FCC RF Test Report

APPLICANT	: Motorola Mobility LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
PRODUCT ID	: 10644
FCC ID	: IHDT56WD1
STANDARD	: 47 CFR Part 2, 27(M)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 27, 2017 and completely tested on May 27, 2017. We, Sporton International (KunShan) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

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

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager

Testing Laboratory 2627

Sporton International (KunShan) INC.
No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG732707-01	Rev. 01	Initial issue of report	May 29, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 41)	EIRP < 2Watt	PASS	-
3.5	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.6	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)	PASS	-
3.7	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	Under limit 27.77 dB at 10032.800 MHz

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 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Product ID	10644
FCC ID	IHDT56WD1
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/DC-HSDPA/LTE/ WLAN2.4GHz 802.11b/g/n HT20/ WLAN5GHz 802.11a/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE Bluetooth v4.1 LE/ Bluetooth v4.2 LE
IMEI Code	Conducted: NA Radiation: 355668080020576
HW Version	DVT1
SW Version	NPR26.7
EUT Stage	Identical Prototype

Remark: This is a variant report for 10644. The difference between previous and current is opening LTE Band 41 CA uplink function via software. All the test cases for other bands were performed on the original test report which can be referred to Sporton Report Number FG732707B. Based on the similarity between current and previous project, only the LTE Band 41 CA uplink full test.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 869.7 MHz ~ 893.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz~ 2199.3 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 41 : 23.80 dBm
Antenna Gain	LTE Band 41 : 0.21 dBi
Type of Modulation	QPSK / 16QAM

1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola (Acbel)	**Model Name**	C-P35 SPN5945A
	Power Rating	I/P: 100 - 240 Vac, 300 mA, O/P: 5.2 Vdc, 2000 mA		
AC Adapter 2	**Brand Name**	Motorola (Salom)	**Model Name**	SSW-2919UMTJ C-P35 SPN5945A
	Power Rating	I/P: 100 - 240 Vac, 300 mA, O/P: 5.2 Vdc, 2000 mA		
Battery	**Brand Name**	Motorola (Amperex)	**Model Name**	HE50
	Power Rating	3.8Vdc, 5000mAh	**Type**	Li-ion
USB Cable	**Brand Name**	Motorola	**Model Name**	SKN6462A
	Signal Line Type	1.00 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 EIRP Power, and Emission Designator

LTE Band 41 CA	QPSK		16QAM	
BW (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5MHz+20MHz	23M5G7D	0.2244	23M2W7D	0.2046
10MHz+20MHz	28M0G7D	0.2143	27M9W7D	0.1954
15MHz+15MHz	28M5G7D	0.2518	28M6W7D	0.2518
15MHz+20MHz	32M9G7D	0.2350	32M5W7D	0.1923
20MHz+5MHz	23M4G7D	0.2323	23M1W7D	0.2350
20MHz+10MHz	27M9G7D	0.2244	27M9W7D	0.2350
20MHz+15MHz	32M9G7D	0.2244	32M6W7D	0.2296
20MHz+20MHz	37M6G7D	0.2296	37M2W7D	0.2460

1.8 Testing Location

Test Site	Sporton International (KunShan) INC.
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
Test Site No.	**Sporton Site No.**
	TH01-KS

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	**Sporton Site No.**	**FCC/IC Registration No.**
	03CH03-SZ	565805/4086F

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

1.9 Applicable Standards

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

- 47 CFR Part 2, 27(M)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

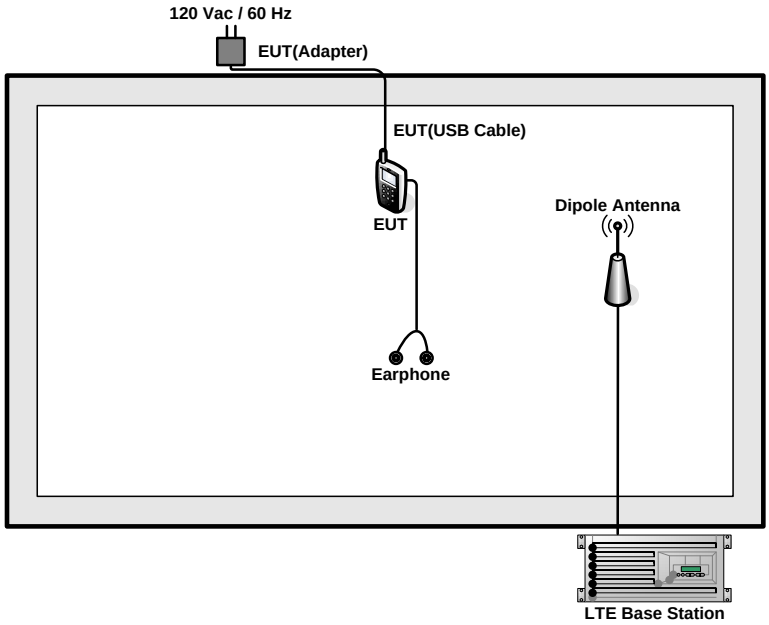
1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

2.2 Connection Diagram of Test System

LTE Band 41 CA



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Lenovo	LH102	N/A	Unshielded,1.2m	N/A

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 and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
The following shows an offset computation example with RF cable loss 1.8 dB and a 10dB attenuator.

Example :
Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 1.8 + 10 = 11.8 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 41 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

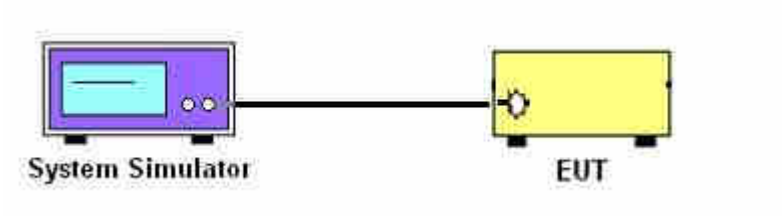
3 Conducted Test Items

3.1 Measuring Instruments

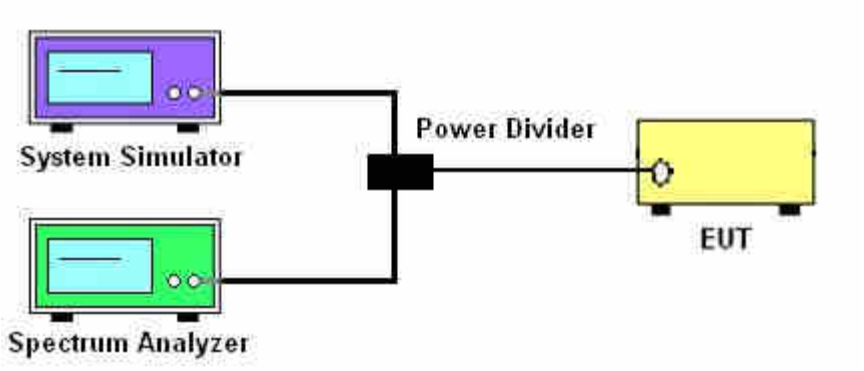
See list of measuring instruments of this test report.

3.2 Test Setup

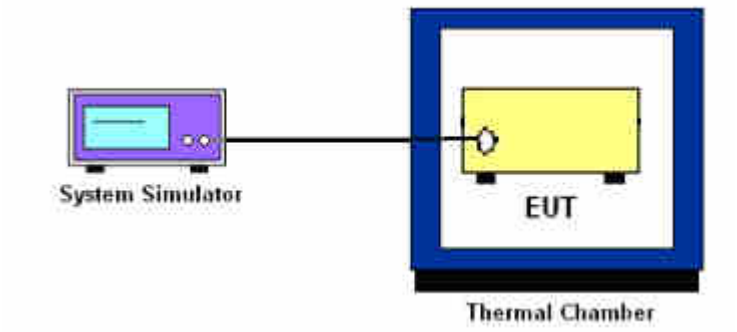
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 41.

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

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

3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The 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 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.1 and 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor =10 log (1/x), where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.
   Example:
   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.
10. For LTE Band 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 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 10^{th} harmonic.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. Offset has included the duty factor for LTE Band 38/41. Duty factor =10 log (1/x), where x is the measured duty cycle
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. 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.
12. For Band 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

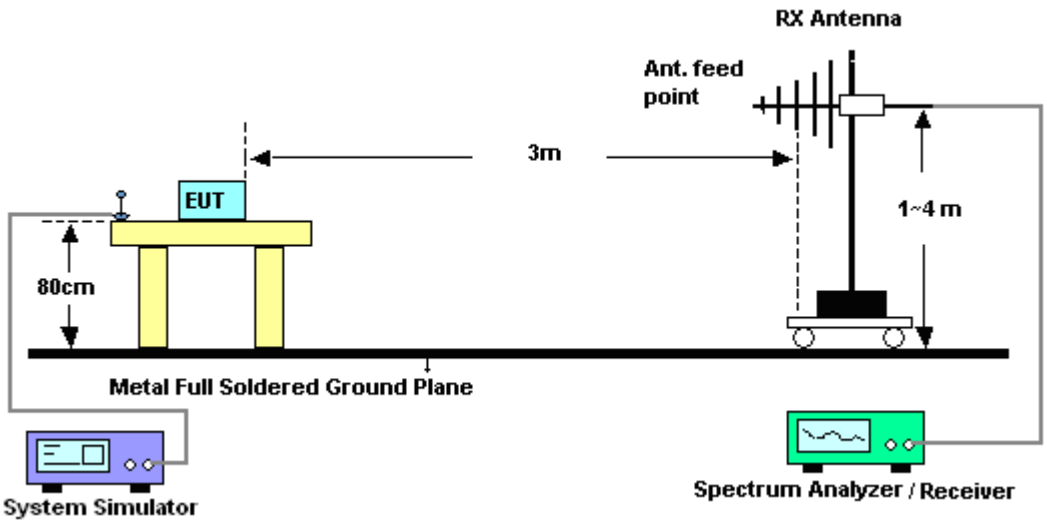
4 Radiated Test Items

4.1 Measuring Instruments

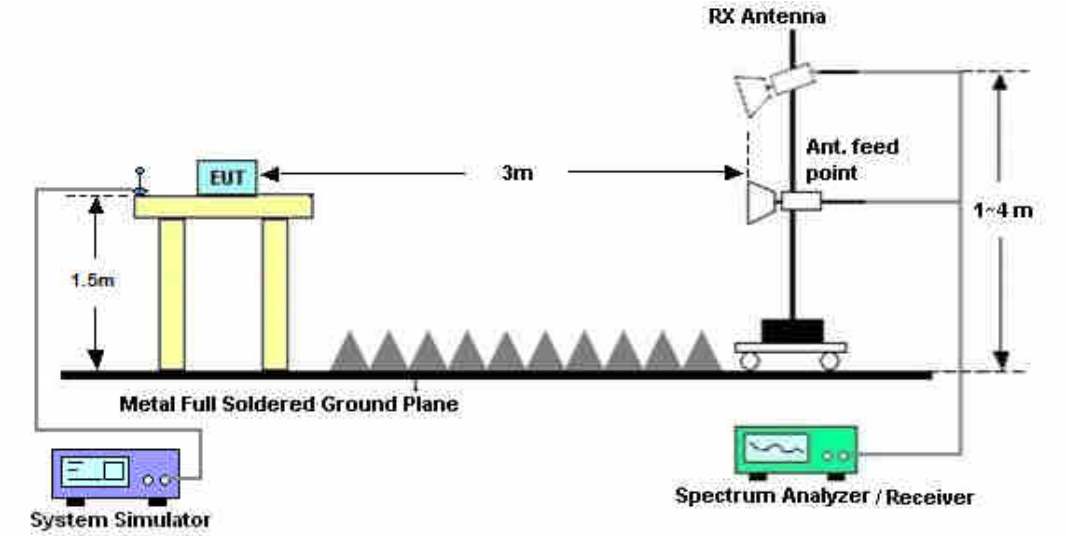
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010. 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 (P) dB.

For Band 41

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 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor =10 log (1/x), where x is the measured duty cycle
8. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
9. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
10. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    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.
14. For Band 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
    ERP (dBm) = EIRP - 2.15

5 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. 09, 2016	May 22, 2017~ May 27, 2017	Aug. 08, 2017	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 13, 2016	May 22, 2017~ May 27, 2017	Oct. 12, 2017	Conducted (TH01-KS)
Radio communication	Anritsu	MT8820C	6201300652	2G/3G/LTE Band	Aug. 08, 2016	May 22, 2017~ May 27, 2017	Aug. 07, 2017	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Jul. 07, 2016	May 20, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	Jul. 07, 2016	May 20, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	May 20, 2017	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Jul. 07, 2016	May 20, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
SHF-EHF Horn	com-pow er	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	May 20, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 11, 2016	May 20, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 06, 2017	May 20, 2017	Jan. 05, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 16, 2016	May 20, 2017	Jul. 15, 2017	Radiation (03CH03-SZ)
AC Pow er Source	Chroma	61601	616010001985	N/A	NCR	May 20, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 20, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 20, 2017	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.0dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8dB

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

<LTE CA>

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	0	0	1	99	1	23.20
			1	0	0	0	1	22.40
			100	0	0	0	100	22.52
			100	0	100	0	200	20.52
			1	0	1	99	2	16.58
			1	0	1	0	2	21.71
			1	99	1	0	2	23.20
			100	0	1	99	101	22.32
		16QAM	0	0	1	99	1	22.91
			1	0	0	0	1	22.90
			100	0	0	0	100	21.50
			100	0	100	0	200	19.50
			1	0	1	99	2	17.30
			1	0	1	0	2	22.20
			1	99	1	0	2	22.60
			100	0	1	99	101	22.25

40620	40818	QPSK	0	0	1	99	1	22.90
			1	0	0	0	1	23.30
			100	0	0	0	100	22.50
			100	0	100	0	200	20.25
			1	0	1	99	2	17.00
			1	0	1	0	2	22.00
			1	99	1	0	2	23.33
			100	0	1	99	101	22.00
		16QAM	0	0	1	99	1	23.20
			1	0	0	0	1	23.50
			100	0	0	0	100	21.60
			100	0	100	0	200	19.70
			1	0	1	99	2	17.70
			1	0	1	0	2	22.60
			1	99	1	0	2	23.34
			100	0	1	99	101	22.00
41490	41292	QPSK	0	0	1	99	1	22.70
			1	0	0	0	1	23.00
			100	0	0	0	100	22.40
			100	0	100	0	200	20.10
			1	0	1	99	2	16.80
			1	0	1	0	2	21.50
			1	99	1	0	2	23.40
			100	0	1	99	101	21.90
		16QAM	0	0	1	99	1	23.10
			1	0	0	0	1	23.70
			100	0	0	0	100	21.60
			100	0	100	0	200	19.10
			1	0	1	99	2	17.20
			1	0	1	0	2	22.00
			1	99	1	0	2	22.90
			100	0	1	99	101	22.00

CA_41C								
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39921	QPSK	1	99	1	0	2	23.30
		16QAM	1	99	1	0	2	23.30
40620	40791	QPSK	1	99	1	0	2	23.20
		16QAM	1	99	1	0	2	23.40
41490	41319	QPSK	1	99	1	0	2	23.00
		16QAM	1	99	1	0	2	23.40
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39725	39896	QPSK	1	74	1	0	2	23.50
		16QAM	1	74	1	0	2	22.60
40620	40791	QPSK	1	74	1	0	2	23.50
		16QAM	1	74	1	0	2	22.63
41515	41344	QPSK	1	74	1	0	2	23.20
		16QAM	1	74	1	0	2	22.40
Combination 20MHz+10MHz (100RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39894	QPSK	1	99	1	0	2	23.30
		16QAM	1	99	1	0	2	23.00
40620	40764	QPSK	1	99	1	0	2	23.20
		16QAM	1	99	1	0	2	23.20
41490	41346	QPSK	1	99	1	0	2	23.20
		16QAM	1	99	1	0	2	23.50

Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39700	39844	QPSK	1	49	1	0	2	23.10
		16QAM	1	49	1	0	2	22.70
40620	40764	QPSK	1	49	1	0	2	23.00
		16QAM	1	49	1	0	2	22.60
41540	41396	QPSK	1	49	1	0	2	22.60
		16QAM	1	49	1	0	2	22.40
Combination 20MHz+5MHz (100RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39750	39867	QPSK	1	99	1	0	2	22.40
		16QAM	1	99	1	0	2	22.60
40620	40737	QPSK	1	99	1	0	2	23.45
		16QAM	1	99	1	0	2	23.50
41490	41373	QPSK	1	99	1	0	2	23.05
		16QAM	1	99	1	0	2	23.50
Combination 5MHz+20MHz (25RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39675	39792	QPSK	1	24	1	0	2	23.30
		16QAM	1	24	1	0	2	22.90
40620	40737	QPSK	1	24	1	0	2	23.25
		16QAM	1	24	1	0	2	22.80
41565	41448	QPSK	1	24	1	0	2	23.10
		16QAM	1	24	1	0	2	22.00

Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39725	39875	QPSK	1	74	1	0	2	22.90
		16QAM	1	74	1	0	2	22.80
40620	40770	QPSK	1	74	1	0	2	23.80
		16QAM	1	74	1	0	2	23.80
41365	41515	QPSK	1	74	1	0	2	23.70
		16QAM	1	74	1	0	2	23.70

EIRP

LTE Band 41 CA (G_T - L_C = 0.21 dB) QPSK									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41365	39675	40620	41565	39750	40620	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41515	39792	40737	41448	39867	40737	41373
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.90	23.80	23.70	23.30	23.25	23.10	22.40	23.45	23.05
Conducted Power (Watts)	0.1950	0.2399	0.2344	0.2138	0.2113	0.2042	0.1738	0.2213	0.2018
EIRP(dBm)	23.11	24.01	23.91	23.51	23.46	23.31	22.61	23.66	23.26
EIRP(Watts)	0.2046	0.2518	0.2460	0.2244	0.2218	0.2143	0.1824	0.2323	0.2118

LTE Band 41 CA (G_T - L_C = 0.21 dB) QPSK									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41540	39750	40620	41490	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41396	39894	40764	41346	39896	40791	41344
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	23.10	23.00	22.6	23.30	23.20	23.20	23.50	23.50	23.20
Conducted Power (Watts)	0.2042	0.1995	0.1820	0.2138	0.2089	0.2089	0.2239	0.2239	0.2089
EIRP(dBm)	23.31	23.21	22.81	23.51	23.41	23.41	23.71	23.71	23.41
EIRP(Watts)	0.2143	0.2094	0.1910	0.2244	0.2193	0.2193	0.2350	0.2350	0.2193

LTE Band 41 CA (G_T - L_C = 0.21 dB) QPSK						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41490	39750	40620	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41319	39948	40818	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.30	23.20	23.00	23.20	23.33	23.40
Conducted Power (Watts)	0.2138	0.2089	0.1995	0.2089	0.2153	0.2188
EIRP(dBm)	23.51	23.41	23.21	23.41	23.54	23.61
EIRP(Watts)	0.2244	0.2193	0.2094	0.2193	0.2259	0.2296

LTE Band 41 CA (G_T - L_C = 0.21 dB) 16QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41365	39675	40620	41565	39750	40620	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40770	41515	39792	40737	41448	39867	40737	41373
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.80	23.80	23.70	22.90	22.8	22.00	22.60	23.50	23.50
Conducted Power (Watts)	0.1905	0.2399	0.2344	0.1950	0.1905	0.1585	0.1820	0.2239	0.2239
EIRP(dBm)	23.01	24.01	23.91	23.11	23.01	22.21	22.81	23.71	23.71
EIRP(Watts)	0.2000	0.2518	0.2460	0.2046	0.2000	0.1663	0.1910	0.2350	0.2350

LTE Band 41 CA (G_T - L_C = 0.21 dB) 16QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41540	39750	40620	41490	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39844	40764	41396	39894	40764	41346	39896	40791	41344
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.70	22.60	22.40	23.00	23.20	23.50	22.60	22.63	22.40
Conducted Power (Watts)	0.1862	0.1820	0.1738	0.1995	0.2089	0.2239	0.1820	0.1832	0.1738
EIRP(dBm)	22.91	22.81	22.61	23.21	23.41	23.71	22.81	22.84	22.61
EIRP(Watts)	0.1954	0.1910	0.1824	0.2094	0.2193	0.2350	0.1910	0.1923	0.1824

LTE Band 41 CA (G_T - L_C = 0.21 dB) 16QAM						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41490	39750	40620	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41319	39948	40818	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.30	23.40	23.40	22.91	23.50	23.70
Conducted Power (Watts)	0.2138	0.2188	0.2188	0.1954	0.2239	0.2344
EIRP(dBm)	23.51	23.61	23.61	23.12	23.71	23.91
EIRP(Watts)	0.2244	0.2296	0.2296	0.2051	0.2350	0.2460

26dB Bandwidth

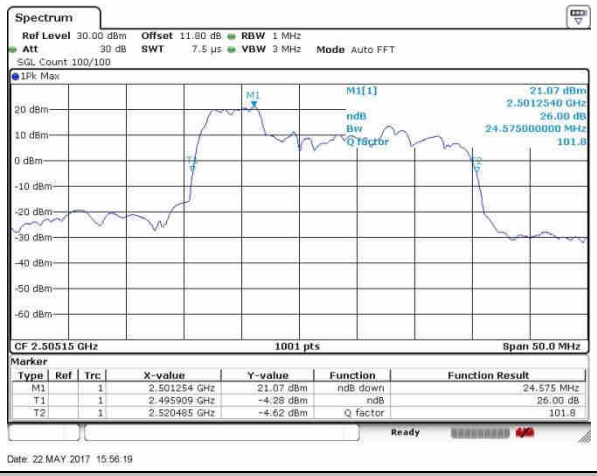
Mode	LTE Band 41 : 26dB BW(MHz)			
	QPSK			
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	24.58	29.67	30.51	34.55
Middle CH	24.78	29.73	30.33	34.69
Highest CH	24.83	29.85	30.57	34.76
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	25.13	29.85	34.69	39.56
Middle CH	25.08	30.09	34.83	39.56
Highest CH	25.08	30.03	34.83	39.64

Mode	LTE Band 41 : 26dB BW (MHz)			
	16QAM			
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	24.73	29.79	30.57	34.76
Middle CH	24.83	29.73	30.39	34.55
Highest CH	24.58	29.55	30.51	34.55
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	24.98	29.79	34.69	39.56
Middle CH	25.03	29.97	34.90	39.64
Highest CH	25.08	29.91	34.83	39.56

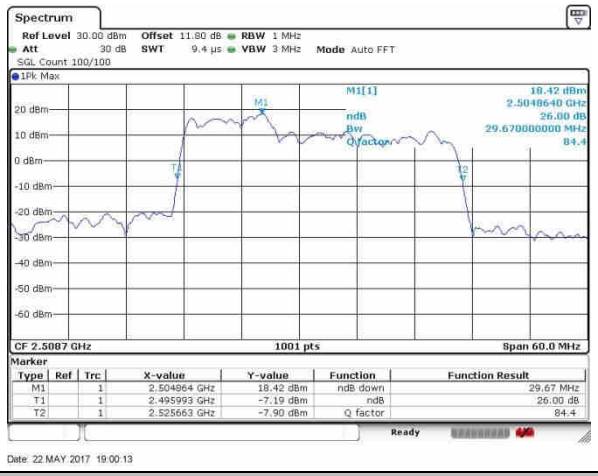
LTE Band 41

QPSK

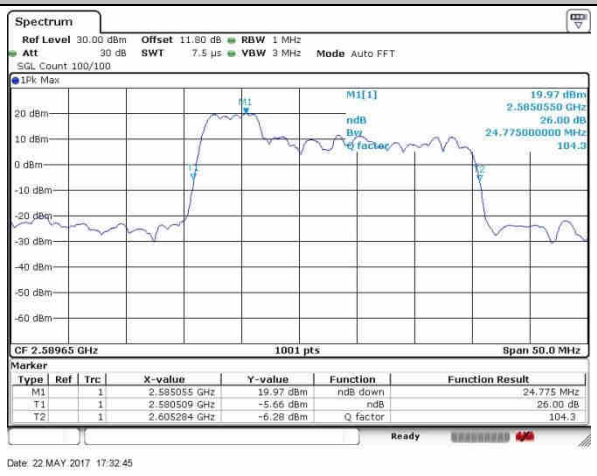
Lowest Channel / 5MHz+20MHz



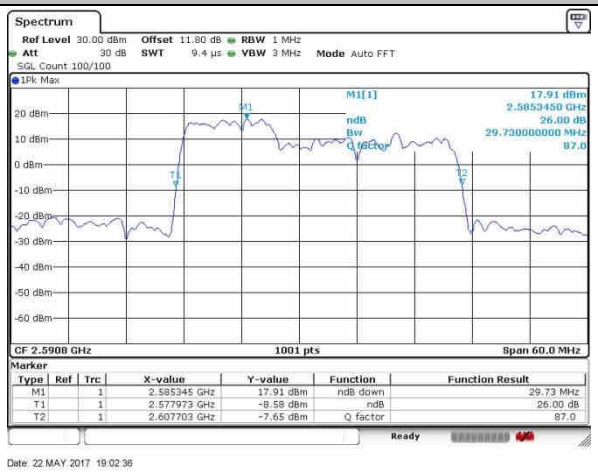
Lowest Channel / 10MHz+20MHz



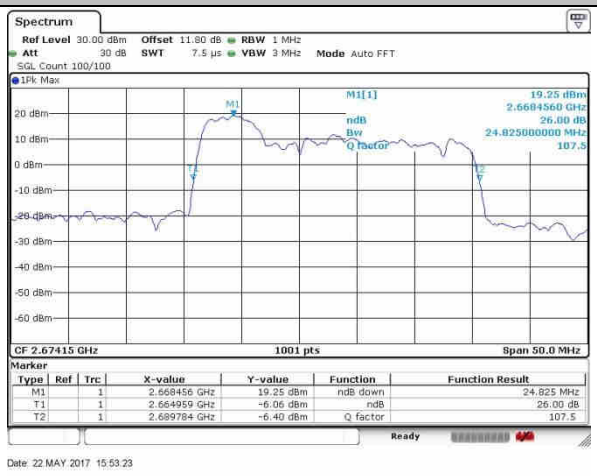
Middle Channel / 5MHz+20MHz



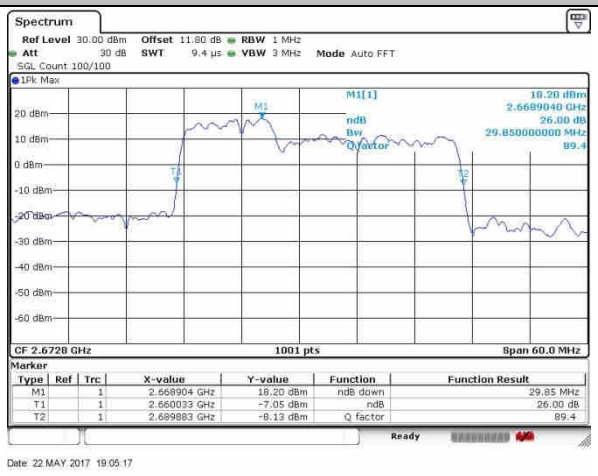
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



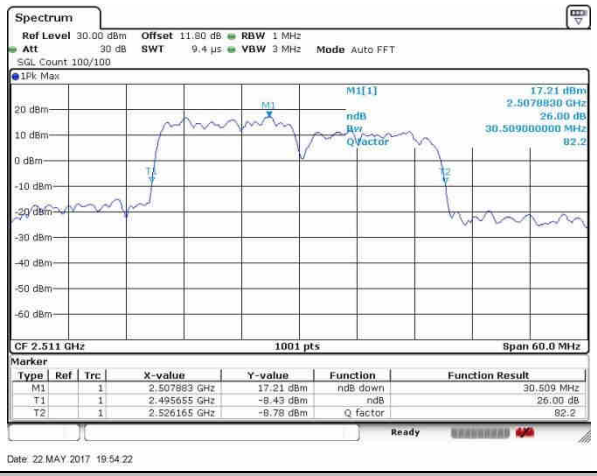
Highest Channel / 10MHz+20MHz



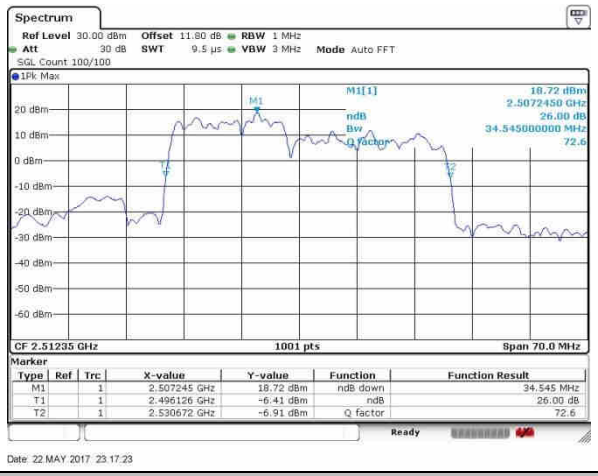
LTE Band 41

QPSK

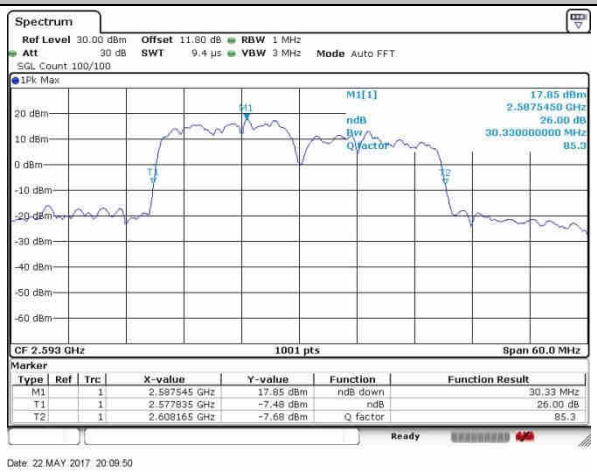
Lowest Channel / 15MHz+15MHz



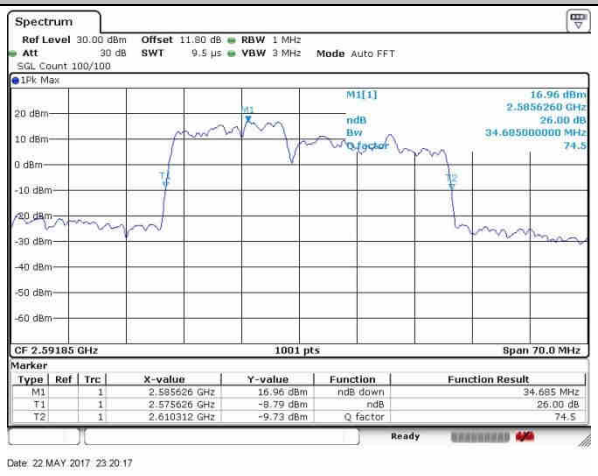
Lowest Channel / 15MHz+20MHz



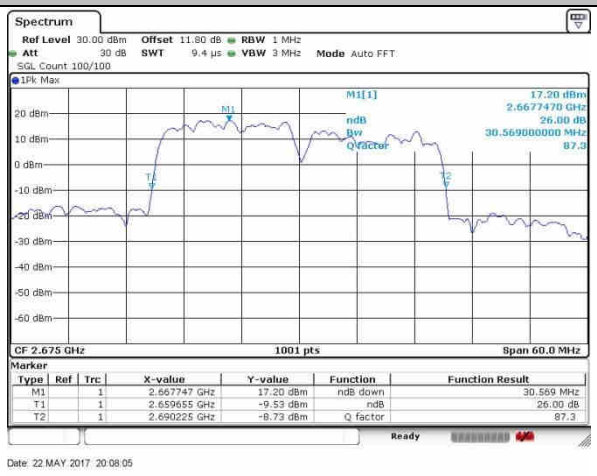
Middle Channel / 15MHz+15MHz



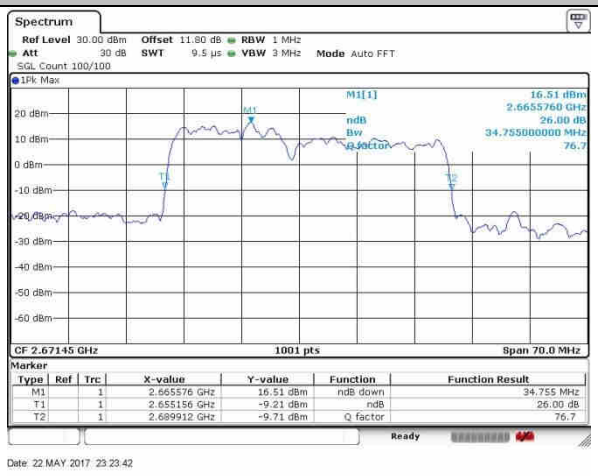
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



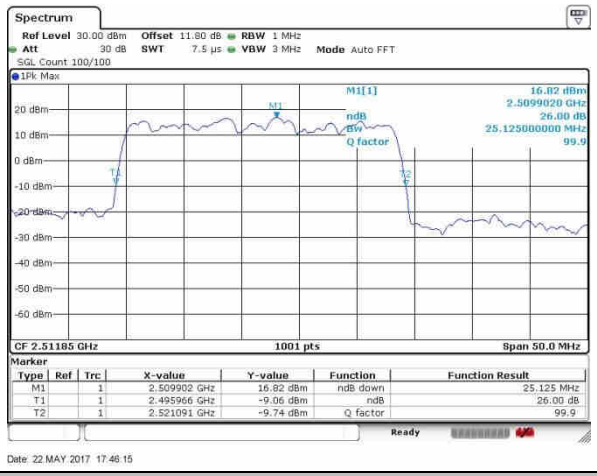
Highest Channel / 15MHz+20MHz



LTE Band 41

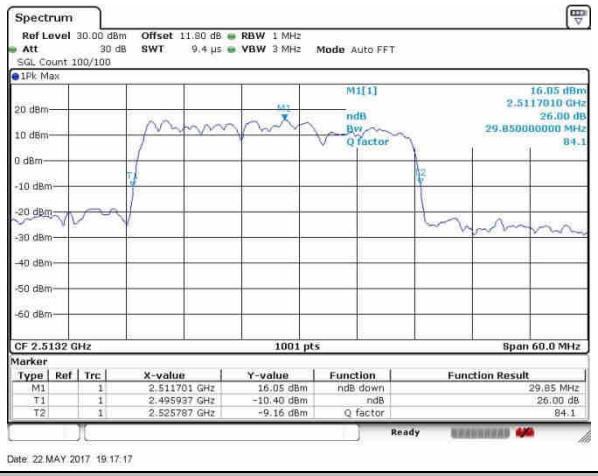
QPSK

Lowest Channel / 20MHz+5MHz



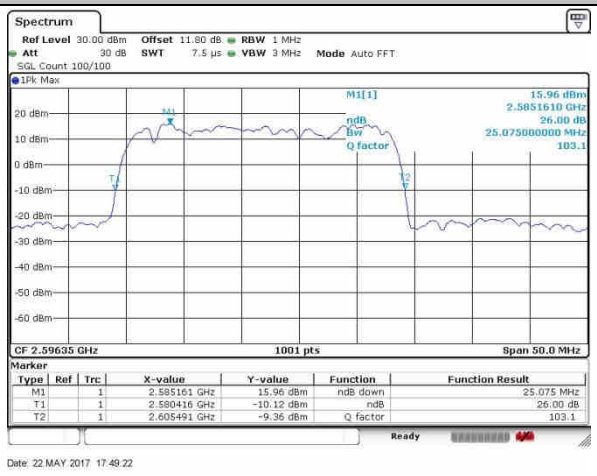
Date: 22.MAY.2017 17:46:15

Lowest Channel / 20MHz+10MHz



Date: 22.MAY.2017 19:17:17

Middle Channel / 20MHz+5MHz



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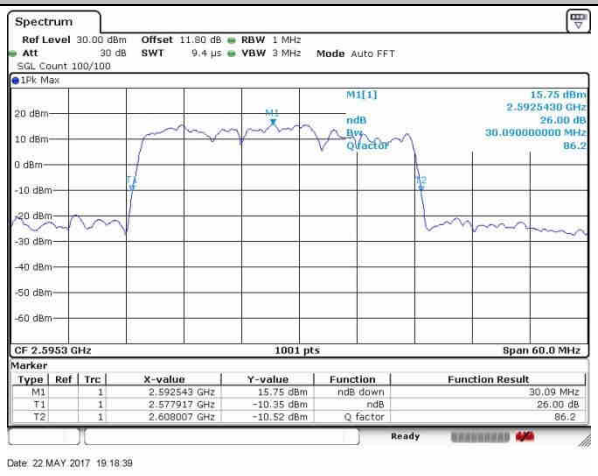
Middle Channel / 20MHz+10MHz



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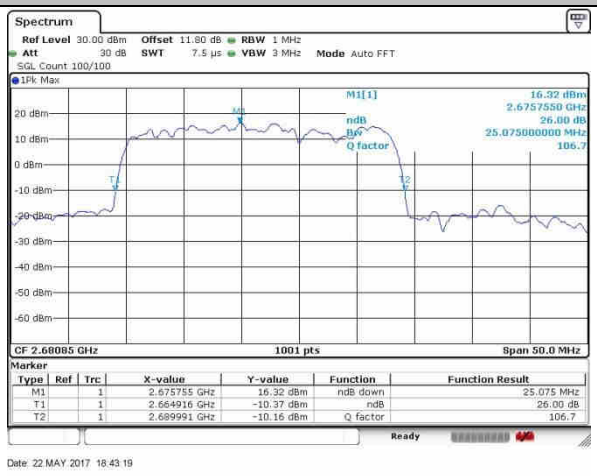
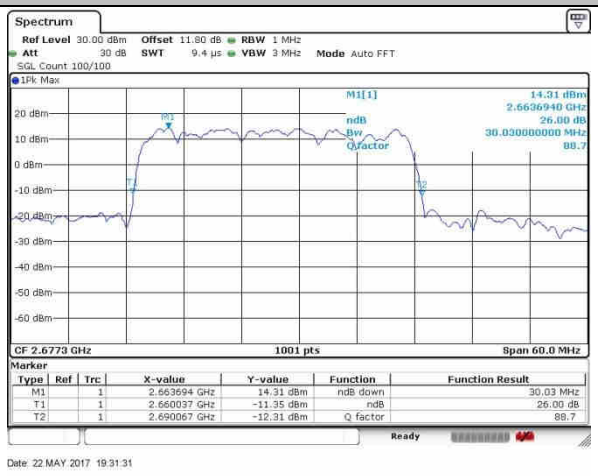
Highest Channel / 20MHz+5MHz



Date: 22.MAY.2017 18:43:19

Highest Channel / 20MHz+10MHz

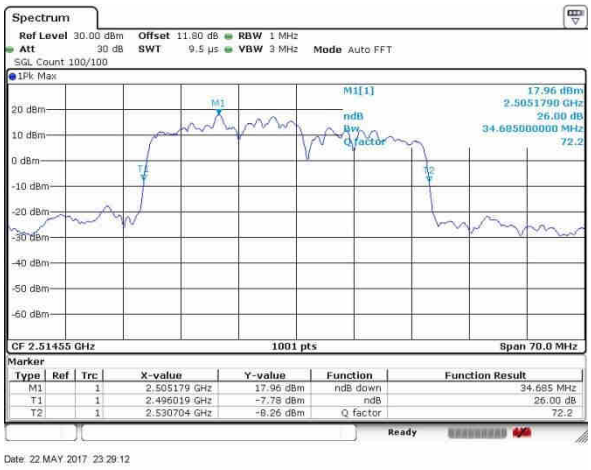


Date: 22.MAY.2017 19:31:31

LTE Band 41

QPSK

Lowest Channel / 20MHz+15MHz



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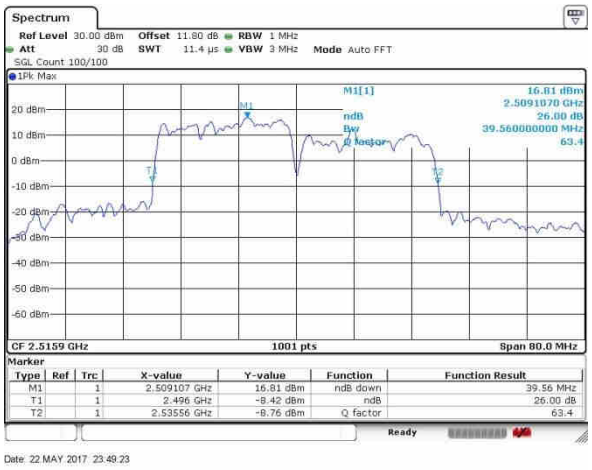
Lowest Channel / 20MHz+20MHz



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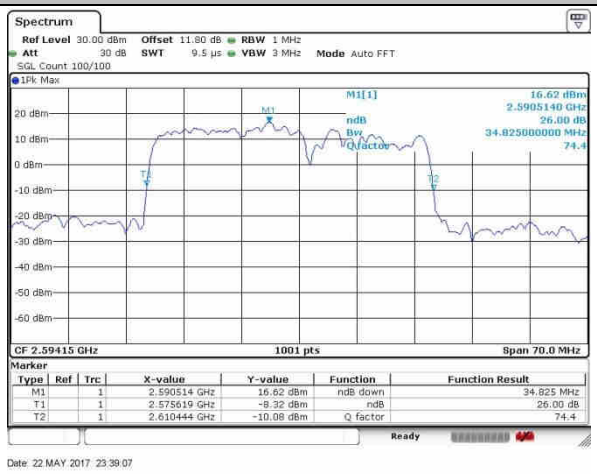
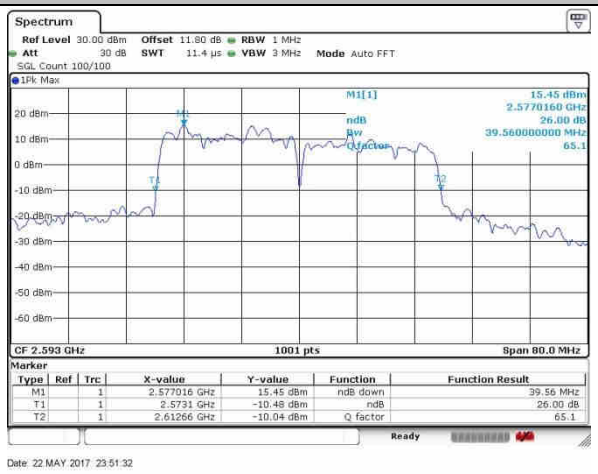
Middle Channel / 20MHz+15MHz



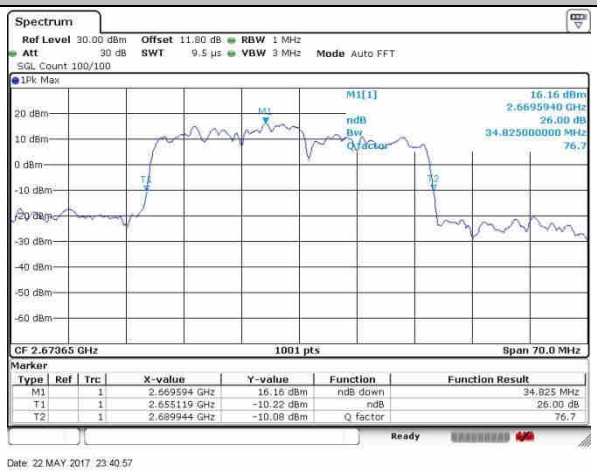
Date: 22.MAY.2017 23:39:07

Middle Channel / 20MHz+20MHz



Date: 22.MAY.2017 23:51:32

Highest Channel / 20MHz+15MHz



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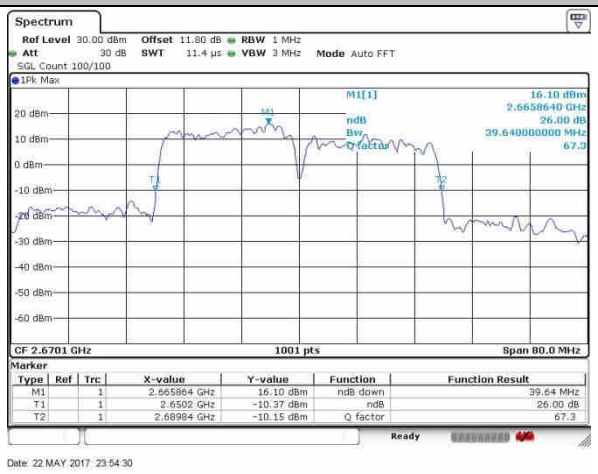
Highest Channel / 20MHz+20MHz

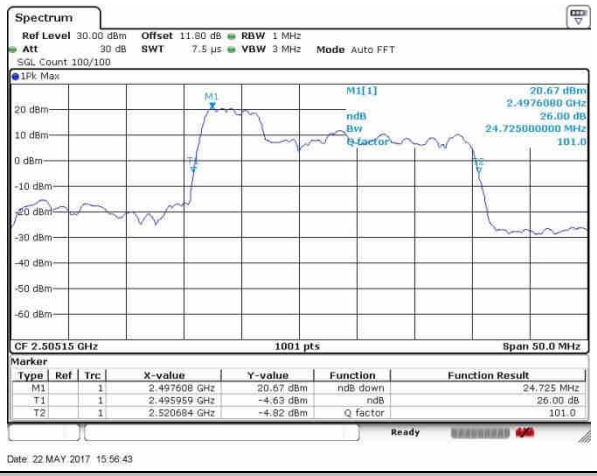


Date: 22.MAY.2017 23:54:30

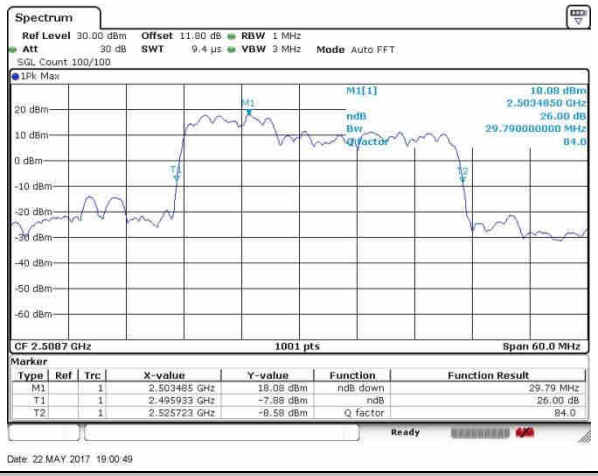
LTE Band 41

16QAM

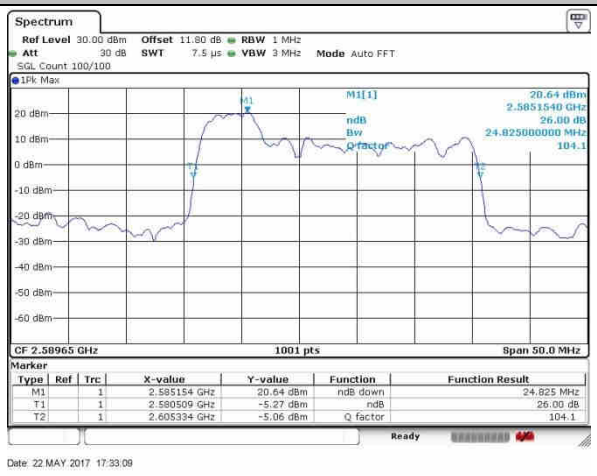
Lowest Channel / 5MHz+20MHz



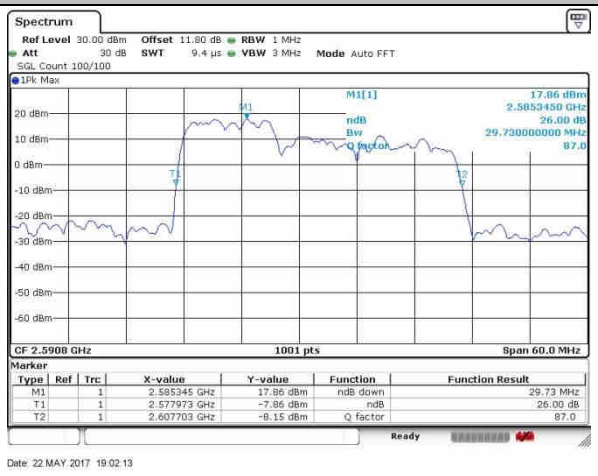
Lowest Channel / 10MHz+20MHz



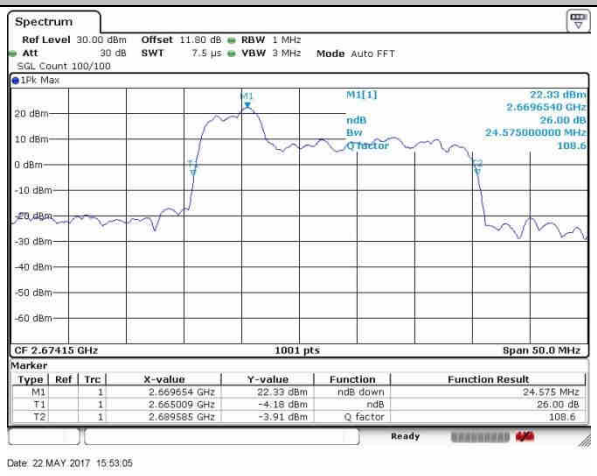
Middle Channel / 5MHz+20MHz



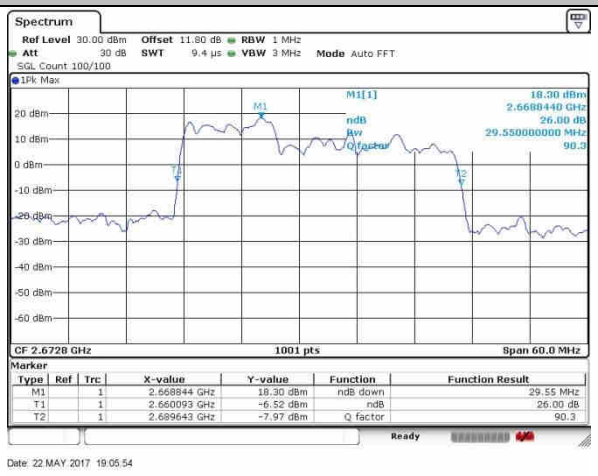
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



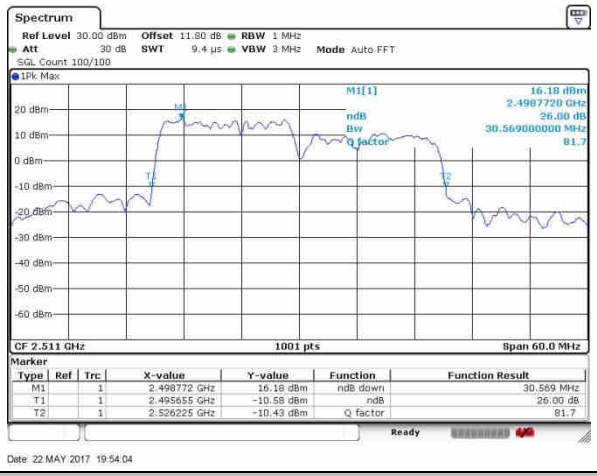
Highest Channel / 10MHz+20MHz



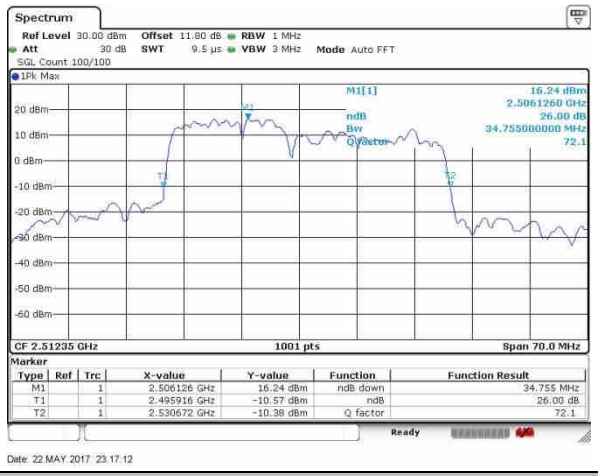
LTE Band 41

16QAM

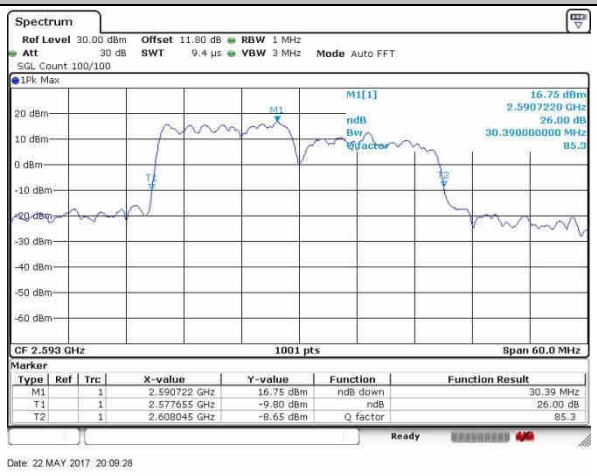
Lowest Channel / 15MHz+15MHz



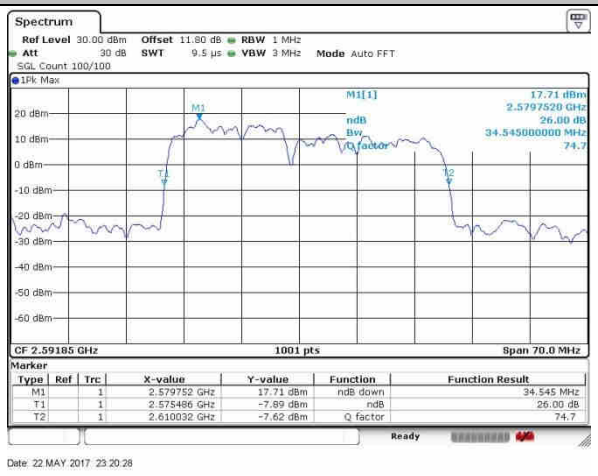
Lowest Channel / 15MHz+20MHz



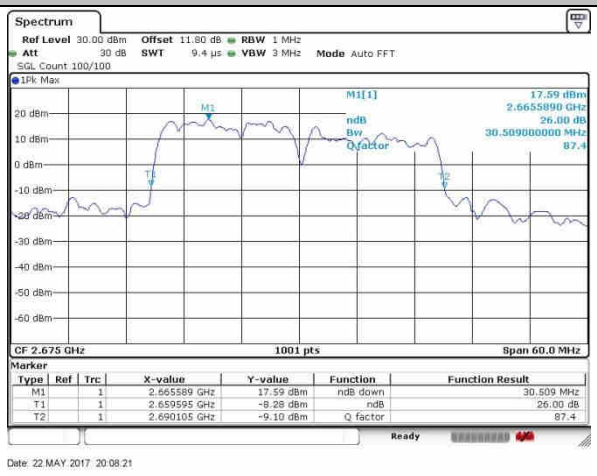
Middle Channel / 15MHz+15MHz



Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz

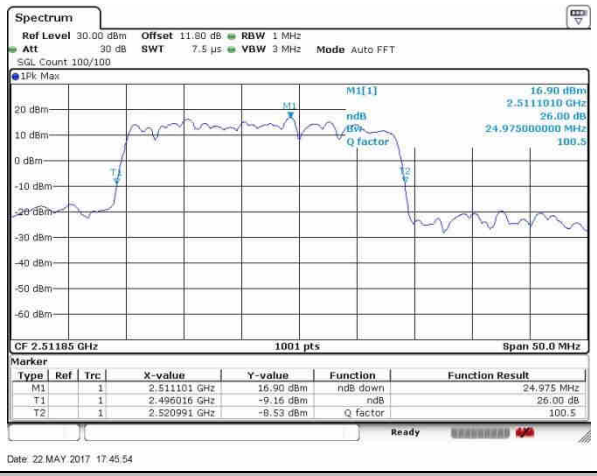


Highest Channel / 15MHz+20MHz

LTE Band 41

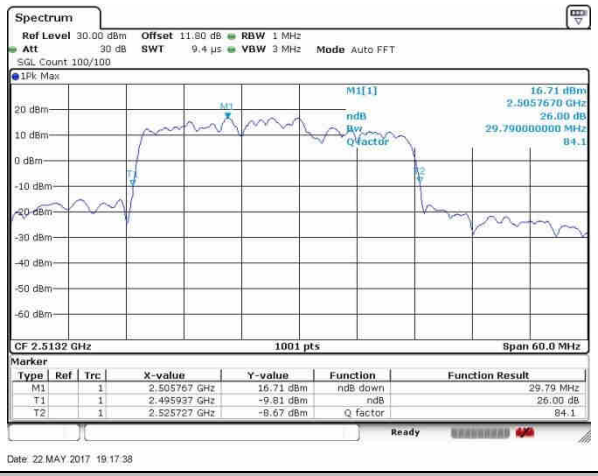
16QAM

Lowest Channel / 20MHz+5MHz



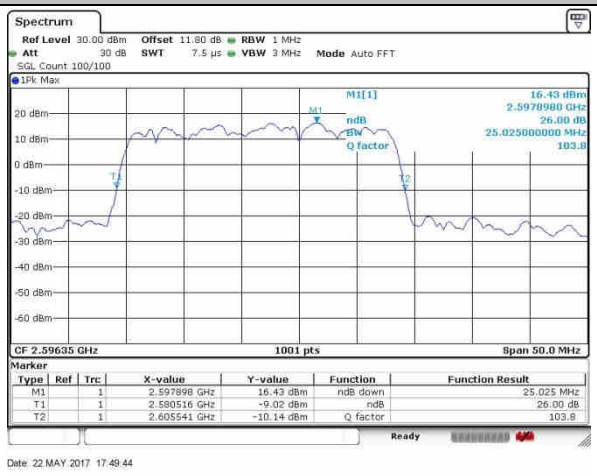
Date: 22.MAY.2017 17:45:54

Lowest Channel / 20MHz+10MHz



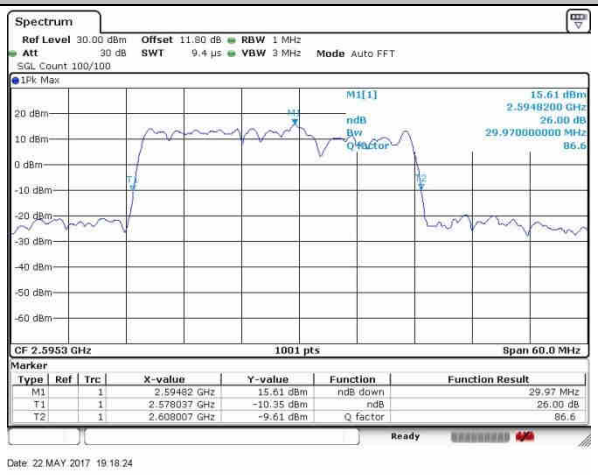
Date: 22.MAY.2017 19:17:38

Middle Channel / 20MHz+5MHz



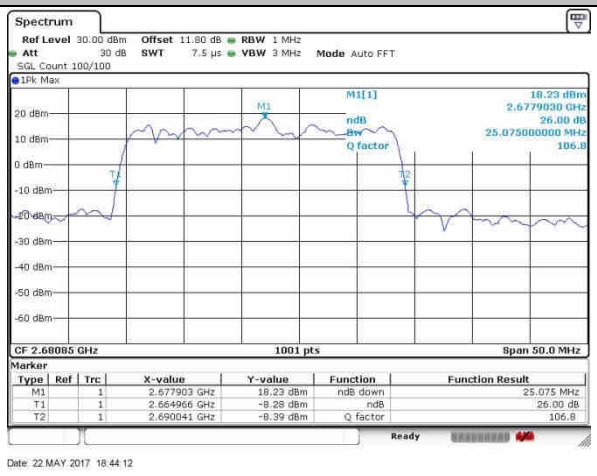
Date: 22.MAY.2017 17:49:44

Middle Channel / 20MHz+10MHz



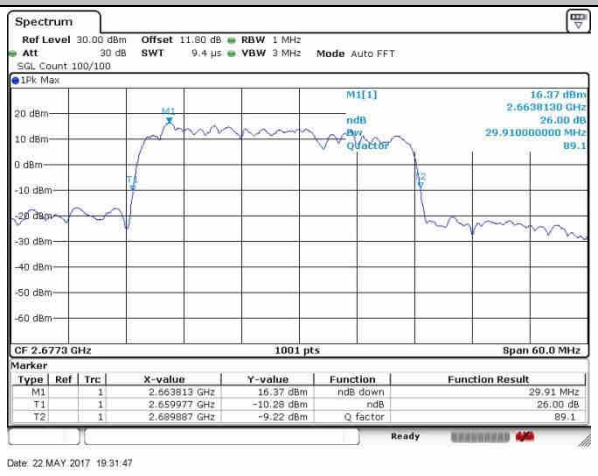
Date: 22.MAY.2017 19:18:24

Highest Channel / 20MHz+5MHz



Date: 22.MAY.2017 18:44:12

Highest Channel / 20MHz+10MHz

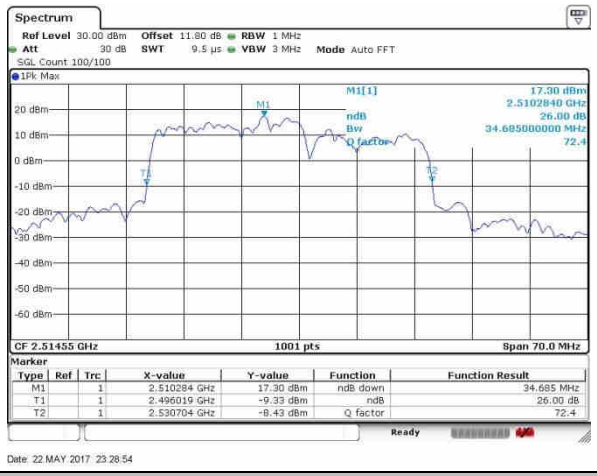


Date: 22.MAY.2017 19:31:47

LTE Band 41

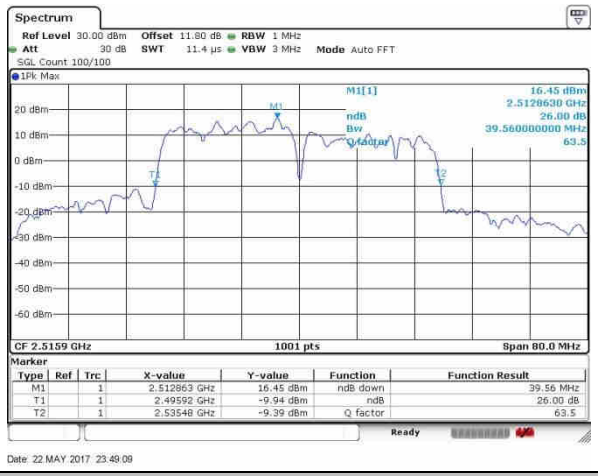
16QAM

Lowest Channel / 20MHz+15MHz



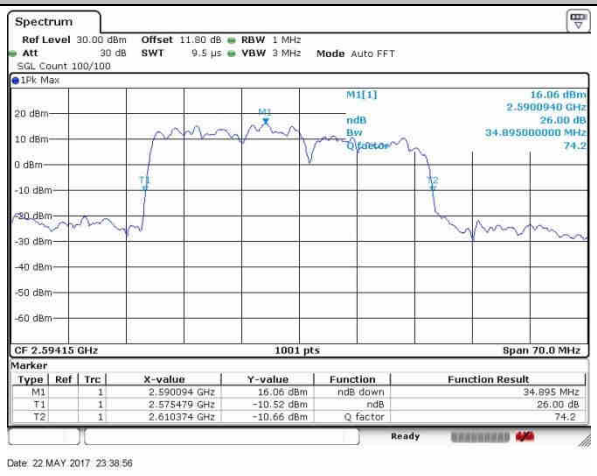
Date: 22.MAY.2017 23:28:54

Lowest Channel / 20MHz+20MHz



Date: 22.MAY.2017 23:49:09

Middle Channel / 20MHz+15MHz



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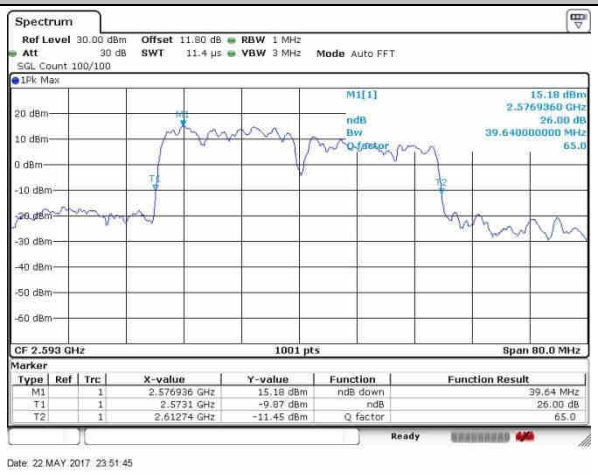
Middle Channel / 20MHz+20MHz



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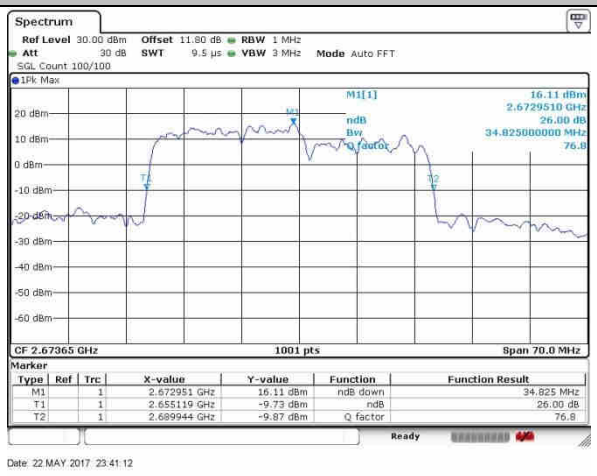
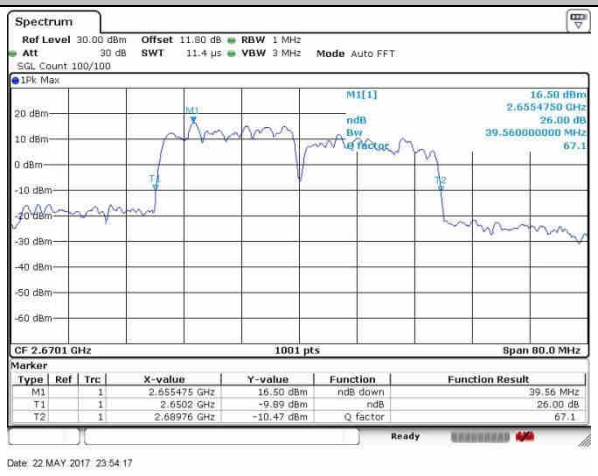
Highest Channel / 20MHz+15MHz



Date: 22.MAY.2017 23:41:12

Highest Channel / 20MHz+20MHz

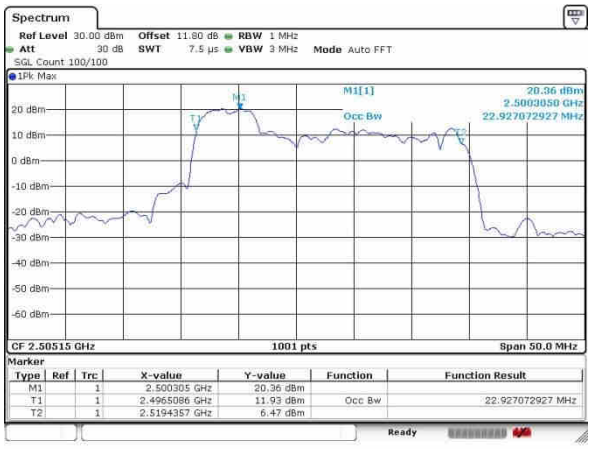
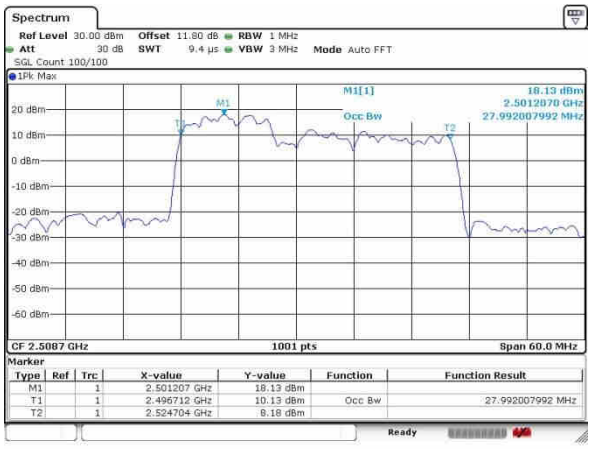
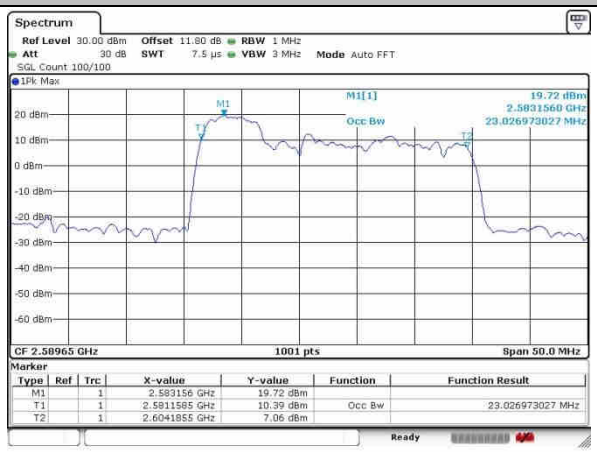
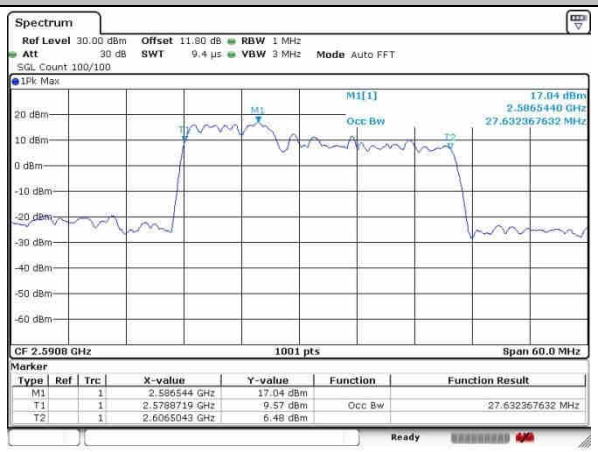
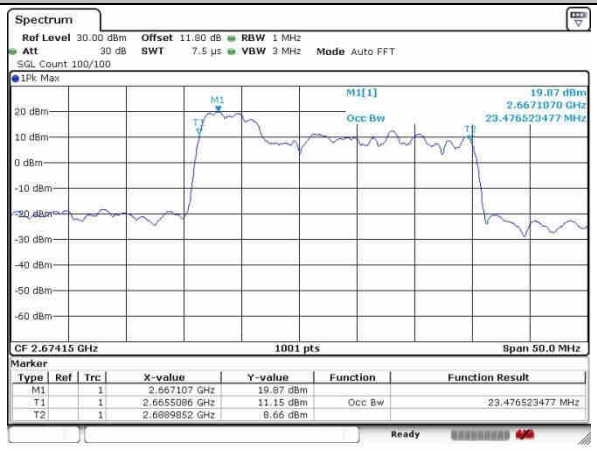
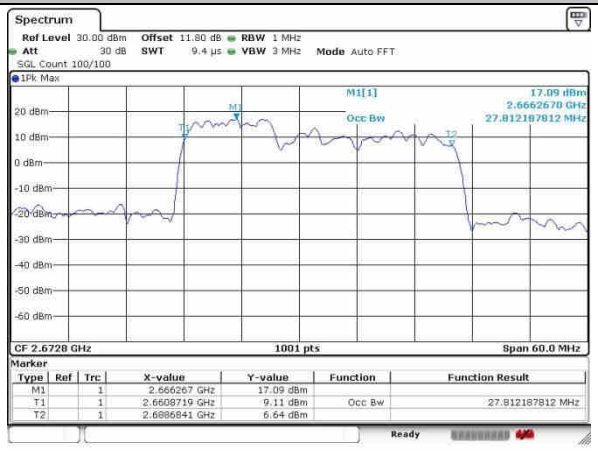


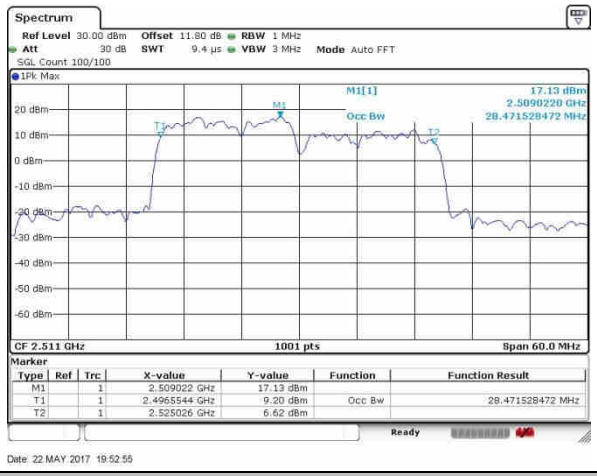
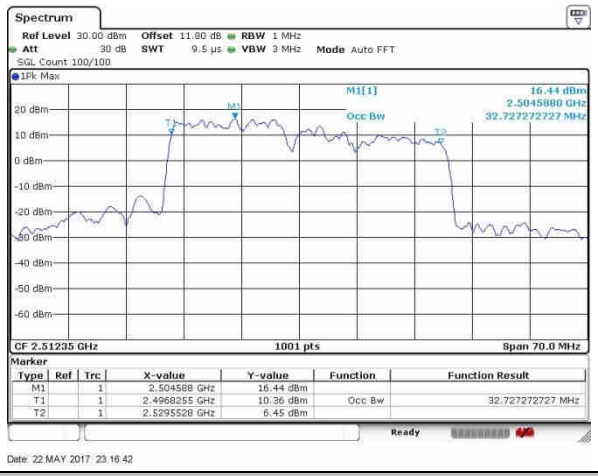
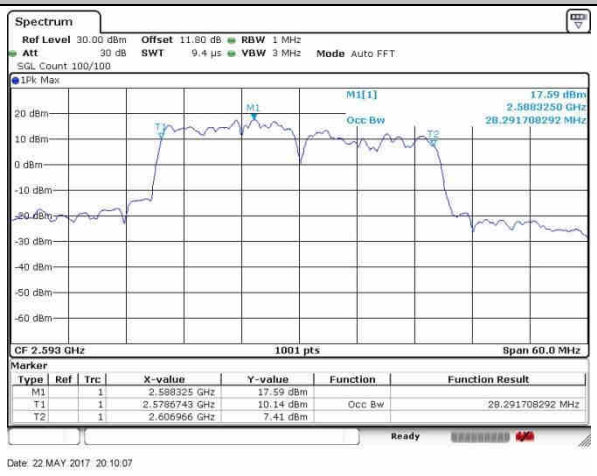
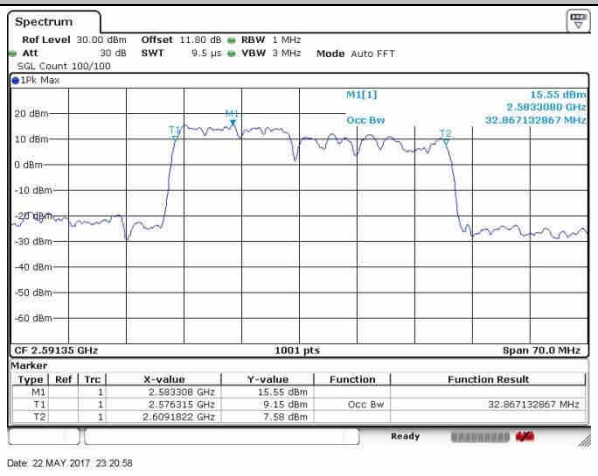
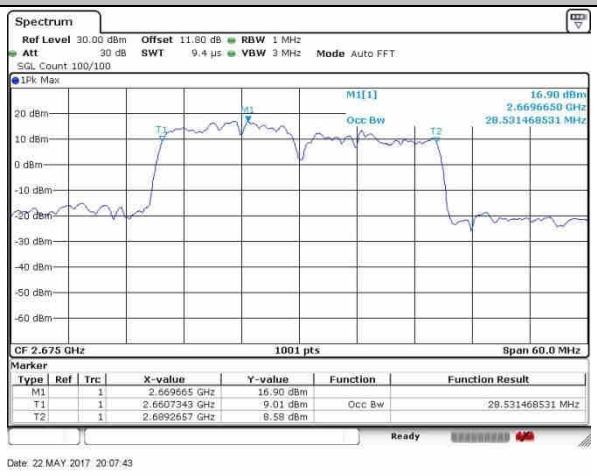
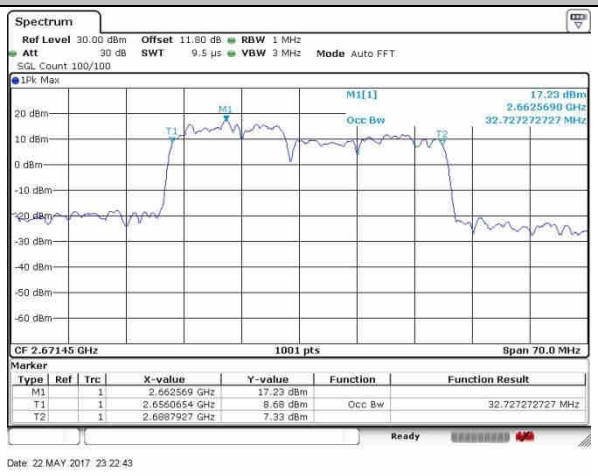
Date: 22.MAY.2017 23:54:17

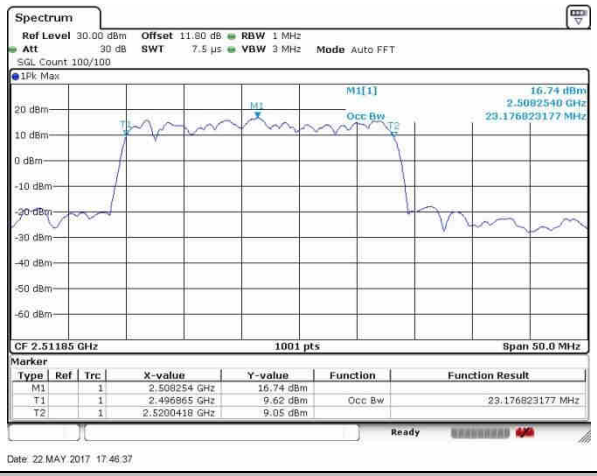
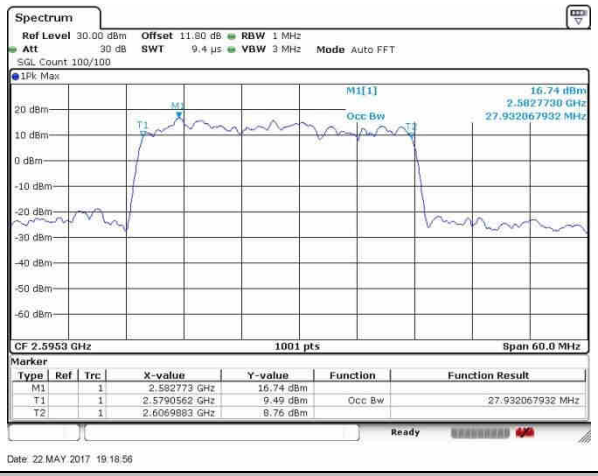
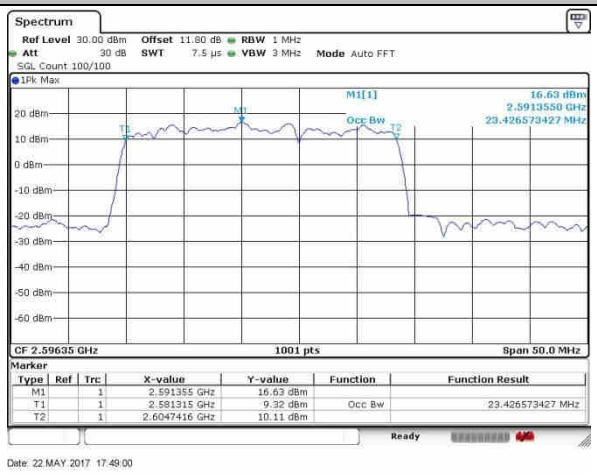
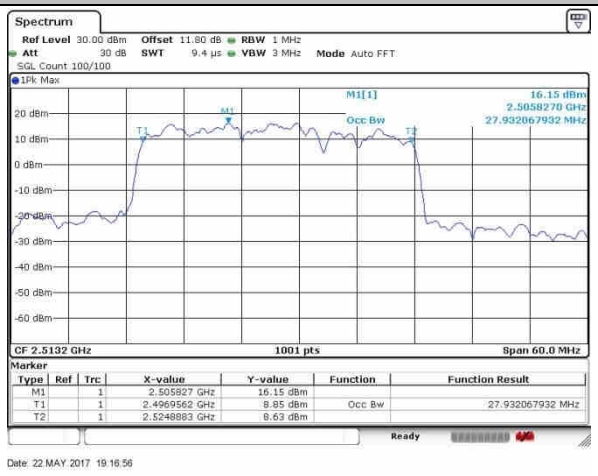
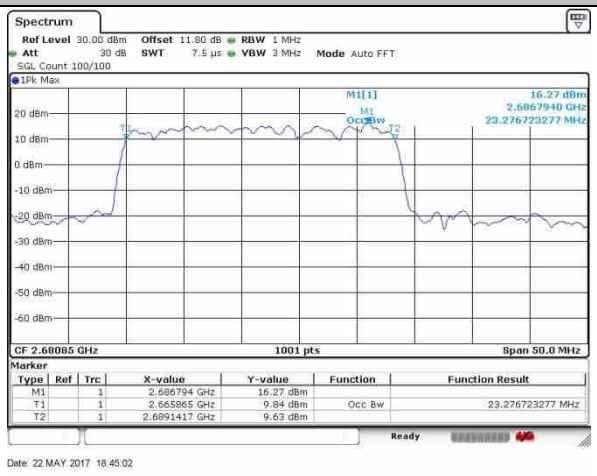
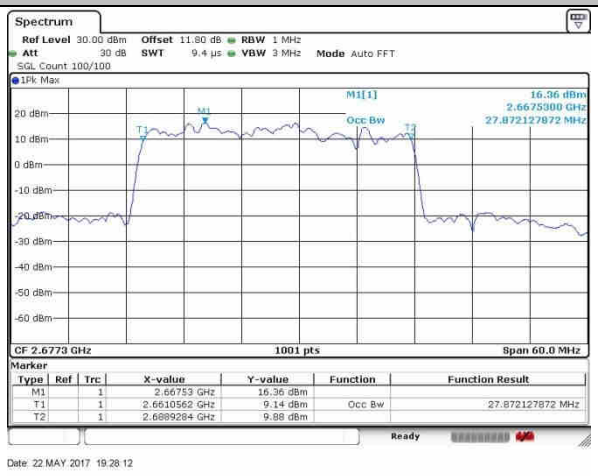
Occupied Bandwidth

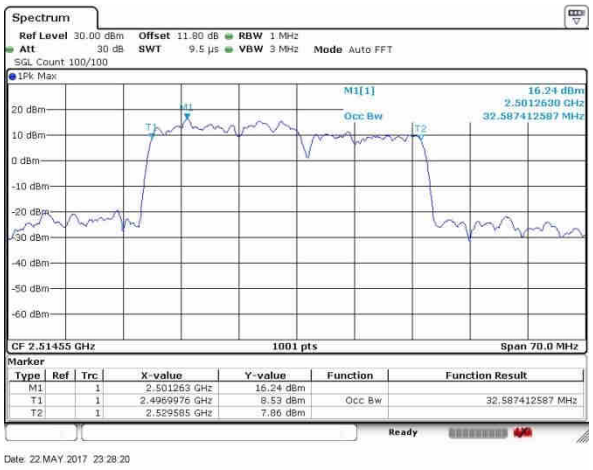
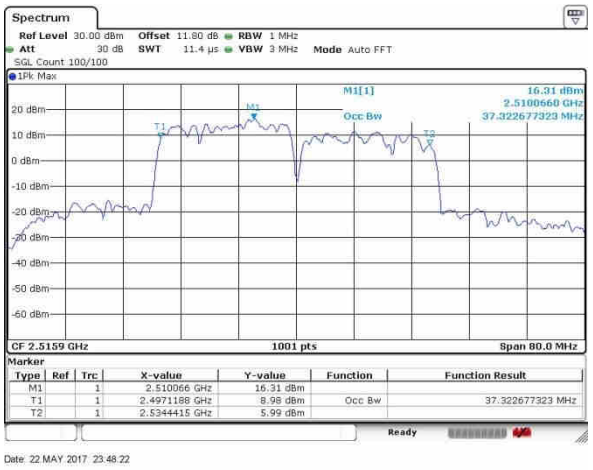
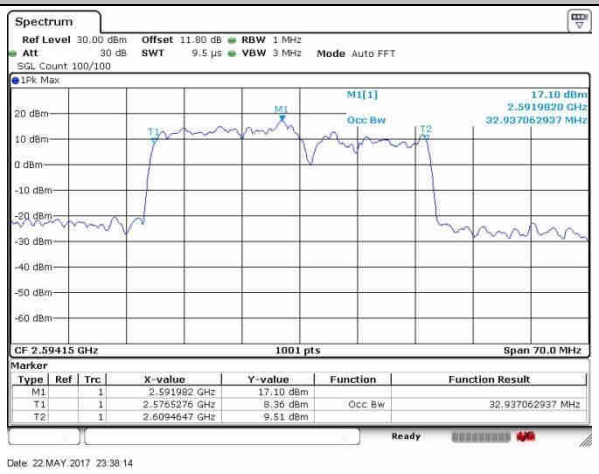
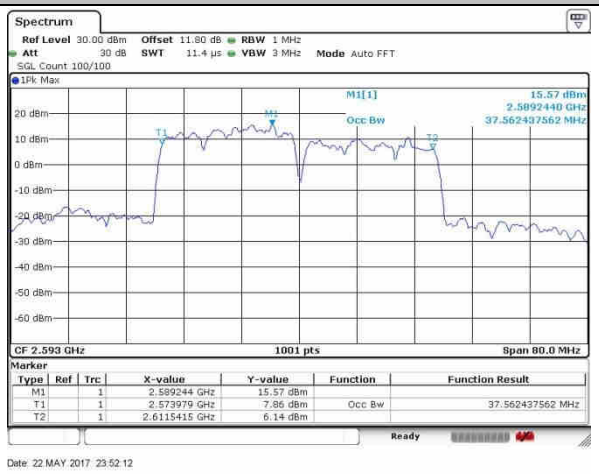
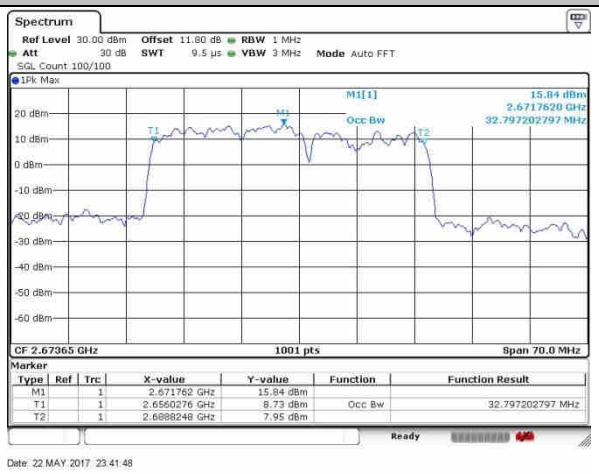
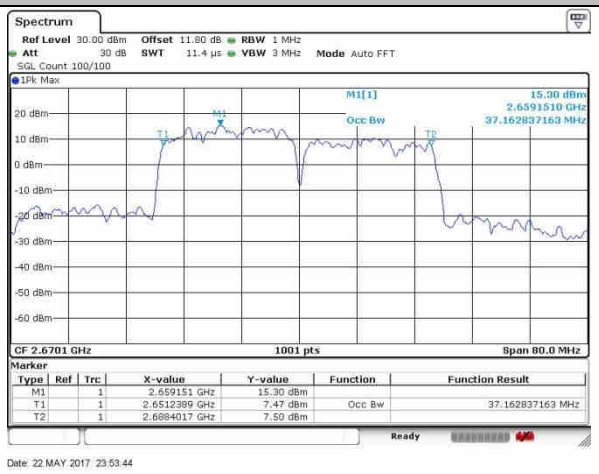
Mode	LTE Band 41 : 99%OBW(MHz)			
	QPSK			
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	22.93	27.99	28.47	32.73
Middle CH	23.03	27.63	28.29	32.87
Highest CH	23.48	27.81	28.53	32.73
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	23.18	27.93	32.59	37.32
Middle CH	23.43	27.93	32.94	37.56
Highest CH	23.28	27.87	32.80	37.16

Mode	LTE Band 41 : 99%OBW(MHz)			
	16QAM			
BW	5MHz+20MHz	10MHz+20MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	23.18	27.75	28.59	32.45
Middle CH	23.03	27.81	28.35	32.24
Highest CH	22.98	27.93	28.47	32.38
BW	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	23.13	27.93	32.59	37.24
Middle CH	23.08	27.81	32.52	36.84
Highest CH	22.73	27.69	32.52	37.24

LTE Band 41	
QPSK	
Lowest Channel / 5MHz+20MHz	Lowest Channel / 10MHz+20MHz
	
Middle Channel / 5MHz+20MHz	Middle Channel / 10MHz+20MHz
	
Highest Channel / 5MHz+20MHz	Highest Channel / 10MHz+20MHz
	

LTE Band 41	
QPSK	
Lowest Channel / 15MHz+15MHz	Lowest Channel / 15MHz+20MHz
	
Middle Channel / 15MHz+15MHz	Middle Channel / 15MHz+20MHz
	
Highest Channel / 15MHz+15MHz	Highest Channel / 15MHz+20MHz
	

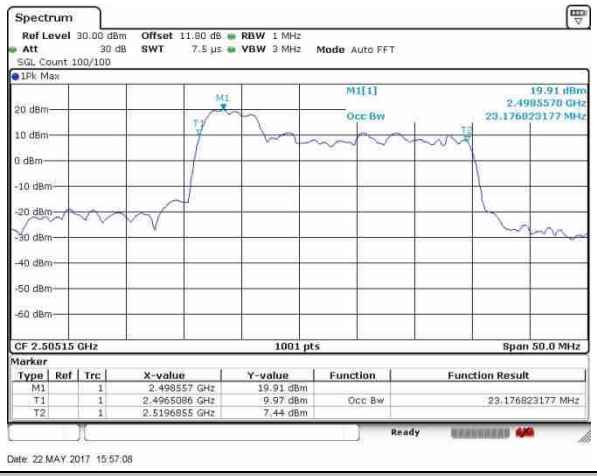
LTE Band 41	
QPSK	
Lowest Channel / 20MHz+5MHz	Lowest Channel / 20MHz+10MHz
	
Middle Channel / 20MHz+5MHz	Middle Channel / 20MHz+10MHz
	
Highest Channel / 20MHz+5MHz	Highest Channel / 20MHz+10MHz
	

LTE Band 41	
QPSK	
Lowest Channel / 20MHz+15MHz	Lowest Channel / 20MHz+20MHz
	
Middle Channel / 20MHz+15MHz	Middle Channel / 20MHz+20MHz
	
Highest Channel / 20MHz+15MHz	Highest Channel / 20MHz+20MHz
	

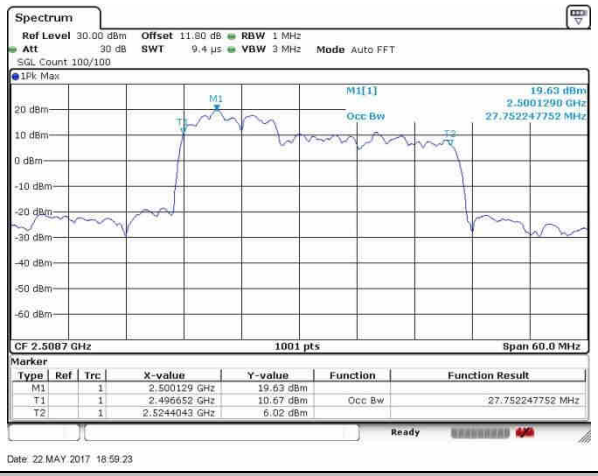
LTE Band 41

16QAM

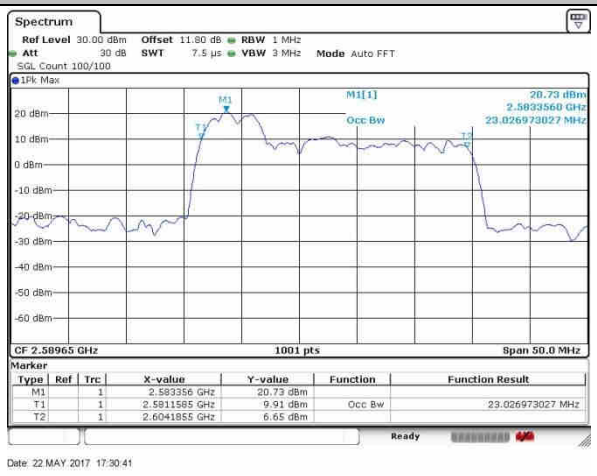
Lowest Channel / 5MHz+20MHz



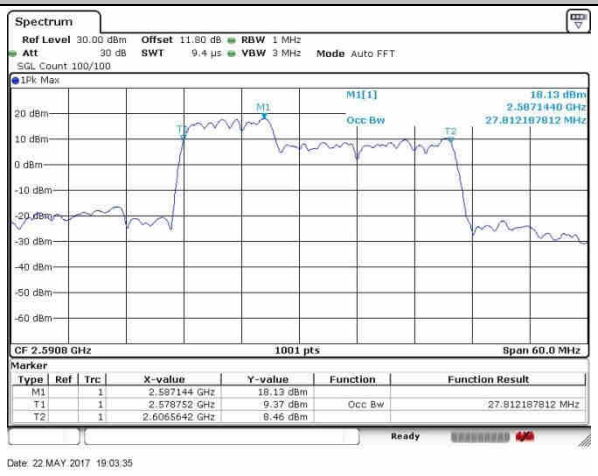
Lowest Channel / 10MHz+20MHz



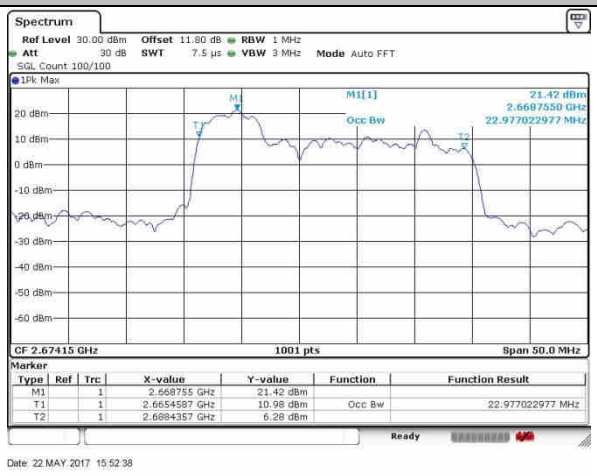
Middle Channel / 5MHz+20MHz



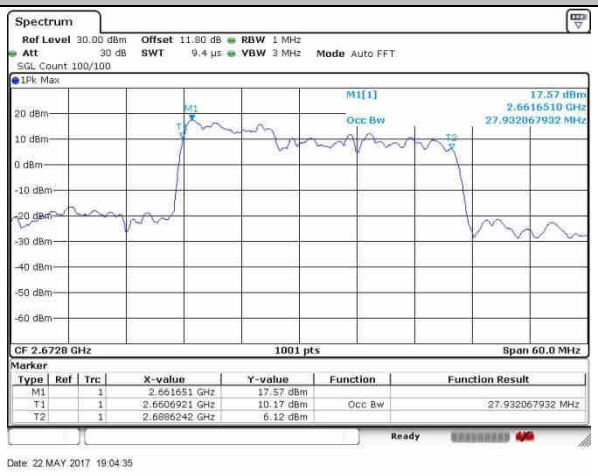
Middle Channel / 10MHz+20MHz



Highest Channel / 5MHz+20MHz



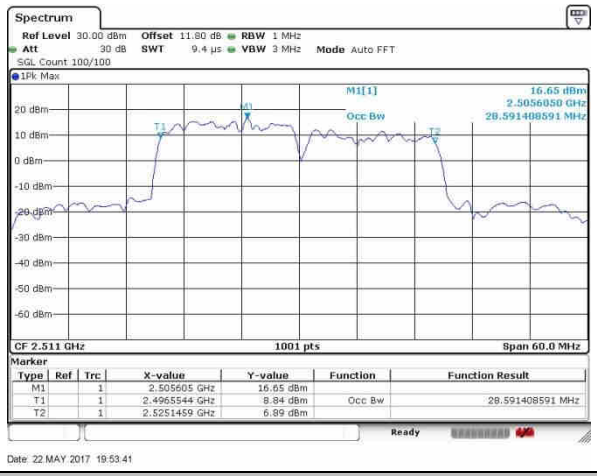
Highest Channel / 10MHz+20MHz



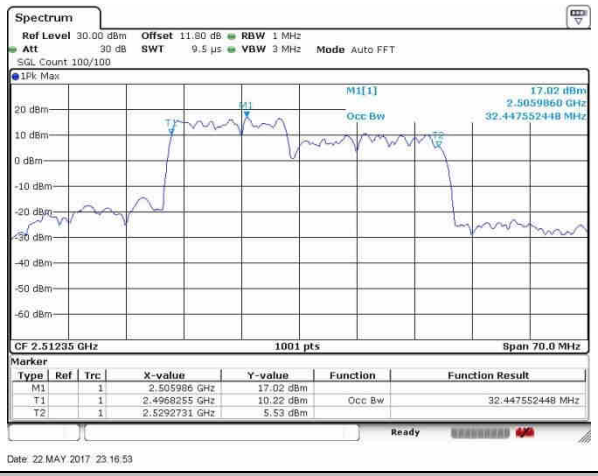
LTE Band 41

16QAM

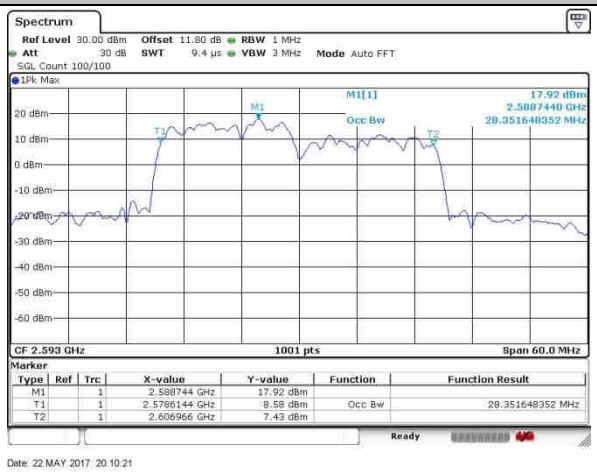
Lowest Channel / 15MHz+15MHz



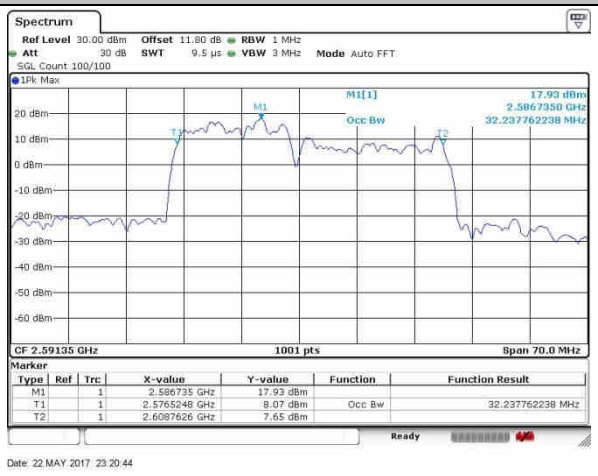
Lowest Channel / 15MHz+20MHz



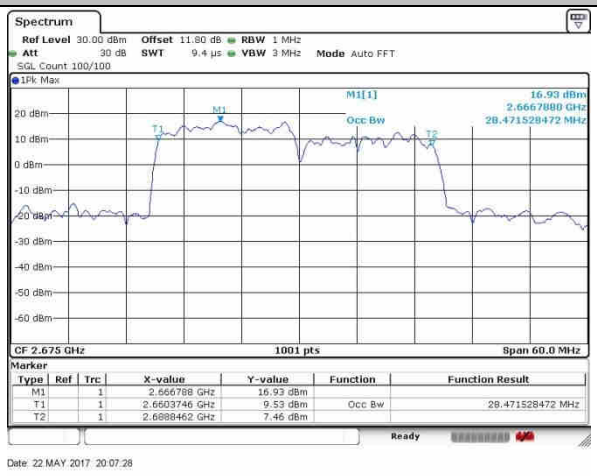
Middle Channel / 15MHz+15MHz



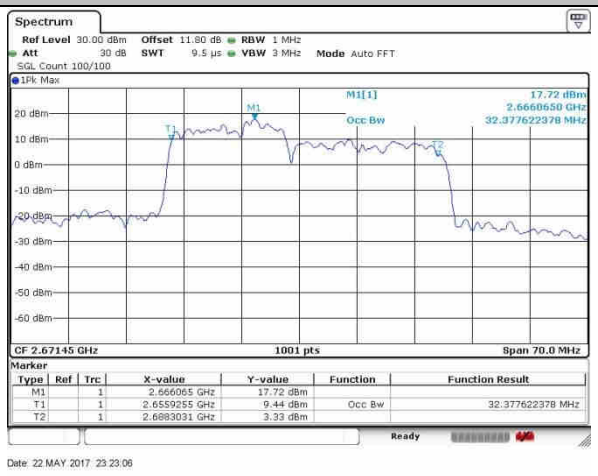
Middle Channel / 15MHz+20MHz

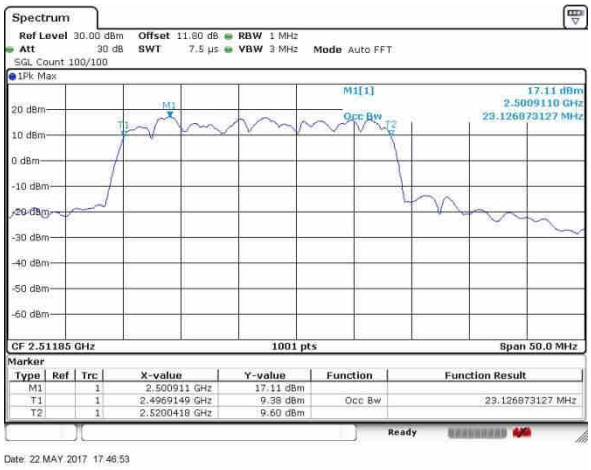
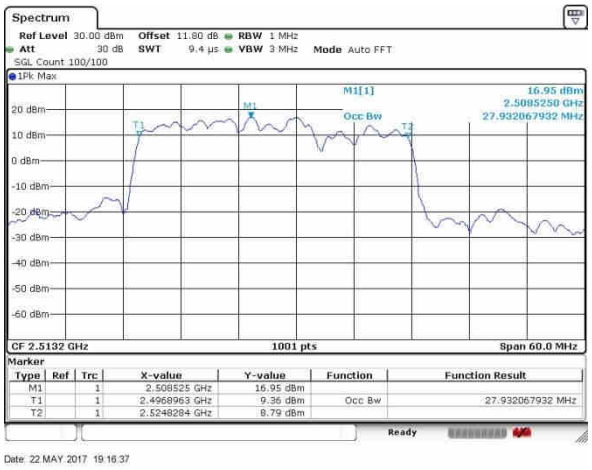
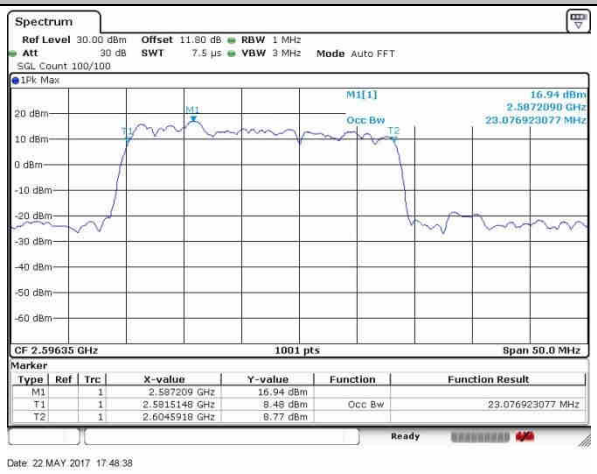
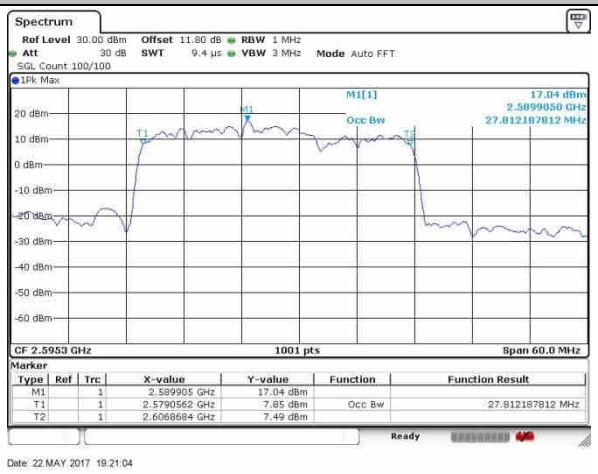
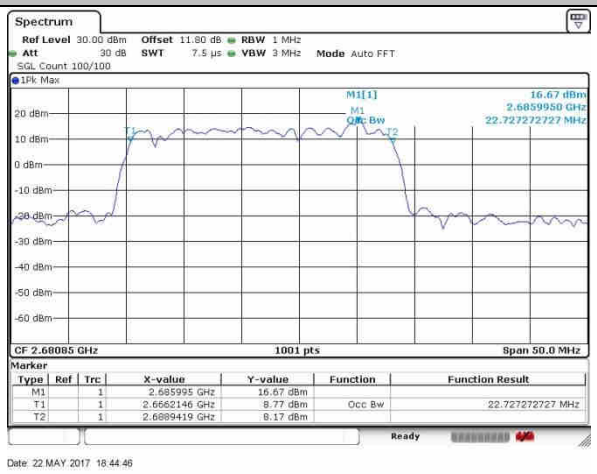
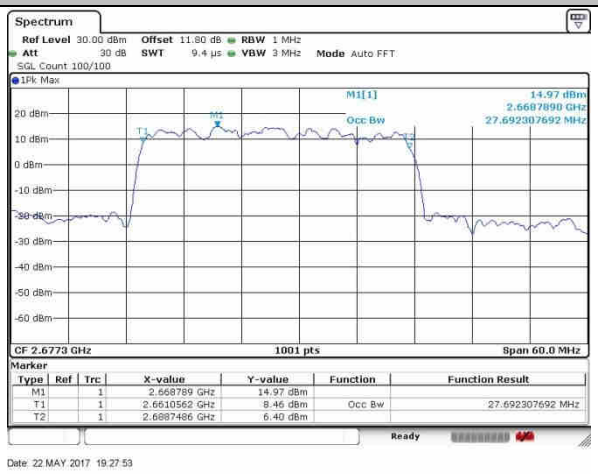


Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

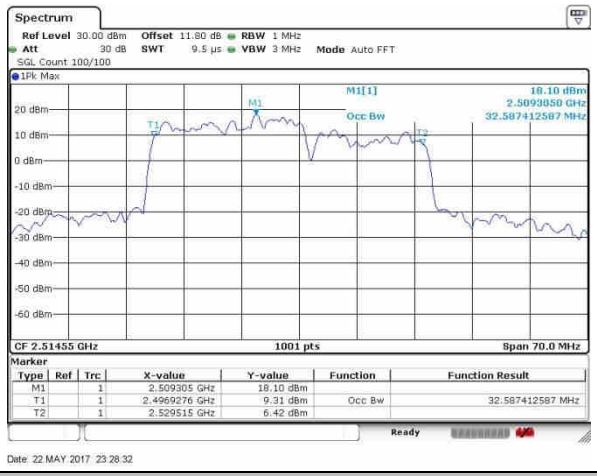


LTE Band 41	
16QAM	
Lowest Channel / 20MHz+5MHz	Lowest Channel / 20MHz+10MHz
	
Middle Channel / 20MHz+5MHz	Middle Channel / 20MHz+10MHz
	
Highest Channel / 20MHz+5MHz	Highest Channel / 20MHz+10MHz
	

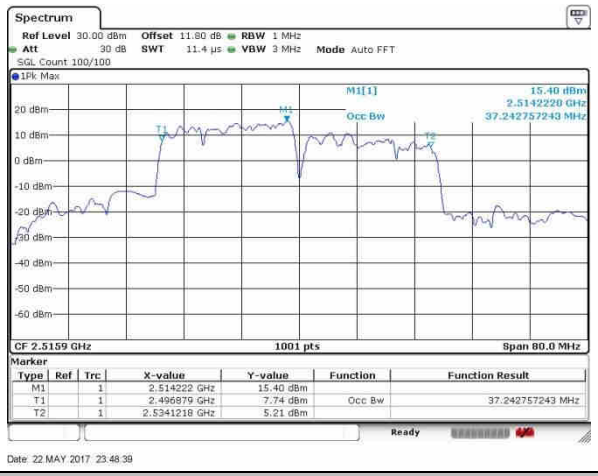
LTE Band 41

16QAM

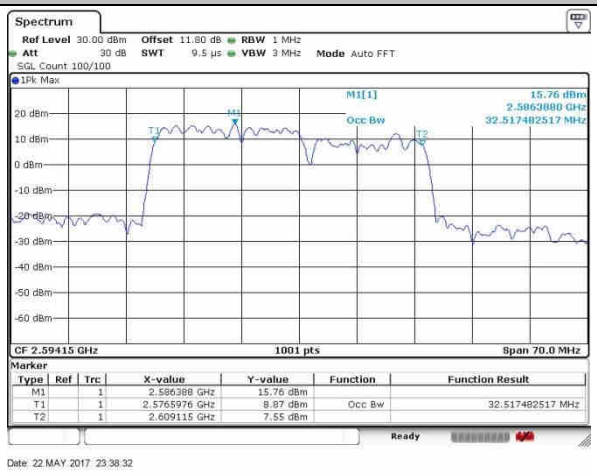
Lowest Channel / 20MHz+15MHz



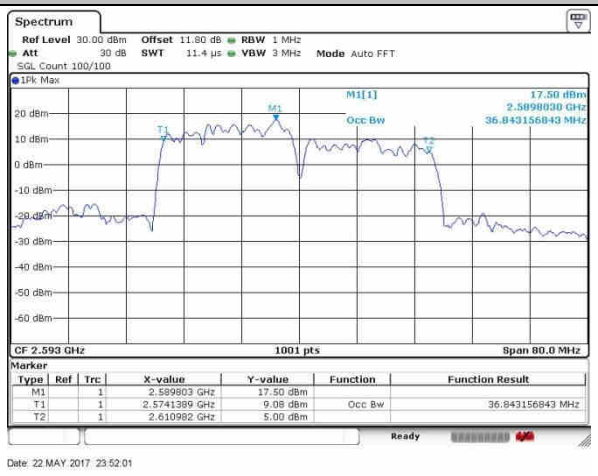
Lowest Channel / 20MHz+20MHz



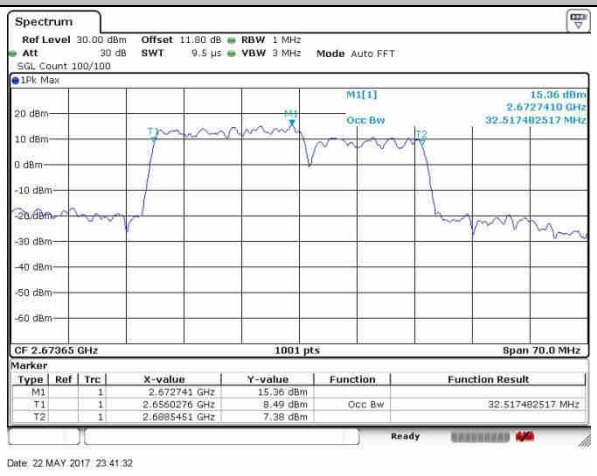
Middle Channel / 20MHz+15MHz



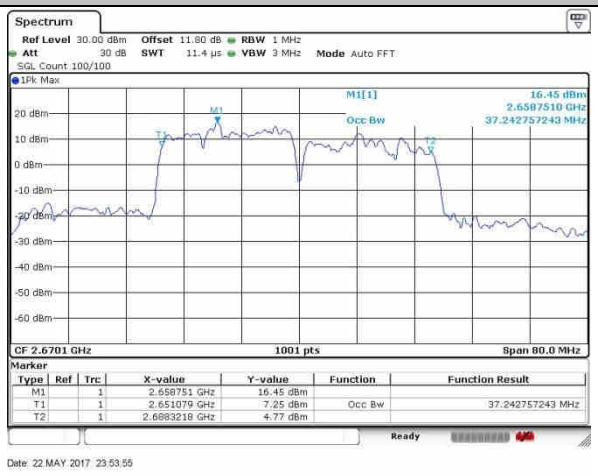
Middle Channel / 20MHz+20MHz



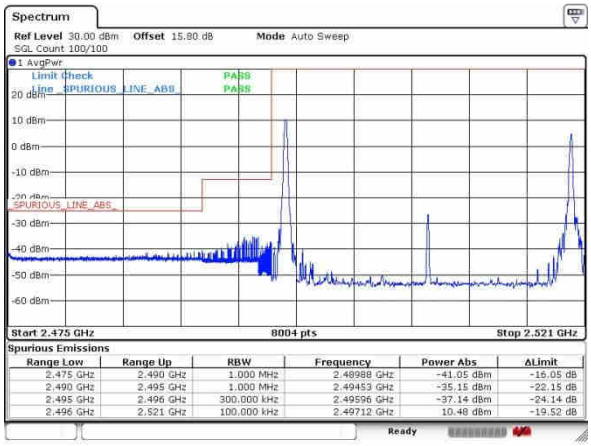
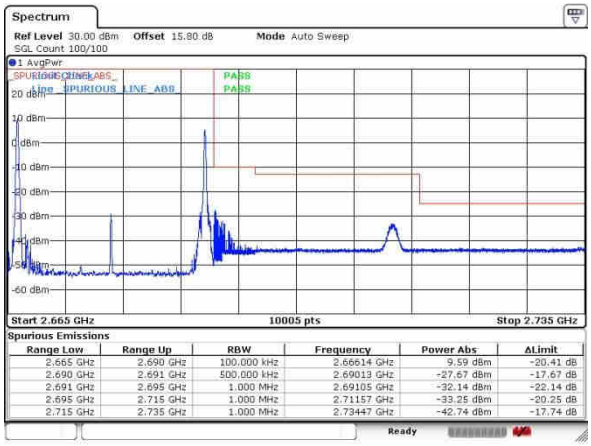
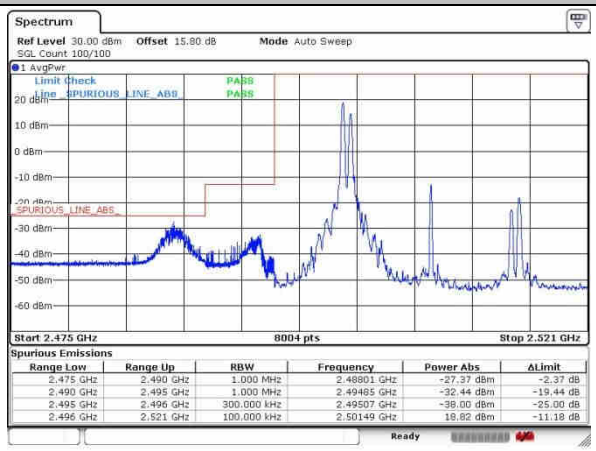
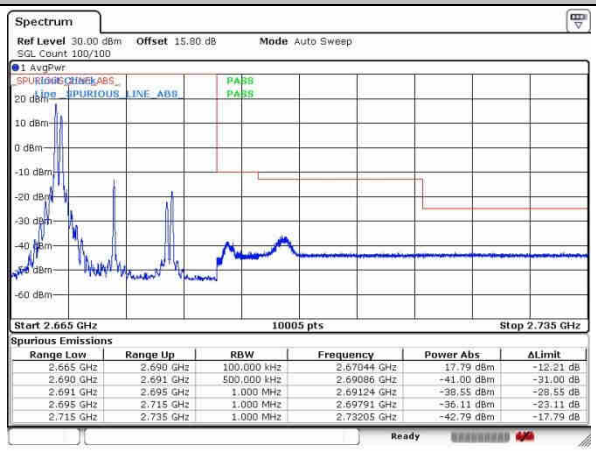
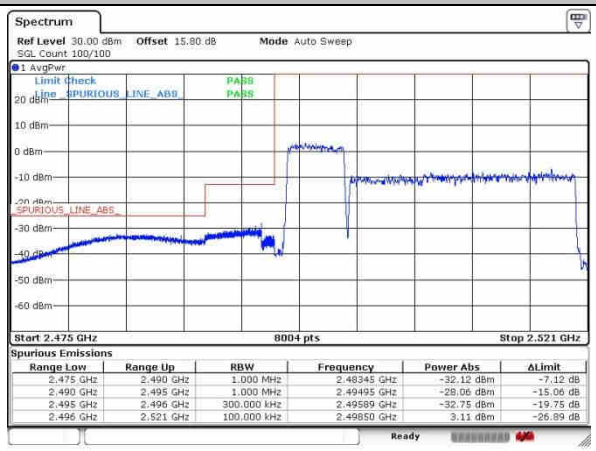
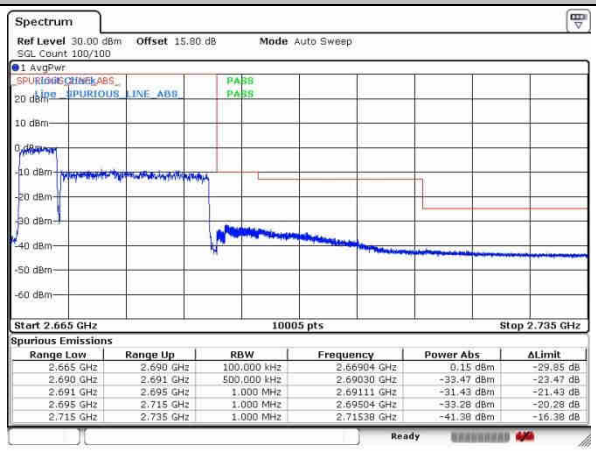
Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz



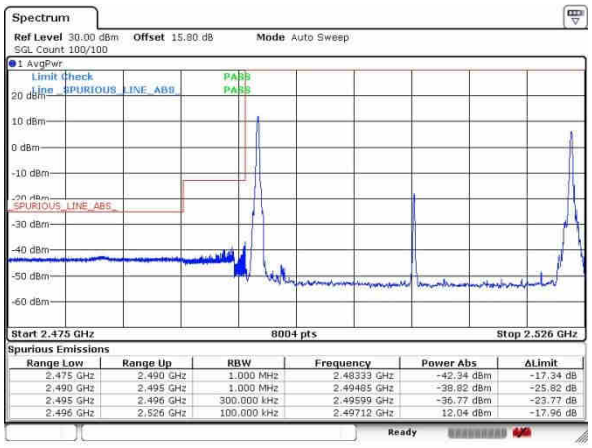
Conducted Band Edge

LTE Band 41 / 5MHz+20MHz	
QPSK	
Lowest Band Edge / 1RB0 and 1RB99	Highest Band Edge / 1RB0 and 1RB99
	
Lowest Band Edge / 1RB24 and 1RB0	Highest Band Edge / 1RB24 and 1RB0
	
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

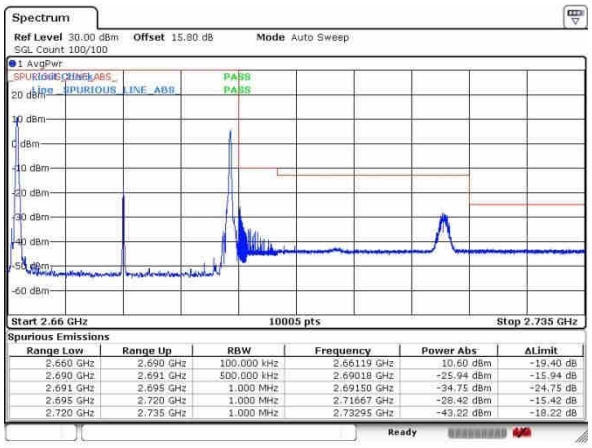
LTE Band 41 / 10MHz+20MHz

QPSK

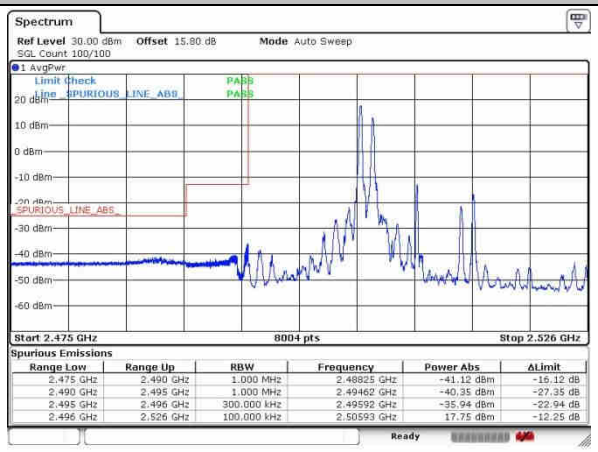
Lowest Band Edge / 1RB0 and 1RB99



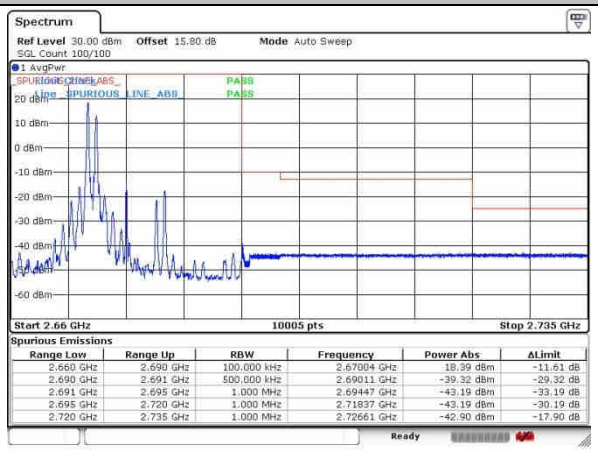
Highest Band Edge / 1RB0 and 1RB99



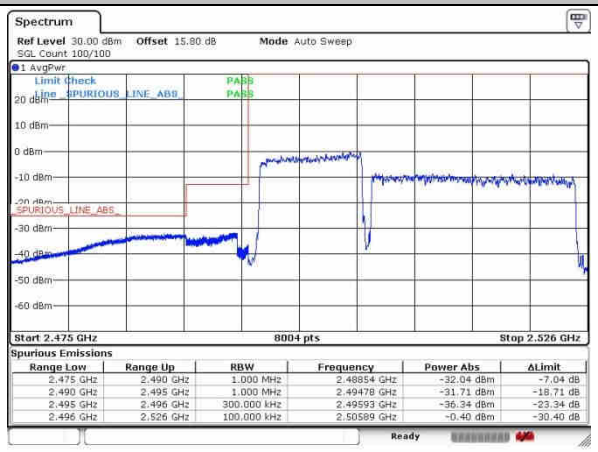
Lowest Band Edge / 1RB49 and 1RB0



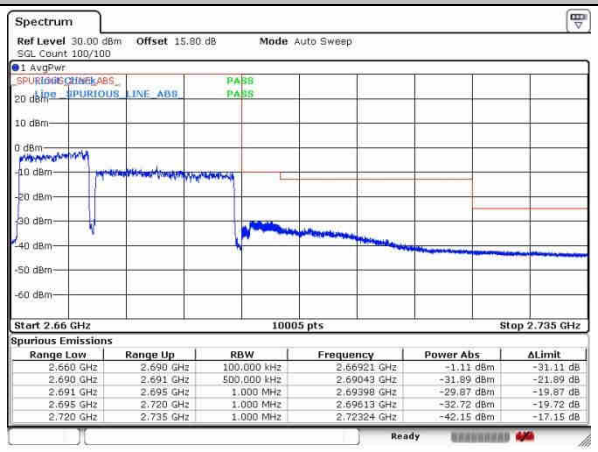
Highest Band Edge / 1RB49 and 1RB0

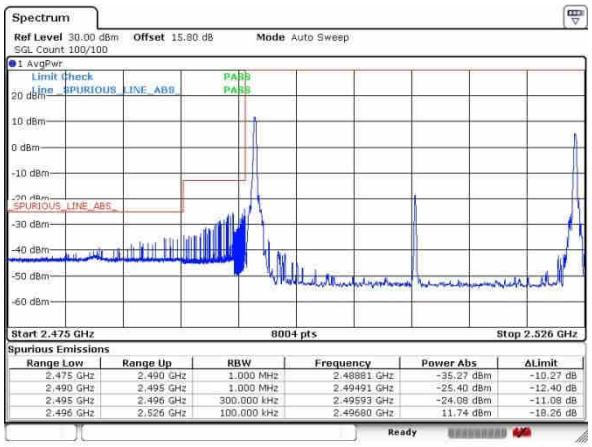
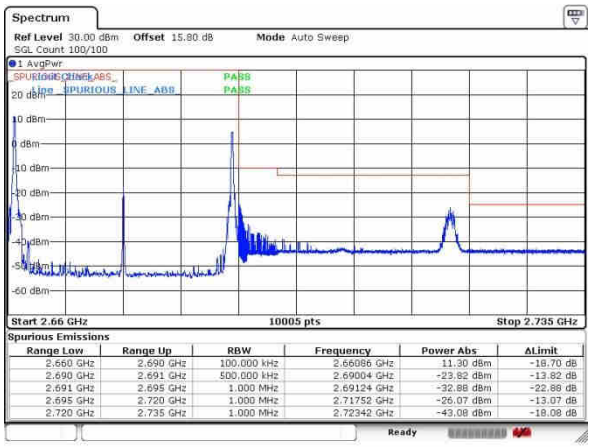
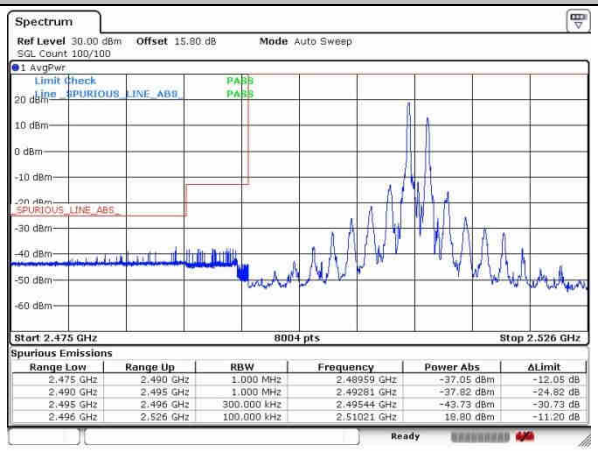
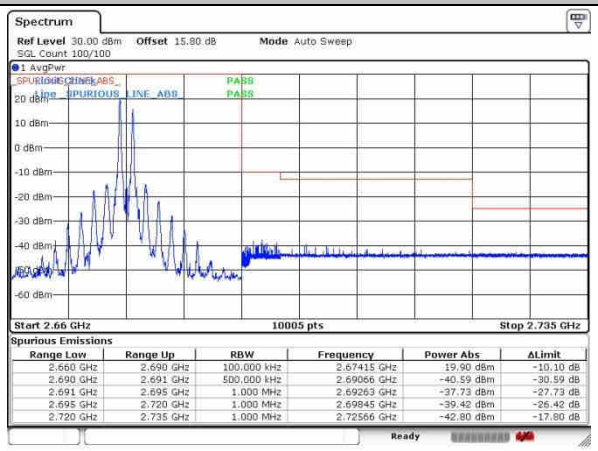
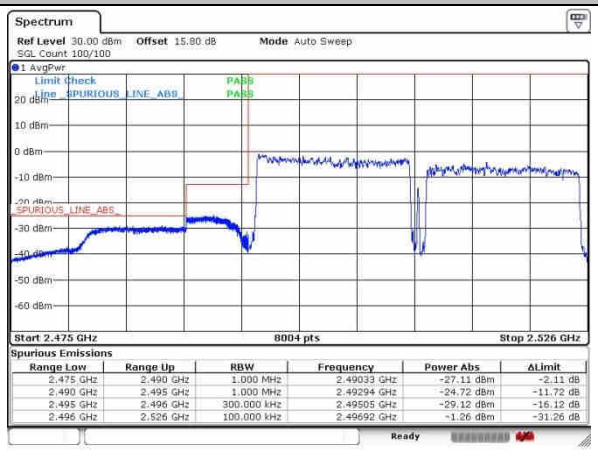
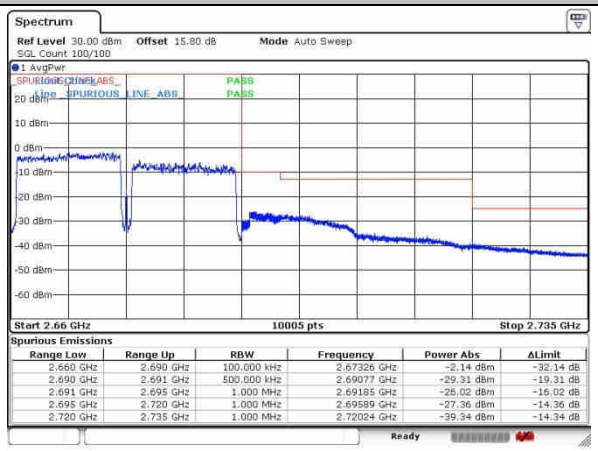


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

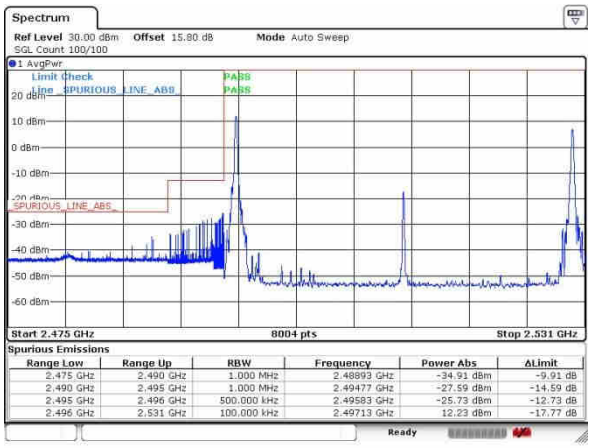


LTE Band 41 / 15MHz+15MHz	
QPSK	
Lowest Band Edge / 1RB0 and 1RB74	**Highest Band Edge / 1RB0 and 1RB74**
	
Lowest Band Edge / 1RB74 and 1RB0	**Highest Band Edge / 1RB74 and 1RB0**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 41 / 15MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

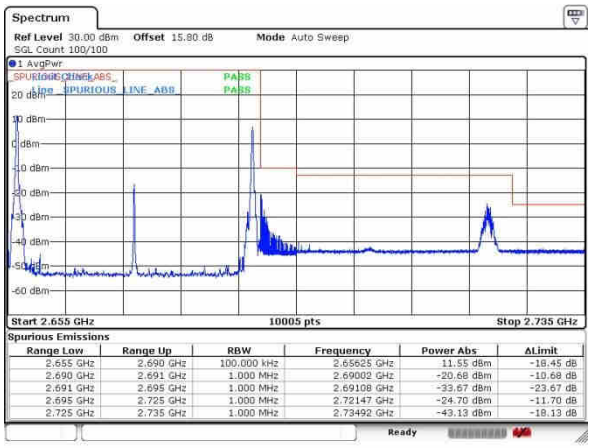


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48893 GHz	-34.91 dBm	-9.91 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49477 GHz	-27.59 dBm	-14.59 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49583 GHz	-25.73 dBm	-12.73 dB
2.496 GHz	2.531 GHz	100.000 kHz	2.49713 GHz	12.23 dBm	-17.77 dB

Date: 27.MAY.2017 03:07:01

Highest Band Edge / 1RB0 and 1RB99

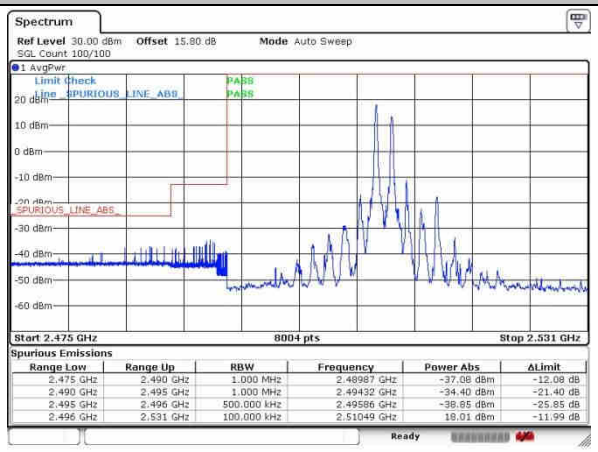


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.655 GHz	2.690 GHz	100.000 kHz	2.65625 GHz	11.55 dBm	-18.45 dB
2.690 GHz	2.691 GHz	1.000 MHz	2.69002 GHz	-20.68 dBm	-10.68 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69108 GHz	-33.67 dBm	-23.67 dB
2.695 GHz	2.725 GHz	1.000 MHz	2.72147 GHz	-24.70 dBm	-11.70 dB
2.725 GHz	2.735 GHz	1.000 MHz	2.73492 GHz	-43.13 dBm	-18.13 dB

Date: 27.MAY.2017 03:05:07

Lowest Band Edge / 1RB74 and 1RB0

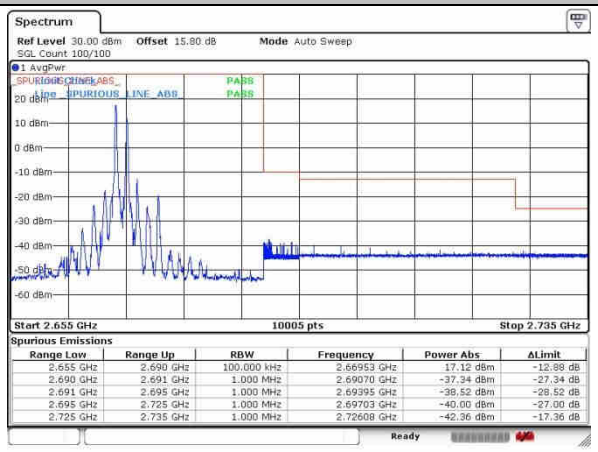


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48987 GHz	-37.08 dBm	-12.08 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49432 GHz	-34.40 dBm	-21.40 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49586 GHz	-38.85 dBm	-25.85 dB
2.496 GHz	2.531 GHz	100.000 kHz	2.51049 GHz	18.01 dBm	-11.99 dB

Date: 27.MAY.2017 03:06:26

Highest Band Edge / 1RB74 and 1RB0

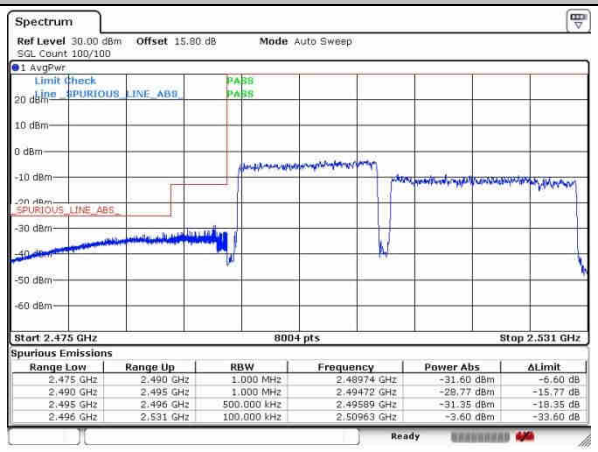


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.655 GHz	2.690 GHz	100.000 kHz	2.66953 GHz	17.12 dBm	-12.88 dB
2.690 GHz	2.691 GHz	1.000 MHz	2.69070 GHz	-37.34 dBm	-27.34 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69395 GHz	-38.52 dBm	-28.52 dB
2.695 GHz	2.725 GHz	1.000 MHz	2.69703 GHz	-40.00 dBm	-27.00 dB
2.725 GHz	2.735 GHz	1.000 MHz	2.72608 GHz	-42.36 dBm	-17.36 dB

Date: 27.MAY.2017 03:05:43

Lowest Band Edge / Full RB

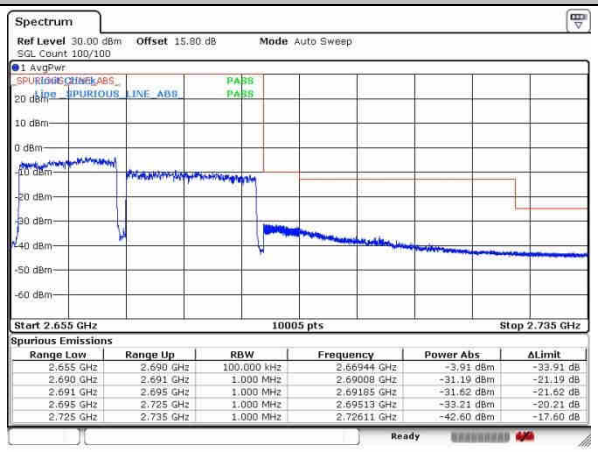


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48974 GHz	-31.60 dBm	-6.60 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49472 GHz	-28.77 dBm	-15.77 dB
2.495 GHz	2.496 GHz	500.000 kHz	2.49589 GHz	-31.35 dBm	-18.35 dB
2.496 GHz	2.531 GHz	100.000 kHz	2.50963 GHz	-3.60 dBm	-33.60 dB

Date: 27.MAY.2017 03:07:20

Highest Band Edge / Full RB



Spurious Emissions

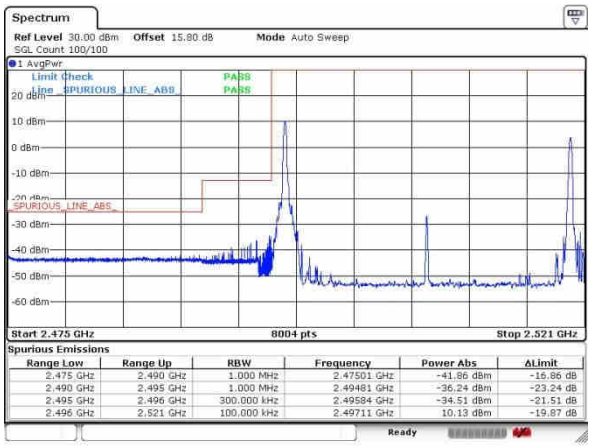
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.655 GHz	2.690 GHz	100.000 kHz	2.66944 GHz	-3.91 dBm	-33.91 dB
2.690 GHz	2.691 GHz	1.000 MHz	2.69008 GHz	-31.19 dBm	-21.19 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69185 GHz	-31.62 dBm	-21.62 dB
2.695 GHz	2.725 GHz	1.000 MHz	2.69513 GHz	-33.21 dBm	-20.21 dB
2.725 GHz	2.735 GHz	1.000 MHz	2.72611 GHz	-42.60 dBm	-17.60 dB

Date: 27.MAY.2017 03:04:49

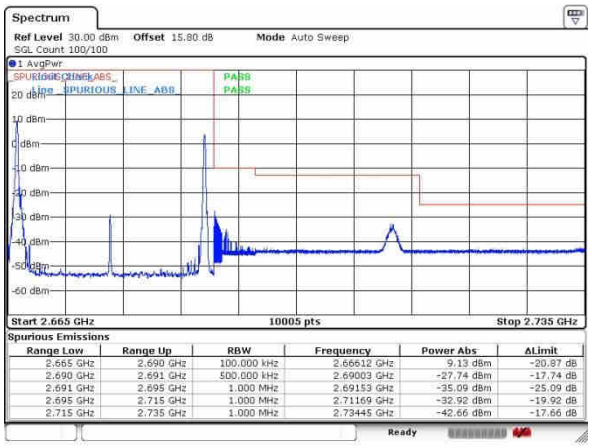
LTE Band 41 / 20MHz+5MHz

QPSK

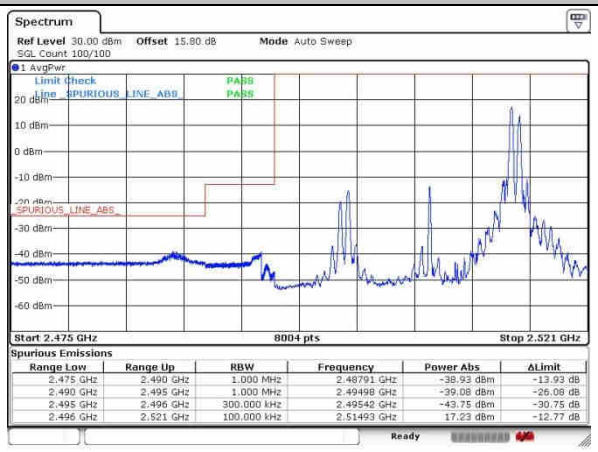
Lowest Band Edge / 1RB0 and 1RB24



Highest Band Edge / 1RB0 and 1RB24

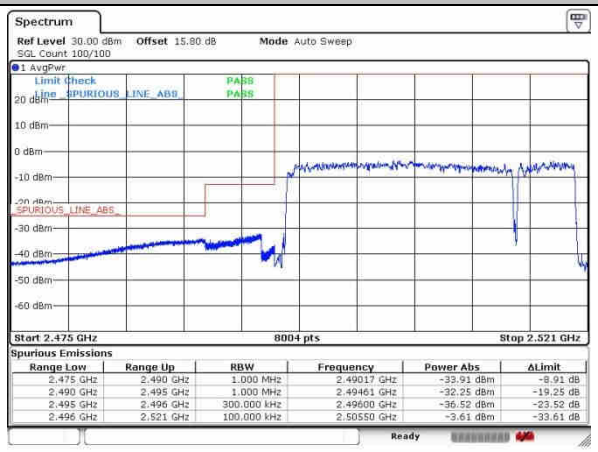


Lowest Band Edge / 1RB99 and 1RB0

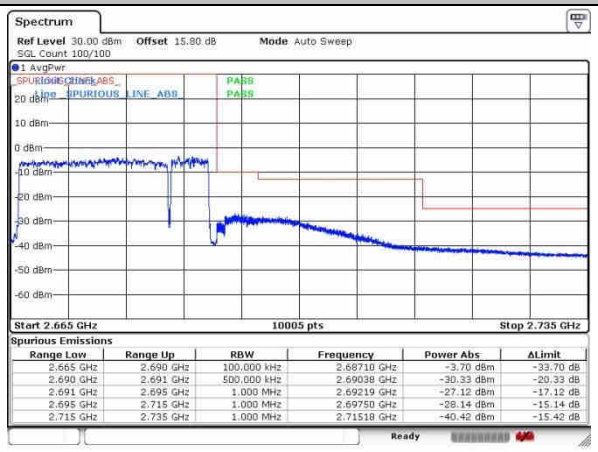


Highest Band Edge / 1RB99 and 1RB0

Lowest Band Edge / Full RB



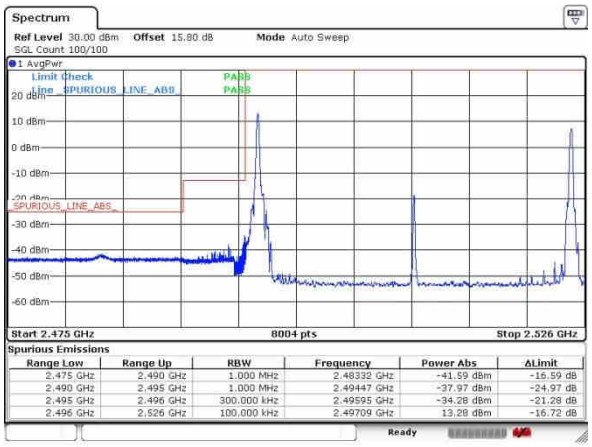
Highest Band Edge / Full RB



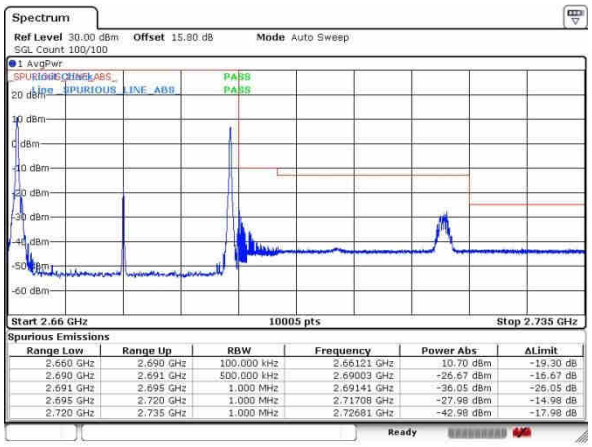
LTE Band 41 / 20MHz+10MHz

QPSK

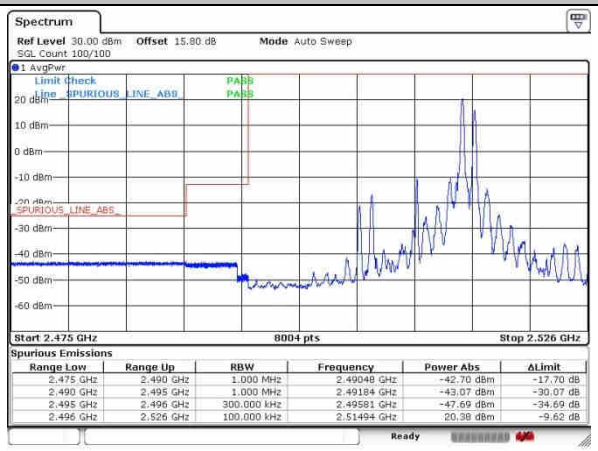
Lowest Band Edge / 1RB0 and 1RB49



Highest Band Edge / 1RB0 and 1RB49

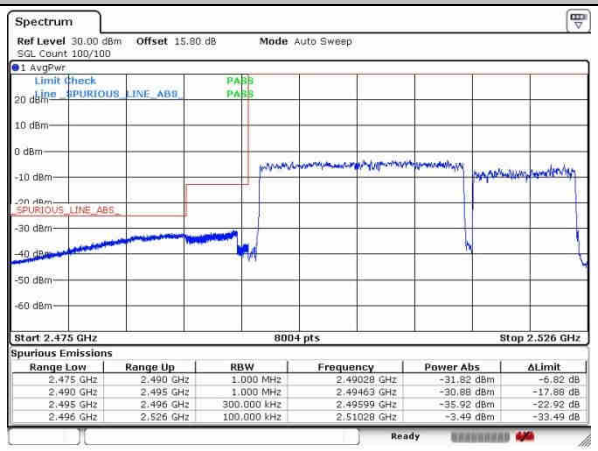


Lowest Band Edge / 1RB99 and 1RB0



Highest Band Edge / 1RB99 and 1RB0

Lowest Band Edge / Full RB



Highest Band Edge / Full RB