



TEST REPORT

APPLICANT : Great Talent Technology Limited

PRODUCT NAME : Smart phone

MODEL NAME : freedom turbo XL

BRAND NAME : Shock

FCC ID : 2ALZM-TURBOXL

STANDARD(S) : 47 CFR Part 2,
47 CFR Part 90, Subpart S

RECEIPT DATE : 2020-06-28

TEST DATE : 2020-07-01 to 2020-08-12

ISSUE DATE : 2020-10-20

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Zhou Xiaolong(Rapporteur)

Approved by: Peng Huarui
Peng Huarui (Supervisor)

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DIRECTORY

- 1. Technical Information 4
- 1.1. Applicant and Manufacturer Information 4
- 1.2. Equipment Under Test (EUT) Description 5
- 1.3. Maximum ERP/EIRP and Emission Designator 6
- 1.4. Test Standards and Results 7
- 1.5. Environmental Conditions 8
- 2. 47 CFR Part 2, and Part 90 S Requirements 9
- 2.1. Transmitter Conducted Output Power And ERP/EIRP 9
- 2.2. Occupied Bandwidth 18
- 2.3. Frequency Stability 27
- 2.4. Peak to Average Radio 29
- 2.5. Conducted Spurious Emissions 30
- 2.6. Band Edge 38
- 2.7. Radiated Spurious Emissions 41
- Annex A Test Uncertainty 45
- Annex B Testing Laboratory Information 45



REPORT No. : SZ20060303W03

Change History		
Version	Date	Reason for change
1.0	2020-10-20	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Great Talent Technology Limited
Applicant Address:	RM602, T3 Software Park, Nanshan, Shenzhen, China
Manufacturer:	Unimaxcomm
ManufacturerAddress:	Floor 35th, HBC Huilong Centre 2nd Phase office building, Minzhi Street, Longhua District, Shenzhen, P.R. China 518057



1.2. Equipment Under Test (EUT) Description

Product Name:	Smart phone	
Hardware Version:	V10_0506	
Software Version:	Q6501_SFT656128_V1.0.29-userdebug	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 26	
Frequency Range:	LTE Band 26	Tx: 824MHz – 849MHz
		Rx: 869MHz – 894MHz
Channel Bandwidth:	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz
Antenna Type:	Fixed Internal	
Antenna Gain:	LTE Band 26	1.09 dBi
Accessory Information:	Battery	
	Brand Name:	Milai
	Model No.:	426684P4000
	Capacity:	4000 mAh
	Rated Voltage:	3.85 V
	Charge Limit:	4.40 V
	AC Adapter	
	Brand Name:	Schok
	Model No.:	BLJ-QC06HU
	Rated Input:	100-240V ~ 50/60Hz 0.5A
	Rated Output:	5V=3.0A, 9V=2.0A, 12V=1.5A,



1.3. Maximum ERP/EIRP and Emission Designator

LTE Band26 BW(MHz)	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.137	0.114	0.114	8M99G7D	8M97W7D	8M98D7W
5	0.138	0.122	0.120	4M50G7D	4M50W7D	4M50D7W
3	0.174	0.152	0.146	2M70G7D	2M70W7D	2M71D7W
1.4	0.176	0.151	0.147	1M10G7D	1M10W7D	1M09D7W



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, and Part 90 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 90	Miscellaneous Wireless Communications Services

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

Section	Description	Test Date	Test Engineer	Result
2.1046, 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	Jul 18, 2020	Liang Yumei	PASS
90.209	Occupied Bandwidth	Jul 1 to 23, 2020	Zhou Xiaolong	PASS
2.1055, 90.213	Frequency Stability	Jul 1 to 23, 2020	Zhou Xiaolong	PASS
2.1051,90.691	Peak to Average Ratio	Jul 1 to 23, 2020	Zhou Xiaolong	PASS
2.1051,90.691	Conducted Spurious Emissions	Jul 1 to Aug 12, 2020	Zhou Xiaolong	PASS
2.1051, 90.691	Band Edge	Jul 1 to 23, 2020	Zhou Xiaolong	PASS
2.1046, 90.635(b)	Radiated Spurious Emissions	Jul 3, 2020	Peng Xuewei	PASS

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017) and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.



1.5. Environmental Conditions

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

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

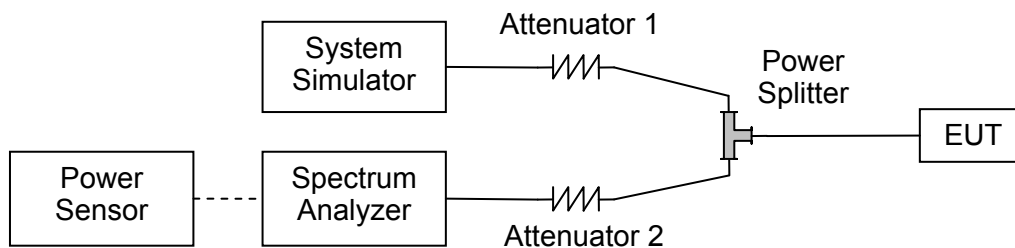
2.47 CFR Part 2, and Part 90 S Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

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

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

2.1.4. Result



Conducted Output Power:

LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	26740	/
Frequency (MHz)				/	819.0	/
10	QPSK	1	0	/	23.50	/
10	QPSK	1	25	/	23.46	/
10	QPSK	1	49	/	23.35	/
10	QPSK	25	0	/	22.56	/
10	QPSK	25	12	/	22.54	/
10	QPSK	25	25	/	22.44	/
10	QPSK	50	0	/	22.55	/
10	16QAM	1	0	/	22.53	/
10	16QAM	1	25	/	22.51	/
10	16QAM	1	49	/	22.68	/
10	16QAM	25	0	/	21.62	/
10	16QAM	25	12	/	21.57	/
10	16QAM	25	25	/	21.42	/
10	16QAM	50	0	/	21.54	/
10	64QAM	1	0	/	22.56	/
10	64QAM	1	25	/	22.68	/
10	64QAM	1	49	/	22.41	/
10	64QAM	25	0	/	21.62	/
10	64QAM	25	12	/	21.53	/
10	64QAM	25	25	/	21.56	/
10	64QAM	50	0	/	21.60	/



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26715	26740	26765
Frequency (MHz)				816.5	819.0	821.5
5	QPSK	1	0	23.38	23.46	23.46
5	QPSK	1	12	23.37	23.40	23.51
5	QPSK	1	24	23.50	23.41	23.50
5	QPSK	12	0	22.46	22.57	22.59
5	QPSK	12	7	22.45	22.54	22.56
5	QPSK	12	13	22.48	22.45	22.50
5	QPSK	25	0	22.52	22.56	22.57
5	16QAM	1	0	22.85	22.59	22.90
5	16QAM	1	12	22.85	22.57	23.00
5	16QAM	1	24	22.73	22.57	22.70
5	16QAM	12	0	21.53	21.58	21.69
5	16QAM	12	7	21.52	21.55	21.68
5	16QAM	12	13	21.50	21.49	21.52
5	16QAM	25	0	21.62	21.50	21.52
5	64QAM	1	0	22.76	22.61	22.74
5	64QAM	1	12	22.41	22.90	22.58
5	64QAM	1	24	22.41	22.81	22.54
5	64QAM	12	0	21.53	21.53	21.61
5	64QAM	12	7	21.43	21.46	21.55
5	64QAM	12	13	21.44	21.57	21.60
5	64QAM	25	0	21.57	21.52	21.63



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26705	26740	26775
Frequency (MHz)				815.5	819.0	822.5
3	QPSK	1	0	23.29	23.40	23.47
3	QPSK	1	8	23.42	23.41	23.46
3	QPSK	1	14	23.45	23.37	23.34
3	QPSK	8	0	22.50	22.53	22.55
3	QPSK	8	4	22.44	22.58	22.42
3	QPSK	8	7	22.45	22.47	22.53
3	QPSK	15	0	22.48	22.48	22.53
3	16QAM	1	0	22.46	22.43	22.89
3	16QAM	1	8	22.50	22.52	22.85
3	16QAM	1	14	22.40	22.51	22.62
3	16QAM	8	0	21.46	21.60	21.56
3	16QAM	8	4	21.50	21.65	21.46
3	16QAM	8	7	21.45	21.64	21.63
3	16QAM	15	0	21.49	21.71	21.68
3	64QAM	1	0	22.24	22.39	22.35
3	64QAM	1	8	22.22	22.33	22.58
3	64QAM	1	14	22.38	22.32	22.71
3	64QAM	8	0	21.37	21.57	21.76
3	64QAM	8	4	21.45	21.53	21.53
3	64QAM	8	7	21.35	21.50	21.48
3	64QAM	15	0	21.50	21.50	21.56



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26697	26740	26783
Frequency (MHz)				814.7	819.0	823.3
1.4	QPSK	1	0	23.32	23.40	23.37
1.4	QPSK	1	3	23.39	23.51	23.38
1.4	QPSK	1	5	23.40	23.35	23.33
1.4	QPSK	3	0	23.29	23.35	23.48
1.4	QPSK	3	1	23.33	23.50	23.41
1.4	QPSK	3	3	23.39	23.42	23.42
1.4	QPSK	6	0	22.39	22.45	22.52
1.4	16QAM	1	0	22.49	22.65	22.59
1.4	16QAM	1	3	22.86	22.48	22.45
1.4	16QAM	1	5	22.66	22.58	22.44
1.4	16QAM	3	0	22.39	22.45	22.47
1.4	16QAM	3	1	22.43	22.56	22.38
1.4	16QAM	3	3	22.26	22.27	22.34
1.4	16QAM	6	0	21.48	21.50	21.70
1.4	64QAM	1	0	22.28	22.74	22.42
1.4	64QAM	1	3	22.52	22.68	22.42
1.4	64QAM	1	5	22.42	22.40	22.40
1.4	64QAM	3	0	22.51	22.60	22.27
1.4	64QAM	3	1	22.50	22.27	22.50
1.4	64QAM	3	3	22.43	22.71	22.35
1.4	64QAM	6	0	21.55	21.43	21.59



Effective Radiated Power and Effective Isotropic Radiated Power:

LTE Band 26							
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.		Average Power High Ch. / Freq.
Channel				/	26740		/
Frequency (MHz)				/	819.0		/
				/	dbm	W	/
10	QPSK	1	0	/	21.38	0.137	/
10	QPSK	1	25	/	21.34	0.136	/
10	QPSK	1	49	/	21.23	0.133	/
10	QPSK	25	0	/	20.44	0.111	/
10	QPSK	25	12	/	20.42	0.110	/
10	QPSK	25	25	/	20.32	0.108	/
10	QPSK	50	0	/	20.43	0.110	/
10	16QAM	1	0	/	20.41	0.110	/
10	16QAM	1	25	/	20.39	0.109	/
10	16QAM	1	49	/	20.56	0.114	/
10	16QAM	25	0	/	19.50	0.089	/
10	16QAM	25	12	/	19.45	0.088	/
10	16QAM	25	25	/	19.30	0.085	/
10	16QAM	50	0	/	19.42	0.087	/
10	64QAM	1	0	/	20.44	0.111	/
10	64QAM	1	25	/	20.56	0.114	/
10	64QAM	1	49	/	20.29	0.107	/
10	64QAM	25	0	/	19.50	0.089	/
10	64QAM	25	12	/	19.41	0.087	/
10	64QAM	25	25	/	19.44	0.088	/
10	64QAM	50	0	/	19.48	0.089	/



LTE Band 26									
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.		Average Power Middle Ch. / Freq.		Average Power High Ch. / Freq.	
Channel				26715		26740		26765	
Frequency (MHz)				816.5		819.0		821.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.38	0.137	21.21	0.132	21.39	0.138
5	QPSK	1	12	21.26	0.134	21.34	0.136	21.34	0.136
5	QPSK	1	24	21.25	0.133	21.28	0.134	21.39	0.138
5	QPSK	12	0	21.38	0.137	21.29	0.135	21.38	0.137
5	QPSK	12	7	20.34	0.108	20.45	0.111	20.47	0.111
5	QPSK	12	13	20.33	0.108	20.42	0.110	20.44	0.111
5	QPSK	25	0	20.36	0.109	20.33	0.108	20.38	0.109
5	16QAM	1	0	20.40	0.110	20.44	0.111	20.45	0.111
5	16QAM	1	12	20.73	0.118	20.47	0.111	20.78	0.120
5	16QAM	1	24	20.73	0.118	20.45	0.111	20.88	0.122
5	16QAM	12	0	20.61	0.115	20.45	0.111	20.58	0.114
5	16QAM	12	7	19.41	0.087	19.46	0.088	19.57	0.091
5	16QAM	12	13	19.40	0.087	19.43	0.088	19.56	0.090
5	16QAM	25	0	19.38	0.087	19.37	0.086	19.40	0.087
5	64QAM	1	0	19.50	0.089	19.38	0.087	19.40	0.087
5	64QAM	1	12	20.64	0.116	20.49	0.112	20.62	0.115
5	64QAM	1	24	20.29	0.107	20.78	0.120	20.46	0.111
5	64QAM	12	0	20.29	0.107	20.69	0.117	20.42	0.110
5	64QAM	12	7	19.41	0.087	19.41	0.087	19.49	0.089
5	64QAM	12	13	19.31	0.085	19.34	0.086	19.43	0.088
5	64QAM	25	0	19.32	0.086	19.45	0.088	19.48	0.089



LTE Band 26									
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.		Average Power Middle Ch. / Freq.		Average Power High Ch. / Freq.	
Channel				26705		26740		26775	
Frequency (MHz)				815.5		819.0		822.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	22.23	0.167	22.34	0.171	22.41	0.174
3	QPSK	1	8	22.36	0.172	22.35	0.172	22.40	0.174
3	QPSK	1	14	22.39	0.173	22.31	0.170	22.28	0.169
3	QPSK	8	0	21.44	0.139	21.47	0.140	21.49	0.141
3	QPSK	8	4	21.38	0.137	21.52	0.142	21.36	0.137
3	QPSK	8	7	21.39	0.138	21.41	0.138	21.47	0.140
3	QPSK	15	0	21.42	0.139	21.42	0.139	21.47	0.140
3	16QAM	1	0	21.40	0.138	21.37	0.137	21.83	0.152
3	16QAM	1	8	21.44	0.139	21.46	0.140	21.79	0.151
3	16QAM	1	14	21.34	0.136	21.45	0.140	21.56	0.143
3	16QAM	8	0	20.40	0.110	20.54	0.113	20.50	0.112
3	16QAM	8	4	20.44	0.111	20.59	0.115	20.40	0.110
3	16QAM	8	7	20.39	0.109	20.58	0.114	20.57	0.114
3	16QAM	15	0	20.43	0.110	20.65	0.116	20.62	0.115
3	64QAM	1	0	21.18	0.131	21.33	0.136	21.29	0.135
3	64QAM	1	8	21.16	0.131	21.27	0.134	21.52	0.142
3	64QAM	1	14	21.32	0.136	21.26	0.134	21.65	0.146
3	64QAM	8	0	20.31	0.107	20.51	0.112	20.70	0.117
3	64QAM	8	4	20.39	0.109	20.47	0.111	20.47	0.111
3	64QAM	8	7	20.29	0.107	20.44	0.111	20.42	0.110
3	64QAM	15	0	20.44	0.111	20.44	0.111	20.50	0.112



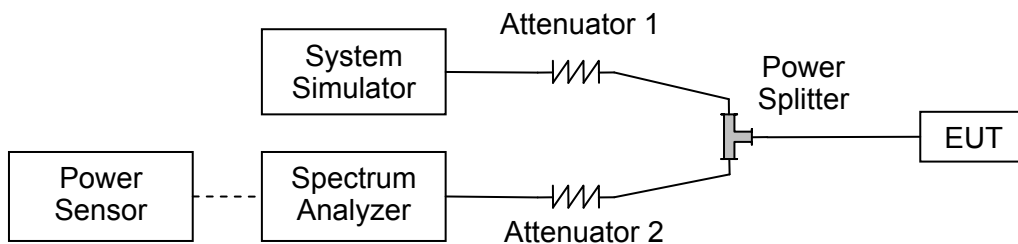
LTE Band 26									
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.		Average Power Middle Ch. / Freq.		Average Power High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	22.26	0.168	22.34	0.171	22.31	0.170
1.4	QPSK	1	3	22.33	0.171	22.45	0.176	22.32	0.171
1.4	QPSK	1	5	22.34	0.171	22.29	0.169	22.27	0.169
1.4	QPSK	3	0	22.23	0.167	22.29	0.169	22.42	0.175
1.4	QPSK	3	1	22.27	0.169	22.44	0.175	22.35	0.172
1.4	QPSK	3	3	22.33	0.171	22.36	0.172	22.36	0.172
1.4	QPSK	6	0	21.33	0.136	21.39	0.138	21.46	0.140
1.4	16QAM	1	0	21.43	0.139	21.59	0.144	21.53	0.142
1.4	16QAM	1	3	21.80	0.151	21.42	0.139	21.39	0.138
1.4	16QAM	1	5	21.60	0.145	21.52	0.142	21.38	0.137
1.4	16QAM	3	0	21.33	0.136	21.39	0.138	21.41	0.138
1.4	16QAM	3	1	21.37	0.137	21.50	0.141	21.32	0.136
1.4	16QAM	3	3	21.20	0.132	21.21	0.132	21.28	0.134
1.4	16QAM	6	0	20.42	0.110	20.44	0.111	20.64	0.116
1.4	64QAM	1	0	21.22	0.132	21.68	0.147	21.36	0.137
1.4	64QAM	1	3	21.46	0.140	21.62	0.145	21.36	0.137
1.4	64QAM	1	5	21.36	0.137	21.34	0.136	21.34	0.136
1.4	64QAM	3	0	21.45	0.140	21.54	0.143	21.21	0.132
1.4	64QAM	3	1	21.44	0.139	21.21	0.132	21.44	0.139
1.4	64QAM	3	3	21.37	0.137	21.65	0.146	21.29	0.135
1.4	64QAM	6	0	20.49	0.112	20.37	0.109	20.53	0.113

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

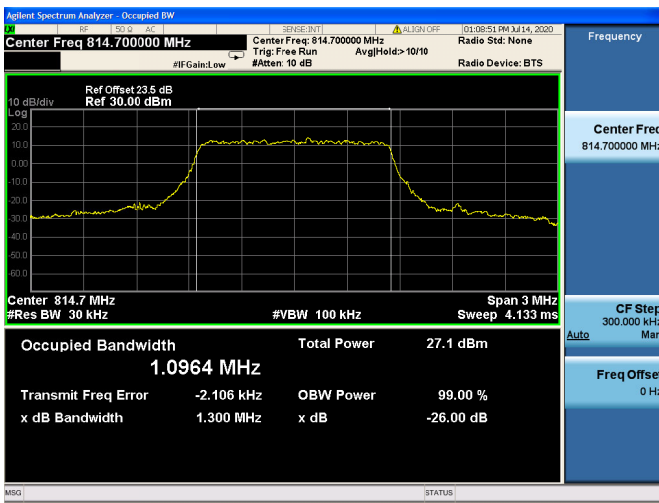


LTE Band 26				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.30
	Low	16QAM	1.09	1.29
	Low	64QAM	1.09	1.25
	Mid	QPSK	1.09	1.30
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.09	1.24
	High	QPSK	1.09	1.30
	High	16QAM	1.10	1.27
	High	64QAM	1.09	1.24
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	2.97
	Low	64QAM	2.71	2.98
	Mid	QPSK	2.70	2.97
	Mid	16QAM	2.70	2.96
	Mid	64QAM	2.70	3.00
	High	QPSK	2.70	2.97
	High	16QAM	2.70	2.96
	High	64QAM	2.71	3.00
5	Low	QPSK	4.50	5.00
	Low	16QAM	4.50	5.02
	Low	64QAM	4.50	4.98
	Mid	QPSK	4.50	5.00
	Mid	16QAM	4.50	4.98
	Mid	64QAM	4.50	4.96
	High	QPSK	4.50	5.05
	High	16QAM	4.50	5.05
	High	64QAM	4.50	4.96
10	Mid	QPSK	8.99	9.91
	Mid	16QAM	8.97	9.91
	Mid	64QAM	8.98	9.78

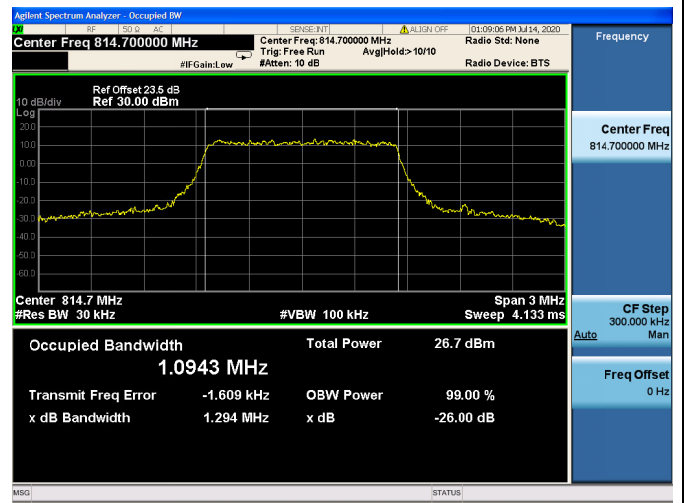


LTE Band 26 99% & 26dB Bandwidth

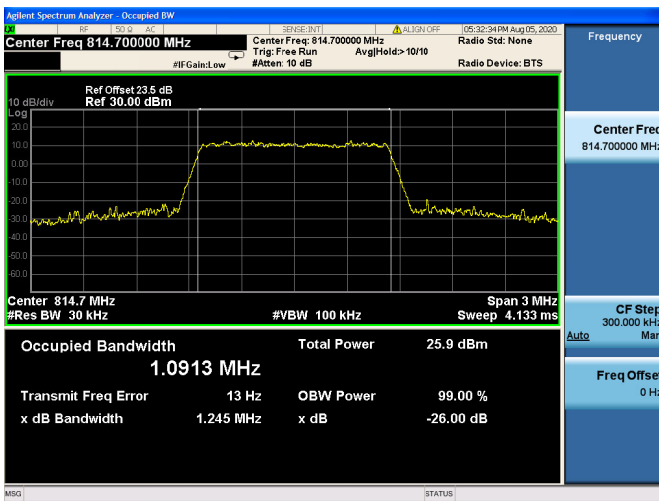
1.4MHz / QPSK / Low CH



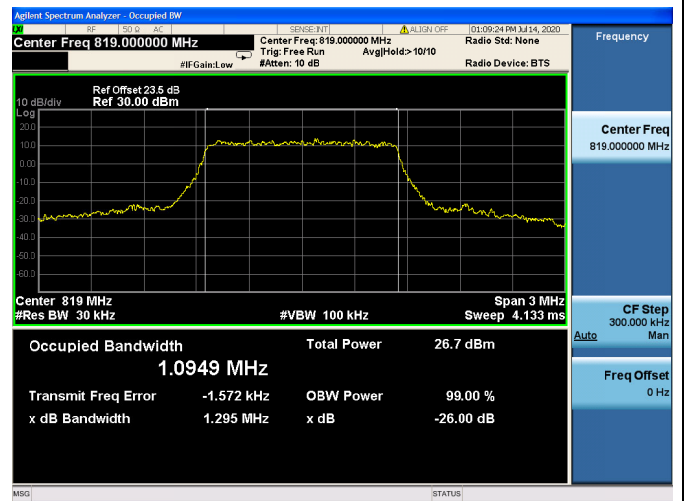
1.4MHz / 16QAM / Low CH

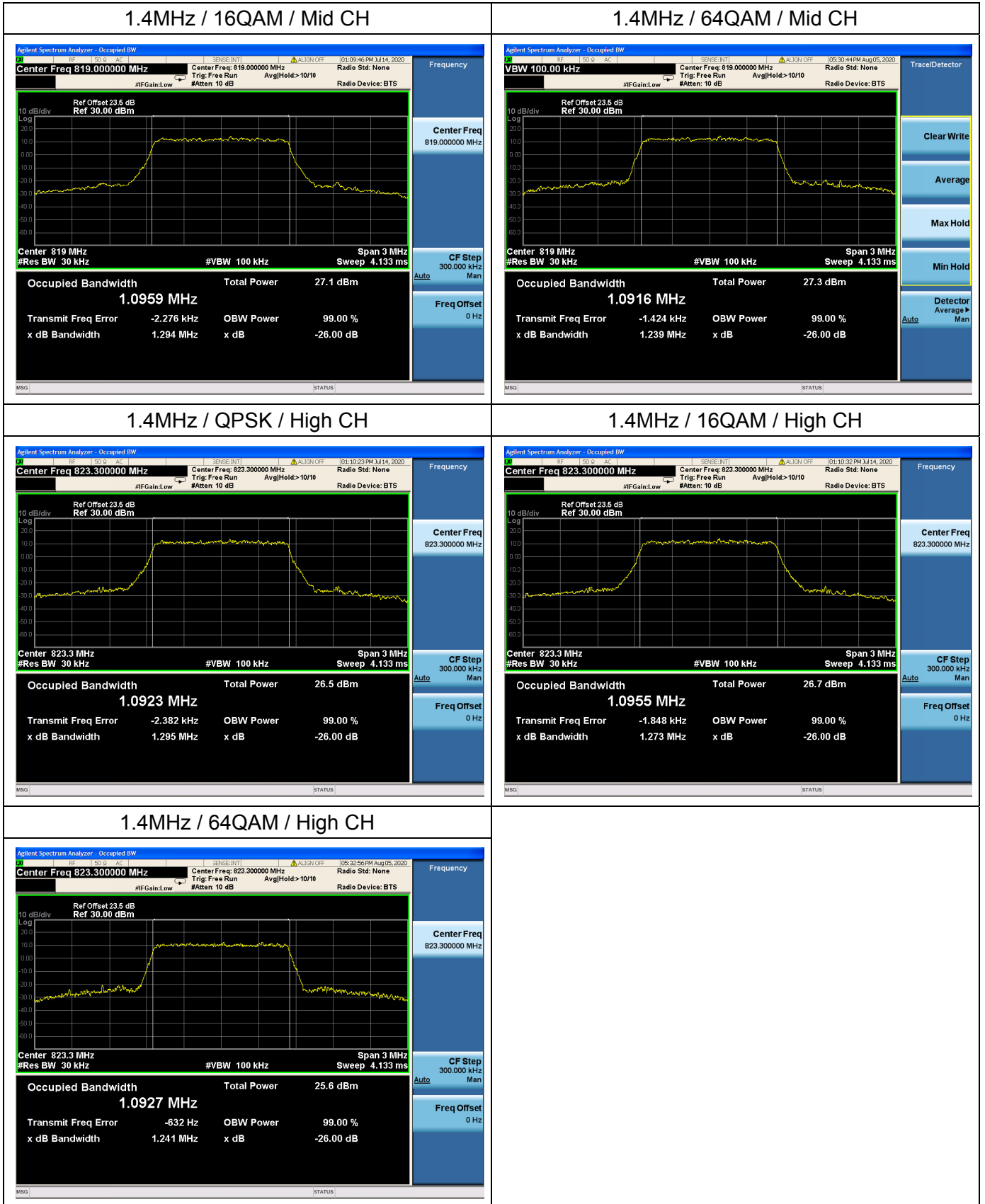


1.4MHz / 64QAM / Low CH



1.4MHz / QPSK / Mid CH

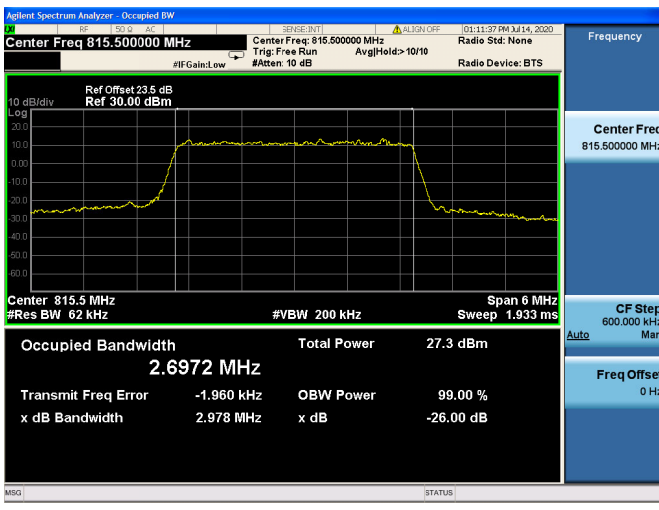






LTE Band 26 99% & 26dB Bandwidth

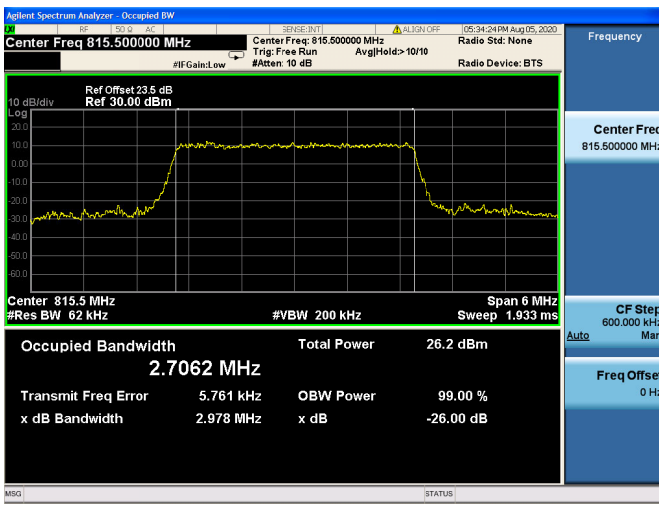
3MHz / QPSK / Low CH



3MHz /16QAM / Low CH

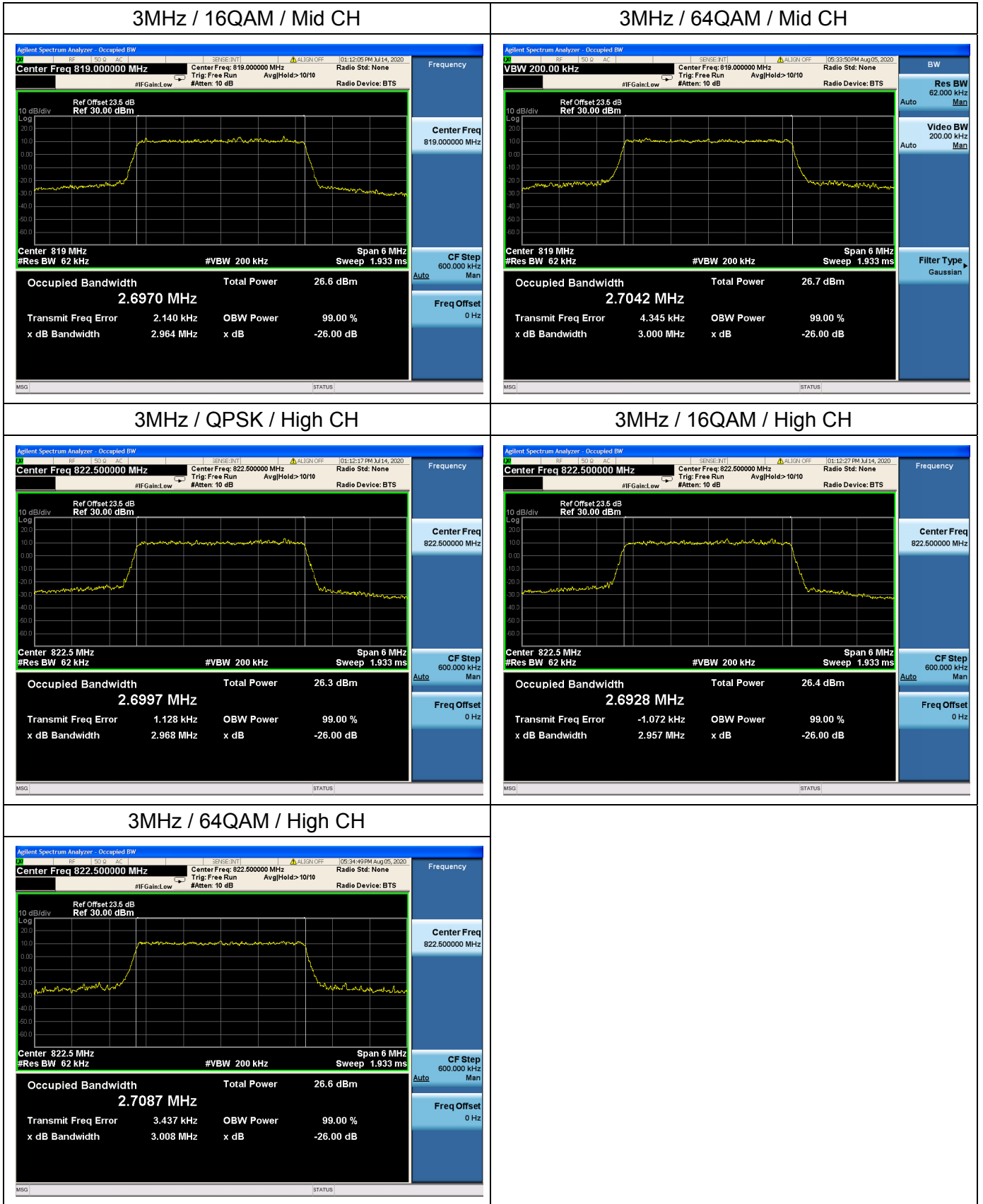


3MHz / 64QAM / Low CH



3MHz /QPSK / Mid CH

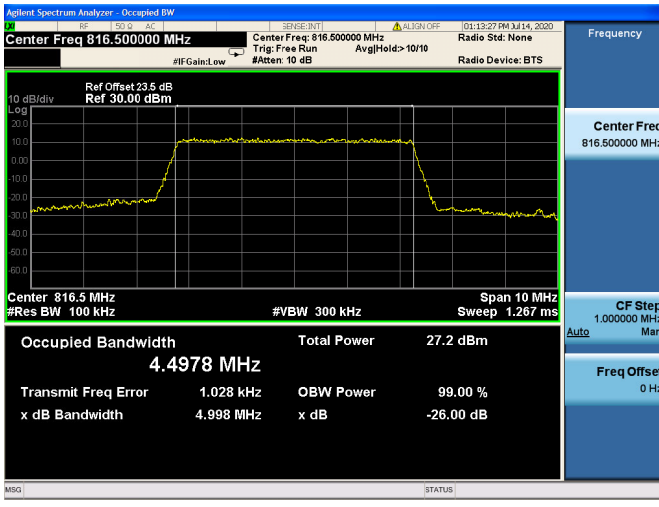




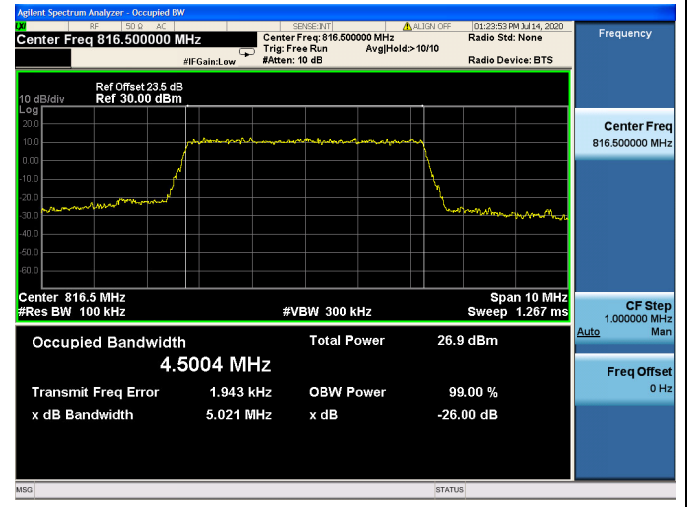


LTE Band 26 99% & 26dB Bandwidth

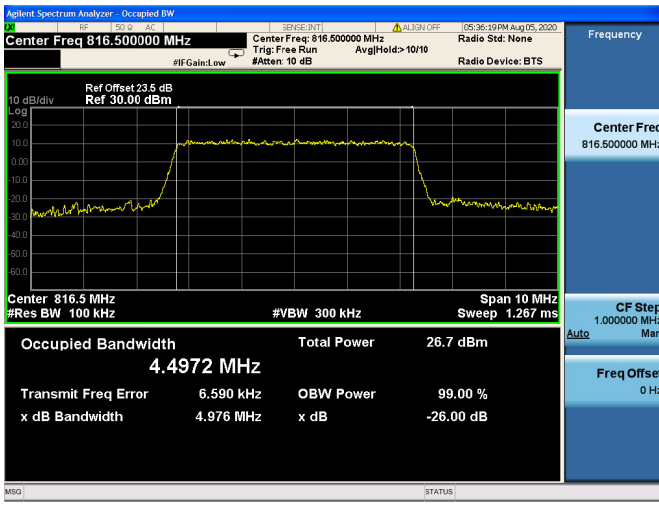
5MHz / QPSK / Low CH



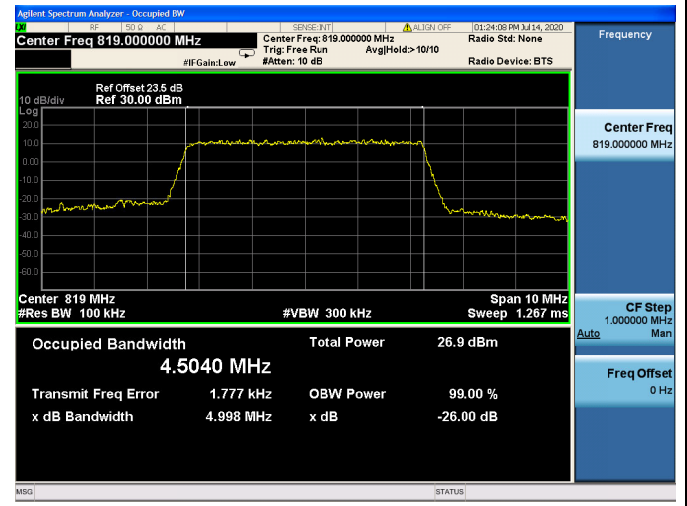
5MHz /16QAM / Low CH

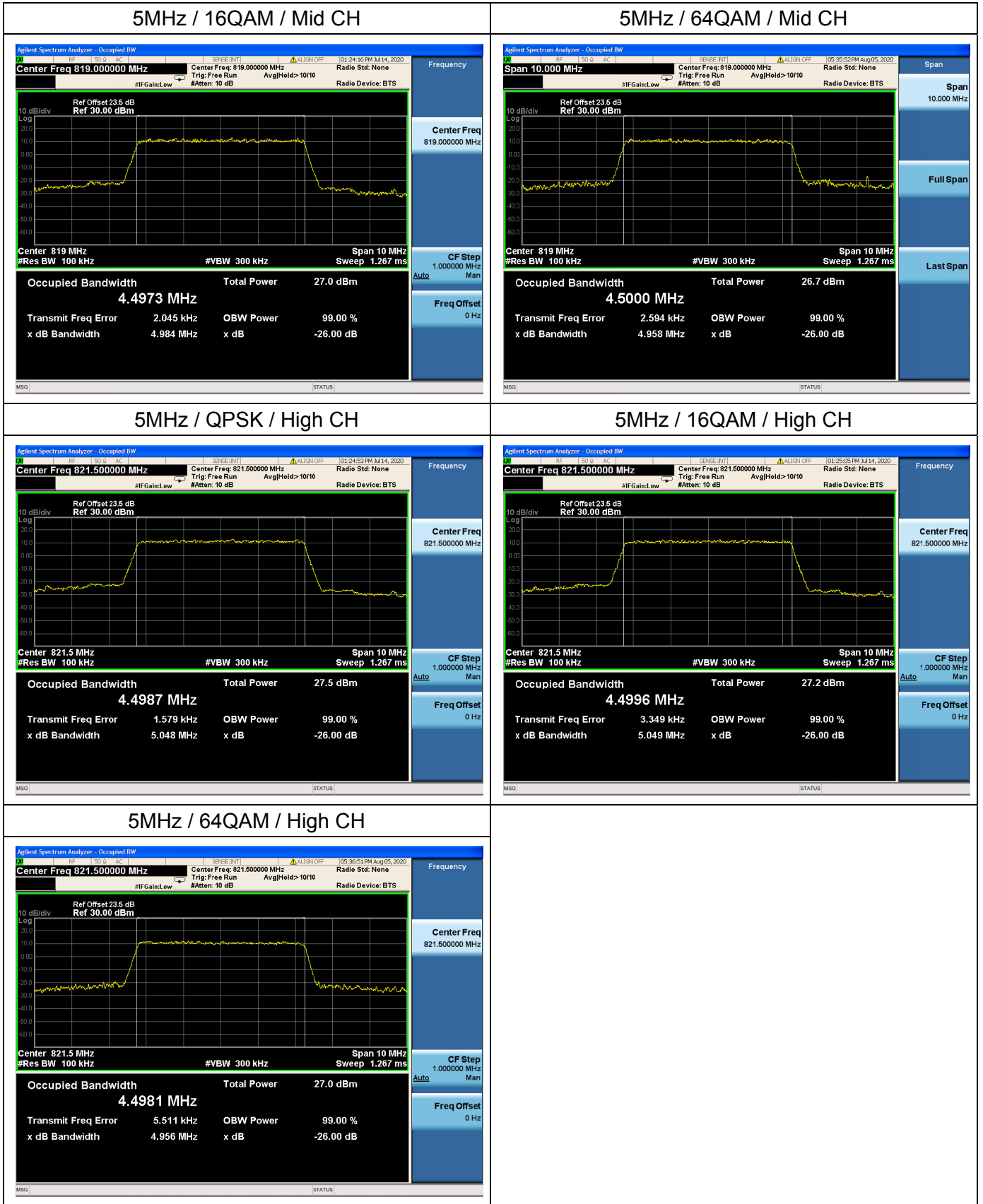


5MHz / 64QAM / Low CH



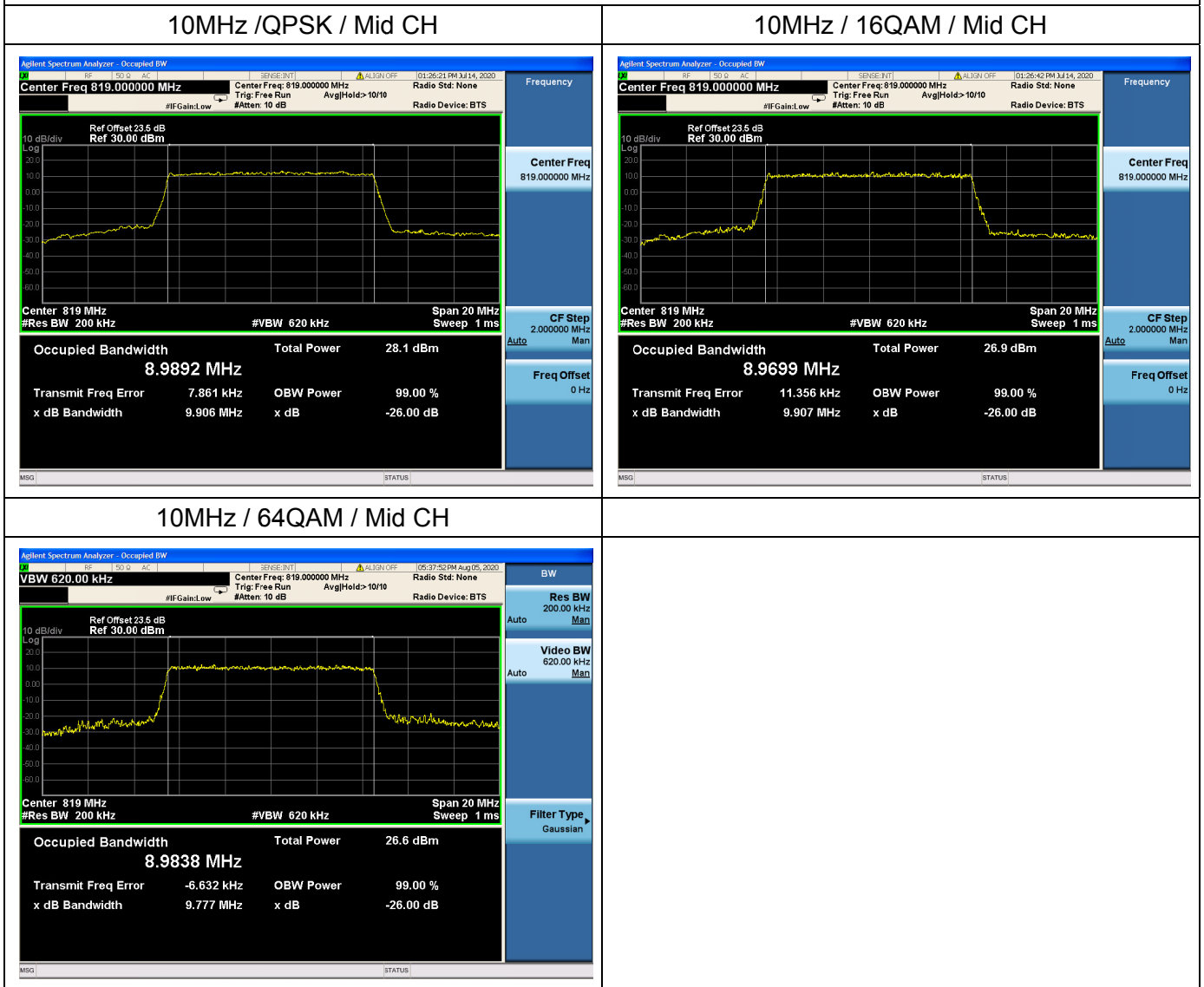
5MHz /QPSK / Mid CH







LTE Band 26 99% & 26dB Bandwidth



2.3. Frequency Stability

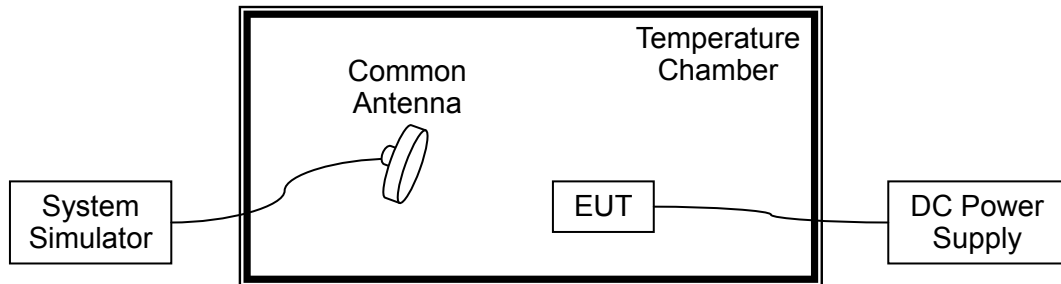
2.3.1. Requirement

According to FCC section 2.1055 & 90.213, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

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

Product operating temperature from -10°C to $+45^{\circ}\text{C}$

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85VDC, 4.40VDC and 3.70VDC, which are specified by the applicant; the normal temperature here used is 20°C .



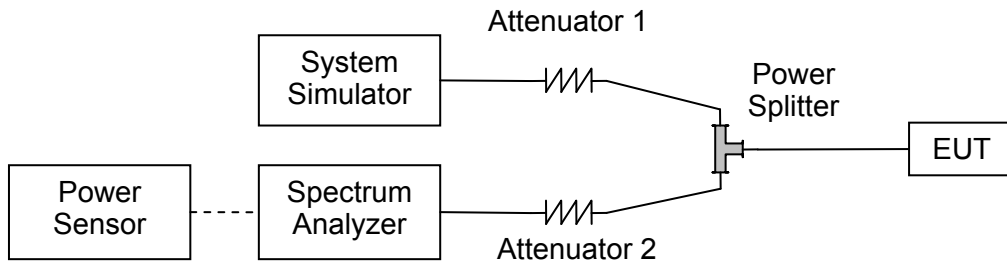
LTE Band 26, QPSK, Channel 26740, Frequency 819.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
100	3.85	+20 (Ref)	52	0.025	PASS
100		-10	-57	-0.027	
100		0	31	0.016	
100		+10	16	0.019	
100		+20	35	0.042	
100		+30	62	0.028	
100		+40	52	0.023	
100		+45	23	0.013	
115		4.40	+20	25	
85	3.70	+20	-42	-0.020	

2.4. Peak to Average Ratio

2.4.1. Requirement

2.4.2. Test Description

A. Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.

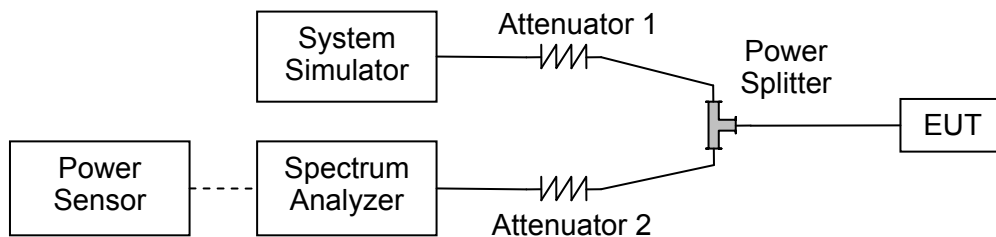
Note: PART 90 sections are none of the result

2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test procedure

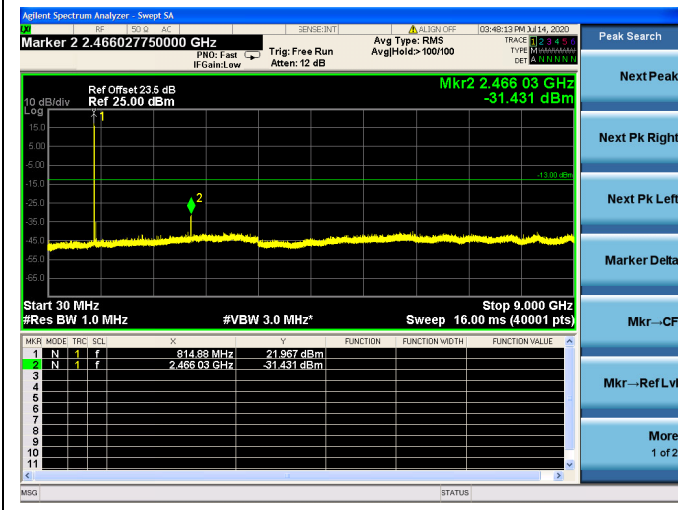
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

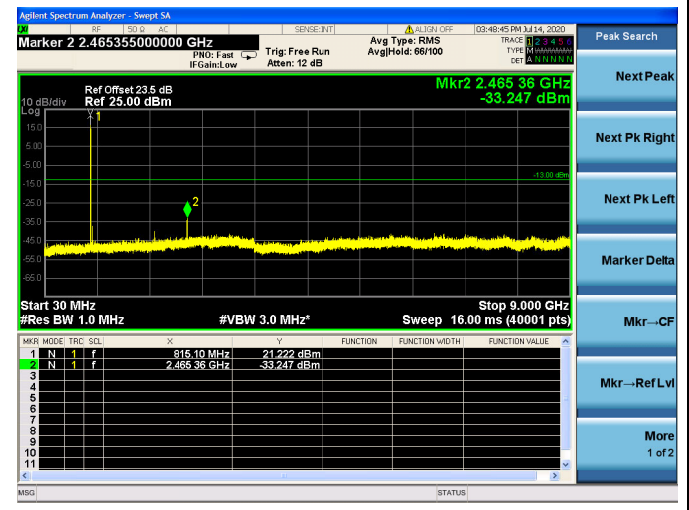


LTE Band 26

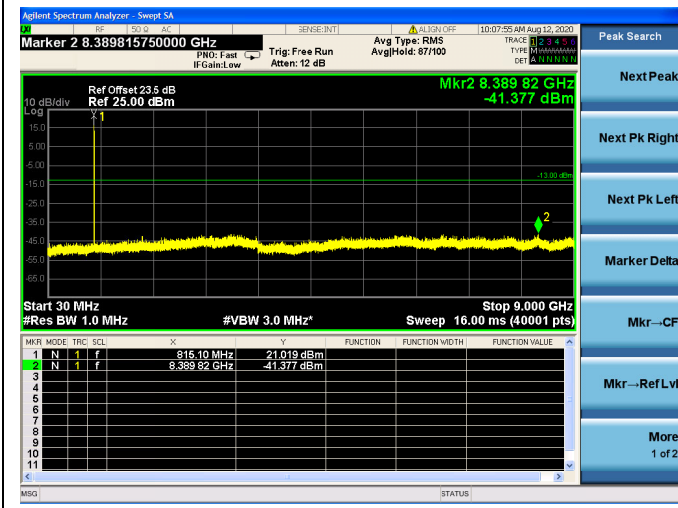
1.4MHz/QPSK / LCH



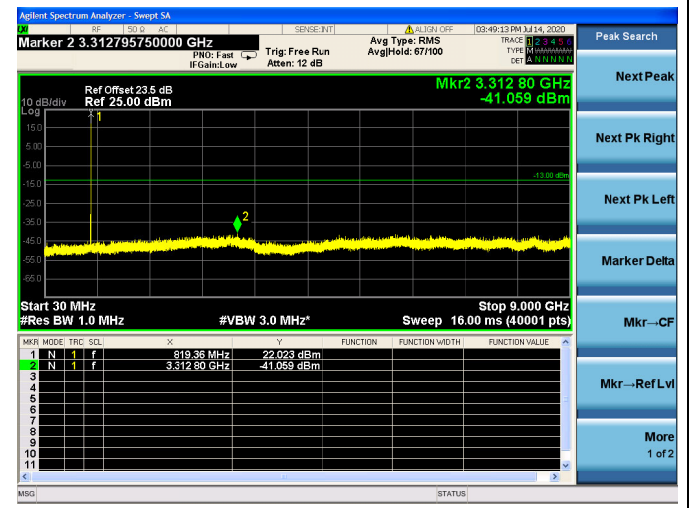
1.4MHz/16QAM / LCH

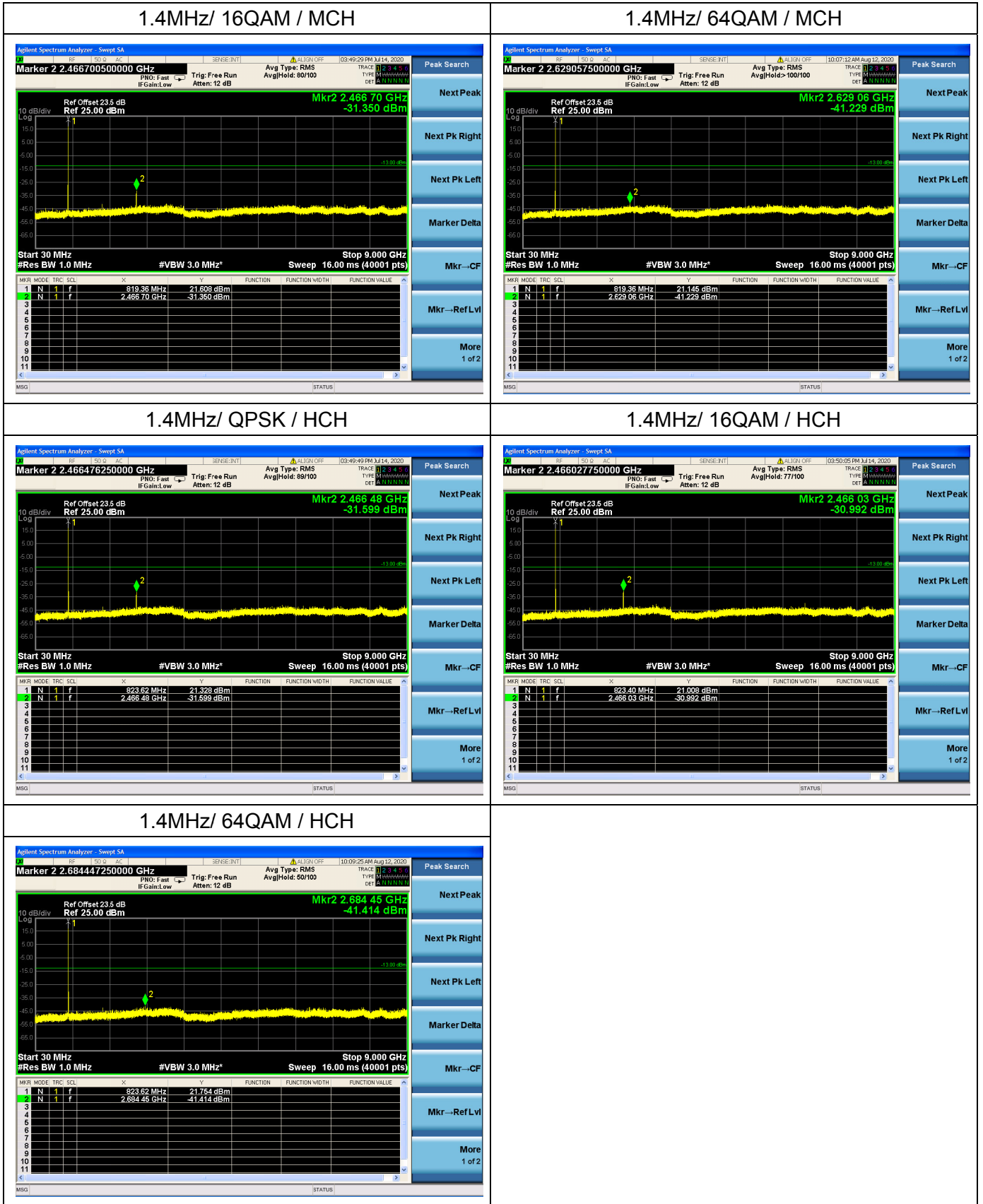


1.4MHz/ 64QAM / LCH



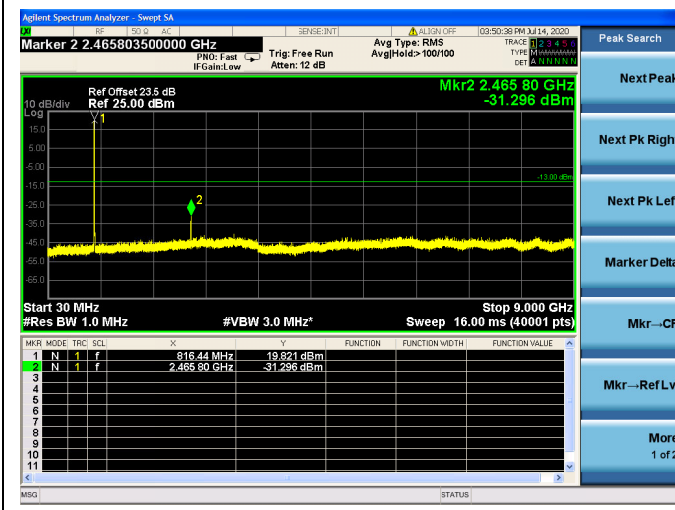
1.4MHz/QPSK / MCH



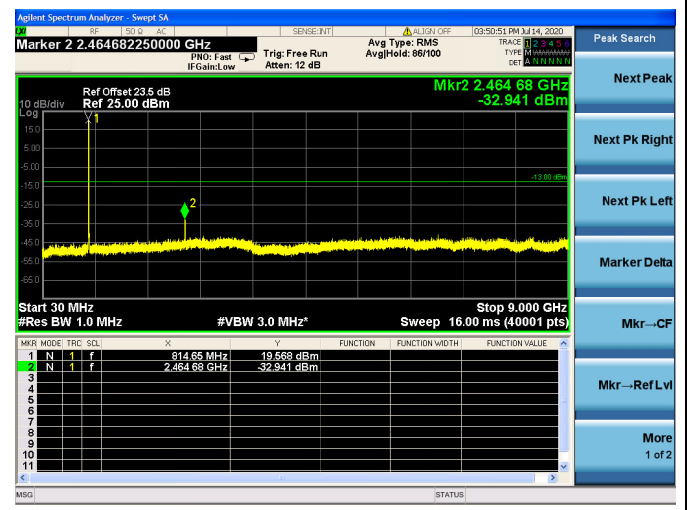




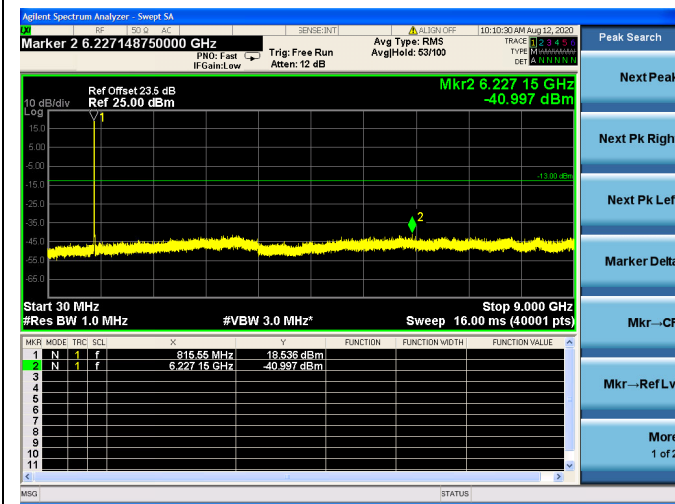
3MHz/QPSK / LCH



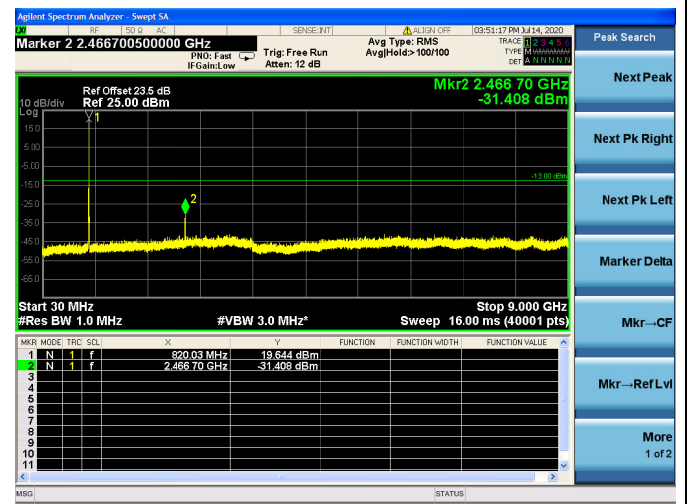
3MHz/16QAM / LCH



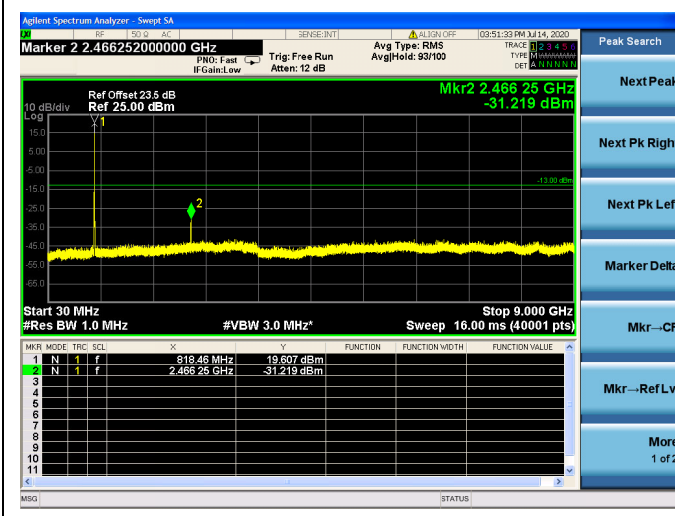
3MHz/ 64QAM / LCH



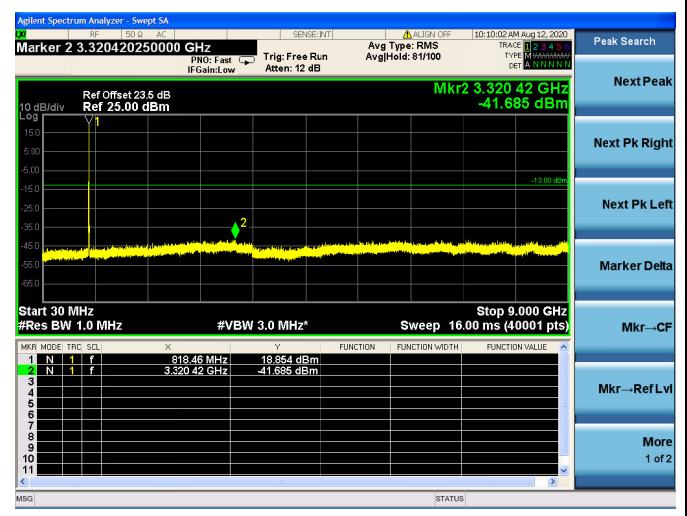
3MHz/QPSK / MCH



3MHz/ 16QAM / MCH

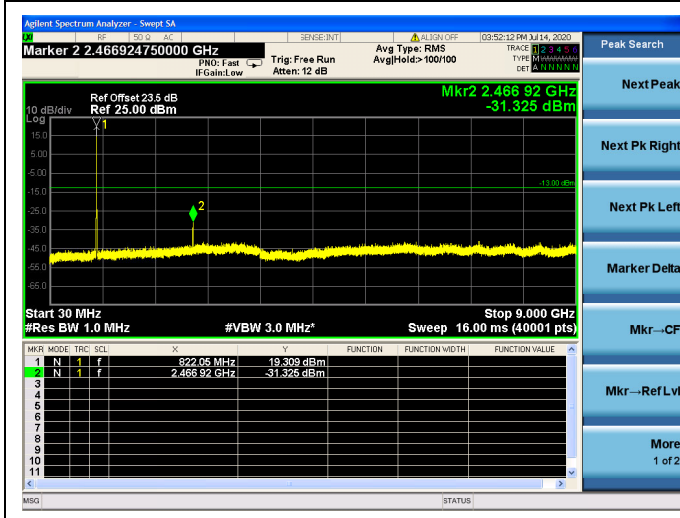


3MHz/ 64QAM / MCH

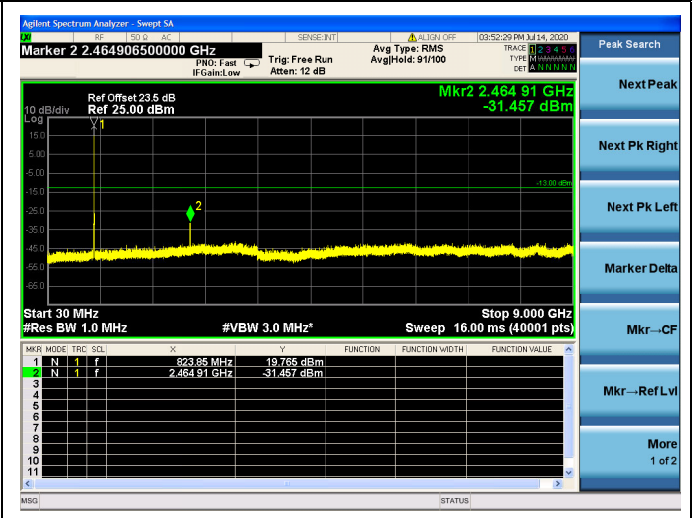




3MHz/ QPSK / HCH



3MHz/ 16QAM / HCH



3MHz/ 64QAM / HCH

