	17.80	17.79	17.72		
1.4	256QAM	1	5	17.72	17.77	17.55		
1.4	256QAM	3	0	17.65	17.84	17.65		
1.4	256QAM	3	1	17.85	17.92	17.76		
1.4	256QAM	3	3	17.79	17.82	17.91		
1.4	256QAM	6	0	17.81	17.73	17.79	18.8	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	22.68	22.84	22.77	23.8	0
20	QPSK	1	49	22.79	22.80	22.81		
20	QPSK	1	99	22.51	22.54	22.57		
20	QPSK	50	0	21.77	21.85	21.85	22.8	1
20	QPSK	50	24	21.94	21.97	21.93		
20	QPSK	50	50	21.83	21.86	21.87		
20	QPSK	100	0	21.85	21.93	21.91	22.8	1
20	16QAM	1	0	22.19	21.93	21.91		
20	16QAM	1	49	22.41	22.44	22.14		
20	16QAM	1	99	22.10	22.16	21.83	21.8	2
20	16QAM	50	0	20.72	20.82	20.90		
20	16QAM	50	24	20.94	20.96	20.96		
20	16QAM	50	50	20.87	20.93	20.91	21.8	2
20	16QAM	100	0	20.80	20.84	20.81		
20	64QAM	1	0	20.51	20.93	21.02	21.8	2
20	64QAM	1	49	20.97	21.21	21.25		
20	64QAM	1	99	20.86	20.96	20.94		
20	64QAM	50	0	19.79	20.04	20.04	20.8	3
20	64QAM	50	24	20.05	20.17	20.11		
20	64QAM	50	50	19.97	20.08	20.10		
20	64QAM	100	0	19.90	19.99	19.99	18.8	2
20	256QAM	1	0	17.68	17.84	17.77		
20	256QAM	1	49	17.79	17.80	17.81		
20	256QAM	1	99	17.51	17.54	17.57	18.8	3
20	256QAM	50	0	17.77	17.85	17.85		
20	256QAM	50	24	17.84	17.90	17.83		
20	256QAM	50	50	17.83	17.86	17.87	18.8	3
20	256QAM	100	0	17.85	17.83	17.81		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	22.72	22.78	22.75	23.8	0
15	QPSK	1	37	22.83	22.82	22.78		
15	QPSK	1	74	22.61	22.58	22.69		
15	QPSK	36	0	21.81	21.95	21.81	22.8	1
15	QPSK	36	20	21.95	22.02	22.02		
15	QPSK	36	39	21.78	21.88	21.92		
15	QPSK	75	0	21.90	21.82	21.95	22.8	1
15	16QAM	1	0	21.81	22.03	22.38		
15	16QAM	1	37	22.04	22.17	22.10		
15	16QAM	1	74	21.78	21.95	21.98	21.8	2
15	16QAM	36	0	20.76	20.86	20.94		
15	16QAM	36	20	20.90	21.02	21.02		
15	16QAM	36	39	20.79	20.92	20.95	21.8	2
15	16QAM	75	0	20.94	20.88	21.01		
15	64QAM	1	0	20.61	21.11	21.01		
15	64QAM	1	37	21.02	21.25	21.20	21.8	2
15	64QAM	1	74	20.97	21.04	21.05		
15	64QAM	36	0	19.72	20.08	20.07		
15	64QAM	36	20	19.86	20.21	20.17	20.8	3
15	64QAM	36	39	19.97	20.12	20.05		
15	64QAM	75	0	19.77	20.05	20.08		



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15	256QAM	1	0	17.63	17.74	17.77	18.8	2
15	256QAM	1	37	17.71	17.70	17.73		
15	256QAM	1	74	17.45	17.47	17.49		
15	256QAM	36	0	17.77	17.77	17.76	18.8	3
15	256QAM	36	20	17.74	17.85	17.76		
15	256QAM	36	39	17.74	17.84	17.84		
15	256QAM	75	0	17.76	17.81	17.71	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	22.34	22.31	22.51	23.8	0
10	QPSK	1	25	22.57	22.70	22.75		
10	QPSK	1	49	22.29	22.34	22.39		
10	QPSK	25	0	21.64	21.60	21.70	22.8	1
10	QPSK	25	12	21.72	21.82	21.80		
10	QPSK	25	25	21.55	21.69	21.61		
10	QPSK	50	0	21.67	21.75	21.70	22.8	1
10	16QAM	1	0	21.82	21.92	21.87		
10	16QAM	1	25	22.25	22.19	22.04		
10	16QAM	1	49	21.64	21.78	21.71	21.8	2
10	16QAM	25	0	20.47	20.56	20.73		
10	16QAM	25	12	20.68	20.76	20.67		
10	16QAM	25	25	20.55	20.63	20.66	21.8	2
10	16QAM	50	0	20.64	20.71	20.66		
10	64QAM	1	0	20.42	20.73	20.72		
10	64QAM	1	25	20.94	21.03	20.97	21.8	2
10	64QAM	1	49	20.65	20.80	20.76		
10	64QAM	25	0	19.59	19.86	19.83	20.8	3
10	64QAM	25	12	19.77	20.02	19.96		
10	64QAM	25	25	19.73	19.87	19.81		
10	64QAM	50	0	19.62	19.91	19.87	18.8	2
10	256QAM	1	0	17.57	17.70	17.73		
10	256QAM	1	25	17.62	17.67	17.68		
10	256QAM	1	49	17.45	17.41	17.39	18.8	3
10	256QAM	25	0	17.74	17.71	17.73		
10	256QAM	25	12	17.70	17.84	17.75		
10	256QAM	25	25	17.71	17.76	17.79	18.8	3
10	256QAM	50	0	17.66	17.77	17.68		
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.68	22.68	22.54	23.8	0
5	QPSK	1	12	22.69	22.78	22.74		
5	QPSK	1	24	22.61	22.64	22.62		
5	QPSK	12	0	21.66	21.73	21.76	22.8	1
5	QPSK	12	7	21.67	21.85	21.81		
5	QPSK	12	13	21.67	21.75	21.73		
5	QPSK	25	0	21.63	21.79	21.76	22.8	1
5	16QAM	1	0	21.62	21.34	21.62		
5	16QAM	1	12	21.77	21.85	21.74		
5	16QAM	1	24	21.59	21.62	21.55	21.8	2
5	16QAM	12	0	20.73	20.86	20.83		
5	16QAM	12	7	20.76	20.90	20.92		
5	16QAM	12	13	20.64	20.85	20.79	21.8	2
5	16QAM	25	0	20.70	20.81	20.74		
5	64QAM	1	0	20.61	21.05	20.70		
5	64QAM	1	12	20.74	21.13	20.72	21.8	2
5	64QAM	1	24	20.68	21.02	20.65		



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5	64QAM	12	0	19.57	19.99	19.82	20.8	3
5	64QAM	12	7	19.65	20.07	19.63		
5	64QAM	12	13	19.73	20.01	19.54		
5	64QAM	25	0	19.49	19.98	19.48		
5	256QAM	1	0	17.48	17.67	17.65	18.8	2
5	256QAM	1	12	17.62	17.66	17.65		
5	256QAM	1	24	17.36	17.34	17.32		
5	256QAM	12	0	17.66	17.66	17.69	18.8	3
5	256QAM	12	7	17.64	17.79	17.67		
5	256QAM	12	13	17.68	17.74	17.74		
5	256QAM	25	0	17.64	17.77	17.61		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	22.56	22.79	22.73	23.8	0
3	QPSK	1	8	22.79	22.80	22.82		
3	QPSK	1	14	22.52	22.70	22.64		
3	QPSK	8	0	21.72	21.79	21.79	22.8	1
3	QPSK	8	4	21.74	21.84	21.84		
3	QPSK	8	7	21.61	21.82	21.79		
3	QPSK	15	0	21.70	21.81	21.77		
3	16QAM	1	0	22.21	22.27	22.22	22.8	1
3	16QAM	1	8	22.20	22.39	22.32		
3	16QAM	1	14	22.04	22.24	22.20		
3	16QAM	8	0	20.81	20.90	20.91	21.8	2
3	16QAM	8	4	20.73	20.90	20.87		
3	16QAM	8	7	20.75	20.87	20.84		
3	16QAM	15	0	20.78	20.86	20.76		
3	64QAM	1	0	20.63	21.14	20.91	21.8	2
3	64QAM	1	8	20.77	21.16	20.97		
3	64QAM	1	14	20.73	21.07	20.95		
3	64QAM	8	0	19.58	20.05	19.91	20.8	3
3	64QAM	8	4	19.63	20.01	19.97		
3	64QAM	8	7	19.57	20.02	19.79		
3	64QAM	15	0	19.58	20.02	19.79		
3	256QAM	1	0	17.38	17.65	17.63	18.8	2
3	256QAM	1	8	17.54	17.57	17.64		
3	256QAM	1	14	17.26	17.32	17.25		
3	256QAM	8	0	17.65	17.62	17.69	18.8	3
3	256QAM	8	4	17.64	17.76	17.60		
3	256QAM	8	7	17.63	17.67	17.65		
3	256QAM	15	0	17.64	17.77	17.56		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	22.53	22.66	22.62	23.8	0
1.4	QPSK	1	3	22.58	22.71	22.69		
1.4	QPSK	1	5	22.47	22.62	22.62		
1.4	QPSK	3	0	22.63	22.72	22.67		
1.4	QPSK	3	1	22.60	22.72	22.75		
1.4	QPSK	3	3	22.54	22.63	22.67	22.8	1
1.4	16QAM	1	0	22.07	21.90	21.80	22.8	1
1.4	16QAM	1	3	22.23	21.91	21.91		
1.4	16QAM	1	5	22.00	21.84	21.91		
1.4	16QAM	3	0	21.74	21.85	21.90		
1.4	16QAM	3	1	21.80	21.85	21.85		
1.4	16QAM	3	3	21.68	21.79	21.61		



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1.4	16QAM	6	0	20.69	20.89	20.75	21.8	2
1.4	64QAM	1	0	20.87	21.07	20.64	21.8	2
1.4	64QAM	1	3	20.94	21.07	20.71		
1.4	64QAM	1	5	20.81	21.02	20.63		
1.4	64QAM	3	0	20.75	21.02	20.62		
1.4	64QAM	3	1	20.78	21.07	20.66		
1.4	64QAM	3	3	20.72	21.01	20.58		
1.4	64QAM	6	0	19.51	19.89	19.76	20.8	3
1.4	256QAM	1	0	17.31	17.55	17.63	18.8	0
1.4	256QAM	1	3	17.44	17.55	17.60		
1.4	256QAM	1	5	17.19	17.28	17.19		
1.4	256QAM	3	0	17.65	17.62	17.61		
1.4	256QAM	3	1	17.59	17.70	17.52		
1.4	256QAM	3	3	17.57	17.57	17.65		
1.4	256QAM	6	0	17.62	17.68	17.49	18.8	0



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.89	22.91	22.91	23.8	0
10	QPSK	1	25	22.92	22.89	22.93		
10	QPSK	1	49	22.97	22.84	22.95		
10	QPSK	25	0	21.91	21.92	21.95	22.8	1
10	QPSK	25	12	21.99	21.91	21.96		
10	QPSK	25	25	21.95	21.87	21.96		
10	QPSK	50	0	21.92	21.84	21.90	22.8	1
10	16QAM	1	0	22.25	21.90	21.89		
10	16QAM	1	25	22.11	22.01	21.87		
10	16QAM	1	49	22.17	22.05	22.39	21.8	2
10	16QAM	25	0	20.93	20.97	20.93		
10	16QAM	25	12	21.02	20.82	20.95		
10	16QAM	25	25	20.95	20.97	20.96	21.8	2
10	16QAM	50	0	20.92	20.76	20.82		
10	64QAM	1	0	21.01	20.99	20.93		
10	64QAM	1	25	21.03	21.04	20.97	21.8	2
10	64QAM	1	49	20.70	20.96	20.95		
10	64QAM	25	0	19.76	19.78	19.83	20.8	3
10	64QAM	25	12	19.84	19.82	19.86		
10	64QAM	25	25	19.80	19.85	19.84		
10	64QAM	50	0	19.76	19.75	19.72	18.8	2
10	256QAM	1	0	17.89	17.91	17.91		
10	256QAM	1	25	17.92	17.89	17.86		
10	256QAM	1	49	17.87	17.84	17.81	18.8	3
10	256QAM	25	0	17.91	17.90	17.82		
10	256QAM	25	12	17.89	17.91	17.88		
10	256QAM	25	25	17.84	17.87	17.85	18.8	3
10	256QAM	50	0	17.90	17.84	17.90		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.75	22.81	22.72	23.8	0
5	QPSK	1	12	22.93	22.87	22.93		
5	QPSK	1	24	22.79	22.78	22.84		
5	QPSK	12	0	21.94	21.87	21.87	22.8	1
5	QPSK	12	7	22.02	21.96	21.86		
5	QPSK	12	13	21.95	22.00	21.90		
5	QPSK	25	0	21.97	21.96	21.88	22.8	1
5	16QAM	1	0	22.10	21.92	22.03		
5	16QAM	1	12	22.09	21.95	21.91		
5	16QAM	1	24	22.43	22.07	21.84	21.8	2
5	16QAM	12	0	20.99	20.89	20.91		
5	16QAM	12	7	21.05	21.02	20.92		
5	16QAM	12	13	20.94	21.03	20.93	21.8	2
5	16QAM	25	0	20.89	20.92	20.93		
5	64QAM	1	0	20.96	20.92	20.93		
5	64QAM	1	12	20.96	20.99	21.03	21.8	2
5	64QAM	1	24	20.98	20.95	20.89		
5	64QAM	12	0	19.80	19.80	19.83		
5	64QAM	12	7	19.89	19.93	19.89	20.8	3
5	64QAM	12	13	19.81	19.89	19.89		
5	64QAM	25	0	19.81	19.78	19.81		



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5	256QAM	1	0	17.81	17.89	17.88	18.8	2
5	256QAM	1	12	17.87	17.81	17.82		
5	256QAM	1	24	17.77	17.77	17.78		
5	256QAM	12	0	17.91	17.84	17.81	18.8	3
5	256QAM	12	7	17.84	17.88	17.83		
5	256QAM	12	13	17.77	17.81	17.80		
5	256QAM	25	0	17.85	17.76	17.85	Tune-up limit (dBm)	MPR (dB)
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.94	22.90	22.96	23.8	0
3	QPSK	1	8	22.96	22.96	22.95		
3	QPSK	1	14	22.93	22.95	22.78		
3	QPSK	8	0	21.88	21.90	21.99	22.8	1
3	QPSK	8	4	22.03	21.99	21.97		
3	QPSK	8	7	21.90	21.95	21.98		
3	QPSK	15	0	21.97	21.90	21.93	22.8	1
3	16QAM	1	0	21.91	22.00	22.08		
3	16QAM	1	8	21.92	22.18	22.11		
3	16QAM	1	14	21.82	22.11	22.02	21.8	2
3	16QAM	8	0	21.05	21.05	21.13		
3	16QAM	8	4	21.23	21.20	21.06		
3	16QAM	8	7	21.12	21.12	21.04	21.8	2
3	16QAM	15	0	21.07	21.10	20.99		
3	64QAM	1	0	20.91	20.94	20.98	21.8	2
3	64QAM	1	8	21.04	21.05	21.02		
3	64QAM	1	14	21.03	20.98	20.87		
3	64QAM	8	0	19.81	19.81	19.87	20.8	3
3	64QAM	8	4	19.89	19.92	19.91		
3	64QAM	8	7	19.84	19.86	19.87		
3	64QAM	15	0	19.84	19.78	19.86	18.8	2
3	256QAM	1	0	17.75	17.81	17.79		
3	256QAM	1	8	17.79	17.78	17.81		
3	256QAM	1	14	17.77	17.73	17.73	18.8	3
3	256QAM	8	0	17.89	17.77	17.73		
3	256QAM	8	4	17.81	17.81	17.75		
3	256QAM	8	7	17.75	17.71	17.79	18.8	3
3	256QAM	15	0	17.83	17.73	17.81		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.80	22.74	22.75	23.8	0
1.4	QPSK	1	3	22.86	22.94	22.82		
1.4	QPSK	1	5	22.79	22.81	22.70		
1.4	QPSK	3	0	22.80	22.66	22.74	22.8	1
1.4	QPSK	3	1	22.83	22.83	22.78		
1.4	QPSK	3	3	22.82	22.81	22.71		
1.4	QPSK	6	0	21.93	21.76	21.79	22.8	1
1.4	16QAM	1	0	22.37	22.12	22.15		
1.4	16QAM	1	3	22.41	22.28	22.19		
1.4	16QAM	1	5	22.31	22.25	22.16	22.8	1
1.4	16QAM	3	0	21.91	21.84	21.75		
1.4	16QAM	3	1	21.96	21.82	21.86		
1.4	16QAM	3	3	21.92	21.75	21.76	21.8	2
1.4	16QAM	6	0	20.96	21.02	21.03		
1.4	64QAM	1	0	20.87	20.89	20.92		
1.4	64QAM	1	3	20.99	21.01	21.01	21.8	2
1.4	64QAM	1	5	20.87	20.96	20.89		



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1.4	64QAM	3	0	20.88	20.82	20.86		
1.4	64QAM	3	1	20.91	20.90	20.93		
1.4	64QAM	3	3	20.88	20.88	20.90		
1.4	64QAM	6	0	19.70	19.70	19.77	20.8	3
1.4	256QAM	1	0	17.71	17.75	17.74	22.8	0
1.4	256QAM	1	3	17.74	17.71	17.71		
1.4	256QAM	1	5	17.75	17.65	17.68		
1.4	256QAM	3	0	17.85	17.68	17.72		
1.4	256QAM	3	1	17.80	17.71	17.75		
1.4	256QAM	3	3	17.69	17.67	17.75		
1.4	256QAM	6	0	17.82	17.63	17.77	22.8	0



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	23.56	23.46	23.37	23.8	0
20	QPSK	1	49	23.55	23.47	23.38		
20	QPSK	1	99	23.54	23.50	23.34		
20	QPSK	50	0	22.62	22.58	22.38	22.8	1
20	QPSK	50	24	22.67	22.61	22.39		
20	QPSK	50	50	22.64	22.60	22.42		
20	QPSK	100	0	22.57	22.54	22.30	22.8	1
20	16QAM	1	0	22.60	22.48	22.40		
20	16QAM	1	49	22.73	22.52	22.27		
20	16QAM	1	99	22.75	22.49	22.39	21.8	2
20	16QAM	50	0	21.64	21.58	21.46		
20	16QAM	50	24	21.59	21.61	21.56		
20	16QAM	50	50	21.71	21.55	21.51	21.8	2
20	16QAM	100	0	21.51	21.46	21.39		
20	64QAM	1	0	21.38	21.42	21.38		
20	64QAM	1	49	21.46	21.50	21.34	21.8	2
20	64QAM	1	99	21.54	21.47	21.33		
20	64QAM	50	0	20.35	20.33	20.30	20.8	3
20	64QAM	50	24	20.35	20.35	20.31		
20	64QAM	50	50	20.36	20.33	20.29		
20	64QAM	100	0	20.29	20.25	20.22	18.8	2
20	256QAM	1	0	18.56	18.46	18.37		
20	256QAM	1	49	18.55	18.47	18.38		
20	256QAM	1	99	18.54	18.50	18.34	18.8	3
20	256QAM	50	0	18.59	18.58	18.38		
20	256QAM	50	24	18.61	18.55	18.39		
20	256QAM	50	50	18.56	18.60	18.42	18.8	3
20	256QAM	100	0	18.57	18.54	18.30		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	23.46	23.45	23.33	23.8	0
15	QPSK	1	37	23.54	23.53	23.29		
15	QPSK	1	74	23.55	23.50	23.29		
15	QPSK	36	0	22.64	22.60	22.48	22.8	1
15	QPSK	36	20	22.67	22.60	22.54		
15	QPSK	36	39	22.71	22.54	22.50		
15	QPSK	75	0	22.62	22.62	22.44	22.8	1
15	16QAM	1	0	22.76	22.40	22.71		
15	16QAM	1	37	22.74	22.40	22.76		
15	16QAM	1	74	22.79	22.56	22.78	21.8	2
15	16QAM	36	0	21.74	21.59	21.58		
15	16QAM	36	20	21.74	21.61	21.50		
15	16QAM	36	39	21.67	21.51	21.47	21.8	2
15	16QAM	75	0	21.66	21.61	21.40		
15	64QAM	1	0	21.33	21.35	21.36		
15	64QAM	1	37	21.43	21.48	21.40	21.8	2
15	64QAM	1	74	21.43	21.34	21.26		
15	64QAM	36	0	20.36	20.36	20.32		
15	64QAM	36	20	20.38	20.37	20.30	20.8	3
15	64QAM	36	39	20.36	20.39	20.31		
15	64QAM	75	0	20.29	20.28	20.24		



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15	256QAM	1	0	18.47	18.39	18.30	18.8	2
15	256QAM	1	37	18.49	18.46	18.29		
15	256QAM	1	74	18.53	18.40	18.33		
15	256QAM	36	0	18.59	18.57	18.35	18.8	3
15	256QAM	36	20	18.56	18.49	18.37		
15	256QAM	36	39	18.48	18.58	18.35		
15	256QAM	75	0	18.48	18.46	18.23		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	23.11	23.35	23.10	23.8	0
10	QPSK	1	25	23.19	23.15	22.91		
10	QPSK	1	49	23.32	23.15	22.99		
10	QPSK	25	0	22.40	22.46	22.25	22.8	1
10	QPSK	25	12	22.47	22.45	22.19		
10	QPSK	25	25	22.50	22.36	22.23		
10	QPSK	50	0	22.43	22.21	22.16		
10	16QAM	1	0	22.63	22.57	22.34	22.8	1
10	16QAM	1	25	22.71	22.61	22.39		
10	16QAM	1	49	22.75	22.74	22.41		
10	16QAM	25	0	21.37	21.43	21.13	21.8	2
10	16QAM	25	12	21.47	21.39	21.30		
10	16QAM	25	25	21.33	21.40	21.12		
10	16QAM	50	0	21.50	21.33	21.18		
10	64QAM	1	0	21.16	21.30	21.12	21.8	2
10	64QAM	1	25	21.23	21.33	21.15		
10	64QAM	1	49	21.21	21.28	21.19		
10	64QAM	25	0	20.05	20.18	20.00	20.8	3
10	64QAM	25	12	20.12	20.23	20.07		
10	64QAM	25	25	20.05	20.12	20.01		
10	64QAM	50	0	20.03	20.08	19.98		
10	256QAM	1	0	18.40	18.38	18.24	18.8	2
10	256QAM	1	25	18.41	18.41	18.27		
10	256QAM	1	49	18.43	18.38	18.31		
10	256QAM	25	0	18.58	18.56	18.29	18.8	3
10	256QAM	25	12	18.47	18.49	18.30		
10	256QAM	25	25	18.41	18.52	18.25		
10	256QAM	50	0	18.38	18.44	18.16		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	23.31	23.27	23.09	23.8	0
5	QPSK	1	12	23.43	23.28	23.13		
5	QPSK	1	24	23.37	23.38	23.08		
5	QPSK	12	0	22.47	22.48	22.19	22.8	1
5	QPSK	12	7	22.49	22.47	22.14		
5	QPSK	12	13	22.42	22.43	22.21		
5	QPSK	25	0	22.49	22.40	22.20		
5	16QAM	1	0	22.76	22.74	22.68	22.8	1
5	16QAM	1	12	22.77	22.72	22.64		
5	16QAM	1	24	22.73	22.79	22.69		
5	16QAM	12	0	21.49	21.53	21.29	21.8	2
5	16QAM	12	7	21.56	21.57	21.24		
5	16QAM	12	13	21.45	21.54	21.18		
5	16QAM	25	0	21.51	21.46	21.09		
5	64QAM	1	0	21.16	21.36	21.18	21.8	2
5	64QAM	1	12	21.15	21.36	21.02		
5	64QAM	1	24	21.17	21.31	20.97		



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5	64QAM	12	0	20.09	20.20	20.01	20.8	3
5	64QAM	12	7	20.13	20.25	19.90		
5	64QAM	12	13	20.03	20.24	19.90		
5	64QAM	25	0	20.00	20.21	19.81		
5	256QAM	1	0	18.37	18.28	18.24	18.8	2
5	256QAM	1	12	18.34	18.33	18.21		
5	256QAM	1	24	18.38	18.36	18.25		
5	256QAM	12	0	18.54	18.52	18.26	18.8	3
5	256QAM	12	7	18.44	18.48	18.23		
5	256QAM	12	13	18.34	18.42	18.20		
5	256QAM	25	0	18.33	18.40	18.16		



<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.92	22.71	22.79	23.8	0
10	QPSK	1	25	22.88	22.94	22.64		
10	QPSK	1	49	22.78	22.81	22.75		
10	QPSK	25	0	21.89	21.90	21.85	22.8	1
10	QPSK	25	12	22.08	22.10	22.05		
10	QPSK	25	25	21.97	22.04	21.98		
10	QPSK	50	0	21.89	21.95	21.83	22.8	1
10	16QAM	1	0	22.29	22.08	22.25		
10	16QAM	1	25	22.23	22.09	22.08		
10	16QAM	1	49	22.19	22.19	22.15	21.8	2
10	16QAM	25	0	20.97	20.90	20.91		
10	16QAM	25	12	21.07	21.06	21.08		
10	16QAM	25	25	21.06	21.08	20.98	21.8	2
10	16QAM	50	0	21.02	20.86	20.86		
10	64QAM	1	0	21.07	21.03	21.09		
10	64QAM	1	25	21.09	21.11	21.11	21.8	2
10	64QAM	1	49	21.16	21.17	21.11		
10	64QAM	25	0	19.88	19.85	19.86		
10	64QAM	25	12	20.00	19.97	20.00	20.8	3
10	64QAM	25	25	19.97	19.98	19.96		
10	64QAM	50	0	19.96	19.87	19.88		
10	256QAM	1	0	17.92	17.71	17.79	18.8	2
10	256QAM	1	25	17.88	17.94	17.64		
10	256QAM	1	49	17.78	17.81	17.75		
10	256QAM	25	0	17.89	17.90	17.85	18.8	3
10	256QAM	25	12	17.98	18.00	17.95		
10	256QAM	25	25	17.97	17.94	17.98		
10	256QAM	50	0	17.89	17.95	17.83	Tune-up limit (dBm)	MPR (dB)
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.88	22.78	22.86		
5	QPSK	1	12	22.90	22.91	22.92	23.8	0
5	QPSK	1	24	22.93	22.93	22.92		
5	QPSK	12	0	22.07	21.96	21.92		
5	QPSK	12	7	22.04	22.05	21.98	22.8	1
5	QPSK	12	13	22.01	21.98	21.98		
5	QPSK	25	0	22.06	21.91	21.91		
5	16QAM	1	0	22.42	22.36	22.25	22.8	1
5	16QAM	1	12	22.06	22.49	22.31		
5	16QAM	1	24	22.55	22.31	22.31		
5	16QAM	12	0	21.08	20.93	20.91	21.8	2
5	16QAM	12	7	21.05	21.02	20.92		
5	16QAM	12	13	21.03	20.96	20.91		
5	16QAM	25	0	21.07	20.91	20.91	21.8	2
5	64QAM	1	0	21.11	21.08	21.01		
5	64QAM	1	12	21.08	21.13	21.08		
5	64QAM	1	24	21.14	21.13	21.07	20.8	3
5	64QAM	12	0	20.01	20.02	19.99		
5	64QAM	12	7	20.03	20.06	19.98		
5	64QAM	12	13	20.02	20.05	19.99	20.8	3
5	64QAM	25	0	19.99	19.96	19.89		



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5	256QAM	1	0	17.86	17.62	17.72	18.8	2
5	256QAM	1	12	17.85	17.85	17.61		
5	256QAM	1	24	17.75	17.75	17.66		
5	256QAM	12	0	17.85	17.89	17.84	18.8	3
5	256QAM	12	7	17.90	17.95	17.88		
5	256QAM	12	13	17.97	17.84	17.92		
5	256QAM	25	0	17.82	17.88	17.73	Tune-up limit (dBm)	MPR (dB)
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.92	22.89	22.90	23.8	0
3	QPSK	1	8	22.91	22.93	22.90		
3	QPSK	1	14	22.93	22.92	22.81		
3	QPSK	8	0	22.01	21.93	21.97	22.8	1
3	QPSK	8	4	22.05	21.96	21.95		
3	QPSK	8	7	22.00	22.00	21.93		
3	QPSK	15	0	22.04	21.93	22.02	22.8	1
3	16QAM	1	0	21.97	21.88	22.07		
3	16QAM	1	8	21.98	21.99	21.93		
3	16QAM	1	14	21.98	21.88	22.07	21.8	2
3	16QAM	8	0	21.21	21.12	21.06		
3	16QAM	8	4	21.15	21.18	21.08		
3	16QAM	8	7	21.13	21.14	21.04	21.8	2
3	16QAM	15	0	21.12	21.05	21.07		
3	64QAM	1	0	21.14	21.10	21.06		
3	64QAM	1	8	21.19	21.18	21.08	21.8	2
3	64QAM	1	14	21.13	21.16	21.02		
3	64QAM	8	0	20.08	20.01	19.95	20.8	3
3	64QAM	8	4	20.06	20.08	19.97		
3	64QAM	8	7	20.00	20.05	19.94		
3	64QAM	15	0	20.02	19.93	19.94	18.8	2
3	256QAM	1	0	17.83	17.59	17.64		
3	256QAM	1	8	17.76	17.84	17.60		
3	256QAM	1	14	17.73	17.72	17.66	18.8	3
3	256QAM	8	0	17.77	17.84	17.79		
3	256QAM	8	4	17.81	17.90	17.83		
3	256QAM	8	7	17.94	17.75	17.85	18.8	3
3	256QAM	15	0	17.77	17.83	17.63		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.88	22.77	22.75	23.8	0
1.4	QPSK	1	3	22.90	22.83	22.78		
1.4	QPSK	1	5	22.82	22.79	22.74		
1.4	QPSK	3	0	22.87	22.79	22.70	22.8	1
1.4	QPSK	3	1	22.89	22.78	22.75		
1.4	QPSK	3	3	22.92	22.82	22.77		
1.4	QPSK	6	0	21.95	21.83	21.86	22.8	1
1.4	16QAM	1	0	22.11	21.99	22.38		
1.4	16QAM	1	3	22.27	22.17	22.43		
1.4	16QAM	1	5	22.18	22.12	22.23	21.8	2
1.4	16QAM	3	0	21.98	21.92	21.83		
1.4	16QAM	3	1	22.03	21.92	21.83		
1.4	16QAM	3	3	21.97	21.90	21.75	21.8	2
1.4	16QAM	6	0	21.06	20.89	20.94		
1.4	64QAM	1	0	21.07	20.99	21.00		
1.4	64QAM	1	3	21.11	21.14	21.02	21.8	2
1.4	64QAM	1	5	21.05	21.09	20.95		



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1.4	64QAM	3	0	21.06	20.97	20.96		
1.4	64QAM	3	1	21.12	21.03	20.99		
1.4	64QAM	3	3	21.09	21.04	20.96		
1.4	64QAM	6	0	19.93	19.84	19.81	20.8	3
1.4	256QAM	1	0	17.78	17.57	17.60	18.8	0
1.4	256QAM	1	3	17.73	17.79	17.60		
1.4	256QAM	1	5	17.68	17.69	17.60		
1.4	256QAM	3	0	17.70	17.83	17.74		
1.4	256QAM	3	1	17.71	17.81	17.78		
1.4	256QAM	3	3	17.88	17.74	17.79		
1.4	256QAM	6	0	17.67	17.73	17.61	18.8	0



<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.92		23.8	0
10	QPSK	1	25		22.90			
10	QPSK	1	49		22.84			
10	QPSK	25	0		22.01		22.8	1
10	QPSK	25	12		22.03			
10	QPSK	25	25		22.00			
10	QPSK	50	0		21.94		22.8	1
10	16QAM	1	0		22.56			
10	16QAM	1	25		22.55			
10	16QAM	1	49		22.45		21.8	2
10	16QAM	25	0		20.91			
10	16QAM	25	12		20.93			
10	16QAM	25	25		20.98		21.8	2
10	16QAM	50	0		20.91			
10	64QAM	1	0		20.84			
10	64QAM	1	25		20.93		21.8	2
10	64QAM	1	49		20.88			
10	64QAM	25	0		19.73			
10	64QAM	25	12		19.79		20.8	3
10	64QAM	25	25		19.81			
10	64QAM	50	0		19.70			
10	256QAM	1	0		17.92		18.8	2
10	256QAM	1	25		17.90			
10	256QAM	1	49		17.84			
10	256QAM	25	0		17.99		18.8	3
10	256QAM	25	12		17.97			
10	256QAM	25	25		18.00			
10	256QAM	50	0		17.94			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.91	22.90	22.84	23.8	0
5	QPSK	1	12	22.89	22.89	22.90		
5	QPSK	1	24	22.91	22.91	22.82		
5	QPSK	12	0	22.08	22.06	22.00	22.8	1
5	QPSK	12	7	22.15	22.08	22.08		
5	QPSK	12	13	22.12	22.12	22.07		
5	QPSK	25	0	21.98	21.96	21.91	22.8	1
5	16QAM	1	0	22.15	22.02	22.45		
5	16QAM	1	12	22.09	22.40	22.39		
5	16QAM	1	24	22.18	22.13	22.09	21.8	2
5	16QAM	12	0	21.19	21.18	20.95		
5	16QAM	12	7	21.14	21.12	21.07		
5	16QAM	12	13	21.13	21.07	21.04	21.8	2
5	16QAM	25	0	21.12	21.00	20.90		
5	64QAM	1	0	20.62	20.91	20.82	21.8	2
5	64QAM	1	12	20.98	20.93	20.81		
5	64QAM	1	24	20.96	20.86	20.86		
5	64QAM	12	0	19.91	19.78	19.77	20.8	3
5	64QAM	12	7	19.92	19.85	19.86		
5	64QAM	12	13	19.86	19.84	19.82		
5	64QAM	25	0	19.79	19.77	19.77		



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5	256QAM	1	0	17.90	17.87	17.83	18.8	2
5	256QAM	1	12	17.83	17.89	17.86		
5	256QAM	1	24	17.78	17.82	17.82		
5	256QAM	12	0	17.92	17.98	17.92	18.8	3
5	256QAM	12	7	17.90	17.90	17.88		
5	256QAM	12	13	17.96	17.90	17.99		
5	256QAM	25	0	17.88	17.94	17.85		



<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.85	22.96	22.89	23.8	0
10	QPSK	1	25	22.83	22.87	22.95		
10	QPSK	1	49	22.88	22.95	22.91		
10	QPSK	25	0	22.00	22.01	22.00	22.8	1
10	QPSK	25	12	22.06	22.09	22.01		
10	QPSK	25	25	22.04	21.91	21.96		
10	QPSK	50	0	21.98	22.04	22.02	22.8	1
10	16QAM	1	0	22.26	22.50	22.57		
10	16QAM	1	25	22.20	22.56	22.57		
10	16QAM	1	49	22.19	22.42	22.58	21.8	2
10	16QAM	25	0	21.05	21.04	21.10		
10	16QAM	25	12	21.21	20.93	21.05		
10	16QAM	25	25	21.11	21.08	21.03	21.8	2
10	16QAM	50	0	20.99	21.08	21.02		
10	64QAM	1	0	21.12	21.06	20.99		
10	64QAM	1	25	21.15	21.21	21.11	21.8	2
10	64QAM	1	49	21.16	21.11	21.09		
10	64QAM	25	0	19.98	19.97	19.96		
10	64QAM	25	12	20.09	20.03	19.99	20.8	3
10	64QAM	25	25	20.03	19.95	19.93		
10	64QAM	50	0	19.97	19.99	19.99		
10	256QAM	1	0	17.85	17.96	17.89	18.8	2
10	256QAM	1	25	17.83	17.87	17.95		
10	256QAM	1	49	17.88	17.95	17.91		
10	256QAM	25	0	18.00	17.93	18.00	18.8	3
10	256QAM	25	12	17.96	18.00	17.91		
10	256QAM	25	25	17.94	17.91	17.96		
10	256QAM	50	0	17.98	17.94	17.91	Tune-up limit (dBm)	MPR (dB)
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.93	22.95	22.83		
5	QPSK	1	12	22.94	22.95	22.89	23.8	0
5	QPSK	1	24	22.95	22.91	22.75		
5	QPSK	12	0	22.02	22.02	21.94		
5	QPSK	12	7	22.04	22.01	22.05	22.8	1
5	QPSK	12	13	22.08	21.96	21.93		
5	QPSK	25	0	22.10	22.06	22.07		
5	16QAM	1	0	22.34	22.23	22.23	22.8	1
5	16QAM	1	12	22.37	22.39	22.16		
5	16QAM	1	24	22.38	22.22	22.20		
5	16QAM	12	0	21.02	20.98	20.91	21.8	2
5	16QAM	12	7	21.04	20.98	20.98		
5	16QAM	12	13	21.08	20.97	20.87		
5	16QAM	25	0	21.02	20.96	20.96	21.8	2
5	64QAM	1	0	21.11	21.06	21.07		
5	64QAM	1	12	21.10	21.11	21.06		
5	64QAM	1	24	21.16	21.06	21.01	20.8	3
5	64QAM	12	0	20.04	19.99	20.01		
5	64QAM	12	7	20.09	20.04	20.00		
5	64QAM	12	13	20.11	20.03	19.98	20.8	3
5	64QAM	25	0	20.03	19.99	19.94		



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5	256QAM	1	0	17.77	17.88	17.89	18.8	2
5	256QAM	1	12	17.74	17.80	17.92		
5	256QAM	1	24	17.87	17.87	17.84		
5	256QAM	12	0	17.94	17.92	17.96	18.8	3
5	256QAM	12	7	17.87	17.93	17.81		
5	256QAM	12	13	17.93	17.88	17.88		
5	256QAM	25	0	17.97	17.86	17.87		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	23.13	23.23	23.21	23.8	0
20	QPSK	1	49	23.11	23.20	23.11		
20	QPSK	1	99	23.09	23.19	23.12		
20	QPSK	50	0	22.16	22.27	22.22	22.8	1
20	QPSK	50	24	22.23	22.34	22.19		
20	QPSK	50	50	22.19	22.30	22.22		
20	QPSK	100	0	22.14	22.26	22.13	22.8	1
20	16QAM	1	0	22.28	22.51	22.21		
20	16QAM	1	49	22.28	22.24	22.20		
20	16QAM	1	99	22.29	22.06	22.15	21.8	2
20	16QAM	50	0	21.11	21.25	21.34		
20	16QAM	50	24	21.17	21.37	21.18		
20	16QAM	50	50	21.19	21.34	21.26	21.8	2
20	16QAM	100	0	21.28	21.26	21.20		
20	64QAM	1	0	21.12	21.32	21.20	21.8	2
20	64QAM	1	49	21.16	21.30	21.17		
20	64QAM	1	99	21.05	21.28	21.17		
20	64QAM	50	0	20.03	20.16	20.04	20.8	3
20	64QAM	50	24	20.11	20.23	20.05		
20	64QAM	50	50	20.03	20.16	20.08		
20	64QAM	100	0	19.99	20.11	19.96	18.8	2
20	256QAM	1	0	18.13	18.23	18.21		
20	256QAM	1	49	18.11	18.20	18.11		
20	256QAM	1	99	18.09	18.19	18.12	18.8	3
20	256QAM	50	0	18.16	18.27	18.22		
20	256QAM	50	24	18.23	18.29	18.19		
20	256QAM	50	50	18.19	18.30	18.22	18.8	3
20	256QAM	100	0	18.14	18.26	18.13		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	22.92	23.22	23.16	23.8	0
15	QPSK	1	37	23.09	23.18	23.18		
15	QPSK	1	74	22.99	23.19	23.13		
15	QPSK	36	0	22.02	22.18	22.15	22.8	1
15	QPSK	36	20	22.26	22.34	22.29		
15	QPSK	36	39	22.20	22.35	22.23		
15	QPSK	75	0	22.08	22.26	22.23	22.8	1
15	16QAM	1	0	22.09	22.72	22.71		
15	16QAM	1	37	22.32	22.78	22.71		
15	16QAM	1	74	22.22	22.80	22.74	21.8	2
15	16QAM	36	0	21.10	21.16	21.17		
15	16QAM	36	20	21.30	21.32	21.35		
15	16QAM	36	39	21.17	21.32	21.22	21.8	2
15	16QAM	75	0	21.22	21.22	21.32		
15	64QAM	1	0	20.87	21.32	21.15		
15	64QAM	1	37	21.16	21.30	21.24	21.8	2
15	64QAM	1	74	20.99	21.30	21.22		
15	64QAM	36	0	19.95	20.08	19.99	20.8	3
15	64QAM	36	20	20.10	20.27	20.12		
15	64QAM	36	39	20.05	20.19	20.08		
15	64QAM	75	0	20.00	20.14	20.03	20.8	3



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15	256QAM	1	0	18.08	18.16	18.21	18.8	2
15	256QAM	1	37	18.07	18.19	18.02		
15	256QAM	1	74	18.07	18.15	18.09		
15	256QAM	36	0	18.15	18.20	18.20	18.8	3
15	256QAM	36	20	18.17	18.28	18.16		
15	256QAM	36	39	18.14	18.30	18.18		
15	256QAM	75	0	18.08	18.20	18.05	Tune-up limit (dBm)	MPR (dB)
Channel				26090	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	22.70	22.78	22.86	23.8	0
10	QPSK	1	25	22.93	22.78	22.87		
10	QPSK	1	49	22.71	22.57	22.86		
10	QPSK	25	0	21.83	21.95	21.99	22.8	1
10	QPSK	25	12	21.94	22.10	22.05		
10	QPSK	25	25	21.88	21.99	22.06		
10	QPSK	50	0	21.86	22.09	22.03	22.8	1
10	16QAM	1	0	21.93	22.04	22.35		
10	16QAM	1	25	22.12	22.33	22.22		
10	16QAM	1	49	21.90	22.07	22.17	21.8	2
10	16QAM	25	0	20.74	21.05	21.05		
10	16QAM	25	12	20.89	21.16	21.10		
10	16QAM	25	25	20.96	21.13	21.02	21.8	2
10	16QAM	50	0	20.95	21.11	21.01		
10	64QAM	1	0	20.69	20.76	20.89		
10	64QAM	1	25	21.00	21.13	20.99	21.8	2
10	64QAM	1	49	20.69	20.83	20.97		
10	64QAM	25	0	19.66	19.85	19.71	20.8	3
10	64QAM	25	12	19.86	20.06	19.82		
10	64QAM	25	25	19.79	19.94	19.83		
10	64QAM	50	0	19.79	19.94	19.76	18.8	2
10	256QAM	1	0	18.07	18.12	18.14		
10	256QAM	1	25	18.01	18.10	17.93		
10	256QAM	1	49	17.97	18.09	18.06	18.8	3
10	256QAM	25	0	18.14	18.18	18.11		
10	256QAM	25	12	18.08	18.27	18.13		
10	256QAM	25	25	18.13	18.27	18.15	18.8	3
10	256QAM	50	0	18.06	18.11	18.05		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	22.73	22.94	22.92		
5	QPSK	1	12	22.84	22.99	22.91	23.8	0
5	QPSK	1	24	22.89	22.98	23.02		
5	QPSK	12	0	21.85	22.02	22.00	22.8	1
5	QPSK	12	7	21.97	22.16	22.00		
5	QPSK	12	13	21.97	22.11	22.04		
5	QPSK	25	0	21.96	22.08	22.02	22.8	1
5	16QAM	1	0	22.39	22.44	22.51		
5	16QAM	1	12	22.38	22.50	22.51		
5	16QAM	1	24	22.42	22.62	22.50	21.8	2
5	16QAM	12	0	20.91	20.98	21.07		
5	16QAM	12	7	20.97	21.18	21.04		
5	16QAM	12	13	20.90	21.13	21.13	21.8	2
5	16QAM	25	0	20.97	21.18	21.00		
5	64QAM	1	0	20.95	21.00	20.92		
5	64QAM	1	12	20.92	21.04	20.87	21.8	2
5	64QAM	1	24	20.94	21.10	20.93		



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5	64QAM	12	0	19.82	19.97	19.83	20.8	3
5	64QAM	12	7	19.88	20.06	19.82		
5	64QAM	12	13	19.86	20.01	19.90		
5	64QAM	25	0	19.82	19.98	19.77		
5	256QAM	1	0	17.99	18.07	18.11	18.8	2
5	256QAM	1	12	17.98	18.03	17.84		
5	256QAM	1	24	17.94	18.04	18.04		
5	256QAM	12	0	18.09	18.12	18.05	18.8	3
5	256QAM	12	7	18.05	18.19	18.12		
5	256QAM	12	13	18.09	18.18	18.09		
5	256QAM	25	0	17.98	18.10	18.01		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	22.88	22.91	22.95	23.8	0
3	QPSK	1	8	22.91	23.01	23.01		
3	QPSK	1	14	22.95	23.06	22.96		
3	QPSK	8	0	21.89	22.11	22.03	22.8	1
3	QPSK	8	4	21.93	22.13	22.05		
3	QPSK	8	7	21.93	22.09	22.02		
3	QPSK	15	0	21.88	22.09	22.08		
3	16QAM	1	0	21.94	22.03	21.96	22.8	1
3	16QAM	1	8	22.00	22.13	22.02		
3	16QAM	1	14	22.00	22.19	21.97		
3	16QAM	8	0	20.90	21.06	21.19	21.8	2
3	16QAM	8	4	20.98	21.19	21.24		
3	16QAM	8	7	20.94	21.19	21.18		
3	16QAM	15	0	20.85	21.04	21.17		
3	64QAM	1	0	20.96	20.97	20.88	21.8	2
3	64QAM	1	8	21.01	21.09	20.96		
3	64QAM	1	14	20.93	21.11	20.97		
3	64QAM	8	0	19.86	20.03	19.83	20.8	3
3	64QAM	8	4	19.85	20.04	19.87		
3	64QAM	8	7	19.83	20.01	19.88		
3	64QAM	15	0	19.82	19.99	19.83		
3	256QAM	1	0	17.89	18.01	18.07	18.8	2
3	256QAM	1	8	17.94	17.97	17.80		
3	256QAM	1	14	17.90	17.96	17.96		
3	256QAM	8	0	18.00	18.12	18.05	18.8	3
3	256QAM	8	4	17.95	18.13	18.05		
3	256QAM	8	7	18.00	18.17	18.04		
3	256QAM	15	0	17.96	18.04	17.93		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	22.65	22.80	22.85	23.8	0
1.4	QPSK	1	3	22.85	22.94	22.87		
1.4	QPSK	1	5	22.70	22.90	22.86		
1.4	QPSK	3	0	22.79	22.94	22.83		
1.4	QPSK	3	1	22.77	22.90	22.88		
1.4	QPSK	3	3	22.82	22.85	22.86	22.8	1
1.4	QPSK	6	0	21.78	22.04	21.98		
1.4	16QAM	1	0	21.99	21.97	22.38	22.8	1
1.4	16QAM	1	3	22.02	22.14	22.55		
1.4	16QAM	1	5	21.95	22.15	22.45		
1.4	16QAM	3	0	21.87	22.01	21.94		
1.4	16QAM	3	1	21.92	22.09	22.04		
1.4	16QAM	3	3	21.92	22.02	22.00		



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1.4	16QAM	6	0	20.89	21.08	21.00	21.8	2
1.4	64QAM	1	0	20.87	20.95	20.87	21.8	2
1.4	64QAM	1	3	20.93	21.05	20.88		
1.4	64QAM	1	5	20.87	21.04	20.83		
1.4	64QAM	3	0	20.86	20.95	20.81		
1.4	64QAM	3	1	20.89	21.02	20.83		
1.4	64QAM	3	3	20.89	20.96	20.82		
1.4	64QAM	6	0	19.76	19.88	19.75	20.8	3
1.4	256QAM	1	0	17.82	17.96	18.00	18.8	0
1.4	256QAM	1	3	17.85	17.92	17.78		
1.4	256QAM	1	5	17.86	17.90	17.93		
1.4	256QAM	3	0	18.00	18.10	18.01		
1.4	256QAM	3	1	17.89	18.10	18.01		
1.4	256QAM	3	3	17.99	18.16	18.02		
1.4	256QAM	6	0	17.95	17.97	17.86	18.8	0



<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965	23.8	0
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.96	22.99	22.95		
15	QPSK	1	37	22.90	22.93	22.90	22.8	1
15	QPSK	1	74	22.94	22.96	22.77		
15	QPSK	36	0	21.94	21.91	21.96		
15	QPSK	36	20	22.05	22.07	22.01	22.8	1
15	QPSK	36	39	22.01	21.98	22.06		
15	QPSK	75	0	22.02	22.05	22.03		
15	16QAM	1	0	22.16	22.43	22.01	22.8	1
15	16QAM	1	37	22.26	22.08	21.98		
15	16QAM	1	74	22.10	21.93	21.84		
15	16QAM	36	0	20.91	20.92	20.97	21.8	2
15	16QAM	36	20	21.10	20.94	21.10		
15	16QAM	36	39	21.02	20.98	21.03		
15	16QAM	75	0	21.06	20.98	21.01	21.8	2
15	64QAM	1	0	20.94	20.91	21.02		
15	64QAM	1	37	21.05	21.00	21.09		
15	64QAM	1	74	21.07	21.03	21.01	20.8	3
15	64QAM	36	0	19.79	19.80	19.86		
15	64QAM	36	20	19.94	19.89	20.02		
15	64QAM	36	39	19.86	19.92	19.94	18.8	2
15	64QAM	75	0	19.85	19.81	19.93		
15	256QAM	1	0	17.96	17.99	17.95		
15	256QAM	1	37	17.90	17.93	17.90	18.8	3
15	256QAM	1	74	17.94	17.96	17.77		
15	256QAM	36	0	17.94	17.91	17.96		
15	256QAM	36	20	17.95	18.00	17.93	18.8	3
15	256QAM	36	39	17.96	17.98	17.99		
15	256QAM	75	0	17.92	17.96	17.93		
Channel				26740	26865	26990	23.8	0
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.88	22.85	22.84		
10	QPSK	1	25	22.87	22.88	22.94	22.8	1
10	QPSK	1	49	22.76	22.86	22.80		
10	QPSK	25	0	21.74	21.83	21.80		
10	QPSK	25	12	21.94	21.95	21.87	22.8	1
10	QPSK	25	25	21.69	21.83	21.87		
10	QPSK	50	0	21.81	21.78	21.88		
10	16QAM	1	0	22.11	22.36	22.50	22.8	1
10	16QAM	1	25	22.05	22.36	22.63		
10	16QAM	1	49	22.09	22.34	22.32		
10	16QAM	25	0	20.83	20.78	20.73	21.8	2
10	16QAM	25	12	20.90	20.89	20.77		
10	16QAM	25	25	20.76	20.91	20.77		
10	16QAM	50	0	20.90	20.82	20.88	21.8	2
10	64QAM	1	0	20.84	20.86	20.91		
10	64QAM	1	25	20.89	20.91	20.93		
10	64QAM	1	49	20.90	20.86	20.87	20.8	3
10	64QAM	25	0	19.56	19.65	19.69		
10	64QAM	25	12	19.76	19.79	19.80		
10	64QAM	25	25	19.70	19.77	19.77	20.8	3
10	64QAM	50	0	19.68	19.69	19.72		



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10	256QAM	1	0	17.88	17.96	17.90	18.8	2
10	256QAM	1	25	17.84	17.92	17.80		
10	256QAM	1	49	17.91	17.88	17.71		
10	256QAM	25	0	17.94	17.84	17.93	18.8	3
10	256QAM	25	12	17.95	17.94	17.88		
10	256QAM	25	25	17.86	17.95	17.90		
10	256QAM	50	0	17.83	17.95	17.90	Tune-up limit (dBm)	MPR (dB)
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.75	22.75	22.85	23.8	0
5	QPSK	1	12	22.83	22.85	22.96		
5	QPSK	1	24	22.80	22.86	22.89		
5	QPSK	12	0	21.88	21.89	21.83	22.8	1
5	QPSK	12	7	21.92	22.08	21.86		
5	QPSK	12	13	21.93	21.96	21.88		
5	QPSK	25	0	21.92	21.93	21.87	22.8	1
5	16QAM	1	0	21.74	21.77	21.97		
5	16QAM	1	12	21.80	22.00	22.03		
5	16QAM	1	24	21.76	22.07	21.97	21.8	2
5	16QAM	12	0	20.94	20.91	20.98		
5	16QAM	12	7	20.97	21.14	20.97		
5	16QAM	12	13	21.02	21.07	20.94	21.8	2
5	16QAM	25	0	20.95	21.01	20.98		
5	64QAM	1	0	20.86	20.95	21.03		
5	64QAM	1	12	20.90	20.98	21.03	21.8	2
5	64QAM	1	24	20.82	20.95	20.94		
5	64QAM	12	0	19.76	19.77	19.85		
5	64QAM	12	7	19.82	19.89	19.89	20.8	3
5	64QAM	12	13	19.79	19.85	19.89		
5	64QAM	25	0	19.75	19.73	19.81		
5	256QAM	1	0	17.83	17.94	17.80	18.8	2
5	256QAM	1	12	17.75	17.85	17.74		
5	256QAM	1	24	17.85	17.84	17.61		
5	256QAM	12	0	17.92	17.82	17.83	18.8	3
5	256QAM	12	7	17.94	17.86	17.87		
5	256QAM	12	13	17.81	17.85	17.85		
5	256QAM	25	0	17.77	17.94	17.86	Tune-up limit (dBm)	MPR (dB)
Channel				26705	26865	27025		
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.86	22.94	22.84	23.8	0
3	QPSK	1	8	22.98	22.96	22.97		
3	QPSK	1	14	22.81	22.87	22.83		
3	QPSK	8	0	21.93	21.88	21.95	22.8	1
3	QPSK	8	4	21.91	21.95	21.96		
3	QPSK	8	7	21.94	21.98	21.89		
3	QPSK	15	0	21.92	21.85	21.94	22.8	1
3	16QAM	1	0	22.39	21.99	22.45		
3	16QAM	1	8	22.13	22.18	22.40		
3	16QAM	1	14	21.99	22.01	22.34	21.8	2
3	16QAM	8	0	21.07	21.01	21.00		
3	16QAM	8	4	21.11	21.17	21.01		
3	16QAM	8	7	21.04	21.12	21.00	21.8	2
3	16QAM	15	0	21.04	21.11	20.90		
3	64QAM	1	0	20.91	20.85	20.99		
3	64QAM	1	8	20.94	21.03	21.02	21.8	2
3	64QAM	1	14	20.83	20.97	20.93		



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3	64QAM	8	0	19.79	19.81	19.89	20.8	3
3	64QAM	8	4	19.82	19.87	19.92		
3	64QAM	8	7	19.76	19.84	19.87		
3	64QAM	15	0	19.77	19.77	19.85		
3	256QAM	1	0	17.78	17.89	17.71	18.8	2
3	256QAM	1	8	17.75	17.77	17.72		
3	256QAM	1	14	17.83	17.76	17.55		
3	256QAM	8	0	17.91	17.81	17.75	18.8	3
3	256QAM	8	4	17.86	17.83	17.83		
3	256QAM	8	7	17.75	17.82	17.83		
3	256QAM	15	0	17.69	17.93	17.85		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.78	22.68	22.67	23.8	0
1.4	QPSK	1	3	22.85	22.87	22.84		
1.4	QPSK	1	5	22.82	22.83	22.69		
1.4	QPSK	3	0	22.84	22.77	22.75		
1.4	QPSK	3	1	22.86	22.88	22.73		
1.4	QPSK	3	3	22.86	22.87	22.75		
1.4	QPSK	6	0	21.89	21.80	21.86	22.8	1
1.4	16QAM	1	0	22.07	22.02	22.03	22.8	1
1.4	16QAM	1	3	22.17	22.15	22.02		
1.4	16QAM	1	5	22.12	22.07	22.01		
1.4	16QAM	3	0	21.99	21.87	21.80		
1.4	16QAM	3	1	21.94	21.86	21.92		
1.4	16QAM	3	3	21.97	21.87	21.86		
1.4	16QAM	6	0	21.02	20.89	20.94	21.8	2
1.4	64QAM	1	0	20.89	20.79	20.91	21.8	2
1.4	64QAM	1	3	20.94	20.94	20.94		
1.4	64QAM	1	5	20.84	20.88	20.89		
1.4	64QAM	3	0	20.84	20.76	20.83		
1.4	64QAM	3	1	20.86	20.84	20.89		
1.4	64QAM	3	3	20.83	20.83	20.85		
1.4	64QAM	6	0	19.69	19.71	19.74	20.8	3
1.4	256QAM	1	0	17.77	17.81	17.69	18.8	0
1.4	256QAM	1	3	17.65	17.72	17.70		
1.4	256QAM	1	5	17.73	17.72	17.52		
1.4	256QAM	3	0	17.83	17.78	17.71		
1.4	256QAM	3	1	17.83	17.76	17.73		
1.4	256QAM	3	3	17.65	17.82	17.83		
1.4	256QAM	6	0	17.68	17.90	17.77	18.8	0



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		23.15		23.8	0
10	QPSK	1	25		23.11			
10	QPSK	1	49		23.00			
10	QPSK	25	0		22.09		22.8	1
10	QPSK	25	12		22.15			
10	QPSK	25	25		22.04			
10	QPSK	50	0		22.08		22.8	1
10	16QAM	1	0		22.79			
10	16QAM	1	25		22.65			
10	16QAM	1	49		22.60		21.8	2
10	16QAM	25	0		21.04			
10	16QAM	25	12		21.14			
10	16QAM	25	25		21.07		21.8	2
10	16QAM	50	0		21.01			
10	64QAM	1	0		21.03		21.8	2
10	64QAM	1	25		21.10			
10	64QAM	1	49		20.98			
10	64QAM	25	0		19.80		20.8	3
10	64QAM	25	12		19.87			
10	64QAM	25	25		19.77			
10	64QAM	50	0		19.79		18.8	2
10	256QAM	1	0		18.15			
10	256QAM	1	25		18.11			
10	256QAM	1	49		18.00		18.8	3
10	256QAM	25	0		18.09			
10	256QAM	25	12		18.15			
10	256QAM	25	25		18.04		18.8	3
10	256QAM	50	0		18.08			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	22.91	22.95	23.11	23.8	0
5	QPSK	1	12	23.13	23.12	23.12		
5	QPSK	1	24	22.97	23.10	22.95		
5	QPSK	12	0	22.16	22.05	22.08	22.8	1
5	QPSK	12	7	22.20	22.14	22.21		
5	QPSK	12	13	22.19	22.07	22.13		
5	QPSK	25	0	22.11	22.13	22.19	22.8	1
5	16QAM	1	0	22.20	22.12	22.12		
5	16QAM	1	12	22.28	22.21	22.24		
5	16QAM	1	24	22.14	22.11	22.08	21.8	2
5	16QAM	12	0	21.16	21.14	21.16		
5	16QAM	12	7	21.30	21.15	21.19		
5	16QAM	12	13	21.20	21.12	21.12	21.8	2
5	16QAM	25	0	21.14	21.11	21.11		
5	64QAM	1	0	20.91	21.00	21.05		
5	64QAM	1	12	21.04	21.06	21.04	21.8	2
5	64QAM	1	24	21.00	20.92	20.93		
5	64QAM	12	0	19.93	19.90	19.92	20.8	3
5	64QAM	12	7	19.99	19.92	19.95		
5	64QAM	12	13	19.92	19.87	19.92		
5	64QAM	25	0	19.90	19.86	19.90		



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5	256QAM	1	0	18.13	18.09	18.06	18.8	2
5	256QAM	1	12	18.06	18.03	18.01		
5	256QAM	1	24	17.94	17.93	18.00		
5	256QAM	12	0	18.00	18.00	18.06	18.8	3
5	256QAM	12	7	18.14	18.09	18.10		
5	256QAM	12	13	17.99	17.94	17.98		
5	256QAM	25	0	18.06	18.07	18.00		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	22.67	23.03	22.90	23.8	0
20	QPSK	1	49	22.89	22.96	22.94		
20	QPSK	1	99	22.57	22.85	22.79		
20	QPSK	50	0	21.95	21.98	22.05	22.8	1
20	QPSK	50	24	22.08	22.18	22.16		
20	QPSK	50	50	21.93	21.94	22.03		
20	QPSK	100	0	21.97	22.10	22.09	22.8	1
20	16QAM	1	0	22.05	22.02	22.38		
20	16QAM	1	49	22.19	22.30	22.36		
20	16QAM	1	99	21.70	21.84	22.35	21.8	2
20	16QAM	50	0	20.95	21.12	21.17		
20	16QAM	50	24	20.93	21.09	21.26		
20	16QAM	50	50	20.99	21.07	21.15	21.8	2
20	16QAM	100	0	21.01	21.11	21.14		
20	64QAM	1	0	20.93	21.07	21.30		
20	64QAM	1	49	21.20	21.34	21.25	21.8	2
20	64QAM	1	99	20.89	21.07	21.14		
20	64QAM	50	0	20.08	20.21	20.13	20.8	3
20	64QAM	50	24	20.18	20.25	20.11		
20	64QAM	50	50	20.05	20.16	20.06		
20	64QAM	100	0	20.09	20.21	20.11	18.8	2
20	256QAM	1	0	17.67	18.03	17.90		
20	256QAM	1	49	17.89	17.96	17.94		
20	256QAM	1	99	17.57	17.85	17.79	18.8	3
20	256QAM	50	0	17.95	17.98	18.05		
20	256QAM	50	24	18.08	18.09	18.06		
20	256QAM	50	50	17.93	17.94	18.03	18.8	3
20	256QAM	100	0	17.97	18.10	18.09		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	22.70	22.89	23.01	23.8	0
15	QPSK	1	37	22.88	22.97	23.01		
15	QPSK	1	74	22.75	22.72	22.94		
15	QPSK	36	0	21.95	22.08	22.22	22.8	1
15	QPSK	36	20	22.01	22.18	22.20		
15	QPSK	36	39	21.99	21.98	22.10		
15	QPSK	75	0	21.96	22.04	22.16	22.8	1
15	16QAM	1	0	21.99	22.38	22.68		
15	16QAM	1	37	22.37	22.56	22.62		
15	16QAM	1	74	21.96	22.49	22.50	21.8	2
15	16QAM	36	0	20.99	21.08	21.20		
15	16QAM	36	20	21.07	21.14	21.27		
15	16QAM	36	39	20.95	21.01	21.13	21.8	2
15	16QAM	75	0	20.94	21.15	21.22		
15	64QAM	1	0	21.09	21.22	21.30		
15	64QAM	1	37	21.26	21.33	21.30	21.8	2
15	64QAM	1	74	21.00	21.10	21.13		
15	64QAM	36	0	20.13	20.29	20.17	20.8	3
15	64QAM	36	20	20.15	20.31	20.20		
15	64QAM	36	39	20.10	20.24	20.11		
15	64QAM	75	0	20.12	20.27	20.14	20.8	3



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15	256QAM	1	0	17.63	18.03	17.80	18.8	2
15	256QAM	1	37	17.79	17.93	17.88		
15	256QAM	1	74	17.47	17.76	17.70		
15	256QAM	36	0	17.87	17.97	18.03	18.8	3
15	256QAM	36	20	18.06	18.08	18.02		
15	256QAM	36	39	17.85	17.89	18.01		
15	256QAM	75	0	17.94	18.03	17.99	Tune-up limit (dBm)	MPR (dB)
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	22.38	22.50	22.70	23.8	0
10	QPSK	1	25	22.74	22.93	22.81		
10	QPSK	1	49	22.36	22.59	22.56		
10	QPSK	25	0	21.71	21.78	21.76	22.8	1
10	QPSK	25	12	21.83	21.88	21.97		
10	QPSK	25	25	21.72	21.77	21.83		
10	QPSK	50	0	21.72	21.89	21.96	22.8	1
10	16QAM	1	0	21.58	21.78	21.69		
10	16QAM	1	25	21.83	21.84	21.91		
10	16QAM	1	49	21.56	21.75	21.58	21.8	2
10	16QAM	25	0	20.75	20.80	20.76		
10	16QAM	25	12	20.85	20.95	21.02		
10	16QAM	25	25	20.70	20.86	20.87	21.8	2
10	16QAM	50	0	20.75	20.84	20.95		
10	64QAM	1	0	20.71	20.92	20.77		
10	64QAM	1	25	21.09	21.20	21.05	21.8	2
10	64QAM	1	49	20.81	20.95	20.86		
10	64QAM	25	0	19.81	19.98	19.83	20.8	3
10	64QAM	25	12	19.97	20.08	19.98		
10	64QAM	25	25	19.83	19.96	19.81		
10	64QAM	50	0	19.89	20.02	19.88	18.8	2
10	256QAM	1	0	17.58	17.99	17.74		
10	256QAM	1	25	17.75	17.88	17.84		
10	256QAM	1	49	17.44	17.73	17.60	18.8	3
10	256QAM	25	0	17.79	17.92	18.02		
10	256QAM	25	12	18.03	17.99	17.95		
10	256QAM	25	25	17.75	17.84	17.93	Tune-up limit (dBm)	MPR (dB)
10	256QAM	50	0	17.91	17.99	17.93		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	22.57	22.72	22.74	23.8	0
5	QPSK	1	12	22.70	22.79	22.88		
5	QPSK	1	24	22.56	22.77	22.76		
5	QPSK	12	0	21.75	21.86	21.90	22.8	1
5	QPSK	12	7	21.79	21.91	22.01		
5	QPSK	12	13	21.78	21.83	21.96		
5	QPSK	25	0	21.78	21.87	21.90	22.8	1
5	16QAM	1	0	22.14	22.05	22.08		
5	16QAM	1	12	22.30	22.36	22.10		
5	16QAM	1	24	22.17	22.00	21.99	21.8	2
5	16QAM	12	0	20.84	20.90	20.98		
5	16QAM	12	7	20.86	20.94	21.02		
5	16QAM	12	13	20.81	20.85	20.88	21.8	2
5	16QAM	25	0	20.82	20.85	20.91		
5	64QAM	1	0	21.01	21.16	21.03		
5	64QAM	1	12	21.06	21.18	21.02	21.8	2
5	64QAM	1	24	20.95	21.08	20.92		



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5	64QAM	12	0	19.99	20.08	19.95	20.8	3
5	64QAM	12	7	19.98	20.14	19.96		
5	64QAM	12	13	19.94	20.08	19.89		
5	64QAM	25	0	19.93	20.02	19.90		
5	256QAM	1	0	17.55	17.94	17.70	18.8	2
5	256QAM	1	12	17.71	17.81	17.84		
5	256QAM	1	24	17.40	17.64	17.54		
5	256QAM	12	0	17.79	17.86	18.00	18.8	3
5	256QAM	12	7	17.97	17.99	17.93		
5	256QAM	12	13	17.66	17.79	17.91		
5	256QAM	25	0	17.82	17.90	17.92		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	22.59	22.77	22.91	23.8	0
3	QPSK	1	8	22.74	22.78	22.93		
3	QPSK	1	14	22.61	22.82	22.69		
3	QPSK	8	0	21.79	21.80	21.95	22.8	1
3	QPSK	8	4	21.79	21.92	21.92		
3	QPSK	8	7	21.76	21.86	21.95		
3	QPSK	15	0	21.84	21.89	21.88		
3	16QAM	1	0	21.97	22.10	22.15	22.8	1
3	16QAM	1	8	22.30	22.45	22.60		
3	16QAM	1	14	21.91	21.98	22.38		
3	16QAM	8	0	20.86	20.96	20.93	21.8	2
3	16QAM	8	4	20.92	20.97	20.99		
3	16QAM	8	7	20.80	20.89	20.89		
3	16QAM	15	0	20.81	20.84	20.95		
3	64QAM	1	0	21.04	21.18	21.04	21.8	2
3	64QAM	1	8	21.07	21.20	21.06		
3	64QAM	1	14	21.00	21.15	21.00		
3	64QAM	8	0	20.00	20.07	19.91	20.8	3
3	64QAM	8	4	20.04	20.13	19.90		
3	64QAM	8	7	19.92	20.08	19.88		
3	64QAM	15	0	19.95	20.07	19.88		
3	256QAM	1	0	17.52	17.88	17.70	18.8	2
3	256QAM	1	8	17.62	17.74	17.75		
3	256QAM	1	14	17.38	17.57	17.45		
3	256QAM	8	0	17.71	17.86	18.00	18.8	3
3	256QAM	8	4	17.93	17.99	17.87		
3	256QAM	8	7	17.64	17.74	17.83		
3	256QAM	15	0	17.72	17.89	17.86		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	22.59	22.76	22.77	23.8	0
1.4	QPSK	1	3	22.70	22.89	22.88		
1.4	QPSK	1	5	22.62	22.78	22.81		
1.4	QPSK	3	0	22.59	22.75	22.77		
1.4	QPSK	3	1	22.64	22.79	22.83		
1.4	QPSK	3	3	22.62	22.80	22.81	22.8	1
1.4	16QAM	1	0	21.93	22.19	22.11	22.8	1
1.4	16QAM	1	3	22.15	22.11	22.26		
1.4	16QAM	1	5	22.06	22.04	22.02		
1.4	16QAM	3	0	21.72	21.98	21.93		
1.4	16QAM	3	1	21.74	22.01	22.02		
1.4	16QAM	3	3	21.62	21.96	21.96		



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1.4	16QAM	6	0	20.88	20.97	20.94	21.8	2
1.4	64QAM	1	0	20.97	21.19	20.98	21.8	2
1.4	64QAM	1	3	21.07	21.20	21.01		
1.4	64QAM	1	5	20.95	21.07	20.94		
1.4	64QAM	3	0	20.92	21.15	20.94		
1.4	64QAM	3	1	20.98	21.17	20.93		
1.4	64QAM	3	3	20.93	21.11	20.96		
1.4	64QAM	6	0	19.81	19.98	19.75	20.8	3
1.4	256QAM	1	0	17.44	17.79	17.66	18.8	0
1.4	256QAM	1	3	17.61	17.72	17.74		
1.4	256QAM	1	5	17.33	17.52	17.43		
1.4	256QAM	3	0	17.65	17.81	17.96		
1.4	256QAM	3	1	17.89	17.89	17.77		
1.4	256QAM	3	3	17.61	17.69	17.74		
1.4	256QAM	6	0	17.70	17.86	17.85	18.8	0



<LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.58	23.65	23.62	23.8	0
20	QPSK	1	49	23.55	23.62	23.55		
20	QPSK	1	99	23.42	23.45	23.47		
20	QPSK	50	0	22.53	22.66	22.61	22.8	1
20	QPSK	50	24	22.51	22.69	22.53		
20	QPSK	50	50	22.46	22.55	22.48		
20	QPSK	100	0	22.43	22.49	22.46	22.8	1
20	16QAM	1	0	22.65	22.67	22.52		
20	16QAM	1	49	22.56	22.61	22.57		
20	16QAM	1	99	22.47	22.52	22.44	21.8	2
20	16QAM	50	0	21.59	21.66	21.53		
20	16QAM	50	24	21.48	21.59	21.50		
20	16QAM	50	50	21.46	21.53	21.56	21.8	2
20	16QAM	100	0	21.38	21.40	21.44		
20	64QAM	1	0	21.59	21.73	21.71	21.8	2
20	64QAM	1	49	21.62	21.66	21.63		
20	64QAM	1	99	21.68	21.62	21.61		
20	64QAM	50	0	20.48	20.60	20.57	20.8	3
20	64QAM	50	24	20.57	20.65	20.54		
20	64QAM	50	50	20.60	20.57	20.43		
20	64QAM	100	0	20.46	20.46	20.50	18.8	2
20	256QAM	1	0	18.58	18.55	18.52		
20	256QAM	1	49	18.55	18.52	18.55		
20	256QAM	1	99	18.42	18.45	18.47	18.8	3
20	256QAM	50	0	18.53	18.56	18.51		
20	256QAM	50	24	18.51	18.60	18.53		
20	256QAM	50	50	18.46	18.55	18.48	18.8	3
20	256QAM	100	0	18.43	18.49	18.46		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.55	23.61	23.59	23.8	0
15	QPSK	1	37	23.51	23.56	23.53		
15	QPSK	1	74	23.44	23.40	23.33		
15	QPSK	36	0	22.64	22.69	22.71	22.8	1
15	QPSK	36	20	22.56	22.60	22.63		
15	QPSK	36	39	22.52	22.57	22.49		
15	QPSK	75	0	22.52	22.54	22.45	22.8	1
15	16QAM	1	0	22.77	22.73	22.65		
15	16QAM	1	37	22.73	22.60	22.78		
15	16QAM	1	74	22.54	22.77	22.67	21.8	2
15	16QAM	36	0	21.78	21.71	21.77		
15	16QAM	36	20	21.59	21.68	21.56		
15	16QAM	36	39	21.56	21.62	21.52	21.8	2
15	16QAM	75	0	21.44	21.58	21.49		
15	64QAM	1	0	21.70	21.66	21.80		
15	64QAM	1	37	21.68	21.62	21.67	21.8	2
15	64QAM	1	74	21.57	21.57	21.62		
15	64QAM	36	0	20.41	20.58	20.55	20.8	3
15	64QAM	36	20	20.56	20.61	20.54		
15	64QAM	36	39	20.48	20.55	20.55		
15	64QAM	75	0	20.53	20.41	20.49	20.8	3



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15	256QAM	1	0	18.52	18.46	18.42	18.8	2
15	256QAM	1	37	18.54	18.45	18.55		
15	256QAM	1	74	18.33	18.36	18.45		
15	256QAM	36	0	18.49	18.51	18.50	18.8	3
15	256QAM	36	20	18.51	18.52	18.43		
15	256QAM	36	39	18.37	18.45	18.48		
15	256QAM	75	0	18.38	18.39	18.44	Tune-up limit (dBm)	MPR (dB)
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.44	23.49	23.50	23.8	0
10	QPSK	1	25	23.35	23.37	23.45		
10	QPSK	1	49	23.29	23.21	23.32		
10	QPSK	25	0	22.42	22.40	22.44	22.8	1
10	QPSK	25	12	22.46	22.51	22.56		
10	QPSK	25	25	22.50	22.46	22.45		
10	QPSK	50	0	22.34	22.43	22.39	22.8	1
10	16QAM	1	0	22.64	22.71	22.57		
10	16QAM	1	25	22.59	22.56	22.62		
10	16QAM	1	49	22.73	22.52	22.53	21.8	2
10	16QAM	25	0	21.30	21.54	21.44		
10	16QAM	25	12	21.38	21.47	21.50		
10	16QAM	25	25	21.40	21.43	21.40	21.8	2
10	16QAM	50	0	21.25	21.36	21.44		
10	64QAM	1	0	21.45	21.55	21.63		
10	64QAM	1	25	21.56	21.45	21.52	21.8	2
10	64QAM	1	49	21.60	21.51	21.44		
10	64QAM	25	0	20.27	20.26	20.41	20.8	3
10	64QAM	25	12	20.48	20.45	20.34		
10	64QAM	25	25	20.31	20.35	20.40		
10	64QAM	50	0	20.32	20.35	20.33	18.8	2
10	256QAM	1	0	18.44	18.38	18.40		
10	256QAM	1	25	18.52	18.35	18.53		
10	256QAM	1	49	18.27	18.32	18.40	18.8	3
10	256QAM	25	0	18.46	18.41	18.46		
10	256QAM	25	12	18.42	18.52	18.35		
10	256QAM	25	25	18.34	18.38	18.39	18.8	3
10	256QAM	50	0	18.30	18.39	18.40		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.45	23.50	23.53	23.8	0
5	QPSK	1	12	23.43	23.40	23.43		
5	QPSK	1	24	23.29	23.39	23.40		
5	QPSK	12	0	22.56	22.43	22.45	22.8	1
5	QPSK	12	7	22.41	22.39	22.34		
5	QPSK	12	13	22.50	22.48	22.43		
5	QPSK	25	0	22.39	22.43	22.39	22.8	1
5	16QAM	1	0	22.52	22.49	22.51		
5	16QAM	1	12	22.53	22.43	22.39		
5	16QAM	1	24	22.43	22.46	22.33	21.8	2
5	16QAM	12	0	21.44	21.37	21.42		
5	16QAM	12	7	21.50	21.48	21.43		
5	16QAM	12	13	21.39	21.43	21.39	21.8	2
5	16QAM	25	0	21.34	21.44	21.29		
5	64QAM	1	0	21.40	21.27	21.31		
5	64QAM	1	12	21.44	21.47	21.37	21.8	2
5	64QAM	1	24	21.48	21.52	21.44		



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5	64QAM	12	0	20.31	20.34	20.25	20.8	3
5	64QAM	12	7	20.36	20.43	20.40		
5	64QAM	12	13	20.38	20.41	20.34		
5	64QAM	25	0	20.41	20.43	20.23		
5	256QAM	1	0	18.40	18.36	18.37	18.8	2
5	256QAM	1	12	18.46	18.34	18.53		
5	256QAM	1	24	18.27	18.29	18.30		
5	256QAM	12	0	18.39	18.37	18.38	18.8	3
5	256QAM	12	7	18.39	18.49	18.30		
5	256QAM	12	13	18.34	18.29	18.37		
5	256QAM	25	0	18.30	18.39	18.40		

**UAT Reduced Power Mode for Next-to-Head****<LTE Band 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	12.73	12.87	12.74	13.5	0
20	QPSK	1	49	12.61	12.81	12.76		
20	QPSK	1	99	12.49	12.67	12.58		
20	QPSK	50	0	12.71	12.78	12.73	13.5	0
20	QPSK	50	24	12.82	12.83	12.77		
20	QPSK	50	50	12.75	12.84	12.81		
20	QPSK	100	0	12.64	12.73	12.69	13.5	0
20	16QAM	1	0	12.73	12.80	12.80		
20	16QAM	1	49	12.73	12.84	12.85		
20	16QAM	1	99	12.60	12.77	12.73	13.5	0
20	16QAM	50	0	12.71	12.83	12.80		
20	16QAM	50	24	12.84	12.81	12.79		
20	16QAM	50	50	12.85	12.86	12.84	13.5	0
20	16QAM	100	0	12.80	12.79	12.84		
20	64QAM	1	0	12.63	12.73	12.65		
20	64QAM	1	49	12.58	12.79	12.66	13.5	0
20	64QAM	1	99	12.48	12.69	12.59		
20	64QAM	50	0	12.34	12.56	12.51		
20	64QAM	50	24	12.50	12.62	12.68	13.5	0
20	64QAM	50	50	12.46	12.67	12.58		
20	64QAM	100	0	12.44	12.57	12.58		
20	256QAM	1	0	12.64	12.85	12.64	13.5	0
20	256QAM	1	49	12.66	12.78	12.71		
20	256QAM	1	99	12.70	12.77	12.64		
20	256QAM	50	0	12.69	12.77	12.66	13.5	0
20	256QAM	50	24	12.68	12.82	12.66		
20	256QAM	50	50	12.65	12.80	12.64		
20	256QAM	100	0	12.68	12.77	12.69	Tune-up limit (dBm)	MPR (dB)
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	12.32	12.56	12.60		
15	QPSK	1	37	12.41	12.53	12.56	13.5	0
15	QPSK	1	74	12.26	12.58	12.57		
15	QPSK	36	0	12.43	12.55	12.57		
15	QPSK	36	20	12.56	12.65	12.64	13.5	0
15	QPSK	36	39	12.54	12.69	12.70		
15	QPSK	75	0	12.51	12.59	12.58		
15	16QAM	1	0	12.51	12.76	12.77	13.5	0
15	16QAM	1	37	12.66	12.81	12.78		
15	16QAM	1	74	12.60	12.79	12.72		
15	16QAM	36	0	12.28	12.43	12.41	13.5	0
15	16QAM	36	20	12.43	12.48	12.50		
15	16QAM	36	39	12.42	12.55	12.52		
15	16QAM	75	0	12.42	12.45	12.46	13.5	0
15	64QAM	1	0	12.35	12.71	12.69		
15	64QAM	1	37	12.55	12.66	12.58		
15	64QAM	1	74	12.50	12.67	12.56	13.5	0
15	64QAM	36	0	12.31	12.43	12.42		
15	64QAM	36	20	12.44	12.47	12.50		
15	64QAM	36	39	12.42	12.55	12.53	Tune-up limit (dBm)	MPR (dB)



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15	64QAM	75	0	12.41	12.46	12.46		
15	256QAM	1	0	12.28	12.55	12.54	13.5	0
15	256QAM	1	37	12.28	12.53	12.59		
15	256QAM	1	74	12.28	12.47	12.54		
15	256QAM	36	0	12.28	12.52	12.54	13.5	0
15	256QAM	36	20	12.29	12.56	12.51		
15	256QAM	36	39	12.29	12.52	12.50		
15	256QAM	75	0	12.27	12.56	12.55		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	11.97	12.12	12.43	13.5	0
10	QPSK	1	25	12.25	12.41	12.37		
10	QPSK	1	49	11.95	12.11	12.45		
10	QPSK	25	0	12.19	12.32	12.37	13.5	0
10	QPSK	25	12	12.39	12.45	12.48		
10	QPSK	25	25	12.25	12.43	12.43		
10	QPSK	50	0	12.30	12.35	12.44		
10	16QAM	1	0	12.19	12.36	12.68	13.5	0
10	16QAM	1	25	12.51	12.64	12.63		
10	16QAM	1	49	12.26	12.40	12.62		
10	16QAM	25	0	12.09	12.25	12.21	13.5	0
10	16QAM	25	12	12.31	12.32	12.44		
10	16QAM	25	25	12.17	12.31	12.31		
10	16QAM	50	0	12.20	12.27	12.28		
10	64QAM	1	0	12.13	12.31	12.66	13.5	0
10	64QAM	1	25	12.52	12.70	12.59		
10	64QAM	1	49	12.27	12.37	12.60		
10	64QAM	25	0	12.13	12.27	12.25	13.5	0
10	64QAM	25	12	12.29	12.37	12.43		
10	64QAM	25	25	12.15	12.30	12.29		
10	64QAM	50	0	12.16	12.23	12.29		
10	256QAM	1	0	11.90	12.02	12.43	13.5	0
10	256QAM	1	25	11.93	12.03	12.37		
10	256QAM	1	49	11.95	12.10	12.43		
10	256QAM	25	0	11.90	12.09	12.39	13.5	0
10	256QAM	25	12	11.91	12.04	12.42		
10	256QAM	25	25	11.87	12.11	12.41		
10	256QAM	50	0	11.95	12.10	12.36		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	12.20	12.30	12.30	13.5	0
5	QPSK	1	12	12.28	12.47	12.43		
5	QPSK	1	24	12.18	12.35	12.32		
5	QPSK	12	0	12.34	12.45	12.42	13.5	0
5	QPSK	12	7	12.39	12.48	12.50		
5	QPSK	12	13	12.33	12.51	12.50		
5	QPSK	25	0	12.35	12.45	12.42		
5	16QAM	1	0	12.47	12.57	12.56	13.5	0
5	16QAM	1	12	12.56	12.64	12.68		
5	16QAM	1	24	12.44	12.56	12.57		
5	16QAM	12	0	12.35	12.43	12.38	13.5	0
5	16QAM	12	7	12.36	12.39	12.40		
5	16QAM	12	13	12.24	12.37	12.35		
5	16QAM	25	0	12.29	12.37	12.31		
5	64QAM	1	0	12.40	12.44	12.43	13.5	0
5	64QAM	1	12	12.47	12.57	12.55		



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5	64QAM	1	24	12.32	12.43	12.40		
5	64QAM	12	0	12.29	12.38	12.35	13.5	0
5	64QAM	12	7	12.28	12.38	12.35		
5	64QAM	12	13	12.22	12.32	12.32		
5	64QAM	25	0	12.29	12.38	12.31		
5	256QAM	1	0	12.16	12.27	12.20	13.5	0
5	256QAM	1	12	12.15	12.25	12.22		
5	256QAM	1	24	12.20	12.25	12.29		
5	256QAM	12	0	12.16	12.25	12.20	13.5	0
5	256QAM	12	7	12.12	12.29	12.23		
5	256QAM	12	13	12.11	12.26	12.28		
5	256QAM	25	0	12.16	12.30	12.27		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	12.25	12.35	12.37	13.5	0
3	QPSK	1	8	12.36	12.53	12.49		
3	QPSK	1	14	12.24	12.40	12.38		
3	QPSK	8	0	12.36	12.47	12.48	13.5	0
3	QPSK	8	4	12.40	12.50	12.54		
3	QPSK	8	7	12.32	12.51	12.51		
3	QPSK	15	0	12.34	12.47	12.49		
3	16QAM	1	0	12.55	12.59	12.65	13.5	0
3	16QAM	1	8	12.57	12.76	12.73		
3	16QAM	1	14	12.47	12.61	12.57		
3	16QAM	8	0	12.35	12.43	12.46	13.5	0
3	16QAM	8	4	12.37	12.44	12.49		
3	16QAM	8	7	12.29	12.44	12.39		
3	16QAM	15	0	12.29	12.37	12.39		
3	64QAM	1	0	12.44	12.52	12.51	13.5	0
3	64QAM	1	8	12.50	12.60	12.62		
3	64QAM	1	14	12.34	12.47	12.45		
3	64QAM	8	0	12.31	12.40	12.40	13.5	0
3	64QAM	8	4	12.32	12.38	12.43		
3	64QAM	8	7	12.26	12.38	12.34		
3	64QAM	15	0	12.26	12.36	12.37		
3	256QAM	1	0	12.24	12.32	12.29	13.5	0
3	256QAM	1	8	12.15	12.33	12.30		
3	256QAM	1	14	12.19	12.31	12.34		
3	256QAM	8	0	12.18	12.31	12.32	13.5	0
3	256QAM	8	4	12.19	12.33	12.28		
3	256QAM	8	7	12.25	12.34	12.28		
3	256QAM	15	0	12.16	12.31	12.37		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	12.20	12.38	12.33	13.5	0
1.4	QPSK	1	3	12.28	12.45	12.41		
1.4	QPSK	1	5	12.20	12.36	12.33		
1.4	QPSK	3	0	12.26	12.41	12.36		
1.4	QPSK	3	1	12.26	12.44	12.40		
1.4	QPSK	3	3	12.23	12.39	12.36		
1.4	QPSK	6	0	12.32	12.47	12.43	13.5	0
1.4	16QAM	1	0	12.51	12.60	12.57	13.5	0
1.4	16QAM	1	3	12.47	12.67	12.59		
1.4	16QAM	1	5	12.45	12.54	12.50		
1.4	16QAM	3	0	12.25	12.41	12.32		
1.4	16QAM	3	1	12.32	12.42	12.36		



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1.4	16QAM	3	3	12.21	12.31	12.28		
1.4	16QAM	6	0	12.27	12.42	12.35	13.5	0
1.4	64QAM	1	0	12.38	12.50	12.49	13.5	0
1.4	64QAM	1	3	12.45	12.54	12.55		
1.4	64QAM	1	5	12.40	12.51	12.43		
1.4	64QAM	3	0	12.38	12.51	12.44		
1.4	64QAM	3	1	12.42	12.53	12.46		
1.4	64QAM	3	3	12.36	12.45	12.39		
1.4	64QAM	6	0	12.27	12.37	12.31	13.5	0
1.4	256QAM	1	0	12.10	12.33	12.26	13.5	0
1.4	256QAM	1	3	12.16	12.28	12.29		
1.4	256QAM	1	5	12.18	12.30	12.30		
1.4	256QAM	3	0	12.20	12.38	12.29		
1.4	256QAM	3	1	12.16	12.31	12.32		
1.4	256QAM	3	3	12.20	12.37	12.24		
1.4	256QAM	6	0	12.19	12.32	12.26	13.5	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	13	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	11.64	11.89	11.79		
20	QPSK	1	49	11.72	11.87	11.65	13	0
20	QPSK	1	99	11.80	11.71	11.78		
20	QPSK	50	0	11.64	11.72	11.76		
20	QPSK	50	24	11.58	11.81	11.71	13	0
20	QPSK	50	50	11.76	11.76	11.73		
20	QPSK	100	0	11.71	11.76	11.61		
20	16QAM	1	0	11.64	11.70	11.74	13	0
20	16QAM	1	49	11.76	11.80	11.77		
20	16QAM	1	99	11.74	11.77	11.84		
20	16QAM	50	0	11.72	11.77	11.82	13	0
20	16QAM	50	24	11.70	11.75	11.75		
20	16QAM	50	50	11.80	11.71	11.71		
20	16QAM	100	0	11.73	11.71	11.74	13	0
20	64QAM	1	0	11.63	11.70	11.70		
20	64QAM	1	49	11.81	11.87	11.86		
20	64QAM	1	99	11.64	11.75	11.70	13	0
20	64QAM	50	0	11.63	11.81	11.83		
20	64QAM	50	24	11.78	11.87	11.87		
20	64QAM	50	50	11.69	11.83	11.86	13	0
20	64QAM	100	0	11.67	11.79	11.88		
20	256QAM	1	0	11.58	11.76	11.78		
20	256QAM	1	49	11.61	11.75	11.77	13	0
20	256QAM	1	99	11.54	11.71	11.75		
20	256QAM	50	0	11.55	11.79	11.69		
20	256QAM	50	24	11.54	11.73	11.75	13	0
20	256QAM	50	50	11.57	11.76	11.78		
20	256QAM	100	0	11.55	11.78	11.75		
Channel				20025	20175	20325	13	0
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	11.54	11.69	11.76		
15	QPSK	1	37	11.63	11.79	11.81	13	0
15	QPSK	1	74	11.46	11.61	11.63		
15	QPSK	36	0	11.46	11.62	11.66		
15	QPSK	36	20	11.59	11.68	11.78	13	0
15	QPSK	36	39	11.55	11.69	11.72		
15	QPSK	75	0	11.56	11.62	11.67		
15	16QAM	1	0	11.67	11.84	11.80	13	0
15	16QAM	1	37	11.60	11.71	11.78		
15	16QAM	1	74	11.60	11.72	11.78		
15	16QAM	36	0	11.46	11.64	11.68	13	0
15	16QAM	36	20	11.61	11.64	11.80		
15	16QAM	36	39	11.54	11.71	11.72		
15	16QAM	75	0	11.56	11.63	11.65	13	0
15	64QAM	1	0	11.55	11.77	11.77		
15	64QAM	1	37	11.62	11.77	11.81		
15	64QAM	1	74	11.64	11.76	11.83	13	0
15	64QAM	36	0	11.55	11.75	11.81		
15	64QAM	36	20	11.69	11.78	11.87		
15	64QAM	36	39	11.69	11.81	11.87	13	0
15	64QAM	75	0	11.61	11.74	11.78		



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15	256QAM	1	0	11.54	11.66	11.73	13	0
15	256QAM	1	37	11.51	11.68	11.74		
15	256QAM	1	74	11.52	11.67	11.76		
15	256QAM	36	0	11.48	11.67	11.74	13	0
15	256QAM	36	20	11.48	11.60	11.76		
15	256QAM	36	39	11.44	11.69	11.66		
15	256QAM	75	0	11.52	11.64	11.75	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	11.67	11.88	11.80	13	0
10	QPSK	1	25	11.72	11.78	11.73		
10	QPSK	1	49	11.65	11.83	11.83		
10	QPSK	25	0	11.66	11.53	11.62	13	0
10	QPSK	25	12	11.67	11.75	11.80		
10	QPSK	25	25	11.57	11.74	11.76		
10	QPSK	50	0	11.58	11.67	11.71	13	0
10	16QAM	1	0	11.63	11.83	11.81		
10	16QAM	1	25	11.80	11.81	11.79		
10	16QAM	1	49	11.65	11.81	11.82	13	0
10	16QAM	25	0	11.50	11.69	11.68		
10	16QAM	25	12	11.67	11.77	11.80		
10	16QAM	25	25	11.54	11.73	11.81	13	0
10	16QAM	50	0	11.78	11.88	11.80		
10	64QAM	1	0	11.69	11.75	11.81		
10	64QAM	1	25	11.68	11.83	11.79	13	0
10	64QAM	1	49	11.62	11.77	11.83		
10	64QAM	25	0	11.61	11.83	11.87		
10	64QAM	25	12	11.61	11.75	11.83	13	0
10	64QAM	25	25	11.66	11.86	11.80		
10	64QAM	50	0	11.70	11.71	11.74		
10	256QAM	1	0	11.62	11.73	11.70	13	0
10	256QAM	1	25	11.57	11.79	11.78		
10	256QAM	1	49	11.67	11.74	11.75		
10	256QAM	25	0	11.57	11.78	11.78	13	0
10	256QAM	25	12	11.57	11.72	11.78		
10	256QAM	25	25	11.67	11.79	11.71		
10	256QAM	50	0	11.58	11.77	11.75	Tune-up limit (dBm)	MPR (dB)
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	11.68	11.83	11.81	13	0
5	QPSK	1	12	11.79	11.77	11.76		
5	QPSK	1	24	11.73	11.80	11.81		
5	QPSK	12	0	11.79	11.74	11.78	13	0
5	QPSK	12	7	11.64	11.82	11.81		
5	QPSK	12	13	11.63	11.79	11.84		
5	QPSK	25	0	11.63	11.74	11.74	13	0
5	16QAM	1	0	11.86	11.79	11.69		
5	16QAM	1	12	11.81	11.81	11.76		
5	16QAM	1	24	11.83	11.75	11.73	13	0
5	16QAM	12	0	11.62	11.78	11.80		
5	16QAM	12	7	11.72	11.83	11.84		
5	16QAM	12	13	11.67	11.84	11.83	13	0
5	16QAM	25	0	11.64	11.73	11.76		
5	64QAM	1	0	11.71	11.82	11.80		
5	64QAM	1	12	11.73	11.79	11.82	13	0
5	64QAM	1	24	11.59	11.88	11.77		



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5	64QAM	12	0	11.61	11.78	11.78	13	0
5	64QAM	12	7	11.63	11.83	11.79		
5	64QAM	12	13	11.56	11.80	11.75		
5	64QAM	25	0	11.55	11.72	11.69		
5	256QAM	1	0	11.59	11.82	11.75	13	0
5	256QAM	1	12	11.62	11.80	11.81		
5	256QAM	1	24	11.68	11.74	11.72		
5	256QAM	12	0	11.61	11.74	11.72	13	0
5	256QAM	12	7	11.58	11.79	11.78		
5	256QAM	12	13	11.61	11.76	11.81		
5	256QAM	25	0	11.67	11.76	11.74		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	11.72	11.72	11.70	13	0
3	QPSK	1	8	11.79	11.79	11.78		
3	QPSK	1	14	11.74	11.74	11.71		
3	QPSK	8	0	11.82	11.82	11.79	13	0
3	QPSK	8	4	11.85	11.85	11.84		
3	QPSK	8	7	11.81	11.81	11.82		
3	QPSK	15	0	11.85	11.85	11.81		
3	16QAM	1	0	11.87	11.87	11.63	13	0
3	16QAM	1	8	11.83	11.73	11.68		
3	16QAM	1	14	11.84	11.84	11.75		
3	16QAM	8	0	11.67	11.67	11.67	13	0
3	16QAM	8	4	11.72	11.72	11.69		
3	16QAM	8	7	11.69	11.69	11.66		
3	16QAM	15	0	11.68	11.68	11.62		
3	64QAM	1	0	11.75	11.75	11.77	13	0
3	64QAM	1	8	11.81	11.81	11.68		
3	64QAM	1	14	11.66	11.66	11.68		
3	64QAM	8	0	11.59	11.59	11.60	13	0
3	64QAM	8	4	11.82	11.82	11.62		
3	64QAM	8	7	11.75	11.75	11.78		
3	64QAM	15	0	11.76	11.76	11.79		
3	256QAM	1	0	11.69	11.69	11.63	13	0
3	256QAM	1	8	11.67	11.63	11.64		
3	256QAM	1	14	11.62	11.61	11.60		
3	256QAM	8	0	11.67	11.62	11.68	13	0
3	256QAM	8	4	11.67	11.65	11.68		
3	256QAM	8	7	11.69	11.69	11.66		
3	256QAM	15	0	11.64	11.63	11.63		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	11.64	11.84	11.84	13	0
1.4	QPSK	1	3	11.71	11.83	11.82		
1.4	QPSK	1	5	11.65	11.87	11.85		
1.4	QPSK	3	0	11.45	11.67	11.67		
1.4	QPSK	3	1	11.50	11.72	11.72		
1.4	QPSK	3	3	11.47	11.69	11.69	13	0
1.4	QPSK	6	0	11.53	11.75	11.75		
1.4	16QAM	1	0	11.58	11.80	11.74	13	0
1.4	16QAM	1	3	11.46	11.58	11.67		
1.4	16QAM	1	5	11.36	11.58	11.57		
1.4	16QAM	3	0	11.60	11.82	11.77		
1.4	16QAM	3	1	11.65	11.86	11.80		
1.4	16QAM	3	3	11.54	11.80	11.71		



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1.4	16QAM	6	0	11.63	11.83	11.82	13	0
1.4	64QAM	1	0	11.66	11.84	11.86	13	0
1.4	64QAM	1	3	11.70	11.77	11.80		
1.4	64QAM	1	5	11.62	11.87	11.73		
1.4	64QAM	3	0	11.57	11.76	11.78		
1.4	64QAM	3	1	11.63	11.86	11.86		
1.4	64QAM	3	3	11.56	11.82	11.80		
1.4	64QAM	6	0	11.49	11.67	11.70	13	0
1.4	256QAM	1	0	11.58	11.77	11.74	13	0
1.4	256QAM	1	3	11.59	11.77	11.79		
1.4	256QAM	1	5	11.63	11.74	11.77		
1.4	256QAM	3	0	11.60	11.75	11.76		
1.4	256QAM	3	1	11.62	11.74	11.75		
1.4	256QAM	3	3	11.58	11.78	11.73		
1.4	256QAM	6	0	11.60	11.73	11.76	13	0



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	19.41	19.38	19.30	20.8	0
10	QPSK	1	25	19.47	19.45	19.41		
10	QPSK	1	49	19.55	19.52	19.50		
10	QPSK	25	0	19.44	19.44	19.40	20.8	0
10	QPSK	25	12	19.54	19.50	19.46		
10	QPSK	25	25	19.47	19.45	19.39		
10	QPSK	50	0	19.50	19.43	19.38	20.8	0
10	16QAM	1	0	19.50	19.47	19.51		
10	16QAM	1	25	19.51	19.50	19.49		
10	16QAM	1	49	19.54	19.43	19.42	20.8	0
10	16QAM	25	0	19.23	19.25	19.21		
10	16QAM	25	12	19.35	19.23	19.19		
10	16QAM	25	25	19.27	19.26	19.17	20.8	0
10	16QAM	50	0	19.22	19.16	19.08		
10	64QAM	1	0	19.46	19.44	19.40	20.8	0
10	64QAM	1	25	19.45	19.50	19.42		
10	64QAM	1	49	19.48	19.43	19.26		
10	64QAM	25	0	19.29	19.27	19.21	20.8	0
10	64QAM	25	12	19.38	19.28	19.23		
10	64QAM	25	25	19.31	19.27	19.23		
10	64QAM	50	0	19.26	19.17	19.11	18.8	2
10	256QAM	1	0	17.44	17.41	17.26		
10	256QAM	1	25	17.43	17.34	17.33		
10	256QAM	1	49	17.39	17.44	17.23	18.8	2
10	256QAM	25	0	17.41	17.43	17.32		
10	256QAM	25	12	17.39	17.30	17.31		
10	256QAM	25	25	17.34	17.35	17.33	18.8	2
10	256QAM	50	0	17.40	17.43	17.35		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	19.20	19.11	19.02	20.8	0
5	QPSK	1	12	19.23	19.22	19.15		
5	QPSK	1	24	19.15	19.11	19.03		
5	QPSK	12	0	19.29	19.23	19.14	20.8	0
5	QPSK	12	7	19.34	19.29	19.17		
5	QPSK	12	13	19.30	19.23	19.20		
5	QPSK	25	0	19.30	19.18	19.11	20.8	0
5	16QAM	1	0	19.45	19.41	19.38		
5	16QAM	1	12	19.48	19.43	19.45		
5	16QAM	1	24	19.54	19.42	19.36	20.8	0
5	16QAM	12	0	19.32	19.19	19.16		
5	16QAM	12	7	19.39	19.33	19.15		
5	16QAM	12	13	19.32	19.26	19.21	20.8	0
5	16QAM	25	0	19.30	19.25	19.18		
5	64QAM	1	0	19.43	19.36	19.28		
5	64QAM	1	12	19.49	19.39	19.37	20.8	0
5	64QAM	1	24	19.50	19.37	19.24		
5	64QAM	12	0	19.39	19.29	19.23		
5	64QAM	12	7	19.41	19.43	19.27	20.8	0
5	64QAM	12	13	19.38	19.36	19.23		
5	64QAM	25	0	19.34	19.25	19.15		



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5	256QAM	1	0	17.43	17.37	17.23	18.8	2
5	256QAM	1	12	17.37	17.35	17.34		
5	256QAM	1	24	17.36	17.41	17.23		
5	256QAM	12	0	17.40	17.38	17.33	18.8	2
5	256QAM	12	7	17.38	17.30	17.29		
5	256QAM	12	13	17.37	17.37	17.34		
5	256QAM	25	0	17.39	17.40	17.30		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	19.24	19.13	19.12	20.8	0
3	QPSK	1	8	19.27	19.27	19.14		
3	QPSK	1	14	19.19	19.18	19.07		
3	QPSK	8	0	19.30	19.21	19.21	20.8	0
3	QPSK	8	4	19.36	19.33	19.26		
3	QPSK	8	7	19.31	19.28	19.20		
3	QPSK	15	0	19.29	19.21	19.18		
3	16QAM	1	0	19.45	19.42	19.47	20.8	0
3	16QAM	1	8	19.54	19.54	19.45		
3	16QAM	1	14	19.55	19.50	19.37		
3	16QAM	8	0	19.37	19.28	19.25	20.8	0
3	16QAM	8	4	19.45	19.39	19.29		
3	16QAM	8	7	19.38	19.35	19.25		
3	16QAM	15	0	19.37	19.25	19.20		
3	64QAM	1	0	19.51	19.37	19.35	20.8	0
3	64QAM	1	8	19.55	19.53	19.40		
3	64QAM	1	14	19.52	19.43	19.31		
3	64QAM	8	0	19.38	19.30	19.27	20.8	0
3	64QAM	8	4	19.42	19.35	19.27		
3	64QAM	8	7	19.39	19.37	19.25		
3	64QAM	15	0	19.36	19.31	19.27		
3	256QAM	1	0	17.40	17.36	17.26	18.8	2
3	256QAM	1	8	17.42	17.44	17.32		
3	256QAM	1	14	17.42	17.42	17.22		
3	256QAM	8	0	17.43	17.41	17.32	18.8	2
3	256QAM	8	4	17.37	17.37	17.33		
3	256QAM	8	7	17.41	17.37	17.30		
3	256QAM	15	0	17.40	17.41	17.32		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.19	19.05	19.03	20.8	0
1.4	QPSK	1	3	19.25	19.18	19.06		
1.4	QPSK	1	5	19.17	19.11	19.01		
1.4	QPSK	3	0	19.21	19.07	19.03		
1.4	QPSK	3	1	19.22	19.10	19.06		
1.4	QPSK	3	3	19.20	19.13	19.01		
1.4	QPSK	6	0	19.31	19.14	19.11	20.8	0
1.4	16QAM	1	0	19.53	19.40	19.32	20.8	0
1.4	16QAM	1	3	19.49	19.50	19.44		
1.4	16QAM	1	5	19.50	19.50	19.33		
1.4	16QAM	3	0	19.29	19.21	19.10		
1.4	16QAM	3	1	19.35	19.22	19.14		
1.4	16QAM	3	3	19.29	19.19	19.07		
1.4	16QAM	6	0	19.33	19.24	19.18	20.8	0
1.4	64QAM	1	0	19.24	19.34	19.22	20.8	0
1.4	64QAM	1	3	19.21	19.45	19.31		
1.4	64QAM	1	5	19.46	19.37	19.29		



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1.4	64QAM	3	0	19.49	19.31	19.25		
1.4	64QAM	3	1	19.50	19.34	19.29		
1.4	64QAM	3	3	19.43	19.35	19.25		
1.4	64QAM	6	0	19.32	19.20	19.14	20.8	0
1.4	256QAM	1	0	17.45	17.36	17.31	18.8	2
1.4	256QAM	1	3	17.38	17.39	17.34		
1.4	256QAM	1	5	17.33	17.36	17.27		
1.4	256QAM	3	0	17.41	17.45	17.28		
1.4	256QAM	3	1	17.45	17.33	17.32		
1.4	256QAM	3	3	17.33	17.44	17.34		
1.4	256QAM	6	0	17.36	17.35	17.31	18.8	2



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	13.8	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	13.31	13.19	13.10	13.8	0
20	QPSK	1	49	13.23	13.13	13.26		
20	QPSK	1	99	13.18	13.22	13.25		
20	QPSK	50	0	13.22	13.11	13.06	13.8	0
20	QPSK	50	24	13.29	13.26	13.19		
20	QPSK	50	50	13.23	13.28	13.23		
20	QPSK	100	0	13.27	13.06	13.25	13.8	0
20	16QAM	1	0	13.21	12.93	12.83		
20	16QAM	1	49	13.30	13.14	12.99		
20	16QAM	1	99	13.30	13.05	13.11	13.8	0
20	16QAM	50	0	12.81	12.80	12.97		
20	16QAM	50	24	12.82	12.81	12.82		
20	16QAM	50	50	12.80	12.79	12.86	13.8	0
20	16QAM	100	0	12.77	12.73	12.97		
20	64QAM	1	0	13.15	13.27	13.22		
20	64QAM	1	49	13.20	13.27	13.20	13.8	0
20	64QAM	1	99	13.27	13.19	13.20		
20	64QAM	50	0	12.99	13.00	12.96		
20	64QAM	50	24	13.09	13.03	13.01	13.8	0
20	64QAM	50	50	13.06	13.03	12.98		
20	64QAM	100	0	12.99	12.95	12.96		
20	256QAM	1	0	13.17	13.04	13.03	13.8	0
20	256QAM	1	49	13.17	13.01	13.07		
20	256QAM	1	99	13.21	13.19	13.09		
20	256QAM	50	0	13.25	13.08	13.02	13.8	0
20	256QAM	50	24	13.23	13.17	13.09		
20	256QAM	50	50	13.11	13.09	12.91		
20	256QAM	100	0	13.17	13.14	13.08	13.8	0
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5	13.8	0
15	QPSK	1	0	13.03	13.14	13.07		
15	QPSK	1	37	13.05	13.15	13.02	13.8	0
15	QPSK	1	74	13.12	13.20	13.08		
15	QPSK	36	0	13.20	13.22	13.19		
15	QPSK	36	20	13.24	13.24	13.20	13.8	0
15	QPSK	36	39	13.26	13.30	13.21		
15	QPSK	75	0	13.15	13.18	13.15		
15	16QAM	1	0	13.25	13.14	13.24	13.8	0
15	16QAM	1	37	13.27	13.26	13.28		
15	16QAM	1	74	13.26	13.27	13.27		
15	16QAM	36	0	13.20	13.24	13.22	13.8	0
15	16QAM	36	20	13.24	13.26	13.21		
15	16QAM	36	39	13.24	13.23	13.21		
15	16QAM	75	0	13.17	13.20	13.17	13.8	0
15	64QAM	1	0	13.12	13.17	13.20		
15	64QAM	1	37	13.22	13.22	13.22		
15	64QAM	1	74	13.26	13.30	13.22	13.8	0
15	64QAM	36	0	13.11	13.18	13.12		
15	64QAM	36	20	13.13	13.20	13.13		
15	64QAM	36	39	13.14	13.25	13.13	13.8	0
15	64QAM	75	0	13.04	13.06	13.04		



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15	256QAM	1	0	12.84	13.03	13.04	13.8	0
15	256QAM	1	37	13.03	13.07	12.94		
15	256QAM	1	74	12.97	12.96	13.02		
15	256QAM	36	0	12.95	13.01	12.89	13.8	0
15	256QAM	36	20	12.95	12.99	13.07		
15	256QAM	36	39	12.99	12.98	13.06		
15	256QAM	75	0	13.00	13.10	12.93		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	12.78	13.00	12.83	13.8	0
10	QPSK	1	25	12.80	13.01	12.83		
10	QPSK	1	49	12.86	13.06	12.89		
10	QPSK	25	0	12.93	13.06	12.96	13.8	0
10	QPSK	25	12	12.93	13.09	13.01		
10	QPSK	25	25	12.95	13.13	12.95		
10	QPSK	50	0	12.87	12.98	12.88		
10	16QAM	1	0	13.18	13.23	13.21	13.8	0
10	16QAM	1	25	13.17	13.30	13.21		
10	16QAM	1	49	13.24	13.30	13.25		
10	16QAM	25	0	12.93	13.06	12.98	13.8	0
10	16QAM	25	12	12.99	13.08	12.99		
10	16QAM	25	25	13.01	13.12	13.01		
10	16QAM	50	0	12.84	12.95	12.91		
10	64QAM	1	0	12.97	13.17	13.13	13.8	0
10	64QAM	1	25	13.12	13.21	13.14		
10	64QAM	1	49	13.11	13.30	13.15		
10	64QAM	25	0	12.88	13.04	12.98	13.8	0
10	64QAM	25	12	12.99	13.10	13.01		
10	64QAM	25	25	12.99	13.14	13.00		
10	64QAM	50	0	12.88	13.01	12.91		
10	256QAM	1	0	12.69	12.94	12.76	13.8	0
10	256QAM	1	25	12.68	12.96	12.75		
10	256QAM	1	49	12.66	12.84	12.81		
10	256QAM	25	0	12.74	12.97	12.63	13.8	0
10	256QAM	25	12	12.62	12.80	12.73		
10	256QAM	25	25	12.65	12.85	12.83		
10	256QAM	50	0	12.69	12.95	12.67		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	12.80	13.00	12.89	13.8	0
5	QPSK	1	12	12.79	13.04	12.89		
5	QPSK	1	24	12.83	13.08	12.95		
5	QPSK	12	0	12.85	13.05	12.94	13.8	0
5	QPSK	12	7	12.91	13.15	13.00		
5	QPSK	12	13	12.87	13.10	12.94		
5	QPSK	25	0	12.86	13.04	12.88		
5	16QAM	1	0	13.13	13.27	13.22	13.8	0
5	16QAM	1	12	13.05	13.29	13.17		
5	16QAM	1	24	13.15	13.26	13.20		
5	16QAM	12	0	12.91	13.02	12.94	13.8	0
5	16QAM	12	7	12.98	13.12	12.97		
5	16QAM	12	13	12.93	13.10	12.94		
5	16QAM	25	0	12.92	13.04	12.96		
5	64QAM	1	0	13.00	13.20	13.14	13.8	0
5	64QAM	1	12	13.00	13.21	13.08		
5	64QAM	1	24	13.02	13.23	13.06		



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5	64QAM	12	0	12.92	13.06	12.97	13.8	0
5	64QAM	12	7	13.03	13.16	13.05		
5	64QAM	12	13	12.99	13.15	12.97		
5	64QAM	25	0	12.91	13.03	12.93		
5	256QAM	1	0	12.75	12.86	12.81	13.8	0
5	256QAM	1	12	12.64	12.87	12.79		
5	256QAM	1	24	12.76	12.83	12.82		
5	256QAM	12	0	12.76	12.81	12.80	13.8	0
5	256QAM	12	7	12.74	12.88	12.76		
5	256QAM	12	13	12.69	12.85	12.79		
5	256QAM	25	0	12.78	12.84	12.86		



<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	19.19	19.23	19.21	20.3	0
10	QPSK	1	25	19.13	19.15	18.99		
10	QPSK	1	49	19.04	19.15	19.05		
10	QPSK	25	0	19.10	19.12	19.16	20.3	0
10	QPSK	25	12	19.14	19.20	19.17		
10	QPSK	25	25	19.16	19.19	19.18		
10	QPSK	50	0	19.14	19.19	19.13	20.3	0
10	16QAM	1	0	19.04	19.06	19.15		
10	16QAM	1	25	19.15	19.13	19.11		
10	16QAM	1	49	19.07	19.17	19.12	20.3	0
10	16QAM	25	0	19.05	19.12	19.20		
10	16QAM	25	12	19.20	19.13	19.21		
10	16QAM	25	25	19.16	19.20	19.14	20.3	0
10	16QAM	50	0	19.17	19.18	19.20		
10	64QAM	1	0	19.13	19.12	19.19		
10	64QAM	1	25	19.19	19.17	19.13	20.3	0
10	64QAM	1	49	19.16	19.12	19.18		
10	64QAM	25	0	19.03	18.96	19.04		
10	64QAM	25	12	19.23	19.15	19.20	20.3	0
10	64QAM	25	25	19.20	19.17	19.14		
10	64QAM	50	0	19.10	19.07	19.09		
10	256QAM	1	0	17.65	17.62	17.72	18.8	1.5
10	256QAM	1	25	17.91	17.89	17.77		
10	256QAM	1	49	17.64	17.82	17.63		
10	256QAM	25	0	17.66	17.57	17.77	18.8	1.5
10	256QAM	25	12	17.84	18.04	17.88		
10	256QAM	25	25	17.79	17.90	17.62		
10	256QAM	50	0	17.63	17.53	17.62	Tune-up limit (dBm)	MPR (dB)
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.16	19.07	19.07		
5	QPSK	1	12	19.16	19.22	19.15	20.3	0
5	QPSK	1	24	19.14	19.18	19.16		
5	QPSK	12	0	19.05	19.05	18.97		
5	QPSK	12	7	19.07	19.06	18.96	20.3	0
5	QPSK	12	13	19.05	19.09	18.99		
5	QPSK	25	0	19.04	19.04	18.96		
5	16QAM	1	0	19.14	19.18	19.20	20.3	0
5	16QAM	1	12	19.21	19.13	19.20		
5	16QAM	1	24	19.13	19.12	19.17		
5	16QAM	12	0	19.06	19.02	19.00	20.3	0
5	16QAM	12	7	19.07	19.04	19.01		
5	16QAM	12	13	19.07	19.08	19.01		
5	16QAM	25	0	19.07	19.05	19.00	20.3	0
5	64QAM	1	0	19.18	19.14	19.10		
5	64QAM	1	12	19.14	19.19	19.15		
5	64QAM	1	24	19.19	19.20	19.14	20.3	0
5	64QAM	12	0	19.13	19.09	19.06		
5	64QAM	12	7	19.15	19.09	19.05		
5	64QAM	12	13	19.12	19.12	19.06	20.3	0
5	64QAM	25	0	19.06	19.06	19.01		



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5	256QAM	1	0	17.74	17.65	17.74	18.8	1.5
5	256QAM	1	12	17.93	17.94	17.72		
5	256QAM	1	24	17.73	17.87	17.68		
5	256QAM	12	0	17.69	17.57	17.70	18.8	1.5
5	256QAM	12	7	17.82	17.97	17.88		
5	256QAM	12	13	17.80	17.90	17.62		
5	256QAM	25	0	17.64	17.61	17.62	Tune-up limit (dBm)	MPR (dB)
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	19.18	19.15	19.12	20.3	0
3	QPSK	1	8	19.20	19.20	19.17		
3	QPSK	1	14	19.12	19.19	19.08		
3	QPSK	8	0	19.17	19.20	19.18	20.3	0
3	QPSK	8	4	19.20	19.19	19.18		
3	QPSK	8	7	19.13	19.15	19.07		
3	QPSK	15	0	19.15	19.11	19.08	20.3	0
3	16QAM	1	0	19.03	19.08	19.10		
3	16QAM	1	8	19.15	19.07	19.01		
3	16QAM	1	14	19.12	19.12	19.04	20.3	0
3	16QAM	8	0	19.09	19.09	19.03		
3	16QAM	8	4	19.12	19.07	19.05		
3	16QAM	8	7	19.04	19.12	19.05	20.3	0
3	16QAM	15	0	19.10	19.12	19.12		
3	64QAM	1	0	19.14	19.11	19.09		
3	64QAM	1	8	19.15	19.07	19.09	20.3	0
3	64QAM	1	14	19.09	19.14	19.01		
3	64QAM	8	0	19.10	19.07	19.03		
3	64QAM	8	4	19.13	19.15	19.06	20.3	0
3	64QAM	8	7	19.11	19.13	19.04		
3	64QAM	15	0	19.07	19.04	19.03		
3	256QAM	1	0	17.72	17.65	17.73	18.8	1.5
3	256QAM	1	8	17.89	17.90	17.73		
3	256QAM	1	14	17.67	17.87	17.68		
3	256QAM	8	0	17.74	17.59	17.78	18.8	1.5
3	256QAM	8	4	17.83	18.00	17.84		
3	256QAM	8	7	17.80	17.91	17.67		
3	256QAM	15	0	17.57	17.61	17.57	Tune-up limit (dBm)	MPR (dB)
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	19.11	19.07	19.00	20.3	0
1.4	QPSK	1	3	19.15	19.17	19.06		
1.4	QPSK	1	5	19.08	19.15	19.02		
1.4	QPSK	3	0	19.12	19.07	19.01	20.3	0
1.4	QPSK	3	1	19.14	19.08	19.04		
1.4	QPSK	3	3	19.11	19.12	19.02		
1.4	QPSK	6	0	19.17	19.14	19.09	20.3	0
1.4	16QAM	1	0	19.20	19.18	19.16	20.3	0
1.4	16QAM	1	3	19.10	19.14	19.19		
1.4	16QAM	1	5	19.22	19.15	19.15		
1.4	16QAM	3	0	19.16	19.11	19.11	20.3	0
1.4	16QAM	3	1	19.20	19.18	19.14		
1.4	16QAM	3	3	19.18	19.12	19.09		
1.4	16QAM	6	0	19.18	19.13	19.16	20.3	0
1.4	64QAM	1	0	19.19	19.03	19.07	20.3	0
1.4	64QAM	1	3	19.21	19.16	19.11		
1.4	64QAM	1	5	19.18	19.15	19.05		



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1.4	64QAM	3	0	19.10	19.10	19.03		
1.4	64QAM	3	1	19.20	19.14	19.08		
1.4	64QAM	3	3	19.13	19.17	19.04		
1.4	64QAM	6	0	18.98	18.94	18.92	20.3	0
1.4	256QAM	1	0	17.67	17.66	17.67	18.8	1.5
1.4	256QAM	1	3	17.94	17.95	17.72		
1.4	256QAM	1	5	17.63	17.84	17.59		
1.4	256QAM	3	0	17.66	17.58	17.71		
1.4	256QAM	3	1	17.84	17.98	17.88		
1.4	256QAM	3	3	17.76	17.89	17.61		
1.4	256QAM	6	0	17.57	17.53	17.65	18.8	1.5



<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230			21.3	0
Frequency (MHz)				782				
10	QPSK	1	0		20.20		21.3	0
10	QPSK	1	25		19.99			
10	QPSK	1	49		19.91			
10	QPSK	25	0		20.12		21.3	0
10	QPSK	25	12		20.18			
10	QPSK	25	25		20.16			
10	QPSK	50	0		20.07		21.3	0
10	16QAM	1	0		20.09			
10	16QAM	1	25		20.11			
10	16QAM	1	49		20.16		21.3	0
10	16QAM	25	0		19.68			
10	16QAM	25	12		19.70			
10	16QAM	25	25		19.64		21.3	0
10	16QAM	50	0		19.57			
10	64QAM	1	0		20.15		21.3	0
10	64QAM	1	25		20.15			
10	64QAM	1	49		20.16			
10	64QAM	25	0		19.37		20.3	1
10	64QAM	25	12		19.45			
10	64QAM	25	25		19.35			
10	64QAM	50	0		19.37		18.8	1.5
10	256QAM	1	0		17.75			
10	256QAM	1	25		17.91			
10	256QAM	1	49		17.63		18.8	1.5
10	256QAM	25	0		17.69			
10	256QAM	25	12		17.80			
10	256QAM	25	25		17.75		17.66	
10	256QAM	50	0		17.66			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	20.00	19.95	20.01	21.3	0
5	QPSK	1	12	19.91	19.92	19.81		
5	QPSK	1	24	19.91	19.92	19.84		
5	QPSK	12	0	19.97	19.92	19.87	21.3	0
5	QPSK	12	7	19.99	19.96	19.92		
5	QPSK	12	13	19.97	19.96	19.93		
5	QPSK	25	0	19.98	19.91	19.89	21.3	0
5	16QAM	1	0	20.05	20.16	20.13		
5	16QAM	1	12	20.03	20.12	20.11		
5	16QAM	1	24	20.02	20.11	20.15	21.3	0
5	16QAM	12	0	20.03	19.96	19.86		
5	16QAM	12	7	20.05	19.97	19.89		
5	16QAM	12	13	20.04	19.97	19.93	21.3	0
5	16QAM	25	0	19.94	19.91	19.90		
5	64QAM	1	0	20.14	20.07	20.02		
5	64QAM	1	12	20.10	20.09	20.01	21.3	0
5	64QAM	1	24	20.13	20.08	20.02		
5	64QAM	12	0	20.10	20.02	20.03		
5	64QAM	12	7	20.12	20.10	20.04	20.3	1
5	64QAM	12	13	20.11	20.10	20.07		
5	64QAM	25	0	20.14	20.09	20.04		



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5	256QAM	1	0	17.62	17.65	17.55	18.8	1.5
5	256QAM	1	12	17.55	17.56	17.64		
5	256QAM	1	24	17.55	17.52	17.60		
5	256QAM	12	0	17.61	17.61	17.42	18.8	1.5
5	256QAM	12	7	17.55	17.48	17.60		
5	256QAM	12	13	17.44	17.53	17.55		
5	256QAM	25	0	17.53	17.58	17.46		



<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				709	710	711		
10	QPSK	1	0	19.27	19.31	19.15	20.3	0
10	QPSK	1	25	19.07	19.09	19.11		
10	QPSK	1	49	19.10	19.08	19.12		
10	QPSK	25	0	18.95	19.04	18.99	20.3	0
10	QPSK	25	12	19.15	19.16	19.05		
10	QPSK	25	25	19.04	18.97	18.92		
10	QPSK	50	0	18.97	19.00	18.99	20.3	0
10	16QAM	1	0	18.83	18.64	18.68		
10	16QAM	1	25	18.89	18.75	18.66		
10	16QAM	1	49	18.90	18.68	18.70	20.3	0
10	16QAM	25	0	18.56	18.72	18.63		
10	16QAM	25	12	18.69	18.69	18.68		
10	16QAM	25	25	18.57	18.74	18.67	20.3	0
10	16QAM	50	0	18.60	18.64	18.67		
10	64QAM	1	0	19.28	19.30	19.27	20.3	0
10	64QAM	1	25	19.20	19.26	19.23		
10	64QAM	1	49	19.21	19.28	19.23		
10	64QAM	25	0	18.73	18.69	18.69	20.3	0
10	64QAM	25	12	18.83	18.71	18.67		
10	64QAM	25	25	18.82	18.80	18.75		
10	64QAM	50	0	18.67	18.67	18.75	18.8	1.5
10	256QAM	1	0	17.69	17.77	17.82		
10	256QAM	1	25	17.74	17.62	17.76		
10	256QAM	1	49	17.74	17.77	17.80	18.8	1.5
10	256QAM	25	0	17.63	17.81	17.72		
10	256QAM	25	12	17.71	17.48	17.86		
10	256QAM	25	25	17.73	17.70	17.85	Tune-up limit (dBm)	MPR (dB)
10	256QAM	50	0	17.63	17.79	17.77		
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	19.27	19.15	19.16	20.3	0
5	QPSK	1	12	19.27	19.30	19.23		
5	QPSK	1	24	19.27	19.29	19.25		
5	QPSK	12	0	19.12	19.11	19.06	20.3	0
5	QPSK	12	7	19.18	19.17	19.08		
5	QPSK	12	13	19.17	19.17	19.11		
5	QPSK	25	0	19.16	19.14	19.07	20.3	0
5	16QAM	1	0	19.24	19.22	19.24		
5	16QAM	1	12	19.23	19.13	19.28		
5	16QAM	1	24	19.28	19.14	19.28	20.3	0
5	16QAM	12	0	19.16	19.10	19.11		
5	16QAM	12	7	19.18	19.15	19.11		
5	16QAM	12	13	19.18	19.20	19.12	20.3	0
5	16QAM	25	0	19.17	19.16	19.08		
5	64QAM	1	0	19.22	19.13	19.12		
5	64QAM	1	12	19.15	19.25	19.19	20.3	0
5	64QAM	1	24	19.23	19.30	19.14		
5	64QAM	12	0	19.20	19.17	19.15		
5	64QAM	12	7	19.23	19.23	19.16	20.3	0
5	64QAM	12	13	19.25	19.24	19.17		
5	64QAM	25	0	19.19	19.17	19.10		



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5	256QAM	1	0	17.71	17.76	17.83	18.8	1.5
5	256QAM	1	12	17.72	17.58	17.69		
5	256QAM	1	24	17.73	17.74	17.71		
5	256QAM	12	0	17.66	17.83	17.74	18.8	1.5
5	256QAM	12	7	17.71	17.44	17.79		
5	256QAM	12	13	17.78	17.76	17.78		
5	256QAM	25	0	17.64	17.76	17.76		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	12.91	13.03	13.02	13.5	0
20	QPSK	1	49	12.80	12.97	12.96		
20	QPSK	1	99	12.89	12.70	12.88		
20	QPSK	50	0	12.94	12.94	12.90	13.5	0
20	QPSK	50	24	12.96	12.97	12.95		
20	QPSK	50	50	12.90	12.94	12.94		
20	QPSK	100	0	13.00	13.01	12.86	13.5	0
20	16QAM	1	0	12.86	12.67	12.96		
20	16QAM	1	49	12.89	12.98	12.97		
20	16QAM	1	99	12.89	12.89	12.91	13.5	0
20	16QAM	50	0	12.86	13.00	12.98		
20	16QAM	50	24	12.91	12.81	12.92		
20	16QAM	50	50	12.97	12.91	13.00	13.5	0
20	16QAM	100	0	12.86	12.94	12.85		
20	64QAM	1	0	12.68	13.01	12.90	13.5	0
20	64QAM	1	49	12.80	12.99	12.90		
20	64QAM	1	99	12.71	12.80	12.85		
20	64QAM	50	0	12.60	12.74	12.67	13.5	0
20	64QAM	50	24	12.67	12.94	12.66		
20	64QAM	50	50	12.56	12.79	12.72		
20	64QAM	100	0	12.55	12.71	12.61	13.5	0
20	256QAM	1	0	12.78	12.92	12.90		
20	256QAM	1	49	12.80	12.90	12.87		
20	256QAM	1	99	12.91	12.88	12.83	13.5	0
20	256QAM	50	0	12.76	12.87	12.91		
20	256QAM	50	24	12.73	12.91	12.91		
20	256QAM	50	50	12.75	12.87	12.91	13.5	0
20	256QAM	100	0	12.86	12.85	12.85		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	12.37	12.61	12.62	13.5	0
15	QPSK	1	37	12.46	12.60	12.58		
15	QPSK	1	74	12.32	12.63	12.60		
15	QPSK	36	0	12.48	12.65	12.63	13.5	0
15	QPSK	36	20	12.61	12.80	12.76		
15	QPSK	36	39	12.55	12.69	12.71		
15	QPSK	75	0	12.57	12.72	12.59	13.5	0
15	16QAM	1	0	12.61	12.96	12.91		
15	16QAM	1	37	12.85	12.93	12.89		
15	16QAM	1	74	12.69	12.98	12.91	13.5	0
15	16QAM	36	0	12.46	12.58	12.54		
15	16QAM	36	20	12.61	12.75	12.71		
15	16QAM	36	39	12.57	12.68	12.64	13.5	0
15	16QAM	75	0	12.55	12.71	12.66		
15	64QAM	1	0	12.45	12.85	12.82		
15	64QAM	1	37	12.75	12.87	12.79	13.5	0
15	64QAM	1	74	12.62	12.82	12.77		
15	64QAM	36	0	12.49	12.62	12.54		
15	64QAM	36	20	12.63	12.77	12.70	13.5	0
15	64QAM	36	39	12.60	12.74	12.73		
15	64QAM	75	0	12.57	12.70	12.66		



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15	256QAM	1	0	12.37	12.56	12.50	13.5	0
15	256QAM	1	37	12.29	12.61	12.60		
15	256QAM	1	74	12.33	12.46	12.54		
15	256QAM	36	0	12.19	12.58	12.42	13.5	0
15	256QAM	36	20	12.33	12.45	12.50		
15	256QAM	36	39	12.22	12.47	12.62		
15	256QAM	75	0	12.30	12.47	12.60	Tune-up limit (dBm)	MPR (dB)
Channel				26090	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	12.06	12.20	12.49	13.5	0
10	QPSK	1	25	12.25	12.41	12.51		
10	QPSK	1	49	11.99	12.16	12.51		
10	QPSK	25	0	12.20	12.40	12.45	13.5	0
10	QPSK	25	12	12.40	12.54	12.52		
10	QPSK	25	25	12.31	12.49	12.57		
10	QPSK	50	0	12.34	12.51	12.49	13.5	0
10	16QAM	1	0	12.37	12.51	12.76		
10	16QAM	1	25	12.58	12.72	12.78		
10	16QAM	1	49	12.34	12.51	12.77	13.5	0
10	16QAM	25	0	12.19	12.32	12.38		
10	16QAM	25	12	12.36	12.49	12.48		
10	16QAM	25	25	12.27	12.45	12.53	13.5	0
10	16QAM	50	0	12.29	12.41	12.41		
10	64QAM	1	0	12.23	12.35	12.57		
10	64QAM	1	25	12.50	12.68	12.69	13.5	0
10	64QAM	1	49	12.22	12.37	12.62		
10	64QAM	25	0	12.20	12.32	12.38		
10	64QAM	25	12	12.37	12.54	12.54	13.5	0
10	64QAM	25	25	12.30	12.45	12.54		
10	64QAM	50	0	12.30	12.48	12.48		
10	256QAM	1	0	11.88	12.11	12.48	13.5	0
10	256QAM	1	25	11.95	12.12	12.38		
10	256QAM	1	49	12.04	12.07	12.44		
10	256QAM	25	0	12.00	12.09	12.37	13.5	0
10	256QAM	25	12	11.86	12.07	12.31		
10	256QAM	25	25	11.94	12.01	12.35		
10	256QAM	50	0	11.98	12.11	12.39	Tune-up limit (dBm)	MPR (dB)
Channel				26065	26340	26665		
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	12.22	12.29	12.46	13.5	0
5	QPSK	1	12	12.31	12.47	12.52		
5	QPSK	1	24	12.27	12.42	12.53		
5	QPSK	12	0	12.35	12.46	12.49	13.5	0
5	QPSK	12	7	12.37	12.56	12.57		
5	QPSK	12	13	12.39	12.52	12.58		
5	QPSK	25	0	12.37	12.56	12.51	13.5	0
5	16QAM	1	0	12.57	12.67	12.71		
5	16QAM	1	12	12.57	12.72	12.77		
5	16QAM	1	24	12.63	12.71	12.74	13.5	0
5	16QAM	12	0	12.35	12.44	12.45		
5	16QAM	12	7	12.39	12.56	12.50		
5	16QAM	12	13	12.41	12.54	12.54	13.5	0
5	16QAM	25	0	12.35	12.48	12.50		
5	64QAM	1	0	12.51	12.56	12.63		
5	64QAM	1	12	12.51	12.64	12.65	13.5	0
5	64QAM	1	24	12.54	12.66	12.64		



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5	64QAM	12	0	12.36	12.46	12.46	13.5	0
5	64QAM	12	7	12.42	12.56	12.53		
5	64QAM	12	13	12.40	12.56	12.56		
5	64QAM	25	0	12.37	12.49	12.50		
5	256QAM	1	0	12.18	12.26	12.39	13.5	0
5	256QAM	1	12	12.21	12.16	12.38		
5	256QAM	1	24	12.09	12.09	12.39		
5	256QAM	12	0	12.16	12.20	12.37	13.5	0
5	256QAM	12	7	12.07	12.20	12.44		
5	256QAM	12	13	12.13	12.24	12.39		
5	256QAM	25	0	12.12	12.13	12.27		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	12.27	12.35	12.46	13.5	0
3	QPSK	1	8	12.35	12.53	12.58		
3	QPSK	1	14	12.27	12.47	12.52		
3	QPSK	8	0	12.39	12.49	12.62	13.5	0
3	QPSK	8	4	12.43	12.58	12.62		
3	QPSK	8	7	12.35	12.55	12.59		
3	QPSK	15	0	12.38	12.53	12.58		
3	16QAM	1	0	12.54	12.62	12.69	13.5	0
3	16QAM	1	8	12.67	12.79	12.75		
3	16QAM	1	14	12.60	12.73	12.76		
3	16QAM	8	0	12.37	12.48	12.56	13.5	0
3	16QAM	8	4	12.42	12.56	12.58		
3	16QAM	8	7	12.38	12.56	12.56		
3	16QAM	15	0	12.37	12.52	12.50		
3	64QAM	1	0	12.44	12.56	12.62	13.5	0
3	64QAM	1	8	12.58	12.70	12.71		
3	64QAM	1	14	12.50	12.68	12.71		
3	64QAM	8	0	12.36	12.45	12.52	13.5	0
3	64QAM	8	4	12.39	12.54	12.56		
3	64QAM	8	7	12.35	12.52	12.56		
3	64QAM	15	0	12.34	12.47	12.54		
3	256QAM	1	0	12.19	12.28	12.34	13.5	0
3	256QAM	1	8	12.09	12.15	12.44		
3	256QAM	1	14	12.16	12.33	12.37		
3	256QAM	8	0	12.26	12.29	12.26	13.5	0
3	256QAM	8	4	12.22	12.34	12.27		
3	256QAM	8	7	12.20	12.28	12.33		
3	256QAM	15	0	12.14	12.19	12.36		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	12.18	12.31	12.38	13.5	0
1.4	QPSK	1	3	12.28	12.42	12.46		
1.4	QPSK	1	5	12.23	12.33	12.43		
1.4	QPSK	3	0	12.22	12.35	12.43		
1.4	QPSK	3	1	12.29	12.38	12.47		
1.4	QPSK	3	3	12.26	12.35	12.45		
1.4	QPSK	6	0	12.30	12.47	12.48	13.5	0
1.4	16QAM	1	0	12.43	12.54	12.62	13.5	0
1.4	16QAM	1	3	12.49	12.68	12.72		
1.4	16QAM	1	5	12.45	12.58	12.64		
1.4	16QAM	3	0	12.31	12.41	12.44		
1.4	16QAM	3	1	12.35	12.46	12.48		
1.4	16QAM	3	3	12.27	12.41	12.41		



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1.4	16QAM	6	0	12.32	12.46	12.50	13.5	0
1.4	64QAM	1	0	12.46	12.45	12.54	13.5	0
1.4	64QAM	1	3	12.50	12.62	12.63		
1.4	64QAM	1	5	12.45	12.58	12.56		
1.4	64QAM	3	0	12.36	12.50	12.54		
1.4	64QAM	3	1	12.45	12.52	12.59		
1.4	64QAM	3	3	12.41	12.52	12.54		
1.4	64QAM	6	0	12.24	12.39	12.42	13.5	0
1.4	256QAM	1	0	12.12	12.22	12.24	13.5	0
1.4	256QAM	1	3	12.00	12.13	12.28		
1.4	256QAM	1	5	11.98	12.20	12.31		
1.4	256QAM	3	0	12.09	12.30	12.20		
1.4	256QAM	3	1	12.04	12.23	12.35		
1.4	256QAM	3	3	12.00	12.17	12.37		
1.4	256QAM	6	0	12.16	12.23	12.27	13.5	0



<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965	20.8	0
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	19.68	19.76	19.67		
15	QPSK	1	37	19.52	19.57	19.53	20.8	0
15	QPSK	1	74	19.56	19.51	19.41		
15	QPSK	36	0	19.56	19.56	19.57		
15	QPSK	36	20	19.59	19.68	19.55	20.8	0
15	QPSK	36	39	19.53	19.63	19.54		
15	QPSK	75	0	19.50	19.56	19.45		
15	16QAM	1	0	19.60	19.32	19.62	20.8	0
15	16QAM	1	37	19.56	19.73	19.65		
15	16QAM	1	74	19.53	19.67	19.59		
15	16QAM	36	0	19.36	19.34	19.30	20.8	0
15	16QAM	36	20	19.55	19.51	19.50		
15	16QAM	36	39	19.52	19.48	19.35		
15	16QAM	75	0	19.46	19.27	19.28	20.8	0
15	64QAM	1	0	19.46	19.47	19.45		
15	64QAM	1	37	19.48	19.54	19.53		
15	64QAM	1	74	19.49	19.58	19.53	20.8	0
15	64QAM	36	0	19.39	19.39	19.40		
15	64QAM	36	20	19.44	19.37	19.47		
15	64QAM	36	39	19.42	19.37	19.37	20.8	0
15	64QAM	75	0	19.37	19.27	19.40		
15	256QAM	1	0	17.65	17.73	17.67	18.8	2
15	256QAM	1	37	17.67	17.68	17.68		
15	256QAM	1	74	17.57	17.65	17.61		
15	256QAM	36	0	17.66	17.71	17.65	18.8	2
15	256QAM	36	20	17.75	17.66	17.68		
15	256QAM	36	39	17.65	17.72	17.67		
15	256QAM	75	0	17.66	17.73	17.70	Tune-up limit (dBm)	MPR (dB)
Channel				26740	26865	26990		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	19.42	19.37	19.40	20.8	0
10	QPSK	1	25	19.45	19.29	19.31		
10	QPSK	1	49	19.47	19.32	19.28		
10	QPSK	25	0	19.35	19.28	19.29	20.8	0
10	QPSK	25	12	19.55	19.36	19.39		
10	QPSK	25	25	19.48	19.37	19.34		
10	QPSK	50	0	19.48	19.30	19.28	20.8	0
10	16QAM	1	0	19.74	19.66	19.65		
10	16QAM	1	25	19.71	19.60	19.61		
10	16QAM	1	49	19.75	19.59	19.58	20.8	0
10	16QAM	25	0	19.35	19.30	19.30		
10	16QAM	25	12	19.56	19.42	19.42		
10	16QAM	25	25	19.47	19.40	19.37	20.8	0
10	16QAM	50	0	19.47	19.30	19.29		
10	64QAM	1	0	19.72	19.74	19.75		
10	64QAM	1	25	19.74	19.68	19.68	20.8	0
10	64QAM	1	49	19.73	19.70	19.66		
10	64QAM	25	0	19.39	19.31	19.30		
10	64QAM	25	12	19.56	19.41	19.41	20.8	0
10	64QAM	25	25	19.48	19.40	19.37		
10	64QAM	50	0	19.47	19.28	19.30		



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10	256QAM	1	0	17.62	17.70	17.63	18.8	2.0
10	256QAM	1	25	17.73	17.70	17.65		
10	256QAM	1	49	17.67	17.72	17.62		
10	256QAM	25	0	17.59	17.76	17.69	18.8	2.0
10	256QAM	25	12	17.70	17.73	17.66		
10	256QAM	25	25	17.65	17.65	17.68		
10	256QAM	50	0	17.71	17.77	17.67	Tune-up limit (dBm)	MPR (dB)
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5	20.8	0
5	QPSK	1	0	19.39	19.32	19.29		
5	QPSK	1	12	19.47	19.34	19.37		
5	QPSK	1	24	19.40	19.39	19.31	20.8	0
5	QPSK	12	0	19.52	19.35	19.35		
5	QPSK	12	7	19.59	19.48	19.38		
5	QPSK	12	13	19.56	19.42	19.41	20.8	0
5	QPSK	25	0	19.51	19.33	19.36		
5	16QAM	1	0	19.72	19.57	19.67		
5	16QAM	1	12	19.71	19.61	19.74	20.8	0
5	16QAM	1	24	19.72	19.73	19.68		
5	16QAM	12	0	19.57	19.41	19.40		
5	16QAM	12	7	19.58	19.51	19.44	20.8	0
5	16QAM	12	13	19.56	19.44	19.45		
5	16QAM	25	0	19.56	19.38	19.35		
5	64QAM	1	0	19.67	19.55	19.55	20.8	0
5	64QAM	1	12	19.68	19.56	19.60		
5	64QAM	1	24	19.67	19.61	19.59		
5	64QAM	12	0	19.51	19.36	19.37	20.8	0
5	64QAM	12	7	19.57	19.48	19.40		
5	64QAM	12	13	19.55	19.47	19.43		
5	64QAM	25	0	19.58	19.41	19.37	18.8	2.0
5	256QAM	1	0	17.59	17.72	17.68		
5	256QAM	1	12	17.68	17.74	17.64		
5	256QAM	1	24	17.59	17.73	17.66	18.8	2.0
5	256QAM	12	0	17.65	17.68	17.66		
5	256QAM	12	7	17.76	17.74	17.69		
5	256QAM	12	13	17.57	17.68	17.68	Tune-up limit (dBm)	MPR (dB)
5	256QAM	25	0	17.73	17.72	17.71		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	19.49	19.32	19.39	20.8	0
3	QPSK	1	8	19.53	19.42	19.41		
3	QPSK	1	14	19.50	19.36	19.33		
3	QPSK	8	0	19.51	19.38	19.40	20.8	0
3	QPSK	8	4	19.58	19.48	19.43		
3	QPSK	8	7	19.53	19.47	19.43		
3	QPSK	15	0	19.54	19.40	19.43	20.8	0
3	16QAM	1	0	19.56	19.62	19.67		
3	16QAM	1	8	19.73	19.71	19.70		
3	16QAM	1	14	19.72	19.66	19.67	20.8	0
3	16QAM	8	0	19.62	19.45	19.50		
3	16QAM	8	4	19.68	19.57	19.49		
3	16QAM	8	7	19.63	19.53	19.48	20.8	0
3	16QAM	15	0	19.59	19.42	19.45		
3	64QAM	1	0	19.75	19.57	19.61		
3	64QAM	1	8	19.70	19.69	19.66	Tune-up limit (dBm)	MPR (dB)
3	64QAM	1	14	19.72	19.63	19.59		



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3	64QAM	8	0	19.64	19.47	19.50	20.8	0
3	64QAM	8	4	19.66	19.57	19.50		
3	64QAM	8	7	19.64	19.54	19.47		
3	64QAM	15	0	19.60	19.44	19.43		
3	256QAM	1	0	17.59	17.75	17.58	18.8	2.0
3	256QAM	1	8	17.68	17.71	17.70		
3	256QAM	1	14	17.57	17.69	17.71		
3	256QAM	8	0	17.57	17.66	17.68	18.8	2.0
3	256QAM	8	4	17.73	17.66	17.75		
3	256QAM	8	7	17.58	17.63	17.61		
3	256QAM	15	0	17.65	17.74	17.71		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	19.36	19.21	19.23	20.8	0
1.4	QPSK	1	3	19.49	19.36	19.28		
1.4	QPSK	1	5	19.39	19.27	19.22		
1.4	QPSK	3	0	19.44	19.26	19.23		
1.4	QPSK	3	1	19.49	19.29	19.28		
1.4	QPSK	3	3	19.46	19.29	19.26		
1.4	QPSK	6	0	19.52	19.32	19.34	20.8	0
1.4	16QAM	1	0	19.72	19.54	19.55	20.8	0
1.4	16QAM	1	3	19.73	19.68	19.63		
1.4	16QAM	1	5	19.70	19.60	19.53		
1.4	16QAM	3	0	19.58	19.32	19.36		
1.4	16QAM	3	1	19.63	19.37	19.43		
1.4	16QAM	3	3	19.56	19.38	19.32		
1.4	16QAM	6	0	19.60	19.39	19.41	20.8	0
1.4	64QAM	1	0	19.71	19.52	19.49	20.8	0
1.4	64QAM	1	3	19.75	19.59	19.57		
1.4	64QAM	1	5	19.72	19.53	19.47		
1.4	64QAM	3	0	19.68	19.47	19.49		
1.4	64QAM	3	1	19.74	19.53	19.53		
1.4	64QAM	3	3	19.66	19.55	19.47		
1.4	64QAM	6	0	19.54	19.36	19.36	20.8	0
1.4	256QAM	1	0	17.67	17.75	17.60	18.8	2.0
1.4	256QAM	1	3	17.68	17.75	17.63		
1.4	256QAM	1	5	17.60	17.69	17.66		
1.4	256QAM	3	0	17.62	17.74	17.68		
1.4	256QAM	3	1	17.68	17.68	17.70		
1.4	256QAM	3	3	17.56	17.71	17.66		
1.4	256QAM	6	0	17.68	17.79	17.68	18.8	2.0



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710			13.8	0
Frequency (MHz)				2310				
10	QPSK	1	0		13.22		13.8	0
10	QPSK	1	25		12.96			
10	QPSK	1	49		13.05			
10	QPSK	25	0		13.11		13.8	0
10	QPSK	25	12		13.17			
10	QPSK	25	25		13.01			
10	QPSK	50	0		13.20		13.8	0
10	16QAM	1	0		13.11			
10	16QAM	1	25		13.02			
10	16QAM	1	49		13.10		13.8	0
10	16QAM	25	0		13.10			
10	16QAM	25	12		13.05			
10	16QAM	25	25		12.95		13.8	0
10	16QAM	50	0		13.09			
10	64QAM	1	0		12.83		13.8	0
10	64QAM	1	25		12.91			
10	64QAM	1	49		12.79			
10	64QAM	25	0		12.67		13.8	0
10	64QAM	25	12		12.77			
10	64QAM	25	25		12.64			
10	64QAM	50	0		12.66		13.8	0
10	256QAM	1	0		12.83			
10	256QAM	1	25		12.78			
10	256QAM	1	49		12.80		13.8	0
10	256QAM	25	0		12.63			
10	256QAM	25	12		12.82			
10	256QAM	25	25		12.73		13.8	0
10	256QAM	50	0		12.77			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	13.8	0
5	QPSK	1	0	12.84	12.79	12.87		
5	QPSK	1	12	12.90	12.94	12.89		
5	QPSK	1	24	12.84	12.78	12.81	13.8	0
5	QPSK	12	0	12.98	12.94	12.99		
5	QPSK	12	7	13.03	12.99	13.03		
5	QPSK	12	13	12.98	12.91	12.93	13.8	0
5	QPSK	25	0	12.98	12.93	12.97		
5	16QAM	1	0	13.09	12.96	13.01		
5	16QAM	1	12	13.10	13.09	13.06	13.8	0
5	16QAM	1	24	13.07	12.98	13.02		
5	16QAM	12	0	12.87	12.81	12.87		
5	16QAM	12	7	12.93	12.88	12.89	13.8	0
5	16QAM	12	13	12.86	12.83	12.84		
5	16QAM	25	0	12.84	12.80	12.84		
5	64QAM	1	0	12.94	12.90	12.90	13.8	0
5	64QAM	1	12	13.01	13.02	12.99		
5	64QAM	1	24	12.95	12.89	12.89		
5	64QAM	12	0	12.86	12.79	12.83	13.8	0
5	64QAM	12	7	12.89	12.85	12.88		
5	64QAM	12	13	12.83	12.81	12.81		
5	64QAM	25	0	12.87	12.79	12.81		



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15	256QAM	1	0	12.76	12.67	12.77	13.8	0
5	256QAM	1	12	12.65	12.62	12.67		
5	256QAM	1	24	12.72	12.73	12.67		
5	256QAM	12	0	12.72	12.79	12.75	13.8	0
5	256QAM	12	7	12.78	12.62	12.84		
5	256QAM	12	13	12.81	12.67	12.74		
5	256QAM	25	0	12.76	12.74	12.73		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	13	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	11.98	12.04	12.02		
20	QPSK	1	49	12.01	12.00	12.02	13	0
20	QPSK	1	99	11.71	11.87	11.68		
20	QPSK	50	0	11.75	12.01	11.91		
20	QPSK	50	24	11.97	12.02	11.99	13	0
20	QPSK	50	50	11.75	12.01	11.81		
20	QPSK	100	0	11.85	11.93	11.81		
20	16QAM	1	0	12.00	12.01	12.03	13	0
20	16QAM	1	49	12.02	12.01	12.02		
20	16QAM	1	99	11.99	12.01	12.00		
20	16QAM	50	0	11.94	11.94	11.82	13	0
20	16QAM	50	24	11.80	11.97	11.90		
20	16QAM	50	50	11.69	11.80	11.98		
20	16QAM	100	0	11.72	11.70	11.99	13	0
20	64QAM	1	0	11.57	11.79	11.98		
20	64QAM	1	49	11.88	11.98	11.90		
20	64QAM	1	99	11.61	11.82	11.80	13	0
20	64QAM	50	0	11.67	11.90	11.77		
20	64QAM	50	24	11.77	11.91	11.88		
20	64QAM	50	50	11.67	11.83	11.78	13	0
20	64QAM	100	0	11.71	11.84	11.79		
20	256QAM	1	0	11.85	11.88	11.98		
20	256QAM	1	49	11.79	11.86	11.93	13	0
20	256QAM	1	99	11.80	11.91	11.94		
20	256QAM	50	0	11.86	11.93	11.93		
20	256QAM	50	24	11.94	11.97	11.97	13	0
20	256QAM	50	50	11.90	11.85	11.91		
20	256QAM	100	0	11.95	11.89	11.92		
Channel				132047	132322	132597	13	0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	11.79	11.80	11.86		
15	QPSK	1	37	11.86	11.85	11.80	13	0
15	QPSK	1	74	11.73	11.99	11.76		
15	QPSK	36	0	11.94	11.85	11.90		
15	QPSK	36	20	11.85	11.94	11.89	13	0
15	QPSK	36	39	11.96	11.91	11.84		
15	QPSK	75	0	11.98	11.89	11.83		
15	16QAM	1	0	11.88	11.96	11.89	13	0
15	16QAM	1	37	11.86	11.88	11.86		
15	16QAM	1	74	11.90	12.03	12.01		
15	16QAM	36	0	11.96	11.99	11.94	13	0
15	16QAM	36	20	12.03	11.93	11.88		
15	16QAM	36	39	11.96	11.90	11.82		
15	16QAM	75	0	12.00	11.89	11.85	13	0
15	64QAM	1	0	11.92	11.90	12.02		
15	64QAM	1	37	11.87	12.02	11.94		
15	64QAM	1	74	11.87	11.87	11.91	13	0
15	64QAM	36	0	11.92	11.86	11.89		
15	64QAM	36	20	11.97	11.92	11.95		
15	64QAM	36	39	11.89	11.83	11.85	13	0
15	64QAM	75	0	11.92	11.86	11.86		



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15	256QAM	1	0	11.75	11.73	11.68	13	0
15	256QAM	1	37	11.60	11.66	11.77		
15	256QAM	1	74	11.69	11.76	11.66		
15	256QAM	36	0	11.74	11.65	11.75	13	0
15	256QAM	36	20	11.59	11.60	11.67		
15	256QAM	36	39	11.60	11.70	11.68		
15	256QAM	75	0	11.62	11.65	11.70	Tune-up limit (dBm)	MPR (dB)
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	11.51	11.68	11.33	13	0
10	QPSK	1	25	11.65	11.75	11.51		
10	QPSK	1	49	11.42	11.69	11.33		
10	QPSK	25	0	11.67	11.76	11.50	13	0
10	QPSK	25	12	11.77	11.80	11.55		
10	QPSK	25	25	11.73	11.85	11.50		
10	QPSK	50	0	11.76	11.96	11.49	13	0
10	16QAM	1	0	11.86	11.82	11.73		
10	16QAM	1	25	12.03	11.95	11.86		
10	16QAM	1	49	11.79	11.82	11.61	13	0
10	16QAM	25	0	11.65	11.94	11.52		
10	16QAM	25	12	11.80	12.02	11.55		
10	16QAM	25	25	11.75	12.02	11.55	13	0
10	16QAM	50	0	11.72	11.93	11.48		
10	64QAM	1	0	11.53	11.76	11.44		
10	64QAM	1	25	11.85	11.81	11.77	13	0
10	64QAM	1	49	11.60	11.90	11.52		
10	64QAM	25	0	11.60	11.85	11.50		
10	64QAM	25	12	11.76	11.92	11.64	13	0
10	64QAM	25	25	11.66	11.89	11.51		
10	64QAM	50	0	11.67	11.84	11.47		
10	256QAM	1	0	11.49	11.51	11.17	13	0
10	256QAM	1	25	11.37	11.53	11.25		
10	256QAM	1	49	11.47	11.51	11.18		
10	256QAM	25	0	11.45	11.59	11.15	13	0
10	256QAM	25	12	11.34	11.62	11.29		
10	256QAM	25	25	11.50	11.59	11.17		
10	256QAM	50	0	11.33	11.55	11.29	Tune-up limit (dBm)	MPR (dB)
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	11.64	11.80	11.43	13	0
5	QPSK	1	12	11.71	11.85	11.57		
5	QPSK	1	24	11.65	11.77	11.48		
5	QPSK	12	0	11.73	11.83	11.55	13	0
5	QPSK	12	7	11.84	11.87	11.68		
5	QPSK	12	13	11.80	11.79	11.60		
5	QPSK	25	0	11.77	12.03	11.57	13	0
5	16QAM	1	0	12.02	11.98	11.85		
5	16QAM	1	12	12.02	11.99	11.94		
5	16QAM	1	24	11.97	11.92	11.83	13	0
5	16QAM	12	0	11.75	11.89	11.58		
5	16QAM	12	7	11.83	11.79	11.68		
5	16QAM	12	13	11.78	11.81	11.64	13	0
5	16QAM	25	0	11.76	12.03	11.58		
5	64QAM	1	0	11.85	11.82	11.77		
5	64QAM	1	12	11.84	11.83	11.79	13	0
5	64QAM	1	24	11.77	11.79	11.70		



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5	64QAM	12	0	11.81	12.01	11.70	13	0
5	64QAM	12	7	11.80	11.86	11.64		
5	64QAM	12	13	11.74	11.97	11.64		
5	64QAM	25	0	11.73	11.94	11.57		
5	256QAM	1	0	11.64	11.63	11.34	13	0
5	256QAM	1	12	11.53	11.68	11.42		
5	256QAM	1	24	11.56	11.69	11.34		
5	256QAM	12	0	11.46	11.78	11.33	13	0
5	256QAM	12	7	11.50	11.62	11.38		
5	256QAM	12	13	11.50	11.78	11.37		
5	256QAM	25	0	11.47	11.74	11.37		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	11.63	11.90	11.46	13	0
3	QPSK	1	8	11.76	11.87	11.59		
3	QPSK	1	14	11.70	11.81	11.51		
3	QPSK	8	0	11.73	12.01	11.55	13	0
3	QPSK	8	4	11.80	12.01	11.59		
3	QPSK	8	7	11.76	11.78	11.58		
3	QPSK	15	0	11.73	12.02	11.58		
3	16QAM	1	0	11.95	11.87	11.82	13	0
3	16QAM	1	8	12.03	11.92	11.95		
3	16QAM	1	14	12.03	11.92	11.85		
3	16QAM	8	0	11.78	11.79	11.65	13	0
3	16QAM	8	4	11.85	11.83	11.69		
3	16QAM	8	7	11.79	11.77	11.70		
3	16QAM	15	0	11.75	12.00	11.61		
3	64QAM	1	0	11.90	11.82	11.79	13	0
3	64QAM	1	8	11.88	11.90	11.83		
3	64QAM	1	14	11.78	11.76	11.72		
3	64QAM	8	0	11.79	11.99	11.67	13	0
3	64QAM	8	4	11.77	12.03	11.69		
3	64QAM	8	7	11.70	11.97	11.59		
3	64QAM	15	0	11.72	11.94	11.61		
3	256QAM	1	0	11.59	11.90	11.44	13	0
3	256QAM	1	8	11.54	11.70	11.40		
3	256QAM	1	14	11.45	11.89	11.31		
3	256QAM	8	0	11.52	11.71	11.37	13	0
3	256QAM	8	4	11.43	11.82	11.37		
3	256QAM	8	7	11.59	11.86	11.45		
3	256QAM	15	0	11.59	11.77	11.33		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	11.54	11.81	11.42	13	0
1.4	QPSK	1	3	11.65	11.88	11.49		
1.4	QPSK	1	5	11.59	11.80	11.43		
1.4	QPSK	3	0	11.61	11.83	11.45		
1.4	QPSK	3	1	11.65	11.87	11.51		
1.4	QPSK	3	3	11.63	11.83	11.49		
1.4	QPSK	6	0	11.65	11.63	11.50	13	0
1.4	16QAM	1	0	11.87	11.82	11.75	13	0
1.4	16QAM	1	3	11.98	11.95	11.88		
1.4	16QAM	1	5	11.90	11.94	11.81		
1.4	16QAM	3	0	11.69	11.87	11.55		
1.4	16QAM	3	1	11.75	11.80	11.62		
1.4	16QAM	3	3	11.68	11.77	11.58		



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1.4	16QAM	6	0	11.74	11.80	11.59	13	0
1.4	64QAM	1	0	11.79	11.78	11.73	13	0
1.4	64QAM	1	3	11.84	11.83	11.74		
1.4	64QAM	1	5	11.71	12.00	11.63		
1.4	64QAM	3	0	11.76	12.03	11.67		
1.4	64QAM	3	1	11.80	12.02	11.71		
1.4	64QAM	3	3	11.69	11.99	11.63		
1.4	64QAM	6	0	11.64	11.88	11.56	13	0
1.4	256QAM	1	0	11.54	11.66	11.23	13	0
1.4	256QAM	1	3	11.45	11.66	11.41		
1.4	256QAM	1	5	11.51	11.66	11.26		
1.4	256QAM	3	0	11.34	11.74	11.35		
1.4	256QAM	3	1	11.48	11.76	11.36		
1.4	256QAM	3	3	11.40	11.79	11.24		
1.4	256QAM	6	0	11.46	11.63	11.24	13	0



<LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	683	688		
20	QPSK	1	0	20.51	20.58	20.49	20.8	0
20	QPSK	1	49	20.44	20.47	20.30		
20	QPSK	1	99	20.23	20.29	20.31		
20	QPSK	50	0	19.99	20.00	19.93	20.8	0
20	QPSK	50	24	20.13	20.34	20.05		
20	QPSK	50	50	20.01	20.01	19.93		
20	QPSK	100	0	19.86	19.95	19.82	20.8	0
20	16QAM	1	0	20.46	20.50	20.45		
20	16QAM	1	49	20.36	20.23	20.32		
20	16QAM	1	99	20.22	20.31	20.12	20.8	0
20	16QAM	50	0	20.07	20.11	19.97		
20	16QAM	50	24	20.08	20.02	20.05		
20	16QAM	50	50	20.07	20.04	20.07	20.8	0
20	16QAM	100	0	20.03	20.05	20.00		
20	64QAM	1	0	20.05	20.21	20.21	20.8	0
20	64QAM	1	49	20.19	20.18	20.15		
20	64QAM	1	99	20.25	20.05	20.13		
20	64QAM	50	0	20.12	20.14	20.02	20.8	0
20	64QAM	50	24	20.16	20.06	20.09		
20	64QAM	50	50	20.05	20.04	20.01		
20	64QAM	100	0	20.02	19.99	19.95	18.8	2
20	256QAM	1	0	18.46	18.64	18.49		
20	256QAM	1	49	18.44	18.50	18.50		
20	256QAM	1	99	18.40	18.61	18.47	18.8	2
20	256QAM	50	0	18.45	18.47	18.46		
20	256QAM	50	24	18.46	18.57	18.50		
20	256QAM	50	50	18.45	18.60	18.47	18.8	2
20	256QAM	100	0	18.48	18.47	18.52		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	20.33	20.54	20.40	20.8	0
15	QPSK	1	37	20.32	20.44	20.25		
15	QPSK	1	74	20.14	20.19	20.23		
15	QPSK	36	0	19.89	19.89	19.83	20.8	0
15	QPSK	36	20	19.94	20.23	19.97		
15	QPSK	36	39	19.83	19.97	19.87		
15	QPSK	75	0	19.74	19.90	19.77	20.8	0
15	16QAM	1	0	20.37	20.34	20.30		
15	16QAM	1	37	20.32	20.13	20.24		
15	16QAM	1	74	20.13	20.15	19.99	20.8	0
15	16QAM	36	0	19.97	19.95	19.87		
15	16QAM	36	20	20.00	19.90	19.97		
15	16QAM	36	39	19.87	19.94	19.97	20.8	0
15	16QAM	75	0	19.84	19.93	19.83		
15	64QAM	1	0	19.95	20.16	20.17		
15	64QAM	1	37	20.03	20.09	19.95	20.8	0
15	64QAM	1	74	20.19	20.04	20.06		
15	64QAM	36	0	20.06	19.95	19.87		
15	64QAM	36	20	20.07	19.98	20.01	20.8	0
15	64QAM	36	39	19.91	19.86	19.97		
15	64QAM	75	0	19.94	19.95	19.95		



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15	256QAM	1	0	18.44	18.59	18.45	18.8	2
15	256QAM	1	37	18.45	18.59	18.57		
15	256QAM	1	74	18.38	18.62	18.50		
15	256QAM	36	0	18.46	18.56	18.49	18.8	2
15	256QAM	36	20	18.41	18.63	18.55		
15	256QAM	36	39	18.44	18.63	18.44		
15	256QAM	75	0	18.50	18.51	18.43		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	20.33	20.44	20.38	20.8	0
10	QPSK	1	25	20.29	20.36	20.21		
10	QPSK	1	49	20.12	20.17	20.13		
10	QPSK	25	0	19.85	19.88	19.82	20.8	0
10	QPSK	25	12	19.88	20.16	19.88		
10	QPSK	25	25	19.75	19.93	19.77		
10	QPSK	50	0	19.71	19.81	19.67		
10	16QAM	1	0	20.37	20.30	20.23	20.8	0
10	16QAM	1	25	20.23	20.08	20.22		
10	16QAM	1	49	20.07	20.12	19.98		
10	16QAM	25	0	19.88	19.93	19.77	20.8	0
10	16QAM	25	12	19.94	19.85	19.87		
10	16QAM	25	25	19.79	19.85	19.87		
10	16QAM	50	0	19.78	19.86	19.78		
10	64QAM	1	0	19.85	20.16	20.14	20.8	0
10	64QAM	1	25	19.93	20.09	19.91		
10	64QAM	1	49	20.16	19.94	19.96		
10	64QAM	25	0	20.00	19.85	19.81	20.8	0
10	64QAM	25	12	20.07	19.90	19.97		
10	64QAM	25	25	19.90	19.81	19.95		
10	64QAM	50	0	19.94	19.85	19.88		
10	256QAM	1	0	18.46	18.62	18.47	18.8	2
10	256QAM	1	25	18.42	18.57	18.58		
10	256QAM	1	49	18.43	18.60	18.43		
10	256QAM	25	0	18.49	18.49	18.55	18.8	2
10	256QAM	25	12	18.47	18.62	18.52		
10	256QAM	25	25	18.47	18.56	18.47		
10	256QAM	50	0	18.50	18.46	18.51		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	20.28	20.51	20.32	20.8	0
5	QPSK	1	12	20.26	20.35	20.24		
5	QPSK	1	24	20.10	20.12	20.15		
5	QPSK	12	0	19.85	19.82	19.73	20.8	0
5	QPSK	12	7	19.92	20.16	19.91		
5	QPSK	12	13	19.83	19.91	19.85		
5	QPSK	25	0	19.71	19.89	19.70		
5	16QAM	1	0	20.31	20.28	20.21	20.8	0
5	16QAM	1	12	20.25	20.06	20.22		
5	16QAM	1	24	20.03	20.07	19.95		
5	16QAM	12	0	19.89	19.89	19.78	20.8	0
5	16QAM	12	7	19.96	19.80	19.96		
5	16QAM	12	13	19.84	19.94	19.88		
5	16QAM	25	0	19.79	19.93	19.75		
5	64QAM	1	0	19.90	20.15	20.16	20.8	0
5	64QAM	1	12	19.94	20.02	19.87		
5	64QAM	1	24	20.10	19.99	19.98		



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5	64QAM	12	0	20.03	19.95	19.81	20.8	0
5	64QAM	12	7	20.07	19.97	19.93		
5	64QAM	12	13	19.83	19.76	19.88		
5	64QAM	25	0	19.84	19.92	19.95		
5	256QAM	1	0	18.44	18.59	18.44	18.8	2
5	256QAM	1	12	18.41	18.54	18.55		
5	256QAM	1	24	18.41	18.55	18.52		
5	256QAM	12	0	18.43	18.51	18.51	18.8	2
5	256QAM	12	7	18.41	18.54	18.48		
5	256QAM	12	13	18.44	18.62	18.49		
5	256QAM	25	0	18.50	18.53	18.46		

UAT Reduced Power Mode for Hotspot On<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	15.62	15.79	15.74	16.5	0
20	QPSK	1	49	15.59	15.68	15.70		
20	QPSK	1	99	15.52	15.58	15.58		
20	QPSK	50	0	15.54	15.65	15.67	16.5	0
20	QPSK	50	24	15.75	15.77	15.69		
20	QPSK	50	50	15.69	15.76	15.61		
20	QPSK	100	0	15.67	15.65	15.78	16.5	0
20	16QAM	1	0	15.69	15.77	15.72		
20	16QAM	1	49	15.68	15.71	15.74		
20	16QAM	1	99	15.66	15.70	15.62	16.5	0
20	16QAM	50	0	15.58	15.69	15.72		
20	16QAM	50	24	15.75	15.77	15.68		
20	16QAM	50	50	15.69	15.78	15.70	16.5	0
20	16QAM	100	0	15.66	15.67	15.76		
20	64QAM	1	0	15.66	15.60	15.69		
20	64QAM	1	49	15.69	15.68	15.71	16.5	0
20	64QAM	1	99	15.72	15.63	15.64		
20	64QAM	50	0	15.59	15.71	15.73		
20	64QAM	50	24	15.77	15.71	15.67	16.5	0
20	64QAM	50	50	15.72	15.70	15.71		
20	64QAM	100	0	15.72	15.69	15.71		
20	256QAM	1	0	15.49	15.73	15.64	16.5	0
20	256QAM	1	49	15.59	15.74	15.61		
20	256QAM	1	99	15.51	15.69	15.66		
20	256QAM	50	0	15.48	15.71	15.71	16.5	0
20	256QAM	50	24	15.42	15.60	15.69		
20	256QAM	50	50	15.46	15.66	15.66		
20	256QAM	100	0	15.57	15.69	15.61	Tune-up limit (dBm)	MPR (dB)
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	15.10	15.32	15.35		
15	QPSK	1	37	15.21	15.33	15.33	16.5	0
15	QPSK	1	74	15.13	15.31	15.34		
15	QPSK	36	0	15.22	15.38	15.37		
15	QPSK	36	20	15.34	15.43	15.39	16.5	0
15	QPSK	36	39	15.38	15.46	15.46		
15	QPSK	75	0	15.31	15.36	15.35		
15	16QAM	1	0	15.46	15.65	15.70	16.5	0
15	16QAM	1	37	15.47	15.64	15.68		
15	16QAM	1	74	15.39	15.64	15.65		
15	16QAM	36	0	15.23	15.35	15.38	16.5	0
15	16QAM	36	20	15.32	15.45	15.43		
15	16QAM	36	39	15.34	15.49	15.46		
15	16QAM	75	0	15.32	15.39	15.37	16.5	0
15	64QAM	1	0	15.31	15.75	15.68		
15	64QAM	1	37	15.44	15.66	15.56		
15	64QAM	1	74	15.52	15.71	15.54	16.5	0
15	64QAM	36	0	15.21	15.37	15.37		
15	64QAM	36	20	15.32	15.41	15.47		
15	64QAM	36	39	15.33	15.48	15.45	Tune-up limit (dBm)	MPR (dB)



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15	64QAM	75	0	15.29	15.42	15.39		
15	256QAM	1	0	15.05	15.25	15.23	16.5	0
15	256QAM	1	37	15.02	15.25	15.25		
15	256QAM	1	74	15.08	15.28	15.26		
15	256QAM	36	0	15.00	15.22	15.16	16.5	0
15	256QAM	36	20	15.05	15.12	15.34		
15	256QAM	36	39	15.07	15.32	15.33		
15	256QAM	75	0	15.10	15.12	15.20		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	15.14	15.16	15.22	16.5	0
10	QPSK	1	25	15.11	15.21	15.15		
10	QPSK	1	49	15.09	15.01	15.14		
10	QPSK	25	0	15.07	15.19	15.18	16.5	0
10	QPSK	25	12	15.16	15.27	15.34		
10	QPSK	25	25	15.09	15.23	15.24		
10	QPSK	50	0	15.12	15.17	15.23		
10	16QAM	1	0	15.08	15.30	15.48	16.5	0
10	16QAM	1	25	15.43	15.57	15.55		
10	16QAM	1	49	15.18	15.36	15.53		
10	16QAM	25	0	15.08	15.19	15.15	16.5	0
10	16QAM	25	12	15.21	15.28	15.32		
10	16QAM	25	25	15.02	15.25	15.16		
10	16QAM	50	0	15.08	15.16	15.25		
10	64QAM	1	0	15.21	15.35	15.67	16.5	0
10	64QAM	1	25	15.35	15.65	15.54		
10	64QAM	1	49	15.23	15.51	15.61		
10	64QAM	25	0	15.06	15.18	15.18	16.5	0
10	64QAM	25	12	15.20	15.31	15.37		
10	64QAM	25	25	15.04	15.22	15.23		
10	64QAM	50	0	15.15	15.13	15.25		
10	256QAM	1	0	15.14	15.12	15.07	16.5	0
10	256QAM	1	25	15.12	14.94	14.96		
10	256QAM	1	49	15.03	15.03	15.13		
10	256QAM	25	0	15.07	15.06	14.98	16.5	0
10	256QAM	25	12	15.01	14.95	15.02		
10	256QAM	25	25	15.08	15.07	15.09		
10	256QAM	50	0	15.01	15.05	15.02		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.07	15.12	15.12	16.5	0
5	QPSK	1	12	15.13	15.24	15.22		
5	QPSK	1	24	15.03	15.13	15.13		
5	QPSK	12	0	15.20	15.35	15.25	16.5	0
5	QPSK	12	7	15.18	15.30	15.29		
5	QPSK	12	13	15.18	15.29	15.28		
5	QPSK	25	0	15.15	15.24	15.24		
5	16QAM	1	0	15.40	15.47	15.37	16.5	0
5	16QAM	1	12	15.46	15.60	15.60		
5	16QAM	1	24	15.32	15.45	15.43		
5	16QAM	12	0	15.20	15.37	15.29	16.5	0
5	16QAM	12	7	15.27	15.37	15.30		
5	16QAM	12	13	15.21	15.31	15.29		
5	16QAM	25	0	15.19	15.30	15.22		
5	64QAM	1	0	15.35	15.41	15.46	16.5	0
5	64QAM	1	12	15.35	15.43	15.45		



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5	64QAM	1	24	15.22	15.37	15.42		
5	64QAM	12	0	15.20	15.29	15.27	16.5	0
5	64QAM	12	7	15.23	15.28	15.30		
5	64QAM	12	13	15.18	15.29	15.29		
5	64QAM	25	0	15.17	15.28	15.26		
5	256QAM	1	0	14.88	15.10	15.10	16.5	0
5	256QAM	1	12	14.96	14.97	14.93		
5	256QAM	1	24	14.87	14.97	15.00		
5	256QAM	12	0	14.98	15.00	15.11	16.5	0
5	256QAM	12	7	15.06	15.06	15.02		
5	256QAM	12	13	14.97	15.05	15.08		
5	256QAM	25	0	14.97	14.92	14.94		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	15.13	15.23	15.24	16.5	0
3	QPSK	1	8	15.17	15.31	15.24		
3	QPSK	1	14	15.00	15.16	15.14		
3	QPSK	8	0	15.23	15.31	15.34	16.5	0
3	QPSK	8	4	15.24	15.29	15.29		
3	QPSK	8	7	15.16	15.33	15.26		
3	QPSK	15	0	15.18	15.30	15.30		
3	16QAM	1	0	15.43	15.53	15.56	16.5	0
3	16QAM	1	8	15.44	15.60	15.58		
3	16QAM	1	14	15.38	15.49	15.48		
3	16QAM	8	0	15.31	15.39	15.39	16.5	0
3	16QAM	8	4	15.28	15.36	15.38		
3	16QAM	8	7	15.19	15.37	15.34		
3	16QAM	15	0	15.20	15.33	15.31		
3	64QAM	1	0	15.44	15.49	15.46	16.5	0
3	64QAM	1	8	15.38	15.53	15.52		
3	64QAM	1	14	15.27	15.46	15.40		
3	64QAM	8	0	15.25	15.33	15.36	16.5	0
3	64QAM	8	4	15.24	15.35	15.35		
3	64QAM	8	7	15.18	15.33	15.31		
3	64QAM	15	0	15.17	15.30	15.28		
3	256QAM	1	0	15.08	15.13	15.18	16.5	0
3	256QAM	1	8	15.07	15.16	15.22		
3	256QAM	1	14	15.11	15.18	15.18		
3	256QAM	8	0	15.12	15.22	15.23		
3	256QAM	8	4	15.06	15.16	15.20	16.5	0
3	256QAM	8	7	15.11	15.20	15.14		
3	256QAM	15	0	15.13	15.13	15.24		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.32	15.50	15.52	16.5	0
1.4	QPSK	1	3	15.38	15.53	15.55		
1.4	QPSK	1	5	15.31	15.43	15.45		
1.4	QPSK	3	0	15.36	15.53	15.53		
1.4	QPSK	3	1	15.40	15.53	15.54		
1.4	QPSK	3	3	15.32	15.49	15.48		
1.4	QPSK	6	0	15.44	15.58	15.59	16.5	0
1.4	16QAM	1	0	15.65	15.72	15.75	16.5	0
1.4	16QAM	1	3	15.73	15.76	15.78		
1.4	16QAM	1	5	15.62	15.76	15.70		
1.4	16QAM	3	0	15.45	15.61	15.59		
1.4	16QAM	3	1	15.52	15.65	15.65		



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1.4	16QAM	3	3	15.39	15.55	15.58		
1.4	16QAM	6	0	15.51	15.68	15.69	16.5	0
1.4	64QAM	1	0	15.64	15.74	15.72	16.5	0
1.4	64QAM	1	3	15.67	15.78	15.70		
1.4	64QAM	1	5	15.59	15.73	15.72		
1.4	64QAM	3	0	15.60	15.74	15.73		
1.4	64QAM	3	1	15.61	15.71	15.71		
1.4	64QAM	3	3	15.53	15.73	15.72		
1.4	64QAM	6	0	15.46	15.62	15.61	16.5	0
1.4	256QAM	1	0	15.26	15.43	15.43	16.5	0
1.4	256QAM	1	3	15.25	15.43	15.42		
1.4	256QAM	1	5	15.26	15.42	15.49		
1.4	256QAM	3	0	15.27	15.50	15.50		
1.4	256QAM	3	1	15.25	15.41	15.52		
1.4	256QAM	3	3	15.24	15.44	15.47		
1.4	256QAM	6	0	15.24	15.48	15.46	16.5	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	20.56	20.71	20.68		
20	QPSK	1	49	20.62	20.69	20.63	22	0
20	QPSK	1	99	20.52	20.56	20.52	21	1
20	QPSK	50	0	19.76	19.87	19.84		
20	QPSK	50	24	19.94	19.97	19.88		
20	QPSK	50	50	19.83	19.84	19.85		
20	QPSK	100	0	19.81	19.80	19.85	21	1
20	16QAM	1	0	19.88	19.85	19.81		
20	16QAM	1	49	20.04	20.08	20.03		
20	16QAM	1	99	19.80	19.77	19.63	20	2
20	16QAM	50	0	18.78	18.81	18.76		
20	16QAM	50	24	18.94	18.93	18.80		
20	16QAM	50	50	18.78	18.84	18.79		
20	16QAM	100	0	18.79	18.77	18.71	20	2
20	64QAM	1	0	18.91	18.97	18.98		
20	64QAM	1	49	19.11	19.22	19.22		
20	64QAM	1	99	18.93	18.90	18.91		
20	64QAM	50	0	17.94	18.04	18.01	19	3
20	64QAM	50	24	18.06	18.16	17.99		
20	64QAM	50	50	17.97	18.03	18.00		
20	64QAM	100	0	17.97	17.98	17.94		
20	256QAM	1	0	15.56	15.71	15.60	17	2
20	256QAM	1	49	15.48	15.65	15.65		
20	256QAM	1	99	15.50	15.64	15.66		
20	256QAM	50	0	15.56	15.63	15.63	17	3
20	256QAM	50	24	15.52	15.70	15.62		
20	256QAM	50	50	15.55	15.62	15.63		
20	256QAM	100	0	15.55	15.66	15.62		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	20.65	20.66	20.62	22	0
15	QPSK	1	37	20.56	20.55	20.56		
15	QPSK	1	74	20.57	20.61	20.59		
15	QPSK	36	0	19.74	19.80	19.74	21	1
15	QPSK	36	20	19.89	19.94	19.86		
15	QPSK	36	39	19.84	19.86	19.80		
15	QPSK	75	0	19.80	19.79	19.82		
15	16QAM	1	0	19.86	19.90	20.01	21	1
15	16QAM	1	37	19.99	20.11	20.11		
15	16QAM	1	74	19.81	19.94	19.89		
15	16QAM	36	0	18.80	18.79	18.78	20	2
15	16QAM	36	20	18.89	18.93	18.89		
15	16QAM	36	39	18.87	18.83	18.83		
15	16QAM	75	0	18.82	18.82	18.85		
15	64QAM	1	0	19.05	19.06	18.91	20	2
15	64QAM	1	37	19.21	19.35	19.12		
15	64QAM	1	74	19.07	19.06	18.95		
15	64QAM	36	0	17.93	18.07	18.02	19	3
15	64QAM	36	20	18.03	18.22	18.12		
15	64QAM	36	39	17.99	18.07	18.06		
15	64QAM	75	0	17.97	18.01	18.06		



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15	256QAM	1	0	15.55	15.56	15.62	17	2
15	256QAM	1	37	15.56	15.65	15.58		
15	256QAM	1	74	15.57	15.57	15.57		
15	256QAM	36	0	15.58	15.61	15.59	17	3
15	256QAM	36	20	15.56	15.56	15.62		
15	256QAM	36	39	15.56	15.59	15.57		
15	256QAM	75	0	15.62	15.59	15.52	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	20.31	20.29	20.28	22	0
10	QPSK	1	25	20.59	20.65	20.53		
10	QPSK	1	49	20.26	20.29	20.19		
10	QPSK	25	0	19.57	19.61	19.54	21	1
10	QPSK	25	12	19.71	19.73	19.68		
10	QPSK	25	25	19.55	19.61	19.55		
10	QPSK	50	0	19.62	19.67	19.60	21	1
10	16QAM	1	0	19.68	19.74	19.64		
10	16QAM	1	25	19.88	20.03	19.96		
10	16QAM	1	49	19.59	19.73	19.59	20	2
10	16QAM	25	0	18.54	18.60	18.55		
10	16QAM	25	12	18.71	18.75	18.68		
10	16QAM	25	25	18.55	18.62	18.51	20	2
10	16QAM	50	0	18.61	18.64	18.60		
10	64QAM	1	0	18.65	18.82	18.72		
10	64QAM	1	25	19.00	19.08	19.00	20	2
10	64QAM	1	49	18.59	18.75	18.65		
10	64QAM	25	0	17.70	17.84	17.78		
10	64QAM	25	12	17.86	18.01	17.92	19	3
10	64QAM	25	25	17.73	17.87	17.75		
10	64QAM	50	0	17.78	17.91	17.80		
10	256QAM	1	0	15.24	15.25	15.24	17	2
10	256QAM	1	25	15.30	15.23	15.28		
10	256QAM	1	49	15.29	15.26	15.25		
10	256QAM	25	0	15.28	15.22	15.27	17	3
10	256QAM	25	12	15.22	15.21	15.25		
10	256QAM	25	25	15.29	15.28	15.22		
10	256QAM	50	0	15.21	15.22	15.27	Tune-up limit (dBm)	MPR (dB)
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	20.54	20.58	20.49	22	0
5	QPSK	1	12	20.61	20.68	20.56		
5	QPSK	1	24	20.52	20.52	20.46		
5	QPSK	12	0	19.69	19.72	19.64	21	1
5	QPSK	12	7	19.71	19.74	19.74		
5	QPSK	12	13	19.66	19.72	19.63		
5	QPSK	25	0	19.64	19.72	19.59	21	1
5	16QAM	1	0	19.96	19.93	19.88		
5	16QAM	1	12	20.00	19.95	19.96		
5	16QAM	1	24	19.87	19.84	19.77	20	2
5	16QAM	12	0	18.72	18.74	18.67		
5	16QAM	12	7	18.74	18.78	18.76		
5	16QAM	12	13	18.65	18.69	18.64	20	2
5	16QAM	25	0	18.67	18.74	18.61		
5	64QAM	1	0	18.92	19.07	18.92		
5	64QAM	1	12	18.95	19.04	18.96	20	2
5	64QAM	1	24	18.88	18.92	18.93		



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5	64QAM	12	0	17.87	17.96	17.84	19	3
5	64QAM	12	7	17.92	18.03	17.90		
5	64QAM	12	13	17.84	17.97	17.88		
5	64QAM	25	0	17.83	17.96	17.76		
5	256QAM	1	0	15.49	15.55	15.48	17	2
5	256QAM	1	12	15.44	15.53	15.39		
5	256QAM	1	24	15.51	15.55	15.47		
5	256QAM	12	0	15.49	15.52	15.44	17	3
5	256QAM	12	7	15.48	15.54	15.43		
5	256QAM	12	13	15.53	15.51	15.49		
5	256QAM	25	0	15.53	15.50	15.47		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	20.68	20.66	20.60	22	0
3	QPSK	1	8	20.68	20.63	20.65		
3	QPSK	1	14	20.56	20.62	20.52		
3	QPSK	8	0	19.72	19.76	19.68	21	1
3	QPSK	8	4	19.72	19.80	19.71		
3	QPSK	8	7	19.71	19.70	19.66		
3	QPSK	15	0	19.72	19.72	19.64		
3	16QAM	1	0	19.98	20.03	19.91	21	1
3	16QAM	1	8	20.05	20.06	19.98		
3	16QAM	1	14	19.88	19.99	19.90		
3	16QAM	8	0	18.81	18.84	18.72	20	2
3	16QAM	8	4	18.80	18.82	18.77		
3	16QAM	8	7	18.75	18.75	18.71		
3	16QAM	15	0	18.76	18.78	18.68		
3	64QAM	1	0	19.08	19.25	19.01	20	2
3	64QAM	1	8	19.12	19.24	19.06		
3	64QAM	1	14	18.99	19.11	18.96		
3	64QAM	8	0	17.92	18.00	17.92	19	3
3	64QAM	8	4	17.91	18.02	17.91		
3	64QAM	8	7	17.85	17.96	17.81		
3	64QAM	15	0	17.84	17.94	17.85		
3	256QAM	1	0	15.60	15.62	15.56	17	2
3	256QAM	1	8	15.58	15.58	15.52		
3	256QAM	1	14	15.68	15.56	15.50		
3	256QAM	8	0	15.68	15.58	15.53	17	3
3	256QAM	8	4	15.58	15.60	15.53		
3	256QAM	8	7	15.58	15.58	15.58		
3	256QAM	15	0	15.60	15.60	15.51		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	20.51	20.56	20.49	22	0
1.4	QPSK	1	3	20.55	20.62	20.52		
1.4	QPSK	1	5	20.49	20.52	20.46		
1.4	QPSK	3	0	20.59	20.60	20.56		
1.4	QPSK	3	1	20.58	20.60	20.57		
1.4	QPSK	3	3	20.55	20.60	20.47	21	1
1.4	QPSK	6	0	19.58	19.63	19.56		
1.4	16QAM	1	0	19.88	19.88	19.80	21	1
1.4	16QAM	1	3	19.98	19.95	19.89		
1.4	16QAM	1	5	19.86	19.85	19.77		
1.4	16QAM	3	0	19.68	19.72	19.65		
1.4	16QAM	3	1	19.70	19.73	19.71		
1.4	16QAM	3	3	19.64	19.68	19.58		



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1.4	16QAM	6	0	18.69	18.68	18.67	20	2
1.4	64QAM	1	0	18.91	19.04	18.87	20	2
1.4	64QAM	1	3	19.00	19.10	18.96		
1.4	64QAM	1	5	18.88	19.00	18.88		
1.4	64QAM	3	0	18.91	19.02	18.87		
1.4	64QAM	3	1	19.00	19.06	18.97		
1.4	64QAM	3	3	18.87	19.03	18.86		
1.4	64QAM	6	0	17.78	17.85	17.71	19	3
1.4	256QAM	1	0	15.41	15.50	15.40	17	0
1.4	256QAM	1	3	15.45	15.50	15.44		
1.4	256QAM	1	5	15.42	15.53	15.43		
1.4	256QAM	3	0	15.49	15.56	15.45		
1.4	256QAM	3	1	15.49	15.49	15.45		
1.4	256QAM	3	3	15.42	15.53	15.40		
1.4	256QAM	6	0	15.43	15.48	15.46	17	0



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	21.40	21.45	21.41	22.8	0
10	QPSK	1	25	21.45	21.40	21.38		
10	QPSK	1	49	21.58	21.46	21.44		
10	QPSK	25	0	21.24	21.26	21.27	22.8	0
10	QPSK	25	12	21.41	21.39	21.37		
10	QPSK	25	25	21.19	21.13	21.16		
10	QPSK	50	0	21.10	21.09	21.07	21.8	1
10	16QAM	1	0	21.36	21.55	21.55		
10	16QAM	1	25	21.41	21.52	21.49		
10	16QAM	1	49	21.54	21.56	21.54	21.8	1
10	16QAM	25	0	21.31	21.34	21.34		
10	16QAM	25	12	21.35	21.21	21.29		
10	16QAM	25	25	21.19	21.42	21.19	20.8	2
10	16QAM	50	0	21.17	21.18	21.17		
10	64QAM	1	0	20.27	20.25	20.37		
10	64QAM	1	25	20.43	20.42	20.32	19.8	3
10	64QAM	1	49	20.42	20.35	20.34		
10	64QAM	25	0	20.12	20.14	20.16		
10	64QAM	25	12	19.18	19.10	19.11	18.8	4
10	64QAM	25	25	19.08	19.23	19.14		
10	64QAM	50	0	19.13	19.15	19.03		
10	256QAM	1	0	17.42	17.45	17.41	18.8	4
10	256QAM	1	25	17.45	17.40	17.38		
10	256QAM	1	49	17.52	17.46	17.42		
10	256QAM	25	0	17.24	17.26	17.27	18.8	4
10	256QAM	25	12	17.41	17.39	17.37		
10	256QAM	25	25	17.19	17.19	17.16		
10	256QAM	50	0	17.10	17.11	17.09	Tune-up limit (dBm)	MPR (dB)
Channel				20425	20525	20625		
Frequency (MHz)				826.5	836.5	846.5	22.8	0
5	QPSK	1	0	21.56	21.40	21.32		
5	QPSK	1	12	21.43	21.38	21.49		
5	QPSK	1	24	21.57	21.50	21.39	22.8	0
5	QPSK	12	0	21.22	21.31	21.43		
5	QPSK	12	7	21.35	21.07	21.20		
5	QPSK	12	13	21.20	21.10	21.09	21.8	1
5	QPSK	25	0	21.09	21.50	21.48		
5	16QAM	1	0	21.30	21.37	21.52		
5	16QAM	1	12	21.33	21.39	21.48	21.8	1
5	16QAM	1	24	21.21	21.52	21.47		
5	16QAM	12	0	21.28	21.31	21.30		
5	16QAM	12	7	21.33	21.20	21.27	20.8	2
5	16QAM	12	13	21.20	21.40	21.21		
5	16QAM	25	0	21.19	21.15	21.14		
5	64QAM	1	0	21.24	21.23	21.34	19.8	3
5	64QAM	1	12	21.40	21.38	21.32		
5	64QAM	1	24	21.41	21.31	21.31		
5	64QAM	12	0	21.15	21.15	21.14	19.8	3
5	64QAM	12	7	21.17	21.12	21.11		
5	64QAM	12	13	21.05	21.21	21.11		
5	64QAM	25	0	21.11	21.15	21.00		



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5	256QAM	1	0	17.32	17.41	17.38	18.8	4
5	256QAM	1	12	17.40	17.37	17.37		
5	256QAM	1	24	17.45	17.37	17.40		
5	256QAM	12	0	17.18	17.18	17.27	18.8	4
5	256QAM	12	7	17.41	17.31	17.30		
5	256QAM	12	13	17.15	17.11	17.12		
5	256QAM	25	0	17.10	17.09	17.00	Tune-up limit (dBm)	MPR (dB)
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	21.54	21.57	21.50	22.8	0
3	QPSK	1	8	21.41	21.54	21.55		
3	QPSK	1	14	21.50	21.51	21.52		
3	QPSK	8	0	21.20	21.50	21.57	22.8	0
3	QPSK	8	4	21.30	21.53	21.57		
3	QPSK	8	7	21.15	21.47	21.55		
3	QPSK	15	0	21.05	21.46	21.52	21.8	1
3	16QAM	1	0	21.18	21.35	21.38		
3	16QAM	1	8	21.34	21.49	21.47		
3	16QAM	1	14	21.39	21.38	21.45	21.8	1
3	16QAM	8	0	21.30	21.20	21.24		
3	16QAM	8	4	21.27	21.10	21.13		
3	16QAM	8	7	21.03	21.36	21.02	20.8	2
3	16QAM	15	0	21.14	21.16	21.07		
3	64QAM	1	0	21.18	21.17	21.29		
3	64QAM	1	8	21.30	21.35	21.23	19.8	3
3	64QAM	1	14	21.32	21.26	21.23		
3	64QAM	8	0	21.03	21.06	21.06		
3	64QAM	8	4	21.01	21.02	21.09	18.8	4
3	64QAM	8	7	20.90	21.18	21.09		
3	64QAM	15	0	21.04	21.11	20.99		
3	256QAM	1	0	17.24	17.38	17.30	18.8	4
3	256QAM	1	8	17.33	17.36	17.35		
3	256QAM	1	14	17.43	17.29	17.34		
3	256QAM	8	0	17.14	17.14	17.20	18.8	4
3	256QAM	8	4	17.31	17.21	17.30		
3	256QAM	8	7	17.14	17.02	17.02		
3	256QAM	15	0	17.06	17.00	16.95	Tune-up limit (dBm)	MPR (dB)
Channel				20407	20525	20643		
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	21.40	21.40	21.45	22.8	0
1.4	QPSK	1	3	21.30	21.37	21.43		
1.4	QPSK	1	5	21.40	21.33	21.34		
1.4	QPSK	3	0	21.12	21.34	21.49	22.8	0
1.4	QPSK	3	1	21.15	21.36	21.48		
1.4	QPSK	3	3	21.09	21.30	21.37		
1.4	QPSK	6	0	21.03	21.38	21.48	22.8	0
1.4	16QAM	1	0	21.35	21.39	21.43	21.8	1
1.4	16QAM	1	3	21.32	21.40	21.31		
1.4	16QAM	1	5	21.38	21.40	21.53		
1.4	16QAM	3	0	21.11	21.33	21.23	21.8	1
1.4	16QAM	3	1	21.15	21.15	21.25		
1.4	16QAM	3	3	21.06	21.29	21.12		
1.4	16QAM	6	0	21.16	21.01	21.07	21.8	1
1.4	64QAM	1	0	21.09	21.08	21.32	20.8	2
1.4	64QAM	1	3	21.30	21.39	21.16		
1.4	64QAM	1	5	21.39	21.20	21.20		



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1.4	64QAM	3	0	21.01	21.12	21.04		
1.4	64QAM	3	1	21.06	21.01	20.91		
1.4	64QAM	3	3	20.91	21.13	21.08		
1.4	64QAM	6	0	20.95	21.07	20.95	19.8	3
1.4	256QAM	1	0	17.19	17.28	17.25	18.8	4
1.4	256QAM	1	3	17.32	17.31	17.26		
1.4	256QAM	1	5	17.40	17.20	17.24		
1.4	256QAM	3	0	17.13	17.12	17.17		
1.4	256QAM	3	1	17.29	17.21	17.23		
1.4	256QAM	3	3	17.07	16.98	16.95		
1.4	256QAM	6	0	17.04	16.95	16.92	18.8	4

<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	14.8	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	14.23	14.18	14.21	14.8	0
20	QPSK	1	49	14.13	14.15	14.15		
20	QPSK	1	99	14.15	14.14	14.17		
20	QPSK	50	0	14.20	14.12	14.14	14.8	0
20	QPSK	50	24	14.21	14.17	14.20		
20	QPSK	50	50	14.18	14.16	14.19		
20	QPSK	100	0	14.20	14.15	14.11	14.8	0
20	16QAM	1	0	14.13	14.15	14.11		
20	16QAM	1	49	14.14	14.03	14.04		
20	16QAM	1	99	14.17	14.07	14.08	14.8	0
20	16QAM	50	0	14.17	14.14	14.07		
20	16QAM	50	24	14.16	14.09	14.03		
20	16QAM	50	50	14.13	14.00	14.05	14.8	0
20	16QAM	100	0	14.21	14.18	14.11		
20	64QAM	1	0	14.21	14.19	14.20	14.8	0
20	64QAM	1	49	14.16	14.19	14.11		
20	64QAM	1	99	14.14	14.14	14.13		
20	64QAM	50	0	14.19	14.12	14.15	14.8	0
20	64QAM	50	24	14.18	14.14	14.20		
20	64QAM	50	50	14.17	14.16	14.17		
20	64QAM	100	0	14.18	14.13	14.19	14.8	0
20	256QAM	1	0	14.09	13.98	14.10		
20	256QAM	1	49	14.11	14.04	14.09		
20	256QAM	1	99	14.07	14.04	14.08	14.8	0
20	256QAM	50	0	14.06	14.13	14.11		
20	256QAM	50	24	14.13	14.15	14.13		
20	256QAM	50	50	14.07	14.11	14.01	14.8	0
20	256QAM	100	0	14.03	14.08	14.09		
Channel				20825	21100	21375	14.8	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	14.11	14.03	14.09	14.8	0
15	QPSK	1	37	14.08	14.12	14.13		
15	QPSK	1	74	14.08	14.09	14.06		
15	QPSK	36	0	14.07	14.10	13.96	14.8	0
15	QPSK	36	20	14.07	14.09	14.15		
15	QPSK	36	39	14.15	14.00	14.16		
15	QPSK	75	0	14.17	14.14	13.99	14.8	0
15	16QAM	1	0	13.97	13.97	14.02		
15	16QAM	1	37	14.03	13.94	13.86		
15	16QAM	1	74	14.09	13.95	14.05	14.8	0
15	16QAM	36	0	14.05	14.01	13.92		
15	16QAM	36	20	13.99	14.03	13.99		
15	16QAM	36	39	14.04	13.90	14.02	14.8	0
15	16QAM	75	0	14.14	14.16	14.08		
15	64QAM	1	0	14.01	14.11	14.18		
15	64QAM	1	37	14.11	14.04	13.94	14.8	0
15	64QAM	1	74	14.09	14.09	13.94		
15	64QAM	36	0	14.04	14.10	14.08		
15	64QAM	36	20	14.09	14.01	14.05	14.8	0
15	64QAM	36	39	14.13	13.97	14.07		
15	64QAM	75	0	14.11	14.10	14.07		



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15	256QAM	1	0	14.04	13.99	13.96	14.8	0
15	256QAM	1	37	14.06	13.86	13.93		
15	256QAM	1	74	14.11	13.85	14.05		
15	256QAM	36	0	14.01	13.85	14.09	14.8	0
15	256QAM	36	20	13.99	13.98	13.93		
15	256QAM	36	39	14.11	13.94	13.98		
15	256QAM	75	0	13.94	13.86	14.09		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	14.13	14.14	14.08	14.8	0
10	QPSK	1	25	14.10	13.95	14.03		
10	QPSK	1	49	14.07	14.00	14.01		
10	QPSK	25	0	14.07	13.99	13.96	14.8	0
10	QPSK	25	12	14.05	14.05	14.16		
10	QPSK	25	25	13.99	14.09	14.04		
10	QPSK	50	0	14.00	14.13	14.00		
10	16QAM	1	0	14.05	14.00	13.99	14.8	0
10	16QAM	1	25	14.04	13.84	13.97		
10	16QAM	1	49	14.08	13.87	13.95		
10	16QAM	25	0	14.04	14.05	14.01	14.8	0
10	16QAM	25	12	14.12	14.03	13.88		
10	16QAM	25	25	14.00	13.85	14.01		
10	16QAM	50	0	14.04	14.05	14.00		
10	64QAM	1	0	14.12	14.00	14.16	14.8	0
10	64QAM	1	25	14.02	14.07	14.06		
10	64QAM	1	49	13.97	14.05	13.97		
10	64QAM	25	0	14.00	13.99	14.05	14.8	0
10	64QAM	25	12	14.06	14.05	14.19		
10	64QAM	25	25	14.03	14.01	13.97		
10	64QAM	50	0	13.98	14.04	14.15		
10	256QAM	1	0	14.12	14.09	13.97	14.8	0
10	256QAM	1	25	13.96	14.05	13.90		
10	256QAM	1	49	13.99	14.09	13.96		
10	256QAM	25	0	13.97	14.01	14.03	14.8	0
10	256QAM	25	12	14.06	14.03	14.07		
10	256QAM	25	25	13.94	13.95	14.05		
10	256QAM	50	0	14.08	13.99	13.89		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	14.12	14.14	14.16	14.8	0
5	QPSK	1	12	14.03	13.96	14.07		
5	QPSK	1	24	14.07	14.13	14.12		
5	QPSK	12	0	14.06	14.01	13.95	14.8	0
5	QPSK	12	7	14.03	14.02	14.04		
5	QPSK	12	13	14.02	14.03	14.15		
5	QPSK	25	0	14.07	13.99	13.96		
5	16QAM	1	0	14.04	14.04	13.98	14.8	0
5	16QAM	1	12	14.09	13.91	13.84		
5	16QAM	1	24	14.03	13.87	13.97		
5	16QAM	12	0	14.15	14.05	13.89	14.8	0
5	16QAM	12	7	13.98	13.89	13.89		
5	16QAM	12	13	14.00	13.87	13.93		
5	16QAM	25	0	14.11	14.10	14.01		
5	64QAM	1	0	14.02	14.06	14.03	14.8	0
5	64QAM	1	12	14.05	14.11	13.92		
5	64QAM	1	24	13.98	14.12	14.04		



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5	64QAM	12	0	14.07	14.03	14.08	14.8	0
5	64QAM	12	7	14.17	13.99	14.14		
5	64QAM	12	13	14.13	14.00	14.04		
5	64QAM	25	0	14.06	14.08	14.05		
5	256QAM	1	0	13.93	14.07	13.98	14.8	0
5	256QAM	1	12	13.98	14.12	14.08		
5	256QAM	1	24	14.06	14.10	14.10		
5	256QAM	12	0	14.04	14.08	14.07	14.8	0
5	256QAM	12	7	14.06	14.03	14.15		
5	256QAM	12	13	14.02	13.94	13.96		
5	256QAM	25	0	13.95	13.99	14.11		



<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		21.23		22.3	0
10	QPSK	1	25		21.18			
10	QPSK	1	49		21.15			
10	QPSK	25	0		21.12		22.3	0
10	QPSK	25	12		21.14			
10	QPSK	25	25		21.10			
10	QPSK	50	0		21.15		22.3	0
10	16QAM	1	0		21.20			
10	16QAM	1	25		21.15			
10	16QAM	1	49		21.19		21.3	1
10	16QAM	25	0		20.72			
10	16QAM	25	12		20.76			
10	16QAM	25	25		20.78		21.3	1
10	16QAM	50	0		20.70			
10	64QAM	1	0		20.34			
10	64QAM	1	25		20.52		21.3	1
10	64QAM	1	49		20.58			
10	64QAM	25	0		19.80			
10	64QAM	25	12		19.77		20.3	2
10	64QAM	25	25		19.77			
10	64QAM	50	0		19.82			
10	256QAM	1	0		17.64		18.8	1
10	256QAM	1	25		17.63			
10	256QAM	1	49		17.65			
10	256QAM	25	0		17.67		18.8	2
10	256QAM	25	12		17.67			
10	256QAM	25	25		17.61			
10	256QAM	50	0		17.68			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	21.16	20.96	21.01	22.3	0
5	QPSK	1	12	21.09	21.11	21.12		
5	QPSK	1	24	21.15	21.05	21.08		
5	QPSK	12	0	21.15	21.10	21.08	22.3	0
5	QPSK	12	7	21.20	21.15	21.16		
5	QPSK	12	13	21.02	21.15	21.18		
5	QPSK	25	0	21.20	21.11	21.04	22.3	0
5	16QAM	1	0	21.20	20.96	21.03		
5	16QAM	1	12	21.04	21.03	21.07		
5	16QAM	1	24	21.02	21.03	21.06	21.3	1
5	16QAM	12	0	20.94	20.89	20.88		
5	16QAM	12	7	21.01	20.90	20.81		
5	16QAM	12	13	20.99	20.89	20.90	21.3	1
5	16QAM	25	0	21.00	20.83	20.88		
5	64QAM	1	0	21.07	21.13	20.92		
5	64QAM	1	12	21.10	21.06	20.86	21.3	1
5	64QAM	1	24	20.71	20.91	20.91		
5	64QAM	12	0	19.65	19.84	19.70		
5	64QAM	12	7	19.78	19.81	19.71	20.3	2
5	64QAM	12	13	19.72	19.84	19.80		
5	64QAM	25	0	19.77	19.59	19.66		



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5	256QAM	1	0	17.66	17.66	17.53	18.8	1
5	256QAM	1	12	17.61	17.63	17.59		
5	256QAM	1	24	17.59	17.62	17.52		
5	256QAM	12	0	17.68	17.66	17.49	18.8	2
5	256QAM	12	7	17.55	17.54	17.62		
5	256QAM	12	13	17.54	17.59	17.56		
5	256QAM	25	0	17.53	17.55	17.39		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	15.82	15.90	15.87	16.5	0
20	QPSK	1	49	15.78	15.87	15.83		
20	QPSK	1	99	15.75	15.81	15.76		
20	QPSK	50	0	15.85	15.85	15.82	16.5	0
20	QPSK	50	24	15.88	15.89	15.84		
20	QPSK	50	50	15.86	15.85	15.81		
20	QPSK	100	0	15.85	15.88	15.83	16.5	0
20	16QAM	1	0	15.84	15.89	15.85		
20	16QAM	1	49	15.81	15.58	15.87		
20	16QAM	1	99	15.83	15.84	15.87	16.5	0
20	16QAM	50	0	15.84	15.82	15.83		
20	16QAM	50	24	15.81	15.80	15.82		
20	16QAM	50	50	15.89	15.84	15.83	16.5	0
20	16QAM	100	0	15.80	15.88	15.80		
20	64QAM	1	0	15.86	15.85	15.85	16.5	0
20	64QAM	1	49	15.84	15.85	15.81		
20	64QAM	1	99	15.83	15.88	15.83		
20	64QAM	50	0	15.84	15.84	15.85	16.5	0
20	64QAM	50	24	15.81	15.80	15.84		
20	64QAM	50	50	15.82	15.88	15.87		
20	64QAM	100	0	15.83	15.86	15.81	16.5	0
20	256QAM	1	0	15.72	15.87	15.86		
20	256QAM	1	49	15.70	15.85	15.79		
20	256QAM	1	99	15.70	15.79	15.76	16.5	0
20	256QAM	50	0	15.71	15.86	15.87		
20	256QAM	50	24	15.72	15.72	15.75		
20	256QAM	50	50	15.75	15.82	15.87	16.5	0
20	256QAM	100	0	15.62	15.84	15.79		
Channel				26115	26340	26615		
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	15.42	15.80	15.79	16.5	0
15	QPSK	1	37	15.66	15.74	15.73		
15	QPSK	1	74	15.50	15.74	15.75		
15	QPSK	36	0	15.61	15.70	15.72	16.5	0
15	QPSK	36	20	15.78	15.89	15.81		
15	QPSK	36	39	15.74	15.85	15.84		
15	QPSK	75	0	15.72	15.82	15.83	16.5	0
15	16QAM	1	0	15.80	15.70	15.76		
15	16QAM	1	37	15.71	15.50	15.77		
15	16QAM	1	74	15.76	15.70	15.80	16.5	0
15	16QAM	36	0	15.60	15.71	15.71		
15	16QAM	36	20	15.77	15.88	15.87		
15	16QAM	36	39	15.71	15.82	15.83	16.5	0
15	16QAM	75	0	15.68	15.80	15.82		
15	64QAM	1	0	15.65	15.82	15.80		
15	64QAM	1	37	15.82	15.87	15.82	16.5	0
15	64QAM	1	74	15.71	15.84	15.81		
15	64QAM	36	0	15.61	15.73	15.75		
15	64QAM	36	20	15.79	15.80	15.83	16.5	0
15	64QAM	36	39	15.74	15.85	15.86		
15	64QAM	75	0	15.71	15.81	15.88		



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15	256QAM	1	0	15.28	15.63	15.75	16.5	0
15	256QAM	1	37	15.24	15.63	15.79		
15	256QAM	1	74	15.42	15.61	15.69		
15	256QAM	36	0	15.36	15.69	15.67	16.5	0
15	256QAM	36	20	15.29	15.60	15.61		
15	256QAM	36	39	15.28	15.78	15.75		
15	256QAM	75	0	15.22	15.65	15.70	Tune-up limit (dBm)	MPR (dB)
Channel				26090	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	15.22	15.34	15.65	16.5	0
10	QPSK	1	25	15.43	15.58	15.59		
10	QPSK	1	49	15.22	15.35	15.58		
10	QPSK	25	0	15.45	15.59	15.57	16.5	0
10	QPSK	25	12	15.61	15.72	15.66		
10	QPSK	25	25	15.55	15.68	15.71		
10	QPSK	50	0	15.55	15.67	15.63	16.5	0
10	16QAM	1	0	15.60	15.69	15.87		
10	16QAM	1	25	15.82	15.84	15.86		
10	16QAM	1	49	15.57	15.67	15.88	16.5	0
10	16QAM	25	0	15.40	15.60	15.58		
10	16QAM	25	12	15.58	15.74	15.69		
10	16QAM	25	25	15.54	15.68	15.69	16.5	0
10	16QAM	50	0	15.52	15.67	15.60		
10	64QAM	1	0	15.40	15.60	15.84		
10	64QAM	1	25	15.77	15.80	15.80	16.5	0
10	64QAM	1	49	15.49	15.66	15.82		
10	64QAM	25	0	15.43	15.61	15.63		
10	64QAM	25	12	15.63	15.79	15.71	16.5	0
10	64QAM	25	25	15.55	15.69	15.75		
10	64QAM	50	0	15.54	15.68	15.59		
10	256QAM	1	0	15.17	15.30	15.53	16.5	0
10	256QAM	1	25	15.19	15.27	15.65		
10	256QAM	1	49	15.10	15.32	15.62		
10	256QAM	25	0	15.05	15.17	15.60	16.5	0
10	256QAM	25	12	15.14	15.27	15.53		
10	256QAM	25	25	15.05	15.32	15.52		
10	256QAM	50	0	15.22	15.26	15.64	Tune-up limit (dBm)	MPR (dB)
Channel				26065	26340	26665		
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	15.45	15.54	15.60	16.5	0
5	QPSK	1	12	15.47	15.63	15.69		
5	QPSK	1	24	15.48	15.65	15.65		
5	QPSK	12	0	15.58	15.64	15.63	16.5	0
5	QPSK	12	7	15.63	15.76	15.68		
5	QPSK	12	13	15.59	15.74	15.74		
5	QPSK	25	0	15.58	15.72	15.69	16.5	0
5	16QAM	1	0	15.73	15.86	15.83		
5	16QAM	1	12	15.73	15.88	15.80		
5	16QAM	1	24	15.83	15.86	15.84	16.5	0
5	16QAM	12	0	15.57	15.68	15.65		
5	16QAM	12	7	15.63	15.74	15.72		
5	16QAM	12	13	15.60	15.76	15.75	16.5	0
5	16QAM	25	0	15.60	15.75	15.68		
5	64QAM	1	0	15.70	15.78	15.85		
5	64QAM	1	12	15.69	15.80	15.88	16.5	0
5	64QAM	1	24	15.74	15.87	15.87		



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5	64QAM	12	0	15.62	15.73	15.70	16.5	0
5	64QAM	12	7	15.66	15.82	15.75		
5	64QAM	12	13	15.65	15.80	15.81		
5	64QAM	25	0	15.58	15.73	15.72		
5	256QAM	1	0	15.35	15.52	15.52	16.5	0
5	256QAM	1	12	15.41	15.37	15.44		
5	256QAM	1	24	15.31	15.52	15.54		
5	256QAM	12	0	15.30	15.37	15.49	16.5	0
5	256QAM	12	7	15.28	15.40	15.52		
5	256QAM	12	13	15.45	15.49	15.45		
5	256QAM	25	0	15.32	15.34	15.59		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	15.46	15.53	15.65	16.5	0
3	QPSK	1	8	15.53	15.69	15.68		
3	QPSK	1	14	15.50	15.65	15.68		
3	QPSK	8	0	15.56	15.66	15.72	16.5	0
3	QPSK	8	4	15.60	15.78	15.72		
3	QPSK	8	7	15.55	15.73	15.75		
3	QPSK	15	0	15.57	15.73	15.71		
3	16QAM	1	0	15.75	15.87	15.80	16.5	0
3	16QAM	1	8	15.83	15.88	15.84		
3	16QAM	1	14	15.77	15.85	15.82		
3	16QAM	8	0	15.59	15.68	15.76	16.5	0
3	16QAM	8	4	15.64	15.80	15.79		
3	16QAM	8	7	15.61	15.78	15.78		
3	16QAM	15	0	15.59	15.75	15.76		
3	64QAM	1	0	15.68	15.81	15.85	16.5	0
3	64QAM	1	8	15.77	15.87	15.84		
3	64QAM	1	14	15.74	15.81	15.88		
3	64QAM	8	0	15.61	15.72	15.75	16.5	0
3	64QAM	8	4	15.63	15.78	15.80		
3	64QAM	8	7	15.63	15.81	15.79		
3	64QAM	15	0	15.61	15.74	15.74		
3	256QAM	1	0	15.45	15.44	15.54	16.5	0
3	256QAM	1	8	15.29	15.47	15.52		
3	256QAM	1	14	15.42	15.37	15.47		
3	256QAM	8	0	15.30	15.35	15.54	16.5	0
3	256QAM	8	4	15.42	15.39	15.48		
3	256QAM	8	7	15.37	15.48	15.60		
3	256QAM	15	0	15.40	15.51	15.56		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	15.36	15.44	15.53	16.5	0
1.4	QPSK	1	3	15.45	15.60	15.60		
1.4	QPSK	1	5	15.41	15.55	15.54		
1.4	QPSK	3	0	15.44	15.54	15.56		
1.4	QPSK	3	1	15.45	15.59	15.58		
1.4	QPSK	3	3	15.43	15.56	15.56		
1.4	QPSK	6	0	15.52	15.63	15.62	16.5	0
1.4	16QAM	1	0	15.68	15.81	15.81	16.5	0
1.4	16QAM	1	3	15.74	15.87	15.87		
1.4	16QAM	1	5	15.67	15.81	15.87		
1.4	16QAM	3	0	15.46	15.61	15.64		
1.4	16QAM	3	1	15.51	15.67	15.66		
1.4	16QAM	3	3	15.46	15.61	15.63		



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1.4	16QAM	6	0	15.55	15.71	15.70	16.5	0
1.4	64QAM	1	0	15.66	15.70	15.75	16.5	0
1.4	64QAM	1	3	15.70	15.86	15.86		
1.4	64QAM	1	5	15.67	15.78	15.79		
1.4	64QAM	3	0	15.59	15.75	15.76		
1.4	64QAM	3	1	15.64	15.80	15.81		
1.4	64QAM	3	3	15.62	15.73	15.75		
1.4	64QAM	6	0	15.50	15.64	15.66	16.5	3
1.4	256QAM	1	0	15.36	15.26	15.50	16.5	0
1.4	256QAM	1	3	15.17	15.30	15.47		
1.4	256QAM	1	5	15.29	15.26	15.46		
1.4	256QAM	3	0	15.17	15.29	15.34		
1.4	256QAM	3	1	15.18	15.36	15.40		
1.4	256QAM	3	3	15.35	15.30	15.41		
1.4	256QAM	6	0	15.23	15.43	15.44	16.5	0



<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	21.26	21.30	21.27		
15	QPSK	1	37	21.22	21.21	21.17	22.3	0
15	QPSK	1	74	21.20	21.16	21.01		
15	QPSK	36	0	21.22	21.21	21.16		
15	QPSK	36	20	21.26	21.27	21.21	22.3	0
15	QPSK	36	39	21.25	21.22	21.18		
15	QPSK	75	0	21.18	21.22	21.14		
15	16QAM	1	0	21.26	21.26	21.29	22.3	0
15	16QAM	1	37	21.29	21.25	21.28		
15	16QAM	1	74	21.26	21.28	21.25		
15	16QAM	36	0	20.70	20.71	20.68	21.3	1
15	16QAM	36	20	20.84	20.76	20.80		
15	16QAM	36	39	20.77	20.73	20.70		
15	16QAM	75	0	20.80	20.69	20.75		
15	64QAM	1	0	21.08	21.03	21.01	21.3	1
15	64QAM	1	37	21.05	20.87	20.64		
15	64QAM	1	74	21.06	20.58	20.69		
15	64QAM	36	0	19.70	19.64	19.63	20.3	2
15	64QAM	36	20	19.73	19.76	19.81		
15	64QAM	36	39	19.66	19.68	19.68		
15	64QAM	75	0	19.75	19.62	19.64		
15	256QAM	1	0	17.62	17.66	17.67	18.8	1
15	256QAM	1	37	17.65	17.65	17.61		
15	256QAM	1	74	17.62	17.67	17.66		
15	256QAM	36	0	17.66	17.65	17.64	18.8	2
15	256QAM	36	20	17.62	17.63	17.64		
15	256QAM	36	39	17.64	17.63	17.65		
15	256QAM	75	0	17.66	17.65	17.66		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	21.01	21.25	21.03		
10	QPSK	1	25	21.07	21.03	21.03	22.3	0
10	QPSK	1	49	21.12	21.06	20.91		
10	QPSK	25	0	20.96	20.99	20.92		
10	QPSK	25	12	21.23	21.00	21.01	22.3	0
10	QPSK	25	25	20.99	20.99	21.02		
10	QPSK	50	0	21.10	21.03	20.91		
10	16QAM	1	0	21.28	21.25	21.29	22.3	0
10	16QAM	1	25	21.27	21.27	21.22		
10	16QAM	1	49	21.29	21.19	21.29		
10	16QAM	25	0	20.56	20.44	20.37	21.3	1
10	16QAM	25	12	20.75	20.61	20.46		
10	16QAM	25	25	20.55	20.49	20.49		
10	16QAM	50	0	20.60	20.47	20.42		
10	64QAM	1	0	20.84	20.81	20.86	21.3	1
10	64QAM	1	25	20.96	21.03	20.74		
10	64QAM	1	49	21.01	20.76	20.69		
10	64QAM	25	0	19.48	19.55	19.43	20.3	2
10	64QAM	25	12	19.74	19.71	19.57		
10	64QAM	25	25	19.60	19.56	19.57		
10	64QAM	50	0	19.56	19.40	19.44		



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10	256QAM	1	0	17.56	17.61	17.57	18.8	1
10	256QAM	1	25	17.59	17.52	17.58		
10	256QAM	1	49	17.53	17.59	17.52		
10	256QAM	25	0	17.56	17.56	17.54	18.8	2
10	256QAM	25	12	17.60	17.57	17.56		
10	256QAM	25	25	17.60	17.61	17.56		
10	256QAM	50	0	17.56	17.53	17.57	Tune-up limit (dBm)	MPR (dB)
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	20.88	20.98	20.86	22.3	0
5	QPSK	1	12	21.09	20.95	20.98		
5	QPSK	1	24	20.87	20.97	20.81		
5	QPSK	12	0	21.16	21.02	20.96	22.3	0
5	QPSK	12	7	21.22	21.20	21.00		
5	QPSK	12	13	21.14	21.17	21.07		
5	QPSK	25	0	21.10	21.04	21.00	22.3	0
5	16QAM	1	0	21.27	21.26	21.13		
5	16QAM	1	12	21.28	21.25	21.23		
5	16QAM	1	24	21.25	21.23	21.20	21.3	1
5	16QAM	12	0	20.58	20.56	20.43		
5	16QAM	12	7	20.61	20.67	20.52		
5	16QAM	12	13	20.61	20.62	20.58	21.3	1
5	16QAM	25	0	20.68	20.59	20.50		
5	64QAM	1	0	20.67	20.59	20.59		
5	64QAM	1	12	20.67	20.71	20.62	21.3	1
5	64QAM	1	24	20.81	20.66	20.57		
5	64QAM	12	0	19.66	19.62	19.50	20.3	2
5	64QAM	12	7	19.70	19.68	19.55		
5	64QAM	12	13	19.64	19.72	19.58		
5	64QAM	25	0	19.69	19.58	19.57	18.8	1
5	256QAM	1	0	17.42	17.39	17.39		
5	256QAM	1	12	17.42	17.41	17.42		
5	256QAM	1	24	17.43	17.39	17.43	18.8	2
5	256QAM	12	0	17.38	17.46	17.38		
5	256QAM	12	7	17.46	17.43	17.37		
5	256QAM	12	13	17.45	17.42	17.38	18.8	2
5	256QAM	25	0	17.46	17.40	17.37		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	20.96	20.93	21.02	22.3	0
3	QPSK	1	8	21.03	21.09	21.00		
3	QPSK	1	14	21.15	20.96	20.88		
3	QPSK	8	0	21.16	21.09	21.00	22.3	0
3	QPSK	8	4	21.23	21.13	21.04		
3	QPSK	8	7	21.14	21.10	20.98		
3	QPSK	15	0	21.13	21.05	21.04	22.3	0
3	16QAM	1	0	21.26	21.25	21.23		
3	16QAM	1	8	21.25	21.23	21.25		
3	16QAM	1	14	21.29	21.28	21.29	21.3	1
3	16QAM	8	0	20.60	20.58	20.55		
3	16QAM	8	4	20.77	20.75	20.65		
3	16QAM	8	7	20.65	20.67	20.54	21.3	1
3	16QAM	15	0	20.73	20.62	20.60		
3	64QAM	1	0	20.85	20.34	20.86		
3	64QAM	1	8	20.77	20.48	20.86	21.3	1
3	64QAM	1	14	20.56	20.54	20.75		



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3	64QAM	8	0	19.58	19.66	19.59	20.3	2
3	64QAM	8	4	19.69	19.79	19.59		
3	64QAM	8	7	19.58	19.65	19.55		
3	64QAM	15	0	19.71	19.60	19.58		
3	256QAM	1	0	17.41	17.32	17.41	18.8	1
3	256QAM	1	8	17.38	17.32	17.40		
3	256QAM	1	14	17.34	17.33	17.34		
3	256QAM	8	0	17.34	17.35	17.36	18.8	2
3	256QAM	8	4	17.33	17.34	17.35		
3	256QAM	8	7	17.42	17.40	17.37		
3	256QAM	15	0	17.36	17.33	17.33		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	21.08	20.91	20.86	22.3	0
1.4	QPSK	1	3	21.08	21.02	20.99		
1.4	QPSK	1	5	20.97	21.02	20.83		
1.4	QPSK	3	0	21.02	20.86	20.83		
1.4	QPSK	3	1	21.08	20.98	20.96		
1.4	QPSK	3	3	21.05	21.00	20.92		
1.4	QPSK	6	0	21.08	20.97	20.92	22.3	0
1.4	16QAM	1	0	21.25	21.27	21.15	22.3	0
1.4	16QAM	1	3	21.29	21.28	21.26		
1.4	16QAM	1	5	21.22	21.22	21.28		
1.4	16QAM	3	0	21.19	21.07	20.89		
1.4	16QAM	3	1	21.18	20.97	20.93		
1.4	16QAM	3	3	21.13	21.04	20.97		
1.4	16QAM	6	0	20.61	20.59	20.61	21.3	1
1.4	64QAM	1	0	20.64	20.65	20.83	21.3	1
1.4	64QAM	1	3	20.77	20.78	20.87		
1.4	64QAM	1	5	20.73	20.69	20.73		
1.4	64QAM	3	0	20.81	20.75	20.63		
1.4	64QAM	3	1	20.94	20.77	20.65		
1.4	64QAM	3	3	20.90	20.77	20.58		
1.4	64QAM	6	0	19.60	19.53	19.40	20.3	2
1.4	256QAM	1	0	17.35	17.41	17.37	18.8	0
1.4	256QAM	1	3	17.38	17.38	17.39		
1.4	256QAM	1	5	17.40	17.38	17.42		
1.4	256QAM	3	0	17.32	17.42	17.32		
1.4	256QAM	3	1	17.34	17.32	17.35		
1.4	256QAM	3	3	17.36	17.40	17.33		
1.4	256QAM	6	0	17.37	17.33	17.38	18.8	0



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710			16.3	0
Frequency (MHz)				2310				
10	QPSK	1	0		15.66		16.3	0
10	QPSK	1	25		15.58			
10	QPSK	1	49		15.50			
10	QPSK	25	0		15.61		16.3	0
10	QPSK	25	12		15.65			
10	QPSK	25	25		15.54			
10	QPSK	50	0		15.60		16.3	0
10	16QAM	1	0		15.59			
10	16QAM	1	25		15.59			
10	16QAM	1	49		15.50		16.3	0
10	16QAM	25	0		15.62			
10	16QAM	25	12		15.57			
10	16QAM	25	25		15.52		16.3	0
10	16QAM	50	0		15.61			
10	64QAM	1	0		15.59		16.3	0
10	64QAM	1	25		15.57			
10	64QAM	1	49		15.58			
10	64QAM	25	0		15.63		16.3	0
10	64QAM	25	12		15.60			
10	64QAM	25	25		15.57			
10	64QAM	50	0		15.61		16.3	0
10	256QAM	1	0		15.57			
10	256QAM	1	25		15.56			
10	256QAM	1	49		15.58		16.3	0
10	256QAM	25	0		15.56			
10	256QAM	25	12		15.57			
10	256QAM	25	25		15.51		16.3	0
10	256QAM	50	0		15.57			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	16.3	0
5	QPSK	1	0	15.61	15.55	15.56		
5	QPSK	1	12	15.60	15.65	15.61		
5	QPSK	1	24	15.59	15.48	15.53	16.3	0
5	QPSK	12	0	15.64	15.62	15.64		
5	QPSK	12	7	15.62	15.61	15.60		
5	QPSK	12	13	15.63	15.65	15.63	16.3	0
5	QPSK	25	0	15.61	15.65	15.62		
5	16QAM	1	0	15.46	15.44	15.48		
5	16QAM	1	12	15.51	15.41	15.42	16.3	0
5	16QAM	1	24	15.33	15.32	15.38		
5	16QAM	12	0	15.51	15.58	15.50		
5	16QAM	12	7	15.55	15.49	15.53	16.3	0
5	16QAM	12	13	15.43	15.48	15.46		
5	16QAM	25	0	15.57	15.56	15.54		
5	64QAM	1	0	15.41	15.58	15.46	16.3	0
5	64QAM	1	12	15.47	15.53	15.41		
5	64QAM	1	24	15.49	15.57	15.57		
5	64QAM	12	0	15.53	15.61	15.44	16.3	0
5	64QAM	12	7	15.47	15.42	15.49		
5	64QAM	12	13	15.41	15.55	15.40		
5	64QAM	25	0	15.57	15.45	15.60		



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5	256QAM	1	0	15.60	15.49	15.50	16.3	0
5	256QAM	1	12	15.56	15.51	15.47		
5	256QAM	1	24	15.51	15.51	15.56		
5	256QAM	12	0	15.60	15.52	15.54	16.3	0
5	256QAM	12	7	15.58	15.55	15.56		
5	256QAM	12	13	15.61	15.52	15.53		
5	256QAM	25	0	15.53	15.48	15.47		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	20.61	20.75	20.73	22	0
20	QPSK	1	49	20.60	20.57	20.59		
20	QPSK	1	99	20.28	20.41	20.38		
20	QPSK	50	0	19.65	19.69	19.81	21	1
20	QPSK	50	24	19.72	19.84	19.83		
20	QPSK	50	50	19.58	19.67	19.61		
20	QPSK	100	0	19.55	19.86	19.84	21	1
20	16QAM	1	0	19.92	19.80	20.27		
20	16QAM	1	49	20.20	20.19	20.10		
20	16QAM	1	99	19.65	19.72	20.07	20	2
20	16QAM	50	0	18.56	18.66	18.68		
20	16QAM	50	24	18.73	18.55	18.77		
20	16QAM	50	50	18.49	18.56	18.75	20	2
20	16QAM	100	0	18.62	18.60	18.80		
20	64QAM	1	0	18.58	18.69	18.96		
20	64QAM	1	49	18.83	19.00	18.93	20	2
20	64QAM	1	99	18.57	18.68	18.87		
20	64QAM	50	0	17.75	17.87	17.78		
20	64QAM	50	24	17.85	17.86	17.75	19	3
20	64QAM	50	50	17.69	17.82	17.74		
20	64QAM	100	0	17.77	17.85	17.77		
20	256QAM	1	0	15.55	15.66	15.68	17	2
20	256QAM	1	49	15.51	15.74	15.68		
20	256QAM	1	99	15.61	15.65	15.73		
20	256QAM	50	0	15.58	15.65	15.68	17	3
20	256QAM	50	24	15.60	15.65	15.64		
20	256QAM	50	50	15.61	15.75	15.64		
20	256QAM	100	0	15.57	15.66	15.73		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	20.43	20.43	20.60	22	0
15	QPSK	1	37	20.57	20.51	20.66		
15	QPSK	1	74	20.25	20.37	20.55		
15	QPSK	36	0	19.69	19.68	19.75	21	1
15	QPSK	36	20	19.61	19.69	19.82		
15	QPSK	36	39	19.58	19.58	19.73		
15	QPSK	75	0	19.67	19.68	19.78	21	1
15	16QAM	1	0	19.78	19.85	20.09		
15	16QAM	1	37	19.77	19.77	19.81		
15	16QAM	1	74	19.67	19.64	19.97	20	2
15	16QAM	36	0	18.56	18.59	18.77		
15	16QAM	36	20	18.67	18.71	18.78		
15	16QAM	36	39	18.70	18.60	18.77	20	2
15	16QAM	75	0	18.70	18.59	18.80		
15	64QAM	1	0	18.77	18.90	18.95		
15	64QAM	1	37	18.90	18.94	18.92	20	2
15	64QAM	1	74	18.68	18.81	18.87		
15	64QAM	36	0	17.77	17.88	17.81		
15	64QAM	36	20	17.83	17.93	17.85	19	3
15	64QAM	36	39	17.73	17.85	17.77		
15	64QAM	75	0	17.81	17.90	17.79		



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15	256QAM	1	0	15.35	15.40	15.58	17	2
15	256QAM	1	37	15.39	15.36	15.55		
15	256QAM	1	74	15.41	15.41	15.58		
15	256QAM	36	0	15.41	15.38	15.60	17	3
15	256QAM	36	20	15.39	15.43	15.60		
15	256QAM	36	39	15.41	15.41	15.57		
15	256QAM	75	0	15.38	15.41	15.58	Tune-up limit (dBm)	MPR (dB)
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	20.07	20.07	20.19	22	0
10	QPSK	1	25	20.31	20.30	20.36		
10	QPSK	1	49	20.06	20.04	20.08		
10	QPSK	25	0	19.39	19.36	19.50	21	1
10	QPSK	25	12	19.51	19.44	19.64		
10	QPSK	25	25	19.33	19.31	19.32		
10	QPSK	50	0	19.38	19.38	19.54	21	1
10	16QAM	1	0	19.71	19.83	19.77		
10	16QAM	1	25	19.91	19.94	20.15		
10	16QAM	1	49	19.73	19.75	19.87	20	2
10	16QAM	25	0	18.32	18.38	18.37		
10	16QAM	25	12	18.42	18.50	18.65		
10	16QAM	25	25	18.37	18.44	18.53	20	2
10	16QAM	50	0	18.52	18.41	18.52		
10	64QAM	1	0	18.43	18.58	18.48		
10	64QAM	1	25	18.81	18.94	18.72	20	2
10	64QAM	1	49	18.52	18.65	18.51		
10	64QAM	25	0	17.51	17.59	17.42		
10	64QAM	25	12	17.64	17.72	17.61	19	3
10	64QAM	25	25	17.53	17.61	17.50		
10	64QAM	50	0	17.55	17.65	17.54		
10	256QAM	1	0	15.07	15.08	15.11	17	2
10	256QAM	1	25	15.03	15.05	15.18		
10	256QAM	1	49	15.06	15.05	15.15		
10	256QAM	25	0	15.04	15.04	15.15	17	3
10	256QAM	25	12	15.06	15.02	15.16		
10	256QAM	25	25	15.04	15.03	15.19		
10	256QAM	50	0	15.07	15.02	15.10	Tune-up limit (dBm)	MPR (dB)
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	20.19	20.22	20.47	22	0
5	QPSK	1	12	20.32	20.43	20.56		
5	QPSK	1	24	20.29	20.39	20.44		
5	QPSK	12	0	19.48	19.39	19.56	21	1
5	QPSK	12	7	19.45	19.48	19.64		
5	QPSK	12	13	19.46	19.34	19.58		
5	QPSK	25	0	19.48	19.47	19.63	21	1
5	16QAM	1	0	19.38	19.40	19.48		
5	16QAM	1	12	19.46	19.49	19.44		
5	16QAM	1	24	19.42	19.43	19.45	20	2
5	16QAM	12	0	18.41	18.39	18.66		
5	16QAM	12	7	18.45	18.50	18.71		
5	16QAM	12	13	18.40	18.36	18.58	20	2
5	16QAM	25	0	18.54	18.43	18.55		
5	64QAM	1	0	18.64	18.83	18.68		
5	64QAM	1	12	18.71	18.79	18.64	20	2
5	64QAM	1	24	18.60	18.74	18.53		



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5	64QAM	12	0	17.63	17.71	17.60	19	3
5	64QAM	12	7	17.68	17.78	17.61		
5	64QAM	12	13	17.58	17.66	17.55		
5	64QAM	25	0	17.62	17.71	17.53		
5	256QAM	1	0	15.15	15.16	15.37	17	2
5	256QAM	1	12	15.14	15.19	15.47		
5	256QAM	1	24	15.13	15.12	15.38		
5	256QAM	12	0	15.14	15.14	15.44		
5	256QAM	12	7	15.10	15.14	15.37	17	3
5	256QAM	12	13	15.15	15.14	15.39		
5	256QAM	25	0	15.11	15.13	15.38		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	20.44	20.45	20.48	22	0
3	QPSK	1	8	20.45	20.41	20.54		
3	QPSK	1	14	20.32	20.31	20.50		
3	QPSK	8	0	19.50	19.39	19.57	21	1
3	QPSK	8	4	19.51	19.48	19.55		
3	QPSK	8	7	19.42	19.39	19.50		
3	QPSK	15	0	19.45	19.51	19.48		
3	16QAM	1	0	19.50	19.92	20.10	21	1
3	16QAM	1	8	19.57	19.95	20.08		
3	16QAM	1	14	19.46	19.46	19.94		
3	16QAM	8	0	18.64	18.54	18.68	20	2
3	16QAM	8	4	18.65	18.54	18.68		
3	16QAM	8	7	18.58	18.45	18.62		
3	16QAM	15	0	18.64	18.48	18.56		
3	64QAM	1	0	18.72	18.86	18.73	20	2
3	64QAM	1	8	18.82	18.89	18.74		
3	64QAM	1	14	18.67	18.77	18.59		
3	64QAM	8	0	17.72	17.70	17.56	19	3
3	64QAM	8	4	17.68	17.74	17.56		
3	64QAM	8	7	17.62	17.68	17.55		
3	64QAM	15	0	17.64	17.68	17.50		
3	256QAM	1	0	15.44	15.43	15.42	17	2
3	256QAM	1	8	15.43	15.45	15.48		
3	256QAM	1	14	15.39	15.37	15.45		
3	256QAM	8	0	15.43	15.41	15.41	17	3
3	256QAM	8	4	15.42	15.44	15.45		
3	256QAM	8	7	15.40	15.35	15.39		
3	256QAM	15	0	15.39	15.39	15.41		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	20.25	20.33	20.43	22	0
1.4	QPSK	1	3	20.36	20.36	20.52		
1.4	QPSK	1	5	20.26	20.29	20.41		
1.4	QPSK	3	0	20.27	20.39	20.44		
1.4	QPSK	3	1	20.35	20.36	20.45		
1.4	QPSK	3	3	20.29	20.35	20.45	21	1
1.4	QPSK	6	0	19.43	19.42	19.46		
1.4	16QAM	1	0	19.62	19.61	19.68	21	1
1.4	16QAM	1	3	19.69	19.67	19.81		
1.4	16QAM	1	5	19.59	19.59	19.71		
1.4	16QAM	3	0	19.36	19.44	19.50		
1.4	16QAM	3	1	19.44	19.49	19.55		
1.4	16QAM	3	3	19.40	19.42	19.51		



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1.4	16QAM	6	0	18.50	18.47	18.52	20	2
1.4	64QAM	1	0	18.62	18.86	18.65	20	2
1.4	64QAM	1	3	18.73	18.87	18.68		
1.4	64QAM	1	5	18.63	18.79	18.66		
1.4	64QAM	3	0	18.54	18.73	18.55		
1.4	64QAM	3	1	18.65	18.78	18.59		
1.4	64QAM	3	3	18.62	18.70	18.58		
1.4	64QAM	6	0	17.55	17.64	17.46	19	3
1.4	256QAM	1	0	15.24	15.33	15.36	17	0
1.4	256QAM	1	3	15.21	15.30	15.37		
1.4	256QAM	1	5	15.25	15.26	15.41		
1.4	256QAM	3	0	15.19	15.33	15.34		
1.4	256QAM	3	1	15.18	15.25	15.39		
1.4	256QAM	3	3	15.20	15.23	15.33		
1.4	256QAM	6	0	15.19	15.29	15.33	17	0



LAT Reduced Power Mode for Hotspot On

<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	17.44	17.55	17.51	18.3	0
20	QPSK	1	49	17.34	17.41	17.44		
20	QPSK	1	99	17.30	17.32	17.37		
20	QPSK	50	0	17.35	17.41	17.46	18.3	0
20	QPSK	50	24	17.51	17.52	17.51		
20	QPSK	50	50	17.45	17.51	17.50		
20	QPSK	100	0	17.43	17.46	17.45	18.3	0
20	16QAM	1	0	17.38	17.30	17.34		
20	16QAM	1	49	17.50	17.30	17.48		
20	16QAM	1	99	17.42	17.48	17.36	18.3	0
20	16QAM	50	0	17.37	17.45	17.47		
20	16QAM	50	24	17.53	17.52	17.50		
20	16QAM	50	50	17.48	17.54	17.47	18.3	0
20	16QAM	100	0	17.44	17.44	17.54		
20	64QAM	1	0	17.41	17.48	17.43		
20	64QAM	1	49	17.51	17.36	17.32	18.3	0
20	64QAM	1	99	17.49	17.41	17.46		
20	64QAM	50	0	17.40	17.46	17.49		
20	64QAM	50	24	17.46	17.54	17.35	18.3	0
20	64QAM	50	50	17.49	17.48	17.49		
20	64QAM	100	0	17.47	17.46	17.47		
20	256QAM	1	0	17.32	17.42	17.22	18.3	0
20	256QAM	1	49	17.05	17.40	17.16		
20	256QAM	1	99	17.26	17.25	17.32		
20	256QAM	50	0	17.18	17.16	17.19	18.3	0
20	256QAM	50	24	17.32	17.28	17.41		
20	256QAM	50	50	17.20	17.36	17.40		
20	256QAM	100	0	17.38	17.38	17.43		
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.32	17.44	17.46	18.3	0
15	QPSK	1	37	17.33	17.33	17.42		
15	QPSK	1	74	17.25	17.34	17.41		
15	QPSK	36	0	17.41	17.40	17.44	18.3	0
15	QPSK	36	20	17.45	17.51	17.52		
15	QPSK	36	39	17.45	17.53	17.48		
15	QPSK	75	0	17.46	17.47	17.47	18.3	0
15	16QAM	1	0	17.48	17.47	17.47		
15	16QAM	1	37	17.35	17.35	17.34		
15	16QAM	1	74	17.47	17.54	17.47	18.3	0
15	16QAM	36	0	17.33	17.46	17.53		
15	16QAM	36	20	17.54	17.51	17.42		
15	16QAM	36	39	17.53	17.46	17.35	18.3	0
15	16QAM	75	0	17.46	17.50	17.48		
15	64QAM	1	0	17.32	17.53	17.46		
15	64QAM	1	37	17.46	17.34	17.43	18.3	0
15	64QAM	1	74	17.32	17.54	17.35		
15	64QAM	36	0	17.51	17.47	17.47		
15	64QAM	36	20	17.42	17.46	17.53	18.3	0
15	64QAM	36	39	17.54	17.54	17.48		



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15	64QAM	75	0	17.47	17.46	17.51		
15	256QAM	1	0	17.24	17.34	17.18	18.3	0
15	256QAM	1	37	16.96	17.35	17.07		
15	256QAM	1	74	17.24	17.25	17.23		
15	256QAM	36	0	17.15	17.08	17.16	18.3	0
15	256QAM	36	20	17.32	17.20	17.36		
15	256QAM	36	39	17.15	17.28	17.36		
15	256QAM	75	0	17.37	17.28	17.38		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.46	17.28	17.38	18.3	0
10	QPSK	1	25	17.42	17.28	17.39		
10	QPSK	1	49	17.41	17.28	17.19		
10	QPSK	25	0	17.44	17.24	17.34	18.3	0
10	QPSK	25	12	17.52	17.34	17.43		
10	QPSK	25	25	17.48	17.34	17.38		
10	QPSK	50	0	17.47	17.26	17.35		
10	16QAM	1	0	17.47	17.32	17.47	18.3	0
10	16QAM	1	25	17.34	17.46	17.53		
10	16QAM	1	49	17.47	17.40	17.47		
10	16QAM	25	0	17.53	17.24	17.25	18.3	0
10	16QAM	25	12	17.42	17.38	17.41		
10	16QAM	25	25	17.35	17.28	17.32		
10	16QAM	50	0	17.48	17.17	17.40		
10	64QAM	1	0	17.46	17.11	17.48	18.3	0
10	64QAM	1	25	17.43	17.44	17.48		
10	64QAM	1	49	17.35	17.16	17.43		
10	64QAM	25	0	17.47	17.34	17.26	18.3	0
10	64QAM	25	12	17.53	17.46	17.41		
10	64QAM	25	25	17.48	17.38	17.24		
10	64QAM	50	0	17.51	17.17	17.39		
10	256QAM	1	0	17.17	17.32	17.08	18.3	0
10	256QAM	1	25	16.89	17.28	17.04		
10	256QAM	1	49	17.23	17.20	17.16		
10	256QAM	25	0	17.10	16.98	17.11	18.3	0
10	256QAM	25	12	17.22	17.12	17.31		
10	256QAM	25	25	17.15	17.23	17.27		
10	256QAM	50	0	17.29	17.21	17.29		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.25	17.28	17.31	18.3	0
5	QPSK	1	12	17.45	17.31	17.38		
5	QPSK	1	24	17.19	17.17	17.19		
5	QPSK	12	0	17.27	17.37	17.41	18.3	0
5	QPSK	12	7	17.37	17.34	17.46		
5	QPSK	12	13	17.16	17.35	17.40		
5	QPSK	25	0	17.30	17.36	17.39		
5	16QAM	1	0	17.40	17.35	17.35	18.3	0
5	16QAM	1	12	17.40	17.37	17.44		
5	16QAM	1	24	17.31	17.38	17.38		
5	16QAM	12	0	17.46	17.43	17.40	18.3	0
5	16QAM	12	7	17.43	17.41	17.52		
5	16QAM	12	13	17.34	17.37	17.38		
5	16QAM	25	0	17.43	17.29	17.39		
5	64QAM	1	0	17.48	17.46	17.41	18.3	0
5	64QAM	1	12	17.47	17.50	17.37		



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5	64QAM	1	24	17.52	17.45	17.44		
5	64QAM	12	0	17.36	17.47	17.45	18.3	0
5	64QAM	12	7	17.48	17.47	17.45		
5	64QAM	12	13	17.37	17.39	17.36		
5	64QAM	25	0	17.41	17.39	17.39		
5	256QAM	1	0	17.08	17.29	17.08	18.3	0
5	256QAM	1	12	16.84	17.20	16.97		
5	256QAM	1	24	17.19	17.13	17.16		
5	256QAM	12	0	17.02	16.88	17.02	18.3	0
5	256QAM	12	7	17.12	17.11	17.30		
5	256QAM	12	13	17.15	17.22	17.21		
5	256QAM	25	0	17.27	17.21	17.28		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	17.23	17.41	17.36	18.3	0
3	QPSK	1	8	17.15	17.39	17.33		
3	QPSK	1	14	17.06	17.26	17.26		
3	QPSK	8	0	17.39	17.41	17.47	18.3	0
3	QPSK	8	4	17.39	17.44	17.40		
3	QPSK	8	7	17.18	17.34	17.32		
3	QPSK	15	0	17.35	17.36	17.38		
3	16QAM	1	0	17.50	17.47	17.37	18.3	0
3	16QAM	1	8	17.45	17.49	17.32		
3	16QAM	1	14	17.43	17.40	17.22		
3	16QAM	8	0	17.44	17.41	17.44	18.3	0
3	16QAM	8	4	17.41	17.53	17.52		
3	16QAM	8	7	17.33	17.38	17.54		
3	16QAM	15	0	17.30	17.29	17.43		
3	64QAM	1	0	17.33	17.35	17.50	18.3	0
3	64QAM	1	8	17.37	17.39	17.36		
3	64QAM	1	14	17.54	17.40	17.35		
3	64QAM	8	0	17.49	17.47	17.53	18.3	0
3	64QAM	8	4	17.46	17.50	17.43		
3	64QAM	8	7	17.41	17.45	17.39		
3	64QAM	15	0	17.35	17.42	17.49		
3	256QAM	1	0	17.00	17.19	17.04	18.3	0
3	256QAM	1	8	16.75	17.15	16.89		
3	256QAM	1	14	17.18	17.08	17.06		
3	256QAM	8	0	17.00	16.84	16.98	18.3	0
3	256QAM	8	4	17.08	17.04	17.22		
3	256QAM	8	7	17.10	17.16	17.18		
3	256QAM	15	0	17.25	17.17	17.26		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	17.12	17.29	17.18	18.3	0
1.4	QPSK	1	3	17.22	17.20	17.33		
1.4	QPSK	1	5	17.30	17.22	17.20		
1.4	QPSK	3	0	17.23	17.21	17.31		
1.4	QPSK	3	1	17.20	17.29	17.28		
1.4	QPSK	3	3	17.22	17.20	17.18		
1.4	QPSK	6	0	17.20	17.34	17.30	18.3	0
1.4	16QAM	1	0	17.33	17.39	17.47	18.3	0
1.4	16QAM	1	3	17.46	17.42	17.35		
1.4	16QAM	1	5	17.34	17.47	17.36		
1.4	16QAM	3	0	17.32	17.34	17.35		
1.4	16QAM	3	1	17.34	17.39	17.41		



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1.4	16QAM	3	3	17.30	17.26	17.24		
1.4	16QAM	6	0	17.31	17.47	17.51	18.3	0
1.4	64QAM	1	0	17.44	17.54	17.35	18.3	0
1.4	64QAM	1	3	17.54	17.46	17.37		
1.4	64QAM	1	5	17.40	17.47	17.51		
1.4	64QAM	3	0	17.47	17.50	17.54		
1.4	64QAM	3	1	17.54	17.43	17.51		
1.4	64QAM	3	3	17.50	17.51	17.51		
1.4	64QAM	6	0	17.24	17.42	17.34	18.3	0
1.4	256QAM	1	0	16.97	17.09	17.03	18.3	0
1.4	256QAM	1	3	16.73	17.11	16.83		
1.4	256QAM	1	5	17.09	17.04	17.06		
1.4	256QAM	3	0	16.94	16.81	16.92		
1.4	256QAM	3	1	17.06	16.95	17.13		
1.4	256QAM	3	3	17.10	17.09	17.12		
1.4	256QAM	6	0	17.24	17.14	17.26	18.3	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	20.8	0
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	19.61	19.75	19.72		
20	QPSK	1	49	19.60	19.70	19.69	20.8	0
20	QPSK	1	99	19.37	19.39	19.39		
20	QPSK	50	0	19.63	19.67	19.65		
20	QPSK	50	24	19.67	19.70	19.69	20.8	0
20	QPSK	50	50	19.65	19.68	19.67		
20	QPSK	100	0	19.67	19.68	19.67		
20	16QAM	1	0	19.69	19.72	19.66	20.8	0
20	16QAM	1	49	19.74	19.74	19.66		
20	16QAM	1	99	19.65	19.67	19.73		
20	16QAM	50	0	19.61	19.74	19.66	20.8	0
20	16QAM	50	24	19.69	19.69	19.70		
20	16QAM	50	50	19.69	19.67	19.68		
20	16QAM	100	0	19.66	19.67	19.70	20.8	0
20	64QAM	1	0	19.20	19.25	19.49		
20	64QAM	1	49	19.42	19.56	19.56		
20	64QAM	1	99	19.38	19.39	19.49	20.8	0
20	64QAM	50	0	19.29	19.45	19.48		
20	64QAM	50	24	19.42	19.54	19.59		
20	64QAM	50	50	19.36	19.50	19.50	20.8	0
20	64QAM	100	0	19.36	19.44	19.54		
20	256QAM	1	0	17.41	17.55	17.52	18.8	0
20	256QAM	1	49	17.40	17.50	17.49		
20	256QAM	1	99	17.17	17.19	17.19		
20	256QAM	50	0	17.43	17.47	17.45	18.8	0
20	256QAM	50	24	17.47	17.50	17.49		
20	256QAM	50	50	17.45	17.48	17.47		
20	256QAM	100	0	17.47	17.48	17.47	20.8	0
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	19.31	19.50	19.57	20.8	0
15	QPSK	1	37	19.45	19.64	19.65		
15	QPSK	1	74	19.37	19.52	19.53		
15	QPSK	36	0	19.08	19.28	19.27	20.8	0
15	QPSK	36	20	19.24	19.32	19.33		
15	QPSK	36	39	19.17	19.35	19.33		
15	QPSK	75	0	19.16	19.26	19.25	20.8	0
15	16QAM	1	0	19.25	19.46	19.53		
15	16QAM	1	37	19.43	19.60	19.65		
15	16QAM	1	74	19.35	19.43	19.47	20.8	0
15	16QAM	36	0	19.10	19.30	19.32		
15	16QAM	36	20	19.24	19.36	19.38		
15	16QAM	36	39	19.19	19.36	19.33	20.8	0
15	16QAM	75	0	19.19	19.30	19.30		
15	64QAM	1	0	19.25	19.33	19.38		
15	64QAM	1	37	19.37	19.52	19.54	20.8	0
15	64QAM	1	74	19.42	19.30	19.45		
15	64QAM	36	0	19.10	19.28	19.30		
15	64QAM	36	20	19.25	19.35	19.34	20.8	0
15	64QAM	36	39	19.18	19.36	19.35		
15	64QAM	75	0	19.21	19.27	19.30		



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15	256QAM	1	0	17.37	17.46	17.42	18.8	0
15	256QAM	1	37	17.31	17.45	17.42		
15	256QAM	1	74	17.12	17.12	17.17		
15	256QAM	36	0	17.43	17.37	17.40	18.8	0
15	256QAM	36	20	17.47	17.41	17.39		
15	256QAM	36	39	17.45	17.38	17.38		
15	256QAM	75	0	17.47	17.48	17.45	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	19.25	19.36	19.34	20.8	0
10	QPSK	1	25	19.43	19.64	19.58		
10	QPSK	1	49	19.22	19.32	19.30		
10	QPSK	25	0	19.41	19.60	19.58	20.8	0
10	QPSK	25	12	19.56	19.66	19.70		
10	QPSK	25	25	19.45	19.63	19.57		
10	QPSK	50	0	19.45	19.56	19.63	20.8	0
10	16QAM	1	0	19.17	19.23	19.29		
10	16QAM	1	25	19.38	19.09	19.52		
10	16QAM	1	49	19.18	19.29	19.26	20.8	0
10	16QAM	25	0	18.99	19.22	19.20		
10	16QAM	25	12	19.17	19.27	19.32		
10	16QAM	25	25	19.02	19.20	19.18	20.8	0
10	16QAM	50	0	19.06	19.19	19.25		
10	64QAM	1	0	19.05	19.20	19.31		
10	64QAM	1	25	19.47	19.01	19.05	20.8	0
10	64QAM	1	49	19.07	19.23	19.34		
10	64QAM	25	0	19.00	19.19	19.17		
10	64QAM	25	12	19.16	19.31	19.35	20.8	0
10	64QAM	25	25	19.00	19.21	19.17		
10	64QAM	50	0	19.05	19.18	19.22		
10	256QAM	1	0	17.35	17.45	17.40	18.8	0
10	256QAM	1	25	17.21	17.42	17.40		
10	256QAM	1	49	17.05	17.09	17.10		
10	256QAM	25	0	17.42	17.31	17.30	18.8	0
10	256QAM	25	12	17.45	17.35	17.32		
10	256QAM	25	25	17.43	17.31	17.38		
10	256QAM	50	0	17.42	17.42	17.38	Tune-up limit (dBm)	MPR (dB)
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	19.38	19.56	19.51	20.8	0
5	QPSK	1	12	19.45	19.65	19.59		
5	QPSK	1	24	19.35	19.49	19.47		
5	QPSK	12	0	19.52	19.69	19.67	20.8	0
5	QPSK	12	7	19.55	19.72	19.65		
5	QPSK	12	13	19.48	19.70	19.60		
5	QPSK	25	0	19.47	19.61	19.57	20.8	0
5	16QAM	1	0	19.29	19.46	19.41		
5	16QAM	1	12	19.36	19.55	19.42		
5	16QAM	1	24	19.26	19.48	19.34	20.8	0
5	16QAM	12	0	19.16	19.29	19.26		
5	16QAM	12	7	19.16	19.34	19.26		
5	16QAM	12	13	19.10	19.32	19.24	20.8	0
5	16QAM	25	0	19.11	19.26	19.20		
5	64QAM	1	0	19.24	19.41	19.34		
5	64QAM	1	12	19.24	19.55	19.31	20.8	0
5	64QAM	1	24	19.15	19.36	19.27		



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5	64QAM	12	0	19.12	19.28	19.24	20.8	0
5	64QAM	12	7	19.13	19.32	19.25		
5	64QAM	12	13	19.08	19.29	19.22		
5	64QAM	25	0	19.09	19.29	19.22		
5	256QAM	1	0	17.26	17.35	17.34	18.8	0
5	256QAM	1	12	17.13	17.33	17.32		
5	256QAM	1	24	16.96	17.07	17.00		
5	256QAM	12	0	17.33	17.30	17.25	18.8	0
5	256QAM	12	7	17.40	17.30	17.29		
5	256QAM	12	13	17.39	17.23	17.32		
5	256QAM	25	0	17.36	17.34	17.36		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	19.30	19.47	19.49	20.8	0
3	QPSK	1	8	19.36	19.55	19.50		
3	QPSK	1	14	19.24	19.48	19.41		
3	QPSK	8	0	19.40	19.54	19.58	20.8	0
3	QPSK	8	4	19.41	19.60	19.58		
3	QPSK	8	7	19.38	19.54	19.51		
3	QPSK	15	0	19.37	19.51	19.54		
3	16QAM	1	0	19.63	19.70	19.68	20.8	0
3	16QAM	1	8	19.64	19.67	19.73		
3	16QAM	1	14	19.55	19.71	19.66		
3	16QAM	8	0	19.45	19.63	19.62	20.8	0
3	16QAM	8	4	19.48	19.66	19.64		
3	16QAM	8	7	19.41	19.63	19.58		
3	16QAM	15	0	19.41	19.59	19.59		
3	64QAM	1	0	19.57	19.71	19.73	20.8	0
3	64QAM	1	8	19.55	19.72	19.72		
3	64QAM	1	14	19.44	19.73	19.59		
3	64QAM	8	0	19.48	19.62	19.61	20.8	0
3	64QAM	8	4	19.49	19.67	19.64		
3	64QAM	8	7	19.43	19.66	19.59		
3	64QAM	15	0	19.42	19.56	19.58		
3	256QAM	1	0	17.24	17.34	17.33	18.8	0
3	256QAM	1	8	17.07	17.30	17.30		
3	256QAM	1	14	16.86	17.02	16.98		
3	256QAM	8	0	17.33	17.25	17.18	18.8	0
3	256QAM	8	4	17.37	17.26	17.23		
3	256QAM	8	7	17.39	17.19	17.27		
3	256QAM	15	0	17.26	17.33	17.32		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.19	19.38	19.37	20.8	0
1.4	QPSK	1	3	19.23	19.49	19.42		
1.4	QPSK	1	5	19.14	19.38	19.35		
1.4	QPSK	3	0	19.22	19.39	19.38		
1.4	QPSK	3	1	19.23	19.49	19.41		
1.4	QPSK	3	3	19.19	19.44	19.38	20.8	0
1.4	QPSK	6	0	19.31	19.45	19.45		
1.4	16QAM	1	0	19.53	19.69	19.64	20.8	0
1.4	16QAM	1	3	19.60	19.73	19.65		
1.4	16QAM	1	5	19.48	19.65	19.61		
1.4	16QAM	3	0	19.30	19.49	19.45		
1.4	16QAM	3	1	19.32	19.62	19.53		
1.4	16QAM	3	3	19.27	19.52	19.44		



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1.4	16QAM	6	0	19.36	19.56	19.53	20.8	0
1.4	64QAM	1	0	19.42	19.62	19.62	20.8	0
1.4	64QAM	1	3	19.47	19.73	19.66		
1.4	64QAM	1	5	19.37	19.64	19.55		
1.4	64QAM	3	0	19.44	19.61	19.57		
1.4	64QAM	3	1	19.46	19.69	19.60		
1.4	64QAM	3	3	19.41	19.63	19.54		
1.4	64QAM	6	0	19.28	19.45	19.46	20.8	0
1.4	256QAM	1	0	17.21	17.31	17.28	18.8	0
1.4	256QAM	1	3	17.07	17.28	17.26		
1.4	256QAM	1	5	16.85	16.98	16.94		
1.4	256QAM	3	0	17.27	17.20	17.14		
1.4	256QAM	3	1	17.30	17.20	17.19		
1.4	256QAM	3	3	17.29	17.17	17.27		
1.4	256QAM	6	0	17.20	17.30	17.23	18.8	0



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.89	22.91	22.91	23.8	0
10	QPSK	1	25	22.92	22.89	22.93		
10	QPSK	1	49	22.97	22.84	22.95		
10	QPSK	25	0	21.91	21.92	21.95	22.8	1
10	QPSK	25	12	21.99	21.91	21.96		
10	QPSK	25	25	21.95	21.87	21.96		
10	QPSK	50	0	21.92	21.84	21.90	22.8	1
10	16QAM	1	0	22.25	21.90	21.89		
10	16QAM	1	25	22.11	22.01	21.87		
10	16QAM	1	49	22.17	22.05	22.39	21.8	2
10	16QAM	25	0	20.93	20.97	20.93		
10	16QAM	25	12	21.02	20.82	20.95		
10	16QAM	25	25	20.95	20.97	20.96	21.8	2
10	16QAM	50	0	20.92	20.76	20.82		
10	64QAM	1	0	21.01	20.99	20.93		
10	64QAM	1	25	21.03	21.04	20.97	21.8	2
10	64QAM	1	49	20.70	20.96	20.95		
10	64QAM	25	0	19.76	19.78	19.83	20.8	3
10	64QAM	25	12	19.84	19.82	19.86		
10	64QAM	25	25	19.80	19.85	19.84		
10	64QAM	50	0	19.76	19.75	19.72	20.8	2
10	256QAM	1	0	21.01	20.99	20.93		
10	256QAM	1	25	21.03	21.04	20.97		
10	256QAM	1	49	20.70	20.96	20.95	19.8	3
10	256QAM	25	0	19.76	19.78	19.83		
10	256QAM	25	12	19.84	19.82	19.86		
10	256QAM	25	25	19.80	19.85	19.84	19.8	3
10	256QAM	50	0	19.76	19.75	19.72		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.75	22.81	22.72	23.8	0
5	QPSK	1	12	22.93	22.87	22.93		
5	QPSK	1	24	22.79	22.78	22.84		
5	QPSK	12	0	21.94	21.87	21.87	22.8	1
5	QPSK	12	7	22.02	21.96	21.86		
5	QPSK	12	13	21.95	22.00	21.90		
5	QPSK	25	0	21.97	21.96	21.88	22.8	1
5	16QAM	1	0	22.10	21.92	22.03		
5	16QAM	1	12	22.09	21.95	21.91		
5	16QAM	1	24	22.43	22.07	21.84	21.8	2
5	16QAM	12	0	20.99	20.89	20.91		
5	16QAM	12	7	21.05	21.02	20.92		
5	16QAM	12	13	20.94	21.03	20.93	21.8	2
5	16QAM	25	0	20.89	20.92	20.93		
5	64QAM	1	0	20.96	20.92	20.93		
5	64QAM	1	12	20.96	20.99	21.03	21.8	2
5	64QAM	1	24	20.98	20.95	20.89		
5	64QAM	12	0	19.80	19.80	19.83		
5	64QAM	12	7	19.89	19.93	19.89	20.8	3
5	64QAM	12	13	19.81	19.89	19.89		
5	64QAM	25	0	19.81	19.78	19.81		



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5	256QAM	1	0	20.96	20.92	20.93	20.8	2
5	256QAM	1	12	20.96	20.99	21.03		
5	256QAM	1	24	20.98	20.95	20.89		
5	256QAM	12	0	19.80	19.80	19.83	19.8	3
5	256QAM	12	7	19.89	19.93	19.89		
5	256QAM	12	13	19.81	19.89	19.89		
5	256QAM	25	0	19.81	19.78	19.81	Tune-up limit (dBm)	MPR (dB)
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.94	22.90	22.96	23.8	0
3	QPSK	1	8	22.96	22.96	22.95		
3	QPSK	1	14	22.93	22.95	22.78		
3	QPSK	8	0	21.88	21.90	21.99	22.8	1
3	QPSK	8	4	22.03	21.99	21.97		
3	QPSK	8	7	21.90	21.95	21.98		
3	QPSK	15	0	21.97	21.90	21.93	22.8	1
3	16QAM	1	0	21.91	22.00	22.08		
3	16QAM	1	8	21.92	22.18	22.11		
3	16QAM	1	14	21.82	22.11	22.02	21.8	2
3	16QAM	8	0	21.05	21.05	21.13		
3	16QAM	8	4	21.23	21.20	21.06		
3	16QAM	8	7	21.12	21.12	21.04	21.8	2
3	16QAM	15	0	21.07	21.10	20.99		
3	64QAM	1	0	20.91	20.94	20.98	21.8	2
3	64QAM	1	8	21.04	21.05	21.02		
3	64QAM	1	14	21.03	20.98	20.87		
3	64QAM	8	0	19.81	19.81	19.87	20.8	3
3	64QAM	8	4	19.89	19.92	19.91		
3	64QAM	8	7	19.84	19.86	19.87		
3	64QAM	15	0	19.84	19.78	19.86	20.8	2
3	256QAM	1	0	20.91	20.94	20.98		
3	256QAM	1	8	21.04	21.05	21.02		
3	256QAM	1	14	21.03	20.98	20.87	19.8	3
3	256QAM	8	0	19.81	19.81	19.87		
3	256QAM	8	4	19.89	19.92	19.91		
3	256QAM	8	7	19.84	19.86	19.87	19.8	3
3	256QAM	15	0	19.84	19.78	19.86		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.80	22.74	22.75	23.8	0
1.4	QPSK	1	3	22.86	22.94	22.82		
1.4	QPSK	1	5	22.79	22.81	22.70		
1.4	QPSK	3	0	22.80	22.66	22.74	22.8	1
1.4	QPSK	3	1	22.83	22.83	22.78		
1.4	QPSK	3	3	22.82	22.81	22.71		
1.4	QPSK	6	0	21.93	21.76	21.79	22.8	1
1.4	16QAM	1	0	22.37	22.12	22.15	22.8	1
1.4	16QAM	1	3	22.41	22.28	22.19		
1.4	16QAM	1	5	22.31	22.25	22.16		
1.4	16QAM	3	0	21.91	21.84	21.75	21.8	2
1.4	16QAM	3	1	21.96	21.82	21.86		
1.4	16QAM	3	3	21.92	21.75	21.76		
1.4	16QAM	6	0	20.96	21.02	21.03	21.8	2
1.4	64QAM	1	0	20.87	20.89	20.92		
1.4	64QAM	1	3	20.99	21.01	21.01		
1.4	64QAM	1	5	20.87	20.96	20.89	21.8	2



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1.4	64QAM	3	0	20.88	20.82	20.86		
1.4	64QAM	3	1	20.91	20.90	20.93		
1.4	64QAM	3	3	20.88	20.88	20.90		
1.4	64QAM	6	0	19.70	19.70	19.77	20.8	3
1.4	256QAM	1	0	20.87	20.89	20.92	22.8	0
1.4	256QAM	1	3	20.99	21.01	21.01		
1.4	256QAM	1	5	20.87	20.96	20.89		
1.4	256QAM	3	0	20.88	20.82	20.86		
1.4	256QAM	3	1	20.91	20.90	20.93		
1.4	256QAM	3	3	20.88	20.88	20.90		
1.4	256QAM	6	0	19.70	19.70	19.77	22.8	0



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	18.3	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	17.92	17.90	17.77	18.3	0
20	QPSK	1	49	17.88	17.84	17.74		
20	QPSK	1	99	17.81	17.90	17.75		
20	QPSK	50	0	17.82	17.80	17.87	18.3	0
20	QPSK	50	24	17.90	17.85	17.89		
20	QPSK	50	50	17.80	17.79	17.85		
20	QPSK	100	0	17.83	17.76	17.81	18.3	0
20	16QAM	1	0	17.77	17.84	17.73		
20	16QAM	1	49	17.77	17.86	17.75		
20	16QAM	1	99	17.85	17.85	17.75	18.3	0
20	16QAM	50	0	17.42	17.51	17.38		
20	16QAM	50	24	17.53	17.52	17.37		
20	16QAM	50	50	17.55	17.48	17.35	18.3	0
20	16QAM	100	0	17.42	17.43	17.30		
20	64QAM	1	0	17.17	17.29	17.27	18.3	0
20	64QAM	1	49	17.25	17.38	17.31		
20	64QAM	1	99	17.37	17.35	17.30		
20	64QAM	50	0	17.10	17.20	17.19	18.3	0
20	64QAM	50	24	17.12	17.25	17.22		
20	64QAM	50	50	17.05	17.25	17.22		
20	64QAM	100	0	17.01	17.17	17.12	18.3	0
20	256QAM	1	0	17.80	17.70	17.75		
20	256QAM	1	49	17.81	17.81	17.67		
20	256QAM	1	99	17.61	17.79	17.55	18.3	0
20	256QAM	50	0	17.74	17.67	17.74		
20	256QAM	50	24	17.75	17.82	17.80		
20	256QAM	50	50	17.66	17.64	17.80	18.3	0
20	256QAM	100	0	17.71	17.59	17.69		
Channel				20825	21100	21375	18.3	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	17.37	17.45	17.34	18.3	0
15	QPSK	1	37	17.41	17.47	17.32		
15	QPSK	1	74	17.48	17.54	17.39		
15	QPSK	36	0	17.55	17.53	17.47	18.3	0
15	QPSK	36	20	17.55	17.55	17.50		
15	QPSK	36	39	17.56	17.63	17.49		
15	QPSK	75	0	17.50	17.50	17.45	18.3	0
15	16QAM	1	0	17.70	17.81	17.71		
15	16QAM	1	37	17.77	17.83	17.66		
15	16QAM	1	74	17.85	17.91	17.72	18.3	0
15	16QAM	36	0	17.57	17.57	17.47		
15	16QAM	36	20	17.59	17.55	17.50		
15	16QAM	36	39	17.57	17.67	17.50	18.3	0
15	16QAM	75	0	17.52	17.54	17.47		
15	64QAM	1	0	17.62	17.84	17.70		
15	64QAM	1	37	17.70	17.74	17.59	18.3	0
15	64QAM	1	74	17.75	17.75	17.65		
15	64QAM	36	0	17.56	17.53	17.49		
15	64QAM	36	20	17.60	17.59	17.51	18.3	0
15	64QAM	36	39	17.58	17.65	17.50		
15	64QAM	75	0	17.53	17.52	17.46		



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15	256QAM	1	0	17.77	17.64	17.67	18.3	0
15	256QAM	1	37	17.75	17.76	17.57		
15	256QAM	1	74	17.59	17.72	17.55		
15	256QAM	36	0	17.72	17.63	17.74	18.3	0
15	256QAM	36	20	17.66	17.72	17.72		
15	256QAM	36	39	17.59	17.56	17.75		
15	256QAM	75	0	17.68	17.55	17.69	Tune-up limit (dBm)	MPR (dB)
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	17.19	17.31	17.16	18.3	0
10	QPSK	1	25	17.15	17.35	17.12		
10	QPSK	1	49	17.23	17.39	17.19		
10	QPSK	25	0	17.28	17.35	17.23	18.3	0
10	QPSK	25	12	17.32	17.37	17.26		
10	QPSK	25	25	17.31	17.44	17.25		
10	QPSK	50	0	17.27	17.30	17.19	18.3	0
10	16QAM	1	0	17.50	17.66	17.51		
10	16QAM	1	25	17.58	17.67	17.55		
10	16QAM	1	49	17.58	17.75	17.50	18.3	0
10	16QAM	25	0	17.28	17.37	17.23		
10	16QAM	25	12	17.34	17.39	17.28		
10	16QAM	25	25	17.33	17.46	17.25	18.3	0
10	16QAM	50	0	17.25	17.30	17.20		
10	64QAM	1	0	17.53	17.64	17.56		
10	64QAM	1	25	17.63	17.72	17.57	18.3	0
10	64QAM	1	49	17.64	17.77	17.61		
10	64QAM	25	0	17.29	17.36	17.23		
10	64QAM	25	12	17.33	17.41	17.29	18.3	0
10	64QAM	25	25	17.31	17.46	17.26		
10	64QAM	50	0	17.24	17.34	17.17		
10	256QAM	1	0	17.69	17.62	17.63	18.3	0
10	256QAM	1	25	17.72	17.76	17.52		
10	256QAM	1	49	17.49	17.64	17.46		
10	256QAM	25	0	17.62	17.53	17.66	18.3	0
10	256QAM	25	12	17.61	17.70	17.66		
10	256QAM	25	25	17.57	17.55	17.75		
10	256QAM	50	0	17.64	17.52	17.59	Tune-up limit (dBm)	MPR (dB)
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	17.22	17.28	17.15	18.3	0
5	QPSK	1	12	17.20	17.39	17.20		
5	QPSK	1	24	17.21	17.39	17.21		
5	QPSK	12	0	17.27	17.36	17.22	18.3	0
5	QPSK	12	7	17.32	17.45	17.25		
5	QPSK	12	13	17.29	17.41	17.23		
5	QPSK	25	0	17.26	17.36	17.23	18.3	0
5	16QAM	1	0	17.49	17.65	17.52		
5	16QAM	1	12	17.47	17.63	17.51		
5	16QAM	1	24	17.55	17.70	17.54	18.3	0
5	16QAM	12	0	17.30	17.40	17.29		
5	16QAM	12	7	17.38	17.54	17.31		
5	16QAM	12	13	17.29	17.49	17.25	18.3	0
5	16QAM	25	0	17.31	17.39	17.27		
5	64QAM	1	0	17.45	17.54	17.44		
5	64QAM	1	12	17.43	17.61	17.47	18.3	0
5	64QAM	1	24	17.47	17.61	17.48		



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5	64QAM	12	0	17.27	17.37	17.25	18.3	0
5	64QAM	12	7	17.34	17.48	17.32		
5	64QAM	12	13	17.30	17.44	17.23		
5	64QAM	25	0	17.30	17.41	17.26		
5	256QAM	1	0	17.64	17.55	17.54	18.3	0
5	256QAM	1	12	17.70	17.75	17.47		
5	256QAM	1	24	17.43	17.58	17.43		
5	256QAM	12	0	17.58	17.47	17.66	18.3	0
5	256QAM	12	7	17.56	17.63	17.62		
5	256QAM	12	13	17.51	17.47	17.67		
5	256QAM	25	0	17.57	17.45	17.51		



<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.92	22.71	22.79	23.8	0
10	QPSK	1	25	22.88	22.94	22.64		
10	QPSK	1	49	22.78	22.81	22.75		
10	QPSK	25	0	21.89	21.90	21.85	22.8	1
10	QPSK	25	12	22.08	22.10	22.05		
10	QPSK	25	25	21.97	22.04	21.98		
10	QPSK	50	0	21.89	21.95	21.83	22.8	1
10	16QAM	1	0	22.29	22.08	22.25		
10	16QAM	1	25	22.23	22.09	22.08		
10	16QAM	1	49	22.19	22.19	22.15	21.8	2
10	16QAM	25	0	20.97	20.90	20.91		
10	16QAM	25	12	21.07	21.06	21.08		
10	16QAM	25	25	21.06	21.08	20.98	21.8	2
10	16QAM	50	0	21.02	20.86	20.86		
10	64QAM	1	0	21.07	21.03	21.09		
10	64QAM	1	25	21.09	21.11	21.11	21.8	2
10	64QAM	1	49	21.16	21.17	21.11		
10	64QAM	25	0	19.88	19.85	19.86	22.8	1
10	64QAM	25	12	20.00	19.97	20.00		
10	64QAM	25	25	19.97	19.98	19.96		
10	64QAM	50	0	19.96	19.87	19.88	20.8	2
10	256QAM	1	0	21.07	21.03	21.09		
10	256QAM	1	25	21.09	21.11	21.11		
10	256QAM	1	49	21.16	21.17	21.11	21.8	1
10	256QAM	25	0	19.88	19.85	19.86		
10	256QAM	25	12	20.00	19.97	20.00		
10	256QAM	25	25	19.97	19.98	19.96	21.8	1
10	256QAM	50	0	19.96	19.87	19.88		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.88	22.78	22.86	23.8	0
5	QPSK	1	12	22.90	22.91	22.92		
5	QPSK	1	24	22.93	22.93	22.92		
5	QPSK	12	0	22.07	21.96	21.92	22.8	1
5	QPSK	12	7	22.04	22.05	21.98		
5	QPSK	12	13	22.01	21.98	21.98		
5	QPSK	25	0	22.06	21.91	21.91	22.8	1
5	16QAM	1	0	22.42	22.36	22.25		
5	16QAM	1	12	22.06	22.49	22.31		
5	16QAM	1	24	22.55	22.31	22.31	21.8	2
5	16QAM	12	0	21.08	20.93	20.91		
5	16QAM	12	7	21.05	21.02	20.92		
5	16QAM	12	13	21.03	20.96	20.91	21.8	2
5	16QAM	25	0	21.07	20.91	20.91		
5	64QAM	1	0	21.11	21.08	21.01		
5	64QAM	1	12	21.08	21.13	21.08	21.8	2
5	64QAM	1	24	21.14	21.13	21.07		
5	64QAM	12	0	20.01	20.02	19.99		
5	64QAM	12	7	20.03	20.06	19.98	22.8	1
5	64QAM	12	13	20.02	20.05	19.99		
5	64QAM	25	0	19.99	19.96	19.89		



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5	256QAM	1	0	21.11	21.08	21.01	20.8	2
5	256QAM	1	12	21.08	21.13	21.08		
5	256QAM	1	24	21.14	21.13	21.07		
5	256QAM	12	0	20.01	20.02	19.99	21.8	1
5	256QAM	12	7	20.03	20.06	19.98		
5	256QAM	12	13	20.02	20.05	19.99		
5	256QAM	25	0	19.99	19.96	19.89	Tune-up limit (dBm)	MPR (dB)
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.92	22.89	22.90	23.8	0
3	QPSK	1	8	22.91	22.93	22.90		
3	QPSK	1	14	22.93	22.92	22.81		
3	QPSK	8	0	22.01	21.93	21.97	22.8	1
3	QPSK	8	4	22.05	21.96	21.95		
3	QPSK	8	7	22.00	22.00	21.93		
3	QPSK	15	0	22.04	21.93	22.02	22.8	1
3	16QAM	1	0	21.97	21.88	22.07		
3	16QAM	1	8	21.98	21.99	21.93		
3	16QAM	1	14	21.98	21.88	22.07	21.8	2
3	16QAM	8	0	21.21	21.12	21.06		
3	16QAM	8	4	21.15	21.18	21.08		
3	16QAM	8	7	21.13	21.14	21.04	21.8	2
3	16QAM	15	0	21.12	21.05	21.07		
3	64QAM	1	0	21.14	21.10	21.06		
3	64QAM	1	8	21.19	21.18	21.08	21.8	2
3	64QAM	1	14	21.13	21.16	21.02		
3	64QAM	8	0	20.08	20.01	19.95	22.8	1
3	64QAM	8	4	20.06	20.08	19.97		
3	64QAM	8	7	20.00	20.05	19.94		
3	64QAM	15	0	20.02	19.93	19.94	20.8	2
3	256QAM	1	0	21.14	21.10	21.06		
3	256QAM	1	8	21.19	21.18	21.08		
3	256QAM	1	14	21.13	21.16	21.02	21.8	1
3	256QAM	8	0	20.08	20.01	19.95		
3	256QAM	8	4	20.06	20.08	19.97		
3	256QAM	8	7	20.00	20.05	19.94	20.2	19.93
3	256QAM	15	0	20.02	19.93	19.94		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.88	22.77	22.75		
1.4	QPSK	1	3	22.90	22.83	22.78	23.8	0
1.4	QPSK	1	5	22.82	22.79	22.74		
1.4	QPSK	3	0	22.87	22.79	22.70		
1.4	QPSK	3	1	22.89	22.78	22.75	22.8	1
1.4	QPSK	3	3	22.92	22.82	22.77		
1.4	QPSK	6	0	21.95	21.83	21.86		
1.4	16QAM	1	0	22.11	21.99	22.38	22.8	1
1.4	16QAM	1	3	22.27	22.17	22.43		
1.4	16QAM	1	5	22.18	22.12	22.23		
1.4	16QAM	3	0	21.98	21.92	21.83	21.8	2
1.4	16QAM	3	1	22.03	21.92	21.83		
1.4	16QAM	3	3	21.97	21.90	21.75		
1.4	16QAM	6	0	21.06	20.89	20.94	21.8	2
1.4	64QAM	1	0	21.07	20.99	21.00		
1.4	64QAM	1	3	21.11	21.14	21.02		
1.4	64QAM	1	5	21.05	21.09	20.95	21.8	2



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1.4	64QAM	3	0	21.06	20.97	20.96		
1.4	64QAM	3	1	21.12	21.03	20.99		
1.4	64QAM	3	3	21.09	21.04	20.96		
1.4	64QAM	6	0	19.93	19.84	19.81	22.8	1
1.4	256QAM	1	0	21.07	20.99	21.00	22.8	0
1.4	256QAM	1	3	21.11	21.14	21.02		
1.4	256QAM	1	5	21.05	21.09	20.95		
1.4	256QAM	3	0	21.06	20.97	20.96		
1.4	256QAM	3	1	21.12	21.03	20.99		
1.4	256QAM	3	3	21.09	21.04	20.96		
1.4	256QAM	6	0	19.93	19.84	19.81	22.8	0



<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.92		23.8	0
10	QPSK	1	25		22.90			
10	QPSK	1	49		22.84			
10	QPSK	25	0		22.01		22.8	1
10	QPSK	25	12		22.03			
10	QPSK	25	25		22.00			
10	QPSK	50	0		21.94		22.8	1
10	16QAM	1	0		22.56			
10	16QAM	1	25		22.55			
10	16QAM	1	49		22.45		21.8	2
10	16QAM	25	0		20.91			
10	16QAM	25	12		20.93			
10	16QAM	25	25		20.98		21.8	2
10	16QAM	50	0		20.91			
10	64QAM	1	0		20.84			
10	64QAM	1	25		20.93		21.8	2
10	64QAM	1	49		20.88			
10	64QAM	25	0		19.73			
10	64QAM	25	12		19.79		22.8	1
10	64QAM	25	25		19.81			
10	64QAM	50	0		19.70			
10	256QAM	1	0		20.84		20.8	2
10	256QAM	1	25		20.93			
10	256QAM	1	49		20.88			
10	256QAM	25	0		19.73		21.8	1
10	256QAM	25	12		19.79			
10	256QAM	25	25		19.81			
10	256QAM	50	0		19.70			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.91	22.90	22.84	23.8	0
5	QPSK	1	12	22.89	22.89	22.90		
5	QPSK	1	24	22.91	22.91	22.82		
5	QPSK	12	0	22.08	22.06	22.00	22.8	1
5	QPSK	12	7	22.15	22.08	22.08		
5	QPSK	12	13	22.12	22.12	22.07		
5	QPSK	25	0	21.98	21.96	21.91	22.8	1
5	16QAM	1	0	22.15	22.02	22.45		
5	16QAM	1	12	22.09	22.40	22.39		
5	16QAM	1	24	22.18	22.13	22.09	21.8	2
5	16QAM	12	0	21.19	21.18	20.95		
5	16QAM	12	7	21.14	21.12	21.07		
5	16QAM	12	13	21.13	21.07	21.04	21.8	2
5	16QAM	25	0	21.12	21.00	20.90		
5	64QAM	1	0	20.62	20.91	20.82	21.8	2
5	64QAM	1	12	20.98	20.93	20.81		
5	64QAM	1	24	20.96	20.86	20.86		
5	64QAM	12	0	19.91	19.78	19.77	22.8	1
5	64QAM	12	7	19.92	19.85	19.86		
5	64QAM	12	13	19.86	19.84	19.82		
5	64QAM	25	0	19.79	19.77	19.77		



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5	256QAM	1	0	20.62	20.91	20.82	20.8	2
5	256QAM	1	12	20.98	20.93	20.81		
5	256QAM	1	24	20.96	20.86	20.86		
5	256QAM	12	0	19.91	19.78	19.77	21.8	1
5	256QAM	12	7	19.92	19.85	19.86		
5	256QAM	12	13	19.86	19.84	19.82		
5	256QAM	25	0	19.79	19.77	19.77		



<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.85	22.96	22.89	23.8	0
10	QPSK	1	25	22.83	22.87	22.95		
10	QPSK	1	49	22.88	22.95	22.91		
10	QPSK	25	0	22.00	22.01	22.00	22.8	1
10	QPSK	25	12	22.06	22.09	22.01		
10	QPSK	25	25	22.04	21.91	21.96		
10	QPSK	50	0	21.98	22.04	22.02	22.8	1
10	16QAM	1	0	22.26	22.50	22.57		
10	16QAM	1	25	22.20	22.56	22.57		
10	16QAM	1	49	22.19	22.42	22.58	21.8	2
10	16QAM	25	0	21.05	21.04	21.10		
10	16QAM	25	12	21.21	20.93	21.05		
10	16QAM	25	25	21.11	21.08	21.03	21.8	2
10	16QAM	50	0	20.99	21.08	21.02		
10	64QAM	1	0	21.12	21.06	20.99		
10	64QAM	1	25	21.15	21.21	21.11	21.8	2
10	64QAM	1	49	21.16	21.11	21.09		
10	64QAM	25	0	19.98	19.97	19.96		
10	64QAM	25	12	20.09	20.03	19.99	22.8	1
10	64QAM	25	25	20.03	19.95	19.93		
10	64QAM	50	0	19.97	19.99	19.99		
10	256QAM	1	0	21.12	21.06	20.99	20.8	2
10	256QAM	1	25	21.15	21.21	21.11		
10	256QAM	1	49	21.16	21.11	21.09		
10	256QAM	25	0	19.98	19.97	19.96	21.8	1
10	256QAM	25	12	20.09	20.03	19.99		
10	256QAM	25	25	20.03	19.95	19.93		
10	256QAM	50	0	19.97	19.99	19.99	Tune-up limit (dBm)	MPR (dB)
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	22.93	22.95	22.83		
5	QPSK	1	12	22.94	22.95	22.89	23.8	0
5	QPSK	1	24	22.95	22.91	22.75		
5	QPSK	12	0	22.02	22.02	21.94		
5	QPSK	12	7	22.04	22.01	22.05	22.8	1
5	QPSK	12	13	22.08	21.96	21.93		
5	QPSK	25	0	22.10	22.06	22.07		
5	16QAM	1	0	22.34	22.23	22.23	22.8	1
5	16QAM	1	12	22.37	22.39	22.16		
5	16QAM	1	24	22.38	22.22	22.20		
5	16QAM	12	0	21.02	20.98	20.91	21.8	2
5	16QAM	12	7	21.04	20.98	20.98		
5	16QAM	12	13	21.08	20.97	20.87		
5	16QAM	25	0	21.02	20.96	20.96	21.8	2
5	64QAM	1	0	21.11	21.06	21.07		
5	64QAM	1	12	21.10	21.11	21.06		
5	64QAM	1	24	21.16	21.06	21.01	22.8	1
5	64QAM	12	0	20.04	19.99	20.01		
5	64QAM	12	7	20.09	20.04	20.00		
5	64QAM	12	13	20.11	20.03	19.98	Tune-up limit (dBm)	MPR (dB)
5	64QAM	25	0	20.03	19.99	19.94		



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5	256QAM	1	0	21.11	21.06	21.07	20.8	2
5	256QAM	1	12	21.10	21.11	21.06		
5	256QAM	1	24	21.16	21.06	21.01		
5	256QAM	12	0	20.04	19.99	20.01	21.8	1
5	256QAM	12	7	20.09	20.04	20.00		
5	256QAM	12	13	20.11	20.03	19.98		
5	256QAM	25	0	20.03	19.99	19.94		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590	18.3	0
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	17.62	17.64	17.57		
20	QPSK	1	49	17.52	17.59	17.51	18.3	0
20	QPSK	1	99	17.48	17.58	17.52		
20	QPSK	50	0	17.52	17.50	17.48		
20	QPSK	50	24	17.53	17.61	17.54	18.3	0
20	QPSK	50	50	17.52	17.53	17.53		
20	QPSK	100	0	17.59	17.60	17.58		
20	16QAM	1	0	17.50	17.56	17.51	18.3	0
20	16QAM	1	49	17.45	17.56	17.53		
20	16QAM	1	99	17.44	17.51	17.52		
20	16QAM	50	0	17.55	17.44	17.58	18.3	0
20	16QAM	50	24	17.42	17.47	17.61		
20	16QAM	50	50	17.56	17.46	17.59		
20	16QAM	100	0	17.59	17.39	17.59	18.3	0
20	64QAM	1	0	17.37	17.56	17.44		
20	64QAM	1	49	17.32	17.57	17.49		
20	64QAM	1	99	17.27	17.56	17.49	18.3	0
20	64QAM	50	0	17.19	17.39	17.36		
20	64QAM	50	24	17.29	17.51	17.34		
20	64QAM	50	50	17.20	17.43	17.39	18.3	0
20	64QAM	100	0	17.20	17.37	17.23		
20	256QAM	1	0	17.48	17.45	17.55		
20	256QAM	1	49	17.35	17.55	17.38	18.3	0
20	256QAM	1	99	17.41	17.38	17.43		
20	256QAM	50	0	17.38	17.41	17.39		
20	256QAM	50	24	17.37	17.56	17.39	18.3	0
20	256QAM	50	50	17.39	17.48	17.40		
20	256QAM	100	0	17.39	17.46	17.55		
Channel				26115	26340	26615	18.3	0
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	17.03	17.36	17.25		
15	QPSK	1	37	17.20	17.31	17.21	18.3	0
15	QPSK	1	74	17.12	17.32	17.25		
15	QPSK	36	0	17.18	17.29	17.22	18.3	0
15	QPSK	36	20	17.35	17.47	17.39		
15	QPSK	36	39	17.31	17.43	17.33		
15	QPSK	75	0	17.29	17.41	17.33	18.3	0
15	16QAM	1	0	17.35	17.40	17.60		
15	16QAM	1	37	17.54	17.63	17.55		
15	16QAM	1	74	17.41	17.47	17.52	18.3	0
15	16QAM	36	0	17.16	17.29	17.18		
15	16QAM	36	20	17.34	17.46	17.36		
15	16QAM	36	39	17.27	17.38	17.30	18.3	0
15	16QAM	75	0	17.28	17.39	17.29		
15	64QAM	1	0	17.26	17.55	17.40		
15	64QAM	1	37	17.48	17.47	17.44	18.3	0
15	64QAM	1	74	17.28	17.47	17.45		
15	64QAM	36	0	17.15	17.30	17.18		
15	64QAM	36	20	17.33	17.44	17.35	18.3	0
15	64QAM	36	39	17.27	17.39	17.31		
15	64QAM	75	0	17.29	17.37	17.28		



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15	256QAM	1	0	17.45	17.37	17.49	18.3	0
15	256QAM	1	37	17.27	17.51	17.31		
15	256QAM	1	74	17.31	17.34	17.33		
15	256QAM	36	0	17.37	17.33	17.39	18.3	0
15	256QAM	36	20	17.34	17.48	17.35		
15	256QAM	36	39	17.39	17.46	17.37		
15	256QAM	75	0	17.29	17.41	17.54	Tune-up limit (dBm)	MPR (dB)
Channel				26090	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	16.71	16.79	17.04	18.3	0
10	QPSK	1	25	16.92	17.06	17.03		
10	QPSK	1	49	16.72	16.84	17.07		
10	QPSK	25	0	16.92	17.03	17.07	18.3	0
10	QPSK	25	12	17.10	17.21	17.13		
10	QPSK	25	25	17.01	17.15	17.18		
10	QPSK	50	0	17.04	17.16	17.08	18.3	0
10	16QAM	1	0	17.05	17.15	17.42		
10	16QAM	1	25	17.27	17.39	17.41		
10	16QAM	1	49	17.04	17.18	17.40	18.3	0
10	16QAM	25	0	16.91	17.04	17.03		
10	16QAM	25	12	17.08	17.36	17.13		
10	16QAM	25	25	16.99	17.13	17.15	18.3	0
10	16QAM	50	0	17.03	17.14	17.06		
10	64QAM	1	0	17.07	17.15	17.40		
10	64QAM	1	25	17.33	17.42	17.47	18.3	0
10	64QAM	1	49	17.07	17.24	17.45		
10	64QAM	25	0	16.89	17.06	17.05		
10	64QAM	25	12	17.08	17.22	17.13	18.3	0
10	64QAM	25	25	17.00	17.10	17.12		
10	64QAM	50	0	16.98	17.14	17.08		
10	256QAM	1	0	17.43	17.31	17.43	18.3	0
10	256QAM	1	25	17.22	17.46	17.25		
10	256QAM	1	49	17.29	17.26	17.27		
10	256QAM	25	0	17.27	17.32	17.37	18.3	0
10	256QAM	25	12	17.27	17.38	17.28		
10	256QAM	25	25	17.39	17.37	17.36		
10	256QAM	50	0	17.22	17.38	17.50	Tune-up limit (dBm)	MPR (dB)
Channel				26065	26340	26665		
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	16.96	16.98	17.02	18.3	0
5	QPSK	1	12	16.98	17.10	17.09		
5	QPSK	1	24	16.99	17.11	17.09		
5	QPSK	12	0	17.05	17.12	17.08	18.3	0
5	QPSK	12	7	17.13	17.20	17.13		
5	QPSK	12	13	17.10	17.20	17.18		
5	QPSK	25	0	17.07	17.16	17.13	18.3	0
5	16QAM	1	0	17.22	17.31	17.33		
5	16QAM	1	12	17.23	17.39	17.38		
5	16QAM	1	24	17.33	17.45	17.42	18.3	0
5	16QAM	12	0	17.03	17.10	17.11		
5	16QAM	12	7	17.12	17.17	17.14		
5	16QAM	12	13	17.10	17.22	17.20	18.3	0
5	16QAM	25	0	17.06	17.19	17.11		
5	64QAM	1	0	17.14	17.23	17.25		
5	64QAM	1	12	17.18	17.22	17.33	18.3	0
5	64QAM	1	24	17.22	17.34	17.31		



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5	64QAM	12	0	17.00	17.06	17.07	18.3	0
5	64QAM	12	7	17.08	17.20	17.12		
5	64QAM	12	13	17.09	17.17	17.20		
5	64QAM	25	0	17.04	17.16	17.11		
5	256QAM	1	0	17.34	17.21	17.43	18.3	0
5	256QAM	1	12	17.15	17.37	17.23		
5	256QAM	1	24	17.19	17.23	17.19		
5	256QAM	12	0	17.22	17.25	17.37	18.3	0
5	256QAM	12	7	17.26	17.35	17.23		
5	256QAM	12	13	17.33	17.30	17.28		
5	256QAM	25	0	17.14	17.37	17.48		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	16.97	17.03	17.06	18.3	0
3	QPSK	1	8	17.04	17.13	17.16		
3	QPSK	1	14	17.02	17.13	17.12		
3	QPSK	8	0	17.08	17.13	17.16	18.3	0
3	QPSK	8	4	17.11	17.22	17.21		
3	QPSK	8	7	17.08	17.19	17.18		
3	QPSK	15	0	17.09	17.18	17.19		
3	16QAM	1	0	17.31	17.34	17.36	18.3	0
3	16QAM	1	8	17.33	17.46	17.48		
3	16QAM	1	14	17.31	17.48	17.45		
3	16QAM	8	0	17.11	17.17	17.19	18.3	0
3	16QAM	8	4	17.16	17.26	17.26		
3	16QAM	8	7	17.13	17.27	17.25		
3	16QAM	15	0	17.09	17.21	17.19		
3	64QAM	1	0	17.21	17.22	17.29	18.3	0
3	64QAM	1	8	17.28	17.38	17.41		
3	64QAM	1	14	17.24	17.31	17.39		
3	64QAM	8	0	17.16	17.17	17.26	18.3	0
3	64QAM	8	4	17.17	17.27	17.26		
3	64QAM	8	7	17.15	17.24	17.27		
3	64QAM	15	0	17.11	17.22	17.21		
3	256QAM	1	0	17.33	17.19	17.34	18.3	0
3	256QAM	1	8	17.09	17.32	17.22		
3	256QAM	1	14	17.19	17.13	17.10		
3	256QAM	8	0	17.17	17.19	17.37	18.3	0
3	256QAM	8	4	17.17	17.27	17.23		
3	256QAM	8	7	17.25	17.29	17.23		
3	256QAM	15	0	17.12	17.35	17.43		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	16.86	16.93	16.97	18.3	0
1.4	QPSK	1	3	16.98	17.07	17.06		
1.4	QPSK	1	5	16.94	17.01	16.99		
1.4	QPSK	3	0	16.94	17.00	17.01		
1.4	QPSK	3	1	16.95	17.05	17.02		
1.4	QPSK	3	3	16.95	17.03	16.99		
1.4	QPSK	6	0	17.02	17.10	17.06	18.3	0
1.4	16QAM	1	0	17.20	17.22	17.26	18.3	0
1.4	16QAM	1	3	17.28	17.43	17.36		
1.4	16QAM	1	5	17.22	17.30	17.26		
1.4	16QAM	3	0	17.00	17.09	17.09		
1.4	16QAM	3	1	17.04	17.11	17.12		
1.4	16QAM	3	3	17.01	17.08	17.08		



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1.4	16QAM	6	0	17.06	17.11	17.14	18.3	0
1.4	64QAM	1	0	17.15	17.19	17.21	18.3	0
1.4	64QAM	1	3	17.22	17.29	17.33		
1.4	64QAM	1	5	17.15	17.27	17.25		
1.4	64QAM	3	0	17.13	17.22	17.21		
1.4	64QAM	3	1	17.17	17.29	17.25		
1.4	64QAM	3	3	17.14	17.24	17.21		
1.4	64QAM	6	0	17.03	17.10	17.09	18.3	0
1.4	256QAM	1	0	17.31	17.16	17.28	18.3	0
1.4	256QAM	1	3	17.00	17.28	17.16		
1.4	256QAM	1	5	17.18	17.09	17.03		
1.4	256QAM	3	0	17.12	17.16	17.36		
1.4	256QAM	3	1	17.14	17.21	17.17		
1.4	256QAM	3	3	17.19	17.23	17.22		
1.4	256QAM	6	0	17.02	17.33	17.39	18.3	0



<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710			19.3	0
Frequency (MHz)				2310				
10	QPSK	1	0		18.42		19.3	0
10	QPSK	1	25		18.37			
10	QPSK	1	49		18.32			
10	QPSK	25	0		18.34		19.3	0
10	QPSK	25	12		18.41			
10	QPSK	25	25		18.31			
10	QPSK	50	0		18.34		19.3	0
10	16QAM	1	0		18.37			
10	16QAM	1	25		18.36			
10	16QAM	1	49		18.35		19.3	0
10	16QAM	25	0		18.38			
10	16QAM	25	12		18.33			
10	16QAM	25	25		18.32		19.3	0
10	16QAM	50	0		18.34			
10	64QAM	1	0		18.30		19.3	0
10	64QAM	1	25		18.37			
10	64QAM	1	49		18.39			
10	64QAM	25	0		17.88		19.3	0
10	64QAM	25	12		17.95			
10	64QAM	25	25		17.83			
10	64QAM	50	0		17.83		18.8	0
10	256QAM	1	0		18.30			
10	256QAM	1	25		18.23			
10	256QAM	1	49		18.25		18.8	0
10	256QAM	25	0		18.12			
10	256QAM	25	12		18.36			
10	256QAM	25	25		18.20		18.8	0
10	256QAM	50	0		18.29			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5	19.3	0
5	QPSK	1	0	18.02	17.95	18.00		
5	QPSK	1	12	18.06	18.09	18.02		
5	QPSK	1	24	18.01	17.91	17.94	19.3	0
5	QPSK	12	0	18.13	18.08	18.13		
5	QPSK	12	7	18.18	18.07	18.11		
5	QPSK	12	13	18.11	18.04	18.09	19.3	0
5	QPSK	25	0	18.09	18.07	18.08		
5	16QAM	1	0	18.28	18.26	18.38		
5	16QAM	1	12	18.37	18.40	18.35	19.3	0
5	16QAM	1	24	18.32	18.26	18.32		
5	16QAM	12	0	18.17	18.10	18.15		
5	16QAM	12	7	18.24	18.16	18.17	19.3	0
5	16QAM	12	13	18.14	18.10	18.12		
5	16QAM	25	0	18.14	18.08	18.13		
5	64QAM	1	0	18.25	18.24	18.27	19.3	0
5	64QAM	1	12	18.31	18.35	18.30		
5	64QAM	1	24	18.25	18.18	18.20		
5	64QAM	12	0	18.10	18.09	18.10	19.3	0
5	64QAM	12	7	18.21	18.10	18.16		
5	64QAM	12	13	18.14	18.08	18.07		
5	64QAM	25	0	18.17	18.09	18.13		



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5	256QAM	1	0	18.25	18.28	18.23	18.8	0
5	256QAM	1	12	18.22	18.14	18.22		
5	256QAM	1	24	18.18	18.15	18.22		
5	256QAM	12	0	18.05	18.12	18.04	18.8	0
5	256QAM	12	7	18.27	18.32	18.26		
5	256QAM	12	13	18.10	18.14	18.18		
5	256QAM	25	0	18.27	18.24	18.21		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	20.8	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.73	19.88	19.86		
20	QPSK	1	49	19.70	19.86	19.85	20.8	0
20	QPSK	1	99	19.50	19.67	19.50		
20	QPSK	50	0	19.72	19.83	19.77		
20	QPSK	50	24	19.85	19.86	19.79	20.8	0
20	QPSK	50	50	19.81	19.78	19.78		
20	QPSK	100	0	19.82	19.83	19.80		
20	16QAM	1	0	19.73	19.80	19.77	20.8	0
20	16QAM	1	49	19.83	19.84	19.78		
20	16QAM	1	99	19.72	19.82	19.80		
20	16QAM	50	0	19.76	19.76	19.80	20.8	0
20	16QAM	50	24	19.80	19.74	19.83		
20	16QAM	50	50	19.79	19.79	19.79		
20	16QAM	100	0	19.76	19.84	19.72	20.8	0
20	64QAM	1	0	19.72	19.75	19.84		
20	64QAM	1	49	19.59	19.83	19.79		
20	64QAM	1	99	19.76	19.72	19.78	20.8	0
20	64QAM	50	0	19.78	19.77	19.79		
20	64QAM	50	24	19.81	19.72	19.81		
20	64QAM	50	50	19.81	19.81	19.80	20.8	0
20	64QAM	100	0	19.82	19.85	19.73		
20	256QAM	1	0	17.53	17.68	17.66		
20	256QAM	1	49	17.50	17.66	17.65	18.8	0
20	256QAM	1	99	17.30	17.47	17.30		
20	256QAM	50	0	17.52	17.63	17.57		
20	256QAM	50	24	17.65	17.66	17.59	18.8	0
20	256QAM	50	50	17.61	17.58	17.58		
20	256QAM	100	0	17.62	17.63	17.60		
Channel				132047	132322	132597	20.8	0
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.66	19.72	19.74		
15	QPSK	1	37	19.62	19.73	19.78	20.8	0
15	QPSK	1	74	19.47	19.62	19.48		
15	QPSK	36	0	19.61	19.65	19.58	20.8	0
15	QPSK	36	20	19.66	19.75	19.64		
15	QPSK	36	39	19.68	19.77	19.67		
15	QPSK	75	0	19.73	19.70	19.65	20.8	0
15	16QAM	1	0	19.66	19.71	19.69		
15	16QAM	1	37	19.69	19.68	19.76		
15	16QAM	1	74	19.68	19.73	19.65	20.8	0
15	16QAM	36	0	19.62	19.71	19.79		
15	16QAM	36	20	19.76	19.58	19.66		
15	16QAM	36	39	19.74	19.71	19.64	20.8	0
15	16QAM	75	0	19.57	19.72	19.58		
15	64QAM	1	0	19.60	19.56	19.65		
15	64QAM	1	37	19.53	19.66	19.64	20.8	0
15	64QAM	1	74	19.59	19.57	19.73		
15	64QAM	36	0	19.62	19.62	19.70		
15	64QAM	36	20	19.73	19.66	19.70	20.8	0
15	64QAM	36	39	19.78	19.66	19.70		
15	64QAM	75	0	19.75	19.75	19.67		



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15	256QAM	1	0	17.51	17.62	17.62	18.8	0
15	256QAM	1	37	17.48	17.58	17.62		
15	256QAM	1	74	17.25	17.47	17.24		
15	256QAM	36	0	17.43	17.56	17.52	18.8	0
15	256QAM	36	20	17.65	17.59	17.49		
15	256QAM	36	39	17.60	17.58	17.49		
15	256QAM	75	0	17.57	17.57	17.59	Tune-up limit (dBm)	MPR (dB)
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.58	19.72	19.76	20.8	0
10	QPSK	1	25	19.62	19.80	19.71		
10	QPSK	1	49	19.42	19.62	19.36		
10	QPSK	25	0	19.55	19.67	19.64	20.8	0
10	QPSK	25	12	19.69	19.76	19.77		
10	QPSK	25	25	19.63	19.68	19.75		
10	QPSK	50	0	19.74	19.70	19.70	20.8	0
10	16QAM	1	0	19.55	19.72	19.60		
10	16QAM	1	25	19.65	19.66	19.75		
10	16QAM	1	49	19.71	19.75	19.74	20.8	0
10	16QAM	25	0	19.58	19.70	19.63		
10	16QAM	25	12	19.72	19.63	19.71		
10	16QAM	25	25	19.59	19.68	19.62	20.8	0
10	16QAM	50	0	19.67	19.65	19.64		
10	64QAM	1	0	19.57	19.64	19.77		
10	64QAM	1	25	19.44	19.80	19.77	20.8	0
10	64QAM	1	49	19.73	19.64	19.76		
10	64QAM	25	0	19.64	19.60	19.77		
10	64QAM	25	12	19.63	19.58	19.75	20.8	0
10	64QAM	25	25	19.68	19.78	19.72		
10	64QAM	50	0	19.75	19.71	19.57		
10	256QAM	1	0	17.41	17.53	17.58	18.8	0
10	256QAM	1	25	17.46	17.54	17.53		
10	256QAM	1	49	17.15	17.44	17.18		
10	256QAM	25	0	17.39	17.52	17.48	18.8	0
10	256QAM	25	12	17.59	17.52	17.46		
10	256QAM	25	25	17.54	17.51	17.42		
10	256QAM	50	0	17.49	17.55	17.58	Tune-up limit (dBm)	MPR (dB)
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.55	19.80	19.76	20.8	0
5	QPSK	1	12	19.53	19.69	19.73		
5	QPSK	1	24	19.30	19.65	19.35		
5	QPSK	12	0	19.63	19.79	19.75	20.8	0
5	QPSK	12	7	19.65	19.84	19.68		
5	QPSK	12	13	19.66	19.69	19.74		
5	QPSK	25	0	19.69	19.71	19.65	20.8	0
5	16QAM	1	0	19.62	19.68	19.74		
5	16QAM	1	12	19.74	19.74	19.62		
5	16QAM	1	24	19.63	19.65	19.73	20.8	0
5	16QAM	12	0	19.63	19.60	19.63		
5	16QAM	12	7	19.77	19.70	19.73		
5	16QAM	12	13	19.72	19.71	19.67	20.8	0
5	16QAM	25	0	19.75	19.82	19.71		
5	64QAM	1	0	19.69	19.66	19.79		
5	64QAM	1	12	19.55	19.74	19.66	20.8	0
5	64QAM	1	24	19.74	19.68	19.64		



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5	64QAM	12	0	19.77	19.62	19.78	20.8	0
5	64QAM	12	7	19.61	19.60	19.69		
5	64QAM	12	13	19.64	19.69	19.73		
5	64QAM	25	0	19.70	19.83	19.70		
5	256QAM	1	0	17.38	17.43	17.53	18.8	0
5	256QAM	1	12	17.46	17.44	17.44		
5	256QAM	1	24	17.15	17.44	17.08		
5	256QAM	12	0	17.38	17.47	17.46	18.8	0
5	256QAM	12	7	17.56	17.48	17.45		
5	256QAM	12	13	17.46	17.50	17.36		
5	256QAM	25	0	17.39	17.47	17.51		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.33	19.49	19.41	20.8	0
3	QPSK	1	8	19.32	19.54	19.35		
3	QPSK	1	14	19.22	19.45	19.24		
3	QPSK	8	0	19.38	19.58	19.48	20.8	0
3	QPSK	8	4	19.41	19.65	19.47		
3	QPSK	8	7	19.34	19.53	19.35		
3	QPSK	15	0	19.37	19.50	19.39		
3	16QAM	1	0	19.67	19.83	19.71	20.8	0
3	16QAM	1	8	19.63	19.80	19.71		
3	16QAM	1	14	19.56	19.72	19.59		
3	16QAM	8	0	19.43	19.64	19.54	20.8	0
3	16QAM	8	4	19.49	19.65	19.51		
3	16QAM	8	7	19.37	19.59	19.45		
3	16QAM	15	0	19.41	19.53	19.47		
3	64QAM	1	0	19.55	19.75	19.67	20.8	0
3	64QAM	1	8	19.57	19.74	19.68		
3	64QAM	1	14	19.44	19.67	19.55		
3	64QAM	8	0	19.46	19.60	19.31	20.8	0
3	64QAM	8	4	19.46	19.67	19.52		
3	64QAM	8	7	19.39	19.63	19.47		
3	64QAM	15	0	19.39	19.54	19.31		
3	256QAM	1	0	17.36	17.33	17.50	18.8	0
3	256QAM	1	8	17.37	17.38	17.44		
3	256QAM	1	14	17.15	17.35	17.08		
3	256QAM	8	0	17.35	17.44	17.43	18.8	0
3	256QAM	8	4	17.46	17.43	17.39		
3	256QAM	8	7	17.45	17.42	17.31		
3	256QAM	15	0	17.32	17.40	17.49		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.21	19.43	19.29	20.8	0
1.4	QPSK	1	3	19.27	19.47	19.30		
1.4	QPSK	1	5	19.17	19.39	19.20		
1.4	QPSK	3	0	19.24	19.48	19.30		
1.4	QPSK	3	1	19.25	19.48	19.33		
1.4	QPSK	3	3	19.20	19.44	19.24	20.8	0
1.4	QPSK	6	0	19.29	19.54	19.32		
1.4	16QAM	1	0	19.57	19.81	19.61	20.8	0
1.4	16QAM	1	3	19.59	19.84	19.67		
1.4	16QAM	1	5	19.50	19.72	19.54		
1.4	16QAM	3	0	19.32	19.53	19.38		
1.4	16QAM	3	1	19.38	19.56	19.46		
1.4	16QAM	3	3	19.29	19.51	19.36		



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1.4	16QAM	6	0	19.39	19.61	19.42	20.8	0
1.4	64QAM	1	0	19.48	19.64	19.56	20.8	0
1.4	64QAM	1	3	19.50	19.67	19.57		
1.4	64QAM	1	5	19.41	19.57	19.48		
1.4	64QAM	3	0	19.44	19.64	19.51		
1.4	64QAM	3	1	19.46	19.68	19.53		
1.4	64QAM	3	3	19.41	19.61	19.48		
1.4	64QAM	6	0	19.30	19.50	19.40	20.8	0
1.4	256QAM	1	0	17.26	17.25	17.43	18.8	0
1.4	256QAM	1	3	17.37	17.33	17.43		
1.4	256QAM	1	5	17.14	17.26	17.02		
1.4	256QAM	3	0	17.25	17.44	17.43		
1.4	256QAM	3	1	17.37	17.35	17.35		
1.4	256QAM	3	3	17.39	17.39	17.27		
1.4	256QAM	6	0	17.22	17.30	17.43	18.8	0



<LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.58	23.65	23.62	23.8	0
20	QPSK	1	49	23.55	23.62	23.55		
20	QPSK	1	99	23.42	23.45	23.47		
20	QPSK	50	0	22.53	22.66	22.61	22.8	1
20	QPSK	50	24	22.51	22.69	22.53		
20	QPSK	50	50	22.46	22.55	22.48		
20	QPSK	100	0	22.43	22.49	22.46	22.8	1
20	16QAM	1	0	22.65	22.67	22.52		
20	16QAM	1	49	22.56	22.61	22.57		
20	16QAM	1	99	22.47	22.52	22.44	21.8	2
20	16QAM	50	0	21.59	21.66	21.53		
20	16QAM	50	24	21.48	21.59	21.50		
20	16QAM	50	50	21.46	21.53	21.56	21.8	2
20	16QAM	100	0	21.38	21.40	21.44		
20	64QAM	1	0	21.59	21.73	21.71		
20	64QAM	1	49	21.62	21.66	21.63	21.8	2
20	64QAM	1	99	21.68	21.62	21.61		
20	64QAM	50	0	20.48	20.60	20.57	20.8	3
20	64QAM	50	24	20.57	20.65	20.54		
20	64QAM	50	50	20.60	20.57	20.43		
20	64QAM	100	0	20.46	20.46	20.50	20.8	2
20	256QAM	1	0	21.59	21.73	21.71		
20	256QAM	1	49	21.62	21.66	21.63		
20	256QAM	1	99	21.68	21.62	21.61	19.8	3
20	256QAM	50	0	20.48	20.60	20.57		
20	256QAM	50	24	20.57	20.65	20.54		
20	256QAM	50	50	20.60	20.57	20.43	20.8	3
20	256QAM	100	0	20.46	20.46	20.50		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.55	23.61	23.59	23.8	0
15	QPSK	1	37	23.51	23.56	23.53		
15	QPSK	1	74	23.44	23.40	23.33		
15	QPSK	36	0	22.64	22.69	22.71	22.8	1
15	QPSK	36	20	22.56	22.60	22.63		
15	QPSK	36	39	22.52	22.57	22.49		
15	QPSK	75	0	22.52	22.54	22.45	22.8	1
15	16QAM	1	0	22.77	22.73	22.65		
15	16QAM	1	37	22.73	22.60	22.78		
15	16QAM	1	74	22.54	22.77	22.67	21.8	2
15	16QAM	36	0	21.78	21.71	21.77		
15	16QAM	36	20	21.59	21.68	21.56		
15	16QAM	36	39	21.56	21.62	21.52	21.8	2
15	16QAM	75	0	21.44	21.58	21.49		
15	64QAM	1	0	21.70	21.66	21.80		
15	64QAM	1	37	21.68	21.62	21.67	21.8	2
15	64QAM	1	74	21.57	21.57	21.62		
15	64QAM	36	0	20.41	20.58	20.55	20.8	3
15	64QAM	36	20	20.56	20.61	20.54		
15	64QAM	36	39	20.48	20.55	20.55		
15	64QAM	75	0	20.53	20.41	20.49	20.8	3



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15	256QAM	1	0	21.70	21.66	21.80	20.8	2
15	256QAM	1	37	21.68	21.62	21.67		
15	256QAM	1	74	21.57	21.57	21.62		
15	256QAM	36	0	20.41	20.58	20.55	19.8	3
15	256QAM	36	20	20.56	20.61	20.54		
15	256QAM	36	39	20.48	20.55	20.55		
15	256QAM	75	0	20.53	20.41	20.49	Tune-up limit (dBm)	MPR (dB)
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.44	23.49	23.50	23.8	0
10	QPSK	1	25	23.35	23.37	23.45		
10	QPSK	1	49	23.29	23.21	23.32		
10	QPSK	25	0	22.42	22.40	22.44	22.8	1
10	QPSK	25	12	22.46	22.51	22.56		
10	QPSK	25	25	22.50	22.46	22.45		
10	QPSK	50	0	22.34	22.43	22.39	22.8	1
10	16QAM	1	0	22.64	22.71	22.57		
10	16QAM	1	25	22.59	22.56	22.62		
10	16QAM	1	49	22.73	22.52	22.53	21.8	2
10	16QAM	25	0	21.30	21.54	21.44		
10	16QAM	25	12	21.38	21.47	21.50		
10	16QAM	25	25	21.40	21.43	21.40	21.8	2
10	16QAM	50	0	21.25	21.36	21.44		
10	64QAM	1	0	21.45	21.55	21.63		
10	64QAM	1	25	21.56	21.45	21.52	21.8	2
10	64QAM	1	49	21.60	21.51	21.44		
10	64QAM	25	0	20.27	20.26	20.41	20.8	3
10	64QAM	25	12	20.48	20.45	20.34		
10	64QAM	25	25	20.31	20.35	20.40		
10	64QAM	50	0	20.32	20.35	20.33	20.8	2
10	256QAM	1	0	21.45	21.55	21.63		
10	256QAM	1	25	21.56	21.45	21.52		
10	256QAM	1	49	21.60	21.51	21.44	19.8	3
10	256QAM	25	0	20.27	20.26	20.41		
10	256QAM	25	12	20.48	20.45	20.34		
10	256QAM	25	25	20.31	20.35	20.40	20.32	20.35
10	256QAM	50	0	20.32	20.35	20.33		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.45	23.50	23.53	23.8	0
5	QPSK	1	12	23.43	23.40	23.43		
5	QPSK	1	24	23.29	23.39	23.40		
5	QPSK	12	0	22.56	22.43	22.45	22.8	1
5	QPSK	12	7	22.41	22.39	22.34		
5	QPSK	12	13	22.50	22.48	22.43		
5	QPSK	25	0	22.39	22.43	22.39	22.8	1
5	16QAM	1	0	22.52	22.49	22.51		
5	16QAM	1	12	22.53	22.43	22.39		
5	16QAM	1	24	22.43	22.46	22.33	21.8	2
5	16QAM	12	0	21.44	21.37	21.42		
5	16QAM	12	7	21.50	21.48	21.43		
5	16QAM	12	13	21.39	21.43	21.39	21.8	2
5	16QAM	25	0	21.34	21.44	21.29		
5	64QAM	1	0	21.40	21.27	21.31		
5	64QAM	1	12	21.44	21.47	21.37	21.8	2
5	64QAM	1	24	21.48	21.52	21.44		



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5	64QAM	12	0	20.31	20.34	20.25	20.8	3
5	64QAM	12	7	20.36	20.43	20.40		
5	64QAM	12	13	20.38	20.41	20.34		
5	64QAM	25	0	20.41	20.43	20.23		
5	256QAM	1	0	21.40	21.27	21.31	20.8	2
5	256QAM	1	12	21.44	21.47	21.37		
5	256QAM	1	24	21.48	21.52	21.44		
5	256QAM	12	0	20.31	20.34	20.25	19.8	3
5	256QAM	12	7	20.36	20.43	20.40		
5	256QAM	12	13	20.38	20.41	20.34		
5	256QAM	25	0	20.41	20.43	20.23		

**UAT Reduced Power Mode for Sensor On****<LTE Band 2>**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	19.05	19.36	19.32	20	0
20	QPSK	1	49	19.07	19.32	19.19		
20	QPSK	1	99	18.88	19.20	19.12		
20	QPSK	50	0	19.31	19.26	19.12	20	0
20	QPSK	50	24	19.17	19.32	19.23		
20	QPSK	50	50	19.23	19.30	19.28		
20	QPSK	100	0	19.00	19.11	19.05	20	0
20	16QAM	1	0	19.20	19.26	19.19		
20	16QAM	1	49	19.03	19.25	19.09		
20	16QAM	1	99	18.95	19.33	19.15	20	0
20	16QAM	50	0	19.30	19.28	19.30		
20	16QAM	50	24	19.34	19.27	19.33		
20	16QAM	50	50	19.19	19.32	19.24	20	0
20	16QAM	100	0	19.10	19.19	19.32		
20	64QAM	1	0	18.94	19.26	19.14		
20	64QAM	1	49	18.98	19.16	19.26	20	0
20	64QAM	1	99	18.91	19.17	19.09		
20	64QAM	50	0	18.78	18.98	18.85		
20	64QAM	50	24	18.81	18.07	19.00	19	1
20	64QAM	50	50	18.87	18.98	18.92		
20	64QAM	100	0	18.79	18.83	18.89		
20	256QAM	1	0	15.90	16.04	15.99	17	0
20	256QAM	1	49	16.31	16.32	16.30		
20	256QAM	1	99	16.12	16.20	16.18		
20	256QAM	50	0	16.25	16.24	16.25	17	1
20	256QAM	50	24	16.30	16.34	16.32		
20	256QAM	50	50	16.35	16.46	16.37		
20	256QAM	100	0	16.22	16.32	16.28	Tune-up limit (dBm)	MPR (dB)
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	0	18.72	18.94	19.11		
15	QPSK	1	37	18.84	19.07	19.12	20	0
15	QPSK	1	74	18.62	19.07	19.15		
15	QPSK	36	0	18.93	19.12	18.91	20	0
15	QPSK	36	20	18.98	19.00	18.91		
15	QPSK	36	39	19.09	19.15	19.23		
15	QPSK	75	0	18.83	18.90	18.96	20	0
15	16QAM	1	0	18.84	19.07	19.25		
15	16QAM	1	37	18.95	19.23	19.06		
15	16QAM	1	74	18.90	19.27	19.27	20	0
15	16QAM	36	0	18.65	18.92	18.92		
15	16QAM	36	20	18.97	18.99	18.77		
15	16QAM	36	39	18.88	18.93	18.81	20	0
15	16QAM	75	0	18.69	18.97	18.83		
15	64QAM	1	0	18.79	19.26	19.27		
15	64QAM	1	37	18.91	19.02	19.11	20	0
15	64QAM	1	74	18.79	19.15	19.06		
15	64QAM	36	0	18.75	18.77	18.81		
15	64QAM	36	20	18.97	18.76	18.83	19	1
15	64QAM	36	39	18.71	19.00	18.87		



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15	64QAM	75	0	18.99	18.93	18.72		
15	256QAM	1	0	15.93	16.01	16.01		
15	256QAM	1	37	16.33	16.28	16.29	17	0
15	256QAM	1	74	16.07	16.22	16.18		
15	256QAM	36	0	16.28	16.23	16.22		
15	256QAM	36	20	16.28	16.39	16.30	17	1
15	256QAM	36	39	16.32	16.42	16.36		
15	256QAM	75	0	16.17	16.35	16.30		
Channel				18650	18900	19150	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	QPSK	1	0	18.70	18.85	19.17		
10	QPSK	1	25	18.90	19.11	18.97	20	0
10	QPSK	1	49	18.77	19.01	19.16		
10	QPSK	25	0	18.91	18.83	19.08		
10	QPSK	25	12	19.15	19.04	19.17	20	0
10	QPSK	25	25	18.91	19.10	19.23		
10	QPSK	50	0	18.89	18.92	18.84		
10	16QAM	1	0	18.78	19.29	19.20		
10	16QAM	1	25	19.04	19.26	19.35	20	0
10	16QAM	1	49	19.07	19.23	19.14		
10	16QAM	25	0	18.70	18.88	18.85		
10	16QAM	25	12	18.84	19.04	19.09	20	0
10	16QAM	25	25	18.83	19.09	19.06		
10	16QAM	50	0	18.87	18.85	18.78		
10	64QAM	1	0	18.70	19.16	18.99		
10	64QAM	1	25	18.95	19.05	19.11	20	0
10	64QAM	1	49	19.01	19.03	18.97		
10	64QAM	25	0	18.62	18.83	18.83		
10	64QAM	25	12	18.88	18.82	18.93	19	1
10	64QAM	25	25	18.86	18.91	18.83		
10	64QAM	50	0	18.74	18.77	18.81		
10	256QAM	1	0	15.95	15.96	16.06		
10	256QAM	1	25	16.34	16.28	16.30	17	0
10	256QAM	1	49	16.07	16.21	16.14		
10	256QAM	25	0	16.27	16.20	16.21		
10	256QAM	25	12	16.31	16.41	16.27	17	1
10	256QAM	25	25	16.36	16.40	16.33		
10	256QAM	50	0	16.19	16.36	16.30		
Channel				18625	18900	19175	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	QPSK	1	0	18.88	18.98	18.94		
5	QPSK	1	12	18.68	19.03	18.91	20	0
5	QPSK	1	24	18.70	18.93	18.90		
5	QPSK	12	0	18.89	18.85	18.97		
5	QPSK	12	7	18.87	18.93	18.94	20	0
5	QPSK	12	13	19.04	19.04	19.27		
5	QPSK	25	0	18.80	18.97	18.89		
5	16QAM	1	0	19.02	19.14	19.36		
5	16QAM	1	12	19.03	19.25	19.17	20	0
5	16QAM	1	24	19.12	19.14	19.18		
5	16QAM	12	0	18.81	18.95	18.95		
5	16QAM	12	7	18.84	18.96	18.92	20	0
5	16QAM	12	13	18.76	18.97	18.92		
5	16QAM	25	0	18.81	18.76	18.86		
5	64QAM	1	0	18.79	19.20	18.99	20	0
5	64QAM	1	12	19.07	19.11	18.99		



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5	64QAM	1	24	18.86	19.20	19.13		
5	64QAM	12	0	18.67	18.97	18.83	19	1
5	64QAM	12	7	18.74	18.90	18.93		
5	64QAM	12	13	18.78	18.94	18.85		
5	64QAM	25	0	18.74	18.95	18.95		
5	256QAM	1	0	15.99	15.93	16.07	17	0
5	256QAM	1	12	16.37	16.27	16.34		
5	256QAM	1	24	16.07	16.17	16.12		
5	256QAM	12	0	16.30	16.23	16.19	17	1
5	256QAM	12	7	16.35	16.44	16.22		
5	256QAM	12	13	16.33	16.44	16.34		
5	256QAM	25	0	16.19	16.35	16.31		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.63	19.12	18.98	20	0
3	QPSK	1	8	18.70	18.87	18.83		
3	QPSK	1	14	18.66	19.10	18.85		
3	QPSK	8	0	18.75	19.02	19.07	20	0
3	QPSK	8	4	19.06	18.93	19.14		
3	QPSK	8	7	19.03	18.99	19.16		
3	QPSK	15	0	19.00	19.03	18.99		
3	16QAM	1	0	19.06	19.16	19.06	20	0
3	16QAM	1	8	18.97	19.20	19.31		
3	16QAM	1	14	19.04	19.07	19.23		
3	16QAM	8	0	18.74	18.94	18.96	20	0
3	16QAM	8	4	18.86	18.87	19.06		
3	16QAM	8	7	18.93	18.97	18.99		
3	16QAM	15	0	18.95	18.92	18.93		
3	64QAM	1	0	18.65	19.00	19.02	20	0
3	64QAM	1	8	19.00	19.25	19.05		
3	64QAM	1	14	18.94	19.22	18.86		
3	64QAM	8	0	18.81	18.85	18.85	19	1
3	64QAM	8	4	18.81	18.93	18.99		
3	64QAM	8	7	18.84	18.90	18.96		
3	64QAM	15	0	18.68	18.81	18.86		
3	256QAM	1	0	15.95	15.89	16.02	17	0
3	256QAM	1	8	16.40	16.27	16.37		
3	256QAM	1	14	16.03	16.21	16.10		
3	256QAM	8	0	16.29	16.23	16.21	17	1
3	256QAM	8	4	16.36	16.40	16.24		
3	256QAM	8	7	16.31	16.49	16.36		
3	256QAM	15	0	16.21	16.37	16.33		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	18.81	19.11	19.14	20	0
1.4	QPSK	1	3	18.90	18.90	18.97		
1.4	QPSK	1	5	18.83	18.97	19.15		
1.4	QPSK	3	0	18.91	19.10	19.03		
1.4	QPSK	3	1	19.10	19.12	18.95		
1.4	QPSK	3	3	18.93	19.05	19.26		
1.4	QPSK	6	0	18.98	19.02	18.95	20	0
1.4	16QAM	1	0	18.93	19.15	19.21	20	0
1.4	16QAM	1	3	19.09	19.32	19.28		
1.4	16QAM	1	5	19.12	19.17	19.05		
1.4	16QAM	3	0	18.67	18.81	18.83		
1.4	16QAM	3	1	18.77	18.92	19.00		



1.4	16QAM	3	3	18.68	19.09	18.84		
1.4	16QAM	6	0	18.71	18.93	18.77	20	0
1.4	64QAM	1	0	18.89	19.22	18.98	20	0
1.4	64QAM	1	3	19.09	18.94	18.89		
1.4	64QAM	1	5	19.02	19.19	18.93		
1.4	64QAM	3	0	18.67	18.88	18.94		
1.4	64QAM	3	1	18.95	19.00	19.06		
1.4	64QAM	3	3	18.90	18.90	18.82		
1.4	64QAM	6	0	18.93	18.94	18.94	19	1
1.4	256QAM	1	0	15.98	15.93	16.07	17	0
1.4	256QAM	1	3	16.39	16.31	16.34		
1.4	256QAM	1	5	16.04	16.22	16.11		
1.4	256QAM	3	0	16.31	16.22	16.21		
1.4	256QAM	3	1	16.35	16.45	16.28		
1.4	256QAM	3	3	16.30	16.49	16.40		
1.4	256QAM	6	0	16.16	16.37	16.32	17	0



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.42	18.16	18.06	18.8	0
20	QPSK	1	49	18.38	18.17	18.11		
20	QPSK	1	99	18.41	18.23	18.18		
20	QPSK	50	0	18.46	18.33	18.14	18.8	0
20	QPSK	50	24	18.51	18.32	18.17		
20	QPSK	50	50	18.43	18.34	18.24		
20	QPSK	100	0	18.37	18.29	18.10	18.8	0
20	16QAM	1	0	18.70	18.50	18.42		
20	16QAM	1	49	18.71	18.54	18.45		
20	16QAM	1	99	18.75	18.64	18.56	18.8	0
20	16QAM	50	0	18.52	18.34	18.16		
20	16QAM	50	24	18.55	18.37	18.20		
20	16QAM	50	50	18.46	18.39	18.28	18.8	0
20	16QAM	100	0	18.39	18.30	18.13		
20	64QAM	1	0	18.62	18.42	18.25	18.8	0
20	64QAM	1	49	18.61	18.37	18.33		
20	64QAM	1	99	18.65	18.50	18.39		
20	64QAM	50	0	18.55	18.36	18.20	18.8	0
20	64QAM	50	24	18.56	18.38	18.23		
20	64QAM	50	50	18.49	18.39	18.30		
20	64QAM	100	0	18.41	18.31	18.12	16.8	0
20	256QAM	1	0	16.16	16.07	16.11		
20	256QAM	1	49	16.24	16.13	16.05		
20	256QAM	1	99	16.09	16.12	16.13	16.8	0
20	256QAM	50	0	16.19	16.09	15.93		
20	256QAM	50	24	16.14	16.13	16.03		
20	256QAM	50	50	16.16	16.17	15.96	16.8	0
20	256QAM	100	0	16.17	16.14	16.02		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	18.44	18.22	18.13	18.8	0
15	QPSK	1	37	18.41	18.19	18.11		
15	QPSK	1	74	18.48	18.28	18.19		
15	QPSK	36	0	18.52	18.33	18.15	18.8	0
15	QPSK	36	20	18.56	18.36	18.27		
15	QPSK	36	39	18.54	18.35	18.24		
15	QPSK	75	0	18.50	18.31	18.21	18.8	0
15	16QAM	1	0	18.72	18.51	18.37		
15	16QAM	1	37	18.74	18.55	18.43		
15	16QAM	1	74	18.72	18.62	18.52	18.8	0
15	16QAM	36	0	18.56	18.34	18.16		
15	16QAM	36	20	18.57	18.35	18.25		
15	16QAM	36	39	18.56	18.35	18.27	18.8	0
15	16QAM	75	0	18.51	18.33	18.23		
15	64QAM	1	0	18.71	18.45	18.30		
15	64QAM	1	37	18.67	18.47	18.44	18.8	0
15	64QAM	1	74	18.70	18.52	18.42		
15	64QAM	36	0	18.58	18.40	18.22		
15	64QAM	36	20	18.60	18.39	18.31	18.8	0
15	64QAM	36	39	18.58	18.38	18.32		
15	64QAM	75	0	18.52	18.33	18.24		



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15	256QAM	1	0	16.10	16.07	16.04	16.8	0
15	256QAM	1	37	16.19	16.11	15.96		
15	256QAM	1	74	16.07	16.06	16.07		
15	256QAM	36	0	16.13	15.99	15.86	16.8	0
15	256QAM	36	20	16.14	16.08	16.02		
15	256QAM	36	39	16.14	16.15	15.92		
15	256QAM	75	0	16.14	16.06	16.00	Tune-up limit (dBm)	MPR (dB)
Channel				20800	21100	21400		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.23	18.03	17.90	18.8	0
10	QPSK	1	25	18.19	18.01	17.88		
10	QPSK	1	49	18.24	18.07	17.96		
10	QPSK	25	0	18.32	18.13	17.93	18.8	0
10	QPSK	25	12	18.31	18.16	17.97		
10	QPSK	25	25	18.32	18.14	18.04		
10	QPSK	50	0	18.27	18.09	17.90	18.8	0
10	16QAM	1	0	18.59	18.41	18.30		
10	16QAM	1	25	18.63	18.40	18.28		
10	16QAM	1	49	18.65	18.47	18.36	18.8	0
10	16QAM	25	0	18.32	18.12	17.92		
10	16QAM	25	12	18.35	18.14	17.96		
10	16QAM	25	25	18.33	18.12	18.04	18.8	0
10	16QAM	50	0	18.27	18.09	17.91		
10	64QAM	1	0	18.49	18.30	18.11		
10	64QAM	1	25	18.50	18.30	18.23	18.8	0
10	64QAM	1	49	18.55	18.36	18.23		
10	64QAM	25	0	18.33	18.14	17.98		
10	64QAM	25	12	18.38	18.20	18.01	18.8	0
10	64QAM	25	25	18.35	18.17	18.07		
10	64QAM	50	0	18.31	18.14	17.92		
10	256QAM	1	0	16.15	15.93	15.96	16.8	0
10	256QAM	1	25	16.19	16.03	15.97		
10	256QAM	1	49	16.06	16.01	15.99		
10	256QAM	25	0	16.07	16.01	15.87	16.8	0
10	256QAM	25	12	16.07	16.12	15.97		
10	256QAM	25	25	16.05	16.11	15.82		
10	256QAM	50	0	15.99	16.14	15.89	Tune-up limit (dBm)	MPR (dB)
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.27	18.06	17.97	18.8	0
5	QPSK	1	12	18.32	18.08	18.01		
5	QPSK	1	24	18.28	18.10	17.99		
5	QPSK	12	0	18.32	18.16	18.03	18.8	0
5	QPSK	12	7	18.39	18.18	18.11		
5	QPSK	12	13	18.35	18.15	18.01		
5	QPSK	25	0	18.36	18.15	18.05	18.8	0
5	16QAM	1	0	18.62	18.42	18.29		
5	16QAM	1	12	18.63	18.41	18.32		
5	16QAM	1	24	18.61	18.47	18.29	18.8	0
5	16QAM	12	0	18.38	18.16	18.07		
5	16QAM	12	7	18.43	18.21	18.10		
5	16QAM	12	13	18.38	18.19	18.09	18.8	0
5	16QAM	25	0	18.37	18.16	18.05		
5	64QAM	1	0	18.59	18.39	18.29		
5	64QAM	1	12	18.58	18.39	18.25	18.8	0
5	64QAM	1	24	18.56	18.38	18.23		



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5	64QAM	12	0	18.40	18.23	18.09	18.8	0
5	64QAM	12	7	18.45	18.27	18.15		
5	64QAM	12	13	18.39	18.23	18.08		
5	64QAM	25	0	18.36	18.18	18.04		
5	256QAM	1	0	16.09	15.88	15.93	16.8	0
5	256QAM	1	12	16.14	15.95	15.95		
5	256QAM	1	24	16.05	15.93	15.91		
5	256QAM	12	0	16.02	16.01	15.81	16.8	0
5	256QAM	12	7	16.05	16.08	15.87		
5	256QAM	12	13	15.96	16.08	15.81		
5	256QAM	25	0	15.95	16.11	15.89		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	19.01	19.13	19.07		
20	QPSK	1	49	18.79	18.96	18.77	20	0
20	QPSK	1	99	18.78	18.64	18.69		
20	QPSK	50	0	19.02	18.90	18.71		
20	QPSK	50	24	18.98	19.07	18.93	20	0
20	QPSK	50	50	18.88	18.92	18.81		
20	QPSK	100	0	18.96	19.05	18.90		
20	16QAM	1	0	18.81	18.47	18.96	20	0
20	16QAM	1	49	18.72	18.94	18.95		
20	16QAM	1	99	18.89	18.78	18.74		
20	16QAM	50	0	18.95	18.98	18.86	20	0
20	16QAM	50	24	18.93	18.71	18.74		
20	16QAM	50	50	18.96	18.83	18.90		
20	16QAM	100	0	18.81	18.77	18.83	20	0
20	64QAM	1	0	18.63	18.90	18.81		
20	64QAM	1	49	18.73	18.92	18.92		
20	64QAM	1	99	18.63	18.76	18.65	19	1
20	64QAM	50	0	18.55	18.69	18.47		
20	64QAM	50	24	18.66	18.85	18.52		
20	64QAM	50	50	18.58	18.79	18.65	17	3
20	64QAM	100	0	18.61	18.56	18.68		
20	256QAM	1	0	16.09	16.25	16.05		
20	256QAM	1	49	16.13	16.02	16.15	17	3
20	256QAM	1	99	16.19	16.08	16.22		
20	256QAM	50	0	16.21	16.16	16.12		
20	256QAM	50	24	16.23	16.19	16.33	17	3
20	256QAM	50	50	16.01	16.09	16.06		
20	256QAM	100	0	16.12	16.08	16.13		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	18.71	19.12	18.90		
15	QPSK	1	37	18.59	18.91	18.95	20	0
15	QPSK	1	74	18.91	18.55	18.71		
15	QPSK	36	0	18.98	18.85	18.97	20	0
15	QPSK	36	20	18.77	18.85	19.01		
15	QPSK	36	39	18.76	18.93	18.95		
15	QPSK	75	0	18.86	18.77	18.77	20	0
15	16QAM	1	0	18.86	18.70	18.90		
15	16QAM	1	37	18.69	18.80	19.02		
15	16QAM	1	74	18.74	18.80	18.82	20	0
15	16QAM	36	0	18.85	18.94	18.97		
15	16QAM	36	20	18.77	18.61	18.89		
15	16QAM	36	39	18.88	18.92	18.77	20	0
15	16QAM	75	0	18.67	18.85	18.80		
15	64QAM	1	0	18.50	18.87	18.92		
15	64QAM	1	37	18.79	18.91	18.84	20	0
15	64QAM	1	74	18.61	18.67	18.83		
15	64QAM	36	0	18.66	18.71	18.71		
15	64QAM	36	20	18.49	18.80	18.66	19	1
15	64QAM	36	39	18.50	18.86	18.58		
15	64QAM	75	0	18.63	18.67	18.62		



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15	256QAM	1	0	16.17	16.18	16.05	17	3
15	256QAM	1	37	16.01	16.11	16.00		
15	256QAM	1	74	16.20	16.18	16.22		
15	256QAM	36	0	16.14	16.03	16.27	17	3
15	256QAM	36	20	16.20	16.18	16.25		
15	256QAM	36	39	16.02	16.13	16.08		
15	256QAM	75	0	16.12	16.24	16.17	Tune-up limit (dBm)	MPR (dB)
Channel				26090	26340	26640		
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	18.74	18.97	19.02	20	0
10	QPSK	1	25	18.83	18.95	18.76		
10	QPSK	1	49	18.84	18.58	18.83		
10	QPSK	25	0	18.94	18.79	18.96	20	0
10	QPSK	25	12	19.02	18.95	18.81		
10	QPSK	25	25	18.89	18.86	18.85		
10	QPSK	50	0	19.08	18.90	18.93	20	0
10	16QAM	1	0	18.91	18.70	18.76		
10	16QAM	1	25	18.83	18.82	18.93		
10	16QAM	1	49	18.93	18.77	18.71	20	0
10	16QAM	25	0	18.89	19.04	18.80		
10	16QAM	25	12	18.72	18.81	18.94		
10	16QAM	25	25	18.76	18.91	19.04	20	0
10	16QAM	50	0	18.87	18.80	18.74		
10	64QAM	1	0	18.76	19.03	18.93		
10	64QAM	1	25	18.88	19.00	18.87	20	0
10	64QAM	1	49	18.78	18.87	18.92		
10	64QAM	25	0	18.49	18.73	18.64		
10	64QAM	25	12	18.66	18.72	18.67	19	1
10	64QAM	25	25	18.32	18.73	18.78		
10	64QAM	50	0	18.45	18.74	18.62		
10	256QAM	1	0	16.23	16.26	16.06	17	3
10	256QAM	1	25	16.13	16.14	16.08		
10	256QAM	1	49	16.09	16.27	16.11		
10	256QAM	25	0	16.16	16.20	16.26	17	3
10	256QAM	25	12	16.25	16.24	16.21		
10	256QAM	25	25	16.16	16.15	16.22		
10	256QAM	50	0	16.14	16.19	16.09	Tune-up limit (dBm)	MPR (dB)
Channel				26065	26340	26665		
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	18.82	18.81	18.85	20	0
5	QPSK	1	12	18.72	18.99	18.99		
5	QPSK	1	24	18.87	18.65	18.72		
5	QPSK	12	0	18.84	18.87	18.92	20	0
5	QPSK	12	7	19.02	19.01	18.72		
5	QPSK	12	13	18.71	18.84	18.72		
5	QPSK	25	0	18.90	18.83	18.81	20	0
5	16QAM	1	0	18.87	18.56	19.02		
5	16QAM	1	12	18.78	18.85	18.91		
5	16QAM	1	24	18.86	18.72	18.77	20	0
5	16QAM	12	0	18.64	18.99	18.77		
5	16QAM	12	7	18.84	18.67	18.87		
5	16QAM	12	13	18.98	18.81	18.99	20	0
5	16QAM	25	0	18.64	19.01	18.79		
5	64QAM	1	0	18.46	18.82	18.79		
5	64QAM	1	12	18.76	18.79	18.67	20	0
5	64QAM	1	24	18.63	18.71	18.73		



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5	64QAM	12	0	18.61	18.71	18.67	19	1
5	64QAM	12	7	18.54	18.84	18.67		
5	64QAM	12	13	18.51	18.83	18.68		
5	64QAM	25	0	18.48	18.69	18.39		
5	256QAM	1	0	16.11	16.15	16.04	17	3
5	256QAM	1	12	16.08	16.17	16.07		
5	256QAM	1	24	16.24	16.15	16.15		
5	256QAM	12	0	16.27	16.09	16.25	17	3
5	256QAM	12	7	16.24	16.22	16.26		
5	256QAM	12	13	16.03	16.09	16.25		
5	256QAM	25	0	16.28	16.25	16.16		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	18.84	18.86	18.93	20	0
3	QPSK	1	8	18.65	18.84	19.02		
3	QPSK	1	14	18.89	18.75	18.75		
3	QPSK	8	0	18.94	18.81	18.82	20	0
3	QPSK	8	4	18.75	18.77	18.97		
3	QPSK	8	7	18.94	18.85	18.87		
3	QPSK	15	0	18.93	18.87	18.82		
3	16QAM	1	0	18.74	18.75	18.82	20	0
3	16QAM	1	8	18.87	19.04	18.87		
3	16QAM	1	14	18.80	18.86	18.72		
3	16QAM	8	0	18.85	18.94	18.80	20	0
3	16QAM	8	4	18.72	18.71	18.80		
3	16QAM	8	7	18.85	18.92	19.04		
3	16QAM	15	0	18.87	19.01	18.73		
3	64QAM	1	0	18.53	18.87	18.71	20	0
3	64QAM	1	8	18.74	18.84	18.93		
3	64QAM	1	14	18.75	18.57	18.86		
3	64QAM	8	0	18.58	18.53	18.51	19	1
3	64QAM	8	4	18.73	18.89	18.61		
3	64QAM	8	7	18.59	18.87	18.77		
3	64QAM	15	0	18.54	18.73	18.62		
3	256QAM	1	0	16.20	16.27	16.21	17	3
3	256QAM	1	8	16.15	16.11	16.15		
3	256QAM	1	14	16.16	16.09	16.16		
3	256QAM	8	0	16.11	16.14	16.24	17	3
3	256QAM	8	4	16.29	16.09	16.15		
3	256QAM	8	7	16.03	16.19	16.18		
3	256QAM	15	0	16.19	16.11	16.06		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	18.72	18.87	18.91	20	0
1.4	QPSK	1	3	18.86	18.73	18.82		
1.4	QPSK	1	5	18.72	18.77	18.78		
1.4	QPSK	3	0	18.96	18.83	18.68		
1.4	QPSK	3	1	18.79	18.88	18.84		
1.4	QPSK	3	3	18.92	18.98	18.75	20	0
1.4	QPSK	6	0	18.98	19.07	18.91		
1.4	16QAM	1	0	18.81	18.53	18.90	20	0
1.4	16QAM	1	3	18.74	19.01	18.94		
1.4	16QAM	1	5	18.77	18.72	18.94		
1.4	16QAM	3	0	18.73	19.04	19.06		
1.4	16QAM	3	1	18.88	18.65	18.73		
1.4	16QAM	3	3	18.81	18.89	18.84		



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1.4	16QAM	6	0	18.62	18.81	18.89	20	0
1.4	64QAM	1	0	18.63	19.00	18.72	20	0
1.4	64QAM	1	3	18.63	18.87	18.84		
1.4	64QAM	1	5	18.80	18.64	18.78		
1.4	64QAM	3	0	18.53	18.55	18.55		
1.4	64QAM	3	1	18.57	18.71	18.42		
1.4	64QAM	3	3	18.56	18.67	18.60		
1.4	64QAM	6	0	18.46	18.78	18.65	19	1
1.4	256QAM	1	0	16.18	16.16	16.16	17	3
1.4	256QAM	1	3	16.09	16.13	16.18		
1.4	256QAM	1	5	16.07	16.13	16.07		
1.4	256QAM	3	0	16.22	16.02	16.25		
1.4	256QAM	3	1	16.11	16.18	16.25		
1.4	256QAM	3	3	16.07	16.24	16.07		
1.4	256QAM	6	0	16.13	16.16	16.07	17	3

<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		20.30		20.8	0
10	QPSK	1	25		20.25			
10	QPSK	1	49		20.20			
10	QPSK	25	0		20.23		20.8	0
10	QPSK	25	12		20.31			
10	QPSK	25	25		20.21			
10	QPSK	50	0		20.23		20.8	0
10	16QAM	1	0		20.63			
10	16QAM	1	25		20.65			
10	16QAM	1	49		20.57		19.8	1
10	16QAM	25	0		19.25			
10	16QAM	25	12		19.33			
10	16QAM	25	25		19.22		19.8	1
10	16QAM	50	0		19.25			
10	64QAM	1	0		19.51			
10	64QAM	1	25		19.57		19.8	1
10	64QAM	1	49		19.45			
10	64QAM	25	0		18.28			
10	64QAM	25	12		18.38		18.8	2
10	64QAM	25	25		18.26			
10	64QAM	50	0		18.30			
10	256QAM	1	0		16.01		16.8	1
10	256QAM	1	25		16.00			
10	256QAM	1	49		16.00			
10	256QAM	25	0		15.98		16.8	2
10	256QAM	25	12		16.00			
10	256QAM	25	25		15.95			
10	256QAM	50	0		15.99			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	20.25	20.18	20.30	20.8	0
5	QPSK	1	12	20.32	20.35	20.36		
5	QPSK	1	24	20.26	20.17	20.21		
5	QPSK	12	0	20.36	20.32	20.36	20.8	0
5	QPSK	12	7	20.44	20.38	20.38		
5	QPSK	12	13	20.38	20.35	20.36		
5	QPSK	25	0	20.40	20.33	20.36	20.8	0
5	16QAM	1	0	20.56	20.52	20.60		
5	16QAM	1	12	20.63	20.32	20.64		
5	16QAM	1	24	20.56	20.50	20.54	19.8	1
5	16QAM	12	0	19.42	19.38	19.41		
5	16QAM	12	7	19.47	19.39	19.44		
5	16QAM	12	13	19.41	19.39	19.35	19.8	1
5	16QAM	25	0	19.41	19.33	19.38		
5	64QAM	1	0	19.52	19.45	19.54		
5	64QAM	1	12	19.53	19.57	19.56	19.8	1
5	64QAM	1	24	19.50	19.44	19.51		
5	64QAM	12	0	18.42	18.38	18.42		
5	64QAM	12	7	18.49	18.48	18.47	18.8	2
5	64QAM	12	13	18.43	18.41	18.45		
5	64QAM	25	0	18.40	18.37	18.36		



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5	256QAM	1	0	15.91	15.99	15.97	16.8	1
5	256QAM	1	12	15.97	15.96	15.98		
5	256QAM	1	24	15.93	15.94	15.94		
5	256QAM	12	0	15.95	15.90	15.96	16.8	2
5	256QAM	12	7	15.90	15.91	15.91		
5	256QAM	12	13	15.86	15.85	15.88		
5	256QAM	25	0	15.91	15.95	15.93		

LAT Reduced Power Mode for Sensor On<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	18.13	18.18	18.17	18.8	0
20	QPSK	1	49	17.98	18.06	18.10		
20	QPSK	1	99	17.92	18.04	18.07		
20	QPSK	50	0	17.98	18.03	18.10	18.8	0
20	QPSK	50	24	18.14	18.17	18.15		
20	QPSK	50	50	18.11	18.13	18.14		
20	QPSK	100	0	18.05	18.13	18.10	18.8	0
20	16QAM	1	0	18.12	18.10	18.12		
20	16QAM	1	49	18.17	18.16	18.14		
20	16QAM	1	99	18.05	18.05	18.14	18.8	0
20	16QAM	50	0	17.99	18.08	18.10		
20	16QAM	50	24	18.11	18.13	18.08		
20	16QAM	50	50	18.06	18.17	18.08	18.8	0
20	16QAM	100	0	18.06	18.08	18.12		
20	64QAM	1	0	18.10	18.17	18.13		
20	64QAM	1	49	18.02	18.15	18.07	18.8	0
20	64QAM	1	99	17.88	18.09	18.10		
20	64QAM	50	0	17.98	18.04	18.09		
20	64QAM	50	24	18.12	18.14	18.14	18.8	0
20	64QAM	50	50	18.06	18.14	18.09		
20	64QAM	100	0	18.05	18.09	18.10		
20	256QAM	1	0	17.95	18.04	18.03	18.8	0
20	256QAM	1	49	17.86	17.87	17.98		
20	256QAM	1	99	17.76	17.86	18.01		
20	256QAM	50	0	17.94	18.01	18.03	18.8	0
20	256QAM	50	24	17.98	18.07	18.01		
20	256QAM	50	50	18.00	17.95	18.01		
20	256QAM	100	0	18.00	17.93	17.93		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	17.87	18.10	18.13	18.8	0
15	QPSK	1	37	17.98	18.08	18.10		
15	QPSK	1	74	17.88	18.04	18.10		
15	QPSK	36	0	17.76	17.90	17.89	18.8	0
15	QPSK	36	20	17.95	17.96	17.96		
15	QPSK	36	39	17.90	18.02	18.03		
15	QPSK	75	0	17.87	17.94	17.94	18.8	0
15	16QAM	1	0	17.97	17.92	18.05		
15	16QAM	1	37	18.12	18.10	18.10		
15	16QAM	1	74	17.94	17.99	18.08	18.8	0
15	16QAM	36	0	17.78	17.90	17.92		
15	16QAM	36	20	17.94	17.98	17.96		
15	16QAM	36	39	17.94	18.05	18.05	18.8	0
15	16QAM	75	0	17.91	17.92	17.95		
15	64QAM	1	0	17.88	18.12	18.08		
15	64QAM	1	37	18.06	18.14	18.07	18.8	0
15	64QAM	1	74	17.91	17.91	18.14		
15	64QAM	36	0	17.81	17.92	17.92		
15	64QAM	36	20	17.91	17.97	17.99	18.8	0
15	64QAM	36	39	17.89	18.01	18.04		



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15	64QAM	75	0	17.92	17.94	17.94		
15	256QAM	1	0	17.86	18.02	17.95	18.8	0
15	256QAM	1	37	17.79	17.83	17.89		
15	256QAM	1	74	17.71	17.76	17.95		
15	256QAM	36	0	17.92	17.96	17.97	18.8	0
15	256QAM	36	20	17.93	17.97	17.94		
15	256QAM	36	39	17.95	17.85	17.98		
15	256QAM	75	0	17.93	17.86	17.91		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	17.49	17.59	17.97	18.8	0
10	QPSK	1	25	17.83	17.92	17.96		
10	QPSK	1	49	17.58	17.69	17.94		
10	QPSK	25	0	17.82	17.92	17.93	18.8	0
10	QPSK	25	12	17.96	18.02	18.11		
10	QPSK	25	25	17.82	17.97	17.97		
10	QPSK	50	0	17.86	17.90	17.98		
10	16QAM	1	0	17.87	18.03	18.02	18.8	0
10	16QAM	1	25	18.04	18.15	18.13		
10	16QAM	1	49	17.75	17.88	18.10		
10	16QAM	25	0	17.80	17.91	17.95	18.8	0
10	16QAM	25	12	17.97	17.99	18.11		
10	16QAM	25	25	17.84	17.97	18.02		
10	16QAM	50	0	17.91	17.92	18.02		
10	64QAM	1	0	17.91	17.96	18.03	18.8	0
10	64QAM	1	25	18.05	18.00	17.99		
10	64QAM	1	49	17.73	17.94	18.15		
10	64QAM	25	0	17.83	17.96	17.90	18.8	0
10	64QAM	25	12	17.80	17.85	17.93		
10	64QAM	25	25	17.83	17.97	17.98		
10	64QAM	50	0	17.87	17.92	18.04		
10	256QAM	1	0	17.76	17.97	17.93	18.8	0
10	256QAM	1	25	17.78	17.76	17.84		
10	256QAM	1	49	17.62	17.69	17.92		
10	256QAM	25	0	17.88	17.90	17.88	18.8	0
10	256QAM	25	12	17.84	17.97	17.89		
10	256QAM	25	25	17.89	17.77	17.88		
10	256QAM	50	0	17.83	17.79	17.88		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	17.83	17.90	17.92	18.8	0
5	QPSK	1	12	17.87	18.00	18.04		
5	QPSK	1	24	17.74	17.87	17.90		
5	QPSK	12	0	17.96	18.03	18.07	18.8	0
5	QPSK	12	7	18.00	18.03	18.09		
5	QPSK	12	13	17.89	18.01	18.07		
5	QPSK	25	0	17.91	17.97	17.99		
5	16QAM	1	0	17.97	18.00	18.13	18.8	0
5	16QAM	1	12	18.01	18.12	18.09		
5	16QAM	1	24	17.89	18.03	18.05		
5	16QAM	12	0	18.00	18.09	18.10	18.8	0
5	16QAM	12	7	17.98	18.07	18.08		
5	16QAM	12	13	17.93	18.01	18.09		
5	16QAM	25	0	17.95	18.05	18.07		
5	64QAM	1	0	17.91	17.93	18.03	18.8	0
5	64QAM	1	12	17.99	18.01	18.07		



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5	64QAM	1	24	17.81	17.89	18.01		
5	64QAM	12	0	17.99	18.05	18.07	18.8	0
5	64QAM	12	7	17.98	18.08	18.11		
5	64QAM	12	13	17.93	18.03	18.03		
5	64QAM	25	0	17.96	18.04	18.05		
5	256QAM	1	0	17.67	17.95	17.83	18.8	0
5	256QAM	1	12	17.76	17.72	17.77		
5	256QAM	1	24	17.61	17.67	17.87		
5	256QAM	12	0	17.79	17.85	17.83	18.8	0
5	256QAM	12	7	17.75	17.89	17.80		
5	256QAM	12	13	17.84	17.68	17.84		
5	256QAM	25	0	17.75	17.73	17.88		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	17.92	17.96	18.02	18.8	0
3	QPSK	1	8	17.92	18.05	18.04		
3	QPSK	1	14	17.77	17.94	17.93		
3	QPSK	8	0	17.95	18.04	18.16	18.8	0
3	QPSK	8	4	17.98	18.04	18.12		
3	QPSK	8	7	17.89	18.06	18.07		
3	QPSK	15	0	17.95	18.02	18.06		
3	16QAM	1	0	18.01	18.06	18.12	18.8	0
3	16QAM	1	8	18.07	18.09	18.06		
3	16QAM	1	14	17.91	18.07	18.10		
3	16QAM	8	0	17.86	17.88	17.98	18.8	0
3	16QAM	8	4	17.82	17.92	18.01		
3	16QAM	8	7	17.75	17.91	17.91		
3	16QAM	15	0	17.78	17.85	17.95		
3	64QAM	1	0	17.95	18.04	18.09	18.8	0
3	64QAM	1	8	18.01	18.14	18.06		
3	64QAM	1	14	17.90	18.00	18.02		
3	64QAM	8	0	17.85	17.95	18.01	18.8	0
3	64QAM	8	4	17.87	17.97	18.02		
3	64QAM	8	7	17.80	17.92	17.93		
3	64QAM	15	0	17.80	17.87	17.92		
3	256QAM	1	0	17.67	17.85	17.73	18.8	0
3	256QAM	1	8	17.74	17.71	17.75		
3	256QAM	1	14	17.60	17.61	17.78		
3	256QAM	8	0	17.71	17.84	17.75	18.8	0
3	256QAM	8	4	17.67	17.80	17.77		
3	256QAM	8	7	17.84	17.68	17.84		
3	256QAM	15	0	17.75	17.68	17.88		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	17.80	17.82	17.94	18.8	0
1.4	QPSK	1	3	17.83	17.91	17.97		
1.4	QPSK	1	5	17.75	17.87	17.91		
1.4	QPSK	3	0	17.82	17.92	17.95		
1.4	QPSK	3	1	17.86	17.91	17.96		
1.4	QPSK	3	3	17.81	17.90	17.92		
1.4	QPSK	6	0	17.87	18.00	18.03	18.8	0
1.4	16QAM	1	0	17.94	18.05	18.04	18.8	0
1.4	16QAM	1	3	18.00	18.08	18.11		
1.4	16QAM	1	5	17.92	18.00	17.98		
1.4	16QAM	3	0	17.73	17.80	17.85		
1.4	16QAM	3	1	17.75	17.83	17.88		



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1.4	16QAM	3	3	17.70	17.80	17.82		
1.4	16QAM	6	0	17.96	18.06	18.09	18.8	0
1.4	64QAM	1	0	17.89	17.94	18.00	18.8	0
1.4	64QAM	1	3	17.92	17.97	18.12		
1.4	64QAM	1	5	17.80	17.87	17.98		
1.4	64QAM	3	0	17.88	17.96	17.94		
1.4	64QAM	3	1	17.90	18.04	18.01		
1.4	64QAM	3	3	17.80	17.95	17.95		
1.4	64QAM	6	0	17.93	18.02	18.06	18.8	0
1.4	256QAM	1	0	17.59	17.78	17.64	18.8	0
1.4	256QAM	1	3	17.68	17.68	17.67		
1.4	256QAM	1	5	17.58	17.51	17.77		
1.4	256QAM	3	0	17.62	17.82	17.67		
1.4	256QAM	3	1	17.64	17.78	17.67		
1.4	256QAM	3	3	17.74	17.62	17.75		
1.4	256QAM	6	0	17.69	17.68	17.79	18.8	0



<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	18.91	19.03	19.02	19.8	0
20	QPSK	1	49	18.76	18.92	19.02		
20	QPSK	1	99	18.67	18.69	18.68		
20	QPSK	50	0	18.78	18.95	18.94	19.8	0
20	QPSK	50	24	18.95	19.01	19.00		
20	QPSK	50	50	18.84	18.98	18.97		
20	QPSK	100	0	18.89	18.98	18.94	19.8	0
20	16QAM	1	0	18.72	18.84	18.96		
20	16QAM	1	49	18.97	18.90	18.93		
20	16QAM	1	99	18.79	18.83	18.89	19.8	0
20	16QAM	50	0	18.69	18.84	18.89		
20	16QAM	50	24	18.85	18.95	18.91		
20	16QAM	50	50	18.79	18.88	18.89	19.8	0
20	16QAM	100	0	18.77	18.81	18.90		
20	64QAM	1	0	18.79	18.70	18.77	19.8	0
20	64QAM	1	49	18.95	18.92	18.96		
20	64QAM	1	99	18.84	18.71	18.70		
20	64QAM	50	0	18.74	18.88	18.88	19.8	0
20	64QAM	50	24	18.92	18.95	18.93		
20	64QAM	50	50	18.81	18.92	18.89		
20	64QAM	100	0	18.82	18.85	18.93	18.8	0
20	256QAM	1	0	17.71	17.83	17.82		
20	256QAM	1	49	17.56	17.72	17.82		
20	256QAM	1	99	17.47	17.49	17.48	18.8	0
20	256QAM	50	0	17.58	17.75	17.74		
20	256QAM	50	24	17.75	17.81	17.80		
20	256QAM	50	50	17.64	17.78	17.77	18.8	0
20	256QAM	100	0	17.69	17.78	17.74		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.51	18.68	18.70	19.8	0
15	QPSK	1	37	18.68	18.80	18.84		
15	QPSK	1	74	18.59	18.69	18.67		
15	QPSK	36	0	18.66	18.83	18.83	19.8	0
15	QPSK	36	20	18.84	18.90	18.91		
15	QPSK	36	39	18.76	18.90	18.90		
15	QPSK	75	0	18.78	18.85	18.82	19.8	0
15	16QAM	1	0	18.90	18.93	18.99		
15	16QAM	1	37	18.94	18.97	18.98		
15	16QAM	1	74	18.93	18.91	18.96	19.8	0
15	16QAM	36	0	18.68	18.86	18.88		
15	16QAM	36	20	18.87	18.91	18.91		
15	16QAM	36	39	18.82	18.93	18.89	19.8	0
15	16QAM	75	0	18.80	18.87	18.89		
15	64QAM	1	0	18.85	18.84	18.90		
15	64QAM	1	37	18.99	19.00	18.99	19.8	0
15	64QAM	1	74	18.84	18.86	18.87		
15	64QAM	36	0	18.76	18.92	18.92		
15	64QAM	36	20	18.86	18.92	18.95	19.8	0
15	64QAM	36	39	18.84	18.98	18.93		
15	64QAM	75	0	18.79	18.90	18.88		



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15	256QAM	1	0	17.62	17.81	17.77	18.8	0
15	256QAM	1	37	17.51	17.69	17.77		
15	256QAM	1	74	17.40	17.49	17.42		
15	256QAM	36	0	17.50	17.74	17.65	18.8	0
15	256QAM	36	20	17.70	17.76	17.80		
15	256QAM	36	39	17.56	17.74	17.76		
15	256QAM	75	0	17.60	17.76	17.70	Tune-up limit (dBm)	MPR (dB)
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	18.42	18.52	18.60	19.8	0
10	QPSK	1	25	18.71	18.88	18.85		
10	QPSK	1	49	18.37	18.49	18.56		
10	QPSK	25	0	18.48	18.65	18.66	19.8	0
10	QPSK	25	12	18.64	18.71	18.79		
10	QPSK	25	25	18.50	18.65	18.68		
10	QPSK	50	0	18.54	18.61	18.69	19.8	0
10	16QAM	1	0	18.62	18.78	18.81		
10	16QAM	1	25	18.88	18.96	18.97		
10	16QAM	1	49	18.61	18.70	18.71	19.8	0
10	16QAM	25	0	18.48	18.62	18.69		
10	16QAM	25	12	18.66	18.75	18.82		
10	16QAM	25	25	18.51	18.68	18.68	19.8	0
10	16QAM	50	0	18.57	18.65	18.75		
10	64QAM	1	0	18.51	18.60	18.56		
10	64QAM	1	25	18.80	18.91	18.95	19.8	0
10	64QAM	1	49	18.48	18.66	18.54		
10	64QAM	25	0	18.48	18.71	18.70		
10	64QAM	25	12	18.70	18.82	18.89	19.8	0
10	64QAM	25	25	18.57	18.73	18.74		
10	64QAM	50	0	18.60	18.67	18.75		
10	256QAM	1	0	17.60	17.74	17.77	18.8	0
10	256QAM	1	25	17.50	17.62	17.69		
10	256QAM	1	49	17.40	17.48	17.34		
10	256QAM	25	0	17.47	17.69	17.65	18.8	0
10	256QAM	25	12	17.61	17.74	17.77		
10	256QAM	25	25	17.55	17.64	17.67		
10	256QAM	50	0	17.51	17.67	17.63	Tune-up limit (dBm)	MPR (dB)
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.68	18.81	18.84	19.8	0
5	QPSK	1	12	18.74	18.88	18.92		
5	QPSK	1	24	18.58	18.79	18.76		
5	QPSK	12	0	18.62	18.79	18.75	19.8	0
5	QPSK	12	7	18.65	18.74	18.73		
5	QPSK	12	13	18.54	18.72	18.74		
5	QPSK	25	0	18.58	18.71	18.70	19.8	0
5	16QAM	1	0	18.86	18.91	18.96		
5	16QAM	1	12	18.88	18.91	18.98		
5	16QAM	1	24	18.79	18.91	18.89	19.8	0
5	16QAM	12	0	18.68	18.81	18.75		
5	16QAM	12	7	18.66	18.82	18.78		
5	16QAM	12	13	18.57	18.79	18.76	19.8	0
5	16QAM	25	0	18.62	18.71	18.76		
5	64QAM	1	0	18.87	18.86	18.90		
5	64QAM	1	12	18.83	18.94	18.93	19.8	0
5	64QAM	1	24	18.68	18.79	18.82		



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5	64QAM	12	0	18.69	18.87	18.85	19.8	0
5	64QAM	12	7	18.69	18.87	18.83		
5	64QAM	12	13	18.61	18.80	18.84		
5	64QAM	25	0	18.64	18.75	18.74		
5	256QAM	1	0	17.57	17.71	17.73	18.8	0
5	256QAM	1	12	17.43	17.56	17.61		
5	256QAM	1	24	17.31	17.43	17.27		
5	256QAM	12	0	17.43	17.61	17.61	18.8	0
5	256QAM	12	7	17.59	17.72	17.74		
5	256QAM	12	13	17.46	17.59	17.59		
5	256QAM	25	0	17.44	17.60	17.63		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	18.57	18.71	18.74	19.8	0
3	QPSK	1	8	18.64	18.78	18.73		
3	QPSK	1	14	18.49	18.68	18.62		
3	QPSK	8	0	18.66	18.75	18.82	19.8	0
3	QPSK	8	4	18.63	18.74	18.82		
3	QPSK	8	7	18.60	18.76	18.79		
3	QPSK	15	0	18.64	18.69	18.76		
3	16QAM	1	0	18.95	18.93	18.99	19.8	0
3	16QAM	1	8	18.97	18.92	18.95		
3	16QAM	1	14	18.83	19.00	18.92		
3	16QAM	8	0	18.74	18.85	18.88	19.8	0
3	16QAM	8	4	18.75	18.82	18.89		
3	16QAM	8	7	18.65	18.80	18.82		
3	16QAM	15	0	18.64	18.81	18.81		
3	64QAM	1	0	18.85	19.00	18.95	19.8	0
3	64QAM	1	8	18.90	18.92	18.96		
3	64QAM	1	14	18.81	18.97	18.90		
3	64QAM	8	0	18.72	18.85	18.89	19.8	0
3	64QAM	8	4	18.74	18.83	18.91		
3	64QAM	8	7	18.70	18.85	18.83		
3	64QAM	15	0	18.69	18.76	18.84		
3	256QAM	1	0	17.51	17.65	17.70	18.8	0
3	256QAM	1	8	17.37	17.55	17.57		
3	256QAM	1	14	17.25	17.34	17.20		
3	256QAM	8	0	17.33	17.55	17.56	18.8	0
3	256QAM	8	4	17.51	17.72	17.73		
3	256QAM	8	7	17.44	17.57	17.52		
3	256QAM	15	0	17.39	17.51	17.62		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	18.65	18.79	18.78	19.8	0
1.4	QPSK	1	3	18.69	18.87	18.85		
1.4	QPSK	1	5	18.63	18.81	18.78		
1.4	QPSK	3	0	18.72	18.76	18.83		
1.4	QPSK	3	1	18.73	18.87	18.83		
1.4	QPSK	3	3	18.70	18.86	18.82	19.8	0
1.4	QPSK	6	0	18.75	18.87	18.91		
1.4	16QAM	1	0	18.84	18.91	18.95	19.8	0
1.4	16QAM	1	3	18.85	18.84	18.99		
1.4	16QAM	1	5	18.78	18.93	18.91		
1.4	16QAM	3	0	18.59	18.71	18.76		
1.4	16QAM	3	1	18.65	18.78	18.80		
1.4	16QAM	3	3	18.57	18.71	18.74		



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1.4	16QAM	6	0	18.61	18.74	18.84	19.8	0
1.4	64QAM	1	0	18.71	18.87	18.97	19.8	0
1.4	64QAM	1	3	18.79	18.96	18.97		
1.4	64QAM	1	5	18.72	18.85	18.92		
1.4	64QAM	3	0	18.72	18.78	18.85		
1.4	64QAM	3	1	18.75	18.91	18.87		
1.4	64QAM	3	3	18.70	18.85	18.83		
1.4	64QAM	6	0	18.58	18.67	18.73	19.8	0
1.4	256QAM	1	0	17.47	17.61	17.68	18.8	0
1.4	256QAM	1	3	17.31	17.47	17.55		
1.4	256QAM	1	5	17.20	17.25	17.11		
1.4	256QAM	3	0	17.25	17.55	17.48		
1.4	256QAM	3	1	17.44	17.72	17.67		
1.4	256QAM	3	3	17.41	17.52	17.51		
1.4	256QAM	6	0	17.38	17.45	17.62	18.8	0



<LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.89	22.91	22.91	23.8	0
10	QPSK	1	25	22.92	22.89	22.93		
10	QPSK	1	49	22.97	22.84	22.95		
10	QPSK	25	0	21.91	21.92	21.95	22.8	1
10	QPSK	25	12	21.99	21.91	21.96		
10	QPSK	25	25	21.95	21.87	21.96		
10	QPSK	50	0	21.92	21.84	21.90	22.8	1
10	16QAM	1	0	22.25	21.90	21.89		
10	16QAM	1	25	22.11	22.01	21.87		
10	16QAM	1	49	22.17	22.05	22.39	21.8	2
10	16QAM	25	0	20.93	20.97	20.93		
10	16QAM	25	12	21.02	20.82	20.95		
10	16QAM	25	25	20.95	20.97	20.96	21.8	2
10	16QAM	50	0	20.92	20.76	20.82		
10	64QAM	1	0	21.01	20.99	20.93		
10	64QAM	1	25	21.03	21.04	20.97	21.8	2
10	64QAM	1	49	20.70	20.96	20.95		
10	64QAM	25	0	19.76	19.78	19.83	20.8	3
10	64QAM	25	12	19.84	19.82	19.86		
10	64QAM	25	25	19.80	19.85	19.84		
10	64QAM	50	0	19.76	19.75	19.72	20.8	2
10	256QAM	1	0	21.01	20.99	20.93		
10	256QAM	1	25	21.03	21.04	20.97		
10	256QAM	1	49	20.70	20.96	20.95	19.8	3
10	256QAM	25	0	19.76	19.78	19.83		
10	256QAM	25	12	19.84	19.82	19.86		
10	256QAM	25	25	19.80	19.85	19.84	19.8	3
10	256QAM	50	0	19.76	19.75	19.72		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.75	22.81	22.72	23.8	0
5	QPSK	1	12	22.93	22.87	22.93		
5	QPSK	1	24	22.79	22.78	22.84		
5	QPSK	12	0	21.94	21.87	21.87	22.8	1
5	QPSK	12	7	22.02	21.96	21.86		
5	QPSK	12	13	21.95	22.00	21.90		
5	QPSK	25	0	21.97	21.96	21.88	22.8	1
5	16QAM	1	0	22.10	21.92	22.03		
5	16QAM	1	12	22.09	21.95	21.91		
5	16QAM	1	24	22.43	22.07	21.84	21.8	2
5	16QAM	12	0	20.99	20.89	20.91		
5	16QAM	12	7	21.05	21.02	20.92		
5	16QAM	12	13	20.94	21.03	20.93	21.8	2
5	16QAM	25	0	20.89	20.92	20.93		
5	64QAM	1	0	20.96	20.92	20.93		
5	64QAM	1	12	20.96	20.99	21.03	21.8	2
5	64QAM	1	24	20.98	20.95	20.89		
5	64QAM	12	0	19.80	19.80	19.83		
5	64QAM	12	7	19.89	19.93	19.89	20.8	3
5	64QAM	12	13	19.81	19.89	19.89		
5	64QAM	25	0	19.81	19.78	19.81		



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5	256QAM	1	0	20.96	20.92	20.93	20.8	2
5	256QAM	1	12	20.96	20.99	21.03		
5	256QAM	1	24	20.98	20.95	20.89		
5	256QAM	12	0	19.80	19.80	19.83	19.8	3
5	256QAM	12	7	19.89	19.93	19.89		
5	256QAM	12	13	19.81	19.89	19.89		
5	256QAM	25	0	19.81	19.78	19.81	Tune-up limit (dBm)	MPR (dB)
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.94	22.90	22.96	23.8	0
3	QPSK	1	8	22.96	22.96	22.95		
3	QPSK	1	14	22.93	22.95	22.78		
3	QPSK	8	0	21.88	21.90	21.99	22.8	1
3	QPSK	8	4	22.03	21.99	21.97		
3	QPSK	8	7	21.90	21.95	21.98		
3	QPSK	15	0	21.97	21.90	21.93	22.8	1
3	16QAM	1	0	21.91	22.00	22.08		
3	16QAM	1	8	21.92	22.18	22.11		
3	16QAM	1	14	21.82	22.11	22.02	21.8	2
3	16QAM	8	0	21.05	21.05	21.13		
3	16QAM	8	4	21.23	21.20	21.06		
3	16QAM	8	7	21.12	21.12	21.04	21.8	2
3	16QAM	15	0	21.07	21.10	20.99		
3	64QAM	1	0	20.91	20.94	20.98	21.8	2
3	64QAM	1	8	21.04	21.05	21.02		
3	64QAM	1	14	21.03	20.98	20.87		
3	64QAM	8	0	19.81	19.81	19.87	20.8	3
3	64QAM	8	4	19.89	19.92	19.91		
3	64QAM	8	7	19.84	19.86	19.87		
3	64QAM	15	0	19.84	19.78	19.86	20.8	2
3	256QAM	1	0	20.91	20.94	20.98		
3	256QAM	1	8	21.04	21.05	21.02		
3	256QAM	1	14	21.03	20.98	20.87	19.8	3
3	256QAM	8	0	19.81	19.81	19.87		
3	256QAM	8	4	19.89	19.92	19.91		
3	256QAM	8	7	19.84	19.86	19.87	19.8	3
3	256QAM	15	0	19.84	19.78	19.86		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.80	22.74	22.75	23.8	0
1.4	QPSK	1	3	22.86	22.94	22.82		
1.4	QPSK	1	5	22.79	22.81	22.70		
1.4	QPSK	3	0	22.80	22.66	22.74	22.8	1
1.4	QPSK	3	1	22.83	22.83	22.78		
1.4	QPSK	3	3	22.82	22.81	22.71		
1.4	QPSK	6	0	21.93	21.76	21.79	22.8	1
1.4	16QAM	1	0	22.37	22.12	22.15		
1.4	16QAM	1	3	22.41	22.28	22.19		
1.4	16QAM	1	5	22.31	22.25	22.16	21.8	2
1.4	16QAM	3	0	21.91	21.84	21.75		
1.4	16QAM	3	1	21.96	21.82	21.86		
1.4	16QAM	3	3	21.92	21.75	21.76	21.8	2
1.4	16QAM	6	0	20.96	21.02	21.03		
1.4	64QAM	1	0	20.87	20.89	20.92		
1.4	64QAM	1	3	20.99	21.01	21.01	20.8	2
1.4	64QAM	1	5	20.87	20.96	20.89		



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1.4	64QAM	3	0	20.88	20.82	20.86		
1.4	64QAM	3	1	20.91	20.90	20.93		
1.4	64QAM	3	3	20.88	20.88	20.90		
1.4	64QAM	6	0	19.70	19.70	19.77	20.8	3
1.4	256QAM	1	0	20.87	20.89	20.92	22.8	0
1.4	256QAM	1	3	20.99	21.01	21.01		
1.4	256QAM	1	5	20.87	20.96	20.89		
1.4	256QAM	3	0	20.88	20.82	20.86		
1.4	256QAM	3	1	20.91	20.90	20.93		
1.4	256QAM	3	3	20.88	20.88	20.90		
1.4	256QAM	6	0	19.70	19.70	19.77	22.8	0



<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	18.8	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	18.50	18.38	18.33	18.8	0
20	QPSK	1	49	18.48	18.44	18.38		
20	QPSK	1	99	18.49	18.46	18.29		
20	QPSK	50	0	18.42	18.38	18.46	18.8	0
20	QPSK	50	24	18.47	18.42	18.45		
20	QPSK	50	50	18.40	18.46	18.45		
20	QPSK	100	0	18.43	18.36	18.38	18.8	0
20	16QAM	1	0	18.35	18.36	18.39		
20	16QAM	1	49	18.34	18.35	18.40		
20	16QAM	1	99	18.30	18.35	18.37	18.8	0
20	16QAM	50	0	18.25	18.29	18.13		
20	16QAM	50	24	18.36	18.30	18.21		
20	16QAM	50	50	18.37	18.28	18.15	18.8	0
20	16QAM	100	0	18.27	18.18	18.10		
20	64QAM	1	0	18.29	18.33	18.25		
20	64QAM	1	49	18.38	18.33	18.30	18.8	0
20	64QAM	1	99	18.33	18.27	18.29		
20	64QAM	50	0	18.31	18.32	18.21		
20	64QAM	50	24	18.35	18.36	18.22	18.8	0
20	64QAM	50	50	18.37	18.29	18.18		
20	64QAM	100	0	18.28	18.22	18.11		
20	256QAM	1	0	18.30	18.20	18.18	18.8	0
20	256QAM	1	49	18.40	18.37	18.36		
20	256QAM	1	99	18.29	18.39	18.11		
20	256QAM	50	0	18.37	18.30	18.41	18.8	0
20	256QAM	50	24	18.28	18.36	18.35		
20	256QAM	50	50	18.25	18.42	18.33		
20	256QAM	100	0	18.40	18.33	18.28	18.8	0
Channel				20825	21100	21375		
Frequency (MHz)				2507.5	2535	2562.5	18.8	0
15	QPSK	1	0	18.45	18.44	18.33		
15	QPSK	1	37	18.47	18.46	18.31	18.8	0
15	QPSK	1	74	18.42	18.48	18.34		
15	QPSK	36	0	18.33	18.27	18.18		
15	QPSK	36	20	18.36	18.30	18.16	18.8	0
15	QPSK	36	39	18.35	18.33	18.14		
15	QPSK	75	0	18.28	18.22	18.12		
15	16QAM	1	0	18.41	18.38	18.32	18.8	0
15	16QAM	1	37	18.38	18.36	18.35		
15	16QAM	1	74	18.27	18.33	18.30		
15	16QAM	36	0	18.34	18.29	18.19	18.8	0
15	16QAM	36	20	18.33	18.30	18.19		
15	16QAM	36	39	18.35	18.37	18.15		
15	16QAM	75	0	18.33	18.24	18.12	18.8	0
15	64QAM	1	0	18.38	18.39	18.27		
15	64QAM	1	37	18.33	18.31	18.26		
15	64QAM	1	74	18.33	18.39	18.22	18.8	0
15	64QAM	36	0	18.39	18.34	18.24		
15	64QAM	36	20	18.39	18.36	18.25		
15	64QAM	36	39	18.32	18.39	18.24	18.8	0
15	64QAM	75	0	18.32	18.24	18.15		



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15	256QAM	1	0	18.25	18.20	18.14	18.8	0
15	256QAM	1	37	18.38	18.28	18.31		
15	256QAM	1	74	18.23	18.32	18.11		
15	256QAM	36	0	18.34	18.30	18.36	18.8	0
15	256QAM	36	20	18.25	18.26	18.32		
15	256QAM	36	39	18.18	18.38	18.26		
15	256QAM	75	0	18.37	18.32	18.25		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	18.25	18.29	18.11	18.8	0
10	QPSK	1	25	18.29	18.31	18.09		
10	QPSK	1	49	18.33	18.31	18.12		
10	QPSK	25	0	18.12	18.07	17.93	18.8	0
10	QPSK	25	12	18.14	18.08	17.95		
10	QPSK	25	25	18.10	18.12	17.92		
10	QPSK	50	0	18.07	17.98	17.86		
10	16QAM	1	0	18.39	18.37	18.22	18.8	0
10	16QAM	1	25	18.42	18.40	18.20		
10	16QAM	1	49	18.41	18.37	18.20		
10	16QAM	25	0	18.13	18.10	17.92	18.8	0
10	16QAM	25	12	18.14	18.09	17.93		
10	16QAM	25	25	18.17	18.12	17.93		
10	16QAM	50	0	18.09	17.99	17.85		
10	64QAM	1	0	18.24	18.27	18.05	18.8	0
10	64QAM	1	25	18.33	18.39	18.06		
10	64QAM	1	49	18.31	18.32	18.03		
10	64QAM	25	0	18.14	18.09	17.97	18.8	0
10	64QAM	25	12	18.16	18.14	17.99		
10	64QAM	25	25	18.19	18.18	17.98		
10	64QAM	50	0	18.09	18.03	17.88		
10	256QAM	1	0	18.17	18.15	18.14	18.8	0
10	256QAM	1	25	18.35	18.26	18.31		
10	256QAM	1	49	18.21	18.23	18.01		
10	256QAM	25	0	18.24	18.20	18.32	18.8	0
10	256QAM	25	12	18.17	18.25	18.29		
10	256QAM	25	25	18.10	18.33	18.25		
10	256QAM	50	0	18.28	18.28	18.19		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	18.34	18.27	18.13	18.8	0
5	QPSK	1	12	18.35	18.39	18.12		
5	QPSK	1	24	18.34	18.40	18.12		
5	QPSK	12	0	18.08	18.07	17.87	18.8	0
5	QPSK	12	7	18.17	18.11	17.90		
5	QPSK	12	13	18.13	18.12	17.89		
5	QPSK	25	0	18.08	18.05	17.85		
5	16QAM	1	0	18.36	18.29	18.15	18.8	0
5	16QAM	1	12	18.36	18.32	18.20		
5	16QAM	1	24	18.36	18.33	18.22		
5	16QAM	12	0	18.13	18.07	17.90	18.8	0
5	16QAM	12	7	18.17	18.18	17.90		
5	16QAM	12	13	18.12	18.13	17.92		
5	16QAM	25	0	18.12	18.08	17.89		
5	64QAM	1	0	18.32	18.29	18.17	18.8	0
5	64QAM	1	12	18.30	18.28	18.14		
5	64QAM	1	24	18.26	18.34	18.12		



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5	64QAM	12	0	18.21	18.15	17.95	18.8	0
5	64QAM	12	7	18.24	18.22	18.01		
5	64QAM	12	13	18.17	18.19	17.97		
5	64QAM	25	0	18.13	18.09	17.93		
5	256QAM	1	0	18.08	18.05	18.06	18.8	0
5	256QAM	1	12	18.29	18.19	18.24		
5	256QAM	1	24	18.21	18.17	17.91		
5	256QAM	12	0	18.18	18.20	18.25	18.8	0
5	256QAM	12	7	18.16	18.23	18.28		
5	256QAM	12	13	18.08	18.32	18.21		
5	256QAM	25	0	18.20	18.25	18.11		



<LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	22.92	22.71	22.79	23.8	0
10	QPSK	1	25	22.88	22.94	22.64		
10	QPSK	1	49	22.78	22.81	22.75		
10	QPSK	25	0	21.89	21.90	21.85	22.8	1
10	QPSK	25	12	22.08	22.10	22.05		
10	QPSK	25	25	21.97	22.04	21.98		
10	QPSK	50	0	21.89	21.95	21.83	22.8	1
10	16QAM	1	0	22.29	22.08	22.25		
10	16QAM	1	25	22.23	22.09	22.08		
10	16QAM	1	49	22.19	22.19	22.15	21.8	2
10	16QAM	25	0	20.97	20.90	20.91		
10	16QAM	25	12	21.07	21.06	21.08		
10	16QAM	25	25	21.06	21.08	20.98	21.8	2
10	16QAM	50	0	21.02	20.86	20.86		
10	64QAM	1	0	21.07	21.03	21.09		
10	64QAM	1	25	21.09	21.11	21.11	21.8	2
10	64QAM	1	49	21.16	21.17	21.11		
10	64QAM	25	0	19.88	19.85	19.86	20.8	3
10	64QAM	25	12	20.00	19.97	20.00		
10	64QAM	25	25	19.97	19.98	19.96		
10	64QAM	50	0	19.96	19.87	19.88	20.8	2
10	256QAM	1	0	21.07	21.03	21.09		
10	256QAM	1	25	21.09	21.11	21.11		
10	256QAM	1	49	21.16	21.17	21.11	19.8	3
10	256QAM	25	0	19.88	19.85	19.86		
10	256QAM	25	12	20.00	19.97	20.00		
10	256QAM	25	25	19.97	19.98	19.96	19.8	3
10	256QAM	50	0	19.96	19.87	19.88		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.88	22.78	22.86	23.8	0
5	QPSK	1	12	22.90	22.91	22.92		
5	QPSK	1	24	22.93	22.93	22.92		
5	QPSK	12	0	22.07	21.96	21.92	22.8	1
5	QPSK	12	7	22.04	22.05	21.98		
5	QPSK	12	13	22.01	21.98	21.98		
5	QPSK	25	0	22.06	21.91	21.91	22.8	1
5	16QAM	1	0	22.42	22.36	22.25		
5	16QAM	1	12	22.06	22.49	22.31		
5	16QAM	1	24	22.55	22.31	22.31	21.8	2
5	16QAM	12	0	21.08	20.93	20.91		
5	16QAM	12	7	21.05	21.02	20.92		
5	16QAM	12	13	21.03	20.96	20.91	21.8	2
5	16QAM	25	0	21.07	20.91	20.91		
5	64QAM	1	0	21.11	21.08	21.01		
5	64QAM	1	12	21.08	21.13	21.08	21.8	2
5	64QAM	1	24	21.14	21.13	21.07		
5	64QAM	12	0	20.01	20.02	19.99		
5	64QAM	12	7	20.03	20.06	19.98	20.8	3
5	64QAM	12	13	20.02	20.05	19.99		
5	64QAM	25	0	19.99	19.96	19.89		



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5	256QAM	1	0	21.11	21.08	21.01	20.8	2
5	256QAM	1	12	21.08	21.13	21.08		
5	256QAM	1	24	21.14	21.13	21.07		
5	256QAM	12	0	20.01	20.02	19.99	19.8	3
5	256QAM	12	7	20.03	20.06	19.98		
5	256QAM	12	13	20.02	20.05	19.99		
5	256QAM	25	0	19.99	19.96	19.89	Tune-up limit (dBm)	MPR (dB)
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.92	22.89	22.90	23.8	0
3	QPSK	1	8	22.91	22.93	22.90		
3	QPSK	1	14	22.93	22.92	22.81		
3	QPSK	8	0	22.01	21.93	21.97	22.8	1
3	QPSK	8	4	22.05	21.96	21.95		
3	QPSK	8	7	22.00	22.00	21.93		
3	QPSK	15	0	22.04	21.93	22.02	22.8	1
3	16QAM	1	0	21.97	21.88	22.07		
3	16QAM	1	8	21.98	21.99	21.93		
3	16QAM	1	14	21.98	21.88	22.07	21.8	2
3	16QAM	8	0	21.21	21.12	21.06		
3	16QAM	8	4	21.15	21.18	21.08		
3	16QAM	8	7	21.13	21.14	21.04	21.8	2
3	16QAM	15	0	21.12	21.05	21.07		
3	64QAM	1	0	21.14	21.10	21.06		
3	64QAM	1	8	21.19	21.18	21.08	21.8	2
3	64QAM	1	14	21.13	21.16	21.02		
3	64QAM	8	0	20.08	20.01	19.95	20.8	3
3	64QAM	8	4	20.06	20.08	19.97		
3	64QAM	8	7	20.00	20.05	19.94		
3	64QAM	15	0	20.02	19.93	19.94	20.8	2
3	256QAM	1	0	21.14	21.10	21.06		
3	256QAM	1	8	21.19	21.18	21.08		
3	256QAM	1	14	21.13	21.16	21.02	19.8	3
3	256QAM	8	0	20.08	20.01	19.95		
3	256QAM	8	4	20.06	20.08	19.97		
3	256QAM	8	7	20.00	20.05	19.94	20.2	19.94
3	256QAM	15	0	20.02	19.93	19.94		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.88	22.77	22.75		
1.4	QPSK	1	3	22.90	22.83	22.78	23.8	0
1.4	QPSK	1	5	22.82	22.79	22.74		
1.4	QPSK	3	0	22.87	22.79	22.70		
1.4	QPSK	3	1	22.89	22.78	22.75	22.8	1
1.4	QPSK	3	3	22.92	22.82	22.77		
1.4	QPSK	6	0	21.95	21.83	21.86		
1.4	16QAM	1	0	22.11	21.99	22.38	22.8	1
1.4	16QAM	1	3	22.27	22.17	22.43		
1.4	16QAM	1	5	22.18	22.12	22.23		
1.4	16QAM	3	0	21.98	21.92	21.83	21.8	2
1.4	16QAM	3	1	22.03	21.92	21.83		
1.4	16QAM	3	3	21.97	21.90	21.75		
1.4	16QAM	6	0	21.06	20.89	20.94	21.8	2
1.4	64QAM	1	0	21.07	20.99	21.00		
1.4	64QAM	1	3	21.11	21.14	21.02		
1.4	64QAM	1	5	21.05	21.09	20.95	21.8	2



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1.4	64QAM	3	0	21.06	20.97	20.96		
1.4	64QAM	3	1	21.12	21.03	20.99		
1.4	64QAM	3	3	21.09	21.04	20.96		
1.4	64QAM	6	0	19.93	19.84	19.81	20.8	3
1.4	256QAM	1	0	21.07	20.99	21.00	22.8	0
1.4	256QAM	1	3	21.11	21.14	21.02		
1.4	256QAM	1	5	21.05	21.09	20.95		
1.4	256QAM	3	0	21.06	20.97	20.96		
1.4	256QAM	3	1	21.12	21.03	20.99		
1.4	256QAM	3	3	21.09	21.04	20.96		
1.4	256QAM	6	0	19.93	19.84	19.81	22.8	0

<LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.92		23.8	0
10	QPSK	1	25		22.90			
10	QPSK	1	49		22.84			
10	QPSK	25	0		22.01		22.8	1
10	QPSK	25	12		22.03			
10	QPSK	25	25		22.00			
10	QPSK	50	0		21.94		22.8	1
10	16QAM	1	0		22.56			
10	16QAM	1	25		22.55			
10	16QAM	1	49		22.45		21.8	2
10	16QAM	25	0		20.91			
10	16QAM	25	12		20.93			
10	16QAM	25	25		20.98		21.8	2
10	16QAM	50	0		20.91			
10	64QAM	1	0		20.84			
10	64QAM	1	25		20.93		21.8	2
10	64QAM	1	49		20.88			
10	64QAM	25	0		19.73			
10	64QAM	25	12		19.79		20.8	3
10	64QAM	25	25		19.81			
10	64QAM	50	0		19.70			
10	256QAM	1	0		20.84		20.8	2
10	256QAM	1	25		20.93			
10	256QAM	1	49		20.88			
10	256QAM	25	0		19.73		19.8	3
10	256QAM	25	12		19.79			
10	256QAM	25	25		19.81			
10	256QAM	50	0		19.70			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.91	22.90	22.84	23.8	0
5	QPSK	1	12	22.89	22.89	22.90		
5	QPSK	1	24	22.91	22.91	22.82		
5	QPSK	12	0	22.08	22.06	22.00	22.8	1
5	QPSK	12	7	22.15	22.08	22.08		
5	QPSK	12	13	22.12	22.12	22.07		
5	QPSK	25	0	21.98	21.96	21.91	22.8	1
5	16QAM	1	0	22.15	22.02	22.45		
5	16QAM	1	12	22.09	22.40	22.39		
5	16QAM	1	24	22.18	22.13	22.09	21.8	2
5	16QAM	12	0	21.19	21.18	20.95		
5	16QAM	12	7	21.14	21.12	21.07		
5	16QAM	12	13	21.13	21.07	21.04	21.8	2
5	16QAM	25	0	21.12	21.00	20.90		
5	64QAM	1	0	20.62	20.91	20.82		
5	64QAM	1	12	20.98	20.93	20.81	21.8	2
5	64QAM	1	24	20.96	20.86	20.86		
5	64QAM	12	0	19.91	19.78	19.77		
5	64QAM	12	7	19.92	19.85	19.86	20.8	3
5	64QAM	12	13	19.86	19.84	19.82		
5	64QAM	25	0	19.79	19.77	19.77		



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5	256QAM	1	0	20.62	20.91	20.82	20.8	2
5	256QAM	1	12	20.98	20.93	20.81		
5	256QAM	1	24	20.96	20.86	20.86		
5	256QAM	12	0	19.91	19.78	19.77	19.8	3
5	256QAM	12	7	19.92	19.85	19.86		
5	256QAM	12	13	19.86	19.84	19.82		
5	256QAM	25	0	19.79	19.77	19.77		



<LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.85	22.96	22.89	23.8	0
10	QPSK	1	25	22.83	22.87	22.95		
10	QPSK	1	49	22.88	22.95	22.91		
10	QPSK	25	0	22.00	22.01	22.00	22.8	1
10	QPSK	25	12	22.06	22.09	22.01		
10	QPSK	25	25	22.04	21.91	21.96		
10	QPSK	50	0	21.98	22.04	22.02	22.8	1
10	16QAM	1	0	22.26	22.50	22.57		
10	16QAM	1	25	22.20	22.56	22.57		
10	16QAM	1	49	22.19	22.42	22.58	21.8	2
10	16QAM	25	0	21.05	21.04	21.10		
10	16QAM	25	12	21.21	20.93	21.05		
10	16QAM	25	25	21.11	21.08	21.03	21.8	2
10	16QAM	50	0	20.99	21.08	21.02		
10	64QAM	1	0	21.12	21.06	20.99		
10	64QAM	1	25	21.15	21.21	21.11	21.8	2
10	64QAM	1	49	21.16	21.11	21.09		
10	64QAM	25	0	19.98	19.97	19.96	20.8	3
10	64QAM	25	12	20.09	20.03	19.99		
10	64QAM	25	25	20.03	19.95	19.93		
10	64QAM	50	0	19.97	19.99	19.99	20.8	2
10	256QAM	1	0	21.12	21.06	20.99		
10	256QAM	1	25	21.15	21.21	21.11		
10	256QAM	1	49	21.16	21.11	21.09	19.8	3
10	256QAM	25	0	19.98	19.97	19.96		
10	256QAM	25	12	20.09	20.03	19.99		
10	256QAM	25	25	20.03	19.95	19.93	19.8	3
10	256QAM	50	0	19.97	19.99	19.99		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.93	22.95	22.83	23.8	0
5	QPSK	1	12	22.94	22.95	22.89		
5	QPSK	1	24	22.95	22.91	22.75		
5	QPSK	12	0	22.02	22.02	21.94	22.8	1
5	QPSK	12	7	22.04	22.01	22.05		
5	QPSK	12	13	22.08	21.96	21.93		
5	QPSK	25	0	22.10	22.06	22.07	22.8	1
5	16QAM	1	0	22.34	22.23	22.23		
5	16QAM	1	12	22.37	22.39	22.16		
5	16QAM	1	24	22.38	22.22	22.20	21.8	2
5	16QAM	12	0	21.02	20.98	20.91		
5	16QAM	12	7	21.04	20.98	20.98		
5	16QAM	12	13	21.08	20.97	20.87	21.8	2
5	16QAM	25	0	21.02	20.96	20.96		
5	64QAM	1	0	21.11	21.06	21.07		
5	64QAM	1	12	21.10	21.11	21.06	21.8	2
5	64QAM	1	24	21.16	21.06	21.01		
5	64QAM	12	0	20.04	19.99	20.01		
5	64QAM	12	7	20.09	20.04	20.00	20.8	3
5	64QAM	12	13	20.11	20.03	19.98		
5	64QAM	25	0	20.03	19.99	19.94		



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5	256QAM	1	0	21.11	21.06	21.07	20.8	2
5	256QAM	1	12	21.10	21.11	21.06		
5	256QAM	1	24	21.16	21.06	21.01		
5	256QAM	12	0	20.04	19.99	20.01	19.8	3
5	256QAM	12	7	20.09	20.04	20.00		
5	256QAM	12	13	20.11	20.03	19.98		
5	256QAM	25	0	20.03	19.99	19.94		



<LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	18.22	18.28	18.25	18.8	0
20	QPSK	1	49	18.15	18.25	18.24		
20	QPSK	1	99	18.01	18.17	18.19		
20	QPSK	50	0	18.13	18.20	18.22	18.8	0
20	QPSK	50	24	18.20	18.25	18.20		
20	QPSK	50	50	18.19	18.20	18.22		
20	QPSK	100	0	18.08	18.15	18.14	18.8	0
20	16QAM	1	0	18.24	18.23	18.27		
20	16QAM	1	49	18.27	18.23	18.27		
20	16QAM	1	99	18.15	18.21	18.23	18.8	0
20	16QAM	50	0	18.01	18.11	18.12		
20	16QAM	50	24	18.07	18.17	18.12		
20	16QAM	50	50	18.08	18.12	18.16	18.8	0
20	16QAM	100	0	17.97	18.06	18.01		
20	64QAM	1	0	18.20	18.10	18.23	18.8	0
20	64QAM	1	49	18.19	18.20	18.23		
20	64QAM	1	99	18.12	18.24	18.16		
20	64QAM	50	0	18.06	18.13	18.16	18.8	0
20	64QAM	50	24	18.11	18.23	18.13		
20	64QAM	50	50	18.07	18.16	18.19		
20	64QAM	100	0	18.02	18.09	18.06	18.8	0
20	256QAM	1	0	18.03	18.08	18.08		
20	256QAM	1	49	18.07	18.11	18.05		
20	256QAM	1	99	18.00	18.09	18.06	18.8	0
20	256QAM	50	0	17.97	18.09	18.05		
20	256QAM	50	24	18.04	18.09	18.08		
20	256QAM	50	50	18.04	18.04	18.07	18.8	0
20	256QAM	100	0	18.02	17.99	18.08		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	17.92	18.26	18.26	18.8	0
15	QPSK	1	37	18.11	18.24	18.24		
15	QPSK	1	74	17.95	18.19	18.22		
15	QPSK	36	0	17.90	18.01	18.02	18.8	0
15	QPSK	36	20	18.10	18.15	18.19		
15	QPSK	36	39	18.00	18.12	18.16		
15	QPSK	75	0	17.99	18.11	18.13	18.8	0
15	16QAM	1	0	18.01	18.27	18.16		
15	16QAM	1	37	18.21	18.23	18.16		
15	16QAM	1	74	18.03	18.18	18.07	18.8	0
15	16QAM	36	0	17.92	18.02	17.99		
15	16QAM	36	20	18.06	18.18	18.19		
15	16QAM	36	39	17.99	18.15	18.12	18.8	0
15	16QAM	75	0	18.00	18.08	18.09		
15	64QAM	1	0	17.92	18.26	18.23		
15	64QAM	1	37	18.14	18.23	18.18	18.8	0
15	64QAM	1	74	18.00	18.25	18.16		
15	64QAM	36	0	17.97	18.03	18.09		
15	64QAM	36	20	18.11	18.24	18.23	18.8	0
15	64QAM	36	39	18.05	18.16	18.20		
15	64QAM	75	0	18.02	18.14	18.13		



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15	256QAM	1	0	17.94	17.99	18.06	18.8	0
15	256QAM	1	37	18.02	18.01	18.02		
15	256QAM	1	74	17.95	18.02	18.06		
15	256QAM	36	0	17.88	18.02	18.03	18.8	0
15	256QAM	36	20	17.98	18.02	18.08		
15	256QAM	36	39	18.00	18.00	18.04		
15	256QAM	75	0	18.02	17.96	18.02		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	17.65	17.67	18.01	18.8	0
10	QPSK	1	25	17.86	17.95	17.96		
10	QPSK	1	49	17.62	17.74	17.95		
10	QPSK	25	0	17.85	17.99	17.95	18.8	0
10	QPSK	25	12	18.00	18.12	18.05		
10	QPSK	25	25	17.95	18.07	18.04		
10	QPSK	50	0	17.97	18.06	18.00		
10	16QAM	1	0	18.01	18.05	18.24	18.8	0
10	16QAM	1	25	18.20	18.23	18.22		
10	16QAM	1	49	17.97	18.07	18.26		
10	16QAM	25	0	17.88	17.97	17.98	18.8	0
10	16QAM	25	12	18.04	18.14	18.06		
10	16QAM	25	25	17.93	18.06	18.04		
10	16QAM	50	0	17.95	18.09	17.97		
10	64QAM	1	0	17.86	17.94	18.25	18.8	0
10	64QAM	1	25	18.20	18.19	18.21		
10	64QAM	1	49	17.89	17.98	18.26		
10	64QAM	25	0	17.85	17.99	18.00	18.8	0
10	64QAM	25	12	18.06	18.17	18.13		
10	64QAM	25	25	17.95	18.08	18.12		
10	64QAM	50	0	17.99	18.08	18.02		
10	256QAM	1	0	17.93	17.98	18.05	18.8	0
10	256QAM	1	25	17.94	17.95	17.98		
10	256QAM	1	49	17.90	17.96	18.01		
10	256QAM	25	0	17.81	17.98	18.03	18.8	0
10	256QAM	25	12	17.93	17.95	18.06		
10	256QAM	25	25	17.99	17.95	18.02		
10	256QAM	50	0	17.96	17.96	17.99		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	17.89	17.91	17.96	18.8	0
5	QPSK	1	12	17.92	18.02	17.99		
5	QPSK	1	24	17.88	18.05	18.04		
5	QPSK	12	0	17.99	18.03	18.01	18.8	0
5	QPSK	12	7	18.02	18.14	18.06		
5	QPSK	12	13	18.02	18.10	18.12		
5	QPSK	25	0	17.96	18.08	18.05		
5	16QAM	1	0	18.07	18.10	18.13	18.8	0
5	16QAM	1	12	18.09	18.12	18.16		
5	16QAM	1	24	18.16	18.27	18.17		
5	16QAM	12	0	17.99	18.04	18.02	18.8	0
5	16QAM	12	7	18.01	18.16	18.10		
5	16QAM	12	13	18.02	18.13	18.13		
5	16QAM	25	0	17.99	18.11	18.03		
5	64QAM	1	0	18.14	18.22	18.20	18.8	0
5	64QAM	1	12	18.05	18.21	18.20		
5	64QAM	1	24	18.12	18.25	18.18		



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5	64QAM	12	0	18.05	18.11	18.12	18.8	0
5	64QAM	12	7	18.09	18.22	18.16		
5	64QAM	12	13	18.09	18.21	18.20		
5	64QAM	25	0	18.01	18.12	18.10		
5	256QAM	1	0	17.88	17.96	18.04	18.8	0
5	256QAM	1	12	17.87	17.94	17.96		
5	256QAM	1	24	17.80	17.88	17.93		
5	256QAM	12	0	17.71	17.89	17.98	18.8	0
5	256QAM	12	7	17.87	17.95	17.96		
5	256QAM	12	13	17.99	17.93	18.00		
5	256QAM	25	0	17.92	17.91	17.89		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	17.85	17.95	18.00	18.8	0
3	QPSK	1	8	17.93	18.06	18.09		
3	QPSK	1	14	17.89	18.04	18.02		
3	QPSK	8	0	17.97	18.01	18.06	18.8	0
3	QPSK	8	4	18.01	18.12	18.14		
3	QPSK	8	7	18.00	18.08	18.11		
3	QPSK	15	0	17.99	18.07	18.09		
3	16QAM	1	0	17.96	18.06	18.10	18.8	0
3	16QAM	1	8	18.06	18.25	18.15		
3	16QAM	1	14	18.04	18.21	18.17		
3	16QAM	8	0	18.02	18.08	18.15	18.8	0
3	16QAM	8	4	18.04	18.18	18.19		
3	16QAM	8	7	18.01	18.20	18.16		
3	16QAM	15	0	17.98	18.14	18.12		
3	64QAM	1	0	17.97	18.00	18.10	18.8	0
3	64QAM	1	8	17.96	18.14	18.18		
3	64QAM	1	14	17.96	18.08	18.14		
3	64QAM	8	0	18.05	18.11	18.17	18.8	0
3	64QAM	8	4	18.08	18.21	18.19		
3	64QAM	8	7	18.05	18.19	18.20		
3	64QAM	15	0	18.00	18.17	18.16		
3	256QAM	1	0	17.88	17.95	17.96	18.8	0
3	256QAM	1	8	17.87	17.85	17.94		
3	256QAM	1	14	17.73	17.80	17.90		
3	256QAM	8	0	17.62	17.81	17.95	18.8	0
3	256QAM	8	4	17.80	17.89	17.95		
3	256QAM	8	7	17.98	17.86	17.99		
3	256QAM	15	0	17.91	17.84	17.84		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	17.77	17.83	17.87	18.8	0
1.4	QPSK	1	3	17.87	17.94	18.02		
1.4	QPSK	1	5	17.81	17.88	17.95		
1.4	QPSK	3	0	17.86	17.93	17.95		
1.4	QPSK	3	1	17.86	17.96	17.96		
1.4	QPSK	3	3	17.84	17.99	17.95	18.8	0
1.4	QPSK	6	0	17.93	17.97	18.01		
1.4	16QAM	1	0	18.12	18.18	18.23	18.8	0
1.4	16QAM	1	3	18.21	18.24	18.26		
1.4	16QAM	1	5	18.17	18.25	18.26		
1.4	16QAM	3	0	17.92	18.06	17.99		
1.4	16QAM	3	1	17.97	18.08	18.02		
1.4	16QAM	3	3	17.95	18.04	17.99		



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1.4	16QAM	6	0	17.99	18.10	18.09	18.8	0
1.4	64QAM	1	0	18.10	18.12	18.16	18.8	0
1.4	64QAM	1	3	18.13	18.19	18.24		
1.4	64QAM	1	5	18.08	18.16	18.15		
1.4	64QAM	3	0	18.09	18.14	18.15		
1.4	64QAM	3	1	18.12	18.17	18.22		
1.4	64QAM	3	3	18.08	18.17	18.19		
1.4	64QAM	6	0	17.94	18.07	18.07	18.8	0
1.4	256QAM	1	0	17.87	17.86	17.94	18.8	0
1.4	256QAM	1	3	17.80	17.75	17.86		
1.4	256QAM	1	5	17.73	17.72	17.84		
1.4	256QAM	3	0	17.55	17.71	17.92		
1.4	256QAM	3	1	17.75	17.86	17.93		
1.4	256QAM	3	3	17.89	17.86	17.91		
1.4	256QAM	6	0	17.91	17.84	17.80	18.8	0



<LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965	23.8	0
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.96	22.99	22.95		
15	QPSK	1	37	22.90	22.93	22.90	22.8	1
15	QPSK	1	74	22.94	22.96	22.77		
15	QPSK	36	0	21.94	21.91	21.96		
15	QPSK	36	20	22.05	22.07	22.01	22.8	1
15	QPSK	36	39	22.01	21.98	22.06		
15	QPSK	75	0	22.02	22.05	22.03		
15	16QAM	1	0	22.16	22.43	22.01	22.8	1
15	16QAM	1	37	22.26	22.08	21.98		
15	16QAM	1	74	22.10	21.93	21.84		
15	16QAM	36	0	20.91	20.92	20.97	21.8	2
15	16QAM	36	20	21.10	20.94	21.10		
15	16QAM	36	39	21.02	20.98	21.03		
15	16QAM	75	0	21.06	20.98	21.01	21.8	2
15	64QAM	1	0	20.94	20.91	21.02		
15	64QAM	1	37	21.05	21.00	21.09		
15	64QAM	1	74	21.07	21.03	21.01	20.8	3
15	64QAM	36	0	19.79	19.80	19.86		
15	64QAM	36	20	19.94	19.89	20.02		
15	64QAM	36	39	19.86	19.92	19.94	20.8	2
15	64QAM	75	0	19.85	19.81	19.93		
15	256QAM	1	0	20.94	20.91	21.02		
15	256QAM	1	37	21.05	21.00	21.09	20.8	2
15	256QAM	1	74	21.07	21.03	21.01		
15	256QAM	36	0	19.79	19.80	19.86	19.8	3
15	256QAM	36	20	19.94	19.89	20.02		
15	256QAM	36	39	19.86	19.92	19.94		
15	256QAM	75	0	19.85	19.81	19.93	26740	26990
Channel				26740	26865	26990		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.88	22.85	22.84	23.8	0
10	QPSK	1	25	22.87	22.88	22.94		
10	QPSK	1	49	22.76	22.86	22.80		
10	QPSK	25	0	21.74	21.83	21.80	22.8	1
10	QPSK	25	12	21.94	21.95	21.87		
10	QPSK	25	25	21.69	21.83	21.87		
10	QPSK	50	0	21.81	21.78	21.88	22.8	1
10	16QAM	1	0	22.11	22.36	22.50		
10	16QAM	1	25	22.05	22.36	22.63		
10	16QAM	1	49	22.09	22.34	22.32	21.8	2
10	16QAM	25	0	20.83	20.78	20.73		
10	16QAM	25	12	20.90	20.89	20.77		
10	16QAM	25	25	20.76	20.91	20.77	21.8	2
10	16QAM	50	0	20.90	20.82	20.88		
10	64QAM	1	0	20.84	20.86	20.91		
10	64QAM	1	25	20.89	20.91	20.93	20.8	3
10	64QAM	1	49	20.90	20.86	20.87		
10	64QAM	25	0	19.56	19.65	19.69		
10	64QAM	25	12	19.76	19.79	19.80	19.70	19.77
10	64QAM	25	25	19.70	19.77	19.77		
10	64QAM	50	0	19.68	19.69	19.72		



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10	256QAM	1	0	20.84	20.86	20.91	20.8	2
10	256QAM	1	25	20.89	20.91	20.93		
10	256QAM	1	49	20.90	20.86	20.87		
10	256QAM	25	0	19.56	19.65	19.69	19.8	3
10	256QAM	25	12	19.76	19.79	19.80		
10	256QAM	25	25	19.70	19.77	19.77		
10	256QAM	50	0	19.68	19.69	19.72	Tune-up limit (dBm)	MPR (dB)
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5	23.8	0
5	QPSK	1	0	22.75	22.75	22.85		
5	QPSK	1	12	22.83	22.85	22.96		
5	QPSK	1	24	22.80	22.86	22.89	22.8	1
5	QPSK	12	0	21.88	21.89	21.83		
5	QPSK	12	7	21.92	22.08	21.86		
5	QPSK	12	13	21.93	21.96	21.88	22.8	1
5	QPSK	25	0	21.92	21.93	21.87		
5	16QAM	1	0	21.74	21.77	21.97		
5	16QAM	1	12	21.80	22.00	22.03	21.8	2
5	16QAM	1	24	21.76	22.07	21.97		
5	16QAM	12	0	20.94	20.91	20.98		
5	16QAM	12	7	20.97	21.14	20.97	21.8	2
5	16QAM	12	13	21.02	21.07	20.94		
5	16QAM	25	0	20.95	21.01	20.98		
5	64QAM	1	0	20.86	20.95	21.03	21.8	2
5	64QAM	1	12	20.90	20.98	21.03		
5	64QAM	1	24	20.82	20.95	20.94		
5	64QAM	12	0	19.76	19.77	19.85	20.8	3
5	64QAM	12	7	19.82	19.89	19.89		
5	64QAM	12	13	19.79	19.85	19.89		
5	64QAM	25	0	19.75	19.73	19.81	20.8	2
5	256QAM	1	0	20.86	20.95	21.03		
5	256QAM	1	12	20.90	20.98	21.03		
5	256QAM	1	24	20.82	20.95	20.94	19.8	3
5	256QAM	12	0	19.76	19.77	19.85		
5	256QAM	12	7	19.82	19.89	19.89		
5	256QAM	12	13	19.79	19.85	19.89	19.8	3
5	256QAM	25	0	19.75	19.73	19.81		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.86	22.94	22.84	23.8	0
3	QPSK	1	8	22.98	22.96	22.97		
3	QPSK	1	14	22.81	22.87	22.83		
3	QPSK	8	0	21.93	21.88	21.95	22.8	1
3	QPSK	8	4	21.91	21.95	21.96		
3	QPSK	8	7	21.94	21.98	21.89		
3	QPSK	15	0	21.92	21.85	21.94	22.8	1
3	16QAM	1	0	22.39	21.99	22.45		
3	16QAM	1	8	22.13	22.18	22.40		
3	16QAM	1	14	21.99	22.01	22.34	21.8	2
3	16QAM	8	0	21.07	21.01	21.00		
3	16QAM	8	4	21.11	21.17	21.01		
3	16QAM	8	7	21.04	21.12	21.00	21.8	2
3	16QAM	15	0	21.04	21.11	20.90		
3	64QAM	1	0	20.91	20.85	20.99		
3	64QAM	1	8	20.94	21.03	21.02	21.8	2
3	64QAM	1	14	20.83	20.97	20.93		



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3	64QAM	8	0	19.79	19.81	19.89	20.8	3
3	64QAM	8	4	19.82	19.87	19.92		
3	64QAM	8	7	19.76	19.84	19.87		
3	64QAM	15	0	19.77	19.77	19.85		
3	256QAM	1	0	20.91	20.85	20.99	20.8	2
3	256QAM	1	8	20.94	21.03	21.02		
3	256QAM	1	14	20.83	20.97	20.93		
3	256QAM	8	0	19.79	19.81	19.89	19.8	3
3	256QAM	8	4	19.82	19.87	19.92		
3	256QAM	8	7	19.76	19.84	19.87		
3	256QAM	15	0	19.77	19.77	19.85		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.78	22.68	22.67	23.8	0
1.4	QPSK	1	3	22.85	22.87	22.84		
1.4	QPSK	1	5	22.82	22.83	22.69		
1.4	QPSK	3	0	22.84	22.77	22.75		
1.4	QPSK	3	1	22.86	22.88	22.73		
1.4	QPSK	3	3	22.86	22.87	22.75		
1.4	QPSK	6	0	21.89	21.80	21.86	22.8	1
1.4	16QAM	1	0	22.07	22.02	22.03	22.8	1
1.4	16QAM	1	3	22.17	22.15	22.02		
1.4	16QAM	1	5	22.12	22.07	22.01		
1.4	16QAM	3	0	21.99	21.87	21.80		
1.4	16QAM	3	1	21.94	21.86	21.92		
1.4	16QAM	3	3	21.97	21.87	21.86		
1.4	16QAM	6	0	21.02	20.89	20.94	21.8	2
1.4	64QAM	1	0	20.89	20.79	20.91	21.8	2
1.4	64QAM	1	3	20.94	20.94	20.94		
1.4	64QAM	1	5	20.84	20.88	20.89		
1.4	64QAM	3	0	20.84	20.76	20.83		
1.4	64QAM	3	1	20.86	20.84	20.89		
1.4	64QAM	3	3	20.83	20.83	20.85		
1.4	64QAM	6	0	19.69	19.71	19.74	20.8	3
1.4	256QAM	1	0	20.89	20.79	20.91	22.8	0
1.4	256QAM	1	3	20.94	20.94	20.94		
1.4	256QAM	1	5	20.84	20.88	20.89		
1.4	256QAM	3	0	20.84	20.76	20.83		
1.4	256QAM	3	1	20.86	20.84	20.89		
1.4	256QAM	3	3	20.83	20.83	20.85		
1.4	256QAM	6	0	19.69	19.71	19.74	22.8	0

<LTE Band 30>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				27710				
Frequency (MHz)				2310				
10	QPSK	1	0		23.15		23.8	0
10	QPSK	1	25		23.11			
10	QPSK	1	49		23.00			
10	QPSK	25	0		22.09		22.8	1
10	QPSK	25	12		22.15			
10	QPSK	25	25		22.04			
10	QPSK	50	0		22.08		22.8	1
10	16QAM	1	0		22.79			
10	16QAM	1	25		22.65			
10	16QAM	1	49		22.60		21.8	2
10	16QAM	25	0		21.04			
10	16QAM	25	12		21.14			
10	16QAM	25	25		21.07		21.8	2
10	16QAM	50	0		21.01			
10	64QAM	1	0		21.03			
10	64QAM	1	25		21.10			
10	64QAM	1	49		20.98			
10	64QAM	25	0		19.80		20.8	3
10	64QAM	25	12		19.87			
10	64QAM	25	25		19.77			
10	64QAM	50	0		19.79		20.8	2
10	256QAM	1	0		21.03			
10	256QAM	1	25		21.10			
10	256QAM	1	49		20.98		19.8	3
10	256QAM	25	0		19.80			
10	256QAM	25	12		19.87			
10	256QAM	25	25		19.77		19.8	3
10	256QAM	50	0		19.79			
Channel				27685	27710	27735	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2307.5	2310	2312.5		
5	QPSK	1	0	22.91	22.95	23.11	23.8	0
5	QPSK	1	12	23.13	23.12	23.12		
5	QPSK	1	24	22.97	23.10	22.95		
5	QPSK	12	0	22.16	22.05	22.08	22.8	1
5	QPSK	12	7	22.20	22.14	22.21		
5	QPSK	12	13	22.19	22.07	22.13		
5	QPSK	25	0	22.11	22.13	22.19	22.8	1
5	16QAM	1	0	22.20	22.12	22.12		
5	16QAM	1	12	22.28	22.21	22.24		
5	16QAM	1	24	22.14	22.11	22.08	21.8	2
5	16QAM	12	0	21.16	21.14	21.16		
5	16QAM	12	7	21.30	21.15	21.19		
5	16QAM	12	13	21.20	21.12	21.12	21.8	2
5	16QAM	25	0	21.14	21.11	21.11		
5	64QAM	1	0	20.91	21.00	21.05		
5	64QAM	1	12	21.04	21.06	21.04	21.8	2
5	64QAM	1	24	21.00	20.92	20.93		
5	64QAM	12	0	19.93	19.90	19.92		
5	64QAM	12	7	19.99	19.92	19.95	20.8	3
5	64QAM	12	13	19.92	19.87	19.92		
5	64QAM	25	0	19.90	19.86	19.90		



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5	256QAM	1	0	20.91	21.00	21.05	20.8	2
5	256QAM	1	12	21.04	21.06	21.04		
5	256QAM	1	24	21.00	20.92	20.93		
5	256QAM	12	0	19.93	19.90	19.92	19.8	3
5	256QAM	12	7	19.99	19.92	19.95		
5	256QAM	12	13	19.92	19.87	19.92		
5	256QAM	25	0	19.90	19.86	19.90		



<LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.00	19.11	19.05	19.8	0
20	QPSK	1	49	18.91	19.03	19.06		
20	QPSK	1	99	18.78	18.84	18.88		
20	QPSK	50	0	18.96	19.08	19.10	19.8	0
20	QPSK	50	24	19.05	19.09	19.08		
20	QPSK	50	50	18.97	19.04	19.04		
20	QPSK	100	0	19.00	19.05	19.02	19.8	0
20	16QAM	1	0	18.81	18.90	18.92		
20	16QAM	1	49	18.94	18.94	18.97		
20	16QAM	1	99	18.78	18.87	18.80	19.8	0
20	16QAM	50	0	18.80	18.91	18.92		
20	16QAM	50	24	18.90	18.95	18.93		
20	16QAM	50	50	18.76	18.87	18.90	19.8	0
20	16QAM	100	0	18.79	18.84	18.95		
20	64QAM	1	0	18.79	18.73	18.89	19.8	0
20	64QAM	1	49	18.96	18.95	18.92		
20	64QAM	1	99	18.71	18.70	18.96		
20	64QAM	50	0	18.79	18.94	18.94	19.8	0
20	64QAM	50	24	18.88	18.99	18.95		
20	64QAM	50	50	18.77	18.89	18.88		
20	64QAM	100	0	18.80	18.88	18.90	18.8	0
20	256QAM	1	0	18.40	18.49	18.45		
20	256QAM	1	49	18.31	18.43	18.46		
20	256QAM	1	99	18.18	18.24	18.28	18.8	0
20	256QAM	50	0	18.36	18.48	18.50		
20	256QAM	50	24	18.45	18.49	18.48		
20	256QAM	50	50	18.37	18.44	18.44	18.8	0
20	256QAM	100	0	18.40	18.45	18.42		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.58	18.76	18.94	19.8	0
15	QPSK	1	37	18.65	18.80	18.82		
15	QPSK	1	74	18.54	18.65	18.78		
15	QPSK	36	0	18.77	18.90	18.95	19.8	0
15	QPSK	36	20	18.87	18.91	19.00		
15	QPSK	36	39	18.76	18.89	18.88		
15	QPSK	75	0	18.77	18.85	18.96	19.8	0
15	16QAM	1	0	18.92	18.94	18.94		
15	16QAM	1	37	19.01	18.96	18.94		
15	16QAM	1	74	18.80	18.89	18.88	19.8	0
15	16QAM	36	0	18.77	18.99	18.96		
15	16QAM	36	20	18.85	18.97	18.93		
15	16QAM	36	39	18.76	18.90	18.91	19.8	0
15	16QAM	75	0	18.82	18.86	18.98		
15	64QAM	1	0	18.80	18.95	18.89		
15	64QAM	1	37	18.92	18.92	18.96	19.8	0
15	64QAM	1	74	18.73	18.88	18.89		
15	64QAM	36	0	18.80	18.97	18.80		
15	64QAM	36	20	18.89	18.95	18.80	19.8	0
15	64QAM	36	39	18.81	18.90	18.81		
15	64QAM	75	0	18.84	18.90	18.76		



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15	256QAM	1	0	18.37	18.48	18.44	18.8	0
15	256QAM	1	37	18.31	18.37	18.40		
15	256QAM	1	74	18.16	18.21	18.27		
15	256QAM	36	0	18.34	18.45	18.43	18.8	0
15	256QAM	36	20	18.45	18.43	18.46		
15	256QAM	36	39	18.30	18.41	18.37		
15	256QAM	75	0	18.38	18.38	18.35	Tune-up limit (dBm)	MPR (dB)
Channel				132022	132322	132622		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.35	18.65	18.61	19.8	0
10	QPSK	1	25	18.64	18.85	18.81		
10	QPSK	1	49	18.43	18.58	18.58		
10	QPSK	25	0	18.69	18.85	18.85	19.8	0
10	QPSK	25	12	18.81	18.90	18.98		
10	QPSK	25	25	18.73	18.88	18.85		
10	QPSK	50	0	18.78	18.82	18.85	19.8	0
10	16QAM	1	0	18.69	18.75	18.73		
10	16QAM	1	25	18.95	18.96	19.01		
10	16QAM	1	49	18.67	18.69	18.73	19.8	0
10	16QAM	25	0	18.74	18.85	18.85		
10	16QAM	25	12	18.85	18.95	18.99		
10	16QAM	25	25	18.71	18.89	18.87	19.8	0
10	16QAM	50	0	18.79	18.84	18.87		
10	64QAM	1	0	18.38	18.64	18.57		
10	64QAM	1	25	18.80	18.96	18.96	19.8	0
10	64QAM	1	49	18.50	18.70	18.62		
10	64QAM	25	0	18.74	18.88	18.91	19.8	0
10	64QAM	25	12	18.87	18.95	19.03		
10	64QAM	25	25	18.77	18.88	18.90		
10	64QAM	50	0	18.79	18.87	18.89	18.8	0
10	256QAM	1	0	18.28	18.47	18.40		
10	256QAM	1	25	18.27	18.35	18.38		
10	256QAM	1	49	18.11	18.18	18.19	18.8	0
10	256QAM	25	0	18.29	18.38	18.33		
10	256QAM	25	12	18.39	18.41	18.40		
10	256QAM	25	25	18.24	18.33	18.31	Tune-up limit (dBm)	MPR (dB)
10	256QAM	50	0	18.28	18.34	18.27		
Channel				131997	132322	132647		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.73	18.77	18.84	19.8	0
5	QPSK	1	12	18.72	18.90	18.88		
5	QPSK	1	24	18.63	18.76	18.79		
5	QPSK	12	0	18.84	18.94	18.94	19.8	0
5	QPSK	12	7	18.83	18.97	18.91		
5	QPSK	12	13	18.78	18.90	18.89		
5	QPSK	25	0	18.77	18.88	18.89	19.8	0
5	16QAM	1	0	18.85	18.89	18.97		
5	16QAM	1	12	18.79	18.90	18.98		
5	16QAM	1	24	18.72	18.89	18.86	19.8	0
5	16QAM	12	0	18.88	18.98	18.99		
5	16QAM	12	7	18.87	19.03	18.99		
5	16QAM	12	13	18.81	18.96	18.93	19.8	0
5	16QAM	25	0	18.81	18.93	18.90		
5	64QAM	1	0	18.81	18.87	18.91		
5	64QAM	1	12	18.75	18.91	18.92	19.8	0
5	64QAM	1	24	18.67	18.83	18.85		



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5	64QAM	12	0	18.92	19.03	19.03	19.8	0
5	64QAM	12	7	18.89	19.05	19.00		
5	64QAM	12	13	18.81	19.01	19.01		
5	64QAM	25	0	18.84	18.92	18.94		
5	256QAM	1	0	18.24	18.47	18.35	18.8	0
5	256QAM	1	12	18.26	18.29	18.32		
5	256QAM	1	24	18.07	18.16	18.11		
5	256QAM	12	0	18.27	18.35	18.24	18.8	0
5	256QAM	12	7	18.36	18.40	18.39		
5	256QAM	12	13	18.18	18.27	18.27		
5	256QAM	25	0	18.28	18.31	18.27		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.75	18.84	18.91	19.8	0
3	QPSK	1	8	18.77	18.91	18.88		
3	QPSK	1	14	18.63	18.81	18.76		
3	QPSK	8	0	18.85	18.94	18.96	19.8	0
3	QPSK	8	4	18.85	18.99	18.97		
3	QPSK	8	7	18.75	18.91	18.92		
3	QPSK	15	0	18.79	18.86	18.91		
3	16QAM	1	0	18.92	18.99	19.00	19.8	0
3	16QAM	1	8	18.90	18.93	18.93		
3	16QAM	1	14	18.82	18.95	18.87		
3	16QAM	8	0	18.73	18.77	18.85	19.8	0
3	16QAM	8	4	18.69	18.82	18.83		
3	16QAM	8	7	18.64	18.79	18.78		
3	16QAM	15	0	18.63	18.76	18.75		
3	64QAM	1	0	18.81	18.86	19.00	19.8	0
3	64QAM	1	8	18.84	18.96	19.00		
3	64QAM	1	14	18.70	18.83	18.89		
3	64QAM	8	0	18.74	18.79	18.86	19.8	0
3	64QAM	8	4	18.73	18.88	18.86		
3	64QAM	8	7	18.67	18.77	18.76		
3	64QAM	15	0	18.63	18.71	18.78		
3	256QAM	1	0	18.21	18.45	18.30	18.8	0
3	256QAM	1	8	18.16	18.27	18.25		
3	256QAM	1	14	18.00	18.11	18.06		
3	256QAM	8	0	18.21	18.31	18.23	18.8	0
3	256QAM	8	4	18.36	18.32	18.31		
3	256QAM	8	7	18.16	18.17	18.17		
3	256QAM	15	0	18.24	18.28	18.21		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.64	18.83	18.80	19.8	0
1.4	QPSK	1	3	18.70	18.86	18.85		
1.4	QPSK	1	5	18.59	18.74	18.74		
1.4	QPSK	3	0	18.66	18.79	18.89		
1.4	QPSK	3	1	18.66	18.83	18.83		
1.4	QPSK	3	3	18.65	18.77	18.77	19.8	0
1.4	QPSK	6	0	18.72	18.89	18.88		
1.4	16QAM	1	0	18.79	18.97	18.92	19.8	0
1.4	16QAM	1	3	18.88	18.87	18.94		
1.4	16QAM	1	5	18.81	18.90	18.92		
1.4	16QAM	3	0	18.58	18.69	18.72		
1.4	16QAM	3	1	18.64	18.74	18.75		
1.4	16QAM	3	3	18.53	18.63	18.67		



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1.4	16QAM	6	0	18.83	18.99	18.98	19.8	0
1.4	64QAM	1	0	18.65	18.86	18.61	19.8	0
1.4	64QAM	1	3	18.71	18.93	18.67		
1.4	64QAM	1	5	18.59	18.79	18.64		
1.4	64QAM	3	0	18.71	18.89	18.59		
1.4	64QAM	3	1	18.73	18.86	18.59		
1.4	64QAM	3	3	18.66	18.85	18.59		
1.4	64QAM	6	0	18.75	18.91	18.69	19.8	0
1.4	256QAM	1	0	18.12	18.45	18.22	18.8	0
1.4	256QAM	1	3	18.11	18.25	18.15		
1.4	256QAM	1	5	17.91	18.05	18.01		
1.4	256QAM	3	0	18.20	18.24	18.18		
1.4	256QAM	3	1	18.30	18.27	18.30		
1.4	256QAM	3	3	18.08	18.11	18.12		
1.4	256QAM	6	0	18.20	18.22	18.15	18.8	0



<LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.58	23.65	23.62	23.8	0
20	QPSK	1	49	23.55	23.62	23.55		
20	QPSK	1	99	23.42	23.45	23.47		
20	QPSK	50	0	22.53	22.66	22.61	22.8	1
20	QPSK	50	24	22.51	22.69	22.53		
20	QPSK	50	50	22.46	22.55	22.48		
20	QPSK	100	0	22.43	22.49	22.46	22.8	1
20	16QAM	1	0	22.65	22.67	22.52		
20	16QAM	1	49	22.56	22.61	22.57		
20	16QAM	1	99	22.47	22.52	22.44	21.8	2
20	16QAM	50	0	21.59	21.66	21.53		
20	16QAM	50	24	21.48	21.59	21.50		
20	16QAM	50	50	21.46	21.53	21.56	21.8	2
20	16QAM	100	0	21.38	21.40	21.44		
20	64QAM	1	0	21.59	21.73	21.71		
20	64QAM	1	49	21.62	21.66	21.63	21.8	2
20	64QAM	1	99	21.68	21.62	21.61		
20	64QAM	50	0	20.48	20.60	20.57	20.8	3
20	64QAM	50	24	20.57	20.65	20.54		
20	64QAM	50	50	20.60	20.57	20.43		
20	64QAM	100	0	20.46	20.46	20.50	20.8	2
20	256QAM	1	0	21.59	21.73	21.71		
20	256QAM	1	49	21.62	21.66	21.63		
20	256QAM	1	99	21.68	21.62	21.61	19.8	3
20	256QAM	50	0	20.48	20.60	20.57		
20	256QAM	50	24	20.57	20.65	20.54		
20	256QAM	50	50	20.60	20.57	20.43	20.8	3
20	256QAM	100	0	20.46	20.46	20.50		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.55	23.61	23.59	23.8	0
15	QPSK	1	37	23.51	23.56	23.53		
15	QPSK	1	74	23.44	23.40	23.33		
15	QPSK	36	0	22.64	22.69	22.71	22.8	1
15	QPSK	36	20	22.56	22.60	22.63		
15	QPSK	36	39	22.52	22.57	22.49		
15	QPSK	75	0	22.52	22.54	22.45	22.8	1
15	16QAM	1	0	22.77	22.73	22.65		
15	16QAM	1	37	22.73	22.60	22.78		
15	16QAM	1	74	22.54	22.77	22.67	21.8	2
15	16QAM	36	0	21.78	21.71	21.77		
15	16QAM	36	20	21.59	21.68	21.56		
15	16QAM	36	39	21.56	21.62	21.52	21.8	2
15	16QAM	75	0	21.44	21.58	21.49		
15	64QAM	1	0	21.70	21.66	21.80		
15	64QAM	1	37	21.68	21.62	21.67	21.8	2
15	64QAM	1	74	21.57	21.57	21.62		
15	64QAM	36	0	20.41	20.58	20.55	20.8	3
15	64QAM	36	20	20.56	20.61	20.54		
15	64QAM	36	39	20.48	20.55	20.55		
15	64QAM	75	0	20.53	20.41	20.49	20.8	3



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15	256QAM	1	0	21.70	21.66	21.80	20.8	2
15	256QAM	1	37	21.68	21.62	21.67		
15	256QAM	1	74	21.57	21.57	21.62		
15	256QAM	36	0	20.41	20.58	20.55	19.8	3
15	256QAM	36	20	20.56	20.61	20.54		
15	256QAM	36	39	20.48	20.55	20.55		
15	256QAM	75	0	20.53	20.41	20.49	Tune-up limit (dBm)	MPR (dB)
Channel				133172	133272	133422		
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.44	23.49	23.50	23.8	0
10	QPSK	1	25	23.35	23.37	23.45		
10	QPSK	1	49	23.29	23.21	23.32		
10	QPSK	25	0	22.42	22.40	22.44	22.8	1
10	QPSK	25	12	22.46	22.51	22.56		
10	QPSK	25	25	22.50	22.46	22.45		
10	QPSK	50	0	22.34	22.43	22.39	22.8	1
10	16QAM	1	0	22.64	22.71	22.57		
10	16QAM	1	25	22.59	22.56	22.62		
10	16QAM	1	49	22.73	22.52	22.53	21.8	2
10	16QAM	25	0	21.30	21.54	21.44		
10	16QAM	25	12	21.38	21.47	21.50		
10	16QAM	25	25	21.40	21.43	21.40	21.8	2
10	16QAM	50	0	21.25	21.36	21.44		
10	64QAM	1	0	21.45	21.55	21.63		
10	64QAM	1	25	21.56	21.45	21.52	21.8	2
10	64QAM	1	49	21.60	21.51	21.44		
10	64QAM	25	0	20.27	20.26	20.41	20.8	3
10	64QAM	25	12	20.48	20.45	20.34		
10	64QAM	25	25	20.31	20.35	20.40		
10	64QAM	50	0	20.32	20.35	20.33	20.8	2
10	256QAM	1	0	21.45	21.55	21.63		
10	256QAM	1	25	21.56	21.45	21.52		
10	256QAM	1	49	21.60	21.51	21.44	19.8	3
10	256QAM	25	0	20.27	20.26	20.41		
10	256QAM	25	12	20.48	20.45	20.34		
10	256QAM	25	25	20.31	20.35	20.40	20.32	20.35
10	256QAM	50	0	20.32	20.35	20.33		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.45	23.50	23.53	23.8	0
5	QPSK	1	12	23.43	23.40	23.43		
5	QPSK	1	24	23.29	23.39	23.40		
5	QPSK	12	0	22.56	22.43	22.45	22.8	1
5	QPSK	12	7	22.41	22.39	22.34		
5	QPSK	12	13	22.50	22.48	22.43		
5	QPSK	25	0	22.39	22.43	22.39	22.8	1
5	16QAM	1	0	22.52	22.49	22.51		
5	16QAM	1	12	22.53	22.43	22.39		
5	16QAM	1	24	22.43	22.46	22.33	21.8	2
5	16QAM	12	0	21.44	21.37	21.42		
5	16QAM	12	7	21.50	21.48	21.43		
5	16QAM	12	13	21.39	21.43	21.39	21.8	2
5	16QAM	25	0	21.34	21.44	21.29		
5	64QAM	1	0	21.40	21.27	21.31		
5	64QAM	1	12	21.44	21.47	21.37	21.8	2
5	64QAM	1	24	21.48	21.52	21.44		



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5	64QAM	12	0	20.31	20.34	20.25	20.8	3
5	64QAM	12	7	20.36	20.43	20.40		
5	64QAM	12	13	20.38	20.41	20.34		
5	64QAM	25	0	20.41	20.43	20.23		
5	256QAM	1	0	21.40	21.27	21.31	20.8	2
5	256QAM	1	12	21.44	21.47	21.37		
5	256QAM	1	24	21.48	21.52	21.44		
5	256QAM	12	0	20.31	20.34	20.25	19.8	3
5	256QAM	12	7	20.36	20.43	20.40		
5	256QAM	12	13	20.38	20.41	20.34		
5	256QAM	25	0	20.41	20.43	20.23		