

TEST REPORT

Reference No...... : WTS20S05031389W005
FCC ID : 2AIZN-X682B
Applicant..... : INFINIX MOBILITY LIMITED
Address..... : ROOM 604 6/F SOUTH TOWER WORLD, FINANCE CTR HARBOUR CITY 17 CANTON ROAD TST KL, Hong Kong
Manufacturer : SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address..... : 101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R. China
Product..... : Mobile Phone
Model(s) : X682B
Brand Name..... : Infinix
Standards..... : FCC CFR47 Part 22 Subpart H: 2018
FCC CFR47 Part 24 Subpart E: 2018
FCC CFR47 Part 27 Subpart L: 2018
Date of Receipt sample : 2020-05-27
Date of Test : 2020-05-28 to 2020-06-09
Date of Issue..... : 2020-06-10
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS20S05031 389W005	2020-05-27	2020-05-28 to 2020-06-09	2020-06-10	original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Mobile Phone
Model(s):	X682B
Model Description:	N/A
GSM Band(s):	GSM 850/900/1800/1900MHz
GPRS/EGPRS Class:	12
WCDMA Band(s):	FDD Band II/IV/V
LTE Band(s):	FDD Band 2/4/5/7 TDD Band 41
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40 5G-802.11a/n(HT20/40)/ac(HT20/40/80)
Bluetooth Version:	Bluetooth v5.0 with BLE
GPS:	Support
NFC:	N/A
Hardware Version:	V1.1
Software Version:	X682B-H694ABT-Q-GL-200514V061
Highest frequency (Exclude Radio):	26MHz
Storage Location:	Internal Storage
Note:	N/A

4.2 Details of E.U.T.

Operation Frequency:	LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 5: 824~849MHz LTE Band 7: 2500-257MHz LTE Band 41: 2496~2690MHz
Max. RF output power:	LTE Band 2: 23.47dBm LTE Band 4: 23.36dBm LTE Band 5: 23.99dBm LTE Band 7: 23.83dBm LTE Band 41: 23.92dBm
Type of Modulation:	LTE: QPSK, 16QAM
Antenna installation:	LTE: internal permanent antenna
Antenna Gain:	LTE Band 2: 0.4dBi LTE Band 4: -1.2dBi LTE Band 5: -2.1dBi LTE Band 7: 0.4dBi

	LTE Band 41: 0.7dBi
Ratings:	Battery DC 3.8V, 5100mAh DC 5V, 2.0A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.3A)
Adapter:	Manufacturer: Shenzhen Baijunda Electronics Co., Ltd. Model No.: U100XSA
Type of Emission:	LTE Band 2 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM) LTE Band 2 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM) LTE Band 2 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM) LTE Band 2 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM) LTE Band 2 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM) LTE Band 2 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM) LTE Band 4 1.4MHz: 1M09G7D(QPSK), 1M08W7D(16QAM) LTE Band 4 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM) LTE Band 4 5MHz: 4M49G7D(QPSK), 4M48W7D(16QAM) LTE Band 4 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM) LTE Band 4 15MHz: 13M5G7D(QPSK), 13M4W7D(16QAM) LTE Band 4 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM) LTE Band 5 1.4MHz: 1M09G7D(QPSK), 1M09W7D(16QAM) LTE Band 5 3MHz: 2M68G7D(QPSK), 2M68W7D(16QAM) LTE Band 5 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM) LTE Band 5 10 MHz: 8M93G7D(QPSK), 8M92W7D(16QAM) LTE Band 7 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM) LTE Band 7 10 MHz: 8M93G7D(QPSK), 8M92W7D(16QAM) LTE Band 7 15MHz: 13M5G7D(QPSK), 13M5W7D(16QAM) LTE Band 7 20MHz: 17M9G7D(QPSK), 17M9W7D(16QAM) LTE Band 41 5MHz: 4M49G7D(QPSK), 4M49W7D(16QAM) LTE Band 41 10 MHz: 8M92G7D(QPSK), 8M92W7D(16QAM) LTE Band 41 15 MHz: 13M4G7D(QPSK), 13M4W7D(16QAM) LTE Band 41 20 MHz: 17M9G7D(QPSK), 17M9W7D(16QAM)

4.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Support Band	Test Mode BW(MHz)	Channel Frequency	Channel Number
LTE Band 2	1.4	1850.7 MHz	18607
		1880.0 MHz	18900
		1909.3 MHz	19193
	3	1851.5 MHz	18615
		1880.0 MHz	18900
		1908.5 MHz	19185

	5	1852.5 MHz	18625
		1880.0 MHz	18900
		1907.5 MHz	19175
	10	1855.0 MHz	18650
		1880.0 MHz	18900
		1905.0 MHz	19150
	15	1857.5 MHz	18675
		1880.0 MHz	18900
		1902.5 MHz	19125
	20	1860.0 MHz	18700
		1880.0 MHz	18900
		1900.0 MHz	19100
LTE Band 4	1.4	1710.7 MHz	19957
		1732.5 MHz	20175
		1754.3 MHz	20393
	3	1711.5 MHz	19965
		1732.5 MHz	20175
		1753.5 MHz	20385
	5	1712.5 MHz	19975
		1732.5 MHz	20175
		1752.5 MHz	20375
	10	1715.0 MHz	20000
		1732.5 MHz	20175
		1750.0 MHz	20350
	15	1717.5 MHz	20025
		1732.5 MHz	20175
		1747.5 MHz	20325
	20	1720.0 MHz	20050
		1732.5 MHz	20175
		1745.0 MHz	20300
LTE Band 5	1.4	824.7 MHz	20407
		836.5 MHz	20525
		848.3 MHz	20643
	3	825.5 MHz	20415
		836.5 MHz	20525
		847.5 MHz	20635
	5	826.5 MHz	20425
		836.5 MHz	20525
		846.5 MHz	20625
	10	829.0 MHz	20450
		836.5 MHz	20525
		844.0 MHz	20600
LTE Band 7	5	2502.5 MHz	20775
		2535.0 MHz	21100
		2567.5 MHz	21425
	10	2505.0 MHz	20800

		2535.0 MHz	21100
		2565.0 MHz	21400
	15	2507.5 MHz	20825
		2535.0 MHz	21100
		2562.5 MHz	21375
	20	2510.0 MHz	20850
		2535.0 MHz	21100
		2560.0 MHz	21350
LTE Band 41	5	2498.5 MHz	39675
		2593.0 MHz	40620
		2687.5MHz	41565
	10	2501.0 MHz	39700
		2593.0 MHz	40620
		2685.0 MHz	41540
	15	2503.5 MHz	39725
		2593.0 MHz	40620
		2682.5 MHz	41515
	20	2687.5 MHz	39750
2593.0 MHz		40620	
2680.0 MHz		41490	
Remark: All mode(s) were tested and the worst data was recorded.			

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Test Summary

Test Items	Test Requirement	Result
RF Output Power	2.1046 22.913 (a) 24.232 (c) 27.50(h.2) 27.50(d.4)	PASS
Peak-to-Average Ratio	24.232 (d) 27.50(d)	PASS
Bandwidth	2.1049 22.905 22.917 24.238 27.53(a)	PASS
Spurious Emissions at Antenna Terminal	2.1051 22.917 (a) 24.238 (a) 27.53(h) 27.53(m)(4)	PASS
Field Strength of Spurious Radiation	2.1053 22.917 (a) 24.238 (a) 27.53(h) 27.53(m)(4)	PASS
Out of band emission	22.917 (a) 24.238 (a) 27.53(h) 27.53(m)(4)	PASS
Frequency Stability	2.1055 22.355 24.235 27.5(h) 27.54	PASS
Maximum Permissible Exposure (SAR)	1.1307 2.1093	PASS

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	2019-09-12	2020-09-11
2.	LISN	R&S	ENV216	101215	2019-09-12	2020-09-11
3.	Cable	Top	TYPE16(3.5M)	-	2019-09-12	2020-09-11
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	2019-09-12	2020-09-11
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2019-09-12	2020-09-11
3.	Limiter	York	MTS-IMP-136	261115-001-0024	2019-09-12	2020-09-11
4.	Cable	LARGE	RF300	-	2019-09-12	2020-09-11
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2020-04-29	2021-04-28
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2020-04-09	2021-04-08
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2020-04-09	2021-04-08
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2019-09-12	2020-09-11
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2020-04-09	2021-04-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2020-04-09	2021-04-08
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2020-04-13	2021-04-12
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	2020-04-13	2021-04-12
9	Signal Generator	R&S	SMR20	100046	2019-09-12	2020-09-11
10	Smart Antenna	SCHWARZBECK	HA08	-	2020-04-09	2021-04-08
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2020-04-13	2021-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2020-04-09	2021-04-08

3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	2020-04-13	2021-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2020-04-13	2021-04-12
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2019-09-12	2020-09-11
2.	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019-09-12	2020-09-11
3.	Universal Radio Communication Tester	R&S	CMW 500	127818	2020-04-13	2021-04-12
4	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2019-09-12	2020-09-11

6.2 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

7 RF OUTPUT POWER

Test Requirement:	FCC Part 2.1046, 22.913 (a), 24.232 (c), 27.50(h.2); 27.50(d.4)
Test Method:	ANSI C63.26:2015 TIA/EIA-603-E:2016
Test Mode:	TX transmitting

7.1 EUT Operation

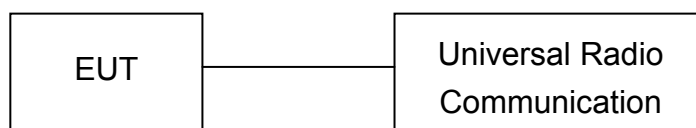
Operating Environment :

Temperature:	22.5 °C
Humidity:	52.1 % RH
Atmospheric Pressure:	101.2kPa

7.2 Test Procedure

Conducted method:

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.



Radiated method:

1. The setup of EUT is according with per TIA/EIA Standard 603D:2010.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

7.3 Test Result

Conducted Power

LTE Band 2:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	18607	1850.7	QPSK	1	0	22.98	22.5±1	/
				1	2	23.07	22.5±1	/
				1	5	22.99	22.5±1	/
				3	0	23.05	22.5±1	/
				3	1	23.06	22.5±1	/
				3	2	22.98	22.5±1	/
				6	0	22.04	21.5±1	1.0
			16QAM	1	0	22.09	21.5±1	1.0
				1	2	22.23	21.5±1	1.0
				1	5	22.03	21.5±1	1.0
				3	0	22.06	21.5±1	1.0
				3	1	22.08	21.5±1	1.0
				3	2	22.02	21.5±1	1.0
				6	0	21.19	21.5±1	1.0
	18900	1880	QPSK	1	0	23.09	22.5±1	/
				1	2	23.29	22.5±1	/
				1	5	23.08	22.5±1	/
				3	0	23.1	22.5±1	/
				3	1	23.14	22.5±1	/
				3	2	23.12	22.5±1	/
				6	0	22.16	21.5±1	1.0
			16QAM	1	0	22.35	21.5±1	1.0
				1	2	22.47	21.5±1	1.0
				1	5	22.36	21.5±1	1.0
				3	0	21.99	21.5±1	1.0
				3	1	22.08	21.5±1	1.0
				3	2	22.06	21.5±1	1.0
				6	0	20.91	21.5±1	1.0
	19193	1909.3	QPSK	1	0	22.59	22.5±1	/
				1	2	23.05	22.5±1	/
				1	5	22.87	22.5±1	/
				3	0	22.91	22.5±1	/
				3	1	22.95	22.5±1	/
				3	2	22.89	22.5±1	/
				6	0	21.91	21.5±1	1.0
			16QAM	1	0	21.77	21.5±1	1.0
				1	2	21.89	21.5±1	1.0
				1	5	21.78	21.5±1	1.0
				3	0	21.99	21.5±1	1.0
				3	1	22.03	21.5±1	1.0
				3	2	21.97	21.5±1	1.0
				6	0	21.04	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	18615	1851.5	QPSK	1	0	22.68	22.5±1	/
				1	8	22.58	22.5±1	/
				1	14	22.69	22.5±1	/
				6	0	21.66	21.5±1	1.0
				6	4	21.68	21.5±1	1.0
				6	9	21.61	21.5±1	1.0
				15	0	21.63	21.5±1	1.0
			16QAM	1	0	21.61	21.5±1	1.0
				1	8	21.51	21.5±1	1.0
				1	14	21.59	21.5±1	1.0
				6	0	20.8	21.5±1	1.0
				6	4	20.81	21.5±1	1.0
				6	9	20.78	21.5±1	1.0
				15	0	20.72	21.5±1	1.0
	18900	1880	QPSK	1	0	22.81	22.5±1	/
				1	8	22.76	22.5±1	/
				1	14	22.83	22.5±1	/
				6	0	21.8	21.5±1	1.0
				6	4	21.83	21.5±1	1.0
				6	9	21.78	21.5±1	1.0
				15	0	21.76	21.5±1	1.0
			16QAM	1	0	22.09	21.5±1	1.0
				1	8	22.05	21.5±1	1.0
				1	14	22.1	21.5±1	1.0
				6	0	20.87	21.5±1	1.0
				6	4	20.89	21.5±1	1.0
				6	9	20.83	21.5±1	1.0
				15	0	20.81	21.5±1	1.0
	19185	1908.5	QPSK	1	0	22.78	22.5±1	/
				1	8	22.69	22.5±1	/
				1	14	22.72	22.5±1	/
				6	0	21.66	21.5±1	1.0
				6	4	21.67	21.5±1	1.0
				6	9	21.63	21.5±1	1.0
				15	0	21.63	21.5±1	1.0
			16QAM	1	0	21.65	21.5±1	1.0
				1	8	21.51	21.5±1	1.0
				1	14	21.55	21.5±1	1.0
				6	0	20.7	21.5±1	1.0
				6	4	20.75	21.5±1	1.0
				6	9	20.66	21.5±1	1.0
				15	0	20.59	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	18625	1852.5	QPSK	1	0	22.77	22.5±1	/
				1	12	22.78	22.5±1	/
				1	24	22.76	22.5±1	/
				12	0	21.7	21.5±1	1.0
				12	6	21.76	21.5±1	1.0
				12	11	21.75	21.5±1	1.0
				25	0	21.71	21.5±1	1.0
			16QAM	1	0	21.89	21.5±1	1.0
				1	12	21.9	21.5±1	1.0
				1	24	21.91	21.5±1	1.0
				12	0	20.79	21.5±1	1.0
				12	6	20.83	21.5±1	1.0
				12	11	20.84	21.5±1	1.0
				25	0	20.78	21.5±1	1.0
	18900	1880	QPSK	1	0	22.88	22.5±1	/
				1	12	22.83	22.5±1	/
				1	24	22.85	22.5±1	/
				12	0	21.8	21.5±1	1.0
				12	6	21.83	21.5±1	1.0
				12	11	21.73	21.5±1	1.0
				25	0	21.79	21.5±1	1.0
			16QAM	1	0	22.3	21.5±1	1.0
				1	12	22.26	21.5±1	1.0
				1	24	22.26	21.5±1	1.0
				12	0	20.97	21.5±1	1.0
				12	6	20.98	21.5±1	1.0
				12	11	20.91	21.5±1	1.0
				25	0	20.92	21.5±1	1.0
	19175	1907.5	QPSK	1	0	22.76	22.5±1	/
				1	12	22.71	22.5±1	/
				1	24	22.72	22.5±1	/
				12	0	21.68	21.5±1	1.0
				12	6	21.68	21.5±1	1.0
				12	11	21.66	21.5±1	1.0
				25	0	21.62	21.5±1	1.0
			16QAM	1	0	21.77	21.5±1	1.0
				1	12	21.72	21.5±1	1.0
				1	24	21.7	21.5±1	1.0
				12	0	20.74	21.5±1	1.0
				12	6	20.75	21.5±1	1.0
				12	11	20.68	21.5±1	1.0
				25	0	20.63	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	18650	1855	QPSK	1	0	22.82	22.5±1	/
				1	24	22.92	22.5±1	/
				1	49	22.83	22.5±1	/
				25	0	21.75	21.5±1	1.0
				25	12	21.82	21.5±1	1.0
				25	24	21.83	21.5±1	1.0
				50	0	21.82	21.5±1	1.0
			16QAM	1	0	21.74	21.5±1	1.0
				1	24	21.85	21.5±1	1.0
				1	49	21.67	21.5±1	1.0
				25	0	20.8	21.5±1	1.0
				25	12	20.89	21.5±1	1.0
				25	24	20.87	21.5±1	1.0
				50	0	20.83	21.5±1	1.0
	18900	1880	QPSK	1	0	22.92	22.5±1	/
				1	24	23.02	22.5±1	/
				1	49	22.87	22.5±1	/
				25	0	21.92	21.5±1	1.0
				25	12	21.85	21.5±1	1.0
				25	24	21.81	21.5±1	1.0
				50	0	21.86	21.5±1	1.0
			16QAM	1	0	22.16	21.5±1	1.0
				1	24	22.28	21.5±1	1.0
				1	49	22.13	21.5±1	1.0
				25	0	20.98	21.5±1	1.0
				25	12	20.93	21.5±1	1.0
				25	24	20.89	21.5±1	1.0
				50	0	20.9	21.5±1	1.0
	19150	1905	QPSK	1	0	22.77	22.5±1	/
				1	24	22.96	22.5±1	/
				1	49	22.8	22.5±1	/
				25	0	21.77	21.5±1	1.0
				25	12	21.75	21.5±1	1.0
				25	24	21.69	21.5±1	1.0
				50	0	21.7	21.5±1	1.0
			16QAM	1	0	21.67	21.5±1	1.0
				1	24	21.8	21.5±1	1.0
				1	49	21.64	21.5±1	1.0
				25	0	20.88	21.5±1	1.0
				25	12	20.86	21.5±1	1.0
				25	24	20.69	21.5±1	1.0
				50	0	20.75	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	18675	1857.5	QPSK	1	0	22.8	22.5±1	/
				1	37	22.83	22.5±1	/
				1	74	22.83	22.5±1	/
				36	0	21.84	21.5±1	1.0
				36	16	21.92	21.5±1	1.0
				36	35	21.93	21.5±1	1.0
				75	0	21.87	21.5±1	1.0
			16QAM	1	0	21.69	21.5±1	1.0
				1	37	21.7	21.5±1	1.0
				1	74	21.64	21.5±1	1.0
				36	0	20.84	21.5±1	1.0
				36	16	20.88	21.5±1	1.0
				36	35	20.88	21.5±1	1.0
				75	0	20.88	21.5±1	1.0
	18900	1880	QPSK	1	0	22.89	22.5±1	/
				1	37	22.92	22.5±1	/
				1	74	22.81	22.5±1	/
				36	0	22.06	21.5±1	1.0
				36	16	21.98	21.5±1	1.0
				36	35	21.93	21.5±1	1.0
				75	0	22.02	21.5±1	1.0
			16QAM	1	0	22.15	21.5±1	1.0
				1	37	22.2	21.5±1	1.0
				1	74	22.13	21.5±1	1.0
				36	0	21.04	21.5±1	1.0
				36	16	20.99	21.5±1	1.0
				36	35	20.95	21.5±1	1.0
				75	0	21	21.5±1	1.0
	19125	1902.5	QPSK	1	0	22.79	22.5±1	/
				1	37	22.8	22.5±1	/
				1	74	22.75	22.5±1	/
				36	0	21.84	21.5±1	1.0
				36	16	21.86	21.5±1	1.0
				36	35	21.85	21.5±1	1.0
				75	0	21.86	21.5±1	1.0
			16QAM	1	0	22.08	21.5±1	1.0
				1	37	22.04	21.5±1	1.0
				1	74	21.91	21.5±1	1.0
				36	0	20.81	21.5±1	1.0
				36	16	20.82	21.5±1	1.0
				36	35	20.64	21.5±1	1.0
				75	0	20.82	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	18700	1860	QPSK	1	0	22.74	22.5±1	/
				1	49	23.36	22.5±1	/
				1	99	22.77	22.5±1	/
				50	0	21.84	21.5±1	1.0
				50	24	22.42	21.5±1	1.0
				50	49	21.91	21.5±1	1.0
				100	0	21.89	21.5±1	1.0
			16QAM	1	0	22.23	21.5±1	1.0
				1	49	22.53	21.5±1	1.0
				1	99	22.22	21.5±1	1.0
				50	0	20.95	21.5±1	1.0
				50	24	21	21.5±1	1.0
				50	49	20.99	21.5±1	1.0
				100	0	20.97	21.5±1	1.0
	18900	1880	QPSK	1	0	22.86	22.5±1	/
				1	49	23.47	22.5±1	/
				1	99	22.76	22.5±1	/
				50	0	22.07	21.5±1	1.0
				50	24	22.37	21.5±1	1.0
				50	49	21.86	21.5±1	1.0
				100	0	21.98	21.5±1	1.0
			16QAM	1	0	22.14	21.5±1	1.0
				1	49	22.4	21.5±1	1.0
				1	99	22.11	21.5±1	1.0
				50	0	21.08	21.5±1	1.0
				50	24	21	21.5±1	1.0
				50	49	20.96	21.5±1	1.0
				100	0	21.06	21.5±1	1.0
	19100	1900	QPSK	1	0	22.64	22.5±1	/
				1	49	23.28	22.5±1	/
				1	99	22.62	22.5±1	/
				50	0	21.91	21.5±1	1.0
				50	24	21.82	21.5±1	1.0
				50	49	21.73	21.5±1	1.0
				100	0	21.82	21.5±1	1.0
			16QAM	1	0	22.01	21.5±1	1.0
				1	49	22.23	21.5±1	1.0
				1	99	21.91	21.5±1	1.0
				50	0	20.88	21.5±1	1.0
				50	24	20.87	21.5±1	1.0
				50	49	20.75	21.5±1	1.0
				100	0	20.86	21.5±1	1.0

LTE Band 4:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	19957	1710.7	QPSK	1	0	22.88	22.5±1	/
				1	2	23.05	22.5±1	/
				1	5	22.87	22.5±1	/
				3	0	22.92	22.5±1	/
				3	1	22.97	22.5±1	/
				3	2	22.97	22.5±1	/
				6	0	21.96	21.5±1	1.0
			16QAM	1	0	22.05	21.5±1	1.0
				1	2	22.16	21.5±1	1.0
				1	5	22.03	21.5±1	1.0
				3	0	21.96	21.5±1	1.0
				3	1	22.01	21.5±1	1.0
				3	2	21.97	21.5±1	1.0
				6	0	21.14	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.9	22.5±1	/
				1	2	23.06	22.5±1	/
				1	5	22.93	22.5±1	/
				3	0	22.94	22.5±1	/
				3	1	22.98	22.5±1	/
				3	2	22.94	22.5±1	/
				6	0	21.99	21.5±1	1.0
			16QAM	1	0	22.33	21.5±1	1.0
				1	2	22.47	21.5±1	1.0
				1	5	22.32	21.5±1	1.0
				3	0	22.19	21.5±1	1.0
				3	1	22.14	21.5±1	1.0
				3	2	22.21	21.5±1	1.0
				6	0	20.87	21.5±1	1.0
	20393	1754.3	QPSK	1	0	22.88	22.5±1	/
				1	2	23.06	22.5±1	/
				1	5	22.89	22.5±1	/
				3	0	22.98	22.5±1	/
				3	1	23.04	22.5±1	/
				3	2	22.98	22.5±1	/
			16QAM	6	0	21.95	21.5±1	1.0
				1	0	21.99	21.5±1	1.0
				1	2	22.14	21.5±1	1.0
				1	5	21.97	21.5±1	1.0
				3	0	22.15	21.5±1	1.0
				3	1	22.19	21.5±1	1.0
				3	2	22.16	21.5±1	1.0
				6	0	21.14	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	19965	1711.5	QPSK	1	0	22.9	22.5±1	/
				1	8	22.89	22.5±1	/
				1	14	22.9	22.5±1	/
				6	0	21.9	21.5±1	1.0
				6	4	21.95	21.5±1	1.0
				6	9	21.87	21.5±1	1.0
				15	0	21.88	21.5±1	1.0
			16QAM	1	0	21.9	21.5±1	1.0
				1	8	21.84	21.5±1	1.0
				1	14	21.86	21.5±1	1.0
				8	0	21.02	21.5±1	1.0
				8	4	21.02	21.5±1	1.0
				8	9	20.97	21.5±1	1.0
				15	0	20.89	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.95	22.5±1	/
				1	8	22.92	22.5±1	/
				1	14	22.94	22.5±1	/
				6	0	21.92	21.5±1	1.0
				6	4	21.97	21.5±1	1.0
				6	9	21.93	21.5±1	1.0
				15	0	21.91	21.5±1	1.0
			16QAM	1	0	22.34	21.5±1	1.0
				1	8	22.32	21.5±1	1.0
				1	14	22.38	21.5±1	1.0
				6	0	21.02	21.5±1	1.0
				6	4	21.07	21.5±1	1.0
				6	9	21.01	21.5±1	1.0
				15	0	20.95	21.5±1	1.0
	20385	1753.5	QPSK	1	0	23.02	22.5±1	/
				1	8	22.96	22.5±1	/
				1	14	23.02	22.5±1	/
				6	0	22.03	21.5±1	1.0
				6	4	22.05	21.5±1	1.0
				6	9	21.99	21.5±1	1.0
				15	0	22.03	21.5±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	8	22.03	21.5±1	1.0
				1	14	22.04	21.5±1	1.0
				8	0	21.08	21.5±1	1.0
				8	4	21.1	21.5±1	1.0
				8	9	21.09	21.5±1	1.0
				15	0	21	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	19975	1712.5	QPSK	1	0	22.9	22.5±1	/
				1	49	22.91	22.5±1	/
				1	99	22.92	22.5±1	/
				12	0	21.88	21.5±1	1.0
				12	24	21.93	21.5±1	1.0
				12	49	21.89	21.5±1	1.0
				25	0	21.88	21.5±1	1.0
			16QAM	1	0	22.1	21.5±1	1.0
				1	49	22.1	21.5±1	1.0
				1	99	22.13	21.5±1	1.0
				12	0	20.95	21.5±1	1.0
				12	24	21.01	21.5±1	1.0
				12	49	20.94	21.5±1	1.0
				25	0	20.88	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.96	22.5±1	/
				1	49	22.93	22.5±1	/
				1	99	22.96	22.5±1	/
				12	0	21.92	21.5±1	1.0
				12	24	21.98	21.5±1	1.0
				12	49	21.92	21.5±1	1.0
				25	0	21.92	21.5±1	1.0
			16QAM	1	0	22.45	21.5±1	1.0
				1	49	22.47	21.5±1	1.0
				1	99	22.47	21.5±1	1.0
				12	0	21.01	21.5±1	1.0
				12	24	21.12	21.5±1	1.0
				12	49	21.08	21.5±1	1.0
				25	0	21.02	21.5±1	1.0
	20375	1752.5	QPSK	1	0	23	22.5±1	/
				1	49	22.98	22.5±1	/
				1	99	22.98	22.5±1	/
				12	0	22.07	21.5±1	1.0
				12	24	22.06	21.5±1	1.0
				12	49	22	21.5±1	1.0
				25	0	22.01	21.5±1	1.0
			16QAM	1	0	22.19	21.5±1	1.0
				1	49	22.16	21.5±1	1.0
				1	99	22.2	21.5±1	1.0
				12	0	21.12	21.5±1	1.0
				12	24	21.13	21.5±1	1.0
				12	49	21.05	21.5±1	1.0
				25	0	20.99	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	20000	1715	QPSK	1	0	22.92	22.5±1	/
				1	49	23.03	22.5±1	/
				1	99	22.93	22.5±1	/
				25	0	21.94	21.5±1	1.0
				25	24	21.99	21.5±1	1.0
				25	49	21.91	21.5±1	1.0
				50	0	21.91	21.5±1	1.0
			16QAM	1	0	21.87	21.5±1	1.0
				1	49	22.03	21.5±1	1.0
				1	99	21.94	21.5±1	1.0
				25	0	20.95	21.5±1	1.0
				25	24	20.96	21.5±1	1.0
				25	49	20.94	21.5±1	1.0
				50	0	20.9	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.99	22.5±1	/
				1	49	23.02	22.5±1	/
				1	99	22.98	22.5±1	/
				25	0	21.93	21.5±1	1.0
				25	24	22.02	21.5±1	1.0
				25	49	21.97	21.5±1	1.0
				50	0	21.94	21.5±1	1.0
			16QAM	1	0	22.38	21.5±1	1.0
				1	49	22.45	21.5±1	1.0
				1	99	22.38	21.5±1	1.0
				25	0	21.01	21.5±1	1.0
				25	24	21.04	21.5±1	1.0
				25	49	21.03	21.5±1	1.0
				50	0	21.01	21.5±1	1.0
	20350	1750	QPSK	1	0	23.05	22.5±1	/
				1	49	23.14	22.5±1	/
				1	99	23.07	22.5±1	/
				25	0	22.09	21.5±1	1.0
				25	24	22.07	21.5±1	1.0
				25	49	22.01	21.5±1	1.0
				50	0	22.03	21.5±1	1.0
			16QAM	1	0	22.08	21.5±1	1.0
				1	49	22.25	21.5±1	1.0
				1	99	22.11	21.5±1	1.0
				25	0	21.16	21.5±1	1.0
				25	24	21.13	21.5±1	1.0
				25	49	21.12	21.5±1	1.0
				50	0	21.09	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	20025	1717.5	QPSK	1	0	22.82	22.5±1	/
				1	49	22.91	22.5±1	/
				1	99	22.85	22.5±1	/
				36	0	22.04	21.5±1	1.0
				36	24	22.03	21.5±1	1.0
				36	49	21.98	21.5±1	1.0
				75	0	22	21.5±1	1.0
			16QAM	1	0	21.81	21.5±1	1.0
				1	49	21.89	21.5±1	1.0
				1	99	21.85	21.5±1	1.0
				36	0	20.99	21.5±1	1.0
				36	24	21	21.5±1	1.0
				36	49	20.93	21.5±1	1.0
				75	0	21	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.87	22.5±1	/
				1	49	22.96	22.5±1	/
				1	99	22.91	22.5±1	/
				36	0	21.98	21.5±1	1.0
				36	24	22.04	21.5±1	1.0
				36	49	22.06	21.5±1	1.0
				75	0	21.99	21.5±1	1.0
			16QAM	1	0	22.35	21.5±1	1.0
				1	49	22.35	21.5±1	1.0
				1	99	22.35	21.5±1	1.0
				36	0	20.98	21.5±1	1.0
				36	24	21.08	21.5±1	1.0
				36	49	21.06	21.5±1	1.0
				75	0	21.03	21.5±1	1.0
	20325	1747.5	QPSK	1	0	22.95	22.5±1	/
				1	49	23	22.5±1	/
				1	99	22.97	22.5±1	/
				36	0	22.17	21.5±1	1.0
				36	24	22.08	21.5±1	1.0
				36	49	22.01	21.5±1	1.0
				75	0	22.11	21.5±1	1.0
			16QAM	1	0	22.4	21.5±1	1.0
				1	49	22.44	21.5±1	1.0
				1	99	22.46	21.5±1	1.0
				36	0	21.08	21.5±1	1.0
				36	24	21.03	21.5±1	1.0
				36	49	20.97	21.5±1	1.0
				75	0	21.07	21.5±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	20050	1720	QPSK	1	0	22.73	22.5±1	/
				1	49	23.12	22.5±1	/
				1	99	22.83	22.5±1	/
				50	0	22.05	21.5±1	1.0
				50	24	21.98	21.5±1	1.0
				50	49	21.98	21.5±1	1.0
				100	0	22.03	21.5±1	1.0
			16QAM	1	0	22.3	21.5±1	1.0
				1	49	22.64	21.5±1	1.0
				1	99	22.38	21.5±1	1.0
				50	0	21.08	21.5±1	1.0
				50	24	21.02	21.5±1	1.0
				50	49	21.01	21.5±1	1.0
				100	0	21.09	21.5±1	1.0
	20175	1732.5	QPSK	1	0	22.82	22.5±1	/
				1	49	23.36	22.5±1	/
				1	99	22.9	22.5±1	/
				50	0	22	21.5±1	1.0
				50	24	22.40	21.5±1	1.0
				50	49	22.03	21.5±1	1.0
				100	0	22.01	21.5±1	1.0
			16QAM	1	0	22.29	21.5±1	1.0
				1	49	22.64	21.5±1	1.0
				1	99	22.36	21.5±1	1.0
				50	0	20.99	21.5±1	1.0
				50	24	21.07	21.5±1	1.0
				50	49	21.05	21.5±1	1.0
				100	0	21.04	21.5±1	1.0
	20300	1745	QPSK	1	0	22.7	22.5±1	/
				1	49	23.14	22.5±1	/
				1	99	22.84	22.5±1	/
				50	0	22.13	21.5±1	1.0
				50	24	22.08	21.5±1	1.0
				50	49	21.94	21.5±1	1.0
				100	0	22.03	21.5±1	1.0
			16QAM	1	0	22.13	21.5±1	1.0
				1	49	22.57	21.5±1	1.0
				1	99	22.32	21.5±1	1.0
				50	0	21.08	21.5±1	1.0
				50	24	21.06	21.5±1	1.0
				50	49	20.89	21.5±1	1.0
				100	0	21.02	21.5±1	1.0

LTE Band 5:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
1.4MHz	20407	824.7	QPSK	1	0	23.83	23.0±1	/
				1	2	23.95	23.0±1	/
				1	5	23.78	23.0±1	/
				3	0	23.9	23.0±1	/
				3	1	23.79	23.0±1	/
				3	2	23.84	23.0±1	/
				6	0	22.94	22.0±1	1.0
			16QAM	1	0	22.93	22.0±1	1.0
				1	2	22.92	22.0±1	1.0
				1	5	22.85	22.0±1	1.0
				3	0	22.9	22.0±1	1.0
				3	1	22.87	22.0±1	1.0
				3	2	22.85	22.0±1	1.0
				6	0	22.02	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.77	23.0±1	/
				1	2	23.93	23.0±1	/
				1	5	23.76	23.0±1	/
				3	0	23.79	23.0±1	/
				3	1	23.89	23.0±1	/
				3	2	23.82	23.0±1	/
				6	0	22.91	22.0±1	1.0
			16QAM	1	0	22.16	22.0±1	1.0
				1	2	22.3	22.0±1	1.0
				1	5	22.15	22.0±1	1.0
				3	0	22.02	22.0±1	1.0
				3	1	22.99	22.0±1	1.0
				3	2	22.01	22.0±1	1.0
				6	0	21.83	22.0±1	1.0
	20634	848.3	QPSK	1	0	23.77	23.0±1	/
				1	2	23.91	23.0±1	/
				1	5	23.87	23.0±1	/
				3	0	23.92	23.0±1	/
				3	1	23.97	23.0±1	/
				3	2	23.94	23.0±1	/
			16QAM	6	0	22.95	22.0±1	1.0
				1	0	22.85	22.0±1	1.0
				1	2	22.93	22.0±1	1.0
				1	5	22.88	22.0±1	1.0
				3	0	22.14	22.0±1	1.0
				3	1	22.11	22.0±1	1.0
				3	2	22.09	22.0±1	1.0
				6	0	22.1	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
3MHz	20415	825.5	QPSK	1	0	23.9	23.0±1	/
				1	8	23.82	23.0±1	/
				1	14	23.8	23.0±1	/
				6	0	22.9	22.0±1	1.0
				6	4	22.89	22.0±1	1.0
				6	9	22.83	22.0±1	1.0
				15	0	22.82	22.0±1	1.0
			16QAM	1	0	22.83	22.0±1	1.0
				1	8	22.71	22.0±1	1.0
				1	14	22.76	22.0±1	1.0
				8	0	21.95	22.0±1	1.0
				8	4	21.98	22.0±1	1.0
				8	9	21.91	22.0±1	1.0
				15	0	21.85	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.79	23.0±1	/
				1	8	23.8	23.0±1	/
				1	14	23.77	23.0±1	/
				6	0	22.86	22.0±1	1.0
				6	4	22.91	22.0±1	1.0
				6	9	22.87	22.0±1	1.0
				15	0	22.87	22.0±1	1.0
			16QAM	1	0	22.89	22.0±1	1.0
				1	8	22.89	22.0±1	1.0
				1	14	22.2	22.0±1	1.0
				6	0	21.91	22.0±1	1.0
				6	4	21.96	22.0±1	1.0
				6	9	21.88	22.0±1	1.0
				15	0	21.85	22.0±1	1.0
	20635	847.5	QPSK	1	0	23.88	23.0±1	/
				1	8	23.84	23.0±1	/
				1	14	23.89	23.0±1	/
				6	0	22.9	22.0±1	1.0
				6	4	22.99	22.0±1	1.0
				6	9	22.9	22.0±1	1.0
				15	0	22.92	22.0±1	1.0
			16QAM	1	0	22.90	22.0±1	1.0
				1	8	22.88	22.0±1	1.0
				1	14	22.91	22.0±1	1.0
				8	0	21.96	22.0±1	1.0
				8	4	21.99	22.0±1	1.0
				8	9	21.93	22.0±1	1.0
				15	0	21.88	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	20425	826.5	QPSK	1	0	23.8	23.0±1	/
				1	49	23.92	23.0±1	/
				1	99	23.74	23.0±1	/
				12	0	22.8	22.0±1	1.0
				12	24	22.85	22.0±1	1.0
				12	49	22.86	22.0±1	1.0
				25	0	22.8	22.0±1	1.0
			16QAM	1	0	22.95	22.0±1	1.0
				1	49	22.99	22.0±1	1.0
				1	99	22.92	22.0±1	1.0
				12	0	21.83	22.0±1	1.0
				12	24	21.89	22.0±1	1.0
				12	49	21.9	22.0±1	1.0
				25	0	21.81	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.76	23.0±1	/
				1	49	23.81	23.0±1	/
				1	99	23.74	23.0±1	/
				12	0	22.82	22.0±1	1.0
				12	24	22.93	22.0±1	1.0
				12	49	22.8	22.0±1	1.0
				25	0	22.84	22.0±1	1.0
			16QAM	1	0	22.28	22.0±1	1.0
				1	49	22.37	22.0±1	1.0
				1	99	22.25	22.0±1	1.0
				12	0	21.94	22.0±1	1.0
				12	24	22.01	22.0±1	1.0
				12	49	21.91	22.0±1	1.0
				25	0	21.9	22.0±1	1.0
	20625	846.5	QPSK	1	0	23.79	23.0±1	/
				1	49	23.87	23.0±1	/
				1	99	23.79	23.0±1	/
				12	0	22.94	22.0±1	1.0
				12	24	22.96	22.0±1	1.0
				12	49	22.92	22.0±1	1.0
				25	0	22.89	22.0±1	1.0
			16QAM	1	0	22.93	22.0±1	1.0
				1	49	22.94	22.0±1	1.0
				1	99	22.92	22.0±1	1.0
				12	0	21.93	22.0±1	1.0
				12	24	21.98	22.0±1	1.0
				12	49	21.93	22.0±1	1.0
				25	0	21.81	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	20450	829	QPSK	1	0	23.86	23.0±1	/
				1	49	23.99	23.0±1	/
				1	99	23.76	23.0±1	/
				25	0	22.88	22.0±1	1.0
				25	24	22.89	22.0±1	1.0
				25	49	22.96	22.0±1	1.0
				50	0	22.9	22.0±1	1.0
			16QAM	1	0	22.83	22.0±1	1.0
				1	49	22.95	22.0±1	1.0
				1	99	22.77	22.0±1	1.0
				25	0	21.89	22.0±1	1.0
				25	24	21.92	22.0±1	1.0
				25	49	21.97	22.0±1	1.0
				50	0	21.91	22.0±1	1.0
	20525	836.5	QPSK	1	0	23.82	23.0±1	/
				1	49	23.99	23.0±1	/
				1	99	23.82	23.0±1	/
				25	0	22.87	22.0±1	1.0
				25	24	22.97	22.0±1	1.0
				25	49	22.87	22.0±1	1.0
				50	0	22.91	22.0±1	1.0
			16QAM	1	0	22.19	22.0±1	1.0
				1	49	22.32	22.0±1	1.0
				1	99	22.21	22.0±1	1.0
				25	0	21.91	22.0±1	1.0
				25	24	21.95	22.0±1	1.0
				25	49	21.94	22.0±1	1.0
				50	0	21.89	22.0±1	1.0
	20600	844	QPSK	1	0	23.85	23.0±1	/
				1	49	23.94	23.0±1	/
				1	99	23.88	23.0±1	/
				25	0	23	22.0±1	1.0
				25	24	22.95	22.0±1	1.0
				25	49	22.96	22.0±1	1.0
				50	0	22.98	22.0±1	1.0
			16QAM	1	0	22.87	22.0±1	1.0
				1	49	22.07	22.0±1	1.0
				1	99	22.93	22.0±1	1.0
				25	0	22.04	22.0±1	1.0
				25	24	22.02	22.0±1	1.0
				25	49	22.01	22.0±1	1.0
				50	0	21.99	22.0±1	1.0

LTE Band 7:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	20775	2502.5	QPSK	1	0	23.32	23.0±1	/
				1	49	23.4	23.0±1	/
				1	99	23.33	23.0±1	/
				12	0	22.33	22.0±1	1.0
				12	24	22.44	22.0±1	1.0
				12	49	22.44	22.0±1	1.0
				25	0	22.41	22.0±1	1.0
			16QAM	1	0	22.4	22.0±1	1.0
				1	49	22.49	22.0±1	1.0
				1	99	22.43	22.0±1	1.0
				12	0	21.4	22.0±1	1.0
				12	24	21.52	22.0±1	1.0
				12	49	21.48	22.0±1	1.0
				25	0	21.38	22.0±1	1.0
	21100	2535	QPSK	1	0	23.23	23.0±1	/
				1	49	23.26	23.0±1	/
				1	99	23.09	23.0±1	/
				12	0	22.18	22.0±1	1.0
				12	24	22.27	22.0±1	1.0
				12	49	22.21	22.0±1	1.0
				25	0	22.18	22.0±1	1.0
			16QAM	1	0	22.29	22.0±1	1.0
				1	49	22.36	22.0±1	1.0
				1	99	22.18	22.0±1	1.0
				12	0	21.25	22.0±1	1.0
				12	24	21.35	22.0±1	1.0
				12	49	21.26	22.0±1	1.0
				25	0	21.24	22.0±1	1.0
	21425	2567.5	QPSK	1	0	23.11	23.0±1	/
				1	49	23.24	23.0±1	/
				1	99	23.08	23.0±1	/
				12	0	22.12	22.0±1	1.0
				12	24	22.2	22.0±1	1.0
				12	49	22.11	22.0±1	1.0
				25	0	22.13	22.0±1	1.0
			16QAM	1	0	22.57	22.0±1	1.0
				1	49	22.7	22.0±1	1.0
				1	99	22.55	22.0±1	1.0
				12	0	21.28	22.0±1	1.0
				12	24	21.34	22.0±1	1.0
				12	49	21.25	22.0±1	1.0
				25	0	21.2	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	20800	2505	QPSK	1	0	23.4	23.0±1	/
				1	49	23.5	23.0±1	/
				1	99	23.37	23.0±1	/
				25	0	22.39	22.0±1	1.0
				25	24	22.44	22.0±1	1.0
				25	49	22.49	22.0±1	1.0
				50	0	22.45	22.0±1	1.0
			16QAM	1	0	22.27	22.0±1	1.0
				1	49	22.45	22.0±1	1.0
				1	99	22.28	22.0±1	1.0
				25	0	21.4	22.0±1	1.0
				25	24	21.5	22.0±1	1.0
				25	49	21.51	22.0±1	1.0
				50	0	21.46	22.0±1	1.0
	21100	2535	QPSK	1	0	23.22	23.0±1	/
				1	49	23.34	23.0±1	/
				1	99	23.23	23.0±1	/
				25	0	22.2	22.0±1	1.0
				25	24	22.23	22.0±1	1.0
				25	49	22.25	22.0±1	1.0
				50	0	22.21	22.0±1	1.0
			16QAM	1	0	22.55	22.0±1	1.0
				1	49	22.64	22.0±1	1.0
				1	99	22.48	22.0±1	1.0
				25	0	21.24	22.0±1	1.0
				25	24	21.32	22.0±1	1.0
				25	49	21.25	22.0±1	1.0
				50	0	21.24	22.0±1	1.0
	21400	2565	QPSK	1	0	23.16	23.0±1	/
				1	49	23.25	23.0±1	/
				1	99	23.15	23.0±1	/
				25	0	22.14	22.0±1	1.0
				25	24	22.16	22.0±1	1.0
				25	49	22.15	22.0±1	1.0
				50	0	22.16	22.0±1	1.0
			16QAM	1	0	22.14	22.0±1	1.0
				1	49	22.31	22.0±1	1.0
				1	99	22.12	22.0±1	1.0
				25	0	21.24	22.0±1	1.0
				25	24	21.29	22.0±1	1.0
				25	49	21.25	22.0±1	1.0
				50	0	21.18	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	20825	2507.5	QPSK	1	0	23.31	23.0±1	/
				1	49	23.43	23.0±1	/
				1	99	23.28	23.0±1	/
				36	0	22.46	22.0±1	1.0
				36	24	22.54	22.0±1	1.0
				36	49	22.52	22.0±1	1.0
				75	0	22.53	22.0±1	1.0
			16QAM	1	0	22.2	22.0±1	1.0
				1	49	22.29	22.0±1	1.0
				1	99	22.22	22.0±1	1.0
				36	0	21.39	22.0±1	1.0
				36	24	21.48	22.0±1	1.0
				36	49	21.44	22.0±1	1.0
				75	0	21.45	22.0±1	1.0
	21100	2535	QPSK	1	0	23.13	23.0±1	/
				1	49	23.22	23.0±1	/
				1	99	23.03	23.0±1	/
				36	0	22.29	22.0±1	1.0
				36	24	22.35	22.0±1	1.0
				36	49	22.32	22.0±1	1.0
				75	0	22.33	22.0±1	1.0
			16QAM	1	0	22.48	22.0±1	1.0
				1	49	22.58	22.0±1	1.0
				1	99	22.41	22.0±1	1.0
				36	0	21.3	22.0±1	1.0
				36	24	21.32	22.0±1	1.0
				36	49	21.31	22.0±1	1.0
				75	0	21.27	22.0±1	1.0
	21375	2562.5	QPSK	1	0	23.06	23.0±1	/
				1	49	23.14	23.0±1	/
				1	99	23.05	23.0±1	/
				36	0	22.16	22.0±1	1.0
				36	24	22.23	22.0±1	1.0
				36	49	22.19	22.0±1	1.0
				75	0	22.2	22.0±1	1.0
			16QAM	1	0	22.43	22.0±1	1.0
				1	49	22.52	22.0±1	1.0
				1	99	22.39	22.0±1	1.0
				36	0	21.13	22.0±1	1.0
				36	24	21.21	22.0±1	1.0
				36	49	21.17	22.0±1	1.0
				75	0	21.16	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	20850	2510	QPSK	1	0	23.18	23.0±1	/
				1	49	23.57	23.0±1	/
				1	99	23.18	23.0±1	/
				50	0	22.33	22.0±1	1.0
				50	24	22.46	22.0±1	1.0
				50	49	22.5	22.0±1	1.0
				100	0	22.49	22.0±1	1.0
			16QAM	1	0	22.66	22.0±1	1.0
				1	49	23.06	22.0±1	1.0
				1	99	22.68	22.0±1	1.0
				50	0	21.39	22.0±1	1.0
				50	24	21.53	22.0±1	1.0
				50	49	21.55	22.0±1	1.0
				100	0	21.52	22.0±1	1.0
	21100	2535	QPSK	1	0	23.03	23.0±1	/
				1	49	23.83	23.0±1	/
				1	99	22.98	23.0±1	/
				50	0	22.16	22.0±1	1.0
				50	24	22.85	22.0±1	1.0
				50	49	22.23	22.0±1	1.0
				100	0	22.21	22.0±1	1.0
			16QAM	1	0	22.39	22.0±1	1.0
				1	49	22.63	22.0±1	1.0
				1	99	22.32	22.0±1	1.0
				50	0	21.23	22.0±1	1.0
				50	24	21.29	22.0±1	1.0
				50	49	21.28	22.0±1	1.0
				100	0	21.22	22.0±1	1.0
	21350	2560	QPSK	1	0	22.84	23.0±1	/
				1	49	23.75	23.0±1	/
				1	99	22.86	23.0±1	/
				50	0	22.19	22.0±1	1.0
				50	24	22.2	22.0±1	1.0
				50	49	22.13	22.0±1	1.0
				100	0	22.18	22.0±1	1.0
			16QAM	1	0	22.2	22.0±1	1.0
				1	49	22.64	22.0±1	1.0
				1	99	22.21	22.0±1	1.0
				50	0	21.15	22.0±1	1.0
				50	24	21.2	22.0±1	1.0
				50	49	21.13	22.0±1	1.0
				100	0	21.21	22.0±1	1.0

LTE Band 41:

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
5MHz	40265	2557.5	QPSK	1	0	23.45	23.0±1	/
				1	12	23.47	23.0±1	/
				1	24	23.37	23.0±1	/
				12	0	22.36	22.0±1	1.0
				12	6	22.49	22.0±1	1.0
				12	11	22.44	22.0±1	1.0
				25	0	22.36	22.0±1	1.0
			16QAM	1	0	22.69	22.0±1	1.0
				1	12	22.67	22.0±1	1.0
				1	24	22.54	22.0±1	1.0
				12	0	21.38	22.0±1	1.0
				12	6	21.46	22.0±1	1.0
				12	11	21.43	22.0±1	1.0
				25	0	21.36	22.0±1	1.0
	40740	2605.0	QPSK	1	0	23.27	23.0±1	/
				1	12	23.39	23.0±1	/
				1	24	23.3	23.0±1	/
				12	0	22.27	22.0±1	1.0
				12	6	22.36	22.0±1	1.0
				12	11	22.33	22.0±1	1.0
				25	0	22.32	22.0±1	1.0
			16QAM	1	0	22.47	22.0±1	1.0
				1	12	22.59	22.0±1	1.0
				1	24	22.47	22.0±1	1.0
				12	0	21.24	22.0±1	1.0
				12	6	21.33	22.0±1	1.0
				12	11	21.22	22.0±1	1.0
				25	0	21.32	22.0±1	1.0
	41215	2652.5	QPSK	1	0	23.18	23.0±1	/
				1	12	23.35	23.0±1	/
				1	24	23.19	23.0±1	/
				12	0	22.25	22.0±1	1.0
				12	6	22.3	22.0±1	1.0
				12	11	22.2	22.0±1	1.0
				25	0	22.23	22.0±1	1.0
			16QAM	1	0	22.51	22.0±1	1.0
				1	12	22.63	22.0±1	1.0
				1	24	22.52	22.0±1	1.0
				12	0	21.28	22.0±1	1.0
				12	6	21.37	22.0±1	1.0
				12	11	21.26	22.0±1	1.0
				25	0	21.2	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
10MHz	40290	2560.0	QPSK	1	0	23.45	23.0±1	/
				1	24	23.71	23.0±1	/
				1	49	23.41	23.0±1	/
				25	0	22.4	22.0±1	1.0
				25	12	22.45	22.0±1	1.0
				25	24	22.47	22.0±1	1.0
				50	0	22.44	22.0±1	1.0
			16QAM	1	0	22.69	22.0±1	1.0
				1	24	22.94	22.0±1	1.0
				1	49	22.65	22.0±1	1.0
				25	0	21.39	22.0±1	1.0
				25	12	21.43	22.0±1	1.0
				25	24	21.46	22.0±1	1.0
				50	0	21.41	22.0±1	1.0
	40740	2605.0	QPSK	1	0	23.37	23.0±1	/
				1	24	23.67	23.0±1	/
				1	49	23.45	23.0±1	/
				25	0	22.43	22.0±1	1.0
				25	12	22.38	22.0±1	1.0
				25	24	22.34	22.0±1	1.0
				50	0	22.35	22.0±1	1.0
			16QAM	1	0	22.66	22.0±1	1.0
				1	24	22.97	22.0±1	1.0
				1	49	22.77	22.0±1	1.0
				25	0	21.31	22.0±1	1.0
				25	12	21.35	22.0±1	1.0
				25	24	21.33	22.0±1	1.0
				50	0	21.37	22.0±1	1.0
	41190	2650.0	QPSK	1	0	23.26	23.0±1	/
				1	24	23.58	23.0±1	/
				1	49	23.31	23.0±1	/
				25	0	22.26	22.0±1	1.0
				25	12	22.31	22.0±1	1.0
				25	24	22.26	22.0±1	1.0
				50	0	22.24	22.0±1	1.0
			16QAM	1	0	22.59	22.0±1	1.0
				1	24	22.88	22.0±1	1.0
				1	49	22.61	22.0±1	1.0
				25	0	21.26	22.0±1	1.0
				25	12	21.32	22.0±1	1.0
				25	24	21.3	22.0±1	1.0
				50	0	21.25	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
15MHz	40315	2562.5	QPSK	1	0	23.31	23.0±1	/
				1	37	23.46	23.0±1	/
				1	74	23.25	23.0±1	/
				36	0	22.39	22.0±1	1.0
				36	16	22.45	22.0±1	1.0
				36	35	22.43	22.0±1	1.0
				75	0	22.42	22.0±1	1.0
			16QAM	1	0	22.58	22.0±1	1.0
				1	37	22.66	22.0±1	1.0
				1	74	22.52	22.0±1	1.0
				36	0	21.34	22.0±1	1.0
				36	16	21.4	22.0±1	1.0
				36	35	21.38	22.0±1	1.0
				75	0	21.4	22.0±1	1.0
	40740	2605.0	QPSK	1	0	23.19	23.0±1	/
				1	37	23.4	23.0±1	/
				1	74	23.33	23.0±1	/
				36	0	22.38	22.0±1	1.0
				36	16	22.41	22.0±1	1.0
				36	35	22.43	22.0±1	1.0
				75	0	22.39	22.0±1	1.0
			16QAM	1	0	22.54	22.0±1	1.0
				1	37	22.73	22.0±1	1.0
				1	74	22.67	22.0±1	1.0
				36	0	21.23	22.0±1	1.0
				36	16	21.37	22.0±1	1.0
				36	35	21.33	22.0±1	1.0
				75	0	21.37	22.0±1	1.0
	41165	2647.5	QPSK	1	0	23.21	23.0±1	/
				1	37	23.34	23.0±1	/
				1	74	23.21	23.0±1	/
				36	0	22.32	22.0±1	1.0
				36	16	22.32	22.0±1	1.0
				36	35	22.28	22.0±1	1.0
				75	0	22.29	22.0±1	1.0
			16QAM	1	0	22.47	22.0±1	1.0
				1	37	22.61	22.0±1	1.0
				1	74	22.45	22.0±1	1.0
				36	0	21.28	22.0±1	1.0
				36	16	21.29	22.0±1	1.0
				36	35	21.25	22.0±1	1.0
				75	0	21.31	22.0±1	1.0

BW(MHz)	Ch	Freq(MHz)	Mode	UL RB Allocation	UL RB Offset	Average Power (dbm)	Tune up limited(dBm)	MPR (dB)
20MHz	40340	2565.0	QPSK	1	0	23.13	23.0±1	/
				1	49	23.82	23.0±1	/
				1	99	23.12	23.0±1	/
				50	0	22.31	22.0±1	1.0
				50	24	22.4	22.0±1	1.0
				50	49	22.44	22.0±1	1.0
				100	0	22.36	22.0±1	1.0
			16QAM	1	0	22.44	22.0±1	1.0
				1	49	22.88	22.0±1	1.0
				1	99	22.34	22.0±1	1.0
				50	0	21.26	22.0±1	1.0
				50	24	21.34	22.0±1	1.0
				50	49	21.38	22.0±1	1.0
				100	0	21.34	22.0±1	1.0
	40740	2605.0	QPSK	1	0	22.98	23.0±1	/
				1	49	23.92	23.0±1	/
				1	99	23.21	23.0±1	/
				50	0	22.27	22.0±1	1.0
				50	24	22.86	22.0±1	1.0
				50	49	22.35	22.0±1	1.0
				100	0	22.34	22.0±1	1.0
			16QAM	1	0	22.1	22.0±1	1.0
				1	49	22.7	22.0±1	1.0
				1	99	22.32	22.0±1	1.0
				50	0	21.25	22.0±1	1.0
				50	24	21.37	22.0±1	1.0
				50	49	21.36	22.0±1	1.0
				100	0	21.3	22.0±1	1.0
	41140	2645.0	QPSK	1	0	23.08	23.0±1	/
				1	49	23.87	23.0±1	/
				1	99	23.12	23.0±1	/
				50	0	22.2	22.0±1	1.0
				50	24	22.29	22.0±1	1.0
				50	49	22.26	22.0±1	1.0
				100	0	22.27	22.0±1	1.0
			16QAM	1	0	22.38	22.0±1	1.0
				1	49	22.87	22.0±1	1.0
				1	99	22.39	22.0±1	1.0
				50	0	21.25	22.0±1	1.0
				50	24	21.32	22.0±1	1.0
				50	49	21.27	22.0±1	1.0
				100	0	21.23	22.0±1	1.0

ERP and EIRP

LTE Band 2

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 24E	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE Band 2 Channel 18607 – 1.4MHz – QPSK										
1850.70	86.00	64	1.9	H	12.03	0.31	10.40	22.12	33	-10.88
1850.70	84.78	248	1.2	V	11.50	0.31	10.40	21.59	33	-11.41
LTE Band 2 Channel 18900 – 1.4MHz – QPSK										
1880.00	84.89	232	1.5	H	11.04	0.31	10.40	21.13	33	-11.87
1880.00	84.72	127	2.4	V	11.60	0.31	10.40	21.69	33	-11.31
LTE Band 2 Channel 19193 – 1.4MHz – QPSK										
1909.30	84.96	9	1.7	H	11.23	0.32	10.40	21.31	33	-11.69
1909.30	84.29	278	1.6	V	11.33	0.32	10.40	21.41	33	-11.59
LTE Band 2 Channel 18607 – 1.4MHz – 16QAM										
1850.70	84.93	188	1.2	H	10.96	0.31	10.40	21.05	33	-11.95
1850.70	84.67	106	1.8	V	11.39	0.31	10.40	21.48	33	-11.52
LTE Band 2 Channel 18900 – 1.4MHz – 16QAM										
1880.00	84.99	163	2.1	H	11.14	0.31	10.40	21.23	33	-11.77
1880.00	84.42	290	1.7	V	11.30	0.31	10.40	21.39	33	-11.61
LTE Band 2 Channel 19193 – 1.4MHz – 16QAM										
1909.30	84.97	150	2.4	H	11.24	0.32	10.40	21.32	33	-11.68
1909.30	84.07	242	1.1	V	11.11	0.32	10.40	21.19	33	-11.81
LTE Band 2 Channel 18615 – 3MHz – QPSK										
1851.50	86.00	168	1.7	H	12.03	0.31	10.40	22.12	33	-10.88
1851.50	84.89	96	2.3	V	11.61	0.31	10.40	21.70	33	-11.30
LTE Band 2 Channel 18900 – 3MHz – QPSK										
1880.00	84.89	24	1.4	H	11.04	0.31	10.40	21.13	33	-11.87
1880.00	84.24	171	2.2	V	11.12	0.31	10.40	21.21	33	-11.79
LTE Band 2 Channel 19185 – 3MHz – QPSK										
1908.50	84.83	330	2.2	H	11.10	0.32	10.40	21.18	33	-11.82
1908.50	84.82	91	1.5	V	11.86	0.32	10.40	21.94	33	-11.06
LTE Band 2 Channel 18615 – 3MHz – 16QAM										
1851.50	84.88	285	1.2	H	10.91	0.31	10.40	21.00	33	-12.00
1851.50	85.00	13	2.0	V	11.72	0.31	10.40	21.81	33	-11.19
LTE Band 2 Channel 18900 – 3MHz – 16QAM										
1880.00	84.86	52	2.1	H	11.01	0.31	10.40	21.10	33	-11.90
1880.00	84.82	101	2.2	V	11.70	0.31	10.40	21.79	33	-11.21
LTE Band 2 Channel 19185 – 3MHz – 16QAM										
1908.50	84.92	317	2.2	H	11.19	0.32	10.40	21.27	33	-11.73
1908.50	84.31	331	2.5	V	11.35	0.32	10.40	21.43	33	-11.57
LTE Band 2 Channel 18625 – 5MHz – QPSK										
1852.50	84.95	233	2.4	H	10.98	0.31	10.40	21.07	33	-11.93
1852.50	84.05	87	2.4	V	10.77	0.31	10.40	20.86	33	-12.14
LTE Band 2 Channel 18900 – 5MHz – QPSK										

1880.00	84.96	66	2.2	H	11.11	0.31	10.40	21.20	33	-11.80
1880.00	84.61	79	1.5	V	11.49	0.31	10.40	21.58	33	-11.42
LTE Band 2 Channel 19175 – 5MHz – QPSK										
1907.50	84.98	277	2.2	H	11.25	0.32	10.40	21.33	33	-11.67
1907.50	84.76	175	1.8	V	11.80	0.32	10.40	21.88	33	-11.12
LTE Band 2 Channel 18625 – 5MHz – 16QAM										
1852.50	84.91	77	1.8	H	10.94	0.31	10.40	21.03	33	-11.97
1852.50	84.26	332	1.4	V	10.98	0.31	10.40	21.07	33	-11.93
LTE Band 2 Channel 18900 – 5MHz – 16QAM										
1880.00	85.00	21	1.2	H	11.15	0.31	10.40	21.24	33	-11.76
1880.00	84.79	113	1.6	V	11.67	0.31	10.40	21.76	33	-11.24
LTE Band 2 Channel 19175 – 5MHz – 16QAM										
1907.50	85.10	160	2.0	H	11.37	0.32	10.40	21.45	33	-11.55
1907.50	84.82	279	2.2	V	11.86	0.32	10.40	21.94	33	-11.06
LTE Band 2 Channel 18650 – 10MHz – QPSK										
1855.00	85.01	158	1.9	H	11.04	0.31	10.40	21.13	33	-11.87
1855.00	84.76	149	1.9	V	11.48	0.31	10.40	21.57	33	-11.43
LTE Band 2 Channel 18900 – 10MHz – QPSK										
1880.00	85.06	127	1.2	H	11.21	0.31	10.40	21.30	33	-11.70
1880.00	84.64	81	1.9	V	11.52	0.31	10.40	21.61	33	-11.39
LTE Band 2 Channel 19150 – 10MHz – QPSK										
1905.00	85.05	143	1.5	H	11.32	0.32	10.40	21.40	33	-11.60
1905.00	84.71	193	2.2	V	11.75	0.32	10.40	21.83	33	-11.17
LTE Band 2 Channel 18650 – 10MHz – 16QAM										
1855.00	85.07	232	1.1	H	11.10	0.31	10.40	21.19	33	-11.81
1855.00	84.38	150	1.1	V	11.10	0.31	10.40	21.19	33	-11.81
LTE Band 2 Channel 18900 – 10MHz – 16QAM										
1880.00	85.07	34	1.1	H	11.22	0.31	10.40	21.31	33	-11.69
1880.00	84.09	49	2.4	V	10.97	0.31	10.40	21.06	33	-11.94
LTE Band 2 Channel 19150 – 10MHz – 16QAM										
1905.00	85.11	57	1.5	H	11.38	0.32	10.40	21.46	33	-11.54
1905.00	84.46	5	1.5	V	11.50	0.32	10.40	21.58	33	-11.42
LTE Band 2 Channel 18675 – 15MHz – QPSK										
1857.50	85.14	55	1.1	H	11.17	0.31	10.40	21.26	33	-11.74
1857.50	84.25	132	1.9	V	10.97	0.31	10.40	21.06	33	-11.94
LTE Band 2 Channel 18900 – 15MHz – QPSK										
1880.00	85.16	130	2.3	H	11.31	0.31	10.40	21.40	33	-11.60
1880.00	84.38	76	2.5	V	11.26	0.31	10.40	21.35	33	-11.65
LTE Band 2 Channel 19125 – 15MHz – QPSK										
1902.50	85.17	118	1.6	H	11.44	0.32	10.40	21.52	33	-11.48
1902.50	84.51	161	2.2	V	11.55	0.32	10.40	21.63	33	-11.37
LTE Band 2 Channel 18675 – 15MHz – 16QAM										
1857.50	85.09	307	1.3	H	11.12	0.31	10.40	21.21	33	-11.79
1857.50	84.99	259	2.1	V	11.71	0.31	10.40	21.80	33	-11.20
LTE Band 2 Channel 18900 – 15MHz – 16QAM										
1880.00	85.05	79	1.9	H	11.20	0.31	10.40	21.29	33	-11.71
1880.00	84.57	312	1.2	V	11.45	0.31	10.40	21.54	33	-11.46

LTE Band 2 Channel 19125 – 15MHz – 16QAM										
1902.50	85.12	207	2.5	H	11.39	0.32	10.40	21.47	33	-11.53
1902.50	84.36	220	1.2	V	11.40	0.32	10.40	21.48	33	-11.52
LTE Band 2 Channel 18700 – 20MHz – QPSK										
1860.00	87.00	88	1.2	H	13.03	0.31	10.40	23.12	33	-9.88
1860.00	86.57	156	1.1	V	13.29	0.31	10.40	23.38	33	-9.62
LTE Band 2 Channel 18900 – 20MHz – QPSK										
1880.00	87.05	295	1.9	H	13.20	0.31	10.40	23.29	33	-9.71
1880.00	86.60	169	1.4	V	13.48	0.31	10.40	23.57	33	-9.43
LTE Band 2 Channel 19100 – 20MHz – QPSK										
1900.00	87.11	277	1.0	H	13.38	0.32	10.40	23.46	33	-9.54
1900.00	86.65	288	1.0	V	13.69	0.32	10.40	23.77	33	-9.23
LTE Band 2 Channel 18670 – 20MHz – 16QAM										
1860.00	87.13	330	2.1	H	13.16	0.31	10.40	23.25	33	-9.75
1860.00	86.67	197	1.4	V	13.39	0.31	10.40	23.48	33	-9.52
LTE Band 2 Channel 18900 – 20MHz – 16QAM										
1880.00	87.15	272	2.1	H	13.30	0.31	10.40	23.39	33	-9.61
1880.00	86.68	166	2.3	V	13.56	0.31	10.40	23.65	33	-9.35
LTE Band 2 Channel 19100 – 20MHz – 16QAM										
1900.00	87.19	187	1.4	H	13.46	0.32	10.40	23.54	33	-9.46
1900.00	86.64	278	2.0	V	13.68	0.32	10.40	23.76	33	-9.24

LTE Band 4

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE Band 4 Channel 19957 – 1.4MHz – QPSK										
1710.70	86.00	122	1.2	H	11.89	0.30	9.40	20.99	30	-9.01
1710.70	86.18	154	1.1	V	12.65	0.30	9.40	21.75	30	-8.25
LTE Band 4 Channel 20175 – 1.4MHz – QPSK										
1732.50	86.21	120	1.2	H	12.10	0.30	9.40	21.20	30	-8.80
1732.50	86.41	164	1.8	V	12.88	0.30	9.40	21.98	30	-8.02
LTE Band 4 Channel 20393 – 1.4MHz – QPSK										
1754.30	86.27	271	1.9	H	12.16	0.30	9.40	21.26	30	-8.74
1754.30	86.00	319	2.3	V	12.47	0.30	9.40	21.57	30	-8.43
LTE Band 4 Channel 19957 – 1.4MHz – 16QAM										
1710.70	85.55	29	2.3	H	11.44	0.30	9.40	20.54	30	-9.46
1710.70	86.23	251	2.1	V	12.70	0.30	9.40	21.80	30	-8.20
LTE Band 4 Channel 20175 – 1.4MHz – 16QAM										
1732.50	86.07	91	2.2	H	11.96	0.30	9.40	21.06	30	-8.94
1732.50	85.82	78	1.4	V	12.29	0.30	9.40	21.39	30	-8.61
LTE Band 4 Channel 20393 – 1.4MHz – 16QAM										
1754.30	86.05	287	2.4	H	11.94	0.30	9.40	21.04	30	-8.96
1754.30	86.25	257	2.2	V	12.72	0.30	9.40	21.82	30	-8.18
LTE Band 4 Channel 19965 – 3MHz – QPSK										
1711.50	85.87	114	1.3	H	11.76	0.30	9.40	20.86	30	-9.14

1711.50	85.81	11	1.2	V	12.28	0.30	9.40	21.38	30	-8.62
LTE Band 4 Channel 20175 – 3MHz – QPSK										
1732.50	85.88	265	2.5	H	11.77	0.30	9.40	20.87	30	-9.13
1732.50	86.22	349	2.3	V	12.69	0.30	9.40	21.79	30	-8.21
LTE Band 4 Channel 20385 – 3MHz – QPSK										
1753.50	85.87	114	1.1	H	11.76	0.30	9.40	20.86	30	-9.14
1753.50	86.44	241	1.7	V	12.91	0.30	9.40	22.01	30	-7.99
LTE Band 4 Channel 19965 – 3MHz – 16QAM										
1711.50	85.66	156	1.3	H	11.55	0.30	9.40	20.65	30	-9.35
1711.50	85.97	51	1.2	V	12.44	0.30	9.40	21.54	30	-8.46
LTE Band 4 Channel 20175 – 3MHz – 16QAM										
1732.50	86.01	18	1.3	H	11.90	0.30	9.40	21.00	30	-9.00
1732.50	86.04	21	1.9	V	12.51	0.30	9.40	21.61	30	-8.39
LTE Band 4 Channel 20385 – 3MHz – 16QAM										
1753.50	85.75	281	1.6	H	11.64	0.30	9.40	20.74	30	-9.26
1753.50	86.12	9	1.1	V	12.59	0.30	9.40	21.69	30	-8.31
LTE Band 4 Channel 19975 – 5MHz – QPSK										
1712.50	85.79	337	2.4	H	11.68	0.30	9.40	20.78	30	-9.22
1712.50	86.18	261	2.3	V	12.65	0.30	9.40	21.75	30	-8.25
LTE Band 4 Channel 20175 – 5MHz – QPSK										
1732.50	86.32	25	2.5	H	12.21	0.30	9.40	21.31	30	-8.69
1732.50	85.94	316	1.3	V	12.41	0.30	9.40	21.51	30	-8.49
LTE Band 4 Channel 20375 – 5MHz – QPSK										
1752.50	86.21	94	2.2	H	12.10	0.30	9.40	21.20	30	-8.80
1752.50	85.69	181	2.3	V	12.16	0.30	9.40	21.26	30	-8.74
LTE Band 4 Channel 19975 – 5MHz – 16QAM										
1712.50	85.77	183	2.2	H	11.66	0.30	9.40	20.76	30	-9.24
1712.50	85.88	249	1.8	V	12.35	0.30	9.40	21.45	30	-8.55
LTE Band 4 Channel 20175 – 5MHz – 16QAM										
1732.50	85.80	172	1.6	H	11.69	0.30	9.40	20.79	30	-9.21
1732.50	85.91	320	2.2	V	12.38	0.30	9.40	21.48	30	-8.52
LTE Band 4 Channel 20375 – 5MHz – 16QAM										
1752.50	85.86	82	1.2	H	11.75	0.30	9.40	20.85	30	-9.15
1752.50	85.72	354	2.2	V	12.19	0.30	9.40	21.29	30	-8.71
LTE Band 4 Channel 20000 – 10MHz – QPSK										
1715.00	85.85	46	1.1	H	11.74	0.30	9.40	20.84	30	-9.16
1715.00	86.08	205	1.8	V	12.55	0.30	9.40	21.65	30	-8.35
LTE Band 4 Channel 20175 – 10MHz – QPSK										
1732.50	86.09	114	2.2	H	11.98	0.30	9.40	21.08	30	-8.92
1732.50	85.62	281	1.9	V	12.09	0.30	9.40	21.19	30	-8.81
LTE Band 4 Channel 20350 – 10MHz – QPSK										
1750.00	85.98	109	1.9	H	11.87	0.30	9.40	20.97	30	-9.03
1750.00	86.21	132	2.1	V	12.68	0.30	9.40	21.78	30	-8.22
LTE Band 4 Channel 20000 – 10MHz – 16QAM										
1715.00	86.38	132	1.5	H	12.27	0.30	9.40	21.37	30	-8.63
1715.00	86.13	66	2.4	V	12.60	0.30	9.40	21.70	30	-8.30
LTE Band 4 Channel 20175 – 10MHz – 16QAM										

1732.50	86.38	125	1.8	H	12.27	0.30	9.40	21.37	30	-8.63
1732.50	85.98	144	1.7	V	12.45	0.30	9.40	21.55	30	-8.45
LTE Band 4 Channel 20350 – 10MHz – 16QAM										
1750.00	85.73	86	1.5	H	11.62	0.30	9.40	20.72	30	-9.28
1750.00	86.01	227	2.5	V	12.48	0.30	9.40	21.58	30	-8.42
LTE Band 4 Channel 20025 – 15MHz – QPSK										
1717.50	86.26	99	2.4	H	12.15	0.30	9.40	21.25	30	-8.75
1717.50	86.14	329	2.0	V	12.61	0.30	9.40	21.71	30	-8.29
LTE Band 4 Channel 20175 – 15MHz – QPSK										
1732.50	86.32	142	1.7	H	12.21	0.30	9.40	21.31	30	-8.69
1732.50	85.89	216	2.2	V	12.36	0.30	9.40	21.46	30	-8.54
LTE Band 4 Channel 20325 – 15MHz – QPSK										
1747.50	86.19	167	2.2	H	12.08	0.30	9.40	21.18	30	-8.82
1747.50	86.05	14	1.7	V	12.52	0.30	9.40	21.62	30	-8.38
LTE Band 4 Channel 20025 – 15MHz – 16QAM										
1717.50	85.89	142	1.2	H	11.78	0.30	9.40	20.88	30	-9.12
1717.50	86.27	130	2.4	V	12.74	0.30	9.40	21.84	30	-8.16
LTE Band 4 Channel 20175 – 15MHz – 16QAM										
1732.50	86.11	346	2.2	H	12.00	0.30	9.40	21.10	30	-8.90
1732.50	86.00	8	2.0	V	12.47	0.30	9.40	21.57	30	-8.43
LTE Band 4 Channel 20325 – 15MHz – 16QAM										
1747.50	86.16	279	1.3	H	12.05	0.30	9.40	21.15	30	-8.85
1747.50	85.68	204	2.3	V	12.15	0.30	9.40	21.25	30	-8.75
LTE Band 4 Channel 20050 – 20MHz – QPSK										
1720.00	88.00	235	1.9	H	13.89	0.30	9.40	22.99	30	-7.01
1720.00	87.00	148	2.4	V	13.47	0.30	9.40	22.57	30	-7.43
LTE Band 4 Channel 20175 – 20MHz – QPSK										
1732.50	88.02	177	1.4	H	13.91	0.30	9.40	23.01	30	-6.99
1732.50	87.05	219	1.5	V	13.52	0.30	9.40	22.62	30	-7.38
LTE Band 4 Channel 20300 – 20MHz – QPSK										
1745.00	87.96	340	2.1	H	13.85	0.30	9.40	22.95	30	-7.05
1745.00	87.00	31	2.2	V	13.47	0.30	9.40	22.57	30	-7.43
LTE Band 4 Channel 20050 – 20MHz – 16QAM										
1720.00	87.84	238	2.0	H	13.73	0.30	9.40	22.83	30	-7.17
1720.00	86.92	42	1.0	V	13.39	0.30	9.40	22.49	30	-7.51
LTE Band 4 Channel 20175 – 20MHz – 16QAM										
1732.50	87.49	261	1.2	H	13.38	0.30	9.40	22.48	30	-7.52
1732.50	86.99	239	2.3	V	13.46	0.30	9.40	22.56	30	-7.44
LTE Band 4 Channel 20300 – 20MHz – 16QAM										
1745.00	87.35	133	1.2	H	13.24	0.30	9.40	22.34	30	-7.66
1745.00	86.94	69	2.5	V	13.41	0.30	9.40	22.51	30	-7.49

LTE Band 5

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 22H	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE Band 5 Channel 20407 – 1.4MHz – QPSK										
824.70	78.50	154	1.3	H	11.39	0.30	9.40	20.49	38.45	-17.96
824.70	78.27	339	1.4	V	10.74	0.30	9.40	19.84	38.45	-18.61
LTE Band 5 Channel 20525 – 1.4MHz – QPSK										
836.50	78.77	196	1.7	H	11.66	0.30	9.40	20.76	38.45	-17.69
836.50	78.60	354	1.9	V	11.07	0.30	9.40	20.17	38.45	-18.28
LTE Band 5 Channel 20643 – 1.4MHz – QPSK										
848.30	78.09	145	1.3	H	10.98	0.30	9.40	20.08	38.45	-18.37
848.30	78.19	110	1.8	V	10.66	0.30	9.40	19.76	38.45	-18.69
LTE Band 5 Channel 20407 – 1.4MHz – 16QAM										
824.70	78.25	318	1.1	H	11.14	0.30	9.40	20.24	38.45	-18.21
824.70	78.55	297	2.5	V	11.02	0.30	9.40	20.12	38.45	-18.33
LTE Band 5 Channel 20525 – 1.4MHz – 16QAM										
836.50	78.13	130	1.7	H	11.02	0.30	9.40	20.12	38.45	-18.33
836.50	78.25	65	2.4	V	10.72	0.30	9.40	19.82	38.45	-18.63
LTE Band 5 Channel 20643 – 1.4MHz – 16QAM										
848.30	78.35	156	1.2	H	11.24	0.30	9.40	20.34	38.45	-18.11
848.30	78.13	351	1.3	V	10.60	0.30	9.40	19.70	38.45	-18.75
LTE Band 5 Channel 20415 – 3MHz – QPSK										
825.50	78.54	297	2.2	H	11.43	0.30	9.40	20.53	38.45	-17.92
825.50	78.66	261	1.1	V	11.13	0.30	9.40	20.23	38.45	-18.22
LTE Band 5 Channel 20525 – 3MHz – QPSK										
836.50	78.48	216	2.0	H	11.37	0.30	9.40	20.47	38.45	-17.98
836.50	78.35	278	2.1	V	10.82	0.30	9.40	19.92	38.45	-18.53
LTE Band 5 Channel 20635 – 3MHz – QPSK										
847.50	78.99	122	1.5	H	11.88	0.30	9.40	20.98	38.45	-17.47
847.50	78.48	203	2.0	V	10.95	0.30	9.40	20.05	38.45	-18.40
LTE Band 5 Channel 20415 – 3MHz – 16QAM										
825.50	78.43	337	2.4	H	11.32	0.30	9.40	20.42	38.45	-18.03
825.50	78.90	298	2.1	V	11.37	0.30	9.40	20.47	38.45	-17.98
LTE Band 5 Channel 20525 – 3MHz – 16QAM										
836.50	78.63	351	2.2	H	11.52	0.30	9.40	20.62	38.45	-17.83
836.50	78.63	239	1.0	V	11.10	0.30	9.40	20.20	38.45	-18.25
LTE Band 5 Channel 20635 – 3MHz – 16QAM										
847.50	78.44	236	1.4	H	11.33	0.30	9.40	20.43	38.45	-18.02
847.50	78.69	39	1.6	V	11.16	0.30	9.40	20.26	38.45	-18.19
LTE Band 5 Channel 20425 – 5MHz – QPSK										
826.50	78.54	306	1.3	H	11.43	0.30	9.40	20.53	38.45	-17.92
826.50	78.48	333	2.0	V	10.95	0.30	9.40	20.05	38.45	-18.40
LTE Band 5 Channel 20525 – 5MHz – QPSK										
836.50	78.82	255	1.2	H	11.71	0.30	9.40	20.81	38.45	-17.64
836.50	78.59	206	2.5	V	11.06	0.30	9.40	20.16	38.45	-18.29

LTE Band 5 Channel 20625 – 5MHz – QPSK										
846.50	78.11	325	2.0	H	11.00	0.30	9.40	20.10	38.45	-18.35
846.50	78.59	270	1.7	V	11.06	0.30	9.40	20.16	38.45	-18.29
LTE Band 5 Channel 20425 – 5MHz – 16QAM										
826.50	78.65	124	1.6	H	11.54	0.30	9.40	20.64	38.45	-17.81
826.50	78.28	93	1.8	V	10.75	0.30	9.40	19.85	38.45	-18.60
LTE Band 5 Channel 20525 – 5MHz – 16QAM										
836.50	78.61	55	1.2	H	11.50	0.30	9.40	20.60	38.45	-17.85
836.50	78.43	67	2.4	V	10.90	0.30	9.40	20.00	38.45	-18.45
LTE Band 5 Channel 20625 – 5MHz – 16QAM										
846.50	78.80	258	2.2	H	11.69	0.30	9.40	20.79	38.45	-17.66
846.50	78.17	0	1.3	V	10.64	0.30	9.40	19.74	38.45	-18.71
LTE Band 5 Channel 20450 – 10MHz – QPSK										
829.00	79.50	5	1.5	H	12.39	0.30	9.40	21.49	38.45	-16.96
829.00	80.00	235	2.1	V	12.47	0.30	9.40	21.57	38.45	-16.88
LTE Band 5 Channel 20525 – 10MHz – QPSK										
836.50	79.53	311	1.2	H	12.42	0.30	9.40	21.52	38.45	-16.93
836.50	80.05	148	1.8	V	12.52	0.30	9.40	21.62	38.45	-16.83
LTE Band 5 Channel 20600 – 10MHz – QPSK										
844.00	79.59	134	2.0	H	12.48	0.30	9.40	21.58	38.45	-16.87
844.00	80.09	120	1.8	V	12.56	0.30	9.40	21.66	38.45	-16.79
LTE Band 5 Channel 20450 – 10MHz – 16QAM										
829.00	79.62	28	1.2	H	12.51	0.30	9.40	21.61	38.45	-16.84
829.00	80.12	258	2.4	V	12.59	0.30	9.40	21.69	38.45	-16.76
LTE Band 5 Channel 20525 – 10MHz – 16QAM										
836.50	79.72	348	2.3	H	12.61	0.30	9.40	21.71	38.45	-16.74
836.50	80.25	160	1.6	V	12.72	0.30	9.40	21.82	38.45	-16.63
LTE Band 5 Channel 20600 – 10MHz – 16QAM										
844.00	79.73	37	1.0	H	12.62	0.30	9.40	21.72	38.45	-16.73
844.00	80.11	175	1.2	V	12.58	0.30	9.40	21.68	38.45	-16.77

LTE Band 7

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE Band 7 Channel 20775 – 5MHz – QPSK										
2502.50	87.00	100	1.3	H	13.00	0.43	10.60	23.17	33	-9.83
2502.50	84.31	267	1.2	V	14.03	0.43	10.60	24.20	33	-8.80
LTE Band 7 Channel 21100 – 5MHz – QPSK										
2535.00	86.93	174	2.1	H	12.93	0.43	10.60	23.10	33	-9.90
2535.00	83.88	67	1.3	V	13.60	0.43	10.60	23.77	33	-9.23
LTE Band 7 Channel 21425 – 5MHz – QPSK										
2567.50	86.82	231	1.4	H	12.71	0.43	10.60	22.88	33	-10.12
2567.50	83.79	298	1.0	V	13.60	0.43	10.60	23.77	33	-9.23
LTE Band 7 Channel 20775 – 5MHz – 16QAM										
2502.50	86.84	24	2.4	H	12.84	0.43	10.60	23.01	33	-9.99
2502.50	84.25	83	1.3	V	13.97	0.43	10.60	24.14	33	-8.86
LTE Band 7 Channel 21100 – 5MHz – 16QAM										
2535.00	87.09	222	1.6	H	13.09	0.43	10.60	23.26	33	-9.74
2535.00	84.06	359	2.5	V	13.78	0.43	10.60	23.95	33	-9.05
LTE Band 7 Channel 21425 – 5MHz – 16QAM										
2567.50	87.31	42	1.6	H	13.20	0.43	10.60	23.37	33	-9.63
2567.50	84.28	234	1.3	V	14.09	0.43	10.60	24.26	33	-8.74
LTE Band 7 Channel 20800 – 10MHz – QPSK										
2505.00	87.11	265	1.2	H	13.11	0.43	10.60	23.28	33	-9.72
2505.00	83.79	109	1.6	V	13.51	0.43	10.60	23.68	33	-9.32
LTE Band 7 Channel 21100 – 10MHz – QPSK										
2535.00	87.16	334	2.2	H	13.16	0.43	10.60	23.33	33	-9.67
2535.00	83.88	277	1.7	V	13.60	0.43	10.60	23.77	33	-9.23
LTE Band 7 Channel 21400 – 10MHz – QPSK										
2565.00	86.69	8	1.7	H	12.58	0.43	10.60	22.75	33	-10.25
2565.00	83.87	13	2.2	V	13.68	0.43	10.60	23.85	33	-9.15
LTE Band 7 Channel 20800 – 10MHz – 16QAM										
2505.00	86.81	207	1.9	H	12.81	0.43	10.60	22.98	33	-10.02
2505.00	83.74	42	1.4	V	13.46	0.43	10.60	23.63	33	-9.37
LTE Band 7 Channel 21100 – 10MHz – 16QAM										
2535.00	86.95	248	1.7	H	12.95	0.43	10.60	23.12	33	-9.88
2535.00	85.24	286	1.2	V	14.96	0.43	10.60	25.13	33	-7.87
LTE Band 7 Channel 21400 – 10MHz – 16QAM										
2565.00	86.67	23	1.5	H	12.56	0.43	10.60	22.73	33	-10.27
2565.00	84.07	116	1.2	V	13.88	0.43	10.60	24.05	33	-8.95
LTE Band 7 Channel 20825 – 15MHz – QPSK										
2507.50	87.06	56	2.3	H	13.06	0.43	10.60	23.23	33	-9.77
2507.50	84.16	237	1.4	V	13.88	0.43	10.60	24.05	33	-8.95
LTE Band 7 Channel 21100 – 15MHz – QPSK										
2535.00	87.18	305	1.1	H	13.18	0.43	10.60	23.35	33	-9.65
2535.00	84.02	97	1.3	V	13.74	0.43	10.60	23.91	33	-9.09

LTE Band 7 Channel 21375 – 15MHz – QPSK										
2562.50	86.61	9	1.3	H	12.50	0.43	10.60	22.67	33	-10.33
2562.50	84.06	90	1.9	V	13.87	0.43	10.60	24.04	33	-8.96
LTE Band 7 Channel 20825 – 15MHz – 16QAM										
2507.50	87.43	331	2.0	H	13.43	0.43	10.60	23.60	33	-9.40
2507.50	84.12	99	2.4	V	13.84	0.43	10.60	24.01	33	-8.99
LTE Band 7 Channel 21100 – 15MHz – 16QAM										
2535.00	86.99	272	2.3	H	12.99	0.43	10.60	23.16	33	-9.84
2535.00	84.06	323	1.2	V	13.78	0.43	10.60	23.95	33	-9.05
LTE Band 7 Channel 21375 – 15MHz – 16QAM										
2562.50	86.91	288	1.4	H	12.80	0.43	10.60	22.97	33	-10.03
2562.50	83.98	335	1.1	V	13.79	0.43	10.60	23.96	33	-9.04
LTE Band 7 Channel 20850 – 20MHz – QPSK										
2510.00	89.00	216	2.3	H	15.00	0.43	10.60	25.17	33	-7.83
2510.00	86.00	76	1.5	V	15.72	0.43	10.60	25.89	33	-7.11
LTE Band 7 Channel 21100 – 20MHz – QPSK										
2535.00	89.02	100	2.0	H	15.02	0.43	10.60	25.19	33	-7.81
2535.00	85.89	220	1.7	V	15.61	0.43	10.60	25.78	33	-7.22
LTE Band 7 Channel 21350 – 20MHz – QPSK										
2560.00	89.01	90	2.1	H	14.90	0.43	10.60	25.07	33	-7.93
2560.00	85.84	302	1.2	V	15.65	0.43	10.60	25.82	33	-7.18
LTE Band 7 Channel 20850 – 20MHz – 16QAM										
2510.00	89.00	0	1.0	H	15.00	0.43	10.60	25.17	33	-7.83
2510.00	85.72	130	1.9	V	15.44	0.43	10.60	25.61	33	-7.39
LTE Band 7 Channel 21100 – 20MHz – 16QAM										
2535.00	89.04	276	2.1	H	15.04	0.43	10.60	25.21	33	-7.79
2535.00	85.68	270	1.3	V	15.40	0.43	10.60	25.57	33	-7.43
LTE Band 7 Channel 21350 – 20MHz – 16QAM										
2560.00	88.95	306	1.8	H	14.84	0.43	10.60	25.01	33	-7.99
2560.00	85.61	3	1.3	V	15.42	0.43	10.60	25.59	33	-7.41

LTE Band 41

Frequency	Receiver Reading	Turn table Angle	RX Antenna		Substituted			Absolute Level	Part 27	
			Height	Polar	SG Level	Cable	Antenna Gain		Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dB)
LTE Band 41 Channel 39675 – 5MHz – QPSK										
2498.50	87.00	51	1.9	H	13.00	0.43	10.60	23.17	33	-9.83
2498.50	88.00	205	1.8	V	12.72	0.43	10.60	22.89	33	-10.11
LTE Band 41 Channel 40620 – 5MHz – QPSK										
2593.00	87.12	274	1.7	H	13.12	0.43	10.60	23.29	33	-9.71
2593.00	88.10	107	2.4	V	12.82	0.43	10.60	22.99	33	-10.01
LTE Band 41 Channel 41565 – 5MHz – QPSK										
2687.50	86.92	19	1.2	H	12.81	0.43	10.60	22.98	33	-10.02
2687.50	88.06	281	2.3	V	12.87	0.43	10.60	23.04	33	-9.96
LTE Band 41 Channel 39675 – 5MHz – 16QAM										
2498.50	86.74	47	1.5	H	12.74	0.43	10.60	22.91	33	-10.09
2498.50	88.10	215	1.8	V	12.82	0.43	10.60	22.99	33	-10.01
LTE Band 41 Channel 40620 – 5MHz – 16QA										
2593.00	86.81	216	1.1	H	12.81	0.43	10.60	22.98	33	-10.02
2593.00	88.12	195	1.9	V	12.84	0.43	10.60	23.01	33	-9.99
LTE Band 41 Channel 41565 – 5MHz – 16QAM										
2687.50	87.21	209	1.9	H	13.10	0.43	10.60	23.27	33	-9.73
2687.50	88.04	297	1.5	V	12.85	0.43	10.60	23.02	33	-9.98
LTE Band 41 Channel 39700 – 10MHz – QPSK										
2501.00	86.79	6	1.4	H	12.79	0.43	10.60	22.96	33	-10.04
2501.00	88.05	271	1.3	V	12.77	0.43	10.60	22.94	33	-10.06
LTE Band 41 Channel 40620 – 10MHz – QPSK										
2593.00	86.65	348	1.3	H	12.65	0.43	10.60	22.82	33	-10.18
2593.00	88.12	31	2.3	V	12.84	0.43	10.60	23.01	33	-9.99
LTE Band 41 Channel 41540 – 10MHz – QPSK										
2685.00	87.15	125	2.1	H	13.04	0.43	10.60	23.21	33	-9.79
2685.00	88.13	123	1.5	V	12.94	0.43	10.60	23.11	33	-9.89
LTE Band 41 Channel 39700 – 10MHz – 16QAM										
2501.00	87.45	152	1.9	H	13.45	0.43	10.60	23.62	33	-9.38
2501.00	88.20	289	1.0	V	12.92	0.43	10.60	23.09	33	-9.91
LTE Band 41 Channel 40620 – 10MHz – 16QAM										
2593.00	87.10	162	1.4	H	13.10	0.43	10.60	23.27	33	-9.73
2593.00	88.23	137	1.6	V	12.95	0.43	10.60	23.12	33	-9.88
LTE Band 41 Channel 41540 – 10MHz – 16QAM										
2685.00	87.09	213	1.1	H	12.98	0.43	10.60	23.15	33	-9.85
2685.00	88.25	14	1.5	V	13.06	0.43	10.60	23.23	33	-9.77
LTE Band 41 Channel 39725 – 15MHz – QPSK										
2503.50	87.10	16	2.4	H	13.10	0.43	10.60	23.27	33	-9.73
2503.50	88.26	305	1.7	V	12.98	0.43	10.60	23.15	33	-9.85
LTE Band 41 Channel 40620 – 15MHz – QPSK										
2593.00	86.99	174	2.0	H	12.99	0.43	10.60	23.16	33	-9.84
2593.00	88.24	82	1.1	V	12.96	0.43	10.60	23.13	33	-9.87

LTE Band 41 Channel 41515 – 15MHz – QPSK										
2682.50	86.63	31	1.1	H	12.52	0.43	10.60	22.69	33	-10.31
2682.50	88.30	329	2.3	V	13.11	0.43	10.60	23.28	33	-9.72
LTE Band 41 Channel 39725 – 15MHz – 16QAM										
2503.50	87.35	226	1.9	H	13.35	0.43	10.60	23.52	33	-9.48
2503.50	88.00	143	1.0	V	12.72	0.43	10.60	22.89	33	-10.11
LTE Band 41 Channel 40620 – 15MHz – 16QAM										
2593.00	86.86	207	1.3	H	12.86	0.43	10.60	23.03	33	-9.97
2593.00	88.32	81	2.3	V	13.04	0.43	10.60	23.21	33	-9.79
LTE Band 41 Channel 41515 – 15MHz – 16QAM										
2682.50	86.80	220	1.4	H	12.69	0.43	10.60	22.86	33	-10.14
2682.50	88.00	147	2.5	V	12.81	0.43	10.60	22.98	33	-10.02
LTE Band 41 Channel 39750 – 20MHz – QPSK										
2506.00	88.46	44	1.4	H	14.46	0.43	10.60	24.63	33	-8.37
2506.00	89.00	50	1.4	V	13.72	0.43	10.60	23.89	33	-9.11
LTE Band 41 Channel 40620 – 20MHz – QPSK										
2593.00	88.50	151	2.0	H	14.50	0.43	10.60	24.67	33	-8.33
2593.00	89.25	23	1.1	V	13.97	0.43	10.60	24.14	33	-8.86
LTE Band 41 Channel 41490 – 20MHz – QPSK										
2680.00	88.52	351	2.3	H	14.41	0.43	10.60	24.58	33	-8.42
2680.00	89.29	273	1.1	V	14.10	0.43	10.60	24.27	33	-8.73
LTE Band 41 Channel 39750 – 20MHz – 16QAM										
2506.00	88.56	78	1.6	H	14.56	0.43	10.60	24.73	33	-8.27
2506.00	89.31	287	1.0	V	14.03	0.43	10.60	24.20	33	-8.80
LTE Band 41 Channel 40620 – 20MHz – 16QAM										
2593.00	88.54	47	1.8	H	14.54	0.43	10.60	24.71	33	-8.29
2593.00	89.30	243	1.4	V	14.02	0.43	10.60	24.19	33	-8.81
LTE Band 41 Channel 41490 – 20MHz – 16QAM										
2680.00	88.60	260	1.6	H	14.49	0.43	10.60	24.66	33	-8.34
2680.00	89.33	301	2.4	V	14.14	0.43	10.60	24.31	33	-8.69

8 Peak-to-Average Ratio

Test Requirement:	24.232 (d), 27.50(d)
Test Method:	N/A
Test Mode:	TX transmitting

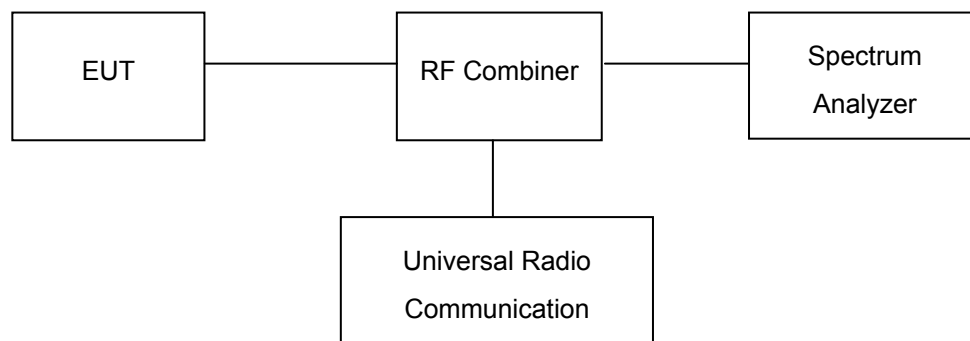
8.1 EUT Operation

Operating Environment :

Temperature:	22.5 °C
Humidity:	52.3% RH
Atmospheric Pressure:	101.2kPa

8.2 Test Procedure

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.



8.3 Test Result

PASS

LTE Band

Please refer to the Appendix Band 2/4/5/7/41 LTE Peak to Average Ratio.

9 BANDWIDTH

Test Requirement: FCC Part 2.1049, 22.917, 22.905, 24.238, 27.53(a)
Test Method: ANSI C63.26:2015
KDB971168 D01 v03r01
Test Mode: TX transmitting

9.1 EUT Operation

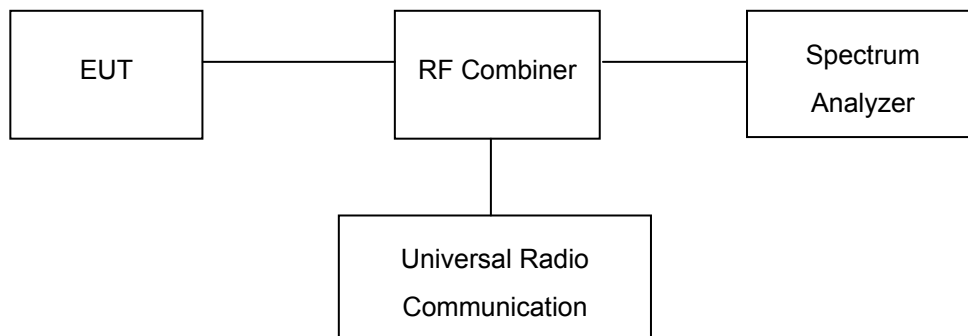
Operating Environment :

Temperature: 22.5 °C
Humidity: 52.3% RH
Atmospheric Pressure: 101.2kPa

9.2 Test Procedure

The RF output of the transmitter was connected to the wireless test set and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set in the range of 1 to 5 % of the anticipated OBW and the 26 dB & 99%bandwidth was recorded.



9.3 Test Result

LTE Band 2 (Part 24E):

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	18607	1850.7	QPSK	1.08	1.25
			16QAM	1.08	1.26
1.4	18900	1880	QPSK	1.08	1.24
			16QAM	1.09	1.24
1.4	19193	1909.3	QPSK	1.09	1.27
			16QAM	1.09	1.26
3	18615	1851.5	QPSK	2.67	2.83
			16QAM	2.67	2.83
3	18900	1880	QPSK	2.68	2.84
			16QAM	2.68	2.84
3	19185	1908.5	QPSK	2.68	2.84
			16QAM	2.68	2.84
5	18625	1852.5	QPSK	4.49	4.78
			16QAM	4.49	4.77
5	18900	1880	QPSK	4.49	4.79
			16QAM	4.48	4.78
5	19175	1907.5	QPSK	4.48	4.78
			16QAM	4.49	4.79
10	18650	1855	QPSK	8.92	9.31
			16QAM	8.92	9.31
10	18900	1880	QPSK	8.92	9.31
			16QAM	8.92	9.29
10	19150	1905	QPSK	8.92	9.31
			16QAM	8.92	9.31
15	18675	1857.5	QPSK	13.45	14.23
			16QAM	13.45	14.21
15	18900	1880	QPSK	13.47	14.23
			16QAM	13.45	14.22
15	19125	1902.5	QPSK	13.44	14.23
			16QAM	13.44	14.22
20	18700	1860	QPSK	17.88	18.73

			16QAM	17.88	18.73
20	18900	1880	QPSK	17.89	18.72
			16QAM	17.89	18.74
20	19100	1900	QPSK	17.88	18.75
			16QAM	17.88	18.75

LTE Band 4 (Part 27):

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	19957	1710.7	QPSK	1.08	1.24
			16QAM	1.08	1.26
1.4	2.175	1732.5	QPSK	1.08	1.24
			16QAM	1.08	1.23
1.4	20393	1754.3	QPSK	1.09	1.26
			16QAM	1.08	1.26
3	19965	1711.5	QPSK	2.68	2.83
			16QAM	2.67	2.82
3	2.175	1732.5	QPSK	2.68	2.84
			16QAM	2.68	2.84
3	2.385	1753.5	QPSK	2.68	2.83
			16QAM	2.67	2.84
5	19975	1712.5	QPSK	4.49	4.79
			16QAM	4.48	4.76
5	20175	1732.5	QPSK	4.49	4.78
			16QAM	4.48	4.77
5	20375	1752.5	QPSK	4.48	4.77
			16QAM	4.48	4.78
10	2000	1715	QPSK	8.92	9.3
			16QAM	8.92	9.3
10	20175	1732.5	QPSK	8.92	9.31
			16QAM	8.91	9.3
10	20350	1750	QPSK	8.92	9.3
			16QAM	8.92	9.31
15	20025	1717.5	QPSK	13.44	14.22
			16QAM	13.44	14.21
15	20175	1732.5	QPSK	13.46	14.22

			16QAM	13.44	14.22
15	20325	1747.5	QPSK	13.44	14.21
			16QAM	13.44	14.21
20	20050	1720	QPSK	17.89	18.73
			16QAM	17.89	18.73
20	20175	1732.5	QPSK	17.88	18.72
			16QAM	17.88	18.73
20	20300	1745	QPSK	17.86	18.73
			16QAM	17.87	18.71

LTE Band 5 (Part 22H):

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
1.4	20407	824.7	QPSK	1.08	1.24
			16QAM	1.08	1.26
1.4	20525	836.5	QPSK	1.08	1.24
			16QAM	1.09	1.23
1.4	20643	848.3	QPSK	1.09	1.19
			16QAM	1.08	1.26
3	20415	825.5	QPSK	2.67	2.83
			16QAM	2.67	2.82
3	20525	836.5	QPSK	2.68	2.83
			16QAM	2.68	2.83
3	20635	847.5	QPSK	2.68	2.83
			16QAM	2.68	2.83
5	20425	826.5	QPSK	4.49	4.79
			16QAM	4.49	4.77
5	20525	836.5	QPSK	4.49	4.78
			16QAM	4.49	4.78
5	20625	846.5	QPSK	4.48	4.77
			16QAM	4.49	4.78
10	20450	829.0	QPSK	8.93	9.32
			16QAM	8.92	9.31
10	20525	836.5	QPSK	8.92	9.31
			16QAM	8.92	9.3
10	20600	844.0	QPSK	8.93	9.32

			16QAM	8.92	9.31
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LTE Band 7 (Part 27):

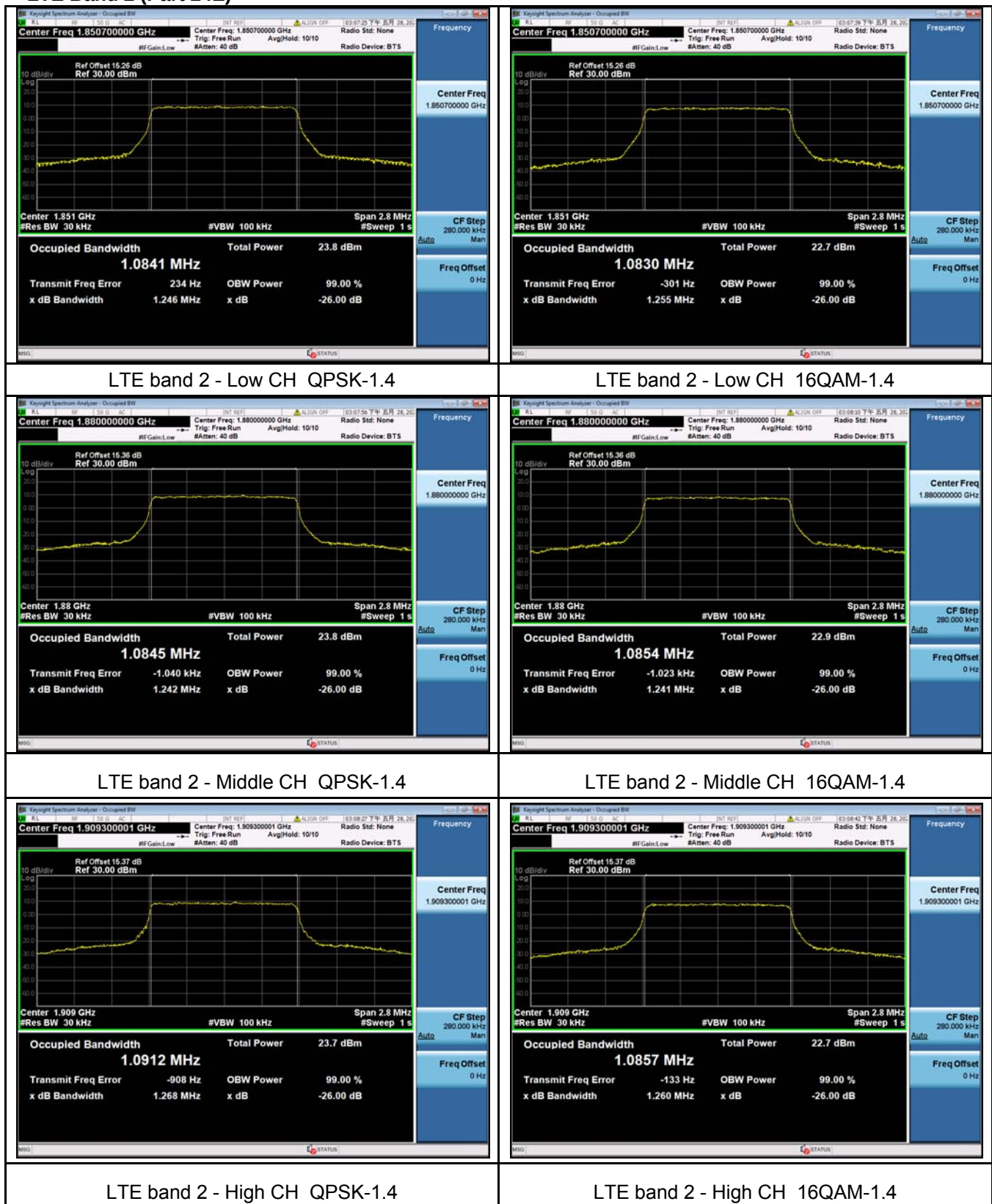
BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
5	20775	2502.5	QPSK	4.49	4.78
			16QAM	4.49	4.76
5	21100	2535	QPSK	4.49	4.78
			16QAM	4.48	4.77
5	21425	2567.5	QPSK	4.48	4.76
			16QAM	4.48	4.78
10	20850	2510	QPSK	8.93	9.31
			16QAM	8.92	9.32
10	21100	2535	QPSK	8.91	9.3
			16QAM	8.91	9.3
10	21400	2565	QPSK	8.92	9.3
			16QAM	8.92	9.3
15	20800	2505	QPSK	13.45	14.23
			16QAM	13.45	14.21
15	21100	2535	QPSK	13.44	14.22
			16QAM	13.43	14.21
15	21375	2562.5	QPSK	13.44	14.22
			16QAM	13.45	14.22
20	20825	2507.5	QPSK	17.88	18.72
			16QAM	17.88	18.73
20	21100	2535	QPSK	17.88	18.73
			16QAM	17.87	18.72
20	21350	2560	QPSK	17.89	18.75
			16QAM	17.89	18.75

LTE Band 41 (Part 27)

BW(MHz)	Channel	Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
5	40265	2557.5	QPSK	4.48	4.77
			16QAM	4.49	4.75
5	40740	2605.0	QPSK	4.49	4.76
			16QAM	4.48	4.77
5	41215	2652.5	QPSK	4.48	4.75
			16QAM	4.48	4.75
10	40290	2560.0	QPSK	8.91	9.28
			16QAM	8.92	9.28
10	40740	2605.0	QPSK	8.91	9.3
			16QAM	8.91	9.29
10	41190	2650.0	QPSK	8.92	9.27
			16QAM	8.92	9.29
15	40315	2562.5	QPSK	13.43	14.21
			16QAM	13.43	14.21
15	40740	2605.0	QPSK	13.44	14.21
			16QAM	13.44	14.22
15	41165	2647.5	QPSK	13.42	14.21
			16QAM	13.42	14.21
20	40340	2565.0	QPSK	17.88	18.72
			16QAM	17.88	18.71
20	40740	2605.0	QPSK	17.86	18.72
			16QAM	17.88	18.72
20	41140	2645.0	QPSK	17.87	18.73
			16QAM	17.88	18.72

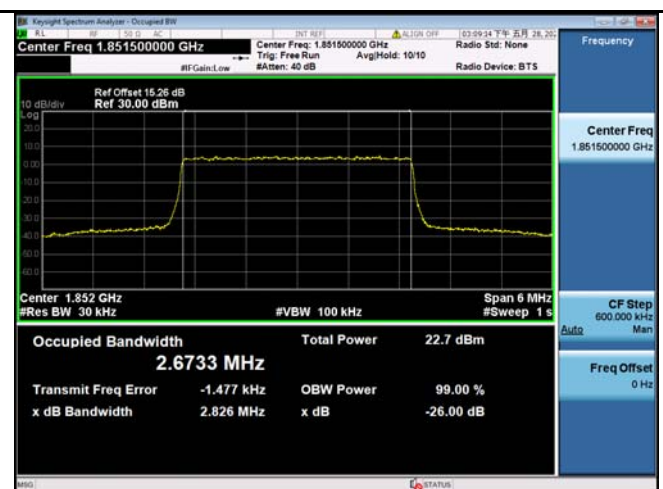
Test Plots

LTE Band 2 (Part 24E)





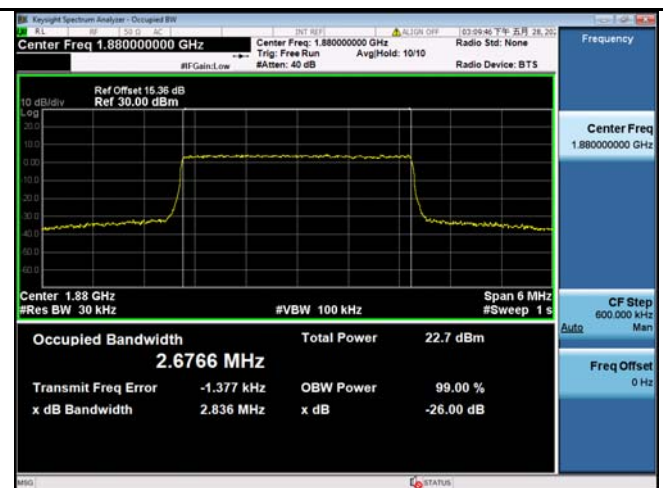
LTE band 2 - Low CH QPSK-3



LTE band 2 - Low CH 16QAM-3



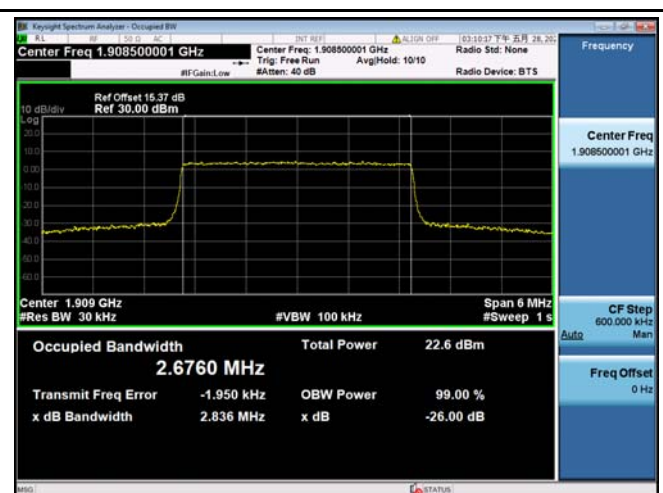
LTE band 2 - Middle CH QPSK-3



LTE band 2 - Middle CH 16QAM-3



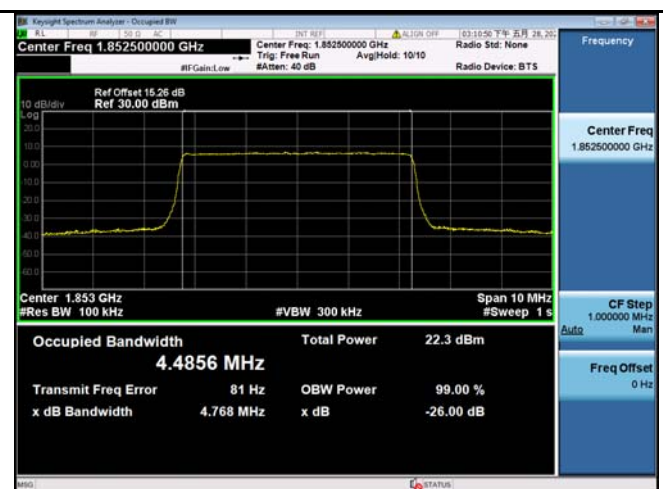
LTE band 2 - High CH QPSK-3



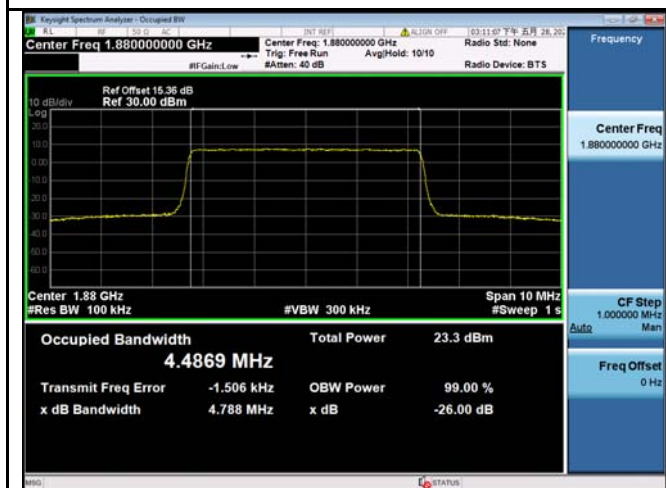
LTE band 2 - High CH 16QAM-3



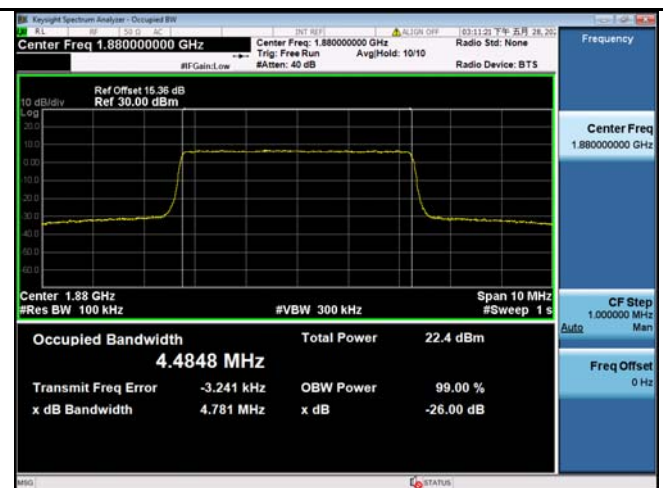
LTE band 2 - Low CH QPSK-5



LTE band 2 - Low CH 16QAM-5



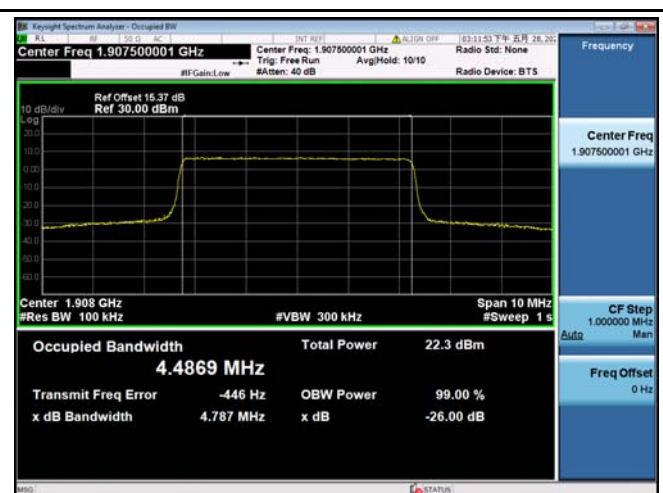
LTE band 2 - Middle CH QPSK-5



LTE band 2 - Middle CH 16QAM-5



LTE band 2 - High CH QPSK-5



LTE band 2 - High CH 16QAM-5



LTE band 2 - Low CH QPSK-10



LTE band 2 - Low CH 16QAM-10



LTE band 2 - Middle CH QPSK-10



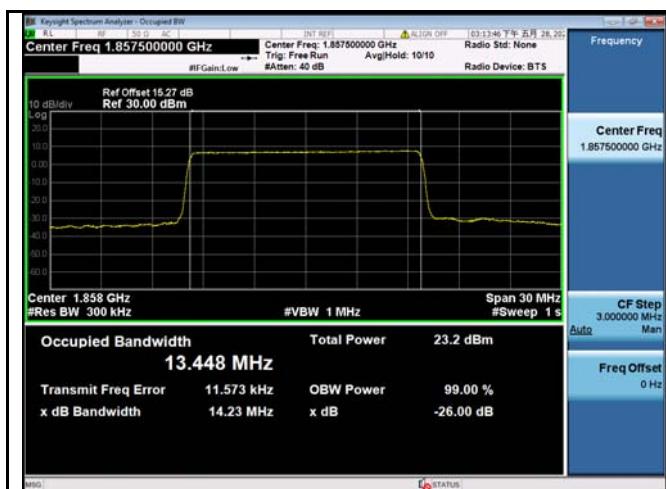
LTE band 2 - Middle CH 16QAM-10



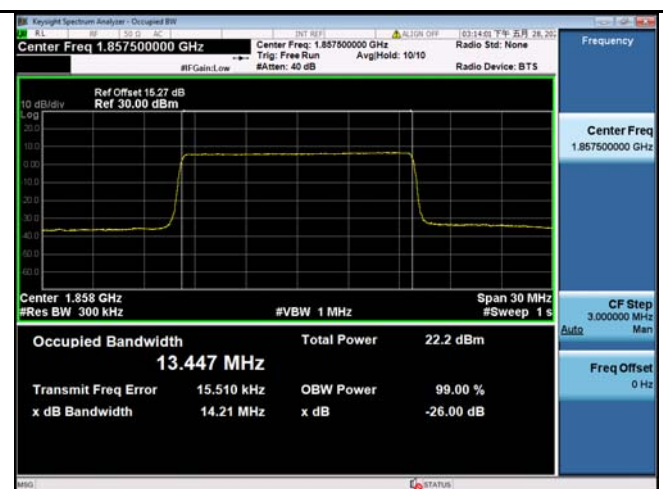
LTE band 2 - High CH QPSK-10



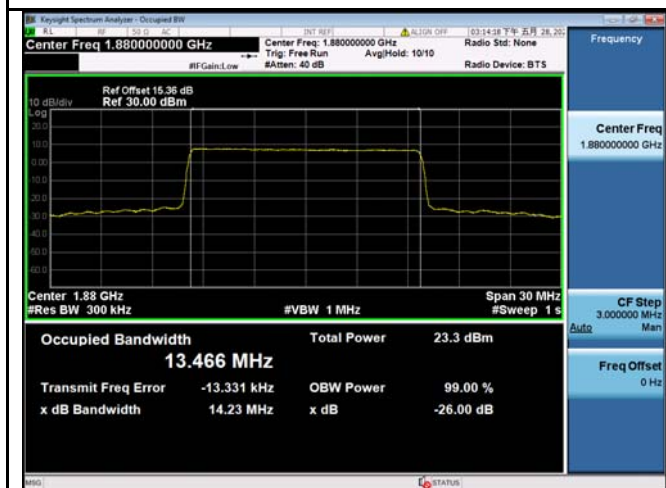
LTE band 2 - High CH 16QAM-10



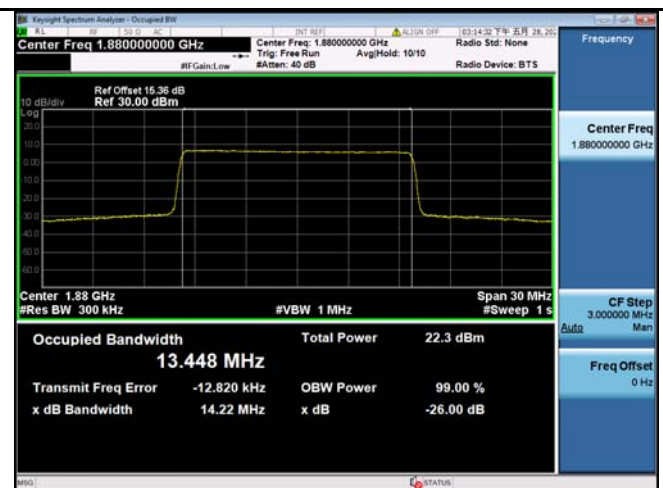
LTE band 2 - Low CH QPSK-15



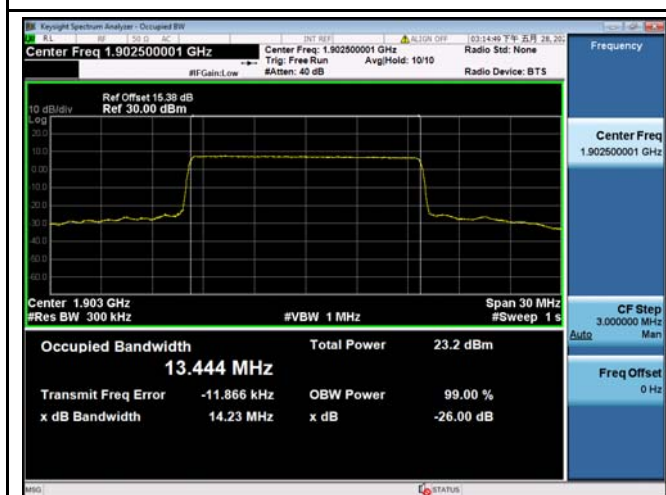
LTE band 2 - Low CH 16QAM-15



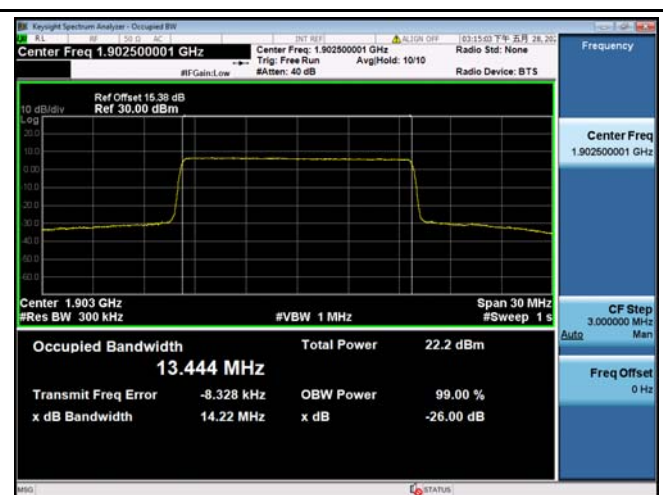
LTE band 2 - Middle CH QPSK-15



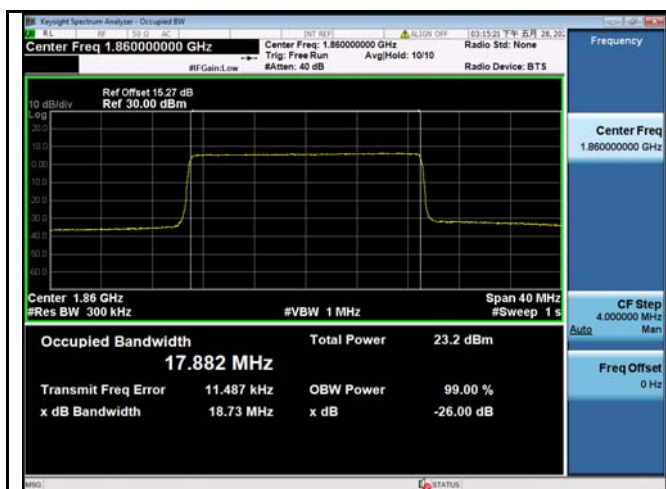
LTE band 2 - Middle CH 16QAM-15



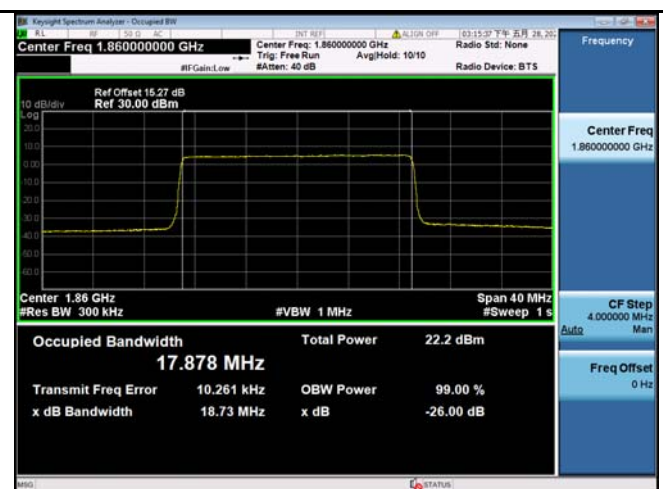
LTE band 2 - High CH QPSK-15



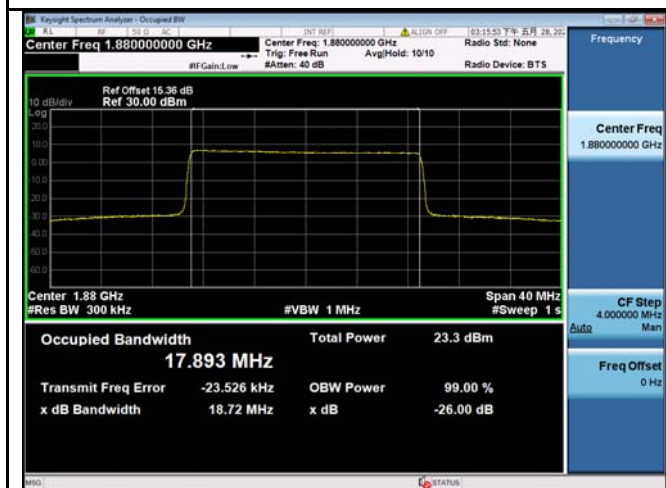
LTE band 2 - High CH 16QAM-15



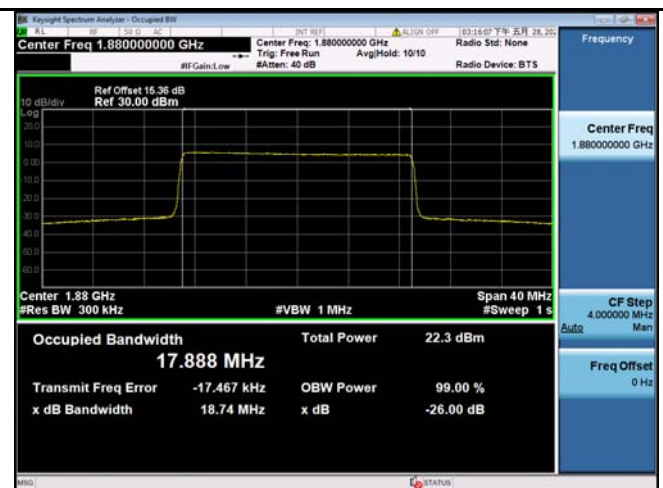
LTE band 2 - Low CH QPSK-20



LTE band 2 - Low CH 16QAM-20



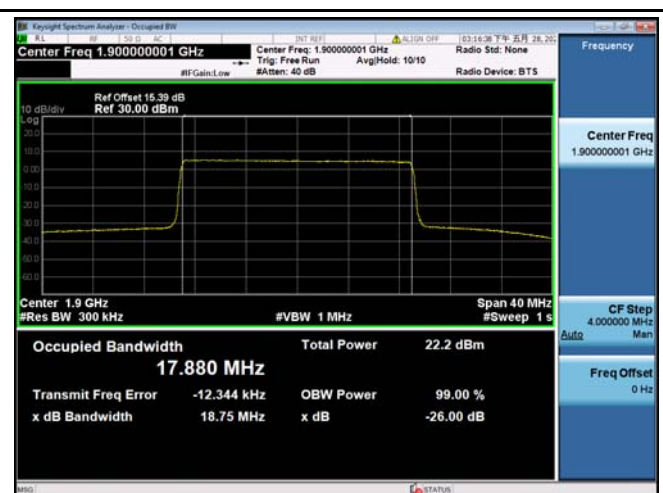
LTE band 2 - Middle CH QPSK-20



LTE band 2 - Middle CH 16QAM-20

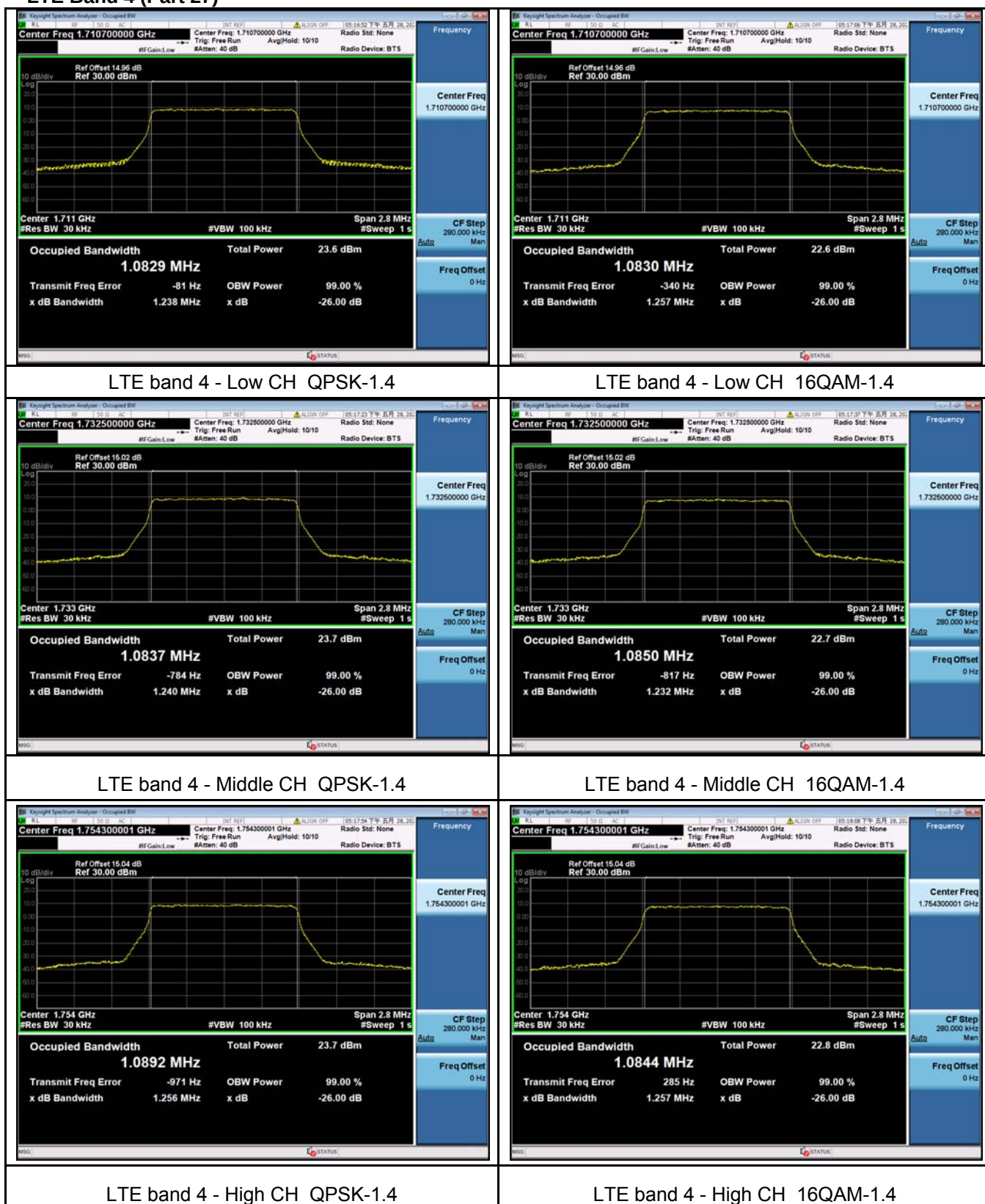


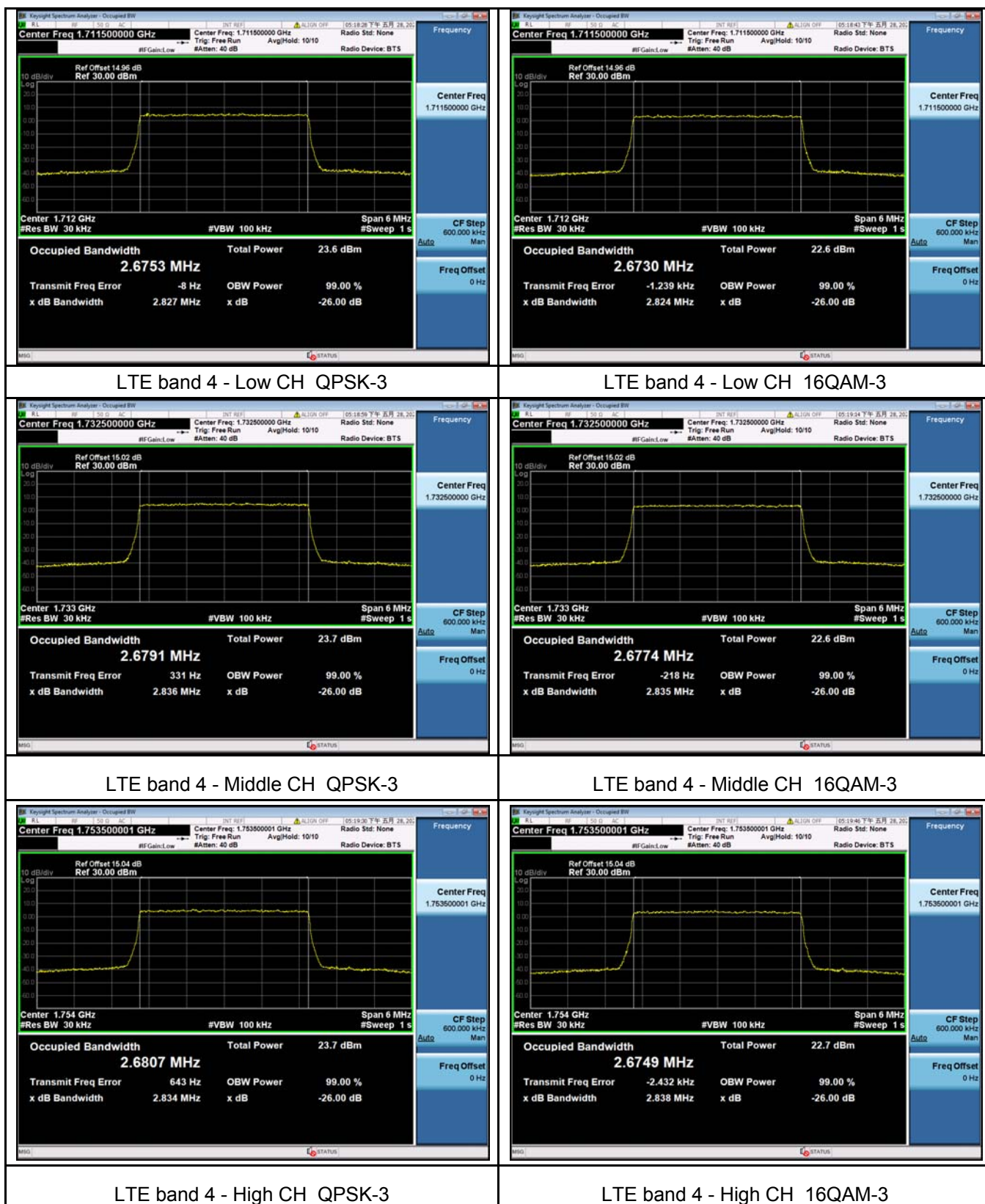
LTE band 2 - High CH QPSK-20

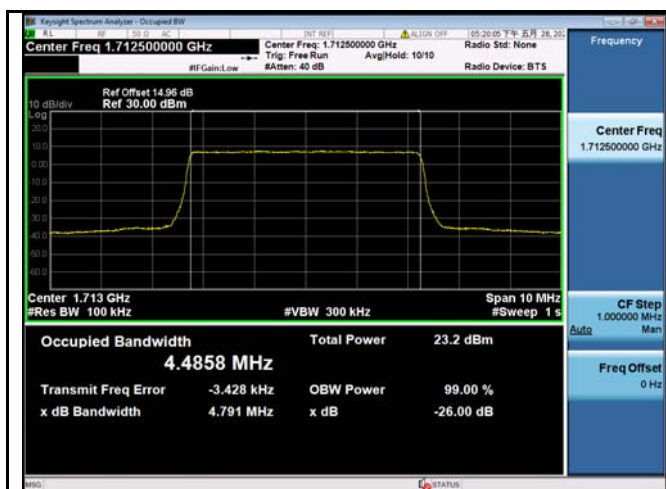


LTE band 2 - High CH 16QAM-20

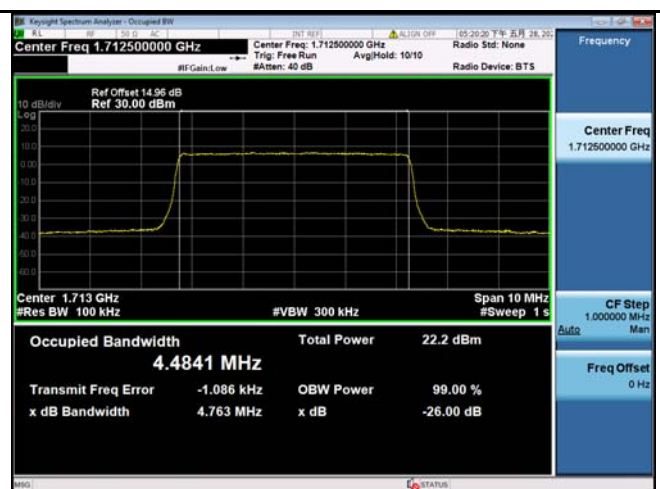
LTE Band 4 (Part 27)



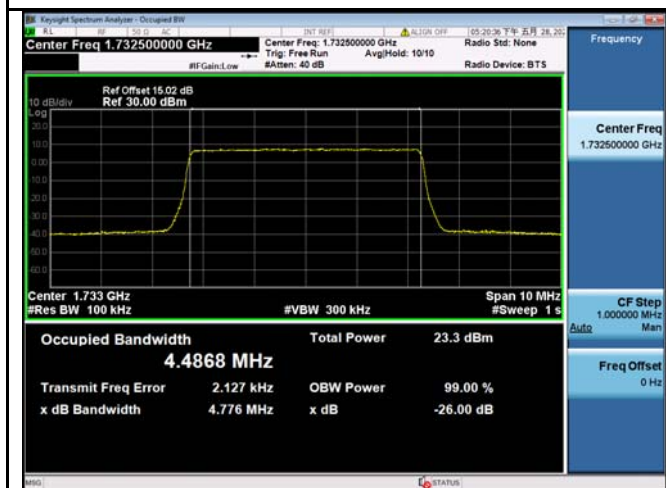




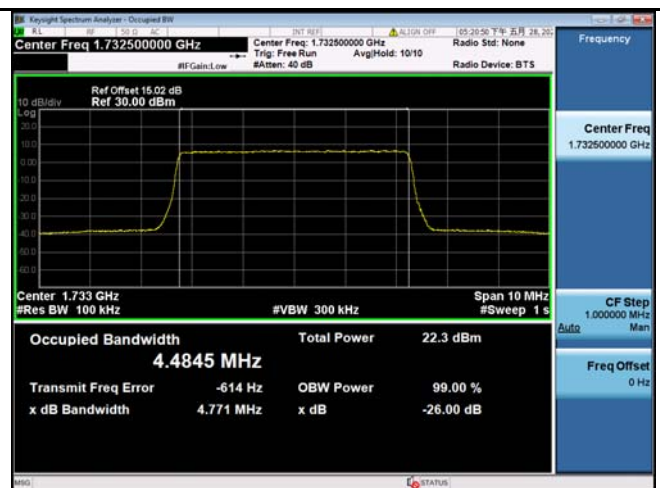
LTE band 4 - Low CH QPSK-5



LTE band 4 - Low CH 16QAM-5



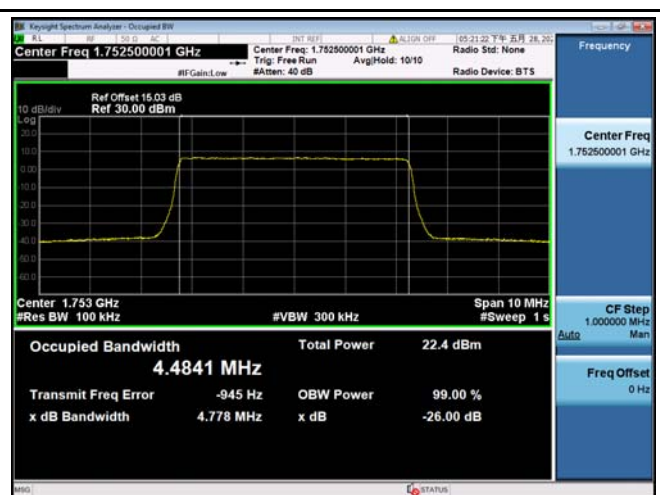
LTE band 4 - Middle CH QPSK-5



LTE band 4 - Middle CH 16QAM-5



LTE band 4 - High CH QPSK-5



LTE band 4 - High CH 16QAM-5



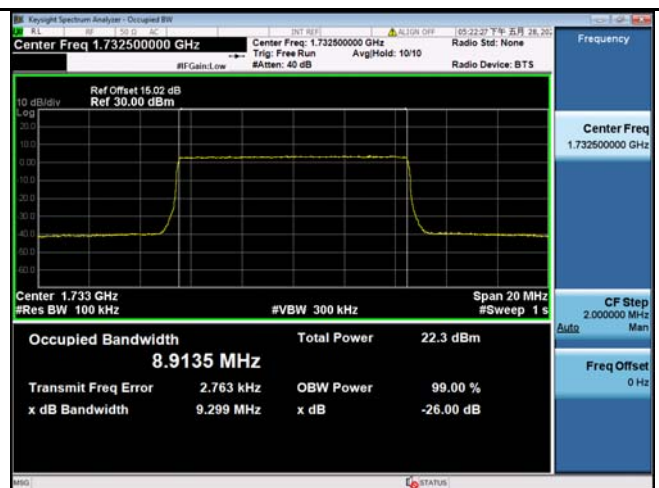
LTE band 4 - Low CH QPSK-10



LTE band 4 - Low CH 16QAM-10



LTE band 4 - Middle CH QPSK-10



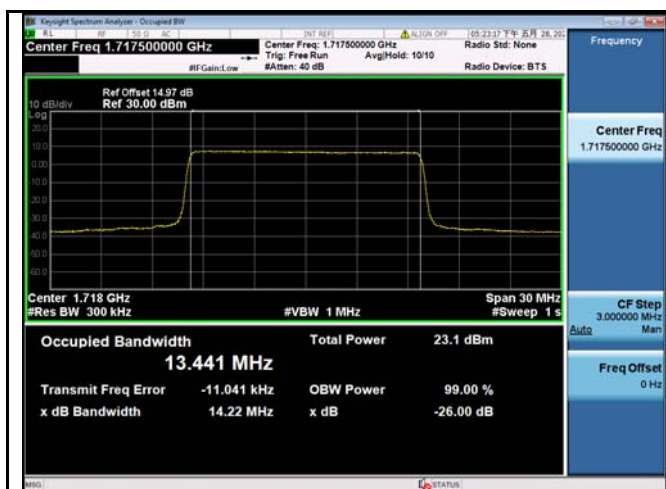
LTE band 4 - Middle CH 16QAM-10



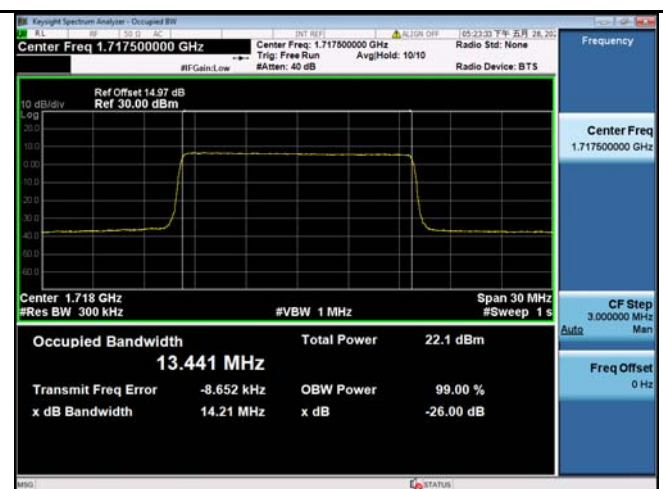
LTE band 4 - High CH QPSK-10



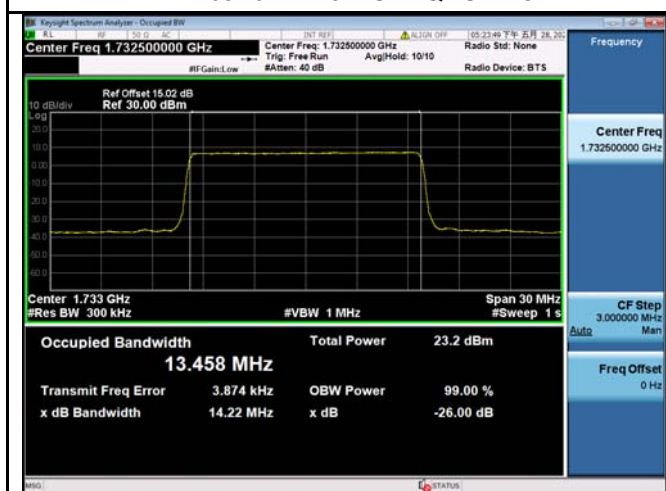
LTE band 4 - High CH 16QAM-10



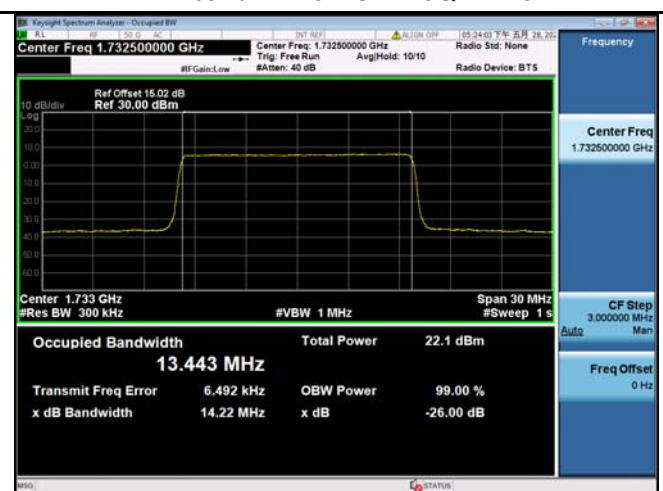
LTE band 4 - Low CH QPSK-15



LTE band 4 - Low CH 16QAM-15



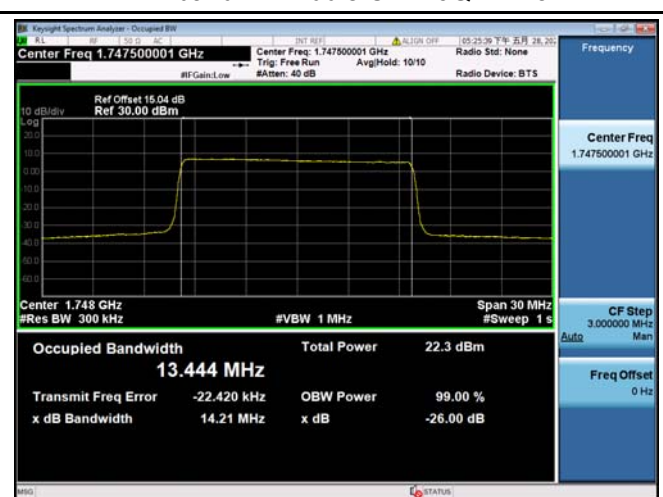
LTE band 4 - Middle CH QPSK-15



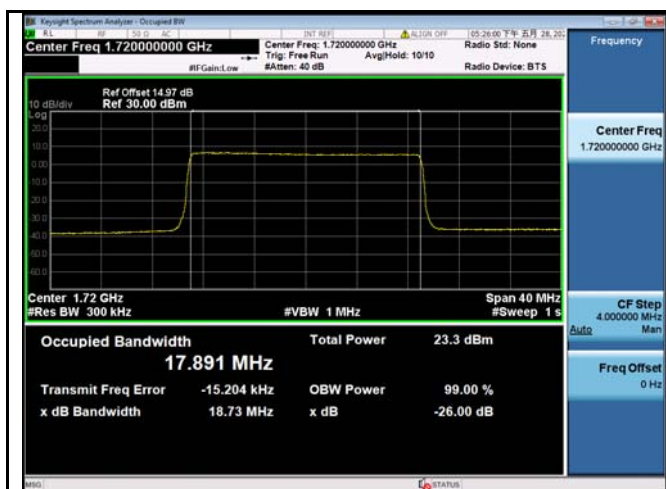
LTE band 4 - Middle CH 16QAM-15



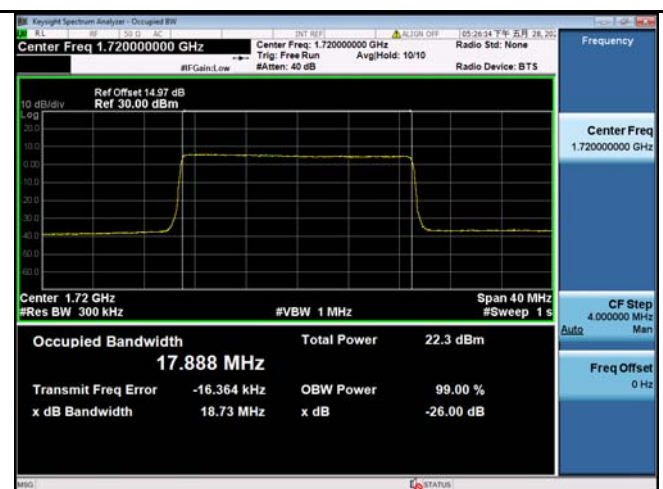
LTE band 4 - High CH QPSK-15



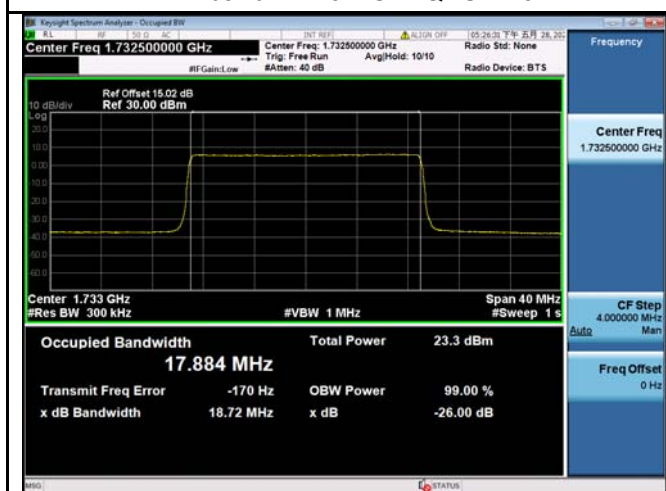
LTE band 4 - High CH 16QAM-15



LTE band 4 - Low CH QPSK-20



LTE band 4 - Low CH 16QAM-20



LTE band 4 - Middle CH QPSK-20



LTE band 4 - Middle CH 16QAM-20

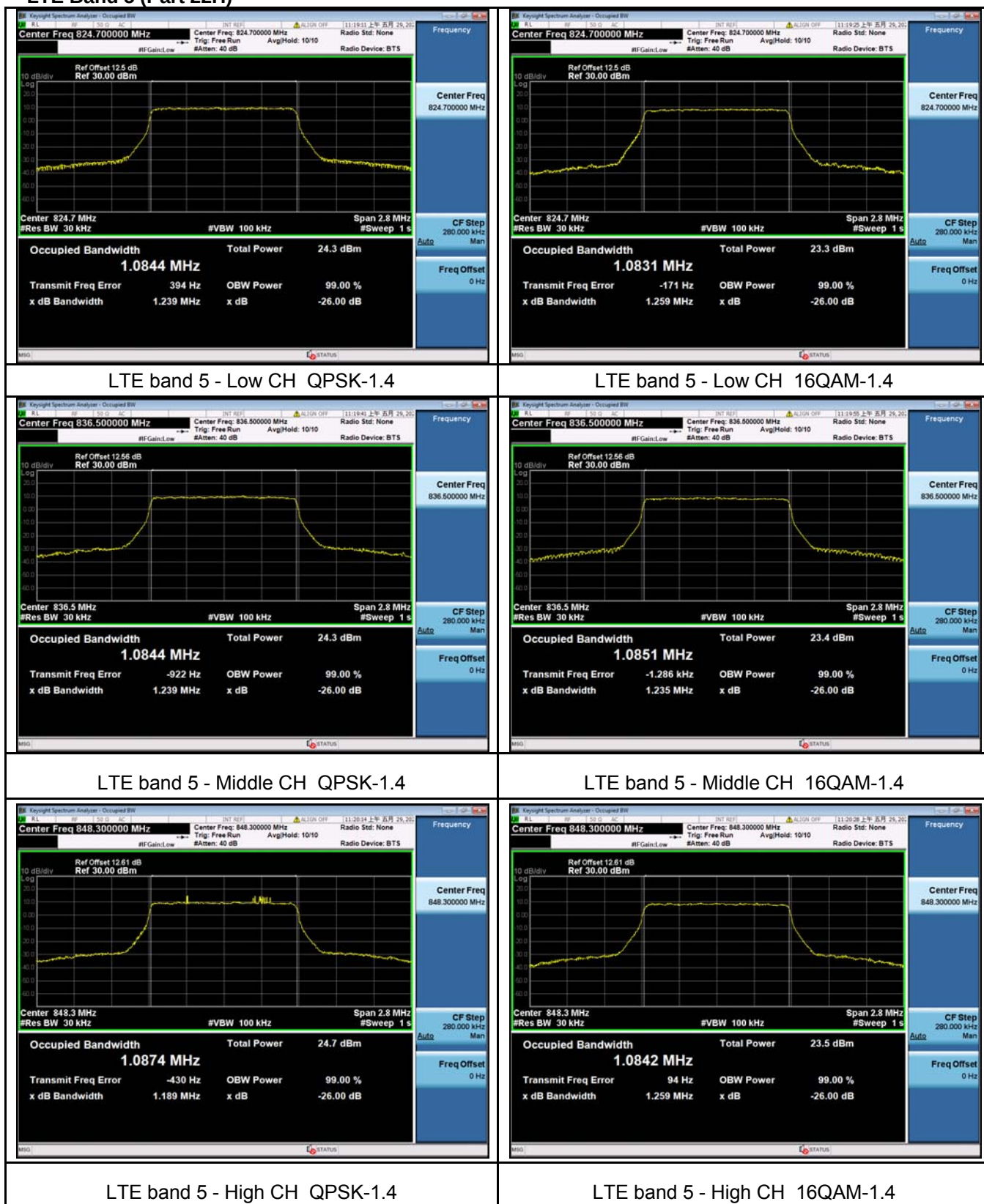


LTE band 4 - High CH QPSK-20



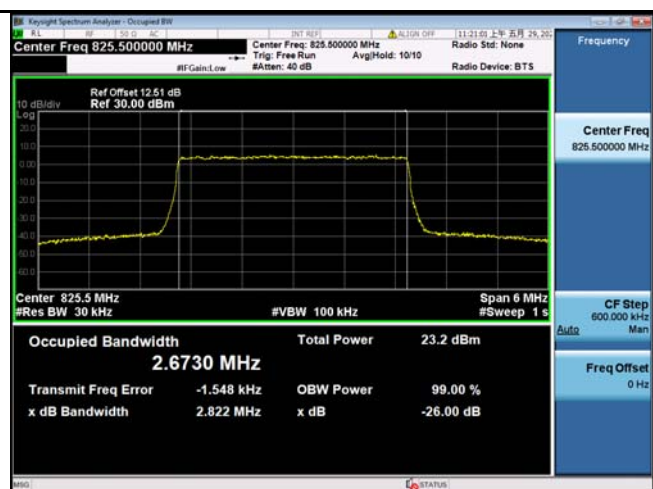
LTE band 4 - High CH 16QAM-20

LTE Band 5 (Part 22H)





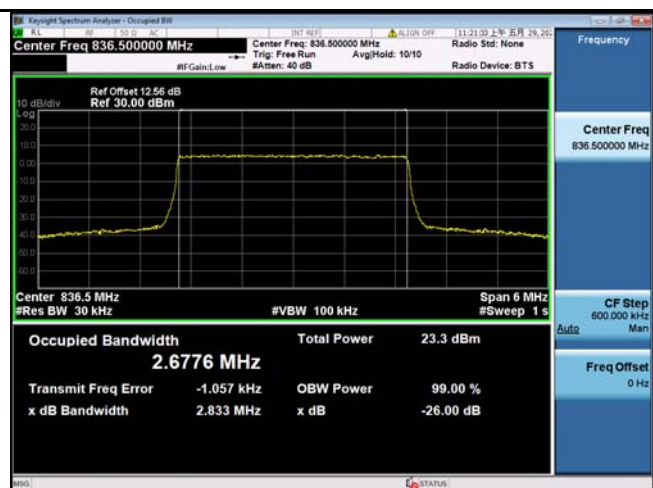
LTE band 5 - Low CH QPSK-3



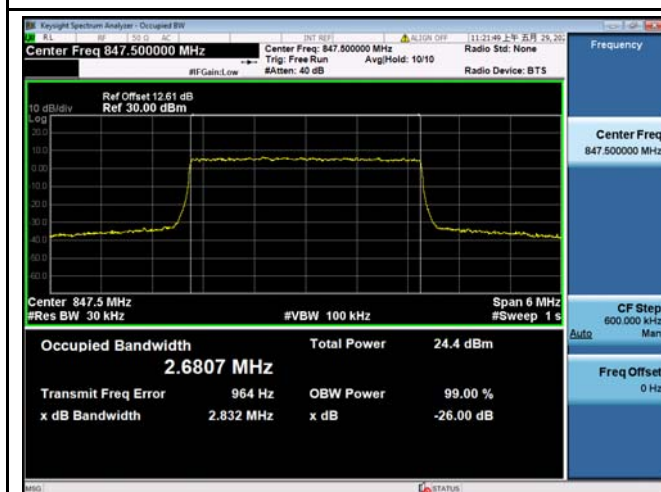
LTE band 5 - Low CH 16QAM-3



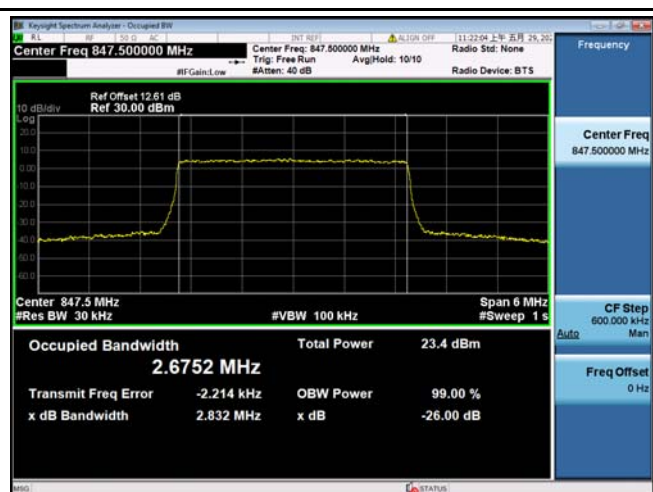
LTE band 5 - Middle CH QPSK-3



LTE band 5 - Middle CH 16QAM-3



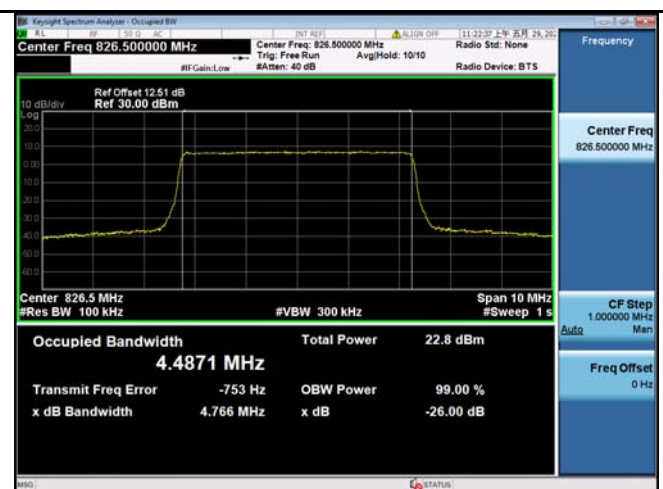
LTE band 5 - High CH QPSK-3



LTE band 5 - High CH 16QAM-3



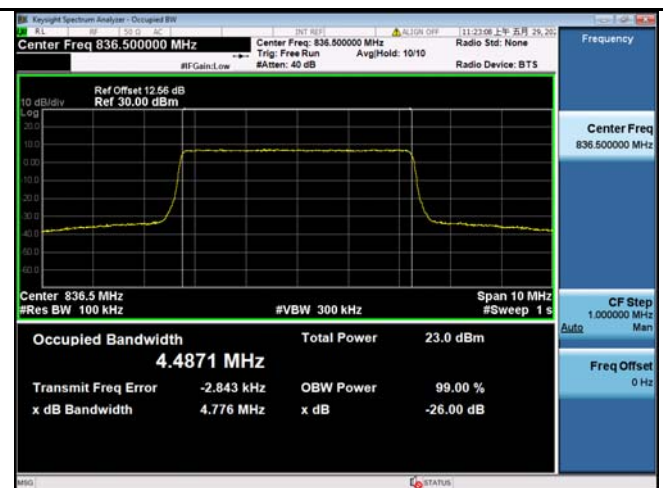
LTE band 5 - Low CH QPSK-5



LTE band 5 - Low CH 16QAM-5



LTE band 5 - Middle CH QPSK-5



LTE band 5 - Middle CH 16QAM-5



LTE band 5 - High CH QPSK-5



LTE band 5 - High CH 16QAM-5



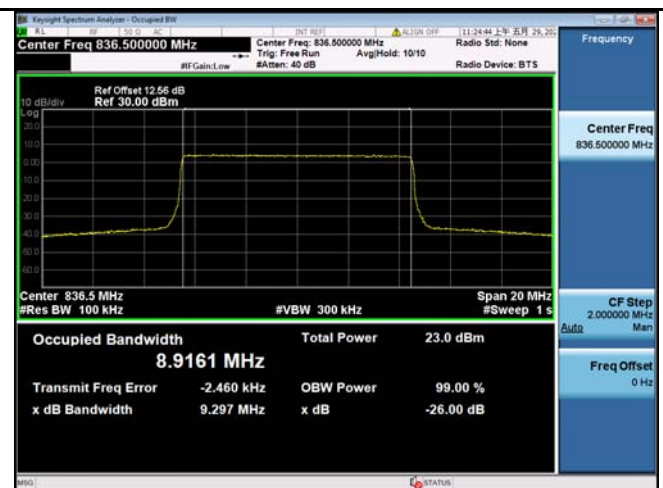
LTE band 5 - Low CH QPSK-10



LTE band 5 - Low CH 16QAM-10



LTE band 5 - Middle CH QPSK-10



LTE band 5 - Middle CH 16QAM-10



LTE band 5 - High CH QPSK-10



LTE band 5 - High CH 16QAM-10