



RF TEST REPORT

Applicant Quectel Wireless Solutions Co., Ltd

FCC ID XMR201910BG95M3

Product LTE Cat M1 & Cat NB2 & EGPRS Module

Brand Quectel

Model BG95-M3, BG95-M3 MINIPCIE

Report No. R2106A0549-R3

Issue Date September 6, 2021

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2020)/ FCC CFR47 Part 27C (2020)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	RF Power Output and Effective Isotropic Radiated Power	2.1046 /27.50(d)(4) /27.50(b)(10) /27.50(c)(10)	PASS
2	Occupied Bandwidth	2.1049	PASS
3	Band Edge Compliance	27.53(h) /27.53(g) /27.53(f) /27.53(c)	PASS
4	Peak-to-Average Power Ratio	27.50(d)/KDB971168 D01(5.7)	PASS
5	Frequency Stability	2.1055 / 27.54	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 /27.53(h) /27.53(g) /27.53(f) /27.53(c)	PASS
7	Radiates Spurious Emission	2.1053 /27.53(h) /27.53(g) /27.53(f) /27.53(c)	PASS
Date of Testing(original): June 5, 2020 (variant): July 14, 2021 ~ August 9, 2021			
Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			



BG95-M3, BG95-M3 MINIPCIE (Report No.: R2106A0549-R3) is a variant model of BG95-M3, BG95-M3 MINIPCIE (Report No.: R2006A0361-R3V1). The product only changes PA components. Test values duplicated from Original for variant. Test items tested see the table below.

Test Case	original	variant
RF Power Output and Effective Isotropic Radiated Power	PASS	Retest
Occupied Bandwidth	PASS	Refer to original
Band Edge Compliance	PASS	Refer to original
Peak-to-Average Power Ratio	PASS	Refer to original
Frequency Stability	PASS	Refer to original
Spurious Emissions at Antenna Terminals	PASS	Refer to original
Radiates Spurious Emission	PASS	Retest(LTE band13)

The detailed product change description please refers to the Difference Declaration Letter.



1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3 Testing Location

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China
City:	Shanghai
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2 General Description of Equipment under Test

Client Information

Applicant	Quectel Wireless Solutions Co., Ltd
Applicant address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer	Quectel Wireless Solutions Co., Ltd
Manufacturer address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

General information

EUT Description			
Model	BG95-M3, BG95-M3 MINIPCIE		
IMEI	BG95-M3: 864475048391303 BG95-M3 MINIPCIE: 864475048389810		
Hardware Version	R2.1		
Software Version	BG95M3LAR02A03		
Power Supply	External power supply		
Antenna Type	External Antenna		
Antenna Gain	LTE Band 4: 1.9dBi LTE Band 12: 4.0dBi LTE Band 13: 4.5dBi LTE Band 66: 2.0dBi LTE Band 85: 4.0dBi		
Test Mode(s)	LTE Band 4/12/13/66/85		
Test Modulation	(LTE)QPSK 16QAM		
LTE Category	M1		
Maximum E.I.R.P	LTE Band 4:	23.59dBm	
	LTE Band 66:	23.56dBm	
Maximum E.R.P.	LTE Band 12:	23.38dBm	
	LTE Band 13:	24.01dBm	
	LTE Band 85	23.43dBm	
Rated Power Supply Voltage:	3.8V		
Extreme Voltage	Minimum: 3.3V Maximum: 4.3V		
Extreme Temperature	Lowest: -40°C Highest: +85°C		
Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 12	699 ~ 716	729 ~ 746
	LTE Band 13	777 ~ 787	746 ~ 756
	LTE Band 66	1710 ~ 1780	2110 ~ 2180



	LTE Band 85	698 ~ 716	728 ~ 746
Note: 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. 2. The series model number is: BG95-M3 MINIPCIE. The difference of these models are have different marketing requirement.			



3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR47 Part 27C (2019)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2019)

KDB 971168 D01 Power Meas License Digital Systems v03r01

4 Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for LTE Band 4/12/13/66/85:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 85	-	-	O	O	-	-	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 4	O	O	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	-	O	-
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	-	O	-
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 85	-	-	O	O	-	-	O	O	-	-	O	-	O	-
Band Edge Compliance	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 12	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 13	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 85	-	-	O	O	-	-	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 4	O	O	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 12	O	O	O	O	-	-	O	O	-	-	O	-	O	-
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	-	O	-
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	-	O	-
	LTE 85	-	-	O	O	-	-	O	O	-	-	O	-	O	-
Frequency Stability	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 12	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O



	LTE 85	-	-	O	O	-	-	O	O	O	O	O	O	O	O
Spurious Emissions at Antenna Terminals	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 12	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 66	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 85	-	-	O	O	-	-	O	-	O	-	-	O	O	O
Radiates Spurious Emission	LTE 4	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 12	O	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	-	O	-
	LTE 66	O	-	O	-	-	O	O	-	O	-	-	-	O	-
	LTE 85	-	-	O	O	-	-	O	-	O	-	-	-	O	-
Note	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing.														

5 Test Case Results

5.1 RF Power Output and Effective Isotropic Radiated Power

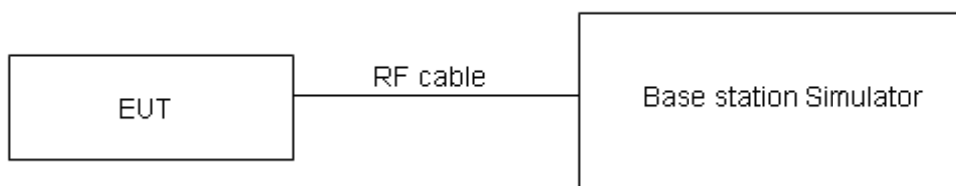
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=0.4$ dB.



Test Results

Original

LTE Band 4	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)	
				QPSK	16QAM
1.4MHz	19957/1710.7	0	1#0	20.83	19.76
		0	6#0	18.78	19.04
	20175/1732.5	0	1#0	20.57	19.62
		0	6#0	18.52	18.54
	20393/1754.3	0	1#5	19.92	19.75
		0	6#0	18.63	18.48
3MHz	19965/1711.5	0	1#0	20.41	20.02
		0	6#0	18.71	18.78
	20175/1732.5	0	1#0	20.32	19.37
		0	6#0	18.71	18.94
	20385/1753.5	1	1#5	20.15	19.15
		1	6#0	18.81	19.01
5MHz	19975/1712.5	0	1#0	20.39	20.51
		0	6#0	19.81	19.91
	20175/1732.5	0	1#0	20.28	20.39
		0	6#0	19.73	19.67
	20375/1752.5	3	1#5	20.11	20.17
		3	6#0	19.72	19.69
10MHz	20000/1715	0	1#0	20.38	20.49
		0	4#0	20.27	20.14
	20175/1732.5	0	1#0	20.16	20.24
		0	4#0	20.12	19.98
	20350/1750	7	1#5	19.94	20.07
		7	4#2	20.04	19.91
15MHz	20025/1717.5	0	1#0	20.33	20.48
		0	6#0	20.27	20.42
	20175/1732.5	0	1#0	20.16	20.31
		0	6#0	20.12	20.24
	20325/1747.5	11	1#5	19.97	20.11
		11	6#0	20.04	20.11
20MHz	20050/1720	0	1#0	20.32	20.46
		0	6#0	20.19	20.36
	20175/1732.5	0	1#0	20.24	20.38
		0	6#0	20.09	20.21
	20300/1745	15	1#5	20.11	20.14
		15	6#0	20.11	20.16



LTE Band 12	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)	
				QPSK	16QAM
1.4MHz	23017/699.7	0	1#0	20.02	19.76
		0	6#0	18.64	18.62
	23095/707.5	0	1#0	19.85	19.73
		0	6#0	18.51	18.42
	23173/715.3	0	1#5	20.46	19.32
		0	6#0	18.56	19.03
3MHz	23025/700.5	0	1#0	20.25	19.76
		0	6#0	18.69	18.61
	23095/707.5	0	1#0	20.22	20.01
		0	6#0	18.47	18.58
	23165/714.5	1	1#5	20.21	19.81
		1	6#0	18.55	18.63
5MHz	23035/701.5	3	1#0	20.19	20.39
		0	6#0	19.67	19.82
	23095/707.5	0	1#0	20.01	20.21
		0	6#0	19.60	19.73
	23155/713.5	0	1#5	19.96	20.19
		3	6#0	19.61	19.77
10MHz	23060/704	3	1#0	20.21	20.41
		0	4#0	20.23	20.07
	23095/707.5	0	1#0	20.16	20.30
		0	4#0	20.07	19.95
	23130/711	4	1#5	19.91	20.13
		7	4#2	20.15	19.90

LTE Band 13	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)	
				QPSK	16QAM
5MHz	23205/779.5	0	1#0	20.18	20.53
		0	6#0	19.95	20.03
	23230/782	0	1#0	20.31	19.91
		0	6#0	19.81	20.02
	23255/784.5	3	1#5	20.02	20.43
		3	6#0	19.82	19.84
10MHz	23230/782	0	1#0	20.11	20.53
		0	4#0	19.84	19.57



LTE Band 66	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)	
				QPSK	16QAM
1.4MHz	131979/1710.7	0	1#0	20.18	19.66
		0	6#0	18.38	18.49
	132322/1745	0	1#0	19.80	19.47
		0	6#0	18.34	18.08
	132665/1779.3	0	1#5	19.61	19.78
		0	6#0	18.50	18.33
3MHz	131987/1711.5	0	1#0	19.97	19.57
		0	6#0	18.32	18.25
	132322/1745	0	1#0	19.80	19.55
		0	6#0	18.20	18.12
	132657/1778.5	1	1#5	19.84	19.69
		1	6#0	18.52	18.35
5MHz	131997/1712.5	0	1#0	19.89	20.20
		0	6#0	19.35	19.36
	132322/1745	0	1#0	19.73	20.04
		0	6#0	19.18	19.29
	132647/1777.5	0	1#5	19.84	20.11
		3	6#0	19.55	19.57
10MHz	132022/1715	3	1#0	19.95	20.15
		0	4#0	19.88	19.79
	132022/1745	0	1#0	19.76	19.99
		0	4#0	19.83	19.58
	132622/1775	4	1#5	19.70	20.02
		7	4#2	19.87	19.81
15MHz	132047/1717.5	3	1#0	19.92	20.18
		0	6#0	19.84	19.87
	132322/1745	0	1#0	19.73	20.02
		0	6#0	19.79	19.83
	132597/1772.5	8	1#5	19.85	20.09
		11	6#0	19.94	19.95
20MHz	132072/1720	3	1#0	19.90	20.19
		0	6#0	19.81	19.94
	132322/1745	0	1#0	19.86	20.08
		0	6#0	19.82	19.91
	132572/1770	12	1#5	19.49	19.65
		15	6#0	19.52	19.67



LTE Band 85	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)	
				QPSK	16QAM
5MHz	134027/700.5	0	1#0	20.70	20.63
		0	6#0	20.46	20.54
	134092/707	0	1#0	21.18	20.71
		0	6#0	20.74	20.70
	134157/713.5	3	1#5	21.16	20.64
		3	6#0	20.71	20.63
10MHz	134052/703	0	1#0	20.91	20.37
		0	4#0	20.55	20.74
	134092/707	0	1#0	21.15	20.59
		0	4#0	21.08	21.29
	134132/711	0	1#5	21.28	20.62
		0	4#2	21.27	21.40

Variant

Band4	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)		EIRP(dBm)	
				QPSK	16QAM	QPSK	16QAM
1.4MHz	19957 1710.7	0	1#0	21.47	20.24	23.37	22.14
		0	6#0	19.33	19.38	21.23	21.28
	20175/1732.5	0	1#0	21.42	20.23	23.32	22.13
		0	6#0	19.27	19.26	21.17	21.16
	20393/1754.3	0	1#5	21.03	19.89	22.93	21.79
		0	6#0	19.13	19.10	21.03	21.00
3MHz	19965/1711.5	0	1#0	21.45	20.24	23.35	22.14
		0	6#0	19.28	19.35	21.18	21.25
	20175/1732.5	0	1#0	21.62	20.48	23.52	22.38
		0	6#0	19.32	19.42	21.22	21.32
	20385/1753.5	1	1#5	21.11	19.94	23.01	21.84
		0	6#0	19.14	19.15	21.04	21.05
5MHz	19975/1712.5	3	1#0	21.47	21.13	23.37	23.03
		0	6#0	20.27	20.48	22.17	22.38
	20175/1732.5	0	1#0	21.41	21.12	23.31	23.02
		0	6#0	21.41	21.58	23.31	23.48
	20375/1752.5	0	1#5	21.04	20.85	22.94	22.75
		0	6#0	20.06	20.34	21.96	22.24
10MHz	20000/1715	3	1#0	21.38	21.19	23.28	23.09
		0	4#0	21.38	21.05	23.28	22.95
	20175/1732.5	0	1#0	21.61	21.69	23.51	23.59
		0	4#0	21.33	21.35	23.23	23.25
	20350/1750	4	1#5	21.07	20.85	22.97	22.75
		7	4#2	20.99	20.73	22.89	22.63



15MHz	20025/1717.5	3	1#0	21.48	21.24	23.38	23.14
		0	6#0	21.42	21.59	23.32	23.49
	20175/1732.5	0	1#0	21.42	21.68	23.32	23.58
		0	6#0	21.30	21.33	23.20	23.23
	20325/1747.5	8	1#5	20.95	20.91	22.85	22.81
		11	6#0	21.23	21.41	23.13	23.31
20MHz	20050/1720	3	1#0	21.39	21.27	23.29	23.17
		0	6#0	21.43	21.55	23.33	23.45
	20175/1732.5	0	1#0	21.53	21.45	23.43	23.35
		0	6#0	21.25	21.33	23.15	23.23
	20300/1745	12	1#5	21.04	20.86	22.94	22.76
		15	6#0	21.26	21.42	23.16	23.32

Band12	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)		ERP(dBm)	
				QPSK	16QAM	QPSK	16QAM
1.4MHz	23017/699.7	0	1#0	21.38	20.35	23.23	22.20
		0	6#0	19.07	19.28	20.92	21.13
	23095/707.5	0	1#0	21.29	20.28	23.14	22.13
		0	6#0	18.99	19.07	20.84	20.92
	23173/715.3	0	1#5	20.99	19.96	22.84	21.81
		0	6#0	18.71	18.88	20.56	20.73
3MHz	23025/700.5	0	1#0	21.37	20.42	23.22	22.27
		0	6#0	19.10	19.26	20.95	21.11
	23095/707.5	0	1#0	21.28	20.06	23.13	21.91
		0	6#0	19.06	19.07	20.91	20.92
	23165/714.5	1	1#5	20.99	19.96	22.84	21.81
		0	6#0	18.84	18.92	20.69	20.77
5MHz	23035/701.5	3	1#0	21.40	21.11	23.25	22.96
		0	6#0	20.16	20.33	22.01	22.18
	23095/707.5	0	1#0	21.31	21.37	23.16	23.22
		0	6#0	20.04	20.07	21.89	21.92
	23155/713.5	0	1#5	21.08	20.77	22.93	22.62
		0	6#0	19.88	20.04	21.73	21.89
10MHz	23060/704	3	1#0	21.34	21.09	23.19	22.94
		0	4#0	21.15	20.63	23.00	22.48
	23095/707.5	0	1#0	21.37	21.53	23.22	23.38
		0	4#0	21.15	20.97	23.00	22.82
	23130/711	4	1#5	21.13	20.75	22.98	22.60
		7	4#2	20.71	20.26	22.56	22.11



Band13	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)		ERP(dBm)	
				QPSK	16QAM	QPSK	16QAM
5MHz	23205/779.5	3	1#0	21.52	21.08	23.87	23.43
		0	6#0	20.21	20.42	22.56	22.77
	23230/782	0	1#0	21.55	21.12	23.90	23.47
		0	6#0	20.29	20.50	22.64	22.85
	23255/784.5	0	1#5	21.31	21.22	23.66	23.57
		0	6#0	20.38	20.60	22.73	22.95
10MHz	23230/782	0	1#0	21.66	21.59	24.01	23.94
		0	4#0	21.18	20.23	23.53	22.58



Band66	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)		EIRP(dBm)	
				QPSK	16QAM	QPSK	16QAM
1.4MHz	131979/1710.7	0	1#0	21.47	20.34	23.47	22.34
		0	6#0	19.40	19.50	21.40	21.50
	132322/1745	0	1#0	21.24	20.05	23.24	22.05
		0	6#0	19.13	19.20	21.13	21.20
	132665/1779.3	0	1#5	21.44	20.35	23.44	22.35
		0	6#0	19.16	19.27	21.16	21.27
3MHz	131987/1711.5	0	1#0	21.44	20.27	23.44	22.27
		0	6#0	19.36	19.48	21.36	21.48
	132322/1745	0	1#0	21.35	20.42	23.35	22.42
		0	6#0	19.17	19.40	21.17	21.40
	132657/1778.5	1	1#5	21.30	20.40	23.30	22.40
		0	6#0	19.13	19.26	21.13	21.26
5MHz	131997/1712.5	3	1#0	21.46	21.23	23.46	23.23
		0	6#0	20.34	20.55	22.34	22.55
	132322/1745	0	1#0	21.40	21.25	23.40	23.25
		0	6#0	19.90	20.14	21.90	22.14
	132647/1777.5	0	1#5	21.08	20.75	23.08	22.75
		0	6#0	20.18	20.42	22.18	22.42
10MHz	132022/1715	3	1#0	21.39	21.18	23.39	23.18
		0	4#0	21.38	21.26	23.38	23.26
	132322/1745	0	1#0	21.40	21.39	23.40	23.39
		0	4#0	21.08	21.14	23.08	23.14
	132622/1775	4	1#5	21.40	20.80	23.40	22.80
		7	4#2	21.13	20.55	23.13	22.55
15MHz	132047/1717.5	3	1#0	21.50	21.24	23.50	23.24
		0	6#0	21.44	21.49	23.44	23.49
	132322/1745	0	1#0	21.45	21.56	23.45	23.56
		0	6#0	21.07	21.33	23.07	23.33
	132597/1772.5	8	1#5	21.12	20.87	23.12	22.87
		11	6#0	21.19	21.25	23.19	23.25
20MHz	132072/1720	3	1#0	21.33	21.21	23.33	23.21
		0	6#0	21.37	21.45	23.37	23.45
	132322/1745	0	1#0	21.37	21.48	23.37	23.48
		0	6#0	21.26	21.34	23.26	23.34
	132572/1770	12	1#5	20.71	20.45	22.71	22.45
		15	6#0	21.30	21.38	23.30	23.38



Band85	Channel/ Frequency(MHz)	Index	RB# RBstart	Conducted Power (dBm)		ERP(dBm)	
				QPSK	16QAM	QPSK	16QAM
5MHz	134027/700.5	3	1#0	21.38	21.42	23.23	23.27
		0	6#0	20.47	21.50	22.32	23.35
	134092/707	0	1#0	21.26	21.32	23.11	23.17
		0	6#0	20.22	21.30	22.07	23.15
	134157/713.5	0	1#5	20.97	21.02	22.82	22.87
		0	6#0	20.05	21.47	21.90	23.32
10MHz	134052/703	3	1#0	21.40	21.43	23.25	23.28
		0	4#0	21.53	21.49	23.38	23.34
	134092/707	0	1#0	21.47	21.58	23.32	23.43
		0	4#0	21.45	21.58	23.30	23.43
	134132/711	4	1#5	21.00	21.27	22.85	23.12
		7	4#2	21.03	21.42	22.88	23.27

5.2 Occupied Bandwidth

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

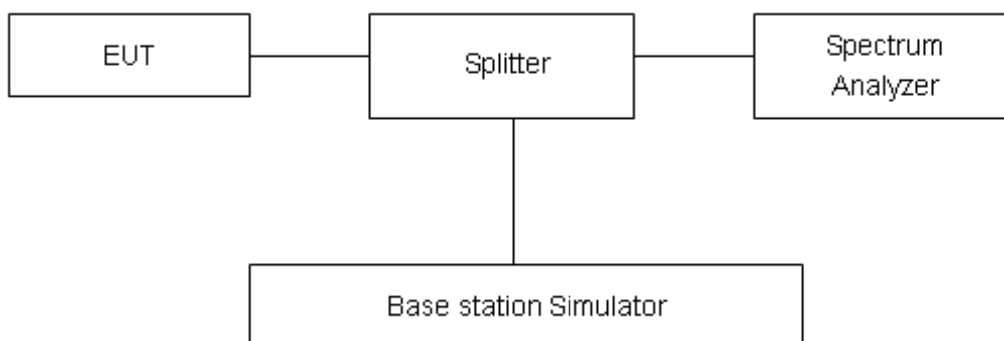
Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to 51kHz, VBW is set to 160kHz for LTE Band 4/12/13/66/85.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U=624\text{Hz}$.

Test Result

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	RB	Index	Bandwidth(MHz)	
						99% Power	-26dBc
Band4	1.4MHz	QPSK	20175/1732.5	6#0	0	1.1058	1.360
		16QAM	20175/1732.5	6#0	0	0.9424	1.163
	3MHz	QPSK	20175/1732.5	6#0	0	1.1136	1.366
		16QAM	20175/1732.5	6#0	0	0.9489	1.178
	5MHz	QPSK	20175/1732.5	6#0	0	1.1134	1.342
		16QAM	20175/1732.5	6#0	0	0.9512	1.192
	10MHz	QPSK	20175/1732.5	6#0	0	1.1214	1.333
		16QAM	20175/1732.5	6#0	0	0.9693	1.257
	15MHz	QPSK	20175/1732.5	6#0	0	1.1320	1.343
		16QAM	20175/1732.5	6#0	0	0.9645	1.177
	20MHz	QPSK	20175/1732.5	6#0	0	1.1201	1.333
		16QAM	20175/1732.5	6#0	0	0.9528	1.182

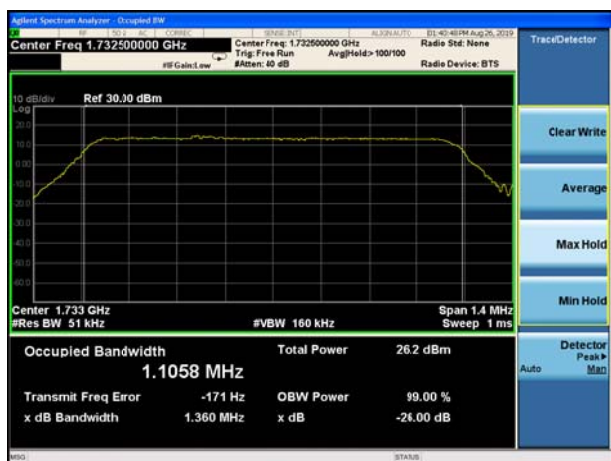
Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	RB	Index	Bandwidth(MHz)	
						99% Power	-26dBc
Band12	1.4MHz	QPSK	23095/707.5	6#0	0	1.1075	1.359
		16QAM	23095/707.5	6#0	0	0.945	1.209
	3MHz	QPSK	23095/707.5	6#0	0	1.1097	1.401
		16QAM	23095/707.5	6#0	0	0.9535	1.199
	5MHz	QPSK	23095/707.5	6#0	0	1.1131	1.377
		16QAM	23095/707.5	6#0	0	0.9546	1.337
	10MHz	QPSK	23095/707.5	6#0	0	1.1221	1.341
		16QAM	23095/707.5	6#0	0	0.9983	1.453

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	RB	Index	Bandwidth(MHz)	
						99% Power	-26dBc
Band13	5MHz	QPSK	23230/782	6#0	0	1.1136	1.341
		16QAM	23230/782	6#0	0	0.9551	1.226
	10MHz	QPSK	23230/782	6#0	0	1.1174	1.332
		16QAM	23230/782	6#0	0	0.9625	1.25

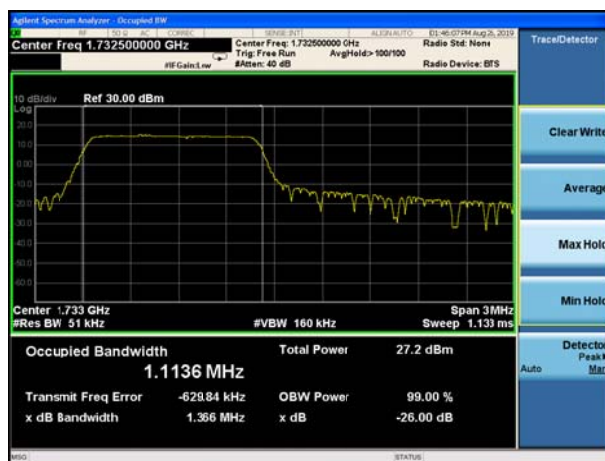
Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	RB	Index	Bandwidth(MHz)	
						99% Power	-26dBc
Band66	1.4MHz	QPSK	132322/1745	6#0	0	1.0999	1.334
		16QAM	132322/1745	6#0	0	0.9458	1.16
	3MHz	QPSK	132322/1745	6#0	0	1.1125	1.369
		16QAM	132322/1745	6#0	0	0.9451	1.223
	5MHz	QPSK	132322/1745	6#0	0	1.1115	1.329
		16QAM	132322/1745	6#0	0	0.9483	1.226
	10MHz	QPSK	132322/1745	6#0	0	1.1198	1.329
		16QAM	132322/1745	6#0	0	0.9711	1.195
	15MHz	QPSK	132322/1745	6#0	0	1.1237	1.357
		16QAM	132322/1745	6#0	0	0.953	1.245
	20MHz	QPSK	132322/1745	6#0	0	1.130	1.363
		16QAM	132322/1745	6#0	0	0.9683	1.55

Mode	Bandwidth	Modulation	Channel/ Frequency(MHz)	RB	Index	Bandwidth(MHz)	
						99% Power	-26dBc
Band85	5MHz	QPSK	134092/707	6#0	0	1.1172	1.349
		16QAM	134092/707	6#0	0	0.9484	1.195
	10MHz	QPSK	134092/707	6#0	0	1.1197	1.376
		16QAM	134092/707	6#0	0	0.9917	1.399

LTE Band 4 QPSK 1.4MHz CH-Middle



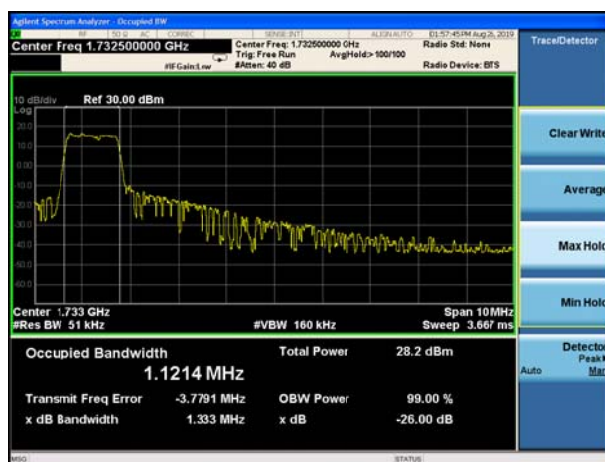
LTE Band 4 QPSK 3MHz CH-Middle



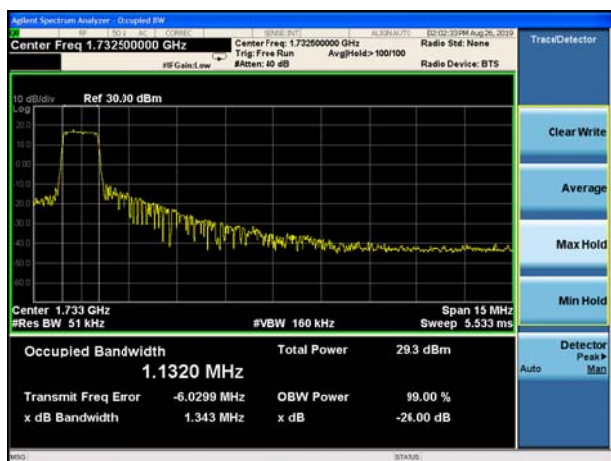
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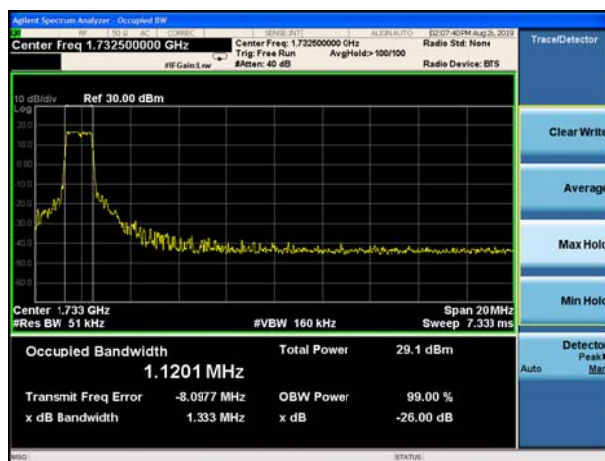
LTE Band 4 QPSK 10MHz CH-Middle



LTE Band 4 QPSK 15MHz CH-Middle

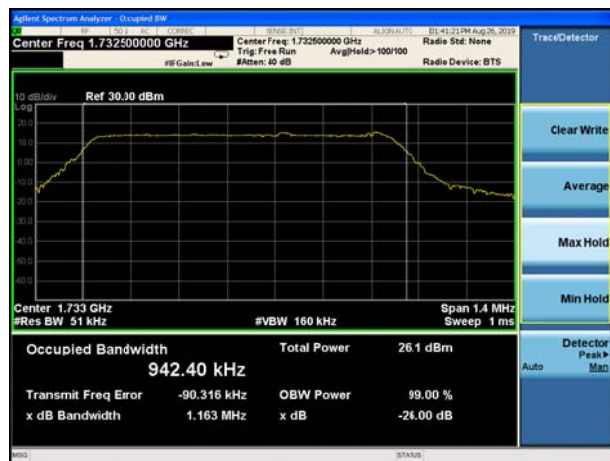


LTE Band 4 QPSK 20MHz CH-Middle

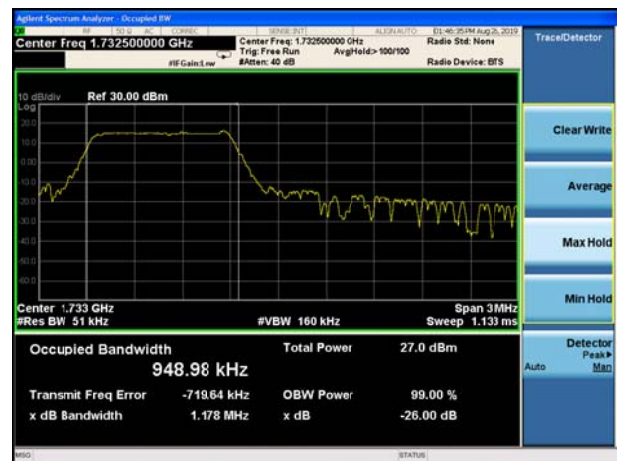




LTE Band 4 16QAM 1.4MHz CH-Middle



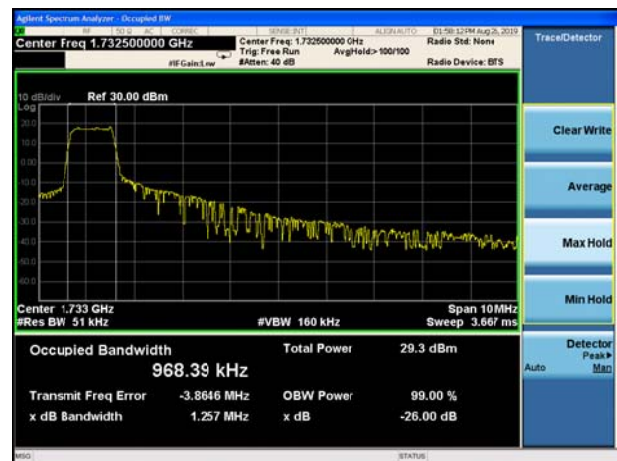
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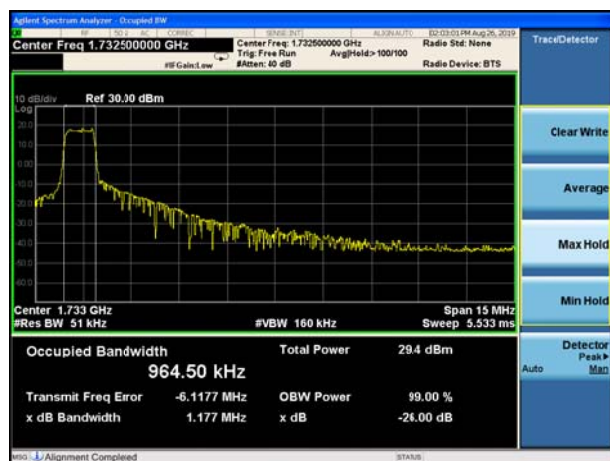
LTE Band 4 16QAM 5MHz CH-Middle



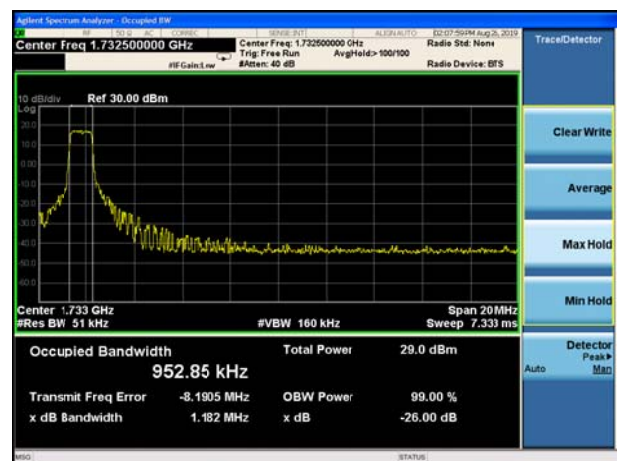
LTE Band 4 16QAM 10MHz CH-Middle



LTE Band 4 16QAM 15MHz CH-Middle

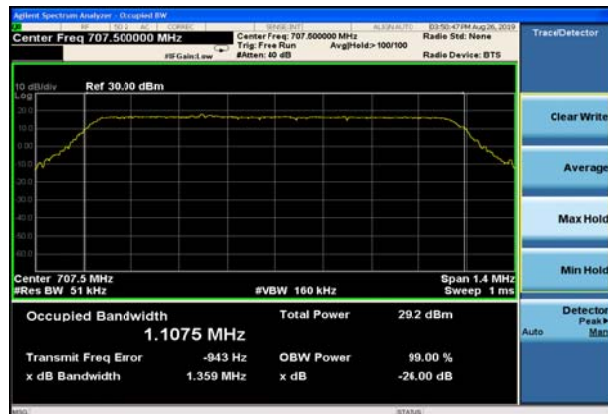


LTE Band 4 16QAM 20MHz CH-Middle

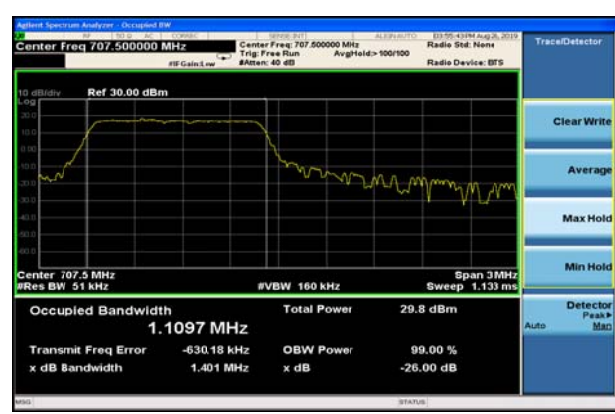




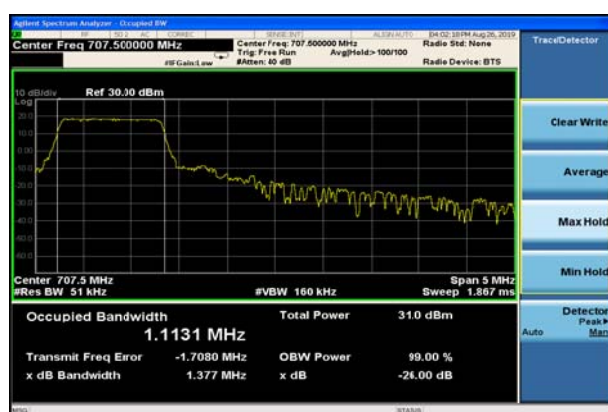
LTE Band 12 QPSK 1.4MHz CH-Middle



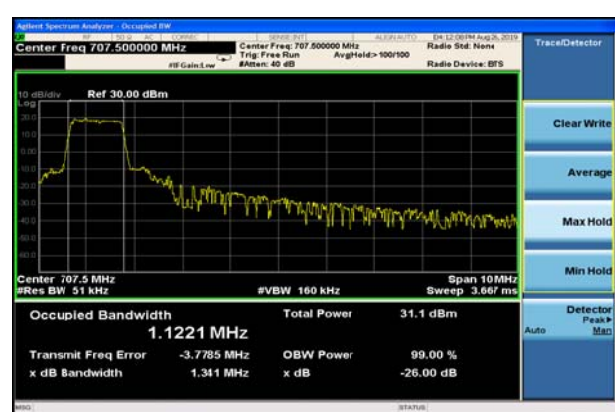
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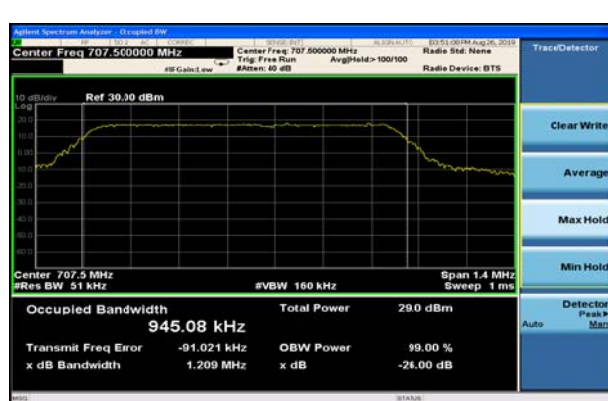
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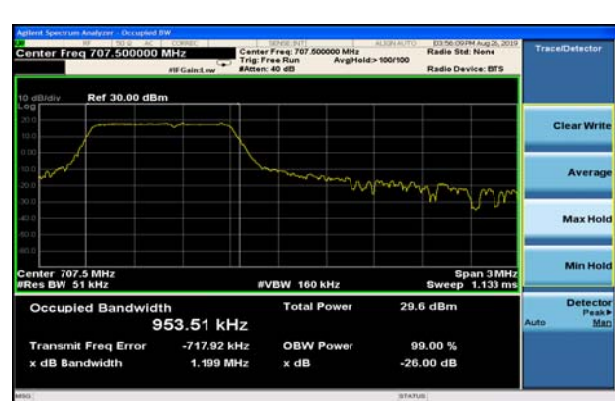
LTE Band 12 QPSK 10MHz CH-Middle



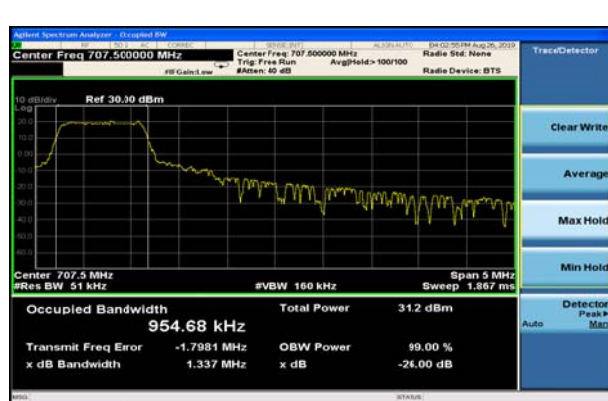
LTE Band 12 16QAM 1.4MHz CH-Middle



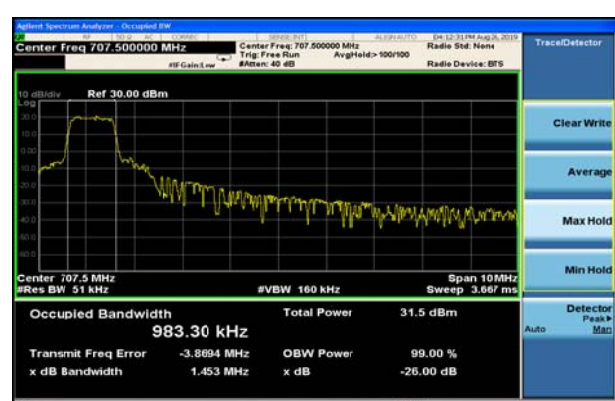
LTE Band 12 16QAM 3MHz CH-Middle



LTE Band 12 16QAM 5MHz CH-Middle



LTE Band 12 16QAM 10MHz CH-Middle





LTE Band 13 QPSK 5MHz CH-Middle



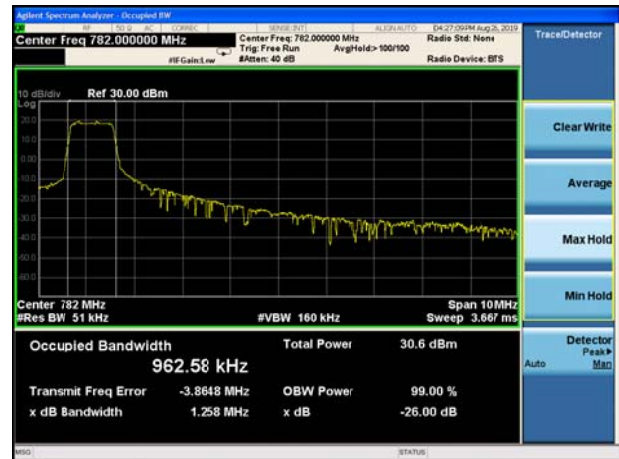
LTE Band 13 QPSK 10MHz CH-Middle



LTE Band 13 16QAM 5MHz CH-Middle

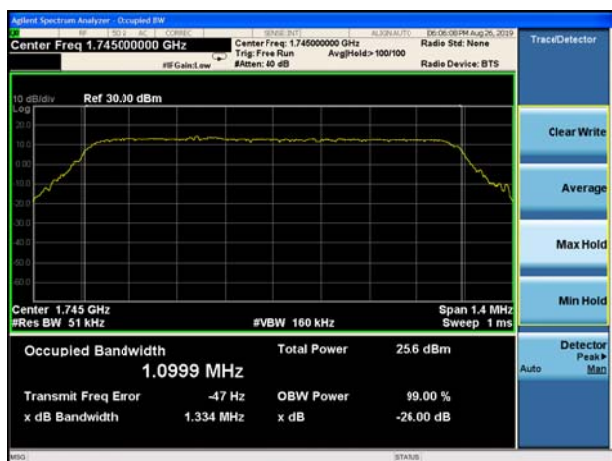


LTE Band 13 16QAM 10MHz CH-Middle

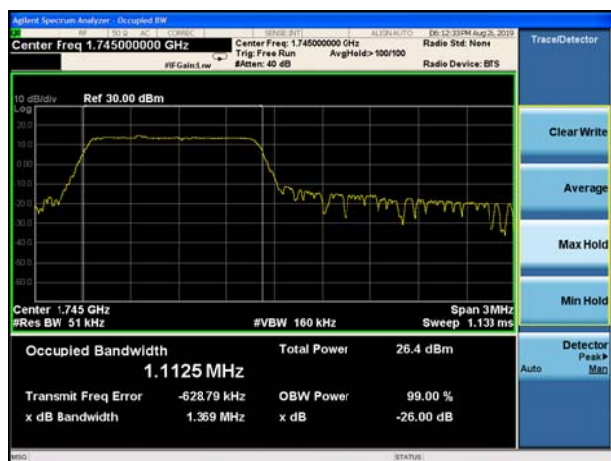




LTE Band 66 QPSK 1.4MHz CH-Middle



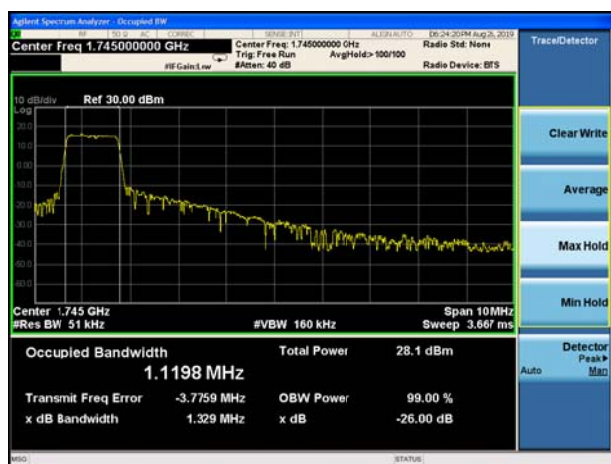
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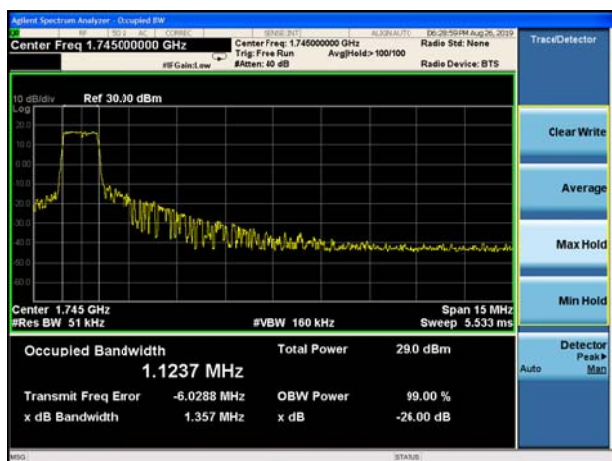
LTE Band 66 QPSK 5MHz CH-Middle



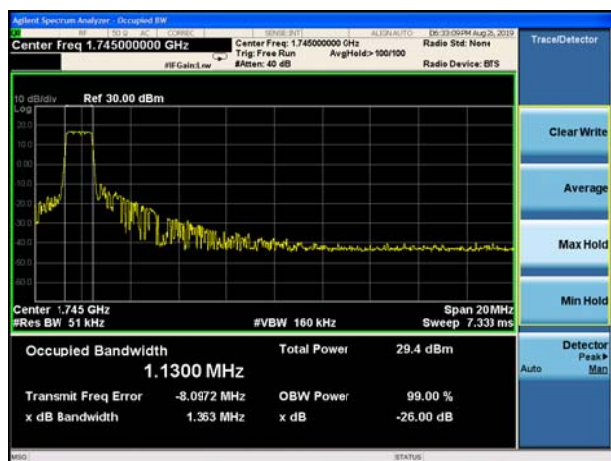
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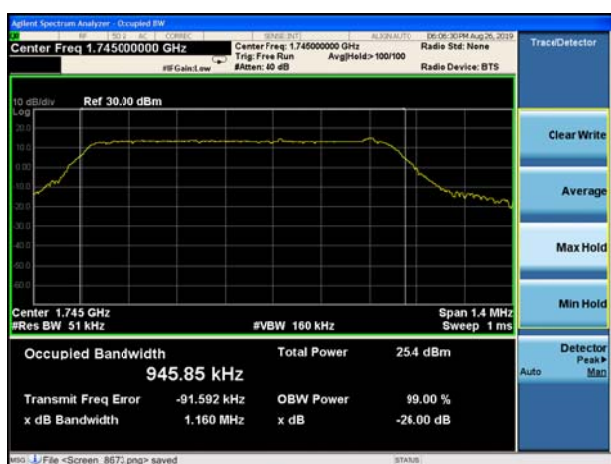
LTE Band 66 QPSK 15MHz CH-Middle



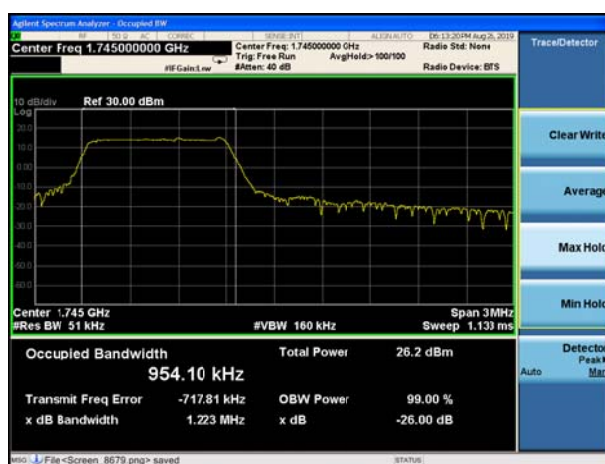
LTE Band 66 QPSK 20MHz CH-Middle



LTE Band 66 16QAM 1.4MHz CH-Middle



LTE Band 66 16QAM 3MHz CH-Middle



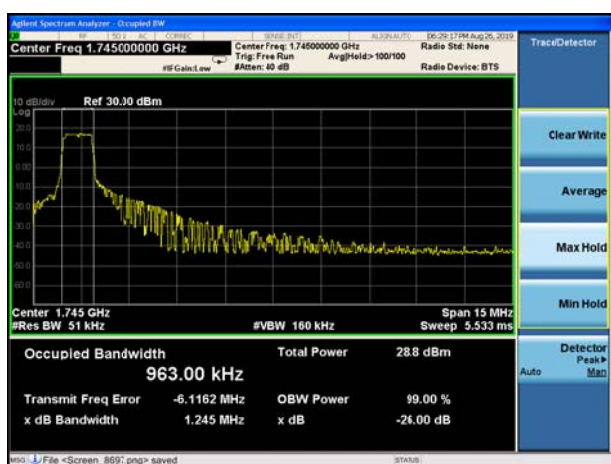
LTE Band 66 16QAM 5MHz CH-Middle



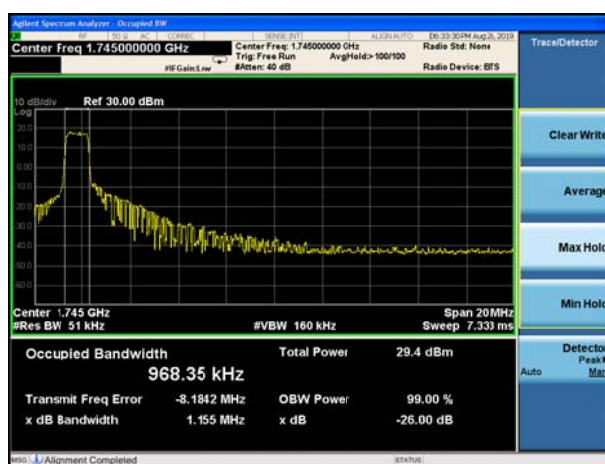
LTE Band 66 16QAM 10MHz CH-Middle



LTE Band 66 16QAM 15MHz CH-Middle

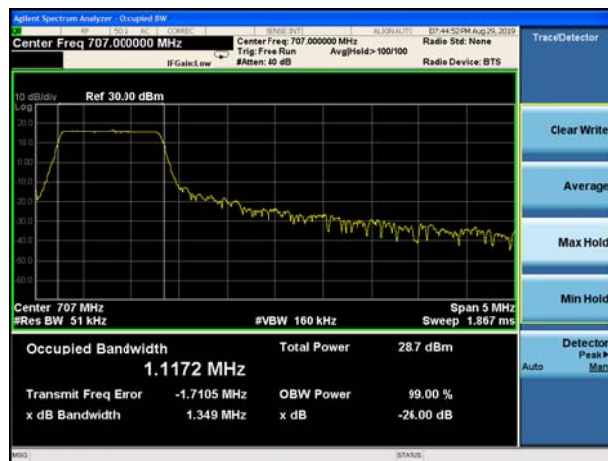


LTE Band 66 16QAM 20MHz CH-Middle

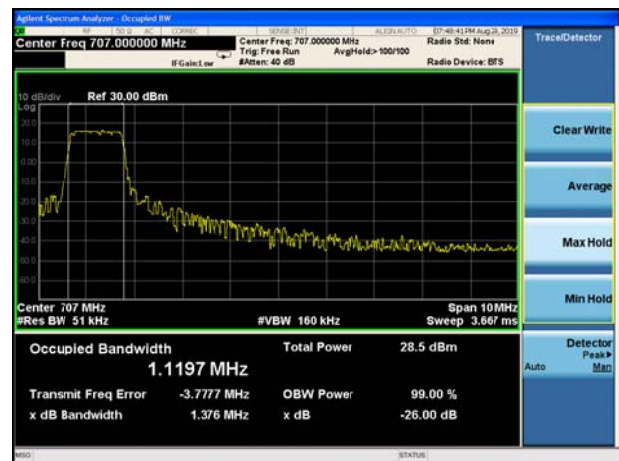




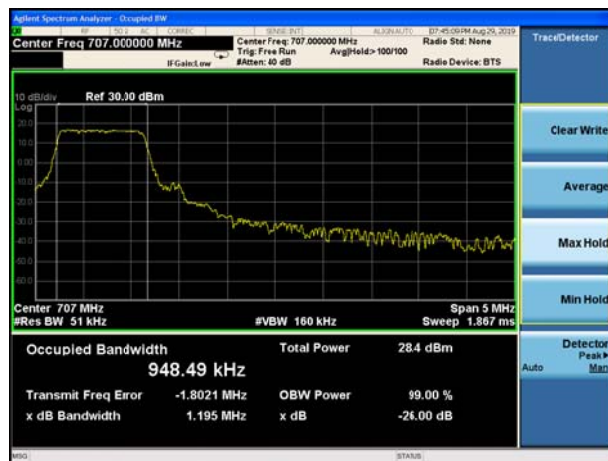
LTE Band 85 QPSK 5MHz CH-Middle



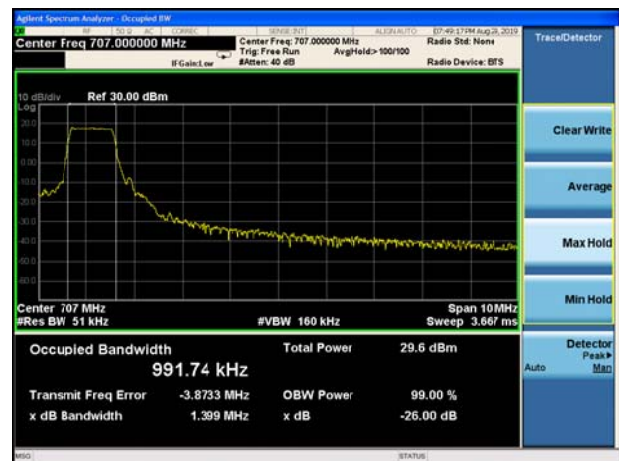
LTE Band 85 QPSK 10MHz CH-Middle



LTE Band 85 16QAM 5MHz CH-Middle



LTE Band 85 16QAM 10MHz CH-Middle



5.3 Band Edge Compliance

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

RBW is set to 51kHz, VBW is set to 160kHz for LTE Band 4/12/13/66/85.

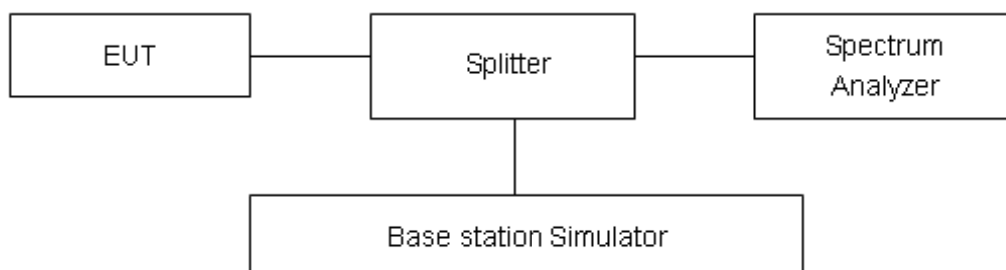
on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

Test Setup



Limits

Rule Part 27.53(i) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz.

Rule Part 27.53(h) specifies that “ for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB”

Rule Part 27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any



emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

Rule Part 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

Measurement Uncertainty

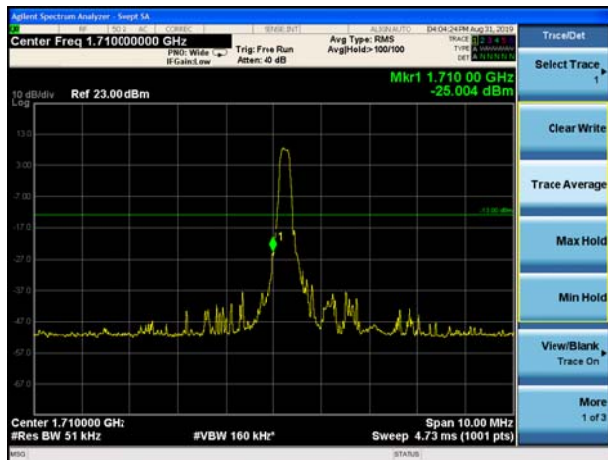
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684$ dB.



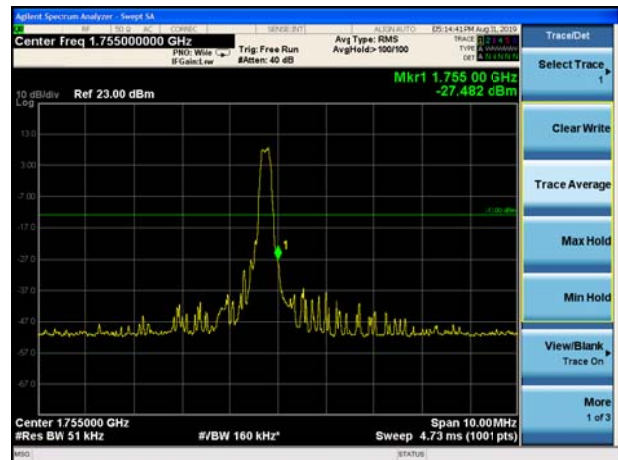
Test Result

All the test traces in the plots shows the test results clearly.

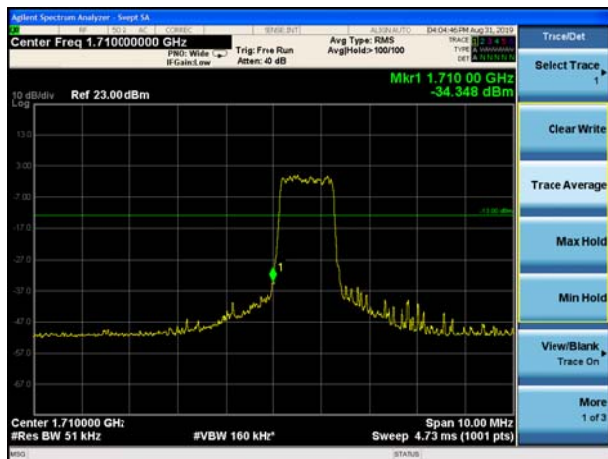
LTE Band 4 QPSK 1.4MHz CH-Low, 1 RB



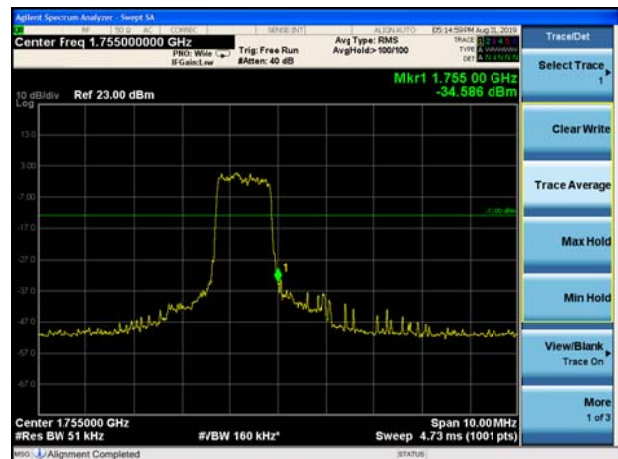
LTE Band 4 QPSK 1.4MHz CH-High, 1 RB



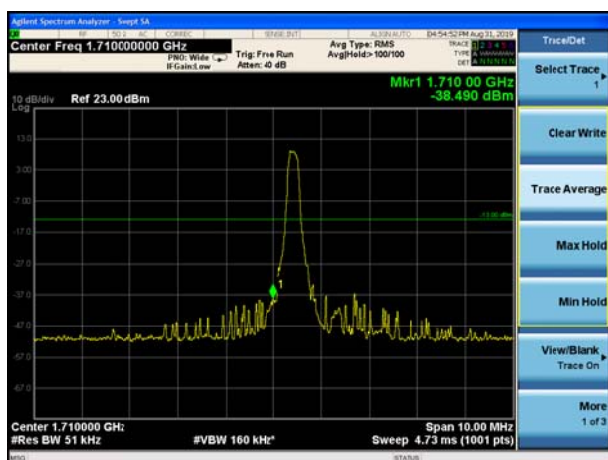
LTE Band 4 QPSK 1.4MHz CH-Low, 100%RB



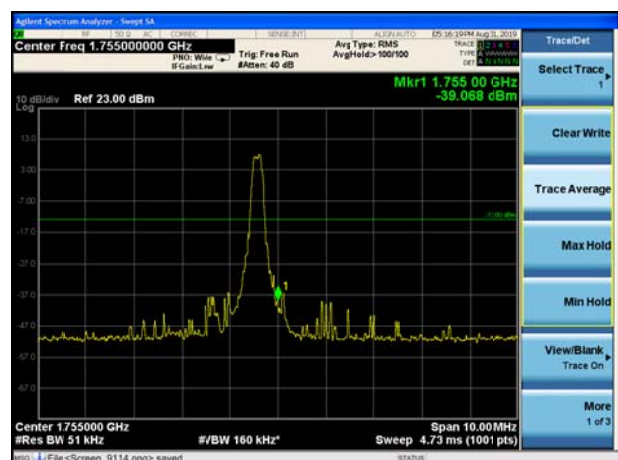
LTE Band 4 QPSK 1.4MHz CH-High, 100%RB



LTE Band 4 QPSK 3MHz CH-Low, 1 RB

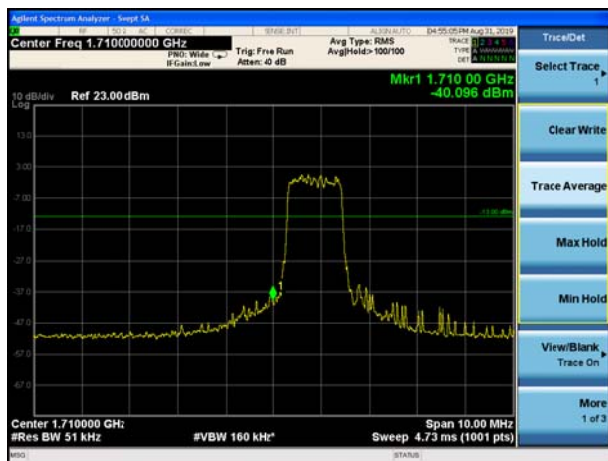


LTE Band 4 QPSK 3MHz CH-High, 1 RB

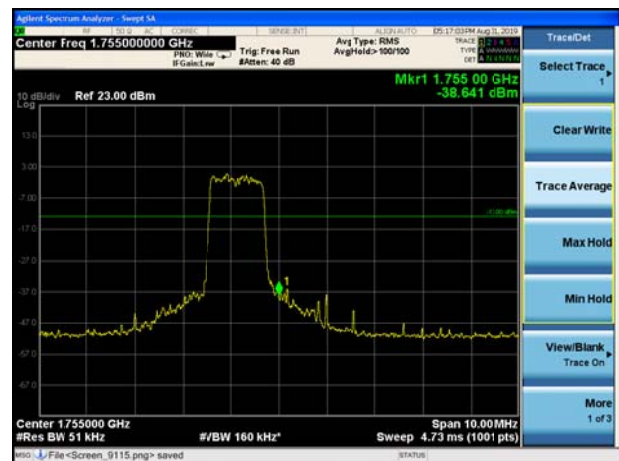




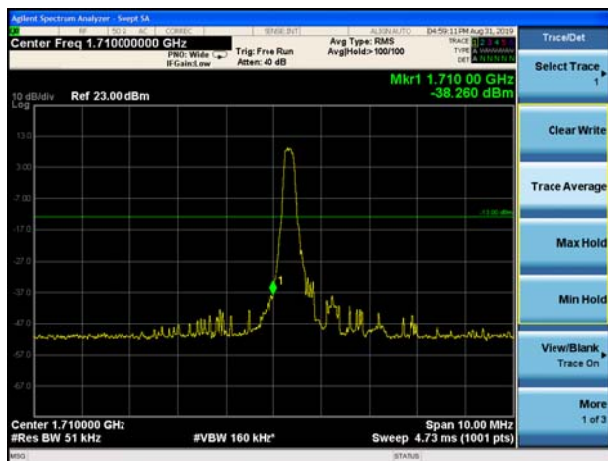
LTE Band 4 QPSK 3MHz CH-Low, 100%RB



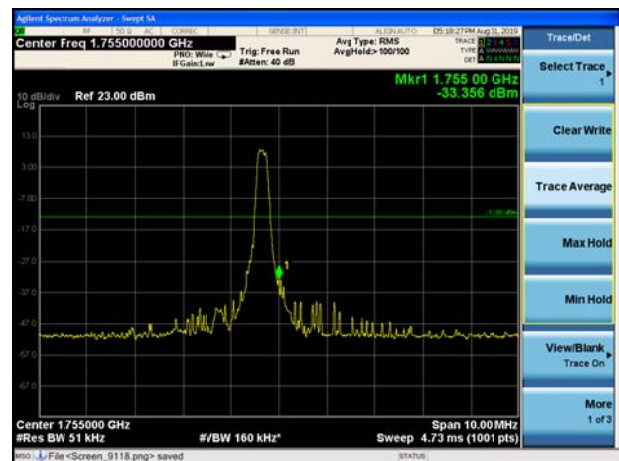
LTE Band 4 QPSK 3MHz CH-High, 100%RB



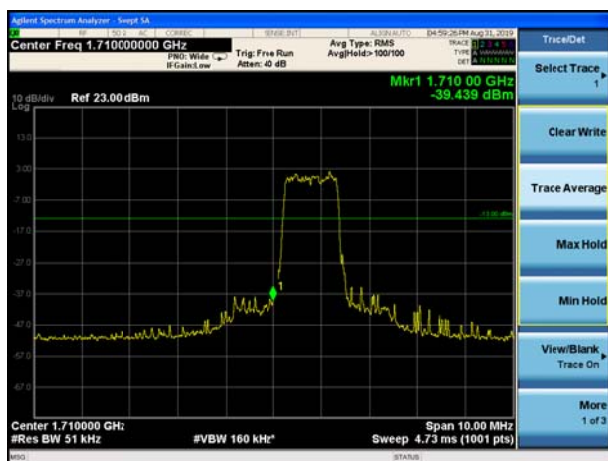
LTE Band 4 QPSK 5MHz CH-Low, 1 RB



LTE Band 4 QPSK 5MHz CH-High, 1 RB



LTE Band 4 QPSK 5MHz CH-Low, 100%RB

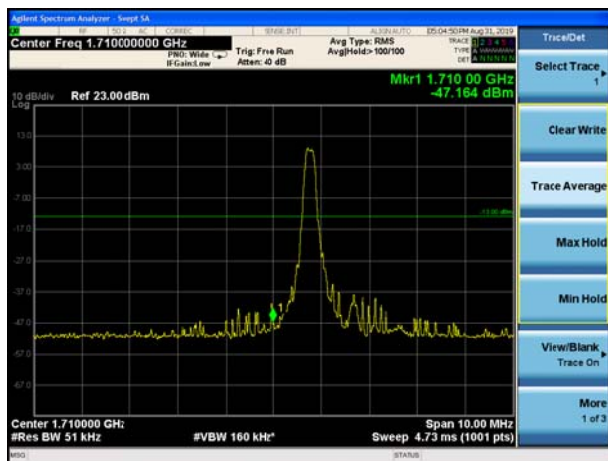


LTE Band 4 QPSK 5MHz CH-High, 100%RB

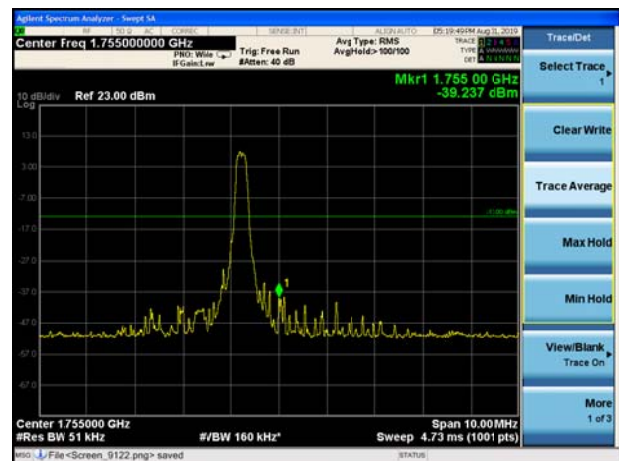




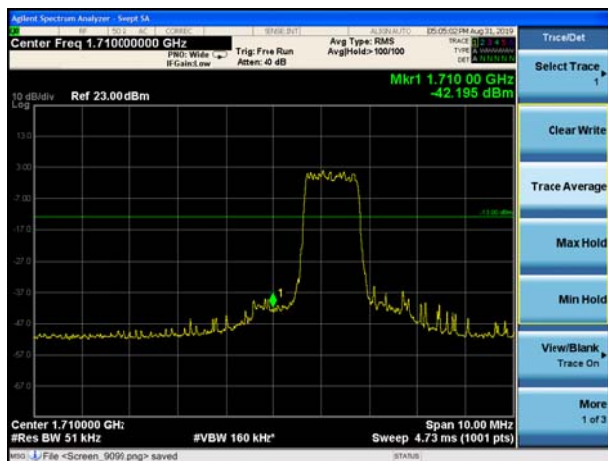
LTE Band 4 QPSK 10MHz CH-Low, 1 RB



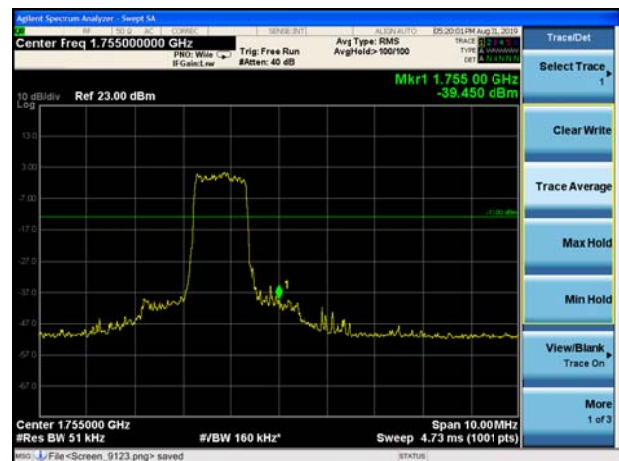
LTE Band 4 QPSK 10MHz CH-High, 1 RB



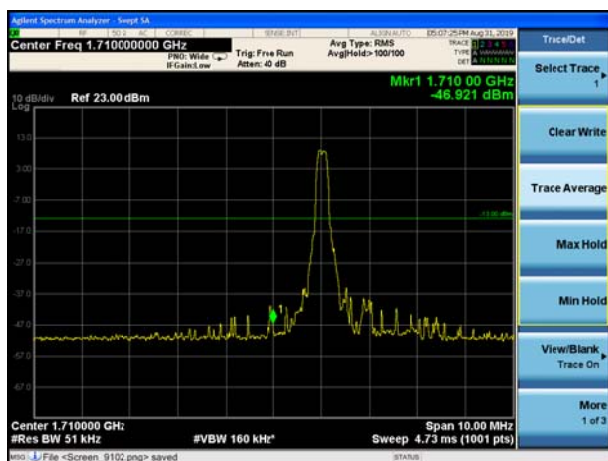
LTE Band 4 QPSK 10MHz CH-Low, 100%RB



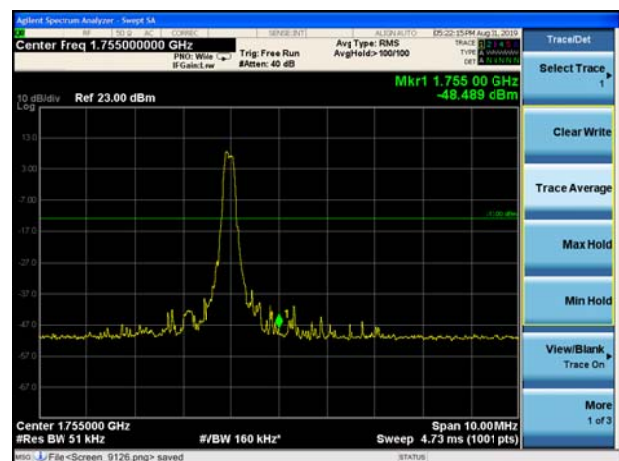
LTE Band 4 QPSK 10MHz CH-High, 100%RB



LTE Band 4 QPSK 15MHz CH-Low, 1 RB



LTE Band 4 QPSK 15MHz CH-High, 1 RB





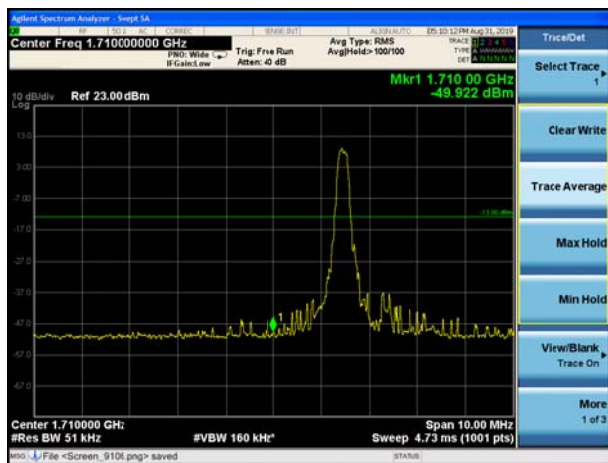
LTE Band 4 QPSK 15MHz CH-Low, 100%RB



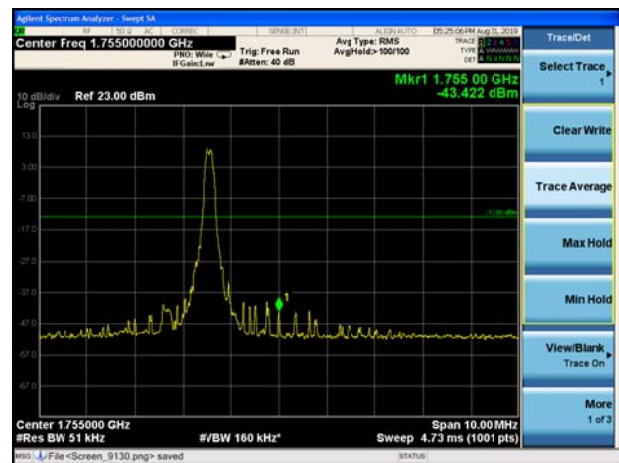
LTE Band 4 QPSK 15MHz CH-High, 100%RB



LTE Band 4 QPSK 20MHz CH-Low, 1 RB



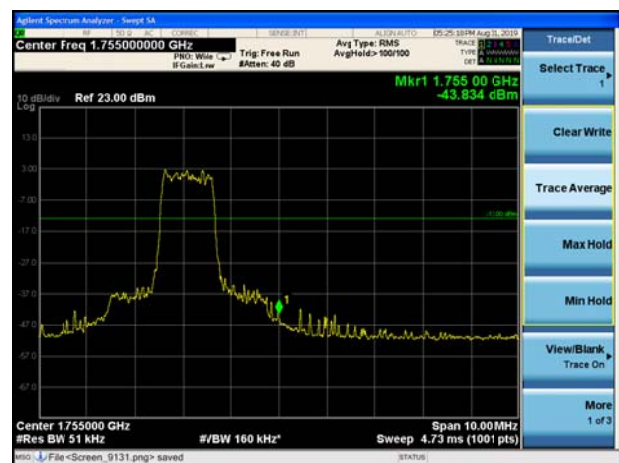
LTE Band 4 QPSK 20MHz CH-High, 1 RB



LTE Band 4 QPSK 20MHz CH-Low, 100%RB

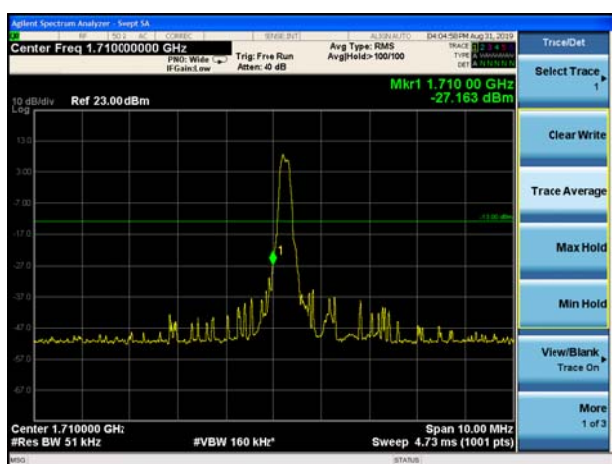


LTE Band 4 QPSK 20MHz CH-High, 100%RB





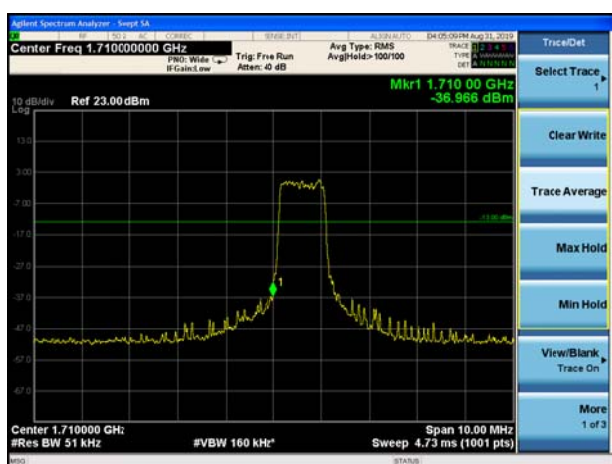
LTE Band 4 16QAM 1.4MHz CH-Low, 1 RB



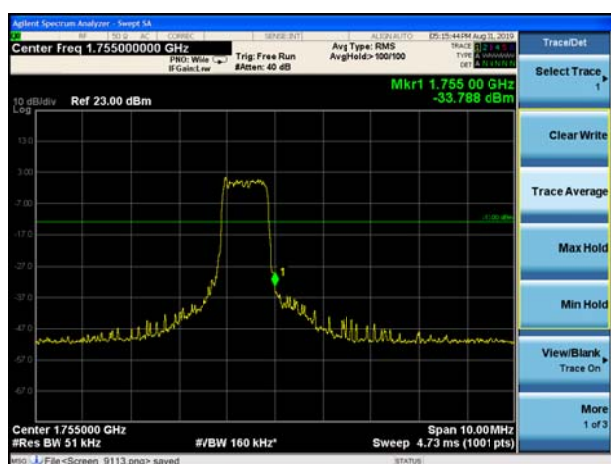
LTE Band 4 16QAM 1.4MHz CH-High, 1 RB



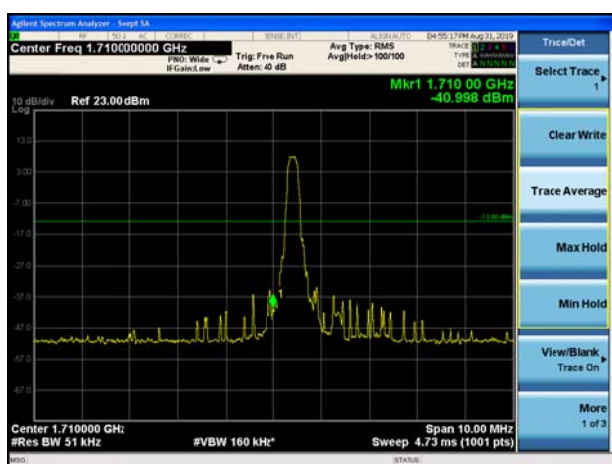
LTE Band 4 16QAM 1.4MHz CH-Low, 100%RB



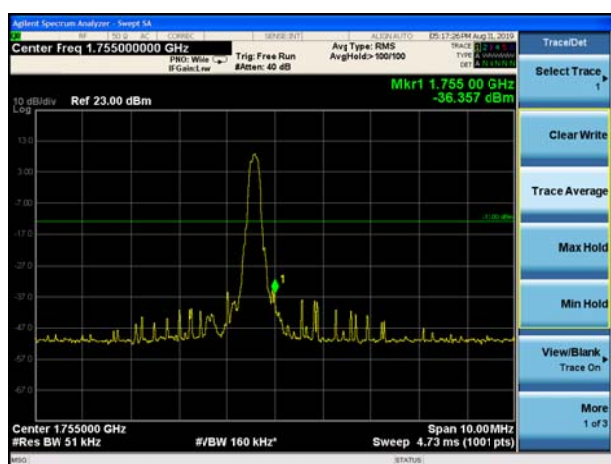
LTE Band 4 16QAM 1.4MHz CH-High, 100%RB



LTE Band 4 16QAM 3MHz CH-Low, 1 RB

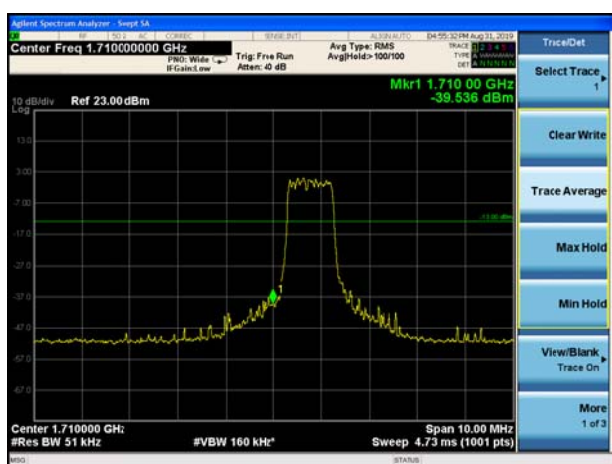


LTE Band 4 16QAM 3MHz CH-High, 1 RB

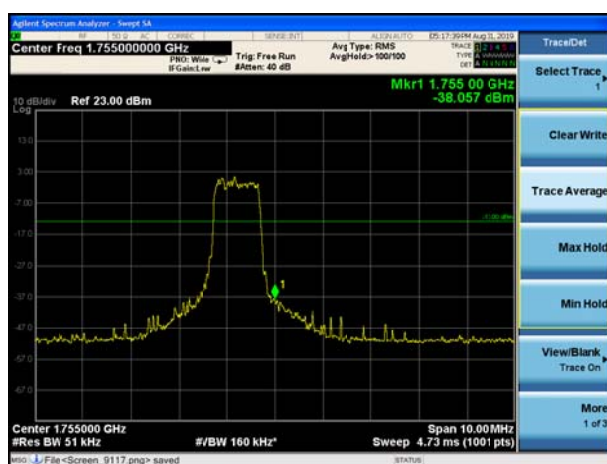




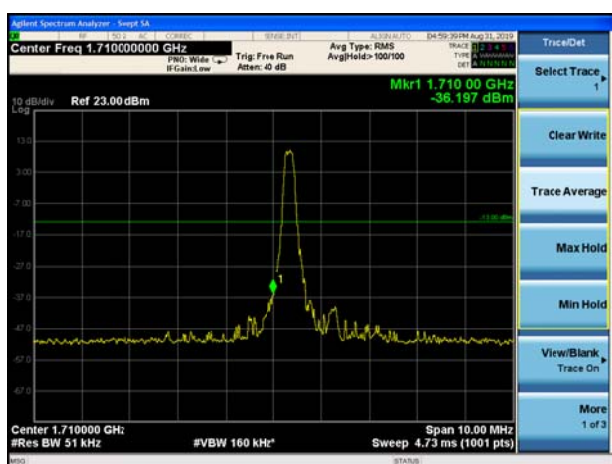
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



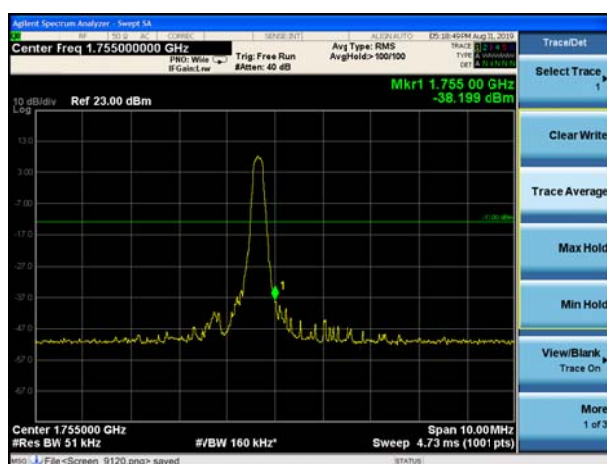
LTE Band 4 16QAM 3MHz CH-High, 100%RB



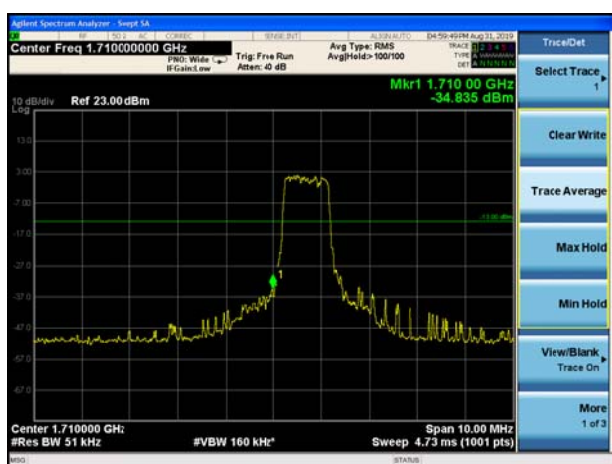
LTE Band 4 16QAM 5MHz CH-Low, 1 RB



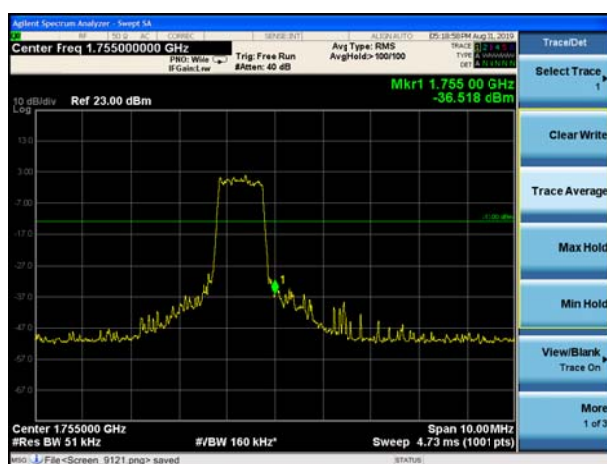
LTE Band 4 16QAM 5MHz CH-High, 1 RB



LTE Band 4 16QAM 5MHz CH-Low, 100%RB

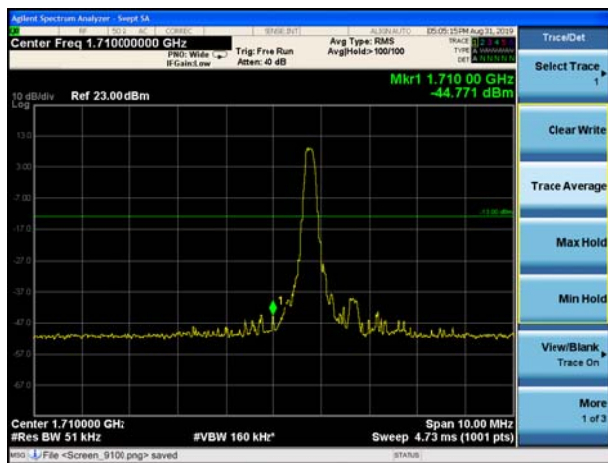


LTE Band 4 16QAM 5MHz CH-High, 100%RB

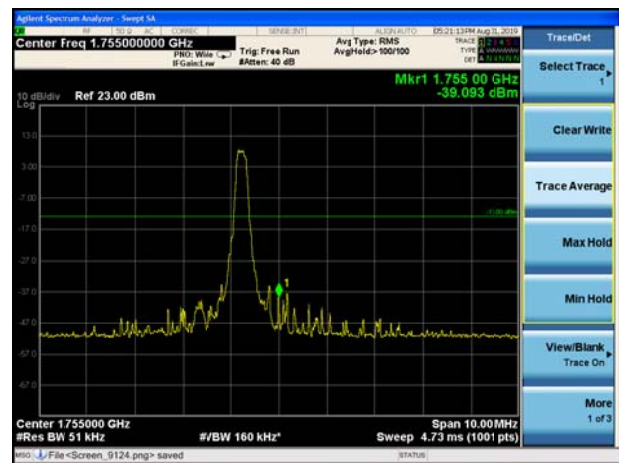




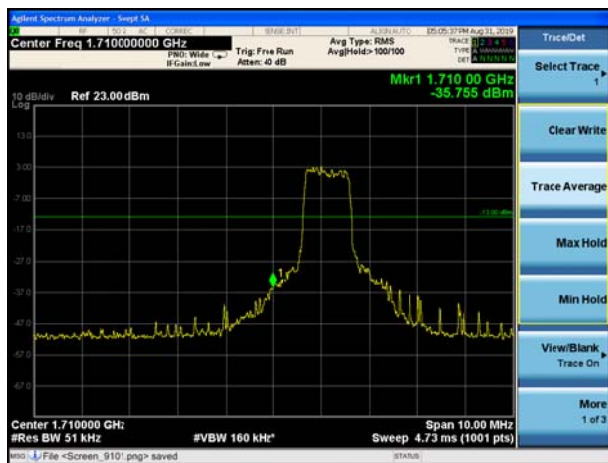
LTE Band 4 16QAM 10MHz CH-Low, 1 RB



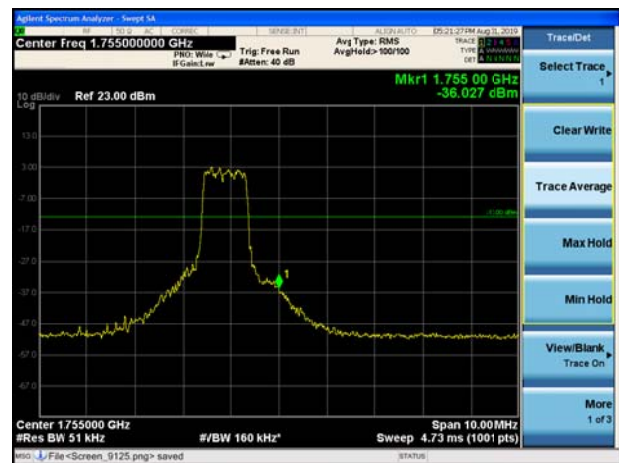
LTE Band 4 16QAM 10MHz CH-High, 1 RB



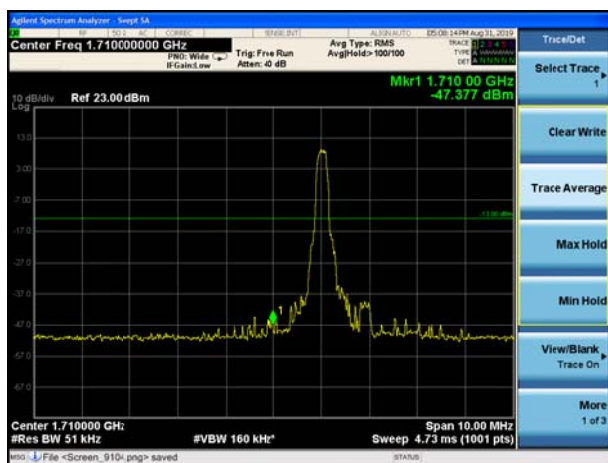
LTE Band 4 16QAM 10MHz CH-Low, 100%RB



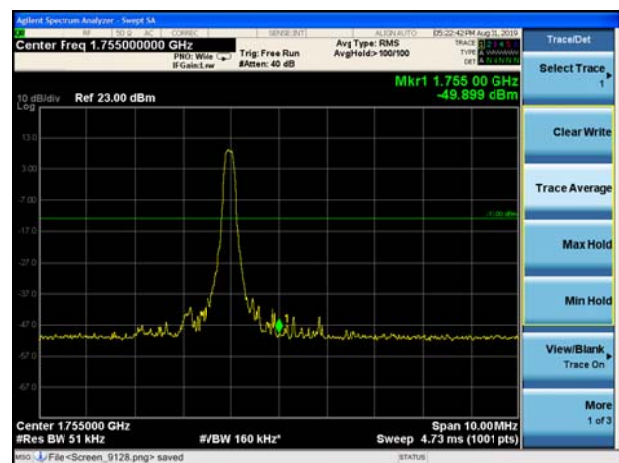
LTE Band 4 16QAM 10MHz CH-High, 100%RB



LTE Band 4 16QAM 15MHz CH-Low, 1 RB

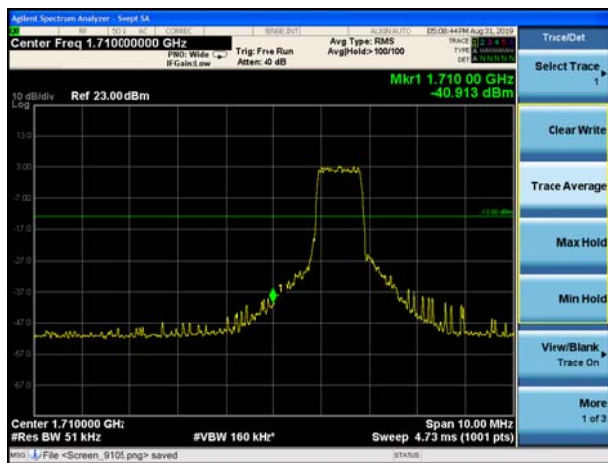


LTE Band 4 16QAM 15MHz CH-High, 1 RB

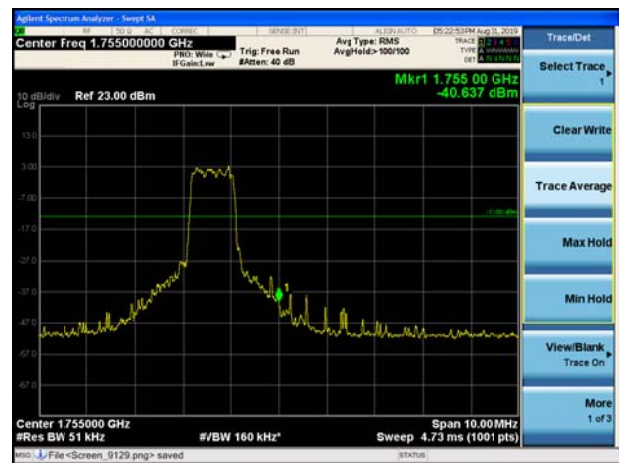




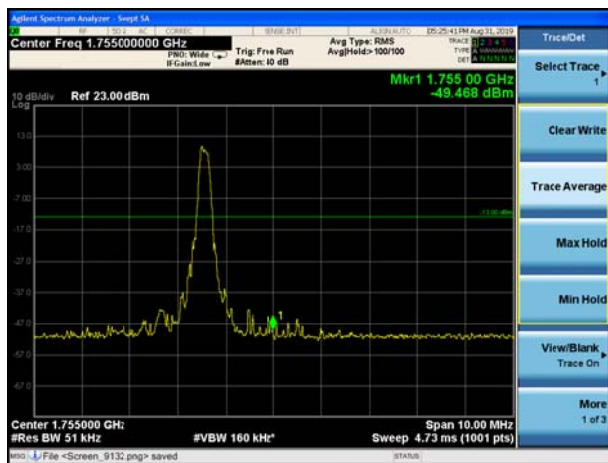
LTE Band 4 16QAM 15MHz CH-Low, 100%RB



LTE Band 4 16QAM 15MHz CH-High, 100%RB



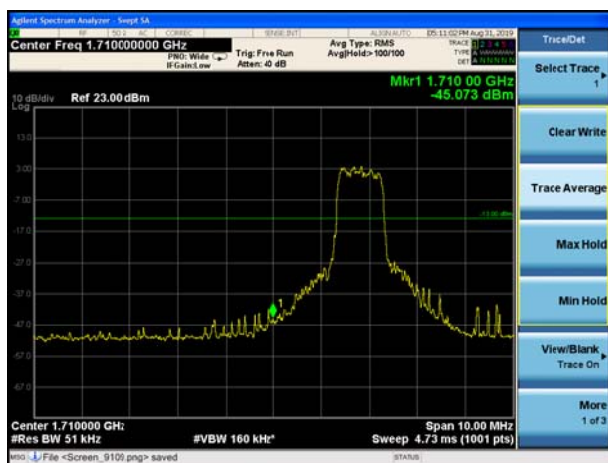
LTE Band 4 16QAM 20MHz CH-Low, 1 RB



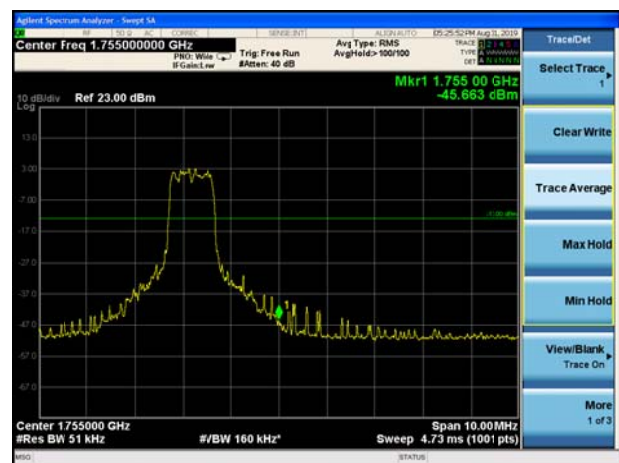
LTE Band 4 16QAM 20MHz CH-High, 1 RB



LTE Band 4 16QAM 20MHz CH-Low, 100%RB



LTE Band 4 16QAM 20MHz CH-High, 100%RB

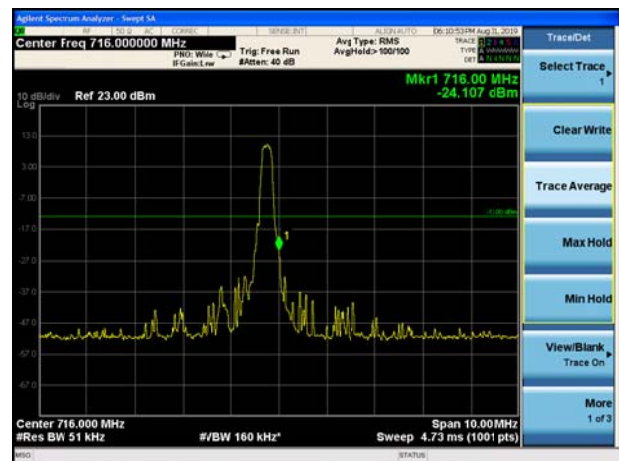




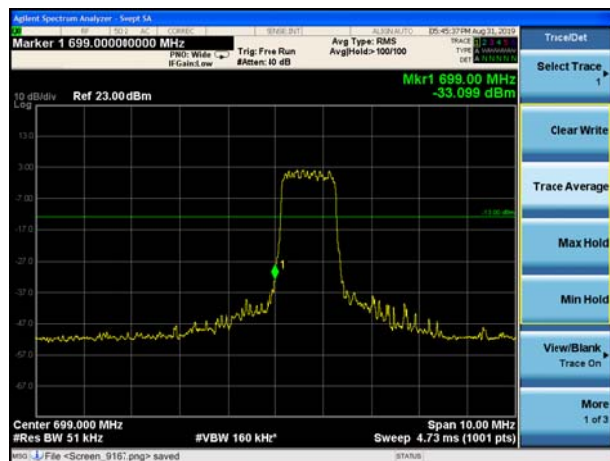
LTE Band 12 QPSK 1.4MHz CH-Low, 1 RB



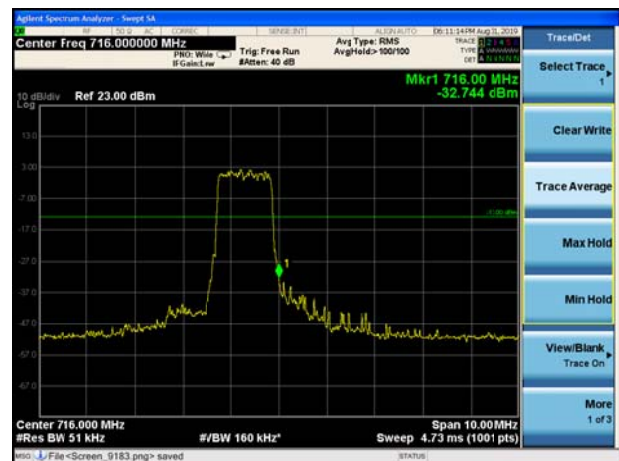
LTE Band 12 QPSK 1.4MHz CH-High, 1 RB



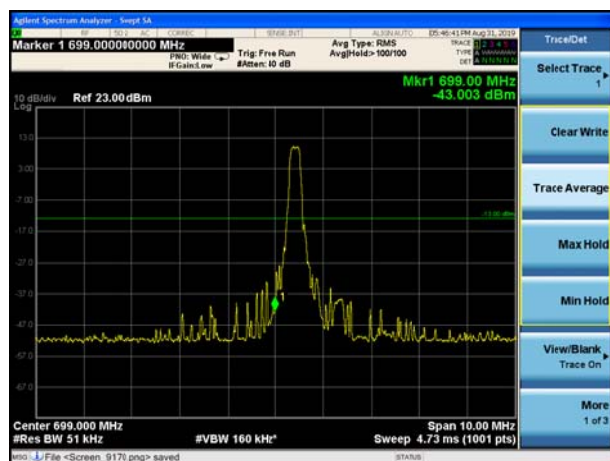
LTE Band 12 QPSK 1.4MHz CH-Low, 100%RB



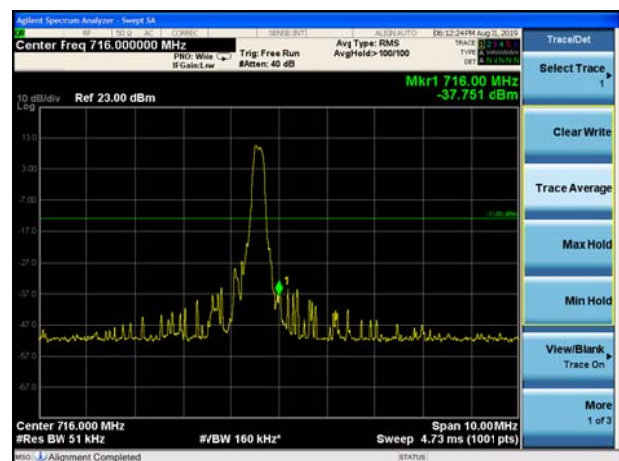
LTE Band 12 QPSK 1.4MHz CH-High, 100%RB



LTE Band 12 QPSK 3MHz CH-Low, 1 RB

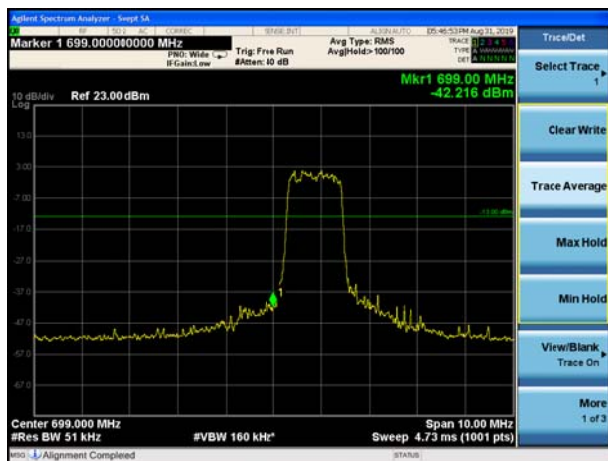


LTE Band 12 QPSK 3MHz CH-High, 1 RB

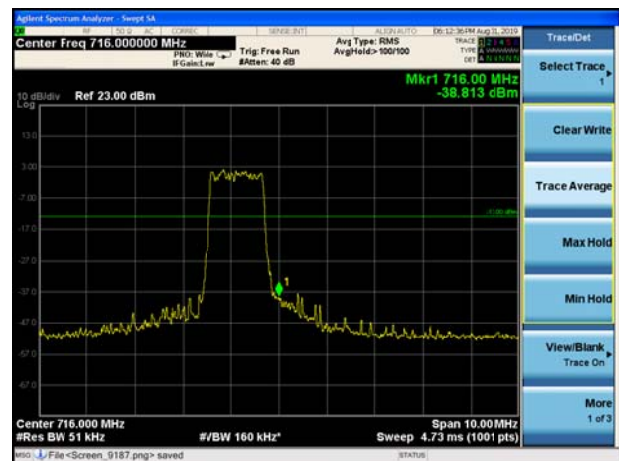




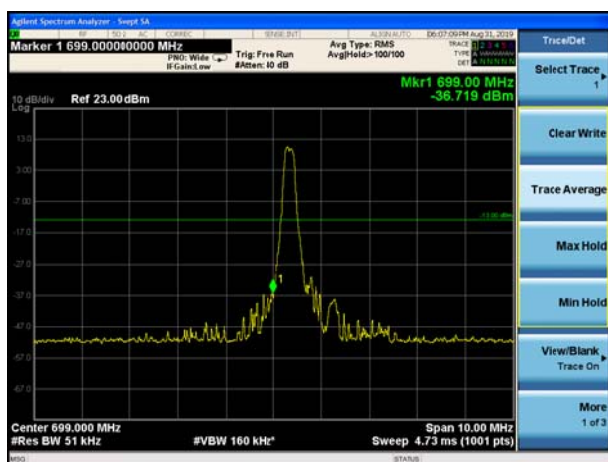
LTE Band 12 QPSK 3MHz CH-Low, 100%RB



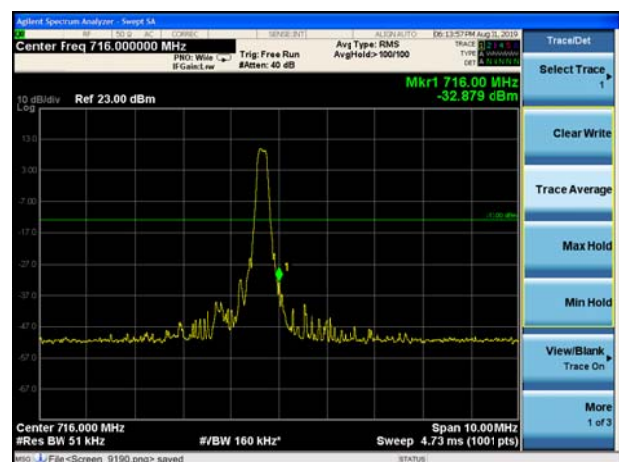
LTE Band 12 QPSK 3MHz CH-High, 100%RB



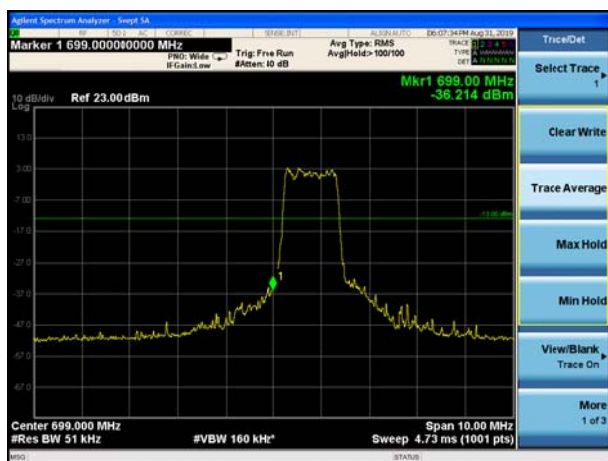
LTE Band 12 QPSK 5MHz CH-Low, 1 RB



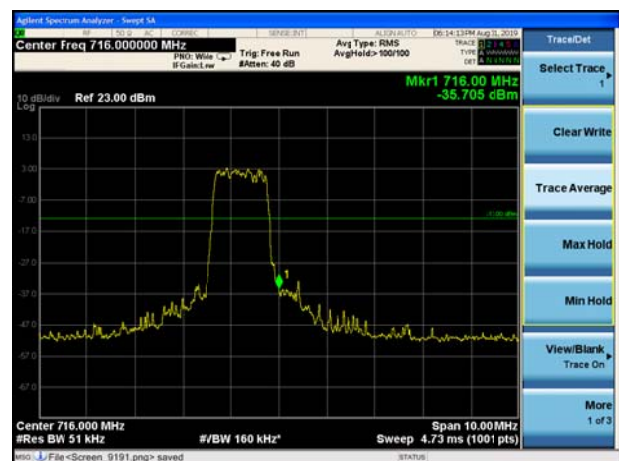
LTE Band 12 QPSK 5MHz CH-High, 1 RB



LTE Band 12 QPSK 5MHz CH-Low, 100%RB



LTE Band 12 QPSK 5MHz CH-High, 100%RB

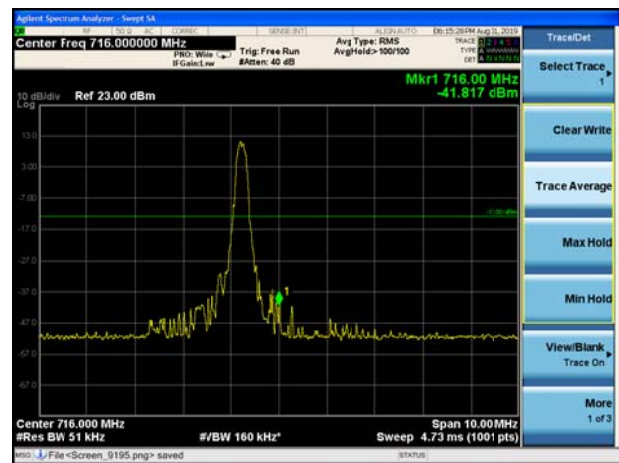




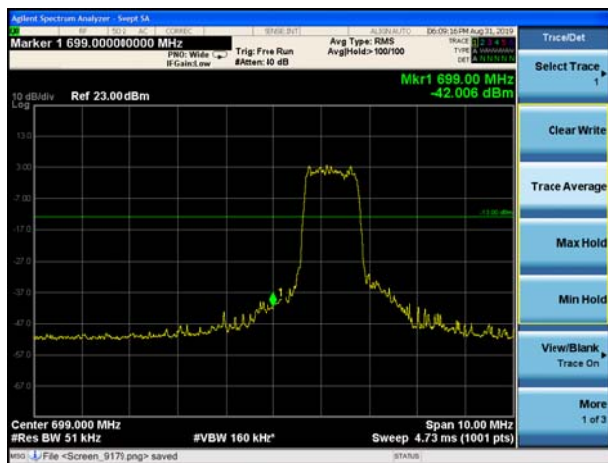
LTE Band 12 QPSK 10MHz CH-Low, 1 RB



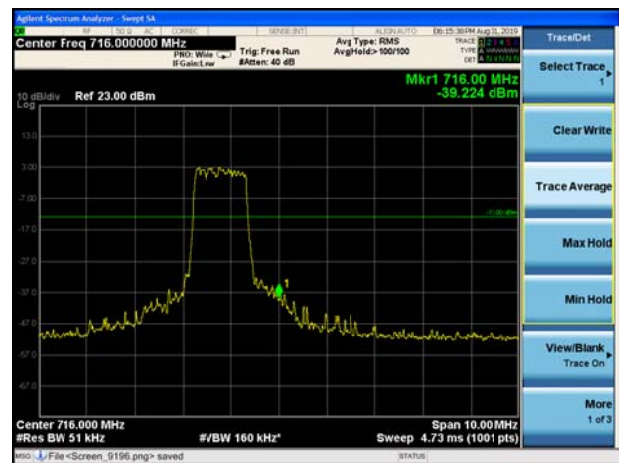
LTE Band 12 QPSK 10MHz CH-High, 1 RB



LTE Band 12 QPSK 10MHz CH-Low, 100%RB



LTE Band 12 QPSK 10MHz CH-High, 100%RB



LTE Band 12 16QAM 1.4MHz CH-Low, 1 RB

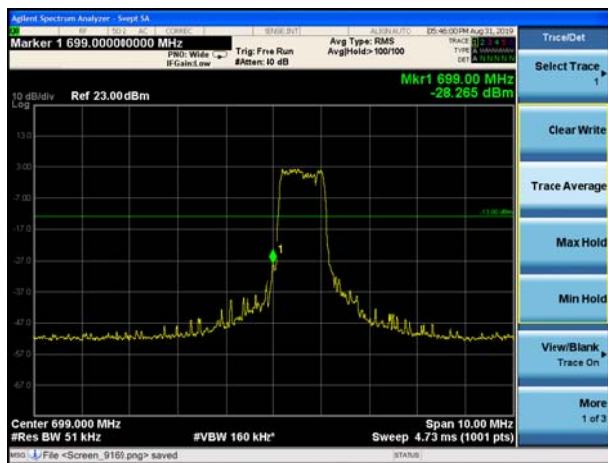


LTE Band 12 16QAM 1.4MHz CH-High, 1 RB

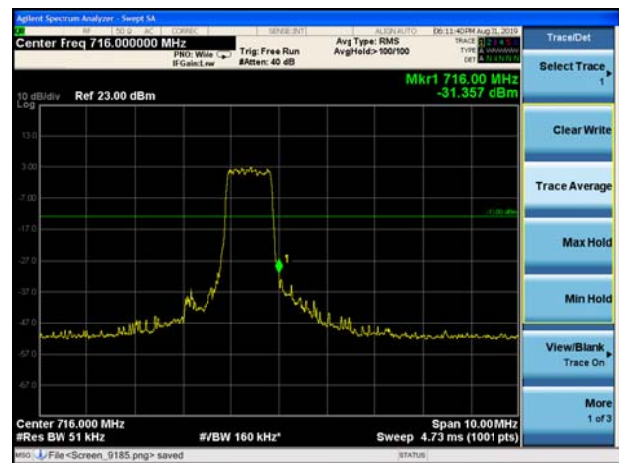




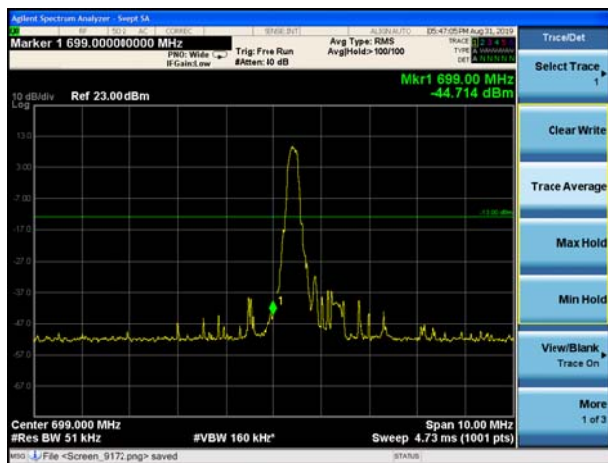
LTE Band 12 16QAM 1.4MHz CH-Low, 100%RB



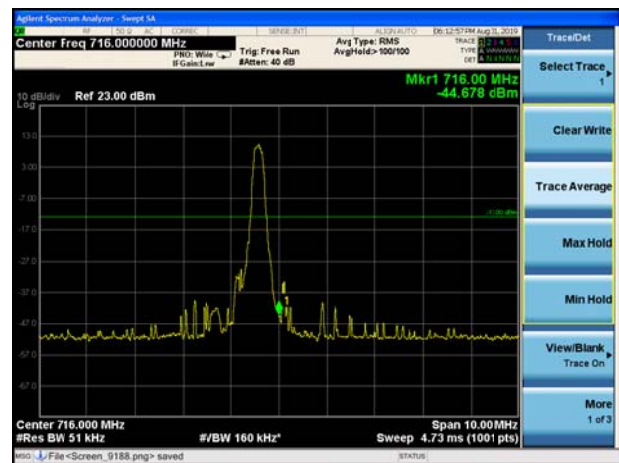
LTE Band 12 16QAM 1.4MHz CH-High, 100%RB



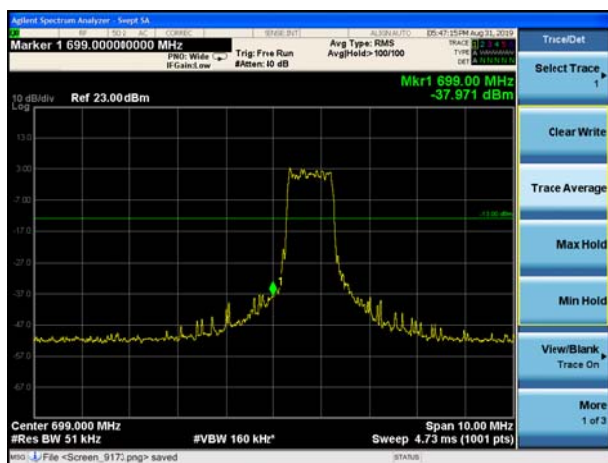
LTE Band 12 16QAM 3MHz CH-Low, 1 RB



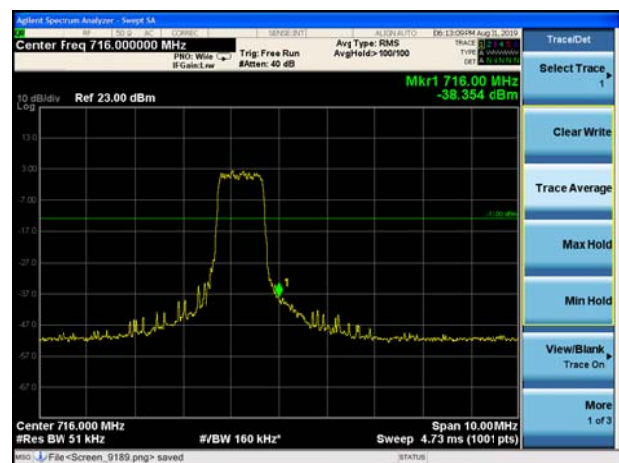
LTE Band 12 16QAM 3MHz CH-High, 1 RB



LTE Band 12 16QAM 3MHz CH-Low, 100%RB

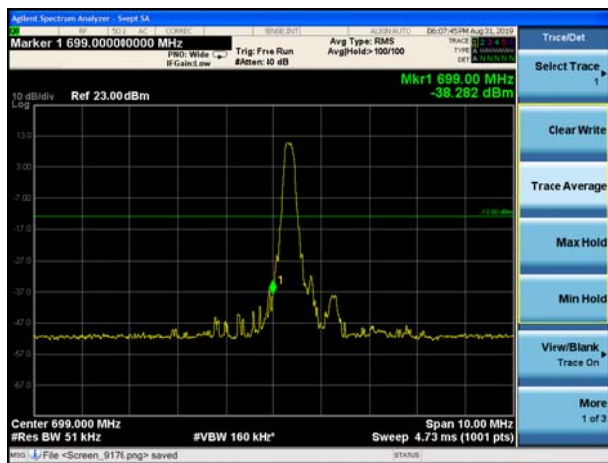


LTE Band 12 16QAM 3MHz CH-High, 100%RB

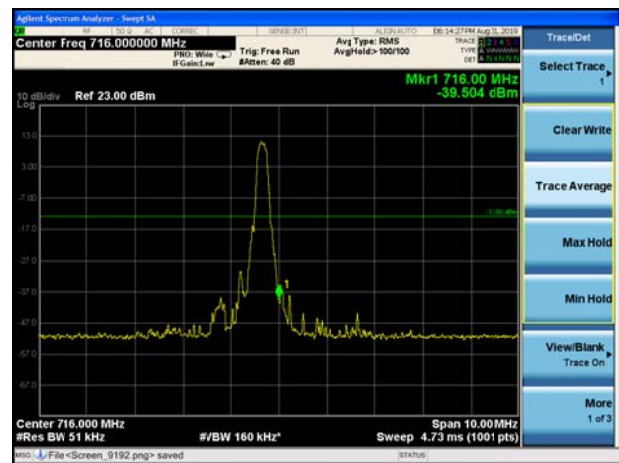




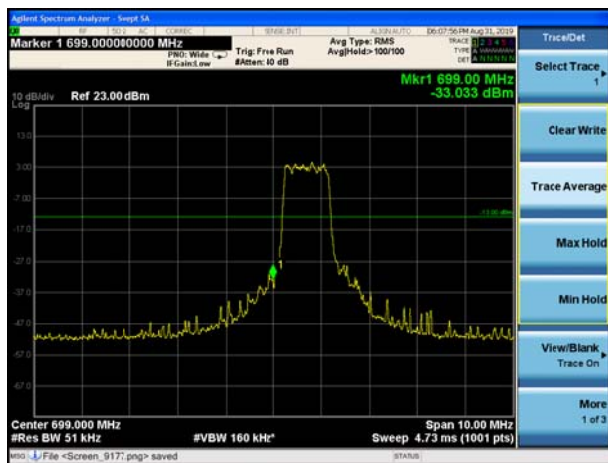
LTE Band 12 16QAM 5MHz CH-Low, 1 RB



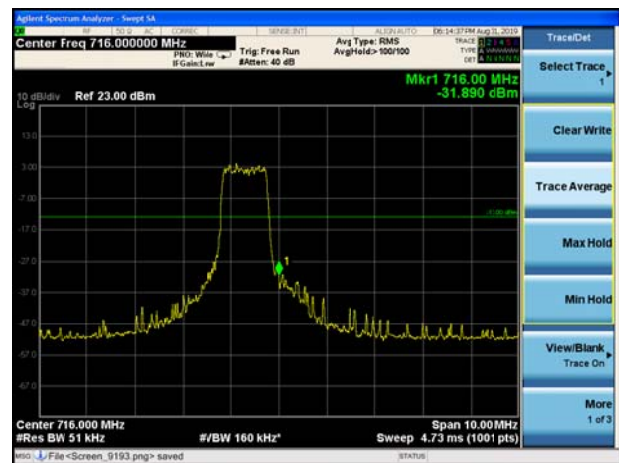
LTE Band 12 16QAM 5MHz CH-High, 1 RB



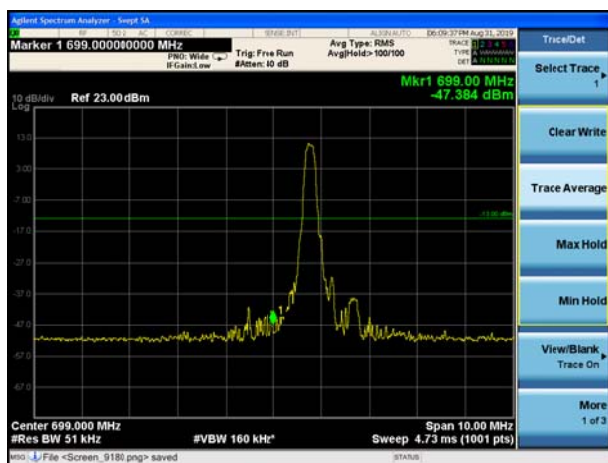
LTE Band 12 16QAM 5MHz CH-Low, 100%RB



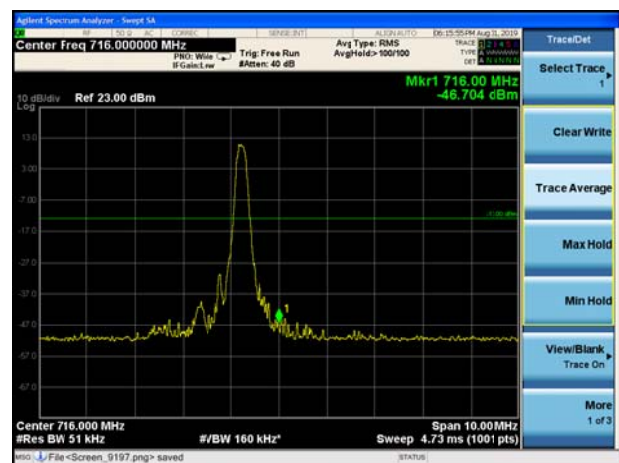
LTE Band 12 16QAM 5MHz CH-High, 100%RB



LTE Band 12 16QAM 10MHz CH-Low, 1 RB

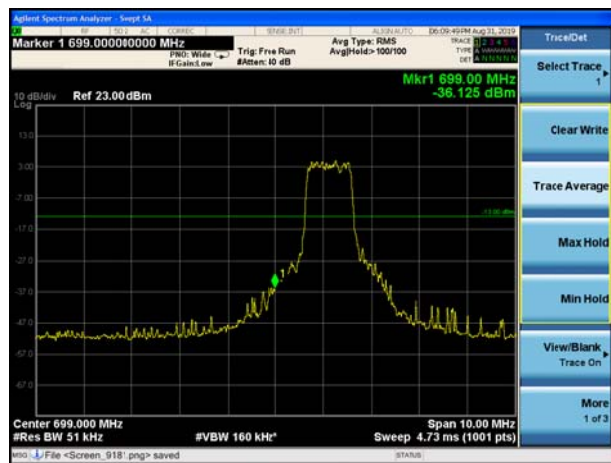


LTE Band 12 16QAM 10MHz CH-High, 1 RB

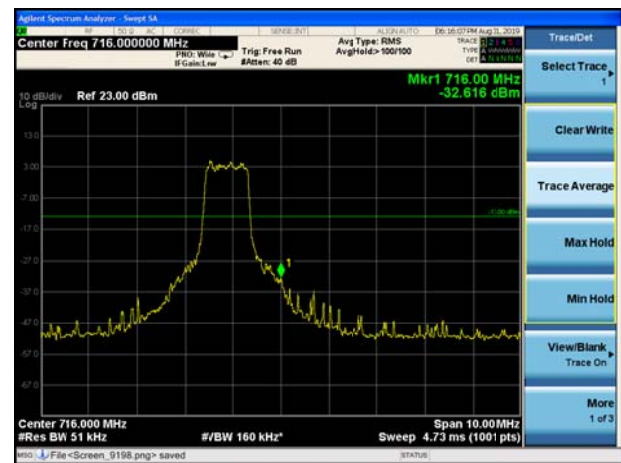




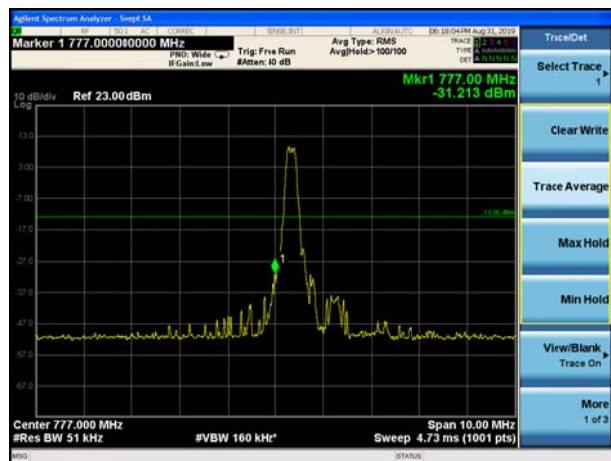
LTE Band 12 16QAM 10MHz CH-Low, 100%RB



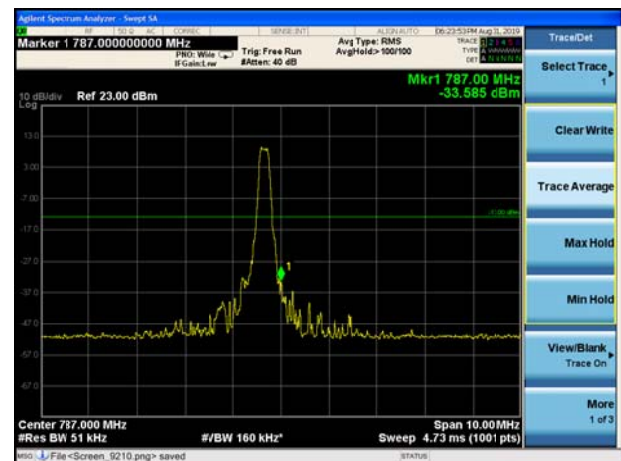
LTE Band 12 16QAM 10MHz CH-High, 100%RB



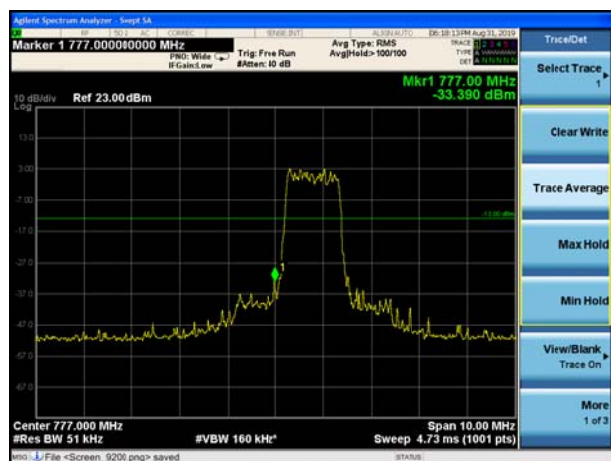
LTE Band 13 QPSK 5MHz CH-Low, 1 RB



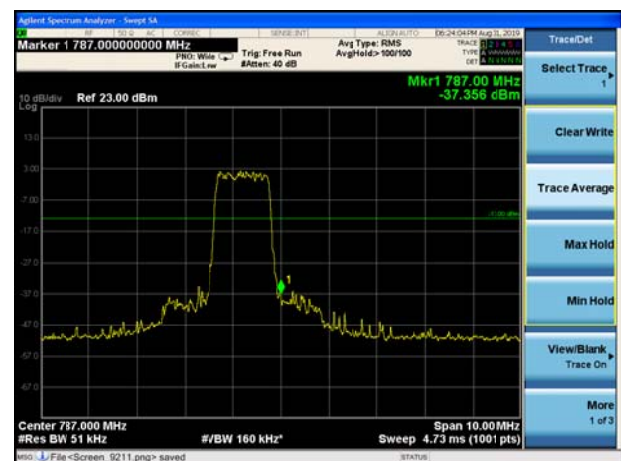
LTE Band 13 QPSK 5MHz CH-High, 1 RB



LTE Band 13 QPSK 5MHz CH-Low, 100%RB

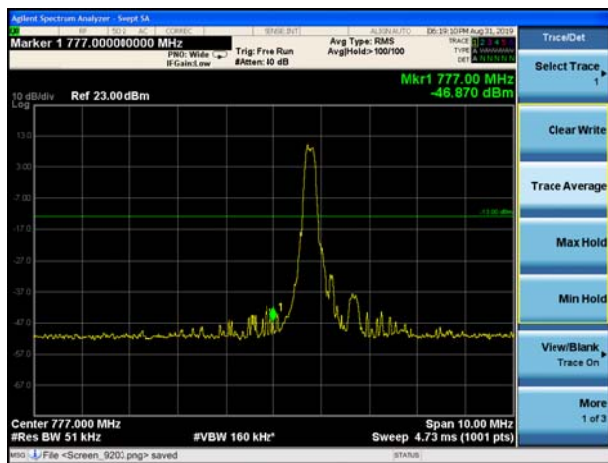


LTE Band 13 QPSK 5MHz CH- High, 100%RB

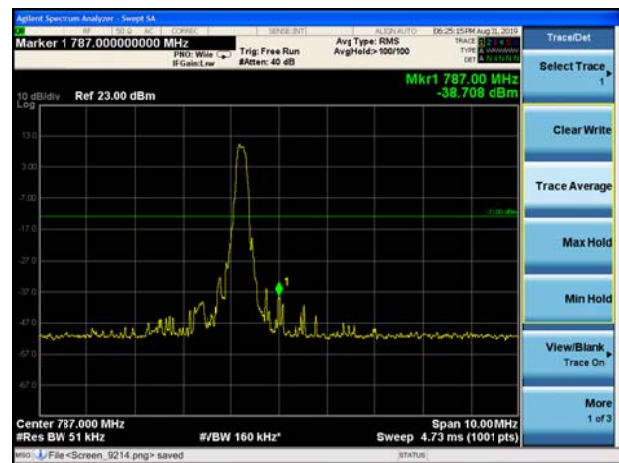




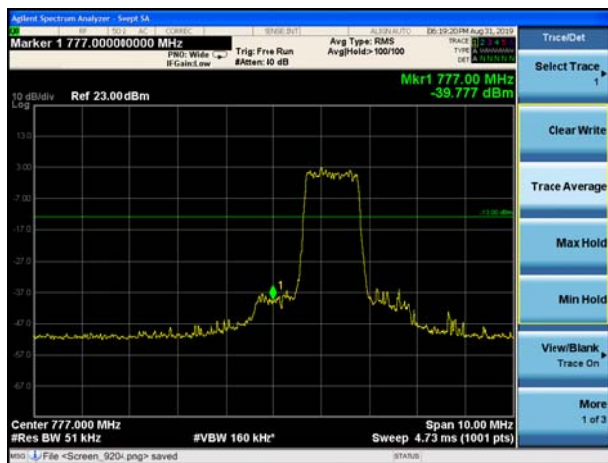
LTE Band 13 QPSK 10MHz CH-Low, 1 RB



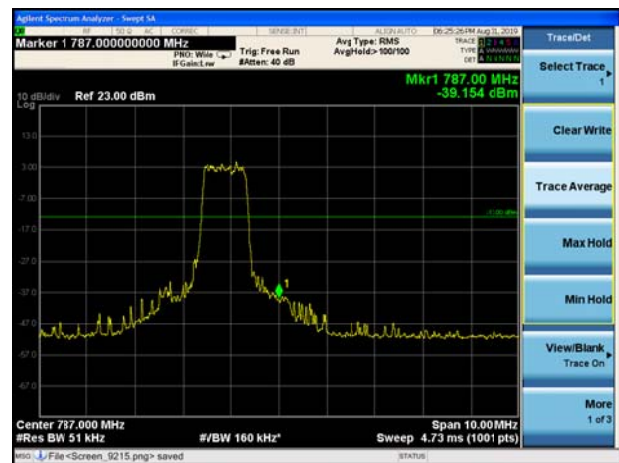
LTE Band 13 QPSK 10MHz CH-High, 1 RB



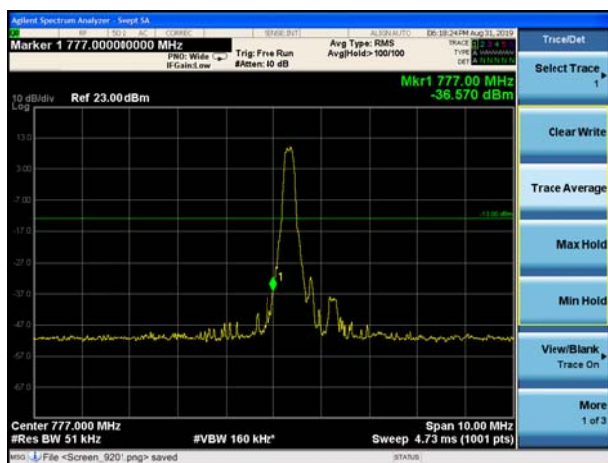
LTE Band 13 QPSK 10MHz CH-Low, 100%RB



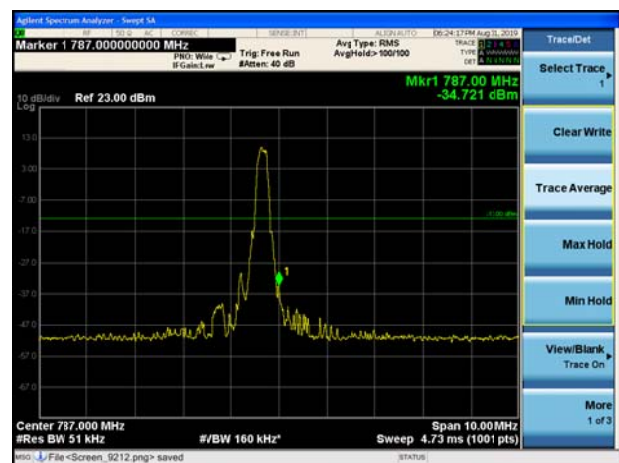
LTE Band 13 QPSK 10MHz CH- High, 100%RB



LTE Band 13 16QAM 5MHz CH-Low, 1 RB

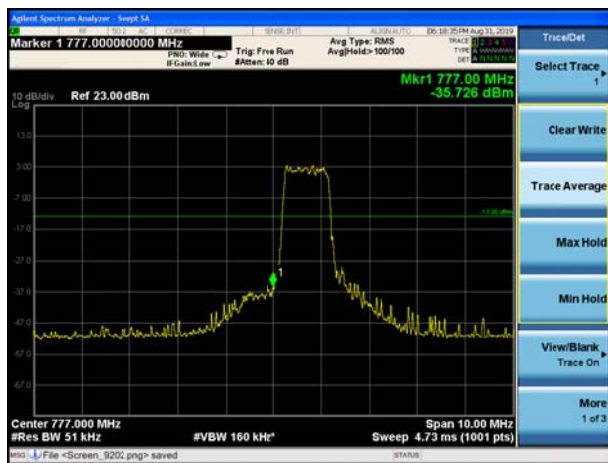


LTE Band 13 16QAM 5MHz CH-High, 1 RB

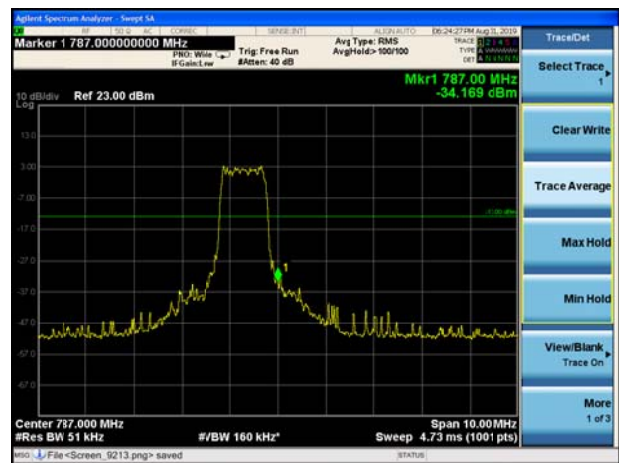




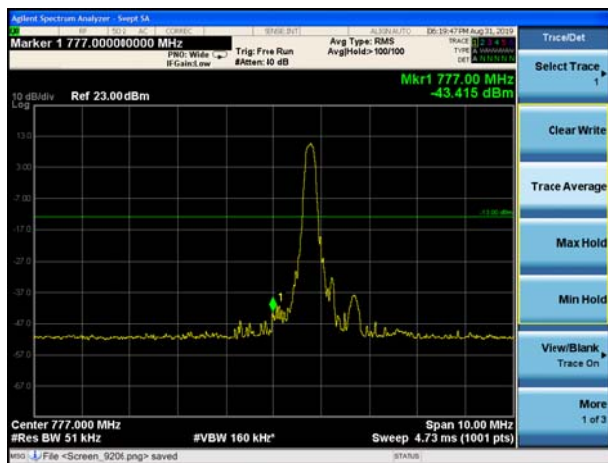
LTE Band 13 16QAM 5MHz CH-Low, 100%RB



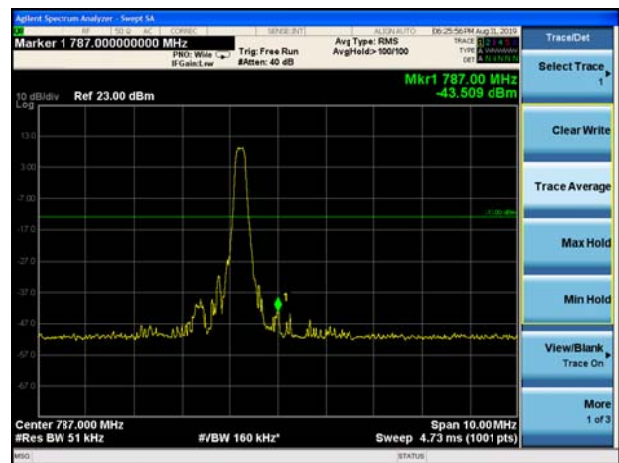
LTE Band 13 16QAM 5MHz CH- High, 100%RB



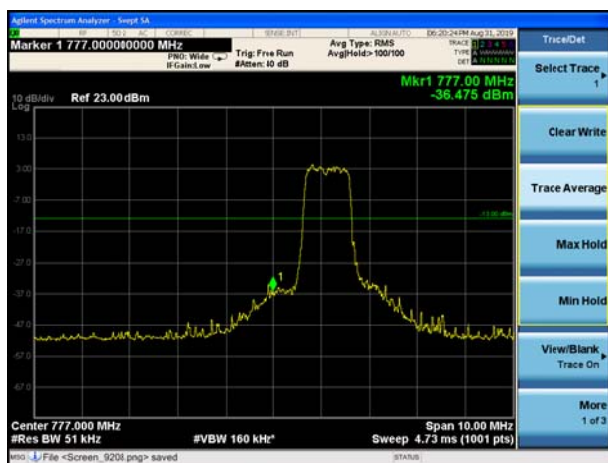
LTE Band 13 16QAM 10MHz CH-Low, 1 RB



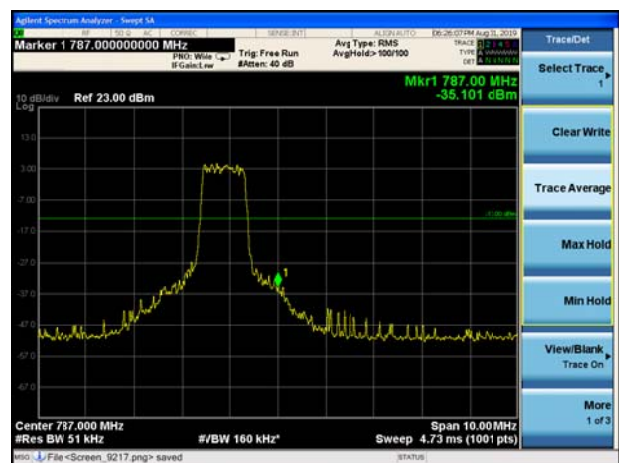
LTE Band 13 16QAM 10MHz CH-High, 1 RB

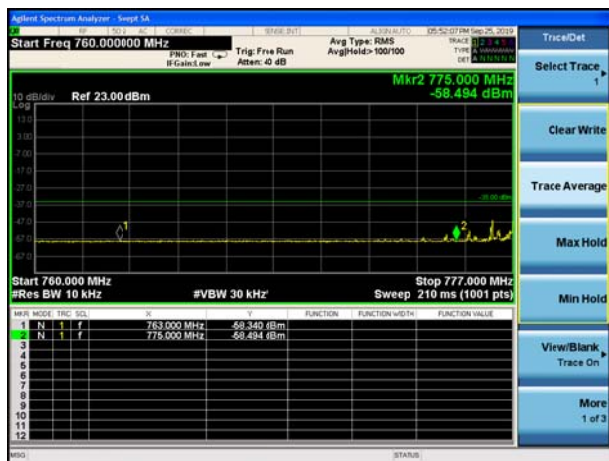
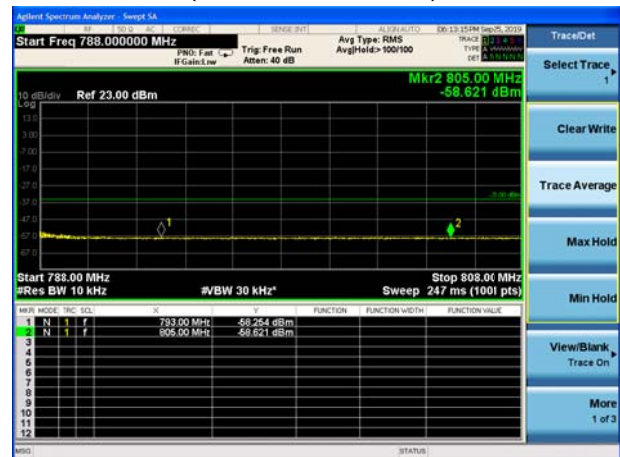
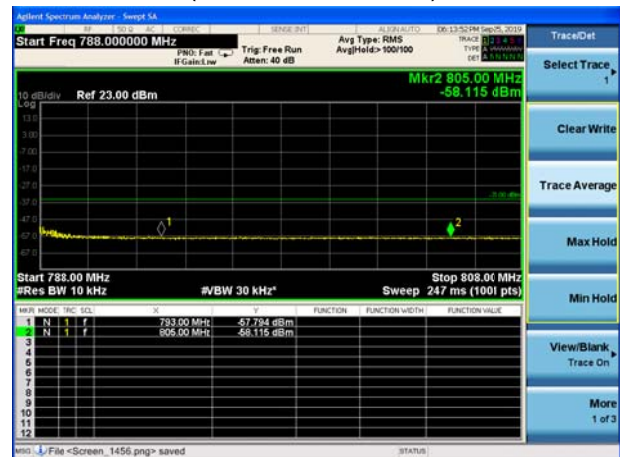
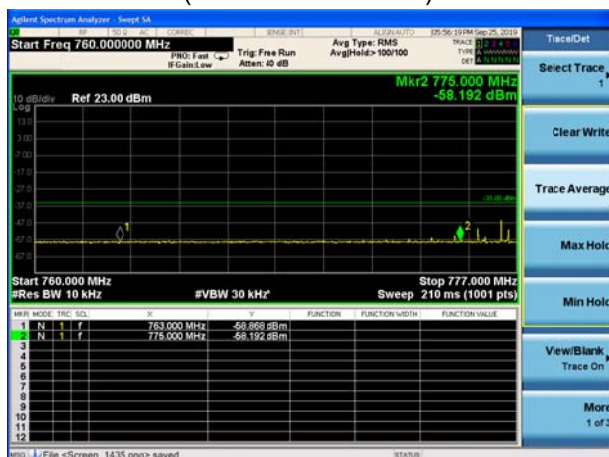


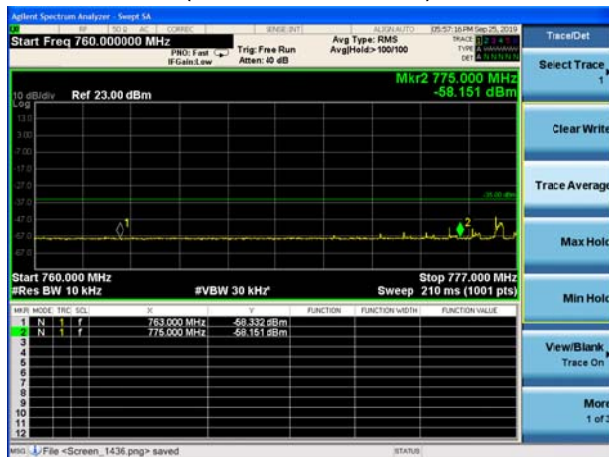
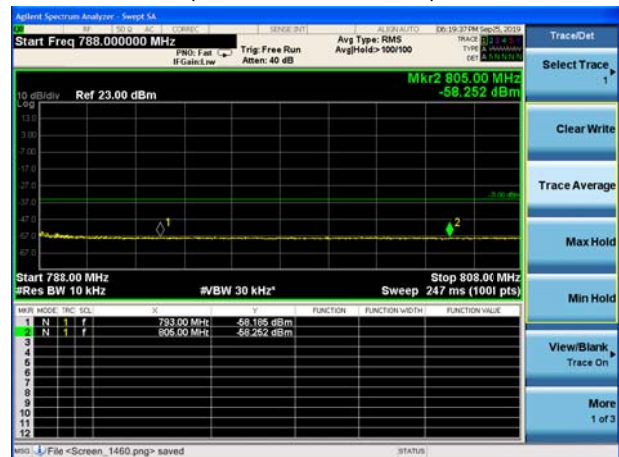
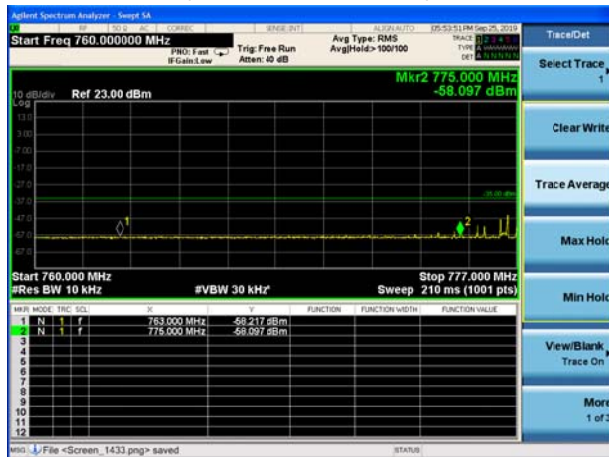
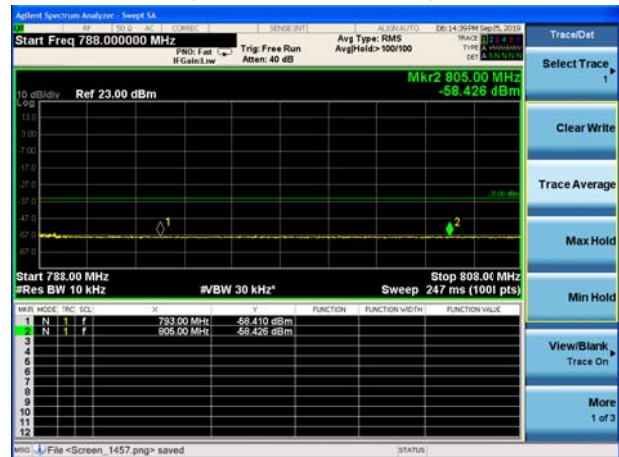
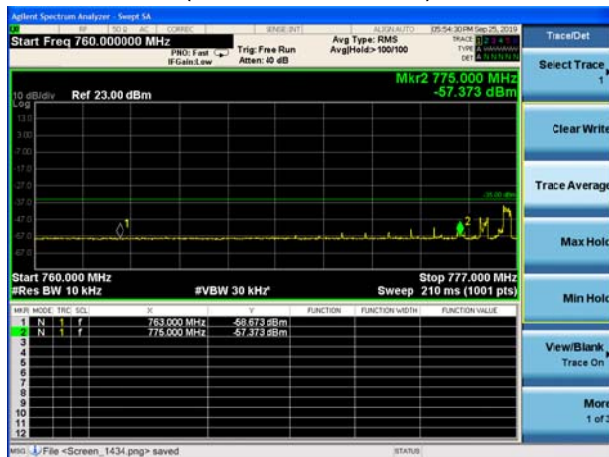
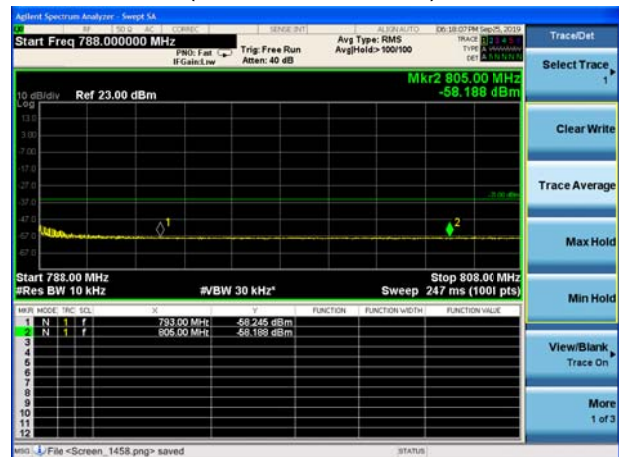
LTE Band 13 16QAM 10MHz CH-Low, 100%RB

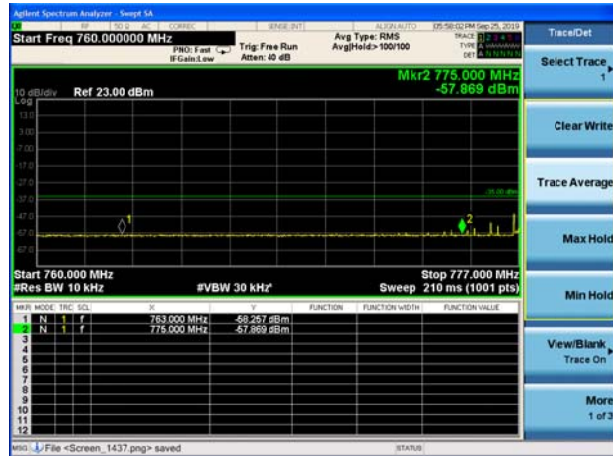
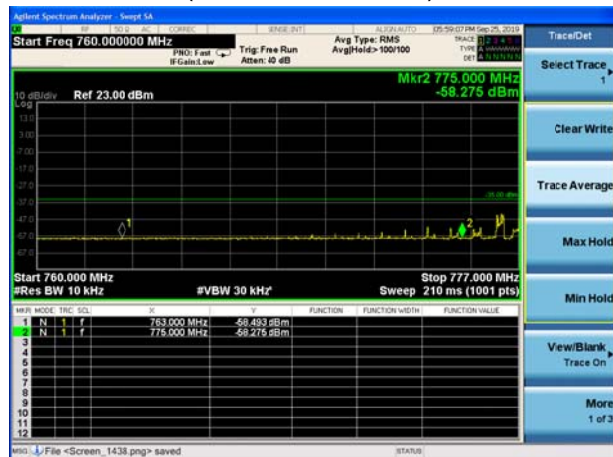


LTE Band 13 16QAM 10MHz CH- High, 100%RB



LTE Band 13 QPSK 5MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 QPSK 5MHz CH-Low, 1 RB
(793MHz ~805MHz)LTE Band 13 QPSK 5MHz CH-Low, 100%RB
(763MHz ~775MHz)LTE Band 13 QPSK 5MHz CH-Low, 100%RB
(793MHz ~805MHz)LTE Band 13 QPSK 10MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 QPSK 10MHz CH-Low, 1 RB
(793MHz ~805MHz)

LTE Band 13 QPSK 10MHz CH-Low, 100%RB
(763MHz ~775MHz)LTE Band 13 QPSK 10MHz CH-Low, 100%RB
(793MHz ~805MHz)LTE Band 13 16QAM 5MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 16QAM 5MHz CH-Low, 1 RB
(793MHz ~805MHz)LTE Band 13 16QAM 5MHz CH-Low, 100%RB
(763MHz ~775MHz)LTE Band 13 16QAM 5MHz CH-Low, 100%RB
(793MHz ~805MHz)

LTE Band 13 16QAM 10MHz CH-Low, 1 RB
(763MHz ~775MHz)LTE Band 13 16QAM 10MHz CH-Low, 1 RB
(793MHz ~805MHz)LTE Band 13 16QAM 10MHz CH-Low, 100%RB
(763MHz ~775MHz)LTE Band 13 16QAM 10MHz CH-Low, 100%RB
(793MHz ~805MHz)