



FCC RADIO TEST REPORT

FCC ID : UZ7TC26AK
Equipment : Touch computer
Brand Name : Zebra
Model Name : TC26AK
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2, and 90(S)

The product was received on Mar. 12, 2020 and testing was started from Mar. 20, 2020 and completed on Apr. 26, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG010720D	01	Initial issue of report	Apr. 30, 2020



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	-
3.5	§2.1051 §90.691	Emission masks – In-band emissions	Pass	-
3.6	§2.1051 §90.691	Emission masks – Out of band emissions	Pass	-
3.7	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	Pass	-
3.8	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 34.04 dB at 3256.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Tina Chuang



1 General Description

1.1 Feature of Equipment Under Test

Product Feature	
Equipment	Touch computer
Brand Name	Zebra
Model Name	TC26AK
FCC ID	UZ7TC26AK
Sample	Single-WAN, WLAN, GMS, SE4710, NFC, 4GB/64GB, Rear camera and Front camera, 2-pin connector
EUT supports Radios application	WCDMA/HSPA/LTE/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV0
SW Version	Android version 10
OS Version	FUSION_QA_2_1.0.0.008_Q
FW Version	Zebra/TC26PA/TC26:10/03-09-09.00-QN-U00-PRD/Nabe030 91333:userdebug/test-keys
MFD	26MAR20
EUT Stage	Engineering sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Battery 1	Brand Name	Zebra	Part Number	BT-000409-00
Battery 2	Brand Name	Zebra	Part Number	BT-000409-50
Battery 3	Brand Name	Zebra	Part Number	BT-000411-08
USB Cable 1 (Type A plug to Type C plug)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01
USB Cable 2 (Type A plug to Type C plug)	Brand Name	Zebra	Part Number	CBL-TC2Y-USBC90A-01
Headset 3.5mm type with PTT/micassy	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
Adapter Cable PTT headset (3.5mm to 3.5mm)	Brand Name	Zebra	Part Number	CBL-TC51-HDST35-01
Snap on Trigger handle	Brand Name	Zebra	Part Number	TRG-TC2Y-SNP1-01
Belt Holster	Brand Name	Zebra	Part Number	SG-TC2Y-HLSTR1-01
Wearable Arm Mount	Brand Name	Zebra	Part Number	SG-TC2Y-ARMNT-01

Support Unit used in test configuration and system				
Type C to 3.5mm headset adaptor	Brand Name	Google	Part Number	Pixel-2-2XL

1.2 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	24.19 dBm
Antenna Type	PIFA Antenna
Antenna Gain	1.4 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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

1.4 Emission Designator

LTE Band 26		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	814.7~823.3	1M10G7D	-	-	1M09W7D	-	-	1M10W7D	-	-
3	815.5~822.5	2M73G7D	-	-	2M73W7D	-	-	2M73W7D	-	-
5	816.5~821.5	4M53G7D	-	-	4M52W7D	-	-	4M50W7D	-	-
10	819.0	9M03G7D	0.0203	-	9M03W7D	-	-	9M03W7D	-	-
15	821.5	13M4G7D	0.0207	0.2208	13M5W7D	-	0.1897	13M4W7D	-	0.1476



1.5 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Louis Chung
Temperature	21~24°C
Relative Humidity	51~55%

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY
Test Engineer	Cookie Ku, Fu Chen, Troye Hsieh, and Quentin Liu
Temperature	19.6~26.5°C
Relative Humidity	59.6~70.1%

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

FCC Designation No.: TW1190 and TW0007



1.6 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
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

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

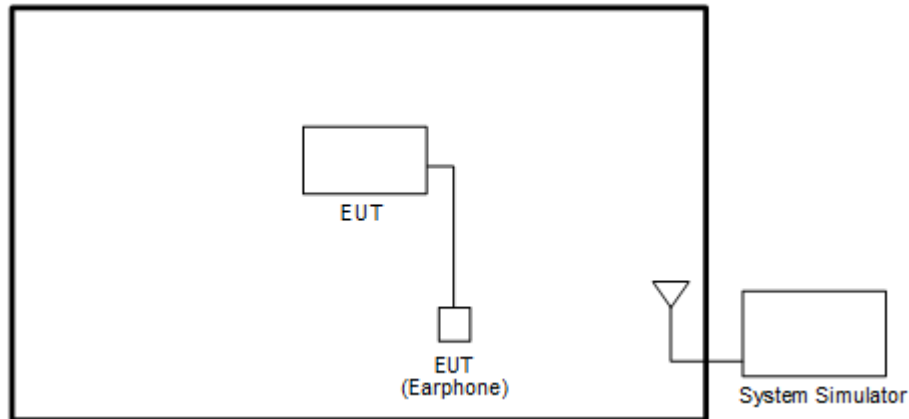
During all testing, EUT is in link mode with base station emulator at maximum power level.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and Accessory. The worst cases (Y plane with Earphone) were recorded in this report.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Conducted Test Cases	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
Peak-to-Average Ratio	26					v	-	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v	v			v	v	v	v
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v	v		v	v		v
Emission masks – Out of band emissions	26	v	v	v	v	v	-	v	v	v	v			v	v	v
Frequency Stability	26	-	-		v	v	-	v					v		v	
E.R.P.	26					v	-	v	v	v	v			v		
Radiated Spurious Emission	26	Worst Case											v	v	v	
Remark	<ol style="list-style-type: none"> 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. All the radiated test cases were performed with USB Cable 1. 															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 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 4.2 dB and a 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$



2.5 Frequency List of Low/Middle/High Channels

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

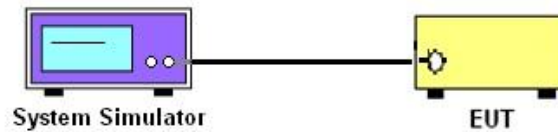
3 Conducted Test Items

3.1 Measuring Instruments

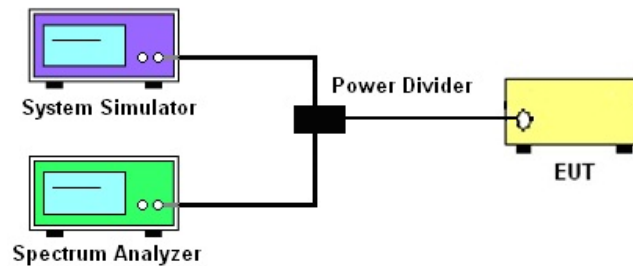
See list of measuring instruments of this test report.

3.1.1 Test Setup

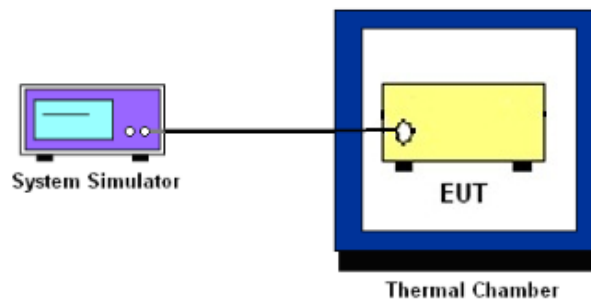
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, Emissions Mask – Out Of Band Emissions, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power Measurement and ERP Measurement

3.2.1 Description of the Conducted Output Power Measurement and ERP 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.

The ERP of mobile transmitters must not exceed 100 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, 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

3.2.2 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.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Reporting only

3.3.2 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 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.

3.4.2 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.



3.5 Emissions Mask Measurement

3.5.1 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 $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ 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 $43 + 10 \text{ Log}_{10}(P)$ 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.

3.5.2 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. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge , RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.



3.6 Emissions Mask – Out Of Band Emissions Measurement

3.6.1 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.

3.6.2 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. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Measuring Instruments

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

3.7.3 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.

3.7.4 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.



3.8 Field Strength of Spurious Radiation Measurement

3.8.1 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.

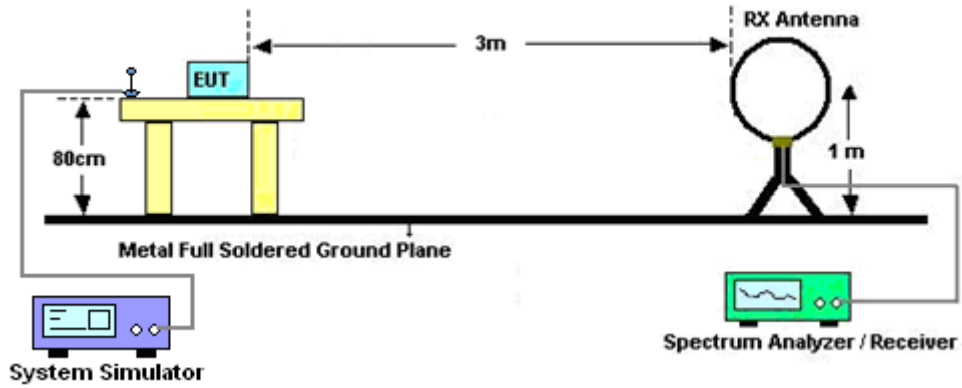
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43+10\log_{10}(P[\text{Watts}])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

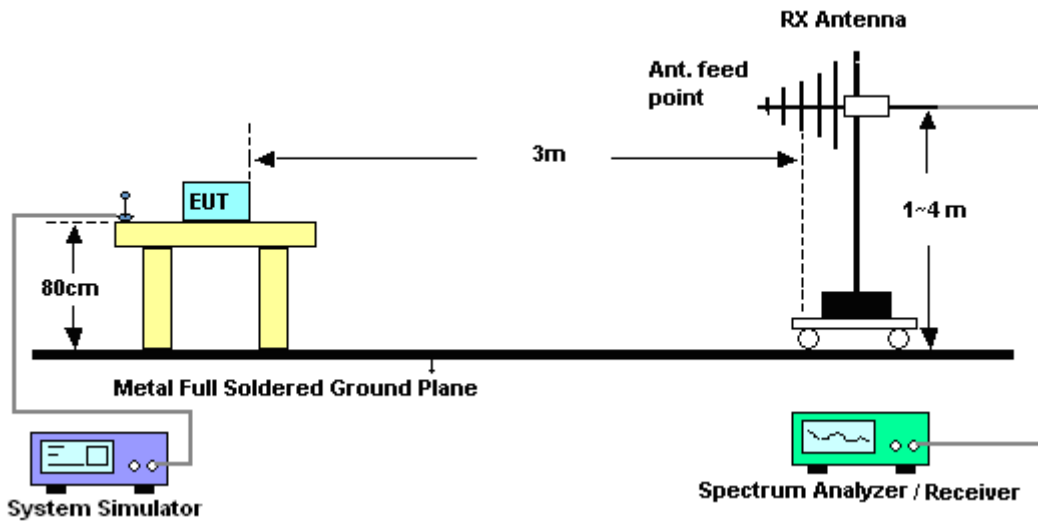
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position 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. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
12. $\text{ERP (dBm)} = \text{EIRP} - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.8.3 Test Setup

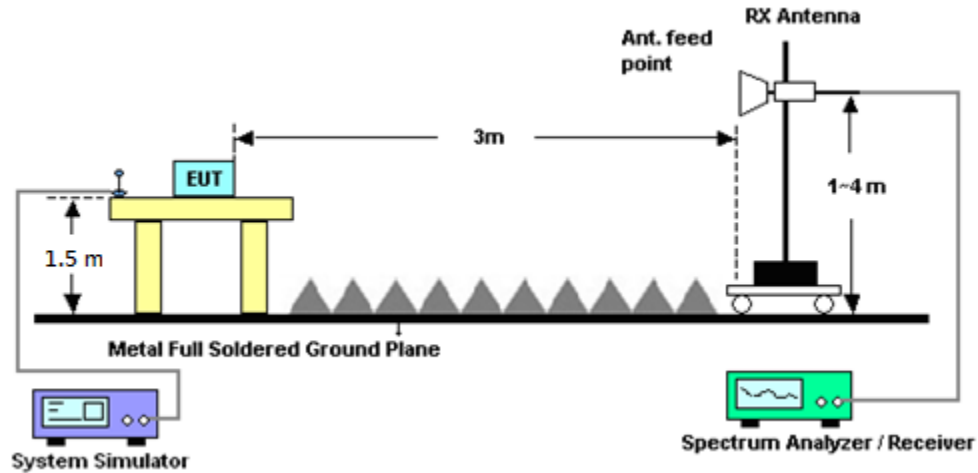
For radiated emissions below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.8.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Mar. 25, 2020~ Apr. 26, 2020	Dec. 12, 2020	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Mar. 25, 2020~ Apr. 26, 2020	Dec. 02, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 10, 2019	Mar. 25, 2020~ Apr. 26, 2020	Dec. 09, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 04, 2019	Mar. 25, 2020~ Apr. 26, 2020	Nov. 03, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Mar. 25, 2020~ Apr. 26, 2020	Jan. 08, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 13, 2019	Mar. 25, 2020~ Apr. 26, 2020	Nov. 12, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 28, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60SS	SN2	1.2GHz High Pass Filter	Sep. 15, 2019	Mar. 25, 2020~ Apr. 26, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 15, 2019	Mar. 25, 2020~ Apr. 26, 2020	Sep. 14, 2020	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Nov. 01, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 31, 2020	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 25, 2020~ Apr. 26, 2020	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP140325	N/A	Nov. 07, 2019	Mar. 25, 2020~ Apr. 26, 2020	Nov. 06, 2020	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTN-303B	TP161237	N/A	Oct. 25, 2019	Mar. 25, 2020~ Apr. 26, 2020	Oct. 24, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	Mar. 25, 2020~ Apr. 26, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Mar. 25, 2020~ Apr. 26, 2020	Aug. 26, 2020	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6262025341	GSM / GPRS /WCDMA / LTE FDD/TDD with 44) /LTE-3CC DLCA,2CC ULCA	Oct. 24, 2019	Mar. 20, 2020~ Apr. 01, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	100895	10Hz~30GHz	Apr. 24, 2019	Mar. 20, 2020~ Apr. 01, 2020	Apr. 23, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 02, 2019	Mar. 20, 2020~ Apr. 01, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	Mar. 20, 2020~ Apr. 01, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 20W SMA Directional Coupler	WRTA4WAM 2B2	0.4-26.5GHz	Jan. 23, 2020	Mar. 20, 2020~ Apr. 01, 2020	Jan. 22, 2021	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	Mar. 20, 2020~ Apr. 01, 2020	Jan. 12, 2021	Conducted (TH05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.09
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.44
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.95
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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	24.19	-	-
15	1	37		24.15	-	-
15	1	74		24.18	-	-
15	36	0		23.28	-	-
15	36	20		23.34	-	-
15	36	39		23.27	-	-
15	75	0		23.27	-	-
15	1	0	16-QAM	23.44	-	-
15	1	37		23.50	-	-
15	1	74		23.53	-	-
15	36	0		22.31	-	-
15	36	20		22.39	-	-
15	36	39		22.32	-	-
15	75	0		22.38	-	-
15	1	0	64-QAM	22.40	-	-
15	1	37		22.43	-	-
15	1	74		22.44	-	-
15	36	0		21.36	-	-
15	36	20		21.44	-	-
15	36	39		21.39	-	-
15	75	0		21.37	-	-
10	1	0	QPSK	-	24.15	-
10	1	25		-	24.05	-
10	1	49		-	24.11	-
10	25	0		-	23.27	-
10	25	12		-	23.29	-
10	25	25		-	23.24	-
10	50	0		-	23.17	-
10	1	0	16-QAM	-	23.46	-
10	1	25		-	23.59	-
10	1	49		-	23.41	-
10	25	0		-	22.21	-
10	25	12		-	22.21	-
10	25	25		-	22.32	-
10	50	0		-	22.28	-
10	1	0	64-QAM	-	22.49	-
10	1	25		-	22.44	-
10	1	49		-	22.24	-
10	25	0		-	21.37	-
10	25	12		-	21.29	-
10	25	25		-	21.32	-
10	50	0		-	21.29	-



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.11	24.08	24.10
5	1	12		24.11	24.04	24.02
5	1	24		24.13	24.09	23.88
5	12	0		23.10	23.09	23.07
5	12	7		23.23	23.26	23.21
5	12	13		23.08	23.17	23.02
5	25	0		23.12	23.14	22.96
5	1	0	16-QAM	23.26	23.38	23.47
5	1	12		23.41	23.53	23.29
5	1	24		23.50	23.43	23.21
5	12	0		22.11	22.21	22.17
5	12	7		22.19	22.23	22.11
5	12	13		22.32	22.31	22.08
5	25	0		22.34	22.20	22.18
5	1	0	64-QAM	22.25	22.41	22.30
5	1	12		22.41	22.46	22.30
5	1	24		22.28	22.26	22.24
5	12	0		21.19	21.23	21.16
5	12	7		21.36	21.37	21.24
5	12	13		21.22	21.23	21.10
5	25	0		21.35	21.39	21.24
3	1	0	QPSK	23.93	24.19	24.11
3	1	8		24.02	24.01	24.02
3	1	14		24.05	24.05	23.97
3	8	0		23.14	23.25	23.05
3	8	4		23.34	23.25	23.09
3	8	7		23.22	23.13	22.96
3	15	0		23.08	23.23	23.01
3	1	0	16-QAM	23.28	23.51	23.50
3	1	8		23.46	23.47	23.22
3	1	14		23.48	23.45	23.20
3	8	0		22.21	22.41	22.07
3	8	4		22.36	22.24	22.18
3	8	7		22.28	22.27	22.14
3	15	0		22.33	22.31	22.17
3	1	0	64-QAM	22.29	22.50	22.42
3	1	8		22.42	22.47	22.27
3	1	14		22.38	22.25	22.27
3	8	0		21.34	21.32	21.12
3	8	4		21.33	21.34	21.26
3	8	7		21.36	21.19	21.06
3	15	0		21.22	21.20	21.18



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.99	24.10	23.93
1.4	1	3		24.05	24.17	24.01
1.4	1	5		23.97	24.10	23.90
1.4	3	0		24.05	24.14	23.97
1.4	3	1		24.07	24.17	24.04
1.4	3	3		24.04	24.13	23.98
1.4	6	0		23.01	23.17	23.00
1.4	1	0	16-QAM	23.31	23.42	23.23
1.4	1	3		23.39	23.54	23.27
1.4	1	5		23.27	23.45	23.17
1.4	3	0		23.12	23.23	23.01
1.4	3	1		23.16	23.28	23.08
1.4	3	3		23.11	23.24	23.01
1.4	6	0		22.18	22.31	22.16
1.4	1	0	64-QAM	22.24	22.41	22.18
1.4	1	3		22.31	22.46	22.25
1.4	1	5		22.24	22.36	22.14
1.4	3	0		22.26	22.37	22.21
1.4	3	1		22.31	22.43	22.21
1.4	3	3		22.25	22.37	22.20
1.4	6	0		21.15	21.28	21.10



LTE Band 26_Part 90S

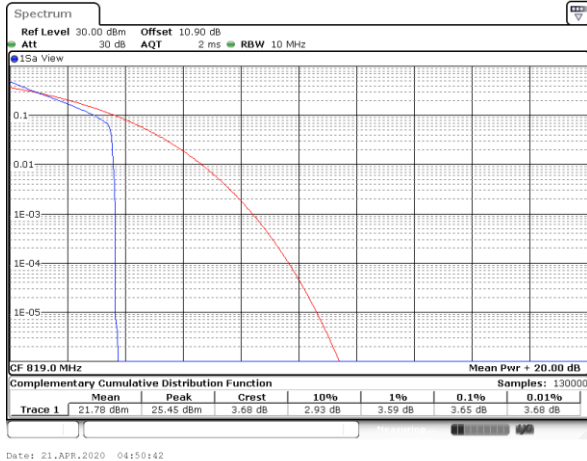
Peak-to-Average Ratio

Mode	LTE Band 26 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.65	4.72	5.39	6.03	
Highest CH	-	-	-	-	
Mode	LTE Band 26 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.43	6.58	-	-	
Highest CH	-	-	-	-	



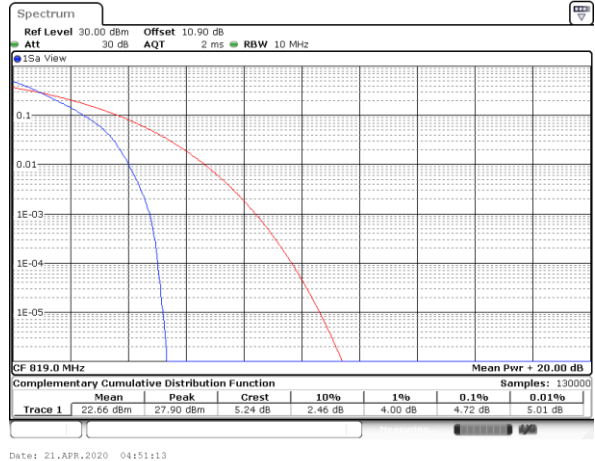
LTE Band 26 / 10MHz / QPSK

Middle Channel / 1RB



Date: 21.APR.2020 04:50:42

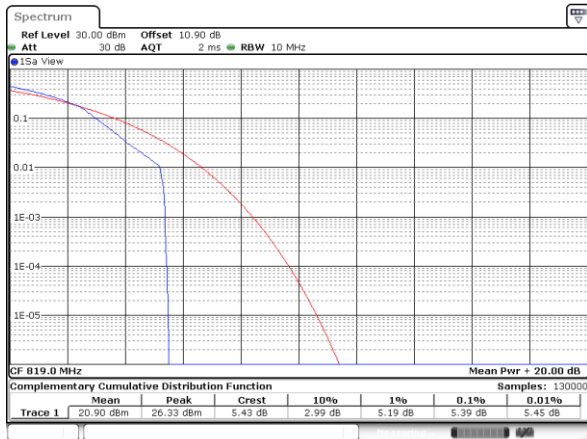
Middle Channel / Full RB



Date: 21.APR.2020 04:51:13

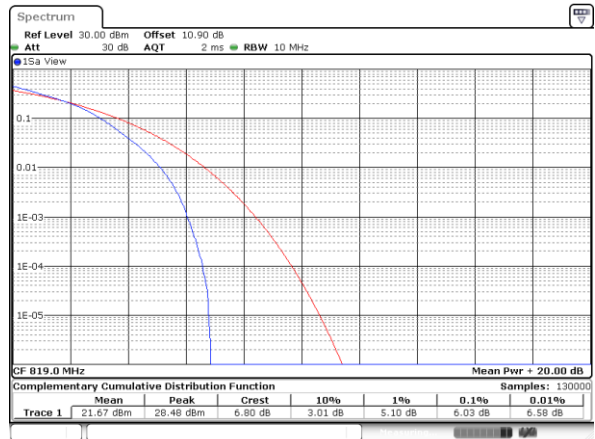
LTE Band 26 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 21.APR.2020 04:50:53

Middle Channel / Full RB

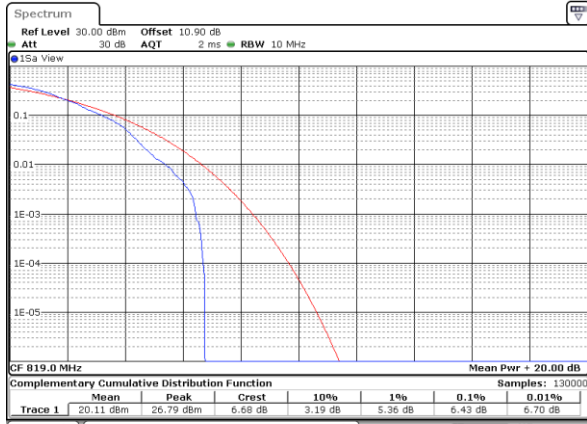


Date: 21.APR.2020 04:51:03



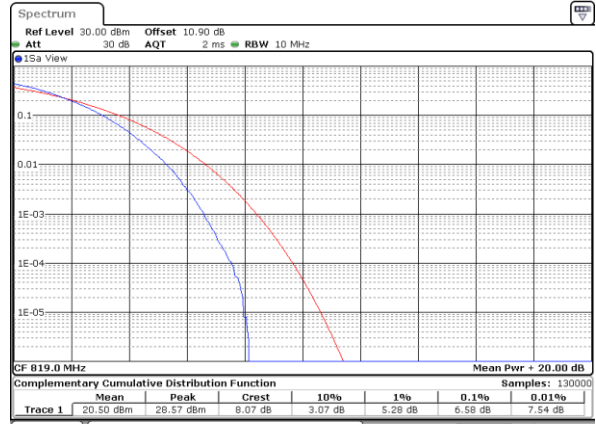
LTE Band 26 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 21.APR.2020 04:51:23

Middle Channel / Full RB



Date: 21.APR.2020 04:51:34



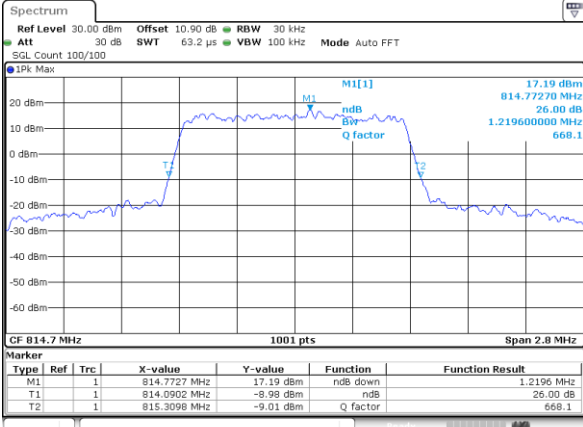
26dB Bandwidth

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	1.22	1.22	3.07	3.03	4.94	4.91	-	-	14.27	14.15	-	-
Middle CH	1.24	1.23	3.02	3.02	4.95	4.98	9.77	9.85	-	-	-	-
Highest CH	1.22	1.21	2.98	3.06	5.01	4.92	-	-	-	-	-	-
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.03	-	4.91	-	-	-	14.45	-	-	-
Middle CH	1.23	-	3.03	-	4.95	-	9.73	-	-	-	-	-
Highest CH	1.23	-	3.03	-	4.86	-	-	-	-	-	-	-



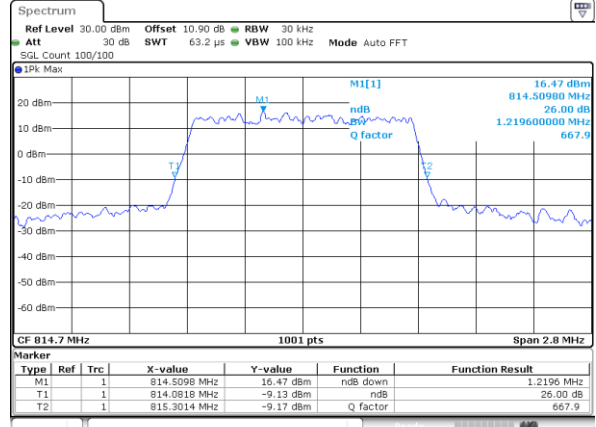
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



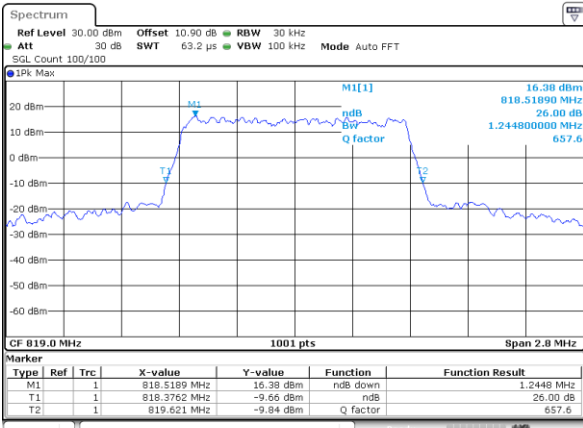
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Lowest Channel / 1.4MHz / 16QAM



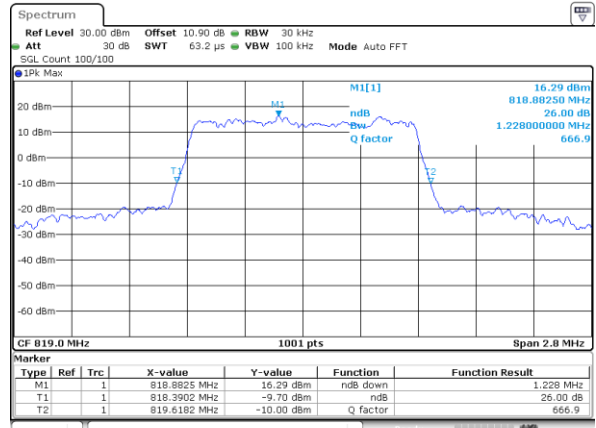
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Middle Channel / 1.4MHz / QPSK



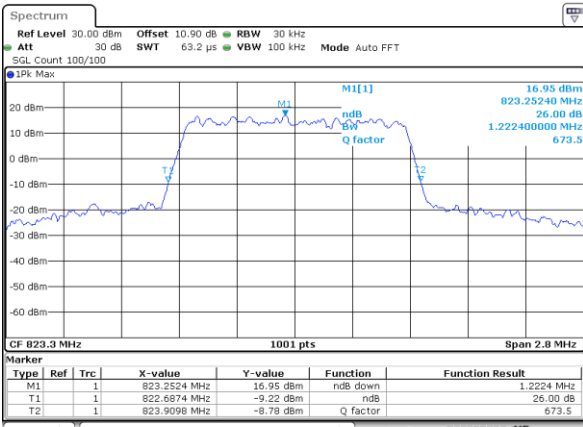
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Middle Channel / 1.4MHz / 16QAM



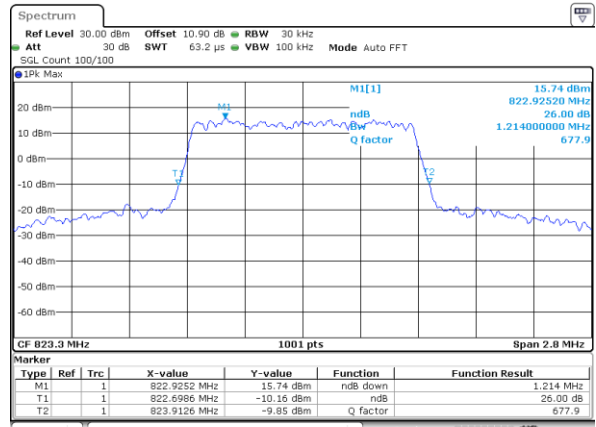
Date: 20_APR.2020 08:23:50

Highest Channel / 1.4MHz / QPSK



Date: 20_APR.2020 08:25:57

Highest Channel / 1.4MHz / 16QAM

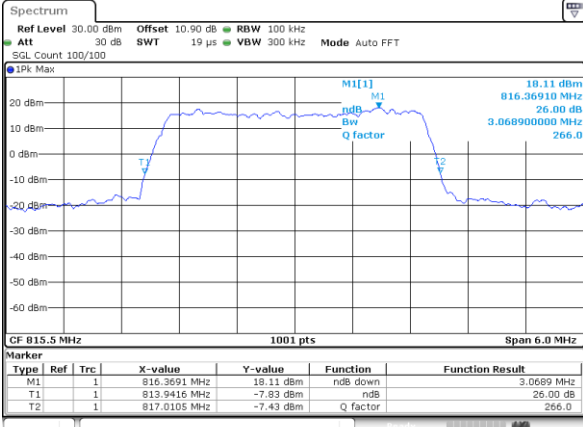


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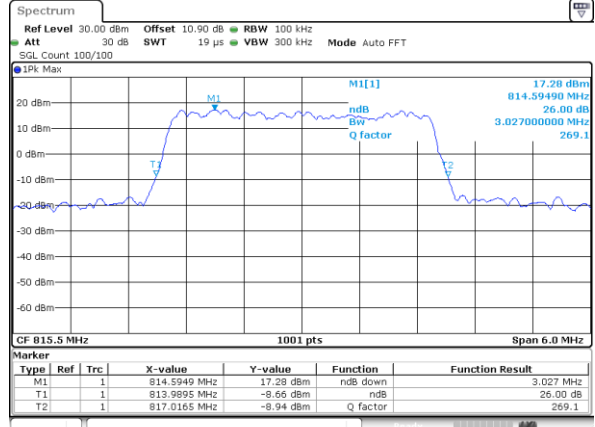
LTE Band 26

Lowest Channel / 3MHz / QPSK



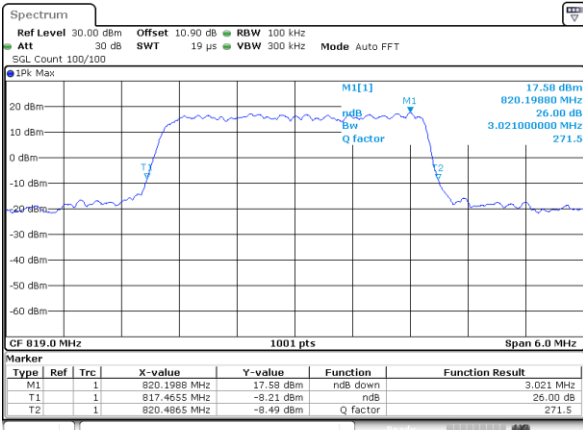
Date: 21.APR.2020 04:29:14

Lowest Channel / 3MHz / 16QAM



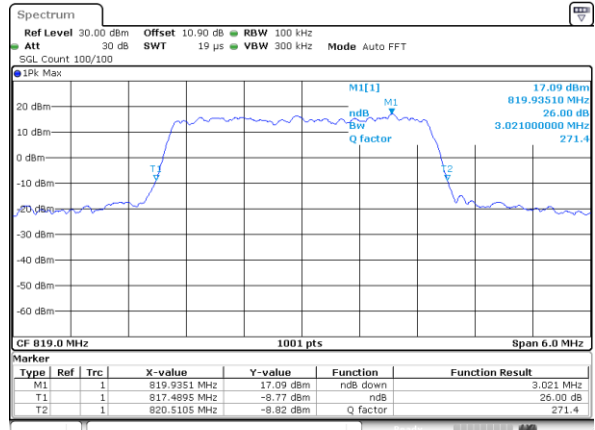
Date: 21.APR.2020 04:29:26

Middle Channel / 3MHz / QPSK



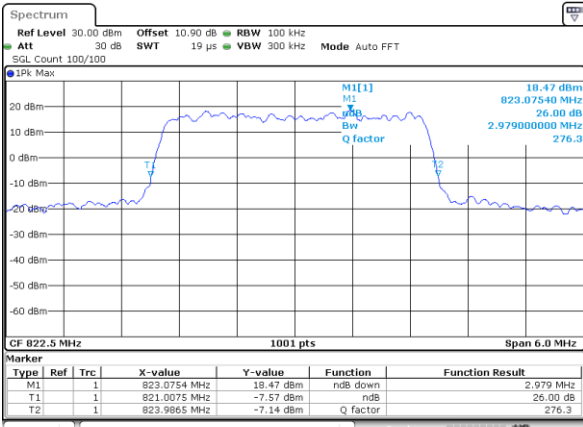
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Middle Channel / 3MHz / 16QAM



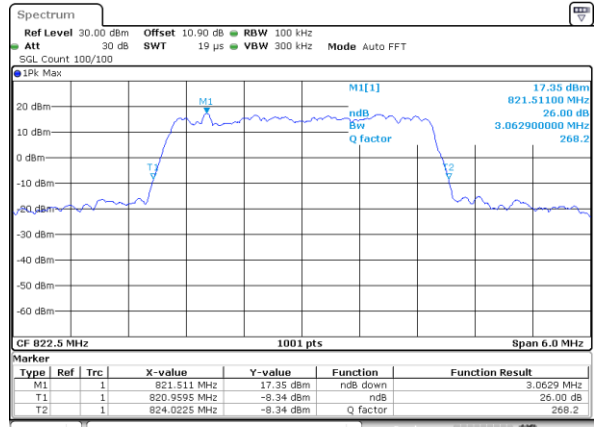
Date: 21.APR.2020 04:31:43

Highest Channel / 3MHz / QPSK



Date: 21.APR.2020 04:33:47

Highest Channel / 3MHz / 16QAM

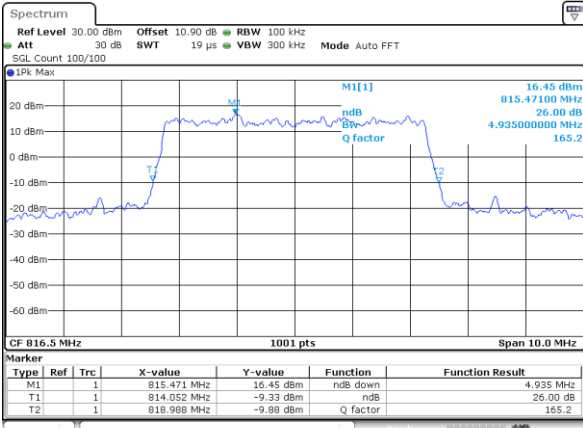


Date: 21.APR.2020 04:33:59



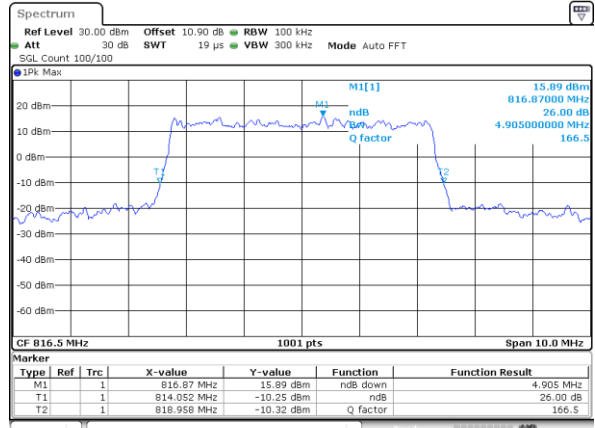
LTE Band 26

Lowest Channel / 5MHz / QPSK



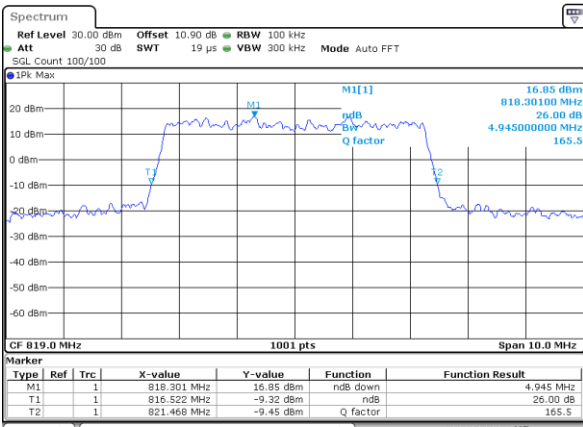
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Lowest Channel / 5MHz / 16QAM



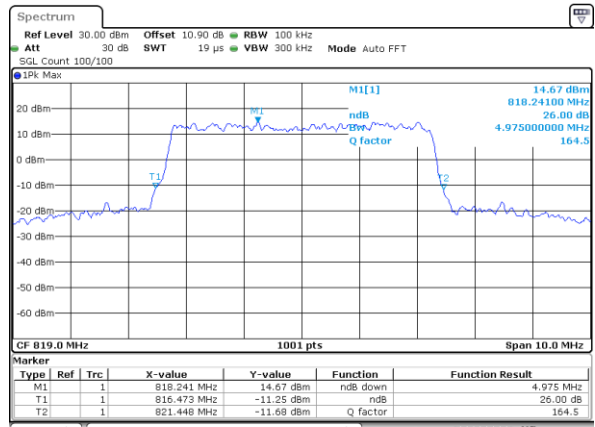
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Middle Channel / 5MHz / QPSK



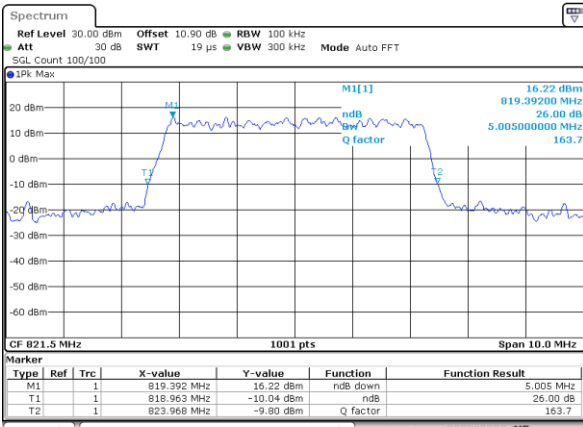
Date: 21.APR.2020 04:38:21

Middle Channel / 5MHz / 16QAM



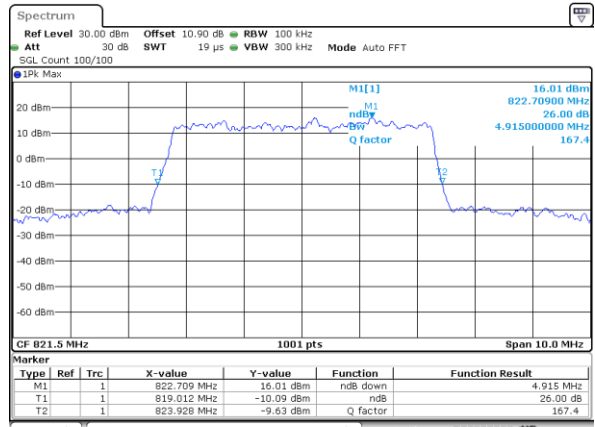
Date: 21.APR.2020 04:38:33

Highest Channel / 5MHz / QPSK



Date: 21.APR.2020 04:40:38

Highest Channel / 5MHz / 16QAM

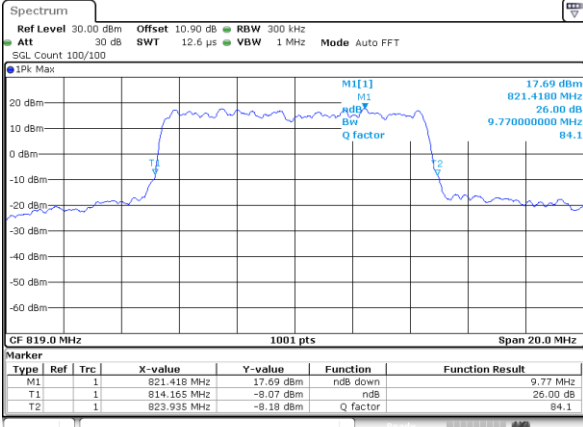


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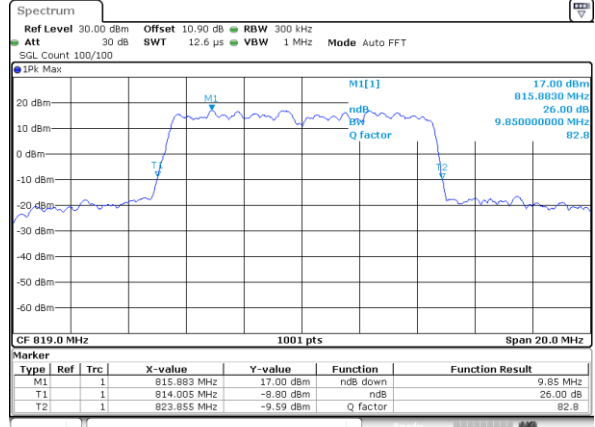
LTE Band 26

Middle Channel / 10MHz / QPSK



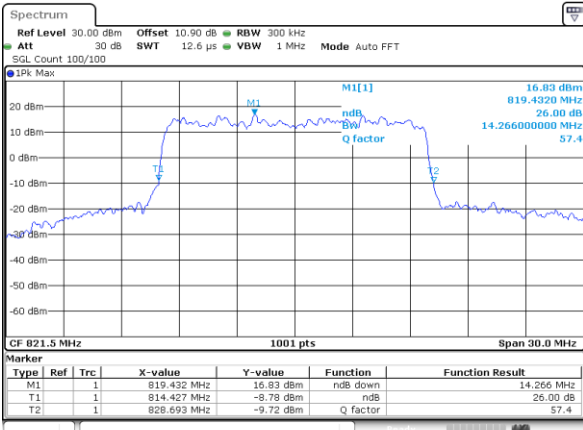
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Middle Channel / 10MHz / 16QAM



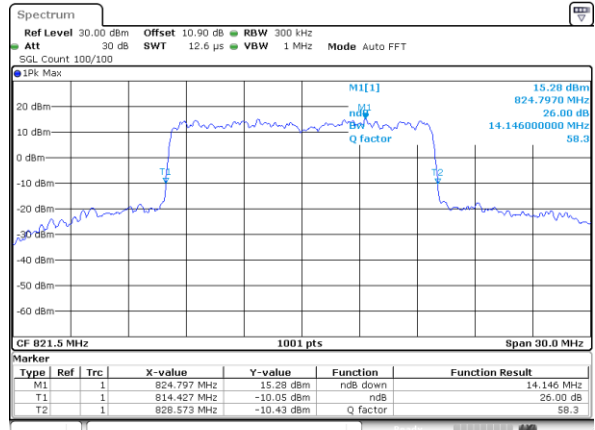
Date: 21.APR.2020 04:43:07

Lowest Channel / 15MHz / QPSK



Date: 21.APR.2020 04:45:12

Lowest Channel / 15MHz / 16QAM

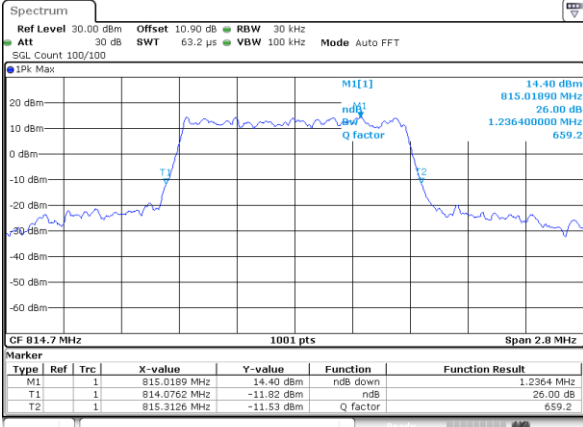


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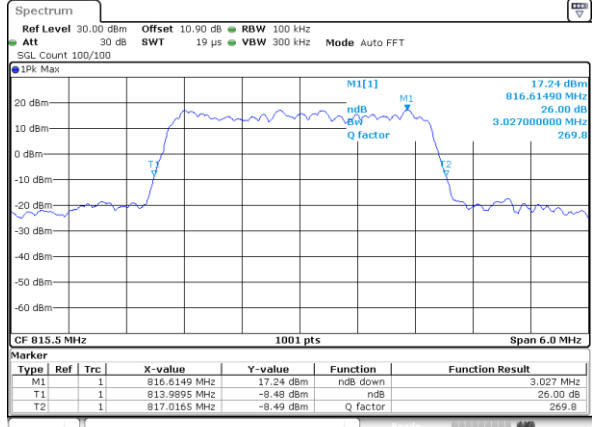
LTE Band 26

Lowest Channel / 1.4MHz / 64QAM



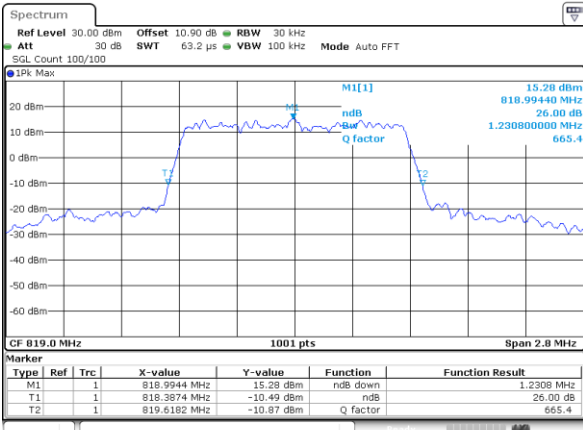
Date: 20.APR.2020 09:17:40

Lowest Channel / 3MHz / 64QAM



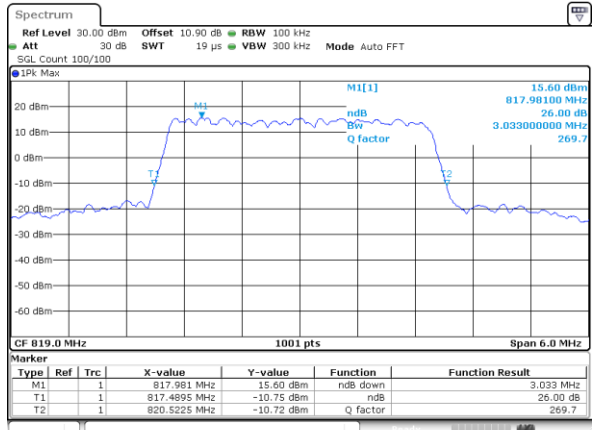
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Middle Channel / 1.4MHz / 64QAM



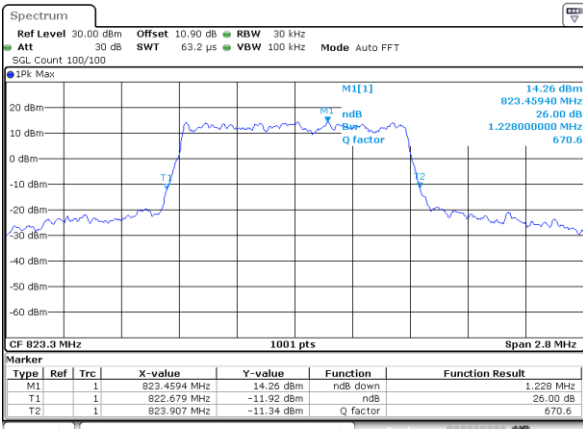
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Middle Channel / 3MHz / 64QAM



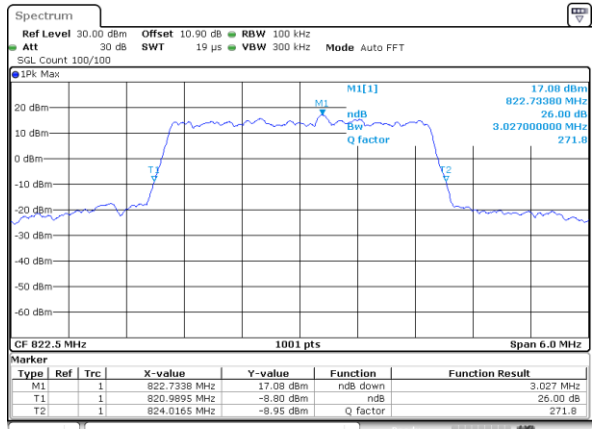
Date: 21.APR.2020 04:19:32

Highest Channel / 1.4MHz / 64QAM



Date: 20.APR.2020 09:19:58

Highest Channel / 3MHz / 64QAM

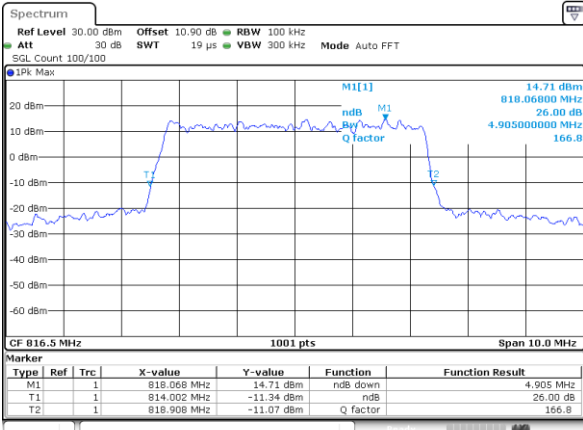


Date: 21.APR.2020 04:20:40

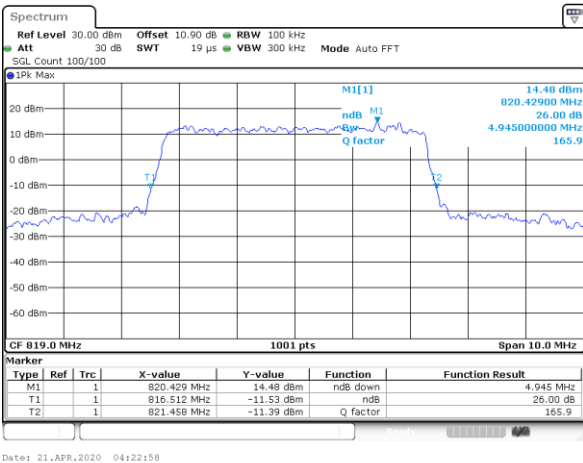


LTE Band 26

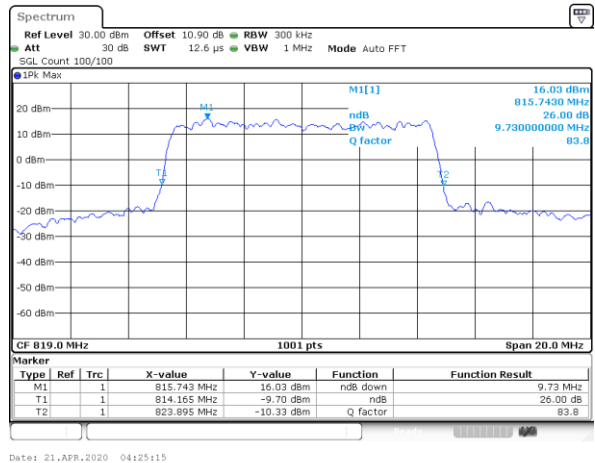
Lowest Channel / 5MHz / 64QAM



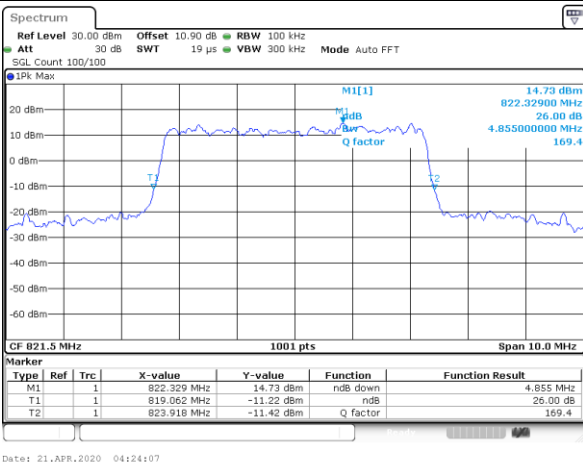
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



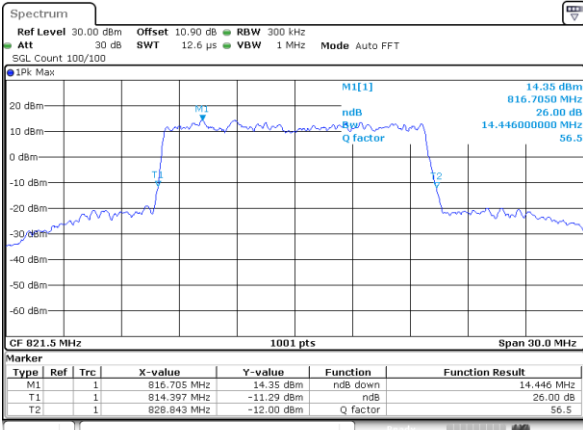
Highest Channel / 5MHz / 64QAM





LTE Band 26

Lowest Channel / 15MHz / 64QAM



Date: 21_APR_2020 04:26:25



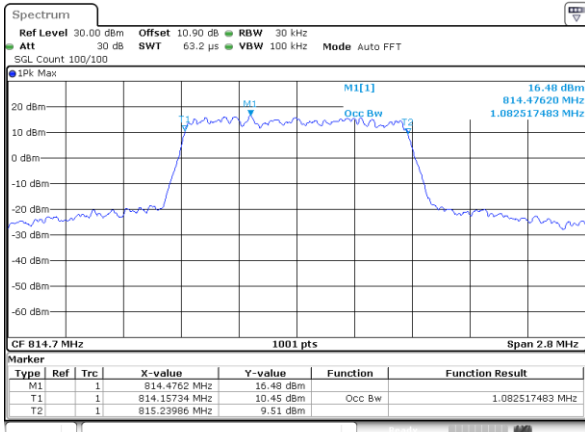
Occupied Bandwidth

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	1.08	1.09	2.72	2.72	4.49	4.50	-	-	13.37	13.52	-	-
Middle CH	1.09	1.08	2.72	2.73	4.53	4.52	9.03	9.03	-	-	-	-
Highest CH	1.10	1.09	2.73	2.72	4.51	4.49	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.50	-	-	-	13.40	-	-	-
Middle CH	1.10	-	2.73	-	4.49	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.73	-	4.50	-	-	-	-	-	-	-



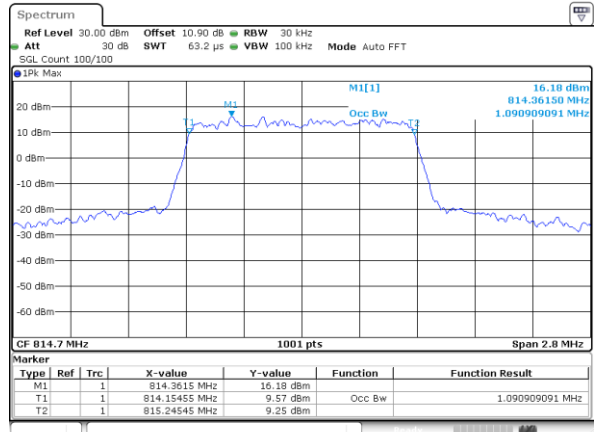
LTE Band 26

Lowest Channel / 1.4MHz / QPSK



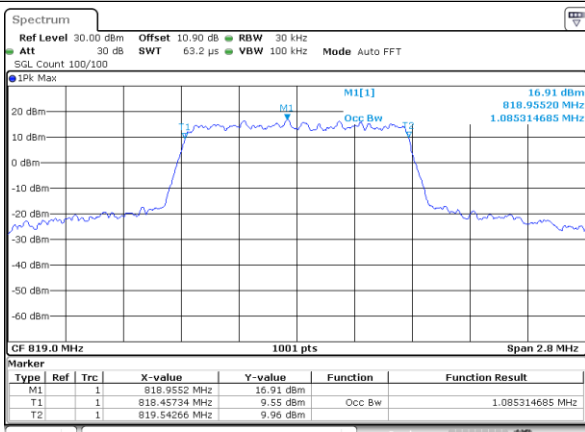
Date: 20_APR_2020 08:20:55

Lowest Channel / 1.4MHz / 16QAM



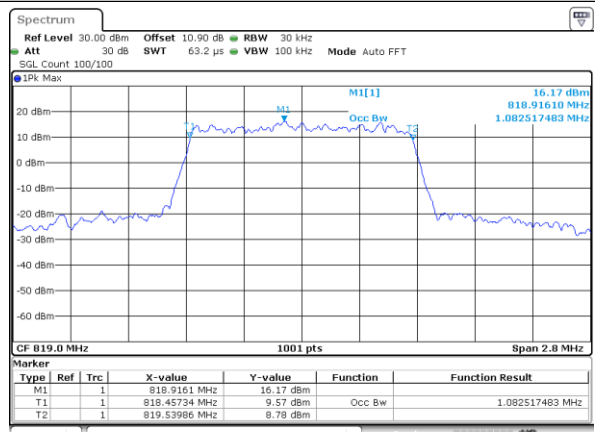
Date: 20_APR_2020 08:21:08

Middle Channel / 1.4MHz / QPSK



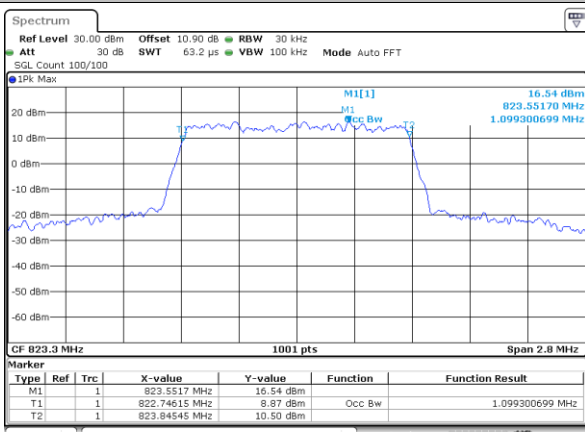
Date: 20_APR_2020 08:23:14

Middle Channel / 1.4MHz / 16QAM



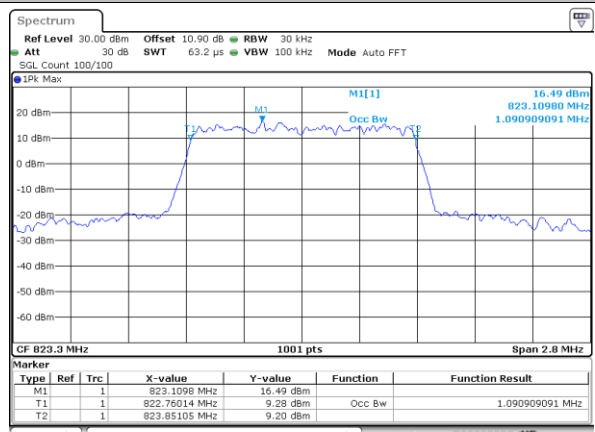
Date: 20_APR_2020 08:23:26

Highest Channel / 1.4MHz / QPSK



Date: 20_APR_2020 08:25:32

Highest Channel / 1.4MHz / 16QAM

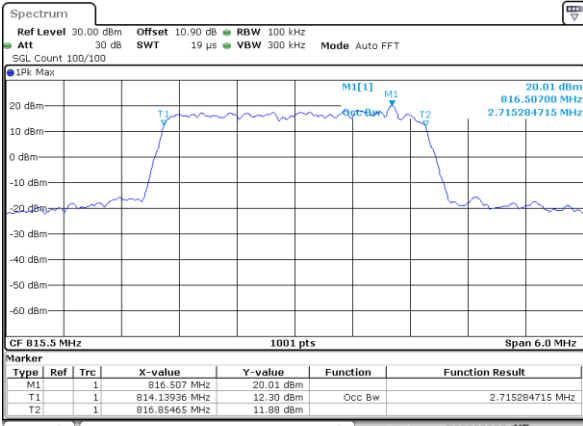


Date: 20_APR_2020 08:25:45



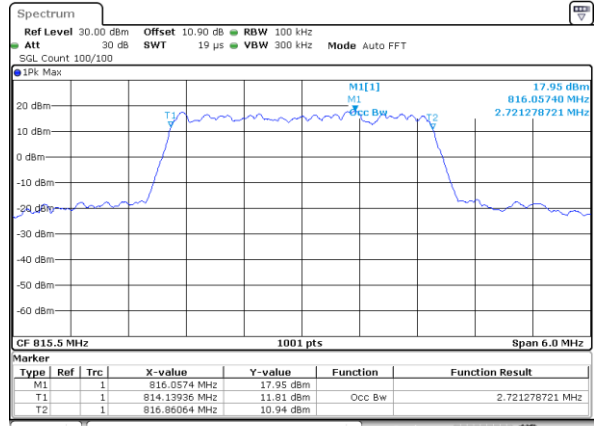
LTE Band 26

Lowest Channel / 3MHz / QPSK



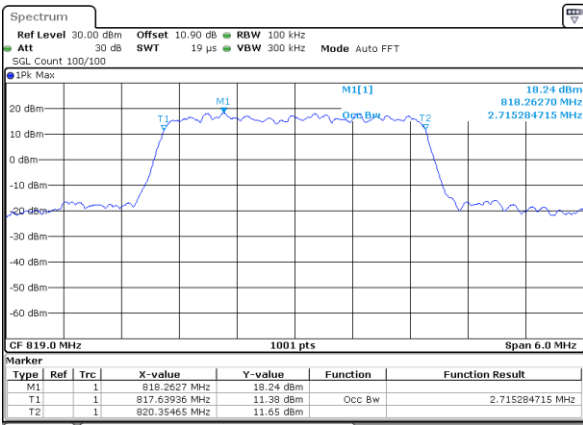
Date: 21.APR.2020 04:28:50

Lowest Channel / 3MHz / 16QAM



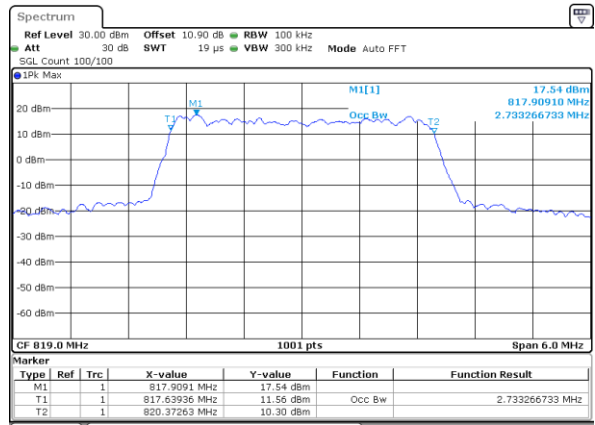
Date: 21.APR.2020 04:29:02

Middle Channel / 3MHz / QPSK



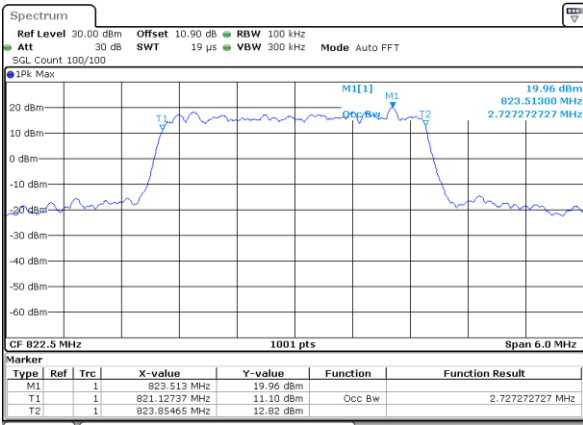
Date: 21.APR.2020 04:31:06

Middle Channel / 3MHz / 16QAM



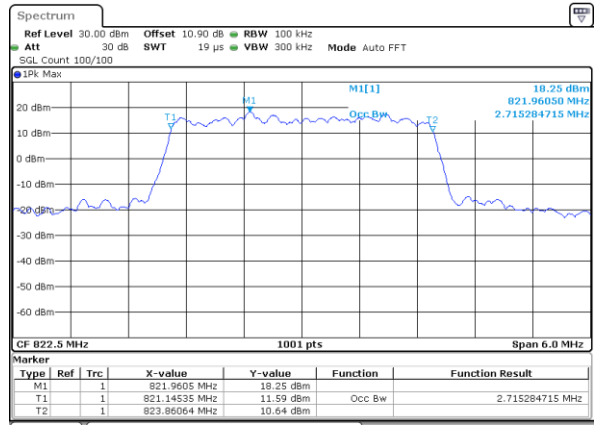
Date: 21.APR.2020 04:31:18

Highest Channel / 3MHz / QPSK



Date: 21.APR.2020 04:33:23

Highest Channel / 3MHz / 16QAM

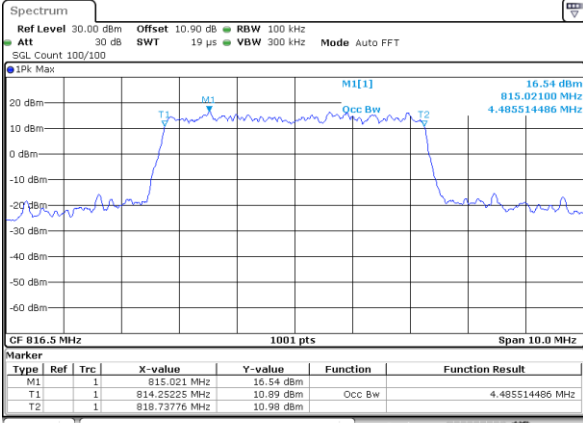


Date: 21.APR.2020 04:33:35



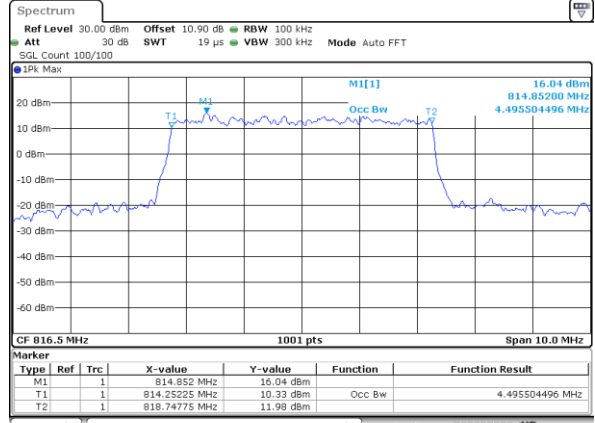
LTE Band 26

Lowest Channel / 5MHz / QPSK



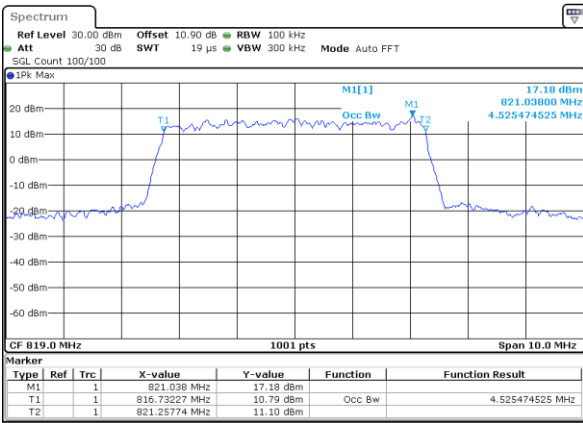
Date: 21.APR.2020 04:35:40

Lowest Channel / 5MHz / 16QAM



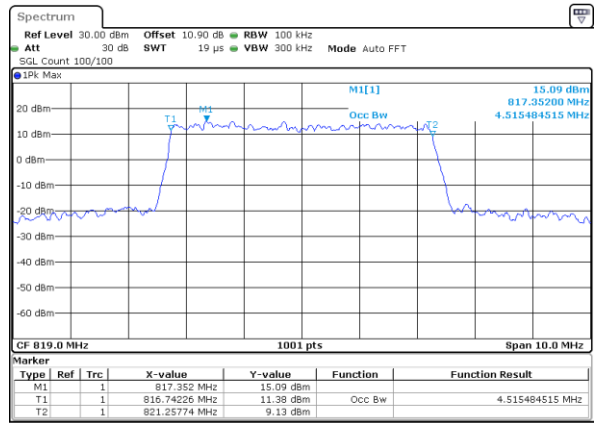
Date: 21.APR.2020 04:35:52

Middle Channel / 5MHz / QPSK



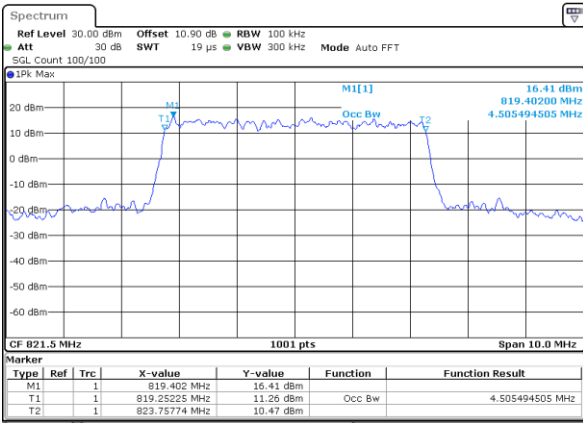
Date: 21.APR.2020 04:37:57

Middle Channel / 5MHz / 16QAM



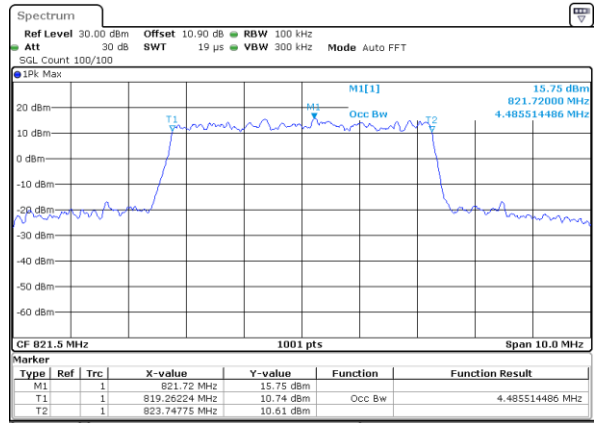
Date: 21.APR.2020 04:38:09

Highest Channel / 5MHz / QPSK



Date: 21.APR.2020 04:40:14

Highest Channel / 5MHz / 16QAM

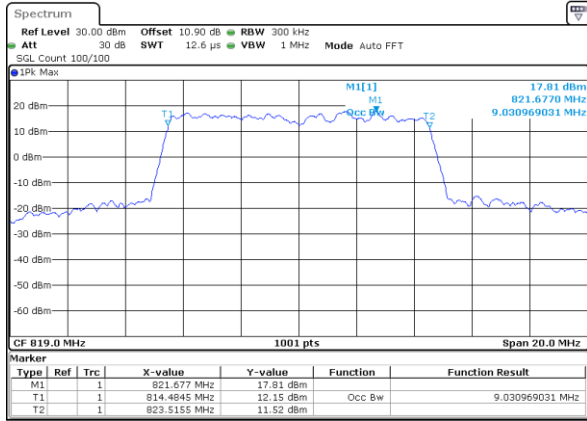


Date: 21.APR.2020 04:40:26



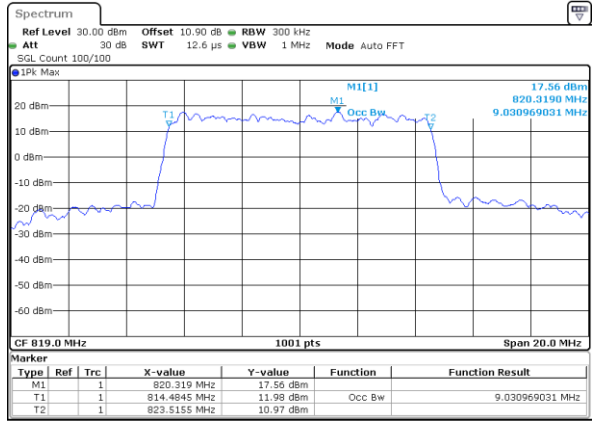
LTE Band 26

Middle Channel / 10MHz / QPSK



Date: 21.APR.2020 04:42:13

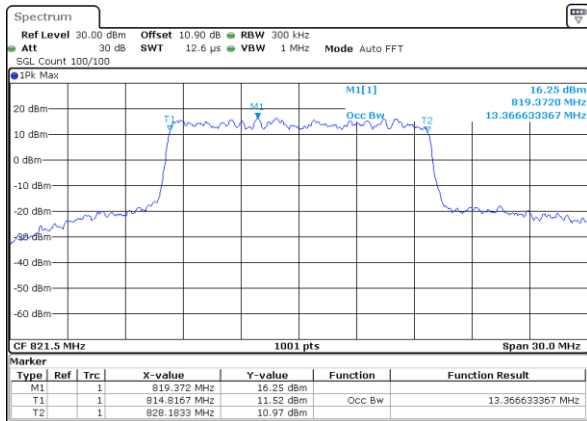
Middle Channel / 10MHz / 16QAM



Date: 21.APR.2020 04:42:43

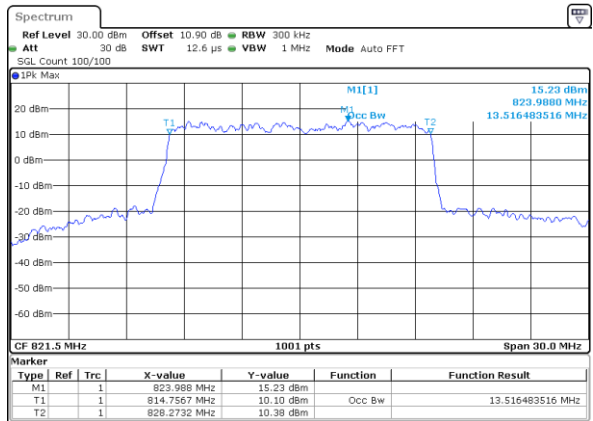
LTE Band 26

Lowest Channel / 15MHz / QPSK



Date: 21.APR.2020 04:44:48

Lowest Channel / 15MHz / 16QAM

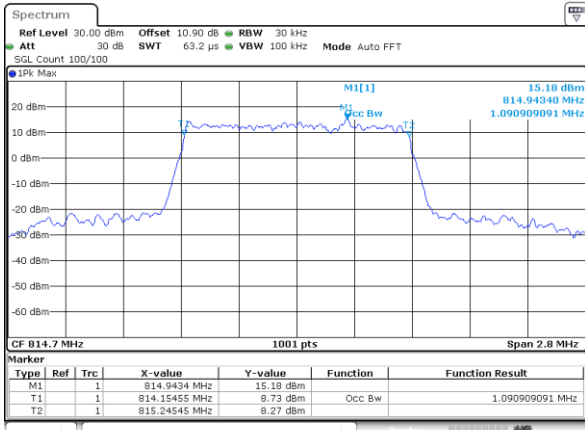


Date: 21.APR.2020 04:45:00



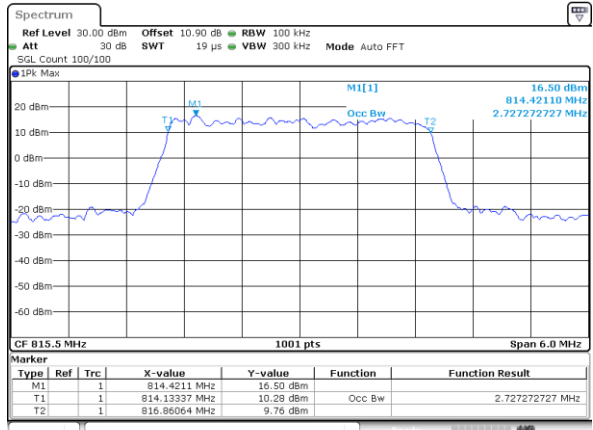
LTE Band 26

Lowest Channel / 1.4MHz / 64QAM



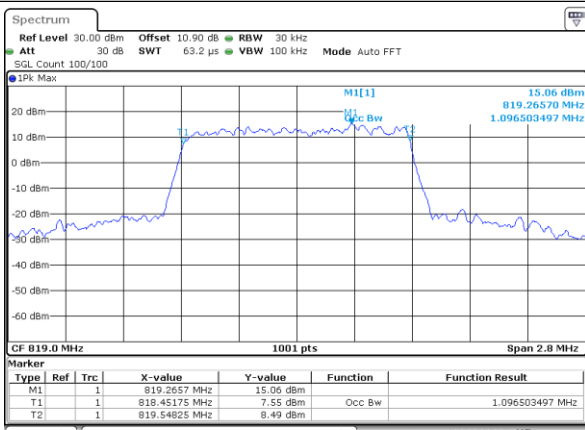
Date: 20.APR.2020 08:17:28

Lowest Channel / 3MHz / 64QAM



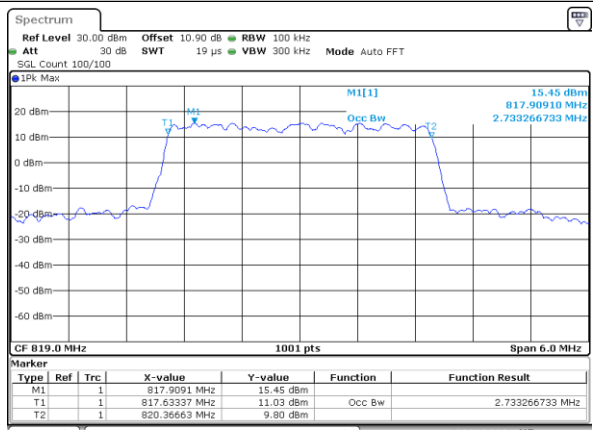
Date: 21.APR.2020 04:18:10

Middle Channel / 1.4MHz / 64QAM



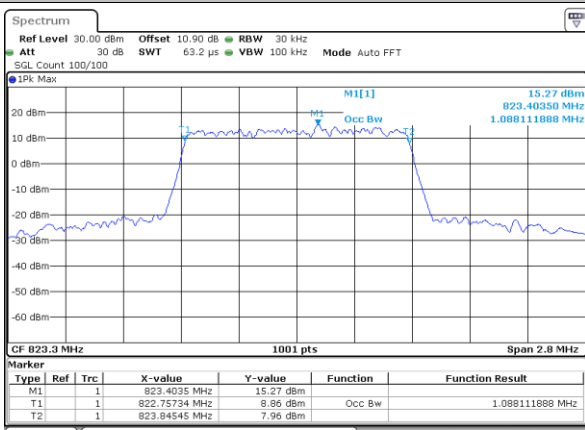
Date: 20.APR.2020 08:18:37

Middle Channel / 3MHz / 64QAM



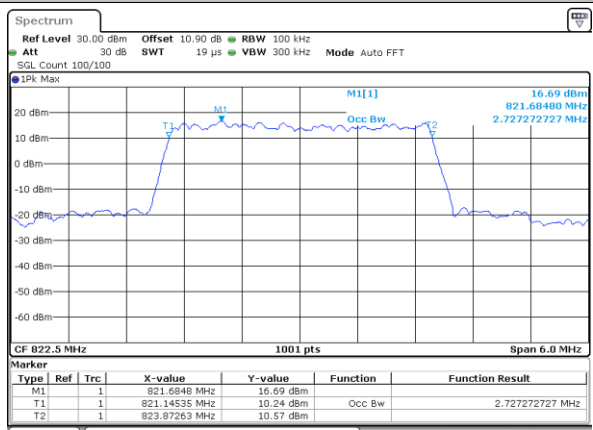
Date: 21.APR.2020 04:19:19

Highest Channel / 1.4MHz / 64QAM



Date: 20.APR.2020 08:19:46

Highest Channel / 3MHz / 64QAM

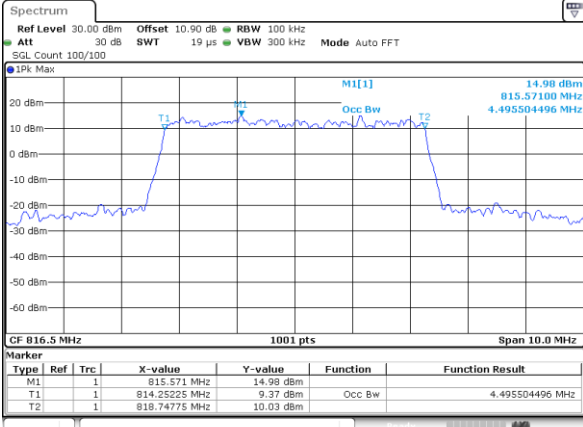


Date: 21.APR.2020 04:20:28



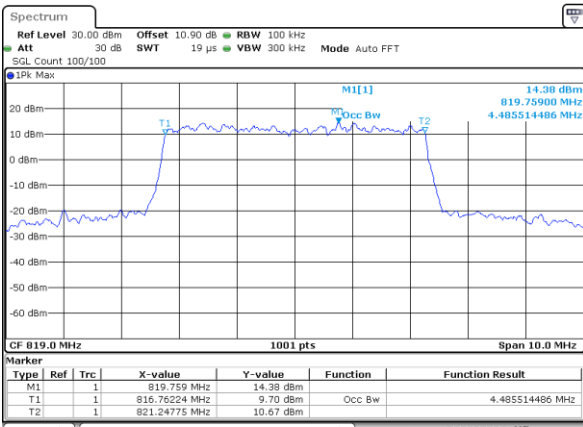
LTE Band 26

Lowest Channel / 5MHz / 64QAM



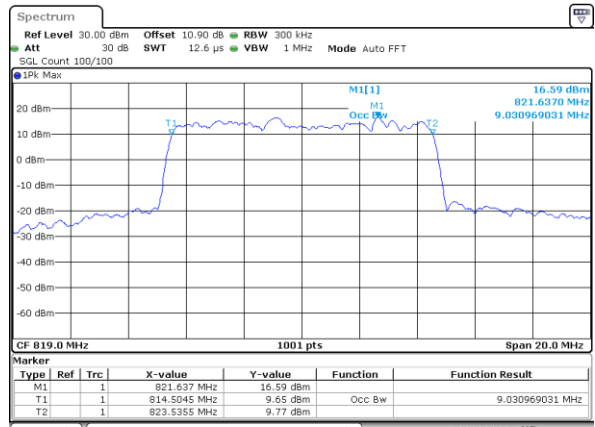
Date: 21.APR.2020 04:21:30

Middle Channel / 5MHz / 64QAM



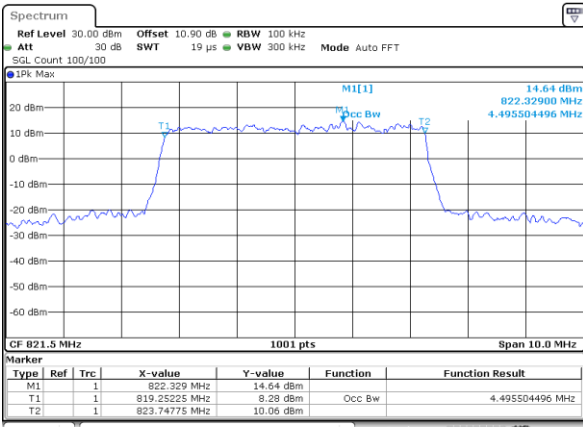
Date: 21.APR.2020 04:22:46

Middle Channel / 10MHz / 64QAM



Date: 21.APR.2020 04:25:03

Highest Channel / 5MHz / 64QAM

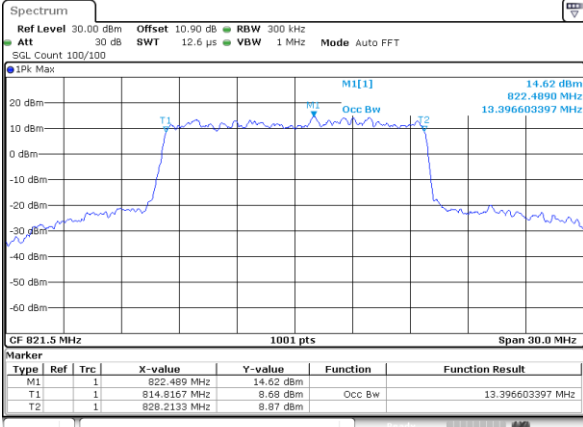


Date: 21.APR.2020 04:23:55



LTE Band 26

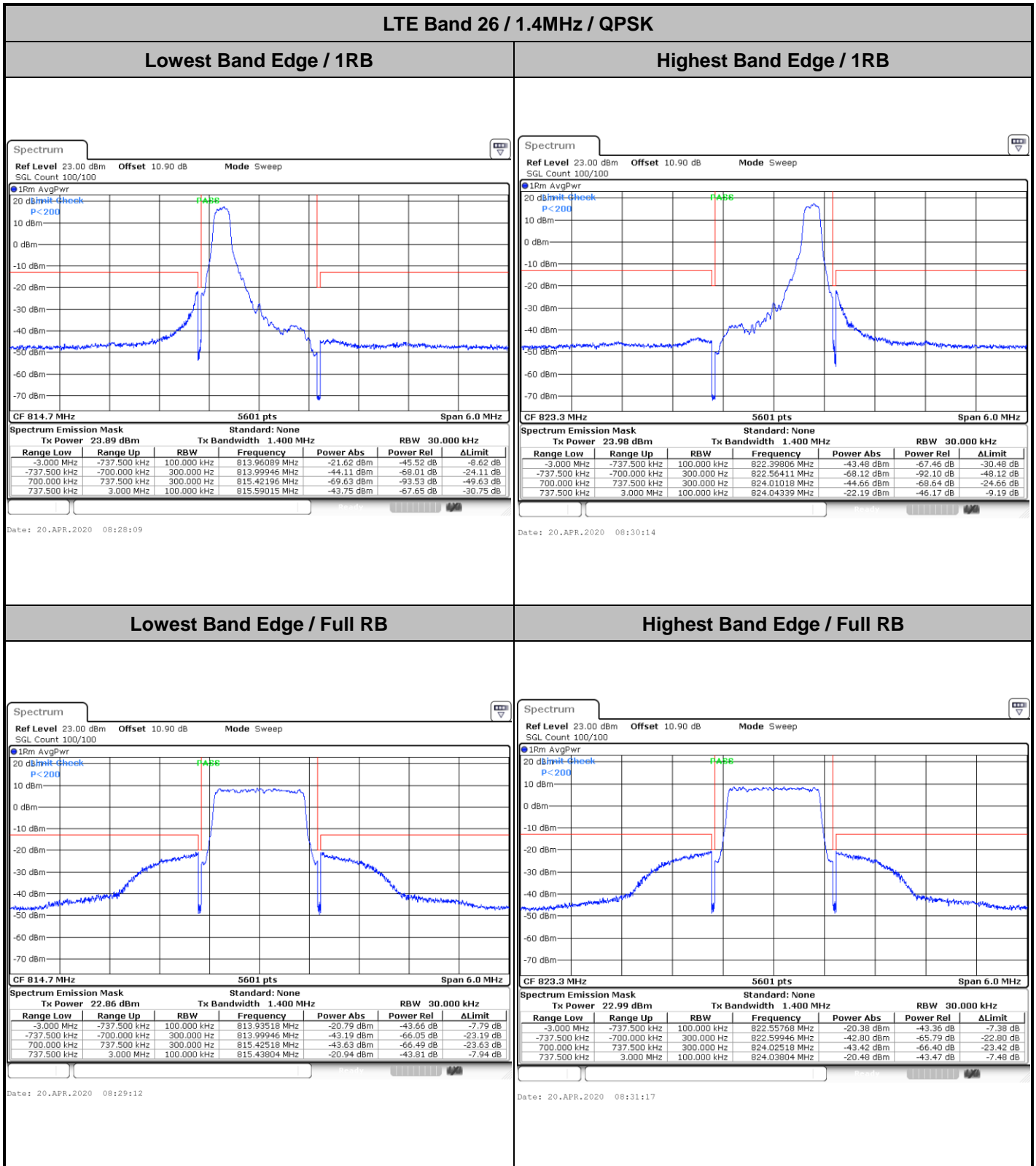
Lowest Channel / 15MHz / 64QAM



Date: 21.APR.2020 04:26:13



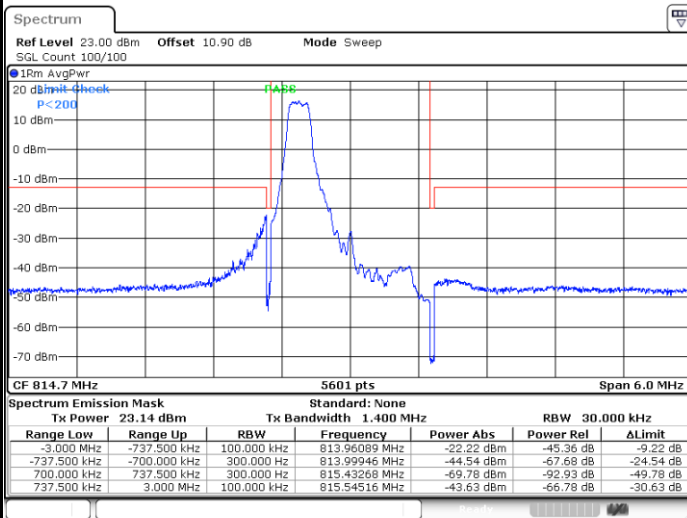
Emission masks – In-band emissions





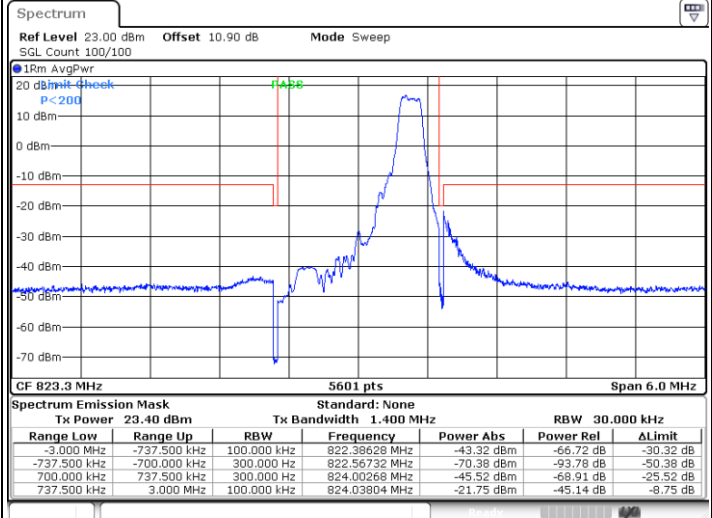
LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



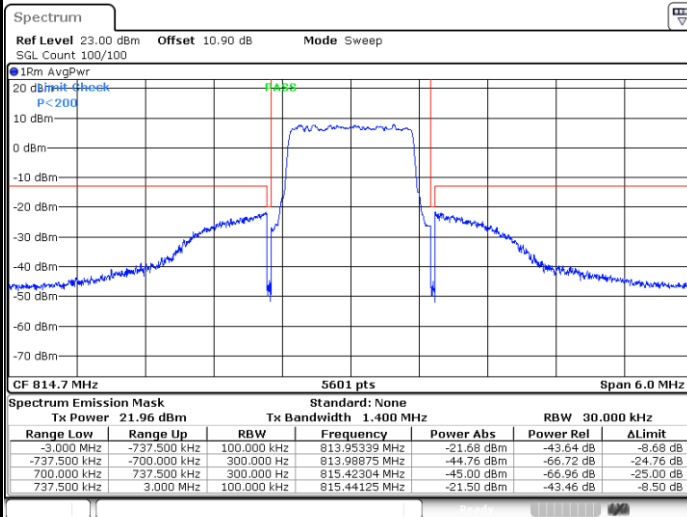
Date: 20.APR.2020 08:28:41

Highest Band Edge / 1 RB



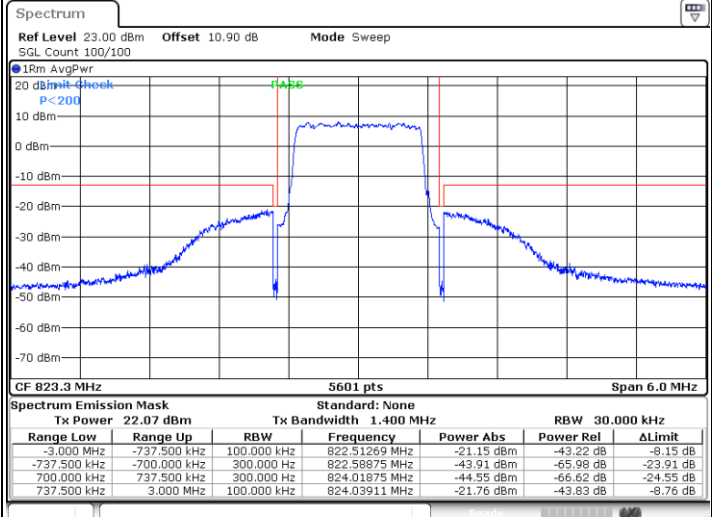
Date: 20.APR.2020 08:30:46

Lowest Band Edge / Full RB



Date: 20.APR.2020 08:29:43

Highest Band Edge / Full RB

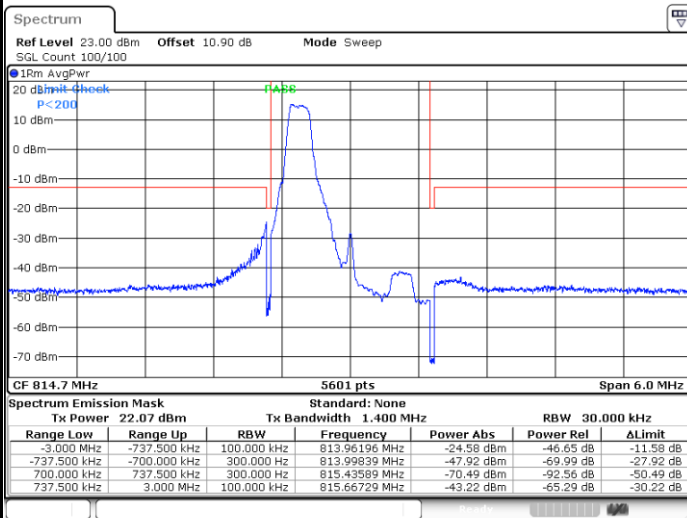


Date: 20.APR.2020 08:31:48



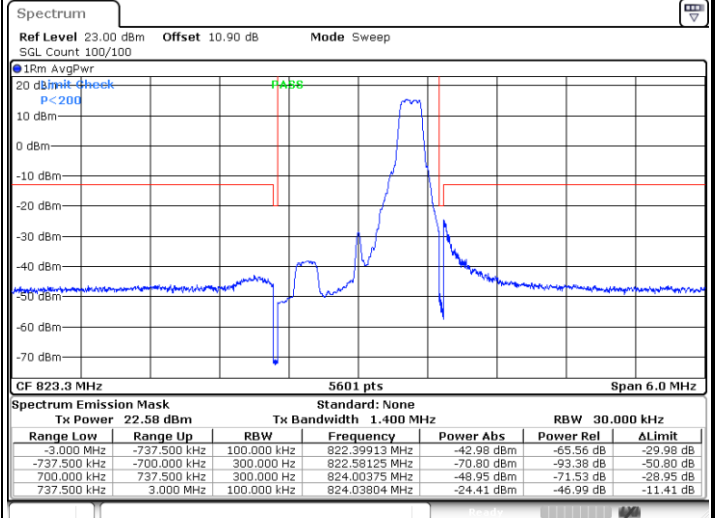
LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



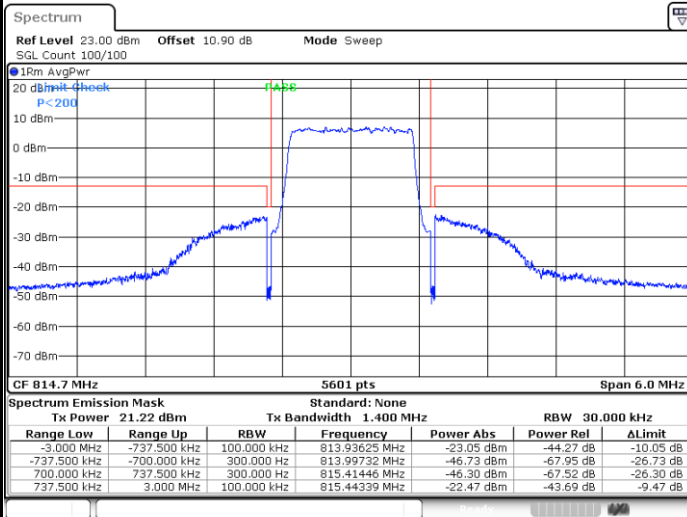
Date: 20.APR.2020 08:32:20

Highest Band Edge / 1 RB



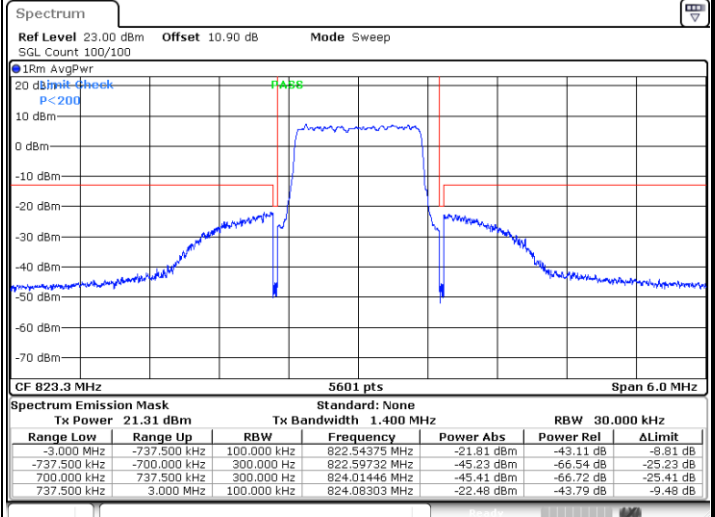
Date: 21.APR.2020 03:53:57

Lowest Band Edge / Full RB



Date: 21.APR.2020 03:54:45

Highest Band Edge / Full RB

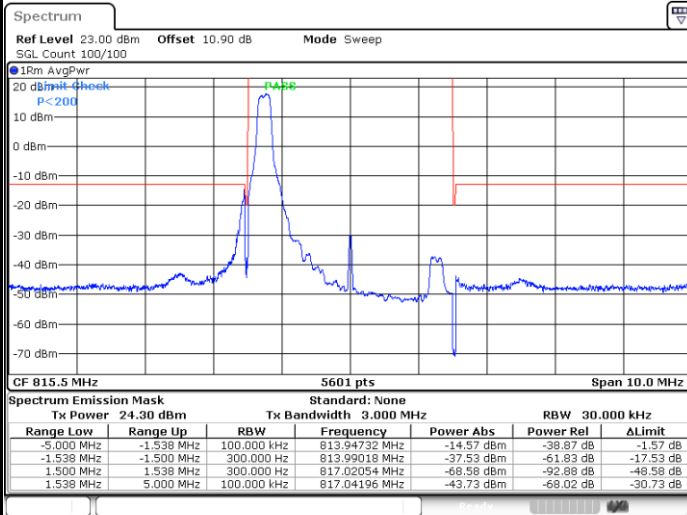


Date: 21.APR.2020 03:51:32



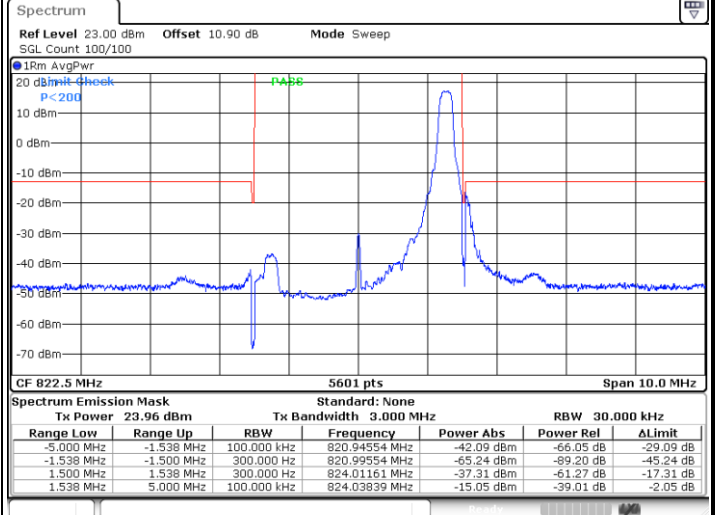
LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



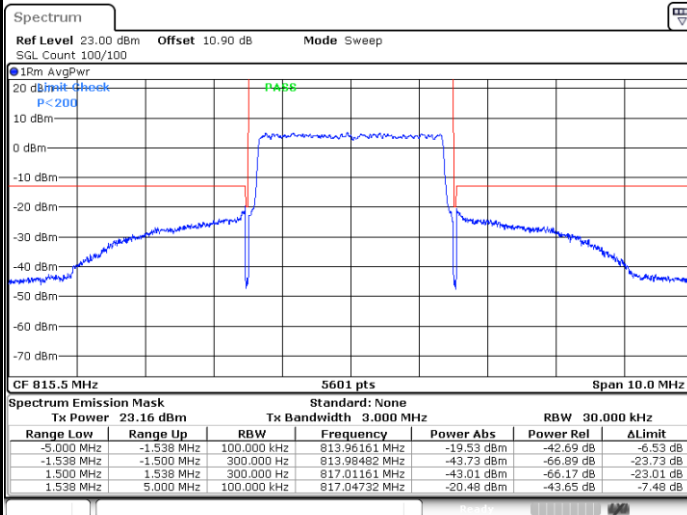
Date: 21.APR.2020 03:56:36

Highest Band Edge / 1 RB



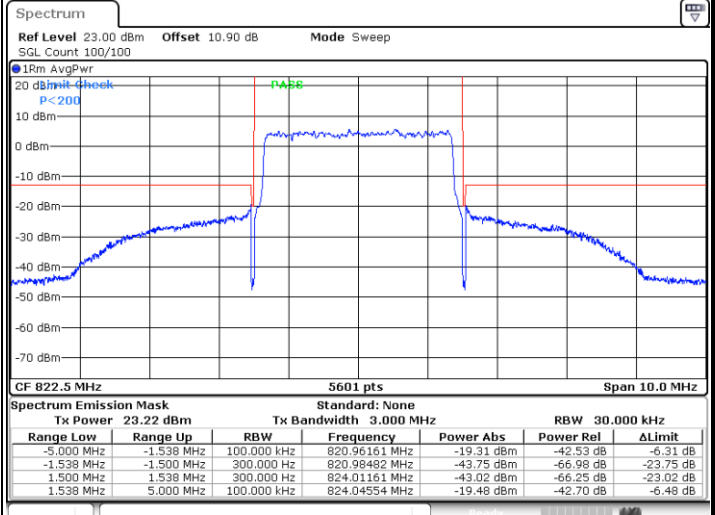
Date: 21.APR.2020 04:56:27

Lowest Band Edge / Full RB



Date: 21.APR.2020 03:57:40

Highest Band Edge / Full RB

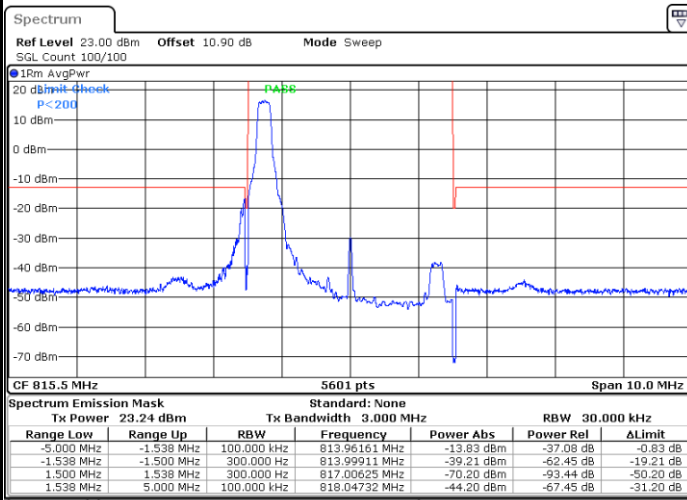


Date: 21.APR.2020 03:59:48



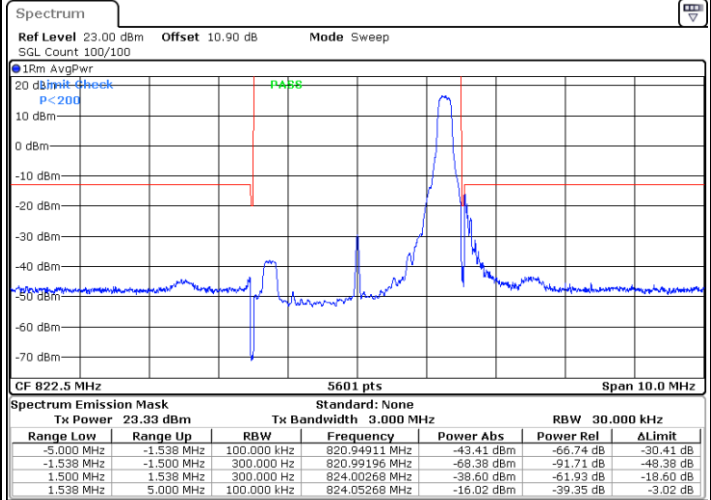
LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



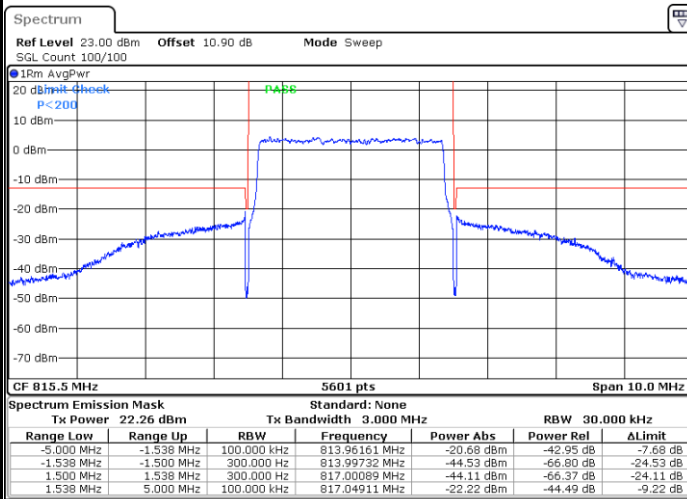
Date: 21.APR.2020 03:57:08

Highest Band Edge / 1 RB



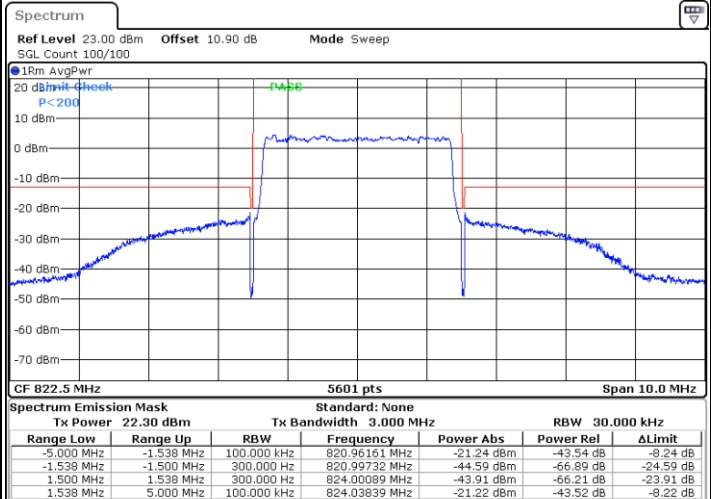
Date: 21.APR.2020 03:59:16

Lowest Band Edge / Full RB



Date: 21.APR.2020 03:58:12

Highest Band Edge / Full RB

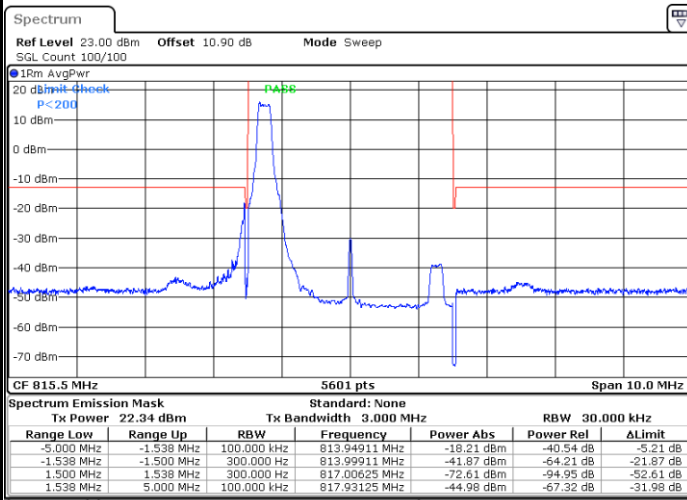


Date: 21.APR.2020 04:00:20



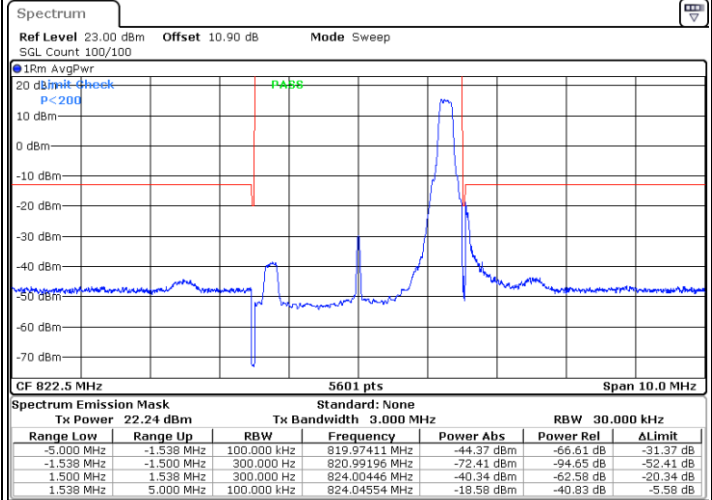
LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



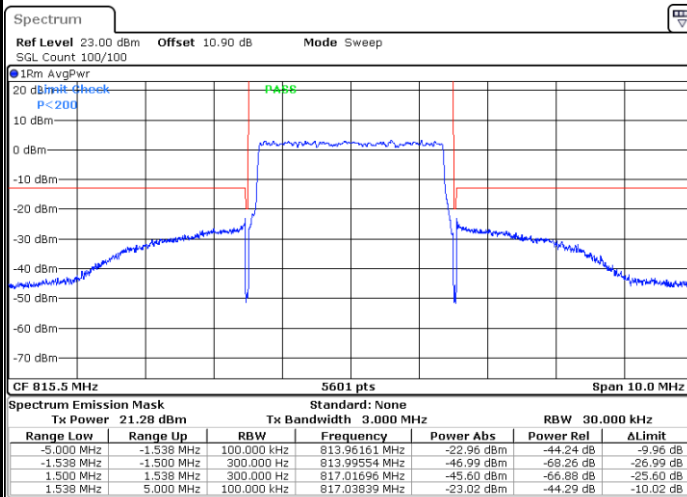
Date: 21.APR.2020 04:11:11

Highest Band Edge / 1 RB



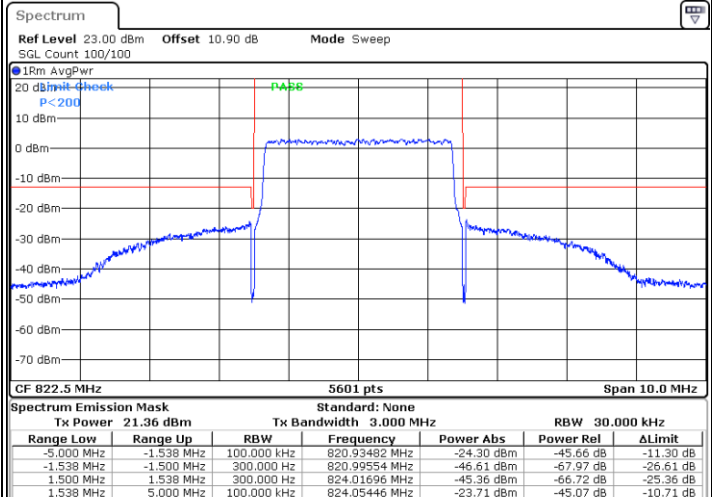
Date: 21.APR.2020 04:12:16

Lowest Band Edge / Full RB



Date: 21.APR.2020 04:11:43

Highest Band Edge / Full RB

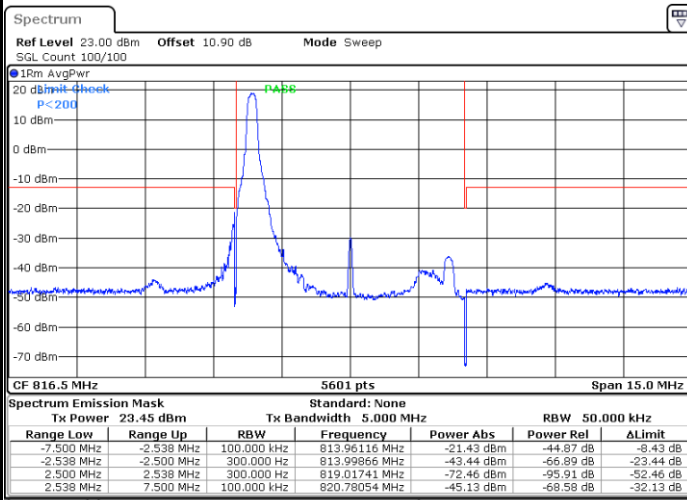


Date: 21.APR.2020 04:12:48



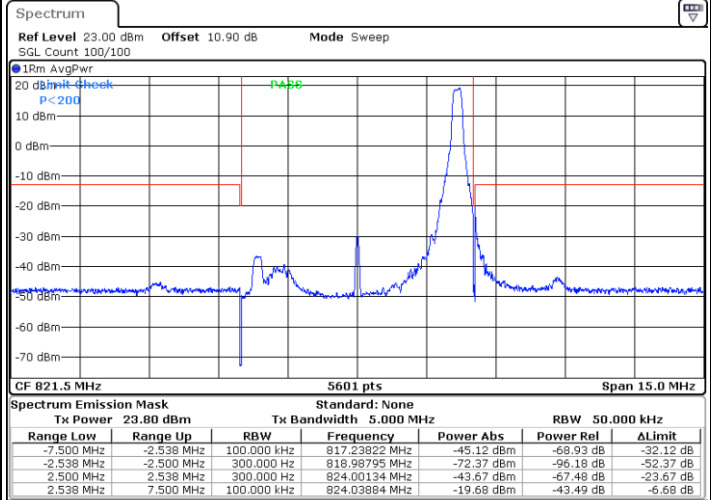
LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1 RB



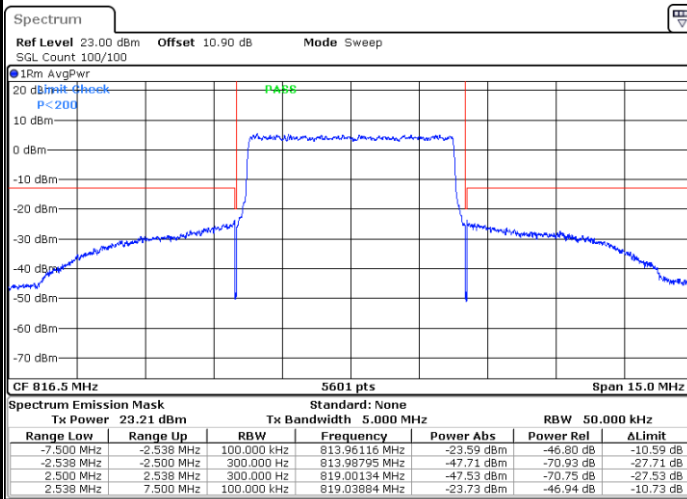
Date: 21.APR.2020 04:00:51

Highest Band Edge / 1 RB



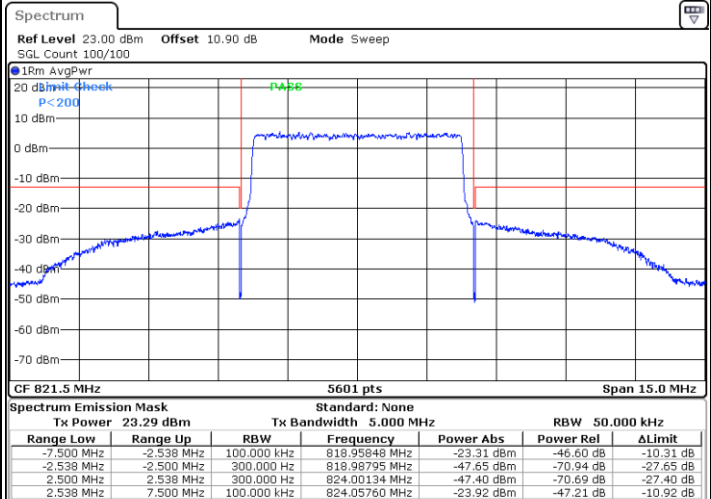
Date: 21.APR.2020 04:02:55

Lowest Band Edge / Full RB



Date: 21.APR.2020 04:01:53

Highest Band Edge / Full RB

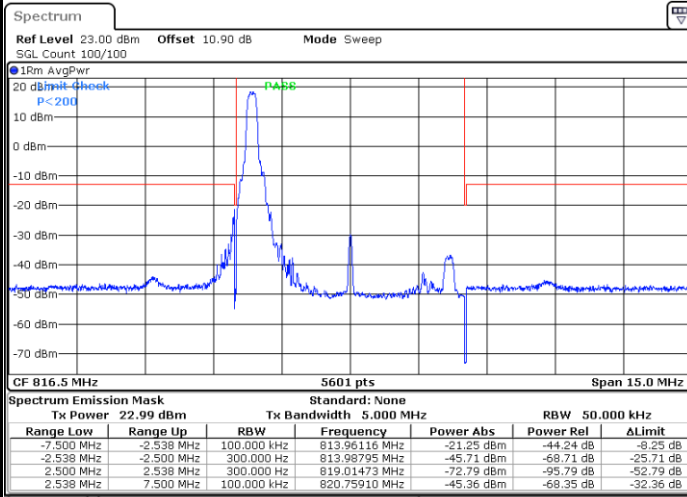


Date: 21.APR.2020 04:03:57



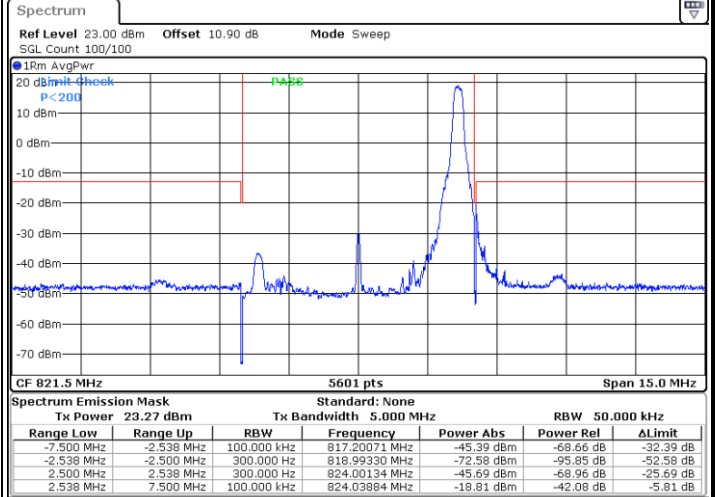
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1RB



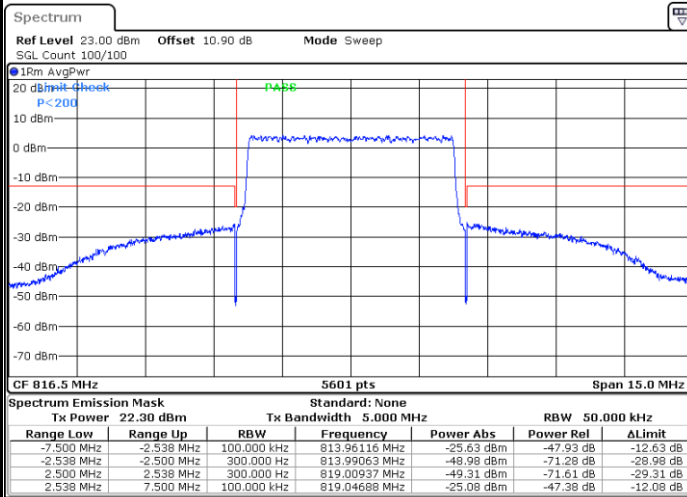
Date: 21.APR.2020 04:01:22

Highest Band Edge / 1 RB



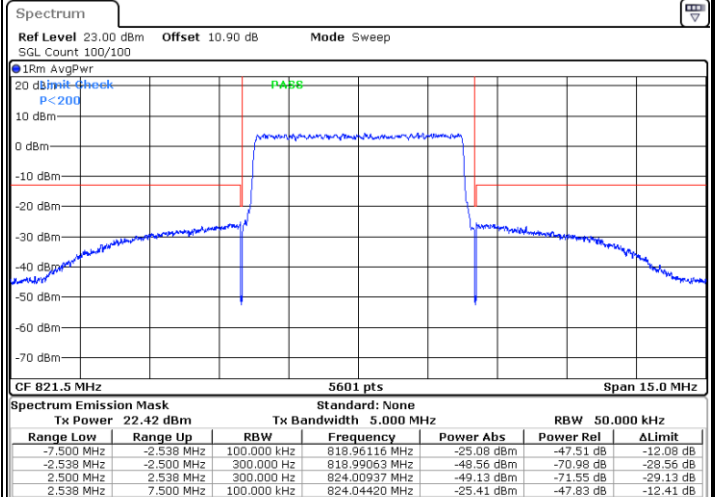
Date: 21.APR.2020 04:03:26

Lowest Band Edge / Full RB



Date: 21.APR.2020 04:02:24

Highest Band Edge / Full RB



Date: 21.APR.2020 04:04:27