FCC RF Test Report

APPLICANT	:	Honeywell International Inc. Honeywell Safety and Productivity Solutions
EQUIPMENT	:	DOLPHIN CT40
BRAND NAME	:	Honeywell
MODEL NAME	:	CT40-L1N
FCC ID	:	HD5-CT40L1N
STANDARD	:	FCC 47 CFR Part 2, and 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 04, 2018 and testing was completed on Jun. 16, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI/TIA-603-E 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

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
FW850409B	Rev. 01	Initial issue of report	Nov. 13, 2018

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 28.99 dB at 1630.000 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

1 General Description

1.1. Applicant

Honeywell International Inc.
Honeywell Safety and Productivity Solutions
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc.
Honeywell Safety and Productivity Solutions
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

1.3. Feature of Equipment Under Test

Product Feature	
Equipment	DOLPHIN CT40
Brand Name	Honeywell
Model Name	CT40-L1N
FCC ID	HD5-CT40L1N
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA / HSPA+(16QAM uplink is not supported)/LTE/NFC 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
IMEI Code	Conducted: 990011960007085 Radiation: 990011960005766
HW Version	V1.0
SW Version	OS.01.010-HON.01.102
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples under test, the difference is scanner that from different suppliers, According to the difference, sample 1 is assessed to perform full test.

1.4. Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 26 : 814.7 ~ 823.3 MHz
Rx Frequency	LTE Band 26 : 859.7 ~ 868.3 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	23.42 dBm
Antenna Type	IFA 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. Maximum Frequency Tolerance, Emission Designator and Conducted Power

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	0.2188
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M09W7D	0.1858
Part 90S	LTE Band 26	64QAM	1.4 MHz	-	1M09W7D	0.1358
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M73G7D	0.2153
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M73W7D	0.1862
Part 90S	LTE Band 26	64QAM	3 MHz	-	2M73W7D	0.1374
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M51G7D	0.2173
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M51W7D	0.1858
Part 90S	LTE Band 26	64QAM	5 MHz	-	4M54W7D	0.1374
Part 90S	LTE Band 26	QPSK	10 MHz	0.0087	9M03G7D	0.2188
Part 90S	LTE Band 26	16QAM	10 MHz	-	9M01W7D	0.1862
Part 90S	LTE Band 26	64QAM	10 MHz	-	9M03W7D	0.1377
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M4G7D	0.2198
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M3W7D	0.1862
Part 90S	LTE Band 26	64QAM	15 MHz	-	13M4W7D	0.1409

1.7. 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.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City 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 03CH02-KS	CN5013	630927

1.8. Applied Standards

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

- FCC 47 CFR Part 2, 90(S)
- ANSI/TIA-603-E
- 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

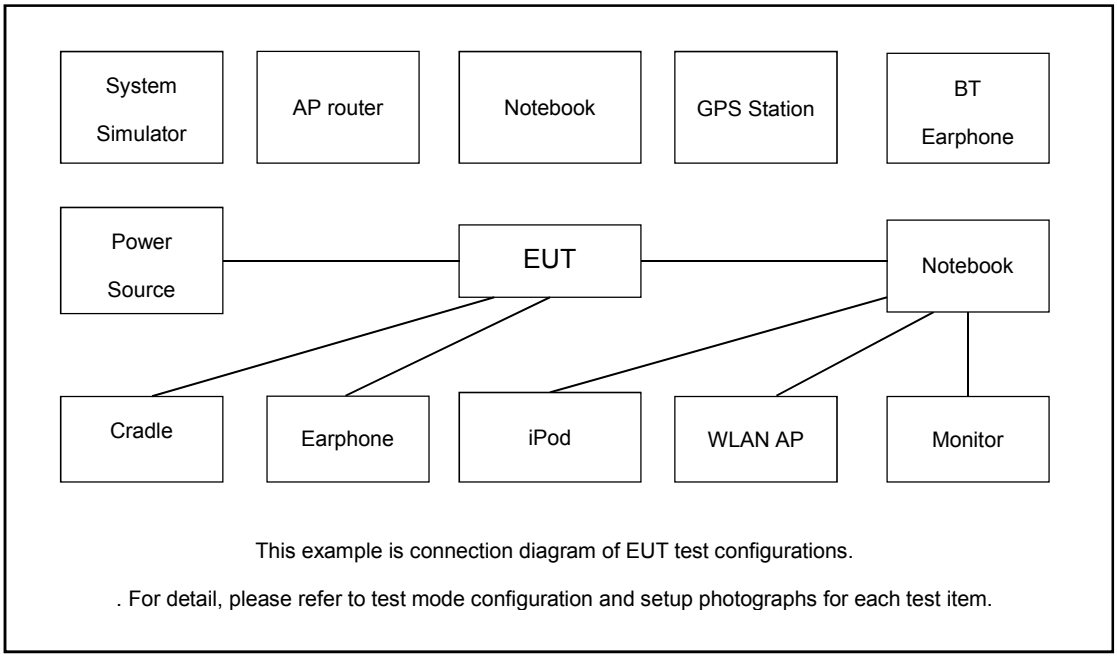
2.1 Test Mode

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.

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			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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.5dB.

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.

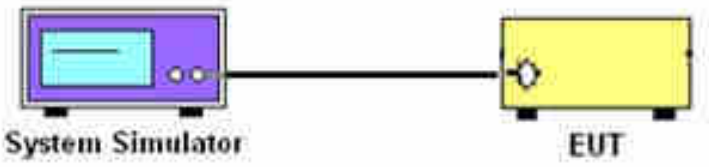
3.1.2 Measuring Instruments

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 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.

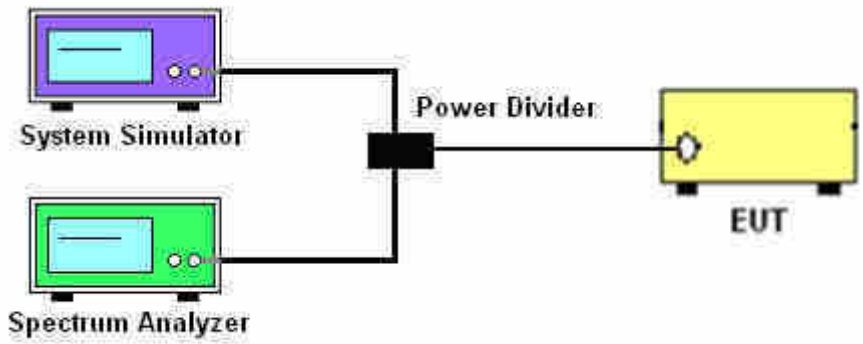
3.2.2 Measuring Instruments

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.

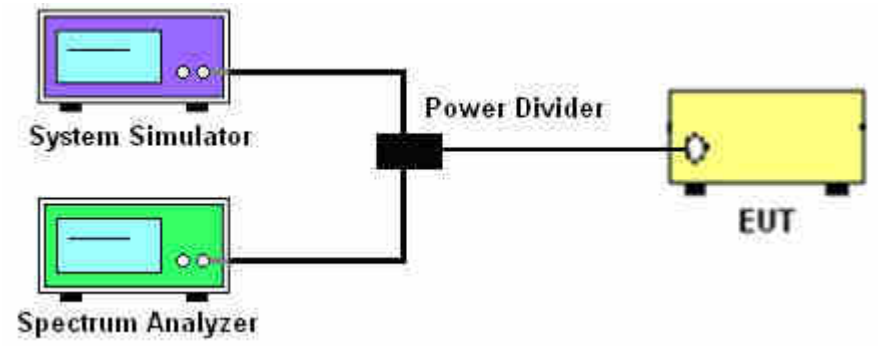
3.3.2 Measuring Instruments

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.

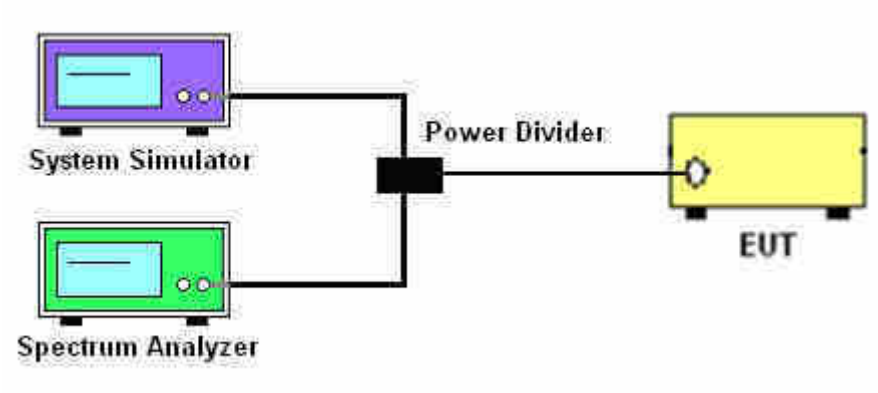
3.4.2 Measuring Instruments

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)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

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

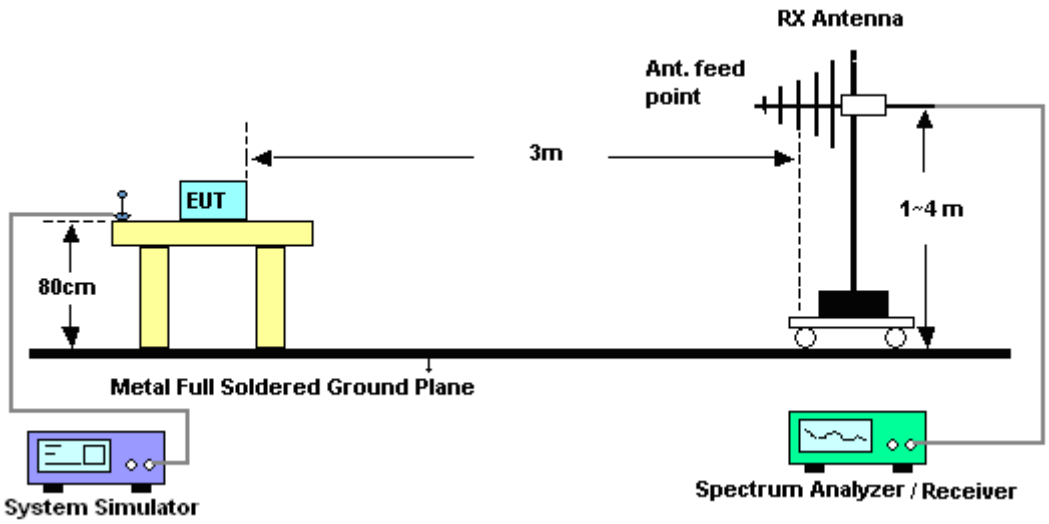
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

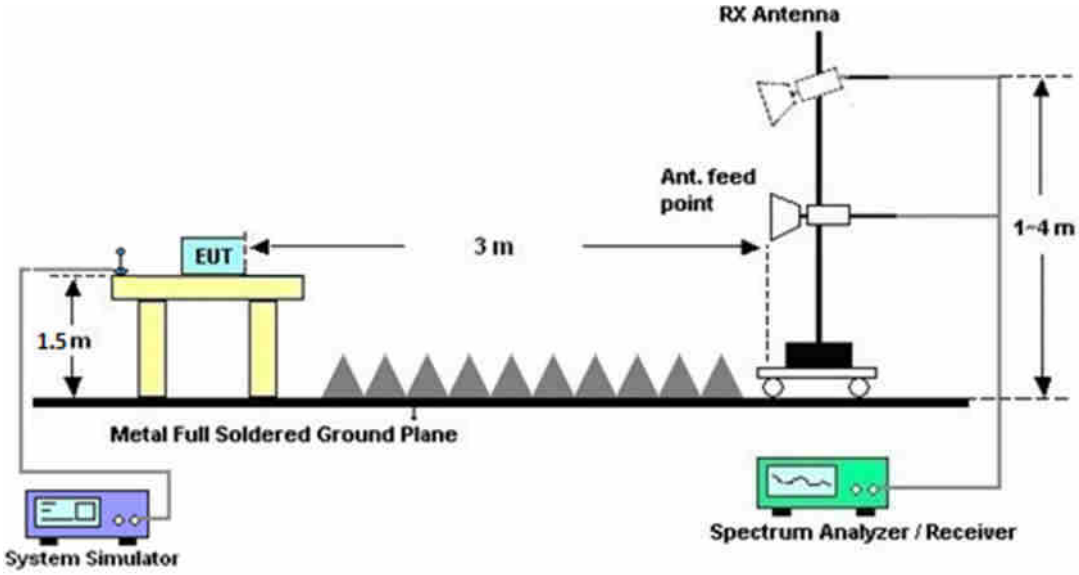
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position 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)
    = P(W) - [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

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.

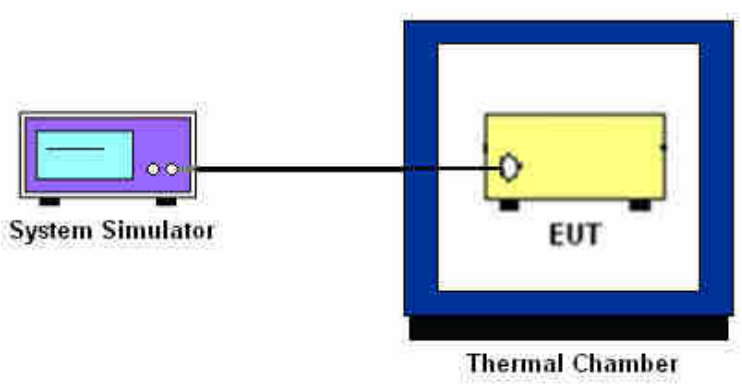
3.6.3 Test Procedures for Temperature Variation

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 base station.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. 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, 2017	Jun. 16, 2018	Apr. 18, 2018	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 12, 2017	Jun. 16, 2018	Oct. 11, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44G,MAX 30dB	Apr. 17, 2018	Jun. 16, 2018	Apr. 16, 2019	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-2GHz	Jan. 29, 2018	Jun. 16, 2018	Jan. 28, 2019	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	Jun. 16, 2018	Oct. 20, 2018	Radiation (03CH02-KS)
Amplifier	Burgeon	BPA-530	102220	0.01MHz~1GHz	Dec. 16, 2017	Jun. 16, 2018	Dec. 15, 2018	Radiation (03CH02-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	100MHz-18GHz	Apr. 17, 2018	Jun. 16, 2018	Apr. 16, 2019	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 12, 2017	Jun. 16, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jun. 16, 2018	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jun. 16, 2018	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jun. 16, 2018	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 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	23.42	-	-
15	1	37		23.35		
15	1	74		23.20		
15	36	0		22.41		
15	36	20		22.39		
15	36	39		22.33		
15	75	0		22.41		
15	1	0	16-QAM	22.70		
15	1	37		22.69		
15	1	74		22.59		
15	36	0		21.45		
15	36	20		21.46		
15	36	39		21.36		
15	75	0		21.40		
15	1	0	64-QAM	21.43		
15	1	37		21.49		
15	1	74		21.33		
15	36	0		20.31		
15	36	20		20.32		
15	36	39		20.26		
15	75	0		20.28		

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	23.40	-
10	1	25			23.35	
10	1	49			23.33	
10	25	0			22.44	
10	25	12			22.42	
10	25	25			22.32	
10	50	0			22.38	
10	1	0	16-QAM		22.70	
10	1	25			22.70	
10	1	49			22.61	
10	25	0			21.41	
10	25	12			21.44	
10	25	25			21.33	
10	50	0			21.38	
10	1	0	64-QAM		21.39	
10	1	25			21.39	
10	1	49			21.34	
10	25	0			20.20	
10	25	12			20.22	
10	25	25			20.18	
10	50	0			20.18	

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.37	23.06	23.16
5	1	12		23.31	23.11	23.22
5	1	24		23.31	23.09	23.11
5	12	0		22.40	22.19	22.19
5	12	7		22.41	22.17	22.22
5	12	13		22.40	22.16	22.18
5	25	0		22.39	22.13	22.20
5	1	0	16-QAM	22.69	22.40	22.48
5	1	12		22.63	22.52	22.50
5	1	24		22.65	22.55	22.42
5	12	0		21.39	21.23	21.17
5	12	7		21.43	21.26	21.21
5	12	13		21.39	21.18	21.21
5	25	0		21.42	21.15	21.18
5	1	0	64-QAM	21.38	21.10	21.27
5	1	12		21.35	21.20	21.21
5	1	24		21.36	21.15	21.22
5	12	0		20.21	20.06	20.12
5	12	7		20.25	20.04	20.11
5	12	13		20.22	20.00	20.09
5	25	0		20.18	20.01	20.04

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.30	23.15	23.14
3	1	8		23.32	23.19	23.22
3	1	14		23.33	23.05	23.08
3	8	0		22.38	22.16	22.19
3	8	4		22.39	22.20	22.21
3	8	7		22.37	22.13	22.15
3	15	0		22.42	22.15	22.18
3	1	0	16-QAM	22.65	22.54	22.38
3	1	8		22.70	22.56	22.51
3	1	14		22.68	22.55	22.34
3	8	0		21.42	21.20	21.22
3	8	4		21.44	21.25	21.24
3	8	7		21.41	21.21	21.21
3	15	0		21.43	21.18	21.18
3	1	0	64-QAM	21.34	21.15	21.17
3	1	8		21.37	21.18	21.19
3	1	14		21.38	21.17	21.22
3	8	0		20.22	20.04	20.11
3	8	4		20.21	20.07	20.12
3	8	7		20.21	19.99	20.06
3	15	0		20.19	20.00	20.04

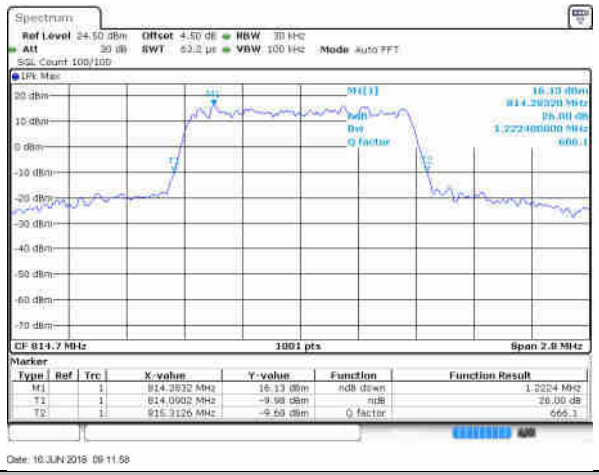
LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.32	23.16	23.08
1.4	1	3		23.38	23.20	23.15
1.4	1	5		23.32	23.15	23.07
1.4	3	0		23.37	23.19	23.14
1.4	3	1		23.40	23.24	23.18
1.4	3	3		23.40	23.22	23.23
1.4	6	0		22.35	22.16	22.11
1.4	1	0	16-QAM	22.61	22.38	22.31
1.4	1	3		22.69	22.49	22.38
1.4	1	5		22.58	22.41	22.33
1.4	3	0		22.37	22.26	22.16
1.4	3	1		22.41	22.32	22.23
1.4	3	3		22.41	22.27	22.20
1.4	6	0		21.40	21.24	21.18
1.4	1	0	64-QAM	21.25	21.11	21.13
1.4	1	3		21.33	21.19	21.14
1.4	1	5		21.25	21.14	21.19
1.4	3	0		21.27	21.10	21.17
1.4	3	1		21.30	21.15	21.19
1.4	3	3		21.27	21.15	21.14
1.4	6	0		20.11	19.98	20.03

26dB Bandwidth

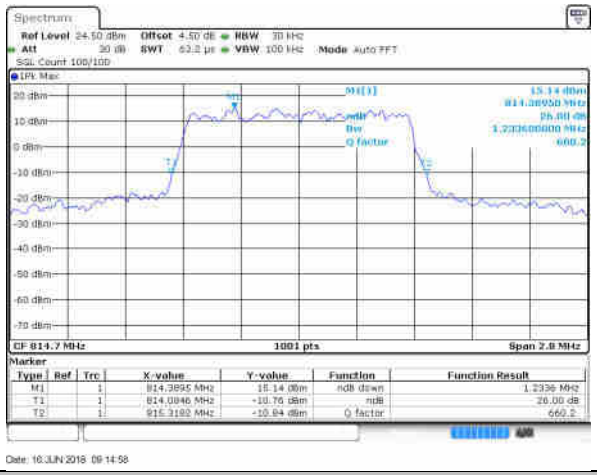
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.222	1.234	3.015	3.057	4.945	4.875	-	-	14.326	14.595	-	-
Middle CH	1.231	1.225	3.045	3.039	4.955	4.915	9.77	9.77	-	-	-	-
Highest CH	1.239	1.222	3.033	3.015	4.885	4.895	-	-	-	-	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM			
Lowest CH	1.217		3.039		4.915				14.386			
Middle CH	1.22		3.015		4.925		9.73					
Highest CH	1.231		2.997		4.875							

LTE Band 26

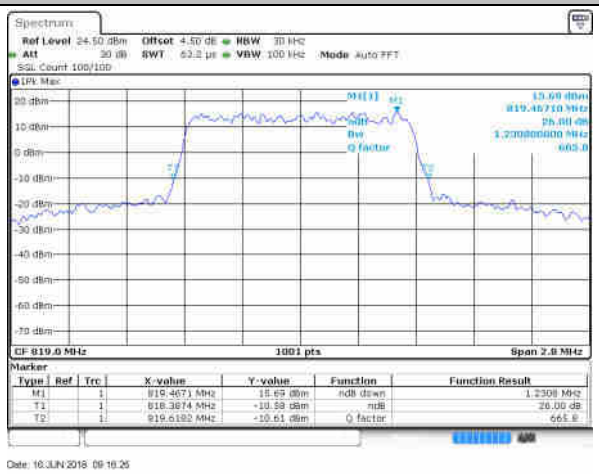
Lowest Channel / 1.4MHz / QPSK



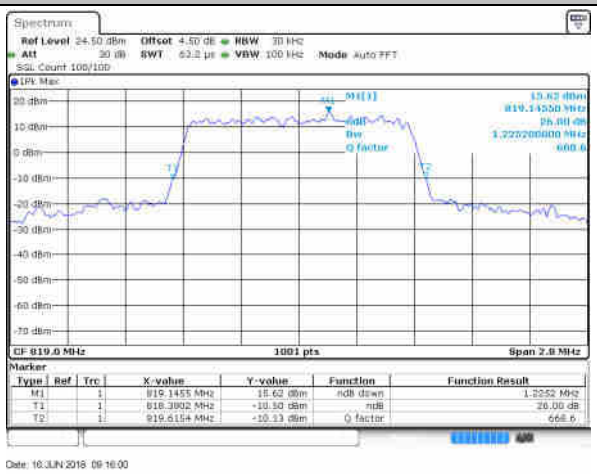
Lowest Channel / 1.4MHz / 16QAM



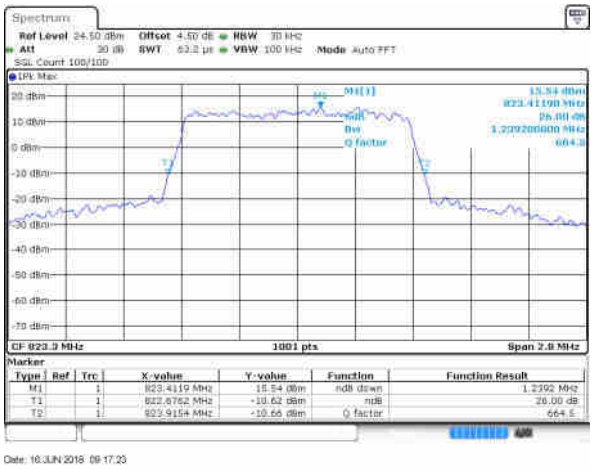
Middle Channel / 1.4MHz / QPSK



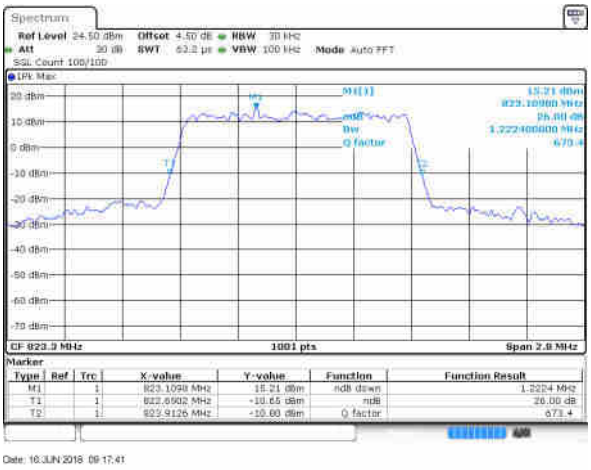
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

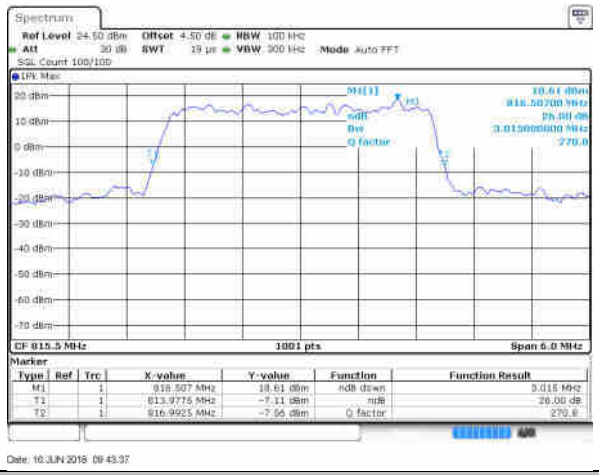


Highest Channel / 1.4MHz / 16QAM

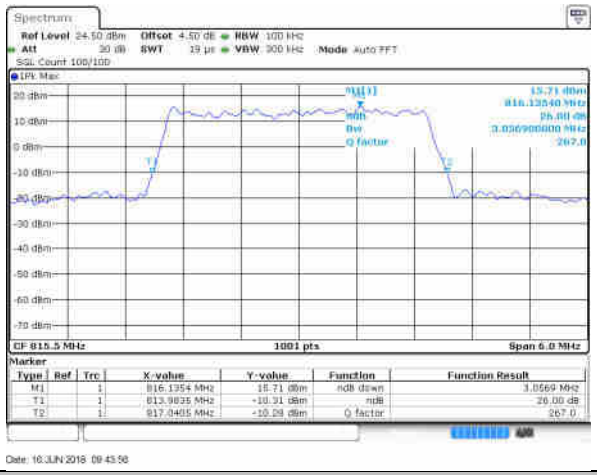


LTE Band 26

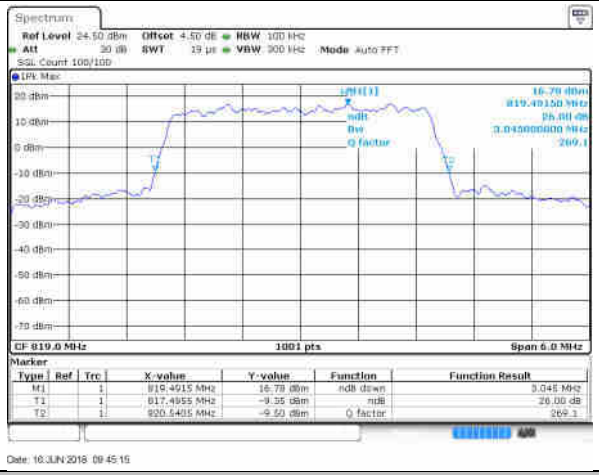
Lowest Channel / 3MHz / QPSK



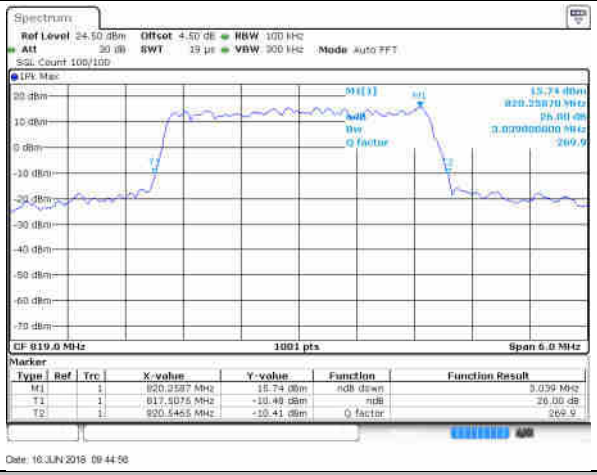
Lowest Channel / 3MHz / 16QAM



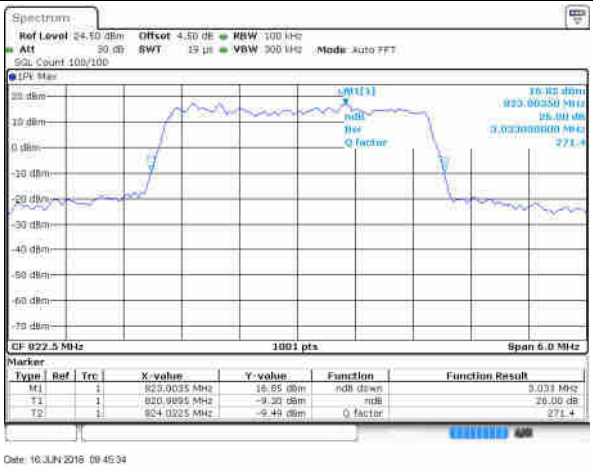
Middle Channel / 3MHz / QPSK



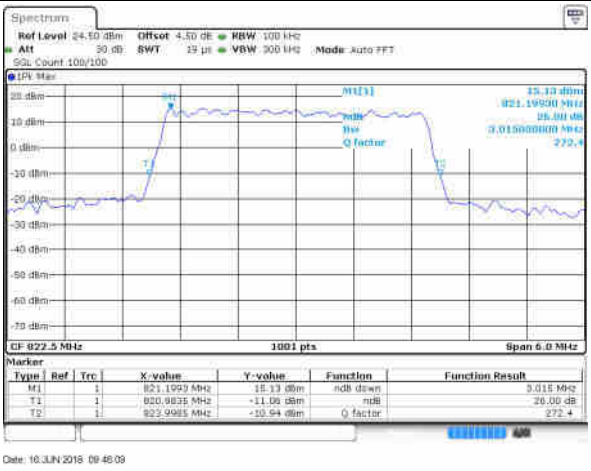
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

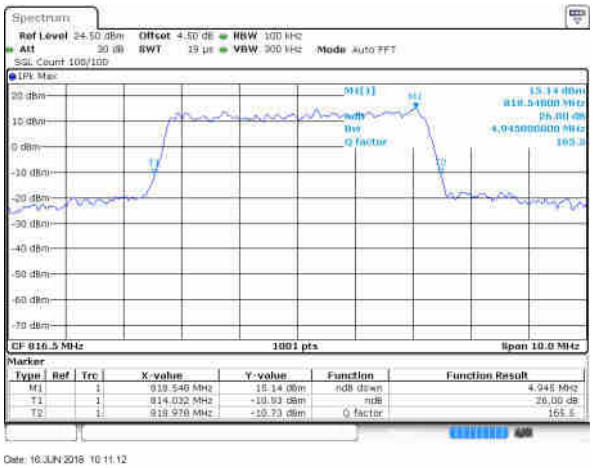


Highest Channel /3MHz / 16QAM

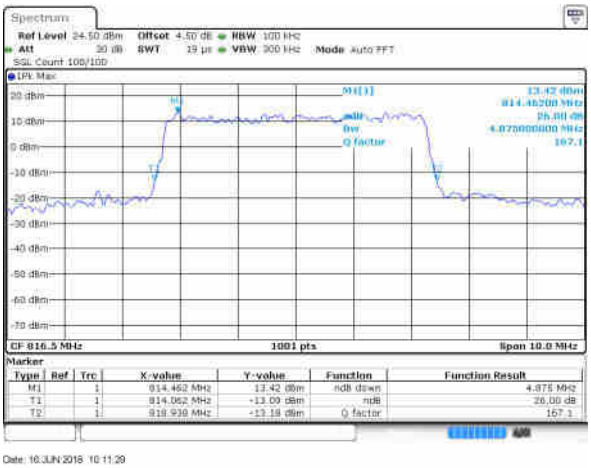


LTE Band 26

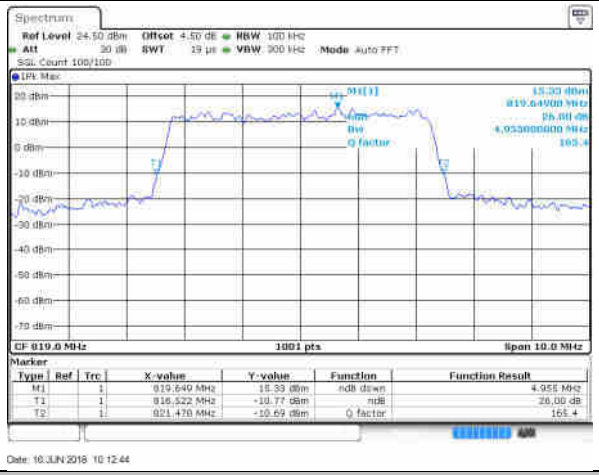
Lowest Channel / 5MHz / QPSK



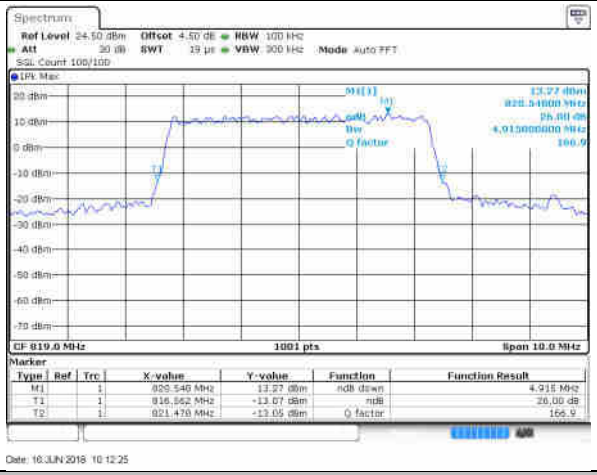
Lowest Channel / 5MHz / 16QAM



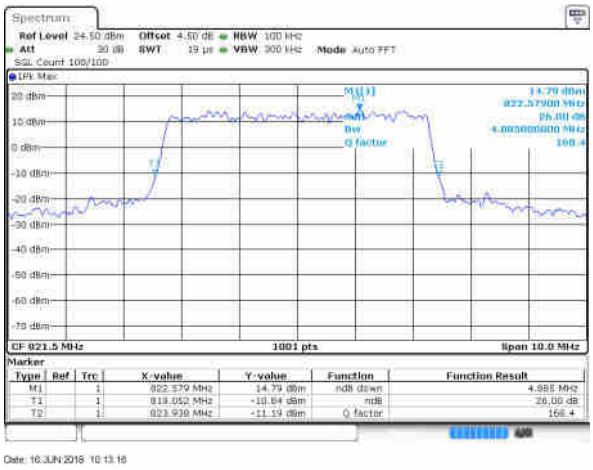
Middle Channel / 5MHz / QPSK



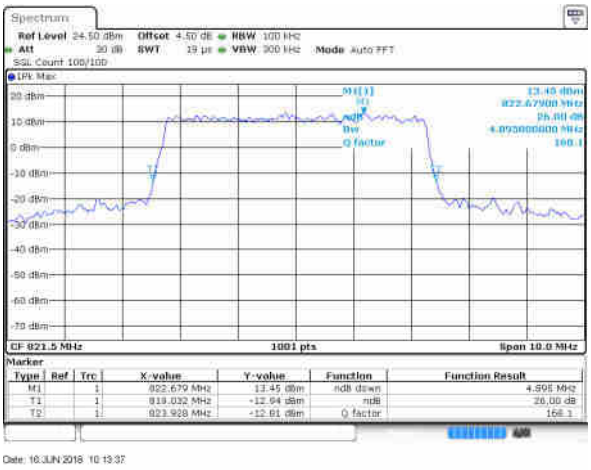
Middle Channel / 5MHz / 16QAM

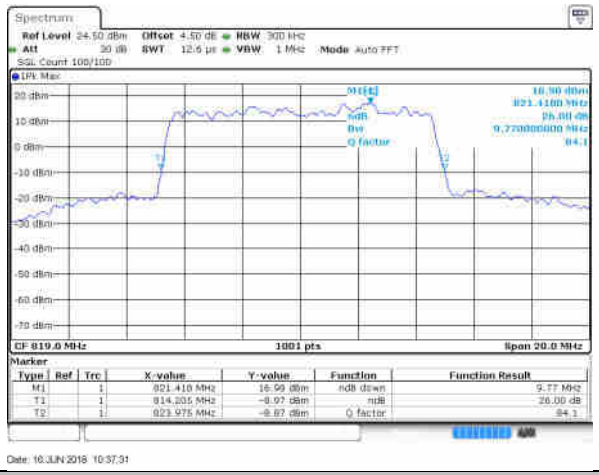
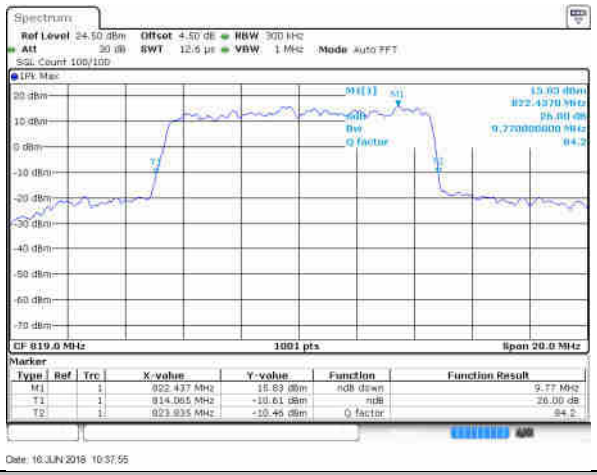
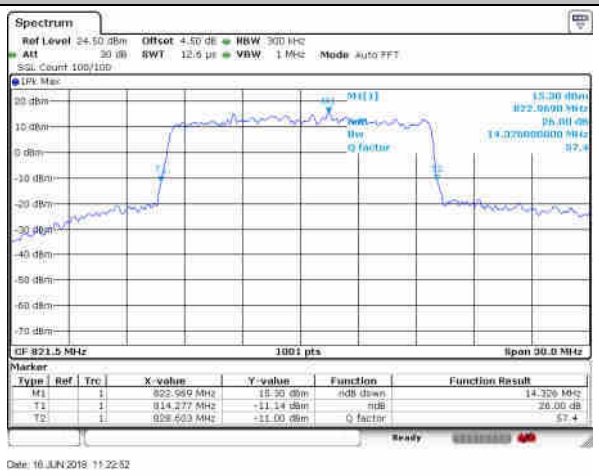
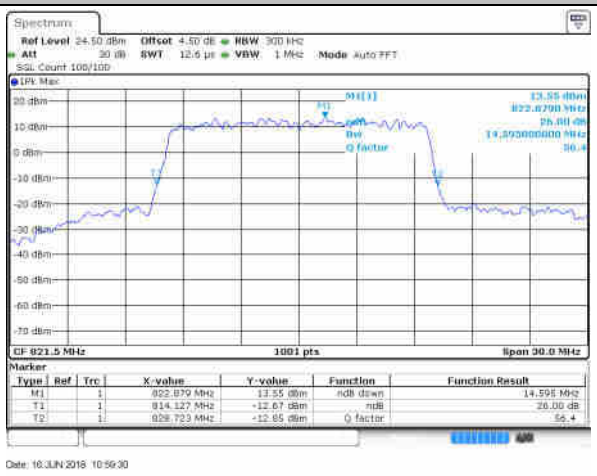


Highest Channel / 5MHz / QPSK



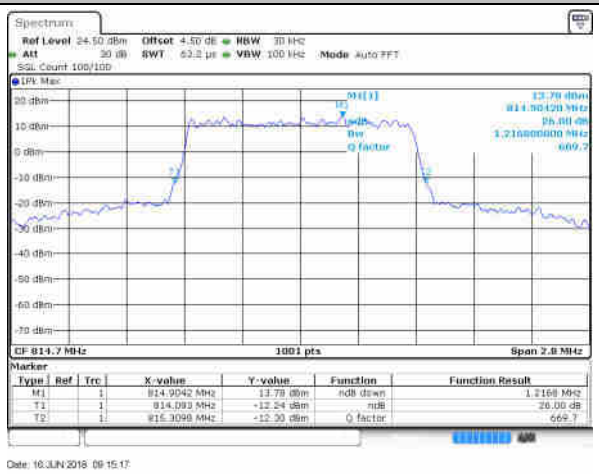
Highest Channel / 5MHz / 16QAM



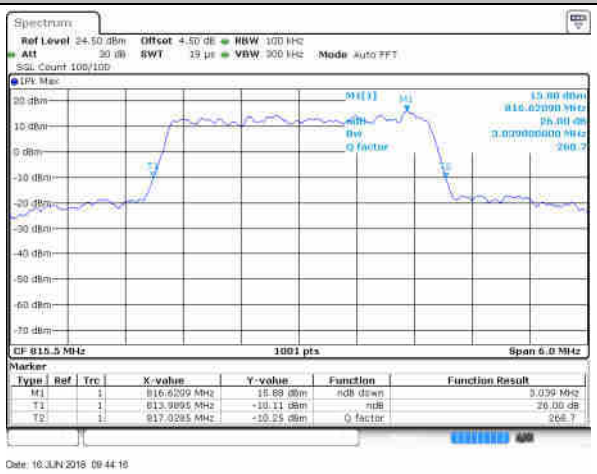
LTE Band 26	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	
Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
	

LTE Band 26

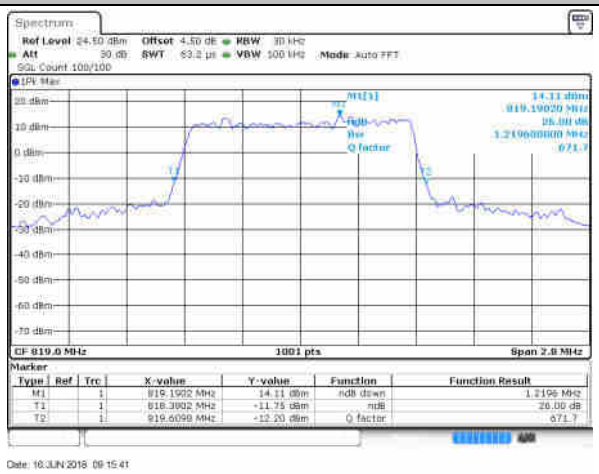
Lowest Channel / 1.4MHz / 64QPSK



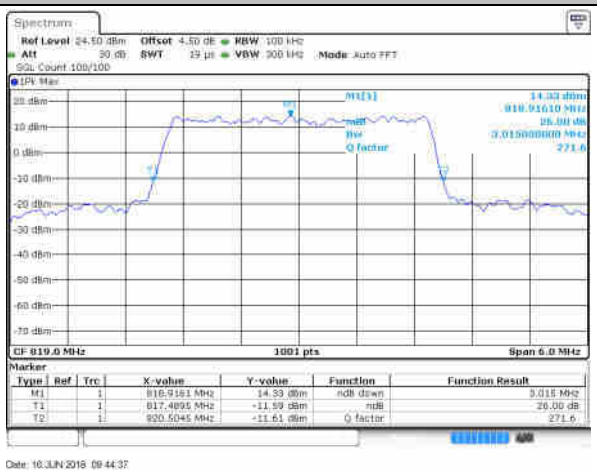
Lowest Channel / 3MHz / 64QAM



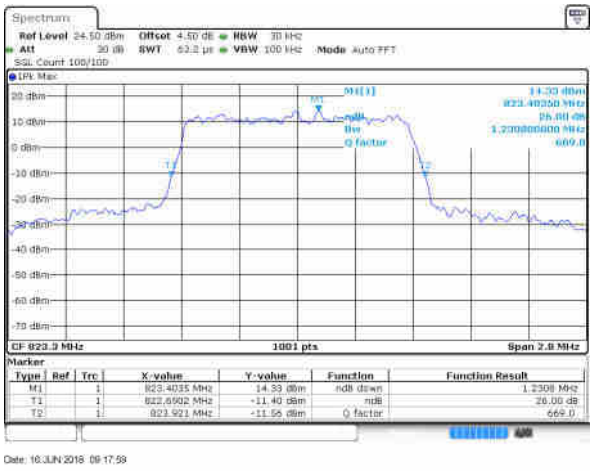
Middle Channel / 1.4MHz / 64QPSK



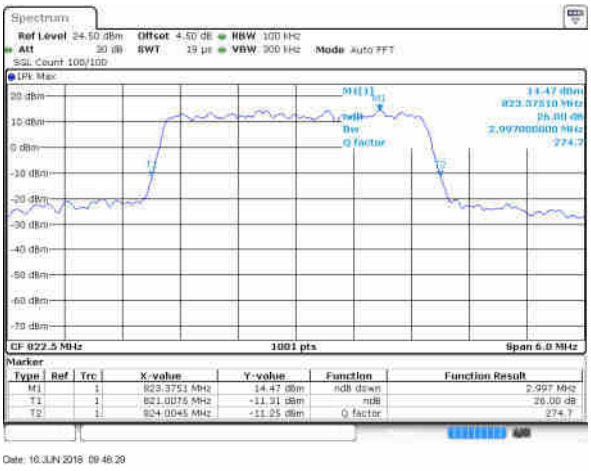
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QPSK

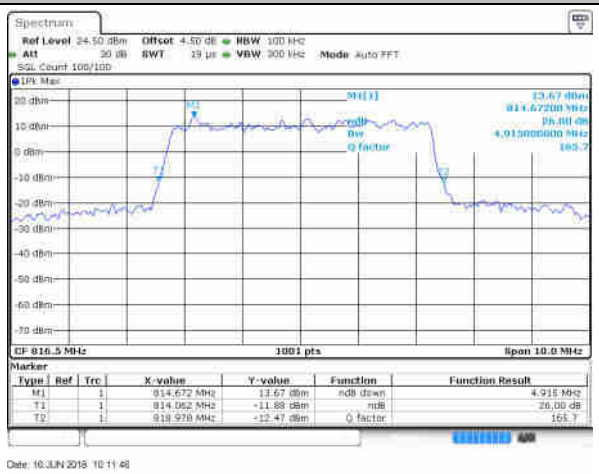


Highest Channel / 3MHz / 64QAM

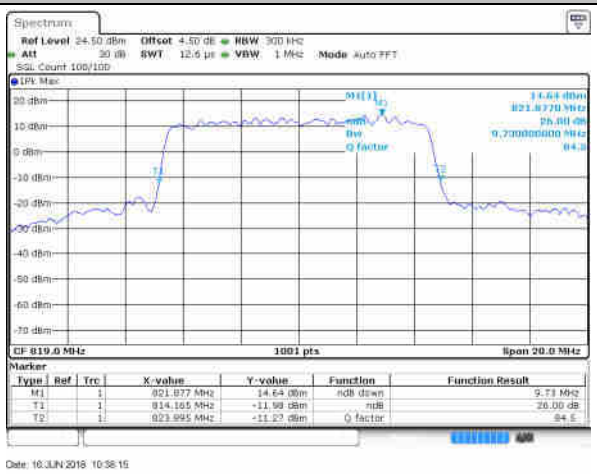


LTE Band 26

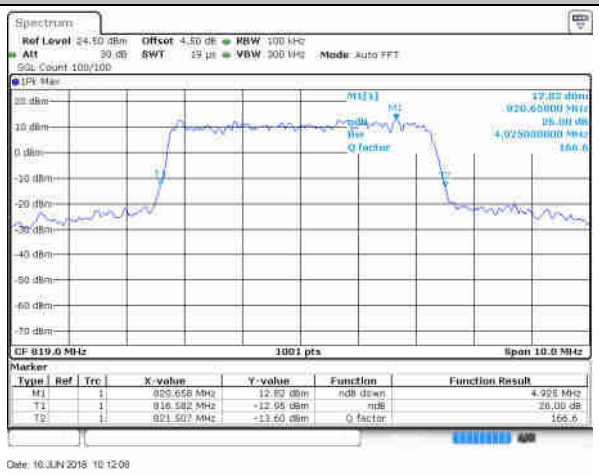
Lowest Channel / 5MHz / 64QPSK



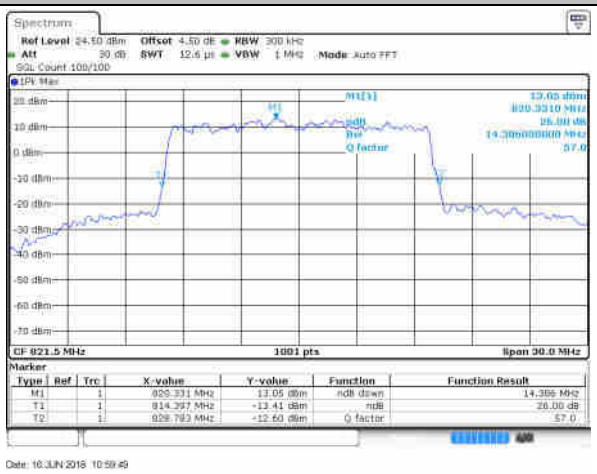
Middle Channel / 10MHz / 64QPSK



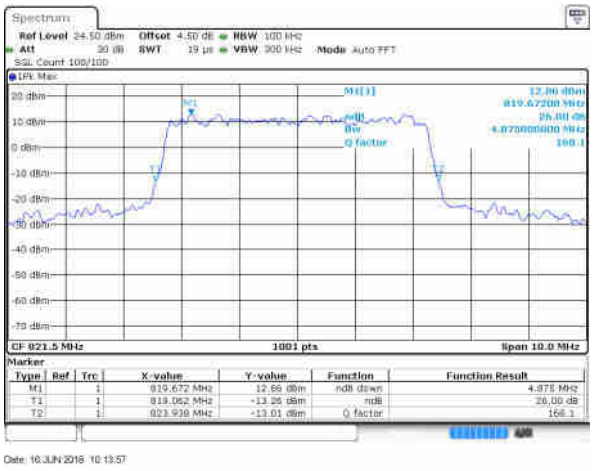
Middle Channel / 5MHz / 64QPSK



Lowest Channel /15MHz / 64QPSK



Highest Channel / 5MHz / 64QPSK

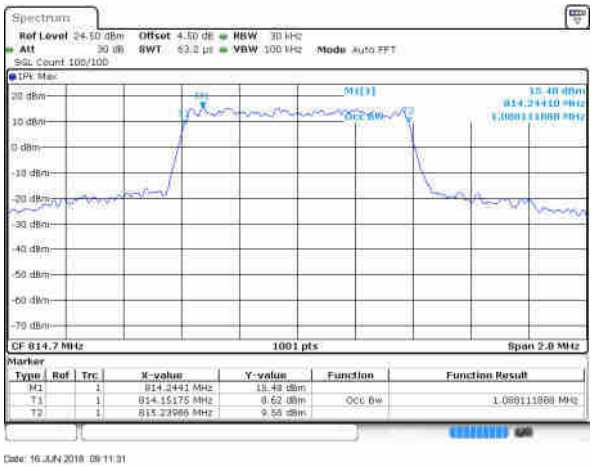


Occupied Bandwidth

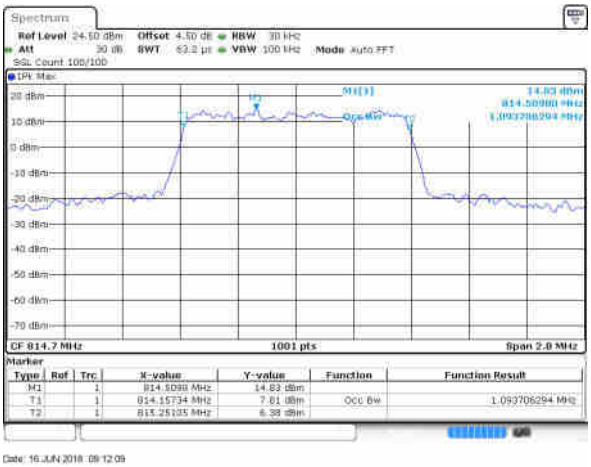
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.71	4.48	4.49	-	-	13.43	13.34	-	-
Middle CH	1.09	1.08	2.73	2.73	4.51	4.5	9.03	9.01	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.49	4.51	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM			
Lowest CH	1.09		2.72		4.51				13.4			
Middle CH	1.09		2.73		4.52		9.03					
Highest CH	1.09		2.73		4.54							

LTE Band 26

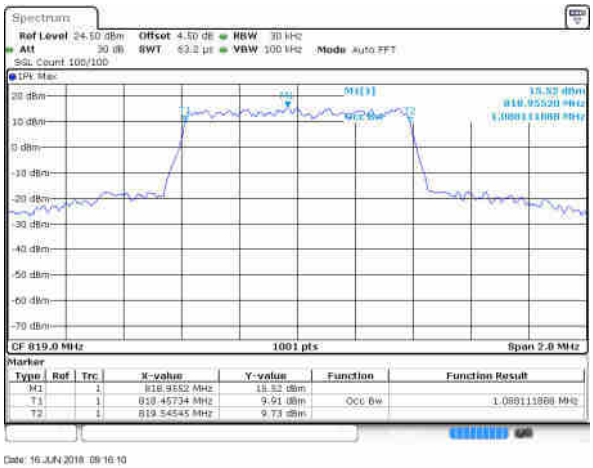
Lowest Channel / 1.4MHz / QPSK



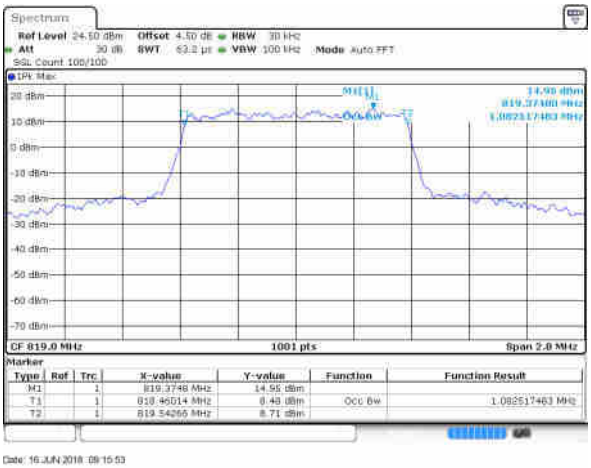
Lowest Channel / 1.4MHz / 16QAM



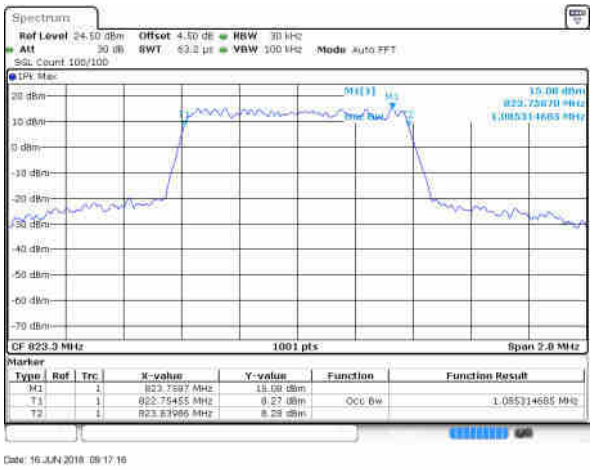
Middle Channel / 1.4MHz / QPSK



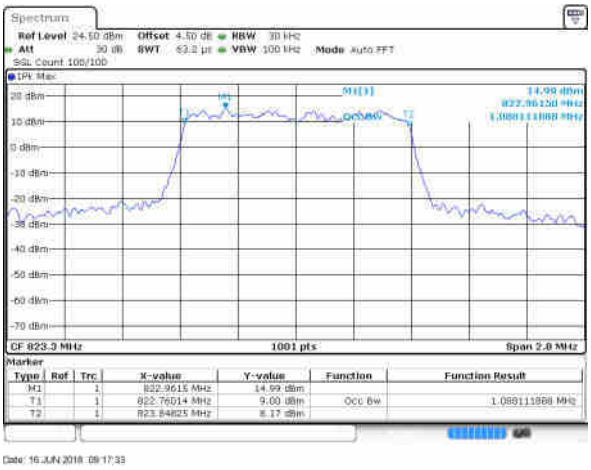
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

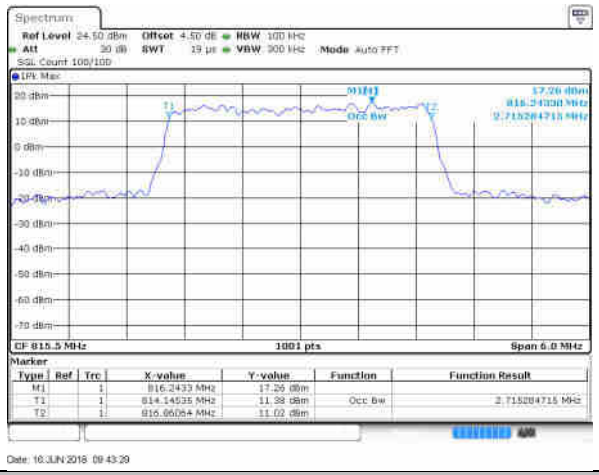


Highest Channel / 1.4MHz / 16QAM

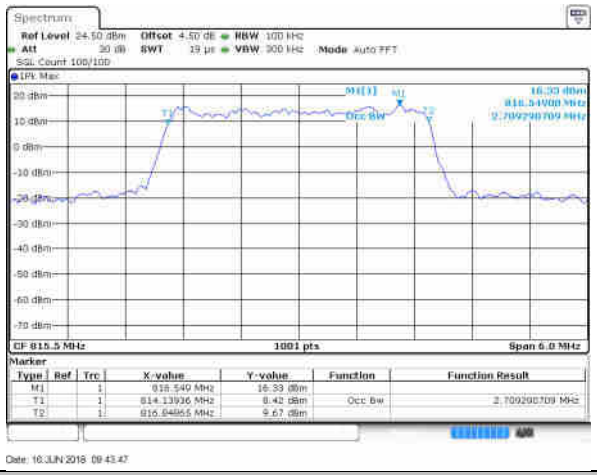


LTE Band 26

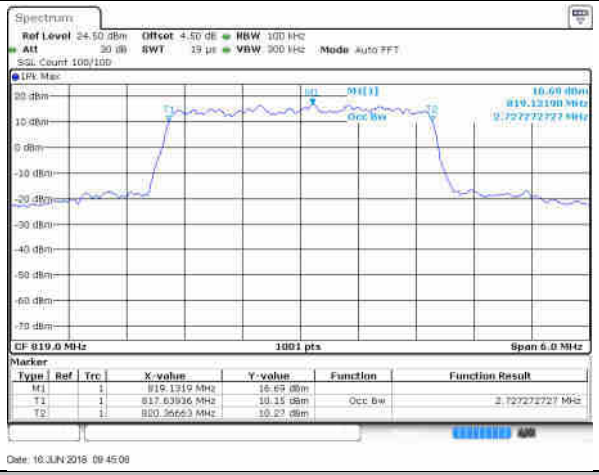
Lowest Channel / 3MHz / QPSK



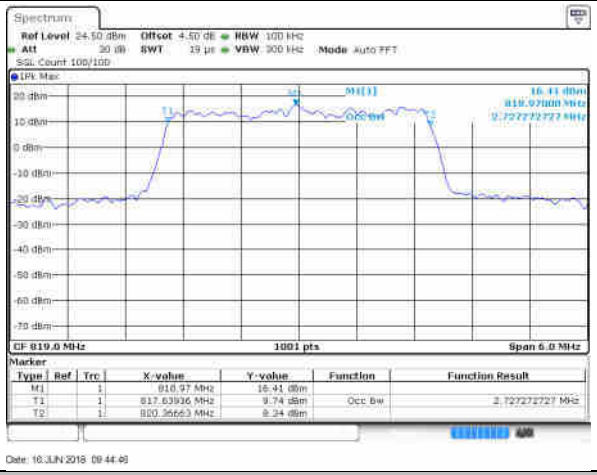
Lowest Channel / 3MHz / 16QAM



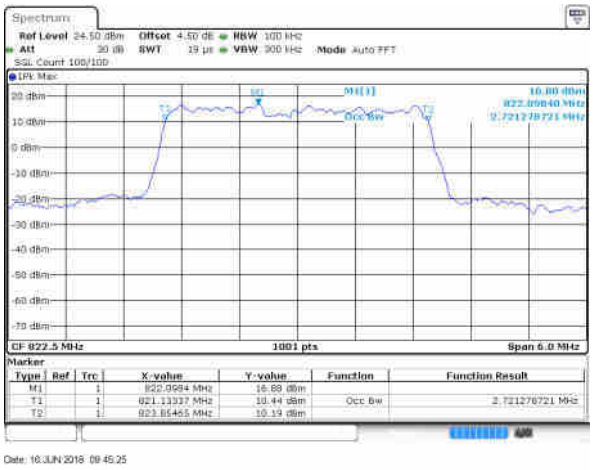
Middle Channel / 3MHz / QPSK



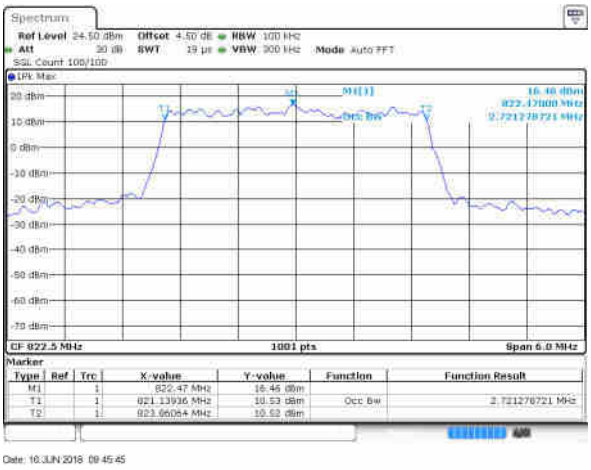
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

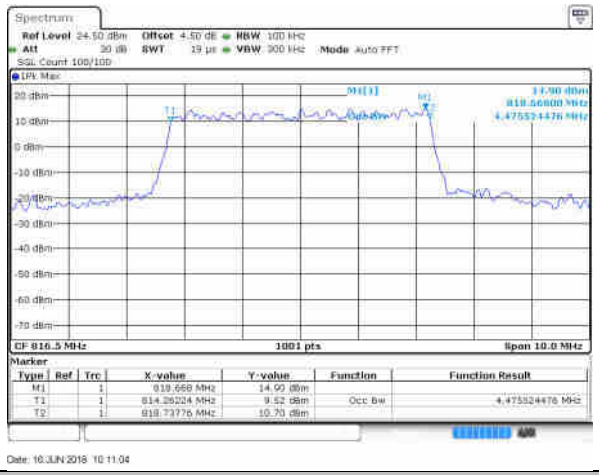


Highest Channel / 3MHz / 16QAM

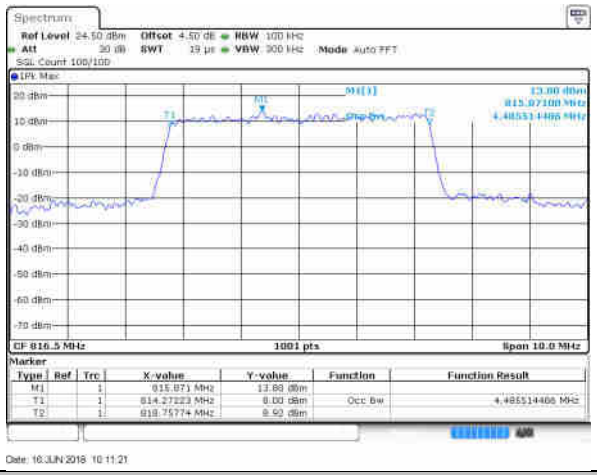


LTE Band 26

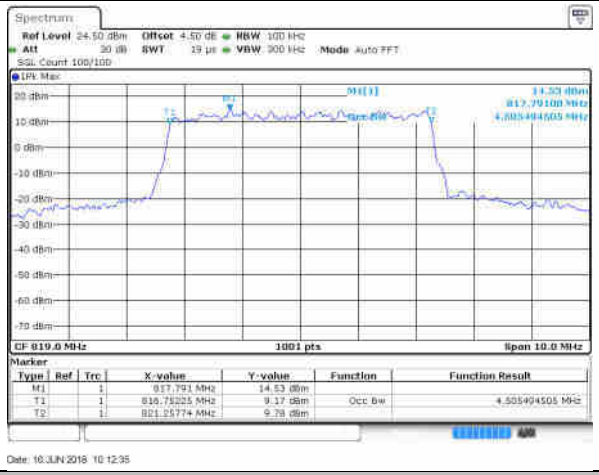
Lowest Channel / 5MHz / QPSK



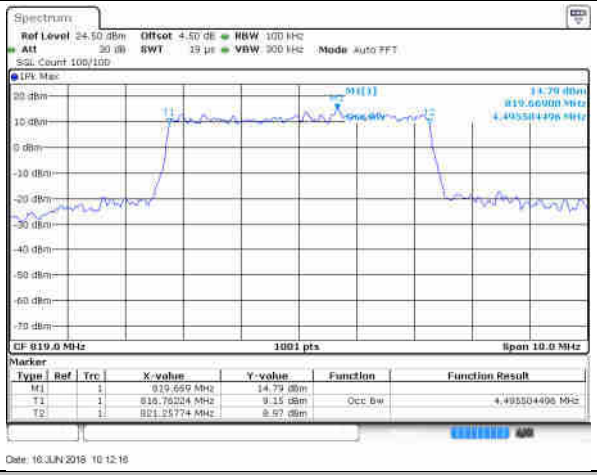
Lowest Channel / 5MHz / 16QAM



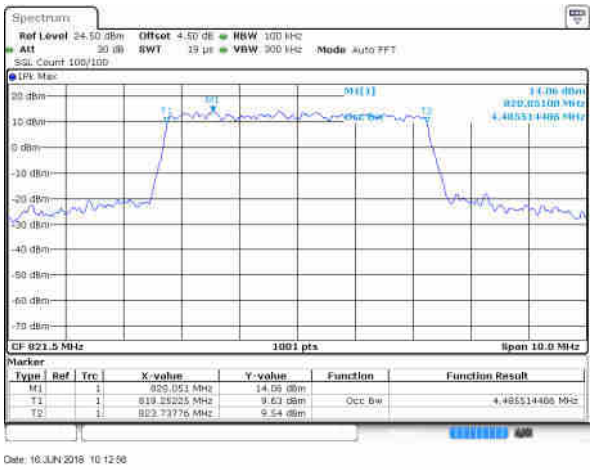
Middle Channel / 5MHz / QPSK



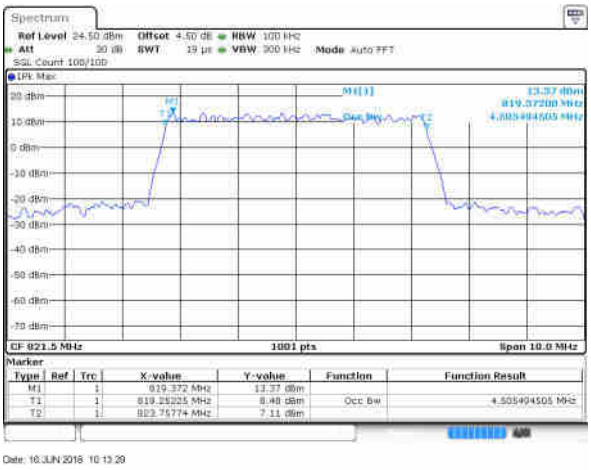
Middle Channel / 5MHz / 16QAM

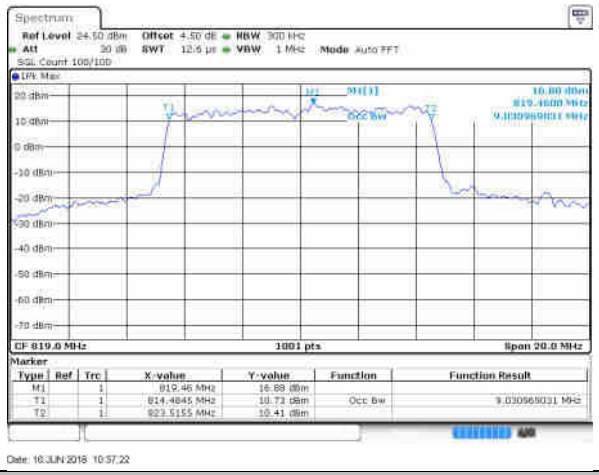
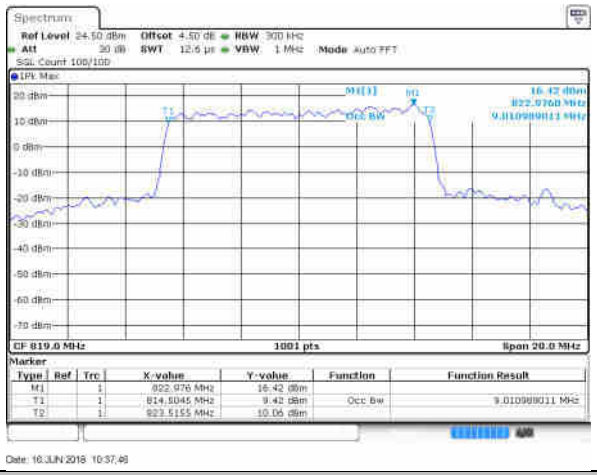
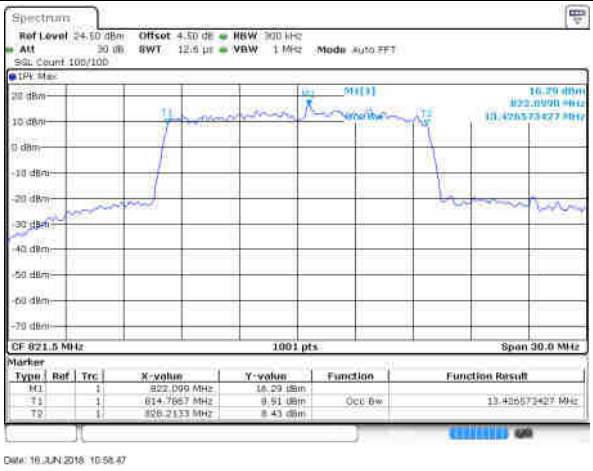
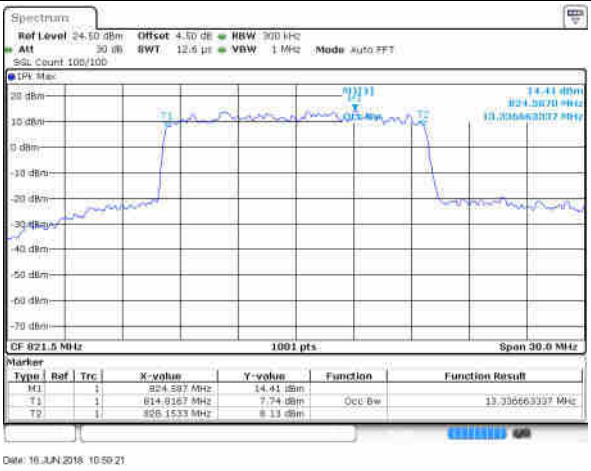


Highest Channel / 5MHz / QPSK



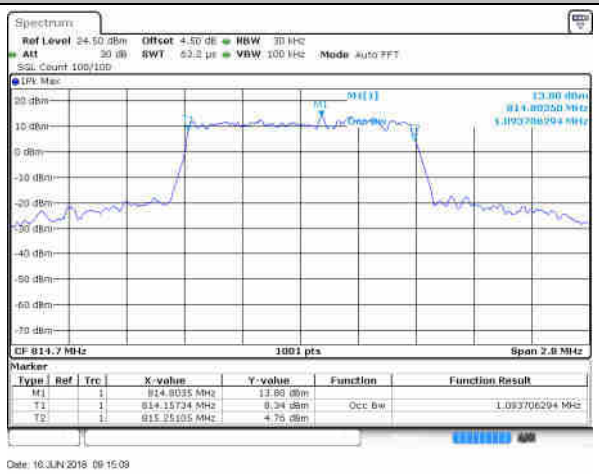
Highest Channel / 5MHz / 16QAM



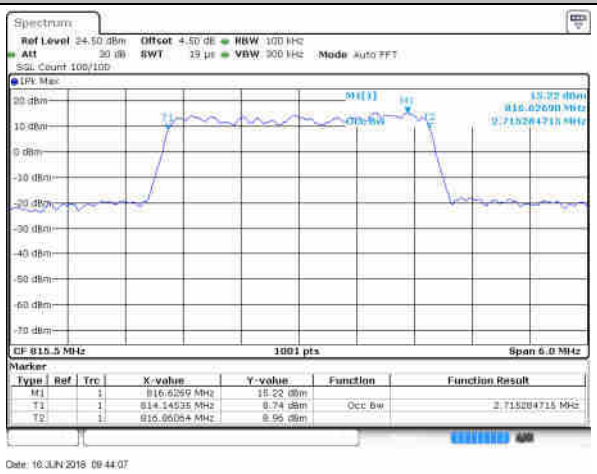
LTE Band 26	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	
LTE Band 26	
Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
	

LTE Band 26

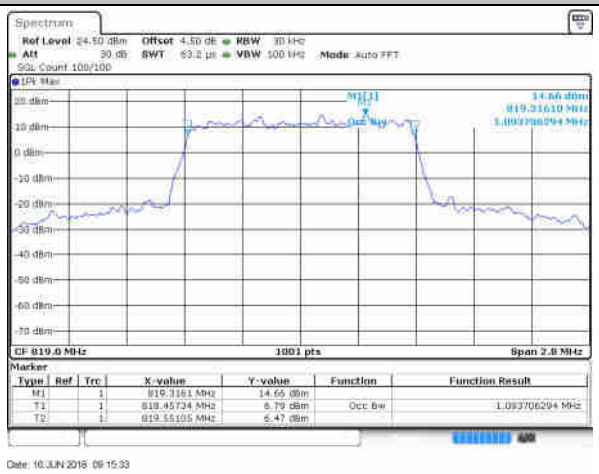
Lowest Channel / 1.4MHz / 64QPSK



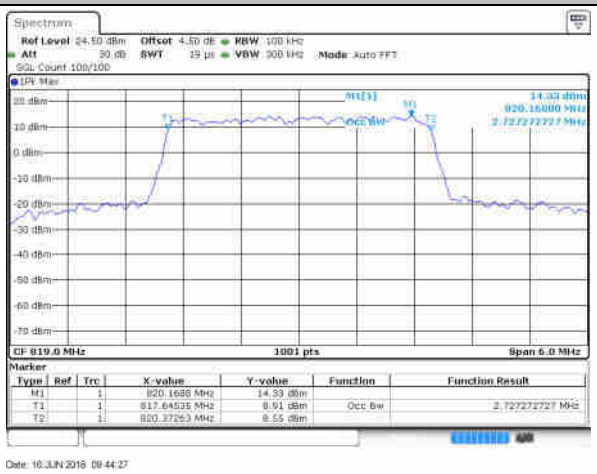
Lowest Channel / 3MHz / 64QAM



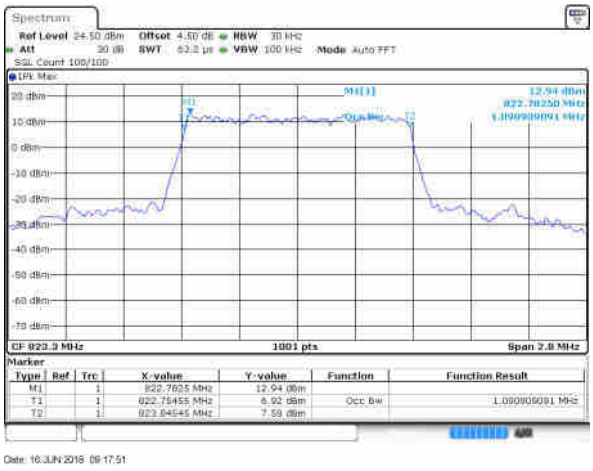
Middle Channel / 1.4MHz / 64QPSK



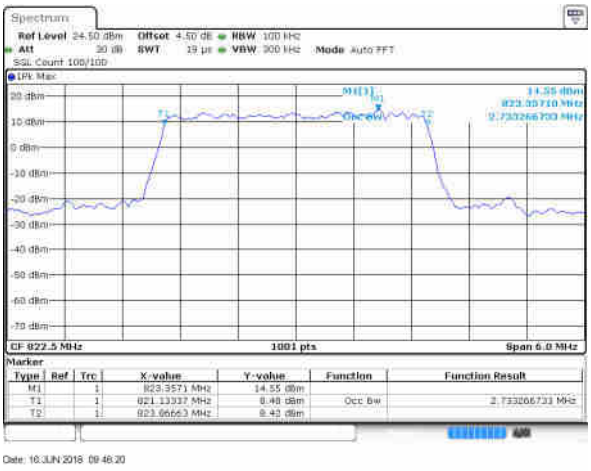
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QPSK

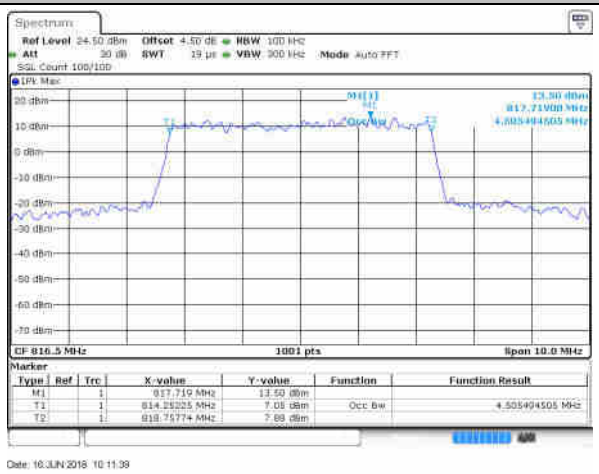


Highest Channel / 3MHz / 64QAM

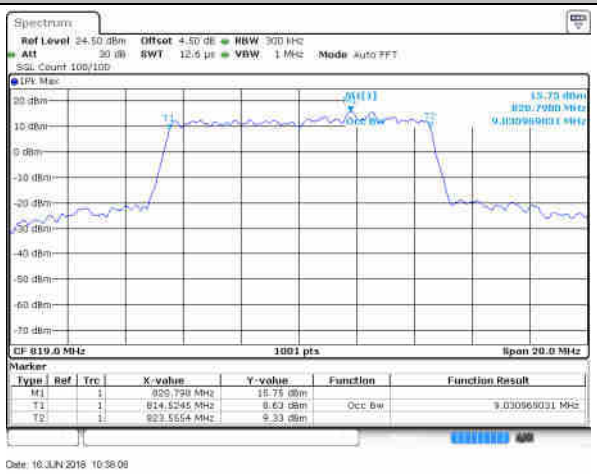


LTE Band 26

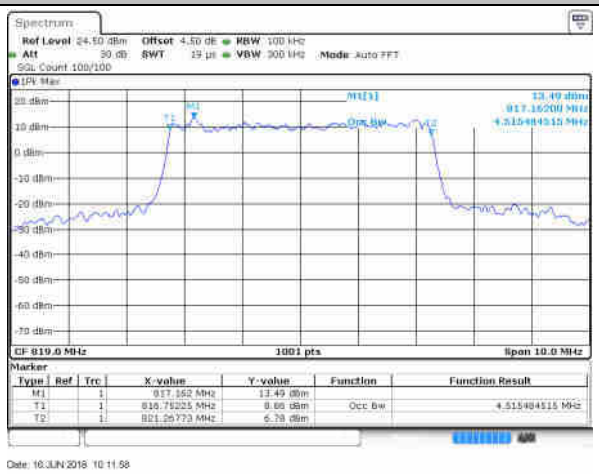
Lowest Channel / 5MHz / 64QPSK



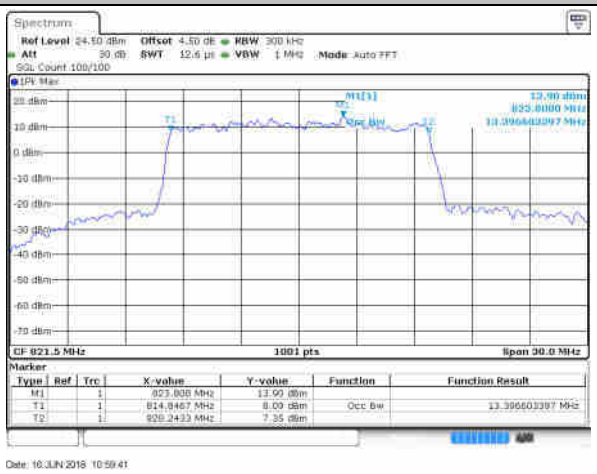
Middle Channel / 10MHz / 64QPSK



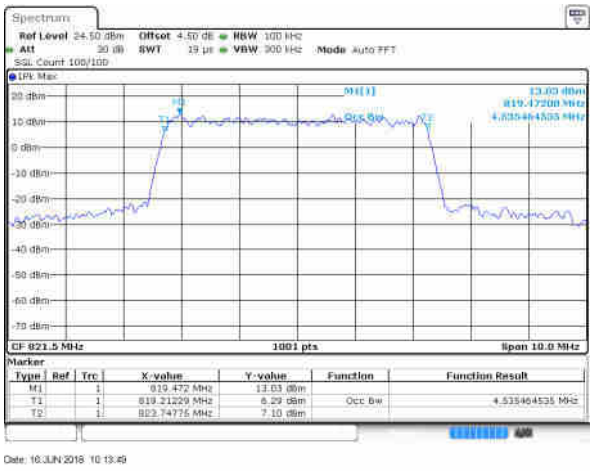
Middle Channel / 5MHz / 64QPSK



Lowest Channel /15MHz / 64QPSK



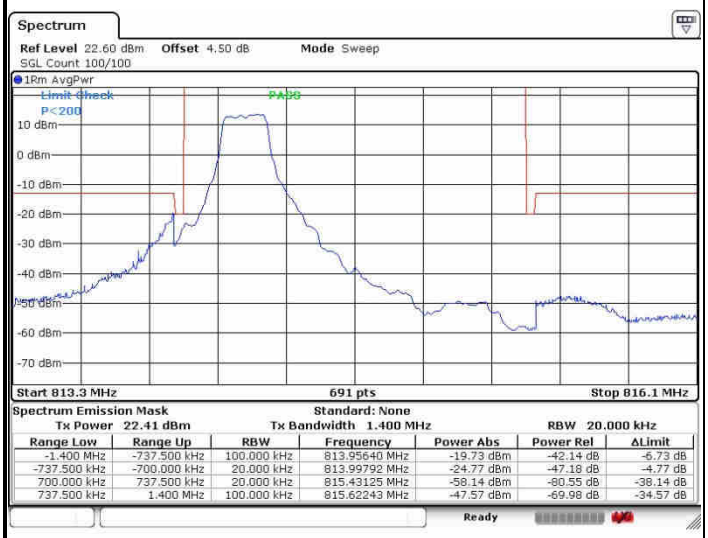
Highest Channel / 5MHz / 64QPSK



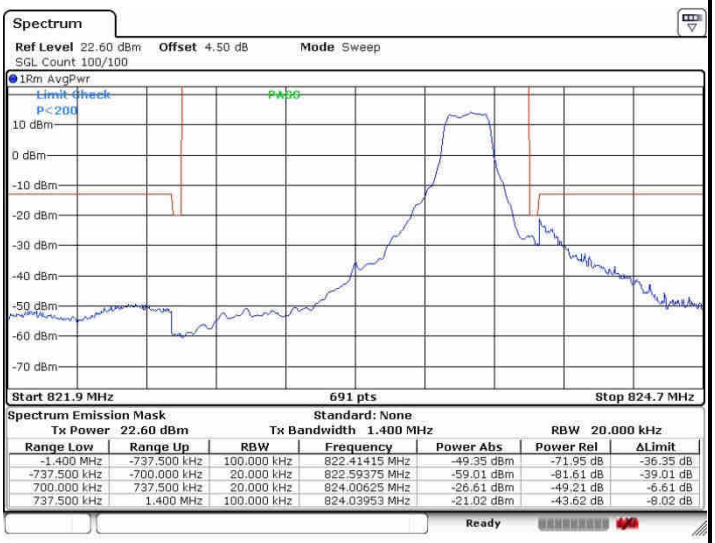
Conducted Band Edge

LTE Band 26 / 1.4MHz / QPSK

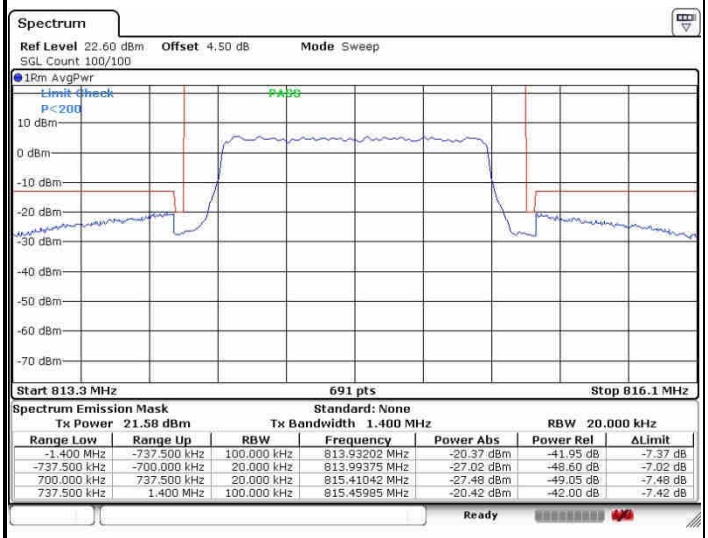
Lowest Band Edge / 1RB



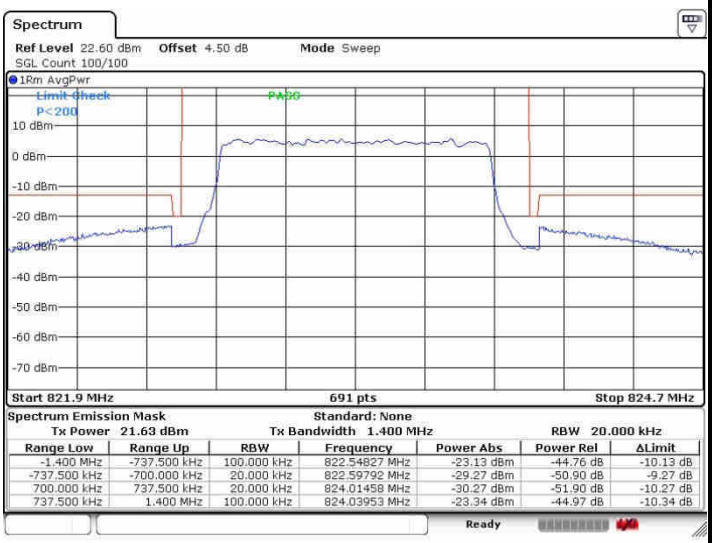
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

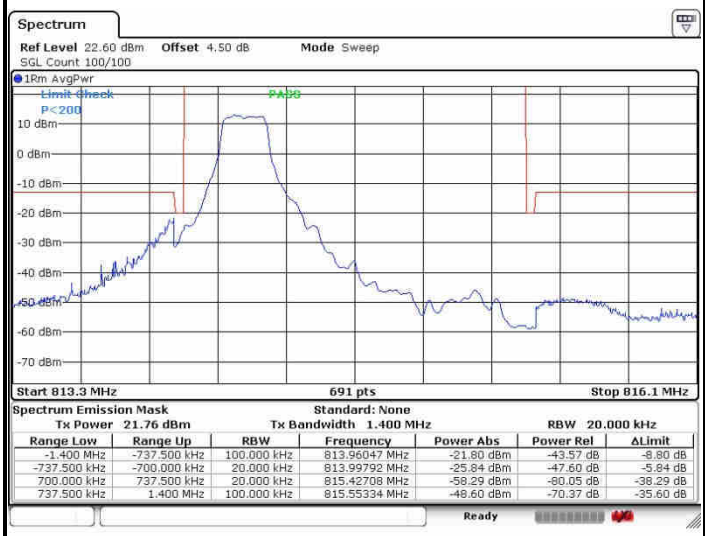


Highest Band Edge / Full RB



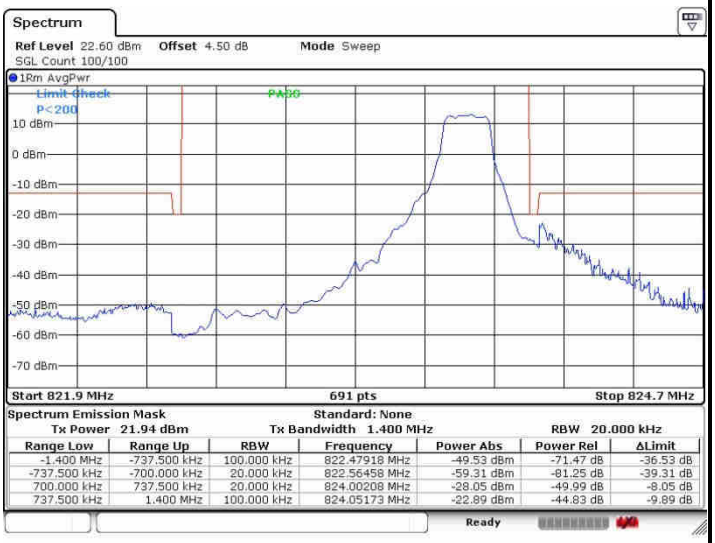
LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 16.JUN.2018 09:32:09

Highest Band Edge / 1 RB



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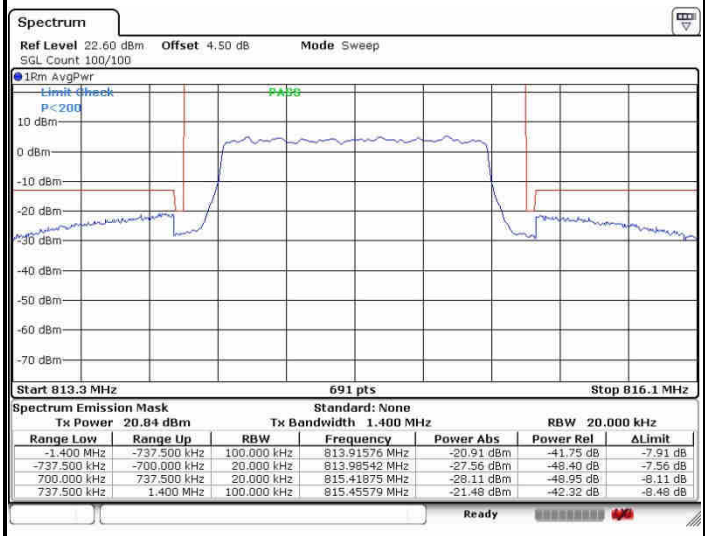
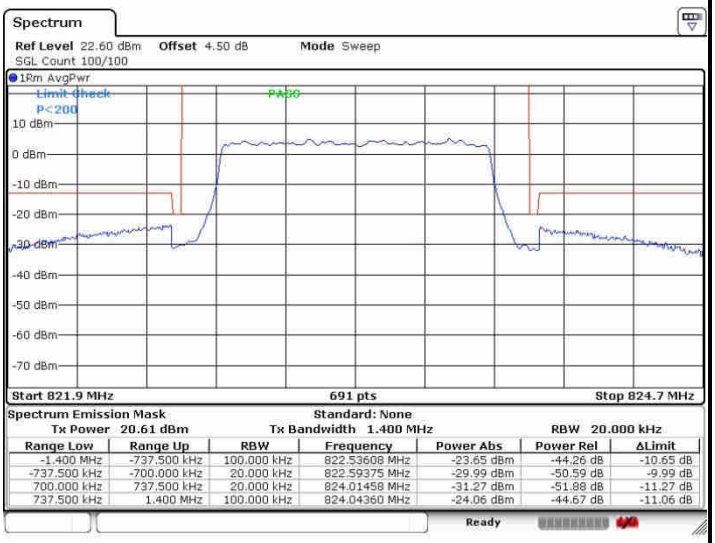
Lowest Band Edge / Full RB



Date: 16.JUN.2018 09:34:48

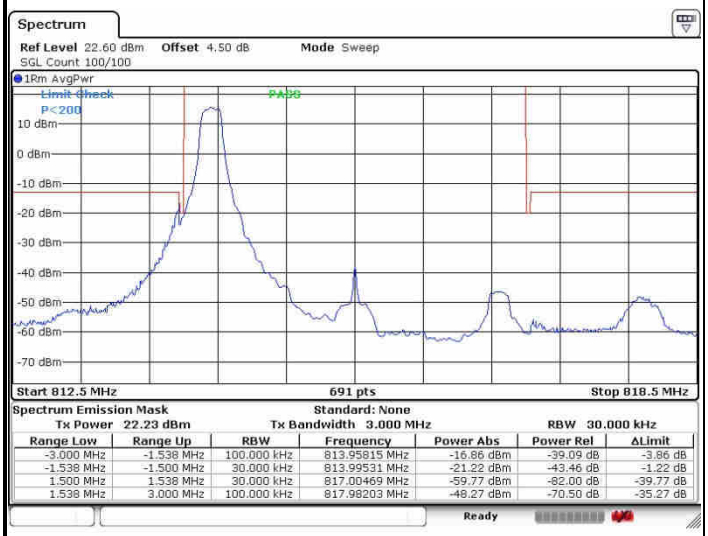
Highest Band Edge / Full RB



Date: 16.JUN.2018 09:41:22

LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



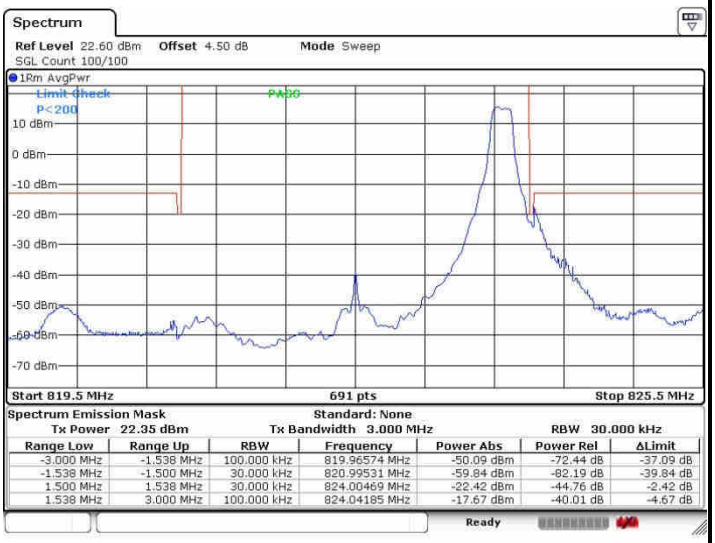
Spectrum Emission Mask Standard: None
Tx Power 22.23 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-16.86 dBm	-39.09 dB	-3.86 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-21.22 dBm	-43.46 dB	-1.22 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-59.77 dBm	-82.00 dB	-39.77 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.98203 MHz	-48.27 dBm	-70.50 dB	-35.27 dB

Ready

Date: 16.JUN.2018 09:59:06

Highest Band Edge / 1 RB



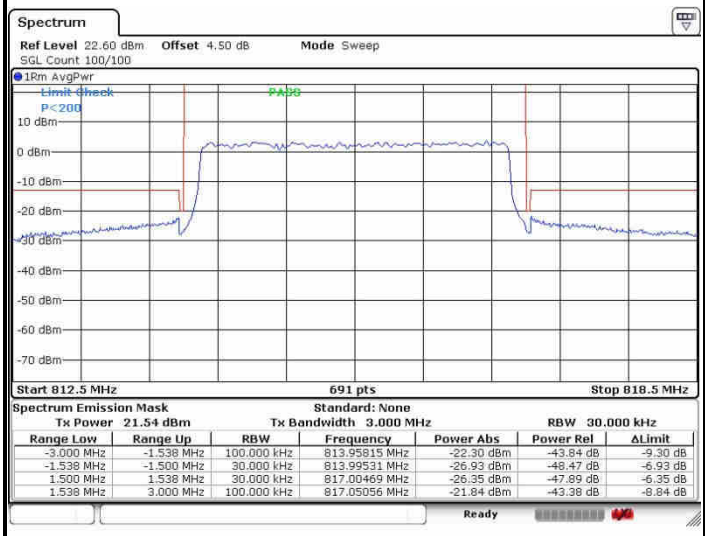
Spectrum Emission Mask Standard: None
Tx Power 22.35 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	819.96574 MHz	-50.09 dBm	-72.44 dB	-37.09 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-59.84 dBm	-82.19 dB	-39.84 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-22.42 dBm	-44.76 dB	-2.42 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-17.67 dBm	-40.01 dB	-4.67 dB

Ready

Date: 16.JUN.2018 10:04:36

Lowest Band Edge / Full RB



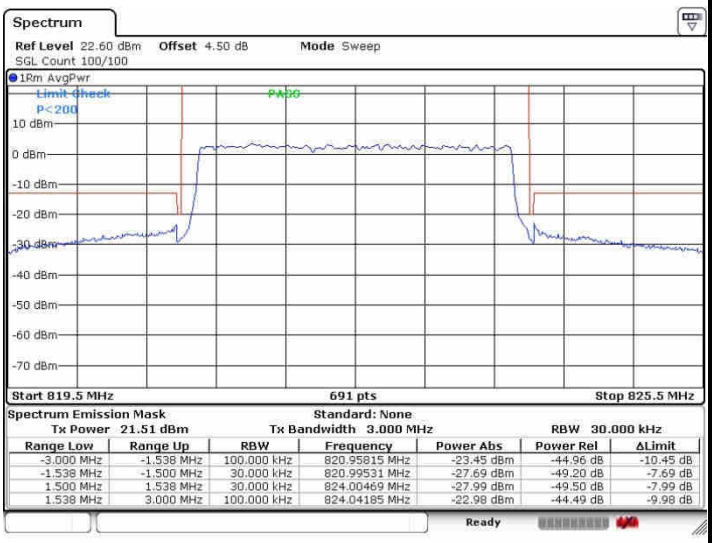
Spectrum Emission Mask Standard: None
Tx Power 21.54 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-22.30 dBm	-43.84 dB	-9.30 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-26.93 dBm	-48.47 dB	-6.93 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-26.35 dBm	-47.89 dB	-6.35 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.05056 MHz	-21.84 dBm	-43.38 dB	-8.84 dB

Ready

Date: 16.JUN.2018 09:59:23

Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.51 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

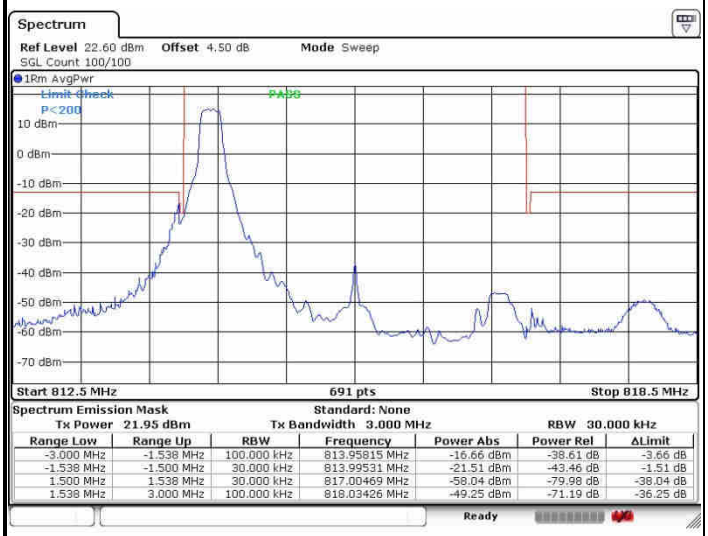
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.95815 MHz	-23.45 dBm	-44.96 dB	-10.45 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-27.69 dBm	-49.20 dB	-7.69 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-27.99 dBm	-49.50 dB	-7.99 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-22.98 dBm	-44.49 dB	-9.98 dB

Ready

Date: 16.JUN.2018 10:06:38

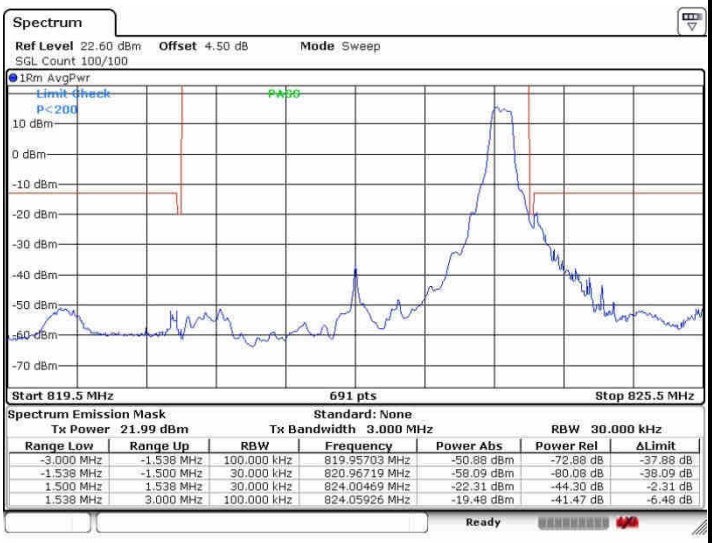
LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



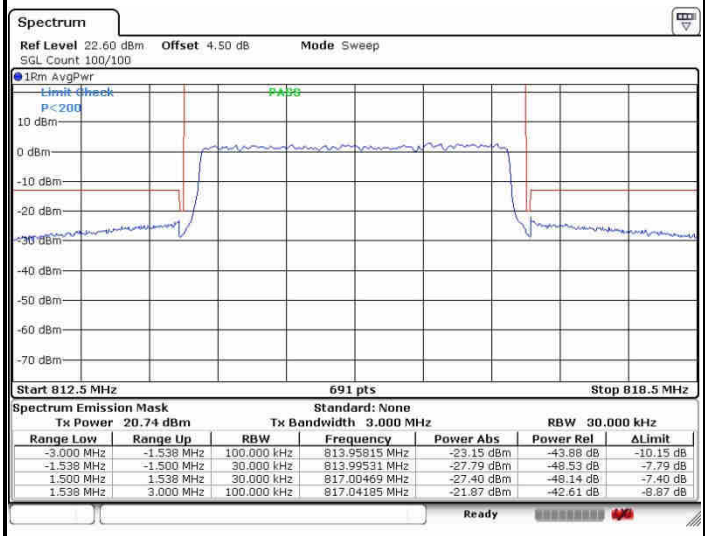
Date: 16.JUN.2018 09:57:09

Highest Band Edge /1 RB



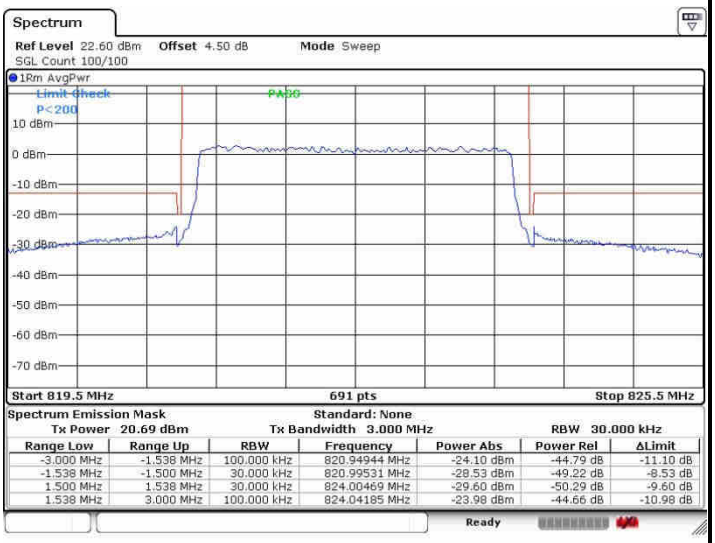
Date: 16.JUN.2018 10:05:08

Lowest Band Edge / Full RB



Date: 16.JUN.2018 09:59:45

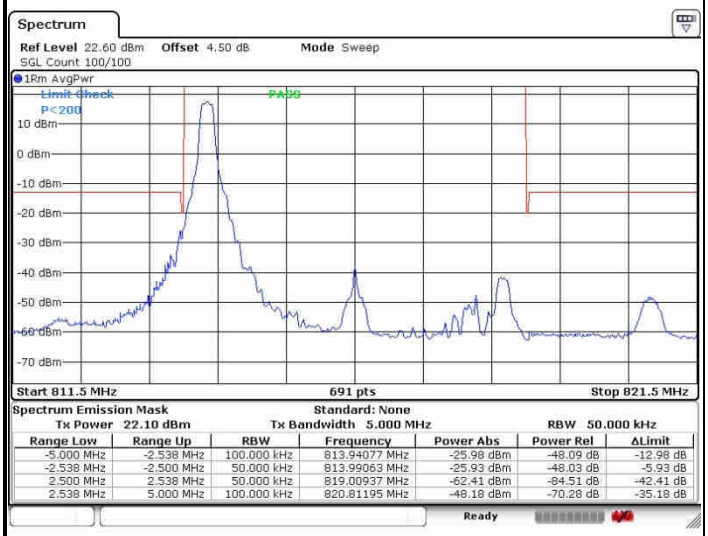
Highest Band Edge / Full RB



Date: 16.JUN.2018 10:06:13

LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1 RB



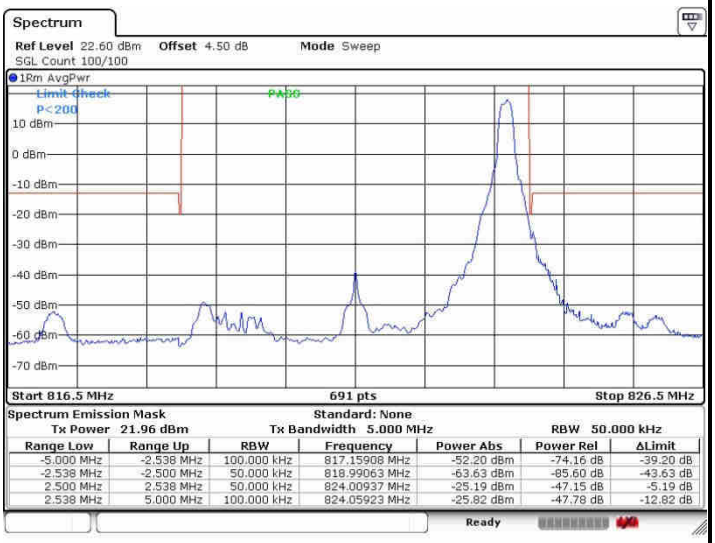
Spectrum Emission Mask — Standard: None

Tx Power 22.10 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.94077 MHz	-25.98 dBm	-48.09 dB	-12.98 dB
-2.538 MHz	-2.500 MHz	50.000 kHz	813.99063 MHz	-25.93 dBm	-48.03 dB	-5.93 dB
2.500 MHz	2.538 MHz	50.000 kHz	819.00937 MHz	-62.41 dBm	-84.51 dB	-42.41 dB
2.538 MHz	5.000 MHz	100.000 kHz	820.81195 MHz	-48.18 dBm	-70.28 dB	-35.18 dB

Date: 16.JUN.2018 10:26:35

Highest Band Edge / 1 RB



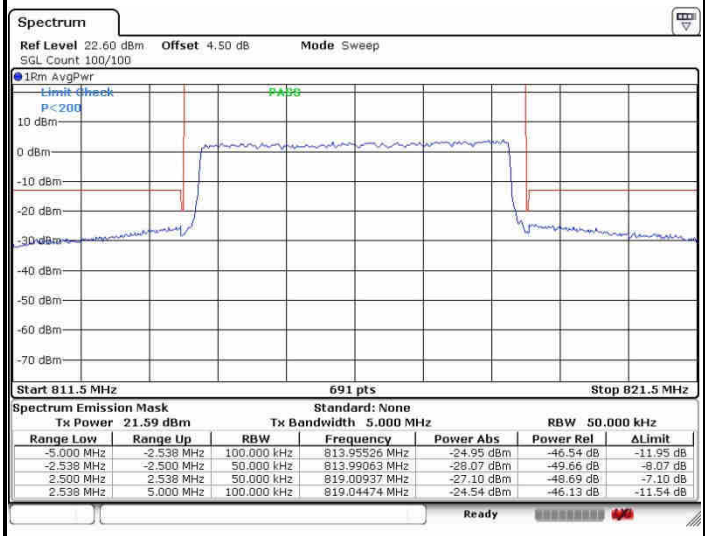
Spectrum Emission Mask — Standard: None

Tx Power 21.96 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	817.15908 MHz	-52.20 dBm	-74.16 dB	-39.20 dB
-2.538 MHz	-2.500 MHz	50.000 kHz	818.99063 MHz	-63.63 dBm	-85.60 dB	-43.63 dB
2.500 MHz	2.538 MHz	50.000 kHz	824.00937 MHz	-25.19 dBm	-47.15 dB	-5.19 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.05923 MHz	-25.82 dBm	-47.78 dB	-12.82 dB

Date: 16.JUN.2018 10:33:07

Lowest Band Edge / Full RB



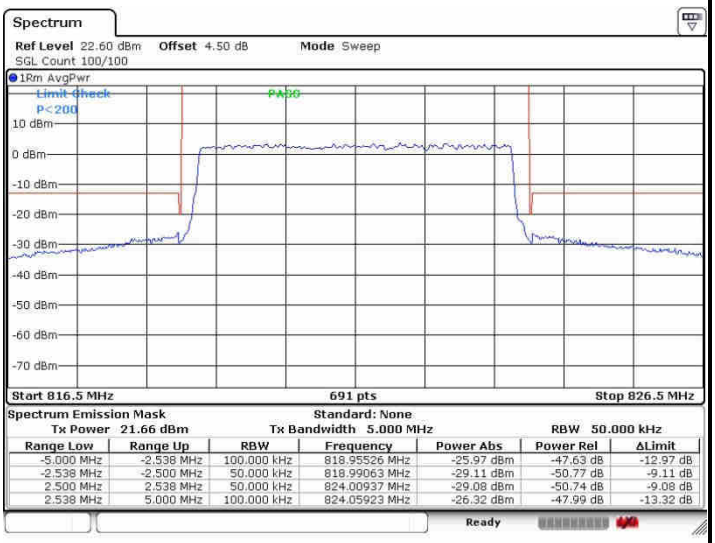
Spectrum Emission Mask — Standard: None

Tx Power 21.59 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.95526 MHz	-24.95 dBm	-46.54 dB	-11.95 dB
-2.538 MHz	-2.500 MHz	50.000 kHz	813.99063 MHz	-28.07 dBm	-49.66 dB	-8.07 dB
2.500 MHz	2.538 MHz	50.000 kHz	819.00937 MHz	-27.10 dBm	-48.69 dB	-7.10 dB
2.538 MHz	5.000 MHz	100.000 kHz	819.04474 MHz	-24.54 dBm	-46.13 dB	-11.54 dB

Date: 16.JUN.2018 10:28:58

Highest Band Edge / Full RB



Spectrum Emission Mask — Standard: None

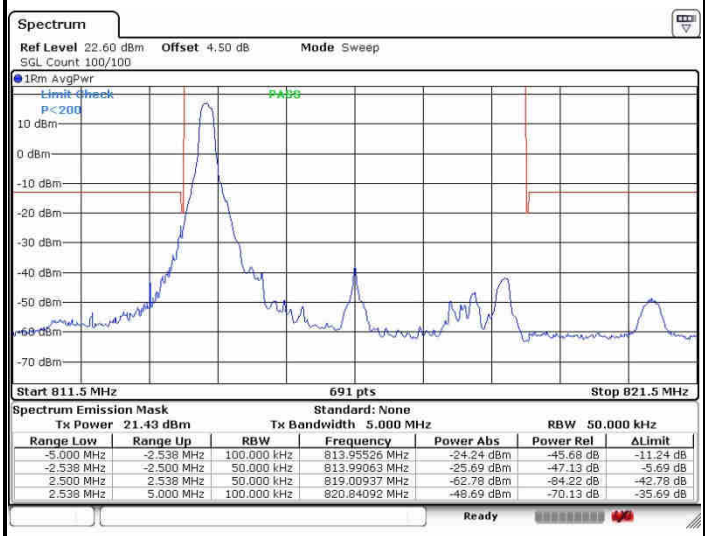
Tx Power 21.66 dBm — Tx Bandwidth 5.000 MHz — RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	818.95526 MHz	-25.97 dBm	-47.63 dB	-12.97 dB
-2.538 MHz	-2.500 MHz	50.000 kHz	818.99063 MHz	-29.11 dBm	-50.77 dB	-9.11 dB
2.500 MHz	2.538 MHz	50.000 kHz	824.00937 MHz	-29.08 dBm	-50.74 dB	-9.08 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.05923 MHz	-26.32 dBm	-47.99 dB	-13.32 dB

Date: 16.JUN.2018 10:30:58

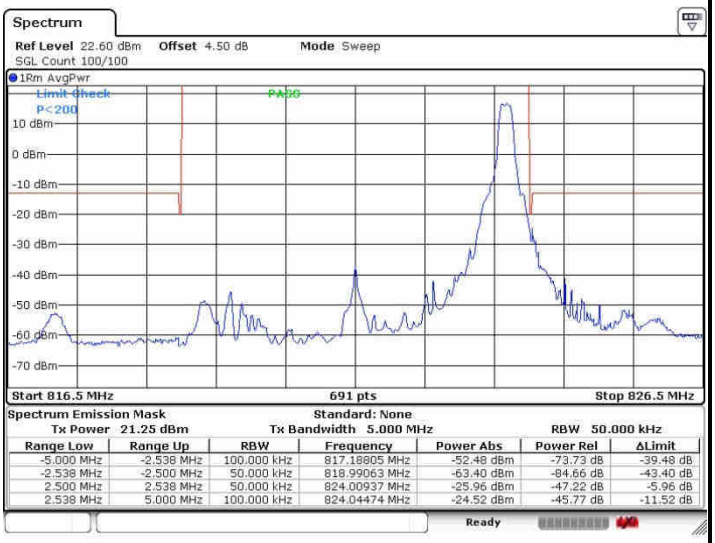
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1RB



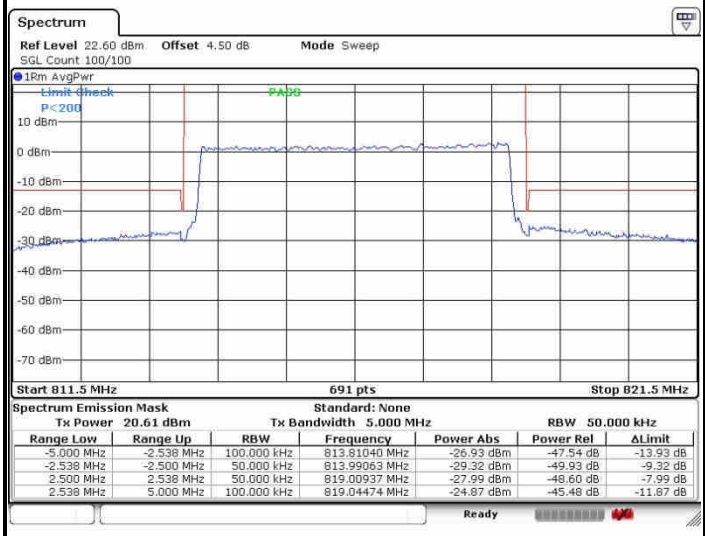
Date: 16.JUN.2018 10:27:03

Highest Band Edge / 1 RB



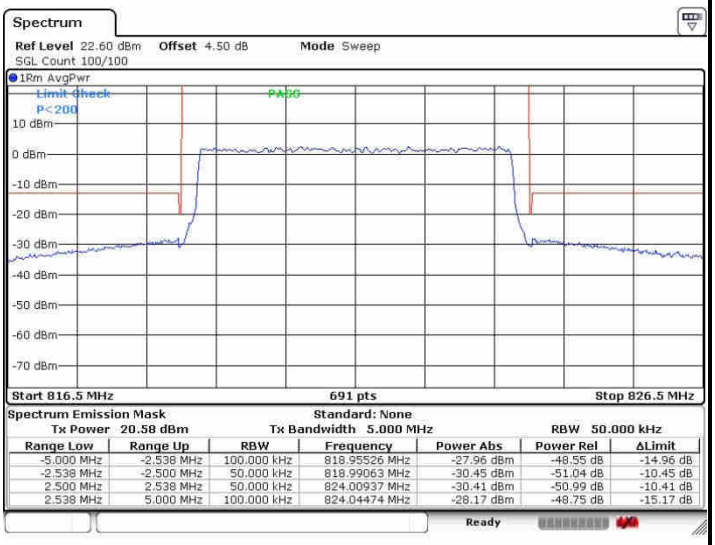
Date: 16.JUN.2018 10:32:51

Lowest Band Edge / Full RB



Date: 16.JUN.2018 10:28:41

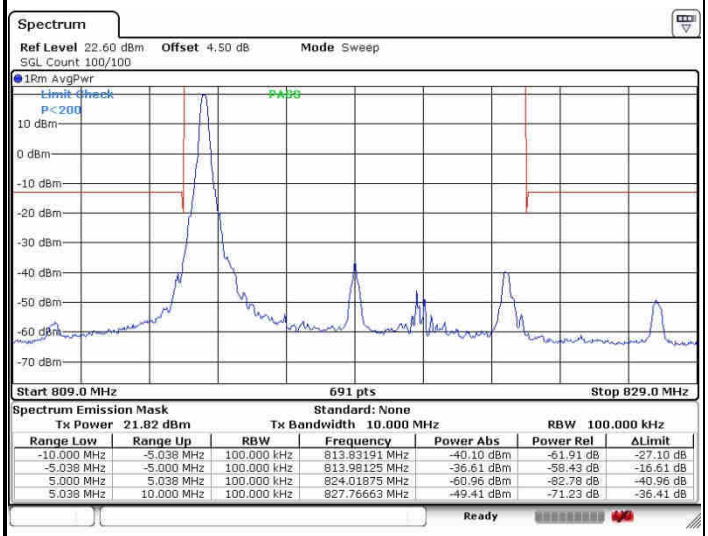
Highest Band Edge / Full RB



Date: 16.JUN.2018 10:31:30

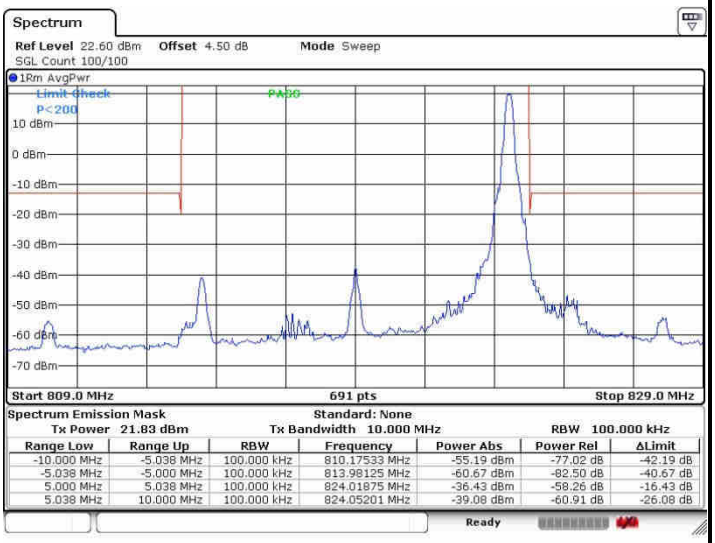
LTE Band 26 / 10MHz / QPSK

Lowest Band Edge / 1 RB



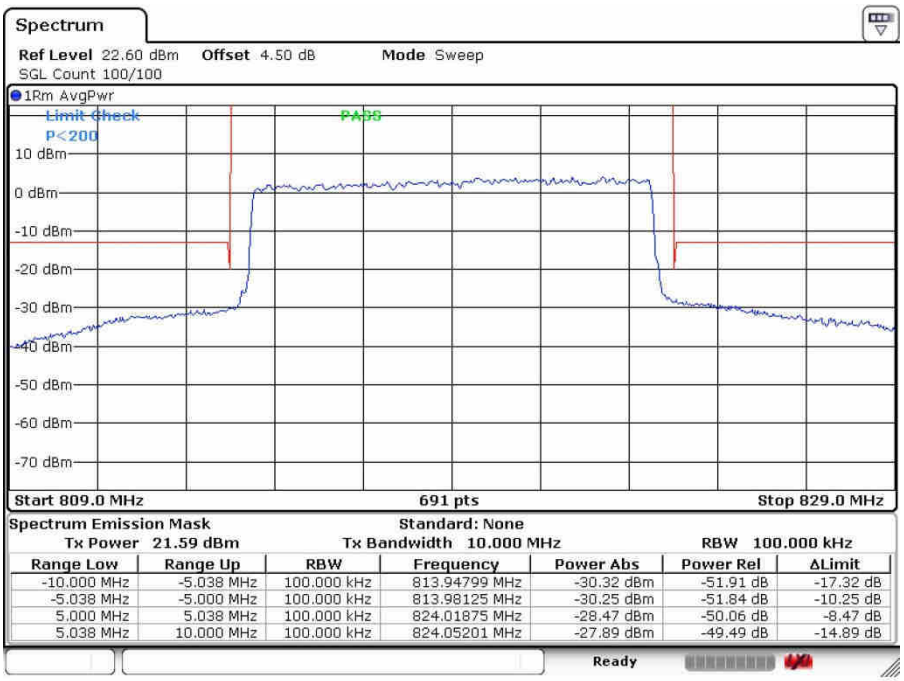
Date: 16.JUN.2018 10:46:56

Highest Band Edge / 1 RB



Date: 16.JUN.2018 10:49:18

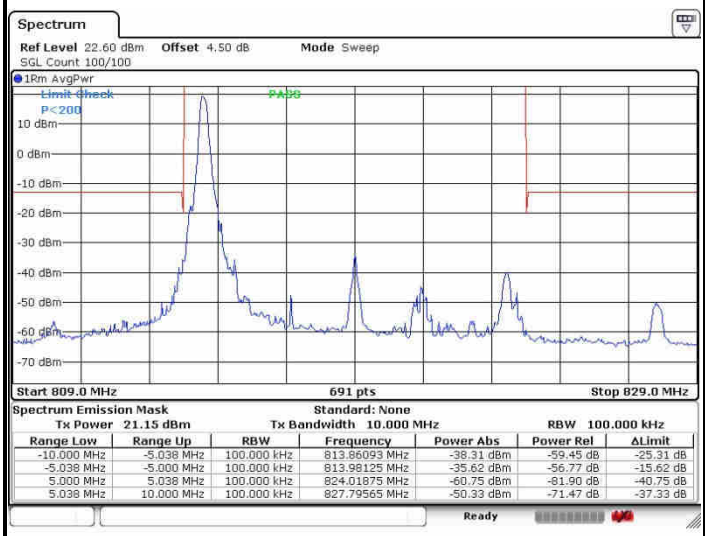
Band Edge / Full RB



Date: 16.JUN.2018 10:49:48

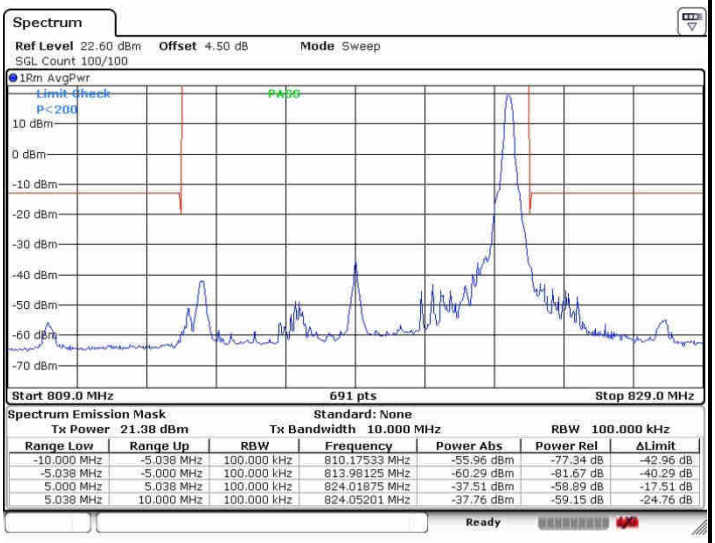
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



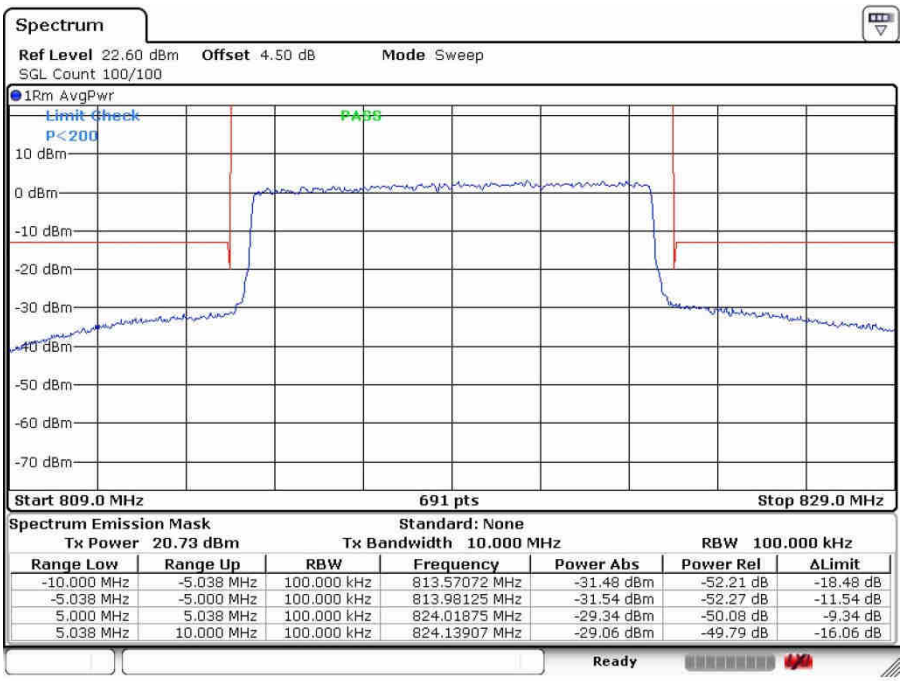
Date: 16.JUN.2018 10:48:05

Highest Band Edge / 1 RB



Date: 16.JUN.2018 10:49:02

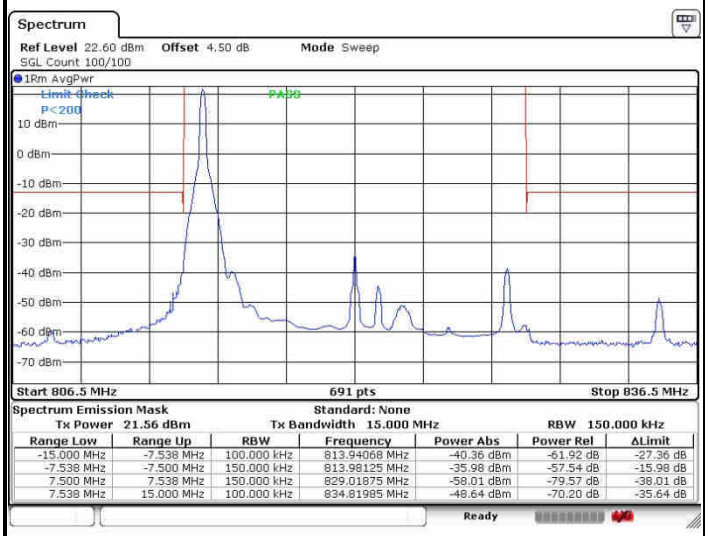
Band Edge / Full RB



Date: 16.JUN.2018 10:50:07

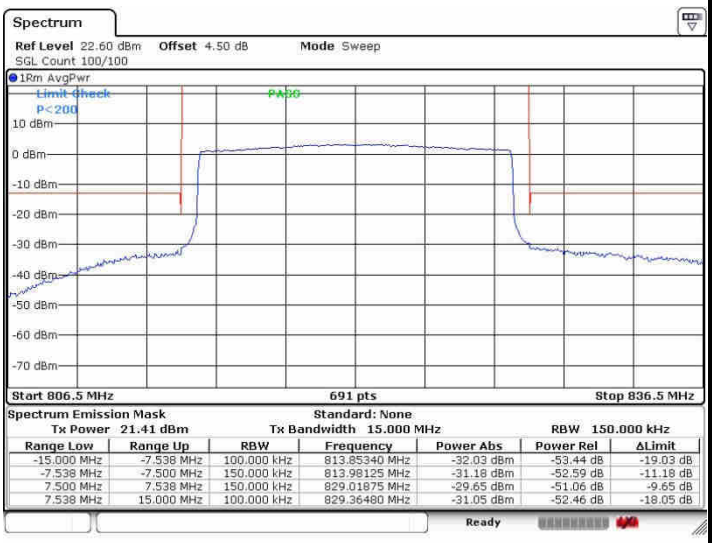
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 16.JUN.2018 11:10:15

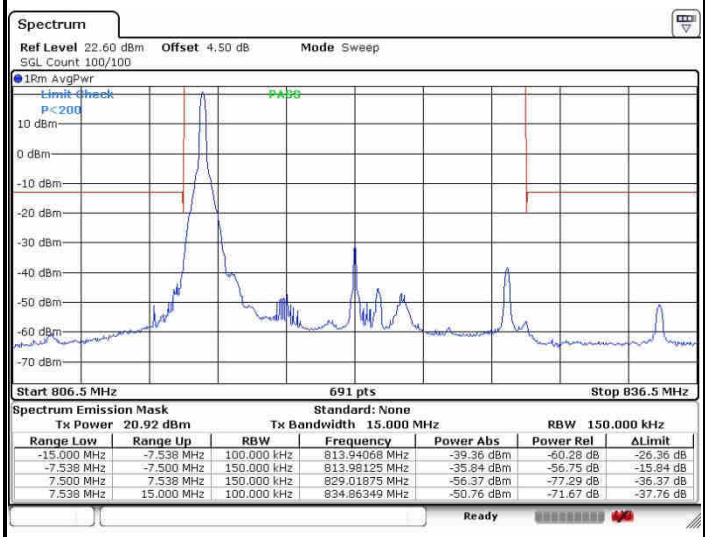
Lowest Band Edge / Full RB



Date: 16.JUN.2018 11:14:14

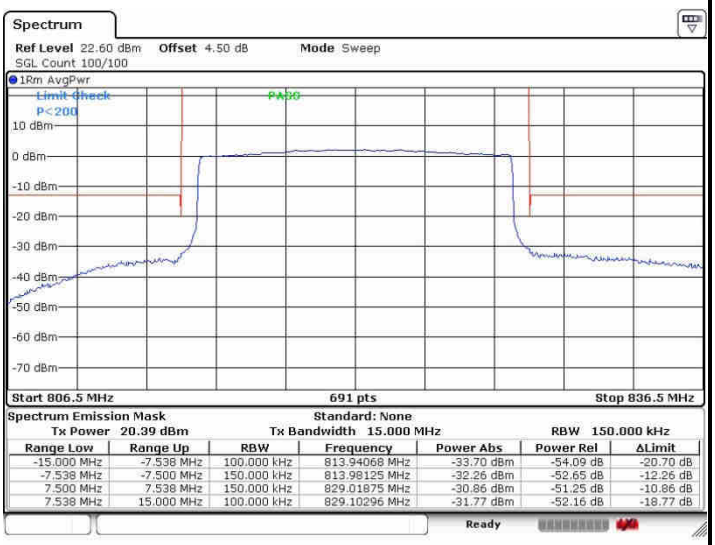
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 16.JUN.2018 11:10:58

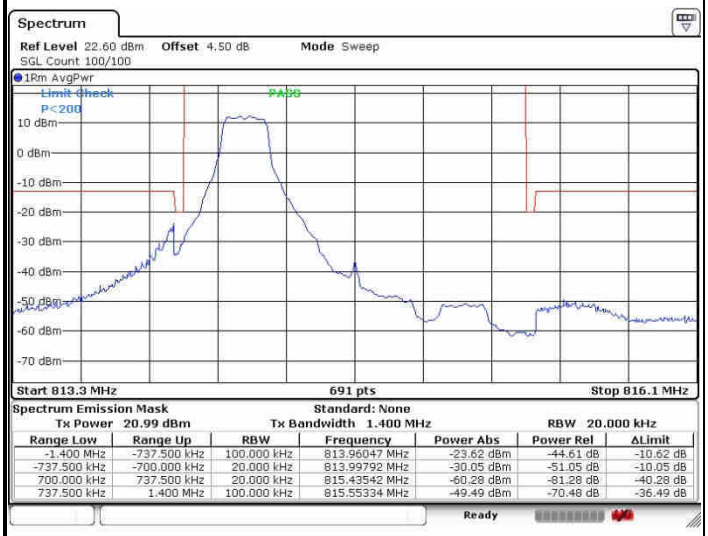
Lowest Band Edge / Full RB



Date: 16.JUN.2018 11:14:51

LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1RB

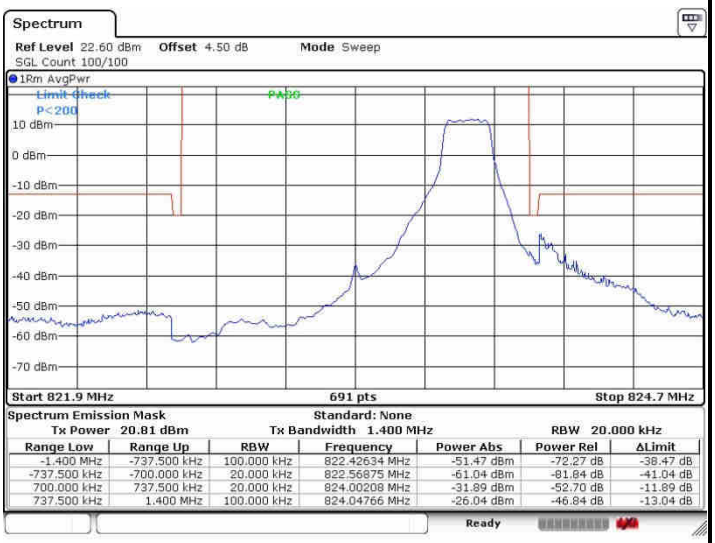


Spectrum Emission Mask Standard: None
Tx Power 20.99 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-23.62 dBm	-44.61 dB	-10.62 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.99792 MHz	-30.05 dBm	-51.05 dB	-10.05 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.43542 MHz	-60.28 dBm	-81.28 dB	-40.28 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.55334 MHz	-49.49 dBm	-70.48 dB	-36.49 dB

Date: 16.JUN.2018 09:33:42

Highest Band Edge / 1RB

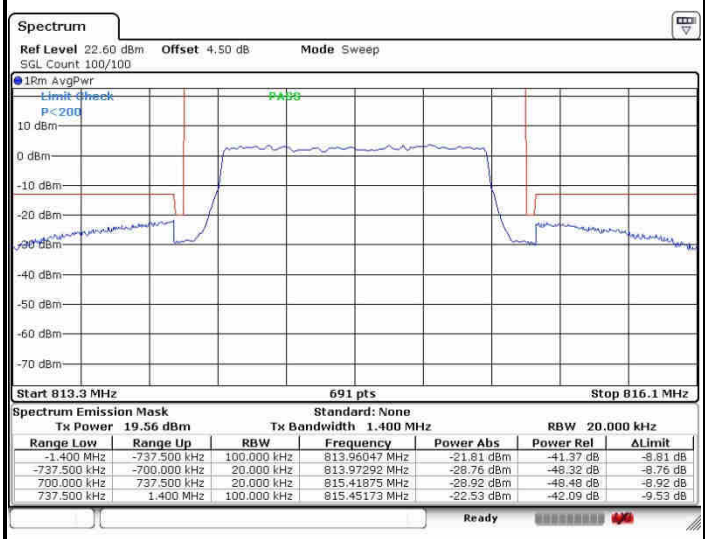


Spectrum Emission Mask Standard: None
Tx Power 20.81 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.42634 MHz	-51.47 dBm	-72.27 dB	-38.47 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.56875 MHz	-61.04 dBm	-81.84 dB	-41.04 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.00208 MHz	-31.89 dBm	-52.70 dB	-11.89 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.04766 MHz	-26.04 dBm	-46.84 dB	-13.04 dB

Date: 16.JUN.2018 09:40:14

Lowest Band Edge / Full RB

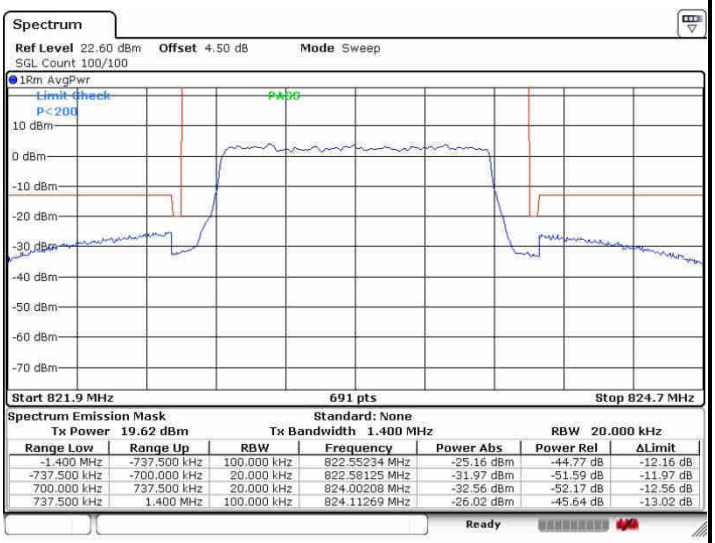


Spectrum Emission Mask Standard: None
Tx Power 19.56 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-21.81 dBm	-41.37 dB	-8.81 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	813.97292 MHz	-28.76 dBm	-48.32 dB	-8.76 dB
700.000 kHz	737.500 kHz	20.000 kHz	815.41875 MHz	-28.92 dBm	-48.48 dB	-8.92 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.45173 MHz	-22.53 dBm	-42.09 dB	-9.53 dB

Date: 16.JUN.2018 09:34:18

Highest Band Edge / Full RB



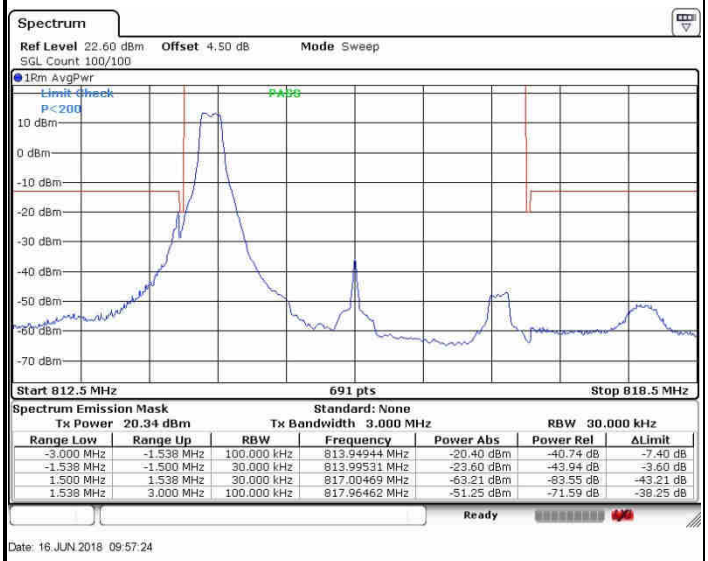
Spectrum Emission Mask Standard: None
Tx Power 19.62 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.55234 MHz	-25.16 dBm	-44.77 dB	-12.16 dB
-737.500 kHz	-700.000 kHz	20.000 kHz	822.58125 MHz	-31.97 dBm	-51.59 dB	-11.97 dB
700.000 kHz	737.500 kHz	20.000 kHz	824.00208 MHz	-32.56 dBm	-52.17 dB	-12.56 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.11269 MHz	-26.02 dBm	-45.64 dB	-13.02 dB

Date: 16.JUN.2018 09:40:45

LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1RB

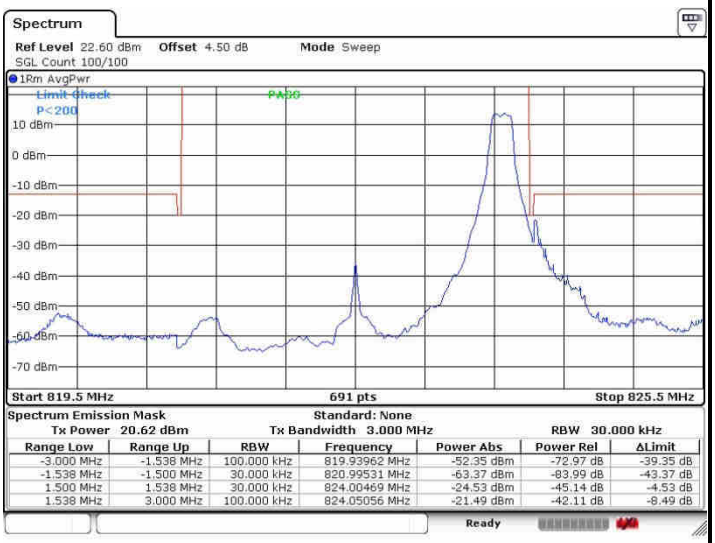


Spectrum Emission Mask Standard: None
Tx Power 20.34 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.94944 MHz	-20.40 dBm	-40.74 dB	-7.40 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-23.60 dBm	-43.94 dB	-3.60 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-63.21 dBm	-83.55 dB	-43.21 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.96462 MHz	-51.25 dBm	-71.59 dB	-38.25 dB

Date: 16.JUN.2018 09:57:24

Highest Band Edge / 1RB

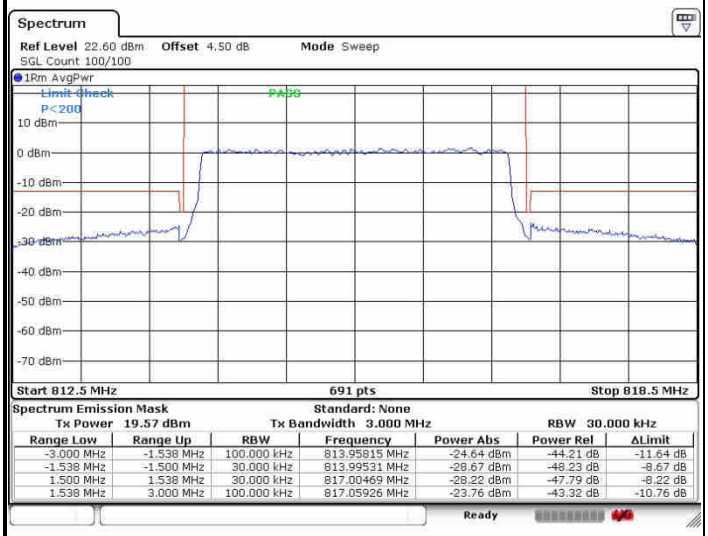


Spectrum Emission Mask Standard: None
Tx Power 20.62 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	819.93962 MHz	-52.35 dBm	-72.97 dB	-39.35 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	820.99531 MHz	-63.37 dBm	-83.99 dB	-43.37 dB
1.500 MHz	1.538 MHz	30.000 kHz	824.00469 MHz	-24.53 dBm	-45.14 dB	-4.53 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.05056 MHz	-21.49 dBm	-42.11 dB	-8.49 dB

Date: 16.JUN.2018 10:05:24

Lowest Band Edge / Full RB

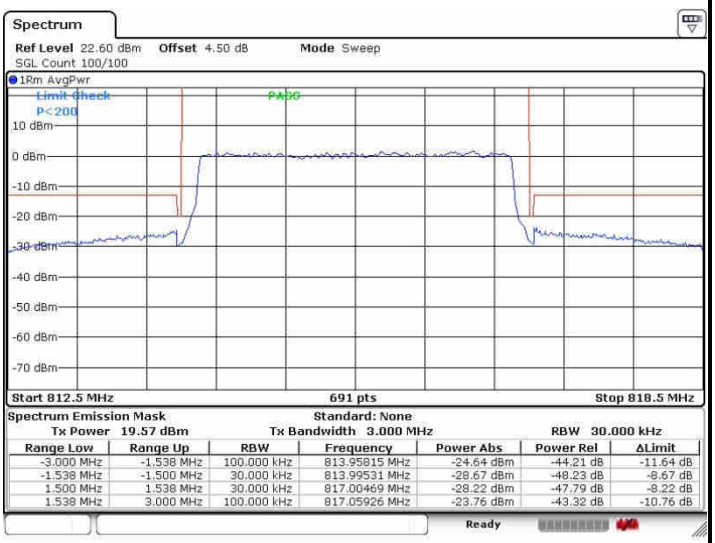


Spectrum Emission Mask Standard: None
Tx Power 19.57 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-24.64 dBm	-44.21 dB	-11.64 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-28.67 dBm	-48.23 dB	-8.67 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-28.22 dBm	-47.79 dB	-8.22 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.05926 MHz	-23.76 dBm	-43.32 dB	-10.76 dB

Date: 16.JUN.2018 10:00:04

Highest Band Edge / Full RB



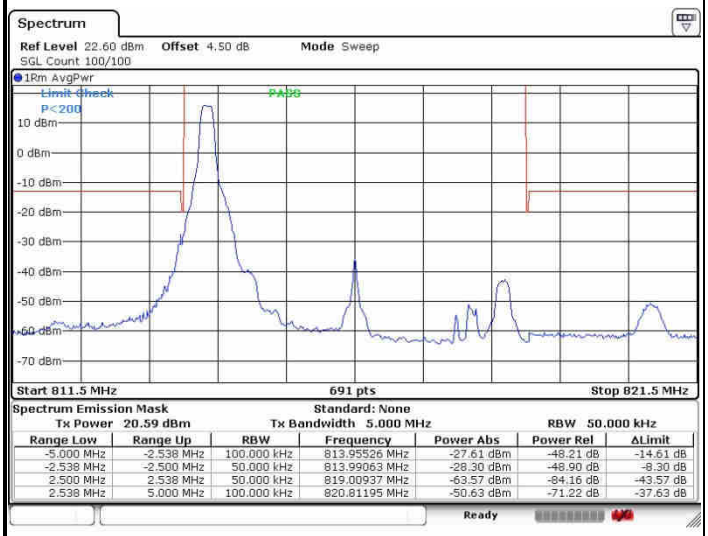
Spectrum Emission Mask Standard: None
Tx Power 19.57 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-24.64 dBm	-44.21 dB	-11.64 dB
-1.538 MHz	-1.500 MHz	30.000 kHz	813.99531 MHz	-28.67 dBm	-48.23 dB	-8.67 dB
1.500 MHz	1.538 MHz	30.000 kHz	817.00469 MHz	-28.22 dBm	-47.79 dB	-8.22 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.05926 MHz	-23.76 dBm	-43.32 dB	-10.76 dB

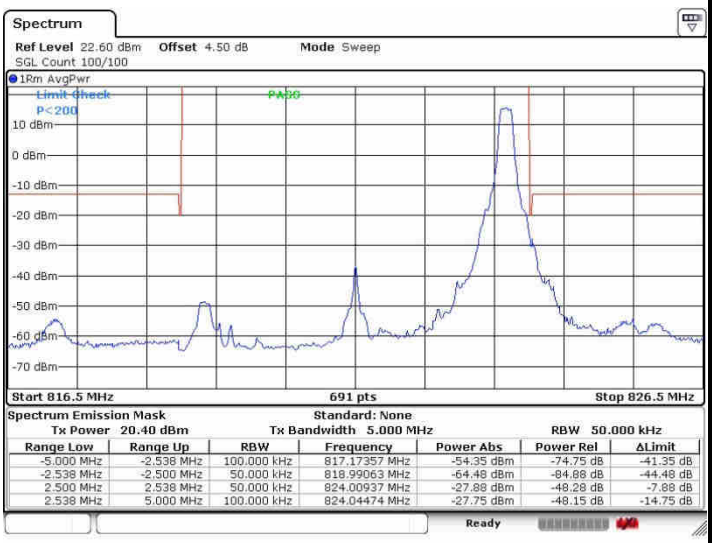
Date: 16.JUN.2018 10:00:04

LTE Band 26 / 5MHz / 64QAM

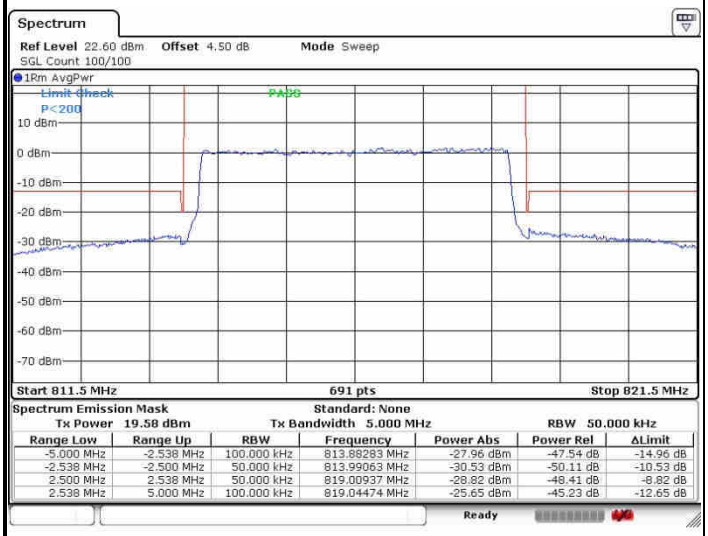
Lowest Band Edge / 1RB



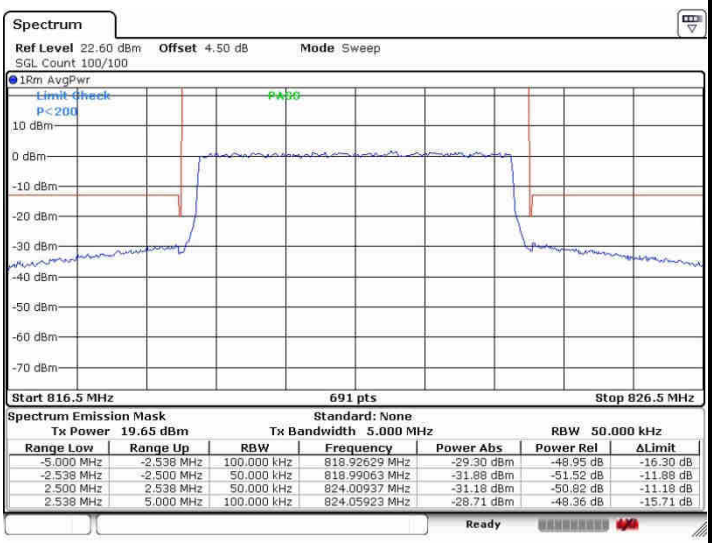
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

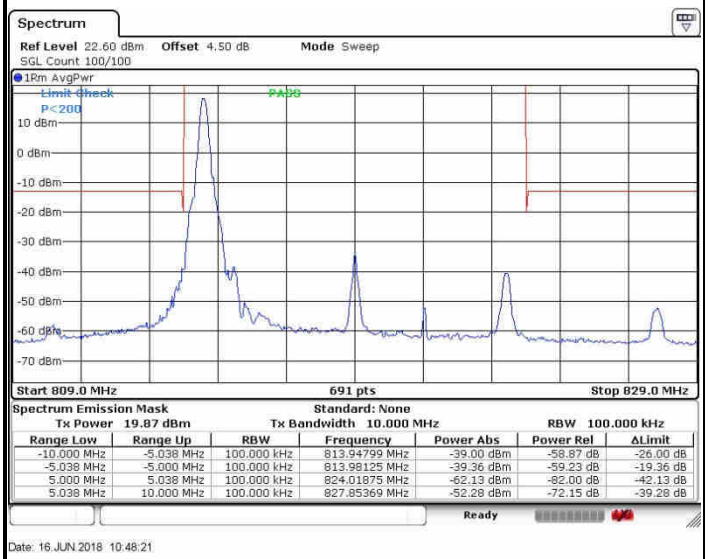


Highest Band Edge / Full RB

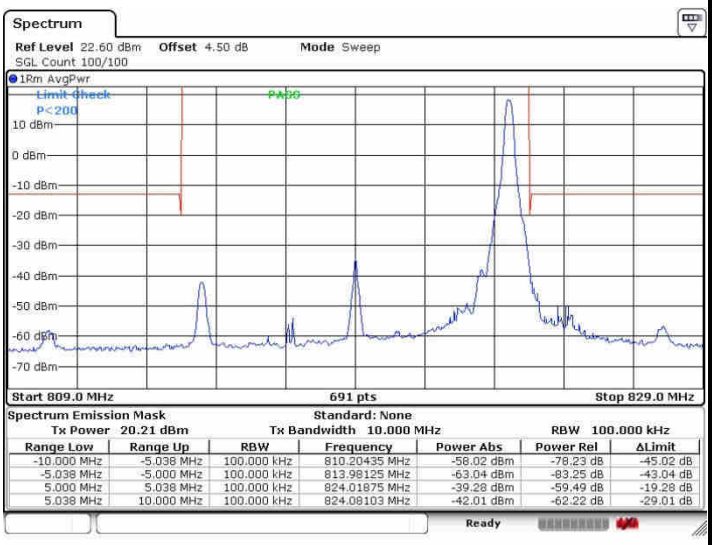


LTE Band 26 / 10MHz / 64QAM

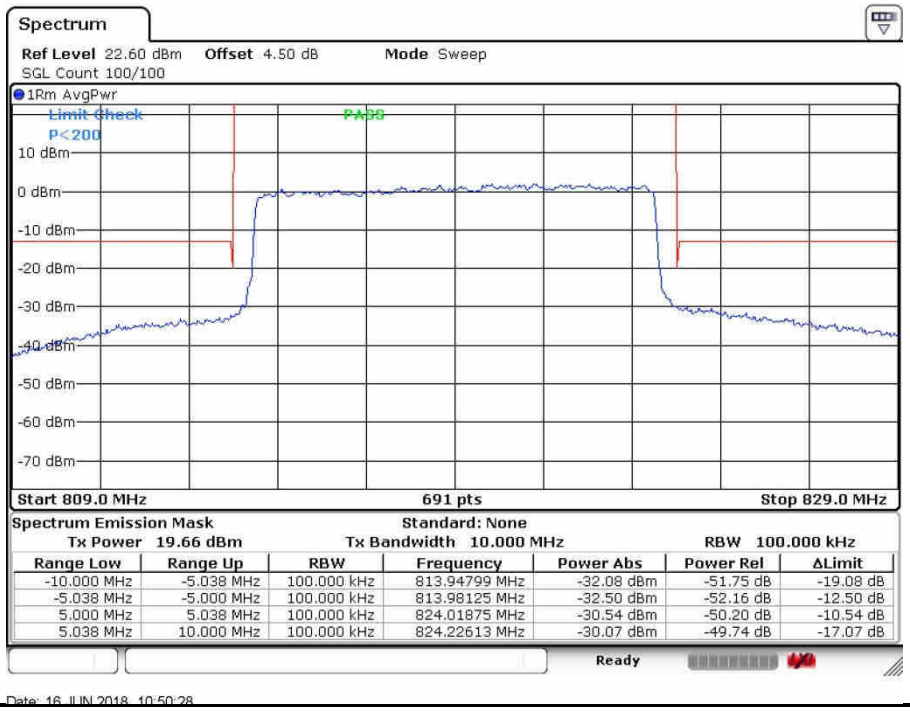
Middle Band Edge / 1 RB0



Middle Band Edge / 1 RBmax

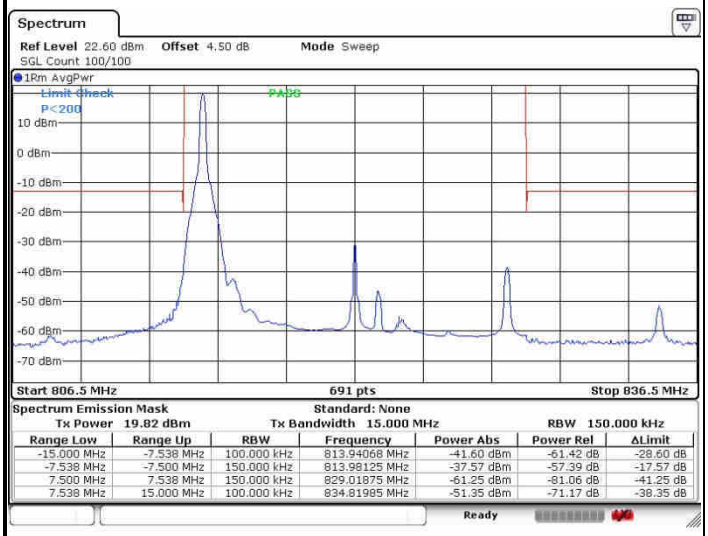


Middle Band Edge / Full RB



LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB0

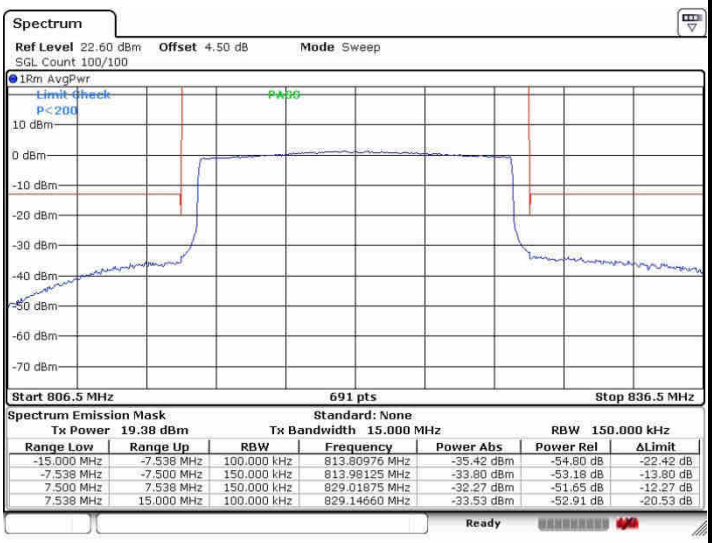


Spectrum Emission Mask Standard: None
Tx Power 19.82 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.94068 MHz	-41.60 dBm	-61.42 dB	-28.60 dB
-7.538 MHz	-7.500 MHz	150.000 kHz	813.98125 MHz	-37.57 dBm	-57.39 dB	-17.57 dB
7.500 MHz	7.538 MHz	150.000 kHz	829.01875 MHz	-61.25 dBm	-81.06 dB	-41.25 dB
7.538 MHz	15.000 MHz	100.000 kHz	834.81985 MHz	-51.35 dBm	-71.17 dB	-38.35 dB

Date: 16.JUN.2018 11:11:33

Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 19.38 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

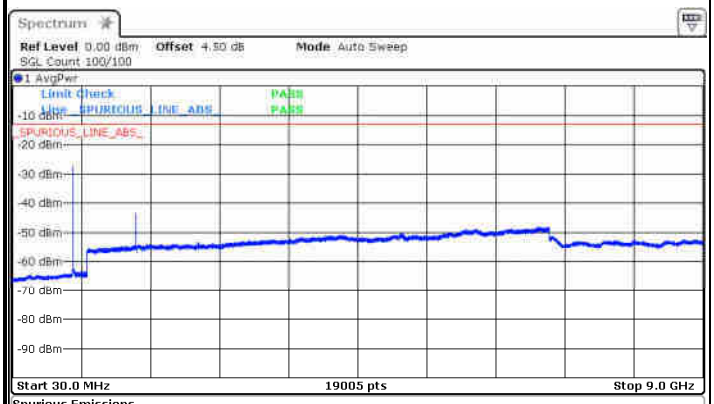
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	813.80976 MHz	-35.42 dBm	-54.80 dB	-22.42 dB
-7.538 MHz	-7.500 MHz	150.000 kHz	813.98125 MHz	-33.80 dBm	-53.18 dB	-13.80 dB
7.500 MHz	7.538 MHz	150.000 kHz	829.01875 MHz	-32.27 dBm	-51.65 dB	-12.27 dB
7.538 MHz	15.000 MHz	100.000 kHz	829.14660 MHz	-33.53 dBm	-52.91 dB	-20.53 dB

Date: 16.JUN.2018 11:15:26

Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

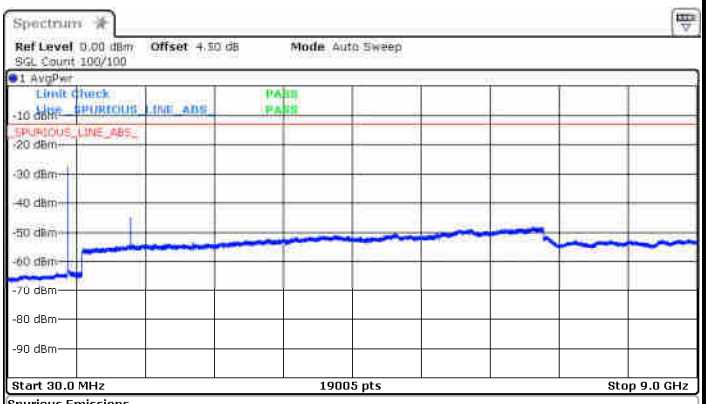


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-27.51 dBm	-14.51 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.43956 MHz	-62.69 dBm	-49.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-43.57 dBm	-30.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-48.12 dBm	-35.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05174 GHz	-51.30 dBm	-38.30 dB

Date: 16.JUN.2018 09:19:33

Lowest Channel / 16QAM

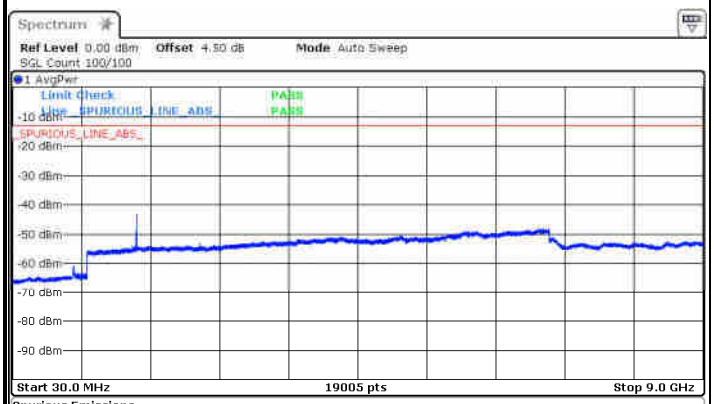


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-27.76 dBm	-14.76 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.43956 MHz	-62.91 dBm	-49.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-44.98 dBm	-31.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85777 GHz	-48.09 dBm	-35.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04974 GHz	-51.37 dBm	-38.37 dB

Date: 16.JUN.2018 09:20:55

Middle Channel / QPSK

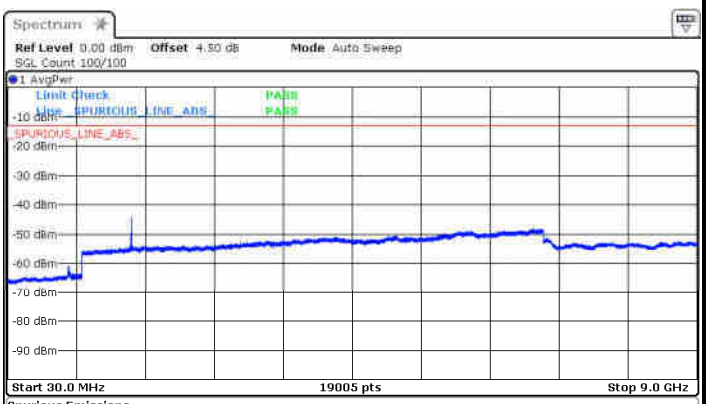


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.41229 MHz	-61.08 dBm	-48.08 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-60.78 dBm	-47.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-43.21 dBm	-30.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86777 GHz	-48.12 dBm	-35.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04874 GHz	-51.19 dBm	-38.19 dB

Date: 16.JUN.2018 09:23:13

Middle Channel / 16QAM



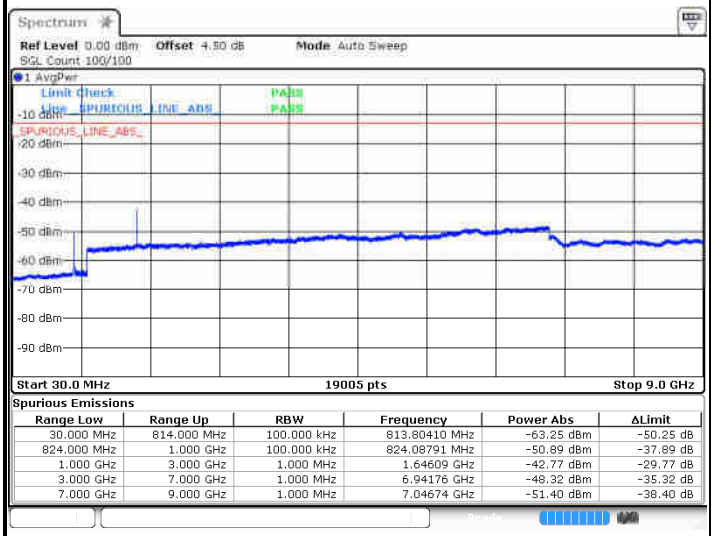
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.02049 MHz	-61.44 dBm	-48.44 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-60.78 dBm	-47.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-44.10 dBm	-31.10 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87027 GHz	-48.26 dBm	-35.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04774 GHz	-51.44 dBm	-38.44 dB

Date: 16.JUN.2018 09:22:42

LTE Band 26 / 1.4MHz

Highest Channel / QPSK

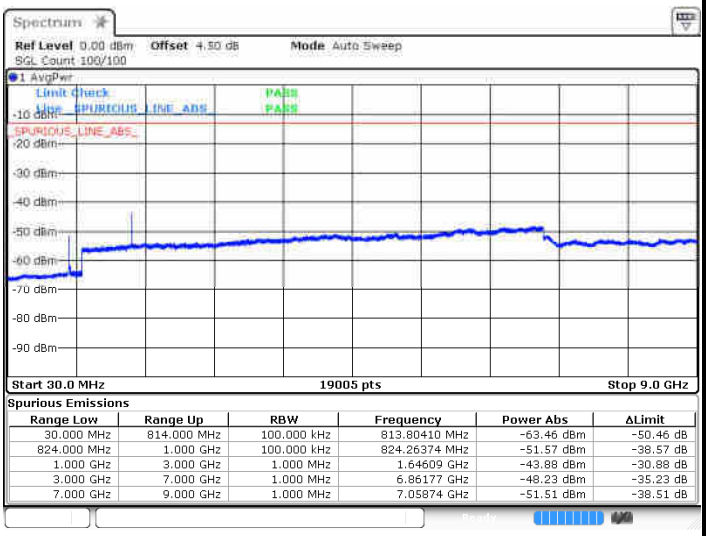


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.25 dBm	-50.25 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-50.89 dBm	-37.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-42.77 dBm	-29.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94176 GHz	-48.32 dBm	-35.32 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04674 GHz	-51.40 dBm	-38.40 dB

Date: 16.JUN.2018 09:23:47

Highest Channel / 16QAM



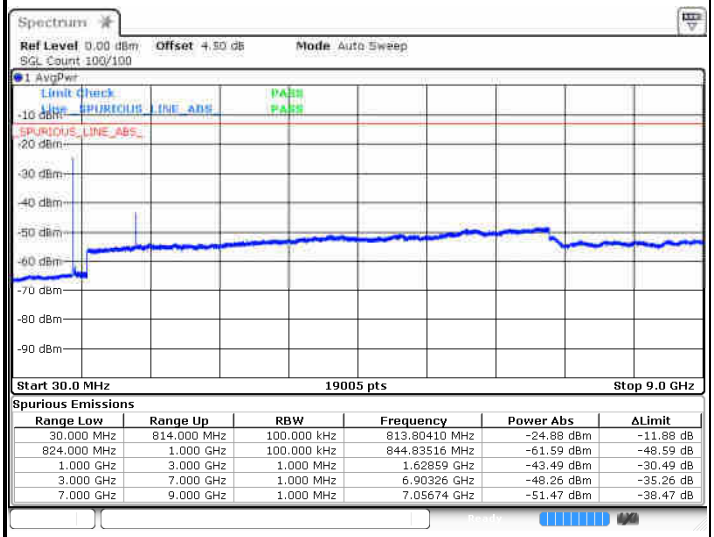
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.46 dBm	-50.46 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.26374 MHz	-51.57 dBm	-38.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-43.88 dBm	-30.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86177 GHz	-48.23 dBm	-35.23 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05874 GHz	-51.51 dBm	-38.51 dB

Date: 16.JUN.2018 09:24:38

LTE Band 26 / 3MHz

Lowest Channel / QPSK

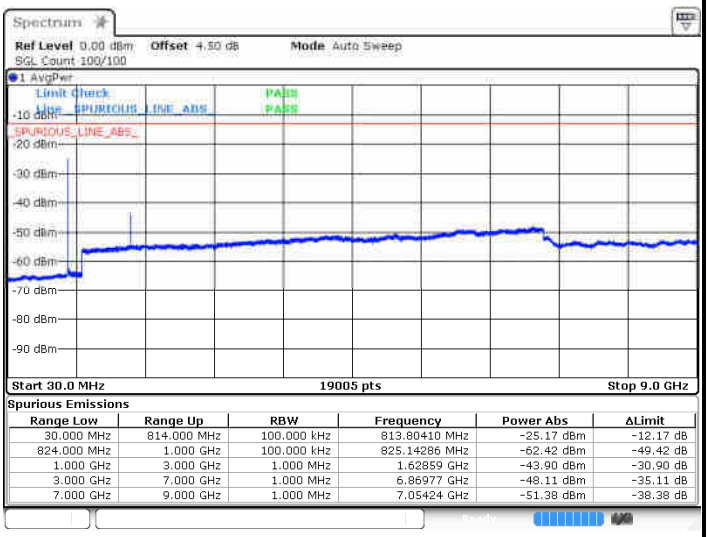


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-24.88 dBm	-11.88 dB
824.000 MHz	1.000 GHz	100.000 kHz	844.83516 MHz	-61.59 dBm	-48.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-43.49 dBm	-30.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90326 GHz	-48.26 dBm	-35.26 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05674 GHz	-51.47 dBm	-38.47 dB

Date: 16.JUN.2018 09:47:46

Lowest Channel / 16QAM



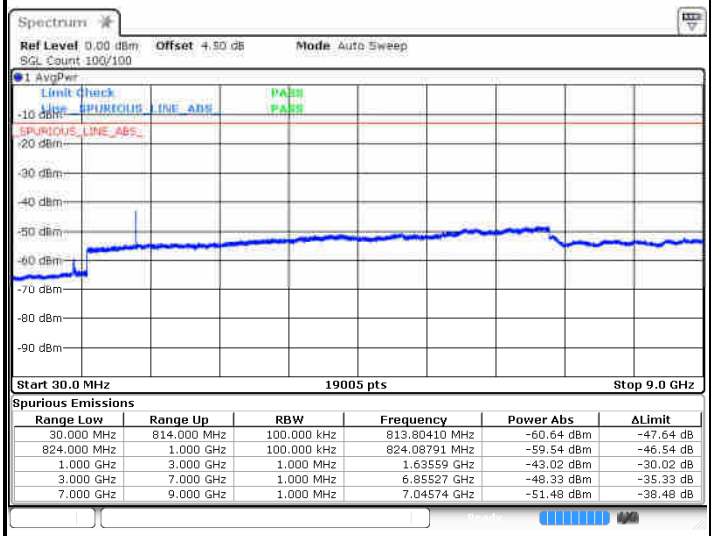
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-25.17 dBm	-12.17 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.14286 MHz	-62.42 dBm	-49.42 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-43.90 dBm	-30.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86977 GHz	-48.11 dBm	-35.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05424 GHz	-51.38 dBm	-38.38 dB

Date: 16.JUN.2018 09:49:14

LTE Band 26 / 3MHz

Middle Channel / QPSK

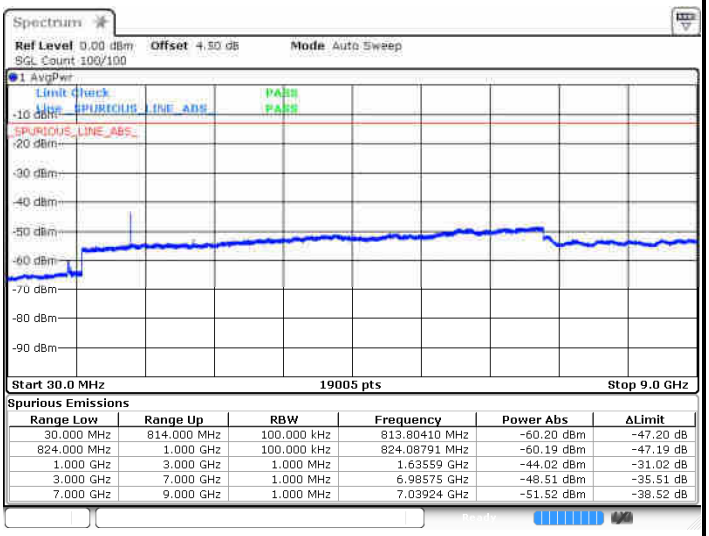


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-60.64 dBm	-47.64 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-59.54 dBm	-46.54 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-43.02 dBm	-30.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85527 GHz	-48.33 dBm	-35.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04574 GHz	-51.48 dBm	-38.48 dB

Date: 16.JUN.2018 09:51:24

Middle Channel / 16QAM

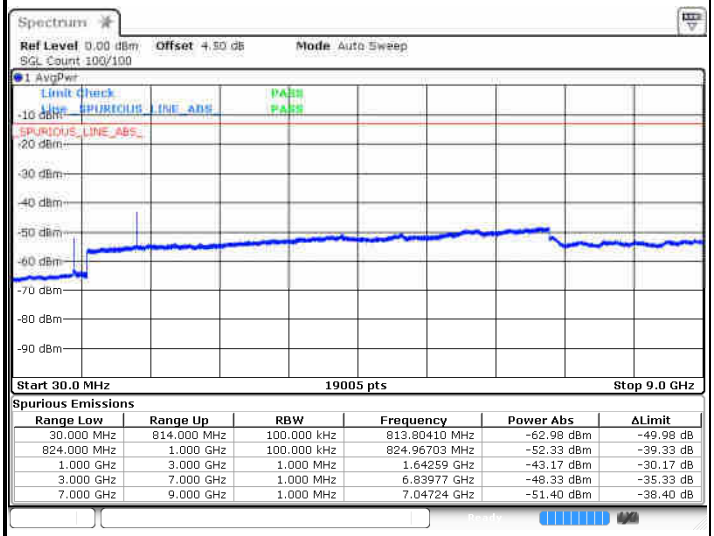


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-60.20 dBm	-47.20 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-60.19 dBm	-47.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-44.02 dBm	-31.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98575 GHz	-48.51 dBm	-35.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03924 GHz	-51.52 dBm	-38.52 dB

Date: 16.JUN.2018 09:50:52

Highest Channel / QPSK

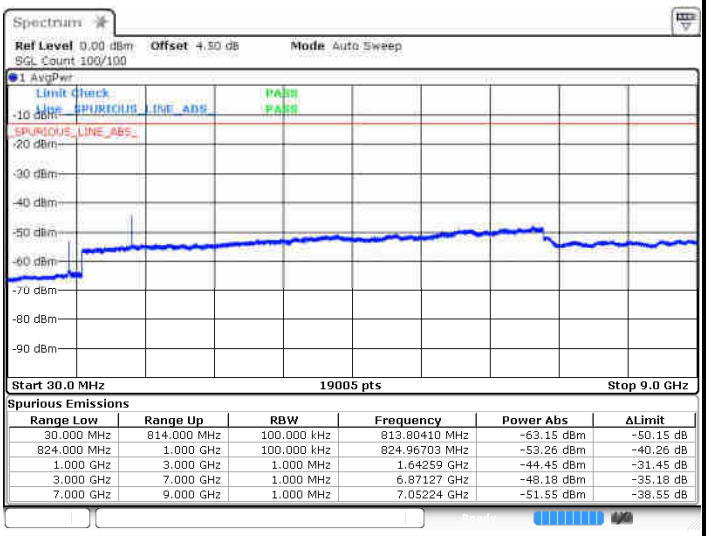


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-62.98 dBm	-49.98 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.96703 MHz	-52.33 dBm	-39.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-43.17 dBm	-30.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83977 GHz	-48.33 dBm	-35.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04724 GHz	-51.40 dBm	-38.40 dB

Date: 16.JUN.2018 09:52:03

Highest Channel / 16QAM



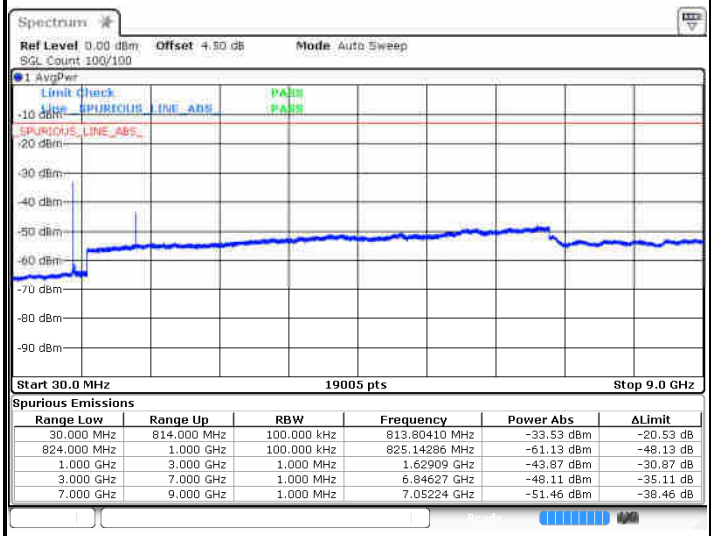
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.15 dBm	-50.15 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.96703 MHz	-53.26 dBm	-40.26 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-44.45 dBm	-31.45 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87127 GHz	-48.18 dBm	-35.18 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05224 GHz	-51.55 dBm	-38.55 dB

Date: 16.JUN.2018 09:52:39

LTE Band 26 / 5MHz

Lowest Channel / QPSK

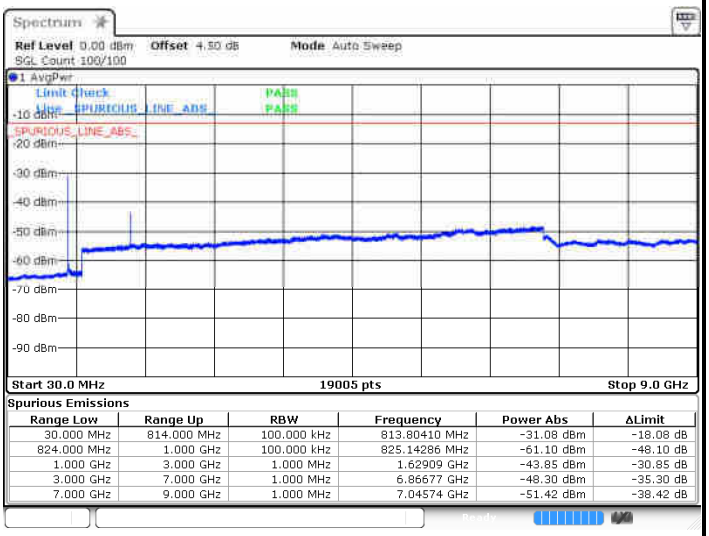


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-33.53 dBm	-20.53 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.14286 MHz	-61.13 dBm	-48.13 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-43.87 dBm	-30.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84627 GHz	-48.11 dBm	-35.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05224 GHz	-51.46 dBm	-38.46 dB

Date: 16.JUN.2018 10:15:31

Lowest Channel / 16QAM

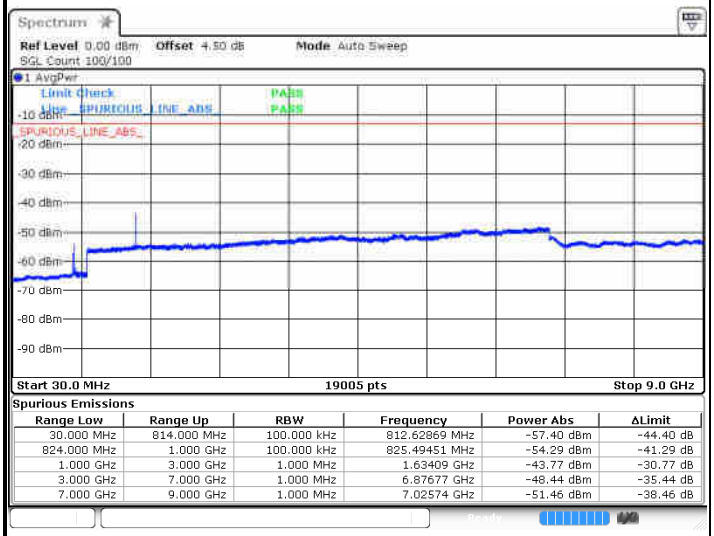


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-31.08 dBm	-18.08 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.14286 MHz	-61.10 dBm	-48.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-43.85 dBm	-30.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86677 GHz	-48.30 dBm	-35.30 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04574 GHz	-51.42 dBm	-38.42 dB

Date: 16.JUN.2018 10:16:26

Middle Channel / QPSK

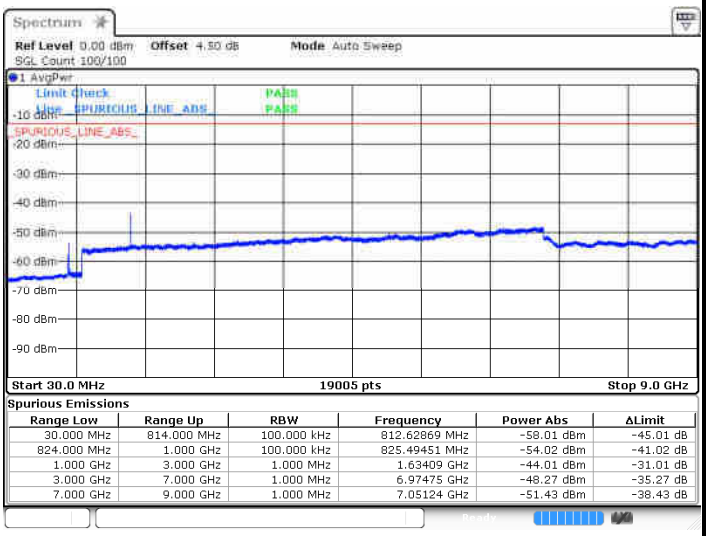


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.62869 MHz	-57.40 dBm	-44.40 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.49451 MHz	-54.29 dBm	-41.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-43.77 dBm	-30.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87677 GHz	-48.44 dBm	-35.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02574 GHz	-51.46 dBm	-38.46 dB

Date: 16.JUN.2018 10:20:50

Middle Channel / 16QAM



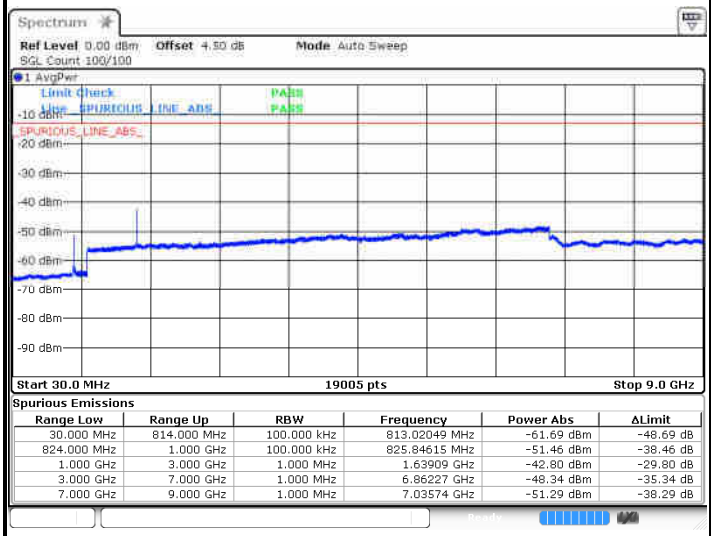
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.62869 MHz	-58.01 dBm	-45.01 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.49451 MHz	-54.02 dBm	-41.02 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-44.01 dBm	-31.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97475 GHz	-48.27 dBm	-35.27 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05124 GHz	-51.43 dBm	-38.43 dB

Date: 16.JUN.2018 10:21:32

LTE Band 26 / 5MHz

Highest Channel / QPSK

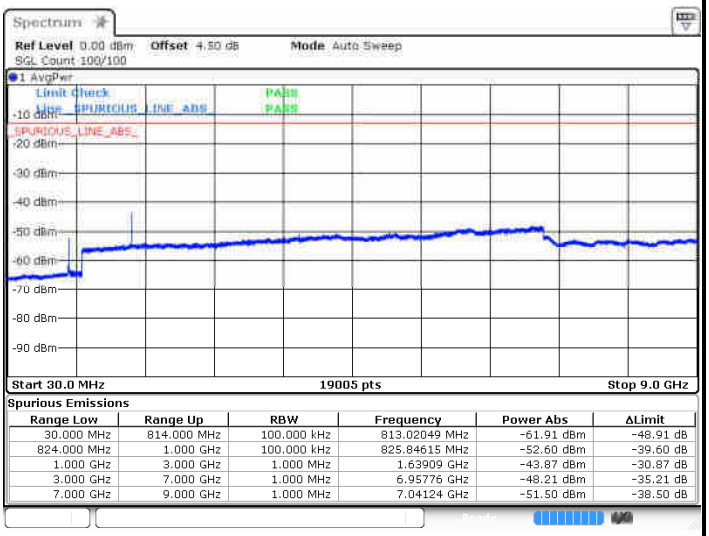


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.02049 MHz	-61.69 dBm	-48.69 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.84615 MHz	-51.46 dBm	-38.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-42.80 dBm	-29.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86227 GHz	-48.34 dBm	-35.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03574 GHz	-51.29 dBm	-38.29 dB

Date: 16.JUN.2018 10:22:52

Highest Channel / 16QAM



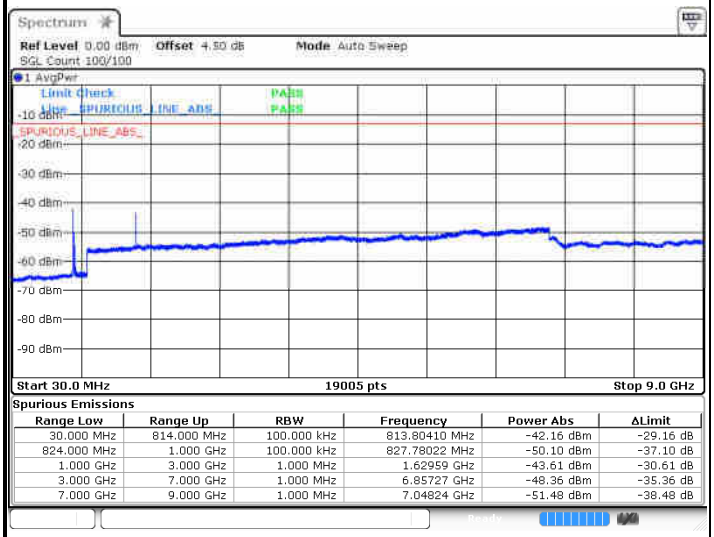
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.02049 MHz	-61.91 dBm	-48.91 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.84615 MHz	-52.60 dBm	-39.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-43.87 dBm	-30.87 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95776 GHz	-48.21 dBm	-35.21 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04124 GHz	-51.50 dBm	-38.50 dB

Date: 16.JUN.2018 10:23:28

LTE Band 26 / 10MHz

Middle Channel / QPSK

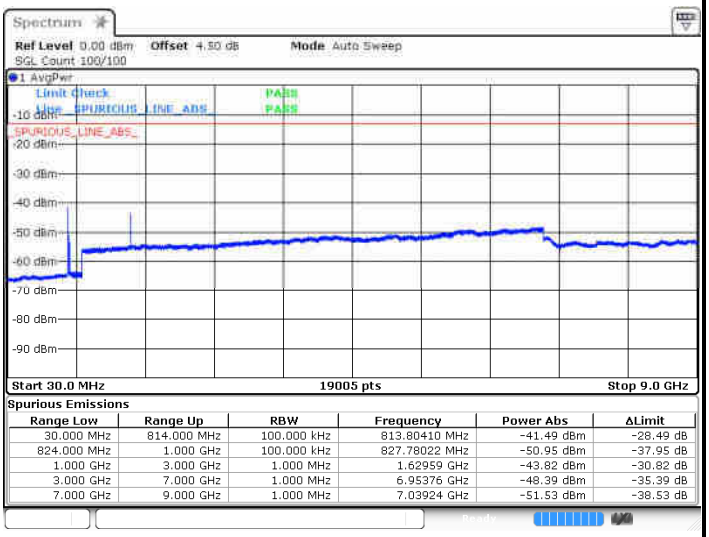


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-42.16 dBm	-29.16 dB
824.000 MHz	1.000 GHz	100.000 kHz	827.78022 MHz	-50.10 dBm	-37.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-43.61 dBm	-30.61 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85727 GHz	-48.36 dBm	-35.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04824 GHz	-51.48 dBm	-38.48 dB

Date: 16.JUN.2018 10:39:07

Middle Channel / 16QAM



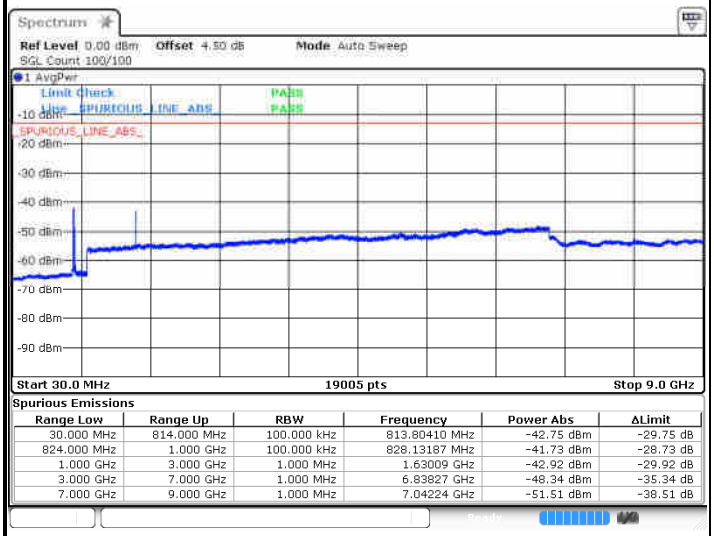
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-41.49 dBm	-28.49 dB
824.000 MHz	1.000 GHz	100.000 kHz	827.78022 MHz	-50.95 dBm	-37.95 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-43.82 dBm	-30.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95376 GHz	-48.39 dBm	-35.39 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03924 GHz	-51.53 dBm	-38.53 dB

Date: 16.JUN.2018 10:41:06

LTE Band 26 / 15MHz

Lowest Channel / QPSK

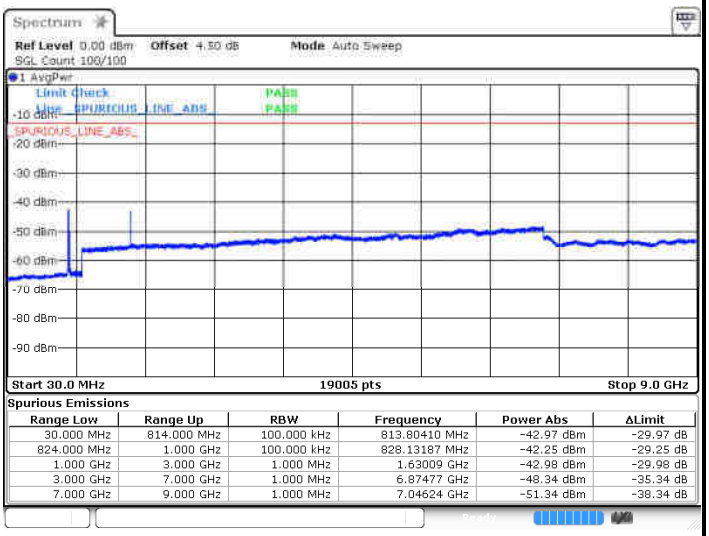


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-42.75 dBm	-29.75 dB
824.000 MHz	1.000 GHz	100.000 kHz	828.13187 MHz	-41.73 dBm	-28.73 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-42.92 dBm	-29.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83827 GHz	-48.34 dBm	-35.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04224 GHz	-51.51 dBm	-38.51 dB

Date: 16.JUN.2018 11:01:53

Lowest Channel / 16QAM



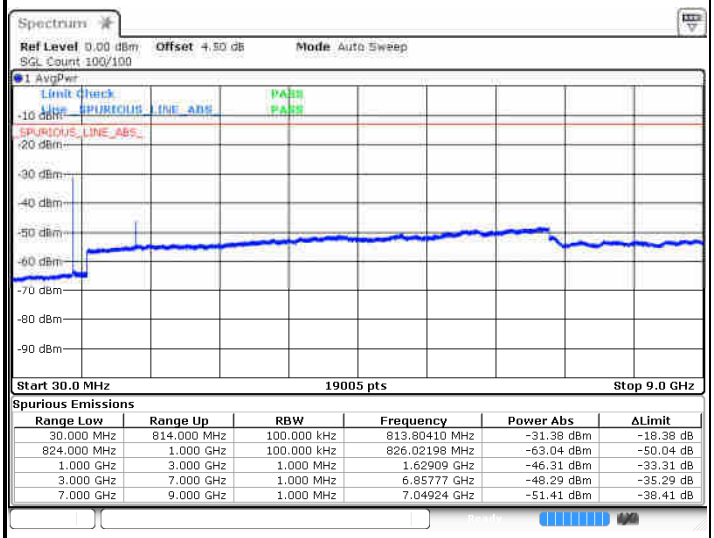
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-42.97 dBm	-29.97 dB
824.000 MHz	1.000 GHz	100.000 kHz	828.13187 MHz	-42.25 dBm	-29.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-42.98 dBm	-29.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87477 GHz	-48.34 dBm	-35.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04624 GHz	-51.34 dBm	-38.34 dB

Date: 16.JUN.2018 11:02:26

LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM

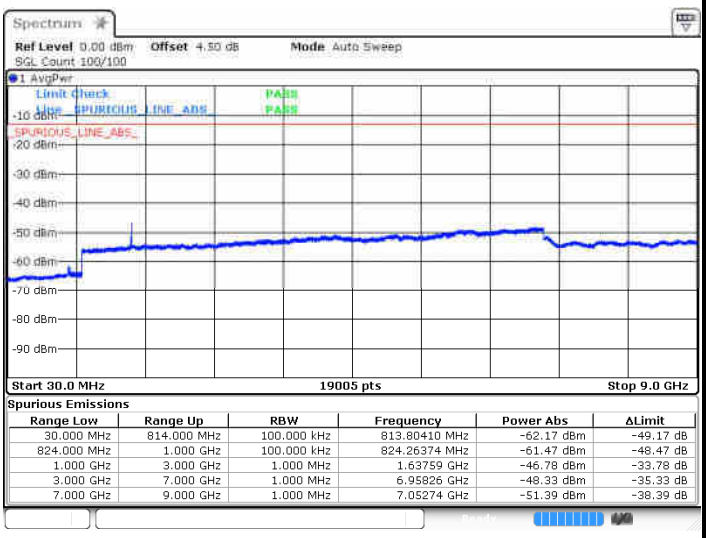


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-31.38 dBm	-18.38 dB
824.000 MHz	1.000 GHz	100.000 kHz	826.02198 MHz	-63.04 dBm	-50.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-46.31 dBm	-33.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85777 GHz	-48.29 dBm	-35.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04924 GHz	-51.41 dBm	-38.41 dB

Date: 16.JUN.2018 09:21:36

Middle Channel / 64QAM

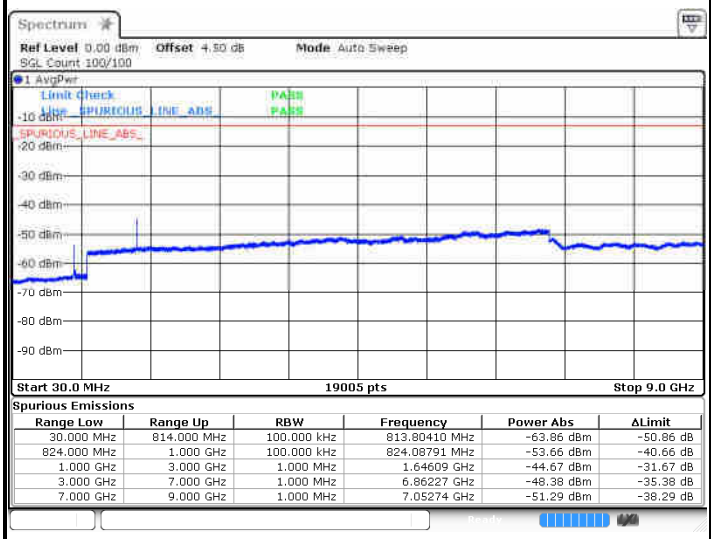


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-62.17 dBm	-49.17 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.26374 MHz	-61.47 dBm	-48.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-46.78 dBm	-33.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95826 GHz	-48.33 dBm	-35.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05274 GHz	-51.39 dBm	-38.39 dB

Date: 16.JUN.2018 09:22:10

Highest Channel / 64QAM



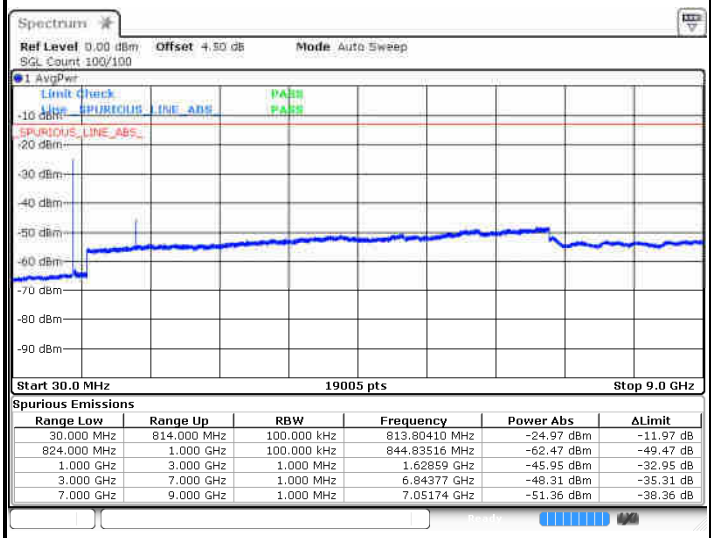
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.86 dBm	-50.86 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-53.66 dBm	-40.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-44.67 dBm	-31.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86227 GHz	-48.38 dBm	-35.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05274 GHz	-51.29 dBm	-38.29 dB

Date: 16.JUN.2018 09:25:15

LTE Band 26 / 3MHz

Lowest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-24.97 dBm	-11.97 dB
824.000 MHz	1.000 GHz	100.000 kHz	844.83516 MHz	-62.47 dBm	-49.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-45.95 dBm	-32.95 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84377 GHz	-48.31 dBm	-35.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05174 GHz	-51.36 dBm	-38.36 dB

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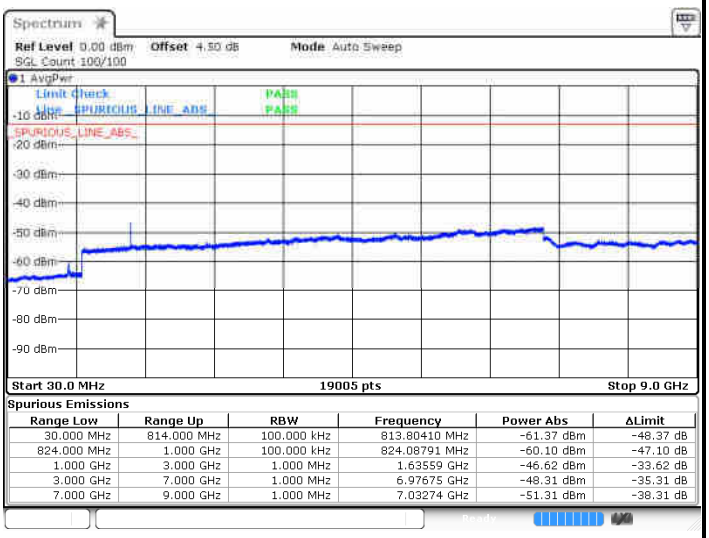
Middle Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-61.37 dBm	-48.37 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.08791 MHz	-60.10 dBm	-47.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-46.62 dBm	-33.62 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97675 GHz	-48.31 dBm	-35.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03274 GHz	-51.31 dBm	-38.31 dB

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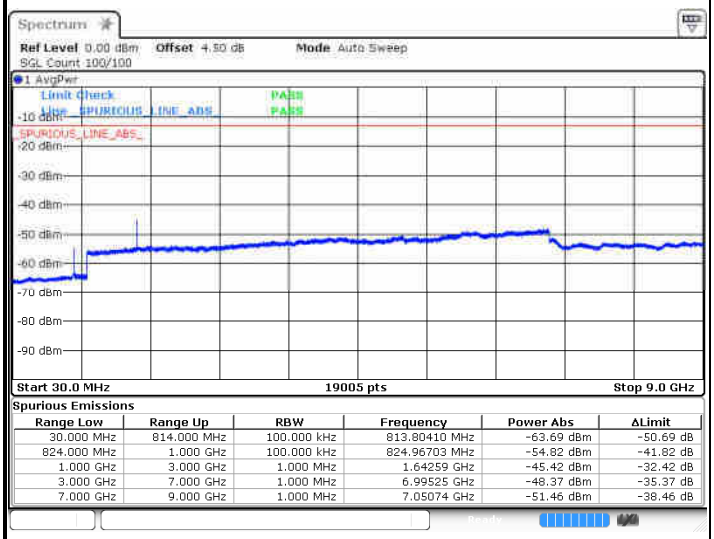
Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.69 dBm	-50.69 dB
824.000 MHz	1.000 GHz	100.000 kHz	824.96703 MHz	-54.82 dBm	-41.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-45.42 dBm	-32.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-48.37 dBm	-35.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05074 GHz	-51.46 dBm	-38.46 dB

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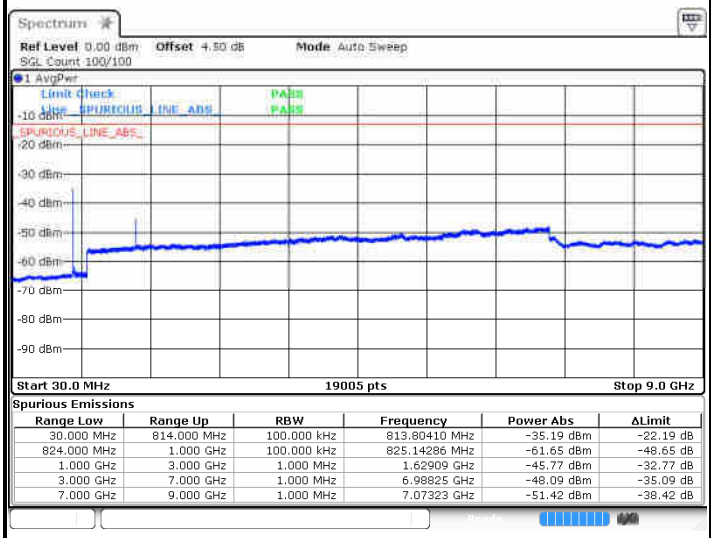
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-35.19 dBm	-22.19 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.14286 MHz	-61.65 dBm	-48.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-45.77 dBm	-32.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98825 GHz	-48.09 dBm	-35.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.07323 GHz	-51.42 dBm	-38.42 dB

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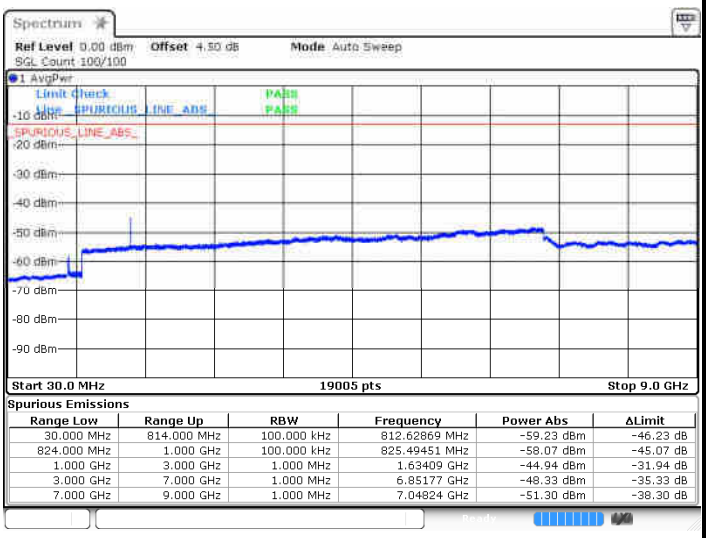
Middle Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.62869 MHz	-59.23 dBm	-46.23 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.49451 MHz	-58.07 dBm	-45.07 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-44.94 dBm	-31.94 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85177 GHz	-48.33 dBm	-35.33 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04824 GHz	-51.30 dBm	-38.30 dB

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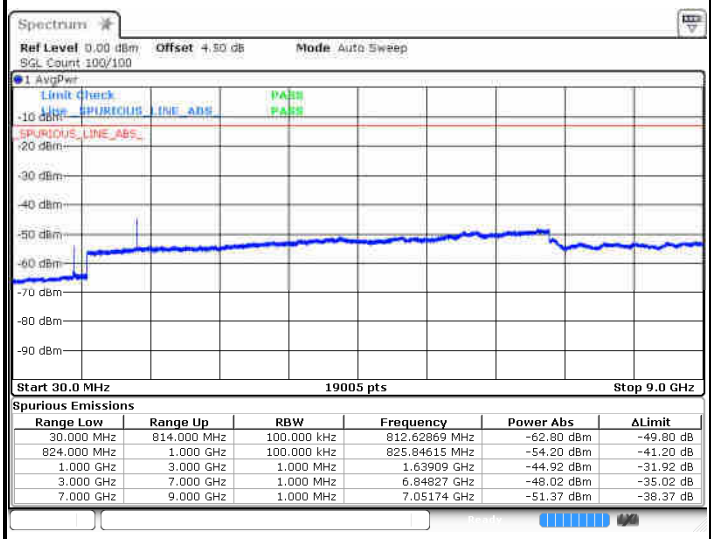
Highest Channel / 64QAM



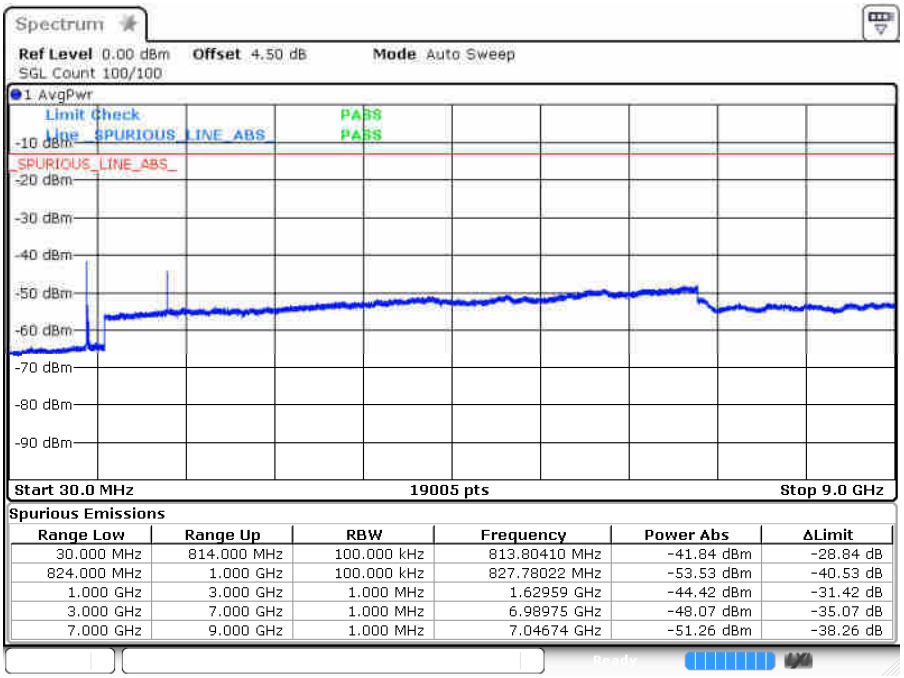
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.62869 MHz	-62.80 dBm	-49.80 dB
824.000 MHz	1.000 GHz	100.000 kHz	825.84615 MHz	-54.20 dBm	-41.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-44.92 dBm	-31.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84827 GHz	-48.02 dBm	-35.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05174 GHz	-51.37 dBm	-38.37 dB

Date: 16.JUN.2018 10:24:12

LTE Band 26 / 10MHz

Middle Channel / 64QAM



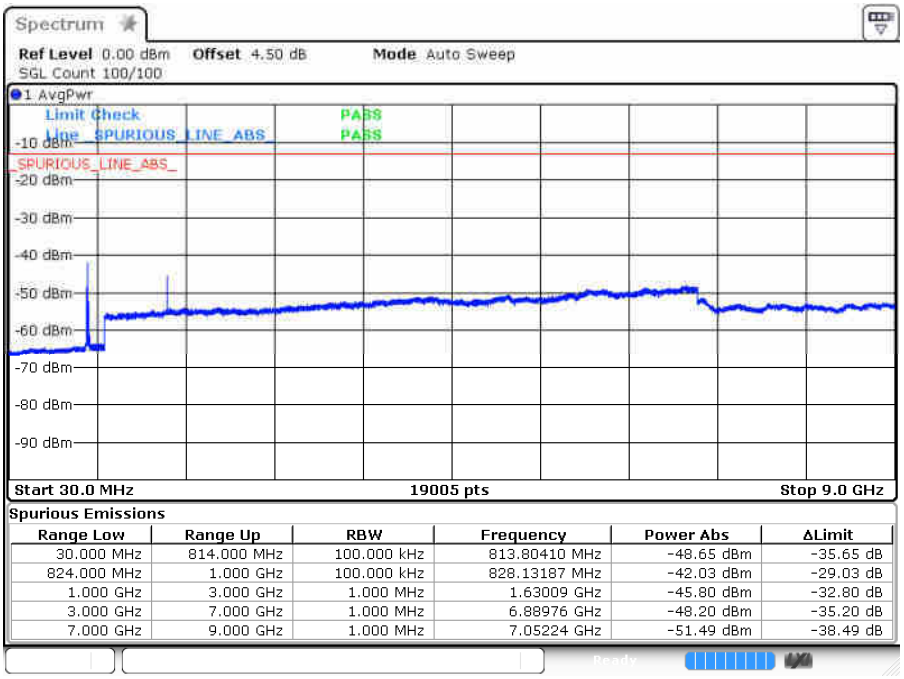
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-41.84 dBm	-28.84 dB
824.000 MHz	1.000 GHz	100.000 kHz	827.78022 MHz	-53.53 dBm	-40.53 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-44.42 dBm	-31.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-48.07 dBm	-35.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04674 GHz	-51.26 dBm	-38.26 dB

Date: 16.JUN.2018 10:41:41

LTE Band 26 / 15MHz

Lowest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-48.65 dBm	-35.65 dB
824.000 MHz	1.000 GHz	100.000 kHz	828.13187 MHz	-42.03 dBm	-29.03 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63009 GHz	-45.80 dBm	-32.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88976 GHz	-48.20 dBm	-35.20 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05224 GHz	-51.49 dBm	-38.49 dB

Date: 16.JUN.2018 11:02:57

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0053	PASS
40	Normal Voltage	0.0087	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0079	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0087	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

Note: Normal Voltage =3.8 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.3 V.

Appendix B. Test Results of Radiated Test

LTE Band 26 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1630	-43.12	-13	-30.12	-44.49	2.28	5.80	H
	2444	-52.87	-13	-39.87	-54.78	2.84	6.90	H
	3258	-59.81	-13	-46.81	-61.87	3.29	7.50	H
	1630	-41.99	-13	-28.99	-43.36	2.28	5.80	V
	2444	-50.77	-13	-37.77	-52.68	2.84	6.90	V
	3258	-59.50	-13	-46.50	-61.56	3.29	7.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.