

FCC Radio Test Report

FCC ID: 2AUYFRMX3286

This report concerns: Original Grant

Project No. : 2110C043A
Equipment : Mobile Phone
Brand Name : realme
Test Model : RMX3286
Series Model : N/A
Applicant : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer : Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address : No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Date of Receipt : Oct. 25, 2021
Date of Test : Oct. 26, 2021 ~ Nov. 10, 2021
Issued Date : Dec. 02, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG20211022140 for conducted, DG20211022142 for radiated.
Standard(s) : 47 CFR FCC Part 22 Subpart H
47 CFR FCC Part 2
ANSI/TIA/EIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Gabriel Zhu

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TESTING CERT #5123.02

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 02, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 22 Subpart H & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 22.913(a)(5)	Effective Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 22.917(a)	Conducted Spurious Emissions	PASS	-----
2.1053 22.917(a)	Radiated Spurious Emissions	PASS	-----
22.917(a)	Band Edge Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 22.355	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong, People's Republic of China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))
The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPR	9KHz ~ 30MHz	-	2.36
		30MHz ~ 200MHz	V	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96
		1GHz ~ 6GHz	-	3.80
		6GHz ~ 18GHz	-	4.82

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & ERP	22.4°C	48%	DC 3.87V	Rick Liao
Occupied Bandwidth	22.4°C	48%	DC 3.87V	Rick Liao
Conducted Spurious Emissions	22.4°C	48%	DC 3.87V	Rick Liao
Radiated Spurious Emissions	26°C	52%	AC 120V/60Hz	Kwok Guo
Band Edge	22.4°C	48%	DC 3.87V	Rick Liao
Peak To Average Ratio	22.4°C	48%	DC 3.87V	Rick Liao
Frequency Stability	Normal & Extreme	48%	Normal & Extreme	Rick Liao

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone				
Brand Name	realme				
Test Model	RMX3286				
Series Model	N/A				
Model Difference(s)	N/A				
Hardware Version	11				
Software Version	realme UI V2.0				
Power Source	1# DC voltage supplied from AC adapter. (1) Model: VCB3HDUH (2) Model: VCB3HAUH 2# Supplied from battery. Model: BLP875 3# Supplied from USB port. Model: DL143				
Power Rating	1# I/P: 100-240V~ 50/60Hz 1.2A O/P: 5V  2A or 5-11V  3A Max 2# DC 3.87V, 4880mAh 3# DC 5V				
IEMI No.	Radiated	860074050019375			
	Conducted	860074050019359			
Modulation Type	GSM		GMSK		
	EDGE/GPRS		GMSK, 8PSK		
	WCDMA/HSDPA/HSUPA		UL: QPSK,16QAM DL: QPSK,16QAM,64QAM		
	LTE		UL: QPSK,16QAM,64QAM DL: QPSK,16QAM,64QAM,256QAM		
Max. ERP	GSM 850 / GPRS 850		GMSK	31.01	dBm
	EDGE 850		8PSK	25.93	dBm
	WCDMA Band V		QPSK	21.96	dBm
	HSDPA Band V		QPSK	21.57	dBm
	HSUPA Band V		QPSK	20.56	dBm
	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)	64QAM (dBm)
	Band 5	1.4	21.69	20.94	20.14
		3	21.55	20.90	20.00
		5	21.86	21.30	20.10
		10	21.81	21.18	20.13
	Band 26	1.4	21.64	20.93	20.13
		3	21.57	20.90	19.95
		5	21.83	21.27	20.10
		10	21.79	21.13	20.11
		15	21.79	21.20	20.43

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

GSM 850				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	128	824.2	137	869.2
Mid Range	190	836.6	199	881.6
High Range	251	848.8	260	893.8

WCDMA Band V				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	4132	826.4	4357	871.4
Mid Range	4182	836.4	4407	881.4
High Range	4233	846.6	4458	891.6

LTE Band 5					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10	20450	829	2450	874
Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10	20600	844	2600	889

LTE Band 26					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	26797	824.7	8797	869.7
	3	26805	825.5	8805	870.5
	5	26815	826.5	8815	871.5
	10	26840	829	8840	874
	15	26865	831.5	8865	876.5
Mid Range	1.4/3/5/10/15	26915	836.5	8915	881.5
High Range	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
	5	27015	846.5	9015	891.5
	10	26990	844	8990	889
	15	26965	841.5	8965	886.5

3. Table for Filed Antenna:

Main Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	PIFA	N/A	0.5	GSM 850
N/A	N/A	PIFA	N/A	0.5	WCDMA Band V
N/A	N/A	PIFA	N/A	0.5	LTE Band 5
N/A	N/A	PIFA	N/A	0.5	LTE Band 26

Second Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	PIFA	N/A	0.5	GSM 850
N/A	N/A	PIFA	N/A	0.5	WCDMA Band V
N/A	N/A	PIFA	N/A	0.5	LTE Band 5
N/A	N/A	PIFA	N/A	0.5	LTE Band 26

Note: The antenna gain is provided by the manufacturer.

2.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

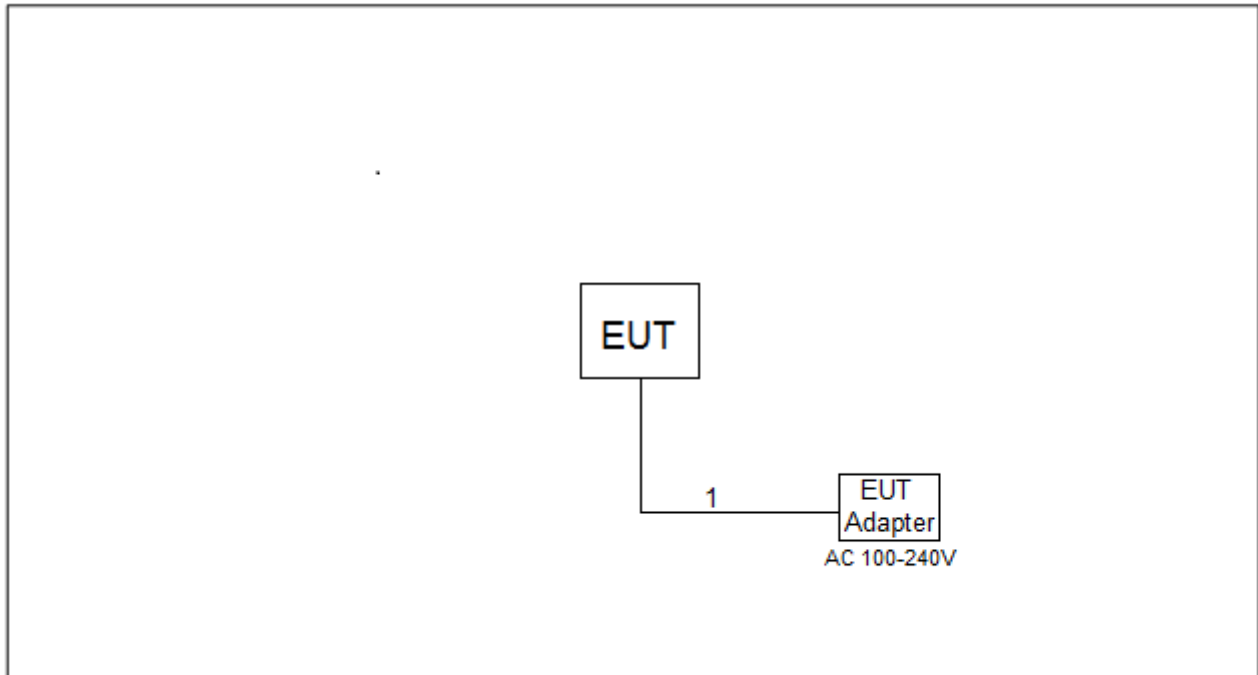
GSM MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & ERP	128 to 251	128, 190, 251	GSM, GPRS, EDGE
Occupied Bandwidth	128 to 251	128, 190, 251	GSM, EDGE
Conducted Spurious Emissions	128 to 251	190	GSM, EDGE
Radiated Spurious Emissions	128 to 251	190	GSM
Band Edge	128 to 251	128, 251	GSM, EDGE
Peak To Average Ratio	128 to 251	128, 190, 251	GSM, EDGE
Frequency Stability	128 to 251	190	GSM

WCDMA BAND V MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & ERP	4132 to 4233	4132, 4182, 4233	WCDMA, HSDPA, HSUPA
Occupied Bandwidth	4132 to 4233	4132, 4182, 4233	WCDMA
Conducted Spurious Emissions	4132 to 4233	4182	WCDMA
Radiated Spurious Emissions	4132 to 4233	4182	WCDMA
Band Edge	4132 to 4233	4132, 4233	WCDMA
Peak To Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA
Frequency Stability	4132 to 4233	4182	WCDMA

LTE BAND 5 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM,64QAM	1RB/3RB/6RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,64QAM	1RB/8RB/15RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,64QAM	1RB/12RB/25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,64QAM	1RB/25RB/50RB
Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM,64QAM	6RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,64QAM	15RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,64QAM	25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,64QAM	50RB
Conducted Spurious Emissions	20407 to 20643	20525	1.4MHz	QPSK	1RB
	20425 to 20625	20525	5MHz	QPSK	1RB
	20450 to 20600	20525	10MHz	QPSK	1RB
Radiated Spurious Emissions	20407 to 20643	20525	1.4MHz	QPSK	1RB
	20425 to 20625	20525	5MHz	QPSK	1RB
	20450 to 20600	20525	10MHz	QPSK	1RB
Band Edge	20407 to 20643	20407, 20643	1.4MHz	QPSK	1RB/6RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1RB/15RB
	20425 to 20625	20425, 20625	5MHz	QPSK	1RB/25RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1RB/50RB
Peak To Average Ratio	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM,64QAM	1RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,64QAM	1RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,64QAM	1RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,64QAM	1RB
Frequency Stability	20407 to 20643	20525	1.4MHz	QPSK	1RB
	20415 to 20635	20525	3MHz	QPSK	1RB
	20425 to 20625	20525	5MHz	QPSK	1RB
	20450 to 20600	20525	10MHz	QPSK	1RB

LTE BAND 26 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	1RB/3RB/6RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1RB/8RB/15RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1RB/12RB/25RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1RB/25RB/50RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1RB/36RB/75RB
Occupied Bandwidth	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	15RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	25RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	50RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	75RB
Conducted Spurious Emissions	26815 to 27015	226915	1.4MHz	QPSK	1RB
	26815 to 27015	226915	5MHz	QPSK	1RB
	26865 to 26965	226915	15MHz	QPSK	1RB
Radiated Spurious Emissions	26815 to 27015	226915	1.4MHz	QPSK	1RB
	26815 to 27015	226915	5MHz	QPSK	1RB
	26865 to 26965	226915	15MHz	QPSK	1RB
Band Edge	26797 to 27033	26797, 27033	1.4MHz	QPSK	1RB
					6RB
	26805 to 27025	26805, 27025	3MHz	QPSK	1RB
					15RB
	26815 to 27015	26815, 27015	5MHz	QPSK	1RB
					25RB
	26840 to 26990	26840, 26990	10MHz	QPSK	1RB
					50RB
	26865 to 26965	26865, 26965	15MHz	QPSK	1RB
					75RB
Peak To Average Ratio	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	1RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1RB
Frequency Stability	26797 to 27033	226915	1.4MHz	QPSK	1RB
	26805 to 27025	226915	3MHz	QPSK	1RB
	26815 to 27015	226915	5MHz	QPSK	1RB
	26840 to 26990	226915	10MHz	QPSK	1RB
	26865 to 26965	226915	15MHz	QPSK	1RB

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOFSYSTEMTESTED



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1m

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP:

EIRP = Output Power + Antenan gain

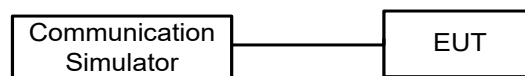
ERP = EIPR - 2.15dBi

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX A.

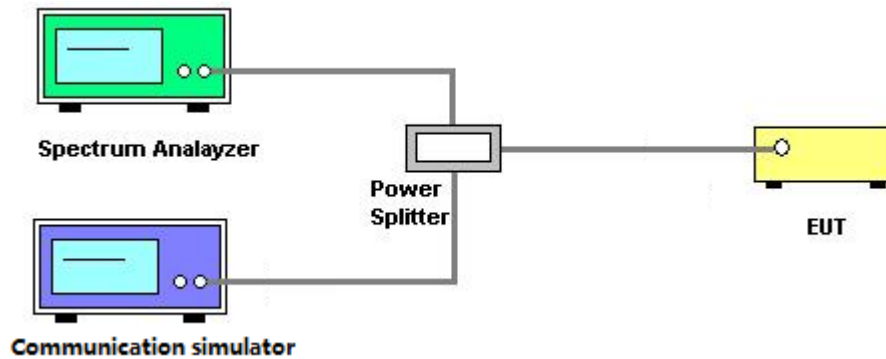
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW = (1\% \sim 5\%) * EBW$
 $VBW \geq 3 * RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX B.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

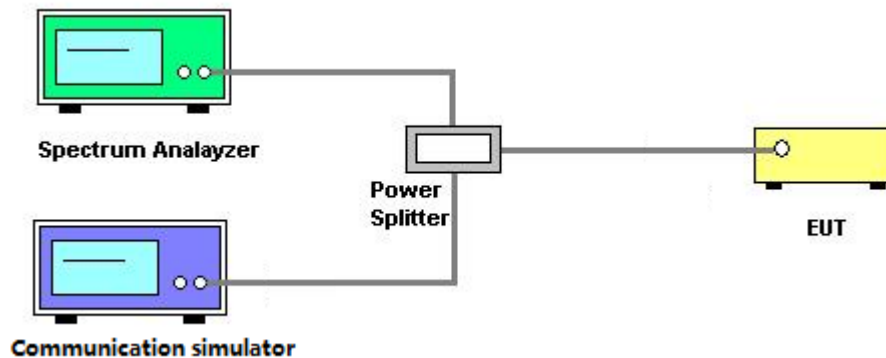
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX C.

3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

3.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

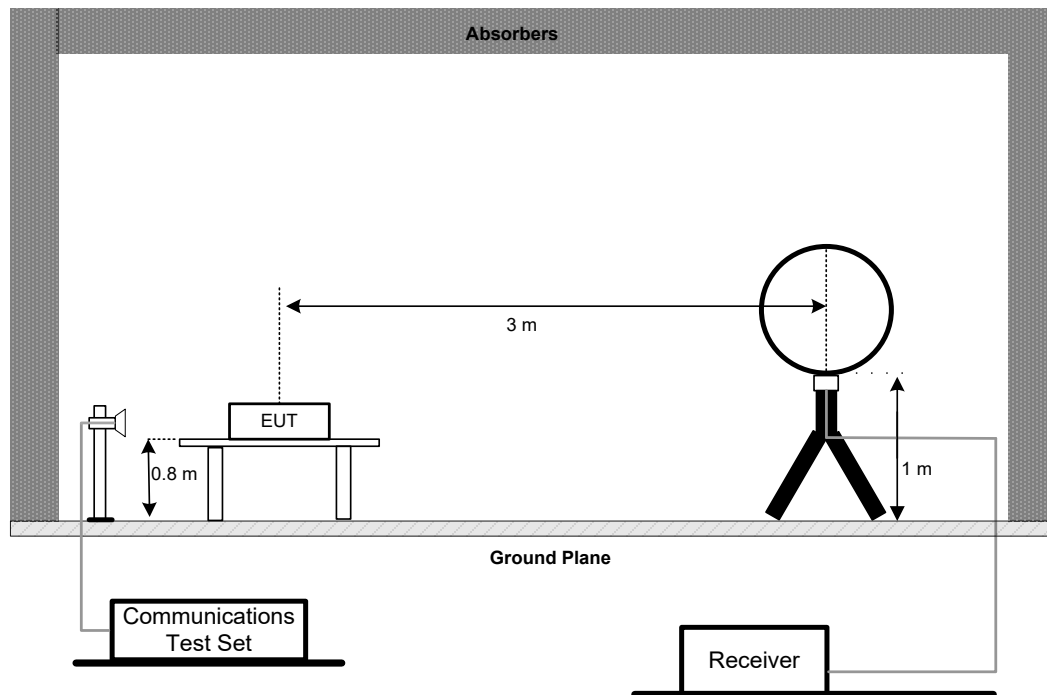
3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.2.

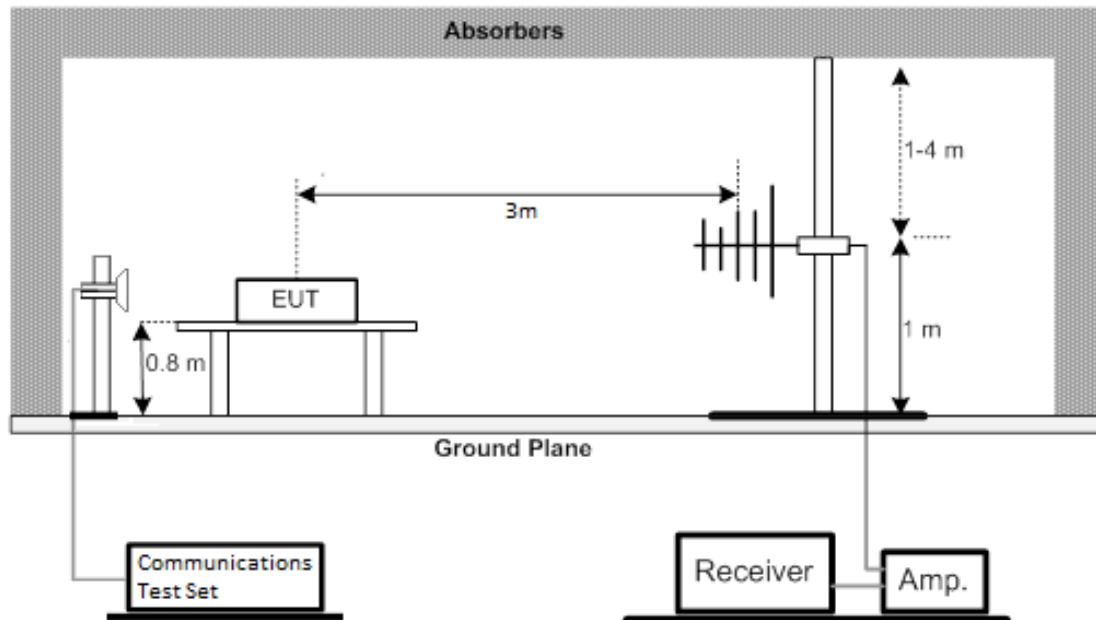
1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
3. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
4. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi}.$
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

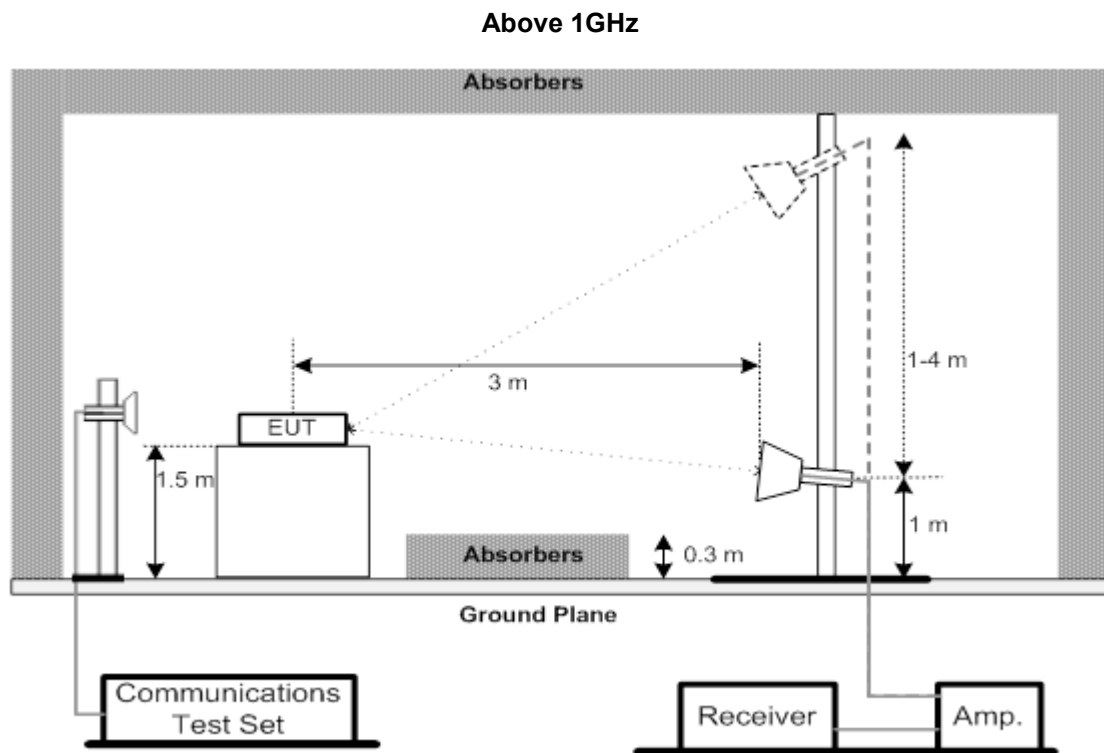
3.4.3 TEST SETUP LAYOUT

Below 30MHz



30MHz to 1000MHz





3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

3.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

3.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

3.5 BAND EDGE MEASUREMENT

3.5.1 LIMIT

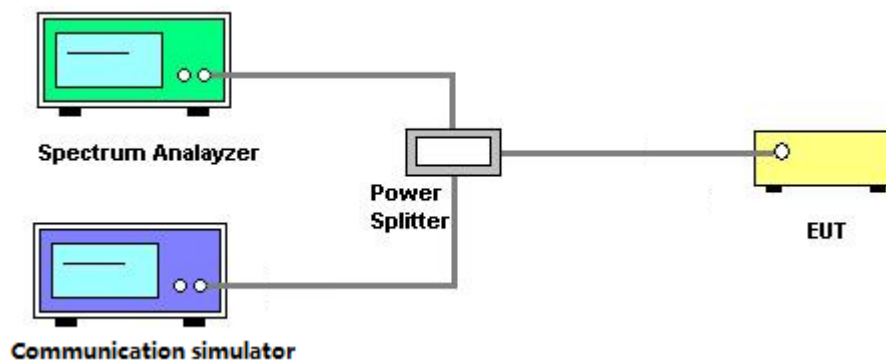
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX G.

3.6 PEAK TO AVERAGE RATIO MEASUREMENT

3.6.1 LIMIT

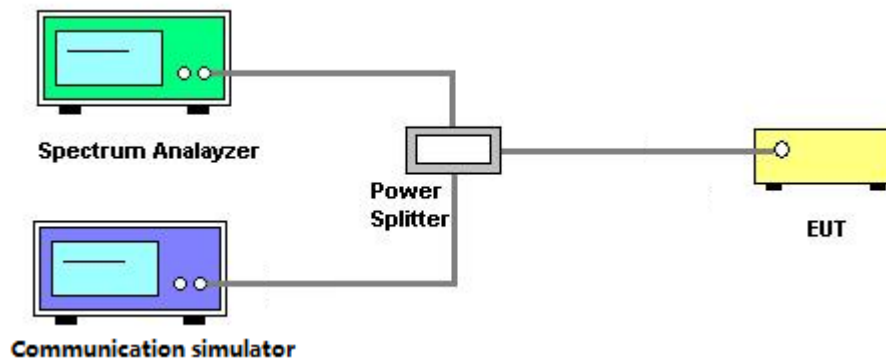
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX H.

3.7 FREQUENCY STABILITY MEASUREMENT

3.7.1 LIMIT

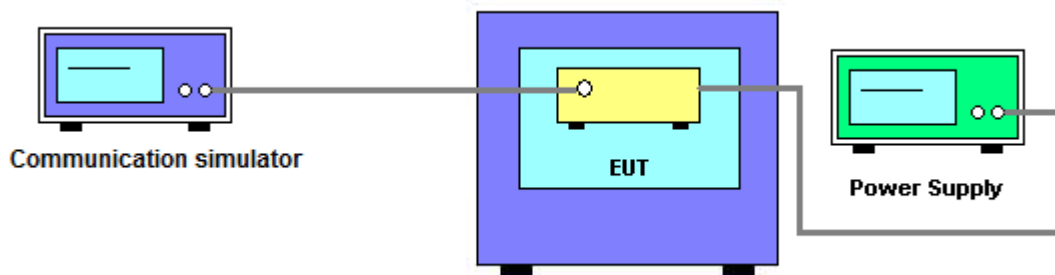
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

3.7.3 TEST SETUP LAYOUT



3.7.4 TEST DEVIATION

No deviation

3.7.5 TEST RESULTS

Please refer to the APPENDIX I.

4. LIST OF MEASUREMENT EQUIPMENTS

Radiated Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3231	Apr. 14, 2022
2	Amplifier	Agilent	8449B	3008A02334	Feb. 27, 2022
3	HighPass Filter	Wairwright Instruments Gmbh	WHK 1.5/15G-10ST	11	Feb. 27, 2022
4	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1710/1785-1690/1805-60/ 12SS	38	Feb. 27, 2022
5	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 824/849-810/863-60/9SS	7	Feb. 27, 2022
6	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 880/915-860/935-60/9SS	14	Feb. 27, 2022
7	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1850/1910-1830/1930-60/ 10SS	17	Feb. 27, 2022
8	HighPass Filter	Wairwright Instruments Gmbh	WHK3.1/18G-10SS	24	Feb. 27, 2022
9	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Feb. 28, 2022
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022
11	Receiver	Agilent	N9038A	MY52130039	Mar. 19, 2022
12	wideband radio communication tester	R&S	CMW500	152372	Feb. 27, 2022
13	High pass filter	KANGMAIWEI	ZHPF-M3-12.75G-3869	B2015073763	Feb. 07, 2022
14	High pass filter	KANGMAIWEI	ZHPF-M1000-4000-1	B2015073762	Feb. 07, 2022
15	High pass filter	KANGMAIWEI	ZHPF-M6-186-1727	B2015073764	Feb. 07, 2022
16	Cable	emci	LMR-400(30MHz-1GHz) (8m+5m)	N/A	May 20, 2022
17	Cable	mitron	RWLP50-4.0A-KJ-SMSM- 12M	N/A	Nov. 23, 2021
18	Controller	ETS-Lindgren	2090	N/A	N/A
19	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
20	Antenna	EM	EM-6876-1	230	Apr. 28, 2022
21	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 17, 2022
22	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	8960 Series 10 Wireless Com Test set	Agilent	E5515E	MY52112163	Jul. 24, 2022
2	MXA Signal Analyzer	Keysight	N9020A	MY49100060	Jul. 24, 2022
3	Power Splitter	Mini-Circuits	ZFRSC-183-S+	SF103501511S	Jul. 24, 2022
4	wideband radio communication tester	R&S	CMW500	104462	Jul. 24, 2022
5	Const Temp. & Humidity Chamber	Bell	BTH-50C	20170306001	Feb. 27, 2022
6*	Multi-output DC Power Supply	GW Instek	GPC-3030DN	EK880675	Jul. 25, 2023

Remark: "N/A" denotes no model name, serial no. or calibration specified.

Except * item, all calibration period of equipment list is one year.

"**" calibration period of equipment list is three year.

APPENDIX A - OUTPUT POWER

Output Power For Main Antenna (dBm):

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		32.65	32.56	32.47
GPRS/EDGE (GMSK)	1 Tx Slot	32.66	32.56	32.45
	2 Tx Slot	30.98	30.87	30.72
	3 Tx Slot	29.5	29.37	29.24
	4 Tx Slot	28.1	27.97	27.82
EDGE (8PSK)	1 Tx Slot	27.43	27.56	27.58
	2 Tx Slot	25.13	24.85	25.06
	3 Tx Slot	23.23	23.14	23.39
	4 Tx Slot	22	22.42	21.83

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK	RMC 12.2K	23.61	23.6	23.52
	RMC 64K	23.52	23.5	23.44
	RMC 144K	23.54	23.54	23.45
	RMC 384K	23.52	23.52	23.43
	HSDPA Subtest-1	23.22	23.2	23.15
	HSDPA Subtest-2	23.15	23.15	23.08
	HSDPA Subtest-3	22.64	22.67	22.58
	HSDPA Subtest-4	22.64	22.66	22.55
	HSUPA Subtest-1	21.27	21.36	21.17
	HSUPA Subtest-2	20.4	20.73	20.36
	HSUPA Subtest-3	21.71	21.73	21.62
	HSUPA Subtest-4	21.22	21.23	20.14
	HSUPA Subtest-5	22.17	22.19	22.1

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4M	QPSK	1	0	23.24	23.13	23.15
		1	2	23.29	23.20	23.24
		1	5	23.25	23.14	23.16
		3	0	23.34	23.29	23.24
		3	1	23.33	23.32	23.28
		3	2	23.32	23.33	23.24
		6	0	22.38	22.34	22.33
	16QAM	1	0	22.22	22.31	22.52
		1	2	22.24	22.38	22.59
		1	5	22.25	22.31	22.52
		3	0	22.49	22.34	22.47
		3	1	22.51	22.37	22.47
		3	2	22.49	22.37	22.48
		6	0	21.54	21.50	21.26
	64QAM	1	0	21.47	21.52	21.65
		1	2	21.53	21.56	21.79
		1	5	21.41	21.58	21.66
		3	0	21.54	21.37	21.72
		3	1	21.55	21.39	21.73
		3	2	21.56	21.39	21.72
		6	0	20.74	20.51	20.40

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3M	QPSK	1	0	23.03	23.11	22.97
		1	7	23.16	23.20	23.10
		1	14	23.04	23.07	22.99
		8	0	22.27	22.23	22.21
		8	4	22.30	22.33	22.29
		8	7	22.22	22.24	22.24
		15	0	22.22	22.26	22.19
	16QAM	1	0	21.96	22.45	22.10
		1	7	22.09	22.55	22.17
		1	14	21.94	22.46	22.04
		8	0	21.39	21.37	21.27
		8	4	21.42	21.44	21.36
		8	7	21.37	21.38	21.27
		15	0	21.30	21.28	21.21
	64QAM	1	0	21.51	21.28	21.39
		1	7	21.65	21.41	21.47
		1	14	21.47	21.31	21.32
		8	0	20.48	20.36	20.29
		8	4	20.47	20.44	20.36
		8	7	20.38	20.39	20.23
		15	0	20.29	20.39	20.37

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5M	QPSK	1	0	23.38	23.31	23.32
		1	13	23.51	23.41	23.43
		1	24	23.37	23.30	23.32
		12	0	22.30	22.28	22.31
		12	6	22.37	22.41	22.34
		12	11	22.31	22.38	22.32
		25	0	22.37	22.37	22.30
	16QAM	1	0	22.45	22.83	22.38
		1	13	22.56	22.95	22.52
		1	24	22.49	22.82	22.40
		12	0	21.38	21.46	21.39
		12	6	21.51	21.55	21.42
		12	11	21.43	21.53	21.39
		25	0	21.41	21.47	21.28
	64QAM	1	0	21.26	21.64	21.50
		1	13	21.38	21.75	21.66
		1	24	21.29	21.62	21.55
		12	0	20.46	20.31	20.47
		12	6	20.54	20.45	20.52
		12	11	20.48	20.43	20.50
		25	0	20.44	20.41	20.40

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10M	QPSK	1	0	23.33	23.43	23.33
		1	25	23.41	23.46	23.38
		1	49	23.36	23.42	23.36
		25	0	22.38	22.29	22.35
		25	13	22.43	22.45	22.39
		25	25	22.38	22.39	22.26
		50	0	22.38	22.36	22.32
	16QAM	1	0	22.30	22.75	22.32
		1	25	22.34	22.83	22.34
		1	49	22.31	22.75	22.26
		25	0	21.42	21.33	21.37
		25	13	21.47	21.48	21.41
		25	25	21.42	21.47	21.30
		50	0	21.43	21.41	21.35
	64QAM	1	0	21.59	21.75	21.51
		1	25	21.65	21.78	21.56
		1	49	21.61	21.70	21.53
		25	0	20.58	20.42	20.50
		25	13	20.60	20.59	20.53
		25	25	20.58	20.52	20.44
		50	0	20.55	20.45	20.48

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26797	CH26915	CH27033
				824.7MHz	836.5MHz	848.3MHz
26 / 1.4M	QPSK	1	0	23.12	23.15	23.20
		1	2	23.19	23.22	23.23
		1	5	23.14	23.15	23.19
		3	0	23.25	23.24	23.26
		3	1	23.27	23.27	23.29
		3	2	23.29	23.23	23.25
		6	0	22.33	22.33	22.32
	16QAM	1	0	22.54	22.20	22.26
		1	2	22.58	22.23	22.31
		1	5	22.52	22.23	22.23
		3	0	22.46	22.45	22.28
		3	1	22.46	22.46	22.30
		3	2	22.45	22.47	22.30
		6	0	21.23	21.49	21.45
	64QAM	1	0	21.69	21.41	21.46
		1	2	21.78	21.51	21.47
		1	5	21.68	21.37	21.48
		3	0	21.74	21.48	21.31
		3	1	21.72	21.52	21.32
		3	2	21.72	21.53	21.33
		6	0	20.41	20.72	20.49

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26805	CH26915	CH27025
				825.5MHz	836.5MHz	847.5MHz
26 / 3M	QPSK	1	0	23.09	23.00	22.98
		1	7	23.22	23.13	23.13
		1	14	23.08	23.01	22.99
		8	0	22.29	22.24	22.25
		8	4	22.33	22.30	22.28
		8	7	22.21	22.25	22.19
		15	0	22.21	22.22	22.23
	16QAM	1	0	22.44	22.14	21.95
		1	7	22.55	22.23	22.07
		1	14	22.41	22.09	21.88
		8	0	21.37	21.29	21.38
		8	4	21.43	21.36	21.42
		8	7	21.30	21.33	21.30
		15	0	21.27	21.25	21.26
	64QAM	1	0	21.29	21.42	21.51
		1	7	21.45	21.51	21.60
		1	14	21.32	21.37	21.45
		8	0	20.40	20.33	20.44
		8	4	20.50	20.37	20.45
		8	7	20.37	20.29	20.29
		15	0	20.39	20.36	20.27

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26815	CH26915	CH27015
				826.5MHz	836.5MHz	846.5MHz
26 / 5M	QPSK	1	0	23.29	23.30	23.36
		1	13	23.39	23.43	23.48
		1	24	23.31	23.33	23.32
		12	0	22.31	22.25	22.29
		12	6	22.35	22.37	22.36
		12	11	22.31	22.35	22.30
		25	0	22.34	22.34	22.32
	16QAM	1	0	22.80	22.41	22.43
		1	13	22.92	22.54	22.57
		1	24	22.78	22.46	22.45
		12	0	21.47	21.35	21.42
		12	6	21.50	21.47	21.48
		12	11	21.48	21.46	21.41
		25	0	21.42	21.35	21.35
	64QAM	1	0	21.62	21.54	21.26
		1	13	21.75	21.68	21.40
		1	24	21.66	21.61	21.26
		12	0	20.40	20.45	20.46
		12	6	20.39	20.56	20.51
		12	11	20.38	20.54	20.48
		25	0	20.42	20.48	20.40

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26840	CH26915	CH26990
				829MHz	836.5MHz	844MHz
26 / 10M	QPSK	1	0	23.36	23.33	23.28
		1	25	23.44	23.37	23.36
		1	49	23.39	23.31	23.32
		25	0	22.35	22.27	22.35
		25	13	22.40	22.41	22.37
		25	25	22.34	22.38	22.26
		50	0	22.34	22.29	22.30
	16QAM	1	0	22.69	22.38	22.28
		1	25	22.78	22.44	22.34
		1	49	22.76	22.39	22.25
		25	0	21.42	21.38	21.36
		25	13	21.43	21.53	21.39
		25	25	21.40	21.45	21.28
		50	0	21.41	21.40	21.36
	64QAM	1	0	21.48	21.56	21.70
		1	25	21.58	21.63	21.76
		1	49	21.52	21.56	21.70
		25	0	20.52	20.45	20.49
		25	13	20.56	20.58	20.52
		25	25	20.53	20.53	20.44
		50	0	20.50	20.43	20.42

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26865	CH26915	CH26965
				831.5MHz	836.5MHz	841.5MHz
26 / 15M	QPSK	1	0	23.37	23.35	23.26
		1	38	23.44	23.44	23.34
		1	74	23.36	23.36	23.29
		36	0	22.40	22.31	22.30
		36	18	22.39	22.35	22.37
		36	39	22.38	22.35	22.33
		75	0	22.42	22.34	22.33
	16QAM	1	0	22.69	22.72	22.22
		1	38	22.79	22.85	22.32
		1	74	22.69	22.75	22.22
		36	0	21.41	21.29	21.29
		36	18	21.43	21.34	21.34
		36	39	21.45	21.31	21.30
		75	0	21.46	21.37	21.34
	64QAM	1	0	21.46	21.95	21.65
		1	38	21.55	22.08	21.73
		1	74	21.45	21.99	21.64
		36	0	20.49	20.38	20.40
		36	18	20.51	20.43	20.45
		36	39	20.55	20.40	20.42
		75	0	20.50	20.45	20.39

ERP For Main Antenna (dBm):

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		31.00	30.91	30.82
GPRS/EDGE (GMSK)	1 Tx Slot	31.01	30.91	30.80
	2 Tx Slot	29.33	29.22	29.07
	3 Tx Slot	27.85	27.72	27.59
	4 Tx Slot	26.45	26.32	26.17
EDGE (8PSK)	1 Tx Slot	25.78	25.91	25.93
	2 Tx Slot	23.48	23.20	23.41
	3 Tx Slot	21.58	21.49	21.74
	4 Tx Slot	20.35	20.77	20.18

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK	RMC 12.2K	21.96	21.95	21.87
	RMC 64K	21.87	21.85	21.79
	RMC 144K	21.89	21.89	21.80
	RMC 384K	21.87	21.87	21.78
	HSDPA Subtest-1	21.57	21.55	21.50
	HSDPA Subtest-2	21.50	21.50	21.43
	HSDPA Subtest-3	20.99	21.02	20.93
	HSDPA Subtest-4	20.99	21.01	20.90
	HSUPA Subtest-1	19.62	19.71	19.52
	HSUPA Subtest-2	18.75	19.08	18.71
	HSUPA Subtest-3	20.06	20.08	19.97
	HSUPA Subtest-4	19.57	19.58	18.49
	HSUPA Subtest-5	20.52	20.54	20.45

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4M	QPSK	1	0	21.59	21.48	21.50
		1	2	21.64	21.55	21.59
		1	5	21.60	21.49	21.51
		3	0	21.69	21.64	21.59
		3	1	21.68	21.67	21.63
		3	2	21.67	21.68	21.59
		6	0	20.73	20.69	20.68
	16QAM	1	0	20.57	20.66	20.87
		1	2	20.59	20.73	20.94
		1	5	20.60	20.66	20.87
		3	0	20.84	20.69	20.82
		3	1	20.86	20.72	20.82
		3	2	20.84	20.72	20.83
		6	0	19.89	19.85	19.61
	64QAM	1	0	19.82	19.87	20.00
		1	2	19.88	19.91	20.14
		1	5	19.76	19.93	20.01
		3	0	19.89	19.72	20.07
		3	1	19.90	19.74	20.08
		3	2	19.91	19.74	20.07
		6	0	19.09	18.86	18.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3M	QPSK	1	0	21.38	21.46	21.32
		1	7	21.51	21.55	21.45
		1	14	21.39	21.42	21.34
		8	0	20.62	20.58	20.56
		8	4	20.65	20.68	20.64
		8	7	20.57	20.59	20.59
		15	0	20.57	20.61	20.54
	16QAM	1	0	20.31	20.80	20.45
		1	7	20.44	20.90	20.52
		1	14	20.29	20.81	20.39
		8	0	19.74	19.72	19.62
		8	4	19.77	19.79	19.71
		8	7	19.72	19.73	19.62
		15	0	19.65	19.63	19.56
	64QAM	1	0	19.86	19.63	19.74
		1	7	20.00	19.76	19.82
		1	14	19.82	19.66	19.67
		8	0	18.83	18.71	18.64
		8	4	18.82	18.79	18.71
		8	7	18.73	18.74	18.58
		15	0	18.64	18.74	18.72

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5M	QPSK	1	0	21.73	21.66	21.67
		1	13	21.86	21.76	21.78
		1	24	21.72	21.65	21.67
		12	0	20.65	20.63	20.66
		12	6	20.72	20.76	20.69
		12	11	20.66	20.73	20.67
		25	0	20.72	20.72	20.65
	16QAM	1	0	20.80	21.18	20.73
		1	13	20.91	21.30	20.87
		1	24	20.84	21.17	20.75
		12	0	19.73	19.81	19.74
		12	6	19.86	19.90	19.77
		12	11	19.78	19.88	19.74
		25	0	19.76	19.82	19.63
	64QAM	1	0	19.61	19.99	19.85
		1	13	19.73	20.10	20.01
		1	24	19.64	19.97	19.90
		12	0	18.81	18.66	18.82
		12	6	18.89	18.80	18.87
		12	11	18.83	18.78	18.85
		25	0	18.79	18.76	18.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10M	QPSK	1	0	21.68	21.78	21.68
		1	25	21.76	21.81	21.73
		1	49	21.71	21.77	21.71
		25	0	20.73	20.64	20.70
		25	13	20.78	20.80	20.74
		25	25	20.73	20.74	20.61
		50	0	20.73	20.71	20.67
	16QAM	1	0	20.65	21.10	20.67
		1	25	20.69	21.18	20.69
		1	49	20.66	21.10	20.61
		25	0	19.77	19.68	19.72
		25	13	19.82	19.83	19.76
		25	25	19.77	19.82	19.65
		50	0	19.78	19.76	19.70
	64QAM	1	0	19.94	20.10	19.86
		1	25	20.00	20.13	19.91
		1	49	19.96	20.05	19.88
		25	0	18.93	18.77	18.85
		25	13	18.95	18.94	18.88
		25	25	18.93	18.87	18.79
		50	0	18.90	18.80	18.83

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26797	CH26915	CH27033
				824.7MHz	836.5MHz	848.3MHz
26 / 1.4M	QPSK	1	0	21.47	21.50	21.55
		1	2	21.54	21.57	21.58
		1	5	21.49	21.50	21.54
		3	0	21.60	21.59	21.61
		3	1	21.62	21.62	21.64
		3	2	21.64	21.58	21.60
		6	0	20.68	20.68	20.67
	16QAM	1	0	20.89	20.55	20.61
		1	2	20.93	20.58	20.66
		1	5	20.87	20.58	20.58
		3	0	20.81	20.80	20.63
		3	1	20.81	20.81	20.65
		3	2	20.80	20.82	20.65
		6	0	19.58	19.84	19.80
	64QAM	1	0	20.04	19.76	19.81
		1	2	20.13	19.86	19.82
		1	5	20.03	19.72	19.83
		3	0	20.09	19.83	19.66
		3	1	20.07	19.87	19.67
		3	2	20.07	19.88	19.68
		6	0	18.76	19.07	18.84

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26805	CH26915	CH27025
				825.5MHz	836.5MHz	847.5MHz
26 / 3M	QPSK	1	0	21.44	21.35	21.33
		1	7	21.57	21.48	21.48
		1	14	21.43	21.36	21.34
		8	0	20.64	20.59	20.60
		8	4	20.68	20.65	20.63
		8	7	20.56	20.60	20.54
		15	0	20.56	20.57	20.58
	16QAM	1	0	20.79	20.49	20.30
		1	7	20.90	20.58	20.42
		1	14	20.76	20.44	20.23
		8	0	19.72	19.64	19.73
		8	4	19.78	19.71	19.77
		8	7	19.65	19.68	19.65
		15	0	19.62	19.60	19.61
	64QAM	1	0	19.64	19.77	19.86
		1	7	19.80	19.86	19.95
		1	14	19.67	19.72	19.80
		8	0	18.75	18.68	18.79
		8	4	18.85	18.72	18.80
		8	7	18.72	18.64	18.64
		15	0	18.74	18.71	18.62

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26815	CH26915	CH27015
				826.5MHz	836.5MHz	846.5MHz
26 / 5M	QPSK	1	0	21.64	21.65	21.71
		1	13	21.74	21.78	21.83
		1	24	21.66	21.68	21.67
		12	0	20.66	20.60	20.64
		12	6	20.70	20.72	20.71
		12	11	20.66	20.70	20.65
		25	0	20.69	20.69	20.67
	16QAM	1	0	21.15	20.76	20.78
		1	13	21.27	20.89	20.92
		1	24	21.13	20.81	20.80
		12	0	19.82	19.70	19.77
		12	6	19.85	19.82	19.83
		12	11	19.83	19.81	19.76
		25	0	19.77	19.70	19.70
	64QAM	1	0	19.97	19.89	19.61
		1	13	20.10	20.03	19.75
		1	24	20.01	19.96	19.61
		12	0	18.75	18.80	18.81
		12	6	18.74	18.91	18.86
		12	11	18.73	18.89	18.83
		25	0	18.77	18.83	18.75

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26840	CH26915	CH26990
				829MHz	836.5MHz	844MHz
26 / 10M	QPSK	1	0	21.71	21.68	21.63
		1	25	21.79	21.72	21.71
		1	49	21.74	21.66	21.67
		25	0	20.70	20.62	20.70
		25	13	20.75	20.76	20.72
		25	25	20.69	20.73	20.61
		50	0	20.69	20.64	20.65
	16QAM	1	0	21.04	20.73	20.63
		1	25	21.13	20.79	20.69
		1	49	21.11	20.74	20.60
		25	0	19.77	19.73	19.71
		25	13	19.78	19.88	19.74
		25	25	19.75	19.80	19.63
		50	0	19.76	19.75	19.71
	64QAM	1	0	19.83	19.91	20.05
		1	25	19.93	19.98	20.11
		1	49	19.87	19.91	20.05
		25	0	18.87	18.80	18.84
		25	13	18.91	18.93	18.87
		25	25	18.88	18.88	18.79
		50	0	18.85	18.78	18.77

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26865	CH26915	CH26965
				831.5MHz	836.5MHz	841.5MHz
26 / 15M	QPSK	1	0	21.72	21.70	21.61
		1	38	21.79	21.79	21.69
		1	74	21.71	21.71	21.64
		36	0	20.75	20.66	20.65
		36	18	20.74	20.70	20.72
		36	39	20.73	20.70	20.68
		75	0	20.77	20.69	20.68
	16QAM	1	0	21.04	21.07	20.57
		1	38	21.14	21.20	20.67
		1	74	21.04	21.10	20.57
		36	0	19.76	19.64	19.64
		36	18	19.78	19.69	19.69
		36	39	19.80	19.66	19.65
		75	0	19.81	19.72	19.69
	64QAM	1	0	19.81	20.30	20.00
		1	38	19.90	20.43	20.08
		1	74	19.80	20.34	19.99
		36	0	18.84	18.73	18.75
		36	18	18.86	18.78	18.80
		36	39	18.90	18.75	18.77
		75	0	18.85	18.80	18.74

Output Power For Second Antenna (dBm):

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		32.34	32.33	32.32
GPRS/EDGE (GMSK)	1 Tx Slot	32.34	32.31	32.30
	2 Tx Slot	30.53	30.46	30.43
	3 Tx Slot	29.02	28.95	28.90
	4 Tx Slot	27.58	27.52	27.46
EDGE (8PSK)	1 Tx Slot	26.78	26.89	26.85
	2 Tx Slot	24.94	24.91	24.71
	3 Tx Slot	22.63	22.80	22.61
	4 Tx Slot	21.81	21.89	21.72

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK	RMC 12.2K	23.49	23.48	23.35
	RMC 64K	23.5	23.5	23.37
	RMC 144K	23.5	23.5	23.37
	RMC 384K	23.53	23.52	23.41
	HSDPA Subtest-1	23.22	23.21	23.1
	HSDPA Subtest-2	23.14	23.13	23.05
	HSDPA Subtest-3	22.65	22.64	22.54
	HSDPA Subtest-4	22.64	22.65	22.53
	HSUPA Subtest-1	20.22	20.23	20.11
	HSUPA Subtest-2	20.72	20.75	19.62
	HSUPA Subtest-3	21.67	21.68	20.12
	HSUPA Subtest-4	21.22	20.25	21.09
	HSUPA Subtest-5	22.16	22.21	22.06

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4M	QPSK	1	0	23.05	23.09	22.99
		1	2	23.08	23.14	23.11
		1	5	23.05	23.10	23.03
		3	0	23.09	23.15	23.15
		3	1	23.11	23.19	23.21
		3	2	23.09	23.12	23.19
		6	0	22.17	22.22	22.25
	16QAM	1	0	22.11	22.45	22.09
		1	2	22.15	22.53	22.18
		1	5	22.10	22.45	22.16
		3	0	22.18	22.40	22.39
		3	1	22.18	22.39	22.41
		3	2	22.18	22.37	22.39
		6	0	21.33	21.15	21.45
	64QAM	1	0	21.57	21.34	21.37
		1	2	21.64	21.41	21.46
		1	5	21.54	21.26	21.42
		3	0	21.58	21.39	21.26
		3	1	21.57	21.43	21.28
		3	2	21.58	21.43	21.29
		6	0	20.23	20.60	20.44

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3M	QPSK	1	0	22.84	22.97	22.87
		1	7	23.00	23.07	23.01
		1	14	22.86	22.97	22.90
		8	0	22.08	22.13	22.12
		8	4	22.14	22.16	22.21
		8	7	22.05	22.13	22.14
		15	0	22.06	22.10	22.12
	16QAM	1	0	21.78	22.30	21.99
		1	7	21.92	22.45	22.11
		1	14	21.72	22.34	21.99
		8	0	21.22	21.23	21.19
		8	4	21.22	21.32	21.29
		8	7	21.17	21.27	21.21
		15	0	21.10	21.17	21.12
	64QAM	1	0	21.34	21.15	21.29
		1	7	21.46	21.29	21.39
		1	14	21.32	21.21	21.26
		8	0	20.26	20.24	20.18
		8	4	20.29	20.29	20.28
		8	7	20.19	20.26	20.20
		15	0	20.13	20.24	20.27

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5M	QPSK	1	0	23.19	23.19	23.21
		1	13	23.35	23.29	23.33
		1	24	23.21	23.17	23.24
		12	0	22.13	22.10	22.23
		12	6	22.19	22.26	22.24
		12	11	22.11	22.27	22.26
		25	0	22.17	22.26	22.25
	16QAM	1	0	22.28	22.69	22.28
		1	13	22.35	22.86	22.43
		1	24	22.26	22.72	22.35
		12	0	21.25	21.29	21.32
		12	6	21.31	21.43	21.34
		12	11	21.21	21.44	21.34
		25	0	21.21	21.36	21.23
	64QAM	1	0	21.11	21.51	21.38
		1	13	21.20	21.64	21.57
		1	24	21.09	21.53	21.49
		12	0	20.33	20.15	20.40
		12	6	20.33	20.30	20.42
		12	11	20.29	20.31	20.43
		25	0	20.28	20.31	20.36

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10M	QPSK	1	0	23.15	23.22	23.30
		1	25	23.26	23.23	23.33
		1	49	23.23	23.25	23.30
		25	0	22.26	22.14	22.27
		25	13	22.25	22.35	22.28
		25	25	22.16	22.34	22.16
		50	0	22.23	22.26	22.22
	16QAM	1	0	22.21	22.17	22.62
		1	25	22.27	22.26	22.66
		1	49	22.28	22.18	22.64
		25	0	21.37	21.15	21.32
		25	13	21.35	21.35	21.32
		25	25	21.27	21.44	21.22
		50	0	21.35	21.25	21.25
	64QAM	1	0	21.53	21.40	21.48
		1	25	21.61	21.43	21.49
		1	49	21.59	21.41	21.48
		25	0	20.41	20.27	20.40
		25	13	20.40	20.45	20.44
		25	25	20.34	20.51	20.32
		50	0	20.39	20.42	20.32

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26797	CH26915	CH27033
				824.7MHz	836.5MHz	848.3MHz
26 / 1.4M	QPSK	1	0	22.94	23.01	22.96
		1	2	22.99	23.04	23.01
		1	5	22.93	22.99	22.96
		3	0	23.01	23.07	23.08
		3	1	23.01	23.09	23.09
		3	2	22.99	23.07	23.12
		6	0	22.09	22.14	22.20
	16QAM	1	0	22.30	22.03	22.11
		1	2	22.33	22.10	22.18
		1	5	22.28	22.05	22.12
		3	0	22.24	22.28	22.17
		3	1	22.22	22.31	22.17
		3	2	22.22	22.30	22.17
		6	0	21.00	21.32	21.33
	64QAM	1	0	21.45	21.24	21.30
		1	2	21.55	21.33	21.35
		1	5	21.43	21.17	21.36
		3	0	21.50	21.32	21.18
		3	1	21.48	21.34	21.20
		3	2	21.47	21.35	21.19
		6	0	20.17	20.54	20.33

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26805	CH26915	CH27025
				825.5MHz	836.5MHz	847.5MHz
26 / 3M	QPSK	1	0	22.84	22.84	22.84
		1	7	22.98	22.95	23.00
		1	14	22.84	22.83	22.85
		8	0	22.05	22.03	22.09
		8	4	22.09	22.12	22.16
		8	7	21.97	22.08	22.07
		15	0	21.97	22.04	22.09
	16QAM	1	0	22.19	21.93	21.80
		1	7	22.34	22.06	21.95
		1	14	22.16	21.91	21.79
		8	0	21.14	21.09	21.25
		8	4	21.20	21.17	21.26
		8	7	21.03	21.14	21.19
		15	0	21.05	21.03	21.12
	64QAM	1	0	21.02	21.22	21.31
		1	7	21.20	21.33	21.47
		1	14	21.08	21.19	21.32
		8	0	20.16	20.11	20.27
		8	4	20.23	20.16	20.30
		8	7	20.13	20.12	20.19
		15	0	20.13	20.18	20.13

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26815	CH26915	CH27015
				826.5MHz	836.5MHz	846.5MHz
26 / 5M	QPSK	1	0	23.03	23.13	23.22
		1	13	23.16	23.28	23.33
		1	24	23.06	23.19	23.20
		12	0	22.07	22.05	22.18
		12	6	22.10	22.23	22.21
		12	11	22.04	22.23	22.18
		25	0	22.09	22.19	22.22
	16QAM	1	0	22.54	22.22	22.25
		1	13	22.66	22.38	22.41
		1	24	22.54	22.29	22.31
		12	0	21.27	21.12	21.29
		12	6	21.26	21.27	21.30
		12	11	21.22	21.28	21.28
		25	0	21.19	21.17	21.24
	64QAM	1	0	21.37	21.33	21.08
		1	13	21.50	21.51	21.22
		1	24	21.39	21.43	21.12
		12	0	20.18	20.20	20.34
		12	6	20.16	20.37	20.37
		12	11	20.14	20.39	20.33
		25	0	20.17	20.30	20.30

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26840	CH26915	CH26990
				829MHz	836.5MHz	844MHz
26 / 10M	QPSK	1	0	23.13	23.12	23.15
		1	25	23.22	23.19	23.21
		1	49	23.21	23.14	23.16
		25	0	22.18	22.05	22.19
		25	13	22.13	22.26	22.22
		25	25	22.08	22.25	22.07
		50	0	22.14	22.15	22.16
	16QAM	1	0	22.46	22.16	22.11
		1	25	22.52	22.29	22.16
		1	49	22.53	22.21	22.13
		25	0	21.21	21.16	21.24
		25	13	21.18	21.35	21.23
		25	25	21.15	21.38	21.14
		50	0	21.18	21.23	21.22
	64QAM	1	0	21.24	21.35	21.50
		1	25	21.32	21.45	21.59
		1	49	21.32	21.38	21.57
		25	0	20.37	20.21	20.35
		25	13	20.33	20.41	20.38
		25	25	20.26	20.45	20.26
		50	0	20.30	20.27	20.29

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26865	CH26915	CH26965
				831.5MHz	836.5MHz	841.5MHz
26 / 15M	QPSK	1	0	23.16	23.12	23.07
		1	38	23.24	23.25	23.20
		1	74	23.19	23.20	23.14
		36	0	22.27	22.11	22.04
		36	18	22.20	22.15	22.18
		36	39	22.23	22.18	22.14
		75	0	22.26	22.16	22.06
	16QAM	1	0	22.47	22.46	22.03
		1	38	22.58	22.72	22.13
		1	74	22.56	22.56	22.08
		36	0	21.25	21.09	21.03
		36	18	21.23	21.16	21.15
		36	39	21.29	21.16	21.09
		75	0	21.26	21.17	21.08
	64QAM	1	0	21.25	21.70	21.45
		1	38	21.35	21.89	21.55
		1	74	21.32	21.79	21.51
		36	0	20.37	20.17	20.15
		36	18	20.30	20.26	20.27
		36	39	20.34	20.25	20.19
		75	0	20.35	20.28	20.17

ERP For Second Antenna (dBm):

GSM850		128CH	190CH	251CH
		824.2MHz	836.6MHz	848.8MHz
GSM (CS)		30.69	30.68	30.67
GPRS/EDGE (GMSK)	1 Tx Slot	30.69	30.66	30.65
	2 Tx Slot	28.88	28.81	28.78
	3 Tx Slot	27.37	27.30	27.25
	4 Tx Slot	25.93	25.87	25.81
EDGE (8PSK)	1 Tx Slot	25.13	25.24	25.20
	2 Tx Slot	23.29	23.26	23.06
	3 Tx Slot	20.98	21.15	20.96
	4 Tx Slot	20.16	20.24	20.07

Modulation	Band	WCDMA Band V		
	Tx Channel	4132CH	4182CH	4233CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
QPSK	RMC 12.2K	21.84	21.83	21.70
	RMC 64K	21.85	21.85	21.72
	RMC 144K	21.85	21.85	21.72
	RMC 384K	21.88	21.87	21.76
	HSDPA Subtest-1	21.57	21.56	21.45
	HSDPA Subtest-2	21.49	21.48	21.40
	HSDPA Subtest-3	21.00	20.99	20.89
	HSDPA Subtest-4	20.99	21.00	20.88
	HSUPA Subtest-1	18.57	18.58	18.46
	HSUPA Subtest-2	19.07	19.10	17.97
	HSUPA Subtest-3	20.02	20.03	18.47
	HSUPA Subtest-4	19.57	18.60	19.44
	HSUPA Subtest-5	20.51	20.56	20.41

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20407CH	20525CH	20643CH
				824.7MHz	836.5MHz	848.3MHz
5 / 1.4M	QPSK	1	0	21.40	21.44	21.34
		1	2	21.43	21.49	21.46
		1	5	21.40	21.45	21.38
		3	0	21.44	21.50	21.50
		3	1	21.46	21.54	21.56
		3	2	21.44	21.47	21.54
		6	0	20.52	20.57	20.60
	16QAM	1	0	20.46	20.80	20.44
		1	2	20.50	20.88	20.53
		1	5	20.45	20.80	20.51
		3	0	20.53	20.75	20.74
		3	1	20.53	20.74	20.76
		3	2	20.53	20.72	20.74
		6	0	19.68	19.50	19.80
	64QAM	1	0	19.92	19.69	19.72
		1	2	19.99	19.76	19.81
		1	5	19.89	19.61	19.77
		3	0	19.93	19.74	19.61
		3	1	19.92	19.78	19.63
		3	2	19.93	19.78	19.64
		6	0	18.58	18.95	18.79

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20415CH	20525CH	20635CH
				825.5MHz	836.5MHz	847.5MHz
5 / 3M	QPSK	1	0	21.19	21.32	21.22
		1	7	21.35	21.42	21.36
		1	14	21.21	21.32	21.25
		8	0	20.43	20.48	20.47
		8	4	20.49	20.51	20.56
		8	7	20.40	20.48	20.49
		15	0	20.41	20.45	20.47
	16QAM	1	0	20.13	20.65	20.34
		1	7	20.27	20.80	20.46
		1	14	20.07	20.69	20.34
		8	0	19.57	19.58	19.54
		8	4	19.57	19.67	19.64
		8	7	19.52	19.62	19.56
		15	0	19.45	19.52	19.47
	64QAM	1	0	19.69	19.50	19.64
		1	7	19.81	19.64	19.74
		1	14	19.67	19.56	19.61
		8	0	18.61	18.59	18.53
		8	4	18.64	18.64	18.63
		8	7	18.54	18.61	18.55
		15	0	18.48	18.59	18.62

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20425CH	20525CH	20625CH
				826.5MHz	836.5MHz	846.5MHz
5 / 5M	QPSK	1	0	21.54	21.54	21.56
		1	13	21.70	21.64	21.68
		1	24	21.56	21.52	21.59
		12	0	20.48	20.45	20.58
		12	6	20.54	20.61	20.59
		12	11	20.46	20.62	20.61
		25	0	20.52	20.61	20.60
	16QAM	1	0	20.63	21.04	20.63
		1	13	20.70	21.21	20.78
		1	24	20.61	21.07	20.70
		12	0	19.60	19.64	19.67
		12	6	19.66	19.78	19.69
		12	11	19.56	19.79	19.69
		25	0	19.56	19.71	19.58
	64QAM	1	0	19.46	19.86	19.73
		1	13	19.55	19.99	19.92
		1	24	19.44	19.88	19.84
		12	0	18.68	18.50	18.75
		12	6	18.68	18.65	18.77
		12	11	18.64	18.66	18.78
		25	0	18.63	18.66	18.71

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				20450CH	20525CH	20600CH
				829.0MHz	836.5MHz	844.0MHz
5 / 10M	QPSK	1	0	21.50	21.57	21.65
		1	25	21.61	21.58	21.68
		1	49	21.58	21.60	21.65
		25	0	20.61	20.49	20.62
		25	13	20.60	20.70	20.63
		25	25	20.51	20.69	20.51
		50	0	20.58	20.61	20.57
	16QAM	1	0	20.56	20.52	20.97
		1	25	20.62	20.61	21.01
		1	49	20.63	20.53	20.99
		25	0	19.72	19.50	19.67
		25	13	19.70	19.70	19.67
		25	25	19.62	19.79	19.57
		50	0	19.70	19.60	19.60
	64QAM	1	0	19.88	19.75	19.83
		1	25	19.96	19.78	19.84
		1	49	19.94	19.76	19.83
		25	0	18.76	18.62	18.75
		25	13	18.75	18.80	18.79
		25	25	18.69	18.86	18.67
		50	0	18.74	18.77	18.67

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26797	CH26915	CH27033
				824.7MHz	836.5MHz	848.3MHz
26 / 1.4M	QPSK	1	0	21.29	21.36	21.31
		1	2	21.34	21.39	21.36
		1	5	21.28	21.34	21.31
		3	0	21.36	21.42	21.43
		3	1	21.36	21.44	21.44
		3	2	21.34	21.42	21.47
		6	0	20.44	20.49	20.55
	16QAM	1	0	20.65	20.38	20.46
		1	2	20.68	20.45	20.53
		1	5	20.63	20.40	20.47
		3	0	20.59	20.63	20.52
		3	1	20.57	20.66	20.52
		3	2	20.57	20.65	20.52
		6	0	19.35	19.67	19.68
	64QAM	1	0	19.80	19.59	19.65
		1	2	19.90	19.68	19.70
		1	5	19.78	19.52	19.71
		3	0	19.85	19.67	19.53
		3	1	19.83	19.69	19.55
		3	2	19.82	19.70	19.54
		6	0	18.52	18.89	18.68

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26805	CH26915	CH27025
				825.5MHz	836.5MHz	847.5MHz
26 / 3M	QPSK	1	0	21.19	21.19	21.19
		1	7	21.33	21.30	21.35
		1	14	21.19	21.18	21.20
		8	0	20.40	20.38	20.44
		8	4	20.44	20.47	20.51
		8	7	20.32	20.43	20.42
		15	0	20.32	20.39	20.44
	16QAM	1	0	20.54	20.28	20.15
		1	7	20.69	20.41	20.30
		1	14	20.51	20.26	20.14
		8	0	19.49	19.44	19.60
		8	4	19.55	19.52	19.61
		8	7	19.38	19.49	19.54
		15	0	19.40	19.38	19.47
	64QAM	1	0	19.37	19.57	19.66
		1	7	19.55	19.68	19.82
		1	14	19.43	19.54	19.67
		8	0	18.51	18.46	18.62
		8	4	18.58	18.51	18.65
		8	7	18.48	18.47	18.54
		15	0	18.48	18.53	18.48

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26815	CH26915	CH27015
				826.5MHz	836.5MHz	846.5MHz
26 / 5M	QPSK	1	0	21.38	21.48	21.57
		1	13	21.51	21.63	21.68
		1	24	21.41	21.54	21.55
		12	0	20.42	20.40	20.53
		12	6	20.45	20.58	20.56
		12	11	20.39	20.58	20.53
		25	0	20.44	20.54	20.57
	16QAM	1	0	20.89	20.57	20.60
		1	13	21.01	20.73	20.76
		1	24	20.89	20.64	20.66
		12	0	19.62	19.47	19.64
		12	6	19.61	19.62	19.65
		12	11	19.57	19.63	19.63
		25	0	19.54	19.52	19.59
	64QAM	1	0	19.72	19.68	19.43
		1	13	19.85	19.86	19.57
		1	24	19.74	19.78	19.47
		12	0	18.53	18.55	18.69
		12	6	18.51	18.72	18.72
		12	11	18.49	18.74	18.68
		25	0	18.52	18.65	18.65

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26840	CH26915	CH26990
				829MHz	836.5MHz	844MHz
26 / 10M	QPSK	1	0	21.48	21.47	21.50
		1	25	21.57	21.54	21.56
		1	49	21.56	21.49	21.51
		25	0	20.53	20.40	20.54
		25	13	20.48	20.61	20.57
		25	25	20.43	20.60	20.42
		50	0	20.49	20.50	20.51
	16QAM	1	0	20.81	20.51	20.46
		1	25	20.87	20.64	20.51
		1	49	20.88	20.56	20.48
		25	0	19.56	19.51	19.59
		25	13	19.53	19.70	19.58
		25	25	19.50	19.73	19.49
		50	0	19.53	19.58	19.57
	64QAM	1	0	19.59	19.70	19.85
		1	25	19.67	19.80	19.94
		1	49	19.67	19.73	19.92
		25	0	18.72	18.56	18.70
		25	13	18.68	18.76	18.73
		25	25	18.61	18.80	18.61
		50	0	18.65	18.62	18.64

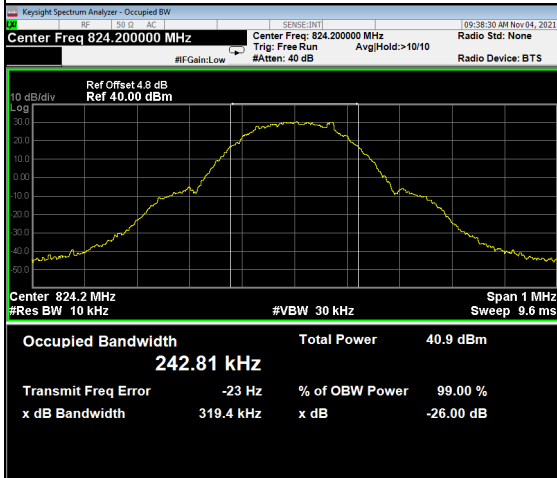
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				CH26865	CH26915	CH26965
				831.5MHz	836.5MHz	841.5MHz
26 / 15M	QPSK	1	0	21.51	21.47	21.42
		1	38	21.59	21.60	21.55
		1	74	21.54	21.55	21.49
		36	0	20.62	20.46	20.39
		36	18	20.55	20.50	20.53
		36	39	20.58	20.53	20.49
		75	0	20.61	20.51	20.41
	16QAM	1	0	20.82	20.81	20.38
		1	38	20.93	21.07	20.48
		1	74	20.91	20.91	20.43
		36	0	19.60	19.44	19.38
		36	18	19.58	19.51	19.50
		36	39	19.64	19.51	19.44
		75	0	19.61	19.52	19.43
	64QAM	1	0	19.60	20.05	19.80
		1	38	19.70	20.24	19.90
		1	74	19.67	20.14	19.86
		36	0	18.72	18.52	18.50
		36	18	18.65	18.61	18.62
		36	39	18.69	18.60	18.54
		75	0	18.70	18.63	18.52

APPENDIX B - OCCUPIED BANDWIDTH

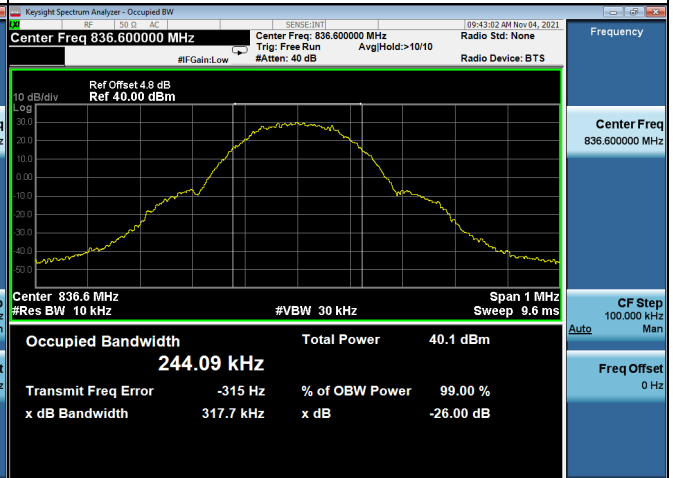
GSM850					
GSM			EDGE		
CS			8PSK		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
128	824.2	0.2428	128	824.2	0.2451
190	836.6	0.2441	190	836.6	0.2441
251	848.8	0.2436	251	848.8	0.2437
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
128	824.2	0.3194	128	824.2	0.3113
190	836.6	0.3177	190	836.6	0.3185
251	848.8	0.3158	251	848.8	0.3146

Spectrum Plot

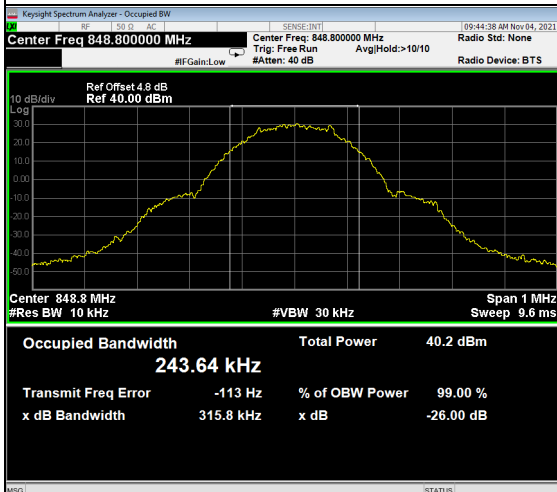
GSM-128



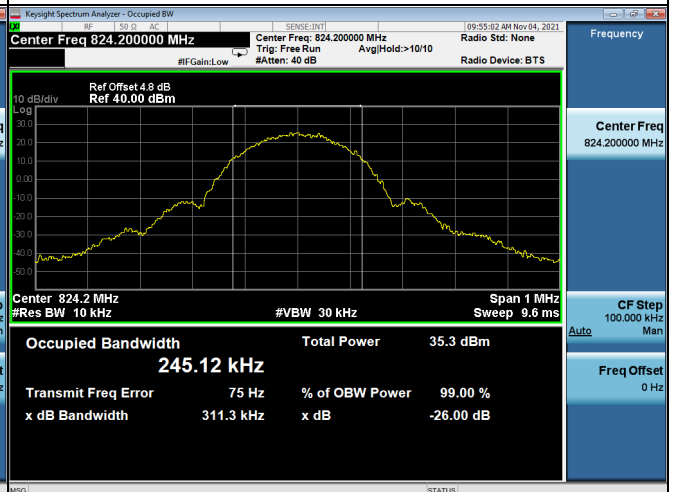
GSM-190



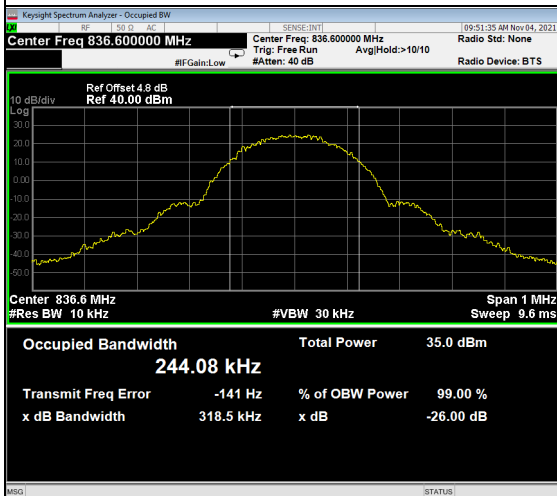
GSM-251



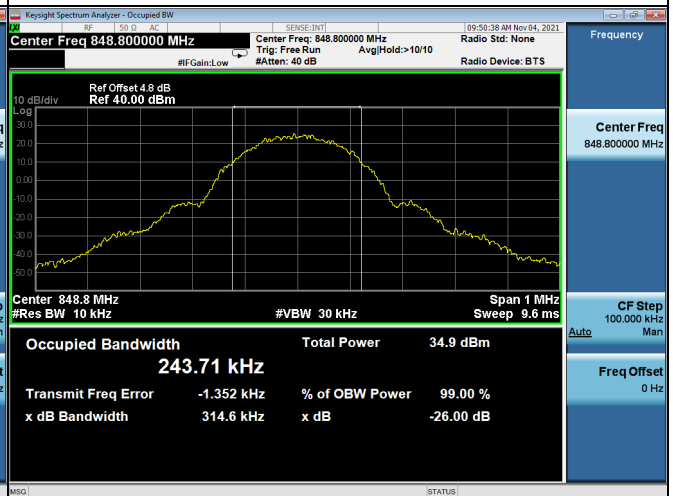
EDGE-128



EDGE-190



EDGE-251



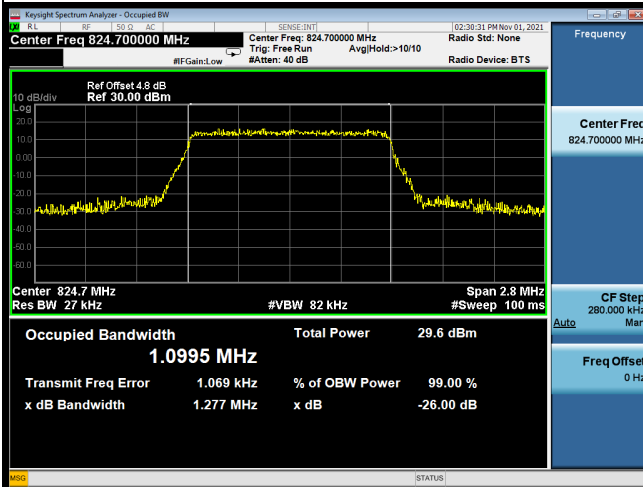
WCDMA Band V_WCDMA					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
4132	826.4	4.1742	4132	826.4	4.742
4182	836.4	4.1644	4182	836.4	4.701
4233	846.6	4.1705	4233	846.6	4.716



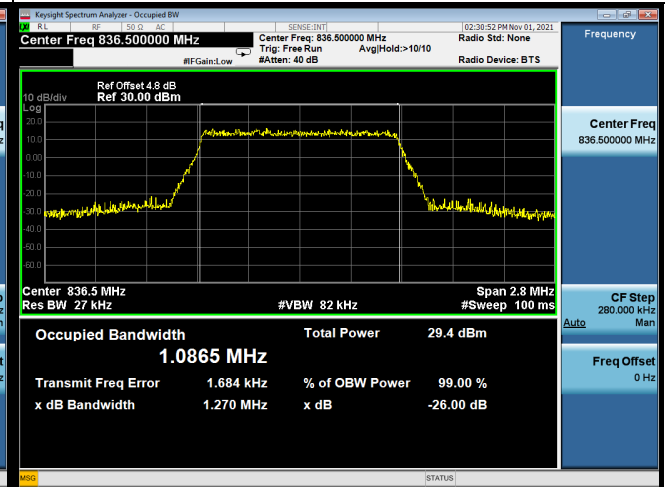
LTE Band 5_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20407	824.7	1.0995	20407	824.7	1.277
20525	836.5	1.0865	20525	836.5	1.270
20643	848.3	1.0941	20643	848.3	1.261
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20407	824.7	1.0931	20407	824.7	1.272
20525	836.5	1.0949	20525	836.5	1.280
20643	848.3	1.0880	20643	848.3	1.259
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20407	824.7	1.0891	20407	824.7	1.269
20525	836.5	1.0878	20525	836.5	1.258
20643	848.3	1.0849	20643	848.3	1.250

Spectrum Plot

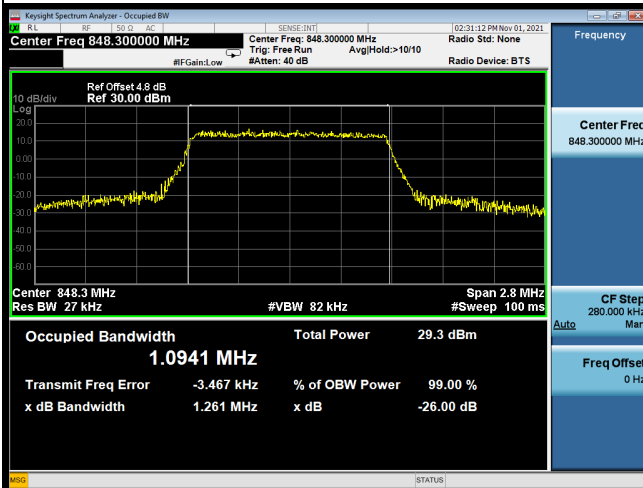
QPSK-20407



QPSK-20525



QPSK-20643



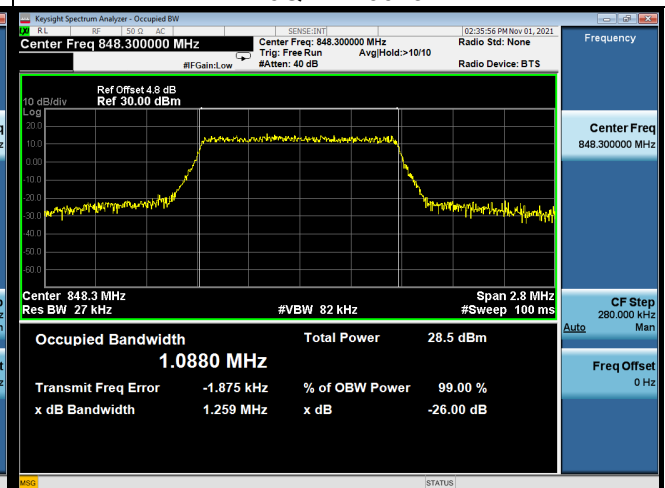
16QAM-20407



16QAM-20525

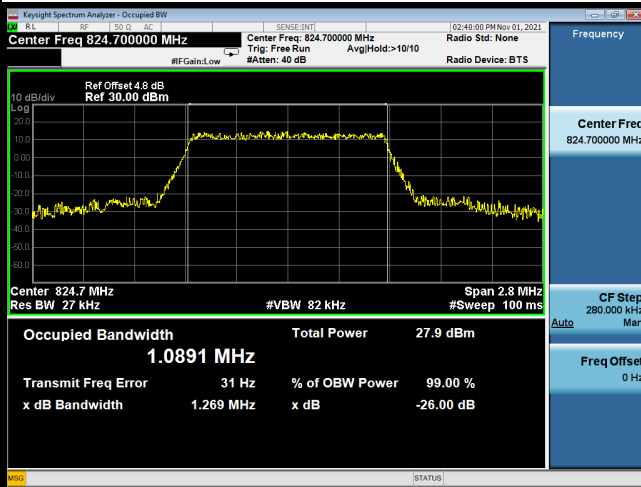


16QAM-20643

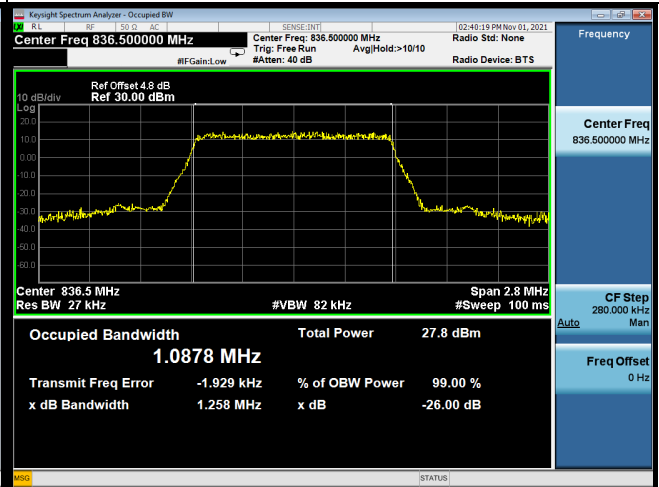


Spectrum Plot

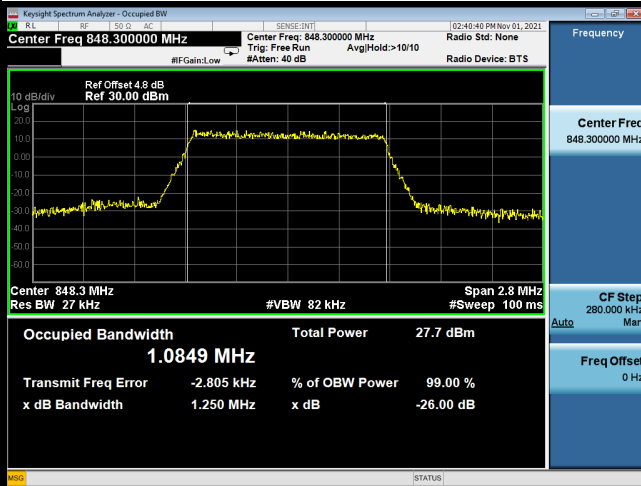
64QAM-20407



64QAM-20525



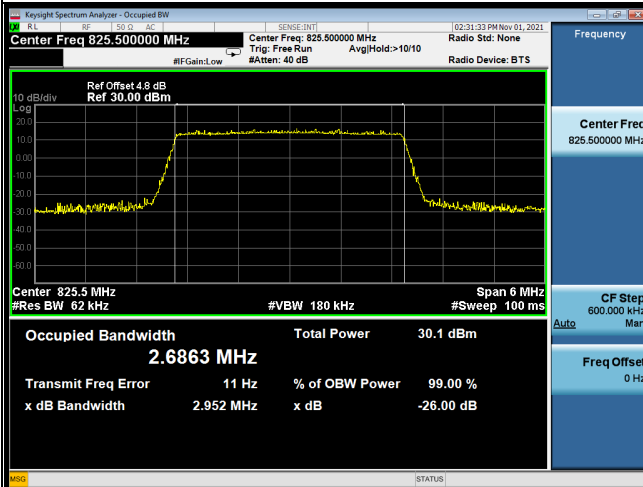
64QAM-20643



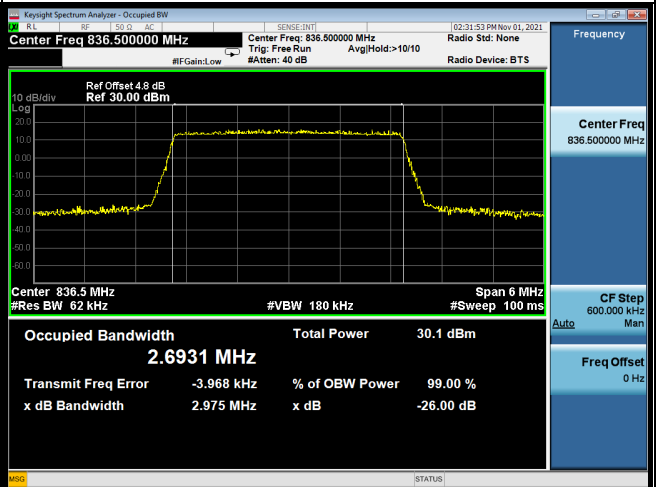
LTE Band 5_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20415	825.5	2.6863	20415	825.5	2.952
20525	836.5	2.6931	20525	836.5	2.975
20635	847.5	2.6880	20635	847.5	2.947
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20415	825.5	2.6930	20415	825.5	2.980
20525	836.5	2.6881	20525	836.5	2.964
20635	847.5	2.6831	20635	847.5	2.985
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20415	825.5	2.6926	20415	825.5	2.963
20525	836.5	2.6863	20525	836.5	2.949
20635	847.5	2.6791	20635	847.5	2.964

Spectrum Plot

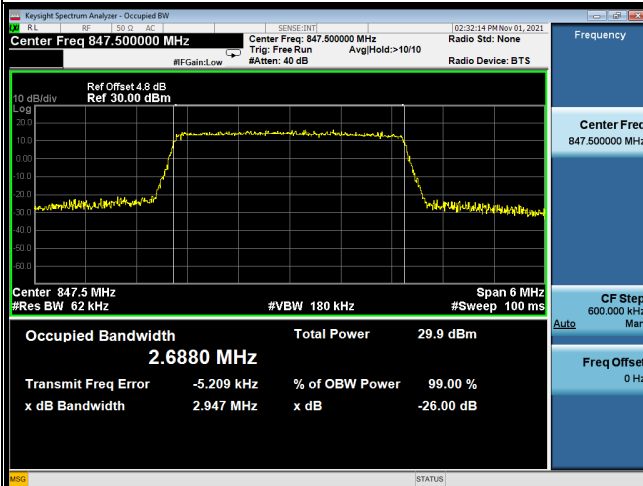
QPSK-20415



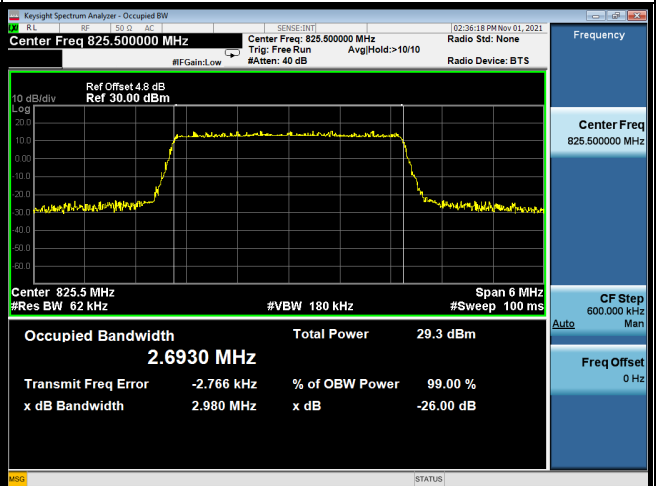
QPSK-20525



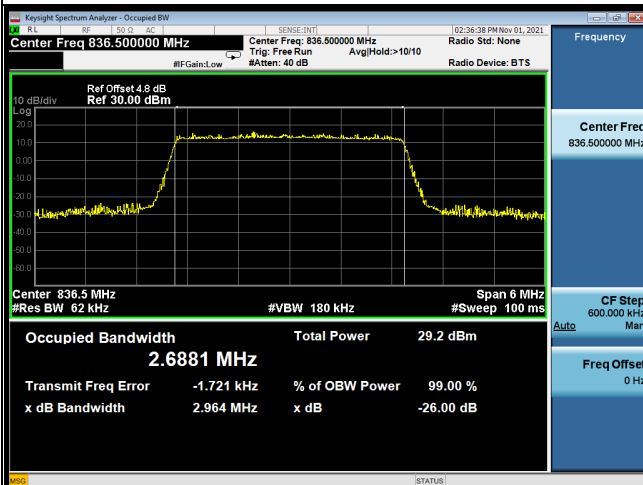
QPSK-20635



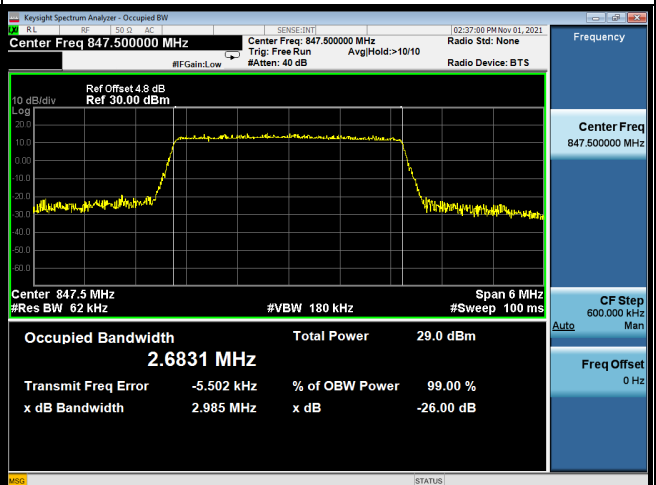
16QAM-20415



16QAM-20525

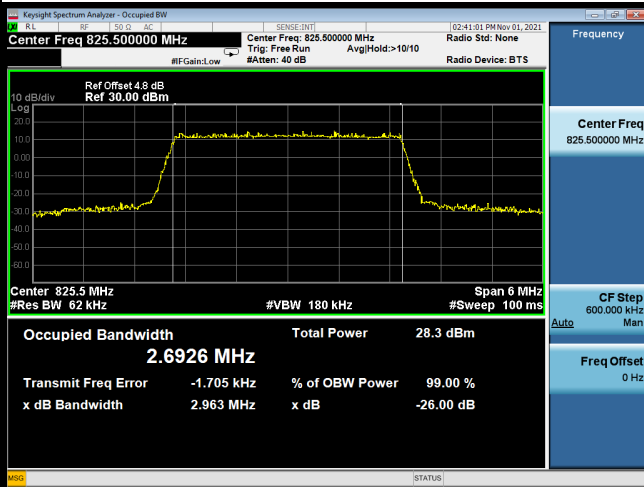


16QAM-20635



Spectrum Plot

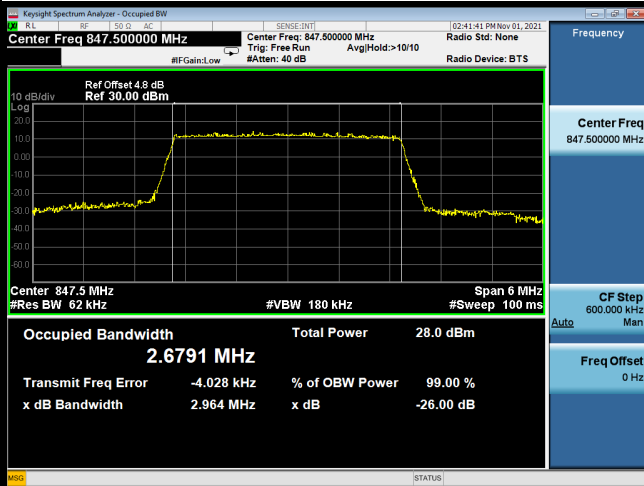
64QAM-20415



64QAM-20525



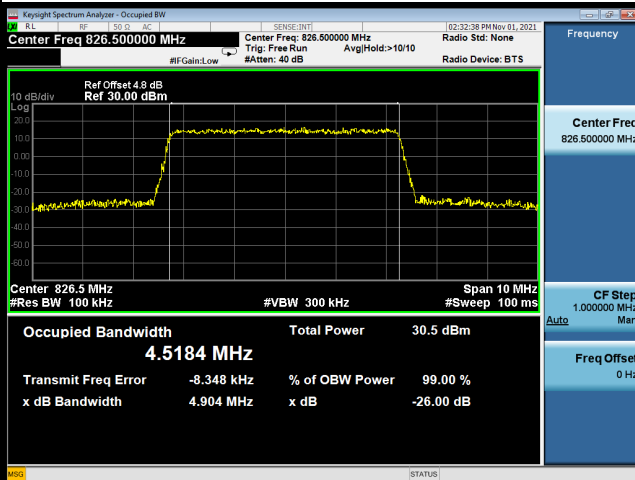
64QAM-20635



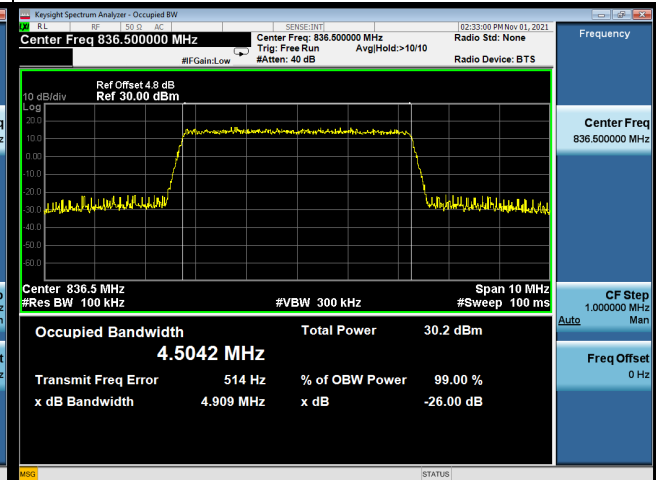
LTE Band 5_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20425	826.5	4.5184	20425	826.5	4.904
20525	836.5	4.5042	20525	836.5	4.909
20625	846.5	4.4882	20625	846.5	4.868
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20425	826.5	4.4993	20425	826.5	4.870
20525	836.5	4.4951	20525	836.5	4.884
20625	846.5	4.4921	20625	846.5	4.889
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20425	826.5	4.5045	20425	826.5	4.905
20525	836.5	4.4999	20525	836.5	4.884
20625	846.5	4.4943	20625	846.5	4.912

Spectrum Plot

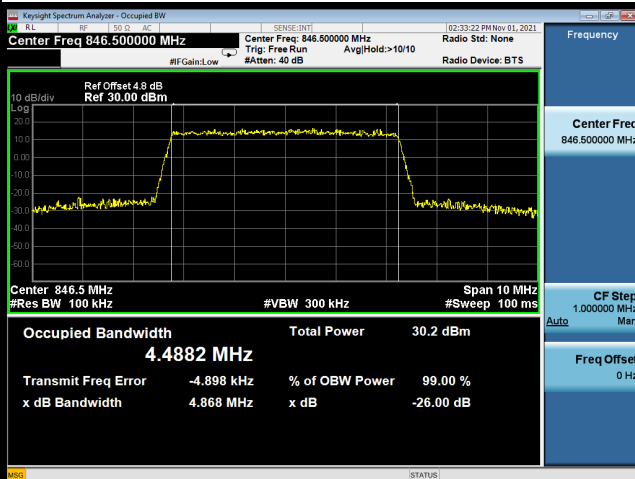
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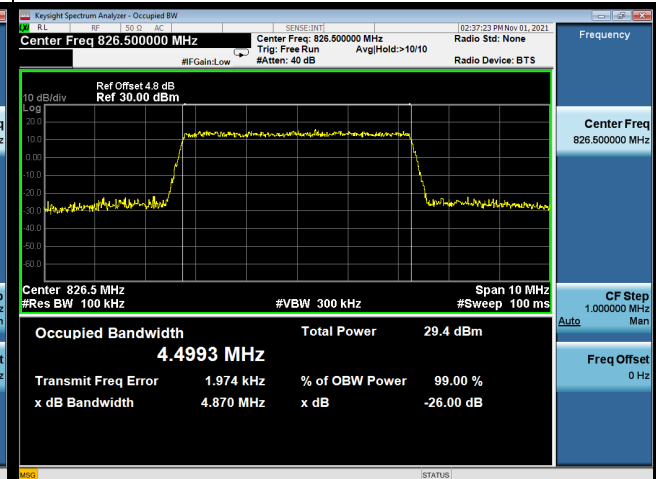
QPSK-20525



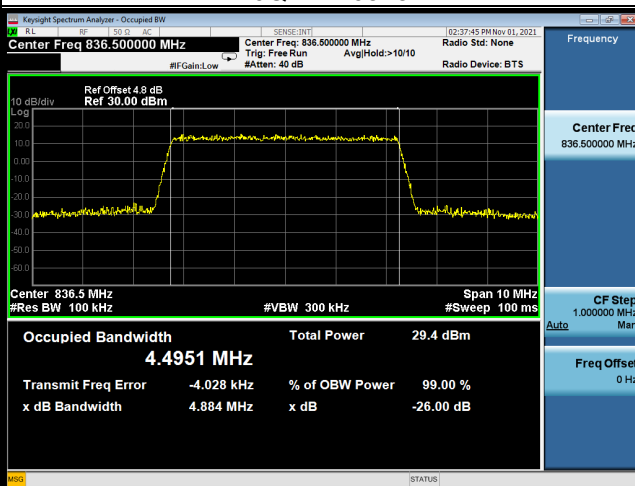
QPSK-20625



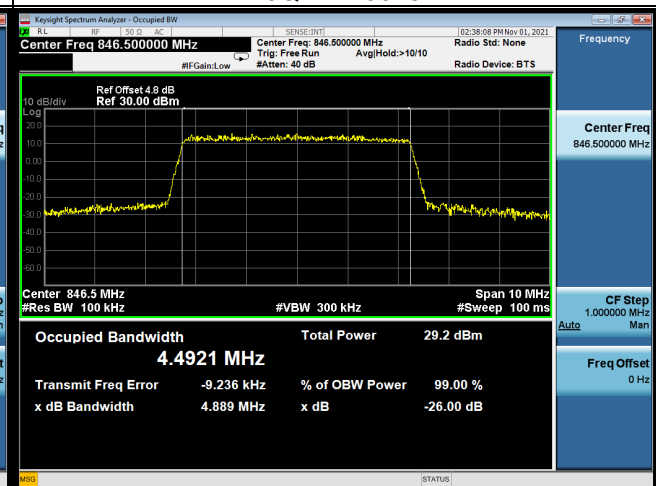
16QAM-20425



16QAM-20525

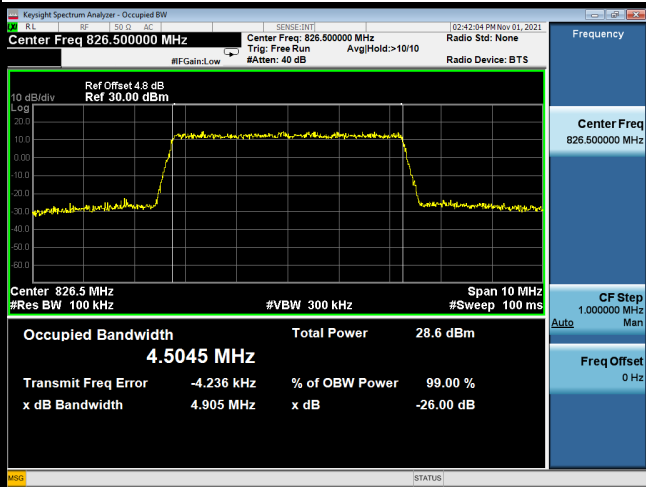


16QAM-20625

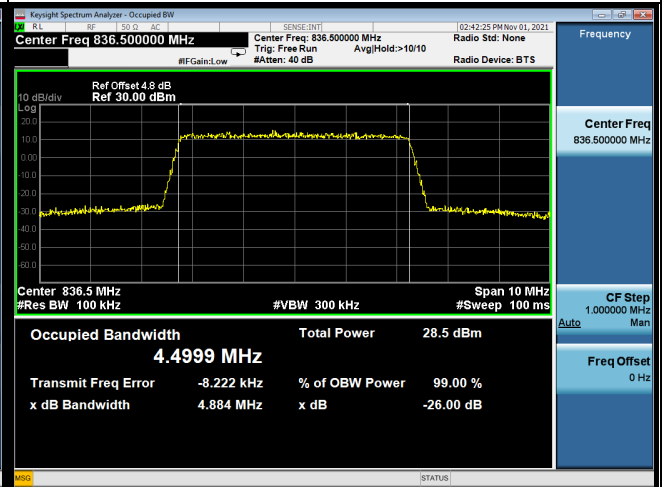


Spectrum Plot

64QAM-20425



64QAM-20525



64QAM-20625



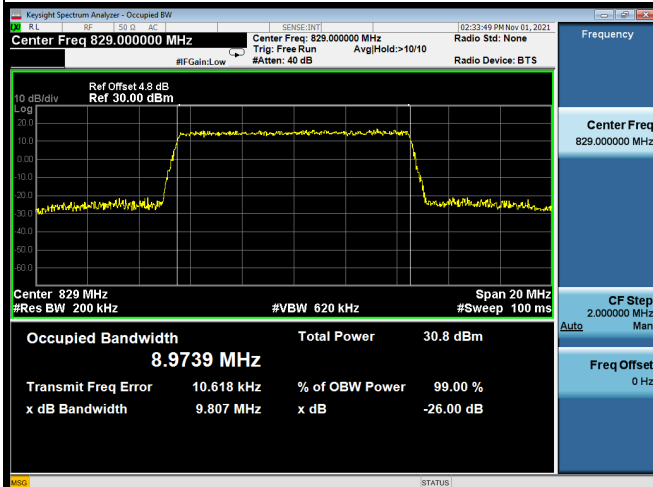
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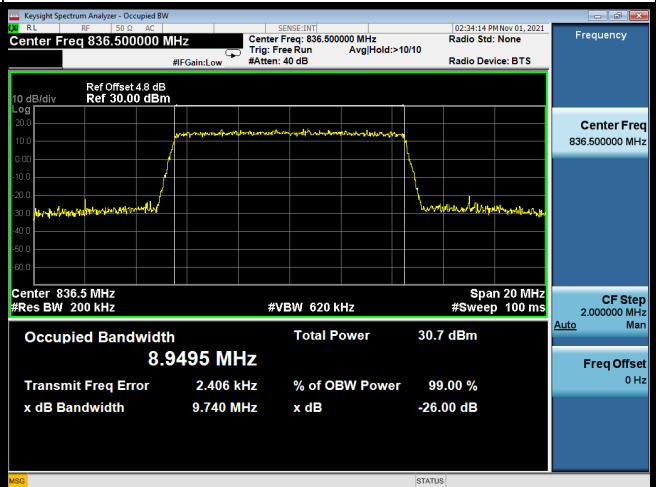
LTE Band 5_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20450	829.0	8.9739	20450	829.0	9.807
20525	836.5	8.9495	20525	836.5	9.740
20600	844.0	8.9644	20600	844.0	9.685
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20450	829.0	8.9752	20450	829.0	9.722
20525	836.5	8.9494	20525	836.5	9.687
20600	844.0	8.9592	20600	844.0	9.660
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
20450	829.0	8.9583	20450	829.0	9.727
20525	836.5	8.9542	20525	836.5	9.682
20600	844.0	8.9402	20600	844.0	9.706

Spectrum Plot

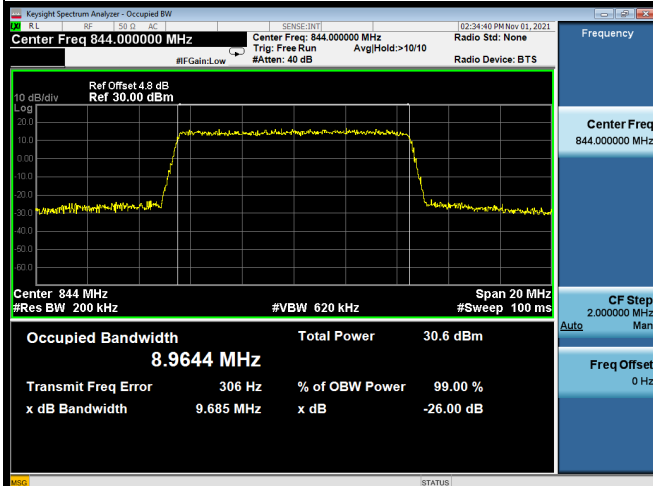
QPSK-20450



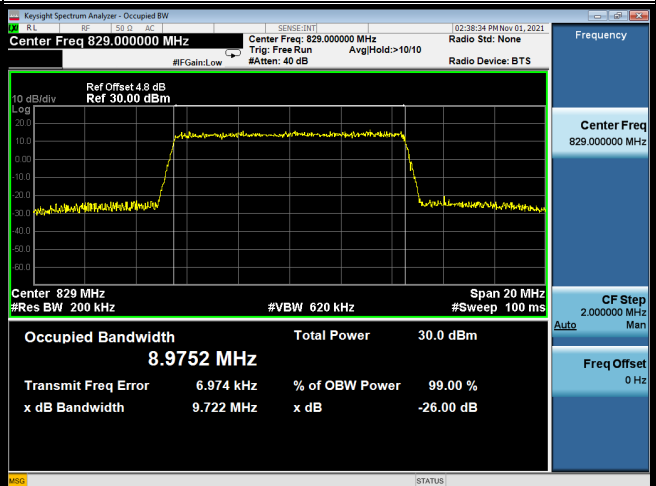
QPSK-20525



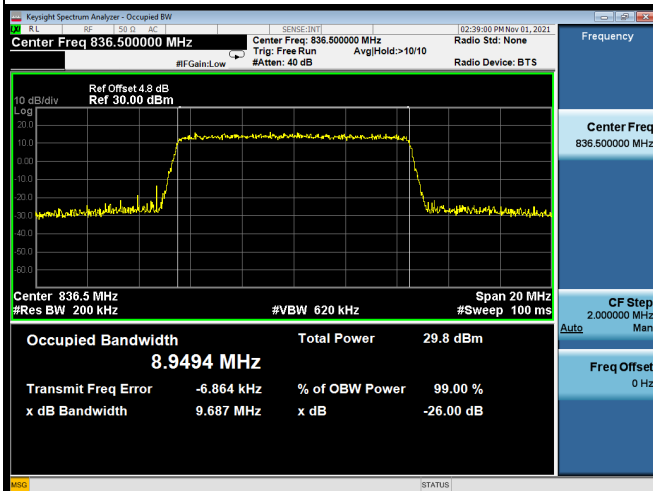
QPSK-20600



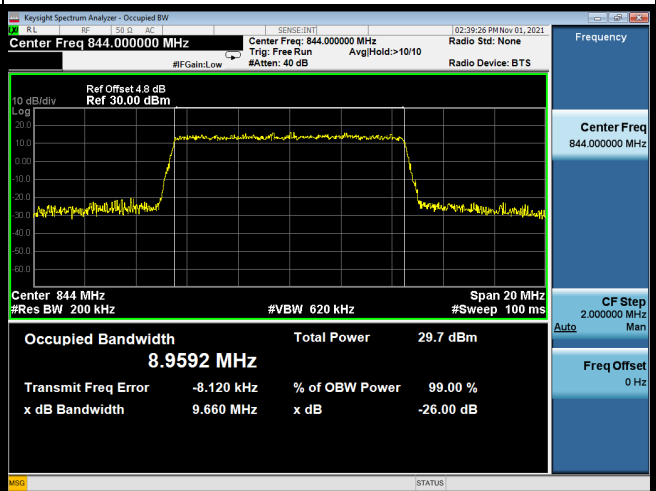
16QAM-20450



16QAM-20525

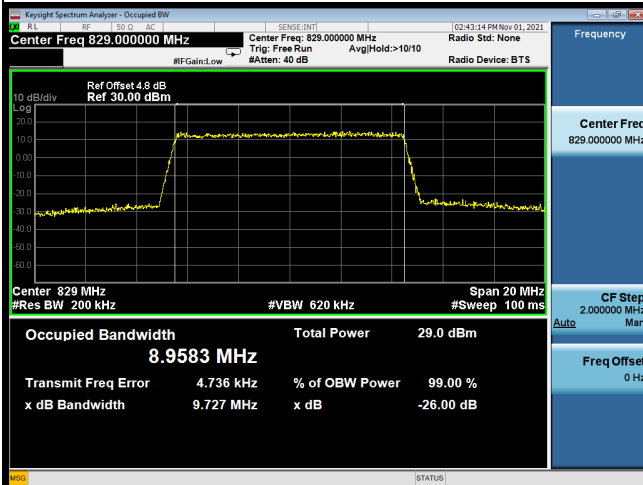


16QAM-20600

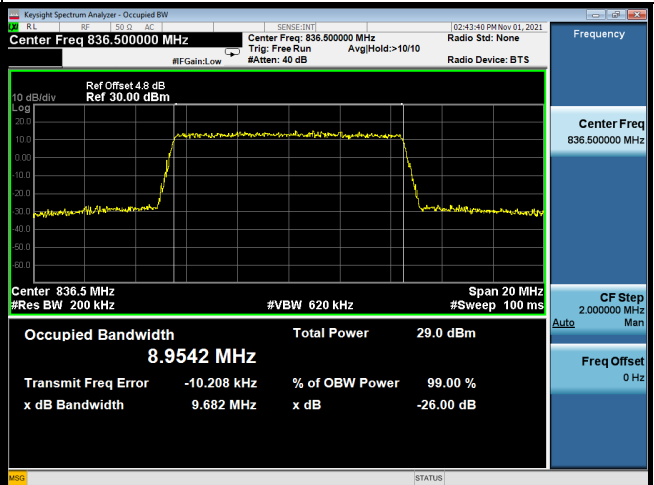


Spectrum Plot

64QAM-20450



64QAM-20525



64QAM-20600



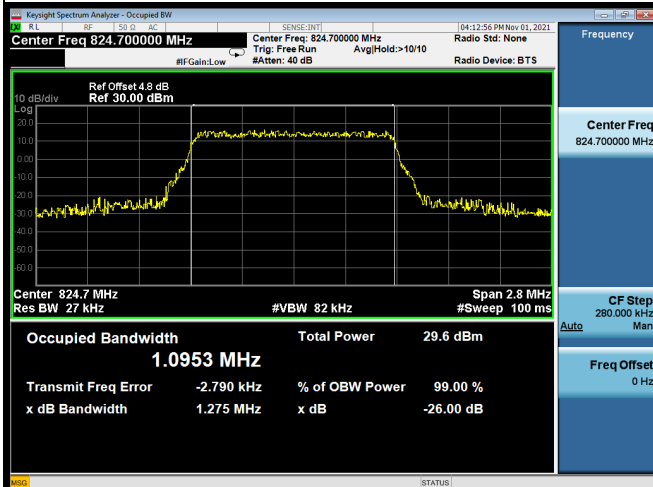
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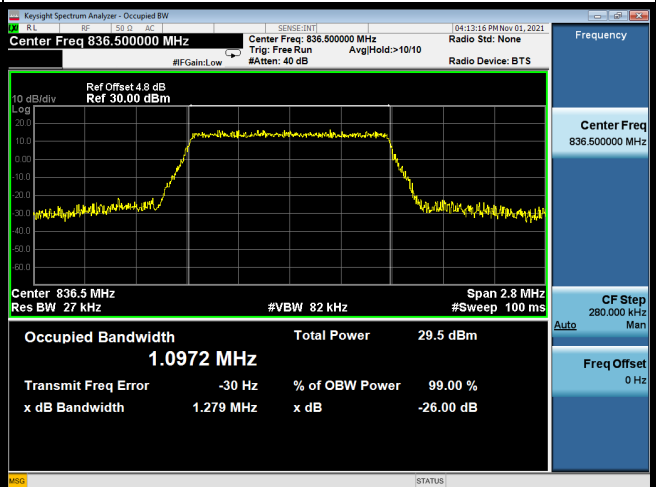
LTE Band 26_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26797	824.7	1.0953	26797	824.7	1.275
26915	836.5	1.0972	26915	836.5	1.279
27033	848.3	1.0862	27033	848.3	1.268
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26797	824.7	1.0877	26797	824.7	1.276
26915	836.5	1.0913	26915	836.5	1.276
27033	848.3	1.0985	27033	848.3	1.274
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26797	824.7	1.0865	26797	824.7	1.269
26915	836.5	1.0914	26915	836.5	1.266
27033	848.3	1.0853	27033	848.3	1.264

Spectrum Plot

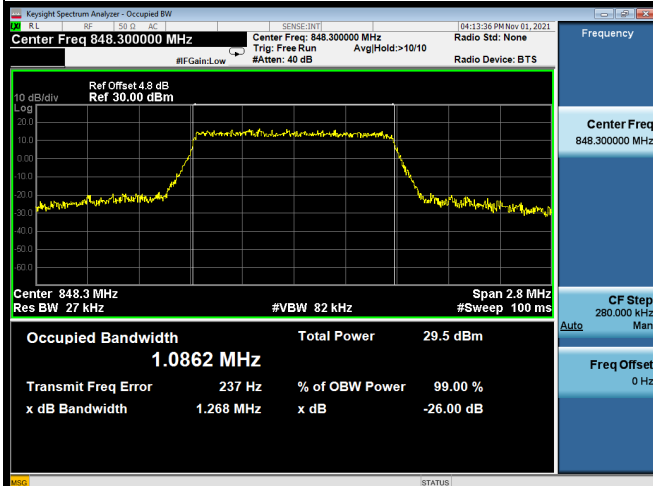
QPSK-26797



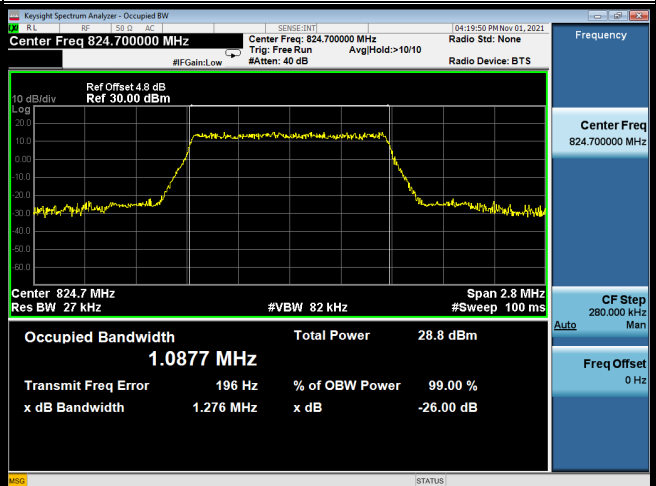
QPSK-26915



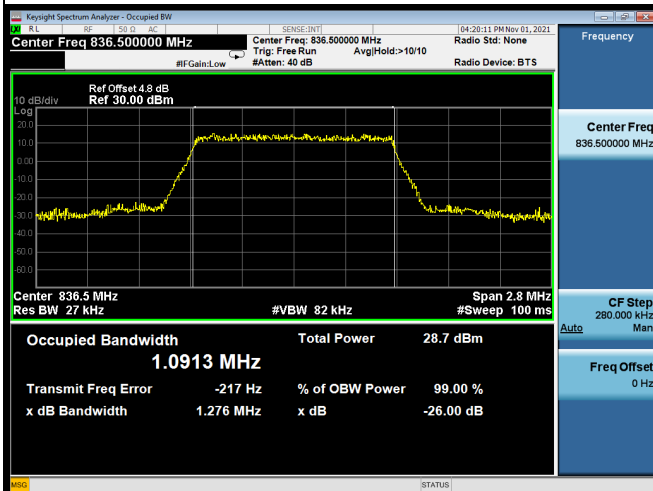
QPSK-27033



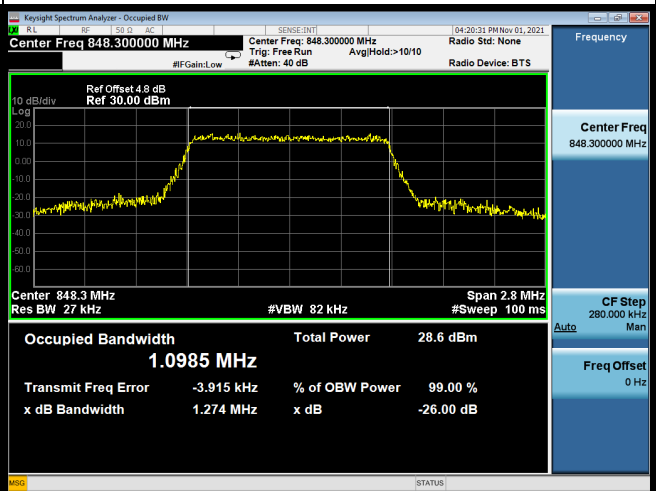
16QAM-26797



16QAM-26915

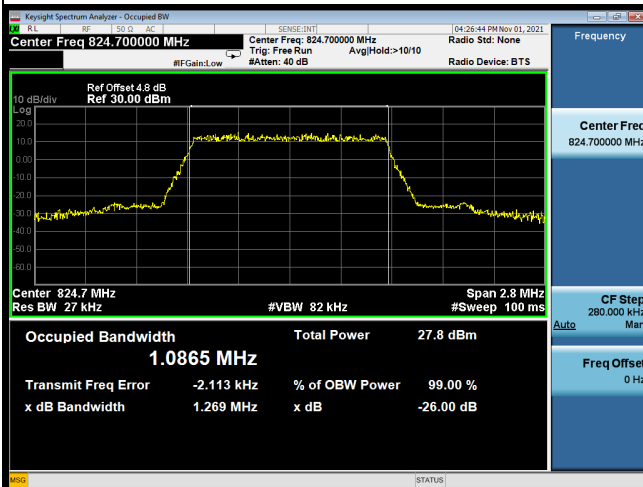


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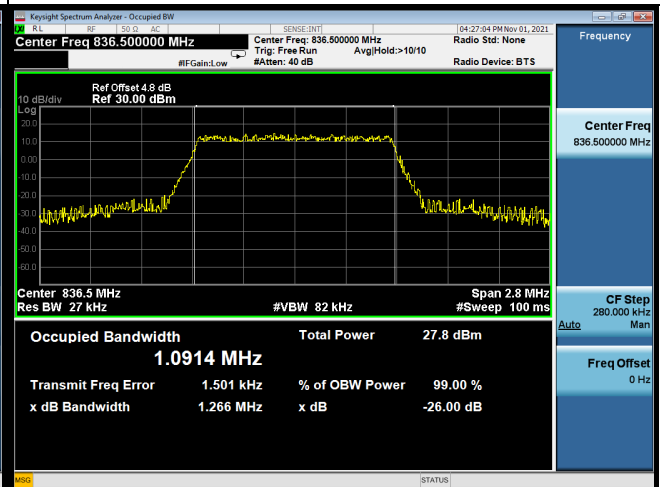


Spectrum Plot

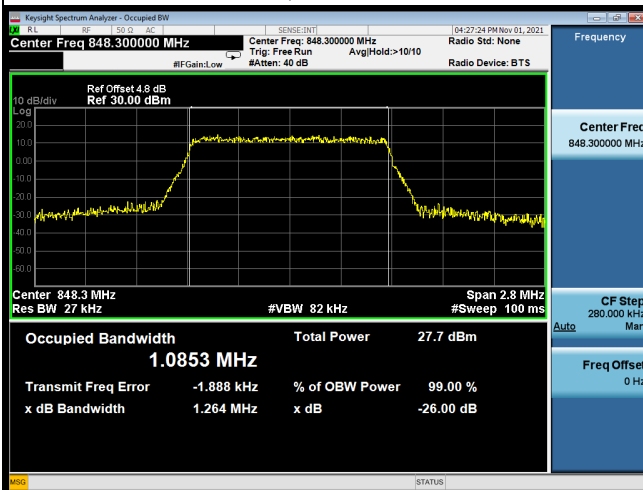
64QAM-26797



64QAM-26915



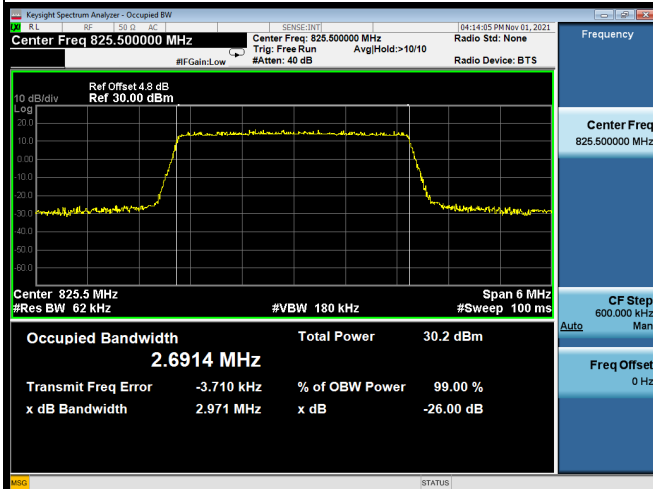
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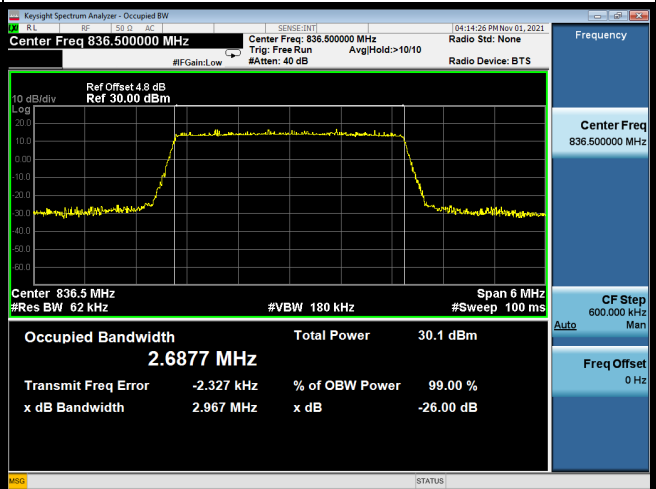
LTE Band 26_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26805	825.5	2.6914	26805	825.5	2.971
26915	836.5	2.6877	26915	836.5	2.967
27025	847.5	2.6837	27025	847.5	2.957
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26805	825.5	2.6915	26805	825.5	2.949
26915	836.5	2.6851	26915	836.5	2.950
27025	847.5	2.6849	27025	847.5	2.984
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26805	825.5	2.6922	26805	825.5	2.948
26915	836.5	2.6848	26915	836.5	2.950
27025	847.5	2.6885	27025	847.5	2.966

Spectrum Plot

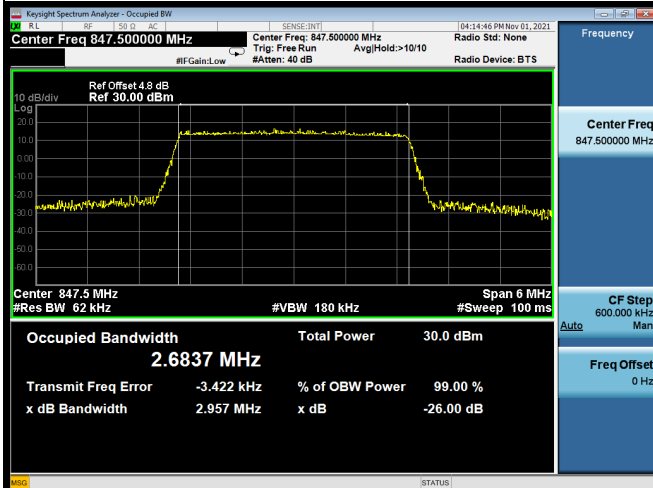
QPSK-26805



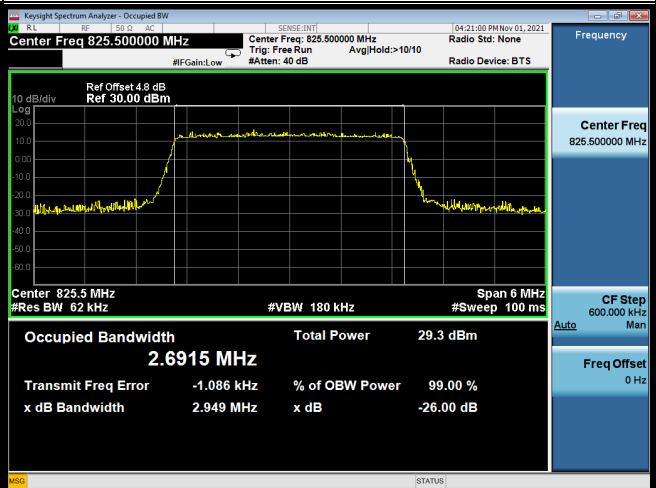
QPSK-26915



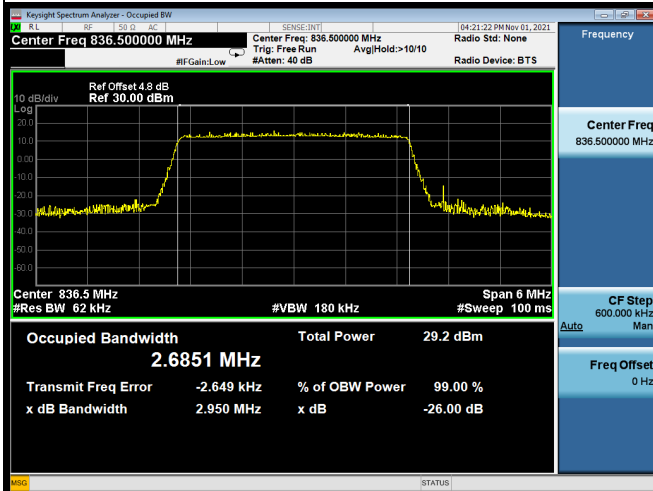
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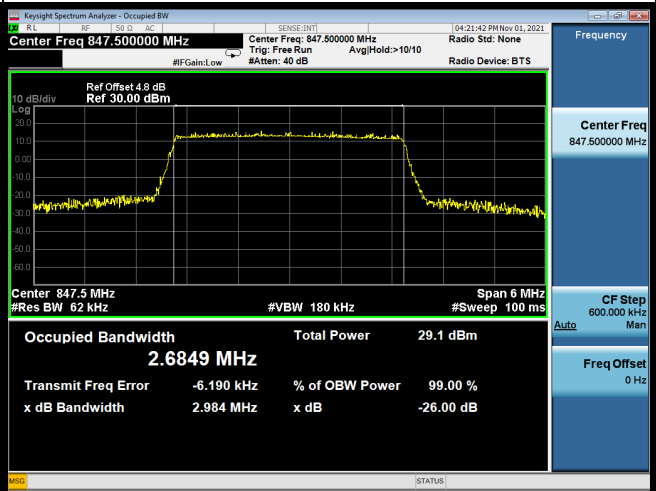
16QAM-26805



16QAM-26915

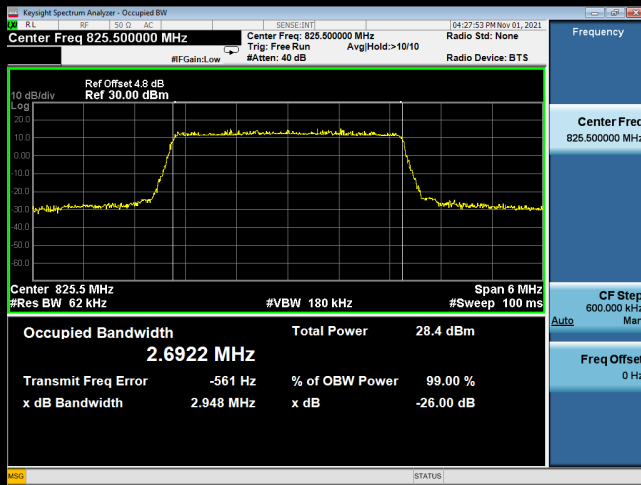


16QAM-27025

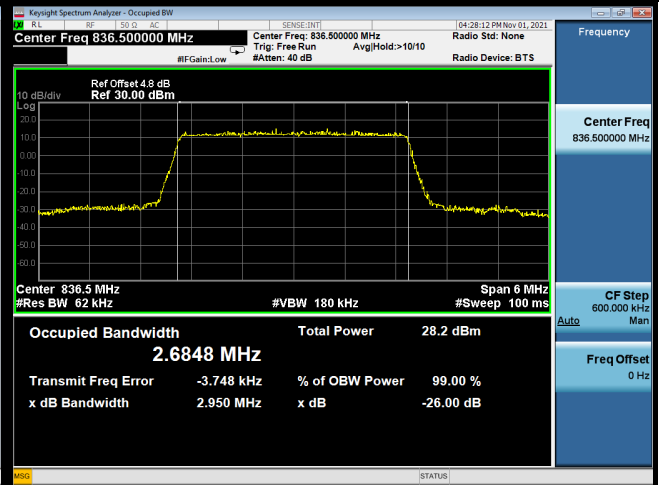


Spectrum Plot

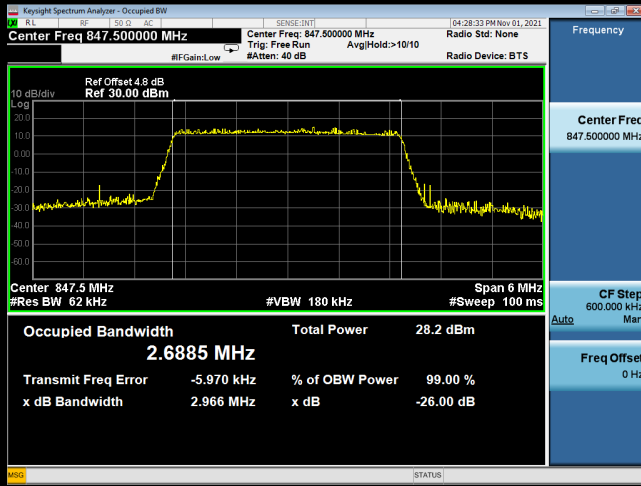
64QAM-26805



64QAM-26915



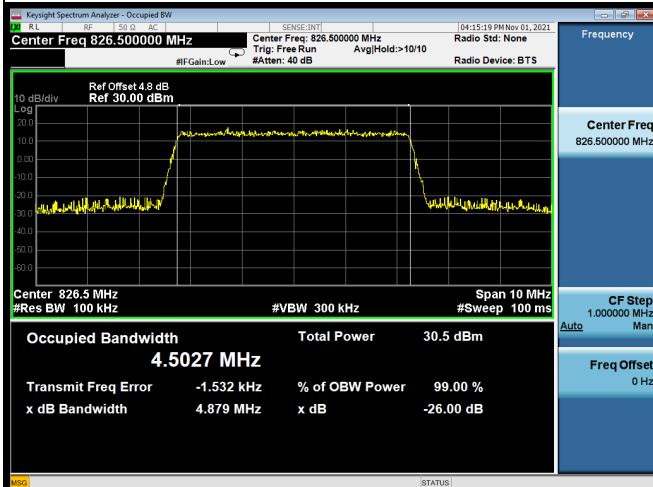
64QAM-27025



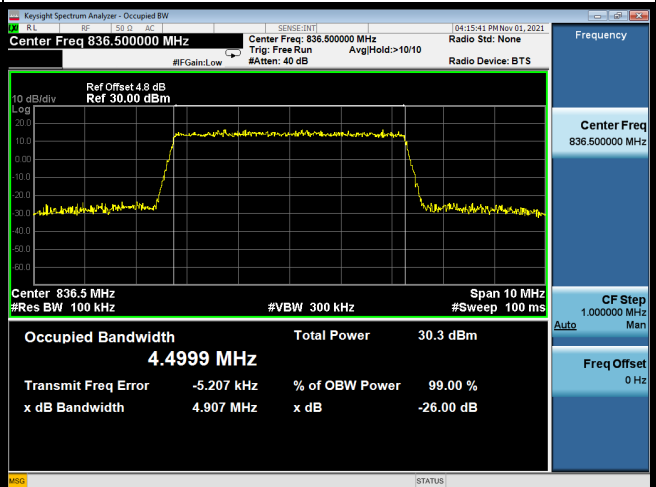
LTE Band 26_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26815	826.5	4.5027	26815	826.5	4.879
26915	836.5	4.4999	26915	836.5	4.907
27015	846.5	4.5077	27015	846.5	4.916
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26815	826.5	4.4953	26815	826.5	4.871
26915	836.5	4.4948	26915	836.5	4.866
27015	846.5	4.4843	27015	846.5	4.890
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26815	826.5	4.5009	26815	826.5	4.878
26915	836.5	4.4998	26915	836.5	4.913
27015	846.5	4.5004	27015	846.5	4.885

Spectrum Plot

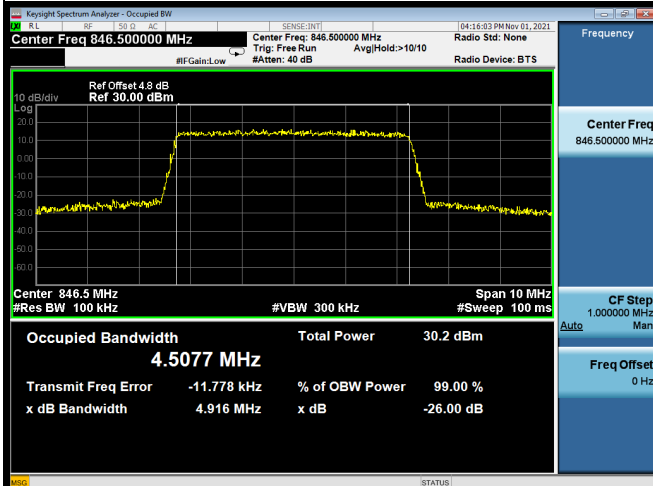
QPSK-26815



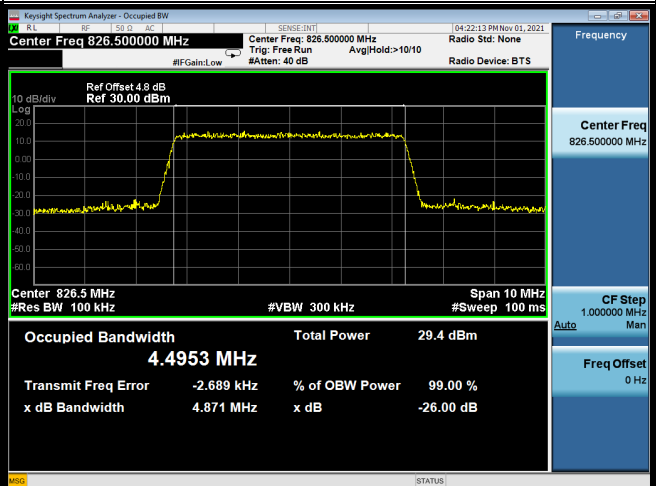
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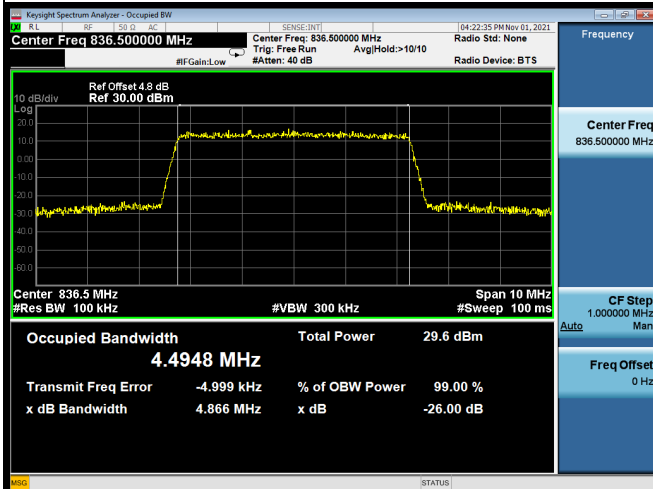
QPSK-27015



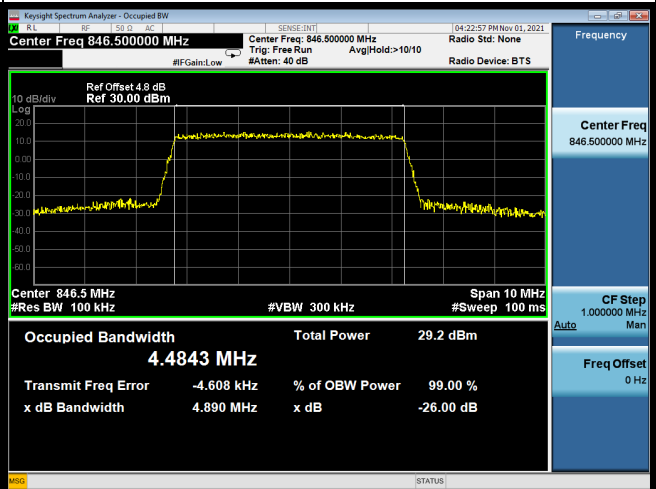
16QAM-26815



16QAM-26915



16QAM-27015

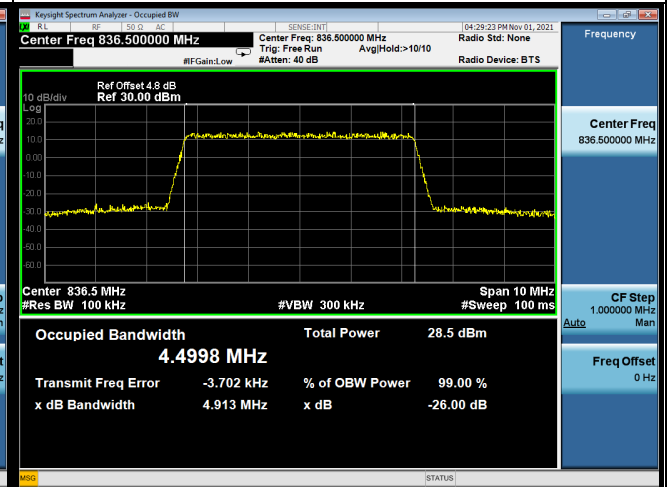


Spectrum Plot

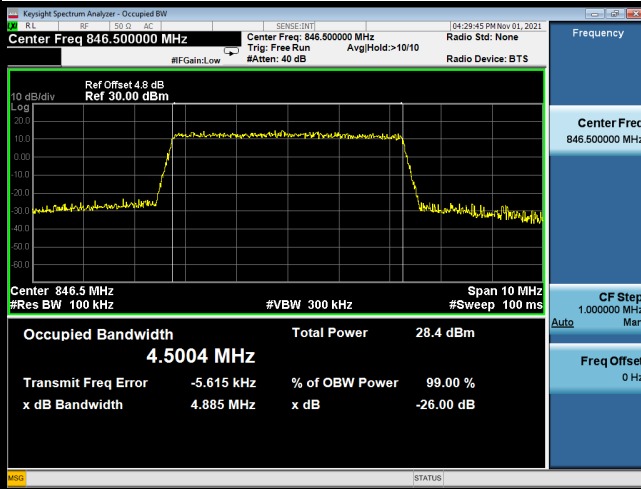
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64QAM-26915



64QAM-27015



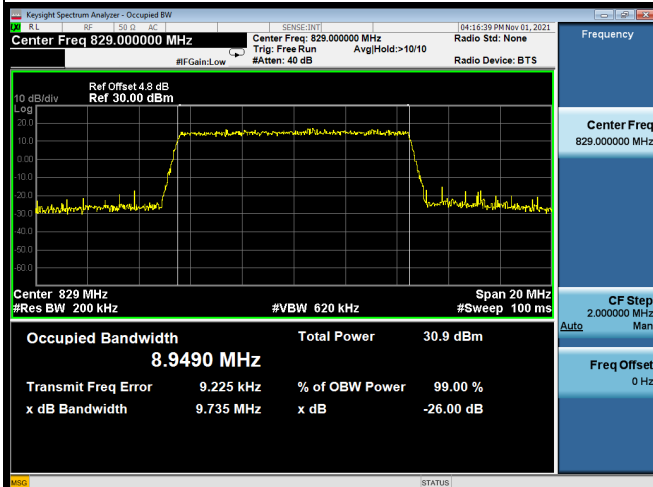
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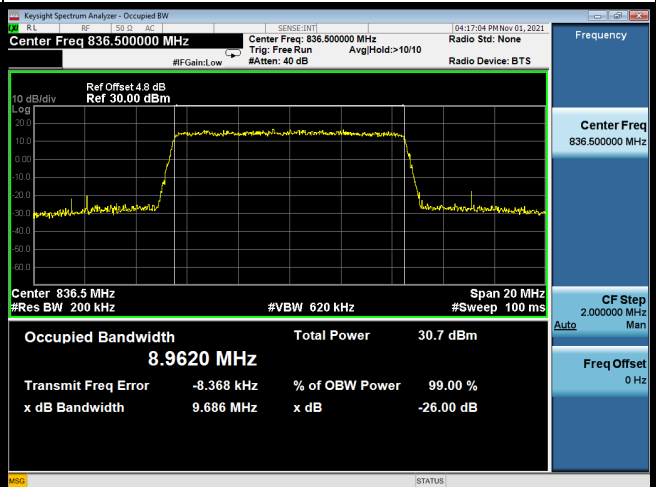
LTE Band 26_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	8.9490	26840	829	9.735
26915	836.5	8.9620	26915	836.5	9.686
26990	844	8.9609	26990	844	9.756
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	8.9677	26840	829	9.737
26915	836.5	8.9576	26915	836.5	9.696
26990	844	8.9586	26990	844	9.732
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	8.9781	26840	829	9.765
26915	836.5	8.9547	26915	836.5	9.742
26990	844	8.9576	26990	844	9.716

Spectrum Plot

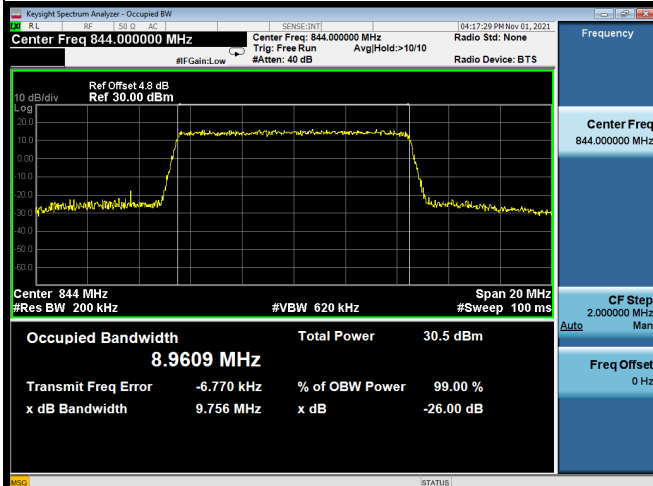
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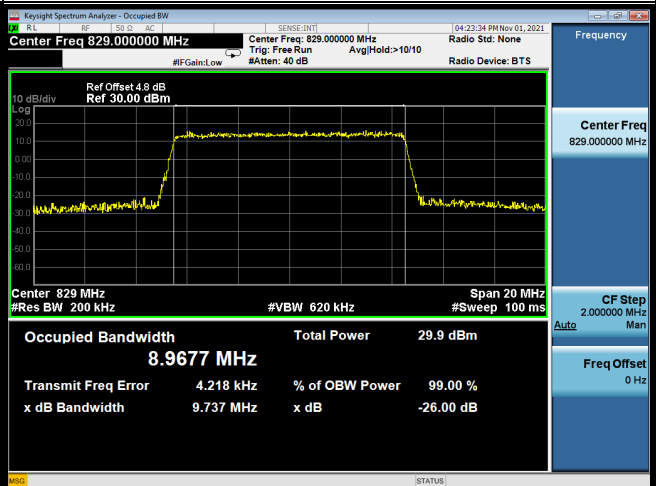
QPSK-26915



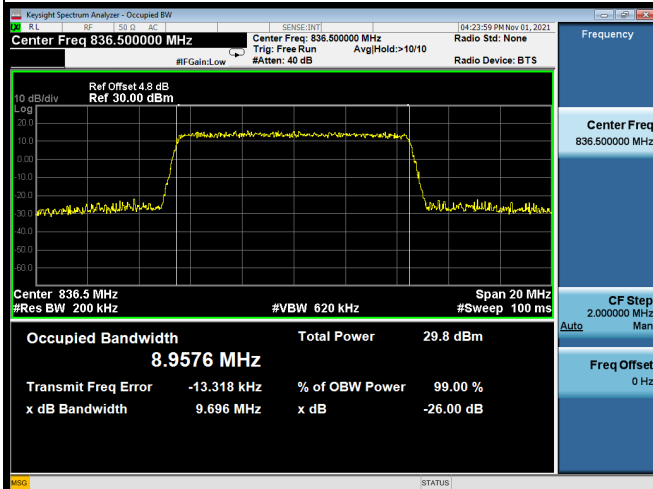
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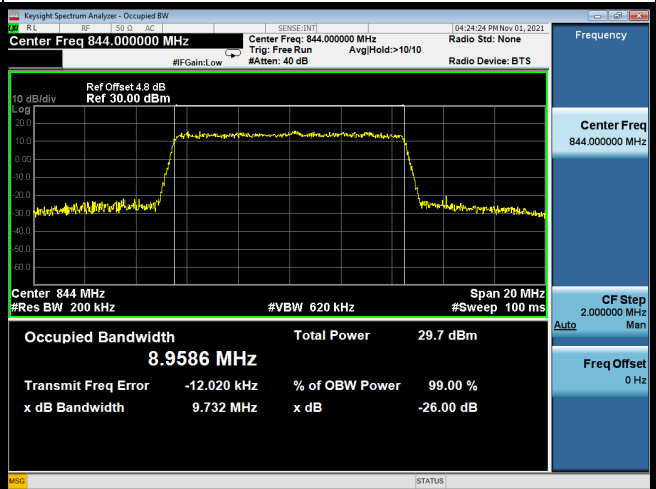
16QAM-26840



16QAM-26915

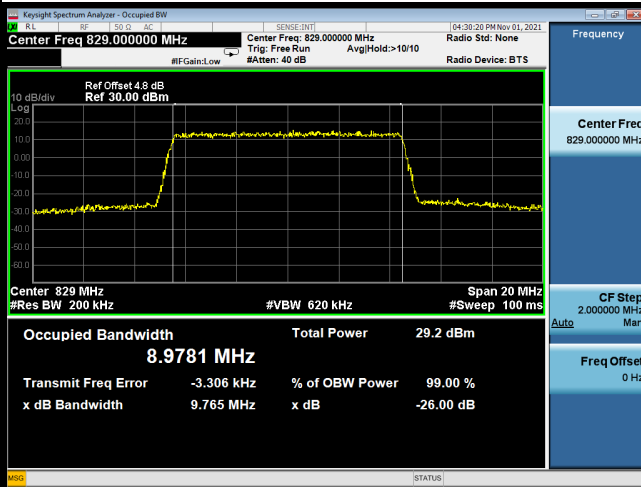


16QAM-26990

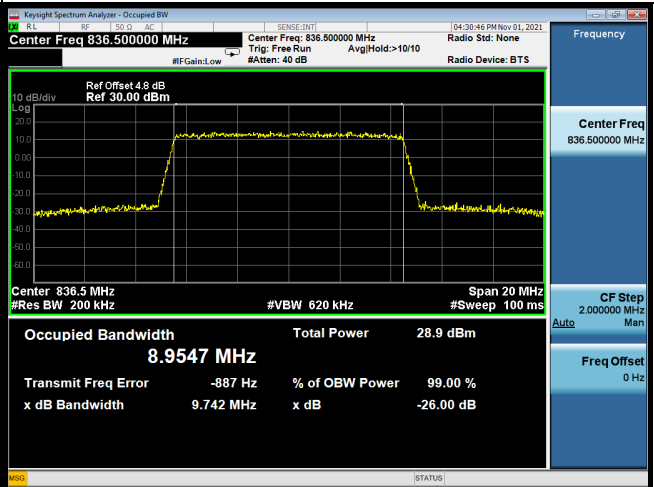


Spectrum Plot

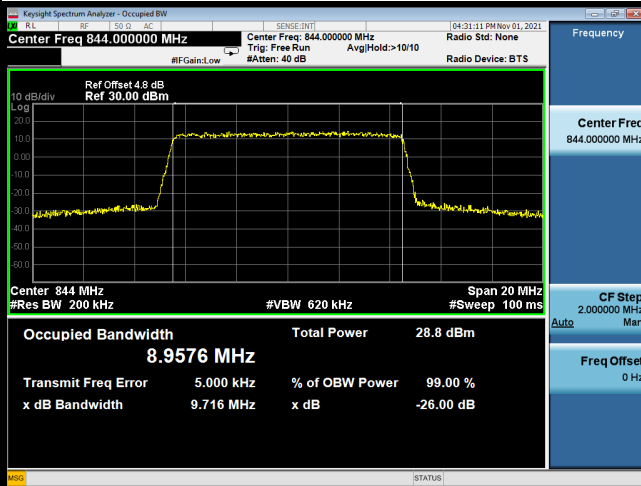
64QAM-26840



64QAM-26915



64QAM-26990



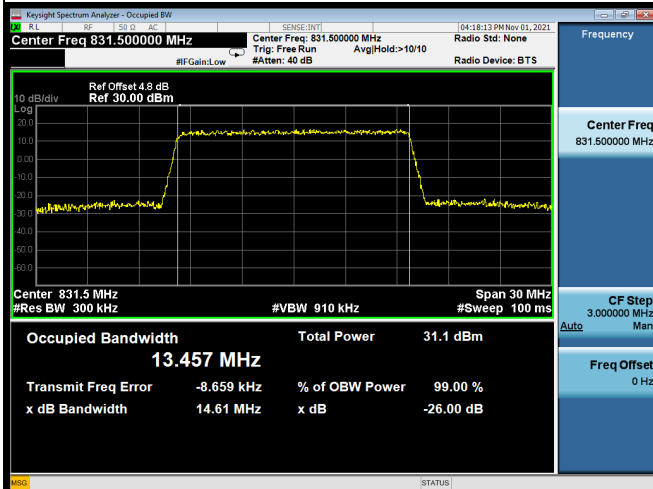
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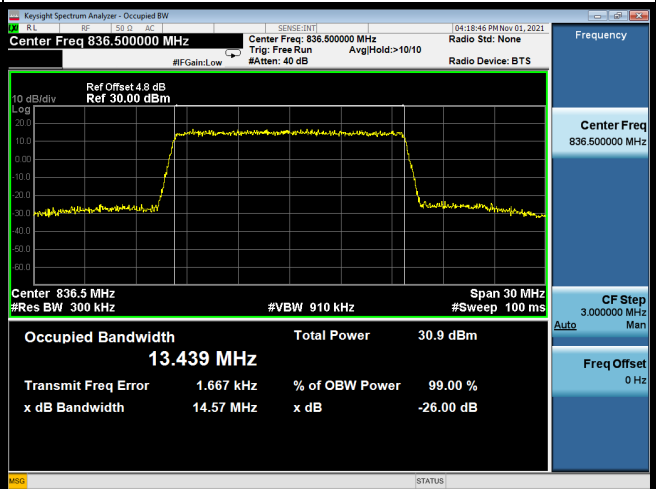
LTE Band 26_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.457	26865	831.5	14.61
26915	836.5	13.439	26915	836.5	14.57
26965	841.5	13.458	26965	841.5	14.57
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.429	26865	831.5	14.52
26915	836.5	13.415	26915	836.5	14.53
26965	841.5	13.462	26965	841.5	14.48
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.454	26865	831.5	14.54
26915	836.5	13.455	26915	836.5	14.45
26965	841.5	13.440	26965	841.5	14.50

Spectrum Plot

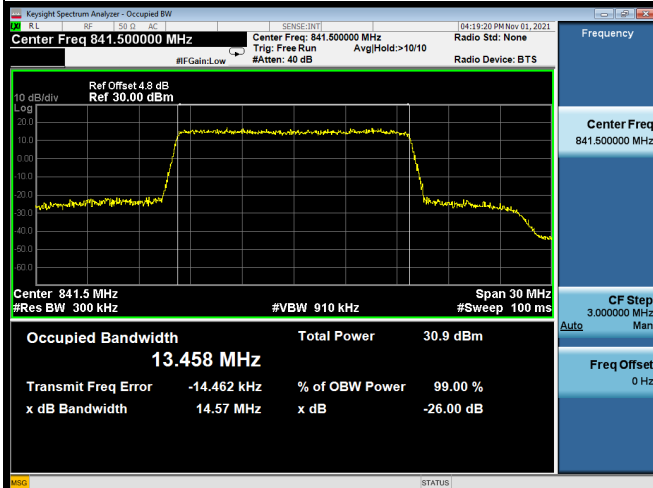
QPSK-26865



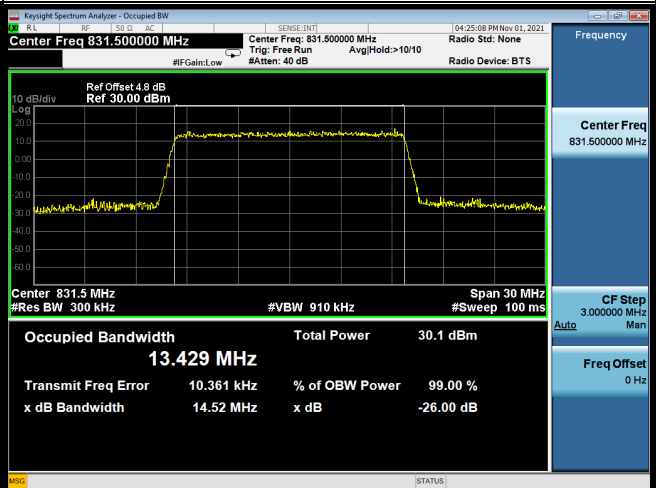
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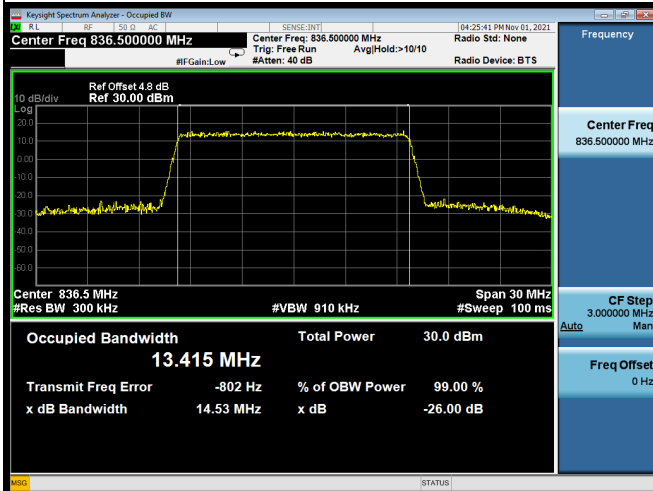
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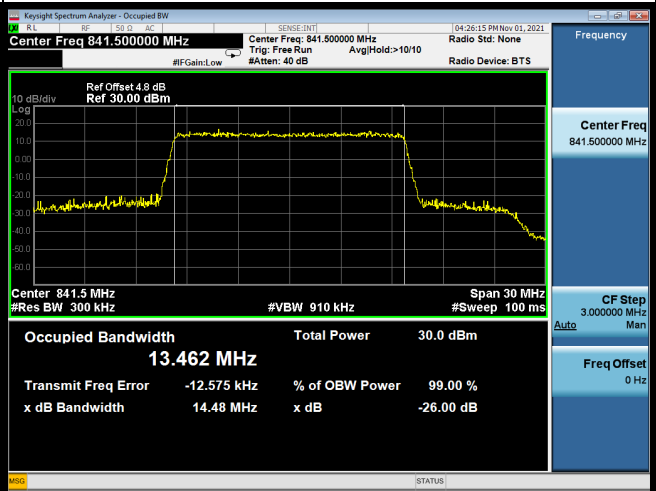
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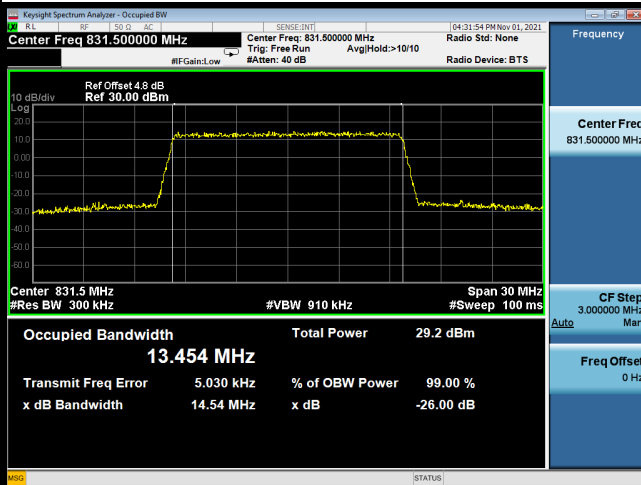


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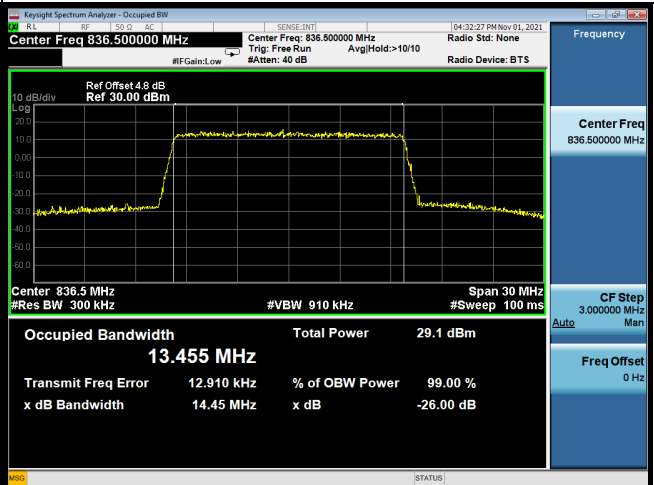


Spectrum Plot

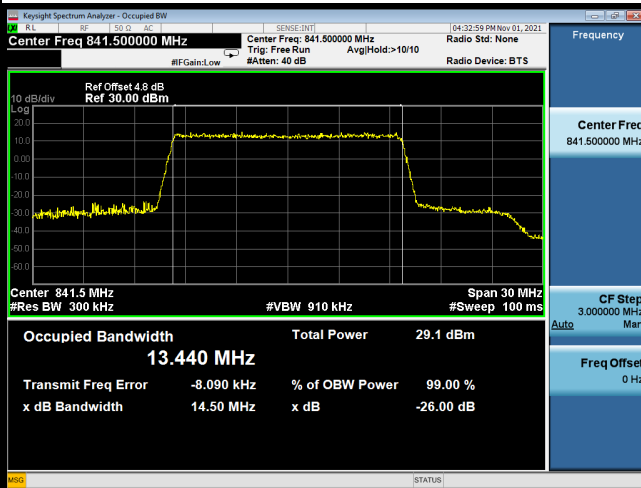
64QAM-26865



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64QAM-26965



APPENDIX C - CONDUCTED SPURIOUS EMISSIONS

