



**FCC CFR47 PART 22H, 24E, 27 AND 90S
CERTIFICATION TEST REPORT**

FOR

CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL NUMBERS: A1723, A1724

FCC ID: BCG-E3042A

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODELS: A1723, A1724

SERIAL NUMBER: C39QT02RH2JF (CONDUCTED); C39Q403AGR24 (RADIATED)

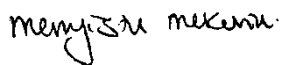
DATE TESTED: AUGUST 20, 2015 – JANUARY 14, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC CFR47 PART 22H, 24E, 27 and 90S	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

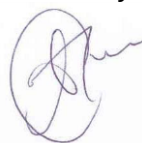
Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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Tested By:



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-D, FCC CFR 47 Part 2, FCC KDB 971168 D01 v02r02, Part 22, Part 24, Part 27 and Part 90.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☐ Chamber D
☐ Chamber B	☐ Chamber E
☐ Chamber C	☐ Chamber F
	☒ Chamber G
	☒ Chamber H

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.52 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.94 dB
Radiated Disturbance, 1 to 6 GHz	± 3.86 dB
Radiated Disturbance, 6 to 18 GHz	± 4.23 dB
Radiated Disturbance, 18 to 26 GHz	± 5.30 dB
Radiated Disturbance, 26 to 40 GHz	± 5.23 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT, Model A1723 and A1724 is a mobile phone with multimedia functions (music, application support, and video), cellular GSM/GPRS/EGPRS/CDMA/WCDMA/HSPA+/DC-HSDPA/LTE radio, IEEE 802.11a/b/g/n/ac radio, Bluetooth radio and NFC. The rechargeable battery is not user accessible.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted and ERP / EIRP output powers as follows:

5.2.1. LAT

OUTPUT POWER FOR LTE BAND 2

Part 24 / RSS 133 LTE Band 2						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1910	QPSK	22.0	158.5	24.71	295.8
		16QAM	21.2	131.8	23.81	240.4
3		QPSK	21.8	151.4	24.59	287.7
		16QAM	21.1	128.8	23.64	231.2
5		QPSK	21.8	151.4	24.48	280.5
		16QAM	21.1	128.8	23.55	226.5
10		QPSK	21.8	151.4	24.68	293.8
		16QAM	21.2	131.8	23.73	236.0
15		QPSK	21.9	154.9	24.51	282.5
		16QAM	21.0	125.9	23.57	227.5
20		QPSK	22.0	158.5	24.61	289.1
		16QAM	21.2	131.8	23.71	235.0

OUTPUT POWER FOR LTE BAND 4

Part 27 / RSS 139 LTE Band 4						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1710 - 1755	QPSK	22.9	195.0	24.06	254.7
		16QAM	22.0	158.5	23.25	211.3
3		QPSK	22.9	195.0	24.05	254.1
		16QAM	22.0	158.5	23.18	208.0
5		QPSK	22.9	195.0	24.25	266.1
		16QAM	22.0	158.5	23.29	213.3
10		QPSK	22.9	195.0	24.17	261.2
		16QAM	22.0	158.5	23.25	211.3
15		QPSK	22.9	195.0	24.10	257.0
		16QAM	21.9	154.9	23.85	242.7
20		QPSK	23.0	199.5	24.03	252.9
		16QAM	22.1	162.2	23.25	211.3

OUTPUT POWER FOR LTE BAND 5

Part 22 /RSS 132 LTE Band 5						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
1.4	824 - 849	QPSK	24.0	251.2	20.73	118.30
		16QAM	23.2	208.9	19.63	91.83
3		QPSK	23.9	245.5	20.69	117.22
		16QAM	23.2	208.9	19.73	93.97
5		QPSK	24.0	251.2	20.73	118.30
		16QAM	23.1	204.2	19.73	93.97
10		QPSK	24.0	251.2	20.73	118.30
		16QAM	23.1	204.2	19.83	96.16

OUTPUT POWER FOR LTE BAND 7

PART 27 / RSS199 LTE Band 7						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Peak)		EIRP (Peak)	
			dBm	mW	dBm	mW
5	2500 - 2570	QPSK	26.9	489.8	30.61	1150.8
		16QAM	26.8	478.6	29.55	901.6
10		QPSK	27.2	524.8	30.42	1101.5
		16QAM	27.1	512.9	29.50	891.3
15		QPSK	27.4	549.5	30.42	1101.5
		16QAM	27.2	524.8	29.50	891.3
20		QPSK	27.3	537.0	30.58	1142.9
		16QAM	26.8	478.6	29.61	914.1

OUTPUT POWER FOR LTE BAND 12

Part 27 /RSS 130 LTE Band 12						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	dBm
1.4	699-716	QPSK	24.0	251.2	18.13	65.01
		16QAM	23.2	208.9	17.23	52.84
3		QPSK	23.9	245.5	18.27	67.14
		16QAM	23.2	208.9	17.37	54.58
5		QPSK	24.0	251.2	18.17	65.61
		16QAM	23.1	204.2	17.30	53.70
10		QPSK	23.9	245.5	18.37	68.71
		16QAM	23.2	208.9	17.40	54.95

OUTPUT POWER FOR LTE BAND 17

Part 27 /RSS 130 LTE Band 17						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	704-716	QPSK	23.8	239.9	18.40	69.2
		16QAM	23.0	199.5	17.50	56.2
10		QPSK	23.8	239.9	18.47	70.3
		16QAM	22.7	186.2	17.60	57.5

OUTPUT POWER FOR LTE BAND 25

Part 24 / RSS 133 LTE Band 25						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1915	QPSK	22.0	158.5	24.48	280.5
		16QAM	21.2	131.8	23.52	224.9
3		QPSK	21.9	154.9	24.42	276.7
		16QAM	21.2	131.8	23.32	214.8
5		QPSK	21.9	154.9	24.46	279.3
		16QAM	21.1	128.8	23.33	215.3
10		QPSK	21.8	151.4	24.54	284.4
		16QAM	21.1	128.8	23.46	221.8
15		QPSK	21.9	154.9	24.48	280.5
		16QAM	21.0	125.9	23.35	216.3
20		QPSK	22.0	158.5	24.44	278.0
		16QAM	21.2	131.8	23.32	214.8

OUTPUT POWER FOR LTE BAND 26

Part 90 LTE Band 26								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	814-824	QPSK	24.0	251.2	20.23	105.4	22.38	173.0
		16QAM	23.1	204.2	19.38	86.7	21.53	142.2
3		QPSK	23.8	239.9	20.25	105.9	22.40	173.8
		16QAM	23.1	204.2	19.42	87.5	21.57	143.5
5		QPSK	23.9	245.5	20.24	105.7	22.39	173.4
		16QAM	23.0	199.5	19.23	83.8	21.38	137.4
10		QPSK	23.9	245.5	20.26	106.2	22.41	174.2
		16QAM	23.1	204.2	19.29	84.9	21.44	139.3

OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Peak)		EIRP (Peak)	
			dBm	mW	dBm	mW
5	2496-2690	QPSK	27.5	562.3	29.34	859.0
		16QAM	26.9	489.8	28.32	679.2
10		QPSK	27.7	588.8	29.14	820.4
		16QAM	27.2	524.8	28.13	650.1
15		QPSK	28.1	645.7	29.24	839.5
		16QAM	27.5	562.3	28.30	676.1
20		QPSK	27.9	616.6	29.50	891.3
		16QAM	27.5	562.3	28.57	719.4

5.2.2. UAT

OUTPUT POWER FOR LTE BAND 2

Part 24 / RSS 133 LTE Band 2						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1910	QPSK	22.4	173.8	19.67	92.7
		16QAM	21.5	141.3	18.74	74.8
3		QPSK	22.3	169.8	19.76	94.6
		16QAM	21.4	138.0	18.89	77.4
5		QPSK	22.3	169.8	19.30	85.1
		16QAM	21.3	134.9	18.44	69.8
10		QPSK	22.4	173.8	19.37	86.5
		16QAM	21.5	141.3	18.34	68.2
15		QPSK	22.4	173.8	19.28	84.7
		16QAM	21.4	138.0	18.33	68.1
20		QPSK	22.5	177.8	19.25	84.1
		16QAM	21.6	144.5	18.31	67.8

OUTPUT POWER FOR LTE BAND 4

Part 27 / RSS 139 LTE Band 4						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1710 - 1755	QPSK	23.3	213.8	18.22	66.4
		16QAM	22.4	173.8	17.20	52.5
3		QPSK	23.2	208.9	18.32	67.9
		16QAM	22.4	173.8	17.38	54.7
5		QPSK	23.3	213.8	18.43	69.7
		16QAM	22.3	169.8	17.53	56.6
10		QPSK	23.2	208.9	18.28	67.3
		16QAM	22.4	173.8	17.34	54.2
15		QPSK	23.3	213.8	18.48	70.5
		16QAM	22.3	169.8	17.54	56.8
20		QPSK	23.4	218.8	18.59	72.3
		16QAM	22.5	177.8	17.64	58.1

OUTPUT POWER FOR LTE BAND 5

Part 22 /RSS 130 LTE Band 5						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
1.4	824 - 849	QPSK	23.7	234.4	16.66	46.34
		16QAM	23.0	199.5	15.95	39.36
3		QPSK	23.6	229.1	16.84	48.31
		16QAM	23.0	199.5	16.23	41.98
5		QPSK	23.7	234.4	16.61	45.81
		16QAM	22.8	190.5	15.73	37.41
10		QPSK	23.6	229.1	16.56	45.29
		16QAM	22.9	195.0	16.08	40.55

OUTPUT POWER FOR LTE BAND 7

PART 27 / RSS199 LTE Band 7						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Peak)		EIRP (Peak)	
			dBm	mW	dBm	mW
5	2500 - 2570	QPSK	23.8	239.9	24.51	282.5
		16QAM	23.7	234.4	23.14	206.1
10		QPSK	23.8	239.9	24.71	295.8
		16QAM	23.8	239.9	24.13	258.8
15		QPSK	24.0	251.2	24.80	302.0
		16QAM	23.9	245.5	23.88	244.3
20		QPSK	23.9	245.5	24.77	299.9
		16QAM	23.5	223.9	23.80	239.9

OUTPUT POWER FOR LTE BAND 12

Part 27 /RSS 130 LTE Band 12						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	dBm
1.4	699-716	QPSK	23.7	234.4	16.09	40.64
		16QAM	23.0	199.5	15.12	32.51
3		QPSK	23.6	229.1	16.40	43.65
		16QAM	22.9	195.0	15.47	35.24
5		QPSK	23.6	229.1	16.04	40.18
		16QAM	22.8	190.5	14.97	31.41
10		QPSK	23.6	229.1	16.09	40.64
		16OAM	22.8	190.5	15.20	33.11

OUTPUT POWER FOR LTE BAND 17

Part 27 /RSS 130 LTE Band 17						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	704-716	QPSK	23.6	229.1	16.80	47.9
		16QAM	22.7	186.2	15.40	34.7
10		QPSK	23.5	223.9	16.68	46.6
		16QAM	22.8	190.5	15.66	36.8

OUTPUT POWER FOR LTE BAND 25

Part 24 / RSS 133 LTE Band 25						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1915	QPSK	21.8	151.4	20.03	100.7
		16QAM	21.1	128.8	19.30	85.1
3		QPSK	21.7	147.9	20.13	103.0
		16QAM	21.0	125.9	19.45	88.1
5		QPSK	21.7	147.9	20.07	101.6
		16QAM	20.9	123.0	19.16	82.4
10		QPSK	21.7	147.9	19.66	92.5
		16QAM	20.9	123.0	19.13	81.8
15		QPSK	21.8	151.4	19.70	93.3
		16QAM	20.8	120.2	19.20	83.2
20		QPSK	21.9	154.9	20.00	100.0
		16QAM	21.1	128.8	19.10	81.3

OUTPUT POWER FOR LTE BAND 26

Part 90 LTE Band 26								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	814-824	QPSK	23.70	234.4	17.36	54.5	19.51	89.3
		16QAM	22.80	190.5	16.54	45.1	18.69	74.0
3		QPSK	23.50	223.9	17.34	54.2	19.49	88.9
		16QAM	22.80	190.5	16.45	44.2	18.60	72.4
5		QPSK	23.60	229.1	17.36	54.5	19.51	89.3
		16QAM	22.70	186.2	16.42	43.9	18.57	71.9
10		QPSK	23.50	223.9	17.19	52.4	19.34	85.9
		16QAM	22.70	186.2	16.33	43.0	18.48	70.5

OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Peak)		EIRP (Peak)	
			dBm	mW	dBm	mW
5	2496-2690	QPSK	26.8	478.6	25.58	361.4
		16QAM	26.4	436.5	24.64	291.1
10		QPSK	27.1	512.9	25.86	385.5
		16QAM	26.7	467.7	24.71	295.8
15		QPSK	27.5	562.3	25.43	349.1
		16QAM	27.2	524.8	24.42	276.7
20		QPSK	27.2	524.8	25.75	375.8
		16QAM	27.2	524.8	24.85	305.5

5.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 13E180, Baseband 4.70.10.

The EUT is linked with Agilent 8960, and CMW500 Communication Test Sets.

5.4. MAXIMUM ANTENNA GAIN

Please see table below:

LTE BANDS	Port A (LAT) Antenna Gain (dBi)	Port B (UAT) Antenna Gain (dBi)
LTE Band 2, 1850 – 1910 MHz	1.08	-3.08
LTE Band 4, 1710 – 1755 MHz	0.51	-4.68
LTE Band 5, 824 – 849 MHz	-1.77	-5.27
LTE Band 7, 2500 – 2570 MHz	-0.32	-2.45
LTE Band 12, 699 – 716 MHz	-4.35	-6.80
LTE Band 17, 704 – 716 MHz	-4.35	-6.80
LTE Band 25, 1850 – 1915 MHz	1.08	-3.08
LTE Band 26, 814 – 824 MHz	-3.01	-6.55
LTE Band 41, 2496 – 2690 MHz	0.10	-2.45

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 17, Band 25, Band 26, and Band 41.

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

The fundamental of the EUT was investigated in three orthogonal orientations X/Y/Z, it was determined that X orientation was worst-case orientation for cell bands without AC/DC adapter and headset; X orientation was worst-case orientation for pcs bands without AC/DC adapter and headset; X orientation was worst orientation for Band 41 and Band 7 without AC/DC adapter and headset.

For simultaneous transmission of multiple channels from the same antenna in the 2.4GHz, 5GHz and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

5.6. DESCRIPTION OF TEST SETUP

TESTS SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
Laptop	Dell	Latitude D630	N/A
Laptop AC Adapter	Dell	PA-1900-02D	N/A
DC power supply	Sorensen	XT 15-4	N/A

I/O CABLES (RF CONDUCTED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	1.4m	N/A
3	RF In/Out	1	EUT	Un-shielded	0.4m	N/A
4	RF In/Out	1	Barrel	N/A	N/A	N/A
5	RF In/Out	1	Communication Test Set	Un-shielded	1m	N/A

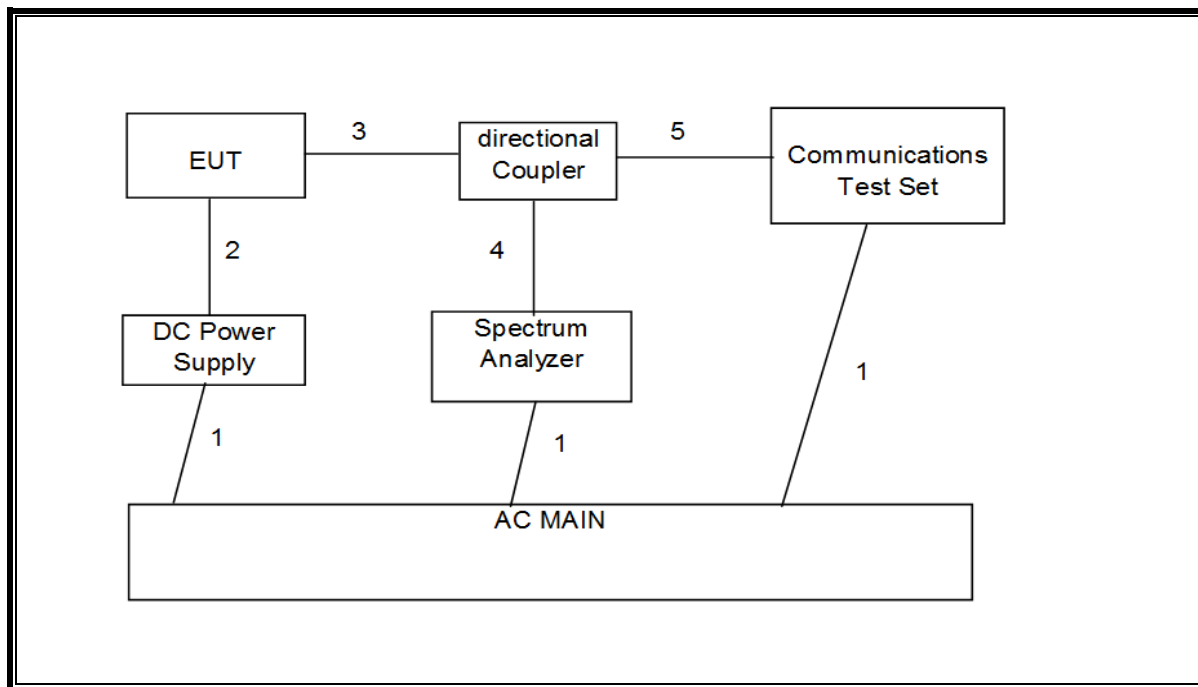
I/O CABLES (RF RADIATED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5m	NA

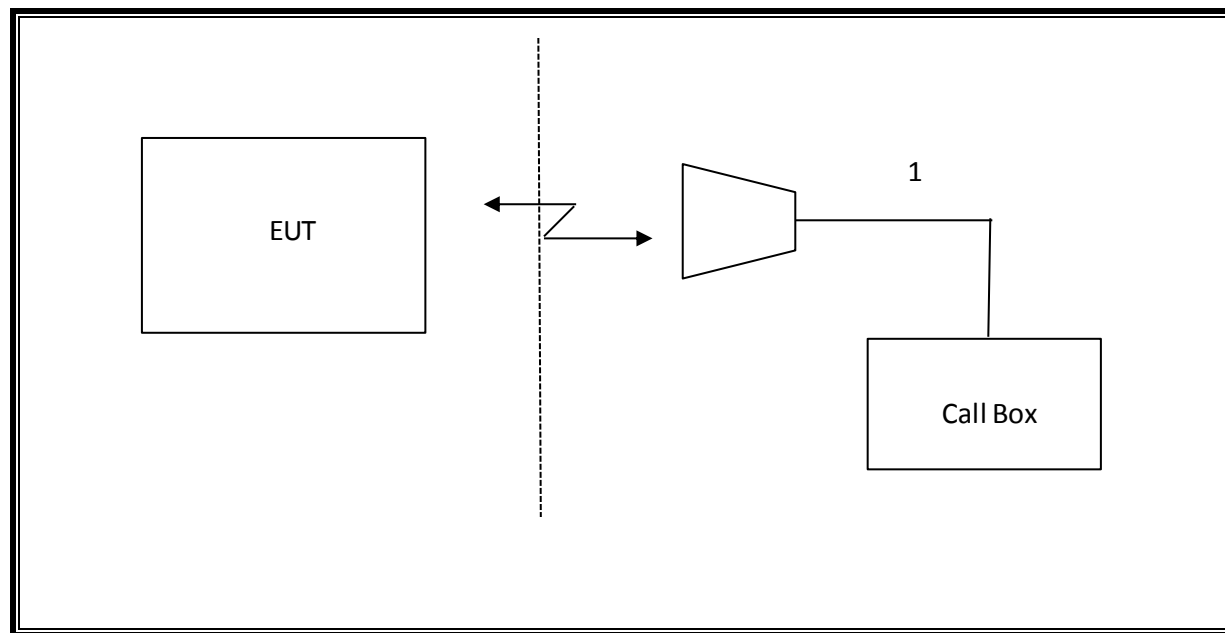
TEST SETUP

SETUP DIAGRAM FOR TESTS

CONDUCTED SETUP



RADIATED SETUP



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	T No.	Cal Due
Spectrum Analyzer, PSA, 3Hz to 44GHz	Keysight	E4446A	T177	03/07/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T971	07/23/16
Directional Coupler, 10dB SMA, 0.5GHz to 26.5GHz	Krytar	152610	T922	06/10/16
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T754	03/21/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T703	02/11/16
Wireless Communications Test Set, 8960 Series 10	Keysight	E5515C	T211	11/19/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T905	05/26/16
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T862	04/10/16
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T899	04/30/16
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T834	06/08/16
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T491	04/25/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T260	07/10/16
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T900	04/10/16
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T863	04/10/16
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T835	06/09/16
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T495	10/22/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T906	06/11/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T259	10/23/16
Power Meter, P-series single channel	Keysight	N1911A	T1255	06/08/16
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	T1226	05/06/16
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826	T447	05/12/16
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Agilent	8449B	T404	06/29/16
Spectrum Analyzer, 40 GHz	Agilent	8564E	T106	08/06/16
Tuned Dipole, 400 - 1000MHz	ETS Lindgren	3121C DB4	T273	05/05/16
Antenna, Horn 1-18GHz	Emco	3115	T59	11/18/16
Filter, Highpass 4.0GHz	Micro-Tronics	HPM13351	T1239	06/24/16
Filter, HPF 1.2GHz	Wainwright Instruments	WHKX1.2/15G-6ST	T1182	04/24/16
Filter, HPF 3.0GHz	Micro-Tronics	HPM17543	T897	06/16/16

7. RF POWER OUTPUT VERIFICATION

LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

7.1. LAT

7.1.1. LTE BAND 2

OUTPUT POWER FOR LTE BAND 2 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	18607	1850.7	QPSK	1	0	21.9	26.7
				1	2	21.8	26.5
				1	5	21.9	26.8
				3	0	21.9	27.0
				3	1	21.9	26.8
				3	2	21.9	26.8
				6	0	21.0	26.2
			16QAM	1	0	21.1	26.6
				1	2	21.0	26.5
				1	5	21.0	26.6
				3	0	20.8	26.8
				3	1	20.8	26.7
				3	2	20.8	26.7
				6	0	20.1	26.3
1.4	18900	1880.0	QPSK	1	0	22.0	26.7
				1	2	21.9	26.5
				1	5	21.9	26.7
				3	0	22.0	26.9
				3	1	22.0	26.9
				3	2	22.0	26.9
				6	0	21.0	27.0
			16QAM	1	0	21.2	26.8
				1	2	21.1	26.6
				1	5	21.2	26.8
				3	0	21.1	27.0
				3	1	21.1	27.0
				3	2	21.1	27.0
				6	0	20.1	27.1
1.4	19193	1909.3	QPSK	1	0	21.8	25.8
				1	2	21.7	25.8
				1	5	21.7	25.8
				3	0	21.8	26.1
				3	1	21.8	26.1
				3	2	21.8	26.0
				6	0	20.9	26.2
			16QAM	1	0	21.0	25.9
				1	2	20.9	25.8
				1	5	21.0	25.9
				3	0	20.9	26.1
				3	1	20.9	26.1
				3	2	20.9	26.1
				6	0	19.9	26.1

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	18615	1851.5	QPSK	1	0	21.8	26.5
				1	7	21.7	26.3
				1	14	21.7	26.6
				8	0	21.0	26.2
				8	4	20.9	26.0
				8	7	20.9	26.2
				15	0	20.9	27.0
			16QAM	1	0	21.1	26.7
				1	7	21.0	26.5
				1	14	21.0	26.7
				8	0	20.0	26.0
				8	4	20.0	26.0
				8	7	20.0	26.0
				15	0	19.9	26.5
			QPSK	1	0	21.8	26.5
				1	7	21.7	26.3
				1	14	21.8	26.6
				8	0	21.0	26.3
				8	4	20.9	26.1
				8	7	21.0	26.3
				15	0	20.9	26.7
3.0	18900	1880.0	16QAM	1	0	21.1	26.6
				1	7	21.0	26.4
				1	14	21.1	26.5
				8	0	20.0	26.0
				8	4	20.0	25.9
				8	7	20.0	26.0
				15	0	20.0	26.8
			QPSK	1	0	21.8	25.9
				1	7	21.7	25.8
				1	14	21.7	25.9
				8	0	20.9	26.0
				8	4	20.9	26.0
				8	7	20.8	26.0
				15	0	20.8	26.3
3.0	19185	1908.5	16QAM	1	0	21.0	25.9
				1	7	21.0	25.9
				1	14	21.0	26.0
				8	0	20.0	25.9
				8	4	19.9	26.0
				8	7	19.9	26.0
			QPSK	15	0	19.9	26.3
				1	0	21.8	25.9
				1	7	21.7	25.8
				1	14	21.7	25.9
				8	0	20.9	26.0
				8	4	20.9	26.0

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak(dBm)
				Size	Offset		
5.0	18625	1852.5	QPSK	1	0	21.8	26.6
				1	12	21.7	26.3
				1	24	21.7	26.6
				12	0	21.0	26.2
				12	6	21.0	26.1
				12	11	20.9	26.0
				25	0	20.9	26.7
			16QAM	1	0	21.1	26.4
				1	12	21.0	26.3
				1	24	21.1	26.5
				12	0	19.8	26.0
				12	6	19.8	25.9
				12	11	19.7	26.0
				25	0	19.9	26.6
5.0	18900	1880.0	QPSK	1	0	21.7	26.5
				1	12	21.8	26.3
				1	24	21.7	25.4
				12	0	20.9	26.0
				12	6	20.9	25.9
				12	11	21.0	26.0
				25	0	20.9	26.5
			16QAM	1	0	21.0	26.3
				1	12	21.0	25.9
				1	24	20.9	25.4
				12	0	19.8	25.9
				12	6	19.8	25.9
				12	11	19.8	25.9
				25	0	19.9	26.2
5.0	19175	1907.5	QPSK	1	0	21.8	25.5
				1	12	21.7	25.8
				1	24	21.7	25.9
				12	0	20.9	25.7
				12	6	20.9	25.9
				12	11	20.9	25.9
				25	0	20.9	26.2
			16QAM	1	0	21.0	25.5
				1	12	20.9	25.8
				1	24	21.0	26.0
				12	0	19.8	25.8
				12	6	19.7	25.9
				12	11	19.7	26.0
				25	0	19.9	26.1

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	18650	1855.0	QPSK	1	0	21.8	26.5
				1	24	21.8	26.5
				1	49	21.8	25.7
				25	0	21.0	26.2
				25	12	21.0	26.2
				25	24	21.0	26.5
				50	0	21.0	27.0
			16QAM	1	0	21.2	26.7
				1	24	21.1	26.7
				1	49	21.0	25.8
				25	0	20.0	26.2
				25	12	20.1	26.2
				25	24	20.1	26.4
				50	0	20.0	26.9
10.0	18900	1880.0	QPSK	1	0	21.8	26.4
				1	24	21.8	26.4
				1	49	21.7	25.7
				25	0	20.9	26.2
				25	12	21.0	26.1
				25	24	21.0	26.3
				50	0	21.0	27.2
			16QAM	1	0	21.1	26.5
				1	24	21.0	26.5
				1	49	21.0	25.8
				25	0	20.1	26.1
				25	12	20.1	26.0
				25	24	20.1	26.2
				50	0	19.9	26.7
10.0	19150	1905.0	QPSK	1	0	21.8	26.6
				1	24	21.7	25.4
				1	49	21.7	26.0
				25	0	21.0	26.3
				25	12	21.0	26.2
				25	24	20.9	25.8
				50	0	21.0	27.0
			16QAM	1	0	21.1	26.6
				1	24	21.0	26.1
				1	49	20.9	26.0
				25	0	20.1	26.3
				25	12	20.1	26.3
				25	24	20.0	25.9
				50	0	19.9	26.8

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	18675	1857.5	QPSK	1	0	21.9	26.6
				1	37	21.8	26.7
				1	74	21.8	25.9
				36	0	21.1	26.4
				36	16	21.0	26.3
				36	35	21.1	26.4
				75	0	21.0	26.8
			16-QAM	1	0	21.0	26.6
				1	37	21.0	26.6
				1	74	21.0	26.0
				36	0	20.1	26.4
				36	16	20.0	26.2
				36	35	20.0	26.3
				75	0	20.1	26.8
15.0	18900	1880.0	QPSK	1	0	21.9	26.4
				1	37	21.9	26.4
				1	74	21.8	25.9
				36	0	21.1	26.3
				36	16	21.1	26.2
				36	35	21.0	26.3
				75	0	21.1	27.0
			16-QAM	1	0	20.9	26.6
				1	37	20.9	26.6
				1	74	20.8	25.9
				36	0	20.0	26.1
				36	16	20.0	26.0
				36	35	20.0	26.2
				75	0	20.1	26.8
15.0	19125	1902.5	QPSK	1	0	21.9	26.0
				1	37	21.9	26.4
				1	74	21.8	25.9
				36	0	21.1	26.6
				36	16	21.0	26.3
				36	35	21.0	26.3
				75	0	21.1	27.1
			16-QAM	1	0	21.0	26.0
				1	37	21.0	26.7
				1	74	20.8	25.9
				36	0	20.1	26.4
				36	16	20.0	26.2
				36	35	20.0	26.2
				75	0	20.1	26.9

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	18700	1860.0	QPSK	1	0	22.0	26.9
				1	49	22.0	25.8
				1	99	22.0	26.9
				50	0	21.1	26.6
				50	24	21.1	26.5
				50	49	21.1	26.6
				100	0	21.0	26.5
			16-QAM	1	0	21.2	26.6
				1	49	21.1	25.8
				1	99	21.1	25.6
				50	0	20.0	26.4
				50	24	20.1	26.4
				50	49	20.0	26.6
				100	0	20.1	26.9
20.0	18900	1880.0	QPSK	1	0	22.0	26.9
				1	49	22.0	26.7
				1	99	22.0	26.1
				50	0	21.1	26.5
				50	24	21.1	26.4
				50	49	21.0	26.5
				100	0	21.1	27.2
			16-QAM	1	0	21.1	25.3
				1	49	21.1	25.8
				1	99	21.1	26.1
				50	0	20.1	26.3
				50	24	20.0	26.2
				50	49	20.0	26.4
				100	0	20.2	27.1
20.0	19100	1900.0	QPSK	1	0	22.0	26.3
				1	49	22.0	26.8
				1	99	21.9	27.0
				50	0	21.1	26.7
				50	24	21.1	26.6
				50	49	21.1	26.6
				100	0	21.1	27.5
			16-QAM	1	0	21.1	26.3
				1	49	21.2	25.8
				1	99	21.0	25.8
				50	0	20.0	26.1
				50	24	20.0	26.4
				50	49	19.9	26.4
				100	0	20.1	26.7

7.1.2. LTE BAND 4

OUTPUT POWER FOR LTE BAND 4 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	19957	1710.7	QPSK	1	0	22.7	27.1
				1	2	22.6	26.3
				1	5	22.7	27.3
				3	0	22.7	27.6
				3	1	22.7	27.5
				3	2	22.7	27.5
			16QAM	6	0	21.8	27.2
				1	0	21.9	26.9
				1	2	21.8	26.6
				1	5	21.9	27.2
				3	0	21.8	27.6
				3	1	21.8	27.6
				3	2	21.8	27.6
				6	0	20.8	26.8
1.4	20175	1732.5	QPSK	1	0	22.9	26.6
				1	2	22.8	26.5
				1	5	22.8	26.6
				3	0	22.8	26.9
				3	1	22.8	26.8
				3	2	22.9	26.8
			16QAM	6	0	21.9	27.0
				1	0	22.0	26.6
				1	2	22.0	26.5
				1	5	22.0	26.6
				3	0	21.9	26.8
				3	1	21.9	26.7
				3	2	21.9	26.8
				6	0	20.9	26.9
1.4	20393	1754.3	QPSK	1	0	22.7	26.6
				1	2	22.5	26.5
				1	5	22.6	26.6
				3	0	22.7	26.8
				3	1	22.6	26.8
				3	2	22.6	26.7
			16QAM	6	0	21.7	26.9
				1	0	21.7	26.6
				1	2	21.6	26.5
				1	5	21.7	26.6
				3	0	21.6	26.7
				3	1	21.7	26.6
				3	2	21.7	26.7
				6	0	20.8	26.8

OUTPUT POWER FOR LTE BAND 4 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	19965	1711.5	QPSK	1	0	22.6	26.2
				1	7	22.6	26.7
				1	14	22.7	27.3
				8	0	21.7	26.9
				8	4	21.8	26.8
				8	7	21.8	27.0
				15	0	21.8	27.4
			16QAM	1	0	21.9	26.6
				1	7	21.8	26.4
				1	14	22.0	27.3
				8	0	20.9	26.8
				8	4	20.9	26.6
				8	7	20.9	26.8
				15	0	20.8	27.4
3.0	20175	1732.5	QPSK	1	0	22.9	26.7
				1	7	22.8	26.6
				1	14	22.8	26.7
				8	0	21.9	26.8
				8	4	21.9	26.8
				8	7	21.9	26.8
				15	0	22.0	27.1
			16QAM	1	0	22.0	26.7
				1	7	22.0	26.6
				1	14	22.0	26.8
				8	0	21.0	26.8
				8	4	21.0	26.7
				8	7	21.0	26.8
				15	0	20.9	27.1
3.0	20385	1753.5	QPSK	1	0	22.7	26.8
				1	7	22.6	26.6
				1	14	22.7	26.6
				8	0	21.8	26.7
				8	4	21.8	26.6
				8	7	21.8	26.7
				15	0	21.7	27.2
			16QAM	1	0	21.6	26.8
				1	7	21.6	26.7
				1	14	21.6	26.7
				8	0	20.8	26.4
				8	4	20.7	26.3
				8	7	20.7	26.4
				15	0	20.7	26.9

OUTPUT POWER FOR LTE BAND 4 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	19975	1712.5	QPSK	1	0	22.6	26.3
				1	12	22.5	27.0
				1	24	22.6	27.3
				12	0	21.8	26.7
				12	6	21.8	26.7
				12	11	21.7	26.7
				25	0	21.7	27.3
			16QAM	1	0	21.8	26.0
				1	12	21.8	26.2
				1	24	21.9	26.5
				12	0	20.6	26.7
				12	6	20.6	26.5
				12	11	20.6	26.6
				25	0	20.7	27.1
5.0	20175	1732.5	QPSK	1	0	22.9	26.6
				1	12	22.8	26.5
				1	24	22.8	26.7
				12	0	22.0	26.7
				12	6	21.9	26.7
				12	11	21.9	26.7
				25	0	21.9	27.1
			16QAM	1	0	22.0	26.6
				1	12	21.9	26.6
				1	24	22.0	26.7
				12	0	20.7	26.7
				12	6	20.7	26.6
				12	11	20.7	26.7
				25	0	20.9	26.9
5.0	20375	1752.5	QPSK	1	0	22.7	26.8
				1	12	22.6	26.6
				1	24	22.6	26.6
				12	0	21.8	26.8
				12	6	21.7	26.6
				12	11	21.7	26.6
				25	0	21.7	27.0
			16QAM	1	0	21.5	26.9
				1	12	21.5	26.7
				1	24	21.5	26.6
				12	0	20.8	26.7
				12	6	20.7	26.5
				12	11	20.7	26.5
				25	0	20.7	27.1

OUTPUT POWER FOR LTE BAND 4 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20000	1715.0	QPSK	1	0	22.7	26.4
				1	24	22.7	27.2
				1	49	22.7	27.4
				25	0	21.8	26.9
				25	12	21.8	26.9
				25	24	21.9	27.1
				50	0	21.8	27.9
			16QAM	1	0	21.9	26.5
				1	24	21.9	27.1
				1	49	22.0	27.5
				25	0	20.9	26.9
				25	12	20.9	26.8
				25	24	21.0	27.0
				50	0	20.8	27.5
10.0	20175	1732.5	QPSK	1	0	22.9	26.5
				1	24	22.8	26.6
				1	49	22.8	26.9
				25	0	22.0	26.6
				25	12	21.9	26.7
				25	24	21.9	26.8
				50	0	21.9	27.2
			16QAM	1	0	22.0	26.5
				1	24	22.0	26.6
				1	49	22.0	26.9
				25	0	21.0	26.7
				25	12	21.0	26.6
				25	24	21.0	26.7
				50	0	20.9	27.0
10.0	20350	1750.0	QPSK	1	0	22.6	27.0
				1	24	22.6	26.7
				1	49	22.6	26.6
				25	0	21.8	26.8
				25	12	21.7	26.8
				25	24	21.8	26.7
				50	0	21.7	26.8
			16QAM	1	0	21.6	27.0
				1	24	21.5	26.7
				1	49	21.5	26.7
				25	0	20.8	26.8
				25	12	20.7	26.6
				25	24	20.7	26.6
				50	0	20.7	26.9

OUTPUT POWER FOR LTE BAND 4 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20025	1717.5	QPSK	1	0	22.8	27.2
				1	37	22.9	27.3
				1	74	22.8	27.3
				36	0	21.8	27.0
				36	16	21.8	26.9
				36	35	22.0	27.1
				75	0	22.0	27.8
			16-QAM	1	0	21.8	27.3
				1	37	21.9	27.5
				1	74	21.9	27.6
				36	0	20.9	26.9
				36	16	20.8	26.7
				36	35	20.9	26.9
				75	0	20.9	27.6
15.0	20175	1732.5	QPSK	1	0	22.9	26.8
				1	37	22.9	26.6
				1	74	22.8	26.8
				36	0	22.1	26.6
				36	16	22.0	26.6
				36	35	21.9	26.8
				75	0	22.0	27.1
			16-QAM	1	0	21.8	26.5
				1	37	21.9	26.6
				1	74	21.8	26.8
				36	0	21.0	26.6
				36	16	21.0	26.6
				36	35	20.9	26.7
				75	0	20.9	27.0
15.0	20325	1747.5	QPSK	1	0	22.8	26.9
				1	37	22.7	26.8
				1	74	22.6	26.5
				36	0	21.9	26.9
				36	16	21.8	26.8
				36	35	21.8	26.7
				75	0	21.9	27.2
			16-QAM	1	0	21.7	26.9
				1	37	21.5	26.9
				1	74	21.5	26.6
				36	0	20.8	26.9
				36	16	20.8	26.8
				36	35	20.8	26.7
				75	0	20.8	27.1

OUTPUT POWER FOR LTE BAND 4 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20050	1720.0	QPSK	1	0	22.9	27.6
				1	49	22.9	27.6
				1	99	23.0	27.8
				50	0	21.9	27.2
				50	24	21.9	27.1
				50	49	22.0	27.3
				100	0	21.9	27.8
			16-QAM	1	0	22.0	26.4
				1	49	22.0	26.2
				1	99	22.0	26.4
				50	0	20.8	27.0
				50	24	20.8	26.9
				50	49	20.9	27.1
				100	0	21.0	27.3
20.0	20175	1732.5	QPSK	1	0	23.0	27.8
				1	49	23.0	26.6
				1	99	22.9	26.8
				50	0	22.1	27.4
				50	24	22.0	26.7
				50	49	21.9	26.8
				100	0	22.0	26.8
			16-QAM	1	0	22.1	26.6
				1	49	22.1	26.6
				1	99	22.0	26.8
				50	0	21.0	26.8
				50	24	20.9	26.6
				50	49	20.8	26.7
				100	0	21.0	26.9
20.0	20300	1745.0	QPSK	1	0	23.0	26.7
				1	49	22.8	26.9
				1	99	22.7	26.5
				50	0	21.9	26.9
				50	24	21.8	26.8
				50	49	21.8	26.7
				100	0	21.9	26.8
			16-QAM	1	0	21.8	26.7
				1	49	21.6	26.9
				1	99	21.5	26.5
				50	0	20.9	26.8
				50	24	20.8	26.7
				50	49	20.8	26.7
				100	0	20.9	26.9

7.1.3. LTE BAND 5

OUTPUT POWER FOR LTE BAND 5 (1.4MHZz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	20407	824.7	QPSK	1	0	23.9	28.7
				1	2	23.9	28.5
				1	5	23.9	28.7
				3	0	24.0	28.9
				3	1	23.9	28.8
				3	2	23.9	28.8
			16QAM	6	0	23.0	28.9
				1	0	23.1	28.7
				1	2	23.1	28.6
				1	5	23.1	28.7
				3	0	23.1	28.7
				3	1	23.1	28.9
				3	2	23.1	28.7
				6	0	22.0	28.9
1.4	20525	836.5	QPSK	1	0	24.0	28.8
				1	2	23.9	28.6
				1	5	24.0	28.7
				3	0	23.9	28.6
				3	1	24.0	28.9
				3	2	24.0	28.9
			16QAM	6	0	22.9	28.1
				1	0	23.1	28.6
				1	2	23.0	28.4
				1	5	23.0	28.5
				3	0	22.8	28.9
				3	1	22.8	28.7
				3	2	22.8	28.7
				6	0	22.0	28.2
1.4	20643	848.3	QPSK	1	0	24.0	28.6
				1	2	23.9	28.2
				1	5	24.0	28.7
				3	0	24.0	29.0
				3	1	24.0	28.6
				3	2	24.0	28.7
			16QAM	6	0	23.0	29.0
				1	0	23.2	28.4
				1	2	23.1	28.3
				1	5	23.1	28.6
				3	0	23.1	28.9
				3	1	23.0	28.8
				3	2	23.0	28.8
				6	0	22.0	28.1

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	20415	825.5	QPSK	1	0	23.9	28.7
				1	7	23.8	28.2
				1	14	23.9	28.5
				8	0	22.9	28.1
				8	4	23.0	28.0
				8	7	22.9	28.2
				15	0	22.9	28.4
			16QAM	1	0	23.2	28.7
				1	7	23.1	28.4
				1	14	23.1	28.5
				8	0	22.0	28.0
				8	4	22.0	27.8
				8	7	22.0	28.0
				15	0	22.0	28.7
3.0	20525	836.5	QPSK	1	0	23.9	28.5
				1	7	23.8	28.5
				1	14	23.9	28.7
				8	0	23.0	28.1
				8	4	23.0	28.0
				8	7	22.9	28.1
				15	0	23.0	28.7
			16QAM	1	0	22.8	28.3
				1	7	22.7	28.1
				1	14	22.8	28.3
				8	0	22.0	27.7
				8	4	21.9	27.6
				8	7	22.0	27.6
				15	0	22.0	28.2
3.0	20635	847.5	QPSK	1	0	23.9	28.4
				1	7	23.9	28.2
				1	14	23.9	28.7
				8	0	23.0	28.0
				8	4	22.9	27.9
				8	7	23.0	28.0
				15	0	23.0	28.3
			16QAM	1	0	22.8	28.2
				1	7	22.7	28.0
				1	14	22.8	28.2
				8	0	22.0	27.7
				8	4	21.9	27.5
				8	7	21.9	27.7
				15	0	21.9	28.3

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20425	826.5	QPSK	1	0	24.0	28.4
				1	12	23.9	28.5
				1	24	24.0	28.7
				12	0	22.9	28.2
				12	6	23.0	28.1
				12	11	22.9	28.1
				25	0	22.9	28.8
			16QAM	1	0	22.7	28.4
				1	12	22.7	28.1
				1	24	22.8	28.4
				12	0	21.9	27.8
				12	6	21.9	27.8
				12	11	21.9	27.8
				25	0	21.9	28.2
5.0	20525	836.5	QPSK	1	0	23.9	28.8
				1	12	23.8	28.5
				1	24	23.9	28.6
				12	0	23.0	28.1
				12	6	22.9	27.9
				12	11	22.9	27.9
				25	0	22.9	28.4
			16QAM	1	0	23.1	28.4
				1	12	23.0	28.3
				1	24	23.0	28.4
				12	0	21.8	27.9
				12	6	21.7	27.7
				12	11	21.7	27.7
				25	0	21.9	28.3
5.0	20625	846.5	QPSK	1	0	23.9	28.6
				1	12	23.9	28.3
				1	24	23.9	28.7
				12	0	23.0	28.0
				12	6	23.0	27.9
				12	11	22.9	27.9
				25	0	23.0	28.5
			16QAM	1	0	23.1	28.4
				1	12	23.1	28.3
				1	24	23.1	28.2
				12	0	21.8	27.9
				12	6	21.7	27.7
				12	11	21.8	27.8
				25	0	21.9	28.5

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20450	829.0	QPSK	1	0	23.9	28.3
				1	24	23.9	28.4
				1	49	23.9	28.4
				25	0	23.0	28.0
				25	12	23.0	28.1
				25	24	23.0	28.2
				50	0	23.1	28.3
			16QAM	1	0	23.1	28.4
				1	24	23.1	28.5
				1	49	23.1	28.5
				25	0	22.0	28.0
				25	12	22.1	28.1
				25	24	22.0	28.1
				50	0	22.0	28.8
10.0	20525	836.5	QPSK	1	0	24.0	28.6
				1	24	23.9	28.6
				1	49	23.9	28.5
				25	0	23.0	28.2
				25	12	22.9	28.0
				25	24	22.9	28.0
				50	0	22.9	28.0
			16QAM	1	0	22.8	28.2
				1	24	22.7	28.2
				1	49	22.8	28.1
				25	0	21.9	27.9
				25	12	21.9	27.8
				25	24	21.8	27.7
				50	0	21.9	28.7
10.0	20600	844.0	QPSK	1	0	24.0	28.5
				1	24	23.9	28.6
				1	49	23.9	28.3
				25	0	23.0	28.1
				25	12	23.0	28.1
				25	24	23.0	28.1
				50	0	23.0	28.9
			16QAM	1	0	22.8	28.1
				1	24	22.7	28.2
				1	49	22.7	28.1
				25	0	21.9	27.8
				25	12	21.9	27.8
				25	24	21.9	27.8
				50	0	21.9	28.0

7.1.4. LTE BAND 7

OUTPUT POWER FOR LTE BAND 7 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20775	2502.5	QPSK	1	0	22.5	26.6
				1	12	22.5	26.2
				1	24	22.5	26.2
				12	0	21.5	26.5
				12	6	21.5	26.4
				12	11	21.4	26.4
				25	0	21.5	26.9
			16QAM	1	0	21.2	26.7
				1	12	21.2	26.4
				1	24	21.2	26.4
				12	0	20.5	26.4
				12	6	20.4	26.3
				12	11	20.4	26.4
				25	0	20.4	26.8
5.0	21100	2535.0	QPSK	1	0	22.1	26.8
				1	12	22.1	26.7
				1	24	22.1	26.9
				12	0	21.2	26.2
				12	6	21.2	26.2
				12	11	21.1	26.1
				25	0	21.1	26.7
			16QAM	1	0	21.2	25.8
				1	12	21.2	26.1
				1	24	21.2	25.4
				12	0	19.9	26.1
				12	6	19.9	26.0
				12	11	19.9	26.1
				25	0	20.1	26.6
5.0	21425	2567.5	QPSK	1	0	21.9	26.2
				1	12	21.8	26.0
				1	24	21.8	26.0
				12	0	21.0	26.0
				12	6	20.9	25.9
				12	11	20.9	25.9
				25	0	20.9	26.2
			16QAM	1	0	20.8	26.3
				1	12	20.7	26.0
				1	24	20.8	26.1
				12	0	20.1	26.0
				12	6	20.0	25.7
				12	11	20.0	25.9
				25	0	19.9	26.4

OUTPUT POWER FOR LTE BAND 7 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20800	2505.0	QPSK	1	0	22.4	26.9
				1	24	22.4	26.3
				1	49	22.3	26.8
				25	0	21.6	26.5
				25	12	21.5	26.4
				25	24	21.5	26.7
				50	0	21.5	27.2
			16QAM	1	0	21.6	27.0
				1	24	21.6	26.5
				1	49	21.5	26.9
				25	0	20.6	26.5
				25	12	20.5	26.4
				25	24	20.5	26.5
				50	0	20.5	27.1
10.0	21100	2535.0	QPSK	1	0	22.1	26.7
				1	24	22.1	26.8
				1	49	22.2	27.1
				25	0	21.2	26.3
				25	12	21.2	26.5
				25	24	21.2	26.4
				50	0	21.3	26.6
			16QAM	1	0	21.0	25.3
				1	24	21.0	25.3
				1	49	21.0	25.6
				25	0	20.1	26.1
				25	12	20.1	26.2
				25	24	20.2	26.3
				50	0	20.2	26.5
10.0	21400	2565.0	QPSK	1	0	22.0	26.3
				1	24	21.9	26.2
				1	49	21.9	26.1
				25	0	21.1	26.2
				25	12	21.1	26.2
				25	24	21.0	26.0
				50	0	21.0	26.1
			16QAM	1	0	20.9	26.4
				1	24	20.8	26.3
				1	49	20.7	26.2
				25	0	20.0	26.1
				25	12	20.1	26.0
				25	24	20.0	25.9
				50	0	20.0	26.2

OUTPUT POWER FOR LTE BAND 7 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20825	2507.5	QPSK	1	0	22.5	26.6
				1	37	22.3	26.8
				1	74	22.3	26.0
				36	0	21.6	26.5
				36	16	21.5	26.5
				36	35	21.6	26.7
				75	0	21.5	27.4
			16-QAM	1	0	21.3	26.7
				1	37	21.1	26.5
				1	74	21.2	26.1
				36	0	20.5	26.5
				36	16	20.5	26.4
				36	35	20.5	26.5
				75	0	20.5	27.0
15.0	21100	2535.0	QPSK	1	0	22.2	26.2
				1	37	22.2	26.6
				1	74	22.3	26.9
				36	0	21.3	26.5
				36	16	21.3	26.4
				36	35	21.3	26.6
				75	0	21.3	27.1
			16-QAM	1	0	21.0	25.7
				1	37	21.2	26.9
				1	74	21.2	27.2
				36	0	20.2	26.3
				36	16	20.2	26.1
				36	35	20.2	26.3
				75	0	20.3	27.2
15.0	21375	2562.5	QPSK	1	0	22.0	25.8
				1	37	21.9	26.3
				1	74	21.8	26.0
				36	0	21.3	26.2
				36	16	21.1	26.2
				36	35	21.1	26.1
				75	0	21.1	26.5
			16-QAM	1	0	20.9	26.0
				1	37	20.8	26.3
				1	74	20.7	26.1
				36	0	20.2	26.2
				36	16	20.1	26.1
				36	35	20.1	26.1
				75	0	20.2	26.5

OUTPUT POWER FOR LTE BAND 7 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20850	2510.0	QPSK	1	0	22.5	26.0
				1	49	22.4	26.9
				1	99	22.2	26.0
				50	0	21.5	26.6
				50	24	21.5	26.6
				50	49	21.4	26.1
				100	0	21.3	27.3
			16-QAM	1	0	21.3	26.2
				1	49	21.1	26.3
				1	99	21.0	26.0
				50	0	20.5	26.4
				50	24	20.5	26.5
				50	49	20.4	26.1
				100	0	20.4	26.8
20.0	21100	2535.0	QPSK	1	0	22.2	26.7
				1	49	22.3	27.0
				1	99	22.2	27.2
				50	0	21.3	26.6
				50	24	21.3	26.5
				50	49	21.3	26.9
				100	0	21.3	27.0
			16-QAM	1	0	21.3	25.4
				1	49	21.3	25.9
				1	99	21.3	26.8
				50	0	20.2	26.3
				50	24	20.2	26.2
				50	49	20.2	26.6
				100	0	20.3	26.8
20.0	21350	2560.0	QPSK	1	0	22.2	26.9
				1	49	22.2	26.2
				1	99	22.0	25.9
				50	0	21.2	26.5
				50	24	21.3	26.3
				50	49	21.1	26.2
				100	0	21.2	26.4
			16-QAM	1	0	21.3	26.5
				1	49	21.3	26.2
				1	99	21.1	25.9
				50	0	20.1	26.0
				50	24	20.1	26.2
				50	49	20.1	26.1
				100	0	20.3	26.2

7.1.5. LTE BAND 12

OUTPUT POWER FOR LTE BAND 12 (1.4MHZz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	23017	699.7	QPSK	1	0	24.0	28.5
				1	2	23.9	28.4
				1	5	24.0	28.6
				3	0	24.0	28.9
				3	1	24.0	28.8
				3	2	24.0	28.8
				6	0	23.0	28.4
			16QAM	1	0	23.2	28.6
				1	2	23.2	28.5
				1	5	23.2	28.6
				3	0	23.1	28.9
				3	1	23.0	28.8
				3	2	23.0	28.8
				6	0	22.0	28.2
1.4	23095	707.5	QPSK	1	0	24.0	28.9
				1	2	23.9	28.7
				1	5	24.0	28.9
				3	0	23.9	29.1
				3	1	23.9	28.9
				3	2	23.9	28.9
				6	0	22.9	28.3
			16QAM	1	0	23.0	28.8
				1	2	22.9	28.6
				1	5	23.0	28.6
				3	0	22.8	28.9
				3	1	22.7	28.8
				3	2	22.8	28.8
				6	0	22.0	28.4
1.4	23173	715.3	QPSK	1	0	23.8	28.7
				1	2	23.8	28.6
				1	5	24.0	29.0
				3	0	23.9	29.1
				3	1	23.9	28.7
				3	2	23.9	29.0
				6	0	22.9	29.3
			16QAM	1	0	22.9	28.9
				1	2	22.9	28.8
				1	5	23.0	28.7
				3	0	22.9	28.8
				3	1	22.9	28.8
				3	2	22.9	28.7
				6	0	22.0	28.9

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	23025	700.5	QPSK	1	0	23.9	28.5
				1	7	23.9	28.4
				1	14	23.9	28.7
				8	0	23.0	28.2
				8	4	23.0	28.0
				8	7	23.0	28.1
				15	0	23.0	28.3
			16QAM	1	0	23.2	28.4
				1	7	23.1	28.5
				1	14	23.2	28.4
				8	0	22.1	28.0
				8	4	22.1	27.9
				8	7	22.1	28.0
				15	0	22.0	28.5
3.0	23095	707.5	QPSK	1	0	23.9	28.8
				1	7	23.7	28.6
				1	14	23.9	28.8
				8	0	22.9	28.2
				8	4	22.9	28.1
				8	7	22.9	28.1
				15	0	22.9	28.9
			16QAM	1	0	22.8	28.5
				1	7	22.7	28.3
				1	14	22.7	28.4
				8	0	22.0	27.9
				8	4	21.9	27.8
				8	7	22.0	27.8
				15	0	22.0	28.5
3.0	23165	714.5	QPSK	1	0	23.8	28.7
				1	7	23.7	28.6
				1	14	23.9	28.7
				8	0	22.9	28.1
				8	4	22.9	28.1
				8	7	22.9	28.1
				15	0	22.9	28.3
			16QAM	1	0	22.7	28.4
				1	7	22.7	28.4
				1	14	22.8	28.5
				8	0	22.0	27.8
				8	4	21.9	27.8
				8	7	21.9	27.8
				15	0	21.9	28.4

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23035	701.5	QPSK	1	0	24.0	28.6
				1	12	23.8	28.5
				1	24	23.9	28.8
				12	0	23.0	28.0
				12	6	23.0	28.0
				12	11	23.0	28.1
				25	0	23.0	28.2
			16QAM	1	0	23.1	28.4
				1	12	23.0	28.4
				1	24	23.1	28.5
				12	0	21.8	27.9
				12	6	21.8	27.9
				12	11	21.8	28.0
				25	0	22.0	28.6
5.0	23095	707.5	QPSK	1	0	23.9	28.6
				1	12	23.8	28.6
				1	24	23.8	28.7
				12	0	23.0	28.2
				12	6	22.9	28.1
				12	11	23.0	28.1
				25	0	22.9	28.9
			16QAM	1	0	23.0	28.6
				1	12	23.0	28.5
				1	24	23.0	28.5
				12	0	21.8	28.1
				12	6	21.7	27.9
				12	11	21.7	27.9
				25	0	21.9	28.2
5.0	23155	713.5	QPSK	1	0	23.8	28.7
				1	12	23.8	28.5
				1	24	23.9	28.9
				12	0	22.9	28.0
				12	6	22.9	28.0
				12	11	23.0	28.1
				25	0	22.8	28.3
			16QAM	1	0	23.1	28.6
				1	12	22.9	28.4
				1	24	23.1	28.5
				12	0	21.7	28.1
				12	6	21.7	27.9
				12	11	21.7	27.9
				25	0	21.8	28.2

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23060	704.0	QPSK	1	0	23.9	28.4
				1	24	23.8	28.7
				1	49	23.8	28.5
				25	0	23.0	28.3
				25	12	22.9	28.1
				25	24	23.0	28.3
				50	0	23.0	29.0
			16QAM	1	0	23.2	28.5
				1	24	23.1	28.8
				1	49	23.1	28.6
				25	0	22.1	28.1
				25	12	22.0	28.0
				25	24	22.0	28.2
				50	0	21.9	29.0
10.0	23095	707.5	QPSK	1	0	23.9	28.7
				1	24	23.8	28.7
				1	49	23.8	28.6
				25	0	23.0	28.2
				25	12	22.9	28.1
				25	24	22.9	28.1
				50	0	22.9	28.6
			16QAM	1	0	22.7	28.3
				1	24	22.7	28.4
				1	49	22.7	28.2
				25	0	21.9	28.0
				25	12	21.9	28.0
				25	24	21.9	28.0
				50	0	21.9	28.7
10.0	23130	711.0	QPSK	1	0	23.8	28.6
				1	24	23.8	28.5
				1	49	23.9	28.7
				25	0	23.0	28.2
				25	12	22.9	28.0
				25	24	22.9	28.1
				50	0	22.9	29.0
			16QAM	1	0	23.1	28.8
				1	24	23.0	28.5
				1	49	23.1	28.8
				25	0	22.0	28.1
				25	12	22.0	28.0
				25	24	22.0	28.1
				50	0	21.9	28.6

7.1.6. LTE BAND 17

OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23755	706.5	QPSK	1	0	23.8	28.3
				1	12	23.7	28.3
				1	24	23.8	28.1
				12	0	22.8	28.1
				12	6	22.9	28.2
				12	11	22.9	28.2
				25	0	22.9	28.3
			16QAM	1	0	22.9	28.4
				1	12	22.9	28.1
				1	24	23.0	28.2
				12	0	21.7	28.0
				12	6	21.7	28.0
				12	11	21.7	28.1
				25	0	21.9	28.2
5.0	23790	710.0	QPSK	1	0	23.8	28.3
				1	12	23.8	28.1
				1	24	23.8	27.8
				12	0	22.9	28.1
				12	6	22.9	28.0
				12	11	22.9	27.9
				25	0	22.9	27.9
			16QAM	1	0	23.0	28.2
				1	12	22.9	28.2
				1	24	22.9	27.7
				12	0	21.8	28.1
				12	6	21.8	28.0
				12	11	21.7	27.9
				25	0	21.9	27.9
5.0	23825	713.5	QPSK	1	0	23.8	27.8
				1	12	23.7	28.0
				1	24	23.8	27.6
				12	0	22.9	27.9
				12	6	22.9	27.9
				12	11	22.9	27.8
				25	0	22.9	28.0
			16QAM	1	0	23.0	27.8
				1	12	22.9	28.0
				1	24	23.0	27.6
				12	0	21.7	27.9
				12	6	21.7	28.0
				12	11	21.7	27.9
				25	0	21.9	27.9

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23780	709.0	QPSK	1	0	23.8	28.6
				1	24	23.8	28.2
				1	49	23.8	28.0
				25	0	22.9	28.3
				25	12	22.9	28.2
				25	24	22.9	28.0
				50	0	22.9	28.6
			16QAM	1	0	22.7	28.3
				1	24	22.6	28.2
				1	49	22.6	28.1
				25	0	22.0	28.2
				25	12	21.9	28.0
				25	24	21.9	28.0
				50	0	21.9	28.1
10.0	23790	710.0	QPSK	1	0	23.7	28.5
				1	24	23.8	27.9
				1	49	23.8	27.8
				25	0	22.9	28.1
				25	12	23.0	28.1
				25	24	22.9	27.9
				50	0	22.9	28.3
			16QAM	1	0	22.6	28.2
				1	24	22.7	27.9
				1	49	22.7	27.9
				25	0	21.9	28.1
				25	12	21.9	28.0
				25	24	21.9	28.0
				50	0	21.9	28.3
10.0	23800	711.0	QPSK	1	0	23.7	28.6
				1	24	23.7	28.1
				1	49	23.8	27.9
				25	0	22.9	28.2
				25	12	22.9	28.2
				25	24	22.9	28.0
				50	0	22.9	28.5
			16QAM	1	0	22.6	28.3
				1	24	22.6	28.1
				1	49	22.7	27.9
				25	0	21.9	28.1
				25	12	21.9	28.1
				25	24	21.9	28.0
				50	0	21.9	28.2

7.1.7. LTE BAND 25

OUTPUT POWER FOR LTE BAND 25 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26047	1850.7	QPSK	1	0	21.8	26.6
				1	2	21.8	26.4
				1	5	21.8	26.6
				3	0	21.9	26.9
				3	1	21.8	26.7
				3	2	21.8	26.7
			16QAM	6	0	20.9	26.6
				1	0	21.2	26.8
				1	2	21.1	26.5
				1	5	21.1	26.7
				3	0	21.0	26.8
				3	1	21.0	26.9
				3	2	21.0	26.9
				6	0	20.0	26.3
1.4	26365	1882.5	QPSK	1	0	21.9	26.8
				1	2	21.8	26.6
				1	5	21.8	26.7
				3	0	21.9	27.0
				3	1	22.0	26.9
				3	2	21.9	26.9
			16QAM	6	0	21.0	26.7
				1	0	21.2	26.9
				1	2	21.1	26.7
				1	5	21.1	26.8
				3	0	21.1	26.8
				3	1	21.1	26.7
				3	2	21.0	26.7
				6	0	20.0	26.9
1.4	26683	1914.3	QPSK	1	0	22.0	26.7
				1	2	21.8	26.5
				1	5	21.9	26.7
				3	0	21.9	26.9
				3	1	21.9	26.9
				3	2	21.9	26.9
			16QAM	6	0	20.9	27.0
				1	0	21.1	26.8
				1	2	21.1	26.6
				1	5	21.2	26.8
				3	0	21.0	26.8
				3	1	21.0	26.8
				3	2	21.0	26.9
				6	0	20.0	26.8

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26055	1851.5	QPSK	1	0	21.9	26.6
				1	7	21.7	26.3
				1	14	21.9	26.7
				8	0	20.9	26.2
				8	4	20.9	26.1
				8	7	20.9	26.2
				15	0	20.9	26.4
			16QAM	1	0	21.2	26.8
				1	7	21.1	26.6
				1	14	21.1	26.8
				8	0	20.1	26.1
				8	4	20.0	26.0
				8	7	20.0	26.1
				15	0	20.0	26.7
3.0	26365	1882.5	QPSK	1	0	21.9	26.7
				1	7	21.7	25.6
				1	14	21.8	25.6
				8	0	21.0	26.3
				8	4	21.0	26.2
				8	7	20.9	26.2
				15	0	21.0	26.3
			16QAM	1	0	21.1	26.6
				1	7	20.9	25.9
				1	14	21.0	25.9
				8	0	20.1	26.2
				8	4	20.1	26.2
				8	7	20.0	26.2
				15	0	20.0	26.8
3.0	26675	1913.5	QPSK	1	0	21.9	25.5
				1	7	21.8	26.4
				1	14	21.8	26.6
				8	0	20.9	26.4
				8	4	20.9	26.2
				8	7	20.9	26.3
				15	0	20.9	26.7
			16QAM	1	0	21.0	26.1
				1	7	21.0	26.6
				1	14	21.1	26.8
				8	0	20.0	26.2
				8	4	20.0	26.1
				8	7	20.0	26.1
				15	0	20.0	27.0

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26065	1852.5	QPSK	1	0	21.8	26.5
				1	12	21.9	26.5
				1	24	21.8	26.7
				12	0	20.9	26.1
				12	6	21.0	26.1
				12	11	21.0	26.1
				25	0	20.9	26.6
			16QAM	1	0	21.0	26.4
				1	12	21.1	26.4
				1	24	21.0	26.5
				12	0	19.8	26.0
				12	6	19.9	26.1
				12	11	19.9	26.1
				25	0	20.0	26.7
5.0	26365	1882.5	QPSK	1	0	21.8	26.7
				1	12	21.7	26.1
				1	24	21.8	25.7
				12	0	21.0	26.2
				12	6	20.9	26.1
				12	11	20.8	26.0
				25	0	20.9	26.5
			16QAM	1	0	21.0	25.9
				1	12	20.9	25.3
				1	24	20.9	25.7
				12	0	19.8	26.0
				12	6	19.8	26.1
				12	11	19.7	26.0
				25	0	20.0	26.5
5.0	26665	1912.5	QPSK	1	0	21.9	25.8
				1	12	21.8	26.5
				1	24	21.8	26.7
				12	0	20.9	25.7
				12	6	20.8	26.1
				12	11	20.9	26.1
				25	0	20.8	26.8
			16QAM	1	0	21.1	25.8
				1	12	21.0	25.5
				1	24	21.0	26.6
				12	0	19.7	25.8
				12	6	19.7	26.0
				12	11	19.8	26.1
				25	0	19.9	26.6

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26090	1855.0	QPSK	1	0	21.8	26.5
				1	24	21.8	26.5
				1	49	21.8	25.7
				25	0	21.0	26.2
				25	12	21.0	26.4
				25	24	21.0	26.4
				50	0	21.0	27.2
			16QAM	1	0	21.1	26.6
				1	24	21.1	26.7
				1	49	21.1	26.0
				25	0	20.1	26.2
				25	12	20.1	26.2
				25	24	20.1	26.3
				50	0	20.0	27.1
10.0	26365	1882.5	QPSK	1	0	21.8	26.5
				1	24	21.8	26.5
				1	49	21.7	26.0
				25	0	21.0	26.2
				25	12	21.0	26.2
				25	24	20.9	25.7
				50	0	21.0	26.5
			16QAM	1	0	21.1	26.6
				1	24	21.1	26.7
				1	49	21.0	26.0
				25	0	20.1	26.2
				25	12	20.1	26.3
				25	24	20.0	25.7
				50	0	20.0	26.8
10.0	26640	1910.0	QPSK	1	0	21.8	25.5
				1	24	21.7	25.7
				1	49	21.7	26.6
				25	0	20.9	25.9
				25	12	20.8	25.8
				25	24	20.8	26.3
				50	0	20.9	25.9
			16QAM	1	0	21.0	25.7
				1	24	20.9	25.8
				1	49	21.0	26.6
				25	0	20.0	25.9
				25	12	19.9	25.9
				25	24	20.0	26.3
				50	0	19.9	26.5

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	26115	1857.5	QPSK	1	0	21.9	26.5
				1	37	21.9	26.5
				1	74	21.8	25.9
				36	0	21.1	26.4
				36	16	21.0	26.3
				36	35	21.0	26.3
				75	0	21.1	26.8
			16-QAM	1	0	21.0	26.8
				1	37	20.9	26.8
				1	74	20.9	25.9
				36	0	20.1	26.3
				36	16	20.0	26.2
				36	35	20.1	26.3
				75	0	20.1	26.8
15.0	26365	1882.5	QPSK	1	0	21.9	26.4
				1	37	21.8	26.4
				1	74	21.8	26.2
				36	0	21.1	26.4
				36	16	21.1	26.3
				36	35	21.0	25.9
				75	0	21.1	27.0
			16-QAM	1	0	21.0	26.7
				1	37	20.8	26.6
				1	74	20.8	26.2
				36	0	20.1	26.2
				36	16	20.1	26.2
				36	35	19.9	25.8
				75	0	20.1	26.9
15.0	26615	1907.5	QPSK	1	0	21.8	26.6
				1	37	21.7	25.7
				1	74	21.9	26.7
				36	0	21.0	26.5
				36	16	21.0	26.3
				36	35	20.9	26.3
				75	0	20.9	26.8
			16-QAM	1	0	20.8	25.2
				1	37	20.6	25.7
				1	74	20.7	26.3
				36	0	20.0	26.4
				36	16	20.0	26.2
				36	35	19.9	26.2
				75	0	20.1	27.1

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	26140	1860.0	QPSK	1	0	22.0	26.9
				1	49	21.9	25.7
				1	99	21.9	26.9
				50	0	21.1	26.5
				50	24	21.1	26.5
				50	49	21.1	26.6
				100	0	21.1	26.5
			16-QAM	1	0	21.2	26.5
				1	49	21.1	25.7
				1	99	21.1	25.5
				50	0	20.0	26.5
				50	24	20.1	26.4
				50	49	20.0	26.5
				100	0	20.2	26.8
20.0	26365	1882.5	QPSK	1	0	21.9	26.6
				1	49	21.9	26.7
				1	99	21.9	26.1
				50	0	21.1	26.4
				50	24	21.1	26.4
				50	49	21.0	25.9
				100	0	21.0	26.9
			16-QAM	1	0	21.1	26.4
				1	49	21.1	26.2
				1	99	21.1	26.2
				50	0	20.0	26.3
				50	24	20.1	26.3
				50	49	20.0	26.5
				100	0	20.1	27.2
20.0	26590	1905.0	QPSK	1	0	22.0	27.1
				1	49	21.9	26.8
				1	99	22.0	26.9
				50	0	21.1	27.0
				50	24	21.0	26.4
				50	49	20.9	26.4
				100	0	20.9	27.1
			16-QAM	1	0	21.2	25.8
				1	49	21.1	25.4
				1	99	21.1	26.5
				50	0	20.0	26.6
				50	24	19.9	26.3
				50	49	19.8	26.4
				100	0	20.0	27.0

7.1.8. LTE BAND 26

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26697	814.7	QPSK	1	0	23.9	28.5
				1	2	23.8	28.5
				1	5	23.8	28.6
				3	0	23.9	28.7
				3	1	23.9	28.8
				3	2	23.9	28.8
			16QAM	6	0	22.9	28.3
				1	0	22.9	28.6
				1	2	22.9	28.6
				1	5	22.9	28.7
				3	0	22.9	28.7
				3	1	22.9	28.8
				3	2	22.9	28.8
				6	0	22.0	28.2
1.4	26740	819.0	QPSK	1	0	24.0	28.6
				1	2	23.8	28.4
				1	5	23.9	28.6
				3	0	23.9	28.7
				3	1	23.9	28.8
				3	2	23.9	28.8
			16QAM	6	0	22.9	28.9
				1	0	23.1	28.6
				1	2	23.1	28.5
				1	5	23.1	28.6
				3	0	23.0	28.8
				3	1	23.0	28.9
				3	2	23.0	28.8
				6	0	21.9	28.9
1.4	26783	823.3	QPSK	1	0	23.8	28.6
				1	2	23.8	28.4
				1	5	23.9	28.7
				3	0	23.9	28.9
				3	1	23.8	28.7
				3	2	23.9	28.8
			16QAM	6	0	22.9	28.3
				1	0	22.9	28.7
				1	2	22.9	28.5
				1	5	22.9	28.7
				3	0	22.9	28.8
				3	1	22.9	28.7
				3	2	22.8	28.7
				6	0	22.0	28.2

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26705	815.5	QPSK	1	0	23.8	28.5
				1	7	23.7	28.3
				1	14	23.7	28.5
				8	0	22.9	27.9
				8	4	22.8	27.7
				8	7	22.9	28.0
				15	0	22.9	28.3
			16QAM	1	0	22.7	28.2
				1	7	22.7	28.0
				1	14	22.7	28.2
				8	0	21.9	27.6
				8	4	21.9	27.6
				8	7	21.9	27.6
				15	0	21.9	28.2
3.0	26740	819.0	QPSK	1	0	23.8	28.6
				1	7	23.8	28.4
				1	14	23.8	28.6
				8	0	22.9	28.0
				8	4	22.9	28.0
				8	7	22.9	28.1
				15	0	22.9	28.8
			16QAM	1	0	23.1	28.6
				1	7	23.0	28.5
				1	14	23.1	28.6
				8	0	22.0	27.9
				8	4	22.0	27.9
				8	7	22.0	28.0
				15	0	21.9	28.6
3.0	26775	822.5	QPSK	1	0	23.8	28.6
				1	7	23.7	28.3
				1	14	23.8	28.5
				8	0	22.9	28.0
				8	4	22.9	27.9
				8	7	22.9	28.0
				15	0	22.9	28.3
			16QAM	1	0	22.7	28.2
				1	7	22.6	28.0
				1	14	22.7	28.2
				8	0	21.9	27.7
				8	4	21.9	27.6
				8	7	21.9	27.7
				15	0	21.9	28.3

OUTPUT POWER FOR LTE BAND 26 (5.0 MH)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26715	816.5	QPSK	1	0	23.9	28.6
				1	12	23.8	28.5
				1	24	23.8	28.5
				12	0	22.9	28.1
				12	6	22.9	28.0
				12	11	22.9	28.0
				25	0	22.9	28.7
			16QAM	1	0	22.8	28.4
				1	12	22.8	28.3
				1	24	22.8	28.5
				12	0	21.9	27.9
				12	6	21.9	27.8
				12	11	22.0	27.9
				25	0	21.9	28.6
5.0	26740	819.0	QPSK	1	0	23.8	28.6
				1	12	23.8	28.4
				1	24	23.8	28.6
				12	0	22.9	28.0
				12	6	22.9	27.9
				12	11	22.9	27.9
				25	0	22.9	28.5
			16QAM	1	0	23.0	28.4
				1	12	23.0	28.3
				1	24	23.0	28.3
				12	0	21.8	27.9
				12	6	21.7	27.8
				12	11	21.7	27.9
				25	0	21.9	28.2
5.0	26765	821.5	QPSK	1	0	23.8	28.6
				1	12	23.8	28.4
				1	24	23.8	28.5
				12	0	22.9	28.0
				12	6	22.9	27.9
				12	11	22.9	27.9
				25	0	22.9	28.5
			16QAM	1	0	23.0	28.4
				1	12	23.0	28.2
				1	24	23.0	28.3
				12	0	21.7	27.9
				12	6	21.7	27.8
				12	11	21.7	27.8
				25	0	21.9	28.4

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26740	819.0	QPSK	1	0	23.9	28.4
				1	24	23.8	28.5
				1	49	23.8	28.3
				25	0	23.0	28.1
				25	12	22.9	28.1
				25	24	22.9	28.2
				50	0	22.9	28.5
			16QAM	1	0	23.1	28.5
				1	24	23.0	28.5
				1	49	23.0	28.3
				25	0	22.0	28.0
				25	12	22.0	27.9
				25	24	22.0	28.0
				50	0	21.9	28.5

7.1.9. LTE BAND 41

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	39675	2498.5	QPSK	1	0	22.3	27.3
				1	12	22.2	27.3
				1	24	22.3	27.4
				12	0	21.3	26.9
				12	6	21.3	26.8
				12	11	21.3	26.9
				25	0	21.2	27.2
			16QAM	1	0	20.9	26.2
				1	12	21.0	26.3
				1	24	21.0	26.4
				12	0	20.4	26.6
				12	6	20.3	26.6
				12	11	20.3	26.7
				25	0	20.1	26.8
5.0	40620	2593.0	QPSK	1	0	21.4	26.3
				1	12	21.4	26.2
				1	24	21.5	26.4
				12	0	20.5	27.4
				12	6	20.4	27.1
				12	11	20.5	27.4
				25	0	20.5	26.9
			16QAM	1	0	20.7	26.8
				1	12	20.7	26.8
				1	24	20.7	26.8
				12	0	19.4	26.8
				12	6	19.4	26.9
				12	11	19.4	26.8
				25	0	19.4	26.5
5.0	41565	2687.5	QPSK	1	0	22.2	26.8
				1	12	22.2	26.9
				1	24	22.2	27.0
				12	0	21.2	27.5
				12	6	21.1	27.5
				12	11	21.1	27.4
				25	0	21.2	27.5
			16QAM	1	0	21.5	26.8
				1	12	21.5	26.8
				1	24	21.4	26.8
				12	0	20.2	26.7
				12	6	20.2	26.6
				12	11	20.1	26.6
				25	0	20.1	26.9

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	39700	2501.0	QPSK	1	0	22.3	27.5
				1	24	22.4	27.5
				1	49	22.3	27.6
				25	0	21.3	27.3
				25	12	21.2	27.4
				25	24	21.2	27.4
				50	0	21.3	27.7
			16QAM	1	0	21.2	26.3
				1	24	21.2	26.2
				1	49	21.1	26.4
				25	0	20.2	27.0
				25	12	20.1	27.0
				25	24	20.1	27.1
				50	0	20.3	27.0
10.0	40620	2593.0	QPSK	1	0	21.7	27.2
				1	24	21.7	27.2
				1	49	21.7	27.2
				25	0	20.5	26.9
				25	12	20.5	27.0
				25	24	20.5	26.8
				50	0	20.5	26.8
			16QAM	1	0	20.4	25.8
				1	24	20.4	25.7
				1	49	20.4	25.8
				25	0	19.4	26.7
				25	12	19.4	26.6
				25	24	19.4	26.7
				50	0	19.5	26.5
10.0	41540	2685.0	QPSK	1	0	22.5	27.4
				1	24	22.5	27.4
				1	49	22.4	27.4
				25	0	21.3	27.3
				25	12	21.3	27.3
				25	24	21.2	27.2
				50	0	21.3	27.4
			16QAM	1	0	21.1	26.2
				1	24	21.1	26.1
				1	49	21.1	26.3
				25	0	20.1	26.8
				25	12	20.2	26.8
				25	24	20.1	26.8
				50	0	20.4	27.2

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	39725	2503.5	QPSK	1	0	22.2	27.7
				1	37	22.2	27.7
				1	74	22.2	28.0
				36	0	21.3	27.6
				36	16	21.3	27.7
				36	35	21.3	27.9
				75	0	21.3	28.1
			16-QAM	1	0	20.8	26.8
				1	37	20.8	26.9
				1	74	20.7	27.2
				36	0	20.2	27.0
				36	16	20.2	27.1
				36	35	20.2	27.2
				75	0	20.3	27.5
15.0	40620	2593.0	QPSK	1	0	21.5	27.6
				1	37	21.5	27.4
				1	74	21.5	27.4
				36	0	20.5	27.3
				36	16	20.5	27.3
				36	35	20.6	27.3
				75	0	20.5	27.0
			16-QAM	1	0	20.1	26.8
				1	37	20.1	26.7
				1	74	20.0	26.5
				36	0	19.4	26.6
				36	16	19.5	26.6
				36	35	19.4	26.6
				75	0	19.5	27.2
15.0	41515	2682.5	QPSK	1	0	22.5	27.3
				1	37	22.4	27.4
				1	74	22.4	27.4
				36	0	21.4	27.2
				36	16	21.4	27.3
				36	35	21.4	27.3
				75	0	21.4	27.6
			16-QAM	1	0	21.3	26.2
				1	37	21.2	26.2
				1	74	21.2	26.4
				36	0	20.3	26.8
				36	16	20.4	27.1
				36	35	20.2	26.6
				75	0	20.4	27.5

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	39750	2506.0	QPSK	1	0	22.2	27.1
				1	49	22.1	27.1
				1	99	22.0	27.1
				50	0	21.3	27.3
				50	24	21.3	27.6
				50	49	21.3	27.6
				100	0	21.3	27.9
			16-QAM	1	0	21.3	26.5
				1	49	21.1	26.3
				1	99	21.2	26.6
				50	0	20.3	27.0
				50	24	20.3	27.1
				50	49	20.2	27.2
				100	0	20.3	27.5
20.0	40620	2593.0	QPSK	1	0	21.4	26.9
				1	49	21.4	26.7
				1	99	21.5	26.9
				50	0	20.5	27.1
				50	24	20.6	27.2
				50	49	20.5	27.2
				100	0	20.5	26.9
			16-QAM	1	0	21.0	27.0
				1	49	21.0	26.9
				1	99	21.1	27.0
				50	0	19.6	27.2
				50	24	19.5	27.0
				50	49	19.6	27.1
				100	0	19.4	26.7
20.0	41490	2680.0	QPSK	1	0	22.3	26.4
				1	49	22.1	26.6
				1	99	22.1	27.1
				50	0	21.4	27.1
				50	24	21.4	27.3
				50	49	21.3	27.3
				100	0	21.4	27.6
			16-QAM	1	0	21.3	26.1
				1	49	21.2	26.2
				1	99	21.3	26.7
				50	0	20.3	27.0
				50	24	20.3	27.1
				50	49	20.3	27.1
				100	0	20.4	27.4

7.2. UAT

7.2.1. LTE BAND 2

OUTPUT POWER FOR LTE BAND 2 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	18607	1850.7	QPSK	1	0	22.4	27.1
				1	2	22.2	26.8
				1	5	22.2	27.1
				3	0	22.3	27.2
				3	1	22.3	27.2
				3	2	22.3	27.2
				6	0	21.3	27.3
			16QAM	1	0	21.3	27.2
				1	2	21.3	27.1
				1	5	21.3	27.1
				3	0	21.3	27.2
				3	1	21.3	27.1
				3	2	21.3	27.1
				6	0	20.5	27.2
1.4	18900	1880.0	QPSK	1	0	22.2	26.1
				1	2	22.1	26.0
				1	5	22.2	26.2
				3	0	22.2	26.4
				3	1	22.2	26.3
				3	2	22.3	26.3
				6	0	21.3	26.5
			16QAM	1	0	21.4	26.1
				1	2	21.3	26.1
				1	5	21.4	26.2
				3	0	21.3	26.3
				3	1	21.3	26.2
				3	2	21.3	26.3
				6	0	20.3	26.4
1.4	19193	1909.3	QPSK	1	0	22.0	27.0
				1	2	21.9	26.8
				1	5	22.0	26.9
				3	0	22.1	27.0
				3	1	22.1	27.0
				3	2	22.1	27.0
				6	0	21.1	26.9
			16QAM	1	0	21.5	27.0
				1	2	21.3	26.9
				1	5	21.4	27.0
				3	0	21.2	27.1
				3	1	21.2	27.1
				3	2	21.2	27.1
				6	0	20.2	26.7

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	18615	1851.5	QPSK	1	0	22.3	27.2
				1	7	22.3	27.0
				1	14	22.3	27.2
				8	0	21.3	26.6
				8	4	21.3	26.5
				8	7	21.3	26.6
				15	0	21.3	27.2
			16QAM	1	0	21.4	26.9
				1	7	21.3	26.8
				1	14	21.4	26.8
				8	0	20.3	26.2
				8	4	20.2	26.1
				8	7	20.3	26.2
				15	0	20.3	26.8
3.0	18900	1880.0	QPSK	1	0	21.9	25.8
				1	7	22.0	25.9
				1	14	22.1	26.3
				8	0	21.2	26.1
				8	4	20.9	25.9
				8	7	21.0	26.1
				15	0	21.2	26.2
			16QAM	1	0	21.3	25.9
				1	7	21.2	25.9
				1	14	21.3	26.3
				8	0	20.3	26.1
				8	4	20.3	26.2
				8	7	20.3	26.2
				15	0	20.2	26.1
3.0	19185	1908.5	QPSK	1	0	22.1	26.9
				1	7	22.0	26.8
				1	14	22.1	27.0
				8	0	21.1	26.5
				8	4	21.0	26.4
				8	7	21.1	26.5
				15	0	21.0	26.4
			16QAM	1	0	21.2	26.9
				1	7	21.1	26.8
				1	14	21.2	26.9
				8	0	20.2	26.3
				8	4	20.2	26.2
				8	7	20.2	26.2
				15	0	20.1	27.0

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak(dBm)
				Size	Offset		
5.0	18625	1852.5	QPSK	1	0	22.3	27.0
				1	12	22.3	27.0
				1	24	22.3	26.0
				12	0	21.4	26.6
				12	6	21.4	26.5
				12	11	21.4	26.6
				25	0	21.3	27.2
			16QAM	1	0	21.1	26.8
				1	12	21.1	25.6
				1	24	21.1	26.0
				12	0	20.4	26.4
				12	6	20.4	26.3
				12	11	20.4	26.0
				25	0	20.4	26.7
5.0	18900	1880.0	QPSK	1	0	22.1	25.9
				1	12	22.0	25.9
				1	24	22.0	26.4
				12	0	21.2	26.0
				12	6	21.2	26.0
				12	11	21.1	26.1
				25	0	21.2	26.5
			16QAM	1	0	21.2	25.8
				1	12	21.2	26.0
				1	24	21.2	26.4
				12	0	20.1	26.0
				12	6	20.1	26.0
				12	11	20.0	26.1
				25	0	20.1	26.4
5.0	19175	1907.5	QPSK	1	0	22.0	26.5
				1	12	21.9	26.7
				1	24	21.9	26.9
				12	0	21.0	26.3
				12	6	21.0	26.2
				12	11	21.0	26.2
				25	0	21.0	26.7
			16QAM	1	0	21.3	26.5
				1	12	21.1	26.7
				1	24	21.2	26.8
				12	0	19.9	26.4
				12	6	19.9	26.2
				12	11	19.9	26.3
				25	0	20.0	26.9

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	18650	1855.0	QPSK	1	0	22.4	26.9
				1	24	22.3	26.0
				1	49	22.1	26.7
				25	0	21.3	26.6
				25	12	21.2	26.1
				25	24	21.3	26.4
				50	0	21.2	26.5
			16QAM	1	0	21.5	27.1
				1	24	21.3	26.0
				1	49	21.3	26.8
				25	0	20.4	26.5
				25	12	20.4	26.1
				25	24	20.4	26.4
				50	0	20.3	26.4
10.0	18900	1880.0	QPSK	1	0	22.1	25.8
				1	24	22.0	26.0
				1	49	22.0	26.8
				25	0	21.2	25.9
				25	12	21.2	26.1
				25	24	21.2	26.4
				50	0	21.2	26.7
			16QAM	1	0	21.4	25.8
				1	24	21.3	26.0
				1	49	21.3	26.4
				25	0	20.3	26.0
				25	12	20.3	26.1
				25	24	20.3	26.3
				50	0	20.2	26.4
10.0	19150	1905.0	QPSK	1	0	22.1	26.1
				1	24	22.0	26.4
				1	49	21.9	26.8
				25	0	21.2	26.3
				25	12	21.2	26.5
				25	24	21.0	26.5
				50	0	21.1	26.9
			16QAM	1	0	21.4	26.2
				1	24	21.3	26.4
				1	49	21.2	26.6
				25	0	20.4	26.3
				25	12	20.3	26.4
				25	24	20.2	26.5
				50	0	20.2	26.8

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	18675	1857.5	QPSK	1	0	22.3	27.0
				1	37	22.3	26.4
				1	74	22.2	26.9
				36	0	21.4	26.7
				36	16	21.4	26.4
				36	35	21.4	26.7
				75	0	21.4	27.1
			16-QAM	1	0	21.4	27.0
				1	37	21.4	26.5
				1	74	21.3	27.0
				36	0	20.4	26.7
				36	16	20.4	26.5
				36	35	20.4	26.7
				75	0	20.4	26.7
15.0	18900	1880.0	QPSK	1	0	22.3	26.0
				1	37	22.3	26.1
				1	74	22.1	26.9
				36	0	21.4	26.1
				36	16	21.3	26.2
				36	35	21.4	26.5
				75	0	21.4	26.8
			16-QAM	1	0	21.3	26.0
				1	37	21.2	26.1
				1	74	21.1	26.4
				36	0	20.4	26.0
				36	16	20.4	26.2
				36	35	20.4	26.5
				75	0	20.4	27.0
15.0	19125	1902.5	QPSK	1	0	22.4	26.8
				1	37	22.2	26.3
				1	74	22.1	26.8
				36	0	21.4	26.6
				36	16	21.4	26.5
				36	35	21.3	26.6
				75	0	21.3	26.9
			16-QAM	1	0	21.3	27.0
				1	37	21.2	26.3
				1	74	21.1	26.6
				36	0	20.5	26.5
				36	16	20.4	26.4
				36	35	20.3	26.6
				75	0	20.4	27.0

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	18700	1860.0	QPSK	1	0	22.5	26.9
				1	49	22.4	26.9
				1	99	22.4	26.5
				50	0	21.4	26.9
				50	24	21.4	26.7
				50	49	21.4	26.9
				100	0	21.4	27.4
			16-QAM	1	0	21.6	27.0
				1	49	21.6	26.9
				1	99	21.5	26.6
				50	0	20.4	26.9
				50	24	20.4	26.7
				50	49	20.3	26.8
				100	0	20.5	27.2
20.0	18900	1880.0	QPSK	1	0	22.4	26.2
				1	49	22.3	26.1
				1	99	22.3	27.2
				50	0	21.5	26.2
				50	24	21.4	26.4
				50	49	21.4	26.7
				100	0	21.3	26.7
			16-QAM	1	0	21.1	26.2
				1	49	21.1	26.2
				1	99	21.0	27.1
				50	0	20.4	26.1
				50	24	20.4	26.3
				50	49	20.4	26.7
				100	0	20.5	26.7
20.0	19100	1900.0	QPSK	1	0	22.4	26.6
				1	49	22.4	26.2
				1	99	22.2	26.9
				50	0	21.5	26.9
				50	24	21.4	26.5
				50	49	21.3	26.6
				100	0	21.3	26.9
			16-QAM	1	0	21.5	27.1
				1	49	21.5	26.2
				1	99	21.3	26.9
				50	0	20.4	26.8
				50	24	20.4	26.5
				50	49	20.2	26.6
				100	0	20.4	26.7

7.2.2. LTE BAND 4

OUTPUT POWER FOR LTE BAND 4 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	19957	1710.7	QPSK	1	0	23.2	26.8
				1	2	23.1	26.7
				1	5	23.2	26.8
				3	0	23.2	27.1
				3	1	23.2	27.0
				3	2	23.2	27.0
			16QAM	6	0	22.3	27.2
				1	0	22.2	26.8
				1	2	22.2	26.8
				1	5	22.2	26.8
				3	0	22.2	26.9
				3	1	22.2	26.9
				3	2	22.2	26.9
				6	0	21.3	27.1
1.4	20175	1732.5	QPSK	1	0	23.3	27.8
				1	2	23.1	27.7
				1	5	23.2	27.8
				3	0	23.2	27.8
				3	1	23.2	27.9
				3	2	23.2	27.9
			16QAM	6	0	22.2	27.9
				1	0	22.4	27.7
				1	2	22.3	27.7
				1	5	22.4	27.7
				3	0	22.3	27.8
				3	1	22.3	27.8
				3	2	22.2	27.8
				6	0	21.3	27.8
1.4	20393	1754.3	QPSK	1	0	23.0	27.4
				1	2	23.0	27.3
				1	5	23.0	27.4
				3	0	23.0	27.6
				3	1	23.1	27.5
				3	2	23.1	27.5
			16QAM	6	0	22.1	27.4
				1	0	22.0	27.4
				1	2	22.0	27.3
				1	5	22.1	27.4
				3	0	22.0	27.5
				3	1	22.1	27.4
				3	2	22.1	27.4
				6	0	21.2	27.4

OUTPUT POWER FOR LTE BAND 4 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	19965	1711.5	QPSK	1	0	23.2	26.9
				1	7	23.1	26.7
				1	14	23.1	26.7
				8	0	22.2	27.0
				8	4	22.3	26.8
				8	7	22.2	26.9
				15	0	22.3	27.4
			16QAM	1	0	22.1	26.9
				1	7	22.0	26.7
				1	14	22.1	26.7
				8	0	21.3	26.8
				8	4	21.3	26.8
				8	7	21.3	26.8
				15	0	21.3	27.2
3.0	20175	1732.5	QPSK	1	0	23.1	27.8
				1	7	23.1	27.6
				1	14	23.1	27.8
				8	0	22.2	27.4
				8	4	22.2	27.3
				8	7	22.2	27.4
				15	0	22.2	28.1
			16QAM	1	0	22.4	27.8
				1	7	22.3	27.7
				1	14	22.4	27.9
				8	0	21.4	27.3
				8	4	21.3	27.1
				8	7	21.3	27.2
				15	0	21.3	28.0
3.0	20385	1753.5	QPSK	1	0	23.0	27.5
				1	7	22.9	27.3
				1	14	23.0	27.4
				8	0	22.1	27.2
				8	4	22.1	27.0
				8	7	22.0	27.1
				15	0	22.0	27.2
			16QAM	1	0	22.2	27.5
				1	7	22.2	27.4
				1	14	22.2	27.4
				8	0	21.2	26.9
				8	4	21.1	26.8
				8	7	21.2	26.9
				15	0	21.1	27.2

OUTPUT POWER FOR LTE BAND 4 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	19975	1712.5	QPSK	1	0	23.3	26.9
				1	12	23.3	26.6
				1	24	23.3	26.9
				12	0	22.3	26.9
				12	6	22.2	26.8
				12	11	22.2	26.8
				25	0	22.2	27.3
			16QAM	1	0	22.0	26.9
				1	12	22.0	26.6
				1	24	22.0	26.7
				12	0	21.3	26.9
				12	6	21.2	26.7
				12	11	21.2	26.8
				25	0	21.3	27.2
5.0	20175	1732.5	QPSK	1	0	23.1	27.8
				1	12	23.1	27.7
				1	24	23.1	27.7
				12	0	22.2	27.2
				12	6	22.2	27.2
				12	11	22.2	27.2
				25	0	22.2	27.8
			16QAM	1	0	22.3	27.5
				1	12	22.3	27.5
				1	24	22.3	27.5
				12	0	21.1	27.2
				12	6	21.1	27.0
				12	11	21.1	27.1
				25	0	21.2	27.8
5.0	20375	1752.5	QPSK	1	0	23.1	27.6
				1	12	23.0	27.4
				1	24	23.1	27.4
				12	0	22.0	27.1
				12	6	22.1	26.9
				12	11	22.1	27.0
				25	0	22.0	27.5
			16QAM	1	0	21.8	27.2
				1	12	21.8	27.1
				1	24	21.8	27.4
				12	0	21.1	26.7
				12	6	21.1	26.7
				12	11	21.1	26.7
				25	0	21.1	27.3

OUTPUT POWER FOR LTE BAND 4 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20000	1715.0	QPSK	1	0	23.2	26.9
				1	24	23.2	26.6
				1	49	23.1	26.9
				25	0	22.3	26.9
				25	12	22.3	26.8
				25	24	22.3	26.9
				50	0	22.2	27.4
			16QAM	1	0	22.4	26.9
				1	24	22.3	26.7
				1	49	22.4	27.0
				25	0	21.4	26.8
				25	12	21.4	26.8
				25	24	21.4	26.9
				50	0	21.3	27.4
10.0	20175	1732.5	QPSK	1	0	23.2	27.7
				1	24	23.1	27.6
				1	49	23.1	27.7
				25	0	22.3	27.4
				25	12	22.2	27.2
				25	24	22.2	27.3
				50	0	22.2	27.7
			16QAM	1	0	22.4	27.4
				1	24	22.4	27.5
				1	49	22.3	27.5
				25	0	21.4	27.4
				25	12	21.3	27.3
				25	24	21.4	27.3
				50	0	21.2	27.6
10.0	20350	1750.0	QPSK	1	0	23.0	27.4
				1	24	22.9	27.3
				1	49	22.9	27.4
				25	0	22.1	27.0
				25	12	22.0	26.9
				25	24	22.0	27.1
				50	0	22.1	27.5
			16QAM	1	0	22.3	27.6
				1	24	22.2	27.4
				1	49	22.2	27.5
				25	0	21.2	27.0
				25	12	21.2	26.8
				25	24	21.2	27.0
				50	0	21.1	27.6

OUTPUT POWER FOR LTE BAND 4 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20025	1717.5	QPSK	1	0	23.3	26.8
				1	37	23.3	26.7
				1	74	23.2	27.2
				36	0	22.4	26.9
				36	16	22.3	26.8
				36	35	22.3	27.1
				75	0	22.3	27.5
			16-QAM	1	0	22.2	26.9
				1	37	22.2	26.8
				1	74	22.2	27.2
				36	0	21.4	26.8
				36	16	21.3	26.8
				36	35	21.4	27.0
				75	0	21.3	27.4
15.0	20175	1732.5	QPSK	1	0	23.3	27.5
				1	37	23.2	27.6
				1	74	23.1	27.6
				36	0	22.3	27.5
				36	16	22.2	27.3
				36	35	22.2	27.3
				75	0	22.3	27.9
			16-QAM	1	0	22.3	27.5
				1	37	22.2	27.8
				1	74	22.1	27.8
				36	0	21.4	27.4
				36	16	21.3	27.2
				36	35	21.3	27.1
				75	0	21.3	27.8
15.0	20325	1747.5	QPSK	1	0	23.2	27.6
				1	37	23.1	27.3
				1	74	23.0	27.3
				36	0	22.2	27.2
				36	16	22.1	27.0
				36	35	22.1	27.0
				75	0	22.1	27.6
			16-QAM	1	0	22.1	27.7
				1	37	22.0	27.5
				1	74	22.0	27.4
				36	0	21.2	27.0
				36	16	21.1	26.8
				36	35	21.1	26.8
				75	0	21.2	27.6

OUTPUT POWER FOR LTE BAND 4 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20050	1720.0	QPSK	1	0	23.3	27.2
				1	49	23.3	26.9
				1	99	23.3	27.6
				50	0	22.3	26.8
				50	24	22.3	27.0
				50	49	22.3	27.2
				100	0	22.3	27.3
			16-QAM	1	0	22.5	26.7
				1	49	22.4	26.9
				1	99	22.4	27.6
				50	0	21.3	27.1
				50	24	21.3	27.0
				50	49	21.3	27.2
				100	0	21.4	27.3
20.0	20175	1732.5	QPSK	1	0	23.4	27.2
				1	49	23.3	27.9
				1	99	23.2	27.9
				50	0	22.3	27.5
				50	24	22.3	27.4
				50	49	22.3	27.5
				100	0	22.3	27.8
			16-QAM	1	0	22.5	27.2
				1	49	22.4	27.5
				1	99	22.3	27.4
				50	0	21.3	27.5
				50	24	21.3	27.3
				50	49	21.2	27.2
				100	0	21.4	28.0
20.0	20300	1745.0	QPSK	1	0	23.3	27.7
				1	49	23.2	27.7
				1	99	23.1	27.3
				50	0	22.2	27.4
				50	24	22.1	27.0
				50	49	22.1	27.3
				100	0	22.1	27.6
			16-QAM	1	0	22.4	27.7
				1	49	22.3	27.2
				1	99	22.2	27.3
				50	0	21.2	27.3
				50	24	21.1	26.9
				50	49	21.1	27.0
				100	0	21.2	27.7

7.2.3. LTE BAND 5

OUTPUT POWER FOR LTE BAND 5 (1.4MHZz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	20407	824.7	QPSK	1	0	23.7	28.5
				1	2	23.6	28.2
				1	5	23.6	28.1
				3	0	23.7	28.7
				3	1	23.7	28.6
				3	2	23.7	28.3
				6	0	22.8	28.8
			16QAM	1	0	23.0	28.4
				1	2	22.9	28.2
				1	5	22.9	28.3
				3	0	22.8	28.5
				3	1	22.8	28.7
				3	2	22.8	28.6
				6	0	21.8	28.7
1.4	20525	836.5	QPSK	1	0	23.6	28.3
				1	2	23.6	28.1
				1	5	23.6	28.3
				3	0	23.7	28.6
				3	1	23.6	28.4
				3	2	23.7	28.5
				6	0	22.7	28.2
			16QAM	1	0	22.9	28.4
				1	2	22.9	28.2
				1	5	22.9	28.3
				3	0	22.8	28.7
				3	1	22.7	28.6
				3	2	22.8	28.6
				6	0	21.7	27.9
1.4	20643	848.3	QPSK	1	0	23.5	28.0
				1	2	23.5	28.1
				1	5	23.6	28.1
				3	0	23.6	28.2
				3	1	23.5	28.2
				3	2	23.5	28.2
				6	0	22.6	28.0
			16QAM	1	0	22.6	28.2
				1	2	22.6	28.1
				1	5	22.6	28.1
				3	0	22.6	28.2
				3	1	22.6	28.2
				3	2	22.6	28.2
				6	0	21.7	27.9

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	20415	825.5	QPSK	1	0	23.6	28.2
				1	7	23.6	28.2
				1	14	23.6	28.4
				8	0	22.8	28.0
				8	4	22.7	27.9
				8	7	22.7	28.0
				15	0	22.7	28.5
			16QAM	1	0	23.0	28.4
				1	7	22.9	28.2
				1	14	22.9	28.2
				8	0	21.8	27.9
				8	4	21.8	27.8
				8	7	21.8	28.0
				15	0	21.7	28.4
3.0	20525	836.5	QPSK	1	0	23.6	28.3
				1	7	23.5	28.1
				1	14	23.6	28.3
				8	0	22.7	27.9
				8	4	22.7	27.7
				8	7	22.6	27.8
				15	0	22.7	28.2
			16QAM	1	0	22.9	28.3
				1	7	22.8	28.2
				1	14	22.9	28.3
				8	0	21.8	27.7
				8	4	21.7	27.6
				8	7	21.8	27.7
				15	0	21.7	28.3
3.0	20635	847.5	QPSK	1	0	23.6	28.2
				1	7	23.5	28.0
				1	14	23.6	28.1
				8	0	22.6	27.6
				8	4	22.6	27.5
				8	7	22.6	27.6
				15	0	22.6	28.2
			16QAM	1	0	22.6	28.0
				1	7	22.6	27.8
				1	14	22.7	28.1
				8	0	21.7	27.4
				8	4	21.6	27.3
				8	7	21.6	27.3
				15	0	21.6	27.8

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20425	826.5	QPSK	1	0	23.7	28.2
				1	12	23.6	28.2
				1	24	23.6	28.4
				12	0	22.7	27.9
				12	6	22.6	27.7
				12	11	22.6	27.7
				25	0	22.7	28.5
			16QAM	1	0	22.8	28.2
				1	12	22.8	28.1
				1	24	22.6	28.0
				12	0	21.6	27.8
				12	6	21.5	27.6
				12	11	21.5	27.7
				25	0	21.7	28.0
5.0	20525	836.5	QPSK	1	0	23.6	28.3
				1	12	23.5	28.0
				1	24	23.6	28.3
				12	0	22.7	27.7
				12	6	22.6	27.5
				12	11	22.7	27.6
				25	0	22.7	28.2
			16QAM	1	0	22.8	28.0
				1	12	22.7	27.9
				1	24	22.7	28.0
				12	0	21.5	27.6
				12	6	21.5	27.4
				12	11	21.5	27.4
				25	0	21.7	28.1
5.0	20625	846.5	QPSK	1	0	23.6	28.3
				1	12	23.6	28.0
				1	24	23.6	28.1
				12	0	22.6	27.8
				12	6	22.6	27.6
				12	11	22.6	27.7
				25	0	22.5	28.2
			16QAM	1	0	22.4	28.0
				1	12	22.3	27.6
				1	24	22.3	27.9
				12	0	21.6	27.3
				12	6	21.6	27.3
				12	11	21.6	27.3
				25	0	21.6	27.8

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20450	829.0	QPSK	1	0	23.6	28.0
				1	24	23.6	28.3
				1	49	23.6	28.0
				25	0	22.7	27.8
				25	12	22.6	27.8
				25	24	22.7	27.8
				50	0	22.7	27.7
			16QAM	1	0	22.8	28.1
				1	24	22.9	28.4
				1	49	22.8	28.1
				25	0	21.8	27.8
				25	12	21.8	27.8
				25	24	21.8	27.8
				50	0	21.7	28.5
10.0	20525	836.5	QPSK	1	0	23.6	28.2
				1	24	23.5	28.0
				1	49	23.5	28.0
				25	0	22.7	27.9
				25	12	22.7	27.7
				25	24	22.6	27.7
				50	0	22.7	27.7
			16QAM	1	0	22.8	28.2
				1	24	22.8	28.2
				1	49	22.8	28.1
				25	0	21.9	27.7
				25	12	21.8	27.5
				25	24	21.8	27.7
				50	0	21.6	28.4
10.0	20600	844.0	QPSK	1	0	23.5	27.9
				1	24	23.5	28.0
				1	49	23.4	27.9
				25	0	22.6	27.7
				25	12	22.6	27.6
				25	24	22.6	27.7
				50	0	22.6	28.5
			16QAM	1	0	22.7	28.1
				1	24	22.7	28.2
				1	49	22.7	28.0
				25	0	21.7	27.8
				25	12	21.7	27.6
				25	24	21.7	27.5
				50	0	21.5	27.8

7.2.4. LTE BAND 7

OUTPUT POWER FOR LTE BAND 7 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20775	2502.5	QPSK	1	0	19.0	23.8
				1	12	19.0	23.7
				1	24	19.0	23.8
				12	0	18.0	23.2
				12	6	18.1	23.2
				12	11	18.1	23.2
				25	0	18.1	23.8
			16QAM	1	0	18.1	23.6
				1	12	18.0	23.6
				1	24	18.0	23.5
				12	0	16.9	23.2
				12	6	17.0	23.2
				12	11	17.0	23.1
				25	0	17.1	23.7
5.0	21100	2535.0	QPSK	1	0	18.9	22.5
				1	12	18.8	22.4
				1	24	18.8	22.6
				12	0	17.8	22.5
				12	6	17.9	22.5
				12	11	17.8	22.6
				25	0	17.9	23.0
			16QAM	1	0	18.0	22.5
				1	12	17.9	22.5
				1	24	17.9	22.6
				12	0	16.7	22.5
				12	6	16.7	22.5
				12	11	16.7	22.6
				25	0	16.9	23.0
5.0	21425	2567.5	QPSK	1	0	18.9	23.6
				1	12	18.9	23.3
				1	24	18.9	23.4
				12	0	18.0	23.2
				12	6	17.9	22.9
				12	11	17.9	22.9
				25	0	17.9	23.4
			16QAM	1	0	17.8	23.4
				1	12	17.8	23.3
				1	24	17.8	23.4
				12	0	17.0	23.0
				12	6	17.0	22.9
				12	11	17.0	22.9
				25	0	17.0	23.4

OUTPUT POWER FOR LTE BAND 7 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20800	2505.0	QPSK	1	0	19.0	23.7
				1	24	19.0	23.6
				1	49	19.0	22.8
				25	0	18.1	23.3
				25	12	18.1	23.2
				25	24	18.1	23.3
				50	0	18.1	23.8
			16QAM	1	0	18.2	23.7
				1	24	18.3	23.7
				1	49	18.1	22.7
				25	0	17.3	23.4
				25	12	17.2	23.3
				25	24	17.2	23.2
				50	0	17.2	23.8
10.0	21100	2535.0	QPSK	1	0	18.9	22.6
				1	24	18.8	22.5
				1	49	18.8	22.8
				25	0	17.9	22.6
				25	12	17.9	22.6
				25	24	17.8	22.7
				50	0	17.9	23.0
			16QAM	1	0	18.0	22.6
				1	24	17.9	22.5
				1	49	18.0	22.8
				25	0	17.0	22.6
				25	12	17.0	22.6
				25	24	17.0	22.7
				50	0	16.9	22.9
10.0	21400	2565.0	QPSK	1	0	19.0	23.6
				1	24	18.8	23.5
				1	49	18.9	23.4
				25	0	17.9	23.2
				25	12	18.0	23.0
				25	24	17.9	23.1
				50	0	18.0	23.7
			16QAM	1	0	17.8	23.5
				1	24	17.7	23.2
				1	49	17.7	23.2
				25	0	17.0	23.0
				25	12	17.0	22.9
				25	24	17.0	23.0
				50	0	17.0	23.6

OUTPUT POWER FOR LTE BAND 7 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20825	2507.5	QPSK	1	0	19.0	23.7
				1	37	19.0	23.5
				1	74	19.0	23.3
				36	0	18.2	23.4
				36	16	18.2	23.2
				36	35	18.0	23.7
				75	0	18.1	24.0
			16-QAM	1	0	18.1	24.0
				1	37	18.1	23.7
				1	74	17.9	23.5
				36	0	17.2	23.3
				36	16	17.2	23.1
				36	35	17.2	23.4
				75	0	17.2	23.9
15.0	21100	2535.0	QPSK	1	0	18.9	22.7
				1	37	18.8	22.5
				1	74	18.8	22.8
				36	0	18.0	22.7
				36	16	18.0	22.6
				36	35	18.0	22.7
				75	0	18.0	23.3
			16-QAM	1	0	17.7	22.7
				1	37	17.7	22.5
				1	74	17.6	22.8
				36	0	17.0	22.7
				36	16	17.0	22.6
				36	35	17.0	22.7
				75	0	17.0	23.2
15.0	21375	2562.5	QPSK	1	0	19.0	23.0
				1	37	18.9	23.5
				1	74	18.9	23.3
				36	0	18.2	23.4
				36	16	18.0	23.1
				36	35	18.0	23.1
				75	0	18.0	23.6
			16-QAM	1	0	17.9	23.1
				1	37	17.7	23.2
				1	74	17.7	23.2
				36	0	17.2	23.3
				36	16	17.1	23.1
				36	35	17.1	23.1
				75	0	17.2	23.6

OUTPUT POWER FOR LTE BAND 7 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20850	2510.0	QPSK	1	0	19.0	23.5
				1	49	19.0	23.3
				1	99	18.8	23.2
				50	0	18.1	23.3
				50	24	17.9	22.9
				50	49	17.9	23.0
				100	0	17.9	23.9
			16-QAM	1	0	17.7	23.5
				1	49	17.7	22.4
				1	99	17.6	23.1
				50	0	17.1	23.1
				50	24	17.0	23.0
				50	49	16.9	23.0
				100	0	17.1	23.5
20.0	21100	2535.0	QPSK	1	0	18.9	22.7
				1	49	18.9	22.5
				1	99	18.9	23.8
				50	0	17.9	22.5
				50	24	17.8	22.5
				50	49	17.9	22.6
				100	0	17.8	22.9
			16-QAM	1	0	18.0	22.7
				1	49	17.9	22.4
				1	99	18.0	22.6
				50	0	16.9	22.6
				50	24	16.8	22.5
				50	49	16.8	22.6
				100	0	17.0	22.8
20.0	21350	2560.0	QPSK	1	0	18.9	23.7
				1	49	19.0	23.2
				1	99	18.9	23.0
				50	0	18.0	22.9
				50	24	17.9	23.2
				50	49	17.9	23.1
				100	0	17.8	23.3
			16-QAM	1	0	17.7	23.4
				1	49	17.7	23.3
				1	99	17.7	23.1
				50	0	17.0	22.9
				50	24	16.9	23.1
				50	49	16.9	23.0
				100	0	17.0	23.2

7.2.5. LTE BAND 12

OUTPUT POWER FOR LTE BAND 12 (1.4MHZz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	23017	699.7	QPSK	1	0	23.7	28.3
				1	2	23.6	28.1
				1	5	23.7	28.3
				3	0	23.6	28.5
				3	1	23.7	28.4
				3	2	23.7	28.5
				6	0	22.7	28.8
			16QAM	1	0	23.0	28.3
				1	2	22.9	28.2
				1	5	22.9	28.4
				3	0	22.9	28.5
				3	1	22.8	28.5
				3	2	22.8	28.5
				6	0	21.8	28.7
1.4	23095	707.5	QPSK	1	0	23.6	28.4
				1	2	23.5	28.3
				1	5	23.6	28.3
				3	0	23.7	28.4
				3	1	23.6	28.6
				3	2	23.6	28.6
				6	0	22.7	28.2
			16QAM	1	0	22.8	28.4
				1	2	22.7	28.3
				1	5	22.8	28.4
				3	0	22.7	28.3
				3	1	22.7	28.6
				3	2	22.7	28.6
				6	0	21.6	28.0
1.4	23173	715.3	QPSK	1	0	23.6	28.5
				1	2	23.5	28.4
				1	5	23.6	28.6
				3	0	23.6	28.7
				3	1	23.6	28.7
				3	2	23.6	28.7
				6	0	22.6	28.1
			16QAM	1	0	22.6	28.5
				1	2	22.6	28.6
				1	5	22.6	28.2
				3	0	22.6	28.3
				3	1	22.6	28.5
				3	2	22.6	28.5
				6	0	21.7	28.6

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	23025	700.5	QPSK	1	0	23.6	28.2
				1	7	23.6	28.1
				1	14	23.6	28.4
				8	0	22.7	27.8
				8	4	22.7	27.7
				8	7	22.7	27.8
				15	0	22.7	28.5
			16QAM	1	0	22.9	28.4
				1	7	22.8	28.2
				1	14	22.9	28.6
				8	0	21.7	27.7
				8	4	21.7	27.5
				8	7	21.8	27.7
				15	0	21.7	28.3
3.0	23095	707.5	QPSK	1	0	23.6	28.0
				1	7	23.5	28.3
				1	14	23.6	28.4
				8	0	22.7	27.9
				8	4	22.6	27.7
				8	7	22.6	27.7
				15	0	22.6	28.1
			16QAM	1	0	22.5	28.2
				1	7	22.4	27.9
				1	14	22.4	27.9
				8	0	21.7	27.6
				8	4	21.7	27.6
				8	7	21.7	27.4
				15	0	21.7	28.1
3.0	23165	714.5	QPSK	1	0	23.6	28.4
				1	7	23.5	28.3
				1	14	23.6	28.5
				8	0	22.6	28.0
				8	4	22.6	27.9
				8	7	22.6	28.0
				15	0	22.7	28.1
			16QAM	1	0	22.9	28.6
				1	7	22.8	28.5
				1	14	22.9	28.6
				8	0	21.7	27.9
				8	4	21.7	27.8
				8	7	21.7	27.8
				15	0	21.7	28.4

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23035	701.5	QPSK	1	0	23.6	28.3
				1	12	23.6	28.3
				1	24	23.6	28.6
				12	0	22.7	27.7
				12	6	22.7	27.8
				12	11	22.7	27.8
				25	0	22.7	27.9
			16QAM	1	0	22.8	28.1
				1	12	22.8	28.1
				1	24	22.8	28.3
				12	0	21.5	27.5
				12	6	21.5	27.5
				12	11	21.5	27.6
				25	0	21.6	27.7
5.0	23095	707.5	QPSK	1	0	23.6	28.5
				1	12	23.5	28.2
				1	24	23.6	28.3
				12	0	22.7	27.8
				12	6	22.6	27.7
				12	11	22.7	27.7
				25	0	22.7	27.9
			16QAM	1	0	22.7	28.3
				1	12	22.7	28.1
				1	24	22.7	28.1
				12	0	21.5	27.8
				12	6	21.5	27.7
				12	11	21.5	27.6
				25	0	21.6	27.9
5.0	23155	713.5	QPSK	1	0	23.6	28.3
				1	12	23.5	28.3
				1	24	23.6	28.6
				12	0	22.6	27.7
				12	6	22.6	27.7
				12	11	22.6	27.7
				25	0	22.6	28.0
			16QAM	1	0	22.7	28.1
				1	12	22.7	28.1
				1	24	22.7	28.3
				12	0	21.5	27.7
				12	6	21.5	27.6
				12	11	21.4	27.6
				25	0	21.6	28.0

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23060	704.0	QPSK	1	0	23.6	28.1
				1	24	23.6	28.4
				1	49	23.6	28.3
				25	0	22.7	27.8
				25	12	22.7	28.0
				25	24	22.7	28.0
				50	0	22.6	28.5
			16QAM	1	0	22.5	27.8
				1	24	22.4	28.1
				1	49	22.4	27.9
				25	0	21.7	27.8
				25	12	21.6	27.7
				25	24	21.7	27.8
				50	0	21.6	28.1
10.0	23095	707.5	QPSK	1	0	23.6	28.4
				1	24	23.5	28.3
				1	49	23.5	28.2
				25	0	22.6	27.9
				25	12	22.7	27.9
				25	24	22.7	27.9
				50	0	22.6	28.6
			16QAM	1	0	22.8	28.2
				1	24	22.8	28.4
				1	49	22.8	28.2
				25	0	21.8	27.9
				25	12	21.8	27.8
				25	24	21.8	27.7
				50	0	21.6	28.5
10.0	23130	711.0	QPSK	1	0	23.6	28.3
				1	24	23.5	28.1
				1	49	23.5	28.3
				25	0	22.7	27.9
				25	12	22.7	27.8
				25	24	22.6	27.9
				50	0	22.6	27.9
			16QAM	1	0	22.8	28.4
				1	24	22.7	28.2
				1	49	22.8	28.5
				25	0	21.7	27.8
				25	12	21.8	27.8
				25	24	21.7	27.9
				50	0	21.6	28.2

7.2.6. LTE BAND 17

OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23755	706.5	QPSK	1	0	23.6	28.3
				1	12	23.6	28.4
				1	24	23.6	28.3
				12	0	22.6	28.0
				12	6	22.5	27.9
				12	11	22.6	28.0
				25	0	22.6	28.4
			16QAM	1	0	22.4	28.3
				1	12	22.3	27.9
				1	24	22.3	28.2
				12	0	21.6	27.7
				12	6	21.6	27.7
				12	11	21.6	27.6
				25	0	21.6	27.8
5.0	23790	710.0	QPSK	1	0	23.5	28.4
				1	12	23.4	28.1
				1	24	23.5	27.8
				12	0	22.6	27.7
				12	6	22.6	27.6
				12	11	22.6	27.6
				25	0	22.6	27.7
			16QAM	1	0	22.7	28.0
				1	12	22.6	28.0
				1	24	22.6	27.9
				12	0	21.4	27.7
				12	6	21.4	27.5
				12	11	21.4	27.6
				25	0	21.6	28.3
5.0	23825	713.5	QPSK	1	0	23.5	27.9
				1	12	23.4	28.1
				1	24	23.5	27.8
				12	0	22.6	27.8
				12	6	22.6	27.7
				12	11	22.6	27.7
				25	0	22.5	27.8
			16QAM	1	0	22.7	27.9
				1	12	22.7	28.1
				1	24	22.7	27.8
				12	0	21.5	27.8
				12	6	21.4	27.6
				12	11	21.5	27.7
				25	0	21.6	27.7

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23780	709.0	QPSK	1	0	23.5	28.2
				1	24	23.4	28.2
				1	49	23.5	28.1
				25	0	22.6	28.0
				25	12	22.6	27.8
				25	24	22.6	27.9
				50	0	22.6	28.1
			16QAM	1	0	22.8	28.3
				1	24	22.7	28.3
				1	49	22.7	28.2
				25	0	21.7	27.8
				25	12	21.7	27.7
				25	24	21.7	27.8
				50	0	21.6	28.1
10.0	23790	710.0	QPSK	1	0	23.5	28.3
				1	24	23.4	28.0
				1	49	23.4	28.0
				25	0	22.6	27.9
				25	12	22.6	27.8
				25	24	22.6	27.8
				50	0	22.6	28.5
			16QAM	1	0	22.4	28.0
				1	24	22.3	27.9
				1	49	22.3	28.0
				25	0	21.7	27.7
				25	12	21.6	27.7
				25	24	21.6	27.8
				50	0	21.6	28.2
10.0	23800	711.0	QPSK	1	0	23.5	28.3
				1	24	23.5	28.2
				1	49	23.5	28.1
				25	0	22.6	27.8
				25	12	22.5	27.7
				25	24	22.6	27.8
				50	0	22.6	28.6
			16QAM	1	0	22.6	28.2
				1	24	22.6	28.0
				1	49	22.6	28.1
				25	0	21.6	27.6
				25	12	21.6	27.6
				25	24	21.6	27.7
				50	0	21.5	28.3

7.2.7. LTE BAND 25

OUTPUT POWER FOR LTE BAND 25 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26047	1850.7	QPSK	1	0	21.8	26.6
				1	2	21.7	26.3
				1	5	21.7	26.5
				3	0	21.8	26.6
				3	1	21.8	26.6
				3	2	21.8	26.7
				6	0	20.8	26.8
			16QAM	1	0	21.1	26.7
				1	2	21.0	26.5
				1	5	21.0	26.7
				3	0	21.0	26.6
				3	1	20.9	26.7
				3	2	20.9	26.7
				6	0	19.9	26.3
1.4	26365	1882.5	QPSK	1	0	21.7	26.0
				1	2	21.6	25.9
				1	5	21.6	26.0
				3	0	21.8	26.2
				3	1	21.8	26.2
				3	2	21.8	26.1
				6	0	20.7	26.2
			16QAM	1	0	20.9	26.0
				1	2	20.9	25.9
				1	5	20.8	26.0
				3	0	20.9	26.1
				3	1	20.8	26.1
				3	2	20.8	26.2
				6	0	19.8	26.1
1.4	26683	1914.3	QPSK	1	0	21.7	25.5
				1	2	21.6	25.3
				1	5	21.6	26.5
				3	0	21.7	25.7
				3	1	21.7	25.6
				3	2	21.7	25.5
				6	0	20.7	25.9
			16QAM	1	0	20.9	25.6
				1	2	20.8	25.5
				1	5	21.0	26.6
				3	0	20.8	26.6
				3	1	20.8	26.8
				3	2	20.7	26.7
				6	0	19.7	26.8

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26055	1851.5	QPSK	1	0	21.7	26.5
				1	7	21.7	26.3
				1	14	21.7	25.6
				8	0	20.8	26.0
				8	4	20.8	26.0
				8	7	20.8	26.1
				15	0	20.8	26.3
			16QAM	1	0	21.0	26.1
				1	7	20.9	26.2
				1	14	21.0	26.4
				8	0	19.9	26.0
				8	4	19.9	26.0
				8	7	20.0	26.1
				15	0	19.9	26.4
3.0	26365	1882.5	QPSK	1	0	21.7	25.9
				1	7	21.5	25.9
				1	14	21.6	26.2
				8	0	20.8	26.0
				8	4	20.8	26.0
				8	7	20.7	26.0
				15	0	20.7	25.9
			16QAM	1	0	21.0	25.9
				1	7	20.8	25.9
				1	14	20.9	26.2
				8	0	19.9	25.9
				8	4	19.9	26.0
				8	7	19.8	26.0
				15	0	19.8	26.3
3.0	26675	1913.5	QPSK	1	0	21.5	26.1
				1	7	21.5	25.6
				1	14	21.6	25.3
				8	0	20.7	25.9
				8	4	20.7	25.7
				8	7	20.7	25.6
				15	0	20.7	26.1
			16QAM	1	0	20.8	26.1
				1	7	20.8	25.6
				1	14	20.9	25.8
				8	0	19.8	25.9
				8	4	19.8	25.8
				8	7	19.8	25.6
				15	0	19.8	26.0

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26065	1852.5	QPSK	1	0	21.7	26.2
				1	12	21.7	26.3
				1	24	21.7	25.6
				12	0	20.8	25.9
				12	6	20.8	25.9
				12	11	20.8	25.9
				25	0	20.8	26.5
			16QAM	1	0	20.9	26.3
				1	12	20.9	25.1
				1	24	20.9	25.6
				12	0	19.7	25.9
				12	6	19.7	25.8
				12	11	19.7	25.5
				25	0	19.8	26.3
5.0	26365	1882.5	QPSK	1	0	21.7	25.7
				1	12	21.5	25.9
				1	24	21.6	26.3
				12	0	20.8	25.9
				12	6	20.8	25.9
				12	11	20.6	25.9
				25	0	20.8	26.3
			16QAM	1	0	20.8	25.7
				1	12	20.7	26.0
				1	24	20.7	26.3
				12	0	19.7	25.8
				12	6	19.6	25.8
				12	11	19.5	25.9
				25	0	19.8	26.1
5.0	26665	1912.5	QPSK	1	0	21.5	26.0
				1	12	21.6	25.9
				1	24	21.6	26.1
				12	0	20.6	26.0
				12	6	20.7	25.9
				12	11	20.7	25.7
				25	0	20.7	26.2
			16QAM	1	0	20.7	26.3
				1	12	20.8	26.0
				1	24	20.8	25.3
				12	0	19.4	25.9
				12	6	19.6	25.8
				12	11	19.5	25.7
				25	0	19.7	26.0

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26090	1855.0	QPSK	1	0	21.7	25.6
				1	24	21.6	25.9
				1	49	21.6	26.3
				25	0	20.9	26.2
				25	12	20.9	25.8
				25	24	20.8	26.0
				50	0	20.9	26.4
			16QAM	1	0	20.7	25.7
				1	24	20.6	25.6
				1	49	20.5	26.3
				25	0	19.9	26.0
				25	12	19.9	25.7
				25	24	19.9	26.0
				50	0	19.8	26.0
10.0	26365	1882.5	QPSK	1	0	21.7	25.5
				1	24	21.6	25.9
				1	49	21.6	25.9
				25	0	20.8	25.8
				25	12	20.7	26.0
				25	24	20.6	26.1
				50	0	20.8	26.2
			16QAM	1	0	20.9	25.5
				1	24	20.9	25.9
				1	49	20.8	26.3
				25	0	19.9	25.7
				25	12	19.9	26.0
				25	24	19.8	26.1
				50	0	19.8	26.4
10.0	26640	1910.0	QPSK	1	0	21.5	26.2
				1	24	21.4	26.4
				1	49	21.6	25.3
				25	0	20.6	26.1
				25	12	20.6	25.9
				25	24	20.6	25.9
				50	0	20.6	25.9
			16QAM	1	0	20.4	26.1
				1	24	20.3	26.1
				1	49	20.5	25.3
				25	0	19.7	26.0
				25	12	19.6	25.8
				25	24	19.6	25.9
				50	0	19.6	26.3

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	26115	1857.5	QPSK	1	0	21.8	26.4
				1	37	21.7	26.0
				1	74	21.7	26.4
				36	0	20.9	26.2
				36	16	20.8	26.0
				36	35	20.8	26.1
				75	0	20.8	26.2
			16-QAM	1	0	20.8	26.6
				1	37	20.7	26.0
				1	74	20.8	26.1
				36	0	19.9	26.1
				36	16	19.9	26.0
				36	35	19.9	26.2
				75	0	19.9	26.6
15.0	26365	1882.5	QPSK	1	0	21.8	25.4
				1	37	21.7	25.9
				1	74	21.6	26.4
				36	0	20.9	25.8
				36	16	20.8	25.9
				36	35	20.7	26.1
				75	0	20.9	26.8
			16-QAM	1	0	20.8	25.4
				1	37	20.7	26.0
				1	74	20.6	26.0
				36	0	19.9	25.7
				36	16	19.9	25.9
				36	35	19.7	26.0
				75	0	19.9	26.4
15.0	26615	1907.5	QPSK	1	0	21.8	25.7
				1	37	21.6	26.2
				1	74	21.7	25.7
				36	0	20.7	26.1
				36	16	20.6	26.0
				36	35	20.7	26.0
				75	0	20.8	26.4
			16-QAM	1	0	20.8	25.7
				1	37	20.6	26.4
				1	74	20.6	25.7
				36	0	19.8	26.1
				36	16	19.7	26.0
				36	35	19.6	25.9
				75	0	19.8	26.5

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	26140	1860.0	QPSK	1	0	21.9	26.3
				1	49	21.8	26.4
				1	99	21.8	26.0
				50	0	20.9	25.9
				50	24	20.9	26.2
				50	49	20.9	26.3
				100	0	20.9	26.8
			16-QAM	1	0	21.1	26.4
				1	49	20.9	26.3
				1	99	20.9	26.1
				50	0	19.9	25.9
				50	24	19.9	26.2
				50	49	19.8	26.3
				100	0	20.0	26.3
20.0	26365	1882.5	QPSK	1	0	21.8	25.4
				1	49	21.8	25.9
				1	99	21.7	26.7
				50	0	20.9	25.8
				50	24	20.8	26.0
				50	49	20.7	26.2
				100	0	20.8	26.4
			16-QAM	1	0	20.6	25.4
				1	49	20.5	25.9
				1	99	20.5	26.6
				50	0	19.8	25.7
				50	24	19.9	26.0
				50	49	19.8	26.3
				100	0	19.9	26.6
20.0	26590	1905.0	QPSK	1	0	21.9	26.3
				1	49	21.8	26.0
				1	99	21.8	26.7
				50	0	20.9	26.3
				50	24	20.7	26.1
				50	49	20.7	26.1
				100	0	20.7	26.4
			16-QAM	1	0	21.0	26.3
				1	49	20.8	26.0
				1	99	20.8	25.4
				50	0	19.9	26.1
				50	24	19.7	26.1
				50	49	19.6	26.1
				100	0	19.8	26.5

7.2.8. LTE BAND 26

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26697	814.7	QPSK	1	0	23.7	28.3
				1	2	23.5	28.1
				1	5	23.6	28.3
				3	0	23.4	28.4
				3	1	23.6	28.5
				3	2	23.6	28.5
			16QAM	6	0	22.6	28.5
				1	0	22.8	28.3
				1	2	22.8	28.2
				1	5	22.8	28.3
				3	0	22.7	28.3
				3	1	22.7	28.3
				3	2	22.7	28.3
				6	0	21.6	28.4
1.4	26740	819.0	QPSK	1	0	23.5	28.3
				1	2	23.5	28.1
				1	5	23.6	28.3
				3	0	23.6	28.3
				3	1	23.5	28.4
				3	2	23.5	28.5
			16QAM	6	0	22.6	27.9
				1	0	22.6	28.2
				1	2	22.6	28.3
				1	5	22.6	28.3
				3	0	22.6	28.2
				3	1	22.6	28.3
				3	2	22.5	28.3
				6	0	21.7	28.0
1.4	26783	823.3	QPSK	1	0	23.5	28.2
				1	2	23.4	28.0
				1	5	23.5	28.2
				3	0	23.5	28.5
				3	1	23.5	28.4
				3	2	23.5	28.4
			16QAM	6	0	22.5	27.9
				1	0	22.5	28.3
				1	2	22.5	28.2
				1	5	22.5	28.3
				3	0	22.5	28.2
				3	1	22.5	28.3
				3	2	22.5	28.3
				6	0	21.7	28.0

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26705	815.5	QPSK	1	0	23.4	28.1
				1	7	23.4	27.9
				1	14	23.5	28.1
				8	0	22.6	27.7
				8	4	22.5	27.5
				8	7	22.5	27.7
				15	0	22.6	28.5
			16QAM	1	0	22.8	28.2
				1	7	22.6	28.0
				1	14	22.7	28.1
				8	0	21.6	27.6
				8	4	21.6	27.5
				8	7	21.6	27.6
				15	0	21.5	28.0
3.0	26740	819.0	QPSK	1	0	23.5	28.3
				1	7	23.5	28.1
				1	14	23.5	28.3
				8	0	22.6	27.7
				8	4	22.6	27.6
				8	7	22.5	27.6
				15	0	22.6	28.1
			16QAM	1	0	22.5	28.0
				1	7	22.3	27.7
				1	14	22.4	27.9
				8	0	21.6	27.4
				8	4	21.6	27.3
				8	7	21.6	27.4
				15	0	21.6	27.9
3.0	26775	822.5	QPSK	1	0	23.5	28.1
				1	7	23.4	27.9
				1	14	23.4	28.1
				8	0	22.5	27.7
				8	4	22.5	27.6
				8	7	22.5	27.6
				15	0	22.6	28.0
			16QAM	1	0	22.7	28.0
				1	7	22.7	28.0
				1	14	22.7	28.2
				8	0	21.6	27.5
				8	4	21.6	27.3
				8	7	21.6	27.5
				15	0	21.5	28.2

OUTPUT POWER FOR LTE BAND 26 (5.0 MH)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26715	816.5	QPSK	1	0	23.6	28.3
				1	12	23.5	28.1
				1	24	23.5	28.3
				12	0	22.6	27.7
				12	6	22.6	27.6
				12	11	22.6	27.6
				25	0	22.6	28.3
			16QAM	1	0	22.7	27.9
				1	12	22.7	27.9
				1	24	22.6	27.9
				12	0	21.4	27.6
				12	6	21.4	27.5
				12	11	21.4	27.5
				25	0	21.6	27.8
5.0	26740	819.0	QPSK	1	0	23.5	28.1
				1	12	23.5	28.0
				1	24	23.5	28.2
				12	0	22.6	27.6
				12	6	22.6	27.6
				12	11	22.5	27.5
				25	0	22.5	27.9
			16QAM	1	0	22.7	27.8
				1	12	22.6	27.9
				1	24	22.6	27.9
				12	0	21.4	27.5
				12	6	21.4	27.4
				12	11	21.4	27.5
				25	0	21.5	28.1
5.0	26765	821.5	QPSK	1	0	23.5	28.3
				1	12	23.5	28.0
				1	24	23.5	28.2
				12	0	22.6	27.6
				12	6	22.5	27.5
				12	11	22.5	27.5
				25	0	22.5	28.1
			16QAM	1	0	22.6	28.0
				1	12	22.6	27.8
				1	24	22.6	27.9
				12	0	21.4	27.5
				12	6	21.4	27.4
				12	11	21.3	27.4
				25	0	21.5	28.0

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26740	819.0	QPSK	1	0	23.5	28.1
				1	24	23.4	28.0
				1	49	23.4	28.0
				25	0	22.6	27.7
				25	12	22.6	27.7
				25	24	22.6	27.7
				50	0	22.5	28.6
			16QAM	1	0	22.7	28.2
				1	24	22.7	28.1
				1	49	22.7	28.0
				25	0	21.6	27.6
				25	12	21.6	27.4
				25	24	21.6	27.6
				50	0	21.5	28.3

7.2.9. LTE BAND 41

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	39675	2498.5	QPSK	1	0	21.6	26.6
				1	12	21.7	26.6
				1	24	21.7	26.8
				12	0	20.6	26.0
				12	6	20.5	25.9
				12	11	20.7	26.3
				25	0	20.5	26.6
			16QAM	1	0	20.3	25.7
				1	12	20.3	25.7
				1	24	20.3	25.8
				12	0	19.8	26.2
				12	6	19.7	26.2
				12	11	19.9	26.3
				25	0	19.6	26.4
5.0	40620	2593.0	QPSK	1	0	21.6	25.8
				1	12	21.6	25.7
				1	24	21.6	25.9
				12	0	20.5	26.6
				12	6	20.5	26.4
				12	11	20.6	26.5
				25	0	20.6	26.8
			16QAM	1	0	20.9	26.3
				1	12	20.8	26.3
				1	24	20.9	26.2
				12	0	19.6	26.3
				12	6	19.6	26.3
				12	11	19.5	26.2
				25	0	19.5	26.3
5.0	41565	2687.5	QPSK	1	0	21.8	25.9
				1	12	21.7	25.8
				1	24	21.8	25.8
				12	0	20.8	25.9
				12	6	20.7	25.8
				12	11	20.8	25.8
				25	0	20.7	26.2
			16QAM	1	0	20.4	26.0
				1	12	20.4	26.0
				1	24	20.4	25.9
				12	0	19.9	26.1
				12	6	19.9	26.0
				12	11	19.8	26.2
				25	0	19.6	26.3

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	39700	2501.0	QPSK	1	0	21.8	26.8
				1	24	21.9	26.9
				1	49	21.8	27.1
				25	0	20.6	26.7
				25	12	20.7	26.8
				25	24	20.7	26.9
				50	0	20.7	26.8
			16QAM	1	0	20.5	25.6
				1	24	20.6	25.6
				1	49	20.6	25.8
				25	0	19.6	26.3
				25	12	19.7	26.6
				25	24	19.6	26.3
				50	0	19.8	26.7
10.0	40620	2593.0	QPSK	1	0	21.8	26.8
				1	24	21.7	26.8
				1	49	21.7	26.9
				25	0	20.6	26.8
				25	12	20.7	26.8
				25	24	20.6	26.8
				50	0	20.6	27.0
			16QAM	1	0	20.3	26.5
				1	24	20.2	26.6
				1	49	20.3	26.6
				25	0	19.6	26.5
				25	12	19.6	26.6
				25	24	19.6	26.5
				50	0	19.6	26.5
10.0	41540	2685.0	QPSK	1	0	22.0	26.9
				1	24	21.9	26.8
				1	49	21.9	26.7
				25	0	20.8	27.1
				25	12	20.8	27.0
				25	24	20.8	27.0
				50	0	20.9	27.1
			16QAM	1	0	20.7	25.9
				1	24	20.6	25.9
				1	49	20.7	25.9
				25	0	19.8	26.6
				25	12	19.7	26.5
				25	24	19.7	26.5
				50	0	19.8	26.6

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	39725	2503.5	QPSK	1	0	21.6	27.1
				1	37	21.7	27.2
				1	74	21.7	27.3
				36	0	20.6	27.0
				36	16	20.7	27.1
				36	35	20.7	27.2
				75	0	20.7	26.9
			16-QAM	1	0	20.2	26.5
				1	37	20.3	26.6
				1	74	20.3	26.9
				36	0	19.7	26.6
				36	16	19.7	26.6
				36	35	19.7	26.7
				75	0	19.8	27.2
15.0	40620	2593.0	QPSK	1	0	21.8	27.3
				1	37	21.7	27.5
				1	74	21.7	27.5
				36	0	20.8	27.3
				36	16	20.7	27.4
				36	35	20.6	27.3
				75	0	20.7	27.0
			16-QAM	1	0	20.3	27.0
				1	37	20.2	26.6
				1	74	20.2	26.5
				36	0	19.7	26.8
				36	16	19.6	26.7
				36	35	19.6	26.7
				75	0	19.8	27.2
15.0	41515	2682.5	QPSK	1	0	21.8	26.9
				1	37	21.8	26.9
				1	74	21.7	26.8
				36	0	20.8	27.3
				36	16	20.9	27.4
				36	35	20.9	27.4
				75	0	20.9	27.5
			16-QAM	1	0	20.2	26.2
				1	37	20.3	26.3
				1	74	20.3	26.1
				36	0	19.8	26.5
				36	16	19.8	26.5
				36	35	19.8	26.5
				75	0	19.9	27.1

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	39750	2506.0	QPSK	1	0	21.6	26.4
				1	49	21.5	26.5
				1	99	21.6	26.6
				50	0	20.7	26.7
				50	24	20.7	27.0
				50	49	20.7	27.1
				100	0	20.6	26.8
			16-QAM	1	0	20.6	25.8
				1	49	20.6	25.8
				1	99	20.7	26.0
				50	0	19.8	26.6
				50	24	19.8	26.5
				50	49	19.8	26.8
				100	0	19.8	27.1
20.0	40620	2593.0	QPSK	1	0	21.7	26.8
				1	49	21.6	26.6
				1	99	21.7	26.7
				50	0	20.8	27.1
				50	24	20.7	27.2
				50	49	20.6	27.2
				100	0	20.7	27.2
			16-QAM	1	0	20.8	26.1
				1	49	20.6	25.8
				1	99	20.7	26.1
				50	0	19.8	26.9
				50	24	19.7	26.7
				50	49	19.6	26.6
				100	0	19.8	27.2
20.0	41490	2680.0	QPSK	1	0	21.6	26.3
				1	49	21.6	26.5
				1	99	21.7	26.4
				50	0	20.7	26.9
				50	24	20.7	27.2
				50	49	20.8	27.1
				100	0	20.8	27.1
			16-QAM	1	0	20.8	25.9
				1	49	20.8	26.0
				1	99	20.8	26.1
				50	0	19.7	26.3
				50	24	19.8	26.5
				50	49	19.9	26.5
				100	0	19.8	26.9

8. CONDUCTED TEST RESULTS

8.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 2	1.4 MHz BAND QPSK	6/0	1880	1.0807	1.216
	1.4 MHz BAND 16QAM	6/0	1880	1.0887	1.198
	3.0 MHz BAND QPSK	15/0	1880	2.6781	2.877
	3.0 MHz BAND 16QAM	15/0	1880	2.6731	2.776
	5.0 MHz BAND QPSK	25/0	1880	4.4555	4.743
	5.0 MHz BAND 16QAM	25/0	1880	4.4338	4.626
	10.0 MHz BAND QPSK	50/0	1880	8.8565	9.220
	10.0 MHz BAND 16QAM	50/0	1880	8.8894	9.239
	15.0 MHz BAND QPSK	75/0	1880	13.0802	13.795
	15.0 MHz BAND 16QAM	75/0	1880	13.3873	13.779
	20.0 MHz BAND QPSK	100/0	1880	17.7488	18.36
	20.0 MHz BAND 16QAM	100/0	1880	17.5806	18.344

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 4	1.4 MHz BAND QPSK	6/0	1732.5	1.0808	1.215
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0851	1.241
	3.0 MHz BAND QPSK	15/0	1732.5	2.6597	2.789
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6849	2.763
	5.0 MHz BAND QPSK	25/0	1732.5	4.4275	4.599
	5.0 MHz BAND 16QAM	25/0	1732.5	4.4495	4.702
	10.0 MHz BAND QPSK	50/0	1732.5	8.8893	9.222
	10.0 MHz BAND 16QAM	50/0	1732.5	8.7874	9.183
	15.0 MHz BAND QPSK	75/0	1732.5	13.2223	14.056
	15.0 MHz BAND 16QAM	75/0	1732.5	13.3825	13.755
	20.0 MHz BAND QPSK	100/0	1732.5	17.6319	18.322
	20.0 MHz BAND 16QAM	100/0	1732.5	17.7894	18.299

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 5	1.4 MHz BAND QPSK	6/0	836.5	1.0914	1.215
	1.4 MHz BAND 16QAM	6/0	836.5	1.0771	1.232
	3.0 MHz BAND QPSK	15/0	836.5	2.6718	2.794
	3.0 MHz BAND 16QAM	15/0	836.5	2.6941	2.786
	5.0 MHz BAND QPSK	25/0	836.5	4.3839	4.588
	5.0 MHz BAND 16QAM	25/0	836.5	4.4199	4.796
	10.0 MHz BAND QPSK	50/0	836.5	8.8689	9.442
	10.0 MHz BAND 16QAM	50/0	836.5	8.8758	9.212

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 7	5.0 MHz BAND QPSK	25/0	2535	4.4400	4.789
	5.0 MHz BAND 16QAM	25/0	2535	4.4346	4.751
	10.0 MHz BAND QPSK	50/0	2535	8.9008	9.133
	10.0 MHz BAND 16QAM	50/0	2535	8.8211	9.145
	15.0 MHz BAND QPSK	75/0	2535	13.3064	13.729
	15.0 MHz BAND 16QAM	75/0	2535	13.2034	13.78
	20.0 MHz BAND QPSK	100/0	2535	17.6749	18.318
	20.0 MHz BAND 16QAM	100/0	2535	17.8246	18.494

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 12	1.4 MHz BAND QPSK	6/0	707.5	1.0961	1.214
	1.4 MHz BAND 16QAM	6/0	707.5	1.0753	1.194
	3.0 MHz BAND QPSK	15/0	707.5	2.6428	2.797
	3.0 MHz BAND 16QAM	15/0	707.5	2.6668	2.807
	5.0 MHz BAND QPSK	25/0	707.5	4.4187	4.793
	5.0 MHz BAND 16QAM	25/0	707.5	4.4317	4.601
	10.0 MHz BAND QPSK	50/0	707.5	8.6741	9.261
	10.0 MHz BAND 16QAM	50/0	707.5	8.7768	9.217

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 17	5.0 MHz BAND QPSK	25/0	710	4.4387	4.603
	5.0 MHz BAND 16QAM	25/0	710	4.4876	4.694
	10.0 MHz BAND QPSK	50/0	710	8.9391	9.26
	10.0 MHz BAND 16QAM	50/0	710	8.7953	9.255

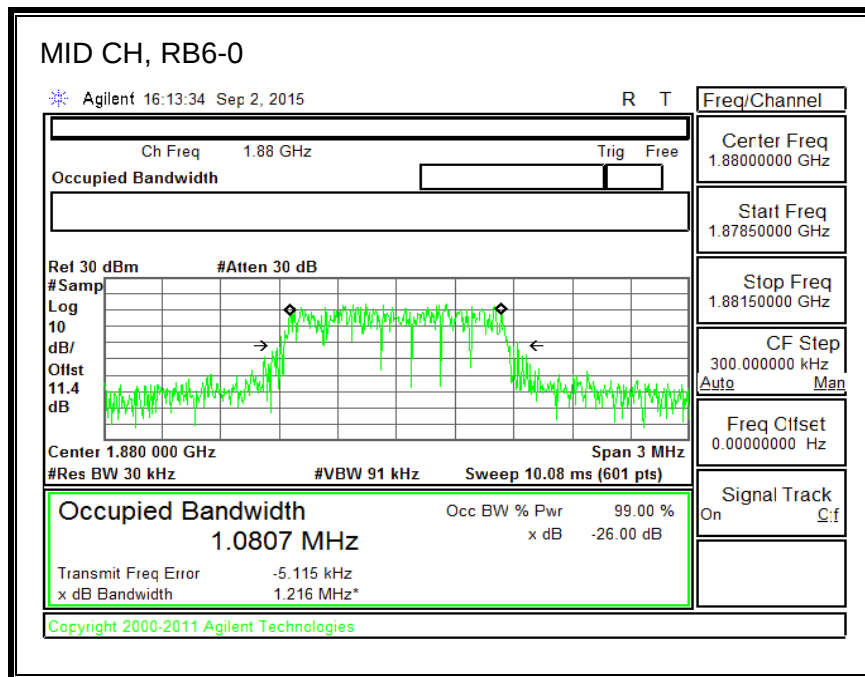
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 25	1.4 MHz BAND QPSK	6/0	1882.5	1.0752	1.213
	1.4 MHz BAND 16QAM	6/0	1882.5	1.0842	1.197
	3.0 MHz BAND QPSK	15/0	1882.5	2.6734	2.793
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6705	2.777
	5.0 MHz BAND QPSK	25/0	1882.5	4.4381	4.693
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4483	4.8
	10.0 MHz BAND QPSK	50/0	1882.5	8.8698	9.128
	10.0 MHz BAND 16QAM	50/0	1882.5	8.9043	9.163
	15.0 MHz BAND QPSK	75/0	1882.5	13.299	13.709
	15.0 MHz BAND 16QAM	75/0	1882.5	13.2938	13.756
	20.0 MHz BAND QPSK	100/0	1882.5	17.7337	18.303
	20.0 MHz BAND 16QAM	100/0	1882.5	17.7461	18.315

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 26	1.4 MHz BAND QPSK	6/0	819	1.0725	1.177
	1.4 MHz BAND 16QAM	6/0	819	1.0717	1.197
	3.0 MHz BAND QPSK	15/0	819	2.6541	2.774
	3.0 MHz BAND 16QAM	15/0	819	2.6652	2.873
	5.0 MHz BAND QPSK	25/0	819	4.4166	4.683
	5.0 MHz BAND 16QAM	25/0	819	4.4382	4.68
	10.0 MHz BAND QPSK	50/0	819	8.9378	9.331
	10.0 MHz BAND 16QAM	50/0	819	8.9213	9.183

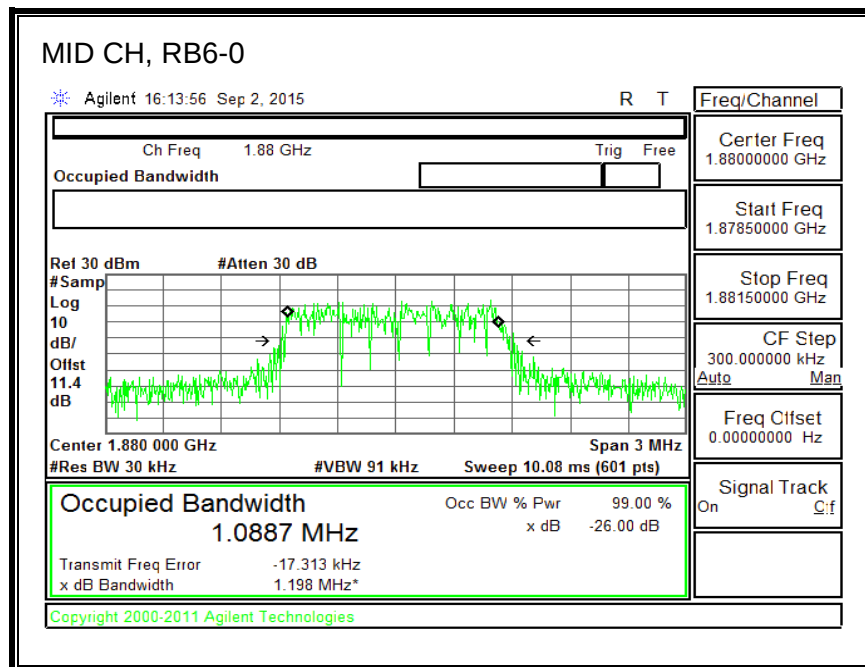
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 41	5.0 MHz BAND QPSK	25/0	2593	4.4345	4.611
	5.0 MHz BAND 16QAM	25/0	2593	4.4732	4.683
	10.0 MHz BAND QPSK	50/0	2593	8.7849	9.285
	10.0 MHz BAND 16QAM	50/0	2593	8.9292	9.299
	15.0 MHz BAND QPSK	75/0	2593	13.3982	13.741
	15.0 MHz BAND 16QAM	75/0	2593	13.2227	13.743
	20.0 MHz BAND QPSK	100/0	2593	17.6857	18.329
	20.0 MHz BAND 16QAM	100/0	2593	17.6362	18.319

8.1.1. LTE BAND 2

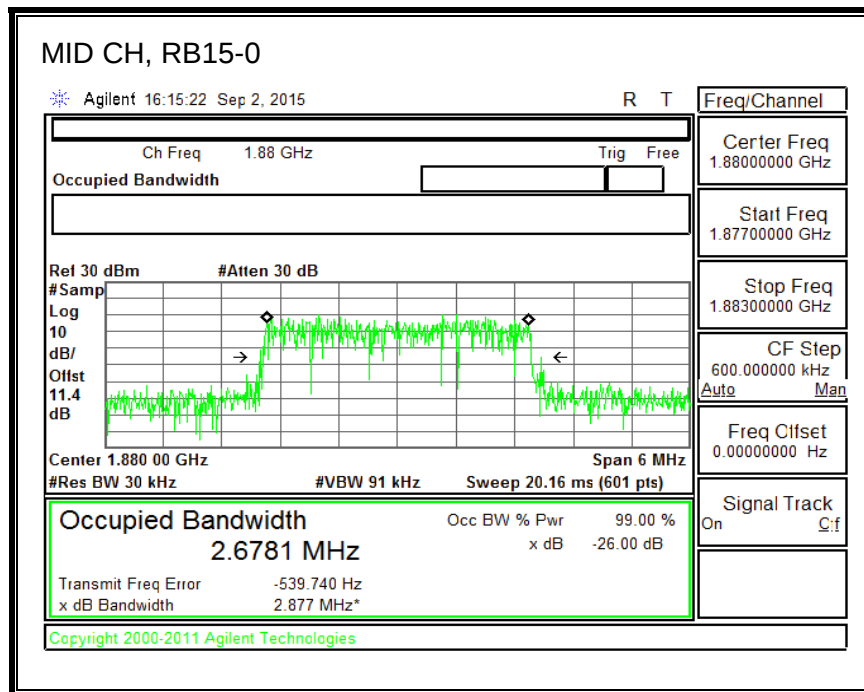
QPSK, (1.4 MHz BAND WIDTH)



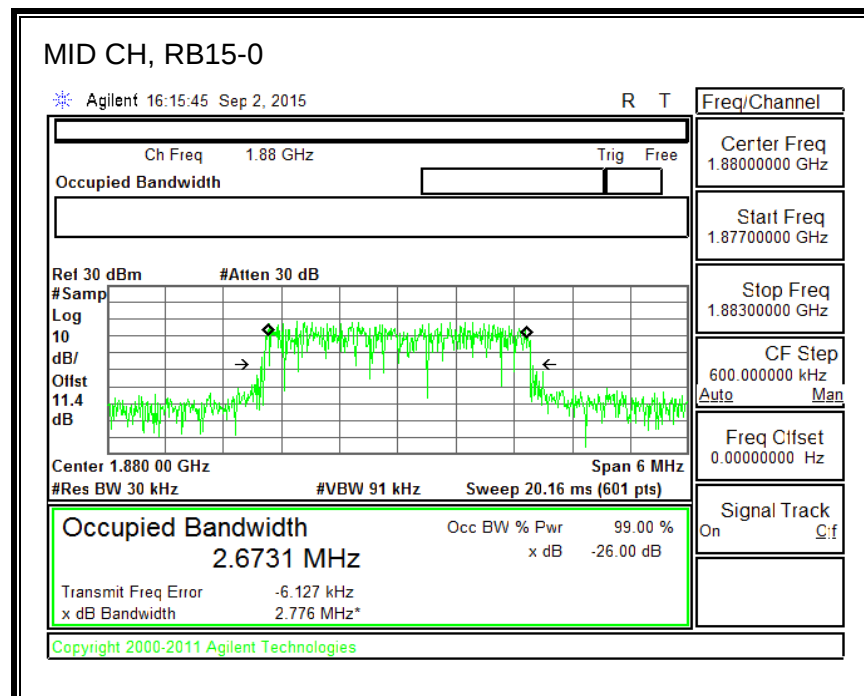
16QAM, (1.4 MHz BAND WIDTH)



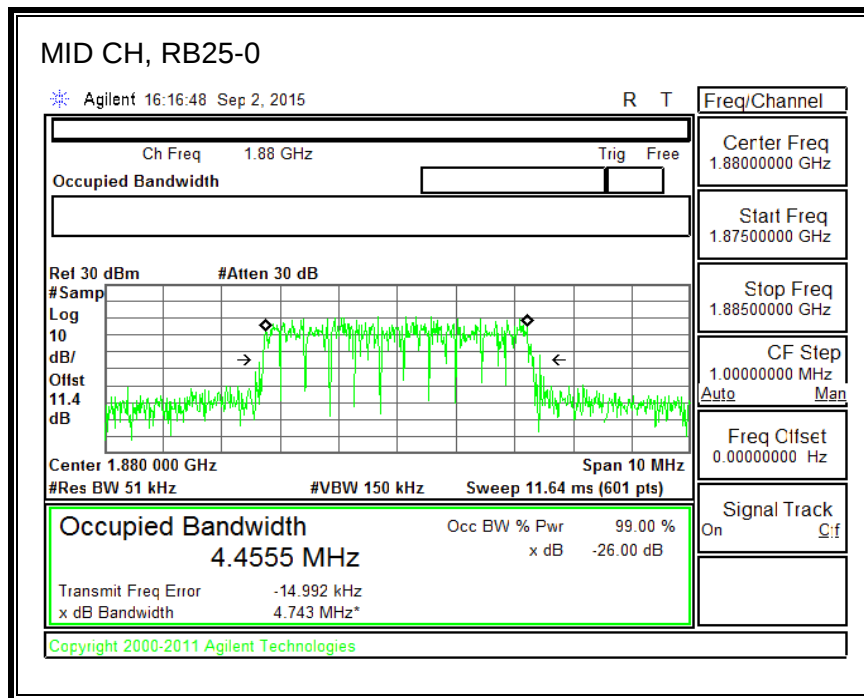
QPSK, (3.0 MHz BAND WIDTH)



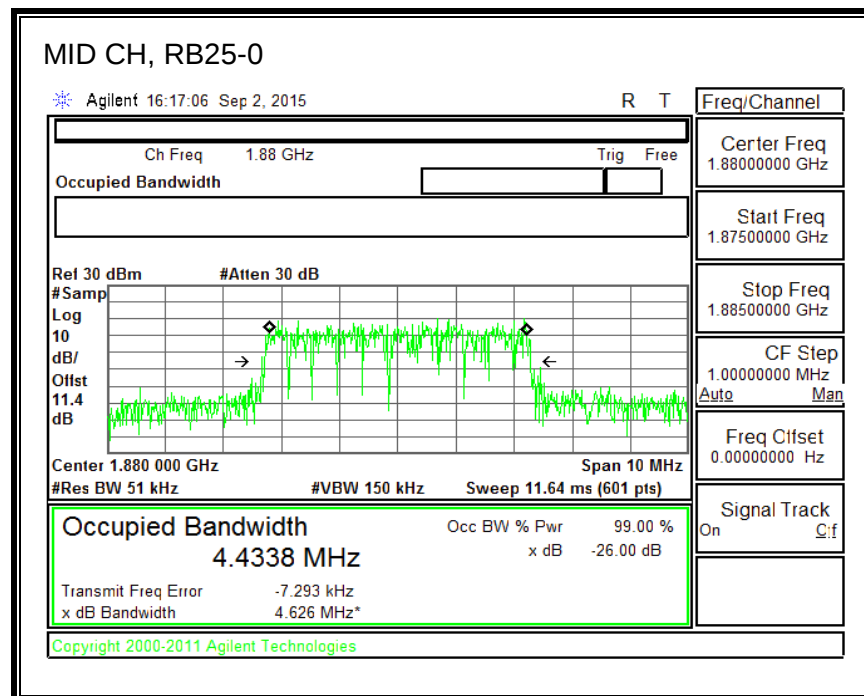
16QAM, (3.0 MHz BAND WIDTH)



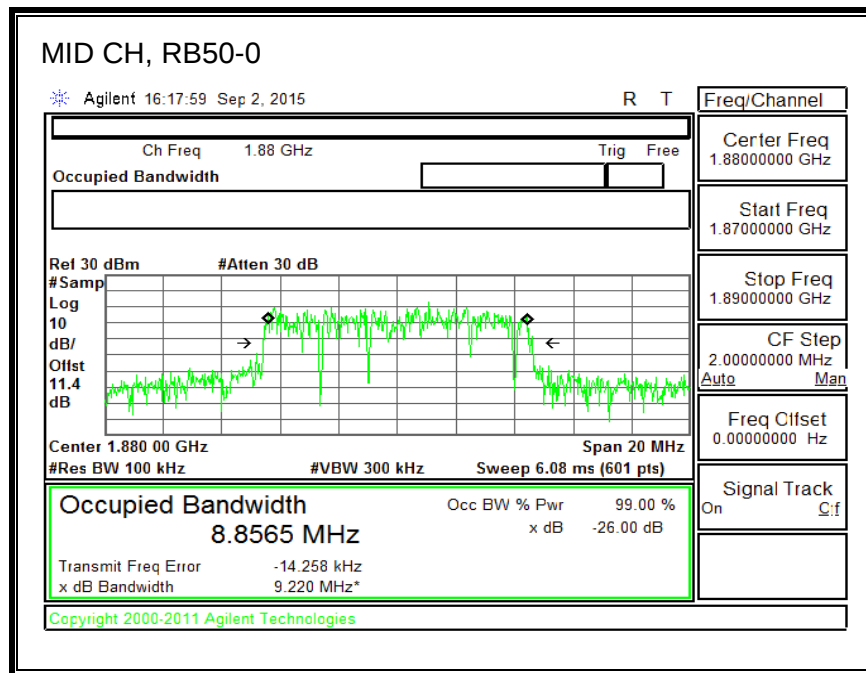
QPSK, (5.0 MHz BAND WIDTH)



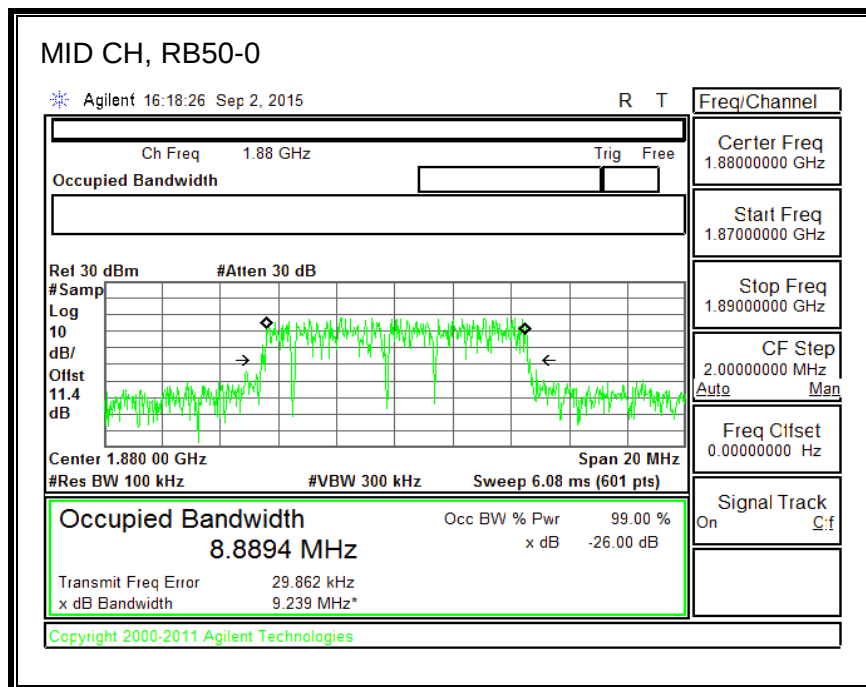
16QAM, (5.0 MHz BAND WIDTH)



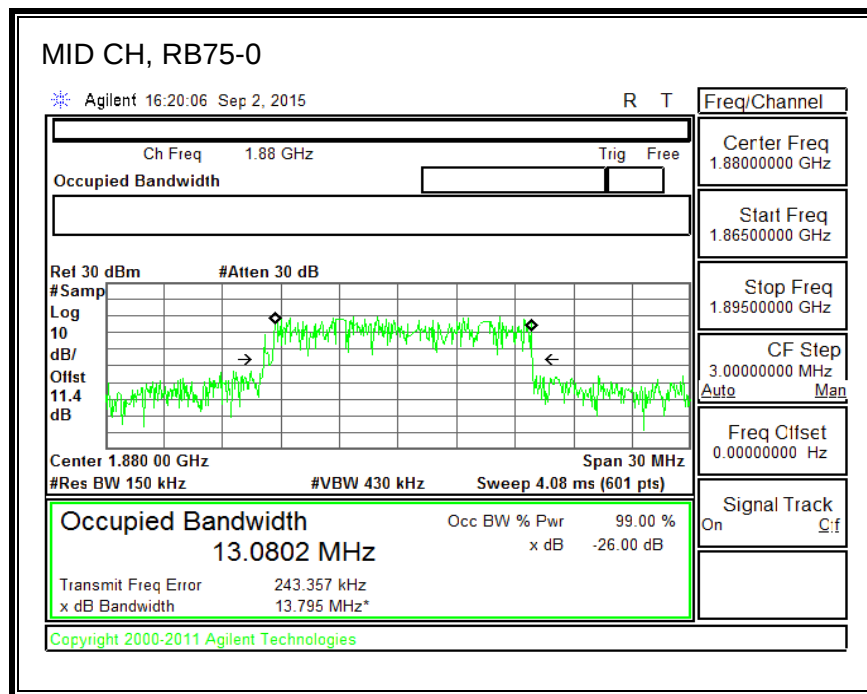
QPSK, (10.0 MHz BAND WIDTH)



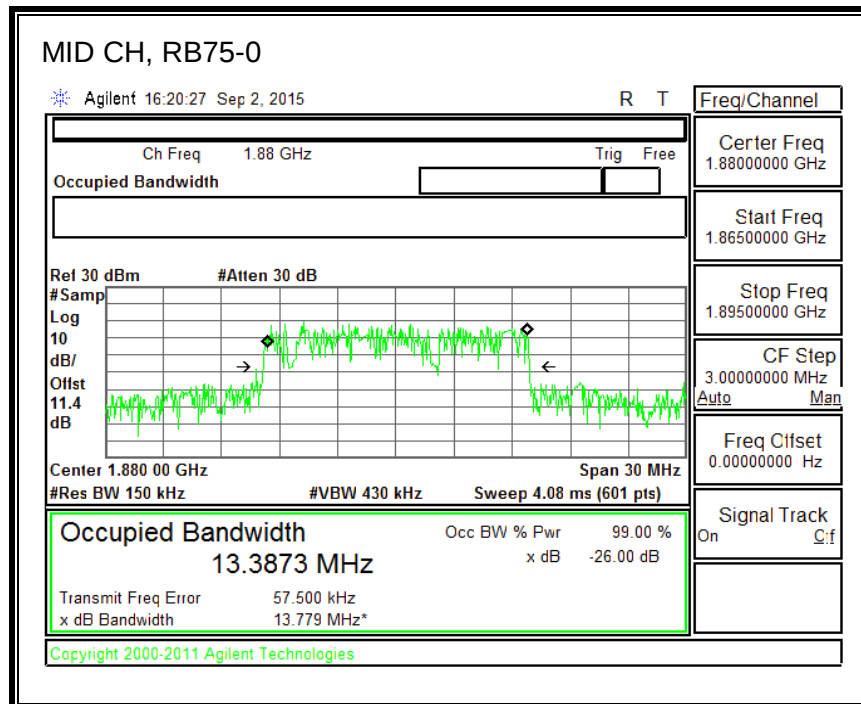
16QAM, (10.0 MHz BAND WIDTH)



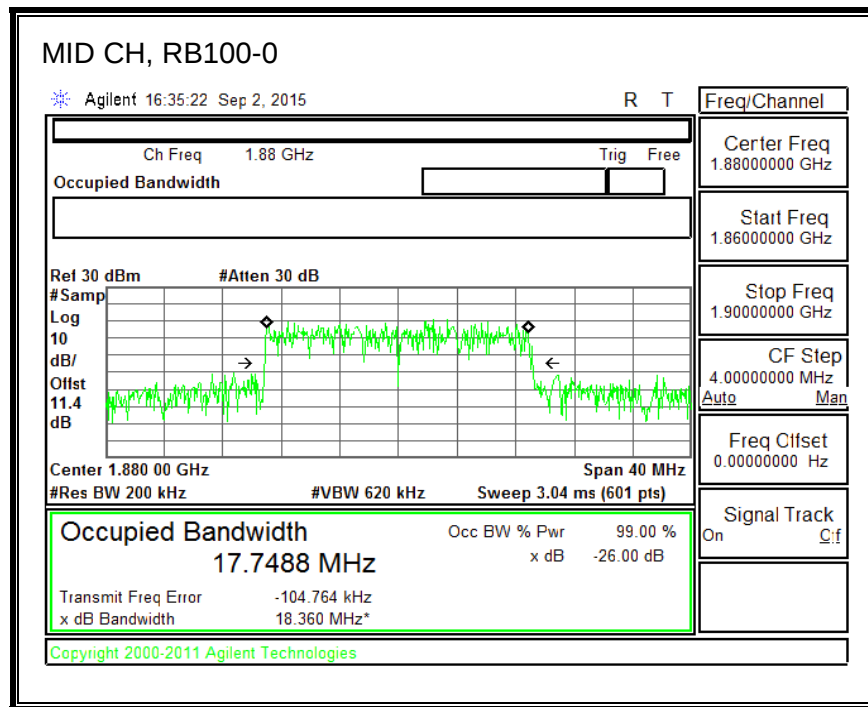
QPSK, (15.0 MHz BAND WIDTH)



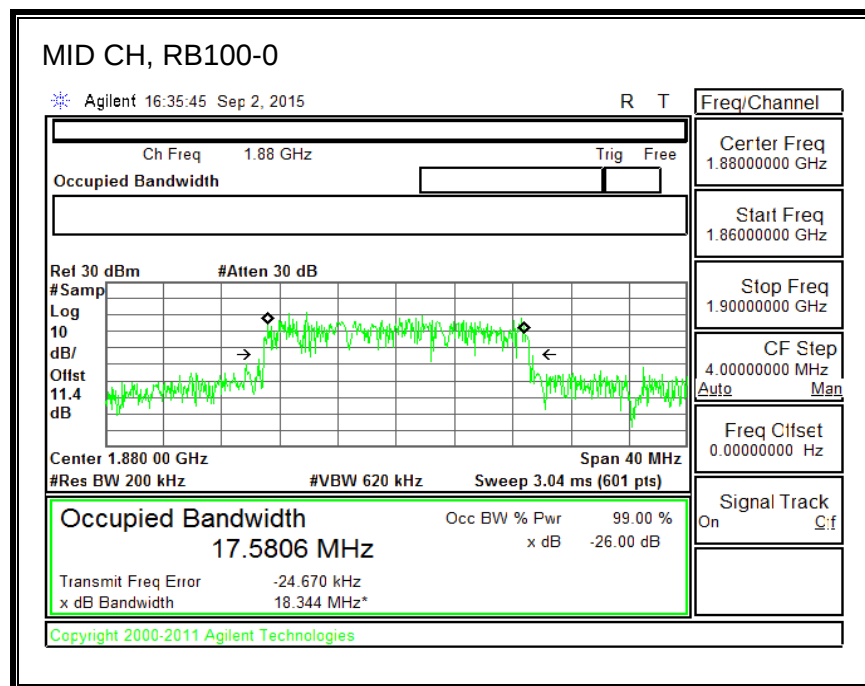
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

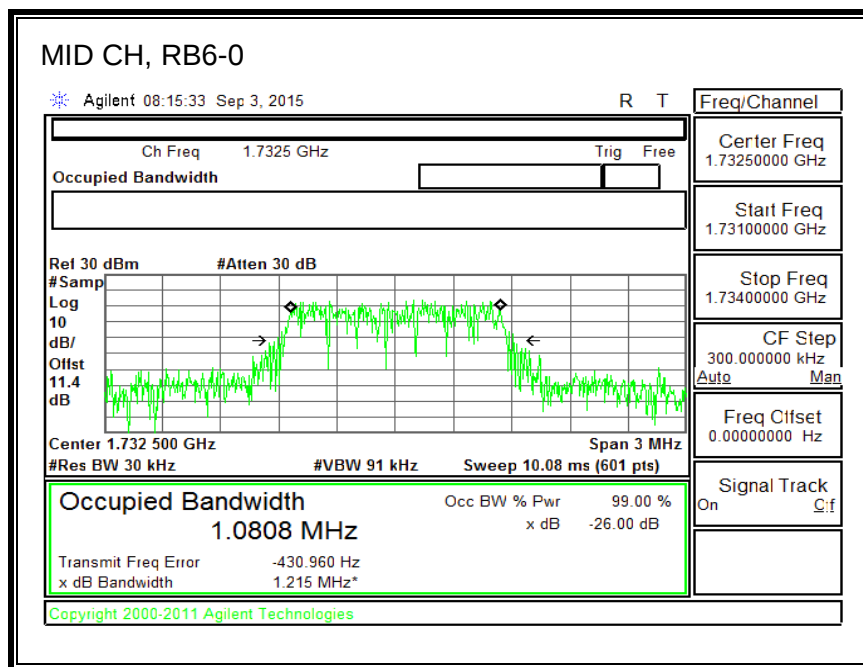


16QAM, (20.0 MHz BAND WIDTH)

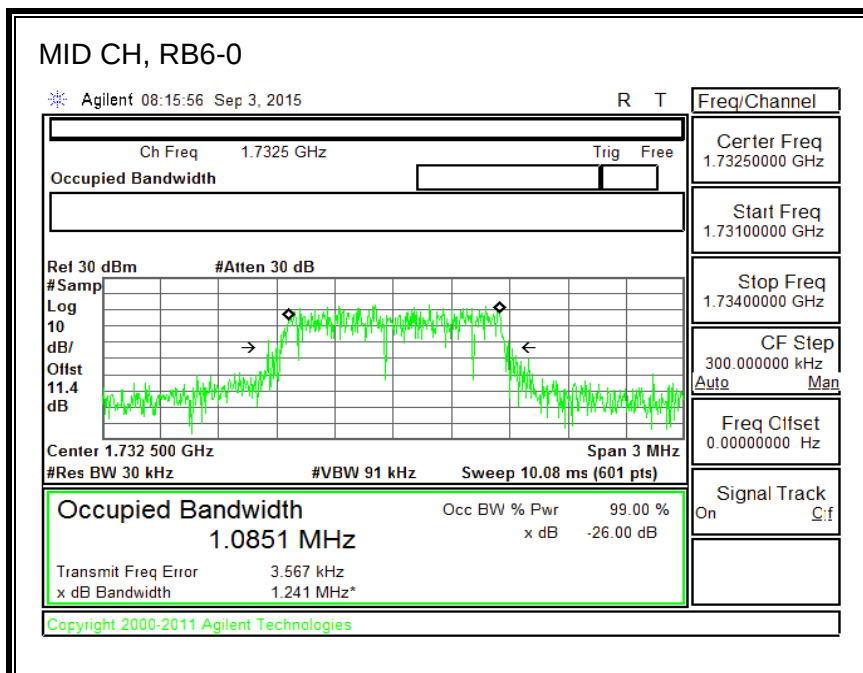


8.1.2. LTE BAND 4

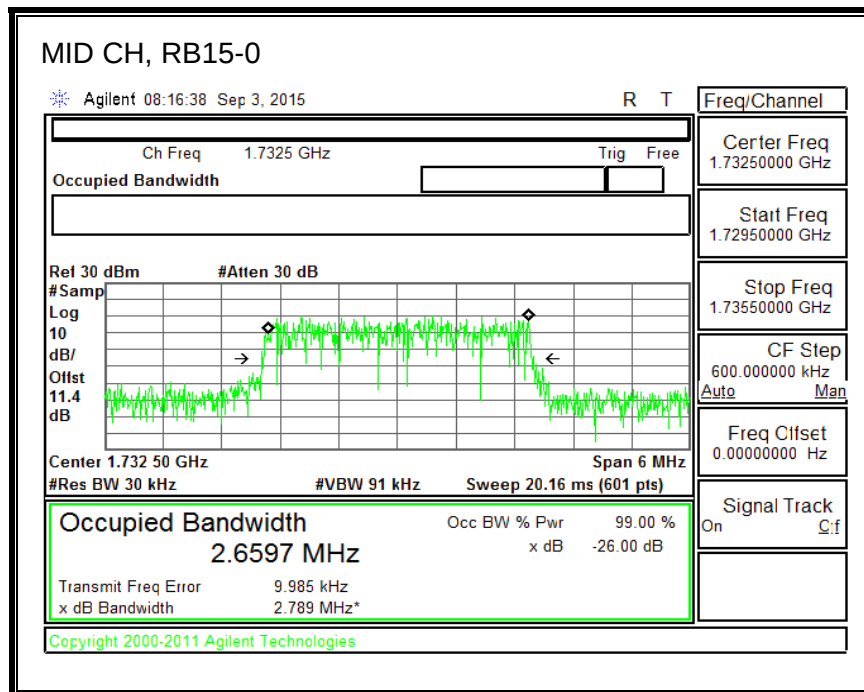
QPSK, (1.4 MHz BAND WIDTH)



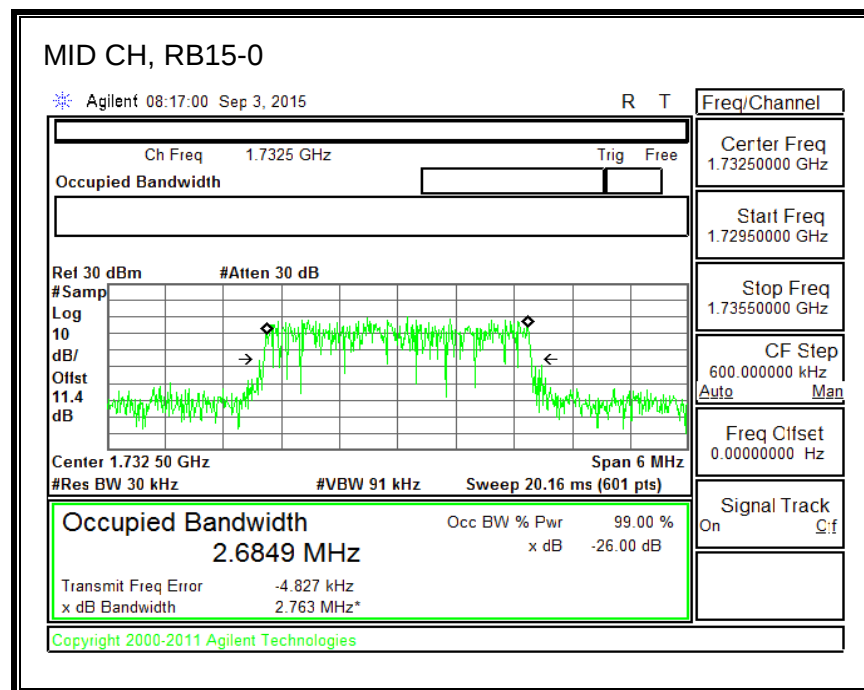
16QAM, (1.4 MHz BAND WIDTH)



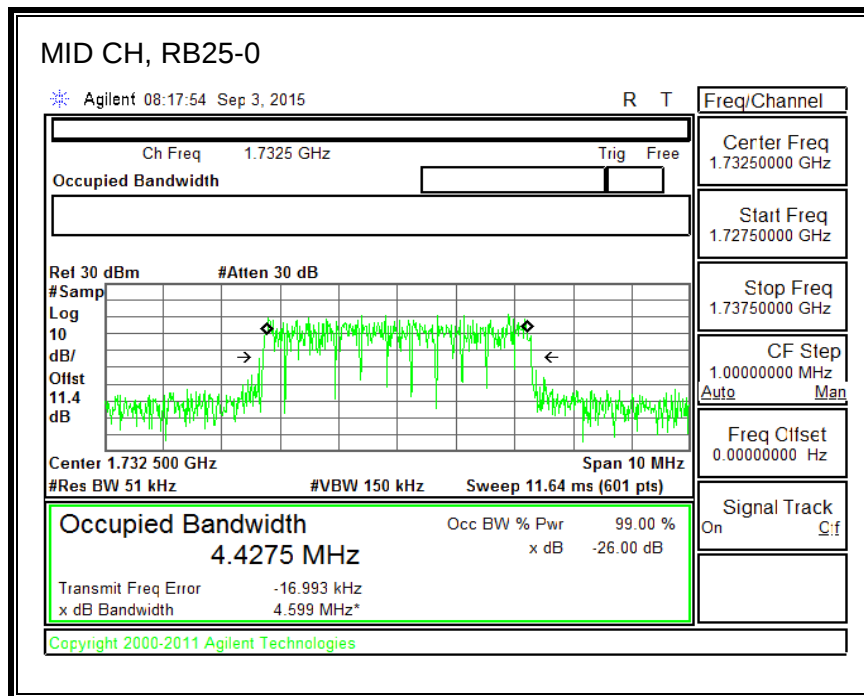
QPSK, (3.0 MHz BAND WIDTH)



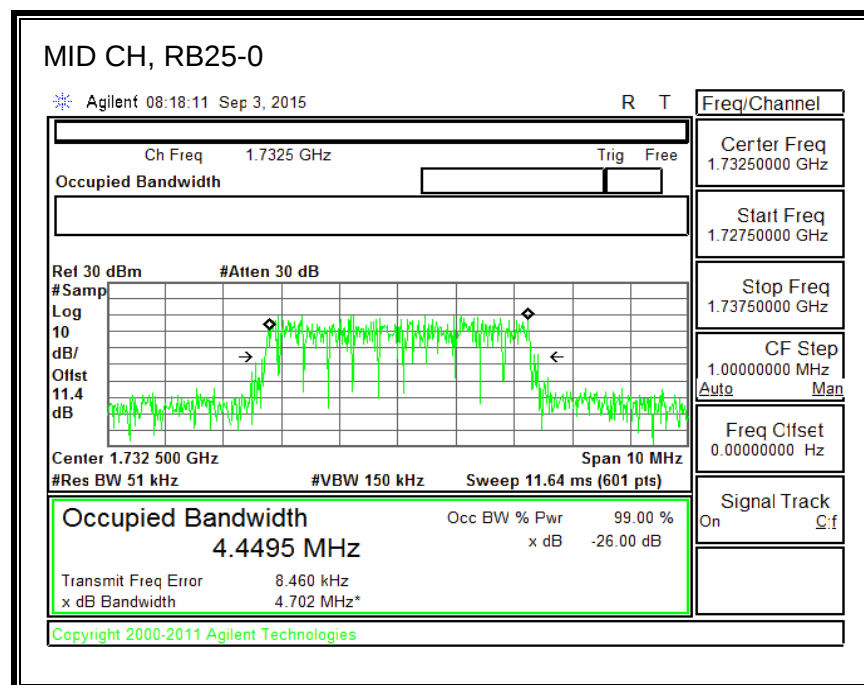
16QAM, (3.0 MHz BAND WIDTH)



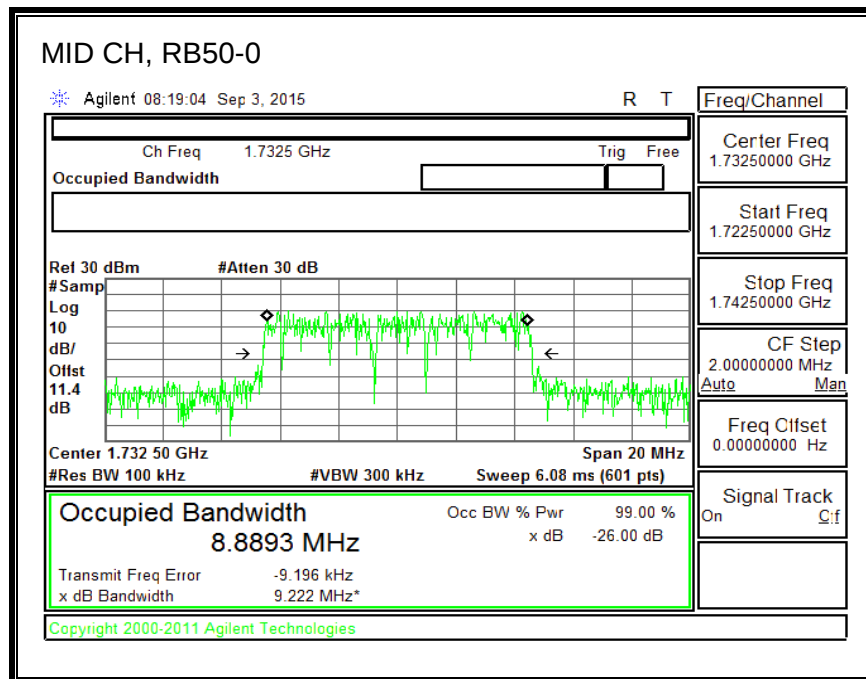
QPSK, (5.0 MHz BAND WIDTH)



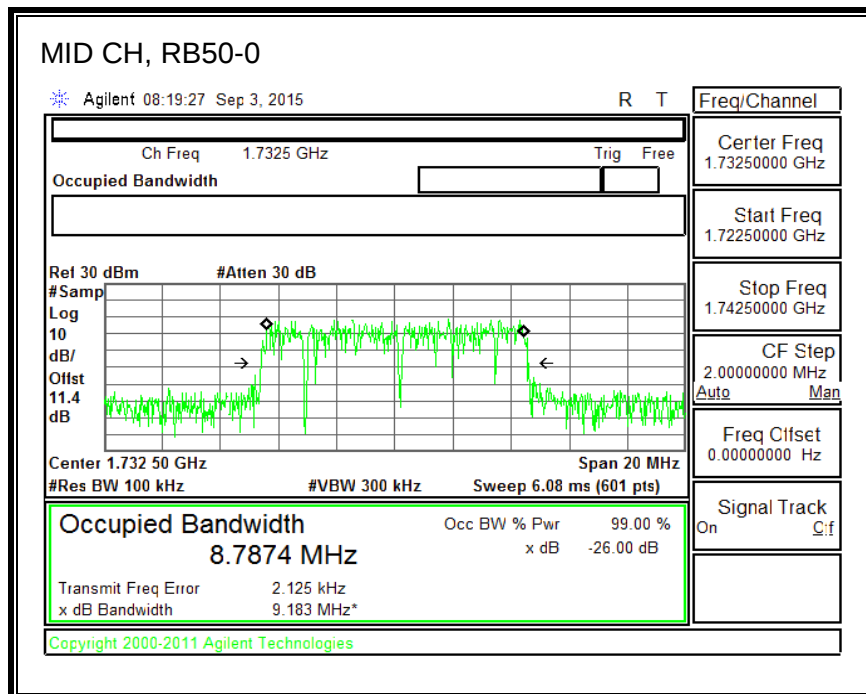
16QAM, (5.0 MHz BAND WIDTH)



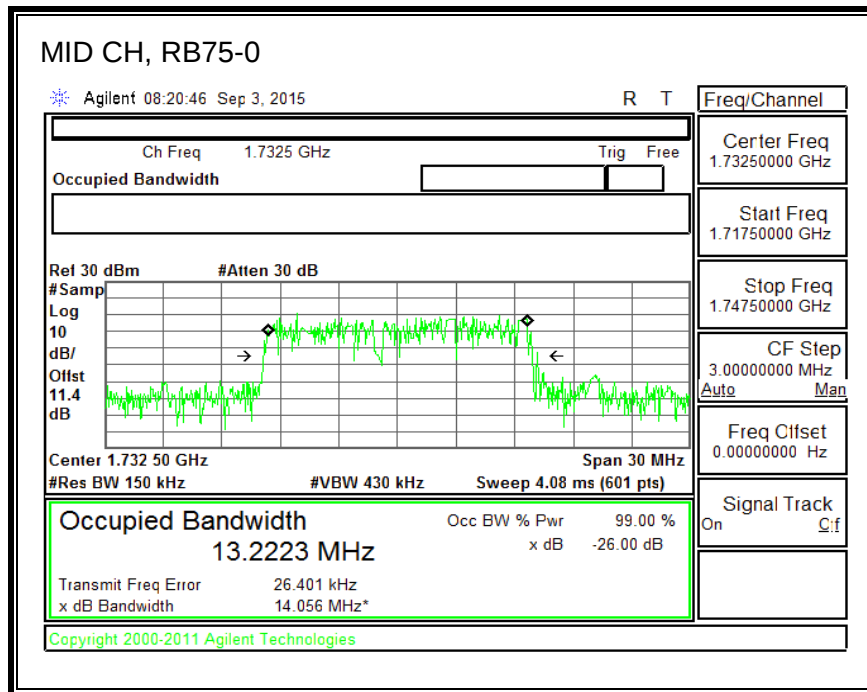
QPSK, (10.0 MHz BAND WIDTH)



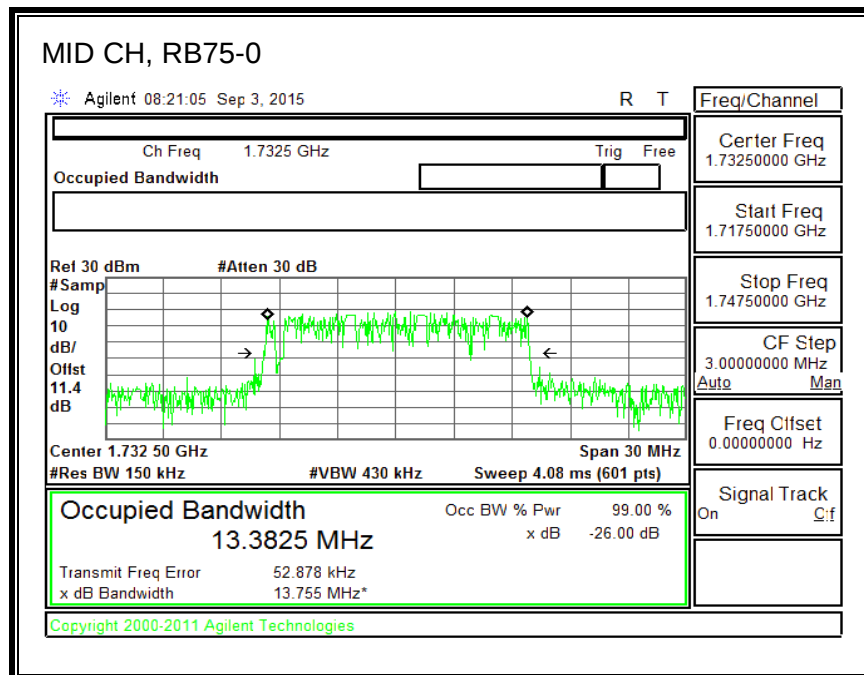
16QAM, (10.0 MHz BAND WIDTH)



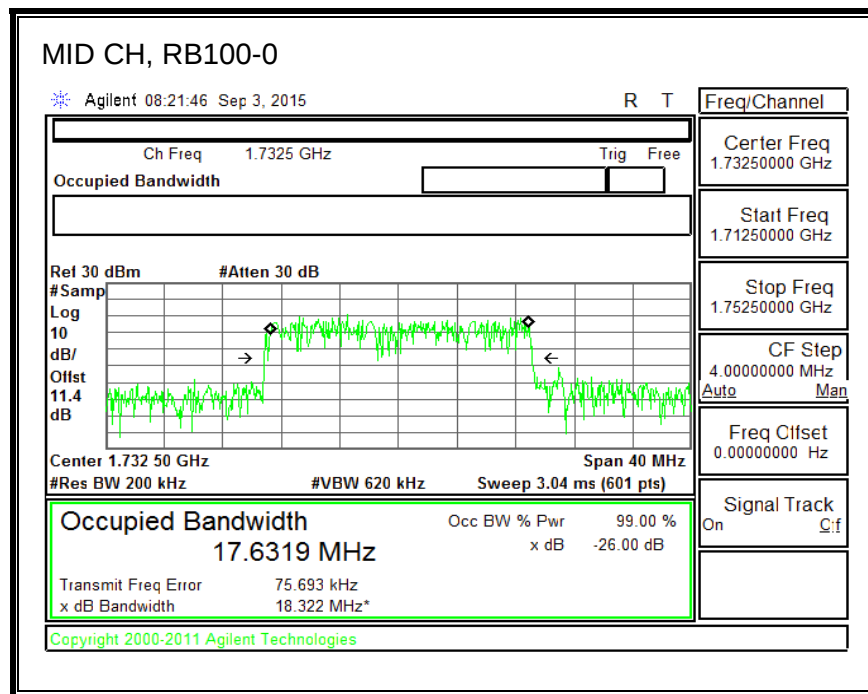
QPSK, (15.0 MHz BAND WIDTH)



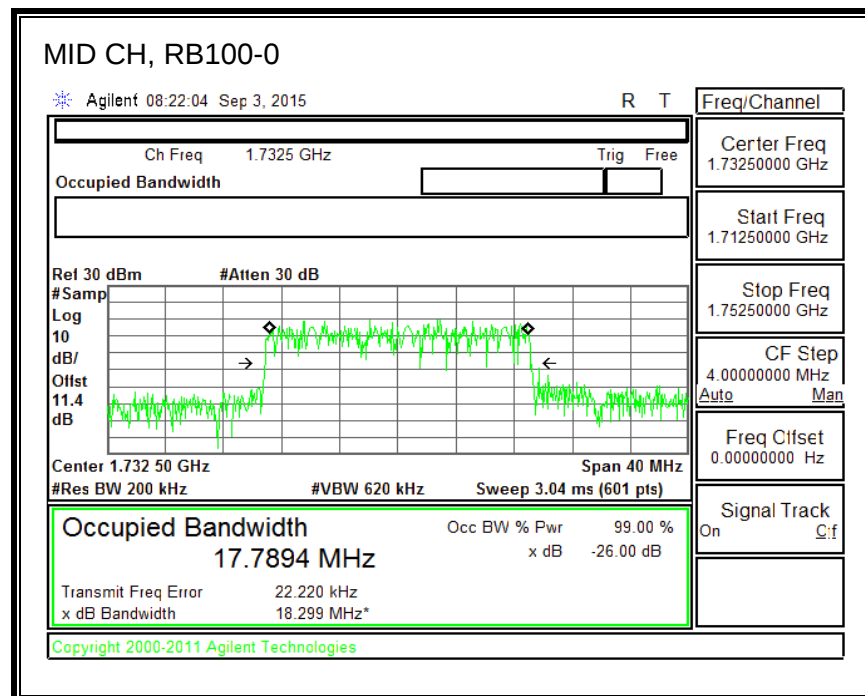
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

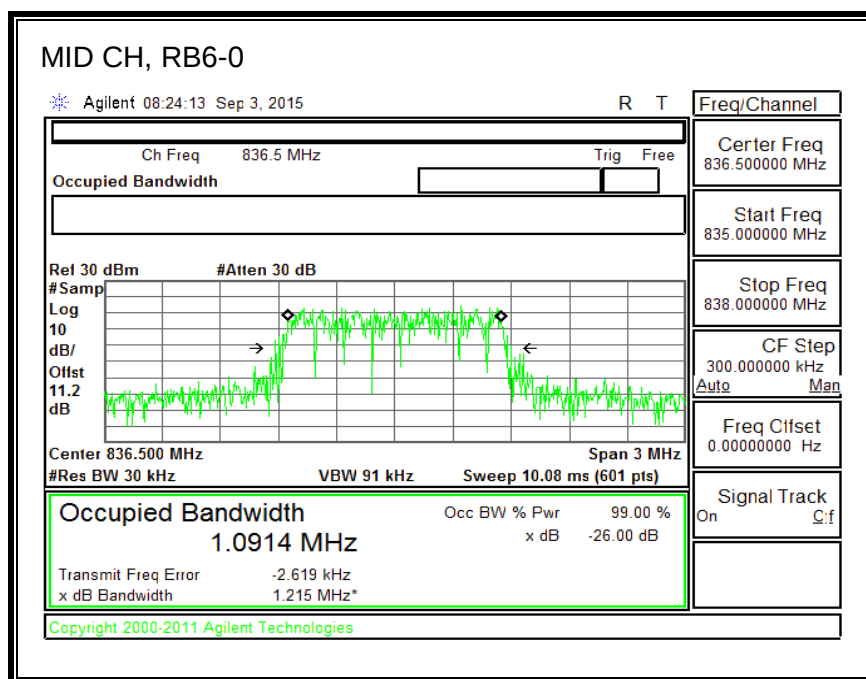


16QAM, (20.0 MHz BAND WIDTH)

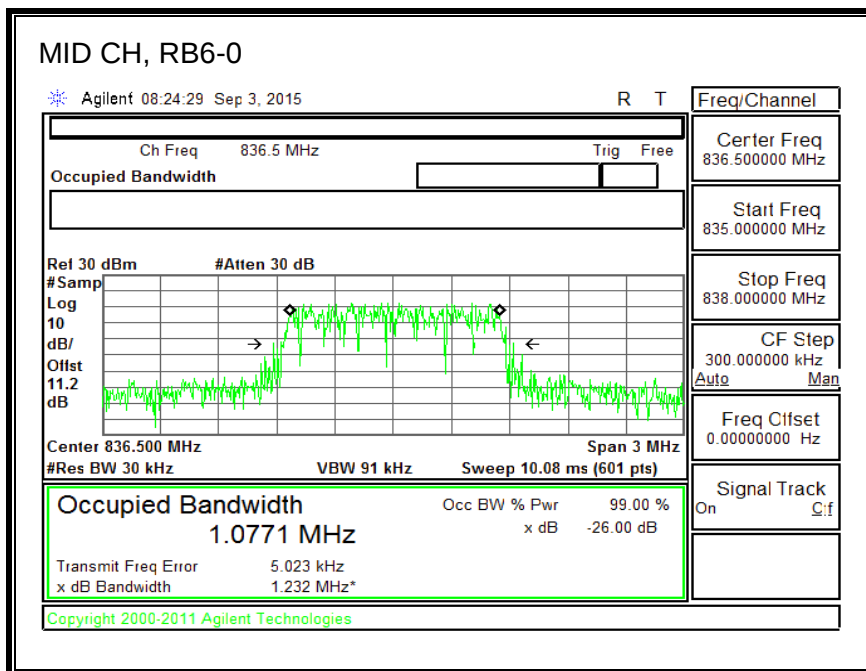


8.1.3. LTE BAND 5

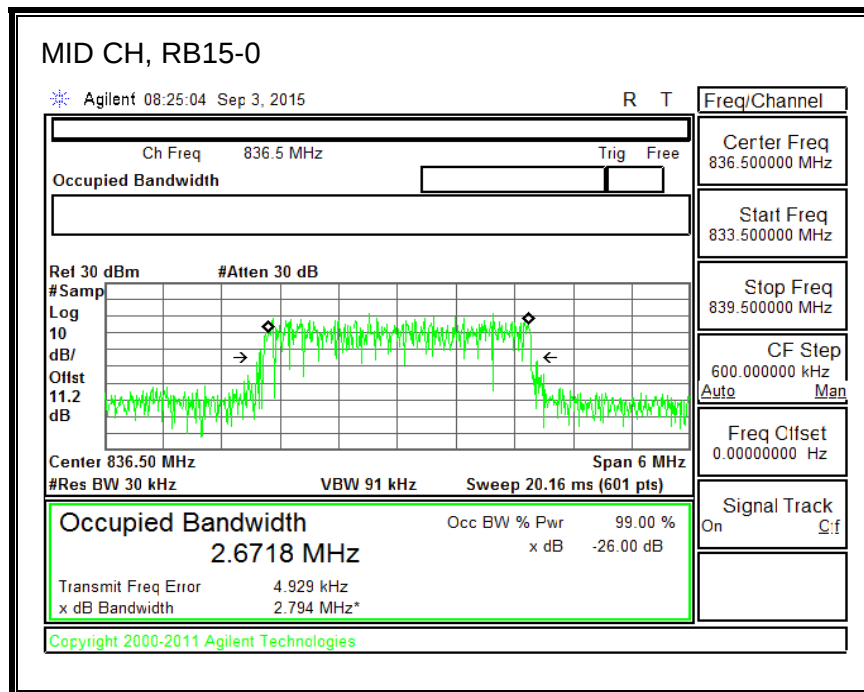
QPSK, (1.4 MHz BAND WIDTH)



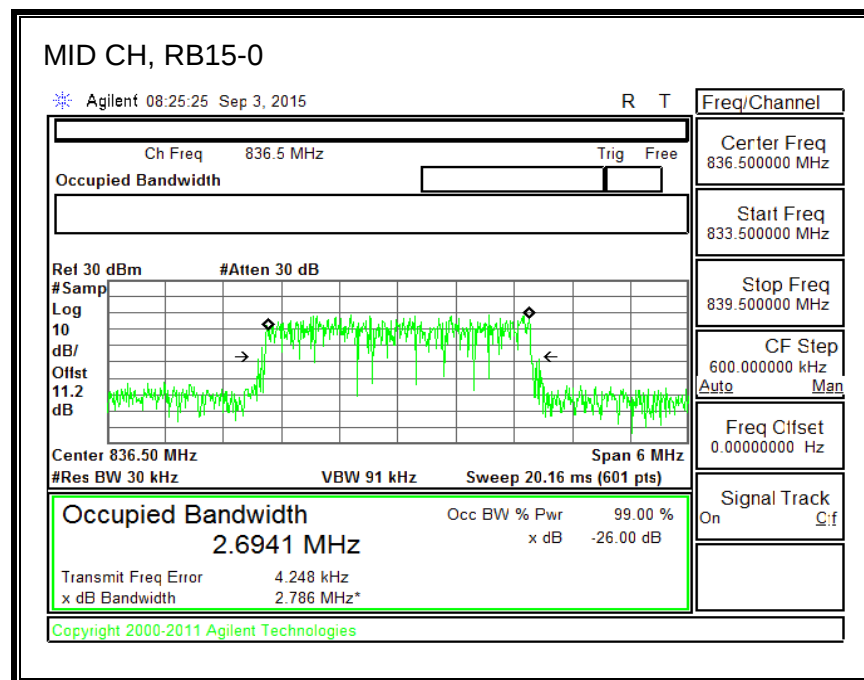
16QAM, (1.4 MHz BAND WIDTH)



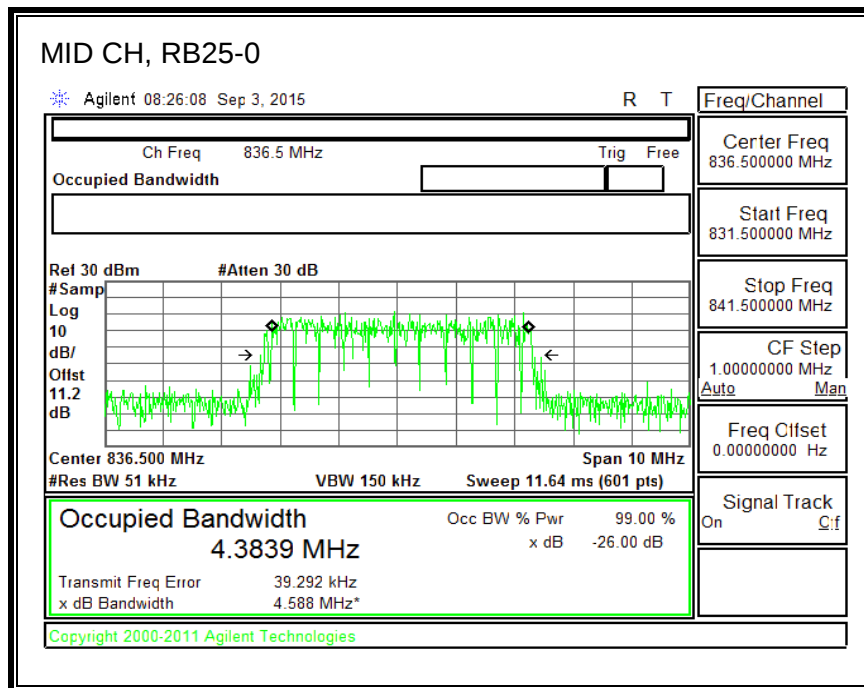
QPSK, (3.0 MHz BAND WIDTH)



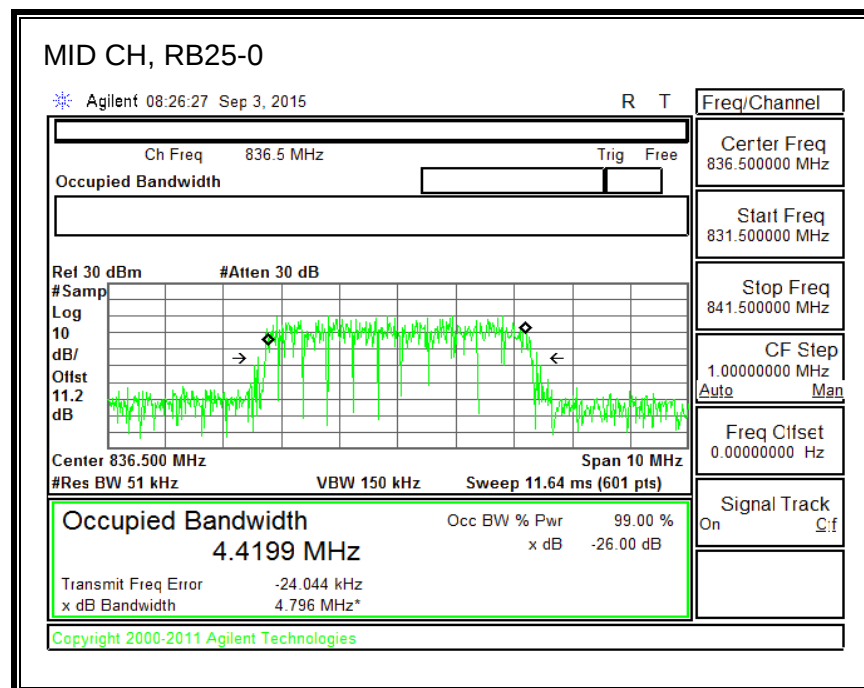
16QAM, (3.0 MHz BAND WIDTH)



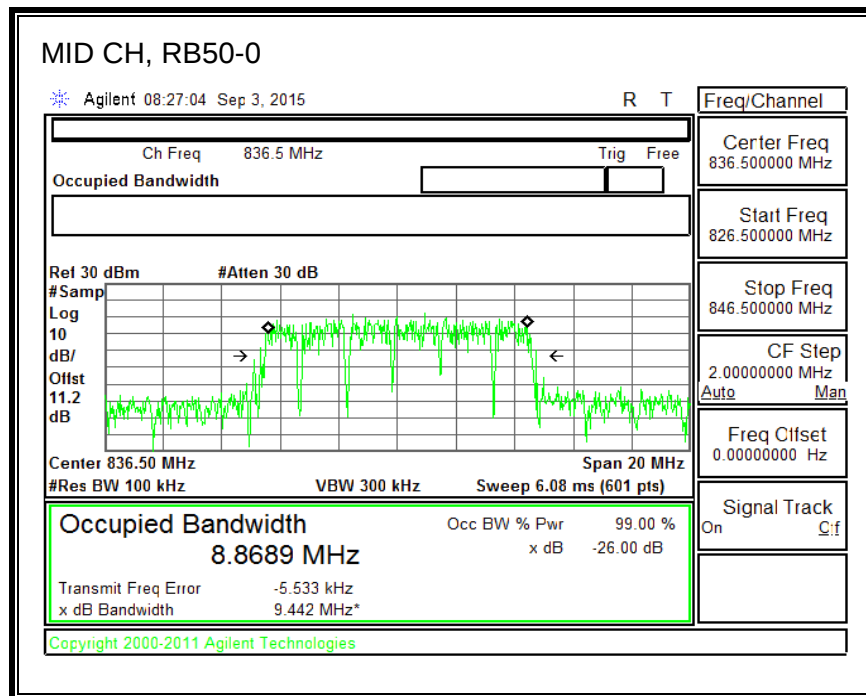
QPSK, (5.0 MHz BAND WIDTH)



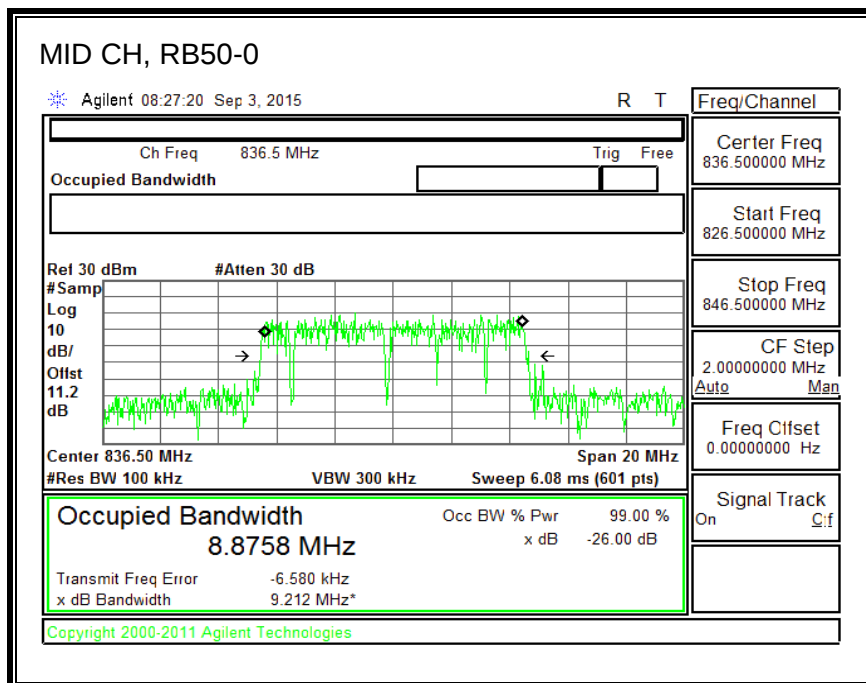
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

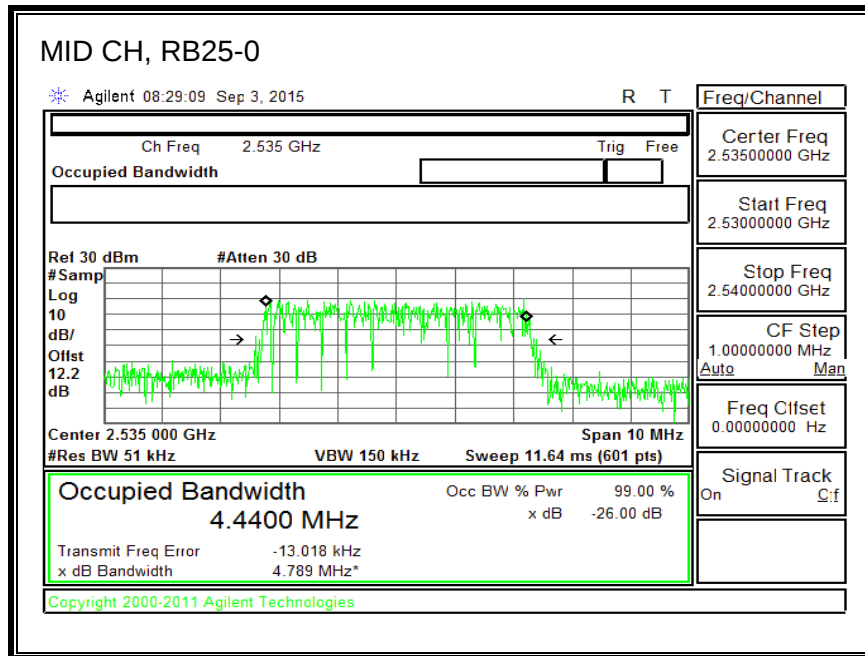


16QAM, (10.0 MHz BAND WIDTH)

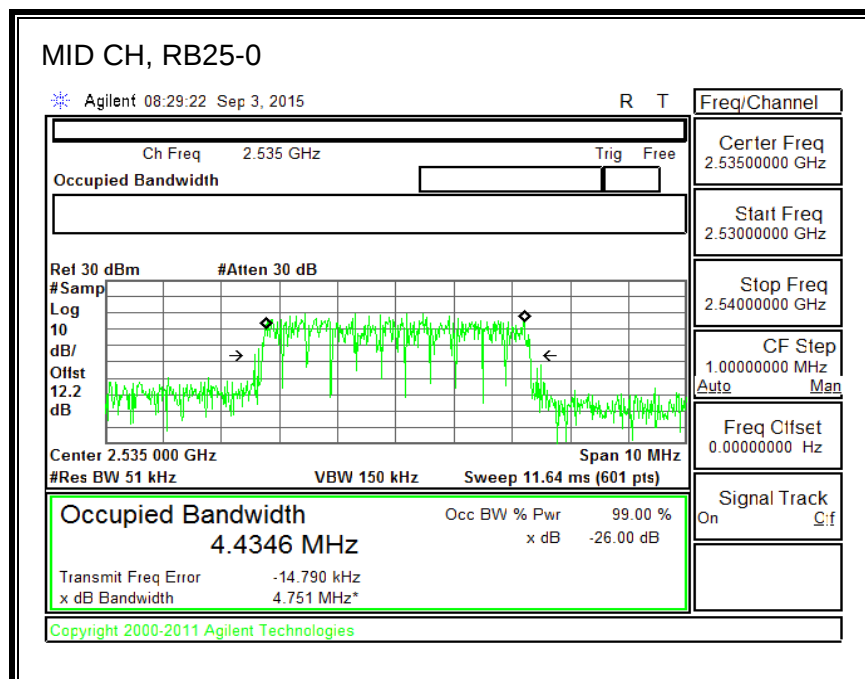


8.1.4. LTE BAND 7

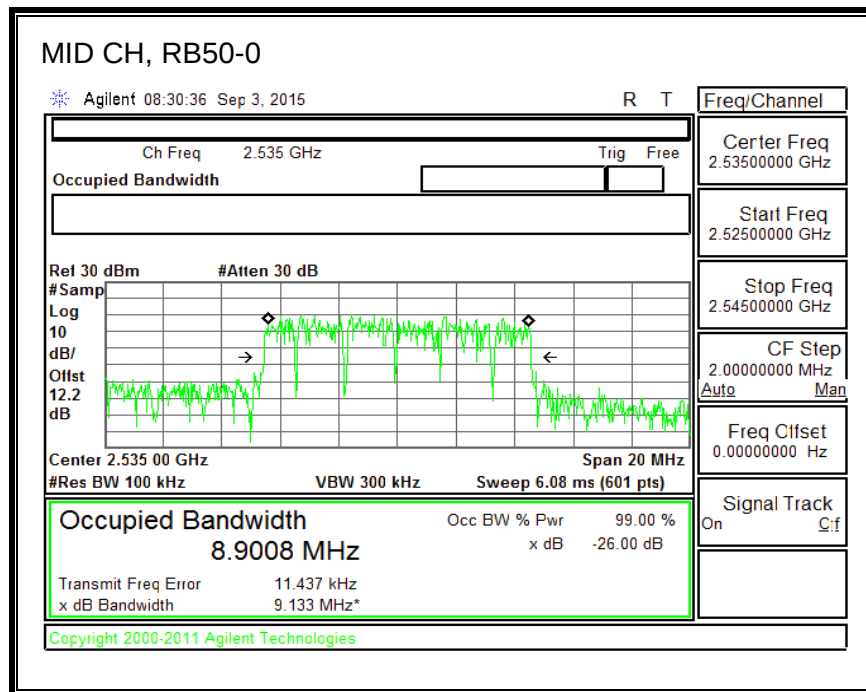
QPSK, (5.0 MHz BAND WIDTH)



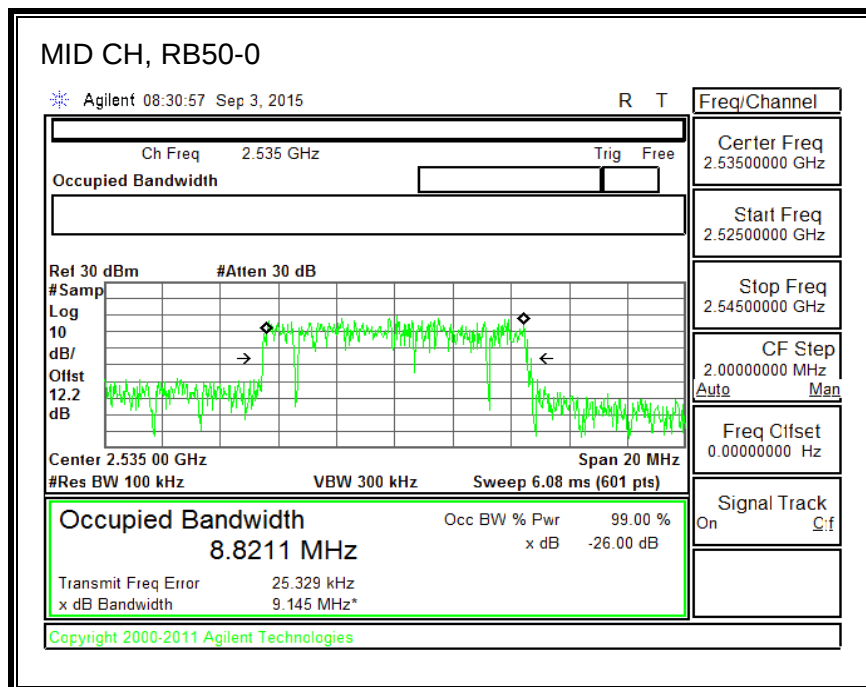
16QAM, (5.0 MHz BAND WIDTH)



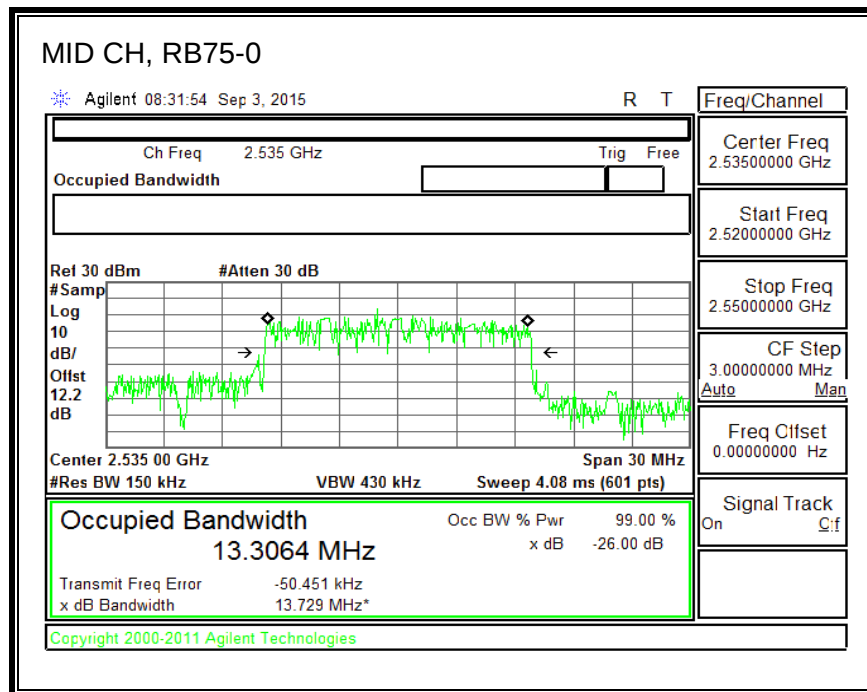
QPSK, (10.0 MHz BAND WIDTH)



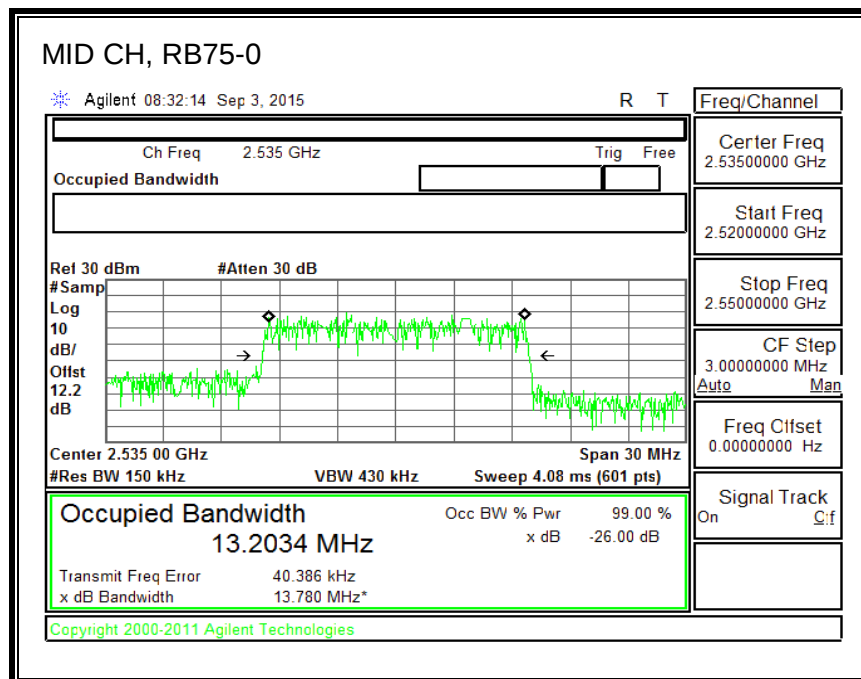
16QAM, (10.0 MHz BAND WIDTH)



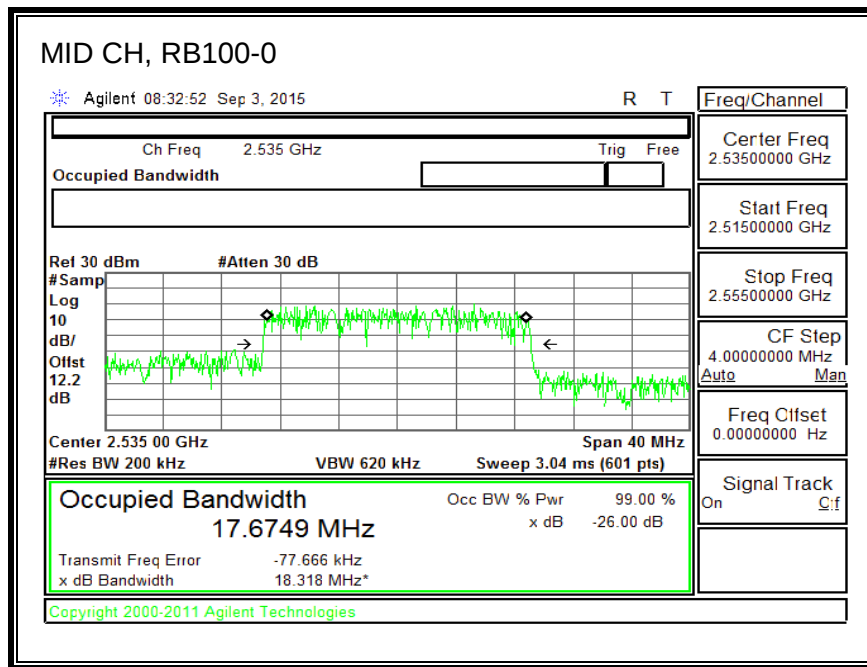
QPSK, (15.0 MHz BAND WIDTH)



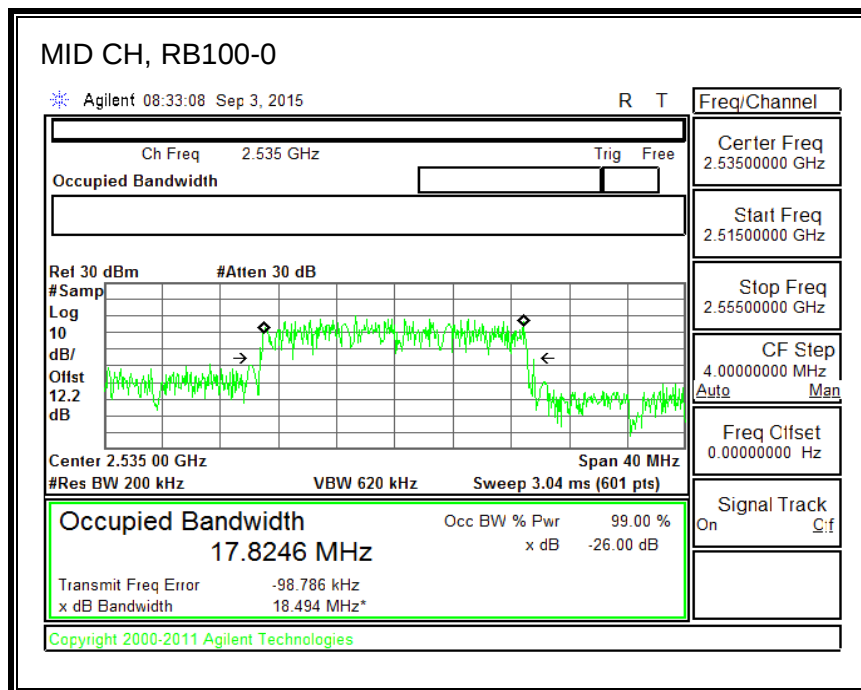
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

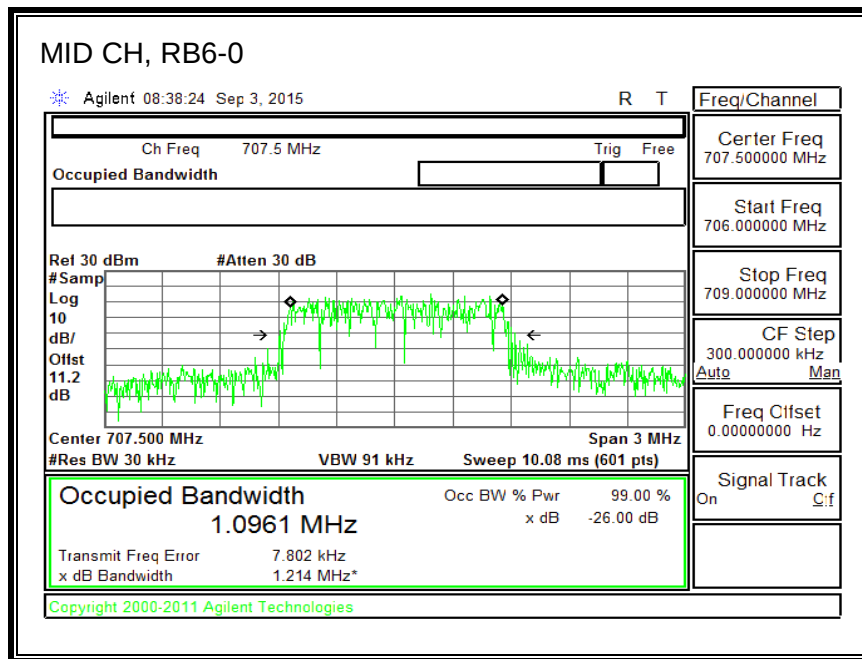


16QAM, (20.0 MHz BAND WIDTH)

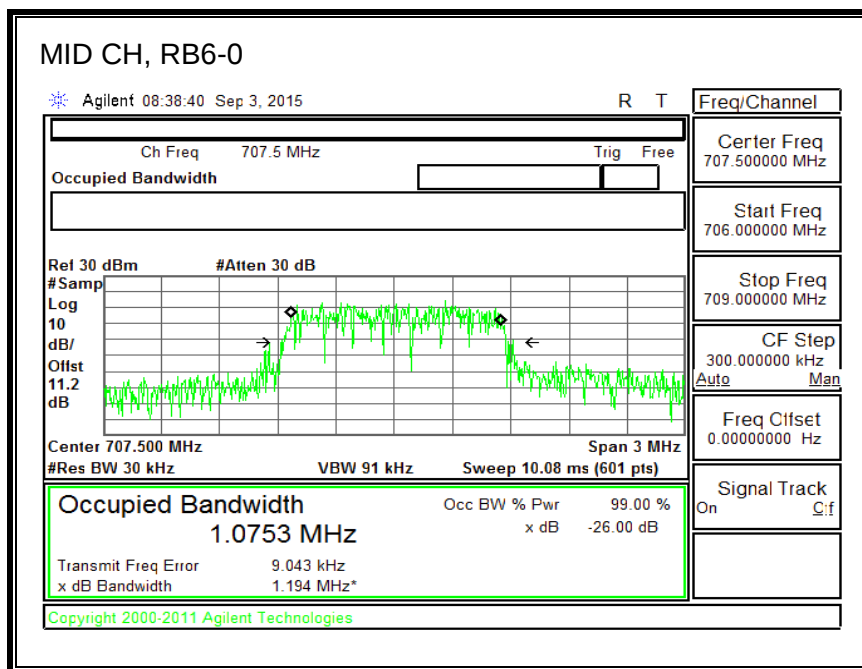


8.1.5. LTE BAND 12

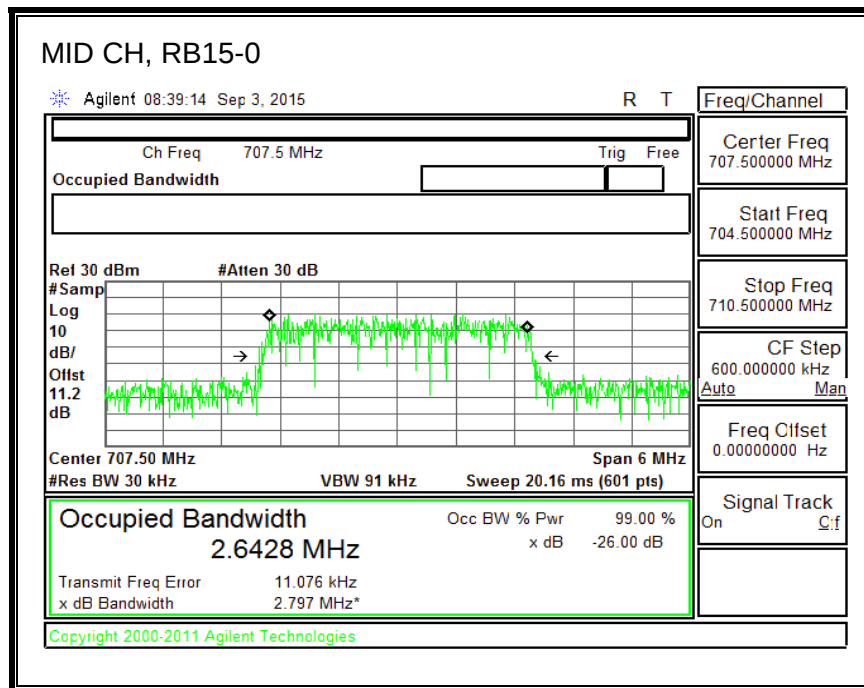
QPSK, (1.4 MHz BAND WIDTH)



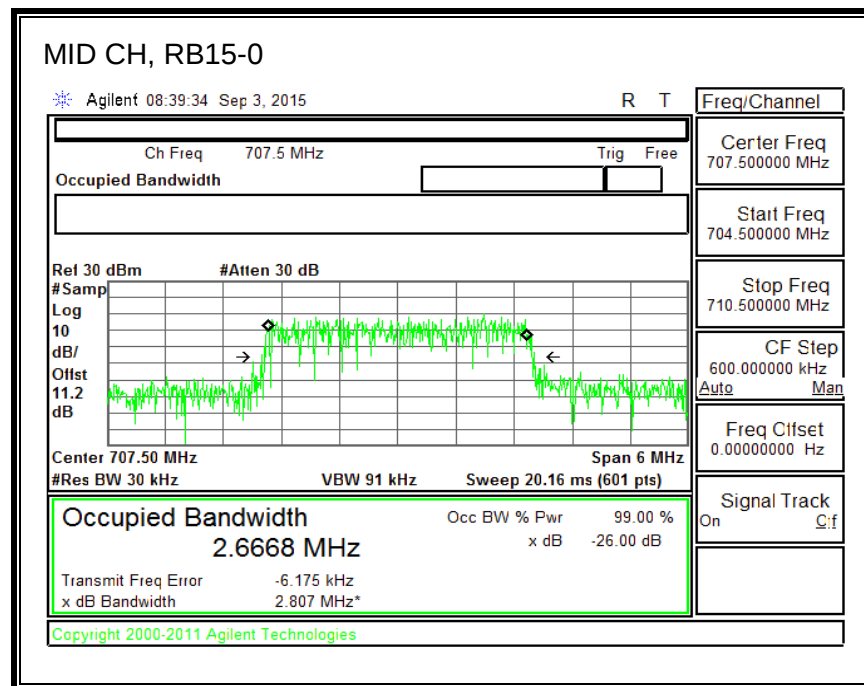
16QAM, (1.4 MHz BAND WIDTH)



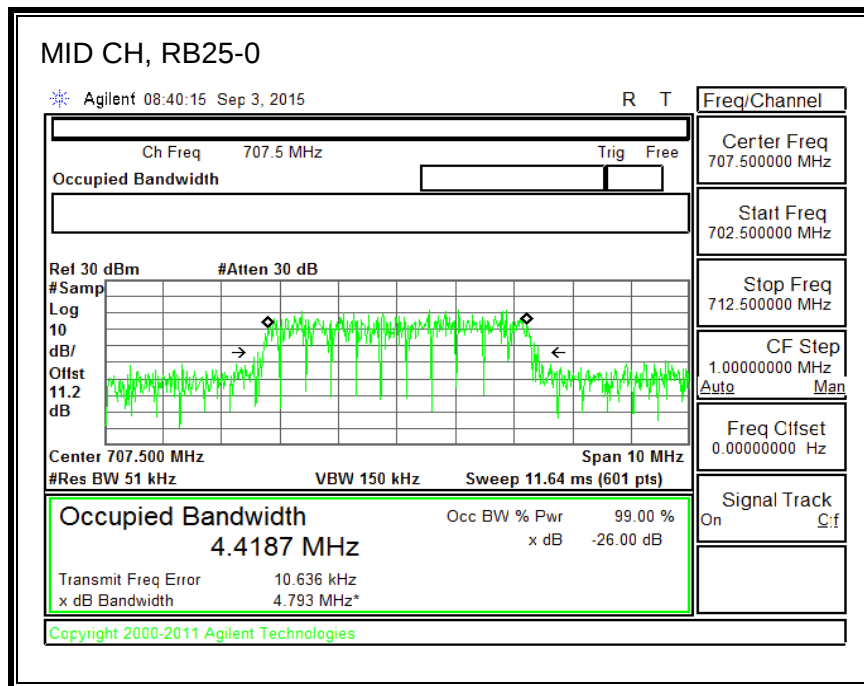
QPSK, (3.0 MHz BAND WIDTH)



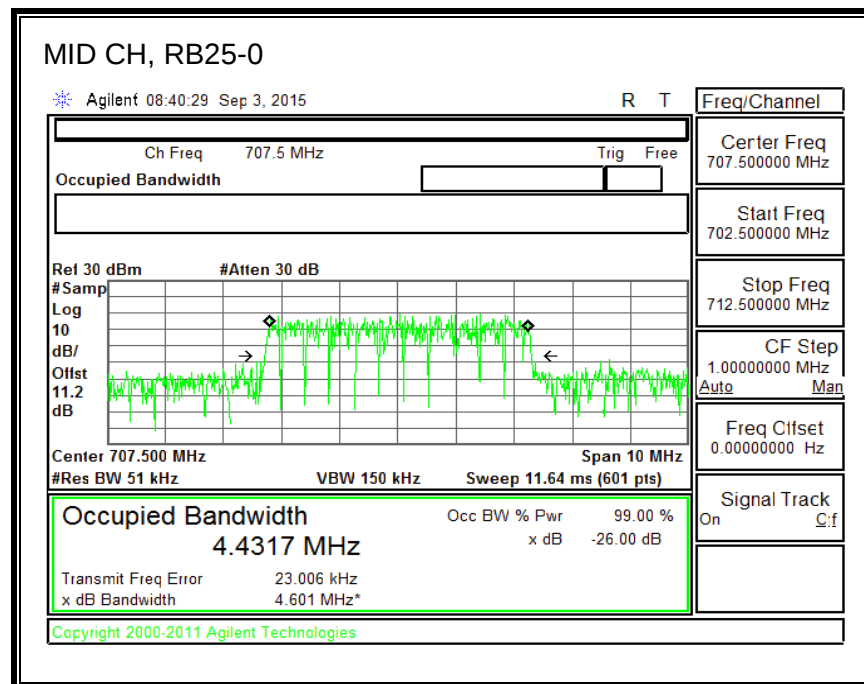
16QAM, (3.0 MHz BAND WIDTH)



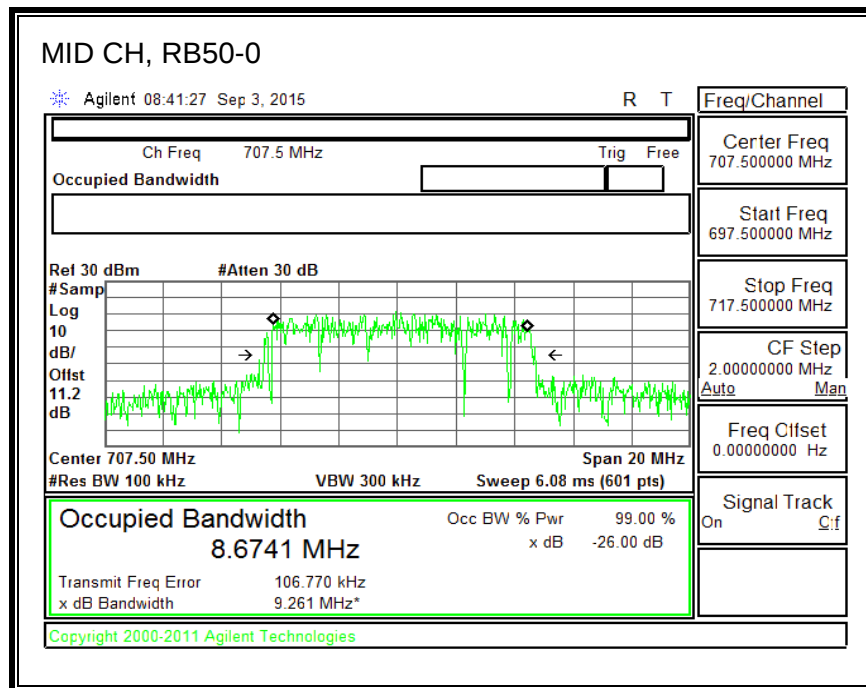
QPSK, (5.0 MHz BAND WIDTH)



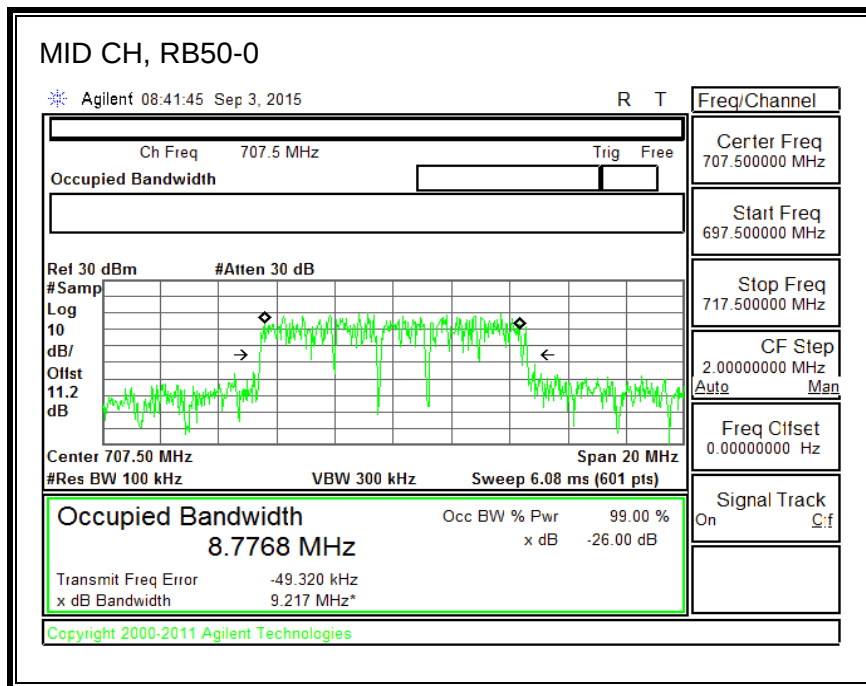
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

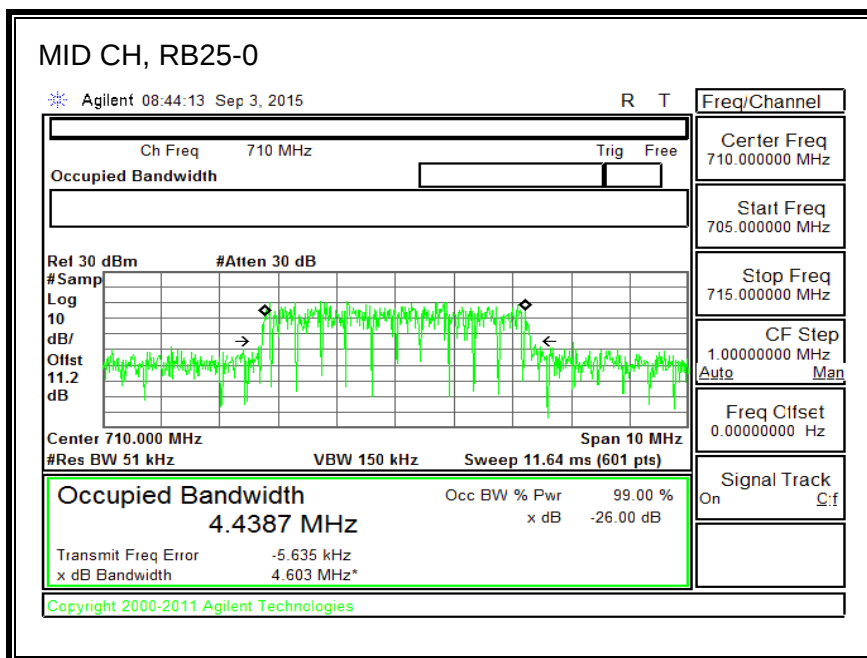


16QAM, (10.0 MHz BAND WIDTH)

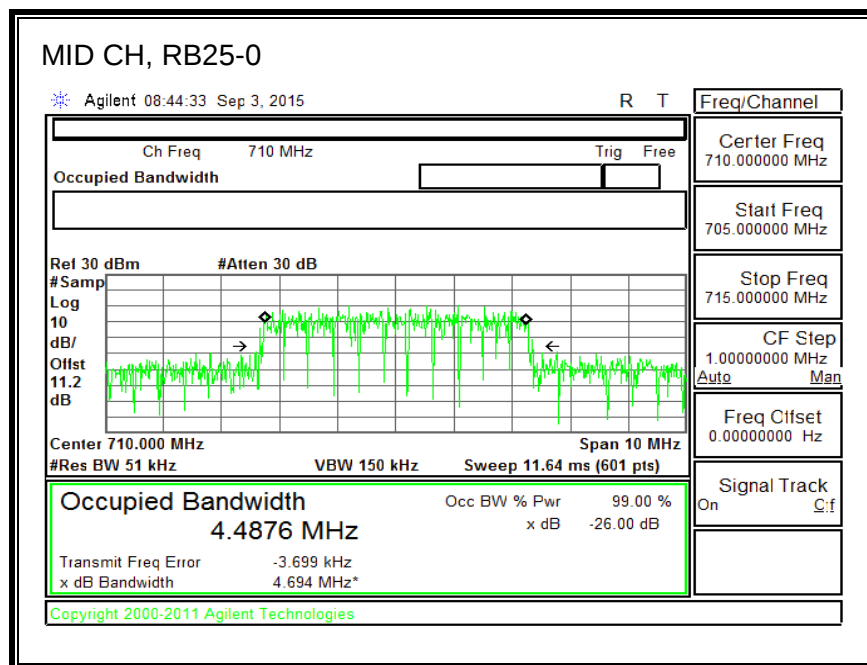


8.1.6. LTE BAND 17

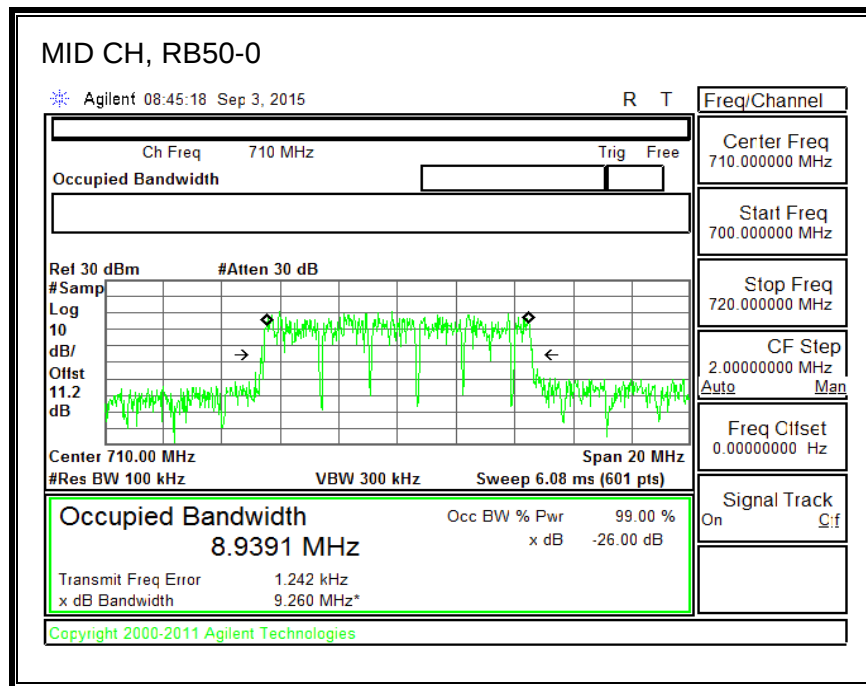
QPSK, (5.0 MHz BAND WIDTH)



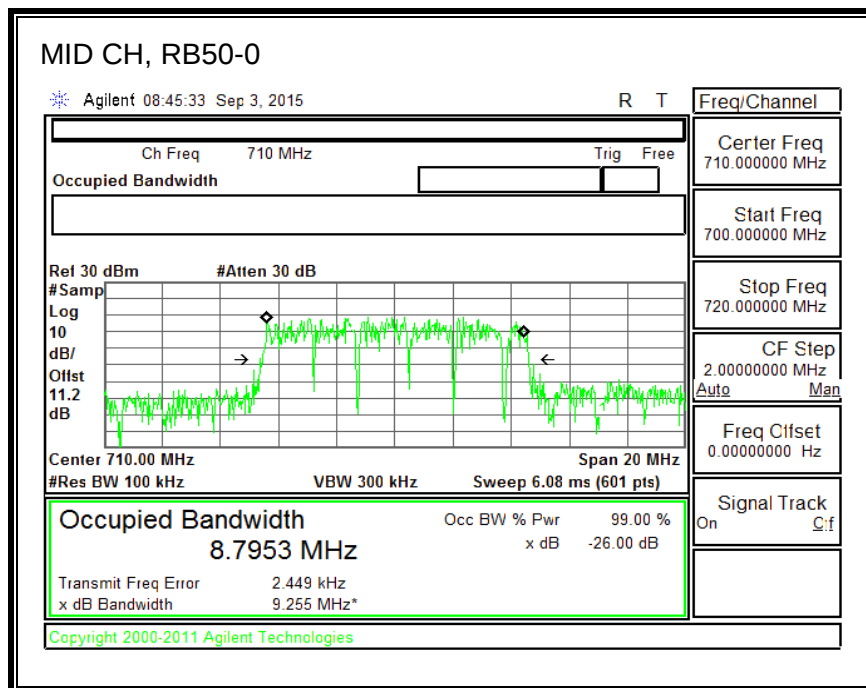
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

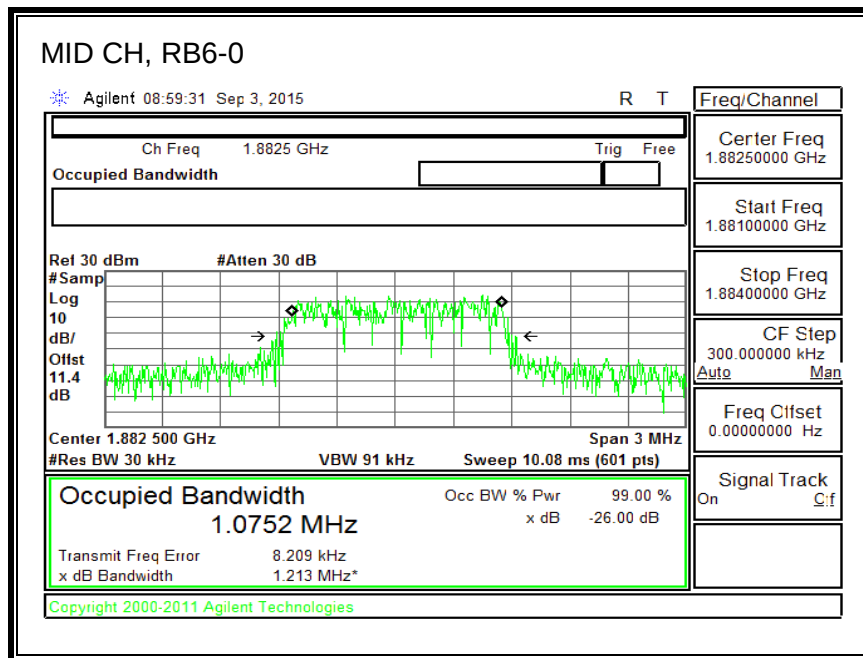


16QAM, (10.0 MHz BAND WIDTH)

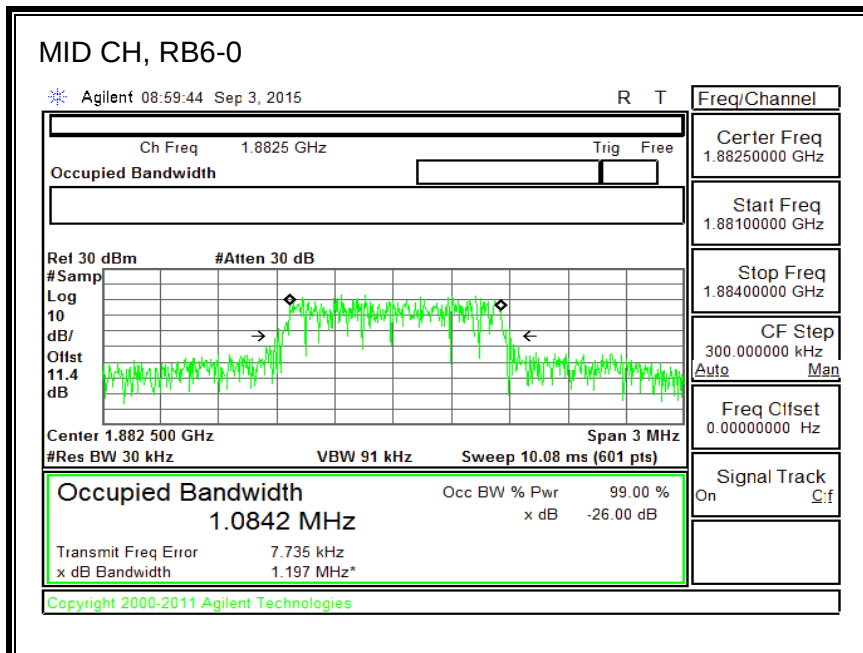


8.1.7. LTE BAND 25

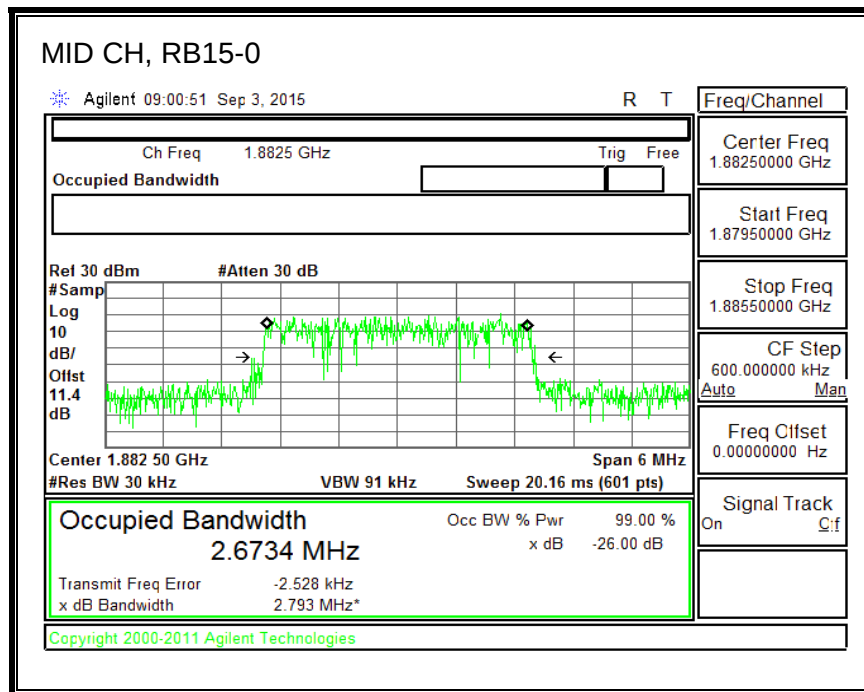
QPSK, (1.4 MHz BAND WIDTH)



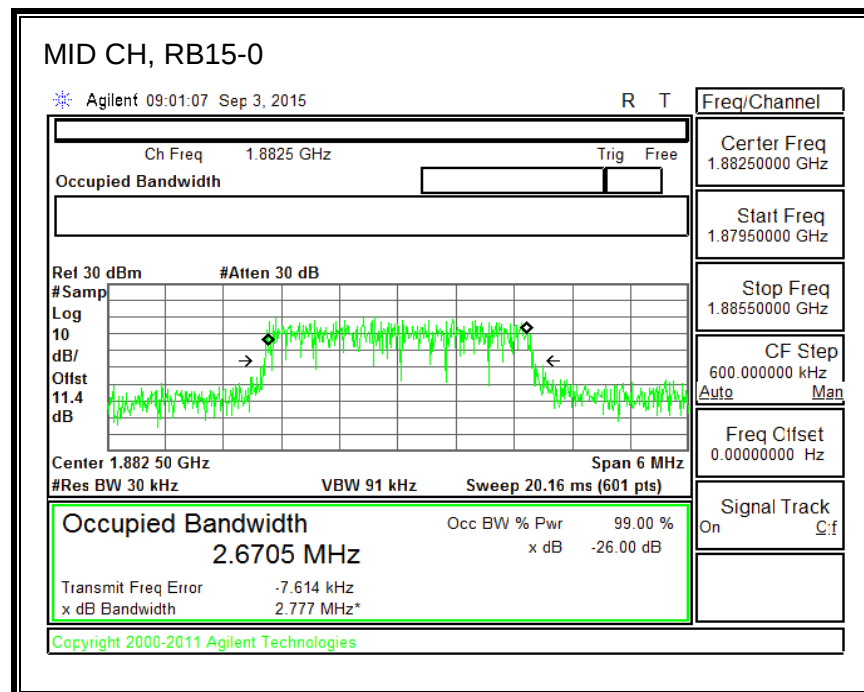
16QAM, (1.4 MHz BAND WIDTH)



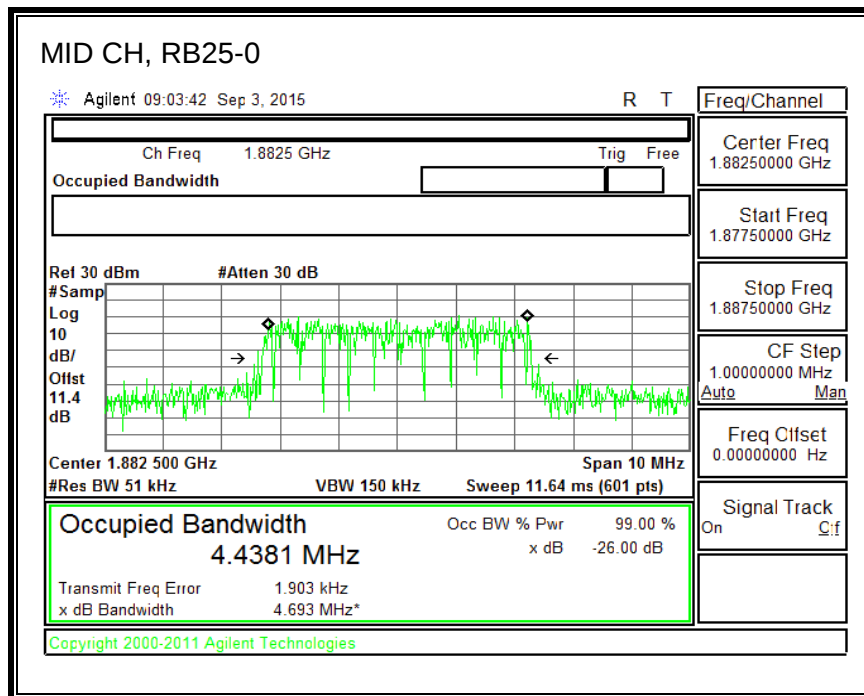
QPSK, (3.0 MHz BAND WIDTH)



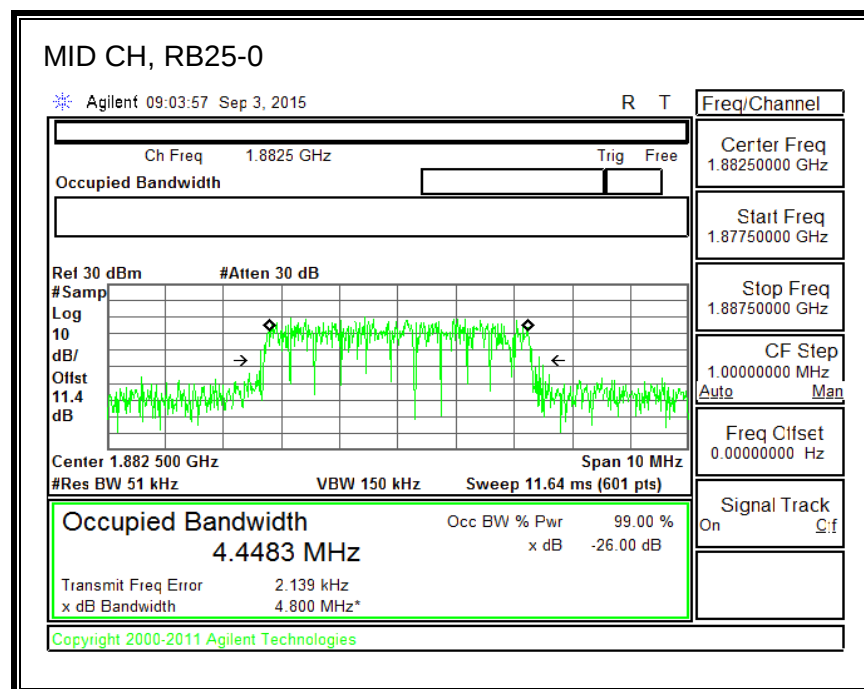
16QAM, (3.0 MHz BAND WIDTH)



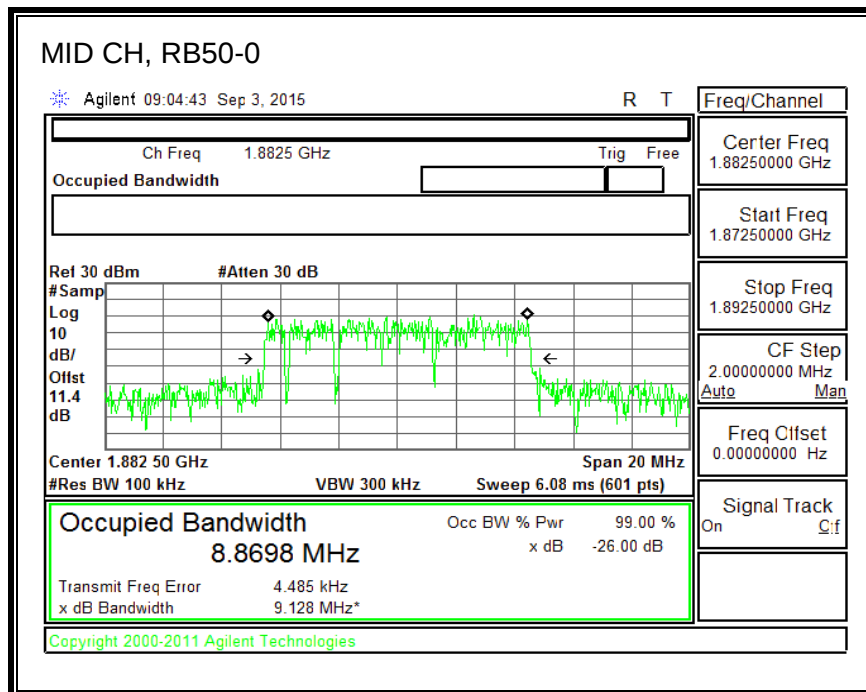
QPSK, (5.0 MHz BAND WIDTH)



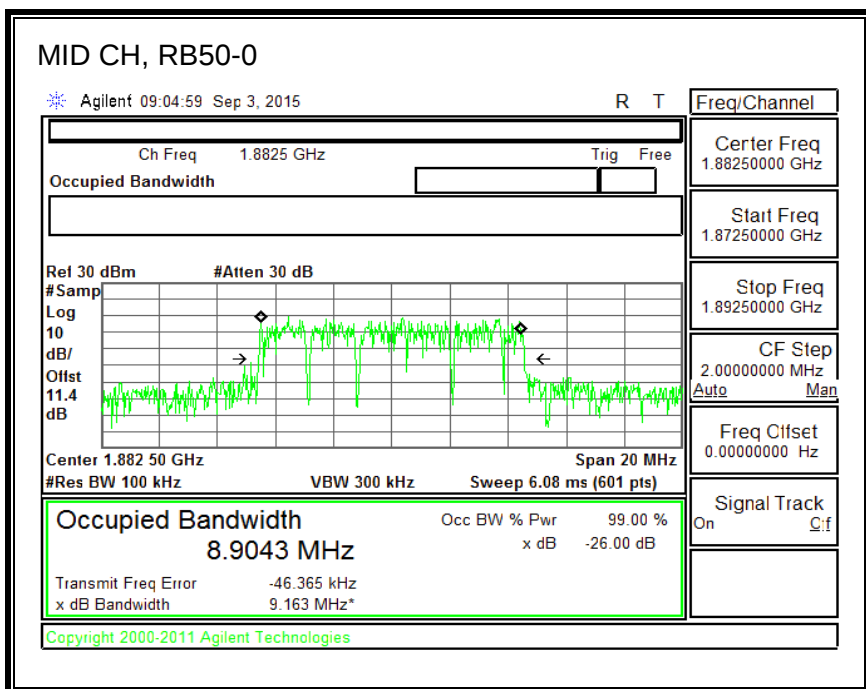
16QAM, (5.0 MHz BAND WIDTH)



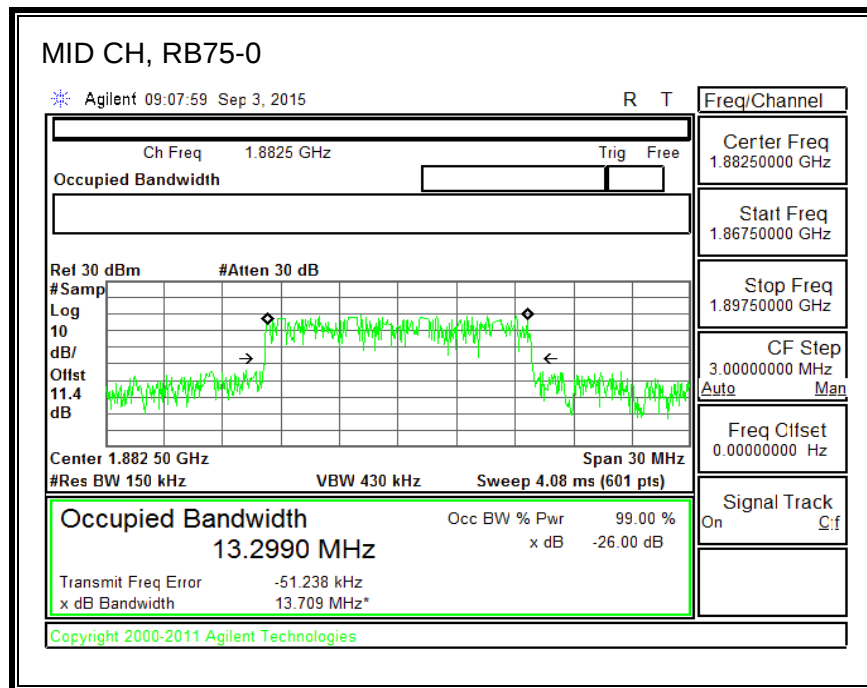
QPSK, (10.0 MHz BAND WIDTH)



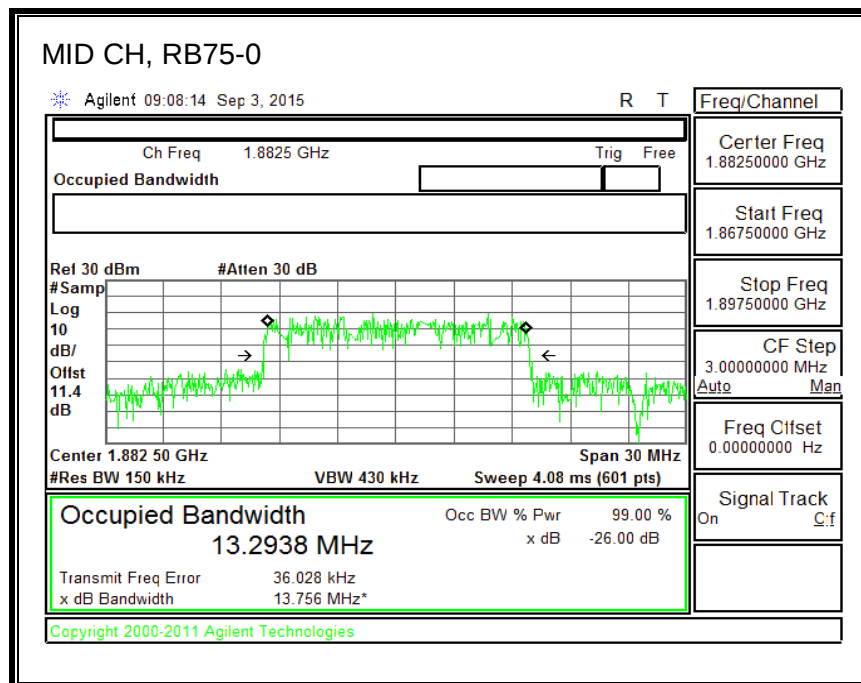
16QAM, (10.0 MHz BAND WIDTH)



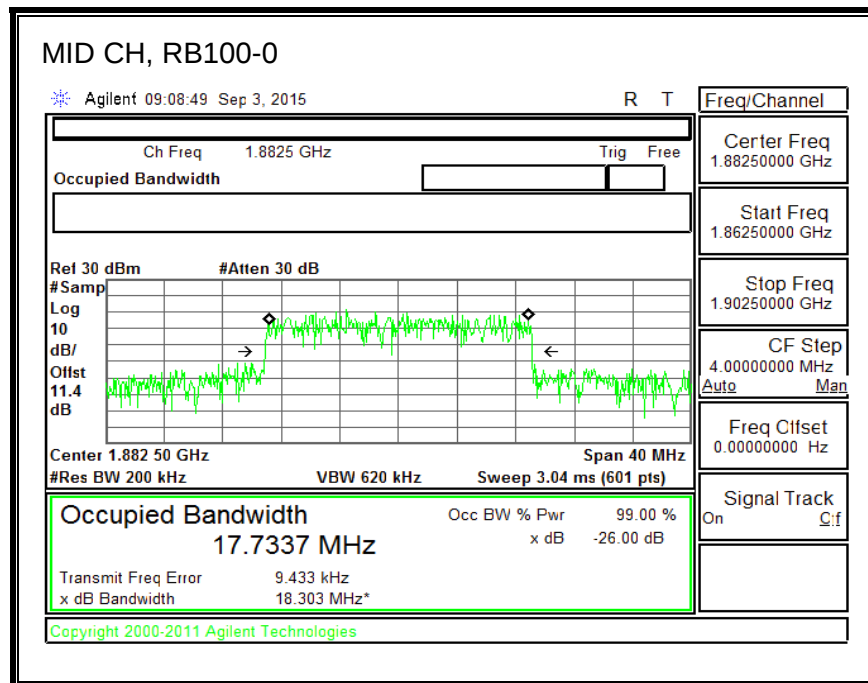
QPSK, (15.0 MHz BAND WIDTH)



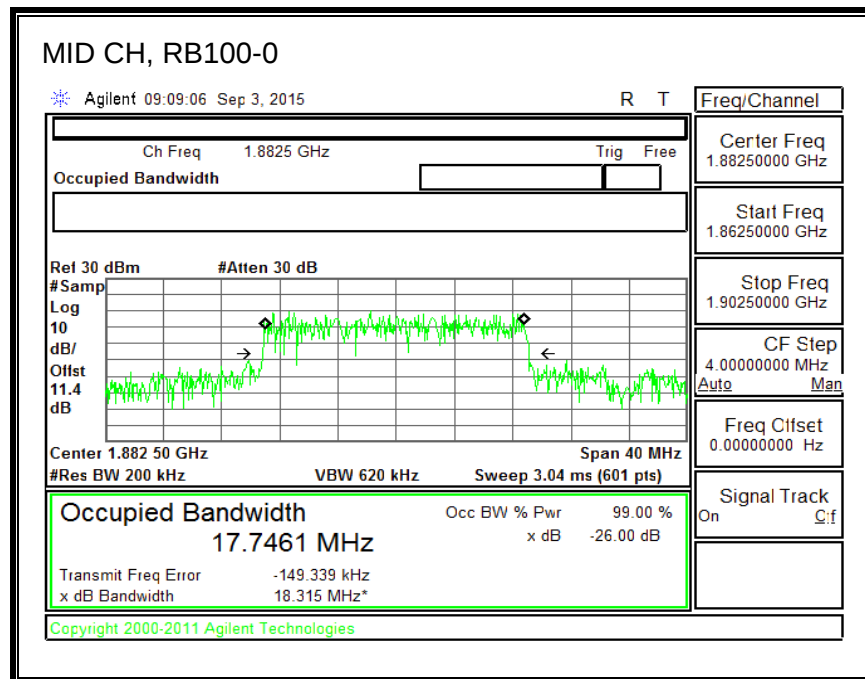
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

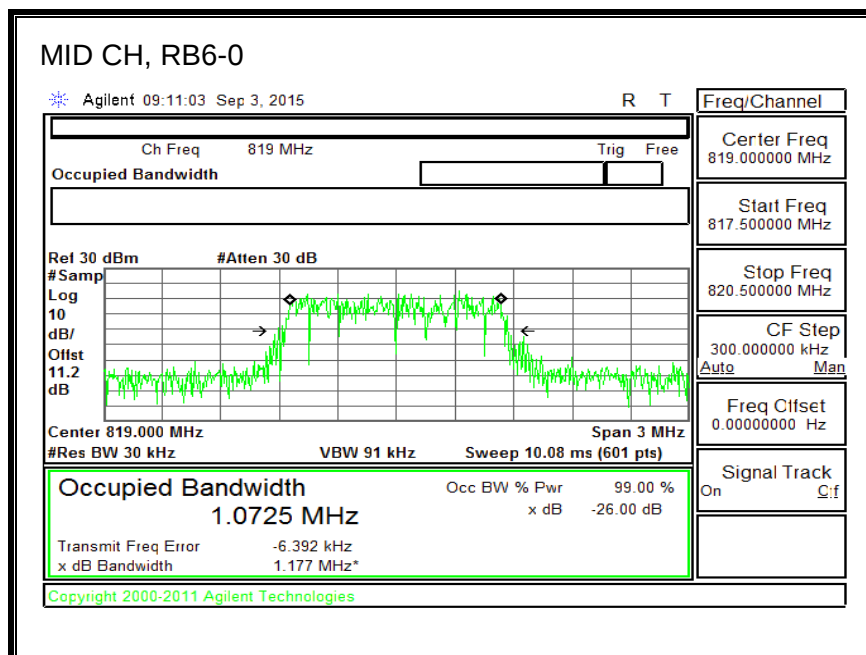
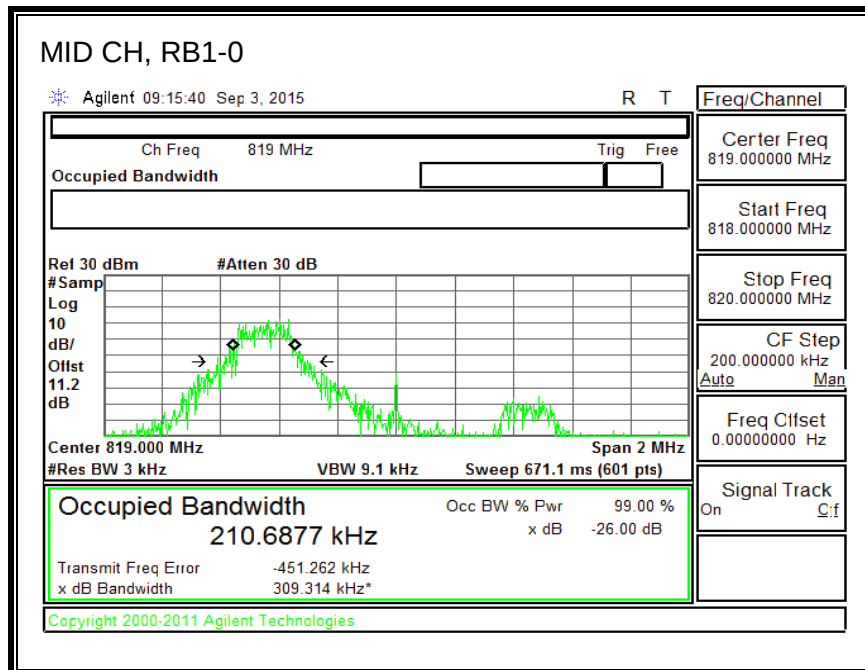


16QAM, (20.0 MHz BAND WIDTH)

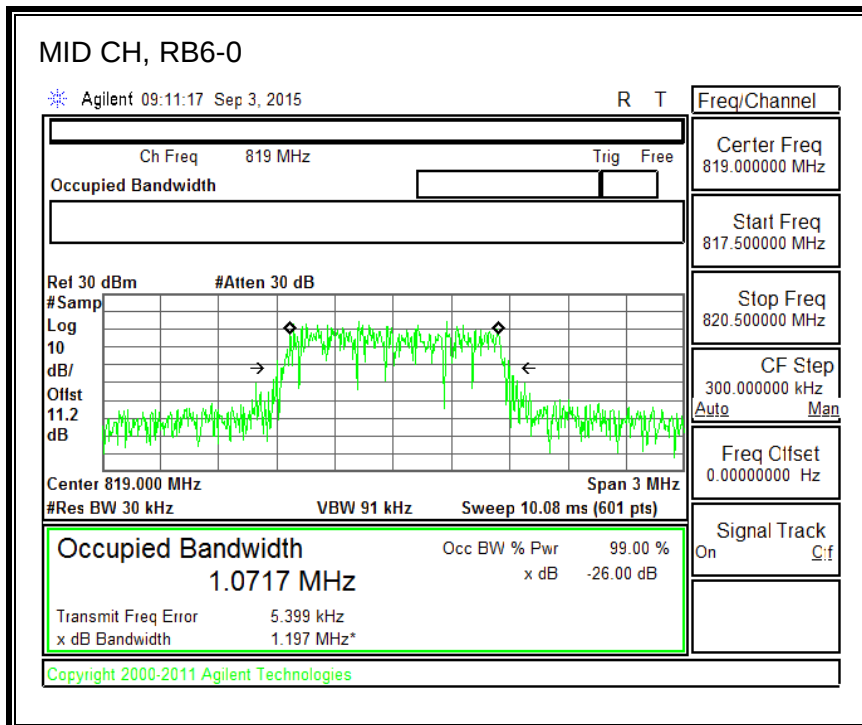
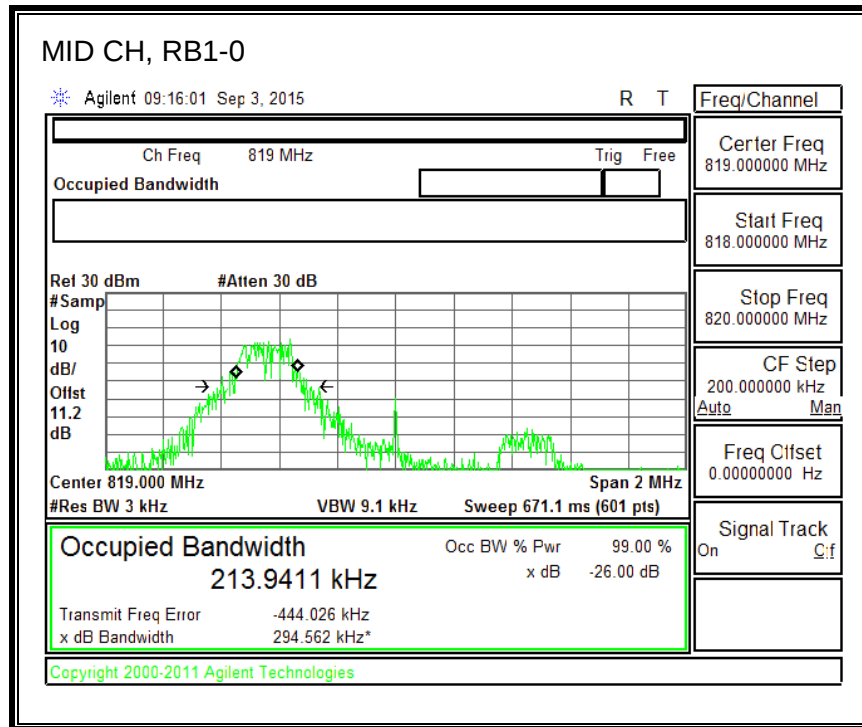


8.1.8. LTE BAND 26

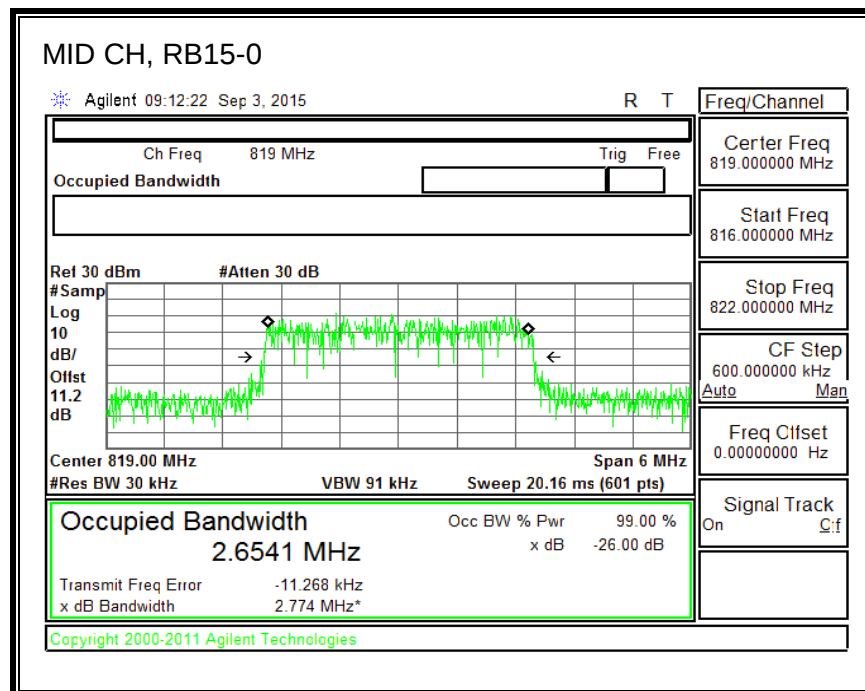
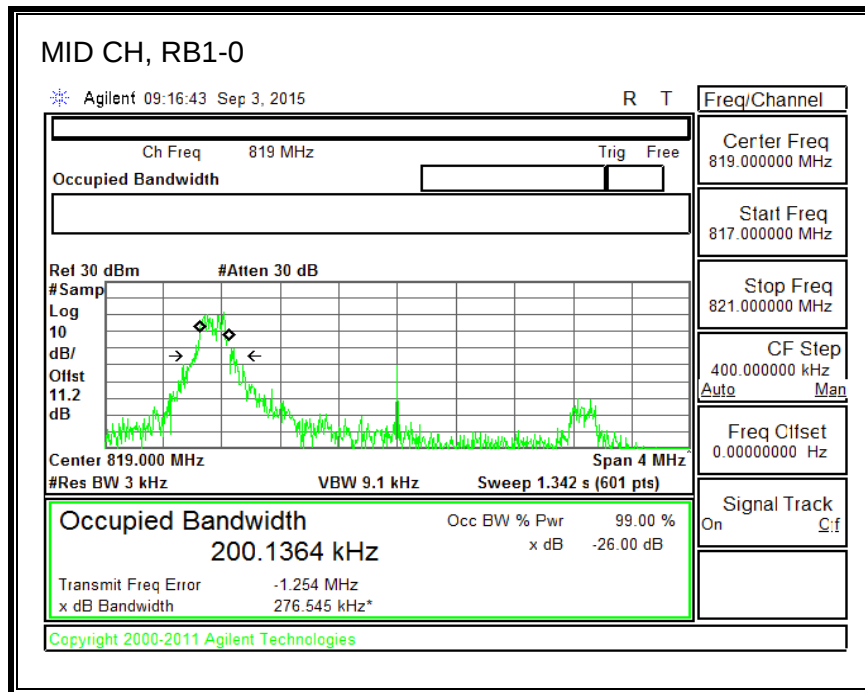
QPSK, (1.4 MHz BAND WIDTH)



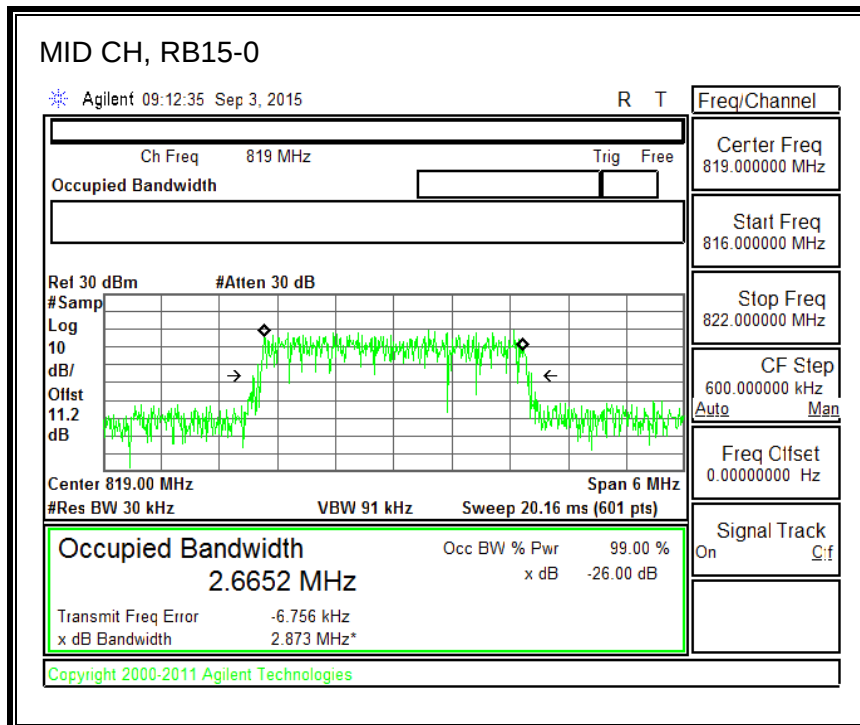
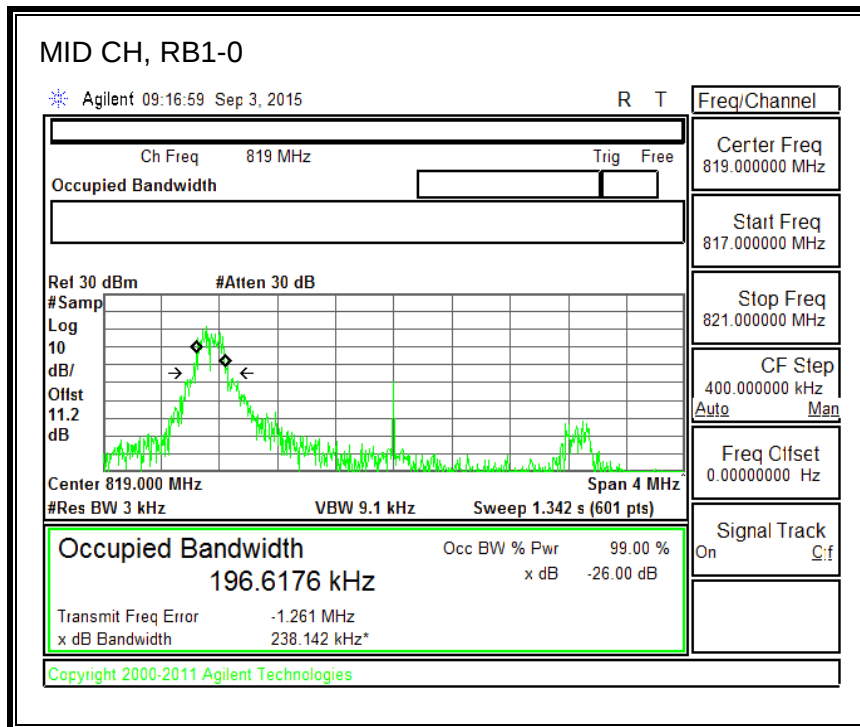
16QAM, (1.4 MHz BAND WIDTH)



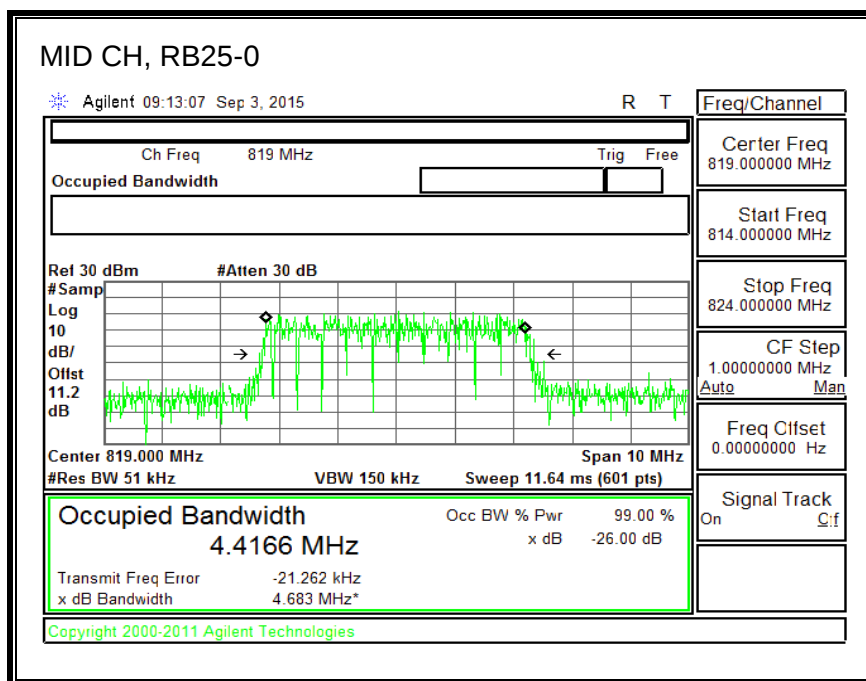
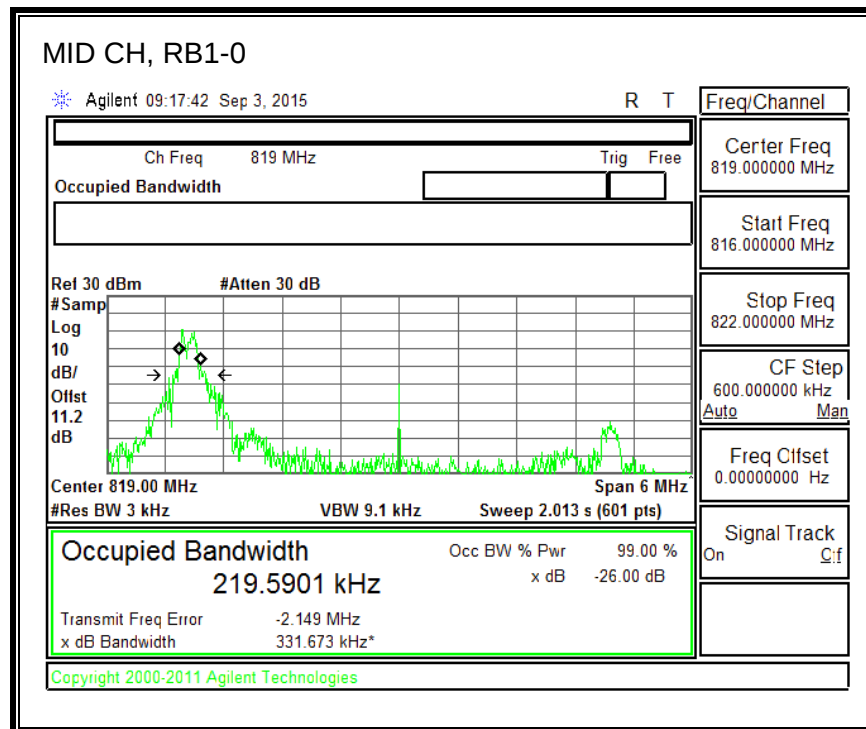
QPSK, (3.0 MHz BAND WIDTH)



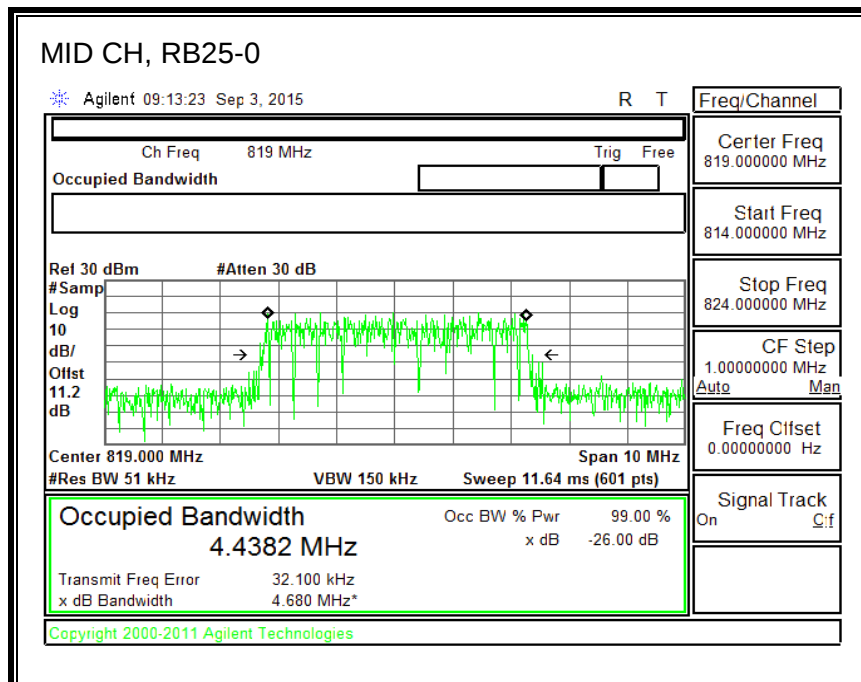
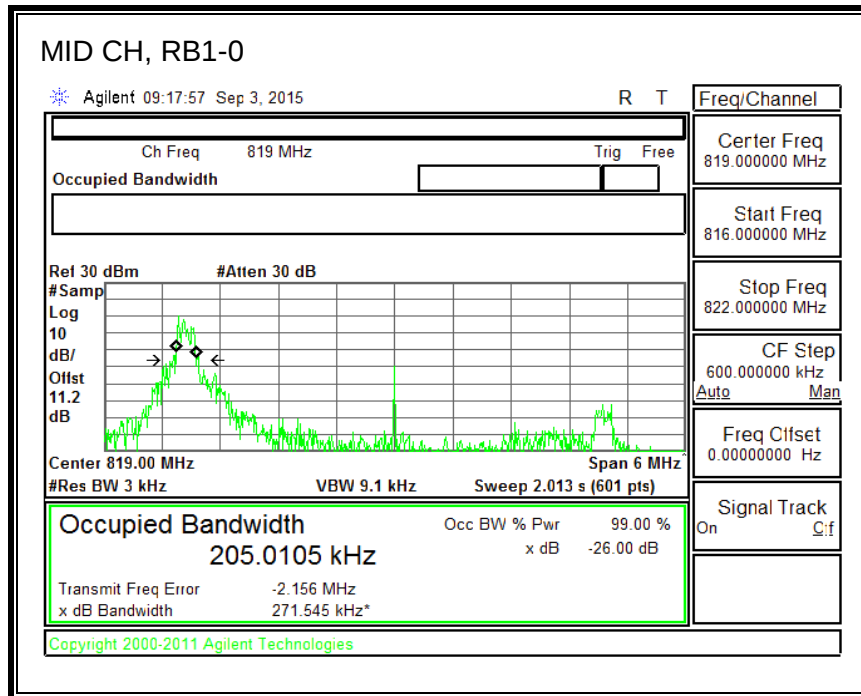
16QAM, (3.0 MHz BAND WIDTH)



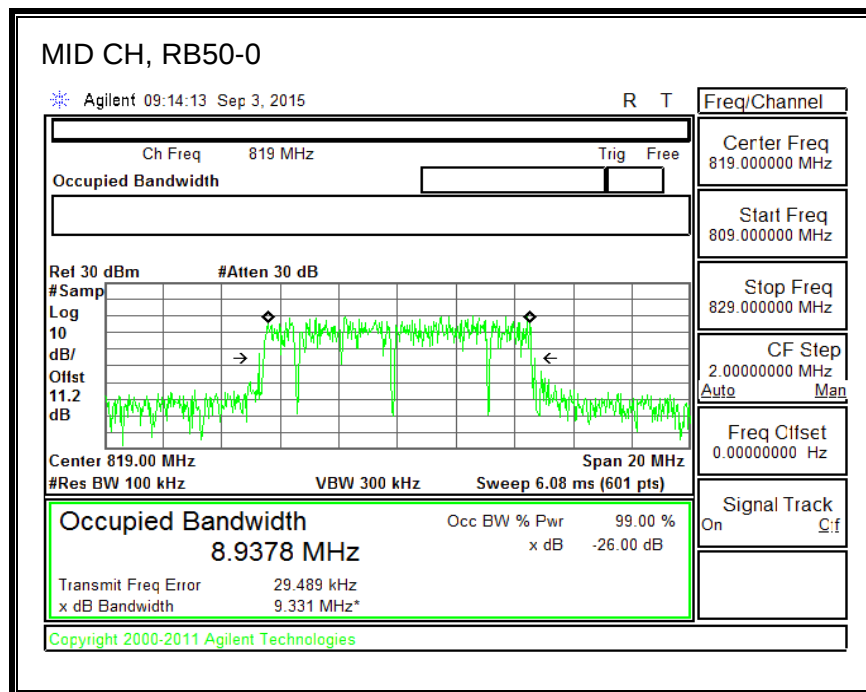
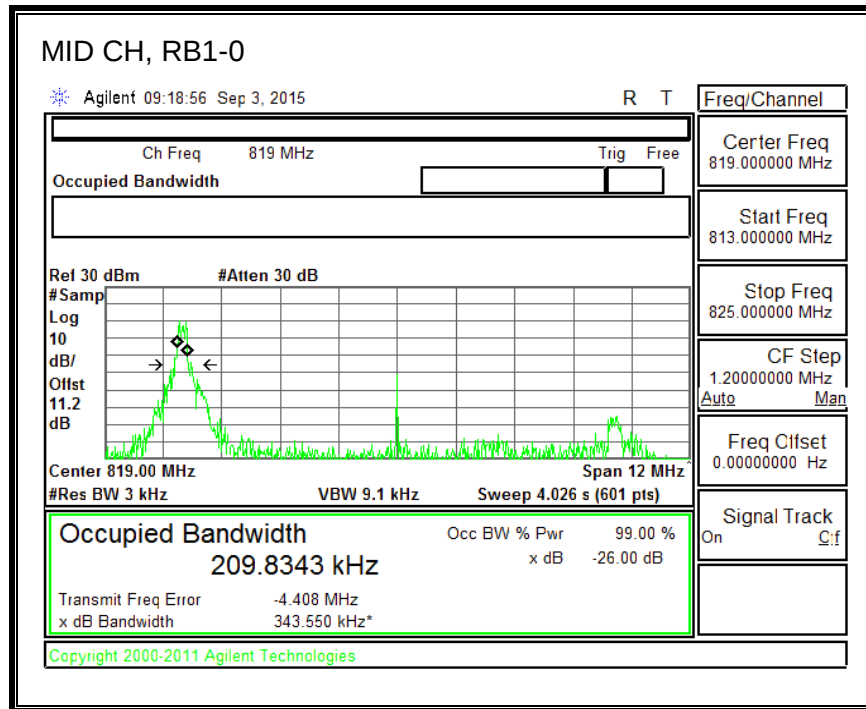
QPSK, (5.0 MHz BAND WIDTH)



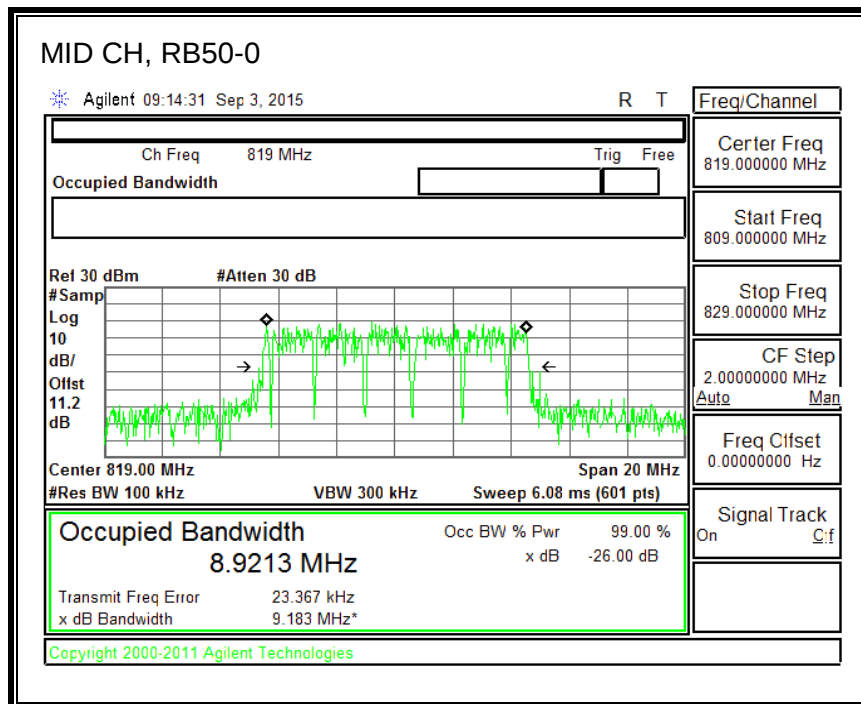
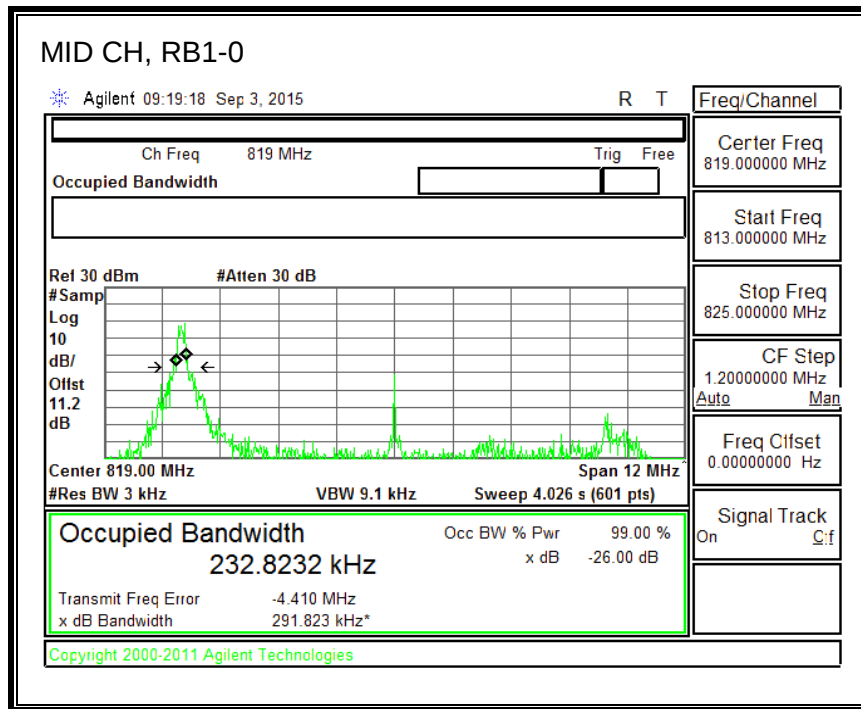
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

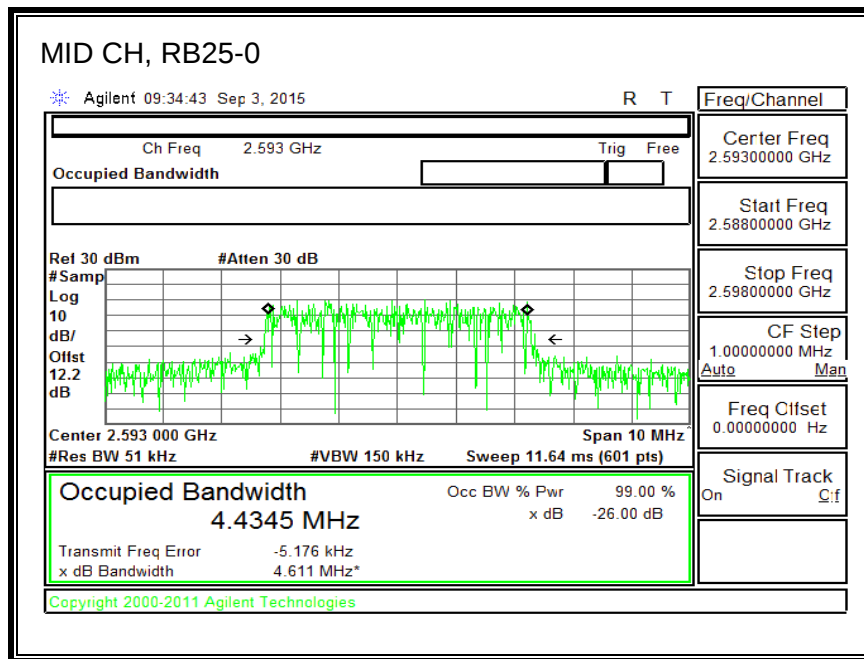


16QAM, (10.0 MHz BAND WIDTH)

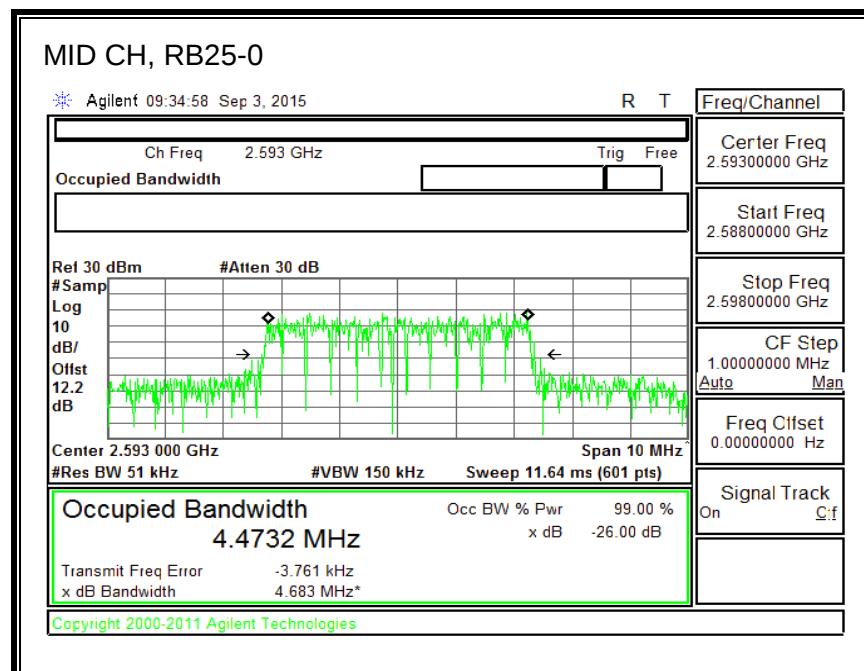


8.1.9. LTE BAND 41

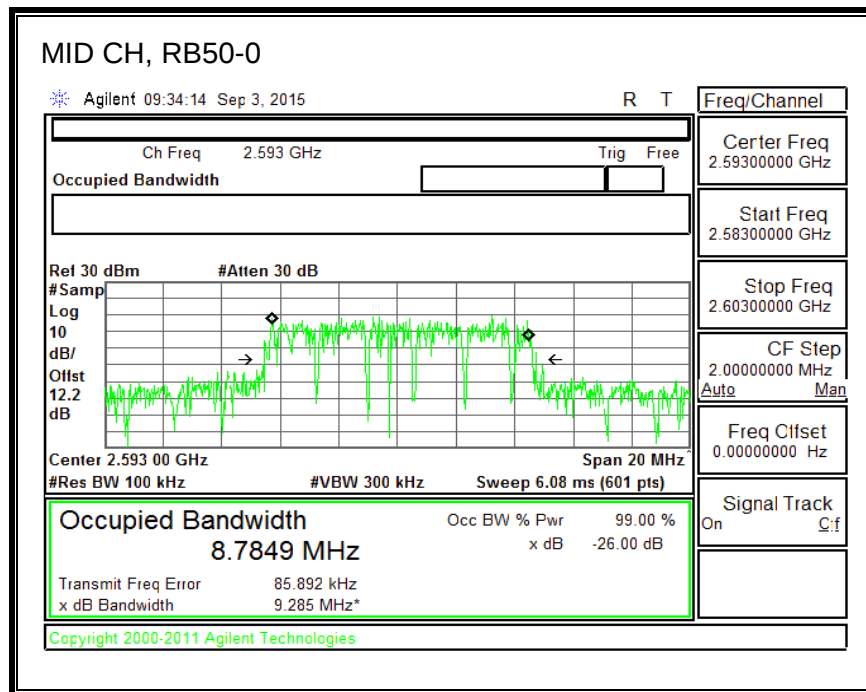
QPSK, (5.0 MHz BAND WIDTH)



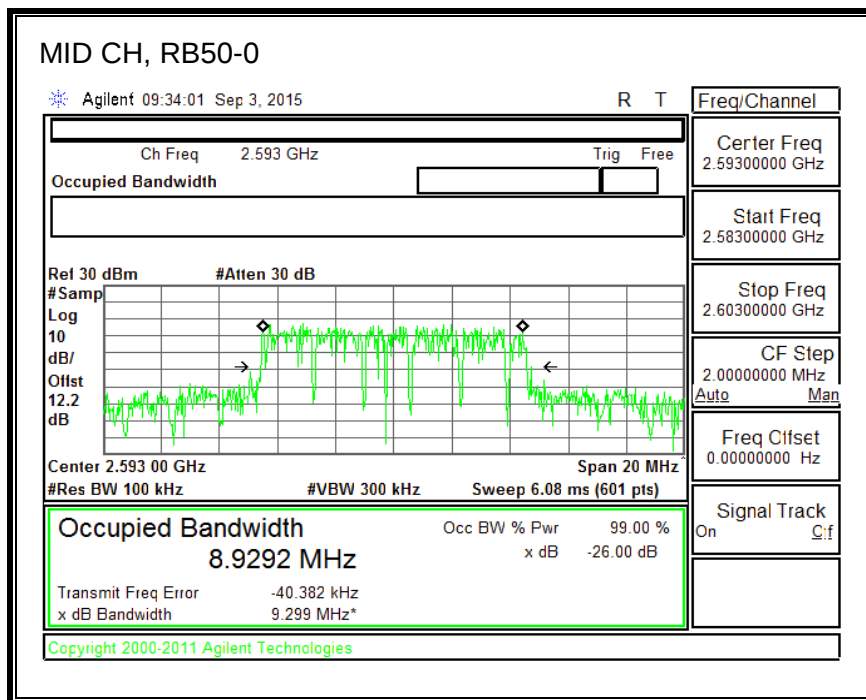
16QAM, (5.0 MHz BAND WIDTH)



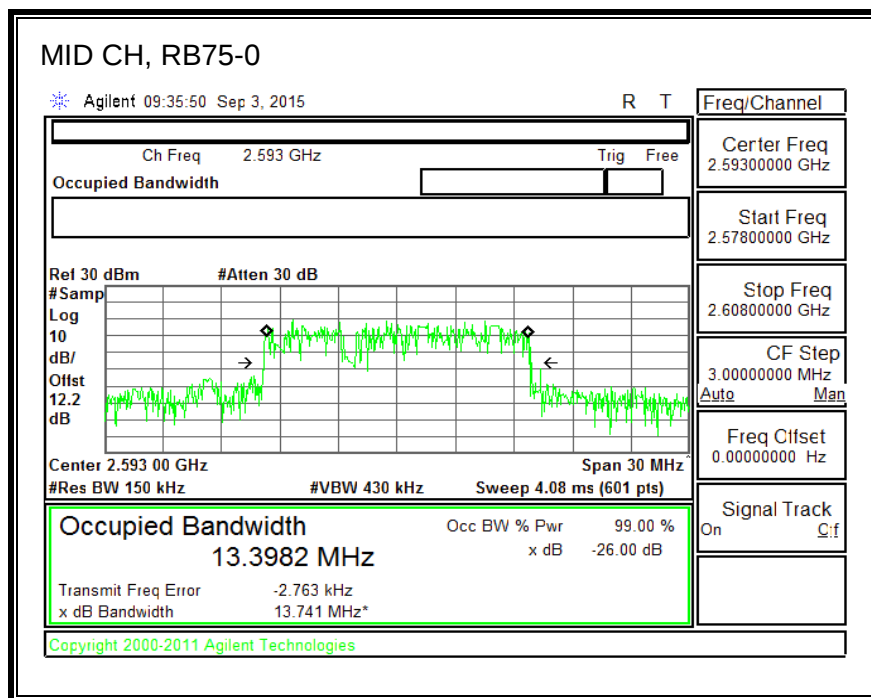
QPSK, (10.0 MHz BAND WIDTH)



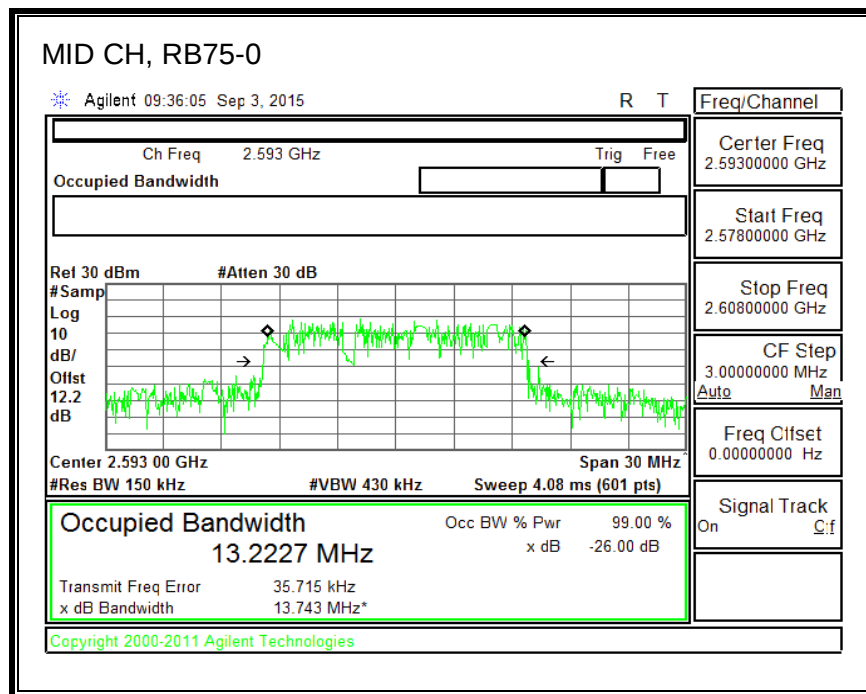
16QAM, (10.0 MHz BAND WIDTH)



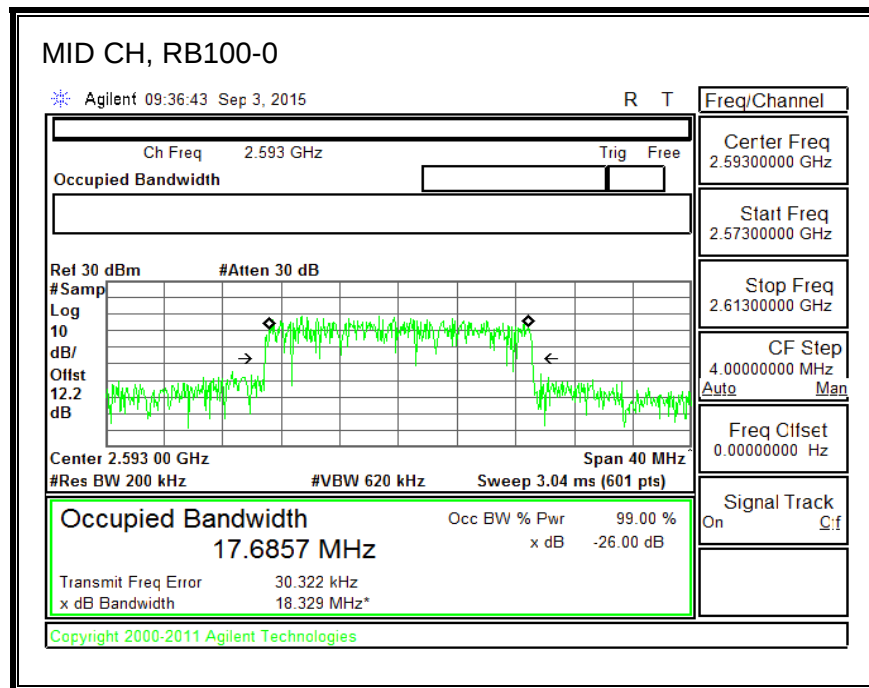
QPSK, (15.0 MHz BAND WIDTH)



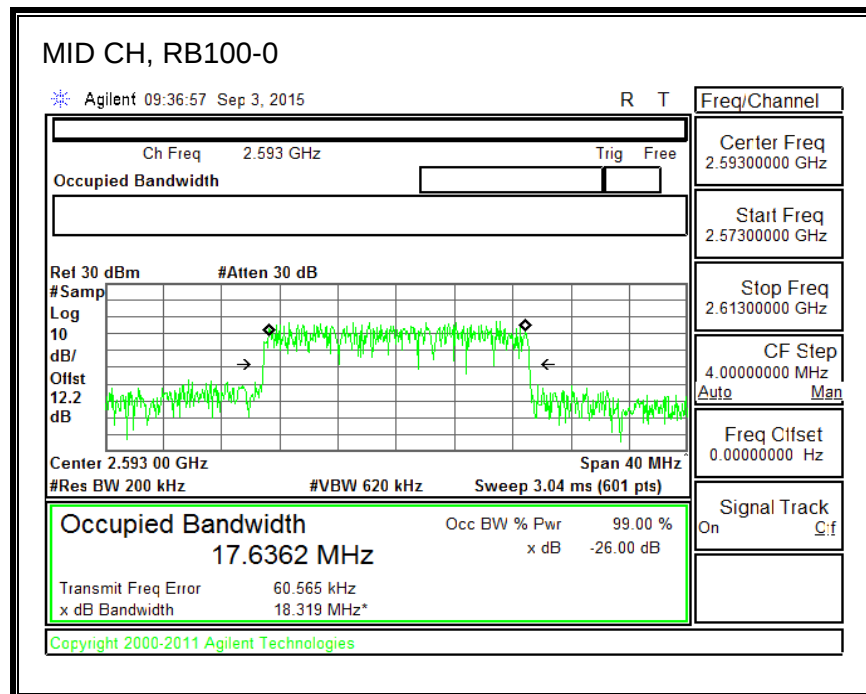
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)



16QAM, (20.0 MHz BAND WIDTH)



8.2. BANDEDGE AND EMISSION MASK

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691

LIMITS

FCC: §24.238, §27.53

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.

FCC: §90.210, and §90.691 (LTE BAND 26)

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

(a)(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FCC: §27.53

(c) 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;

(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;

(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;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC: §27.53 (LTE BAND 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency (704, 716, 824, 849, 1710 and 1755, 1850 and 1910MHz)

Set a marker to point the corresponding band edge frequency in each test case.

Set display line at -13 dBm

Set resolution bandwidth to at least 1% of emission bandwidth.

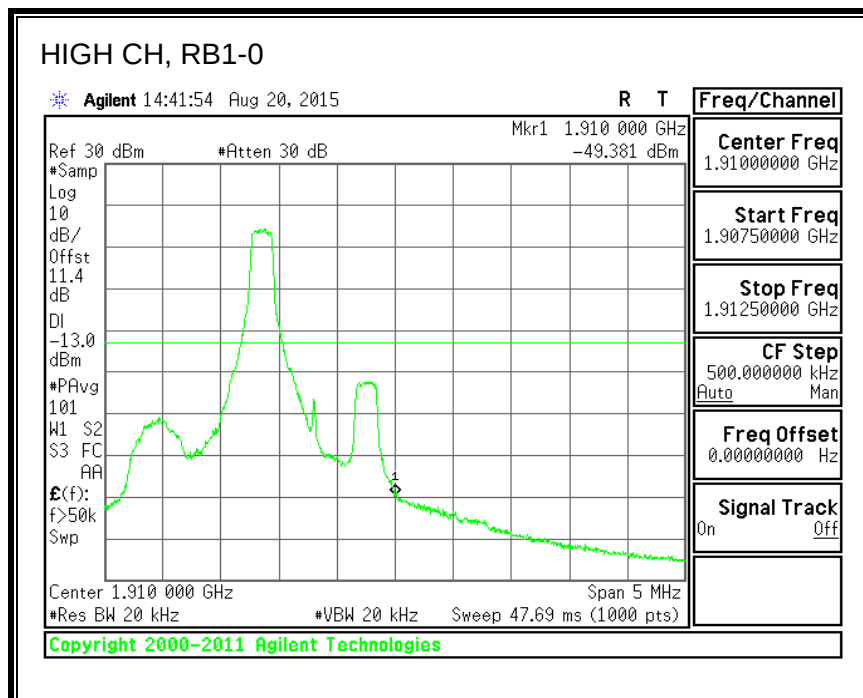
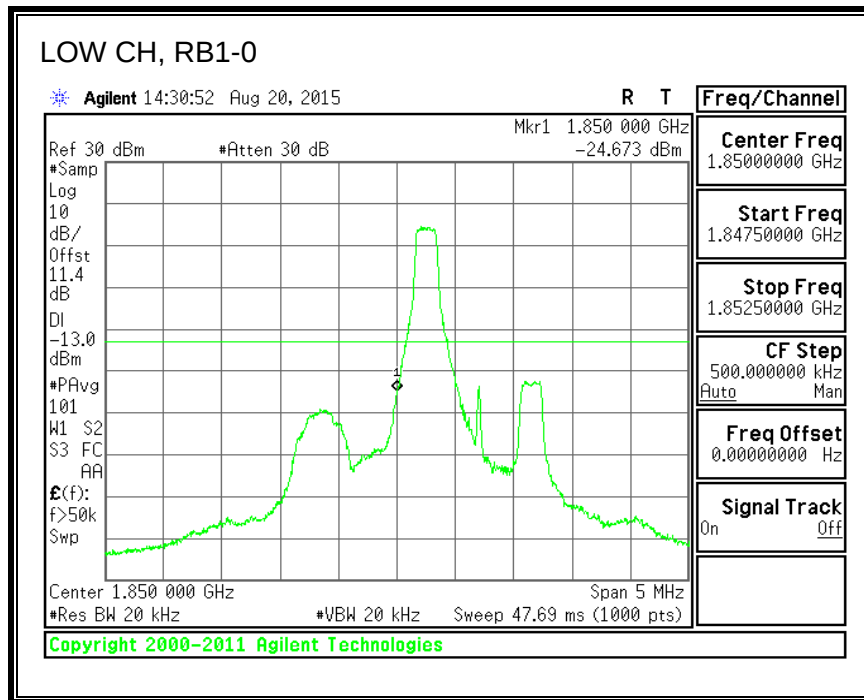
MODES TESTED

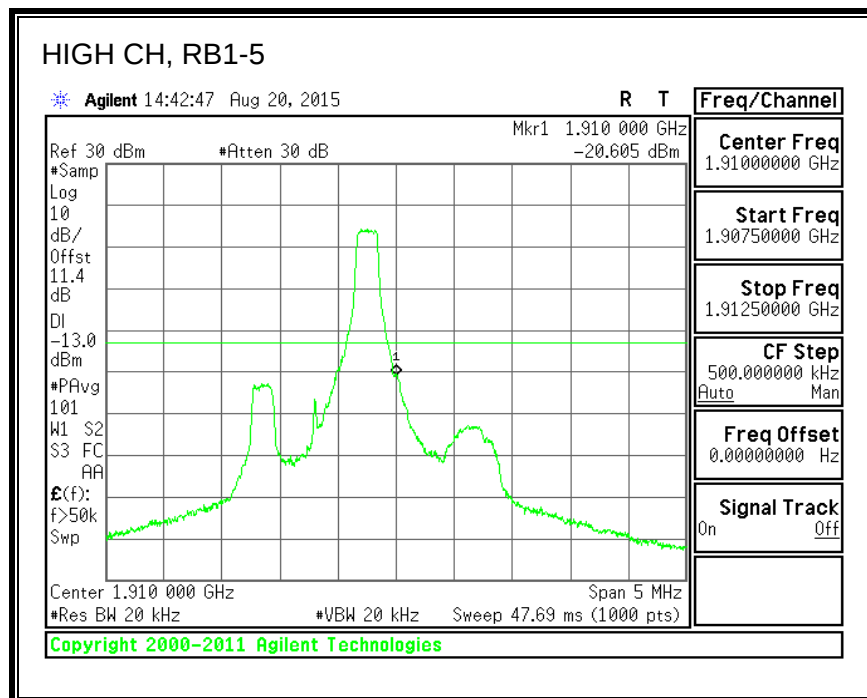
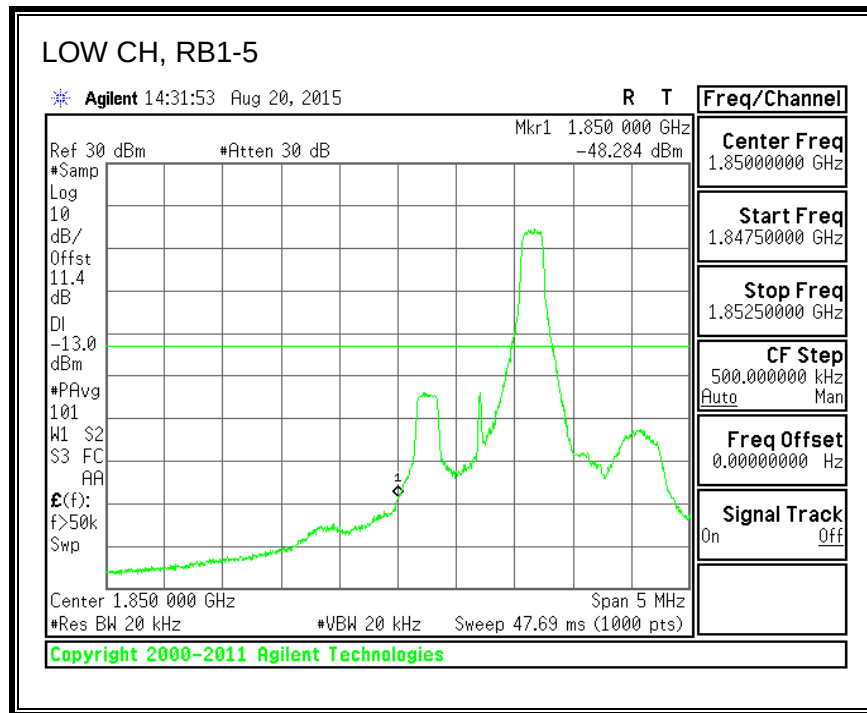
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- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

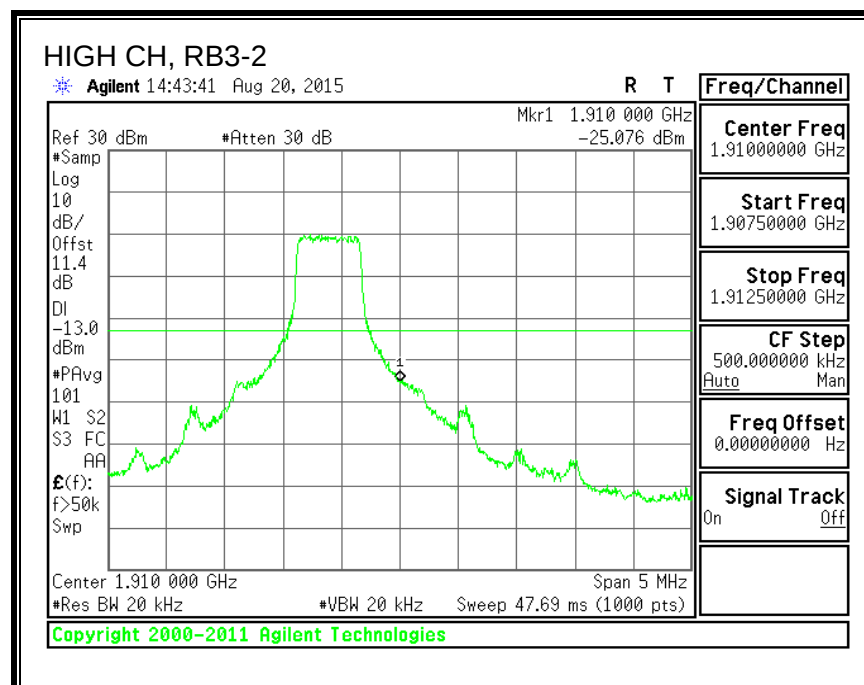
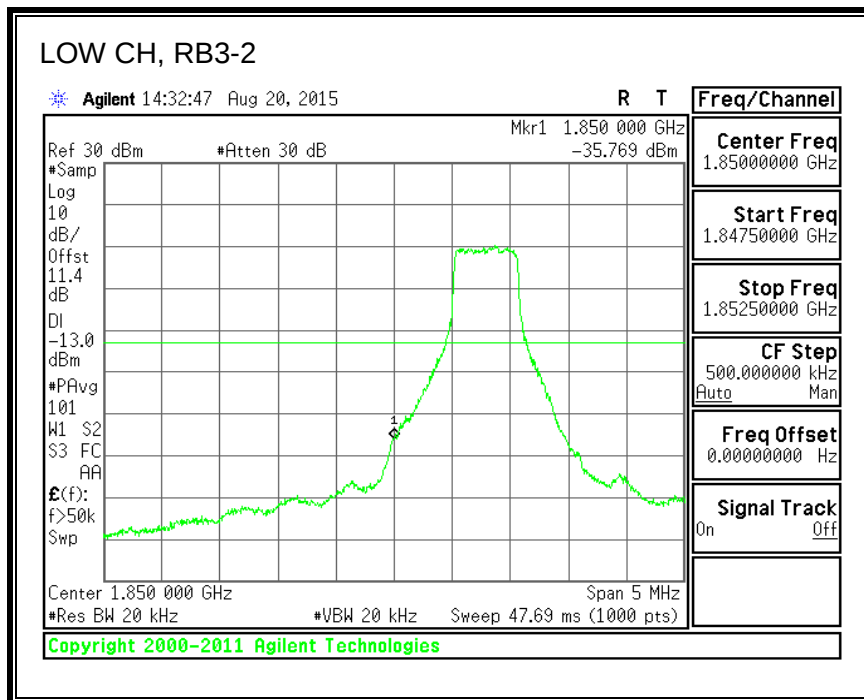
RESULTS

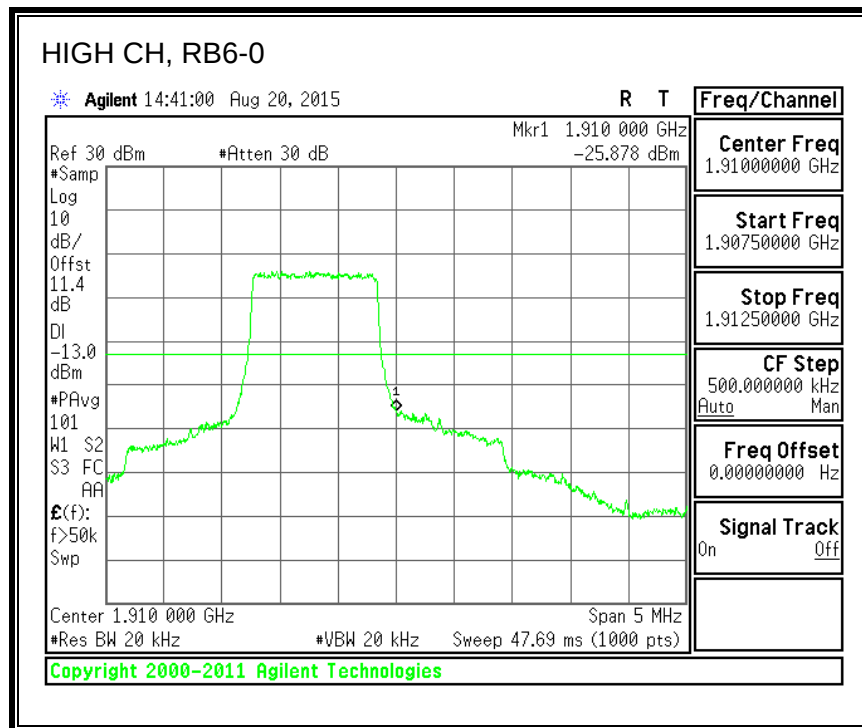
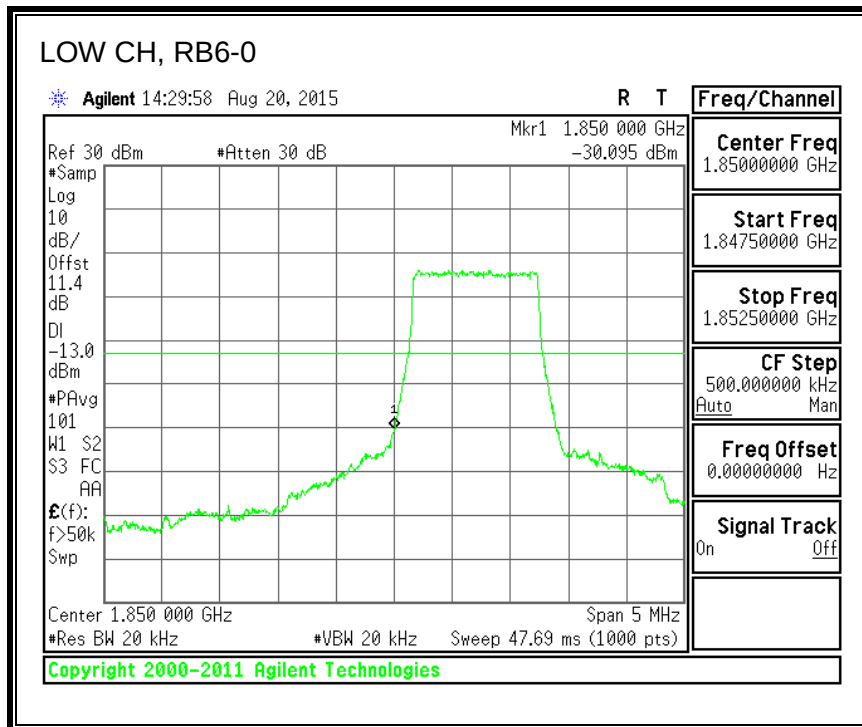
8.2.1. LTE BAND 2 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

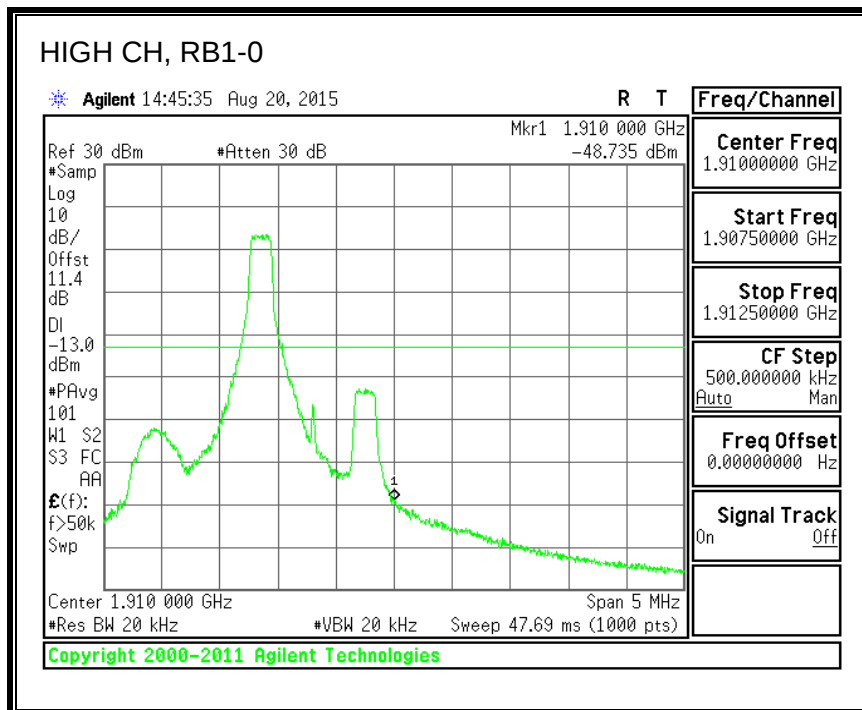
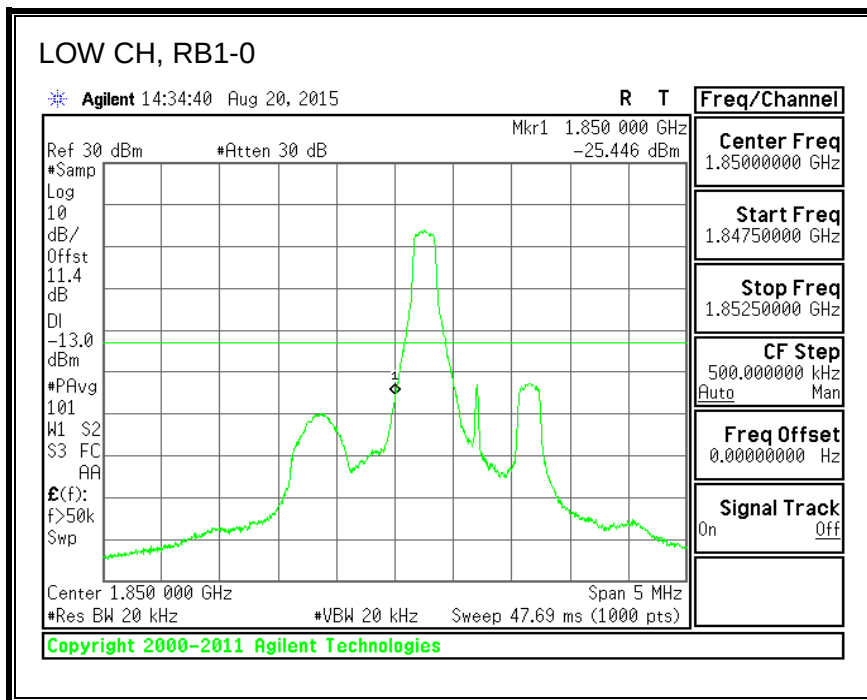


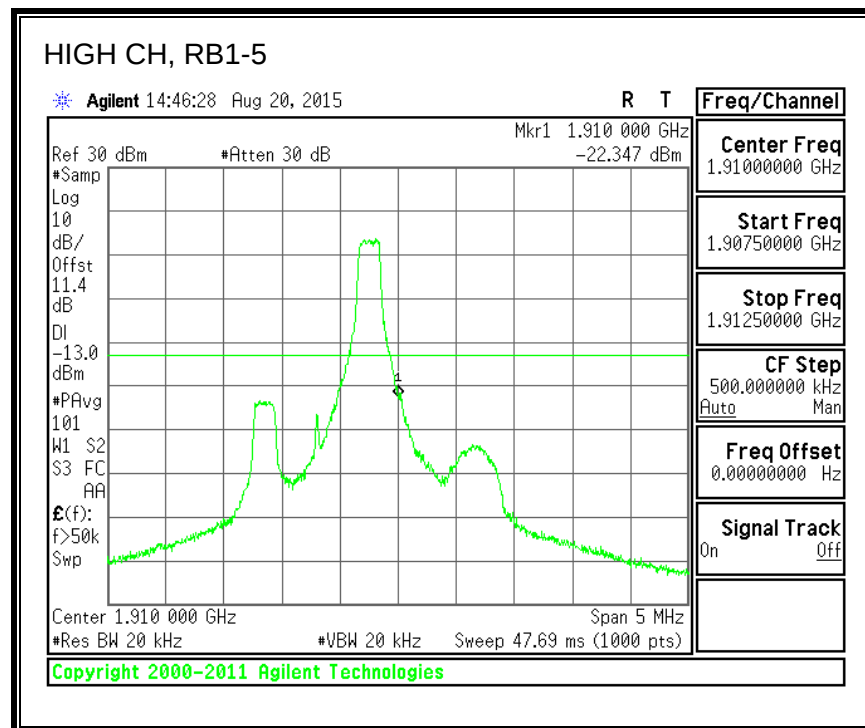
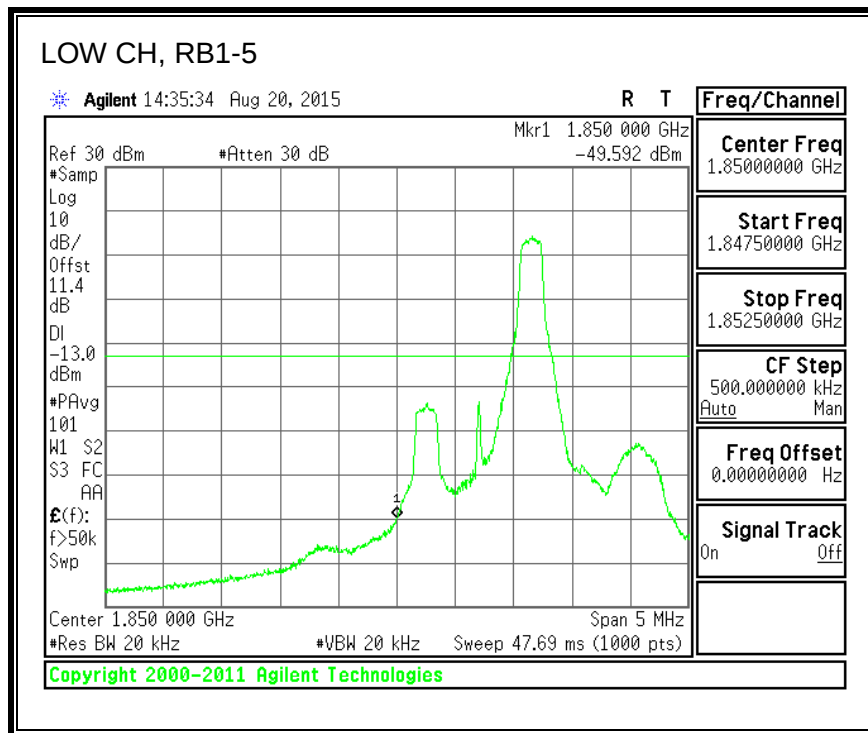


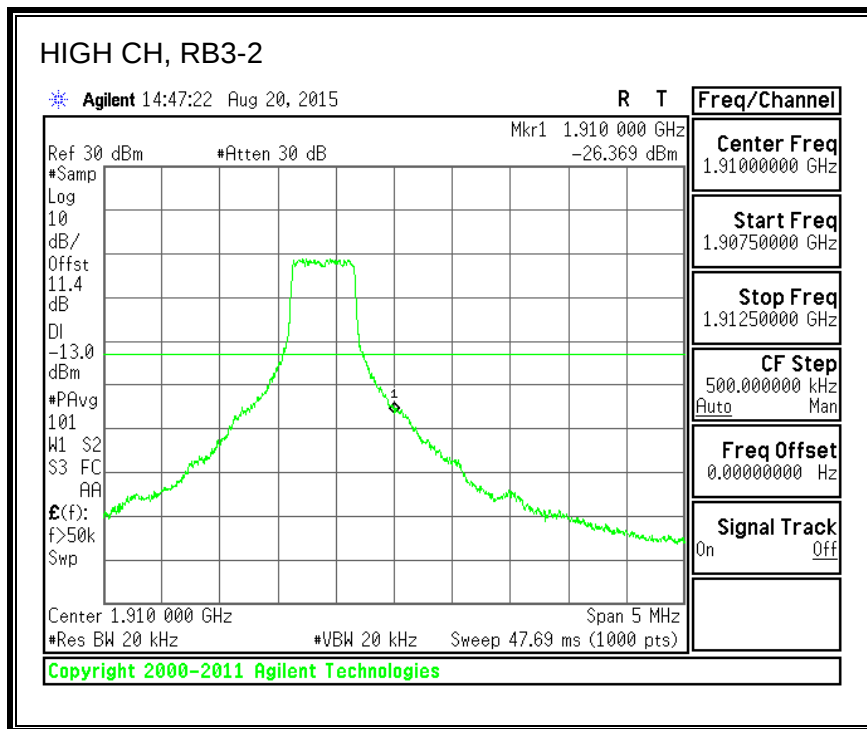
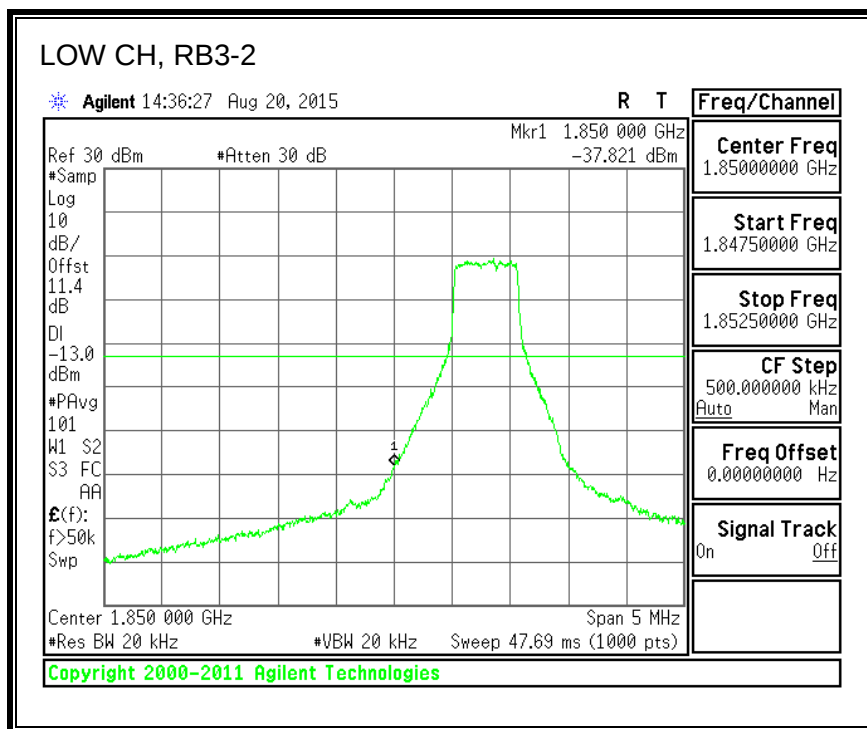


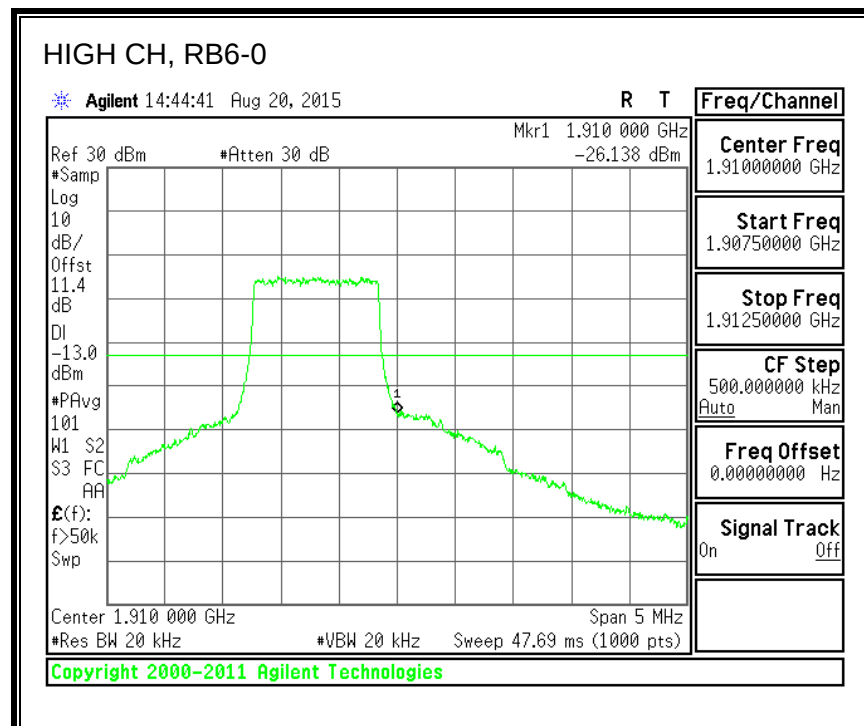
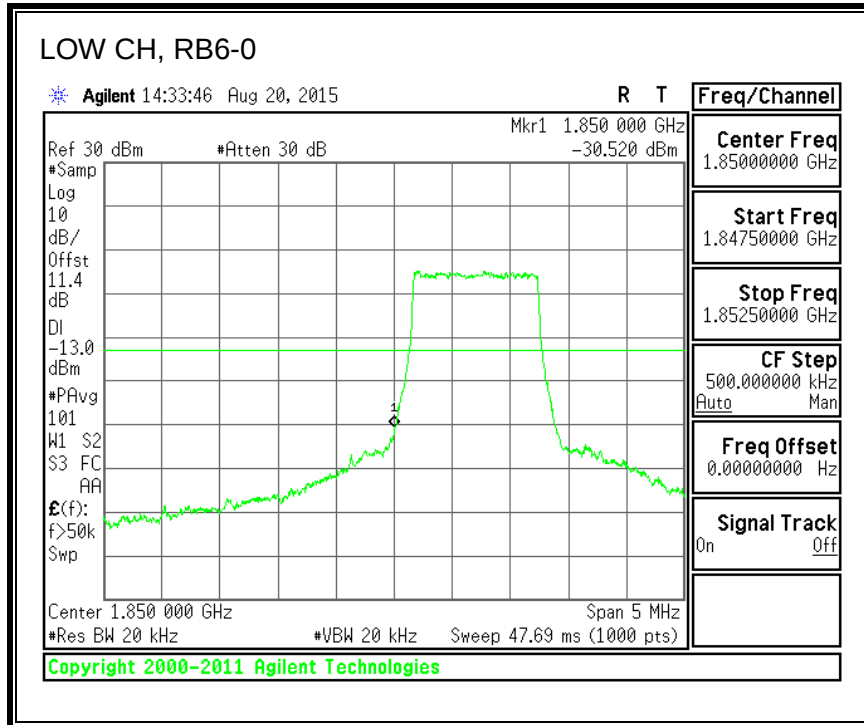


16QAM, (1.4 MHz BAND WIDTH)

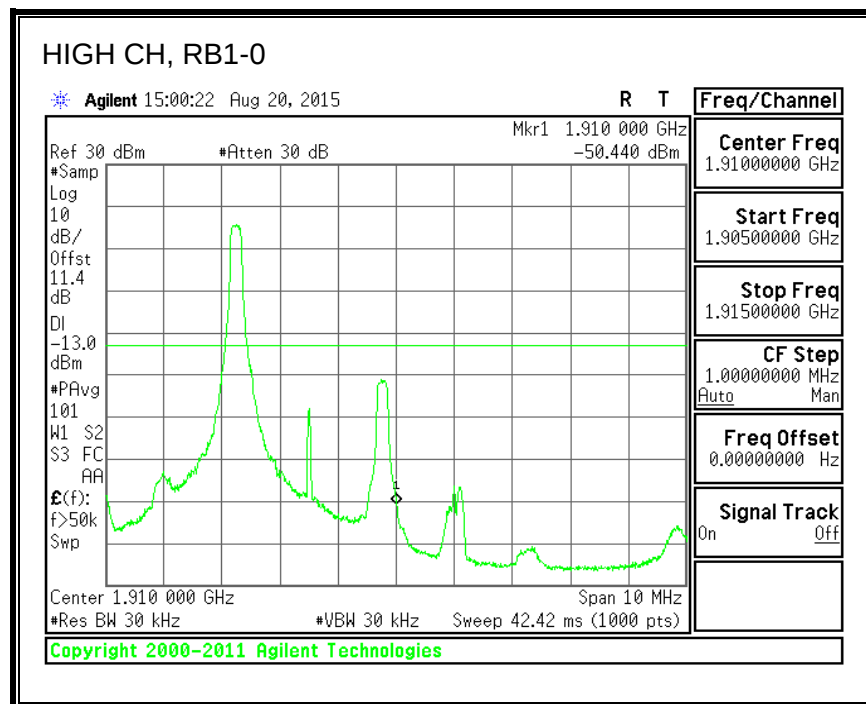
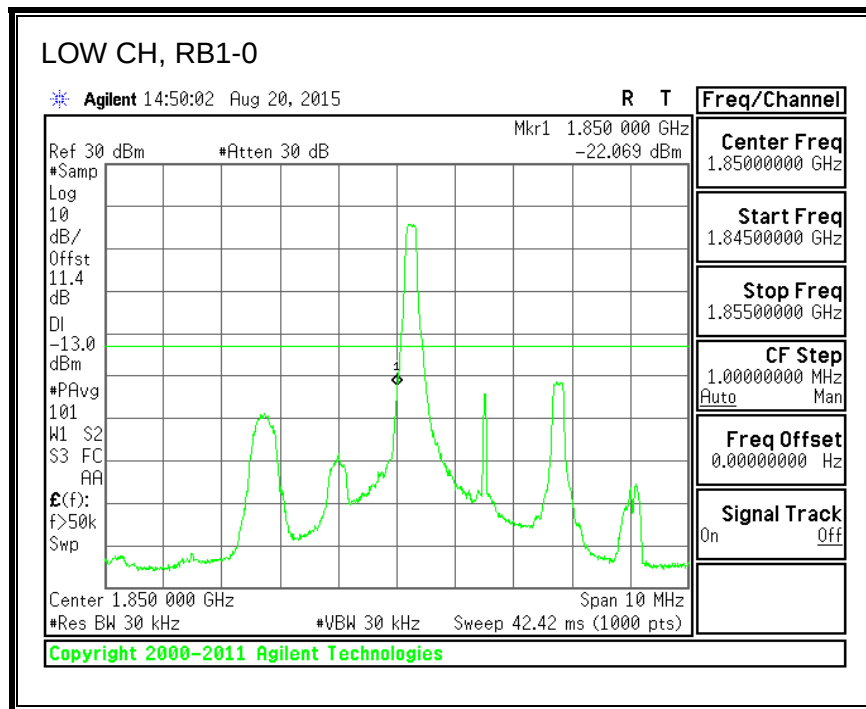


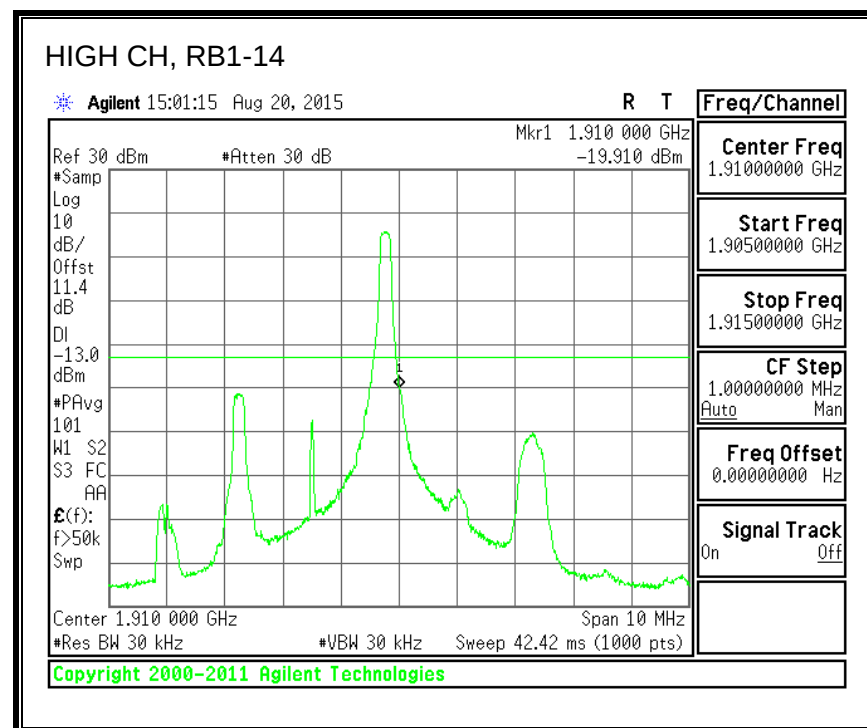
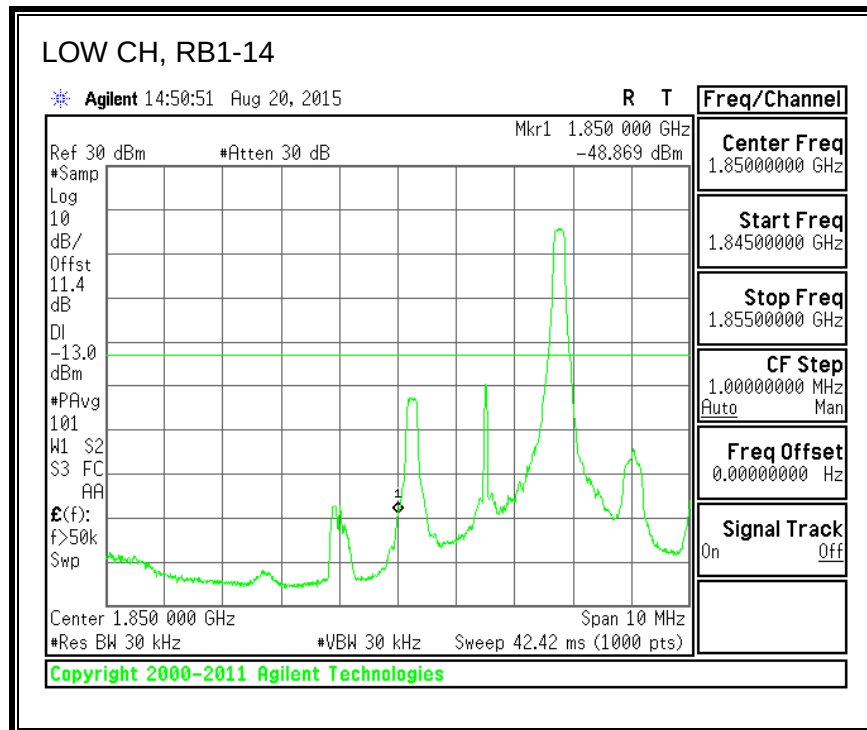


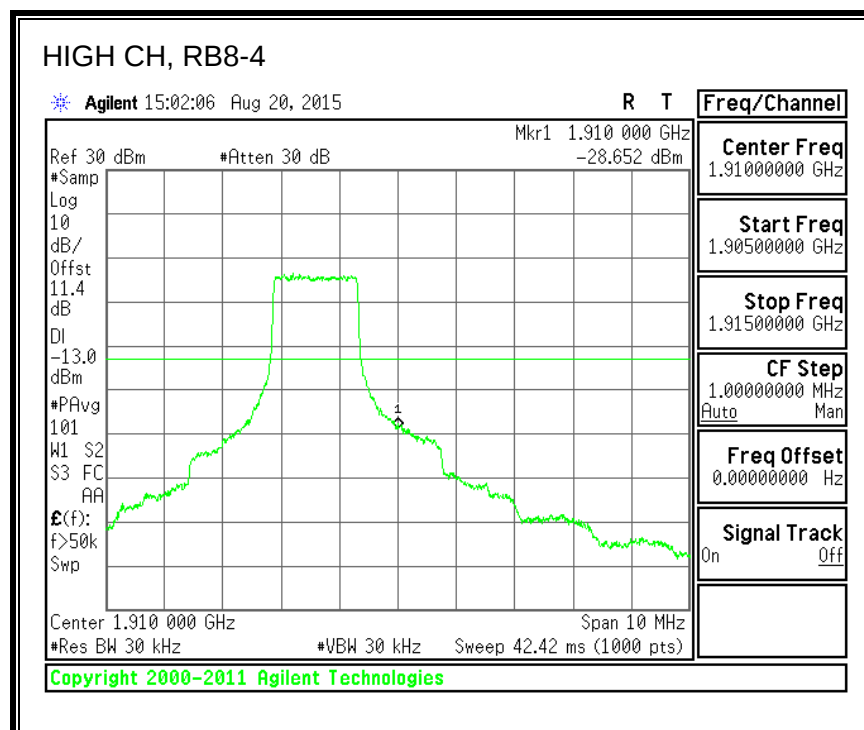
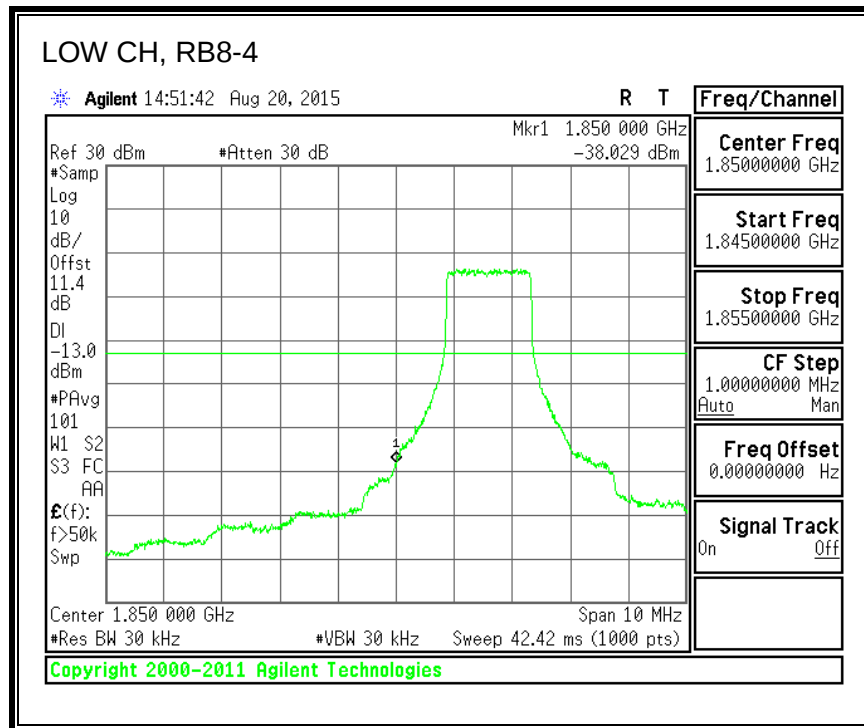


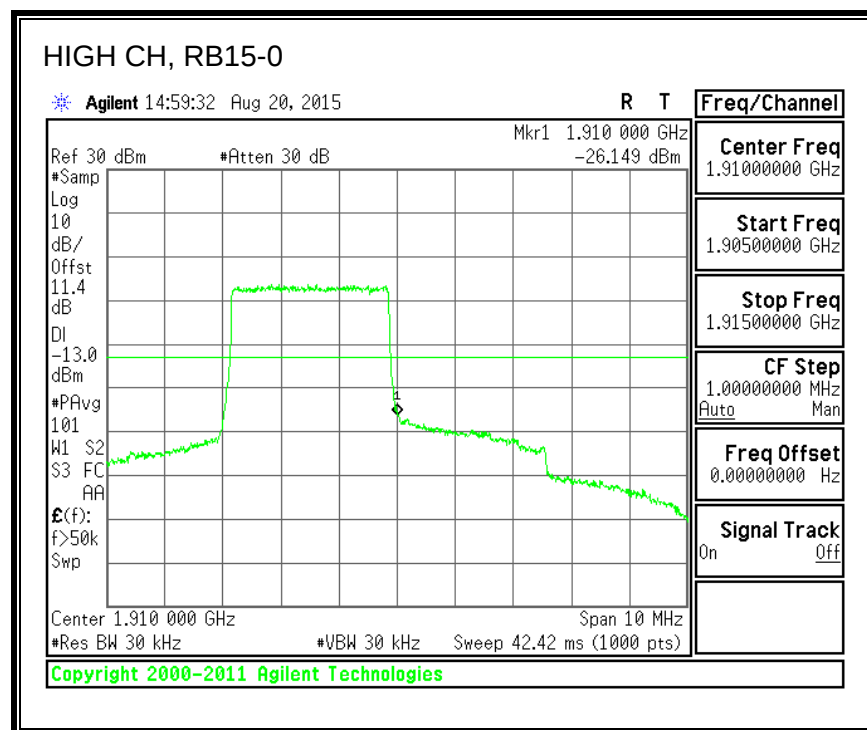
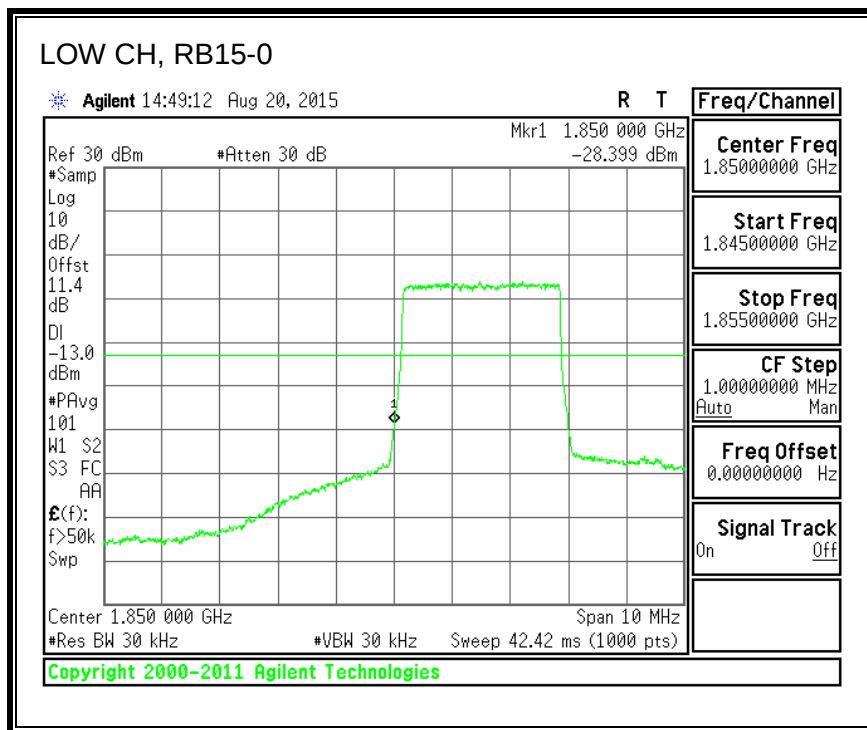


QPSK, (3.0 MHz BAND WIDTH)

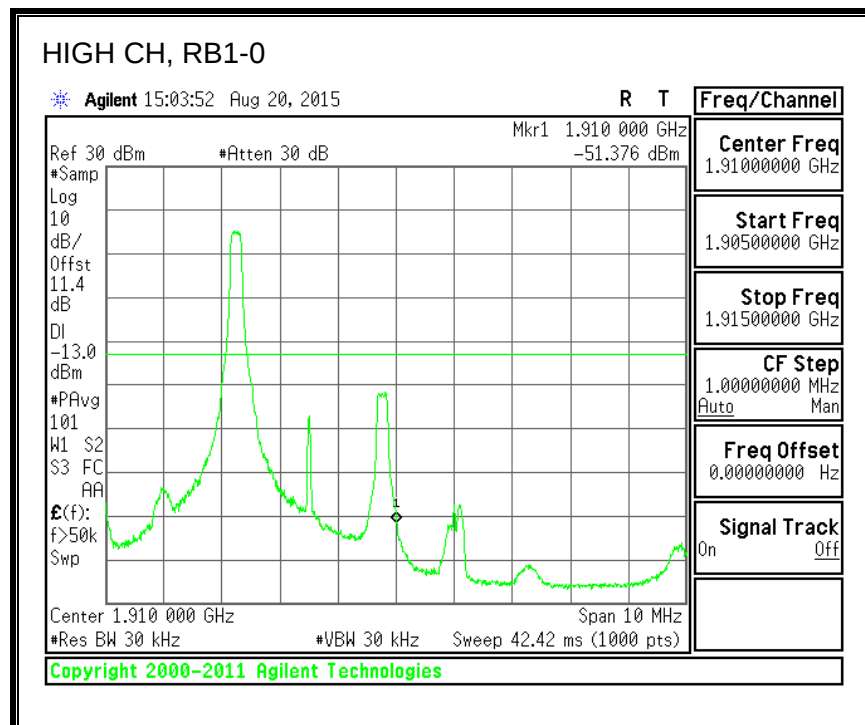
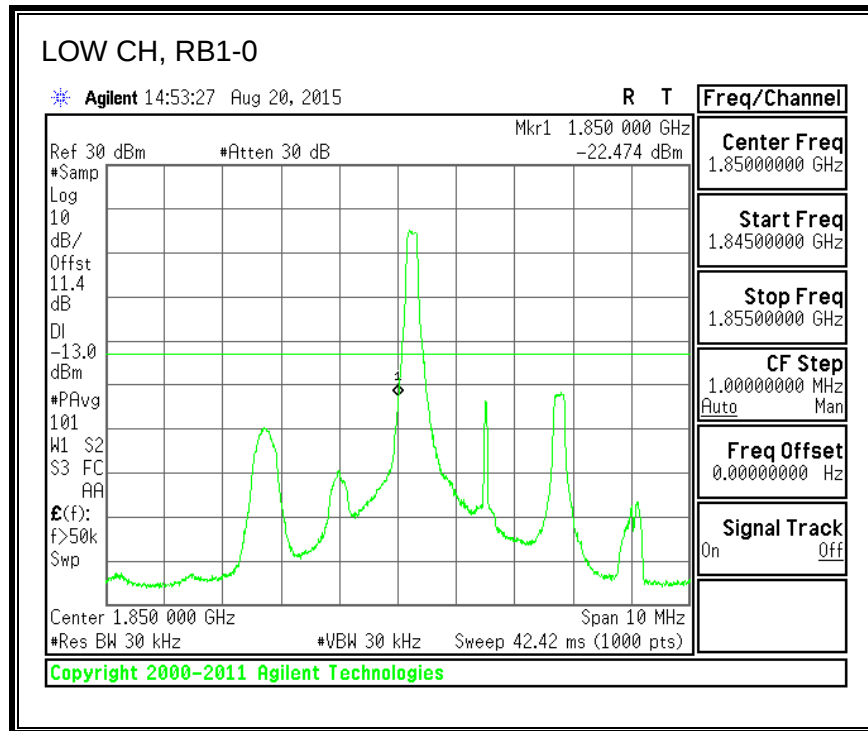


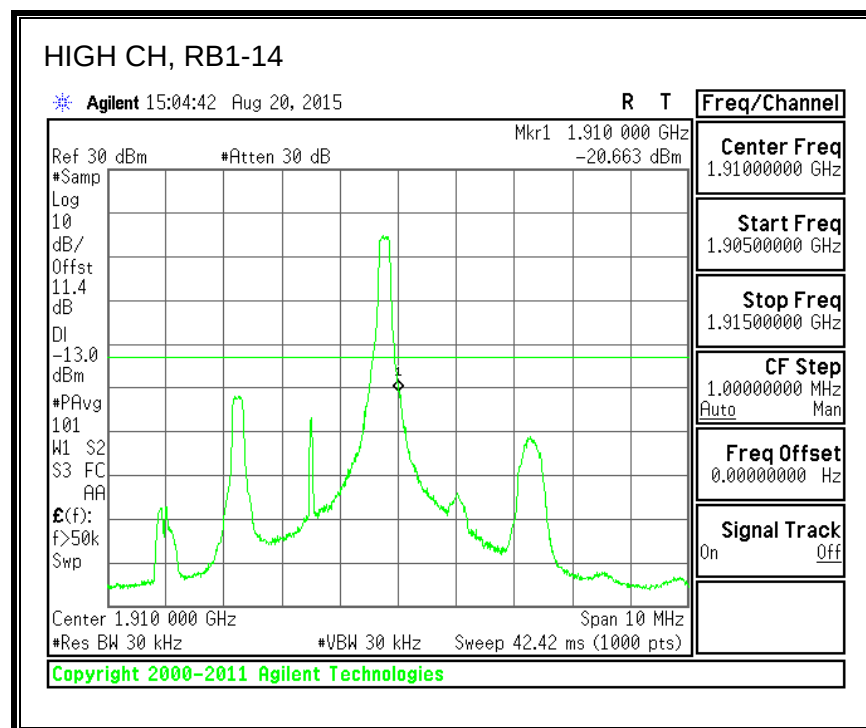
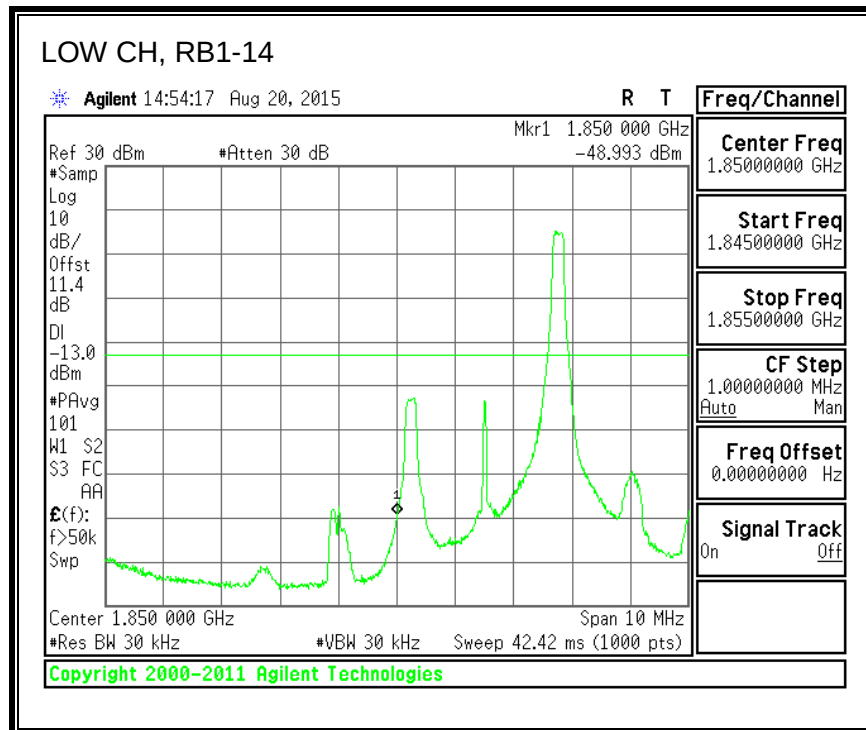


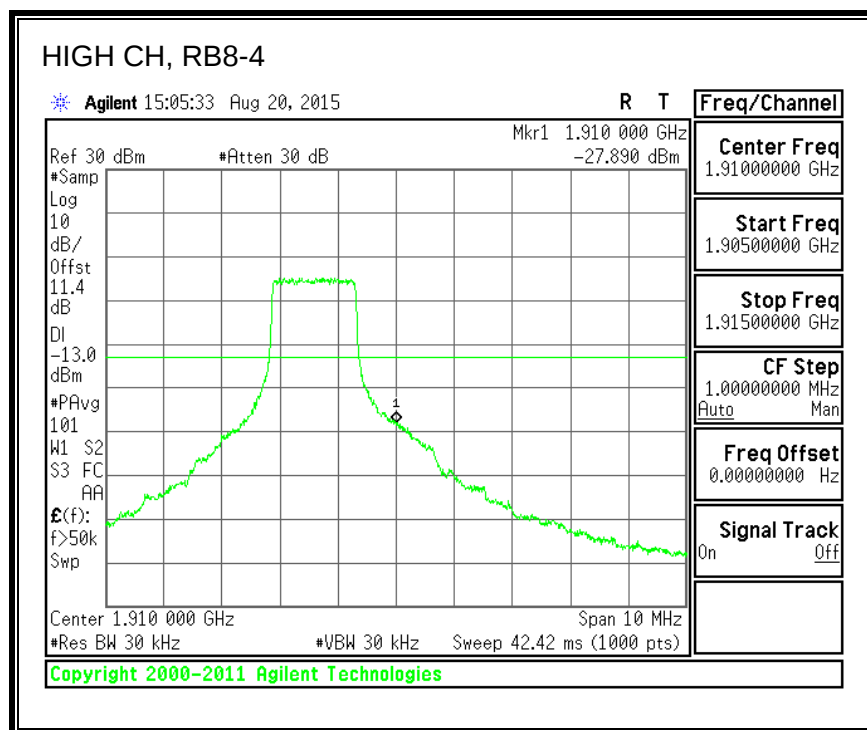
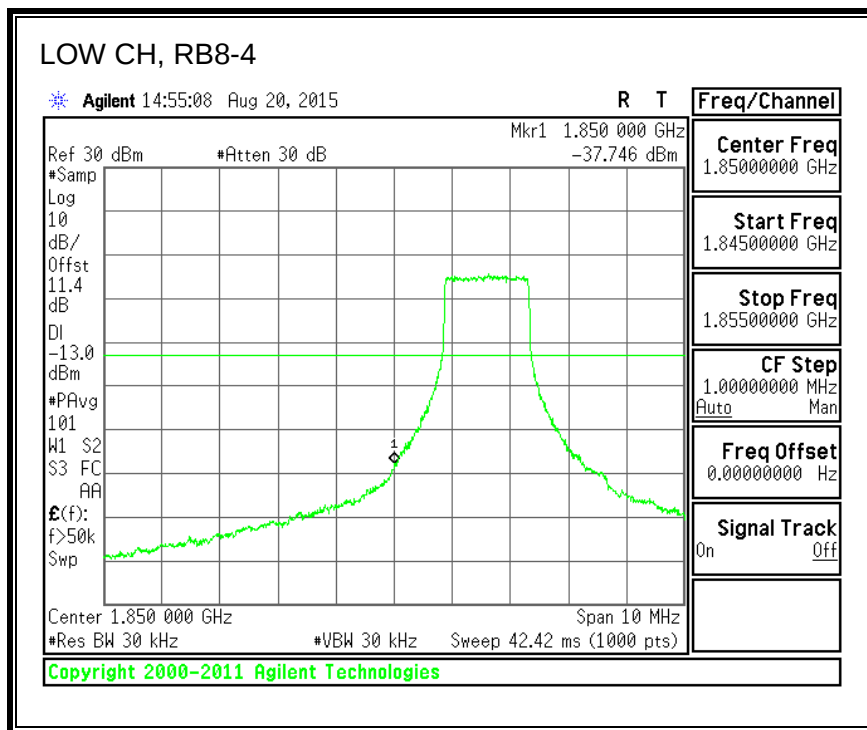


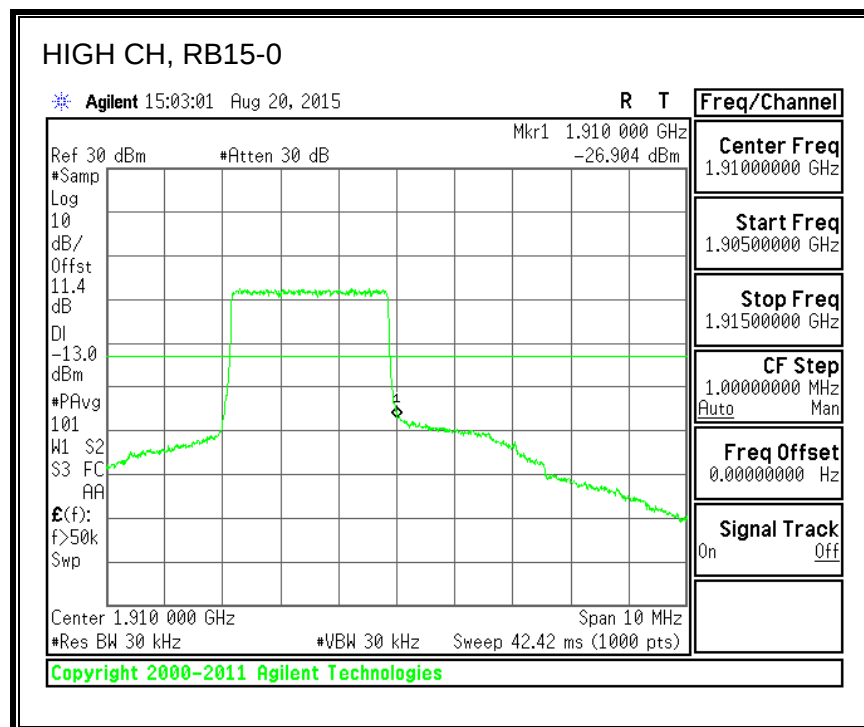
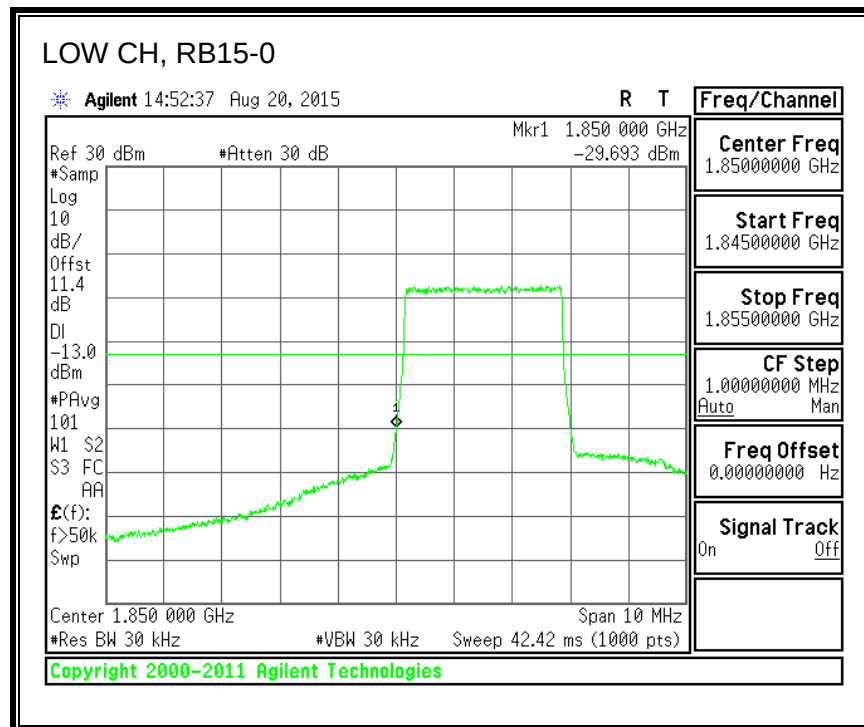


16QAM, (3.0 MHz BAND WIDTH)

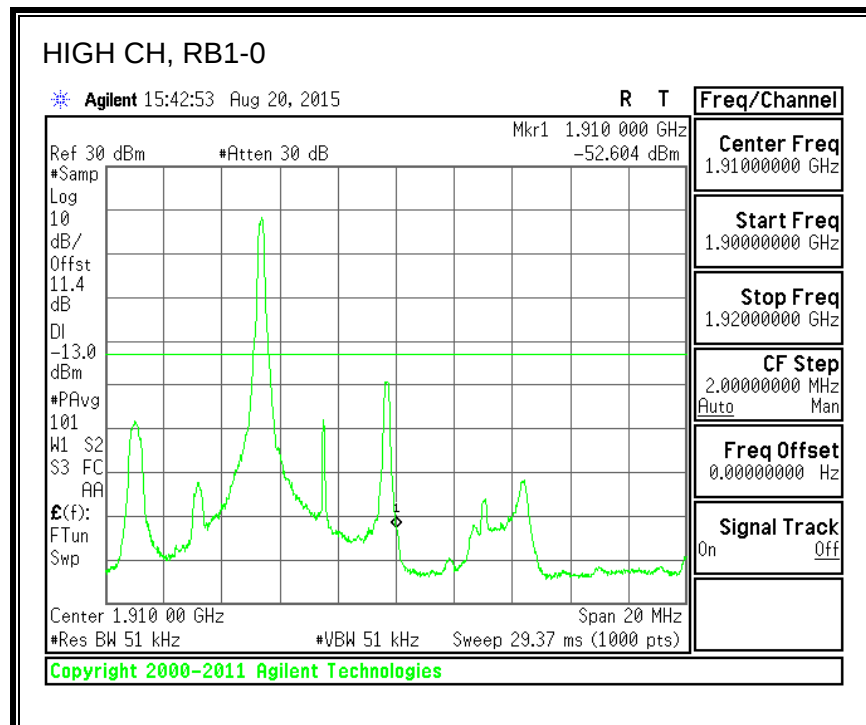
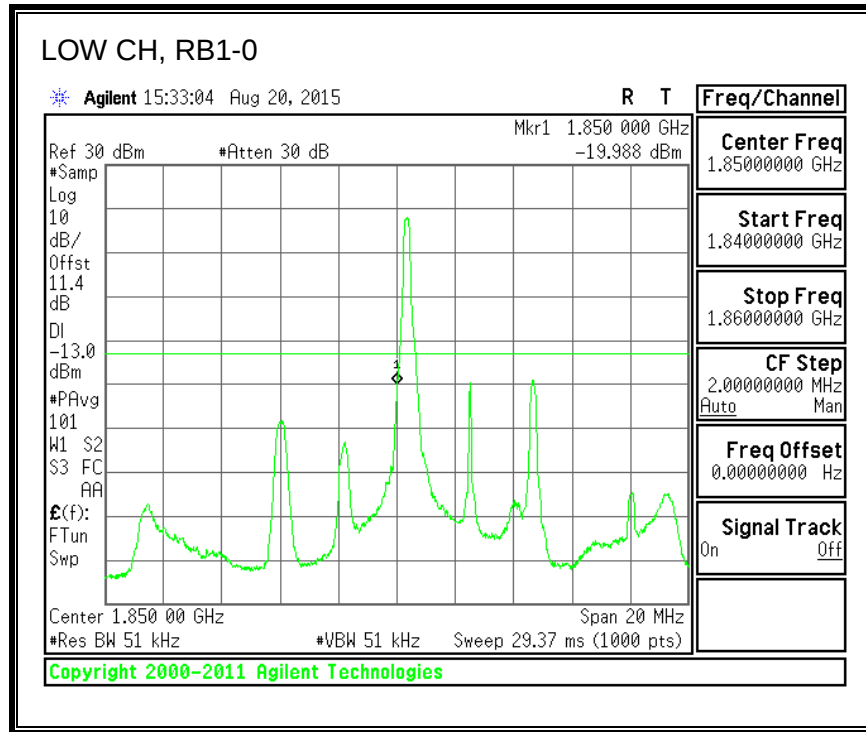


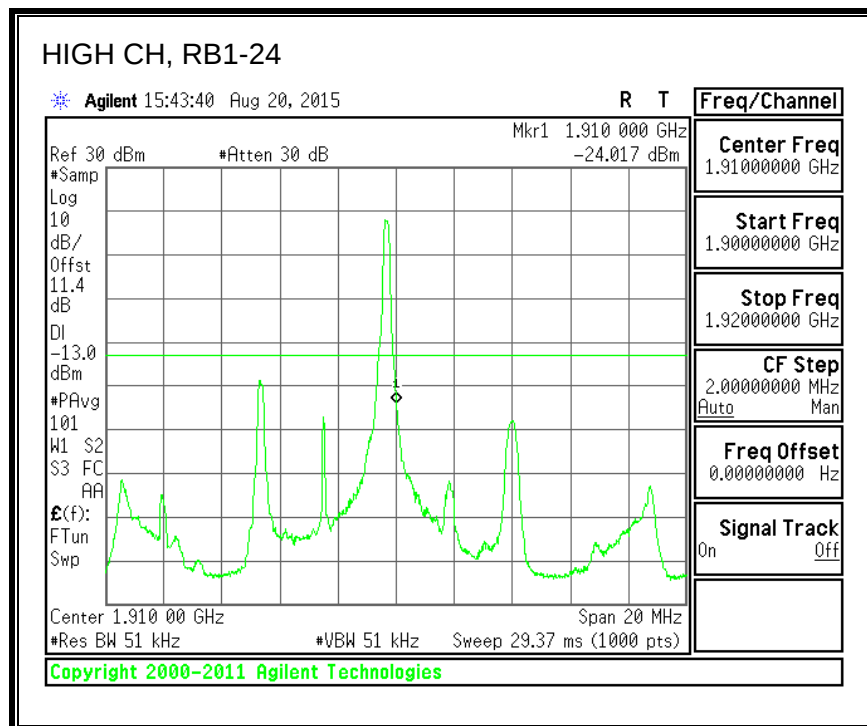
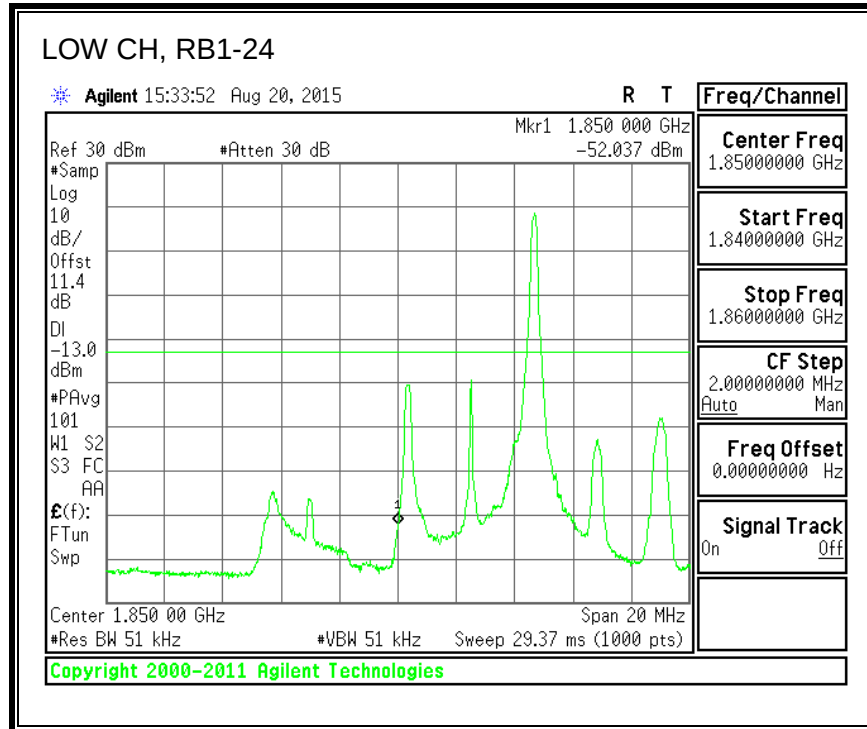


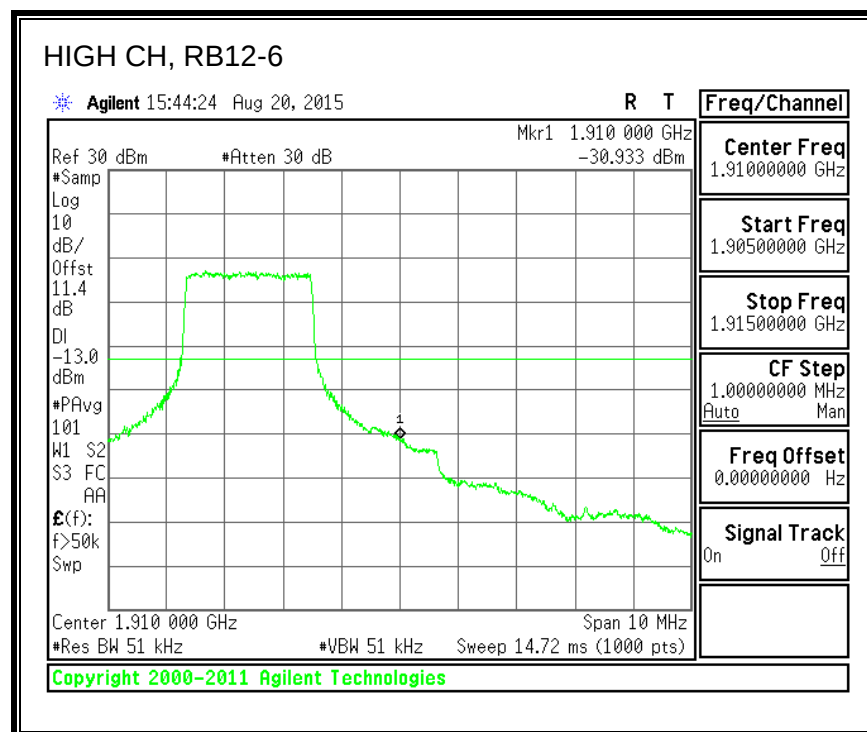
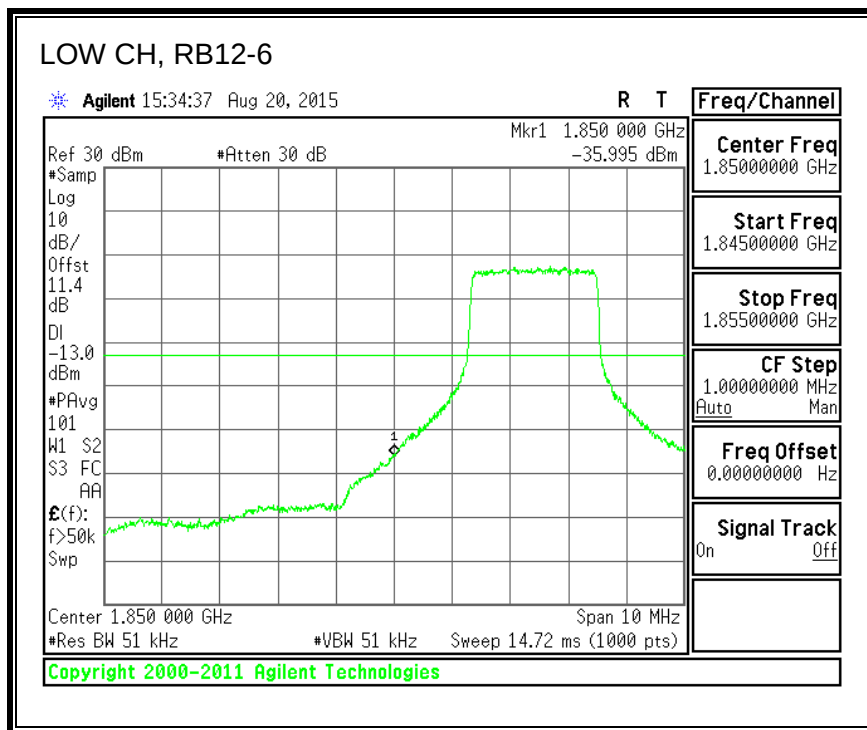


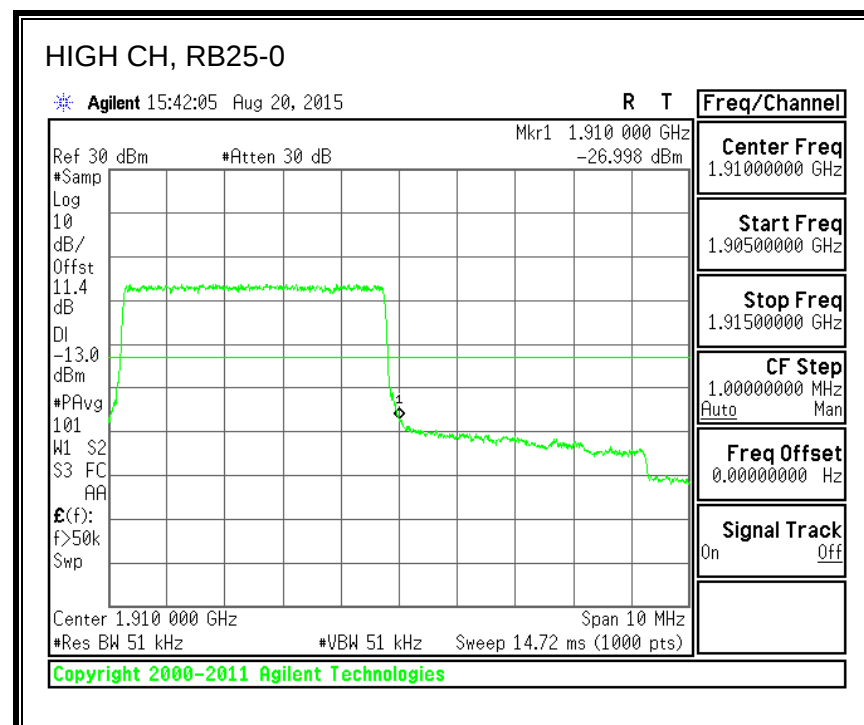
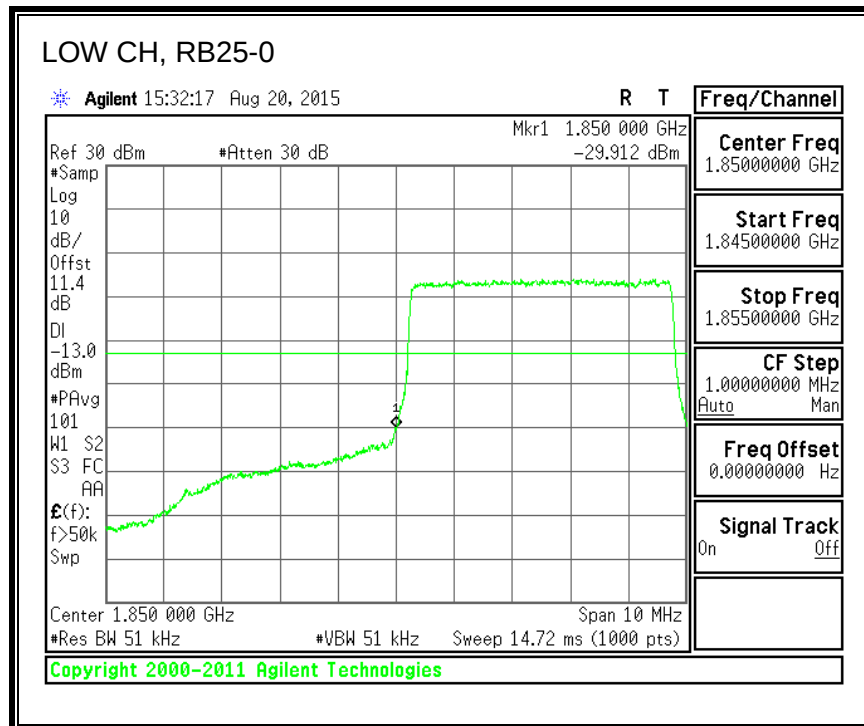


QPSK, (5.0 MHz BAND WIDTH)

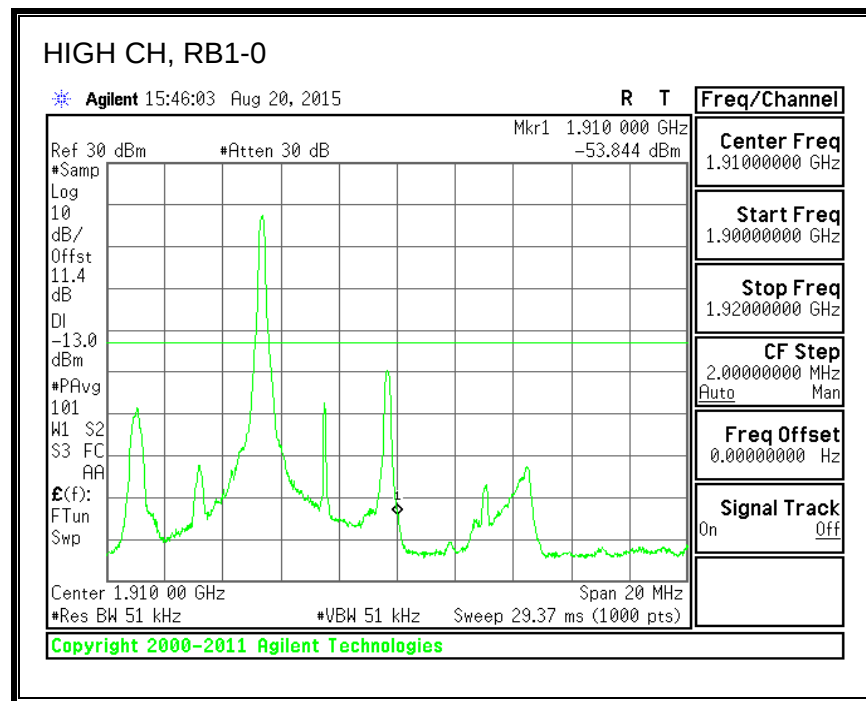
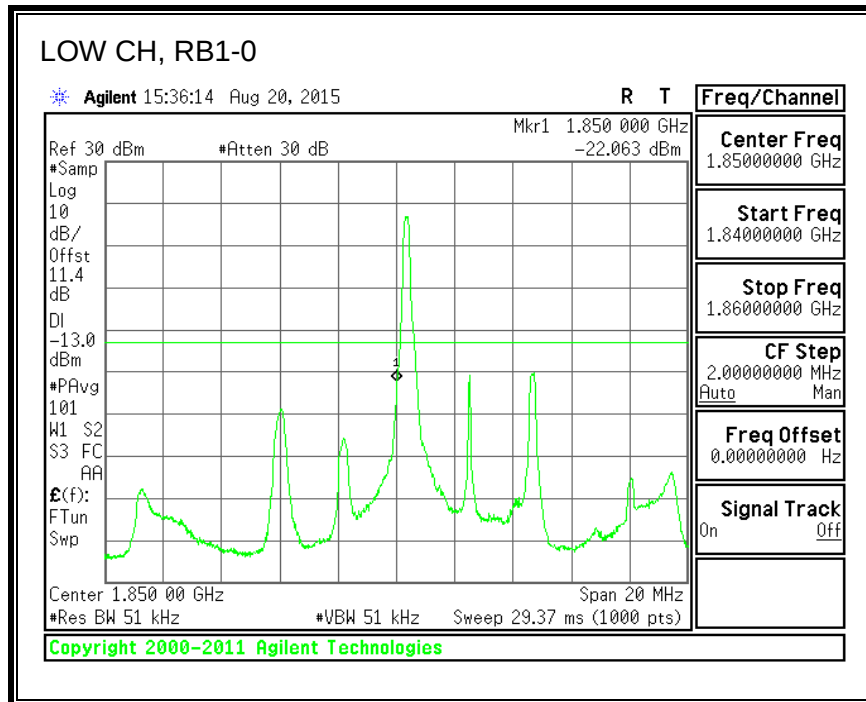


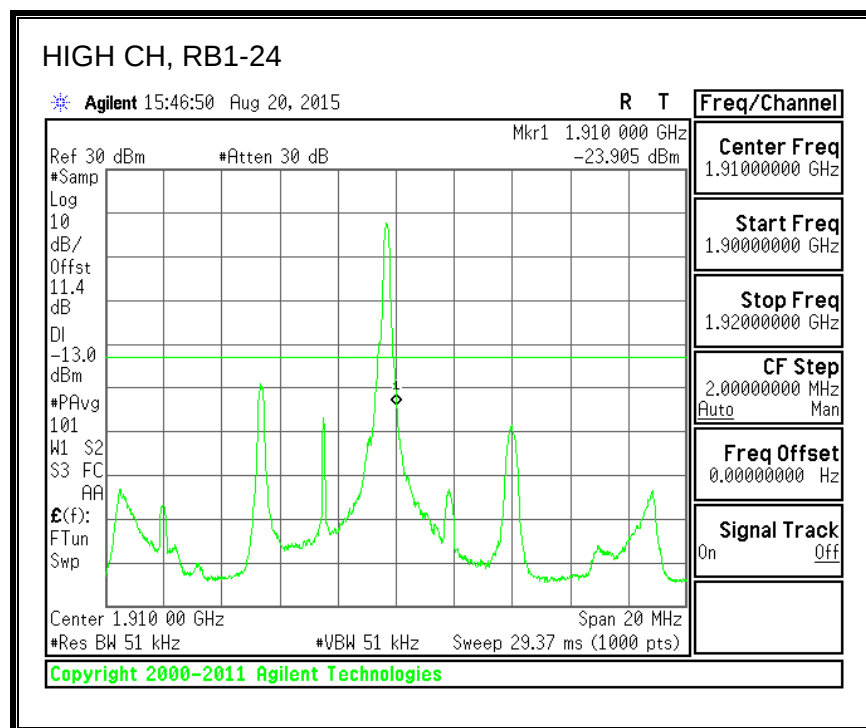
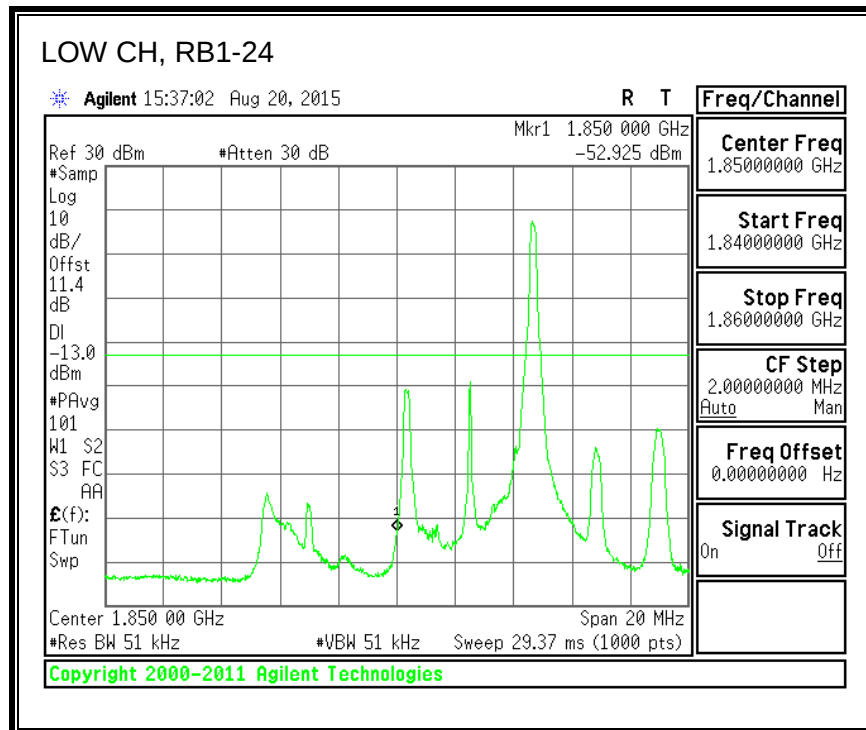


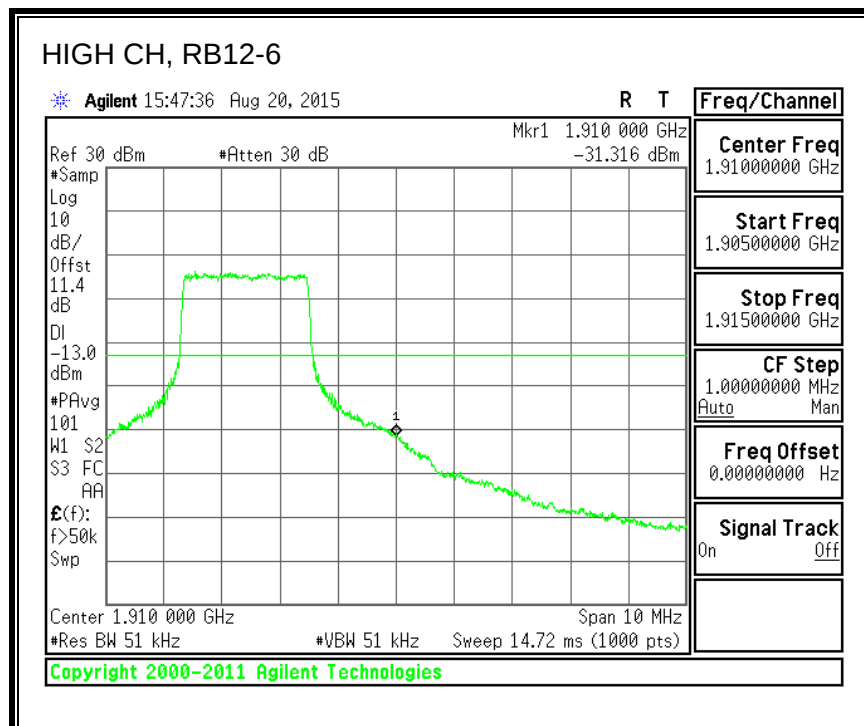
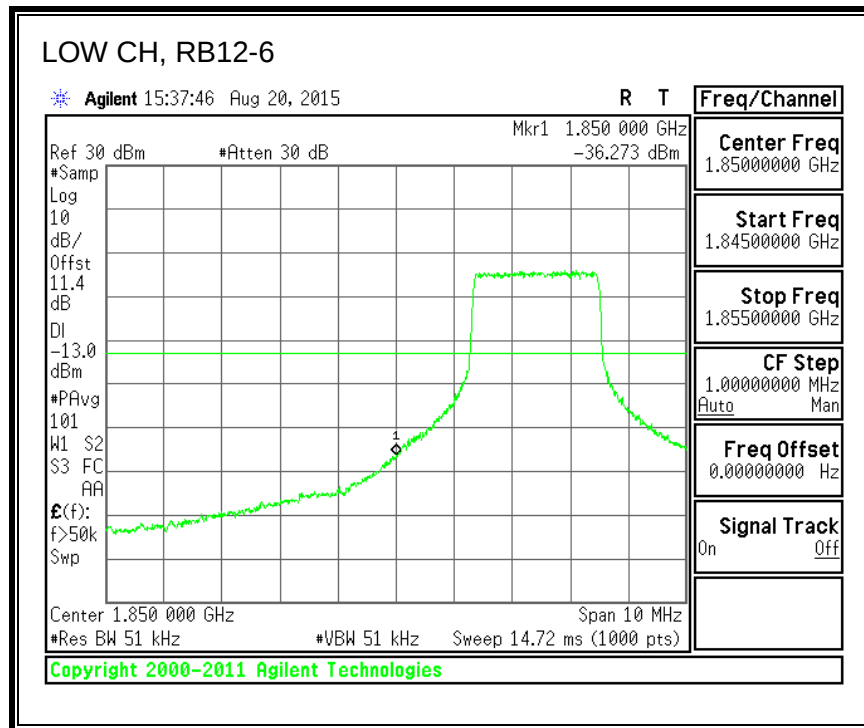




16QAM, (5.0 MHz BAND WIDTH)







LOW CH, RB25-0

Agilent 15:35:27 Aug 20, 2015

R T

Freq/Channel

Ref 30 dBm #Atten 30 dB Mkr1 1.850 000 GHz
-29.506 dBm

Center Freq
1.85000000 GHz

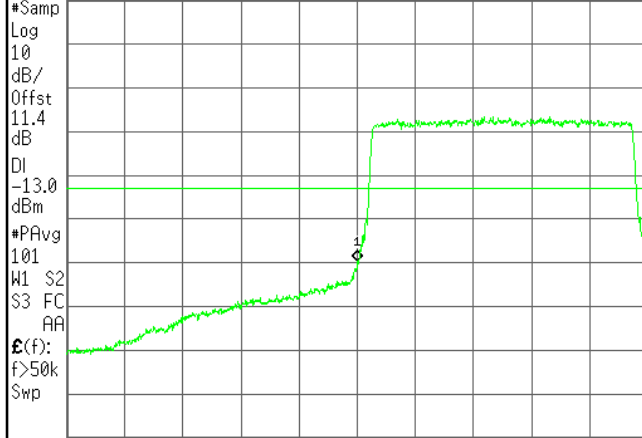
Start Freq
1.84500000 GHz

Stop Freq
1.85500000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



Center 1.850 000 GHz Span 10 MHz
#Res BW 51 kHz #VBW 51 kHz Sweep 14.72 ms (1000 pts)

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HIGH CH, RB25-0

Agilent 15:45:15 Aug 20, 2015

R T

Freq/Channel

Ref 30 dBm #Atten 30 dB Mkr1 1.910 000 GHz
-28.114 dBm

Center Freq
1.91000000 GHz

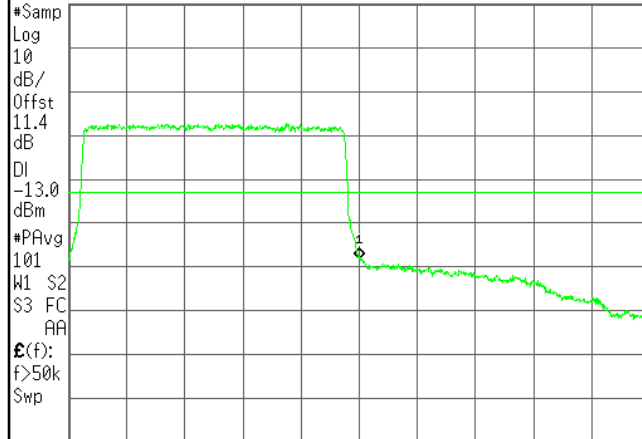
Start Freq
1.90500000 GHz

Stop Freq
1.91500000 GHz

CF Step
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Auto Man

Freq Offset
0.00000000 Hz

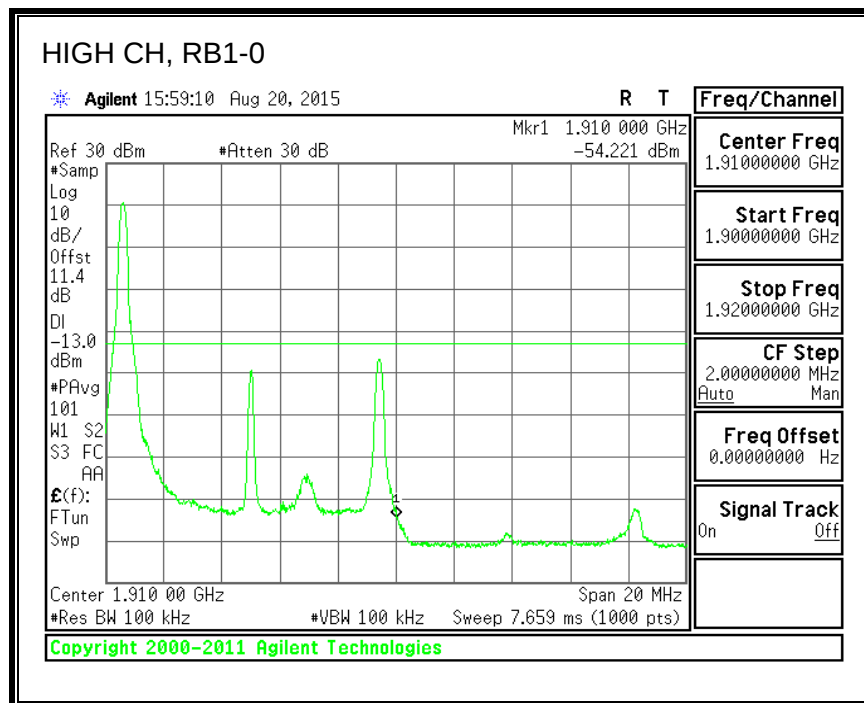
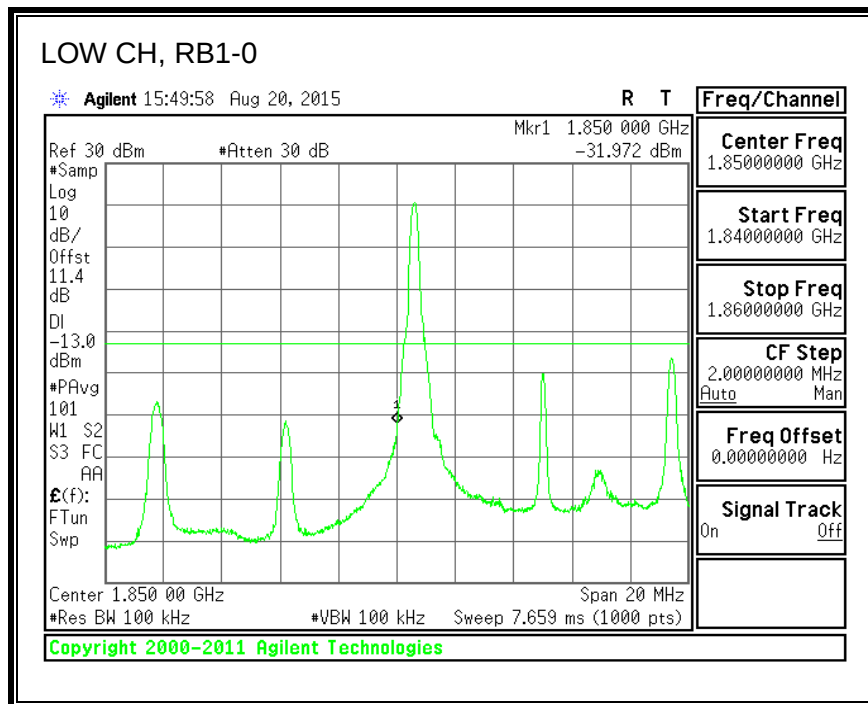
Signal Track
On Off

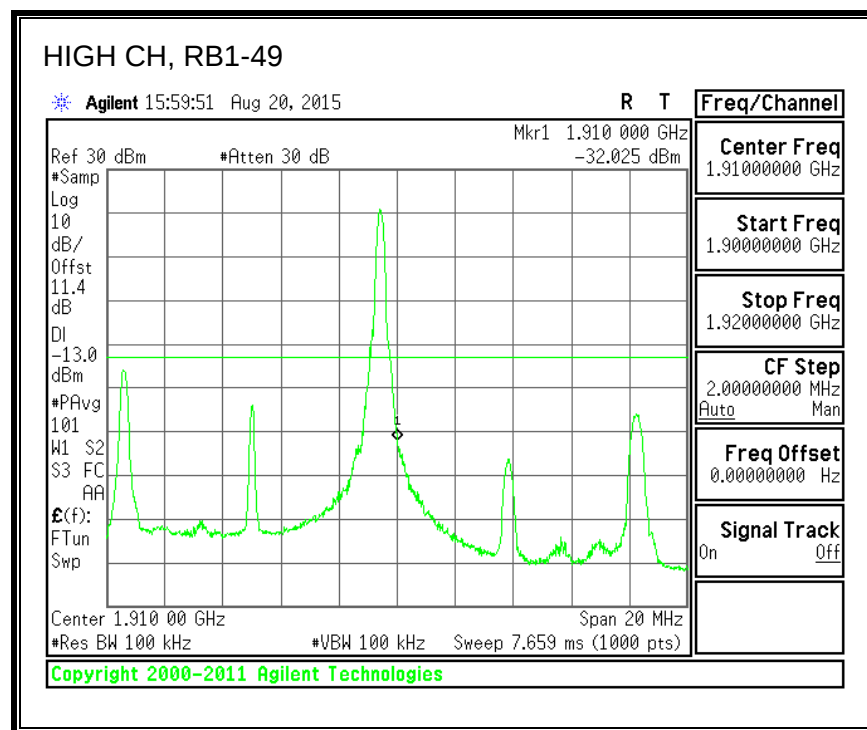
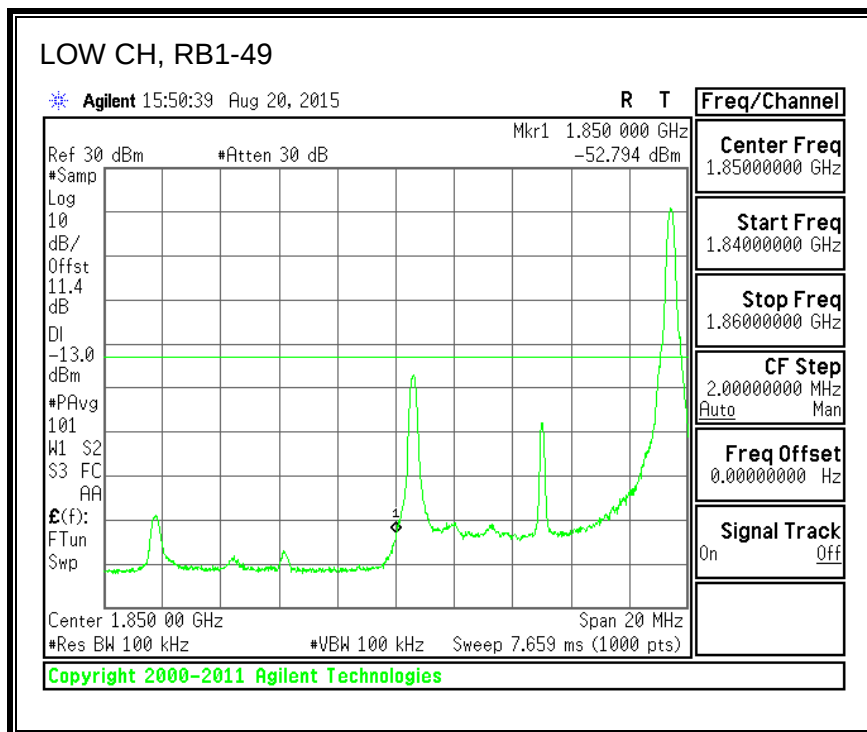


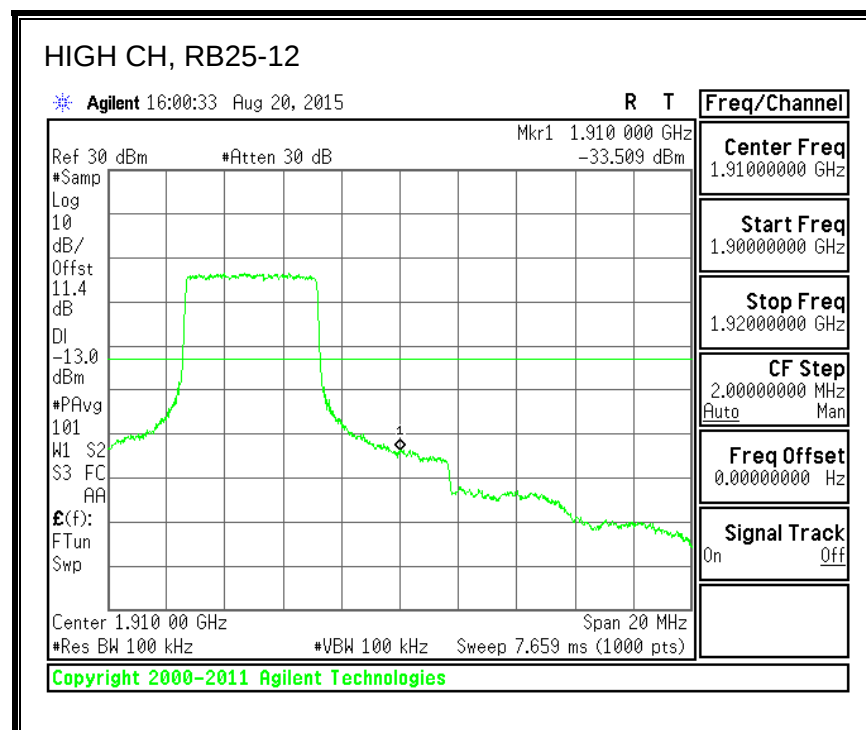
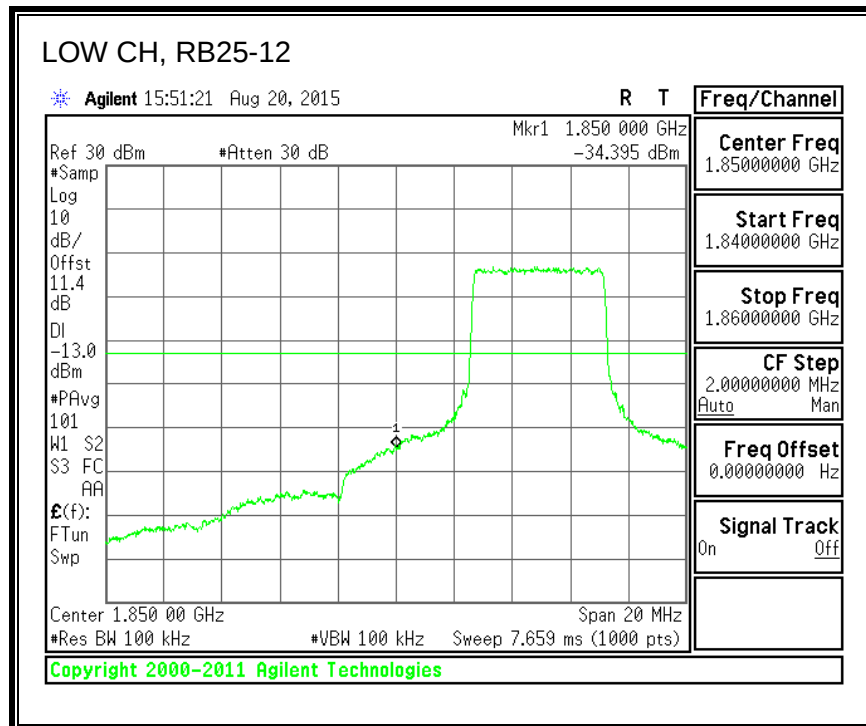
Center 1.910 000 GHz Span 10 MHz
#Res BW 51 kHz #VBW 51 kHz Sweep 14.72 ms (1000 pts)

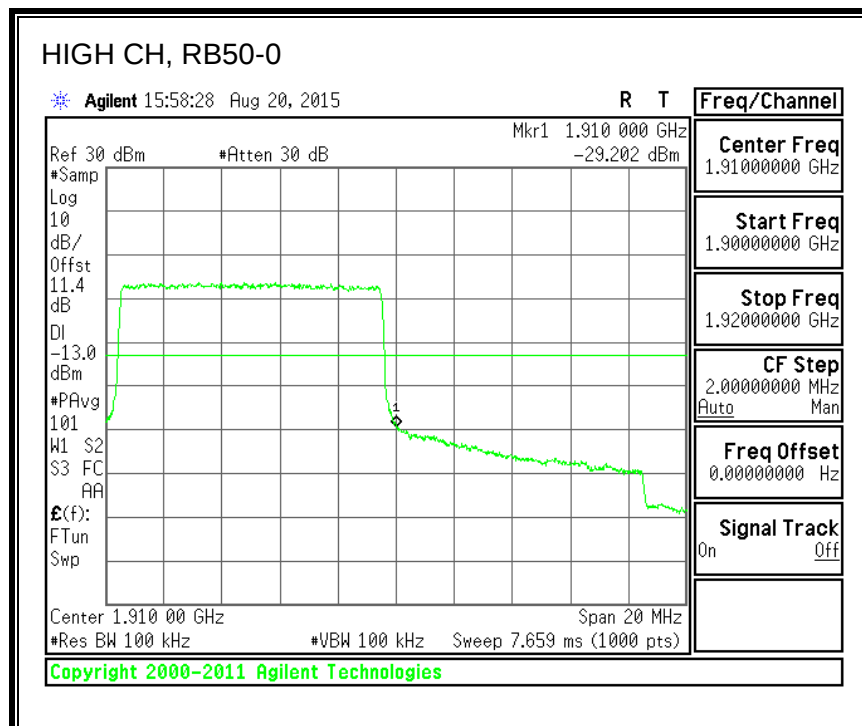
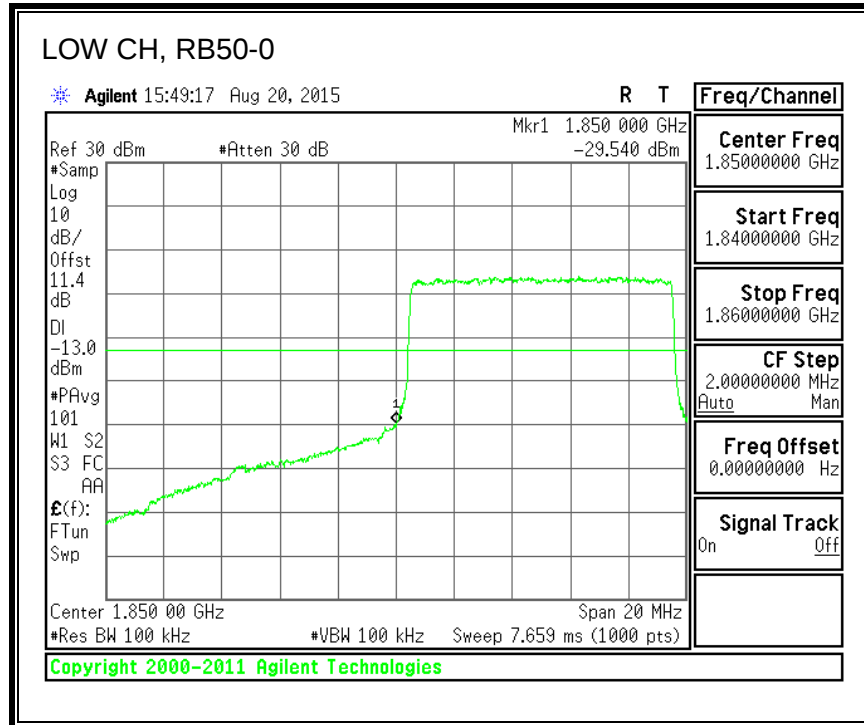
Copyright 2000-2011 Agilent Technologies

QPSK, (10.0 MHz BAND WIDTH)

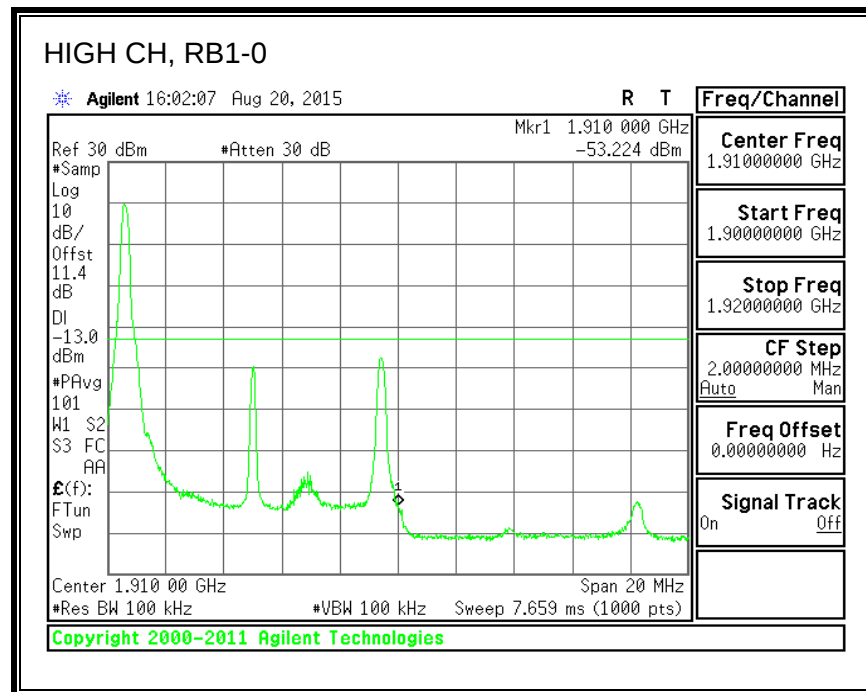
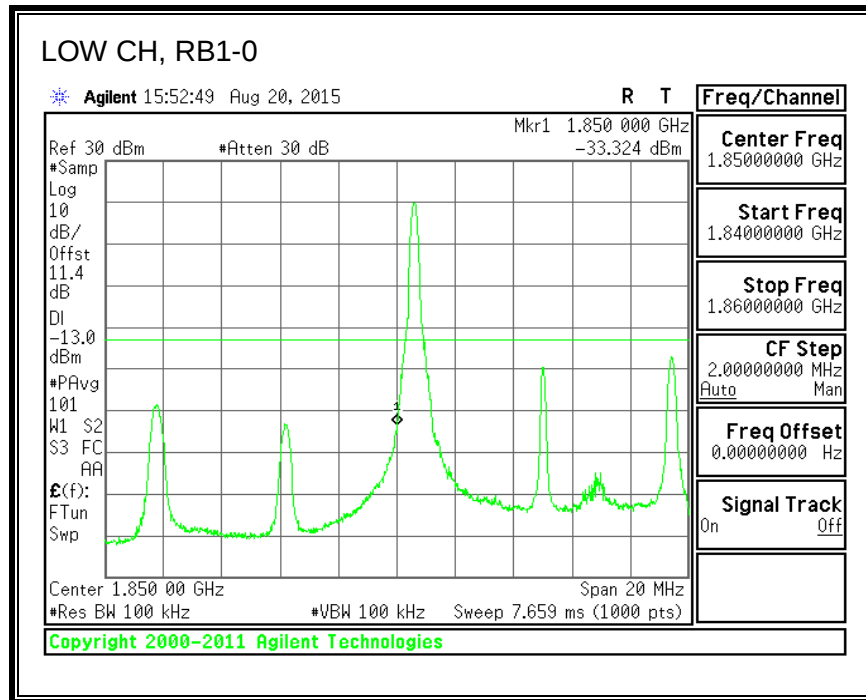


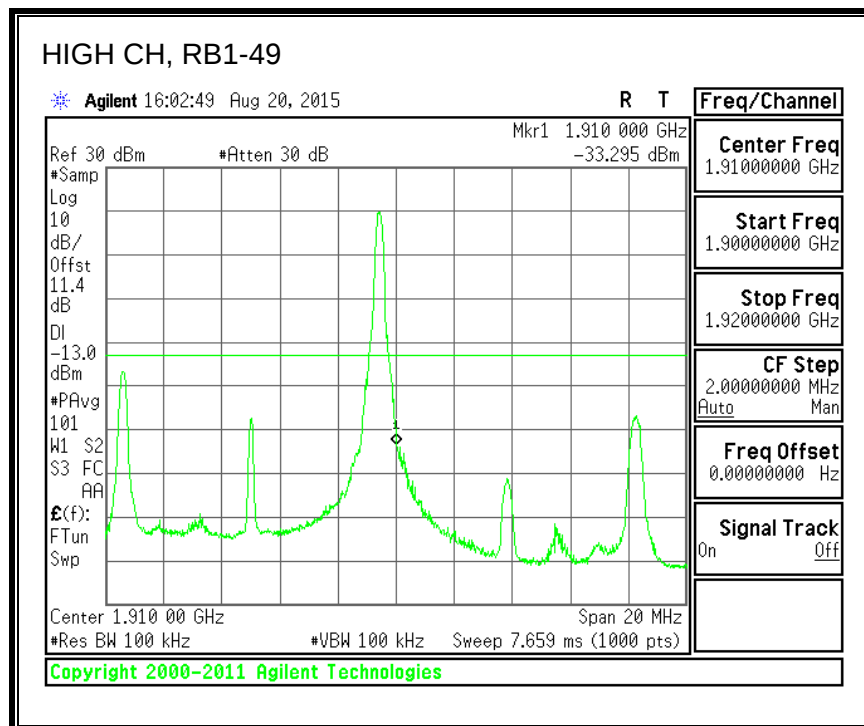
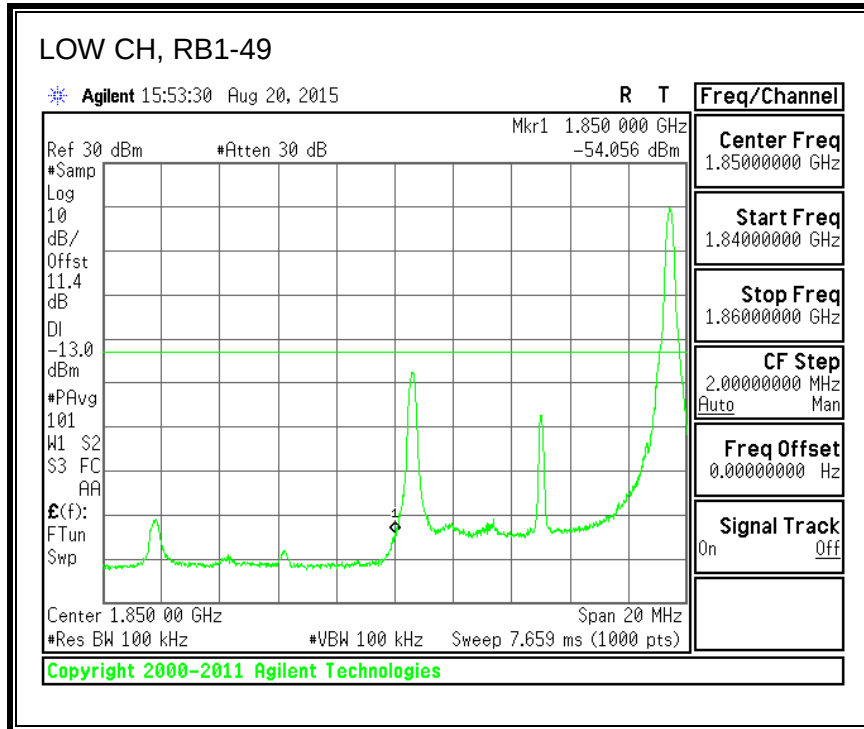


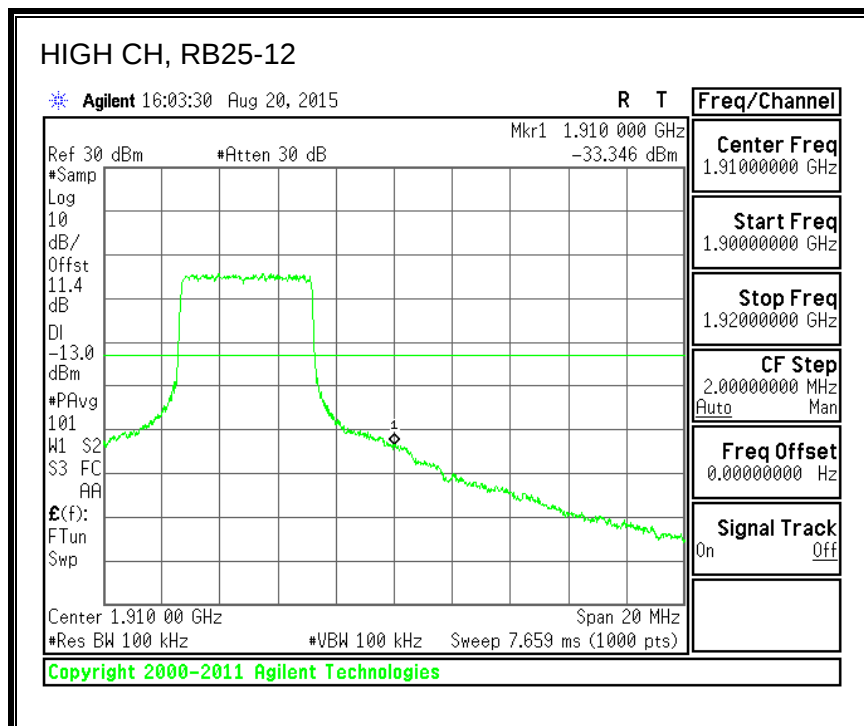
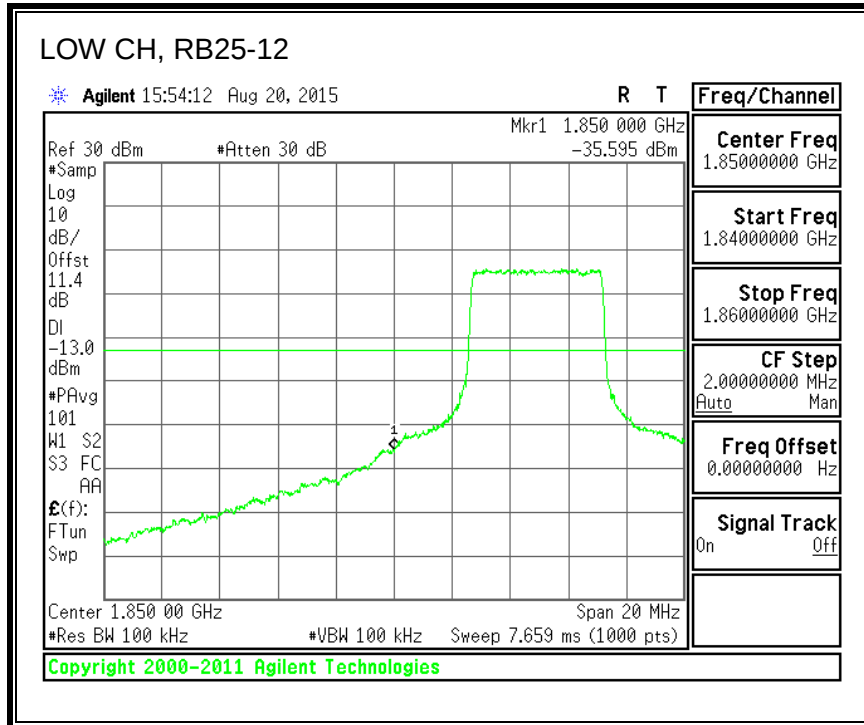


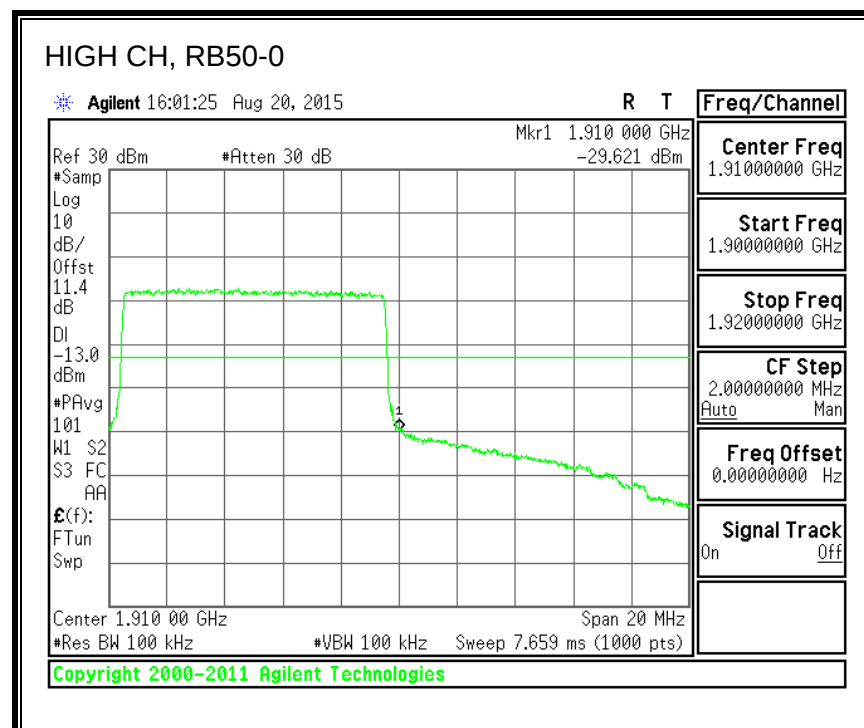
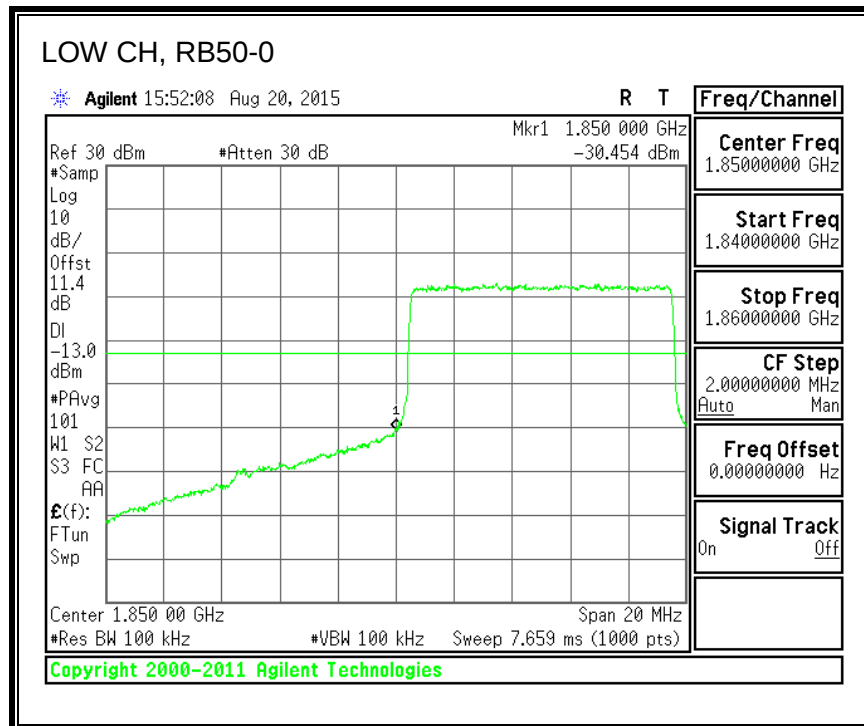


16QAM, (10.0 MHz BAND WIDTH)

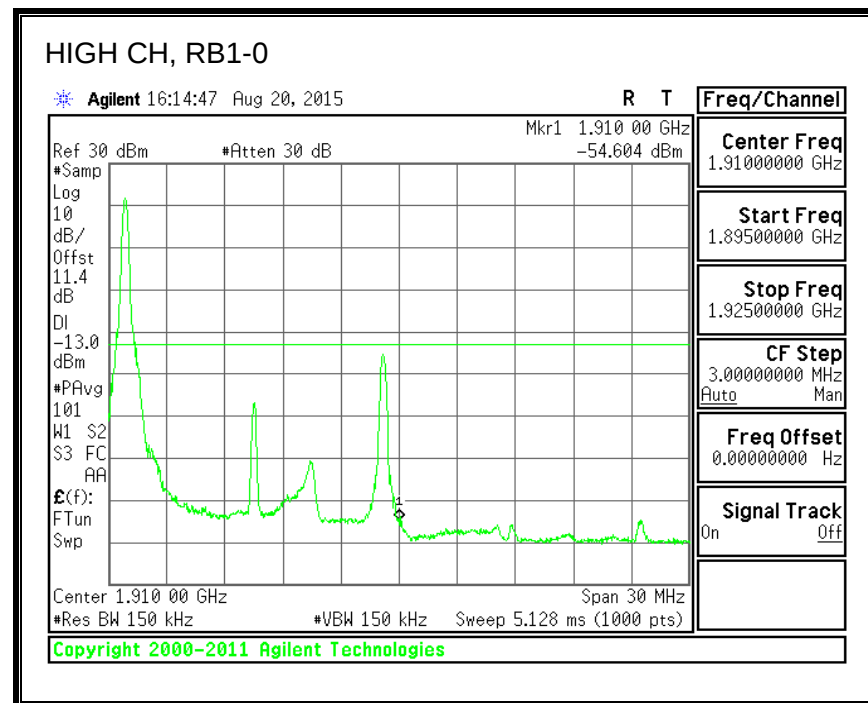
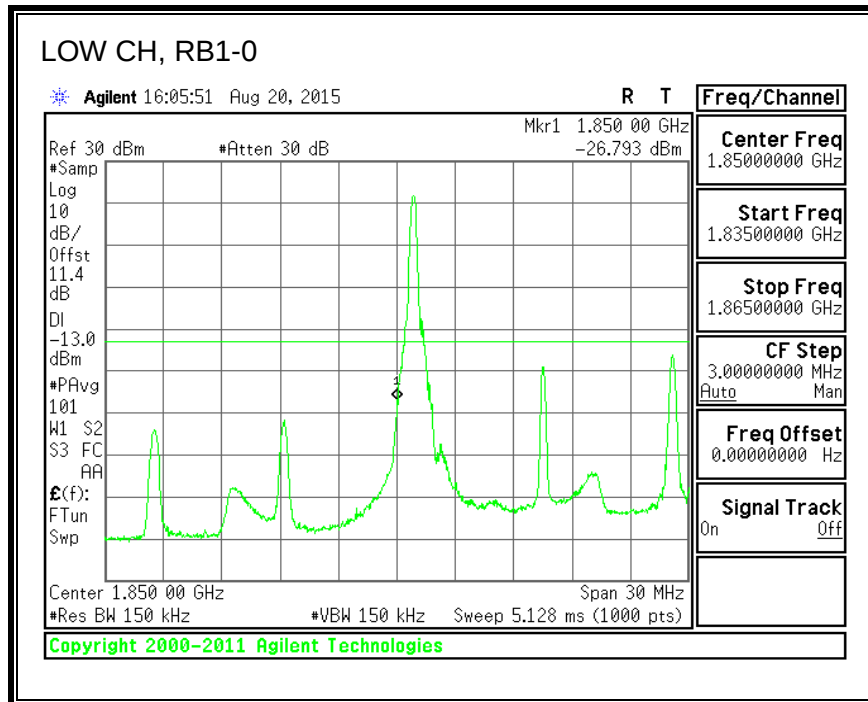


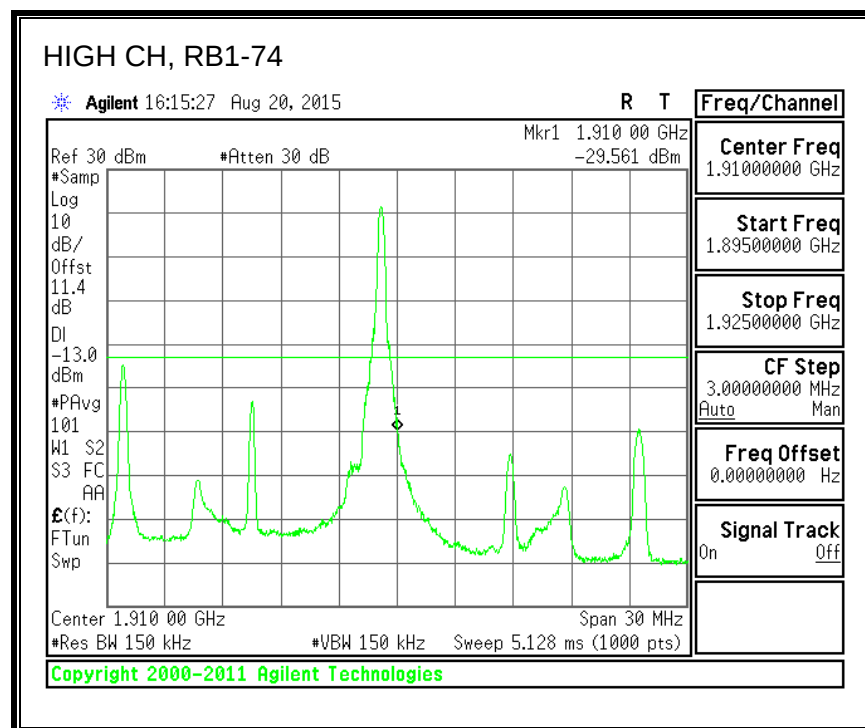
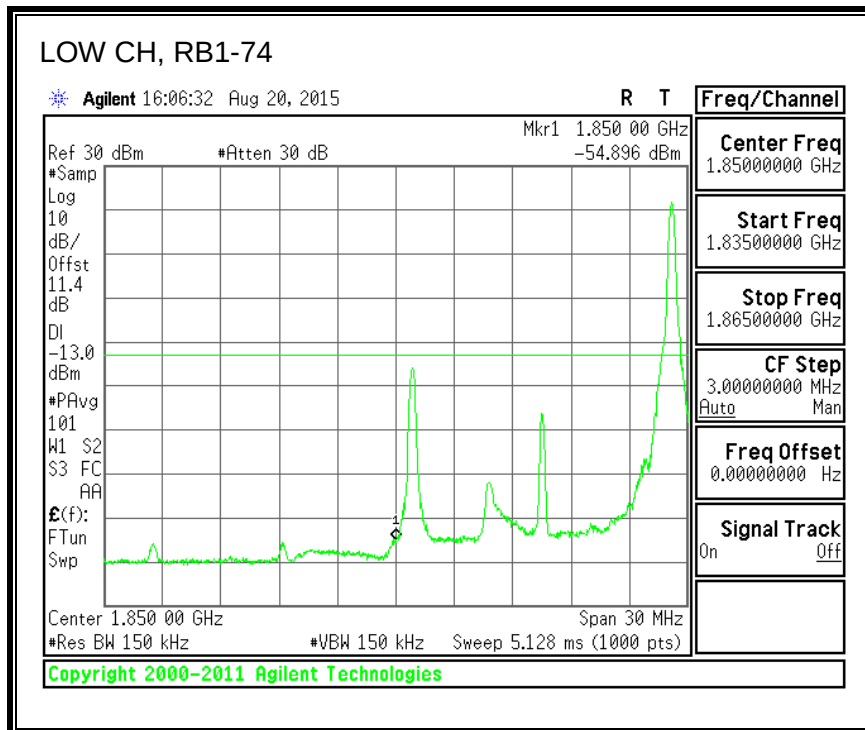


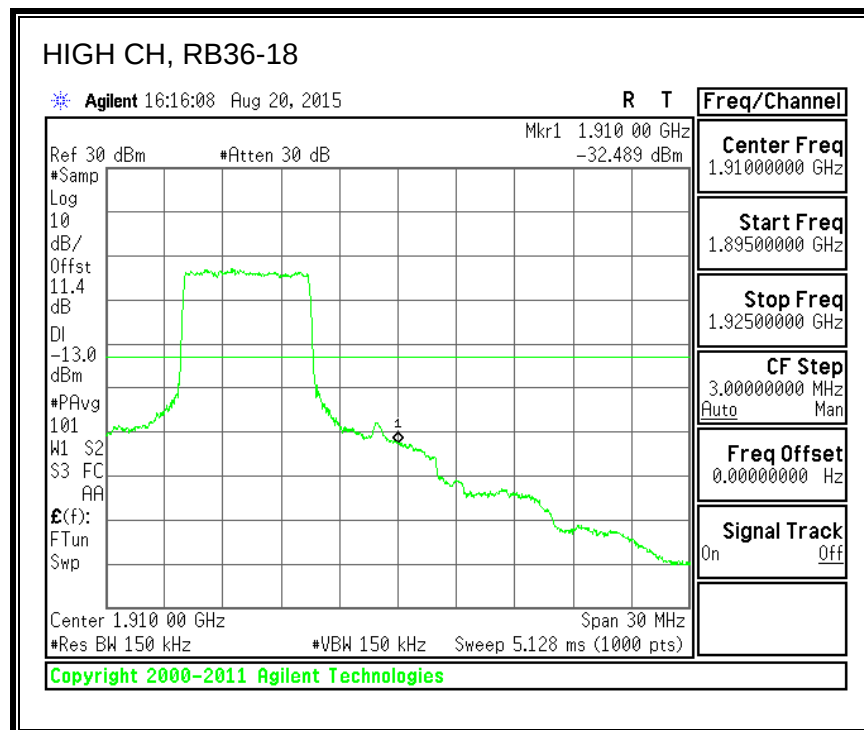
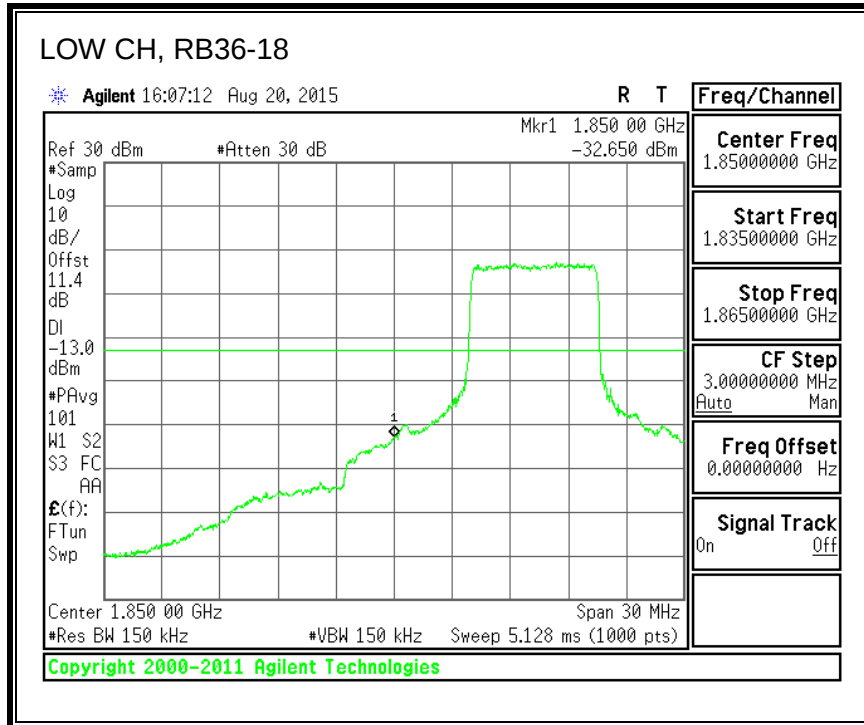


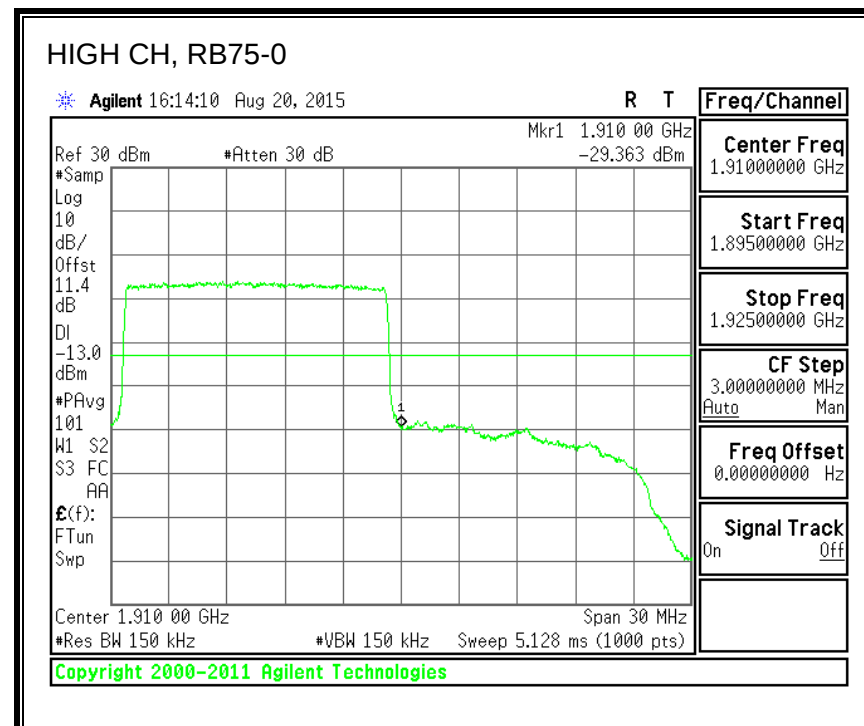
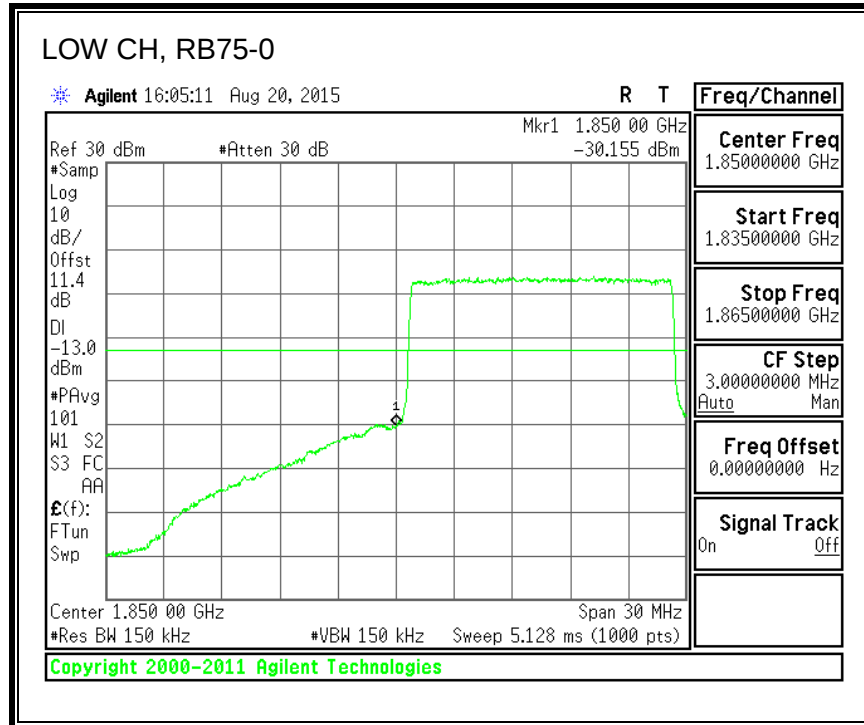


QPSK, (15.0 MHz BAND WIDTH)

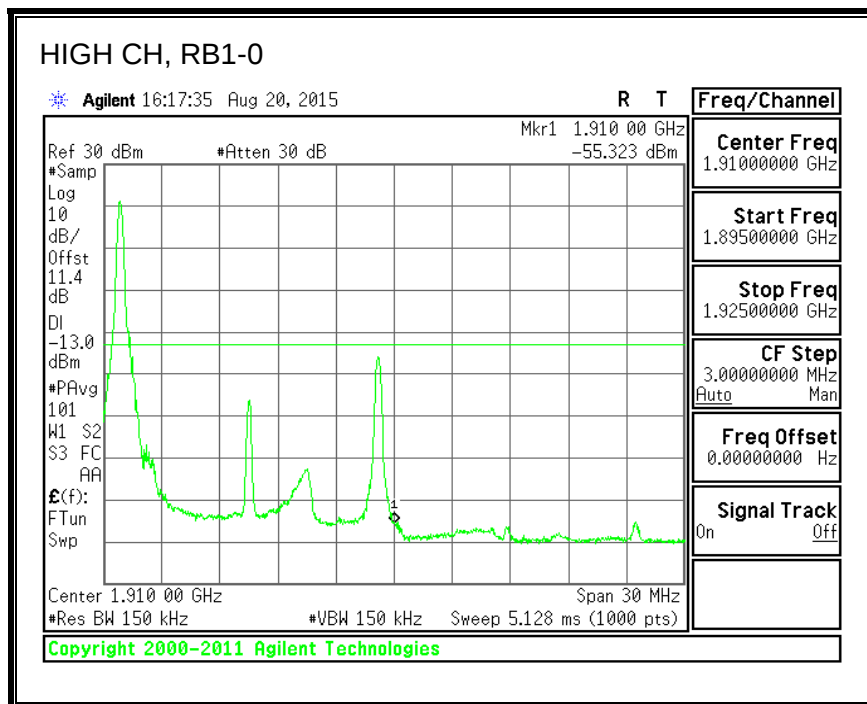
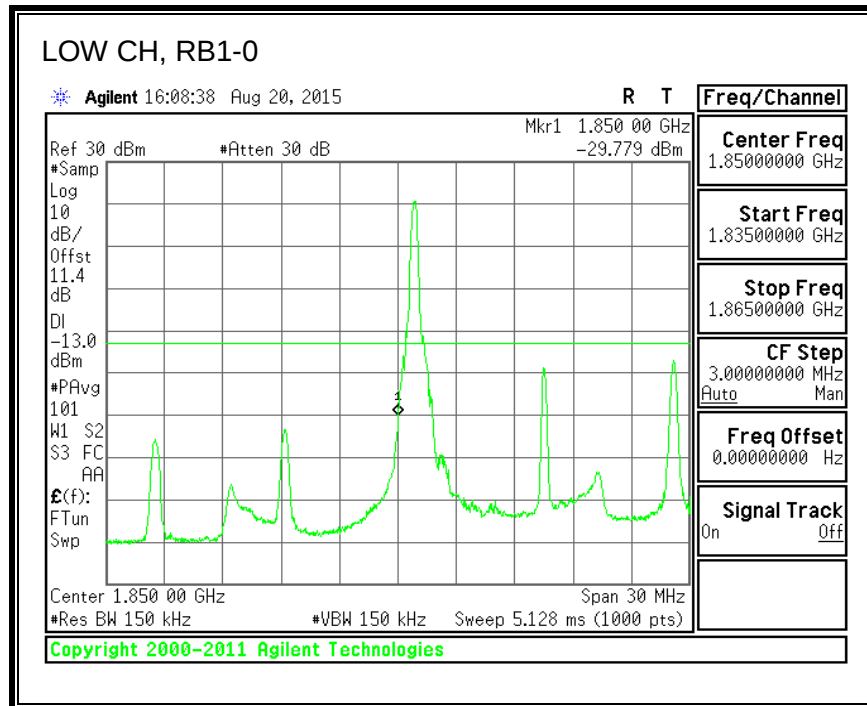


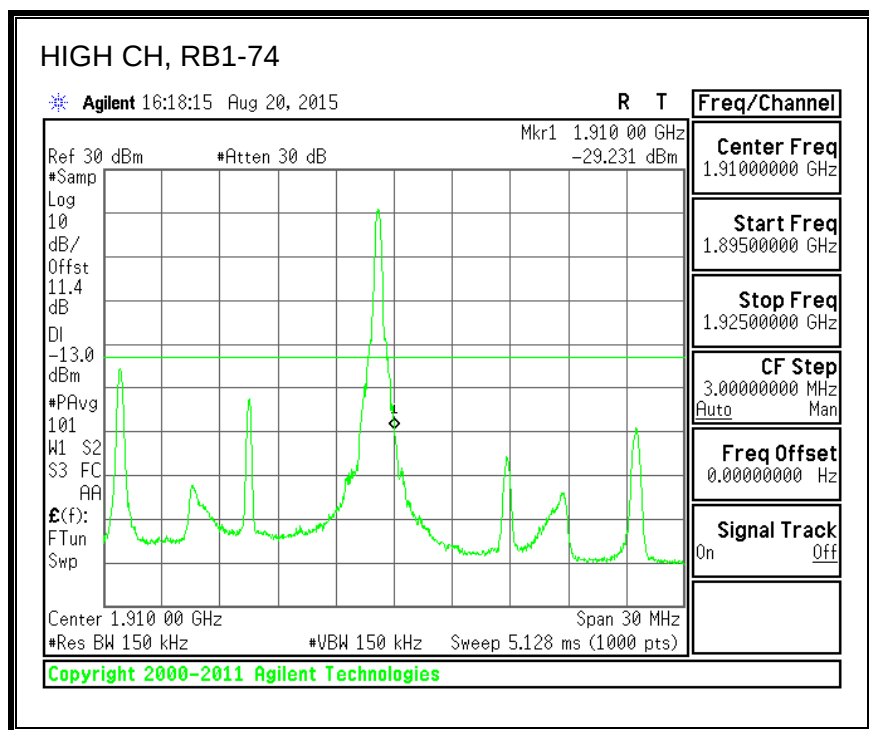
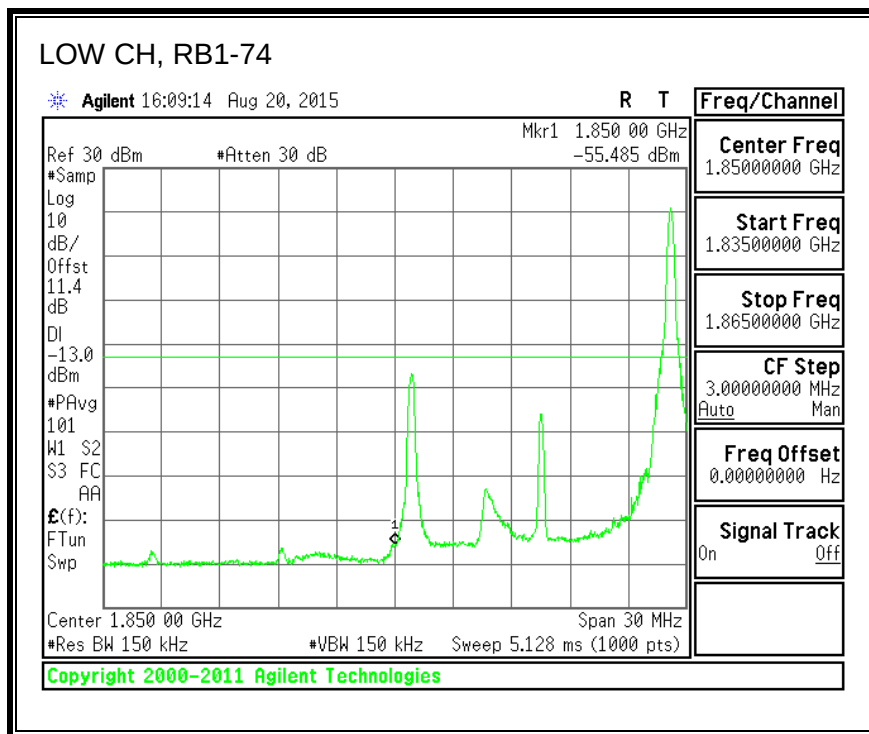


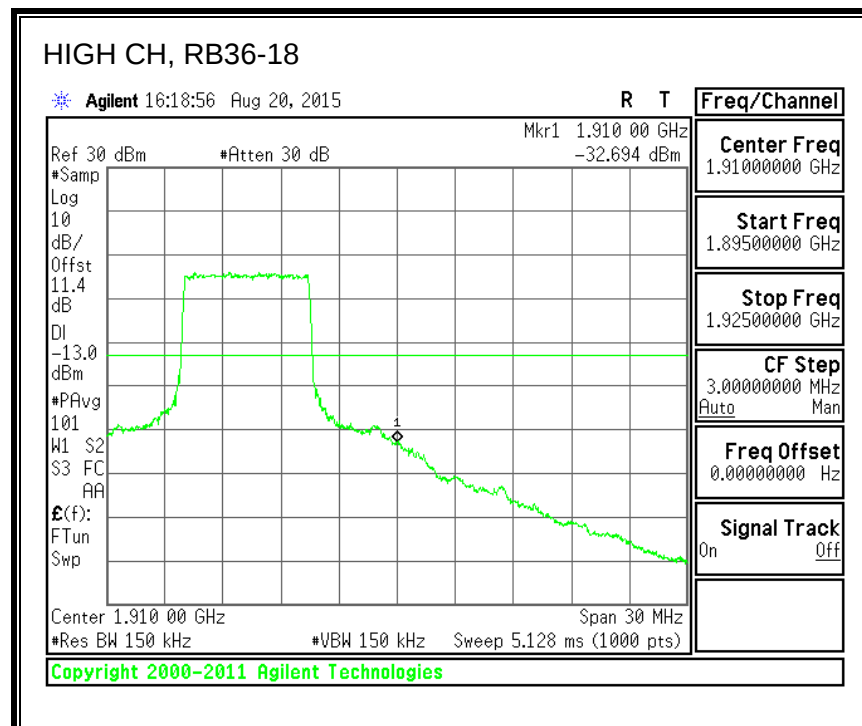
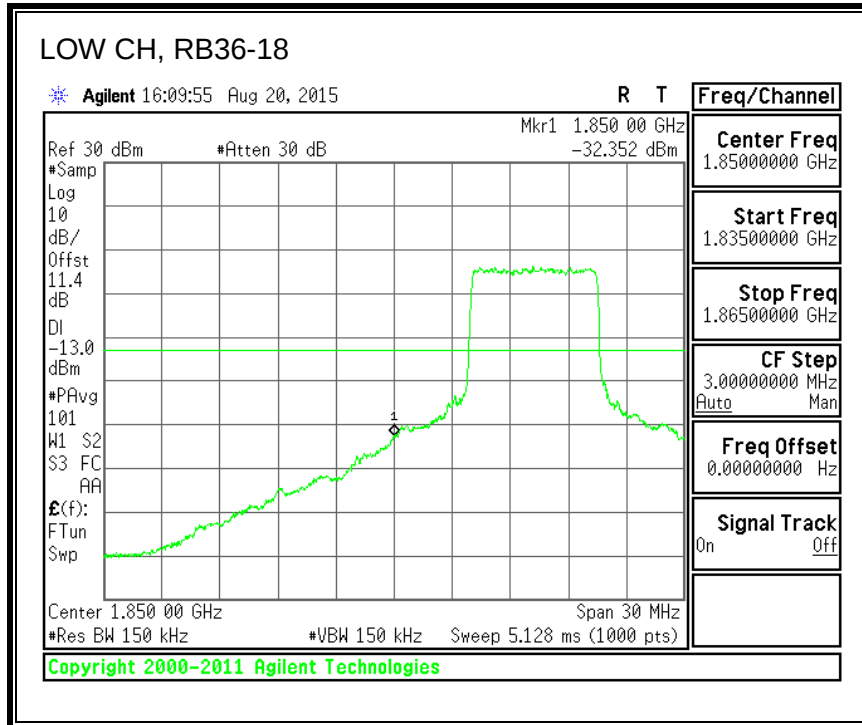


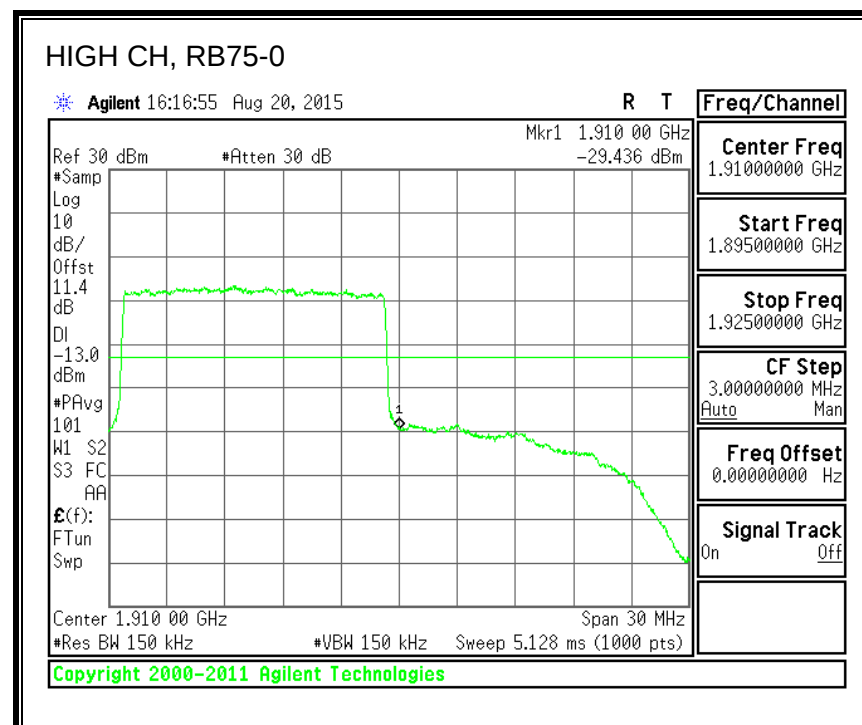
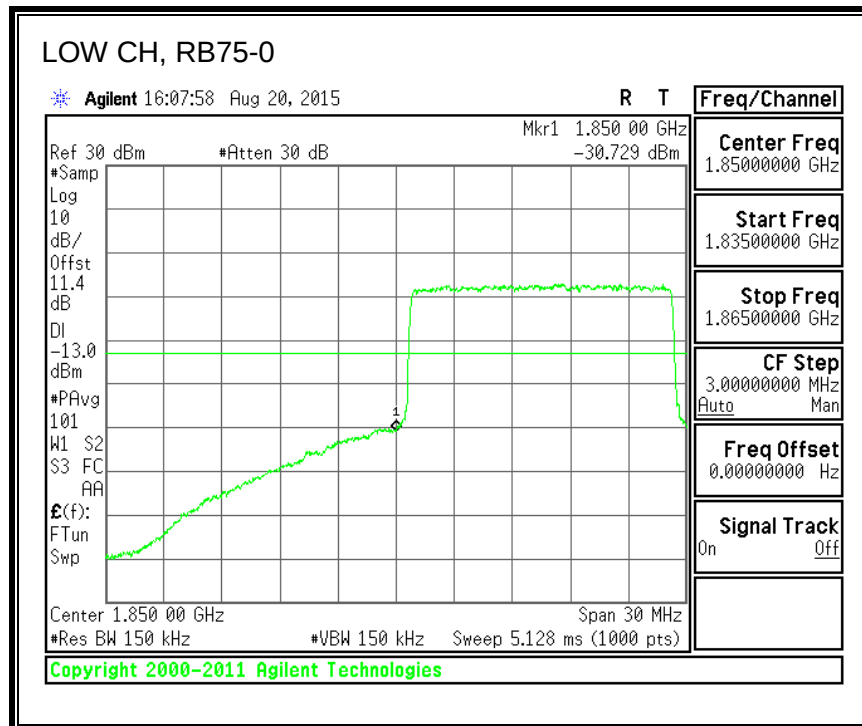


16QAM, (15.0 MHz BAND WIDTH)

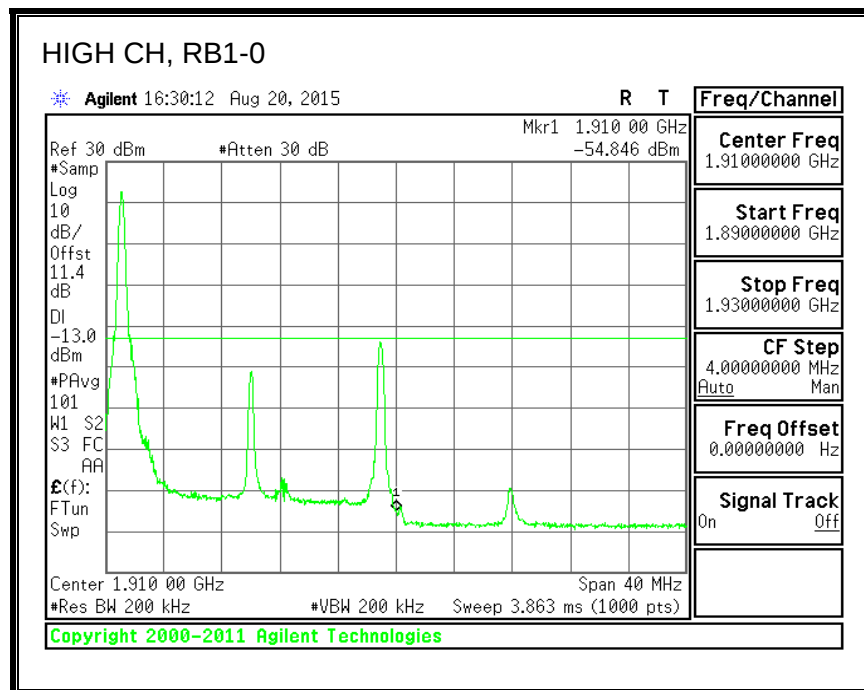
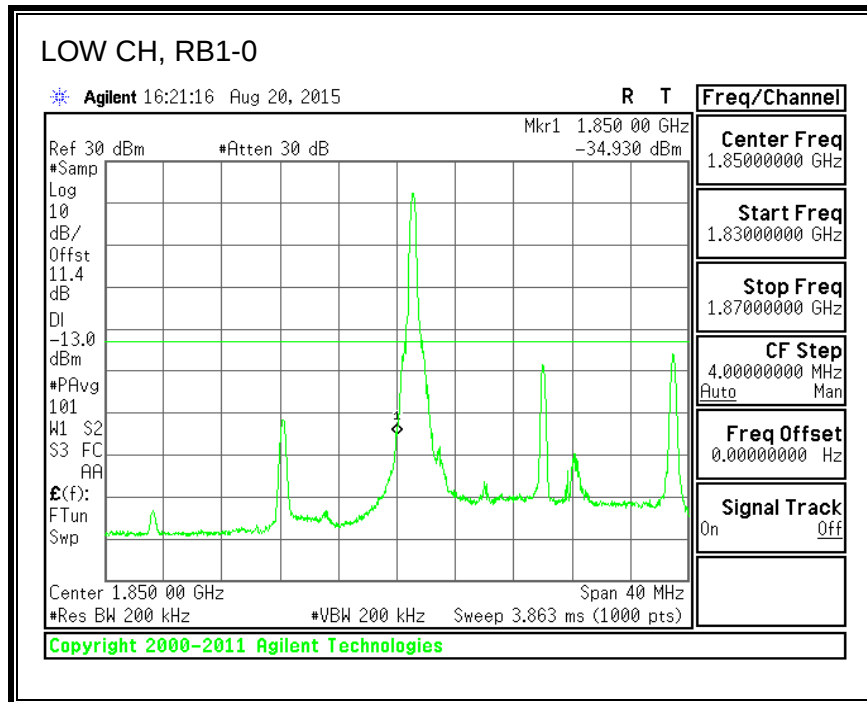


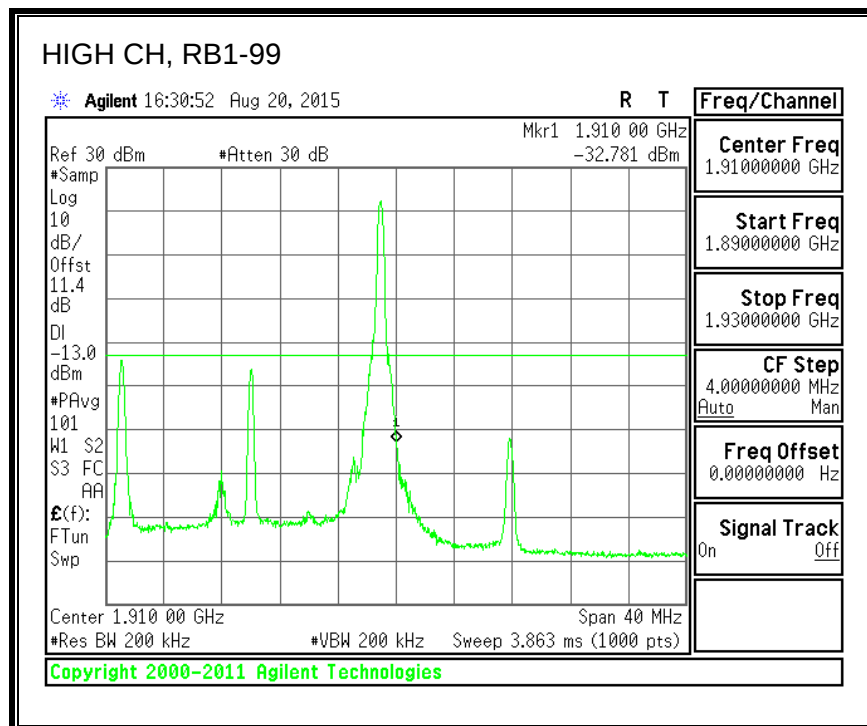
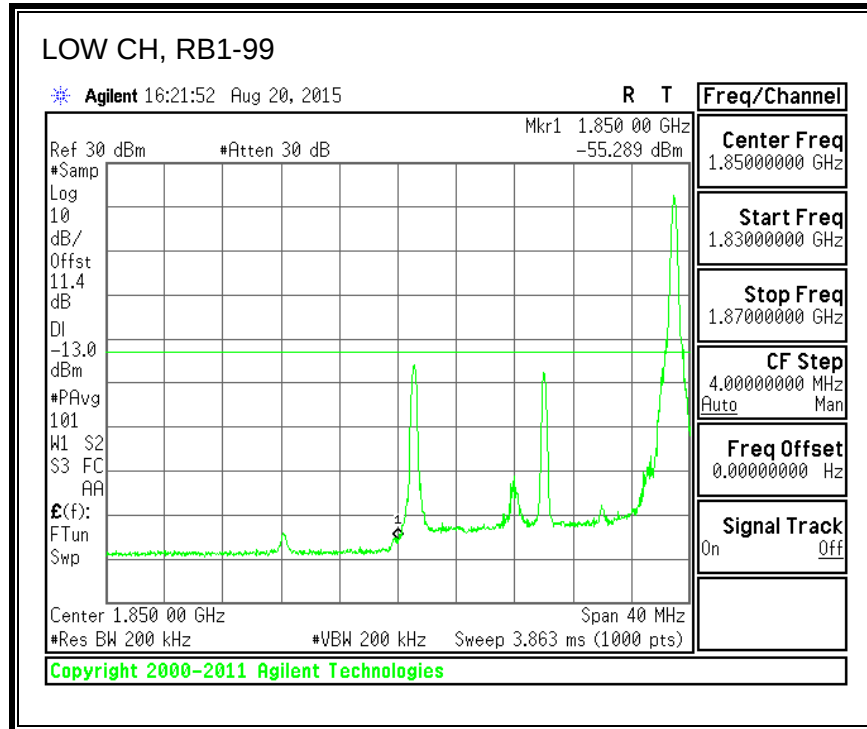


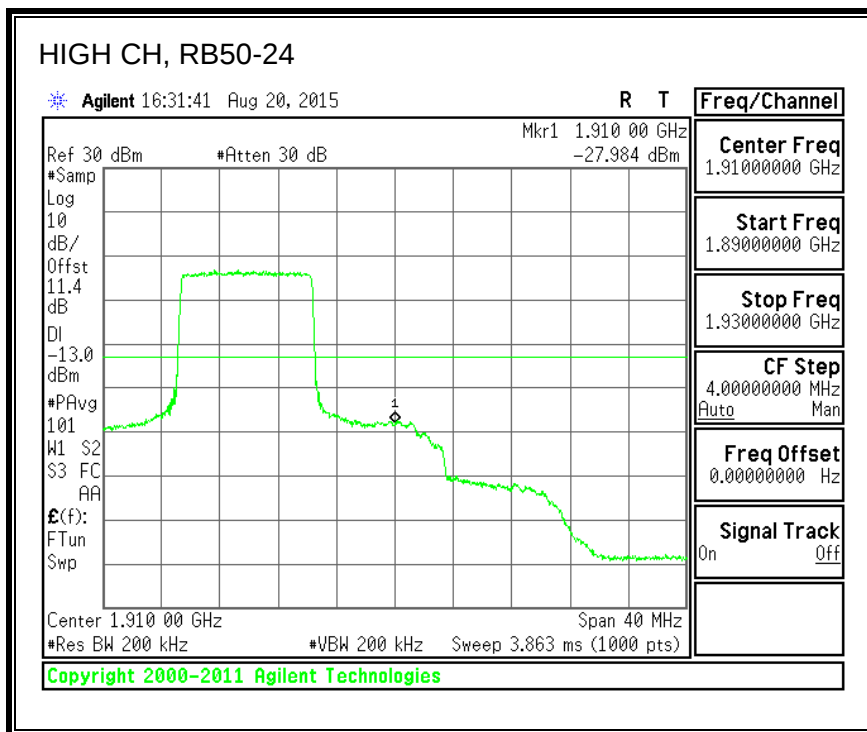
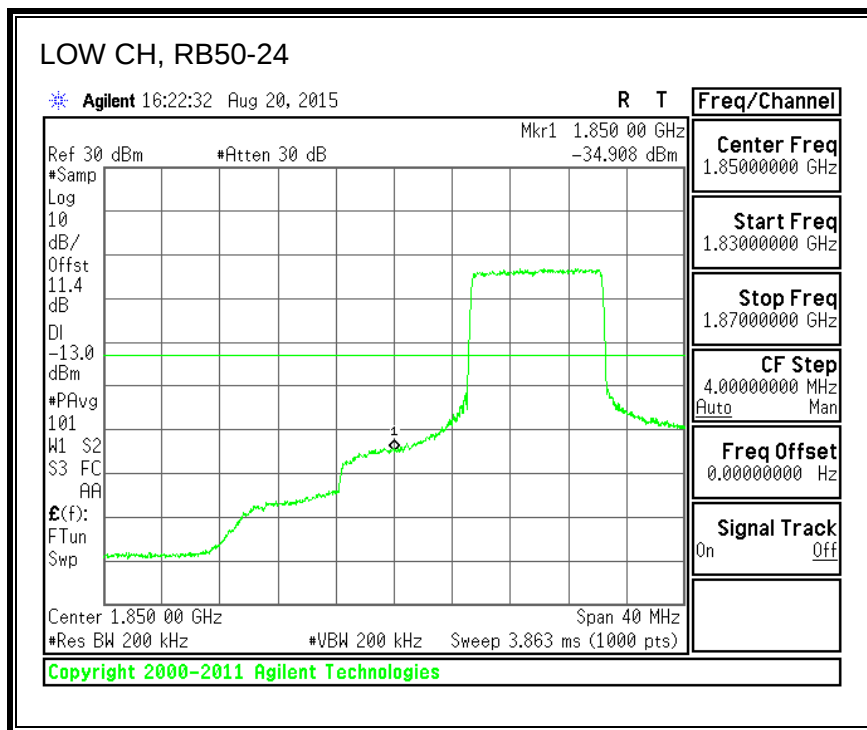


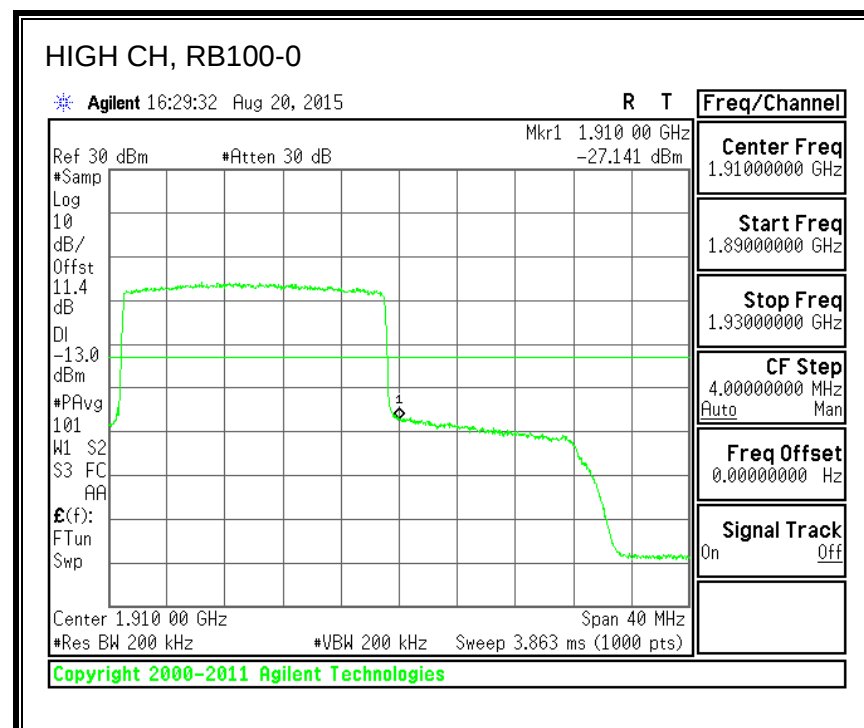
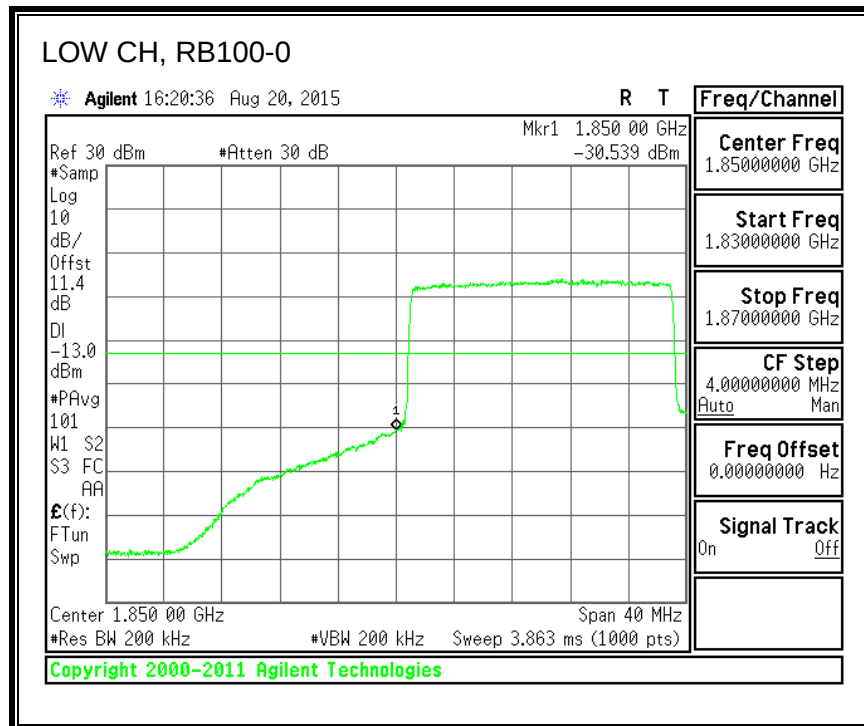


QPSK, (20.0 MHz BAND WIDTH)

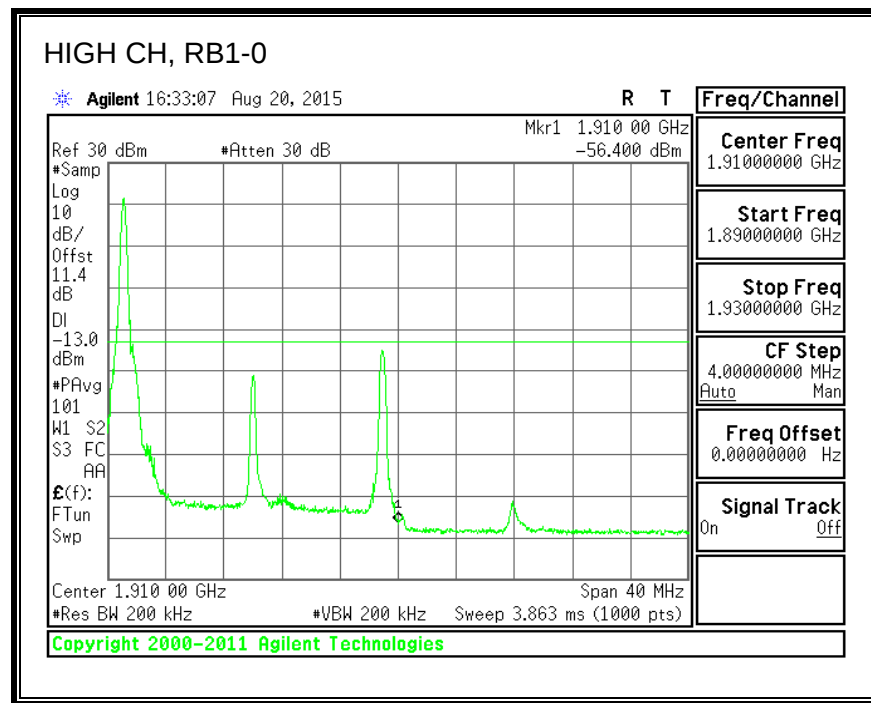
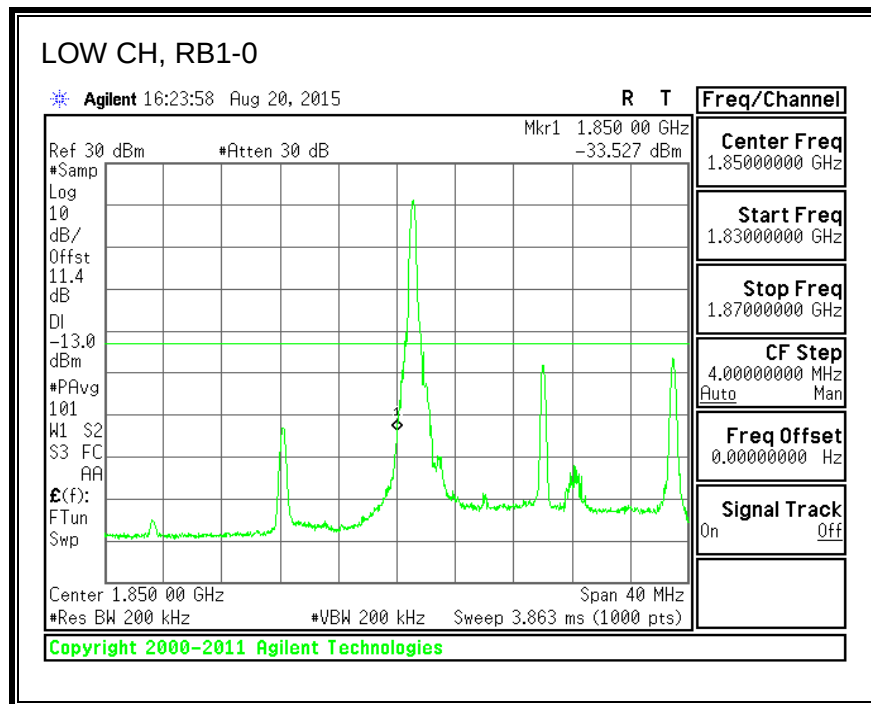


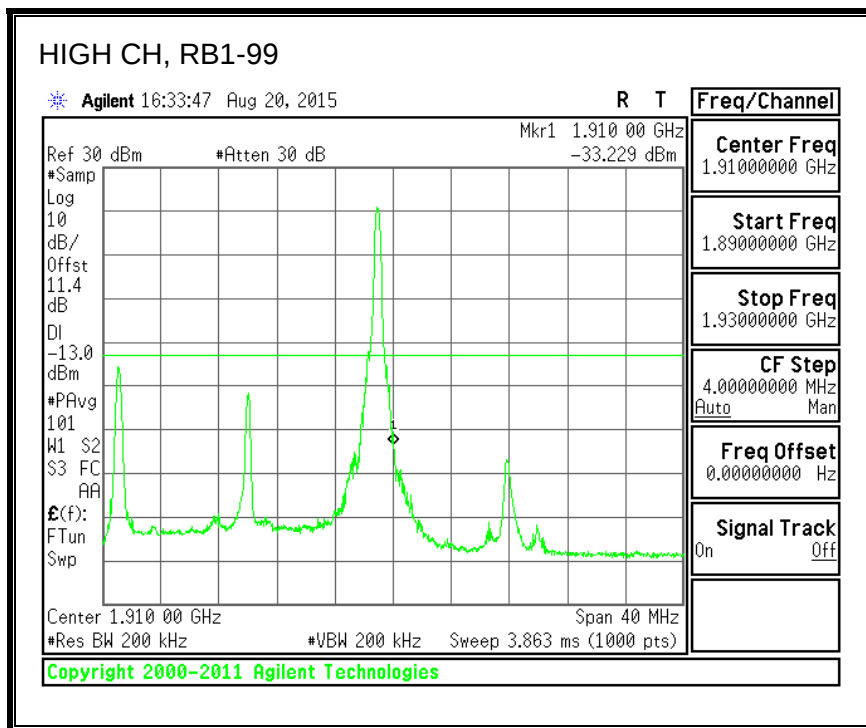
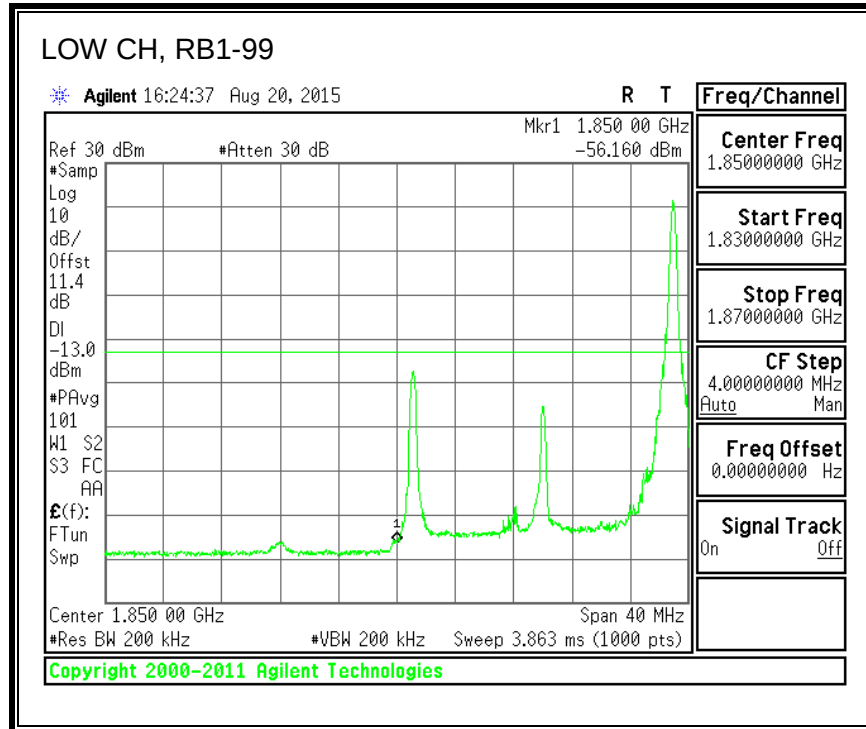


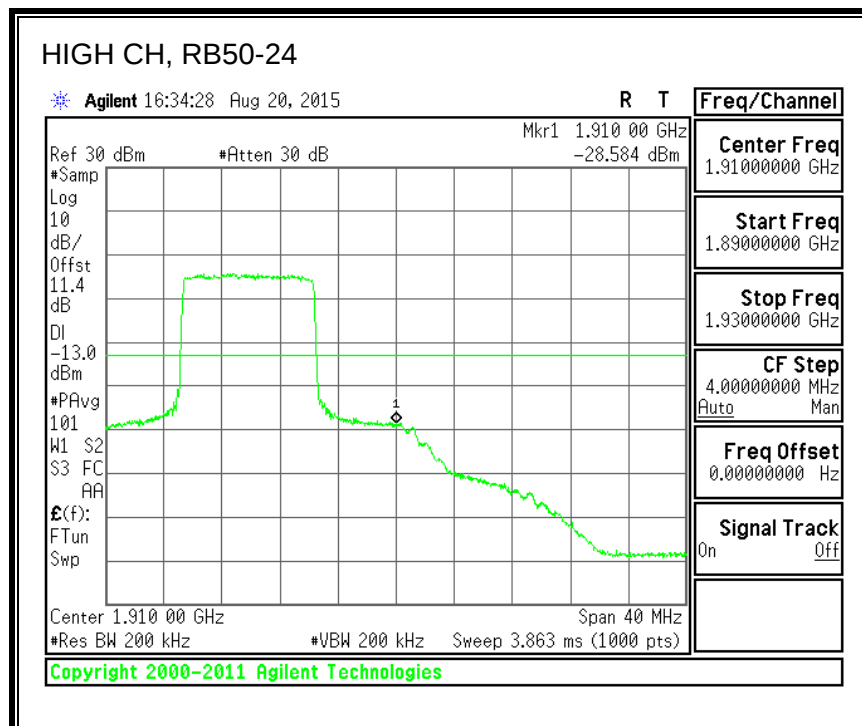
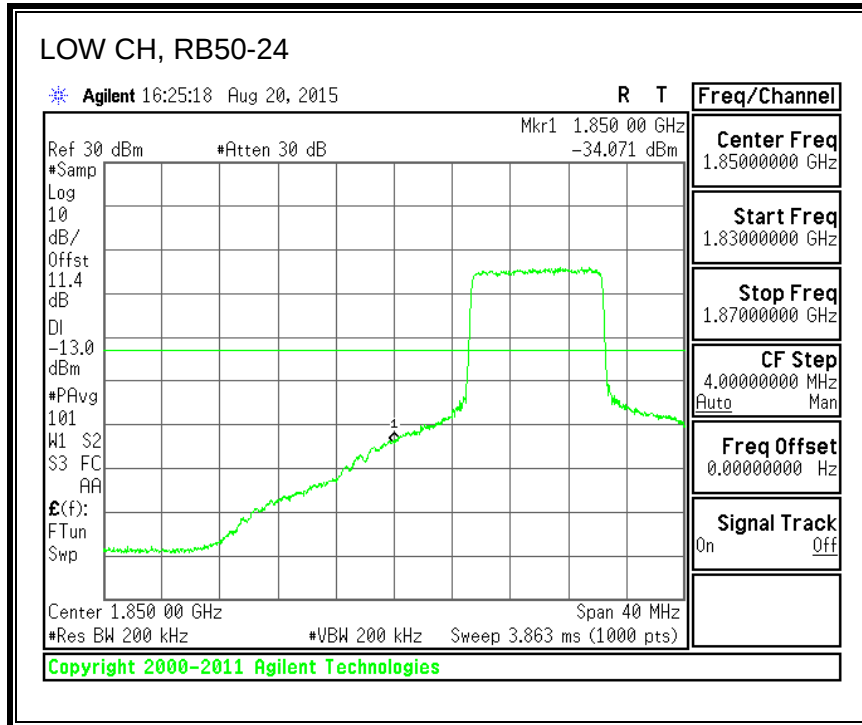


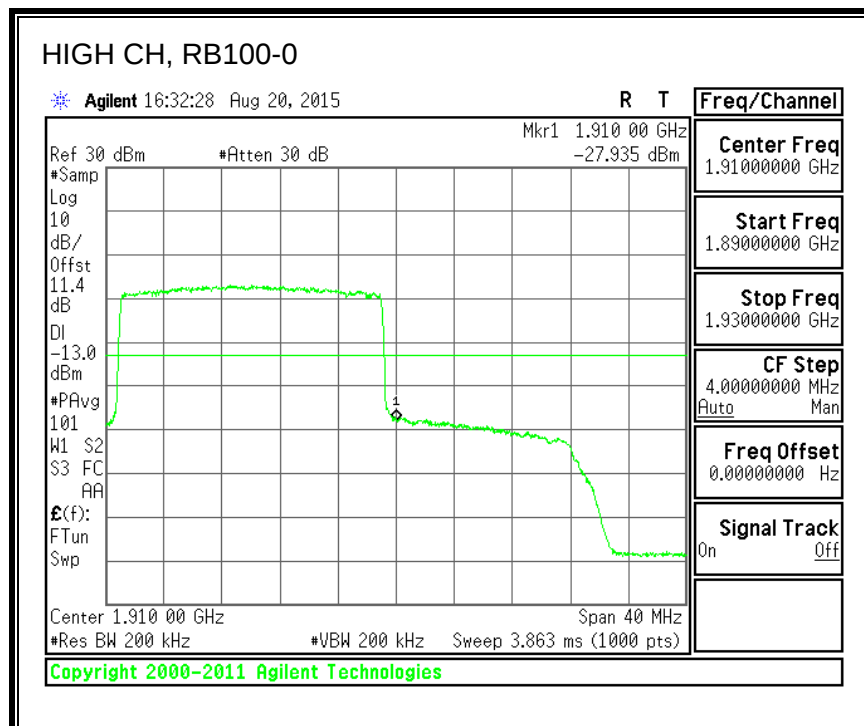
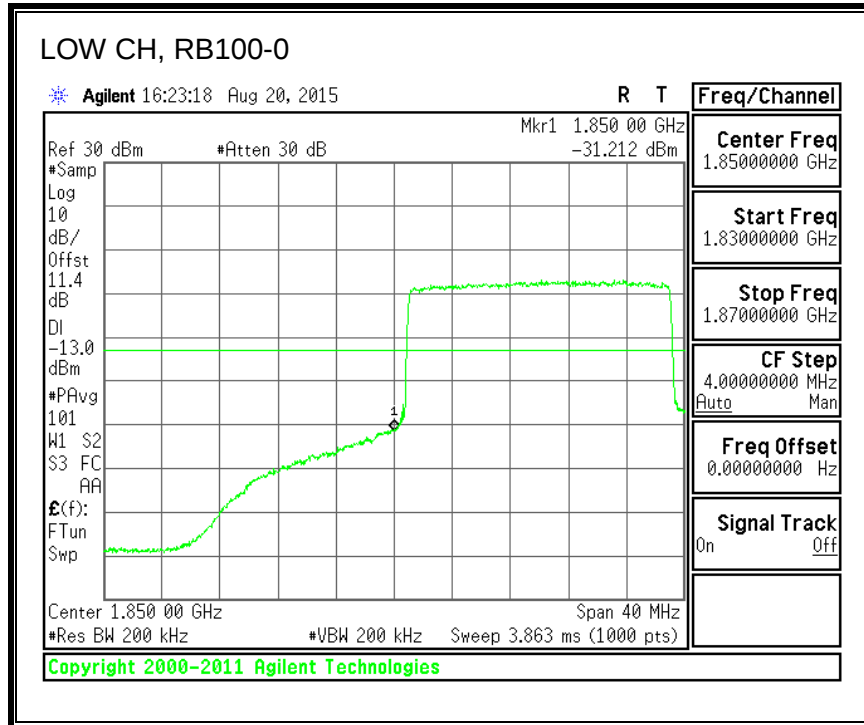


16QAM, (20.0 MHz BAND WIDTH)



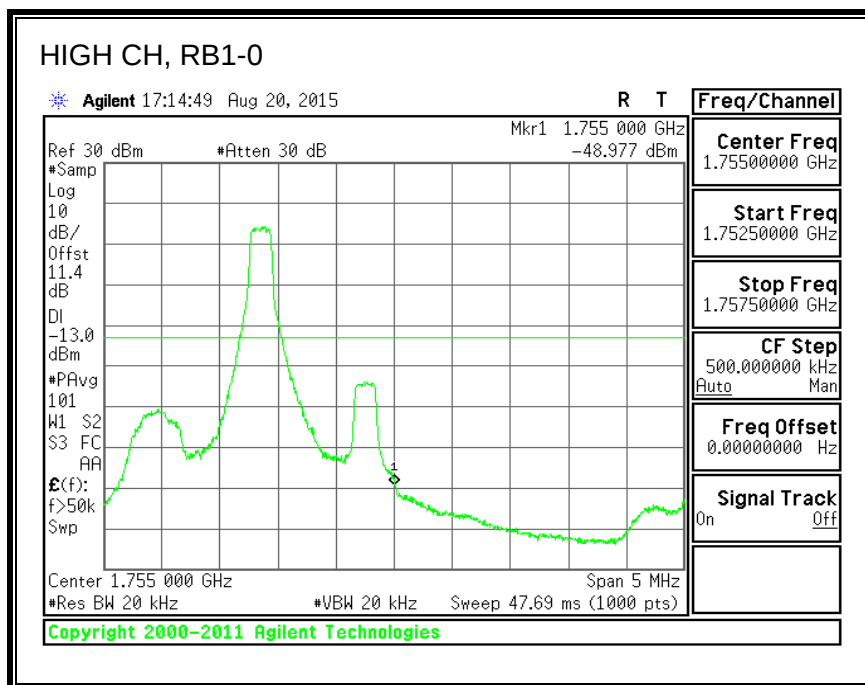
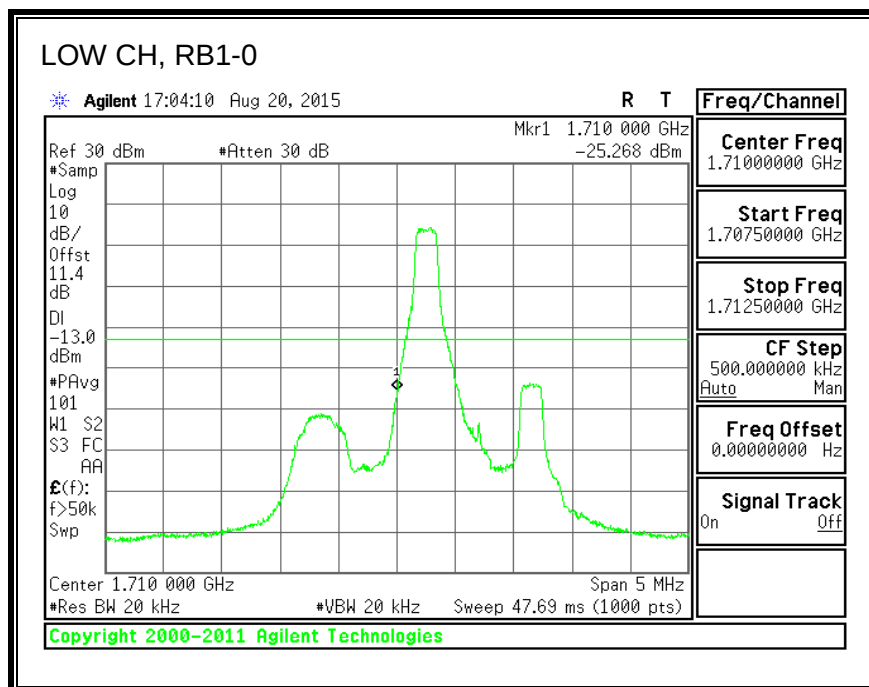


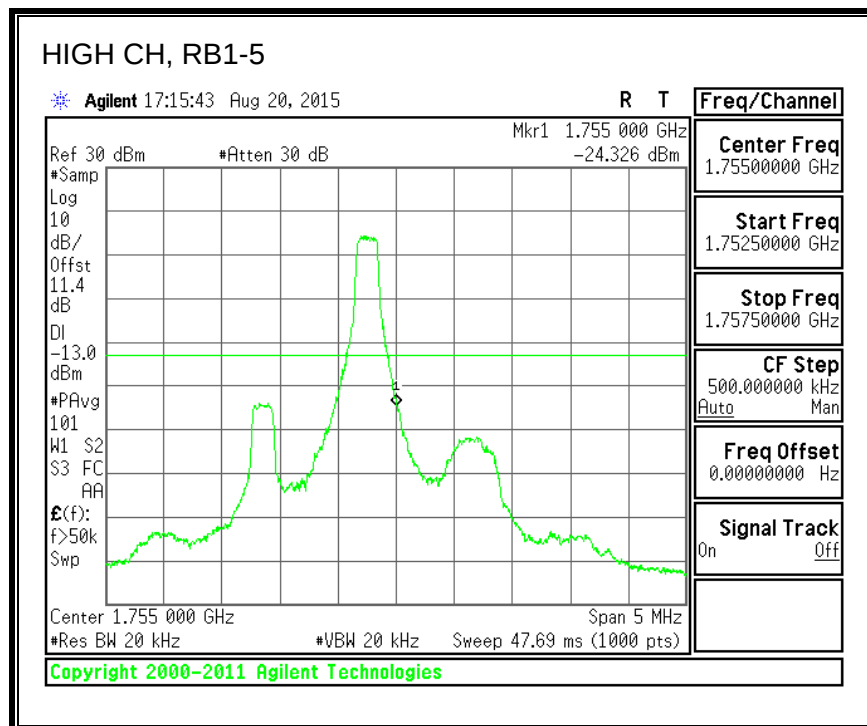
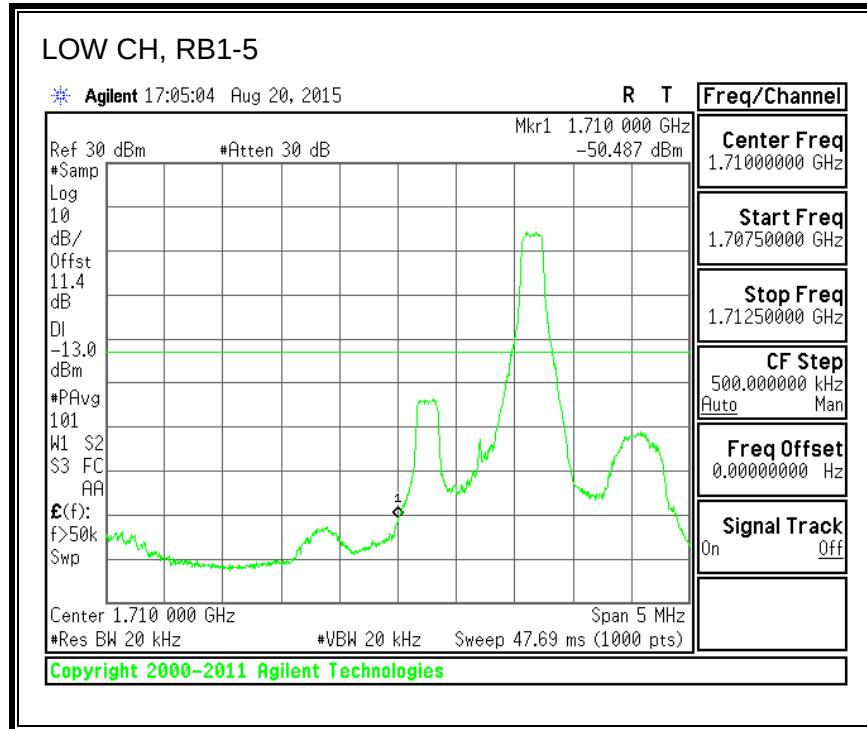


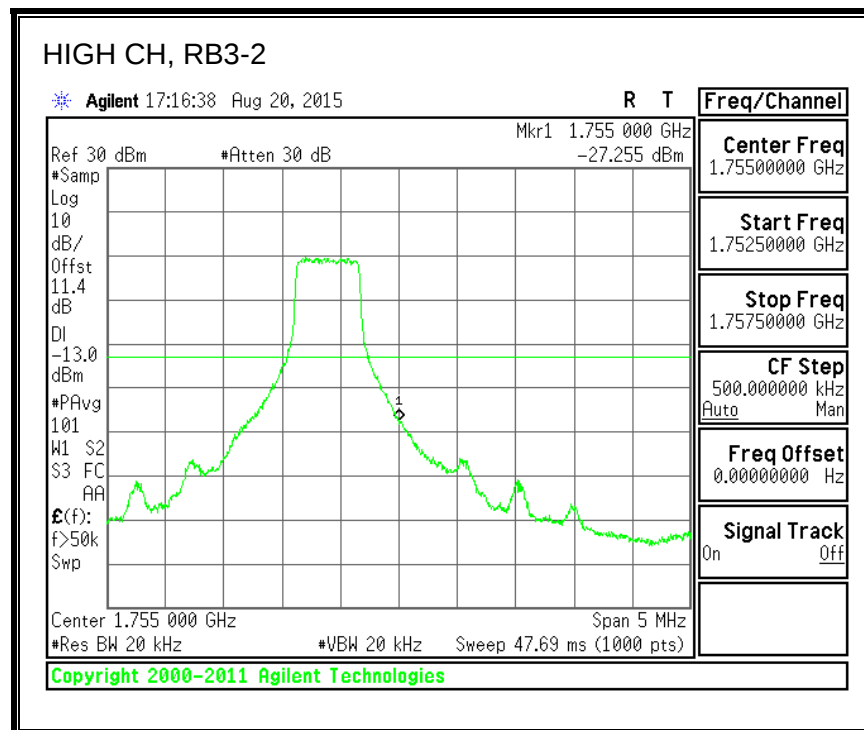
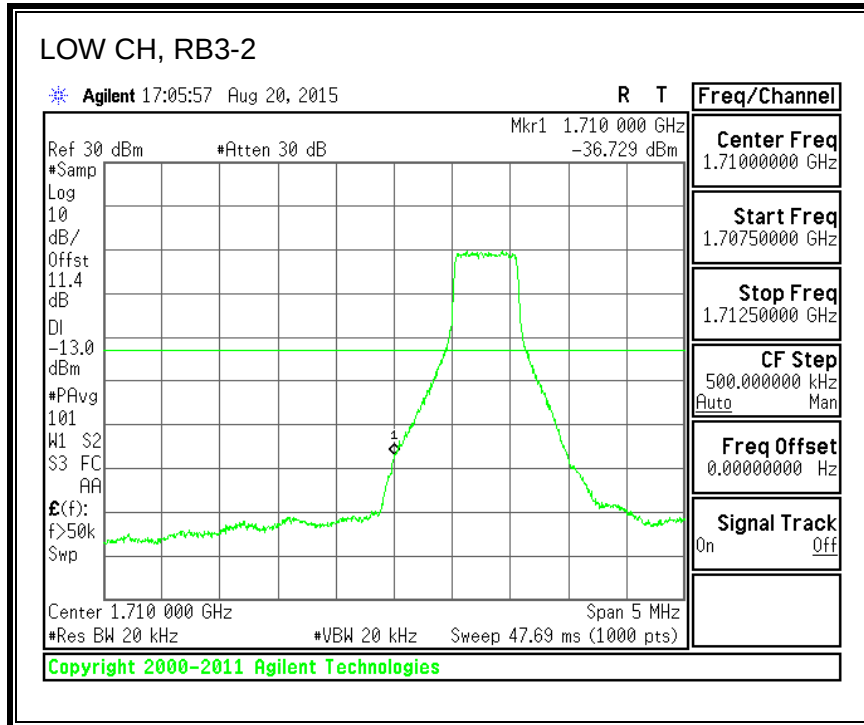


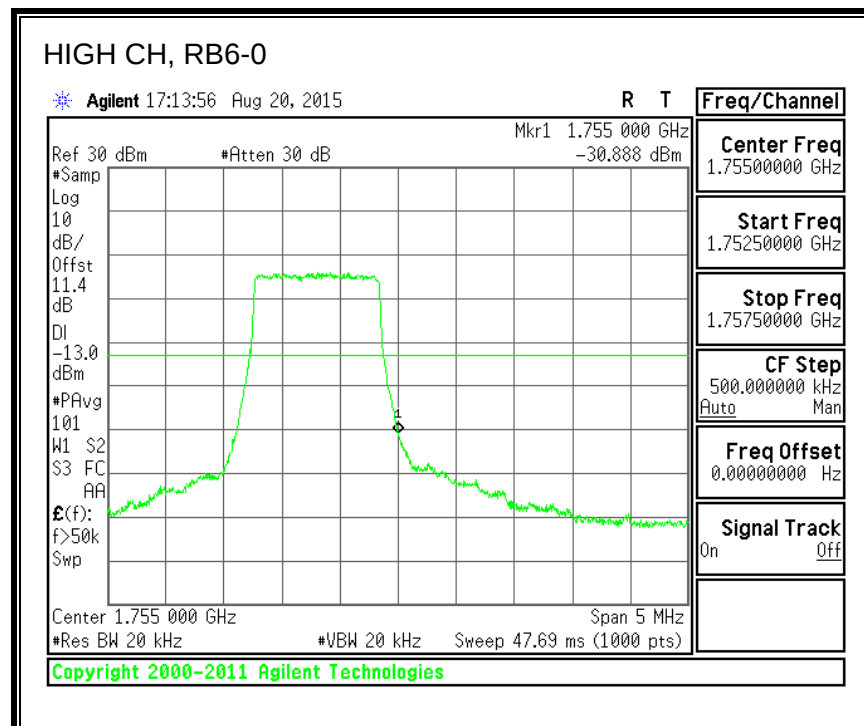
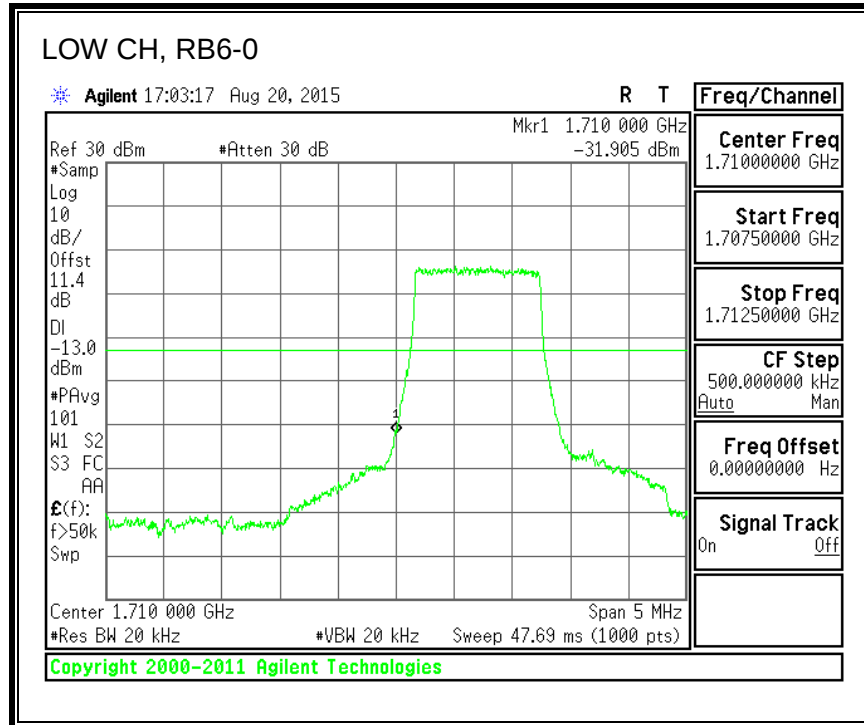
8.2.2. LTE BAND 4 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

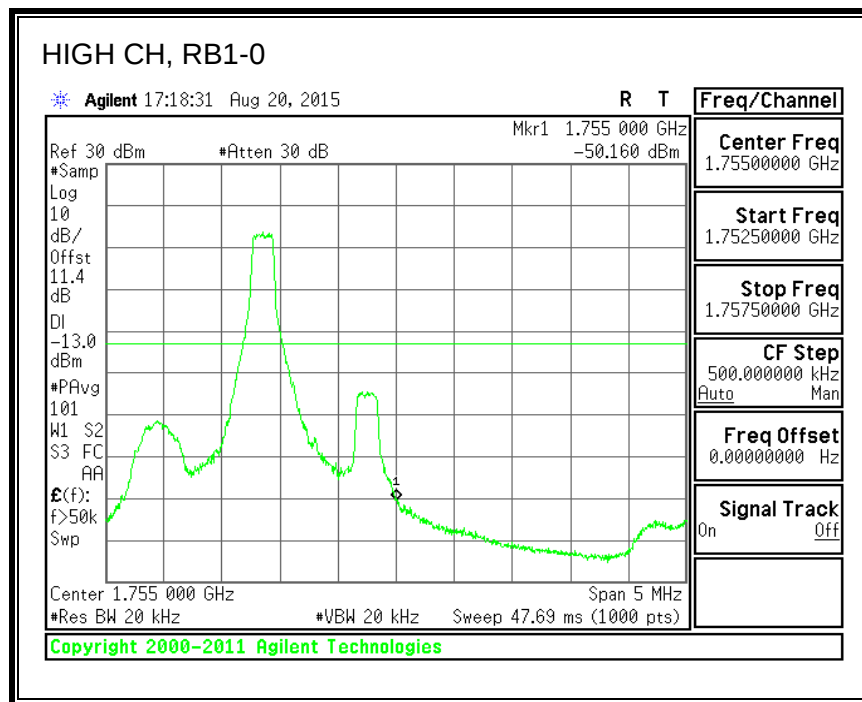
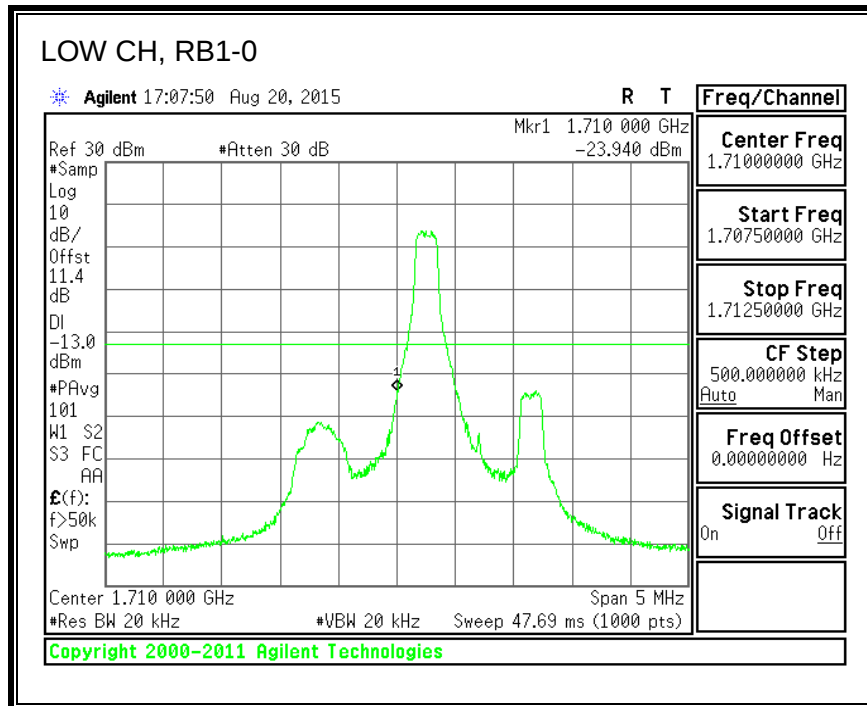


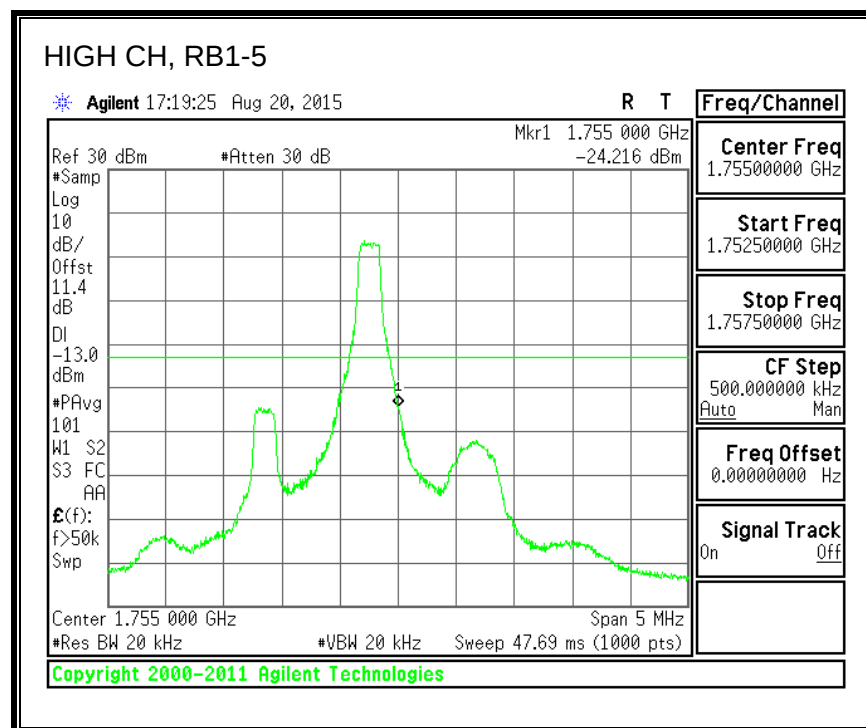
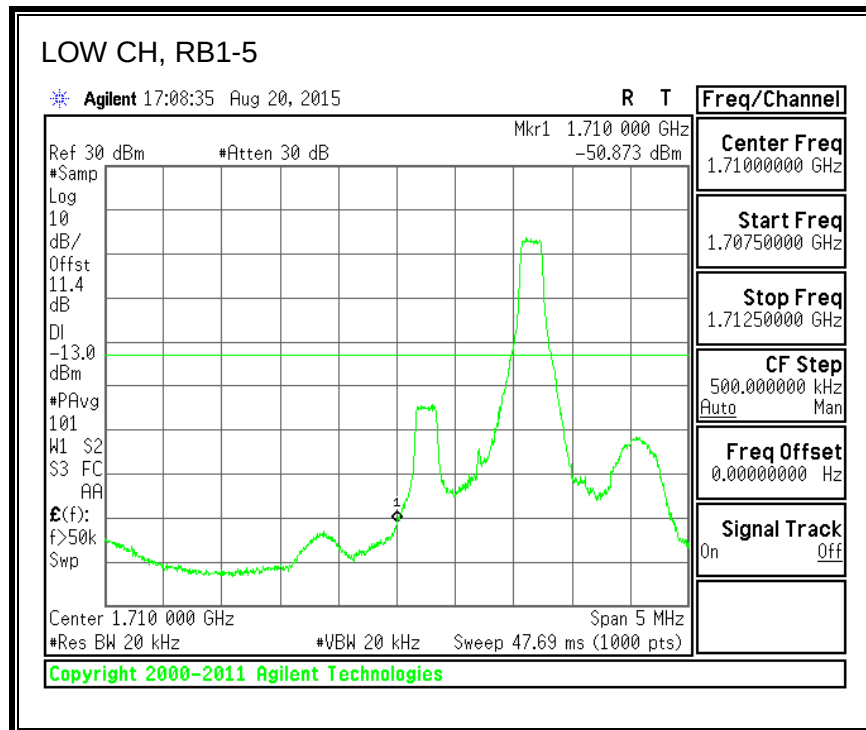


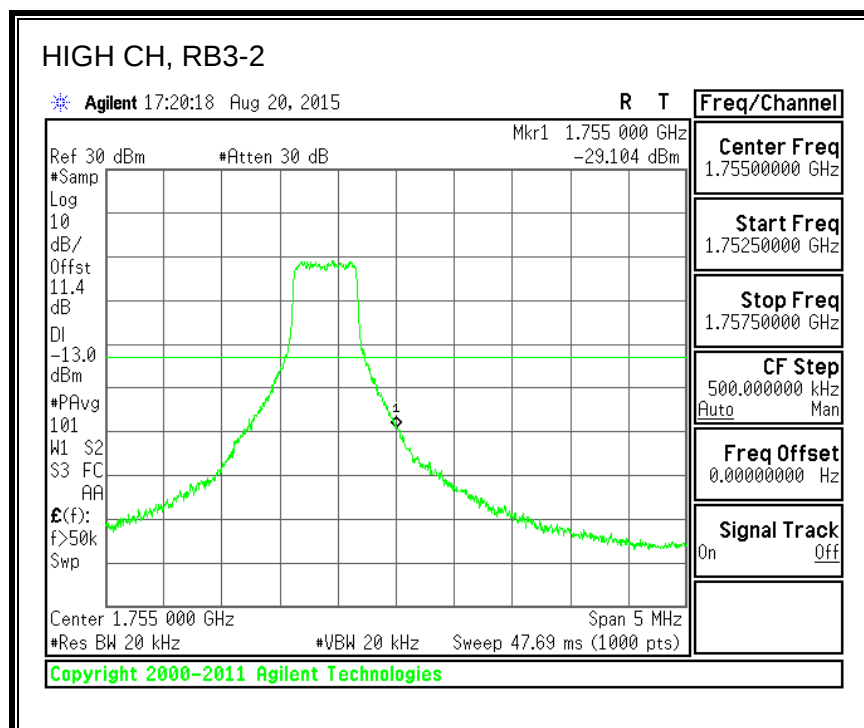
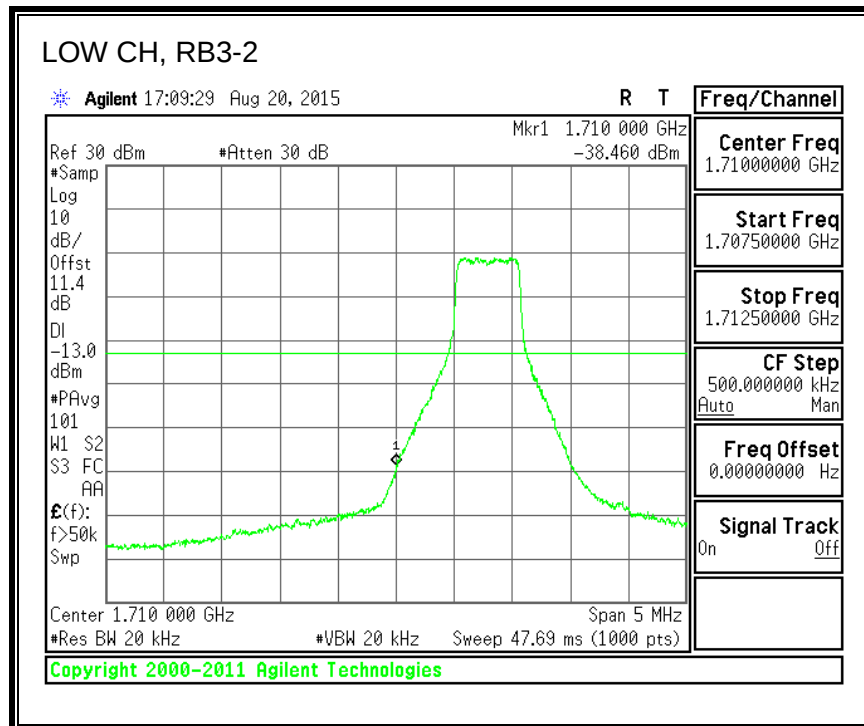


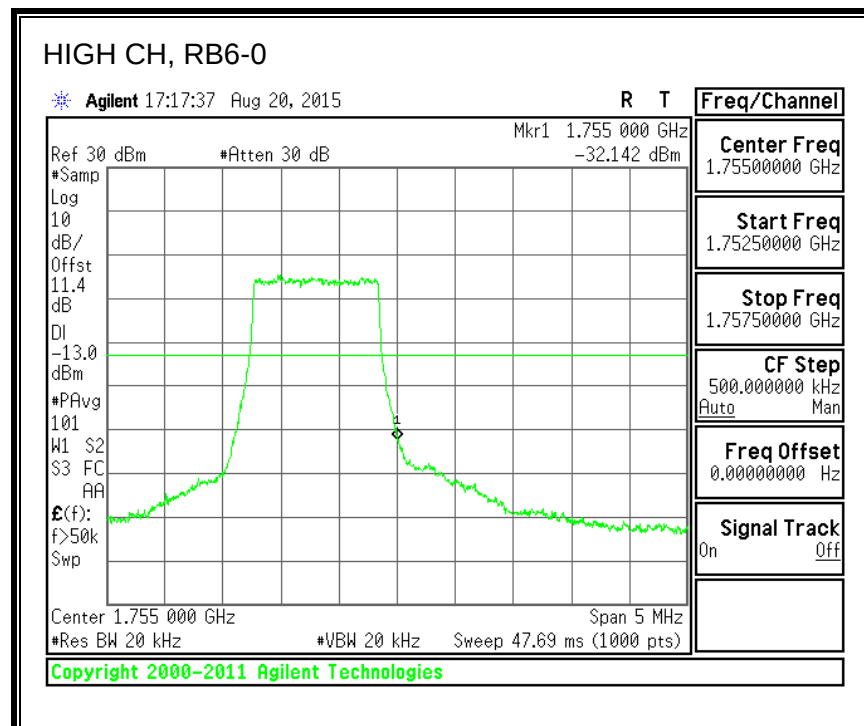
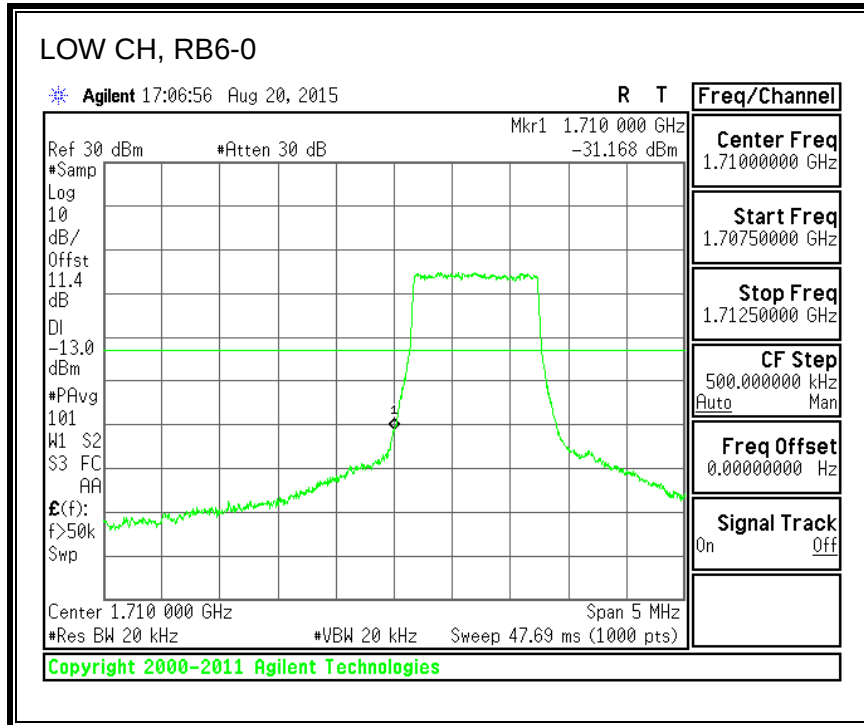


16QAM, (1.4 MHz BAND WIDTH)

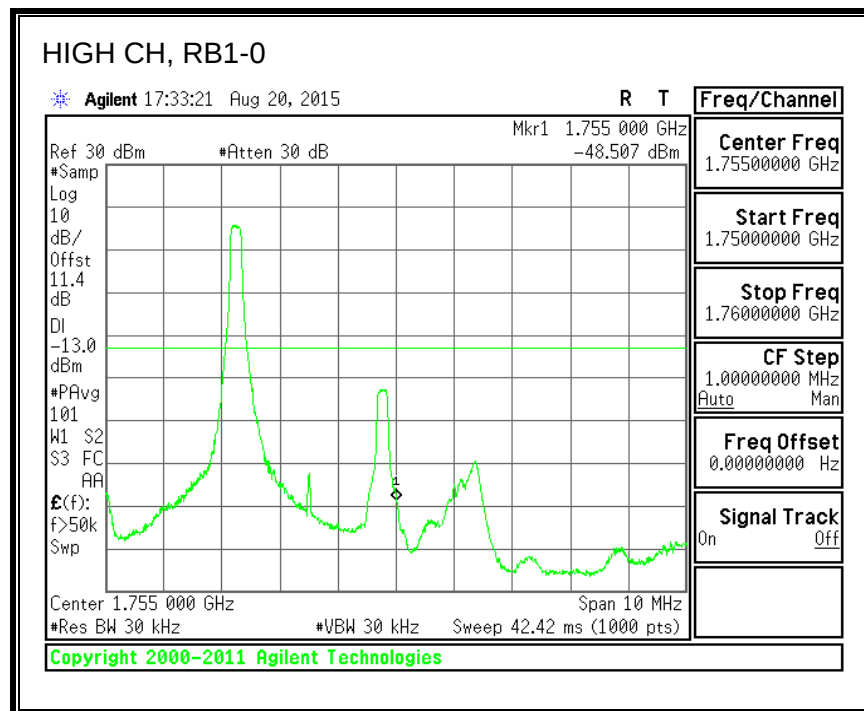
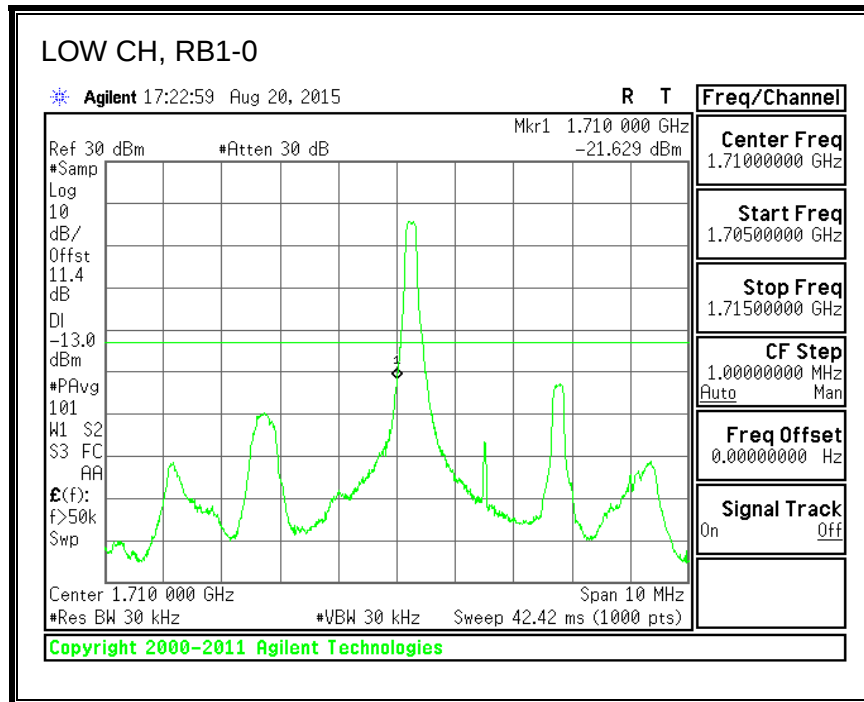


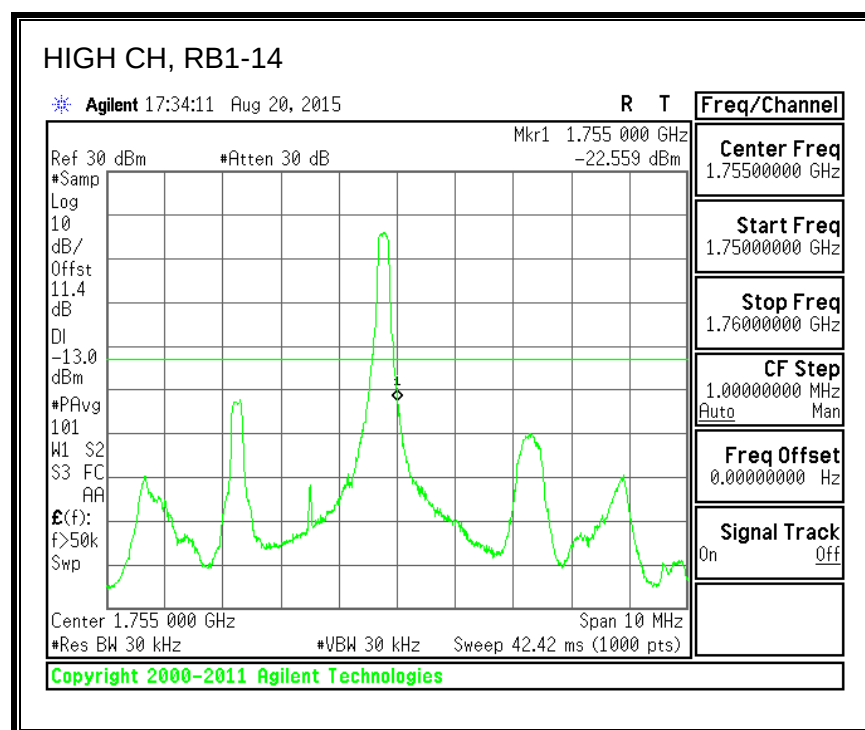
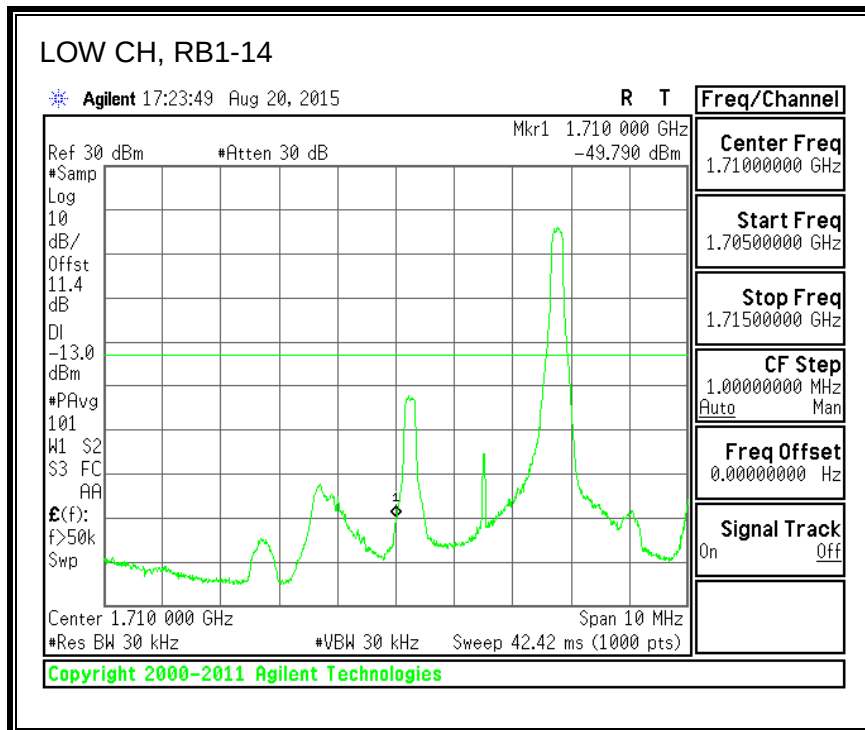


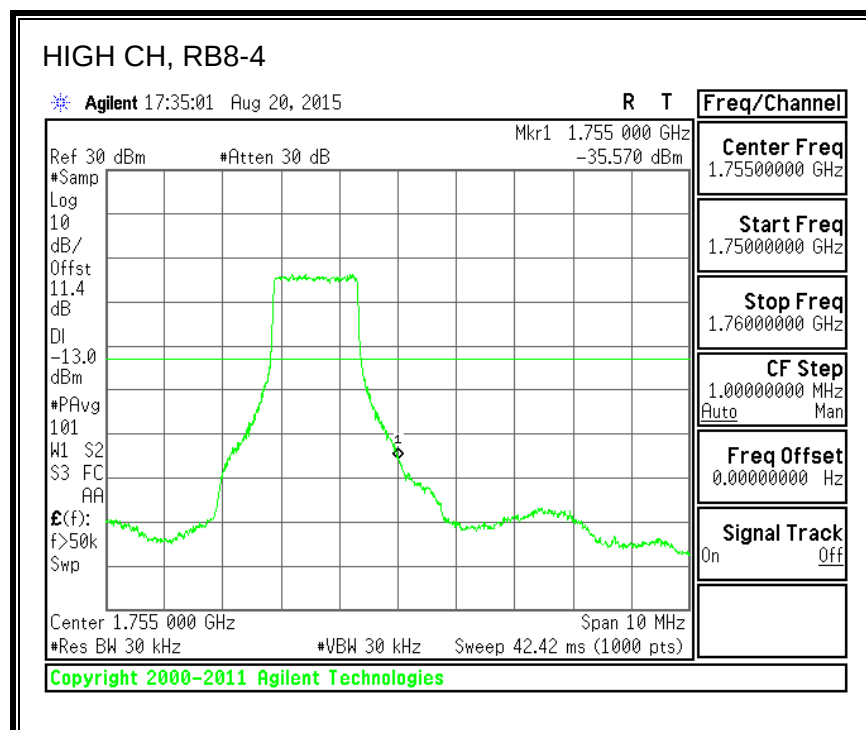
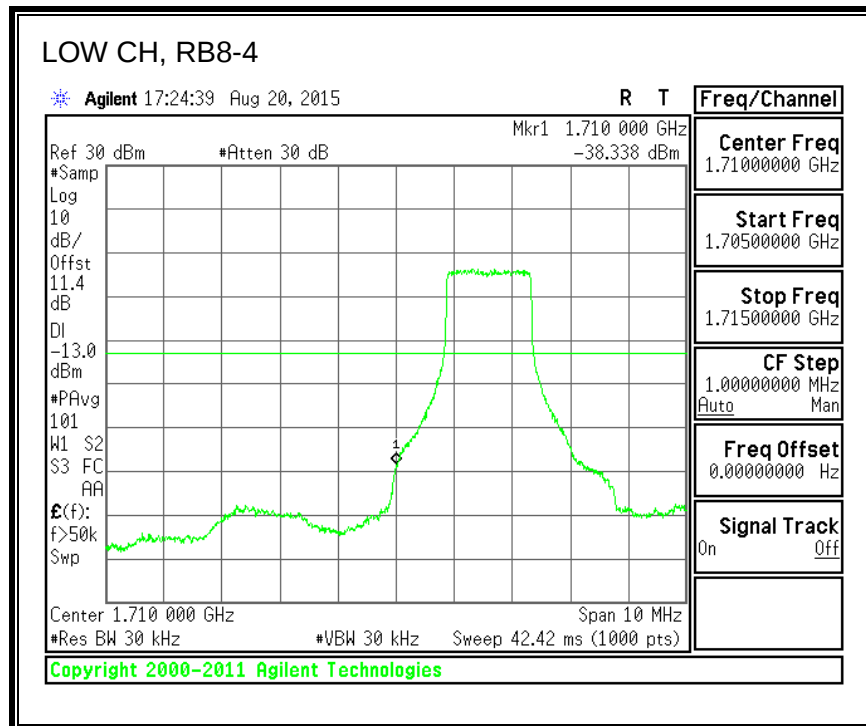


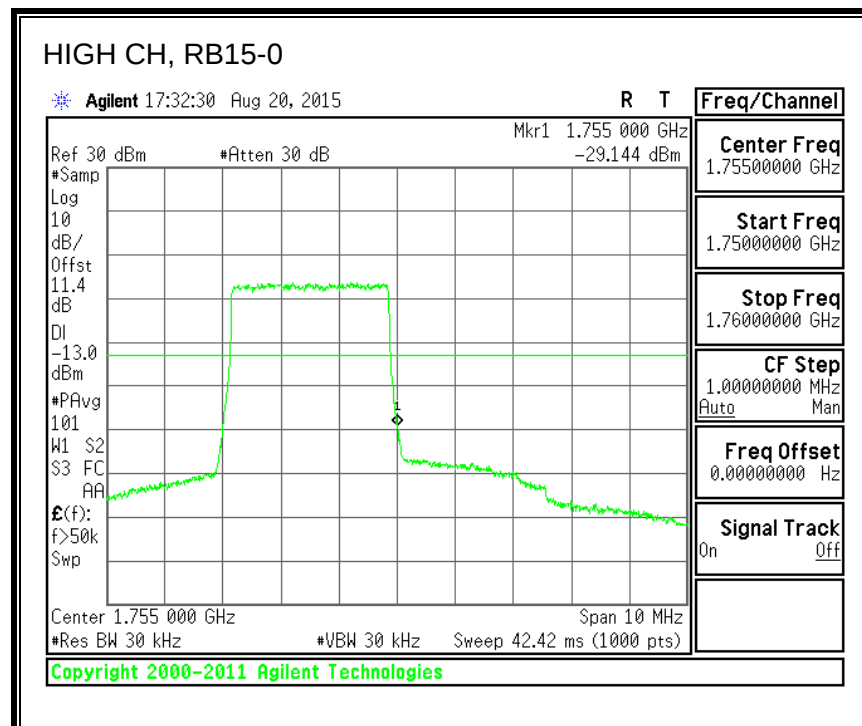
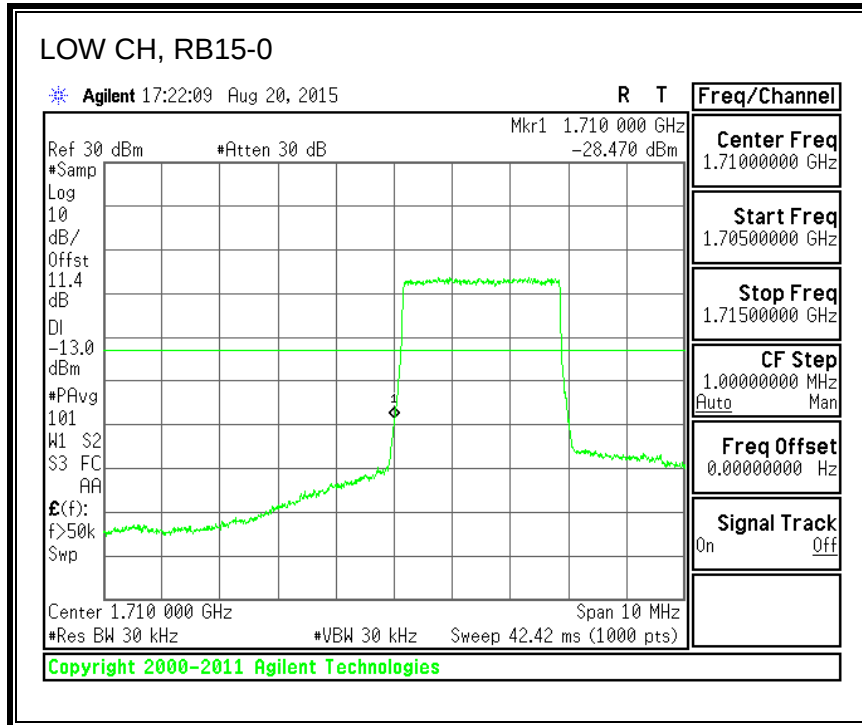


QPSK, (3.0 MHz BAND WIDTH)

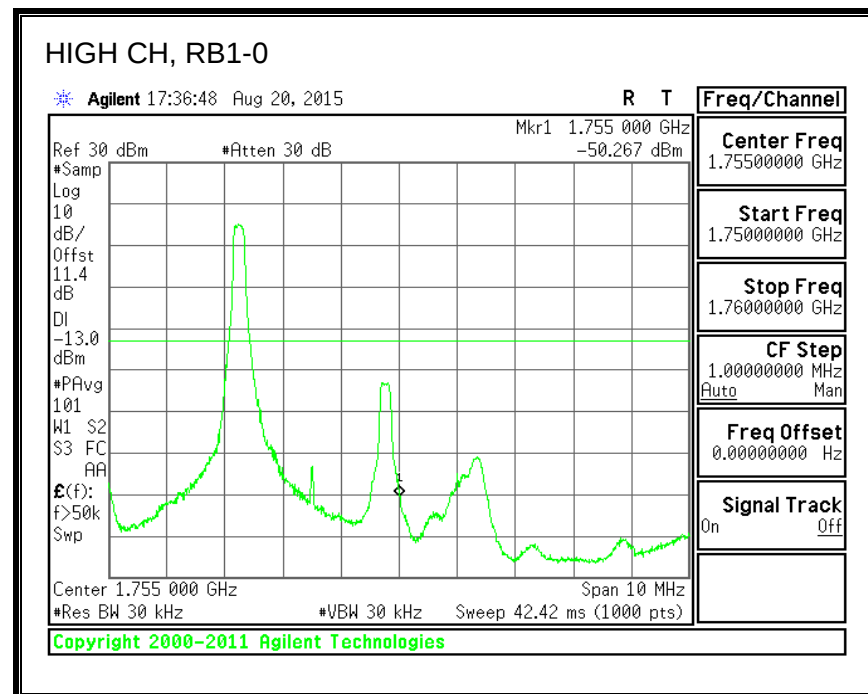
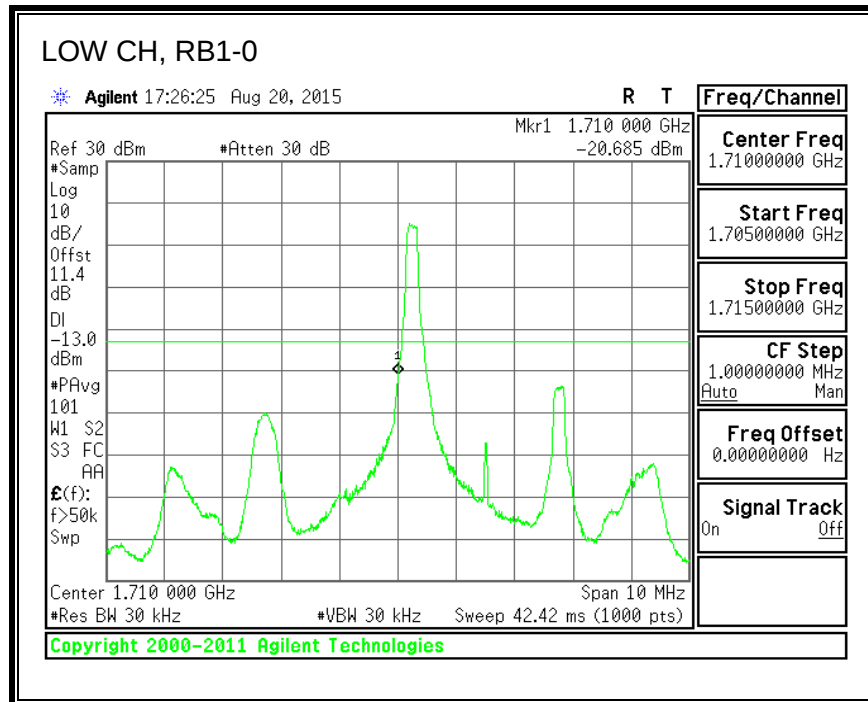


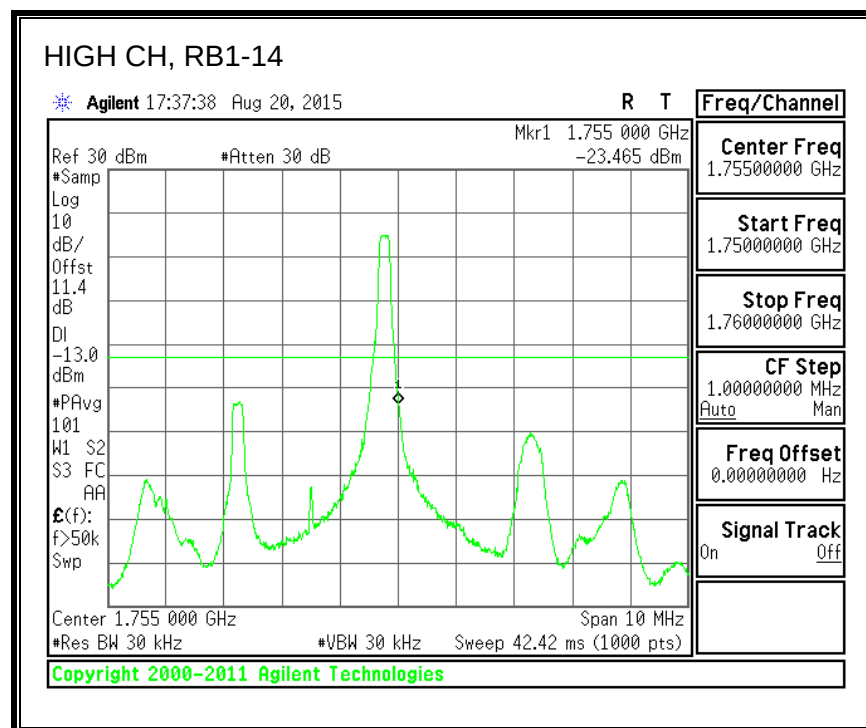
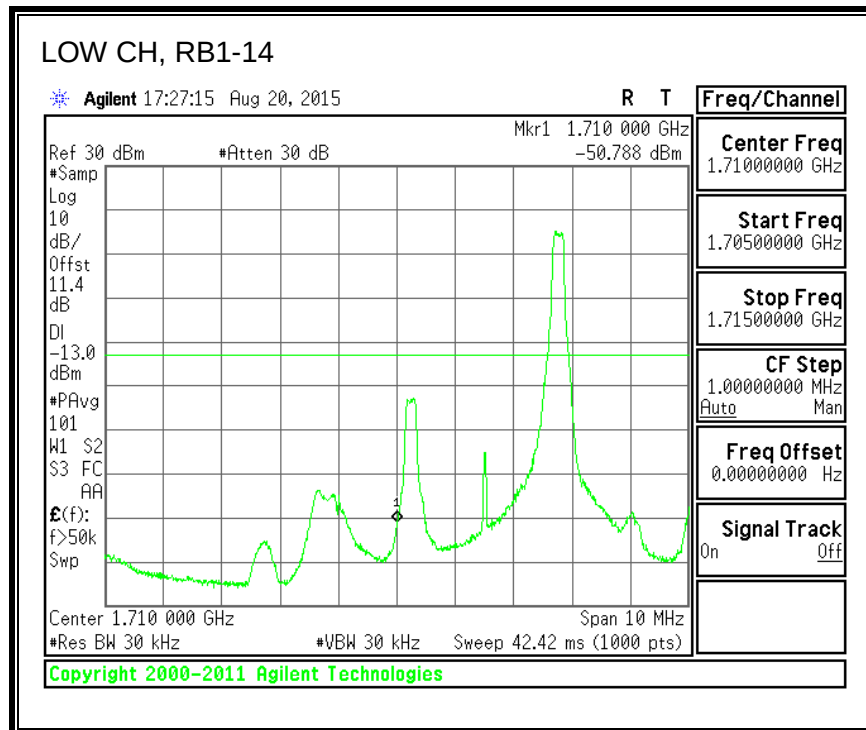


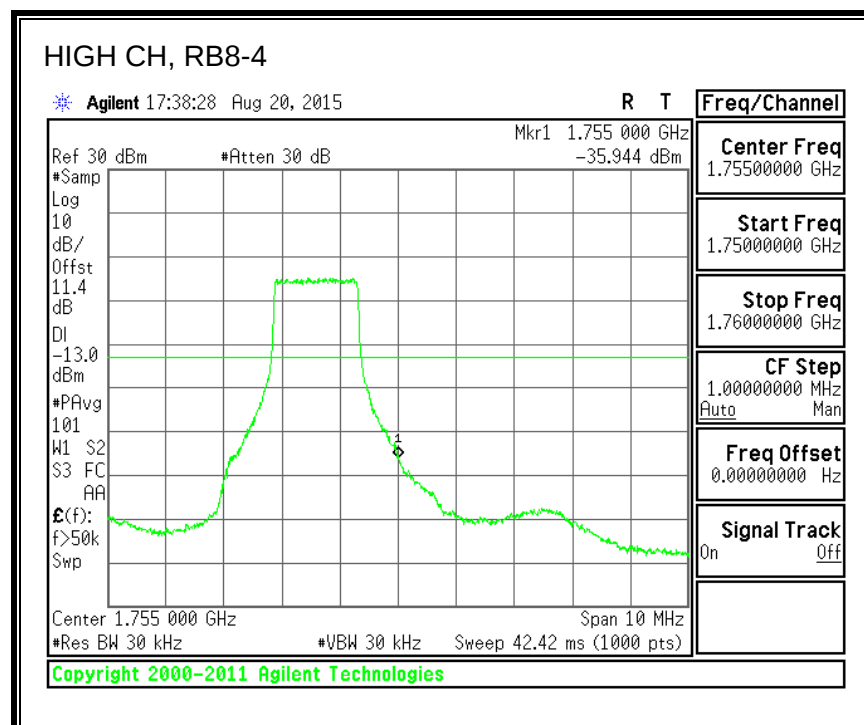
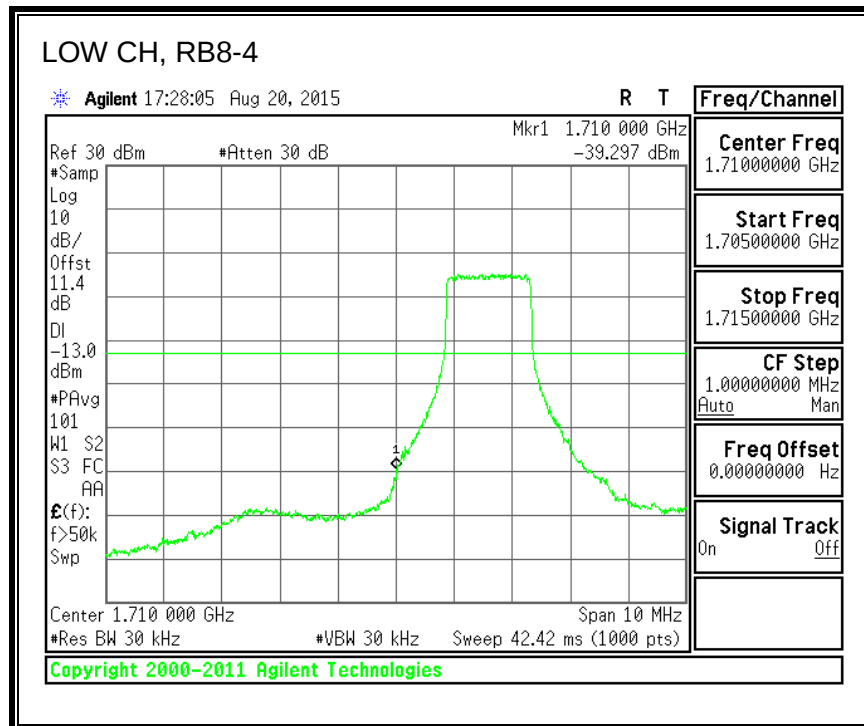


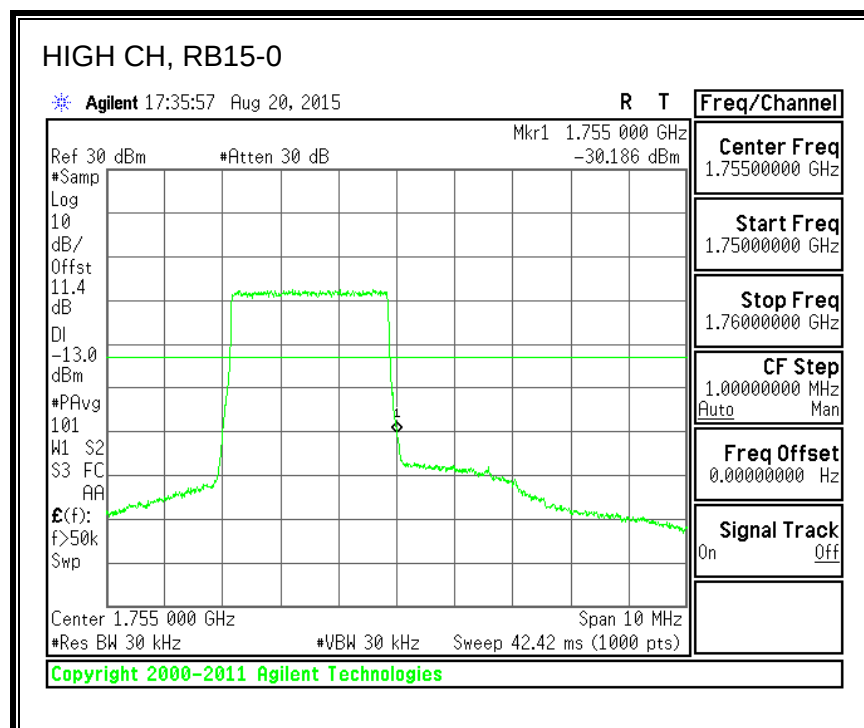
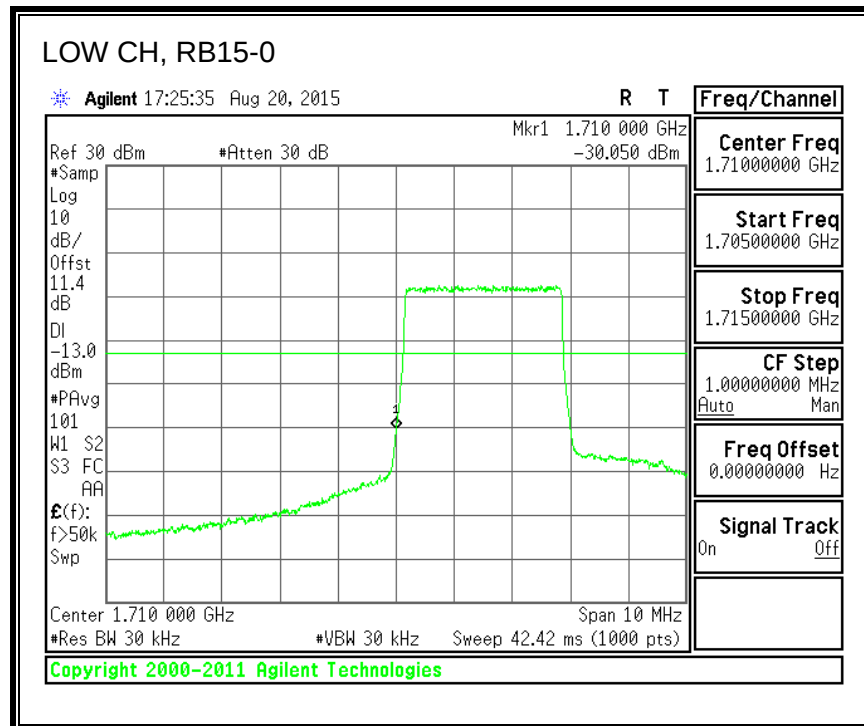


16QAM, (3.0 MHz BAND WIDTH)

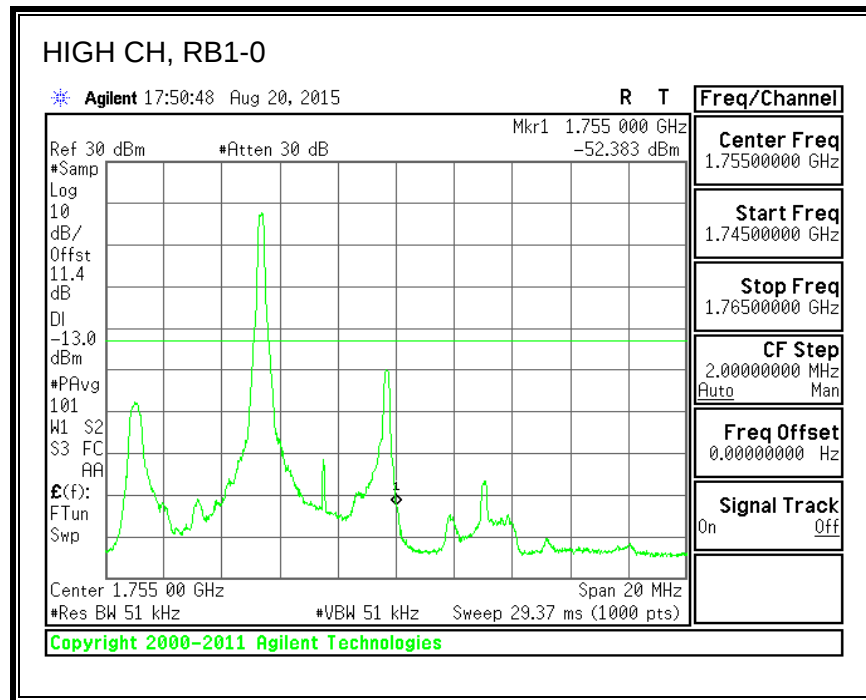
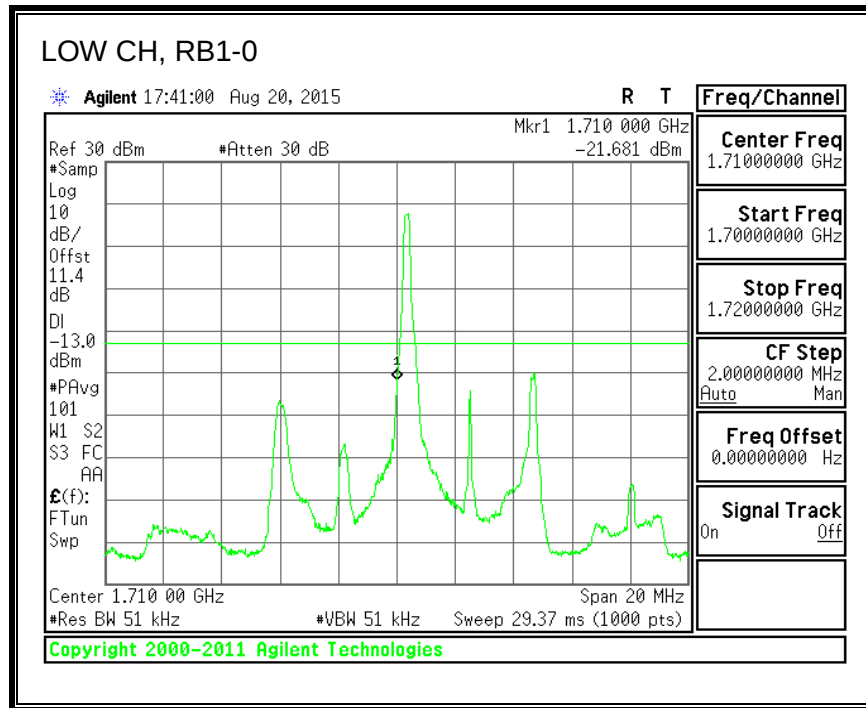


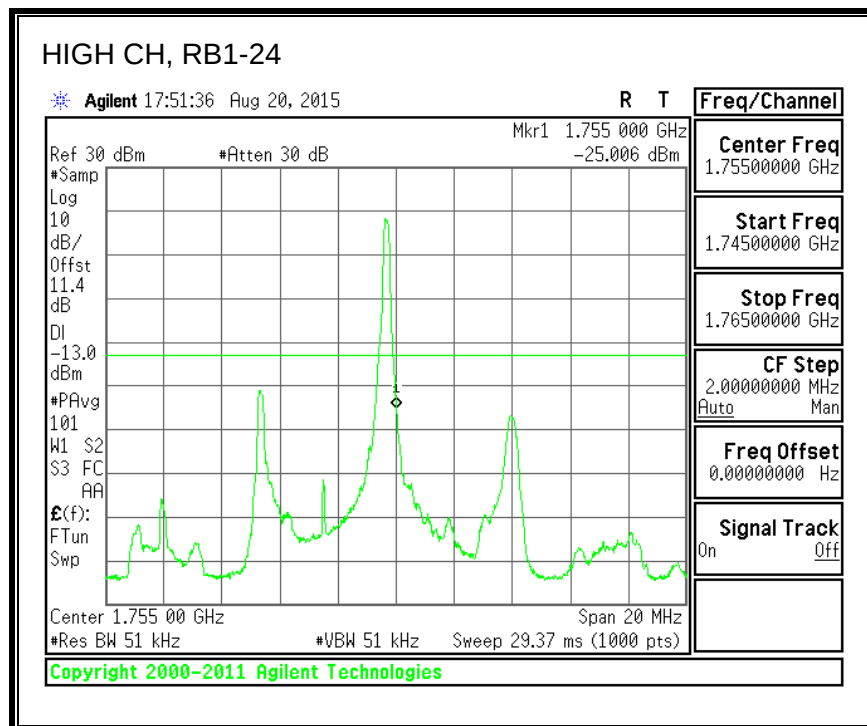
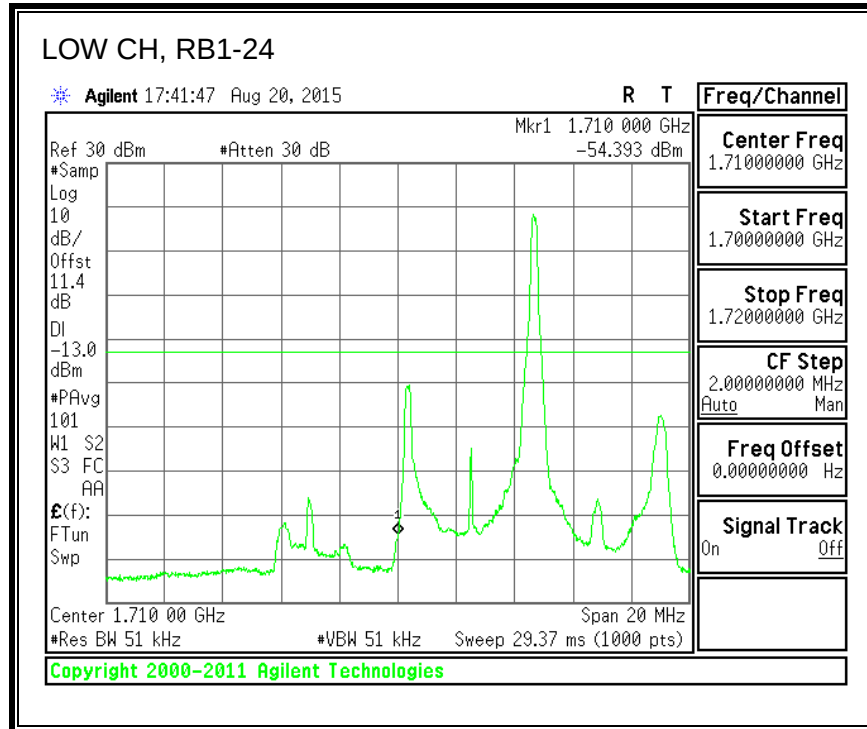


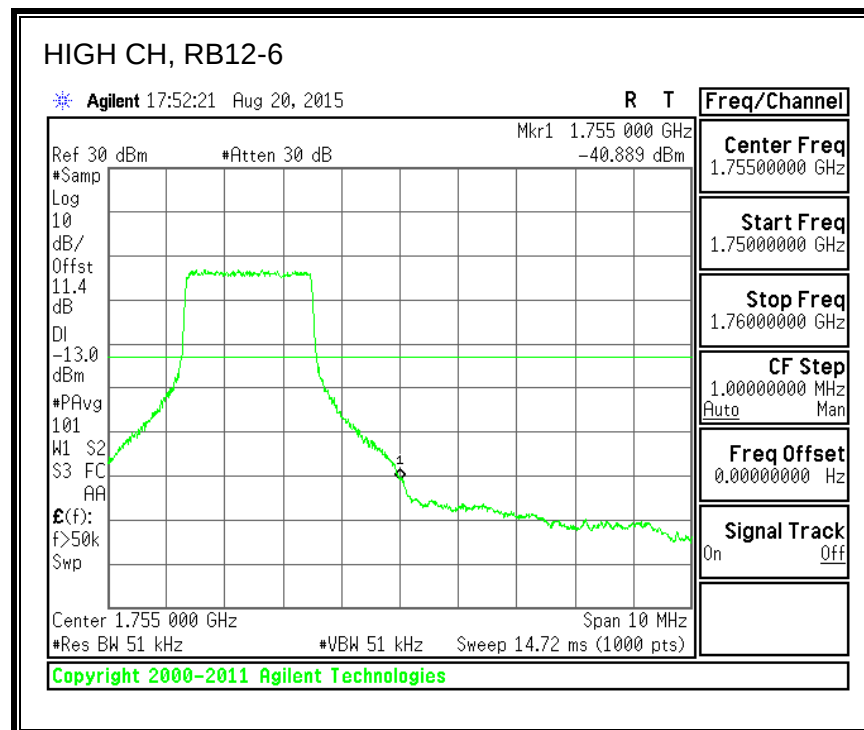
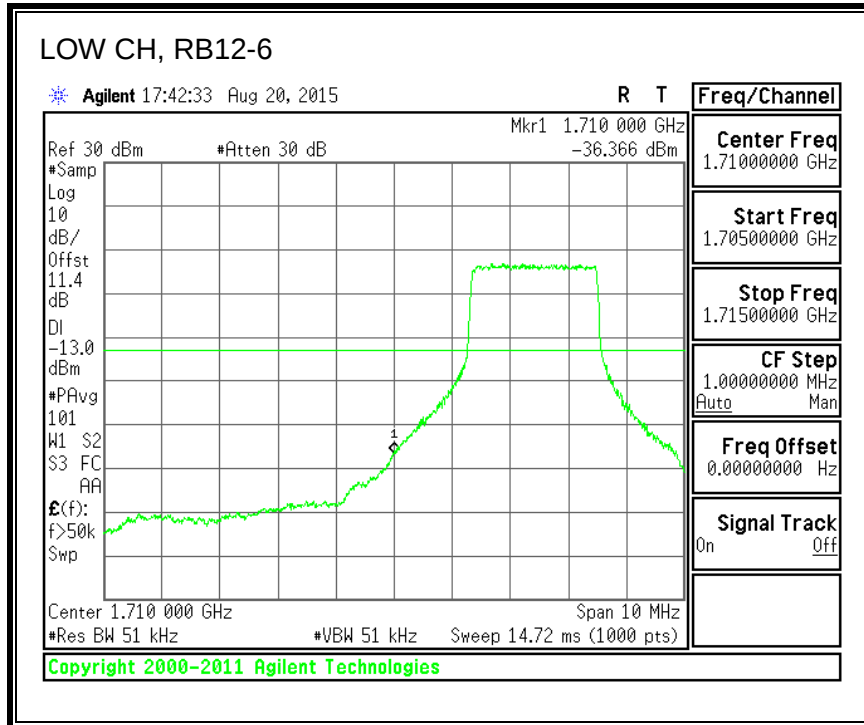


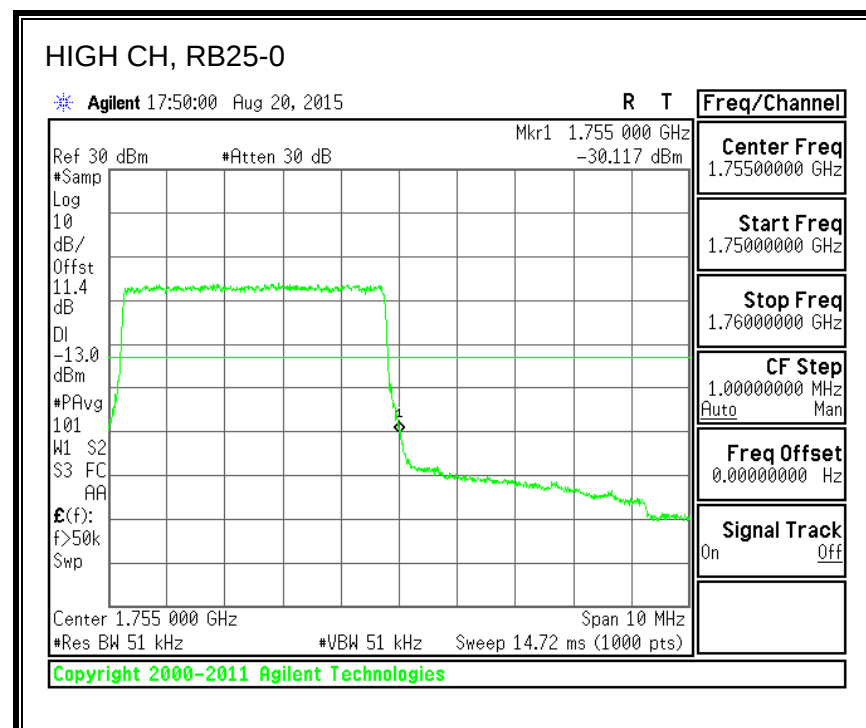
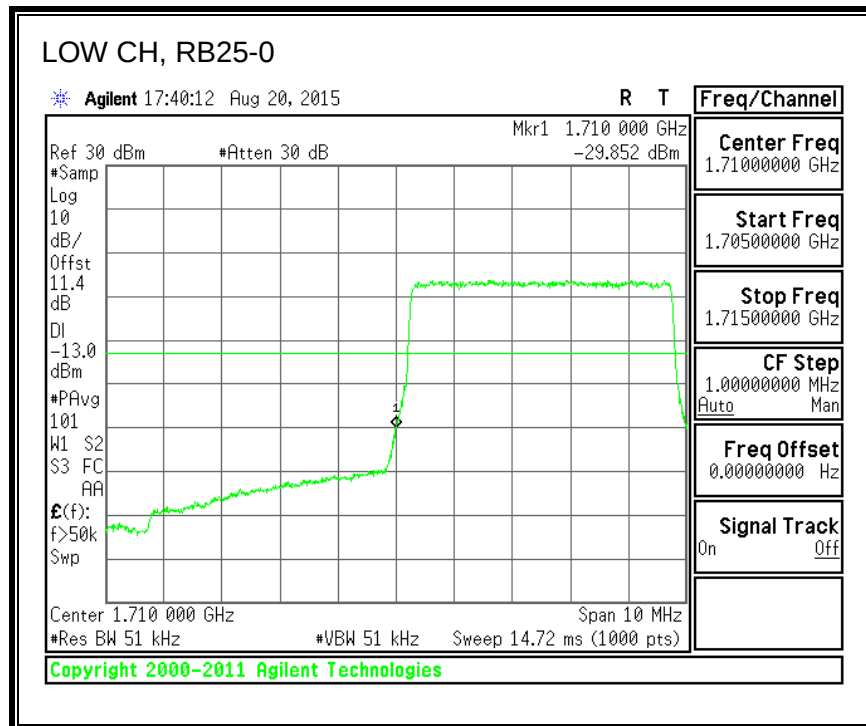


QPSK, (5.0 MHz BAND WIDTH)

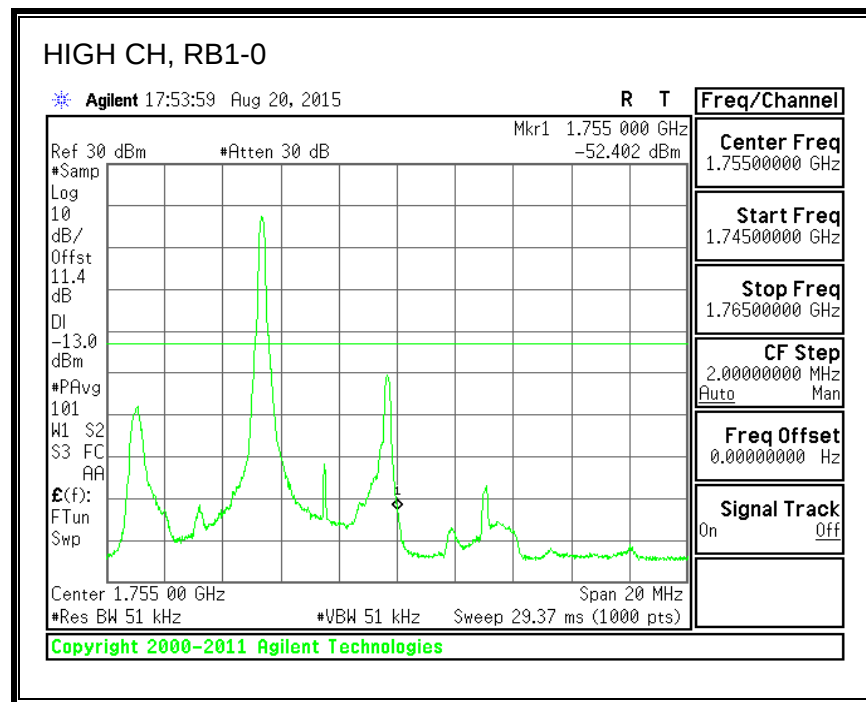
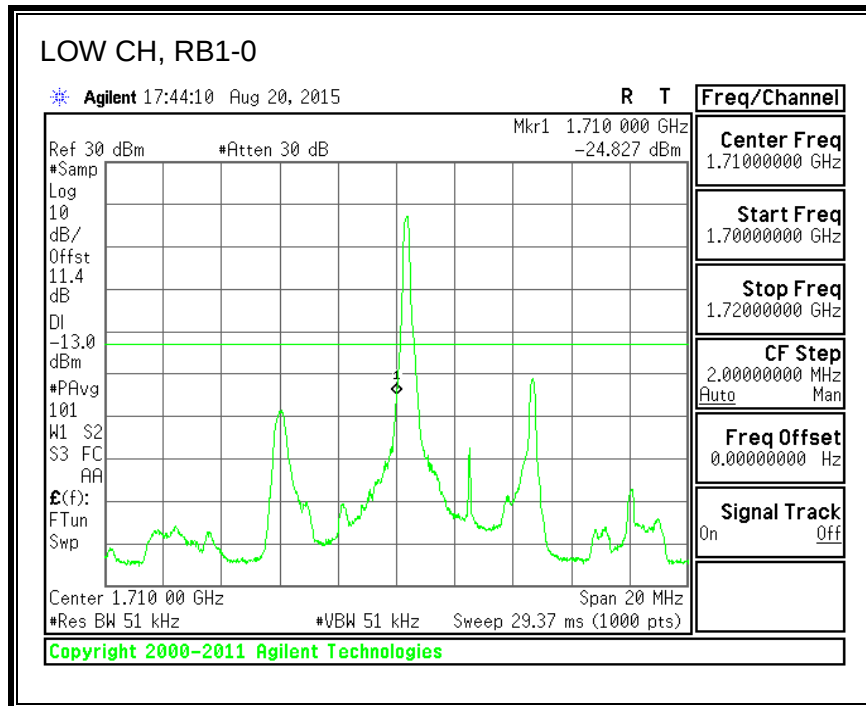


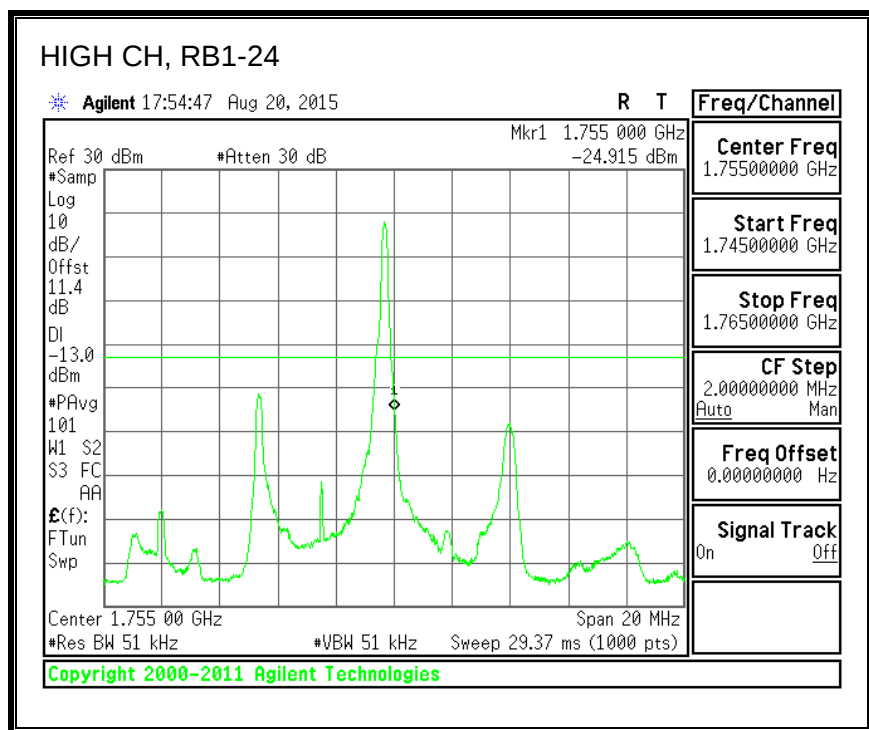
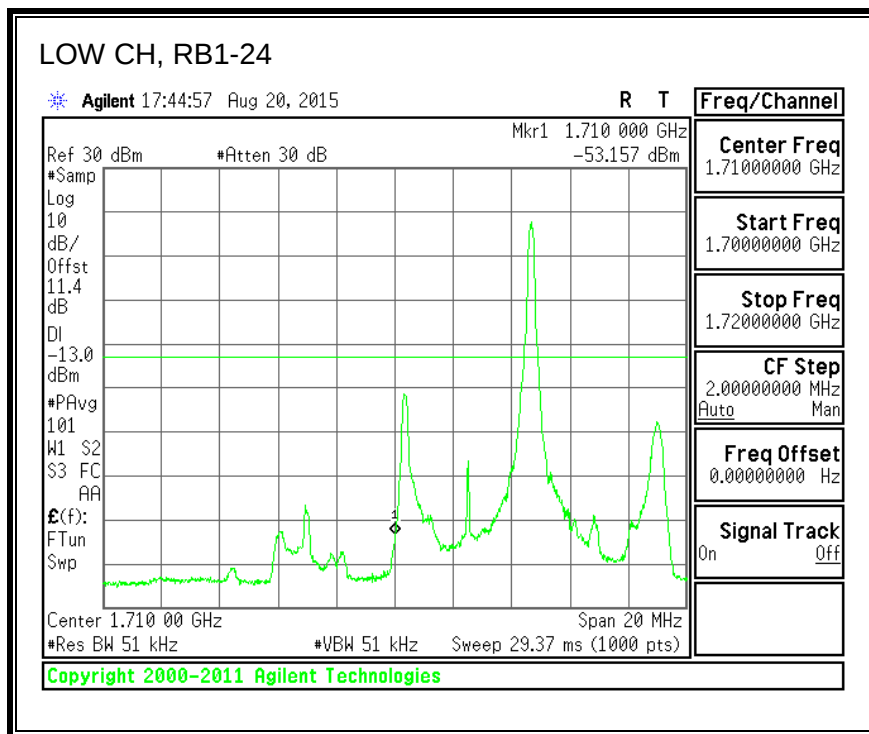


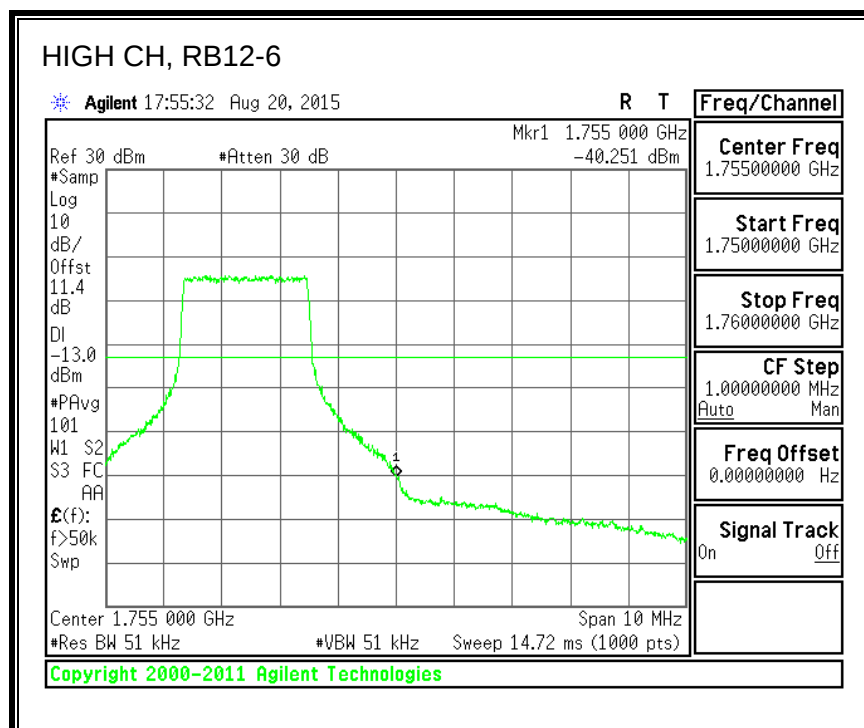
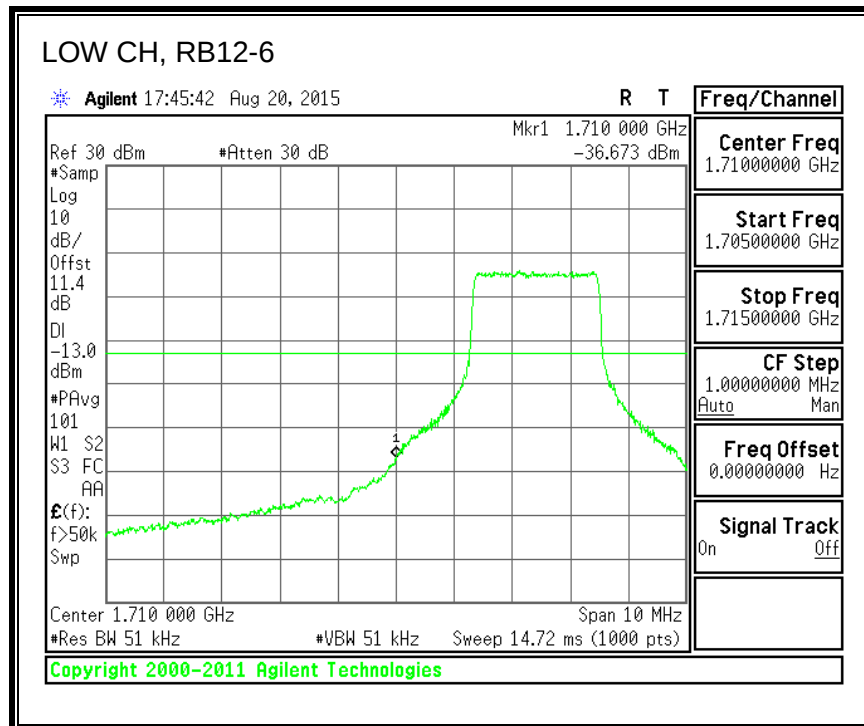




16QAM, (5.0 MHz BAND WIDTH)







LOW CH, RB25-0

Agilent 17:43:23 Aug 20, 2015

R T

Freq/Channel

Ref 30 dBm #Atten 30 dB Mkr1 1.710 000 GHz
-30.533 dBm

Center Freq
1.71000000 GHz

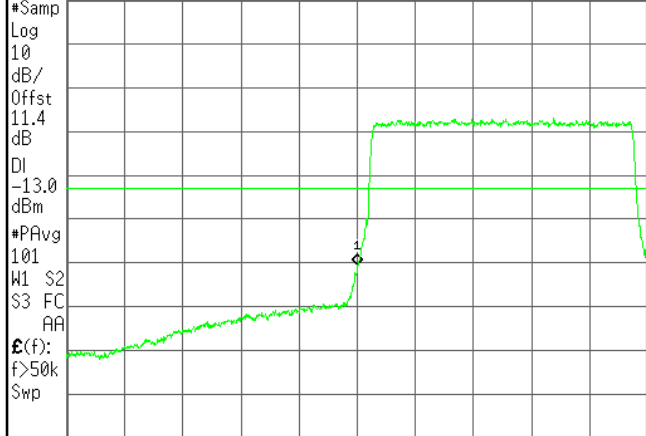
Start Freq
1.70500000 GHz

Stop Freq
1.71500000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



Center 1.710 000 GHz Span 10 MHz
#Res BW 51 kHz #VBW 51 kHz Sweep 14.72 ms (1000 pts)

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HIGH CH, RB25-0

Agilent 17:53:12 Aug 20, 2015

R T

Freq/Channel

Ref 30 dBm #Atten 30 dB Mkr1 1.755 000 GHz
-31.366 dBm

Center Freq
1.75500000 GHz

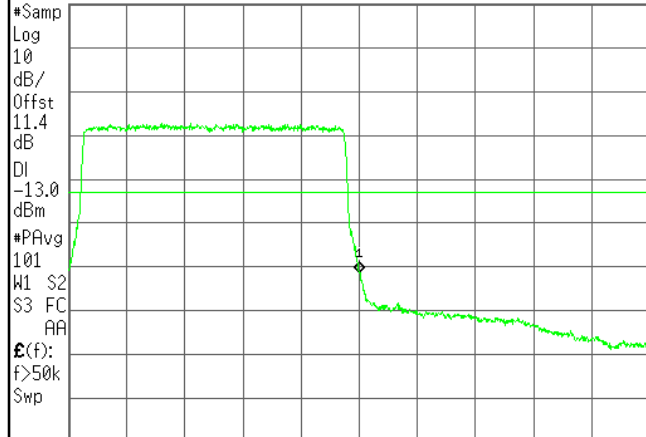
Start Freq
1.75000000 GHz

Stop Freq
1.76000000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

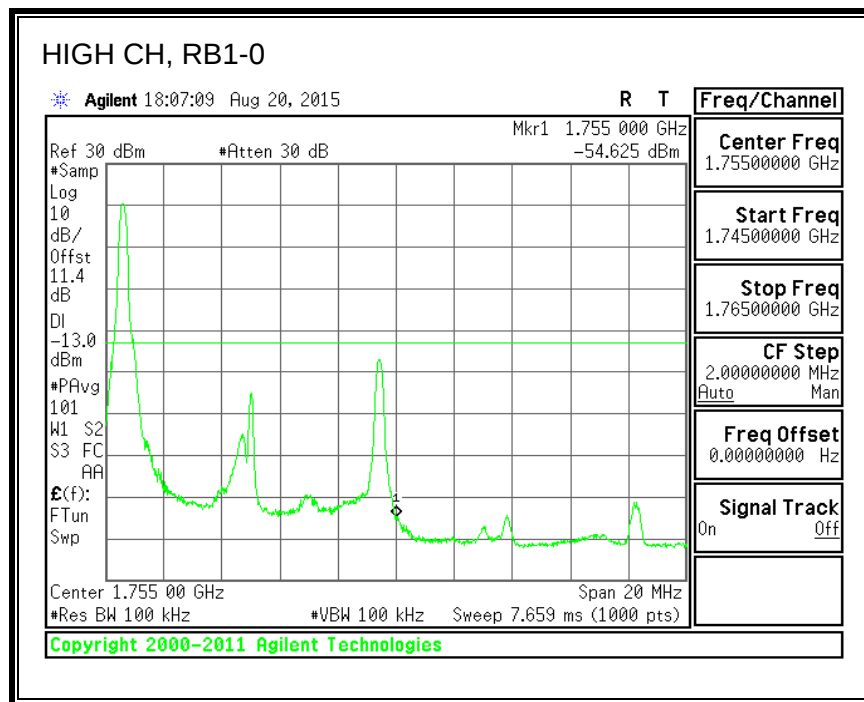
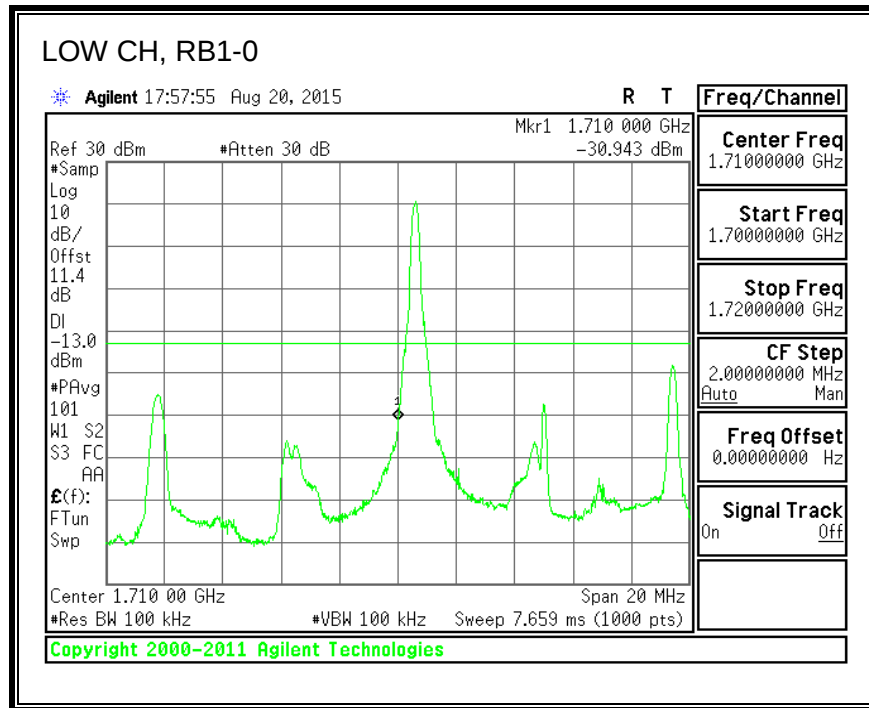
Signal Track
On Off

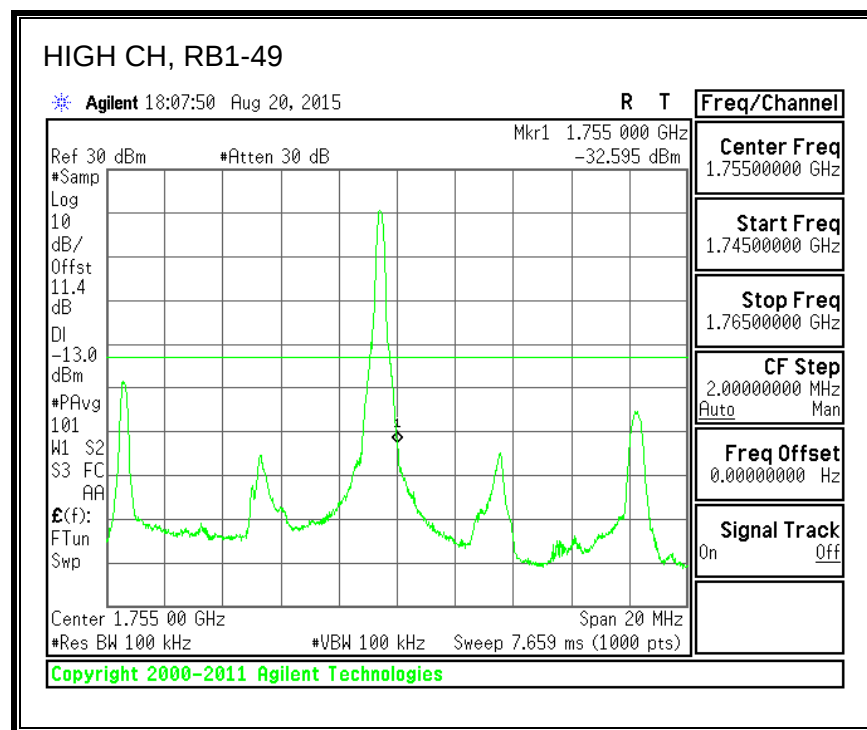
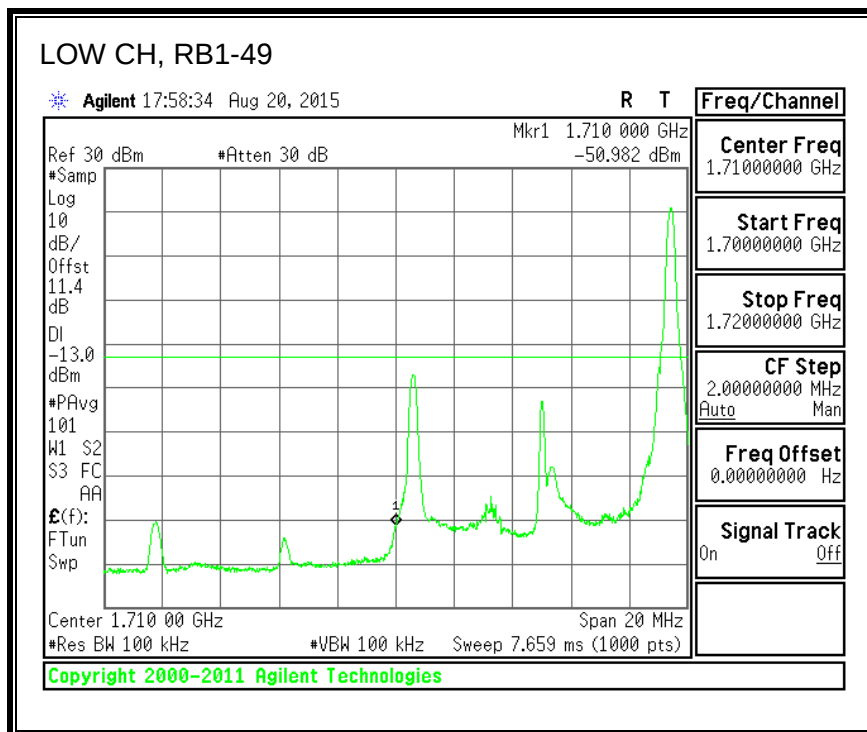


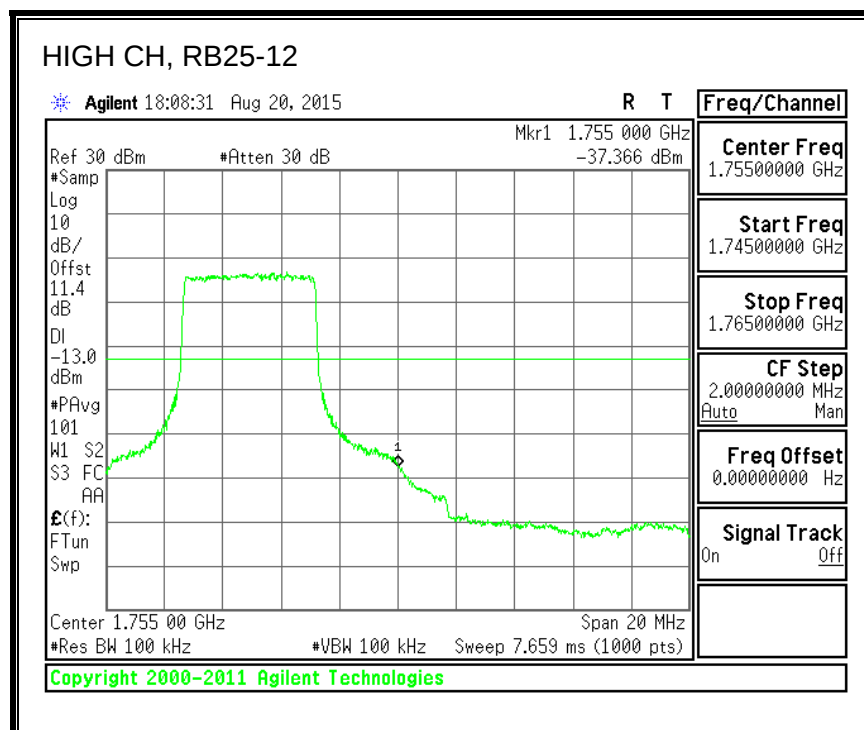
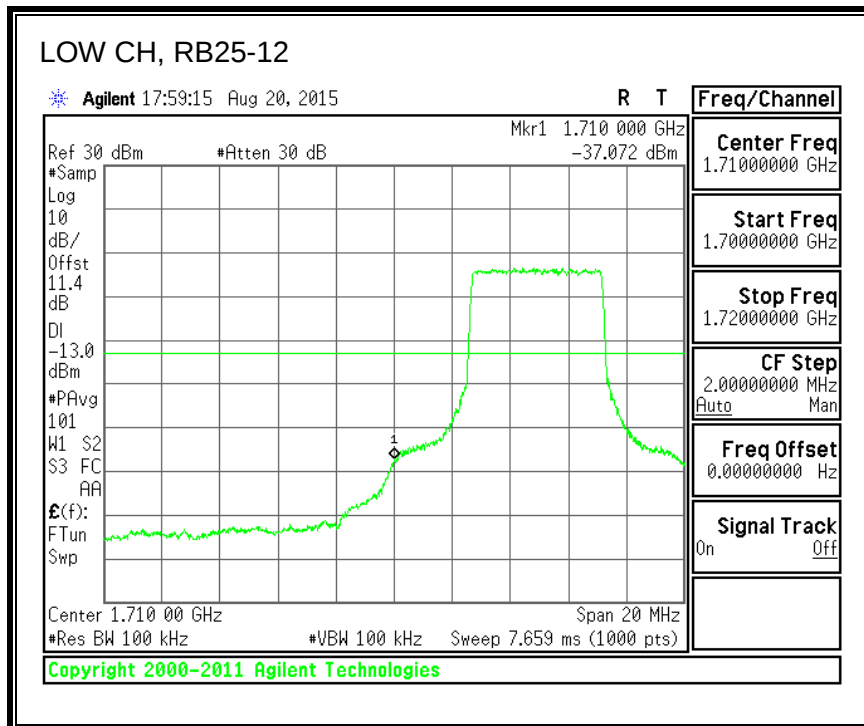
Center 1.755 000 GHz Span 10 MHz
#Res BW 51 kHz #VBW 51 kHz Sweep 14.72 ms (1000 pts)

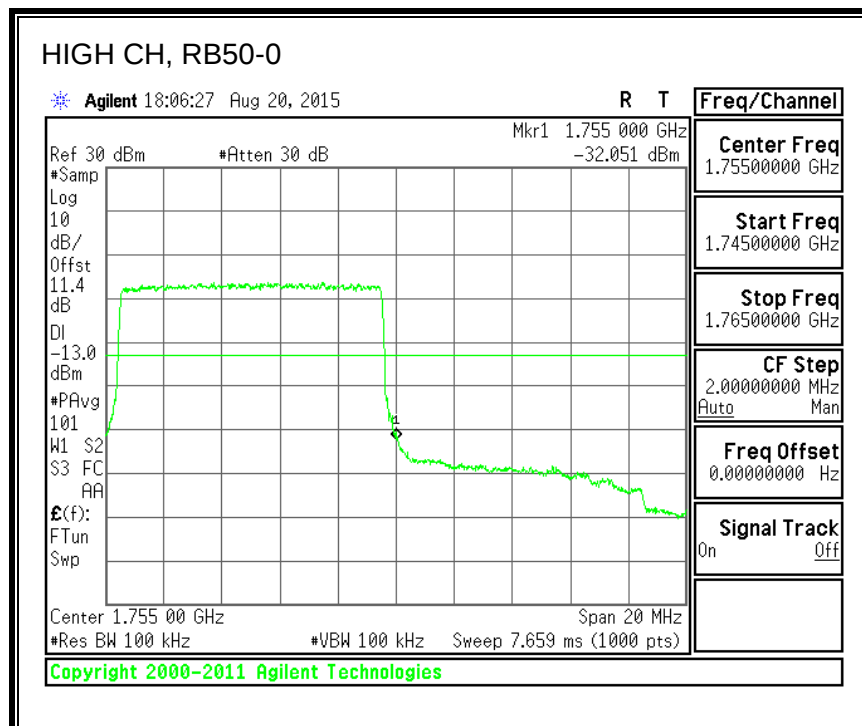
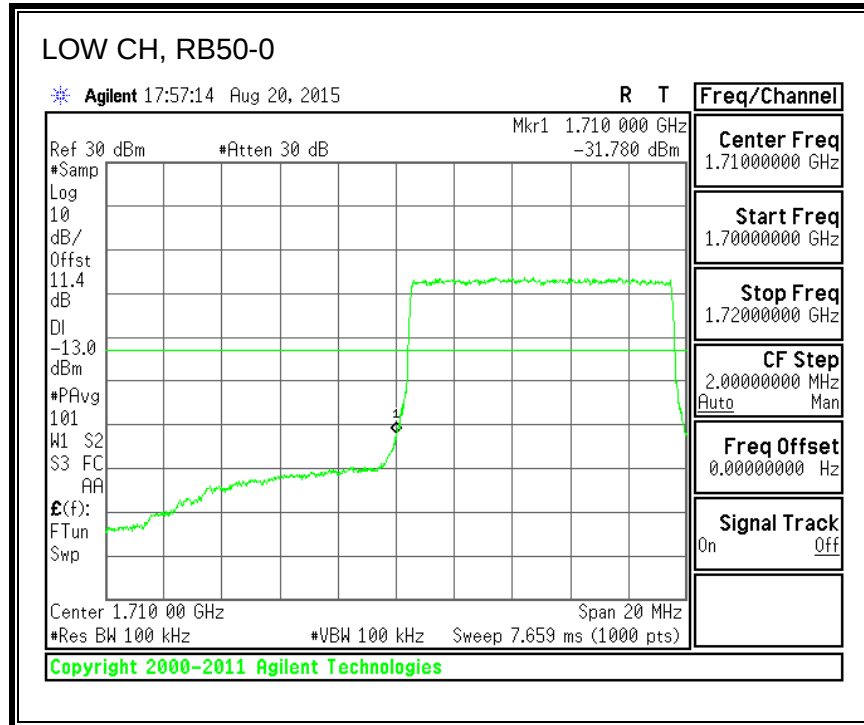
Copyright 2000-2011 Agilent Technologies

QPSK, (10.0 MHz BAND WIDTH)

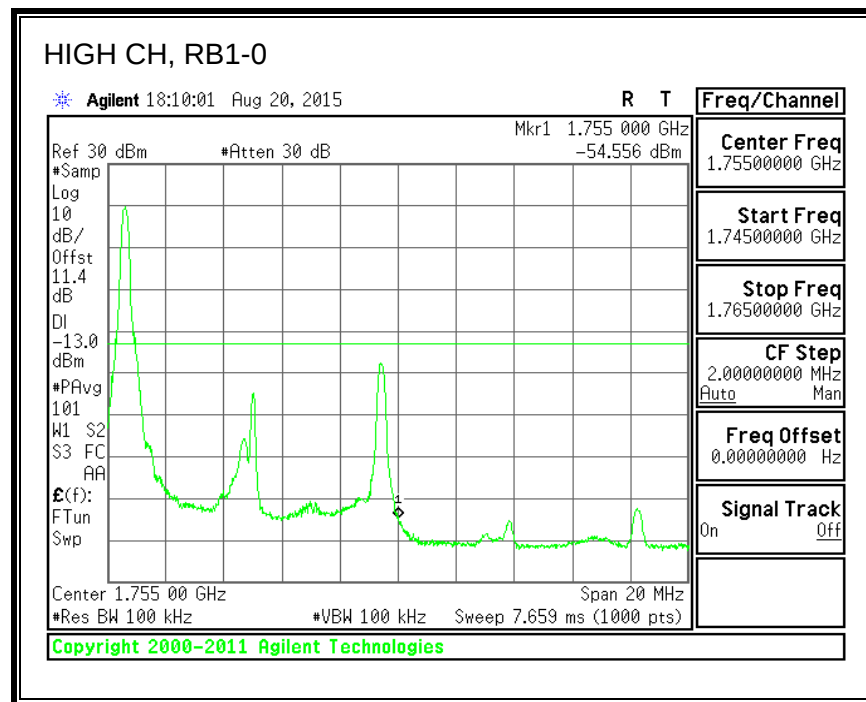
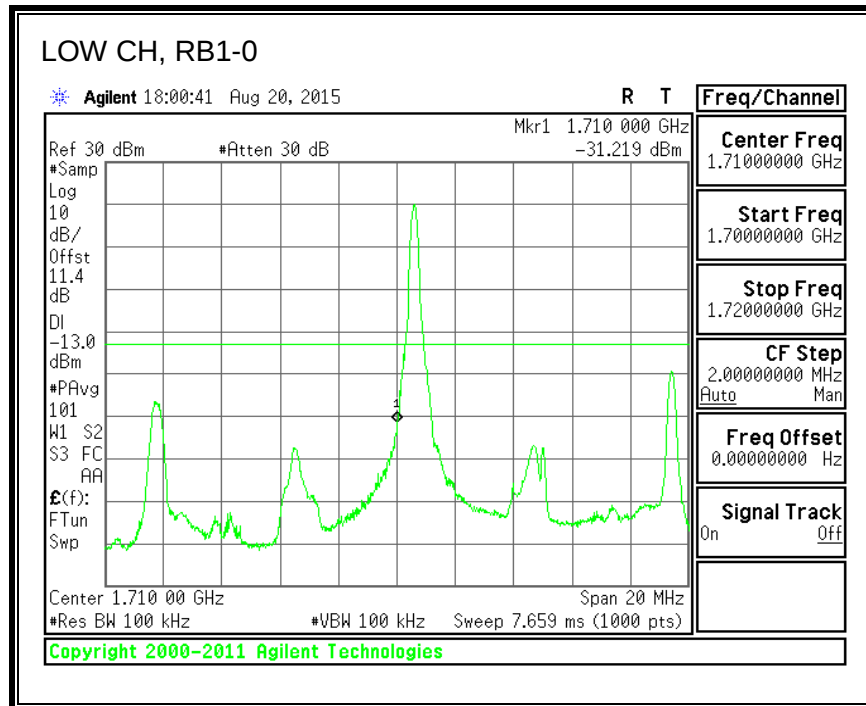


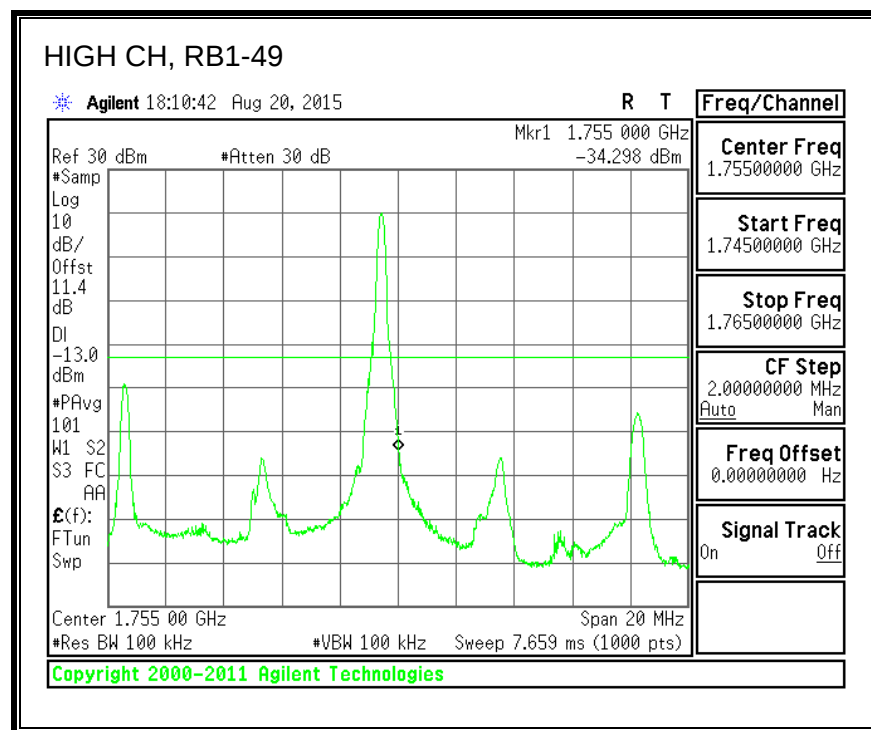
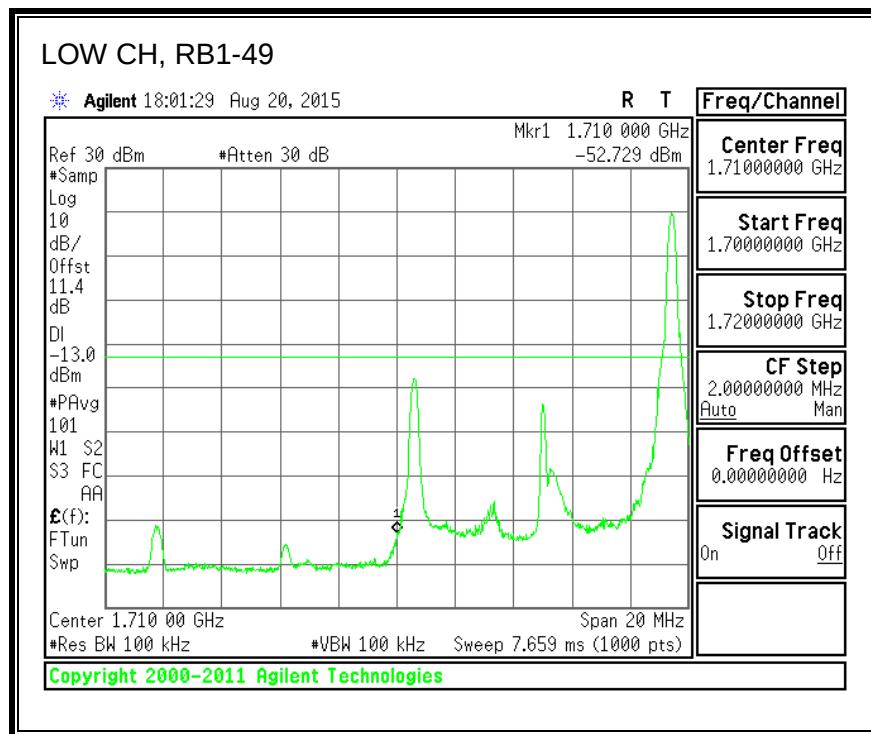


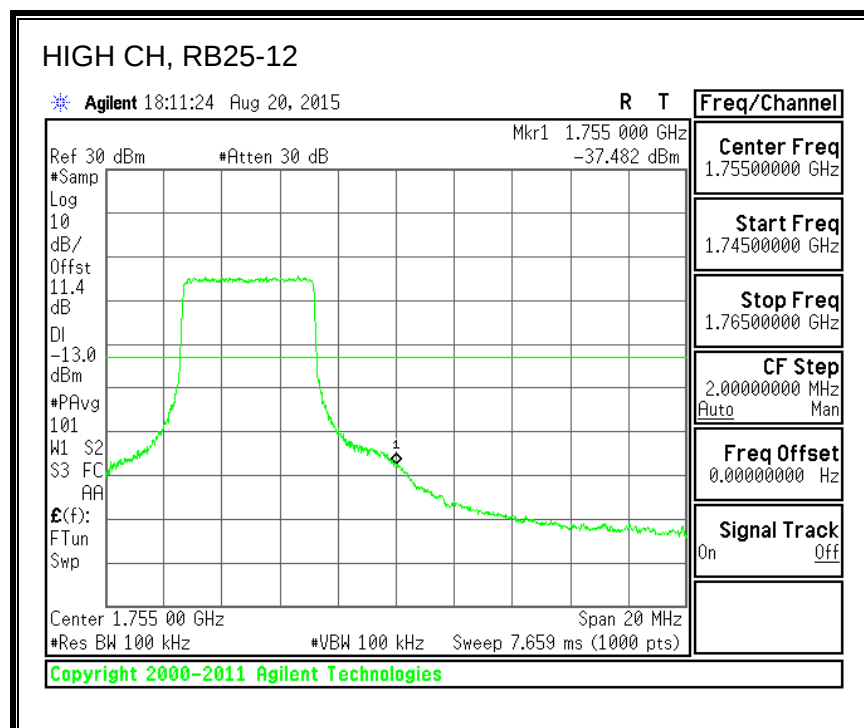
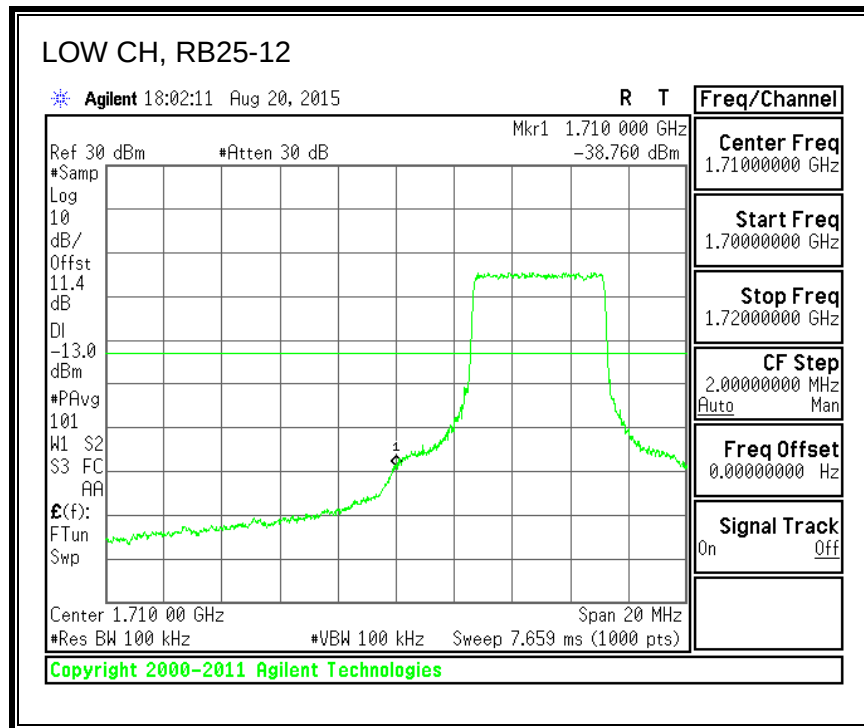


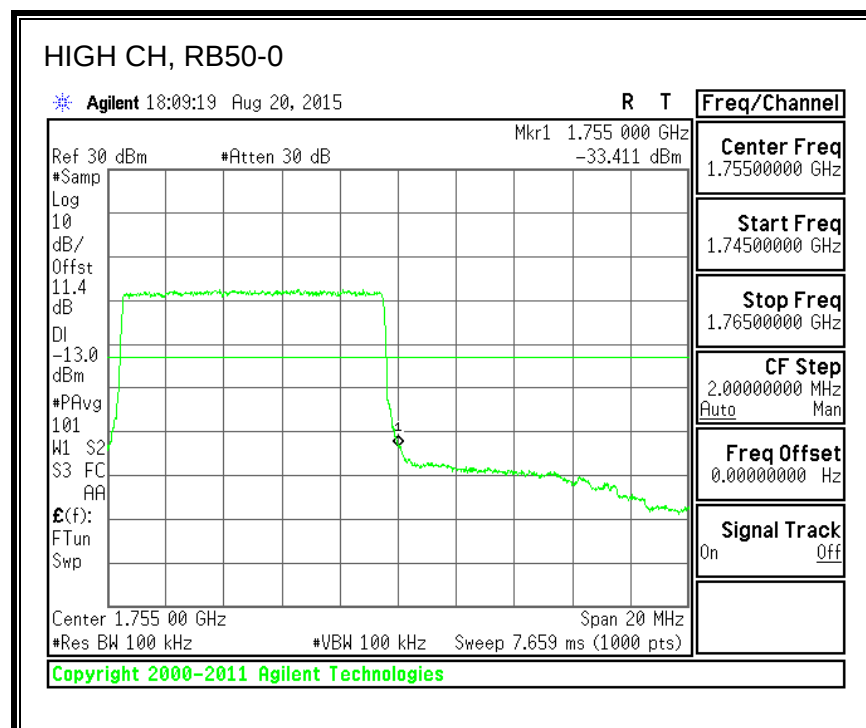
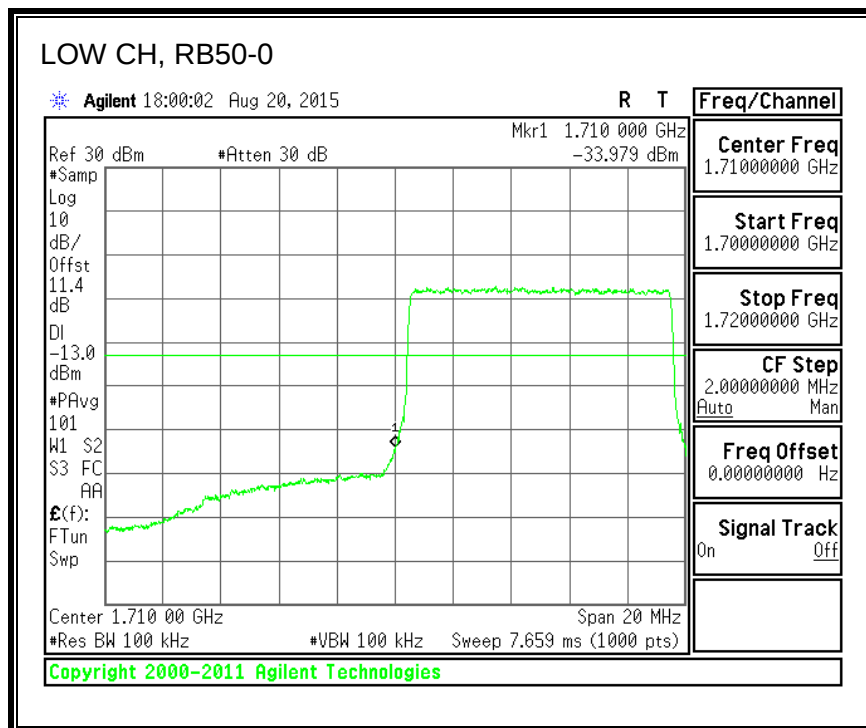


16QAM, (10.0 MHz BAND WIDTH)









QPSK, (15.0 MHz BAND WIDTH)

