



RF TEST REPORT

Report No.: SET2019-02852

Product: LTE Digital Mobile Phone

FCC ID: 2AHJO-NX629J

Model No.: NX629J

Applicant: Nubia Technology Co., Ltd.

10/F, Tower A, Hans Innovation Mansion, North Ring

Address: Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China.

Dates of Testing: 03/01/2019 —04/25/2019

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu Xili Industrial Zone, Nanshan District Shenzhen, Guangdong 518055, China.

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Test Report

Product: LTE Digital Mobile Phone

Brand Name: nubia

Trade Name: nubia

Applicant: Nubia Technology Co., Ltd.

Applicant Address: 10/F, Tower A, Hans Innovation Mansion, North Ring Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China.

Manufacturer: Nubia Technology Co., Ltd.

Manufacturer Address: 10/F, Tower A, Hans Innovation Mansion, North Ring Rd., No.9018, High-Tech Park, Nanshan District, Shenzhen, China.

Test Standards: 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(D), 27(F), 90S

Test Result: PASS

Tested by

2019.04.25

Robin Luo, Test Engineer

Reviewed by

2019.04.25

Chris You, Senior Engineer

Approved by

2019.04.25

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Table of Contents

1. GENERAL INFORMATION	5
1.1 EUT Description.....	5
1.2 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator.....	7
1.3 Test Standards and Results.....	11
1.4 Test Configuration of Equipment Under Test	13
1.5 Measurement Results Explanation Example	15
1.6 Facilities and Accreditations	16
2. 47 CFR PART 2 REQUIREMENTS.....	17
2.1 Conducted RF Output Power.....	17
2.2 Peak to Average Radio	19
2.3 99% Occupied Bandwidth and 26dB Bandwidth	21
2.4 Frequency Stability	23
2.5 Conducted Out of Band Emissions.....	26
2.6 Conducted Band Edge	29
2.7 Transmitter Radiated Power (EIRP/ERP).....	32
2.8 EIRP Power Density.....	44
2.9 Radiated Out of Band Emissions	46
3. LIST OF MEASURING EQUIPMENT	57
APPENDIX A	58
Conducted RF (Average) Output Power	58
99% Occupied Bandwidth.....	163
26dB Bandwidth	184
Frequency Stability	201
Conducted Out of Band Emissions.....	217
Conducted Band Edge	242



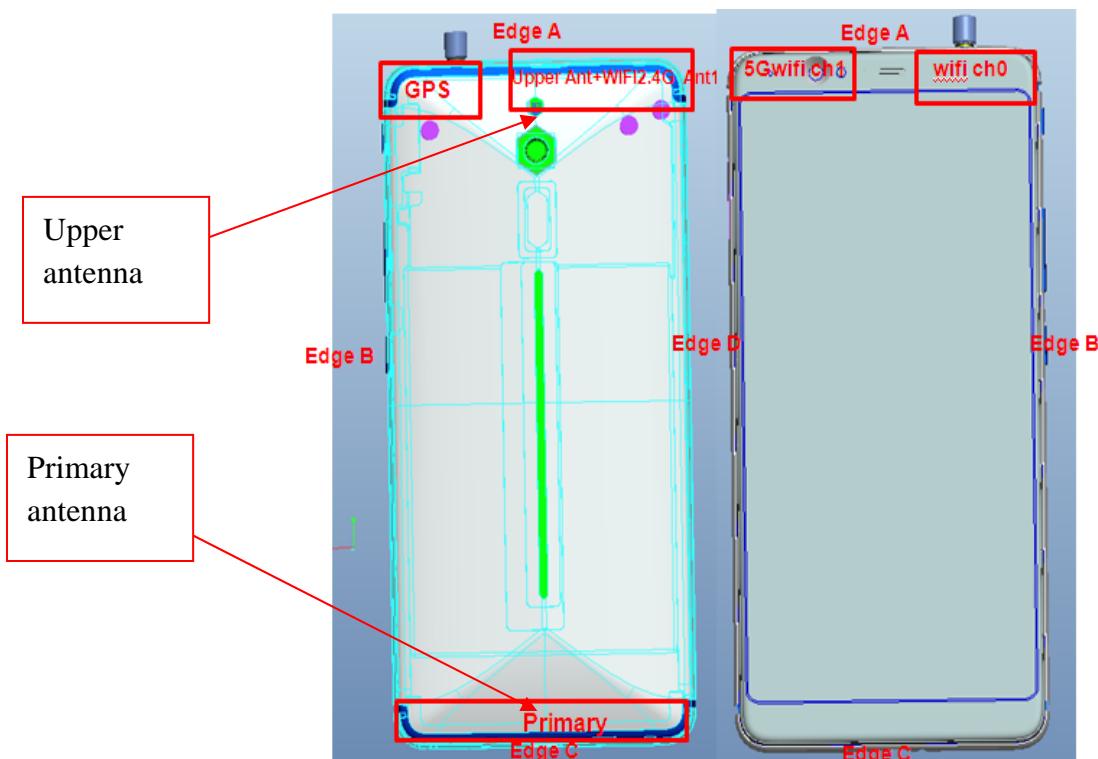
Change History		
Issue	Date	Reason for change
1.0	2019.04.25	First edition

1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	LTE Digital Mobile Phone
EUT supports Radios application	LTE Band 2/4/5/7/12/17/25/26/30/41/66
Frequency Range(Tx)	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 25: 1850.7MHz~1914.3MHz LTE Band 26: 814.7MHz~848.3MHz LTE Band 30: 2307.5MHz~2312.5MHz LTE Band 41: 2498.5MHz~2687.5MHz LTE Band 66: 1710.7MHz~1779.3MHz
Maximum Output Power to Antenna	LTE Band 2: 23..42dBm LTE Band 4: 23.24dBm LTE Band 5: 23.71dBm LTE Band 7: 23.64dBm LTE Band 12: 23.12dBm LTE Band 17: 23.15dBm LTE Band 25: 23.54dBm LTE Band 26: 23.56dBm LTE Band 30: 22.68dBm LTE Band 41: 23.21dBm LTE Band 66: 23.37dBm
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 25: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 26: 1.4MHz/3MHz/5MHz/10MHz/15MHz

	LTE Band 30: 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 (Upper antenna and Primary antenna)
Power supply	DC 3.8V from battery DC 5V from adapter

Antenna Location:

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	—	0.162
LTE Band 2	16QAM	1.4	1M09W7D	—	0.160
LTE Band 2	QPSK	3	2M68G7D	—	0.149
LTE Band 2	16QAM	3	2M68W7D	—	0.147
LTE Band 2	QPSK	5	4M50G7D	—	0.108
LTE Band 2	16QAM	5	4M50W7D	—	0.108
LTE Band 2	QPSK	10	8M94G7D	0.011	0.111
LTE Band 2	16QAM	10	8M93W7D	—	0.117
LTE Band 2	QPSK	15	13M5G7D	—	0.094
LTE Band 2	16QAM	15	13M5W7D	—	0.095
LTE Band 2	QPSK	20	17M9G7D	—	0.121
LTE Band 2	16QAM	20	17M9W7D	—	0.122
LTE Band 4	QPSK	1.4	1M09G7D	—	0.126
LTE Band 4	16QAM	1.4	1M09W7D	—	0.101
LTE Band 4	QPSK	3	2M68G7D	—	0.127
LTE Band 4	16QAM	3	2M68W7D	—	0.144
LTE Band 4	QPSK	5	4M50G7D	—	0.169
LTE Band 4	16QAM	5	4M50W7D	—	0.146
LTE Band 4	QPSK	10	8M95G7D	0.011	0.134
LTE Band 4	16QAM	10	8M94W7D	—	0.116
LTE Band 4	QPSK	15	13M5G7D	—	0.105
LTE Band 4	16QAM	15	13M5W7D	—	0.085
LTE Band 4	QPSK	20	17M9G7D	—	0.107
LTE Band 4	16QAM	20	17M9W7D	—	0.089

LTE Band 5	QPSK	1.4	1M09G7D	—	0.115
LTE Band 5	16QAM	1.4	1M09W7D	—	0.121
LTE Band 5	QPSK	3	2M68G7D	—	0.117
LTE Band 5	16QAM	3	2M68W7D	—	0.124
LTE Band 5	QPSK	5	4M51G7D	—	0.091
LTE Band 5	16QAM	5	4M51W7D	—	0.094
LTE Band 5	QPSK	10	8M97G7D	0.016	0.093
LTE Band 5	16QAM	10	8M96W7D	—	0.092
LTE Band 7	QPSK	5	4M49G7D	—	0.130
LTE Band 7	16QAM	5	4M50W7D	—	0.132
LTE Band 7	QPSK	10	8M94G7D	0.009	0.129
LTE Band 7	16QAM	10	8M93W7D	—	0.136
LTE Band 7	QPSK	15	13M5G7D	—	0.132
LTE Band 7	16QAM	15	13M5W7D	—	0.110
LTE Band 7	QPSK	20	17M9G7D	—	0.108
LTE Band 7	16QAM	20	17M9W7D	—	0.107
LTE Band 12	QPSK	1.4	1M09G7D	—	0.088
LTE Band 12	16QAM	1.4	1M09W7D	—	0.072
LTE Band 12	QPSK	3	2M67G7D	—	0.125
LTE Band 12	16QAM	3	2M67W7D	—	0.073
LTE Band 12	QPSK	5	4M49G7D	—	0.091
LTE Band 12	16QAM	5	4M49W7D	—	0.074
LTE Band 12	QPSK	10	8M90G7D	0.018	0.101
LTE Band 12	16QAM	10	8M90W7D	—	0.082
LTE Band 17	QPSK	5	4M48G7D	—	0.102
LTE Band 17	16QAM	5	4M48W7D	—	0.065
LTE Band 17	QPSK	10	8M93G7D	0.020	0.101
LTE Band 17	16QAM	10	8M92W7D	—	0.069

LTE Band 25	QPSK	1.4	1M09G7D	—	0.122
LTE Band 25	16QAM	1.4	1M09W7D	—	0.102
LTE Band 25	QPSK	3	2M68G7D	—	0.124
LTE Band 25	16QAM	3	2M67W7D	—	0.110
LTE Band 25	QPSK	5	4M49G7D	—	0.133
LTE Band 25	16QAM	5	4M49W7D	—	0.106
LTE Band 25	QPSK	10	8M92G7D	0.003	0.151
LTE Band 25	16QAM	10	8M91W7D	—	0.121
LTE Band 25	QPSK	15	13M4G7D	—	0.153
LTE Band 25	16QAM	15	13M4W7D	—	0.123
LTE Band 25	QPSK	20	17M8G7D	—	0.156
LTE Band 25	16QAM	20	17M8W7D	—	0.125
LTE Band 26	QPSK	1.4	1M09G7D	—	0.111
LTE Band 26	16QAM	1.4	1M09W7D	—	0.093
LTE Band 26	QPSK	3	2M68G7D	—	0.113
LTE Band 26	16QAM	3	2M68W7D	—	0.100
LTE Band 26	QPSK	5	4M49G7D	—	0.121
LTE Band 26	16QAM	5	4M49W7D	—	0.097
LTE Band 26	QPSK	10	8M92G7D	0.003	0.138
LTE Band 26	16QAM	10	8M91W7D	—	0.110
LTE Band 26	QPSK	15	13M4G7D	—	0.140
LTE Band 26	16QAM	15	13M4W7D	—	0.112
LTE Band 30	QPSK	5	4M50G7D	—	0.169
LTE Band 30	16QAM	5	4M50W7D	—	0.146
LTE Band 30	QPSK	10	8M95G7D	0.011	0.134
LTE Band 30	16QAM	10	8M94W7D	—	0.116
LTE Band 41	QPSK	5	4M82G7D	—	0.112
LTE Band 41	16QAM	5	4M78W7D	—	0.143



LTE Band 41	QPSK	10	9M32G7D	0.009	0.145
LTE Band 41	16QAM	10	9M34W7D	—	0.145
LTE Band 41	QPSK	15	14M2G7D	—	0.147
LTE Band 41	16QAM	15	14M2W7D	—	0.117
LTE Band 41	QPSK	20	18M7G7D	—	0.110
LTE Band 41	16QAM	20	18M7W7D	—	0.111
LTE Band 66	QPSK	1.4	1M09G7D	—	0.123
LTE Band 66	16QAM	1.4	1M09W7D	—	0.095
LTE Band 66	QPSK	3	2M68G7D	—	0.127
LTE Band 66	16QAM	3	2M67W7D	—	0.102
LTE Band 66	QPSK	5	4M49G7D	—	0.126
LTE Band 66	16QAM	5	4M49W7D	—	0.104
LTE Band 66	QPSK	10	8M93G7D	0.009	0.126
LTE Band 66	16QAM	10	8M93W7D	—	0.086
LTE Band 66	QPSK	15	13M6G7D	—	0.124
LTE Band 66	16QAM	15	13M5W7D	—	0.100
LTE Band 66	QPSK	20	17M9G7D	—	0.129
LTE Band 66	16QAM	20	17M9W7D	—	0.103

1.3 Test Standards and Results

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

1. 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(D), 27(F), 90S
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	Description	Limit	Result
1	2.1046	Conducted RF Output Power	Reporting Only	PASS
2	§24.232(d)	Peak to Average Radio	<13dB	PASS
	§22.913(a)(2)	Effective Radiated Power (Band 5/26)	ERP < 7 Watt	PASS
3	§24.232(c) §27.50(h)(2) §27.50(a)(3)	Equivalent Isotropic Radiated Power (Band 2/7/25/41) EIRP Power Density (Band 30)	EIRP < 2Watt EIRP < 250mW/5MHz	PASS
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12/17)	ERP < 3 Watt	PASS
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt	PASS
4	2.1049	Occupied Bandwidth	Reporting Only	PASS

5	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h) §90.691 2.1051 27.53(m)(4)	Conducted Band Edge Measurement (Band 2/4/5/12/17/25/26/66) Band 7/41 Band 30	<43+10log10(P[watt]) <5.5MHz: -13dBm ≥5.5MHz: -25dBm (Band7) Refer to standard (Band 30)	PASS
6	2.1051 §22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	Conducted Spurious Emission Measurement (Band 2/4/5/12/17/25/26)	<43+10log10(P[watt])	PASS
6	2.1051 27.53(m)(4) 27.53(i)(4)	Conducted Spurious Emission (Band 7/41)	<55+10log10(P[watt])	PASS
	27.53(a)(4)	Conducted Spurious Emission (Band 30)	<70+10log10(P[watt])	PASS
7	2.1053 §22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h) §90.691	Radiated Spurious Emission (Band 2/4/5/12/17/25/26)	<43+10log10(P[watt])	PASS
7	2.1053 27.53(m)(4) §90.691 27.53(i)(4)	Radiated Spurious Emission (Band 7/41)	<55+10log10(P[watt])	PASS
	27.53(a)(4)	Conducted Spurious Emission (Band 30)	<70+10log10(P[watt])	PASS
8	2.1055 22.335 24.235 27.54 90.691	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			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	26	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
	30			✓	✓			✓	✓	✓	✓				
	41			✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Peak-to-Average Ratio	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	2				✓				✓	✓		✓	✓	✓	✓
	4				✓				✓	✓		✓	✓	✓	✓
	5				✓				✓	✓		✓	✓	✓	✓
	7				✓				✓	✓		✓	✓	✓	✓
	12				✓				✓	✓		✓	✓	✓	✓
	17				✓				✓	✓		✓	✓	✓	✓
	25				✓				✓	✓		✓	✓	✓	✓
	26				✓				✓	✓		✓	✓	✓	✓
	30				✓				✓	✓		✓	✓	✓	✓
26dB and 99%	41				✓				✓	✓		✓	✓	✓	✓
	66				✓				✓	✓		✓	✓	✓	✓

Bandwidth	4	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓
	5	✓	✓	✓	✓			✓	✓			✓		✓
	7			✓	✓	✓	✓	✓	✓			✓		✓
	12	✓	✓	✓	✓			✓	✓			✓		✓
	17			✓	✓	✓	✓	✓	✓			✓		✓
	25	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓
	26	✓	✓	✓	✓	✓		✓	✓			✓		✓
	30			✓	✓			✓	✓			✓		✓
	41			✓	✓	✓	✓	✓	✓			✓		✓
	66	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓			✓	✓			✓	✓	✓
	7			✓	✓	✓	✓	✓	✓			✓	✓	✓
	12	✓	✓	✓	✓			✓	✓			✓	✓	✓
	17			✓	✓	✓	✓	✓	✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	26	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓
	30			✓	✓			✓	✓			✓	✓	✓
	41			✓	✓	✓	✓	✓	✓			✓	✓	✓
Conducted Spurious Emission	2	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓			✓	✓			✓	✓	✓
	7			✓	✓	✓	✓	✓	✓			✓	✓	✓
	12	✓	✓	✓	✓			✓	✓			✓	✓	✓
	17			✓	✓	✓	✓	✓	✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	26	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓
	30			✓	✓			✓	✓			✓	✓	✓
	41			✓	✓	✓	✓	✓	✓			✓	✓	✓
Frequency Stability	2				✓			✓				✓		✓
	4				✓			✓				✓		✓
	5				✓			✓				✓		✓
	7				✓			✓				✓		✓
	12				✓			✓				✓		✓
	17				✓			✓				✓		✓
	25				✓			✓				✓		✓
Frequency Stability	26				✓			✓				✓		✓

	30				✓			✓				✓		✓
	41				✓			✓				✓		✓
	66				✓			✓				✓		✓
ERP/EIRP	2	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓		✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓		✓	✓	✓
	17			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	26	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
	30			✓	✓			✓	✓	✓		✓	✓	✓
	41			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Radiated Spurious Emission	66	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	2	Worst case												✓
	4	Worst case												✓
	5	Worst case												✓
	7	Worst case												✓
	12	Worst case												✓
	17	Worst case												✓
	25	Worst case												✓
	26	Worst case												✓
	30	Worst case												✓
	41	Worst case												✓
	66	Worst case												✓

Note:1. The mark “ ✓ ” means that this configuration is chosen for testing.

2.The EUT has two WWAN antennas , upper antenna and primary antenna. The antenna which has the maximum power were used for all the tests.

3.For ERP/EIRP, all the antennas (upper antenna and primary antenna) have been tested, the worst data reported only.

4. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz, ERP over 15MHz bandwidth complies the ERP limit line of part 22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complied

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 Electronic Product Testing (Shenzhen) 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 Dec. 31, 2019.

ISED Registration: 11185A-1

CAB identifier: CN0064

CCIC Southern Electronic Product Testing (Shenzhen) 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, 2019.

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 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 RF Output Power

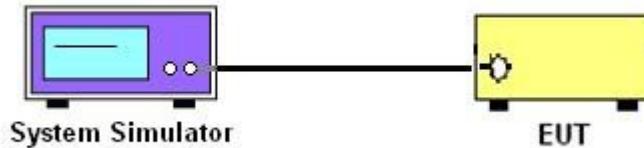
2.1.1 Requirement

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 Radio

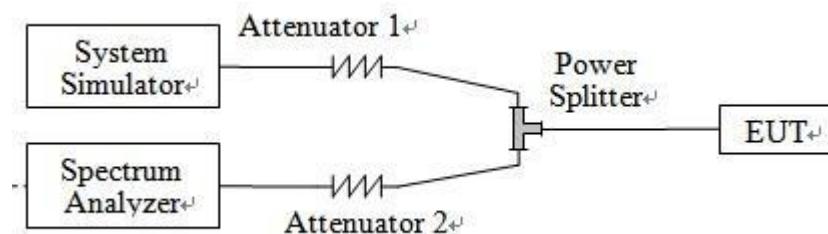
2.2.1 Definition

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

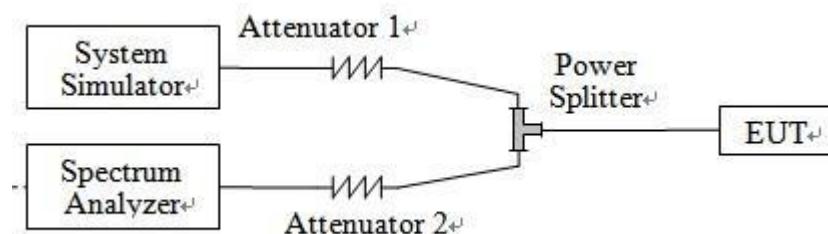
According to FCC section 2.1049, the occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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:

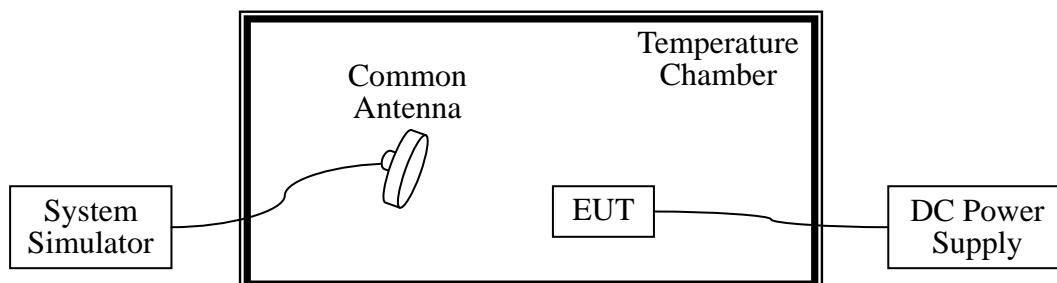
(a) The temperature is varied from -30°C to $+50^\circ\text{C}$ at intervals of not more than 10°C .

(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 manufacturer. 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:

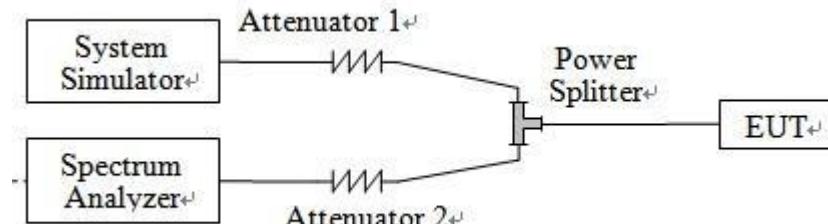
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

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 Band 30
The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$
 $= -40 \text{ dBm.}$
10. 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 $43 + 10 \log(P)$ 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 $43 + 10 \log(P)$ 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.

27.53(g)

For operations in the 698 – 746 MHz band, the FCC limit is $43 + 10 \log(P)$ dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100kHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least 30kHz may be employed.

27.53(a)

(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

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.

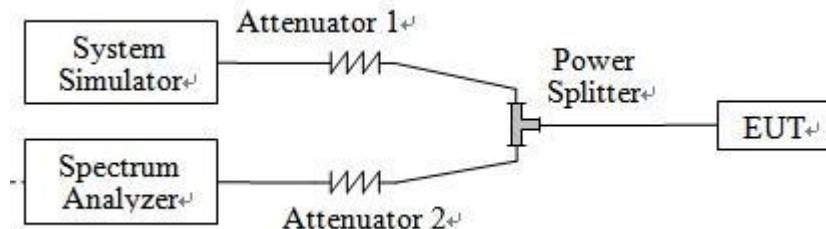
90.691(a)(2)

For any frequency removed from assigned frequency by out of the authorized bandwidth by at least $43 + 10\log(P)$ dB, it is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10th harmonic.

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

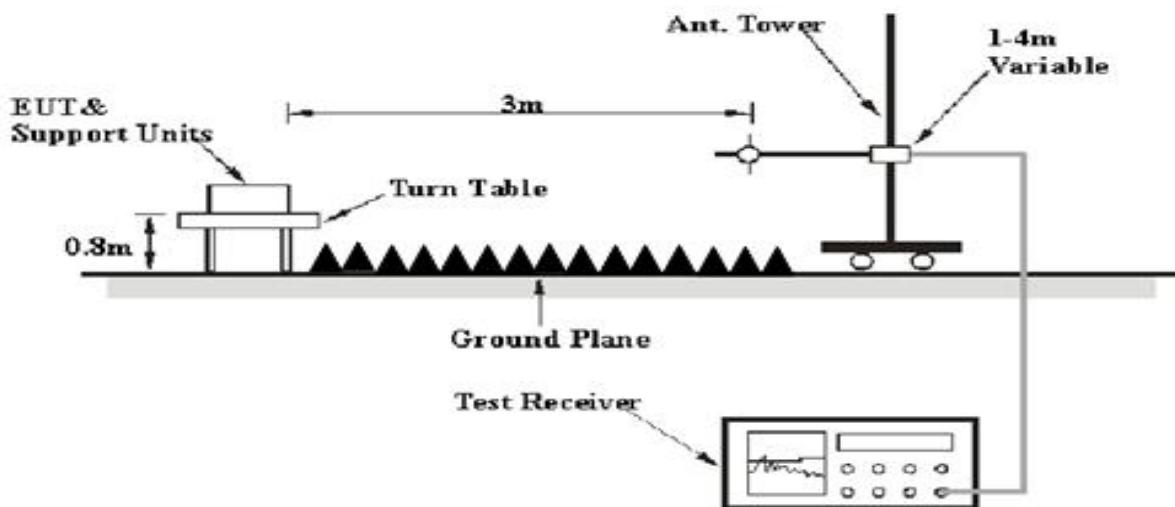
Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5/26 and 3 watts with LTE band 12/17.

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 / 25 / 7 and 1 watt with LTE band 4 and 66.

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. $\text{ERP/EIRP} = \text{Ps} + \text{Et} - \text{Es} + \text{Gs} = \text{Ps} + \text{Rt} - \text{Rs} + \text{Gs}$

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

$\text{Et} = \text{Rt} + \text{AF}$

$\text{Es} = \text{Rs} + \text{AF}$

AF (dB/m): Receive antenna factor

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

Rs: 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	3	1850.7	21.72	PASS
2	1.4	QPSK	1	3	1880	22.09	PASS
2	1.4	QPSK	1	3	1909.3	21.77	PASS
2	1.4	16QAM	1	0	1850.7	20.86	PASS
2	1.4	16QAM	1	0	1880	21.36	PASS
2	1.4	16QAM	1	0	1909.3	22.03	PASS
2	3	QPSK	1	8	1851.5	21.40	PASS
2	3	QPSK	1	8	1880	21.44	PASS
2	3	QPSK	1	8	1908.5	21.72	PASS
2	3	16QAM	1	0	1851.5	21.68	PASS
2	3	16QAM	1	0	1880	21.65	PASS
2	3	16QAM	1	0	1908.5	21.66	PASS
2	5	QPSK	1	0	1852.5	20.32	PASS
2	5	QPSK	1	0	1880	20.29	PASS
2	5	QPSK	1	0	1907.5	20.31	PASS
2	5	16QAM	1	24	1852.5	20.35	PASS
2	5	16QAM	1	24	1880	20.34	PASS
2	5	16QAM	1	24	1907.5	20.32	PASS
2	10	QPSK	1	49	1855	20.44	PASS
2	10	QPSK	1	49	1880	20.46	PASS
2	10	QPSK	1	49	1905	20.43	PASS
2	10	16QAM	1	0	1855	20.69	PASS
2	10	16QAM	1	0	1880	20.67	PASS
2	10	16QAM	1	0	1905	20.70	PASS
2	15	QPSK	1	74	1857.5	19.73	PASS
2	15	QPSK	1	74	1880	19.70	PASS
2	15	QPSK	1	74	1902.5	19.75	PASS
2	15	16QAM	1	0	1857.5	19.77	PASS
2	15	16QAM	1	0	1880	19.75	PASS
2	15	16QAM	1	0	1902.5	19.78	PASS
2	20	QPSK	1	0	1860	20.80	PASS
2	20	QPSK	1	0	1880	20.82	PASS
2	20	QPSK	1	0	1900	20.81	PASS
2	20	16QAM	1	0	1860	20.85	PASS
2	20	16QAM	1	0	1880	20.82	PASS
2	20	16QAM	1	0	1900	20.72	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	20.91	PASS
4	1.4	QPSK	1	0	1732.5	20.99	PASS
4	1.4	QPSK	1	0	1754.3	20.94	PASS
4	1.4	16QAM	1	3	1710.7	20.01	PASS
4	1.4	16QAM	1	3	1732.5	20.04	PASS
4	1.4	16QAM	1	3	1754.3	20.01	PASS
4	3	QPSK	1	0	1711.5	21.02	PASS
4	3	QPSK	1	0	1732.5	21.03	PASS
4	3	QPSK	1	0	1753.5	21.01	PASS
4	3	16QAM	1	14	1711.5	21.57	PASS
4	3	16QAM	1	14	1732.5	21.55	PASS
4	3	16QAM	1	14	1753.5	21.53	PASS
4	5	QPSK	1	0	1712.5	22.26	PASS
4	5	QPSK	1	0	1732.5	22.25	PASS
4	5	QPSK	1	0	1752.5	22.28	PASS
4	5	16QAM	1	0	1712.5	21.64	PASS
4	5	16QAM	1	0	1732.5	21.60	PASS
4	5	16QAM	1	0	1752.5	21.62	PASS
4	10	QPSK	1	0	1715	21.27	PASS
4	10	QPSK	1	0	1732.5	21.25	PASS
4	10	QPSK	1	0	1750	21.24	PASS
4	10	16QAM	1	24	1715	20.61	PASS
4	10	16QAM	1	24	1732.5	20.63	PASS
4	10	16QAM	1	24	1750	20.60	PASS
4	15	QPSK	1	74	1717.5	20.17	PASS
4	15	QPSK	1	74	1732.5	20.20	PASS
4	15	QPSK	1	74	1747.5	20.18	PASS
4	15	16QAM	1	74	1717.5	19.31	PASS
4	15	16QAM	1	74	1732.5	19.26	PASS
4	15	16QAM	1	74	1747.5	19.28	PASS
4	20	QPSK	1	0	1720	20.24	PASS
4	20	QPSK	1	0	1732.5	20.27	PASS
4	20	QPSK	1	0	1745	20.29	PASS
4	20	16QAM	1	0	1720	19.38	PASS
4	20	16QAM	1	0	1732.5	19.41	PASS
4	20	16QAM	1	0	1745	19.48	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	3	824.7	20.58	PASS
5	1.4	QPSK	1	3	836.5	20.61	PASS
5	1.4	QPSK	1	3	848.3	20.60	PASS
5	1.4	16QAM	1	3	824.7	20.65	PASS
5	1.4	16QAM	1	3	836.5	20.63	PASS
5	1.4	16QAM	1	3	848.3	20.82	PASS
5	3	QPSK	1	0	825.5	20.65	PASS
5	3	QPSK	1	0	836.5	20.69	PASS
5	3	QPSK	1	0	847.5	20.67	PASS
5	3	16QAM	1	0	825.5	20.93	PASS
5	3	16QAM	1	0	836.5	20.90	PASS
5	3	16QAM	1	0	847.5	20.91	PASS
5	5	QPSK	1	0	826.5	19.58	PASS
5	5	QPSK	1	0	836.5	19.55	PASS
5	5	QPSK	1	0	846.5	19.56	PASS
5	5	16QAM	1	0	826.5	19.73	PASS
5	5	16QAM	1	0	836.5	19.70	PASS
5	5	16QAM	1	0	846.5	19.71	PASS
5	10	QPSK	1	49	829.0	19.43	PASS
5	10	QPSK	1	49	836.5	19.44	PASS
5	10	QPSK	1	49	844.0	19.70	PASS
5	10	16QAM	1	0	829.0	19.03	PASS
5	10	16QAM	1	0	836.5	19.62	PASS
5	10	16QAM	1	0	844.0	19.49	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	21.04	PASS
7	5	QPSK	1	0	2535	21.08	PASS
7	5	QPSK	1	24	2567.5	21.14	PASS
7	5	16QAM	1	24	2502.5	21.20	PASS
7	5	16QAM	1	24	2535	21.13	PASS
7	5	16QAM	1	0	2567.5	21.18	PASS
7	10	QPSK	1	24	2505	21.11	PASS
7	10	QPSK	1	49	2535	21.06	PASS
7	10	QPSK	1	24	2565	21.01	PASS
7	10	16QAM	1	24	2505	21.42	PASS
7	10	16QAM	1	49	2535	21.35	PASS
7	10	16QAM	1	24	2565	21.33	PASS
7	15	QPSK	1	37	2507.5	20.23	PASS
7	15	QPSK	1	74	2535	20.25	PASS
7	15	QPSK	1	0	2562.5	21.19	PASS
7	15	16QAM	1	37	2507.5	20.36	PASS
7	15	16QAM	1	18	2535	20.41	PASS
7	15	16QAM	1	0	2562.5	20.39	PASS
7	20	QPSK	1	0	2510	20.25	PASS
7	20	QPSK	1	0	2535	20.33	PASS
7	20	QPSK	1	0	2560	20.31	PASS
7	20	16QAM	1	0	2510	20.29	PASS
7	20	16QAM	1	0	2535	19.42	PASS
7	20	16QAM	1	0	2560	19.35	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	1	0	699.7	19.42	PASS
12	1.4	QPSK	1	0	707.5	19.40	PASS
12	1.4	QPSK	1	0	715.3	19.43	PASS
12	1.4	16QAM	1	0	699.7	18.58	PASS
12	1.4	16QAM	1	0	707.5	18.57	PASS
12	1.4	16QAM	1	0	715.3	18.55	PASS
12	3	QPSK	1	0	700.5	19.98	PASS
12	3	QPSK	1	0	707.5	20.97	PASS
12	3	QPSK	1	0	714.5	20.95	PASS
12	3	16QAM	1	8	700.5	18.63	PASS
12	3	16QAM	1	8	707.5	18.65	PASS
12	3	16QAM	1	8	714.5	18.66	PASS
12	5	QPSK	1	24	701.5	19.58	PASS
12	5	QPSK	1	24	707.5	19.56	PASS
12	5	QPSK	1	24	713.5	19.54	PASS
12	5	16QAM	1	0	701.5	18.68	PASS
12	5	16QAM	1	0	707.5	18.71	PASS
12	5	16QAM	1	0	713.5	18.70	PASS
12	10	QPSK	1	49	704	19.99	PASS
12	10	QPSK	1	49	707.5	20.01	PASS
12	10	QPSK	1	49	711	20.03	PASS
12	10	16QAM	1	0	704	19.16	PASS
12	10	16QAM	1	0	707.5	19.15	PASS
12	10	16QAM	1	0	711	19.12	PASS



5.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	19.99	PASS
17	5	QPSK	1	24	710	20.03	PASS
17	5	QPSK	1	12	713.5	20.09	PASS
17	5	16QAM	1	24	706.5	18.15	PASS
17	5	16QAM	1	24	710	18.08	PASS
17	5	16QAM	1	12	713.5	18.13	PASS
17	10	QPSK	1	49	709	20.06	PASS
17	10	QPSK	1	49	710	20.01	PASS
17	10	QPSK	1	49	711	19.96	PASS
17	10	16QAM	1	24	709	18.37	PASS
17	10	16QAM	1	49	710	18.30	PASS
17	10	16QAM	1	24	711	18.28	PASS



6.LTE Band 25 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
25	1.4	QPSK	1	0	1850.7	20.83	PASS
25	1.4	QPSK	1	0	1882.5	20.86	PASS
25	1.4	QPSK	1	0	1914.3	20.85	PASS
25	1.4	16QAM	1	3	1850.7	20.10	PASS
25	1.4	16QAM	1	3	1882.5	20.08	PASS
25	1.4	16QAM	1	3	1914.3	20.07	PASS
25	3	QPSK	1	0	1851.5	20.90	PASS
25	3	QPSK	1	0	1882.5	20.94	PASS
25	3	QPSK	1	0	1913.5	20.92	PASS
25	3	16QAM	1	0	1851.5	20.40	PASS
25	3	16QAM	1	0	1882.5	20.37	PASS
25	3	16QAM	1	0	1913.5	20.38	PASS
25	5	QPSK	1	0	1852.5	21.24	PASS
25	5	QPSK	1	0	1882.5	21.21	PASS
25	5	QPSK	1	0	1912.5	21.23	PASS
25	5	16QAM	1	24	1852.5	20.27	PASS
25	5	16QAM	1	24	1882.5	20.26	PASS
25	5	16QAM	1	24	1912.5	20.24	PASS
25	10	QPSK	1	0	1855.0	21.77	PASS
25	10	QPSK	1	0	1882.5	21.79	PASS
25	10	QPSK	1	0	1910.0	21.76	PASS
25	10	16QAM	1	0	1855.0	20.80	PASS
25	10	16QAM	1	0	1882.5	20.78	PASS
25	10	16QAM	1	0	1910.0	20.81	PASS
25	15	QPSK	1	74	1857.5	21.84	PASS
25	15	QPSK	1	74	1882.5	21.81	PASS
25	15	QPSK	1	74	1907.5	21.86	PASS
25	15	16QAM	1	0	1857.5	20.88	PASS
25	15	16QAM	1	0	1882.5	20.86	PASS
25	15	16QAM	1	0	1907.5	20.89	PASS
25	20	QPSK	1	0	1860.0	21.91	PASS
25	20	QPSK	1	0	1882.5	21.93	PASS
25	20	QPSK	1	0	1905.0	21.92	PASS
25	20	16QAM	1	0	1860.0	20.96	PASS
25	20	16QAM	1	0	1882.5	20.93	PASS
25	20	16QAM	1	0	1905.0	20.94	PASS



7.LTE Band 26 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
26	1.4	QPSK	1	0	814.7	20.43	PASS
26	1.4	QPSK	1	0	819.0	20.46	PASS
26	1.4	QPSK	1	0	823.3	20.45	PASS
26	1.4	16QAM	1	0	814.7	19.70	PASS
26	1.4	16QAM	1	0	819.0	19.68	PASS
26	1.4	16QAM	1	0	823.3	19.67	PASS
26	3	QPSK	1	8	815.5	20.50	PASS
26	3	QPSK	1	8	819.0	20.54	PASS
26	3	QPSK	1	8	822.5	20.52	PASS
26	3	16QAM	1	0	815.5	20.00	PASS
26	3	16QAM	1	0	819.0	19.97	PASS
26	3	16QAM	1	0	822.5	19.98	PASS
26	5	QPSK	1	24	816.5	20.84	PASS
26	5	QPSK	1	24	819.0	20.81	PASS
26	5	QPSK	1	24	821.5	20.83	PASS
26	5	16QAM	1	0	816.5	19.87	PASS
26	5	16QAM	1	0	819.0	19.86	PASS
26	5	16QAM	1	0	821.5	19.84	PASS
26	10	QPSK	1	0	819.0	21.37	PASS
26	10	QPSK	1	0	831.5	21.39	PASS
26	10	QPSK	1	0	844.0	21.36	PASS
26	10	16QAM	1	49	819.0	20.40	PASS
26	10	16QAM	1	49	831.5	20.38	PASS
26	10	16QAM	1	49	844.0	20.41	PASS
26	15	QPSK	1	74	821.5	21.44	PASS
26	15	QPSK	1	74	831.5	21.41	PASS
26	15	QPSK	1	74	841.5	21.46	PASS
26	15	16QAM	1	0	821.5	20.48	PASS
26	15	16QAM	1	0	831.5	20.46	PASS
26	15	16QAM	1	0	841.5	20.49	PASS



8.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	20.51	PASS
41	5	QPSK	1	0	2593.0	20.48	PASS
41	5	QPSK	1	0	2687.5	20.50	PASS
41	5	16QAM	1	0	2498.5	21.54	PASS
41	5	16QAM	1	0	2593.0	21.53	PASS
41	5	16QAM	1	0	2687.5	21.51	PASS
41	10	QPSK	1	49	2501.0	21.58	PASS
41	10	QPSK	1	49	2593.0	21.60	PASS
41	10	QPSK	1	49	2685.0	21.57	PASS
41	10	16QAM	1	0	2501.0	21.61	PASS
41	10	16QAM	1	0	2593.0	21.59	PASS
41	10	16QAM	1	0	2685.0	21.62	PASS
41	15	QPSK	1	0	2503.5	21.65	PASS
41	15	QPSK	1	0	2593.0	21.62	PASS
41	15	QPSK	1	0	2682.5	21.67	PASS
41	15	16QAM	1	74	2503.5	20.69	PASS
41	15	16QAM	1	74	2593.0	20.67	PASS
41	15	16QAM	1	74	2682.5	20.70	PASS
41	20	QPSK	1	0	2506.0	20.40	PASS
41	20	QPSK	1	0	2593.0	20.42	PASS
41	20	QPSK	1	0	2680.0	20.41	PASS
41	20	16QAM	1	49	2506.0	20.45	PASS
41	20	16QAM	1	49	2593.0	20.42	PASS
41	20	16QAM	1	49	2680.0	20.43	PASS

9. LTE Band 66 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	20.91	PASS
66	1.4	QPSK	1	0	1732.5	20.71	PASS
66	1.4	QPSK	1	0	1754.3	20.66	PASS
66	1.4	16QAM	1	3	1710.7	19.73	PASS
66	1.4	16QAM	1	3	1732.5	19.76	PASS
66	1.4	16QAM	1	3	1754.3	19.73	PASS
66	3	QPSK	1	0	1711.5	21.04	PASS
66	3	QPSK	1	0	1732.5	21.05	PASS
66	3	QPSK	1	0	1753.5	20.73	PASS
66	3	16QAM	1	14	1711.5	20.09	PASS
66	3	16QAM	1	14	1732.5	20.07	PASS
66	3	16QAM	1	14	1753.5	20.05	PASS
66	5	QPSK	1	0	1712.5	20.98	PASS
66	5	QPSK	1	0	1732.5	20.97	PASS
66	5	QPSK	1	0	1752.5	21.00	PASS
66	5	16QAM	1	0	1712.5	20.16	PASS
66	5	16QAM	1	0	1732.5	20.02	PASS
66	5	16QAM	1	0	1752.5	20.04	PASS
66	10	QPSK	1	0	1715	20.99	PASS
66	10	QPSK	1	0	1732.5	20.97	PASS
66	10	QPSK	1	0	1750	20.96	PASS
66	10	16QAM	1	24	1715	19.33	PASS
66	10	16QAM	1	24	1732.5	19.35	PASS
66	10	16QAM	1	24	1750	19.32	PASS
66	15	QPSK	1	74	1717.5	20.89	PASS
66	15	QPSK	1	74	1732.5	20.92	PASS
66	15	QPSK	1	74	1747.5	20.90	PASS
66	15	16QAM	1	74	1717.5	19.93	PASS
66	15	16QAM	1	74	1732.5	19.98	PASS
66	15	16QAM	1	74	1747.5	20.00	PASS
66	20	QPSK	1	0	1720	21.06	PASS
66	20	QPSK	1	0	1732.5	21.09	PASS
66	20	QPSK	1	0	1745	21.01	PASS
66	20	16QAM	1	0	1720	20.00	PASS
66	20	16QAM	1	0	1732.5	20.13	PASS
66	20	16QAM	1	0	1745	20.12	PASS



2.8 EIRP Power Density

2.8.1 Description of EIRP Power Density

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

2.8.2 Test Procedures

- 1 The testing follows FCC KDB971168 v02r02 Section 5.7.1.
2. Set instrument center frequency to OBW center frequency.
3. Set span to at least 1.5 times OBW
4. Set RBW to the specified reference bandwidth(5MHz)
5. Set VBW $\geq 3 \times$ RBW
6. Detector=RMS(power averaging)
7. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
8. Sweep time=auto couple
9. Employ trace averaging(RMS) mode over a minimum of 100 trace
10. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD)

2.8.3 Test Result of EIRP Power Density

Mode	LTE Band 30:Conducted power Density(dBm/5MHz)			
BW	5MHz		10MHz	
Mode	QPSK	16QAM	QPSK	16QAM
Lowest CH	23.26	23.37		
Middle CH	23.11	23.29	22.67	23.03
Highest CH	23.05	23.61		

Mode	LTE Band 30:EIRP Density(dBm/5MHz)			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM		
Lowest CH	21.26	21.37		
Middle CH	21.11	21.29	20.67	21.03
Highest CH	21.05	21.61		
Antenna Gain	-2dBi			
Limit	250Mw/5MHz=24dBm/5MHz			
Test result	PASS			

2.9 Radiated Out of Band Emissions

2.9.1 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

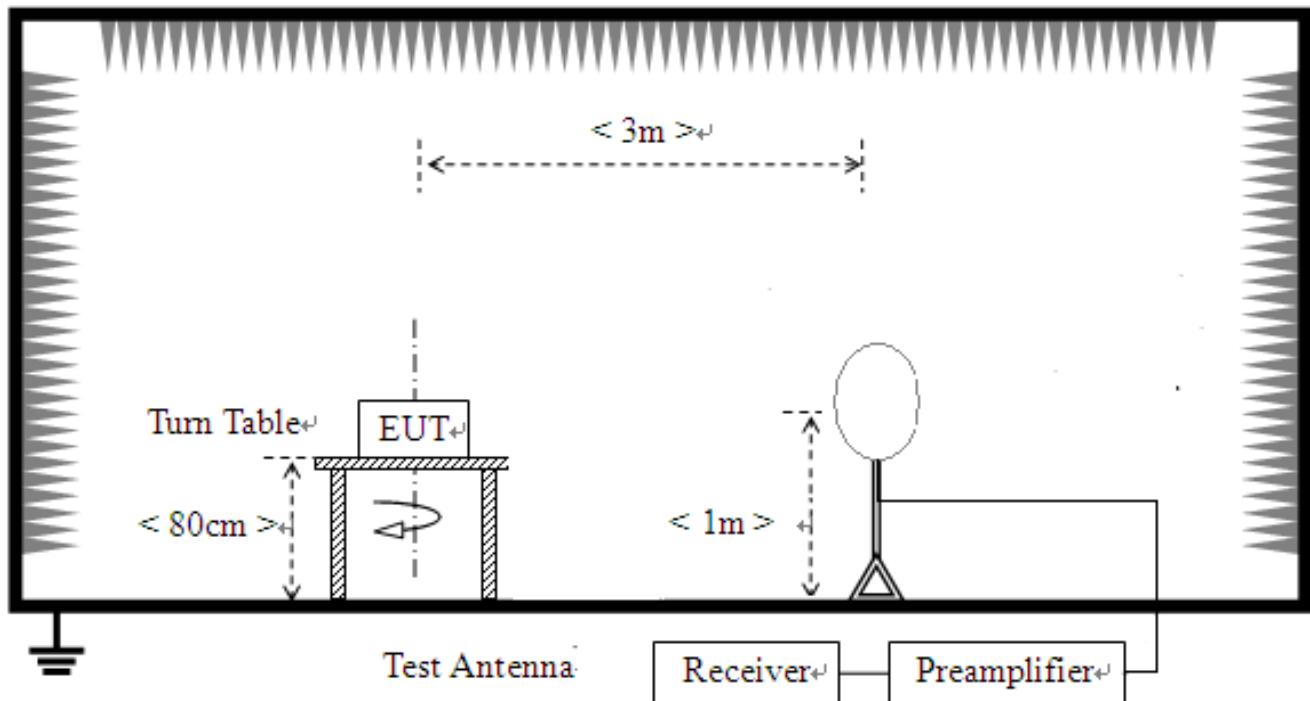
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.9.2 Measuring Instruments

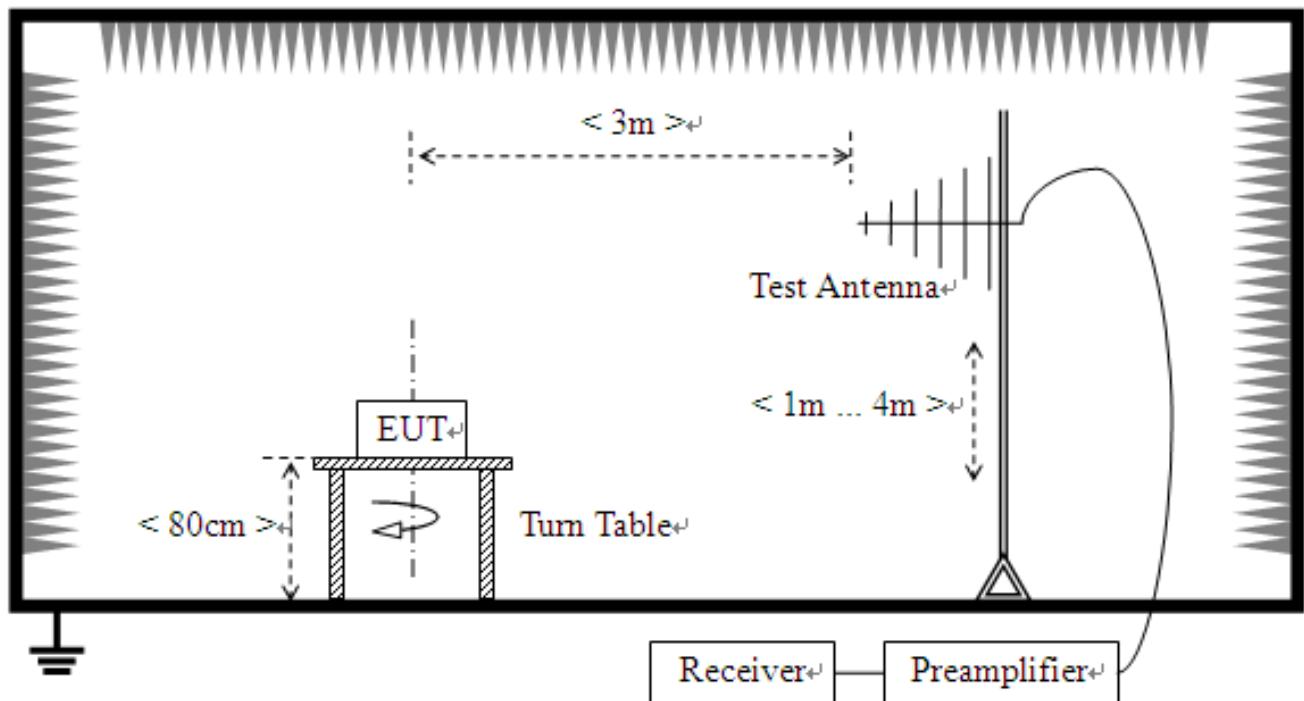
The measuring equipment is listed in the section 3 of this test report.

2.9.3 Test Setup

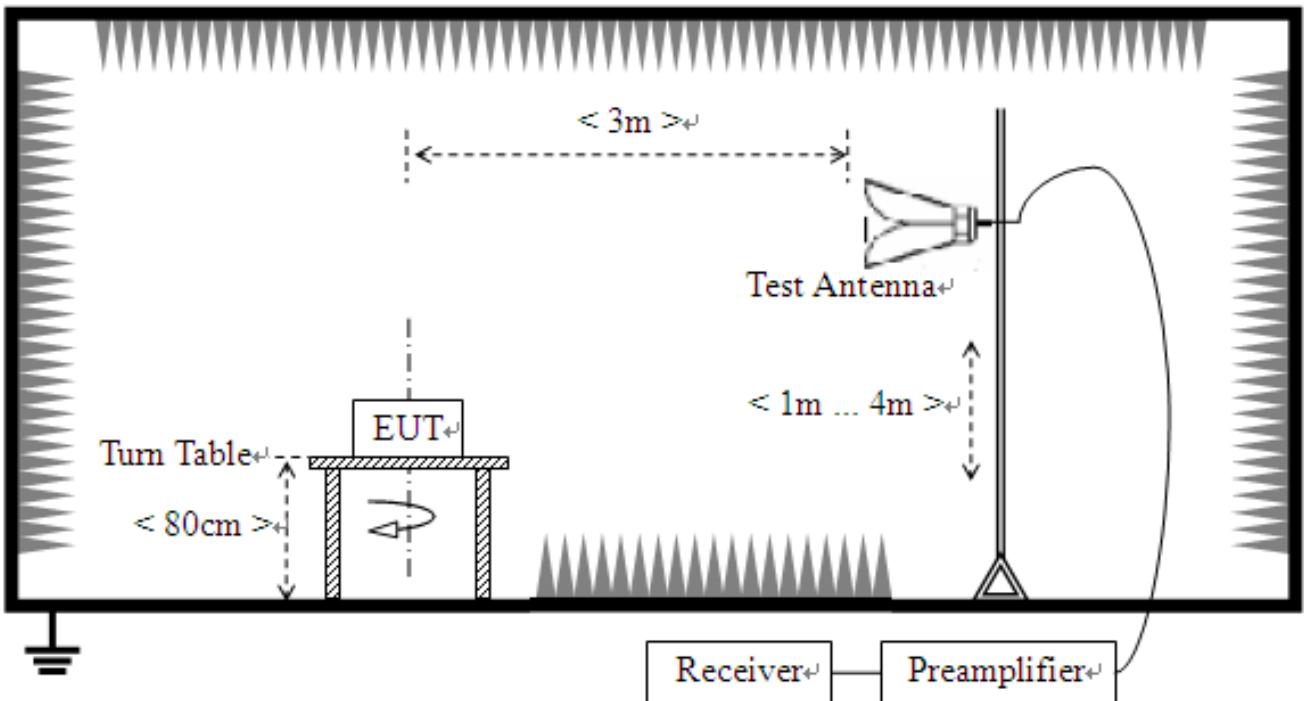
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.9.4 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)
= -13dBm.

<For Band 7/41>

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)
= -25dBm.

<For Band 30>

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [70 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[70 + 10\log(P)]$ (dB)
= -40dBm.

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

2.9.5 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	34.8549	-98.20	-75.93	-13.00	62.93	22.27	Horizontal
2	61.0711	-92.78	-74.16	-13.00	61.16	18.62	Horizontal
3	3216.10	-54.82	-46.09	-13.00	33.09	8.73	Horizontal
4	3967.98	-53.90	-45.19	-13.00	32.19	8.71	Horizontal
5	6510.25	-55.68	-40.73	-13.00	27.73	14.95	Horizontal
6	12711.3	-56.83	-35.79	-13.00	22.79	21.04	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.7387	-97.66	-77.88	-13.00	64.88	19.78	Vertical
2	61.0711	-94.40	-74.93	-13.00	61.93	19.47	Vertical
3	3168.08	-54.29	-45.90	-13.00	32.90	8.39	Vertical
4	3871.93	-54.24	-45.96	-13.00	32.96	8.28	Vertical
5	6348.17	-55.66	-41.51	-13.00	28.51	14.15	Vertical
6	11738.8	-57.31	-38.83	-13.00	25.83	18.48	Vertical



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	34.8549	-97.94	-75.67	-13.00	62.67	22.27	Horizontal
2	62.0420	-94.54	-75.92	-13.00	62.92	18.62	Horizontal
3	3174.08	-54.27	-45.81	-13.00	32.81	8.46	Horizontal
4	3786.39	-53.59	-44.92	-13.00	31.92	8.67	Horizontal
5	6504.25	-54.88	-39.91	-13.00	26.91	14.97	Horizontal
6	13023.5	-57.37	-35.61	-13.00	22.61	21.76	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	64.9550	-93.15	-73.27	-13.00	60.27	19.88	Vertical
2	79.5195	-96.34	-74.88	-13.00	61.88	21.46	Vertical
3	3205.60	-55.13	-46.09	-13.00	33.09	9.04	Vertical
4	4005.50	-54.41	-45.72	-13.00	32.72	8.69	Vertical
5	6306.15	-54.12	-40.10	-13.00	27.10	14.02	Vertical
6	9655.82	-54.13	-38.61	-13.00	25.61	15.52	Vertical

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	65.9259	-92.72	-74.13	-13.00	61.13	18.59	Horizontal
2	498.008	-105.01	-74.43	-13.00	61.43	30.58	Horizontal
3	3210.10	-54.82	-45.97	-13.00	32.97	8.85	Horizontal
4	4014.50	-53.65	-44.80	-13.00	31.80	8.85	Horizontal
5	6510.25	-55.22	-40.27	-13.00	27.27	14.95	Horizontal
6	13995.9	-59.72	-35.89	-13.00	22.89	23.83	Horizontal



Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	62.0420	-94.51	-74.94	-13.00	61.94	19.57	Vertical
2	2389.69	-54.19	-49.85	-13.00	36.85	4.34	Vertical
3	3217.60	-53.56	-44.81	-13.00	31.81	8.75	Vertical
4	4013.00	-54.44	-45.83	-13.00	32.83	8.61	Vertical
5	6720.36	-55.01	-41.21	-13.00	28.21	13.80	Vertical
6	12813.4	-56.98	-37.27	-13.00	24.27	19.71	Vertical

LTE Band 7 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5077.0385	-43.55	-32.90	-25	7.9	10.65	Horizontal
2	7614.8074	-56.70	-39.98	-25	14.98	16.72	Horizontal
3	10154.077	-58.23	-36.23	-25	11.23	22.00	Horizontal
4	12693.346	-59.09	-33.40	-25	8.4	25.69	Horizontal
5	15232.616	-61.96	-31.93	-25	6.93	30.03	Horizontal
6	17771.885	-61.80	-27.57	-25	2.57	34.23	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5077.0385	-47.55	-37.25	-25	12.25	10.30	Vertical
2	7614.8074	-56.65	-40.79	-25	15.79	15.86	Vertical
3	10154.077	-49.71	-28.01	-25	3.01	21.70	Vertical
4	12693.346	-59.01	-32.73	-25	7.73	26.28	Vertical
5	15232.616	-62.44	-32.07	-25	7.07	30.37	Vertical
6	17771.885	-60.34	-26.03	-25	1.03	34.31	Vertical



` 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	62.0420	-92.75	-74.13	-13.00	61.13	18.62	Horizontal
2	1268.13	-52.35	-55.83	-13.00	42.83	-3.48	Horizontal
3	3175.58	-54.26	-45.76	-13.00	32.76	8.50	Horizontal
4	3891.44	-55.07	-46.72	-13.00	33.72	8.35	Horizontal
5	6198.09	-54.76	-40.55	-13.00	27.55	14.21	Horizontal
6	13983.9	-58.23	-34.71	-13.00	21.71	23.52	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	62.0420	-93.99	-74.42	-13.00	61.42	19.57	Vertical
2	80.4905	-94.82	-73.25	-13.00	60.25	21.57	Vertical
3	3166.58	-54.57	-46.22	-13.00	33.22	8.35	Vertical
4	4005.50	-54.13	-45.44	-13.00	32.44	8.69	Vertical
5	6126.06	-55.45	-41.87	-13.00	28.87	13.58	Vertical
6	13227.6	-56.44	-35.95	-13.00	22.95	20.49	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	66.8969	-91.85	-73.26	-13.00	60.26	18.59	Horizontal
2	2246.62	-53.74	-51.56	-13.00	38.56	2.18	Horizontal
3	3243.12	-54.21	-46.02	-13.00	33.02	8.19	Horizontal
4	3991.99	-54.47	-45.61	-13.00	32.61	8.86	Horizontal
5	6852.42	-55.70	-40.89	-13.00	27.89	14.81	Horizontal
6	13353.6	-57.83	-36.50	-13.00	23.50	21.33	Horizontal



Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	61.0711	-93.32	-73.85	-13.00	60.85	19.47	Vertical
2	107.677	-102.58	-79.68	-13.00	66.68	22.90	Vertical
3	2369.68	-54.64	-50.49	-13.00	37.49	4.15	Vertical
4	3199.59	-54.74	-45.57	-13.00	32.57	9.17	Vertical
5	6834.41	-55.02	-41.17	-13.00	28.17	13.85	Vertical
6	13989.9	-58.94	-35.59	-13.00	22.59	23.35	Vertical

LTE Band 25 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.8549	-96.94	-74.67	-13.00	61.67	22.27	Horizontal
2	61.0711	-90.94	-72.32	-13.00	59.32	18.62	Horizontal
3	840.760	-104.45	-69.84	-13.00	56.84	34.61	Horizontal
4	3988.99	-54.36	-45.52	-13.00	32.52	8.84	Horizontal
5	6792.39	-55.48	-40.73	-13.00	27.73	14.75	Horizontal
6	12669.3	-57.15	-36.18	-13.00	23.18	20.97	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.8549	-98.54	-78.23	-13.00	65.23	20.31	Vertical
2	66.8969	-93.43	-73.34	-13.00	60.34	20.09	Vertical
3	3216.10	-54.74	-45.96	-13.00	32.96	8.78	Vertical
4	4178.08	-53.28	-45.87	-13.00	32.87	7.41	Vertical
5	6132.06	-54.63	-41.04	-13.00	28.04	13.59	Vertical
6	13311.6	-57.48	-36.73	-13.00	23.73	20.75	Vertical



LTE Band 26 QPSK 15MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.8549	-96.96	-74.69	-13	-61.69	22.27	Horizontal
2	64.9550	-90.78	-72.18	-13	-59.18	18.60	Horizontal
3	3219.10	-54.07	-45.40	-13	-32.40	8.67	Horizontal
4	4013.00	-53.95	-45.10	-13	-32.10	8.85	Horizontal
5	6366.18	-55.81	-41.24	-13	-28.24	14.57	Horizontal
6	10232.1	-56.89	-40.44	-13	-27.44	16.45	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	63.0130	-94.30	-74.62	-13	-61.62	19.68	Vertical
2	2390.69	-53.59	-49.24	-13	-36.24	4.35	Vertical
3	3177.08	-53.72	-45.11	-13	-32.11	8.61	Vertical
4	4023.51	-54.30	-45.81	-13	-32.81	8.49	Vertical
5	6294.14	-55.06	-41.07	-13	-28.07	13.99	Vertical
6	14086.0	-57.68	-35.81	-13	-22.81	21.87	Vertical

LTE Band 30 QPSK 10MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	504.804	-104.38	-73.75	-40	-33.75	30.63	Horizontal
2	654.334	-103.83	-71.24	-40	-31.24	32.59	Horizontal
3	3223.61	-62.94	-54.36	-40	-14.36	8.58	Horizontal
4	4002.50	-62.66	-53.76	-40	-13.76	8.90	Horizontal
5	6948.47	-65.47	-50.47	-40	-10.47	15.00	Horizontal
6	13005.5	-70.89	-48.96	-40	-8.96	21.93	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	64.9550	-94.19	-74.31	-40	-34.31	19.88	Vertical
2	79.5195	-95.93	-74.47	-40	-34.47	21.46	Vertical
3	3175.58	-63.89	-55.32	-40	-15.32	8.57	Vertical
4	3912.45	-62.86	-54.67	-40	-14.67	8.19	Vertical
5	6342.17	-65.33	-51.2	-40	-11.20	14.13	Vertical
6	12717.3	-70.85	-50.19	-40	-10.19	20.66	Vertical



LTE Band 41 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5186.593	-78.11	-46.34	-25.00	21.34	31.77	Horizont
2	7779.514	-68.16	-36.88	-25.00	11.88	31.28	Horizont
3	10372.81	-69.18	-31.52	--25.00	6.52	37.66	Horizont

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5186.593	-76.62	-43.99	-25.00	18.99	32.63	Vertical
2	7779.514	-69.65	-37.51	-25.00	12.51	32.14	Vertical
3	10372.81	-70.61	-32.77	-25.00	7.77	37.84	Vertical

LTE Band 66 QPSK 20MHz BW Middle Channel

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	34.8549	-97.19	-74.92	-13.00	61.92	22.27	Horizontal
2	66.8969	-94.93	-76.34	-13.00	63.34	18.59	Horizontal
3	3180.09	-54.21	-45.61	-13.00	32.61	8.60	Horizontal
4	3885.44	-54.00	-45.62	-13.00	32.62	8.38	Horizontal
5	6276.13	-55.72	-41.24	-13.00	28.24	14.48	Horizontal
6	12903.4	-57.14	-36.32	-13.00	23.32	20.82	Horizontal

Suspected List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	66.8969	-93.06	-72.97	-13.00	59.97	20.09	Vertical
2	1323.16	-53.33	-56.64	-13.00	43.64	-3.31	Vertical
3	2394.69	-53.53	-49.15	-13.00	36.15	4.38	Vertical
4	3198.09	-54.91	-45.78	-13.00	32.78	9.13	Vertical
5	3994.99	-54.25	-45.53	-13.00	32.53	8.72	Vertical
6	6606.30	-55.01	-40.97	-13.00	27.97	14.04	Vertical



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2018.05.25	2019.05.24	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2018.05.25	2019.05.24	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2018.05.25	2019.05.24	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101341	2018.05.25	2019.05.24	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101339	2018.05.25	2019.05.24	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100150	2018.05.25	2019.05.24	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100148	2018.05.25	2019.05.24	Radiation
Horn antenna (18GHz~26.5GHz)	R&S	HM118	101286	2018.05.25	2019.05.24	Radiation
Horn antenna (18GHz~26.5GHz)	R&S	HM118	101284	2018.05.25	2019.05.24	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2018.05.25	2019.05.24	Radiation
Amplifier 1G~18GHz	R&S	MITEQ AFS42-00101800	25-S-42	2018.05.25	2019.05.24	Radiation
Amplifier 18G~40GHz	R&S	JS42-18002600-2 8-5A	12111.0980.00	2018.05.25	2019.05.24	Radiation
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2017.11.12	2018.11.11	Conducted
LISN	ROHDE&SCH WARZ	ESH2-Z5	A0304221	2018.05.25	2019.05.24	Conducted
Test Receiver	R&S	ESCS30	A0304260	2018.05.25	2019.05.24	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2018.05.25	2019.05.24	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2018.05.25	2019.05.24	Radiation
Temperature chamber	espec	SU-642	93008519	2018.08.24	2019.08.23	Conducted
Wideband Radio Communication tester	R&S	CMW500	149332	2018.05.04	2019.05.03	Conducted
Power Supply	R&S	NGMO1	101037	2018.05.04	2019.05.03	Conducted
Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2018.11.15	2019.11.14	Conducted

APPENDIX A

Conducted RF (Average) Output Power

Test Result and Data

Upper antenna

1. LTE Band 2 Conducted Power Test Verdict

LTE FDD Band 2				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency				
				18607/1850.7	18900/1880	19193/1909.3		
1.4MHz	QPSK	1	0	17.56	17.61	17.42		
		1	3	17.43	17.51	17.3		
		1	5	17.45	17.5	17.29		
		3	0	16.73	16.79	16.57		
		3	2	16.74	16.78	16.54		
		3	3	16.75	16.8	16.55		
		6	0	16.61	16.67	16.44		
	16QAM	1	0	16.43	16.46	16.31		
		1	3	16.28	16.35	16.18		
		1	5	16.41	16.43	16.3		
		3	0	15.5	15.54	15.49		
		3	2	15.58	15.64	15.52		
		3	3	15.6	15.65	15.46		
		6	0	15.48	15.55	15.31		
3MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
						18615/1851.5	18900/1880	19185/1908.5
		1	0	17.78	17.95	17.85		
		1	7	17.65	17.85	17.73		
		1	14	17.67	17.84	17.72		
		8	0	16.95	17.13	17		
		8	4	16.96	17.12	16.97		
	16QAM	8	7	16.97	17.14	16.98		
		15	0	16.83	17.01	16.87		
		1	0	16.65	16.8	16.74		
		1	7	16.5	16.69	16.61		
		1	14	16.63	16.77	16.73		

		8	0	15.72	15.88	15.92
		8	4	15.8	15.98	15.95
		8	7	15.82	15.99	15.89
		15	0	15.7	15.89	15.74
LTE FDD Band 2				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				18625/1852.5	18900/1880	19175/1907.5
5MHz	QPSK	1	0	17.89	18.01	17.79
		1	13	17.76	17.91	17.67
		1	24	17.78	17.9	17.66
		12	0	17.06	17.19	16.94
		12	6	17.07	17.18	16.91
		12	13	17.08	17.2	16.92
		25	0	16.94	17.07	16.81
	16QAM	1	0	16.76	16.86	16.68
		1	13	16.61	16.75	16.55
		1	24	16.74	16.83	16.67
		12	0	15.83	15.94	15.86
		12	6	15.91	16.04	15.89
		12	13	15.93	16.05	15.83
		25	0	15.81	15.95	15.68
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				18650/1855	18900/1880	19150/1905
10MHz	QPSK	1	0	18.23	18.05	18.11
		1	25	18.1	17.95	17.99
		1	49	18.12	17.94	17.98
		25	0	17.4	17.23	17.26
		25	13	17.41	17.22	17.23
		25	25	17.42	17.24	17.24
		50	0	17.28	17.11	17.13
	16QAM	1	0	17.1	16.9	17
		1	25	16.95	16.79	16.87
		1	49	17.08	16.87	16.99
		25	0	16.17	15.98	16.18
		25	13	16.25	16.08	16.21
		25	25	16.27	16.09	16.15
		50	0	16.15	15.99	16

LTE FDD Band 2				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				18675/18575.5	18900/1880	19125/1902.5
15MHz	QPSK	1	0	17.35	17.26	17.15
		1	38	17.22	17.16	17.03
		1	74	17.24	17.15	17.02
		36	0	16.52	16.44	16.3
		36	18	16.53	16.43	16.27
		36	39	16.54	16.45	16.28
		75	0	16.4	16.32	16.17
	16QAM	1	0	16.22	16.11	16.04
		1	38	16.07	16	15.91
		1	74	16.2	16.08	16.03
		36	0	15.29	15.19	15.22
		36	18	15.37	15.29	15.25
		36	39	15.39	15.3	15.19
		75	0	15.27	15.2	15.04
20MHz	QPSK	RB size	RB offset	Channel/Frequency		
				18700/1860	18900/1880	19100/1900
		1	0	18.42	18.50	18.25
		1	50	18.23	18.35	18.15
		1	99	18.25	18.34	18.14
		50	0	17.73	17.68	17.72
		50	25	17.64	17.56	17.66
	16QAM	50	50	17.59	17.78	17.51
		100	0	17.41	17.66	17.38
		1	0	17.23	17.3	17.16
		1	50	17.08	17.19	17.03
		1	99	17.21	17.27	17.15
		50	0	16.3	16.38	16.34
		50	25	16.38	16.48	16.37
		50	50	16.4	16.49	16.31
		100	0	16.28	16.39	16.16

2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency				
				19957/1710.7	20175/1732.5	20393/1754.3		
1.4MHz	QPSK	1	0	17.02	17.25	17.16		
		1	3	16.89	17.15	17.04		
		1	5	16.91	17.14	17.03		
		3	0	16.19	16.43	16.31		
		3	2	16.2	16.42	16.28		
		3	3	16.21	16.44	16.29		
		6	0	16.07	16.31	16.18		
	16QAM	1	0	15.89	16.1	16.05		
		1	3	15.74	15.99	15.92		
		1	5	15.87	16.07	16.04		
		3	0	14.96	15.18	15.23		
		3	2	15.04	15.28	15.26		
		3	3	15.06	15.29	15.2		
		6	0	14.94	15.19	15.05		
3MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
						19965/1711.5	20175/1732.5	20385/1753.5
		1	0	17.12	17.43	17.36		
		1	7	16.99	17.33	17.24		
		1	14	17.01	17.32	17.23		
		8	0	16.29	16.61	16.51		
		8	4	16.3	16.6	16.48		
	16QAM	8	7	16.31	16.62	16.49		
		15	0	16.17	16.49	16.38		
		1	0	15.99	16.28	16.25		
		1	7	15.84	16.17	16.12		
		1	14	15.97	16.25	16.24		
		8	0	15.06	15.36	15.43		
		8	4	15.14	15.46	15.46		

LTE FDD Band 4				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency				
				19975/1712.5	20175/1732.5	20375/1752.5		
5MHz	QPSK	1	0	17.55	17.34	17.46		
		1	13	17.42	17.24	17.34		
		1	24	17.44	17.23	17.33		
		12	0	16.72	16.52	16.61		
		12	6	16.73	16.51	16.58		
		12	13	16.74	16.53	16.59		
		25	0	16.6	16.4	16.48		
	16QAM	1	0	16.42	16.19	16.35		
		1	13	16.27	16.08	16.22		
		1	24	16.4	16.16	16.34		
		12	0	15.49	15.27	15.53		
		12	6	15.57	15.37	15.56		
		12	13	15.59	15.38	15.5		
		25	0	15.47	15.28	15.35		
10MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
						20000/1715	20175/1732.5	20350/1750
		1	0	17.89	17.72	17.85		
		1	25	17.76	17.62	17.73		
		1	49	17.78	17.61	17.72		
		25	0	17.06	16.9	17		
		25	13	17.07	16.89	16.97		
	16QAM	25	25	17.08	16.91	16.98		
		50	0	16.94	16.78	16.87		
		1	0	16.76	16.57	16.74		
		1	25	16.61	16.46	16.61		
		1	49	16.74	16.54	16.73		
		25	0	15.83	15.65	15.92		
		25	13	15.91	15.75	15.95		
		25	25	15.93	15.76	15.89		
		50	0	15.81	15.66	15.74		

LTE FDD Band 4				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency				
				20025/1717.5	20175/1732.5	20325/1747.5		
15MHz	QPSK	1	0	17.78	17.85	17.65		
		1	38	17.65	17.75	17.53		
		1	74	17.67	17.74	17.52		
		36	0	16.95	17.03	16.8		
		36	18	16.96	17.02	16.77		
		36	39	16.97	17.04	16.78		
		75	0	16.83	16.91	16.67		
	16QAM	1	0	16.65	16.7	16.54		
		1	38	16.5	16.59	16.41		
		1	74	16.63	16.67	16.53		
		36	0	15.72	15.78	15.72		
		36	18	15.8	15.88	15.75		
		36	39	15.82	15.89	15.69		
		75	0	15.7	15.79	15.54		
20MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
						20050/1720	20175/1732.5	20300/1745
		1	0	18.15	18.27	18.10		
		1	50	18.13	18.68	18.44		
		1	99	18.15	18.67	18.43		
		50	0	17.21	17.16	17.26		
		50	25	17.27	17.24	17.31		
	16QAM	50	50	17.33	17.28	17.34		
		100	0	17.04	17.1	17.12		
		1	0	17.13	17.63	17.45		
		1	50	16.98	17.52	17.32		
		1	99	17.11	17.6	17.44		
		50	0	16.2	16.71	16.63		
		50	25	16.28	16.81	16.66		
		50	50	16.3	16.82	16.6		
		100	0	16.18	16.72	16.45		

3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				20407/824.7	20525/836.5	20643/848.3
1.4MHz	QPSK	1	0	17.56	17.81	17.65
		1	3	17.43	17.7	17.54
		1	5	17.41	17.66	17.51
		3	0	16.75	16.95	16.79
		3	2	16.71	16.98	16.83
		3	3	16.72	16.97	16.78
		6	0	16.57	16.78	16.68
	16QAM	1	0	16.43	16.69	16.5
		1	3	16.32	16.54	16.39
		1	5	16.41	16.65	16.48
		3	0	15.52	15.77	15.67
		3	2	15.55	15.86	15.73
		3	3	15.61	15.88	15.64
		6	0	15.47	15.7	15.43
3MHz	QPSK	RB size	RB offset	Channel/Frequency		
				20415/825.5	20525/836.5	20635/847.5
		1	0	17.76	17.96	18.01
		1	7	17.61	17.82	17.87
		1	14	17.65	17.83	17.86
		8	0	16.94	17.11	17.18
		8	4	16.95	17.14	17.2
	16QAM	8	7	16.96	17.12	17.13
		15	0	16.78	16.99	17.02
		1	0	16.64	16.83	16.84
		1	7	16.49	16.68	16.69
		1	14	16.61	16.77	16.81
		8	0	15.72	15.89	16.03
		8	4	15.78	16.01	16.12
	8	7	15.83	15.99	16.01	15.77

LTE FDD Band 5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				20425/826.5	20525/836.5	20625/846.5
5MHz	QPSK	1	0	18.23	18.17	18.02
		1	13	18.08	18.02	17.91
		1	24	18.1	18.05	17.87
		12	0	17.41	17.34	17.21
		12	6	17.42	17.33	17.18
		12	13	17.4	17.3	17.17
		25	0	17.26	17.18	17.23
	16QAM	1	0	17.09	17.05	16.86
		1	13	16.96	16.91	16.72
		1	24	17.04	17.03	16.79
		12	0	16.15	16.13	16.01
		12	6	16.28	16.19	16.14
		12	13	16.27	16.22	16
		25	0	16.12	16.11	15.76
10MHz	QPSK	RB size	RB offset	Channel/Frequency		
				20450/829	20525/836.5	20600/844
		1	0	18.65	18.78	18.55
		1	25	18.39	18.6	18.28
		1	49	18.41	18.6	18.32
		25	0	17.46	17.53	17.55
		25	13	17.18	17.32	17.25
	16QAM	25	25	17.03	17.13	16.91
		50	0	17.39	17.27	17.35
		1	0	17.44	17.57	17.28
		1	25	17.33	17.46	17.17
		1	49	17.39	17.49	17.25
		25	0	16.53	16.63	16.44
		25	13	16.58	16.68	16.52
		25	25	16.59	16.71	16.4
		50	0	16.46	16.54	16.18

4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency				
				20775/2502.5	21100/2535	21425/2567.5		
5MHz	QPSK	1	0	18.02	17.56	17.69		
		1	13	17.91	17.41	17.54		
		1	24	17.89	17.43	17.58		
		12	0	17.14	16.71	16.86		
		12	6	17.17	16.75	16.83		
		12	13	17.19	16.73	16.84		
		25	0	17.03	16.53	16.75		
	16QAM	1	0	16.91	16.44	16.53		
		1	13	16.79	16.31	16.42		
		1	24	16.86	16.39	16.52		
		12	0	16	15.46	15.68		
		12	6	16.03	15.6	15.77		
		12	13	16.05	15.55	15.7		
		25	0	15.94	15.4	15.58		
10MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
						20800/2505	21100/2535	21400/2565
		1	0	18.1	17.76	18.01		
		1	25	17.99	17.61	17.86		
		1	49	17.97	17.63	17.9		
		25	0	17.22	16.91	17.18		
		25	13	17.25	16.95	17.15		
	16QAM	25	25	17.27	16.93	17.16		
		50	0	17.11	16.73	17.07		
		1	0	16.99	16.64	16.85		
		1	25	16.87	16.51	16.74		
		1	49	16.94	16.59	16.84		
		25	0	16.08	15.66	16		
		25	13	16.11	15.8	16.09		
		25	25	16.13	15.75	16.02		
		50	0	16.02	15.6	15.9		

LTE FDD Band 7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				20825/2507.5	21100/2535	21375/2562.5
15MHz	QPSK	1	0	18.23	18.02	18.17
		1	38	18.12	17.87	18.02
		1	74	18.1	17.89	18.06
		36	0	17.35	17.17	17.34
		36	18	17.38	17.21	17.31
		36	39	17.4	17.19	17.32
		75	0	17.24	16.99	17.23
	16QAM	1	0	17.12	16.9	17.01
		1	38	17	16.77	16.9
		1	74	17.07	16.85	17
		36	0	16.21	15.92	16.16
		36	18	16.24	16.06	16.25
		36	39	16.26	16.01	16.18
		75	0	16.15	15.86	16.06
20MHz	QPSK	RB size	RB offset	Channel/Frequency		
				20850/2510	21100/2535	21350/2560
		1	0	18.62	18.57	18.43
		1	50	18.51	18.42	18.28
		1	99	18.49	18.44	18.32
		50	0	17.65	17.45	17.6
		50	25	17.77	17.96	17.72
	16QAM	50	50	17.69	17.74	17.58
		100	0	17.63	17.88	17.49
		1	0	17.51	17.45	17.27
		1	50	17.39	17.32	17.16
		1	99	17.46	17.4	17.26
		50	0	16.6	16.47	16.42
		50	25	16.63	16.61	16.51
	50	50	16.65	16.56	16.44	
	100	0	16.54	16.41	16.32	

5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				23017/699.7	23095/707.5	23173/715.3
1.4MHz	QPSK	1	0	17.35	17.52	17.66
		1	3	17.23	17.4	17.54
		1	5	17.24	17.41	17.53
		3	0	16.5	16.7	16.84
		3	2	16.53	16.67	16.82
		3	3	16.47	16.71	16.83
		6	0	16.37	16.57	16.69
	16QAM	1	0	16.22	16.37	16.54
		1	3	16.11	16.26	16.41
		1	5	16.2	16.34	16.49
		3	0	15.27	15.42	15.7
		3	2	15.39	15.55	15.81
		3	3	15.38	15.52	15.73
		6	0	15.2	15.39	15.51
3MHz	QPSK	RB size	RB offset	Channel/Frequency		
				23025/700.5	23095/707.5	23165/714.5
		1	0	17.45	17.64	17.75
		1	7	17.33	17.52	17.63
		1	14	17.34	17.53	17.62
		8	0	16.6	16.82	16.93
		8	4	16.63	16.79	16.91
	16QAM	8	7	16.57	16.83	16.92
		15	0	16.47	16.69	16.78
		1	0	16.32	16.49	16.63
		1	7	16.21	16.38	16.5
		1	14	16.3	16.46	16.58
		8	0	15.37	15.54	15.79
		8	4	15.49	15.67	15.9
	8	7	15.48	15.64	15.82	
	15	0	15.3	15.51	15.6	

LTE FDD Band 12				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				23035/701.5	23095/707.5	23155/713.5
5MHz	QPSK	1	0	17.89	17.96	17.91
		1	13	17.77	17.84	17.79
		1	24	17.78	17.85	17.78
		12	0	17.04	17.14	17.09
		12	6	17.07	17.11	17.07
		12	13	17.01	17.15	17.08
		25	0	16.91	17.01	16.94
	16QAM	1	0	16.76	16.81	16.79
		1	13	16.65	16.7	16.66
		1	24	16.74	16.78	16.74
		12	0	15.81	15.86	15.95
		12	6	15.93	15.99	16.06
		12	13	15.92	15.96	15.98
		25	0	15.74	15.83	15.76
10MHz	QPSK	RB size	RB offset	Channel/Frequency		
				23060/704	23095/707.5	23130/711
		1	0	18.10	18.15	18.05
		1	25	17.93	18	17.89
		1	49	17.94	18.01	17.88
		25	0	17.2	17.05	17.23
		25	13	17.1	16.81	17.15
	16QAM	25	25	17.16	17.27	17.24
		50	0	17.07	16.92	17.11
		1	0	16.92	16.97	16.89
		1	25	16.81	16.86	16.76
		1	49	16.9	16.94	16.84
		25	0	15.97	16.02	16.05
		25	13	16.09	16.15	16.16
		25	25	16.08	16.12	16.08
		50	0	15.9	15.99	15.86

6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				23755/706.5	23790/710	23825/713.5
5MHz	QPSK	1	0	18.02	18.13	17.88
		1	13	17.91	18	17.74
		1	24	17.87	18.01	17.73
		12	0	17.37	17.47	17.05
		12	6	17.14	17.28	17
		12	13	17.18	17.31	17.07
		25	0	17.2	17.34	16.88
	16QAM	1	0	16.9	17	16.74
		1	13	16.79	16.85	16.59
		1	24	16.89	16.97	16.71
		12	0	15.99	16.05	15.89
		12	6	16.02	16.18	15.96
		12	13	16.04	16.16	15.85
		25	0	15.9	16.04	15.73
10MHz	QPSK	RB size	RB offset	Channel/Frequency		
				23780/709	23790/710	23800/711
		1	0	18.08	18.21	18.02
		1	25	18	18.15	17.83
		1	49	17.98	18.02	17.81
		25	0	17.24	17.32	17.27
		25	13	16.97	16.95	17.15
	16QAM	25	25	16.72	16.72	17.24
		50	0	16.19	16.64	17.29
		1	0	16.99	17	16.85
		1	25	16.85	16.89	16.69
		1	49	16.97	16.98	16.8
		25	0	16.05	16.05	16
		25	13	16.16	15.97	16.11
		25	25	16.17	16.07	16.03
		50	0	16.06	15.17	15.8

7. LTE Band 25 Conducted Power Test Verdict:

LTE FDD Band 25				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				26047/1850.7	26365/1882.5	26683/1914.3
1.4MHz	QPSK	1	0	17.68	17.84	17.93
		1	3	17.53	17.71	17.78
		1	5	17.5	17.69	17.74
		3	0	16.85	17	17.08
		3	2	16.8	17.01	17.04
		3	3	16.79	17.02	17.05
		6	0	16.74	16.85	16.94
	16QAM	1	0	16.56	16.67	16.8
		1	3	16.41	16.54	16.67
		1	5	16.51	16.62	16.72
		3	0	15.6	15.74	15.99
		3	2	15.71	15.63	16.04
		3	3	15.69	15.69	15.95
		6	0	15.56	14.82	15.71
3MHz	QPSK	RB size	RB offset	Channel/Frequency		
				26055/1851.5	26365/1882.5	26675/1913.5
		1	0	17.78	18.02	18.09
		1	7	17.63	17.89	17.94
		1	14	17.6	17.87	17.9
		8	0	16.95	17.18	17.24
		8	4	16.9	17.19	17.2
	16QAM	8	7	16.89	17.2	17.21
		15	0	16.84	17.03	17.1
		1	0	16.66	16.85	16.96
		1	7	16.51	16.72	16.83
		1	14	16.61	16.8	16.88
		8	0	15.7	15.92	16.15
		8	4	15.81	15.81	16.2

LTE FDD Band 25				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency				
				26065/1852.5	26365/1882.5	26665/1912.5		
5MHz	QPSK	1	0	18.02	18.11	18.16		
		1	13	17.87	17.99	18.05		
		1	24	17.83	17.96	18.04		
		12	0	17.17	17.25	17.33		
		12	6	17.11	17.24	17.21		
		12	13	17.09	17.25	17.21		
		25	0	17.04	17.07	17.2		
	16QAM	1	0	16.87	16.97	17.02		
		1	13	16.69	16.86	16.87		
		1	24	16.83	16.92	16.94		
		12	0	15.91	16.04	16.19		
		12	6	16.02	15.98	16.31		
		12	13	16.04	15.99	16.17		
		25	0	15.9	15.19	15.88		
10MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
						26090/1855	26365/1882.5	26640/1910
		1	0	18.12	18.25	18.26		
		1	25	18	18.1	18.13		
		1	49	17.98	18.12	18.11		
		25	0	17.31	17.4	17.42		
		25	13	17.27	17.44	17.35		
	16QAM	25	25	17.26	17.41	17.34		
		50	0	17.19	17.28	17.3		
		1	0	16.99	17.1	17.15		
		1	25	16.85	16.99	16.99		
		1	49	16.97	17.08	17.1		
		25	0	16.05	16.15	16.3		
		25	13	16.16	16.07	16.41		
		25	25	16.17	16.17	16.33		
		50	0	16.06	15.27	16.1		

LTE FDD Band 25				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				26115/1857.5	26365/1882.5	26615/1907.5
15MHz	QPSK	1	0	18.27	18.32	18.33
		1	38	18.12	18.2	18.22
		1	74	18.08	18.17	18.21
		36	0	17.42	17.46	17.5
		36	18	17.36	17.45	17.38
		36	39	17.34	17.46	17.38
		75	0	17.29	17.28	17.37
	16QAM	1	0	17.12	17.18	17.19
		1	38	16.94	17.07	17.04
		1	74	17.08	17.13	17.11
		36	0	16.16	16.25	16.36
		36	18	16.27	16.19	16.48
		36	39	16.29	16.2	16.34
		75	0	16.15	15.4	16.05
20MHz	QPSK	RB size	RB offset	Channel/Frequency		
				26140/1860	26365/1882.5	26590/1905
		1	0	18.42	18.59	18.43
		1	50	18.2	18.27	18.26
		1	99	18.16	18.24	18.25
		50	0	17.57	17.73	17.60
		50	25	17.44	17.52	17.42
	16QAM	50	50	17.42	17.23	17.35
		100	0	17.37	17.31	17.41
		1	0	16.2	17.25	17.23
		1	50	16.02	17.14	17.08
		1	99	16.16	17.2	17.15
		50	0	15.24	16.32	16.4
		50	25	15.35	16.26	16.52
	50	50	15.37	16.27	16.38	
	100	0	15.23	15.47	16.09	

8. LTE Band 26 Conducted Power Test Verdict

LTE FDD Band 26				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				26697/814.7	26865/831.5	27033/848.3
1.4MHz	QPSK	1	0	17.75	17.89	17.79
		1	3	17.6	17.76	17.64
		1	5	17.57	17.74	17.6
		3	0	16.92	17.05	16.94
		3	2	16.87	17.06	16.9
		3	3	16.86	17.07	16.91
		6	0	16.81	16.9	16.8
	16QAM	1	0	16.63	16.72	16.66
		1	3	16.48	16.59	16.53
		1	5	16.58	16.67	16.58
		3	0	15.67	15.79	15.85
		3	2	15.78	15.68	15.9
		3	3	15.76	15.74	15.81
		6	0	15.63	14.87	15.57
3MHz	QPSK	RB size	RB offset	Channel/Frequency		
				26705/815.5	26865/831.5	27025/847.5
		1	0	18	18.12	18.05
		1	7	17.85	18	17.94
		1	14	17.81	17.97	17.93
		8	0	17.15	17.26	17.22
		8	4	17.09	17.25	17.1
	16QAM	8	7	17.07	17.26	17.1
		15	0	17.02	17.08	17.09
		1	0	16.85	16.98	16.91
		1	7	16.67	16.87	16.76
		1	14	16.81	16.93	16.83
		8	0	15.89	16.05	16.08
		8	4	16	15.99	16.2
	8	7	16.02	16	16.06	
	15	0	15.88	15.2	15.77	

LTE FDD Band 26				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				26715/816.5	26865/831.5	27015/846.5
5MHz	QPSK	1	0	18.13	18.25	18.24
		1	13	17.98	18.13	18.13
		1	24	17.94	18.1	18.12
		12	0	17.28	17.39	17.41
		12	6	17.22	17.38	17.29
		12	13	17.2	17.39	17.29
		25	0	17.15	17.21	17.28
	16QAM	1	0	16.98	17.11	17.1
		1	13	16.8	17	16.95
		1	24	16.94	17.06	17.02
		12	0	16.02	16.18	16.27
		12	6	16.13	16.12	16.39
		12	13	16.15	16.13	16.25
		25	0	16.01	15.33	15.96
10MHz	QPSK	RB size	RB offset	Channel/Frequency		
				26740/819	26865/831.5	26990/844
		1	0	18.25	18.34	18.35
		1	25	18.1	18.22	18.24
		1	49	18.06	18.19	18.23
		25	0	17.4	17.48	17.52
		25	13	17.34	17.47	17.4
	16QAM	25	25	17.32	17.48	17.4
		50	0	17.27	17.3	17.39
		1	0	17.1	17.2	17.21
		1	25	16.92	17.09	17.06
		1	49	17.06	17.15	17.13
		25	0	16.14	16.27	16.38
		25	13	16.25	16.21	16.5
		25	25	16.27	16.22	16.36
		50	0	16.13	15.42	16.07

LTE FDD Band 26				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				26765/821.5	26865/831.52	26965/841.5
15MHz	QPSK	1	0	18.42	18.63	18.46
		1	38	18.2	18.3	18.29
		1	74	18.16	18.27	18.28
		36	0	17.57	17.79	17.63
		36	18	17.44	17.55	17.45
		36	39	17.42	17.56	17.45
		75	0	17.37	17.38	17.44
	16QAM	1	0	17.2	17.28	17.26
		1	38	17.02	17.17	17.11
		1	74	17.16	17.23	17.18
		36	0	16.24	16.35	16.43
		36	18	16.35	16.29	16.55
		36	39	16.37	16.3	16.41
		75	0	16.23	15.5	16.12

9. LTE Band 30 Conducted Power Test Verdict

LTE FDD Band 30				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				27685/2307.5	27710/2310	27735/2312.5
5MHz	QPSK	1	0	17.56	17.63	17.52
		1	13	17.44	17.51	17.4
		1	24	17.45	17.52	17.39
		12	0	16.71	16.81	16.7
		12	6	16.74	16.78	16.68
		12	13	16.68	16.82	16.69
		25	0	16.58	16.68	16.55
	16QAM	1	0	16.43	16.48	16.4
		1	13	16.32	16.37	16.27
		1	24	16.41	16.45	16.35
		12	0	15.48	15.53	15.56
		12	6	15.6	15.66	15.67
		12	13	15.59	15.63	15.59
		25	0	15.41	15.5	15.37
10MHz	QPSK	RB size	RB offset	Channel/Frequency		
				27710/2310	27710/2310	27710/2310
		1	0	17.69	17.69	17.69
		1	25	17.57	17.57	17.57
		1	49	17.58	17.58	17.58
		25	0	16.27	16.27	16.27
		25	13	16.16	16.16	16.16
	16QAM	25	25	16.04	16.04	16.04
		50	0	16.14	16.14	16.14
		1	0	16.54	16.54	16.54
		1	25	16.43	16.43	16.43
		1	49	16.51	16.51	16.51
		25	0	15.59	15.59	15.59
		25	13	15.72	15.72	15.72
		25	25	15.69	15.69	15.69
		50	0	15.56	15.56	15.56

10. LTE Band 41 Conducted Power Test Verdict

LTE TDD Band 41				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				39675/2498.5	40620/2593	41565/2687.5
5MHz	QPSK	1	0	18.02	18.09	17.85
		1	13	17.87	17.97	17.74
		1	24	17.83	17.94	17.73
		12	0	17.17	17.23	17.02
		12	6	17.11	17.22	16.9
		12	13	17.09	17.23	16.9
		25	0	17.04	17.05	16.89
	16QAM	1	0	16.87	16.95	16.71
		1	13	16.69	16.84	16.56
		1	24	16.83	16.9	16.63
		12	0	15.91	16.02	15.88
		12	6	16.02	15.96	16
		12	13	16.04	15.97	15.86
		25	0	15.9	15.17	15.57
10MHz	QPSK	RB size	RB offset	Channel/Frequency		
				39700/2501	40620/2593	41540/2685
		1	0	18.08	18.13	17.96
		1	25	17.93	18.01	17.85
		1	49	17.89	17.98	17.84
		25	0	17.23	17.27	17.13
		25	13	17.17	17.26	17.01
	16QAM	25	25	17.15	17.27	17.01
		50	0	17.1	17.09	17
		1	0	16.93	16.99	16.82
		1	25	16.75	16.88	16.67
		1	49	16.89	16.94	16.74
		25	0	15.97	16.06	15.99
		25	13	16.08	16	16.11
		25	25	16.1	16.01	15.97
		50	0	15.96	15.21	15.68

LTE TDD Band 41				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				39725/2503.5	40620/2593	41515/2682.5
15MHz	QPSK	1	0	18.12	18.17	18.02
		1	38	17.97	18.05	17.91
		1	74	17.93	18.02	17.9
		36	0	17.27	17.31	17.19
		36	18	17.21	17.3	17.07
		36	39	17.19	17.31	17.07
		75	0	17.14	17.13	17.06
	16QAM	1	0	16.97	17.03	16.88
		1	38	16.79	16.92	16.73
		1	74	16.93	16.98	16.8
		36	0	16.01	16.1	16.05
		36	18	16.12	16.04	16.17
		36	39	16.14	16.05	16.03
		75	0	16	15.25	15.74
20MHz	QPSK	RB size	RB offset	Channel/Frequency		
				39750/2506	40620/2593	41490/2680
		1	0	18.18	18.25	18.16
		1	50	18	18.09	17.95
		1	99	17.96	18.06	17.94
		50	0	17.33	17.39	17.33
		50	25	17.24	17.34	17.11
	16QAM	50	50	17.22	17.35	17.11
		100	0	17.17	17.17	17.1
		1	0	17	17.07	16.92
		1	50	16.82	16.96	16.77
		1	99	16.96	17.02	16.84
		50	0	16.04	16.14	16.09
		50	25	16.15	16.08	16.21
	50	50	16.17	16.09	16.07	
	100	0	16.03	15.29	15.78	

11. LTE Band 66 Conducted Power Test Verdict

LTE FDD Band 66				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				131979/1710.7	132322/1745	132665/1779.3
1.4MHz	QPSK	1	0	17.75	17.67	17.45
		1	3	17.62	17.57	17.33
		1	5	17.64	17.56	17.32
		3	0	16.92	16.85	16.6
		3	2	16.93	16.84	16.57
		3	3	16.94	16.86	16.58
		6	0	16.8	16.73	16.47
	16QAM	1	0	16.62	16.52	16.34
		1	3	16.47	16.41	16.21
		1	5	16.6	16.49	16.33
		3	0	15.69	15.6	15.52
		3	2	15.77	15.7	15.55
		3	3	15.79	15.71	15.49
		6	0	15.67	15.61	15.34
3MHz	QPSK	RB size	RB offset	Channel/Frequency		
				131987/1711.5	12322/1745	132657/1778.5
		1	0	17.79	17.85	17.66
		1	7	17.66	17.75	17.54
		1	14	17.68	17.74	17.53
		8	0	16.96	17.03	16.81
		8	4	16.97	17.02	16.78
	16QAM	8	7	16.98	17.04	16.79
		15	0	16.84	16.91	16.68
		1	0	16.66	16.7	16.55
		1	7	16.51	16.59	16.42
		1	14	16.64	16.67	16.54
		8	0	15.73	15.78	15.73
		8	4	15.81	15.88	15.76
	8	7	15.83	15.89	15.7	
	15	0	15.71	15.79	15.55	

LTE FDD Band 66				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				131997/1712.5	132322/1745	132647/1777.5
5MHz	QPSK	1	0	18.02	18.16	18.07
		1	13	17.89	18.06	17.95
		1	24	17.91	18.05	17.94
		12	0	17.19	17.34	17.22
		12	6	17.2	17.33	17.19
		12	13	17.21	17.35	17.2
		25	0	17.07	17.22	17.09
	16QAM	1	0	16.89	17.01	16.96
		1	13	16.74	16.9	16.83
		1	24	16.87	16.98	16.95
		12	0	15.96	16.09	16.14
		12	6	16.04	16.19	16.17
		12	13	16.06	16.2	16.11
		25	0	15.94	16.1	15.96
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				132022/1715	132322/1745	132622/1775
10MHz	QPSK	1	0	18.15	18.24	18.13
		1	25	18.02	18.14	18.01
		1	49	18.04	18.13	18
		25	0	17.32	17.42	17.28
		25	13	17.33	17.41	17.25
		25	25	17.34	17.43	17.26
		50	0	17.2	17.3	17.15
	16QAM	1	0	17.02	17.09	17.02
		1	25	16.87	16.98	16.89
		1	49	17	17.06	17.01
		25	0	16.09	16.17	16.2
		25	13	16.17	16.27	16.23
		25	25	16.19	16.28	16.17
		50	0	16.07	16.18	16.02

LTE FDD Band 66				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				132047/1717.5	132322/1745	132597/1772.5
15MHz	QPSK	1	0	18.21	18.28	18.21
		1	38	18.08	18.18	18.09
		1	74	18.1	18.17	18.08
		36	0	17.38	17.46	17.36
		36	18	17.39	17.45	17.33
		36	39	17.4	17.47	17.34
		75	0	17.26	17.34	17.23
	16QAM	1	0	17.08	17.13	17.1
		1	38	16.93	17.02	16.97
		1	74	17.06	17.1	17.09
		36	0	16.15	16.21	16.28
		36	18	16.23	16.31	16.31
		36	39	16.25	16.32	16.25
		75	0	16.13	16.22	16.1
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency		
				132072/1720	132322/1745	132572/1770
20MHz	QPSK	1	0	18.31	18.42	18.27
		1	50	18.12	18.25	18.12
		1	99	18.14	18.24	18.11
		50	0	17.48	17.60	17.42
		50	25	17.43	17.52	17.36
		50	50	17.44	17.54	17.37
		100	0	17.3	17.41	17.26
	16QAM	1	0	17.12	17.2	17.13
		1	50	16.97	17.09	17
		1	99	17.1	17.17	17.12
		50	0	16.19	16.28	16.31
		50	25	16.27	16.38	16.34
		50	50	16.29	16.39	16.28
		100	0	16.17	16.29	16.13

Primary antenna

1. LTE Band 2 Conducted Power Test Verdict:

LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				18607	18900	19193	
1.4MHz	QPSK	1	0	22.68	22.81	22.75	
		1	3	22.55	22.71	22.63	
		1	5	22.57	22.7	22.62	
		3	0	21.85	21.99	21.9	
		3	2	21.86	21.98	21.87	
		3	3	21.87	22	21.88	
		6	0	21.73	21.87	21.77	
	16QAM	1	0	21.55	21.66	21.64	
		1	3	21.4	21.55	21.51	
		1	5	21.53	21.63	21.63	
		3	0	20.62	20.74	20.82	
		3	2	20.7	20.84	20.85	
		3	3	20.72	20.85	20.79	
		6	0	20.6	20.75	20.64	
Bandwidth		Modulation	RB size	RB offset	Channel	Channel	
					18615	18900	
3MHz	QPSK	1	0	22.74	22.91	22.78	
		1	7	22.61	22.81	22.66	
		1	14	22.63	22.8	22.65	
		8	0	21.91	22.09	21.93	
		8	4	21.92	22.08	21.9	
		8	7	21.93	22.1	21.91	
		15	0	21.79	21.97	21.8	
	16QAM	1	0	21.61	21.76	21.67	
		1	7	21.46	21.65	21.54	
		1	14	21.59	21.73	21.66	
		8	0	20.68	20.84	20.85	
		8	4	20.76	20.94	20.88	
		8	7	20.78	20.95	20.82	
		15	0	20.66	20.85	20.67	

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	22.93	22.95	22.92
		1	13	22.8	22.85	22.8
		1	24	22.82	22.84	22.79
		12	0	22.1	22.13	22.07
		12	6	22.11	22.12	22.04
		12	13	22.12	22.14	22.05
		25	0	21.98	22.01	21.94
	16QAM	1	0	21.8	21.8	21.81
		1	13	21.65	21.69	21.68
		1	24	21.78	21.77	21.8
		12	0	20.87	20.88	20.99
		12	6	20.95	20.98	21.02
		12	13	20.97	20.99	20.96
		25	0	20.85	20.89	20.81
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	23.05	23.11	23.02
		1	25	22.92	23.01	22.9
		1	49	22.94	23	22.89
		25	0	22.22	22.29	22.17
		25	13	22.23	22.28	22.14
		25	25	22.24	22.3	22.15
		50	0	22.1	22.17	22.04
	16QAM	1	0	21.92	21.96	21.91
		1	25	21.77	21.85	21.78
		1	49	21.9	21.93	21.9
		25	0	20.99	21.04	21.09
		25	13	21.07	21.14	21.12
		25	25	21.09	21.15	21.06
		50	0	20.97	21.05	20.91

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	23.13	23.28	23.16
		1	38	23	23.18	23.04
		1	74	23.02	23.17	23.03
		36	0	22.3	22.46	22.31
		36	18	22.31	22.45	22.28
		36	39	22.32	22.47	22.29
		75	0	22.18	22.34	22.18
	16QAM	1	0	22	22.13	22.05
		1	38	21.85	22.02	21.92
		1	74	21.98	22.1	22.04
		36	0	21.07	21.21	21.23
		36	18	21.15	21.31	21.26
		36	39	21.17	21.32	21.2
		75	0	21.05	21.22	21.05
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0	23.36	23.42	23.12
		1	50	23.23	23.32	23
		1	99	23.25	23.31	22.99
		50	0	22.53	22.6	22.27
		50	25	22.54	22.59	22.24
		50	50	22.55	22.61	22.25
		100	0	22.41	22.48	22.14
	16QAM	1	0	22.23	22.27	22.01
		1	50	22.08	22.16	21.88
		1	99	22.21	22.24	22
		50	0	21.3	21.35	21.19
		50	25	21.38	21.45	21.22
		50	50	21.4	21.46	21.16
		100	0	21.28	21.36	21.01

2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	22.55	22.63	22.46
		1	3	22.42	22.53	22.34
		1	5	22.44	22.52	22.33
		3	0	21.72	21.81	21.61
		3	2	21.73	21.8	21.58
		3	3	21.74	21.82	21.59
		6	0	21.6	21.69	21.48
	16QAM	1	0	21.42	21.48	21.35
		1	3	21.27	21.37	21.22
		1	5	21.4	21.45	21.34
		3	0	20.49	20.56	20.53
		3	2	20.57	20.66	20.56
		3	3	20.59	20.67	20.5
		6	0	20.47	20.57	20.35
3MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
		1	0	22.65	22.76	22.65
		1	7	22.52	22.66	22.53
		1	14	22.54	22.65	22.52
		8	0	21.82	21.94	21.8
		8	4	21.83	21.93	21.77
		8	7	21.84	21.95	21.78
	16QAM	15	0	21.7	21.82	21.67
		1	0	21.52	21.61	21.54
		1	7	21.37	21.5	21.41
		1	14	21.5	21.58	21.53
		8	0	20.59	20.69	20.72
		8	4	20.67	20.79	20.75
		8	7	20.69	20.8	20.69
		15	0	20.57	20.7	20.54

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	22.75	22.78	22.71
		1	13	22.62	22.68	22.59
		1	24	22.64	22.67	22.58
		12	0	21.92	21.96	21.86
		12	6	21.93	21.95	21.83
		12	13	21.94	21.97	21.84
		25	0	21.8	21.84	21.73
	16QAM	1	0	21.62	21.63	21.6
		1	13	21.47	21.52	21.47
		1	24	21.6	21.6	21.59
		12	0	20.69	20.71	20.78
		12	6	20.77	20.81	20.81
		12	13	20.79	20.82	20.75
		25	0	20.67	20.72	20.6
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0	22.85	22.91	22.81
		1	25	22.72	22.81	22.69
		1	49	22.74	22.8	22.68
		25	0	22.02	22.09	21.96
		25	13	22.03	22.08	21.93
		25	25	22.04	22.1	21.94
		50	0	21.9	21.97	21.83
	16QAM	1	0	21.72	21.76	21.7
		1	25	21.57	21.65	21.57
		1	49	21.7	21.73	21.69
		25	0	20.79	20.84	20.88
		25	13	20.87	20.94	20.91
		25	25	20.89	20.95	20.85
		50	0	20.77	20.85	20.7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0	23.05	23.12	23.05
		1	38	22.92	23.02	22.93
		1	74	22.94	23.01	22.92
		36	0	22.22	22.3	22.2
		36	18	22.23	22.29	22.17
		36	39	22.24	22.31	22.18
		75	0	22.1	22.18	22.07
	16QAM	1	0	21.92	21.97	21.94
		1	38	21.77	21.86	21.81
		1	74	21.9	21.94	21.93
		36	0	20.99	21.05	21.12
		36	18	21.07	21.15	21.15
		36	39	21.09	21.16	21.09
		75	0	20.97	21.06	20.94
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	23.12	23.24	23.08
		1	50	22.99	23.14	22.96
		1	99	23.01	23.13	22.95
		50	0	21.33	21.28	21.34
		50	25	21.25	21.18	21.11
		50	50	21.21	21.03	21.08
		100	0	21.21	21.16	21.21
	16QAM	1	0	21.99	22.09	21.97
		1	50	21.84	21.98	21.84
		1	99	21.97	22.06	21.96
		50	0	21.06	21.17	21.15
		50	25	21.14	21.27	21.18
		50	50	21.16	21.28	21.12
		100	0	21.04	21.18	20.97

3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	23.12	23.28	23.01
		1	3	22.99	23.17	22.9
		1	5	22.97	23.13	22.87
		3	0	22.31	22.42	22.15
		3	2	22.27	22.45	22.19
		3	3	22.28	22.44	22.14
		6	0	22.13	22.25	22.04
	16QAM	1	0	21.99	22.16	21.86
		1	3	21.88	22.01	21.75
		1	5	21.97	22.12	21.84
		3	0	21.08	21.24	21.03
		3	2	21.11	21.33	21.09
		3	3	21.17	21.35	21
		6	0	21.03	21.17	20.79
3MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
		1	0	23.15	23.22	23.13
		1	7	23	23.08	22.99
		1	14	23.04	23.09	22.98
		8	0	22.33	22.37	22.3
		8	4	22.34	22.4	22.32
	16QAM	8	7	22.35	22.38	22.25
		15	0	22.17	22.25	22.14
		1	0	22.03	22.09	21.96
		1	7	21.88	21.94	21.81
		1	14	22	22.03	21.93
		8	0	21.11	21.15	21.15
		8	4	21.17	21.27	21.24
	8	7	21.22	21.25	21.13	
	15	0	21.07	21.09	20.89	

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	23.28	23.46	23.43
		1	13	23.13	23.31	23.32
		1	24	23.15	23.34	23.28
		12	0	22.46	22.63	22.62
		12	6	22.47	22.62	22.59
		12	13	22.45	22.59	22.58
		25	0	22.31	22.47	22.433
	16QAM	1	0	22.14	22.34	22.27
		1	13	22.01	22.2	22.13
		1	24	22.09	22.32	22.2
		12	0	21.2	21.42	21.42
		12	6	21.33	21.48	21.55
		12	13	21.32	21.51	21.41
		25	0	21.17	21.4	21.17
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0	23.56	23.71	23.51
		1	25	23.38	23.59	23.36
		1	49	23.4	23.59	23.4
		25	0	21.46	21.53	21.55
		25	13	21.08	21.33	21.43
		25	25	21.25	21.14	21.15
		50	0	21.33	21.4	21.37
	16QAM	1	0	22.43	22.56	22.36
		1	25	22.32	22.45	22.25
		1	49	22.38	22.48	22.33
		25	0	21.52	21.62	21.52
		25	13	21.57	21.67	21.6
		25	25	21.58	21.7	21.48
		50	0	21.45	21.53	21.26

4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	23.12	23.18	23.05
		1	13	23.01	23.03	22.9
		1	24	22.99	23.05	22.94
		12	0	22.24	22.33	22.22
		12	6	22.27	22.37	22.19
		12	13	22.29	22.35	22.2
		25	0	22.13	22.15	22.11
	16QAM	1	0	22.01	22.06	21.89
		1	13	21.89	21.93	21.78
		1	24	21.96	22.01	21.88
		12	0	21.1	21.08	21.04
		12	6	21.13	21.22	21.13
		12	13	21.15	21.17	21.06
		25	0	21.04	21.02	20.94
10MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel
						20800
		1	0	23.18	23.31	23.05
		1	25	23.07	23.16	22.9
		1	49	23.05	23.18	22.94
		25	0	22.3	22.46	22.22
		25	13	22.33	22.5	22.19
	16QAM	25	25	22.35	22.48	22.2
		50	0	22.19	22.28	22.11
		1	0	22.07	22.19	21.89
		1	25	21.95	22.06	21.78
		1	49	22.02	22.14	21.88
		25	0	21.16	21.21	21.04
		25	13	21.19	21.35	21.13
		25	25	21.21	21.3	21.06
		50	0	21.1	21.15	20.94

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	23.45	23.51	23.36
		1	38	23.34	23.36	23.21
		1	74	23.32	23.38	23.25
		36	0	22.57	22.66	22.53
		36	18	22.6	22.7	22.5
		36	39	22.62	22.68	22.51
		75	0	22.46	22.48	22.42
	16QAM	1	0	22.34	22.39	22.2
		1	38	22.22	22.26	22.09
		1	74	22.29	22.34	22.19
		36	0	21.43	21.41	21.35
		36	18	21.46	21.55	21.44
		36	39	21.48	21.5	21.37
		75	0	21.37	21.35	21.25
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0	23.61	23.64	23.52
		1	50	23.5	23.49	23.37
		1	99	23.48	23.51	23.41
		50	0	22.73	22.79	22.69
		50	25	22.76	22.83	22.66
		50	50	22.78	22.81	22.67
		100	0	22.62	22.61	22.58
	16QAM	1	0	22.5	22.52	22.36
		1	50	22.38	22.39	22.25
		1	99	22.45	22.47	22.35
		50	0	21.59	21.54	21.51
		50	25	21.62	21.68	21.6
		50	50	21.64	21.63	21.53
		100	0	21.53	21.48	21.41

5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	22.13	22.35	22.08
		1	3	22.01	22.23	21.96
		1	5	22.02	22.24	21.95
		3	0	21.28	21.53	21.26
		3	2	21.31	21.50	21.24
		3	3	21.25	21.54	21.25
		6	0	21.15	21.40	21.11
	16QAM	1	0	21	21.20	20.96
		1	3	20.89	21.09	20.83
		1	5	20.98	21.17	20.91
		3	0	20.05	20.25	20.12
		3	2	20.17	20.38	20.23
		3	3	20.16	20.35	20.15
		6	0	19.98	20.22	19.93
3MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
		1	0	22.56	22.71	22.34
		1	7	22.44	22.59	22.22
		1	14	22.45	22.6	22.21
		8	0	21.71	21.89	21.52
		8	4	21.74	21.86	21.5
	16QAM	8	7	21.68	21.9	21.51
		15	0	21.58	21.76	21.37
		1	0	21.43	21.56	21.22
		1	7	21.32	21.45	21.09
		1	14	21.41	21.53	21.17
		8	0	20.48	20.61	20.38
		8	4	20.6	20.74	20.49
	8	7	20.59	20.71	20.41	
	15	0	20.41	20.58	20.19	

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0	22.83	22.76	22.71
		1	13	22.71	22.64	22.59
		1	24	22.72	22.65	22.58
		12	0	21.98	21.94	21.89
		12	6	22.01	21.91	21.87
		12	13	21.95	21.95	21.88
		25	0	21.85	21.81	21.74
	16QAM	1	0	21.7	21.61	21.59
		1	13	21.59	21.5	21.46
		1	24	21.68	21.58	21.54
		12	0	20.75	20.66	20.75
		12	6	20.87	20.79	20.86
		12	13	20.86	20.76	20.78
		25	0	20.68	20.63	20.56
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0	23.05	23.12	23.01
		1	25	22.93	23	22.89
		1	49	22.94	23.01	22.88
		25	0	21.16	21.27	21.24
		25	13	21.05	21.08	21.12
		25	25	21.01	21	21.09
		50	0	21.03	21.14	21.09
	16QAM	1	0	21.92	21.97	21.89
		1	25	21.81	21.86	21.76
		1	49	21.9	21.94	21.84
		25	0	20.97	21.02	21.05
		25	13	21.09	21.15	21.16
		25	25	21.08	21.12	21.08
		50	0	20.9	20.99	20.86

6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0	22.84	22.96	22.75
		1	13	22.69	22.83	22.6
		1	24	22.66	22.81	22.56
		12	0	22.01	22.12	21.9
		12	6	21.96	22.13	21.86
		12	13	21.95	22.14	21.87
		25	0	21.9	21.97	21.76
	16QAM	1	0	21.72	21.79	21.62
		1	13	21.57	21.66	21.49
		1	24	21.67	21.74	21.54
		12	0	20.76	20.86	20.81
		12	6	20.87	20.75	20.86
		12	13	20.85	20.81	20.77
		25	0	20.72	19.94	20.53
10MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
		1	0	23.02	23.15	22.96
		1	25	22.9	23	22.83
		1	49	22.88	23.02	22.81
		25	0	21.24	21.32	21.27
		25	13	21.15	21.25	21.18
	16QAM	25	25	21.05	21.11	21.02
		50	0	21.12	21.2	21.15
		1	0	21.89	22	21.85
		1	25	21.75	21.89	21.69
		1	49	21.87	21.98	21.8
		25	0	20.95	21.05	21
		25	13	21.06	20.97	21.11
		25	25	21.07	21.07	21.03
		50	0	20.96	20.17	20.8

7. LTE Band 25 Conducted Power Test Verdict:

LTE FDD Band 25				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26047	26365	26683
1.4MHz	QPSK	1	0	22.63	22.51	22.63
		1	3	22.48	22.38	22.48
		1	5	22.45	22.36	22.44
		3	0	21.8	21.67	21.78
		3	2	21.75	21.68	21.74
		3	3	21.74	21.69	21.75
		6	0	21.69	21.52	21.64
	16QAM	1	0	21.51	21.34	21.5
		1	3	21.36	21.21	21.37
		1	5	21.46	21.29	21.42
		3	0	20.55	20.41	20.69
		3	2	20.66	20.3	20.74
		3	3	20.64	20.36	20.65
		6	0	20.51	19.49	20.41
3MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
		1	0	22.63	22.74	22.78
		1	7	22.48	22.61	22.63
		1	14	22.45	22.59	22.59
		8	0	21.8	21.9	21.93
		8	4	21.75	21.91	21.89
		8	7	21.74	21.92	21.9
	16QAM	15	0	21.69	21.75	21.79
		1	0	21.51	21.57	21.65
		1	7	21.36	21.44	21.52
		1	14	21.46	21.52	21.57
		8	0	20.55	20.64	20.84
		8	4	20.66	20.53	20.89
		8	7	20.64	20.59	20.8
		15	0	20.51	19.72	20.56

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26065	26365	26665
5MHz	QPSK	1	0	22.83	22.88	22.94
		1	13	22.68	22.76	22.83
		1	24	22.64	22.73	22.82
		12	0	21.98	22.02	22.11
		12	6	21.92	22.01	21.99
		12	13	21.9	22.02	21.99
		25	0	21.85	21.84	21.98
	16QAM	1	0	21.68	21.74	21.8
		1	13	21.5	21.63	21.65
		1	24	21.64	21.69	21.72
		12	0	20.72	20.81	20.97
		12	6	20.83	20.75	21.09
		12	13	20.85	20.76	20.95
		25	0	20.71	19.96	20.66
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26090	26365	26640
10MHz	QPSK	1	0	23.12	23.08	23.05
		1	25	23	22.93	22.92
		1	49	22.98	22.95	22.9
		25	0	22.31	22.23	22.21
		25	13	22.27	22.27	22.14
		25	25	22.26	22.24	22.13
		50	0	22.19	22.11	22.09
	16QAM	1	0	21.99	21.93	21.94
		1	25	21.85	21.82	21.78
		1	49	21.97	21.91	21.89
		25	0	21.05	20.98	21.09
		25	13	21.16	20.9	21.2
		25	25	21.17	21	21.12
		50	0	21.06	20.1	20.89

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26115	26365	26615
15MHz	QPSK	1	0	23.12	23.14	23.28
		1	38	22.97	23.02	23.17
		1	74	22.93	22.99	23.16
		36	0	22.27	22.28	22.45
		36	18	22.21	22.27	22.33
		36	39	22.19	22.28	22.33
		75	0	22.14	22.1	22.32
	16QAM	1	0	21.97	22	22.14
		1	38	21.79	21.89	21.99
		1	74	21.93	21.95	22.06
		36	0	21.01	21.07	21.31
		36	18	21.12	21.01	21.43
		36	39	21.14	21.02	21.29
		75	0	21	20.22	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26140	26365	26590
20MHz	QPSK	1	0	23.35	23.54	23.41
		1	50	23.2	23.42	23.3
		1	99	23.16	23.39	23.29
		50	0	22.5	22.68	22.58
		50	25	22.44	22.67	22.46
		50	50	22.42	22.68	22.46
		100	0	22.37	22.5	22.45
	16QAM	1	0	22.2	22.4	22.27
		1	50	22.02	22.29	22.12
		1	99	22.16	22.35	22.19
		50	0	21.24	21.47	21.44
		50	25	21.35	21.41	21.56
		50	50	21.37	21.42	21.42
		100	0	21.23	20.62	21.13

8. LTE Band 26 Conducted Power Test Verdict

LTE FDD Band 26				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26697	26865	27033
1.4MHz	QPSK	1	0	22.58	22.71	22.72
		1	3	22.43	22.58	22.57
		1	5	22.4	22.56	22.53
		3	0	21.75	21.87	21.87
		3	2	21.7	21.88	21.83
		3	3	21.69	21.89	21.84
		6	0	21.64	21.72	21.73
	16QAM	1	0	21.46	21.54	21.59
		1	3	21.31	21.41	21.46
		1	5	21.41	21.49	21.51
		3	0	20.5	20.61	20.78
		3	2	20.61	20.5	20.83
		3	3	20.59	20.56	20.74
		6	0	20.46	19.69	20.5
3MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
		1	0	22.76	22.83	22.88
		1	7	22.61	22.71	22.77
		1	14	22.57	22.68	22.76
		8	0	21.91	21.97	22.05
		8	4	21.85	21.96	21.93
		8	7	21.83	21.97	21.93
	16QAM	15	0	21.78	21.79	21.92
		1	0	21.61	21.69	21.74
		1	7	21.43	21.58	21.59
		1	14	21.57	21.64	21.66
		8	0	20.65	20.76	20.91
		8	4	20.76	20.7	21.03
		8	7	20.78	20.71	20.89
		15	0	20.64	19.91	20.6

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26715	26865	27015
5MHz	QPSK	1	0	23.05	23.04	23.13
		1	13	22.9	22.92	23.02
		1	24	22.86	22.89	23.01
		12	0	22.2	22.18	22.3
		12	6	22.14	22.17	22.18
		12	13	22.12	22.18	22.18
		25	0	22.07	22	22.17
	16QAM	1	0	21.9	21.9	21.99
		1	13	21.72	21.79	21.84
		1	24	21.86	21.85	21.91
		12	0	20.94	20.97	21.16
		12	6	21.05	20.91	21.28
		12	13	21.07	20.92	21.14
		25	0	20.93	20.12	20.85
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26740	26865	26990
10MHz	QPSK	1	0	23.21	23.15	23.25
		1	25	23.06	23.03	23.14
		1	49	23.02	23	23.13
		25	0	22.36	22.29	22.42
		25	13	22.3	22.28	22.3
		25	25	22.28	22.29	22.3
		50	0	22.23	22.11	22.29
	16QAM	1	0	22.06	22.01	22.11
		1	25	21.88	21.9	21.96
		1	49	22.02	21.96	22.03
		25	0	21.1	21.08	21.28
		25	13	21.21	21.02	21.4
		25	25	21.23	21.03	21.26
		50	0	21.09	20.23	20.97

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26765	26865	26965
15MHz	QPSK	1	0	23.35	23.56	23.4
		1	38	23.2	23.44	23.29
		1	74	23.16	23.41	23.28
		36	0	22.5	22.7	22.57
		36	18	22.44	22.69	22.45
		36	39	22.42	22.7	22.45
		75	0	22.37	22.52	22.44
	16QAM	1	0	22.2	22.42	22.26
		1	38	22.02	22.31	22.11
		1	74	22.16	22.37	22.18
		36	0	21.24	21.49	21.43
		36	18	21.35	21.43	21.55
		36	39	21.37	21.44	21.41
		75	0	21.23	20.64	21.12

9. LTE Band 30 Conducted Power Test Verdict

LTE FDD Band 30				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				27685	27710	27735
5MHz	QPSK	1	0	22.12	22.31	22.39
		1	13	22	22.19	22.27
		1	24	22.01	22.2	22.26
		12	0	21.27	21.49	21.57
		12	6	21.3	21.46	21.55
		12	13	21.24	21.5	21.56
		25	0	21.14	21.36	21.42
	16QAM	1	0	20.99	21.16	21.27
		1	13	20.88	21.05	21.14
		1	24	20.97	21.13	21.22
		12	0	20.04	20.21	20.43
		12	6	20.16	20.34	20.54
		12	13	20.15	20.31	20.46
		25	0	19.97	20.18	20.24
10MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
				27710	27710	27710
		1	0	22.62	22.68	22.54
		1	25	22.5	22.56	22.42
		1	49	22.51	22.57	22.41
		25	0	21.16	21.27	21.24
		25	13	21.05	21.08	21.12
	16QAM	25	25	21.01	21	21.09
		50	0	21.03	21.14	21.09
		1	0	21.49	21.53	21.42
		1	25	21.38	21.42	21.29
		1	49	21.47	21.5	21.37
		25	0	20.54	20.58	20.58
		25	13	20.66	20.71	20.69
		25	25	20.65	20.68	20.61
		50	0	20.47	20.55	20.39

10. LTE Band 41 Conducted Power Test Verdict

LTE TDD Band 41				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39675	40620	41565
5MHz	QPSK	1	0	22.38	22.46	22.32
		1	13	22.23	22.34	22.21
		1	24	22.19	22.31	22.2
		12	0	21.53	21.6	21.49
		12	6	21.47	21.59	21.37
		12	13	21.45	21.6	21.37
		25	0	21.4	21.42	21.36
	16QAM	1	0	21.23	21.32	21.18
		1	13	21.05	21.21	21.03
		1	24	21.19	21.27	21.1
		12	0	20.27	20.39	20.35
		12	6	20.38	20.33	20.47
		12	13	20.4	20.34	20.33
		25	0	20.26	19.54	20.04
10MHz	QPSK	Bandwidth	Modulation	RB size	RB offset	Channel
				39700	40620	41540
		1	0	22.58	22.73	22.56
		1	25	22.43	22.61	22.45
		1	49	22.39	22.58	22.44
		25	0	21.73	21.87	21.73
		25	13	21.67	21.86	21.61
	16QAM	25	25	21.65	21.87	21.61
		50	0	21.6	21.69	21.6
		1	0	21.43	21.59	21.42
		1	25	21.25	21.48	21.27
		1	49	21.39	21.54	21.34
		25	0	20.47	20.66	20.59
		25	13	20.58	20.6	20.71
		25	25	20.6	20.61	20.57
		50	0	20.46	19.81	20.28

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39725	40620	41515
15MHz	QPSK	1	0	22.85	22.93	22.84
		1	38	22.7	22.81	22.73
		1	74	22.66	22.78	22.72
		36	0	22	22.07	22.01
		36	18	21.94	22.06	21.89
		36	39	21.92	22.07	21.89
		75	0	21.87	21.89	21.88
	16QAM	1	0	21.7	21.79	21.7
		1	38	21.52	21.68	21.55
		1	74	21.66	21.74	21.62
		36	0	20.74	20.86	20.87
		36	18	20.85	20.8	20.99
		36	39	20.87	20.81	20.85
		75	0	20.73	20.01	20.56
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39750	40620	41490
20MHz	QPSK	1	0	23.13	23.21	23.12
		1	50	22.98	23.09	23.01
		1	99	22.94	23.06	23
		50	0	22.28	22.35	22.29
		50	25	22.22	22.34	22.17
		50	50	22.2	22.35	22.17
		100	0	22.15	22.17	22.16
	16QAM	1	0	21.98	22.07	21.98
		1	50	21.8	21.96	21.83
		1	99	21.94	22.02	21.9
		50	0	21.02	21.14	21.15
		50	25	21.13	21.08	21.27
		50	50	21.15	21.09	21.13
		100	0	21.01	20.29	20.84

11. LTE Band 66 Conducted Power Test Verdict

LTE FDD Band 66				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131979	132322	132665
1.4MHz	QPSK	1	0	22.51	22.65	22.33
		1	3	22.38	22.55	22.21
		1	5	22.4	22.54	22.2
		3	0	21.68	21.83	21.48
		3	2	21.69	21.82	21.45
		3	3	21.7	21.84	21.46
		6	0	21.56	21.71	21.35
	16QAM	1	0	21.38	21.5	21.22
		1	3	21.23	21.39	21.09
		1	5	21.36	21.47	21.21
		3	0	20.45	20.58	20.4
		3	2	20.53	20.68	20.43
		3	3	20.55	20.69	20.37
		6	0	20.43	20.59	20.22
3MHz	QPSK	RB size	RB offset	Channel	Channel	Channel
		1	0	22.61	22.72	22.4
		1	7	22.48	22.62	22.28
		1	14	22.5	22.61	22.27
		8	0	21.78	21.9	21.55
		8	4	21.79	21.89	21.52
		8	7	21.8	21.91	21.53
	16QAM	15	0	21.66	21.78	21.42
		1	0	21.48	21.57	21.29
		1	7	21.33	21.46	21.16
		1	14	21.46	21.54	21.28
		8	0	20.55	20.65	20.47
		8	4	20.63	20.75	20.5
		8	7	20.65	20.76	20.44
		15	0	20.53	20.66	20.29

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131997	132322	132647
5MHz	QPSK	1	0	22.73	22.81	22.64
		1	13	22.6	22.71	22.52
		1	24	22.62	22.7	22.51
		12	0	21.9	21.99	21.79
		12	6	21.91	21.98	21.76
		12	13	21.92	22	21.77
		25	0	21.78	21.87	21.66
	16QAM	1	0	21.6	21.66	21.53
		1	13	21.45	21.55	21.4
		1	24	21.58	21.63	21.52
		12	0	20.67	20.74	20.71
		12	6	20.75	20.84	20.74
		12	13	20.77	20.85	20.68
		25	0	20.65	20.75	20.53
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132022	132322	132622
10MHz	QPSK	1	0	22.95	23.02	22.84
		1	25	22.82	22.92	22.72
		1	49	22.84	22.91	22.71
		25	0	22.12	22.2	21.99
		25	13	22.13	22.19	21.96
		25	25	22.14	22.21	21.97
		50	0	22	22.08	21.86
	16QAM	1	0	21.82	21.87	21.73
		1	25	21.67	21.76	21.6
		1	49	21.8	21.84	21.72
		25	0	20.89	20.95	20.91
		25	13	20.97	21.05	20.94
		25	25	20.99	21.06	20.88
		50	0	20.87	20.96	20.73

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132047	132322	132597
15MHz	QPSK	1	0	23.16	23.27	23.1
		1	38	23.03	23.17	22.98
		1	74	23.05	23.16	22.97
		36	0	22.33	22.45	22.25
		36	18	22.34	22.44	22.22
		36	39	22.35	22.46	22.23
		75	0	22.21	22.33	22.12
	16QAM	1	0	22.03	22.12	21.99
		1	38	21.88	22.01	21.86
		1	74	22.01	22.09	21.98
		36	0	21.1	21.2	21.17
		36	18	21.18	21.3	21.2
		36	39	21.2	21.31	21.14
		75	0	21.08	21.21	20.99
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	132572
20MHz	QPSK	1	0	23.25	23.37	23.22
		1	50	23.12	23.27	23.1
		1	99	23.14	23.26	23.09
		50	0	22.42	22.55	22.37
		50	25	22.43	22.54	22.34
		50	50	22.44	22.56	22.35
		100	0	22.3	22.43	22.24
	16QAM	1	0	22.12	22.22	22.11
		1	50	21.97	22.11	21.98
		1	99	22.1	22.19	22.1
		50	0	21.19	21.3	21.29
		50	25	21.27	21.4	21.32
		50	50	21.29	21.41	21.26
		100	0	21.17	21.31	21.11

Peak To Average Ratio

Test Result and Data

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	1.4	OneRB_high	Q16	4.41	13.00	Pass
FDD02	LowRange	1.4	fullRB	Q16	5.76	13.00	Pass
FDD02	LowRange	3	OneRB_high	Q16	5.60	13.00	Pass
FDD02	LowRange	3	fullRB	Q16	5.26	13.00	Pass
FDD02	LowRange	5	OneRB_high	Q16	4.17	13.00	Pass
FDD02	LowRange	5	fullRB	Q16	5.82	13.00	Pass
FDD02	LowRange	10	OneRB_high	Q16	4.35	13.00	Pass
FDD02	LowRange	10	fullRB	Q16	5.88	13.00	Pass
FDD02	LowRange	15	OneRB_high	Q16	4.32	13.00	Pass
FDD02	LowRange	15	fullRB	Q16	5.99	13.00	Pass
FDD02	LowRange	20	OneRB_high	Q16	4.31	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	5.88	13.00	Pass
FDD02	MidRange	1.4	OneRB_high	Q16	4.36	13.00	Pass
FDD02	MidRange	1.4	fullRB	Q16	5.01	13.00	Pass
FDD02	MidRange	3	OneRB_high	Q16	4.17	13.00	Pass
FDD02	MidRange	3	fullRB	Q16	5.99	13.00	Pass
FDD02	MidRange	5	OneRB_high	Q16	4.21	13.00	Pass
FDD02	MidRange	5	fullRB	Q16	5.97	13.00	Pass
FDD02	MidRange	10	OneRB_high	Q16	4.20	13.00	Pass
FDD02	MidRange	10	fullRB	Q16	5.94	13.00	Pass
FDD02	MidRange	15	OneRB_high	Q16	4.15	13.00	Pass
FDD02	MidRange	15	fullRB	Q16	6.02	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	4.17	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	5.89	13.00	Pass
FDD02	HighRange	1.4	OneRB_high	Q16	4.22	13.00	Pass
FDD02	HighRange	1.4	fullRB	Q16	5.06	13.00	Pass
FDD02	HighRange	3	OneRB_high	Q16	4.12	13.00	Pass



FDD02	HighRange	3	fullRB	Q16	5.94	13.00	Pass
FDD02	HighRange	5	OneRB_high	Q16	3.91	13.00	Pass
FDD02	HighRange	5	fullRB	Q16	5.90	13.00	Pass
FDD02	HighRange	10	OneRB_high	Q16	4.02	13.00	Pass
FDD02	HighRange	10	fullRB	Q16	5.62	13.00	Pass
FDD02	HighRange	15	OneRB_high	Q16	3.97	13.00	Pass
FDD02	HighRange	15	fullRB	Q16	5.68	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	4.07	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	5.82	13.00	Pass
FDD04	LowRange	5	OneRB_high	Q16	4.45	13.00	Pass
FDD04	LowRange	5	fullRB	Q16	5.71	13.00	Pass
FDD04	LowRange	10	OneRB_high	Q16	4.70	13.00	Pass
FDD04	LowRange	10	fullRB	Q16	5.82	13.00	Pass
FDD04	LowRange	15	OneRB_high	Q16	4.54	13.00	Pass
FDD04	LowRange	15	fullRB	Q16	5.79	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	4.53	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	5.89	13.00	Pass
FDD04	MidRange	1.4	OneRB_high	Q16	4.49	13.00	Pass
FDD04	MidRange	1.4	fullRB	Q16	5.76	13.00	Pass
FDD04	MidRange	3	OneRB_high	Q16	4.29	13.00	Pass
FDD04	MidRange	3	fullRB	Q16	5.74	13.00	Pass
FDD04	MidRange	5	OneRB_high	Q16	4.31	13.00	Pass
FDD04	MidRange	5	fullRB	Q16	5.69	13.00	Pass
FDD04	MidRange	10	OneRB_high	Q16	4.28	13.00	Pass
FDD04	MidRange	10	fullRB	Q16	6.01	13.00	Pass
FDD04	MidRange	15	OneRB_high	Q16	4.21	13.00	Pass
FDD04	MidRange	15	fullRB	Q16	6.12	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	4.30	13.00	Pass
FDD04	MidRange	20	fullRB	Q16	6.02	13.00	Pass
FDD04	HighRange	1.4	OneRB_high	Q16	4.54	13.00	Pass
FDD04	HighRange	1.4	fullRB	Q16	6.00	13.00	Pass
FDD04	HighRange	3	OneRB_high	Q16	4.38	13.00	Pass



FDD04	HighRange	5	OneRB_high	Q16	4.17	13.00	Pass
FDD04	HighRange	5	fullRB	Q16	6.00	13.00	Pass
FDD04	HighRange	10	OneRB_high	Q16	4.30	13.00	Pass
FDD04	HighRange	10	fullRB	Q16	5.97	13.00	Pass
FDD04	HighRange	15	OneRB_high	Q16	4.25	13.00	Pass
FDD04	HighRange	15	fullRB	Q16	5.94	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	4.42	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	5.79	13.00	Pass
FDD05	LowRange	1.4	OneRB_high	Q16	4.41	13.00	Pass
FDD05	LowRange	1.4	fullRB	Q16	4.12	13.00	Pass
FDD05	LowRange	3	OneRB_high	Q16	4.35	13.00	Pass
FDD05	LowRange	10	OneRB_high	Q16	4.45	13.00	Pass
FDD05	LowRange	10	fullRB	Q16	5.93	13.00	Pass
FDD05	MidRange	1.4	OneRB_high	Q16	4.48	13.00	Pass
FDD05	MidRange	1.4	fullRB	Q16	4.55	13.00	Pass
FDD05	MidRange	3	OneRB_high	Q16	4.24	13.00	Pass
FDD05	MidRange	3	fullRB	Q16	6.02	13.00	Pass
FDD05	MidRange	5	OneRB_high	Q16	4.26	13.00	Pass
FDD05	MidRange	5	fullRB	Q16	5.97	13.00	Pass
FDD05	MidRange	10	OneRB_high	Q16	4.18	13.00	Pass
FDD05	MidRange	10	fullRB	Q16	5.93	13.00	Pass
FDD05	HighRange	1.4	OneRB_high	Q16	4.50	13.00	Pass
FDD05	HighRange	1.4	fullRB	Q16	5.72	13.00	Pass
FDD05	HighRange	3	OneRB_high	Q16	4.41	13.00	Pass
FDD05	HighRange	3	fullRB	Q16	5.80	13.00	Pass
FDD05	HighRange	5	OneRB_high	Q16	4.20	13.00	Pass
FDD05	HighRange	5	fullRB	Q16	5.85	13.00	Pass
FDD05	HighRange	10	OneRB_high	Q16	4.17	13.00	Pass
FDD05	HighRange	10	fullRB	Q16	5.87	13.00	Pass
FDD07	LowRange	10	OneRB_high	Q16	4.40	13.00	Pass
FDD07	LowRange	10	fullRB	Q16	6.03	13.00	Pass
FDD07	LowRange	15	OneRB_high	Q16	4.27	13.00	Pass

FDD07	LowRange	15	fullRB	Q16	6.04	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	4.37	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	5.93	13.00	Pass
FDD07	MidRange	5	OneRB_high	Q16	4.11	13.00	Pass
FDD07	MidRange	5	fullRB	Q16	6.02	13.00	Pass
FDD07	MidRange	10	OneRB_high	Q16	4.19	13.00	Pass
FDD07	MidRange	10	fullRB	Q16	5.98	13.00	Pass
FDD07	MidRange	15	OneRB_high	Q16	4.20	13.00	Pass
FDD07	MidRange	15	fullRB	Q16	6.08	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	4.08	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	5.97	13.00	Pass
FDD07	HighRange	5	OneRB_high	Q16	4.01	13.00	Pass
FDD07	HighRange	5	fullRB	Q16	5.86	13.00	Pass
FDD07	HighRange	10	OneRB_high	Q16	4.07	13.00	Pass
FDD07	HighRange	10	fullRB	Q16	5.95	13.00	Pass
FDD07	HighRange	15	OneRB_high	Q16	4.01	13.00	Pass
FDD07	HighRange	15	fullRB	Q16	5.98	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	4.13	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	5.93	13.00	Pass
FDD12	LowRange	3	OneRB_high	Q16	4.86	13.00	Pass
FDD12	LowRange	3	fullRB	Q16	5.75	13.00	Pass
FDD12	LowRange	5	OneRB_high	Q16	4.54	13.00	Pass
FDD12	LowRange	5	fullRB	Q16	5.78	13.00	Pass
FDD12	LowRange	10	OneRB_high	Q16	4.25	13.00	Pass
FDD12	LowRange	10	fullRB	Q16	5.72	13.00	Pass
FDD12	MidRange	1.4	OneRB_high	Q16	4.37	13.00	Pass
FDD12	MidRange	1.4	fullRB	Q16	4.95	13.00	Pass
FDD12	MidRange	3	OneRB_high	Q16	4.20	13.00	Pass
FDD12	MidRange	3	fullRB	Q16	5.80	13.00	Pass
FDD12	MidRange	5	OneRB_high	Q16	4.27	13.00	Pass
FDD12	MidRange	5	fullRB	Q16	5.67	13.00	Pass
FDD12	MidRange	10	OneRB_high	Q16	4.43	13.00	Pass

FDD12	MidRange	10	fullRB	Q16	5.68	13.00	Pass
FDD12	HighRange	1.4	OneRB_high	Q16	4.49	13.00	Pass
FDD12	HighRange	1.4	fullRB	Q16	5.60	13.00	Pass
FDD12	HighRange	3	OneRB_high	Q16	4.44	13.00	Pass
FDD12	HighRange	3	fullRB	Q16	5.66	13.00	Pass
FDD12	HighRange	5	OneRB_high	Q16	4.27	13.00	Pass
FDD12	HighRange	5	fullRB	Q16	5.64	13.00	Pass
FDD12	HighRange	10	OneRB_high	Q16	4.42	13.00	Pass
FDD12	HighRange	10	fullRB	Q16	5.75	13.00	Pass
FDD17	LowRange	10	OneRB_high	Q16	4.52	13.00	Pass
FDD17	LowRange	10	fullRB	Q16	5.77	13.00	Pass
FDD17	MidRange	5	OneRB_high	Q16	4.32	13.00	Pass
FDD17	MidRange	5	fullRB	Q16	5.86	13.00	Pass
FDD17	MidRange	10	OneRB_high	Q16	4.39	13.00	Pass
FDD17	MidRange	10	fullRB	Q16	5.76	13.00	Pass
FDD17	HighRange	5	OneRB_high	Q16	4.21	13.00	Pass
FDD17	HighRange	5	fullRB	Q16	5.70	13.00	Pass
FDD17	HighRange	10	OneRB_high	Q16	4.36	13.00	Pass
FDD17	HighRange	10	fullRB	Q16	5.76	13.00	Pass
FDD25	LowRange	3	OneRB_high	Q16	6.02	13.00	Pass
FDD25	LowRange	3	fullRB	Q16	4.95	13.00	Pass
FDD25	LowRange	5	OneRB_high	Q16	4.06	13.00	Pass
FDD25	LowRange	5	fullRB	Q16	6.01	13.00	Pass
FDD25	LowRange	10	OneRB_high	Q16	4.25	13.00	Pass
FDD25	LowRange	10	fullRB	Q16	5.98	13.00	Pass
FDD25	LowRange	15	OneRB_high	Q16	4.20	13.00	Pass
FDD25	LowRange	15	fullRB	Q16	6.06	13.00	Pass
FDD25	LowRange	20	OneRB_high	Q16	4.21	13.00	Pass
FDD25	LowRange	20	fullRB	Q16	5.87	13.00	Pass
FDD25	MidRange	1.4	OneRB_high	Q16	4.39	13.00	Pass
FDD25	MidRange	1.4	fullRB	Q16	5.69	13.00	Pass
FDD25	MidRange	3	OneRB_high	Q16	4.21	13.00	Pass



FDD25	MidRange	3	fullRB	Q16	6.03	13.00	Pass
FDD25	MidRange	5	OneRB_high	Q16	4.27	13.00	Pass
FDD25	MidRange	5	fullRB	Q16	6.00	13.00	Pass
FDD25	MidRange	10	OneRB_high	Q16	4.21	13.00	Pass
FDD25	MidRange	10	fullRB	Q16	6.00	13.00	Pass
FDD25	MidRange	15	OneRB_high	Q16	4.11	13.00	Pass
FDD25	MidRange	15	fullRB	Q16	6.09	13.00	Pass
FDD25	MidRange	20	OneRB_high	Q16	4.15	13.00	Pass
FDD25	MidRange	20	fullRB	Q16	5.99	13.00	Pass
FDD25	HighRange	1.4	OneRB_high	Q16	4.37	13.00	Pass
FDD25	HighRange	1.4	fullRB	Q16	5.80	13.00	Pass
FDD25	HighRange	3	OneRB_high	Q16	4.24	13.00	Pass
FDD25	HighRange	3	fullRB	Q16	5.78	13.00	Pass
FDD25	HighRange	5	OneRB_high	Q16	4.11	13.00	Pass
FDD25	HighRange	5	fullRB	Q16	5.85	13.00	Pass
FDD25	HighRange	10	OneRB_high	Q16	4.24	13.00	Pass
FDD25	HighRange	10	fullRB	Q16	5.91	13.00	Pass
FDD25	HighRange	15	OneRB_high	Q16	4.13	13.00	Pass
FDD25	HighRange	15	fullRB	Q16	6.03	13.00	Pass
FDD25	HighRange	20	OneRB_high	Q16	4.31	13.00	Pass
FDD25	HighRange	20	fullRB	Q16	5.97	13.00	Pass
FDD26	LowRange	3	OneRB_high	Q16	5.62	13.00	Pass
FDD26	LowRange	3	fullRB	Q16	5.66	13.00	Pass
FDD26	LowRange	5	OneRB_high	Q16	4.51	13.00	Pass
FDD26	LowRange	5	fullRB	Q16	6.03	13.00	Pass
FDD26	LowRange	10	OneRB_high	Q16	4.29	13.00	Pass
FDD26	LowRange	10	fullRB	Q16	5.98	13.00	Pass
FDD26	LowRange	15	OneRB_high	Q16	4.25	13.00	Pass
FDD26	LowRange	15	fullRB	Q16	6.06	13.00	Pass
FDD26	MidRange	1.4	OneRB_high	Q16	4.65	13.00	Pass
FDD26	MidRange	1.4	fullRB	Q16	5.15	13.00	Pass
FDD26	MidRange	3	OneRB_high	Q16	4.45	13.00	Pass



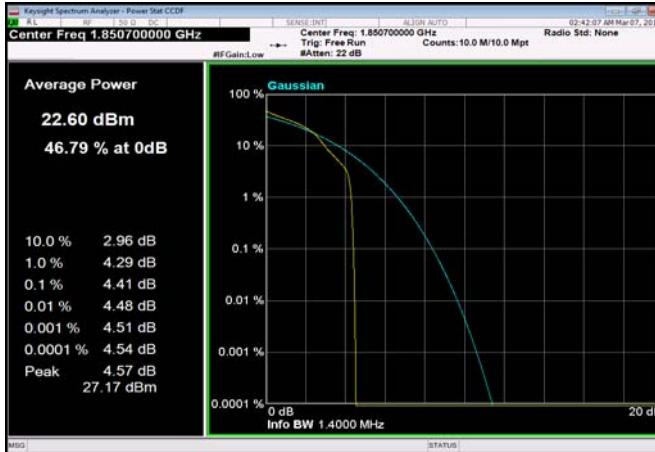
FDD26	MidRange	3	fullRB	Q16	6.02	13.00	Pass
FDD26	MidRange	5	OneRB_high	Q16	4.53	13.00	Pass
FDD26	MidRange	5	fullRB	Q16	6.02	13.00	Pass
FDD26	MidRange	10	OneRB_high	Q16	4.37	13.00	Pass
FDD26	MidRange	10	fullRB	Q16	5.99	13.00	Pass
FDD26	MidRange	15	OneRB_high	Q16	4.13	13.00	Pass
FDD26	MidRange	15	fullRB	Q16	6.09	13.00	Pass
FDD26	HighRange	1.4	OneRB_high	Q16	4.51	13.00	Pass
FDD26	HighRange	1.4	fullRB	Q16	5.95	13.00	Pass
FDD26	HighRange	3	OneRB_high	Q16	4.42	13.00	Pass
FDD26	HighRange	3	fullRB	Q16	6.07	13.00	Pass
FDD26	HighRange	5	OneRB_high	Q16	4.24	13.00	Pass
FDD26	HighRange	5	fullRB	Q16	6.04	13.00	Pass
FDD26	HighRange	10	OneRB_high	Q16	4.25	13.00	Pass
FDD26	HighRange	10	fullRB	Q16	6.03	13.00	Pass
FDD26	HighRange	15	OneRB_high	Q16	4.18	13.00	Pass
FDD26	HighRange	15	fullRB	Q16	6.16	13.00	Pass
TDD41	LowRange	5	OneRB_high	Q16	7.57	13.00	Pass
TDD41	LowRange	5	fullRB	Q16	9.37	13.00	Pass
TDD41	LowRange	10	OneRB_high	Q16	8.21	13.00	Pass
TDD41	LowRange	10	fullRB	Q16	9.64	13.00	Pass
TDD41	LowRange	15	OneRB_high	Q16	8.32	13.00	Pass
TDD41	LowRange	15	fullRB	Q16	9.85	13.00	Pass
TDD41	LowRange	20	OneRB_high	Q16	8.16	13.00	Pass
TDD41	LowRange	20	fullRB	Q16	10.29	13.00	Pass
TDD41	MidRange	5	OneRB_high	Q16	7.88	13.00	Pass
TDD41	MidRange	5	fullRB	Q16	9.42	13.00	Pass
TDD41	MidRange	10	OneRB_high	Q16	8.36	13.00	Pass
TDD41	MidRange	10	fullRB	Q16	9.37	13.00	Pass
TDD41	MidRange	15	OneRB_high	Q16	8.27	13.00	Pass
TDD41	MidRange	15	fullRB	Q16	9.80	13.00	Pass
TDD41	MidRange	20	OneRB_high	Q16	8.11	13.00	Pass

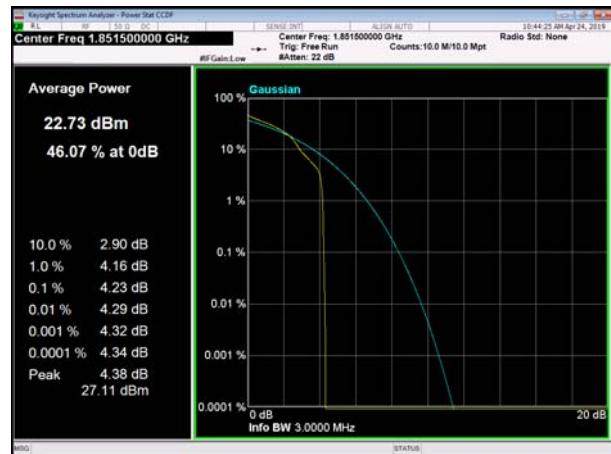
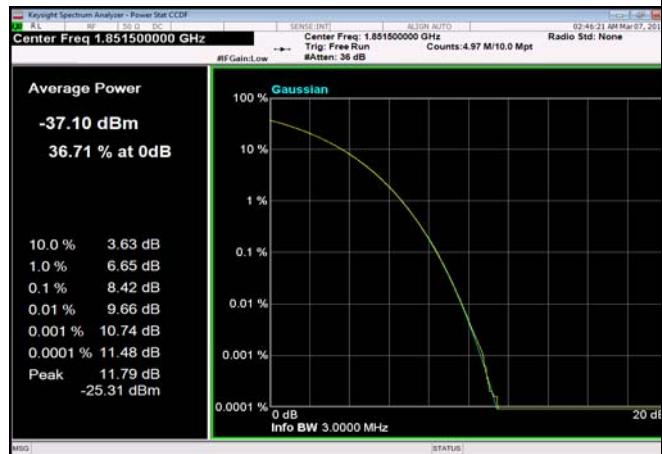
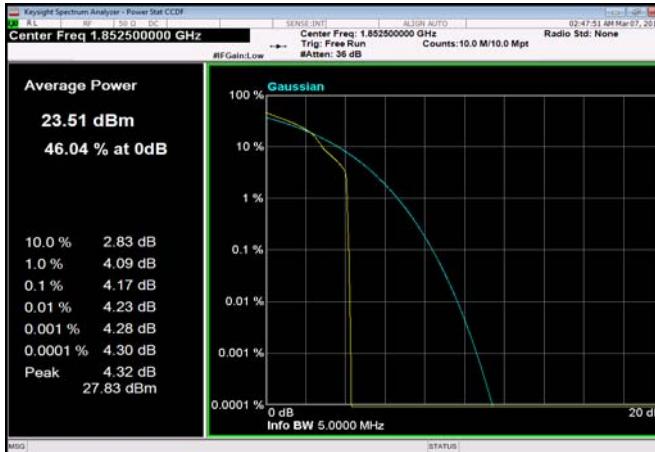
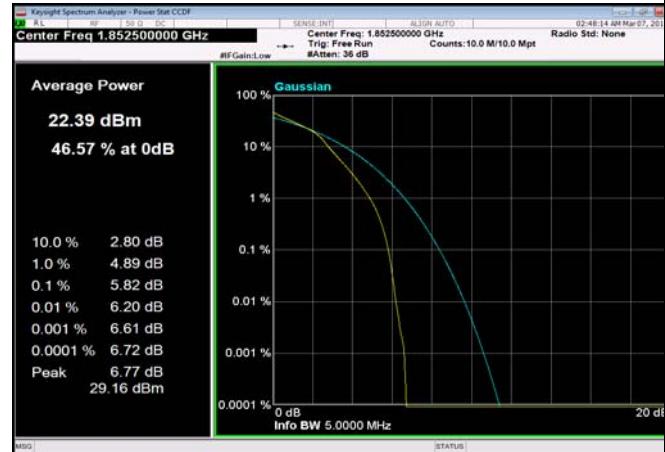


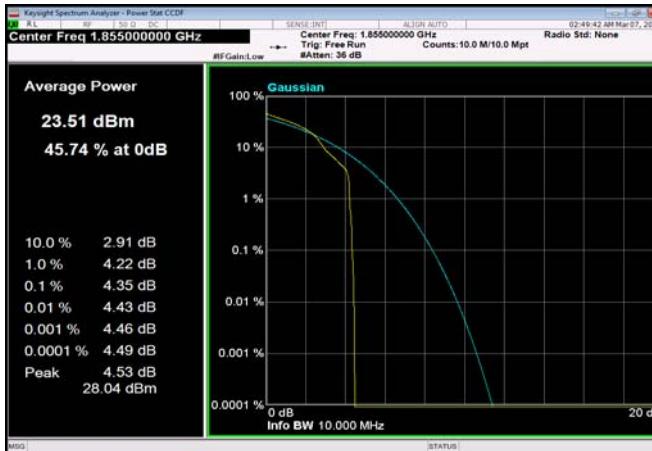
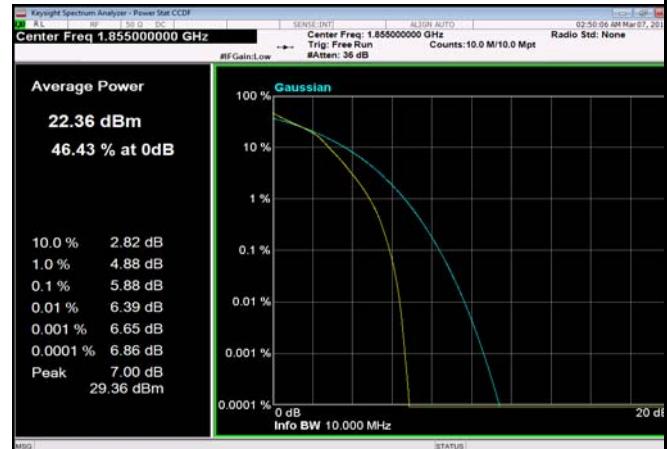
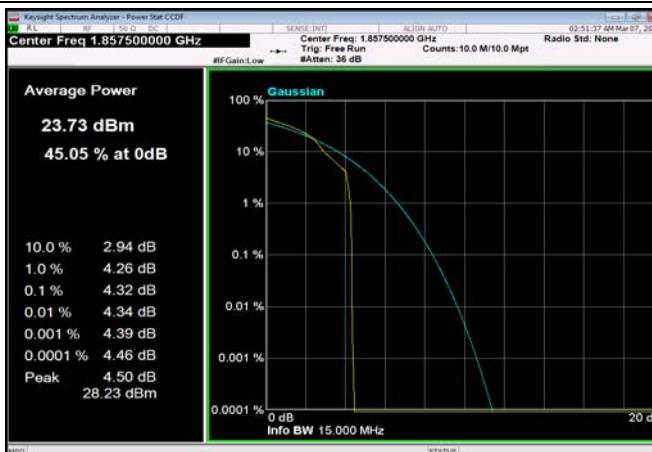
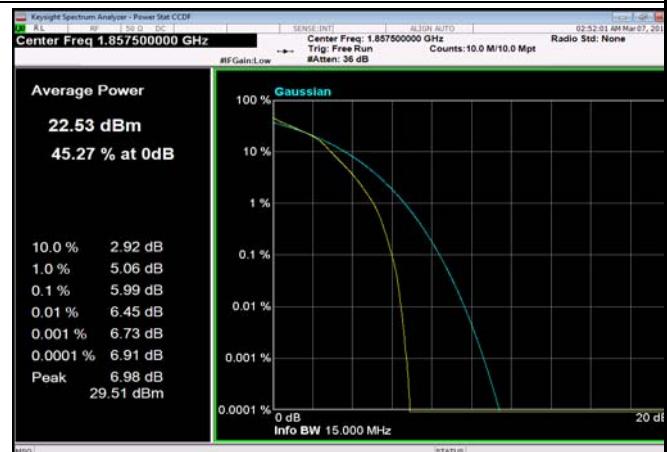
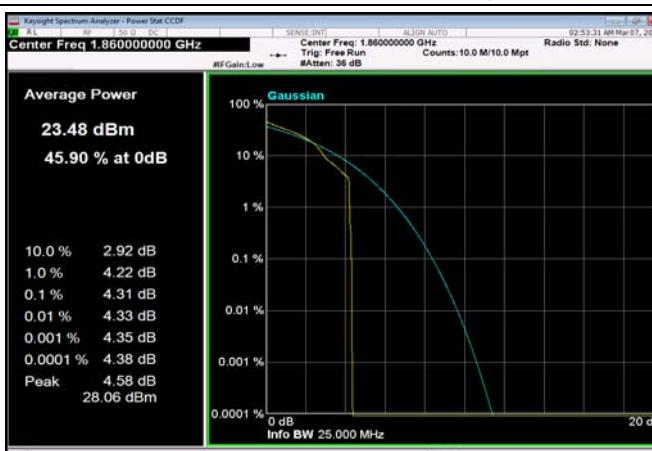
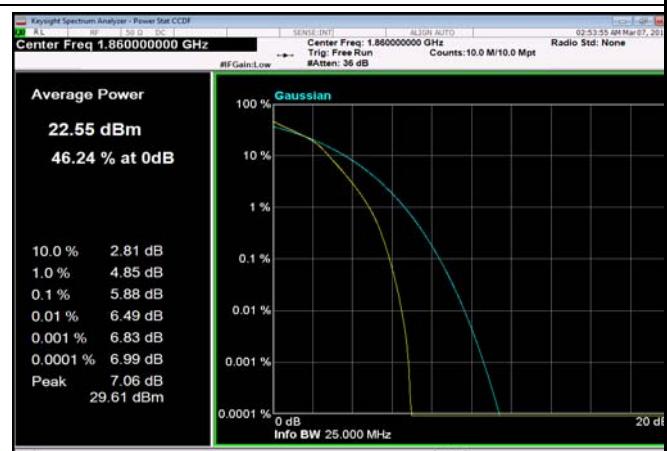
TDD41	MidRange	20	fullRB	Q16	9.29	13.00	Pass
TDD41	HighRange	5	OneRB_high	Q16	7.35	13.00	Pass
TDD41	HighRange	5	fullRB	Q16	7.30	13.00	Pass
TDD41	HighRange	10	OneRB_high	Q16	7.40	13.00	Pass
TDD41	HighRange	10	fullRB	Q16	7.42	13.00	Pass
TDD41	HighRange	15	OneRB_high	Q16	8.52	13.00	Pass
TDD41	HighRange	15	fullRB	Q16	9.45	13.00	Pass
TDD41	HighRange	20	OneRB_high	Q16	8.36	13.00	Pass
TDD41	HighRange	20	fullRB	Q16	9.47	13.00	Pass
FDD66	LowRange	3	OneRB_high	Q16	5.59	13.00	Pass
FDD66	LowRange	3	fullRB	Q16	6.59	13.00	Pass
FDD66	LowRange	5	OneRB_high	Q16	4.38	13.00	Pass
FDD66	LowRange	5	fullRB	Q16	6.03	13.00	Pass
FDD66	LowRange	10	OneRB_high	Q16	4.69	13.00	Pass
FDD66	LowRange	10	fullRB	Q16	6.03	13.00	Pass
FDD66	LowRange	15	OneRB_high	Q16	4.67	13.00	Pass
FDD66	LowRange	15	fullRB	Q16	6.04	13.00	Pass
FDD66	LowRange	20	OneRB_high	Q16	4.56	13.00	Pass
FDD66	LowRange	20	fullRB	Q16	5.96	13.00	Pass
FDD66	MidRange	1.4	OneRB_high	Q16	4.46	13.00	Pass
FDD66	MidRange	1.4	fullRB	Q16	5.02	13.00	Pass
FDD66	MidRange	3	OneRB_high	Q16	4.27	13.00	Pass
FDD66	MidRange	3	fullRB	Q16	5.83	13.00	Pass
FDD66	MidRange	5	OneRB_high	Q16	4.29	13.00	Pass
FDD66	MidRange	5	fullRB	Q16	6.04	13.00	Pass
FDD66	MidRange	10	OneRB_high	Q16	4.28	13.00	Pass
FDD66	MidRange	10	fullRB	Q16	6.02	13.00	Pass
FDD66	MidRange	15	OneRB_high	Q16	4.22	13.00	Pass
FDD66	MidRange	15	fullRB	Q16	6.12	13.00	Pass
FDD66	MidRange	20	OneRB_high	Q16	4.22	13.00	Pass
FDD66	MidRange	20	fullRB	Q16	6.02	13.00	Pass
FDD66	HighRange	1.4	OneRB_high	Q16	4.64	13.00	Pass

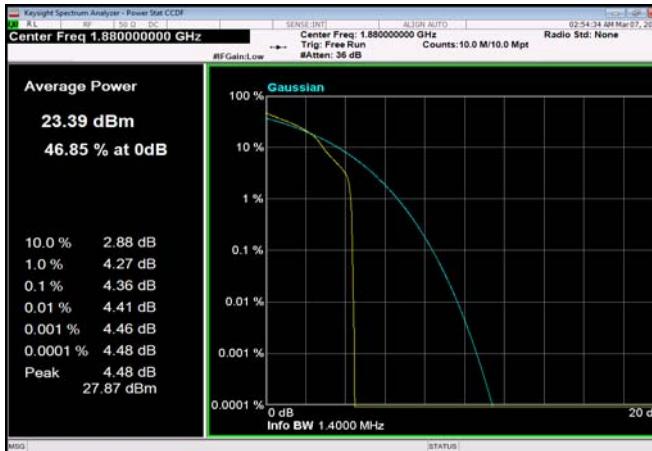
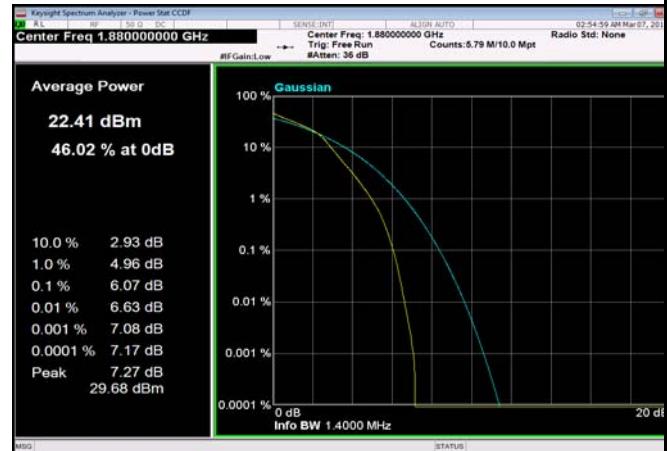
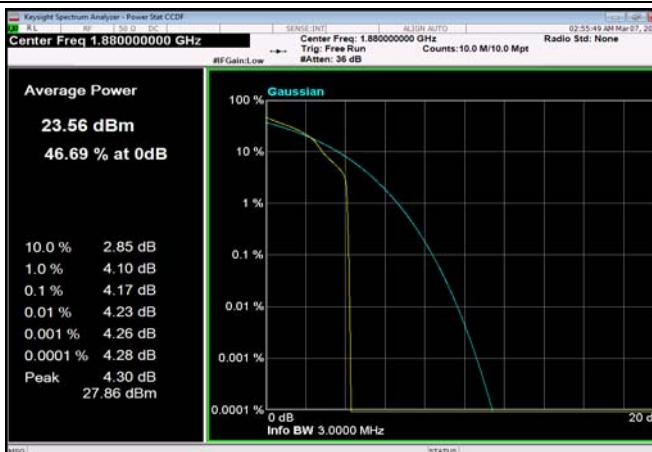
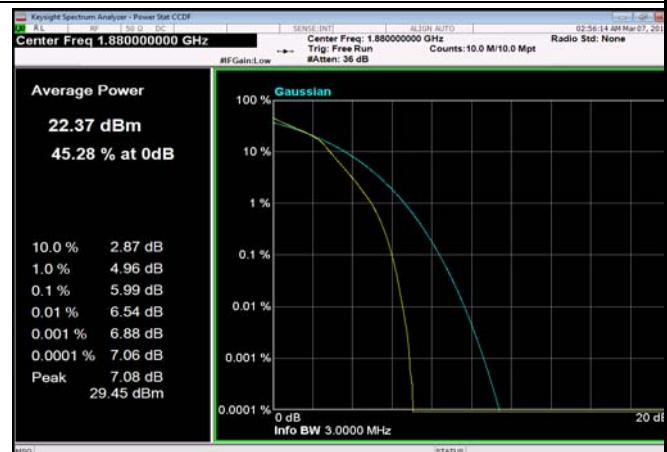
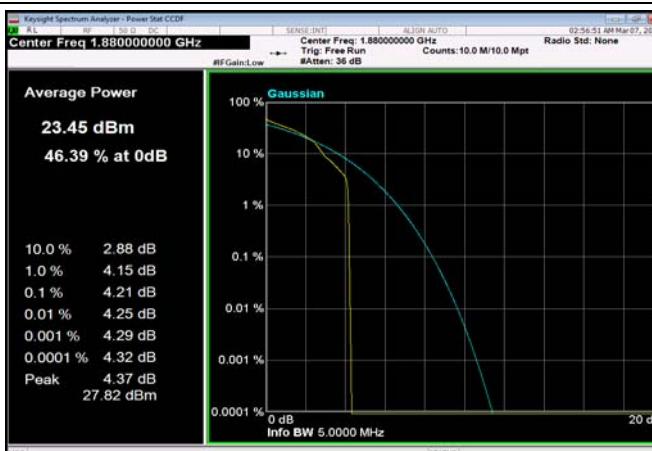
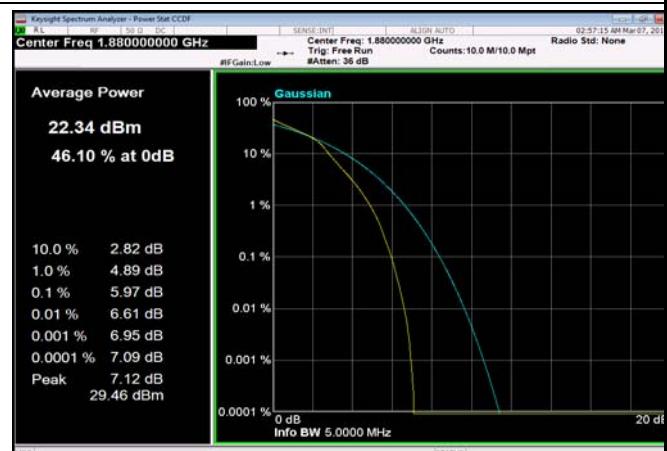


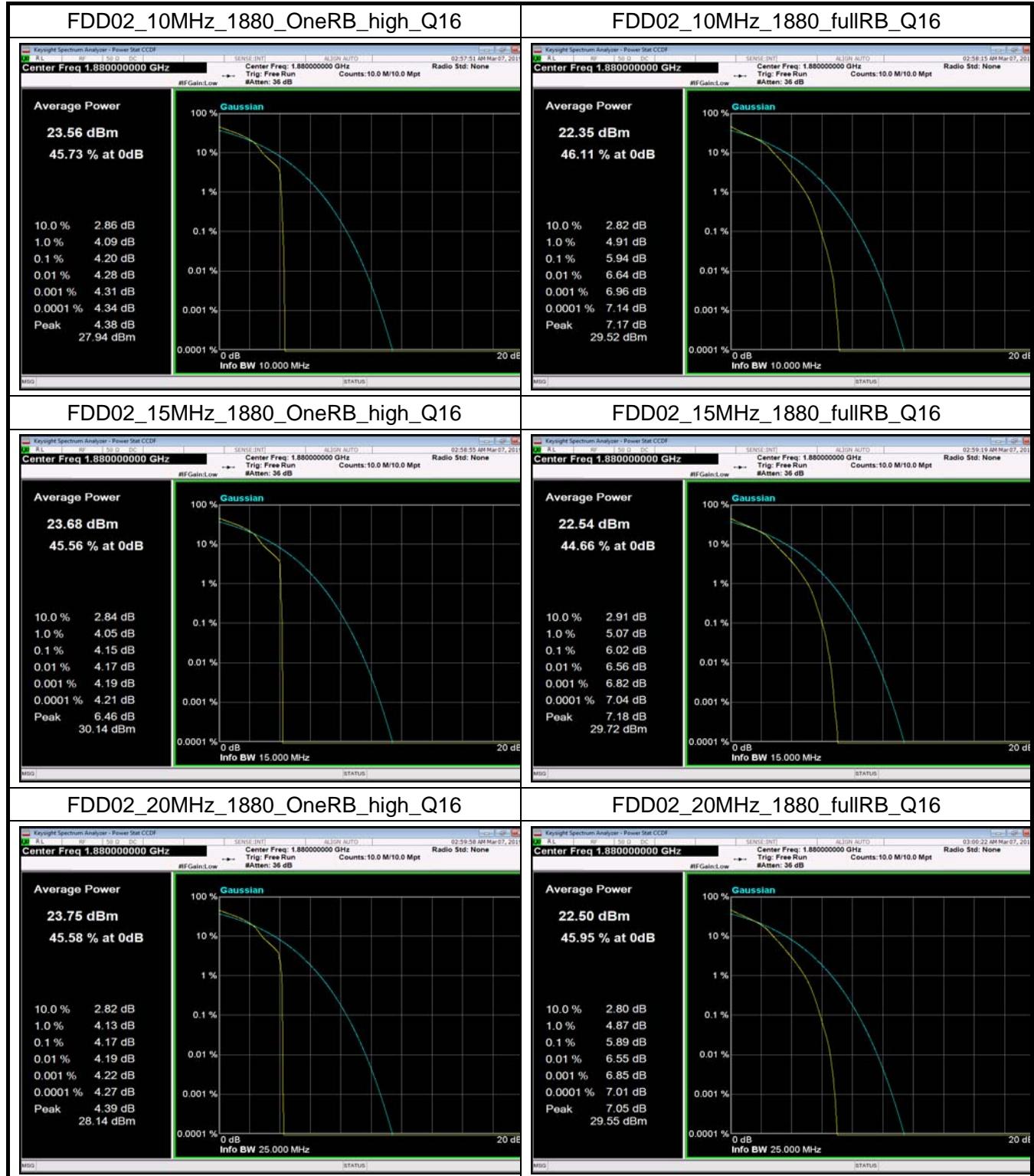
FDD66	HighRange	1.4	fullRB	Q16	6.23	13.00	Pass
FDD66	HighRange	3	OneRB_high	Q16	4.60	13.00	Pass
FDD66	HighRange	3	fullRB	Q16	6.02	13.00	Pass
FDD66	HighRange	5	OneRB_high	Q16	4.51	13.00	Pass
FDD66	HighRange	5	fullRB	Q16	5.95	13.00	Pass
FDD66	HighRange	10	OneRB_high	Q16	4.57	13.00	Pass
FDD66	HighRange	10	fullRB	Q16	5.94	13.00	Pass
FDD66	HighRange	15	OneRB_high	Q16	4.65	13.00	Pass
FDD66	HighRange	15	fullRB	Q16	5.96	13.00	Pass
FDD66	HighRange	20	OneRB_high	Q16	4.52	13.00	Pass
FDD66	HighRange	20	fullRB	Q16	5.85	13.00	Pass
FDD30	LowRange	5	OneRB_high	Q16	4.01	13.00	Pass
FDD30	LowRange	5	fullRB	Q16	5.95	13.00	Pass
FDD30	LowRange	10	OneRB_high	Q16	4.18	13.00	Pass
FDD30	LowRange	10	fullRB	Q16	5.95	13.00	Pass
FDD30	MidRange	5	OneRB_high	Q16	4.10	13.00	Pass
FDD30	MidRange	5	fullRB	Q16	5.99	13.00	Pass
FDD30	MidRange	10	OneRB_high	Q16	4.12	13.00	Pass
FDD30	MidRange	10	fullRB	Q16	5.96	13.00	Pass
FDD30	HighRange	5	OneRB_high	Q16	4.05	13.00	Pass
FDD30	HighRange	5	fullRB	Q16	5.98	13.00	Pass
FDD30	HighRange	10	OneRB_high	Q16	4.24	13.00	Pass
FDD30	HighRange	10	fullRB	Q16	5.96	13.00	Pass

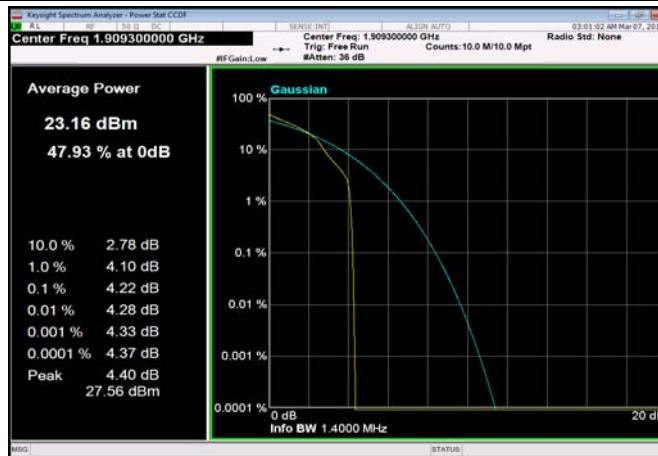
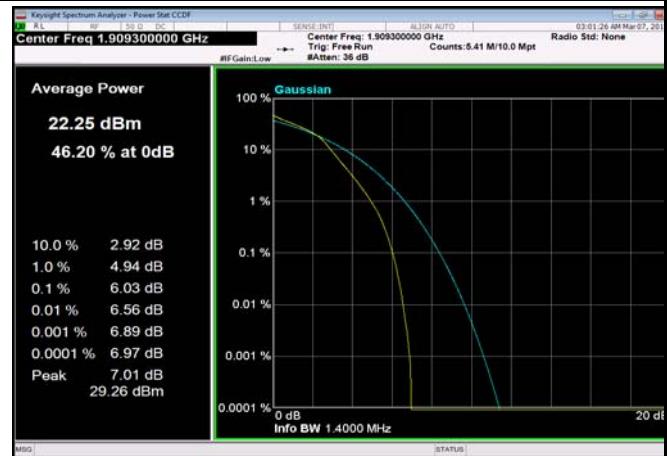
FDD02_1.4MHz_1850.7_OneRB_high_Q16

FDD02_1.4MHz_1850.7_fullRB_Q16

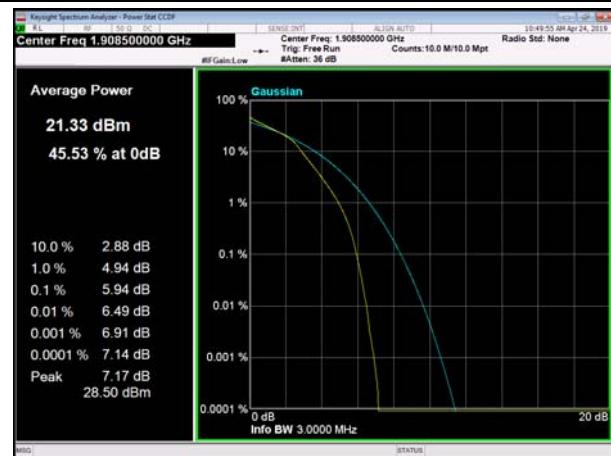
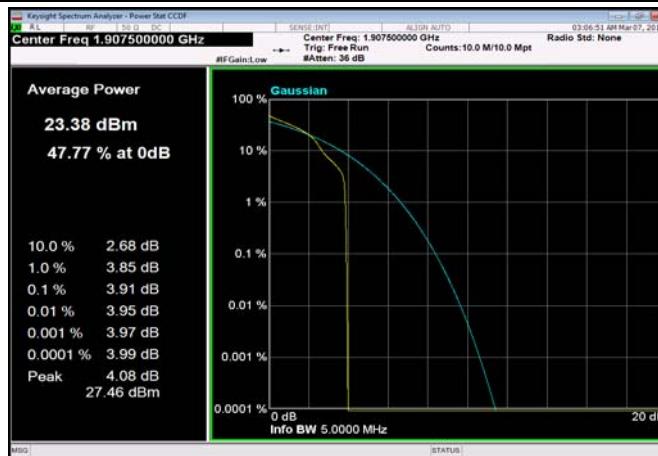
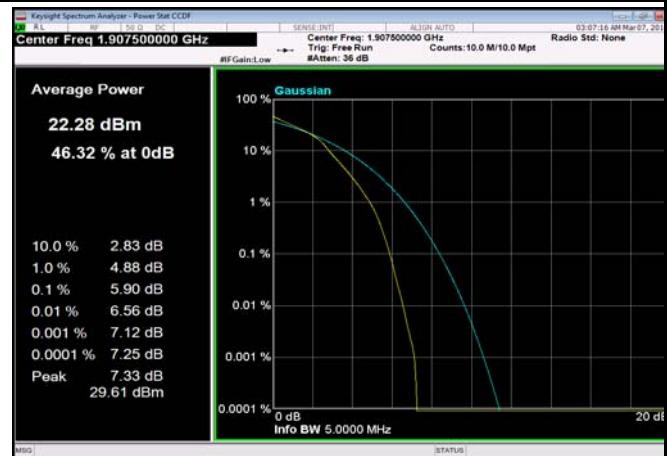
FDD02_3MHz_1851.5_OneRB_high_Q16

FDD02_3MHz_1851.5_fullRB_Q16

FDD02_5MHz_1852.5_OneRB_high_Q16

FDD02_5MHz_1852.5_fullRB_Q16


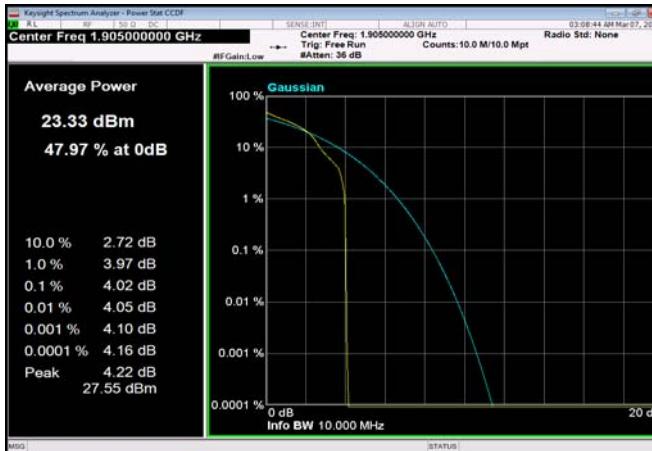
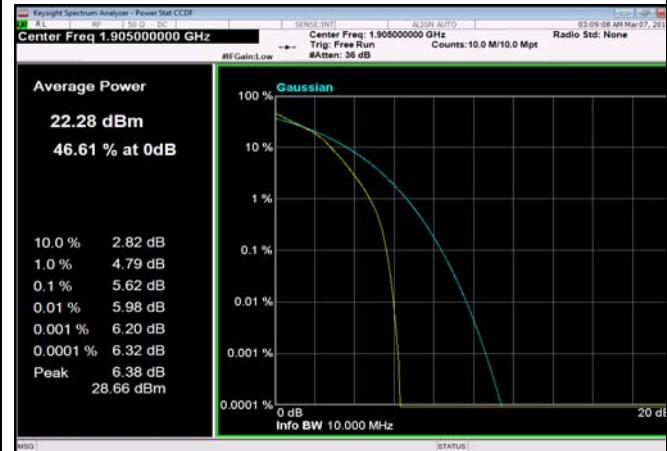
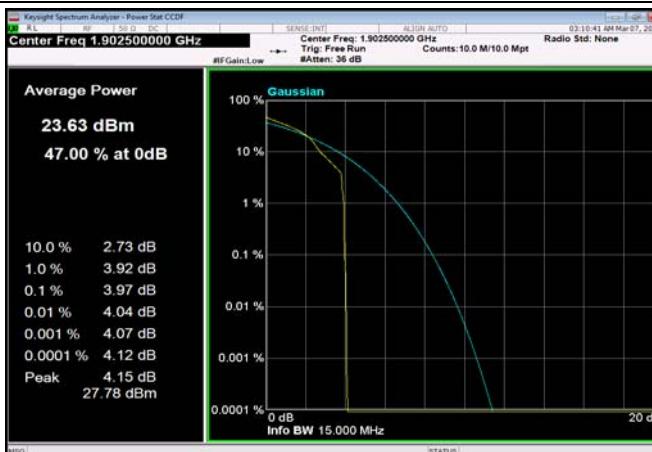
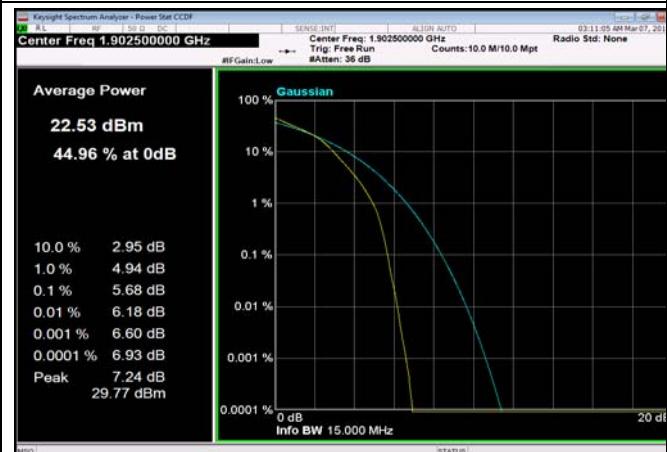
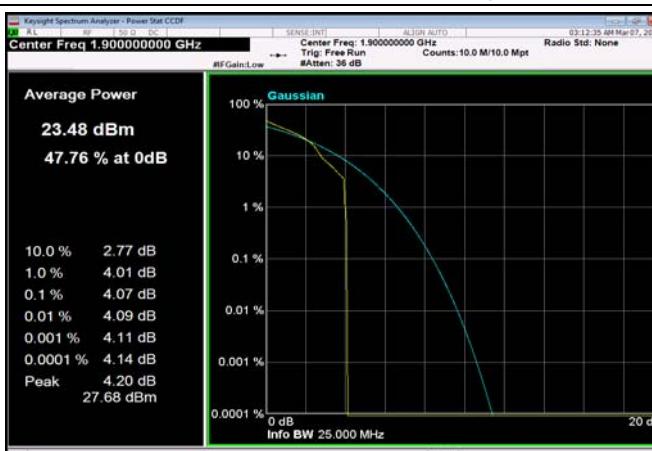
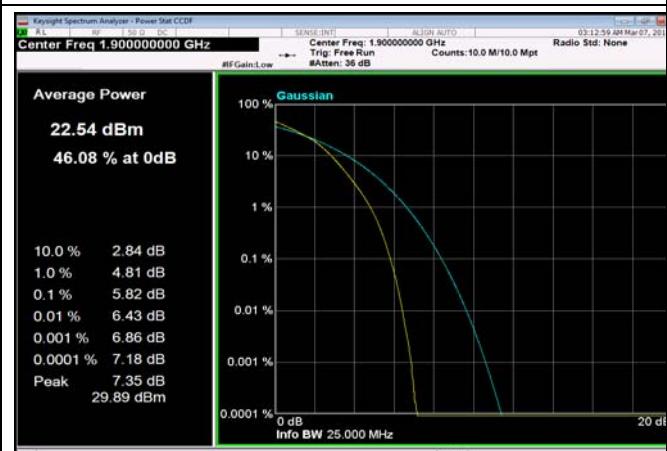
FDD02_10MHz_1855_OneRB_high_Q16

FDD02_10MHz_1855_fullRB_Q16

FDD02_15MHz_1857.5_OneRB_high_Q16

FDD02_15MHz_1857.5_fullRB_Q16

FDD02_20MHz_1860_OneRB_high_Q16

FDD02_20MHz_1860_fullRB_Q16


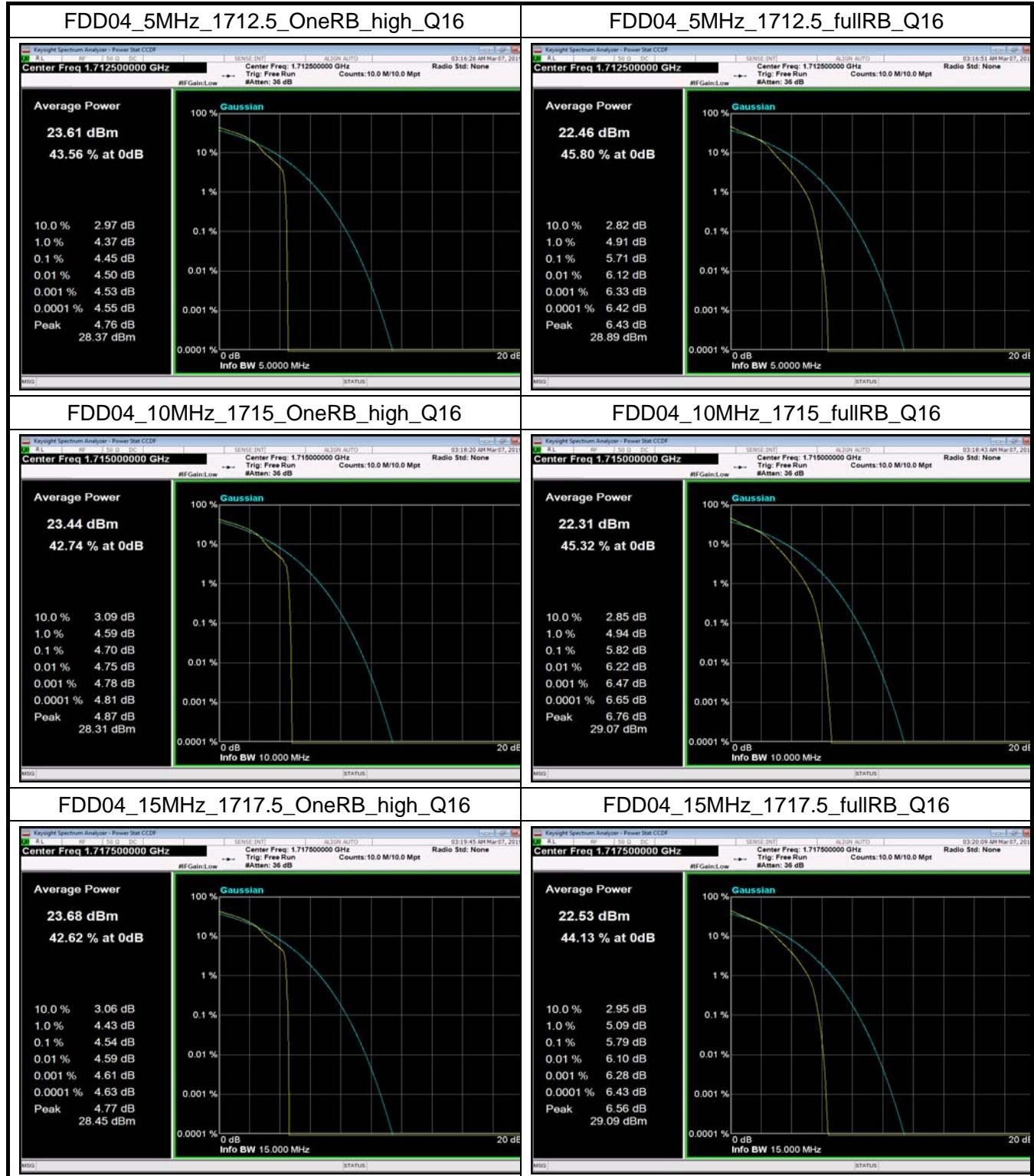
FDD02_1.4MHz_1880_OneRB_high_Q16

FDD02_1.4MHz_1880_fullRB_Q16

FDD02_3MHz_1880_OneRB_high_Q16

FDD02_3MHz_1880_fullRB_Q16

FDD02_5MHz_1880_OneRB_high_Q16

FDD02_5MHz_1880_fullRB_Q16


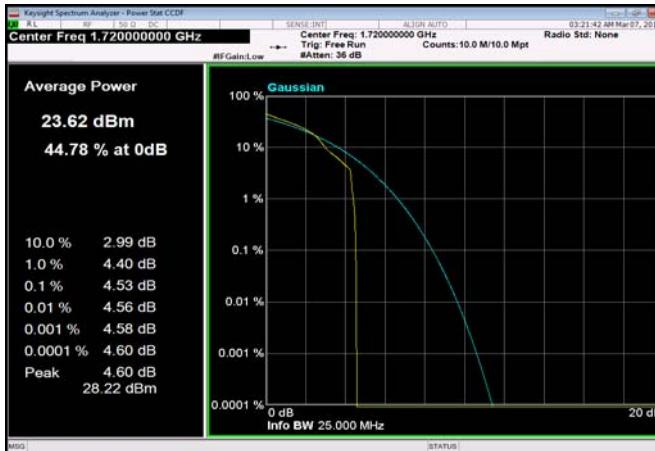
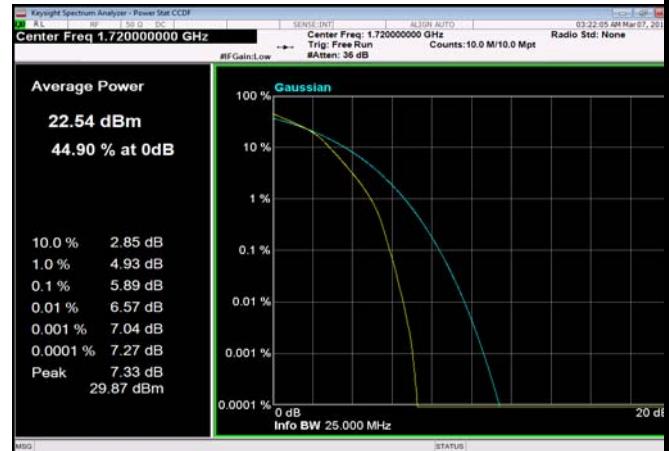
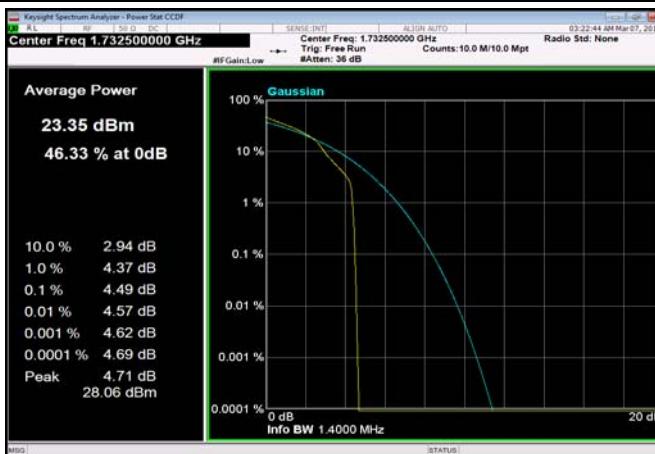
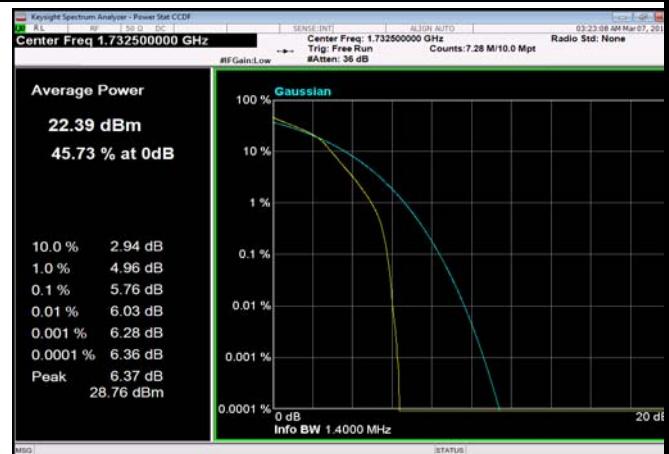
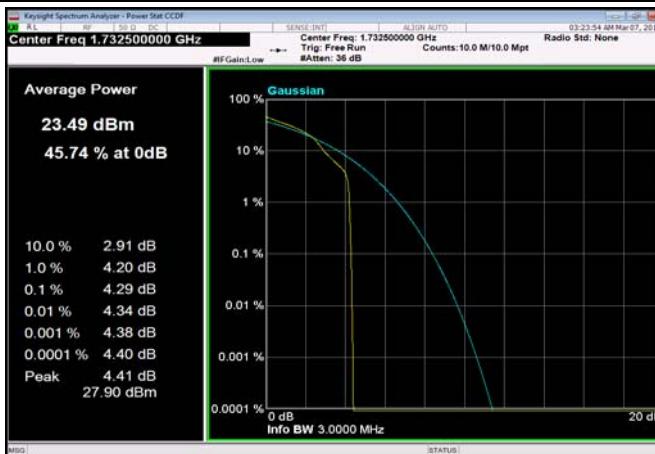


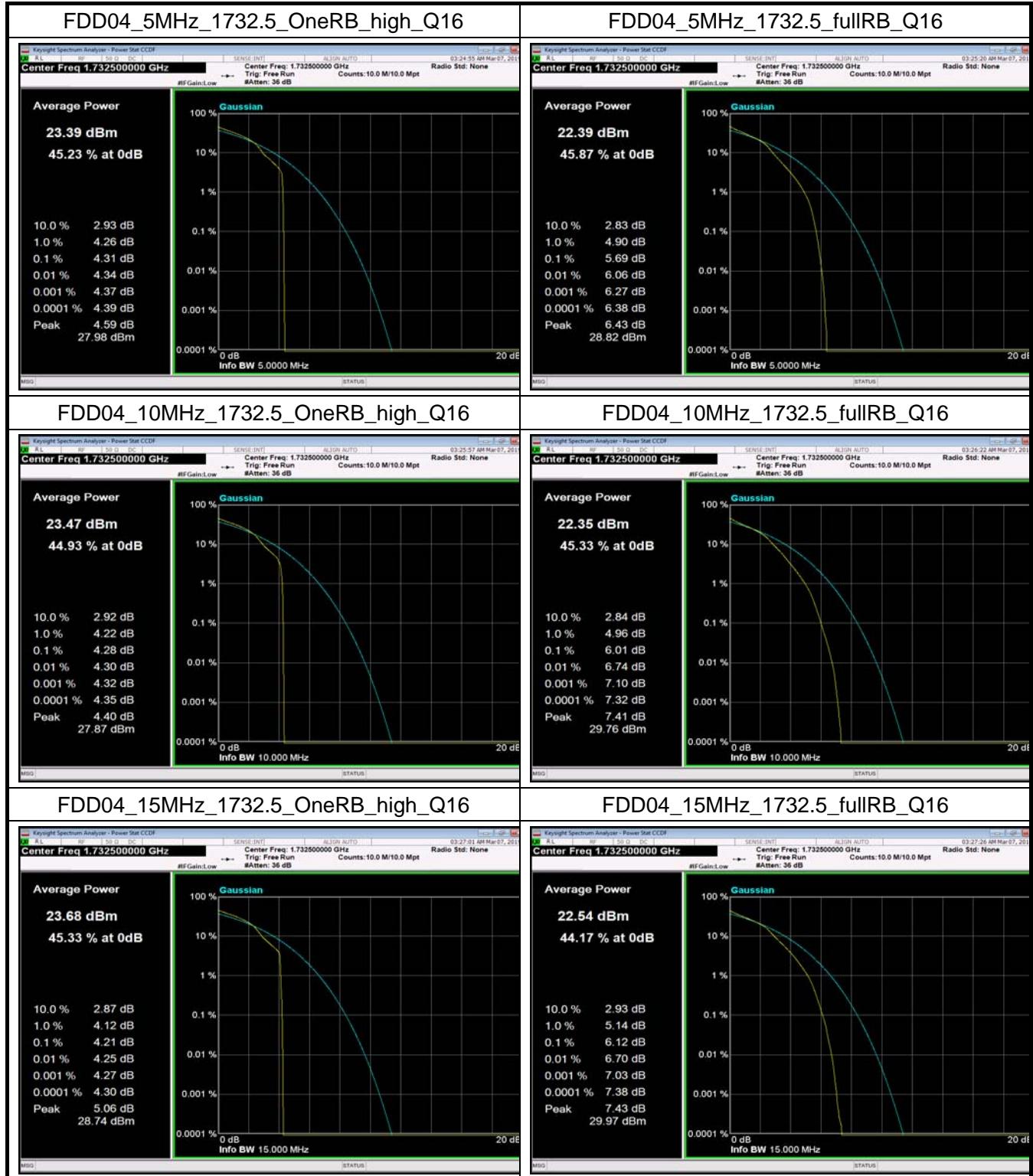
FDD02_1.4MHz_1909.3_OneRB_high_Q16

FDD02_1.4MHz_1909.3_fullRB_Q16

FDD02_3MHz_1908.5_OneRB_high_Q16

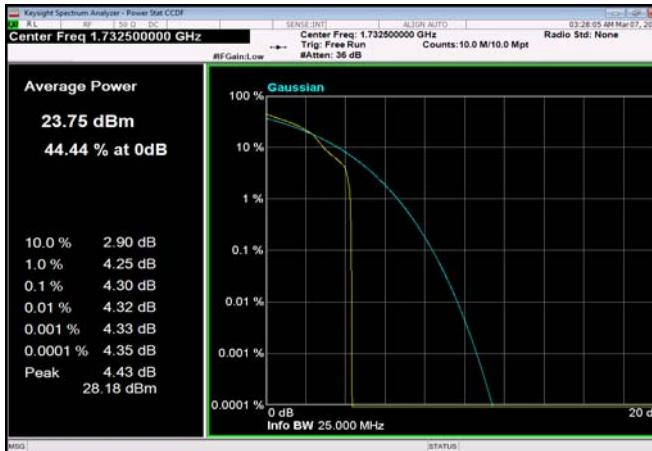
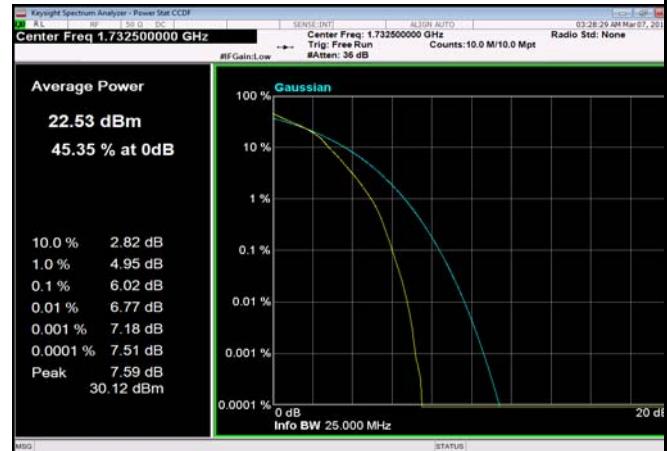
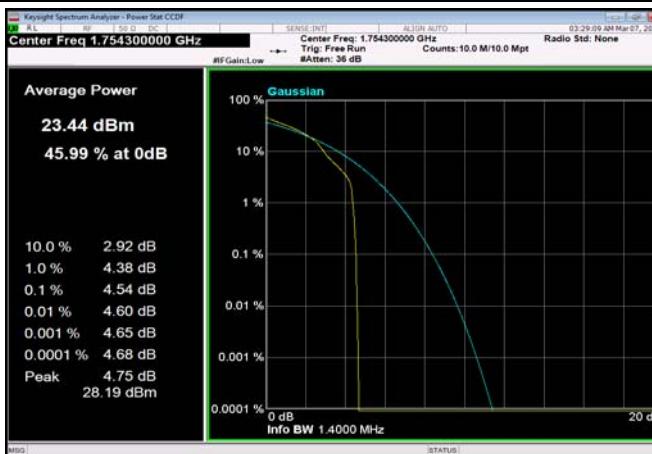
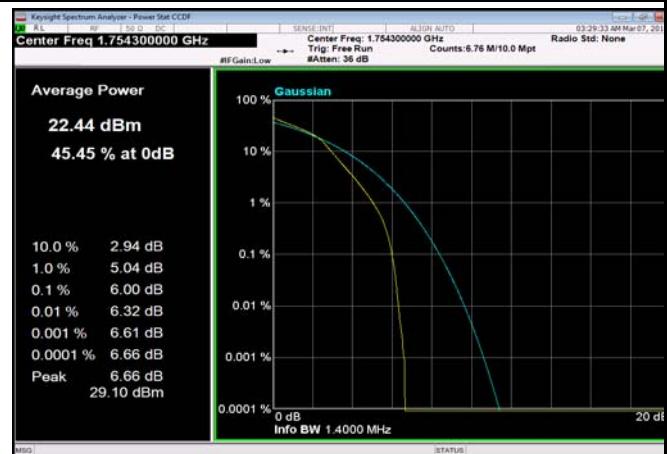
FDD02_3MHz_1908.5_fullRB_Q16

FDD02_5MHz_1907.5_OneRB_high_Q16

FDD02_5MHz_1907.5_fullRB_Q16


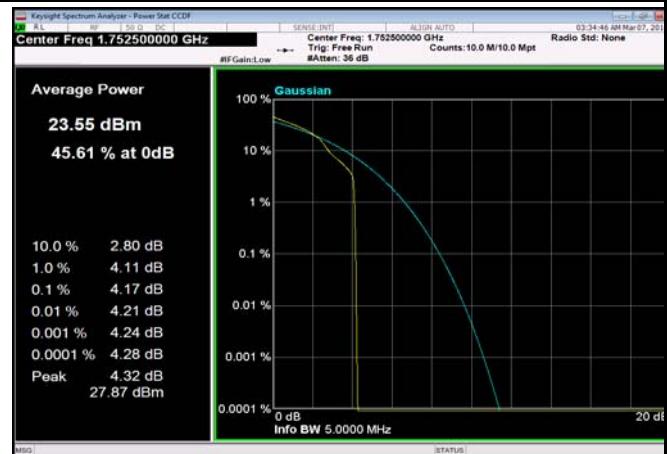
FDD02_10MHz_1905_OneRB_high_Q16

FDD02_10MHz_1905_fullRB_Q16

FDD02_15MHz_1902.5_OneRB_high_Q16

FDD02_15MHz_1902.5_fullRB_Q16

FDD02_20MHz_1900_OneRB_high_Q16

FDD02_20MHz_1900_fullRB_Q16


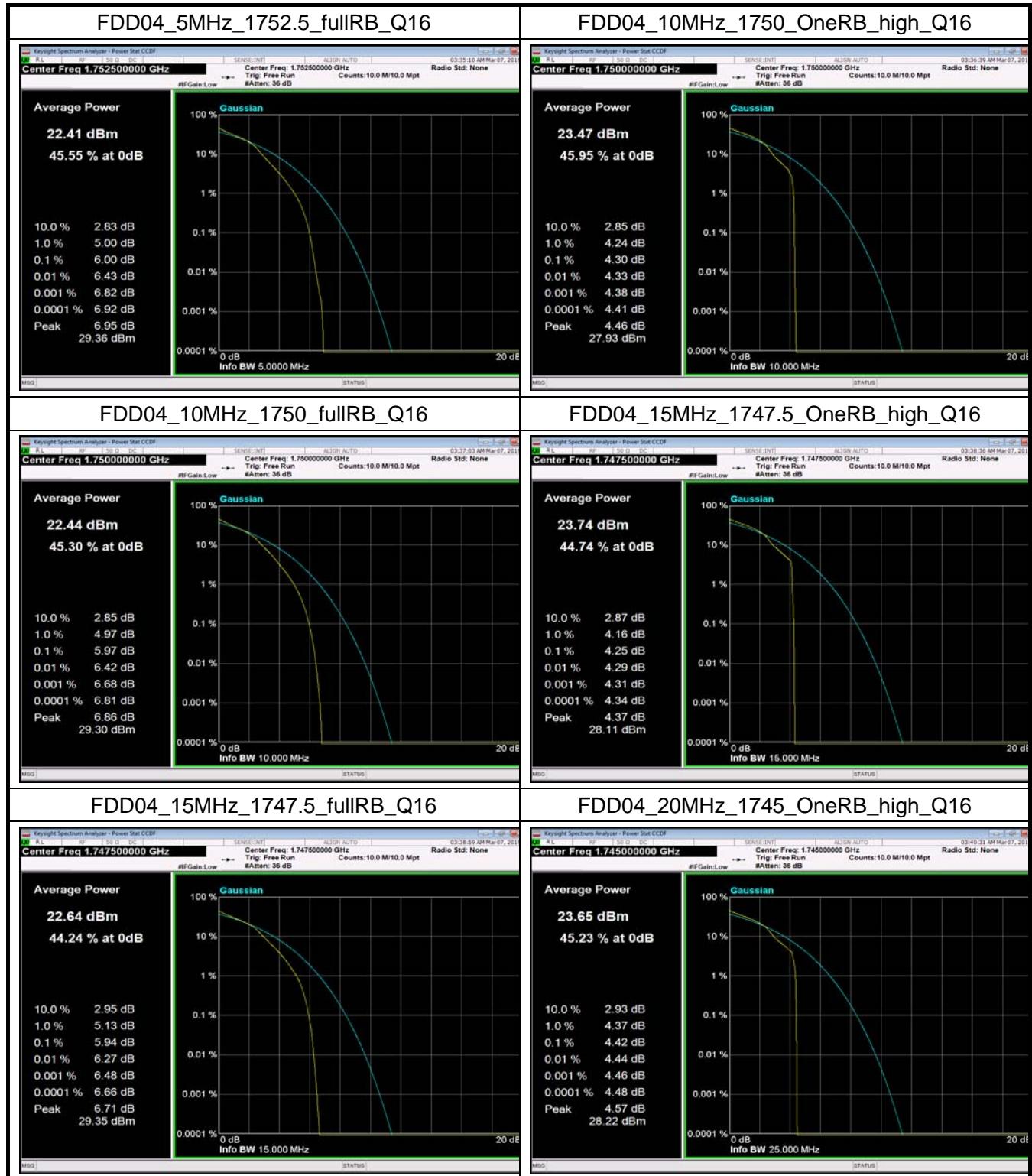


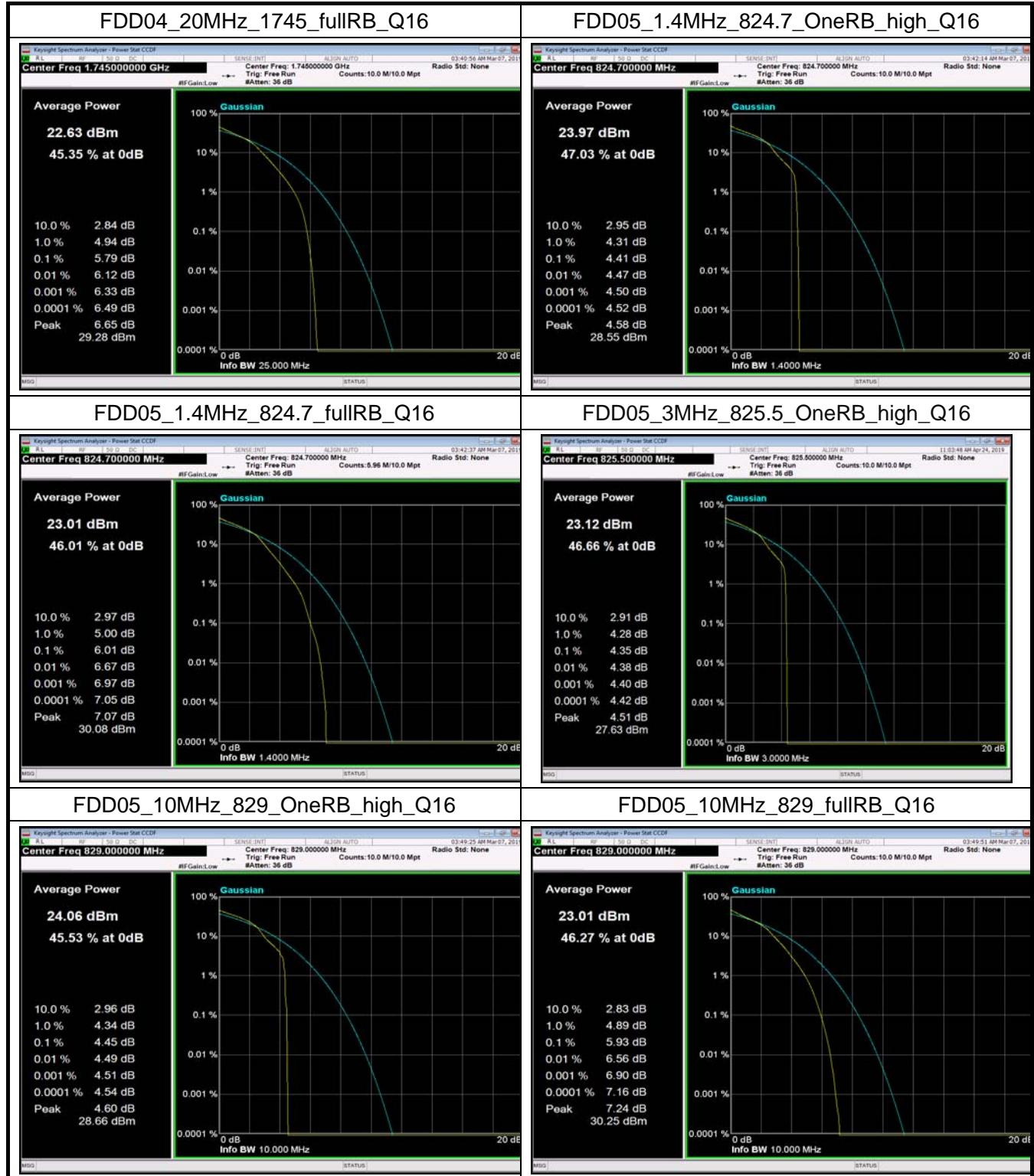
FDD04_20MHz_1720_OneRB_high_Q16

FDD04_20MHz_1720_fullRB_Q16

FDD04_1.4MHz_1732.5_OneRB_high_Q16

FDD04_1.4MHz_1732.5_fullRB_Q16

FDD04_3MHz_1732.5_OneRB_high_Q16

FDD04_3MHz_1732.5_fullRB_Q16

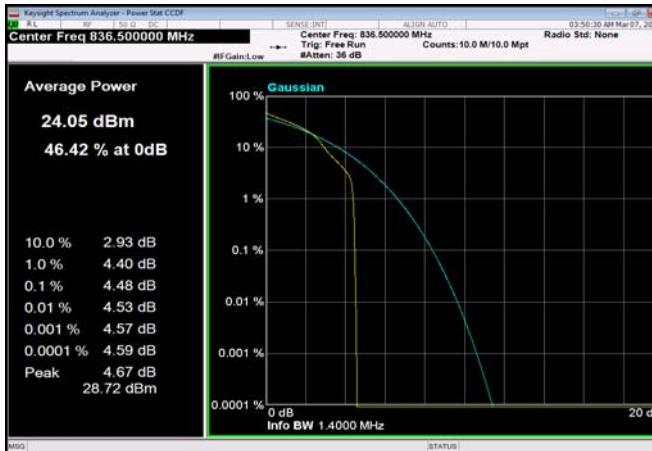
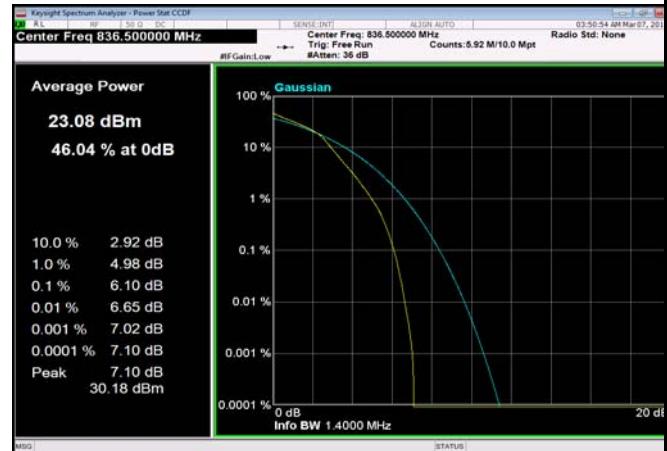
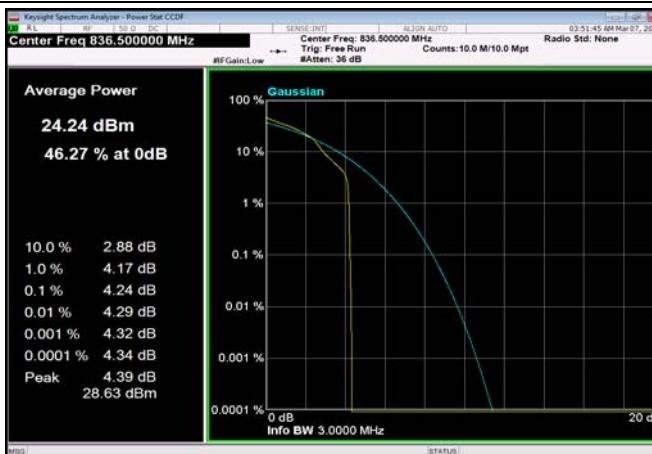
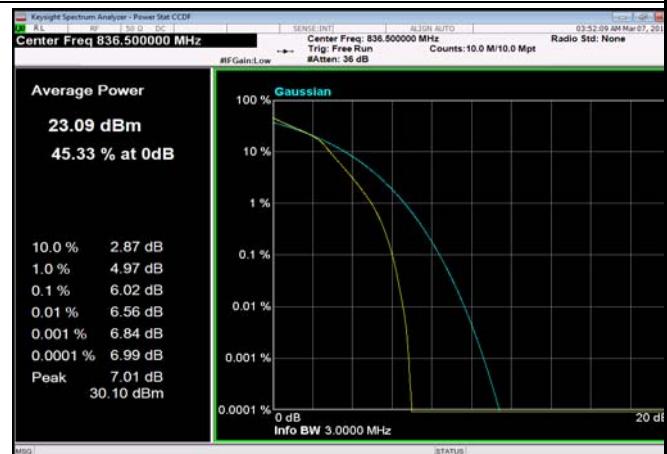
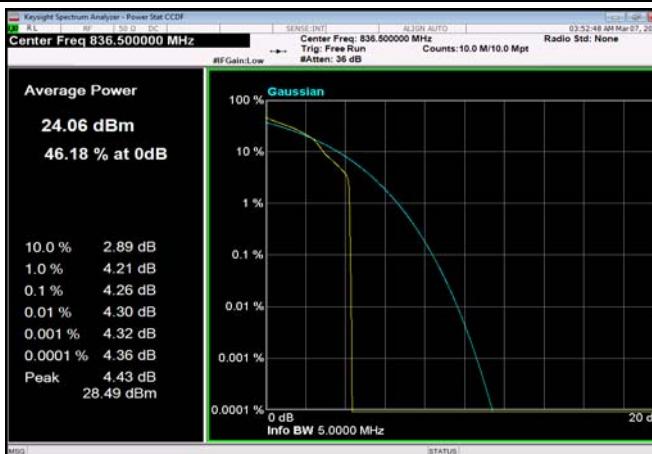
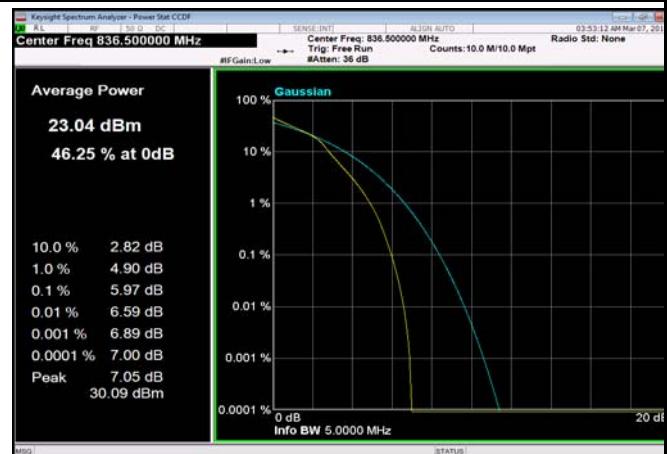



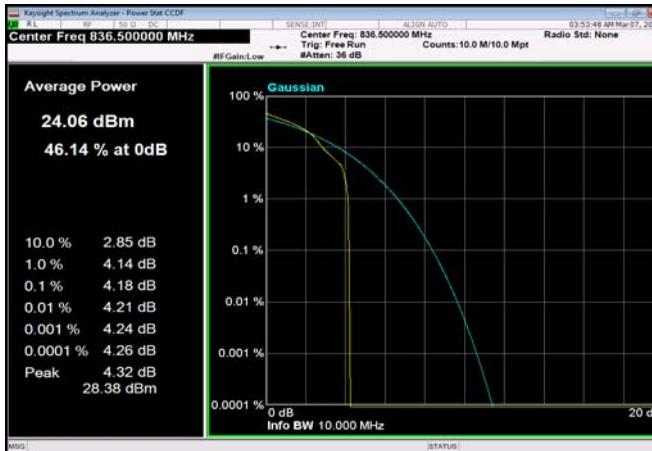
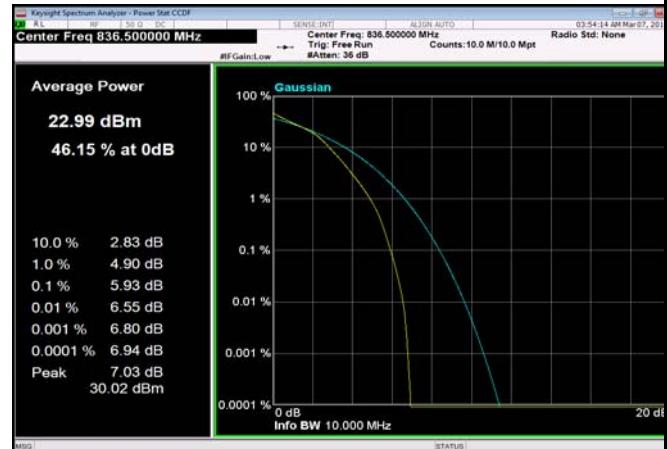
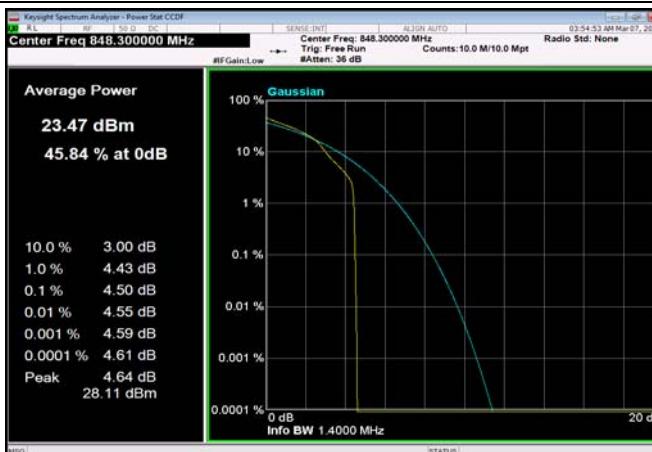
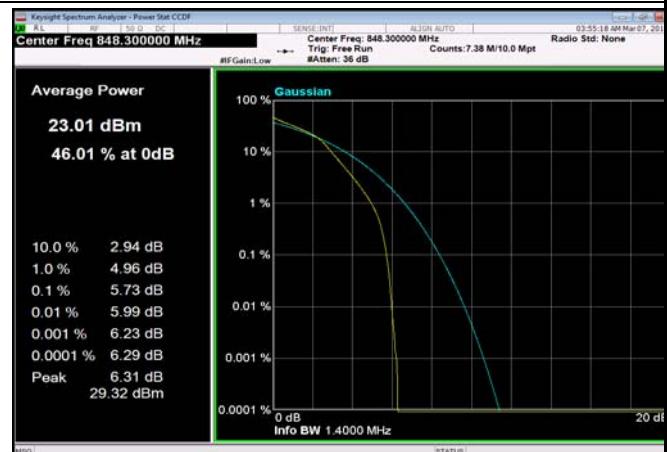
FDD04_20MHz_1732.5_OneRB_high_Q16

FDD04_20MHz_1732.5_fullRB_Q16

FDD04_1.4MHz_1754.3_OneRB_high_Q16

FDD04_1.4MHz_1754.3_fullRB_Q16

FDD04_3MHz_1753.5_OneRB_high_Q16

FDD04_5MHz_1752.5_OneRB_high_Q16


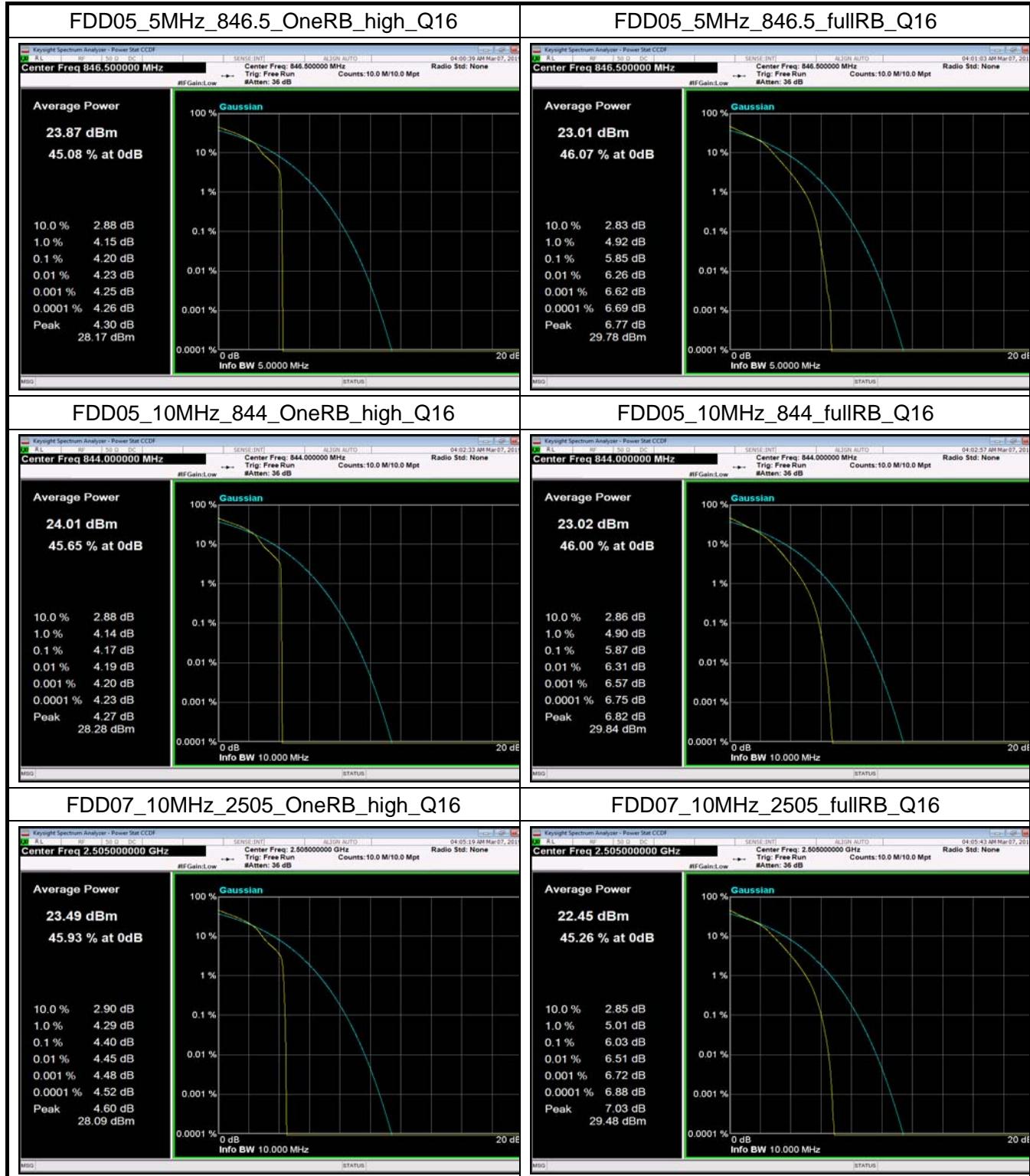


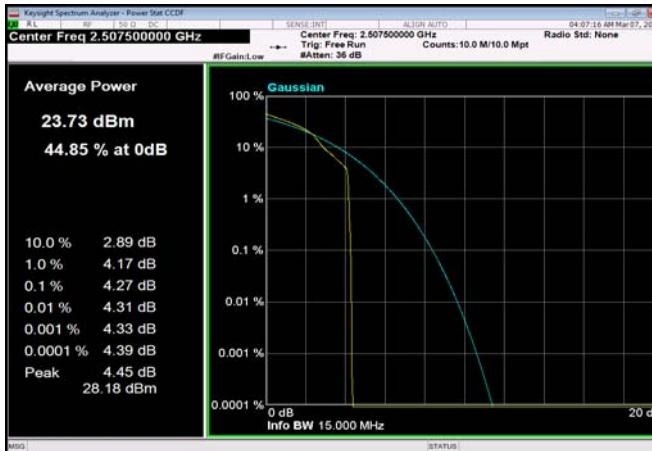
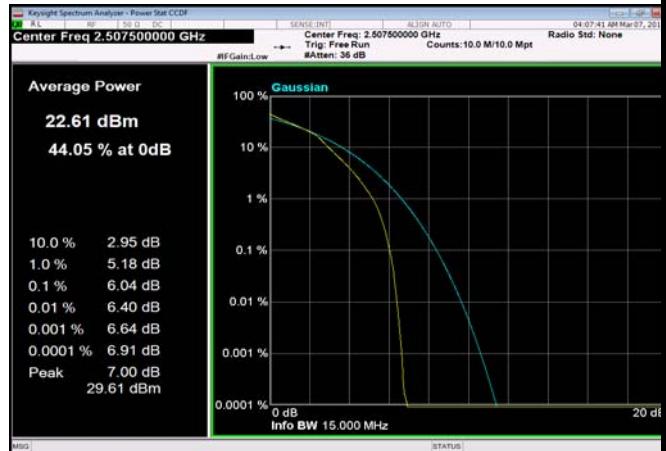
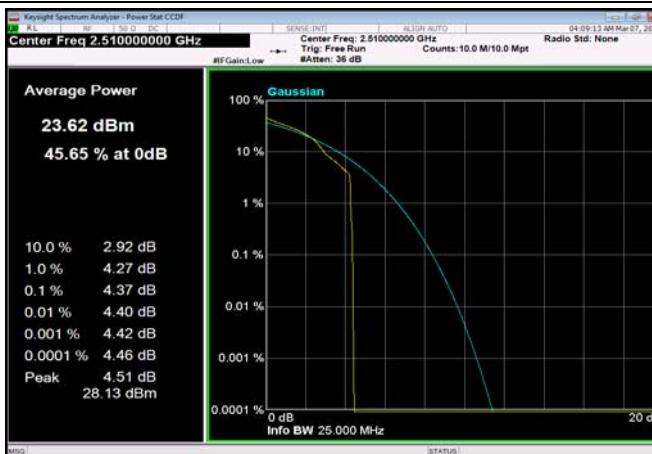
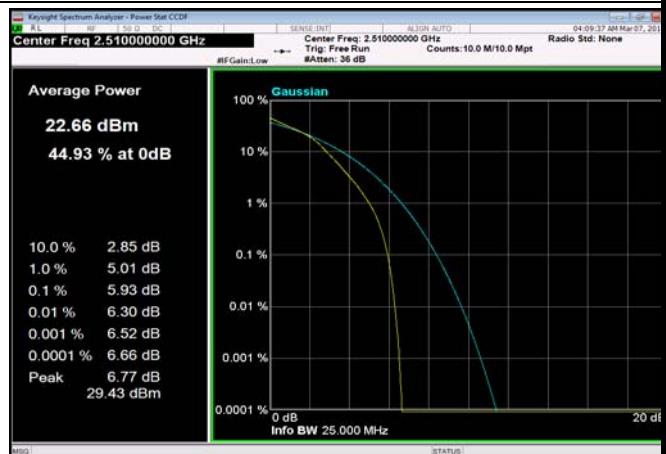
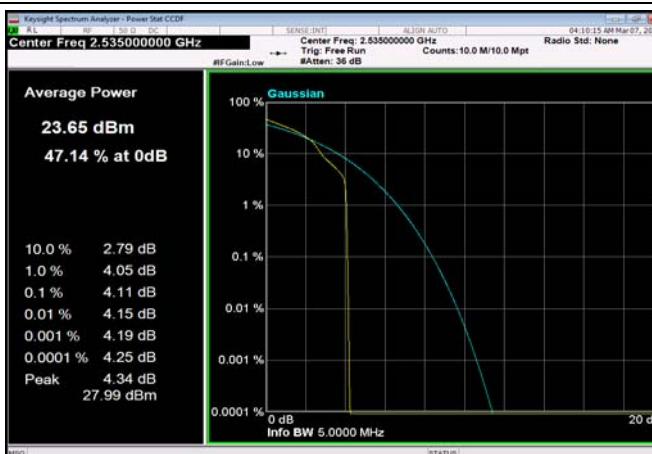
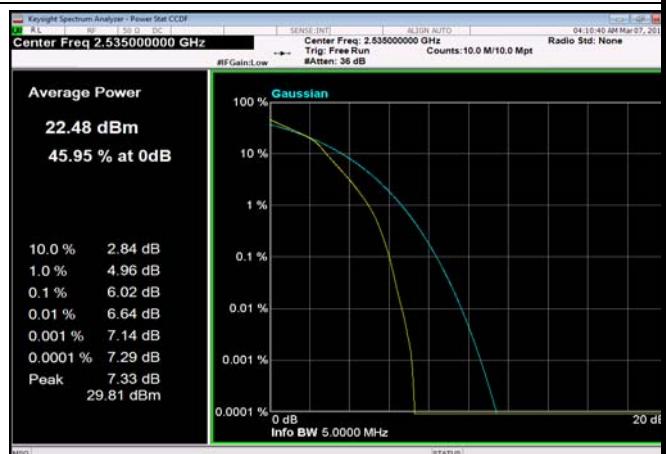


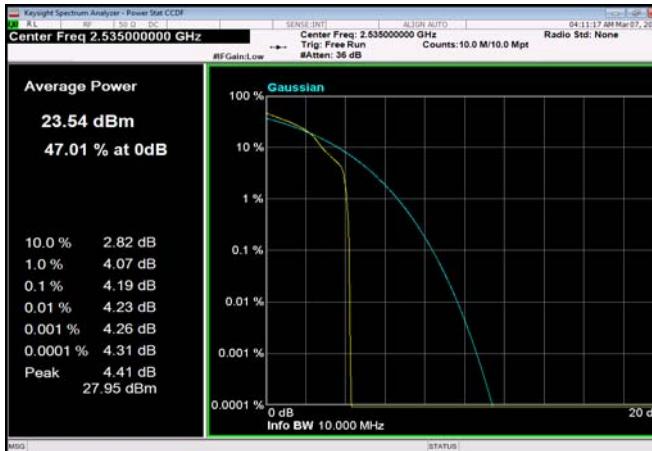
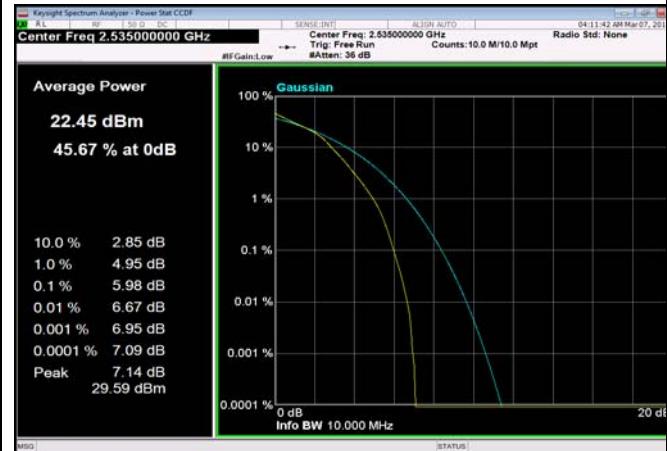
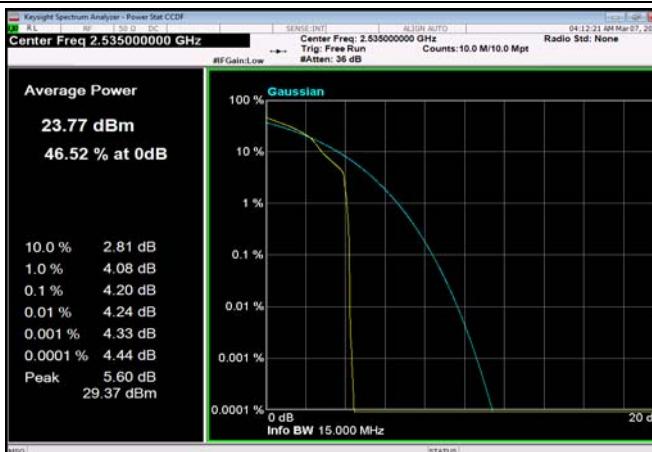
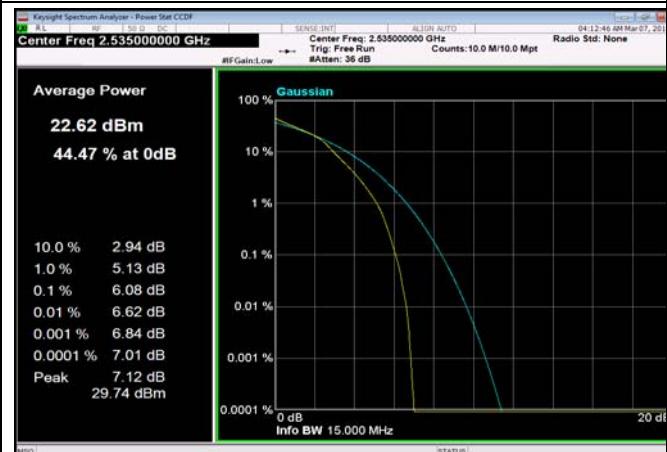
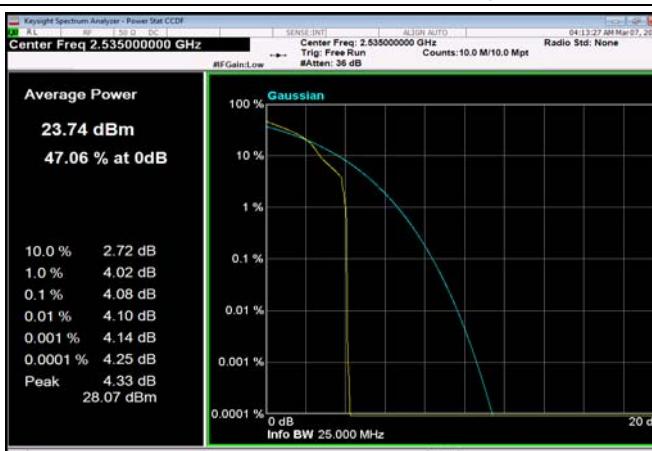
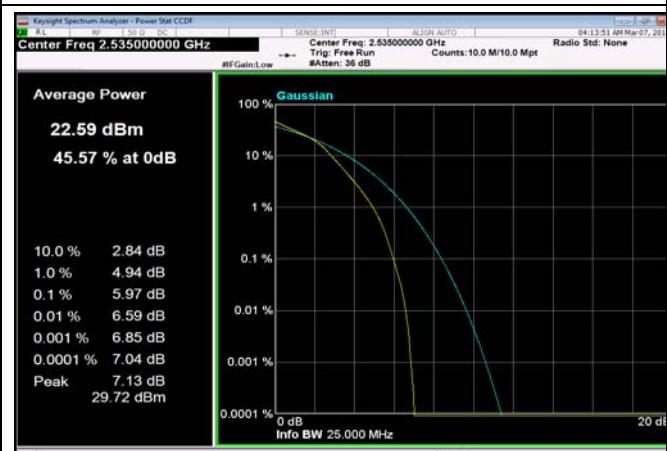
FDD05_1.4MHz_836.5_OneRB_high_Q16

FDD05_1.4MHz_836.5_fullRB_Q16

FDD05_3MHz_836.5_OneRB_high_Q16

FDD05_3MHz_836.5_fullRB_Q16

FDD05_5MHz_836.5_OneRB_high_Q16

FDD05_5MHz_836.5_fullRB_Q16


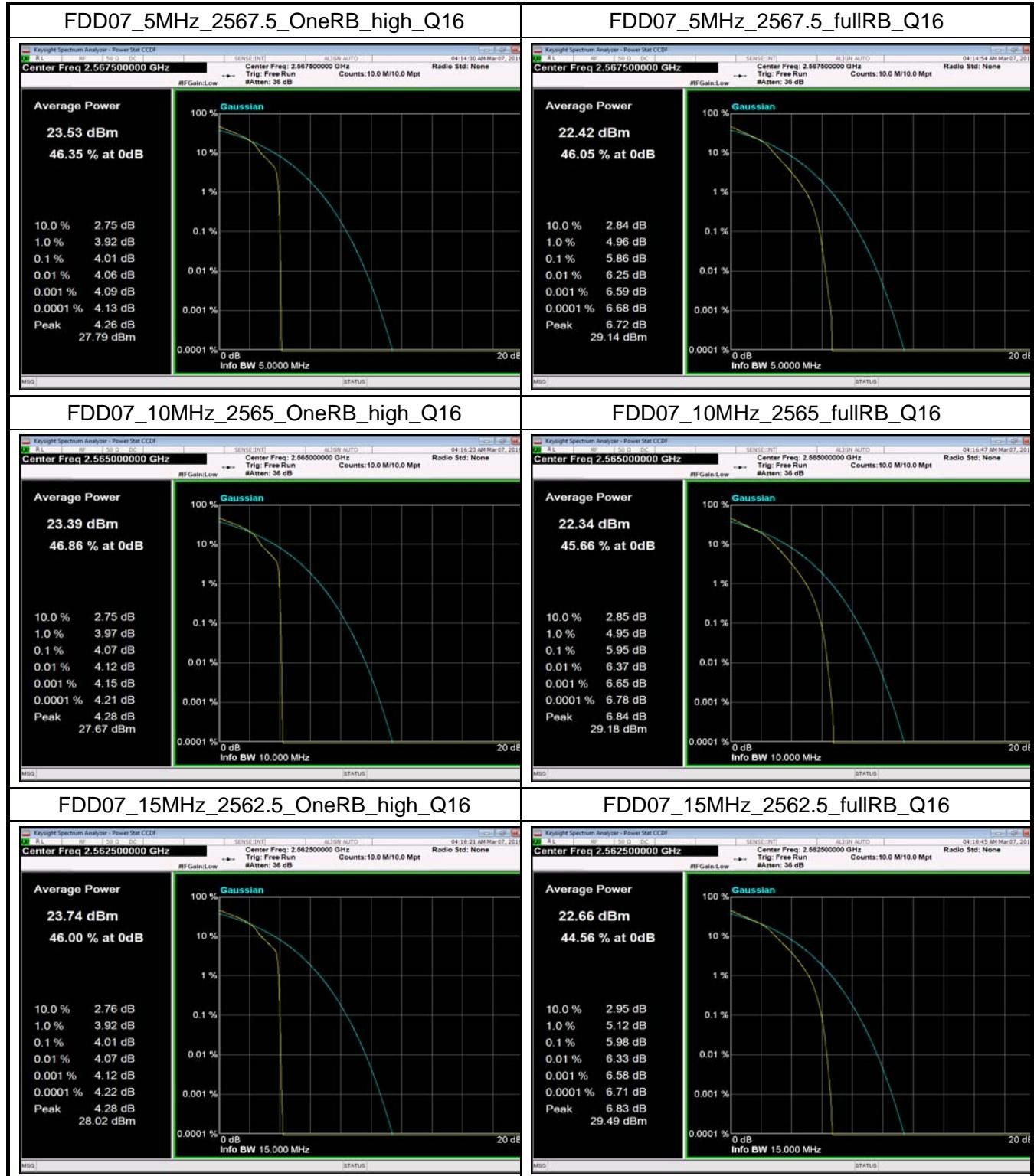
FDD05_10MHz_836.5_OneRB_high_Q16

FDD05_10MHz_836.5_fullRB_Q16

FDD05_1.4MHz_848.3_OneRB_high_Q16

FDD05_1.4MHz_848.3_fullRB_Q16

FDD05_3MHz_847.5_OneRB_high_Q16

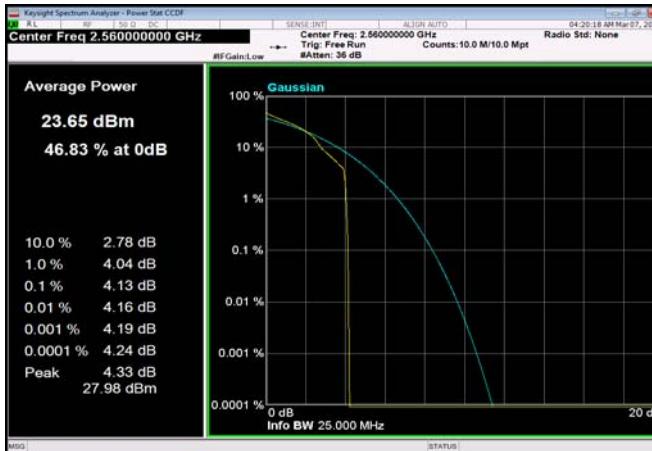
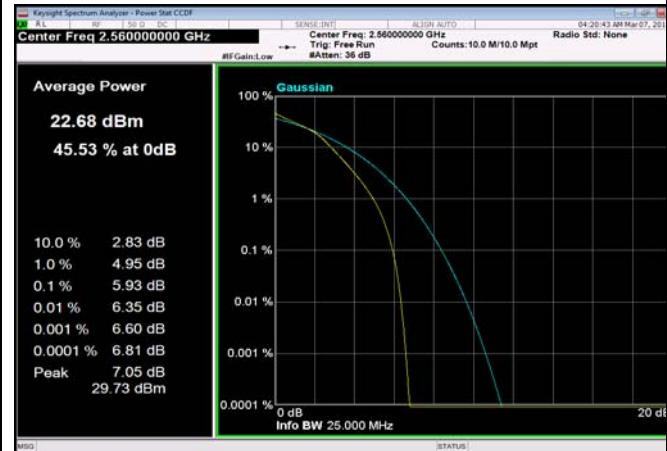
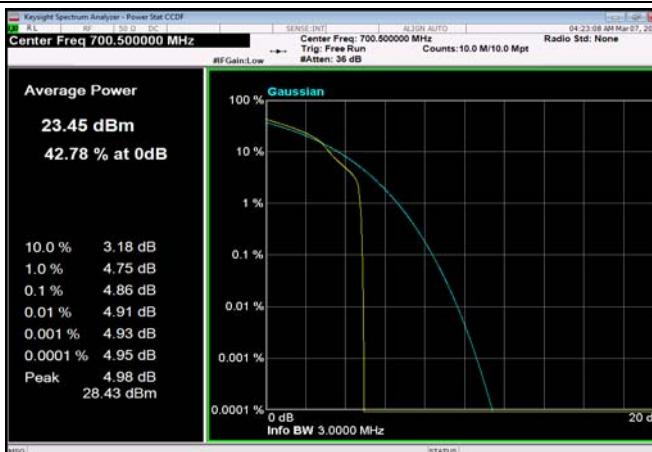
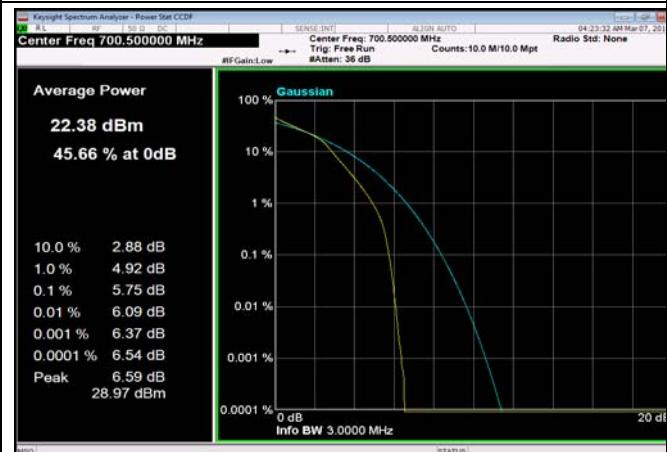
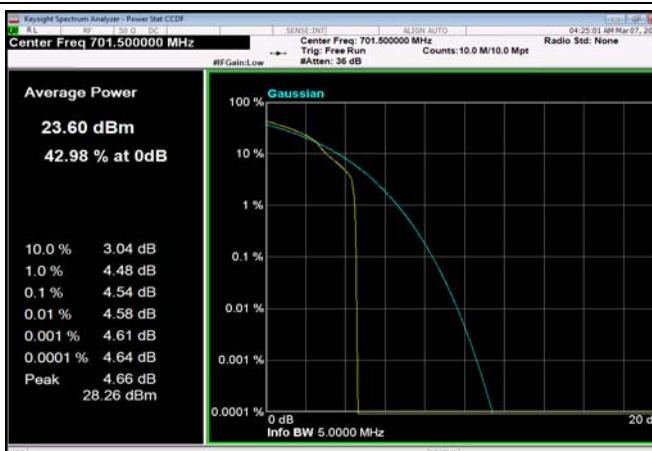
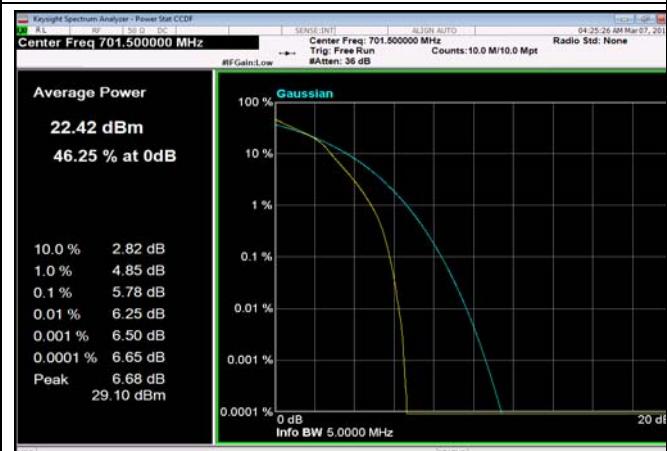
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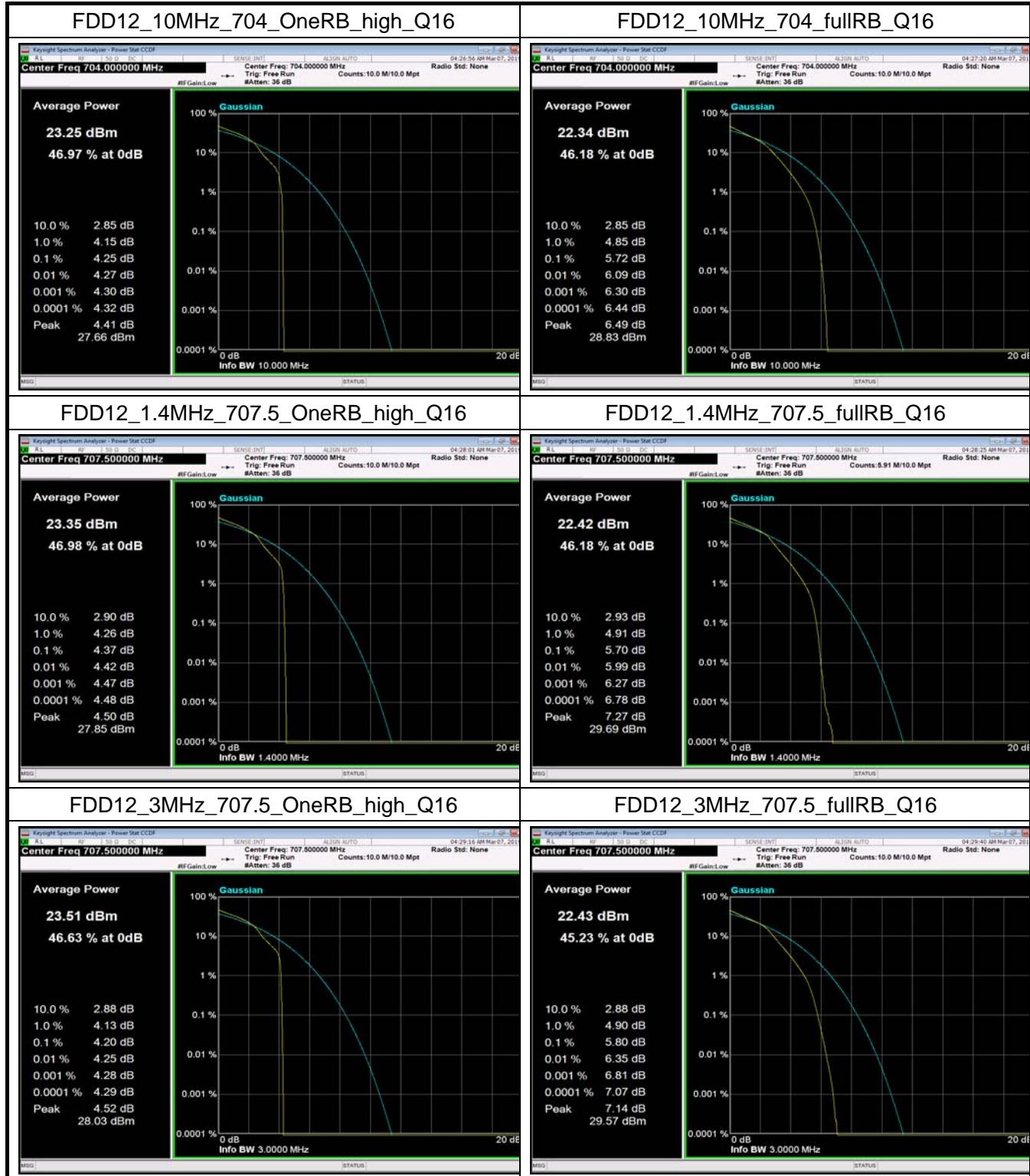



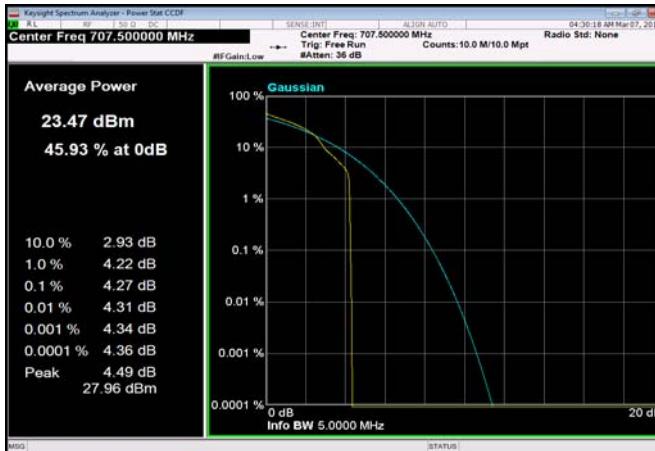
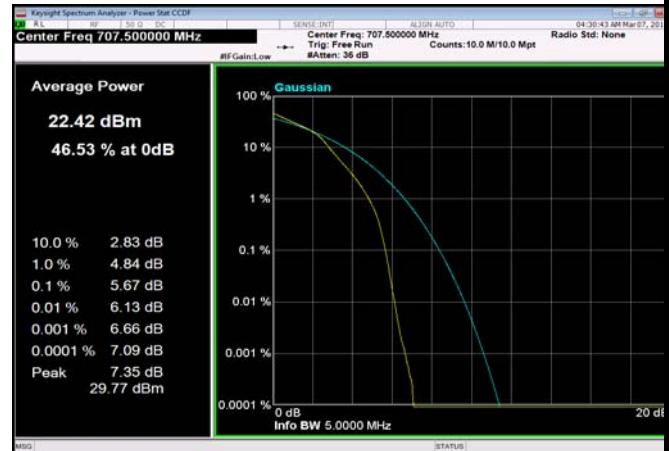
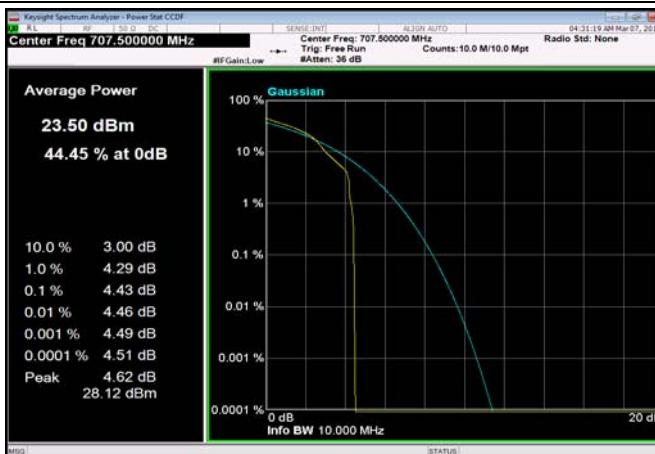
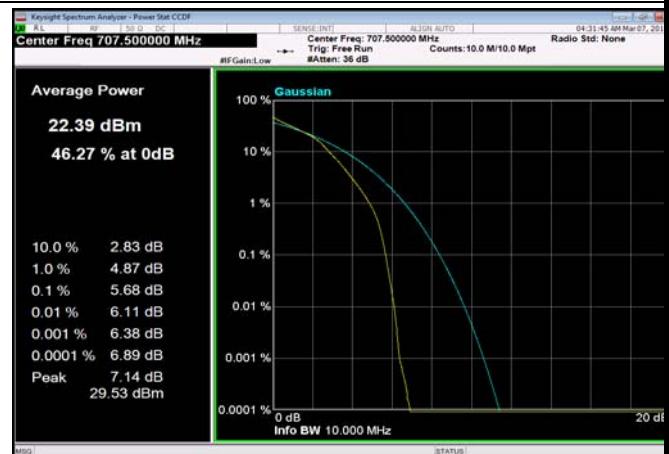
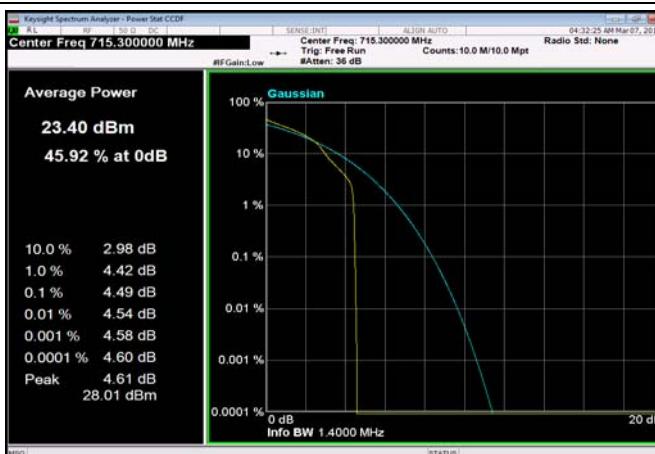
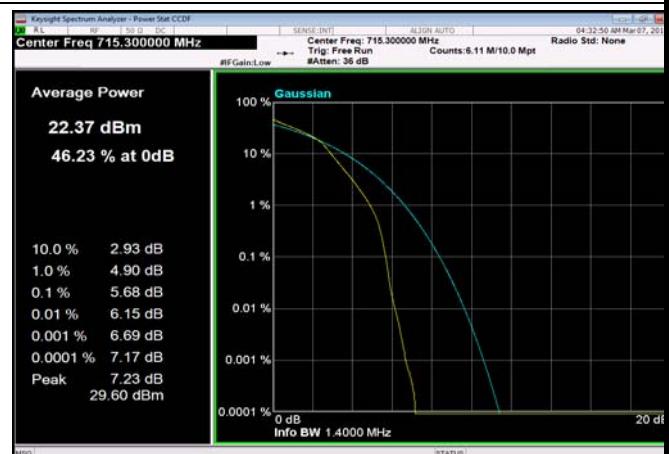
FDD07_15MHz_2507.5_OneRB_high_Q16

FDD07_15MHz_2507.5_fullRB_Q16

FDD07_20MHz_2510_OneRB_high_Q16

FDD07_20MHz_2510_fullRB_Q16

FDD07_5MHz_2535_OneRB_high_Q16

FDD07_5MHz_2535_fullRB_Q16


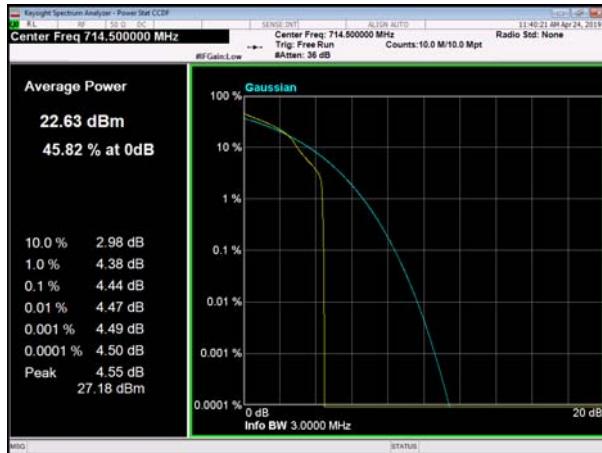
FDD07_10MHz_2535_OneRB_high_Q16

FDD07_10MHz_2535_fullRB_Q16

FDD07_15MHz_2535_OneRB_high_Q16

FDD07_15MHz_2535_fullRB_Q16

FDD07_20MHz_2535_OneRB_high_Q16

FDD07_20MHz_2535_fullRB_Q16


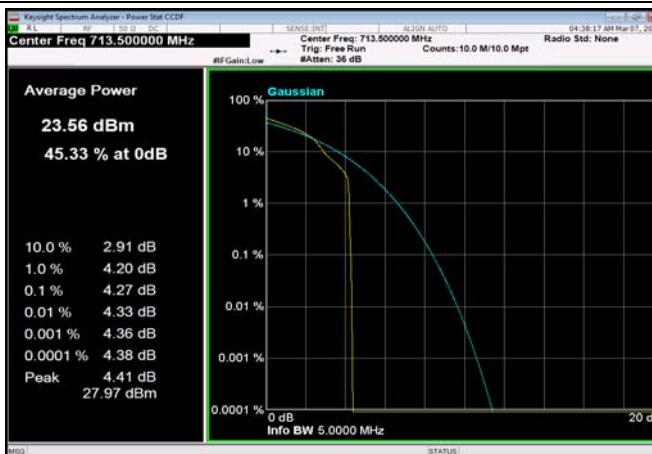
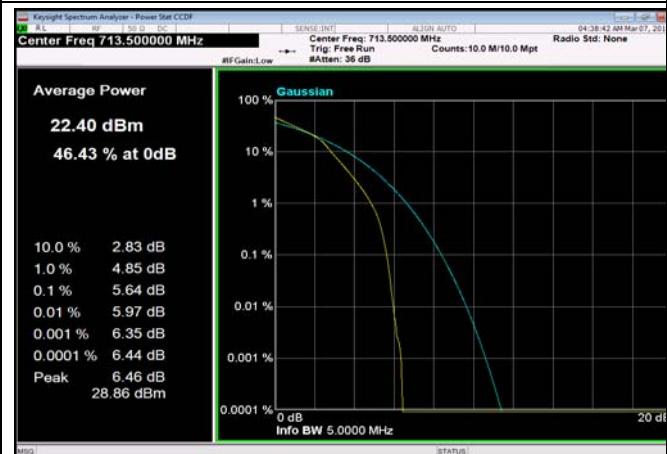
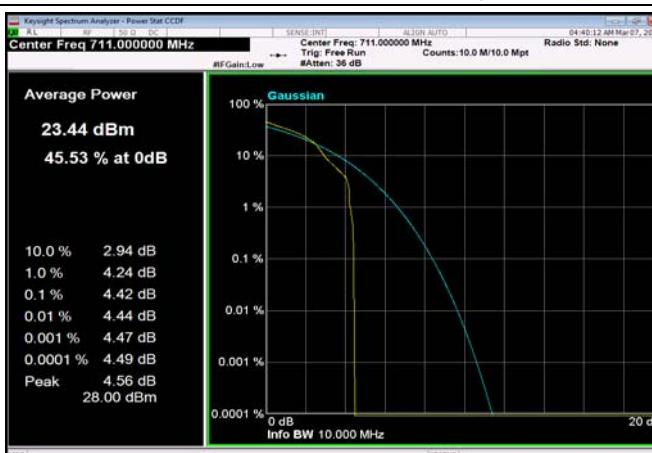
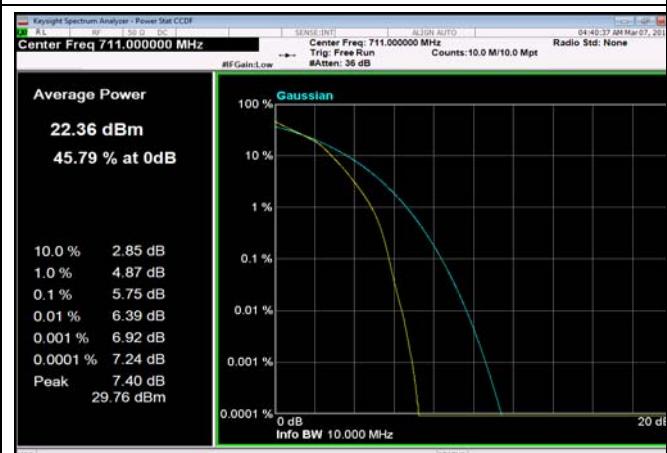


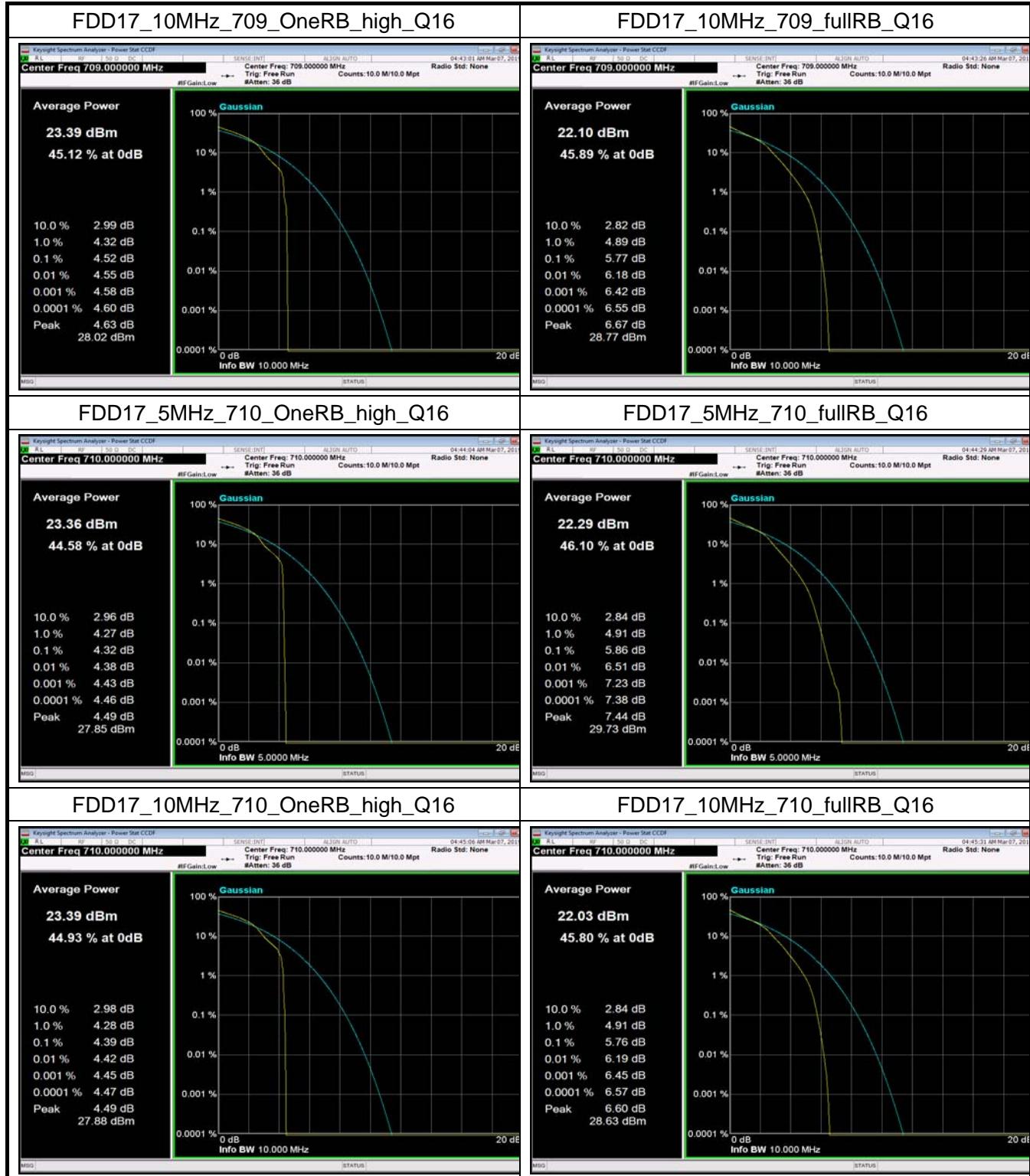
FDD07_20MHz_2560_OneRB_high_Q16

FDD07_20MHz_2560_fullRB_Q16

FDD12_3MHz_700.5_OneRB_high_Q16

FDD12_3MHz_700.5_fullRB_Q16

FDD12_5MHz_701.5_OneRB_high_Q16

FDD12_5MHz_701.5_fullRB_Q16


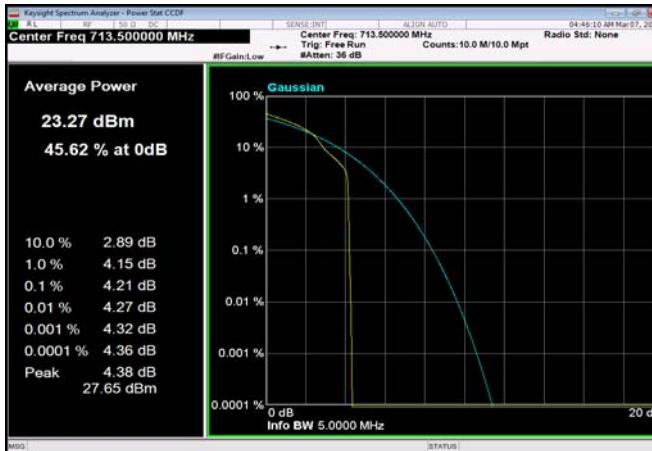
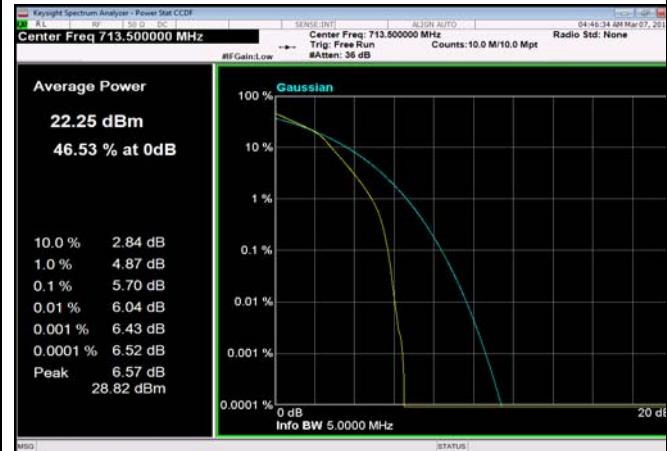
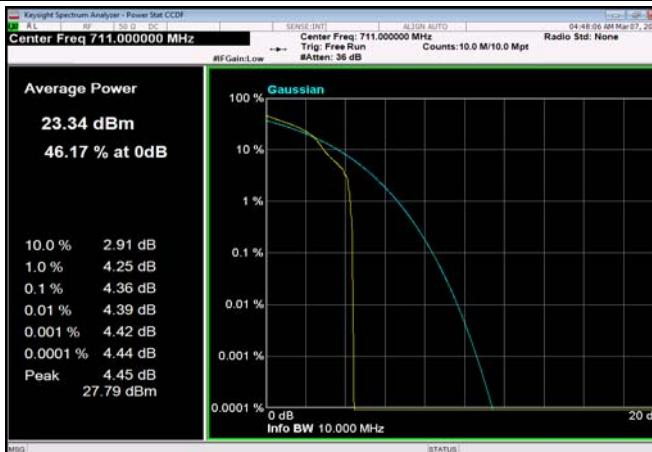
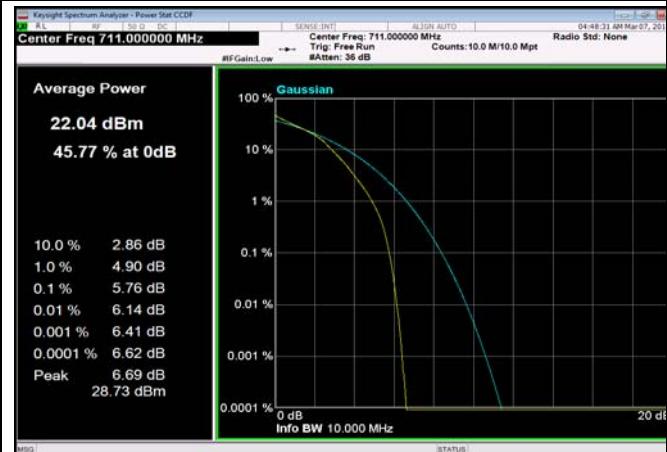


FDD12_5MHz_707.5_OneRB_high_Q16

FDD12_5MHz_707.5_fullRB_Q16

FDD12_10MHz_707.5_OneRB_high_Q16

FDD12_10MHz_707.5_fullRB_Q16

FDD12_1.4MHz_715.3_OneRB_high_Q16

FDD12_1.4MHz_715.3_fullRB_Q16


FDD12_3MHz_714.5_OneRB_high_Q16

FDD12_3MHz_714.5_fullRB_Q16

FDD12_5MHz_713.5_OneRB_high_Q16

FDD12_5MHz_713.5_fullRB_Q16

FDD12_10MHz_711_OneRB_high_Q16

FDD12_10MHz_711_fullRB_Q16




FDD17_5MHz_713.5_OneRB_high_Q16

FDD17_5MHz_713.5_fullRB_Q16

FDD17_10MHz_711_OneRB_high_Q16

FDD17_10MHz_711_fullRB_Q16

FDD25_3MHz_1851.5_OneRB_high_Q16

FDD25_3MHz_1851.5_fullRB_Q16
