



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1924-6, XT1924-8
FCC ID : IHDT56XA1
STANDARD : FCC 47 CFR Part 2, and 90(S)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 29, 2017 and testing was completed on Feb. 12, 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.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.
No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335
China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW7D2903-01B	Rev. 01	Initial issue of report	Feb. 14, 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	$< 50 + 10\log_{10}(P[\text{Watts}])$	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 51.86 dB at 2444.000 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	-



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT1924-6, XT1924-8
FCC ID	IHDT56XA1
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE
IMEI Code	Conducted: 351892090018859 Radiation: 351892090033775
HW Version	DVT 1B
SW Version	hannah-userdebug 8.0.0 OPP27.66 1466 intcfg,test-keys
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	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	23.94 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM / 64QAM

Remark: This test report recorded only product characteristics and test results of PCS Licensed Transmitter Held to Ear (PCE).

1.5 Specification of Accessory

Specification of Accessory			
AC Adapter 1	Brand Name	Motorola (Salom)	Model Name SPN5970A SC-22
	Power Rating	I/P: 100-240 Vac, 500mA, O/P: 5 Vdc,3000mA or 9Vdc,1600mA or 12Vdc,1200mA	
AC Adapter 2	Brand Name	Motorola (Chenyang)	Model Name SPN5993A SC-22
	Power Rating	I/P: 100-240 Vac, 500mA, O/P: 5 Vdc,3000mA or 9Vdc,1600mA or 12Vdc,1200mA	
Earphone	Brand Name	Motorola (NEW Leaders)	Model Name NLD-EM300V-01SF
	Signal Line	1.25 meter, non-shielded cable, without ferrite core	
Battery	Brand Name	Motorola (Amperex)	Model Name HE50
	Power Rating	3.8Vdc,4850/5000mAh	Type Li-ion
USB Cable (Black/White)	Brand Name	Motorola (SaiBao)	Model Name SLQ-A081A
	Signal Line	1.02 meter, shielded cable, without ferrite core	

1.6 Modification of EUT

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



1.7 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	0.1986
Part 90S	LTE Band 26	16QAM	1.4 MHz	-	1M10W7D	0.1567
Part 90S	LTE Band 26	64QAM	1.4 MHz	-	1M10W7D	0.1211
Part 90S	LTE Band 26	QPSK	3 MHz	-	2M74G7D	0.2075
Part 90S	LTE Band 26	16QAM	3 MHz	-	2M73W7D	0.1552
Part 90S	LTE Band 26	64QAM	3 MHz	-	2M73W7D	0.1213
Part 90S	LTE Band 26	QPSK	5 MHz	-	4M50G7D	0.2046
Part 90S	LTE Band 26	16QAM	5 MHz	-	4M49W7D	0.2023
Part 90S	LTE Band 26	64QAM	5 MHz	-	4M51W7D	0.1910
Part 90S	LTE Band 26	QPSK	10 MHz	0.0079 ppm	8M99G7D	0.1897
Part 90S	LTE Band 26	16QAM	10 MHz	-	8M99W7D	0.1390
Part 90S	LTE Band 26	64QAM	10 MHz	-	8M99W7D	0.1009
Part 90S	LTE Band 26	QPSK	15 MHz	-	13M4G7D	0.2477
Part 90S	LTE Band 26	16QAM	15 MHz	-	13M4W7D	0.1644
Part 90S	LTE Band 26	64QAM	15 MHz	-	13M4W7D	0.1387

1.8 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

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 Test Firm Registration No.
	TH01-KS	03CH03-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

1.9 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
- ANSI/TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02

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

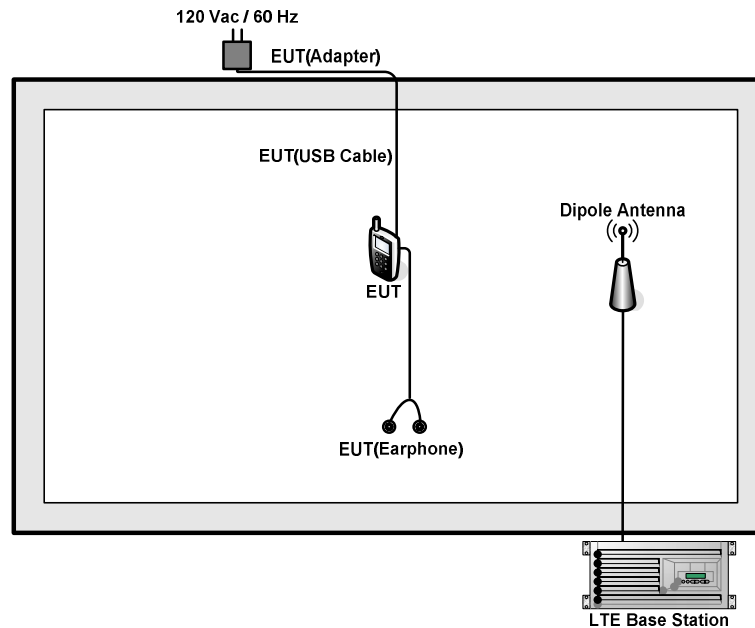
2.1 Test Mode

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	
Radiated Spurious Emission	26				v			v			v				v	
Note	- The mark "v" means that this configuration is chosen for testing - The mark "-" means that this bandwidth is not supported. - 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 INSTR	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.

Example:

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.3 dB.

$$\begin{aligned}
 \text{Offset (dB)} &= \text{RF cable loss (dB)} \\
 &= 4.3 \text{ (dB)}
 \end{aligned}$$

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.

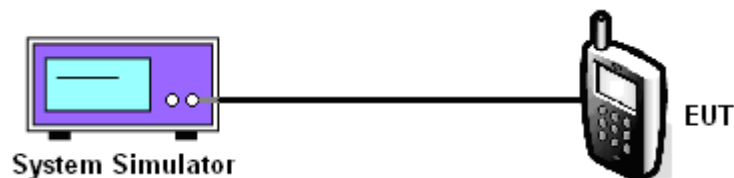
3.1.2 Measuring Instruments

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.

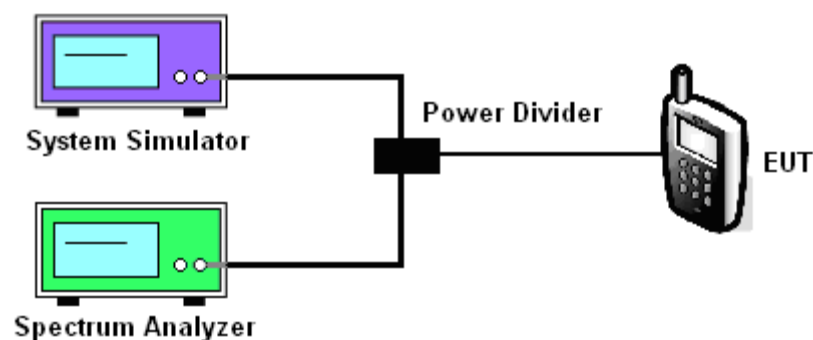
3.2.2 Measuring Instruments

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 $43 + 10 \log_{10}(P)$ 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 37.5 kHz.

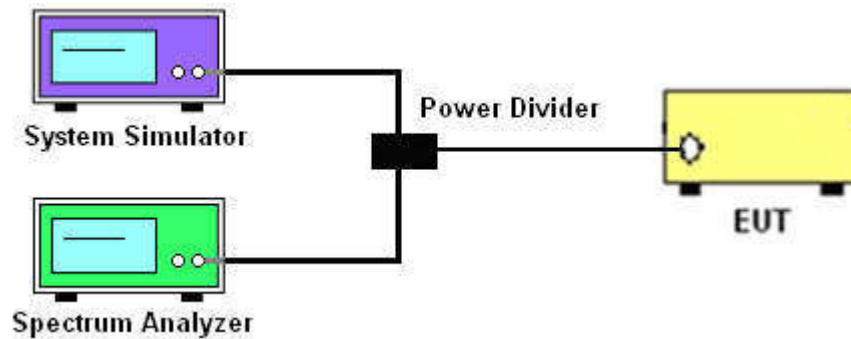
3.3.2 Measuring Instruments

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 $10 \log (1\% \text{ of OBW/measured RBW})(\text{dB})$ 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.

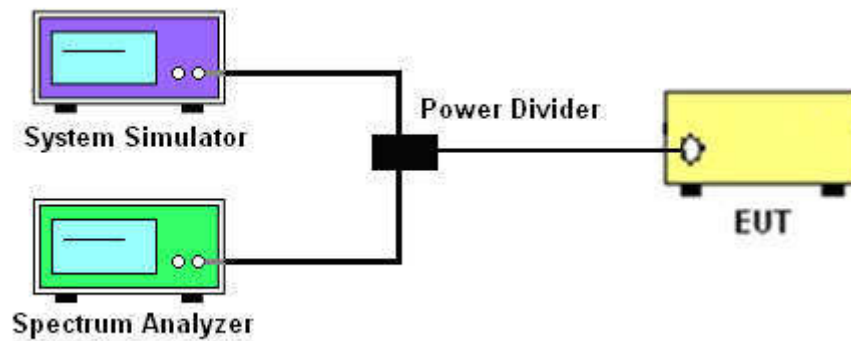
3.4.2 Measuring Instruments

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (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 $43 + 10 \log_{10}(P[\text{Watts}])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

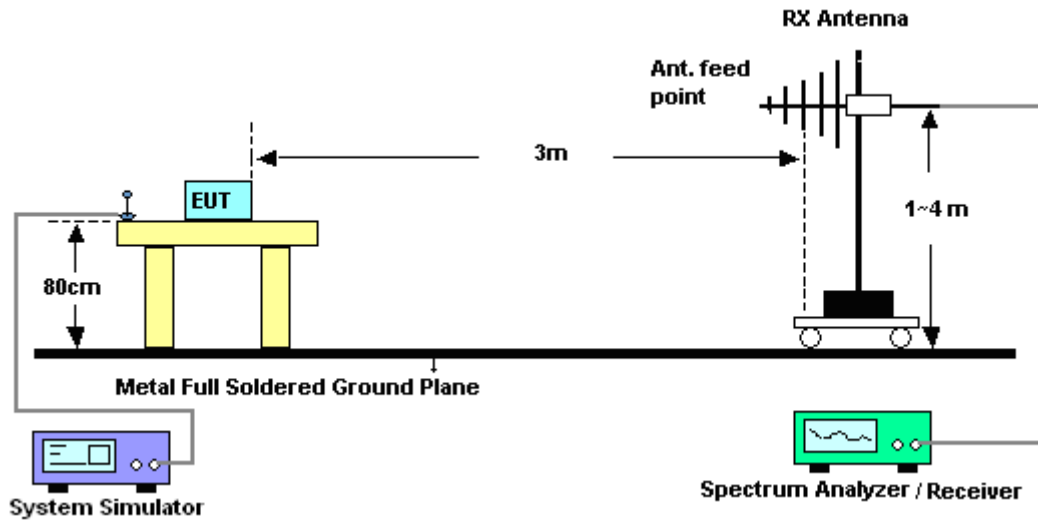
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

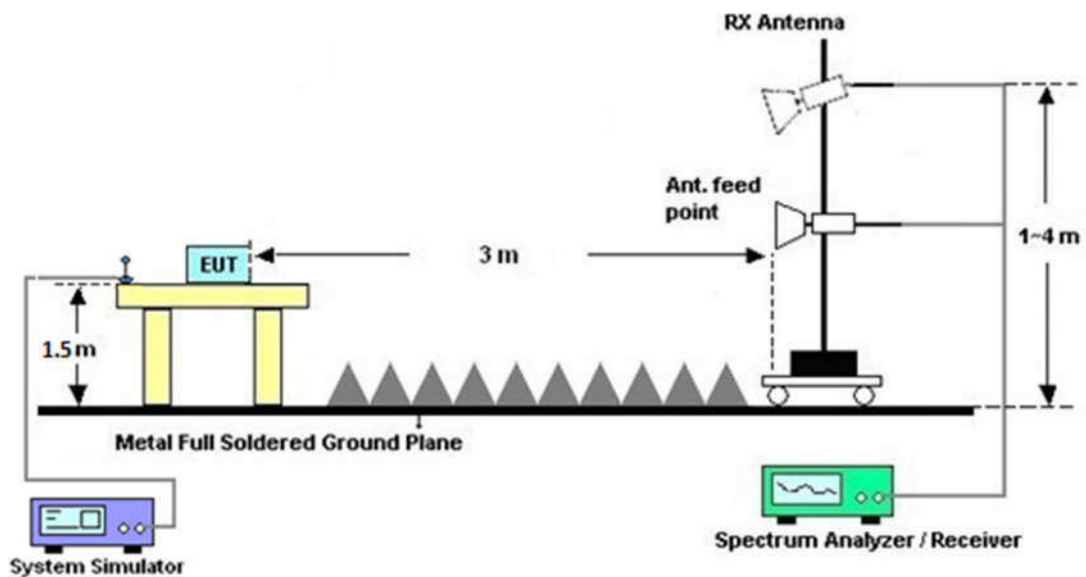
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position 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. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10 \log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log(P)] \text{ (dB)}$
 $= [30 + 10 \log(P)] \text{ (dBm)} - [43 + 10 \log(P)] \text{ (dB)}$
 $= -13 \text{ dBm}.$

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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) 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.

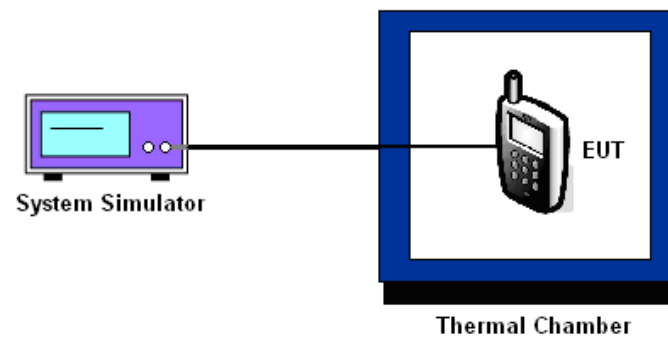
3.6.3 Test Procedures for Temperature Variation

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 $20\pm 5^{\circ}\text{C}$ 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	FSV40	101040	10Hz~40GHz	Aug. 8, 2017	Feb. 12, 2018	Aug. 7, 2018	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct.12, 2017	Feb. 12, 2018	Oct. 11, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2017	Feb. 12, 2018	Apr. 17, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz~2GHz	Apr. 22, 2017	Feb. 12, 2018	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Feb. 12, 2018	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 15, 2017	Feb. 12, 2018	Feb. 14, 2018	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MHz / 32 dB	Apr. 18, 2017	Feb. 12, 2018	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 12, 2017	Feb. 12, 2018	Oct. 11, 2018	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-	2025788	1GHz~18GHz	Apr. 18, 2017	Feb. 12, 2018	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 12, 2017	Feb. 12, 2018	Oct. 11, 2018	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 12, 2018	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 12, 2018	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 12, 2018	NCR	Radiation (03CH03-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% ($U = 2Uc(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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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	23.01		
15	1	37		23.52		
15	1	74		23.94		
15	36	0		22.82		
15	36	20		22.63		
15	36	39		22.57		
15	75	0		22.89		
15	1	0	16-QAM	22.12		
15	1	37		22.07		
15	1	74		22.16		
15	36	0		21.95		
15	36	20		21.6		
15	36	39		21.57		
15	75	0		21.73		
15	1	0	64-QAM	21.42		
15	1	37		21.01		
15	1	74		21.36		
15	36	0		20.44		
15	36	20		20.97		
15	36	39		20.1		
15	75	0		20.35		



10	1	0	QPSK	-	22.78	
10	1	25			22.18	
10	1	49			22.59	
10	25	0			21.64	
10	25	12			21.47	
10	25	25			21.83	
10	50	0			21.69	
10	1	0	16-QAM		21.13	
10	1	25			21.23	
10	1	49			21.43	
10	25	0			20.77	
10	25	12			20.61	
10	25	25			20.76	
10	50	0			20.67	
10	1	0	64-QAM		19.95	
10	1	25			20.04	
10	1	49			19.74	
10	25	0			19.73	
10	25	12			19.7	
10	25	25			19.82	
10	50	0			18.82	



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.72	22.6	22.67
5	1	12		22.15	23.11	23.08
5	1	24		22.54	22.83	22.87
5	12	0		21.71	21.51	21.63
5	12	7		21.69	21.63	21.59
5	12	13		21.75	21.57	21.63
5	25	0		21.62	21.67	21.6
5	1	0	16-QAM	22.08	21.86	21.94
5	1	12		21.89	21.83	21.74
5	1	24		22.3	23.06	21.77
5	12	0		20.69	20.57	20.62
5	12	7		20.7	20.79	20.66
5	12	13		20.67	20.55	20.59
5	25	0		20.66	20.8	20.65
5	1	0	64-QAM	20.87	22.81	20.86
5	1	12		20.76	21.77	20.68
5	1	24		20.98	22.48	20.69
5	12	0		19.68	20.57	19.61
5	12	7		19.6	20.6	19.65
5	12	13		19.65	20.5	19.61
5	25	0		19.86	20.62	19.66



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.58	22.51	21.54
3	1	8		22.26	23.03	22.11
3	1	14		22.27	23.17	22.19
3	8	0		21.52	21.55	20.59
3	8	4		20.73	21.65	20.6
3	8	7		20.73	21.48	20.51
3	15	0		20.72	21.52	20.57
3	1	0	16-QAM	20.76	21.75	20.88
3	1	8		20.86	21.86	20.99
3	1	14		20.69	21.91	20.84
3	8	0		19.57	20.62	19.69
3	8	4		19.69	20.6	19.67
3	8	7		19.65	21.46	19.62
3	15	0		19.68	20.61	19.59
3	1	0	64-QAM	19.82	20.62	19.76
3	1	8		19.61	20.7	19.75
3	1	14		19.69	20.84	19.66
3	8	0		18.49	19.62	18.64
3	8	4		18.67	19.65	18.62
3	8	7		18.67	19.55	18.61
3	15	0		18.79	19.6	18.63



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.61	22.61	22.57
1.4	1	2		22.98	22.1	22
1.4	1	5		22.6	22.25	22.31
1.4	3	0		22.34	22.4	22.36
1.4	3	1		22.31	22.35	22.42
1.4	3	2		22.32	22.36	22.4
1.4	6	0	16-QAM	21.71	21.63	21.12
1.4	1	0		21.86	21.83	21.51
1.4	1	2		21.91	21.82	21.89
1.4	1	5		21.95	21.86	21.92
1.4	3	0		21.6	21.62	21.89
1.4	3	1		21.74	21.71	21.67
1.4	3	2	64-QAM	21.71	21.69	21.74
1.4	6	0		20.66	20.77	21.65
1.4	1	0		20.72	20.64	20.7
1.4	1	2		20.83	20.78	20.82
1.4	1	5		20.83	20.68	20.7
1.4	3	0		20.66	20.6	20.67
1.4	3	1	64-QAM	20.62	20.69	20.77
1.4	3	2		20.72	20.7	20.67
1.4	6	0		19.66	19.78	19.64

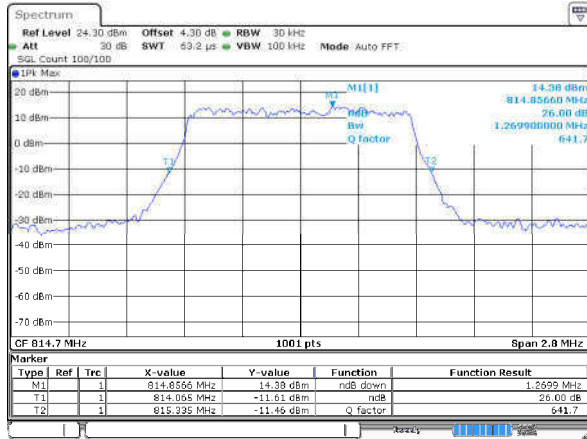
**26dB Bandwidth**

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	1.27	1.29	2.97	3.03	5.00	4.92			14.33	14.33		-
Middle CH	1.29	1.26	2.99	3.01	4.98	4.92	9.95	9.77				-
Highest CH	1.28	1.27	2.98	2.94	4.95	4.89						-
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.27	3.03	4.90		14.45	-						
Middle CH	1.28	3.02	4.87	9.79		-						
Highest CH	1.29	3.00	4.90			-						

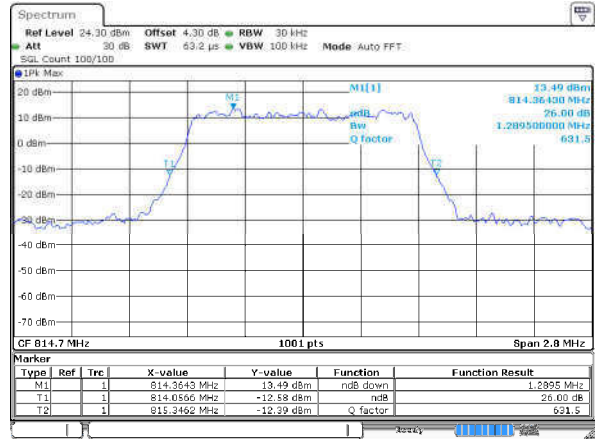


LTE Band 26

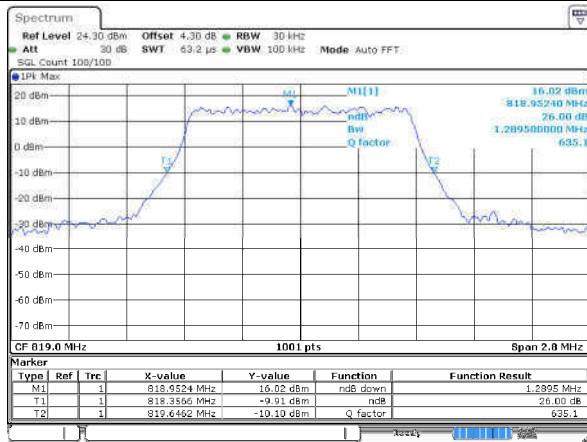
Lowest Channel / 1.4MHz / QPSK



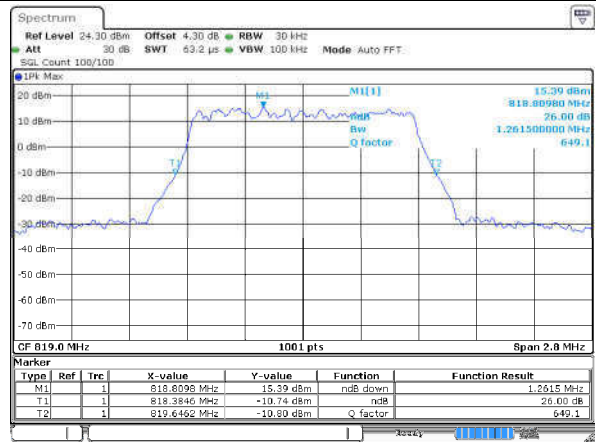
Lowest Channel / 1.4MHz / 16QAM



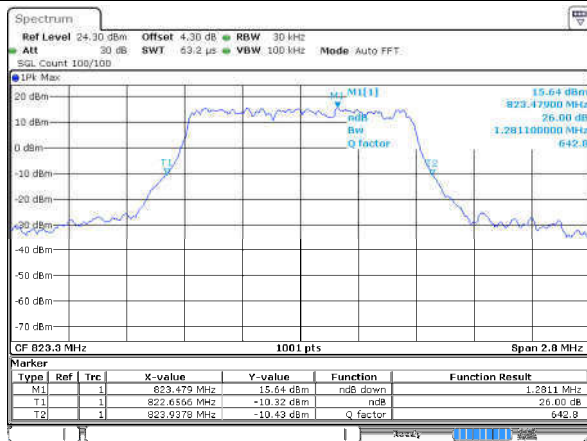
Middle Channel / 1.4MHz / QPSK



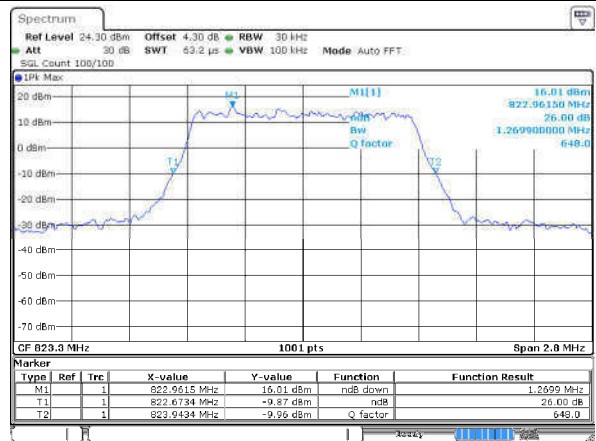
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



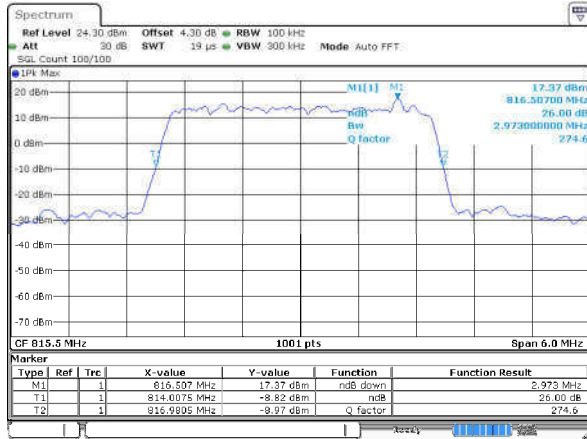
Highest Channel / 1.4MHz / 16QAM



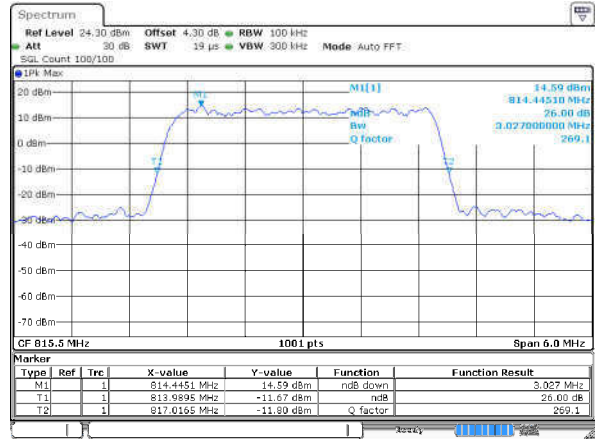


LTE Band 26

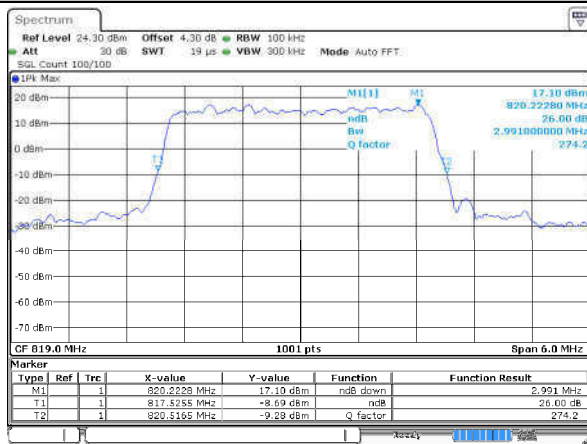
Lowest Channel / 3MHz / QPSK



Lowest Channel / 3MHz / 16QAM



Middle Channel / 3MHz / QPSK



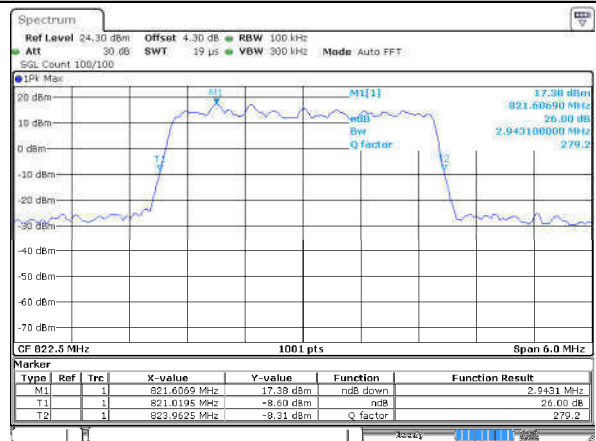
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



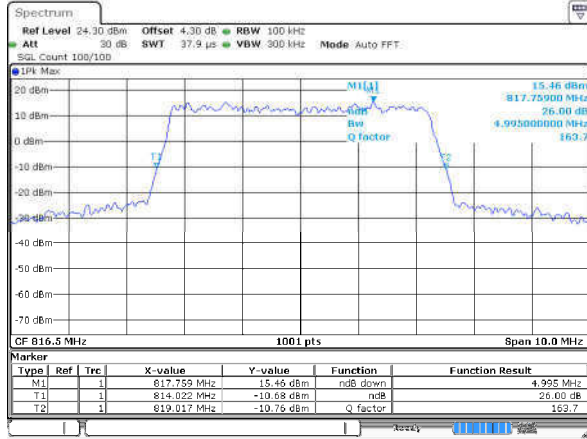
Highest Channel / 3MHz / 16QAM





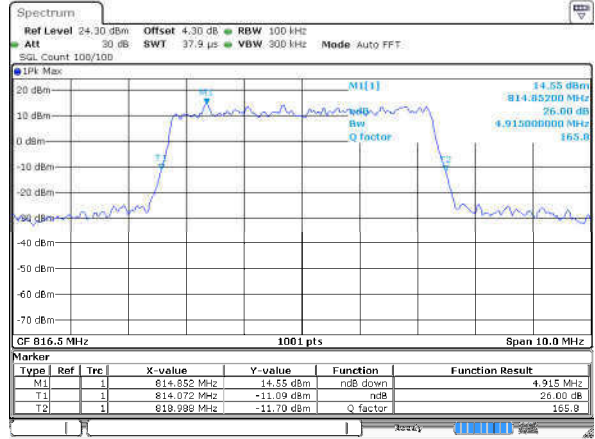
LTE Band 26

Lowest Channel / 5MHz / QPSK



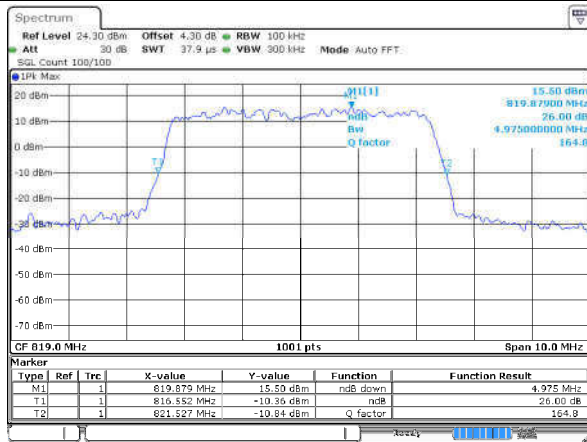
Date: 12.FEB.2018 19:24:53

Lowest Channel / 5MHz / 16QAM



Date: 12.FEB.2018 19:24:32

Middle Channel / 5MHz / QPSK



Date: 12.FEB.2018 19:25:19

Middle Channel / 5MHz / 16QAM



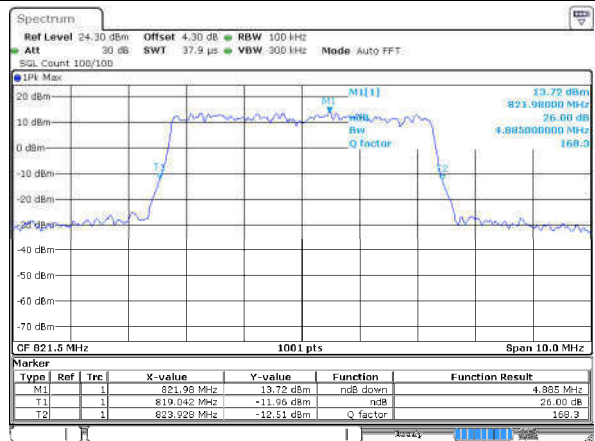
Date: 12.FEB.2018 19:25:48

Highest Channel / 5MHz / QPSK



Date: 12.FEB.2018 19:27:22

Highest Channel / 5MHz / 16QAM

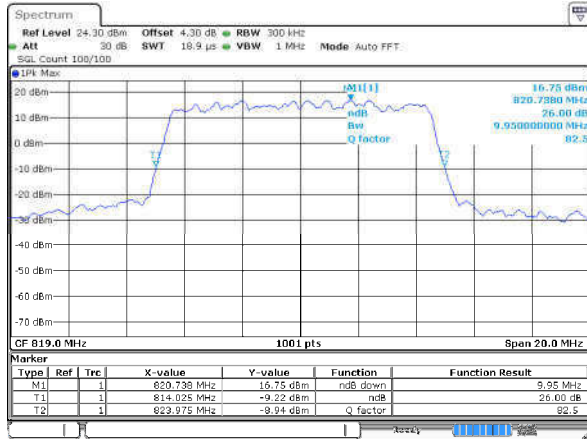


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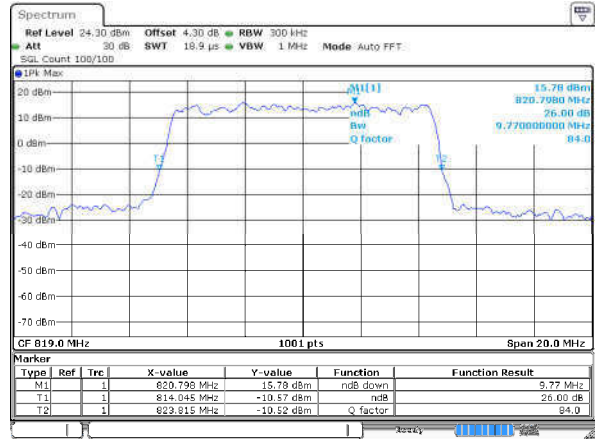


LTE Band 26

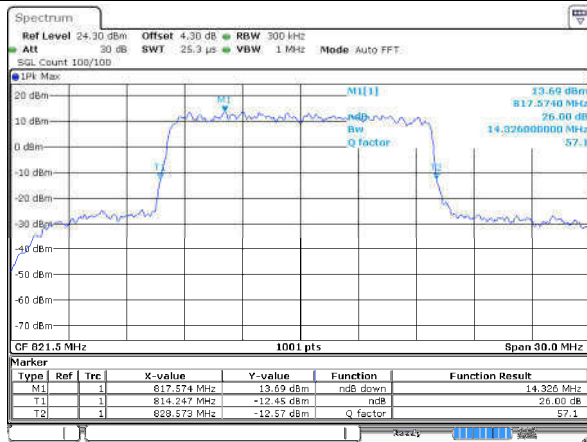
Middle Channel / 10MHz / QPSK



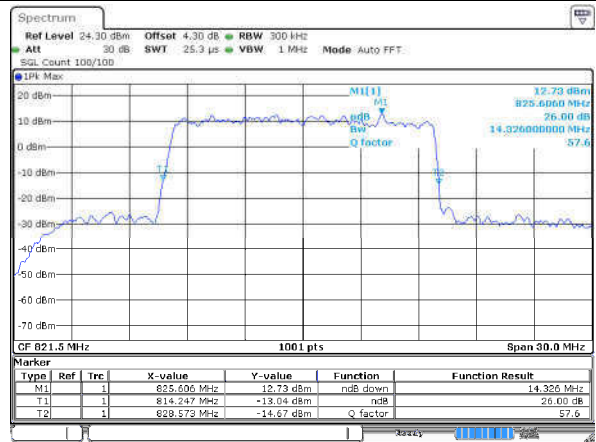
Middle Channel / 10MHz / 16QAM



Lowest Channel / 15MHz / QPSK



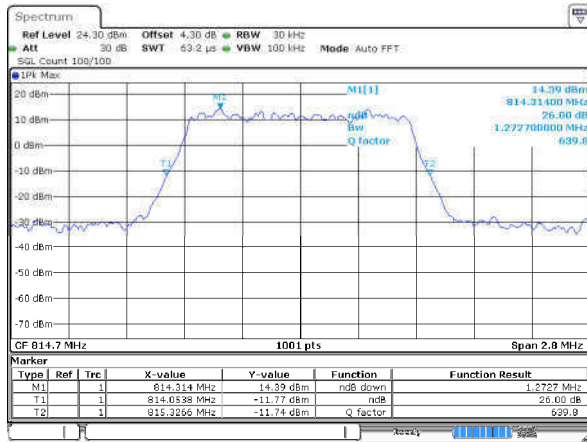
Lowest Channel / 15MHz / 16QAM





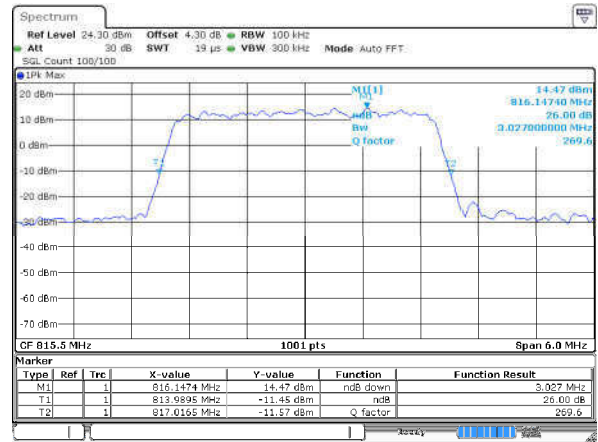
LTE Band 26

Lowest Channel / 1.4MHz / 64QAM



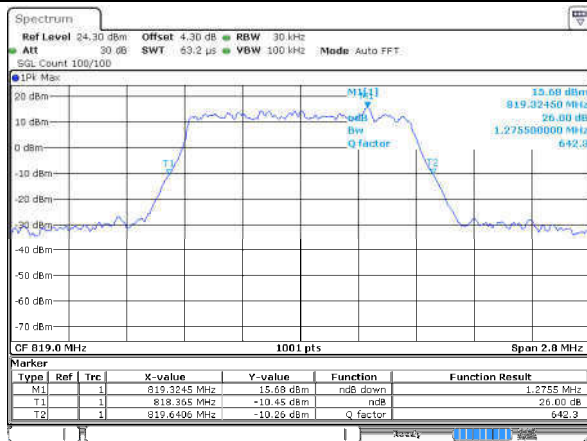
Date: 12.FEB.2018 19:15:08

Lowest Channel / 3MHz / 64QAM



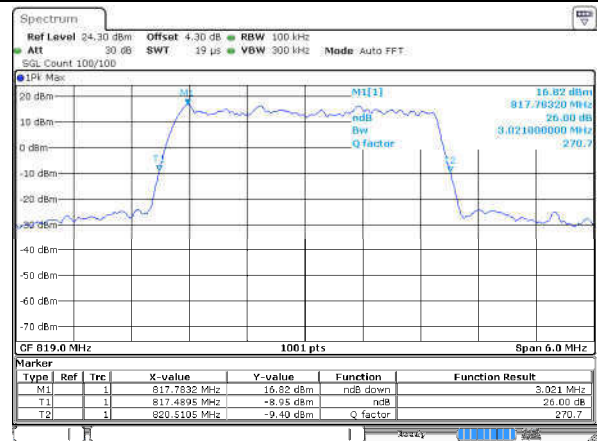
Date: 12.FEB.2018 19:19:31

Middle Channel / 1.4MHz / 64QAM



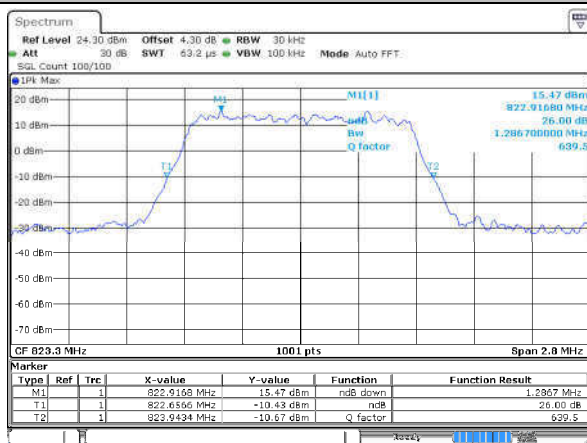
Date: 12.FEB.2018 19:19:07

Middle Channel / 3MHz / 64QAM



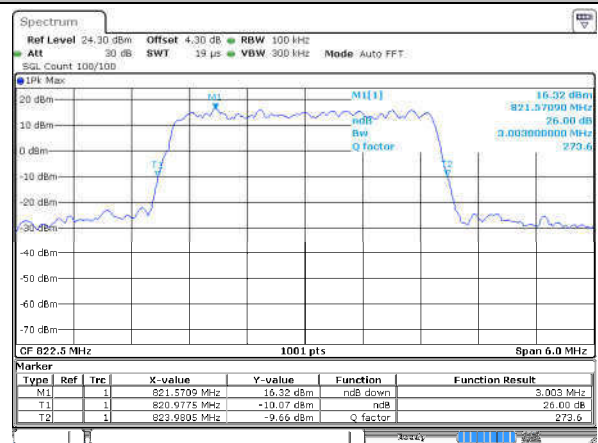
Date: 12.FEB.2018 19:23:42

Highest Channel / 1.4MHz / 64QAM



Date: 12.FEB.2018 19:18:41

Highest Channel / 3MHz / 64QAM

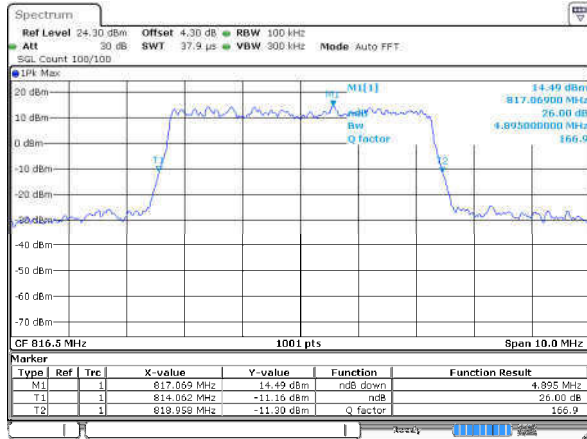


Date: 12.FEB.2018 19:22:23



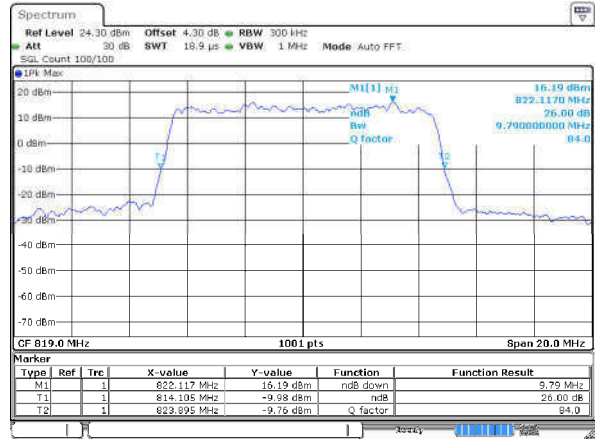
LTE Band 26

Lowest Channel / 5MHz / 64QAM



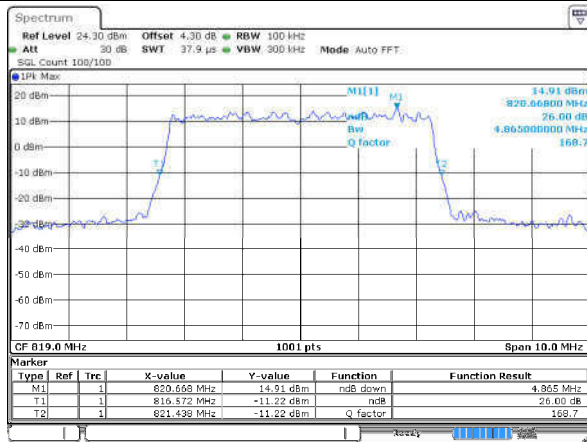
Date: 12 FEB 2018 19:24:13

Middle Channel / 10MHz / 64QAM



Date: 12 FEB 2018 19:28:53

Middle Channel / 5MHz / 64QAM



Date: 12 FEB 2018 19:26:15

Lowest Channel / 15MHz / 64QAM



Date: 12 FEB 2018 19:30:33

Highest Channel / 5MHz / 64QAM



Date: 12 FEB 2018 19:26:30

**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	2.73	4.50	4.49			13.43	13.37		
Middle CH	1.09	1.09	2.72	2.71	4.49	4.47	8.99	8.99				
Highest CH	1.09	1.10	2.74	2.72	4.49	4.48						
BW	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz						
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM						
Lowest CH	1.10	2.73	4.49		13.40							
Middle CH	1.09	2.73	4.47	8.99								
Highest CH	1.09	2.72	4.51									

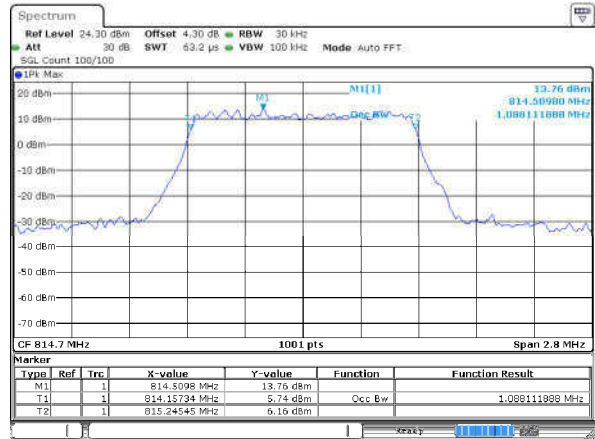


LTE Band 26

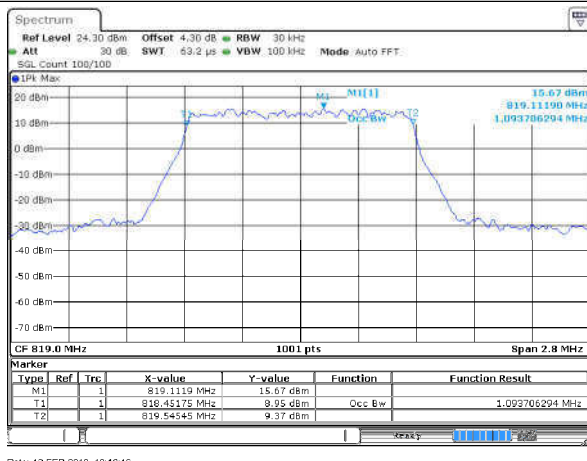
Lowest Channel / 1.4MHz / QPSK



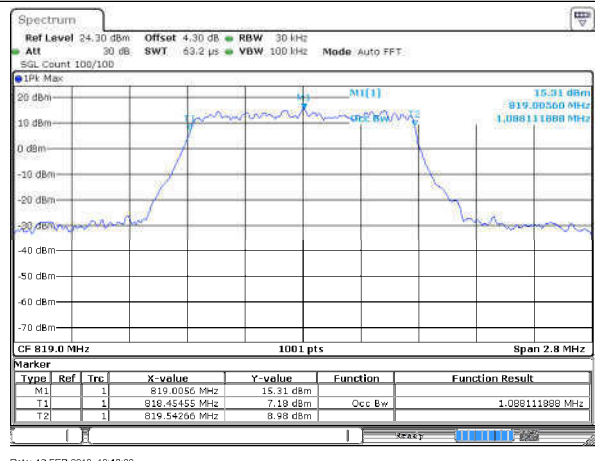
Lowest Channel / 1.4MHz / 16QAM



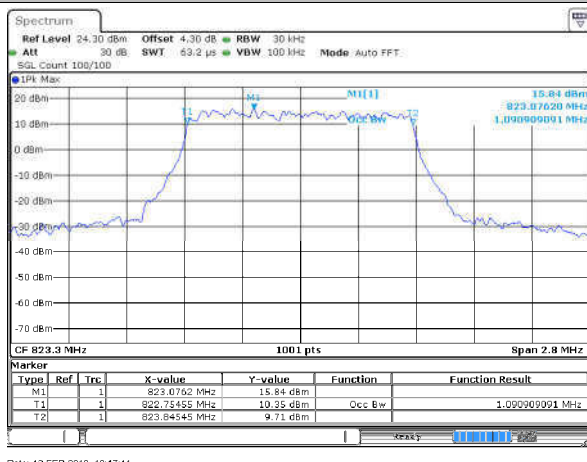
Middle Channel / 1.4MHz / QPSK



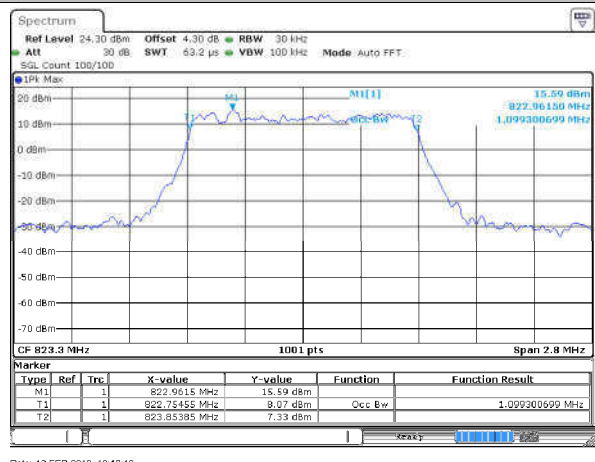
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



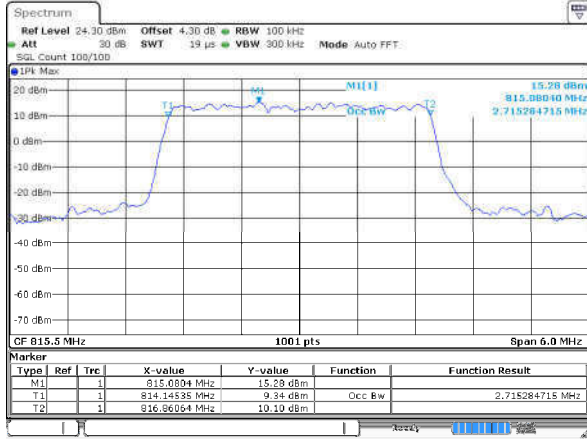
Highest Channel / 1.4MHz / 16QAM



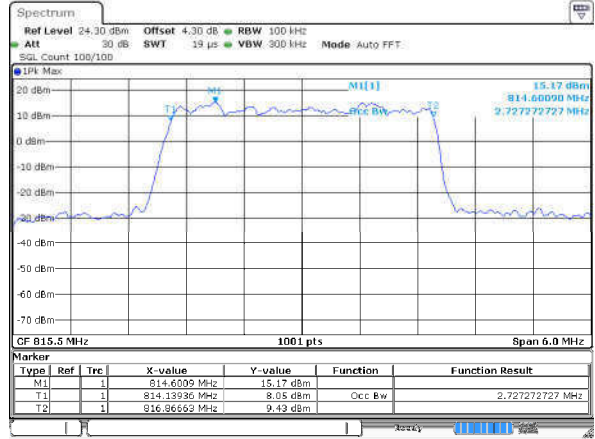


LTE Band 26

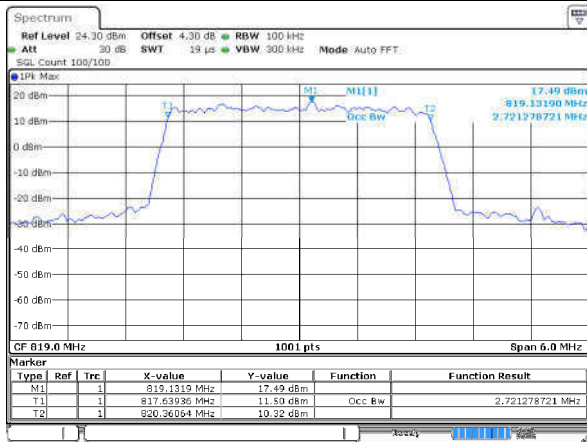
Lowest Channel / 3MHz / QPSK



Lowest Channel / 3MHz / 16QAM



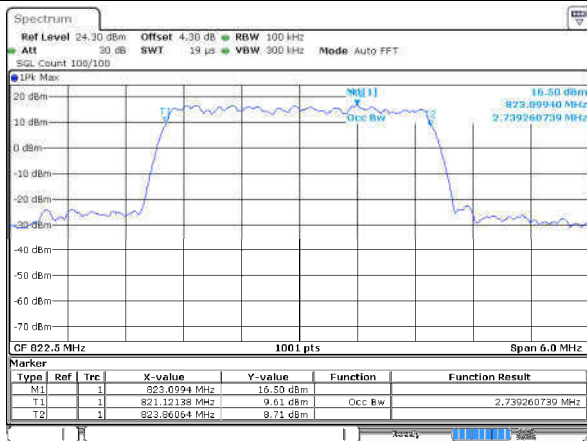
Middle Channel / 3MHz / QPSK



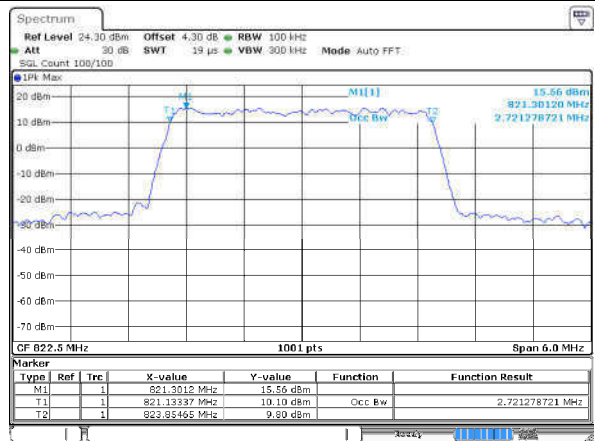
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



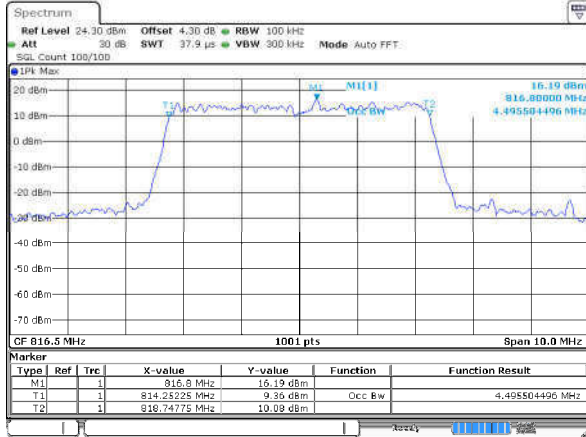
Highest Channel / 3MHz / 16QAM



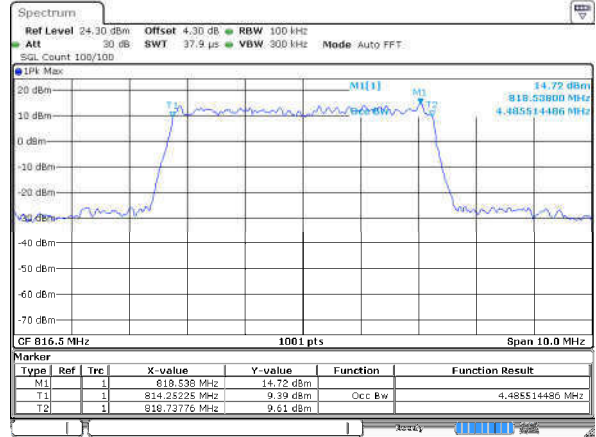


LTE Band 26

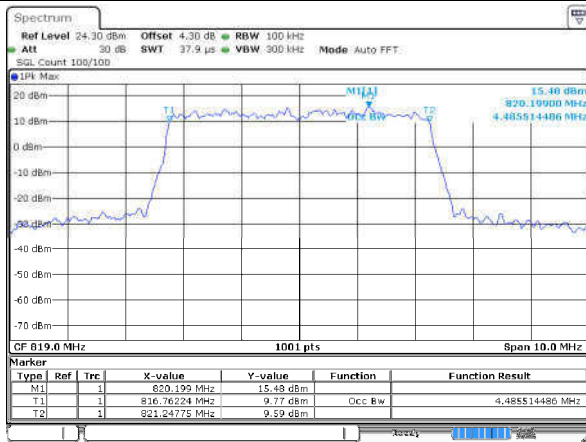
Lowest Channel / 5MHz / QPSK



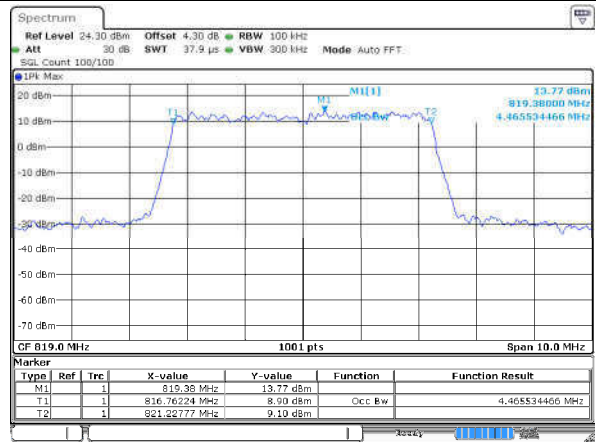
Lowest Channel / 5MHz / 16QAM



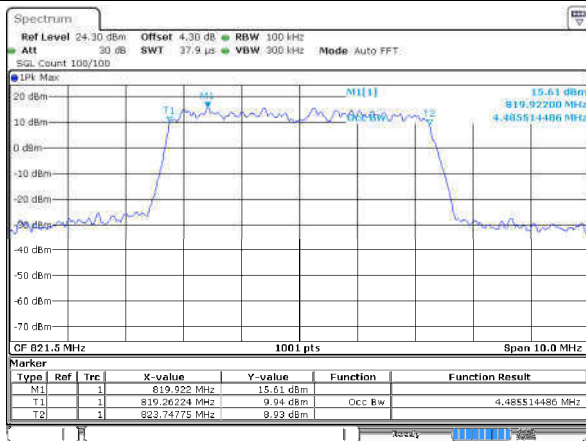
Middle Channel / 5MHz / QPSK



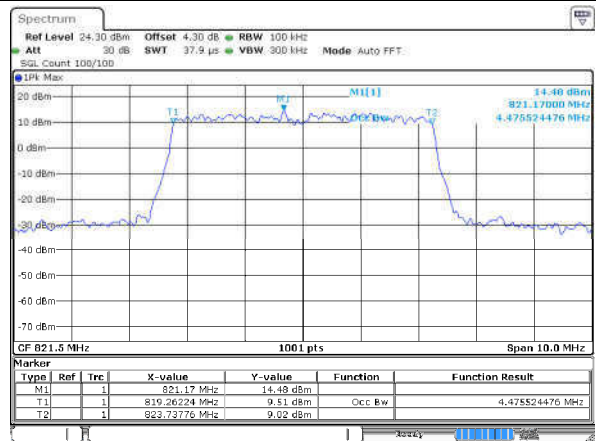
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



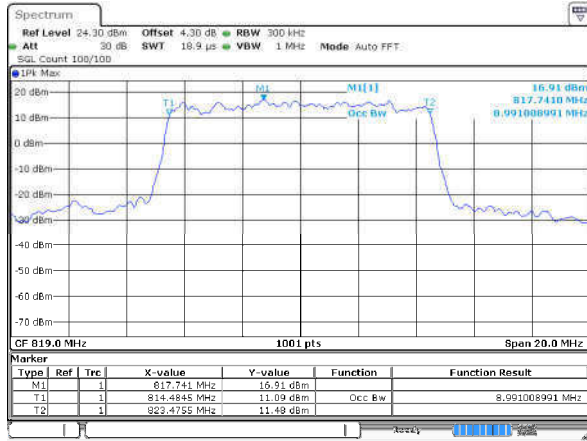
Highest Channel / 5MHz / 16QAM



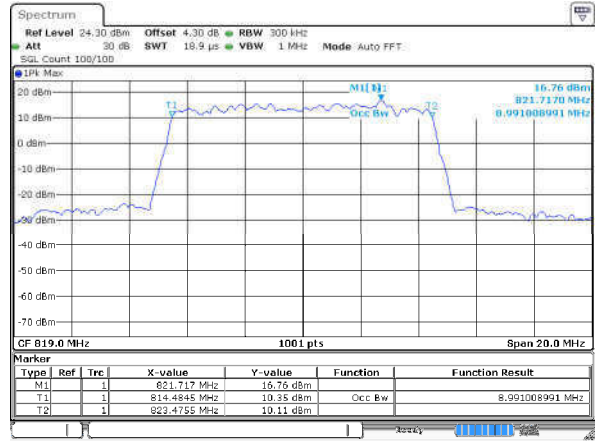


LTE Band 26

Middle Channel / 10MHz / QPSK

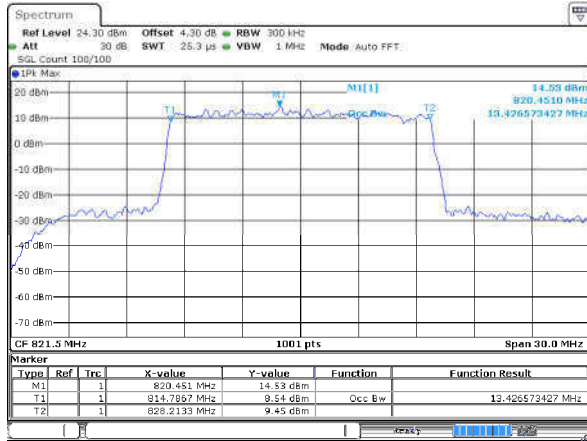


Middle Channel / 10MHz / 16QAM

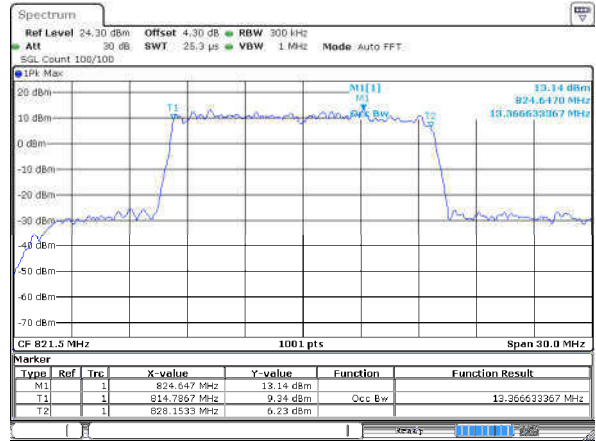


LTE Band 26

Lowest Channel / 15MHz / QPSK



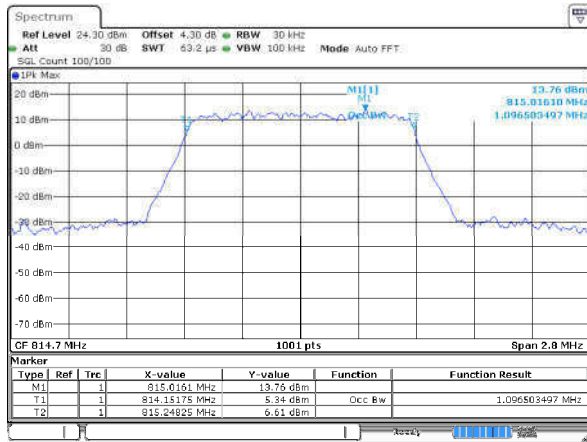
Lowest Channel / 15MHz / 16QAM



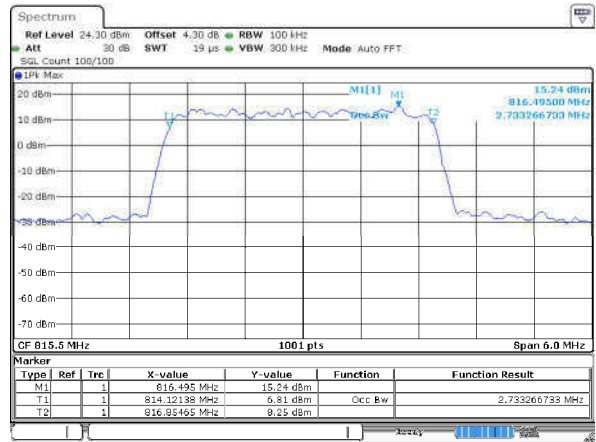


LTE Band 26

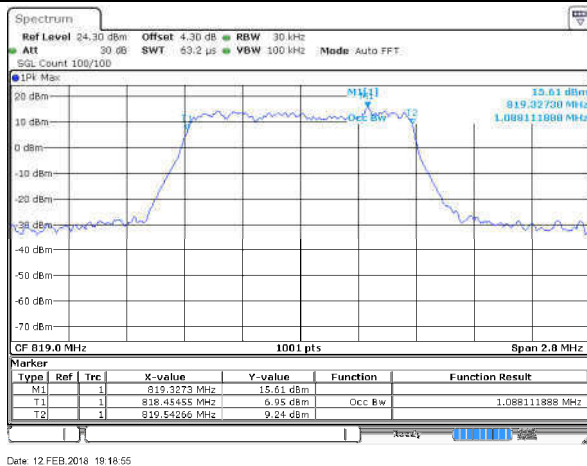
Lowest Channel / 1.4MHz / 64QAM



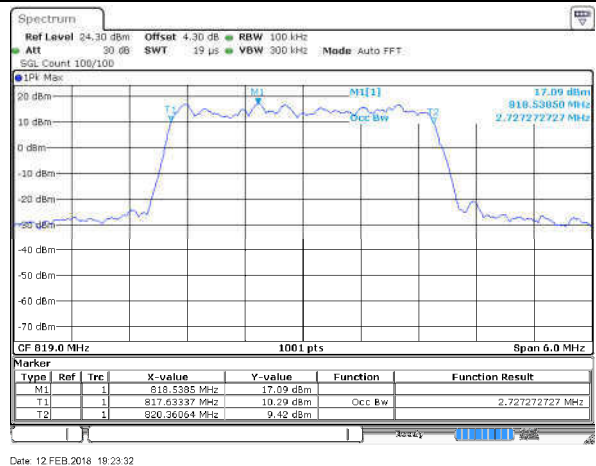
Lowest Channel / 3MHz / 64QAM



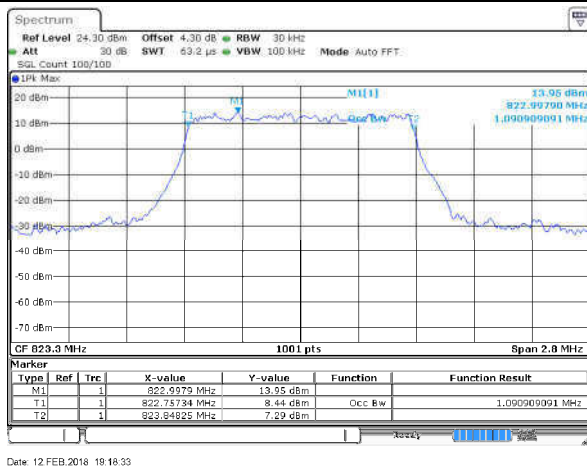
Middle Channel / 1.4MHz / 64QAM



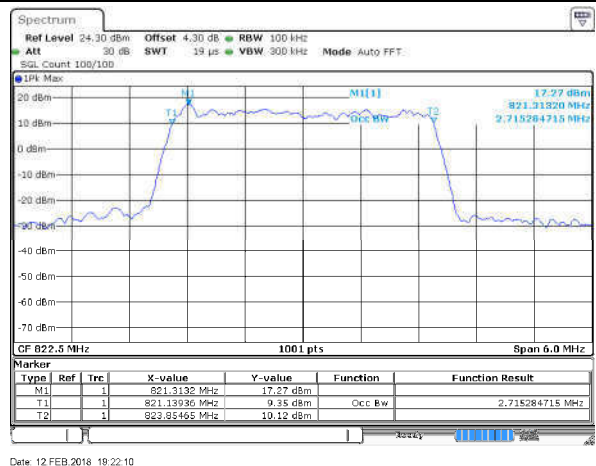
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



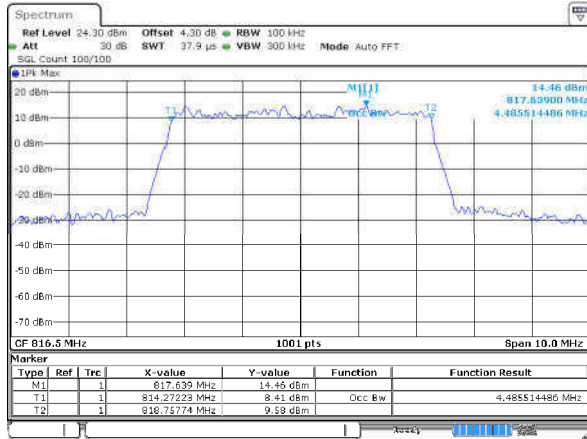
Highest Channel / 3MHz / 64QAM



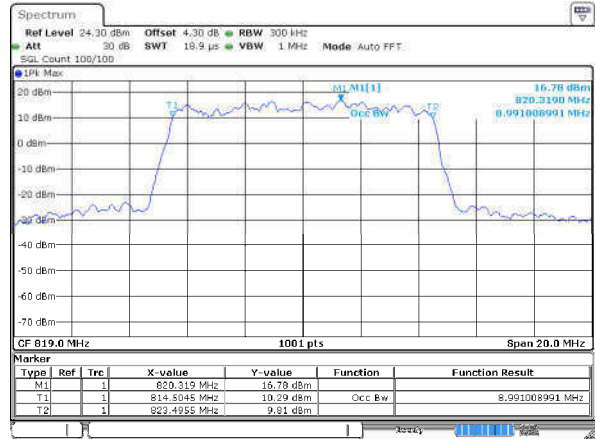


LTE Band 26

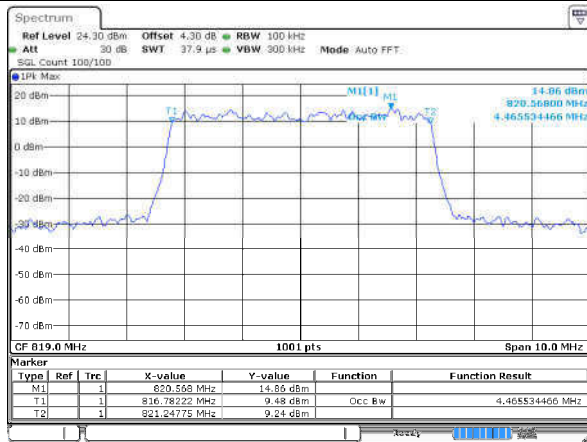
Lowest Channel / 5MHz / 64QAM



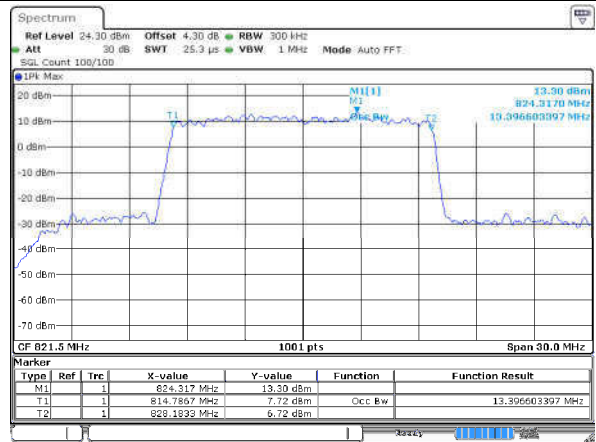
Middle Channel / 10MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Lowest Channel / 15MHz / 64QAM



Highest Channel / 5MHz / 64QAM



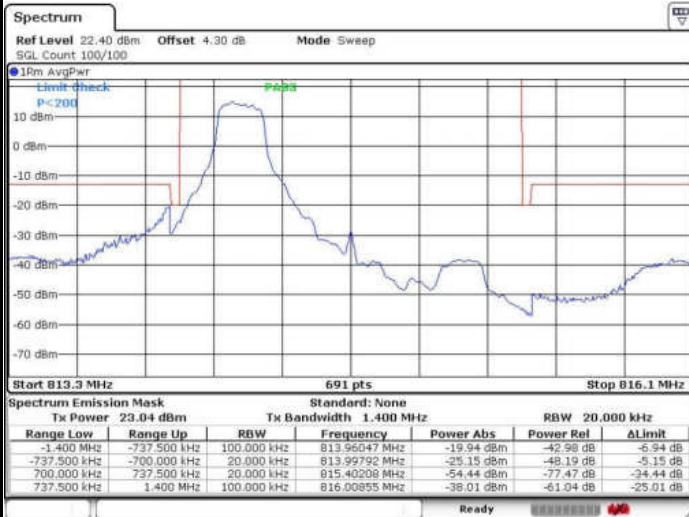


Conducted Band Edge



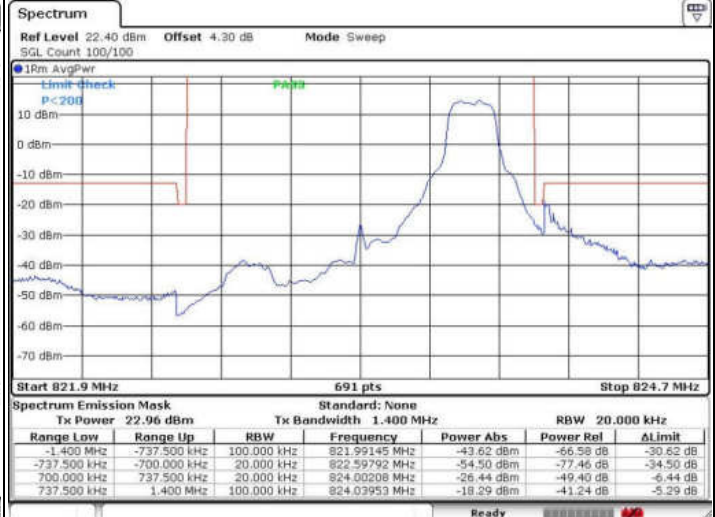
LTE Band 26 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



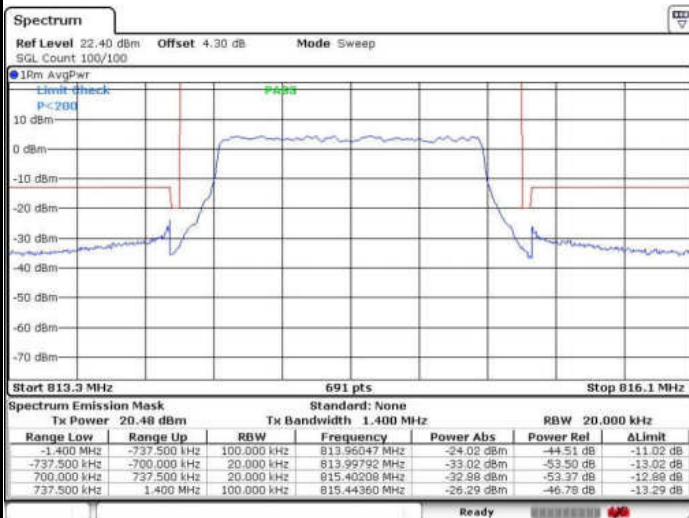
Date: 12 FEB 2018 15:02:40

Highest Band Edge / 1RB



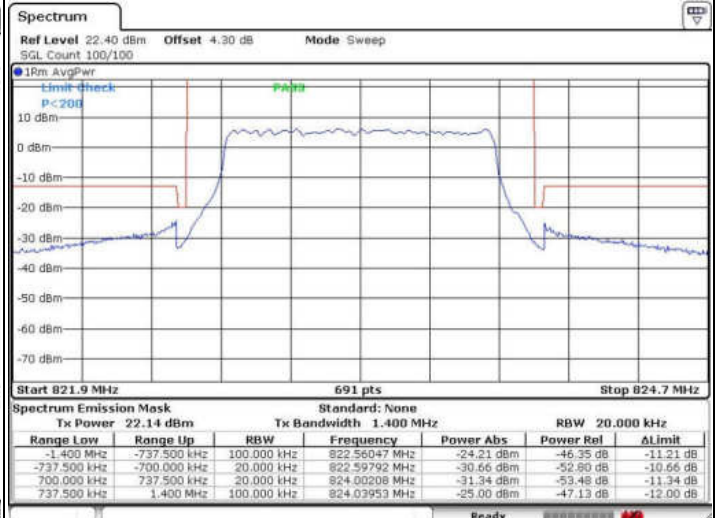
Date: 12 FEB 2018 15:06:37

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:04:57

Highest Band Edge / Full RB

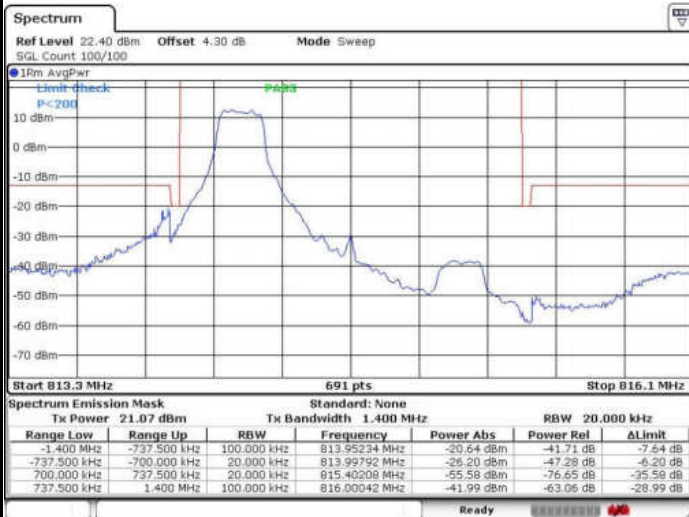


Date: 12 FEB 2018 15:08:45



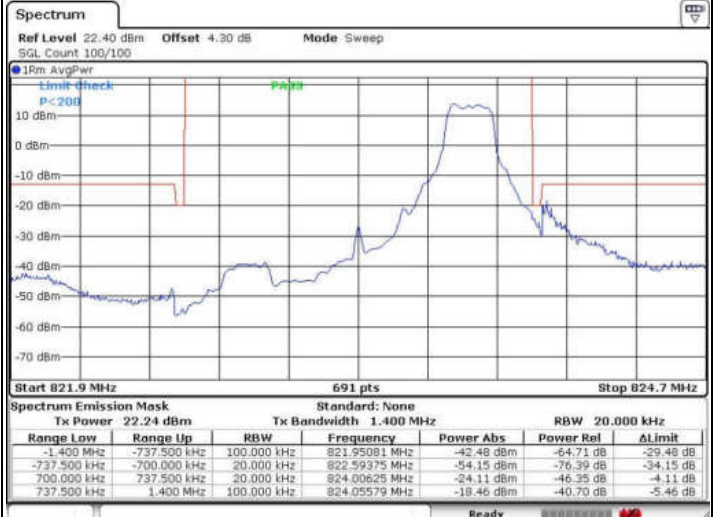
LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



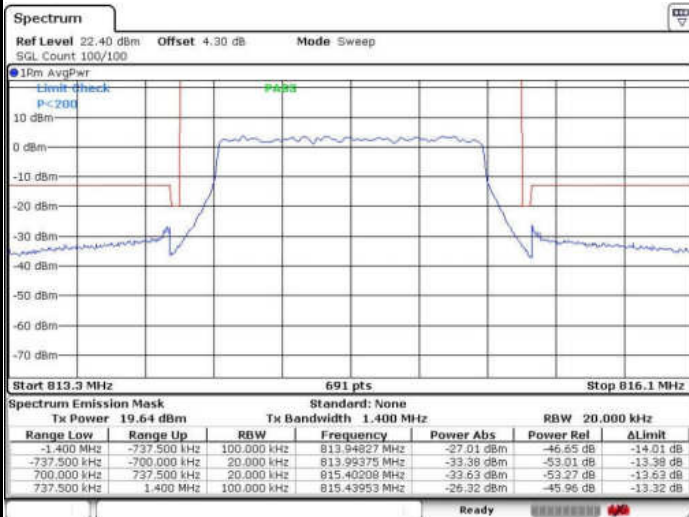
Date: 12 FEB 2018 15:03:13

Highest Band Edge / 1 RB



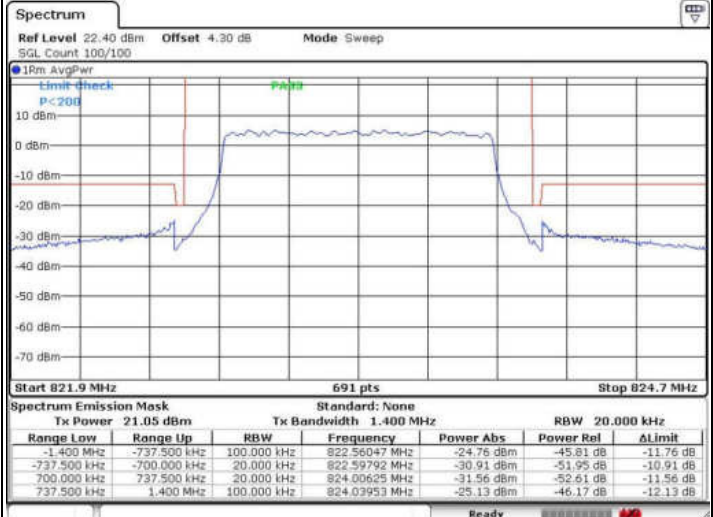
Date: 12 FEB 2018 15:07:07

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:04:35

Highest Band Edge / Full RB

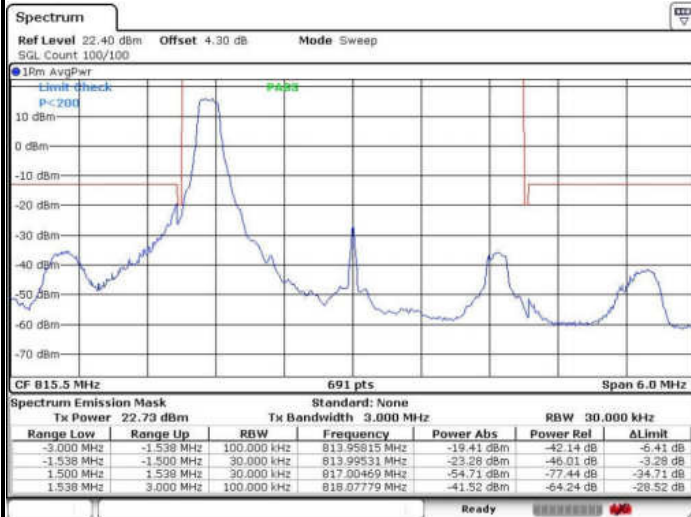


Date: 12 FEB 2018 15:08:28



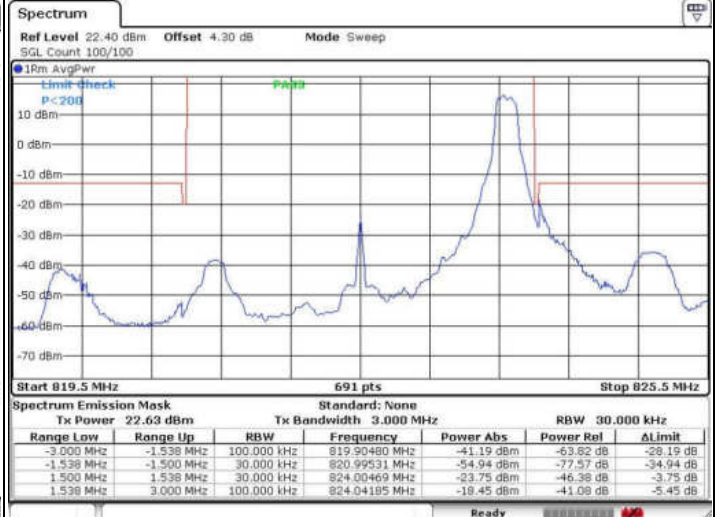
LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



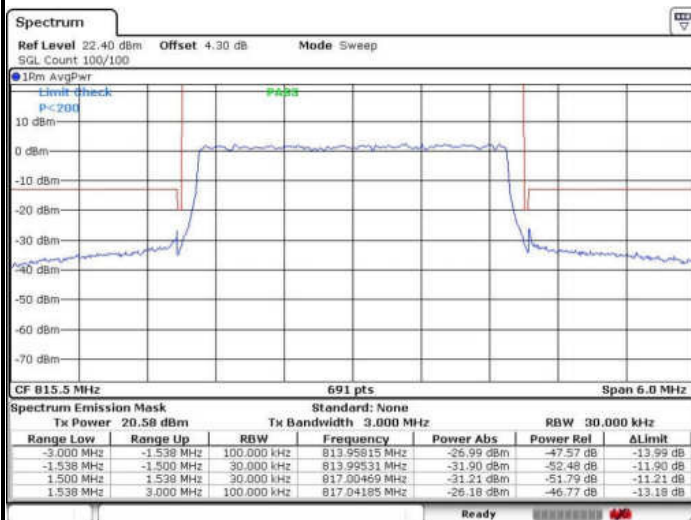
Date: 12 FEB 2018 15:10:49

Highest Band Edge / 1 RB



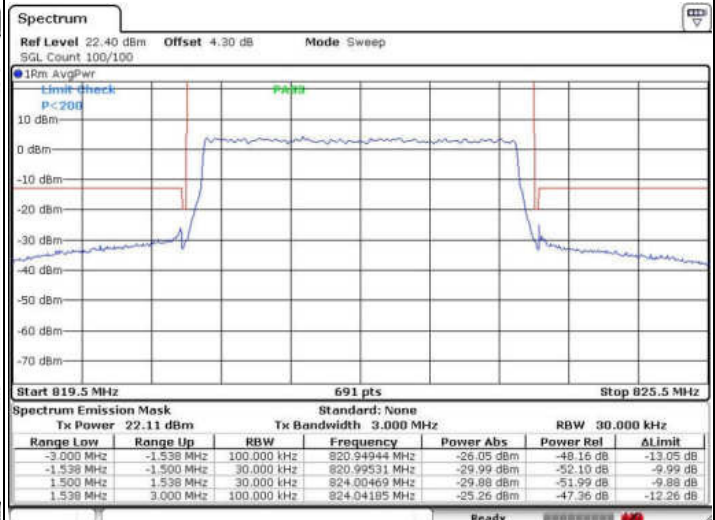
Date: 12 FEB 2018 15:14:59

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:13:43

Highest Band Edge / Full RB

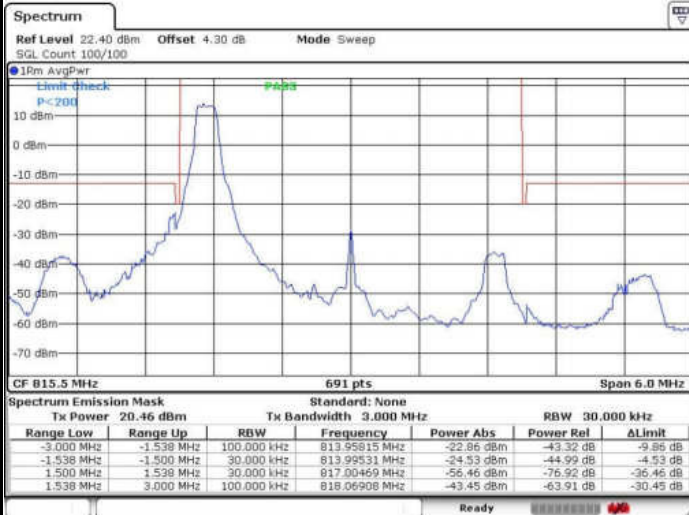


Date: 12 FEB 2018 15:17:37



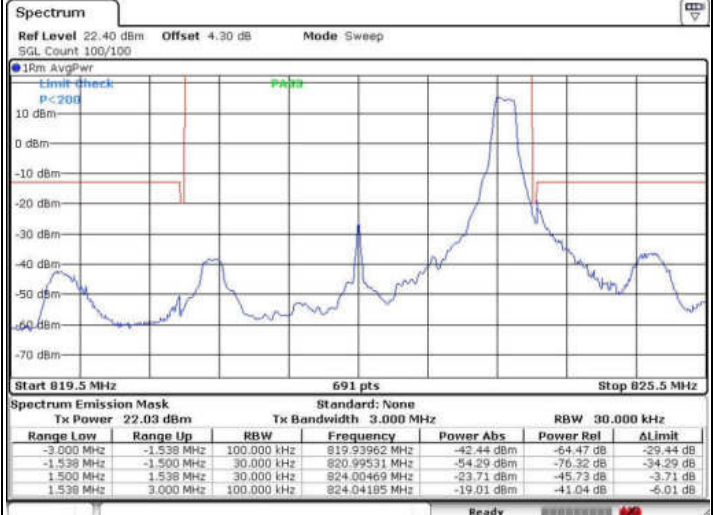
LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



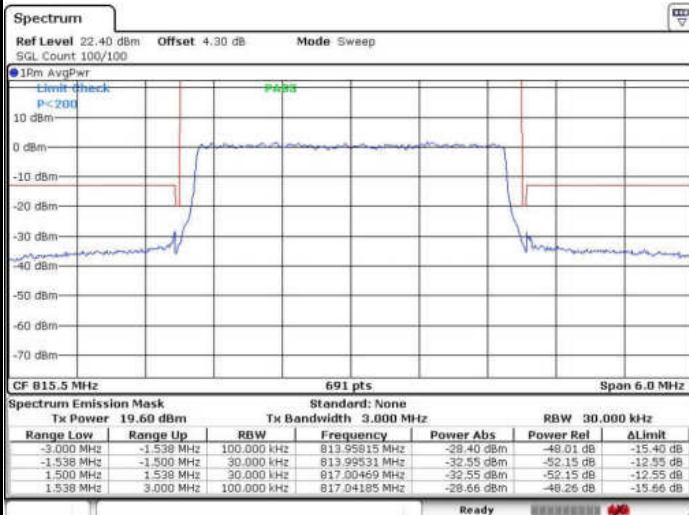
Date: 12 FEB 2018 15:11:52

Highest Band Edge / 1 RB



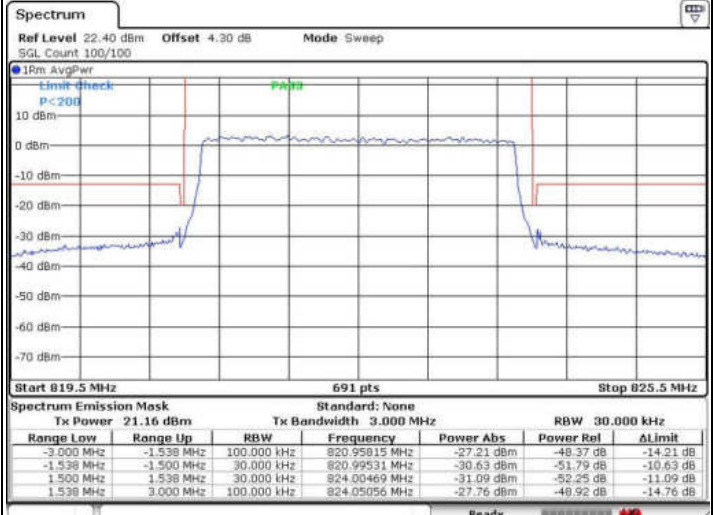
Date: 12 FEB 2018 15:15:38

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:13:15

Highest Band Edge / Full RB

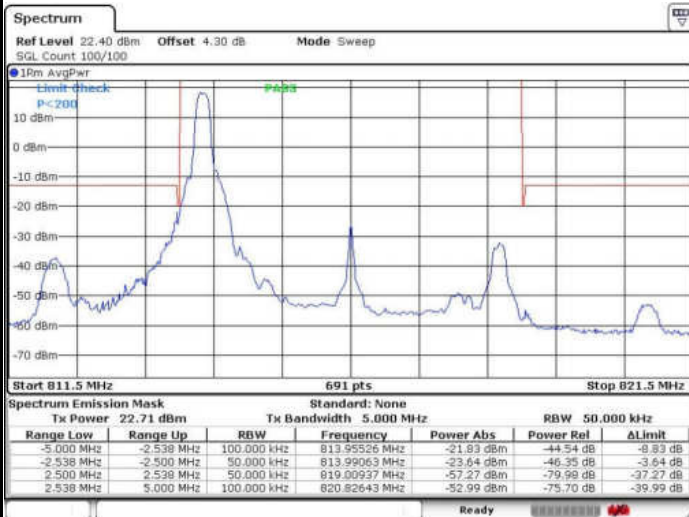


Date: 12 FEB 2018 15:17:17



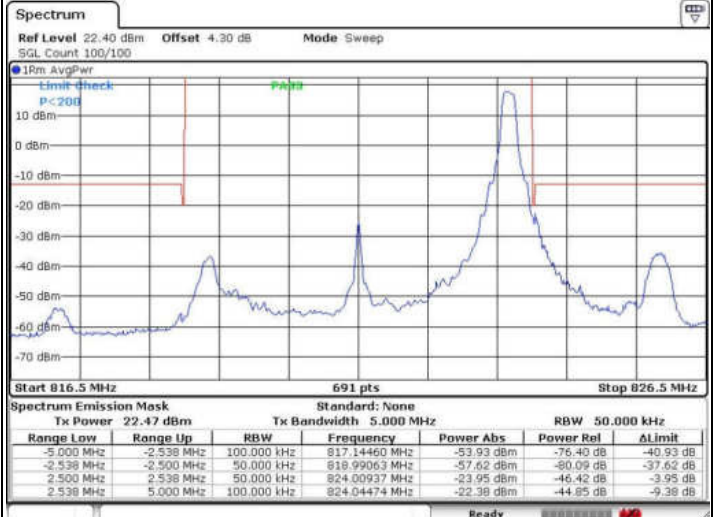
LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1 RB



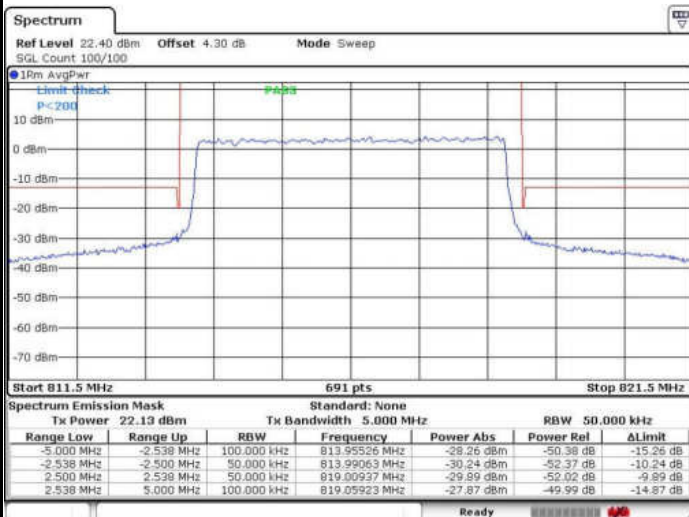
Date: 12 FEB 2018 15:19:28

Highest Band Edge / 1 RB



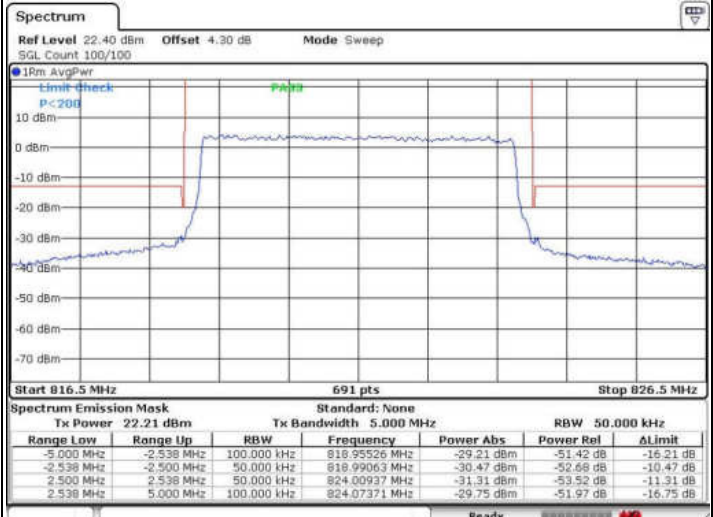
Date: 12 FEB 2018 15:22:52

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:21:38

Highest Band Edge / Full RB

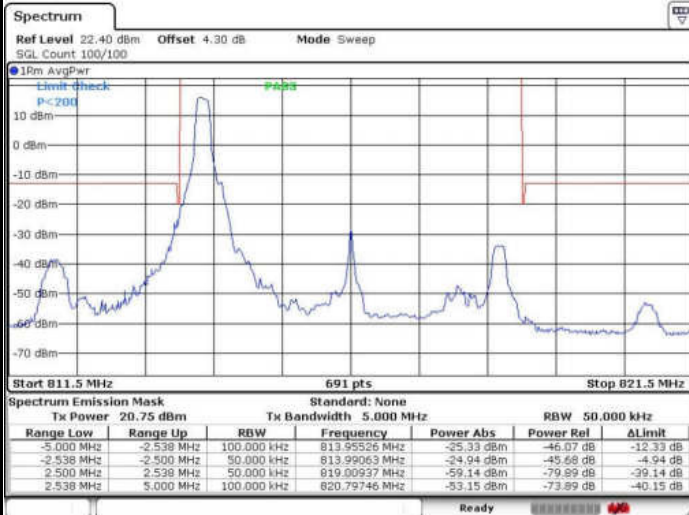


Date: 12 FEB 2018 15:28:16



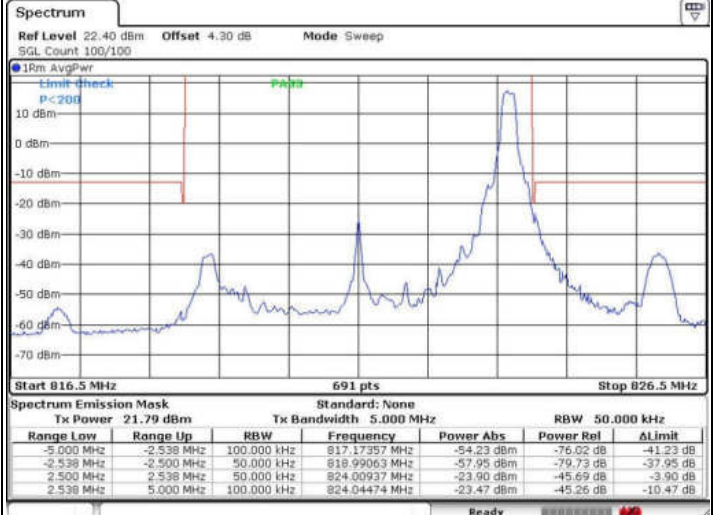
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1RB



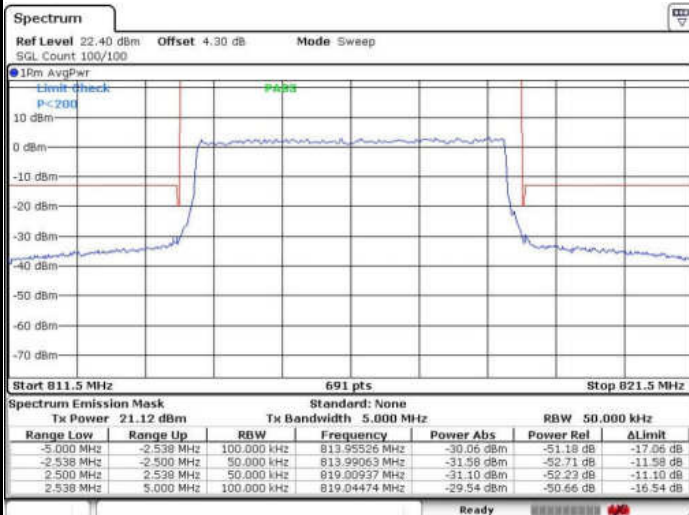
Date: 12 FEB 2018 15:20:15

Highest Band Edge / 1 RB



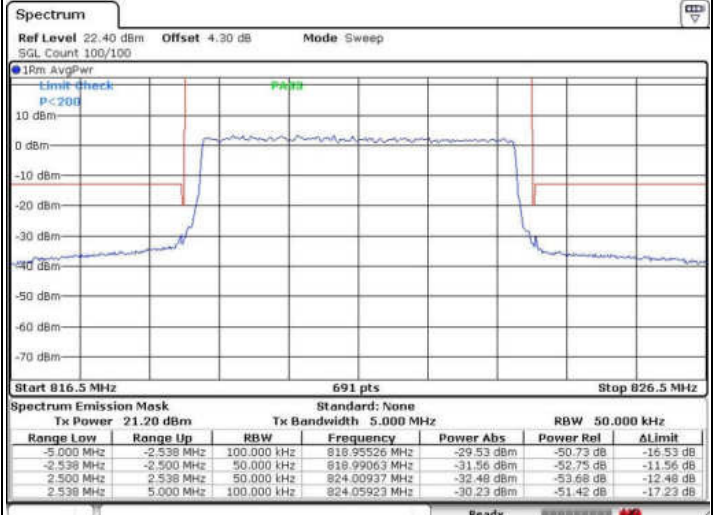
Date: 12 FEB 2018 15:23:17

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:21:17

Highest Band Edge / Full RB

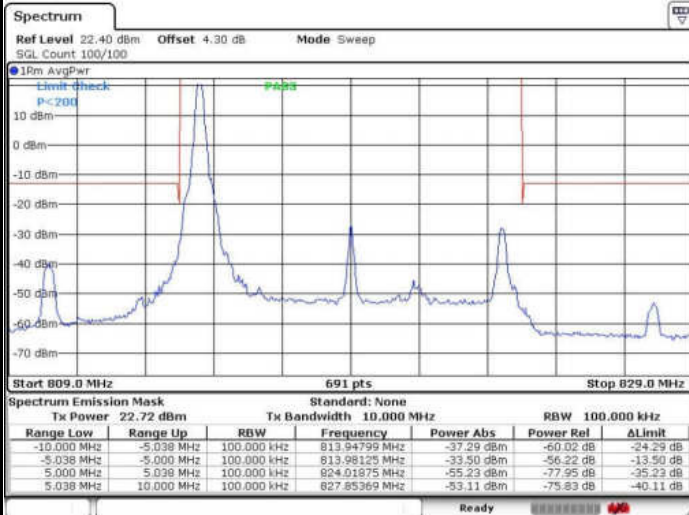


Date: 12 FEB 2018 15:25:59

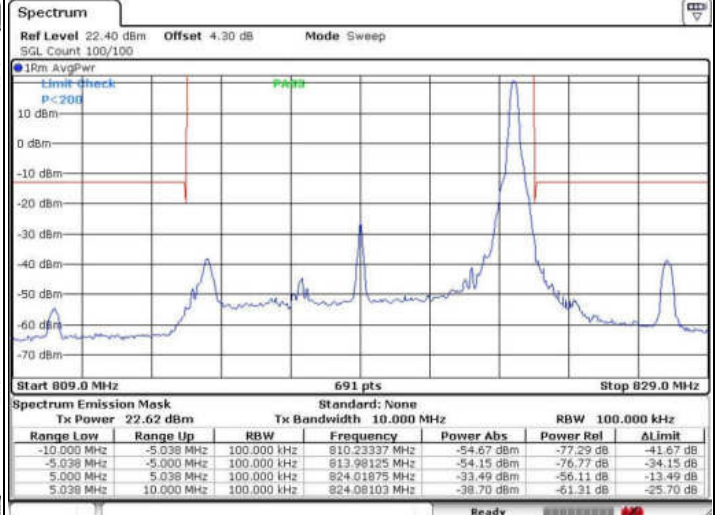


LTE Band 26 / 10MHz / QPSK

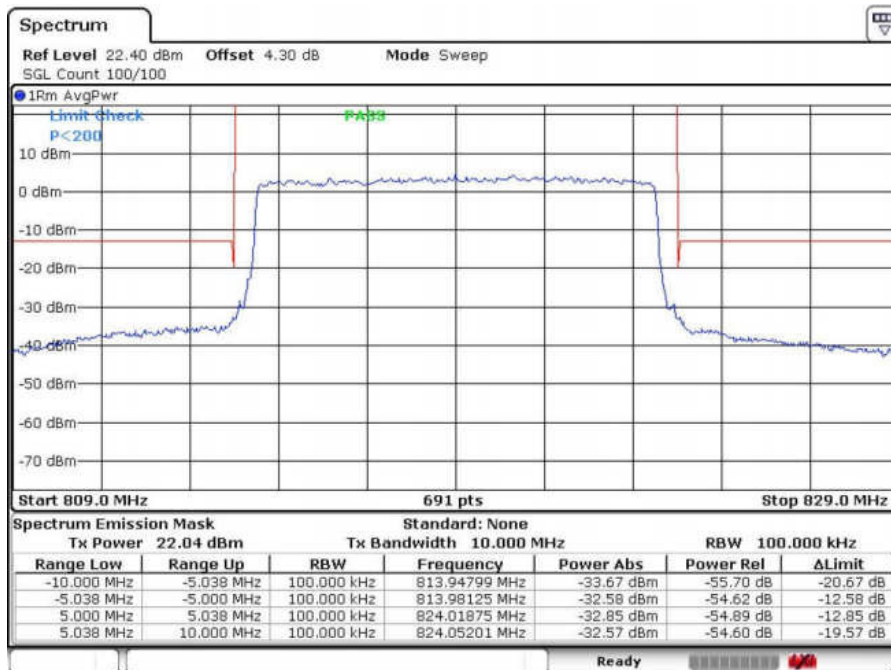
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



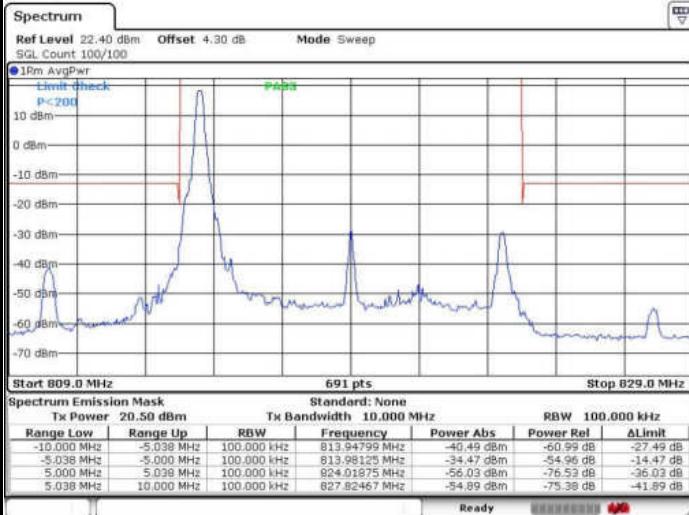
Band Edge / Full RB





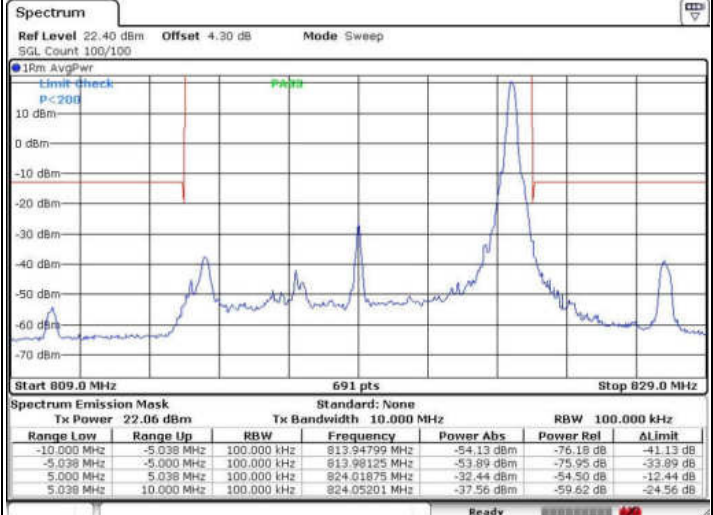
LTE Band 26 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



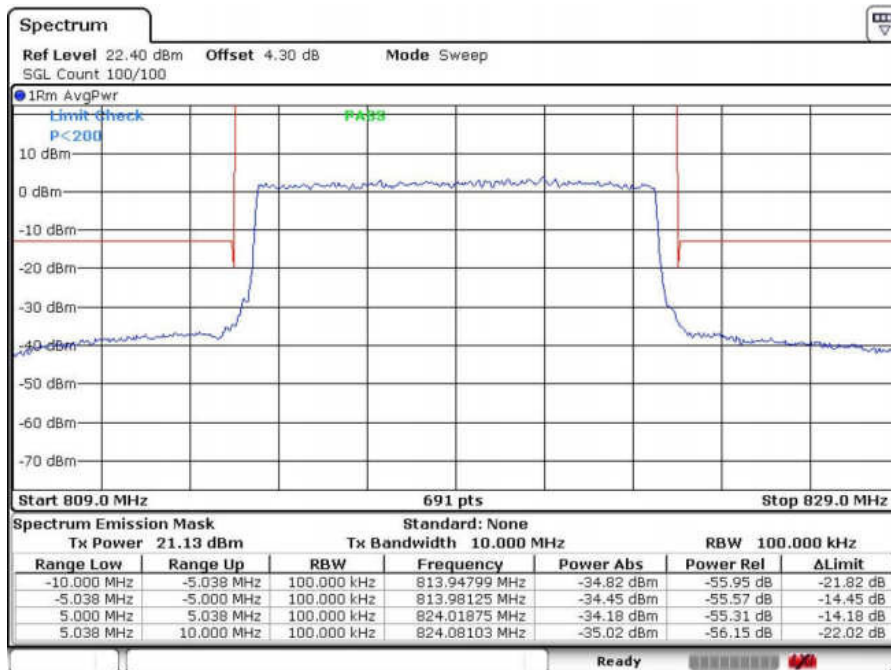
Date: 12 FEB 2018 15:28:45

Highest Band Edge / 1 RB



Date: 12 FEB 2018 15:30:05

Band Edge / Full RB

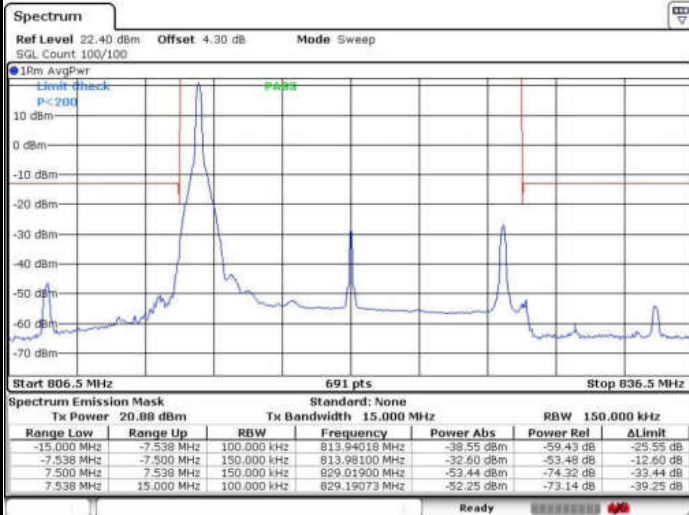


Date: 12 FEB 2018 15:31:47



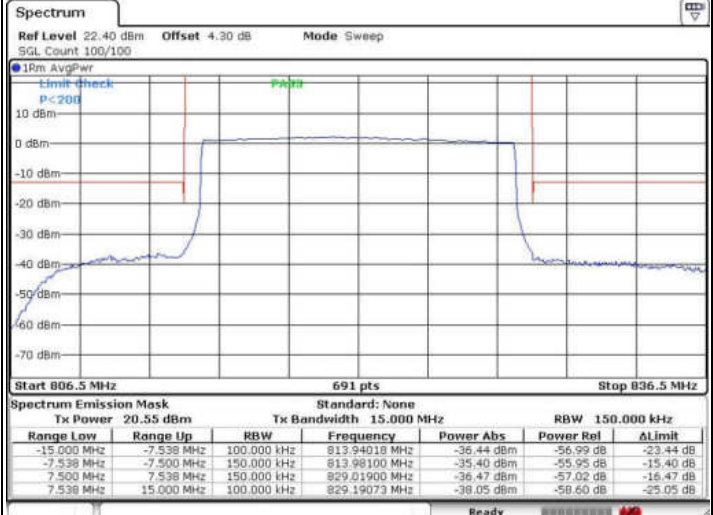
LTE Band 26 / 15MHz QPSK

Lowest Band Edge / 1 RB



Date: 12 FEB 2018 15:36:16

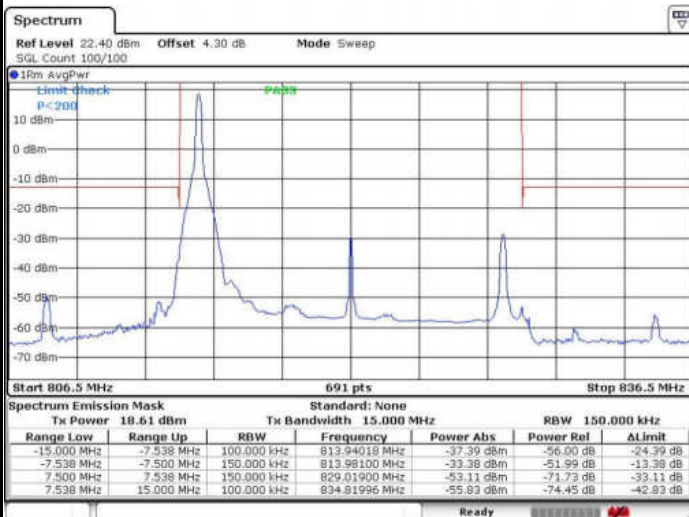
Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:39:51

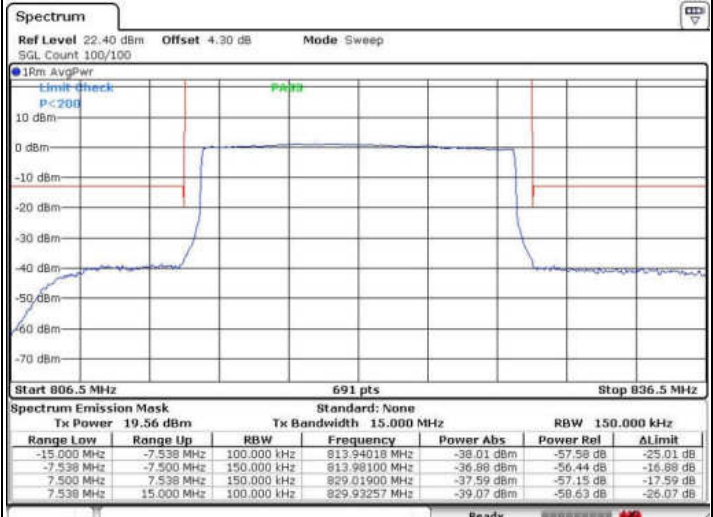
LTE Band 26 / 15MHz 16QAM

Lowest Band Edge / 1 RB



Date: 12 FEB 2018 15:37:03

Lowest Band Edge / Full RB

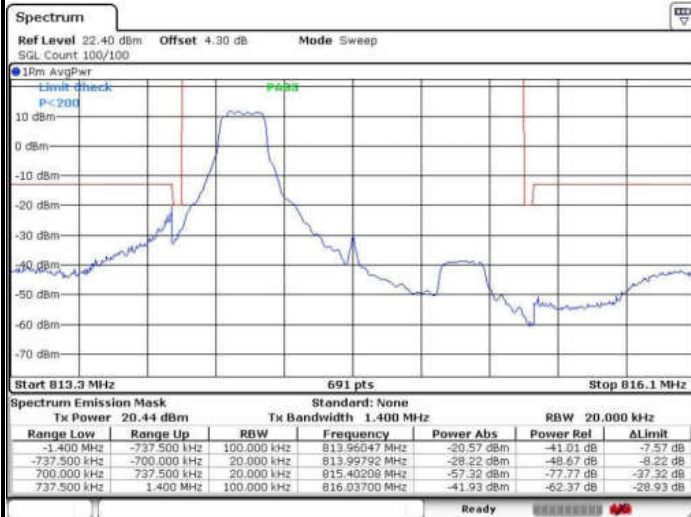


Date: 12 FEB 2018 15:39:16



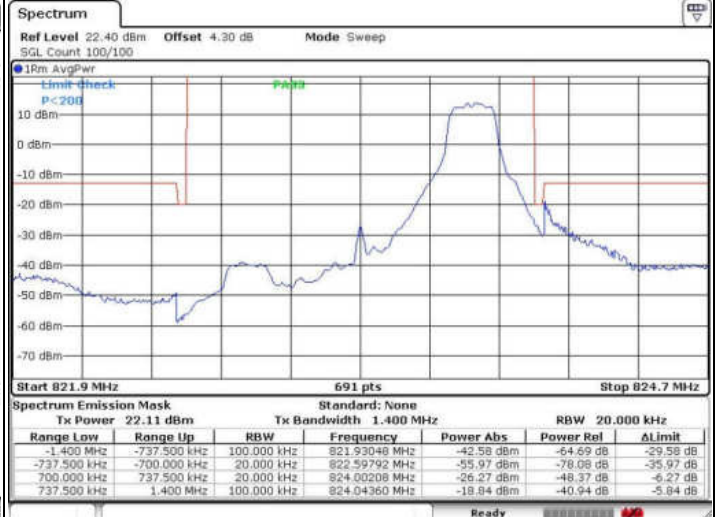
LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1RB



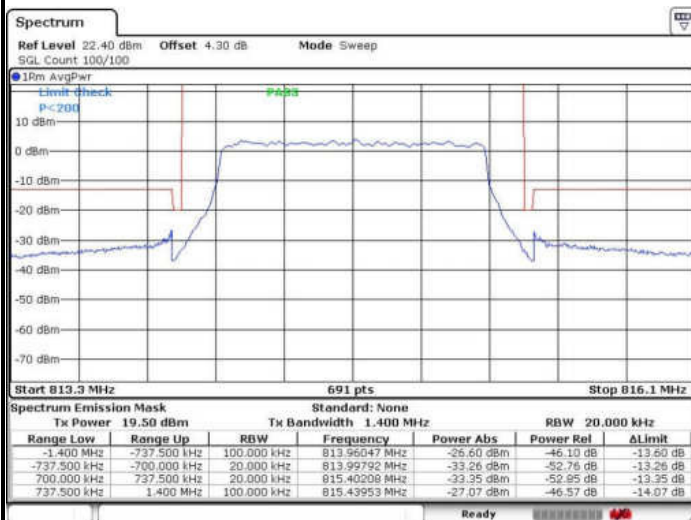
Date: 12 FEB 2018 15:03:40

Highest Band Edge / 1RB



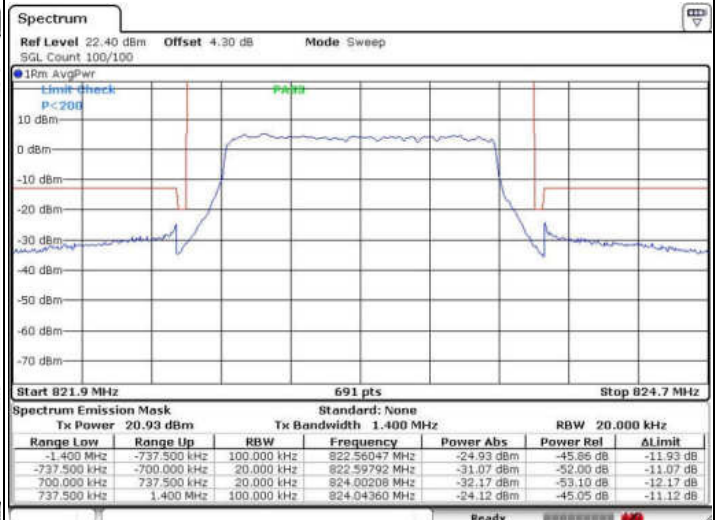
Date: 12 FEB 2018 15:07:40

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:04:07

Highest Band Edge / Full RB

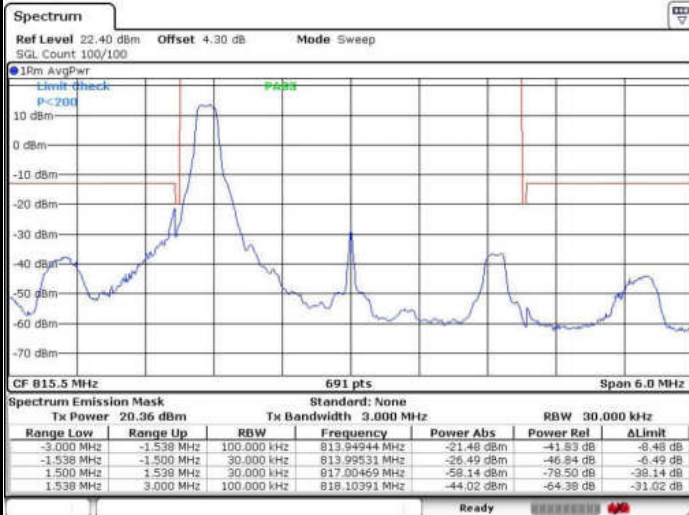


Date: 12 FEB 2018 15:08:02



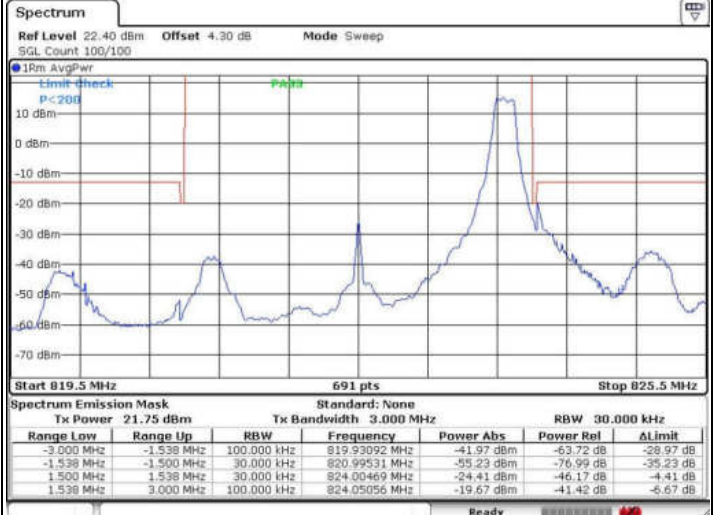
LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1RB



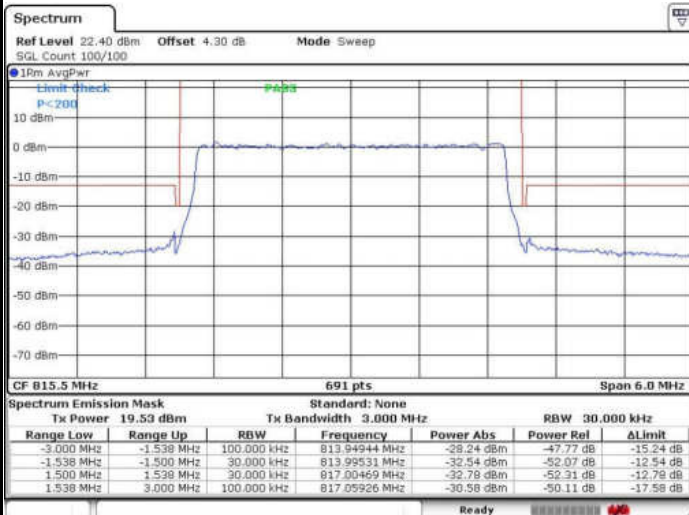
Date: 12 FEB 2018 15:12:14

Highest Band Edge / 1 RB



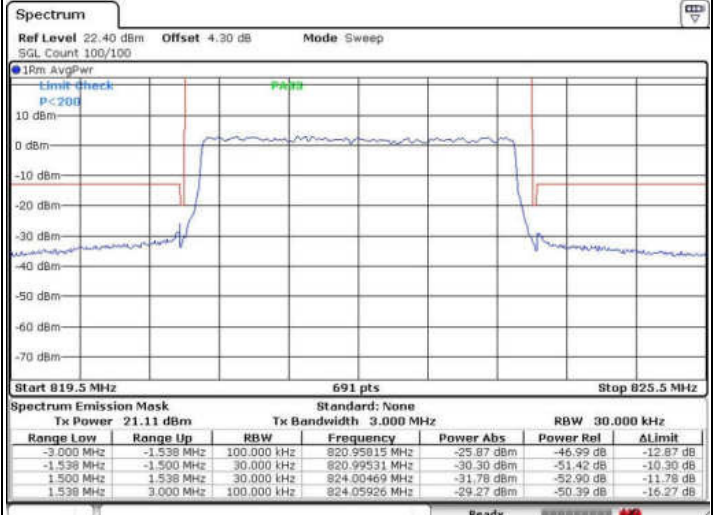
Date: 12 FEB 2018 15:15:18

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:12:34

Highest Band Edge / Full RB

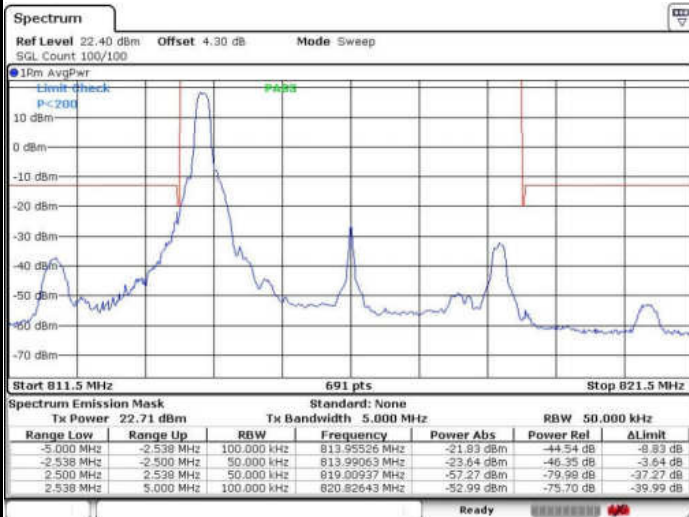


Date: 12 FEB 2018 15:15:42



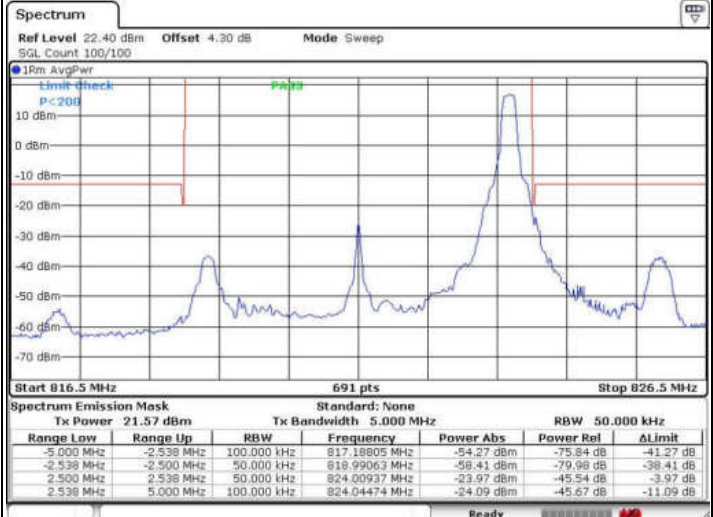
LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



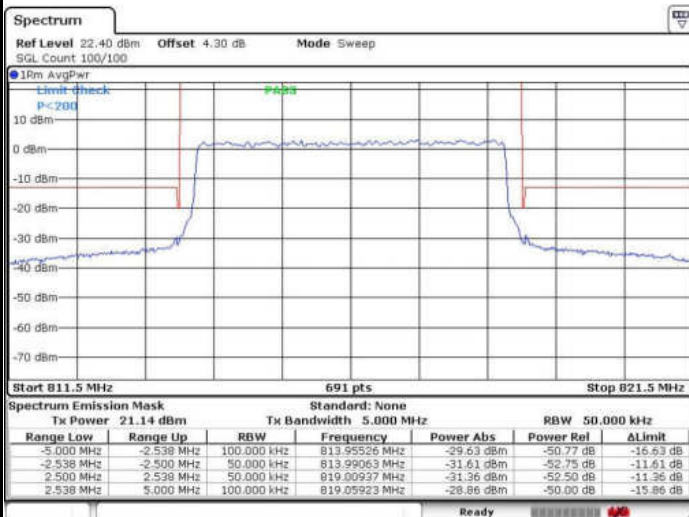
Date: 12 FEB 2018 15:19:28

Highest Band Edge / 1 RB



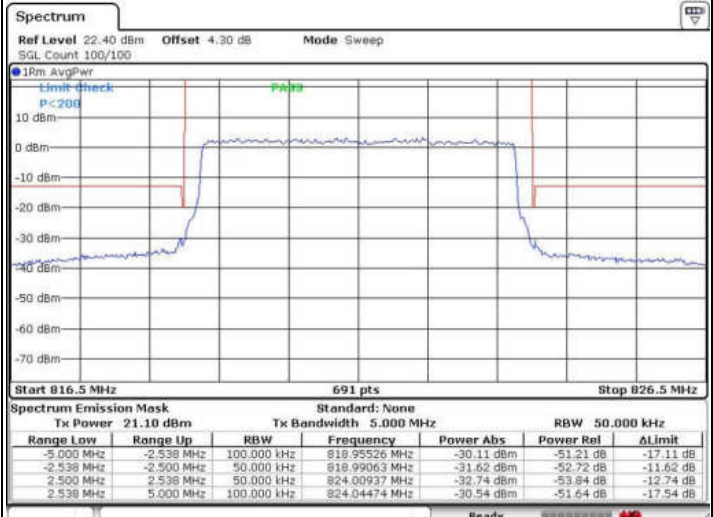
Date: 12 FEB 2018 15:23:53

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:20:57

Highest Band Edge / Full RB

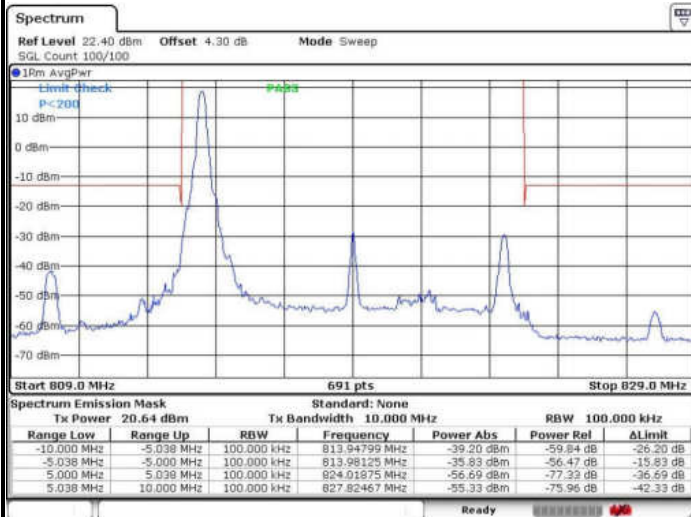


Date: 12 FEB 2018 15:25:28



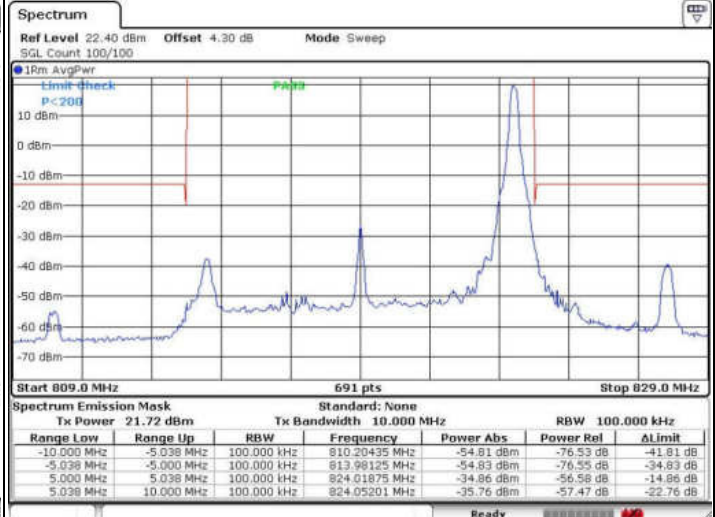
LTE Band 26 / 10MHz / 64QAM

Middle Band Edge / 1 RB0



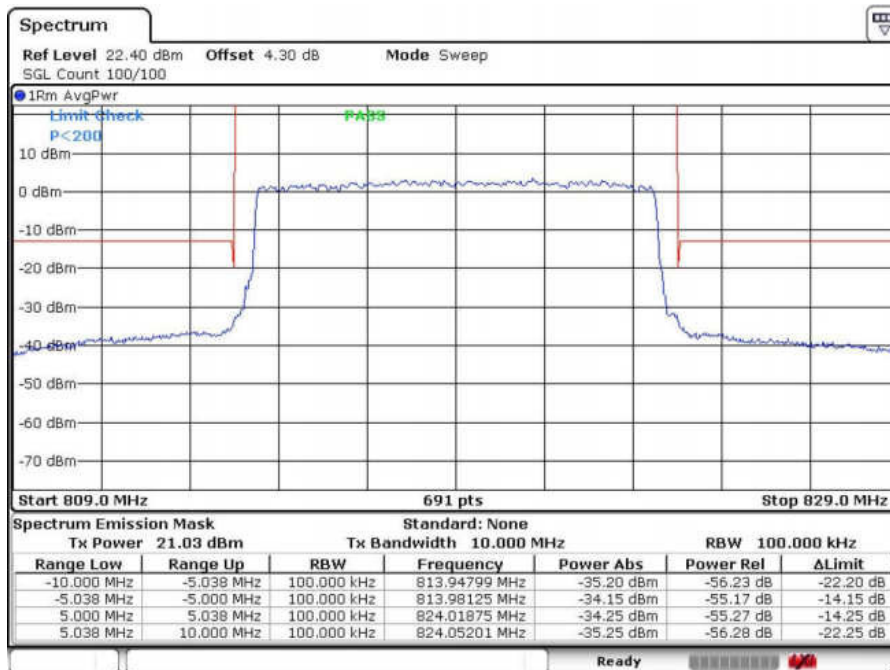
Date: 12 FEB 2018 15:29:08

Middle Band Edge / 1 RBmax



Date: 12 FEB 2018 15:29:45

Middle Band Edge / Full RB

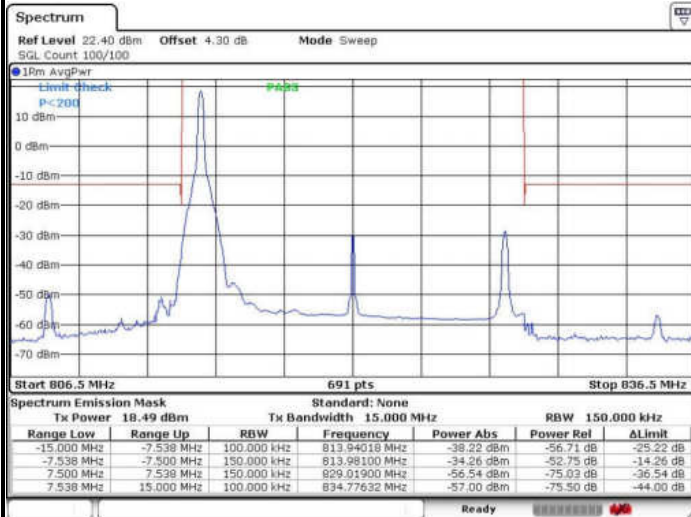


Date: 12 FEB 2018 15:32:20



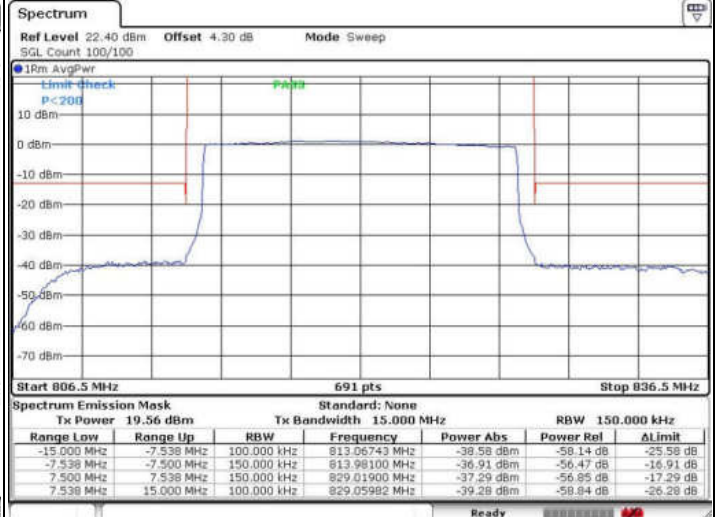
LTE Band 26 / 15MHz / 64QAM

Lowest Band Edge / 1 RB0



Date: 12 FEB 2018 15:37:40

Lowest Band Edge / Full RB



Date: 12 FEB 2018 15:38:15

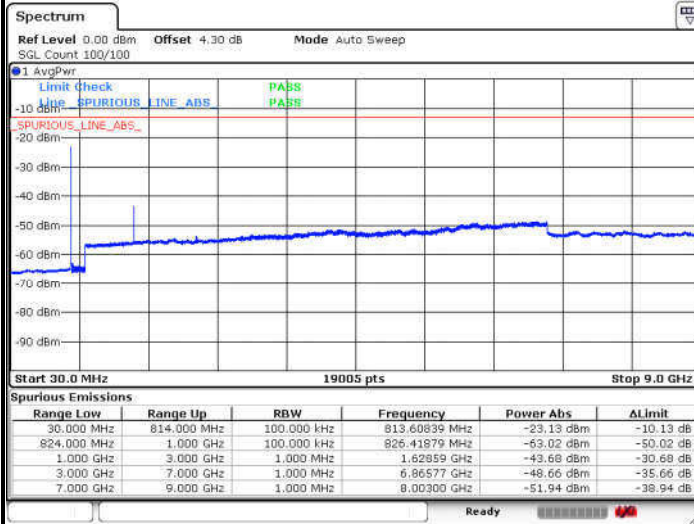


Conducted Spurious Emission



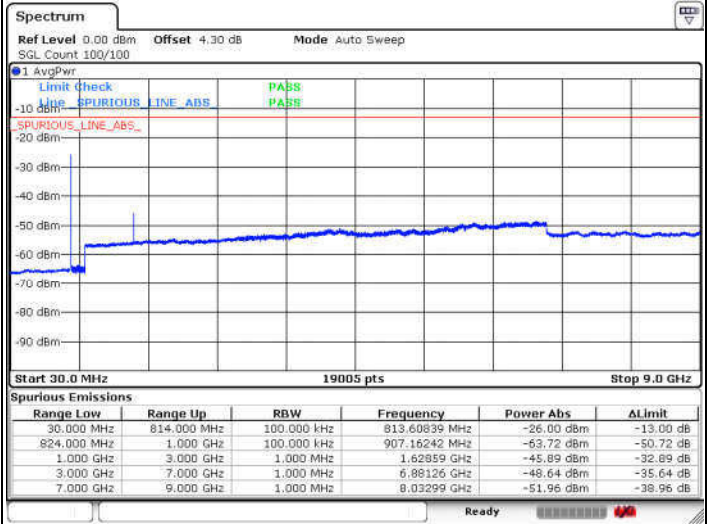
LTE Band 26 / 1.4MHz

Lowest Channel / QPSK



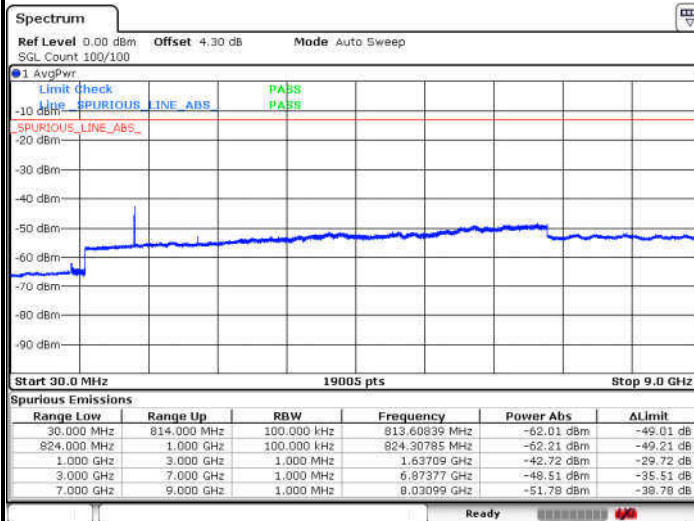
Date: 12.FEB.2018 21:11:20

Lowest Channel / 16QAM



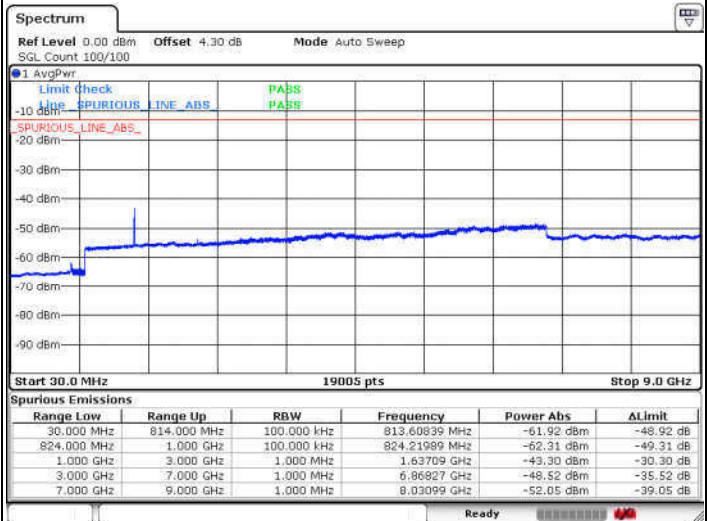
Date: 12.FEB.2018 21:12:37

Middle Channel / QPSK



Date: 12.FEB.2018 21:15:24

Middle Channel / 16QAM

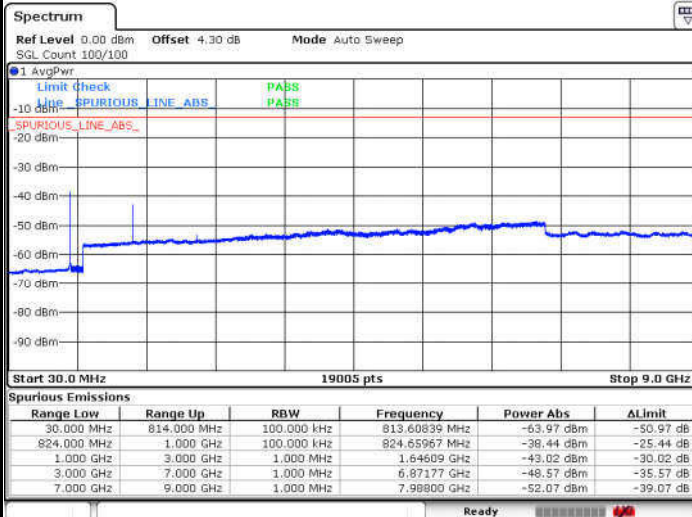


Date: 12.FEB.2018 21:14:34



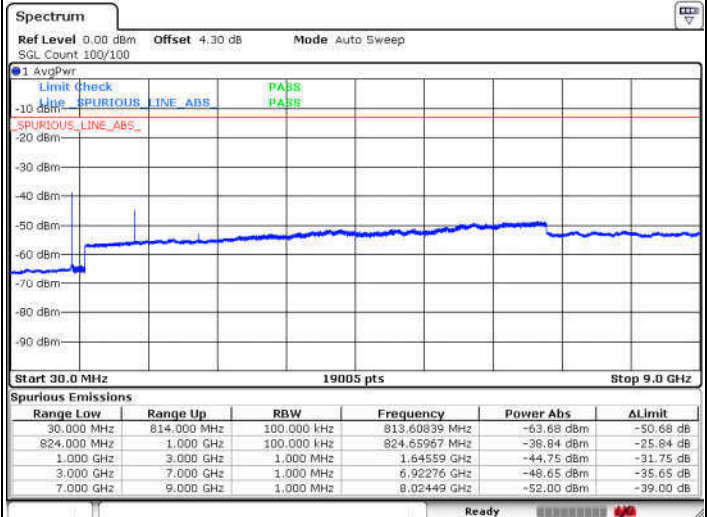
LTE Band 26 / 1.4MHz

Highest Channel / QPSK



Date: 12.FEB.2018 21:15:56

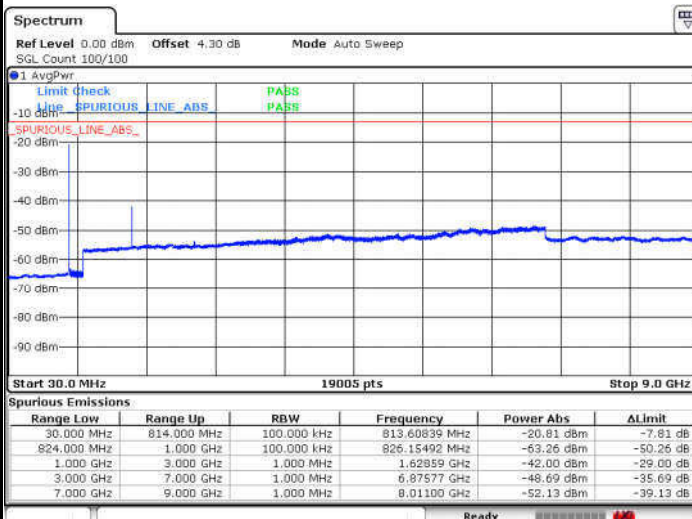
Highest Channel / 16QAM



Date: 12.FEB.2018 21:16:57

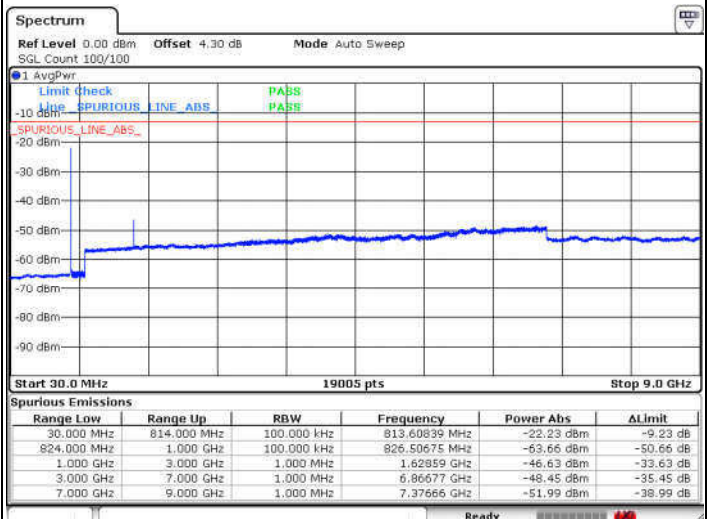
LTE Band 26 / 3MHz

Lowest Channel / QPSK



Date: 12.FEB.2018 21:19:41

Lowest Channel / 16QAM

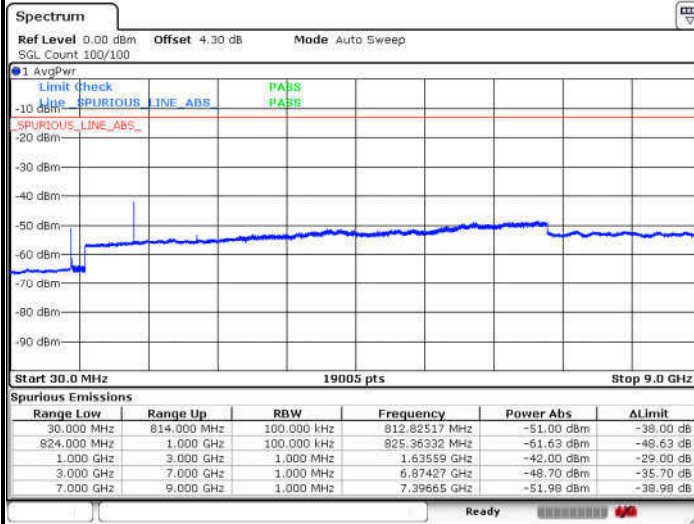


Date: 12.FEB.2018 21:19:10



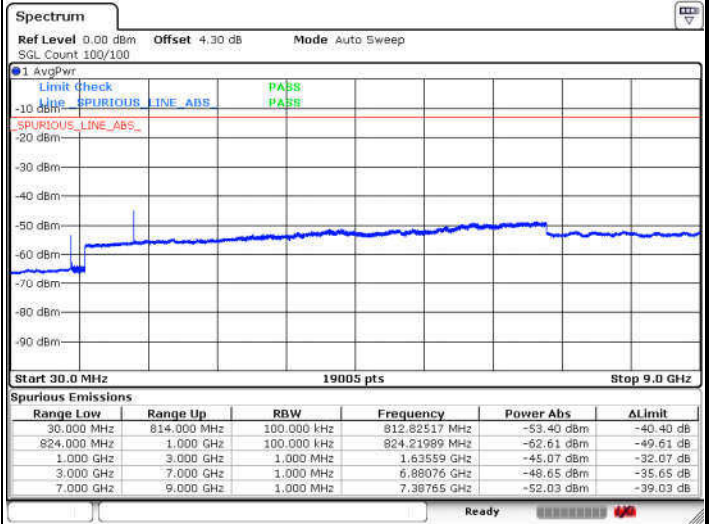
LTE Band 26 / 3MHz

Middle Channel / QPSK



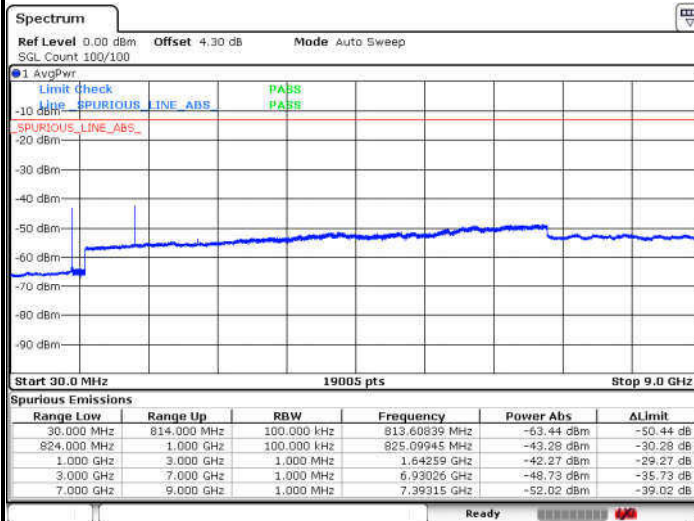
Date: 12.FEB.2018 21:20:20

Middle Channel / 16QAM



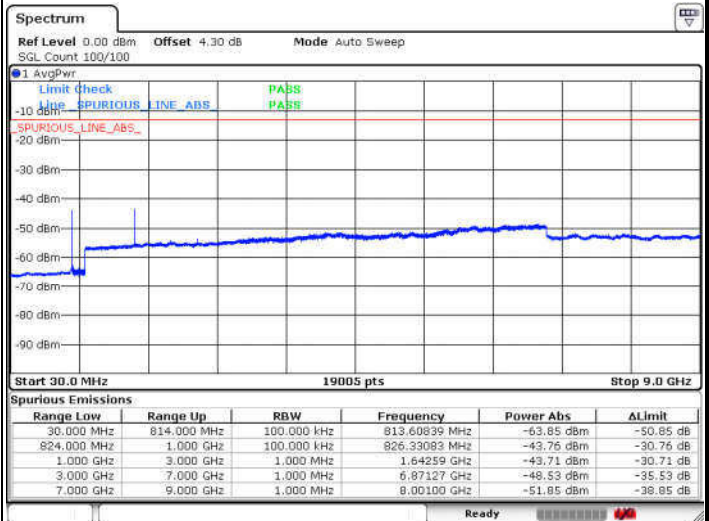
Date: 12.FEB.2018 21:20:51

Highest Channel / QPSK



Date: 12.FEB.2018 21:23:14

Highest Channel / 16QAM

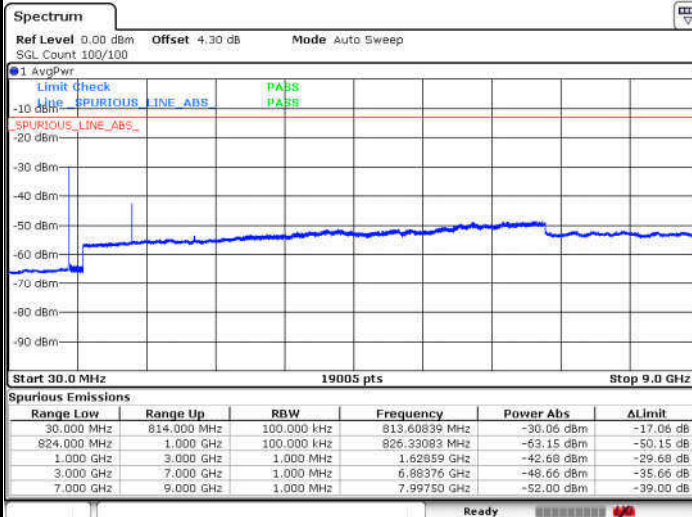


Date: 12.FEB.2018 21:22:45



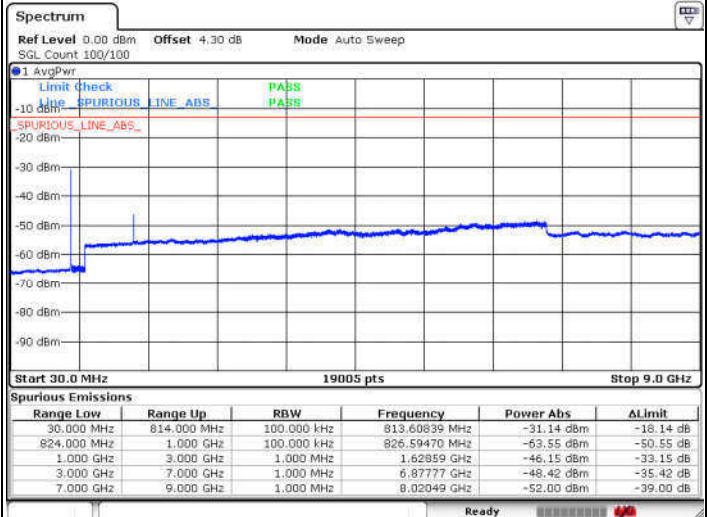
LTE Band 26 / 5MHz

Lowest Channel / QPSK



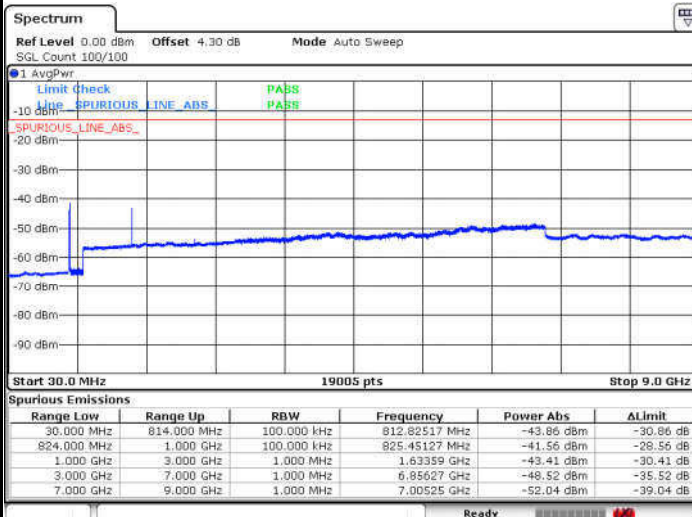
Date: 12.FEB.2018 21:24:44

Lowest Channel / 16QAM



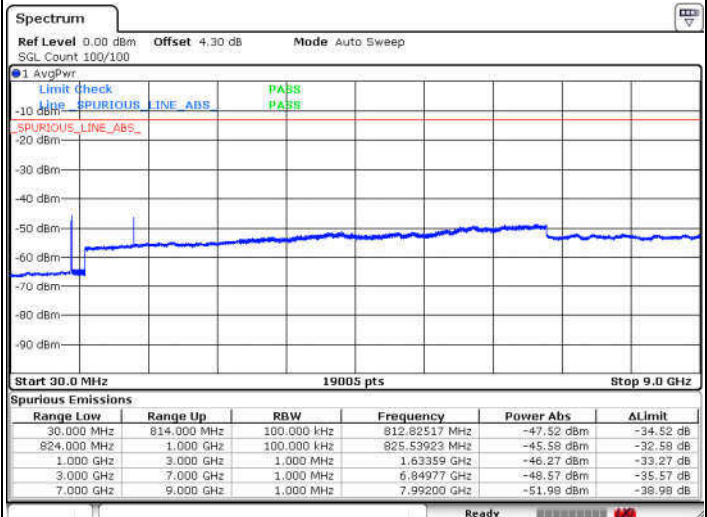
Date: 12.FEB.2018 21:25:18

Middle Channel / QPSK



Date: 12.FEB.2018 21:27:29

Middle Channel / 16QAM

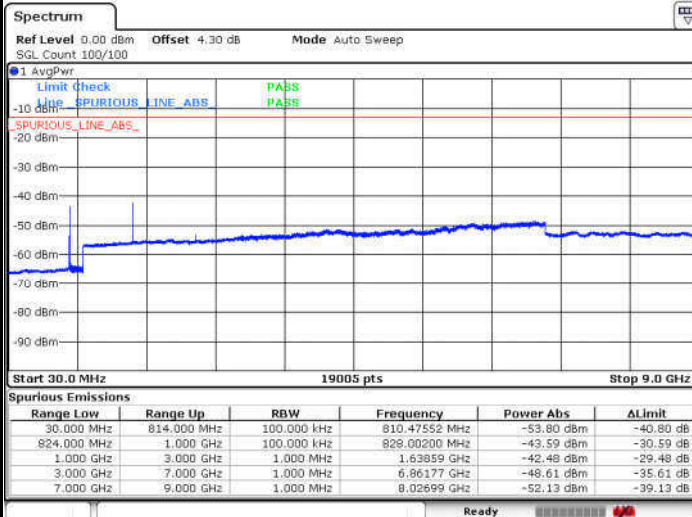


Date: 12.FEB.2018 21:26:59



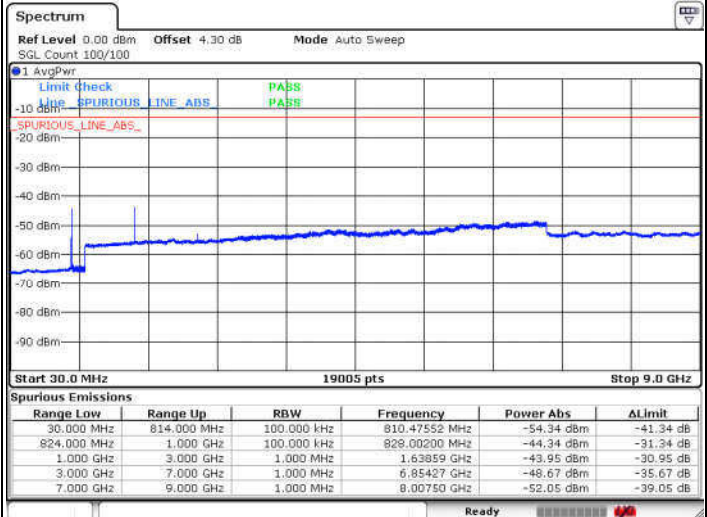
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 12.FEB.2018 21:28:55

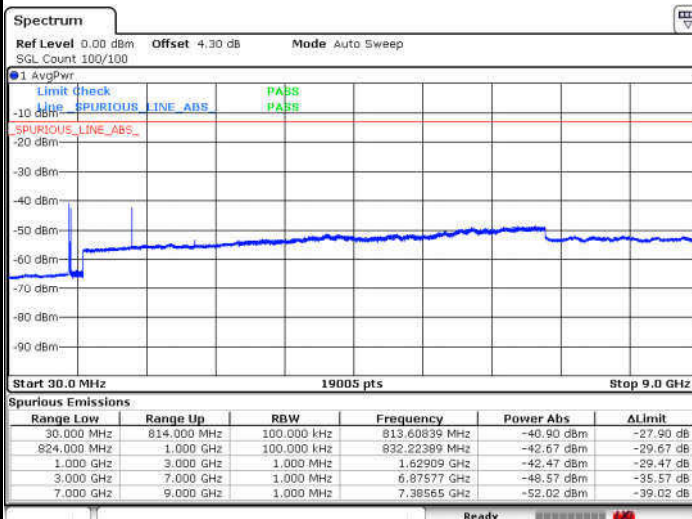
Highest Channel / 16QAM



Date: 12.FEB.2018 21:29:27

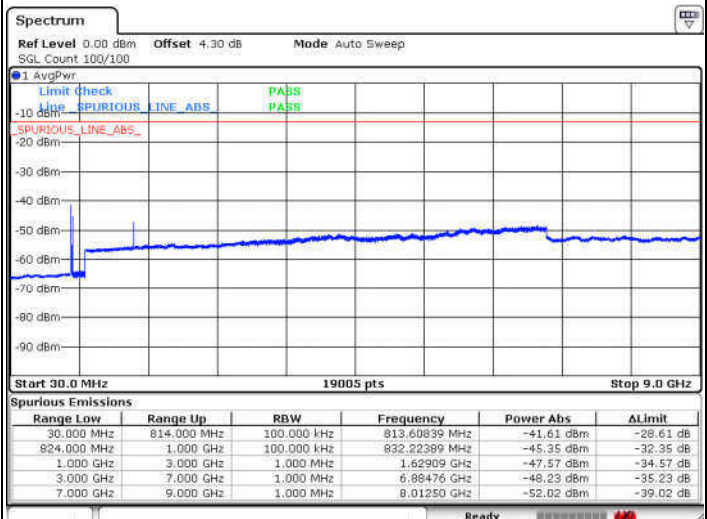
LTE Band 26 / 10MHz

Middle Channel / QPSK



Date: 12.FEB.2018 21:31:54

Middle Channel / 16QAM

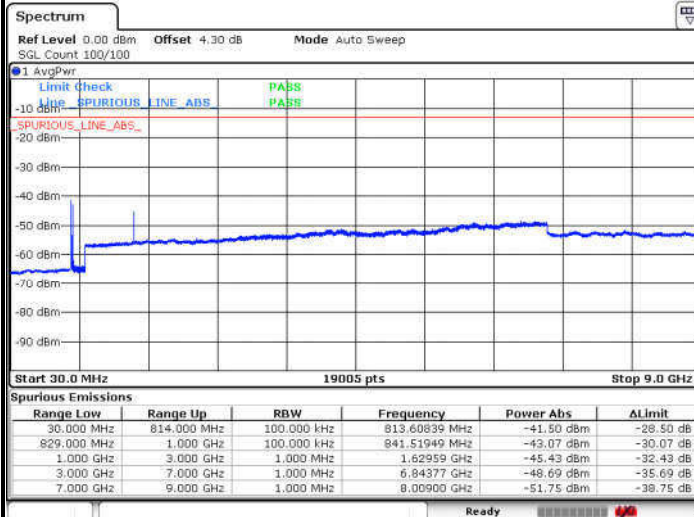


Date: 12.FEB.2018 21:31:30



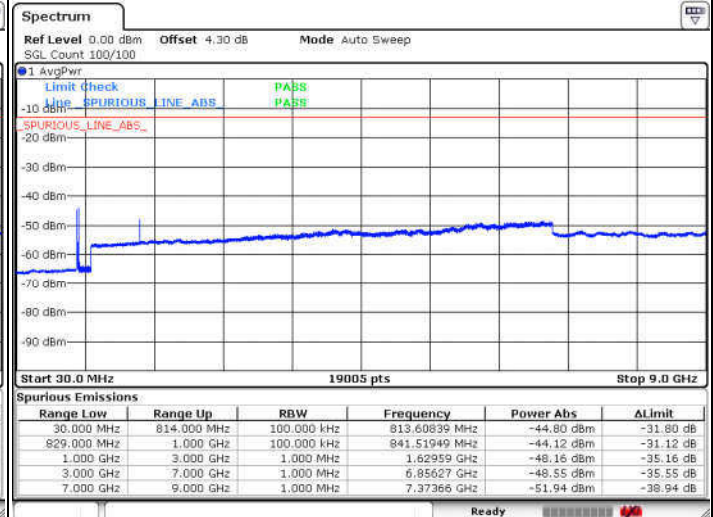
LTE Band 26 / 15MHz

Lowest Channel / QPSK



Date: 12.FEB.2018 21:36:45

Lowest Channel / 16QAM

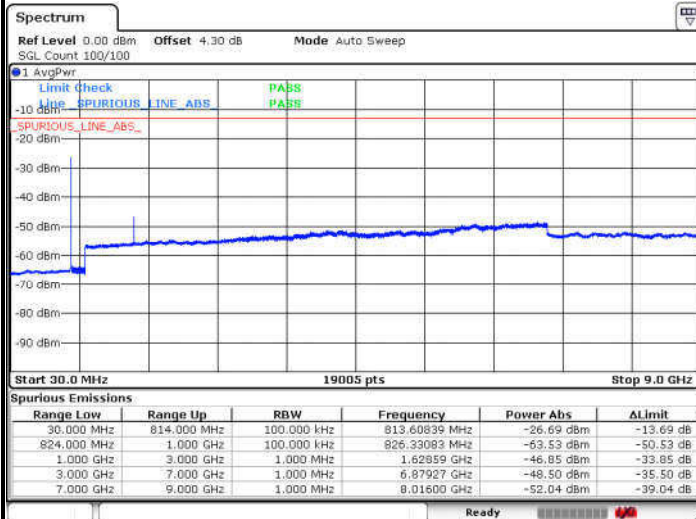


Date: 12.FEB.2018 21:36:19



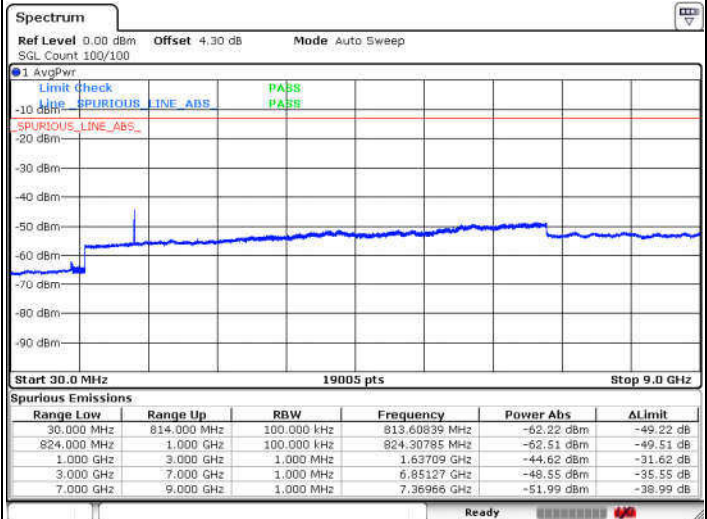
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



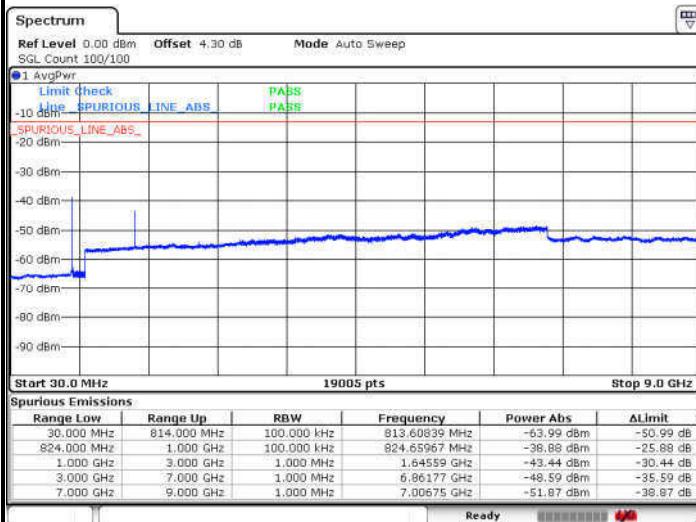
Date: 12.FEB.2018 21:13:05

Middle Channel / 64QAM



Date: 12.FEB.2018 21:13:42

Highest Channel / 64QAM

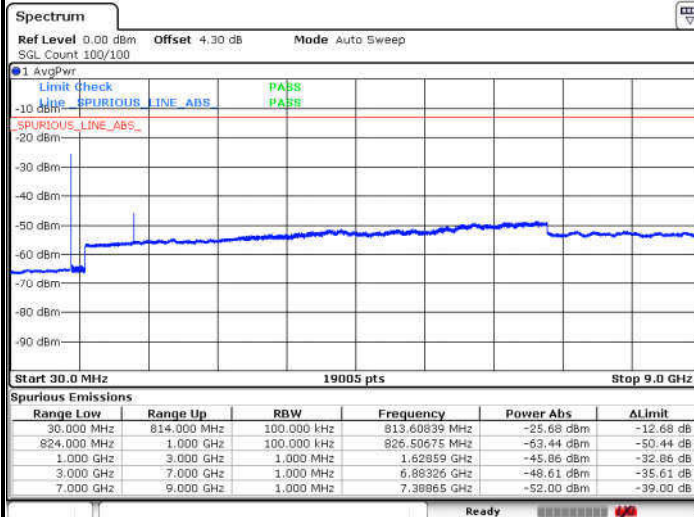


Date: 12.FEB.2018 21:17:30



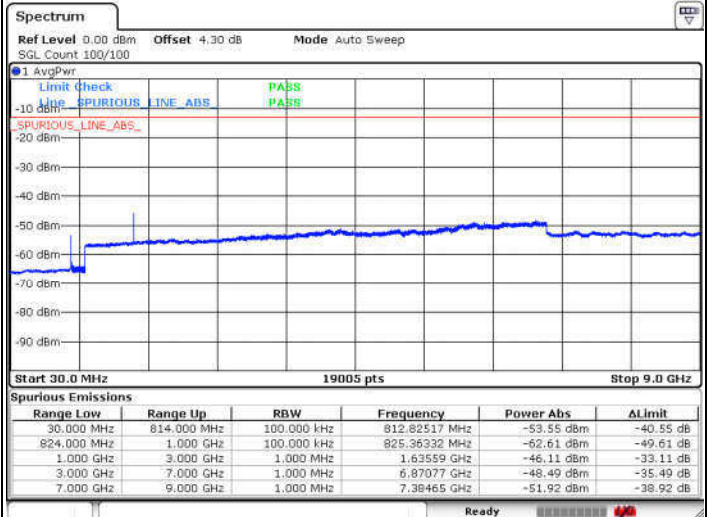
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



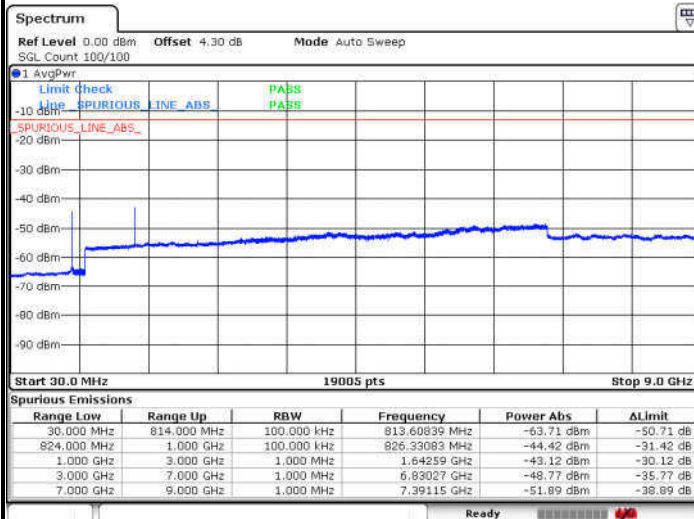
Date: 12.FEB.2018 21:18:32

Middle Channel / 64QAM



Date: 12.FEB.2018 21:21:22

Highest Channel / 64QAM

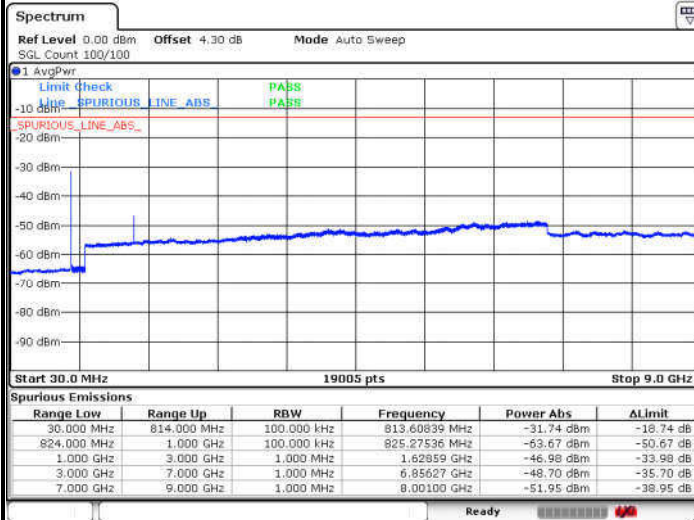


Date: 12.FEB.2018 21:22:04



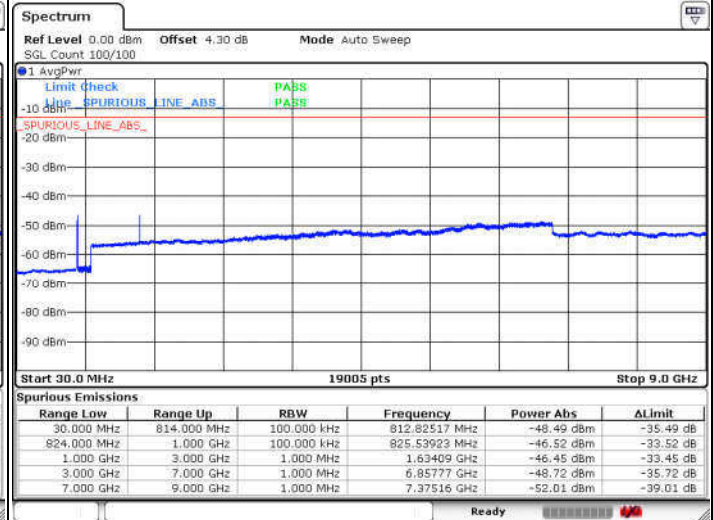
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



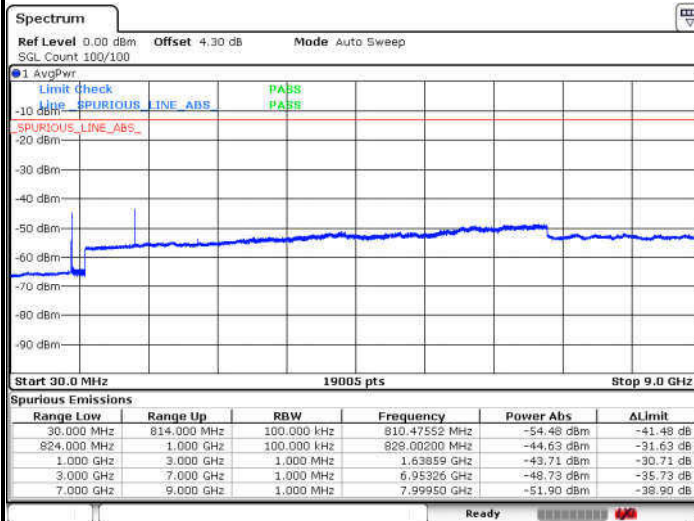
Date: 12.FEB.2018 21:25:48

Middle Channel / 64QAM



Date: 12.FEB.2018 21:26:25

Highest Channel / 64QAM

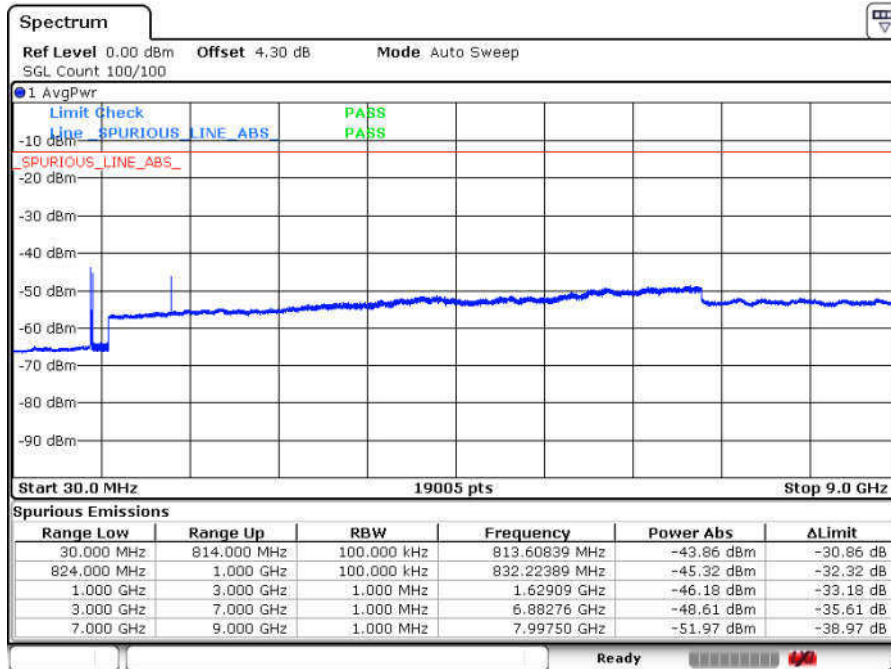


Date: 12.FEB.2018 21:29:56



LTE Band 26 / 10MHz

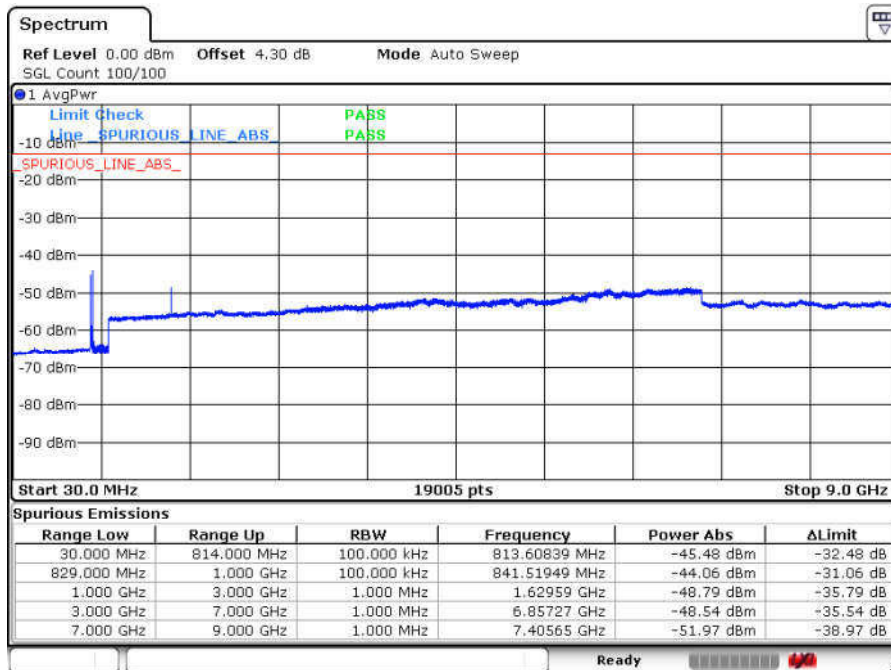
Middle Channel / 64QAM



Date: 12.FEB.2018 21:30:50

LTE Band 26 / 15MHz

Lowest Channel / 64QAM



Date: 12.FEB.2018 21:35:55

**Frequency Stability**

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0062	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0076	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0082	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0092	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0072	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

LTE Band 26 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1630	-69.37	-13	-56.37	-74.46	-71.28	1.14	5.20	H
	2444	-64.86	-13	-51.86	-75.97	-67.49	1.12	5.90	H
	3258	-67.24	-13	-54.24	-77.21	-70.45	1.34	6.70	H
	1630	-68.71	-13	-55.71	-74.04	-70.62	1.14	5.20	V
	2444	-66.29	-13	-53.29	-75.95	-68.92	1.12	5.90	V
	3258	-67.12	-13	-54.12	-77.25	-70.33	1.34	6.70	V

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