



RF TEST REPORT

Report No.: SET2023-02194

Product Name: PoC Radio

Model No.: iTALK-310, iTALK-300

FCC ID: 2A2II-ITALK310

Applicant: iTALKPTT Corporation

Address: 6905 S 1300 E #450, Cottonwood Heights, UT 84047-1817, USA

Dates of Testing: 02/14/2023 - 03/22/2023

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,
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Test Report

Product: PoC Radio
Brand Name: iTALKPTT
Trade Name: iTALKPTT
Applicant: iTALKPTT Corporation
Applicant Address: 6905 S 1300 E #450, Cottonwood Heights, UT
84047-1817, USA
Manufacturer: Shenzhen VTU Systems Co., Ltd.
Manufacturer Address: 6/F, Building A, Ganghongji High-tech Intelligent
Industrial Park, No. 1008, Songbai Road, Nanshan
District, Shenzhen 518055, P.R. China
Test Standards: 47 CFR Part 2/22/24/27/90
Test Result: Pass

Tested by:  2023.03.23
Chuiwang Zhang, Test Engineer

Reviewed by:  2023.03.23
Chris You, Senior Engineer

Approved by:  2023.03.23
Yang Fan, Manager

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Change History		
Issue	Date	Reason for change
1.0	2023.03.23	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	PoC Radio	
Model No.	iTALK-310, iTALK-300	
Hardware Version	IT330_MB_V1.0	
Software Version	iTALK310_V1.0	
EUT supports Radios application	LTE Band 2/4/5/7/12/13/25/26	
Frequency Range(Tx)	LTE Band 2: 1850MHz~1910MHz LTE Band 4: 1710MHz~1755MHz LTE Band 5: 824MHz~849MHz LTE Band 7: 2500MHz~2570MHz LTE Band 12: 699MHz~716MHz LTE Band 13: 777MHz~787MHz LTE Band 25: 1850MHz~1915MHz LTE Band 26: 814MHz~849MHz	
Channel Bandwidth	LTE Band 2/4/25: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5/12/26(Part 90): 1.4MHz/3MHz/5MHz/10MHz LTE Band 7: 5MHz/10MHz/15MHz/20MHz LTE Band 13: 5MHz/10MHz LTE Band 26(Part 22): 1.4MHz/3MHz/5MHz/10MHz/15MHz	
Modulation Type	QPSK/16QAM/64QAM(downlink only)	
Maximum ERP/EIRP	LTE Band 2: 26.07dBm LTE Band 4: 25.88dBm LTE Band 5: 23.36dBm LTE Band 7: 25.56dBm LTE Band 12: 23.80dBm	LTE Band 13: 23.43dB LTE Band 25: 25.72dB LTE Band 26(Part 22): 23.74dBm LTE Band 26(Part 90): 23.82dBm
Antenna Type	External Antenna	
Antenna gain	2.0 dBi	
Power supply	Rechargeable Li-ion Polymer Battery DC3.8V/4000mAh	

Note 1: Model No.: iTALK-310 and iTALK-300 are same in circuit board and specification, the same frequency range, antenna, modulation method, and RF output power. The difference is the Screen and keys, iTALK-310 with screen and keys, while iTALK-300 does not.

Note 2: Both the iTALK-310 and iTALK-300 were tested, iTALK-310 was found to have the worst test results, only the worst cases are recorded in this report.

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

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
LTE Band 2	QPSK	1.4	1M09G7D	—	0.361
LTE Band 2	16QAM	1.4	1M09W7D	—	0.293
LTE Band 2	QPSK	3	2M69G7D	—	0.378
LTE Band 2	16QAM	3	2M68W7D	—	0.298
LTE Band 2	QPSK	5	4M50G7D	—	0.380
LTE Band 2	16QAM	5	4M50W7D	—	0.292
LTE Band 2	QPSK	10	8M93G7D	0.005	0.405
LTE Band 2	16QAM	10	8M93W7D	—	0.293
LTE Band 2	QPSK	15	13M5G7D	—	0.389
LTE Band 2	16QAM	15	13M5W7D	—	0.310
LTE Band 2	QPSK	20	17M9G7D	—	0.389
LTE Band 2	16QAM	20	17M9W7D	—	0.301
LTE Band 4	QPSK	1.4	1M09G7D	—	0.376
LTE Band 4	16QAM	1.4	1M09W7D	—	0.306
LTE Band 4	QPSK	3	2M69G7D	—	0.356
LTE Band 4	16QAM	3	2M69W7D	—	0.307
LTE Band 4	QPSK	5	4M51G7D	—	0.387
LTE Band 4	16QAM	5	4M50W7D	—	0.301
LTE Band 4	QPSK	10	8M93G7D	0.005	0.363
LTE Band 4	16QAM	10	8M92W7D	—	0.312
LTE Band 4	QPSK	15	13M5G7D	—	0.382
LTE Band 4	16QAM	15	13M5W7D	—	0.301
LTE Band 4	QPSK	20	17M9G7D	—	0.373
LTE Band 4	16QAM	20	17M9W7D	—	0.297
LTE Band 7	QPSK	5	4M50G7D	—	0.354
LTE Band 7	16QAM	5	4M50W7D	—	0.281
LTE Band 7	QPSK	10	8M94G7D	0.004	0.356
LTE Band 7	16QAM	10	8M92W7D	—	0.294
LTE Band 7	QPSK	15	13M5G7D	—	0.358

LTE Band 7	16QAM	15	13M5W7D	—	0.284
LTE Band 7	QPSK	20	17M9G7D	—	0.360
LTE Band 7	16QAM	20	17M9W7D	—	0.294
LTE Band 25	QPSK	1.4	1M09G7D	—	0.372
LTE Band 25	16QAM	1.4	1M09W7D	—	0.433
LTE Band 25	QPSK	3	2M69G7D	—	0.372
LTE Band 25	16QAM	3	2M68W7D	—	0.286
LTE Band 25	QPSK	5	4M50G7D	—	0.352
LTE Band 25	16QAM	5	4M50W7D	—	0.292
LTE Band 25	QPSK	10	8M93G7D	0.002	0.367
LTE Band 25	16QAM	10	8M92W7D	—	0.287
LTE Band 25	QPSK	15	13M5G7D	—	0.367
LTE Band 25	16QAM	15	13M5W7D	—	0.286
LTE Band 25	QPSK	20	17M9G7D	—	0.373
LTE Band 25	16QAM	20	17M9W7D	—	0.290

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
LTE Band 5	QPSK	1.4	1M09G7D	—	0.214
LTE Band 5	16QAM	1.4	1M09W7D	—	0.177
LTE Band 5	QPSK	3	2M68G7D	—	0.217
LTE Band 5	16QAM	3	2M68W7D	—	0.178
LTE Band 5	QPSK	5	4M50G7D	—	0.213
LTE Band 5	16QAM	5	4M51W7D	—	0.174
LTE Band 5	QPSK	10	8M93G7D	0.005	0.215
LTE Band 5	16QAM	10	8M91W7D	—	0.177
LTE Band 12	QPSK	1.4	1M09G7D	—	0.231
LTE Band 12	16QAM	1.4	1M09W7D	—	0.188
LTE Band 12	QPSK	3	2M69G7D	—	0.237
LTE Band 12	16QAM	3	2M68W7D	—	0.186
LTE Band 12	QPSK	5	4M50G7D	—	0.230
LTE Band 12	16QAM	5	4M51W7D	—	0.176

LTE Band 12	QPSK	10	8M95G7D	0.006	0.240
LTE Band 12	16QAM	10	8M94W7D	—	0.188
LTE Band 13	QPSK	5	4M51G7D	—	0.085
LTE Band 13	16QAM	5	4M50W7D	—	0.062
LTE Band 13	QPSK	10	8M93G7D	0.006	0.080
LTE Band 13	16QAM	10	8M91W7D	—	0.070
LTE Band 26 (Part 22)	QPSK	1.4	1M10G7D	—	0.232
LTE Band 26 (Part 22)	16QAM	1.4	1M09W7D	—	0.183
LTE Band 26 (Part 22)	QPSK	3	2M68G7D	—	0.237
LTE Band 26 (Part 22)	16QAM	3	2M69W7D	—	0.184
LTE Band 26 (Part 22)	QPSK	5	4M52G7D	—	0.234
LTE Band 26 (Part 22)	16QAM	5	4M51W7D	—	0.175
LTE Band 26 (Part 22)	QPSK	10	8M95G7D	0.004	0.236
LTE Band 26 (Part 22)	16QAM	10	8M94W7D	—	0.179
LTE Band 26 (Part 22)	QPSK	15	13M5G7D	—	0.234
LTE Band 26 (Part 22)	16QAM	15	13M5W7D	—	0.176
LTE Band 26 (Part 90)	QPSK	1.4	1M11G7D	—	0.241
LTE Band 26 (Part 90)	16QAM	1.4	1M10W7D	—	0.184
LTE Band 26 (Part 90)	QPSK	3	2M69G7D	—	0.237
LTE Band 26 (Part 90)	16QAM	3	2M69W7D	—	0.180
LTE Band 26 (Part 90)	QPSK	5	4M53G7D	—	0.232
LTE Band 26 (Part 90)	16QAM	5	4M51W7D	—	0.179
LTE Band 26 (Part 90)	QPSK	10	8M95G7D	0.004	0.240
LTE Band 26 (Part 90)	16QAM	10	8M94W7D	—	0.188

1.3. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90	Private Land Mobile Radio Services
6	KDB 971168 D01 Power Meas License Digital Systems v03r01	Measurement Guidance For Certification of Licensed Digital Transmitters
7	KDB 412172 D01 Determining ERP and EIRP v01r01	Guidelines for Determining the Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) of an RF Transmitting Systems
8	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
9	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

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

No.	FCC Rule	Description	Limit	Result
1	2.1046	Conducted Output Power	Reporting Only	PASS
2	22.913 (d) 24.232 (d) 27.50 (d)(5)	Peak to Average Ratio	< 13dB	PASS
3	24.232 (c)	Equivalent Isotropic Radiated Power (Band 2/25)	EIRP < 2W	PASS
	27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1W	PASS
	22.913 (a)(5)	Effective Radiated Power (Band 5/26)	ERP < 7W	PASS
	27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 7)	EIRP < 2W	PASS
	27.50 (c)(10)	Effective Radiated Power (Band 12)	ERP < 3W	PASS
	27.50 (b)(10)	Effective Radiated Power (Band 13)	ERP < 3W	PASS
	90.635 (b)	Effective Radiated Power (Band 26)	ERP < 100W	PASS
4	2.1049	Occupied Bandwidth	Reporting Only	PASS
5	2.1051 22.917 (a) 24.238 (a)	Conducted Spurious Emission and Conducted Band Edge (Band 2/4/5/12/13/25/26)	< 43+10log ₁₀ (P[watt])	PASS
	27.53 (c) 27.53 (h) 27.53 (g) 27.53 (m)(4) 90.691 (a)	Conducted Spurious Emission and Conducted Band Edge (Band 7)	Refer to 27.53(m)(4)	PASS
6	2.1053 22.917 (a) 24.238 (a)	Radiated Spurious Emission (Band 2/4/5/12/13/25/26)	< 43+10log ₁₀ (P[Watts])	PASS
	27.53 (c) 27.53 (h) 27.53 (g) 27.53 (m)(4) 90.691 (a)	Radiated Spurious Emission (Band 7)	< 55+10log ₁₀ (P[watt])	PASS
7	2.1055 22.355	Frequency Stability (Band 5/26)	< ±2.5ppm	PASS
	24.235 27.54	Frequency Stability (Band 2/4/7/12/13/25/26)	Within the Authorized Band	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 Configuration			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Output Power and ERP/EIRP	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	13			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
	26 (Part 90)	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2						✓		✓	✓		✓	✓	✓	✓
	4						✓		✓	✓		✓	✓	✓	✓
	5				✓				✓	✓		✓	✓	✓	✓
	7						✓		✓	✓		✓	✓	✓	✓
	12				✓				✓	✓		✓	✓	✓	✓
	13			✓	✓				✓	✓		✓	✓	✓	✓
	25						✓		✓	✓		✓	✓	✓	✓
	26 (Part 22)					✓			✓	✓		✓	✓	✓	✓
	26 (Part 90)				✓				✓	✓		✓	✓	✓	✓
99% OBW and 26dB EBW	2	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	5	✓	✓	✓	✓			✓	✓			✓		✓	
	7			✓	✓	✓	✓	✓	✓			✓		✓	
	12	✓	✓	✓	✓			✓	✓			✓		✓	
	13			✓	✓			✓	✓			✓		✓	
	25	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓			✓		✓	
	26 (Part 90)	✓	✓	✓	✓			✓	✓			✓		✓	
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓



	7			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	12	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
	13			✓	✓			✓	✓	✓		✓	✓		✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓		✓
	26 (Part 90)	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
Conducted Spurious Emission	2						✓	✓		✓			✓	✓	✓
	4						✓	✓		✓			✓	✓	✓
	5				✓			✓		✓			✓	✓	✓
	7						✓	✓		✓			✓	✓	✓
	12				✓			✓		✓			✓	✓	✓
	13			✓	✓			✓		✓			✓	✓	✓
	25						✓	✓		✓			✓	✓	✓
	26 (Part 22)					✓		✓		✓			✓	✓	✓
	26 (Part 90)			✓	✓			✓		✓			✓	✓	✓
Frequency Stability	2				✓			✓				✓		✓	
	4				✓			✓				✓		✓	
	5				✓			✓				✓		✓	
	7				✓			✓				✓		✓	
	12				✓			✓				✓		✓	
	13				✓			✓				✓		✓	
	25				✓			✓				✓		✓	
	26 (Part 22)				✓			✓				✓		✓	
	26 (Part 90)				✓			✓				✓		✓	
Radiated Spurious Emission	2	Worst case												✓	
	4	Worst case												✓	
	5	Worst case												✓	
	7	Worst case													
	12	Worst case												✓	
	13	Worst case												✓	
	25	Worst case												✓	
	26 (Part 22)	Worst case												✓	
	26 (Part 90)	Worst case												✓	
Note 1: The mark “ ✓ ” means that this configuration is chosen for testing.															

1.5. Measurement Results Explanation Example

For all conduction 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 + Power Splitter + attenuator factor.

Following shows an offset computation example with cable loss 1dB, 3dB Power Splitter, 10dB attenuator.

Example: Offset (dB) = RF cable loss(dB) + Power Splitter(dB) + attenuator factor(dB).
$$= 1 + 3 + 10 = 14 \text{ (dB)}$$

1.6. Laboratory Facilities

FCC-Registration No.: 406086

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: CN1283, valid time is until April 19th, 2023.

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 Jun. 30th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.7. Test Environment Conditions

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 Output Power and ERP/EIRP

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).

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2/7/25.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5/26(Part 22).

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12/13.

The ERP of mobile transmitters must not exceed 100 Watts for LTE Band 26(Part 90).

According to KDB 412172 D01 Determining ERP and EIRP v01r01.

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

P_T = transmitter output power in dBm;

G_T = gain of the transmitting antenna in dBi;

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

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 of Conducted Output Power and ERP/EIRP

Please refer to Appendix A for detail

2.2. Peak-to-average power ratio (PAPR)

2.2.1. Requirement

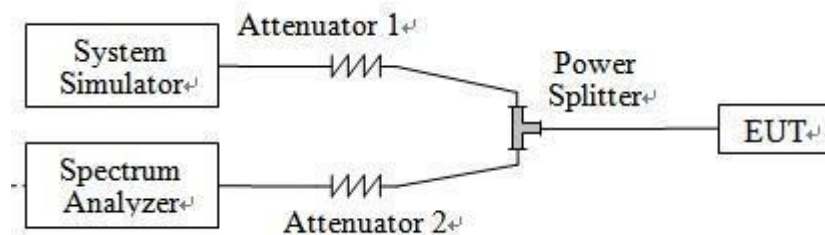
Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement 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 power ratio (PAPR) of the transmission may not exceed 13 dB.

2.2.2. Measuring Instruments

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

2.2.3. Test Description



2.2.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 5.7.2 and ANSI C63.26-2015 Section 5.2.3.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. Set resolution/measurement bandwidth $\geq$ OBW or specified reference bandwidth.
5. Set the number of counts to a value that stabilizes the measured CCDF curve.
6. Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.
7. Repeat step 3~6 at other frequency and modulations.

2.2.5. Test Results of Peak-to-average power ratio (PAPR)

Please refer to Appendix A for detail

2.3. 99% Occupied Bandwidth and 26dB Emission Bandwidth

2.3.1. Requirement

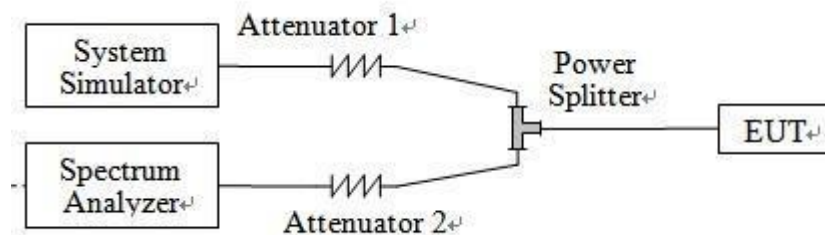
The Occupied Bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

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 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 4 and ANSI C63.26-2015 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
4. Set span to be approximately 1.5 to 5 times the OBW.
5. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW.
6. Set $VBW \geq 3 \times RBW$.
7. Set Detection mode = peak.
8. Set Trace mode = max hold.
9. Allow trace to stabilize.
10. Repeat step 3~9 at other frequency and modulations.

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

Please refer to Appendix A for detail

2.4. Conducted Band Edge

2.4.1. Requirement

For Band 2&25 [Part 24.238 (a)]:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The 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 4 [Part 27.53 (h)]:

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 5&26 [Part 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. In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified).

For Band 7 [Part 27.53 (m)(4)]:

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less 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.

For Band 12 [Part 27.53 (g)]:

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to

a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For Band 13 [Part 27.53 (c)]:

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

For Band 26 [Part 90.691 (a)]:

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

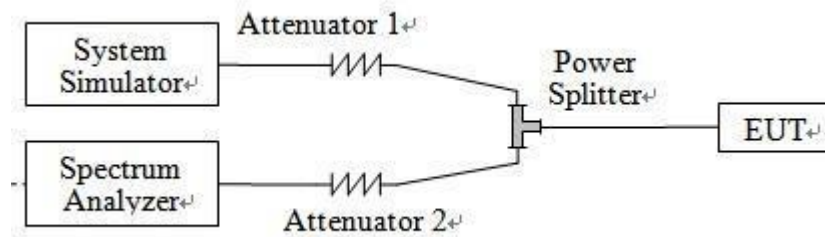
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

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 testing follows the of KDB 971168 D01 v03r01 Section 6 and ANSI C63.26-2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Span was set large enough so as to capture all out of band emissions near the Channel Edge.
4. Use $RBW \geq 1\%$ EBW in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, and use $RBW = 1$ MHz outside 1 MHz of the authorized frequency channel.
5. Set $VBW \geq 3 \times RBW$
6. Set Detector = power averaging (rms).
7. Set the number of points in sweep $\geq 2 \times \text{span} / RBW$.
8. Set sweep trigger to "free run."
9. Set the Sweep time $> (\text{number of points in sweep}) \times (\text{transmitter period})$ (i.e., the transmit on-time + the off-time).
10. Perform a trace average of at least 100 traces.
11. Repeat step 3~10 at other frequency and modulations.



2.4.5. Test Result of Conducted Band Edge

Please refer to Appendix A for detail

2.5. Conducted Spurious Emission

2.5.1. Requirement

For Band 2 & 4 & 5 & 12 & 13 & 25 & 26:

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:

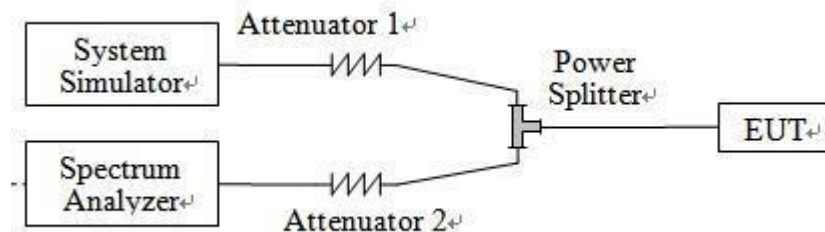
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

2.5.2. Measuring Instruments

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

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 6 and ANSI C63.26-2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Set the spectrum analyzer start frequency to 9kHz and stop frequency to the tenth harmonic of the highest fundamental frequency.
4. Set RBW = 1MHz, VBW $\geq 3 \times$ RBW
5. Set Detector = peak.
6. Set Trace mode = max hold.
7. Set Sweep time = auto-couple.

8. Identify and measure the highest spurious emission levels in each frequency range.
9. Compare the results with the corresponding limit in the applicable regulation.
10. Repeat step 3~9 at other frequency and modulations.

2.5.5. Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail

2.6. Radiated Spurious Emission

2.6.1. Requirement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E-2016.

For Band 2 & 4 & 5 & 12 & 13 & 25 & 26:

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:

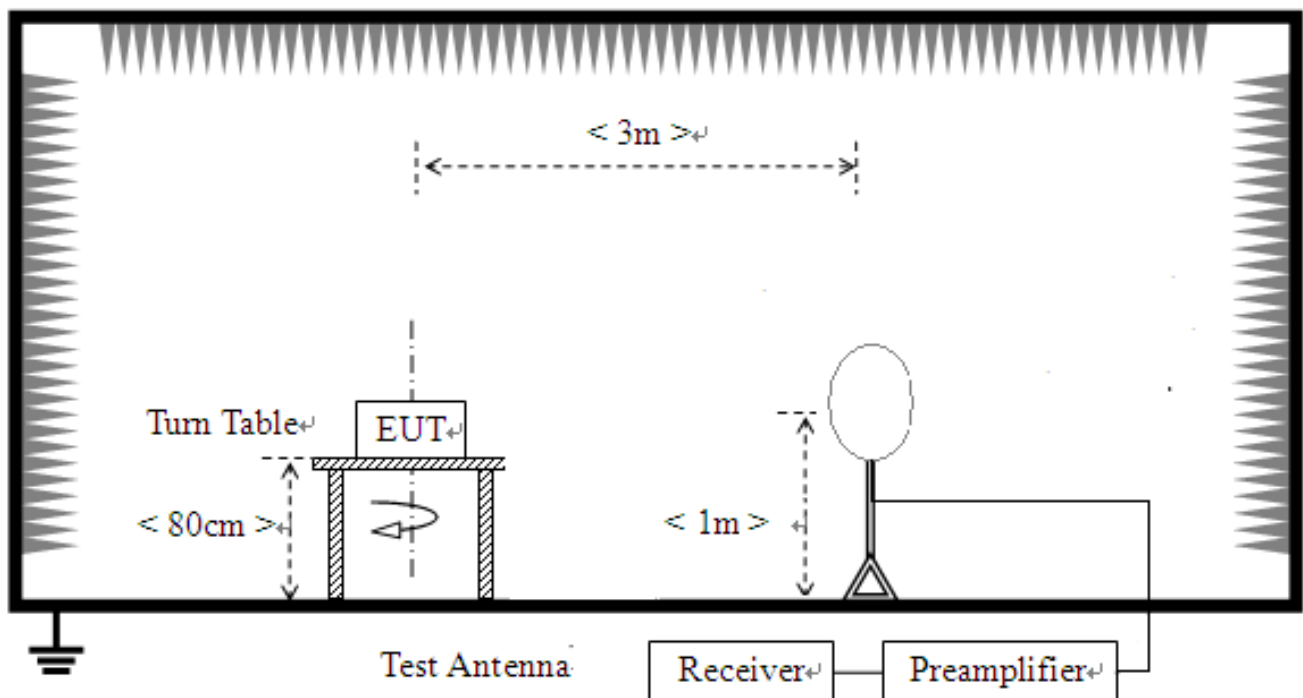
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.6.2. Measuring Instruments

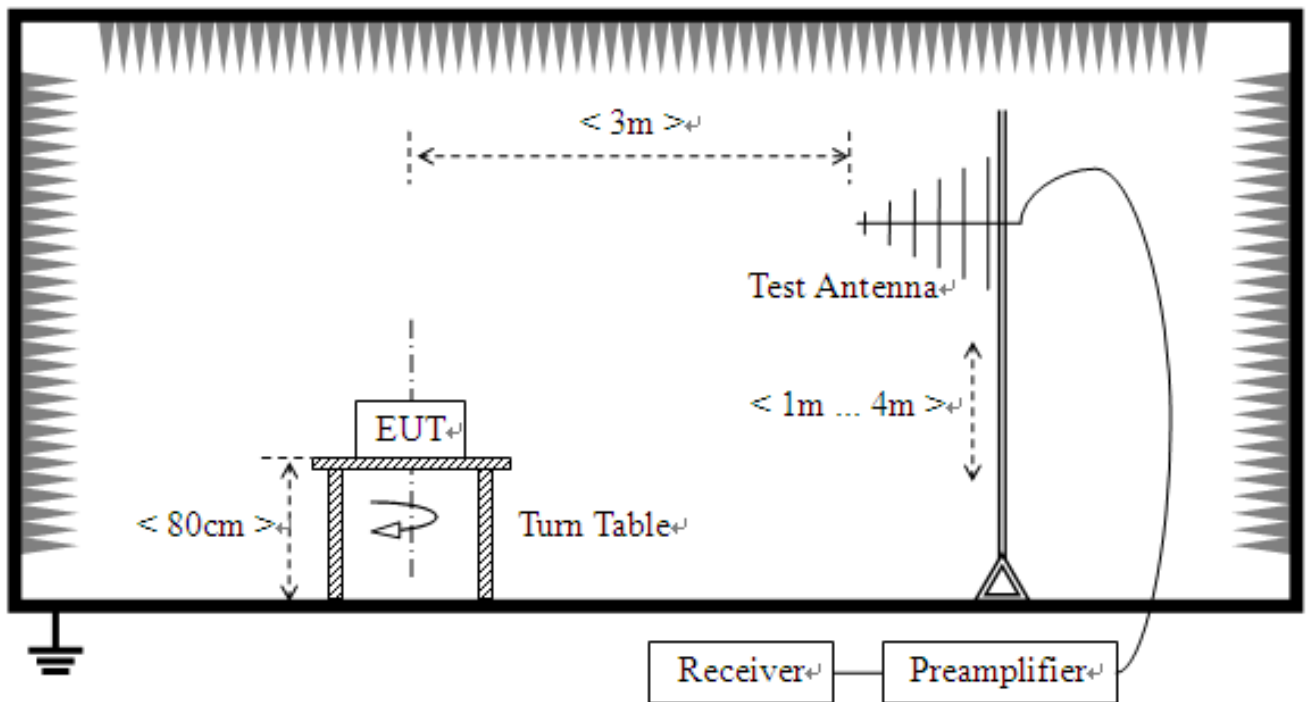
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

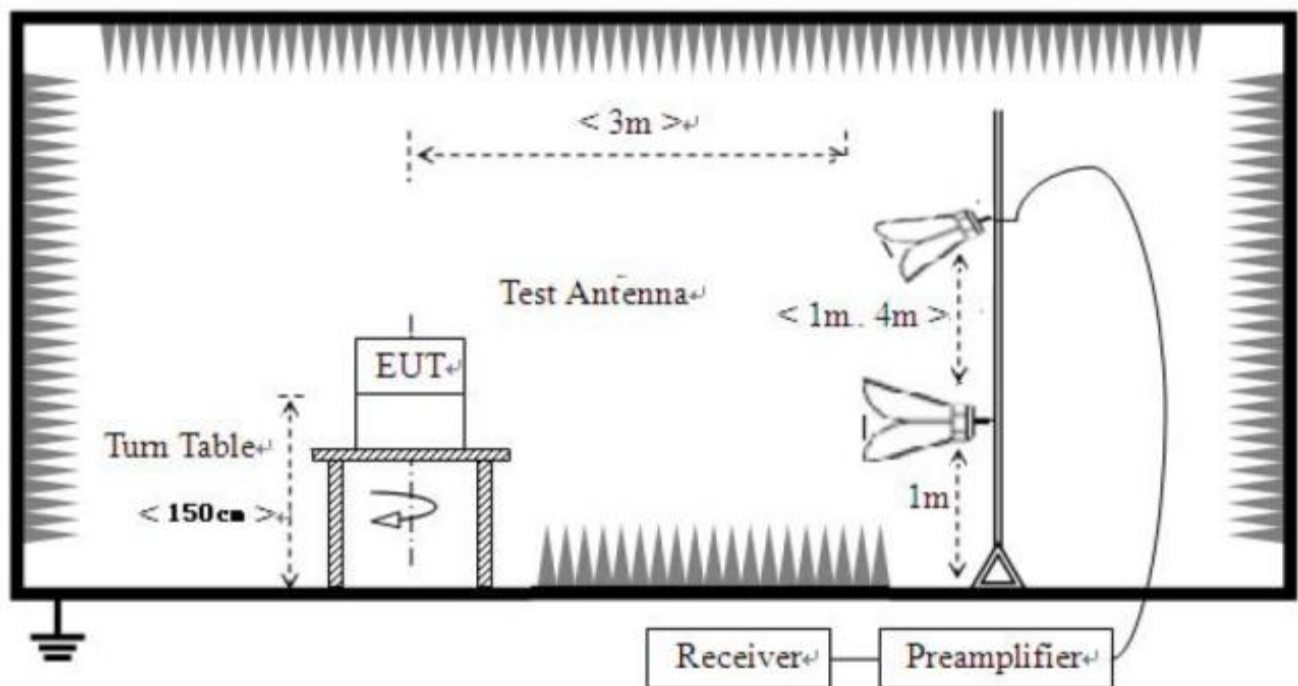
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter (for below 1GHz) / 1.5 meters (for above 1GHz) 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.
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 full, RB Offset 0.

2.6.5. Test Result of Radiated Spurious Emission

Note: 1. The emission levels of above 18GHz are lower than the limit 20dB and not show in test report.

Note: 2. Absolute Level = Reading Level + Factor

LTE Band 2 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.941	-99.01	-75.48	-13.00	62.48	23.53	Horizontal
2	53.7769	-96.21	-76.94	-13.00	63.94	19.27	Horizontal
3	69.3047	-96.26	-76.90	-13.00	63.90	19.36	Horizontal
4	7884.09	-59.92	-40.42	-13.00	27.42	19.50	Horizontal
5	12307.7	-61.10	-38.39	-13.00	25.39	22.71	Horizontal
6	17443.9	-64.39	-35.73	-13.00	22.73	28.66	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-97.87	-76.40	-13.00	63.40	21.47	Vertical
2	53.7769	-96.60	-77.30	-13.00	64.30	19.30	Vertical
3	90.6553	-101.37	-77.99	-13.00	64.99	23.38	Vertical
4	7669.60	-59.71	-40.31	-13.00	27.31	19.40	Vertical
5	11110.5	-61.12	-38.30	-13.00	25.30	22.82	Vertical
6	17410.0	-65.18	-35.97	-13.00	22.97	29.21	Vertical

LTE Band 4 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-98.48	-74.60	-13.00	61.60	23.88	Horizontal
2	53.7769	-96.82	-77.55	-13.00	64.55	19.27	Horizontal
3	66.8784	-98.82	-79.47	-13.00	66.47	19.35	Horizontal
4	7424.64	-59.26	-39.57	-13.00	26.57	19.69	Horizontal
5	11288.2	-60.47	-37.82	-13.00	24.82	22.65	Horizontal
6	17377.2	-64.54	-35.30	-13.00	22.30	29.24	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-98.05	-76.58	-13.00	63.58	21.47	Vertical
2	53.7769	-97.04	-77.74	-13.00	64.74	19.30	Vertical
3	70.7604	-97.39	-76.11	-13.00	63.11	21.28	Vertical
4	7184.85	-58.77	-39.88	-13.00	26.88	18.89	Vertical
5	11057.6	-61.37	-38.56	-13.00	25.56	22.81	Vertical
6	17361.7	-65.62	-36.47	-13.00	23.47	29.15	Vertical

LTE Band 5 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-98.47	-74.59	-13.00	61.59	23.88	Horizontal
2	53.7769	-98.78	-79.51	-13.00	66.51	19.27	Horizontal
3	69.7899	-95.88	-76.52	-13.00	63.52	19.36	Horizontal
4	5017.67	-57.81	-43.55	-13.00	30.55	14.26	Horizontal
5	10552.8	-60.98	-38.46	-13.00	25.46	22.52	Horizontal
6	17430.7	-64.65	-35.77	-13.00	22.77	28.88	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	53.7769	-96.83	-77.53	-13.00	64.53	19.30	Vertical
2	70.7604	-98.92	-77.64	-13.00	64.64	21.28	Vertical
3	84.8324	-101.24	-78.57	-13.00	65.57	22.67	Vertical
4	4794.18	-58.29	-43.64	-13.00	30.64	14.65	Vertical
5	10886.8	-61.56	-38.52	-13.00	25.52	23.04	Vertical
6	17389.8	-64.91	-35.60	-13.00	22.60	29.31	Vertical

LTE Band 7 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	57.1736	-81.82	-62.52	-25.00	37.52	19.30	Horizontal
2	177.028	-88.75	-66.35	-25.00	41.35	22.40	Horizontal
3	365.302	-84.93	-56.50	-25.00	31.50	28.43	Horizontal
4	948.564	-84.29	-46.85	-25.00	21.85	37.44	Horizontal
5	4973.48	-58.14	-43.46	-25.00	18.46	14.68	Horizontal
6	7487.24	-58.74	-38.25	-25.00	13.25	20.49	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.941	-91.19	-69.92	-25.00	44.92	21.27	Vertical
2	49.4097	-88.10	-69.19	-25.00	44.19	18.91	Vertical
3	106.183	-91.47	-67.61	-25.00	42.61	23.86	Vertical
4	3405.20	-52.92	-45.79	-25.00	20.79	7.13	Vertical
5	7629.81	-59.80	-39.43	-25.00	14.43	20.37	Vertical
6	12282.1	-61.55	-35.70	-25.00	10.70	25.85	Vertical

LTE Band 12 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.941	-100.01	-76.48	-13.00	63.48	23.53	Horizontal
2	54.2621	-95.73	-76.45	-13.00	63.45	19.28	Horizontal
3	68.3342	-98.68	-79.33	-13.00	66.33	19.35	Horizontal
4	5017.32	-57.93	-43.67	-13.00	30.67	14.26	Horizontal
5	7790.36	-60.03	-40.79	-13.00	27.79	19.24	Horizontal
6	17396.7	-64.30	-34.95	-13.00	21.95	29.35	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	54.2621	-96.05	-76.69	-13.00	63.69	19.36	Vertical
2	68.3342	-97.54	-76.52	-13.00	63.52	21.02	Vertical
3	84.3472	-100.16	-77.55	-13.00	64.55	22.61	Vertical
4	4794.53	-58.55	-43.89	-13.00	30.89	14.66	Vertical
5	7516.07	-60.10	-40.43	-13.00	27.43	19.67	Vertical
6	17409.4	-65.39	-36.18	-13.00	23.18	29.21	Vertical

LTE Band 13 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	53.7769	-96.64	-77.37	-13.00	64.37	19.27	Horizontal
2	69.7899	-97.32	-77.96	-13.00	64.96	19.36	Horizontal
3	191.585	-102.64	-79.64	-13.00	66.64	23.00	Horizontal
4	5038.85	-58.03	-43.69	-13.00	30.69	14.34	Horizontal
5	7518.95	-58.61	-38.95	-13.00	25.95	19.66	Horizontal
6	10923.1	-61.32	-38.33	-13.00	25.33	22.99	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	56.6883	-96.91	-77.26	-13.00	64.26	19.65	Vertical
2	69.7899	-97.79	-76.60	-13.00	63.60	21.19	Vertical
3	87.2586	-99.41	-76.44	-13.00	63.44	22.97	Vertical
4	4812.74	-58.63	-43.89	-13.00	30.89	14.74	Vertical
5	7629.93	-60.03	-40.50	-13.00	27.50	19.53	Vertical
6	17439.9	-64.59	-35.86	-13.00	22.86	28.73	Vertical

LTE Band 25 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-98.08	-74.20	-13.00	61.20	23.88	Horizontal
2	56.2031	-95.40	-76.11	-13.00	63.11	19.29	Horizontal
3	69.3047	-97.20	-77.84	-13.00	64.84	19.36	Horizontal
4	7907.09	-59.61	-40.13	-13.00	27.13	19.48	Horizontal
5	12226.1	-60.71	-37.95	-13.00	24.95	22.76	Horizontal
6	17416.9	-63.99	-34.89	-13.00	21.89	29.10	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-95.87	-75.28	-13.00	62.28	20.59	Vertical
2	55.7179	-96.27	-76.74	-13.00	63.74	19.53	Vertical
3	87.2586	-98.33	-75.36	-13.00	62.36	22.97	Vertical
4	7499.97	-59.56	-39.89	-13.00	26.89	19.67	Vertical
5	10420.5	-59.90	-37.89	-13.00	24.89	22.01	Vertical
6	17326.6	-65.15	-36.21	-13.00	23.21	28.94	Vertical

LTE Band 26(Part 22) QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-97.44	-73.56	-13.00	60.56	23.88	Horizontal
2	53.2916	-95.63	-76.37	-13.00	63.37	19.26	Horizontal
3	66.8784	-97.65	-78.30	-13.00	65.30	19.35	Horizontal
4	4804.51	-57.05	-42.32	-13.00	29.32	14.73	Horizontal
5	7431.54	-60.09	-40.40	-13.00	27.40	19.69	Horizontal
6	10125.5	-59.80	-37.80	-13.00	24.80	22.00	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7934	-94.86	-74.27	-13.00	61.27	20.59	Vertical
2	53.7769	-94.21	-74.91	-13.00	61.91	19.30	Vertical
3	70.7604	-97.50	-76.22	-13.00	63.22	21.28	Vertical
4	5227.51	-57.89	-43.69	-13.00	30.69	14.20	Vertical
5	10112.3	-60.35	-38.26	-13.00	25.26	22.09	Vertical
6	17377.8	-63.97	-34.73	-13.00	21.73	29.24	Vertical

LTE Band 26(Part 90) QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.4852	-99.50	-75.62	-13.00	62.62	23.88	Horizontal
2	54.2621	-93.97	-74.69	-13.00	61.69	19.28	Horizontal
3	66.8784	-97.60	-78.25	-13.00	65.25	19.35	Horizontal
4	7429.24	-59.55	-39.86	-13.00	26.86	19.69	Horizontal
5	10958.7	-61.62	-38.77	-13.00	25.77	22.85	Horizontal
6	17467.5	-64.84	-36.55	-13.00	23.55	28.29	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	52.8064	-96.86	-77.69	-13.00	64.69	19.17	Vertical
2	70.2751	-98.41	-77.17	-13.00	64.17	21.24	Vertical
3	86.7734	-99.71	-76.79	-13.00	63.79	22.92	Vertical
4	5019.77	-58.63	-44.36	-13.00	31.36	14.27	Vertical
5	10797.7	-61.34	-38.66	-13.00	25.66	22.68	Vertical
6	17415.7	-64.81	-35.70	-13.00	22.70	29.11	Vertical

2.7. Frequency Stability

2.7.1. Requirement

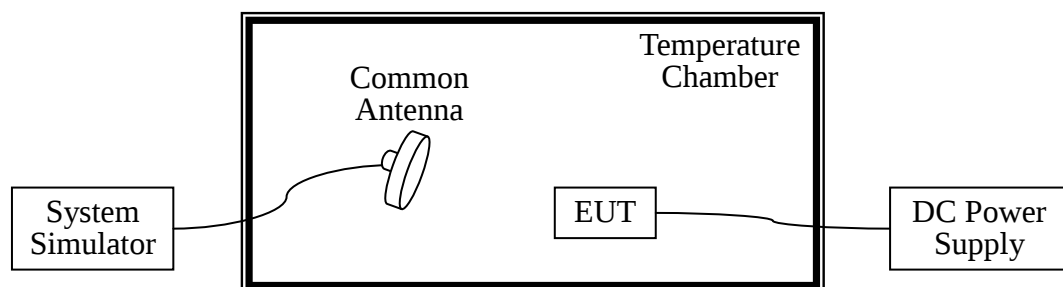
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental 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:

- (1) The temperature is varied from $-30\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ at intervals of not more than $10\text{ }^{\circ}\text{C}$.
- (2) 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.

2.7.2. 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 set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to $-30\text{ }^{\circ}\text{C}$ 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 $10\text{ }^{\circ}\text{C}$ step up to $50\text{ }^{\circ}\text{C}$. 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 $20\text{ }^{\circ}\text{C}$.
5. The variation in frequency was measured for the worst case.

2.7.5. Test Result of Frequency Stability

Please refer to Appendix A for detail

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2022.07.21	2023.07.20
2	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2020.06.19	2023.06.18
5	EMI Horn Ant. (1-18G)	ETC	1209	A150402241	2021.01.02	2024.01.01
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2022.12.13	2023.12.12
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2022.12.13	2023.12.12
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2022.03.25	2023.03.24
10	Test Receiver	R&S	ESIB7	A0501375	2022.04.18	2023.04.17
11	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
13	Temperature chamber	TABAI	PS-232	A8708054	2022.08.18	2023.08.17
14	Wideband Radio Communication tester	R&S	CMW500	A130101034	2022.06.23	2023.06.22
15	Wideband Radio Communication tester	R&S	CMW500	A150802214	2022.06.17	2023.06.16
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2022.07.21	2023.07.20
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2022.07.21	2023.07.20
18	Cable	MATCHING PAD	W7	/	2022.07.21	2023.07.20

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%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
--	-------

Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
--	-------

APPENDIX A

Conducted Output Power and ERP/EIRP

LTE Band 2 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18607	18900	19193			
			1850.7MHz	1880.0MHz	1909.3MHz			
QPSK	1	0	23.46	23.51	23.53	2.00	25.57	33.00
	1	2	23.49	23.57	23.40			
	1	5	23.48	23.52	23.32			
	3	0	22.43	22.54	22.40			
	3	1	22.41	22.51	22.38			
	3	2	22.45	22.36	22.36			
	6	0	22.43	22.33	22.43			
16QAM	1	0	22.46	22.67	22.42	2.00	24.67	33.00
	1	2	22.47	22.48	22.46			
	1	5	22.39	22.43	22.35			
	3	0	21.41	21.55	21.45			
	3	1	21.35	21.26	21.44			
	3	2	21.44	21.36	21.47			
	6	0	21.37	21.58	21.44			
LTE Band 2 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18615	18900	19185			
			1851.5MHz	1880.0MHz	1908.5MHz			
QPSK	1	0	23.48	23.64	23.68	2.00	25.77	33.00
	1	7	23.37	23.77	23.50			
	1	14	23.58	23.03	23.62			
	8	0	22.35	22.55	22.66			
	8	4	22.38	22.61	22.66			
	8	7	22.58	22.67	22.52			
	15	0	22.63	22.56	22.57			
16QAM	1	0	22.52	22.66	22.74	2.00	24.74	33.00
	1	7	22.40	22.65	22.70			
	1	14	22.51	22.74	22.55			
	8	0	21.45	21.43	21.62			
	8	4	21.54	21.57	21.52			
	8	7	21.45	21.60	21.66			
	15	0	21.63	21.41	21.61			

LTE Band 2 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18625	18900	19175			
			1852.5MHz	1880.0MHz	1907.5MHz			
QPSK	1	0	23.52	23.39	23.29	2.00	25.80	33.00
	1	12	23.33	23.52	23.68			
	1	24	23.41	23.50	23.80			
	12	0	22.50	22.60	22.61			
	12	6	22.47	22.00	22.61			
	12	11	22.55	22.74	22.57			
	25	0	22.44	22.54	22.66			
16QAM	1	0	22.31	22.49	22.58	2.00	24.66	33.00
	1	12	22.31	22.66	22.34			
	1	24	22.28	22.31	22.29			
	12	0	21.53	21.56	21.72			
	12	6	21.33	21.63	21.73			
	12	11	21.48	21.63	21.72			
	25	0	21.39	21.55	21.64			
LTE Band 2 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18650	18900	19150			
			1855.0MHz	1880.0MHz	1905.0MHz			
QPSK	1	0	23.65	23.51	23.58	2.00	26.07	33.00
	1	24	23.80	23.76	23.53			
	1	49	23.59	23.50	24.07			
	25	0	23.37	22.56	22.56			
	25	12	22.49	22.41	22.58			
	25	24	22.62	22.60	22.56			
	50	0	22.49	22.56	22.55			
16QAM	1	0	22.59	22.41	22.67	2.00	24.67	33.00
	1	24	22.60	22.67	22.51			
	1	49	22.47	22.57	22.45			
	25	0	21.81	21.58	21.54			
	25	12	21.80	21.62	21.55			
	25	24	22.62	21.60	21.60			
	50	0	21.52	21.48	22.22			

LTE Band 2 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18675	18900	19125			
			1857.5MHz	1880.0MHz	1902.5MHz			
QPSK	1	0	23.68	23.60	23.55	2.00	25.90	33.00
	1	37	23.64	23.40	23.27			
	1	74	23.67	23.51	23.90			
	36	0	22.53	22.45	22.57			
	36	16	22.52	22.47	22.65			
	36	35	22.68	22.53	22.69			
	75	0	22.58	22.57	22.66			
16QAM	1	0	22.59	22.69	22.84	2.00	24.91	33.00
	1	37	22.72	22.62	22.79			
	1	74	22.83	22.79	22.91			
	36	0	21.66	21.53	21.69			
	36	16	21.54	21.65	21.72			
	36	35	21.91	21.69	21.74			
	75	0	21.74	21.52	21.72			
LTE Band 2 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			18700	18900	19100			
			1860.0MHz	1880.0MHz	1900.0MHz			
QPSK	1	0	23.79	23.90	23.71	2.00	25.90	33.00
	1	49	23.66	23.69	23.33			
	1	99	23.57	23.53	23.58			
	50	0	22.69	22.52	22.52			
	50	24	22.67	22.52	22.53			
	50	49	22.65	22.69	22.66			
	100	0	22.67	22.62	22.70			
16QAM	1	0	22.74	22.79	22.76	2.00	24.79	33.00
	1	49	22.79	22.48	22.66			
	1	99	22.61	22.45	22.61			
	50	0	21.65	21.54	21.50			
	50	24	21.72	21.62	21.59			
	50	49	21.60	21.58	21.45			
	100	0	21.62	21.60	21.63			

LTE Band 4 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			19957	20175	20393			
			1710.7MHz	1732.5MHz	1754.3MHz			
QPSK	1	0	23.58	23.25	23.63	2.00	25.75	30.00
	1	2	23.62	22.85	23.75			
	1	5	23.49	22.76	23.52			
	3	0	22.42	22.36	22.37			
	3	1	23.25	22.43	22.55			
	3	2	23.32	22.28	22.54			
	6	0	22.31	22.35	22.51			
16QAM	1	0	22.53	22.60	22.53	2.00	24.86	30.00
	1	2	22.79	22.86	22.76			
	1	5	22.64	22.47	22.71			
	3	0	21.42	21.51	21.67			
	3	1	21.60	21.45	21.48			
	3	2	21.55	21.37	21.61			
	6	0	21.34	21.29	21.52			
LTE Band 4 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			19965	20175	20385			
			1711.5MHz	1732.5MHz	1753.5MHz			
QPSK	1	0	23.50	23.51	23.33	2.00	25.51	30.00
	1	7	23.39	23.14	23.39			
	1	14	23.41	23.27	23.48			
	8	0	22.49	22.48	22.42			
	8	4	22.50	22.36	22.43			
	8	7	22.41	22.39	22.55			
	15	0	22.58	22.38	22.41			
16QAM	1	0	22.71	22.86	22.52	2.00	24.87	30.00
	1	7	22.62	22.61	22.40			
	1	14	22.87	22.65	22.63			
	8	0	21.68	21.51	21.53			
	8	4	21.57	21.46	21.49			
	8	7	21.70	21.32	21.52			
	15	0	21.62	21.37	21.42			

LTE Band 4 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			19975	20175	20375			
			1712.5MHz	1732.5MHz	1752.5MHz			
QPSK	1	0	23.51	23.53	23.38	2.00	25.88	30.00
	1	12	23.88	23.35	23.44			
	1	24	23.32	23.46	23.69			
	12	0	22.64	22.41	22.58			
	12	6	22.56	22.58	22.47			
	12	11	22.58	22.33	22.42			
	25	0	22.49	22.32	22.34			
16QAM	1	0	22.48	22.78	22.61	2.00	24.78	30.00
	1	12	22.56	22.65	22.56			
	1	24	22.59	22.59	22.72			
	12	0	21.43	21.41	21.47			
	12	6	21.34	21.32	21.34			
	12	11	21.36	21.25	21.30			
	25	0	21.27	21.27	21.23			
LTE Band 4 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20000	20175	20350			
			1715.0MHz	1732.5MHz	1750.0MHz			
QPSK	1	0	23.55	23.50	23.49	2.00	25.60	30.00
	1	24	23.42	23.60	23.38			
	1	49	23.29	23.41	23.55			
	25	0	22.42	22.51	22.42			
	25	12	22.53	22.49	22.35			
	25	24	22.56	22.67	22.40			
	50	0	22.52	22.59	22.20			
16QAM	1	0	22.94	22.68	22.84	2.00	24.94	30.00
	1	24	22.83	22.77	22.79			
	1	49	22.66	22.57	22.88			
	25	0	21.49	21.57	21.43			
	25	12	21.51	21.45	21.45			
	25	24	21.38	21.51	21.53			
	50	0	21.41	21.25	21.34			

LTE Band 4 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20025	20175	20325			
			1717.5MHz	1732.5MHz	1747.5MHz			
QPSK	1	0	23.52	23.72	23.62	2.00	25.82	30.00
	1	37	23.42	23.60	23.41			
	1	74	23.82	23.54	23.53			
	36	0	22.57	22.37	22.28			
	36	16	22.42	22.36	22.27			
	36	35	22.37	22.41	22.32			
	75	0	22.36	22.24	22.34			
16QAM	1	0	22.67	22.72	22.41	2.00	24.78	30.00
	1	37	22.50	22.61	22.59			
	1	74	22.78	22.69	22.62			
	36	0	21.29	21.44	21.29			
	36	16	21.47	21.23	21.41			
	36	35	21.31	21.35	21.23			
	75	0	21.27	21.31	21.37			
LTE Band 4 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20050	20175	20300			
			1720.0MHz	1732.5MHz	1745.0MHz			
QPSK	1	0	23.41	23.72	23.53	2.00	25.72	30.00
	1	49	23.68	23.45	23.28			
	1	99	23.57	23.38	23.58			
	50	0	22.39	22.30	22.25			
	50	24	22.40	22.29	22.20			
	50	49	22.27	22.36	22.33			
	100	0	22.16	22.15	22.30			
16QAM	1	0	21.62	22.62	22.48	2.00	24.73	30.00
	1	49	22.51	22.44	22.53			
	1	99	22.73	22.34	22.35			
	50	0	21.48	21.41	21.28			
	50	24	21.39	21.21	21.17			
	50	49	21.29	21.35	21.31			
	100	0	21.31	21.11	21.22			

LTE Band 5 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20407	20525	20643			
			824.7MHz	836.5MHz	848.3MHz			
QPSK	1	0	23.29	22.95	23.21	2.00	23.31	38.45
	1	2	23.46	23.18	23.33			
	1	5	23.26	23.22	23.10			
	3	0	22.47	22.34	22.41			
	3	1	22.40	22.25	22.50			
	3	2	22.52	22.44	22.39			
	6	0	22.39	22.28	22.31			
16QAM	1	0	22.63	22.41	22.52	2.00	22.48	38.45
	1	2	22.55	22.52	22.39			
	1	5	22.45	22.59	22.47			
	3	0	21.42	21.46	21.38			
	3	1	21.23	21.49	21.36			
	3	2	21.31	21.32	21.49			
	6	0	21.24	21.21	21.23			
LTE Band 5 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20415	20525	20635			
			825.5MHz	836.5MHz	847.5MHz			
QPSK	1	0	23.27	23.45	23.51	2.00	23.36	38.45
	1	7	23.30	23.32	23.33			
	1	14	23.39	23.38	23.44			
	8	0	22.39	22.42	22.35			
	8	4	22.40	22.53	22.35			
	8	7	22.45	22.39	22.21			
	15	0	22.49	22.53	22.30			
16QAM	1	0	22.51	22.66	22.36	2.00	22.51	38.45
	1	7	22.37	22.41	22.63			
	1	14	22.45	22.52	22.57			
	8	0	21.42	21.73	21.52			
	8	4	21.51	21.64	21.53			
	8	7	21.37	21.50	21.38			
	15	0	21.63	21.32	21.28			

LTE Band 5 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20425	20525	20625			
			826.5MHz	836.5MHz	846.5MHz			
QPSK	1	0	23.25	23.37	23.29	2.00	23.28	38.45
	1	12	23.43	23.27	23.15			
	1	24	23.34	23.21	23.07			
	12	0	22.25	22.37	22.18			
	12	6	22.37	22.26	22.21			
	12	11	22.36	22.24	22.11			
	25	0	22.22	22.19	22.16			
16QAM	1	0	22.49	22.35	22.41	2.00	22.40	38.45
	1	12	22.40	22.47	22.19			
	1	24	22.31	22.30	22.55			
	12	0	21.34	21.49	21.31			
	12	6	21.29	21.58	21.48			
	12	11	21.47	21.32	21.22			
	25	0	21.37	21.30	21.21			
LTE Band 5 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			20450	20525	20600			
			829.0MHz	836.5MHz	844.0MHz			
QPSK	1	0	23.30	23.47	23.36	2.00	23.32	38.45
	1	24	23.44	23.29	23.18			
	1	49	23.15	23.44	23.15			
	25	0	22.22	22.42	22.21			
	25	12	22.25	22.46	22.31			
	25	24	22.31	22.52	22.47			
	50	0	22.22	22.36	22.08			
16QAM	1	0	22.64	22.55	22.32	2.00	22.49	38.45
	1	24	22.53	22.31	22.22			
	1	49	22.36	22.48	22.35			
	25	0	21.40	21.43	21.49			
	25	12	21.46	21.32	21.36			
	25	24	21.53	21.27	21.30			
	50	0	21.32	21.29	21.11			

LTE Band 7 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20775	21100	21425			
			2502.5MHz	2535.0MHz	2567.5MHz			
QPSK	1	0	23.32	23.29	23.31	2.00	25.49	33.00
	1	12	23.49	23.20	23.16			
	1	24	23.25	23.25	23.20			
	12	0	22.41	22.32	22.37			
	12	6	22.29	22.22	22.40			
	12	11	22.25	22.28	22.26			
	25	0	22.23	22.23	22.19			
16QAM	1	0	22.27	22.26	22.38	2.00	24.49	33.00
	1	12	22.44	22.35	22.49			
	1	24	22.39	22.31	22.27			
	12	0	21.27	21.27	21.32			
	12	6	21.24	21.26	21.26			
	12	11	21.31	21.22	21.19			
	25	0	21.21	21.14	21.15			
LTE Band 7 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20800	21100	21400			
			2505.0MHz	2535.0MHz	2565.0MHz			
QPSK	1	0	23.51	23.26	23.31	2.00	25.51	33.00
	1	24	23.41	23.36	23.40			
	1	49	23.25	23.11	23.22			
	25	0	22.43	22.33	22.32			
	25	12	22.42	22.24	22.21			
	25	24	22.35	22.20	22.24			
	50	0	22.22	22.23	22.14			
16QAM	1	0	22.53	22.66	22.68	2.00	24.68	33.00
	1	24	22.37	22.42	22.63			
	1	49	22.51	22.55	22.51			
	25	0	21.59	21.42	21.39			
	25	12	21.40	21.33	21.44			
	25	24	21.26	21.35	21.25			
	50	0	21.33	21.30	21.21			

LTE Band 7 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20825	21100	21375			
			2507.5MHz	2535.0MHz	2562.5MHz			
QPSK	1	0	23.54	23.36	23.45	2.00	25.54	33.00
	1	37	23.43	23.24	23.27			
	1	74	23.31	23.43	23.38			
	36	0	22.35	22.35	22.39			
	36	16	22.26	22.28	22.26			
	36	35	22.20	22.34	22.41			
	75	0	22.20	22.23	22.22			
16QAM	1	0	22.33	22.49	22.38	2.00	24.54	33.00
	1	37	22.54	22.27	22.48			
	1	74	22.32	22.25	22.25			
	36	0	21.20	21.34	21.26			
	36	16	21.28	21.41	21.46			
	36	35	21.31	21.33	21.39			
	75	0	21.04	21.34	21.24			
LTE Band 7 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			20850	21100	21350			
			2510.0MHz	2535.0MHz	2560.0MHz			
QPSK	1	0	23.56	23.53	23.41	2.00	25.56	33.00
	1	49	23.11	23.24	23.56			
	1	99	23.29	23.37	23.50			
	50	0	22.23	22.50	22.26			
	50	24	22.36	22.11	22.10			
	50	49	22.11	22.31	22.19			
	100	0	22.18	22.07	22.06			
16QAM	1	0	22.35	22.57	22.41	2.00	24.69	33.00
	1	49	22.32	22.69	22.56			
	1	99	22.40	22.56	22.37			
	50	0	21.32	21.14	21.35			
	50	24	21.37	21.32	21.27			
	50	49	21.30	21.26	21.18			
	100	0	21.19	21.21	21.07			

LTE Band 12 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23017	23095	23173			
			699.7MHz	707.5MHz	715.3MHz			
QPSK	1	0	23.73	23.64	23.62	2.00	23.64	33.77
	1	2	23.79	23.56	23.61			
	1	5	23.69	23.64	23.61			
	3	0	22.76	22.68	22.56			
	3	1	22.59	22.65	22.41			
	3	2	23.70	22.60	22.68			
	6	0	22.67	22.61	22.41			
16QAM	1	0	22.70	22.90	22.62	2.00	22.75	33.77
	1	2	22.90	22.84	22.76			
	1	5	22.64	22.65	22.54			
	3	0	21.62	21.44	21.40			
	3	1	21.42	21.52	21.22			
	3	2	21.45	21.49	21.33			
	6	0	21.55	21.41	21.31			
LTE Band 12 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23025	23095	23165			
			700.5MHz	707.5MHz	714.5MHz			
QPSK	1	0	23.90	23.66	23.52	2.00	23.75	33.77
	1	7	23.76	23.55	23.43			
	1	14	23.46	23.77	23.69			
	8	0	22.75	22.73	22.66			
	8	4	22.74	22.83	22.57			
	8	7	22.59	22.78	22.72			
	15	0	22.61	22.73	22.31			
16QAM	1	0	22.64	22.85	22.68	2.00	22.70	33.77
	1	7	22.45	22.68	22.79			
	1	14	22.62	22.82	22.74			
	8	0	21.69	21.57	21.44			
	8	4	21.60	21.45	21.56			
	8	7	21.58	21.66	21.41			
	15	0	21.54	21.55	21.39			

LTE Band 12 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23035	23095	23155			
			701.5MHz	707.5MHz	713.5MHz			
QPSK	1	0	23.76	23.54	23.75	2.00	23.61	33.77
	1	12	23.37	23.41	23.47			
	1	24	23.41	23.69	23.55			
	12	0	22.77	22.62	22.76			
	12	6	22.77	22.61	22.67			
	12	11	22.65	22.73	22.65			
	25	0	22.68	22.62	22.64			
16QAM	1	0	22.46	22.61	22.51	2.00	22.46	33.77
	1	12	21.56	22.46	22.46			
	1	24	22.41	22.42	22.42			
	12	0	21.57	21.44	21.41			
	12	6	21.44	21.45	21.37			
	12	11	21.42	21.31	21.33			
	25	0	21.37	21.39	21.33			
LTE Band 12 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23060	23095	23130			
			704.0MHz	707.5MHz	711.0MHz			
QPSK	1	0	23.64	23.48	23.95	2.00	23.80	33.77
	1	24	23.52	23.61	23.78			
	1	49	23.60	23.54	23.90			
	25	0	22.69	22.62	22.77			
	25	12	22.59	22.63	22.78			
	25	24	22.57	22.60	22.66			
	50	0	22.63	22.52	22.44			
16QAM	1	0	22.64	22.49	22.71	2.00	22.74	33.77
	1	24	22.53	22.48	22.59			
	1	49	22.89	22.65	22.46			
	25	0	21.60	21.67	21.74			
	25	12	21.53	21.67	21.74			
	25	24	21.60	21.42	21.61			
	50	0	21.71	21.59	21.68			

LTE Band 13 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			23205	23230	23255			
			779.5MHz	782.0MHz	784.5MHz			
QPSK	1	0	23.58	23.46	23.31	2.00	23.43	33.77
	1	12	23.27	23.24	23.31			
	1	24	23.17	23.10	23.22			
	12	0	22.49	22.51	22.44			
	12	6	22.48	22.55	22.43			
	12	11	22.40	22.39	22.48			
	25	0	22.25	22.34	22.41			
16QAM	1	0	22.29	22.50	22.38	2.00	22.35	33.77
	1	12	22.36	22.38	22.16			
	1	24	22.24	22.25	22.25			
	12	0	21.44	21.24	21.38			
	12	6	21.29	21.43	21.47			
	12	11	21.20	21.29	21.40			
	25	0	21.34	21.28	21.38			
LTE Band 13 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			/	23230	/			
			/	782.0MHz	/			
QPSK	1	0	/	23.16	/	2.00	23.19	33.77
	1	24	/	23.34	/			
	1	49	/	23.16	/			
	25	0	/	22.40	/			
	25	12	/	22.39	/			
	25	24	/	22.30	/			
	50	0	/	22.44	/			
16QAM	1	0	/	22.35	/	2.00	22.27	33.77
	1	24	/	22.42	/			
	1	49	/	22.40	/			
	25	0	/	21.48	/			
	25	12	/	21.49	/			
	25	24	/	21.30	/			
	50	0	/	21.41	/			

LTE Band 25 - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26047	26365	26683			
			1850.7MHz	1882.5MHz	1914.3MHz			
QPSK	1	0	23.05	23.56	23.38	2.00	25.70	33.00
	1	2	23.24	23.53	23.70			
	1	5	23.37	23.61	23.53			
	3	0	22.49	22.60	22.42			
	3	1	22.53	22.59	22.40			
	3	2	22.64	22.34	22.54			
	6	0	22.50	22.48	22.37			
16QAM	1	0	22.44	22.54	22.61	2.00	26.36	33.00
	1	2	22.65	22.69	22.58			
	1	5	22.58	22.43	22.41			
	3	0	21.27	21.66	21.42			
	3	1	21.42	21.59	24.32			
	3	2	21.54	21.45	24.36			
	6	0	21.29	21.51	21.30			
LTE Band 25 - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26055	26365	26675			
			1851.5MHz	1882.5MHz	1913.5MHz			
QPSK	1	0	23.53	23.45	23.70	2.00	25.70	33.00
	1	7	23.39	23.29	23.45			
	1	14	23.40	23.52	23.55			
	8	0	22.38	22.36	22.48			
	8	4	22.36	22.32	22.49			
	8	7	22.37	22.30	22.55			
	15	0	22.25	22.27	22.52			
16QAM	1	0	22.46	22.39	22.56	2.00	24.57	33.00
	1	7	22.51	22.52	22.52			
	1	14	22.43	22.57	22.57			
	8	0	21.28	21.51	21.57			
	8	4	21.37	21.53	21.65			
	8	7	21.42	21.46	21.55			
	15	0	21.21	21.34	21.35			

LTE Band 25 - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26065	26365	26665			
			1852.5MHz	1882.5MHz	1912.5MHz			
QPSK	1	0	23.15	23.32	23.46	2.00	25.46	33.00
	1	12	23.34	23.18	23.23			
	1	24	23.46	23.20	23.04			
	12	0	22.32	22.51	22.43			
	12	6	22.31	22.52	22.45			
	12	11	22.37	22.44	22.34			
	25	0	22.27	22.48	22.31			
16QAM	1	0	22.38	22.38	22.57	2.00	24.65	33.00
	1	12	22.42	22.65	22.36			
	1	24	22.60	22.57	22.61			
	12	0	21.35	21.47	21.48			
	12	6	21.25	21.45	21.41			
	12	11	21.41	21.33	21.50			
	25	0	21.21	21.28	21.37			
LTE Band 25 - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26090	26365	26640			
			1855.0MHz	1882.5MHz	1910.0MHz			
QPSK	1	0	23.46	23.59	23.41	2.00	25.65	33.00
	1	24	23.41	23.65	23.37			
	1	49	23.19	23.51	23.28			
	25	0	22.48	22.41	21.67			
	25	12	22.46	22.40	22.62			
	25	24	22.60	22.37	22.48			
	50	0	22.49	22.40	22.54			
16QAM	1	0	22.58	22.35	22.34	2.00	24.58	33.00
	1	24	22.28	22.26	22.23			
	1	49	22.47	22.50	22.45			
	25	0	21.56	21.49	21.55			
	25	12	21.47	21.67	21.56			
	25	24	21.74	21.63	21.46			
	50	0	21.65	21.40	21.43			

LTE Band 25 - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26115	26365	26615			
			1857.5MHz	1882.5MHz	1907.5MHz			
QPSK	1	0	23.41	23.50	23.49	2.00	25.65	33.00
	1	37	23.55	23.51	23.65			
	1	74	23.49	23.47	23.28			
	36	0	22.59	22.60	22.60			
	36	16	22.57	22.58	22.62			
	36	35	22.43	22.45	22.59			
	75	0	22.67	22.59	22.53			
16QAM	1	0	22.52	22.42	22.36	2.00	24.57	33.00
	1	37	22.21	22.34	22.43			
	1	74	22.44	22.40	22.57			
	36	0	21.54	21.64	21.51			
	36	16	21.44	21.53	21.50			
	36	35	21.66	21.56	21.48			
	75	0	21.59	21.50	21.45			
LTE Band 25 - 20MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			26140	26365	26590			
			1860.0MHz	1882.5MHz	1905.0MHz			
QPSK	1	0	23.48	23.72	23.65	2.00	25.72	33.00
	1	49	23.61	23.34	23.53			
	1	99	23.54	23.67	23.27			
	50	0	22.63	22.59	22.37			
	50	24	22.62	22.58	22.55			
	50	49	22.54	22.48	22.39			
	100	0	22.30	22.58	22.48			
16QAM	1	0	22.61	22.43	22.49	2.00	24.62	33.00
	1	49	22.51	22.57	22.62			
	1	99	22.34	22.41	22.45			
	50	0	21.41	21.59	21.45			
	50	24	21.54	21.60	21.30			
	50	49	21.46	21.29	21.07			
	100	0	21.42	21.50	21.32			

LTE Band 26 (Part 90) - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26697	26740	26783			
			814.7MHz	819.0MHz	823.3MHz			
QPSK	1	0	23.97	23.62	23.76	2.00	23.82	50.00
	1	2	23.89	23.46	23.69			
	1	5	23.94	23.56	23.40			
	3	0	22.73	22.71	22.46			
	3	1	22.69	22.63	22.66			
	3	2	22.70	22.58	22.53			
	6	0	22.68	22.67	22.35			
16QAM	1	0	22.67	22.52	22.62	2.00	22.64	50.00
	1	2	22.49	22.68	22.79			
	1	5	22.58	22.60	22.46			
	3	0	21.57	21.52	21.48			
	3	1	21.49	21.43	21.47			
	3	2	21.31	21.51	21.39			
	6	0	21.45	21.41	21.40			
LTE Band 26 (Part 90) - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26705	26740	26775			
			815.5MHz	819.0MHz	822.5MHz			
QPSK	1	0	23.74	23.89	23.72	2.00	23.74	50.00
	1	7	23.57	23.46	23.45			
	1	14	23.61	23.52	23.50			
	8	0	22.76	22.43	22.70			
	8	4	22.70	22.62	22.53			
	8	7	22.57	22.57	22.59			
	15	0	22.71	22.63	22.55			
16QAM	1	0	22.53	22.62	22.48	2.00	22.55	50.00
	1	7	22.45	22.70	22.53			
	1	14	22.63	22.45	22.62			
	8	0	21.48	21.49	21.39			
	8	4	21.54	21.53	21.68			
	8	7	21.37	21.42	21.52			
	15	0	21.49	21.39	21.39			

LTE Band 26 (Part 90) - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26715	26740	26765			
			816.5MHz	819.0MHz	821.5MHz			
QPSK	1	0	23.80	23.64	23.65	2.00	23.65	50.00
	1	12	23.64	23.44	23.56			
	1	24	23.71	23.55	23.45			
	12	0	22.64	22.61	22.57			
	12	6	22.63	22.52	22.51			
	12	11	22.45	22.35	22.62			
	25	0	22.57	22.47	22.48			
16QAM	1	0	22.63	22.49	22.67	2.00	22.52	50.00
	1	12	22.47	22.37	22.47			
	1	24	22.53	22.41	22.49			
	12	0	21.64	21.43	21.49			
	12	6	21.65	21.52	21.58			
	12	11	21.31	21.36	21.53			
	25	0	21.51	21.33	21.50			
LTE Band 26 (Part 90) - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			/	26740	/			
			/	819.0MHz	/			
QPSK	1	0	/	23.84	/	2.00	23.80	50.00
	1	24	/	23.76	/			
	1	49	/	23.95	/			
	25	0	/	22.46	/			
	25	12	/	22.52	/			
	25	24	/	22.45	/			
	50	0	/	22.46	/			
16QAM	1	0	/	22.77	/	2.00	22.74	50.00
	1	24	/	22.67	/			
	1	49	/	22.89	/			
	25	0	/	21.47	/			
	25	12	/	21.46	/			
	25	24	/	21.43	/			
	50	0	/	21.40	/			

LTE Band 26 (Part 22) - 1.4MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26797	26915	27033			
			824.7MHz	836.5MHz	848.3MHz			
QPSK	1	0	23.80	23.64	23.59	2.00	23.66	38.45
	1	2	23.81	23.42	23.68			
	1	5	23.79	23.36	23.45			
	3	0	22.64	22.43	22.47			
	3	1	22.79	22.49	22.65			
	3	2	22.48	22.42	22.54			
	6	0	22.63	22.37	22.50			
16QAM	1	0	22.74	22.54	22.67	2.00	22.62	38.45
	1	2	22.62	22.70	22.77			
	1	5	22.59	22.58	22.68			
	3	0	21.53	21.63	21.39			
	3	1	21.62	21.45	21.52			
	3	2	21.67	21.57	21.42			
	6	0	21.59	21.59	21.44			
LTE Band 26 (Part 22) - 3MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26805	26915	27025			
			825.5MHz	836.5MHz	847.5MHz			
QPSK	1	0	23.89	23.69	23.59	2.00	23.74	38.45
	1	7	23.61	23.37	23.58			
	1	14	23.63	23.43	23.52			
	8	0	22.69	22.47	22.61			
	8	4	22.68	22.49	22.69			
	8	7	22.59	22.44	22.59			
	15	0	22.65	22.37	22.60			
16QAM	1	0	22.79	22.74	22.42	2.00	22.64	38.45
	1	7	22.64	22.54	22.53			
	1	14	22.69	22.49	22.60			
	8	0	21.42	21.52	21.68			
	8	4	21.59	21.47	21.76			
	8	7	21.52	21.31	21.57			
	15	0	21.45	21.44	21.65			

LTE Band 26 (Part 22) - 5MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26815	26915	27015			
			826.5MHz	836.5MHz	846.5MHz			
QPSK	1	0	23.85	23.76	23.49	2.00	23.70	38.45
	1	12	23.57	23.56	23.53			
	1	24	23.30	23.43	23.47			
	12	0	22.44	22.49	22.42			
	12	6	22.52	22.50	22.52			
	12	11	22.34	22.37	22.46			
	25	0	22.50	22.47	22.43			
16QAM	1	0	22.57	22.56	22.48	2.00	22.42	38.45
	1	12	22.48	22.36	22.47			
	1	24	22.32	22.49	22.25			
	12	0	21.51	21.58	21.45			
	12	6	21.54	21.60	21.44			
	12	11	21.45	21.39	21.56			
	25	0	21.41	21.34	21.34			
LTE Band 26 (Part 22) - 10MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26840	26915	26990			
			829.0MHz	836.5MHz	844.0MHz			
QPSK	1	0	23.64	23.82	23.88	2.00	23.73	38.45
	1	24	23.54	23.60	23.57			
	1	49	23.59	23.57	23.57			
	25	0	22.62	22.58	22.58			
	25	12	22.49	22.65	22.62			
	25	24	22.39	22.49	22.44			
	50	0	22.53	22.46	22.51			
16QAM	1	0	22.68	22.62	22.58	2.00	22.53	38.45
	1	24	22.51	22.45	22.36			
	1	49	22.43	22.37	22.42			
	25	0	21.47	21.42	21.53			
	25	12	21.37	21.39	21.34			
	25	24	21.45	21.28	21.50			
	50	0	21.40	21.34	21.48			

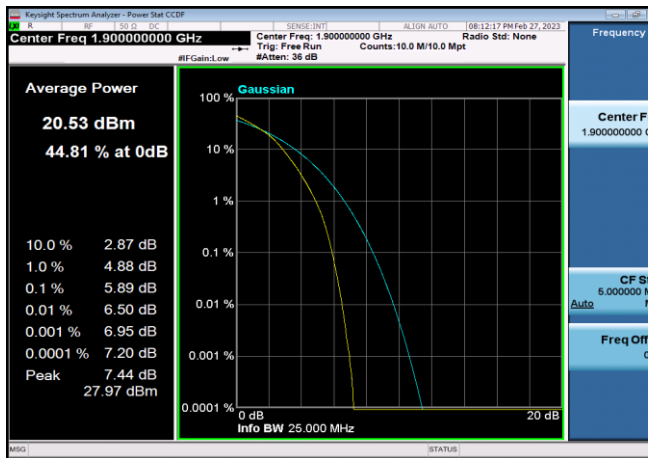
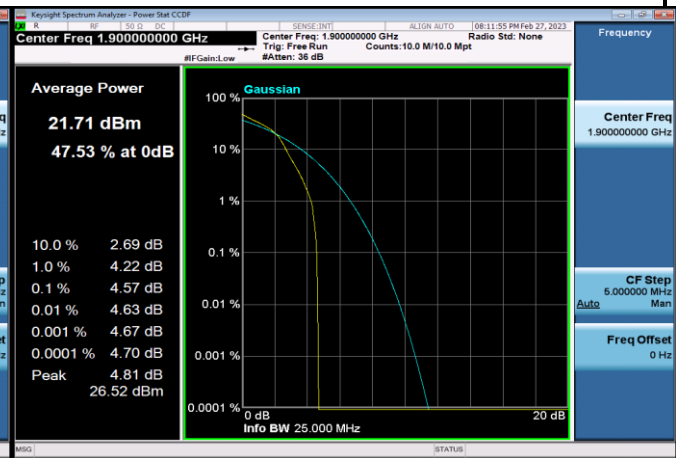
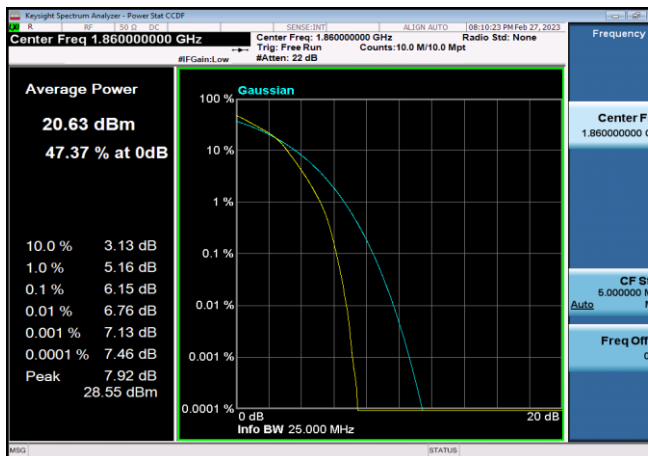
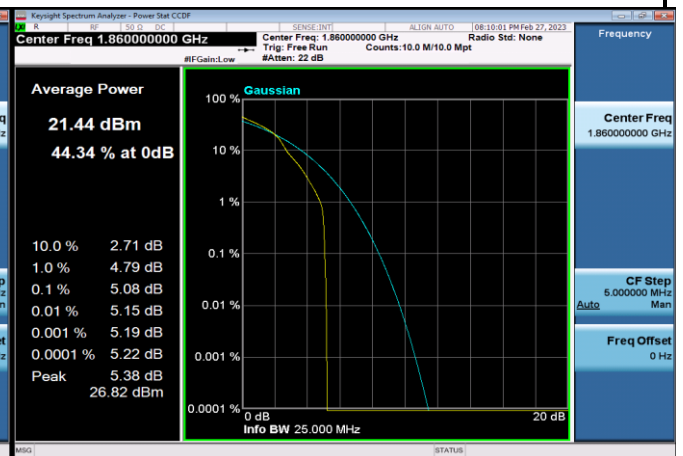
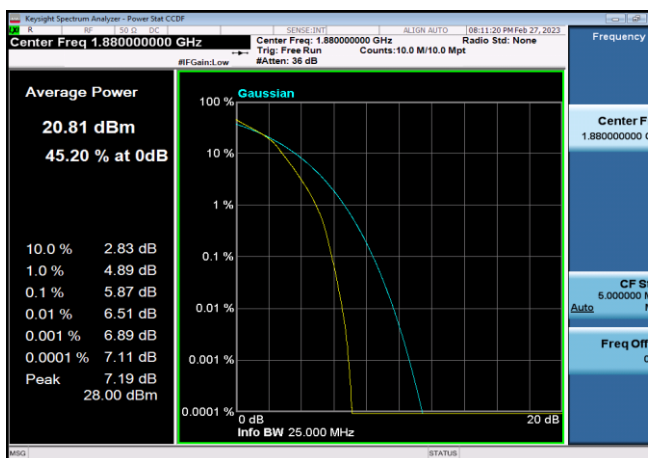
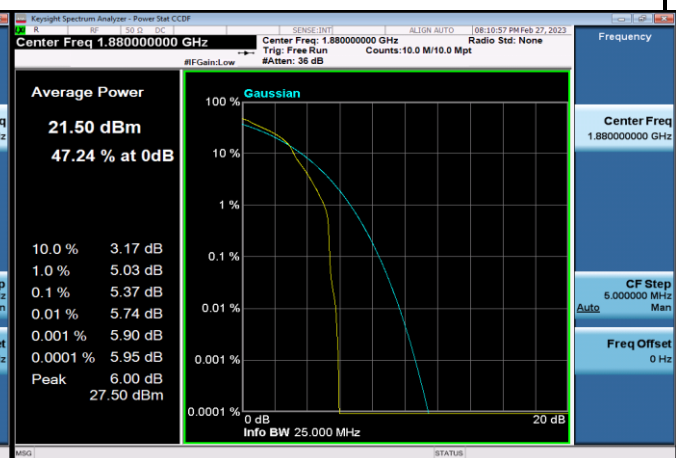
LTE Band 26 (Part 22) - 15MHz Bandwidth								
Modulation	RB Size	RB Offset	Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			26865	26915	26965			
			831.5MHz	836.5MHz	841.5MHz			
QPSK	1	0	23.61	23.84	23.75	2.00	23.69	38.45
	1	37	23.37	23.50	23.59			
	1	74	23.55	23.39	23.71			
	36	0	22.53	22.52	22.39			
	36	16	22.32	22.37	22.51			
	36	35	22.49	22.42	22.41			
	75	0	22.30	22.28	22.33			
16QAM	1	0	22.61	22.51	22.58	2.00	22.46	38.45
	1	37	22.57	22.41	22.51			
	1	74	22.47	22.50	22.48			
	36	0	21.42	21.51	21.45			
	36	16	21.40	21.32	21.54			
	36	35	21.39	21.46	21.38			
	75	0	21.38	21.23	21.34			

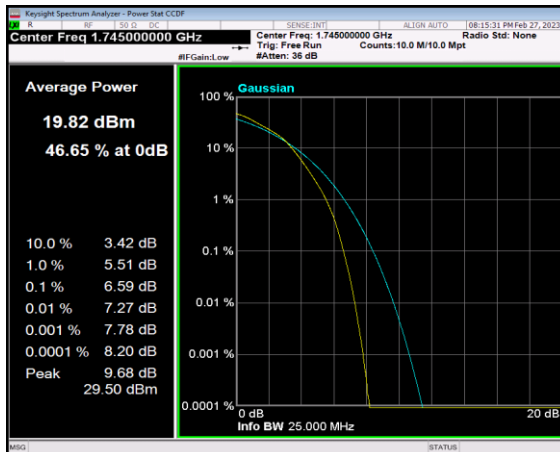
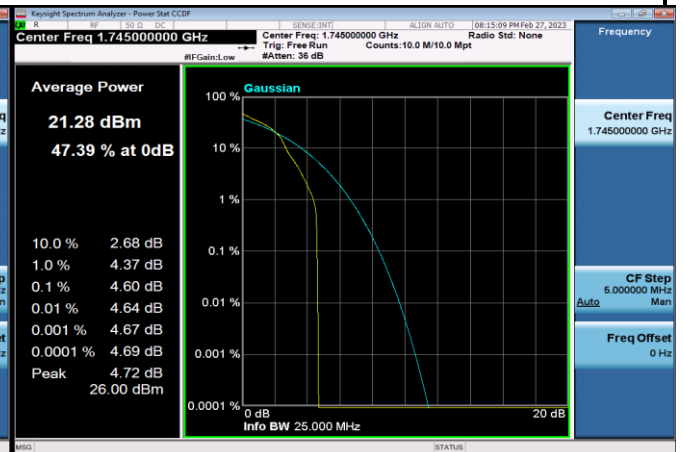
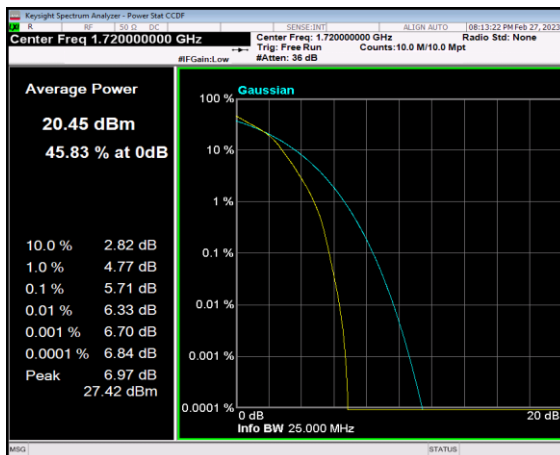
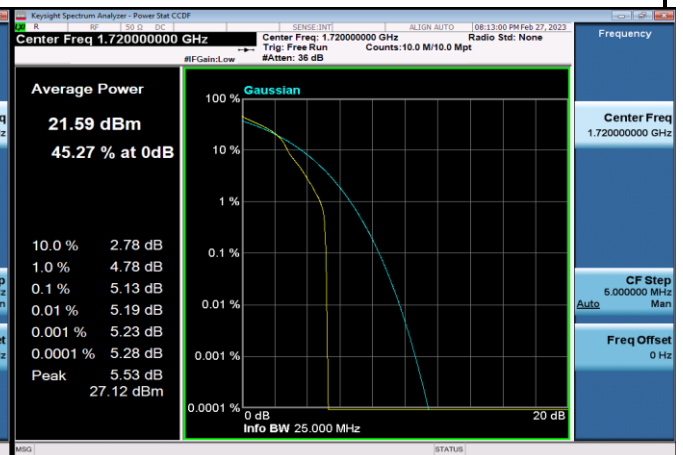
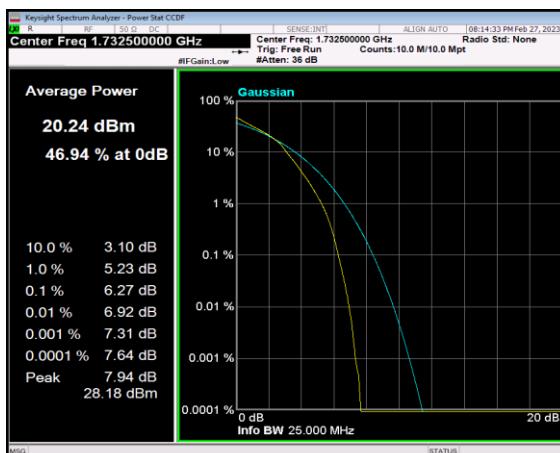
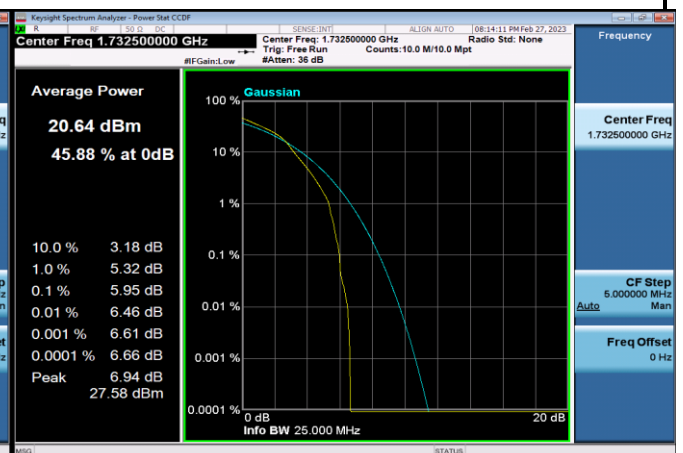
Peak To Average Ratio

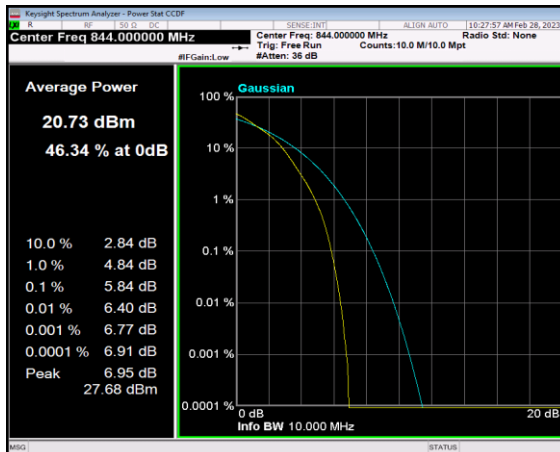
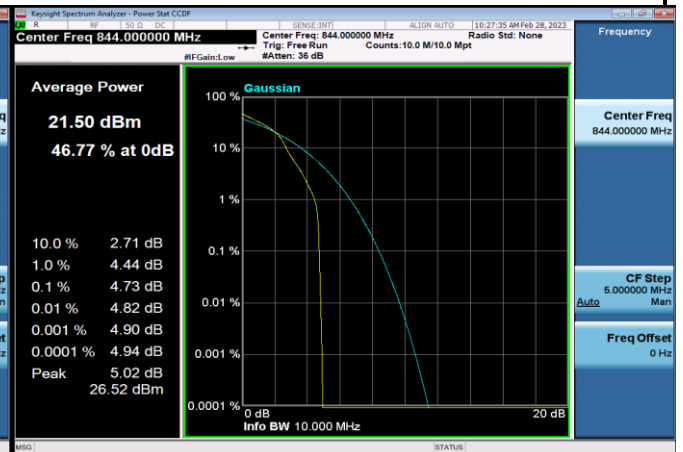
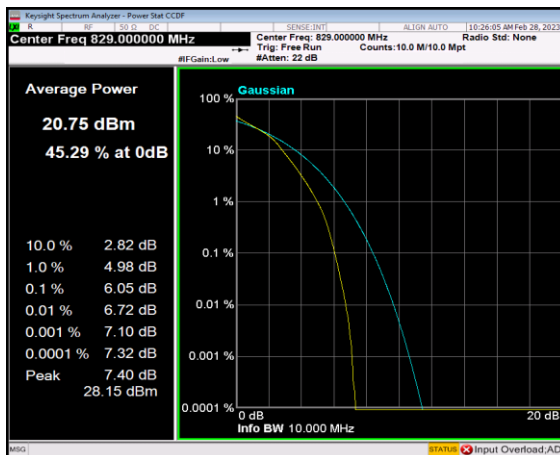
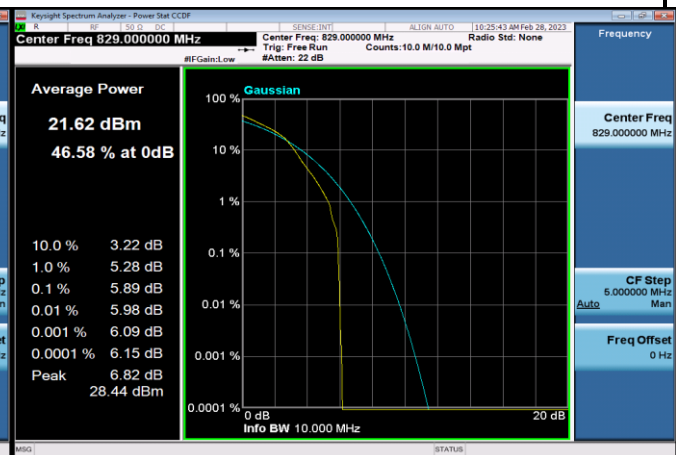
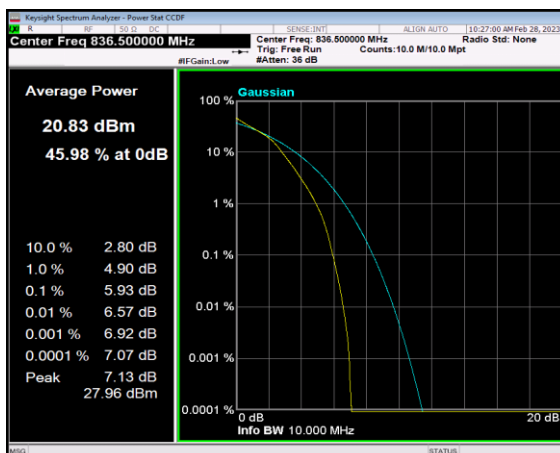
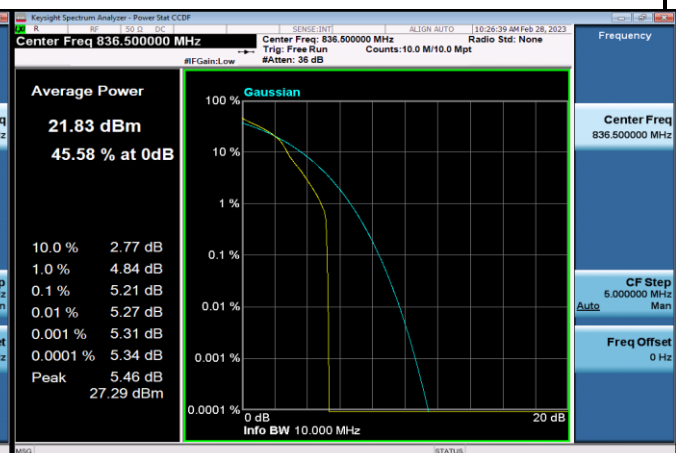
PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	20	OneRB_high	Q16	5.08	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	6.15	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	5.37	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	5.87	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	4.57	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	5.89	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	5.13	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	5.71	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	5.95	13.00	Pass
FDD04	MidRange	20	fullRB	Q16	6.27	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	4.60	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	6.59	13.00	Pass
FDD05	LowRange	10	OneRB_high	Q16	5.89	13.00	Pass
FDD05	LowRange	10	fullRB	Q16	6.05	13.00	Pass
FDD05	MidRange	10	OneRB_high	Q16	5.21	13.00	Pass
FDD05	MidRange	10	fullRB	Q16	5.93	13.00	Pass
FDD05	HighRange	10	OneRB_high	Q16	4.73	13.00	Pass
FDD05	HighRange	10	fullRB	Q16	5.84	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	5.09	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	6.18	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	5.35	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	6.56	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	4.81	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	5.77	13.00	Pass
FDD12	LowRange	10	OneRB_high	Q16	5.67	13.00	Pass
FDD12	LowRange	10	fullRB	Q16	6.62	13.00	Pass
FDD12	MidRange	10	OneRB_high	Q16	5.42	13.00	Pass
FDD12	MidRange	10	fullRB	Q16	6.66	13.00	Pass
FDD12	HighRange	10	OneRB_high	Q16	5.96	13.00	Pass
FDD12	HighRange	10	fullRB	Q16	6.32	13.00	Pass

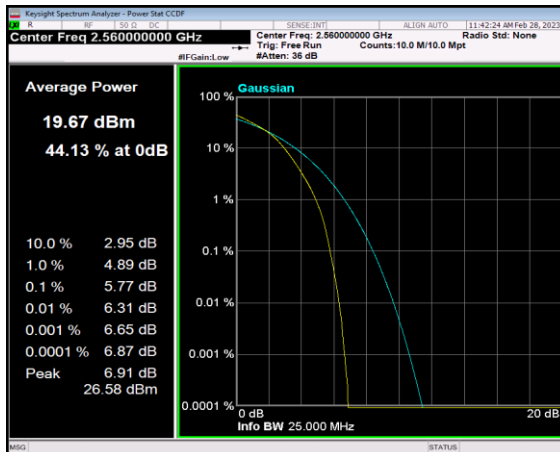
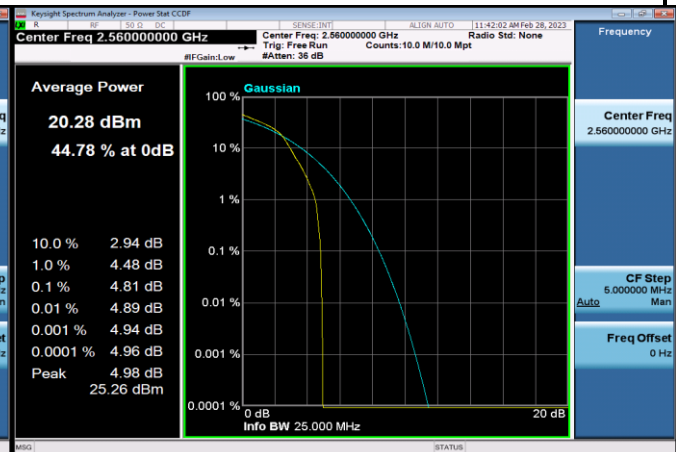
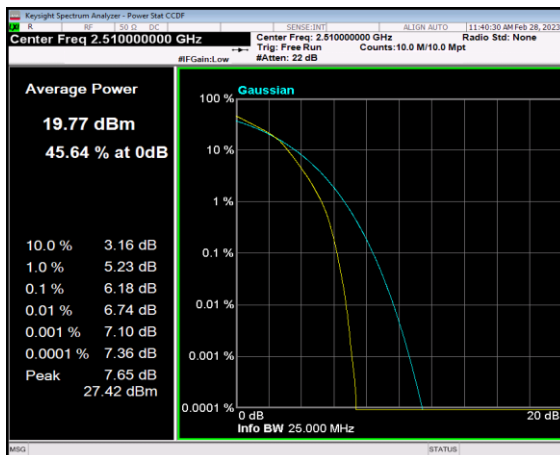
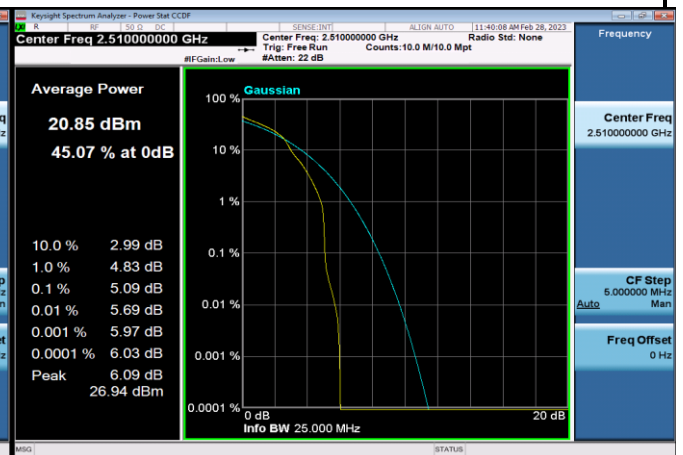
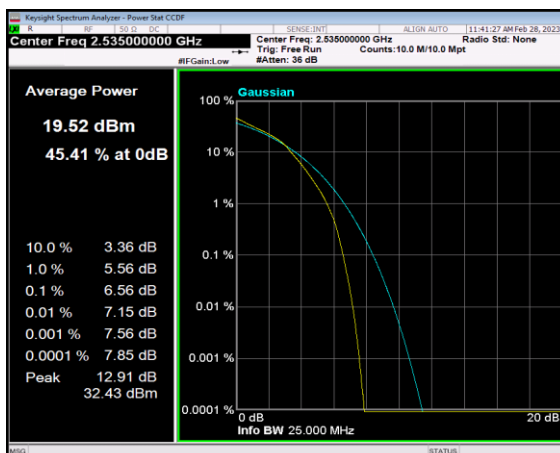
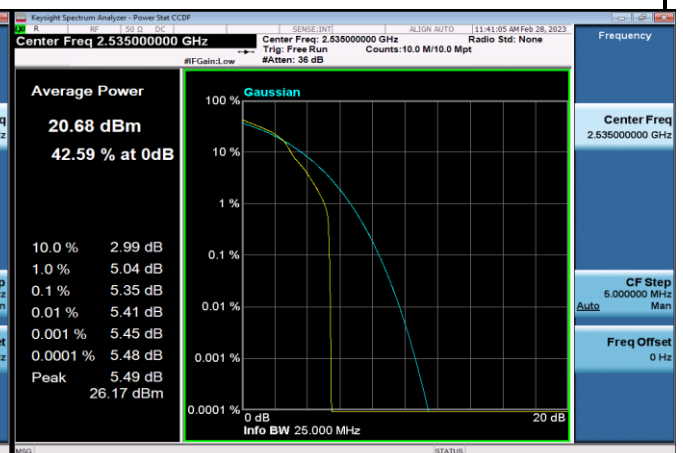


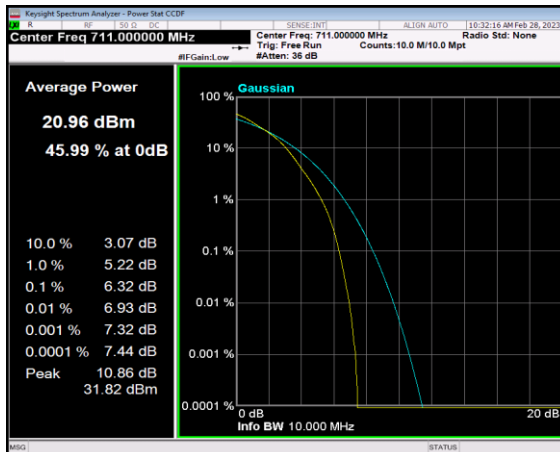
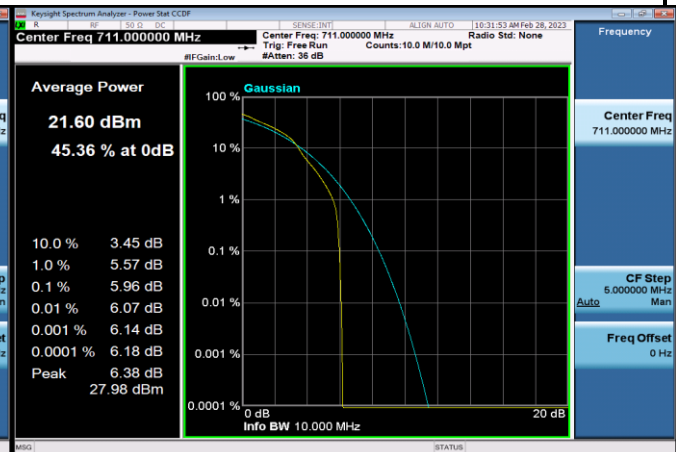
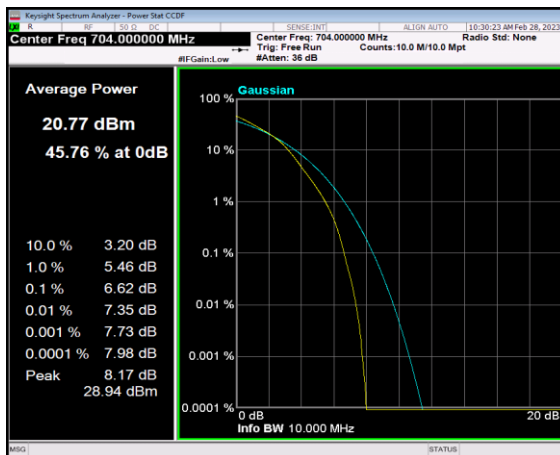
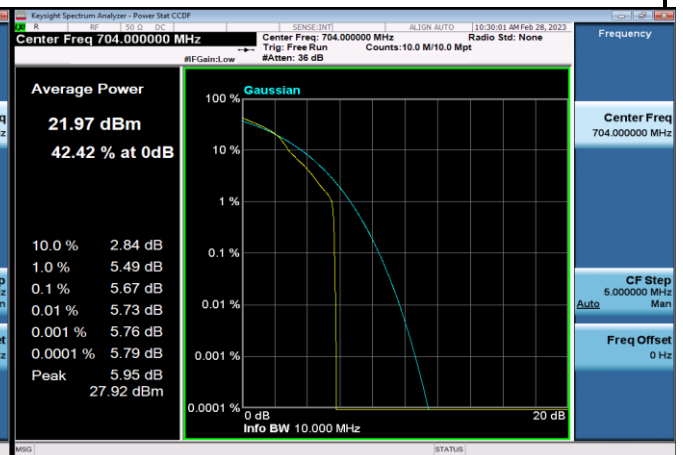
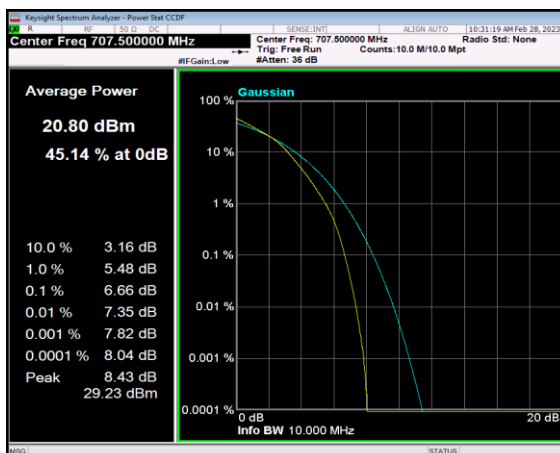
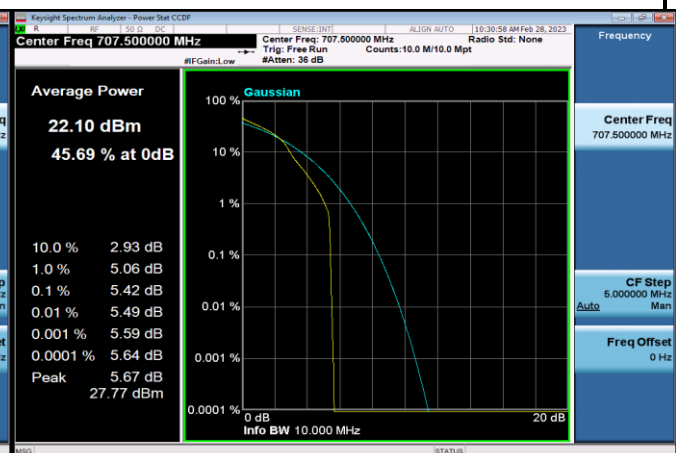
FDD13	LowRange	5	OneRB_high	Q16	5.23	13.00	Pass
FDD13	LowRange	5	fullRB	Q16	6.63	13.00	Pass
FDD13	MidRange	5	OneRB_high	Q16	5.54	13.00	Pass
FDD13	MidRange	5	fullRB	Q16	6.69	13.00	Pass
FDD13	HighRange	5	OneRB_high	Q16	5.70	13.00	Pass
FDD13	HighRange	5	fullRB	Q16	6.84	13.00	Pass
FDD13	MidRange	10	OneRB_high	Q16	6.20	13.00	Pass
FDD13	MidRange	10	fullRB	Q16	6.14	13.00	Pass
FDD25	LowRange	20	OneRB_high	Q16	5.31	13.00	Pass
FDD25	LowRange	20	fullRB	Q16	5.96	13.00	Pass
FDD25	MidRange	20	OneRB_high	Q16	4.99	13.00	Pass
FDD25	MidRange	20	fullRB	Q16	6.05	13.00	Pass
FDD25	HighRange	20	OneRB_high	Q16	4.05	13.00	Pass
FDD25	HighRange	20	fullRB	Q16	5.89	13.00	Pass
FDD26-Part 22	LowRange	15	OneRB_high	Q16	5.00	13.00	Pass
FDD26-Part 22	LowRange	15	fullRB	Q16	5.93	13.00	Pass
FDD26-Part 22	MidRange	15	OneRB_high	Q16	5.03	13.00	Pass
FDD26-Part 22	MidRange	15	fullRB	Q16	5.91	13.00	Pass
FDD26-Part 22	HighRange	15	OneRB_high	Q16	4.86	13.00	Pass
FDD26-Part 22	HighRange	15	fullRB	Q16	5.95	13.00	Pass
FDD26-Part 90	LowRange	5	OneRB_high	Q16	4.92	13.00	Pass
FDD26-Part 90	LowRange	5	fullRB	Q16	5.75	13.00	Pass
FDD26-Part 90	MidRange	5	OneRB_high	Q16	5.00	13.00	Pass
FDD26-Part 90	MidRange	5	fullRB	Q16	5.75	13.00	Pass
FDD26-Part 90	HighRange	5	OneRB_high	Q16	4.80	13.00	Pass
FDD26-Part 90	HighRange	5	fullRB	Q16	5.84	13.00	Pass
FDD26-Part 90	MidRange	10	OneRB_high	Q16	4.92	13.00	Pass
FDD26-Part 90	MidRange	10	fullRB	Q16	5.75	13.00	Pass

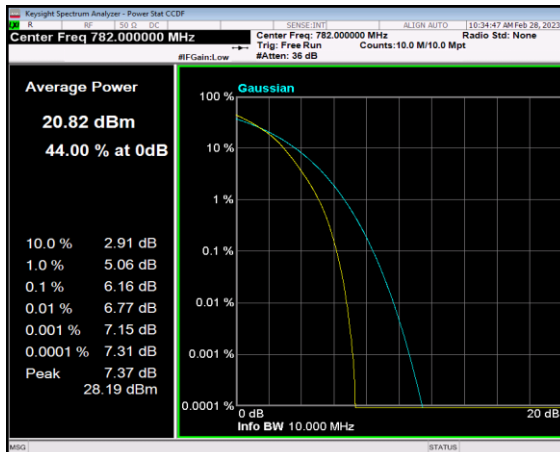
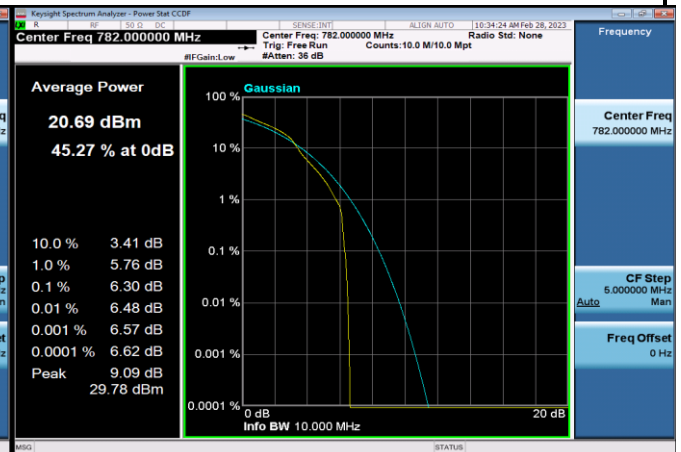
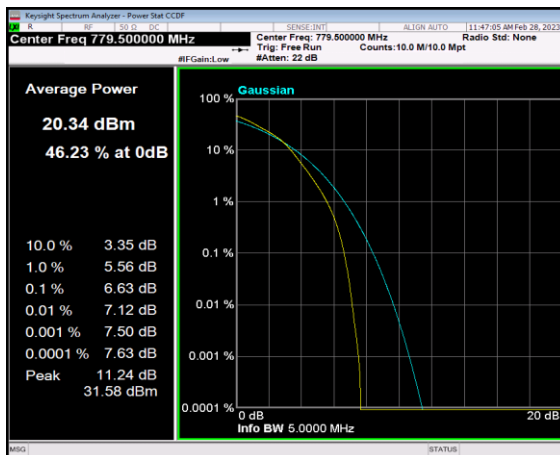
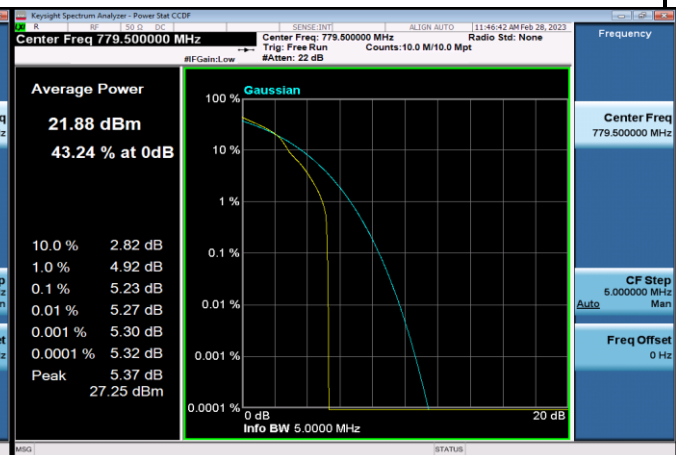
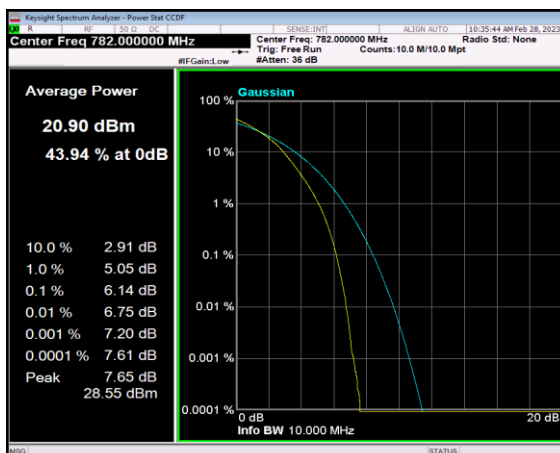
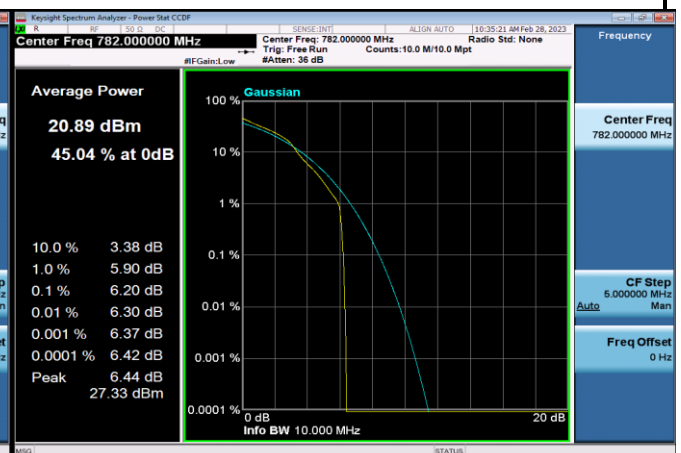
FDD02_HighRange_20MHz_1900_fullIRB
_Q16

FDD02_HighRange_20MHz_1900_OneRB
_high_Q16

FDD02_LowRange_20MHz_1860_fullIRB
_Q16

FDD02_LowRange_20MHz_1860_OneRB
_high_Q16

FDD02_MidRange_20MHz_1880_fullIRB
_Q16

FDD02_MidRange_20MHz_1880_OneRB
_high_Q16


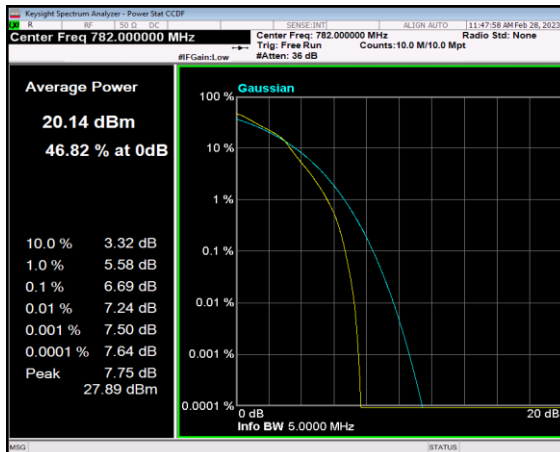
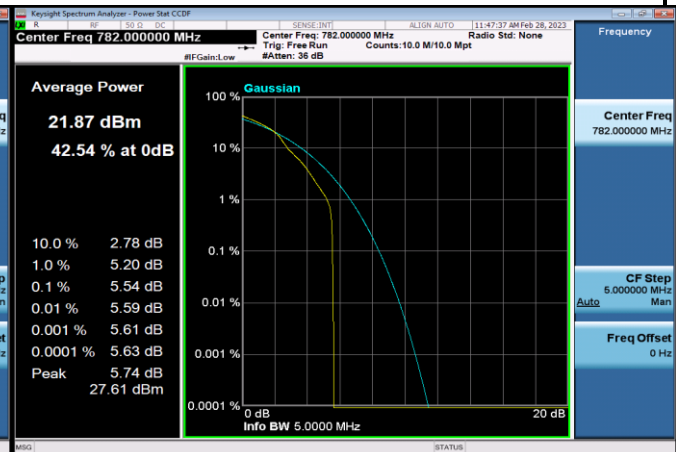
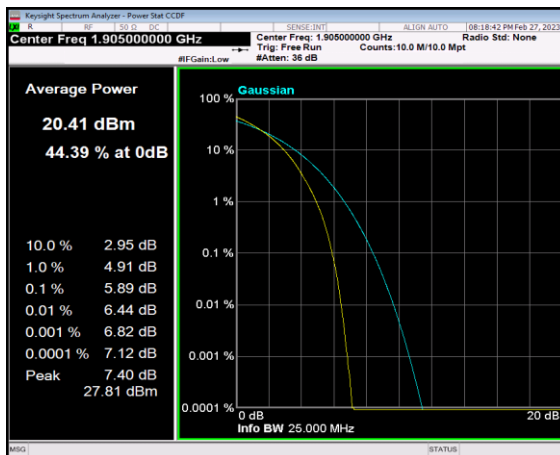
FDD04_HighRange_20MHz_1745_fullIRB
_Q16

FDD04_HighRange_20MHz_1745_OneRB
_high_Q16

FDD04_LowRange_20MHz_1720_fullIRB
_Q16

FDD04_LowRange_20MHz_1720_OneRB
_high_Q16

FDD04_MidRange_20MHz_1732.5_fullIRB
_Q16

FDD04_MidRange_20MHz_1732.5_OneRB
_high_Q16


FDD05_HighRange_10MHz_844_fullIRB
_Q16

FDD05_HighRange_10MHz_844_OneRB
_high_Q16

FDD05_LowRange_10MHz_829_fullIRB
_Q16

FDD05_LowRange_10MHz_829_OneRB
_high_Q16

FDD05_MidRange_10MHz_836.5_fullIRB
_Q16

FDD05_MidRange_10MHz_836.5_OneRB
_high_Q16


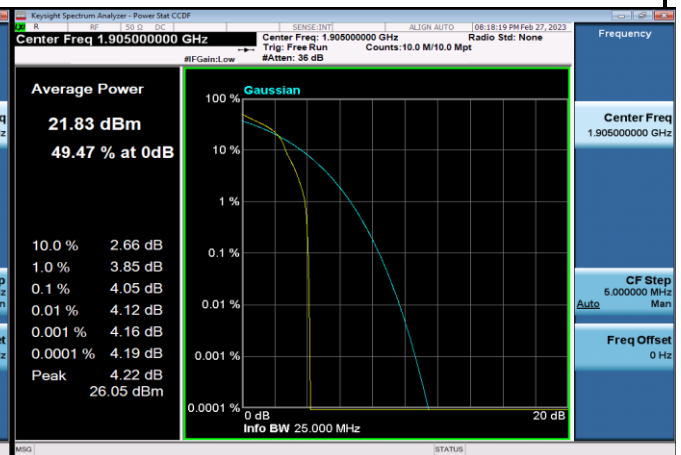
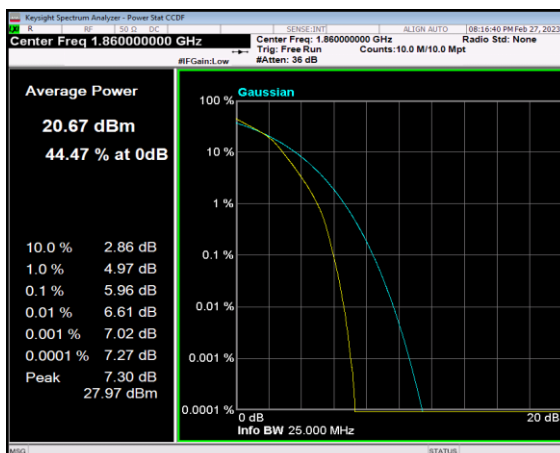
FDD07_HighRange_20MHz_2560_fullRB
_Q16

FDD07_HighRange_20MHz_2560_OneRB
_high_Q16

FDD07_LowRange_20MHz_2510_fullRB
_Q16

FDD07_LowRange_20MHz_2510_OneRB
_high_Q16

FDD07_MidRange_20MHz_2535_fullRB
_Q16

FDD07_MidRange_20MHz_2535_OneRB
_high_Q16


FDD12_HighRange_10MHz_711_fullIRB
_Q16

FDD12_HighRange_10MHz_711_OneRB
_high_Q16

FDD12_LowRange_10MHz_704_fullIRB
_Q16

FDD12_LowRange_10MHz_704_OneRB
_high_Q16

FDD12_MidRange_10MHz_707.5_fullIRB
_Q16

FDD12_MidRange_10MHz_707.5_OneRB
_high_Q16


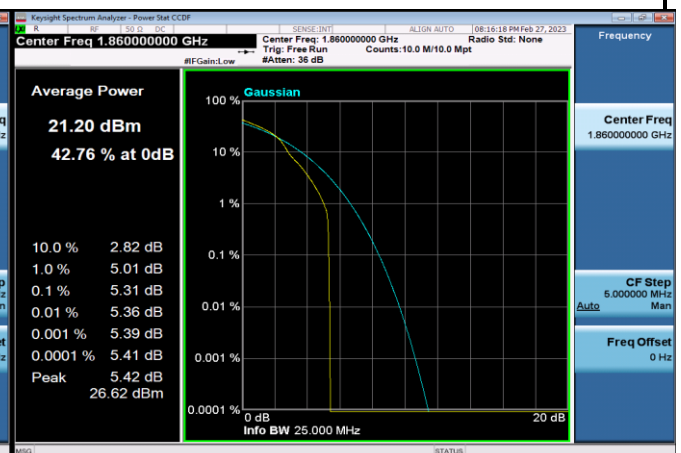
FDD13_LowRange_10MHz_782_fullRB
_Q16

FDD13_LowRange_10MHz_782_OneRB
_high_Q16

FDD13_LowRange_5MHz_779.5_fullRB
_Q16

FDD13_LowRange_5MHz_779.5_OneRB
_high_Q16

FDD13_MidRange_10MHz_782_fullRB
_Q16

FDD13_MidRange_10MHz_782_OneRB
_high_Q16


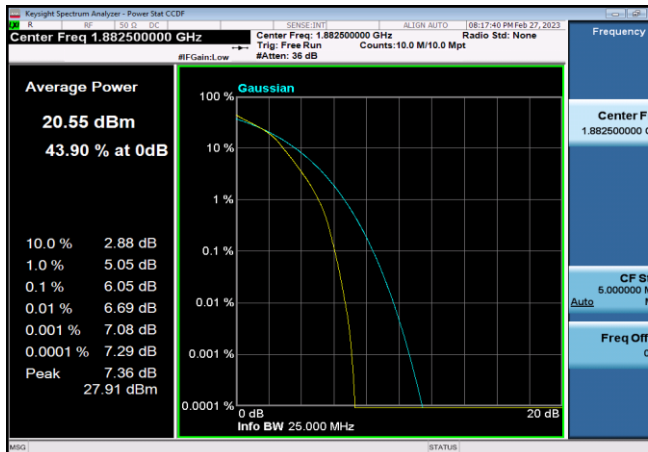
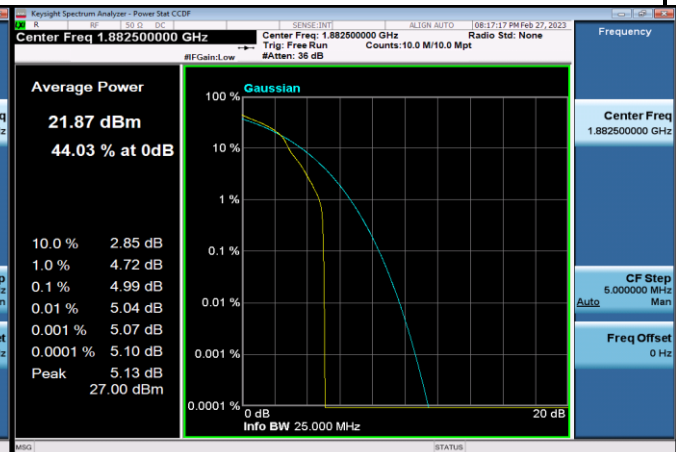
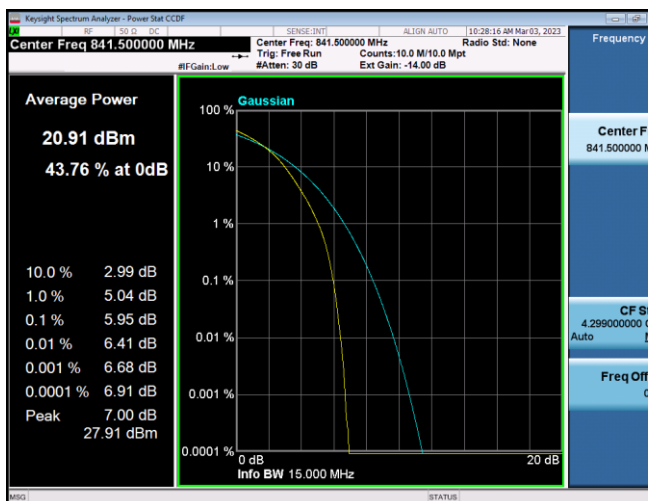
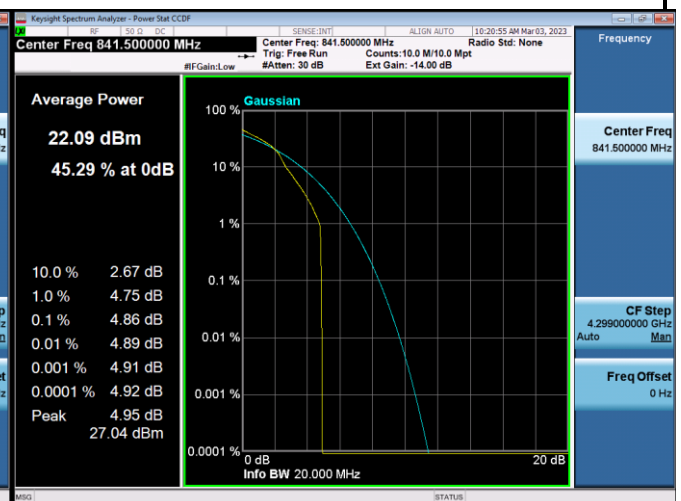
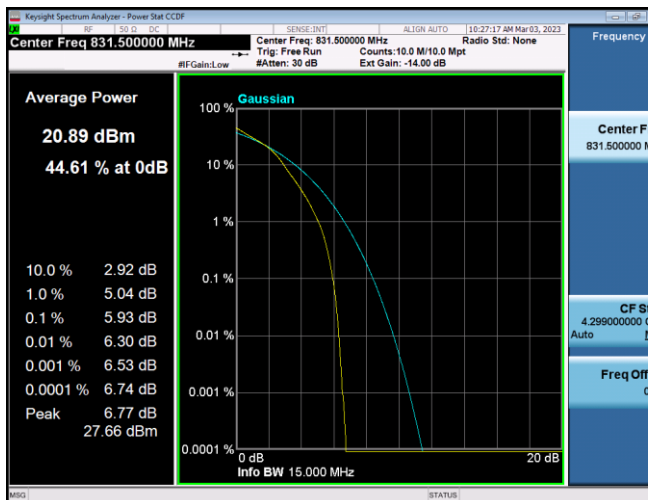
FDD13_MidRange_5MHz_782_fullIRB
_Q16

FDD13_MidRange_5MHz_782_OneRB_high
_Q16

FDD25_HighRange_20MHz_1905_fullIRB
_Q16


FDD25_HighRange_20MHz_1905_OneRB_high_Q16


FDD25_LowRange_20MHz_1860_fullIRB
_Q16


FDD25_LowRange_20MHz_1860_OneRB_high_Q16



FDD25_MidRange_20MHz_1882.5_fullRB
_Q16

FDD25_MidRange_20MHz_1882.5_OneRB
_high_Q16

FDD26-Part 22_HighRange_15MHz_831.5_fullRB
_Q16

FDD26-Part 22_HighRange_15MHz_831.5_OneRB
_high_Q16

FDD26-Part 22_LowRange_15MHz_836.5_fullRB
_Q16

FDD26-Part 22_LowRange_15MHz_836.5_OneRB
_high_Q16
