



RF TEST REPORT

Report No.: SET2020-05988

Product: Mobile Phone

FCC ID: 2AJZP-D450C1

Model No.: D450C1

Applicant: Mason America, Inc.

Address: 506 2nd Ave Suite 1400 Seattle Washington United States

Dates of Testing: 05/20/2020 — 06/10/2020

Issued by: CCIC Southern Testing Co., Ltd

Lab Location: Electronic Testing Building, No. 43 Shahe Road Xili Street,
Nanshan District Shenzhen, Guangdong 518055, China.

Tel: 86 755 26627338 **Fax:** 86 755 26627238

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Test Report

Product: Mobile Phone

Brand Name.....: MASON

Trade Name: MASON

Applicant: Mason America, Inc.

Applicant Address: 506 2nd Ave Suite 1400 Seattle Washington United States

Manufacturer: Mason America, Inc.

Manufacturer Address.....: 506 2nd Ave Suite 1400 Seattle Washington United States

Test Standards: 47 CFR Part 2/22/24/27

Test Result.....: PASS

Tested by

Vincent

2020.08.03

Vincent, Test Engineer

Reviewed by.....

Chris You

2020.08.03

Chris You, Senior Engineer

Approved by.....

Shuangwen Zhang

2020.08.03

Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2020.08.03	First edition



1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	Mobile Phone
EUT supports Radios application	LTE Band 2/4/5/7/12/17/41/66
Frequency Range	LTE Band 2: 1850.7MHz~1909.3MHz LTE Band 4: 1710.7MHz~1754.3MHz LTE Band 5: 824.7MHz~848.3MHz LTE Band 7: 2502.5MHz~2567.5MHz LTE Band 12: 699.7MHz~715.3MHz LTE Band 17: 706.5MHz~713.5MHz LTE Band 41: 2498.5MHz~2687.5MHz LTE Band 66: 1710.7MHz~1779.3MHz
Maximum Output Power to Antenna	LTE Band 2: 21.66dBm LTE Band 4: 21.86dBm LTE Band 5: 21.67dBm LTE Band 7: 21.65dBm LTE Band 12: 21.85dBm LTE Band 17: 21.81 dBm LTE Band 41: 21.45 dBm LTE Band 66: 21.36 dBm
Bandwidth	LTE Band 2: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5: 1.4MHz/3MHz/5MHz/10MHz LTE Band 7: 5MHz/10MHz/15MHz/20MHz LTE Band 12: 1.4MHz/3MHz/5MHz/10MHz LTE Band 17: 5MHz/10MHz LTE Band 41: 5MHz/10MHz/15MHz/20MHz LTE Band 66: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
Modulation Type	QPSK/16QAM/64QAM(downlink only)
Antenna Type	Internal Antenna
Power supply	DC 3.85V from battery DC 5V from adapter

1.2 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP(W)
LTE Band 2	QPSK	1.4	1M09G7D	—	0.138
LTE Band 2	16QAM	1.4	1M09W7D	—	0.097
LTE Band 2	QPSK	3	2M68G7D	—	0.136
LTE Band 2	16QAM	3	2M68W7D	—	0.100
LTE Band 2	QPSK	5	4M49G7D	—	0.136
LTE Band 2	16QAM	5	4M48W7D	—	0.098
LTE Band 2	QPSK	10	8M92G7D	0.003	0.122
LTE Band 2	16QAM	10	8M91W7D	—	0.109
LTE Band 2	QPSK	15	13M4G7D	—	0.152
LTE Band 2	16QAM	15	13M4W7D	—	0.094
LTE Band 2	QPSK	20	17M9G7D	—	0.142
LTE Band 2	16QAM	20	17M9W7D	—	0.118
LTE Band 4	QPSK	1.4	1M09G7D	—	0.131
LTE Band 4	16QAM	1.4	1M09W7D	—	0.086
LTE Band 4	QPSK	3	2M68G7D	—	0.128
LTE Band 4	16QAM	3	2M68W7D	—	0.086
LTE Band 4	QPSK	5	4M49G7D	—	0.130
LTE Band 4	16QAM	5	4M49W7D	—	0.102
LTE Band 4	QPSK	10	8M92G7D	0.003	0.137
LTE Band 4	16QAM	10	8M92W7D	—	0.080
LTE Band 4	QPSK	15	13M5G7D	—	0.125
LTE Band 4	16QAM	15	13M5W7D	—	0.081
LTE Band 4	QPSK	20	17M9G7D	—	0.138
LTE Band 4	16QAM	20	17M9W7D	—	0.080
LTE Band 5	QPSK	1.4	1M09G7D	—	0.157

LTE Band 5	16QAM	1.4	1M09W7D	—	0.122
LTE Band 5	QPSK	3	2M68G7D	—	0.143
LTE Band 5	16QAM	3	2M68W7D	—	0.121
LTE Band 5	QPSK	5	4M49G7D	—	0.146
LTE Band 5	16QAM	5	4M49W7D	—	0.118
LTE Band 5	QPSK	10	8M95G7D	-0.005	0.131
LTE Band 5	16QAM	10	8M94W7D	—	0.112
LTE Band 7	QPSK	5	4M48G7D	—	0.160
LTE Band 7	16QAM	5	4M49W7D	—	0.102
LTE Band 7	QPSK	10	8M93G7D	-0.004	0.158
LTE Band 7	16QAM	10	8M92W7D	—	0.107
LTE Band 7	QPSK	15	13M4G7D	—	0.164
LTE Band 7	16QAM	15	13M4W7D	—	0.107
LTE Band 7	QPSK	20	17M9G7D	—	0.151
LTE Band 7	16QAM	20	17M9W7D	—	0.193
LTE Band 12	QPSK	1.4	1M09G7D	—	0.152
LTE Band 12	16QAM	1.4	1M09W7D	—	0.117
LTE Band 12	QPSK	3	2M68G7D	—	0.149
LTE Band 12	16QAM	3	2M68W7D	—	0.133
LTE Band 12	QPSK	5	4M49G7D	—	0.150
LTE Band 12	16QAM	5	4M49W7D	—	0.118
LTE Band 12	QPSK	10	8M92G7D	0.006	0.175
LTE Band 12	16QAM	10	8M92W7D	—	0.135
LTE Band 17	QPSK	5	4M48G7D	—	0.129
LTE Band 17	16QAM	5	4M49W7D	—	0.083
LTE Band 17	QPSK	10	8M92G7D	-0.005	0.128
LTE Band 17	16QAM	10	8M92W7D	—	0.087
LTE Band 41	QPSK	5	4M48G7D	—	0.146
LTE Band 41	16QAM	5	4M48W7D	—	0.126

LTE Band 41	QPSK	10	8M91G7D	0.011	0.148
LTE Band 41	16QAM	10	8M92W7D	—	0.128
LTE Band 41	QPSK	15	13M4G7D	—	0.119
LTE Band 41	16QAM	15	13M4W7D	—	0.131
LTE Band 41	QPSK	20	17M9G7D	—	0.153
LTE Band 41	16QAM	20	17M9W7D	—	0.123
LTE Band 66	QPSK	1.4	1M09G7D	—	0.122
LTE Band 66	16QAM	1.4	1M09W7D	—	0.098
LTE Band 66	QPSK	3	2M68G7D	—	0.123
LTE Band 66	16QAM	3	2M68W7D	—	0.139
LTE Band 66	QPSK	5	4M48G7D	—	0.164
LTE Band 66	16QAM	5	4M48W7D	—	0.113
LTE Band 66	QPSK	10	8M93G7D	-0.029	0.130
LTE Band 66	16QAM	10	8M92W7D	—	0.112
LTE Band 66	QPSK	15	13M5G7D	—	0.102
LTE Band 66	16QAM	15	13M5W7D	—	0.083
LTE Band 66	QPSK	20	17M9G7D	—	0.104
LTE Band 66	16QAM	20	17M9W7D	—	0.085



1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part24, Part27, Part90, for the EUT FCC ID Certification:

1.47 CFR Part 2, 24(E), 27(F), 27(L), 27(H), 27(M)

2. ANSI/TIA/EIA-603-D-2010

3. FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Test detailed items/section required by FCC rules and results are as below:

No.	Section	IC Rule	Description	Limit	Result
1	2.1046	N/A	Conducted RF Output Power	Reporting Only	PASS
2	24.232(d)	RSS-130, 4.6 RSS-132, 5.4 RSS-133, 6.4 RSS-139, 6.5 RSS-199, 4.5	Peak to Average Radio	<13dB	PASS
3	27.50(b)(10) 27.50(c)(10)	RSS-130, 4.6	Effective Radiated Power(Band 12/17)	FCC:ERP< 3Watt IC:ERP< 3Watt	PASS
	27.50(h)(2) 24.232(c)	RSS-133,6.4 RSS-199,4.4	Effective Radiated Power(Band 2/7/41)	EIRP< 2Watt	PASS PASS
	27.50(d)(4)	RSS-139,6.5	Effective Radiated Power(Band 4/66)	EIRP< 1Watt	PASS
	22.913(a)(2)	RSS-132, 5.4	Effective Radiated Power(Band 5)	FCC:ERP< 7Watt IC: ERP< 11.5Watt	PASS
4	2.1049	RSS-GEN,6.7	Occupied Bandwidth	Reporting Only	PASS
5	2.1051 22.917(a) 24.238(b)	RSS-130,4.7 RSS-132,5.5 RSS-133,6.5	Conducted Band Edge (Band 2/4/5/12/17/66)	< 43+10log10 (P[watt])	PASS

	24.53(c) (2)(4) 27.53(g) 27.53(h)	RSS-139,6.6			
	2.1051 27.53(m)(4) 27.53(i)(4)	RSS-199,4.5	Conducted Band Edge(Band 7/41)	<5.5MHz: -13dBm ≥5.5MHz: -25dBm	PASS
6	2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h)	RSS-130,4.7 RSS-132,5.5 RSS-133,6.5 RSS-139,6.6	Conducted Spurious Emission (Band 2/4/5/12/17/66)	< 43+10log10 (P[watt])	PASS
	2.1051 27.53(m)(4) 27.53(i)(4)	RSS-199,4.5	Conducted Spurious Emission (Band 7/41)	< 55+10log10 (P[watt])	PASS
7	2.1053 22.917(a) 24.238(a) 27.53(g) 27.53(h)	RSS-130,4.7 RSS-132,5.5 RSS-133,6.5 RSS-139,6.6	Radiated Spurious Emission (Band 2/4/5/12/17/66)	< 43+10log10 (P[watt])	PASS
	2.1053 27.53(m)(4) 27.53(i)(4)	RSS-199,4.5	Radiated Spurious Emission (Band 7/41)	< 55+10log10 (P[watt])	PASS
8	2.1055, 22.355 24.235 27.54	RSS-130,4.5 RSS-132,5.3 RSS-133,6.4 RSS-139,6.4 RSS-199,4.3	Frequency Stability	<2.5ppm	PASS

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.



1.4 Test Configuration of Equipment Under Test

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth(MHz)						Modulation		RB#			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	17			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	41			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2				✓				✓	✓		✓	✓	✓	✓
	4				✓				✓	✓		✓	✓	✓	✓
	5				✓				✓	✓		✓	✓	✓	✓
	7				✓				✓	✓		✓	✓	✓	✓
	12				✓				✓	✓		✓	✓	✓	✓
	17				✓				✓	✓		✓	✓	✓	✓
26dB and 99% Bandwidth	41				✓				✓	✓		✓	✓	✓	✓
	66				✓				✓	✓		✓	✓	✓	✓
	2	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	5	✓	✓	✓	✓			✓	✓			✓		✓	
	7			✓	✓	✓	✓	✓	✓			✓		✓	
	12	✓	✓	✓	✓			✓	✓			✓		✓	
Conducted Band Edge	17			✓	✓			✓	✓			✓		✓	
	41			✓	✓	✓	✓	✓	✓			✓		✓	
	66	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
	7			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Conducted Spurious	12	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
	17			✓	✓			✓	✓	✓		✓	✓		✓
	41			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	2	✓						✓		✓			✓	✓	✓
	4														
	5														



Emission	4	✓						✓		✓			✓	✓	✓
	5	✓						✓		✓			✓	✓	✓
	7			✓				✓		✓			✓	✓	✓
	12	✓						✓		✓			✓	✓	✓
	17			✓				✓		✓			✓	✓	✓
	41			✓	✓	✓	✓	✓		✓			✓	✓	✓
	66	✓						✓		✓			✓	✓	✓
Frequency Stability	2				✓			✓				✓		✓	
	4				✓			✓				✓		✓	
	5				✓			✓				✓		✓	
	7				✓			✓				✓		✓	
	12				✓			✓				✓		✓	
	17				✓			✓				✓		✓	
	41				✓			✓				✓		✓	
66				✓			✓				✓		✓		
ERP/EIRP	2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓
	17			✓	✓			✓	✓	✓			✓	✓	✓
	41			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
66	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	
Radiated Spurious Emission	2	Worst case													
	4	Worst case													
	5	Worst case													
	7	Worst case													
	12	Worst case													
	17	Worst case													
	41	Worst case													
66	Worst case														
Note	1. The mark “ ✓ ” means that this configuration is chosen for testing. 2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 3. For E.R.P/E.I.R.P. measurement, the widest bandwidth and the bandwidth with the highest conducted power of each band is chosen for testing. Besides, the lowest bandwidth of each band is also measured for reporting only.														

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

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7dB and 10dB attenuator.

Example:

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 7 + 10 = 17 \text{ (dB)}\end{aligned}$$

1.6 Facilities and Accreditations

1.6.1 Test Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN5031

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until December 31, 2020.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Dec. 31, 2020.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

1.6.2 Test Environment Condition

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% - 60%
Atmospheric Pressure (kPa):	86KPa - 106KPa

2. 47 CFR PART 2 REQUIREMENTS

2.1 Conducted RF Output Power

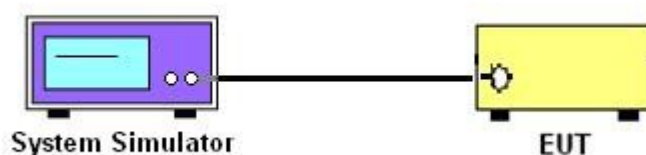
2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3 Test Setup



2.1.4 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.



2.1.5 Test Results

Please refer to Appendix A for detail

2.2 Peak to Average Ratio

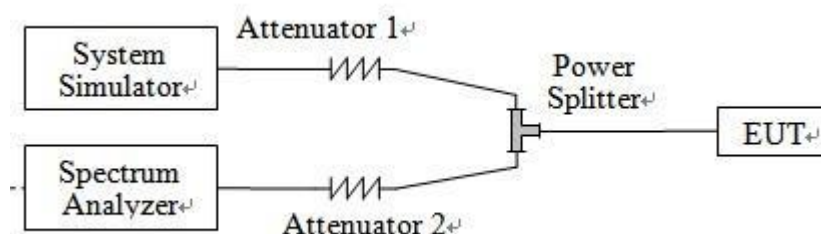
2.2.1 Definition

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

2.2.2 Measuring Instruments

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

2.2.3 Test Description



2.2.4 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.



2.2.5 Test Results of Peak-to-Average Ratio

Please refer to Appendix A for detail

2.3 99% Occupied Bandwidth and 26dB Bandwidth

2.3.1 Definition

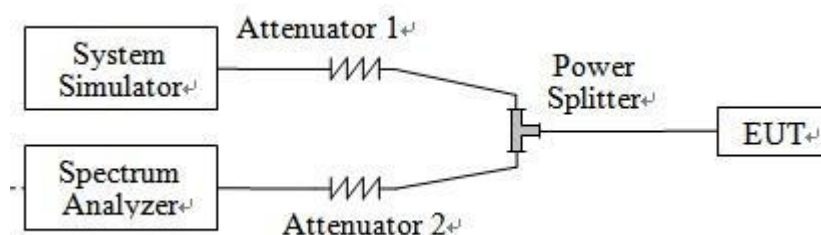
According to FCC section 2.1049, the occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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

2.3.2 Measuring Instruments

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

2.3.3 Test Setup



2.3.4 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.



2.3.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A for detail

2.4 Frequency Stability

2.4.1 Requirement

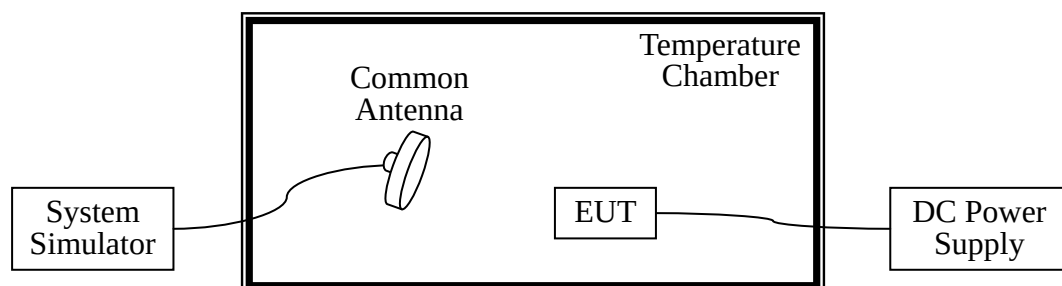
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3 Test Setup



2.4.4 Test Procedures

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized

before testing. 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.
4. The nominal, highest and lowest extreme voltages were tested, which are specified by the applicant; the normal temperature here used is 25°C.
5. The variation in frequency was measured for the worst case.



2.4.5 Test Result of Frequency Stability

Please refer to Appendix A for detail

2.5 Conducted Out of Band Emissions

2.5.1 Requirement

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

For Band 7:

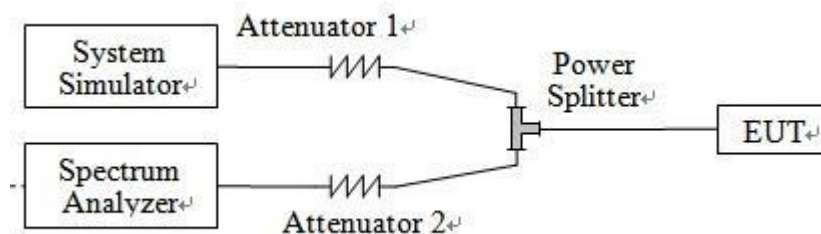
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

2.5.2 Measuring Instruments

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

2.5.3 Test Setup



2.5.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.

5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= -13\text{dBm}.$$
8. For Band 7
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$
$$= -25\text{dBm}.$$
9. For 9KHz to 30MHz: the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



2.5.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail

2.6 Conducted Band Edge

2.6.1 Description of Conducted Band Edge Measurement

22.917(a)

Out of band emissions. 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.

24.238(a)

For operations in the 1850 -1910 MHz band, the FCC limit is $43 + 10 \log_{10}(P [\text{Watts}])$ dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10 \log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

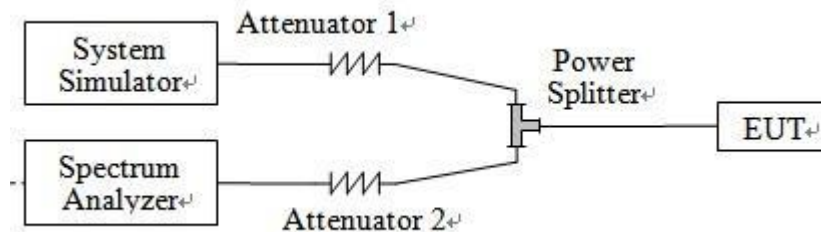
27.53m(4)

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

2.6.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3 Test Setup



2.6.4 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
9. For LTE Band 7 the other 40 dB, and 55 dB have additionally applied same calculation above.

2.6.5 Test Result of Conducted Band Edge

Please refer to Appendix A for detail

2.7 Transmitter Radiated Power (EIRP/ERP)

2.7.1 Requirement

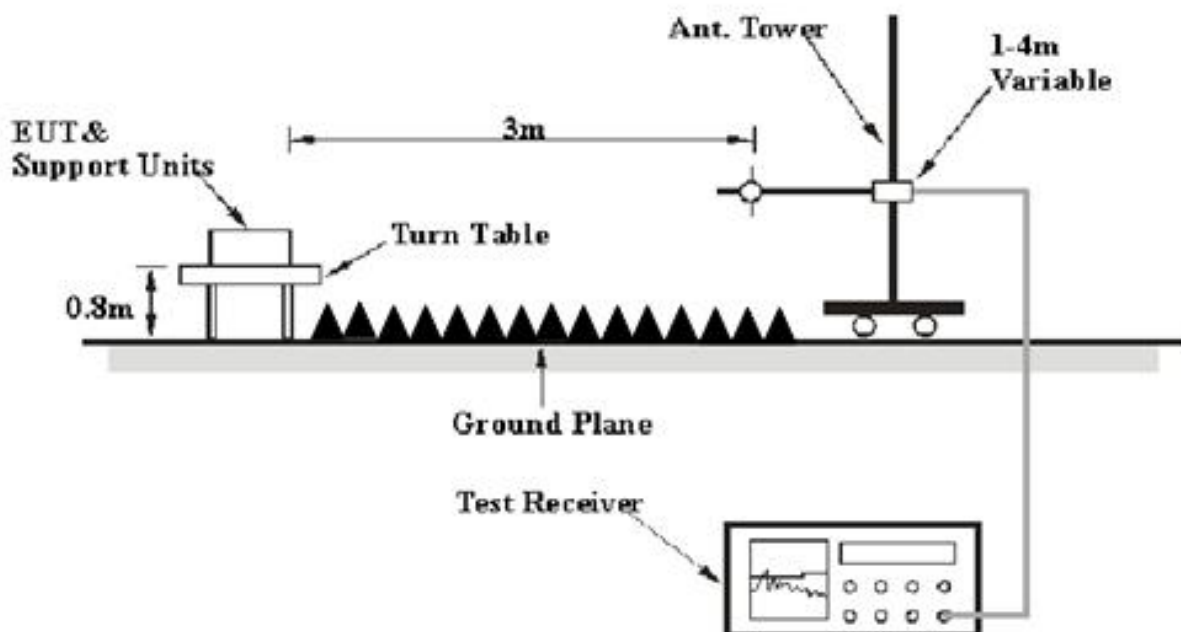
Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2/7 and 1 watt with LTE band 4

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup



2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal bandwidth per section 4.0 of KDB 971168 D01v03r01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

2.7.5 Test Result of ERP/EIRP

1. LTE Band 2 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
2	1.4	QPSK	1	2	1850.7	21.38	PASS
2	1.4	QPSK	1	5	1880	21.36	PASS
2	1.4	QPSK	3	2	1909.3	21.39	PASS
2	1.4	16QAM	1	0	1850.7	19.79	PASS
2	1.4	16QAM	1	2	1880	19.80	PASS
2	1.4	16QAM	3	2	1909.3	19.88	PASS
2	3	QPSK	1	7	1851.5	21.34	PASS
2	3	QPSK	1	14	1880	21.32	PASS
2	3	QPSK	1	0	1908.5	21.35	PASS
2	3	16QAM	1	14	1851.5	19.94	PASS
2	3	16QAM	1	0	1880	19.98	PASS
2	3	16QAM	1	0	1908.5	20.01	PASS
2	5	QPSK	1	0	1852.5	21.33	PASS
2	5	QPSK	1	0	1880	21.27	PASS
2	5	QPSK	1	24	1907.5	21.34	PASS
2	5	16QAM	1	12	1852.5	19.92	PASS
2	5	16QAM	1	0	1880	19.85	PASS
2	5	16QAM	1	12	1907.5	19.93	PASS
2	10	QPSK	1	0	1855	20.86	PASS
2	10	QPSK	1	0	1880	20.75	PASS
2	10	QPSK	1	49	1905	20.84	PASS
2	10	16QAM	1	0	1855	20.35	PASS
2	10	16QAM	1	0	1880	20.33	PASS
2	10	16QAM	1	24	1905	20.36	PASS
2	15	QPSK	1	0	1857.5	21.72	PASS
2	15	QPSK	1	0	1880	21.82	PASS
2	15	QPSK	1	74	1902.5	21.76	PASS
2	15	16QAM	1	0	1857.5	19.60	PASS
2	15	16QAM	1	0	1880	19.63	PASS
2	15	16QAM	1	74	1902.5	19.71	PASS
2	20	QPSK	1	0	1860	21.51	PASS
2	20	QPSK	1	0	1880	21.45	PASS
2	20	QPSK	1	0	1900	21.44	PASS
2	20	16QAM	1	0	1860	20.69	PASS
2	20	16QAM	1	0	1880	20.64	PASS
2	20	16QAM	1	49	1900	20.71	PASS

2. LTE Band 4 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
4	1.4	QPSK	1	0	1710.7	21.08	PASS
4	1.4	QPSK	1	0	1732.5	21.16	PASS
4	1.4	QPSK	1	0	1754.3	21.09	PASS
4	1.4	16QAM	1	0	1710.7	19.29	PASS
4	1.4	16QAM	1	0	1732.5	19.20	PASS
4	1.4	16QAM	1	0	1754.3	19.34	PASS
4	3	QPSK	1	0	1711.5	21.07	PASS
4	3	QPSK	1	0	1732.5	20.96	PASS
4	3	QPSK	1	0	1753.5	21.08	PASS
4	3	16QAM	1	14	1711.5	19.29	PASS
4	3	16QAM	1	14	1732.5	19.34	PASS
4	3	16QAM	1	14	1753.5	19.27	PASS
4	5	QPSK	1	24	1712.5	21.13	PASS
4	5	QPSK	1	24	1732.5	21.02	PASS
4	5	QPSK	1	24	1752.5	21.08	PASS
4	5	16QAM	1	24	1712.5	20.07	PASS
4	5	16QAM	1	0	1732.5	20.00	PASS
4	5	16QAM	1	0	1752.5	20.08	PASS
4	10	QPSK	1	0	1715	21.33	PASS
4	10	QPSK	1	0	1732.5	21.31	PASS
4	10	QPSK	1	0	1750	21.36	PASS
4	10	16QAM	1	24	1715	19.00	PASS
4	10	16QAM	1	0	1732.5	18.93	PASS
4	10	16QAM	1	24	1750	19.01	PASS
4	15	QPSK	1	74	1717.5	20.91	PASS
4	15	QPSK	1	74	1732.5	20.83	PASS
4	15	QPSK	1	0	1747.5	20.97	PASS
4	15	16QAM	1	74	1717.5	19.04	PASS
4	15	16QAM	1	0	1732.5	19.09	PASS
4	15	16QAM	1	0	1747.5	18.97	PASS
4	20	QPSK	1	0	1720	21.31	PASS
4	20	QPSK	1	0	1732.5	21.38	PASS
4	20	QPSK	1	0	1745	21.40	PASS
4	20	16QAM	1	0	1720	19.01	PASS
4	20	16QAM	1	0	1732.5	18.94	PASS
4	20	16QAM	1	0	1745	19.02	PASS

3. LTE Band 5 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
5	1.4	QPSK	1	5	824.7	21.95	PASS
5	1.4	QPSK	1	2	836.5	21.65	PASS
5	1.4	QPSK	1	5	848.3	21.45	PASS
5	1.4	16QAM	1	5	824.7	20.80	PASS
5	1.4	16QAM	1	2	836.5	20.73	PASS
5	1.4	16QAM	1	0	848.3	20.87	PASS
5	3	QPSK	1	5	825.5	21.35	PASS
5	3	QPSK	1	5	836.5	21.54	PASS
5	3	QPSK	1	5	848.3	21.22	PASS
5	3	16QAM	1	5	825.5	20.80	PASS
5	3	16QAM	1	14	836.5	20.73	PASS
5	3	16QAM	1	5	848.3	20.81	PASS
5	5	QPSK	1	14	826.5	21.25	PASS
5	5	QPSK	1	14	836.5	21.64	PASS
5	5	QPSK	1	14	846.5	21.58	PASS
5	5	16QAM	1	12	826.5	20.60	PASS
5	5	16QAM	1	24	836.5	20.73	PASS
5	5	16QAM	1	0	846.5	20.67	PASS
5	10	QPSK	1	24	829	21.17	PASS
5	10	QPSK	1	24	836.5	21.12	PASS
5	10	QPSK	1	24	844	21.03	PASS
5	10	16QAM	1	24	829	20.33	PASS
5	10	16QAM	1	49	836.5	20.15	PASS
5	10	16QAM	1	24	844	20.48	PASS

4. LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
7	5	QPSK	1	12	2502.5	21.93	PASS
7	5	QPSK	1	0	2535	21.97	PASS
7	5	QPSK	1	24	2567.5	22.03	PASS
7	5	16QAM	1	24	2502.5	20.09	PASS
7	5	16QAM	1	24	2535	20.02	PASS
7	5	16QAM	1	0	2567.5	20.07	PASS
7	10	QPSK	1	24	2505	22.00	PASS
7	10	QPSK	1	49	2535	21.95	PASS
7	10	QPSK	1	24	2565	21.90	PASS
7	10	16QAM	1	24	2505	20.31	PASS
7	10	16QAM	1	49	2535	20.24	PASS
7	10	16QAM	1	24	2565	20.22	PASS
7	15	QPSK	1	37	2507.5	22.12	PASS
7	15	QPSK	1	74	2535	22.14	PASS
7	15	QPSK	1	0	2562.5	22.08	PASS
7	15	16QAM	1	37	2507.5	20.25	PASS
7	15	16QAM	1	18	2535	20.30	PASS
7	15	16QAM	1	0	2562.5	20.28	PASS
7	20	QPSK	1	0	2510	21.72	PASS
7	20	QPSK	1	0	2535	21.80	PASS
7	20	QPSK	1	0	2560	21.78	PASS
7	20	16QAM	1	0	2510	22.83	PASS
7	20	16QAM	1	0	2535	22.77	PASS
7	20	16QAM	1	0	2560	22.86	PASS

5. LTE Band 12 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
12	1.4	QPSK	3	0	699.7	21.74	PASS
12	1.4	QPSK	3	2	707.5	21.82	PASS
12	1.4	QPSK	1	2	715.3	21.75	PASS
12	1.4	16QAM	3	2	699.7	20.65	PASS
12	1.4	16QAM	3	2	707.5	20.69	PASS
12	1.4	16QAM	3	2	715.3	20.70	PASS
12	3	QPSK	1	0	700.5	21.68	PASS
12	3	QPSK	1	0	707.5	21.72	PASS
12	3	QPSK	1	7	714.5	21.69	PASS
12	3	16QAM	1	14	700.5	21.20	PASS
12	3	16QAM	1	14	707.5	21.12	PASS
12	3	16QAM	1	14	714.5	21.23	PASS
12	5	QPSK	1	12	701.5	21.74	PASS
12	5	QPSK	1	24	707.5	21.68	PASS
12	5	QPSK	1	24	713.5	21.76	PASS
12	5	16QAM	1	24	701.5	20.60	PASS
12	5	16QAM	1	0	707.5	20.73	PASS
12	5	16QAM	1	0	713.5	20.66	PASS
12	10	QPSK	1	24	704	22.35	PASS
12	10	QPSK	1	0	707.5	22.43	PASS
12	10	QPSK	1	24	711	22.32	PASS
12	10	16QAM	1	24	704	21.26	PASS
12	10	16QAM	1	0	707.5	21.29	PASS
12	10	16QAM	1	24	711	21.25	PASS

6. LTE Band 17 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
17	5	QPSK	1	24	706.5	21.01	PASS
17	5	QPSK	1	24	710	21.05	PASS
17	5	QPSK	1	12	713.5	21.11	PASS
17	5	16QAM	1	24	706.5	19.17	PASS
17	5	16QAM	1	24	710	19.10	PASS
17	5	16QAM	1	12	713.5	19.15	PASS
17	10	QPSK	1	49	709	21.08	PASS
17	10	QPSK	1	49	710	21.03	PASS
17	10	QPSK	1	49	711	20.98	PASS
17	10	16QAM	1	24	709	19.39	PASS
17	10	16QAM	1	49	710	19.32	PASS
17	10	16QAM	1	24	711	19.30	PASS

7.LTE Band 41 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
41	5	QPSK	1	0	2498.5	21.63	PASS
41	5	QPSK	1	0	2593.0	21.65	PASS
41	5	QPSK	1	0	2687.5	21.62	PASS
41	5	16QAM	1	0	2498.5	21.00	PASS
41	5	16QAM	1	0	2593.0	20.99	PASS
41	5	16QAM	1	0	2687.5	20.97	PASS
41	10	QPSK	1	49	2501.0	21.70	PASS
41	10	QPSK	1	49	2593.0	21.67	PASS
41	10	QPSK	1	49	2685.0	21.69	PASS
41	10	16QAM	1	0	2501.0	21.07	PASS
41	10	16QAM	1	0	2593.0	21.05	PASS
41	10	16QAM	1	0	2685.0	21.08	PASS
41	15	QPSK	1	0	2503.5	20.74	PASS
41	15	QPSK	1	0	2593.0	20.72	PASS
41	15	QPSK	1	0	2682.5	20.73	PASS
41	15	16QAM	1	74	2503.5	21.15	PASS
41	15	16QAM	1	74	2593.0	21.13	PASS
41	15	16QAM	1	74	2682.5	21.16	PASS
41	20	QPSK	1	0	2506.0	21.86	PASS
41	20	QPSK	1	0	2593.0	21.47	PASS
41	20	QPSK	1	0	2680.0	21.46	PASS
41	20	16QAM	1	49	2506.0	20.91	PASS
41	20	16QAM	1	49	2593.0	20.88	PASS
41	20	16QAM	1	49	2680.0	20.89	PASS



8. LTE Band 41 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
66	1.4	QPSK	1	0	1710.7	20.79	PASS
66	1.4	QPSK	1	0	1732.5	20.87	PASS
66	1.4	QPSK	1	0	1754.3	20.82	PASS
66	1.4	16QAM	1	3	1710.7	19.89	PASS
66	1.4	16QAM	1	3	1732.5	19.92	PASS
66	1.4	16QAM	1	3	1754.3	19.89	PASS
66	3	QPSK	1	0	1711.5	20.90	PASS
66	3	QPSK	1	0	1732.5	20.91	PASS
66	3	QPSK	1	0	1753.5	20.89	PASS
66	3	16QAM	1	14	1711.5	20.45	PASS
66	3	16QAM	1	14	1732.5	21.43	PASS
66	3	16QAM	1	14	1753.5	21.41	PASS
66	5	QPSK	1	0	1712.5	22.14	PASS
66	5	QPSK	1	0	1732.5	22.13	PASS
66	5	QPSK	1	0	1752.5	22.16	PASS
66	5	16QAM	1	0	1712.5	20.52	PASS
66	5	16QAM	1	0	1732.5	20.48	PASS
66	5	16QAM	1	0	1752.5	20.50	PASS
66	10	QPSK	1	0	1715	20.15	PASS
66	10	QPSK	1	0	1732.5	21.13	PASS
66	10	QPSK	1	0	1750	21.12	PASS
66	10	16QAM	1	24	1715	20.49	PASS
66	10	16QAM	1	24	1732.5	20.51	PASS
66	10	16QAM	1	24	1750	20.48	PASS
66	15	QPSK	1	74	1717.5	20.05	PASS
66	15	QPSK	1	74	1732.5	20.08	PASS
66	15	QPSK	1	74	1747.5	20.06	PASS
66	15	16QAM	1	74	1717.5	19.19	PASS
66	15	16QAM	1	74	1732.5	19.14	PASS
66	15	16QAM	1	74	1747.5	19.16	PASS
66	20	QPSK	1	0	1720	20.12	PASS
66	20	QPSK	1	0	1732.5	20.15	PASS
66	20	QPSK	1	0	1745	20.17	PASS
66	20	16QAM	1	0	1720	19.26	PASS
66	20	16QAM	1	0	1732.5	19.29	PASS
66	20	16QAM	1	0	1745	19.28	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7

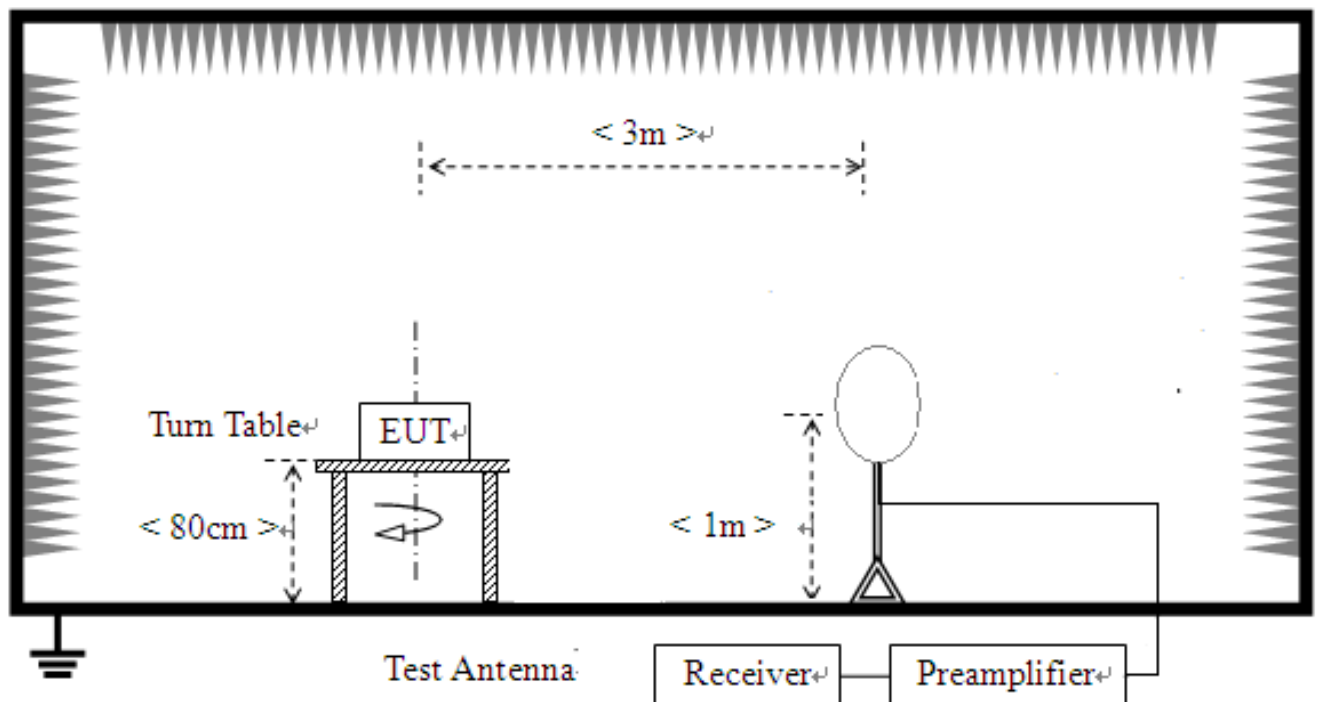
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.8.2 Measuring Instruments

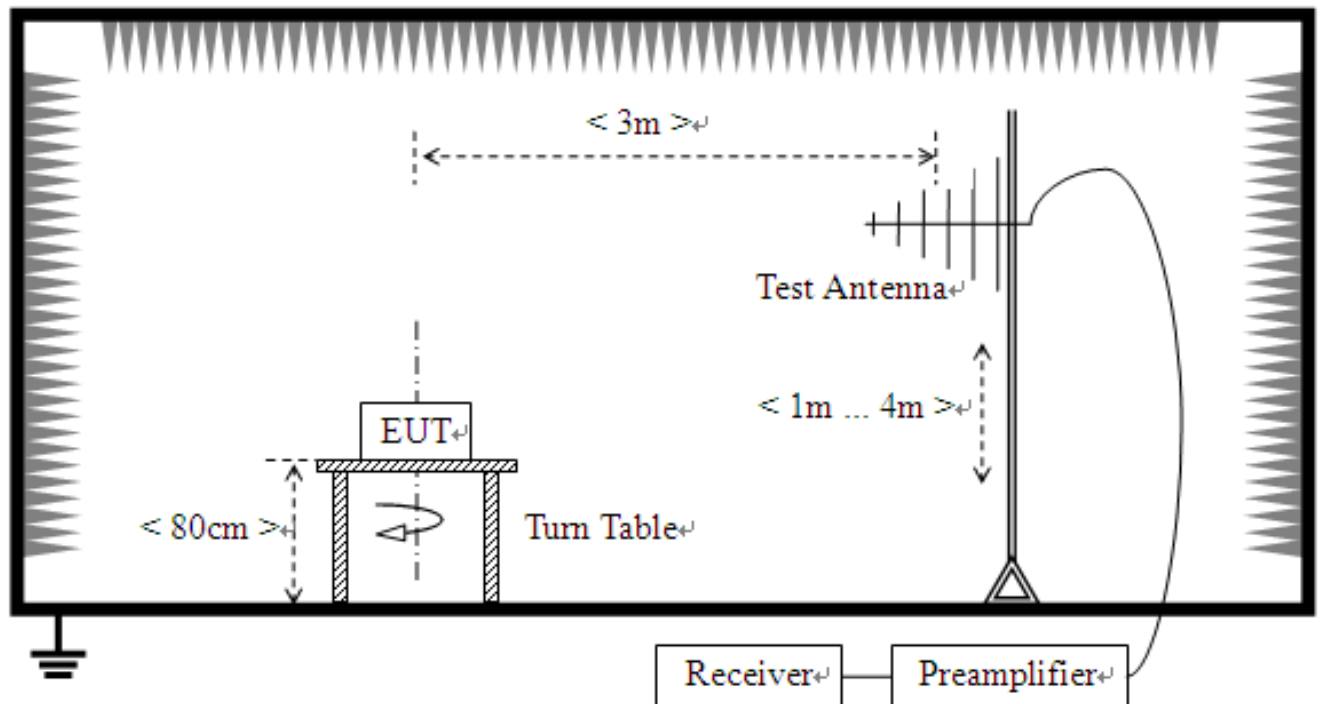
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

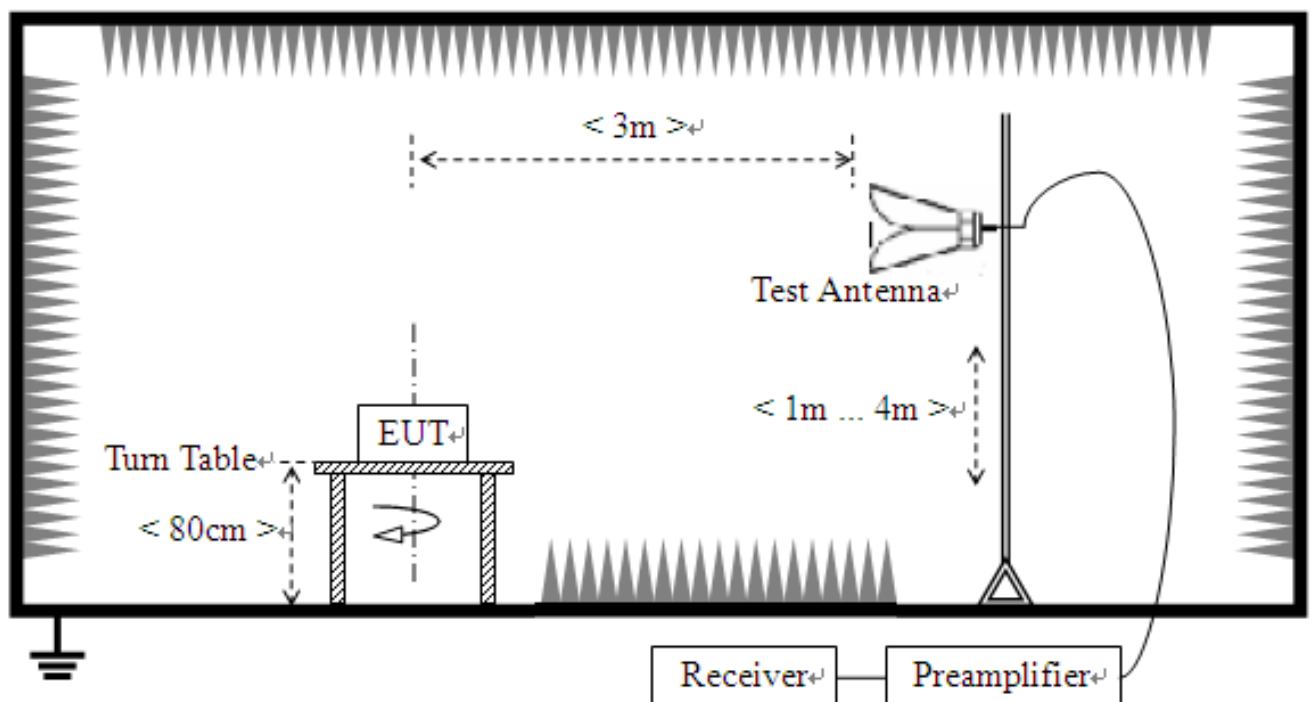
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

<For Band 7>

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst



case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.

13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1, RB Offset 0

2.8.5 Test Result (Plots) of Radiated Spurious Emission

Note: 1. within 30MHz-1GHz were found more than 20dB below limit line

Note: 2. Absolute Level=Reading Level + Factor

LTE Band 2 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-85.23	-63.58	-13.00	50.58	21.65	Horizontal
2	48.4392	-88.64	-69.64	-13.00	56.64	19.00	Horizontal
3	90.1701	-100.81	-82.49	-13.00	69.49	18.32	Horizontal
4	3172.58	-58.95	-50.03	-13.00	37.03	8.92	Horizontal
5	6369.18	-60.79	-46.17	-13.00	33.17	14.62	Horizontal
6	9865.93	-62.97	-39.97	-13.00	26.97	23.00	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.60	-64.71	-13.00	51.71	19.89	Vertical
2	49.4097	-91.09	-72.77	-13.00	59.77	18.32	Vertical
3	121.710	-100.67	-79.31	-13.00	66.31	21.36	Vertical
4	3900.45	-58.77	-48.56	-13.00	35.56	10.21	Vertical
5	7974.98	-61.81	-43.97	-13.00	30.97	17.84	Vertical
6	10113.5	-62.27	-38.97	-13.00	25.97	23.30	Vertical

Note: other spurious emissions are 20dB below limit line and no need to report

LTE Band 4 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.39	-64.50	-13.00	51.50	19.89	Vertical
2	48.4392	-90.66	-72.22	-13.00	59.22	18.44	Vertical
3	74.1571	-91.33	-70.63	-13.00	57.63	20.70	Vertical
4	2682.84	-57.60	-49.61	-13.00	36.61	7.99	Vertical
5	5033.51	-60.27	-46.61	-13.00	33.61	13.66	Vertical
6	7284.64	-59.85	-43.19	-13.00	30.19	16.66	Vertical

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.96	-63.31	-13.00	50.31	21.65	Horizontal
2	48.4392	-90.75	-71.75	-13.00	58.75	19.00	Horizontal
3	121.710	-100.96	-82.06	-13.00	69.06	18.90	Horizontal
4	3922.96	-59.34	-49.85	-13.00	36.85	9.49	Horizontal
5	7854.92	-60.41	-43.42	-13.00	30.42	16.99	Horizontal
6	11734.3	-62.53	-38.91	-13.00	25.91	23.62	Horizontal

Note: other spurious emissions are 20dB below limit line and no need to report

LTE Band 5 QPSK 10MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-86.48	-62.12	-13.00	49.12	24.36	Horizontal
2	48.9245	-90.78	-69.28	-13.00	56.28	21.50	Horizontal
3	345.892	-103.83	-73.76	-13.00	60.76	30.07	Horizontal
4	1782.39	-56.71	-55.35	-13.00	42.35	1.36	Horizontal
5	3217.60	-58.75	-49.85	-13.00	36.85	8.90	Horizontal
6	7967.48	-61.22	-42.89	-13.00	29.89	18.33	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-85.48	-62.88	-13.00	49.88	22.60	Vertical
2	47.9540	-88.82	-67.70	-13.00	54.70	21.12	Vertical
3	394.902	-104.73	-75.34	-13.00	62.34	29.39	Vertical
4	1767.38	-56.71	-56.41	-13.00	43.41	0.30	Vertical
5	5078.53	-60.22	-46.14	-13.00	33.14	14.08	Vertical
6	10158.5	-62.55	-39.10	-13.00	26.10	23.45	Vertical

Note:other spurious emissions are 20dB below limit line and no need to report

LTE Band 7 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-82.82	-62.93	-25.00	37.93	19.89	Vertical
2	100.360	-90.20	-66.81	-25.00	41.81	23.39	Vertical
3	972.341	-88.68	-54.50	-25.00	29.50	34.18	Vertical
4	5108.55	-60.27	-46.19	-25.00	21.19	14.08	Vertical
5	7134.56	-60.19	-43.74	-25.00	18.74	16.45	Vertical
6	10158.5	-62.03	-38.58	-25.00	13.58	23.45	Vertical

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.2491	-86.81	-65.51	-25.00	40.51	21.30	Horizontal
2	369.184	-88.16	-62.11	-25.00	37.11	26.05	Horizontal
3	848.604	-89.00	-55.36	-25.00	30.36	33.64	Horizontal
4	5063.53	-58.62	-46.98	-25.00	21.98	11.64	Horizontal
5	7194.59	-60.77	-43.79	-25.00	18.79	16.98	Horizontal
6	10241.1	-62.63	-38.88	-25.00	13.88	23.75	Horizontal
1	38.2491	-86.81	-65.51	-25.00	40.51	21.30	Horizontal

Note:other spurious emissions are 20dB below limit line and no need to report

LTE Band 12 QPSK 10MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-86.43	-63.92	-13.00	50.92	22.51	Horizontal
2	48.4392	-90.81	-71.00	-13.00	58.00	19.81	Horizontal
3	121.710	-101.43	-81.02	-13.00	68.02	20.41	Horizontal
4	1414.20	-50.76	-53.11	-13.00	40.11	-2.35	Horizontal
5	3210.10	-58.89	-49.85	-13.00	36.85	9.04	Horizontal
6	9093.04	-61.77	-41.04	-13.00	28.04	20.73	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.96	-64.21	-13.00	51.21	20.75	Vertical
2	47.9540	-90.81	-71.50	-13.00	58.50	19.31	Vertical
3	90.1701	-101.22	-77.60	-13.00	64.60	23.62	Vertical
4	1415.20	-56.88	-59.54	-13.00	46.54	-2.66	Vertical
5	3150.07	-58.43	-49.82	-13.00	36.82	8.61	Vertical
6	8822.91	-61.58	-42.18	-13.00	29.18	19.40	Vertical

LTE Band 17 QPSK 10MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-85.93	-63.42	-13.00	50.42	22.51	Horizontal
2	48.9245	-91.12	-71.42	-13.00	58.42	19.70	Horizontal
3	120.255	-101.24	-80.90	-13.00	67.90	20.34	Horizontal
4	1415.20	-50.47	-52.82	-13.00	39.82	-2.35	Horizontal
5	3105.05	-57.74	-49.55	-13.00	36.55	8.19	Horizontal
6	7209.60	-60.34	-43.36	-13.00	30.36	16.98	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-85.47	-64.72	-13.00	51.72	20.75	Vertical
2	48.4392	-91.04	-71.79	-13.00	58.79	19.25	Vertical
3	74.1571	-99.10	-77.24	-13.00	64.24	21.86	Vertical
4	3172.58	-58.79	-49.81	-13.00	36.81	8.98	Vertical
5	5071.03	-59.49	-45.48	-13.00	32.48	14.01	Vertical
6	10286.1	-61.97	-38.46	-13.00	25.46	23.51	Vertical

LTE Band 41 QPSK 15MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.79	-63.14	-25.00	38.14	21.65	Horizontal
2	48.9245	-92.74	-73.85	-25.00	48.85	18.89	Horizontal
3	505.537	-104.29	-74.27	-25.00	49.27	30.02	Horizontal
4	3735.36	-58.52	-49.75	-25.00	24.75	8.77	Horizontal
5	5311.15	-59.63	-47.38	-25.00	22.38	12.25	Horizontal
6	9198.09	-60.38	-38.60	-25.00	13.60	21.78	Horizontal
Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-84.26	-64.37	-25.00	39.37	19.89	Vertical
2	48.4392	-90.35	-71.91	-25.00	46.91	18.44	Vertical
3	111.035	-101.60	-79.23	-25.00	54.23	22.37	Vertical
4	5101.05	-59.24	-44.99	-25.00	19.99	14.25	Vertical
5	7307.15	-60.13	-43.50	-25.00	18.50	16.63	Vertical
6	10541.2	-62.29	-38.97	-25.00	13.97	23.32	Vertical

LTE Band 66 QPSK 15MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3471.23	-39.76	-32.56	-13.00	19.56	7.20	Horizontal
2	5209.10	-47.88	-37.59	-13.00	24.59	10.29	Horizontal
3	6948.47	-58.65	-43.52	-13.00	30.52	15.13	Horizontal
4	8683.34	-58.55	-40.19	-13.00	27.19	18.36	Horizontal
5	10418.2	-59.79	-37.36	-13.00	24.36	22.43	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3472.73	-50.31	-43.45	-13.00	30.45	6.86	Vertical
2	5209.10	-55.40	-45.45	-13.00	32.45	9.95	Vertical
3	6942.47	-52.41	-38.24	-13.00	25.24	14.17	Vertical
4	8683.34	-58.52	-40.62	-13.00	27.62	17.90	Vertical
5	10418.2	-56.27	-34.09	-13.00	21.09	22.18	Vertical



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB7	A0501375	2019.07.30	2020.07.29	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2019.04.26	2022.04.25	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101341	2017.07.14	2020.07.13	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101339	2017.07.14	2020.07.13	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100150	2019.04.27	2022.04.26	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100149	2019.04.17	2022.04.16	Radiation
Horn antenna (18GHz~26.5GHz)	AR	AT4002A	305753	2017.07.12	2020.07.11	Radiation
Horn antenna (18GHz~26.5GHz)	AR	AT4003A	0329293	2018.09.17	2020.09.16	Radiation
Amplifier 1GHz-18GHz	AR	25S1G4AM1	22018	2018.09.17	2020.09.16	Radiation
Ampilier 20M~3GHz	MILMEGA	80RF1000-250	1064573	2017.10.09	2020.10.08	Radiation
Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2020.05.18	2021.05.17	Conducted
Test Receiver	R&S	ESCI	A0902601	2019.07.02	2020.07.01	Conducted
Temperature chamber	welissom Inc.	SU-642	A150802409	2019.07.18	2020.07.17	Conducted
Wideband Radio Communication tester	R&S	CMW500	A130101034	2019.07.30	2021.07.29	Conducted
Power Supply	R&S	NGMO1	101037	2019.08.03	2020.08.02	Conducted

4. UNCERTAINTY OF EVALUATION

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150KHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.6dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.4dB
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Uncertainty of Radiated Emission Measurement (1GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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APPENDIX A

Conducted RF (Average) Output Power

Test Result and Data

1. LTE Band 2 Conducted Power Test Verdict:

LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18607/1850.7	18900/1880	19193/1909.3	
1.4MHz	QPSK	1	0	21.22	21.38	21.2	20.5±1.0
		1	3	21.16	21.18	21.09	
		1	5	21.03	21.3	21.19	
		3	0	20.89	21.06	20.94	20.5±1.0
		3	2	20.74	20.93	20.92	
		3	3	20.75	20.99	20.81	
		6	0	20.47	20.73	20.55	20.0±1.0
	16QAM	1	0	20	20.17	19.95	19.5±1.0
		1	3	19.94	19.97	19.84	
		1	5	19.81	20.09	19.94	
		3	0	19.67	19.85	19.69	19.5±1.0
		3	2	19.52	19.72	19.67	
		3	3	19.53	19.78	19.56	
		6	0	19.25	19.52	19.3	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18615/1851.5	18900/1880	19185/1908.5	
3MHz	QPSK	1	0	21.29	21.43	21.28	20.5±1.0
		1	7	21.23	21.23	21.17	
		1	14	21.1	21.35	21.27	
		8	0	20.96	21.11	21.02	20.5±1.0
		8	4	20.81	20.98	21	
		8	7	20.82	21.04	20.89	
		15	0	20.54	20.78	20.63	20.0±1.0
	16QAM	1	0	20.07	20.22	20.03	19.5±1.0
		1	7	20.01	20.02	19.92	
		1	14	19.88	20.14	20.02	
		8	0	19.74	19.9	19.77	19.5±1.0
		8	4	19.59	19.77	19.75	
		8	7	19.6	19.83	19.64	
		15	0	19.32	19.57	19.38	19.0±1.0



LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880	19175/1907.5	
5MHz	QPSK	1	0	21.34	21.46	21.32	20.5±1.0
		1	13	21.28	21.26	21.21	
		1	24	21.15	21.38	21.31	
		12	0	21.01	21.14	21.06	20.5±1.0
		12	6	20.86	21.01	21.04	
		12	13	20.87	21.07	20.93	
		25	0	20.59	20.81	20.67	20.0±1.0
	16QAM	1	0	20.12	20.25	20.07	19.5±1.0
		1	13	20.06	20.05	19.96	
		1	24	19.93	20.17	20.06	
		12	0	19.79	19.93	19.81	19.5±1.0
		12	6	19.64	19.8	19.79	
		12	13	19.65	19.86	19.68	
		25	0	19.37	19.6	19.42	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855	18900/1880	19150/1905	
10MHz	QPSK	1	0	21.39	21.49	21.36	20.5±1.0
		1	25	21.33	21.29	21.25	
		1	49	21.2	21.41	21.35	
		25	0	21.06	21.17	21.1	20.5±1.0
		25	13	20.91	21.04	21.08	
		25	25	20.92	21.1	20.97	
		50	0	20.64	20.84	20.71	20.0±1.0
	16QAM	1	0	20.17	20.28	20.11	19.5±1.0
		1	25	20.11	20.08	20	
		1	49	19.98	20.2	20.1	
		25	0	19.84	19.96	19.85	19.5±1.0
		25	13	19.69	19.83	19.83	
		25	25	19.7	19.89	19.72	
		50	0	19.42	19.63	19.46	19.0±1.0



LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880	19125/1902.5	
15MHz	QPSK	1	0	21.45	21.53	21.42	20.8±1.0
		1	38	21.39	21.33	21.31	
		1	74	21.26	21.45	21.41	
		36	0	21.12	21.21	21.16	20.5±1.0
		36	18	20.97	21.08	21.14	
		36	39	20.98	21.14	21.03	
		75	0	20.7	20.88	20.77	20.0±1.0
	16QAM	1	0	20.23	20.32	20.17	19.5±1.0
		1	38	20.17	20.12	20.06	
		1	74	20.04	20.24	20.16	
		36	0	19.9	20	19.91	19.5±1.0
		36	18	19.75	19.87	19.89	
		36	39	19.76	19.93	19.78	
		75	0	19.48	19.67	19.52	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860	18900/1880	19100/1900	
20MHz	QPSK	1	0	21.53	21.66	21.48	20.8±1.0
		1	50	21.47	21.36	21.37	
		1	99	21.34	21.48	21.47	
		50	0	21.2	21.24	21.22	20.5±1.0
		50	25	21.05	21.11	21.2	
		50	50	21.06	21.17	21.09	
		100	0	20.78	20.91	20.83	20.0±1.0
	16QAM	1	0	20.31	20.45	20.23	19.5±1.0
		1	50	20.25	20.15	20.12	
		1	99	20.12	20.27	20.22	
		50	0	19.98	20.03	19.97	19.5±1.0
		50	25	19.83	19.9	19.95	
		50	50	19.84	19.96	19.84	
		100	0	19.56	19.7	19.58	19.0±1.0



2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	21.48	21.64	21.41	21.0±1.0
		1	3	21.42	21.25	21.31	
		1	5	21.16	21.51	21.44	
		3	0	20.98	21.13	20.86	20.5±1.0
		3	2	20.82	20.87	20.94	
		3	3	20.89	20.99	20.93	
		6	0	20.29	20.49	20.28	19.5±1.0
	16QAM	1	0	20.15	20.34	20.06	20.0±1.0
		1	3	20.09	19.95	19.96	
		1	5	19.83	20.21	20.09	
		3	0	19.65	19.83	19.51	19.5±1.0
		3	2	19.49	19.57	19.59	
		3	3	19.56	19.69	19.58	
		6	0	18.96	19.19	18.93	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	21.54	21.69	21.46	21.0±1.0
		1	7	21.48	21.3	21.36	
		1	14	21.22	21.56	21.49	
		8	0	21.04	21.18	20.91	20.5±1.0
		8	4	20.88	20.92	20.99	
		8	7	20.95	21.04	20.98	
		15	0	20.35	20.54	20.33	19.5±1.0
	16QAM	1	0	20.21	20.39	20.11	20.0±1.0
		1	7	20.15	20	20.01	
		1	14	19.89	20.26	20.14	
		8	0	19.71	19.88	19.56	19.5±1.0
		8	4	19.55	19.62	19.64	
		8	7	19.62	19.74	19.63	
		15	0	19.02	19.24	18.98	19.0±1.0



LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	21.6	21.73	21.51	21.0±1.0
		1	13	21.54	21.34	21.41	
		1	24	21.28	21.6	21.54	
		12	0	21.1	21.22	20.96	20.5±1.0
		12	6	20.94	20.96	21.04	
		12	13	21.01	21.08	21.03	
		25	0	20.41	20.58	20.38	19.5±1.0
	16QAM	1	0	20.27	20.43	20.16	20.0±1.0
		1	13	20.21	20.04	20.06	
		1	24	19.95	20.3	20.19	
		12	0	19.77	19.92	19.61	19.5±1.0
		12	6	19.61	19.66	19.69	
		12	13	19.68	19.78	19.68	
		25	0	19.08	19.28	19.03	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715	20175/1732.5	20350/1750	
10MHz	QPSK	1	0	21.66	21.77	21.56	21.0±1.0
		1	25	21.6	21.38	21.46	
		1	49	21.34	21.64	21.59	
		25	0	21.16	21.26	21.01	20.5±1.0
		25	13	21	21	21.09	
		25	25	21.07	21.12	21.08	
		50	0	20.47	20.62	20.43	19.5±1.0
	16QAM	1	0	20.33	20.47	20.21	20.0±1.0
		1	25	20.27	20.08	20.11	
		1	49	20.01	20.34	20.24	
		25	0	19.83	19.96	19.66	19.5±1.0
		25	13	19.67	19.7	19.74	
		25	25	19.74	19.82	19.73	
		50	0	19.14	19.32	19.08	19.0±1.0



LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	21.73	21.82	21.64	21.0±1.0
		1	38	21.67	21.43	21.54	
		1	74	21.41	21.69	21.67	
		36	0	21.23	21.31	21.09	20.5±1.0
		36	18	21.07	21.05	21.17	
		36	39	21.14	21.17	21.16	
		75	0	20.54	20.67	20.51	19.5±1.0
	16QAM	1	0	20.4	20.52	20.29	20.0±1.0
		1	38	20.34	20.13	20.19	
		1	74	20.08	20.39	20.32	
		36	0	19.9	20.01	19.74	19.5±1.0
		36	18	19.74	19.75	19.82	
		36	39	19.81	19.87	19.81	
		75	0	19.21	19.37	19.16	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720	20175/1732.5	20300/1745	
20MHz	QPSK	1	0	21.76	21.86	21.67	21.0±1.0
		1	50	21.5	21.69	21.66	
		1	99	21.64	21.63	21.51	
		50	0	21.27	21.32	21.08	20.5±1.0
		50	25	21.07	21.18	21.16	
		50	50	21.08	21.14	21.01	
		100	0	20.61	20.74	20.52	19.5±1.0
	16QAM	1	0	20.43	20.56	20.32	20.0±1.0
		1	50	20.07	20.28	20.06	
		1	99	20.18	20.36	20.25	
		50	0	19.94	20.02	19.73	19.5±1.0
		50	25	19.82	19.71	19.7	
		50	50	19.87	19.79	19.67	
		100	0	19.28	19.44	19.17	19.0±1.0



3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	21.43	21.55	21.48	20.8±1.0
		1	3	21.42	21.43	21.29	
		1	5	21.42	21.57	21.31	
		3	0	21.12	21.2	20.98	20.5±1.0
		3	2	20.88	20.96	21.03	
		3	3	20.98	21.07	21.05	
		6	0	20.6	20.75	20.73	20.0±1.0
	16QAM	1	0	20.18	20.32	20.22	19.5±1.0
		1	3	20.14	20.18	20.02	
		1	5	20.14	20.32	20.04	
		3	0	19.84	19.97	19.68	19.5±1.0
		3	2	19.6	19.71	19.76	
		3	3	19.7	19.82	19.78	
		6	0	19.32	19.5	19.46	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	21.52	21.60	21.56	20.8±1.0
		1	7	21.51	21.48	21.37	
		1	14	21.51	21.62	21.39	
		8	0	21.21	21.25	21.06	20.5±1.0
		8	4	20.97	21.01	21.11	
		8	7	21.07	21.12	21.13	
		15	0	20.69	20.8	20.81	20.0±1.0
	16QAM	1	0	20.27	20.37	20.3	19.5±1.0
		1	7	20.23	20.23	20.1	
		1	14	20.23	20.37	20.12	
		8	0	19.93	20.02	19.76	19.5±1.0
		8	4	19.69	19.76	19.84	
		8	7	19.79	19.87	19.86	
		15	0	19.41	19.55	19.54	19.0±1.0



LTE FDD Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	21.55	21.62	21.57	20.8±1.0
		1	13	21.53	21.48	21.45	
		1	24	21.48	21.41	21.55	
		12	0	21.21	21.27	21.03	20.5±1.0
		12	6	20.96	21.12	21.12	
		12	13	21.05	21.06	20.96	
		25	0	20.71	20.73	20.77	20.0±1.0
	16QAM	1	0	20.27	20.37	20.3	19.5±1.0
		1	13	20.25	20.23	20.18	
		1	24	20.2	20.16	20.28	
		12	0	19.93	20.02	19.76	19.5±1.0
		12	6	19.68	19.87	19.85	
		12	13	19.77	19.81	19.69	
		25	0	19.43	19.48	19.5	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829	20525/836.5	20600/844	
10MHz	QPSK	1	0	21.61	21.67	21.62	20.8±1.0
		1	25	21.59	21.53	21.5	
		1	49	21.54	21.46	21.6	
		25	0	21.27	21.32	21.08	20.5±1.0
		25	13	21.02	21.17	21.17	
		25	25	21.11	21.11	21.01	
		50	0	20.77	20.78	20.82	20.0±1.0
	16QAM	1	0	20.33	20.42	20.35	19.5±1.0
		1	25	20.31	20.28	20.23	
		1	49	20.26	20.21	20.33	
		25	0	19.99	20.07	19.81	19.5±1.0
		25	13	19.74	19.92	19.9	
		25	25	19.83	19.86	19.74	
		50	0	19.49	19.53	19.55	19.0±1.0

4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20775/2502.5	21100/2535	21425/2567.5	
5MHz	QPSK	1	0	21.32	21.46	21.41	20.5±1.0
		1	13	21.19	21.25	21.17	
		1	24	21.39	21.43	21.27	
		12	0	21.11	20.98	20.87	20.5±1.0
		12	6	20.77	20.87	20.94	
		12	13	20.82	20.86	20.78	
		25	0	20.51	20.61	20.61	20.0±1.0
	16QAM	1	0	20.04	20.21	20.14	19.5±1.0
		1	13	19.91	20	19.9	
		1	24	20.11	20.18	20	
		12	0	19.83	19.73	19.6	19.5±1.0
		12	6	19.49	19.62	19.67	
		12	13	19.54	19.61	19.51	
		25	0	19.23	19.36	19.34	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20800/2505	21100/2535	21400/2565	
10MHz	QPSK	1	0	21.41	21.51	21.49	20.7±1.0
		1	25	21.28	21.3	21.25	
		1	49	21.48	21.48	21.35	
		25	0	21.2	21.03	20.95	20.5±1.0
		25	13	20.86	20.92	21.02	
		25	25	20.91	20.91	20.86	
		50	0	20.6	20.66	20.69	20.0±1.0
	16QAM	1	0	20.13	20.26	20.22	19.5±1.0
		1	25	20	20.05	19.98	
		1	49	20.2	20.23	20.08	
		25	0	19.92	19.78	19.68	19.5±1.0
		25	13	19.58	19.67	19.75	
		25	25	19.63	19.66	19.59	
		50	0	19.32	19.41	19.42	19.0±1.0



LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535	21375/2562.5	
15MHz	QPSK	1	0	21.5	21.56	21.57	20.7±1.0
		1	38	21.37	21.35	21.33	
		1	74	21.57	21.53	21.43	
		36	0	21.29	21.08	21.03	20.5±1.0
		36	18	20.95	20.97	21.1	
		36	39	21	20.96	20.94	
		75	0	20.69	20.71	20.77	20.0±1.0
	16QAM	1	0	20.22	20.31	20.3	19.5±1.0
		1	38	20.09	20.1	20.06	
		1	74	20.29	20.28	20.16	
		36	0	20.01	19.83	19.76	19.5±1.0
		36	18	19.67	19.72	19.83	
		36	39	19.72	19.71	19.67	
		75	0	19.41	19.46	19.5	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510	21100/2535	21350/2560	
20MHz	QPSK	1	0	21.59	21.61	21.65	20.7±1.0
		1	50	21.46	21.4	21.41	
		1	99	21.66	21.58	21.51	
		50	0	21.38	21.13	21.11	20.5±1.0
		50	25	21.04	21.02	21.18	
		50	50	21.09	21.01	21.02	
		100	0	20.78	20.76	20.85	20.0±1.0
	16QAM	1	0	20.31	20.36	20.38	19.5±1.0
		1	50	20.18	20.15	20.14	
		1	99	20.38	20.33	20.24	
		50	0	20.1	19.88	19.84	19.5±1.0
		50	25	19.76	19.77	19.91	
		50	50	19.81	19.76	19.75	
		100	0	19.5	19.51	19.58	19.0±1.0

5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	21.58	21.61	21.43	21.0±1.0
		1	3	21.25	21.5	21.41	
		1	5	21.25	21.5	21.34	
		3	0	20.98	21.15	20.94	20.5±1.0
		3	2	20.9	20.86	20.87	
		3	3	20.8	20.86	20.94	
		6	0	20.55	20.68	20.51	20.0±1.0
	16QAM	1	0	20.3	20.36	20.16	20.0±1.0
		1	3	19.99	20.05	20.16	
		1	5	20.12	20.03	20.05	
		3	0	19.7	19.9	19.67	19.5±1.0
		3	2	19.62	19.61	19.6	
		3	3	19.52	19.61	19.67	
		6	0	19.27	19.43	19.24	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	21.67	21.66	21.51	21.0±1.0
		1	7	21.34	21.55	21.49	
		1	14	21.34	21.55	21.42	
		8	0	21.07	21.2	21.02	20.5±1.0
		8	4	20.99	20.91	20.95	
		8	7	20.89	20.91	21.02	
		15	0	20.64	20.73	20.59	20.0±1.0
	16QAM	1	0	20.39	20.41	20.24	20.0±1.0
		1	7	20.08	20.1	20.24	
		1	14	20.21	20.08	20.13	
		8	0	19.79	19.95	19.75	19.5±1.0
		8	4	19.71	19.66	19.68	
		8	7	19.61	19.66	19.75	
		15	0	19.36	19.48	19.32	19.0±1.0



LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	21.76	21.71	21.59	21.0±1.0
		1	13	21.43	21.6	21.57	
		1	24	21.43	21.6	21.5	
		12	0	21.16	21.25	21.1	20.5±1.0
		12	6	21.08	20.96	21.03	
		12	13	20.98	20.96	21.1	
		25	0	20.73	20.78	20.67	20.0±1.0
	16QAM	1	0	20.48	20.46	20.32	20.0±1.0
		1	13	20.17	20.15	20.32	
		1	24	20.3	20.13	20.21	
		12	0	19.88	20	19.83	19.5±1.0
		12	6	19.8	19.71	19.76	
		12	13	19.7	19.71	19.83	
		25	0	19.45	19.53	19.4	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704	23095/707.5	23130/711	
10MHz	QPSK	1	0	21.85	21.76	21.67	21.0±1.0
		1	25	21.52	21.65	21.65	
		1	49	21.52	21.65	21.58	
		25	0	21.25	21.30	21.18	20.5±1.0
		25	13	21.17	21.01	21.11	
		25	25	21.07	21.01	21.18	
		50	0	20.82	20.83	20.75	20.0±1.0
	16QAM	1	0	20.57	20.51	20.40	20.0±1.0
		1	25	20.26	20.20	20.40	
		1	49	20.39	20.18	20.29	
		25	0	19.97	20.05	19.91	19.5±1.0
		25	13	19.89	19.76	19.84	
		25	25	19.79	19.76	19.91	
		50	0	19.54	19.58	19.48	19.0±1.0

6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23755/706.5	23790/710	23825/713.5	
5MHz	QPSK	1	0	21.59	21.76	21.68	21.0±1.0
		1	13	21.49	21.51	21.57	
		1	24	21.34	21.63	21.44	
		12	0	21.23	21.08	21.23	20.5±1.0
		12	6	21.1	21.02	21.07	
		12	13	20.98	21.03	21.1	
		25	0	20.69	20.84	20.68	20.0±1.0
	16QAM	1	0	20.31	20.51	20.41	20.0±1.0
		1	13	20.21	20.26	20.3	
		1	24	20.06	20.38	20.17	
		12	0	19.95	19.83	19.96	19.5±1.0
		12	6	19.82	19.77	19.8	
		12	13	19.7	19.78	19.83	
		25	0	19.41	19.59	19.41	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709	23790/710	23800/711	
10MHz	QPSK	1	0	21.68	21.81	21.76	21.0±1.0
		1	25	21.58	21.56	21.65	
		1	49	21.43	21.68	21.52	
		25	0	21.32	21.13	21.31	20.5±1.0
		25	13	21.19	21.07	21.15	
		25	25	21.07	21.08	21.18	
		50	0	20.78	20.89	20.76	20.0±1.0
	16QAM	1	0	20.4	20.56	20.49	20.0±1.0
		1	25	20.3	20.31	20.38	
		1	49	20.15	20.43	20.25	
		25	0	20.04	19.88	20.04	19.5±1.0
		25	13	19.91	19.82	19.88	
		25	25	19.79	19.83	19.91	
		50	0	19.5	19.64	19.49	19.0±1.0



7. LTE Band 41 Conducted Power Test Verdict:

LTE FDD Band 41				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39675/2498.5	40620/2593	41565/2687.5	
5MHz	QPSK	1	0	21.14	21.3	21.18	20.5±1.0
		1	13	21.13	21.17	21.12	
		1	24	20.93	21.22	20.97	
		12	0	20.97	21.13	21.08	20.5±1.0
		12	6	20.89	21.05	20.91	
		12	13	20.86	20.97	20.77	
		25	0	20.49	20.65	20.55	20.0±1.0
	16QAM	1	0	19.86	20.05	19.91	19.5±1.0
		1	13	19.85	19.92	19.85	
		1	24	19.65	19.97	19.7	
		12	0	19.69	19.88	19.81	19.5±1.0
		12	6	19.61	19.8	19.64	
		12	13	19.58	19.72	19.5	
		25	0	19.21	19.4	19.28	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39700/2501	40620/2593	41540/2685	
10MHz	QPSK	1	0	21.23	21.35	21.26	20.5±1.0
		1	25	21.22	21.22	21.2	
		1	49	21.02	21.27	21.05	
		25	0	21.06	21.18	21.16	20.5±1.0
		25	13	20.98	21.1	20.99	
		25	25	20.95	21.02	20.85	
		50	0	20.58	20.7	20.63	20.0±1.0
	16QAM	1	0	19.95	20.1	19.99	19.5±1.0
		1	25	19.94	19.97	19.93	
		1	49	19.74	20.02	19.78	
		25	0	19.78	19.93	19.89	19.5±1.0
		25	13	19.7	19.85	19.72	
		25	25	19.67	19.77	19.58	
		50	0	19.3	19.45	19.36	19.0±1.0



LTE FDD Band 41				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39725/2503.5	40620/2593	41515/2682.5	
15MHz	QPSK	1	0	21.32	21.4	21.34	20.5±1.0
		1	38	21.31	21.27	21.28	
		1	74	21.11	21.32	21.13	
		36	0	21.15	21.23	21.24	20.5±1.0
		36	18	21.07	21.15	21.07	
		36	39	21.04	21.07	20.93	
		75	0	20.67	20.75	20.71	20.0±1.0
	16QAM	1	0	20.04	20.15	20.07	19.5±1.0
		1	38	20.03	20.02	20.01	
		1	74	19.83	20.07	19.86	
		36	0	19.87	19.98	19.97	19.5±1.0
		36	18	19.79	19.9	19.8	
		36	39	19.76	19.82	19.66	
		75	0	19.39	19.5	19.44	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				39750/2506	40620/2593	41490/2680	
20MHz	QPSK	1	0	21.41	21.45	21.42	20.5±1.0
		1	50	21.4	21.32	21.36	
		1	99	21.2	21.37	21.21	
		50	0	21.24	21.28	21.32	20.5±1.0
		50	25	21.16	21.2	21.15	
		50	50	21.13	21.12	21.01	
		100	0	20.76	20.8	20.79	20.0±1.0
	16QAM	1	0	20.13	20.2	20.15	19.5±1.0
		1	50	20.12	20.07	20.09	
		1	99	19.92	20.12	19.94	
		50	0	19.96	20.03	20.05	19.5±1.0
		50	25	19.88	19.95	19.88	
		50	50	19.85	19.87	19.74	
		100	0	19.48	19.55	19.52	19.0±1.0

8. LTE Band 66 Conducted Power Test Verdict:

LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131979/1710.7	132322/1745	132665/1779.3	
1.4MHz	QPSK	1	0	21.07	21.18	20.95	20.5±1.0
		1	3	20.89	21.18	20.96	
		1	5	20.98	21.12	20.98	
		3	0	20.64	20.68	20.45	20.0±1.0
		3	2	20.58	20.69	20.41	
		3	3	20.51	20.53	20.35	
		6	0	20.34	20.45	20.22	20.0±1.0
	16QAM	1	0	20.07	20.08	19.85	19.5±1.0
		1	3	20.1	20.22	20.04	
		1	5	19.96	20.2	19.89	
		3	0	19.71	19.8	19.59	19.5±1.0
		3	2	19.72	19.81	19.6	
		3	3	19.8	19.71	19.68	
		6	0	19.45	19.55	19.42	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131987/1711.5	12322/1745	132657/1778.5	
3MHz	QPSK	1	0	21.12	21.21	21.01	20.5±1.0
		1	7	20.94	21.21	21.02	
		1	14	21.03	21.15	21.04	
		8	0	20.69	20.71	20.51	20.0±1.0
		8	4	20.63	20.72	20.47	
		8	7	20.56	20.56	20.41	
		15	0	20.39	20.48	20.28	20.0±1.0
	16QAM	1	0	20.12	20.11	19.91	19.5±1.0
		1	7	20.15	20.25	20.1	
		1	14	20.01	20.23	19.95	
		8	0	19.76	19.83	19.65	19.5±1.0
		8	4	19.77	19.84	19.66	
		8	7	19.85	19.74	19.74	
		15	0	19.5	19.58	19.48	19.0±1.0



LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				131997/1712.5	132322/1745	132647/1777.5	
5MHz	QPSK	1	0	21.17	21.24	21.07	20.5±1.0
		1	13	20.99	21.24	21.08	
		1	24	21.08	21.18	21.1	
		12	0	20.74	20.74	20.57	20.0±1.0
		12	6	20.68	20.75	20.53	
		12	13	20.61	20.59	20.47	
		25	0	20.44	20.51	20.34	20.0±1.0
	16QAM	1	0	20.17	20.14	19.97	19.5±1.0
		1	13	20.2	20.28	20.16	
		1	24	20.06	20.26	20.01	
		12	0	19.81	19.86	19.71	19.5±1.0
		12	6	19.82	19.87	19.72	
		12	13	19.9	19.77	19.8	
		25	0	19.55	19.61	19.54	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132022/1715	132322/1745	132622/1775	
10MHz	QPSK	1	0	21.23	21.28	21.15	20.5±1.0
		1	25	21.05	21.28	21.16	
		1	49	21.14	21.22	21.18	
		25	0	20.8	20.78	20.65	20.0±1.0
		25	13	20.74	20.79	20.61	
		25	25	20.67	20.63	20.55	
		50	0	20.5	20.55	20.42	20.0±1.0
	16QAM	1	0	20.23	20.18	20.05	19.5±1.0
		1	25	20.26	20.32	20.24	
		1	49	20.12	20.3	20.09	
		25	0	19.87	19.9	19.79	19.5±1.0
		25	13	19.88	19.91	19.8	
		25	25	19.96	19.81	19.88	
		50	0	19.61	19.65	19.62	19.0±1.0



LTE FDD Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132047/1717.5	132322/1745	132597/1772.5	
15MHz	QPSK	1	0	21.29	21.32	21.23	20.5±1.0
		1	38	21.11	21.32	21.24	
		1	74	21.2	21.26	21.26	
		36	0	20.86	20.82	20.73	20.0±1.0
		36	18	20.8	20.83	20.69	
		36	39	20.73	20.67	20.63	
		75	0	20.56	20.59	20.5	20.0±1.0
	16QAM	1	0	20.29	20.22	20.13	19.5±1.0
		1	38	20.32	20.36	20.32	
		1	74	20.18	20.34	20.17	
		36	0	19.93	19.94	19.87	19.5±1.0
		36	18	19.94	19.95	19.88	
		36	39	20.02	19.85	19.96	
		75	0	19.67	19.69	19.7	19.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				132072/1720	132322/1745	132572/1770	
20MHz	QPSK	1	0	21.35	21.36	21.31	20.5±1.0
		1	50	21.17	21.36	21.32	
		1	99	21.26	21.3	21.34	
		50	0	20.92	20.86	20.81	20.0±1.0
		50	25	20.86	20.87	20.77	
		50	50	20.79	20.71	20.71	
		100	0	20.62	20.63	20.58	20.0±1.0
	16QAM	1	0	20.35	20.26	20.21	19.5±1.0
		1	50	20.38	20.4	20.4	
		1	99	20.24	20.38	20.25	
		50	0	19.99	19.98	19.95	19.5±1.0
		50	25	20	19.99	19.96	
		50	50	20.08	19.89	20.04	
		100	0	19.73	19.73	19.78	19.0±1.0

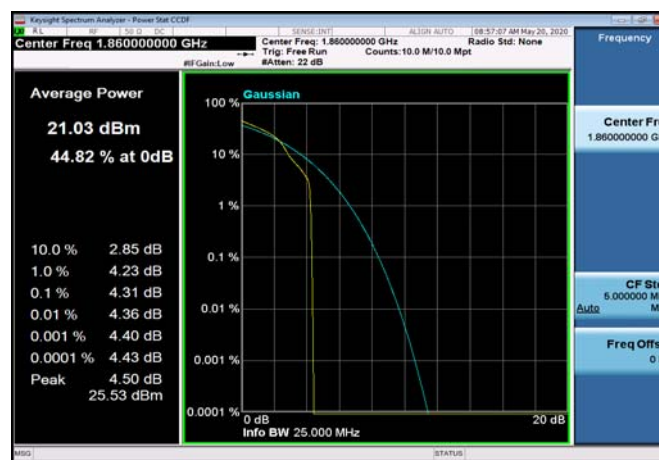
**Peak To Average Ratio****Test Result and Data**

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	20	OneRB_high	Q16	4.31	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	5.99	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	4.40	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	5.78	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	4.20	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	5.91	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	5.24	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	5.80	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	5.22	13.00	Pass
FDD04	MidRange	20	fullRB	Q16	5.99	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	4.64	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	5.93	13.00	Pass
FDD66	LowRange	20	OneRB_high	Q16	5.22	13.00	Pass
FDD66	LowRange	20	fullRB	Q16	6.10	13.00	Pass
FDD66	MidRange	20	OneRB_high	Q16	4.80	13.00	Pass
FDD66	MidRange	20	fullRB	Q16	5.93	13.00	Pass
FDD66	HighRange	20	OneRB_high	Q16	3.67	13.00	Pass
FDD66	HighRange	20	fullRB	Q16	5.42	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	4.48	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	5.86	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	4.41	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	5.95	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	4.34	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	5.89	13.00	Pass
TDD41	LowRange	20	OneRB_high	Q16	8.24	13.00	Pass
TDD41	LowRange	20	fullRB	Q16	8.67	13.00	Pass

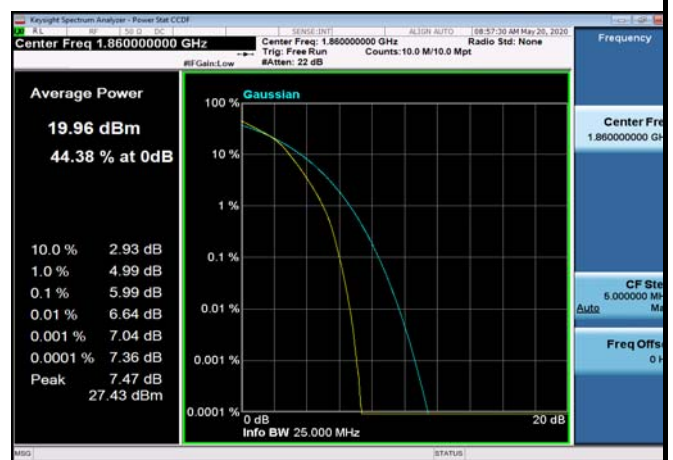


TDD41	MidRange	20	OneRB_high	Q16	8.38	13.00	Pass
TDD41	MidRange	20	fullRB	Q16	9.47	13.00	Pass
TDD41	HighRange	20	OneRB_high	Q16	7.48	13.00	Pass
TDD41	HighRange	20	fullRB	Q16	9.06	13.00	Pass
FDD05	LowRange	10	OneRB_high	Q16	4.61	13.00	Pass
FDD05	LowRange	10	fullRB	Q16	6.07	13.00	Pass
FDD05	MidRange	10	OneRB_high	Q16	4.53	13.00	Pass
FDD05	MidRange	10	fullRB	Q16	6.20	13.00	Pass
FDD05	HighRange	10	OneRB_high	Q16	4.57	13.00	Pass
FDD05	HighRange	10	fullRB	Q16	6.09	13.00	Pass
FDD07	LowRange	10	OneRB_high	Q16	4.20	13.00	Pass
FDD07	LowRange	10	fullRB	Q16	5.67	13.00	Pass
FDD07	MidRange	10	OneRB_high	Q16	4.40	13.00	Pass
FDD07	MidRange	10	fullRB	Q16	5.93	13.00	Pass
FDD07	HighRange	10	OneRB_high	Q16	4.10	13.00	Pass
FDD07	HighRange	10	fullRB	Q16	5.80	13.00	Pass
FDD12	LowRange	10	OneRB_high	Q16	4.75	13.00	Pass
FDD12	LowRange	10	fullRB	Q16	5.74	13.00	Pass
FDD12	MidRange	10	OneRB_high	Q16	4.52	13.00	Pass
FDD12	MidRange	10	fullRB	Q16	5.77	13.00	Pass
FDD12	HighRange	10	OneRB_high	Q16	4.34	13.00	Pass
FDD12	HighRange	10	fullRB	Q16	5.68	13.00	Pass

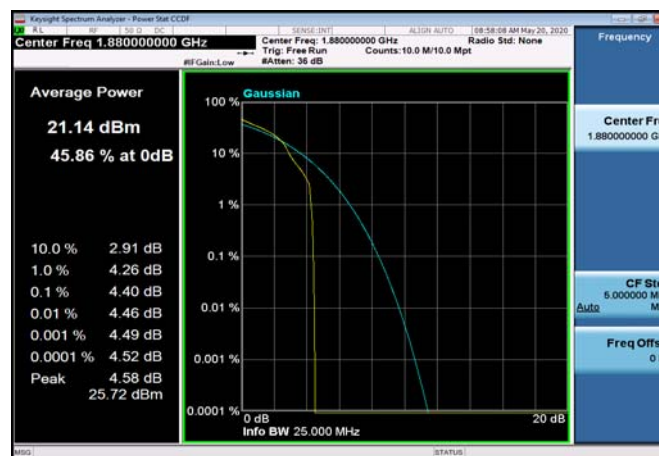
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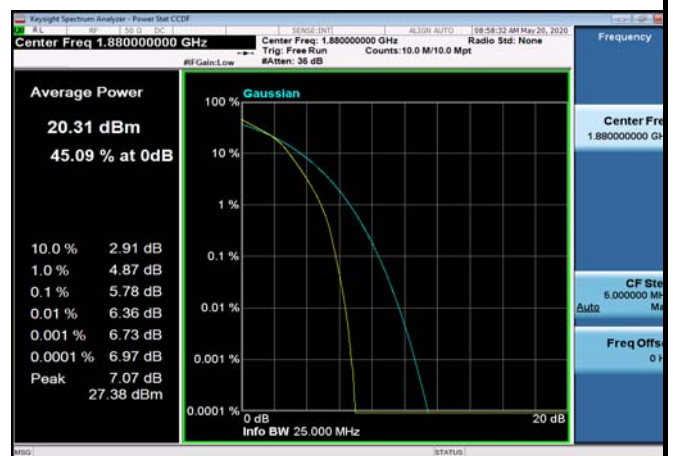
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_Q16



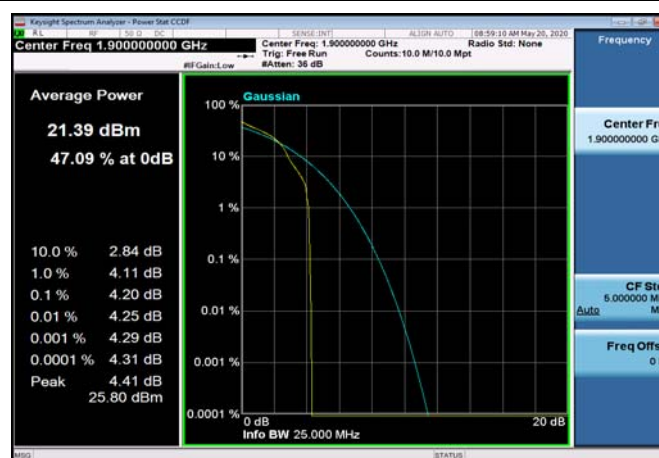
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_high_Q16



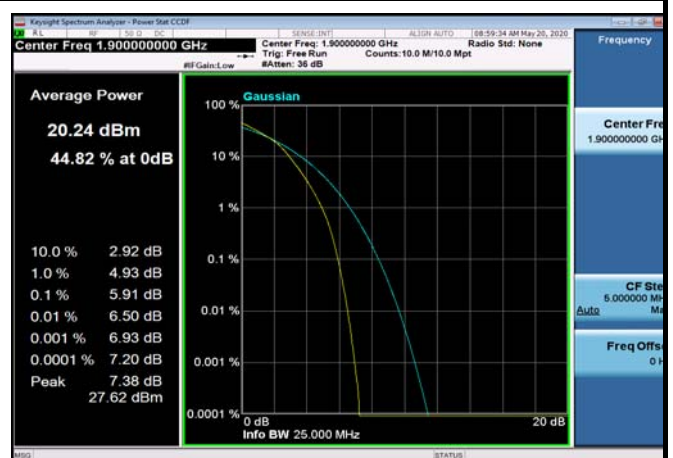
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_Q16

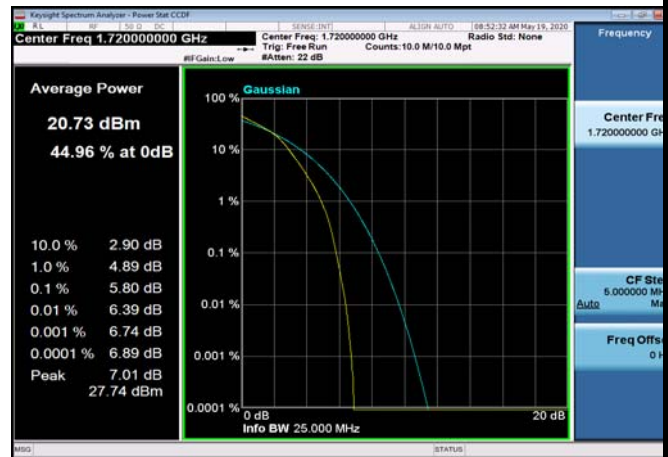
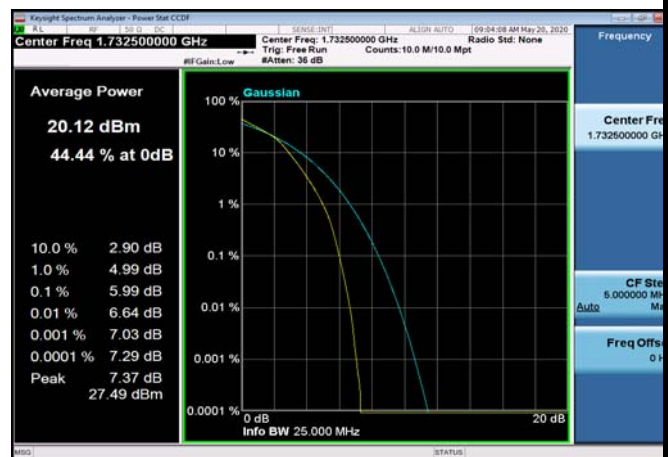
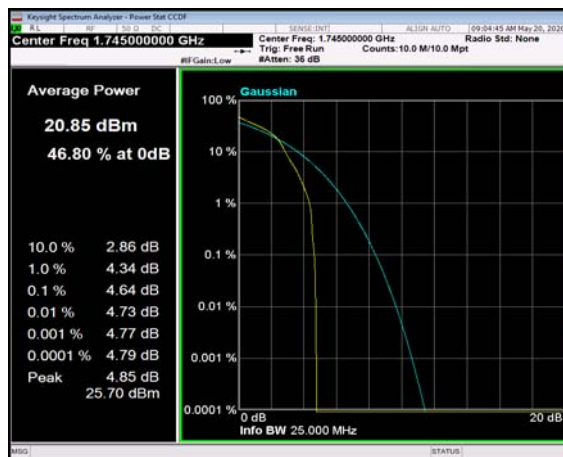
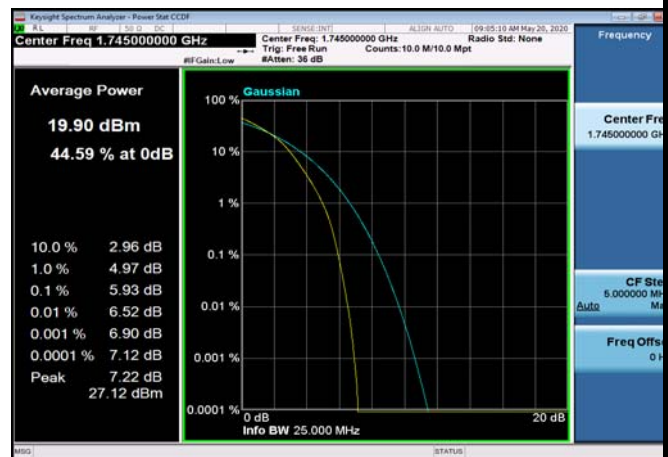


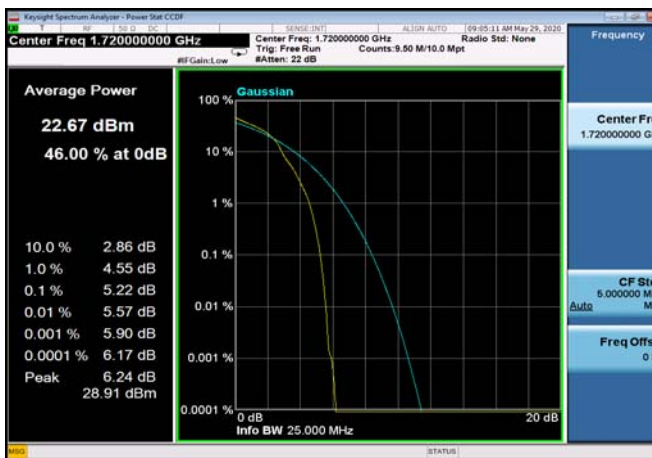
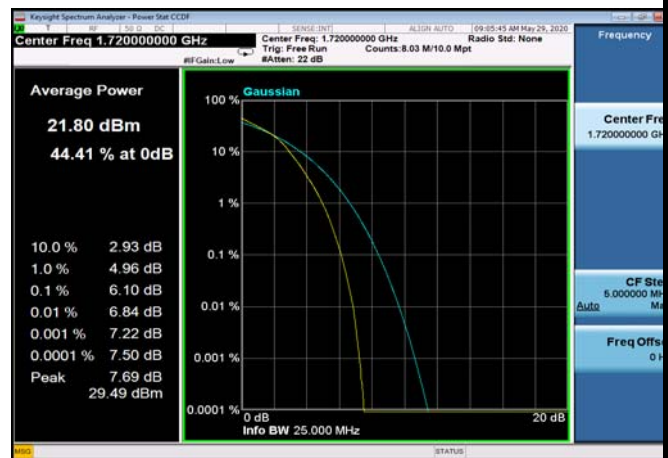
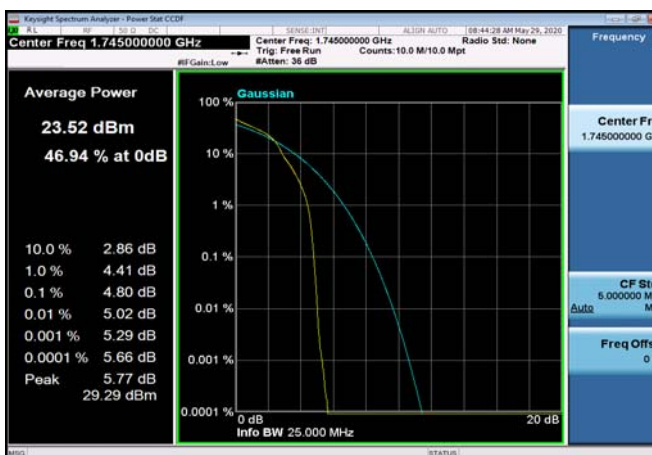
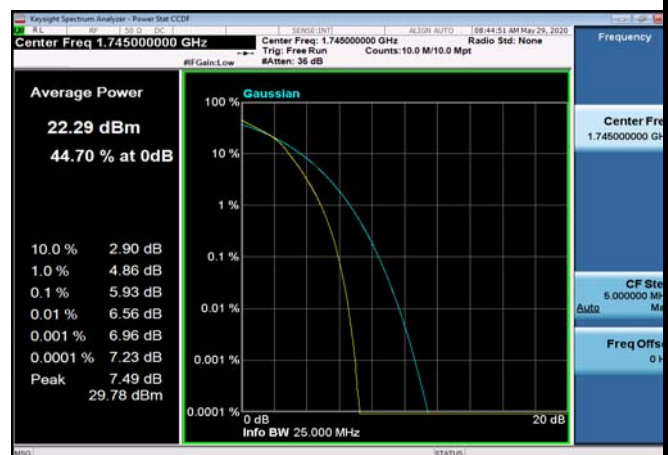
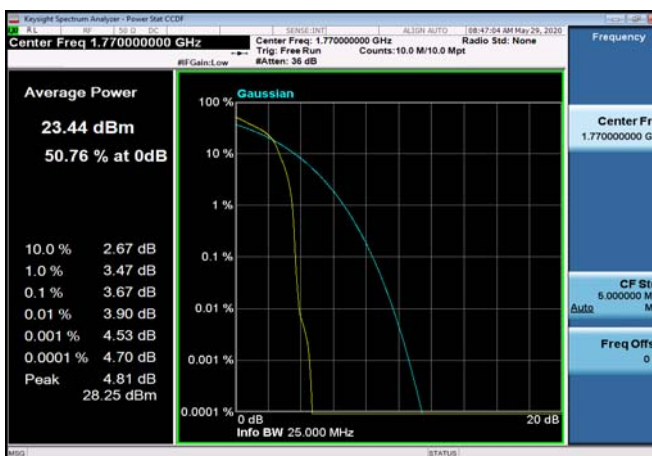
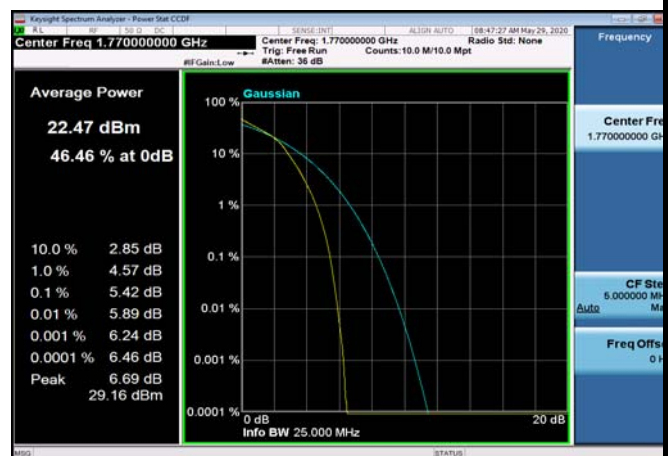
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_high_Q16

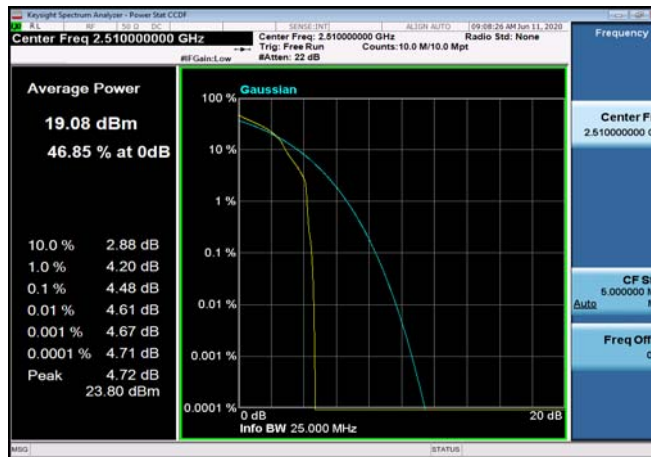
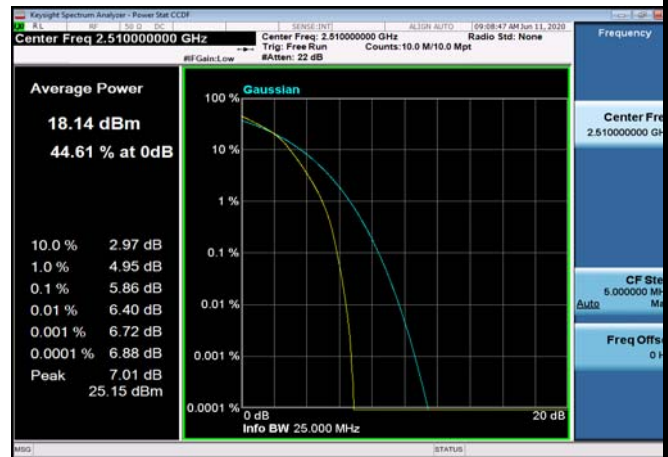
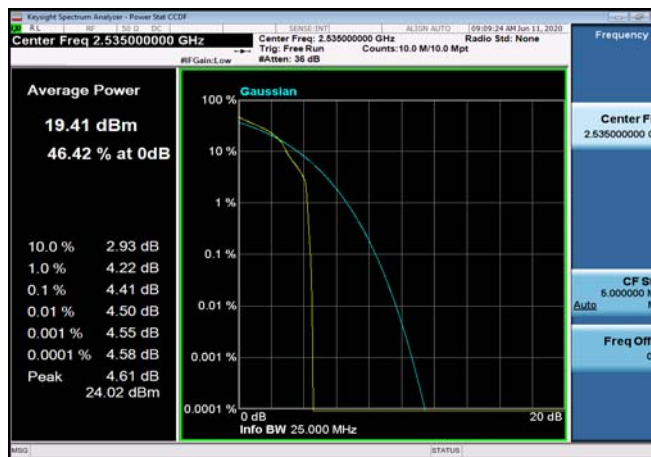
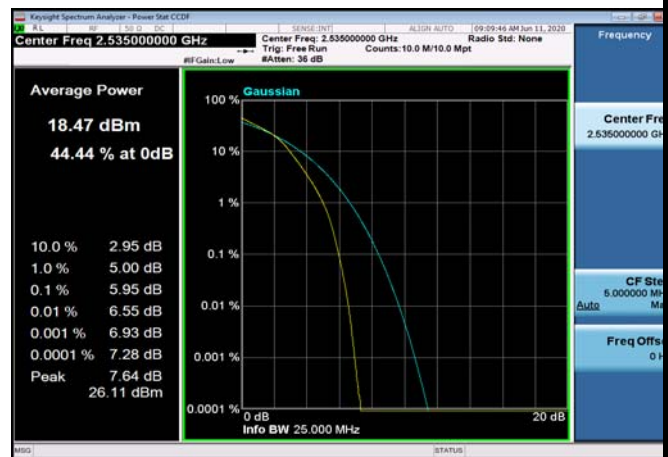
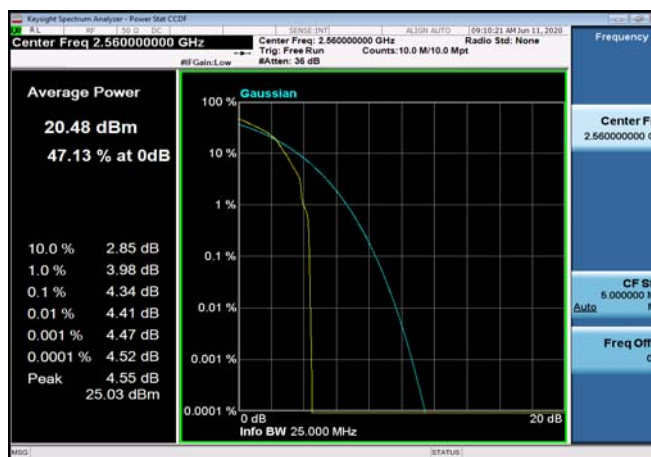
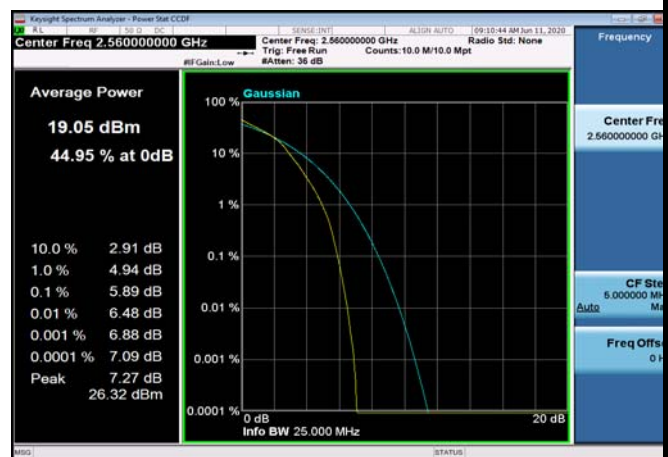


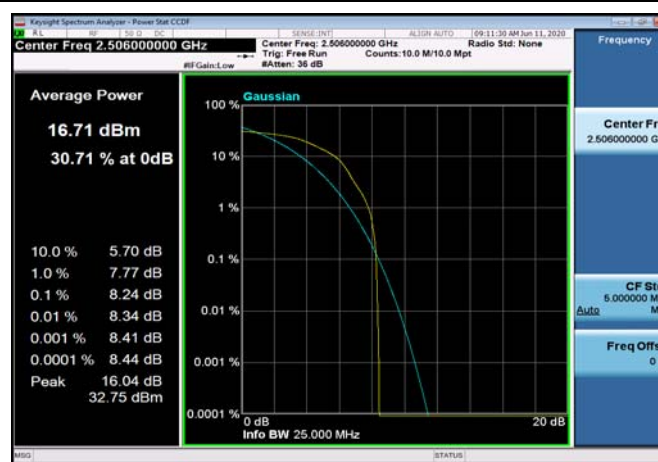
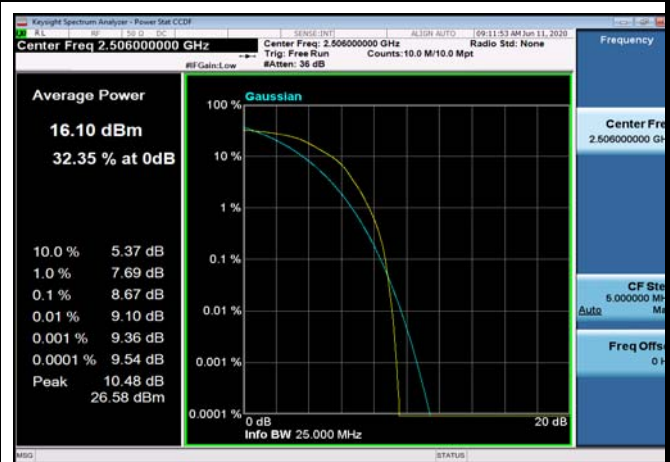
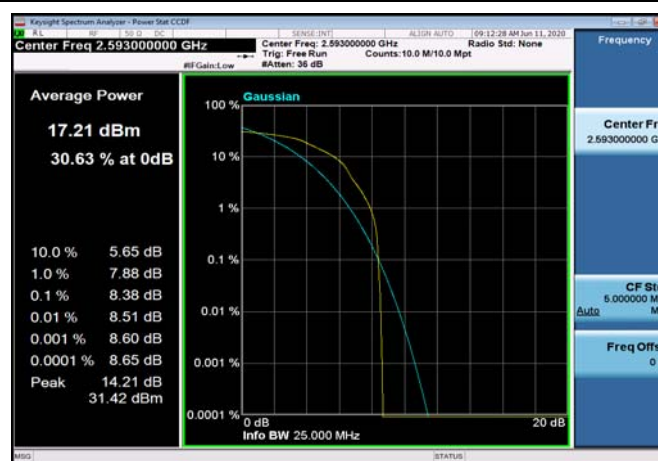
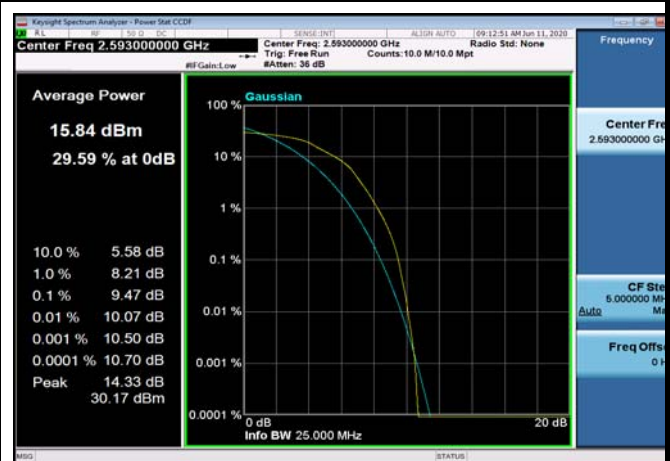
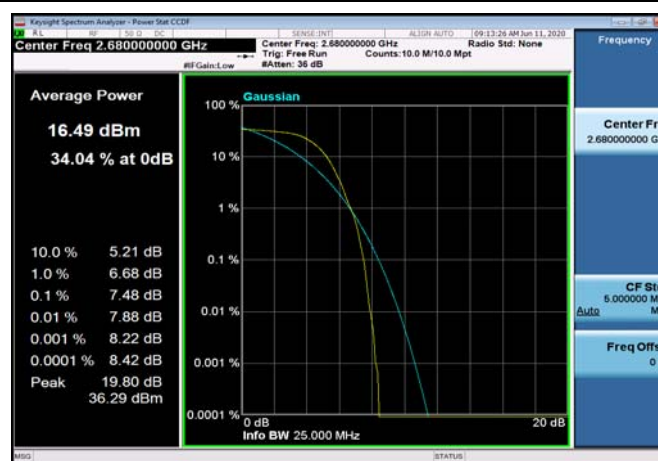
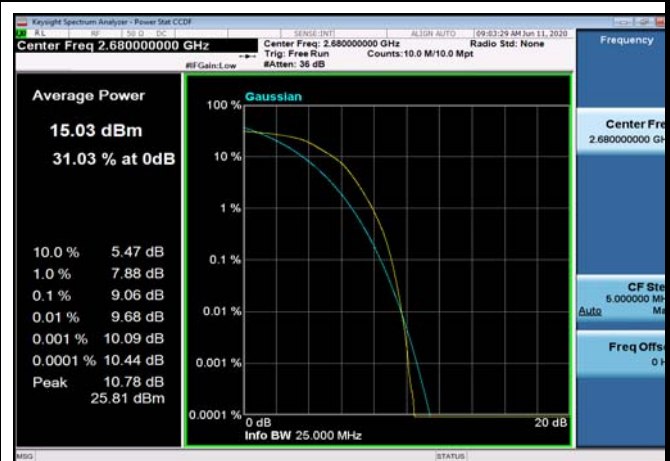
FDD02_HighRange_20MHz_1900_fullRB
_Q16

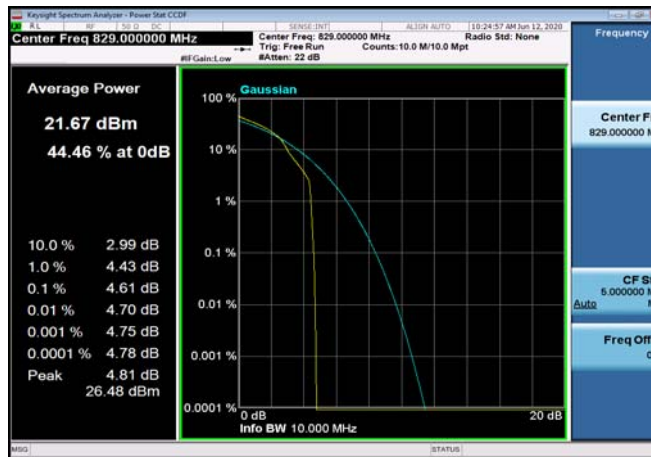
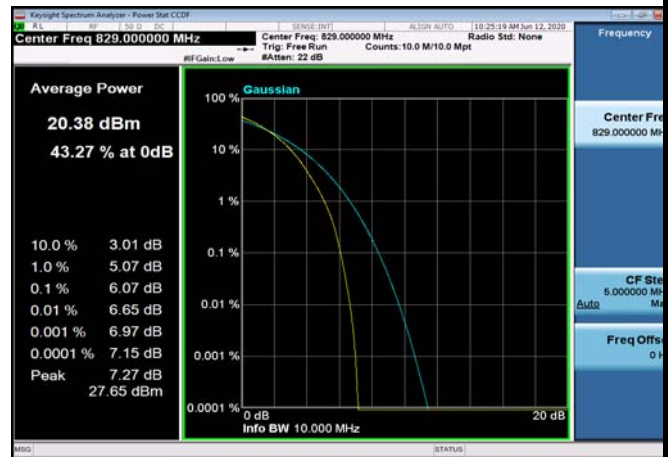
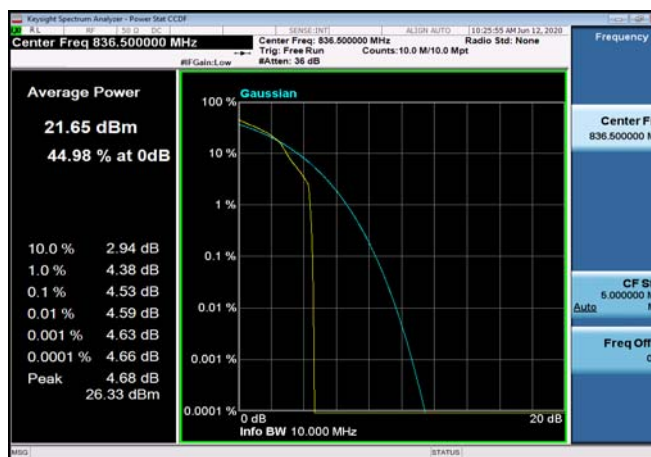
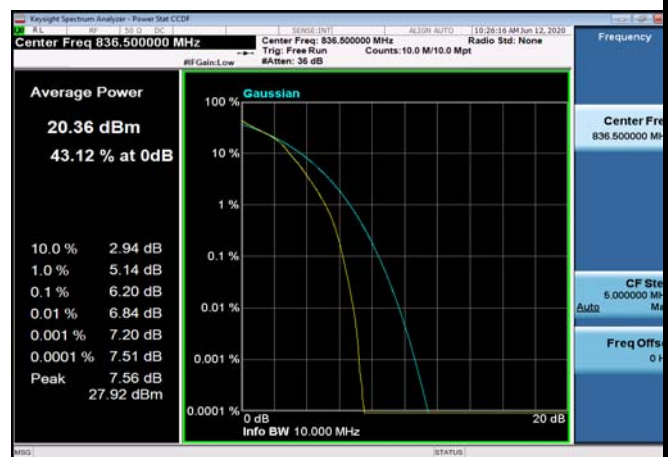
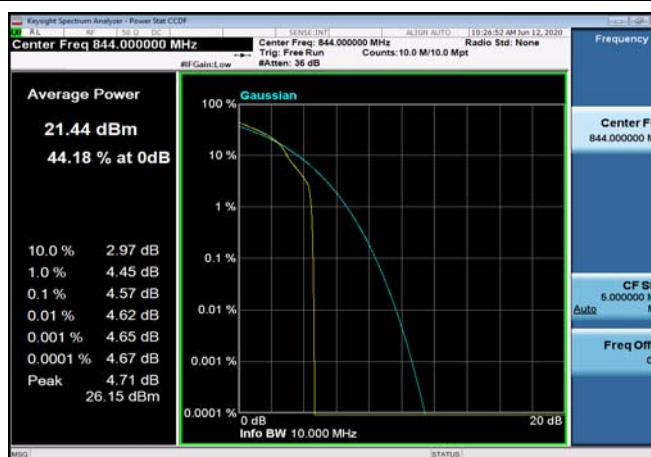
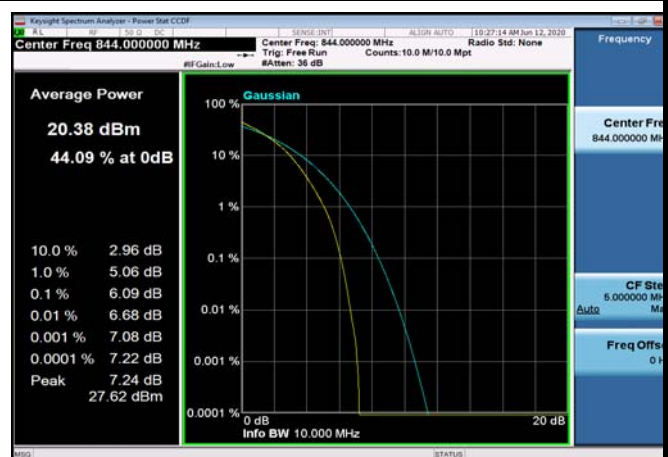


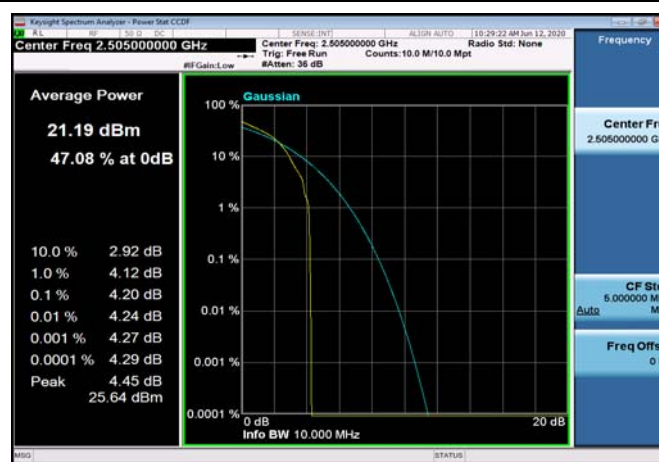
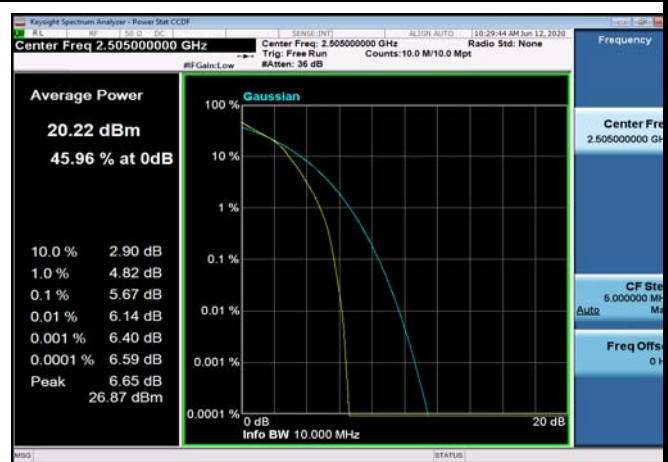
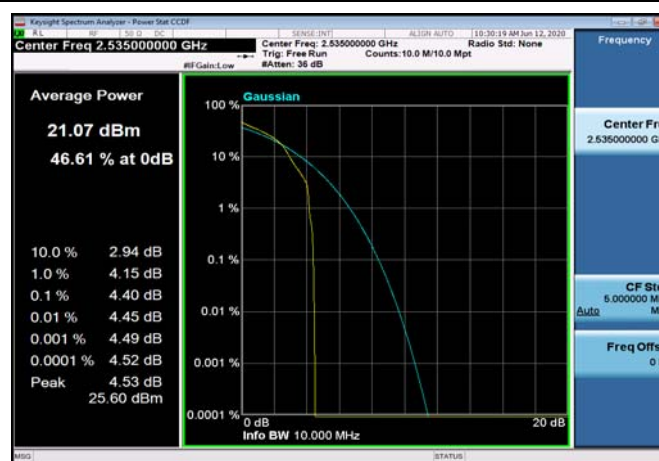
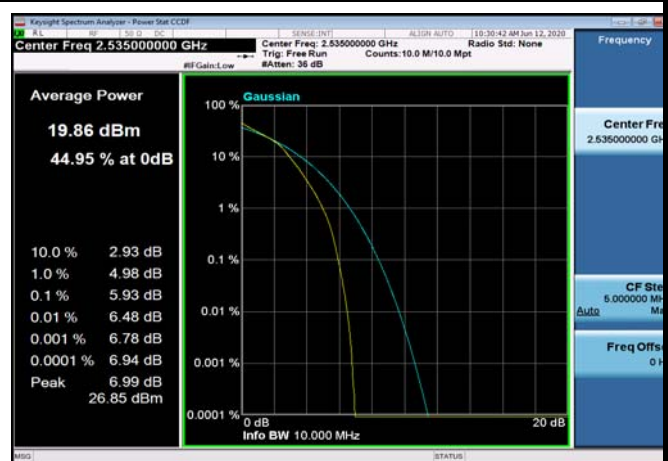
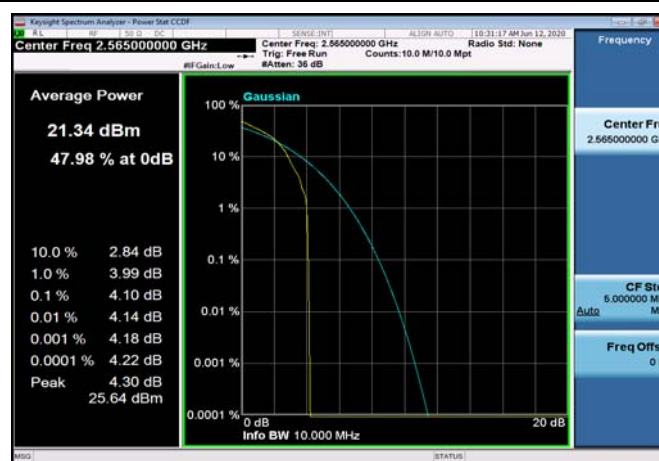
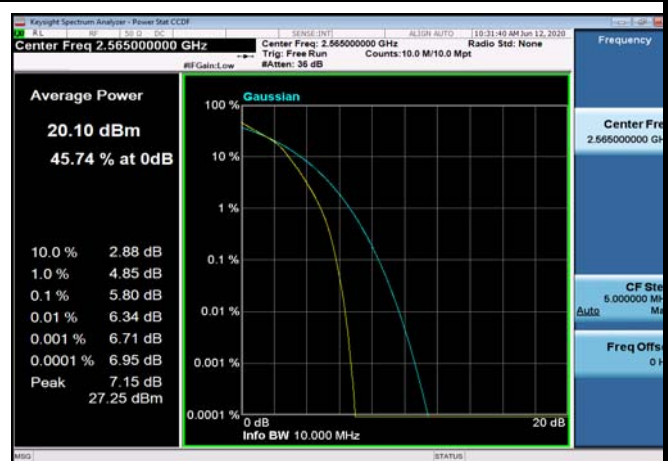
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_Q16FDD04_MidRange_20MHz_1732.5_OneRB
_high_Q16FDD04_MidRange_20MHz_1732.5_fullRB
_Q16FDD04_HighRange_20MHz_1745_OneRB
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_Q16

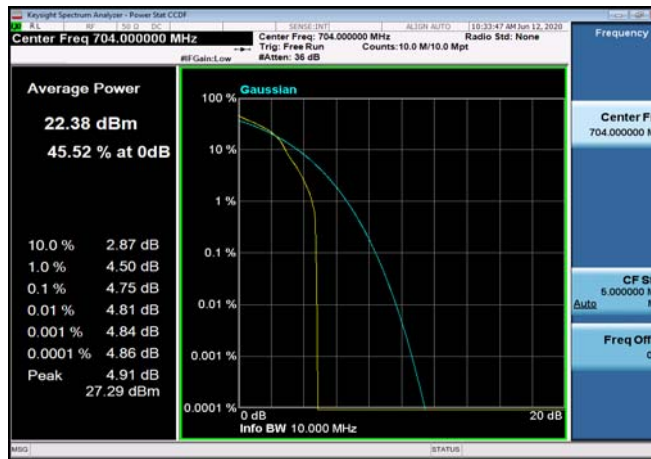
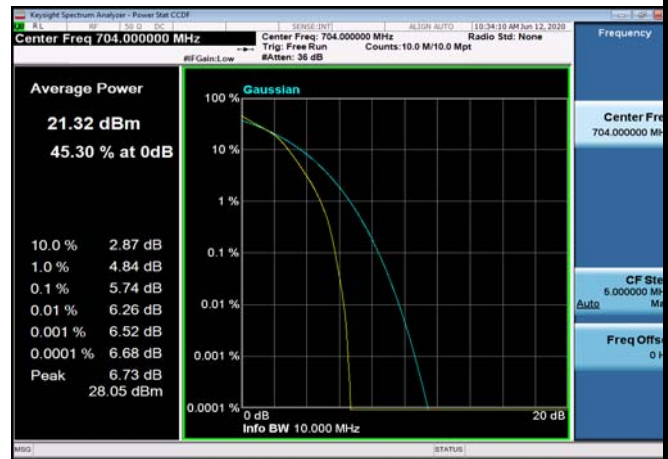
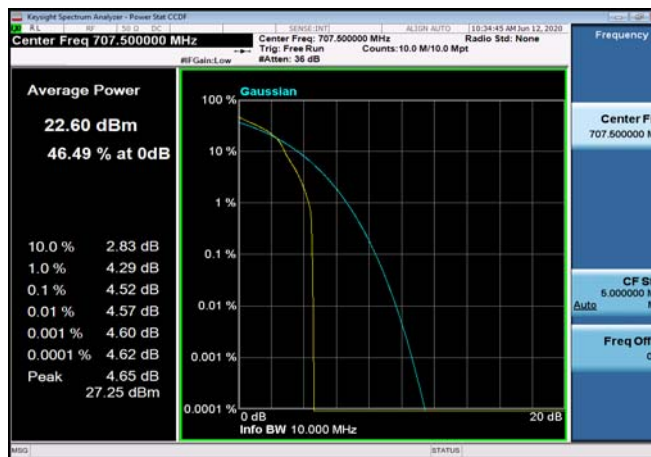
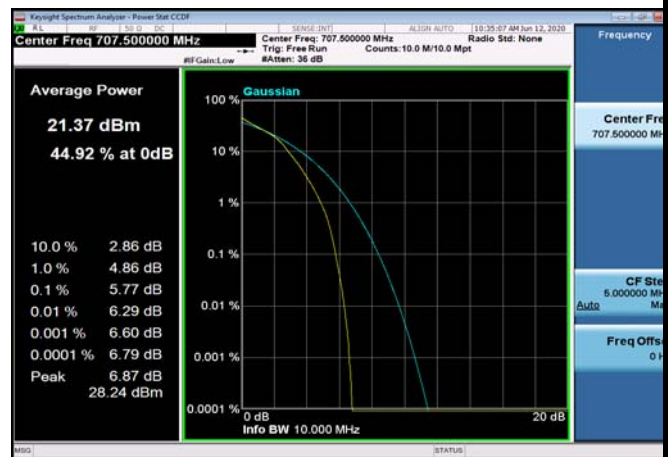
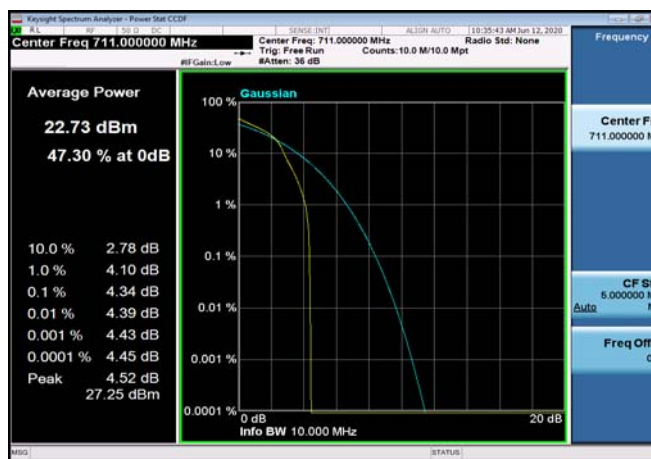
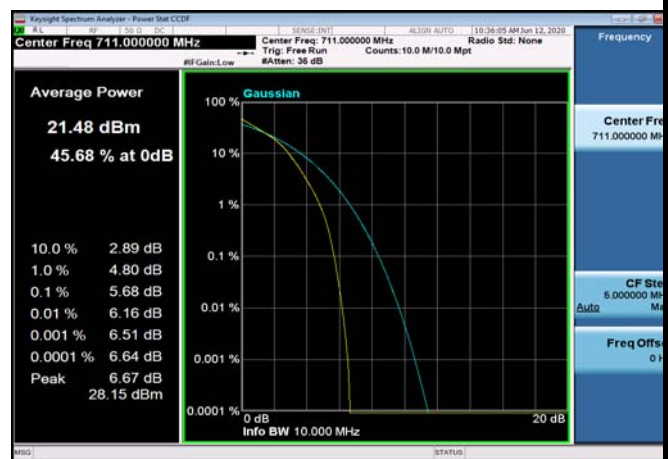
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FDD66_LowRange_20MHz_1720_fullRB
_Q16

FDD66_MidRange_20MHz_1745_OneRB
_high_Q16

FDD66_MidRange_20MHz_1745_fullRB
_Q16

FDD66_HighRange_20MHz_1770_OneRB
_high_Q16

FDD66_HighRange_20MHz_1770_fullRB
_Q16


FDD07_LowRange_20MHz_2510_OneRB
_high_Q16FDD07_LowRange_20MHz_2510_fullRB
_Q16FDD07_MidRange_20MHz_2535_OneRB
_high_Q16FDD07_MidRange_20MHz_2535_fullRB
_Q16FDD07_HighRange_20MHz_2560_OneRB
_high_Q16FDD07_HighRange_20MHz_2560_fullRB
_Q16

TDD41_LowRange_20MHz_2506_OneRB
_high_Q16

TDD41_LowRange_20MHz_2506_fullRB
_Q16

TDD41_MidRange_20MHz_2593_OneRB
_high_Q16

TDD41_MidRange_20MHz_2593_fullRB
_Q16

TDD41_HighRange_20MHz_2680_OneRB
_high_Q16

TDD41_HighRange_20MHz_2680_fullRB
_Q16


FDD05_LowRange_10MHz_829_OneRB
_high_Q16FDD05_LowRange_10MHz_829_fullRB
_Q16FDD05_MidRange_10MHz_836.5_OneRB
_high_Q16FDD05_MidRange_10MHz_836.5_fullRB
_Q16FDD05_HighRange_10MHz_844_OneRB
_high_Q16FDD05_HighRange_10MHz_844_fullRB
_Q16

FDD07_LowRange_10MHz_2505_OneRB
_high_Q16

FDD07_LowRange_10MHz_2505_fullRB
_Q16

FDD07_MidRange_10MHz_2535_OneRB
_high_Q16

FDD07_MidRange_10MHz_2535_fullRB
_Q16

FDD07_HighRange_10MHz_2565_OneRB
_high_Q16

FDD07_HighRange_10MHz_2565_fullRB
_Q16


FDD12_LowRange_10MHz_704_OneRB
_high_Q16FDD12_LowRange_10MHz_704_fullRB
_Q16FDD12_MidRange_10MHz_707.5_OneRB
_high_Q16FDD12_MidRange_10MHz_707.5_fullRB
_Q16FDD12_HighRange_10MHz_711_OneRB
_high_Q16FDD12_HighRange_10MHz_711_fullRB
_Q16

**99% Occupied Bandwidth****Test Result and Data**

Occupied Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	Occupied Bandwidth(99%) (MHz)
FDD02	MidRange	1.4	1880	QPSK	1.091
FDD02	MidRange	1.4	1880	Q16	1.087
FDD02	MidRange	3	1880	QPSK	2.678
FDD02	MidRange	3	1880	Q16	2.678
FDD02	MidRange	5	1880	QPSK	4.489
FDD02	MidRange	5	1880	Q16	4.488
FDD02	MidRange	10	1880	QPSK	8.92
FDD02	MidRange	10	1880	Q16	8.914
FDD02	MidRange	15	1880	QPSK	13.436
FDD02	MidRange	15	1880	Q16	13.438
FDD02	MidRange	20	1880	QPSK	17.858
FDD02	MidRange	20	1880	Q16	17.855
FDD04	MidRange	1.4	1732.5	QPSK	1.087
FDD04	MidRange	1.4	1732.5	Q16	1.086
FDD04	MidRange	3	1732.5	QPSK	2.679
FDD04	MidRange	3	1732.5	Q16	2.678
FDD04	MidRange	5	1732.5	QPSK	4.49
FDD04	MidRange	5	1732.5	Q16	4.488
FDD04	MidRange	10	1732.5	QPSK	8.922
FDD04	MidRange	10	1732.5	Q16	8.919
FDD04	MidRange	15	1732.5	QPSK	13.456
FDD04	MidRange	15	1732.5	Q16	13.457
FDD04	MidRange	20	1732.5	QPSK	17.899
FDD04	MidRange	20	1732.5	Q16	17.899
FDD05	MidRange	1.4	836.5	QPSK	1.086
FDD05	MidRange	1.4	836.5	Q16	1.085



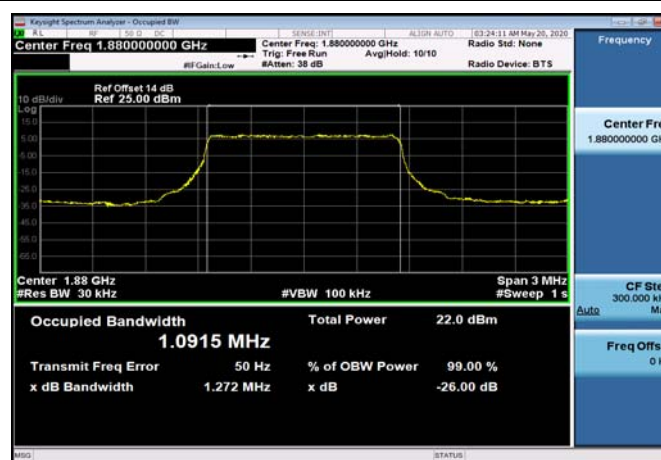
FDD05	MidRange	3	836.5	QPSK	2.679
FDD05	MidRange	3	836.5	Q16	2.679
FDD05	MidRange	5	836.5	QPSK	4.494
FDD05	MidRange	5	836.5	Q16	4.492
FDD05	MidRange	10	836.5	QPSK	8.949
FDD05	MidRange	10	836.5	Q16	8.938
FDD07	MidRange	5	2535	QPSK	4.483
FDD07	MidRange	5	2535	Q16	4.49
FDD07	MidRange	10	2535	QPSK	8.925
FDD07	MidRange	10	2535	Q16	8.916
FDD07	MidRange	15	2535	QPSK	13.436
FDD07	MidRange	15	2535	Q16	13.441
FDD07	MidRange	20	2535	QPSK	17.859
FDD07	MidRange	20	2535	Q16	17.863
FDD12	MidRange	1.4	707.5	QPSK	1.085
FDD12	MidRange	1.4	707.5	Q16	1.085
FDD12	MidRange	3	707.5	QPSK	2.678
FDD12	MidRange	3	707.5	Q16	2.677
FDD12	MidRange	5	707.5	QPSK	4.489
FDD12	MidRange	5	707.5	Q16	4.488
FDD12	MidRange	10	707.5	QPSK	8.924
FDD12	MidRange	10	707.5	Q16	8.92
FDD17	MidRange	5	710	QPSK	4.483
FDD17	MidRange	5	710	Q16	4.49
FDD17	MidRange	10	710	QPSK	8.924
FDD17	MidRange	10	710	Q16	8.917
TDD41	MidRange	5	2593	QPSK	4.479
TDD41	MidRange	5	2593	Q16	4.484
TDD41	MidRange	10	2593	QPSK	8.908
TDD41	MidRange	10	2593	Q16	8.92
TDD41	MidRange	15	2593	QPSK	13.44
TDD41	MidRange	15	2593	Q16	13.435



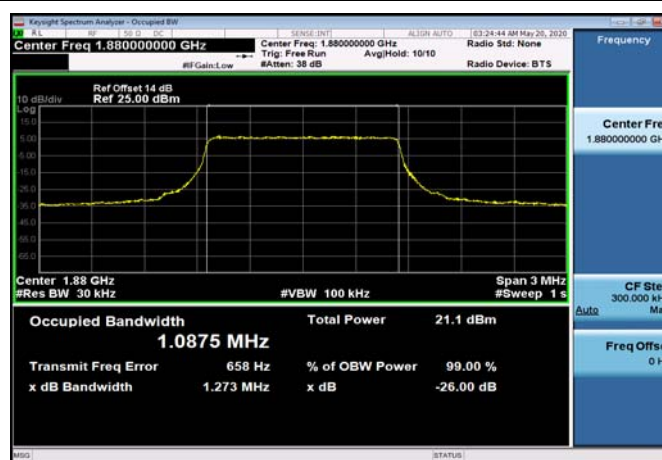
TDD41	MidRange	20	2593	QPSK	17.865
TDD41	MidRange	20	2593	Q16	17.86
FDD66	MidRange	1.4	1745	QPSK	1.086
FDD66	MidRange	1.4	1745	Q16	1.087
FDD66	MidRange	3	1745	QPSK	2.679
FDD66	MidRange	3	1745	Q16	2.678
FDD66	MidRange	5	1745	QPSK	4.484
FDD66	MidRange	5	1745	Q16	4.483
FDD66	MidRange	10	1745	QPSK	8.931
FDD66	MidRange	10	1745	Q16	8.923
FDD66	MidRange	15	1745	QPSK	13.451
FDD66	MidRange	15	1745	Q16	13.45
FDD66	MidRange	20	1745	QPSK	17.908
FDD66	MidRange	20	1745	Q16	17.903



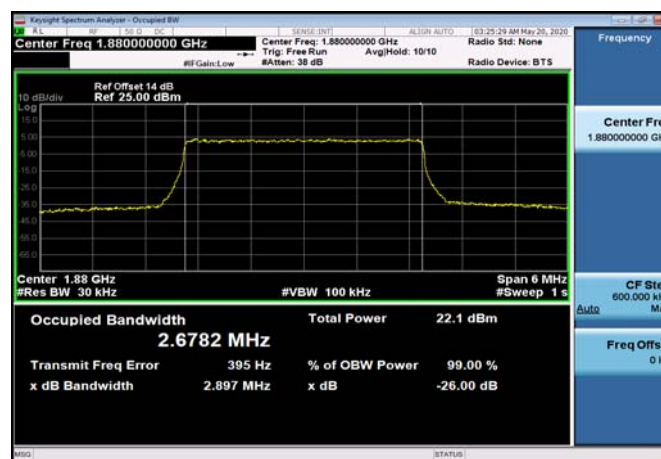
FDD02_MidRange_1.4_1880_QPSK



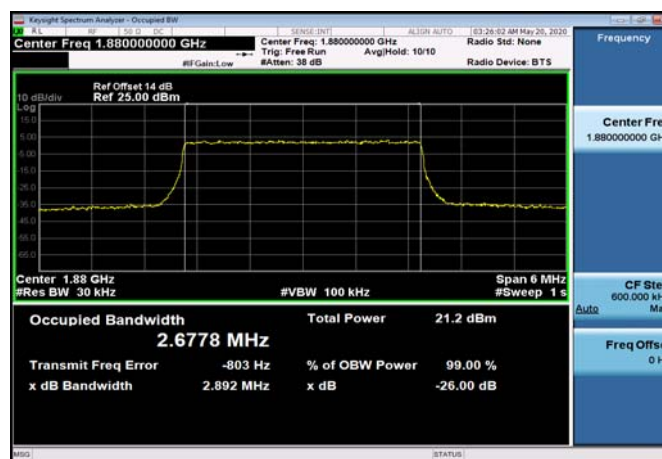
FDD02_MidRange_1.4_1880_Q16



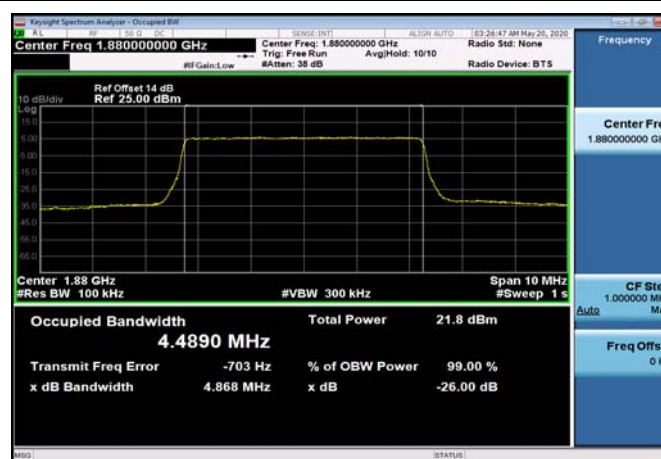
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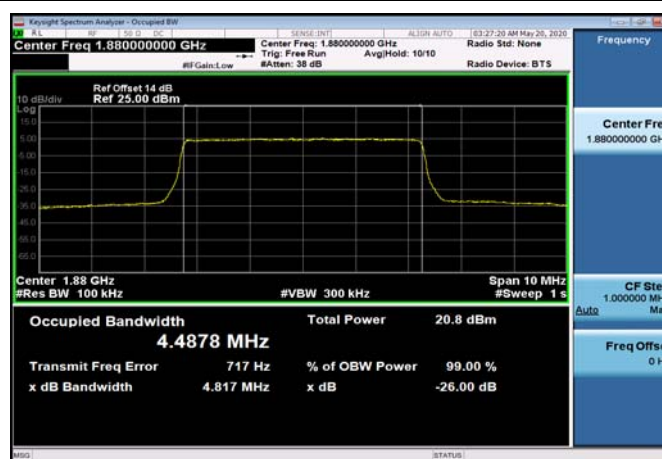
FDD02_MidRange_3_1880_Q16



FDD02_MidRange_5_1880_QPSK

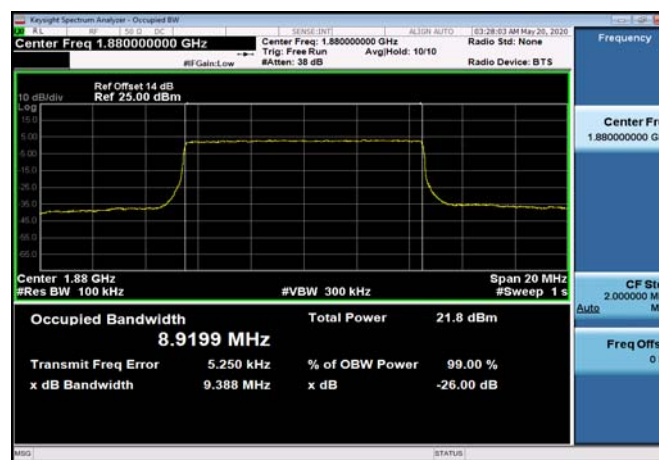


FDD02_MidRange_5_1880_Q16

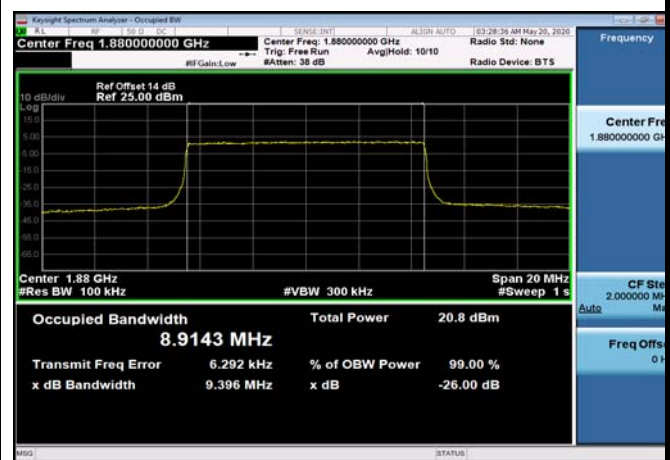




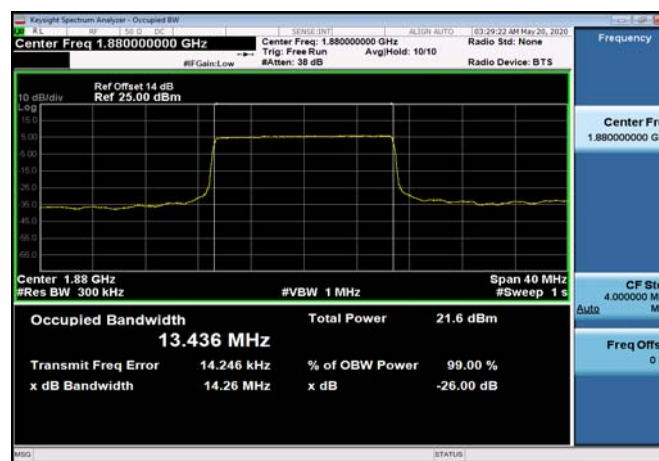
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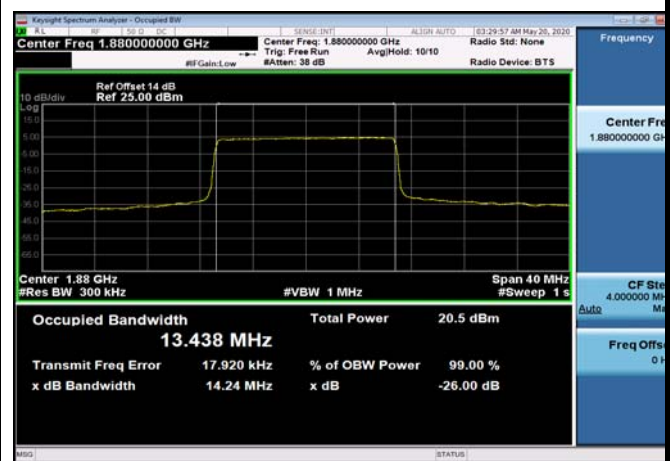
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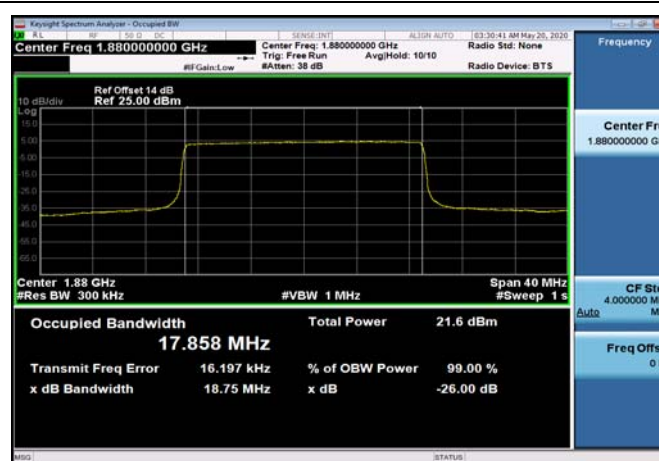
FDD02_MidRange_15_1880_QPSK



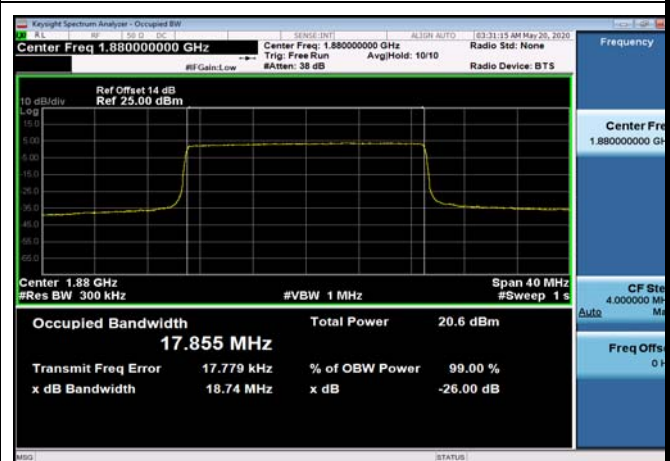
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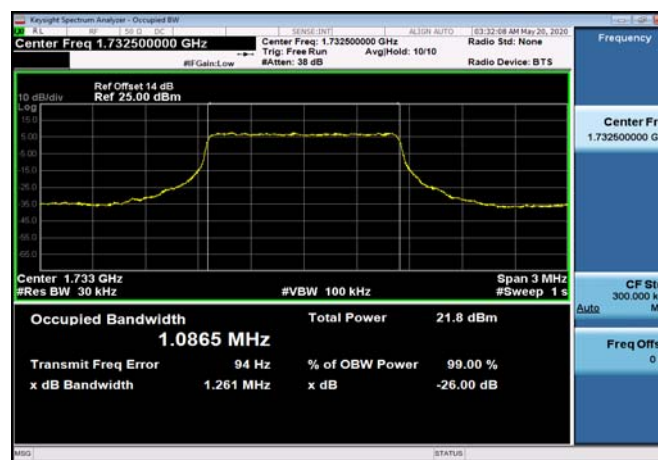
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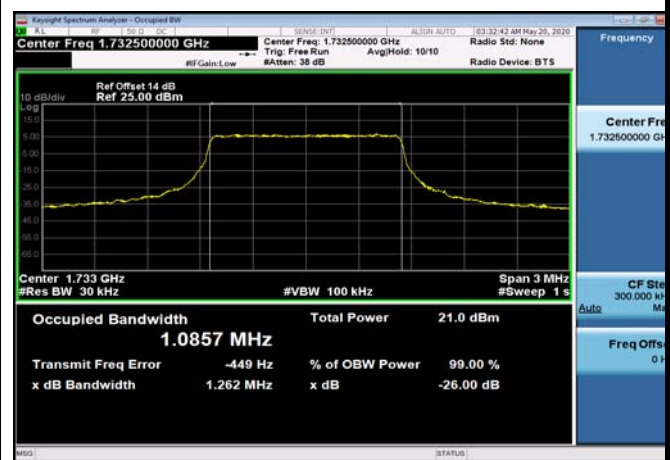
FDD02_MidRange_20_1880_Q16



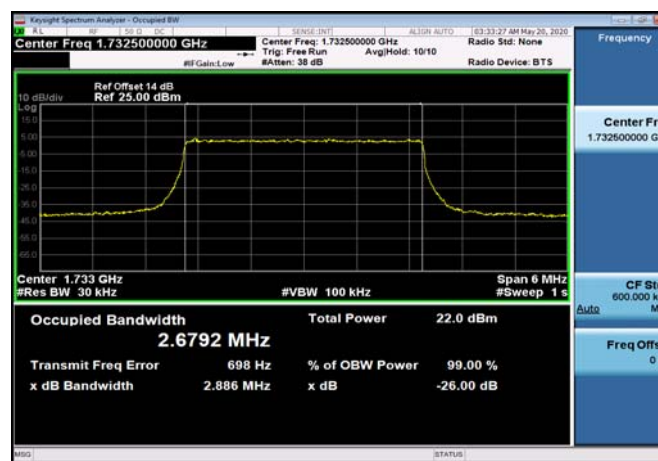
FDD04_MidRange_1.4_1732.5_QPSK



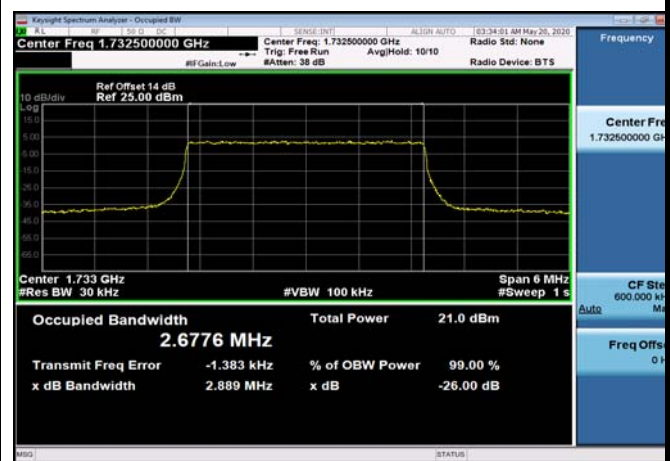
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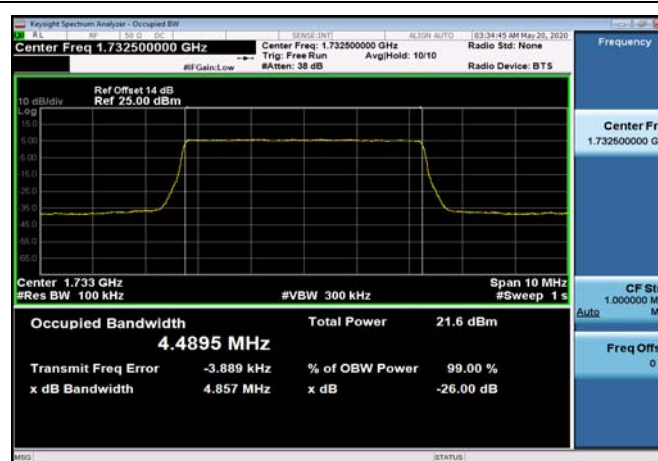
FDD04_MidRange_3_1732.5_QPSK



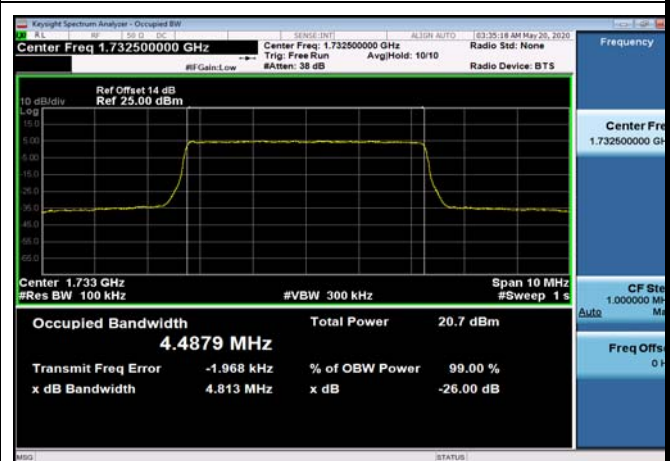
FDD04_MidRange_3_1732.5_Q16



FDD04_MidRange_5_1732.5_QPSK



FDD04_MidRange_5_1732.5_Q16

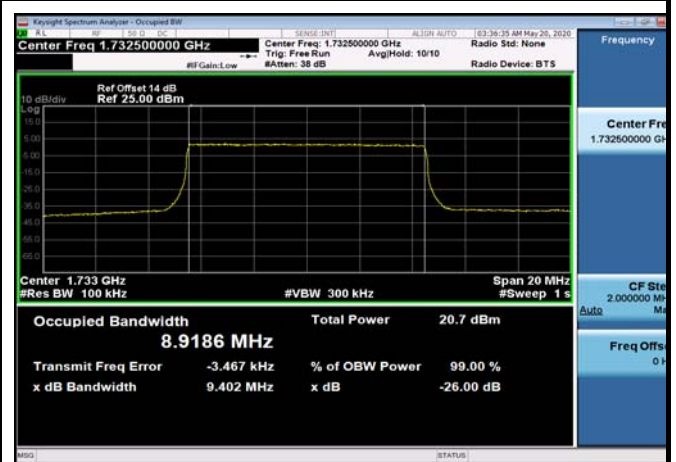




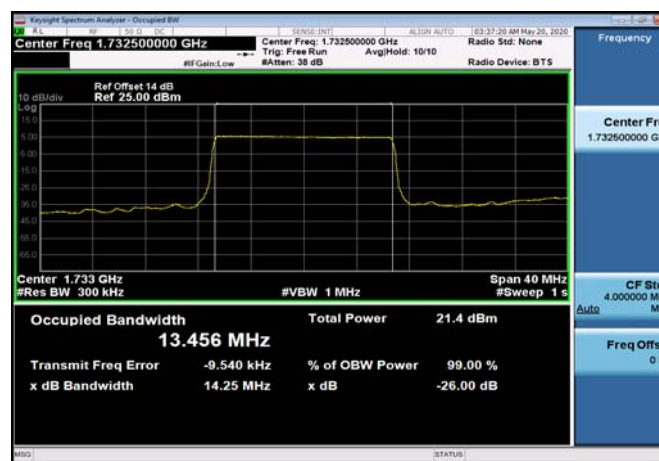
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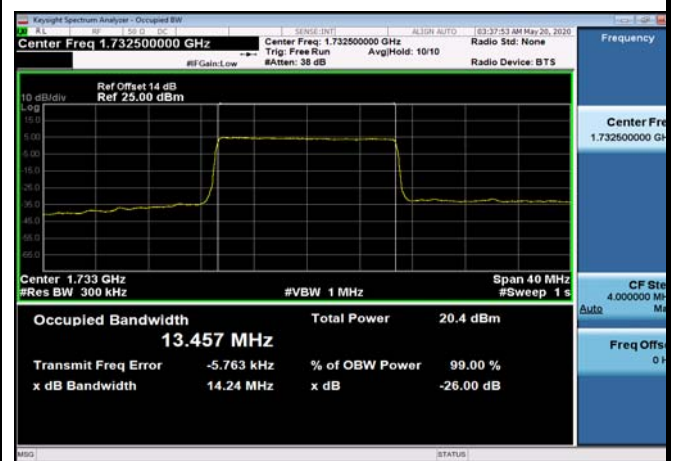
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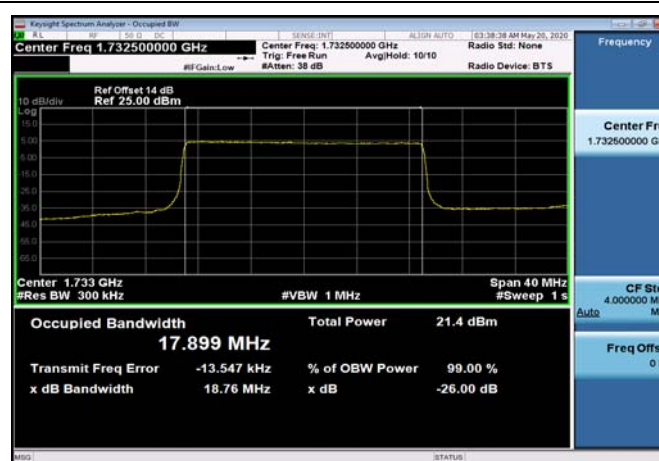
FDD04_MidRange_15_1732.5_QPSK



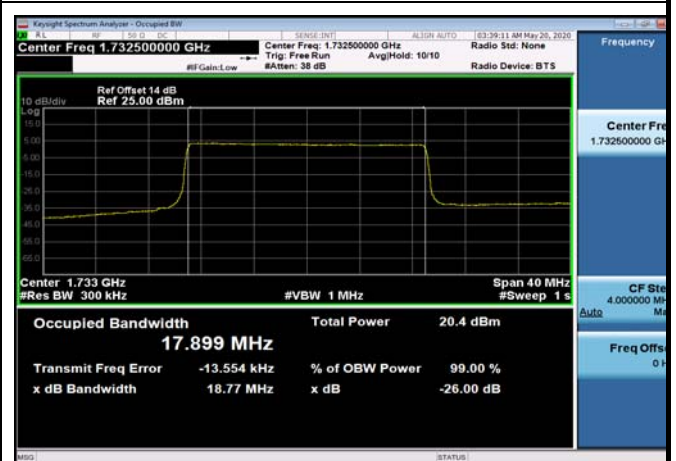
FDD04_MidRange_15_1732.5_Q16



FDD04_MidRange_20_1732.5_QPSK

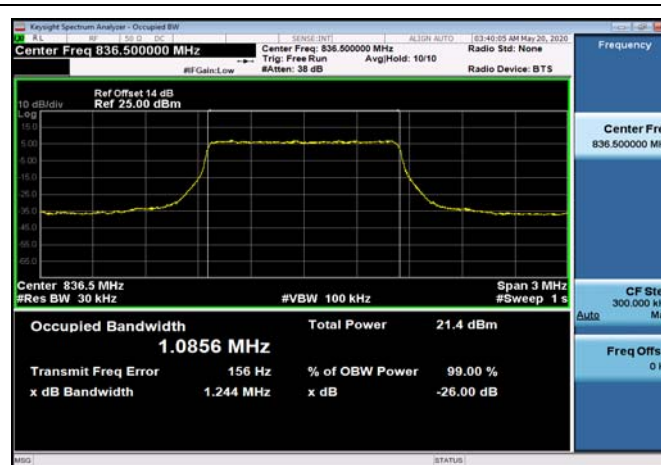


FDD04_MidRange_20_1732.5_Q16

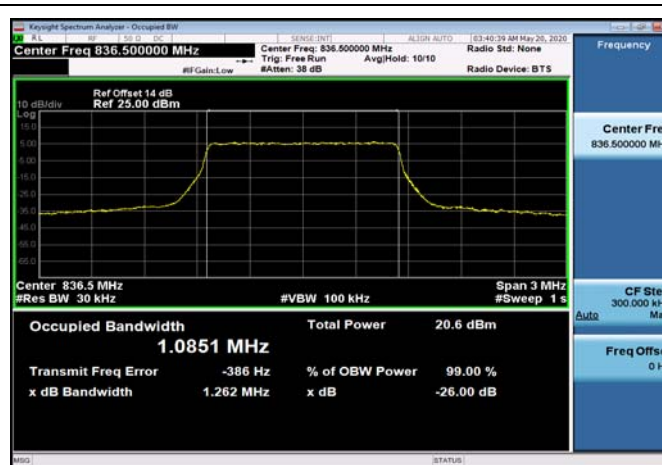




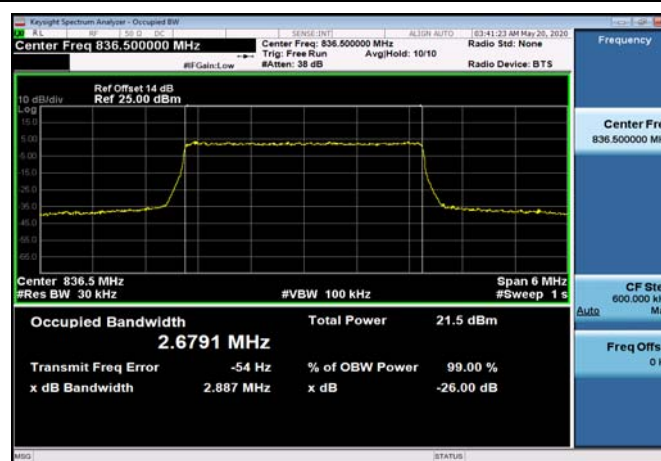
FDD05_MidRange_1.4_836.5_QPSK



FDD05_MidRange_1.4_836.5_Q16



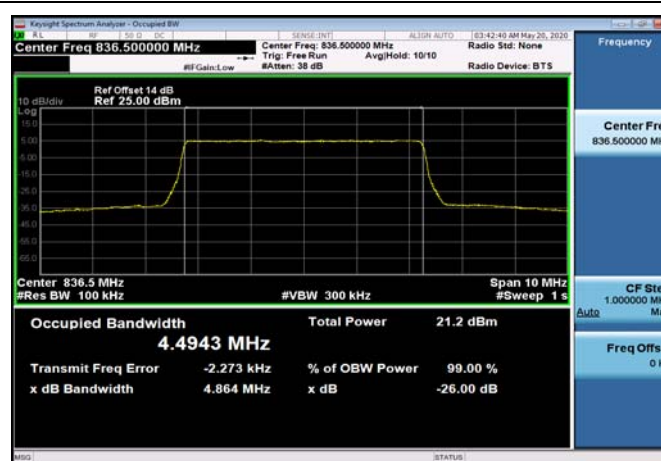
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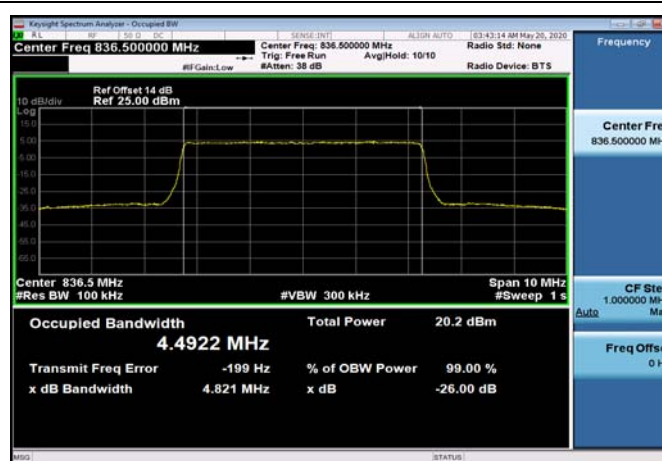
FDD05_MidRange_3_836.5_Q16



FDD05_MidRange_5_836.5_QPSK

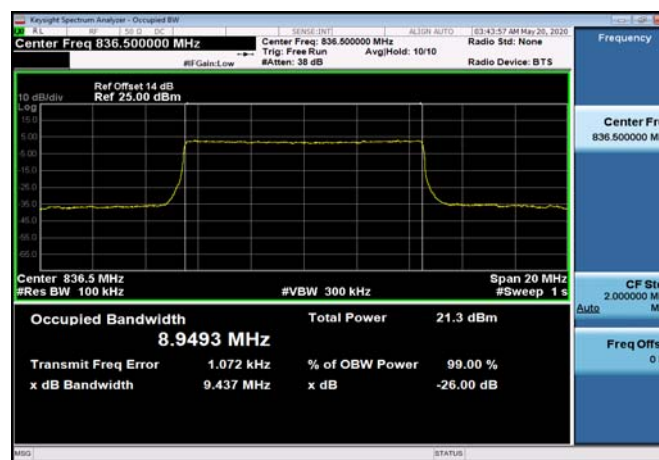


FDD05_MidRange_5_836.5_Q16

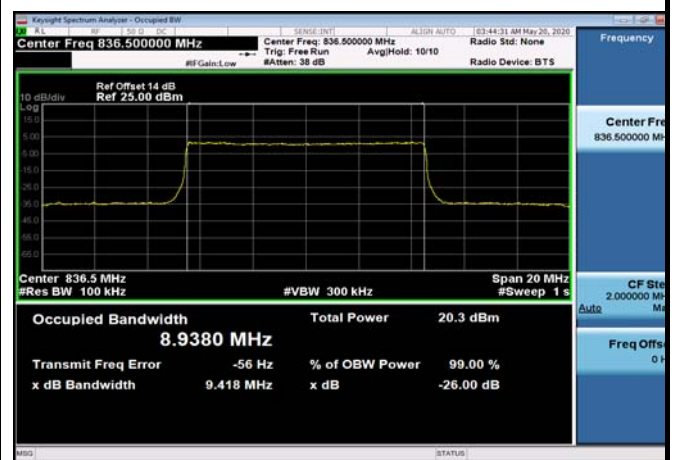




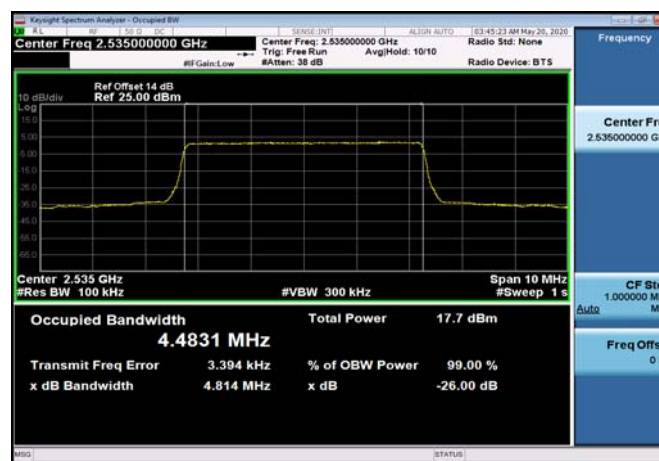
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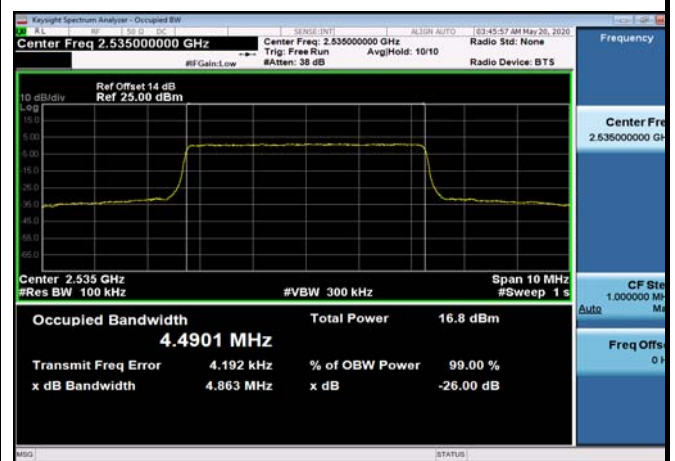
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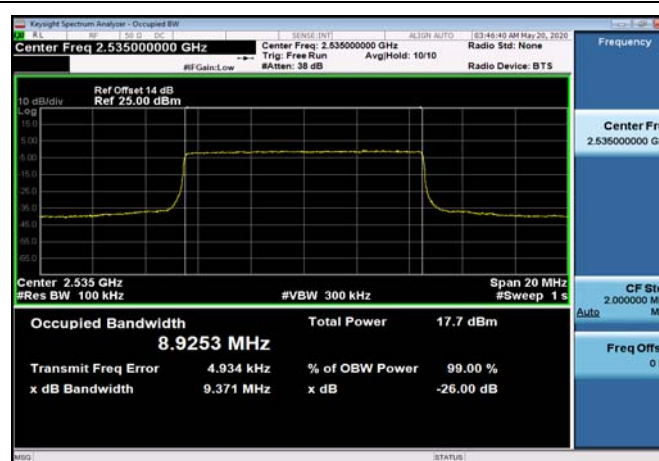
FDD07_MidRange_5_2535_QPSK



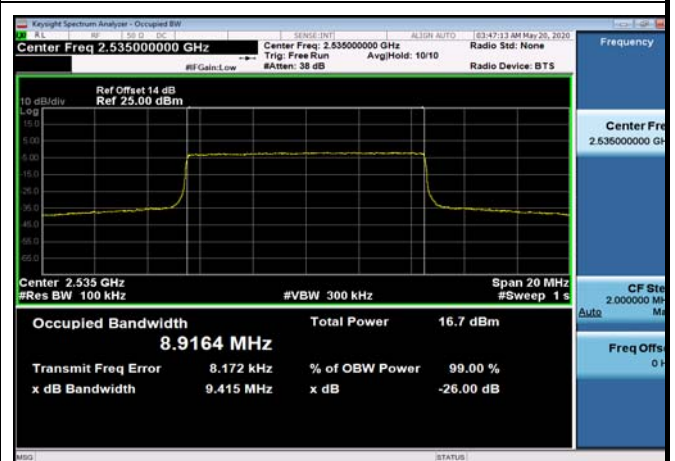
FDD07_MidRange_5_2535_Q16



FDD07_MidRange_10_2535_QPSK

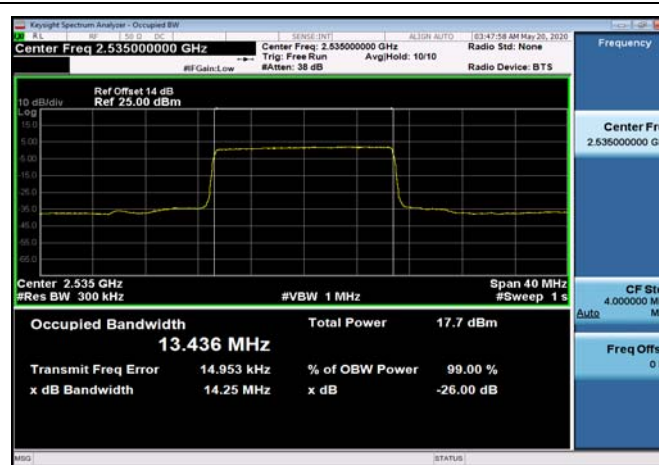


FDD07_MidRange_10_2535_Q16

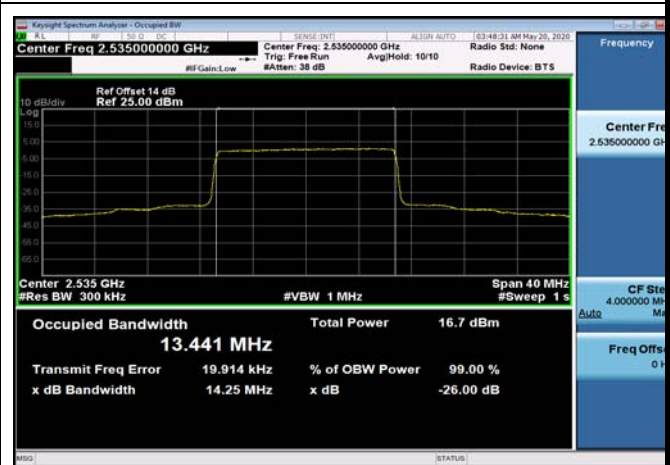




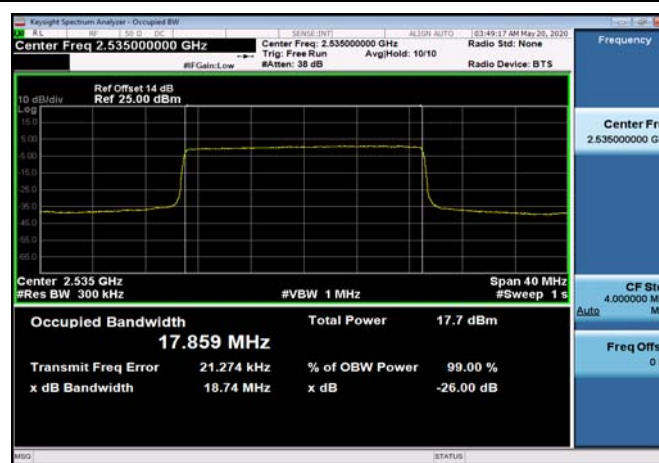
FDD07_MidRange_15_2535_QPSK



FDD07_MidRange_15_2535_Q16



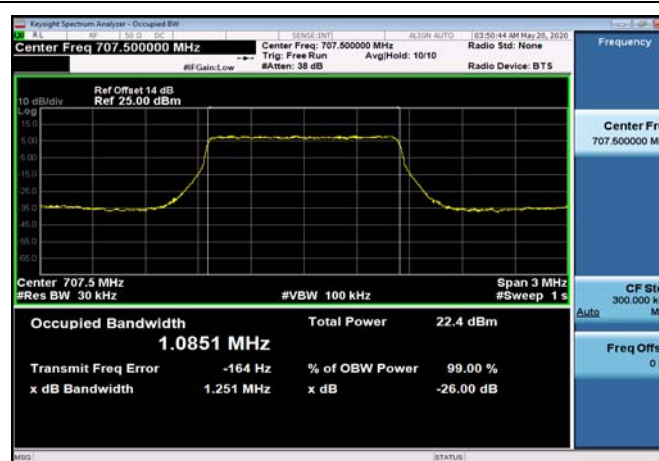
FDD07_MidRange_20_2535_QPSK



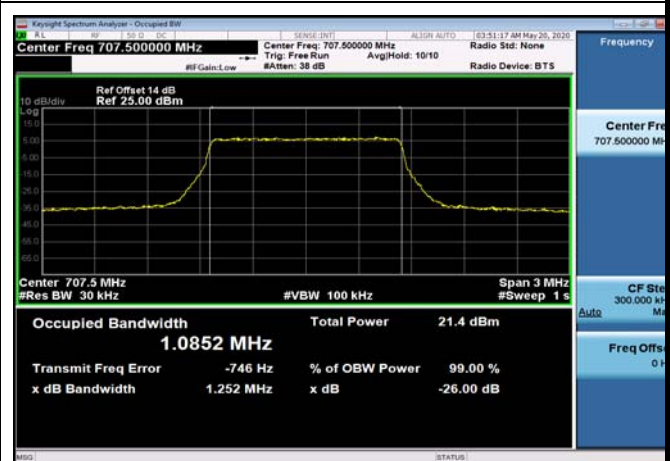
FDD07_MidRange_20_2535_Q16



FDD12_MidRange_1.4_707.5_QPSK

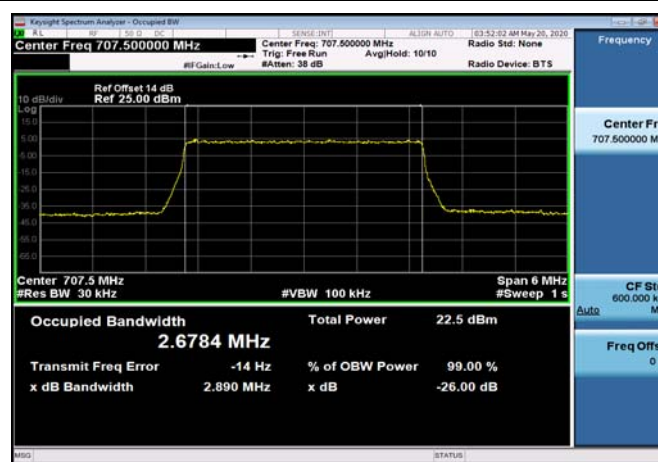


FDD12_MidRange_1.4_707.5_Q16

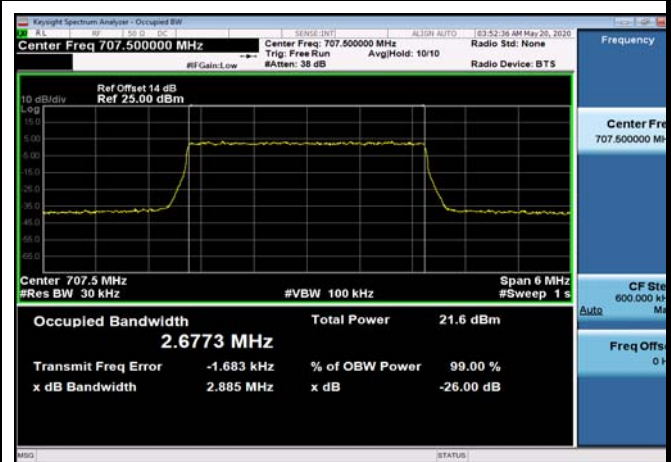




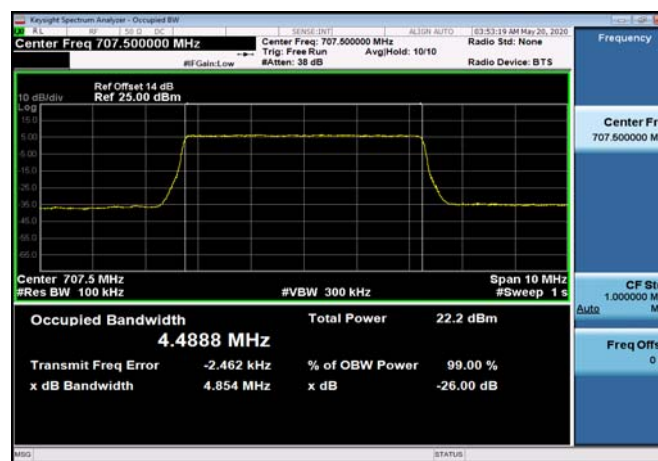
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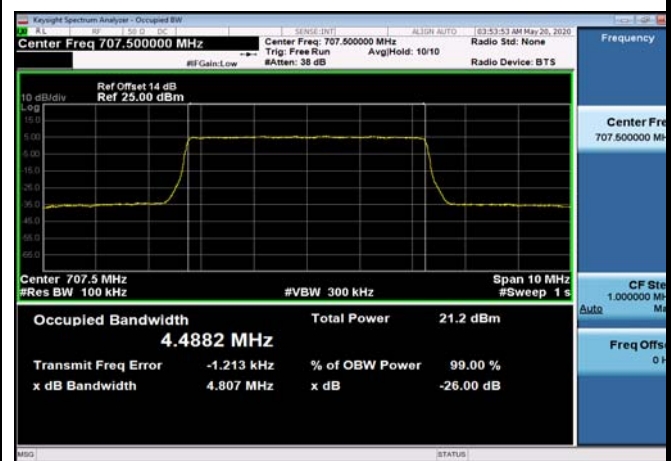
FDD12_MidRange_3_707.5_Q16



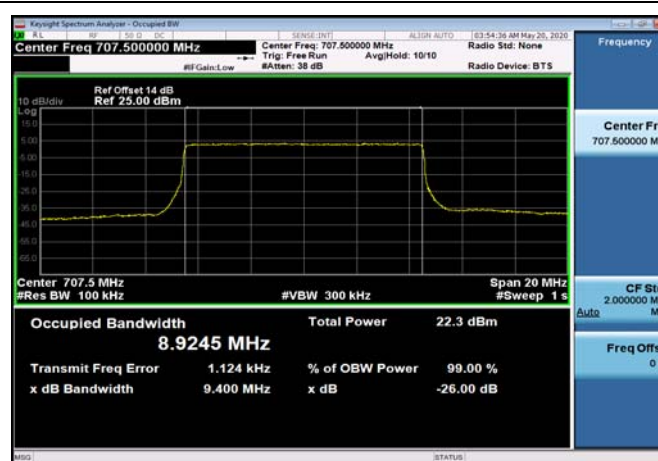
FDD12_MidRange_5_707.5_QPSK



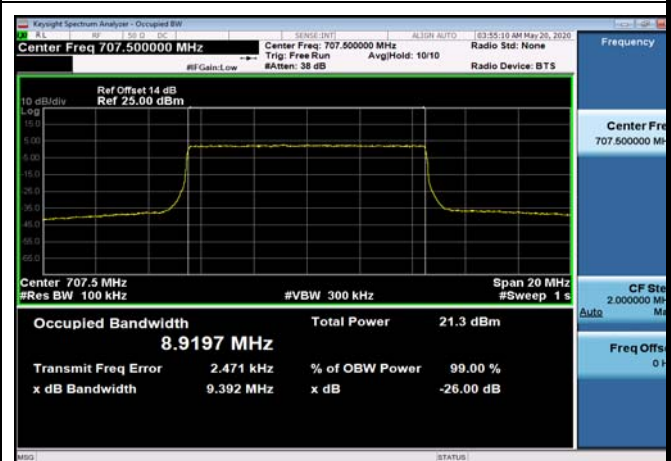
FDD12_MidRange_5_707.5_Q16



FDD12_MidRange_10_707.5_QPSK

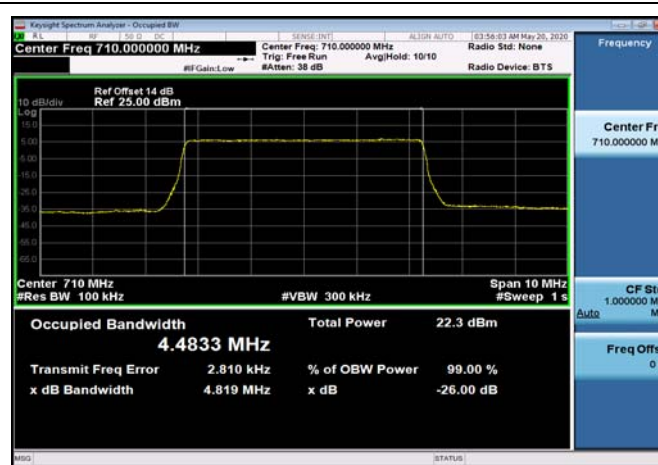


FDD12_MidRange_10_707.5_Q16

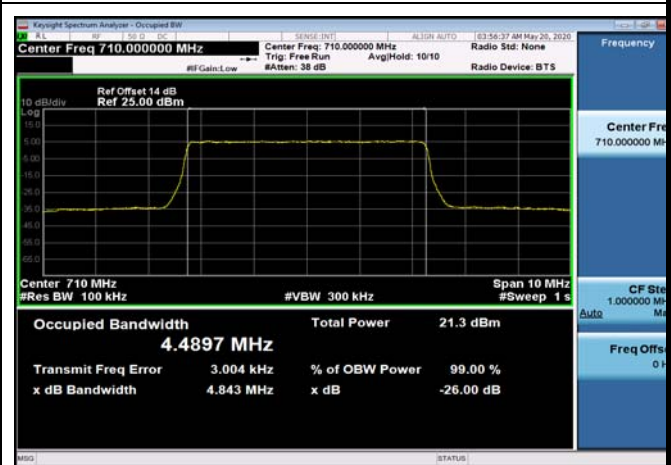




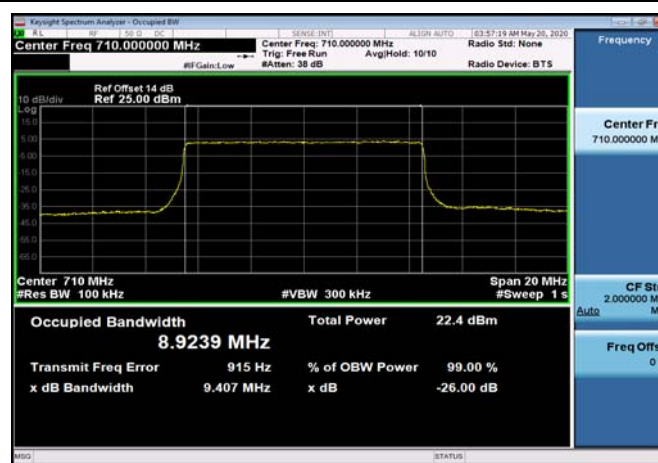
FDD17_MidRange_5_710_QPSK



FDD17_MidRange_5_710_Q16



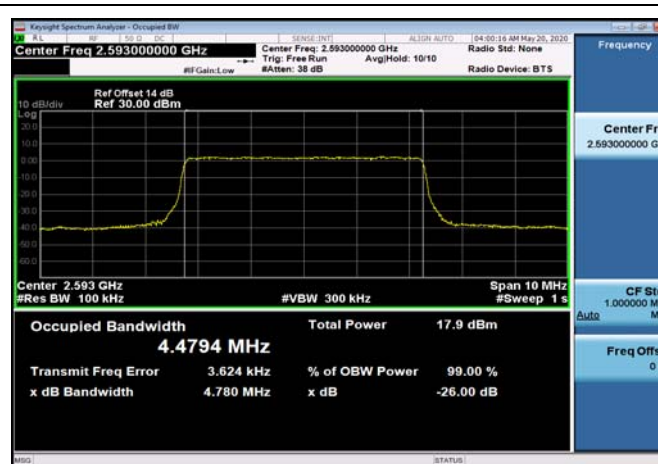
FDD17_MidRange_10_710_QPSK



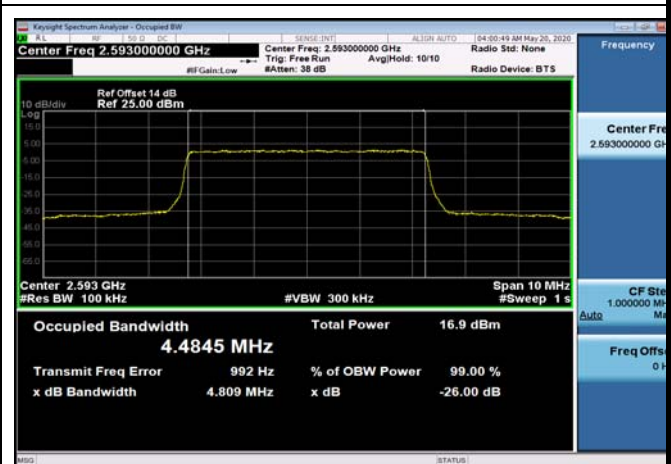
FDD17_MidRange_10_710_Q16



TDD41_MidRange_5_2593_QPSK



TDD41_MidRange_5_2593_Q16

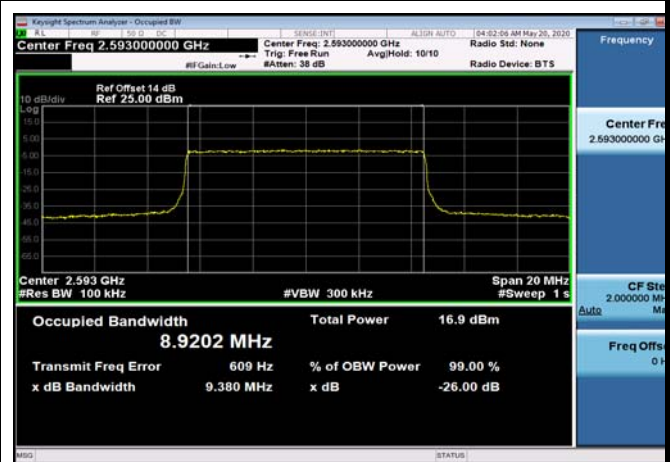




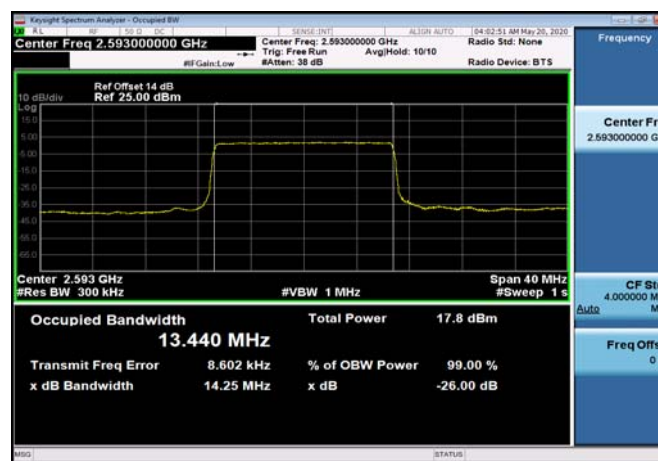
TDD41_MidRange_10_2593_QPSK



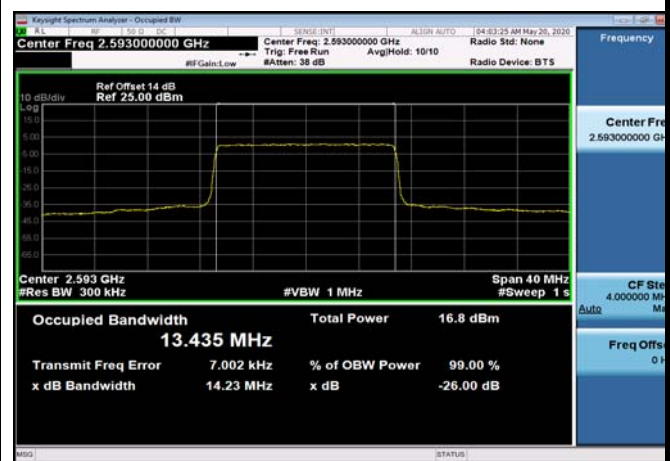
TDD41_MidRange_10_2593_Q16



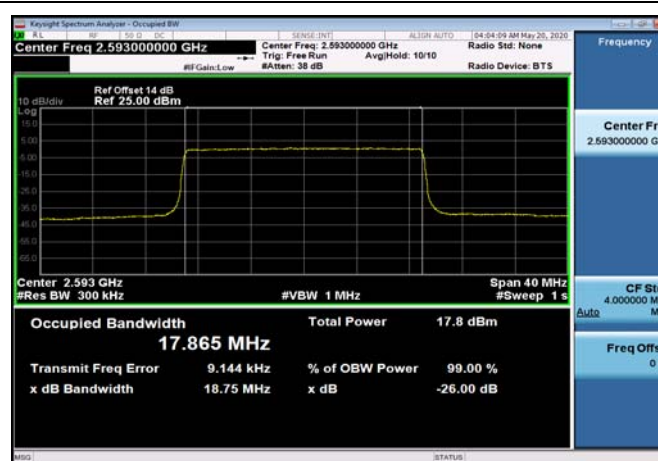
TDD41_MidRange_15_2593_QPSK



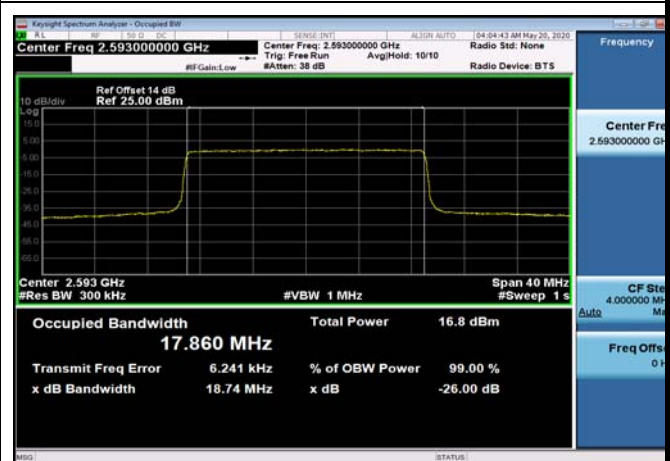
TDD41_MidRange_15_2593_Q16



TDD41_MidRange_20_2593_QPSK

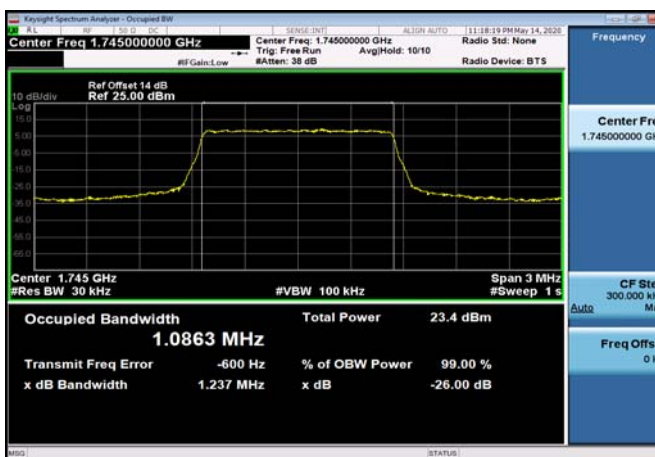


TDD41_MidRange_20_2593_Q16

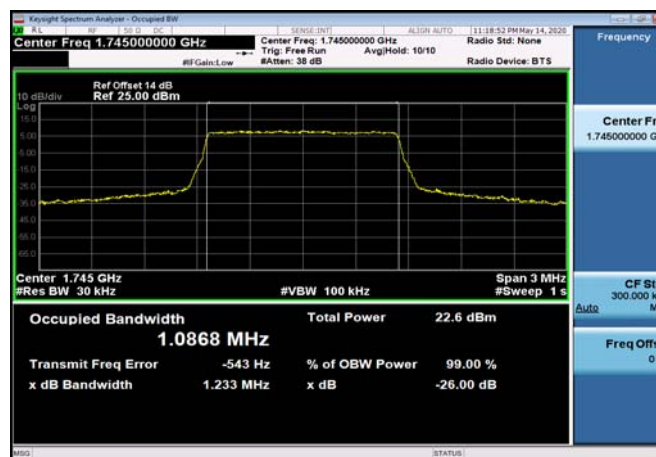




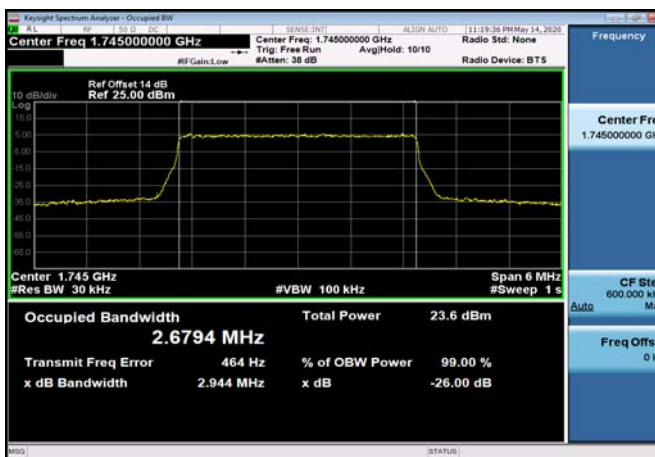
FDD66_MidRange_1.4_1745_QPSK



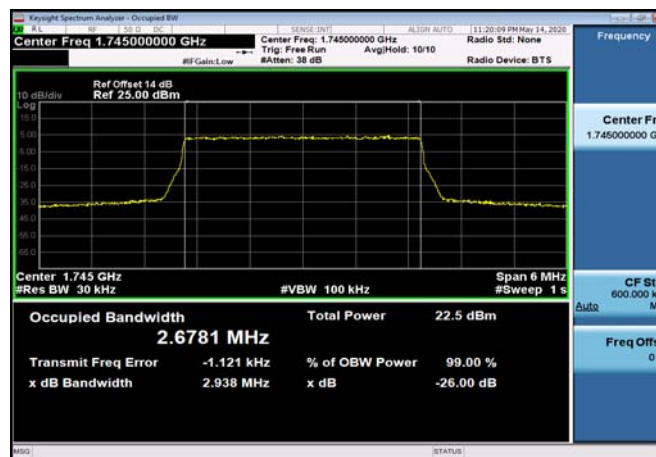
FDD66_MidRange_1.4_1745_Q16



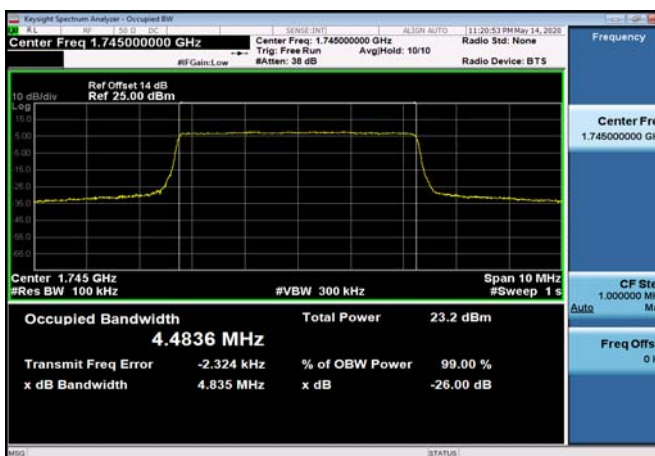
FDD66_MidRange_3_1745_QPSK



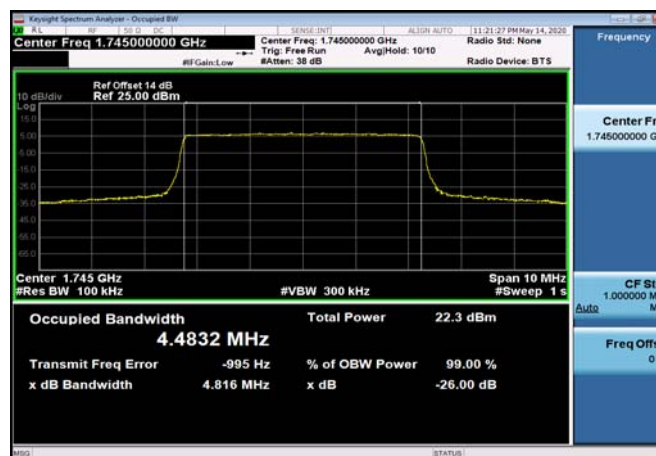
FDD66_MidRange_3_1745_Q16



FDD66_MidRange_5_1745_QPSK

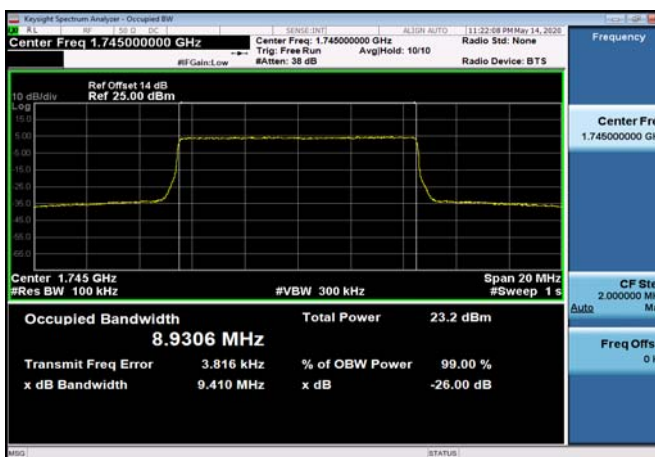


FDD66_MidRange_5_1745_Q16

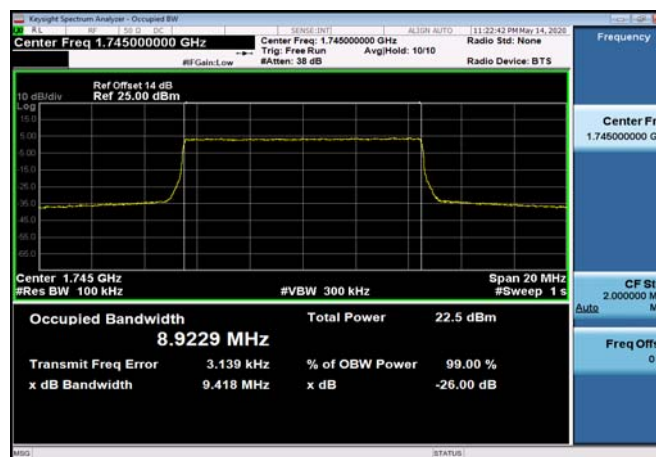




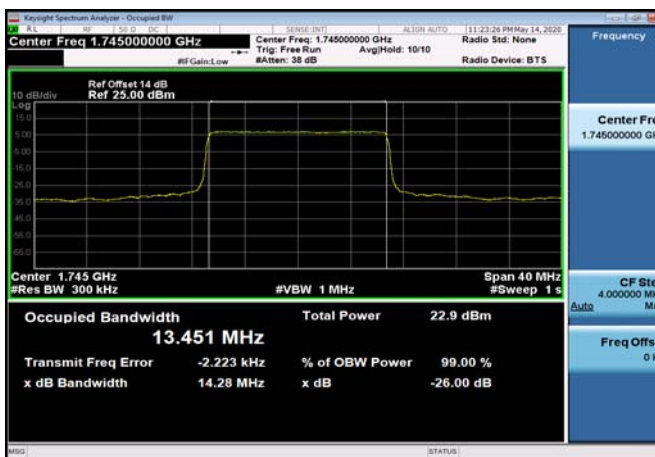
FDD66_MidRange_10_1745_QPSK



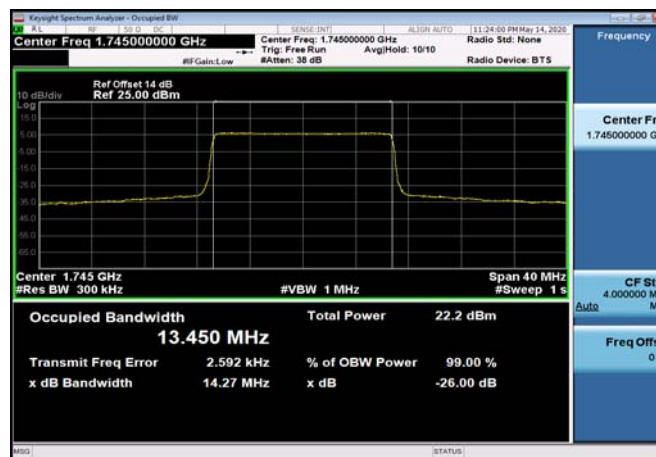
FDD66_MidRange_10_1745_Q16



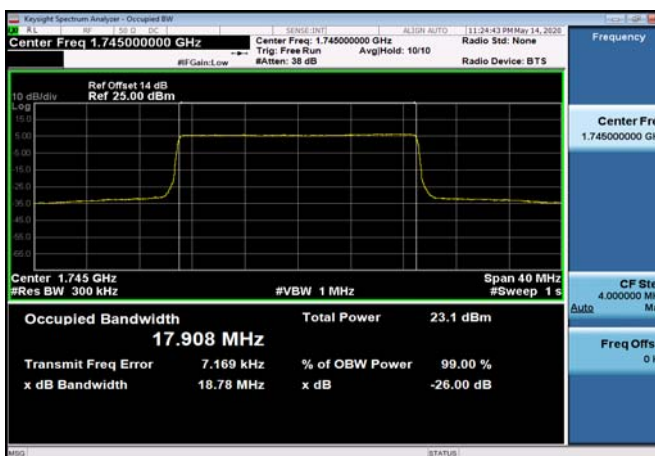
FDD66_MidRange_15_1745_QPSK



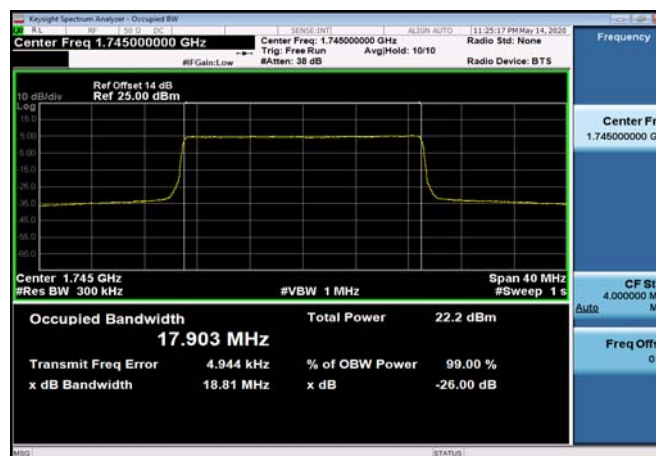
FDD66_MidRange_15_1745_Q16



FDD66_MidRange_20_1745_QPSK



FDD66_MidRange_20_1745_Q16



**26dB Bandwidth****Test Result and Data**

Emission Bandwidth NormalTC_NormalVol					
Band	Range	BandWidth	Frequency (MHz)	Modulation	EmissionBandwidth (MHz)
FDD02	MidRange	1.4	1880	QPSK	1.27
FDD02	MidRange	1.4	1880	Q16	1.28
FDD02	MidRange	3	1880	QPSK	2.97
FDD02	MidRange	3	1880	Q16	2.96
FDD02	MidRange	5	1880	QPSK	4.85
FDD02	MidRange	5	1880	Q16	4.81
FDD02	MidRange	10	1880	QPSK	9.39
FDD02	MidRange	10	1880	Q16	9.39
FDD02	MidRange	15	1880	QPSK	14.24
FDD02	MidRange	15	1880	Q16	14.23
FDD02	MidRange	20	1880	QPSK	18.74
FDD02	MidRange	20	1880	Q16	18.74
FDD04	MidRange	1.4	1732.5	QPSK	1.26
FDD04	MidRange	1.4	1732.5	Q16	1.27
FDD04	MidRange	3	1732.5	QPSK	2.97
FDD04	MidRange	3	1732.5	Q16	2.97
FDD04	MidRange	5	1732.5	QPSK	4.85
FDD04	MidRange	5	1732.5	Q16	4.81
FDD04	MidRange	10	1732.5	QPSK	9.42
FDD04	MidRange	10	1732.5	Q16	9.38
FDD04	MidRange	15	1732.5	QPSK	14.26
FDD04	MidRange	15	1732.5	Q16	14.25
FDD04	MidRange	20	1732.5	QPSK	18.76
FDD04	MidRange	20	1732.5	Q16	18.77
FDD05	MidRange	1.4	836.5	QPSK	1.24
FDD05	MidRange	1.4	836.5	Q16	1.26
FDD05	MidRange	3	836.5	QPSK	2.97
FDD05	MidRange	3	836.5	Q16	2.96

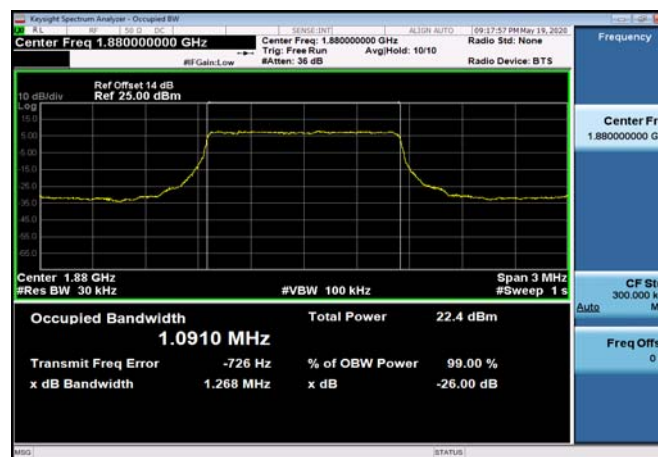


FDD05	MidRange	5	836.5	QPSK	4.84
FDD05	MidRange	5	836.5	Q16	4.82
FDD07	MidRange	10	2535	QPSK	9.36
FDD07	MidRange	10	2535	Q16	9.41
FDD07	MidRange	15	2535	QPSK	14.24
FDD07	MidRange	15	2535	Q16	14.24
FDD07	MidRange	20	2535	QPSK	18.74
FDD07	MidRange	20	2535	Q16	18.75
FDD12	MidRange	1.4	707.5	QPSK	1.25
FDD12	MidRange	1.4	707.5	Q16	1.26
FDD12	MidRange	3	707.5	QPSK	2.97
FDD12	MidRange	3	707.5	Q16	2.97
FDD12	MidRange	5	707.5	QPSK	4.86
FDD12	MidRange	5	707.5	Q16	4.81
FDD12	MidRange	10	707.5	QPSK	9.42
FDD12	MidRange	10	707.5	Q16	9.4
FDD17	MidRange	5	710	QPSK	4.83
FDD17	MidRange	5	710	Q16	4.84
FDD17	MidRange	10	710	QPSK	9.4
FDD17	MidRange	10	710	Q16	9.38
TDD41	MidRange	5	2593	QPSK	4.8
TDD41	MidRange	5	2593	Q16	4.82
TDD41	MidRange	10	2593	QPSK	9.39
TDD41	MidRange	10	2593	Q16	9.35
TDD41	MidRange	15	2593	QPSK	14.24
TDD41	MidRange	15	2593	Q16	14.24
TDD41	MidRange	20	2593	QPSK	18.75
TDD41	MidRange	20	2593	Q16	18.74
FDD66	MidRange	1.4	1745	QPSK	1.24
FDD66	MidRange	1.4	1745	Q16	1.24
FDD66	MidRange	3	1745	QPSK	3
FDD66	MidRange	3	1745	Q16	3

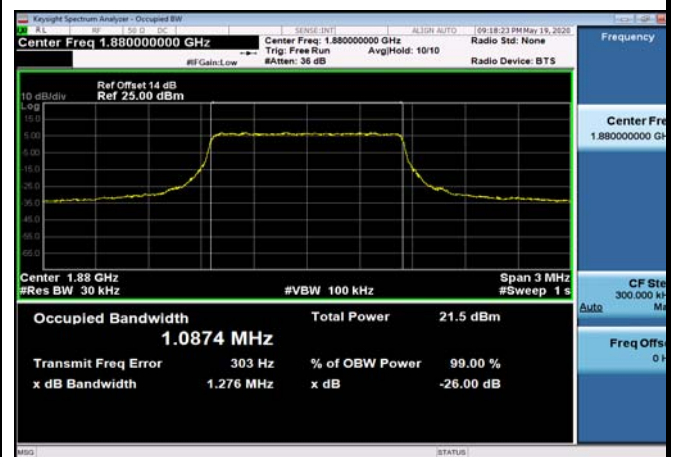


FDD66	MidRange	5	1745	QPSK	4.84
FDD66	MidRange	5	1745	Q16	4.82
FDD66	MidRange	10	1745	QPSK	9.42
FDD66	MidRange	10	1745	Q16	9.42
FDD66	MidRange	15	1745	QPSK	14.27
FDD66	MidRange	15	1745	Q16	14.27
FDD66	MidRange	20	1745	QPSK	18.78
FDD66	MidRange	20	1745	Q16	18.79

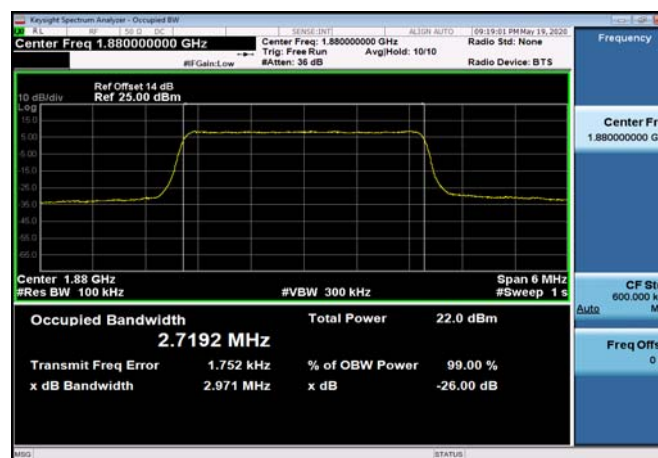
FDD02_MidRange_1.4MHz_1880MHz_QPSK



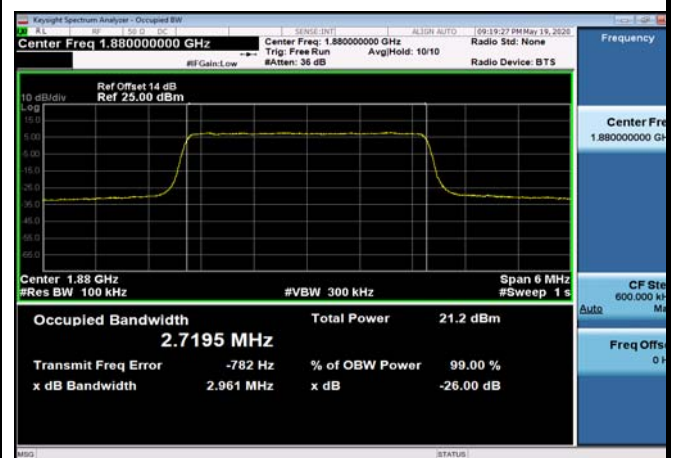
FDD02_MidRange_1.4MHz_1880MHz_Q16



FDD02_MidRange_3MHz_1880MHz_QPSK



FDD02_MidRange_3MHz_1880MHz_Q16

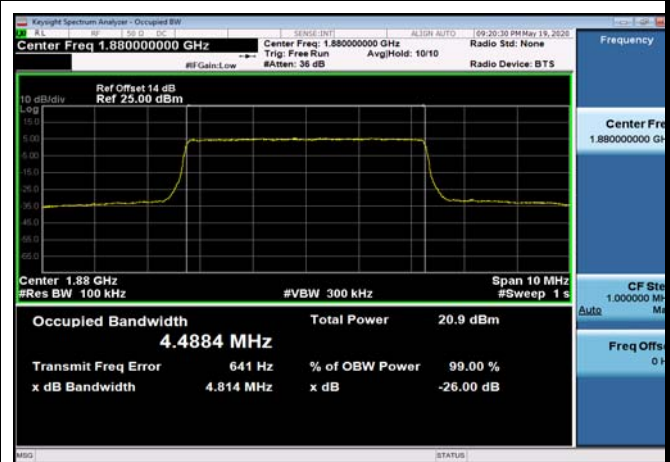




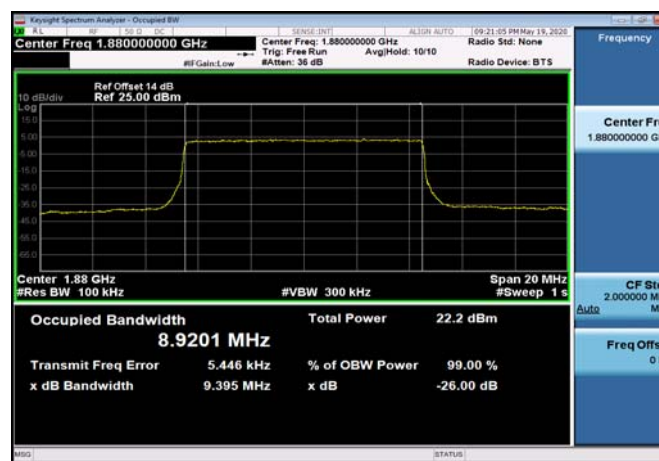
FDD02_MidRange_5MHz_1880MHz_QPSK



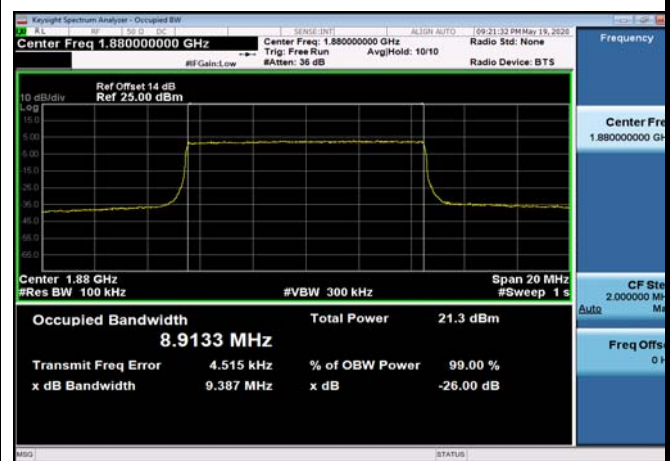
FDD02_MidRange_5MHz_1880MHz_Q16



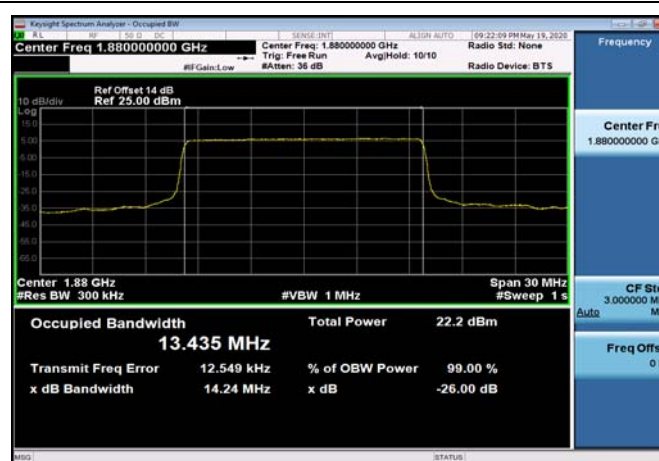
FDD02_MidRange_10MHz_1880MHz_QPSK



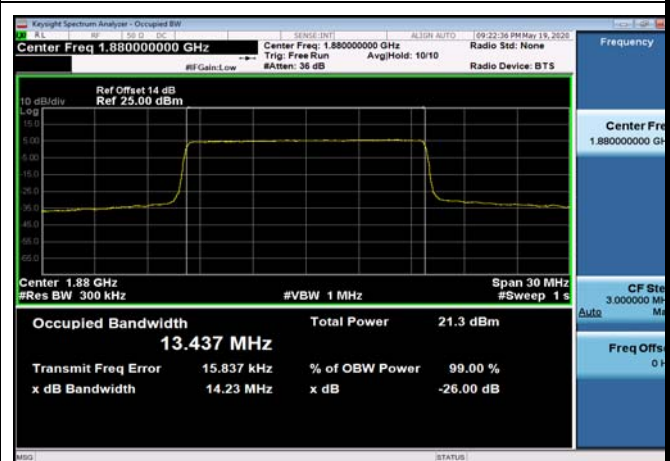
FDD02_MidRange_10MHz_1880MHz_Q16



FDD02_MidRange_15MHz_1880MHz_QPSK

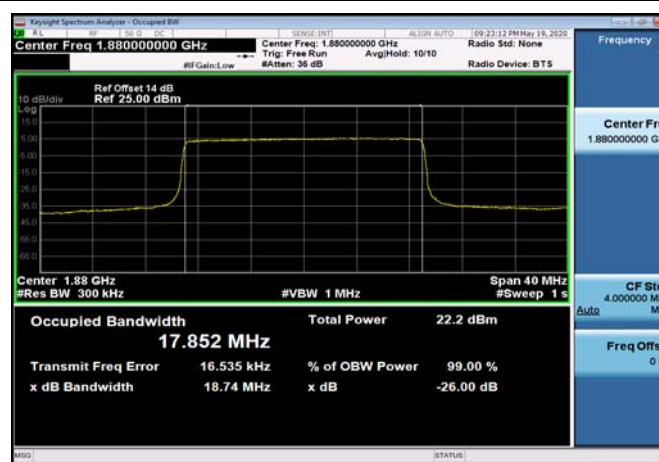


FDD02_MidRange_15MHz_1880MHz_Q16

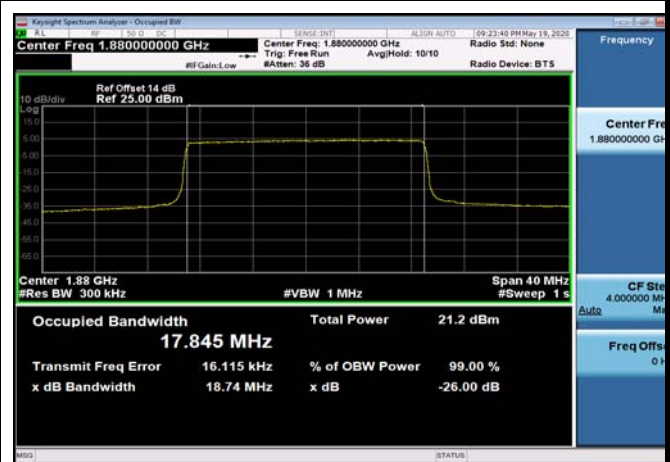




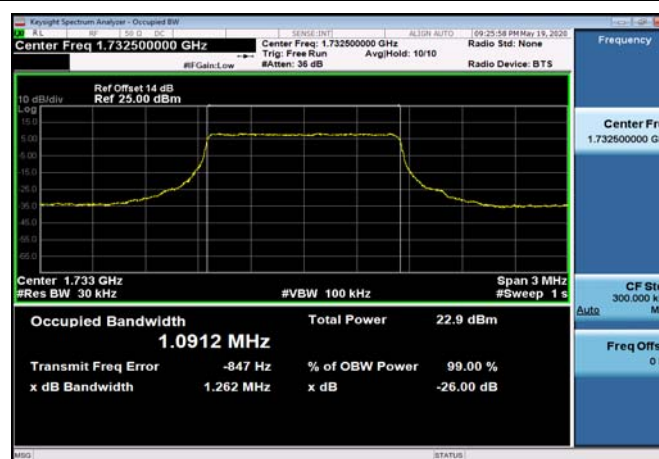
FDD02_MidRange_20MHz_1880MHz_QPSK



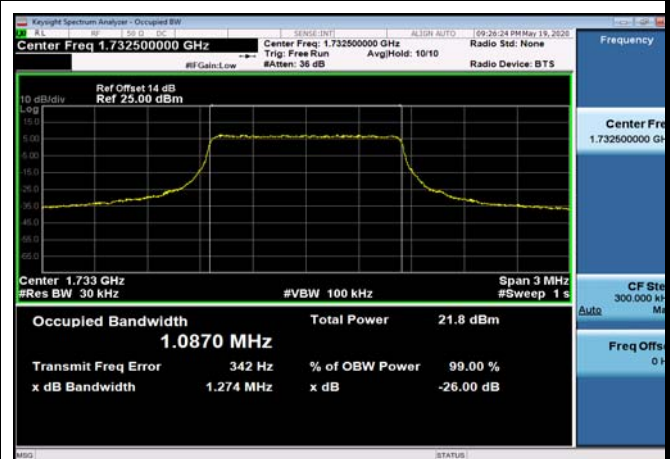
FDD02_MidRange_20MHz_1880MHz_Q16



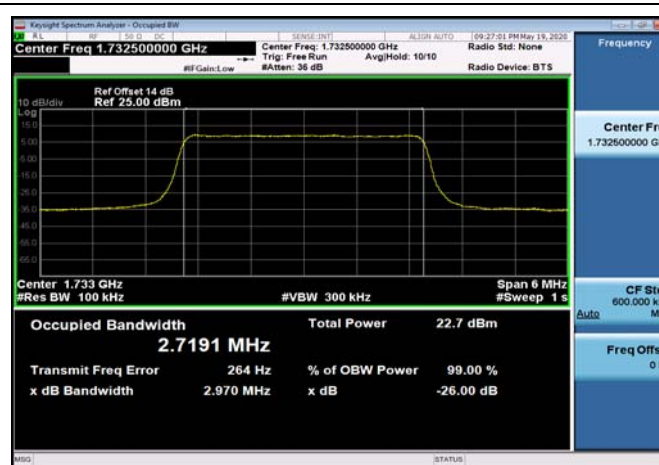
FDD04_MidRange_1.4MHz_1732.5MHz_QPSK



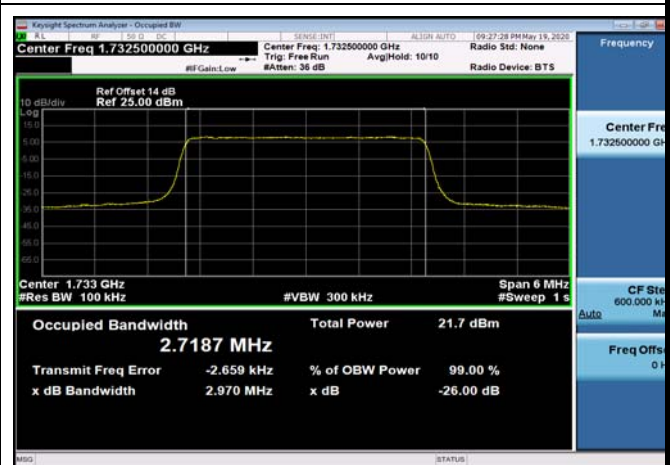
FDD04_MidRange_1.4MHz_1732.5MHz_Q16



FDD04_MidRange_3MHz_1732.5MHz_QPSK

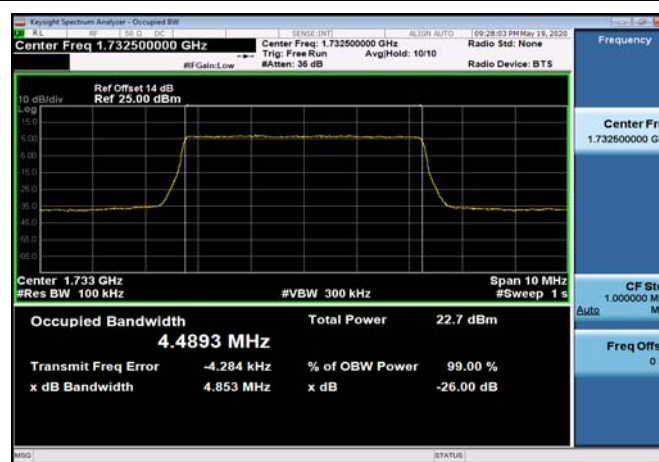


FDD04_MidRange_3MHz_1732.5MHz_Q16

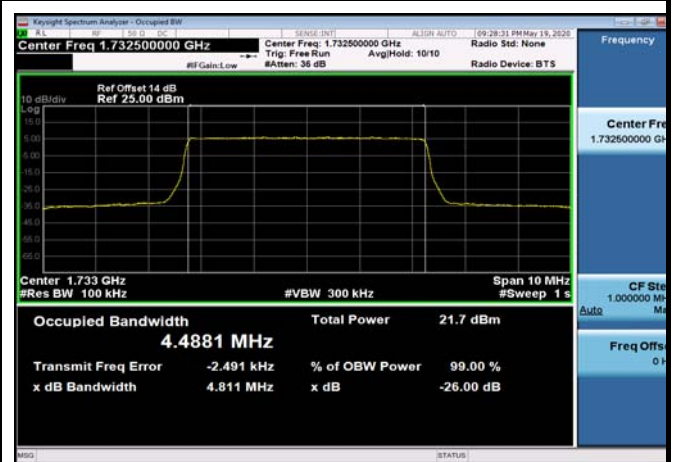




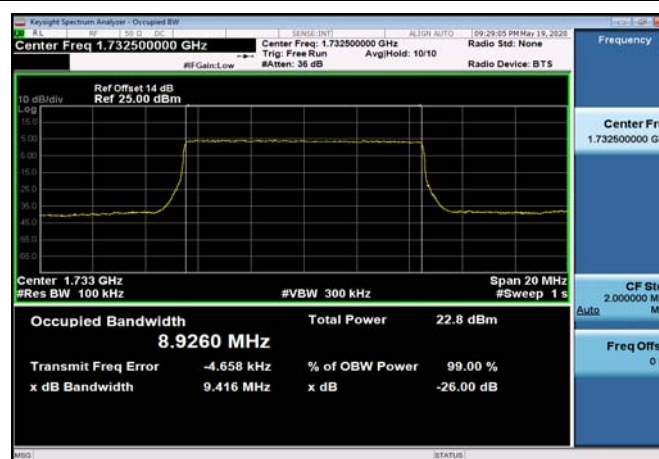
FDD04_MidRange_5MHz_1732.5MHz_QPSK



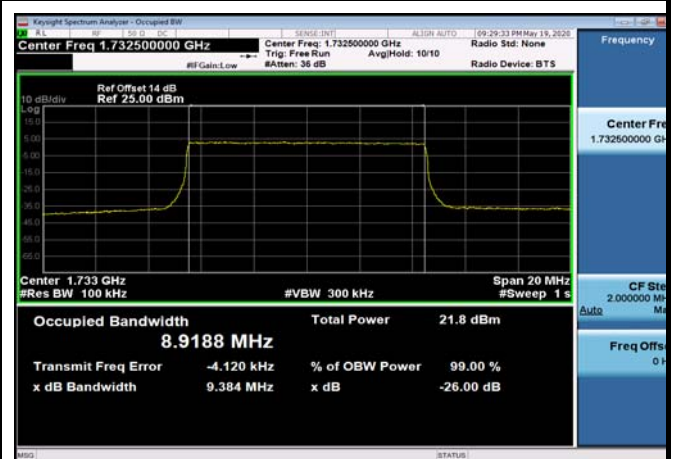
FDD04_MidRange_5MHz_1732.5MHz_Q16



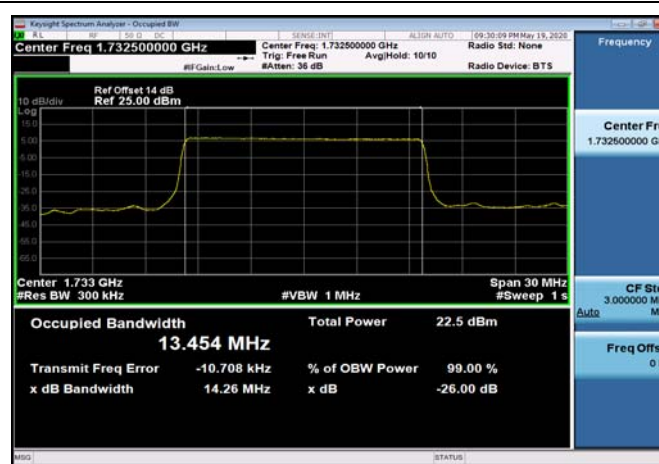
FDD04_MidRange_10MHz_1732.5MHz_QPSK



FDD04_MidRange_10MHz_1732.5MHz_Q16



FDD04_MidRange_15MHz_1732.5MHz_QPSK



FDD04_MidRange_15MHz_1732.5MHz_Q16

