



FCC TEST REPORT

FCC ID: 2AU8U-P8II

On Behalf of

Shanghai e-Compass Science & Technology Co., Ltd

Handheld data collection terminal

Model No.: P8II

Prepared for : Shanghai e-Compass Science & Technology Co., Ltd

Address : Floor 1-3, Unit 12-13, No.159, Tianzhou Rd., Xuhui
District, Shanghai

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.

Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an
District, 518103, Shenzhen, Guangdong, China

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Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shanghai e-Compass Science & Technology Co., Ltd
Address : Floor 1-3, Unit 12-13, No.159, Tianzhou Rd., Xuhui District,
Shanghai
Manufacturer : Shenzhen UniStrong Science & Technology Co., Ltd.
Address : B, 4-4 Factory, Zhengcheng Road, Fuyong Baoan District,
Shenzhen, China
EUT Description : Handheld data collection terminal

(A) Model No. : P8II

(B) Trademark : N/A

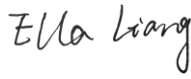
Measurement Standard Used:

FCC CFR Title 47 Part 2
FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27
ANSI C63.26:2015

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:	Ella Liang Project Engineer	
Approved by (name + signature).....:	Simple Guan Project Manager	
Date of issue.....	November 20, 2019	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 20, 2019	Initial released Issue	Simple Guan

1 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
RF Output Power	Part 2.1046 part22.913(a) (5) Part 24.232 (c) Part 27.50 (d)(4)	Pass
Peak-To-Average Ratio	Part 2.1046 Part 22.913(d) Part 24.232 (d) Part 27.50(d)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238 Part 27.53(a)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.

2 General Information

2.1 General Description of EUT

Description of Device (EUT)

Description	: Handheld data collection terminal
Trademark	: N/A P8II
Model Number	:
DIFF.	: N/A
Test Voltage	: DC 3.8V by battery DC 5V from adapter input AC 230V, 50Hz
Support Networks	: LTE
Support Bands	LTE Band 2/4/5/7/12/13/17/28/38/41
Channel 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 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 38: : 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: : 5MHz, 10MHz, 15MHz, 20MHz
TX Frequency	LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699MHz ~ 716MHz LTE Band 13: 777MHz ~ 787MHz. LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850MHz ~ 1915MHz. LTE Band 38: 2570MHz ~ 2620 MHz LTE Band 41: 2555MHz ~ 2655 MHz
Modulation type	QPSK, 16QAM
Antenna Type	: Internal antenna, Maximum Gain is 0dBi
Software version	: RF01.62.43.03
Hardware version	: I22-MB_V1.1

Remark 1: The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 4G function, and there is no other transmitter involved.

Remark 2: This product has a filter so that the band 41 frequency band only supports 2555MHz ~ 2655MHz

2.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: CN0085

2.4 Accessories of Device (EUT)

Accessories1	:	Power Adapter
Manufacturer	:	Shenzhen Ruide Electronical Industrial Co., Ltd.
Model	:	Q2W24-1U-C
Input	:	100-240V~, 50/60Hz, 0.7A
Output	:	5V $\overline{\text{---}}$ 3A/9V $\overline{\text{---}}$ 2.67A/ 12V $\overline{\text{---}}$ 2A
Accessories 2	:	USB Cable
Manufacturer	:	Shenzhen Ruide Electronical Industrial Co., Ltd.
Model	:	/
Ratings	:	1m

2.5 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
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2.6 Test Conditions

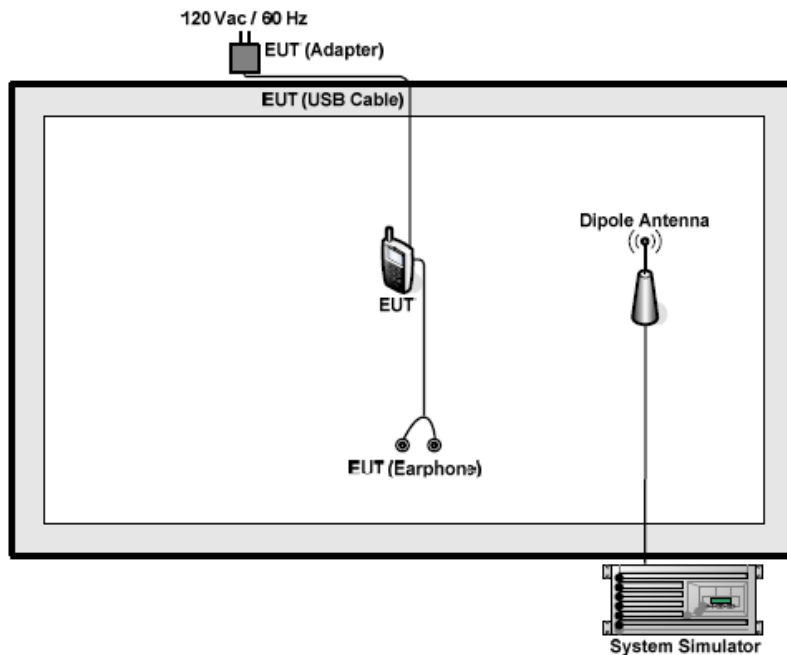
Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7 Measurement Uncertainty

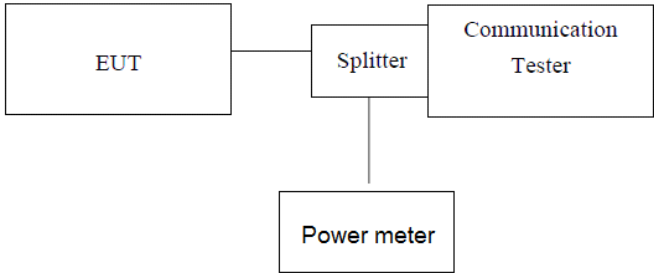
Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	5.4×10^{-8}
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3 Test Instruments list

Equipment	Manufacturer	Model No.	Serial No.	Last cal.	Cal Interval
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2019.09.07	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120	2018.04.13	2Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	00059	2019.09.07	2Year
Filter	KANGMAI	ZLPF-LDC-1000-1959	1209002075	2019.09.06	1Year
Filter	WAINWRIGHT	WHKX2.80 /18G-12SS	SN1	2019.09.06	1Year
Filter	WAINWRIGHT	WHKX1.0G/15G -10SS	SN40	2019.09.06	1Year
RF Cable	Resenberger	Cable 4	N/A	2018.09.21	1Year
CMU200	ROHDE&SCHWARZ	CMU200	116785	2019.09.05	1Year
CMW500	ROHDE&SCHWARZ	CMW500	1201.0002K50-117239-sM	2019.09.05	1Year
Signal Analyzer	Agilent	E4407B	MY49510055	2019.09.05	1Year
Signal Analyzer	Agilent	N9020A	MY499100060	2019.09.05	1Year
vector Signal Generator	Agilent	N5182A	MY49060042	2019.09.05	1Year
vector Signal Generator	Agilent	E4438C	US44271917	2019.09.06	1Year
Amplifier	Agilent	8449B	3008A02664	2018.09.21	1Year
Test Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-102082-Wa	2019.09.06	1Year
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	/	/
RF Cable	Resenberger	Cable 1	N/A	2019.09.05	1Year
RF Cable	Resenberger	Cable 2	N/A	2019.09.06	1Year
RF Cable	Resenberger	Cable 3	N/A	2019.09.06	1Year
Power Sensor	Power Radio	RPR3006W	15100041SNO91	2019.09.06	1Year
20dB Attenuator	ICPROBING	IATS1	82347	2019.09.20	1Year
POWER DIVIDER	Mini-circuits	PD-2SF-0010	N/A	2019.09.20	1Year
POWER DIVIDER	Mini-circuits	PD-2SF-0010	N/A	2019.09.20	1Year
Temperature& Humidity test chamber	GZGONGWEN	GDS-250	080821	2019.10.20	1Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1207)	2019.09.07	2Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-627	2018.04.13	2Year



4.3 Conducted Output Power

Test Requirement:	FCC part22.913(a) (5), FCC part24.232(b) and FCC Part 27.50 (d)(4)
Test Method:	ANSI C63.26:2015
Limit:	LTE Band 2: 2W LTE Band 4: 1W LTE Band 5: 7W LTE Band 7: 2W LTE Band 12: 3W LTE Band 13: 3W LTE Band 17: 1W LTE Band 25: 2W LTE Band 38: 2W LTE Band 41: 2W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

LTE Band2

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1850.7	1	0	23.89	22.88
		1	3	22.91	23.28
		1	5	23.13	22.48
		3	0	23.62	23.22
		3	2	22.64	22.13
		3	3	22.40	22.91
		6	0	22.90	22.52
	1880.0	1	0	23.68	23.13
		1	3	23.74	22.27
		1	5	22.43	22.35
		3	0	22.21	21.33
		3	2	21.48	22.10
		3	3	22.40	20.97
		6	0	21.94	22.53
	1909.3	1	0	22.04	21.18
		1	3	22.22	22.53
		1	5	21.75	22.19
		3	0	21.57	22.34
		3	2	22.35	21.99
		3	3	22.19	22.22
		6	0	22.91	21.32
3	1851.5	1	0	23.24	23.05
		1	7	23.41	23.84
		1	14	24.46	23.70
		8	0	21.85	21.79
		8	4	22.42	22.29
		8	7	22.71	21.27
		15	0	21.84	21.83
	1880.0	1	0	22.81	21.94
		1	7	23.05	23.06
		1	14	22.56	20.88
		8	0	20.62	21.49
		8	4	21.24	19.89
		8	7	21.01	20.77
		15	0	21.54	20.68
	1908.5	1	0	22.44	22.06
		1	7	22.31	21.68
		1	14	22.10	21.23
		8	0	22.92	21.28
		8	4	22.61	22.40
		8	7	22.31	22.24
		15	0	21.55	22.58
5	1852.5	1	0	22.53	22.54
		1	12	22.30	21.29
		1	24	22.51	21.01

		12	0	22.71	21.03
		12	6	22.70	22.18
		12	13	22.09	21.92
		25	0	21.32	22.62
	1880.0	1	0	24.27	23.87
		1	12	22.16	23.20
		1	24	21.50	21.76
		12	0	21.41	20.95
		12	6	20.63	21.09
		12	13	21.34	21.24
		25	0	21.91	20.82
	1907.5	1	0	22.88	21.86
		1	12	22.59	21.74
		1	24	22.27	21.34
		12	0	22.83	22.23
		12	6	21.40	23.06
		12	13	21.89	21.38
		25	0	22.71	21.95
10	1855.0	1	0	23.58	22.73
		1	24	23.00	22.81
		1	49	23.00	23.18
		25	0	22.31	21.69
		25	12	21.96	21.59
		25	25	23.13	22.86
		50	0	22.81	22.04
	1880.0	1	0	23.00	23.37
		1	24	23.53	23.82
		1	49	21.62	21.96
		25	0	22.23	20.91
		25	12	21.64	21.46
		25	25	20.69	21.28
		50	0	20.93	20.80
	1905.0	1	0	23.22	21.91
		1	24	22.10	22.42
		1	49	22.81	21.87
		25	0	22.48	22.81
		25	12	22.24	22.12
		25	25	23.31	21.84
		50	0	22.12	22.47
15	1857.5	1	0	23.36	23.54
		1	37	22.63	23.16
		1	74	22.44	22.27
		37	0	22.84	21.56
		37	18	21.34	22.55
		37	38	21.57	21.88
		75	0	22.97	22.09
	1880.0	1	0	23.25	23.01
		1	37	24.19	22.33
		1	74	22.96	21.07
		37	0	21.75	20.91

		37	18	22.61	22.92
		37	38	22.46	22.82
		75	0	22.50	21.57
	1902.5	1	0	22.07	21.74
		1	37	22.24	21.41
		1	74	23.04	22.52
		37	0	20.74	20.31
		37	18	21.96	21.22
		37	38	22.33	21.06
		75	0	20.95	22.32
20	1860.0	1	0	23.74	22.82
		1	49	22.96	23.48
		1	99	22.93	22.84
		50	0	22.40	21.77
		50	25	22.98	22.77
		50	50	21.02	21.23
		100	0	22.84	21.63
	1880.0	1	0	22.99	23.20
		1	49	23.61	22.99
		1	99	21.54	21.99
		50	0	21.42	21.51
		50	25	21.58	22.07
		50	50	22.62	22.44
		100	0	21.23	21.66
	1900.0	1	0	22.23	21.84
		1	49	22.55	22.14
		1	99	21.65	21.81
		50	0	22.72	21.74
		50	25	21.44	20.47
		50	50	21.19	19.93
		100	0	21.67	20.93

LTE Band4

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1710.7	1	0	24.99	23.29
		1	3	23.81	23.06
		1	5	23.74	23.92
		3	0	24.65	22.82
		3	2	24.06	22.86
		3	3	23.89	23.17
		6	0	22.23	23.09
	1732.5	1	0	23.65	24.00
		1	3	24.02	23.04
		1	5	21.70	22.66
		3	0	22.87	21.75
		3	2	22.56	22.53
		3	3	22.11	22.85
		6	0	21.72	21.81
	1754.3	1	0	22.96	22.02
		1	3	22.62	21.90
		1	5	22.65	22.04
		3	0	23.24	22.10
		3	2	22.37	22.96
		3	3	21.50	23.52
		6	0	21.40	21.81
3	1711.5	1	0	24.42	23.36
		1	7	23.99	23.38
		1	14	23.30	23.49
		8	0	23.81	22.23
		8	4	22.80	22.41
		8	7	22.85	22.52
		15	0	23.71	22.93
	1732.5	1	0	22.93	23.74
		1	7	23.90	23.02
		1	14	22.84	22.68
		8	0	21.18	21.56
		8	4	21.40	20.87
		8	7	22.29	20.48
		15	0	22.15	20.16
	1753.5	1	0	22.81	21.92
		1	7	22.88	22.80
		1	14	23.66	21.62
		8	0	21.56	21.62
		8	4	22.10	20.77
		8	7	21.41	21.39
		15	0	21.19	22.43
5	1712.5	1	0	23.33	23.62
		1	12	23.37	23.78
		1	24	24.25	22.70

		12	0	24.10	23.84
		12	6	23.31	22.82
		12	13	24.28	23.14
		25	0	23.18	23.08
	1732.5	1	0	23.09	22.69
		1	12	23.63	23.22
		1	24	22.50	21.40
		12	0	21.17	20.87
		12	6	21.73	21.27
		12	13	22.47	21.62
		25	0	22.32	22.16
		25	0	22.32	22.16
	1752.5	1	0	22.22	22.08
		1	12	22.97	22.22
		1	24	22.58	21.71
		12	0	22.00	21.42
		12	6	21.77	21.12
		12	13	21.46	21.95
		25	0	22.12	21.02
		25	0	22.12	21.02
10	1715.0	1	0	23.05	22.95
		1	24	24.41	23.57
		1	49	24.78	23.42
		25	0	22.79	22.13
		25	12	21.92	22.46
		25	25	23.03	22.80
		50	0	22.91	21.98
		50	0	22.91	21.98
	1732.5	1	0	23.43	23.88
		1	24	23.83	23.66
		1	49	21.56	22.04
		25	0	22.15	21.92
		25	12	22.28	22.55
		25	25	22.70	22.03
		50	0	22.34	21.62
		50	0	22.34	21.62
	1750.0	1	0	22.62	21.27
		1	24	22.60	22.47
		1	49	23.37	23.27
		25	0	21.01	21.75
		25	12	22.18	22.20
		25	25	22.07	20.71
		50	0	21.19	20.72
		50	0	21.19	20.72
15	1717.5	1	0	24.46	24.91
		1	37	24.39	23.62
		1	74	23.24	24.30
		37	0	23.18	22.66
		37	18	23.25	22.94
		37	38	23.30	22.26
		75	0	22.67	21.38
		75	0	22.67	21.38
	1732.5	1	0	25.10	24.00
		1	37	23.43	23.07
		1	74	22.69	21.49
		37	0	22.76	22.11

		37	18	21.68	21.56
		37	38	21.56	21.04
		75	0	21.91	20.31
	1747.5	1	0	22.93	23.21
		1	37	23.32	22.04
		1	74	22.95	23.13
		37	0	21.24	22.33
		37	18	21.43	21.47
		37	38	21.28	20.58
		75	0	21.79	21.45
20	1720.0	1	0	24.28	22.92
		1	49	24.13	24.05
		1	99	24.90	23.28
		50	0	23.88	23.12
		50	25	23.07	22.31
		50	50	23.37	22.68
		100	0	23.27	21.82
	1732.5	1	0	23.94	24.10
		1	49	25.08	23.84
		1	99	21.93	21.50
		50	0	22.86	21.48
		50	25	21.27	21.08
		50	50	21.06	21.87
		100	0	21.93	21.81
	1745.0	1	0	22.54	21.56
		1	49	23.81	22.44
		1	99	22.52	22.72
		50	0	21.65	21.83
		50	25	21.77	21.22
		50	50	21.76	21.07
		100	0	21.88	21.73

LTE Band5

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	824.7	1	0	23.30	22.56
		1	3	22.89	21.62
		1	5	22.30	22.58
		3	0	23.13	22.24
		3	2	22.87	21.98
		3	3	23.03	22.42
		6	0	22.82	22.50
	836.5	1	0	23.62	23.98
		1	3	23.48	22.20
		1	5	21.89	22.38
		3	0	23.12	22.43
		3	2	21.92	22.39
		3	3	21.05	21.75
		6	0	22.28	22.17
	848.3	1	0	21.85	20.87
		1	3	21.98	20.87
		1	5	21.92	22.24
		3	0	22.03	21.81
		3	2	21.74	22.51
		3	3	22.68	21.21
		6	0	22.03	20.26
3	825.5	1	0	22.82	22.09
		1	7	23.31	22.86
		1	14	23.25	22.41
		8	0	22.30	22.14
		8	4	23.61	21.77
		8	7	23.07	22.55
		15	0	22.78	22.48
	836.5	1	0	23.28	21.45
		1	7	22.75	22.41
		1	14	21.26	20.97
		8	0	22.19	22.61
		8	4	21.57	20.67
		8	7	21.80	21.14
		15	0	21.43	21.08
	847.5	1	0	22.51	22.41
		1	7	21.13	22.55
		1	14	21.17	20.55
		8	0	22.37	22.24
		8	4	22.00	22.87
		8	7	21.49	22.43
		15	0	21.73	21.59
5	826.5	1	0	23.18	22.96
		1	12	23.20	22.99
		1	24	23.13	22.30

		12	0	22.93	22.35
		12	6	22.35	22.12
		12	13	22.46	22.25
		25	0	23.77	23.46
	836.5	1	0	23.05	23.10
		1	12	21.84	22.73
		1	24	22.68	22.58
		12	0	21.13	22.23
		12	6	23.03	22.23
		12	13	22.66	21.86
		25	0	21.72	22.26
	846.5	1	0	20.80	21.54
		1	12	21.02	21.96
		1	24	22.45	21.99
		12	0	21.43	22.19
		12	6	22.43	21.36
		12	13	20.89	20.61
		25	0	22.12	20.47
10	829.0	1	0	23.26	22.79
		1	24	22.72	22.73
		1	49	23.29	23.75
		25	0	22.79	22.75
		25	12	23.44	22.36
		25	25	24.51	23.18
		50	0	24.46	23.32
	836.5	1	0	23.92	23.38
		1	24	23.42	22.11
		1	49	21.93	21.34
		25	0	23.32	22.07
		25	12	21.85	22.61
		25	25	23.00	21.80
		50	0	21.54	20.94
	844.0	1	0	22.26	22.41
		1	24	22.68	22.94
		1	49	22.23	22.78
		25	0	20.94	21.60
		25	12	22.44	21.93
		25	25	23.17	21.72
		50	0	21.63	21.18

LTE Band7

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2502.5	1	0	22.83	22.92
		1	12	23.24	22.70
		1	24	22.26	22.32
		12	0	23.83	23.35
		12	6	24.30	22.59
		12	13	23.16	21.00
		25	0	23.47	22.06
	2535.0	1	0	23.84	23.17
		1	12	23.33	22.42
		1	24	21.74	21.09
		12	0	22.98	21.43
		12	6	21.51	21.40
		12	13	22.82	20.20
		25	0	22.09	20.66
	2567.5	1	0	21.67	20.79
		1	12	21.90	22.80
		1	24	20.47	20.76
		12	0	21.67	20.80
		12	6	22.55	21.65
		12	13	21.26	20.21
		25	0	22.14	20.98
10	2505.0	1	0	23.52	23.84
		1	24	22.83	22.68
		1	49	22.65	23.40
		25	0	24.29	22.59
		25	12	24.44	21.98
		25	25	23.09	22.50
		50	0	24.25	22.38
	2535.0	1	0	23.07	23.37
		1	24	23.26	23.27
		1	49	23.11	22.66
		25	0	23.24	21.64
		25	12	21.92	22.06
		25	25	21.42	21.36
		50	0	22.58	22.45
	2565.0	1	0	23.10	22.52
		1	24	22.75	21.86
		1	49	22.11	22.40
		25	0	22.38	21.76
		25	12	22.21	22.93
		25	25	23.05	22.76
		50	0	21.65	21.15
15	2507.5	1	0	22.10	22.84
		1	37	22.89	23.65
		1	74	22.89	23.04

		37	0	23.24	21.38
		37	18	22.24	22.25
		37	38	22.66	22.94
		75	0	22.86	22.86
	2535.0	1	0	22.58	22.12
		1	37	22.75	22.74
		1	74	20.41	21.93
		37	0	22.16	22.33
		37	18	21.76	21.36
		37	38	21.93	21.52
		75	0	21.74	21.96
	2562.5	1	0	22.62	21.89
		1	37	21.90	21.09
		1	74	21.51	20.90
		37	0	21.56	20.61
		37	18	23.35	19.68
		37	38	21.71	21.69
		75	0	20.65	20.79
20	2510.0	1	0	23.42	23.38
		1	49	23.18	21.40
		1	99	23.17	21.85
		50	0	23.07	20.95
		50	25	23.70	21.09
		50	50	22.75	21.38
		100	0	23.03	22.13
	2535.0	1	0	22.41	23.05
		1	49	22.39	23.13
		1	99	22.20	21.11
		50	0	20.96	21.16
		50	25	21.72	21.45
		50	50	22.16	21.04
		100	0	22.14	21.97
	2560	1	0	22.23	21.18
		1	49	22.11	21.68
		1	99	21.87	21.48
		50	0	21.45	20.97
		50	25	21.91	19.82
		50	50	20.88	21.33
		100	0	22.05	20.48

LTE Band12

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	699.7	1	0	22.80	23.39
		1	3	23.33	22.97
		1	5	22.67	22.12
		3	0	23.46	23.27
		3	2	23.95	23.07
		3	3	22.98	21.30
		6	0	23.69	21.95
	707.5	1	0	23.89	23.15
		1	3	23.08	22.12
		1	5	21.75	21.39
		3	0	23.20	20.99
		3	2	21.97	21.70
		3	3	22.65	20.60
		6	0	22.10	20.56
	715.3	1	0	22.00	20.80
		1	3	22.01	22.51
		1	5	20.93	20.23
		3	0	21.83	21.14
		3	2	22.71	21.26
		3	3	21.69	20.31
		6	0	22.35	20.51
4	700.5	1	0	23.10	23.90
		1	7	23.06	22.32
		1	14	22.94	23.10
		8	0	24.05	22.71
		8	4	24.32	22.43
		8	7	23.19	22.42
		15	0	23.99	22.74
	707.5	1	0	22.99	23.49
		1	7	23.53	22.87
		1	14	23.17	22.94
		8	0	23.25	21.83
		8	4	22.09	22.04
		8	7	21.66	20.87
		15	0	22.90	22.12
	714.5	1	0	22.81	22.61
		1	7	22.88	22.31
		1	14	21.93	22.41
		8	0	21.98	21.81
		8	4	22.35	22.63
		8	7	23.19	22.43
		15	0	22.06	20.99

5	701.5	1	0	22.51	23.10
		1	12	23.27	23.56
		1	24	22.93	22.82
		12	0	22.93	21.86
		12	6	22.67	22.12
		12	13	22.79	22.61
		25	0	22.61	23.06
	707.5	1	0	22.60	22.51
		1	12	23.21	22.37
		1	24	20.89	21.41
		12	0	22.53	22.05
		12	6	21.83	21.81
		12	13	22.10	21.55
		25	0	21.66	21.96
	713.5	1	0	22.84	21.78
		1	12	21.47	20.97
		1	24	21.82	20.66
		12	0	21.56	20.50
		12	6	23.07	20.12
		12	13	21.89	21.53
		25	0	21.15	20.98
10	704	1	0	23.37	23.73
		1	24	23.41	21.87
		1	49	23.54	22.31
		25	0	23.35	21.50
		25	12	23.20	21.51
		25	25	22.57	21.34
		50	0	23.10	22.36
	707.5	1	0	22.96	22.66
		1	24	22.82	23.28
		1	49	22.05	20.85
		25	0	21.39	21.39
		25	12	21.64	21.50
		25	25	22.53	21.03
		50	0	22.20	21.62
	711.0	1	0	22.00	21.40
		1	24	21.60	21.36
		1	49	22.29	21.05
		25	0	21.50	21.38
		25	12	21.65	20.22
		25	25	20.92	20.88
		50	0	22.41	20.80

LTE Band13

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	777	1	0	24.94	23.84
		1	12	24.72	24.20
		1	24	25.03	24.94
		12	0	23.72	24.27
		12	6	24.09	23.15
		12	13	23.44	23.14
		25	0	24.21	23.83
	779.5	1	0	25.13	25.20
		1	12	25.12	24.59
		1	24	24.23	23.67
		12	0	22.94	23.01
		12	6	22.39	22.52
		12	13	22.97	21.84
		25	0	23.26	23.04
	782	1	0	24.07	23.36
		1	12	23.49	23.87
		1	24	24.69	24.06
		12	0	22.75	22.35
		12	6	23.15	22.63
		12	13	22.97	22.73
		25	0	22.77	22.30
10	777	1	0	24.57	24.63
		1	24	25.03	23.90
		1	49	24.32	24.81
		25	0	23.67	24.17
		25	12	24.17	23.42
		25	25	24.12	23.82
		50	0	23.67	23.05
	782	1	0	24.88	25.20
		1	24	24.83	24.71
		1	49	23.91	24.26
		25	0	23.50	22.50
		25	12	22.78	22.22
		25	25	23.30	22.13
		50	0	23.25	22.78
	787	1	0	24.16	23.41
		1	24	23.74	22.95
		1	49	24.20	23.55
		25	0	23.20	23.06
		25	12	23.20	22.47
		25	25	23.28	23.02
		50	0	23.01	22.97

LTE Band17

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	706.5	1	0	22.85	23.44
		1	12	23.30	22.84
		1	24	22.66	22.05
		12	0	23.58	23.26
		12	6	23.92	23.05
		12	13	23.02	21.41
		25	0	23.70	22.05
	710.0	1	0	23.79	23.06
		1	12	23.12	22.05
		1	24	21.76	21.42
		12	0	23.16	21.02
		12	6	22.00	21.74
		12	13	22.57	20.66
		25	0	22.18	20.55
	713.5	1	0	22.01	20.84
		1	12	22.12	22.50
		1	24	20.97	20.29
		12	0	21.74	21.20
		12	6	22.73	21.37
		12	13	21.70	20.26
		25	0	22.35	20.58
10	709.0	1	0	23.10	23.87
		1	24	23.01	22.34
		1	49	22.85	23.12
		25	0	24.14	22.64
		25	12	24.36	22.41
		25	25	23.10	22.49
		50	0	23.94	22.70
	710.0	1	0	23.03	23.49
		1	24	23.54	22.87
		1	49	23.13	23.00
		25	0	23.17	21.76
		25	12	22.08	22.04
		25	25	21.54	20.85
		50	0	22.92	22.01
	711.0	1	0	22.81	22.59
		1	24	22.81	22.35
		1	49	21.80	22.49
		25	0	22.00	21.79
		25	12	22.34	22.55
		25	25	23.17	22.43
		50	0	22.08	20.99

LTE Band25

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1850.7	1	0	24.69	24.50
		1	3	24.53	24.45
		1	5	24.93	23.60
		3	0	24.75	24.55
		3	2	25.27	24.21
		3	3	24.95	24.75
		6	0	24.04	23.22
	1882.5	1	0	24.41	25.27
		1	3	25.25	24.17
		1	5	23.89	22.96
		3	0	23.53	23.58
		3	2	23.98	23.30
		3	3	23.70	22.97
		6	0	22.59	22.22
	1914.3	1	0	24.40	23.51
		1	3	23.63	23.99
		1	5	24.25	22.91
		3	0	24.60	23.31
		3	2	23.72	24.14
		3	3	24.20	23.66
		6	0	22.85	22.87
3	1851.5	1	0	24.28	24.13
		1	7	24.83	24.43
		1	14	24.34	24.20
		8	0	23.71	23.34
		8	4	23.88	23.38
		8	7	23.39	24.06
		15	0	24.07	23.96
	1882.5	1	0	24.98	23.39
		1	7	24.44	23.69
		1	14	24.08	22.82
		8	0	23.03	22.25
		8	4	22.39	22.45
		8	7	22.78	21.78
		15	0	23.08	22.77
	1913.5	1	0	24.42	23.23
		1	7	24.32	23.84
		1	14	23.51	23.24
		8	0	23.45	23.35
		8	4	22.86	23.51
		8	7	22.52	22.57
		15	0	22.87	22.87
5	1852.5	1	0	24.67	24.26
		1	12	24.44	24.00
		1	24	23.96	23.43

		12	0	23.78	23.60
		12	6	23.57	23.53
		12	13	23.61	23.52
		25	0	23.59	23.46
	1882.5	1	0	24.38	24.49
		1	12	24.65	24.47
		1	24	24.25	22.85
		12	0	22.83	22.70
		12	6	23.05	22.22
		12	13	22.86	22.38
		25	0	23.63	22.75
	1912.5	1	0	23.85	23.78
		1	12	24.10	23.28
		1	24	23.41	23.73
		12	0	23.46	22.39
		12	6	23.54	22.56
		12	13	22.59	22.37
		25	0	23.32	22.60
10	1855	1	0	25.11	23.74
		1	24	24.64	24.62
		1	49	24.19	24.36
		25	0	23.68	23.60
		25	12	23.44	22.74
		25	25	24.08	23.80
		50	0	24.03	23.95
	1882.5	1	0	24.50	24.68
		1	24	24.93	24.55
		1	49	23.90	23.12
		25	0	22.93	23.37
		25	12	22.87	22.68
		25	25	22.47	21.96
		50	0	22.83	22.52
	1910.0	1	0	23.22	23.22
		1	24	23.22	23.22
		1	49	23.22	23.22
		25	0	23.22	23.22
		25	12	23.22	23.22
		25	25	23.22	23.22
		50	0	23.22	23.22
15	1857.5	1	0	24.76	24.41
		1	37	25.22	24.32
		1	74	24.71	24.25
		37	0	24.38	23.68
		37	18	23.74	23.58
		37	38	24.44	23.68
		75	0	23.53	23.09
	1882.5	1	0	25.55	24.58
		1	37	24.78	24.69
		1	74	23.90	23.14
		37	0	23.17	22.73

		37	18	22.80	22.08
		37	38	22.64	23.12
		75	0	22.50	22.34
	1907.5	1	0	24.17	23.82
		1	37	24.18	23.67
		1	74	23.36	22.96
		37	0	23.34	22.67
		37	18	22.92	22.93
		37	38	23.36	22.74
		75	0	22.97	22.54
20	1860.0	1	0	24.83	25.01
		1	49	25.32	24.79
		1	99	25.70	24.25
		50	0	24.07	23.03
		50	25	24.29	24.43
		50	50	23.53	23.72
		100	0	24.31	24.28
	1882.5	1	0	25.60	24.76
		1	49	24.92	23.97
		1	99	24.16	22.97
		50	0	22.60	21.66
		50	25	22.94	22.34
		50	50	22.88	22.11
		100	0	22.54	23.14
	1905.0	1	0	23.36	23.22
		1	49	23.34	23.28
		1	99	23.51	22.89
		50	0	23.30	23.21
		50	25	23.01	23.74
		50	50	23.27	23.55
		100	0	23.24	22.96

LTE Band38

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2572.5	1	0	22.90	23.34
		1	12	23.25	22.86
		1	24	22.67	22.00
		12	0	23.52	23.20
		12	6	23.96	23.00
		12	13	22.98	21.26
		25	0	23.60	21.99
	2595.0	1	0	23.78	23.14
		1	12	23.11	22.05
		1	24	21.87	21.37
		12	0	23.07	21.01
		12	6	21.91	21.70
		12	13	22.65	20.63
		25	0	22.15	20.54
	2617.5	1	0	22.03	20.86
		1	12	22.11	22.58
		1	24	20.92	20.35
		12	0	21.74	21.24
		12	6	22.60	21.41
		12	13	21.66	20.29
		25	0	22.42	20.52
10	2575.0	1	0	23.12	23.97
		1	24	23.09	22.26
		1	49	22.99	23.07
		25	0	24.07	22.65
		25	12	24.29	22.43
		25	25	23.24	22.54
		50	0	23.95	22.73
	2595.0	1	0	23.00	23.37
		1	24	23.58	22.89
		1	49	23.12	22.97
		25	0	23.18	21.80
		25	12	22.13	22.17
		25	25	21.52	20.94
		50	0	22.86	22.09
	2615.0	1	0	22.92	22.69
		1	24	22.82	22.27
		1	49	21.88	22.43
		25	0	21.99	21.86
		25	12	22.24	22.51
		25	25	23.10	22.37

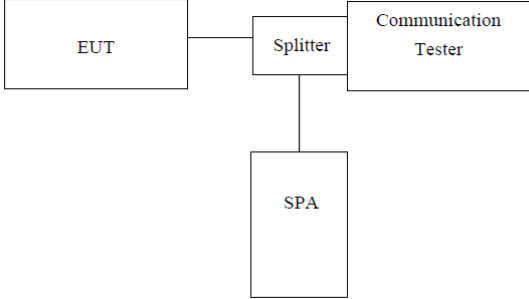
		50	0	22.04	21.12
15	2577.5	1	0	22.58	23.12
		1	37	23.30	23.55
		1	74	23.07	22.82
		37	0	22.95	21.77
		37	18	22.72	22.16
		37	38	22.75	22.52
		75	0	22.61	23.08
	2595.0	1	0	22.64	22.48
		1	37	23.26	22.46
		1	74	20.82	21.50
		37	0	22.55	21.98
		37	18	21.78	21.86
		37	38	22.10	21.62
		75	0	21.68	21.98
	2612.5	1	0	22.89	21.75
		1	37	21.51	20.92
		1	74	21.87	20.73
		37	0	21.56	20.56
		37	18	23.20	20.03
		37	38	21.87	21.58
		75	0	21.09	20.95
20	2580.0	1	0	23.33	23.76
		1	49	23.44	21.77
		1	99	23.40	22.28
		50	0	23.43	21.37
		50	25	23.22	21.48
		50	50	22.46	21.37
		100	0	22.98	22.42
	2595.0	1	0	22.84	22.59
		1	49	22.72	23.27
		1	99	22.05	20.77
		50	0	21.41	21.33
		50	25	21.67	21.49
		50	50	22.63	20.98
		100	0	22.13	21.52
	2610.0	1	0	22.05	21.47
		1	49	21.66	21.38
		1	99	22.20	21.05
		50	0	21.50	21.44
		50	25	21.66	20.14
		50	50	20.83	20.94
		100	0	22.38	20.81

LTE Band41

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2557.5	1	0	22.95	23.40
		1	12	23.23	22.94
		1	24	22.60	22.10
		12	0	23.56	23.32
		12	6	23.92	23.10
		12	13	23.06	21.36
		25	0	23.64	21.92
	2605.0	1	0	23.87	23.07
		1	12	23.16	22.06
		1	24	21.82	21.34
		12	0	23.09	20.95
		12	6	21.90	21.67
		12	13	22.57	20.67
		25	0	22.20	20.50
	2652.5	1	0	22.08	20.84
		1	12	22.06	22.50
		1	24	20.84	20.25
		12	0	21.78	21.26
		12	6	22.73	21.37
		12	13	21.69	20.17
		25	0	22.29	20.64
10	2560.0	1	0	23.02	23.92
		1	24	23.04	22.26
		1	49	23.00	23.11
		25	0	24.02	22.75
		25	12	24.41	22.48
		25	25	23.24	22.49
		50	0	23.95	22.68
	2605.0	1	0	23.06	23.43
		1	24	23.62	22.87
		1	49	23.12	22.92
		25	0	23.17	21.78
		25	12	22.18	22.02
		25	25	21.62	20.84
		50	0	22.96	22.09
	2650.0	1	0	22.88	22.66
		1	24	22.86	22.32
		1	49	21.96	22.48
		25	0	21.98	21.76
		25	12	22.23	22.63
		25	25	23.13	22.42
		50	0	22.04	21.12
15	2562.5	1	0	22.63	23.09
		1	37	23.27	23.57

		1	74	23.04	22.89
		37	0	22.95	21.85
		37	18	22.64	22.03
		37	38	22.78	22.49
		75	0	22.62	23.10
	2605.0	1	0	22.55	22.40
		1	37	23.25	22.35
		1	74	20.79	21.41
		37	0	22.62	21.99
		37	18	21.77	21.72
		37	38	22.13	21.60
		75	0	21.68	21.92
	2647.5	1	0	22.75	21.80
		1	37	21.49	20.96
		1	74	21.82	20.69
		37	0	21.47	20.51
		37	18	23.09	20.11
		37	38	21.98	21.57
		75	0	21.13	20.94
20	2565.0	1	0	23.29	23.73
		1	49	23.44	21.87
		1	99	23.49	22.29
		50	0	23.39	21.40
		50	25	23.28	21.56
		50	50	22.58	21.40
		100	0	22.96	22.37
	2605.0	1	0	22.86	22.68
		1	49	22.75	23.27
		1	99	22.07	20.79
		50	0	21.47	21.39
		50	25	21.65	21.54
		50	50	22.61	20.93
		100	0	22.17	21.66
	2645.0	1	0	22.03	21.49
		1	49	21.69	21.30
		1	99	22.33	20.96
		50	0	21.49	21.40
		50	25	21.58	20.19
		50	50	20.94	20.88
		100	0	22.39	20.89

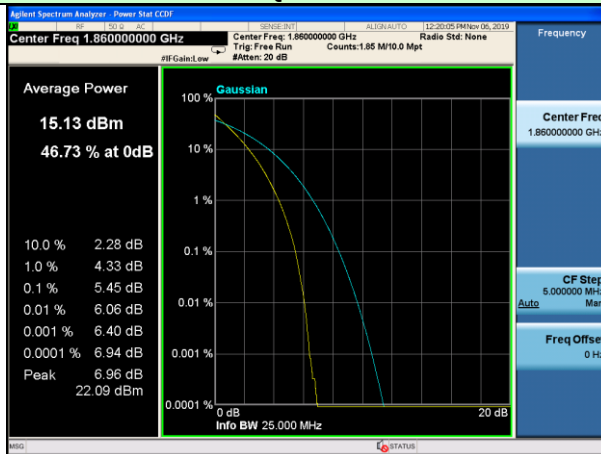
4.4 Peak-to-Average Ratio

Test Requirement:	Part 22.913(d), FCC part24.232(d) and FCC part27.50(d)(5)
Test Method:	ANSI C63.26:2015
Test Limit:	Used complementary cumulative distribution function (CCDF) of analyzer to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time
Test setup:	 <pre> graph LR EUT[EUT] --- Splitter[Splitter] Splitter --- CT[Communication Tester] Splitter --- SPA[SPA] </pre> <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.. 2. The EUT was connected to spectrum and system simulator via a power divider 3. Using the CCDF measurement of spectrum analyzer; 4. Set $RBW \geq OBW$ or specified reference bandwidth; 5. Set the number of counts to a value that stabilizes the measured CCDF curve; 6. Set the measurement interval as 1ms 7. Record the maximum PAPR level associated with a probability of 0.1%.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

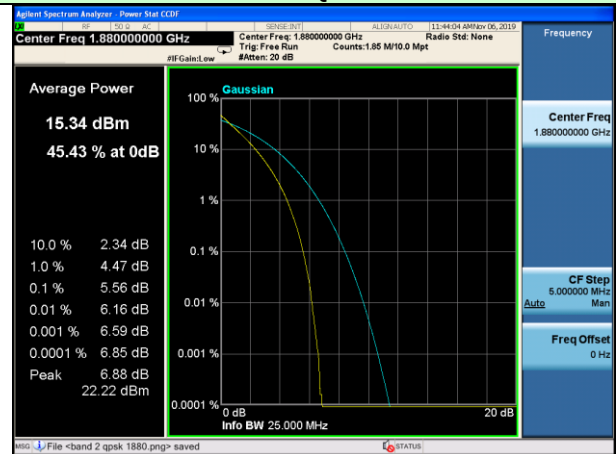
Test plots are listed as below:

Test mode	Peak to Average Ratio (dB)	Limit (dB)	Result
LTE Band 2 Middle channel/20MHz/QPSK	5.45	13	PASS
LTE Band 2 Middle channel/20MHz/16-QAM	5.56	13	PASS
LTE Band 4 Middle channel/20MHz/QPSK	5.54	13	PASS
LTE Band 4 Middle channel/20MHz/16-QAM	5.97	13	PASS
LTE Band 5 Middle channel/10MHz/QPSK	5.34	13	PASS
LTE Band 5 Middle channel/10MHz/16-QAM	5.20	13	PASS
LTE Band 7 Middle channel/20MHz/QPSK	4.64	13	PASS
LTE Band 7 Middle channel/20MHz/16-QAM	5.76	13	PASS
LTE Band 12 Middle channel/10MHz/QPSK	5.06	13	PASS
LTE Band 12 Middle channel/10MHz/16-QAM	4.99	13	PASS
LTE Band 13 Middle channel/10MHz/QPSK	5.35	13	PASS
LTE Band 13 Middle channel/10MHz/16-QAM	5.35	13	PASS
LTE Band 17 Middle channel/10MHz/QPSK	5.05	13	PASS
LTE Band 17 Middle channel/10MHz/16-QAM	5.04	13	PASS
LTE Band 25 Middle channel/20MHz/QPSK	5.89	13	PASS
LTE Band 25 Middle channel/20MHz/16-QAM	5.88	13	PASS
LTE Band 38 Middle channel/20MHz/QPSK	9.52	13	PASS
LTE Band 38 Middle channel/20MHz/16-QAM	9.67	13	PASS
LTE Band 41 Middle channel/20MHz/QPSK	9.40	13	PASS
LTE Band 41 Middle channel/20MHz/16-QAM	9.66	13	PASS

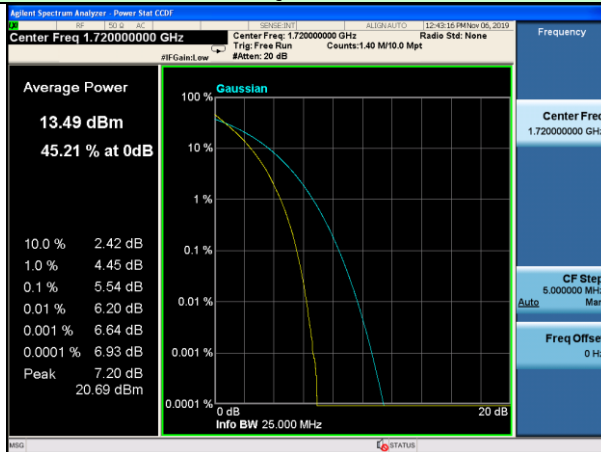
Test Mode: LTE Band 2 Middle channel/20MHz/QPSK



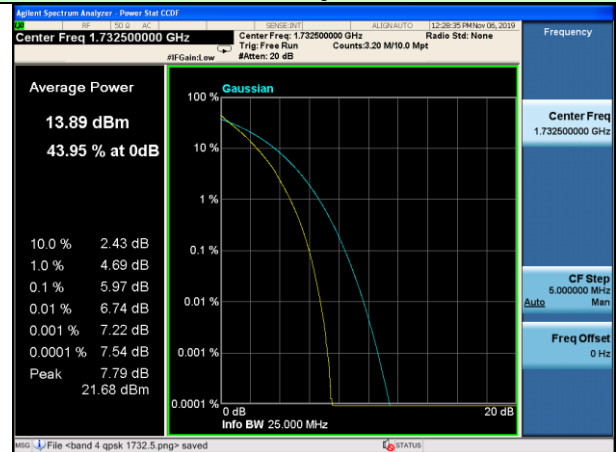
Test Mode: LTE Band 2 Middle channel/20MHz/16-QAM



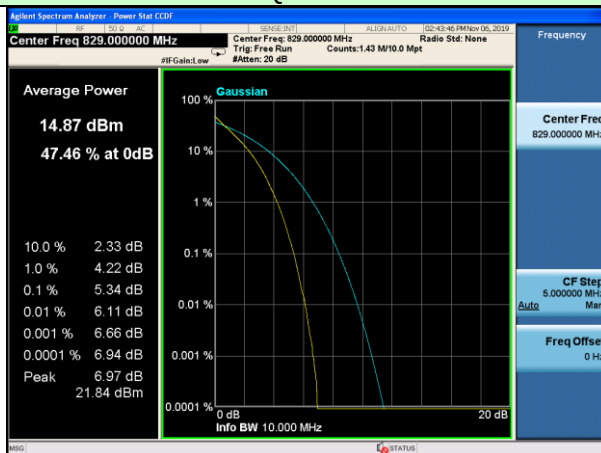
Test Mode: LTE Band 4 Middle channel/20MHz/QPSK



Test Mode: LTE Band 4 Middle channel/20MHz/16-QAM



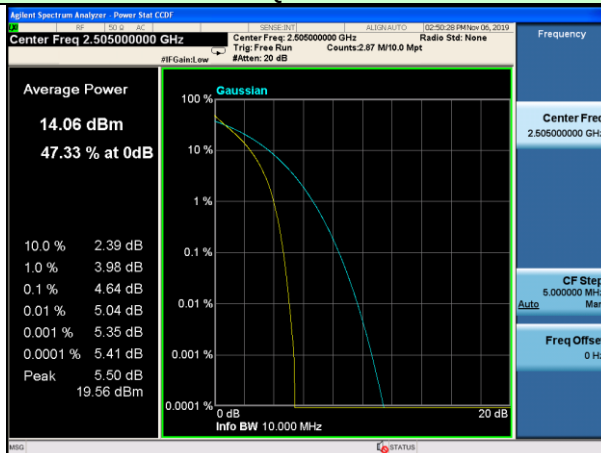
Test Mode: LTE Band 5 Middle channel/10MHz/QPSK



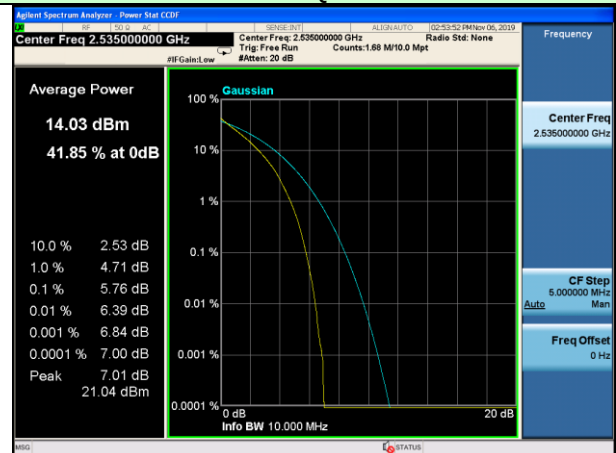
Test Mode: LTE Band 5 Middle channel/10MHz/16-QAM



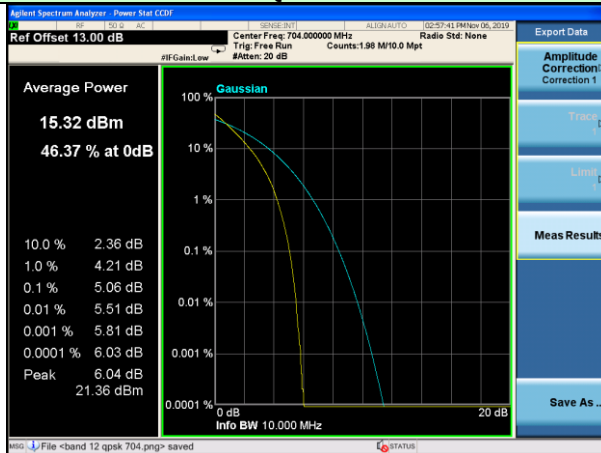
Test Mode: LTE Band 7
Middle channel/20MHz/QPSK



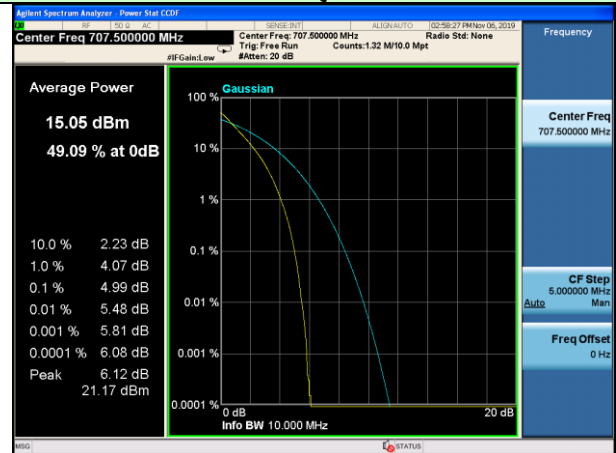
Test Mode: LTE Band 7
Middle channel/20MHz/16-QAM



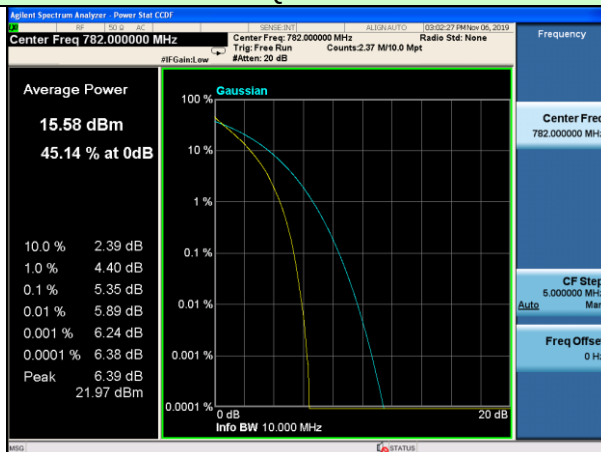
Test Mode: LTE Band 12
Middle channel/20MHz/QPSK



Test Mode: LTE Band 12
Middle channel/20MHz/16-QAM



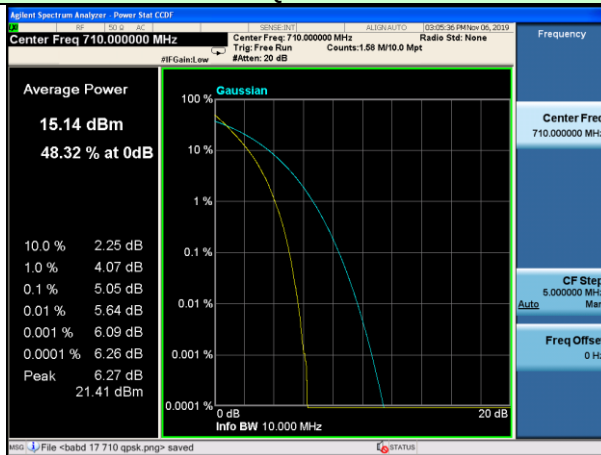
Test Mode: LTE Band 13
Middle channel/10MHz/QPSK



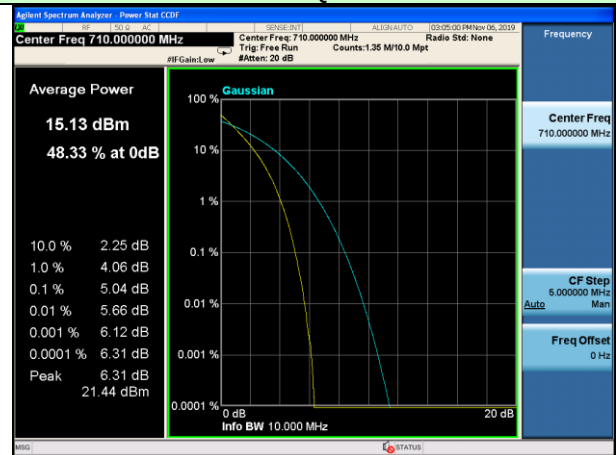
Test Mode: LTE Band 13
Middle channel/10MHz/16-QAM



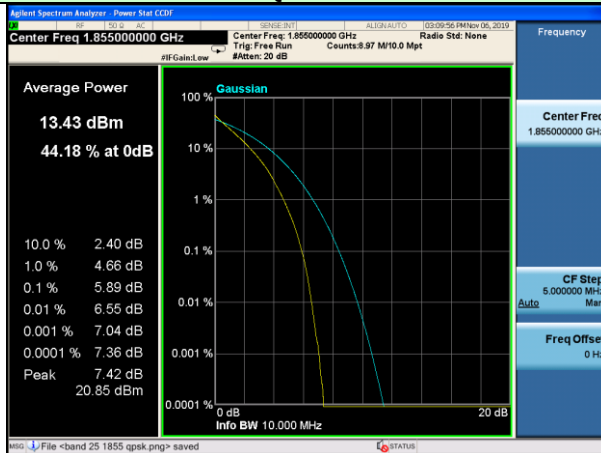
Test Mode: LTE Band 17
Middle channel/20MHz/QPSK



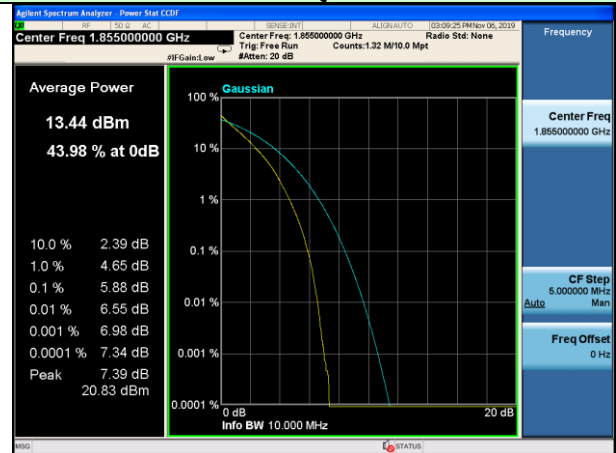
Test Mode: LTE Band 17
Middle channel/20MHz/16-QAM



Test Mode: LTE Band 25
Middle channel/20MHz/QPSK



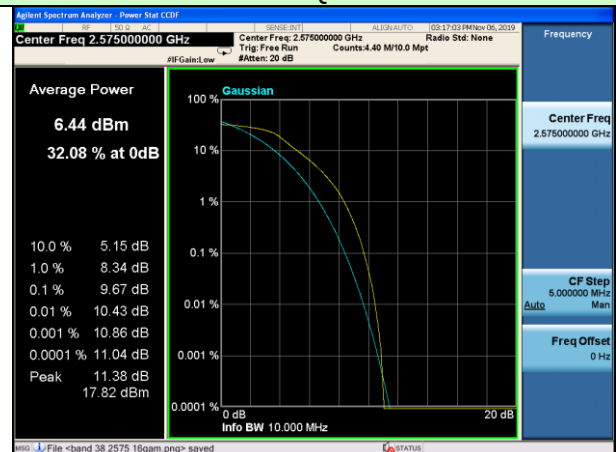
Test Mode: LTE Band 25
Middle channel/20MHz/16-QAM

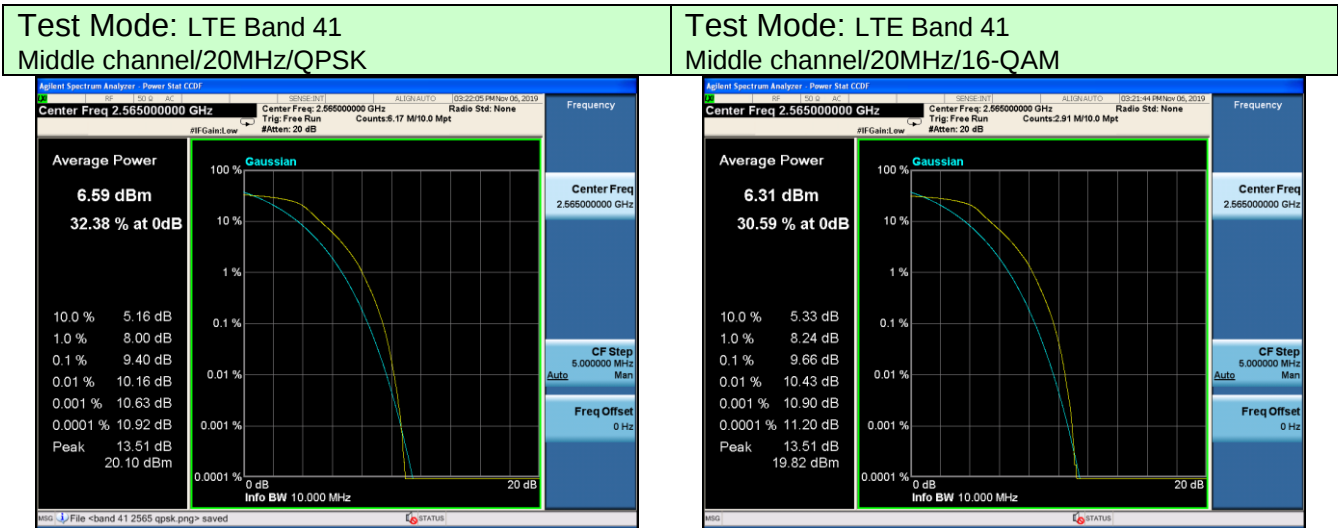


Test Mode: LTE Band 38
Middle channel/10MHz/QPSK



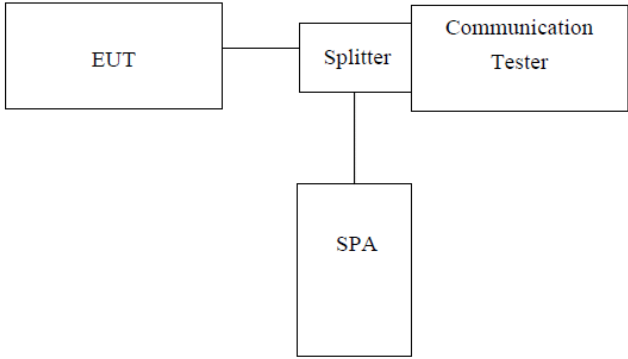
Test Mode: LTE Band 38
Middle channel/10MHz/16-QAM





Note: All bandwidth and modulation are tested, only the worst results are reported.

4.5 Occupy Bandwidth

Test Requirement:	FCC part22.913(a), FCC part24.232(b) and FCC part27.53(a)
Test Method:	ANSI C63.26:2015
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1.The EUT's output RF connector was connected with a short cable to the spectrum analyzer, set center frequency to channel center frequency. 2.RBW was set to about 1%-5% of emission OBW, $VBW \geq 3 \times RBW$. 3.Set spectrum analyzer detection mode to peak, and the trace mode to max hold. 4. Use the 99% OBW function, The 99% power OBW can be found on the plot, determine the "-26dB amplitude" as equal to reference value -26dB.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 2	1.4MHz	QPSK	6	0	1197.3	1495.00
		16-QAM	6	0	1205.1	1495.00
	3MHz	QPSK	15	0	2737.6	3061.00
		16-QAM	15	0	2737.3	3051.00
	5MHz	QPSK	25	0	4523.2	5010.00
		16-QAM	25	0	4717.2	6125.00
	10MHz	QPSK	50	0	9027.2	10149.00
		16-QAM	50	0	9049.0	10147.00
	15MHz	QPSK	75	0	13452.7	14840.00
		16-QAM	75	0	13454.9	14787.00
	20MHz	QPSK	100	0	17823.5	19155.00
		16-QAM	100	0	17812.4	19231.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 4	1.4MHz	QPSK	6	0	1200.2	1494.00
		16-QAM	6	0	1199.5	1487.00
	3MHz	QPSK	15	0	2738.3	3047.00
		16-QAM	15	0	2736.0	3062.00
	5MHz	QPSK	25	0	4513.2	5014.00
		16-QAM	25	0	4517.2	4985.00
	10MHz	QPSK	50	0	9075.3	10118.00
		16-QAM	50	0	9063.5	10078.00
	15MHz	QPSK	75	0	13479.7	14796.00
		16-QAM	75	0	13470.7	14787.00
	20MHz	QPSK	100	0	17825.5	18508.00
		16-QAM	100	0	17825.4	19249.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 5	1.4MHz	QPSK	6	0	1200.8	1488.00
		16-QAM	6	0	1208.6	1489.00
	3MHz	QPSK	15	0	2736.5	3072.00
		16-QAM	15	0	2734.8	3076.00
	5MHz	QPSK	25	0	4513.2	4970.00
		16-QAM	25	0	4517.6	4970.00
	10MHz	QPSK	50	0	9040.9	10150.00
		16-QAM	50	0	9087.3	10034.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 7	5MHz	QPSK	25	0	4522.2	5029.00
		16-QAM	25	0	4521.8	5010.00
	10MHz	QPSK	50	0	9067.9	10155.00
		16-QAM	50	0	9092.6	10061.00
	15MHz	QPSK	75	0	13457.6	15062.00
		16-QAM	75	0	13451.6	14635.00
	20MHz	QPSK	100	0	17869.2	19336.00
		16-QAM	100	0	17888.8	19232.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 12	1.4MHz	QPSK	25	0	1215.1	2125.00
		16-QAM	25	0	1227.7	2145.00
	3MHz	QPSK	50	0	2728.9	3128.00
		16-QAM	50	0	2725.4	3083.00
	5MHz	QPSK	25	0	4507.4	5121.00
		16-QAM	25	0	4517.0	5141.00
	10MHz	QPSK	50	0	9016.3	10280.00
		16-QAM	50	0	9005.7	10289.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 13	5MHz	QPSK	25	0	4537.9	5255.00
		16-QAM	25	0	4535.3	5214.00
	10MHz	QPSK	50	0	8900.6	9712.00
		16-QAM	50	0	8894.0	9712.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 17	5MHz	QPSK	25	0	4562.2	6291.00
		16-QAM	25	0	4549.9	5776.00
	10MHz	QPSK	50	0	9088.9	10284.00
		16-QAM	50	0	9087.1	10284.00

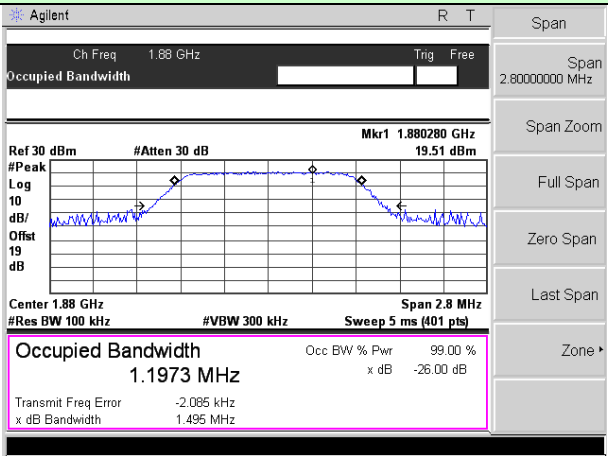
EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 25	1.4MHz	QPSK	6	0	1193.8	1484.00
		16-QAM	6	0	1195.9	1504.00
	3MHz	QPSK	15	0	2740.8	3078.00
		16-QAM	15	0	2744.8	3078.00
	5MHz	QPSK	25	0	4533.1	5150.00
		16-QAM	25	0	4538.5	5165.00
	10MHz	QPSK	50	0	8929.8	9721.00
		16-QAM	50	0	8932.3	9650.00
	15MHz	QPSK	75	0	13380.8	14640.00
		16-QAM	75	0	13406.2	14646.00
	20MHz	QPSK	100	0	17773.4	18726.00
		16-QAM	100	0	17775.2	18808.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 38	5MHz	QPSK	25	0	4527.6	6549.00
		16-QAM	25	0	4527.7	6044.00
	10MHz	QPSK	50	0	8962.9	14005.00
		16-QAM	50	0	8964.5	11700.00
	15MHz	QPSK	75	0	13449.8	22289.00
		16-QAM	75	0	13458.9	21867.00
	20MHz	QPSK	100	0	17857.8	25277.00
		16-QAM	100	0	17847.8	23134.00

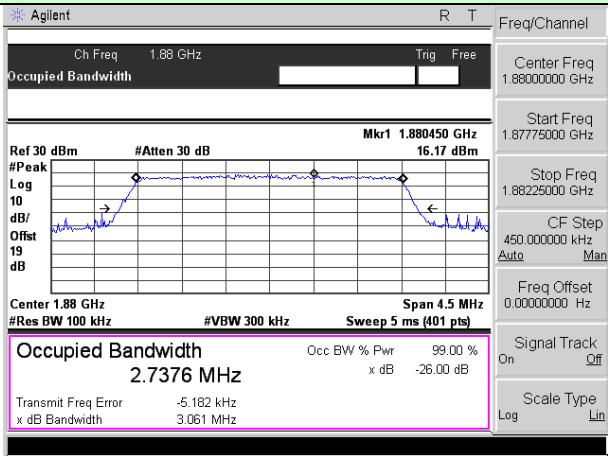
EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 41	5MHz	QPSK	25	0	4519.5	5049.00
		16-QAM	25	0	4515.6	5017.00
	10MHz	QPSK	50	0	8951.4	9561.00
		16-QAM	50	0	8956.9	9513.00
	15MHz	QPSK	75	0	13437.4	18105.00
		16-QAM	75	0	13441.3	18899.00
	20MHz	QPSK	100	0	17827.9	18893.00
		16-QAM	100	0	17835.0	18880.00

Test plot as follows:

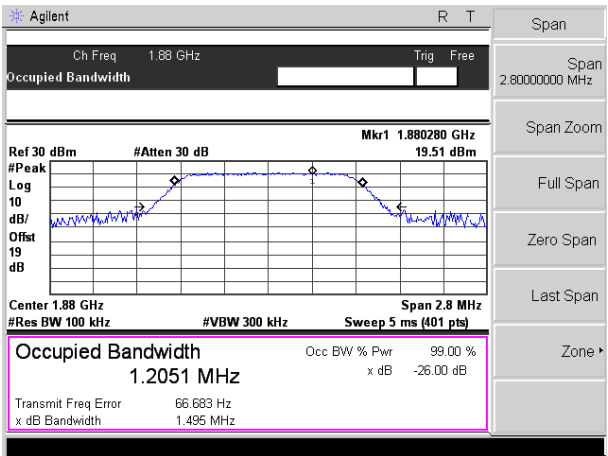
Test Mode: LTE Band 2	Test Mode: LTE Band 2
Channel Bandwidth: 1.4MHz	Channel Bandwidth: 3MHz



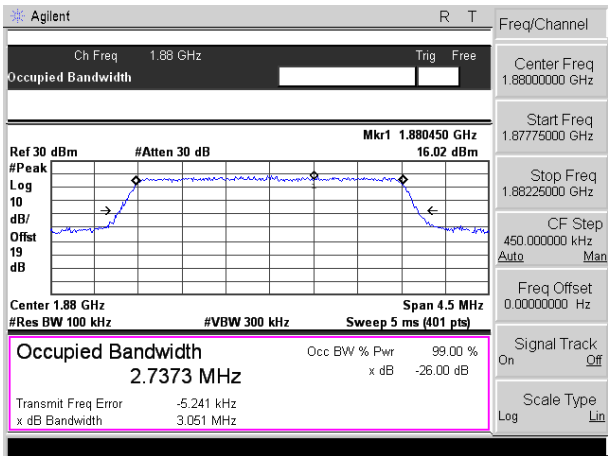
QPSK



QPSK



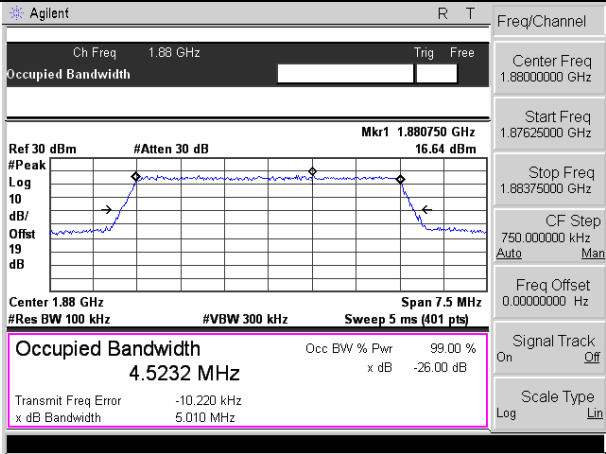
16-QAM



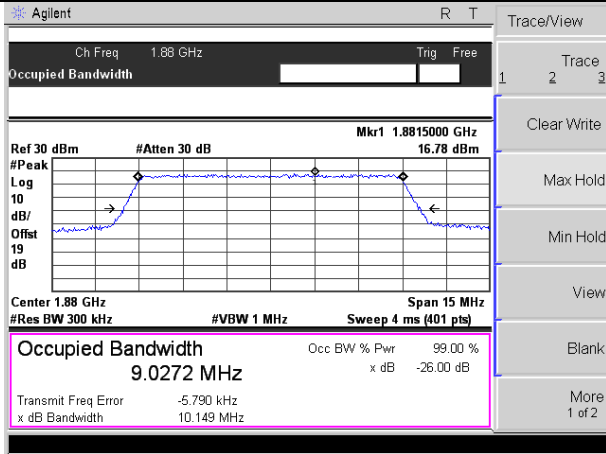
16-QAM

Test Mode: LTE Band 2
Channel Bandwidth: 5MHz

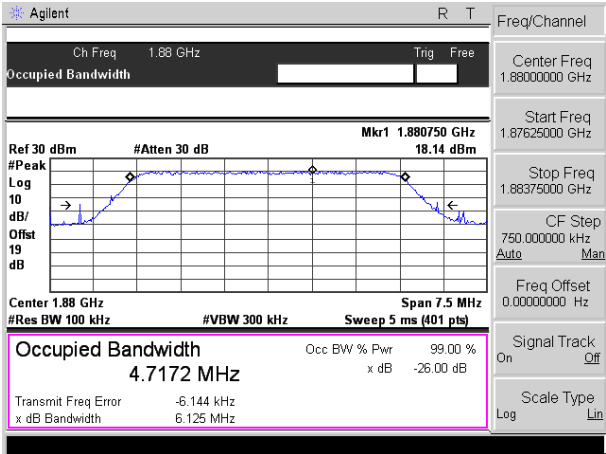
Test Mode: LTE Band 2
Channel Bandwidth: 10MHz



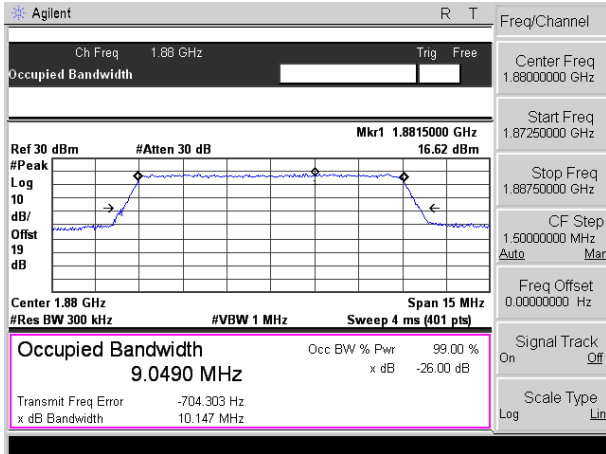
QPSK



QPSK



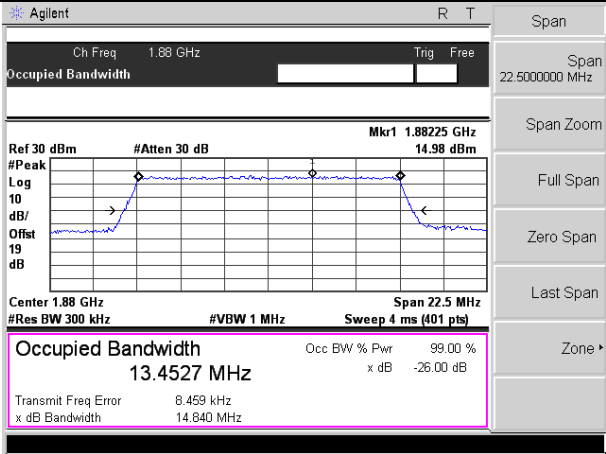
16-QAM



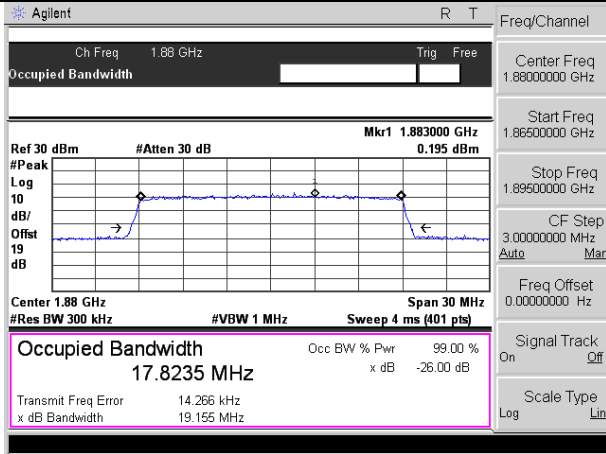
16-QAM

Test Mode: LTE Band 2
Channel Bandwidth: 15MHz

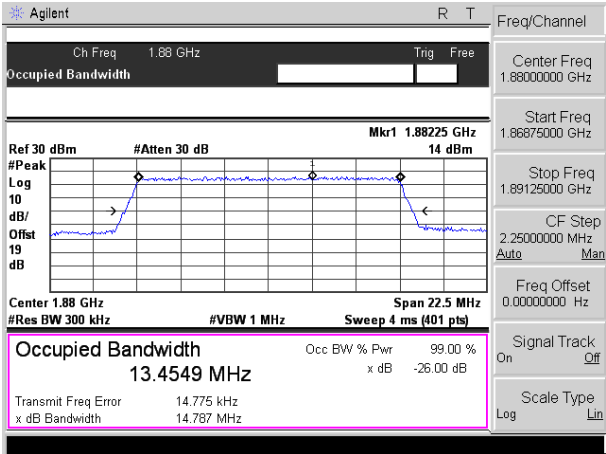
Test Mode: LTE Band 2
Channel Bandwidth: 20MHz



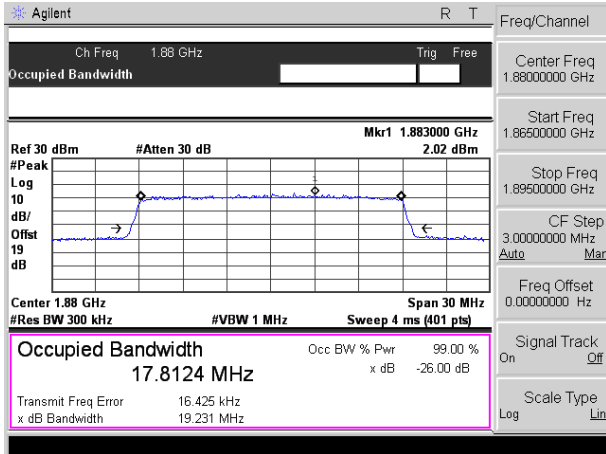
QPSK



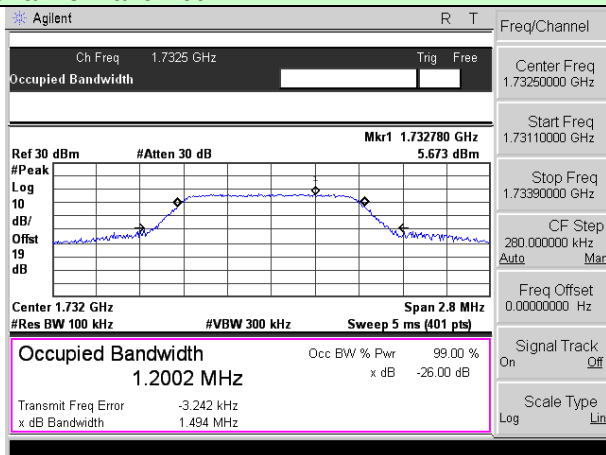
QPSK



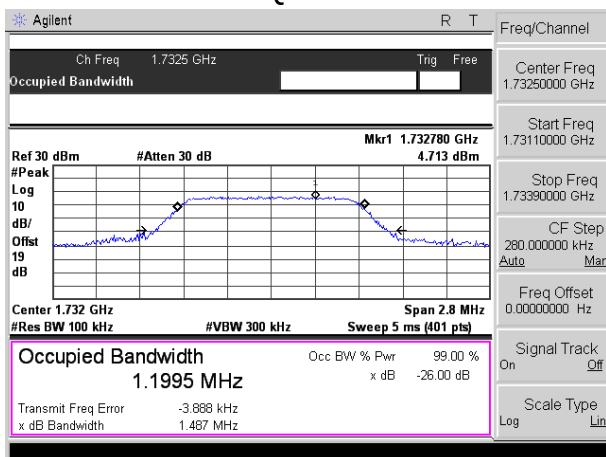
16-QAM



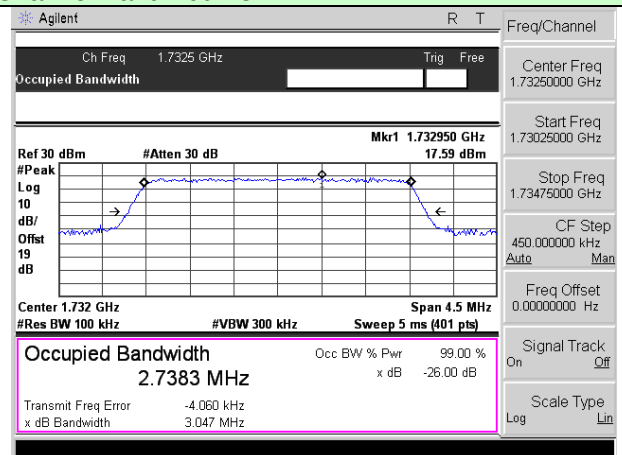
16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 1.4MHz

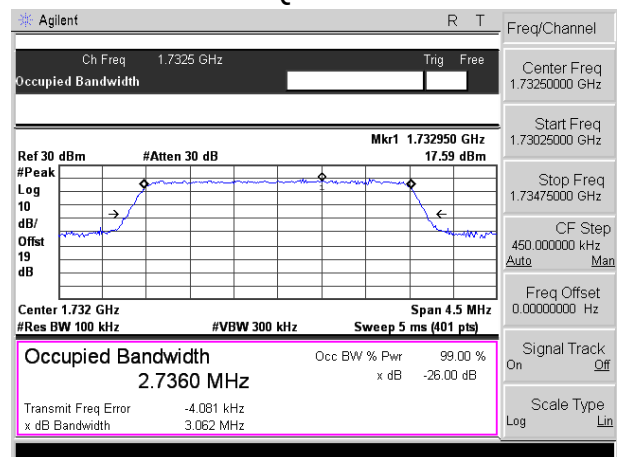
QPSK



16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 3MHz

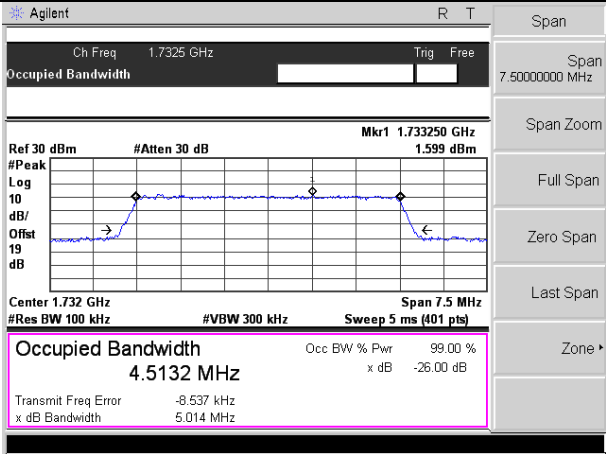
QPSK



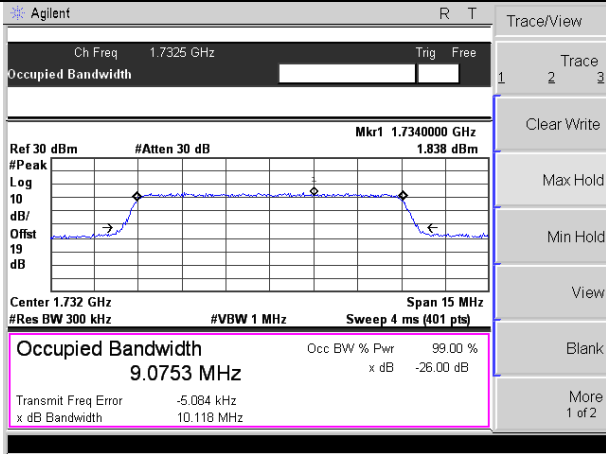
16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 5MHz

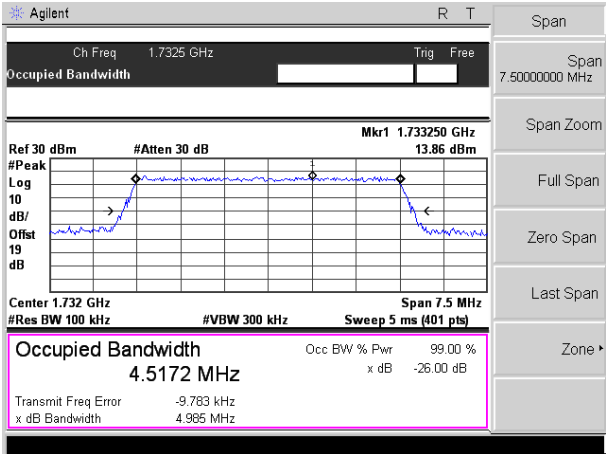
Test Mode: LTE Band 4
Channel Bandwidth: 10MHz



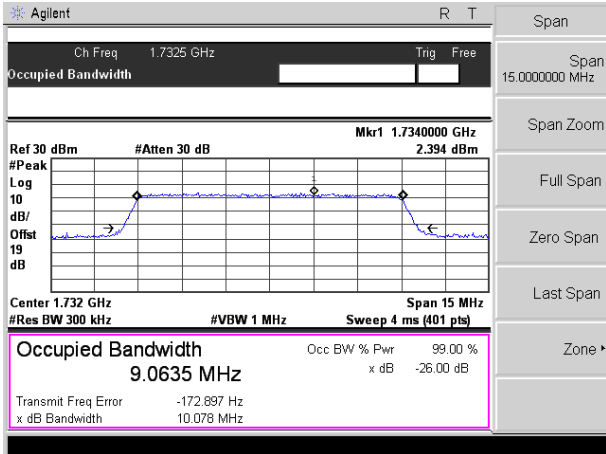
QPSK



QPSK



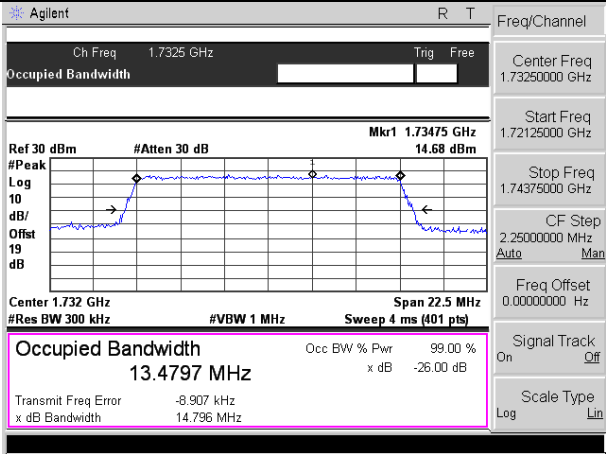
16-QAM



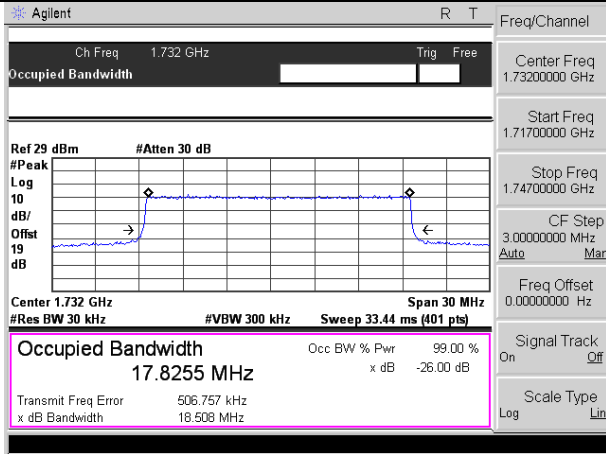
16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 15MHz

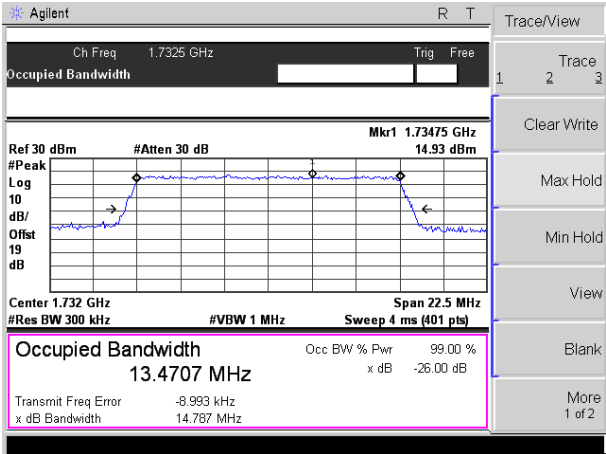
Test Mode: LTE Band 4
Channel Bandwidth: 20MHz



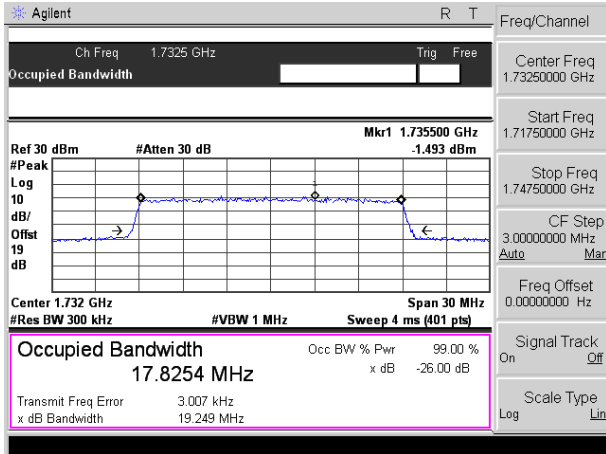
QPSK



QPSK



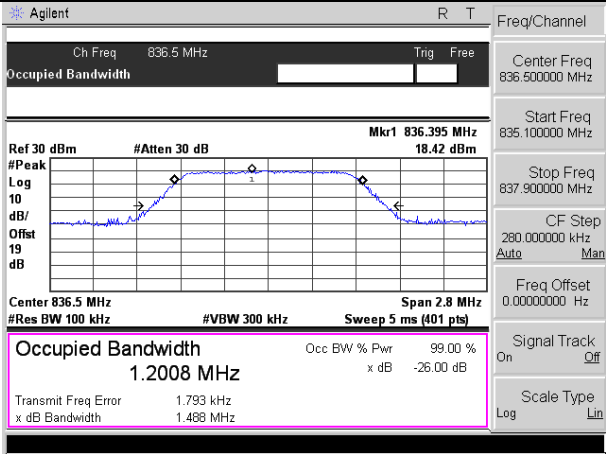
16-QAM



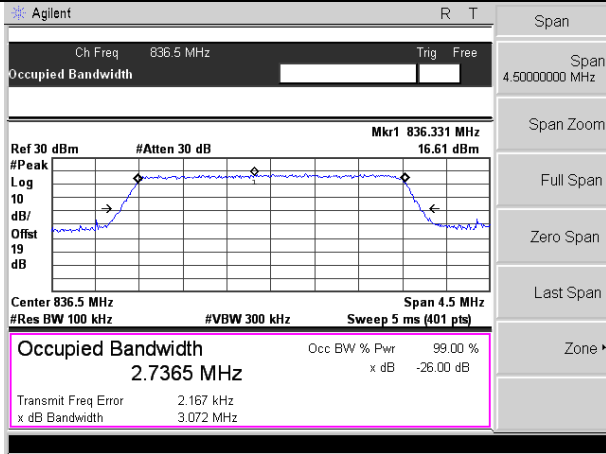
16-QAM

Test Mode: LTE Band 5
Channel Bandwidth: 1.4MHz

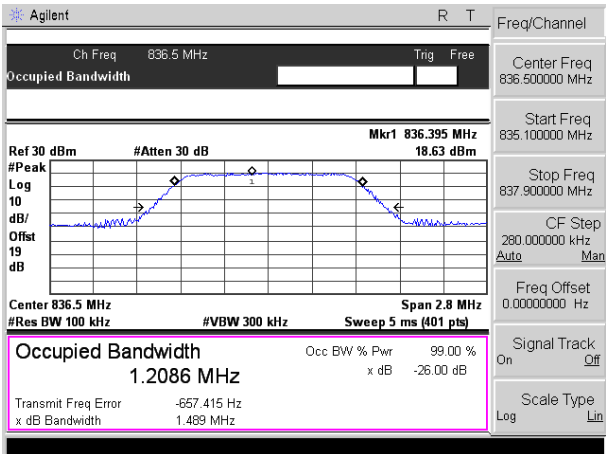
Test Mode: LTE Band 5
Channel Bandwidth: 3MHz



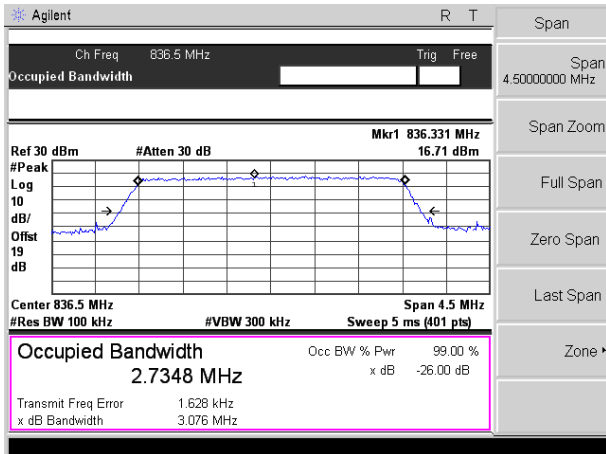
QPSK



QPSK

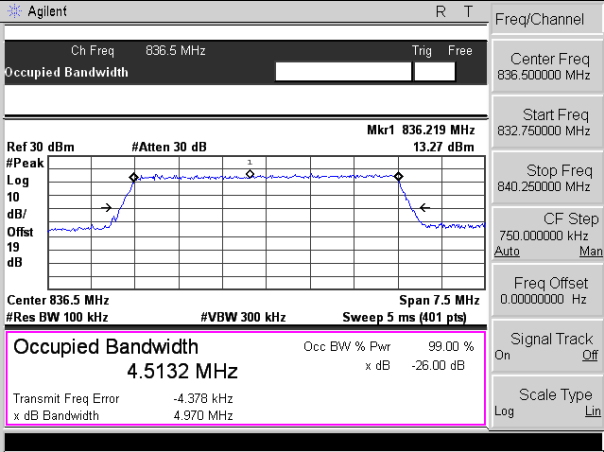


16-QAM

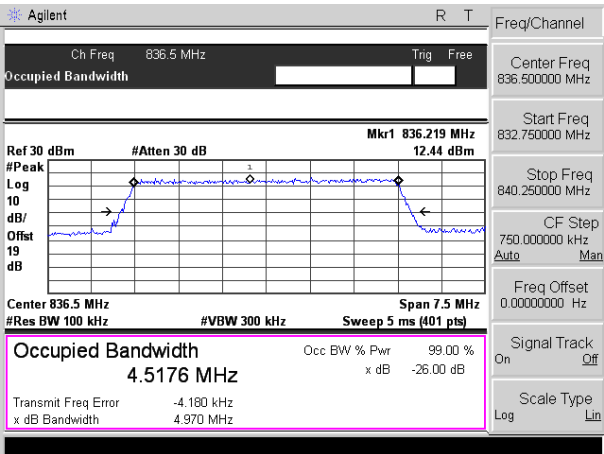


16-QAM

Test Mode: LTE Band 5
Channel Bandwidth: 5MHz

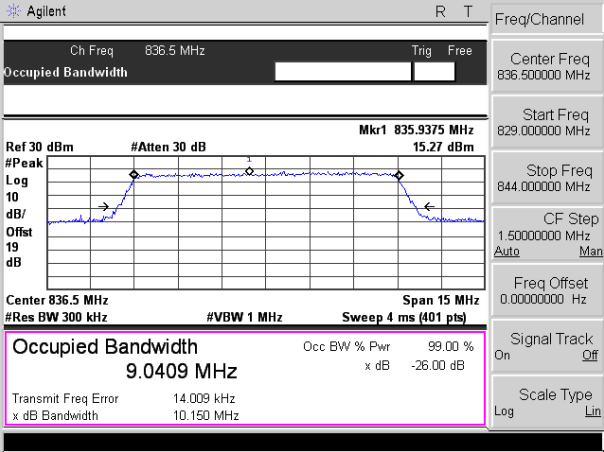


QPSK

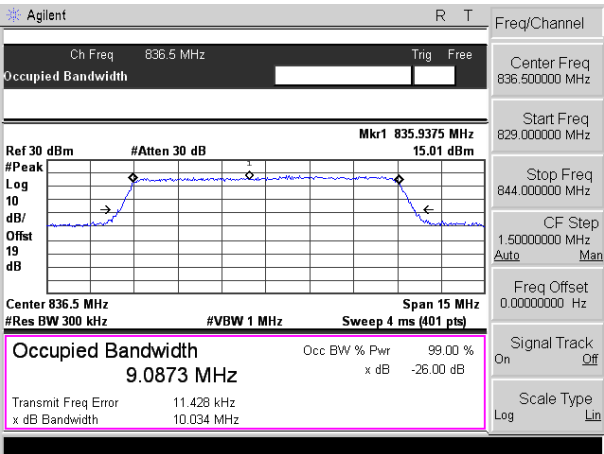


16-QAM

Test Mode: LTE Band 5
Channel Bandwidth: 10MHz



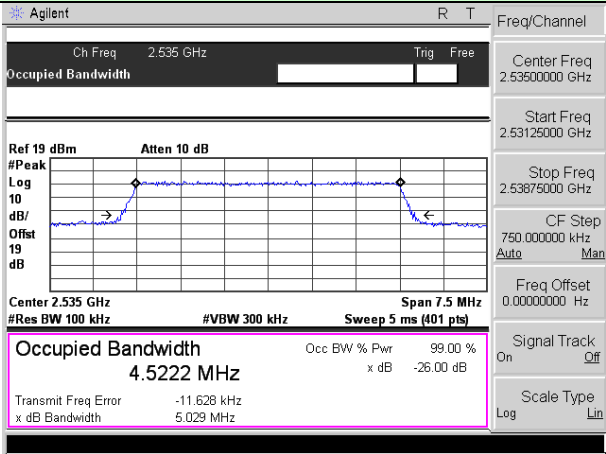
QPSK



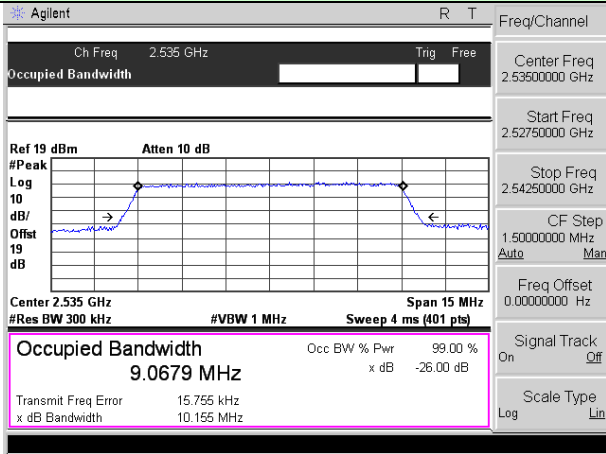
16-QAM

Test Mode: LTE Band 7
Channel Bandwidth: 5MHz

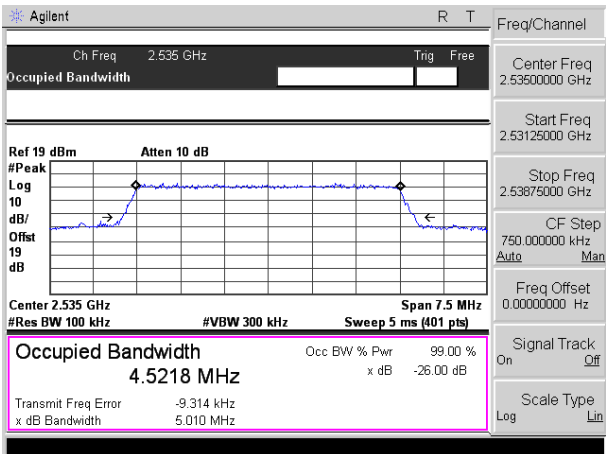
Test Mode: LTE Band 7
Channel Bandwidth: 10MHz



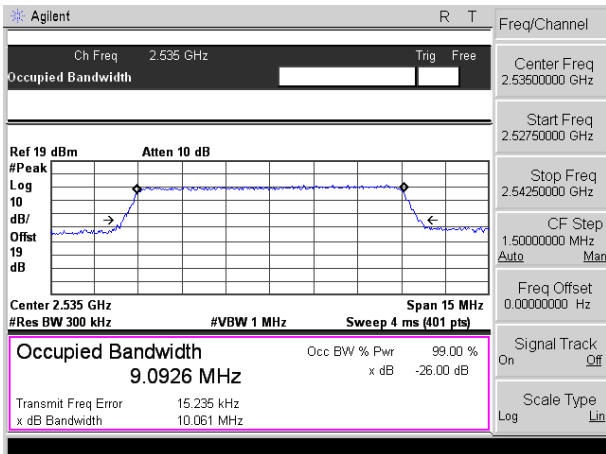
QPSK



QPSK



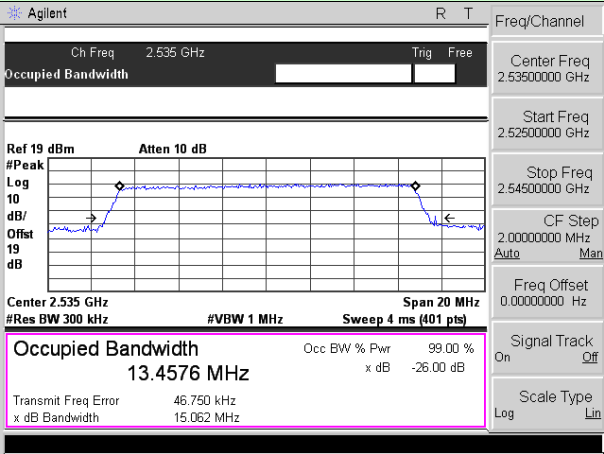
16-QAM



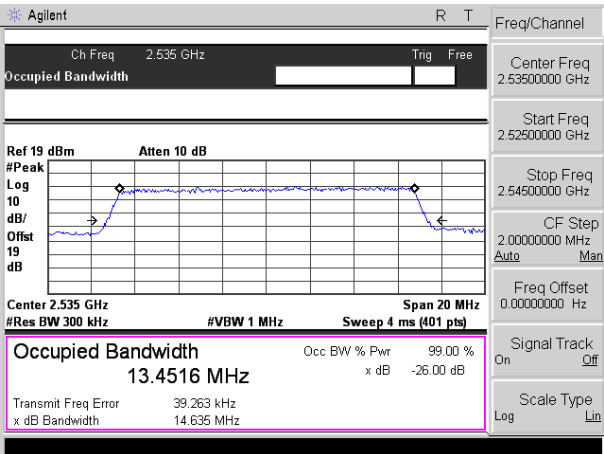
16-QAM

Test Mode: LTE Band 7
Channel Bandwidth: 15MHz

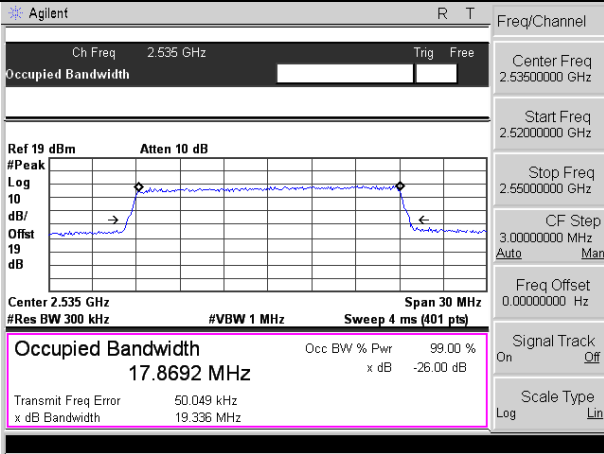
Test Mode: LTE Band 7
Channel Bandwidth: 20MHz



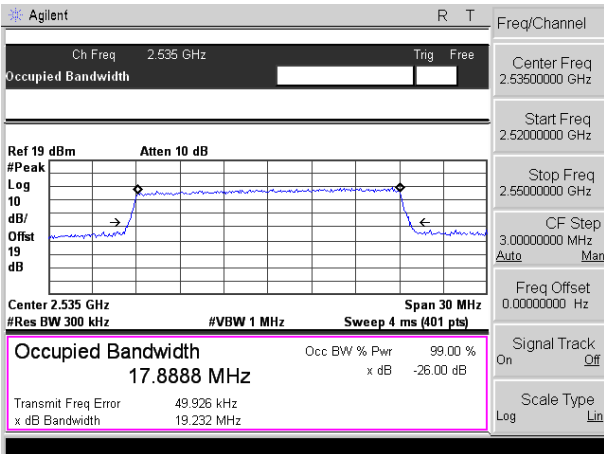
QPSK



16-QAM

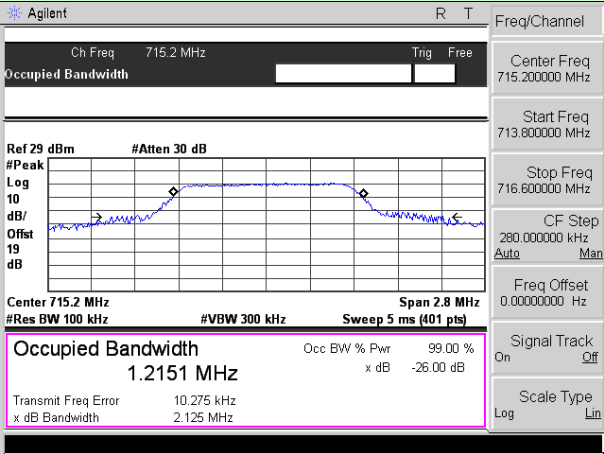


QPSK

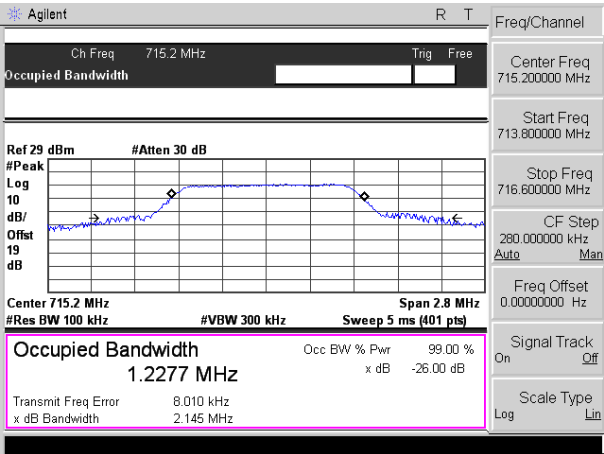


16-QAM

Test Mode: LTE Band 12
Channel Bandwidth: 1.4MHz

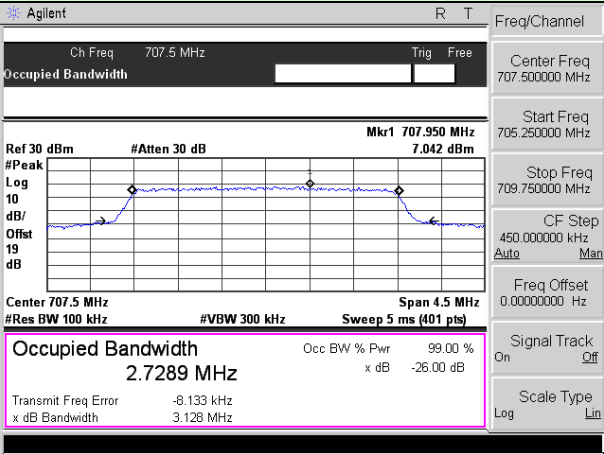


QPSK

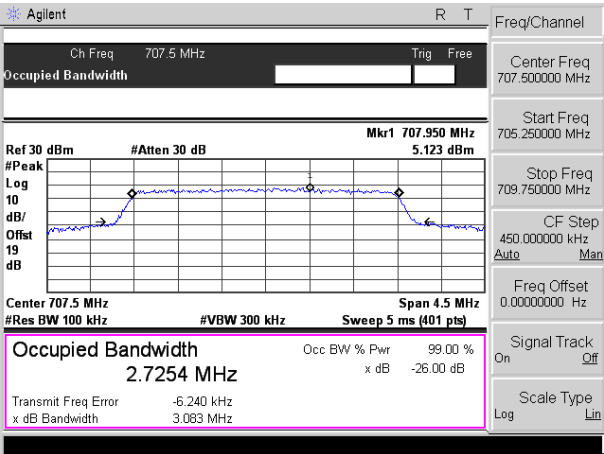


16-QAM

Test Mode: LTE Band 12
Channel Bandwidth: 3MHz

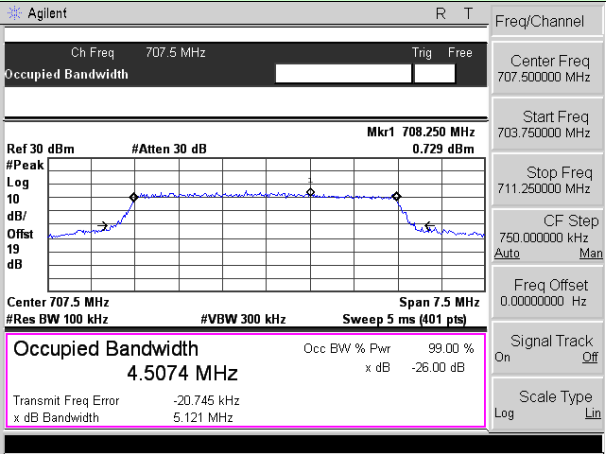


QPSK

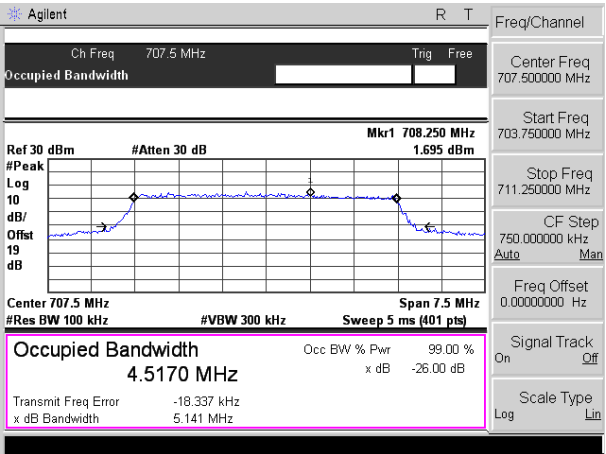


16-QAM

Test Mode: LTE Band 12
Channel Bandwidth: 5MHz

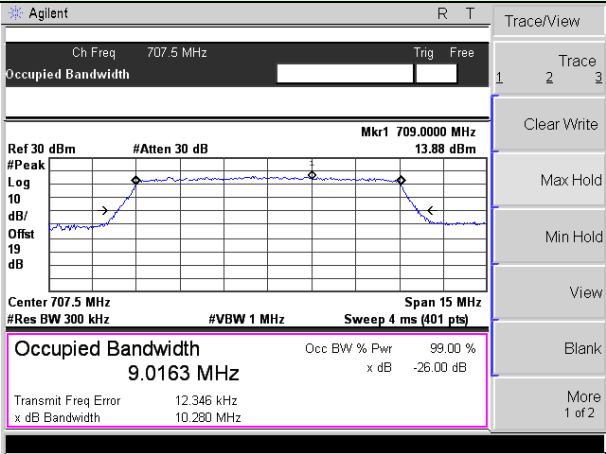


QPSK

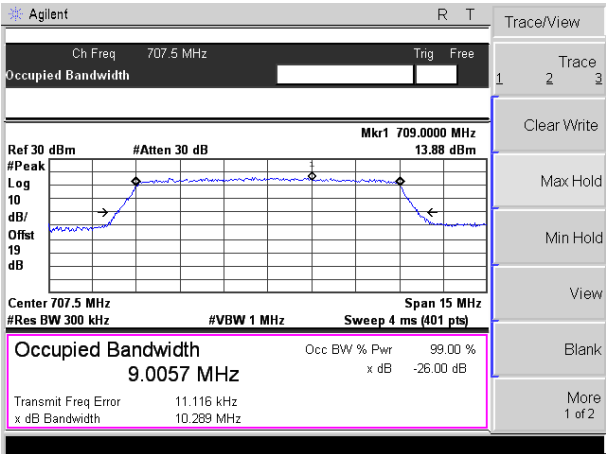


16-QAM

Test Mode: LTE Band 12
Channel Bandwidth: 10MHz

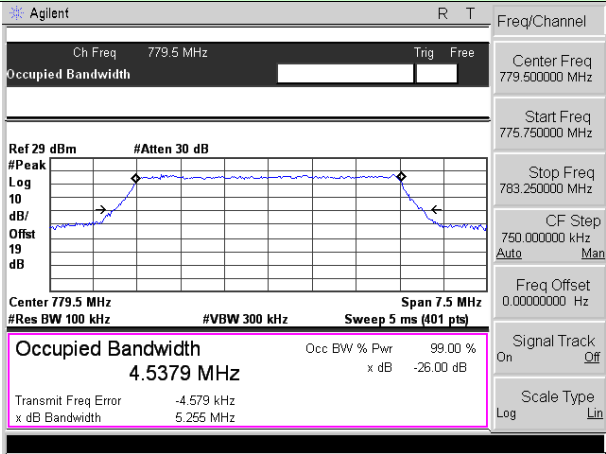


QPSK

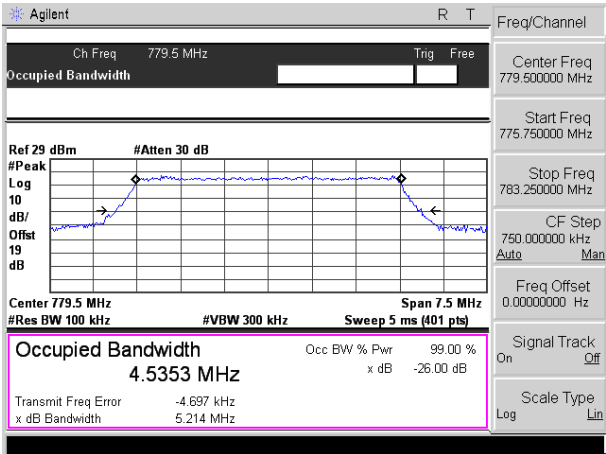


16-QAM

Test Mode: LTE Band 13
Channel Bandwidth: 5MHz

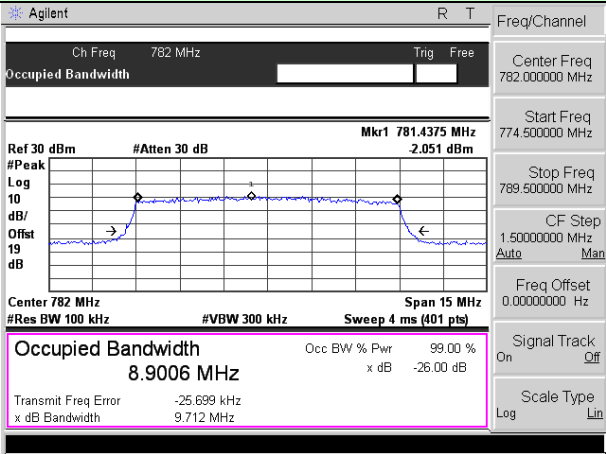


QPSK

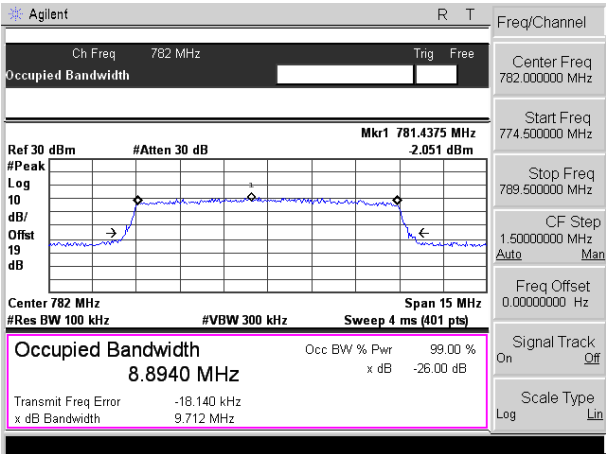


16-QAM

Test Mode: LTE Band 13
Channel Bandwidth: 10MHz

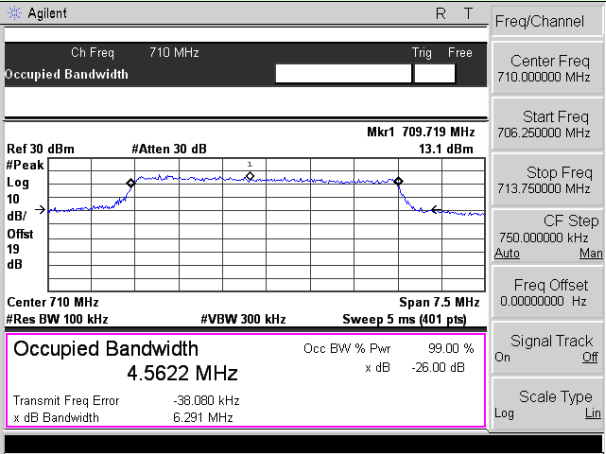


QPSK

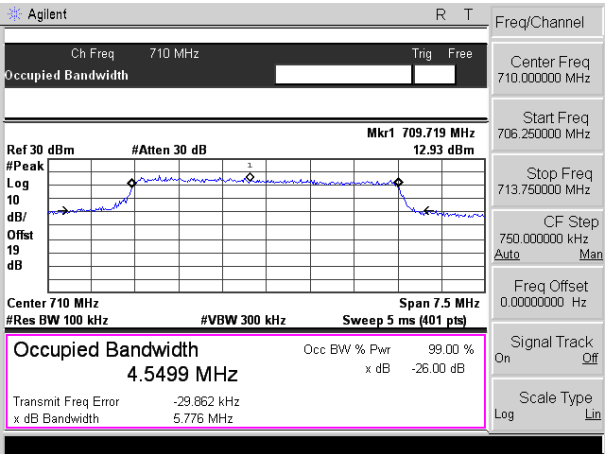


16-QAM

Test Mode: LTE Band 17
Channel Bandwidth: 5MHz

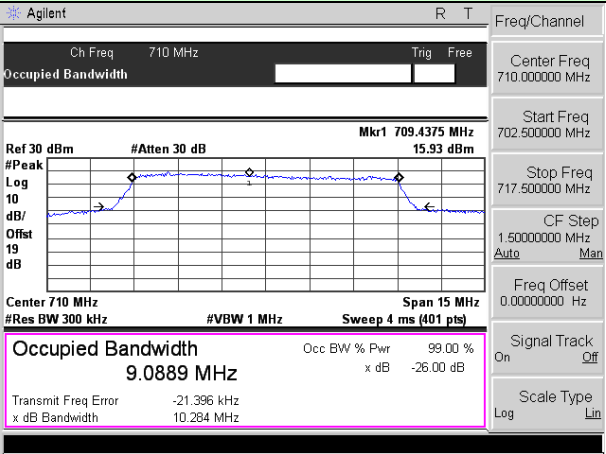


QPSK

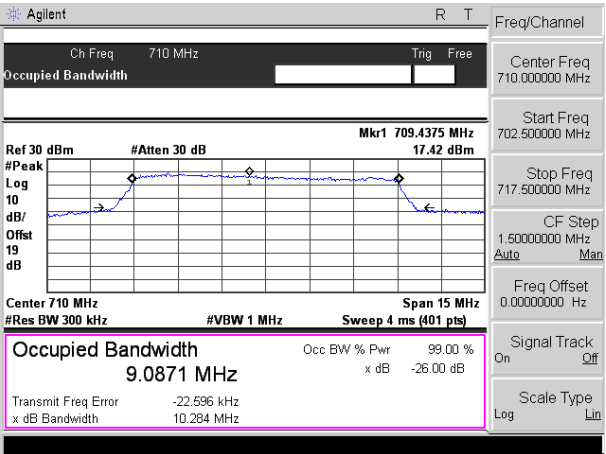


16-QAM

Test Mode: LTE Band 17
Channel Bandwidth: 10MHz

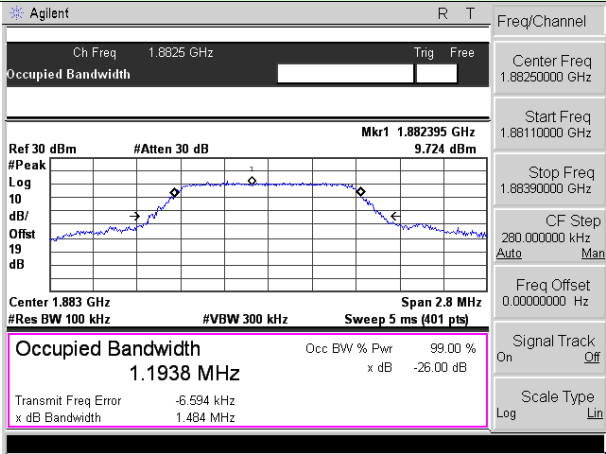


QPSK

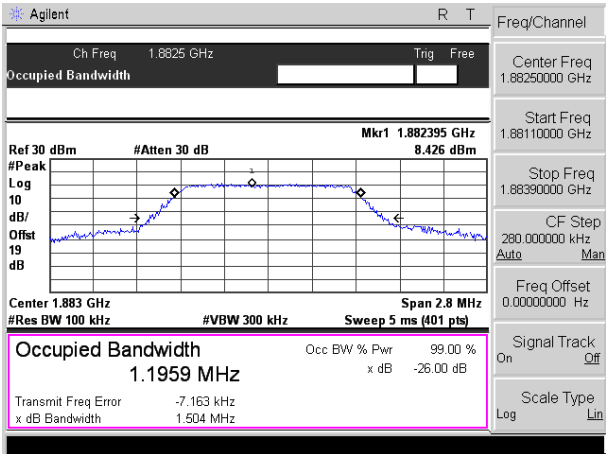


16-QAM

Test Mode: LTE Band 25
Channel Bandwidth: 1.4MHz

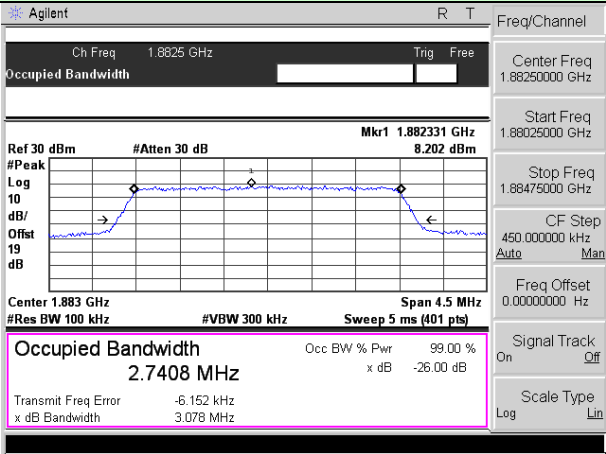


QPSK

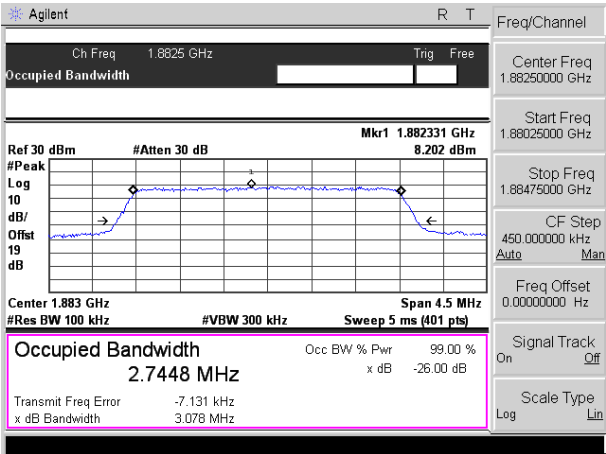


16-QAM

Test Mode: LTE Band 25
Channel Bandwidth: 3MHz

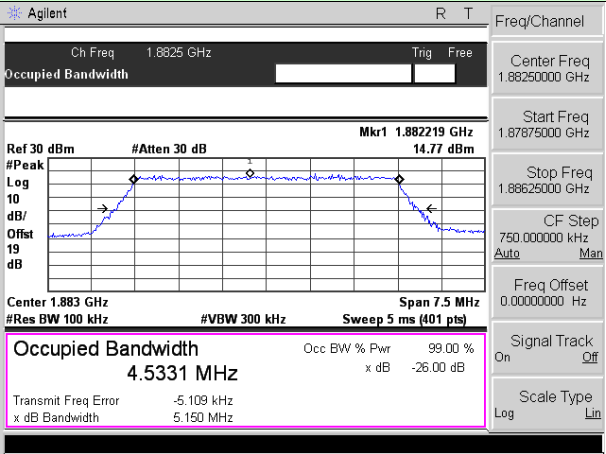


QPSK

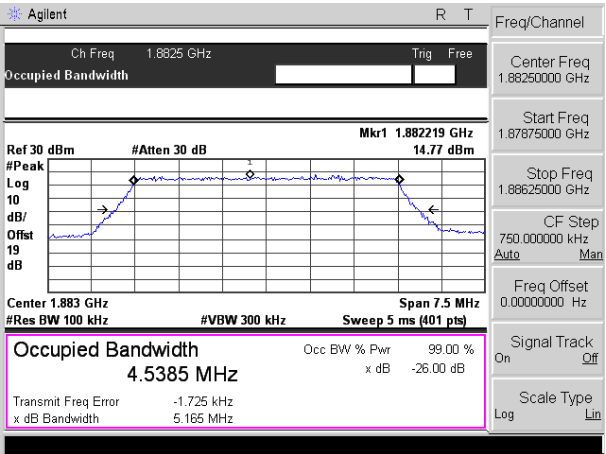


16-QAM

Test Mode: LTE Band 25
Channel Bandwidth: 5MHz

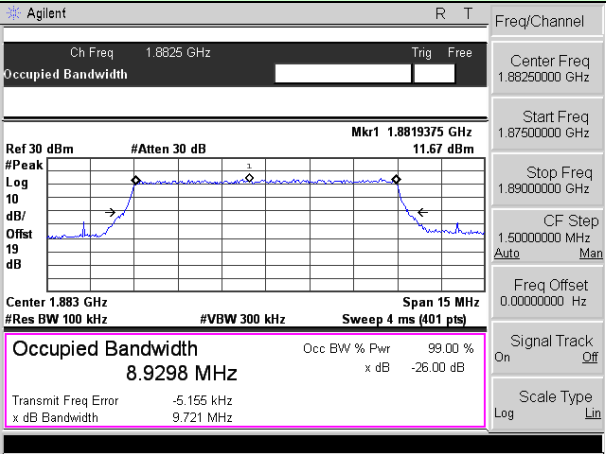


QPSK

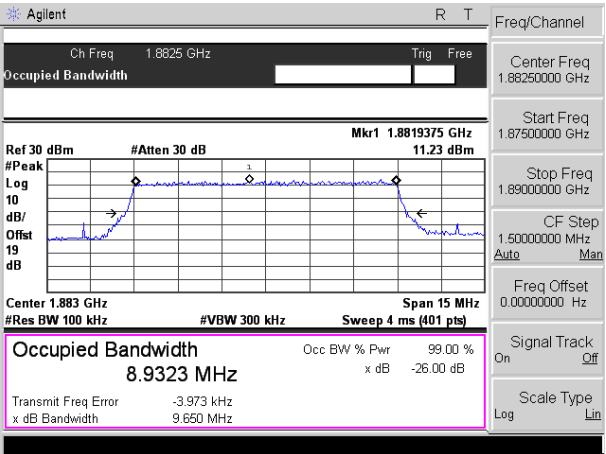


16-QAM

Test Mode: LTE Band 25
Channel Bandwidth: 10MHz

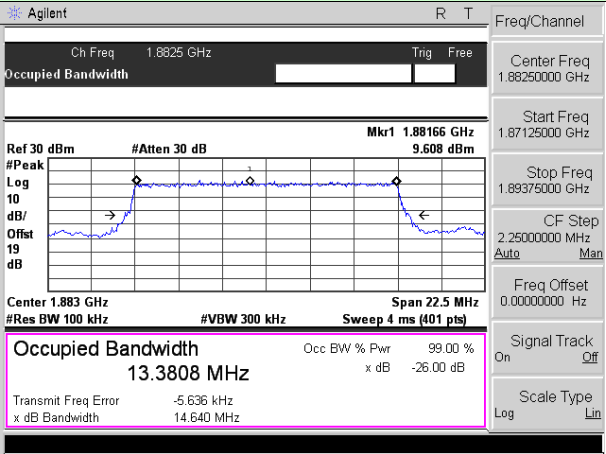


QPSK

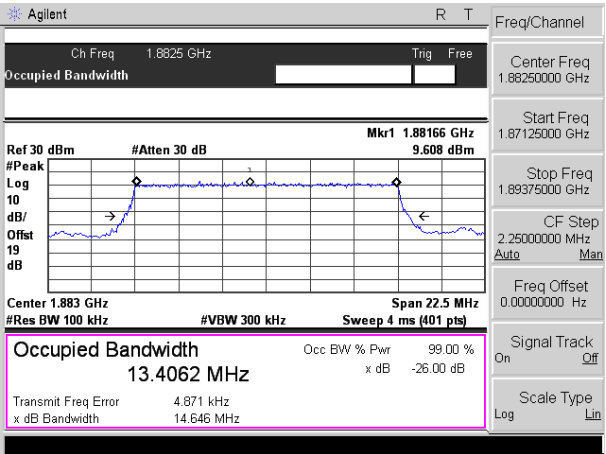


16-QAM

Test Mode: LTE Band 25
Channel Bandwidth: 15MHz

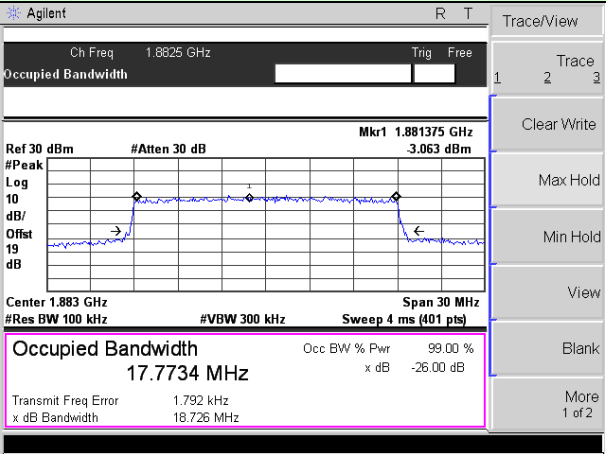


QPSK

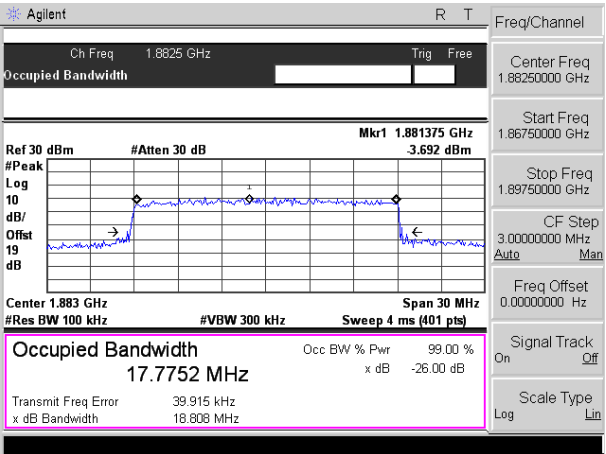


16-QAM

Test Mode: LTE Band 25
Channel Bandwidth: 20MHz

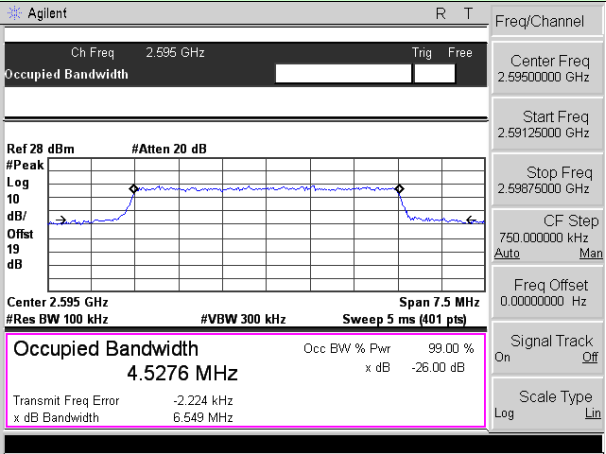


QPSK

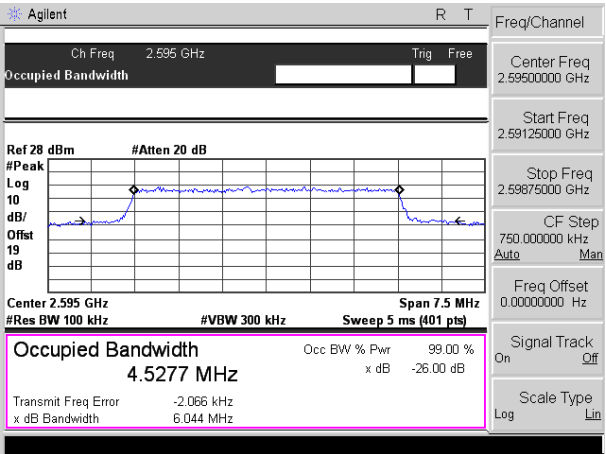


16-QAM

Test Mode: LTE Band 38
Channel Bandwidth: 5MHz

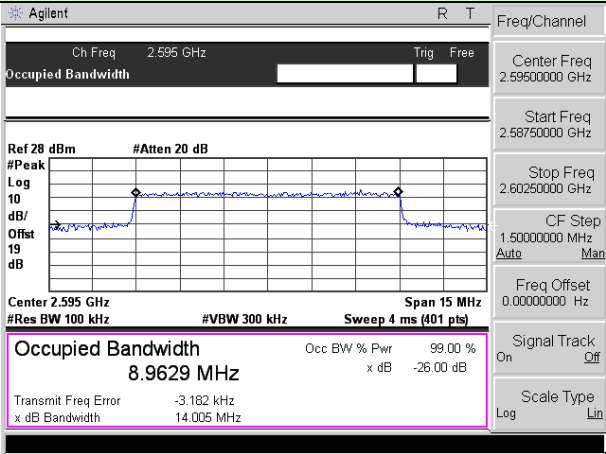


QPSK

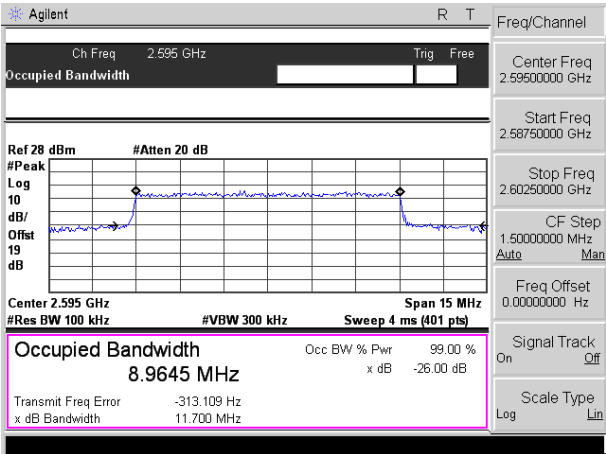


16-QAM

Test Mode: LTE Band 38
Channel Bandwidth: 10MHz



QPSK



16-QAM