FCC RF Test Report

APPLICANT	:	**Motorola Mobility LLC**
EQUIPMENT	:	**Mobile Cellular Phone**
BRAND NAME	:	**T-Mobile**
MODEL NAME	:	**XT1965-T**
FCC ID	:	**IHDT56XN4**
STANDARD	:	**47 CFR Part 2, and 90(S)**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**

The product was received on Feb. 01, 2019 and completely tested on Feb. 21, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

James Huang

Approved by: James Huang / Manager

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TESTING
NVLAP LAB CODE 600155-0

Sporton International (Kunshan) Inc.
No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW920101B	Rev. 01	Initial issue of report	Apr. 01, 2019
FW920101B	Rev. 02	Update Brand Name to T-Mobile	Apr. 12, 2019

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	PASS	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< $50+10\log_{10}$(P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< $43+10\log_{10}$(P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 50.82 dB at 2444.000 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	T-Mobile
Model Name	XT1965-T
FCC ID	IHDT56XN4
EUT supports Radios application	CDMA/EVDO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC/GNSS/FM Receiver
IMEI Code	Conducted: 355572090010645 Radiation: 355572090012591
HW Version	PVT
SW Version	PCW29.81
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	814.7 ~ 823.3 MHz
Rx Frequency	859.7 ~ 868.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	23.10 dBm
Antenna Type	Internal Antenna
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola (Salom)	**Model Name**	SC-31
	Power Rating	I/P: 100-240 Vac, 800mA O/P: 5Vdc,3000mA; 9Vdc,3000mA		
AC Adapter 2	**Brand Name**	Motorola (Acbel)	**Model Name**	SC-31
	Power Rating	I/P: 100-240 Vac, 800mA O/P: 5Vdc,3000mA; 9Vdc,3000mA		
Battery	**Brand Name**	Motorola(Amperex)	**Model Name**	JG40
	Power Rating	3.8Vdc,3000mAh	**Type**	Li-ion
USB Cable	**Brand Name**	Motorola (Cabletech)	**Model Name**	SC18C47591
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		

1.7 Maximum Conducted Power, Frequency Tolerance and Emission Designator

FCC Rule	System	Type of Modulation	BW	Frequency Tolerance (ppm)	Emission Designator	Maximum Conducted power(W)
Part 90S	LTE Band 26	QPSK	1.4 MHz	-	1M09G7D	0.2009
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M09W7D	0.1738
Part 90S	LTE Band 26	64QAM	1.4 MHz	-	1M09W7D	0.1413
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M73G7D	0.2014
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M72W7D	0.1786
Part 90S	LTE Band 26	64QAM	3 MHz	-	2M75W7D	0.1416
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M51G7D	0.1995
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M49W7D	0.1766
Part 90S	LTE Band 26	64QAM	5 MHz	-	4M50W7D	0.1514
Part 90S	LTE Band 26	QPSK	10 MHz	0.0088	9M05G7D	0.1995
Part 90S	LTE Band 26	16QAM	10 MHz	-	9M05W7D	0.1641
Part 90S	LTE Band 26	64QAM	10 MHz	-	9M09W7D	0.1413
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M5G7D	0.2042
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M4W7D	0.1683
Part 90S	LTE Band 26	64QAM	15 MHz	-	13M4W7D	0.1510

1.8 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC designation No.**	**FCC Test Firm Registration No.**
	TH01-KS 03CH06-KS	CN5013	630927

1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 10th harmonic.

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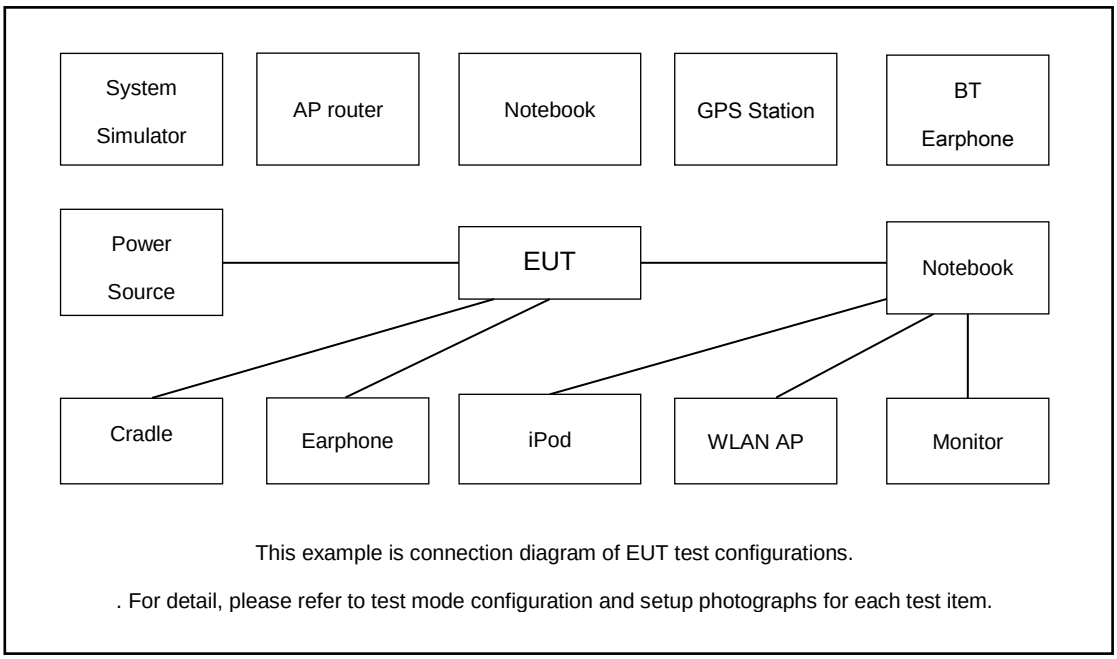
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v	v			v	v	v	v
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v	v		v	v		v
Emission masks – Out of band emissions	26	v	v	v	v	v	-	v	v	v	v			v	v	v
Frequency Stability	26				v		-	v					v		v	
Radiated Spurious Emission	26				v		-	v			v				v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

The following shows an offset computation example with RF cable loss 4.5 dB.

Example :

Offset(dB) = RF cable loss(dB)

= 4.5 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
15	Channel	26765	-	-
	Frequency	821.5	-	-
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

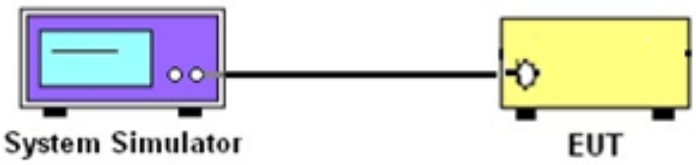
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

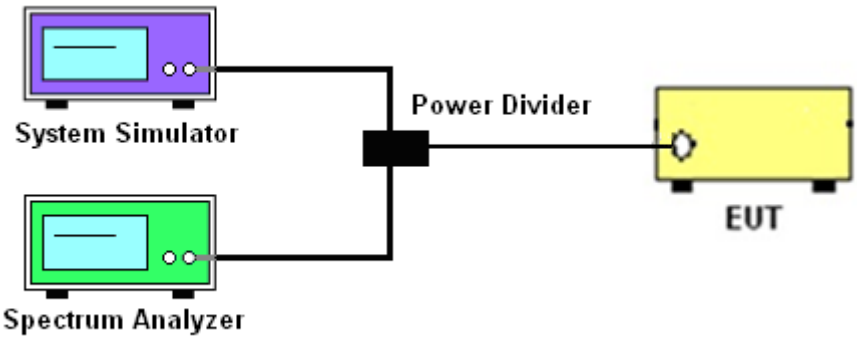
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

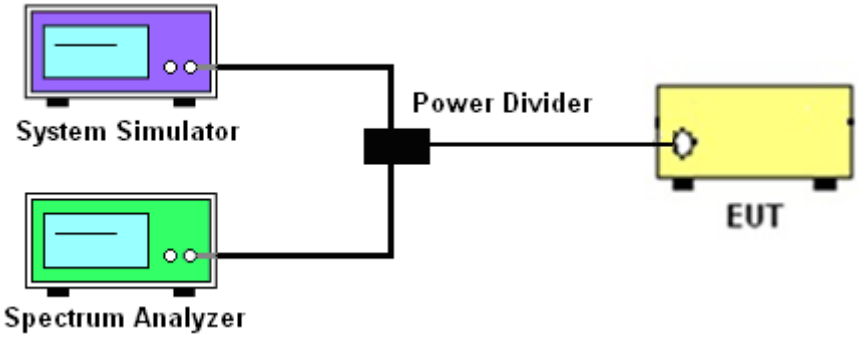
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

3.4 Emissions Mask – Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

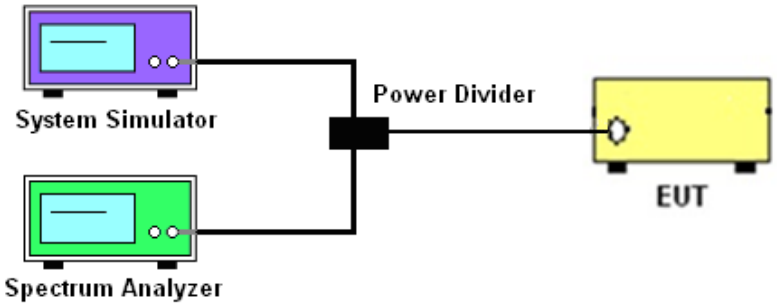
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43+10\log_{10}(P[Watts])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

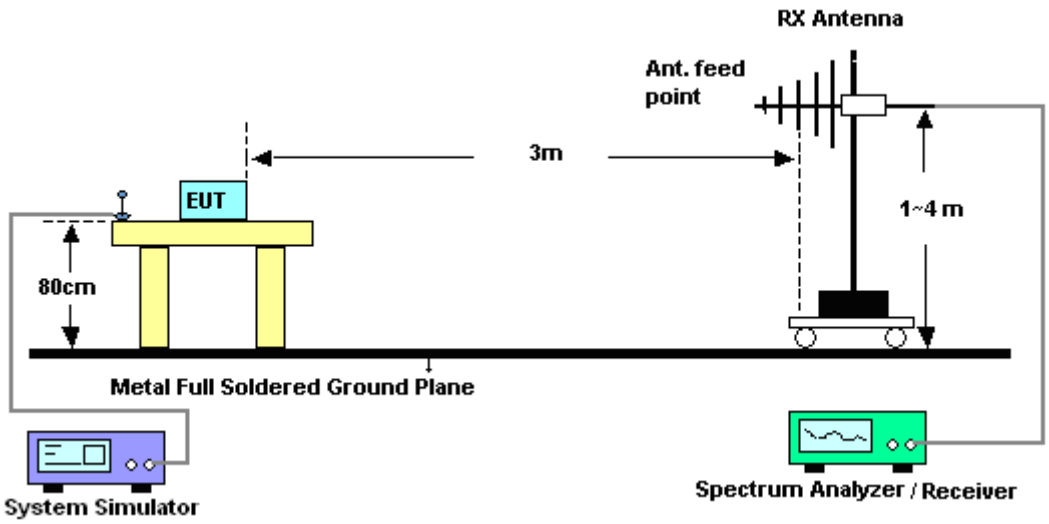
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

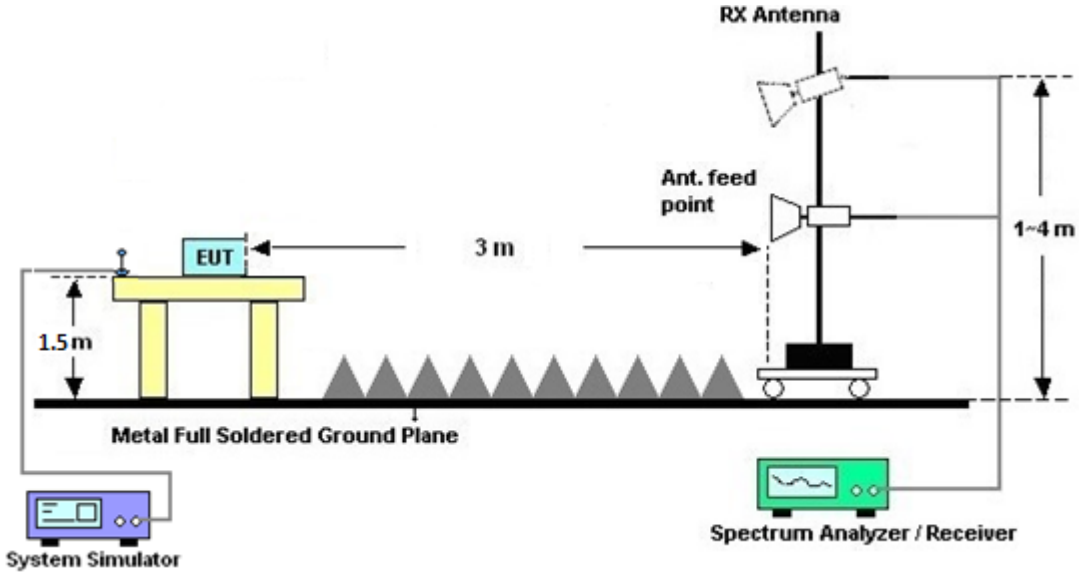
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

3.5.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

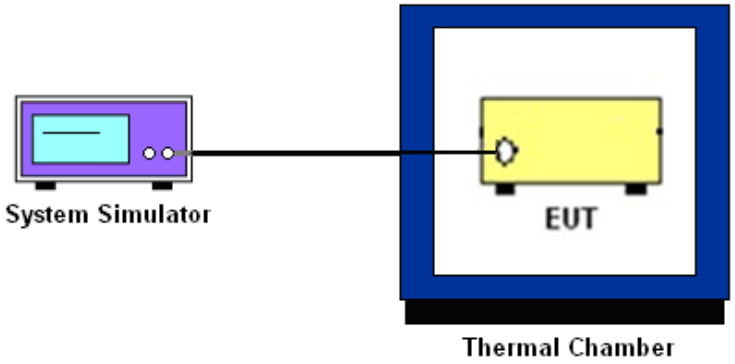
3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.6.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
4. battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Apr. 19, 2018	Feb. 03, 2019~ Feb. 16, 2019	Apr. 18, 2019	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jun. 27, 2018	Feb. 03, 2019~ Feb. 16, 2019	Jun. 26, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz-44GHz	Jun. 25, 2018	Feb. 21, 2019	Jun. 24, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Feb. 21, 2019	Dec. 27, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Feb. 21, 2019	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	Feb. 21, 2019	Jan. 04, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Feb. 21, 2019	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Jan. 14, 2019	Feb. 21, 2019	Jan. 13, 2020	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Feb. 21, 2019	Apr. 16, 2019	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Feb. 21, 2019	NCR	Radiation (03CH06-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Feb. 21, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Feb. 21, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.5 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.0 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.10	-	-
15	1	37		22.92		
15	1	74		22.94		
15	36	0		21.95		
15	36	20		22.09		
15	36	39		22.03		
15	75	0		22.07		
15	1	0	16-QAM	22.26		
15	1	37		22.16		
15	1	74		22.24		
15	36	0		21.07		
15	36	20		21.18		
15	36	39		21.06		
15	75	0		21.11		
15	1	0	64-QAM	21.47		
15	1	37		21.41		
15	1	74		21.79		
15	36	0		20.35		
15	36	20		20.36		
15	36	39		20.33		
15	75	0		20.44		

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	23.00	-
10	1	25			22.87	
10	1	49			22.81	
10	25	0			21.97	
10	25	12			21.98	
10	25	25			21.86	
10	50	0			21.96	
10	1	0	16-QAM		22.15	
10	1	25			21.91	
10	1	49			21.97	
10	25	0			21.10	
10	25	12			21.03	
10	25	25			20.98	
10	50	0			21.02	
10	1	0	64-QAM		21.44	
10	1	25			21.50	
10	1	49			21.32	
10	25	0			20.30	
10	25	12			20.34	
10	25	25			20.34	
10	50	0			20.33	

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.98	22.78	22.84
5	1	12		22.89	23.00	22.70
5	1	24		22.98	22.90	22.76
5	12	0		22.02	21.91	21.82
5	12	7		22.06	21.93	21.87
5	12	13		21.93	21.95	21.75
5	25	0		22.01	21.91	21.81
5	1	0	16-QAM	22.06	22.30	22.00
5	1	12		22.39	21.86	22.39
5	1	24		22.26	22.47	22.26
5	12	0		21.08	21.04	20.82
5	12	7		21.09	21.02	20.96
5	12	13		20.99	20.97	20.90
5	25	0		21.03	21.05	20.81
5	1	0	64-QAM	21.51	21.31	21.33
5	1	12		21.80	21.68	21.22
5	1	24		21.13	21.32	21.22
5	12	0		20.31	20.30	20.13
5	12	7		20.37	20.34	20.21
5	12	13		20.32	20.26	20.18
5	25	0		20.31	20.22	20.20

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.04	22.90	22.84
3	1	8		23.00	22.95	22.88
3	1	14		22.89	22.76	22.78
3	8	0		21.97	21.90	21.86
3	8	4		22.06	22.01	21.83
3	8	7		21.97	21.92	21.76
3	15	0		22.03	21.93	21.78
3	1	0	16-QAM	22.14	22.52	22.26
3	1	8		22.17	22.44	21.91
3	1	14		22.45	21.83	22.17
3	8	0		21.09	21.07	20.88
3	8	4		21.09	21.01	20.90
3	8	7		21.06	20.94	20.80
3	15	0		21.09	21.10	20.95
3	1	0	64-QAM	21.50	21.40	20.88
3	1	8		21.12	21.06	21.21
3	1	14		21.40	21.51	20.85
3	8	0		20.08	19.94	19.85
3	8	4		20.27	19.99	19.81
3	8	7		20.14	20.13	19.74
3	15	0		20.00	19.90	19.84

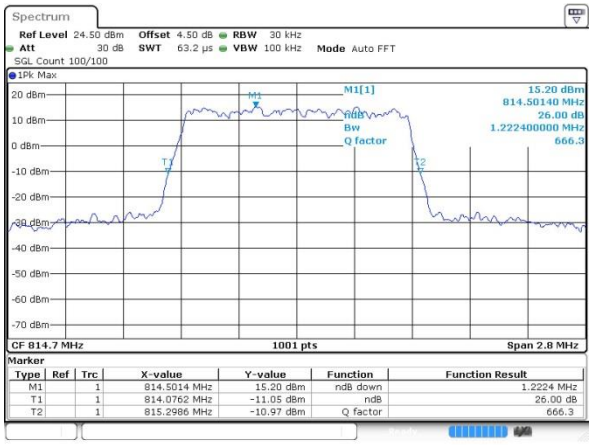
LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.96	22.91	22.71
1.4	1	3		22.96	22.98	22.76
1.4	1	5		22.93	22.90	22.67
1.4	3	0		22.96	22.89	22.75
1.4	3	1		23.00	22.92	22.80
1.4	3	3		23.03	22.91	22.69
1.4	6	0		22.06	21.93	21.73
1.4	1	0	16-QAM	21.98	22.38	22.10
1.4	1	3		22.40	22.33	21.97
1.4	1	5		22.13	22.38	22.19
1.4	3	0		21.87	21.97	21.67
1.4	3	1		22.10	22.01	21.91
1.4	3	3		22.05	21.94	21.76
1.4	6	0		21.08	21.09	20.86
1.4	1	0	64-QAM	21.17	21.23	20.76
1.4	1	3		21.38	21.50	20.85
1.4	1	5		21.13	20.90	21.08
1.4	3	0		21.39	21.05	20.91
1.4	3	1		21.11	21.10	21.08
1.4	3	3		21.17	21.14	21.08
1.4	6	0		20.12	20.04	19.95

26dB Bandwidth

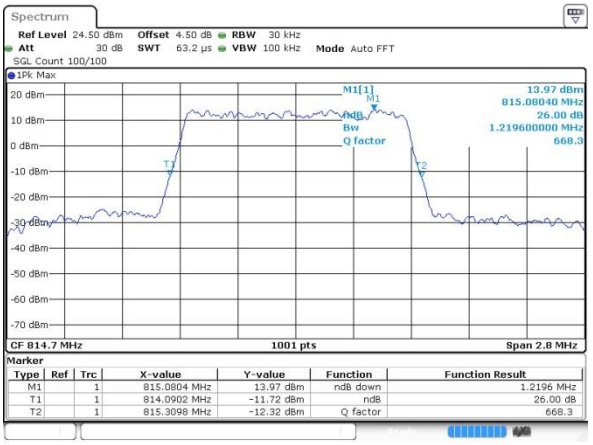
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.222	1.220	2.997	2.985	4.855	4.895	-	-	14.505	14.535	-	-
Middle CH	1.208	1.234	3.015	3.009	4.925	4.935	9.870	9.830	-	-	-	-
Highest CH	1.231	1.236	2.979	3.003	4.865	4.925	-	-	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.236		3.027		4.905		-		14.416		-	
Middle CH	1.228		3.003		4.915		9.730		-		-	
Highest CH	1.225		3.027		4.895		-		-		-	

LTE Band 26

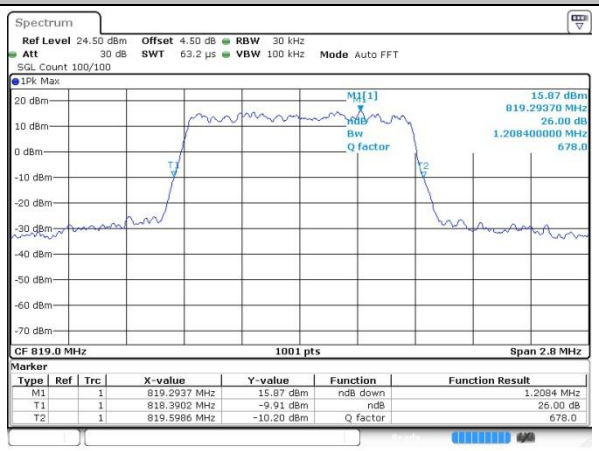
Lowest Channel / 1.4MHz / QPSK



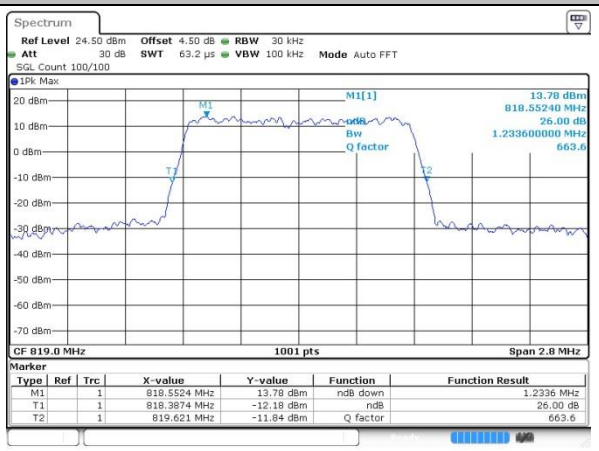
Lowest Channel / 1.4MHz / 16QAM



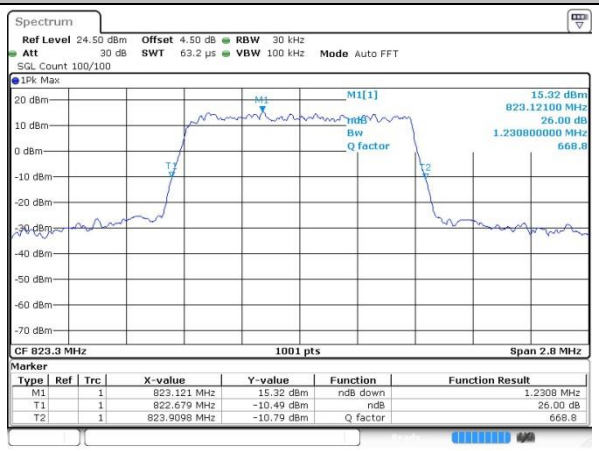
Middle Channel / 1.4MHz / QPSK



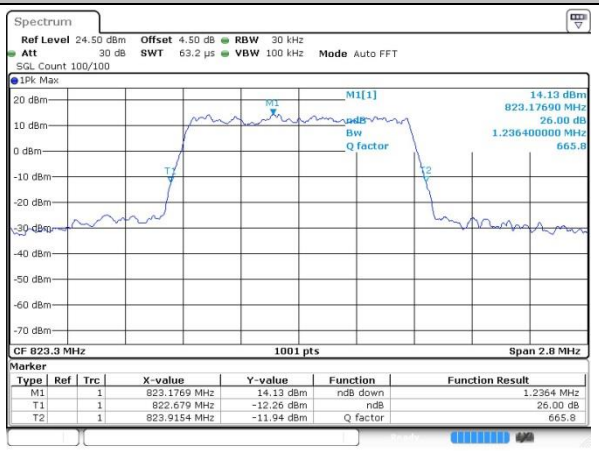
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

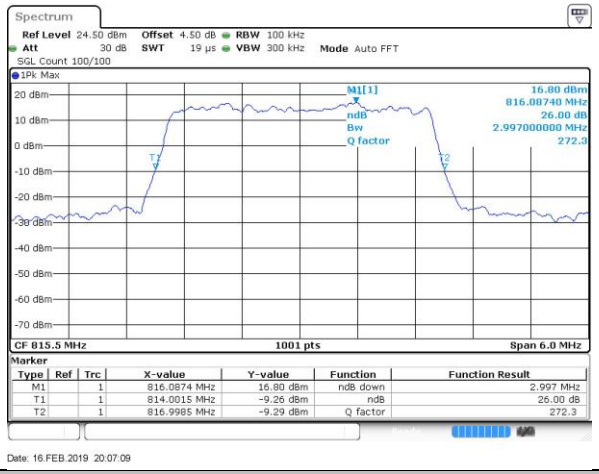


Highest Channel / 1.4MHz / 16QAM

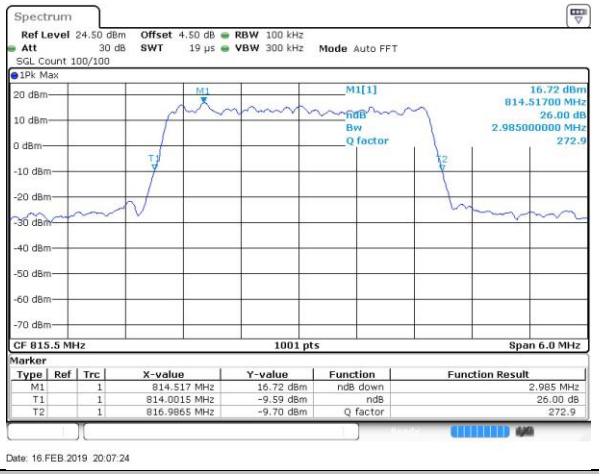


LTE Band 26

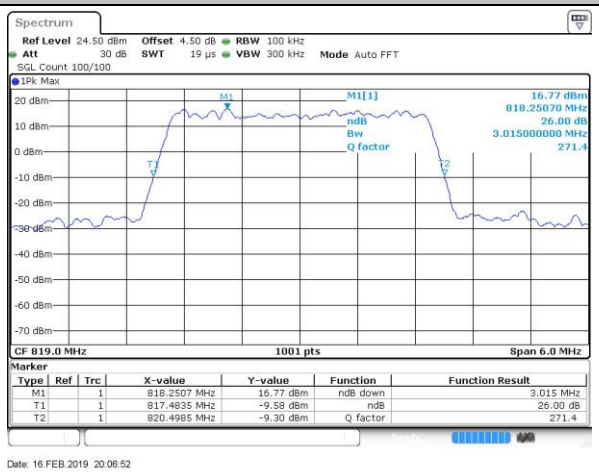
Lowest Channel / 3MHz / QPSK



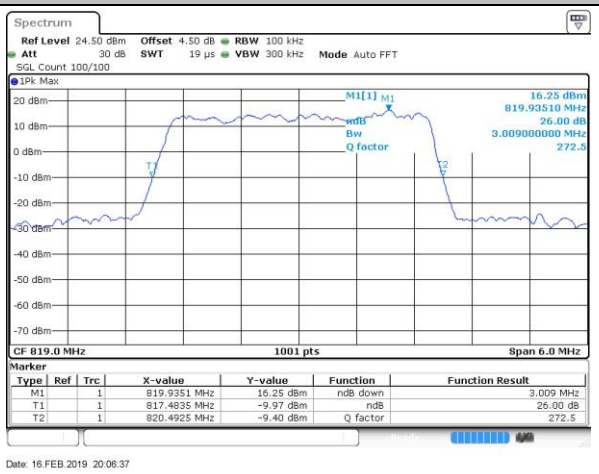
Lowest Channel / 3MHz / 16QAM



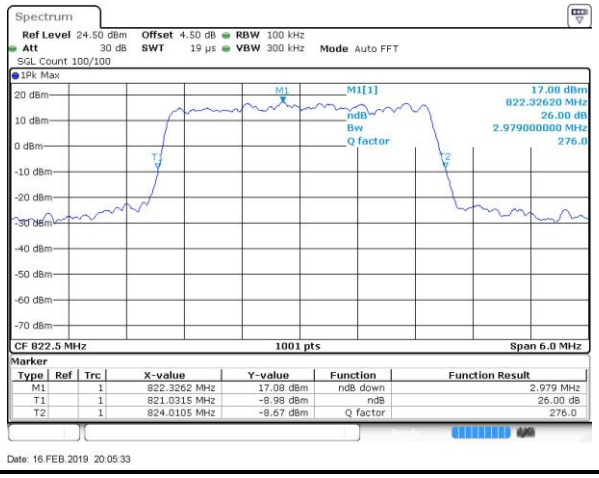
Middle Channel / 3MHz / QPSK



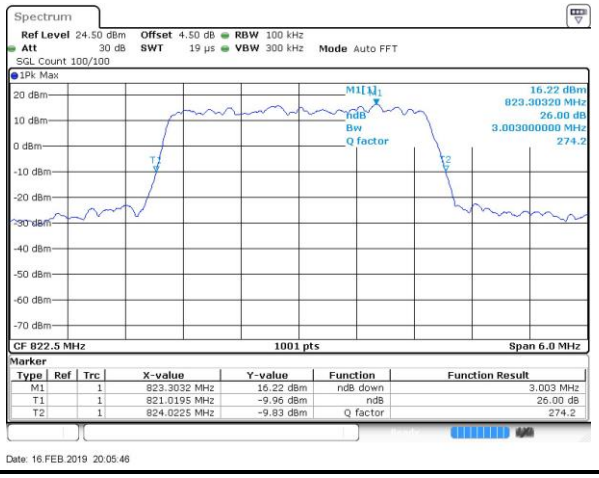
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

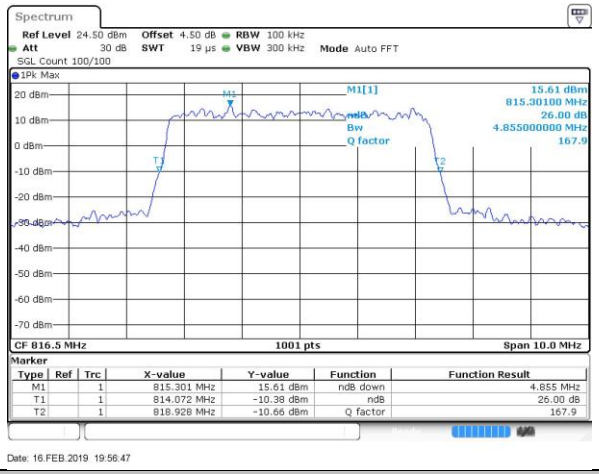


Highest Channel / 3MHz / 16QAM

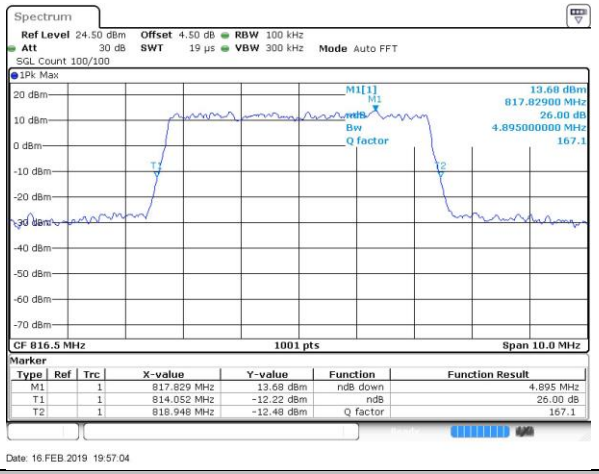


LTE Band 26

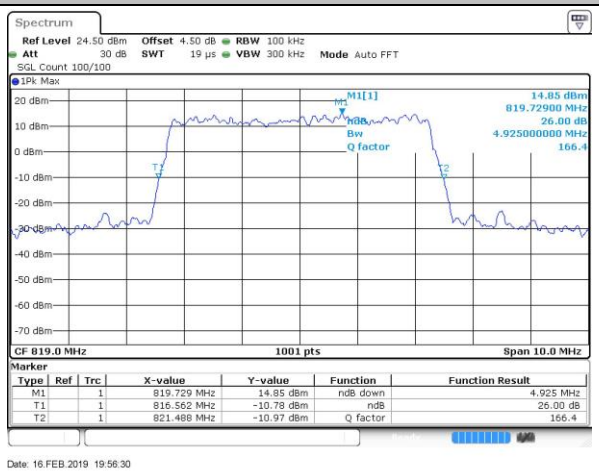
Lowest Channel / 5MHz / QPSK



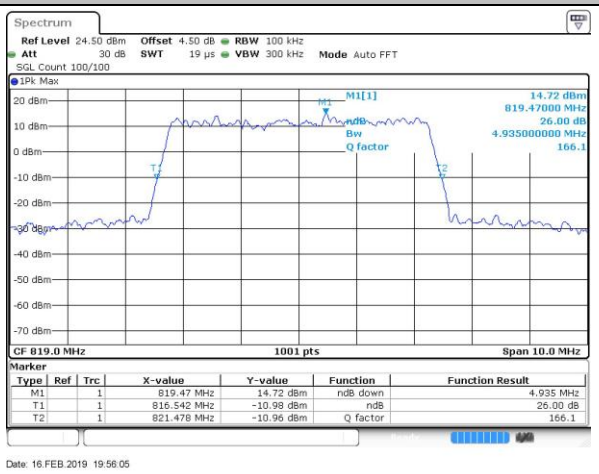
Lowest Channel / 5MHz / 16QAM



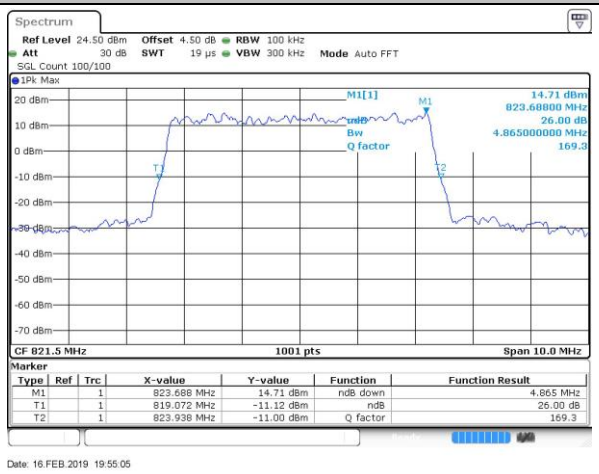
Middle Channel / 5MHz / QPSK



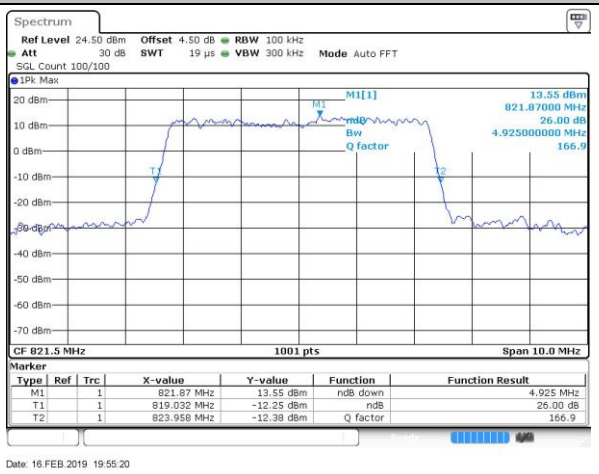
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

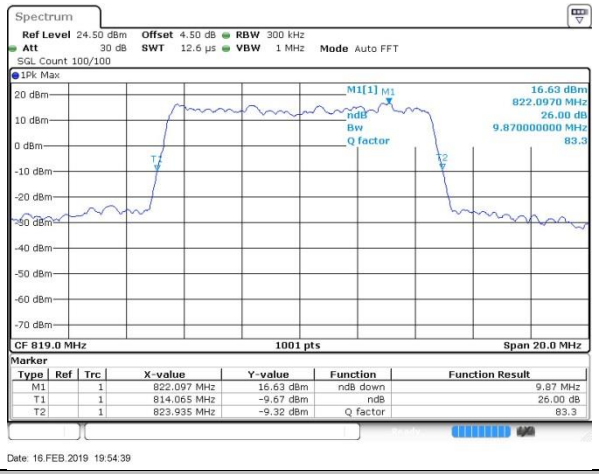


Highest Channel / 5MHz / 16QAM

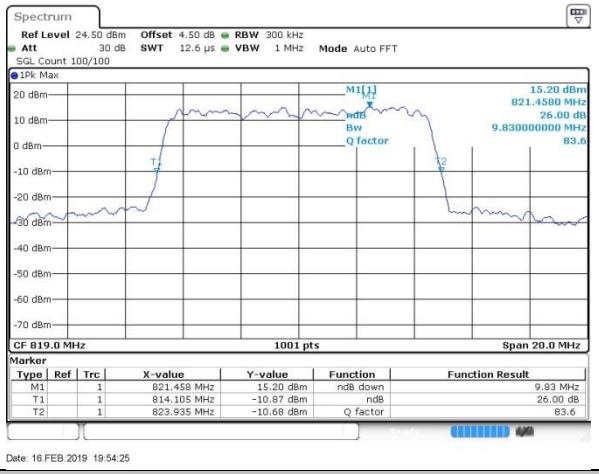


LTE Band 26

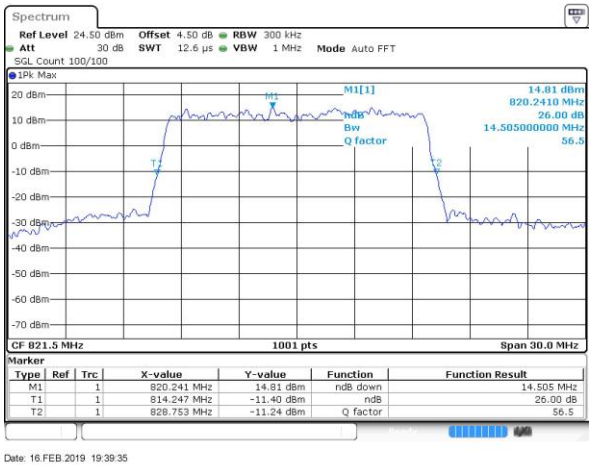
Middle Channel / 10MHz / QPSK



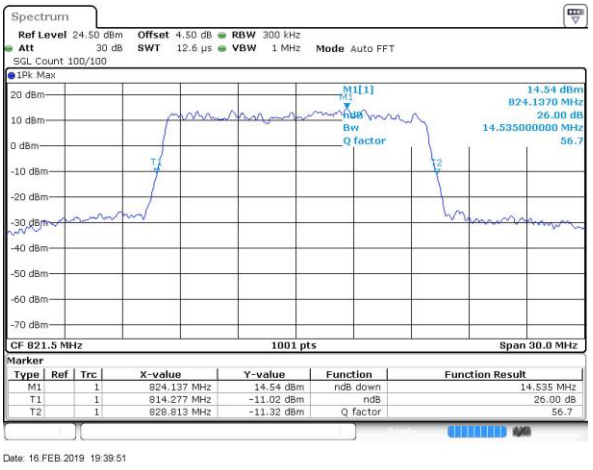
Middle Channel / 10MHz / 16QAM



Lowest Channel / 15MHz / QPSK

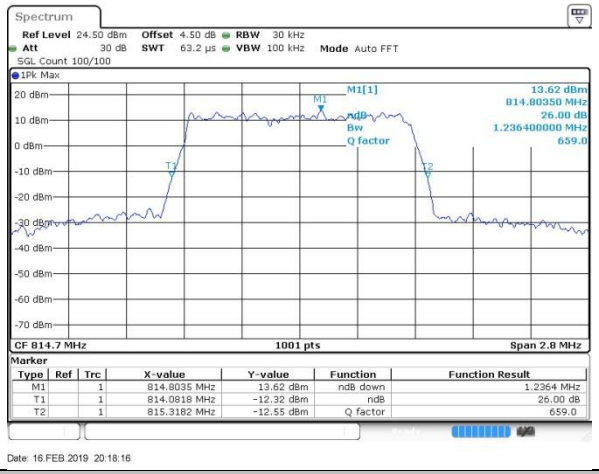


Lowest Channel / 15MHz / 16QAM

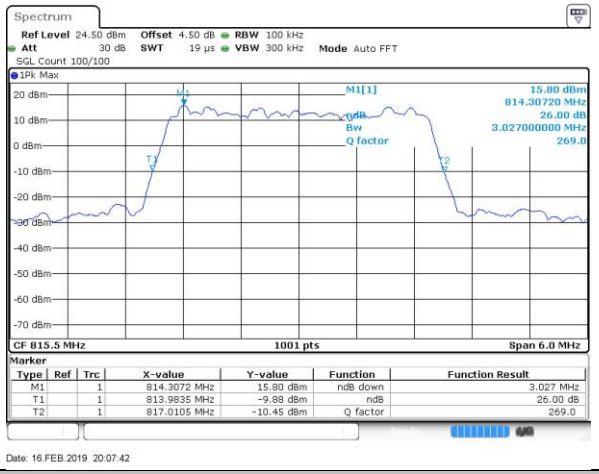


LTE Band 26

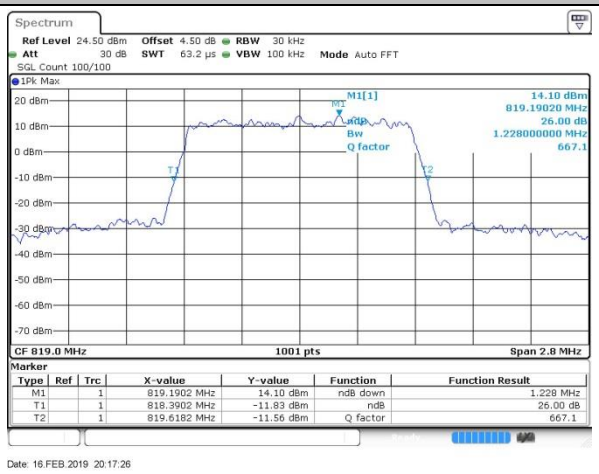
Lowest Channel / 1.4MHz / 64QAM



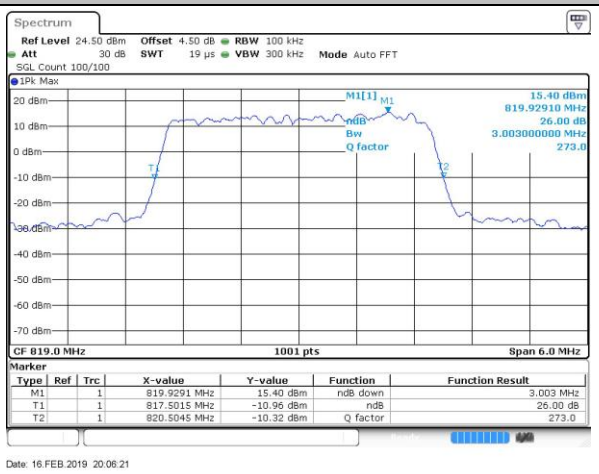
Lowest Channel / 3MHz / 64QAM



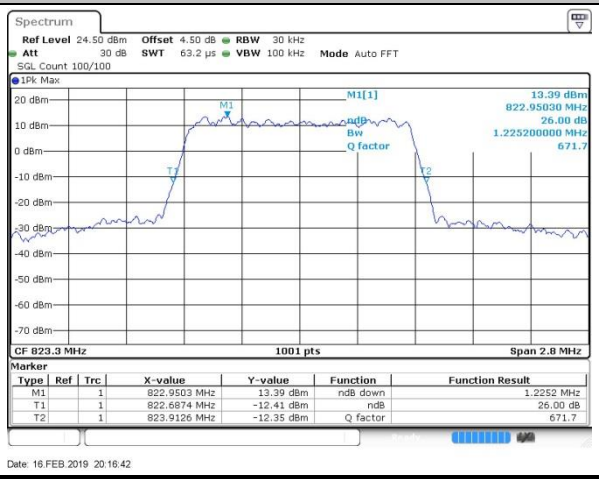
Middle Channel / 1.4MHz / 64QAM



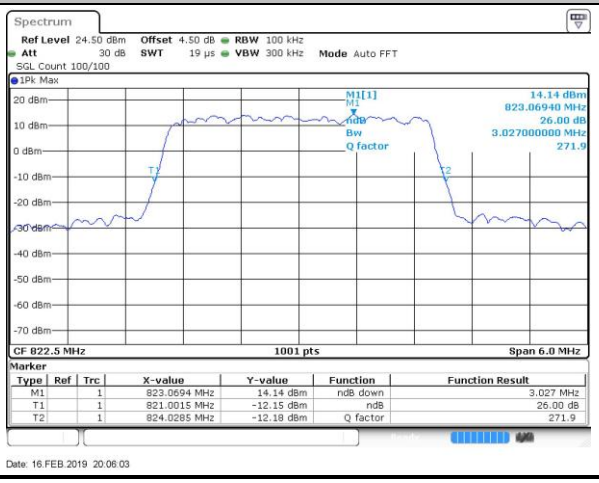
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

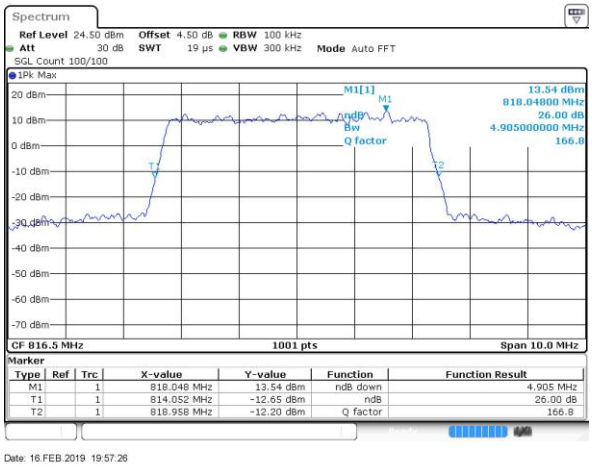


Highest Channel / 3MHz / 64QAM

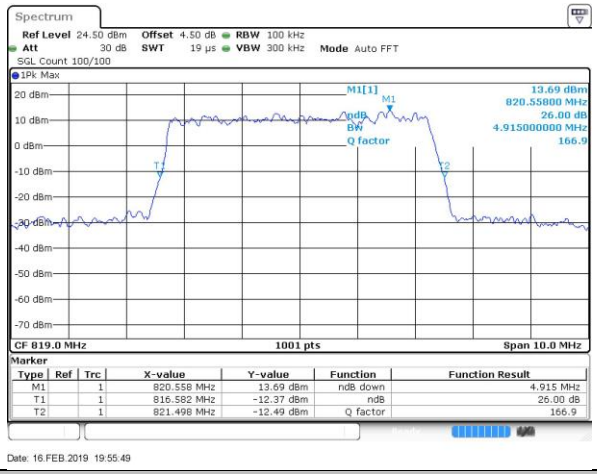


LTE Band 26

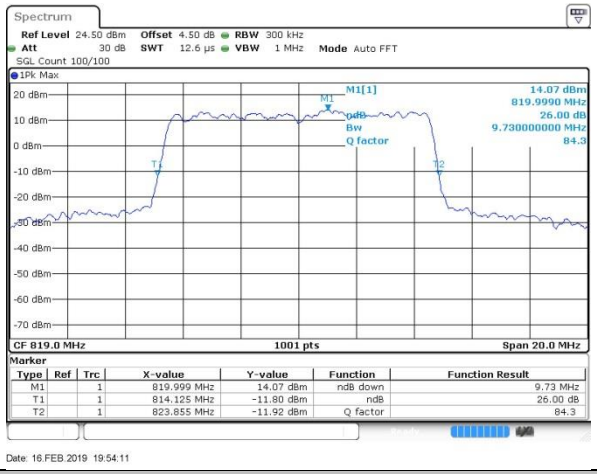
Lowest Channel / 5MHz / 64QAM



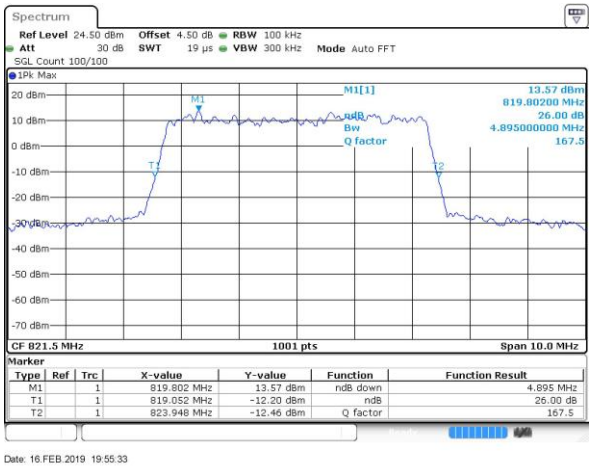
Middle Channel / 5MHz / 64QAM



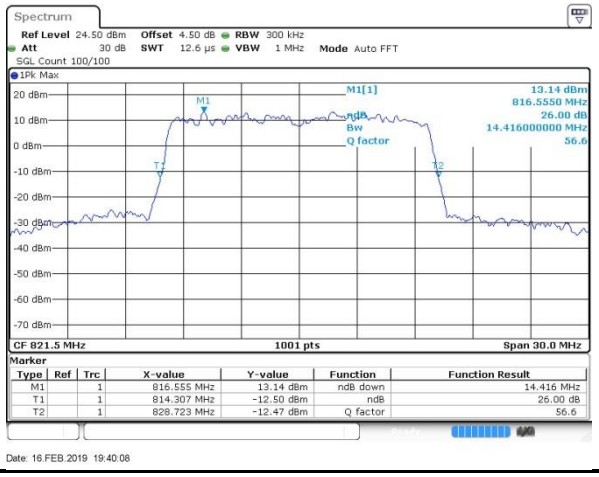
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



LTE Band 26
Lowest Channel / 15MHz / 64QAM

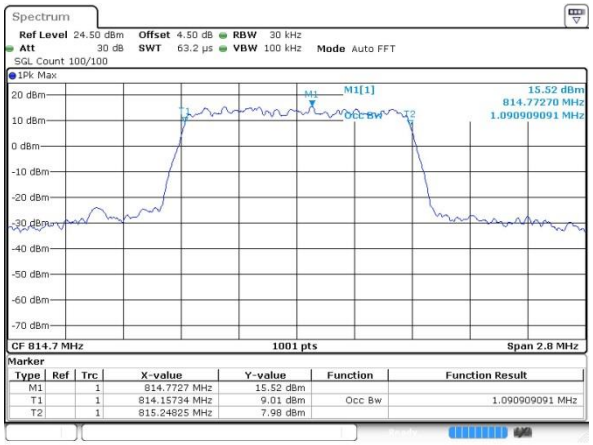


Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.72	4.50	4.49	-	-	13.46	13.37	-	-
Middle CH	1.09	1.09	2.72	2.72	4.51	4.48	9.05	9.05	-	-	-	-
Highest CH	1.09	1.09	2.73	2.70	4.49	4.49	-	-	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09		2.75		4.50		-		13.43		-	
Middle CH	1.09		2.73		4.48		9.09		-		-	
Highest CH	1.09		2.72		4.50		-		-		-	

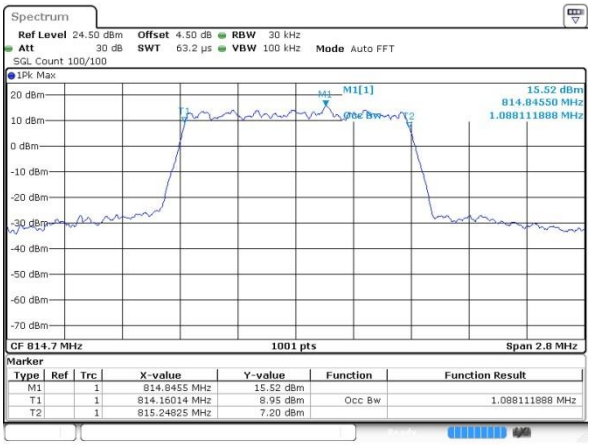
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



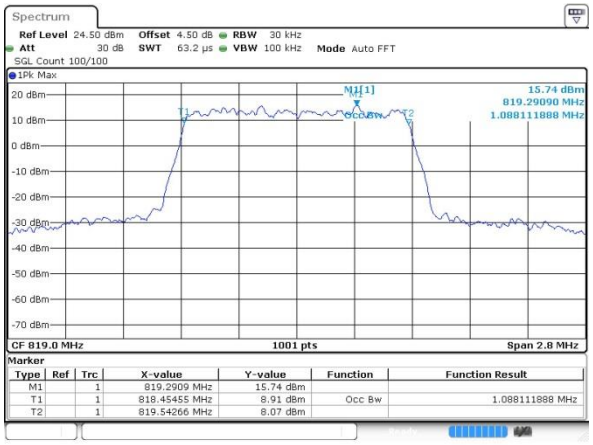
Date: 16.FEB.2019 19:02:40

Lowest Channel / 1.4MHz / 16QAM



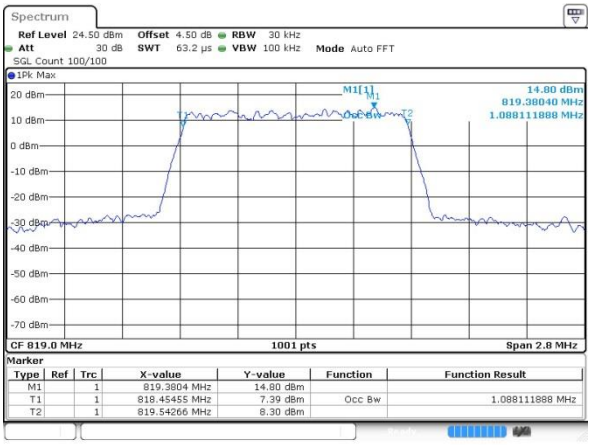
Date: 16.FEB.2019 19:02:28

Middle Channel / 1.4MHz / QPSK



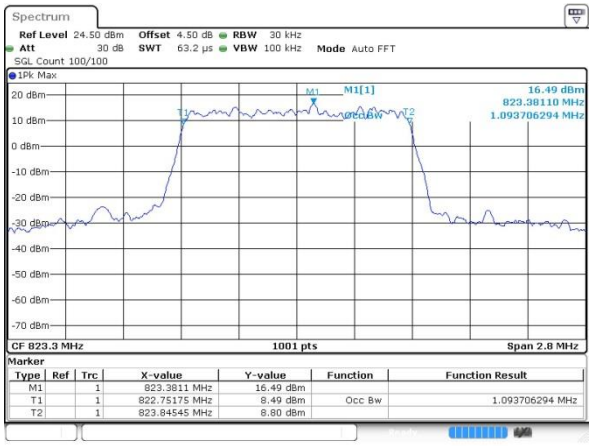
Date: 16.FEB.2019 19:03:15

Middle Channel / 1.4MHz / 16QAM



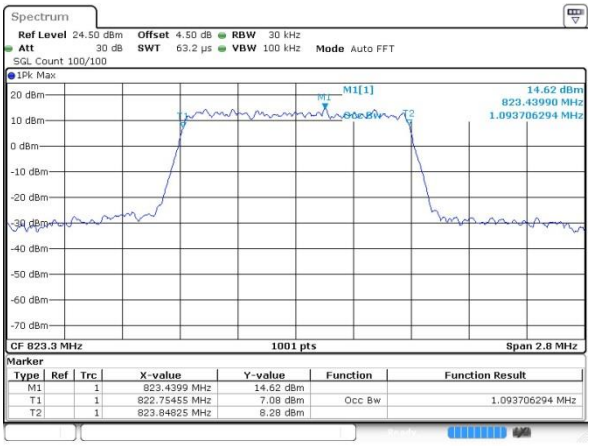
Date: 16.FEB.2019 19:03:04

Highest Channel / 1.4MHz / QPSK



Date: 16.FEB.2019 19:03:51

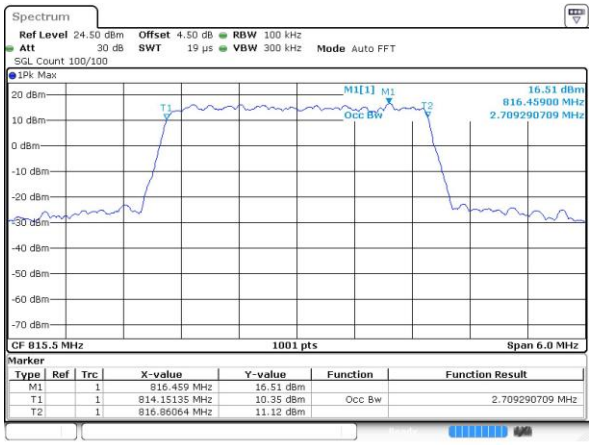
Highest Channel / 1.4MHz / 16QAM



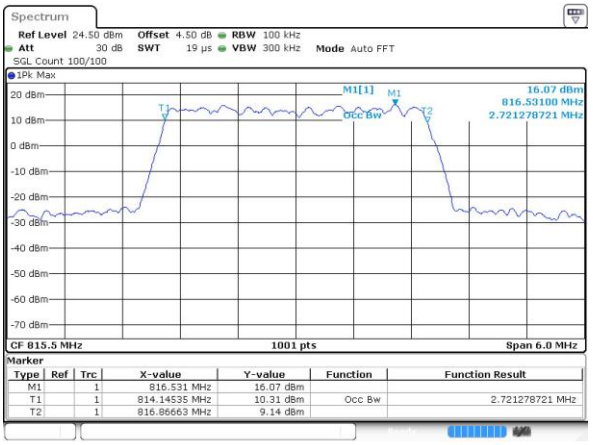
Date: 16.FEB.2019 19:03:39

LTE Band 26

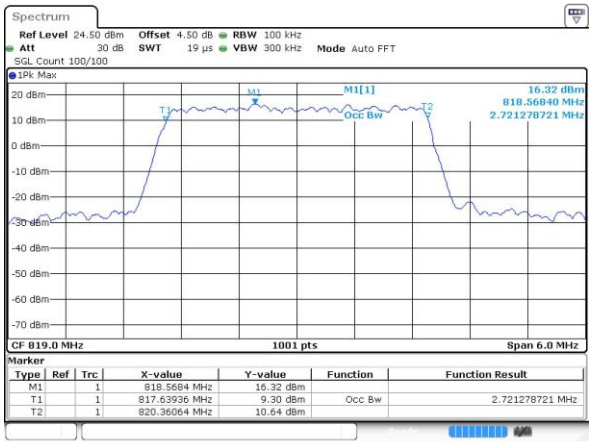
Lowest Channel / 3MHz / QPSK



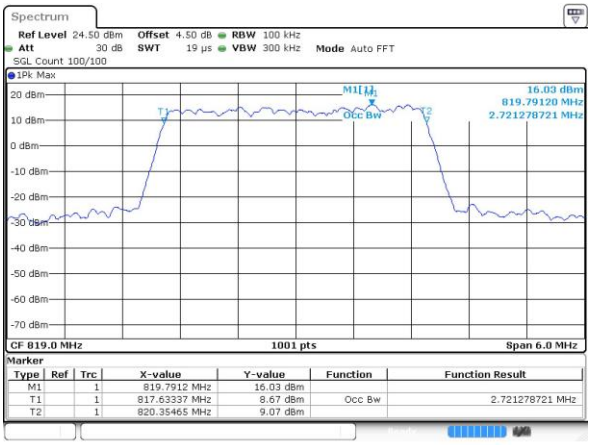
Lowest Channel / 3MHz / 16QAM



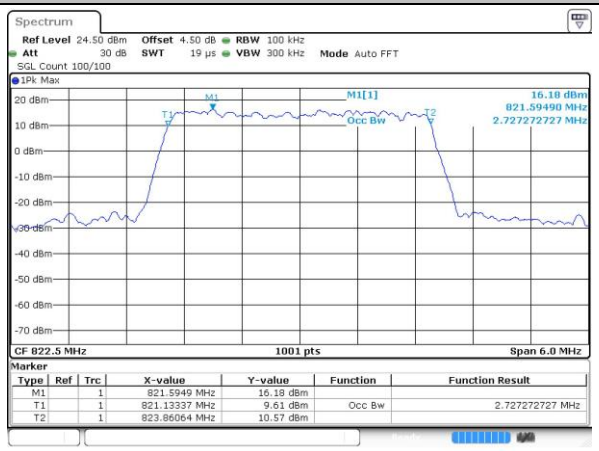
Middle Channel / 3MHz / QPSK



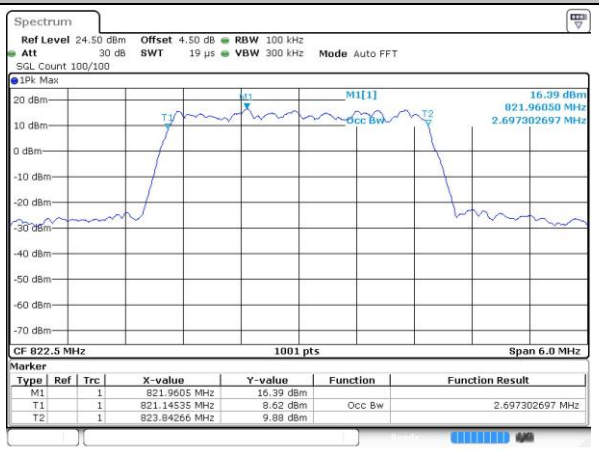
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

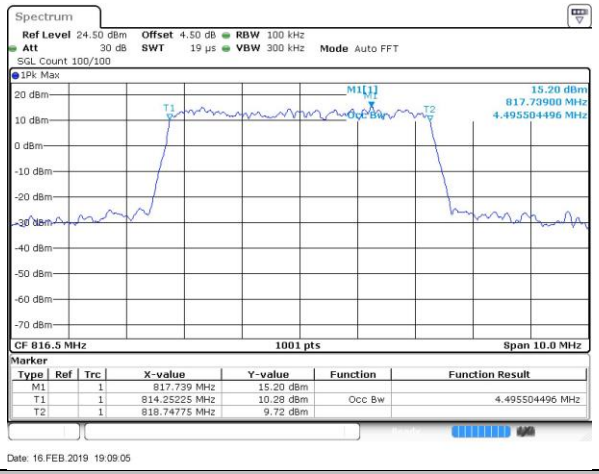


Highest Channel / 3MHz / 16QAM

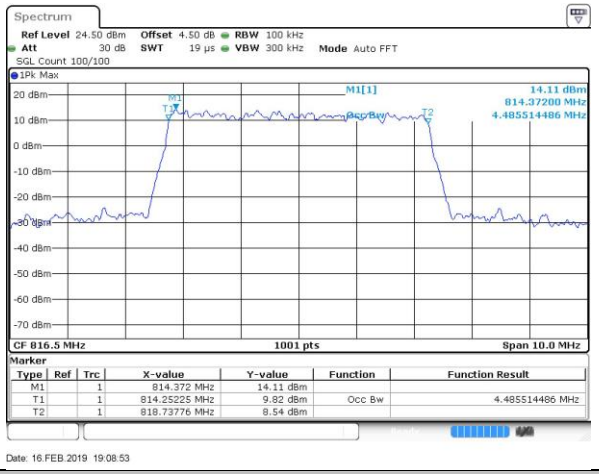


LTE Band 26

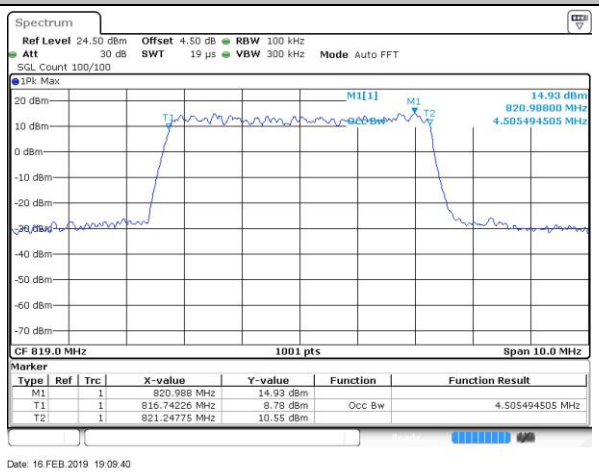
Lowest Channel / 5MHz / QPSK



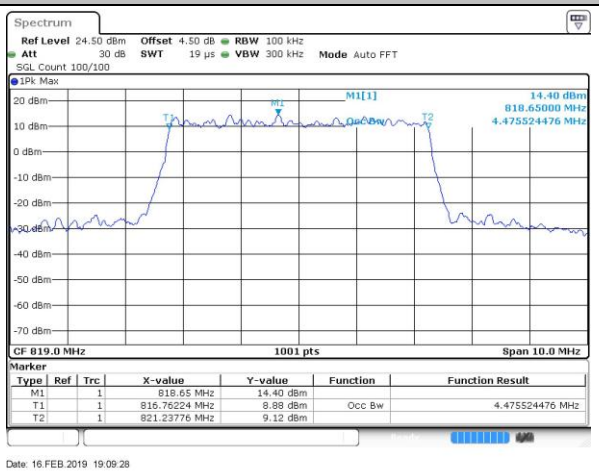
Lowest Channel / 5MHz / 16QAM



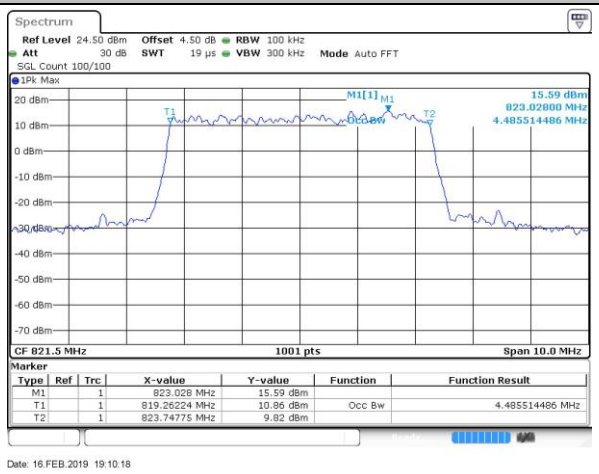
Middle Channel / 5MHz / QPSK



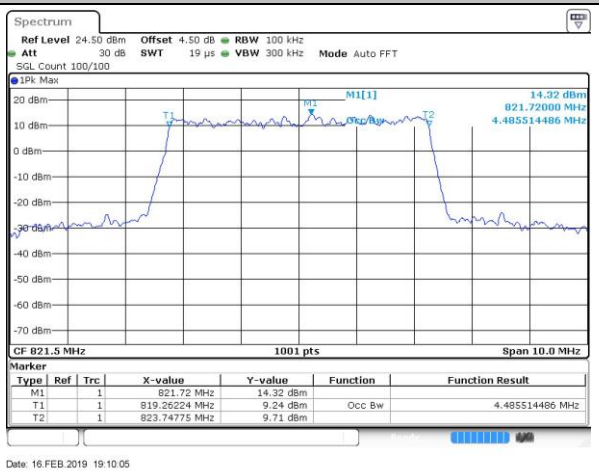
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

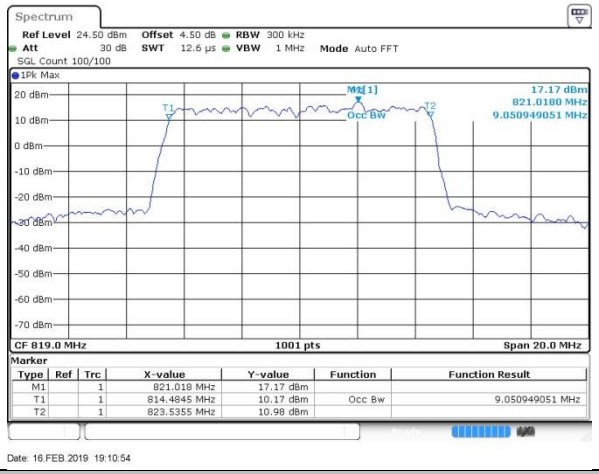


Highest Channel / 5MHz / 16QAM

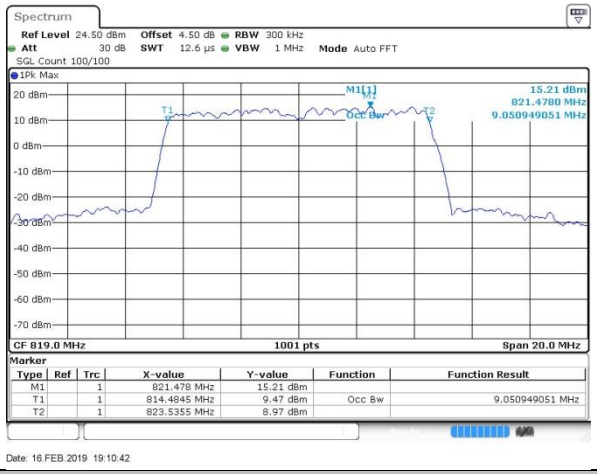


LTE Band 26

Middle Channel / 10MHz / QPSK

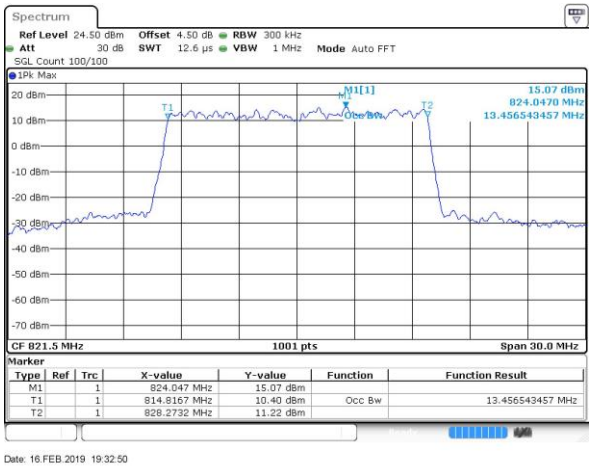


Middle Channel / 10MHz / 16QAM

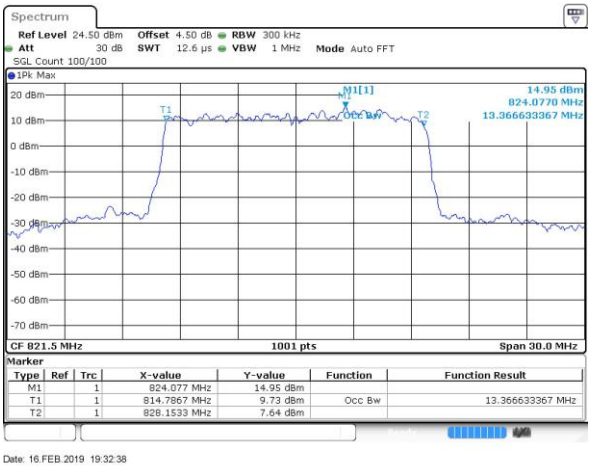


LTE Band 26

Lowest Channel / 15MHz / QPSK

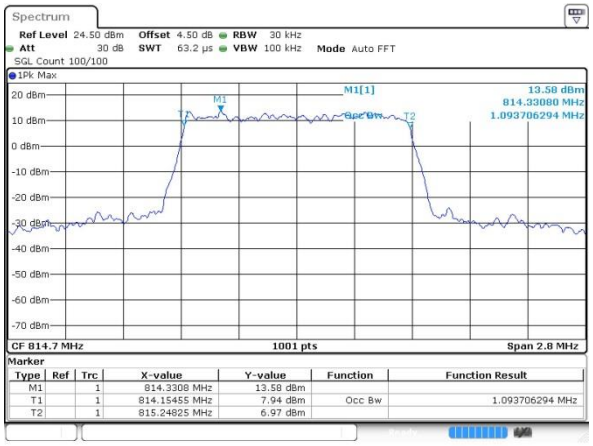


Lowest Channel / 15MHz / 16QAM

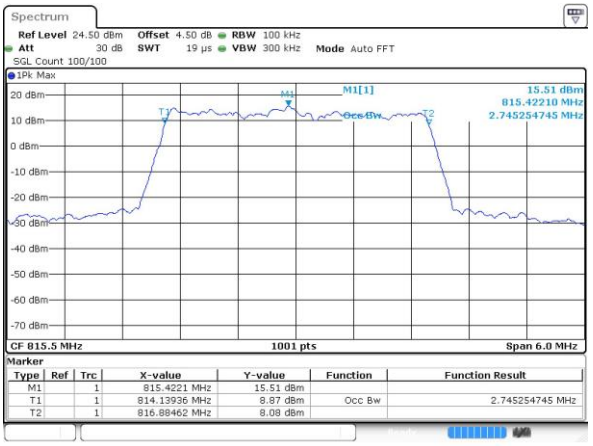


LTE Band 26

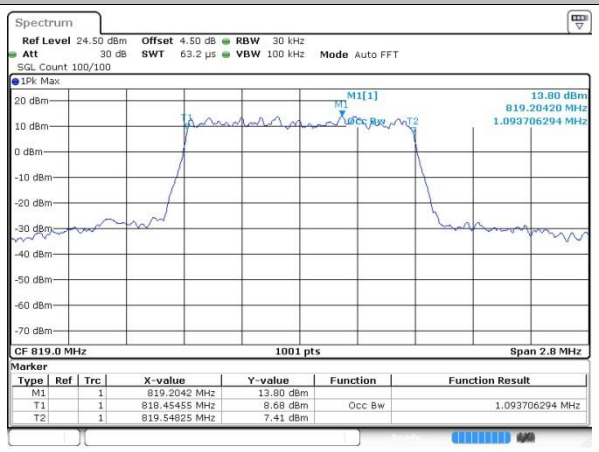
Lowest Channel / 1.4MHz / 64QAM



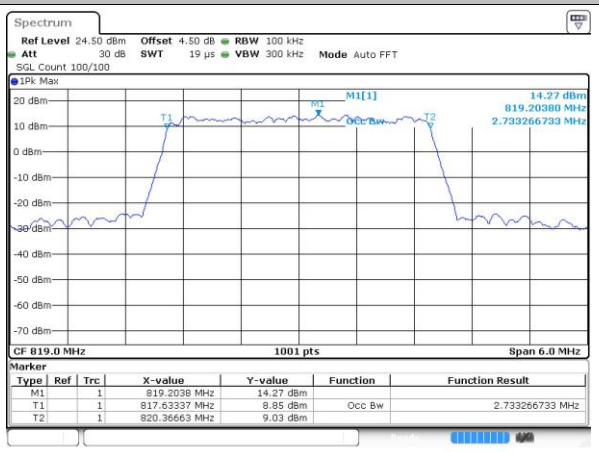
Lowest Channel / 3MHz / 64QAM



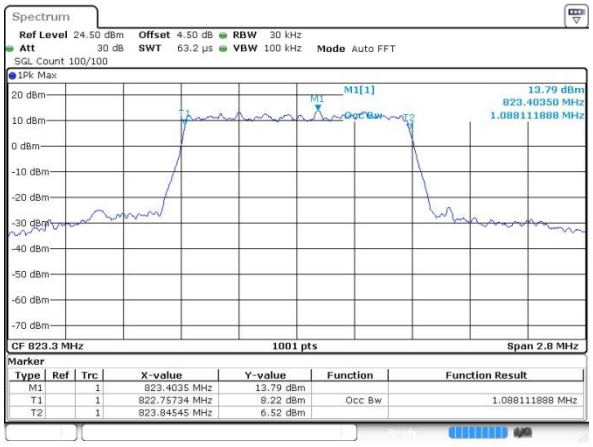
Middle Channel / 1.4MHz / 64QAM



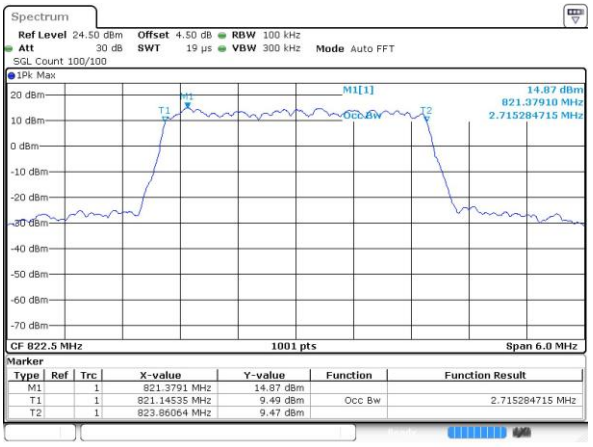
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

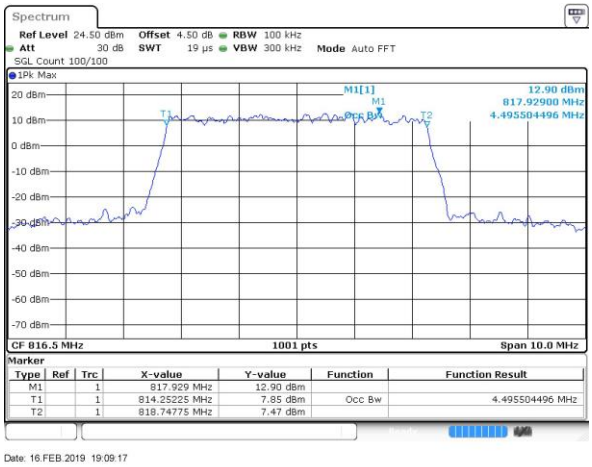


Highest Channel / 3MHz / 64QAM

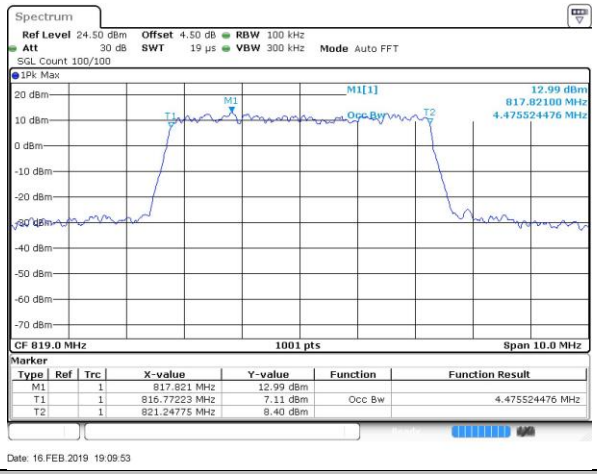


LTE Band 26

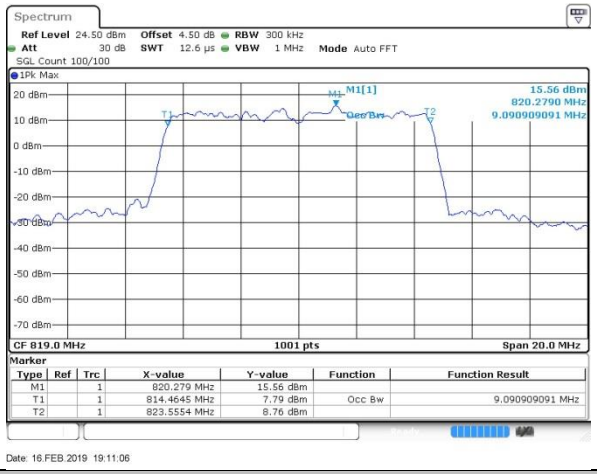
Lowest Channel / 5MHz / 64QAM



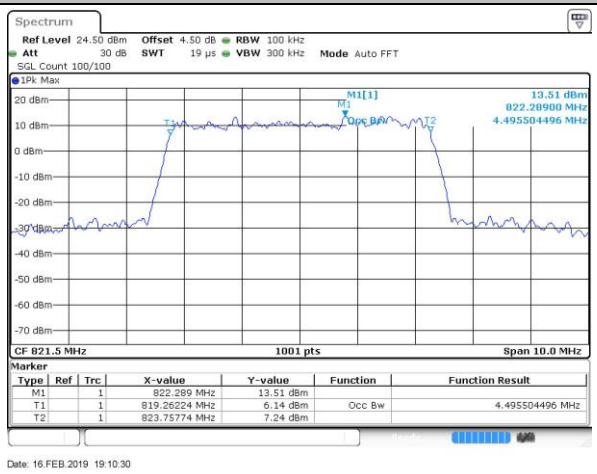
Middle Channel / 5MHz / 64QAM



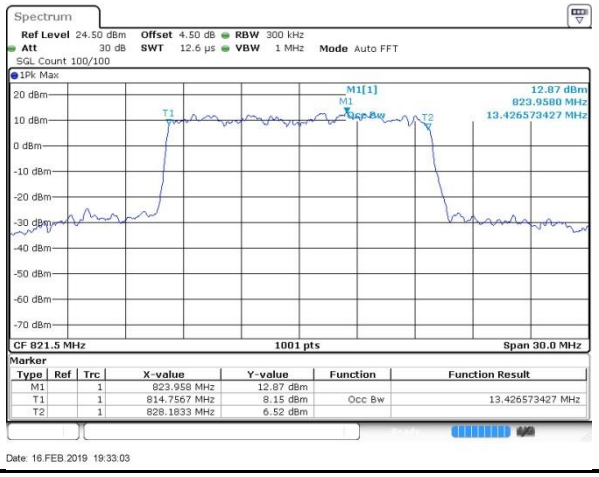
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



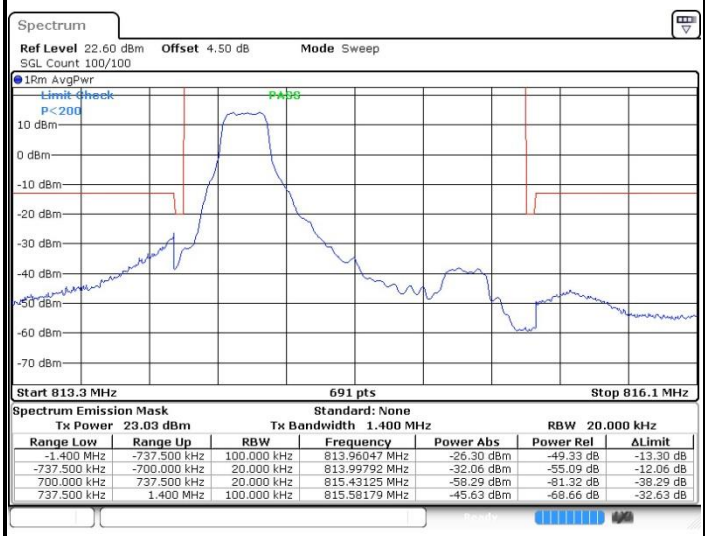
LTE Band 26
Middle Channel / 15MHz / 64QAM



Conducted Band Edge

LTE Band 26 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



Spectrum Emission Mask Standard: None
Tx Power 23.03 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-26.30 dBm	-49.33 dB	-13.30 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.99792 MHz	-32.06 dBm	-55.09 dB	-12.06 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.43125 MHz	-58.29 dBm	-81.32 dB	-38.29 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.58179 MHz	-45.63 dBm	-68.66 dB	-32.63 dB

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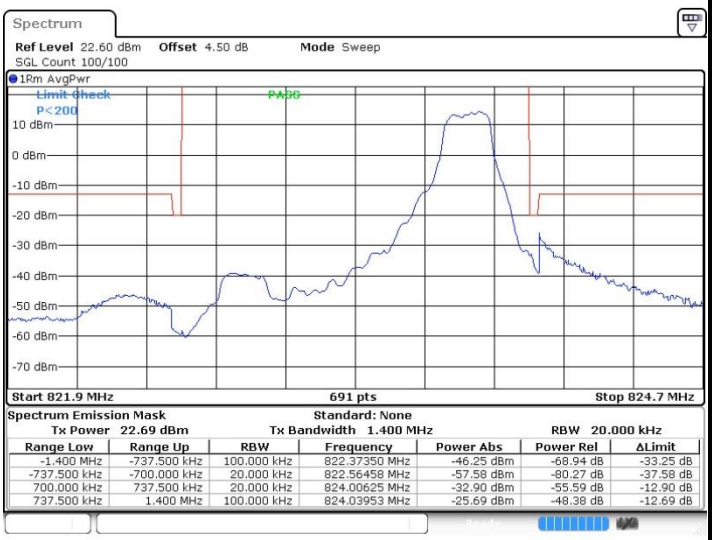
Highest Band Edge / 1RB

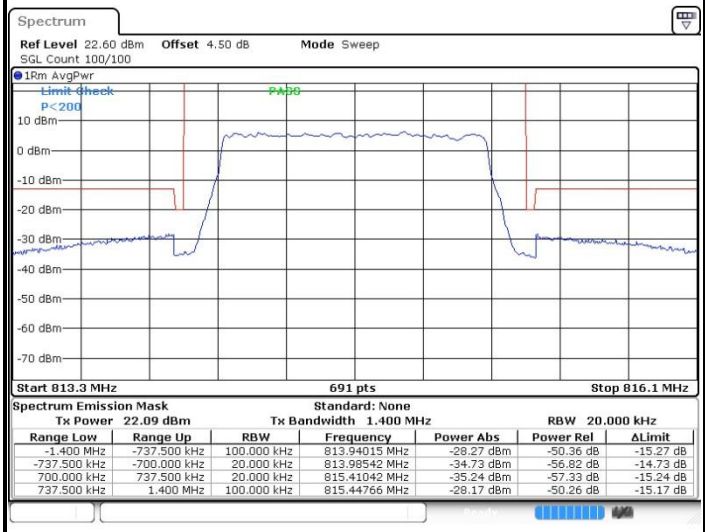


Spectrum Emission Mask Standard: None
Tx Power 22.69 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.37350 MHz	-46.25 dBm	-68.94 dB	-33.25 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.56458 MHz	-57.58 dBm	-80.27 dB	-37.58 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.00625 MHz	-32.90 dBm	-55.59 dB	-12.90 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-25.69 dBm	-48.38 dB	-12.69 dB

Date: 3.FEB.2019 16:56:31

Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 22.09 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.94015 MHz	-28.27 dBm	-50.36 dB	-15.27 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.98542 MHz	-34.73 dBm	-56.82 dB	-14.73 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.41042 MHz	-35.24 dBm	-57.33 dB	-15.24 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.44766 MHz	-28.17 dBm	-50.26 dB	-15.17 dB

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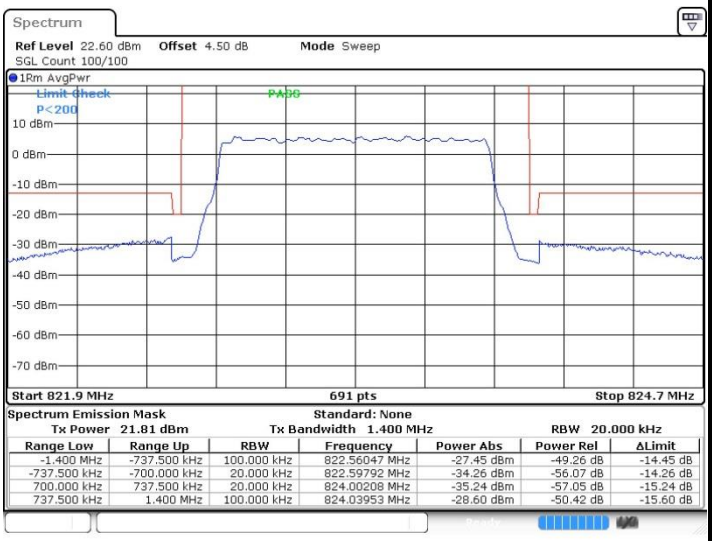
Highest Band Edge / Full RB



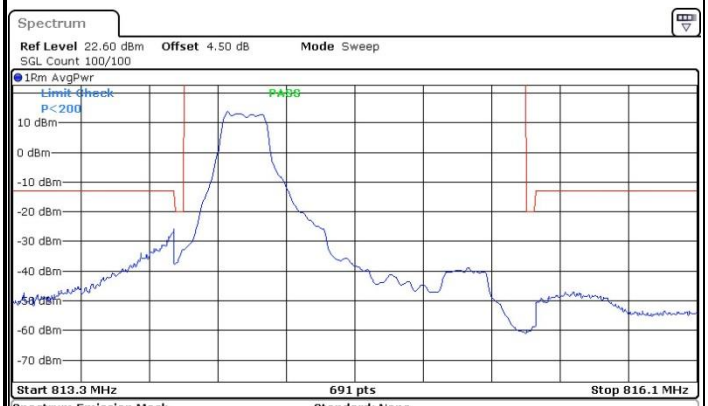
Spectrum Emission Mask Standard: None
Tx Power 21.81 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.56047 MHz	-27.45 dBm	-49.26 dB	-14.45 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.59792 MHz	-34.26 dBm	-56.07 dB	-14.26 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.00208 MHz	-35.24 dBm	-57.05 dB	-15.24 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-28.60 dBm	-50.42 dB	-15.60 dB

Date: 3.FEB.2019 16:53:00

LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 22.09 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-25.84 dBm	-47.93 dB	-12.84 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.99792 MHz	-32.79 dBm	-54.88 dB	-12.79 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.42708 MHz	-58.68 dBm	-80.77 dB	-38.68 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.59398 MHz	-47.16 dBm	-69.24 dB	-34.16 dB

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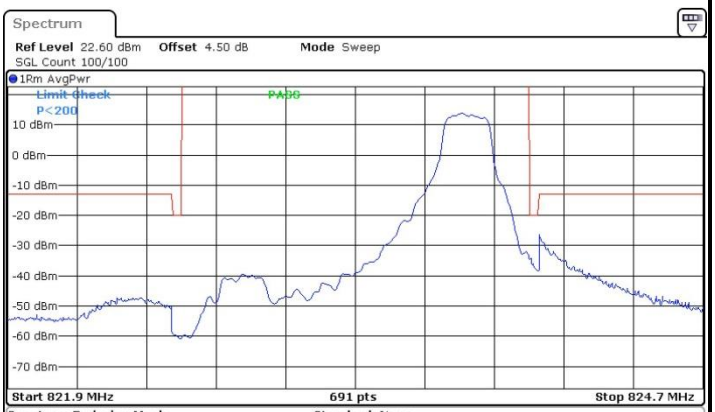
Highest Band Edge / 1 RB

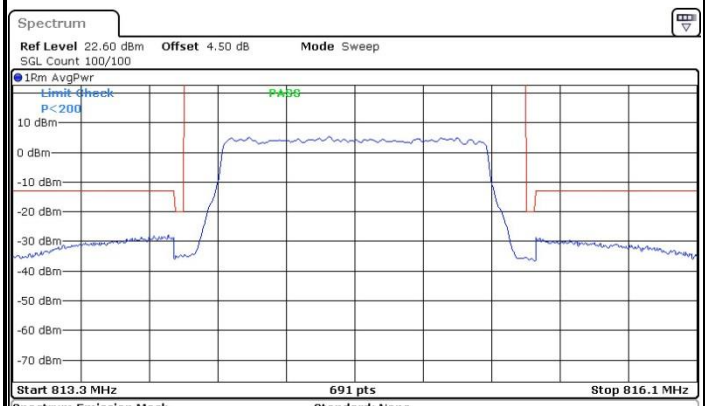


Spectrum Emission Mask Standard: None
Tx Power 22.24 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.40602 MHz	-47.29 dBm	-69.53 dB	-34.29 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.56458 MHz	-58.75 dBm	-80.99 dB	-38.75 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.00625 MHz	-34.37 dBm	-56.61 dB	-14.37 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-26.45 dBm	-48.69 dB	-13.45 dB

Date: 3.FEB.2019 16:55:20

Lowest Band Edge / Full RB

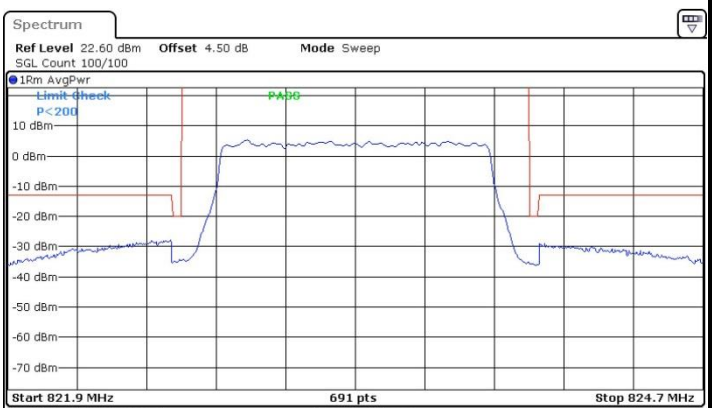


Spectrum Emission Mask Standard: None
Tx Power 21.03 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.94015 MHz	-27.88 dBm	-48.91 dB	-14.88 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.98958 MHz	-34.67 dBm	-55.70 dB	-14.67 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.40208 MHz	-35.53 dBm	-56.55 dB	-15.53 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.43953 MHz	-28.82 dBm	-49.85 dB	-15.82 dB

Date: 3.FEB.2019 16:48:19

Highest Band Edge / Full RB



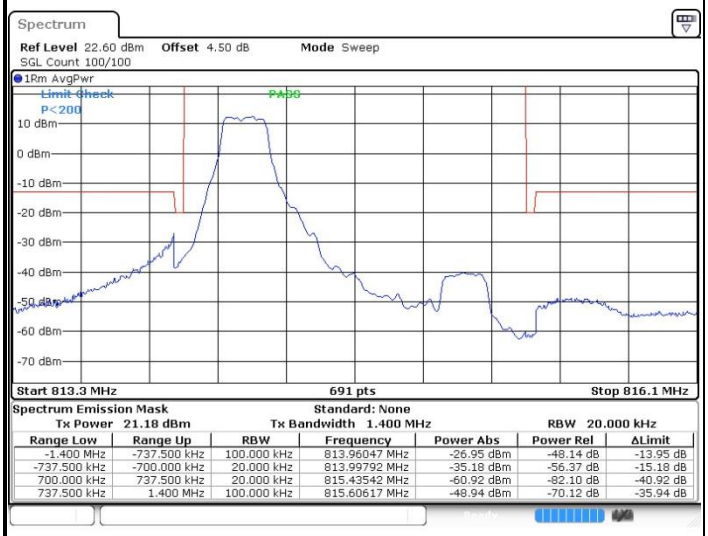
Spectrum Emission Mask Standard: None
Tx Power 20.97 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.55640 MHz	-27.79 dBm	-48.76 dB	-14.79 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.59375 MHz	-34.28 dBm	-55.25 dB	-14.28 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.01042 MHz	-35.58 dBm	-56.56 dB	-15.58 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-29.08 dBm	-50.06 dB	-16.08 dB

Date: 3.FEB.2019 16:51:50

LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Spectrum Emission Mask — Standard: None
Tx Power 21.18 dBm — Tx Bandwidth 1.400 MHz — RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-26.95 dBm	-48.14 dB	-13.95 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.99792 MHz	-35.18 dBm	-56.37 dB	-15.18 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.43542 MHz	-60.92 dBm	-82.10 dB	-40.92 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.60617 MHz	-48.94 dBm	-70.12 dB	-35.94 dB

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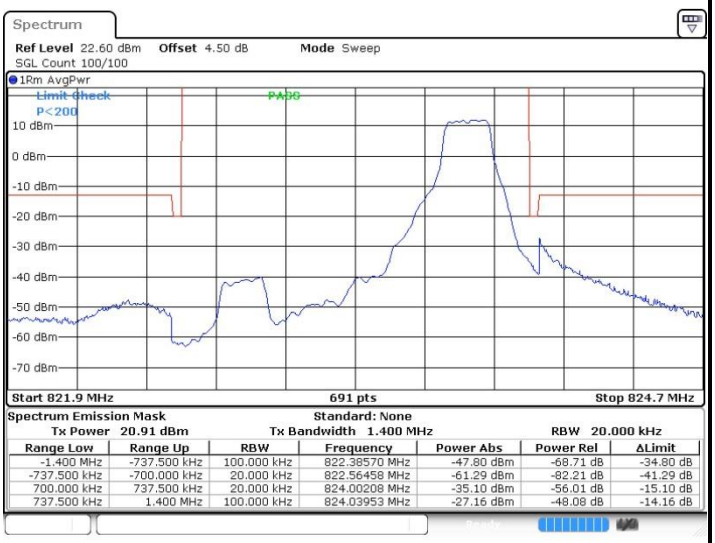
Highest Band Edge / 1 RB



Spectrum Emission Mask — Standard: None
Tx Power 20.91 dBm — Tx Bandwidth 1.400 MHz — RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.38570 MHz	-47.80 dBm	-68.71 dB	-34.80 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.56458 MHz	-61.29 dBm	-82.21 dB	-41.29 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.00208 MHz	-35.10 dBm	-56.01 dB	-15.10 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-27.16 dBm	-48.08 dB	-14.16 dB

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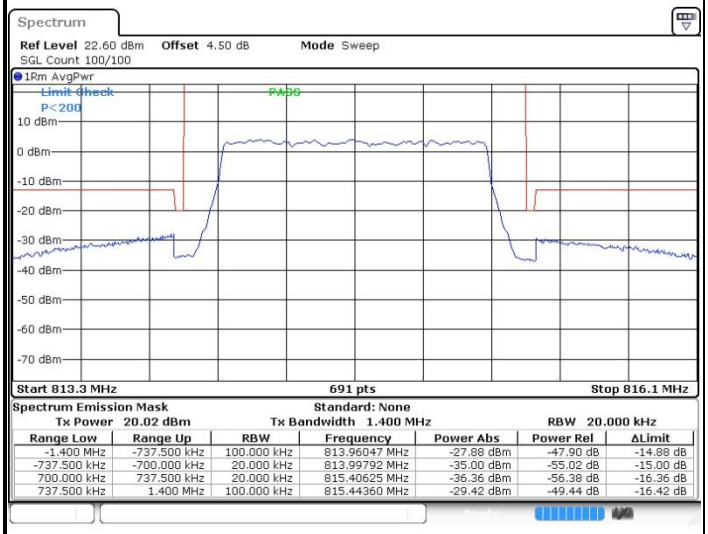
Lowest Band Edge / Full RB



Spectrum Emission Mask — Standard: None
Tx Power 20.02 dBm — Tx Bandwidth 1.400 MHz — RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-27.88 dBm	-47.90 dB	-14.88 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.99792 MHz	-35.00 dBm	-55.02 dB	-15.00 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.40625 MHz	-36.36 dBm	-56.38 dB	-16.36 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.44360 MHz	-29.42 dBm	-49.44 dB	-16.42 dB

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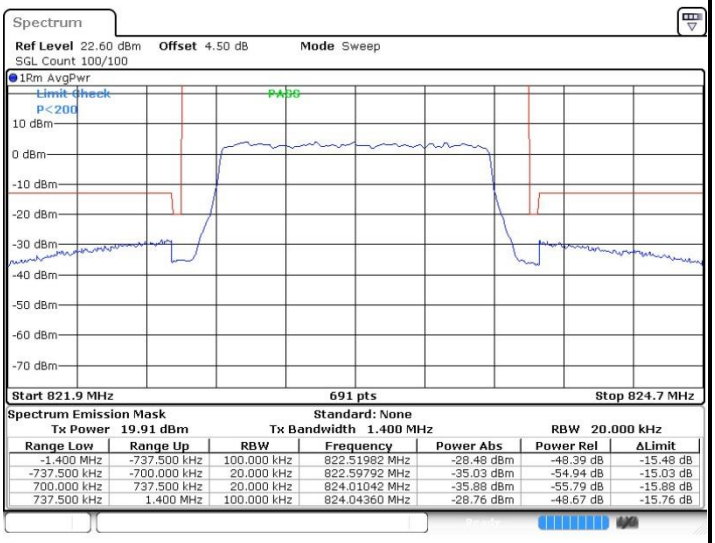
Highest Band Edge / Full RB



Spectrum Emission Mask — Standard: None
Tx Power 19.91 dBm — Tx Bandwidth 1.400 MHz — RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.51982 MHz	-28.48 dBm	-48.39 dB	-15.48 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.59792 MHz	-35.03 dBm	-54.94 dB	-15.03 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.01042 MHz	-35.88 dBm	-55.79 dB	-15.88 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.04360 MHz	-28.76 dBm	-48.67 dB	-15.76 dB

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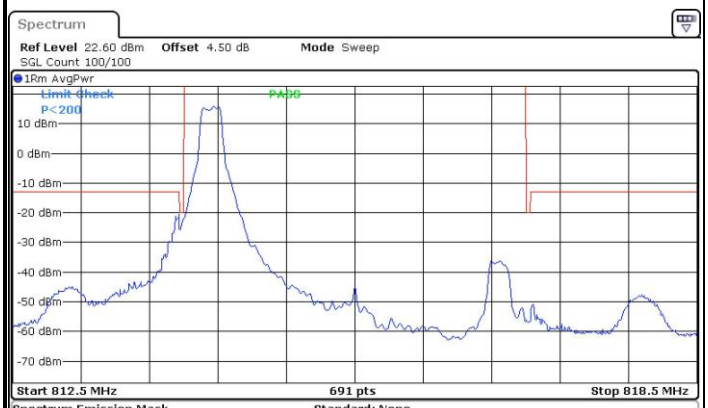
LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



Spectrum Emission Mask Standard: None
Tx Power 22.55 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-20.67 dBm	-43.22 dB	-7.67 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-22.04 dBm	-44.58 dB	-2.04 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-56.18 dBm	-78.72 dB	-36.18 dB
1.538 MHz	3.000 MHz	100.000 kHz	818.00815 MHz	-47.57 dBm	-70.12 dB	-34.57 dB

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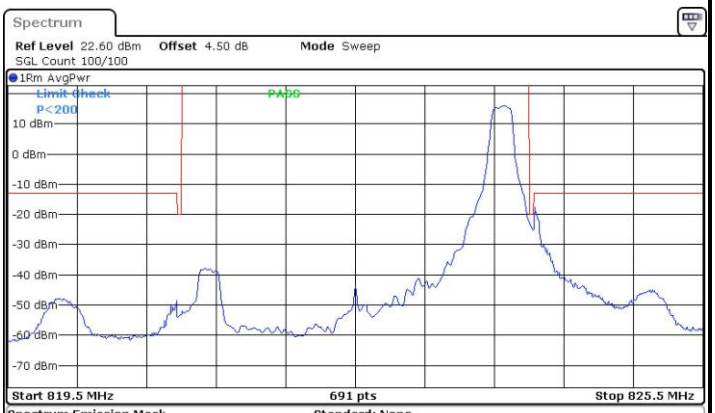
Highest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 22.67 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	819.93962 MHz	-47.84 dBm	-70.51 dB	-34.84 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-53.08 dBm	-75.75 dB	-33.08 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-22.56 dBm	-45.23 dB	-2.56 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.05056 MHz	-17.57 dBm	-40.23 dB	-4.57 dB

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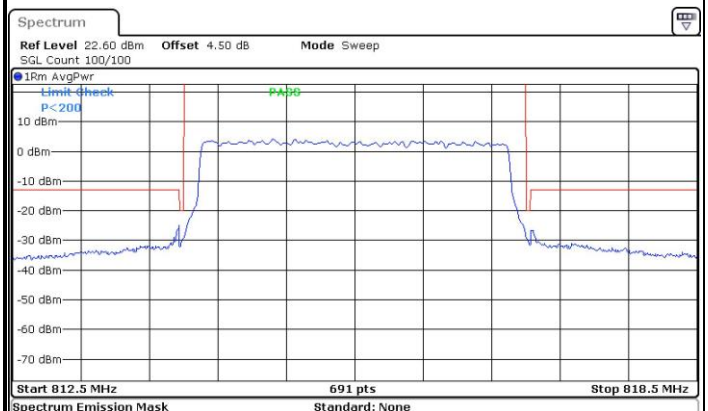
Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.97 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-24.82 dBm	-46.79 dB	-11.82 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-29.40 dBm	-51.37 dB	-9.40 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-28.89 dBm	-50.87 dB	-8.89 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.05056 MHz	-26.55 dBm	-48.52 dB	-13.55 dB

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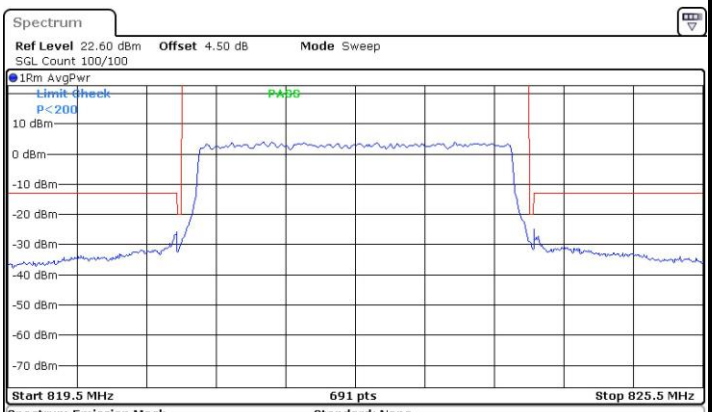
Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 22.04 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.95815 MHz	-25.91 dBm	-47.95 dB	-12.91 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-29.41 dBm	-51.45 dB	-9.41 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-29.06 dBm	-51.11 dB	-9.06 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-24.79 dBm	-46.83 dB	-11.79 dB

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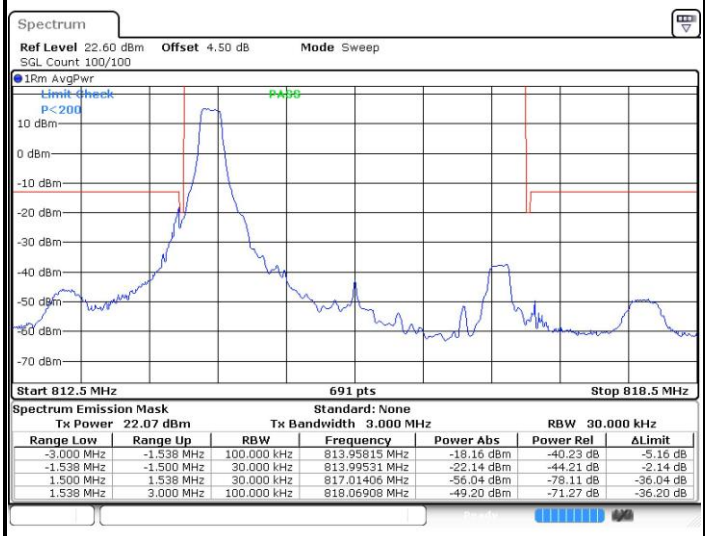
LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 22.07 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-18.16 dBm	-40.23 dB	-5.16 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-22.14 dBm	-44.21 dB	-2.14 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.01406 MHz	-56.04 dBm	-78.11 dB	-36.04 dB
1.538 MHz	3.000 MHz	100.000 kHz	818.06908 MHz	-49.20 dBm	-71.27 dB	-36.20 dB

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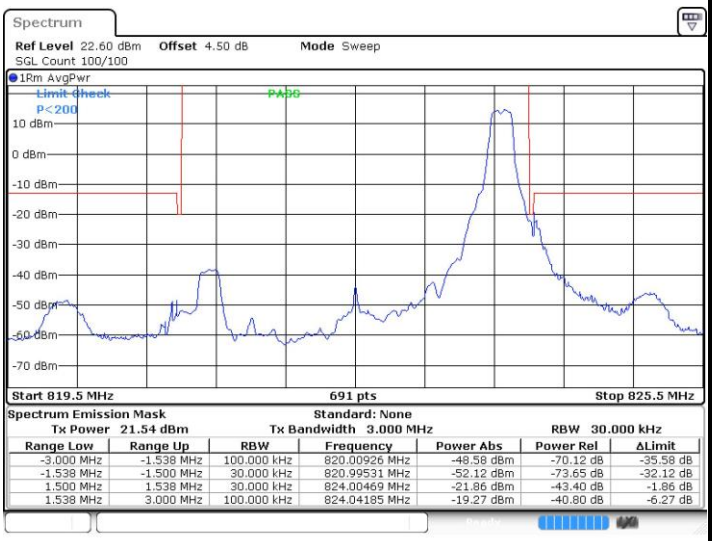
Highest Band Edge /1 RB



Spectrum Emission Mask Standard: None
Tx Power 21.54 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.00926 MHz	-48.58 dBm	-70.12 dB	-35.58 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-52.12 dBm	-73.65 dB	-32.12 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-21.86 dBm	-43.40 dB	-1.86 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-19.27 dBm	-40.80 dB	-6.27 dB

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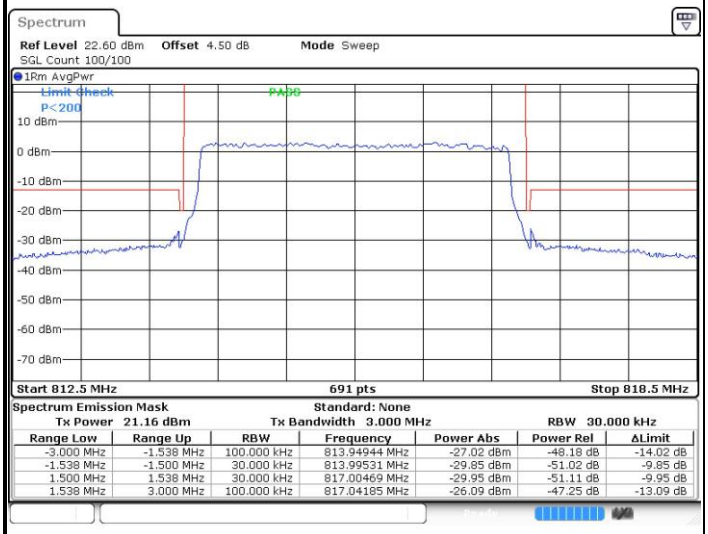
Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.16 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.94944 MHz	-27.02 dBm	-48.18 dB	-14.02 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-29.85 dBm	-51.02 dB	-9.85 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-29.95 dBm	-51.11 dB	-9.95 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.04185 MHz	-26.09 dBm	-47.25 dB	-13.09 dB

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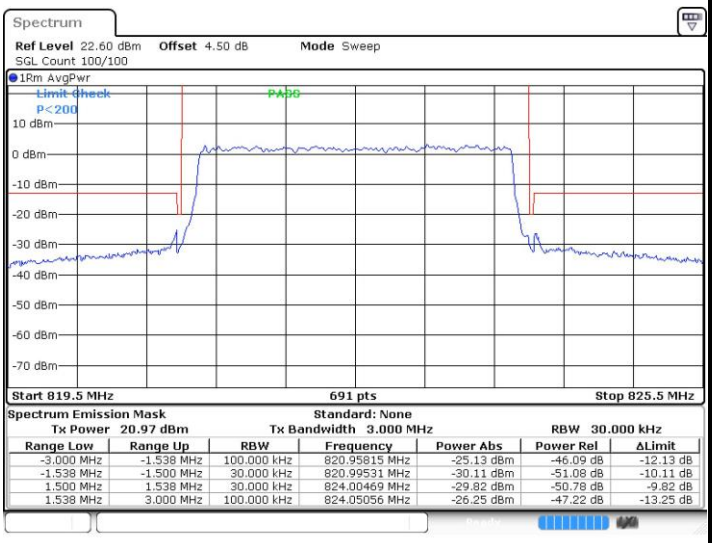
Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 20.97 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.95815 MHz	-25.13 dBm	-46.09 dB	-12.13 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-30.11 dBm	-51.08 dB	-10.11 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-29.82 dBm	-50.78 dB	-9.82 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.05056 MHz	-26.25 dBm	-47.22 dB	-13.25 dB

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