



FCC CFR47 PART 22H, 24E, 27 AND 90S

CERTIFICATION TEST REPORT

FOR

CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL NUMBER: A1662

FCC ID: BCG-E2945A

REPORT NUMBER: 15U21634-E9V3

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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

MODEL: A1662

SERIAL NUMBER: C39QV003H2JM (CONDUCTED); C39QT003H2JR (RADIATED)

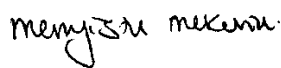
DATE TESTED: AUGUST 21, 2015 – JANUARY 13, 2016

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.

Approved & Released For
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MENGISTU MEKURIA
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

Tested By:



TINA CHU
LAB ENGINEER
UL VERIFICATION SERVICES INC.

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
<input type="checkbox"/> Chamber A	<input checked="" type="checkbox"/> Chamber D
<input type="checkbox"/> Chamber B	<input type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input checked="" type="checkbox"/> Chamber F
	<input checked="" type="checkbox"/> Chamber G
	<input type="checkbox"/> 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:

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

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 A1662 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	22.7	186.2	24.06	254.7
		16QAM	21.8	151.4	23.18	208.0
3		QPSK	22.6	182.0	24.07	255.3
		16QAM	21.9	154.9	23.05	201.8
5		QPSK	22.7	186.2	23.94	247.7
		16QAM	21.8	151.4	23.04	201.4
10		QPSK	22.7	186.2	24.04	253.5
		16QAM	21.8	151.4	22.91	195.4
15		QPSK	22.7	186.2	24.06	254.7
		16QAM	21.8	151.4	23.04	201.4
20	QPSK	22.7	186.2	23.94	247.7	
	16QAM	21.8	151.4	23.18	208.0	

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	23.0	199.5	24.19	262.4
		16QAM	22.1	162.2	23.14	206.1
3		QPSK	23.0	199.5	24.13	258.8
		16QAM	22.3	169.8	23.10	204.2
5		QPSK	23.0	199.5	24.18	261.8
		16QAM	22.2	166.0	23.13	205.6
10		QPSK	23.0	199.5	24.11	257.6
		16QAM	22.2	166.0	23.13	205.6
15		QPSK	23.0	199.5	24.07	255.3
		16QAM	22.0	158.5	23.12	205.1
20		QPSK	23.0	199.5	24.17	261.2
		16QAM	22.1	162.2	23.07	202.8

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	20.27	106.41
		16QAM	23.1	204.2	19.50	89.13
3		QPSK	23.9	245.5	20.70	117.49
		16QAM	23.2	208.9	19.86	96.83
5		QPSK	24.0	251.2	20.71	117.76
		16QAM	23.0	199.5	19.78	95.06
10		QPSK	23.9	245.5	20.37	108.89
		16QAM	23.1	204.2	19.40	87.10

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	18.19	65.92
		16QAM	23.1	204.2	17.45	55.59
3		QPSK	23.9	245.5	17.69	58.75
		16QAM	23.2	208.9	16.95	49.55
5		QPSK	23.9	245.5	17.74	59.43
		16QAM	23.0	199.5	16.89	48.87
10		QPSK	23.9	245.5	17.50	56.23
		16QAM	22.9	195.0	16.70	46.77

OUTPUT POWER FOR LTE BAND 13

Part 27 / RSS 130 LTE Band 13						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	777 - 787	QPSK	24.0	251.2	18.40	69.18
		16QAM	22.7	186.2	17.57	57.15
10		QPSK	24.0	251.2	18.26	66.99
		16QAM	23.2	208.9	17.45	55.59

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	23.9	245.5	18.10	64.6
		16QAM	22.9	195.0	17.13	51.6
10		QPSK	23.8	239.9	18.15	65.3
		16QAM	23.0	199.5	17.25	53.1

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	25.02	317.7
		16QAM	21.1	128.8	24.12	258.2
3		QPSK	22.0	158.5	25.17	328.9
		16QAM	21.2	131.8	24.36	272.9
5		QPSK	22.0	158.5	25.01	317.0
		16QAM	21.1	128.8	24.11	257.6
10		QPSK	22.0	158.5	25.26	335.7
		16QAM	21.1	128.8	24.27	267.3
15		QPSK	22.0	158.5	25.31	339.6
		16QAM	21.0	125.9	24.41	276.1
20	QPSK	22.0	158.5	25.61	363.9	
	16QAM	21.1	128.8	24.31	269.8	

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	21.96	157.0	24.11	257.6
		16QAM	23.2	208.9	20.88	122.5	23.03	200.9
3		QPSK	23.9	245.5	22.13	163.3	24.28	267.9
		16QAM	23.2	208.9	21.32	135.5	23.47	222.3
5		QPSK	24.0	251.2	21.70	147.9	23.85	242.7
		16QAM	23.1	204.2	20.55	113.5	22.70	186.2
10		QPSK	23.9	245.5	21.36	136.8	23.51	224.4
		16QAM	23.1	204.2	20.56	113.8	22.71	186.6

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	21.5	141.3	21.58	143.9
		16QAM	20.6	114.8	20.69	117.2
3		QPSK	21.4	138.0	21.36	136.8
		16QAM	20.6	114.8	20.42	110.2
5		QPSK	21.4	138.0	21.40	138.0
		16QAM	20.5	112.2	20.62	115.3
10		QPSK	21.3	134.9	21.64	145.9
		16QAM	20.5	112.2	20.66	116.4
15		QPSK	21.4	138.0	21.78	150.7
		16QAM	20.3	107.2	20.85	121.6
20	QPSK	21.5	141.3	21.68	147.2	
	16QAM	20.6	114.8	20.63	115.6	

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	18.21	66.2
		16QAM	22.4	173.8	17.11	51.4
3		QPSK	23.4	218.8	18.16	65.5
		16QAM	22.5	177.8	17.02	50.4
5		QPSK	23.3	213.8	18.12	64.9
		16QAM	22.4	173.8	16.93	49.3
10		QPSK	23.2	208.9	18.14	65.2
		16QAM	22.4	173.8	17.11	51.4
15		QPSK	23.4	218.8	18.03	63.5
		16QAM	22.3	169.8	17.02	50.4
20	QPSK	23.4	218.8	18.12	64.9	
	16QAM	22.5	177.8	16.93	49.3	

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	23.7	234.4	15.71	37.2
		16QAM	22.9	195.0	14.91	31.0
3		QPSK	23.6	229.1	15.75	37.6
		16QAM	22.9	195.0	15.01	31.7
5		QPSK	23.7	234.4	16.01	39.9
		16QAM	22.9	195.0	14.95	31.3
10		QPSK	23.6	229.1	15.99	39.7
		16QAM	22.9	195.0	15.00	31.6

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	15.19	33.04
		16QAM	22.9	195.0	14.40	27.54
3		QPSK	23.7	234.4	15.31	33.96
		16QAM	22.9	195.0	14.28	26.79
5		QPSK	23.7	234.4	15.08	32.21
		16QAM	22.8	190.5	14.04	25.35
10		QPSK	23.6	229.1	15.04	31.92
		16QAM	22.9	195.0	14.13	25.88

OUTPUT POWER FOR LTE BAND 13

Part 27 /RSS 130 LTE Band 13						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	777 - 787	QPSK	23.7	234.4	15.70	37.15
		16QAM	22.8	190.5	14.88	30.76
10		QPSK	23.7	234.4	15.65	36.73
		16QAM	22.9	195.0	14.82	30.34

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	15.03	31.8
		16QAM	22.8	190.5	14.20	26.3
10		QPSK	23.6	229.1	14.76	29.9
		16QAM	22.8	190.5	13.71	23.5

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	21.0	125.9	20.03	100.7
		16QAM	20.1	102.3	19.17	82.6
3		QPSK	20.9	123.0	20.07	101.6
		16QAM	20.1	102.3	19.16	82.4
5		QPSK	20.9	123.0	19.95	98.9
		16QAM	20.0	100.0	19.20	83.2
10		QPSK	20.9	123.0	19.96	99.1
		16QAM	20.1	102.3	19.07	80.7
15		QPSK	20.9	123.0	20.06	101.4
		16QAM	19.9	97.7	19.19	83.0
20		QPSK	21.0	125.9	20.02	100.5
		16QAM	20.0	100.0	19.18	82.8

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	23.7	234.4	16.32	42.9	18.47	70.3
		16QAM	22.7	186.2	15.49	35.4	17.64	58.1
3		QPSK	23.7	234.4	16.38	43.5	18.53	71.3
		16QAM	22.9	195.0	15.54	35.8	17.69	58.7
5		QPSK	23.7	234.4	16.31	42.8	18.46	70.1
		16QAM	22.8	190.5	15.30	33.9	17.45	55.6
10		QPSK	23.6	229.1	16.31	42.8	18.46	70.1
		16QAM	22.8	190.5	15.39	34.6	17.54	56.8

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	0.02	-2.39
LTE Band 4, 1710 – 1755 MHz	-0.17	-4.15
LTE Band 5, 824 – 849 MHz	-1.01	-5.14
LTE Band 12, 699 – 716 MHz	-3.87	-6.15
LTE Band 13, 777 – 787 MHz	-3.23	-6.82
LTE Band 17, 704 – 716 MHz	-3.87	-6.15
LTE Band 25, 1850 – 1915 MHz	0.02	-2.39
LTE Band 26, 814 – 824 MHz	-2.04	-6.10

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 12, Band 13, Band 17, Band 25, Band 26.

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 and PCS bands without AC/DC adapter and headset;

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

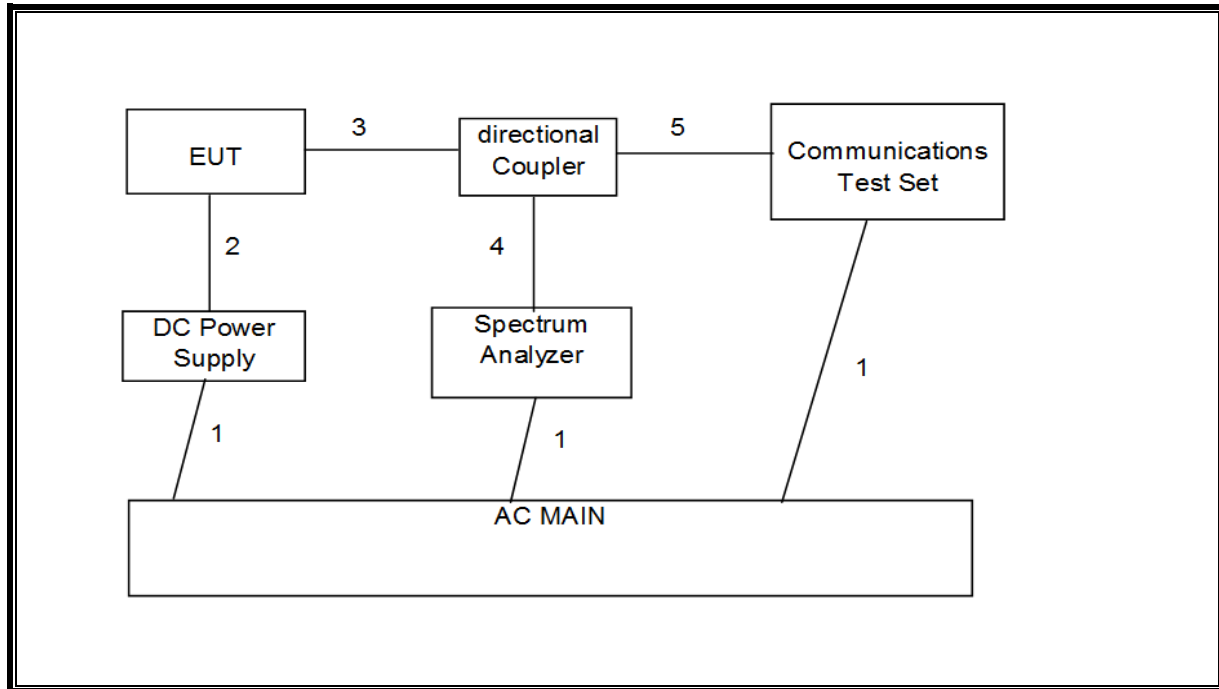
I/O CABLES (RF RADIATED TEST)

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

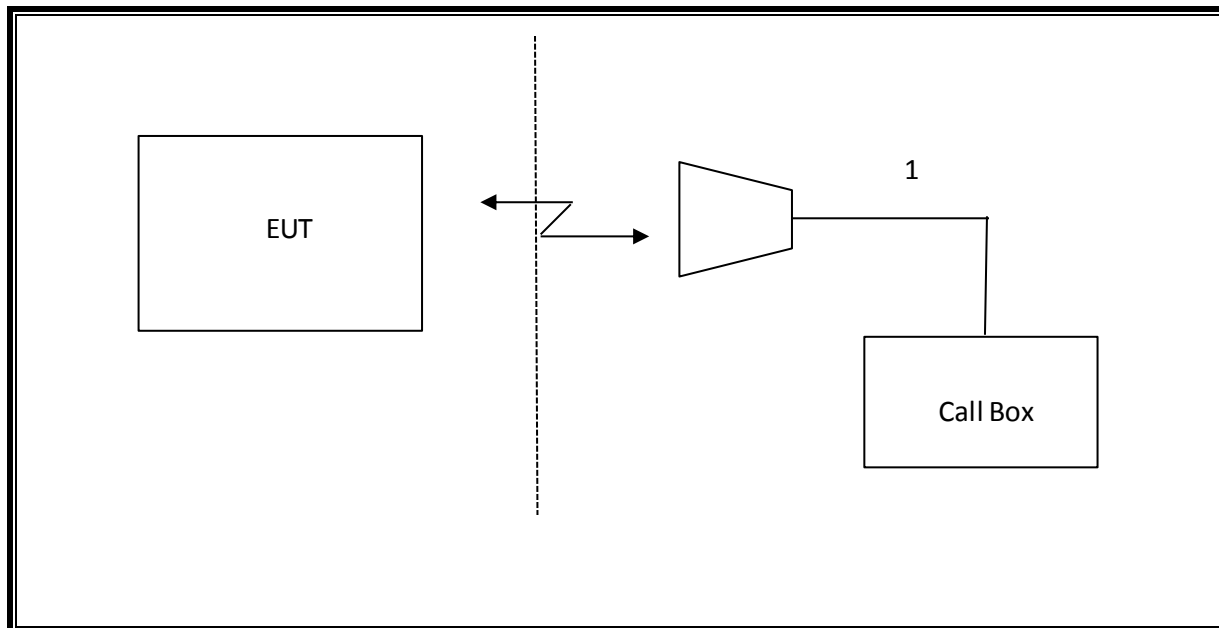
TEST SETUP

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
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T905	05/26/16
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T344	02/10/16
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T407	03/05/16
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T740	01/26/16
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T286	05/07/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T260	07/10/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T340	11/16/16
Antenna, Horn 1-18GHz	ETS Lindgren	3117	T120	03/26/16
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T407	03/05/16
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T742	01/31/16
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T173	06/09/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T341	10/15/16
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
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	T428	01/26/16

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	13	10	Table 6.2.4-2	Table 6.2.4-2
	6.6.3.3.2				
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	22.6	27.4
				1	2	22.5	27.2
				1	5	22.6	27.4
				3	0	22.7	27.6
				3	1	22.6	27.6
				3	2	22.6	27.6
			16QAM	6	0	21.7	27.2
				1	0	21.7	27.6
				1	2	21.6	27.4
				1	5	21.6	27.6
				3	0	21.7	27.7
				3	1	21.7	27.6
				3	2	21.7	27.6
				6	0	20.8	27.2
1.4	18900	1880.0	QPSK	1	0	22.6	26.4
				1	2	22.5	26.3
				1	5	22.6	26.4
				3	0	22.6	26.7
				3	1	22.6	26.6
				3	2	22.6	26.6
			16QAM	6	0	21.6	26.8
				1	0	21.7	26.4
				1	2	21.7	26.4
				1	5	21.7	26.4
				3	0	21.7	26.5
				3	1	21.7	26.5
				3	2	21.7	26.6
				6	0	20.6	26.6
1.4	19193	1909.3	QPSK	1	0	22.7	26.8
				1	2	22.6	26.7
				1	5	22.6	26.7
				3	0	22.7	27.0
				3	1	22.7	26.9
				3	2	22.7	26.9
			16QAM	6	0	21.7	27.1
				1	0	21.8	26.8
				1	2	21.8	26.7
				1	5	21.8	26.7
				3	0	21.8	26.9
				3	1	21.7	27.0
				3	2	21.7	26.9
				6	0	20.7	26.9

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	22.6	27.3
				1	7	22.5	27.2
				1	14	22.6	27.4
				8	0	21.7	27.0
				8	4	21.7	26.9
				8	7	21.7	27.0
			16QAM	15	0	21.7	27.2
				1	0	21.8	27.4
				1	7	21.8	27.3
				1	14	21.8	27.4
				8	0	20.8	26.8
				8	4	20.8	26.8
				8	7	20.7	26.8
				15	0	20.7	27.4
				3.0	18900	1880.0	QPSK
1	7	22.5	26.3				
1	14	22.5	26.5				
8	0	21.6	26.5				
8	4	21.6	26.5				
8	7	21.6	26.6				
16QAM	15	0	21.6				26.8
	1	0	21.7				26.3
	1	7	21.7				26.3
	1	14	21.8				26.6
	8	0	20.7				26.4
	8	4	20.7				26.4
	8	7	20.7				26.5
	15	0	20.6				26.9
	3.0	19185	1908.5				QPSK
1				7	22.6	26.7	
1				14	22.6	26.7	
8				0	21.7	26.8	
8				4	21.7	26.8	
8				7	21.6	26.8	
16QAM				15	0	21.7	26.9
				1	0	21.9	26.8
				1	7	21.8	26.7
				1	14	21.8	26.7
				8	0	20.7	26.7
				8	4	20.7	26.8
				8	7	20.7	26.7
				15	0	20.7	26.9

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	22.7	27.4
				1	12	22.6	27.3
				1	24	22.6	27.4
				12	0	21.7	26.8
				12	6	21.7	26.8
				12	11	21.7	26.8
				25	0	21.7	27.4
			16QAM	1	0	21.8	27.2
				1	12	21.8	27.1
				1	24	21.8	26.0
				12	0	20.6	26.8
				12	6	20.6	26.7
				12	11	20.5	26.7
				25	0	20.7	27.2
5.0	18900	1880.0	QPSK	1	0	22.6	26.2
				1	12	22.6	26.4
				1	24	22.6	26.6
				12	0	21.7	26.4
				12	6	21.6	26.4
				12	11	21.7	26.5
				25	0	21.7	26.9
			16QAM	1	0	21.7	26.2
				1	12	21.7	26.4
				1	24	21.8	26.6
				12	0	20.5	26.4
				12	6	20.5	26.4
				12	11	20.5	26.5
				25	0	20.6	26.8
5.0	19175	1907.5	QPSK	1	0	22.7	26.5
				1	12	22.7	26.7
				1	24	22.7	26.7
				12	0	21.8	26.7
				12	6	21.7	26.7
				12	11	21.7	26.7
				25	0	21.7	27.0
			16QAM	1	0	21.8	26.5
				1	12	21.8	26.7
				1	24	21.8	26.8
				12	0	20.6	26.6
				12	6	20.5	26.7
				12	11	20.5	26.8
				25	0	20.6	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	22.7	27.4
				1	24	22.6	27.1
				1	49	22.5	26.7
				25	0	21.7	27.0
				25	12	21.7	26.9
				25	24	21.7	26.4
				50	0	21.8	27.5
			16QAM	1	0	21.8	27.4
				1	24	21.8	26.9
				1	49	21.8	26.7
				25	0	20.9	26.9
				25	12	20.8	26.7
				25	24	20.8	26.4
				50	0	20.7	27.2
10.0	18900	1880.0	QPSK	1	0	22.6	26.2
				1	24	22.6	26.4
				1	49	22.6	26.9
				25	0	21.7	26.4
				25	12	21.7	26.5
				25	24	21.7	26.7
				50	0	21.7	26.7
			16QAM	1	0	21.7	26.2
				1	24	21.8	26.4
				1	49	21.8	27.0
				25	0	20.8	26.3
				25	12	20.7	26.4
				25	24	20.8	26.7
				50	0	20.6	26.9
10.0	19150	1905.0	QPSK	1	0	22.6	26.1
				1	24	22.6	26.3
				1	49	22.6	26.7
				25	0	21.7	26.3
				25	12	21.8	26.5
				25	24	21.7	26.7
				50	0	21.8	27.0
			16QAM	1	0	21.7	26.4
				1	24	21.8	26.3
				1	49	21.8	26.7
				25	0	20.7	26.3
				25	12	20.8	26.5
				25	24	20.8	26.7
				50	0	20.7	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	22.7	27.5
				1	37	22.6	26.4
				1	74	22.5	26.8
				36	0	21.8	27.0
				36	16	21.8	26.9
				36	35	21.7	26.7
				75	0	21.7	27.5
			16-QAM	1	0	21.8	27.3
				1	37	21.7	26.4
				1	74	21.6	26.8
				36	0	20.7	26.9
				36	16	20.6	26.4
				36	35	20.6	26.6
				75	0	20.7	27.3
15.0	18900	1880.0	QPSK	1	0	22.7	26.3
				1	37	22.7	26.4
				1	74	22.6	27.0
				36	0	21.8	26.4
				36	16	21.7	26.5
				36	35	21.7	26.7
				75	0	21.8	27.1
			16-QAM	1	0	21.6	26.3
				1	37	21.6	26.4
				1	74	21.6	27.0
				36	0	20.7	26.3
				36	16	20.7	26.4
				36	35	20.7	26.7
				75	0	20.7	26.9
15.0	19125	1902.5	QPSK	1	0	22.7	26.6
				1	37	22.7	27.2
				1	74	22.7	26.7
				36	0	21.8	27.2
				36	16	21.7	27.0
				36	35	21.8	26.6
				75	0	21.9	27.9
			16-QAM	1	0	21.7	26.7
				1	37	21.7	27.3
				1	74	21.6	26.7
				36	0	20.7	26.4
				36	16	20.7	26.3
				36	35	20.7	26.6
				75	0	20.7	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	22.7	27.6
				1	49	22.6	26.6
				1	99	22.6	26.3
				50	0	21.7	27.1
				50	24	21.5	26.5
				50	49	21.6	26.6
				100	0	21.5	26.4
			16-QAM	1	0	21.8	27.1
				1	49	21.6	26.6
				1	99	21.7	26.3
				50	0	20.5	26.9
				50	24	20.5	26.5
				50	49	20.5	26.7
				100	0	20.6	27.5
20.0	18900	1880.0	QPSK	1	0	22.6	26.2
				1	49	22.6	26.3
				1	99	22.6	27.0
				50	0	21.6	26.3
				50	24	21.6	26.4
				50	49	21.6	26.7
				100	0	21.6	26.8
			16-QAM	1	0	21.7	26.2
				1	49	21.7	26.3
				1	99	21.7	27.0
				50	0	20.5	26.2
				50	24	20.5	26.4
				50	49	20.5	26.7
				100	0	20.6	26.9
20.0	19100	1900.0	QPSK	1	0	22.7	27.0
				1	49	22.6	27.3
				1	99	22.6	26.5
				50	0	21.7	26.6
				50	24	21.6	27.0
				50	49	21.6	27.1
				100	0	21.6	27.0
			16-QAM	1	0	21.8	27.0
				1	49	21.7	25.9
				1	99	21.7	26.5
				50	0	20.5	26.6
				50	24	20.5	26.2
				50	49	20.5	26.4
				100	0	20.6	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	22.8	27.5
				1	2	22.8	27.3
				1	5	22.9	27.6
				3	0	22.9	27.8
				3	1	22.9	27.7
				3	2	22.9	27.7
			16QAM	1	0	22.1	27.6
				1	2	22.1	27.5
				1	5	22.1	27.6
				3	0	22.0	27.9
				3	1	22.0	27.9
				3	2	22.0	27.9
				6	0	21.0	27.2
				6	0	23.0	26.6
1.4	20175	1732.5	QPSK	1	2	22.9	26.5
				1	5	22.9	26.7
				3	0	23.0	27.0
				3	1	23.0	26.8
				3	2	23.0	26.8
				6	0	22.0	27.1
			16QAM	1	0	22.1	26.7
				1	2	22.0	26.5
				1	5	22.1	27.0
				3	0	22.1	27.6
				3	1	22.0	27.0
				3	2	22.0	26.7
				6	0	21.0	26.9
				6	0	22.8	26.5
1.4	20393	1754.3	QPSK	1	2	22.7	26.4
				1	5	22.8	26.4
				3	0	22.8	26.8
				3	1	22.8	26.6
				3	2	22.8	26.6
				6	0	21.8	27.0
			16QAM	1	0	22.0	26.6
				1	2	21.9	26.4
				1	5	21.9	26.4
				3	0	21.9	27.2
				3	1	21.9	26.6
				3	2	21.9	26.6
				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	23.0	27.6
				1	7	23.0	27.5
				1	14	23.0	27.7
				8	0	22.0	27.2
				8	4	22.1	27.2
				8	7	22.1	27.3
				15	0	22.2	27.5
			16QAM	1	0	22.3	27.7
				1	7	22.3	27.7
				1	14	22.2	27.8
				8	0	21.1	27.0
				8	4	21.2	27.2
				8	7	21.2	27.2
				15	0	21.2	27.7
3.0	20175	1732.5	QPSK	1	0	23.0	26.7
				1	7	22.9	26.5
				1	14	22.9	26.7
				8	0	22.0	26.8
				8	4	22.1	26.8
				8	7	22.0	26.8
				15	0	22.0	27.2
			16QAM	1	0	22.2	26.7
				1	7	22.1	26.6
				1	14	22.2	26.7
				8	0	21.1	26.8
				8	4	21.1	26.7
				8	7	21.1	26.8
				15	0	21.0	27.1
3.0	20385	1753.5	QPSK	1	0	22.9	26.7
				1	7	22.8	26.5
				1	14	22.8	26.5
				8	0	21.9	26.7
				8	4	21.9	26.7
				8	7	21.9	26.7
				15	0	21.9	27.1
			16QAM	1	0	22.0	26.7
				1	7	21.9	26.5
				1	14	22.0	26.6
				8	0	21.0	26.7
				8	4	21.0	26.7
				8	7	21.0	26.7
				15	0	20.9	27.1

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	23.0	27.5
				1	12	22.9	27.6
				1	24	23.0	27.7
				12	0	22.0	27.1
				12	6	22.1	27.0
				12	11	22.1	27.1
				25	0	22.1	27.7
			16QAM	1	0	22.2	27.3
				1	12	22.1	27.4
				1	24	22.1	27.5
				12	0	20.9	27.0
				12	6	20.9	26.9
				12	11	20.9	27.0
				25	0	21.0	27.6
5.0	20175	1732.5	QPSK	1	0	23.0	26.5
				1	12	22.9	26.5
				1	24	22.9	26.6
				12	0	22.1	26.6
				12	6	22.0	26.6
				12	11	22.0	26.7
				25	0	22.0	27.2
			16QAM	1	0	22.1	26.5
				1	12	22.0	26.5
				1	24	22.1	26.6
				12	0	20.8	26.6
				12	6	20.9	26.6
				12	11	20.8	26.7
				25	0	21.0	27.0
5.0	20375	1752.5	QPSK	1	0	22.8	26.7
				1	12	22.8	26.5
				1	24	22.8	26.5
				12	0	21.9	26.7
				12	6	21.9	26.6
				12	11	21.9	26.6
				25	0	21.8	27.0
			16QAM	1	0	21.9	26.7
				1	12	21.9	26.5
				1	24	21.9	26.5
				12	0	20.7	26.7
				12	6	20.7	26.6
				12	11	20.7	26.6
				25	0	20.9	27.0

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	22.9	27.5
				1	24	23.0	27.6
				1	49	23.0	27.7
				25	0	22.1	27.3
				25	12	22.1	27.3
				25	24	22.1	27.4
				50	0	22.1	27.5
			16QAM	1	0	22.2	27.7
				1	24	22.2	27.7
				1	49	22.2	27.8
				25	0	21.3	27.3
				25	12	21.2	27.2
				25	24	21.2	27.3
				50	0	21.1	28.0
10.0	20175	1732.5	QPSK	1	0	23.0	26.5
				1	24	22.9	26.5
				1	49	22.9	26.8
				25	0	22.1	26.7
				25	12	22.1	26.7
				25	24	22.0	26.8
				50	0	22.1	26.9
			16QAM	1	0	22.2	26.9
				1	24	22.1	26.7
				1	49	22.1	26.8
				25	0	21.2	26.7
				25	12	21.1	26.7
				25	24	21.1	26.7
				50	0	21.1	27.2
10.0	20350	1750.0	QPSK	1	0	22.8	26.8
				1	24	22.7	26.6
				1	49	22.8	26.5
				25	0	22.0	26.8
				25	12	21.9	26.8
				25	24	21.9	26.7
				50	0	22.0	26.9
			16QAM	1	0	21.7	26.9
				1	24	21.7	26.6
				1	49	21.7	26.5
				25	0	20.9	26.8
				25	12	20.9	26.7
				25	24	20.9	26.7
				50	0	20.9	27.0

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	22.9	27.3
				1	37	23.0	27.4
				1	74	23.0	27.5
				36	0	22.1	27.4
				36	16	22.1	27.2
				36	35	22.1	27.3
				75	0	22.1	27.8
			16-QAM	1	0	21.9	27.6
				1	37	22.0	27.7
				1	74	21.9	27.7
				36	0	21.1	27.2
				36	16	21.1	27.1
				36	35	21.0	27.1
				75	0	21.1	27.8
15.0	20175	1732.5	QPSK	1	0	23.0	27.6
				1	37	22.9	26.6
				1	74	22.8	26.6
				36	0	22.0	27.2
				36	16	22.0	26.6
				36	35	21.9	26.7
				75	0	22.1	27.9
			16-QAM	1	0	22.0	27.8
				1	37	21.9	26.6
				1	74	21.8	26.6
				36	0	21.0	26.6
				36	16	21.0	26.6
				36	35	20.9	26.7
				75	0	21.0	27.6
15.0	20325	1747.5	QPSK	1	0	22.8	26.7
				1	37	22.7	26.6
				1	74	22.7	26.4
				36	0	22.0	26.8
				36	16	21.9	26.7
				36	35	21.8	26.6
				75	0	22.0	27.2
			16-QAM	1	0	21.7	26.7
				1	37	21.6	26.6
				1	74	21.6	26.4
				36	0	20.9	26.8
				36	16	20.9	26.7
				36	35	20.9	26.6
				75	0	20.9	27.0

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	22.8	27.6
				1	49	22.9	27.7
				1	99	22.9	27.7
				50	0	22.0	27.4
				50	24	21.9	27.1
				50	49	21.9	27.3
			16-QAM	100	0	22.0	27.8
				1	0	21.9	27.1
				1	49	22.0	27.2
				1	99	22.0	26.2
				50	0	20.9	27.2
				50	24	20.9	27.0
				50	49	20.8	27.1
				100	0	21.0	27.7
20.0	20175	1732.5	QPSK	1	0	23.0	27.9
				1	49	22.9	27.0
				1	99	22.8	26.5
				50	0	22.0	27.3
				50	24	21.9	26.4
				50	49	21.8	26.5
			16-QAM	100	0	21.9	27.7
				1	0	22.1	27.4
				1	49	22.0	26.4
				1	99	21.8	26.5
				50	0	20.9	27.1
				50	24	20.8	26.4
				50	49	20.8	26.5
				100	0	20.9	27.2
20.0	20300	1745.0	QPSK	1	0	22.8	26.4
				1	49	22.7	26.5
				1	99	22.7	26.7
				50	0	21.8	26.6
				50	24	21.7	26.6
				50	49	21.8	26.5
			16-QAM	100	0	21.8	26.6
				1	0	21.6	26.5
				1	49	21.5	26.6
				1	99	21.5	26.2
				50	0	20.8	26.6
				50	24	20.7	26.6
				50	49	20.7	26.5
				100	0	20.8	26.8

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	24.0	28.6
				1	2	23.8	28.4
				1	5	23.9	28.6
				3	0	24.0	28.7
				3	1	24.0	28.7
				3	2	23.9	28.7
			16QAM	6	0	23.0	28.6
				1	0	23.1	28.5
				1	2	23.1	28.4
				1	5	23.1	28.6
				3	0	23.1	28.8
				3	1	23.1	28.7
				3	2	23.0	28.7
				6	0	21.9	28.1
1.4	20525	836.5	QPSK	1	0	23.9	28.5
				1	2	23.9	28.4
				1	5	23.9	28.5
				3	0	24.0	28.6
				3	1	23.9	28.6
				3	2	24.0	28.6
			16QAM	6	0	23.0	28.5
				1	0	23.1	28.5
				1	2	23.1	28.5
				1	5	23.1	28.5
				3	0	23.1	28.9
				3	1	23.0	28.7
				3	2	23.0	28.6
				6	0	21.9	28.2
1.4	20643	848.3	QPSK	1	0	23.8	28.5
				1	2	23.8	28.4
				1	5	23.8	28.5
				3	0	23.9	28.8
				3	1	23.8	28.7
				3	2	23.9	28.8
			16QAM	6	0	22.8	28.4
				1	0	23.0	28.5
				1	2	23.0	28.4
				1	5	23.0	28.6
				3	0	22.9	28.9
				3	1	22.9	28.8
				3	2	22.9	28.7
				6	0	21.8	28.0

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	28.6
				1	7	23.8	28.4
				1	14	23.9	28.6
				8	0	22.9	28.2
				8	4	22.9	28.0
				8	7	23.0	28.2
			16QAM	15	0	23.0	28.4
				1	0	23.2	28.6
				1	7	23.1	28.5
				1	14	23.2	28.6
				8	0	22.0	27.9
				8	4	22.0	27.8
				8	7	22.0	28.0
				15	0	21.9	28.5
3.0	20525	836.5	QPSK	1	0	23.9	28.5
				1	7	23.9	28.5
				1	14	23.8	28.5
				8	0	23.0	28.0
				8	4	22.9	28.0
				8	7	23.0	28.0
			16QAM	15	0	23.0	28.3
				1	0	22.8	28.4
				1	7	22.7	28.1
				1	14	22.8	28.3
				8	0	21.9	27.7
				8	4	21.9	27.6
				8	7	21.9	27.7
				15	0	21.9	28.1
3.0	20635	847.5	QPSK	1	0	23.9	28.7
				1	7	23.8	28.4
				1	14	23.8	28.6
				8	0	23.0	28.3
				8	4	22.9	28.0
				8	7	22.9	28.1
			16QAM	15	0	22.9	28.9
				1	0	23.1	28.5
				1	7	23.0	28.4
				1	14	23.1	28.6
				8	0	22.0	27.9
				8	4	21.9	27.7
				8	7	21.9	27.8
				15	0	21.8	28.7

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	23.9	28.6
				1	12	23.9	28.4
				1	24	23.9	28.6
				12	0	22.9	28.0
				12	6	23.0	27.9
				12	11	22.9	27.8
				25	0	22.9	28.4
			16QAM	1	0	23.0	28.3
				1	12	22.9	28.0
				1	24	23.0	28.2
				12	0	21.8	27.8
				12	6	21.7	27.7
				12	11	21.7	27.7
				25	0	21.9	28.2
5.0	20525	836.5	QPSK	1	0	24.0	28.4
				1	12	23.9	28.5
				1	24	23.9	28.5
				12	0	23.0	28.2
				12	6	23.0	28.0
				12	11	23.0	28.1
				25	0	22.9	28.7
			16QAM	1	0	22.7	28.4
				1	12	22.6	28.1
				1	24	22.7	28.3
				12	0	21.9	27.8
				12	6	21.8	27.7
				12	11	21.8	27.6
				25	0	21.9	28.1
5.0	20625	846.5	QPSK	1	0	23.9	28.7
				1	12	24.0	28.6
				1	24	23.9	28.6
				12	0	22.9	28.3
				12	6	22.9	28.1
				12	11	22.8	28.0
				25	0	22.9	28.6
			16QAM	1	0	22.6	28.1
				1	12	22.7	28.2
				1	24	22.6	28.3
				12	0	21.8	27.8
				12	6	21.9	27.8
				12	11	21.8	27.7
				25	0	21.8	28.1

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	28.4
				1	24	23.8	28.4
				1	49	23.9	28.5
				25	0	23.0	28.1
				25	12	23.1	28.3
				25	24	23.0	28.2
				50	0	23.1	29.1
			16QAM	1	0	23.1	28.4
				1	24	23.1	28.5
				1	49	23.1	28.5
				25	0	22.0	27.9
				25	12	22.0	27.9
				25	24	22.1	28.1
				50	0	21.9	28.2
10.0	20525	836.5	QPSK	1	0	23.9	28.4
				1	24	23.9	28.5
				1	49	23.8	28.4
				25	0	23.0	28.1
				25	12	23.0	28.1
				25	24	23.0	28.1
				50	0	23.0	28.8
			16QAM	1	0	22.8	28.2
				1	24	22.7	28.2
				1	49	22.6	28.0
				25	0	21.9	27.9
				25	12	21.9	27.8
				25	24	21.9	27.8
				50	0	21.9	28.0
10.0	20600	844.0	QPSK	1	0	23.8	28.3
				1	24	23.8	28.2
				1	49	23.7	28.4
				25	0	22.9	28.1
				25	12	22.8	27.9
				25	24	22.9	28.2
				50	0	22.9	28.6
			16QAM	1	0	23.0	28.4
				1	24	23.0	28.4
				1	49	23.0	28.5
				25	0	21.9	28.0
				25	12	21.9	27.9
				25	24	21.9	27.9
				50	0	21.8	28.2

7.1.4. 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	23.8	28.3
				1	2	23.8	28.2
				1	5	23.8	28.4
				3	0	23.9	28.5
				3	1	23.9	28.5
				3	2	23.9	28.5
			16QAM	6	0	22.9	28.3
				1	0	23.0	28.3
				1	2	23.0	28.2
				1	5	23.0	28.4
				3	0	23.0	28.6
				3	1	22.9	28.4
				3	2	22.9	28.5
				6	0	21.8	27.9
1.4	23095	707.5	QPSK	1	0	24.0	28.6
				1	2	23.8	28.4
				1	5	23.9	28.6
				3	0	24.0	29.0
				3	1	23.9	28.8
				3	2	23.9	28.8
			16QAM	6	0	22.9	28.5
				1	0	23.1	28.7
				1	2	23.0	28.5
				1	5	23.1	28.7
				3	0	23.0	29.0
				3	1	23.0	28.9
				3	2	23.0	28.8
				6	0	21.9	28.2
1.4	23173	715.3	QPSK	1	0	23.9	28.8
				1	2	23.8	28.6
				1	5	23.8	28.7
				3	0	23.9	29.0
				3	1	23.9	28.9
				3	2	23.9	28.9
			16QAM	6	0	22.9	28.4
				1	0	22.9	28.9
				1	2	22.8	28.7
				1	5	22.9	28.9
				3	0	22.8	29.0
				3	1	22.9	28.9
				3	2	22.8	28.8
				6	0	21.9	28.2

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	23.8	28.3
				1	7	23.7	28.1
				1	14	23.9	28.6
				8	0	22.8	27.9
				8	4	23.0	27.8
				8	7	23.0	28.0
			16QAM	15	0	22.9	28.0
				1	0	23.2	28.3
				1	7	22.9	28.2
				1	14	23.1	28.6
				8	0	21.9	27.6
				8	4	22.0	27.6
				8	7	22.0	27.7
				15	0	21.9	28.4
3.0	23095	707.5	QPSK	1	0	23.9	28.7
				1	7	23.8	28.4
				1	14	23.7	28.4
				8	0	22.9	28.0
				8	4	22.9	27.9
				8	7	22.9	27.8
			16QAM	15	0	22.9	28.3
				1	0	22.8	27.0
				1	7	22.7	28.0
				1	14	22.6	26.9
				8	0	21.9	27.7
				8	4	21.9	27.7
				8	7	21.9	27.6
				15	0	21.9	28.2
3.0	23165	714.5	QPSK	1	0	23.8	28.6
				1	7	23.7	28.4
				1	14	23.8	28.7
				8	0	22.9	28.1
				8	4	22.9	28.0
				8	7	22.9	28.1
			16QAM	15	0	22.9	28.1
				1	0	22.7	28.3
				1	7	22.6	28.1
				1	14	22.6	28.2
				8	0	21.9	27.7
				8	4	21.8	27.5
				8	7	21.9	27.6
				15	0	21.8	28.1

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	23.8	28.4
				1	12	23.9	28.4
				1	24	23.9	28.7
				12	0	23.0	28.0
				12	6	23.0	27.9
				12	11	22.9	27.9
			16QAM	25	0	22.9	28.0
				1	0	22.7	28.2
				1	12	22.8	28.1
				1	24	22.8	28.5
				12	0	22.0	27.8
				12	6	21.9	27.6
				12	11	21.9	27.8
				25	0	21.9	28.0
5.0	23095	707.5	QPSK	1	0	23.9	28.7
				1	12	23.8	28.3
				1	24	23.7	28.4
				12	0	22.9	28.0
				12	6	22.9	27.9
				12	11	22.9	27.8
			16QAM	25	0	22.9	28.1
				1	0	23.0	28.4
				1	12	22.9	28.2
				1	24	22.8	28.1
				12	0	21.7	27.9
				12	6	21.7	27.8
				12	11	21.7	27.7
				25	0	21.9	28.1
5.0	23155	713.5	QPSK	1	0	23.9	28.6
				1	12	23.9	28.5
				1	24	23.9	28.6
				12	0	22.8	28.0
				12	6	22.8	27.8
				12	11	22.8	27.9
			16QAM	25	0	22.9	28.8
				1	0	22.6	28.3
				1	12	22.5	28.0
				1	24	22.6	28.4
				12	0	21.8	27.6
				12	6	21.8	27.7
				12	11	21.8	27.7
				25	0	21.8	27.9

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	23.9	28.6
				1	49	23.9	28.5
				25	0	23.0	28.0
				25	12	23.0	28.0
				25	24	22.9	27.9
				50	0	23.0	28.8
			16QAM	1	0	22.9	28.1
				1	24	22.9	28.3
				1	49	22.9	28.0
				25	0	21.9	27.7
				25	12	21.9	27.7
				25	24	21.9	27.8
				50	0	21.9	28.6
10.0	23095	707.5	QPSK	1	0	23.8	28.5
				1	24	23.8	28.5
				1	49	23.8	28.4
				25	0	23.0	28.0
				25	12	22.9	28.1
				25	24	22.9	27.9
				50	0	22.9	28.5
			16QAM	1	0	22.7	28.1
				1	24	22.7	28.1
				1	49	22.6	28.0
				25	0	21.9	27.8
				25	12	21.9	27.8
				25	24	21.8	27.7
				50	0	21.9	28.3
10.0	23130	711.0	QPSK	1	0	23.9	28.6
				1	24	23.9	28.5
				1	49	23.9	28.6
				25	0	22.9	28.0
				25	12	22.9	28.0
				25	24	22.9	28.0
				50	0	22.9	28.3
			16QAM	1	0	22.9	27.0
				1	24	22.9	28.3
				1	49	22.9	28.4
				25	0	21.9	27.8
				25	12	21.8	27.7
				25	24	21.8	27.8
				50	0	21.8	28.3

7.1.5. LTE BAND 13

OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23207	779.5	QPSK	1	0	24.0	27.7
				1	12	24.0	27.6
				1	24	24.0	28.0
				12	0	23.0	28.2
				12	6	22.9	27.7
				12	11	22.9	28.0
			16QAM	25	0	22.9	27.9
				1	0	22.7	27.7
				1	12	22.7	27.7
				1	24	22.7	28.0
				12	0	21.9	28.0
				12	6	21.9	27.8
				12	11	21.9	27.9
				25	0	21.9	28.1
5.0	23230	782.0	QPSK	1	0	23.8	27.7
				1	12	23.8	28.2
				1	24	23.7	28.0
				12	0	22.8	28.0
				12	6	22.8	28.1
				12	11	22.8	27.9
			16QAM	25	0	22.8	27.9
				1	0	22.7	27.7
				1	12	22.6	28.2
				1	24	22.7	28.1
				12	0	21.9	27.9
				12	6	21.8	27.9
				12	11	21.8	27.9
				25	0	21.8	28.0
5.0	23255	784.5	QPSK	1	0	23.9	28.2
				1	12	23.8	28.4
				1	24	23.9	28.5
				12	0	22.9	28.2
				12	6	22.9	28.2
				12	11	22.8	28.0
			16QAM	25	0	22.9	28.1
				1	0	22.6	28.2
				1	12	22.5	28.0
				1	24	22.6	28.4
				12	0	21.8	27.9
				12	6	21.8	27.8
				12	11	21.8	27.6
				25	0	21.8	28.0

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23230	782.0	QPSK	1	0	24.0	28.4
				1	24	23.9	28.3
				1	49	23.8	28.5
				25	0	23.0	28.1
				25	12	23.0	28.2
				25	24	22.9	28.3
				50	0	23.1	28.5
			16QAM	1	0	23.2	28.4
				1	24	23.1	28.3
				1	49	23.1	28.6
				25	0	22.1	28.2
				25	12	22.0	28.2
				25	24	22.0	28.3
				50	0	22.0	28.5

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	27.6
				1	12	23.7	27.7
				1	24	23.8	27.4
				12	0	22.9	27.8
				12	6	22.9	27.8
				12	11	22.9	27.7
				25	0	22.9	27.8
			16QAM	1	0	22.9	27.7
				1	12	22.8	27.8
				1	24	22.9	27.4
				12	0	21.7	27.9
				12	6	21.7	27.8
				12	11	21.7	27.7
				25	0	21.9	27.9
5.0	23790	710.0	QPSK	1	0	23.9	27.5
				1	12	23.8	27.3
				1	24	23.8	28.8
				12	0	22.9	28.1
				12	6	22.8	27.5
				12	11	22.8	28.0
				25	0	22.8	28.0
			16QAM	1	0	22.6	27.5
				1	12	22.5	27.3
				1	24	22.5	28.4
				12	0	21.8	27.5
				12	6	21.8	27.5
				12	11	21.8	27.3
				25	0	21.8	28.0
5.0	23825	713.5	QPSK	1	0	23.9	28.7
				1	12	23.8	27.4
				1	24	23.8	28.7
				12	0	22.9	28.1
				12	6	22.8	27.5
				12	11	22.9	28.1
				25	0	22.9	28.3
			16QAM	1	0	22.6	27.8
				1	12	22.6	27.4
				1	24	22.6	27.6
				12	0	21.8	27.5
				12	6	21.8	27.6
				12	11	21.8	27.5
				25	0	21.8	28.0

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	27.9
				1	24	23.7	27.4
				1	49	23.7	27.5
				25	0	22.8	27.8
				25	12	22.8	27.6
				25	24	22.8	27.5
			16QAM	50	0	22.9	27.8
				1	0	23.0	27.9
				1	24	22.9	27.5
				1	49	22.9	27.5
				25	0	22.0	27.8
				25	12	21.9	27.6
				25	24	21.9	27.5
				50	0	21.9	28.1
10.0	23790	710.0	QPSK	1	0	23.7	27.8
				1	24	23.7	27.8
				1	49	23.7	27.4
				25	0	22.9	27.6
				25	12	22.9	28.0
				25	24	22.9	27.6
			16QAM	50	0	22.9	28.2
				1	0	22.9	27.9
				1	24	22.9	27.9
				1	49	22.9	27.5
				25	0	22.0	27.7
				25	12	22.0	27.5
				25	24	22.0	27.5
				50	0	21.8	27.8
10.0	23800	711.0	QPSK	1	0	23.8	28.0
				1	24	23.7	27.4
				1	49	23.7	27.5
				25	0	22.8	27.7
				25	12	22.9	27.5
				25	24	22.8	27.5
			16QAM	50	0	22.9	27.8
				1	0	23.0	28.0
				1	24	23.0	27.5
				1	49	22.9	27.5
				25	0	22.0	27.7
				25	12	21.9	27.5
				25	24	21.9	27.5
				50	0	21.9	27.9

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	22.0	26.9
				1	2	21.8	26.7
				1	5	21.9	26.9
				3	0	21.9	27.2
				3	1	22.0	27.0
				3	2	22.0	27.1
			16QAM	6	0	20.9	26.8
				1	0	21.1	26.9
				1	2	21.1	26.7
				1	5	21.1	26.9
				3	0	21.1	26.8
				3	1	21.0	27.1
				3	2	21.0	27.0
				6	0	19.9	27.2
1.4	26365	1882.5	QPSK	1	0	21.7	26.0
				1	2	21.6	25.9
				1	5	21.7	26.0
				3	0	21.7	26.2
				3	1	21.7	26.1
				3	2	21.8	26.1
			16QAM	6	0	20.8	26.3
				1	0	20.9	26.0
				1	2	20.8	25.9
				1	5	21.0	26.1
				3	0	20.8	26.1
				3	1	20.8	26.1
				3	2	20.8	26.2
				6	0	19.7	26.2
1.4	26683	1914.3	QPSK	1	0	21.8	26.8
				1	2	21.7	26.6
				1	5	21.8	26.8
				3	0	21.8	27.0
				3	1	21.8	26.9
				3	2	21.8	26.9
			16QAM	6	0	20.9	26.7
				1	0	21.0	26.8
				1	2	20.9	26.6
				1	5	21.1	26.9
				3	0	20.9	27.1
				3	1	20.8	27.0
				3	2	20.8	27.0
				6	0	19.8	26.4

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	22.0	26.9
				1	7	21.9	26.7
				1	14	21.8	26.8
				8	0	21.1	26.5
				8	4	21.0	26.3
				8	7	21.0	26.4
				15	0	21.0	26.7
			16QAM	1	0	21.2	27.0
				1	7	21.1	26.8
				1	14	21.2	26.9
				8	0	20.1	26.3
				8	4	20.1	26.3
				8	7	20.1	26.3
				15	0	20.0	26.7
3.0	26365	1882.5	QPSK	1	0	21.8	26.1
				1	7	21.7	26.0
				1	14	21.8	26.3
				8	0	20.8	26.1
				8	4	20.9	26.1
				8	7	20.8	26.2
				15	0	20.9	26.3
			16QAM	1	0	21.0	26.1
				1	7	21.0	26.0
				1	14	21.0	26.3
				8	0	19.9	26.0
				8	4	19.9	26.1
				8	7	19.9	26.2
				15	0	19.8	26.5
3.0	26675	1913.5	QPSK	1	0	22.0	25.8
				1	7	21.8	26.5
				1	14	21.9	26.9
				8	0	20.9	26.2
				8	4	20.9	26.3
				8	7	20.9	26.3
				15	0	20.9	27.2
			16QAM	1	0	21.1	26.0
				1	7	21.0	26.6
				1	14	21.1	26.9
				8	0	19.9	25.7
				8	4	19.9	26.2
				8	7	19.9	26.2
				15	0	19.9	26.4

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	22.0	26.7
				1	12	21.8	26.6
				1	24	21.8	26.8
				12	0	21.1	26.4
				12	6	21.1	26.3
				12	11	20.9	26.2
				25	0	21.0	27.0
			16QAM	1	0	21.1	26.7
				1	12	20.9	25.7
				1	24	20.9	25.5
				12	0	19.8	26.2
				12	6	19.9	26.1
				12	11	19.7	26.0
				25	0	20.0	26.6
5.0	26365	1882.5	QPSK	1	0	21.8	26.0
				1	12	21.7	26.0
				1	24	21.8	26.4
				12	0	20.8	26.0
				12	6	20.9	26.1
				12	11	20.9	26.1
				25	0	20.9	26.4
			16QAM	1	0	20.9	26.0
				1	12	20.9	26.0
				1	24	20.9	26.4
				12	0	19.7	26.0
				12	6	19.7	26.0
				12	11	19.6	26.1
				25	0	19.8	26.3
5.0	26665	1912.5	QPSK	1	0	21.9	26.2
				1	12	21.8	25.5
				1	24	21.8	26.8
				12	0	21.0	26.0
				12	6	21.0	25.8
				12	11	20.9	26.1
				25	0	20.9	26.2
			16QAM	1	0	21.1	26.2
				1	12	21.0	25.6
				1	24	21.0	26.6
				12	0	19.8	26.0
				12	6	19.8	25.8
				12	11	19.7	25.5
				25	0	19.9	26.1

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	22.0	27.0
				1	24	21.8	25.8
				1	49	21.8	26.1
				25	0	21.0	26.4
				25	12	20.9	26.3
				25	24	20.9	25.9
				50	0	20.9	27.2
			16QAM	1	0	21.1	26.8
				1	24	20.9	25.5
				1	49	20.9	26.2
				25	0	20.0	26.2
				25	12	19.9	25.6
				25	24	19.9	25.9
				50	0	19.9	27.1
10.0	26365	1882.5	QPSK	1	0	21.8	25.8
				1	24	21.7	26.0
				1	49	21.7	26.6
				25	0	20.9	26.0
				25	12	20.9	26.2
				25	24	20.9	26.3
				50	0	20.9	26.4
			16QAM	1	0	20.6	25.8
				1	24	20.6	26.0
				1	49	20.6	26.5
				25	0	19.9	25.9
				25	12	19.8	26.1
				25	24	19.8	26.2
				50	0	19.8	26.2
10.0	26640	1910.0	QPSK	1	0	21.9	26.0
				1	24	21.9	26.1
				1	49	21.8	26.7
				25	0	20.9	26.1
				25	12	21.0	26.1
				25	24	21.0	26.4
				50	0	21.0	26.4
			16QAM	1	0	21.0	26.0
				1	24	21.0	26.2
				1	49	21.0	26.7
				25	0	20.0	26.1
				25	12	20.0	26.1
				25	24	20.1	25.9
				50	0	19.8	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	22.0	26.4
				1	37	21.8	25.9
				1	74	21.7	26.2
				36	0	21.0	26.5
				36	16	20.9	25.9
				36	35	20.8	26.1
				75	0	20.9	26.7
			16-QAM	1	0	21.0	26.9
				1	37	20.7	25.9
				1	74	20.6	26.3
				36	0	20.0	26.3
				36	16	19.9	25.9
				36	35	19.8	26.0
				75	0	19.9	26.2
15.0	26365	1882.5	QPSK	1	0	21.8	25.7
				1	37	21.8	26.0
				1	74	21.8	26.5
				36	0	20.9	25.9
				36	16	20.9	26.1
				36	35	20.9	26.3
				75	0	21.0	26.6
			16-QAM	1	0	20.8	25.7
				1	37	20.8	26.0
				1	74	20.8	26.7
				36	0	19.8	25.9
				36	16	19.8	26.0
				36	35	19.8	26.2
				75	0	19.9	26.4
15.0	26615	1907.5	QPSK	1	0	21.8	25.5
				1	37	21.8	26.1
				1	74	21.8	26.6
				36	0	20.9	26.0
				36	16	20.9	26.1
				36	35	21.0	26.0
				75	0	21.1	26.5
			16-QAM	1	0	20.8	25.6
				1	37	20.8	26.1
				1	74	20.8	26.4
				36	0	19.9	26.0
				36	16	19.9	26.1
				36	35	19.9	26.1
				75	0	19.9	26.7

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	26.1
				1	49	21.7	26.1
				1	99	21.8	25.9
				50	0	20.9	26.5
				50	24	20.8	26.0
				50	49	20.9	26.1
				100	0	20.9	27.0
			16-QAM	1	0	21.1	26.6
				1	49	20.9	26.1
				1	99	20.9	25.9
				50	0	19.8	26.2
				50	24	19.7	26.0
				50	49	19.7	26.1
				100	0	19.9	26.2
20.0	26365	1882.5	QPSK	1	0	21.8	25.6
				1	49	21.9	25.9
				1	99	21.9	26.5
				50	0	20.8	25.8
				50	24	20.8	26.0
				50	49	20.9	26.3
				100	0	20.8	26.5
			16-QAM	1	0	20.9	25.7
				1	49	20.9	25.9
				1	99	20.9	26.5
				50	0	19.7	25.8
				50	24	19.7	26.0
				50	49	19.7	26.2
				100	0	19.9	26.4
20.0	26590	1905.0	QPSK	1	0	21.8	25.9
				1	49	21.9	25.7
				1	99	21.8	26.9
				50	0	20.8	26.0
				50	24	20.9	26.0
				50	49	20.9	26.0
				100	0	20.9	26.4
			16-QAM	1	0	21.0	26.0
				1	49	20.9	25.7
				1	99	20.9	26.2
				50	0	19.7	25.9
				50	24	19.8	26.0
				50	49	19.7	26.0
				100	0	19.9	26.5

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	23.2	27.7
				1	2	23.5	27.8
				1	5	23.5	28.0
				3	0	23.4	28.0
				3	1	23.5	28.0
				3	2	23.6	28.1
			16QAM	6	0	22.5	27.8
				1	0	22.2	27.7
				1	2	22.5	27.9
				1	5	22.5	28.0
				3	0	22.4	27.9
				3	1	22.5	28.0
				3	2	22.6	28.0
				6	0	21.5	27.8
1.4	26740	819.0	QPSK	1	0	23.9	28.2
				1	2	23.9	28.2
				1	5	23.8	28.3
				3	0	23.8	28.4
				3	1	23.8	28.4
				3	2	23.8	28.4
			16QAM	6	0	22.9	28.4
				1	0	23.1	28.3
				1	2	23.1	28.3
				1	5	23.1	28.3
				3	0	22.8	28.4
				3	1	22.9	28.4
				3	2	22.9	28.4
				6	0	22.0	28.2
1.4	26783	823.3	QPSK	1	0	24.0	28.5
				1	2	23.9	28.4
				1	5	24.0	28.4
				3	0	23.9	28.2
				3	1	23.9	28.6
				3	2	23.9	28.5
			16QAM	6	0	23.0	28.6
				1	0	23.2	28.5
				1	2	23.1	28.4
				1	5	23.1	28.3
				3	0	23.1	28.2
				3	1	23.0	28.2
				3	2	23.0	28.1
				6	0	22.0	28.5

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	23.9	28.5			
				1	7	23.8	28.3			
				1	14	23.9	28.4			
				8	0	23.0	28.2			
				8	4	23.0	28.1			
				8	7	23.0	28.2			
			16QAM	15	0	23.0	28.6			
				1	0	23.1	28.5			
				1	7	23.1	28.4			
				1	14	23.2	28.4			
				8	0	22.1	28.1			
				8	4	22.1	28.0			
			3.0	26740	819.0	QPSK	8	7	22.1	28.1
							15	0	22.0	28.6
							1	0	23.1	28.3
1	7	23.1					28.2			
1	14	23.2					28.4			
8	0	22.0					28.1			
16QAM	8	4				22.1	28.1			
	8	7				22.1	28.1			
	15	0				22.0	28.0			
	1	0				23.9	28.4			
	1	7				23.9	28.2			
	1	14				23.9	28.4			
3.0	26775	822.5				QPSK	8	0	22.8	28.0
							8	4	22.9	28.0
							8	7	23.0	28.1
			15	0	22.9		28.4			
			1	0	23.1		28.3			
			1	7	23.1		28.2			
			16QAM	1	14	23.2	28.4			
				8	0	22.0	28.1			
				8	4	22.1	28.1			
				8	7	22.1	28.1			
				15	0	22.0	28.0			
				1	0	23.9	28.4			
			3.0	26705	815.5	QPSK	1	7	23.8	28.3
							1	14	23.9	28.5
							8	0	22.9	28.1
8	4	22.9					28.0			
8	7	23.0					28.2			
15	0	23.0					28.2			
16QAM	1	0				23.2	28.4			
	1	7				23.1	28.4			
	1	14				23.2	28.5			
	8	0				22.1	28.0			
	8	4				22.0	27.9			
	8	7				22.1	28.0			
15	0	22.0				28.5				

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	23.3	27.7
				1	12	23.8	28.2
				1	24	23.7	28.2
				12	0	22.6	27.7
				12	6	22.8	27.8
				12	11	22.8	27.9
				25	0	22.7	28.2
			16QAM	1	0	22.4	27.7
				1	12	22.8	28.2
				1	24	22.9	28.2
				12	0	21.7	27.7
				12	6	21.9	27.8
				12	11	21.9	27.9
				25	0	21.7	28.1
5.0	26740	819.0	QPSK	1	0	23.7	28.2
				1	12	23.9	28.2
				1	24	23.9	28.3
				12	0	22.8	27.9
				12	6	22.9	27.9
				12	11	23.0	28.0
				25	0	22.9	28.4
			16QAM	1	0	23.1	28.2
				1	12	23.1	28.2
				1	24	23.1	28.3
				12	0	21.8	27.9
				12	6	21.8	27.9
				12	11	21.9	28.0
				25	0	21.9	28.2
5.0	26765	821.5	QPSK	1	0	24.0	28.2
				1	12	24.0	28.4
				1	24	24.0	28.5
				12	0	23.0	28.1
				12	6	23.0	28.0
				12	11	23.0	28.1
				25	0	23.0	28.6
			16QAM	1	0	22.8	28.2
				1	12	22.7	28.1
				1	24	22.7	28.3
				12	0	22.0	27.9
				12	6	22.0	27.8
				12	11	21.9	27.8
				25	0	22.0	28.3

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	23.7	28.0
				1	24	23.9	28.2
				1	49	23.8	28.3
				25	0	22.9	28.0
				25	12	23.0	28.0
				25	24	23.0	28.1
				50	0	23.1	28.6
			16QAM	1	0	22.9	28.0
				1	24	23.1	28.3
				1	49	23.1	28.4
				25	0	22.0	27.9
				25	12	22.1	28.0
				25	24	22.1	28.1
				50	0	22.0	28.3

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	21.5	26.4
				1	2	21.4	24.9
				1	5	21.5	26.4
				3	0	21.4	26.5
				3	1	21.5	26.2
				3	2	21.5	26.4
			16QAM	6	0	20.6	25.7
				1	0	20.5	24.9
				1	2	20.4	24.9
				1	5	20.4	24.9
				3	0	20.3	25.0
				3	1	20.2	25.0
				3	2	20.2	25.0
				6	0	19.6	25.8
1.4	18900	1880.0	QPSK	1	0	21.4	25.8
				1	2	21.4	25.8
				1	5	21.4	25.9
				3	0	21.5	26.0
				3	1	21.5	26.0
				3	2	21.5	26.0
			16QAM	6	0	20.6	26.1
				1	0	20.6	25.8
				1	2	20.6	25.9
				1	5	20.6	25.9
				3	0	20.5	26.0
				3	1	20.4	26.0
				3	2	20.4	26.1
				6	0	19.6	25.9
1.4	19193	1909.3	QPSK	1	0	21.2	26.1
				1	2	21.1	25.8
				1	5	21.2	26.0
				3	0	21.3	26.2
				3	1	21.2	26.2
				3	2	21.2	26.1
			16QAM	6	0	20.3	25.9
				1	0	20.4	26.0
				1	2	20.4	25.9
				1	5	20.4	26.0
				3	0	20.3	26.2
				3	1	20.3	26.2
				3	2	20.2	26.2
				6	0	19.4	25.7

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	21.4	25.2
				1	7	21.4	24.9
				1	14	21.4	25.3
				8	0	20.4	25.1
				8	4	20.4	25.1
				8	7	20.4	25.2
			16QAM	15	0	20.5	25.7
				1	0	20.6	25.4
				1	7	20.5	25.1
				1	14	20.6	25.3
				8	0	19.6	25.5
				8	4	19.6	25.2
				8	7	19.6	25.2
				15	0	19.5	26.4
				3.0	18900	1880.0	QPSK
1	7	21.3	25.8				
1	14	21.3	26.0				
8	0	20.3	25.6				
8	4	20.3	25.5				
8	7	20.3	25.6				
16QAM	15	0	20.5				25.9
	1	0	20.6				25.8
	1	7	20.5				25.9
	1	14	20.5				26.1
	8	0	19.6				25.5
	8	4	19.6				25.6
	8	7	19.6				25.6
	15	0	19.5				25.9
	3.0	19185	1908.5				QPSK
1				7	21.1	25.8	
1				14	21.2	26.0	
8				0	20.2	25.5	
8				4	20.1	25.4	
8				7	20.2	25.5	
16QAM				15	0	20.3	26.0
				1	0	20.4	26.1
				1	7	20.3	25.9
				1	14	20.5	26.1
				8	0	19.4	25.5
				8	4	19.4	25.5
				8	7	19.4	25.4
				15	0	19.3	25.9

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	21.4	25.7
				1	12	21.4	25.2
				1	24	21.4	25.5
				12	0	20.4	25.1
				12	6	20.4	25.2
				12	11	20.4	25.3
				25	0	20.5	25.7
			16QAM	1	0	20.5	24.9
				1	12	20.4	25.2
				1	24	20.5	25.5
				12	0	19.4	25.1
				12	6	19.3	25.2
				12	11	19.4	25.4
				25	0	19.5	25.5
5.0	18900	1880.0	QPSK	1	0	21.3	25.7
				1	12	21.3	25.8
				1	24	21.4	26.1
				12	0	20.4	25.5
				12	6	20.4	25.4
				12	11	20.4	25.5
				25	0	20.5	26.2
			16QAM	1	0	20.3	25.6
				1	12	20.4	25.7
				1	24	20.4	25.8
				12	0	19.3	25.5
				12	6	19.3	25.4
				12	11	19.3	25.5
				25	0	19.5	25.9
5.0	19175	1907.5	QPSK	1	0	21.3	26.0
				1	12	21.1	25.8
				1	24	21.2	26.0
				12	0	20.2	25.4
				12	6	19.9	25.0
				12	11	20.0	25.1
				25	0	20.3	26.0
			16QAM	1	0	20.2	25.7
				1	12	20.1	25.5
				1	24	20.1	25.6
				12	0	19.0	25.3
				12	6	19.1	25.2
				12	11	19.1	25.3
				25	0	19.1	25.6

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	21.3	24.8
				1	24	21.2	25.4
				1	49	21.2	26.0
				25	0	20.3	25.1
				25	12	20.3	25.4
				25	24	20.3	25.6
				50	0	20.3	25.5
			16QAM	1	0	20.5	25.3
				1	24	20.4	25.4
				1	49	20.5	26.0
				25	0	19.5	25.2
				25	12	19.6	25.4
				25	24	19.5	25.6
				50	0	19.4	25.6
10.0	18900	1880.0	QPSK	1	0	21.2	25.5
				1	24	21.2	25.8
				1	49	21.1	25.9
				25	0	20.3	25.5
				25	12	20.3	25.5
				25	24	20.3	25.7
				50	0	20.4	25.9
			16QAM	1	0	20.4	25.6
				1	24	20.4	25.8
				1	49	20.4	26.0
				25	0	19.6	25.5
				25	12	19.5	25.4
				25	24	19.6	25.7
				50	0	19.4	25.7
10.0	19150	1905.0	QPSK	1	0	21.1	25.4
				1	24	21.1	25.7
				1	49	21.1	25.8
				25	0	20.2	25.5
				25	12	20.2	25.4
				25	24	20.1	25.4
				50	0	20.3	25.5
			16QAM	1	0	20.3	25.5
				1	24	20.3	25.8
				1	49	20.2	25.8
				25	0	19.4	25.4
				25	12	19.4	25.5
				25	24	19.4	25.5
				50	0	19.3	26.1

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	21.4	25.5
				1	37	21.4	25.8
				1	74	21.4	25.9
				36	0	20.4	25.4
				36	16	20.4	25.5
				36	35	20.4	25.6
				75	0	20.5	25.9
			16-QAM	1	0	20.3	25.2
				1	37	20.3	25.9
				1	74	20.3	26.1
				36	0	19.5	25.4
				36	16	19.5	25.6
				36	35	19.5	25.6
				75	0	19.5	25.9
15.0	18900	1880.0	QPSK	1	0	21.3	25.6
				1	37	21.3	25.7
				1	74	21.2	25.9
				36	0	20.4	25.6
				36	16	20.3	25.4
				36	35	20.4	25.6
				75	0	20.5	26.1
			16-QAM	1	0	20.2	25.6
				1	37	20.3	25.9
				1	74	20.2	26.1
				36	0	19.5	25.5
				36	16	19.5	25.4
				36	35	19.5	25.6
				75	0	19.5	26.0
15.0	19125	1902.5	QPSK	1	0	21.3	25.7
				1	37	21.3	25.5
				1	74	21.2	25.8
				36	0	20.3	25.6
				36	16	20.2	25.5
				36	35	20.3	25.5
				75	0	20.4	26.0
			16-QAM	1	0	20.3	25.9
				1	37	20.2	25.6
				1	74	20.1	25.9
				36	0	19.5	25.5
				36	16	19.4	25.5
				36	35	19.4	25.6
				75	0	19.5	26.1

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	21.5	26.4
				1	49	21.5	26.2
				1	99	21.4	25.8
				50	0	20.5	25.5
				50	24	20.4	25.6
				50	49	20.4	25.7
				100	0	20.4	25.5
			16-QAM	1	0	20.6	24.8
				1	49	20.5	25.8
				1	99	20.5	25.7
				50	0	19.5	25.6
				50	24	19.4	25.6
				50	49	19.4	25.7
				100	0	19.5	25.7
20.0	18900	1880.0	QPSK	1	0	21.5	25.7
				1	49	21.4	25.8
				1	99	21.3	26.3
				50	0	20.4	25.6
				50	24	20.3	25.5
				50	49	20.4	25.8
				100	0	20.3	26.2
			16-QAM	1	0	20.6	25.7
				1	49	20.5	25.6
				1	99	20.4	25.9
				50	0	19.5	25.6
				50	24	19.4	25.5
				50	49	19.5	25.8
				100	0	19.5	26.0
20.0	19100	1900.0	QPSK	1	0	21.4	26.3
				1	49	21.3	25.4
				1	99	21.2	26.0
				50	0	20.3	25.7
				50	24	20.3	25.6
				50	49	20.2	25.6
				100	0	20.3	26.1
			16-QAM	1	0	20.4	25.9
				1	49	20.4	25.4
				1	99	20.2	25.6
				50	0	19.4	25.7
				50	24	19.3	25.4
				50	49	19.3	25.6
				100	0	19.4	25.8

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	23.3	27.9
				1	2	23.2	27.2
				1	5	23.3	28.0
				3	0	23.3	27.8
				3	1	23.1	26.8
				3	2	23.1	26.9
			16QAM	6	0	22.4	27.6
				1	0	22.3	26.6
				1	2	22.3	26.6
				1	5	22.3	26.6
				3	0	22.1	26.8
				3	1	22.0	26.7
				3	2	22.0	26.7
				6	0	21.4	27.5
1.4	20175	1732.5	QPSK	1	0	23.2	27.7
				1	2	23.2	27.7
				1	5	23.2	27.7
				3	0	23.3	27.9
				3	1	23.2	27.8
				3	2	23.2	27.8
			16QAM	6	0	22.3	27.9
				1	0	22.4	27.7
				1	2	22.4	27.7
				1	5	22.4	27.8
				3	0	22.3	27.9
				3	1	22.2	27.9
				3	2	22.2	27.9
				6	0	21.3	27.5
1.4	20393	1754.3	QPSK	1	0	23.2	27.3
				1	2	23.1	27.3
				1	5	23.1	27.3
				3	0	23.1	27.5
				3	1	23.1	27.5
				3	2	23.1	27.5
			16QAM	6	0	22.2	27.5
				1	0	22.1	27.3
				1	2	22.1	27.3
				1	5	22.1	27.3
				3	0	22.2	27.5
				3	1	22.2	27.4
				3	2	22.1	27.4
				6	0	21.3	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	23.4	27.3
				1	7	23.2	26.7
				1	14	23.3	28.0
				8	0	22.2	26.9
				8	4	22.2	26.8
				8	7	22.2	27.2
				15	0	22.3	27.3
			16QAM	1	0	22.5	26.9
				1	7	22.4	27.1
				1	14	22.4	27.6
				8	0	21.4	26.9
				8	4	21.5	27.4
				8	7	21.4	27.4
				15	0	21.3	27.3
3.0	20175	1732.5	QPSK	1	0	23.2	27.8
				1	7	23.1	27.7
				1	14	23.2	27.8
				8	0	22.2	27.4
				8	4	22.2	27.3
				8	7	22.2	27.4
				15	0	22.4	27.9
			16QAM	1	0	22.4	27.8
				1	7	22.4	27.7
				1	14	22.4	27.9
				8	0	21.4	27.4
				8	4	21.4	27.3
				8	7	21.4	27.4
				15	0	21.3	27.8
3.0	20385	1753.5	QPSK	1	0	23.3	27.4
				1	7	23.2	27.3
				1	14	23.2	27.3
				8	0	22.2	27.2
				8	4	22.3	27.2
				8	7	22.2	27.1
				15	0	22.3	27.6
			16QAM	1	0	22.2	27.4
				1	7	22.1	27.3
				1	14	22.3	27.3
				8	0	21.3	27.1
				8	4	21.3	27.0
				8	7	21.3	27.1
				15	0	21.3	27.5

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	26.7
				1	12	23.3	27.7
				1	24	23.3	28.0
				12	0	22.3	26.9
				12	6	22.3	27.0
				12	11	22.3	27.3
				25	0	22.4	27.9
			16QAM	1	0	22.4	26.7
				1	12	22.3	26.5
				1	24	22.3	26.6
				12	0	21.2	26.9
				12	6	21.3	27.2
				12	11	21.3	27.4
				25	0	21.3	27.5
5.0	20175	1732.5	QPSK	1	0	23.2	27.7
				1	12	23.1	27.7
				1	24	23.2	27.9
				12	0	22.2	27.3
				12	6	22.2	27.2
				12	11	22.2	27.2
				25	0	22.3	27.8
			16QAM	1	0	22.4	27.7
				1	12	22.3	27.5
				1	24	22.2	27.5
				12	0	21.2	27.4
				12	6	21.2	27.2
				12	11	21.2	27.3
				25	0	21.2	27.6
5.0	20375	1752.5	QPSK	1	0	23.2	27.5
				1	12	23.1	27.3
				1	24	23.1	27.3
				12	0	22.1	27.1
				12	6	22.1	27.0
				12	11	22.3	27.2
				25	0	22.2	27.6
			16QAM	1	0	22.3	27.5
				1	12	22.3	27.4
				1	24	22.3	27.4
				12	0	21.1	27.1
				12	6	21.1	27.1
				12	11	21.1	27.2
				25	0	21.2	27.5

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	26.7
				1	24	23.2	27.7
				1	49	23.2	26.9
				25	0	22.4	27.5
				25	12	22.3	27.4
				25	24	22.3	27.6
				50	0	22.5	28.0
			16QAM	1	0	22.4	27.0
				1	24	22.4	27.4
				1	49	22.4	26.9
				25	0	21.4	27.0
				25	12	21.4	27.4
				25	24	21.5	27.5
				50	0	21.4	27.7
10.0	20175	1732.5	QPSK	1	0	23.2	27.6
				1	24	23.2	27.8
				1	49	23.1	27.7
				25	0	22.3	27.5
				25	12	22.2	27.3
				25	24	22.2	27.5
				50	0	22.4	28.0
			16QAM	1	0	22.4	27.7
				1	24	22.3	27.8
				1	49	22.3	27.7
				25	0	21.4	27.4
				25	12	21.5	27.3
				25	24	21.5	27.4
				50	0	21.2	27.5
10.0	20350	1750.0	QPSK	1	0	23.2	27.7
				1	24	23.0	27.5
				1	49	23.1	27.4
				25	0	22.2	27.2
				25	12	22.1	27.1
				25	24	22.2	27.4
				50	0	22.2	27.9
			16QAM	1	0	22.3	27.7
				1	24	22.3	27.5
				1	49	22.3	27.4
				25	0	21.3	27.2
				25	12	21.3	27.0
				25	24	21.3	27.2
				50	0	21.1	27.7

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	23.4	27.3
				1	37	23.3	27.8
				1	74	23.3	27.2
				36	0	22.4	27.7
				36	16	22.3	27.5
				36	35	22.4	27.1
				75	0	22.4	28.1
			16-QAM	1	0	22.3	26.9
				1	37	22.2	27.6
				1	74	22.2	27.2
				36	0	21.4	27.5
				36	16	21.4	27.4
				36	35	21.3	27.1
				75	0	21.5	28.2
15.0	20175	1732.5	QPSK	1	0	23.4	27.5
				1	37	23.3	27.7
				1	74	23.2	27.6
				36	0	22.3	27.5
				36	16	22.3	27.3
				36	35	22.3	27.3
				75	0	22.4	27.9
			16-QAM	1	0	22.3	27.5
				1	37	22.2	27.8
				1	74	22.1	27.7
				36	0	21.4	27.5
				36	16	21.3	27.2
				36	35	21.3	27.2
				75	0	21.4	27.8
15.0	20325	1747.5	QPSK	1	0	23.3	27.6
				1	37	23.2	27.4
				1	74	23.1	27.3
				36	0	22.2	27.3
				36	16	22.2	27.1
				36	35	22.1	27.1
				75	0	22.3	27.7
			16-QAM	1	0	22.1	27.7
				1	37	22.1	27.6
				1	74	22.0	27.4
				36	0	21.2	27.1
				36	16	21.2	27.0
				36	35	21.2	27.0
				75	0	21.2	27.7

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	23.4	27.5
				1	49	23.4	27.4
				1	99	23.3	27.6
				50	0	22.4	27.7
				50	24	22.3	27.0
				50	49	22.3	27.3
				100	0	22.3	28.2
			16-QAM	1	0	22.5	26.6
				1	49	22.5	26.9
				1	99	22.4	27.6
				50	0	21.3	27.5
				50	24	21.3	27.1
				50	49	21.3	27.2
				100	0	21.5	27.8
20.0	20175	1732.5	QPSK	1	0	23.4	27.2
				1	49	23.4	27.8
				1	99	23.3	27.8
				50	0	22.4	27.5
				50	24	22.3	27.5
				50	49	22.3	27.5
				100	0	22.4	27.6
			16-QAM	1	0	22.5	27.2
				1	49	22.4	27.5
				1	99	22.4	27.5
				50	0	21.4	27.5
				50	24	21.3	27.3
				50	49	21.2	27.4
				100	0	21.4	27.8
20.0	20300	1745.0	QPSK	1	0	23.4	27.9
				1	49	23.3	27.7
				1	99	23.3	27.3
				50	0	22.3	27.5
				50	24	22.2	27.2
				50	49	22.2	27.3
				100	0	22.2	27.4
			16-QAM	1	0	22.4	27.6
				1	49	22.3	27.3
				1	99	22.3	27.4
				50	0	21.2	27.3
				50	24	21.2	27.0
				50	49	21.1	27.2
				100	0	21.3	27.5

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	28.3
				1	2	23.5	28.1
				1	5	23.6	28.3
				3	0	23.7	28.6
				3	1	23.7	28.5
				3	2	23.7	28.5
			16QAM	6	0	22.7	28.3
				1	0	22.9	28.3
				1	2	22.8	28.2
				1	5	22.9	28.4
				3	0	22.8	28.6
				3	1	22.8	28.6
				3	2	22.8	28.6
				6	0	21.8	28.0
1.4	20525	836.5	QPSK	1	0	23.7	28.4
				1	2	23.6	28.2
				1	5	23.6	28.3
				3	0	23.6	28.4
				3	1	23.5	28.4
				3	2	23.6	28.4
			16QAM	6	0	22.7	27.9
				1	0	22.8	28.2
				1	2	22.7	28.0
				1	5	22.7	28.1
				3	0	22.5	28.4
				3	1	22.5	28.3
				3	2	22.5	28.3
				6	0	21.8	27.9
1.4	20643	848.3	QPSK	1	0	23.5	28.3
				1	2	23.4	28.1
				1	5	23.5	28.3
				3	0	23.6	28.5
				3	1	23.5	28.5
				3	2	23.5	28.5
			16QAM	6	0	22.6	28.0
				1	0	22.6	28.4
				1	2	22.6	28.3
				1	5	22.6	28.5
				3	0	22.6	28.6
				3	1	22.6	28.4
				3	2	22.6	28.5
				6	0	21.7	28.0

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	28.3
				1	7	23.6	28.1
				1	14	23.6	28.3
				8	0	22.7	27.9
				8	4	22.7	27.8
				8	7	22.7	27.9
				15	0	22.7	28.2
			16QAM	1	0	22.9	28.5
				1	7	22.8	28.2
				1	14	22.9	28.3
				8	0	21.8	27.8
				8	4	21.8	27.6
				8	7	21.8	27.7
				15	0	21.8	28.2
3.0	20525	836.5	QPSK	1	0	23.6	28.3
				1	7	23.6	28.1
				1	14	23.6	28.3
				8	0	22.7	27.8
				8	4	22.7	27.6
				8	7	22.7	27.9
				15	0	22.7	28.4
			16QAM	1	0	22.9	28.3
				1	7	22.8	28.2
				1	14	22.9	28.3
				8	0	21.8	27.6
				8	4	21.7	27.5
				8	7	21.8	27.7
				15	0	21.7	28.2
3.0	20635	847.5	QPSK	1	0	23.6	28.4
				1	7	23.5	28.2
				1	14	23.6	28.4
				8	0	22.7	27.8
				8	4	22.6	27.7
				8	7	22.6	27.7
				15	0	22.6	28.4
			16QAM	1	0	22.7	27.8
				1	7	22.6	27.8
				1	14	22.7	28.2
				8	0	21.7	27.4
				8	4	21.7	27.4
				8	7	21.7	27.4
				15	0	21.7	28.0

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	28.4
				1	12	23.6	28.1
				1	24	23.6	28.4
				12	0	22.8	27.9
				12	6	22.8	27.7
				12	11	22.7	27.7
				25	0	22.7	28.2
			16QAM	1	0	22.9	28.2
				1	12	22.8	27.9
				1	24	22.8	27.9
				12	0	21.7	27.8
				12	6	21.6	27.6
				12	11	21.6	27.7
				25	0	21.7	28.0
5.0	20525	836.5	QPSK	1	0	23.6	28.4
				1	12	23.6	28.1
				1	24	23.6	28.3
				12	0	22.7	27.8
				12	6	22.7	27.7
				12	11	22.7	27.7
				25	0	22.7	28.2
			16QAM	1	0	22.8	28.1
				1	12	22.7	27.9
				1	24	22.8	28.1
				12	0	21.6	27.6
				12	6	21.5	27.5
				12	11	21.5	27.5
				25	0	21.7	28.2
5.0	20625	846.5	QPSK	1	0	23.7	28.1
				1	12	23.6	28.2
				1	24	23.6	28.3
				12	0	22.6	27.9
				12	6	22.6	27.6
				12	11	22.7	27.7
				25	0	22.7	28.4
			16QAM	1	0	22.4	28.1
				1	12	22.4	27.7
				1	24	22.4	28.1
				12	0	21.6	27.6
				12	6	21.6	27.4
				12	11	21.6	27.4
				25	0	21.7	28.0

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	28.2
				1	24	23.6	28.1
				1	49	23.6	28.2
				25	0	22.7	27.8
				25	12	22.7	27.9
				25	24	22.7	27.9
				50	0	22.7	28.6
			16QAM	1	0	22.9	28.3
				1	24	22.8	28.2
				1	49	22.9	28.3
				25	0	21.9	27.8
				25	12	21.8	27.8
				25	24	21.8	27.7
				50	0	21.7	27.8
10.0	20525	836.5	QPSK	1	0	23.6	28.1
				1	24	23.6	28.1
				1	49	23.5	28.1
				25	0	22.7	27.9
				25	12	22.7	27.7
				25	24	22.7	27.9
				50	0	22.8	28.2
			16QAM	1	0	22.8	28.2
				1	24	22.9	28.3
				1	49	22.8	28.2
				25	0	21.9	27.8
				25	12	21.8	27.6
				25	24	21.8	27.7
				50	0	21.7	28.1
10.0	20600	844.0	QPSK	1	0	23.6	28.1
				1	24	23.5	28.2
				1	49	23.5	28.1
				25	0	22.7	27.8
				25	12	22.7	27.8
				25	24	22.7	27.9
				50	0	22.7	28.5
			16QAM	1	0	22.5	27.8
				1	24	22.4	27.9
				1	49	22.4	27.7
				25	0	21.6	27.6
				25	12	21.7	27.6
				25	24	21.6	27.5
				50	0	21.6	28.1

7.2.4. 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	28.2
				1	2	23.6	28.0
				1	5	23.6	28.2
				3	0	23.7	28.4
				3	1	23.7	28.3
				3	2	23.7	28.3
			16QAM	6	0	22.7	28.1
				1	0	22.9	28.2
				1	2	22.8	28.0
				1	5	22.9	28.2
				3	0	22.8	28.5
				3	1	22.7	28.3
				3	2	22.7	28.3
				6	0	21.7	27.7
1.4	23095	707.5	QPSK	1	0	23.7	28.3
				1	2	23.6	27.8
				1	5	23.7	28.3
				3	0	23.7	28.7
				3	1	23.7	28.5
				3	2	23.7	28.4
			16QAM	6	0	22.8	28.4
				1	0	22.9	28.4
				1	2	22.8	27.9
				1	5	22.9	28.4
				3	0	22.8	28.8
				3	1	22.8	28.6
				3	2	22.7	28.5
				6	0	21.7	28.0
1.4	23173	715.3	QPSK	1	0	23.6	28.4
				1	2	23.6	28.3
				1	5	23.7	28.4
				3	0	23.7	28.7
				3	1	23.7	28.7
				3	2	23.7	28.6
			16QAM	6	0	22.7	28.3
				1	0	22.9	28.5
				1	2	22.8	28.3
				1	5	22.9	28.4
				3	0	22.8	28.8
				3	1	22.8	28.8
				3	2	22.7	28.7
				6	0	21.7	28.1

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	23.7	28.2
				1	7	23.5	27.9
				1	14	23.6	28.3
				8	0	22.7	27.8
				8	4	22.6	27.5
				8	7	22.7	27.6
				15	0	22.7	27.9
			16QAM	1	0	22.5	27.8
				1	7	22.5	27.6
				1	14	22.5	27.7
				8	0	21.7	27.2
				8	4	21.7	27.0
				8	7	21.7	27.2
				15	0	21.7	27.7
3.0	23095	707.5	QPSK	1	0	23.6	27.2
				1	7	23.6	28.1
				1	14	23.5	28.2
				8	0	22.7	27.8
				8	4	22.7	27.8
				8	7	22.7	27.8
				15	0	22.7	28.1
			16QAM	1	0	22.6	27.1
				1	7	22.5	26.8
				1	14	22.4	26.8
				8	0	21.8	27.2
				8	4	21.7	27.0
				8	7	21.7	27.0
				15	0	21.7	27.9
3.0	23165	714.5	QPSK	1	0	23.6	28.3
				1	7	23.6	28.2
				1	14	23.6	28.4
				8	0	22.7	28.0
				8	4	22.7	27.8
				8	7	22.7	27.9
				15	0	22.7	28.4
			16QAM	1	0	22.9	28.4
				1	7	22.8	28.3
				1	14	22.9	28.5
				8	0	21.8	27.8
				8	4	21.8	27.7
				8	7	21.8	27.8
				15	0	21.8	28.2

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	23.7	28.2
				1	12	23.6	28.1
				1	24	23.7	28.4
				12	0	22.7	27.7
				12	6	22.8	27.6
				12	11	22.7	27.7
			16QAM	25	0	22.8	27.8
				1	0	22.5	27.9
				1	12	22.3	27.2
				1	24	22.4	27.8
				12	0	21.7	27.4
				12	6	21.7	27.4
				12	11	21.7	27.4
				25	0	21.8	27.8
5.0	23095	707.5	QPSK	1	0	23.6	28.4
				1	12	23.6	28.1
				1	24	23.6	28.2
				12	0	22.7	27.8
				12	6	22.7	27.7
				12	11	22.7	27.6
			16QAM	25	0	22.7	27.9
				1	0	22.7	27.1
				1	12	22.7	26.8
				1	24	22.7	27.2
				12	0	21.5	27.1
				12	6	21.6	27.6
				12	11	21.5	27.6
				25	0	21.7	27.9
5.0	23155	713.5	QPSK	1	0	23.7	28.4
				1	12	23.6	28.1
				1	24	23.6	28.5
				12	0	22.7	27.7
				12	6	22.7	27.7
				12	11	22.7	27.7
			16QAM	25	0	22.7	28.1
				1	0	22.8	28.1
				1	12	22.8	28.0
				1	24	22.8	28.3
				12	0	21.6	27.7
				12	6	21.5	27.5
				12	11	21.5	27.6
				25	0	21.7	27.9

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	28.0
				1	24	23.5	27.5
				1	49	23.6	27.4
				25	0	22.6	27.7
				25	12	22.7	27.8
				25	24	22.8	28.0
			16QAM	50	0	22.8	28.7
				1	0	22.8	28.0
				1	24	22.7	27.7
				1	49	22.8	27.4
				25	0	21.8	27.5
				25	12	21.8	27.7
				25	24	21.8	27.2
				50	0	21.7	28.5
10.0	23095	707.5	QPSK	1	0	23.5	28.1
				1	24	23.6	27.6
				1	49	23.6	28.2
				25	0	22.8	27.9
				25	12	22.8	27.8
				25	24	22.7	27.7
			16QAM	50	0	22.7	27.2
				1	0	22.9	28.1
				1	24	22.8	27.7
				1	49	22.8	28.3
				25	0	21.8	27.2
				25	12	21.8	27.1
				25	24	21.8	27.8
				50	0	21.7	28.5
10.0	23130	711.0	QPSK	1	0	23.6	27.1
				1	24	23.6	28.1
				1	49	23.6	28.2
				25	0	22.8	27.9
				25	12	22.7	27.7
				25	24	22.7	27.8
			16QAM	50	0	22.8	28.9
				1	0	22.8	27.3
				1	24	22.8	28.2
				1	49	22.8	28.3
				25	0	21.8	27.8
				25	12	21.8	27.6
				25	24	21.8	27.8
				50	0	21.7	28.2

7.2.5. LTE BAND 13

OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23207	779.5	QPSK	1	0	23.7	27.6
				1	12	23.6	27.7
				1	24	23.6	28.0
				12	0	22.8	27.9
				12	6	22.8	27.8
				12	11	22.8	27.9
				25	0	22.8	27.8
			16QAM	1	0	22.8	27.7
				1	12	22.8	27.8
				1	24	22.8	28.0
				12	0	21.7	28.0
				12	6	21.6	27.8
				12	11	21.6	27.8
				25	0	21.7	27.8
5.0	23230	782.0	QPSK	1	0	23.6	27.7
				1	12	23.5	28.1
				1	24	23.5	27.9
				12	0	22.7	27.9
				12	6	22.6	27.7
				12	11	22.6	27.7
				25	0	22.6	27.8
			16QAM	1	0	22.7	27.7
				1	12	22.6	28.0
				1	24	22.7	28.0
				12	0	21.5	27.8
				12	6	21.5	27.6
				12	11	21.4	27.6
				25	0	21.7	27.8
5.0	23255	784.5	QPSK	1	0	23.6	28.1
				1	12	23.5	28.2
				1	24	23.6	28.4
				12	0	22.6	27.9
				12	6	22.6	27.9
				12	11	22.6	27.8
				25	0	22.6	27.9
			16QAM	1	0	22.4	28.1
				1	12	22.3	27.8
				1	24	22.4	28.2
				12	0	21.6	27.7
				12	6	21.6	27.6
				12	11	21.6	27.5
				25	0	21.7	27.8

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23230	782.0	QPSK	1	0	23.7	28.2
				1	24	23.6	28.2
				1	49	23.6	28.3
				25	0	22.7	28.0
				25	12	22.8	28.0
				25	24	22.7	28.2
				50	0	22.8	28.2
			16QAM	1	0	22.9	28.2
				1	24	22.8	28.2
				1	49	22.9	28.4
				25	0	21.9	28.1
				25	12	21.8	27.9
				25	24	21.8	28.1
				50	0	21.8	28.3

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	27.7
				1	12	23.6	27.9
				1	24	23.6	27.5
				12	0	22.7	27.8
				12	6	22.6	27.7
				12	11	22.6	27.7
			16QAM	25	0	22.7	27.9
				1	0	22.8	27.8
				1	12	22.7	28.0
				1	24	22.7	27.5
				12	0	21.5	27.8
				12	6	21.5	27.6
				12	11	21.5	27.7
				25	0	21.6	27.7
5.0	23790	710.0	QPSK	1	0	23.6	27.6
				1	12	23.6	27.4
				1	24	23.6	28.4
				12	0	22.6	27.5
				12	6	22.6	27.5
				12	11	22.7	27.4
			16QAM	25	0	22.6	27.5
				1	0	22.7	27.6
				1	12	22.7	27.4
				1	24	22.7	27.2
				12	0	21.5	27.6
				12	6	21.5	27.5
				12	11	21.5	27.4
				25	0	21.6	27.5
5.0	23825	713.5	QPSK	1	0	23.5	28.4
				1	12	23.6	27.5
				1	24	23.6	27.3
				12	0	22.7	27.4
				12	6	22.6	27.6
				12	11	22.7	27.6
			16QAM	25	0	22.7	27.6
				1	0	22.7	27.2
				1	12	22.7	27.6
				1	24	22.7	27.4
				12	0	21.5	27.5
				12	6	21.5	27.6
				12	11	21.5	27.6
				25	0	21.6	27.6

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	28.0
				1	24	23.5	27.6
				1	49	23.6	27.6
				25	0	22.6	27.8
				25	12	22.6	27.7
				25	24	22.6	27.5
				50	0	22.7	28.2
			16QAM	1	0	22.8	28.0
				1	24	22.7	27.6
				1	49	22.7	27.6
				25	0	21.7	27.8
				25	12	21.7	27.6
				25	24	21.7	27.5
				50	0	21.7	27.8
10.0	23790	710.0	QPSK	1	0	23.6	28.0
				1	24	23.6	27.3
				1	49	23.5	27.5
				25	0	22.7	27.6
				25	12	22.7	27.5
				25	24	22.7	27.6
				50	0	22.7	28.1
			16QAM	1	0	22.8	28.0
				1	24	22.8	27.3
				1	49	22.7	27.6
				25	0	21.8	27.6
				25	12	21.7	27.5
				25	24	21.7	27.6
				50	0	21.6	28.0
10.0	23800	711.0	QPSK	1	0	23.5	28.1
				1	24	23.5	27.4
				1	49	23.5	27.6
				25	0	22.7	27.7
				25	12	22.6	27.6
				25	24	22.6	27.6
				50	0	22.7	28.0
			16QAM	1	0	22.8	28.0
				1	24	22.7	27.4
				1	49	22.8	27.6
				25	0	21.8	27.7
				25	12	21.7	27.6
				25	24	21.7	27.6
				50	0	21.6	28.1

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	20.9	25.8
				1	2	20.9	24.5
				1	5	20.9	25.4
				3	0	21.0	26.1
				3	1	21.0	25.7
				3	2	21.0	25.1
			16QAM	6	0	20.0	25.7
				1	0	20.1	25.5
				1	2	20.0	24.6
				1	5	20.1	25.2
				3	0	20.0	26.0
				3	1	19.9	25.0
				3	2	19.9	24.7
				6	0	19.0	25.0
1.4	26365	1882.5	QPSK	1	0	21.0	25.7
				1	2	20.9	25.7
				1	5	20.8	25.7
				3	0	20.9	25.8
				3	1	21.0	25.8
				3	2	21.0	25.8
			16QAM	6	0	20.0	25.7
				1	0	20.1	25.8
				1	2	20.1	25.7
				1	5	20.0	25.7
				3	0	20.0	25.8
				3	1	20.0	25.9
				3	2	20.0	25.8
				6	0	19.0	25.6
1.4	26683	1914.3	QPSK	1	0	20.7	24.8
				1	2	20.7	24.6
				1	5	20.7	24.6
				3	0	20.8	25.0
				3	1	20.7	24.9
				3	2	20.8	24.9
			16QAM	6	0	19.8	25.1
				1	0	19.8	24.8
				1	2	19.8	24.7
				1	5	19.9	24.6
				3	0	19.8	24.9
				3	1	19.7	24.8
				3	2	19.8	24.9
				6	0	18.8	25.0

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	20.9	24.6
				1	7	20.9	24.5
				1	14	20.9	24.9
				8	0	19.8	24.7
				8	4	19.9	24.8
				8	7	19.9	24.8
				15	0	20.0	25.1
			16QAM	1	0	20.1	25.2
				1	7	20.0	24.5
				1	14	20.1	24.9
				8	0	19.1	24.9
				8	4	19.1	24.7
				8	7	19.1	24.8
				15	0	19.0	25.2
3.0	26365	1882.5	QPSK	1	0	20.9	25.7
				1	7	20.7	25.5
				1	14	20.8	25.7
				8	0	19.9	25.2
				8	4	19.9	25.2
				8	7	19.8	25.2
				15	0	20.0	25.5
			16QAM	1	0	20.1	25.7
				1	7	19.9	25.6
				1	14	20.0	25.8
				8	0	19.1	25.2
				8	4	19.1	25.3
				8	7	19.0	25.2
				15	0	19.0	25.8
3.0	26675	1913.5	QPSK	1	0	20.7	25.3
				1	7	20.6	24.8
				1	14	20.7	24.6
				8	0	19.7	25.0
				8	4	19.7	24.8
				8	7	19.6	24.8
				15	0	19.8	25.3
			16QAM	1	0	19.9	25.3
				1	7	19.8	24.8
				1	14	19.8	24.7
				8	0	18.9	25.0
				8	4	19.0	24.9
				8	7	19.0	24.9
				15	0	19.0	25.2

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	20.9	24.8
				1	12	20.9	24.8
				1	24	20.9	25.2
				12	0	19.9	24.7
				12	6	19.9	24.9
				12	11	19.9	24.9
			25	0	20.0	25.2	
			16QAM	1	0	20.0	24.5
				1	12	20.0	24.8
				1	24	20.0	25.2
				12	0	18.9	24.7
				12	6	18.9	24.9
				12	11	18.8	25.0
				25	0	19.0	25.3
5.0	26365	1882.5		QPSK	1	0	20.9
			1		12	20.8	25.5
			1		24	20.8	25.8
			12		0	19.9	25.2
			12		6	19.9	25.1
			12		11	19.8	25.0
			25	0	20.0	25.8	
			16QAM	1	0	20.0	25.5
				1	12	19.9	25.4
				1	24	19.9	25.5
				12	0	18.9	25.2
				12	6	18.8	25.0
				12	11	18.9	25.3
				25	0	19.0	25.6
5.0	26665	1912.5		QPSK	1	0	20.7
			1		12	20.6	25.1
			1		24	20.7	24.6
			12		0	19.6	24.8
			12		6	19.6	24.7
			12		11	19.6	24.7
			25	0	19.8	25.4	
			16QAM	1	0	19.8	25.3
				1	12	19.8	25.1
				1	24	19.7	24.6
				12	0	18.7	25.0
				12	6	18.7	24.9
				12	11	18.8	24.9
				25	0	18.8	25.3

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	20.9	24.6
				1	24	20.8	25.1
				1	49	20.7	25.6
				25	0	19.9	24.9
				25	12	20.0	25.1
				25	24	19.9	25.3
				50	0	19.9	25.1
			16QAM	1	0	20.1	24.9
				1	24	20.1	25.2
				1	49	19.9	25.6
				25	0	19.1	24.9
				25	12	19.1	25.1
				25	24	19.1	25.3
				50	0	19.0	25.3
10.0	26365	1882.5	QPSK	1	0	20.8	25.3
				1	24	20.8	25.6
				1	49	20.6	25.6
				25	0	19.9	25.2
				25	12	19.9	25.3
				25	24	19.7	25.2
				50	0	19.9	25.9
			16QAM	1	0	19.9	25.4
				1	24	20.1	25.7
				1	49	19.9	25.7
				25	0	19.1	25.2
				25	12	19.1	25.2
				25	24	19.1	25.4
				50	0	19.0	25.9
10.0	26640	1910.0	QPSK	1	0	20.6	25.5
				1	24	20.6	25.4
				1	49	20.6	24.6
				25	0	19.6	25.0
				25	12	19.7	24.9
				25	24	19.6	24.8
				50	0	19.8	25.3
			16QAM	1	0	19.4	25.1
				1	24	19.4	25.0
				1	49	19.4	24.7
				25	0	18.8	25.0
				25	12	18.8	24.9
				25	24	18.8	24.9
				50	0	18.8	25.6

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	20.9	24.5
				1	37	20.8	25.5
				1	74	20.9	25.8
				36	0	20.0	25.0
				36	16	20.0	25.2
				36	35	20.0	25.2
				75	0	20.0	25.6
			16-QAM	1	0	19.9	24.6
				1	37	19.8	25.4
				1	74	19.9	25.4
				36	0	19.0	25.1
				36	16	19.0	25.1
				36	35	19.0	25.2
				75	0	19.1	25.6
15.0	26365	1882.5	QPSK	1	0	20.9	25.3
				1	37	20.8	25.5
				1	74	20.7	25.5
				36	0	20.0	25.3
				36	16	19.9	25.2
				36	35	19.8	25.1
				75	0	19.9	25.7
			16-QAM	1	0	19.8	25.3
				1	37	19.7	25.6
				1	74	19.6	25.7
				36	0	19.0	25.2
				36	16	19.0	25.2
				36	35	19.0	25.2
				75	0	19.0	25.7
15.0	26615	1907.5	QPSK	1	0	20.9	25.2
				1	37	20.8	25.4
				1	74	20.7	24.6
				36	0	19.8	25.2
				36	16	19.6	24.9
				36	35	19.7	24.9
				75	0	19.8	25.5
			16-QAM	1	0	19.8	25.2
				1	37	19.6	25.5
				1	74	19.6	24.7
				36	0	19.0	25.2
				36	16	18.9	25.1
				36	35	18.9	25.0
				75	0	18.9	25.6

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	20.9	25.5
				1	49	20.8	25.6
				1	99	20.9	25.5
				50	0	20.0	25.2
				50	24	20.0	25.2
				50	49	19.9	25.3
			16-QAM	100	0	20.0	25.7
				1	0	20.0	24.5
				1	49	19.9	25.3
				1	99	20.0	25.4
				50	0	19.1	25.3
				50	24	19.1	25.2
				50	49	19.0	25.3
				100	0	19.1	25.7
20.0	26365	1882.5	QPSK	1	0	21.0	25.2
				1	49	21.0	25.7
				1	99	20.9	25.9
				50	0	20.0	25.3
				50	24	19.9	25.4
				50	49	19.8	25.3
			16-QAM	100	0	19.8	25.5
				1	0	20.0	25.2
				1	49	20.0	25.4
				1	99	19.9	25.5
				50	0	19.0	25.2
				50	24	19.0	25.3
				50	49	18.9	25.3
				100	0	19.0	25.5
20.0	26590	1905.0	QPSK	1	0	20.8	25.5
				1	49	20.7	25.5
				1	99	20.7	24.6
				50	0	19.9	25.3
				50	24	19.7	25.0
				50	49	19.6	25.0
			16-QAM	100	0	19.8	25.8
				1	0	20.0	25.4
				1	49	19.7	25.1
				1	99	19.8	24.7
				50	0	18.9	25.3
				50	24	18.9	25.1
				50	49	18.8	25.2
				100	0	18.9	25.7

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	23.2	27.6
				1	2	23.4	27.7
				1	5	23.4	27.9
				3	0	23.3	27.9
				3	1	23.4	27.9
				3	2	23.5	27.9
			16QAM	6	0	22.4	27.8
				1	0	22.5	27.6
				1	2	22.6	27.7
				1	5	22.6	27.9
				3	0	22.3	27.9
				3	1	22.4	27.9
				3	2	22.5	28.0
				6	0	21.5	27.8
1.4	26740	819.0	QPSK	1	0	23.7	28.1
				1	2	23.6	28.1
				1	5	23.6	28.1
				3	0	23.7	28.3
				3	1	23.6	28.3
				3	2	23.6	28.3
			16QAM	6	0	22.7	28.1
				1	0	22.7	28.1
				1	2	22.7	28.2
				1	5	22.7	28.2
				3	0	22.7	28.2
				3	1	22.7	28.2
				3	2	22.6	28.2
				6	0	21.9	28.2
1.4	26783	823.3	QPSK	1	0	23.6	28.3
				1	2	23.6	28.2
				1	5	23.6	28.2
				3	0	23.6	28.5
				3	1	23.6	28.4
				3	2	23.6	28.4
			16QAM	6	0	22.7	28.0
				1	0	22.7	28.4
				1	2	22.6	28.3
				1	5	22.6	28.2
				3	0	22.7	28.5
				3	1	22.6	28.4
				3	2	22.6	28.4
				6	0	21.8	28.1

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	23.7	28.3			
				1	7	23.6	28.2			
				1	14	23.6	28.3			
				8	0	22.7	27.8			
				8	4	22.7	27.7			
				8	7	22.7	27.8			
			16QAM	15	0	22.7	28.2			
				1	0	22.8	28.1			
				1	7	22.7	28.0			
				1	14	22.7	28.1			
				8	0	21.7	27.6			
				8	4	21.7	27.5			
			3.0	26740	819.0	QPSK	8	7	21.7	27.6
							15	0	21.7	28.0
							1	0	23.6	28.2
1	7	23.6					28.1			
1	14	23.6					28.2			
8	0	22.7					27.9			
16QAM	8	4				22.7	27.8			
	8	7				22.7	27.9			
	1	0				22.9	28.2			
	1	7				22.8	28.1			
	1	14				22.9	28.2			
	8	0				21.8	27.7			
3.0	26775	822.5				QPSK	8	4	21.8	27.6
							8	7	21.8	27.7
							15	0	21.8	28.4
			1	0	23.6		28.2			
			1	7	23.6		28.1			
			1	14	23.6		28.2			
			16QAM	8	0	22.7	27.9			
				8	4	22.6	27.7			
				8	7	22.7	27.9			
				15	0	22.7	28.3			
				1	0	22.9	28.2			
				1	7	22.8	28.1			
			16QAM	1	14	22.8	28.3			
				8	0	21.8	27.8			
				8	4	21.7	27.6			
8	7	21.8		27.7						
15	0	21.7		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	23.2	27.6
				1	12	23.7	28.0
				1	24	23.7	28.1
				12	0	22.5	27.5
				12	6	22.7	27.7
				12	11	22.8	27.8
				25	0	22.6	28.0
			16QAM	1	0	22.8	27.6
				1	12	22.7	28.0
				1	24	22.8	28.0
				12	0	21.4	27.6
				12	6	21.7	27.7
				12	11	21.6	27.7
				25	0	21.6	27.9
5.0	26740	819.0	QPSK	1	0	23.7	28.1
				1	12	23.6	28.1
				1	24	23.7	28.2
				12	0	22.7	27.9
				12	6	22.7	27.8
				12	11	22.7	27.8
				25	0	22.7	28.4
			16QAM	1	0	22.5	28.0
				1	12	22.4	27.8
				1	24	22.4	28.0
				12	0	21.7	27.7
				12	6	21.7	27.6
				12	11	21.7	27.5
				25	0	21.7	28.0
5.0	26765	821.5	QPSK	1	0	23.7	28.1
				1	12	23.6	28.2
				1	24	23.7	28.3
				12	0	22.7	27.9
				12	6	22.7	27.7
				12	11	22.7	27.7
				25	0	22.7	28.4
			16QAM	1	0	22.5	28.0
				1	12	22.4	27.8
				1	24	22.4	28.0
				12	0	21.7	27.5
				12	6	21.7	27.5
				12	11	21.7	27.4
				25	0	21.7	27.9

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	23.6	27.9
				1	24	23.6	28.1
				1	49	23.6	28.1
				25	0	22.7	27.7
				25	12	22.7	27.7
				25	24	22.7	27.8
				50	0	22.7	28.4
			16QAM	1	0	22.8	27.9
				1	24	22.8	28.1
				1	49	22.8	28.1
				25	0	21.8	27.8
				25	12	21.8	27.7
				25	24	21.8	27.7
				50	0	21.7	28.2

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 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26

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	1.0667	1.177
	1.4 MHz BAND 16QAM	6/0	1880	1.0581	1.174
	3.0 MHz BAND QPSK	15/0	1880	2.6924	2.811
	3.0 MHz BAND 16QAM	15/0	1880	2.6699	2.826
	5.0 MHz BAND QPSK	25/0	1880	4.4658	4.782
	5.0 MHz BAND 16QAM	25/0	1880	4.3673	4.664
	10.0 MHz BAND QPSK	50/0	1880	8.9741	9.224
	10.0 MHz BAND 16QAM	50/0	1880	8.7847	9.225
	15.0 MHz BAND QPSK	75/0	1880	13.3787	13.772
	15.0 MHz BAND 16QAM	75/0	1880	13.3513	13.979
	20.0 MHz BAND QPSK	100/0	1880	17.8493	18.344
	20.0 MHz BAND 16QAM	100/0	1880	17.7923	18.404

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	1.0907	1.22
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0722	1.217
	3.0 MHz BAND QPSK	15/0	1732.5	2.6886	2.827
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6681	2.785
	5.0 MHz BAND QPSK	25/0	1732.5	4.4689	4.653
	5.0 MHz BAND 16QAM	25/0	1732.5	4.4351	4.776
	10.0 MHz BAND QPSK	50/0	1732.5	8.8802	9.449
	10.0 MHz BAND 16QAM	50/0	1732.5	8.7955	9.255
	15.0 MHz BAND QPSK	75/0	1732.5	13.3913	13.73
	15.0 MHz BAND 16QAM	75/0	1732.5	13.2788	13.77
	20.0 MHz BAND QPSK	100/0	1732.5	17.6265	18.581
	20.0 MHz BAND 16QAM	100/0	1732.5	17.5692	18.542

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	1.0911	1.322
	1.4 MHz BAND 16QAM	6/0	836.5	1.0851	1.3
	3.0 MHz BAND QPSK	15/0	836.5	2.6659	2.885
	3.0 MHz BAND 16QAM	15/0	836.5	2.6576	2.906
	5.0 MHz BAND QPSK	25/0	836.5	4.4845	4.66
	5.0 MHz BAND 16QAM	25/0	836.5	4.4588	4.66
	10.0 MHz BAND QPSK	50/0	836.5	8.8954	9.248
	10.0 MHz BAND 16QAM	50/0	836.5	8.8728	9.234

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	1.0923	1.26
	1.4 MHz BAND 16QAM	6/0	707.5	1.0841	1.22
	3.0 MHz BAND QPSK	15/0	707.5	2.6768	2.865
	3.0 MHz BAND 16QAM	15/0	707.5	2.6602	2.787
	5.0 MHz BAND QPSK	25/0	707.5	4.4415	4.72
	5.0 MHz BAND 16QAM	25/0	707.5	4.3948	4.608
	10.0 MHz BAND QPSK	50/0	707.5	8.8973	9.108
	10.0 MHz BAND 16QAM	50/0	707.5	8.7717	9.209

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 13	5.0 MHz BAND QPSK	25/0	782	4.4897	4.789
	5.0 MHz BAND 16QAM	25/0	782	4.4464	4.656
	10.0 MHz BAND QPSK	50/0	782	8.8976	9.356
	10.0 MHz BAND 16QAM	50/0	782	8.8861	9.209

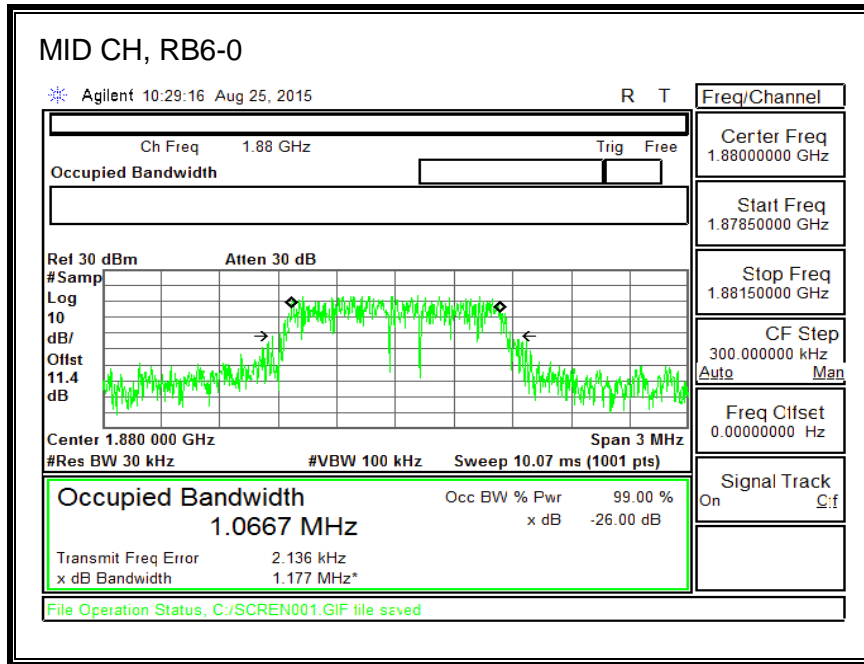
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 17	5.0 MHz BAND QPSK	25/0	710	4.4447	4.592
	5.0 MHz BAND 16QAM	25/0	710	4.4775	4.622
	10.0 MHz BAND QPSK	50/0	710	8.8831	9.154
	10.0 MHz BAND 16QAM	50/0	710	8.8462	9.167

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	1.0935	1.195
	1.4 MHz BAND 16QAM	6/0	1882.5	1.071	1.239
	3.0 MHz BAND QPSK	15/0	1882.5	2.6636	2.826
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6593	2.83
	5.0 MHz BAND QPSK	25/0	1882.5	4.4825	4.668
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4691	4.626
	10.0 MHz BAND QPSK	50/0	1882.5	8.8794	9.297
	10.0 MHz BAND 16QAM	50/0	1882.5	8.8286	9.289
	15.0 MHz BAND QPSK	75/0	1882.5	13.3564	13.929
	15.0 MHz BAND 16QAM	75/0	1882.5	13.337	13.781
	20.0 MHz BAND QPSK	100/0	1882.5	17.7007	18.345
	20.0 MHz BAND 16QAM	100/0	1882.5	17.6399	18.295

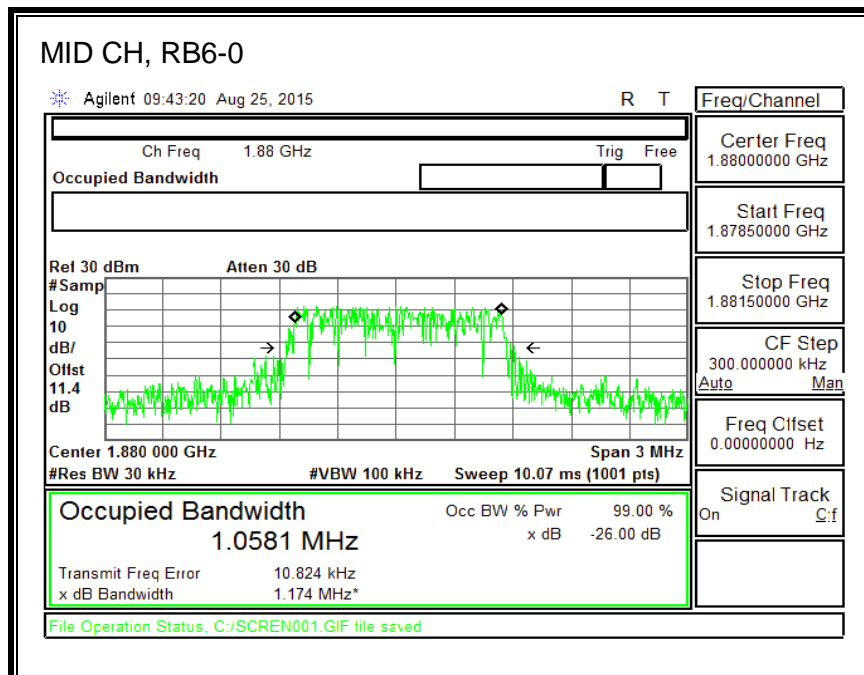
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 26	1.4 MHz BAND QPSK	6/0	819	1.0758	1.26
	1.4 MHz BAND 16QAM	6/0	819	1.0699	1.173
	3.0 MHz BAND QPSK	15/0	819	2.6734	2.8
	3.0 MHz BAND 16QAM	15/0	819	2.6531	2.801
	5.0 MHz BAND QPSK	25/0	819	4.4702	4.616
	5.0 MHz BAND 16QAM	25/0	819	4.4504	4.685
	10.0 MHz BAND QPSK	50/0	819	8.8837	9.234
	10.0 MHz BAND 16QAM	50/0	819	8.8691	9.214

8.1.1. LTE BAND 2

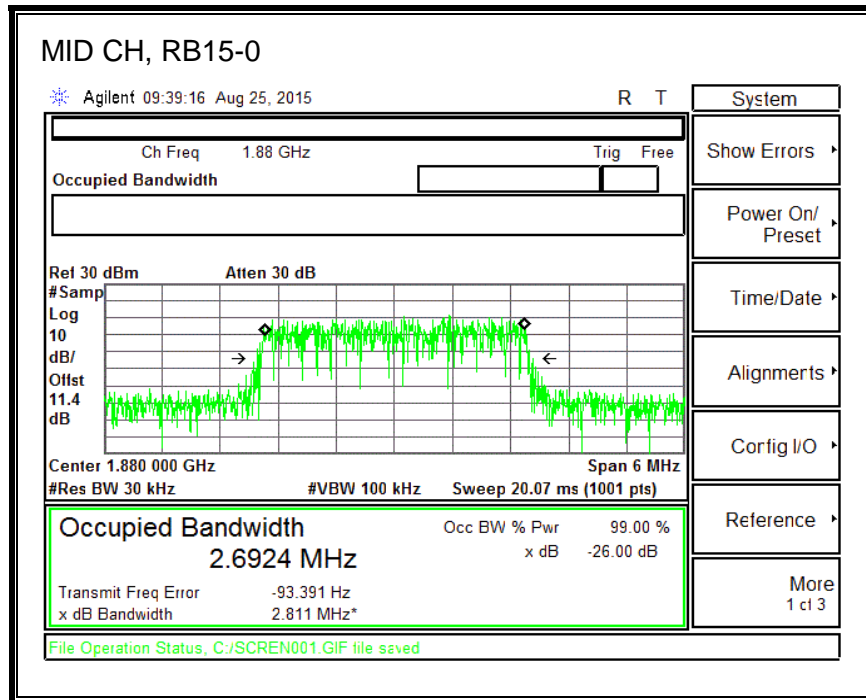
QPSK, (1.4 MHz BAND WIDTH)



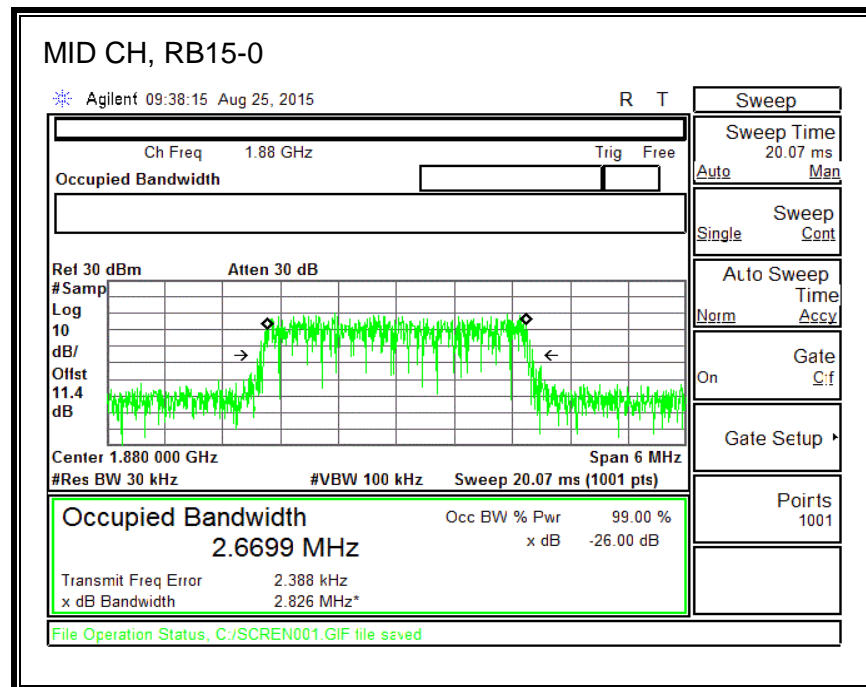
16QAM, (1.4 MHz BAND WIDTH)



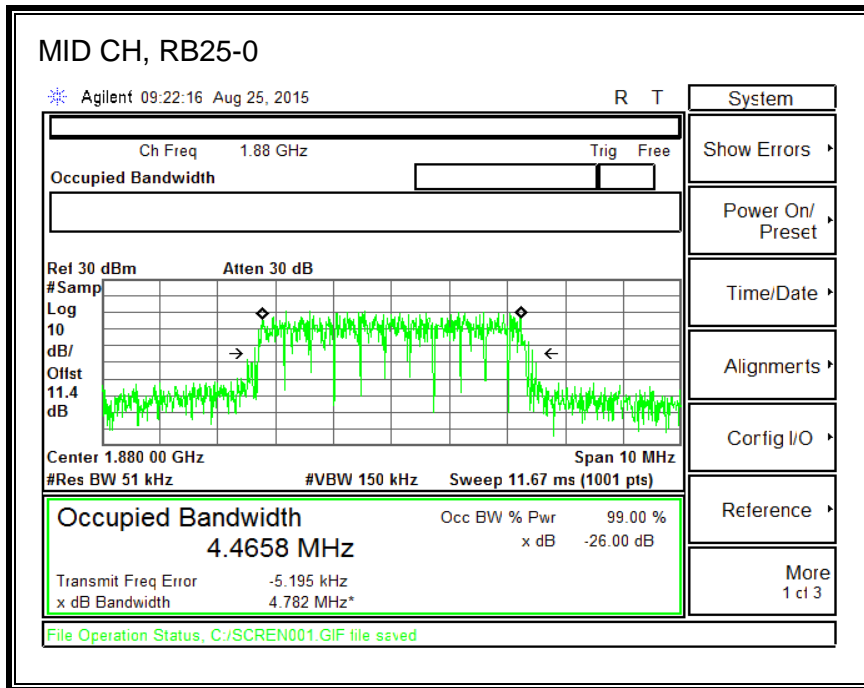
QPSK, (3.0 MHz BAND WIDTH)



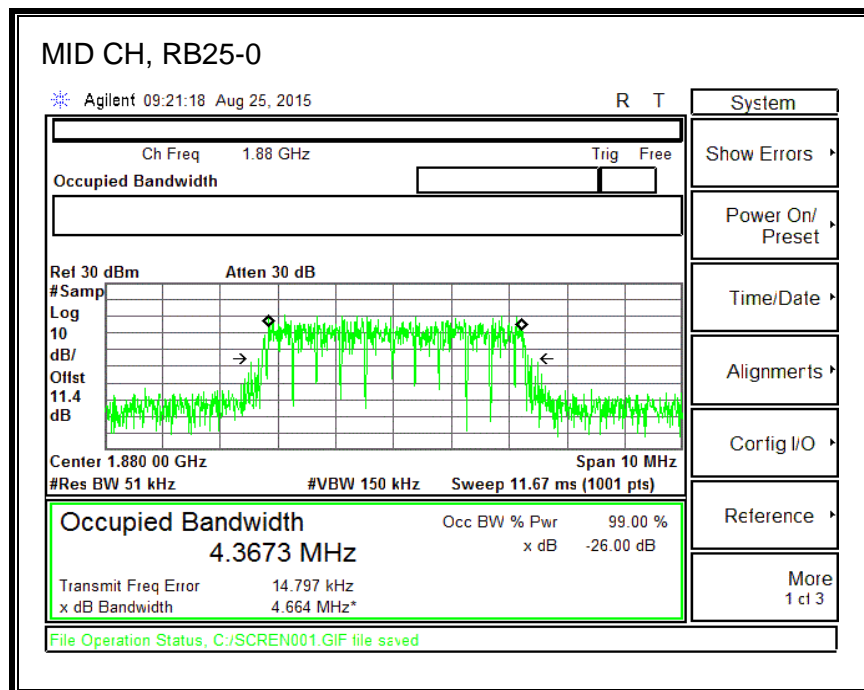
16QAM, (3.0 MHz BAND WIDTH)



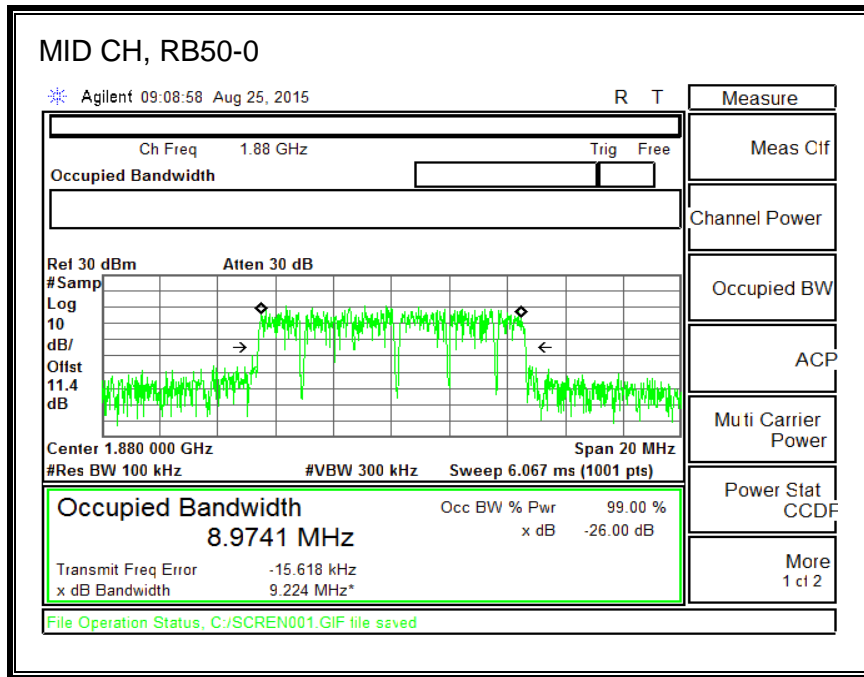
QPSK, (5.0 MHz BAND WIDTH)



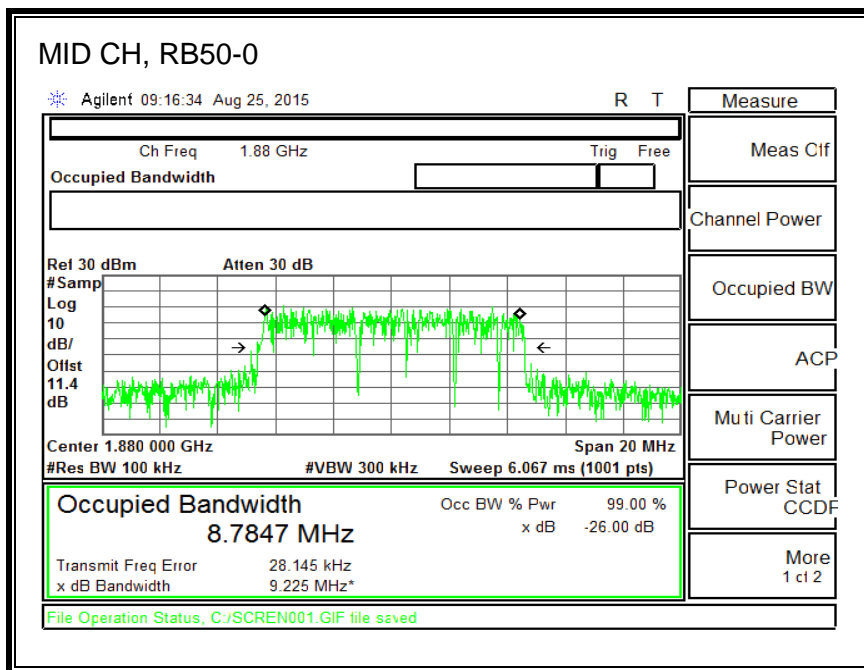
16QAM, (5.0 MHz BAND WIDTH)



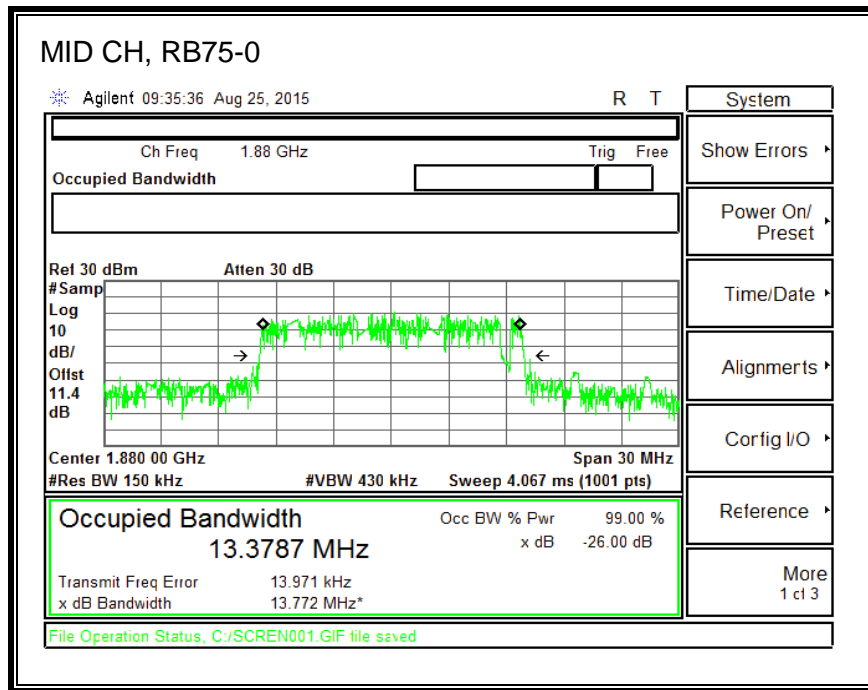
QPSK, (10.0 MHz BAND WIDTH)



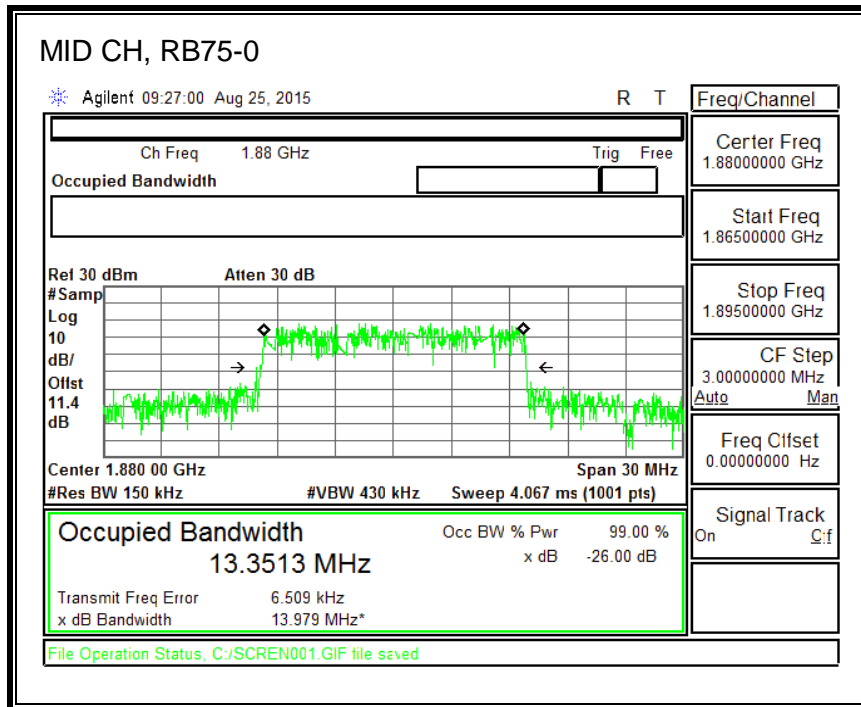
16QAM, (10.0 MHz BAND WIDTH)



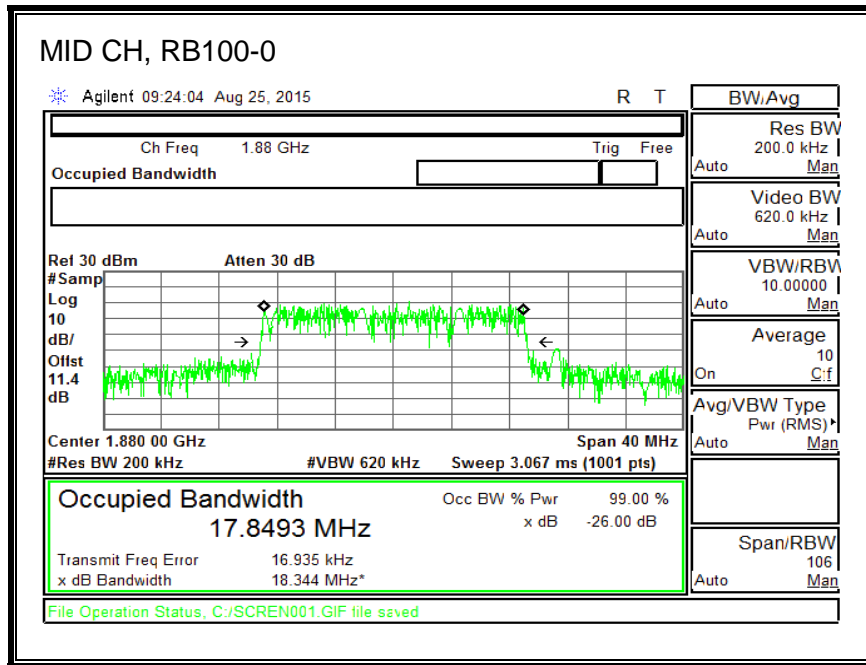
QPSK, (15.0 MHz BAND WIDTH)



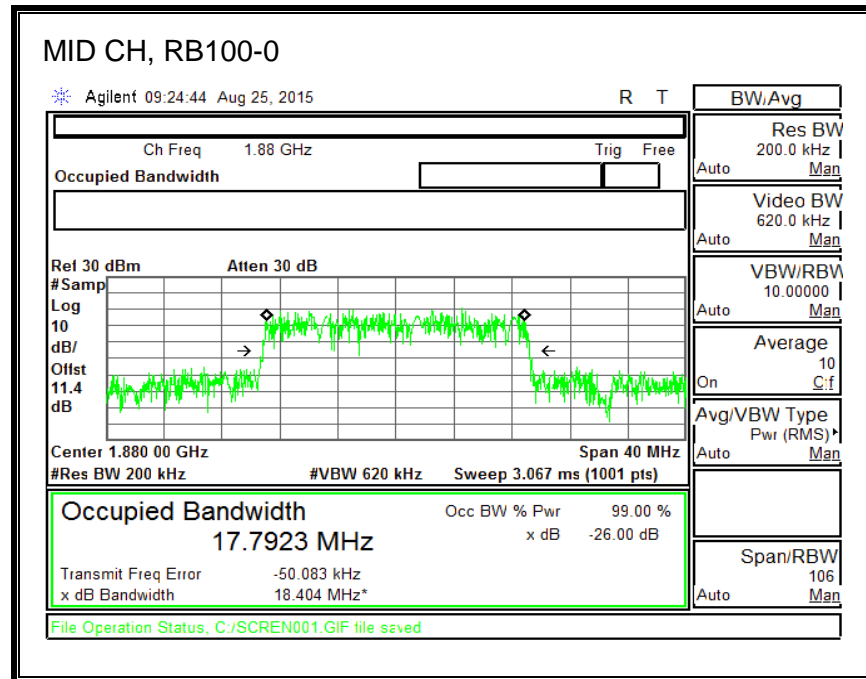
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

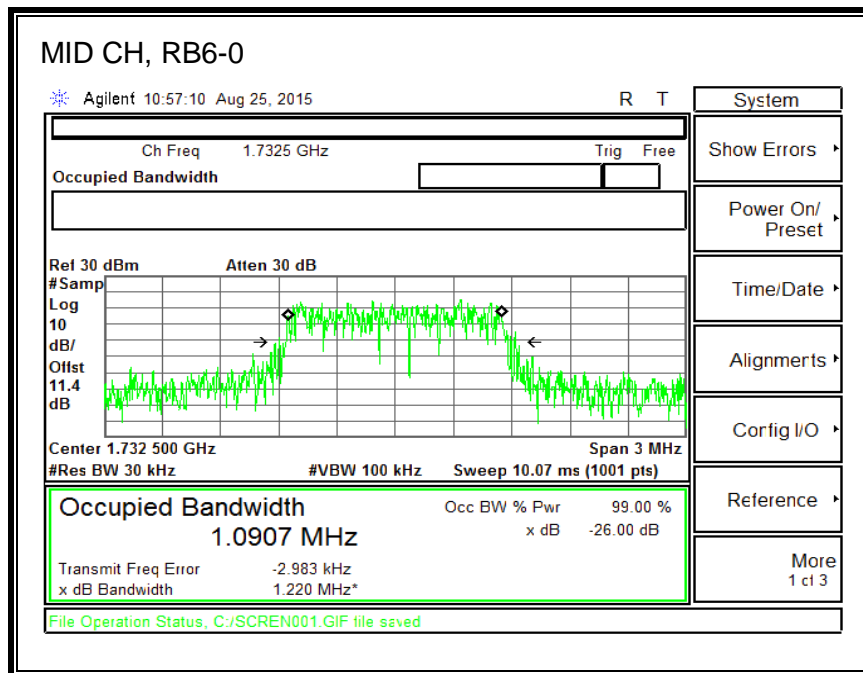


16QAM, (20.0 MHz BAND WIDTH)

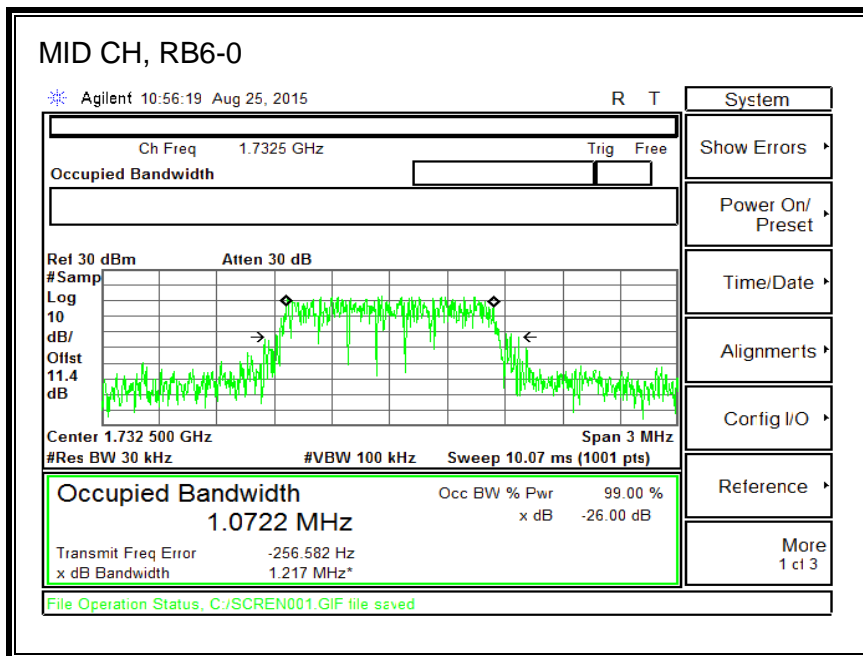


8.1.2. LTE BAND 4

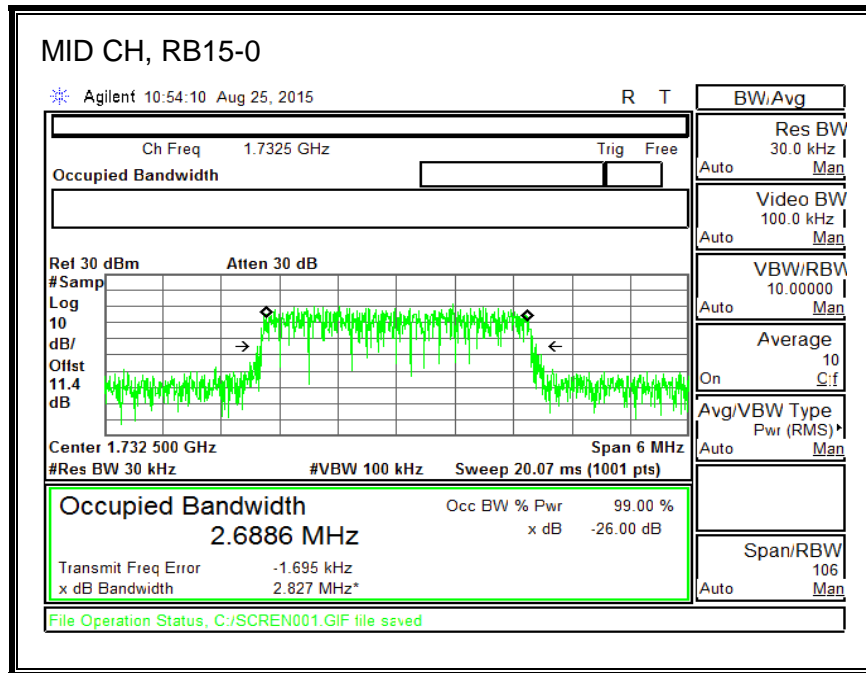
QPSK, (1.4 MHz BAND WIDTH)



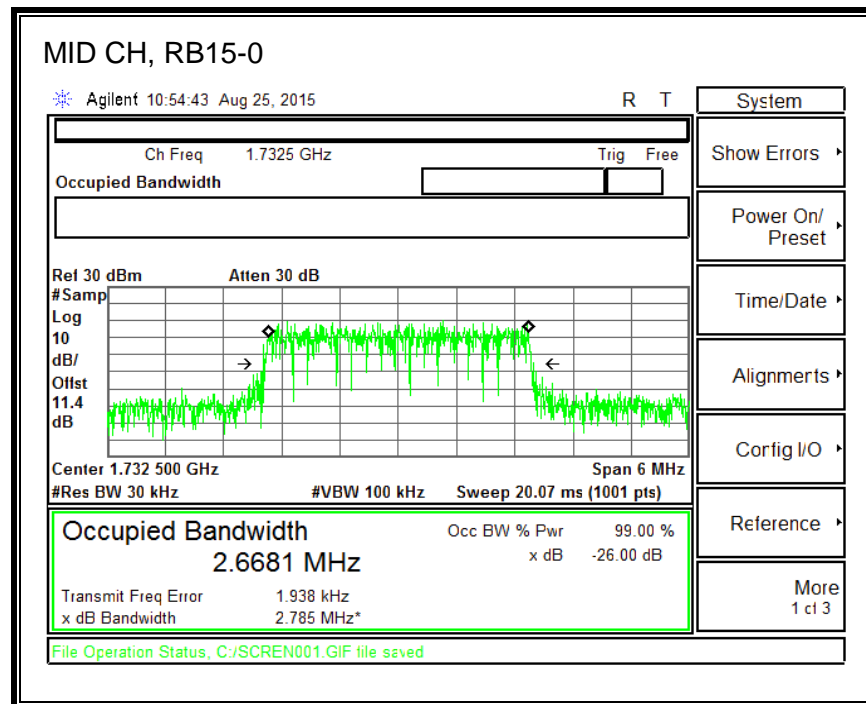
16QAM, (1.4 MHz BAND WIDTH)



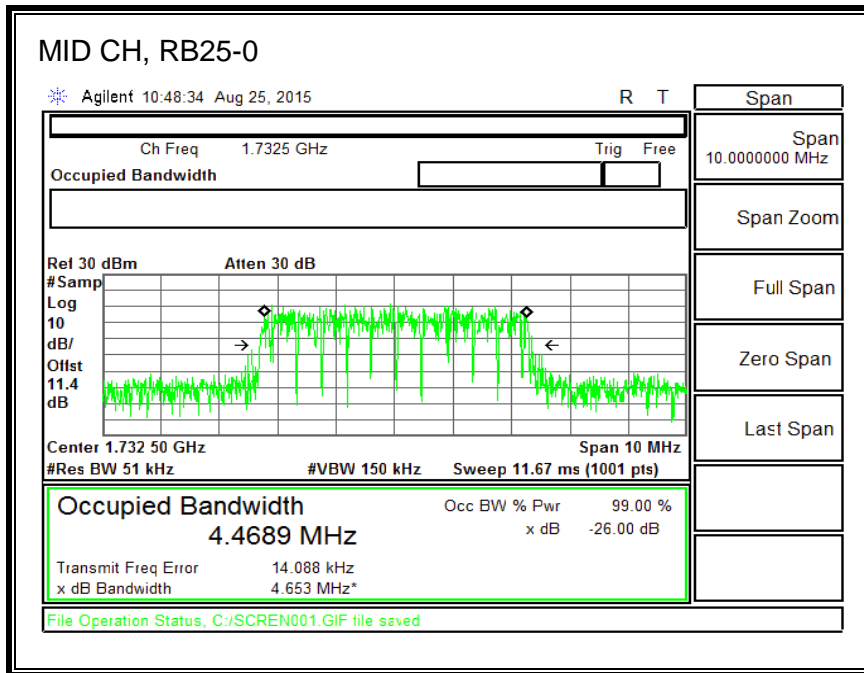
QPSK, (3.0 MHz BAND WIDTH)



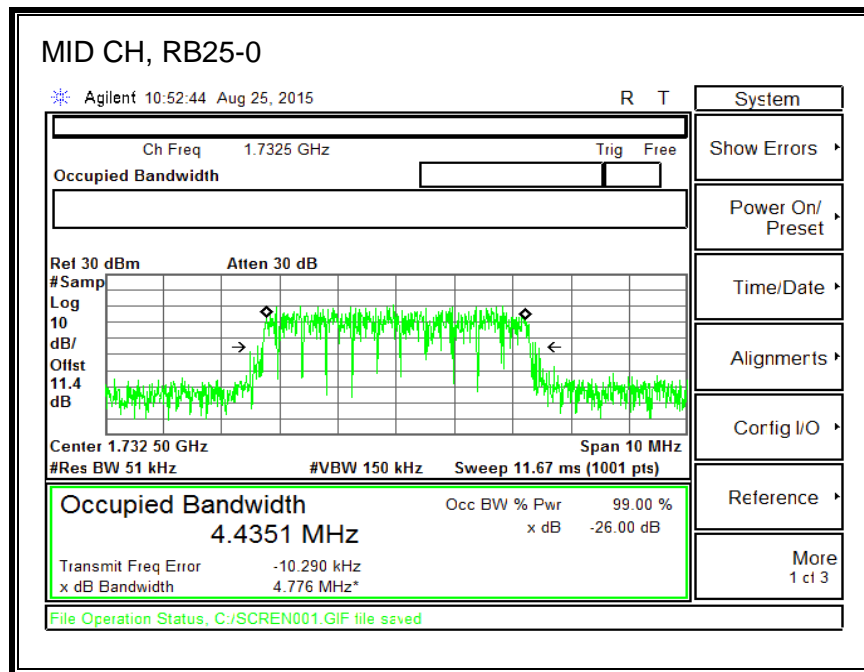
16QAM, (3.0 MHz BAND WIDTH)



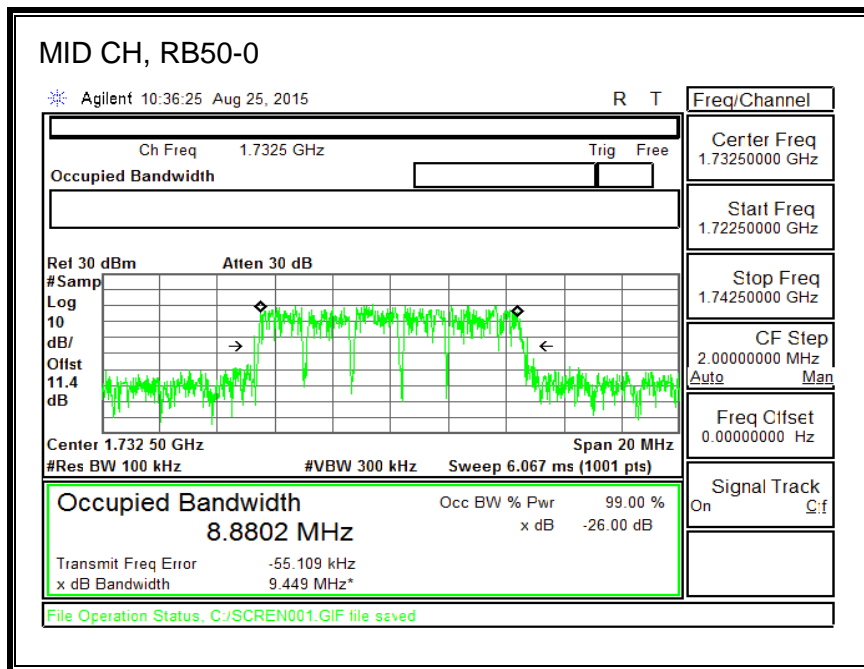
QPSK, (5.0 MHz BAND WIDTH)



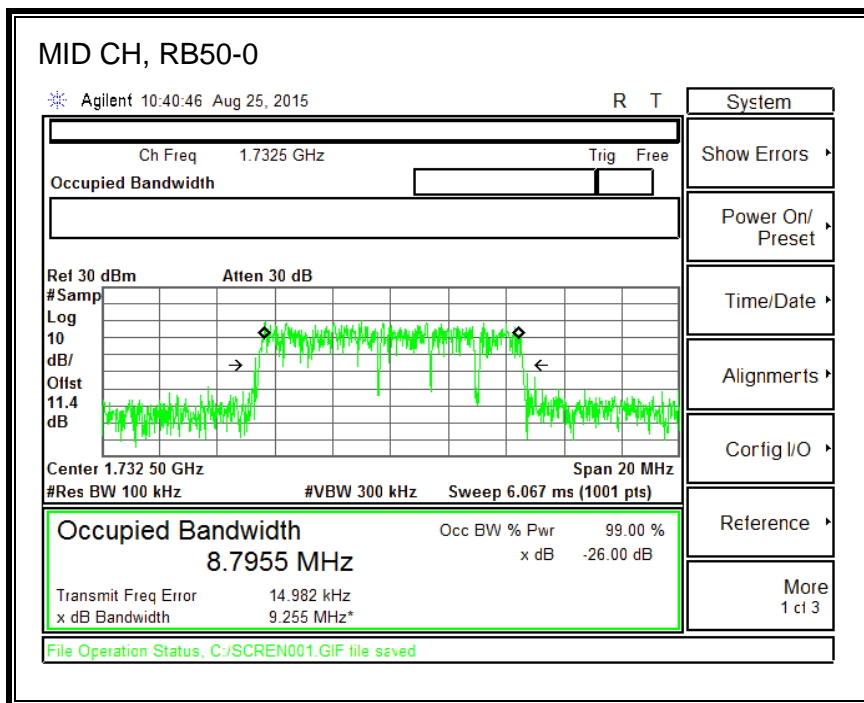
16QAM, (5.0 MHz BAND WIDTH)



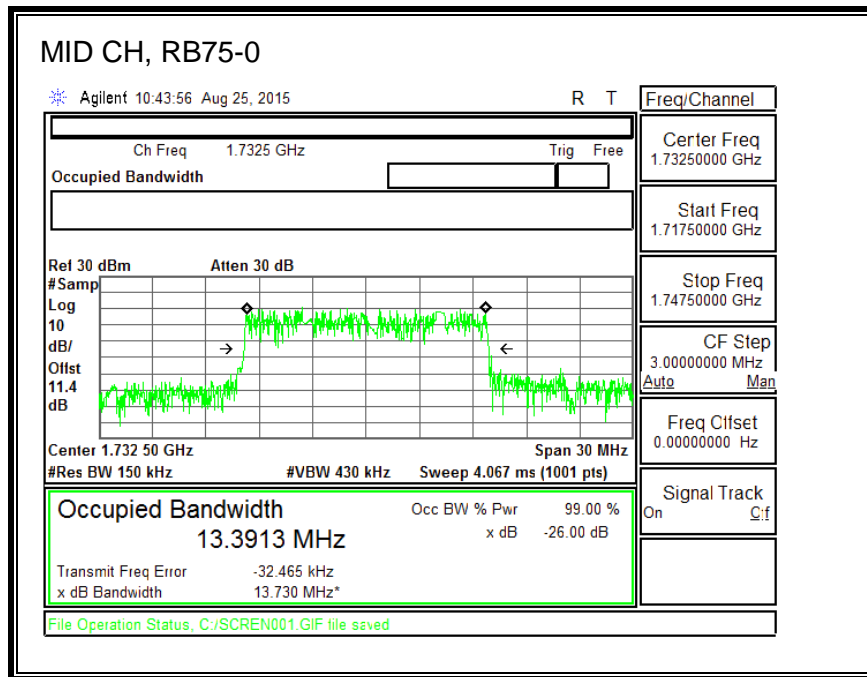
QPSK, (10.0 MHz BAND WIDTH)



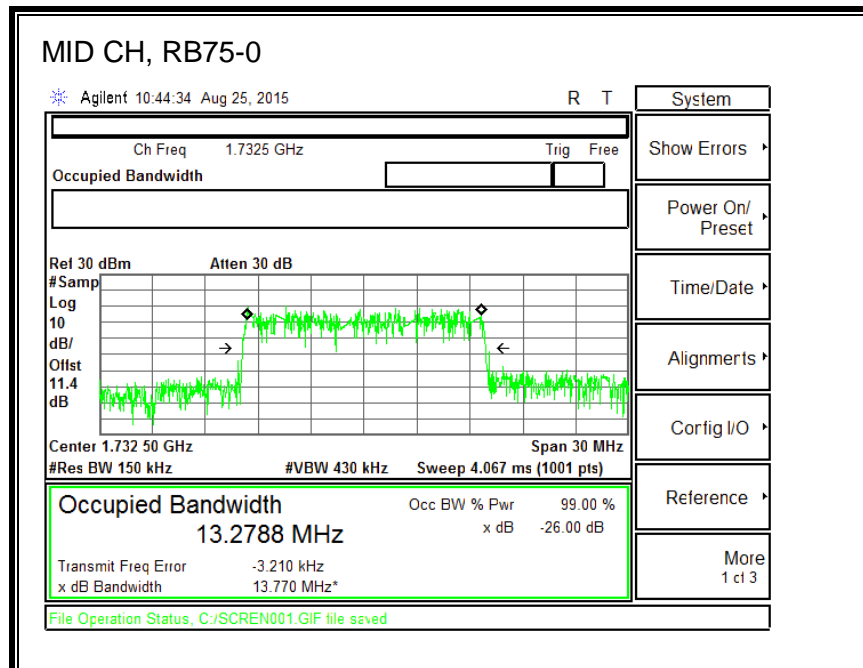
16QAM, (10.0 MHz BAND WIDTH)



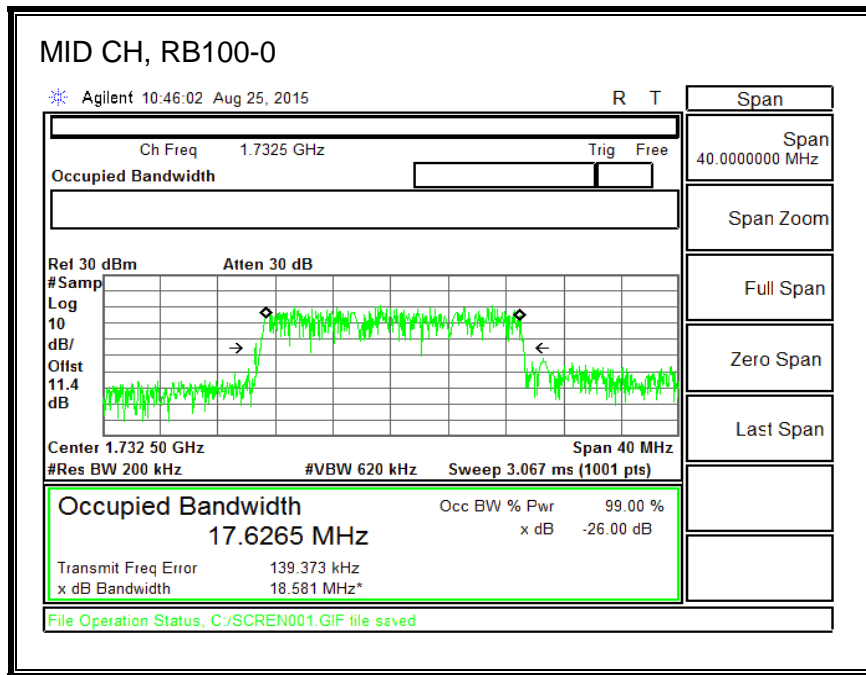
QPSK, (15.0 MHz BAND WIDTH)



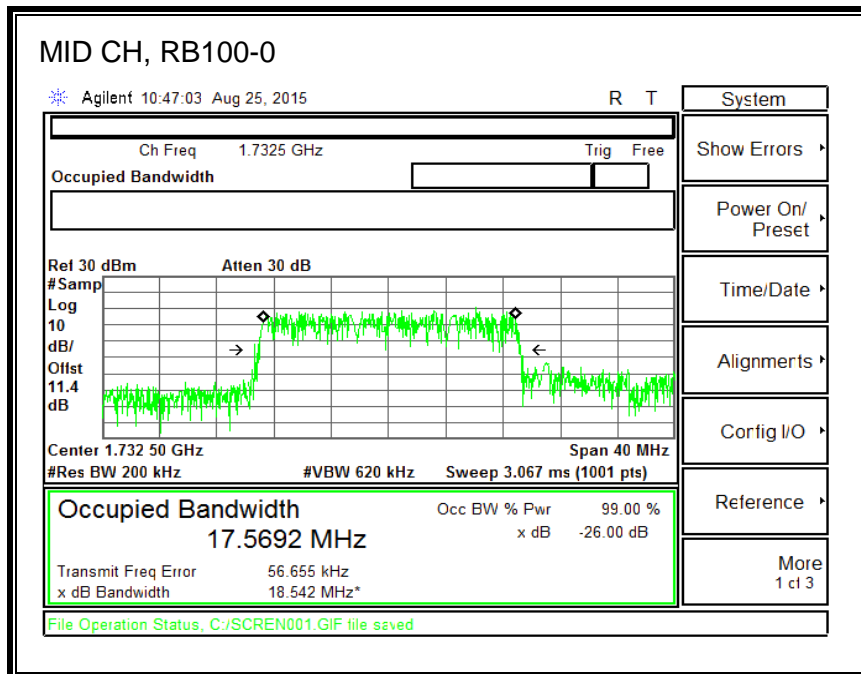
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

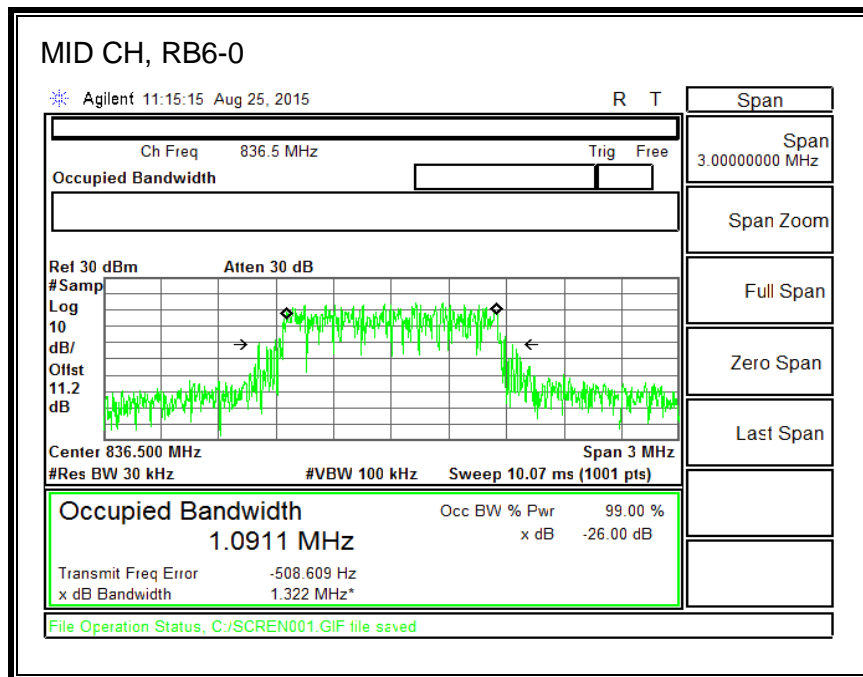


16QAM, (20.0 MHz BAND WIDTH)

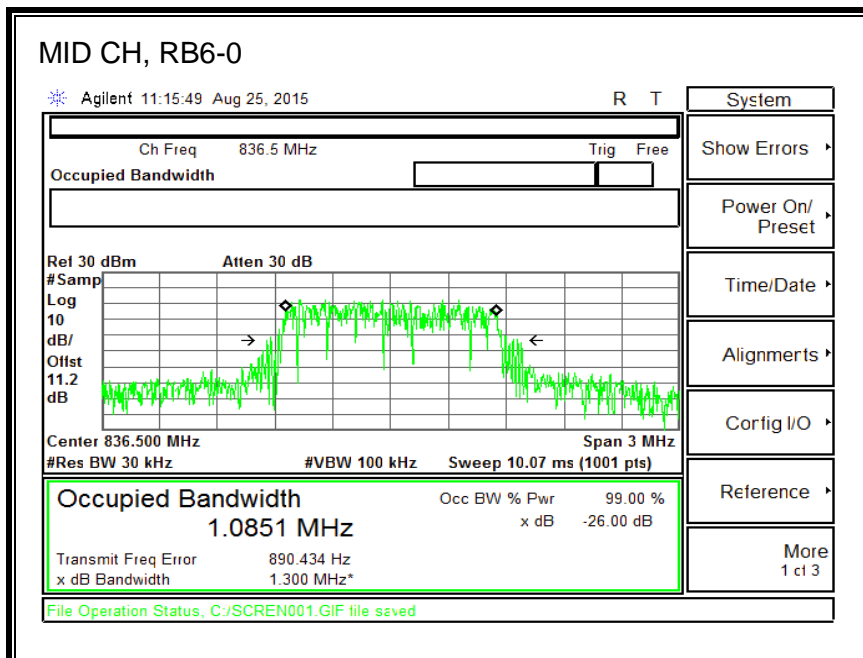


8.1.3. LTE BAND 5

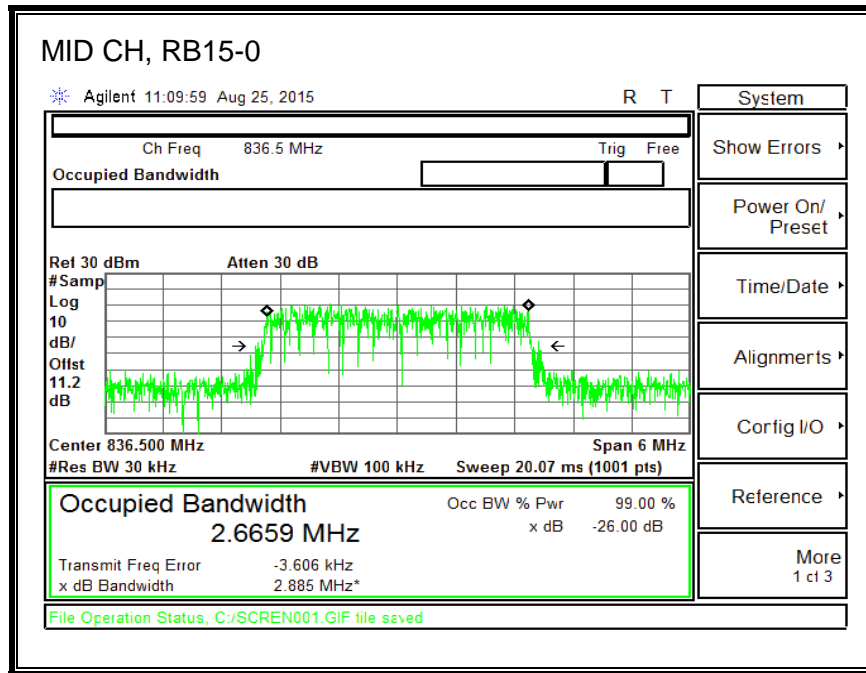
QPSK, (1.4 MHz BAND WIDTH)



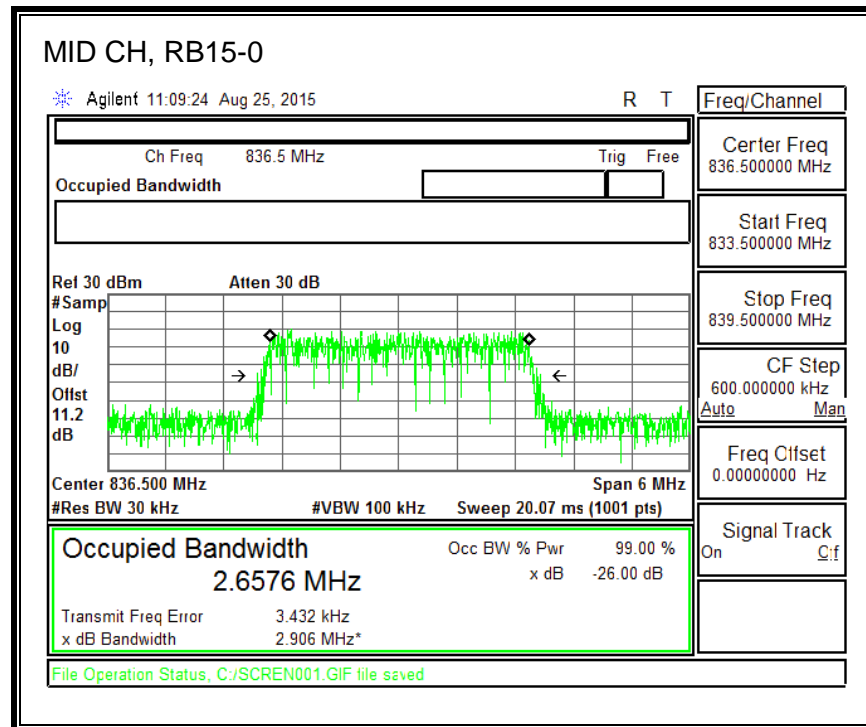
16QAM, (1.4 MHz BAND WIDTH)



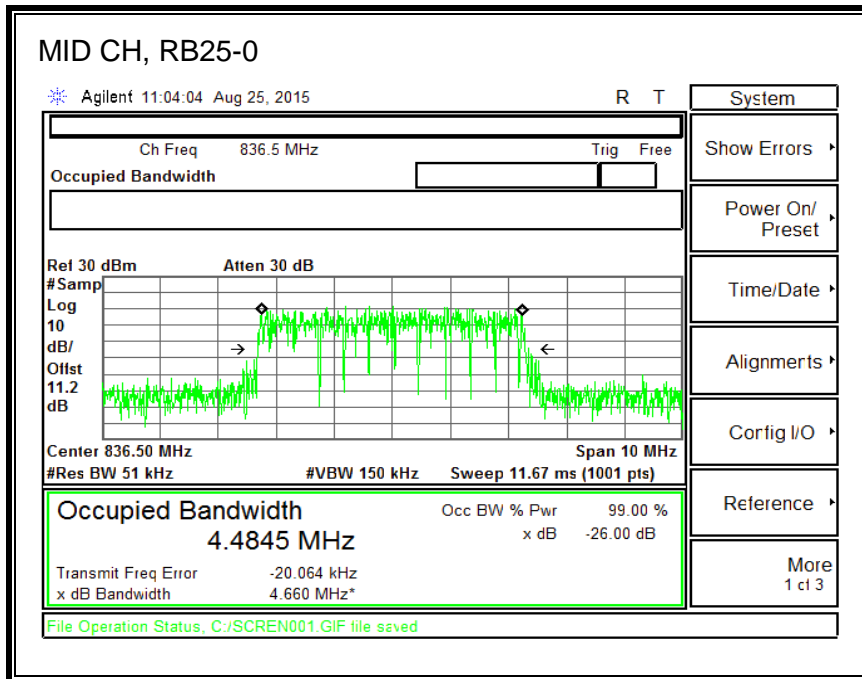
QPSK, (3.0 MHz BAND WIDTH)



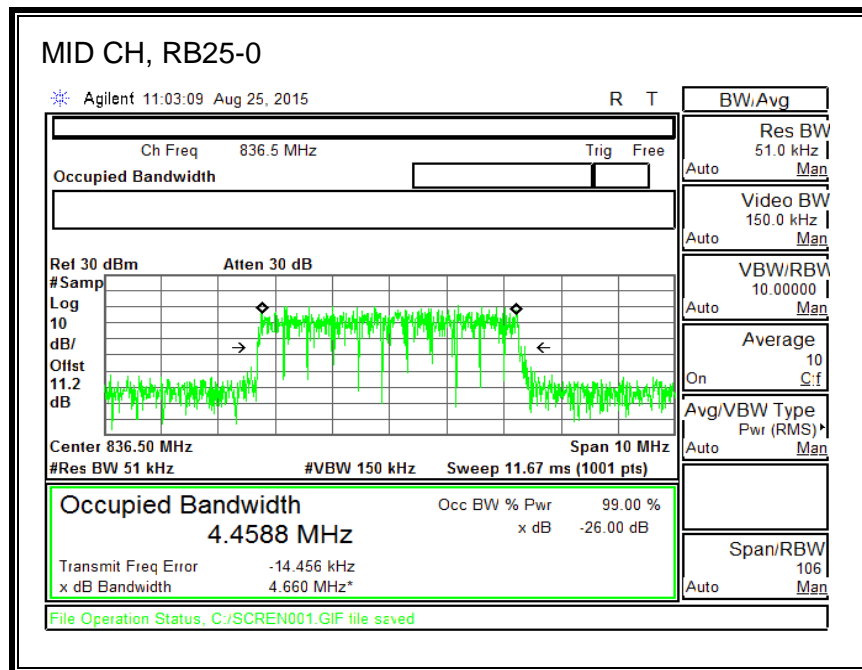
16QAM, (3.0 MHz BAND WIDTH)



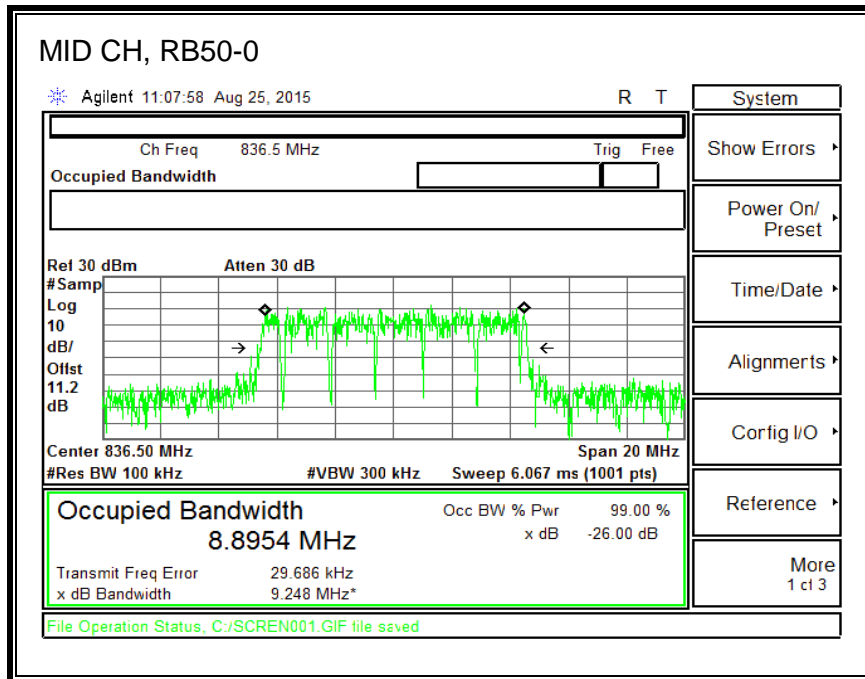
QPSK, (5.0 MHz BAND WIDTH)



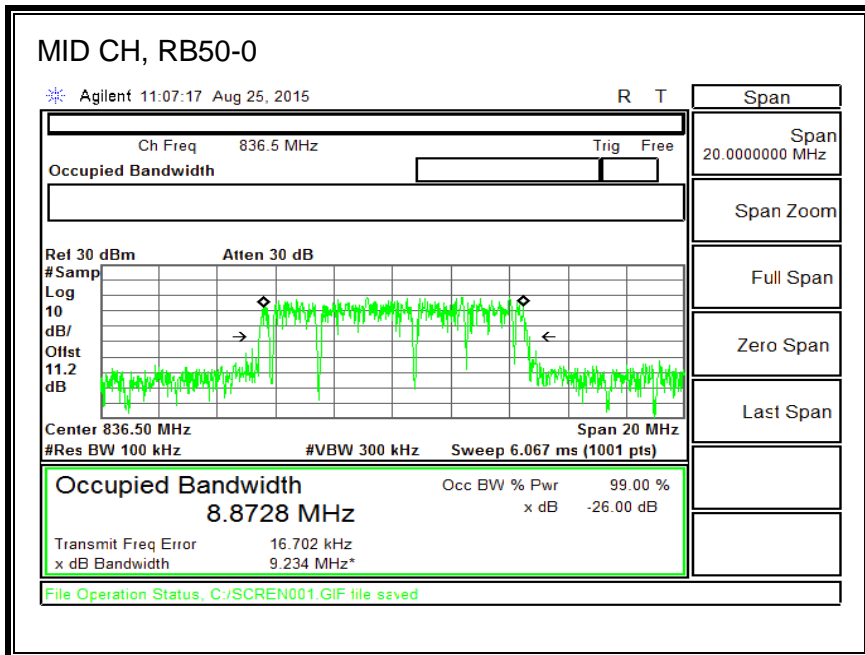
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

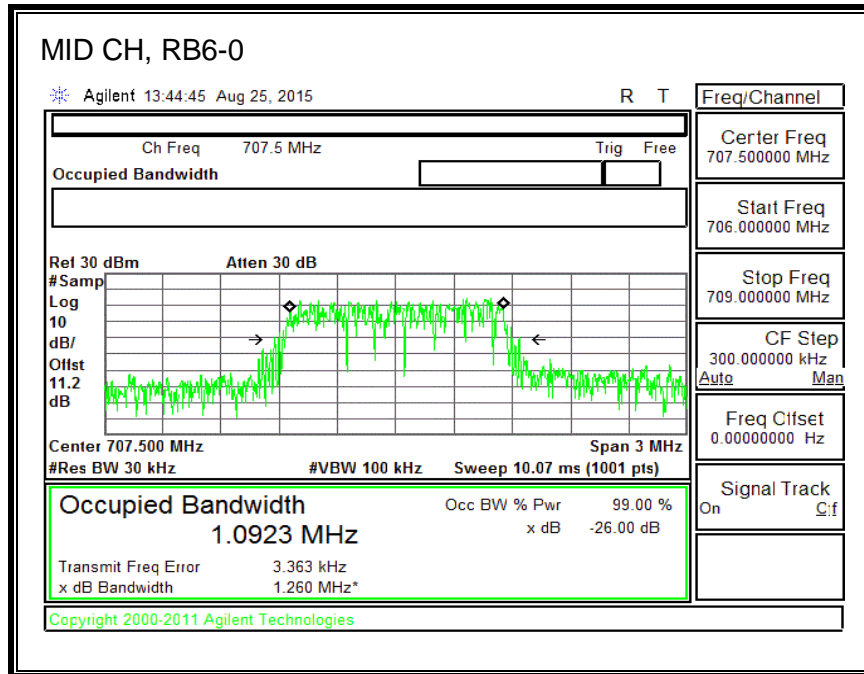


16QAM, (10.0 MHz BAND WIDTH)

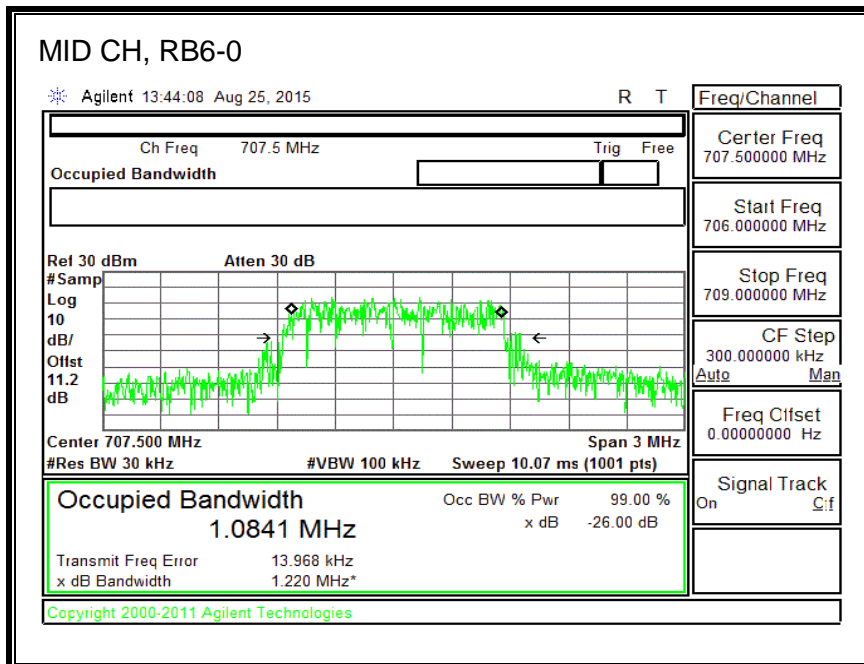


8.1.4. LTE BAND 12

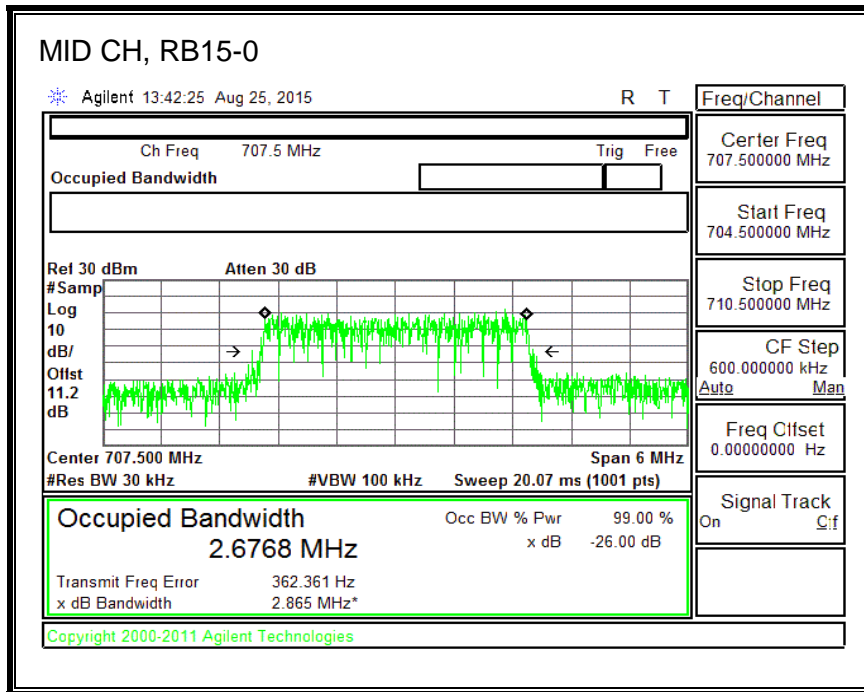
QPSK, (1.4 MHz BAND WIDTH)



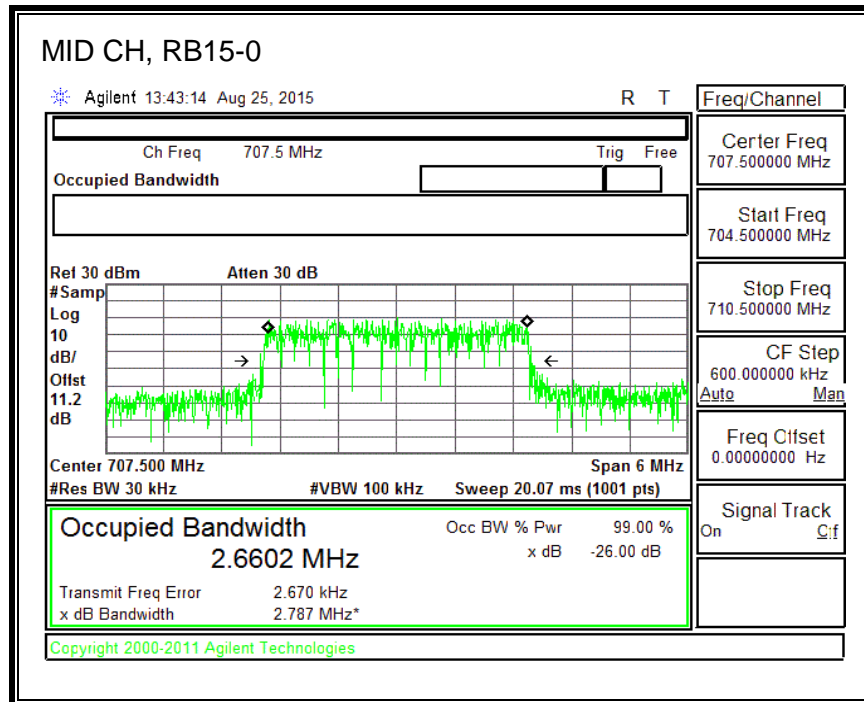
16QAM, (1.4 MHz BAND WIDTH)



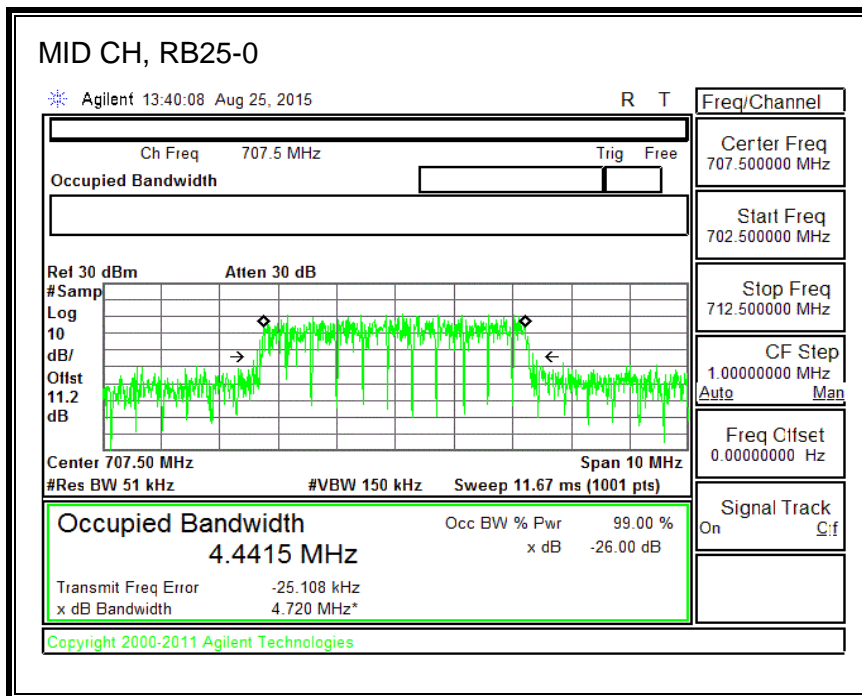
QPSK, (3.0 MHz BAND WIDTH)



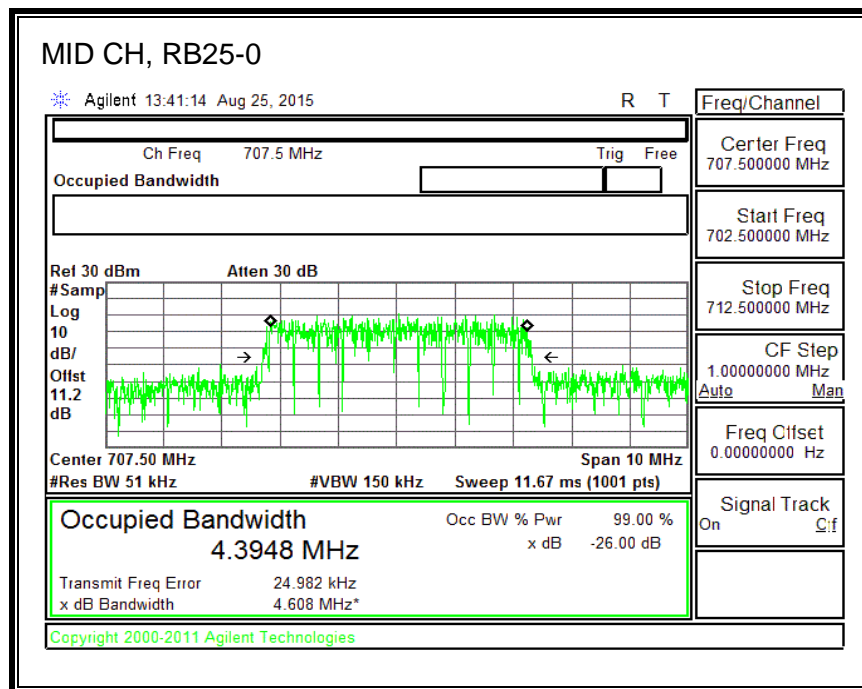
16QAM, (3.0 MHz BAND WIDTH)



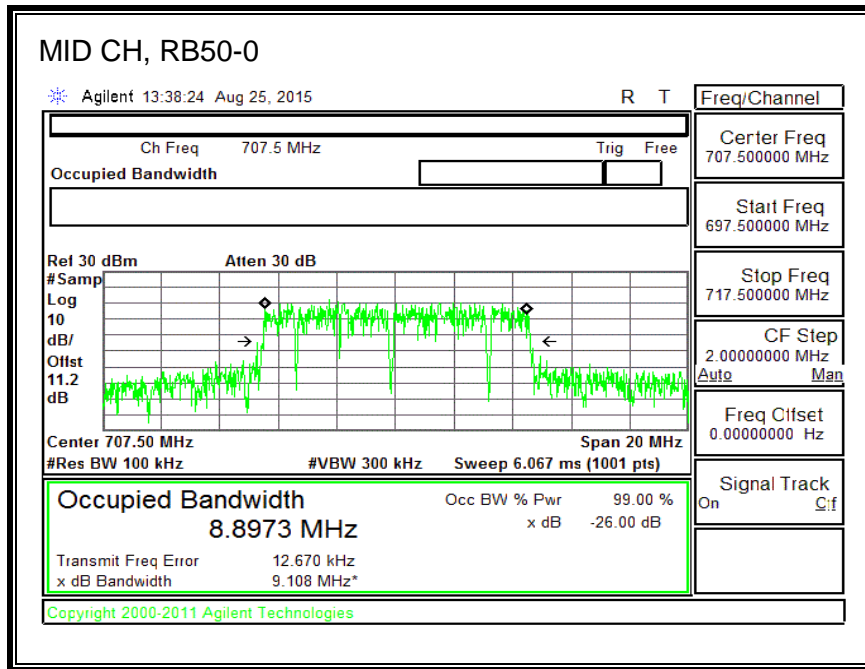
QPSK, (5.0 MHz BAND WIDTH)



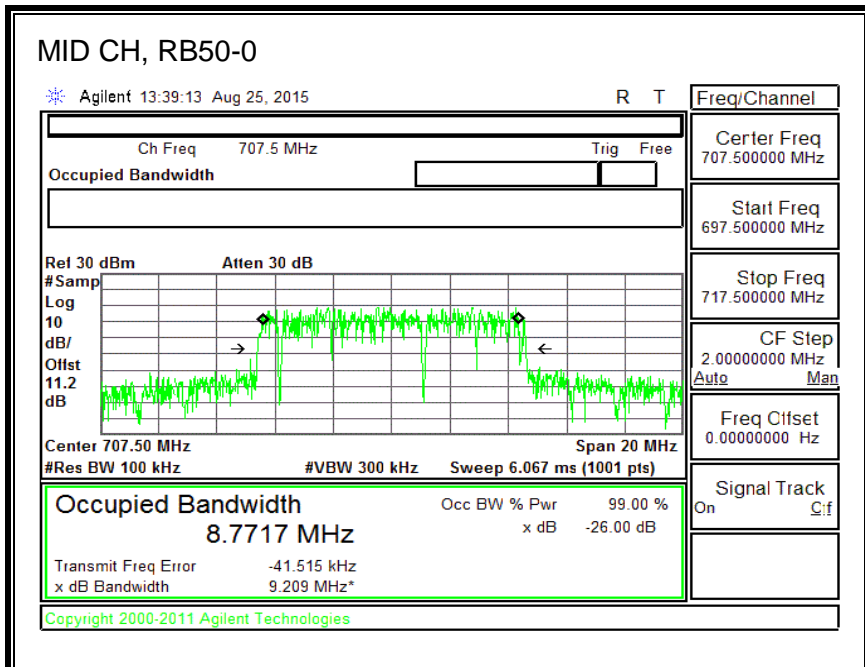
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

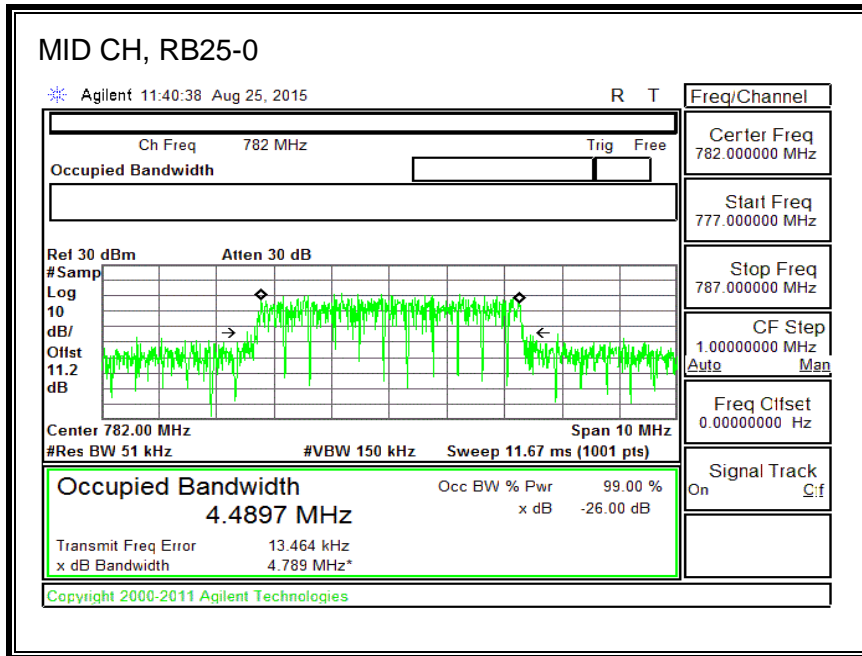


16QAM, (10.0 MHz BAND WIDTH)

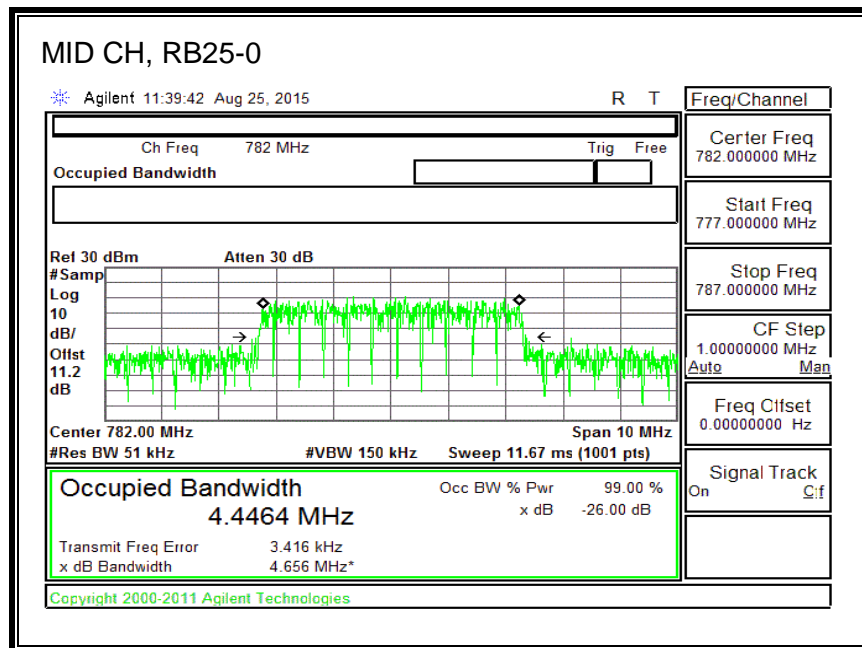


8.1.5. LTE BAND 13

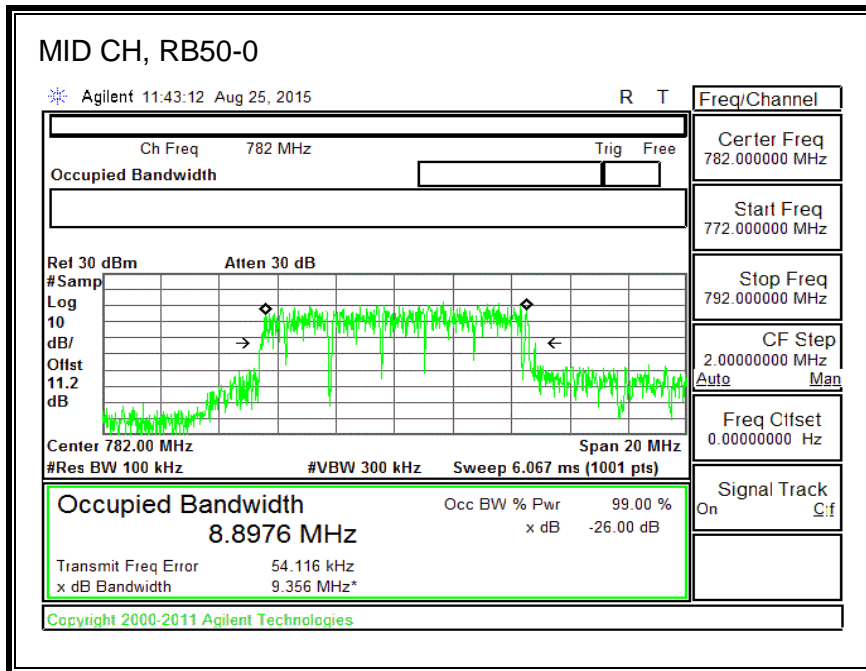
QPSK, (5.0 MHz BAND WIDTH)



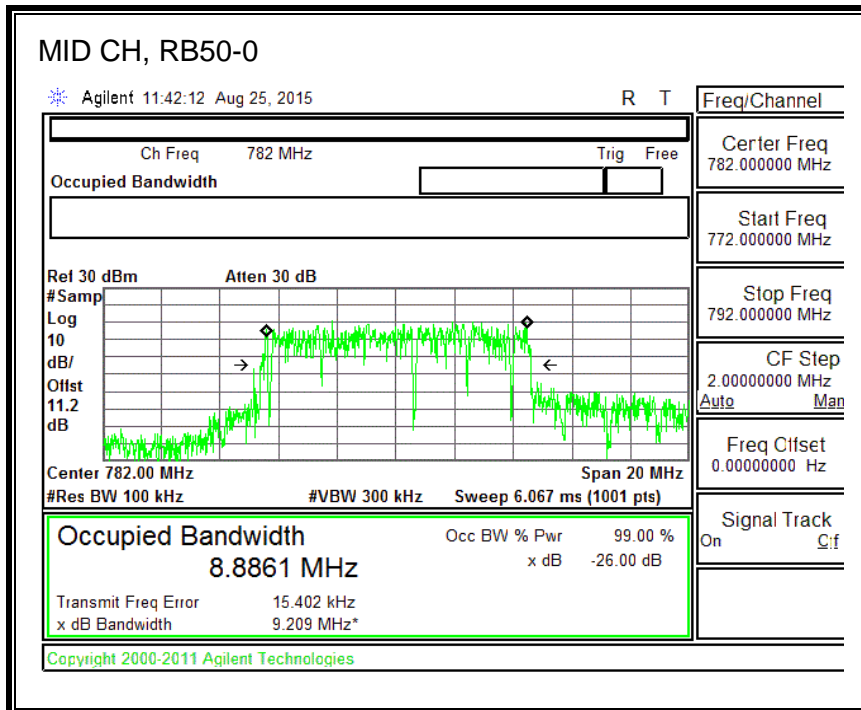
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

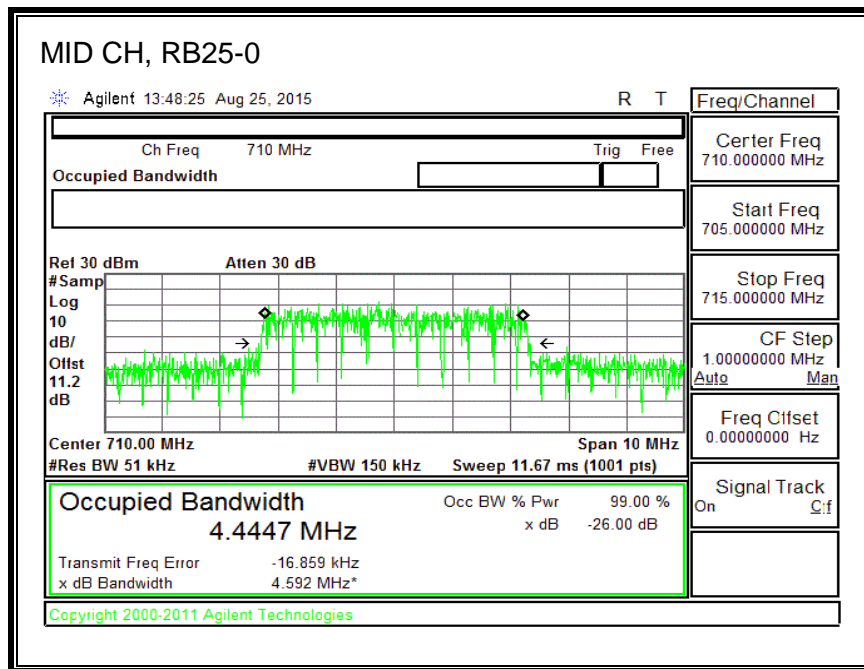


16QAM, (10.0 MHz BAND WIDTH)

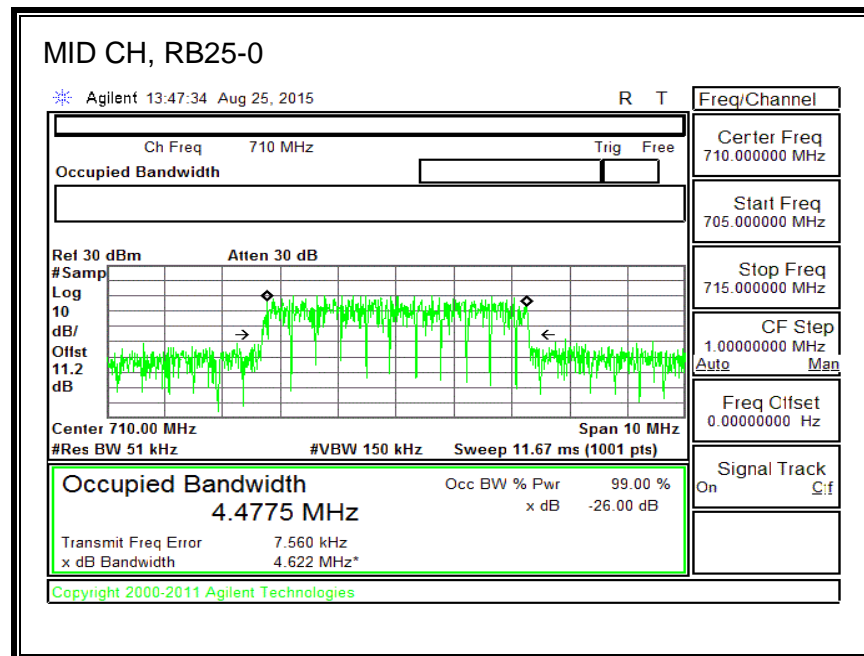


8.1.6. LTE BAND 17

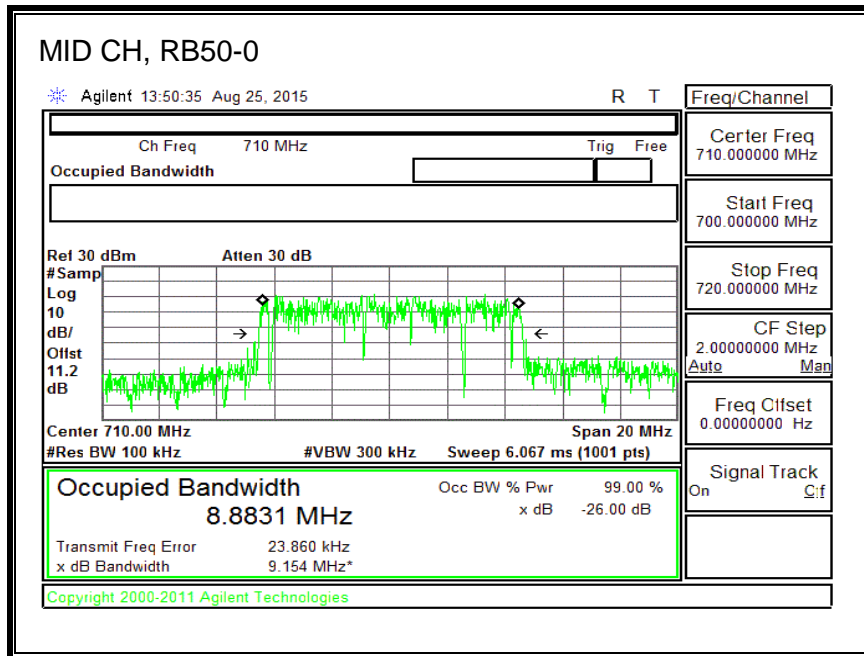
QPSK, (5.0 MHz BAND WIDTH)



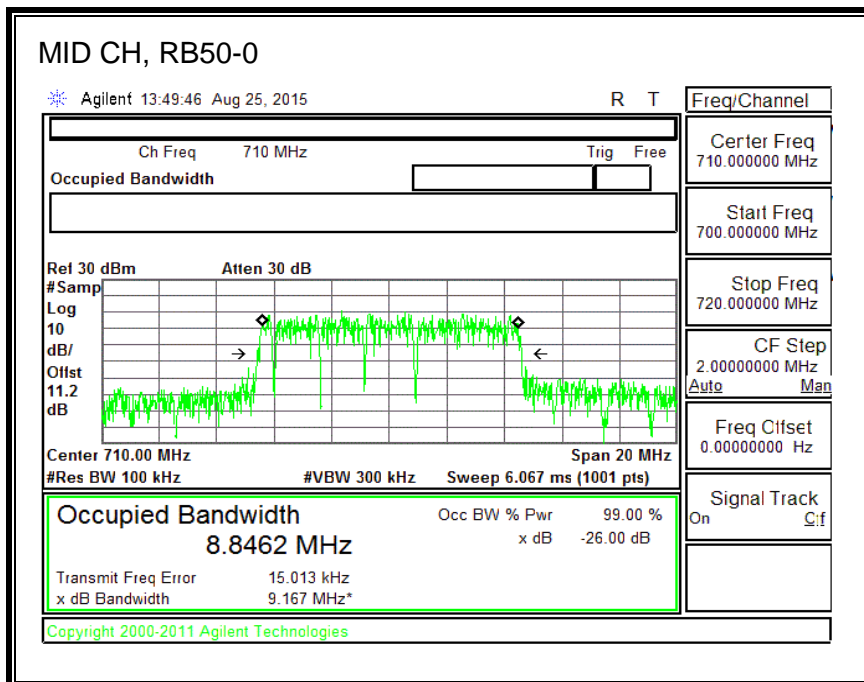
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

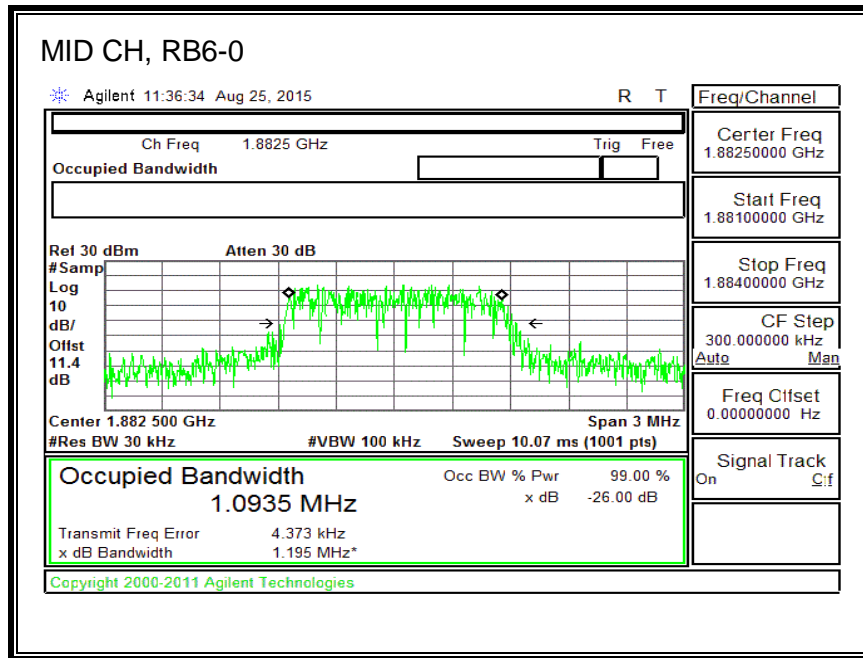


16QAM, (10.0 MHz BAND WIDTH)

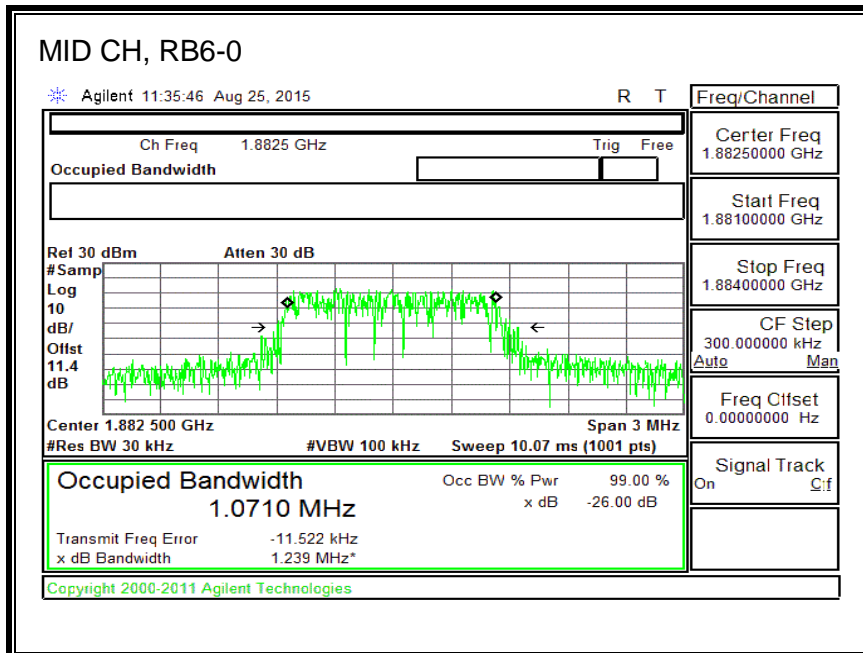


8.1.7. LTE BAND 25

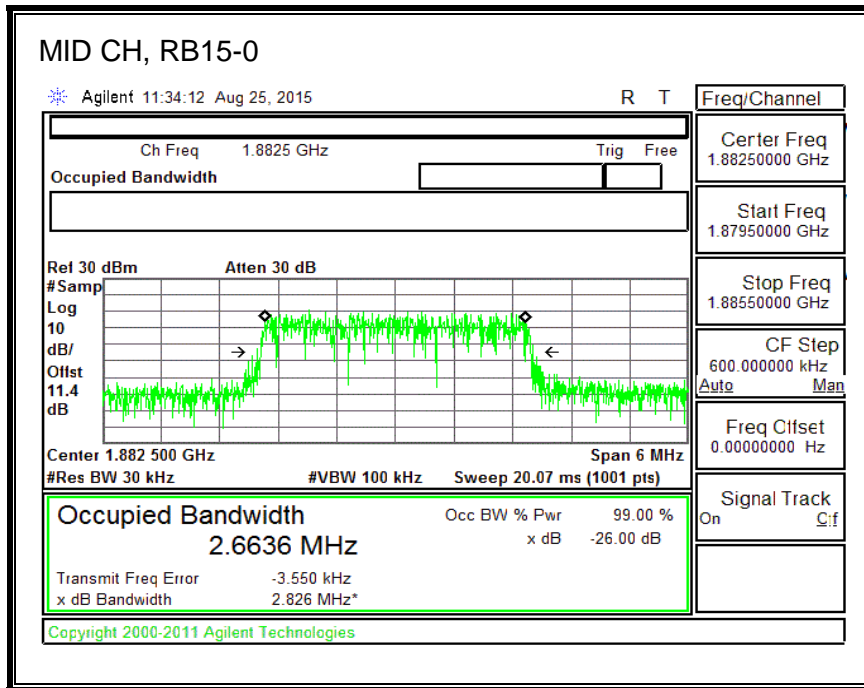
QPSK, (1.4 MHz BAND WIDTH)



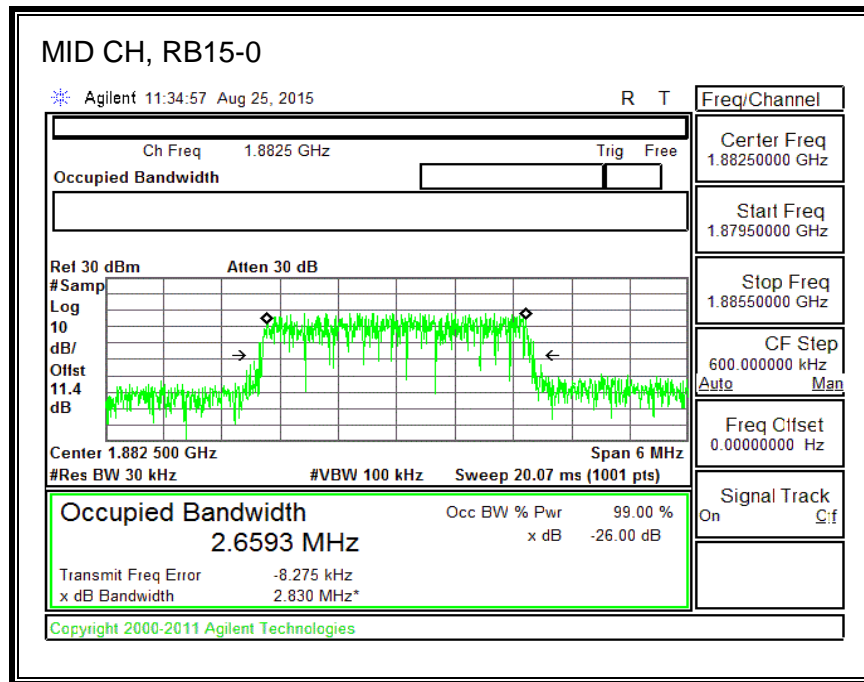
16QAM, (1.4 MHz BAND WIDTH)



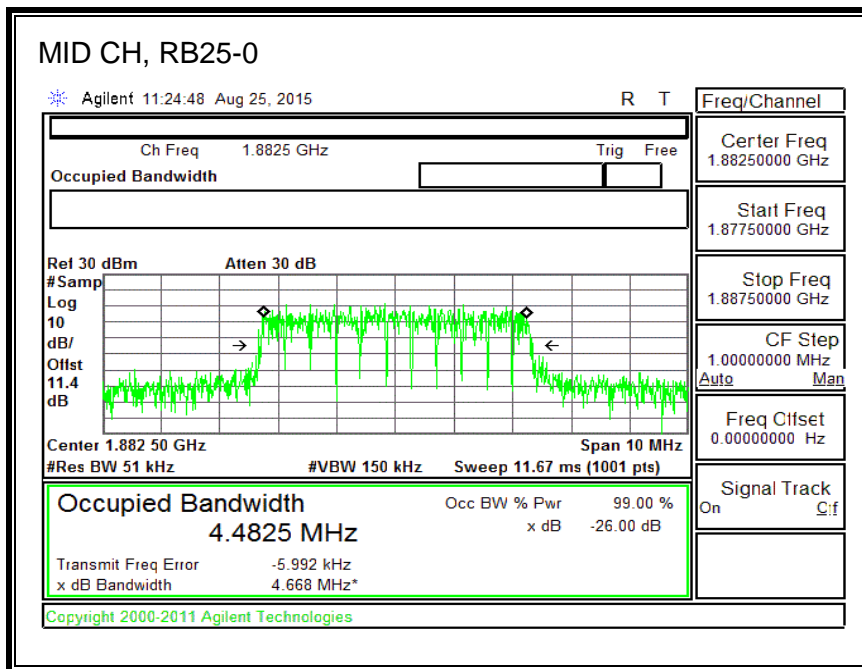
QPSK, (3.0 MHz BAND WIDTH)



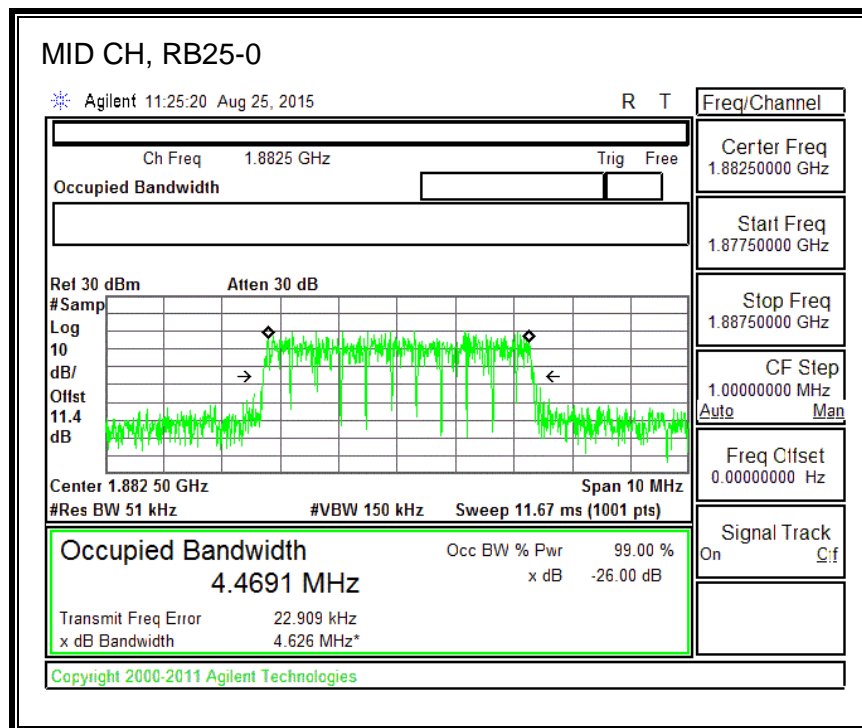
16QAM, (3.0 MHz BAND WIDTH)



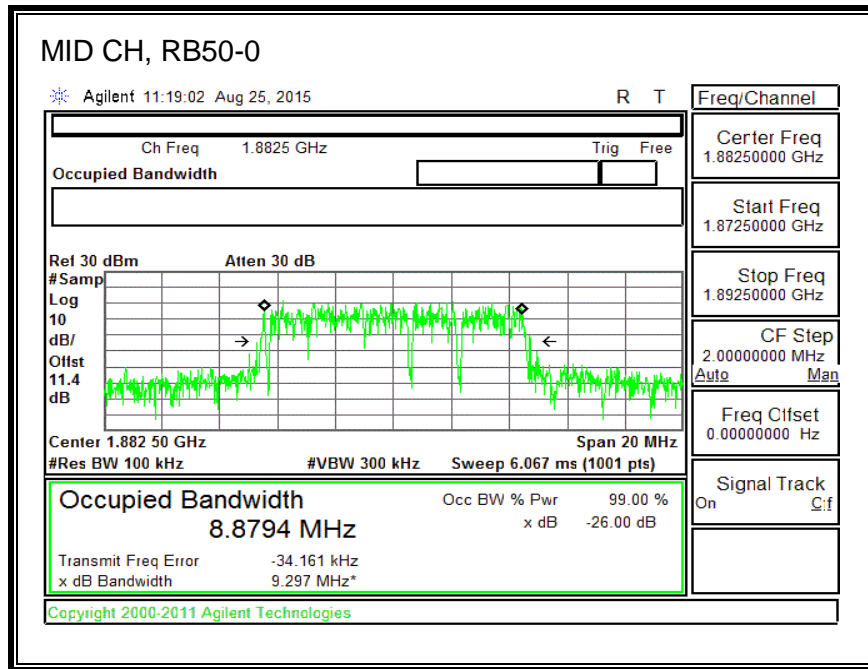
QPSK, (5.0 MHz BAND WIDTH)



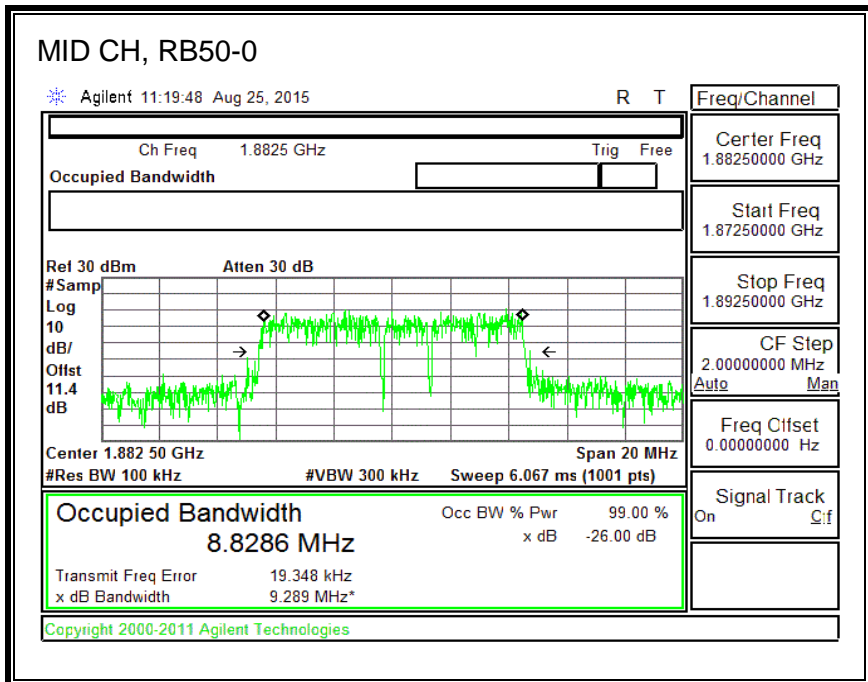
16QAM, (5.0 MHz BAND WIDTH)



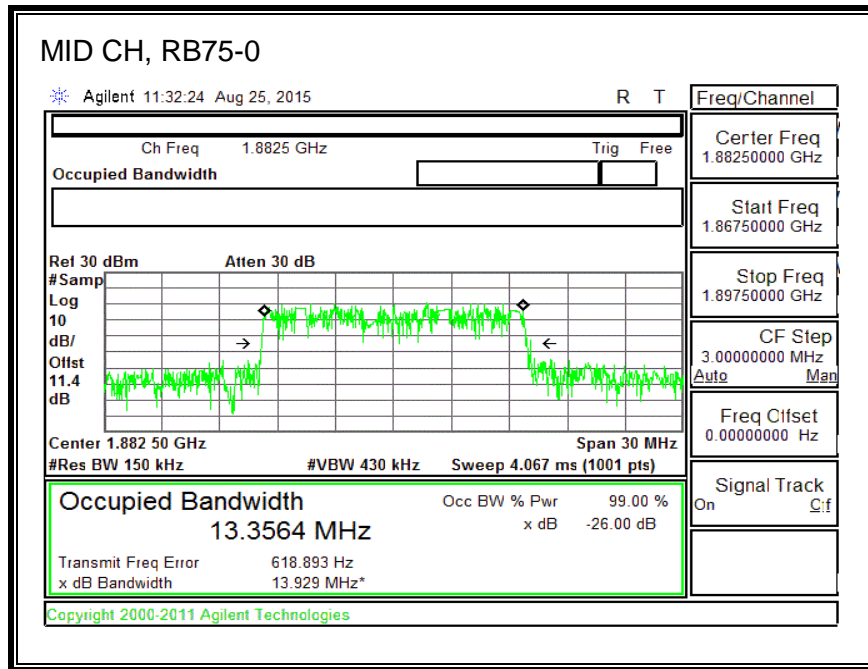
QPSK, (10.0 MHz BAND WIDTH)



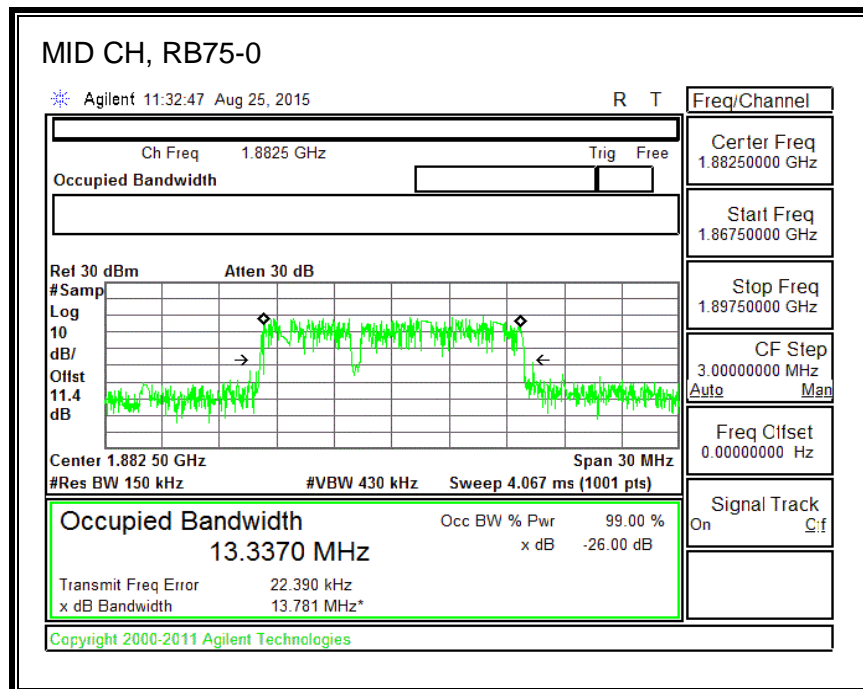
16QAM, (10.0 MHz BAND WIDTH)



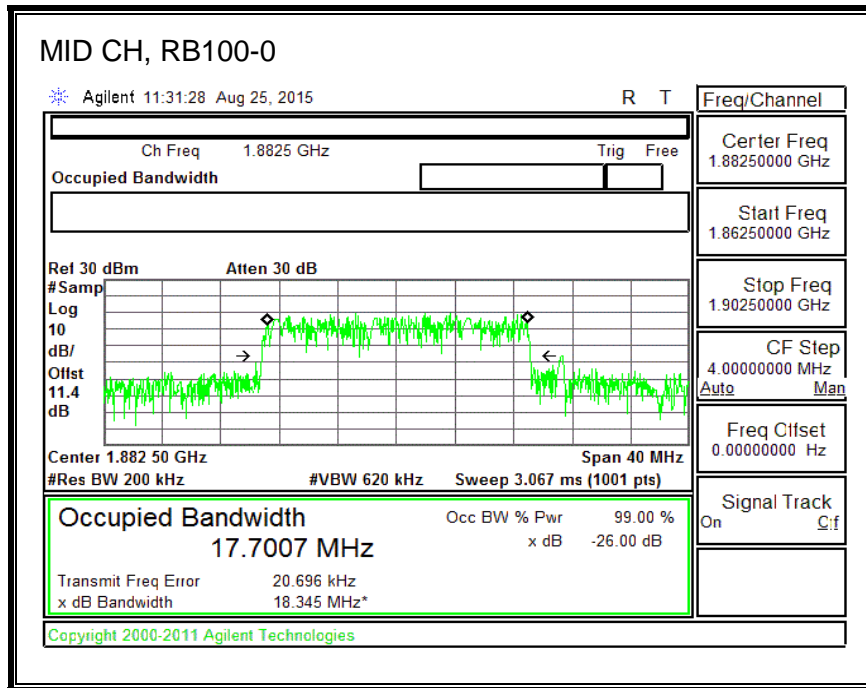
QPSK, (15.0 MHz BAND WIDTH)



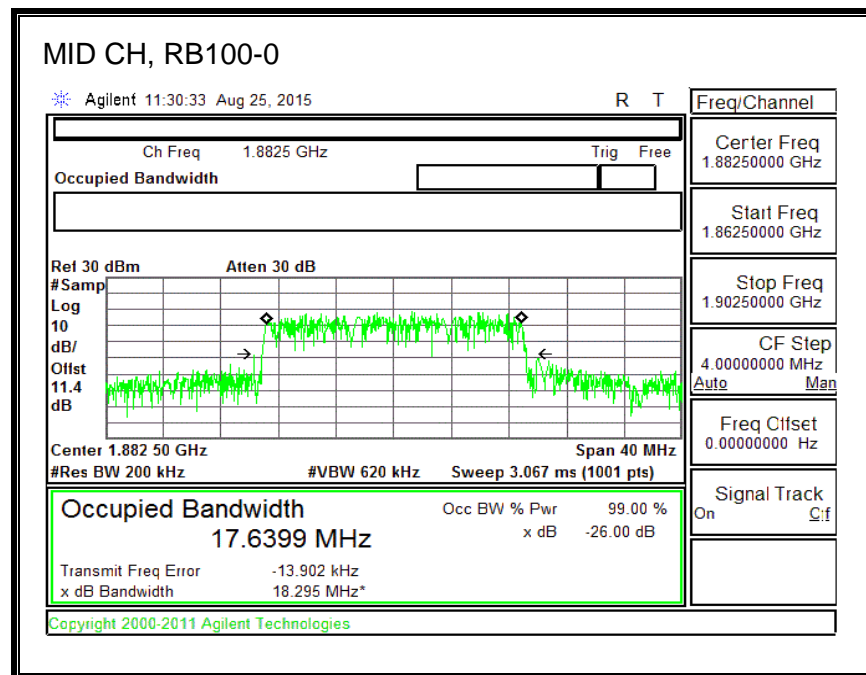
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

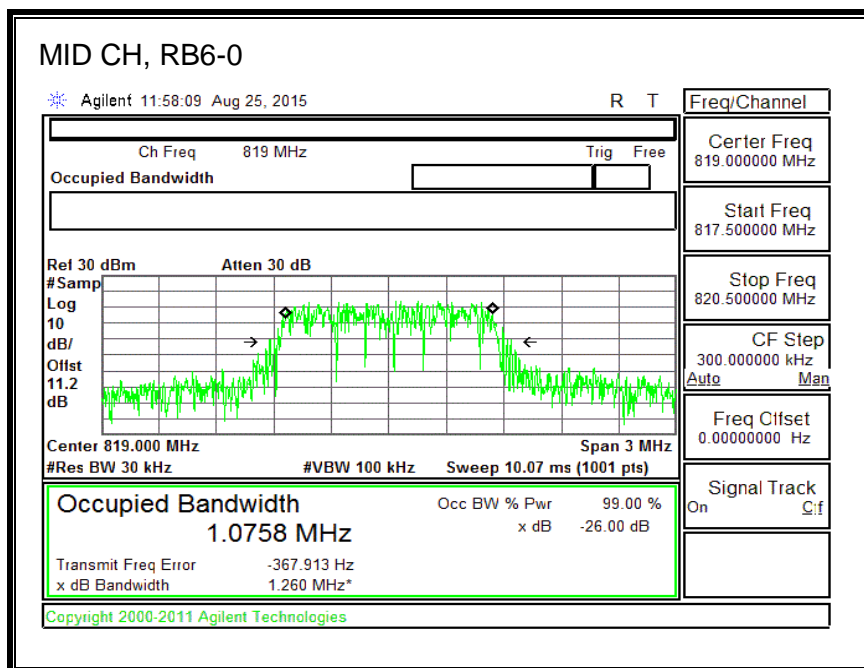
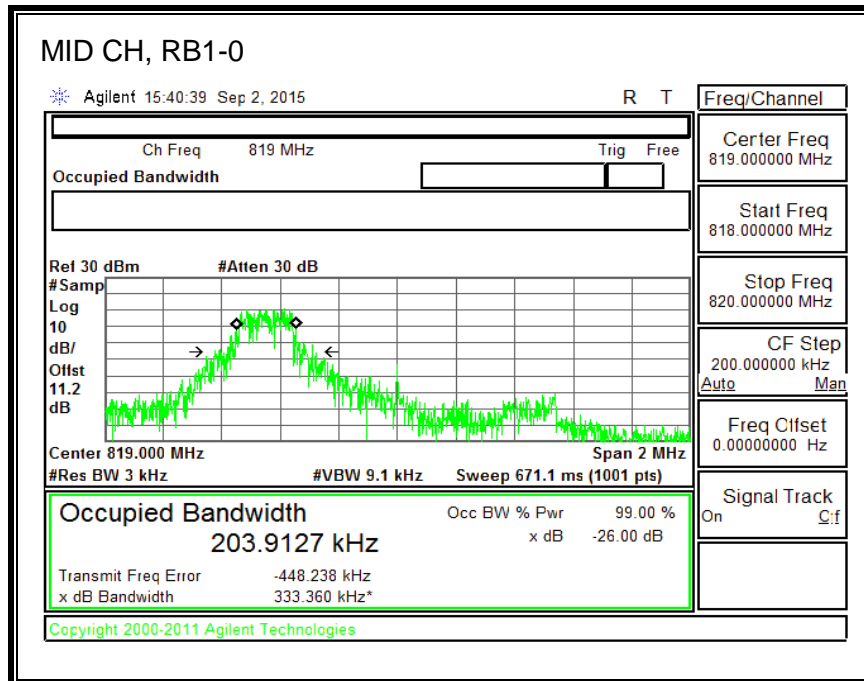


16QAM, (20.0 MHz BAND WIDTH)

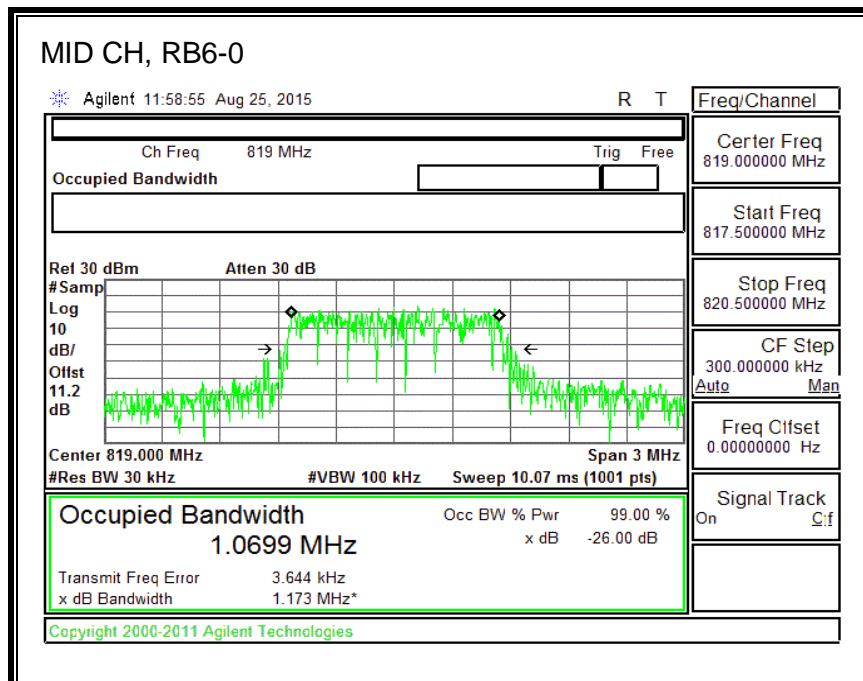
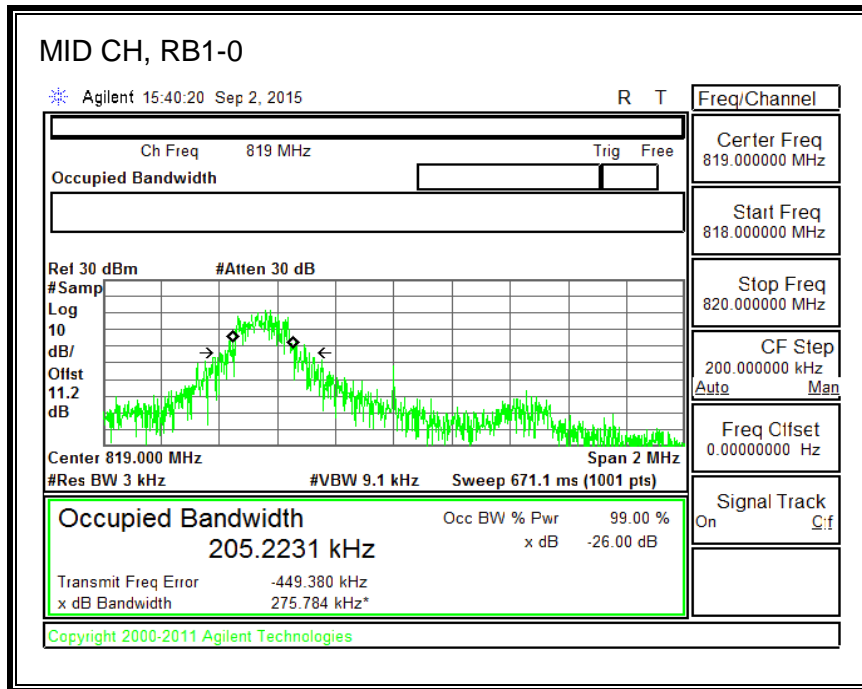


8.1.8. LTE BAND 26

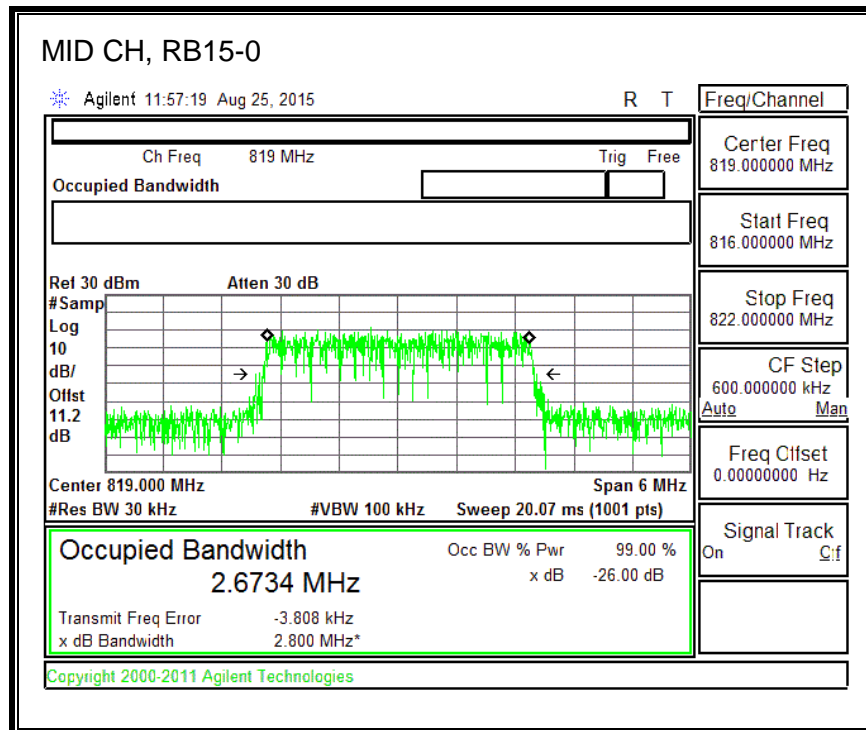
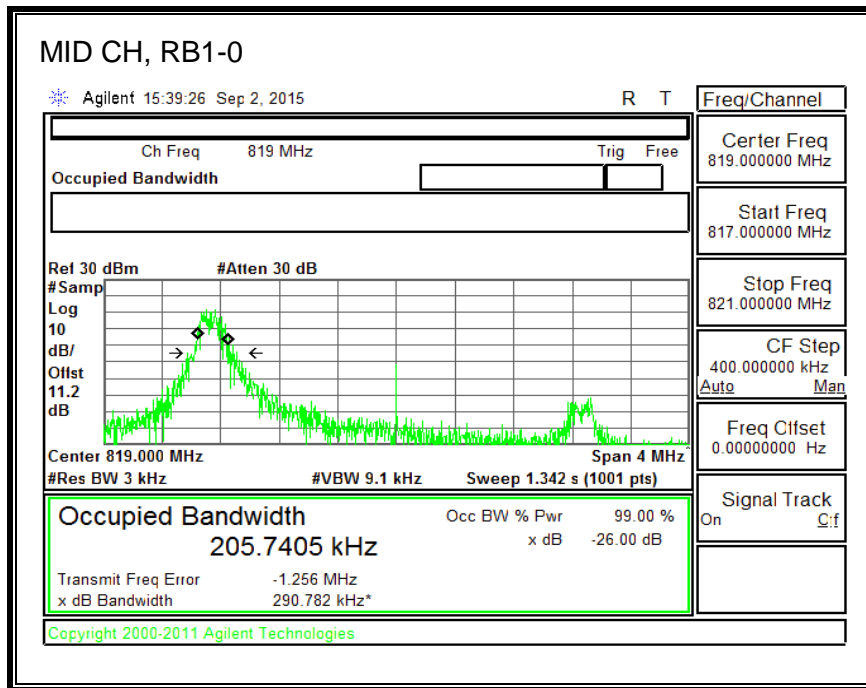
QPSK, (1.4 MHz BAND WIDTH)



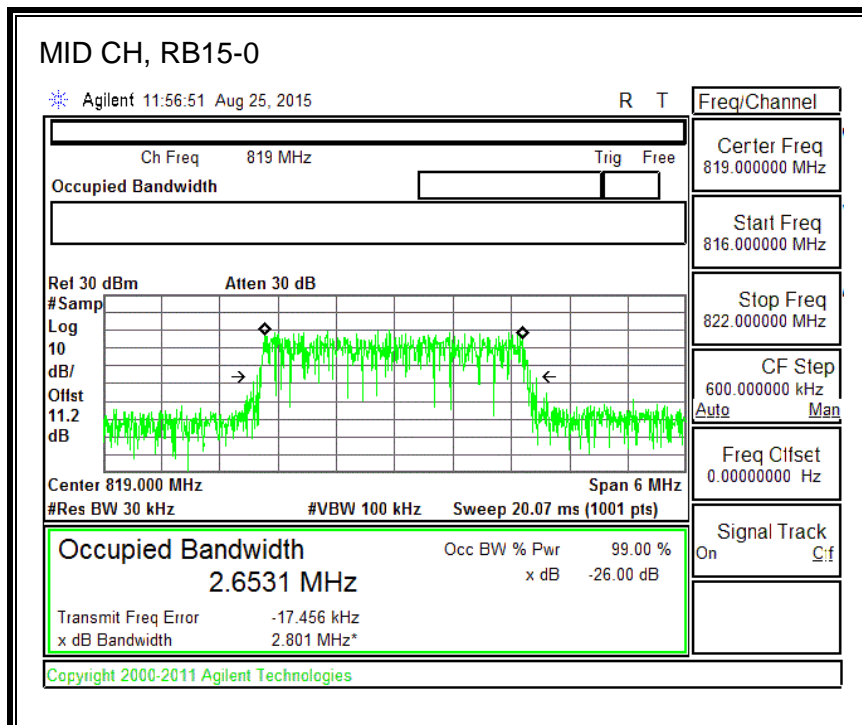
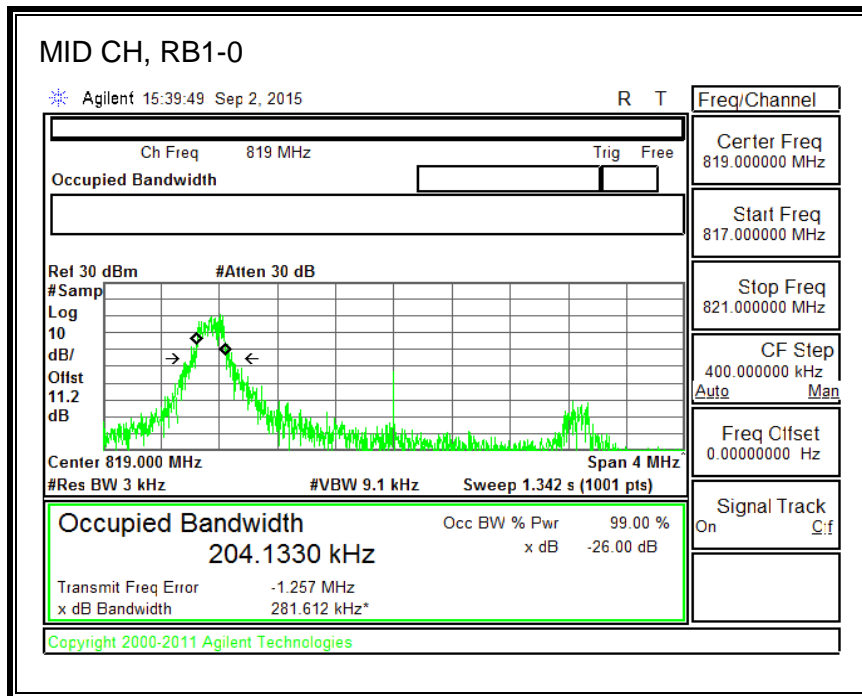
16QAM, (1.4 MHz BAND WIDTH)



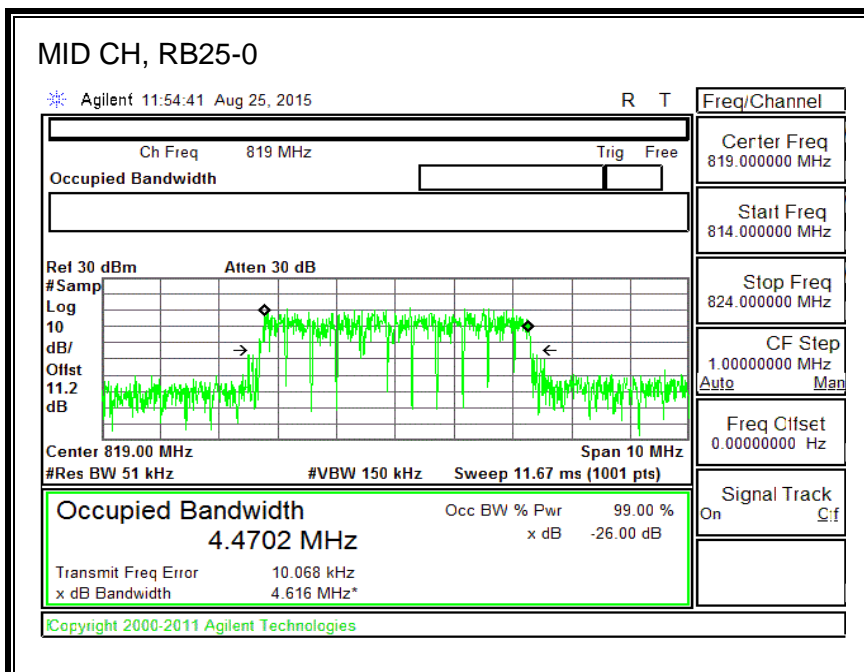
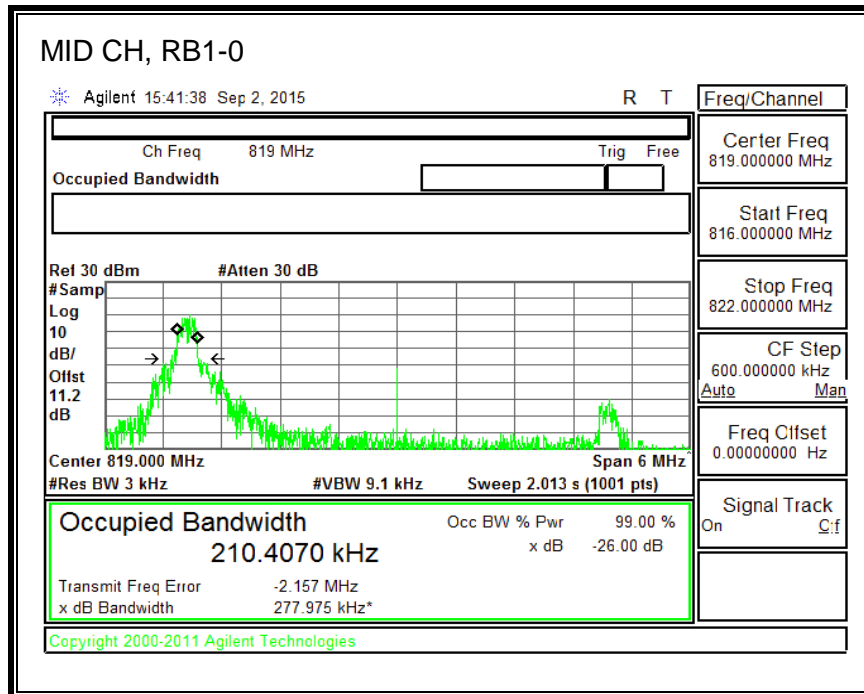
QPSK, (3.0 MHz BAND WIDTH)



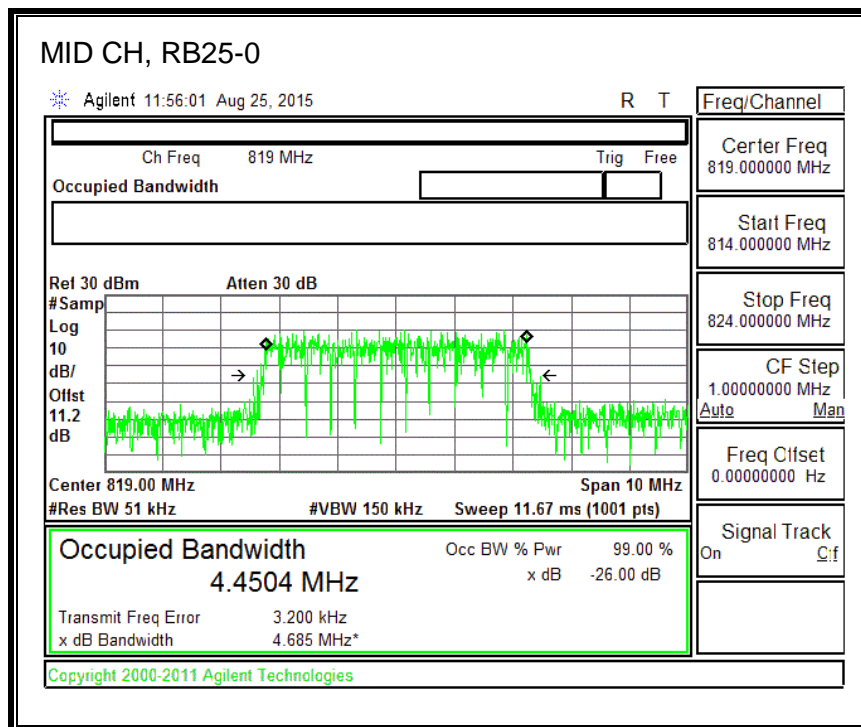
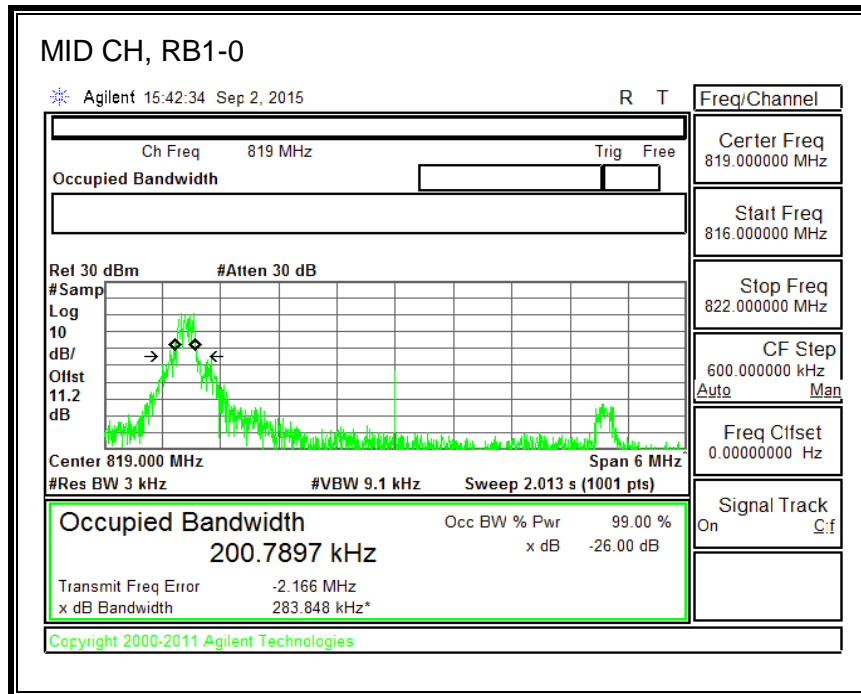
16QAM, (3.0 MHz BAND WIDTH)



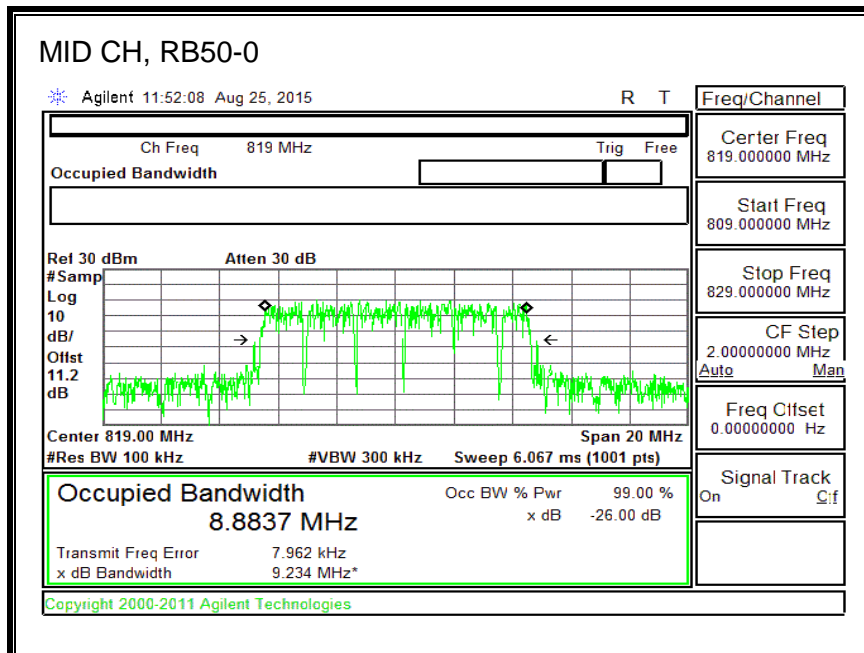
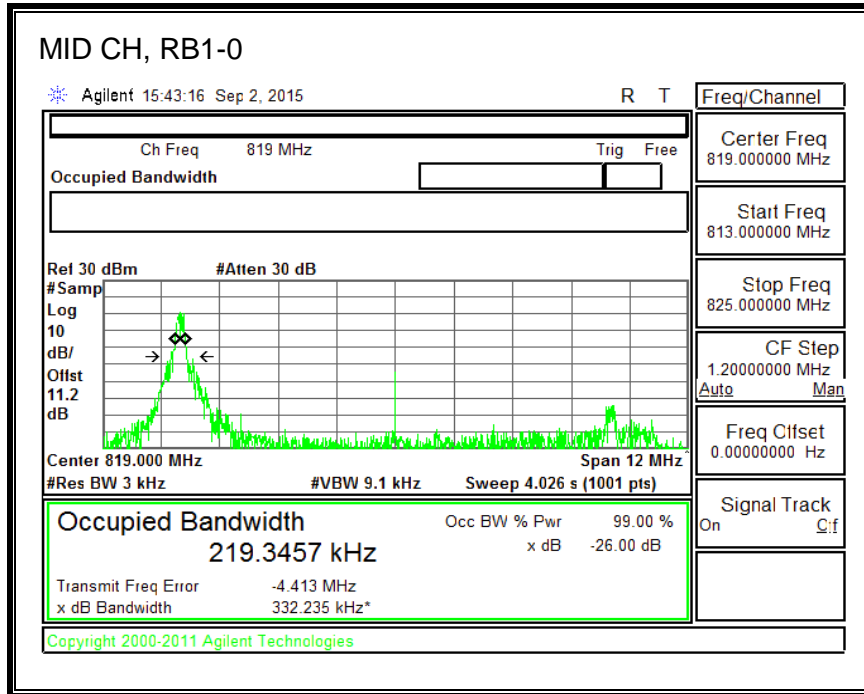
QPSK, (5.0 MHz BAND WIDTH)



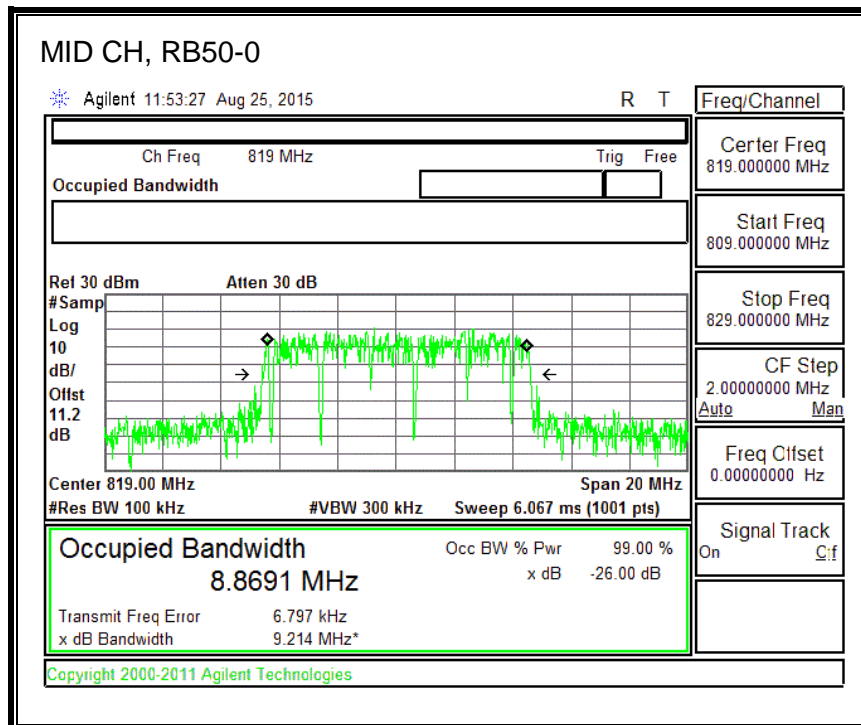
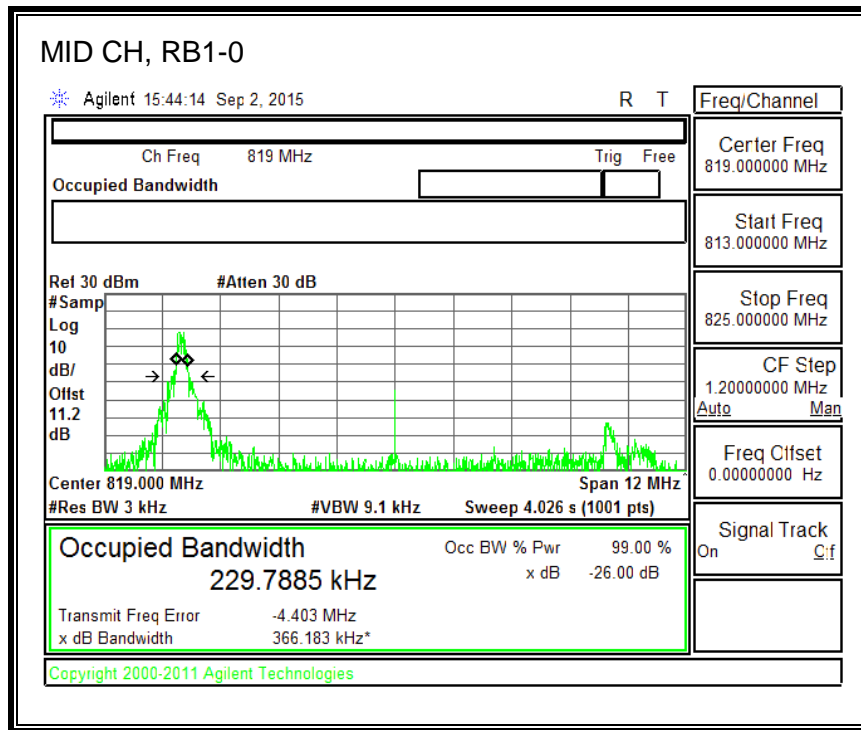
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)



16QAM, (10.0 MHz BAND WIDTH)



8.2. BANEDGE 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.

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.

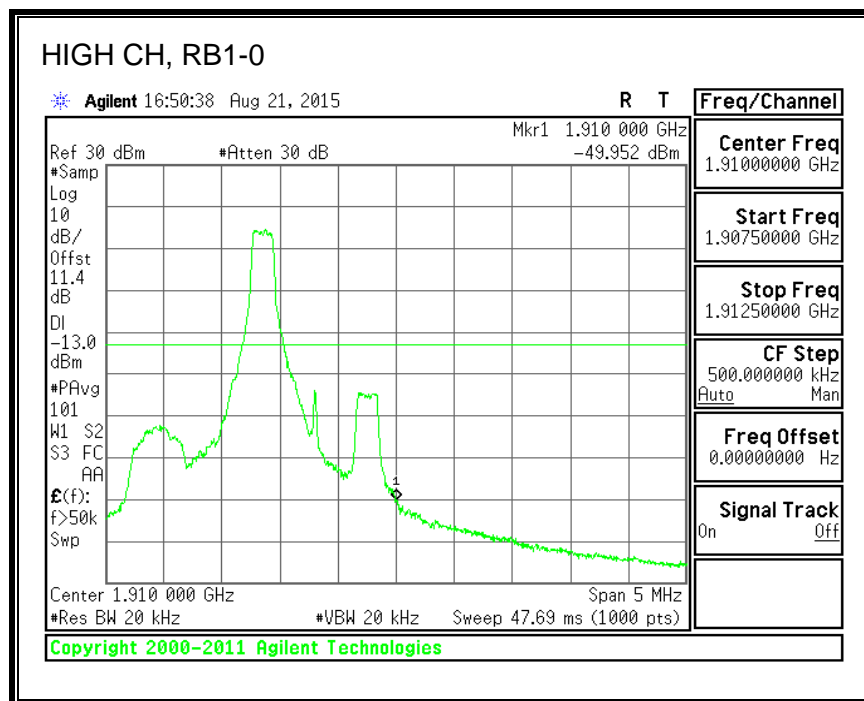
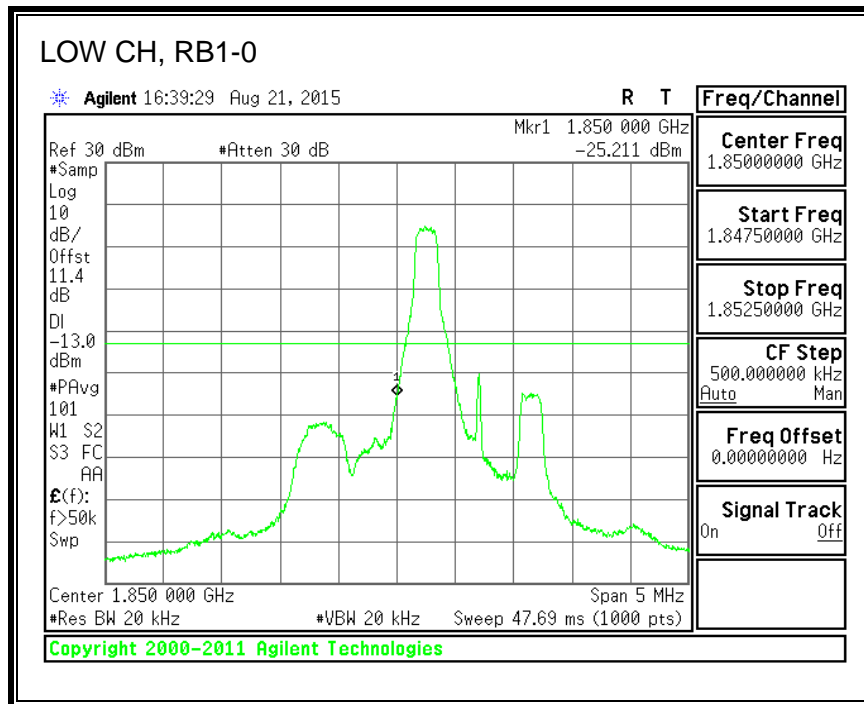
MODES TESTED

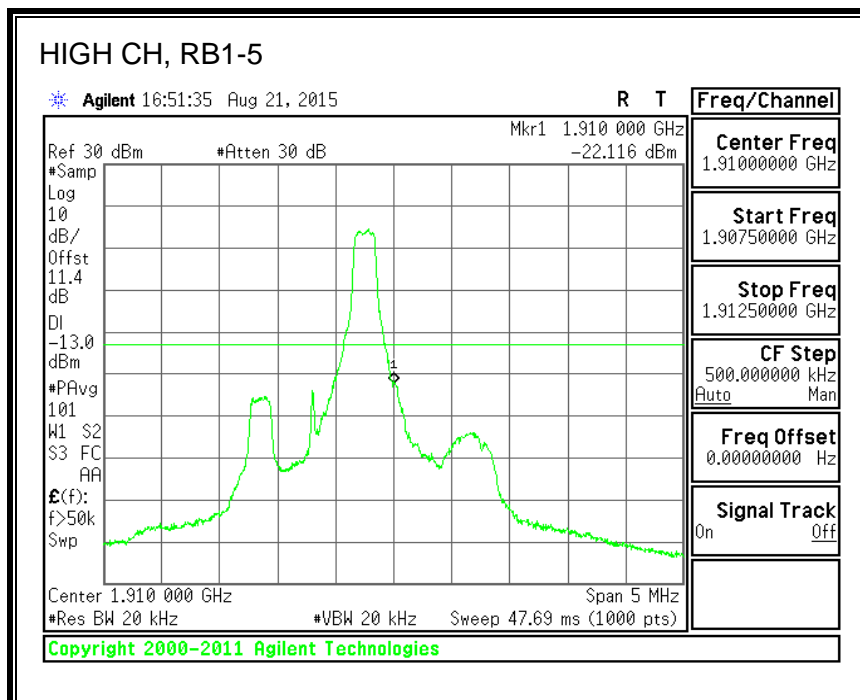
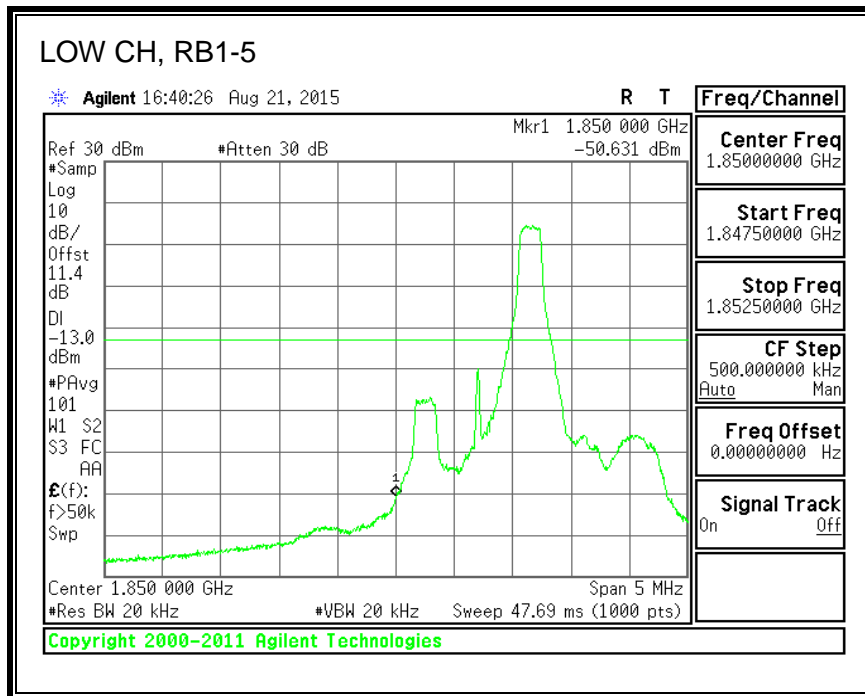
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26

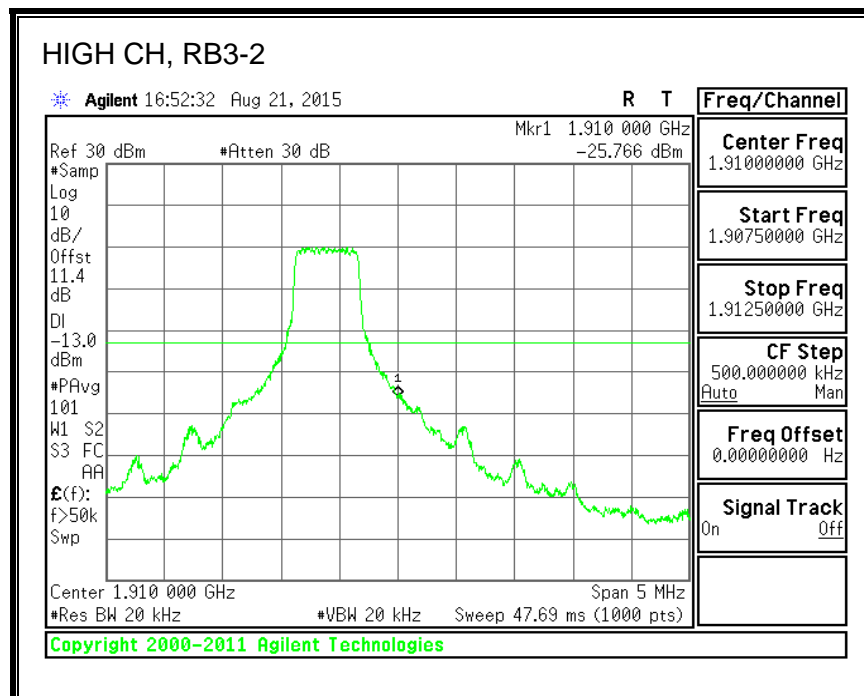
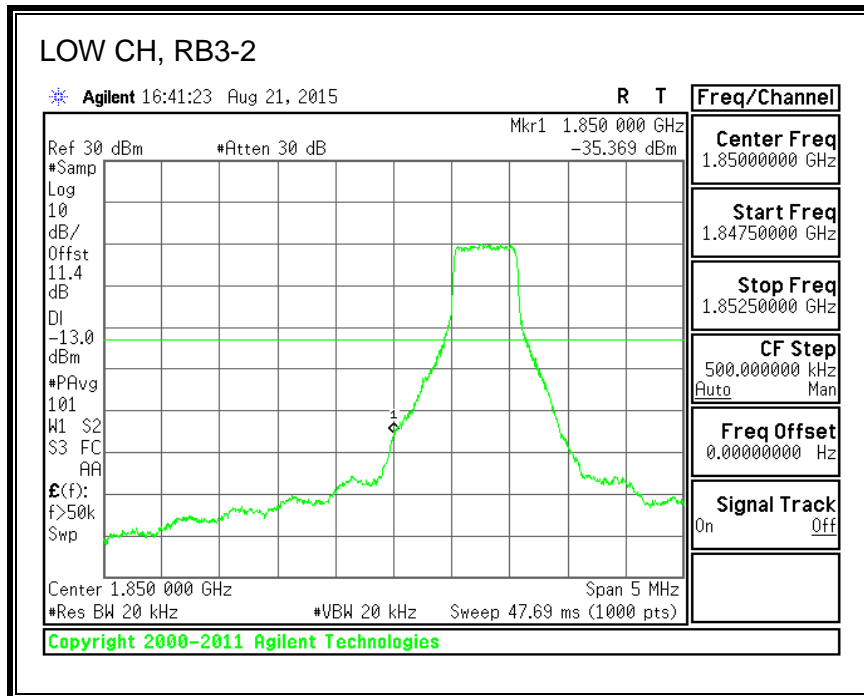
RESULTS

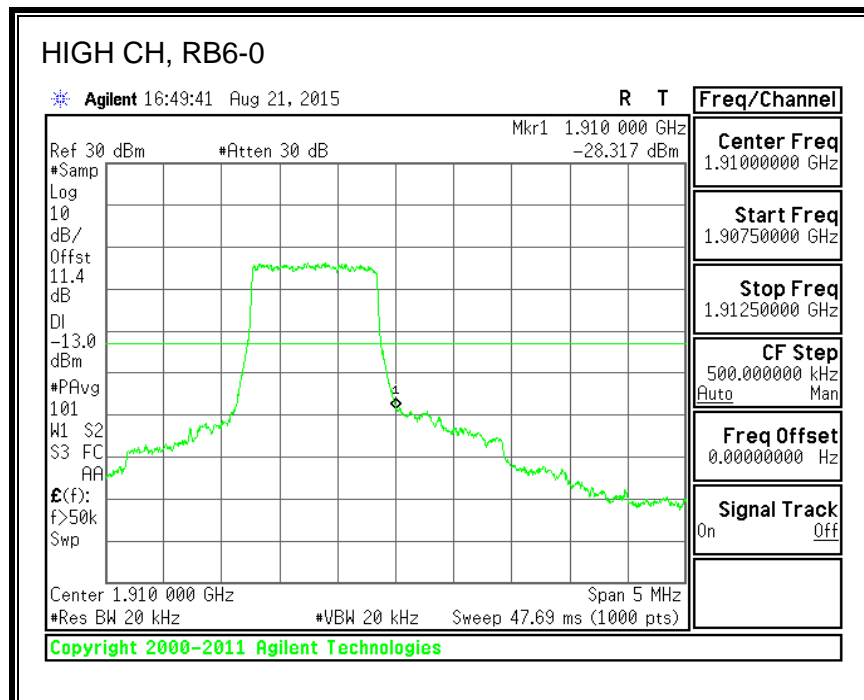
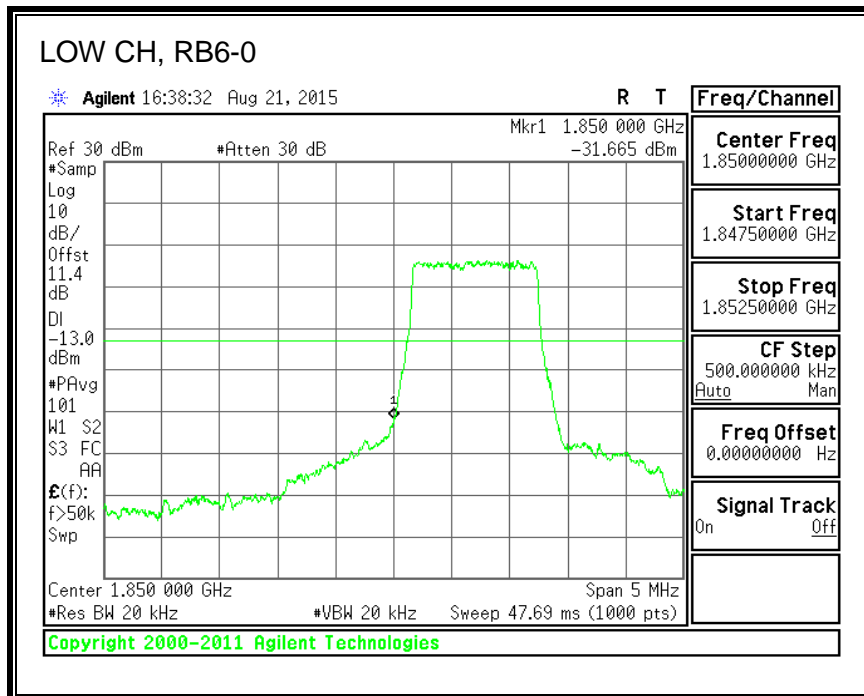
8.2.1. LTE BAND 2 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

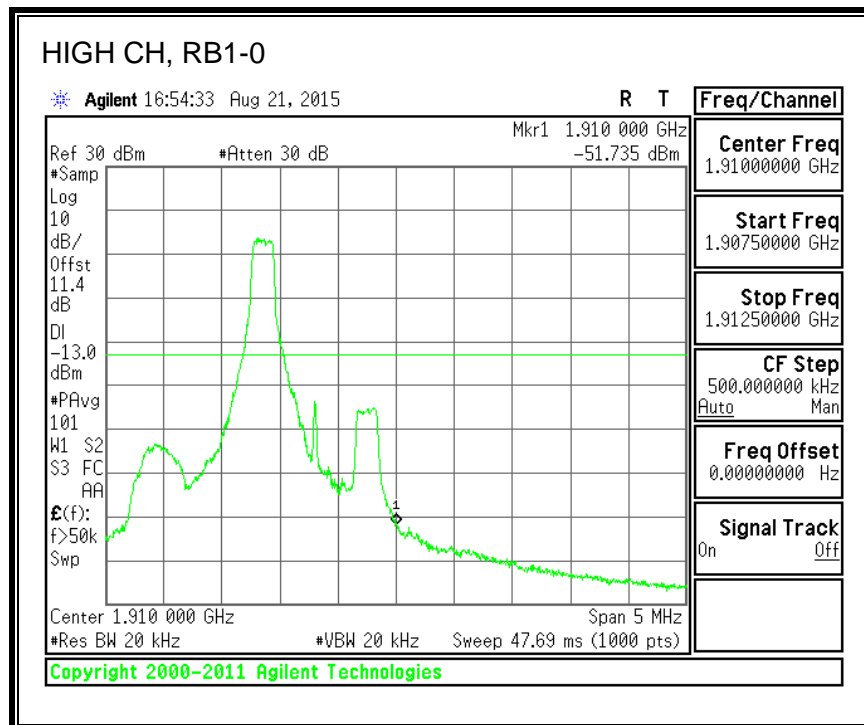
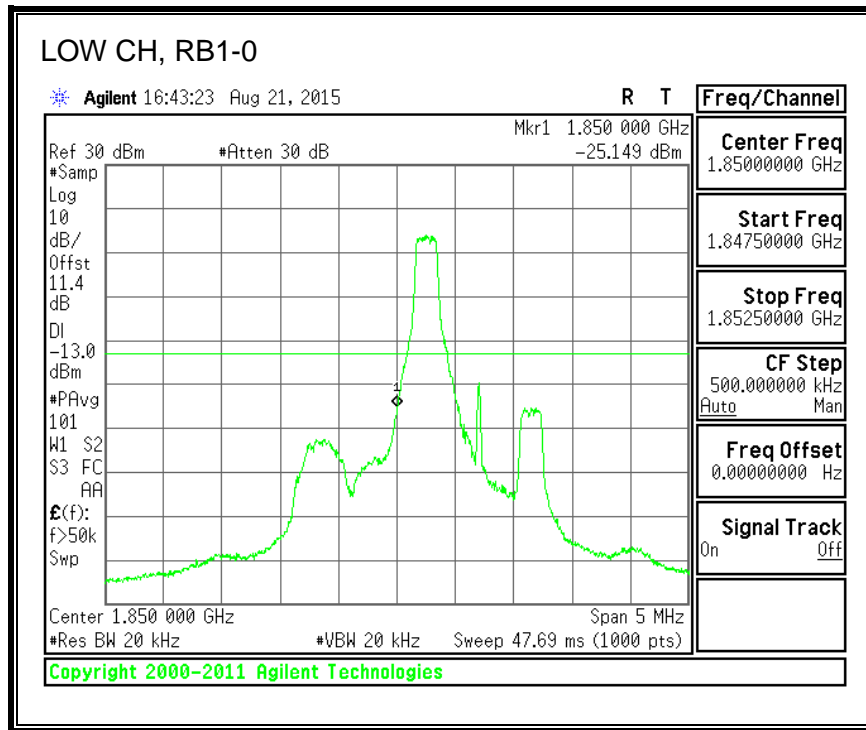


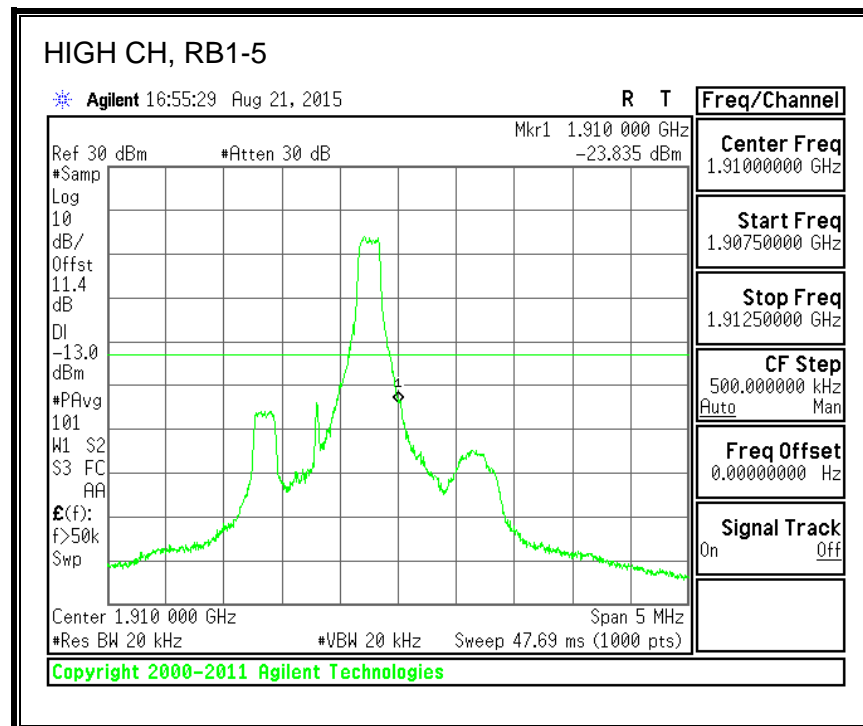
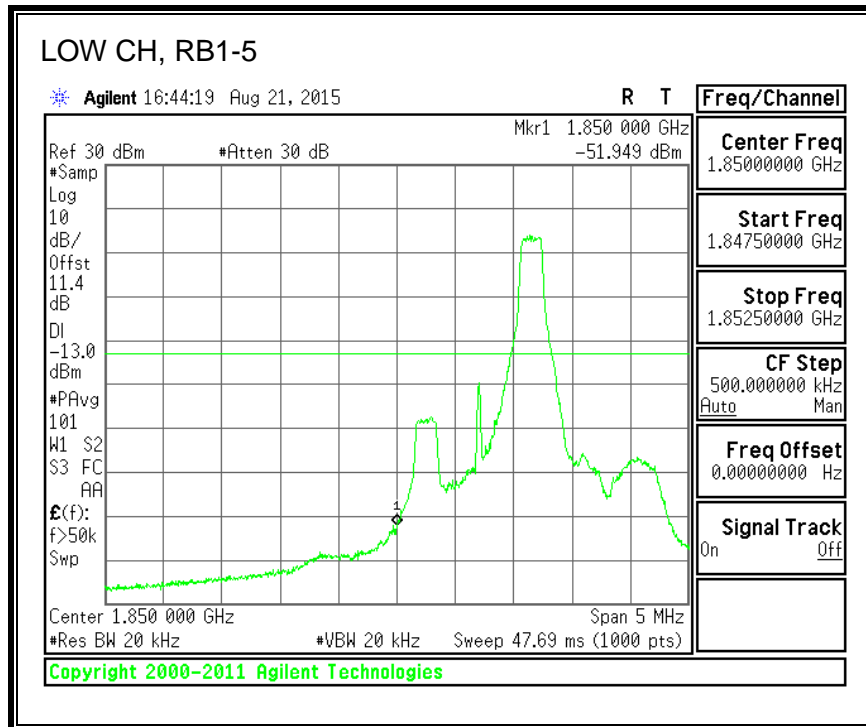


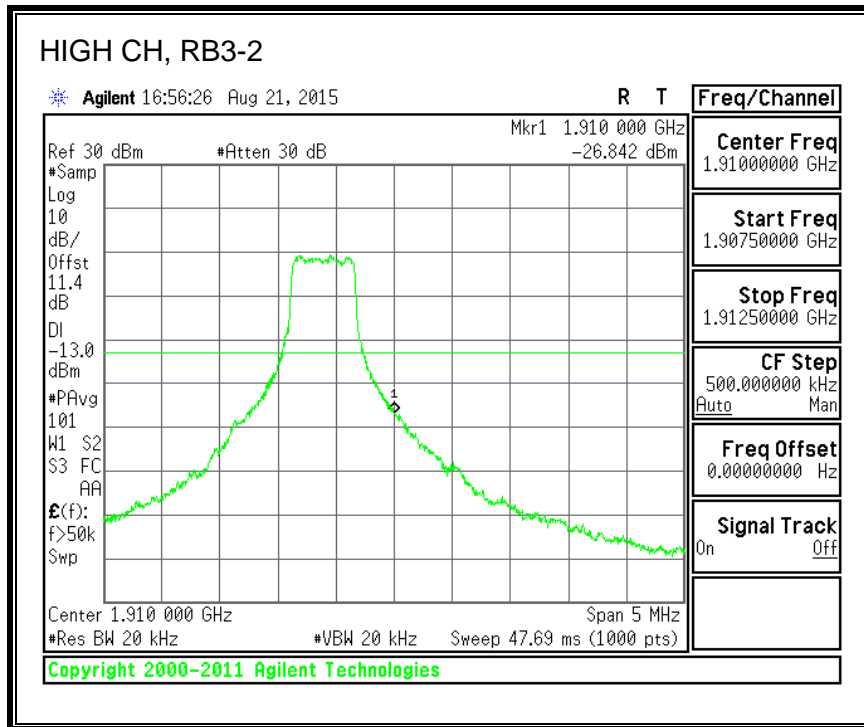
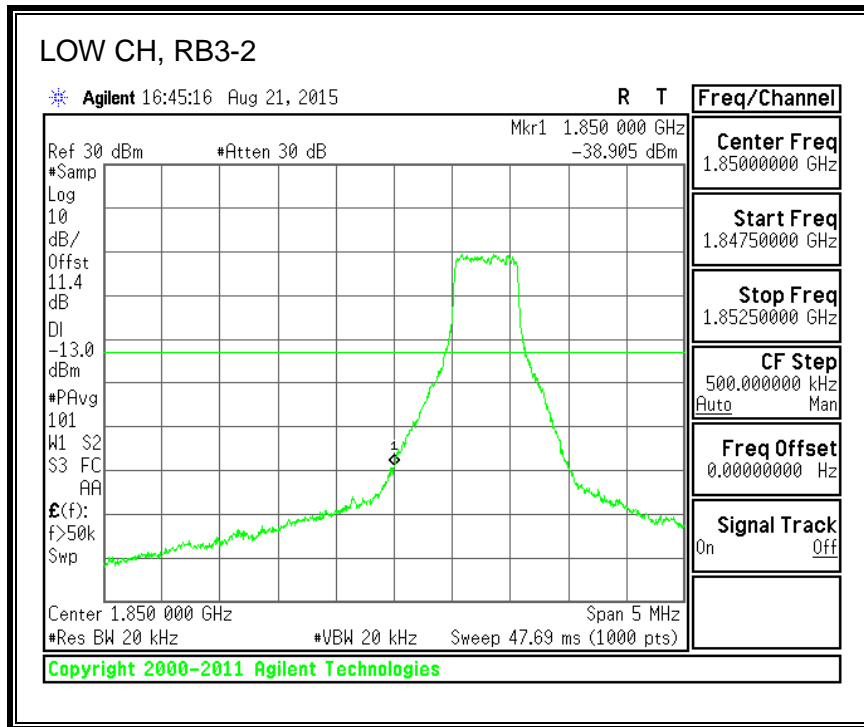


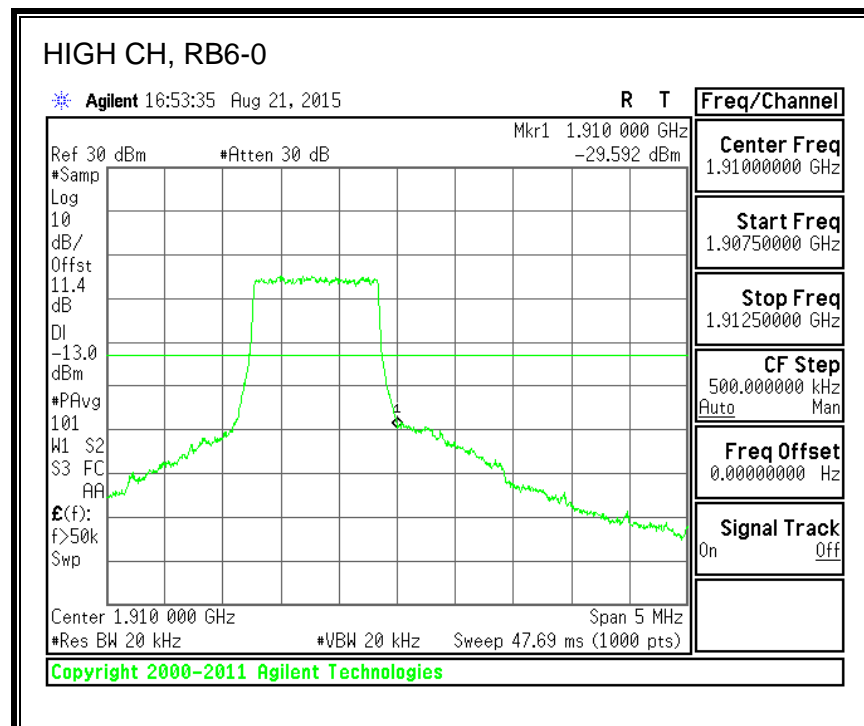
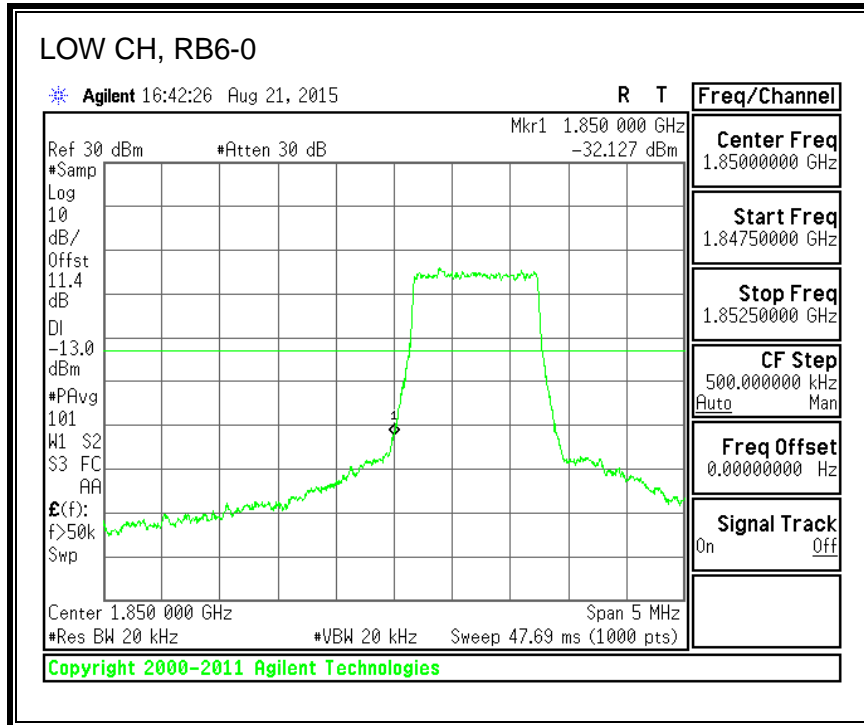


16QAM, (1.4 MHz BAND WIDTH)

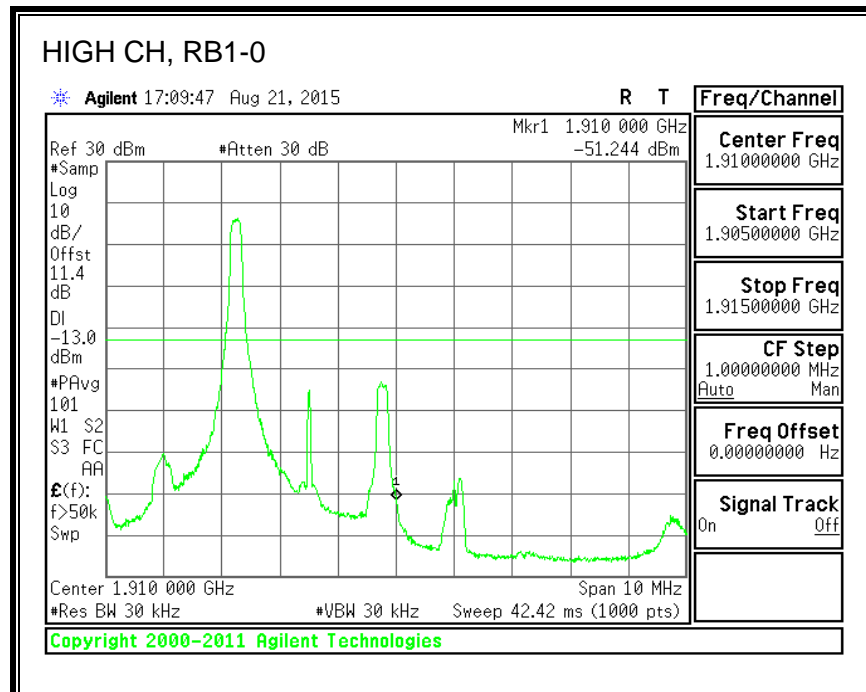
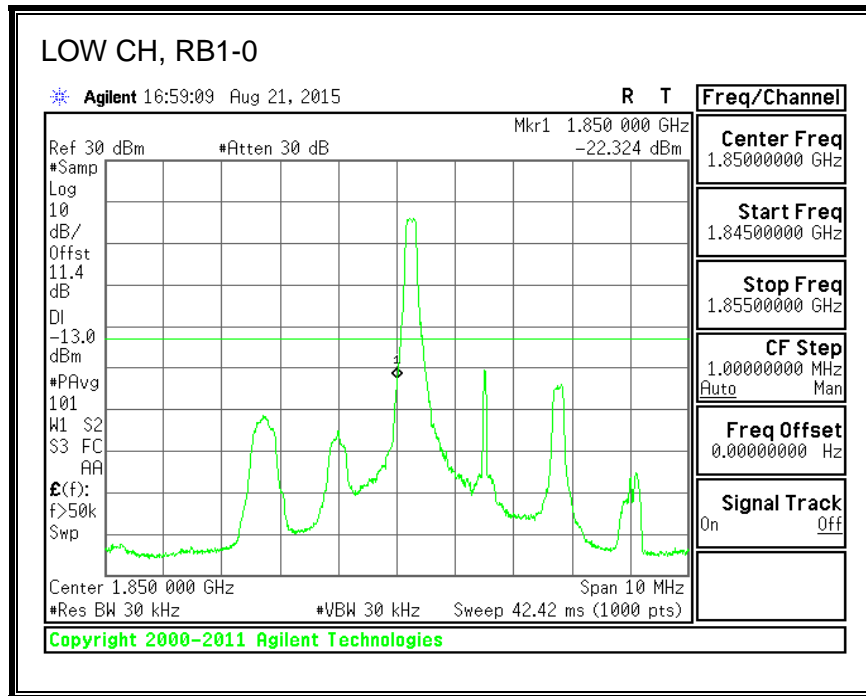


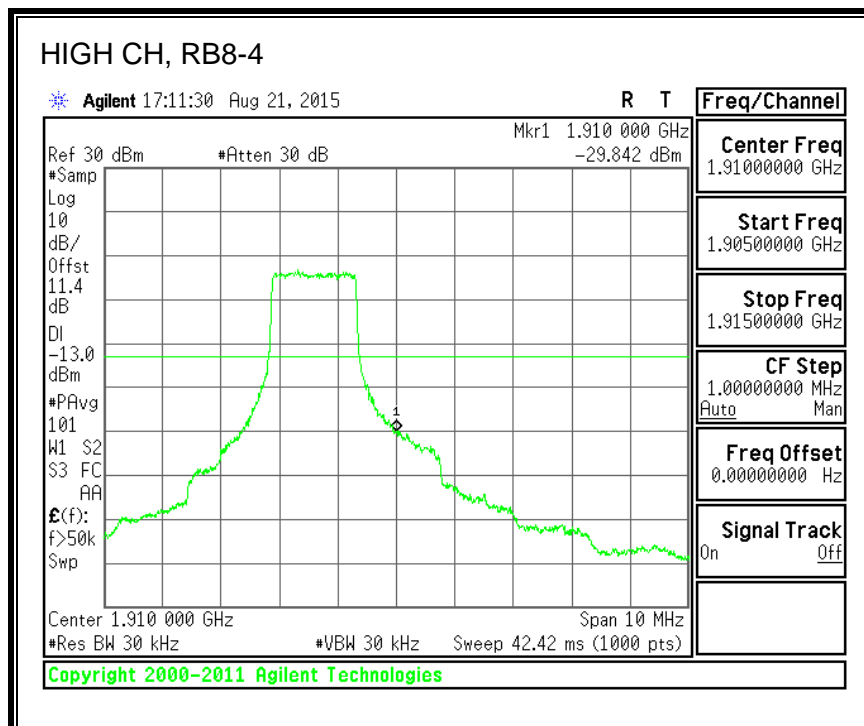
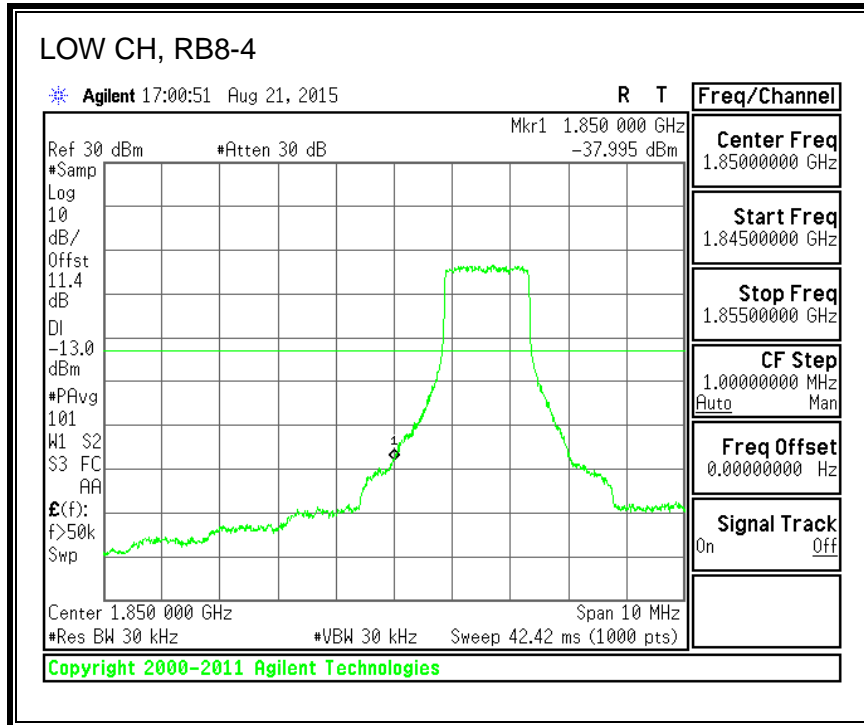


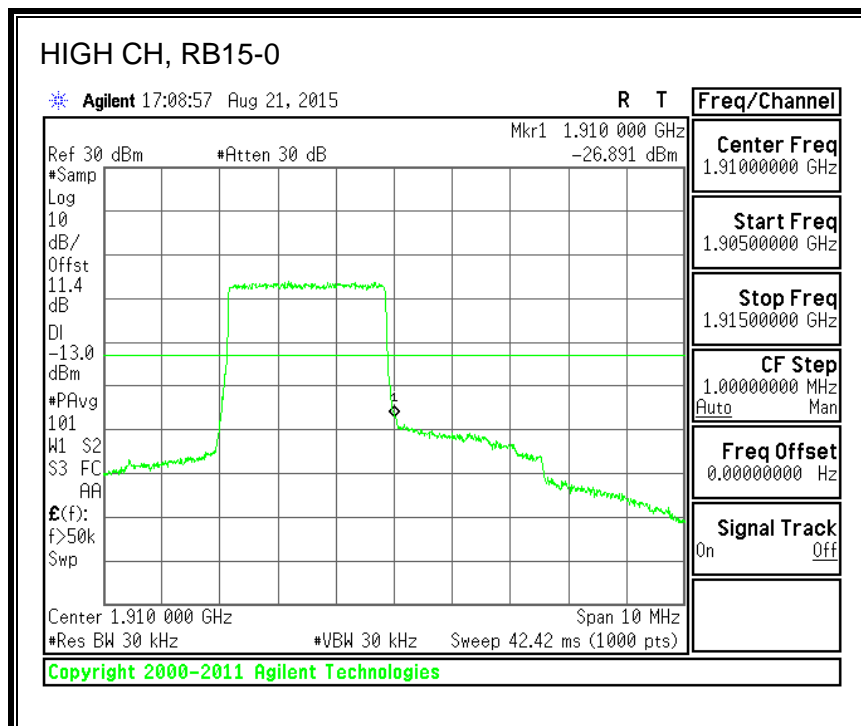
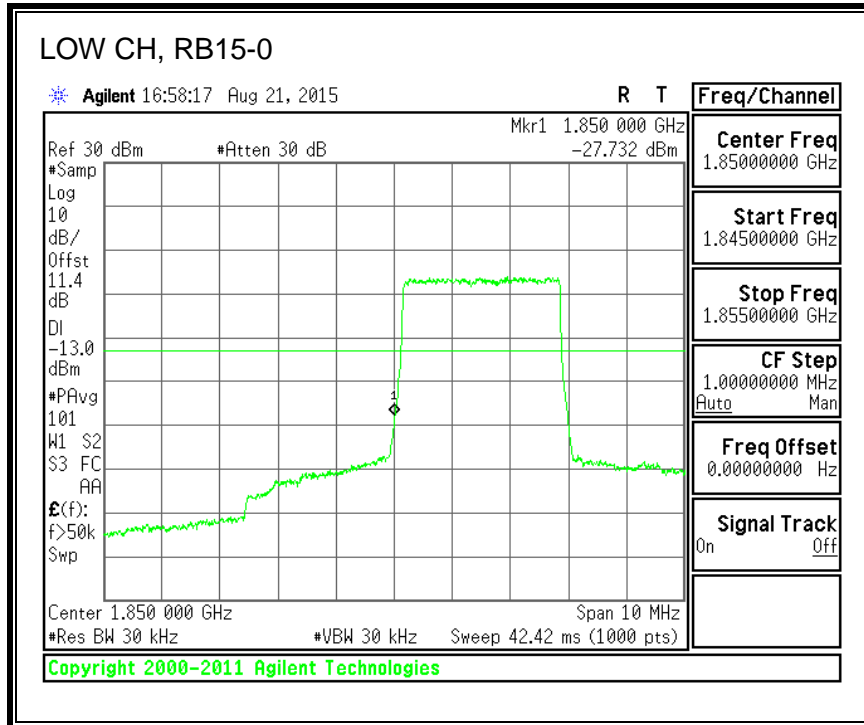




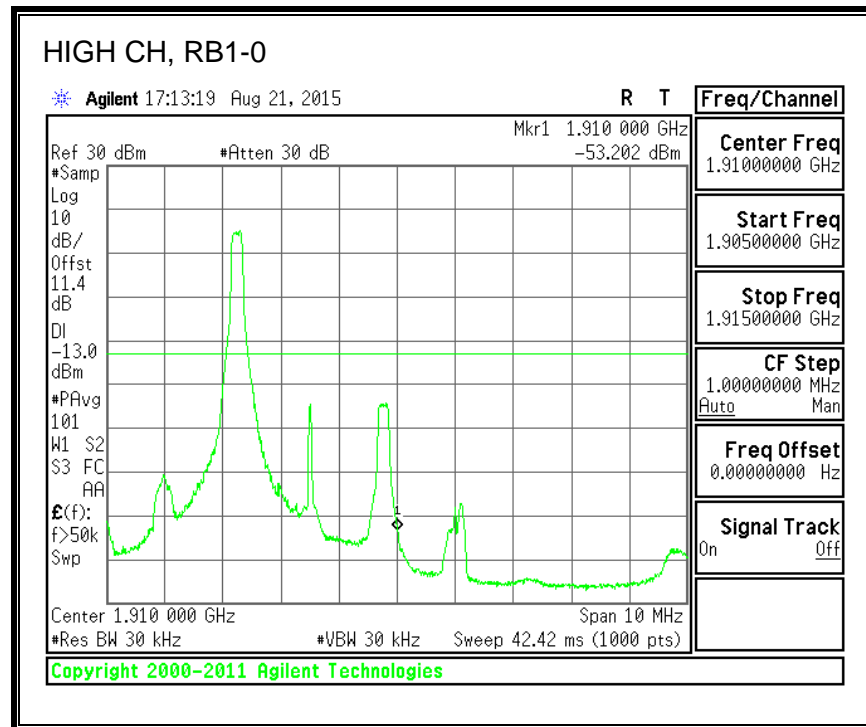
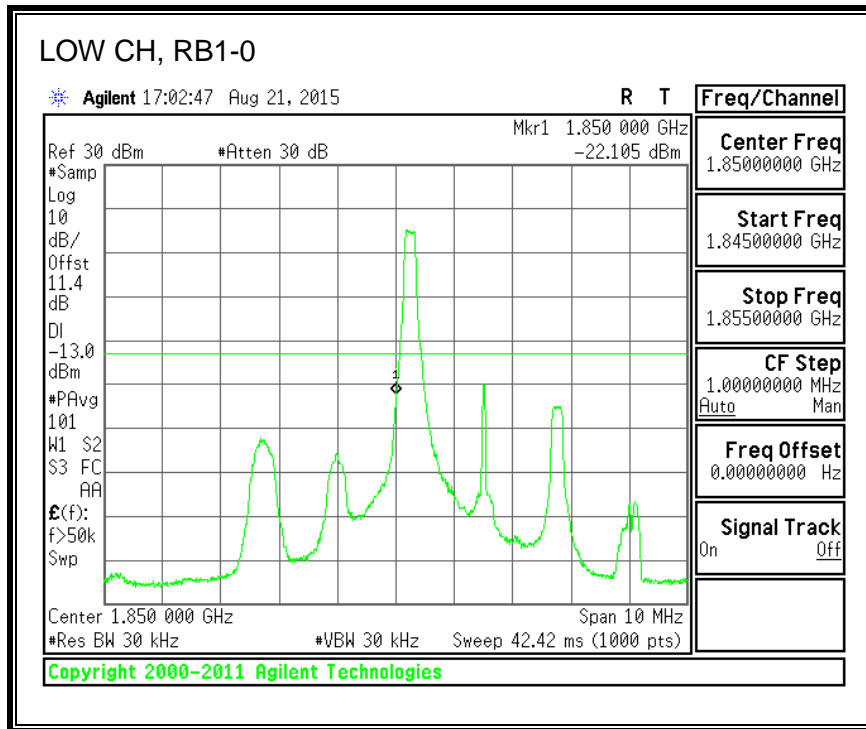
QPSK, (3.0 MHz BAND WIDTH)

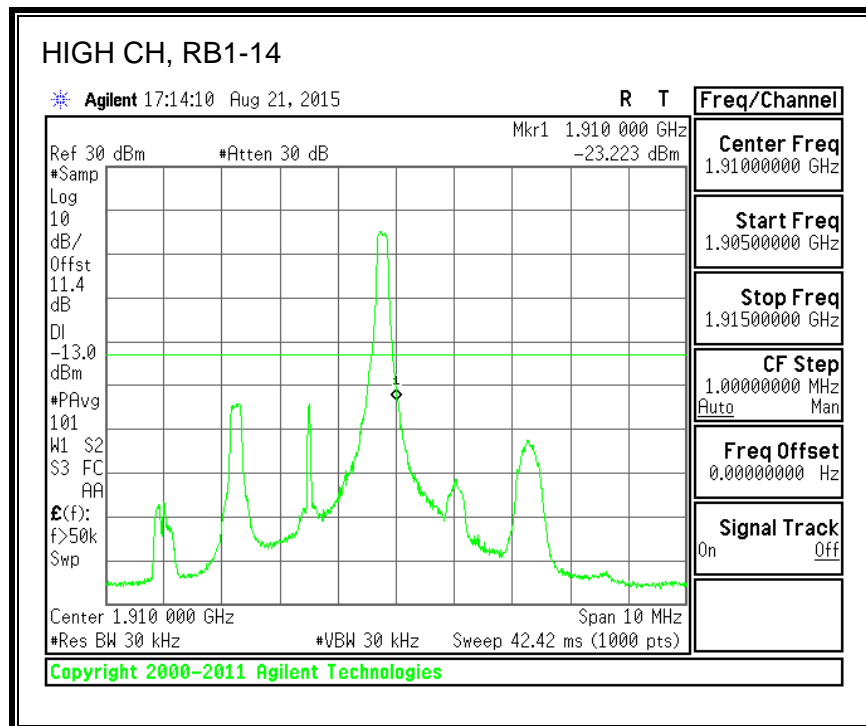
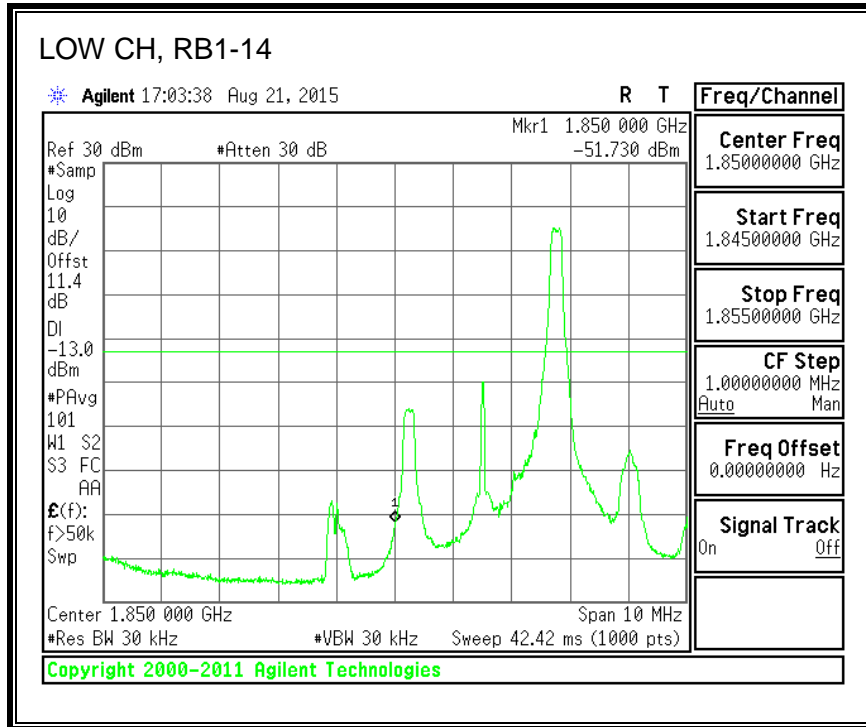


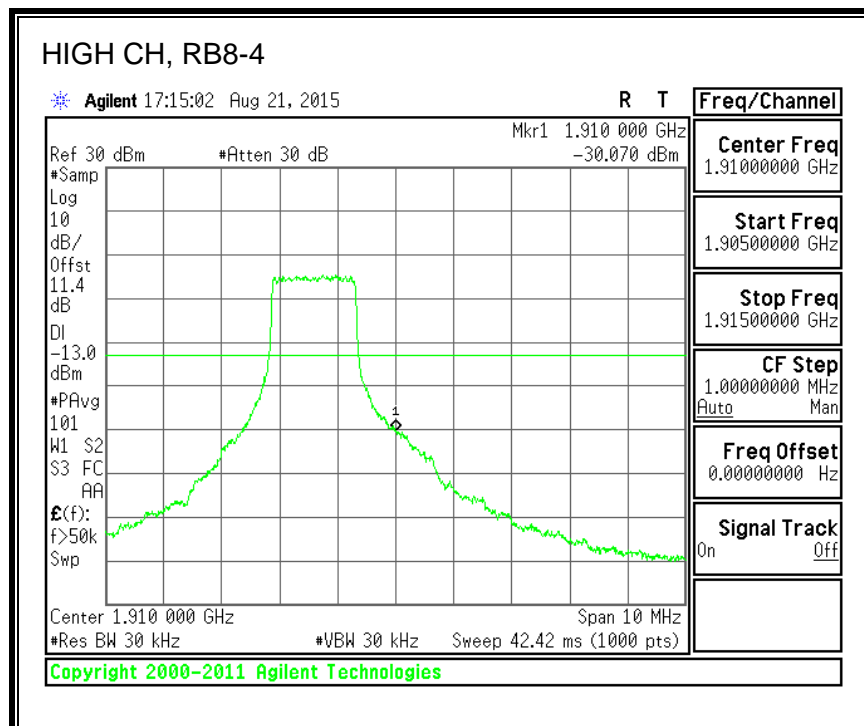
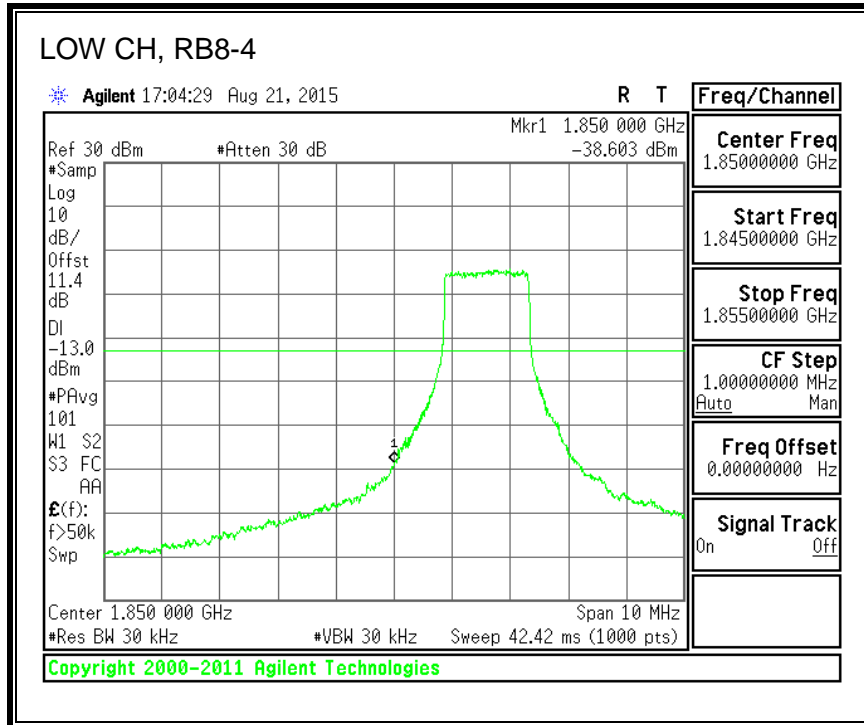


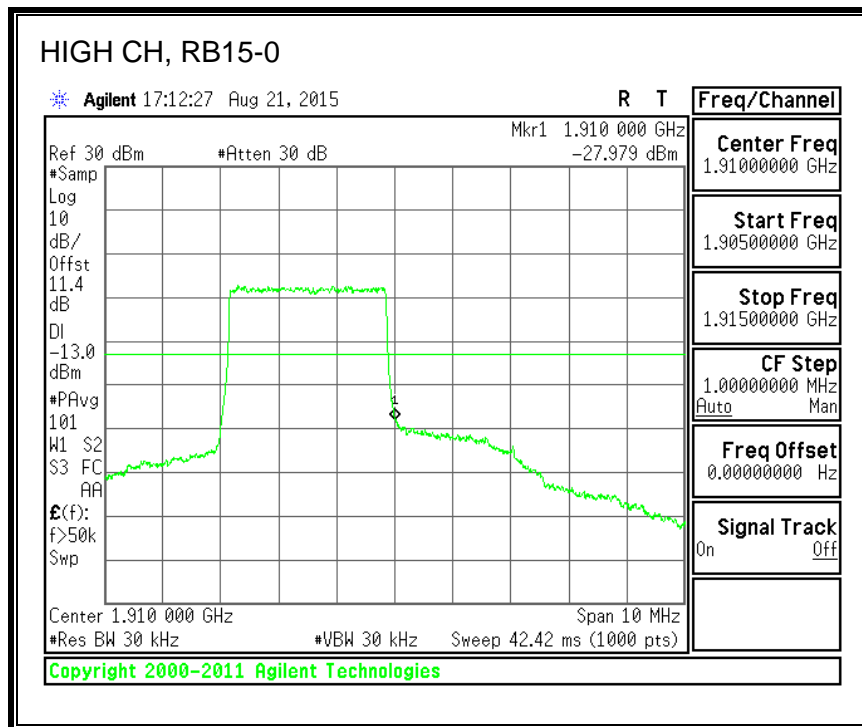
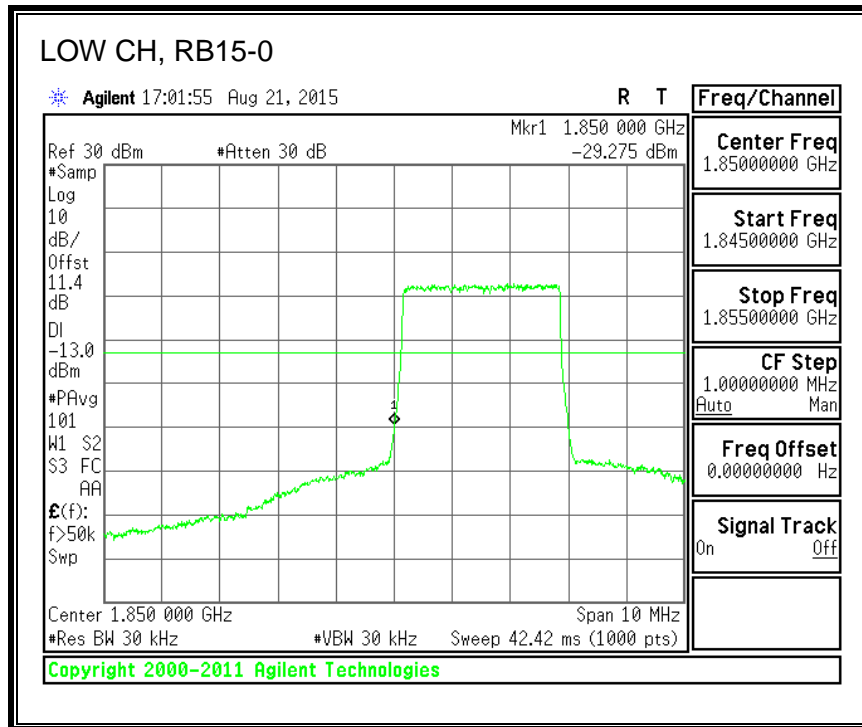


16QAM, (3.0 MHz BAND WIDTH)

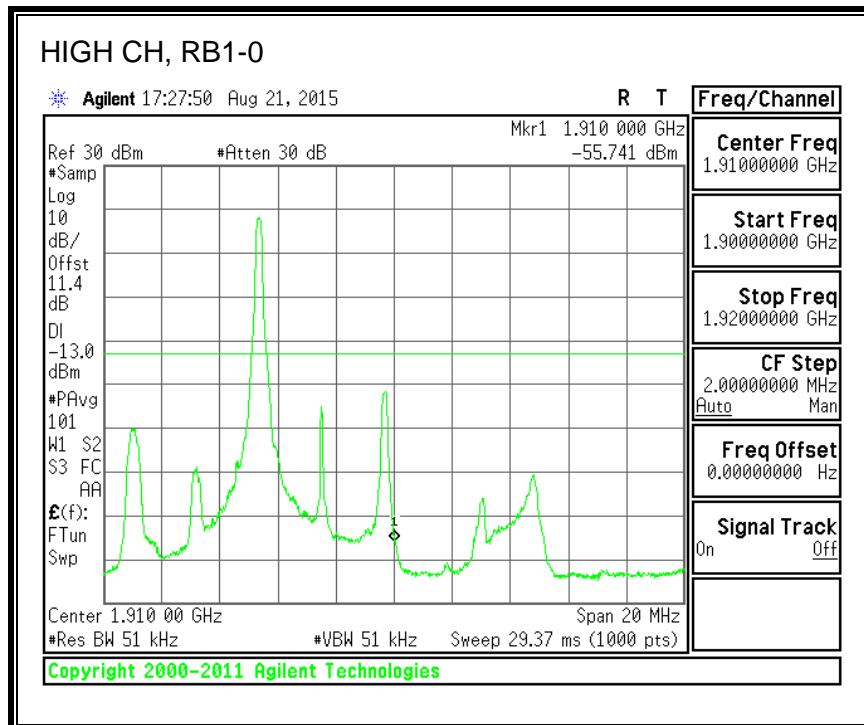
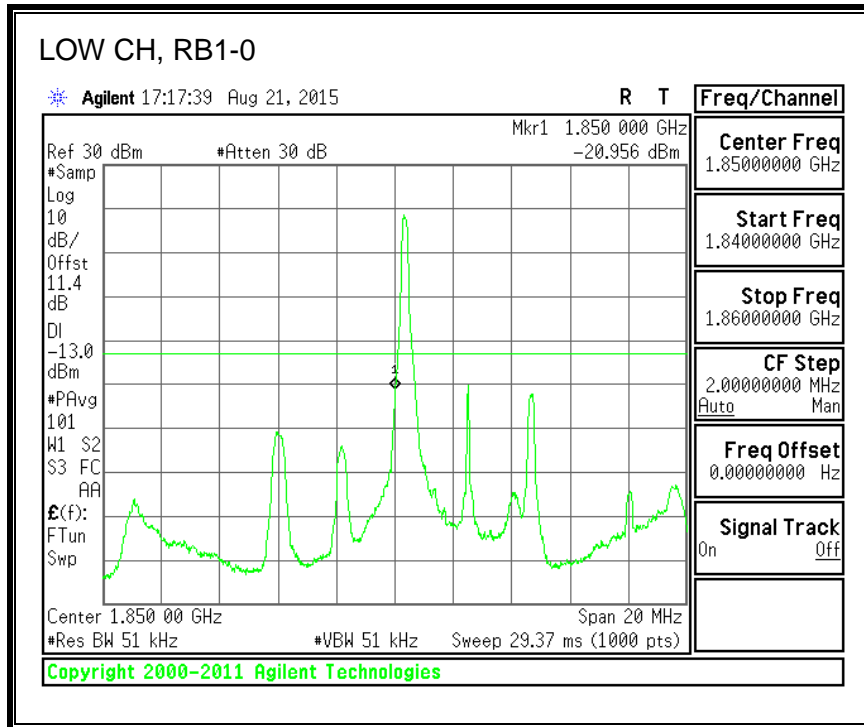


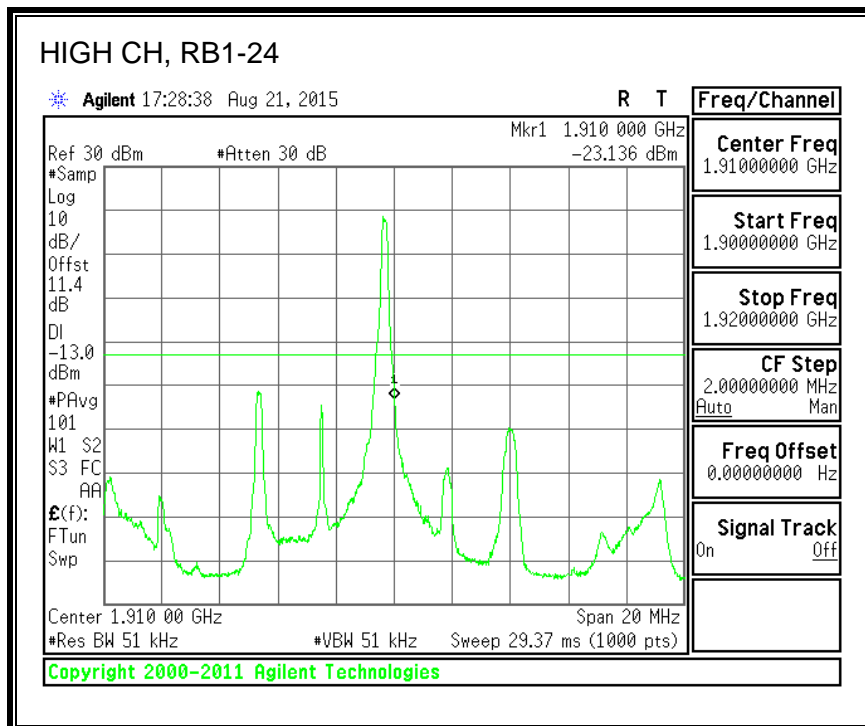
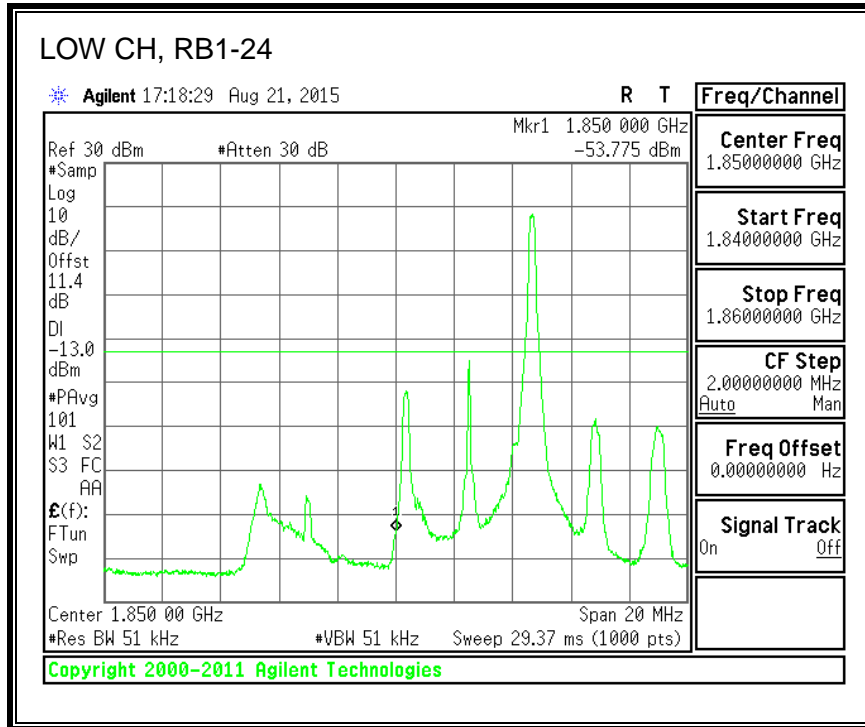


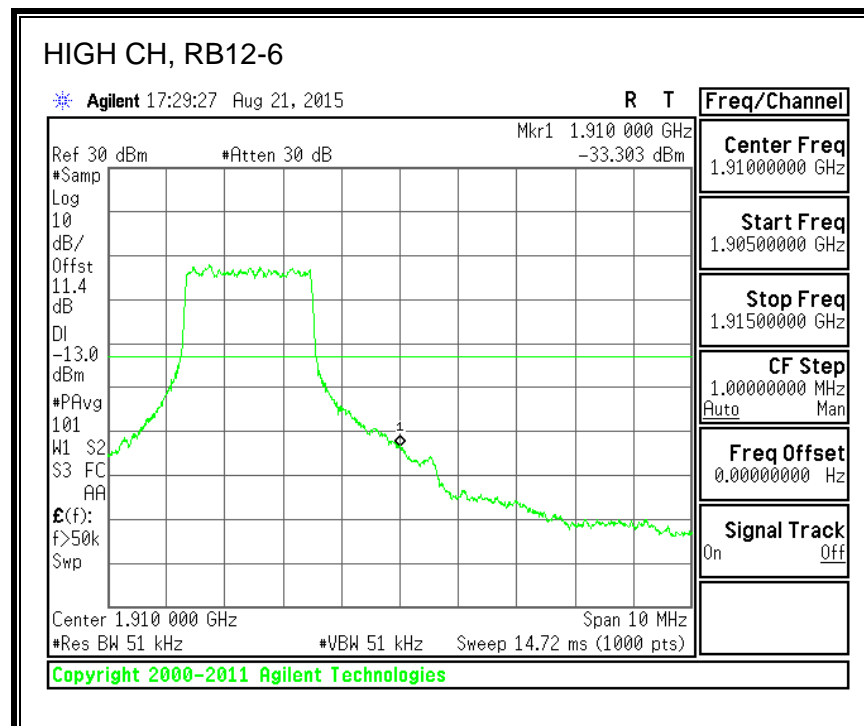
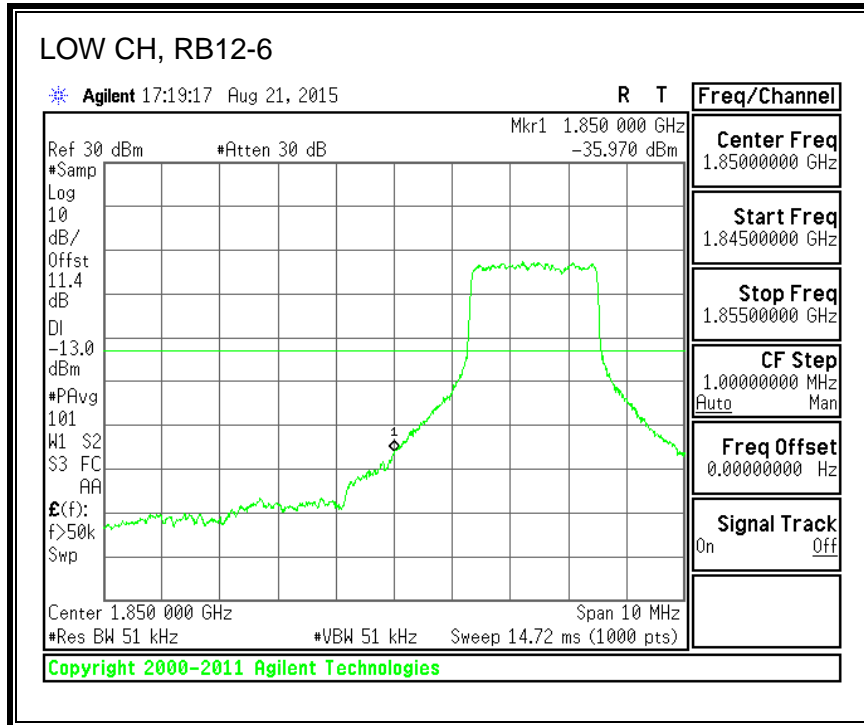


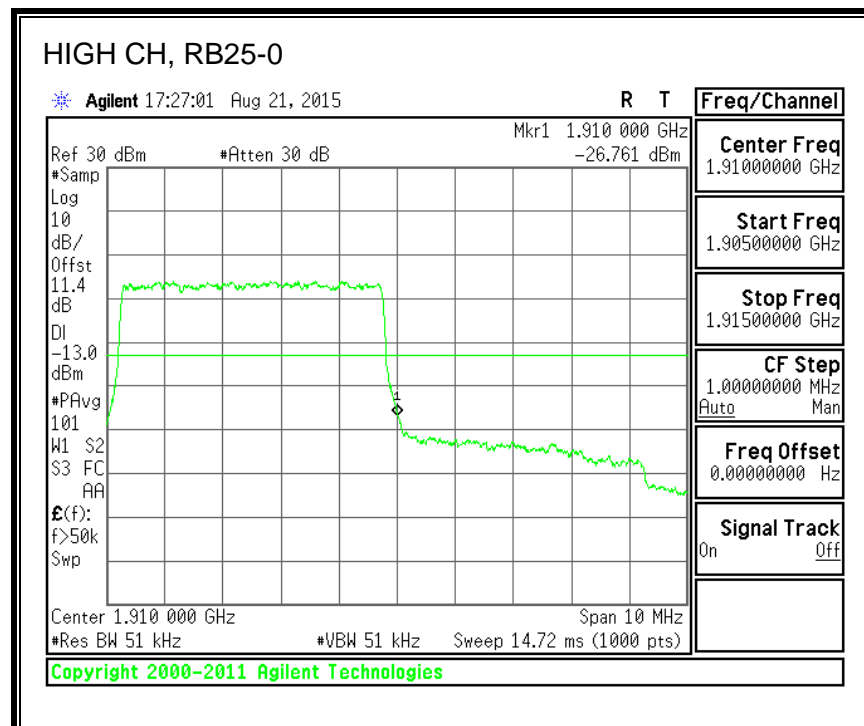
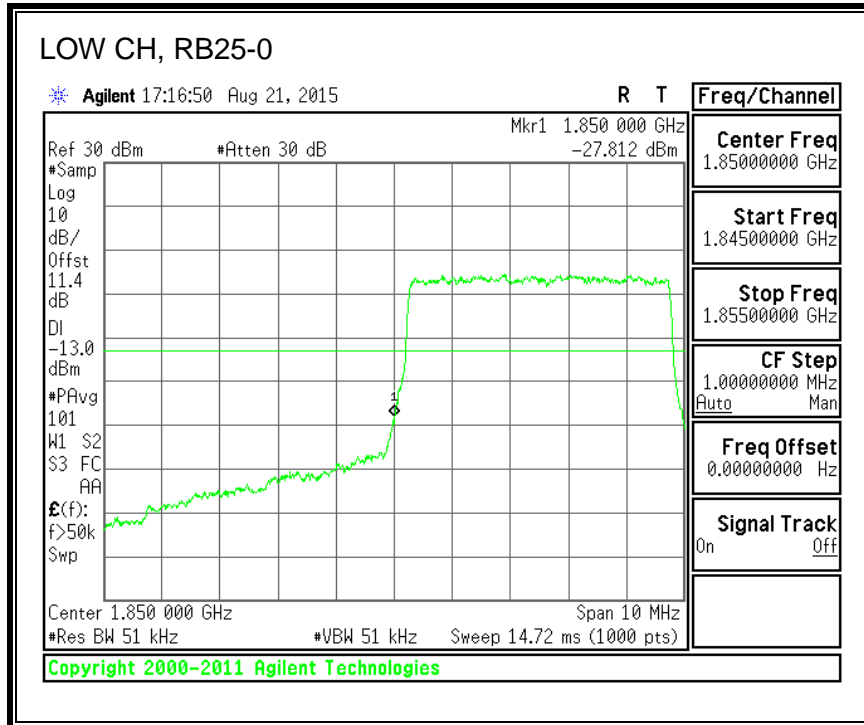


QPSK, (5.0 MHz BAND WIDTH)

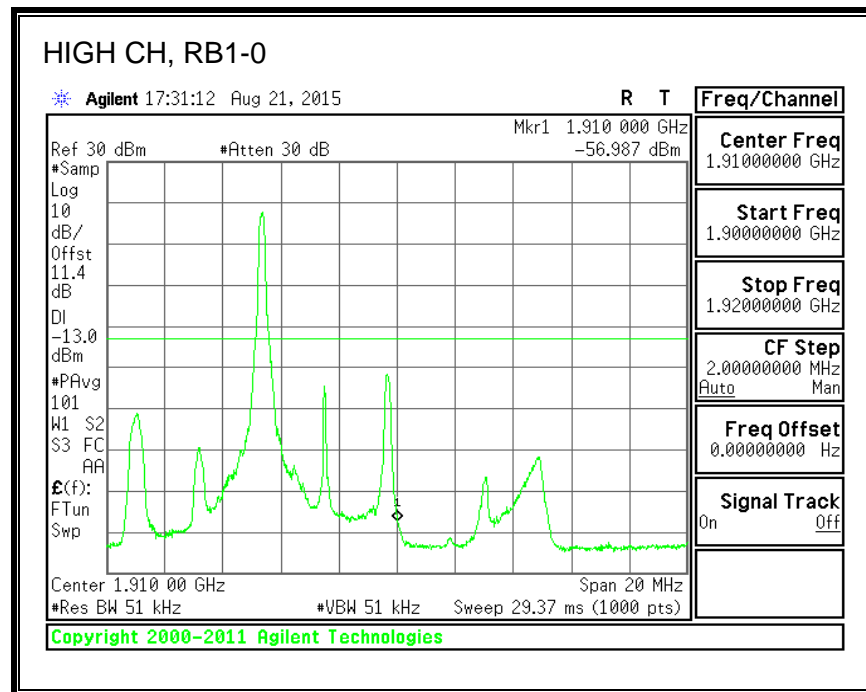
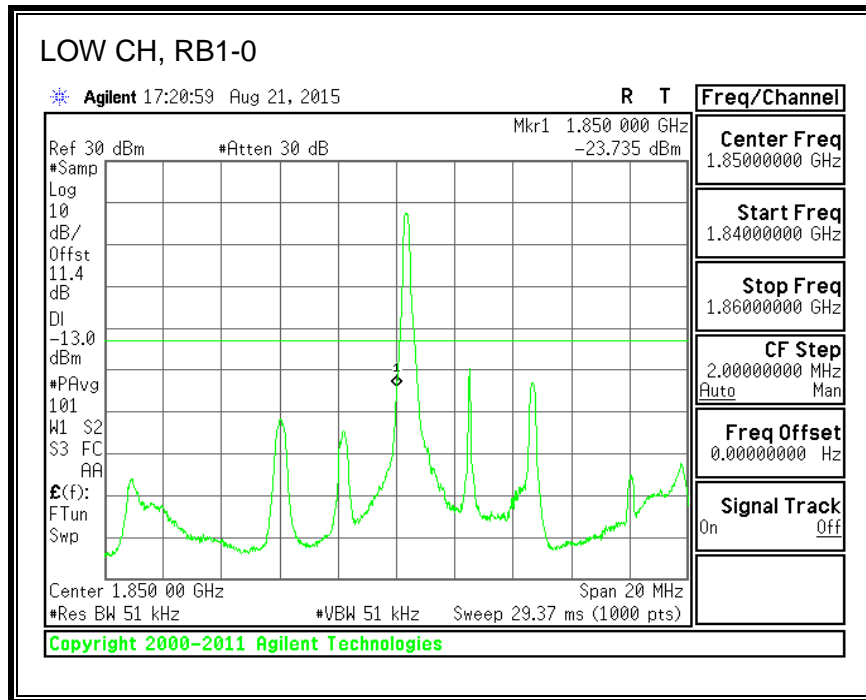


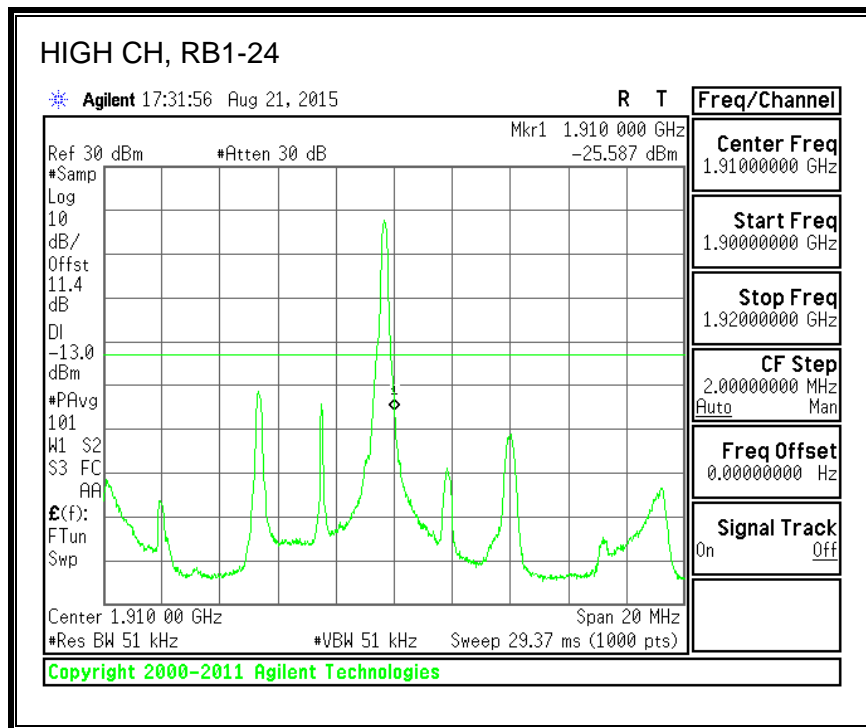
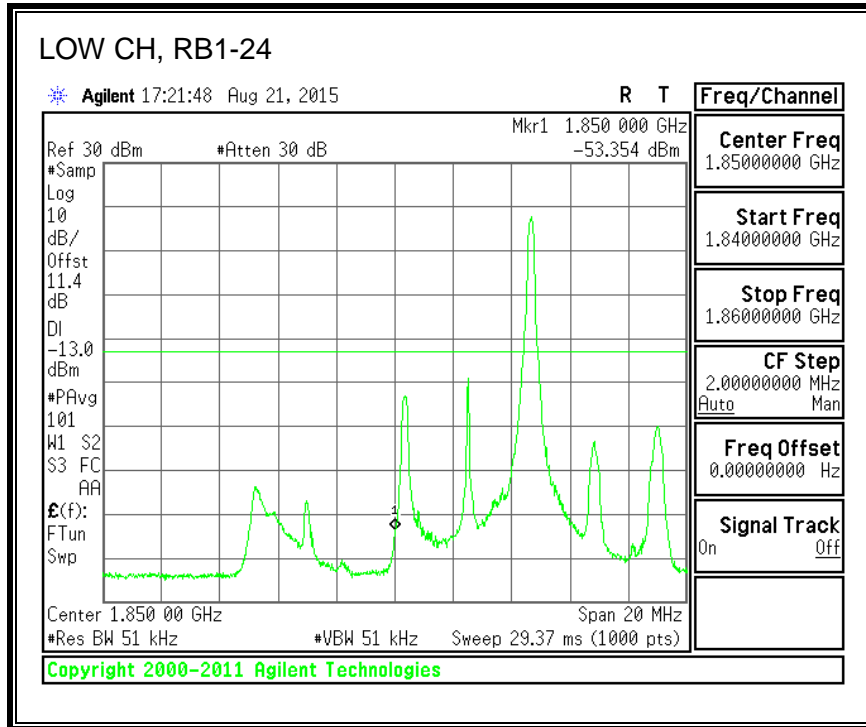


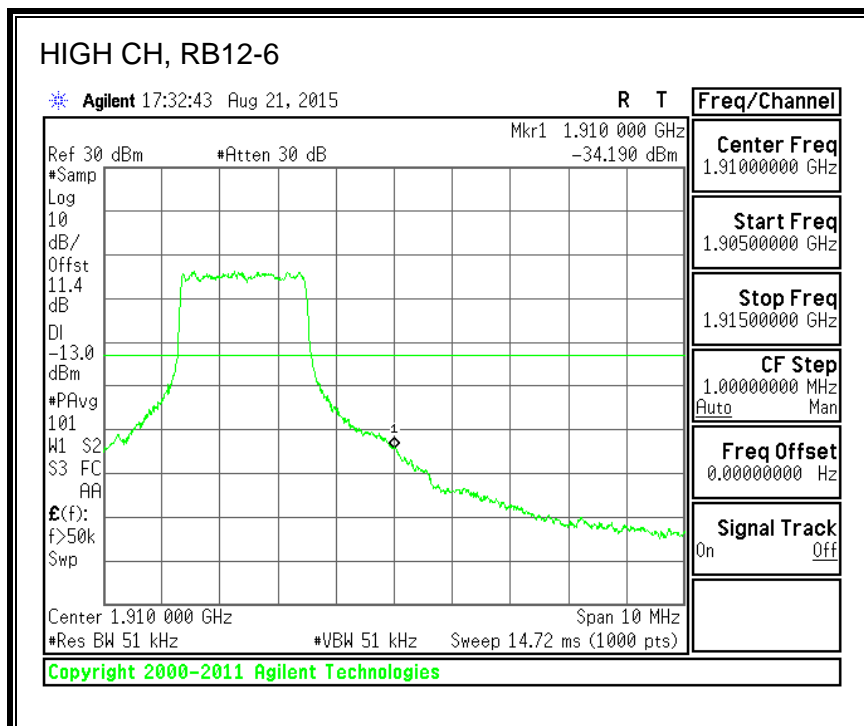
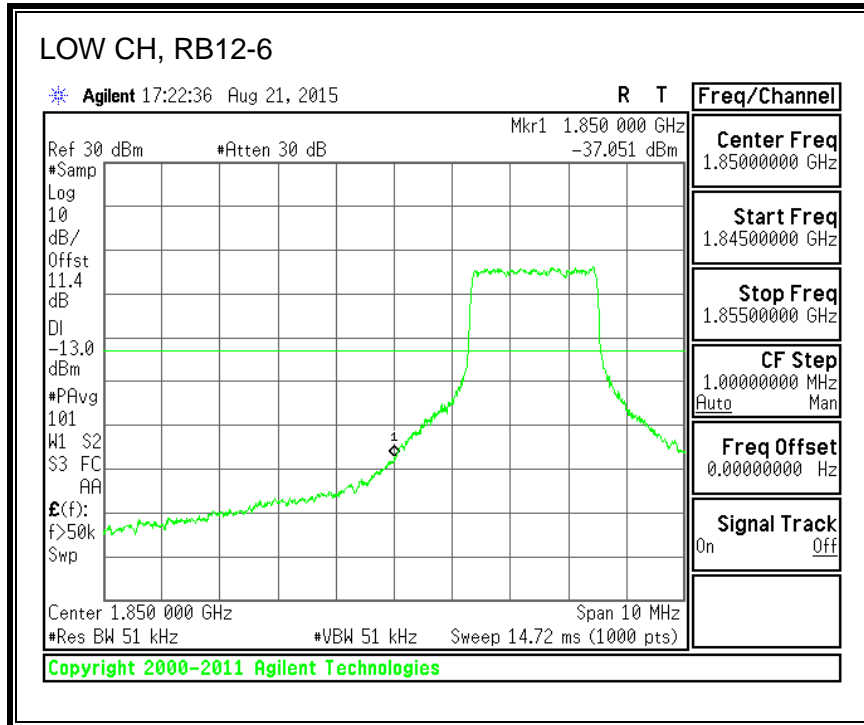


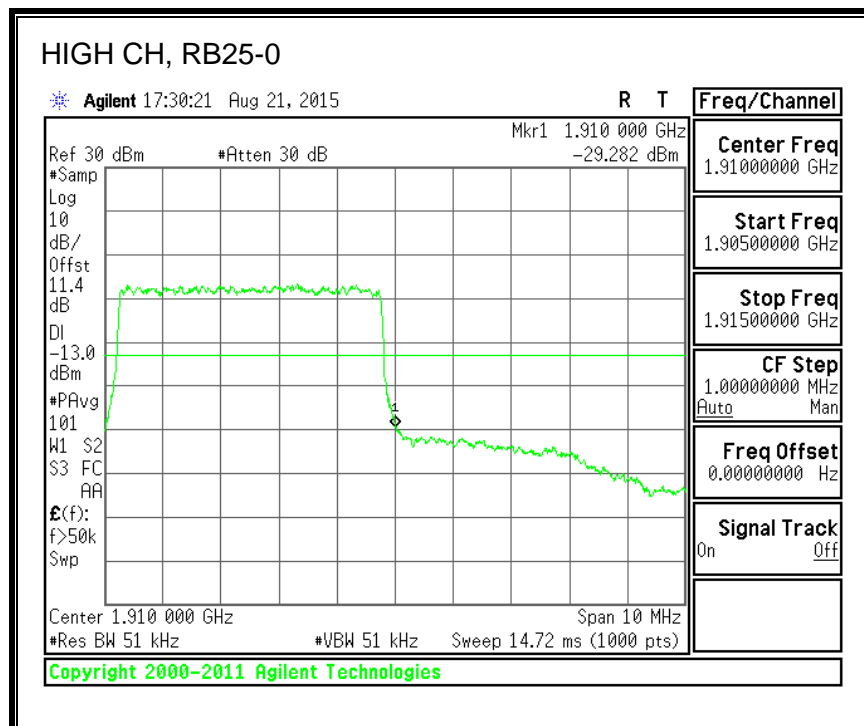
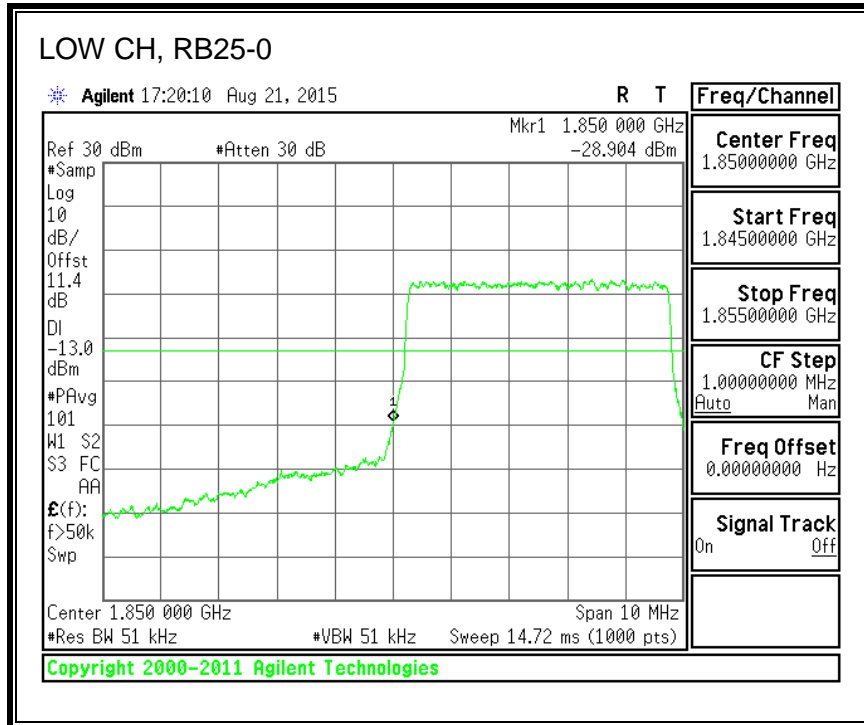


16QAM, (5.0 MHz BAND WIDTH)

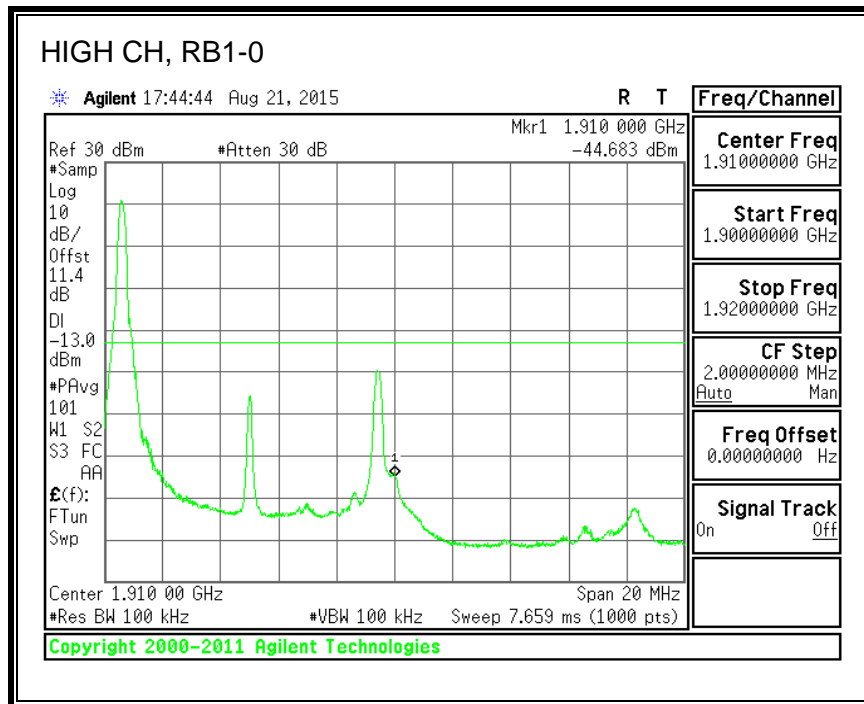
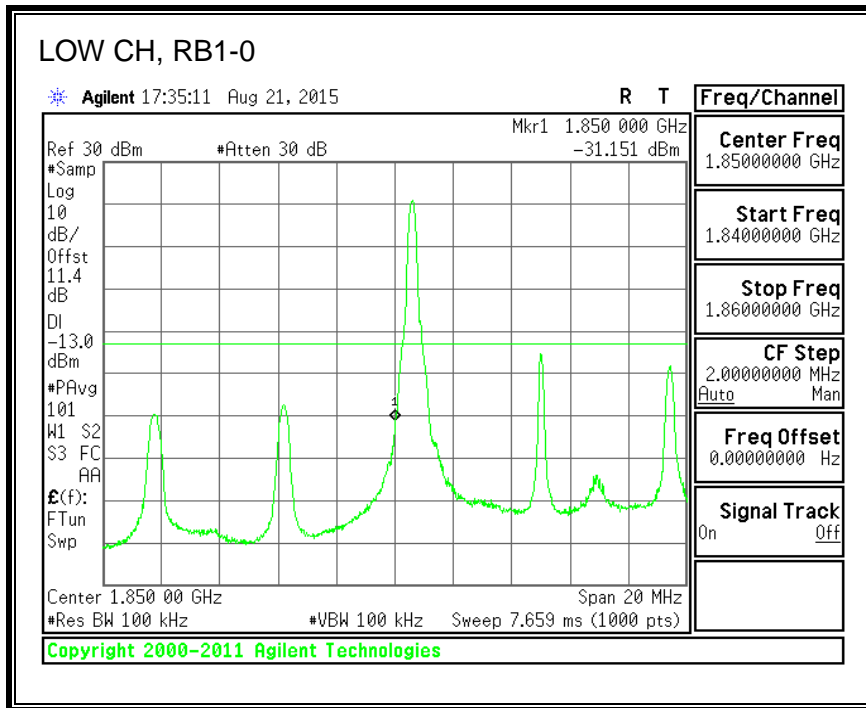


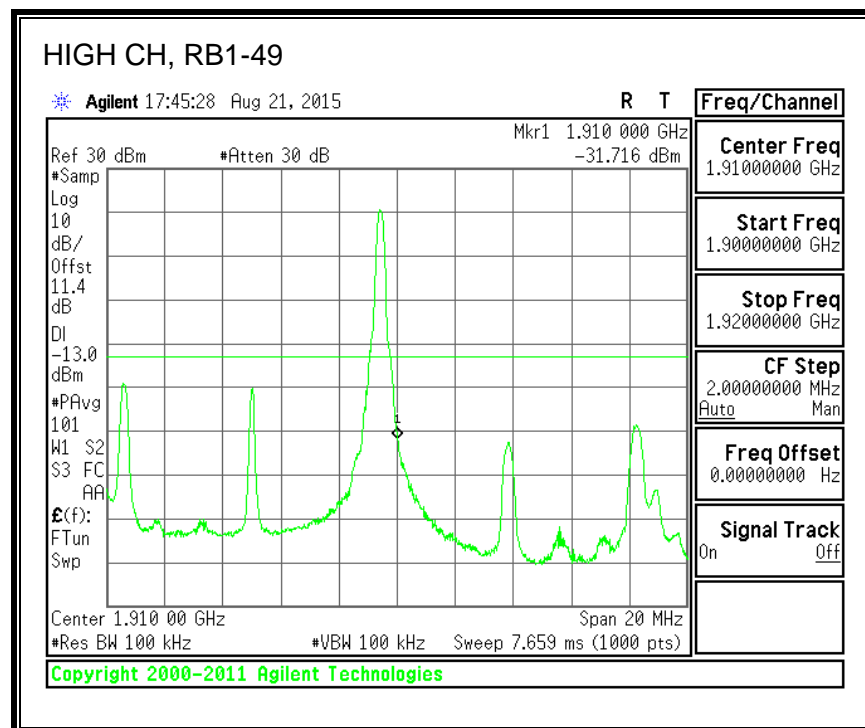
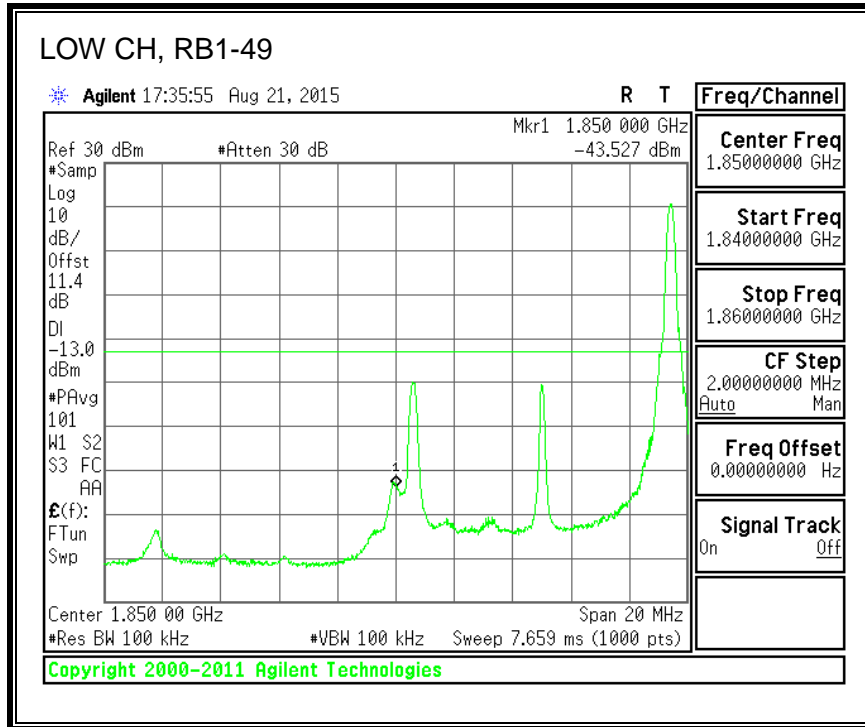


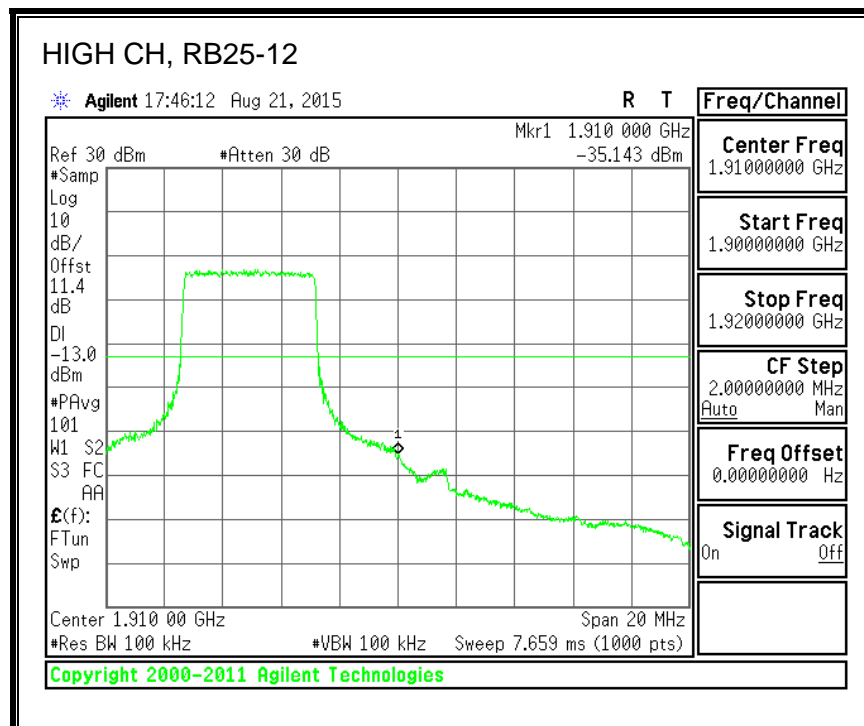
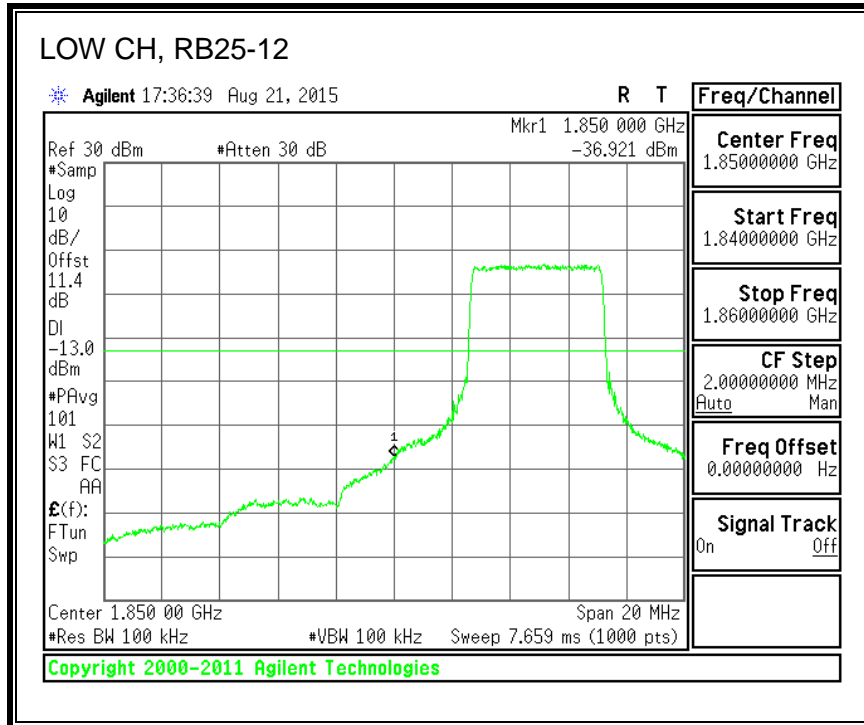


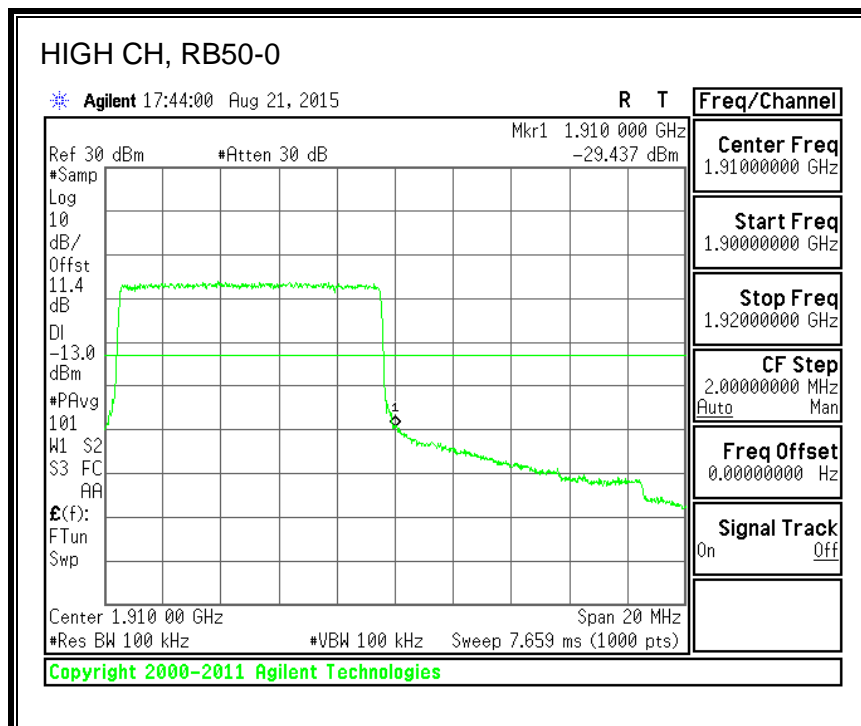
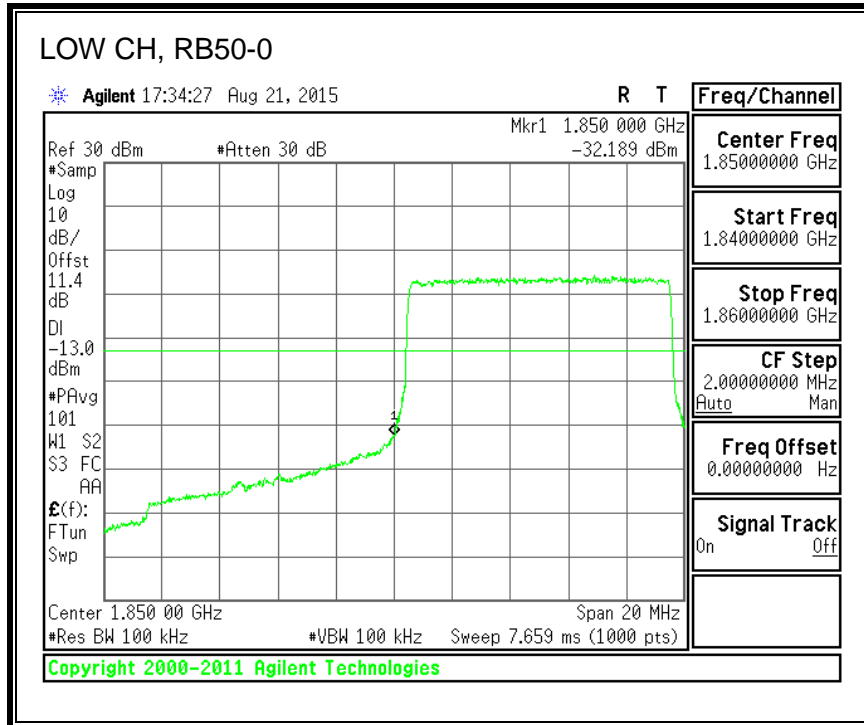


QPSK, (10.0 MHz BAND WIDTH)

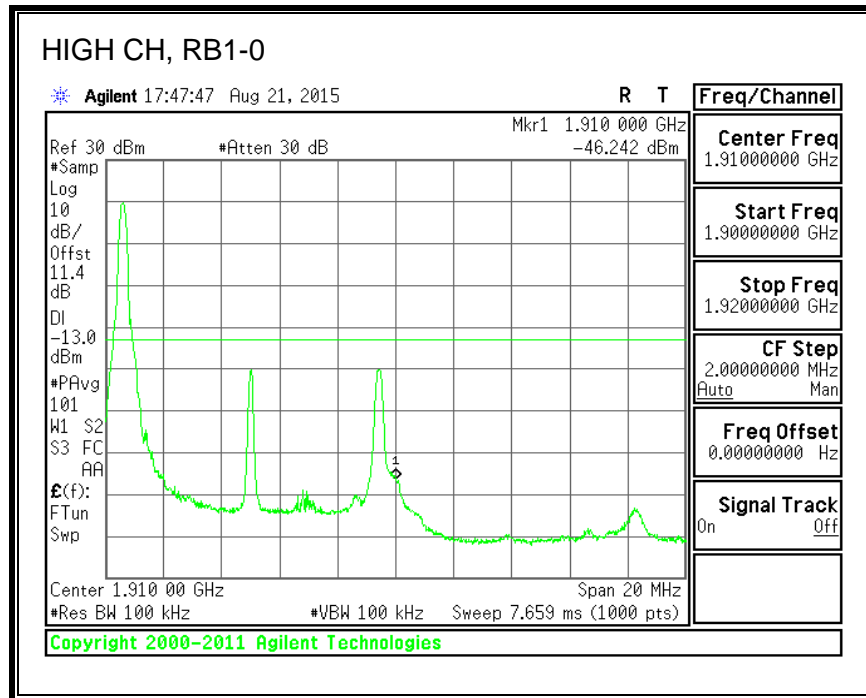
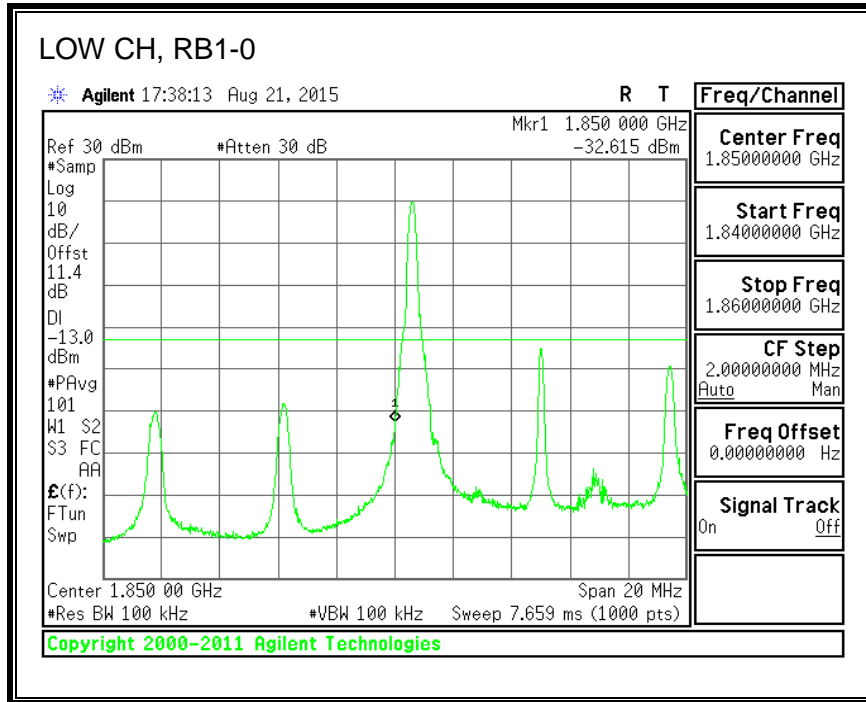


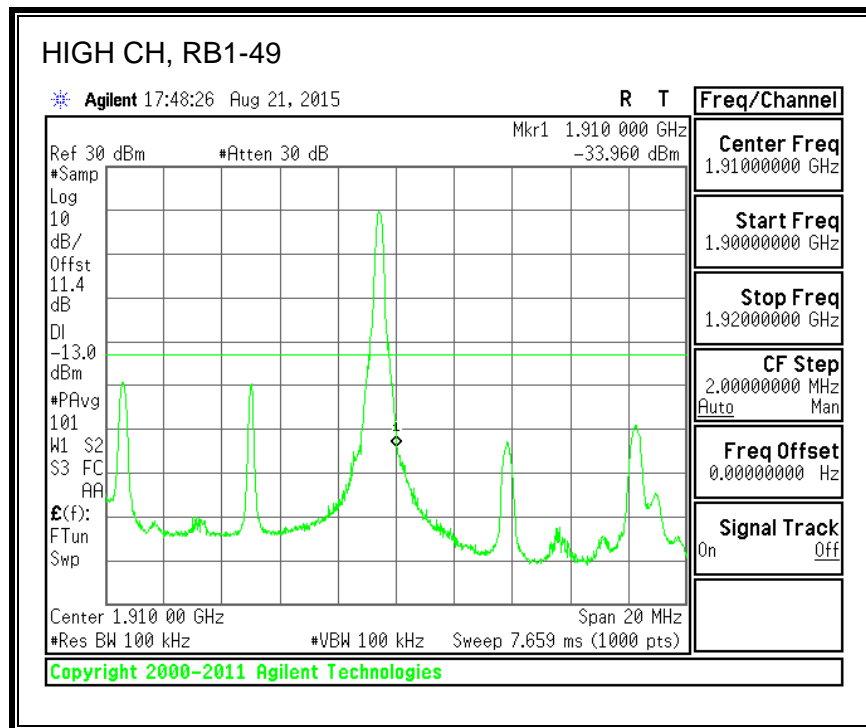
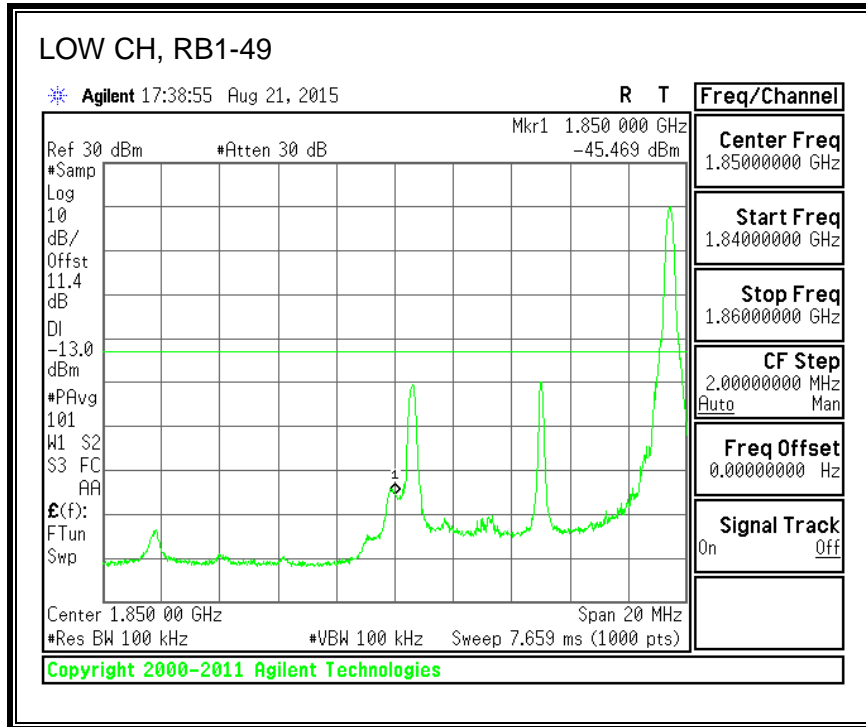


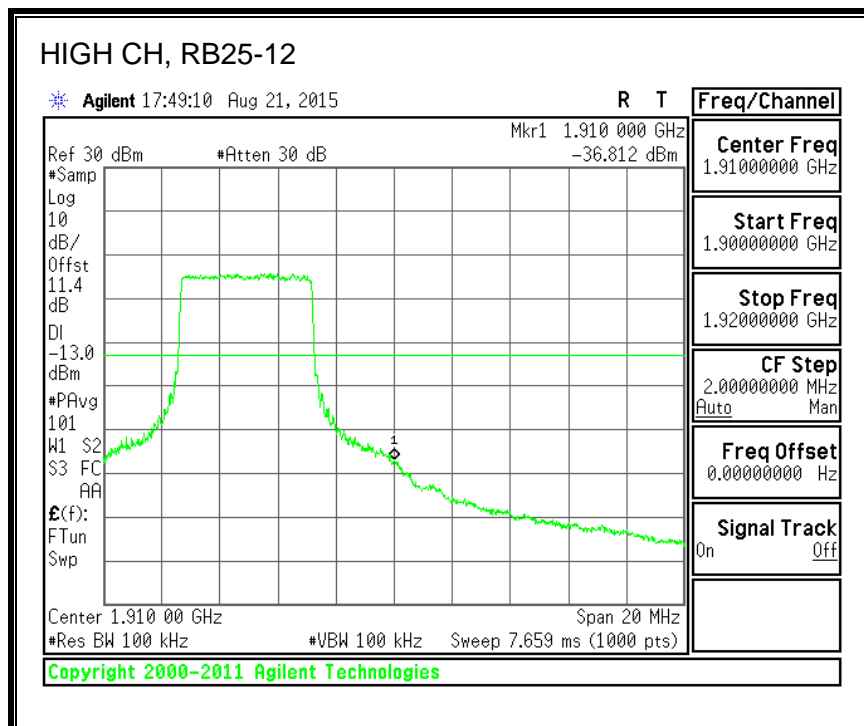
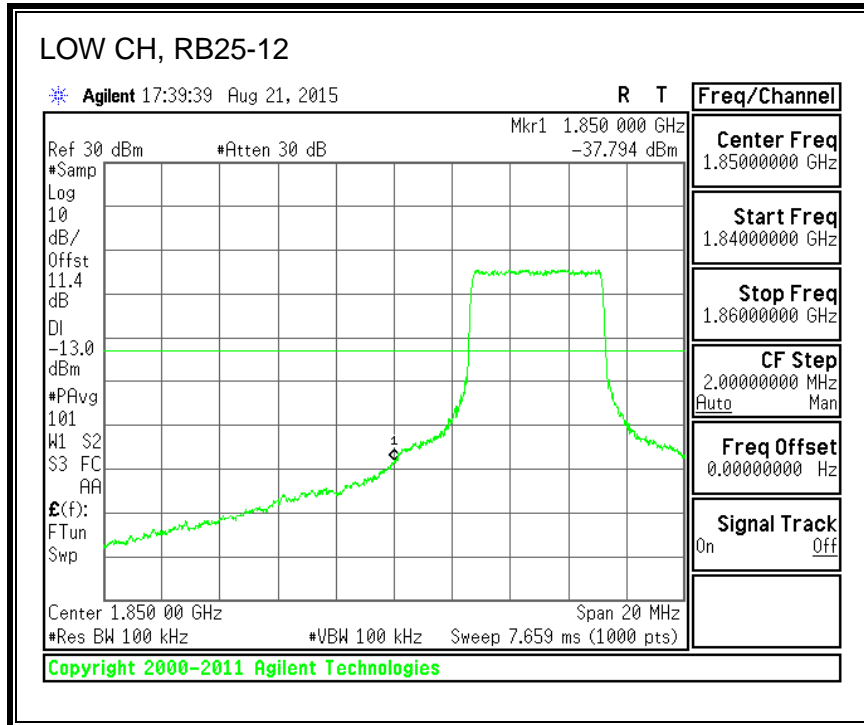


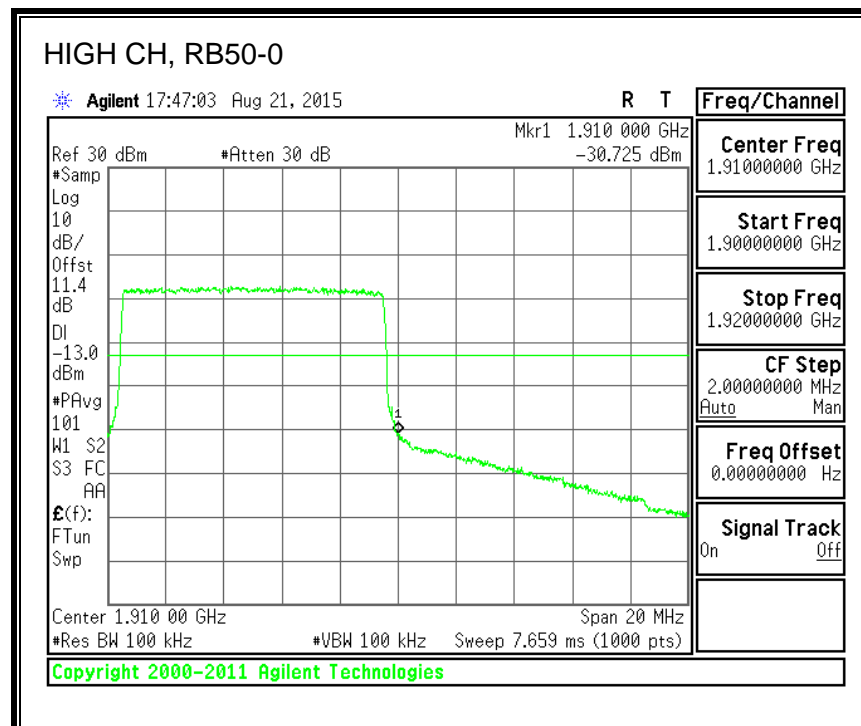
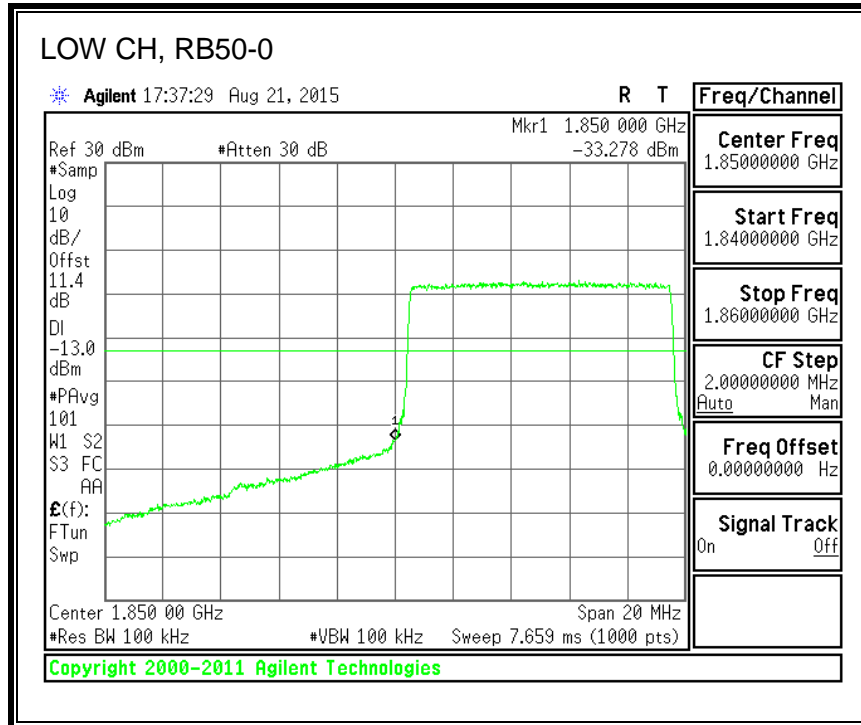


16QAM, (10.0 MHz BAND WIDTH)

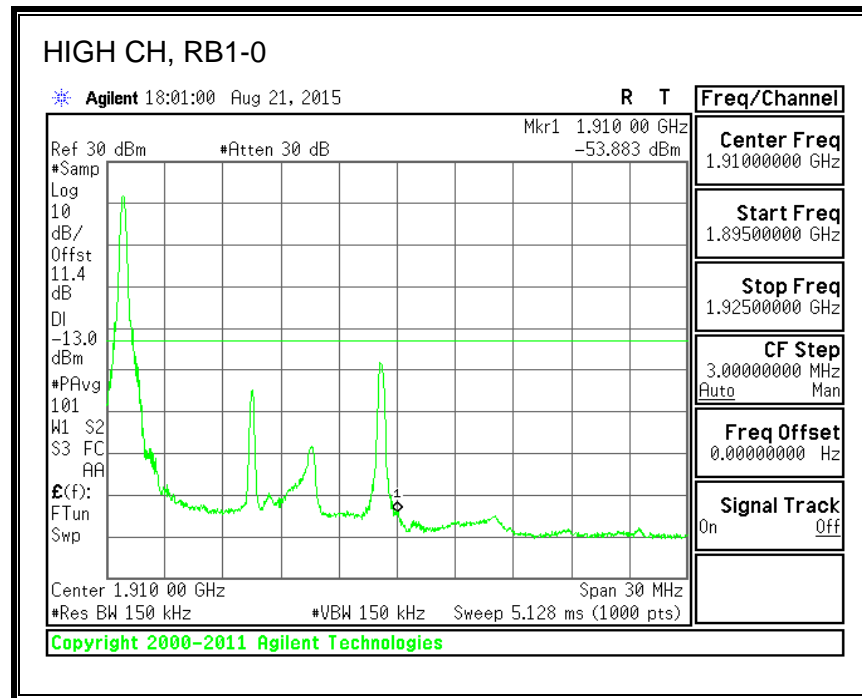
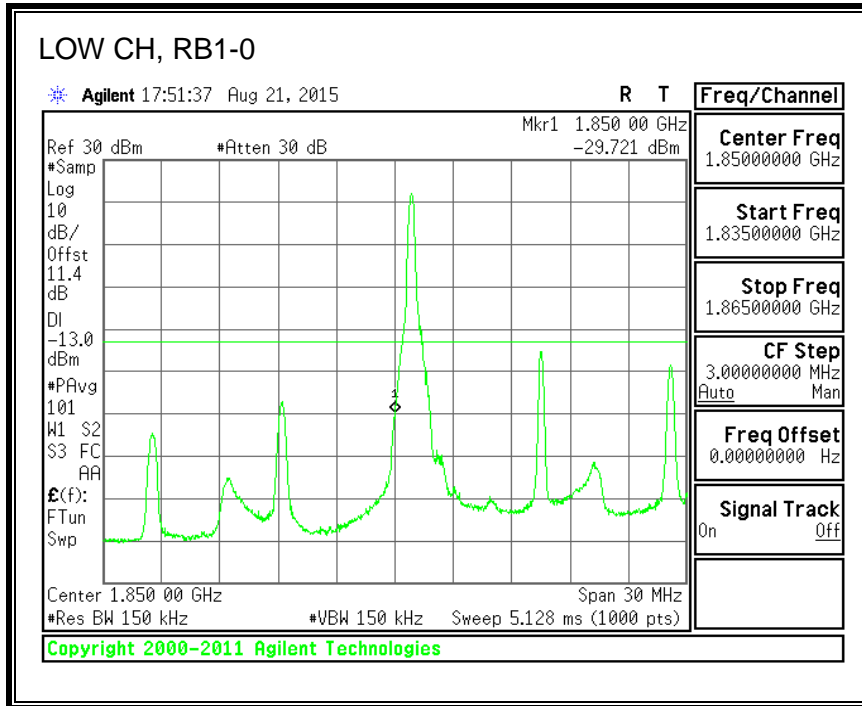


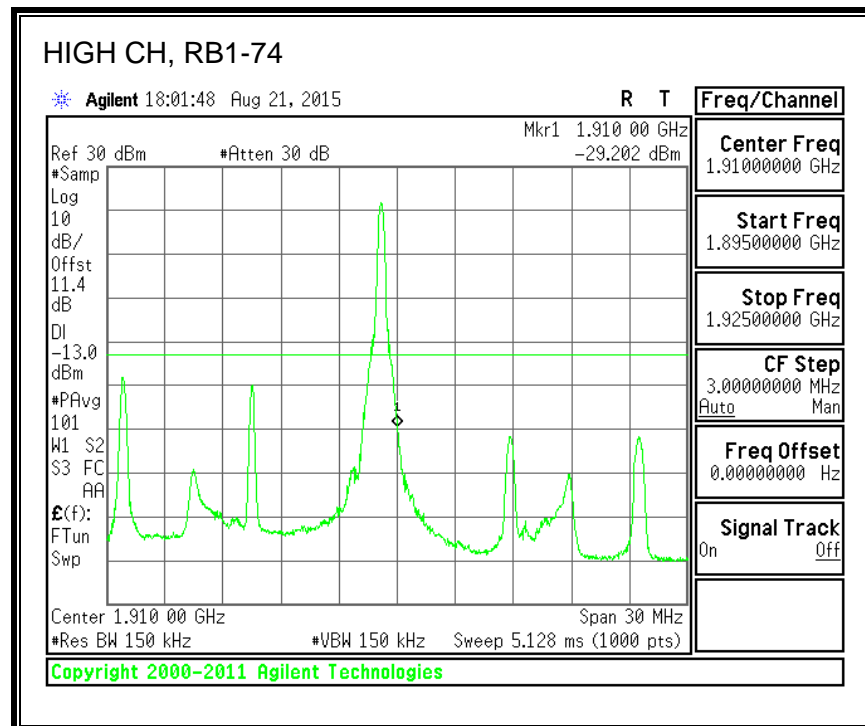
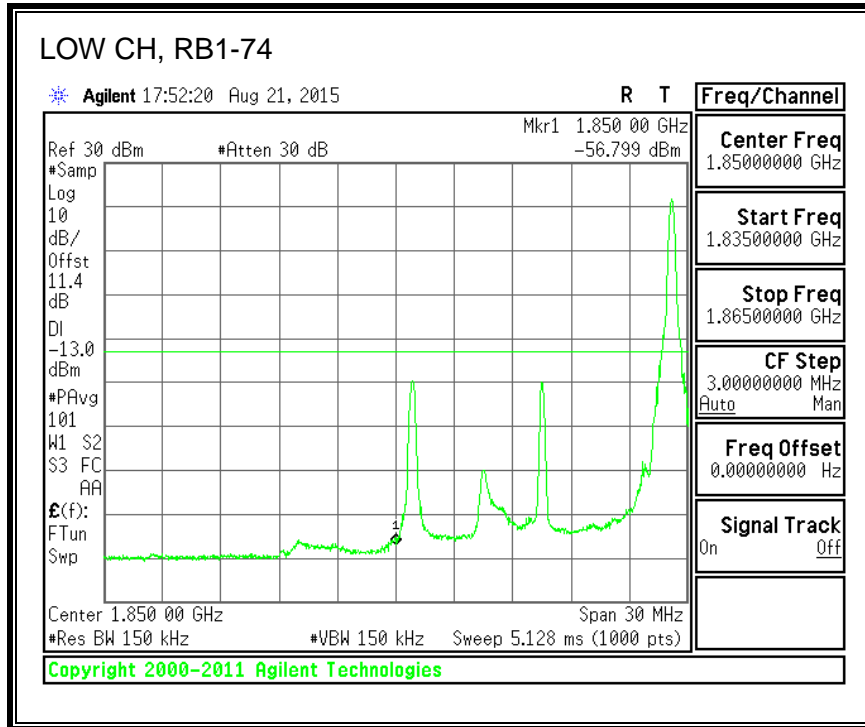


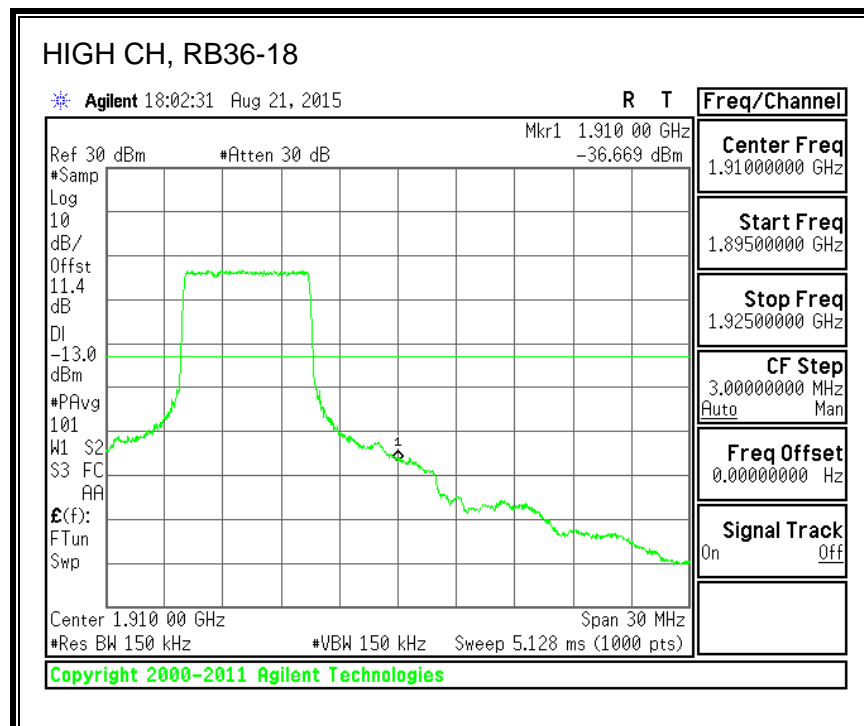
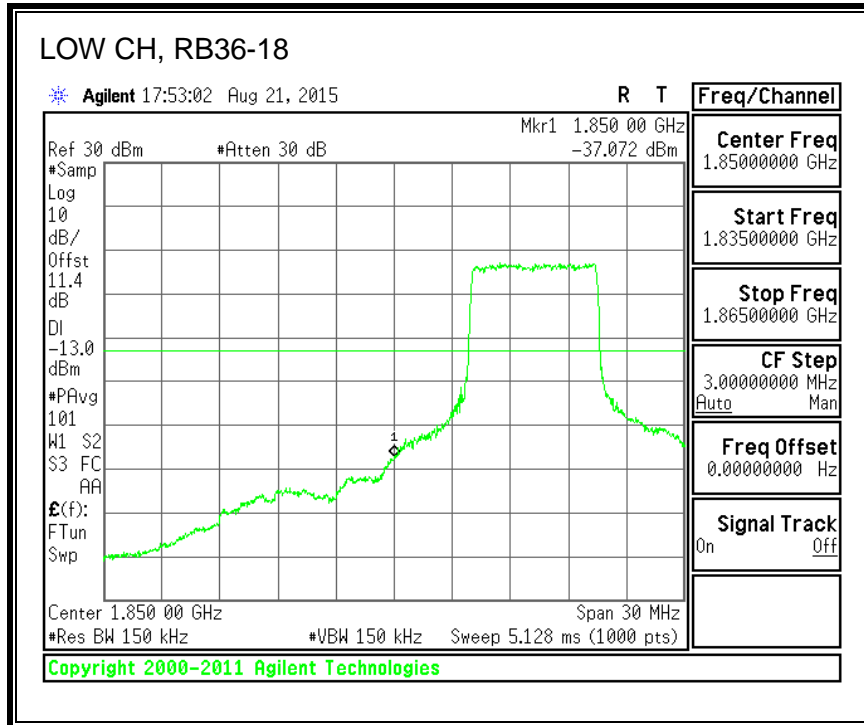


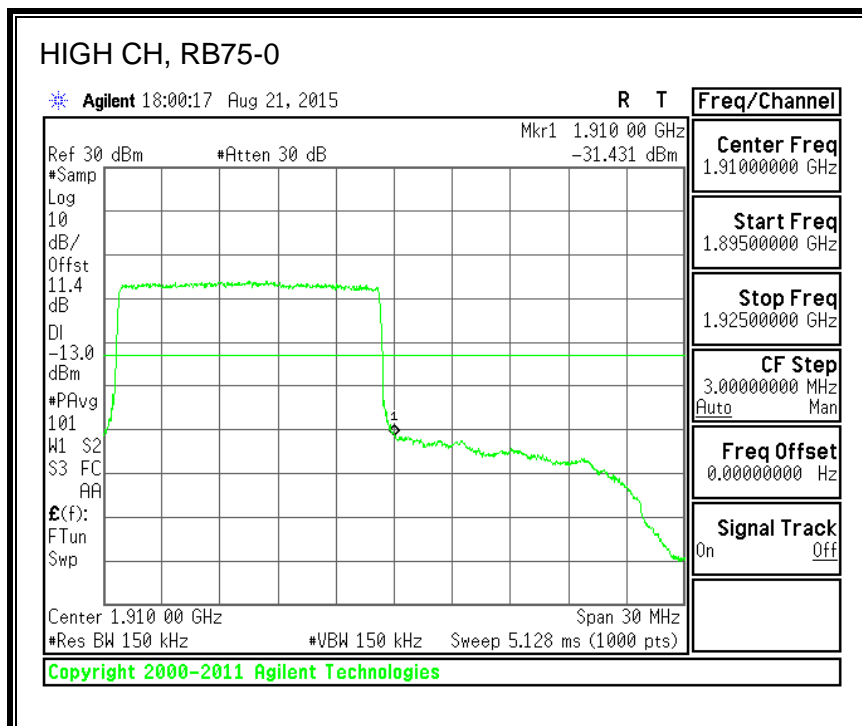
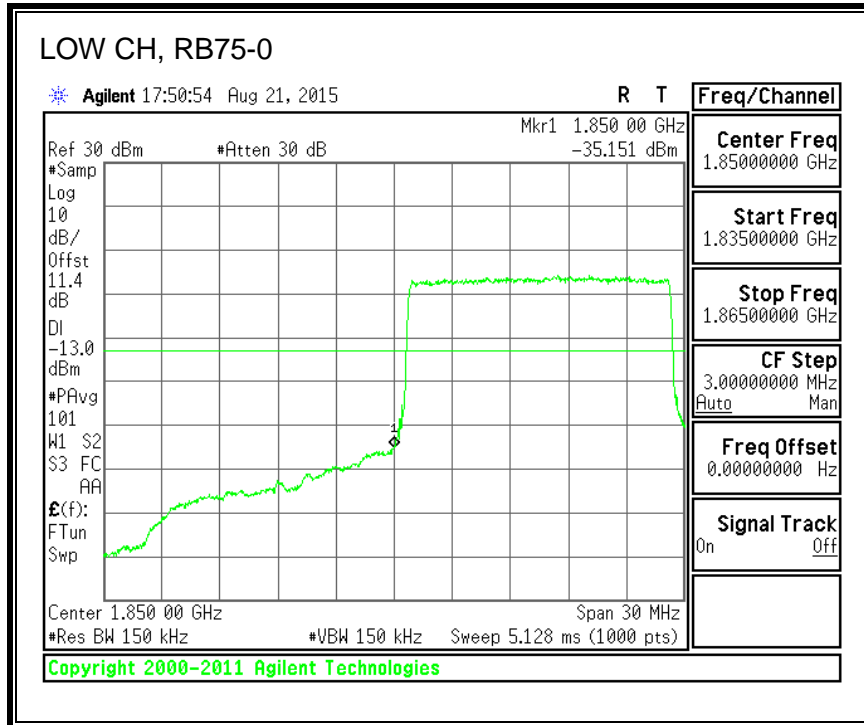


QPSK, (15.0 MHz BAND WIDTH)

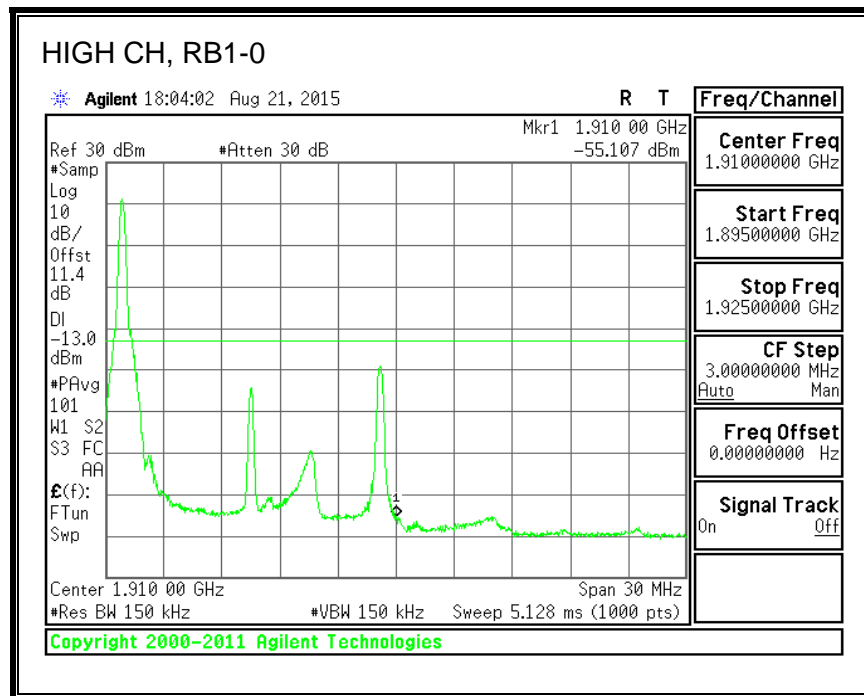
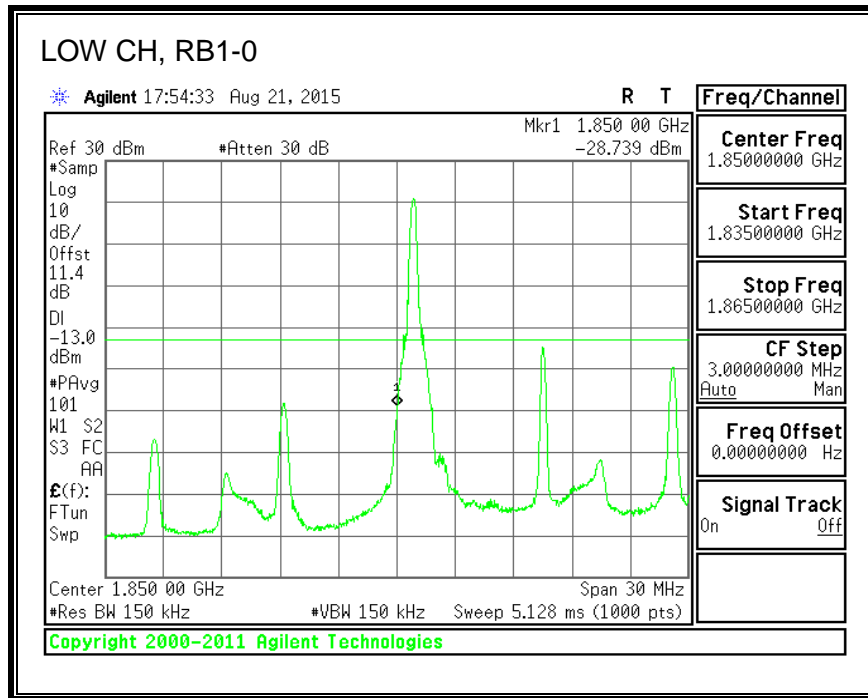


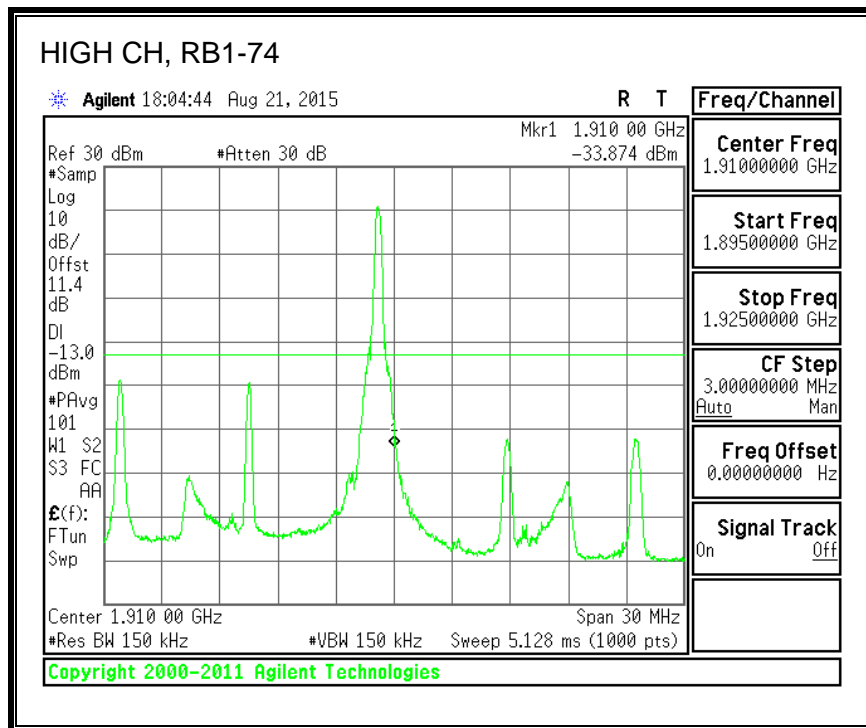
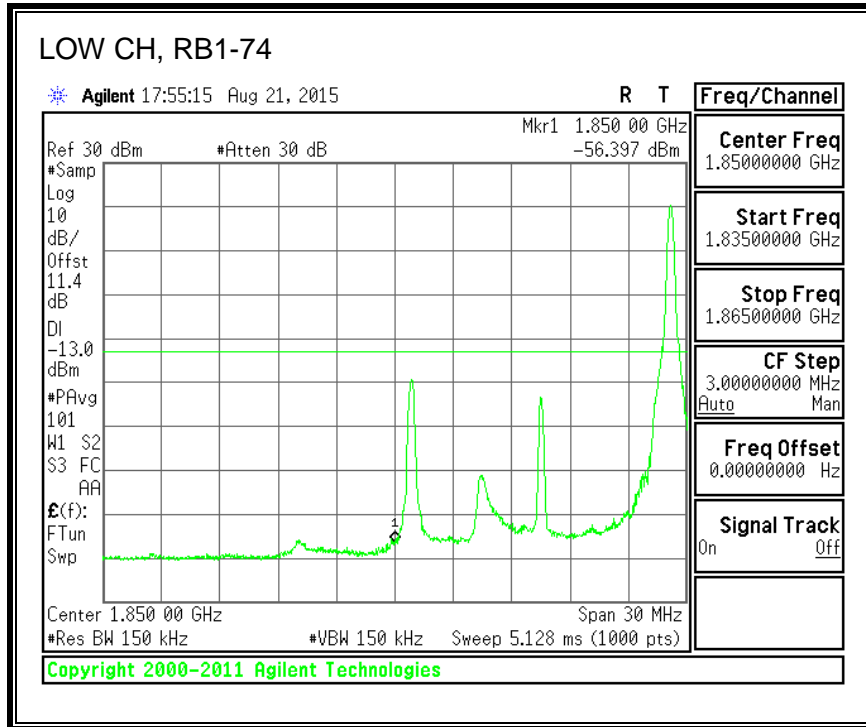


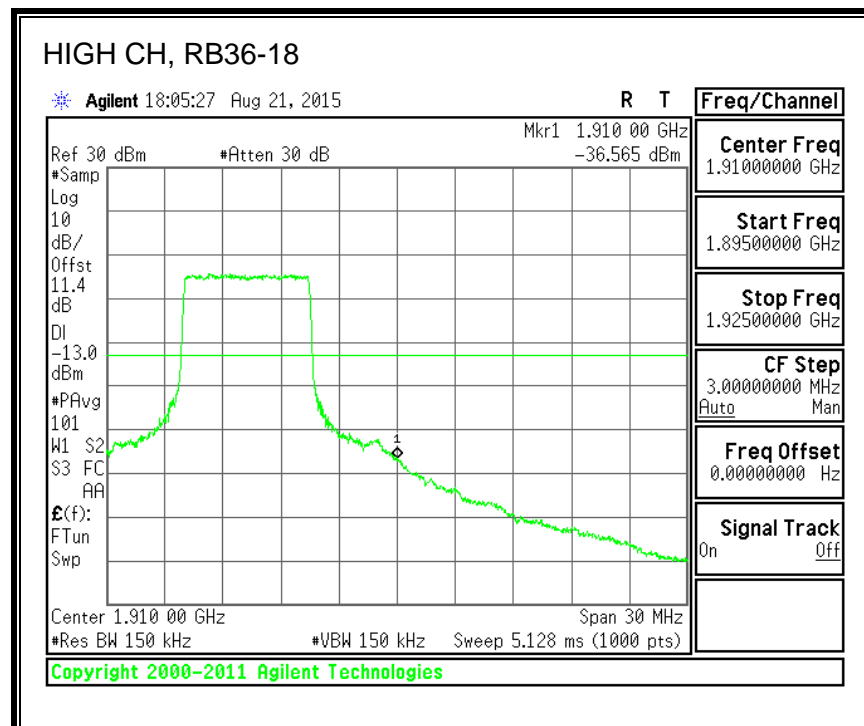
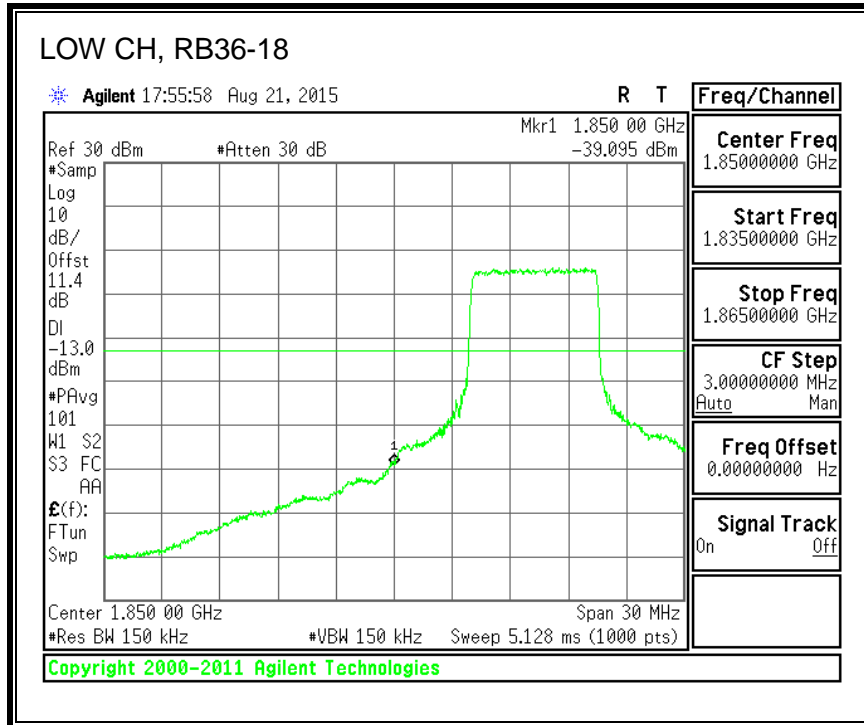


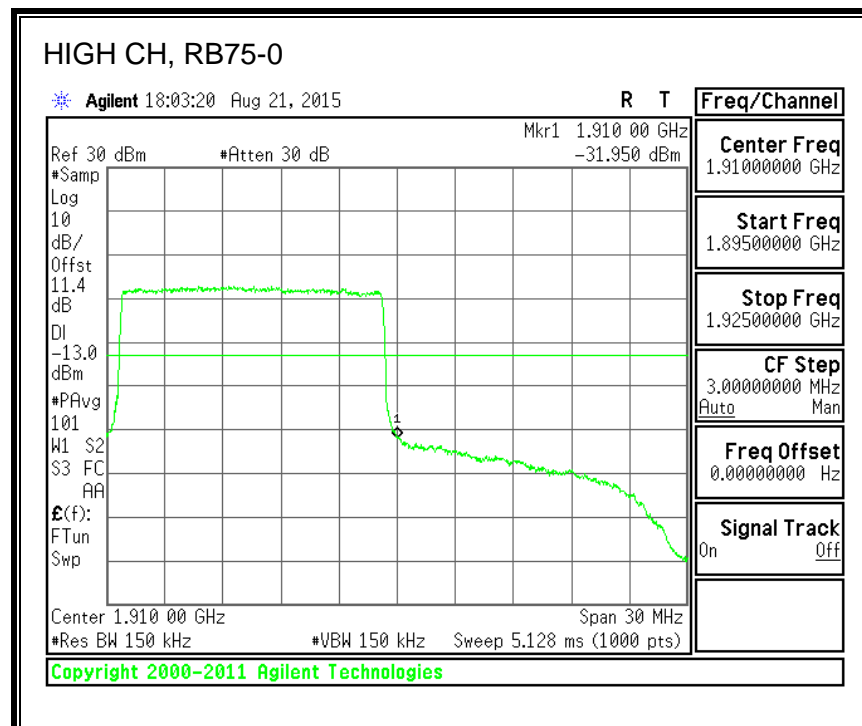
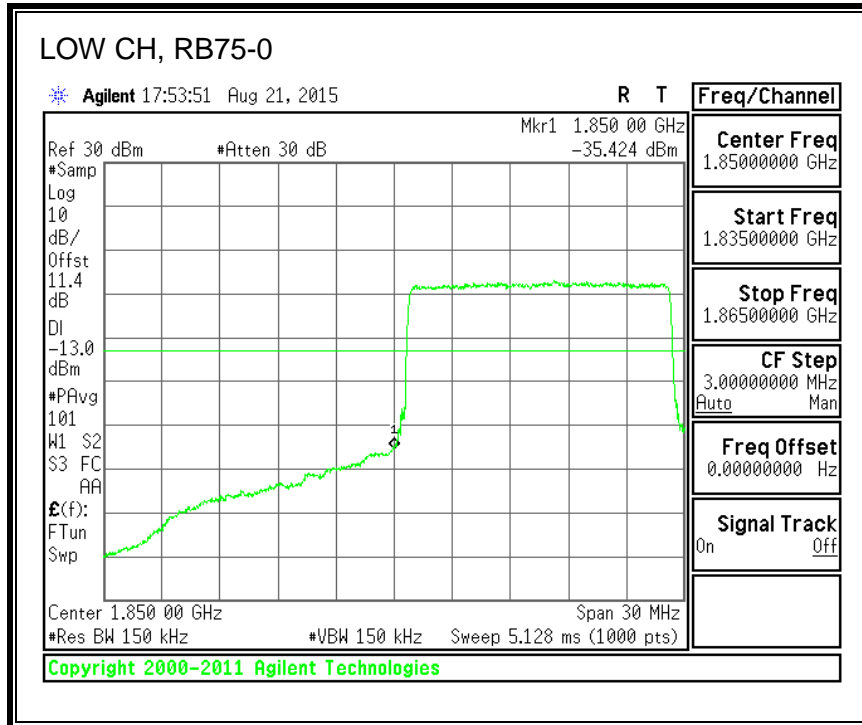


16QAM, (15.0 MHz BAND WIDTH)

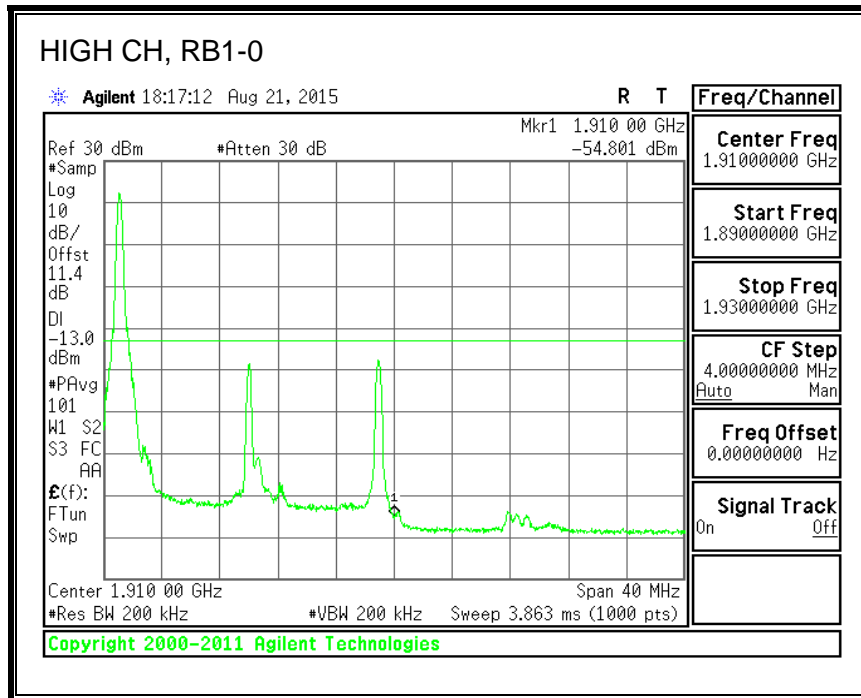
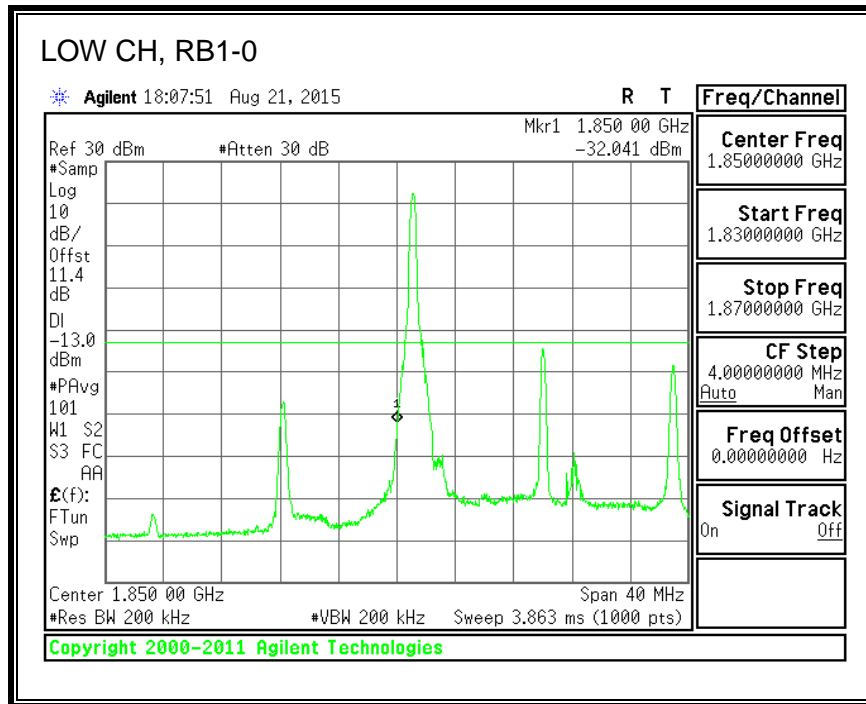


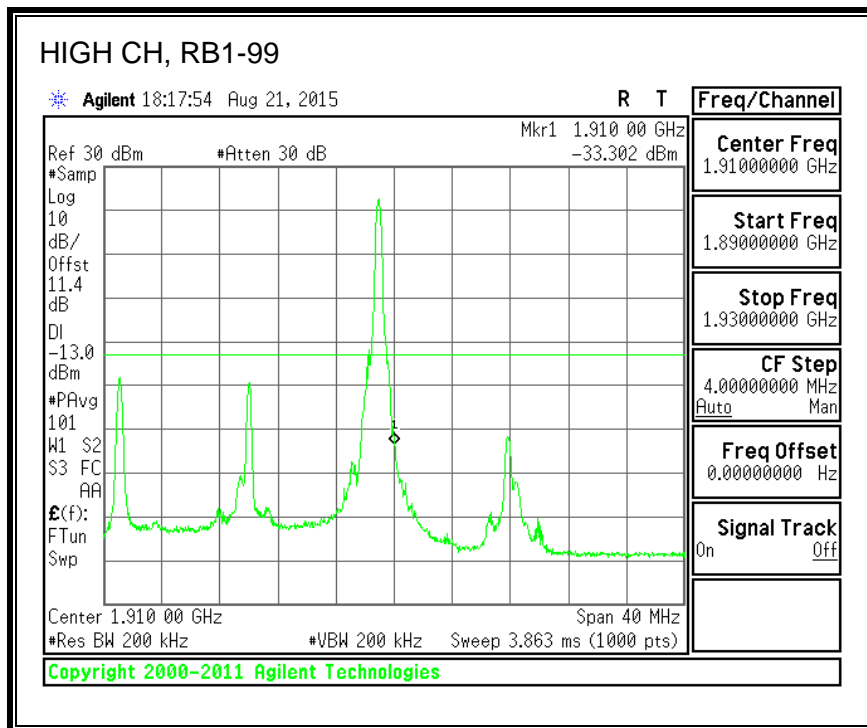
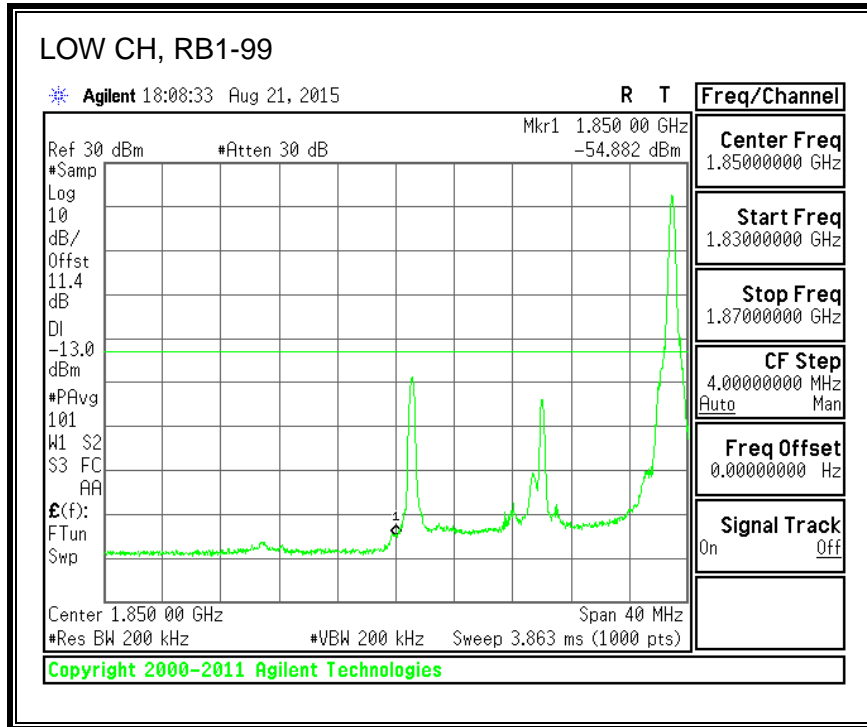


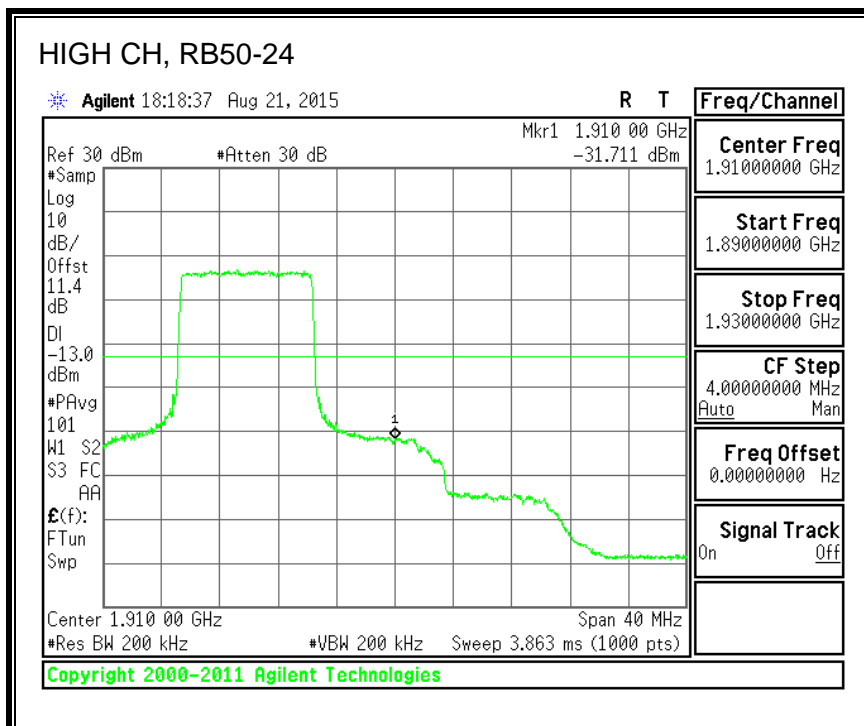
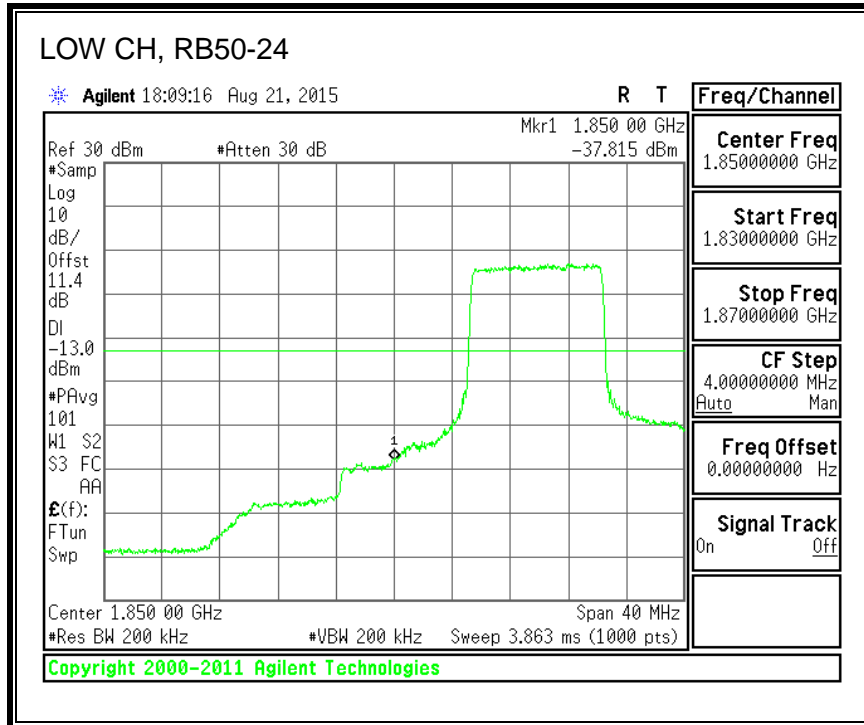




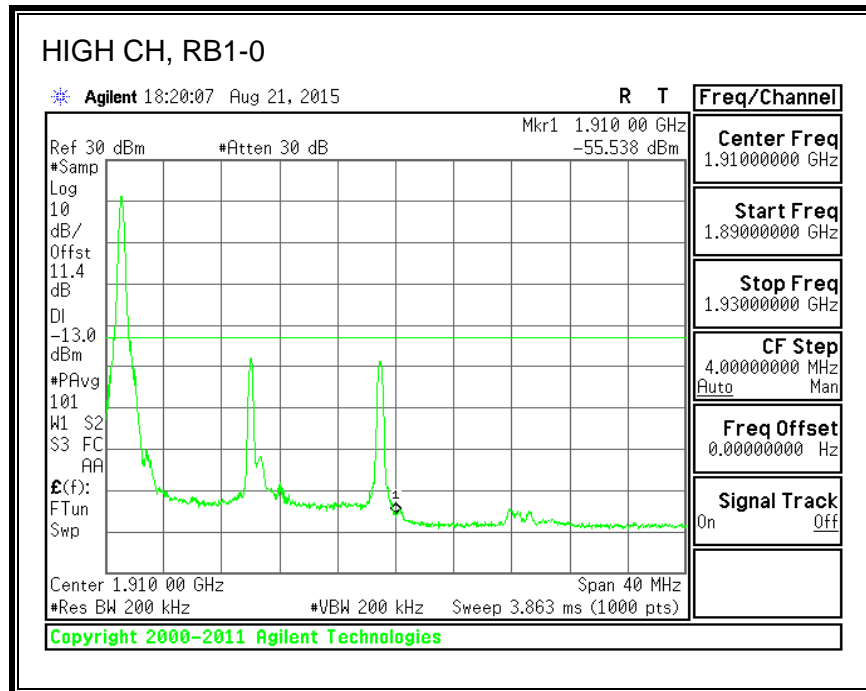
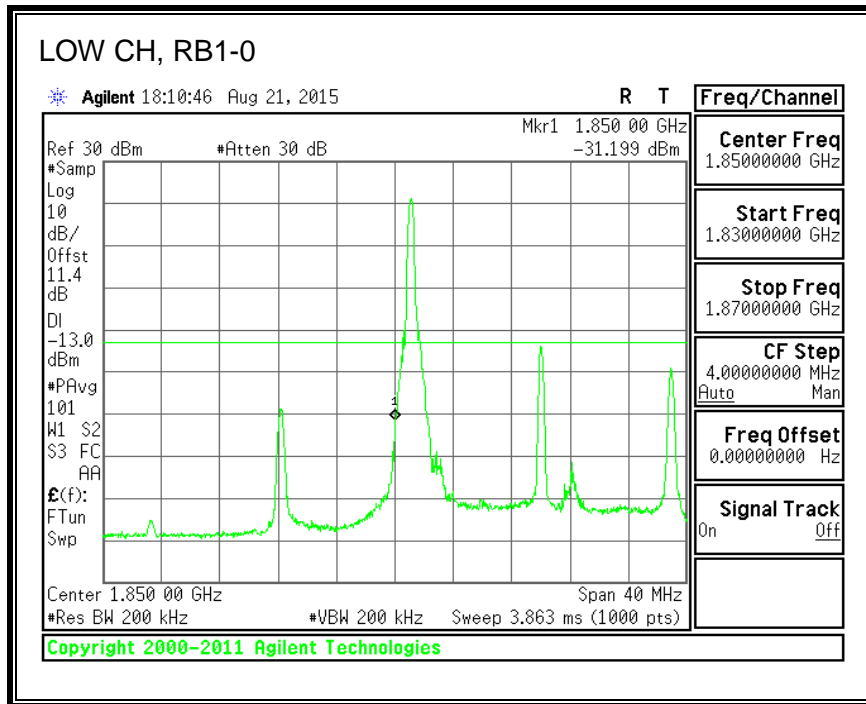
QPSK, (20.0 MHz BAND WIDTH)

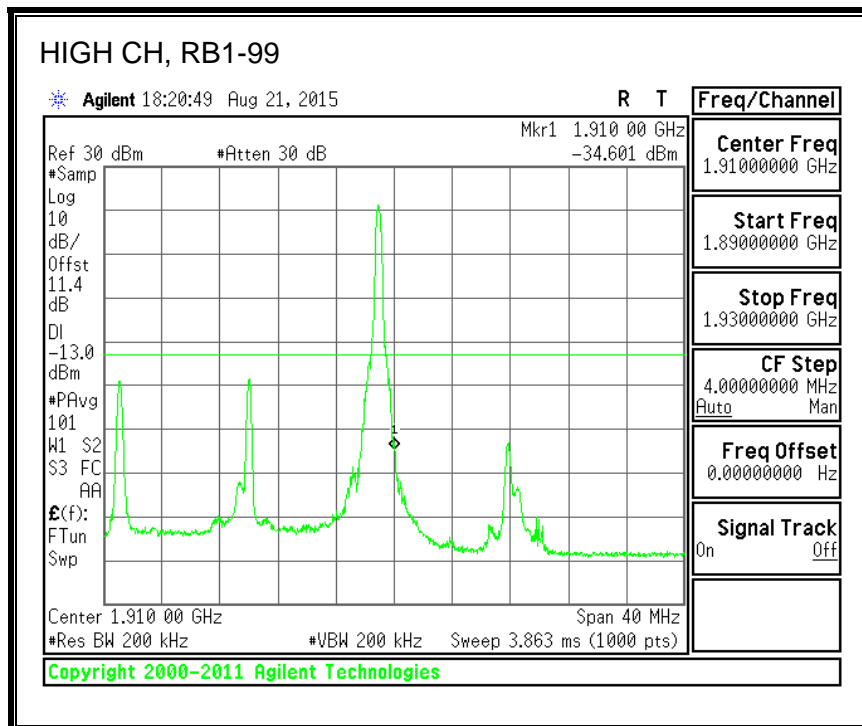
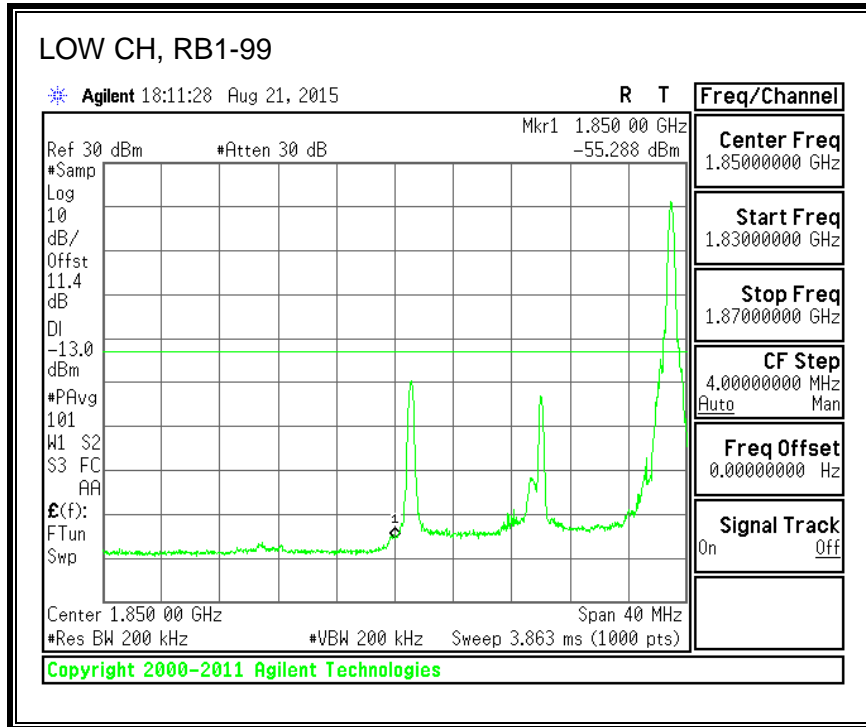


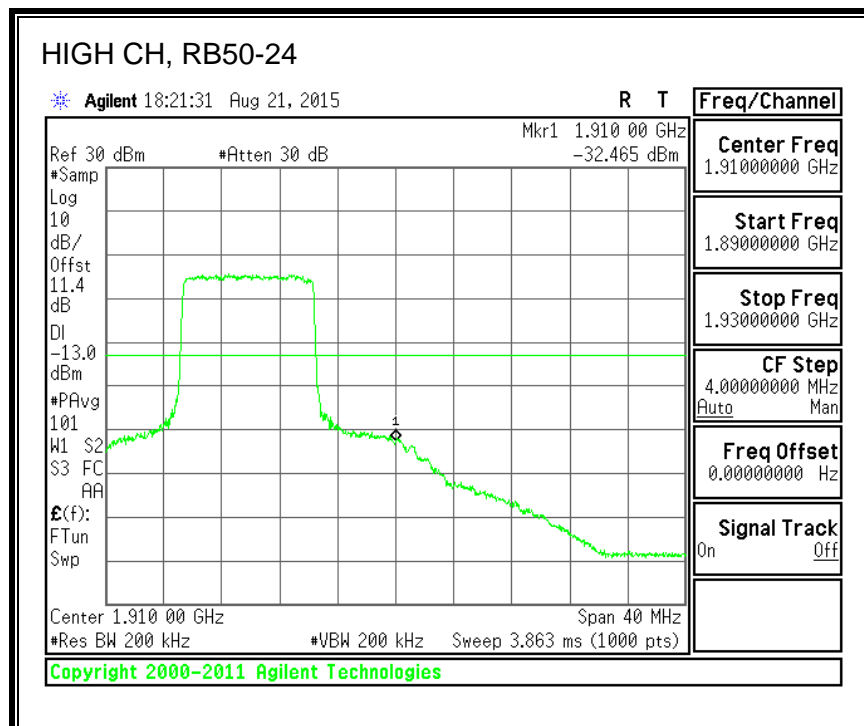
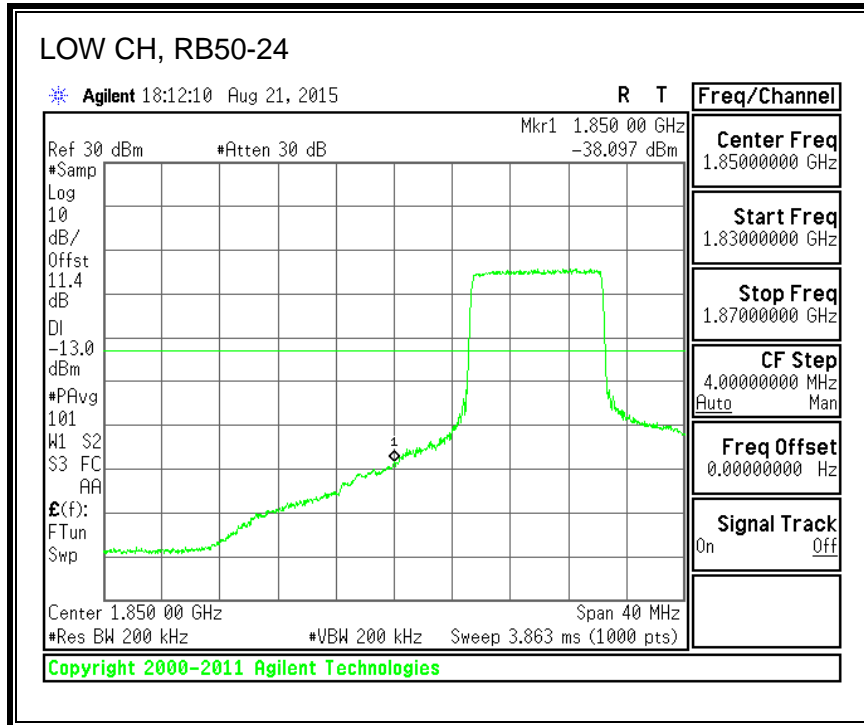


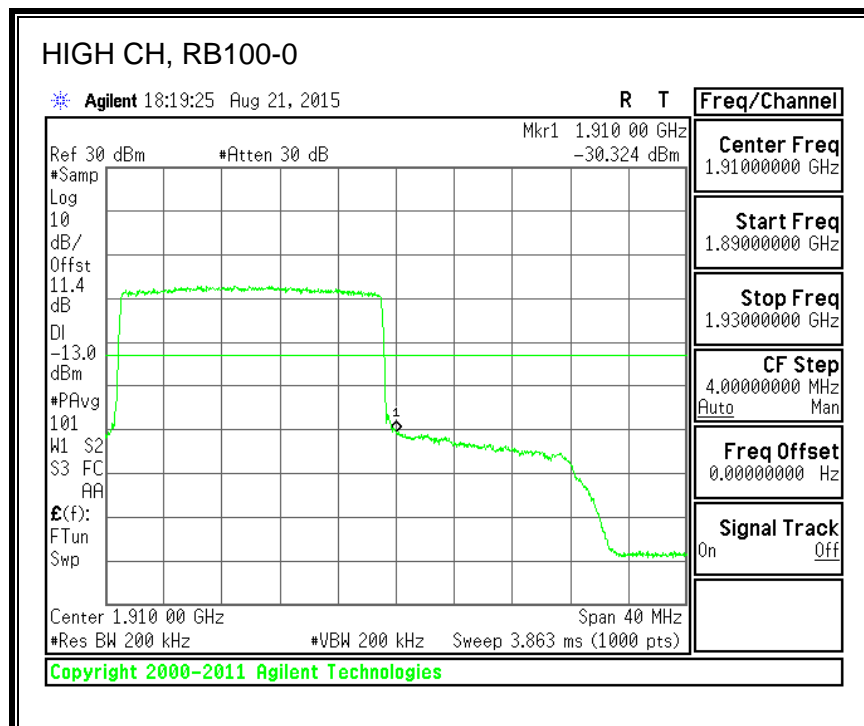
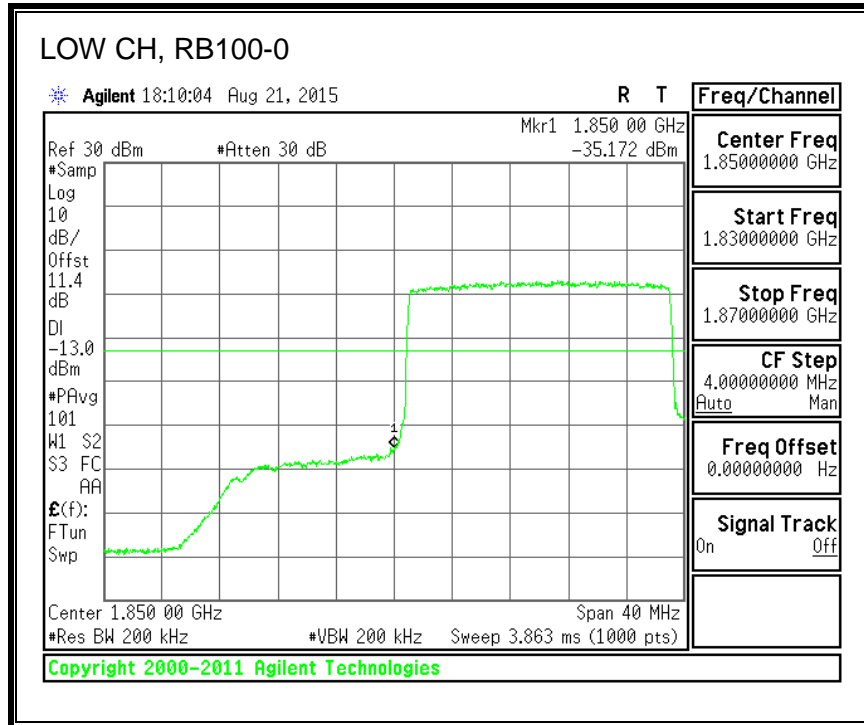


16QAM, (20.0 MHz BAND WIDTH)



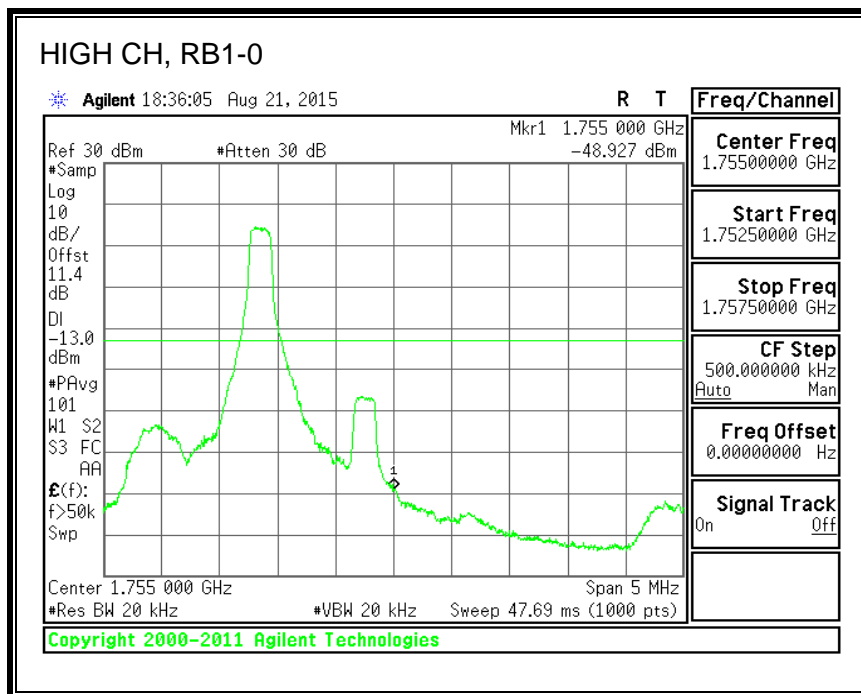
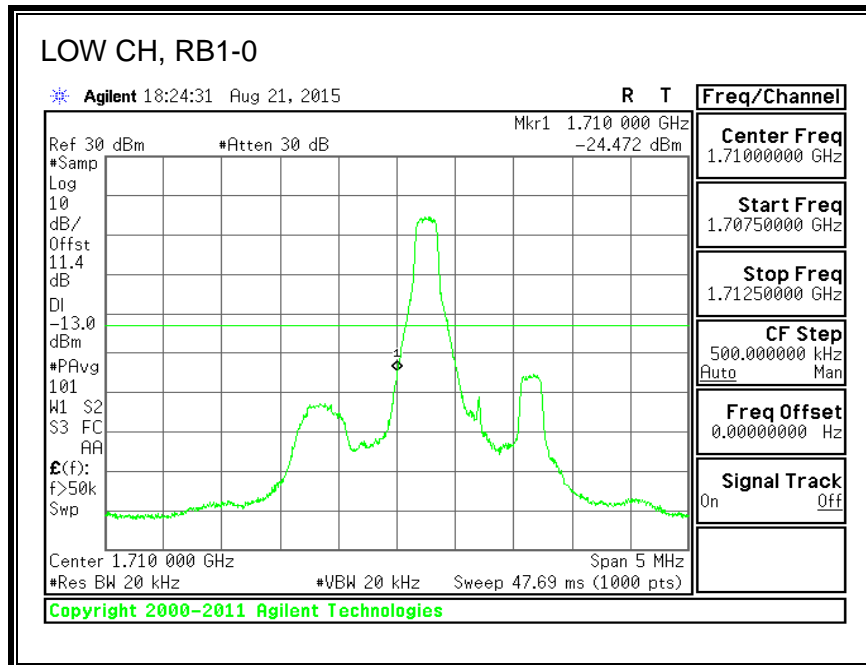


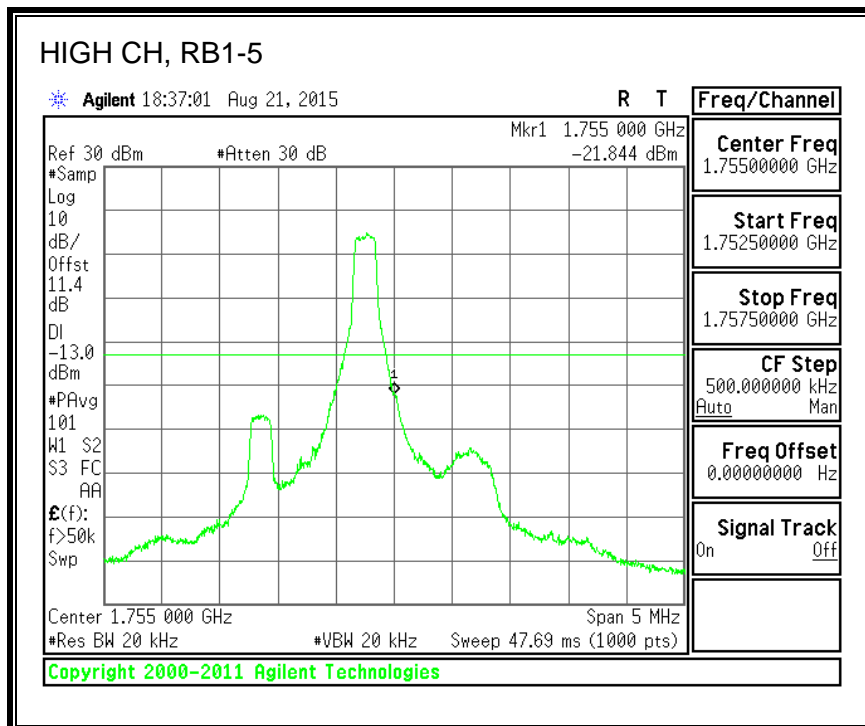
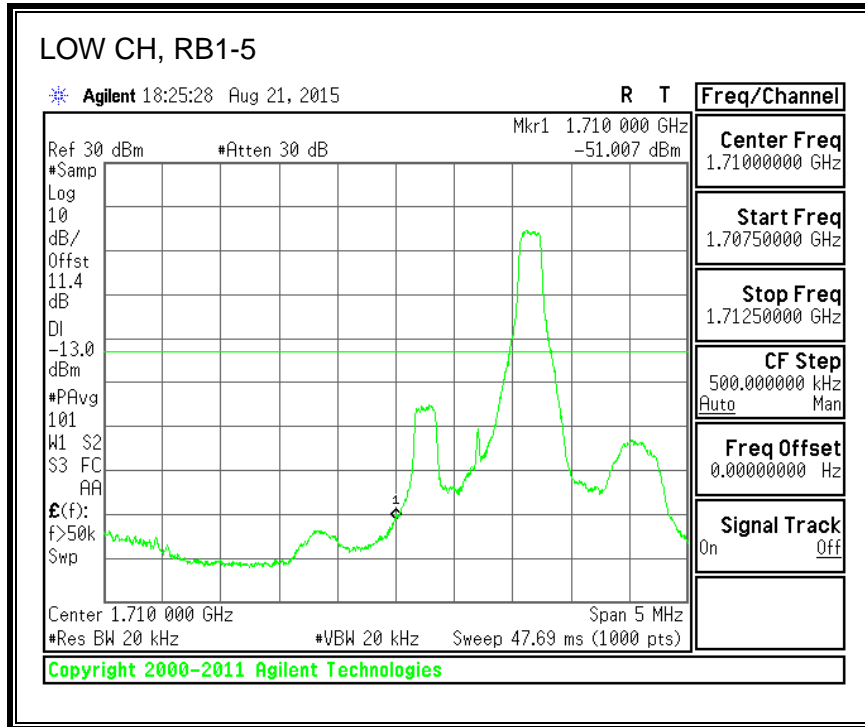


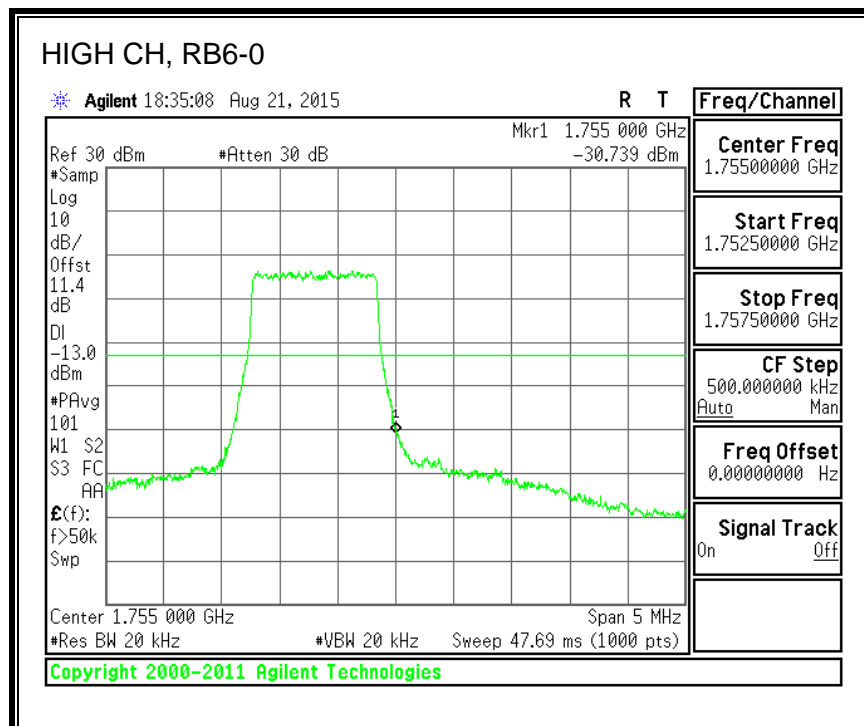
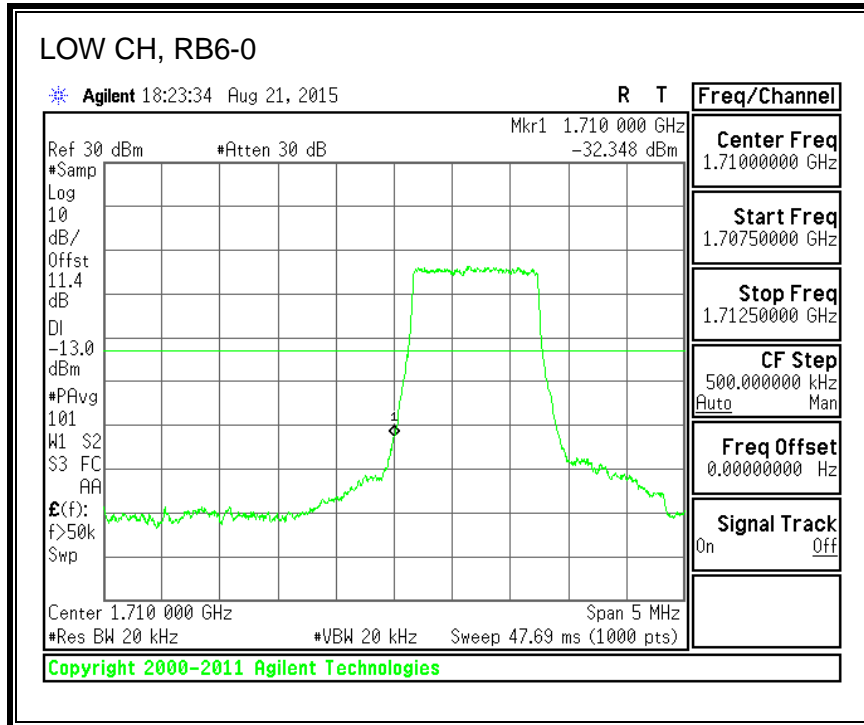


8.2.2. LTE BAND 4 BANDEDGE

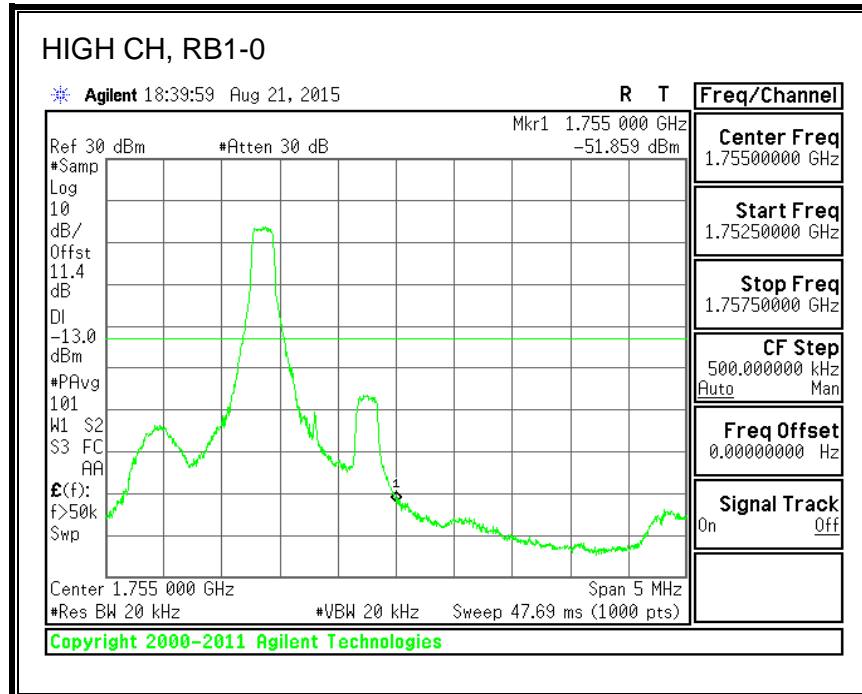
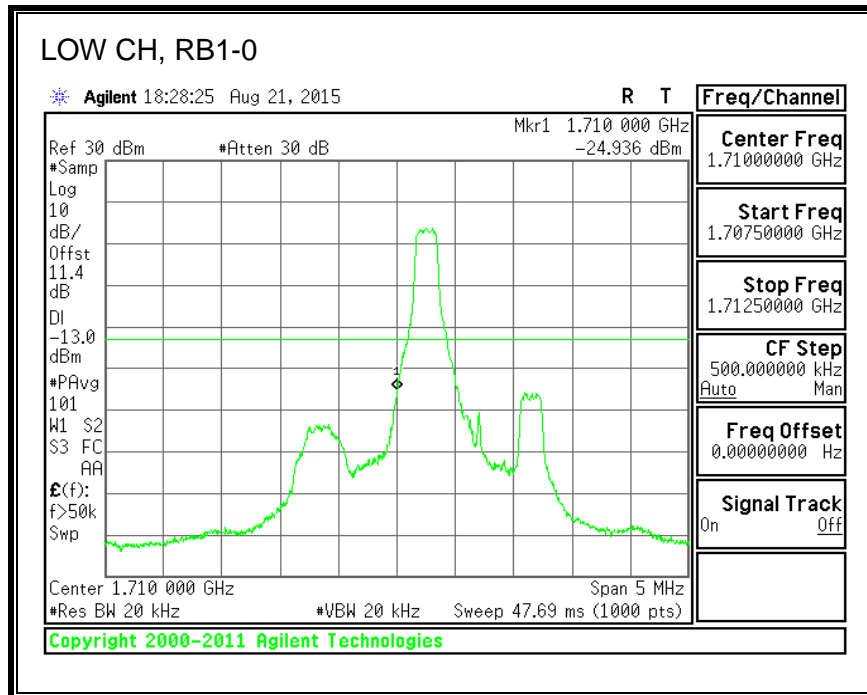
QPSK, (1.4 MHz BAND WIDTH)

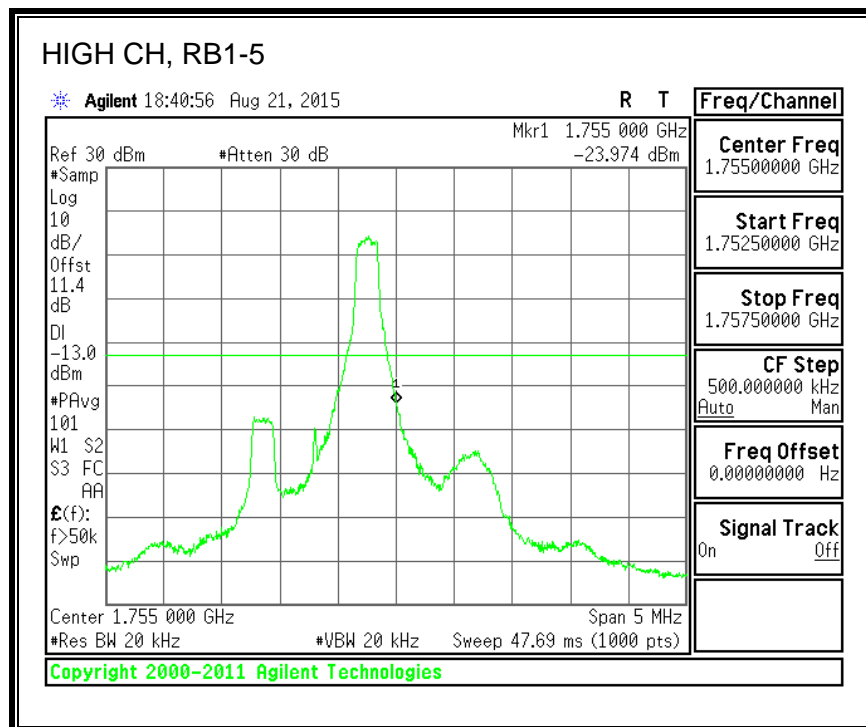
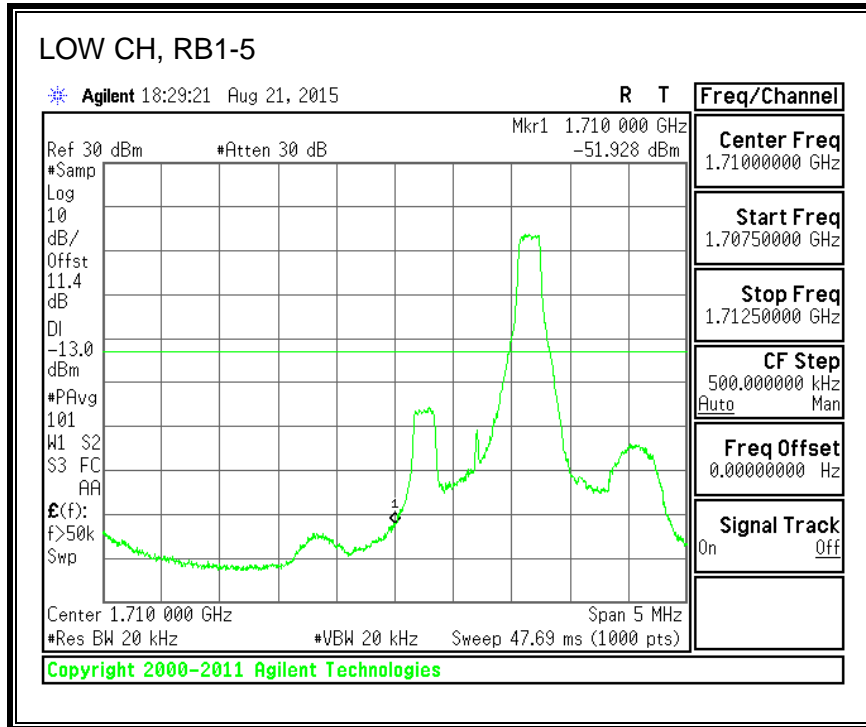


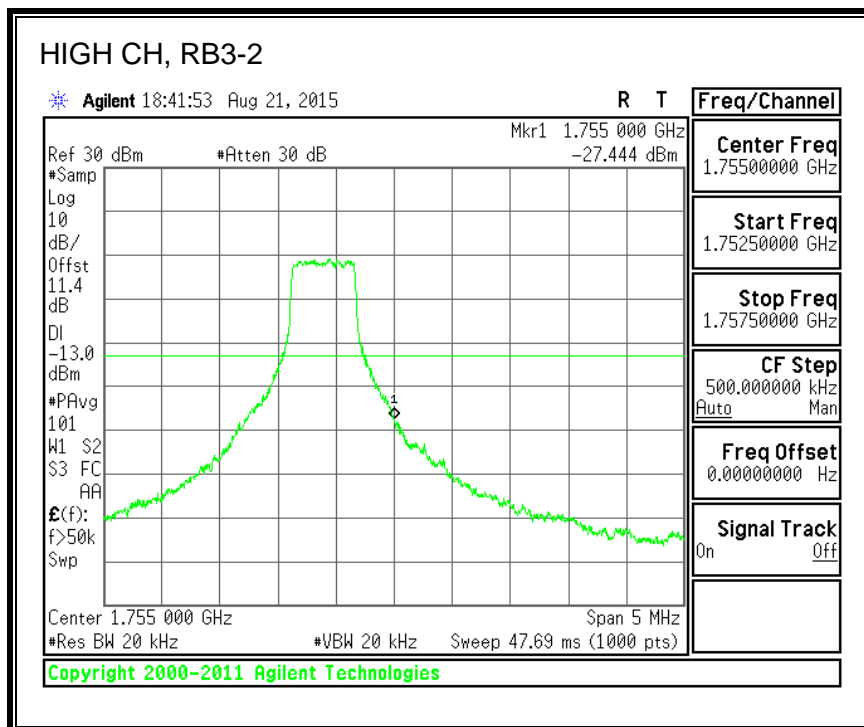
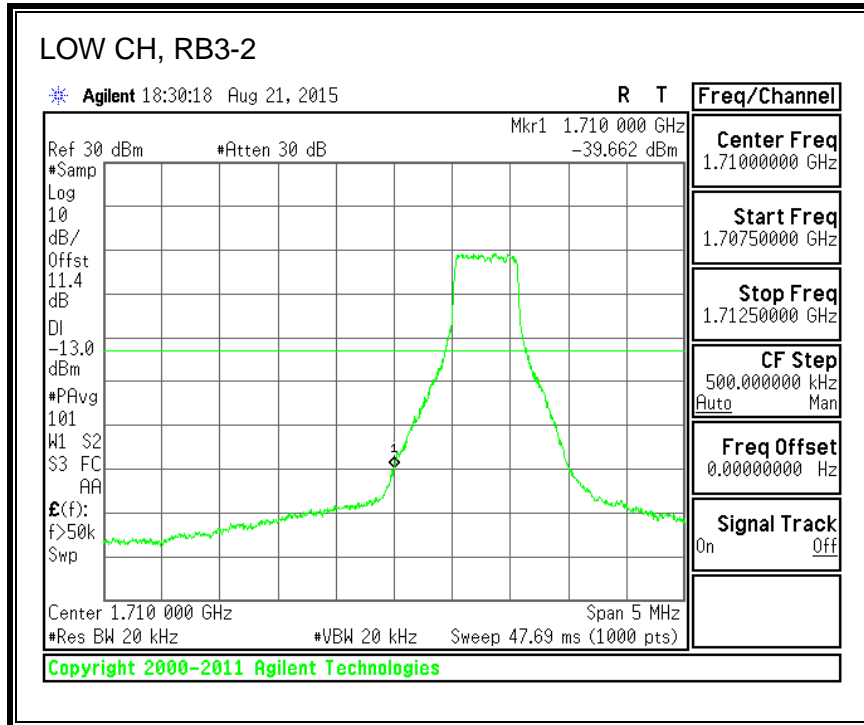


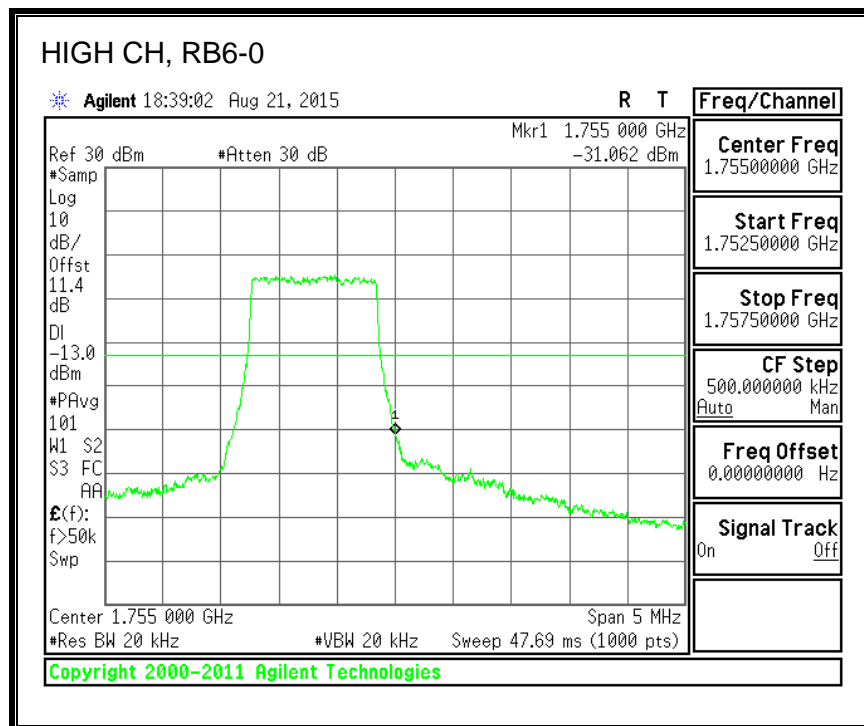
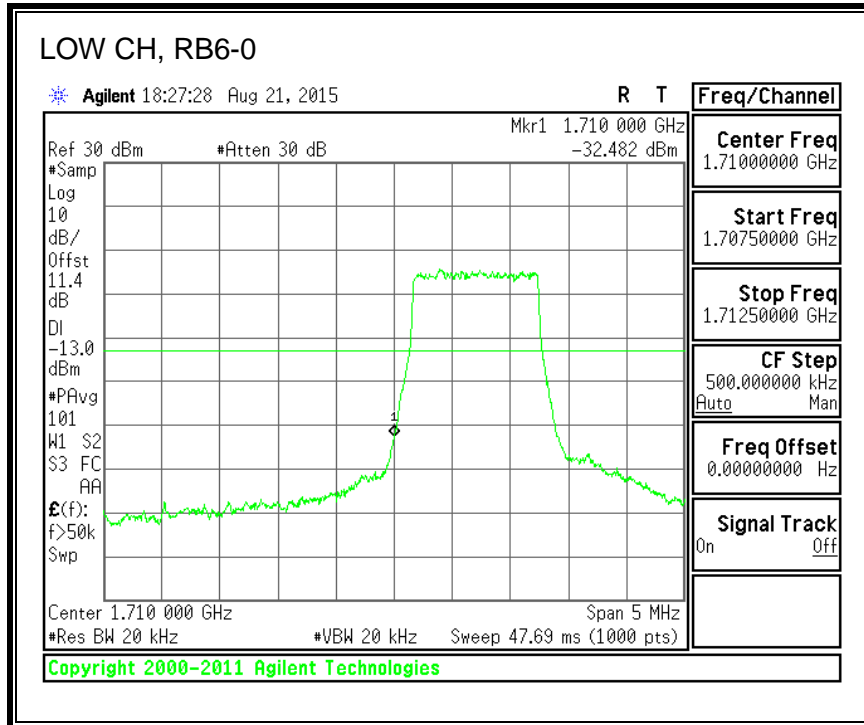


16QAM, (1.4 MHz BAND WIDTH)

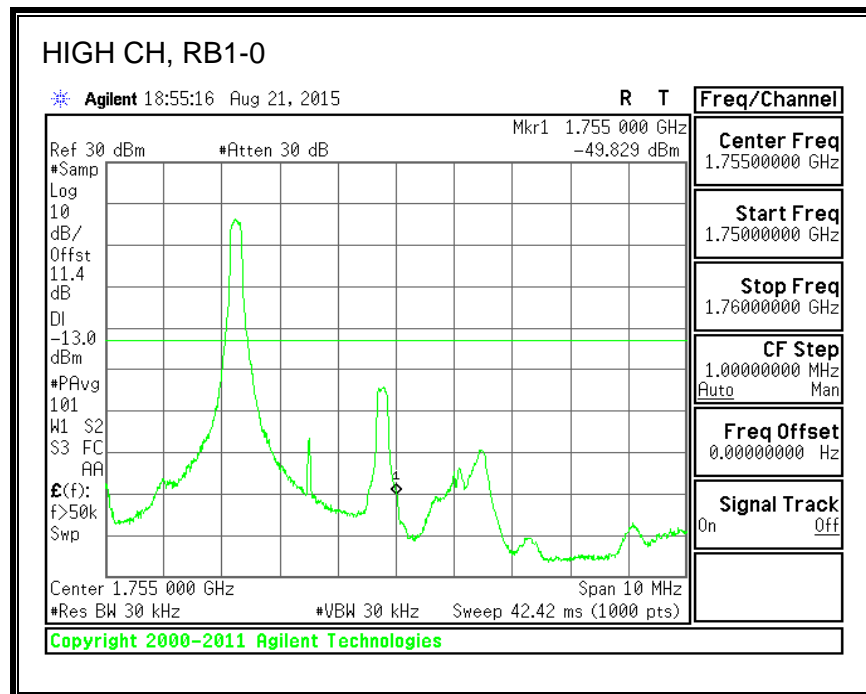
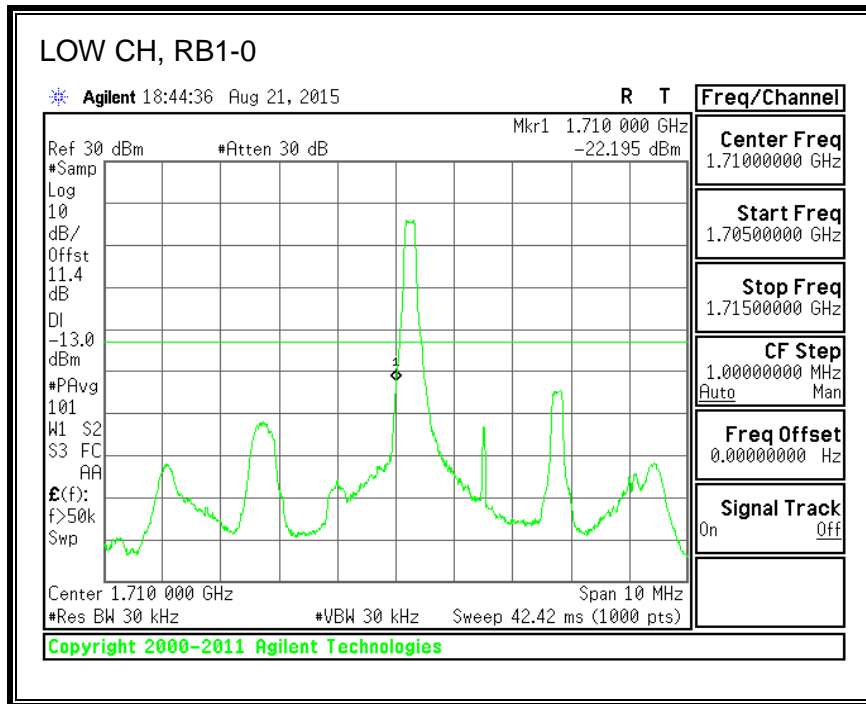


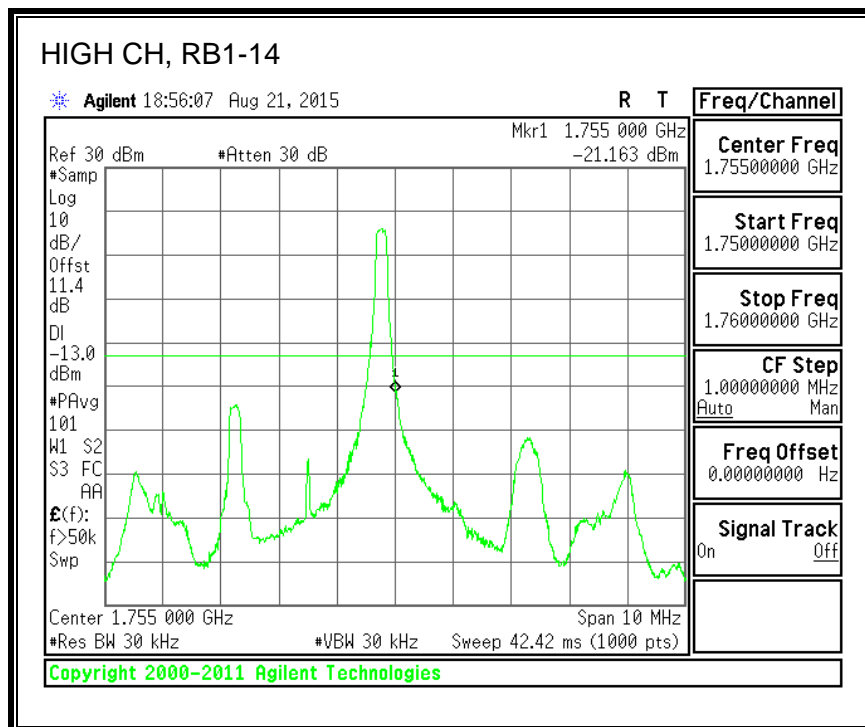
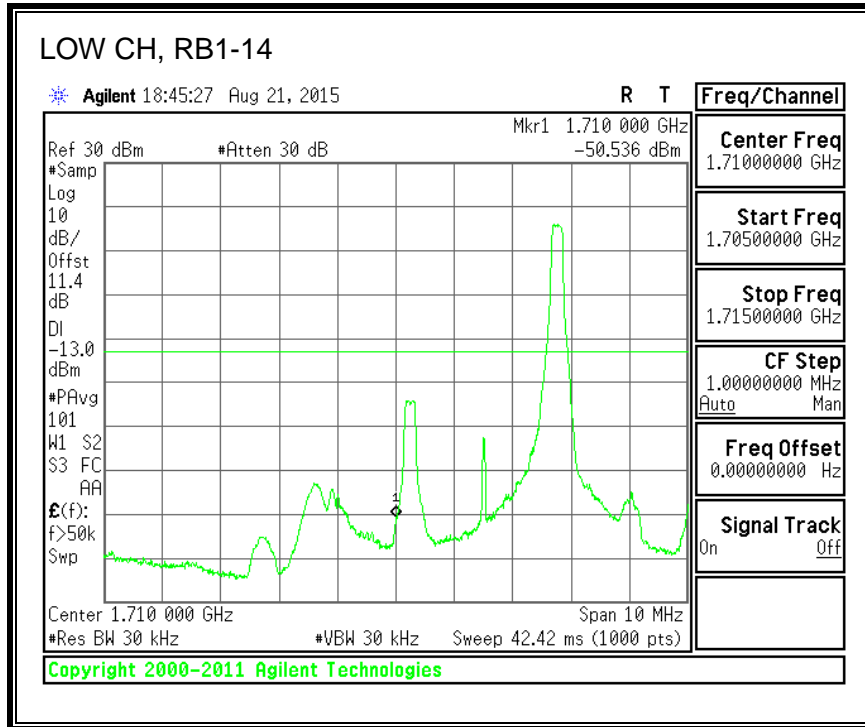


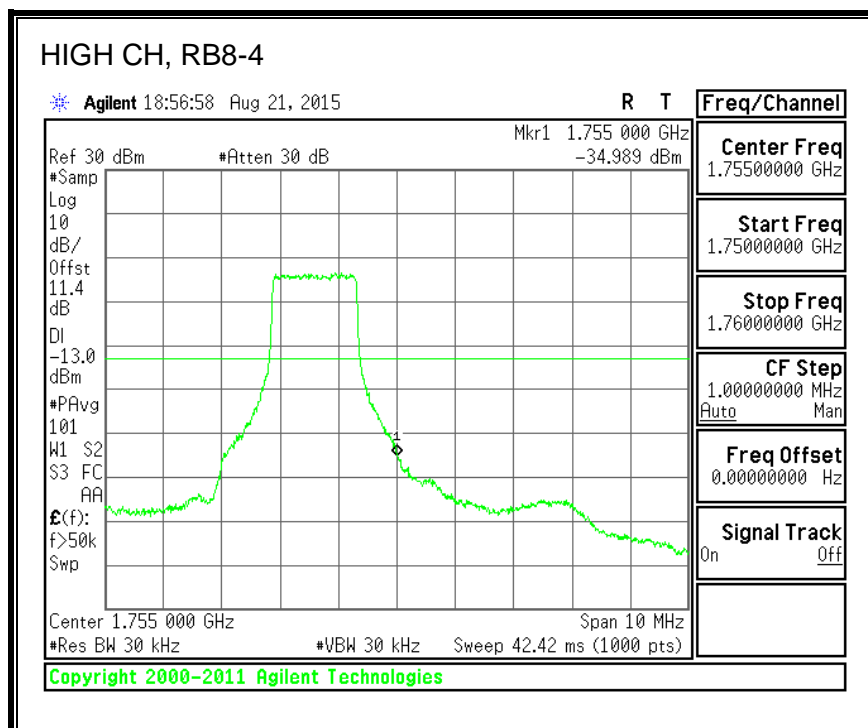
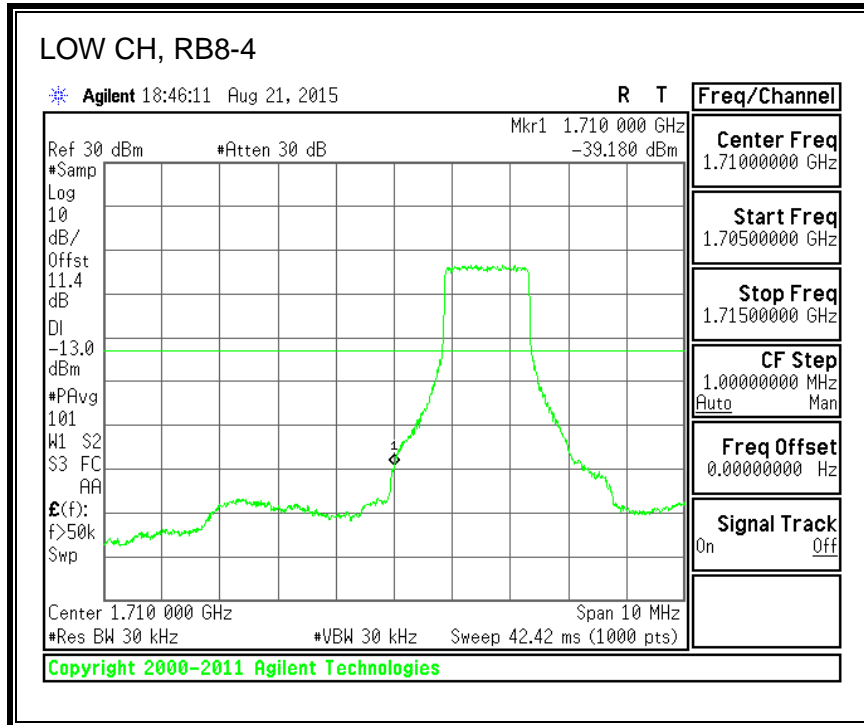


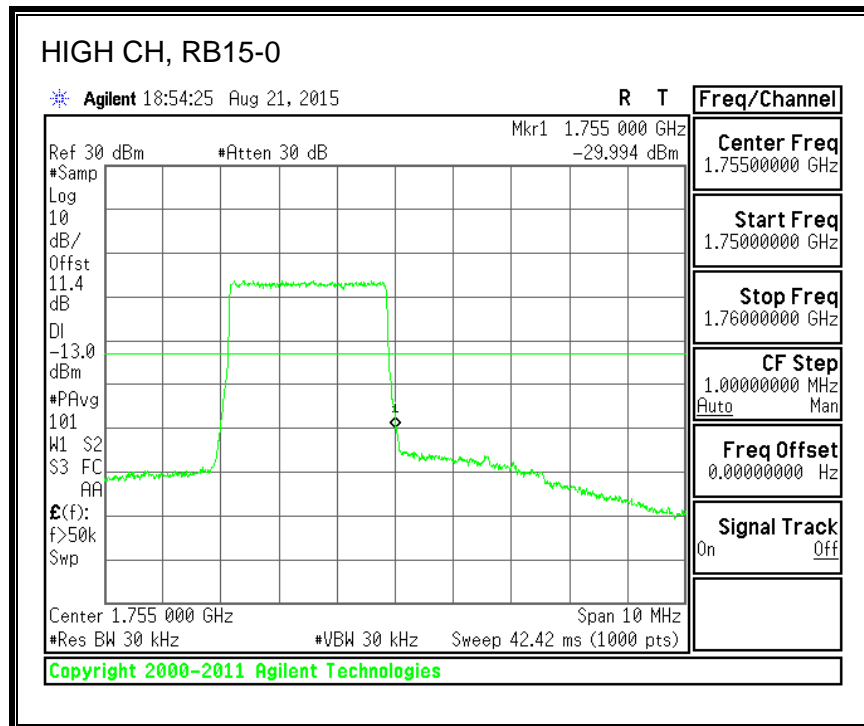
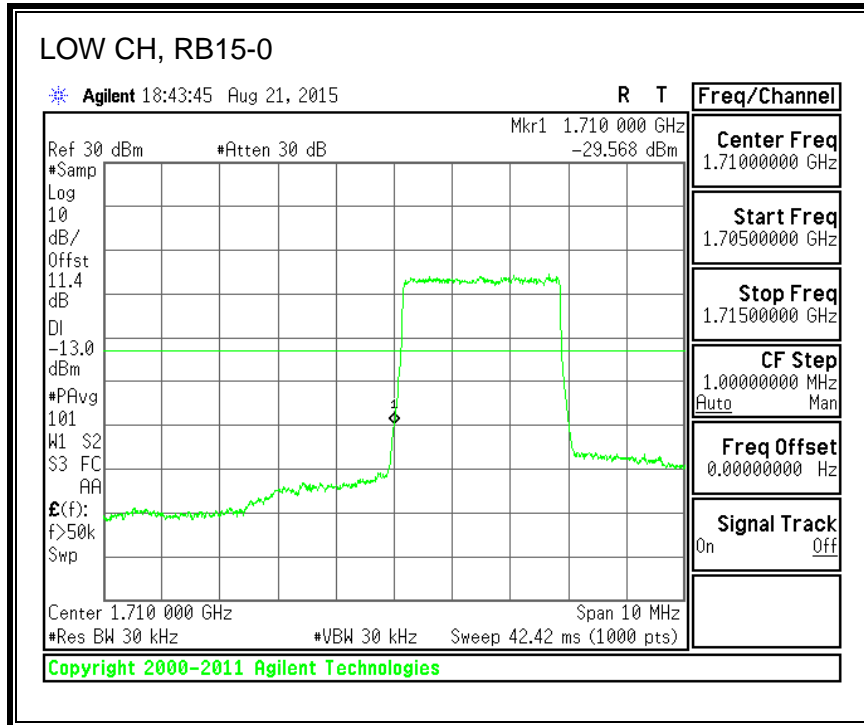


QPSK, (3.0 MHz BAND WIDTH)

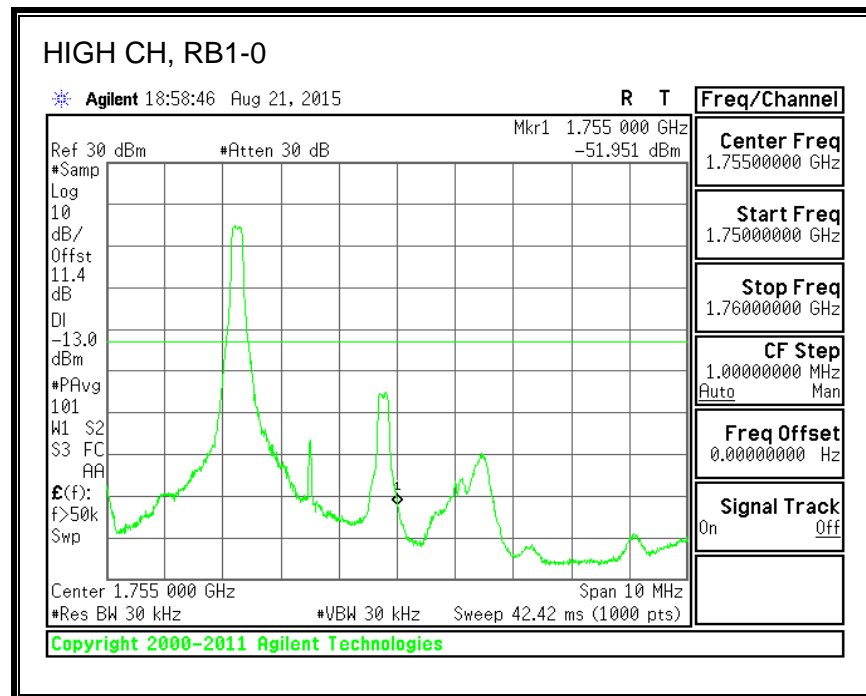
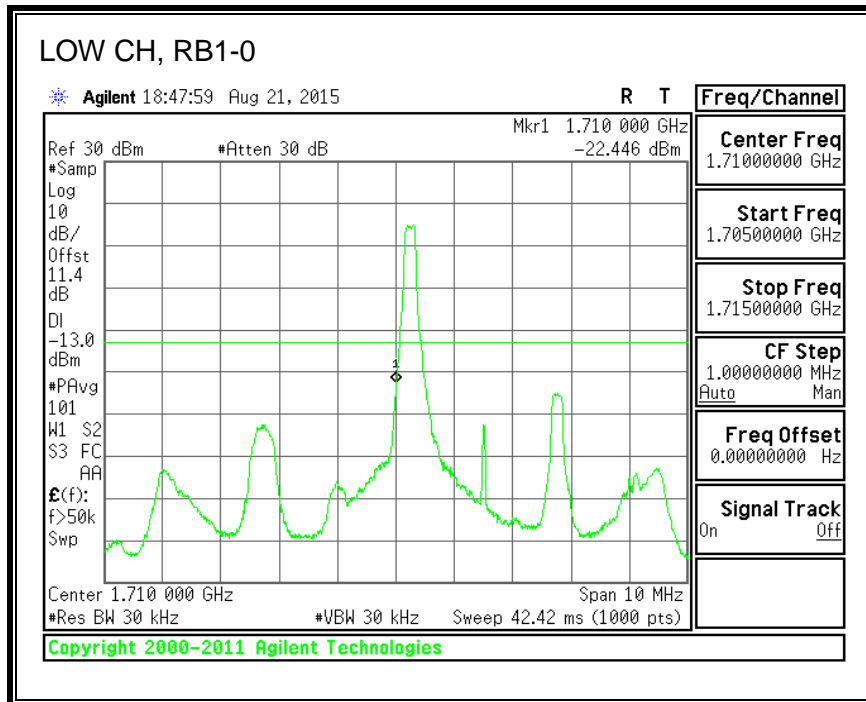


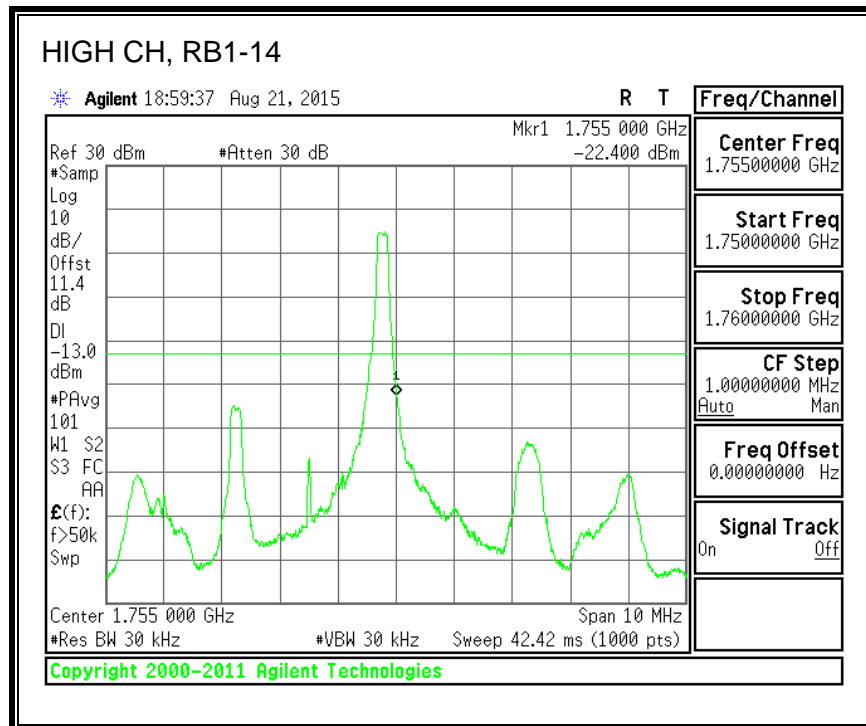
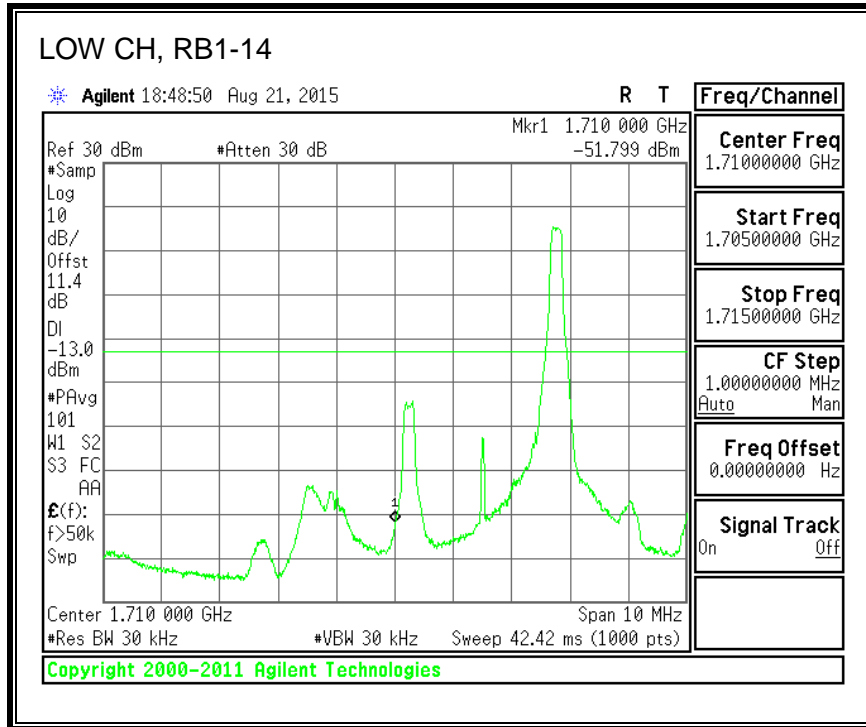


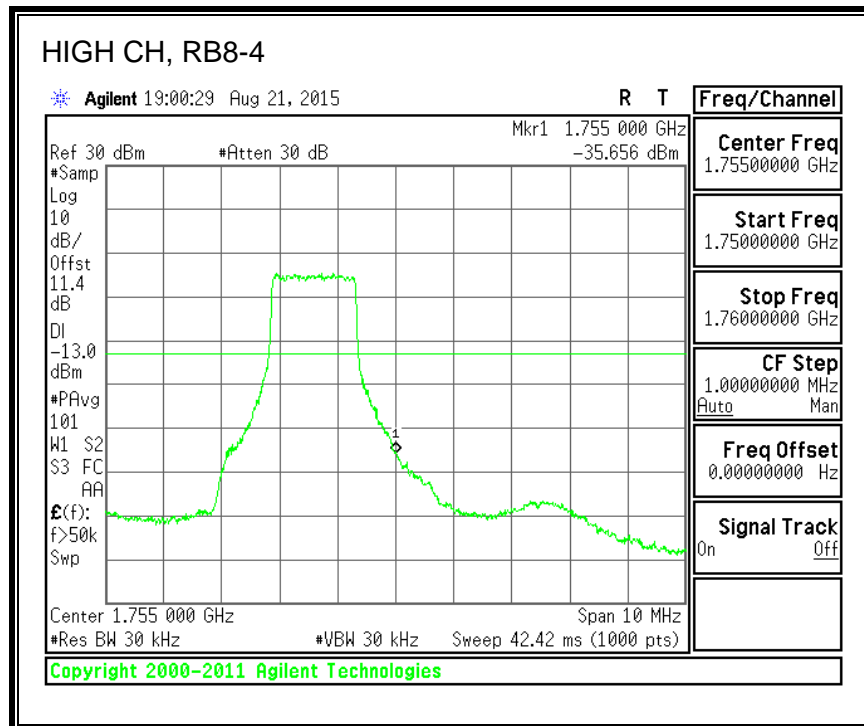
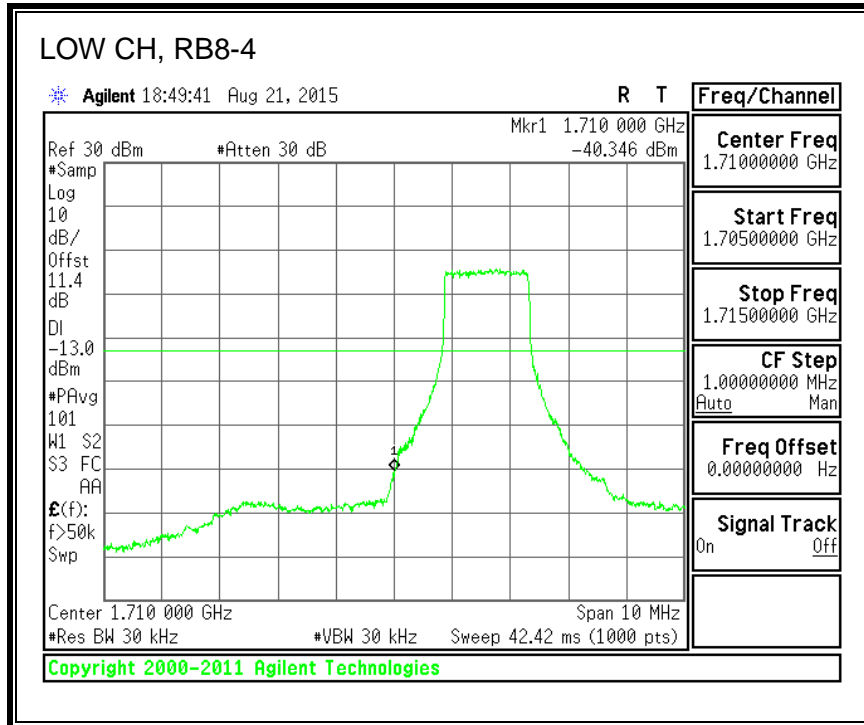


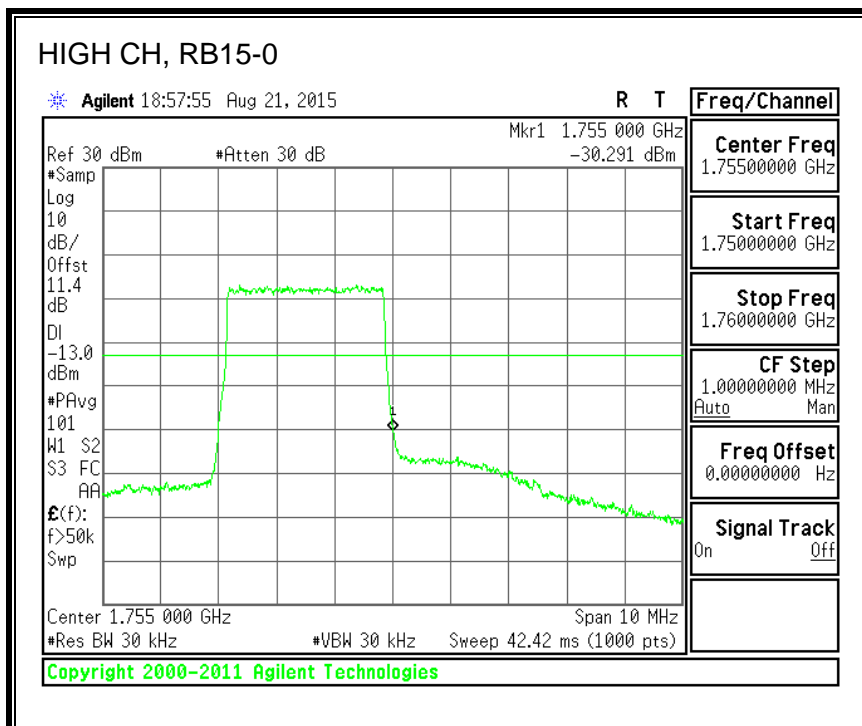
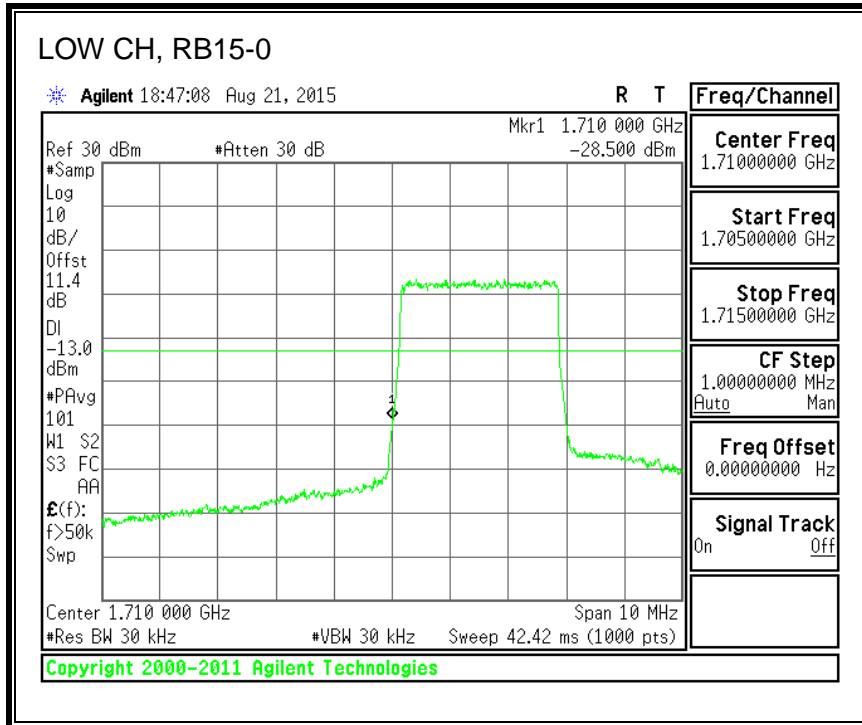


16QAM, (3.0 MHz BAND WIDTH)

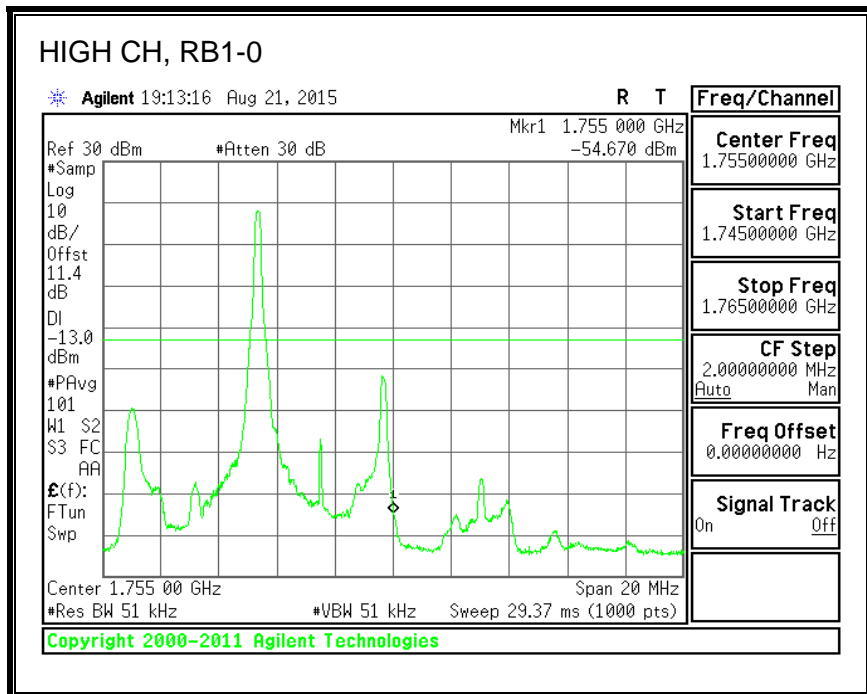
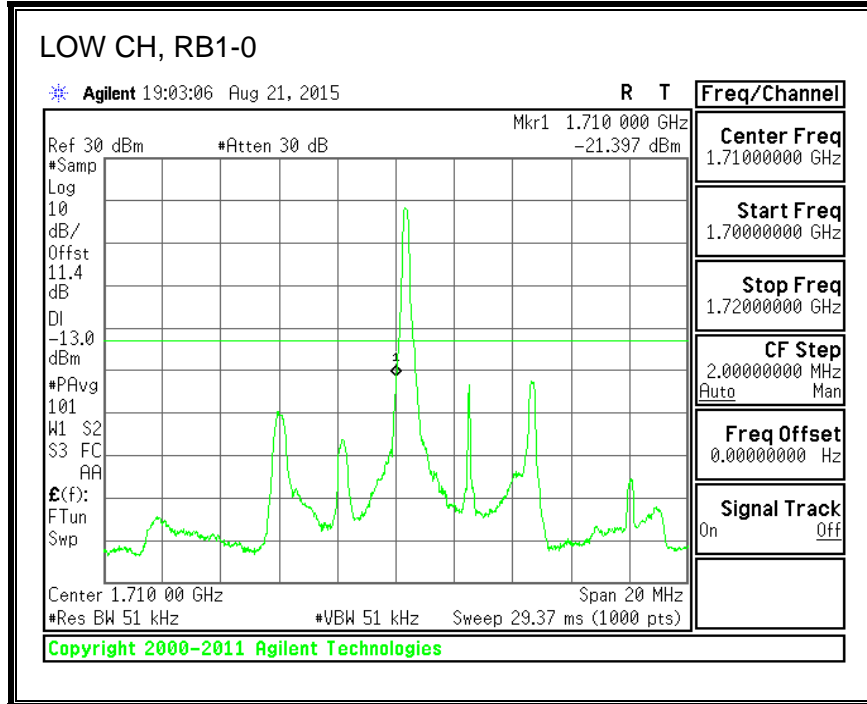


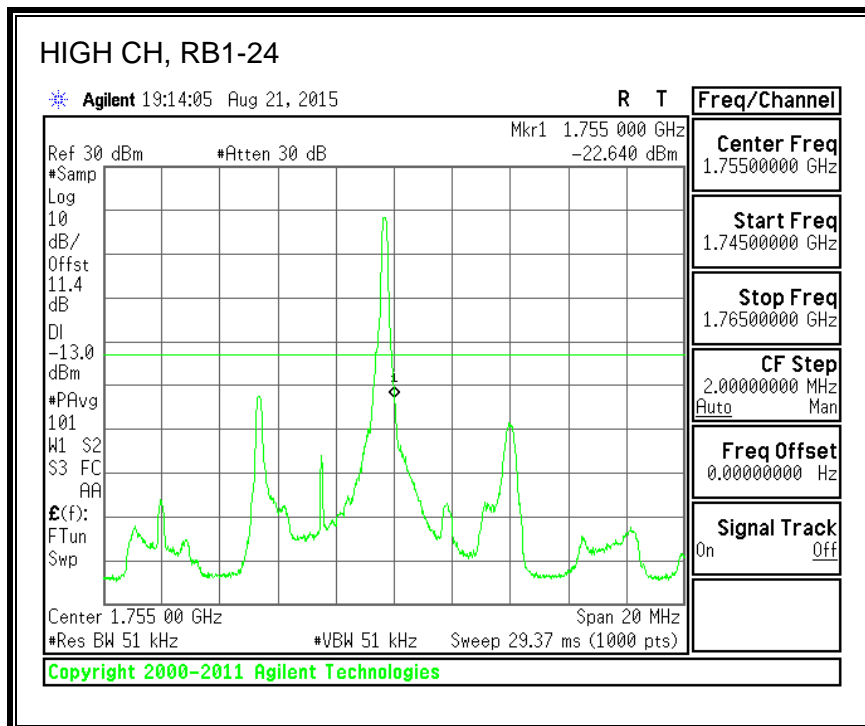
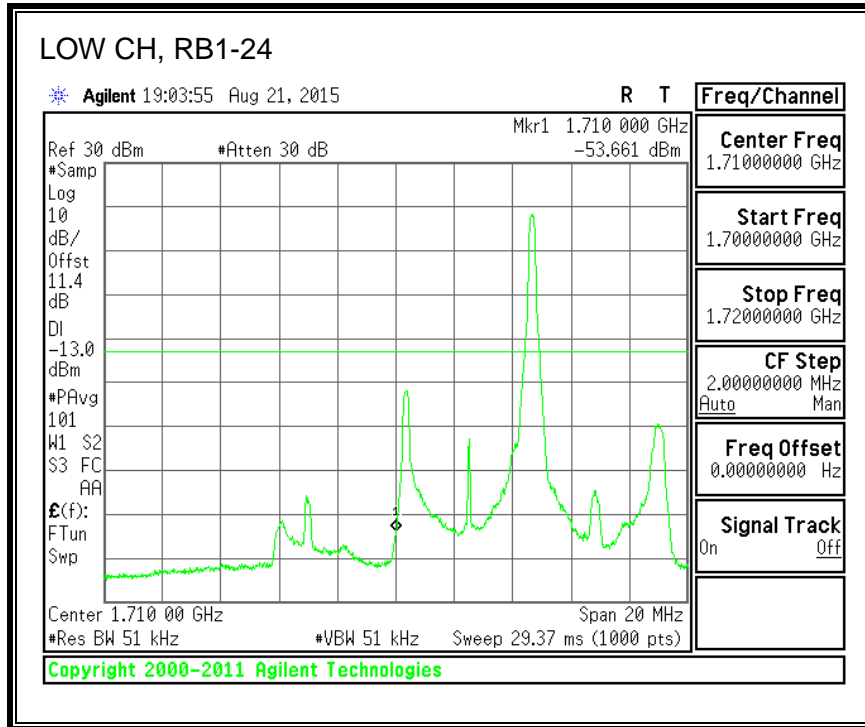


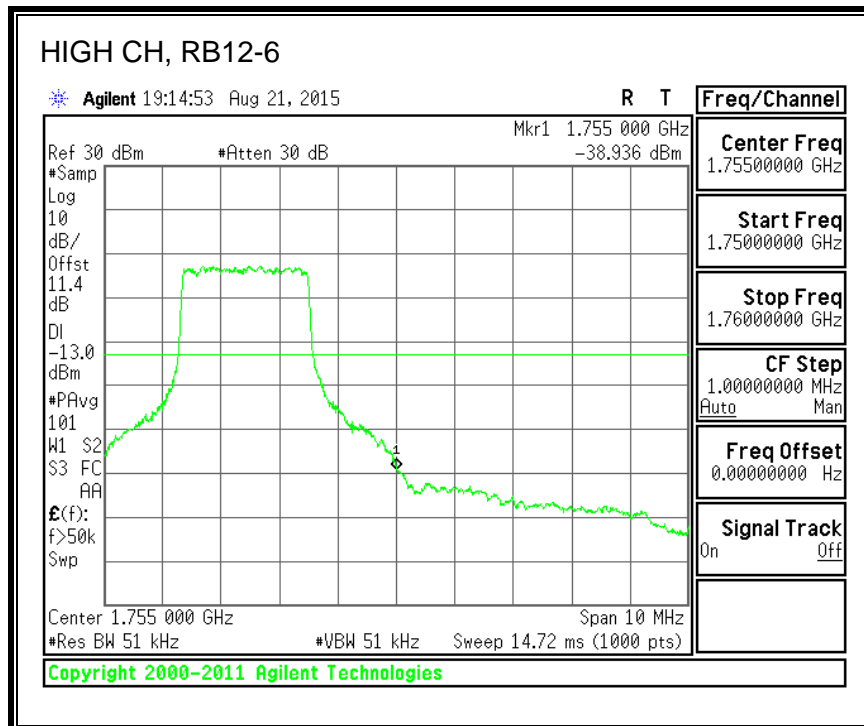
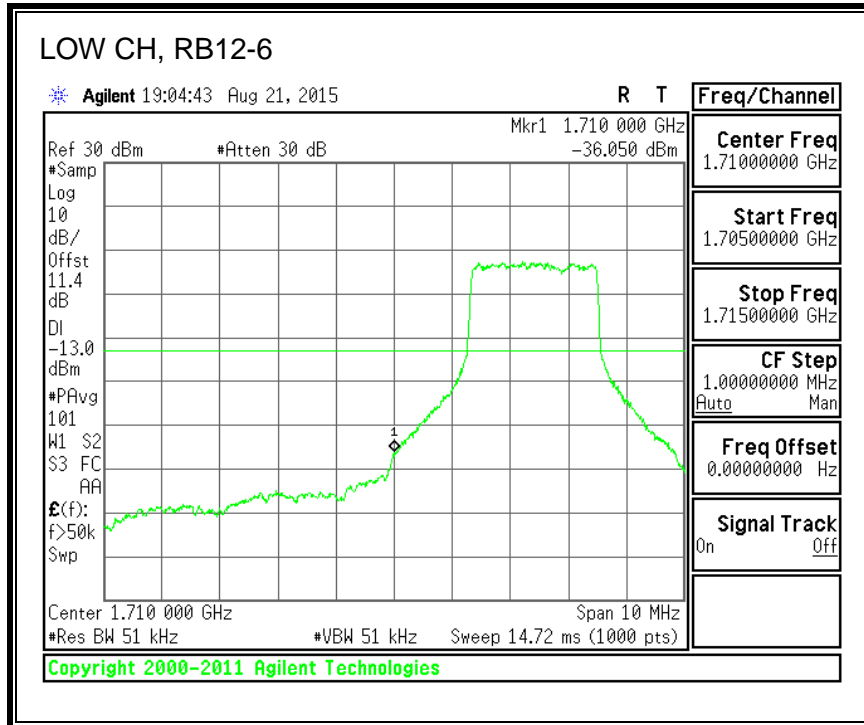


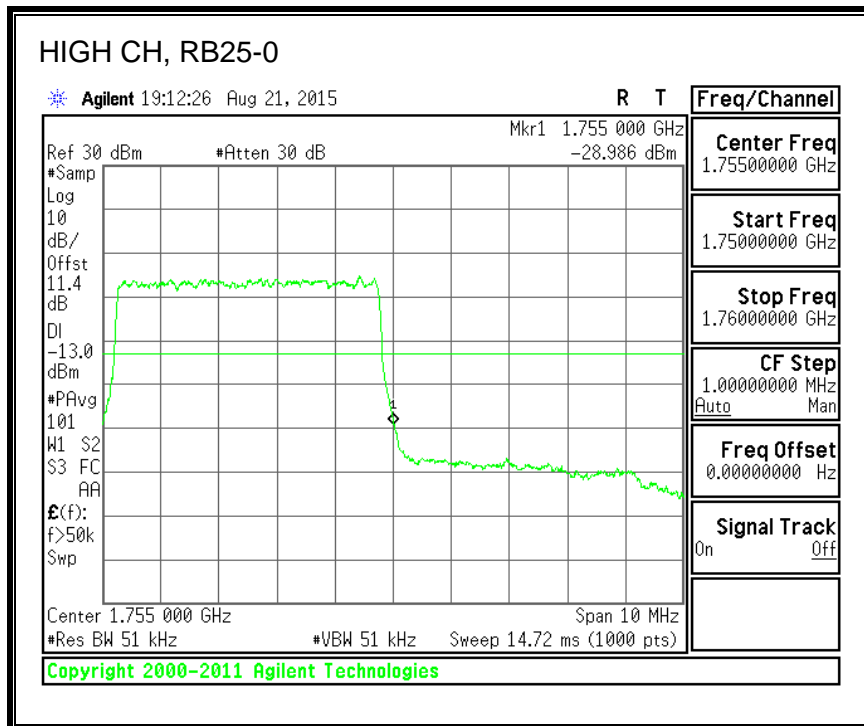
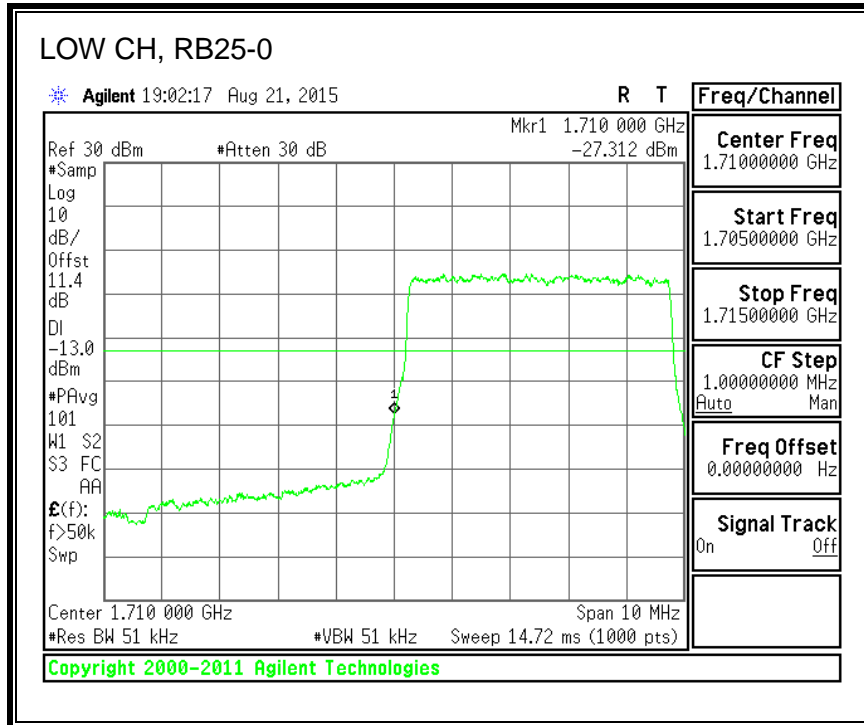


QPSK, (5.0 MHz BAND WIDTH)

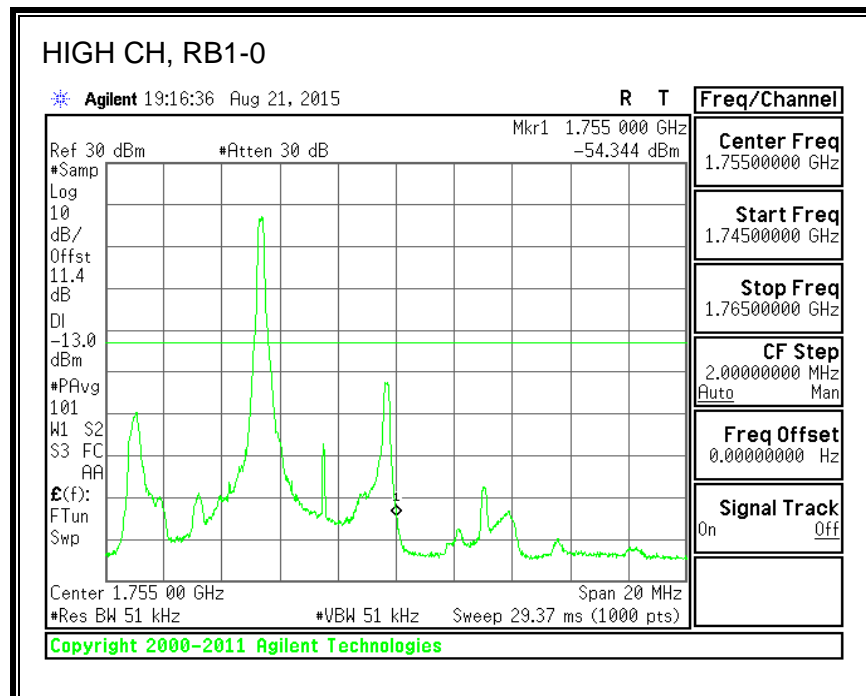
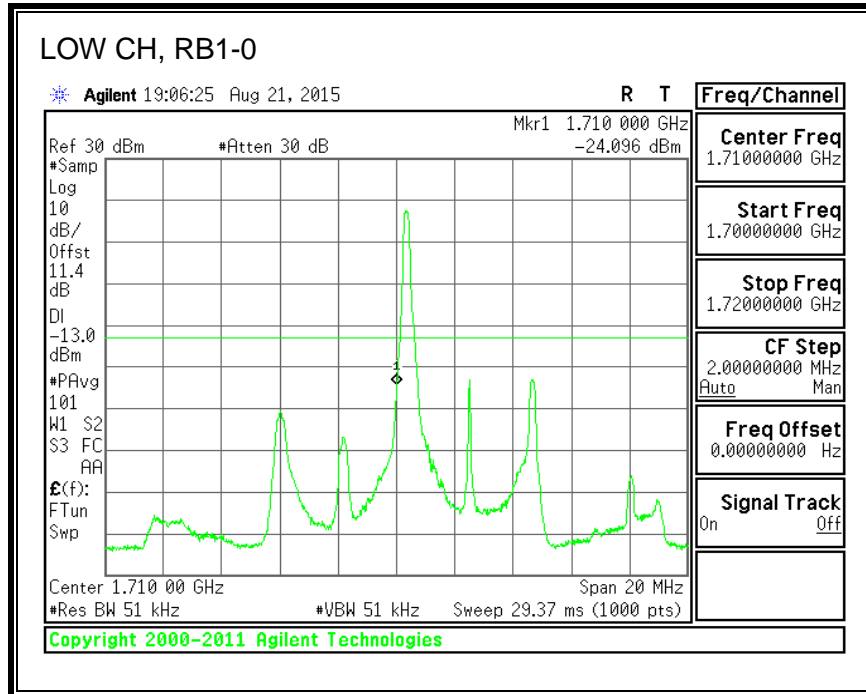


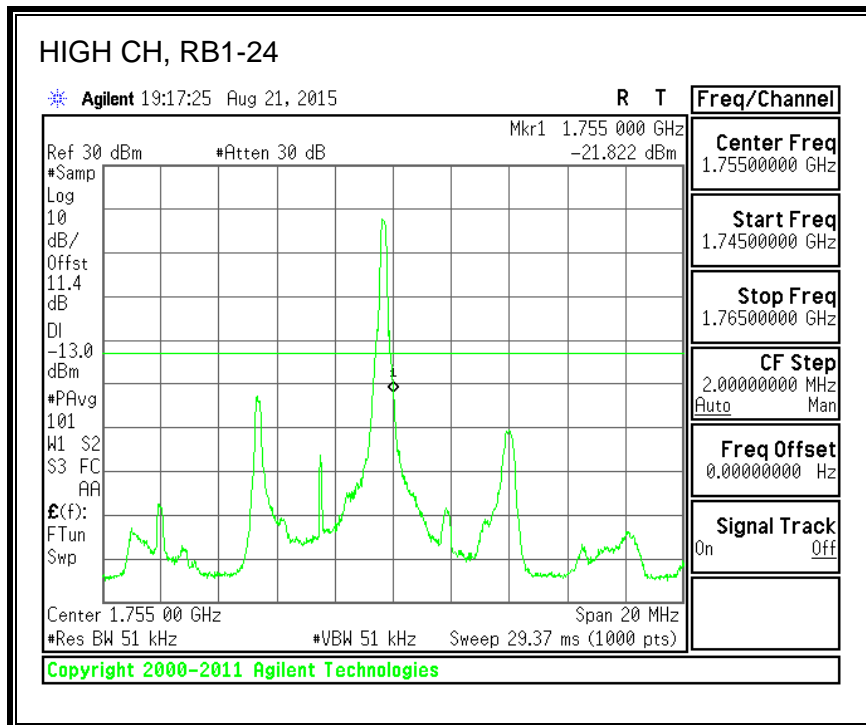
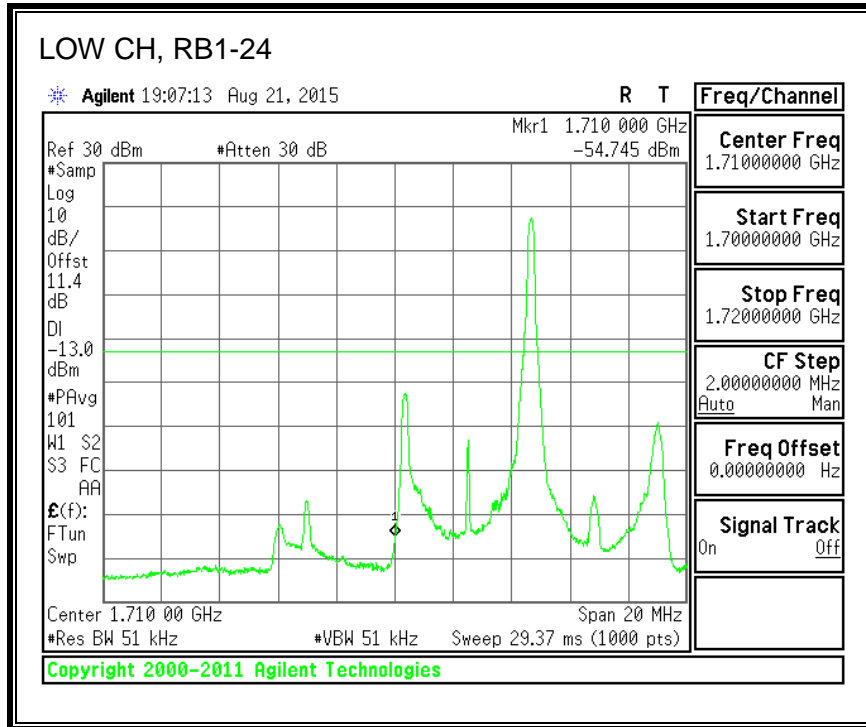


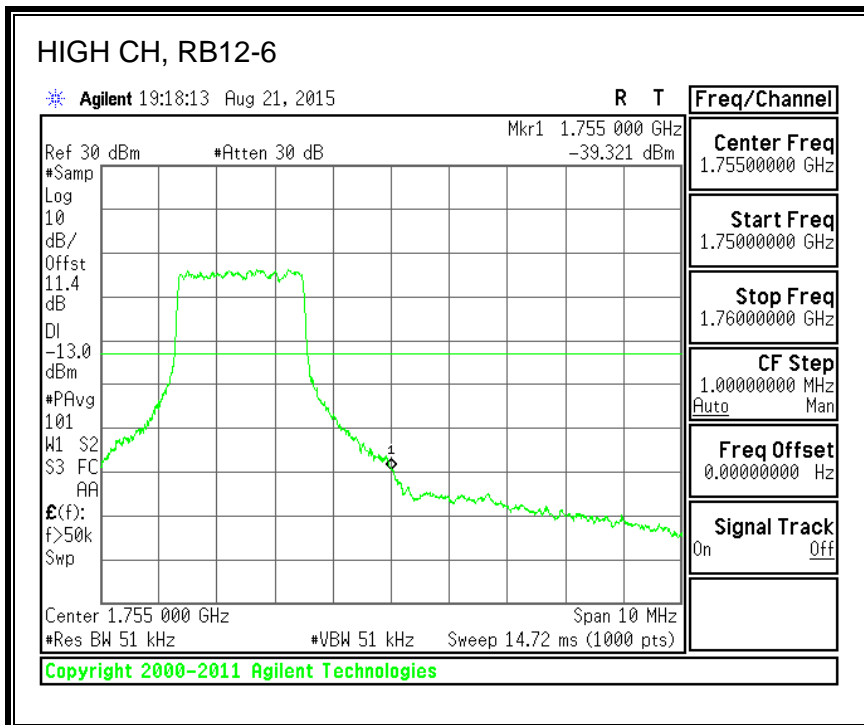
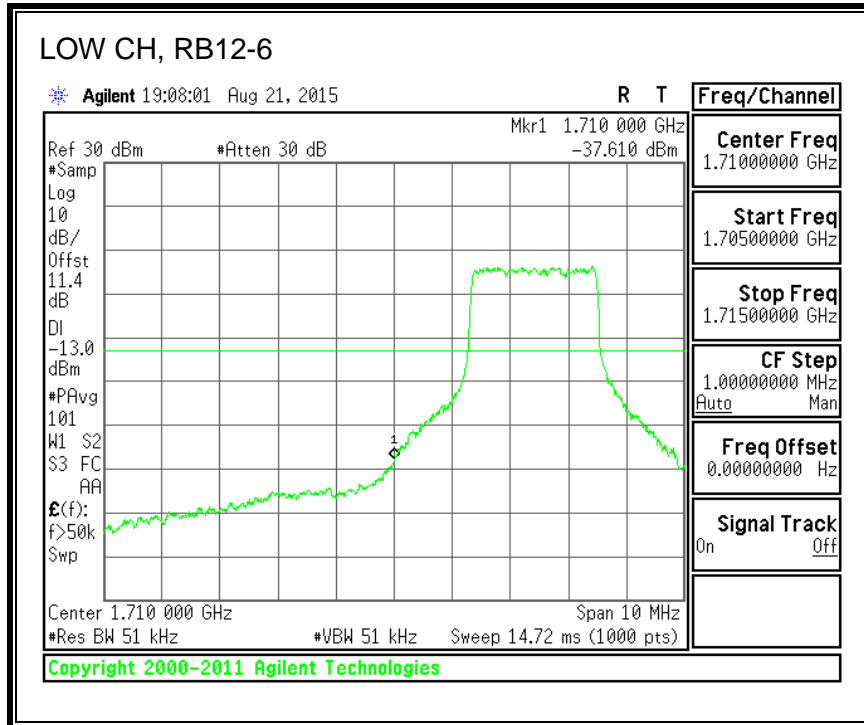


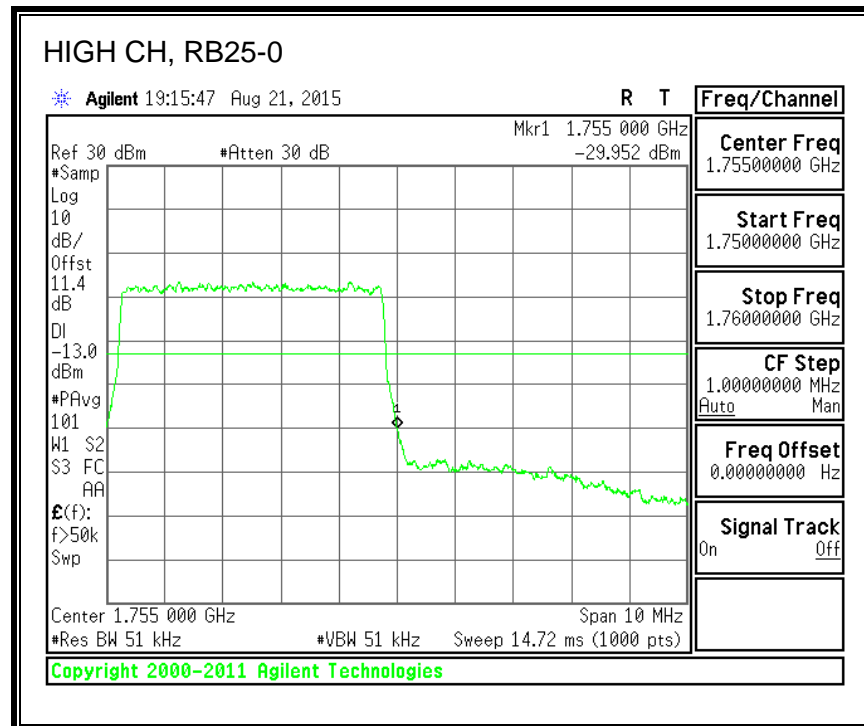
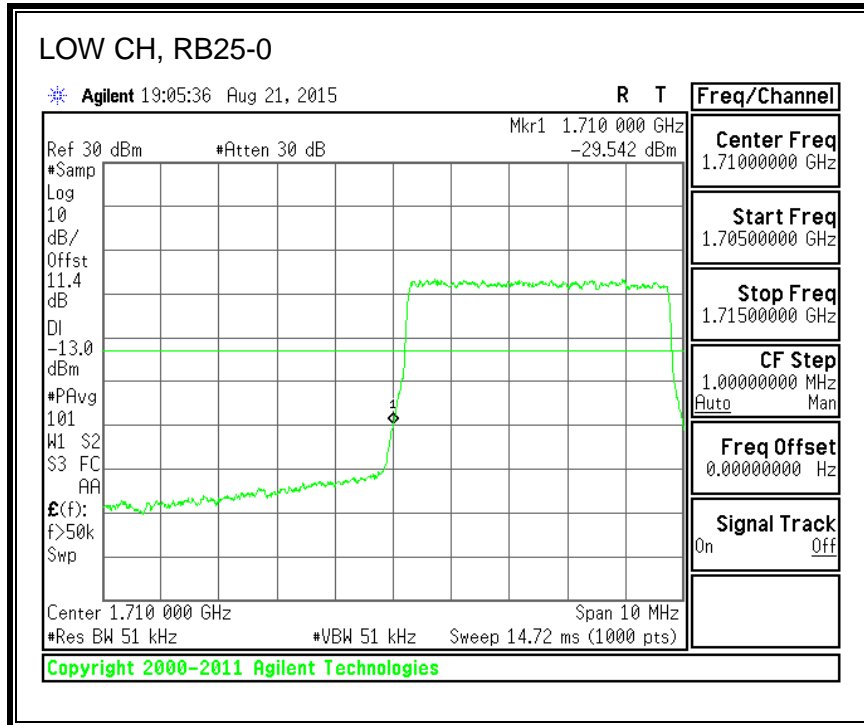


16QAM, (5.0 MHz BAND WIDTH)

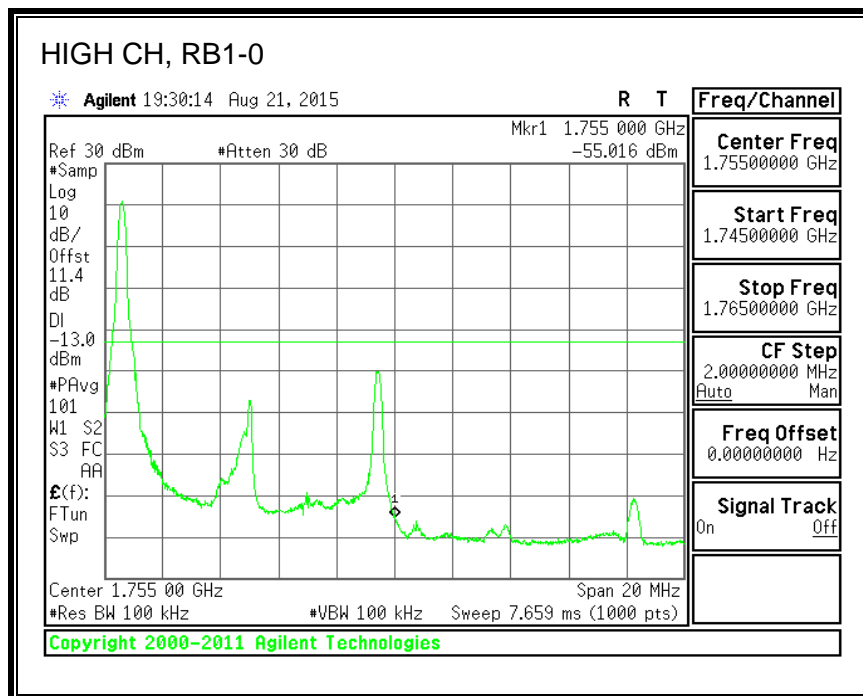
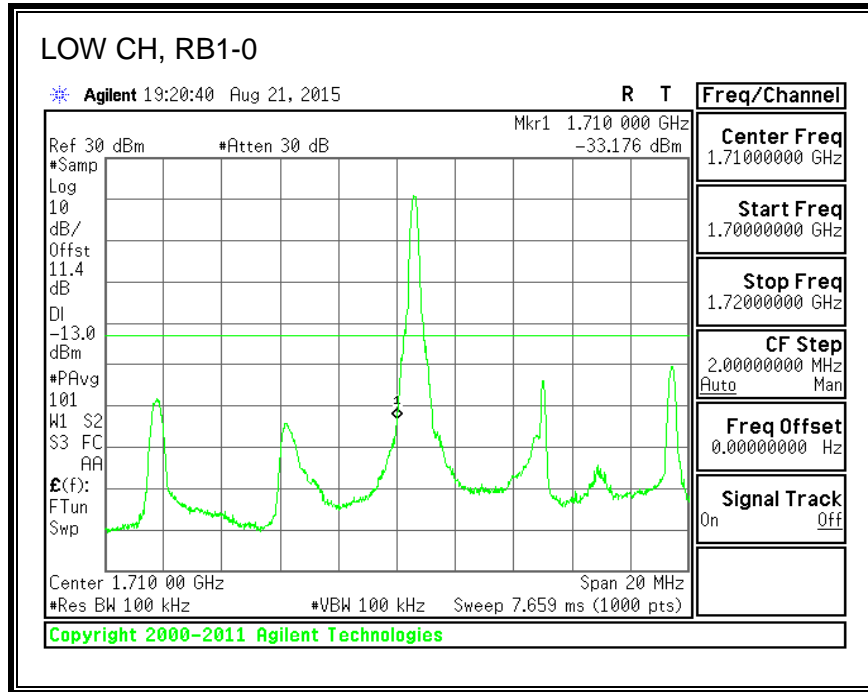


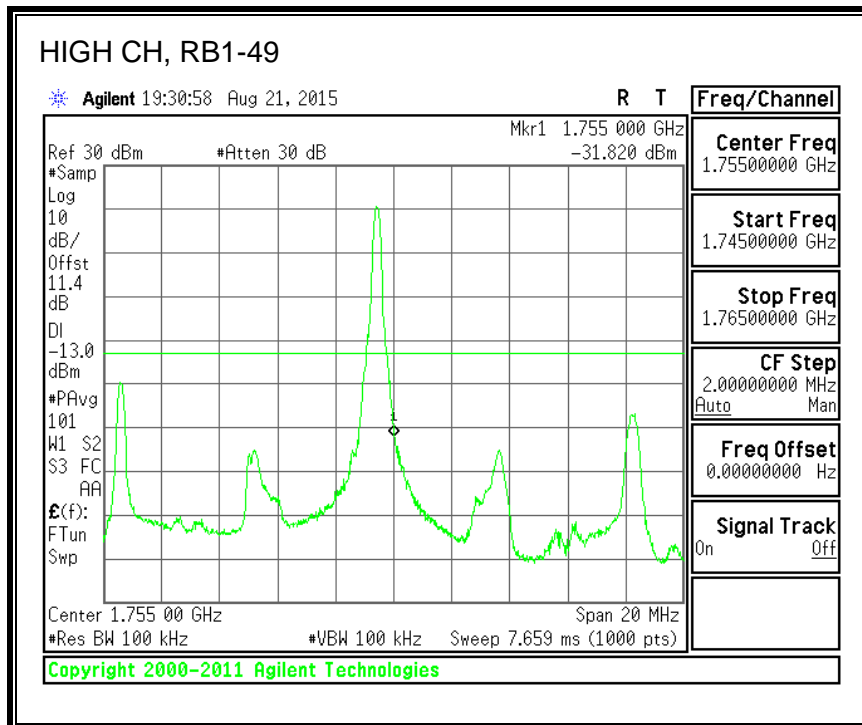
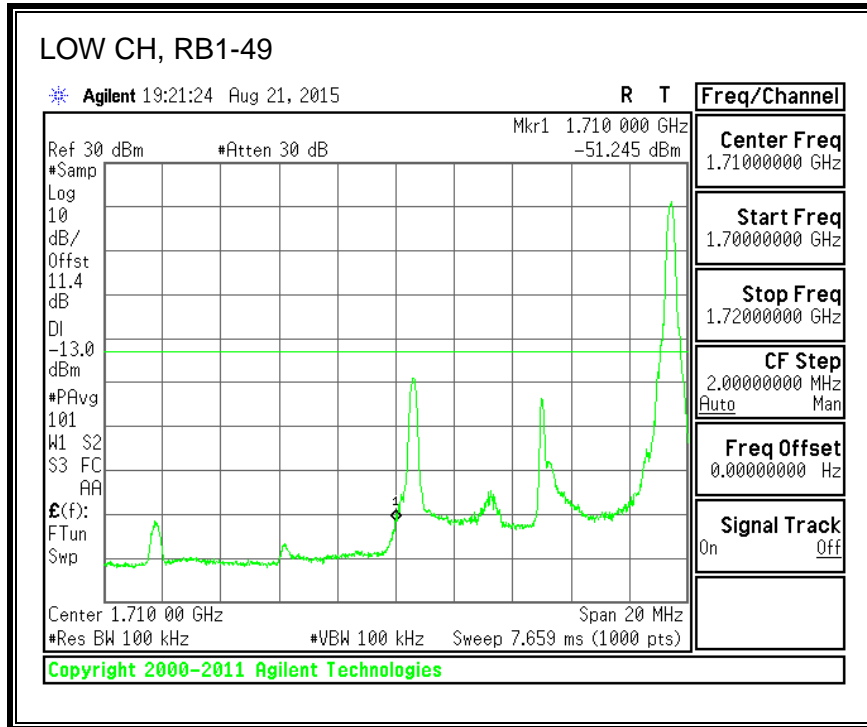


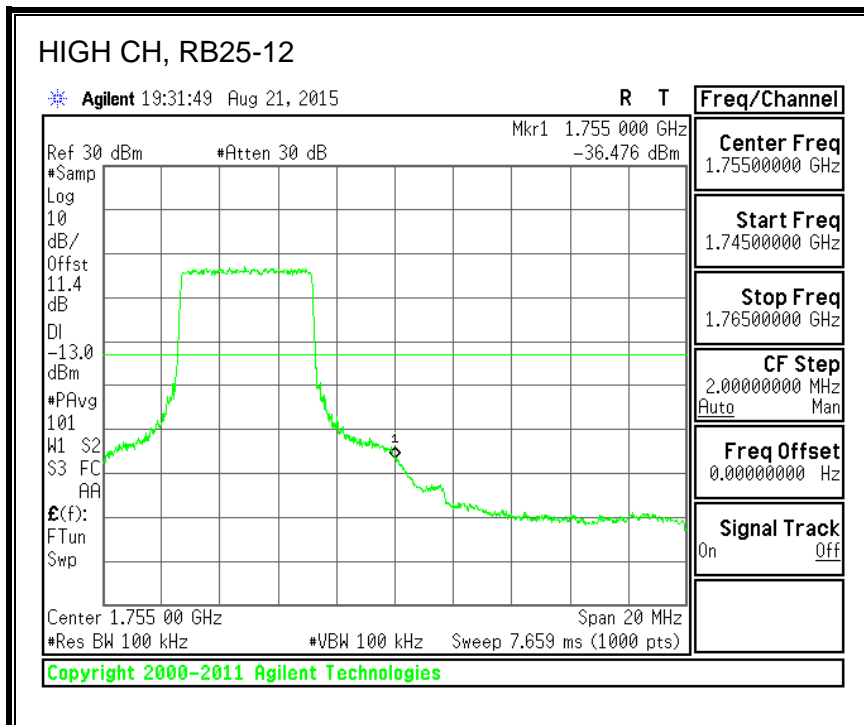
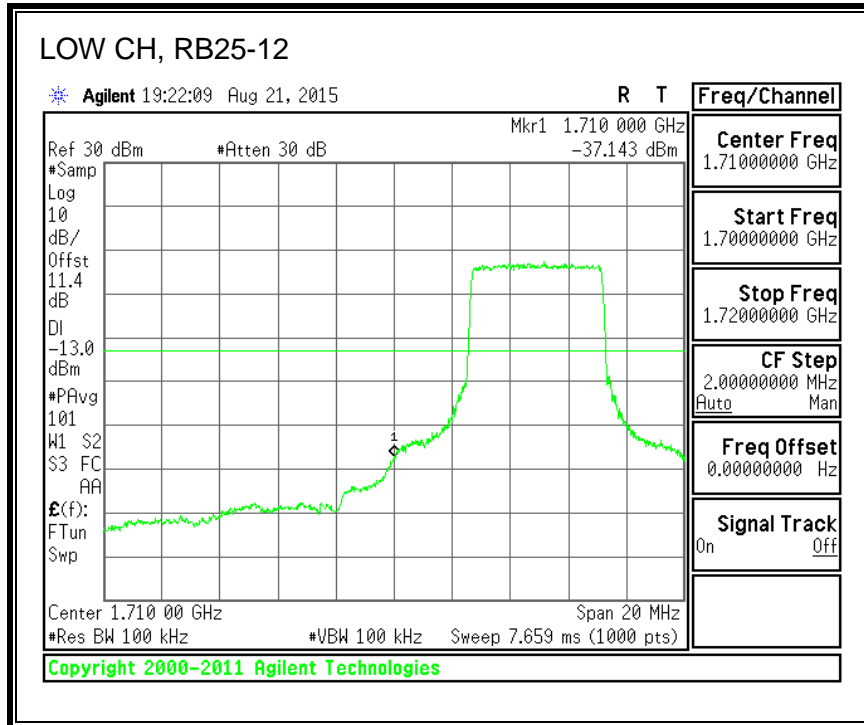


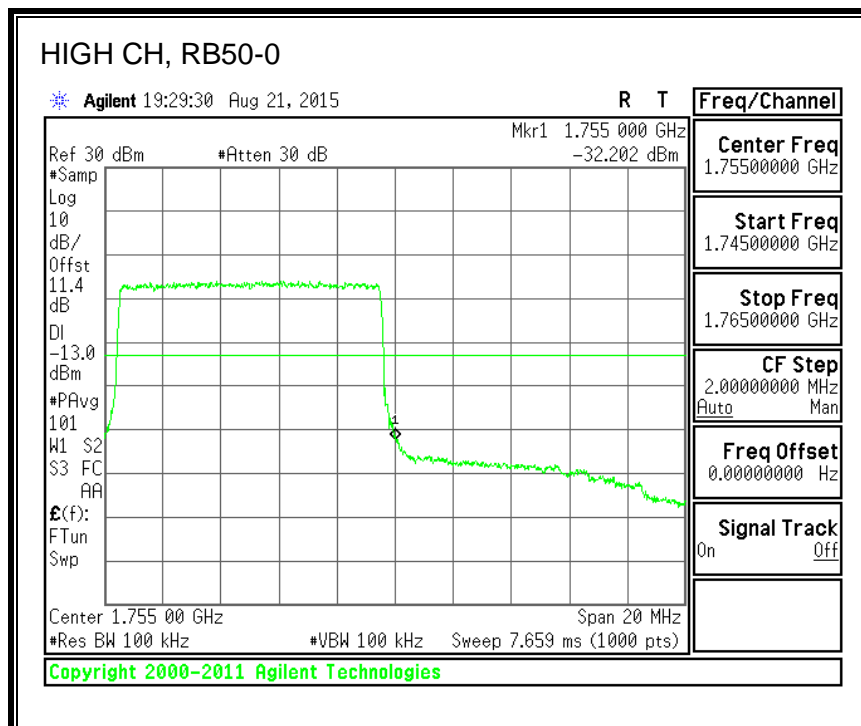
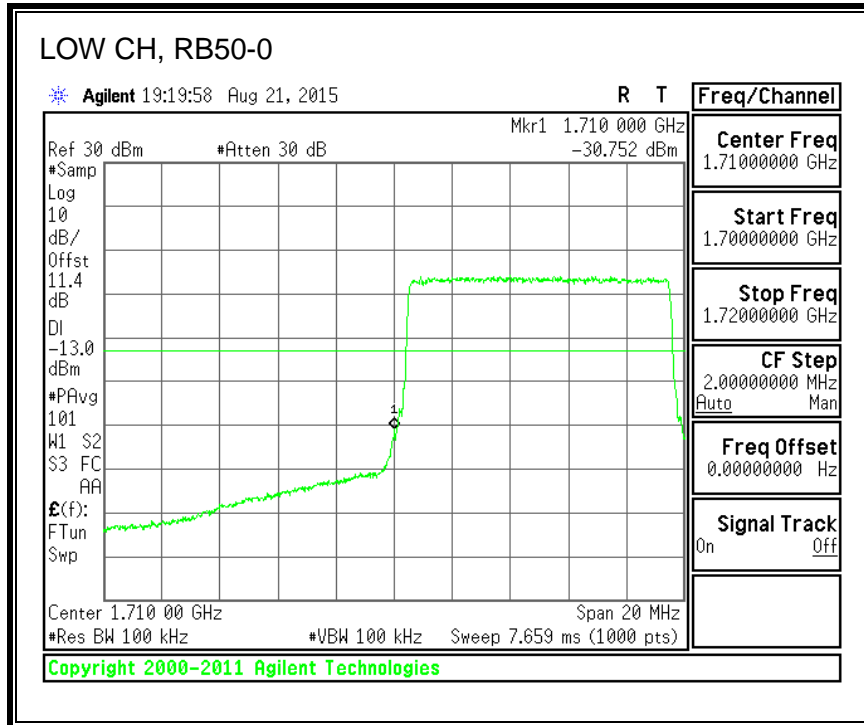


QPSK, (10.0 MHz BAND WIDTH)

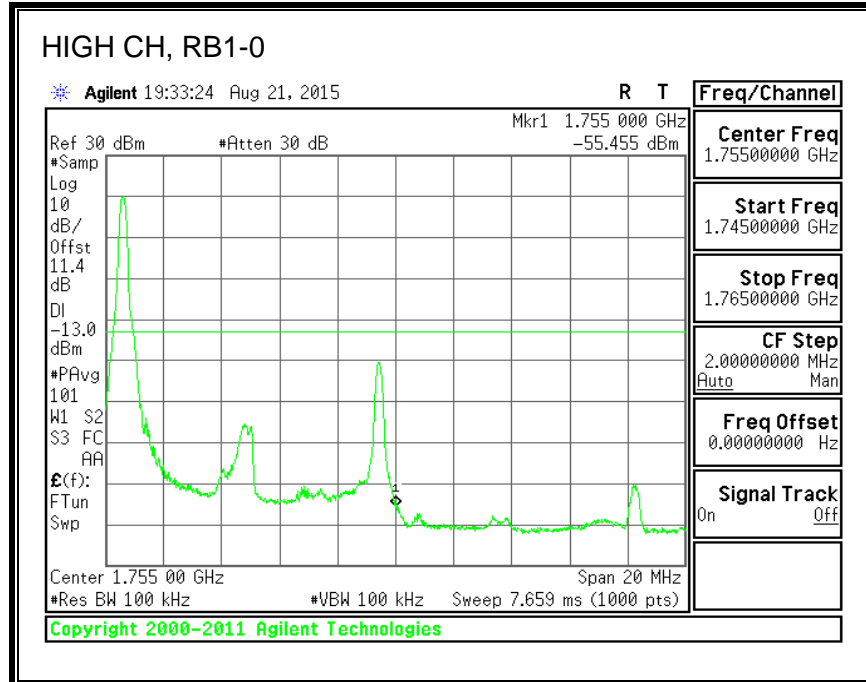
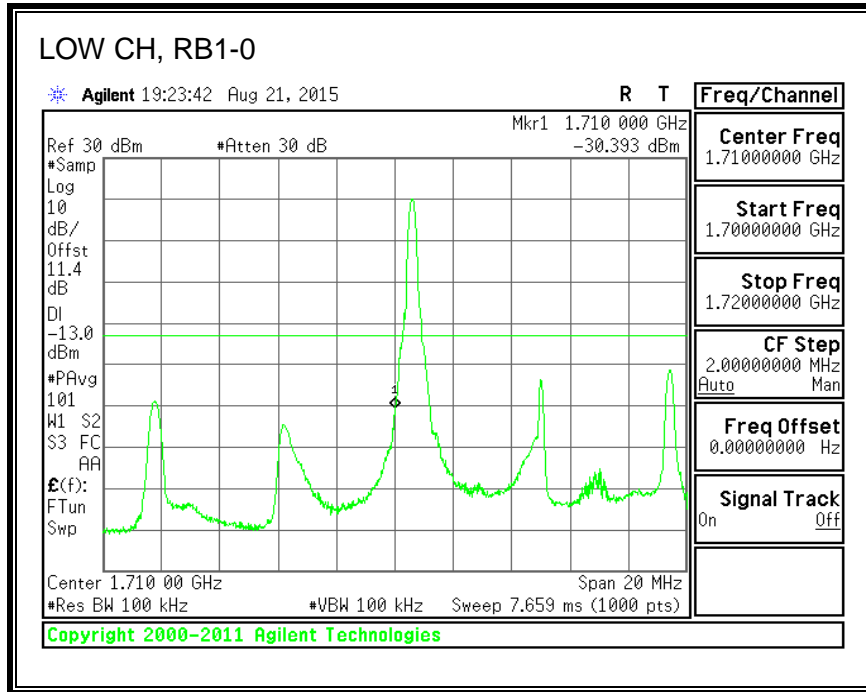


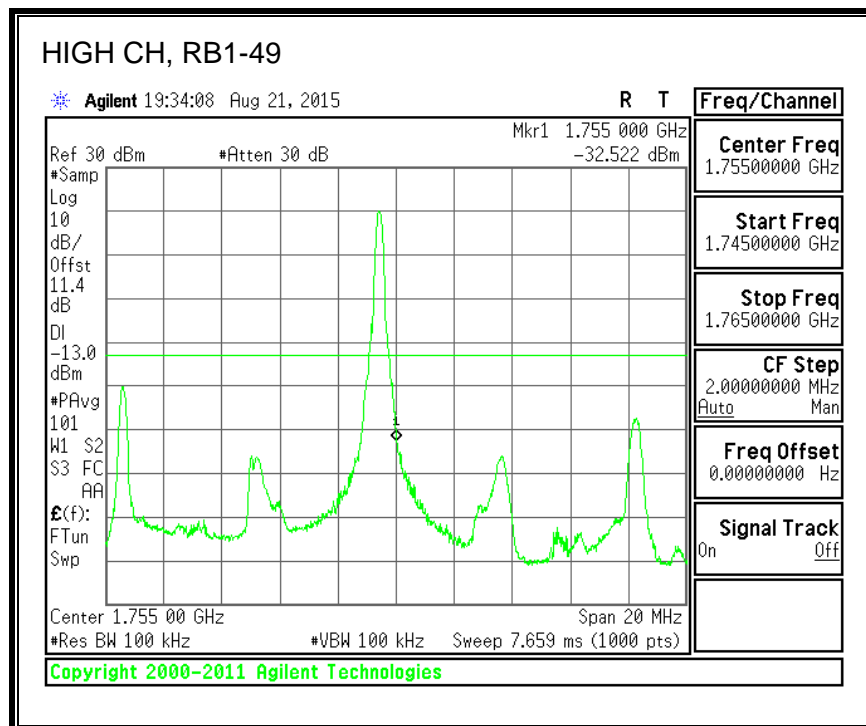
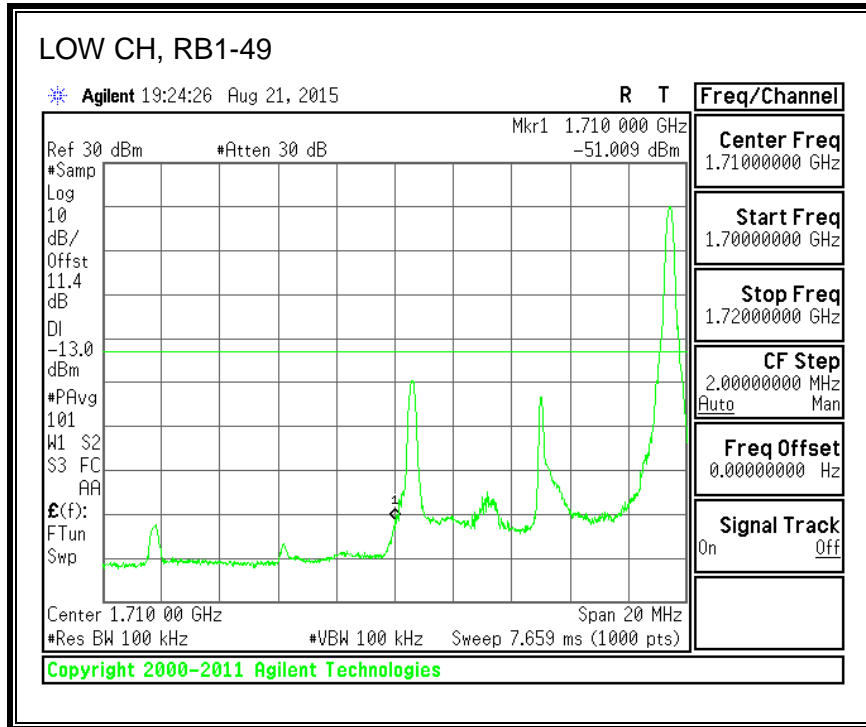


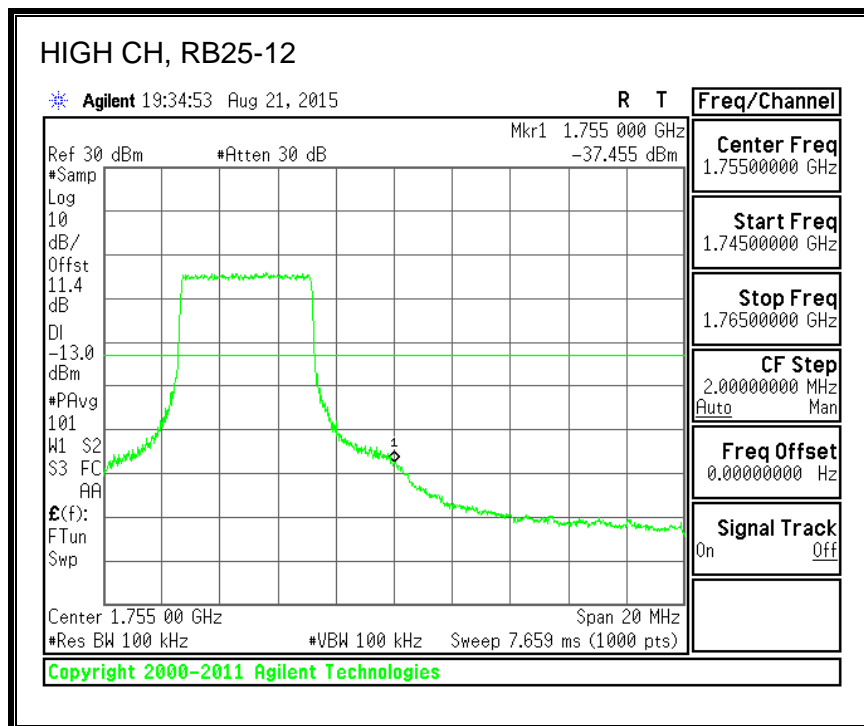
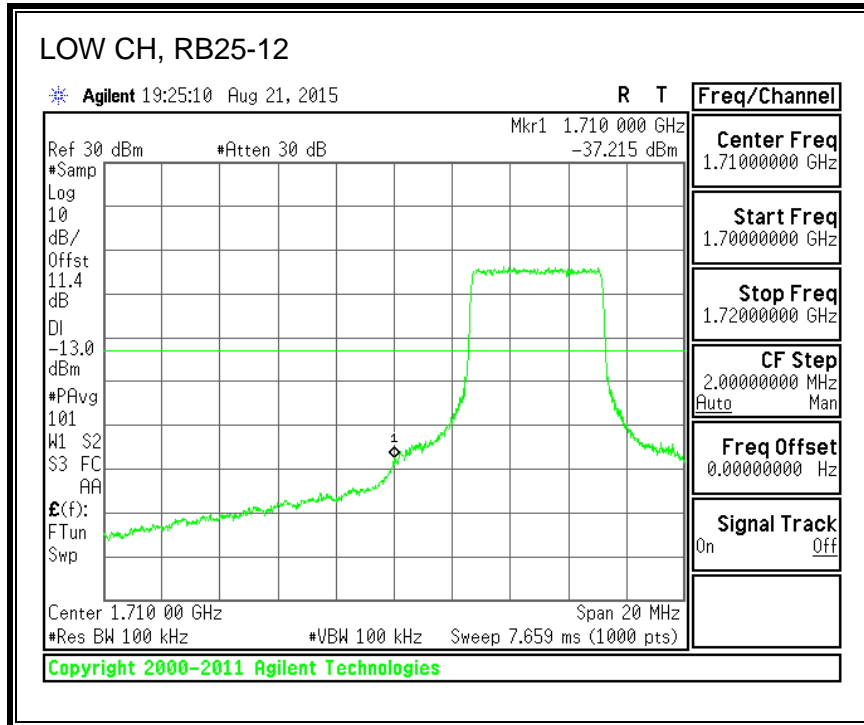


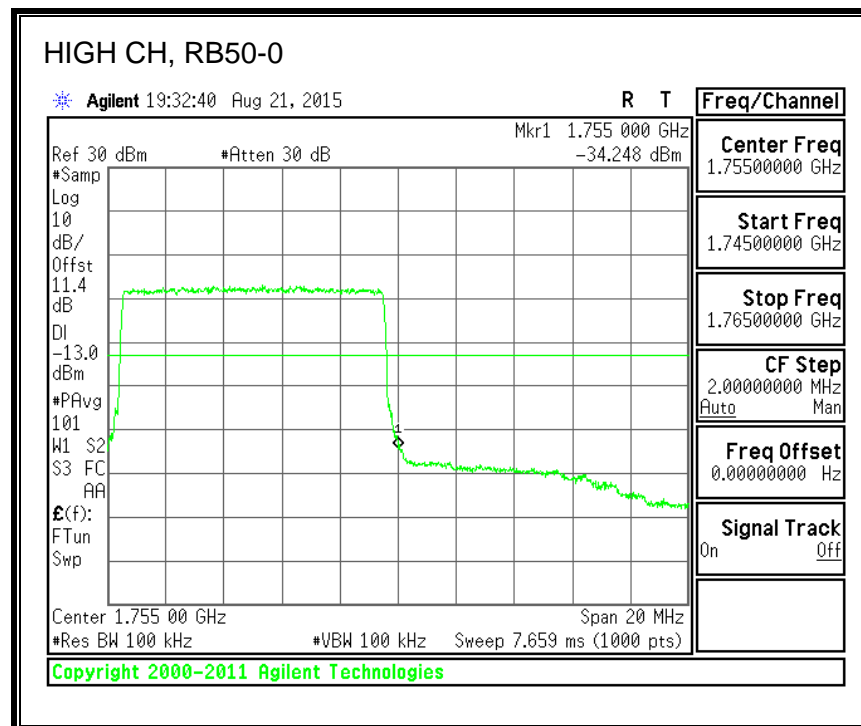
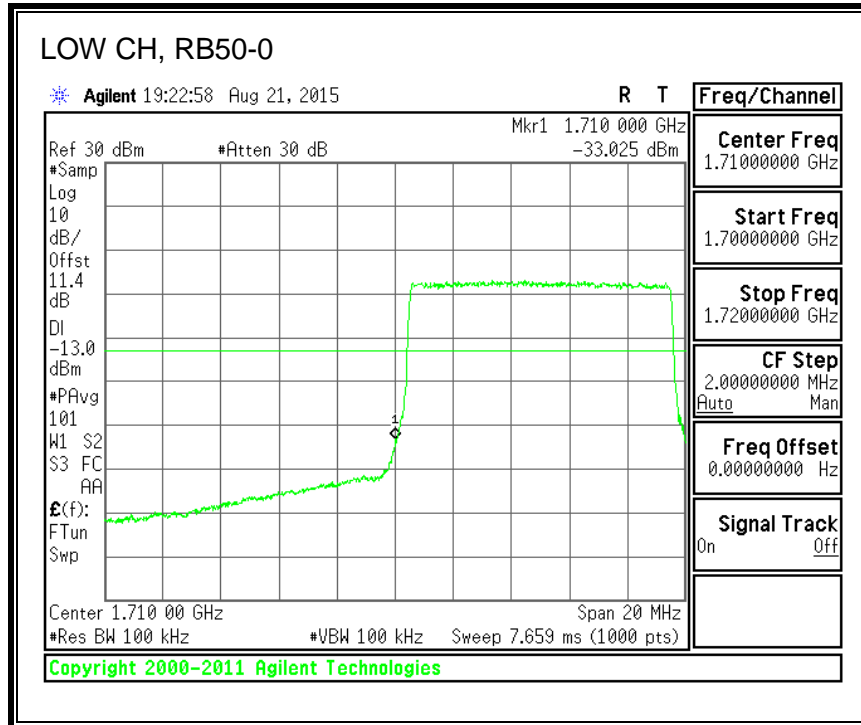


16QAM, (10.0 MHz BAND WIDTH)

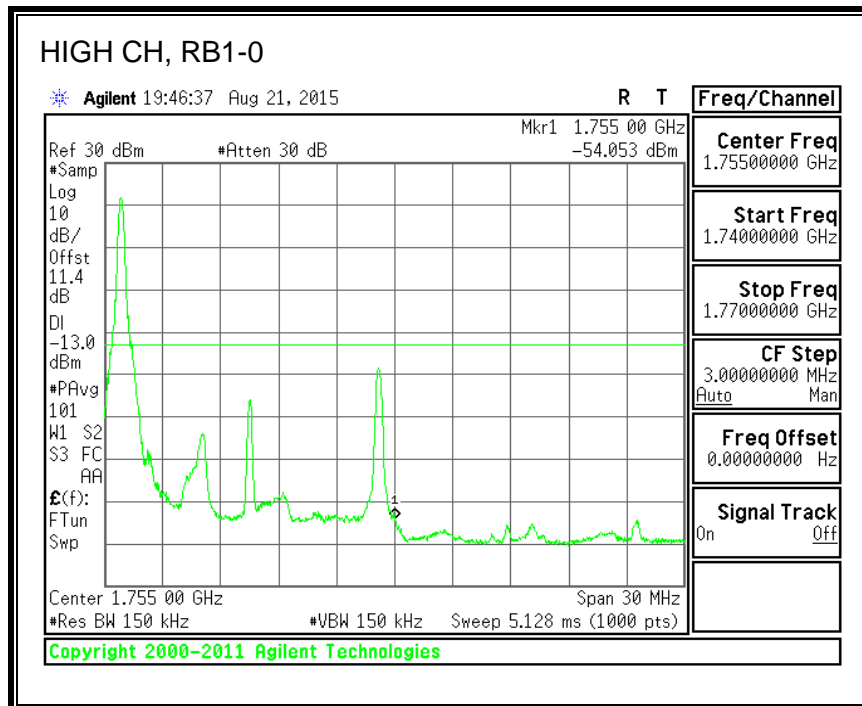
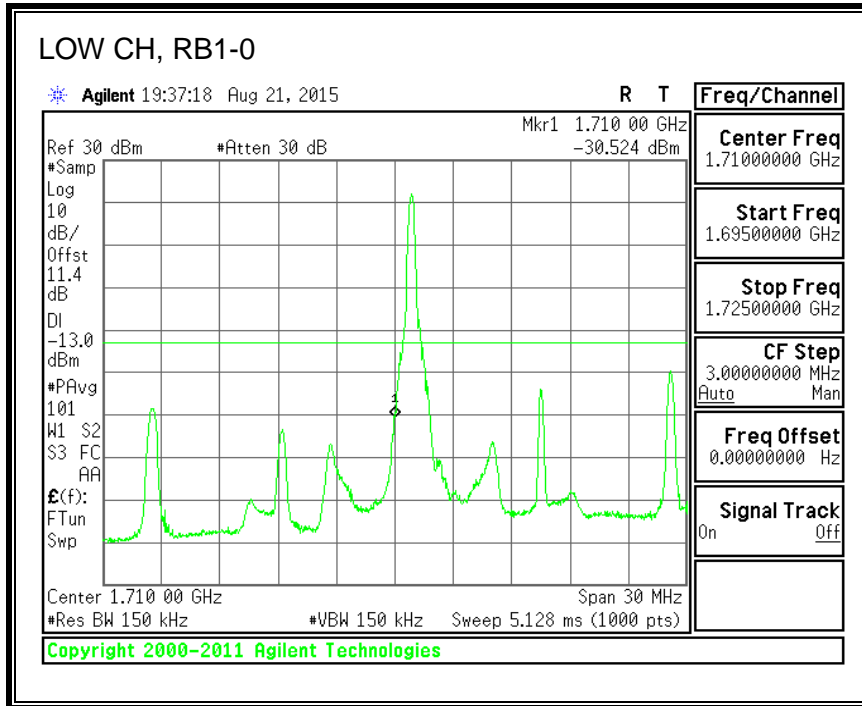


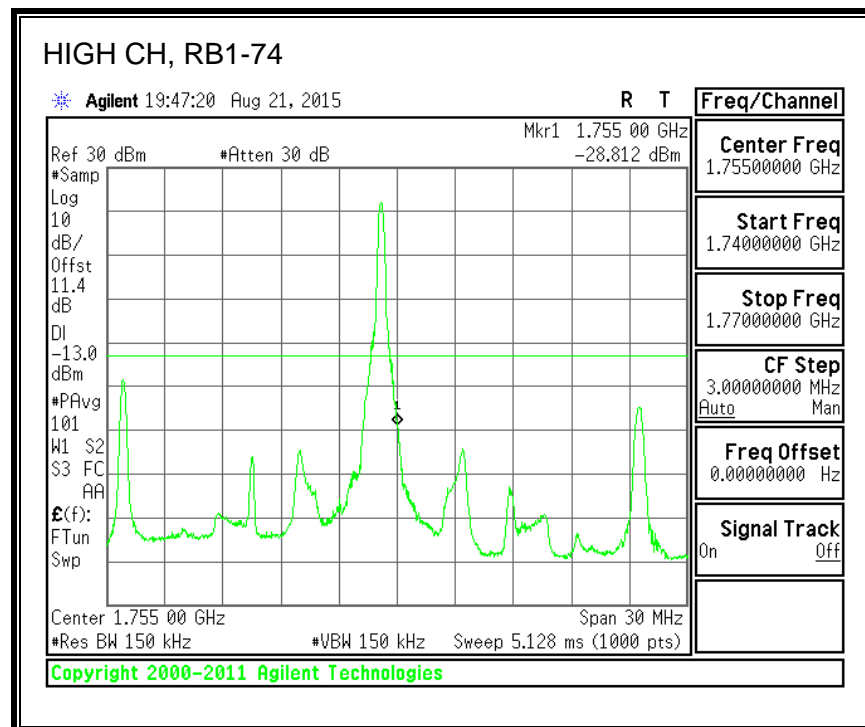
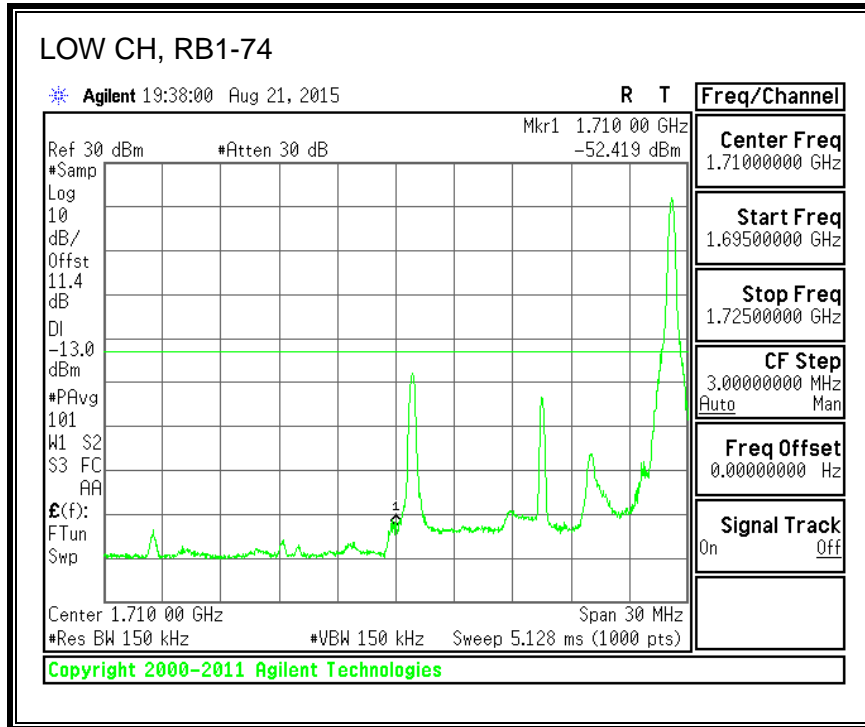


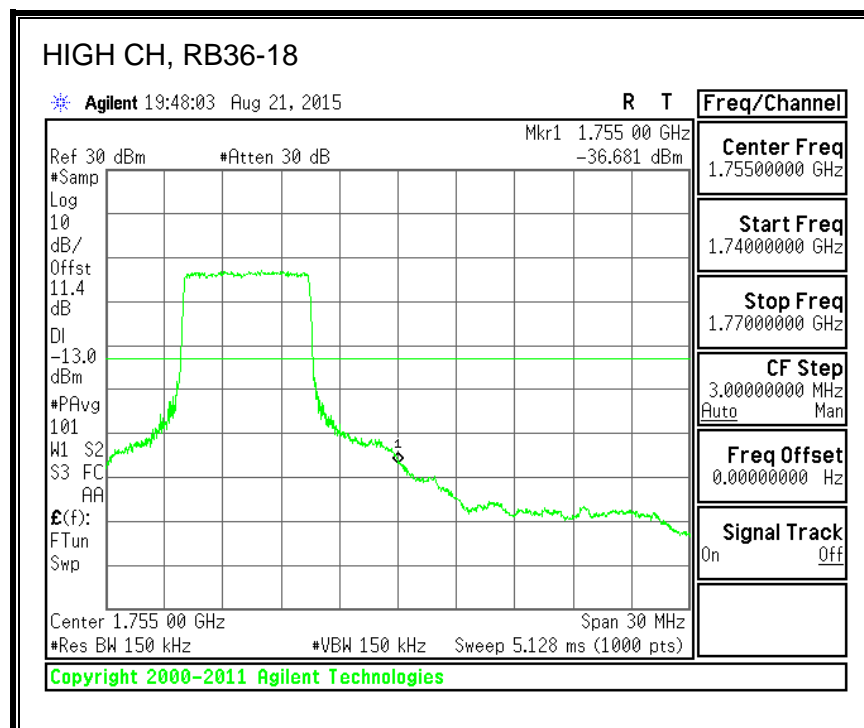
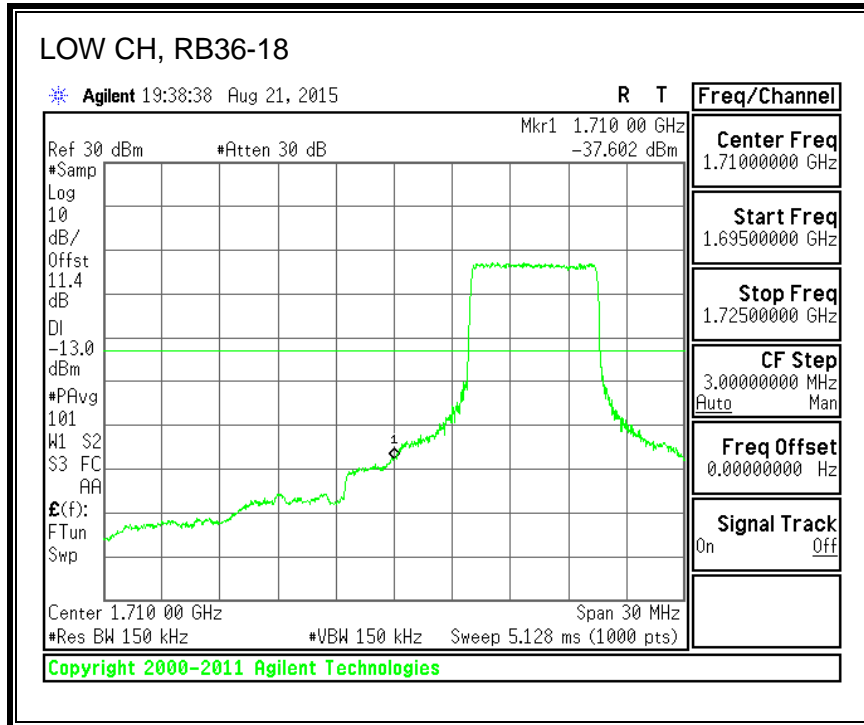




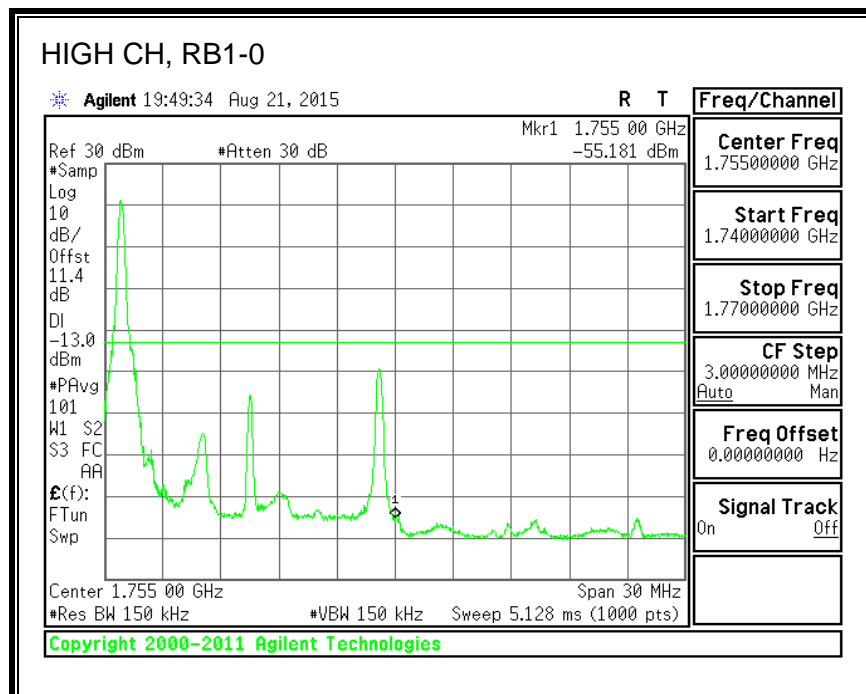
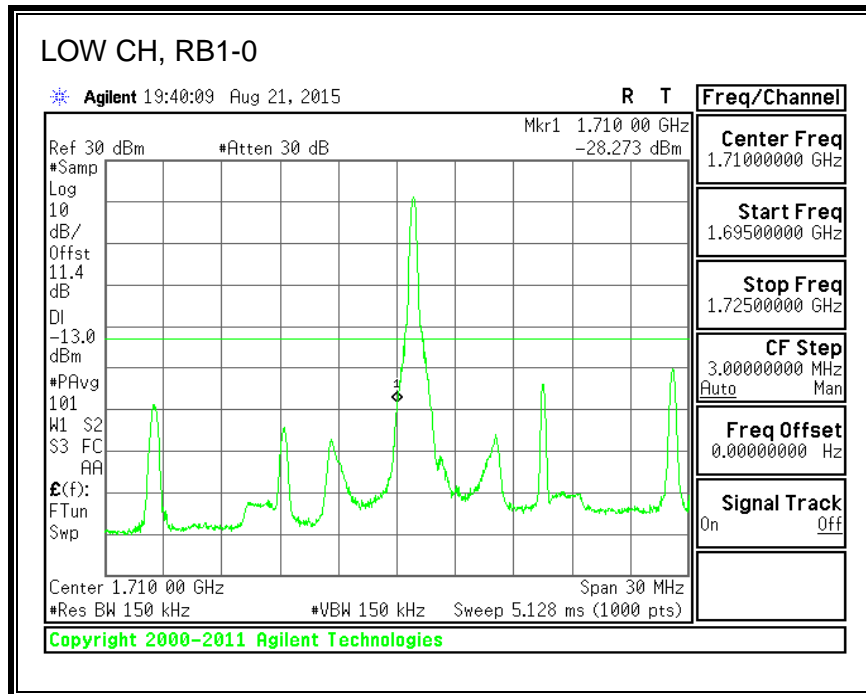
QPSK, (15.0 MHz BAND WIDTH)

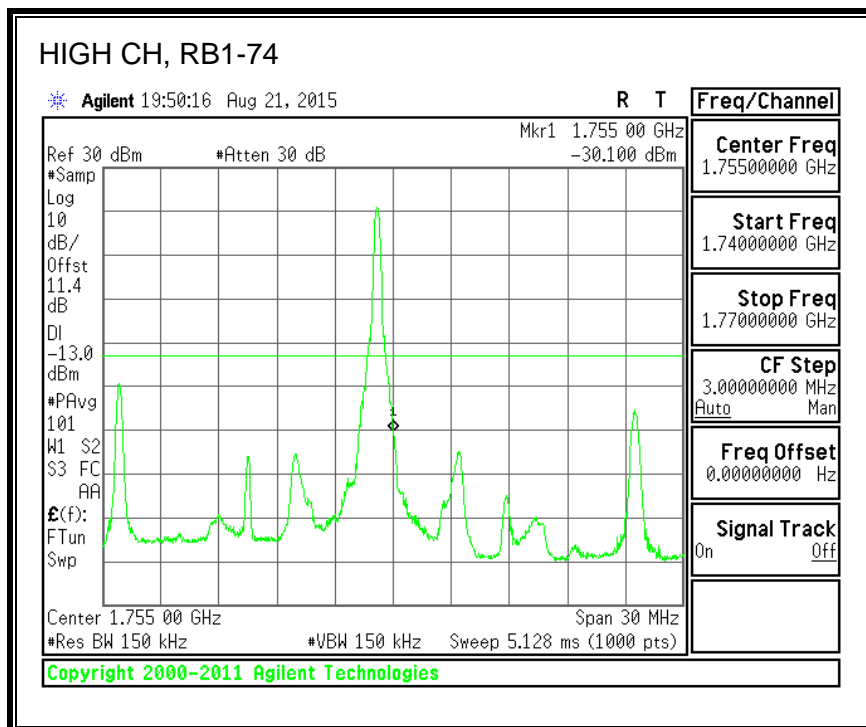
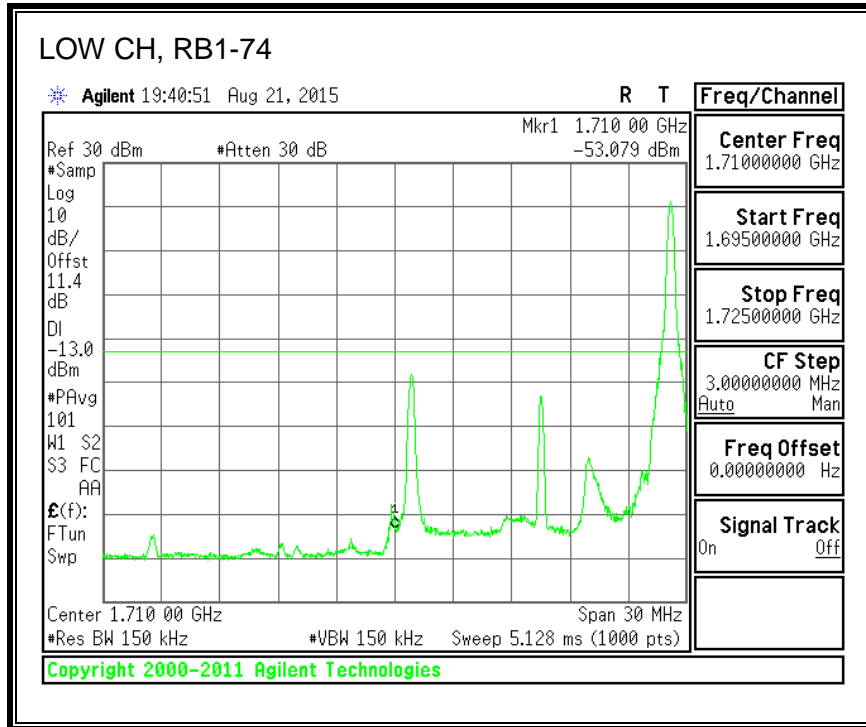


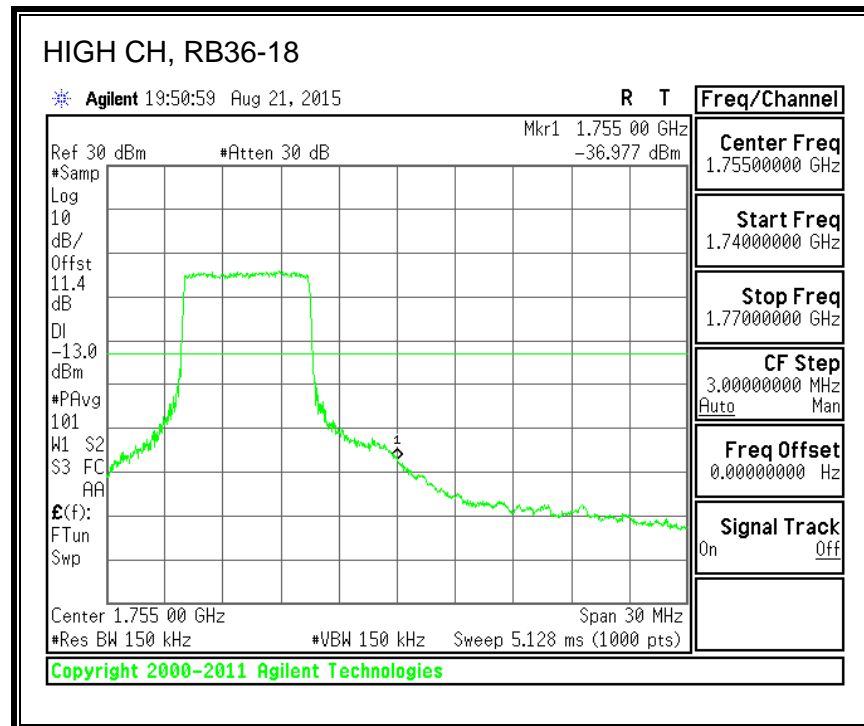
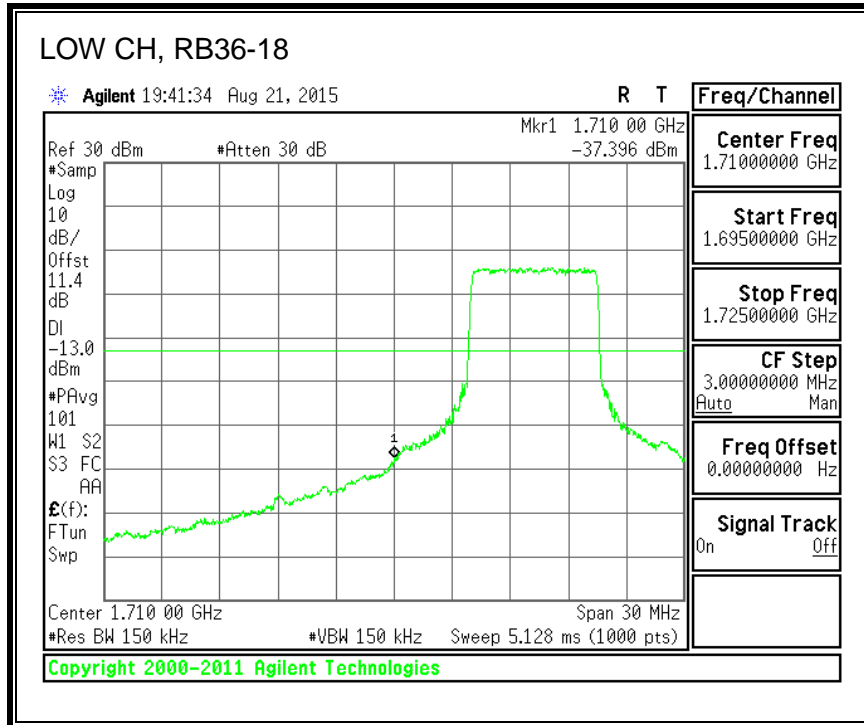


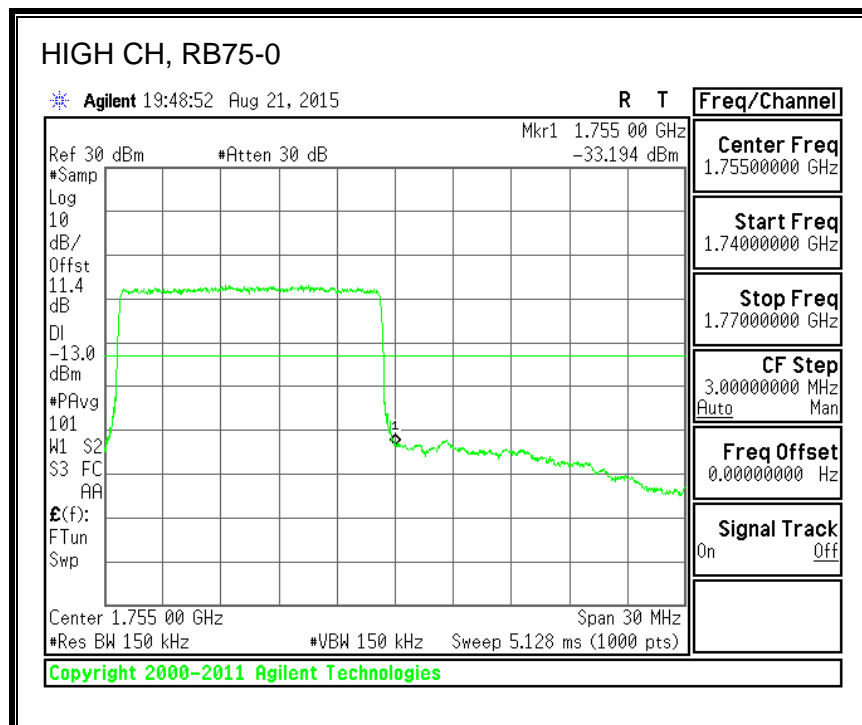
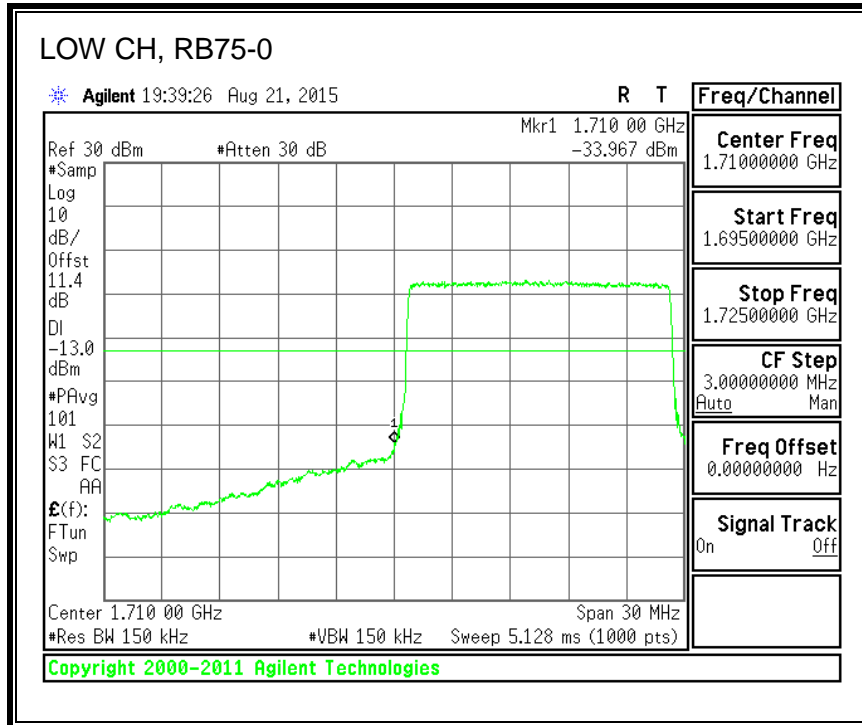


16QAM, (15.0 MHz BAND WIDTH)

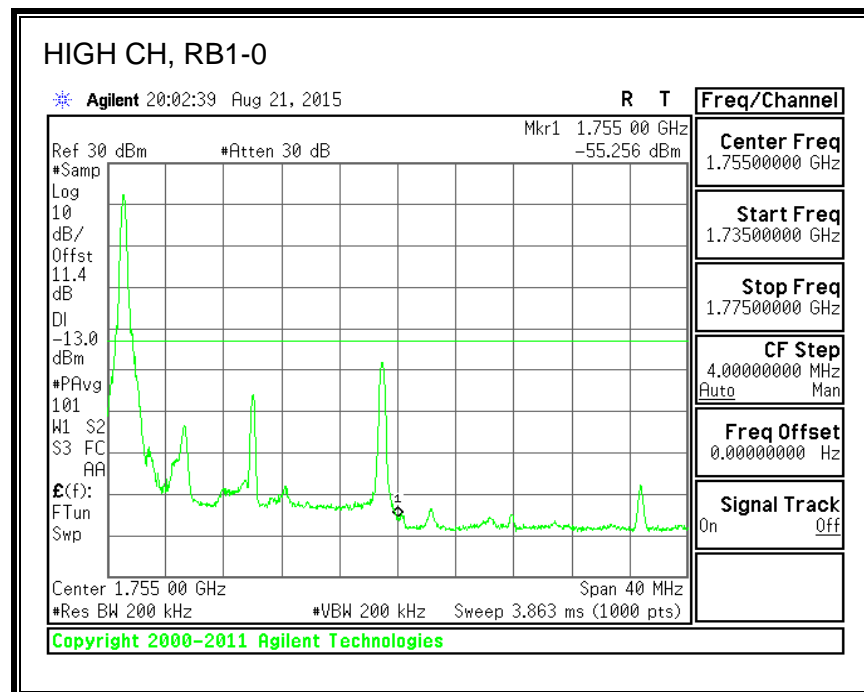
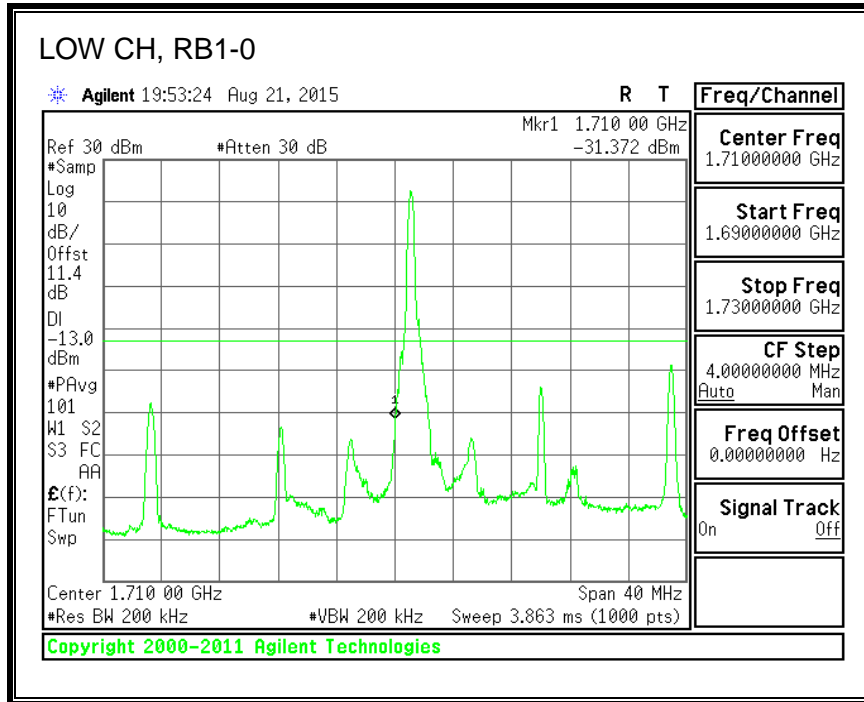


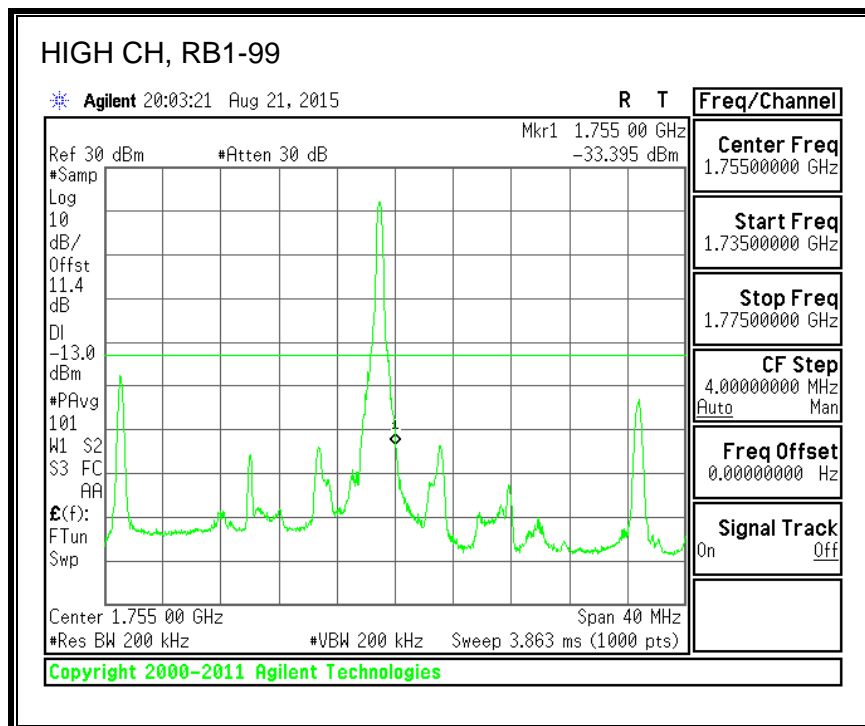
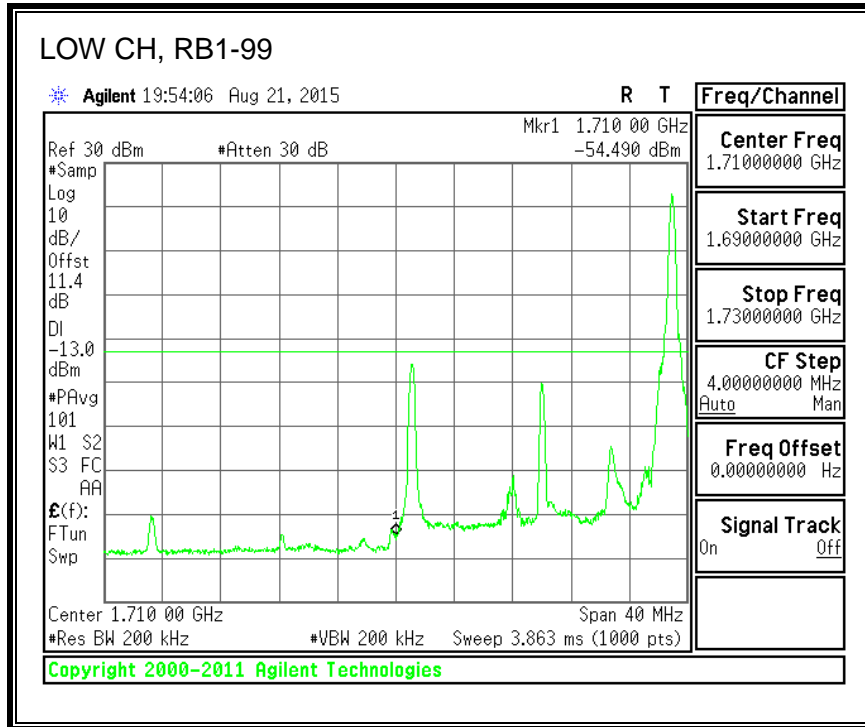


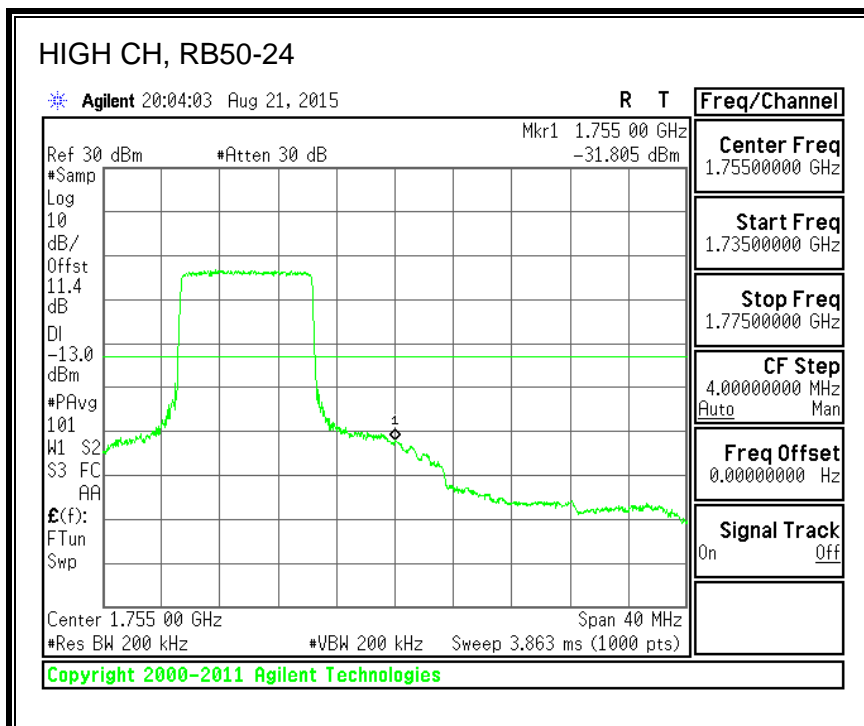
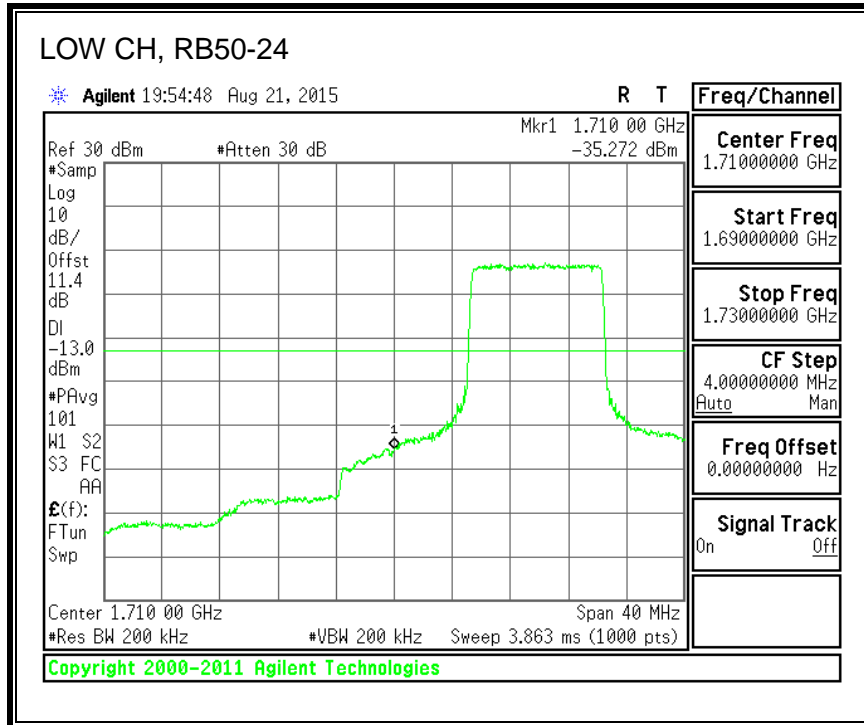


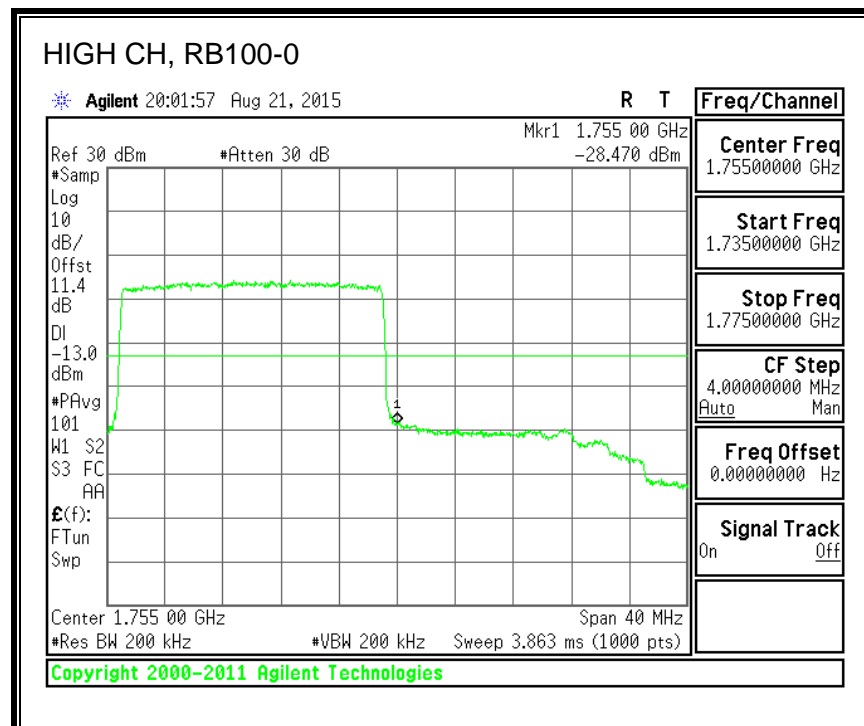
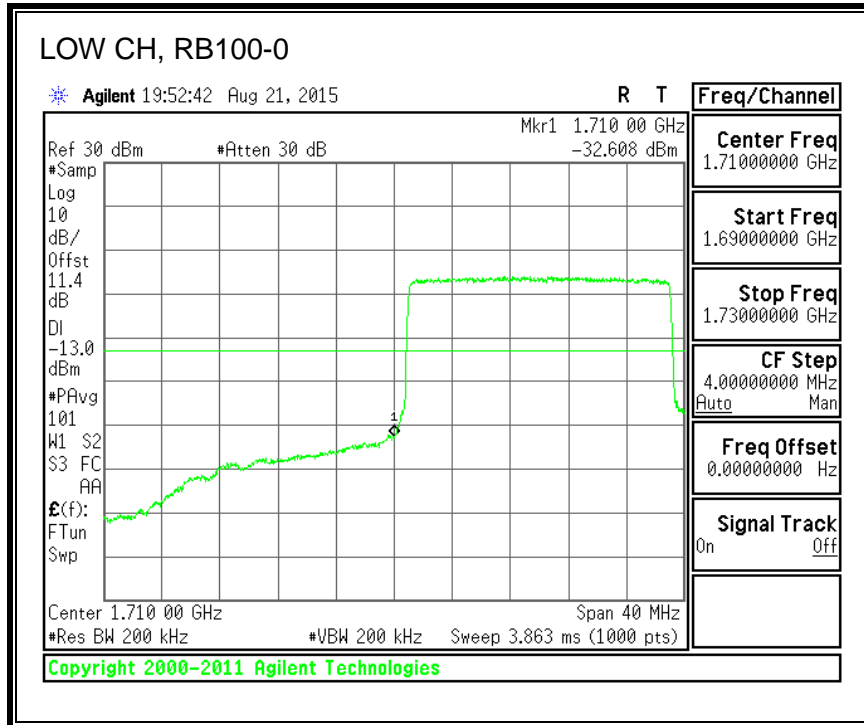


QPSK, (20.0 MHz BAND WIDTH)

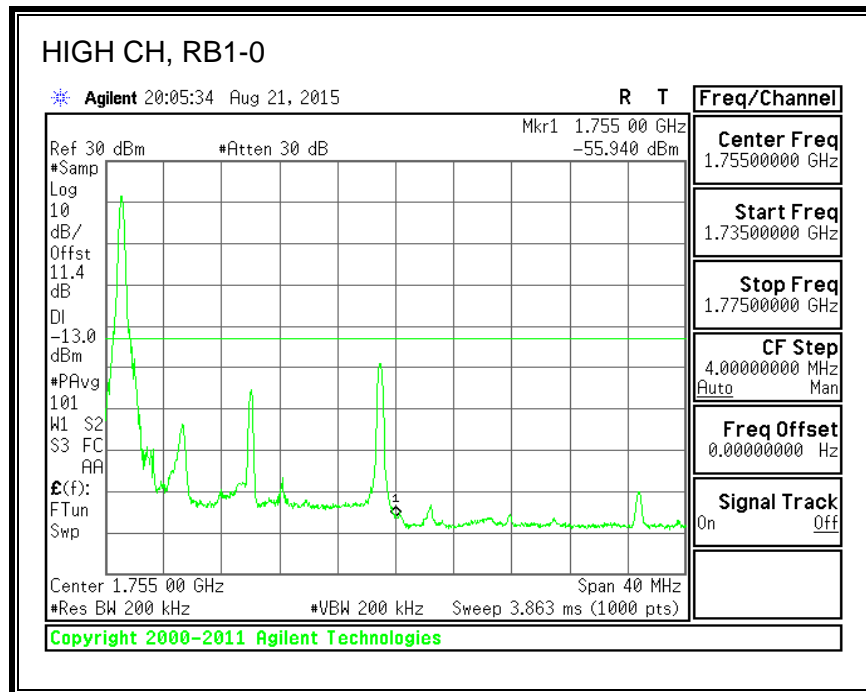
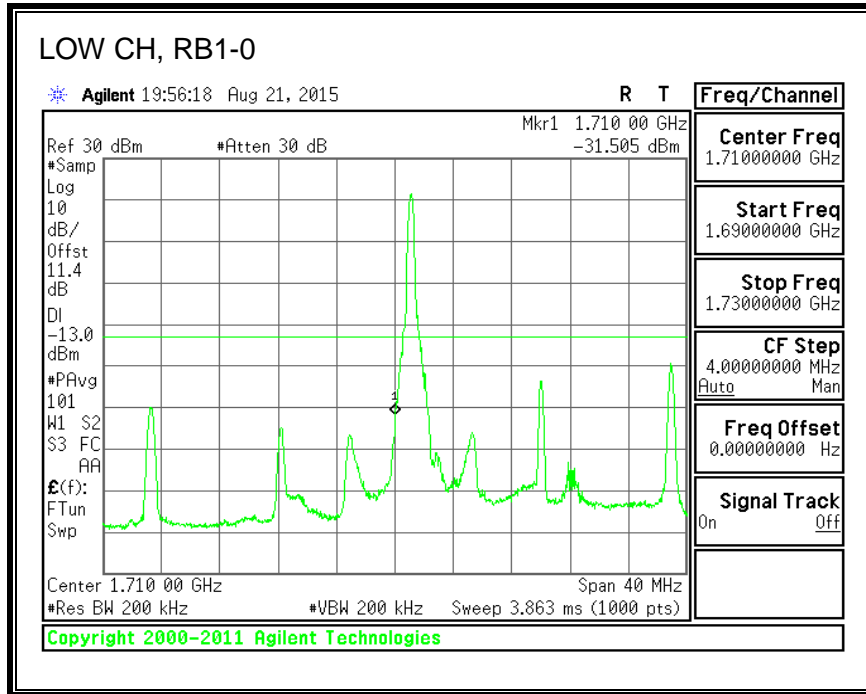


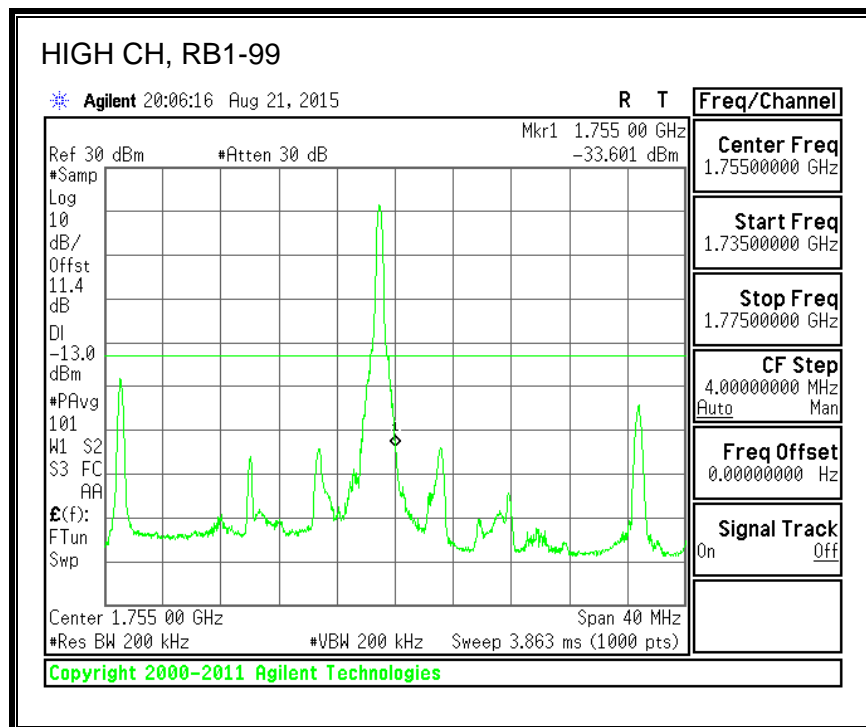
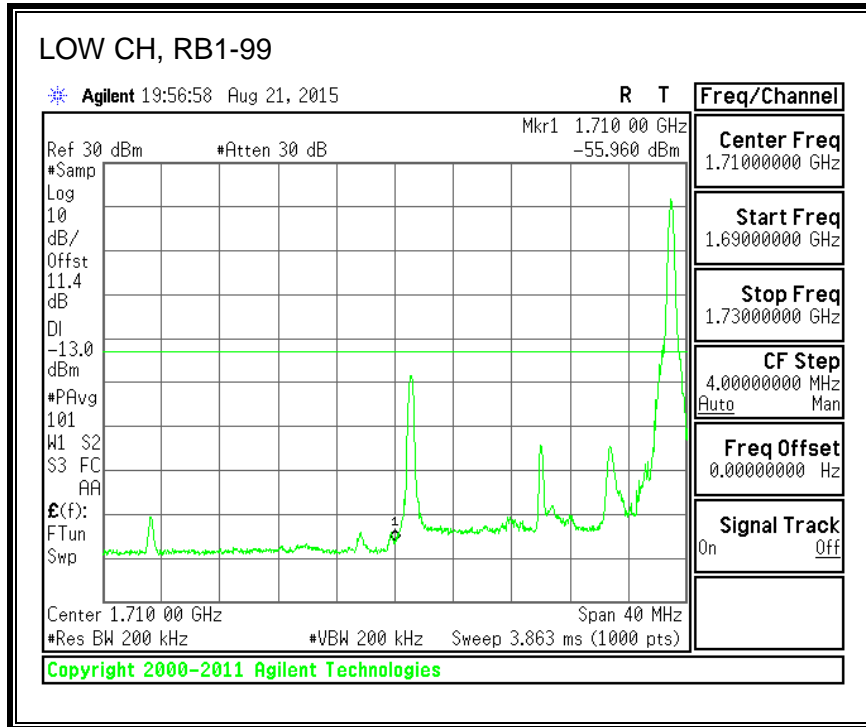


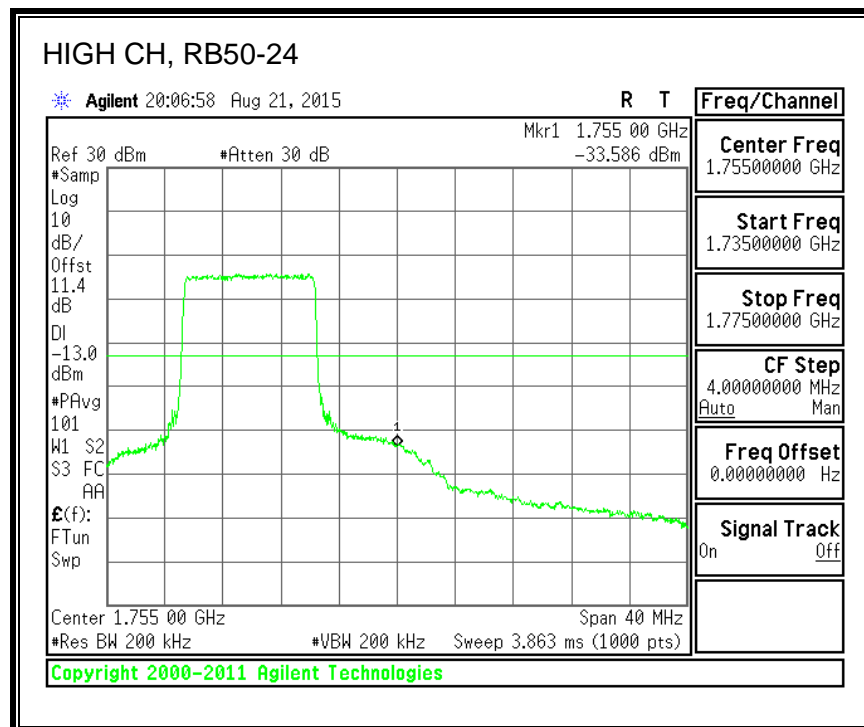
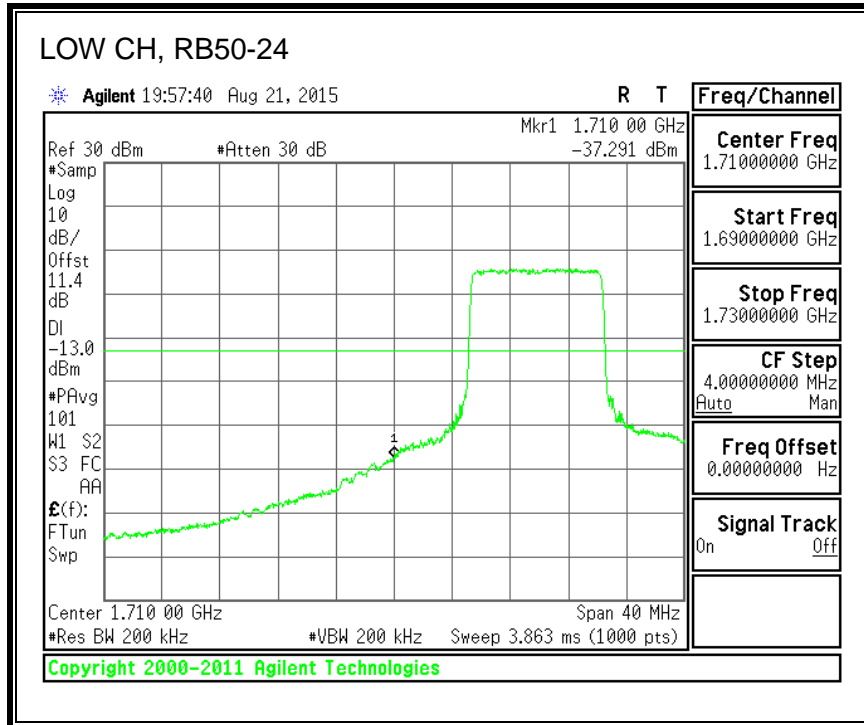


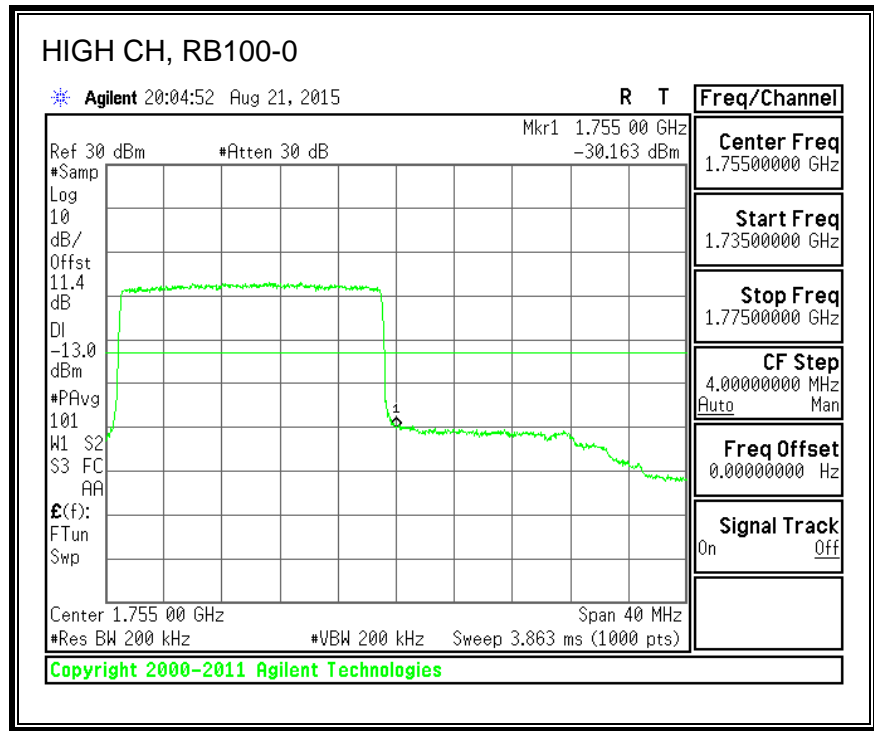
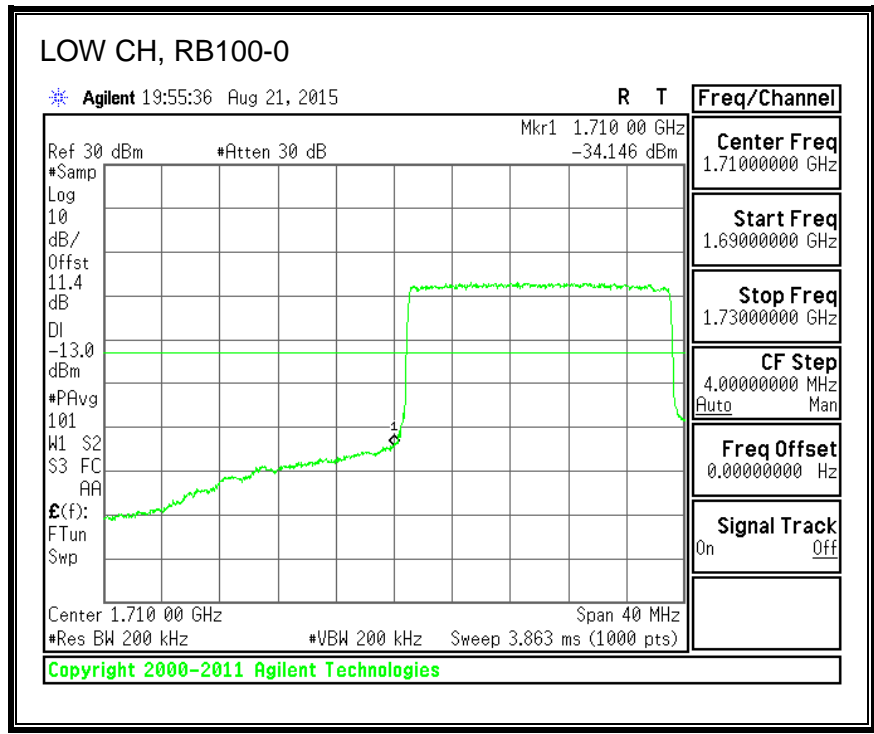


16QAM, (20.0 MHz BAND WIDTH)



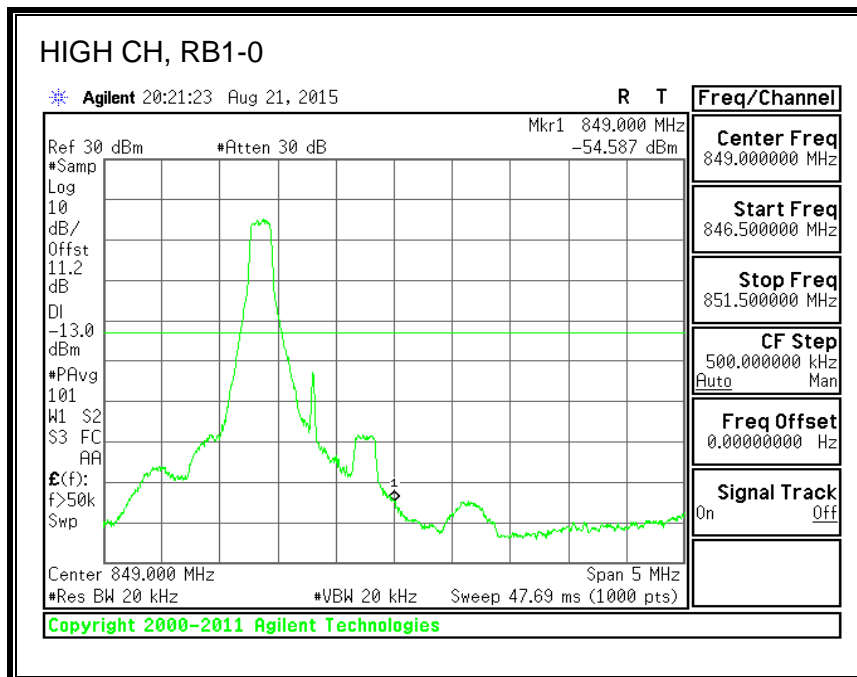
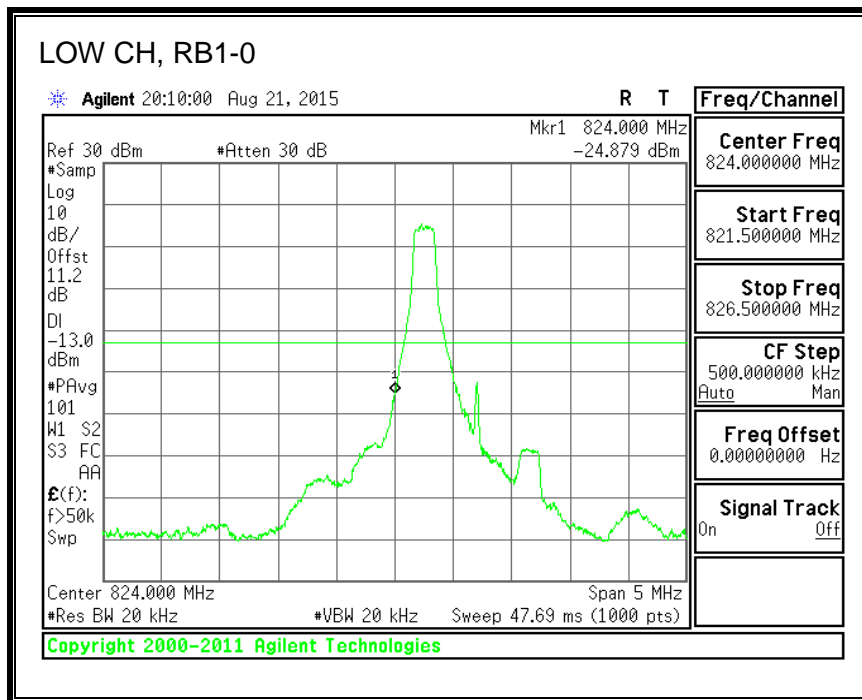


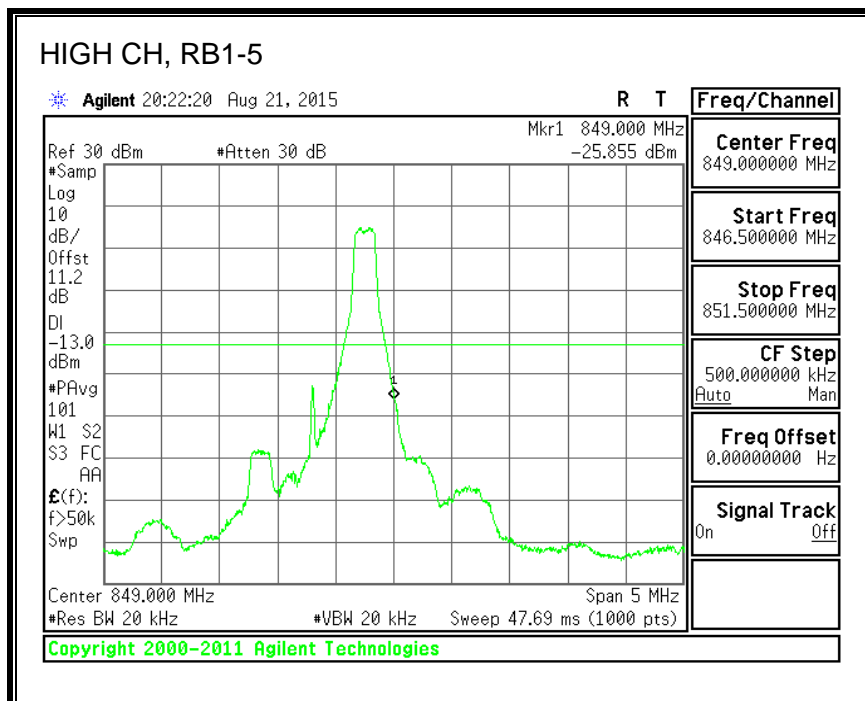
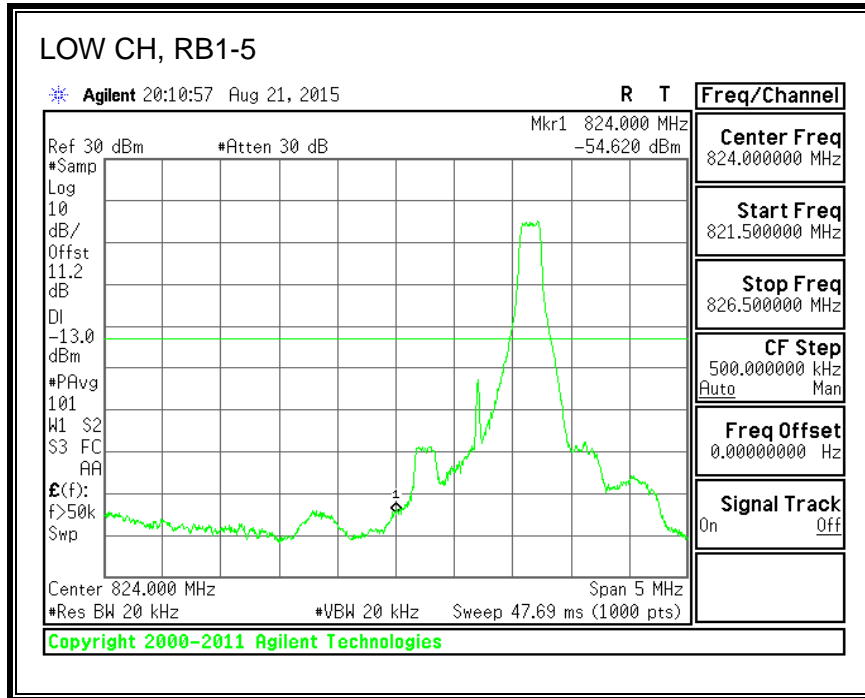


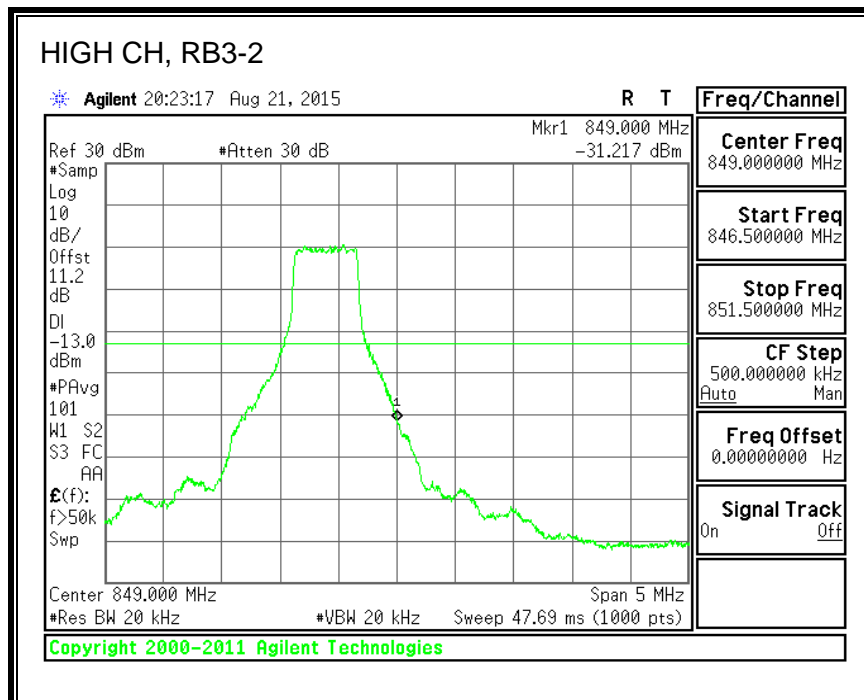
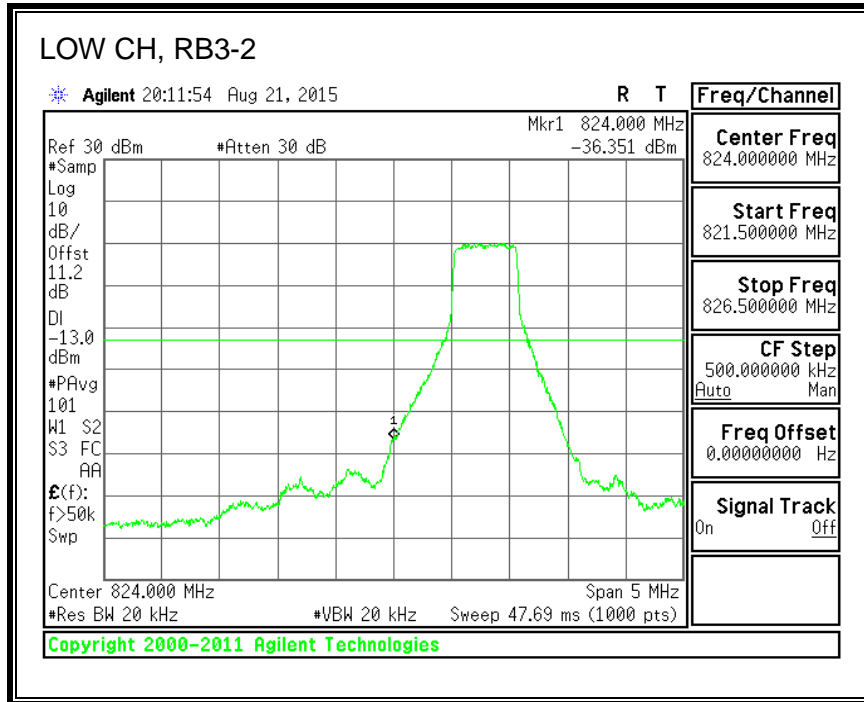


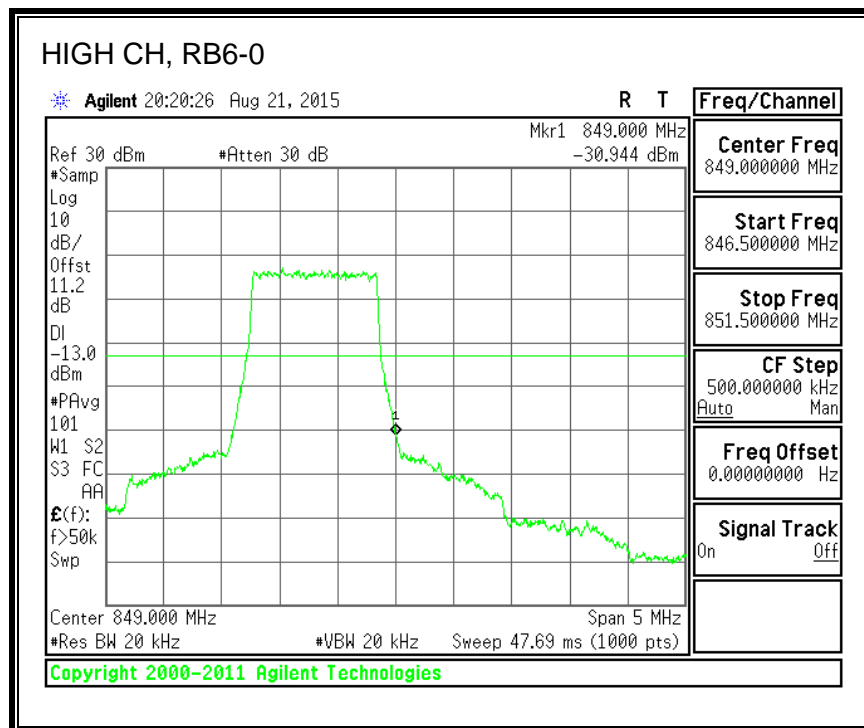
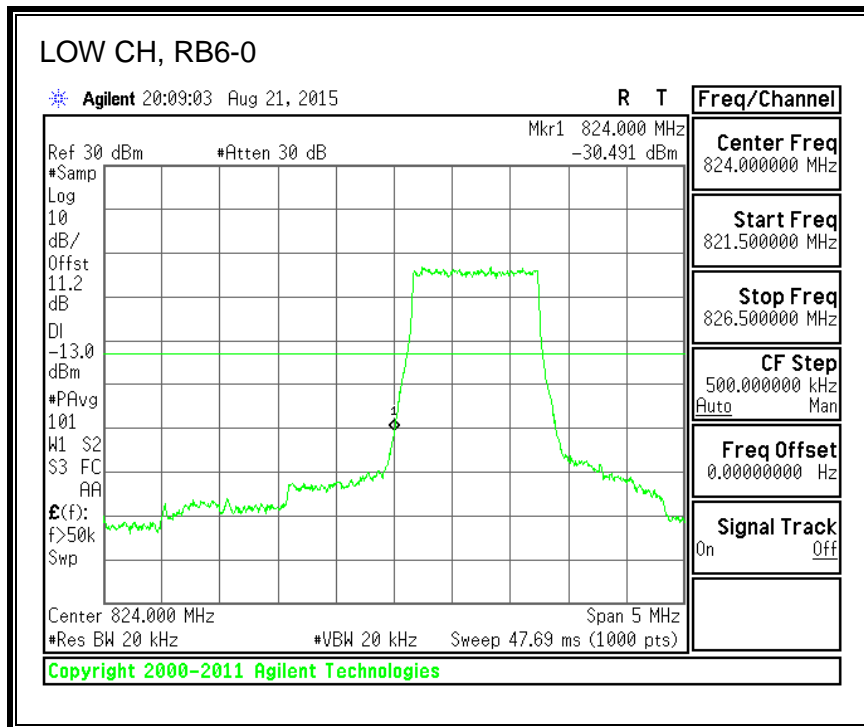
8.2.3. LTE BAND 5 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

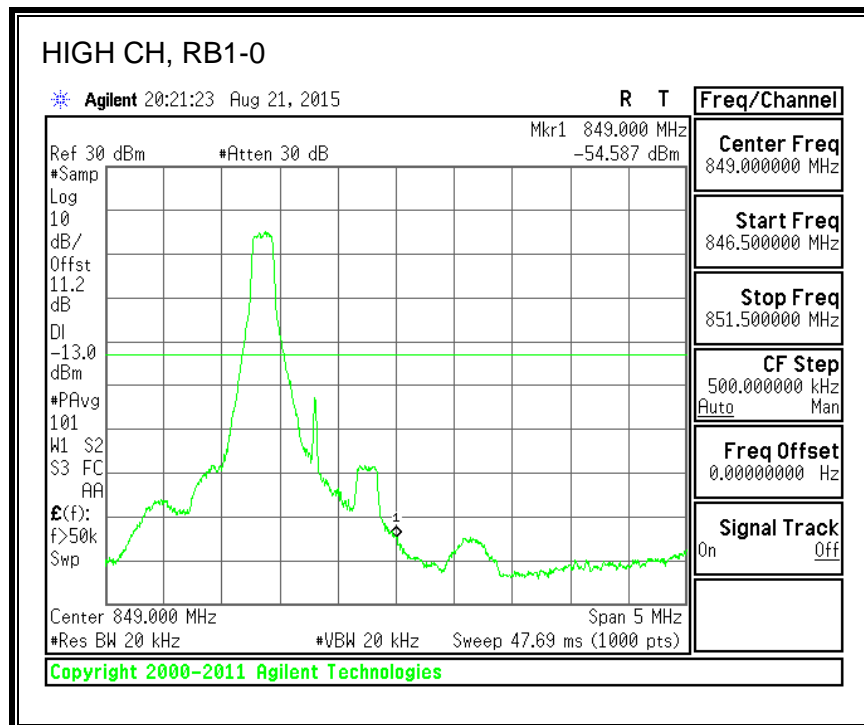
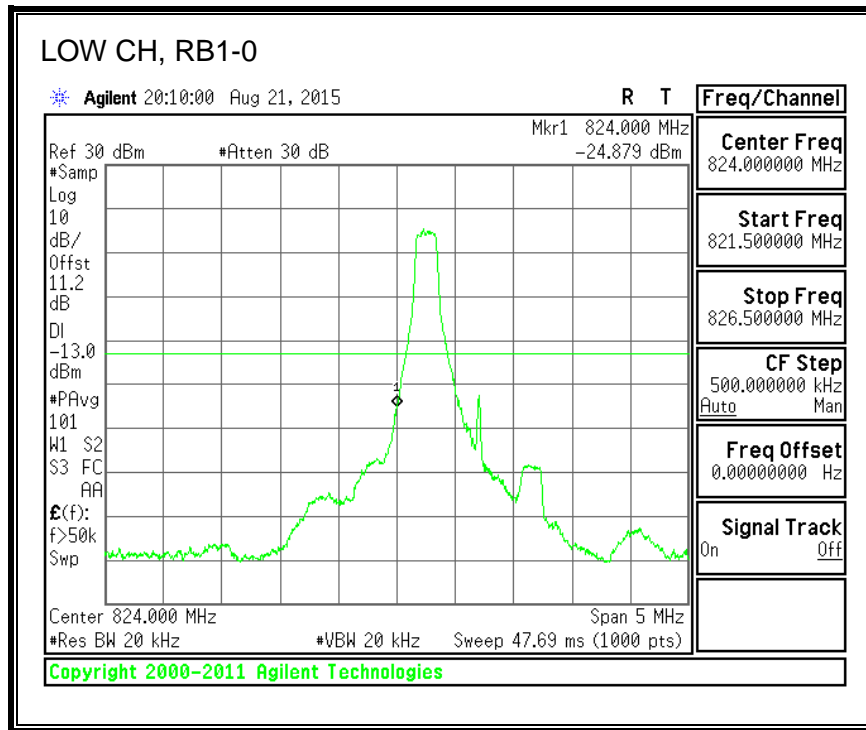


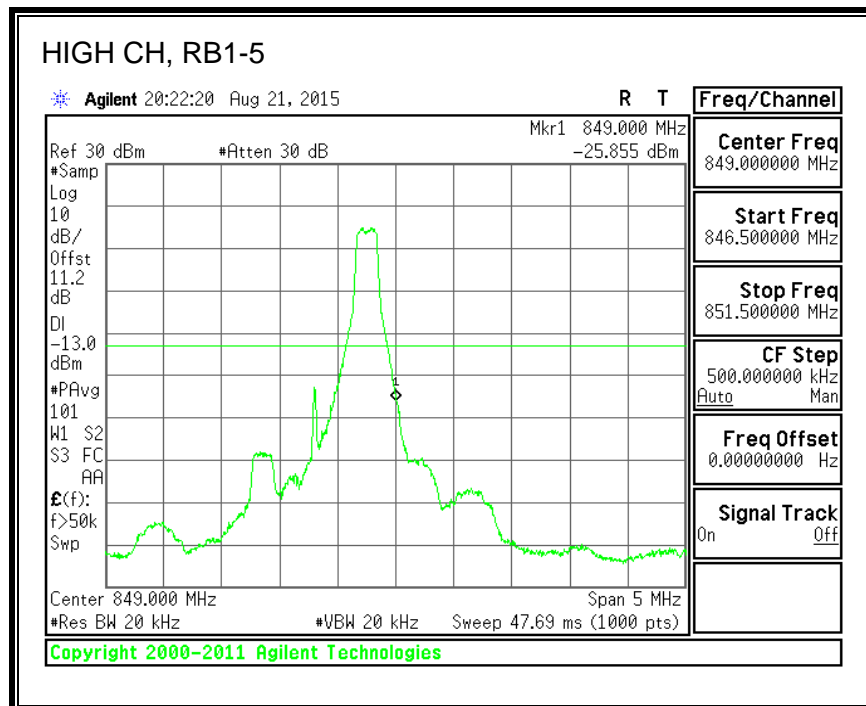
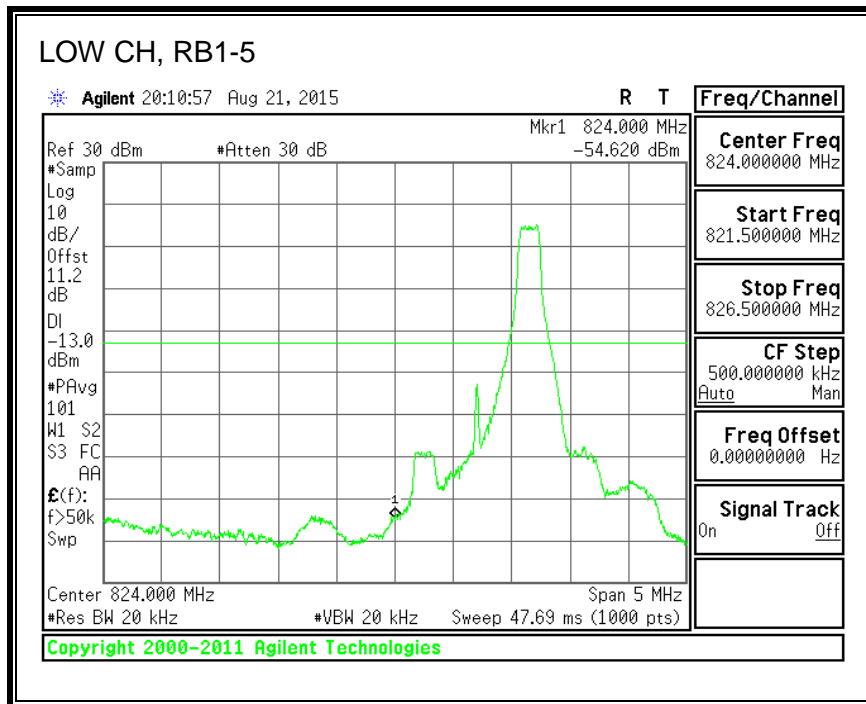


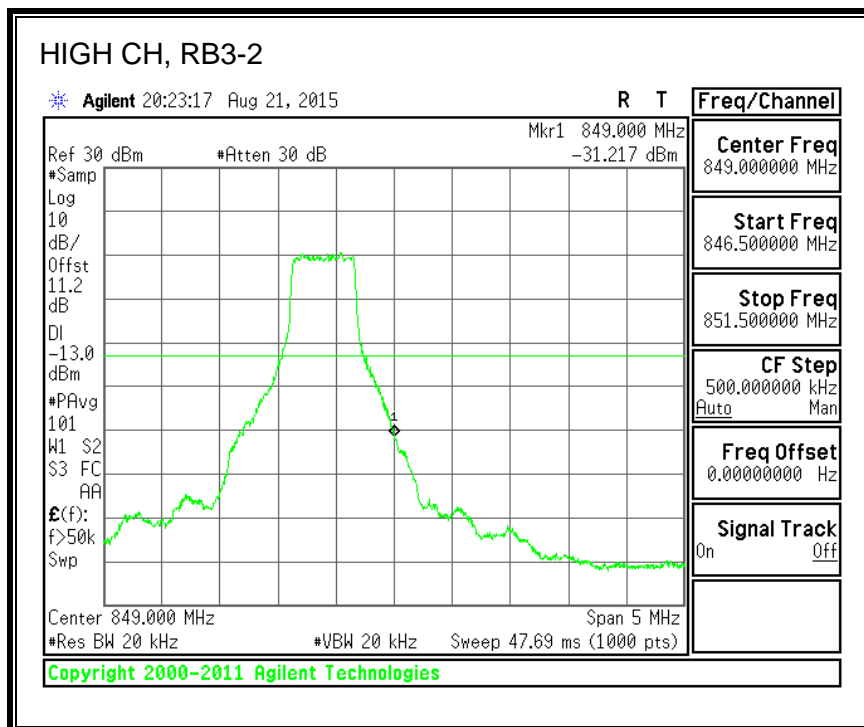
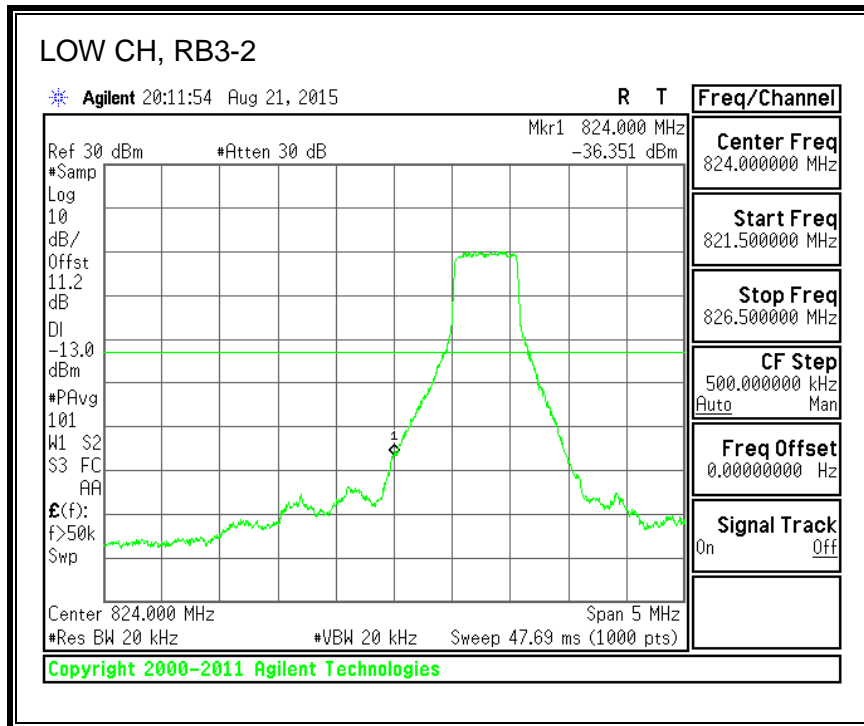


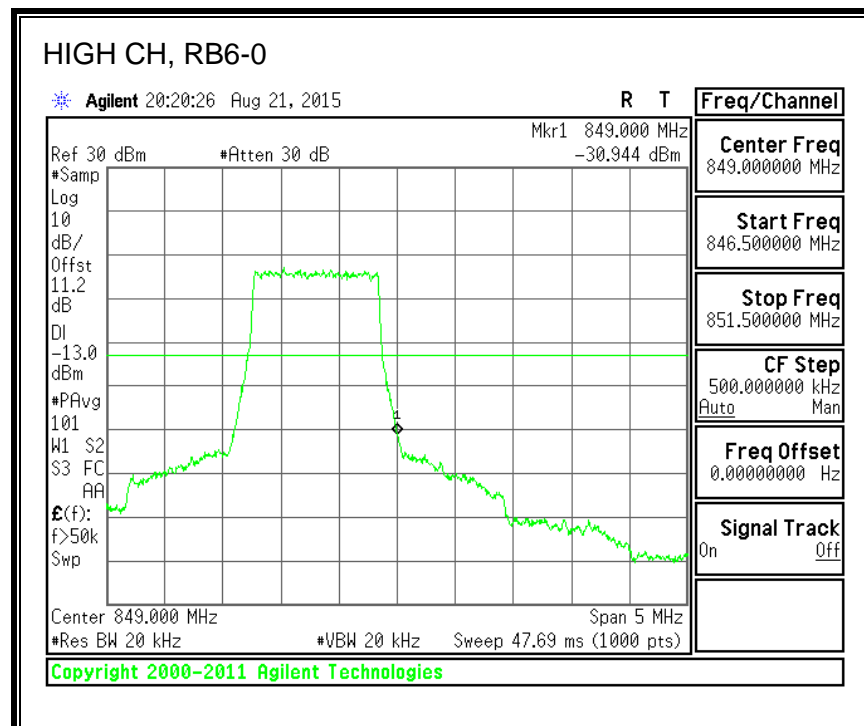
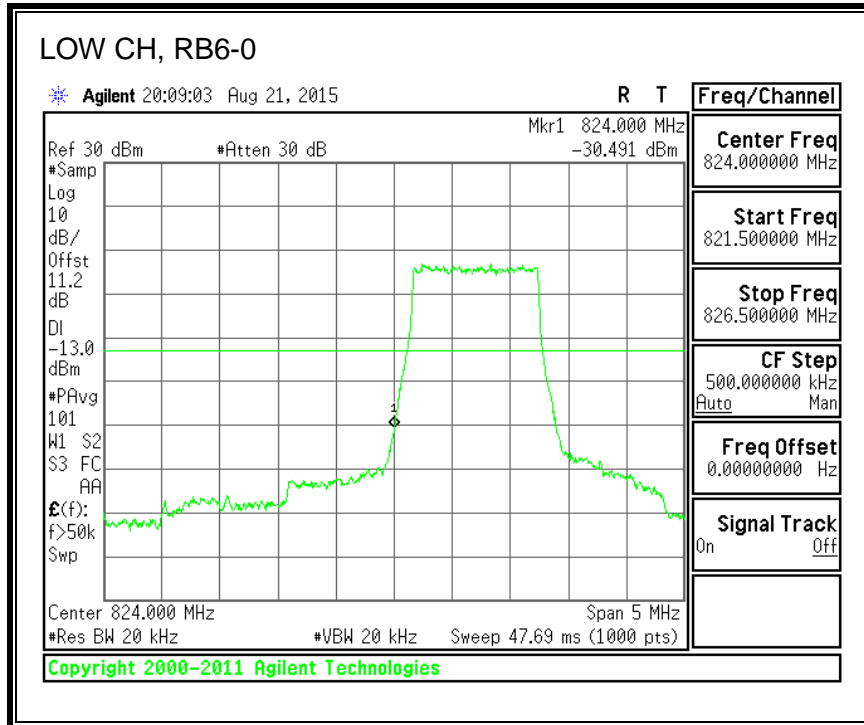


16QAM, (1.4 MHz BAND WIDTH)

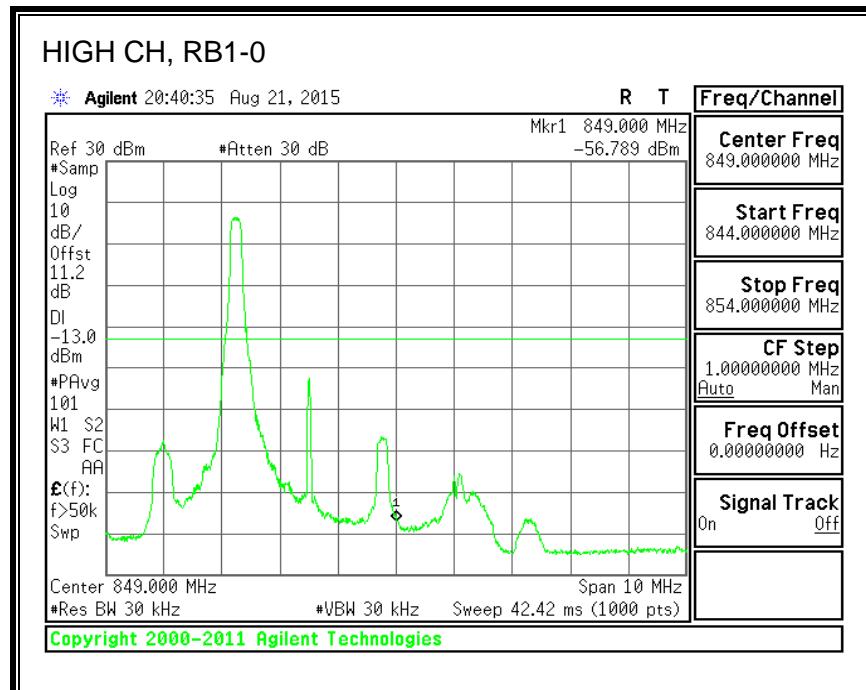
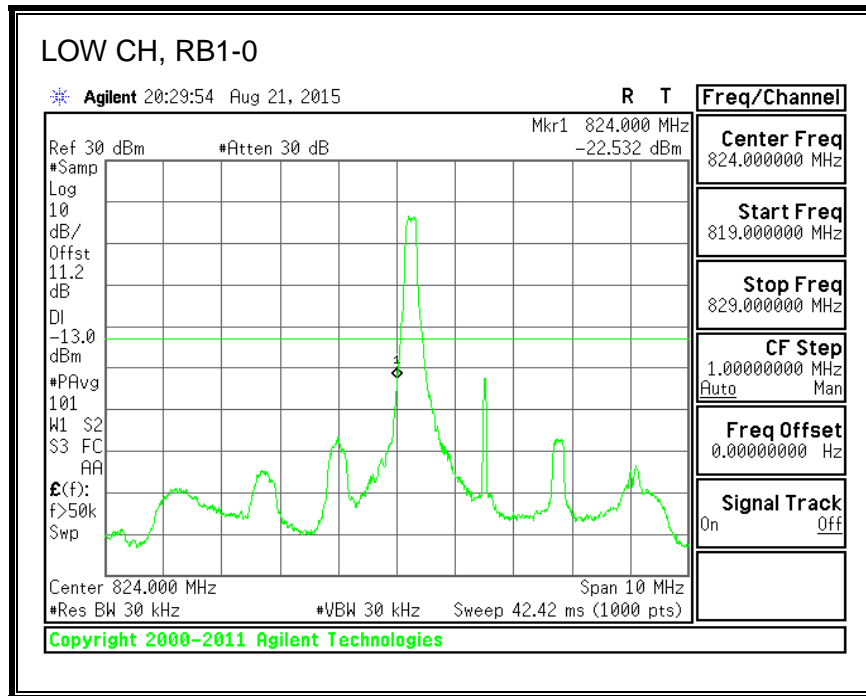


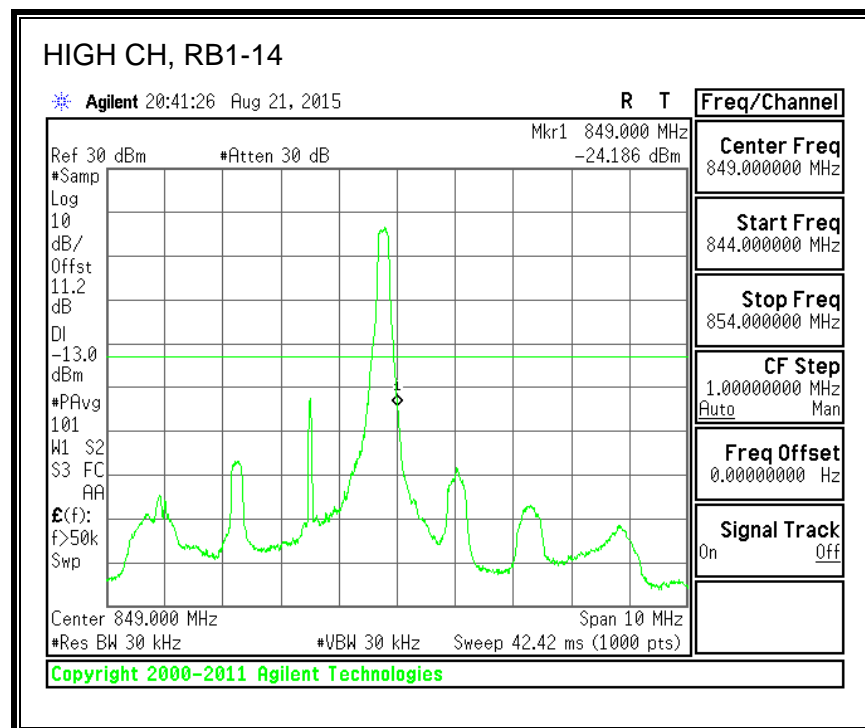
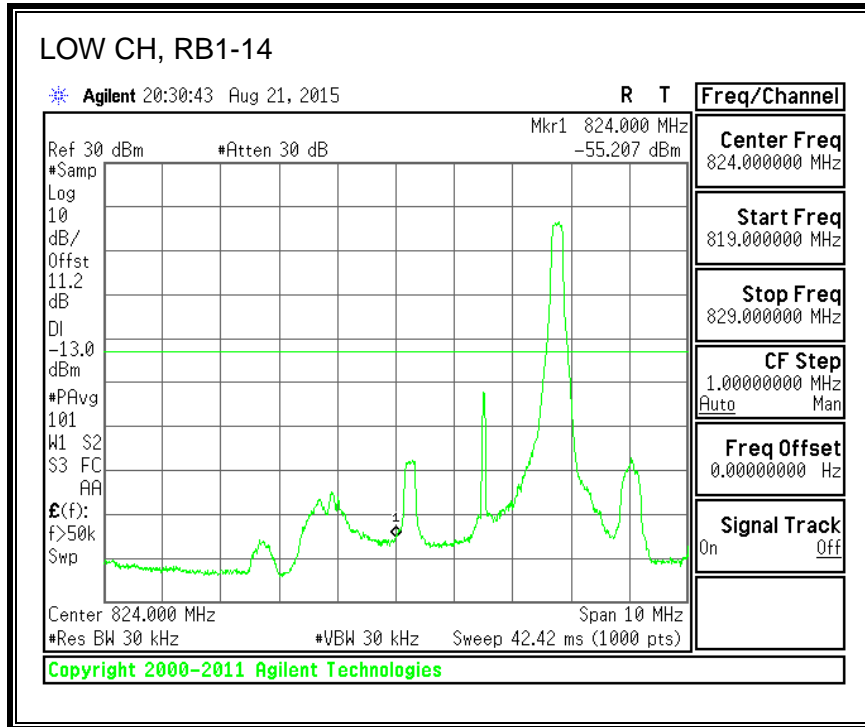


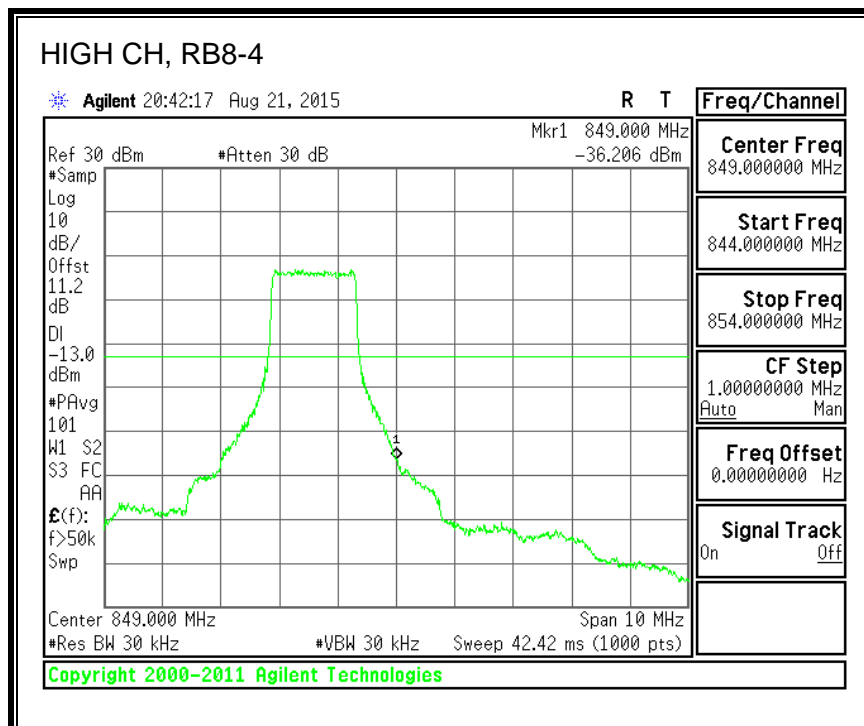
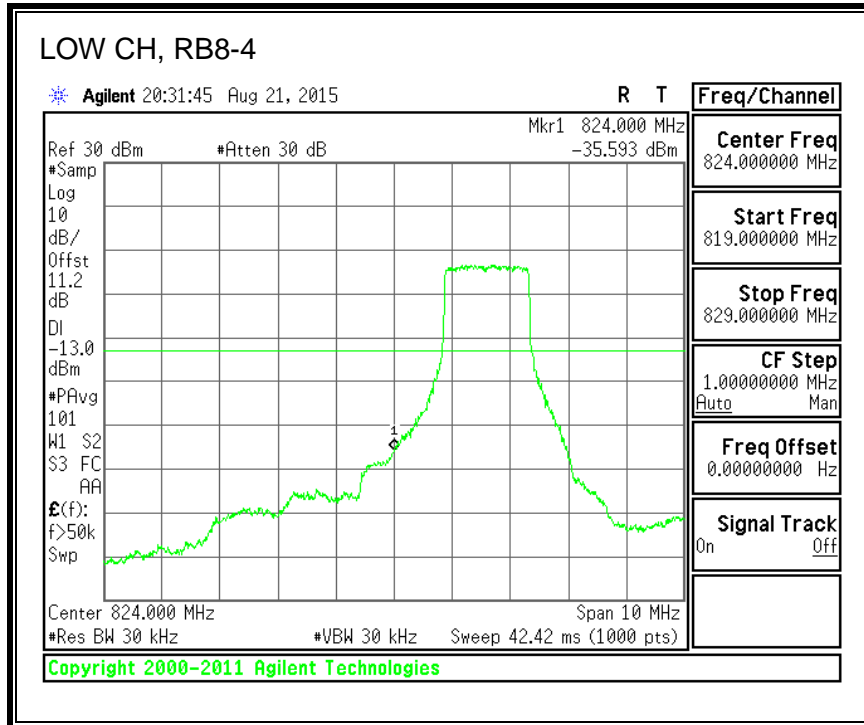


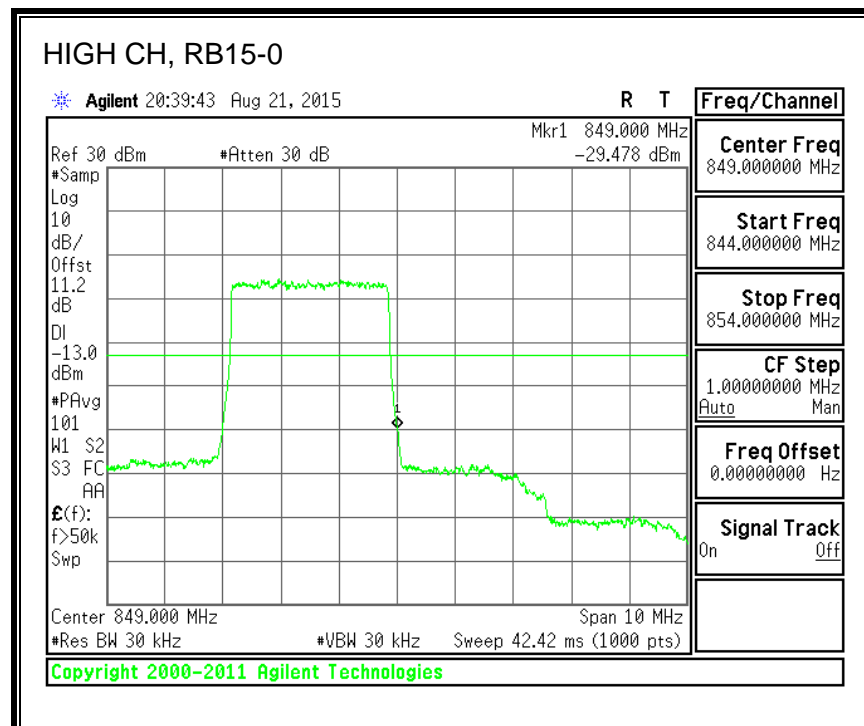
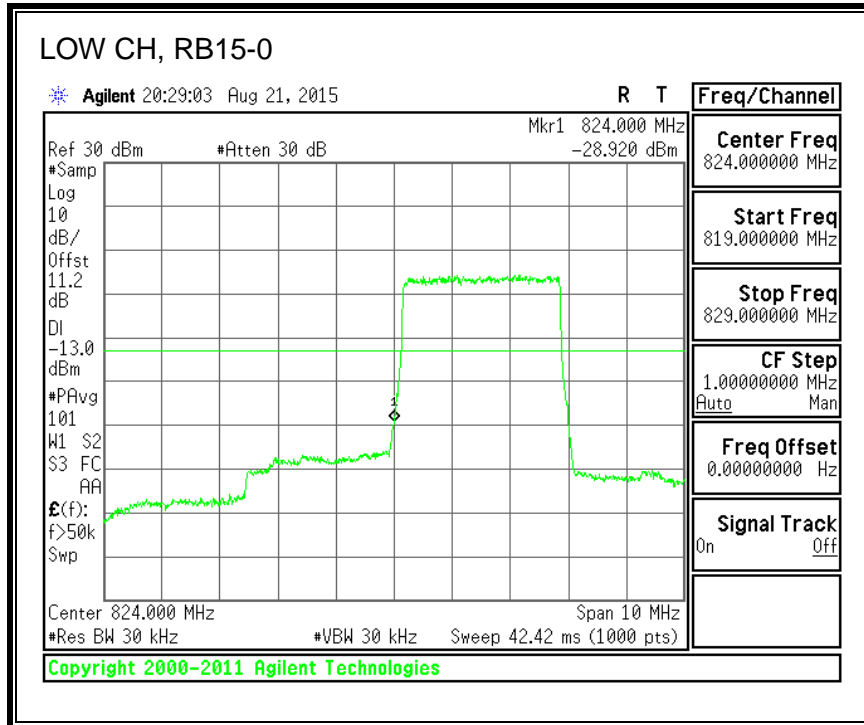


QPSK, (3.0 MHz BAND WIDTH)

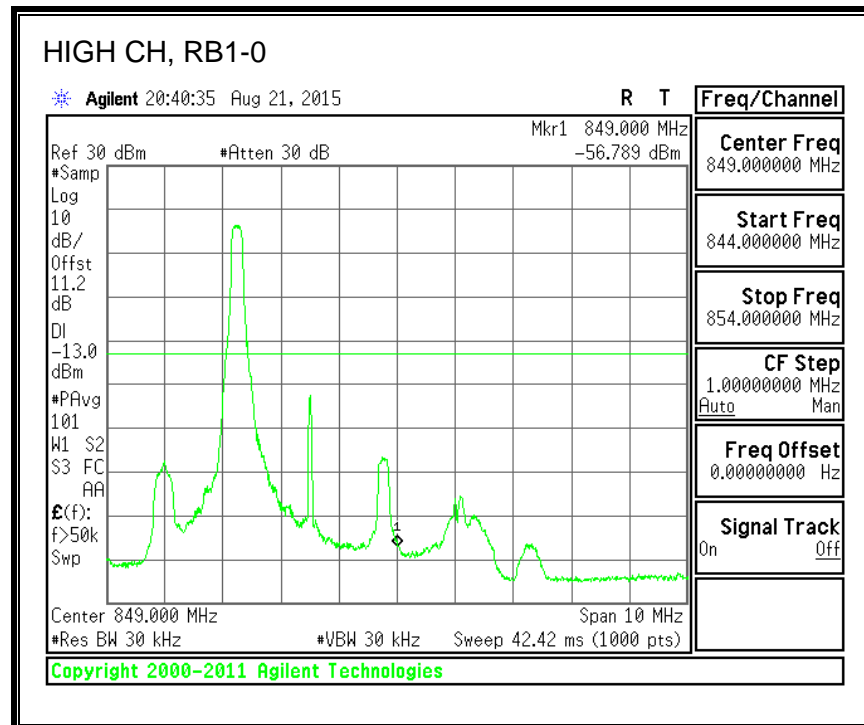
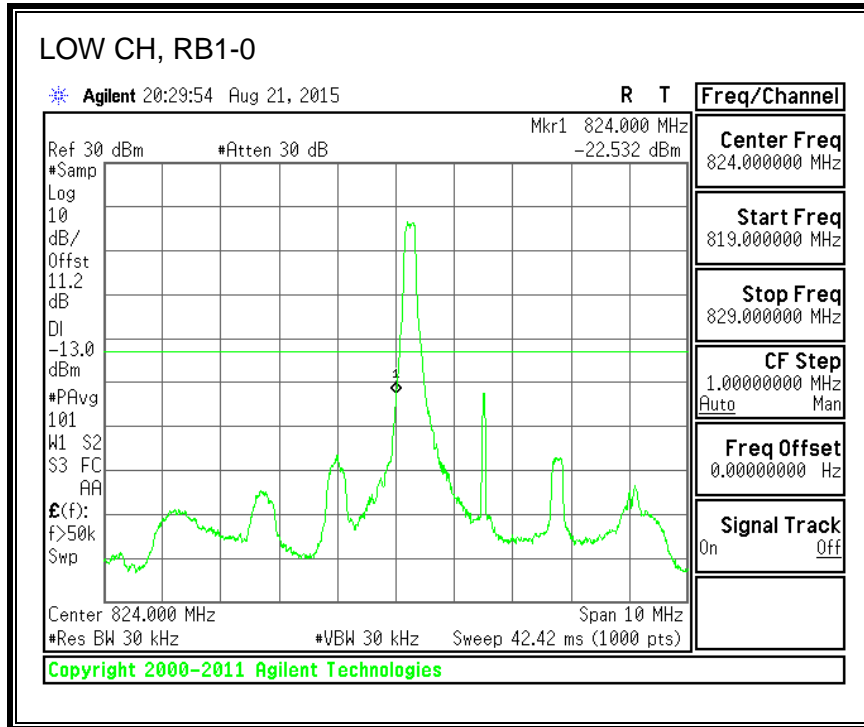


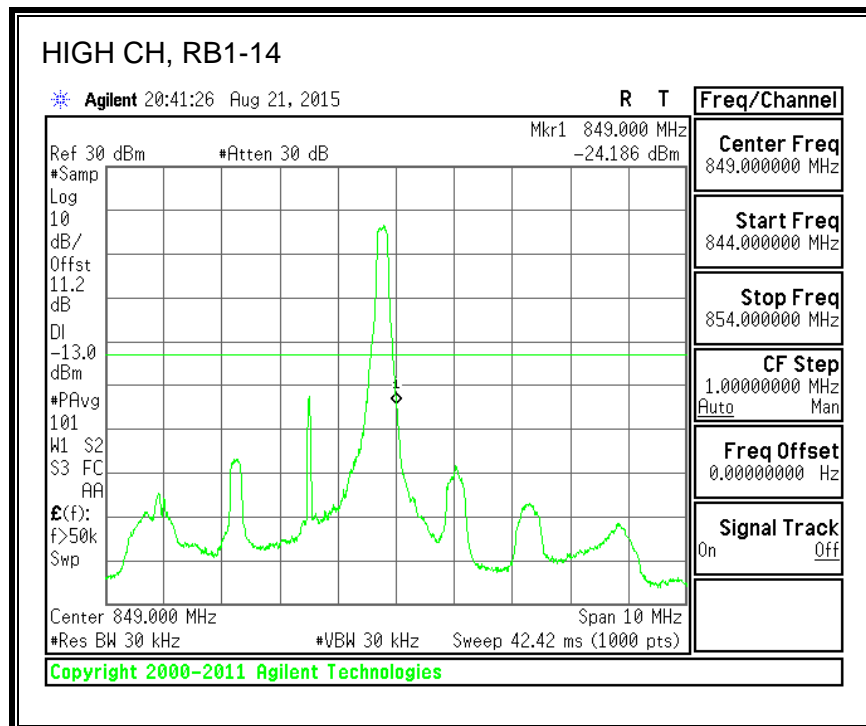
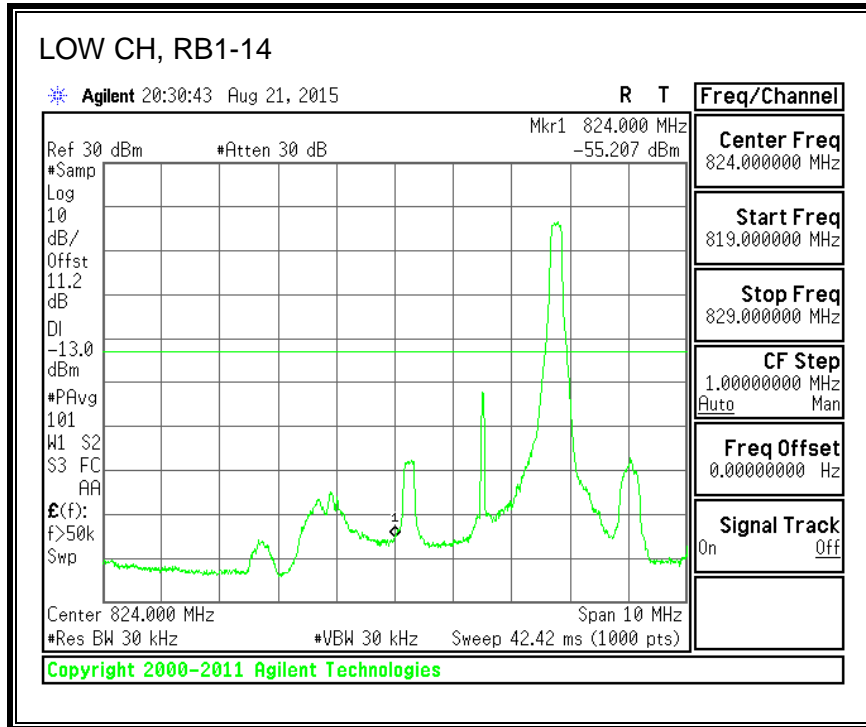


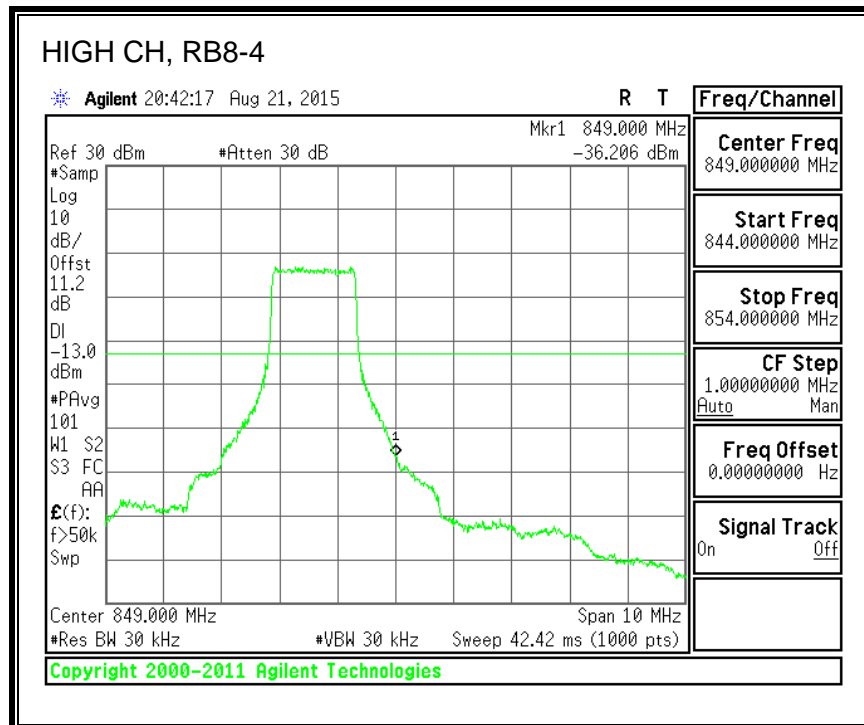
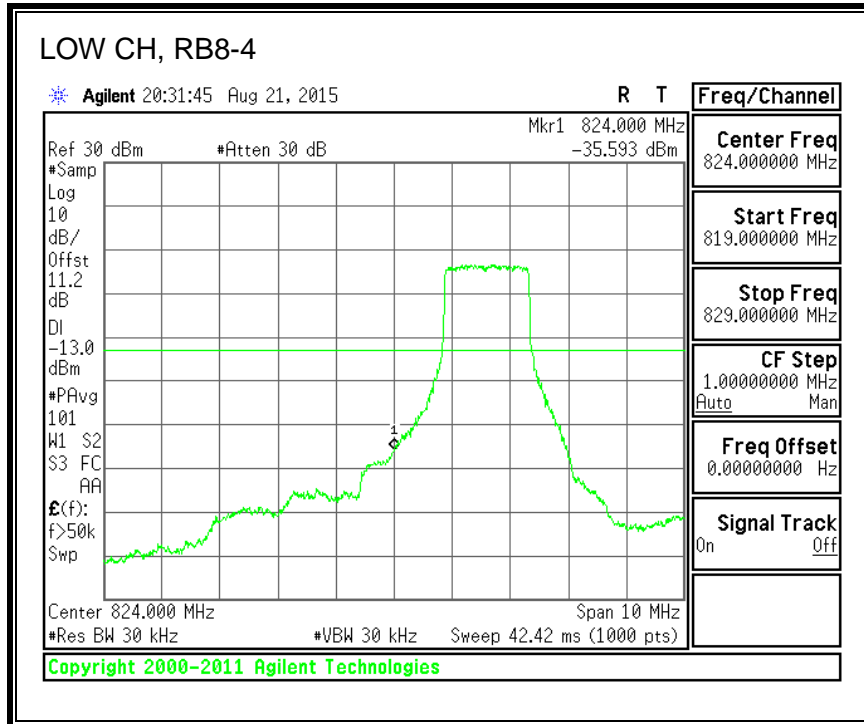


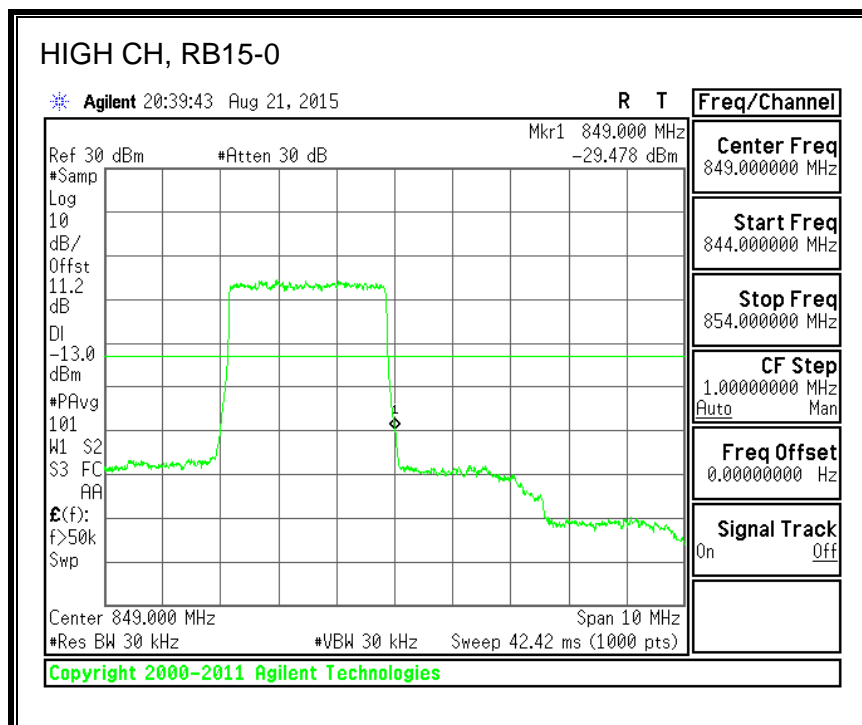
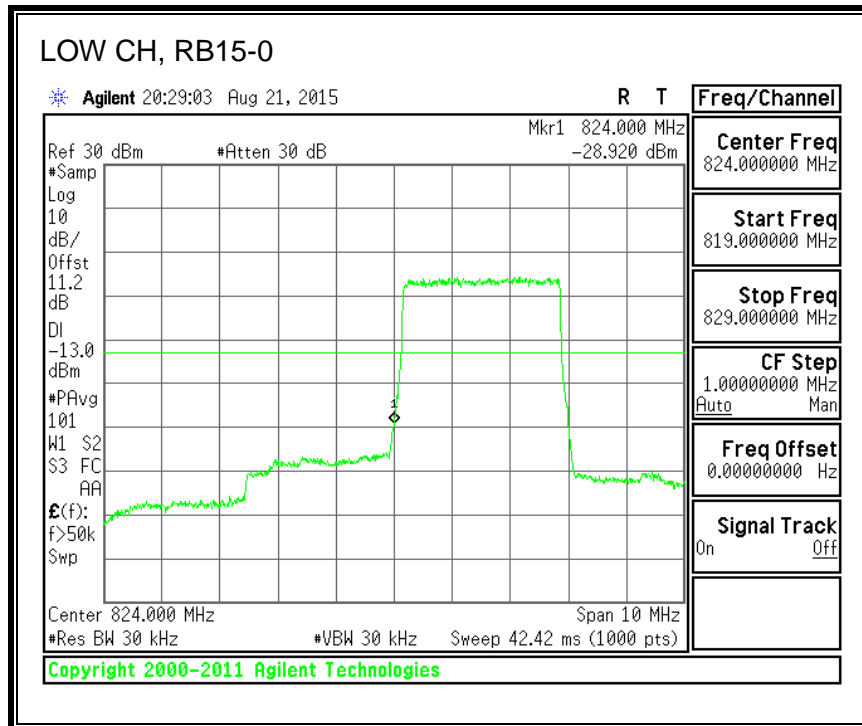


16QAM, (3.0 MHz BAND WIDTH)

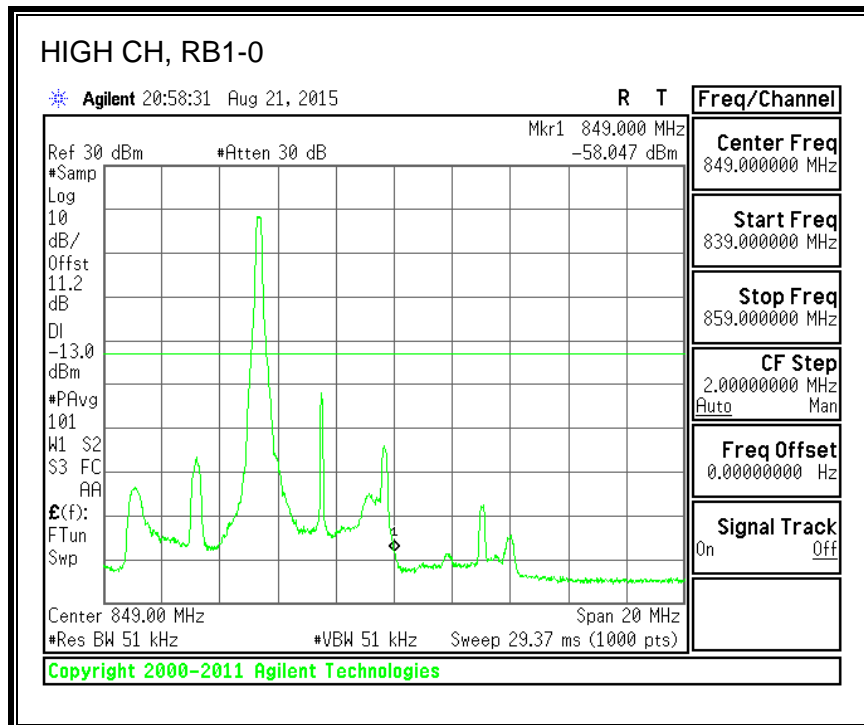
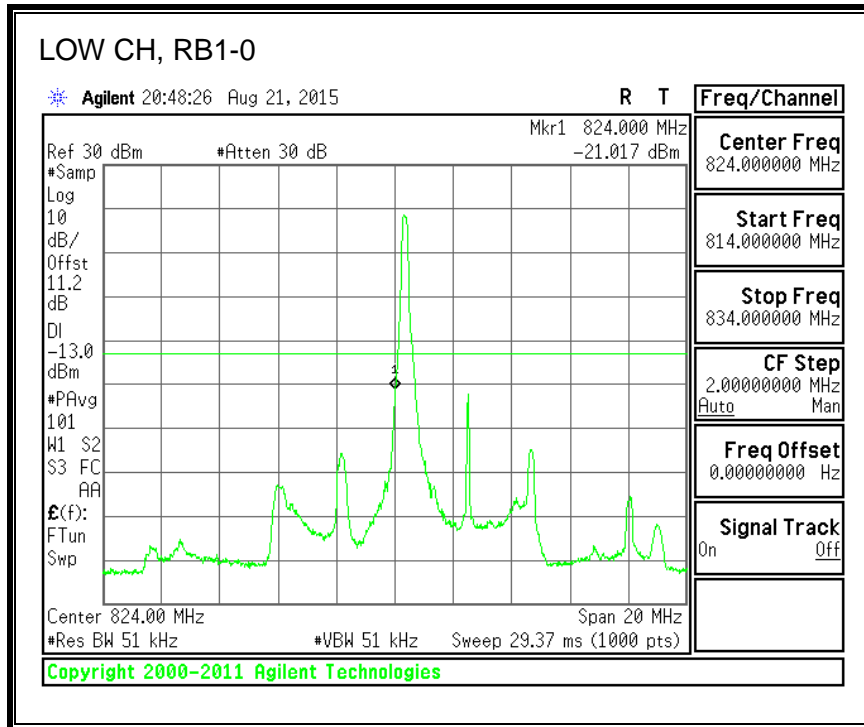


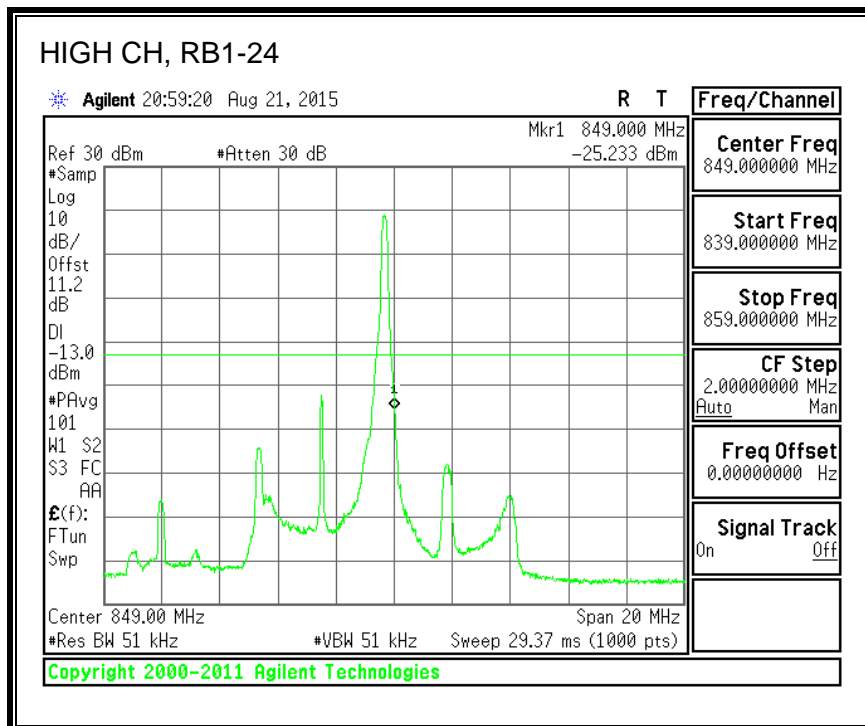
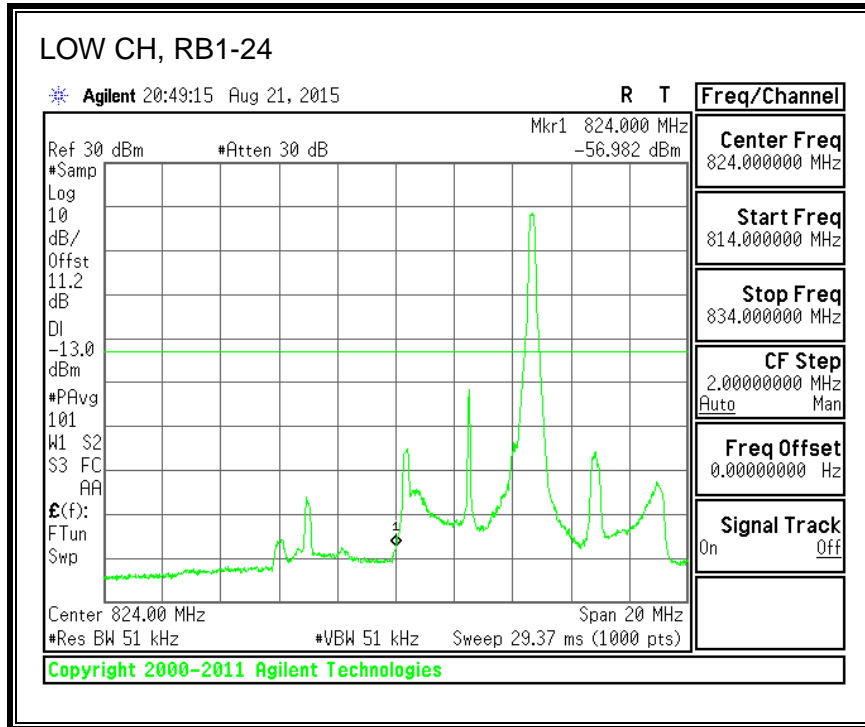


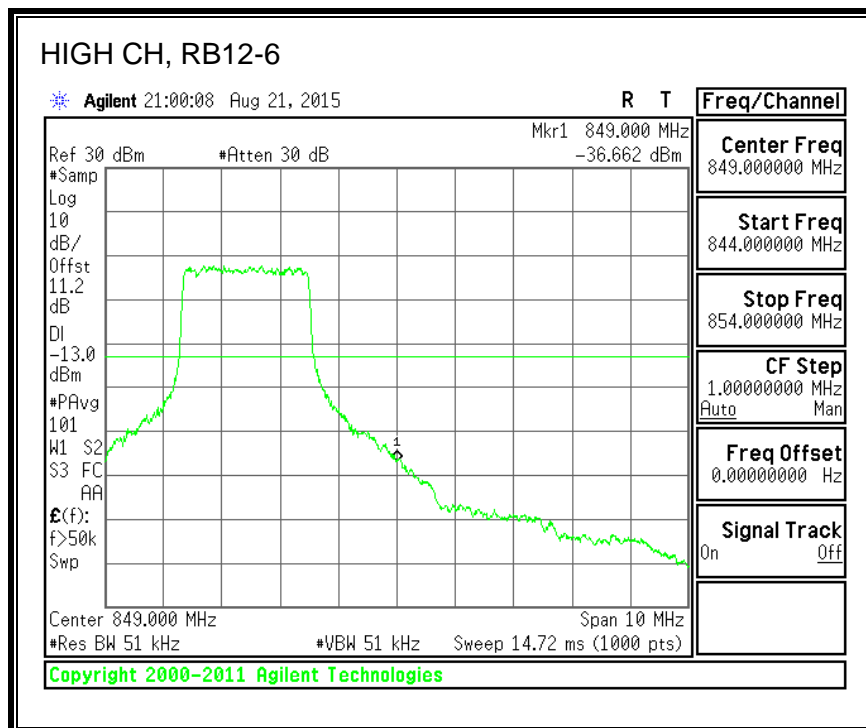
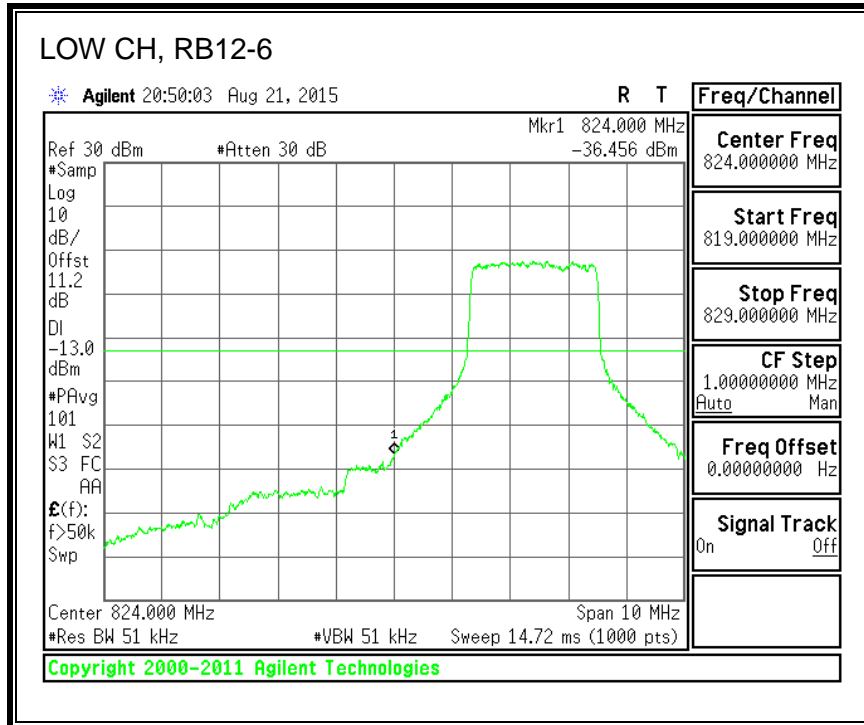


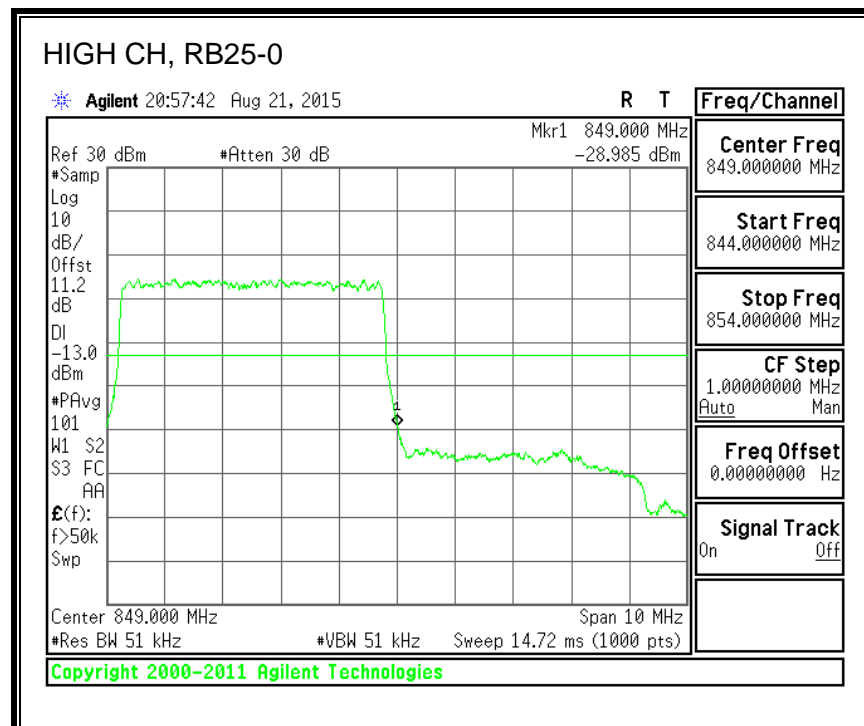
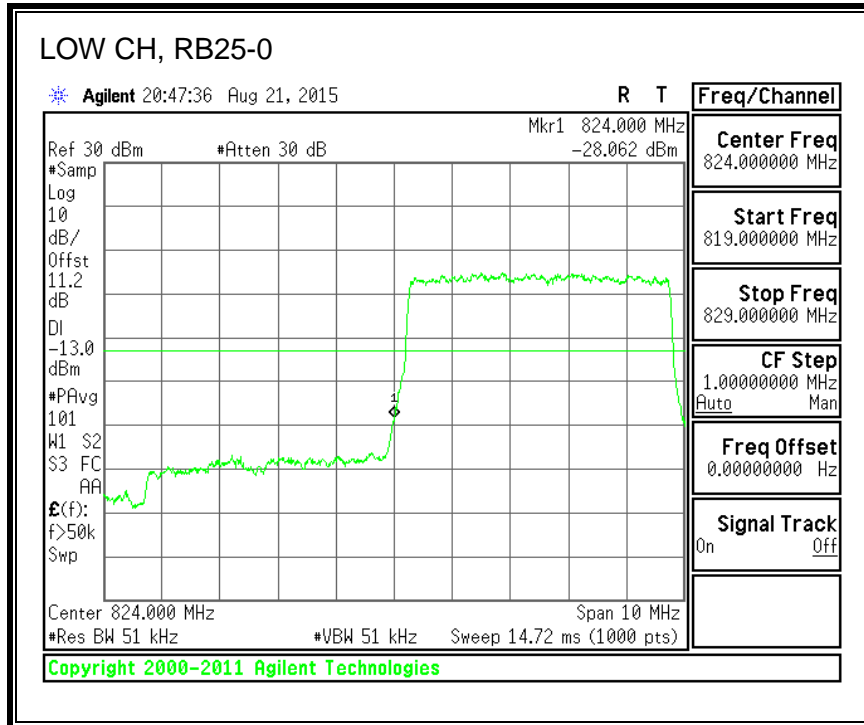


QPSK, (5.0 MHz BAND WIDTH)

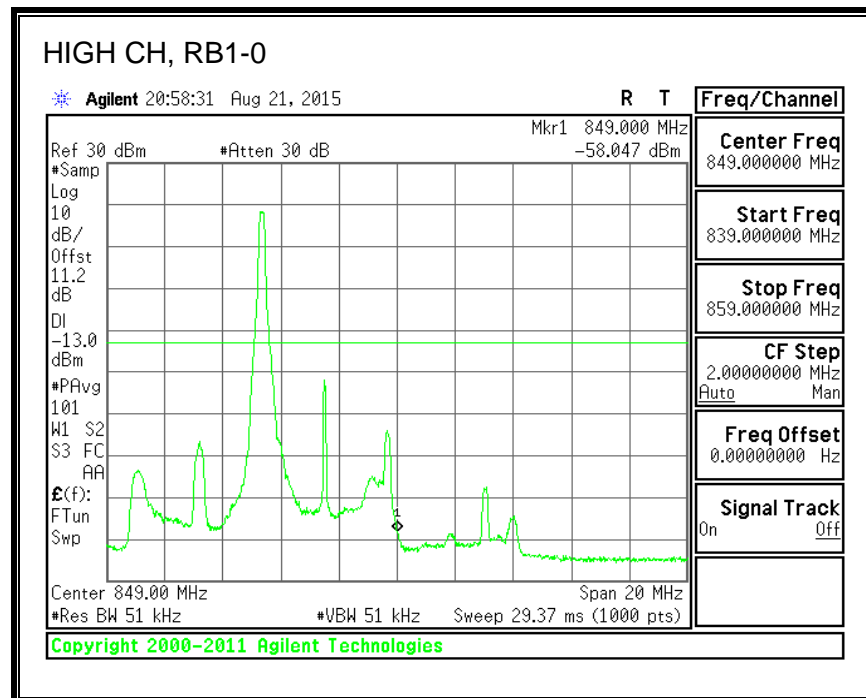
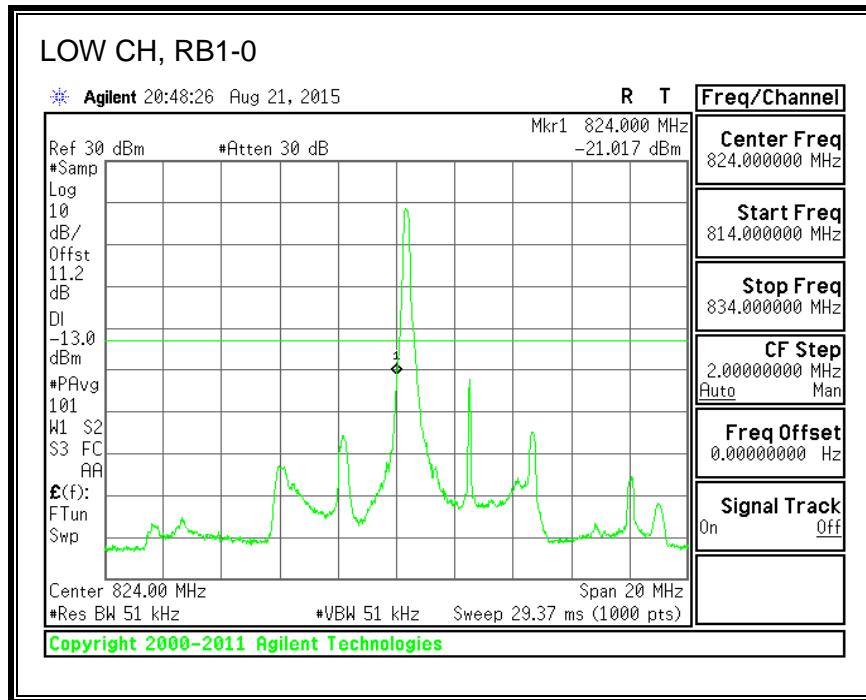


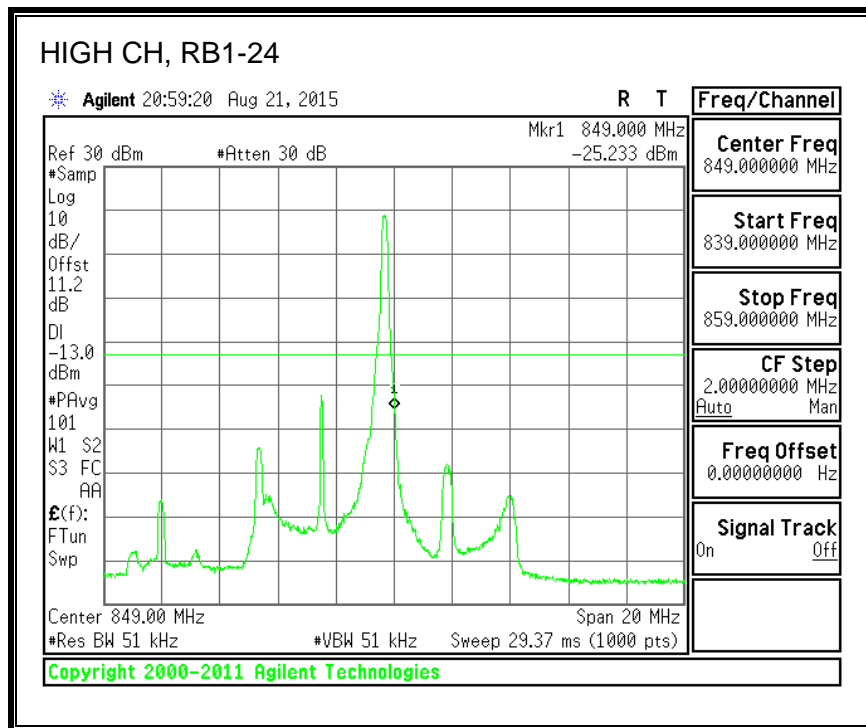
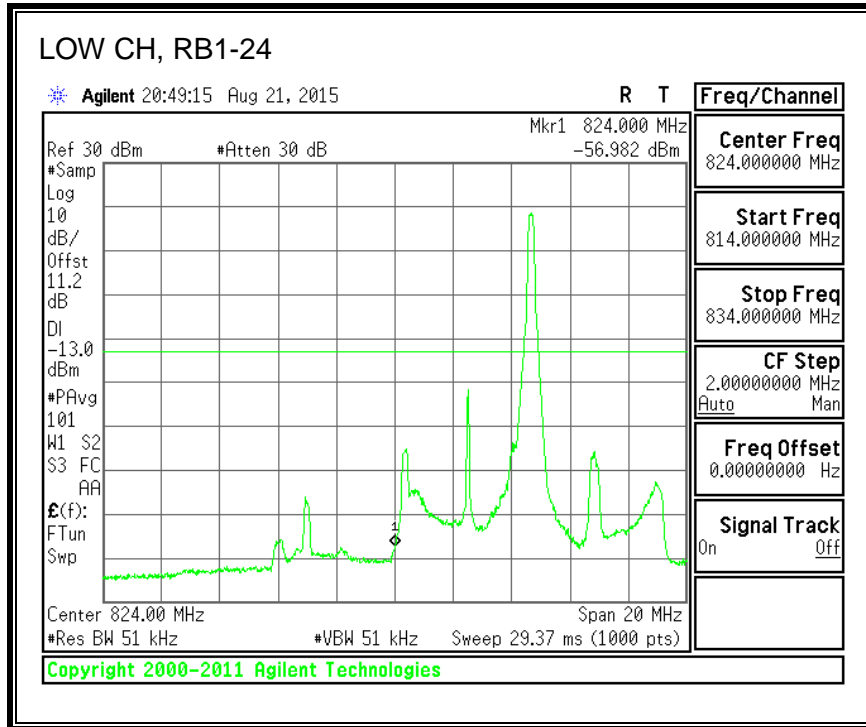


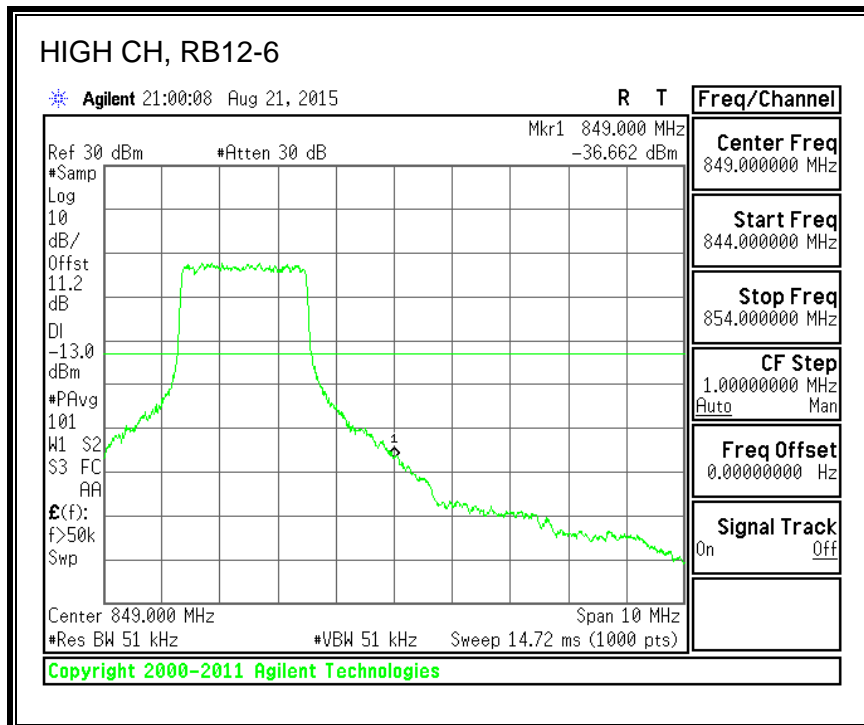
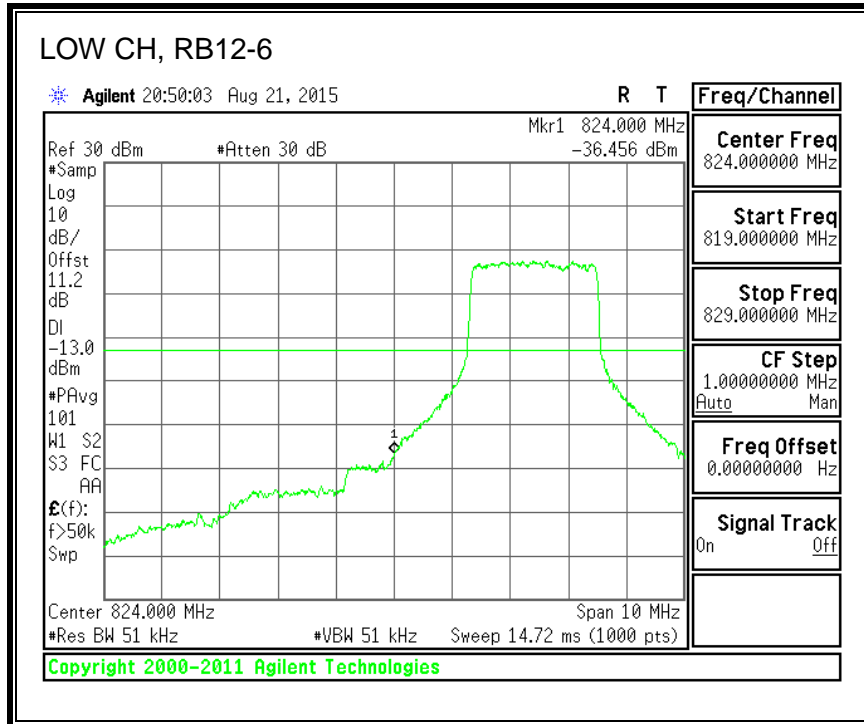


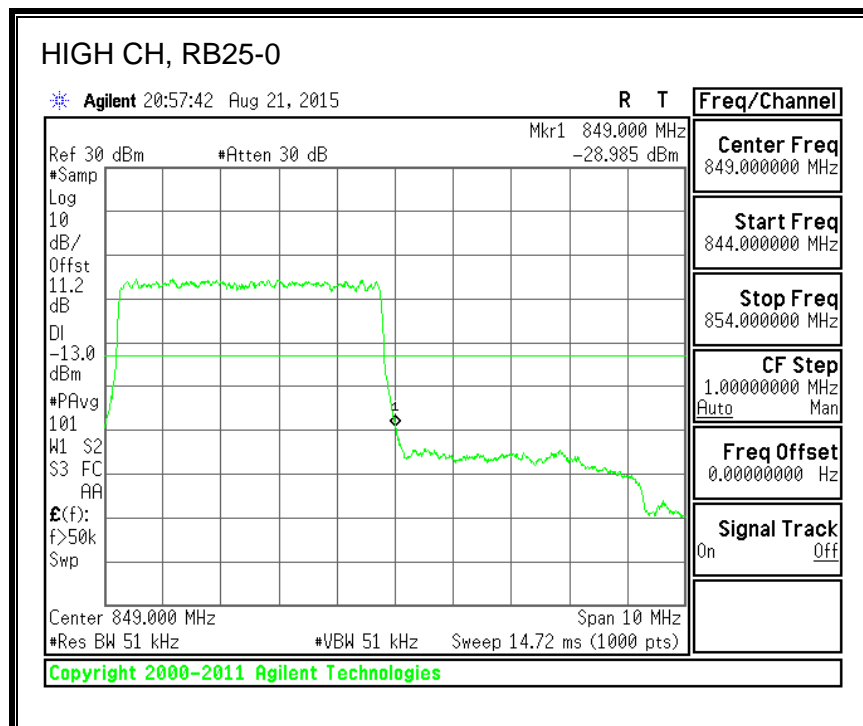
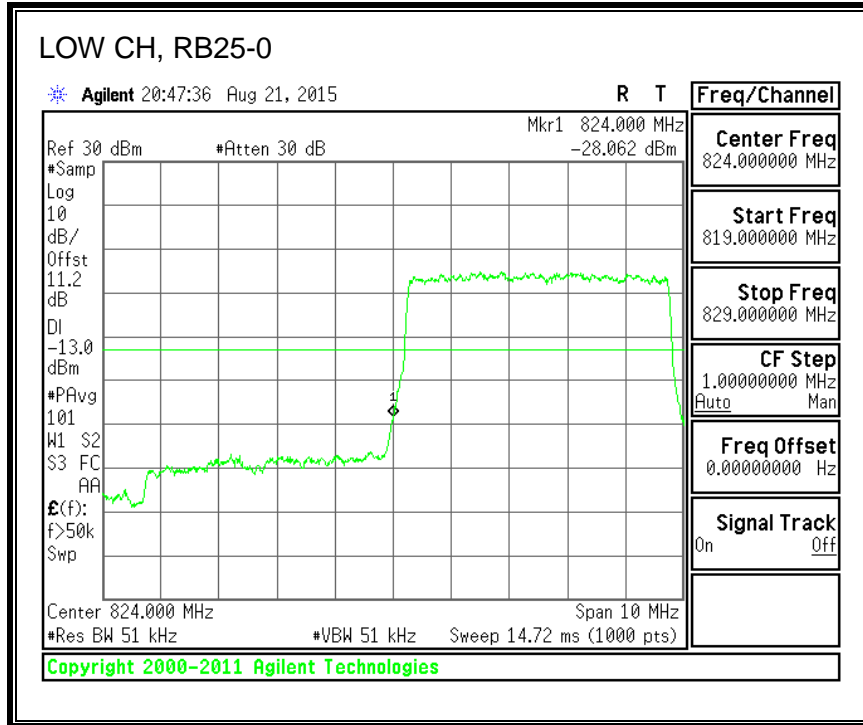


16QAM, (5.0 MHz BAND WIDTH)

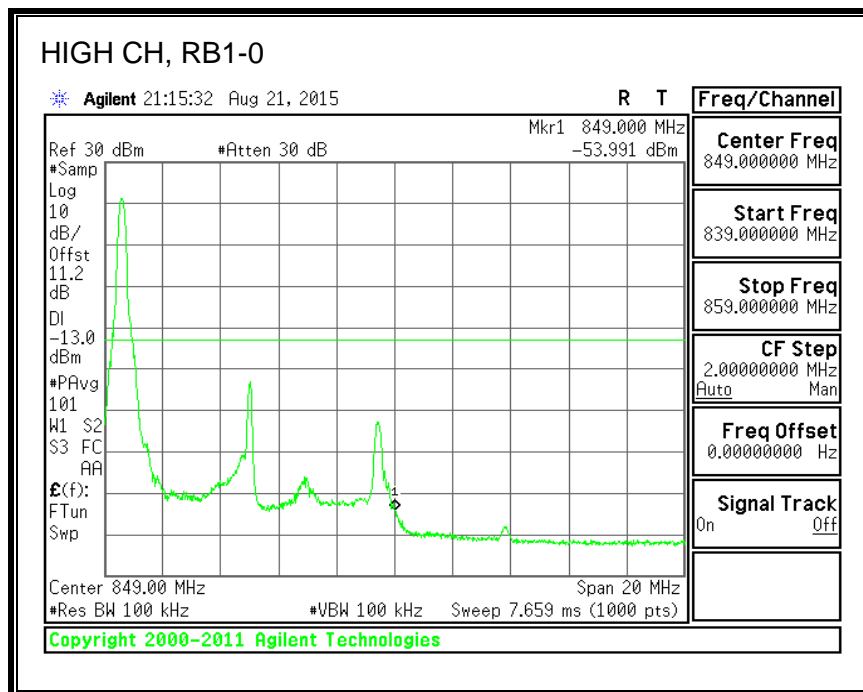
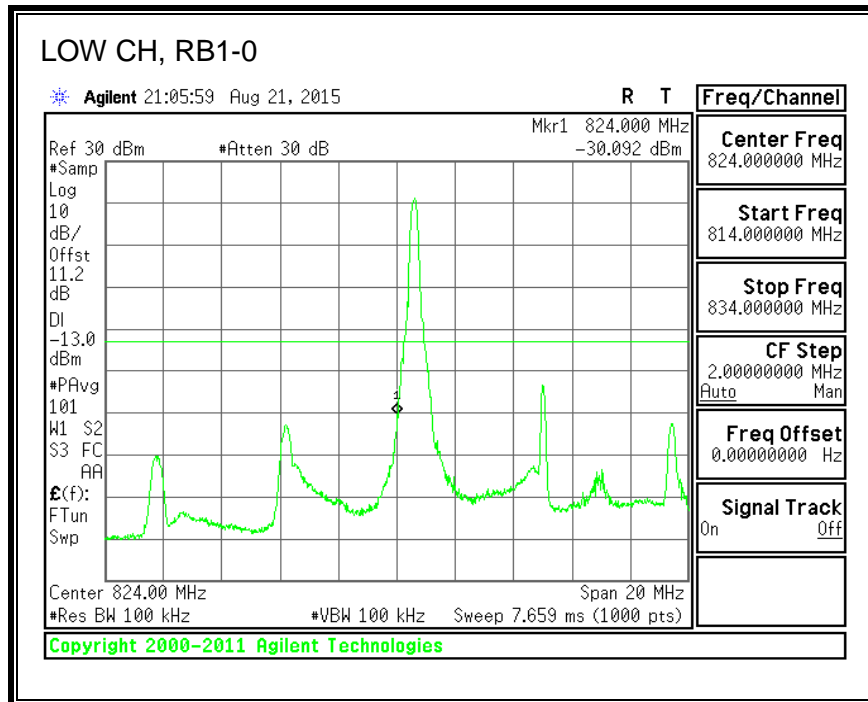


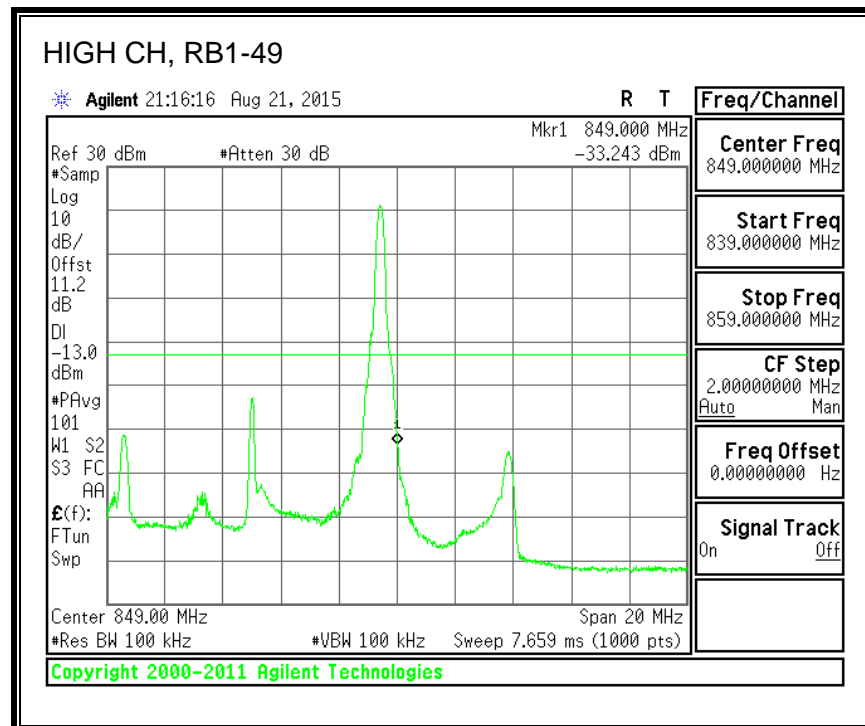
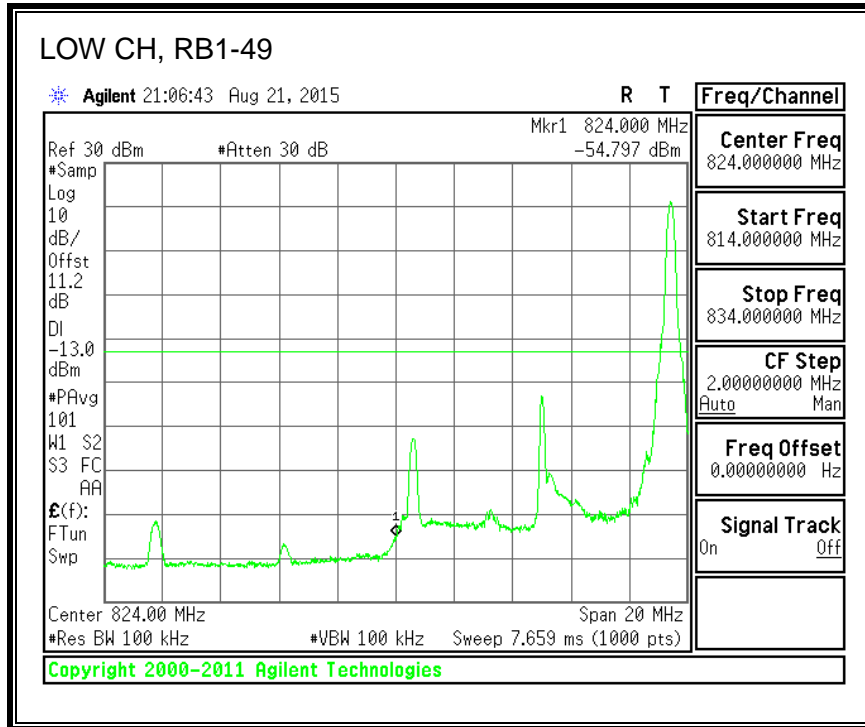


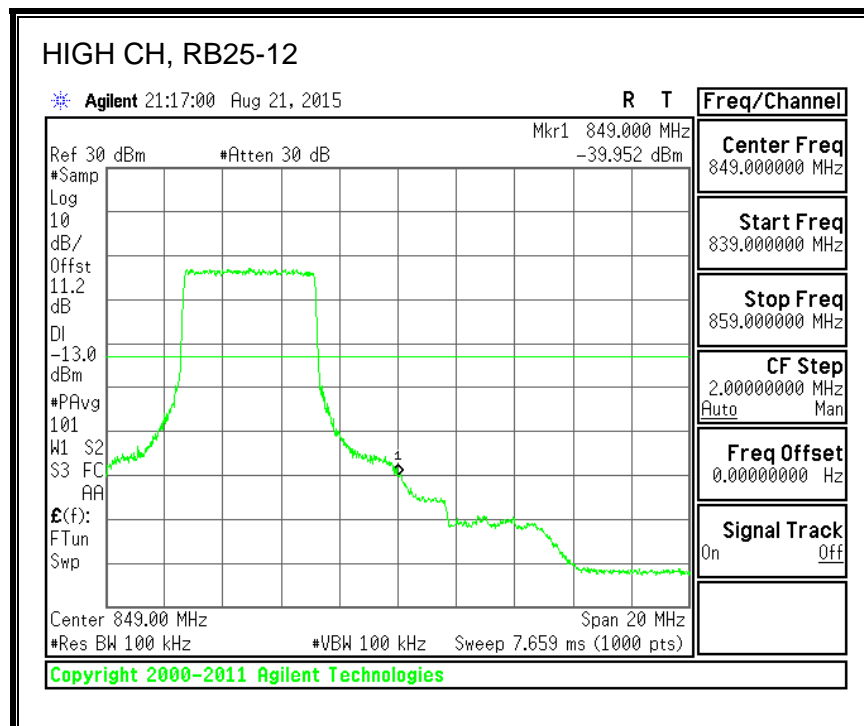
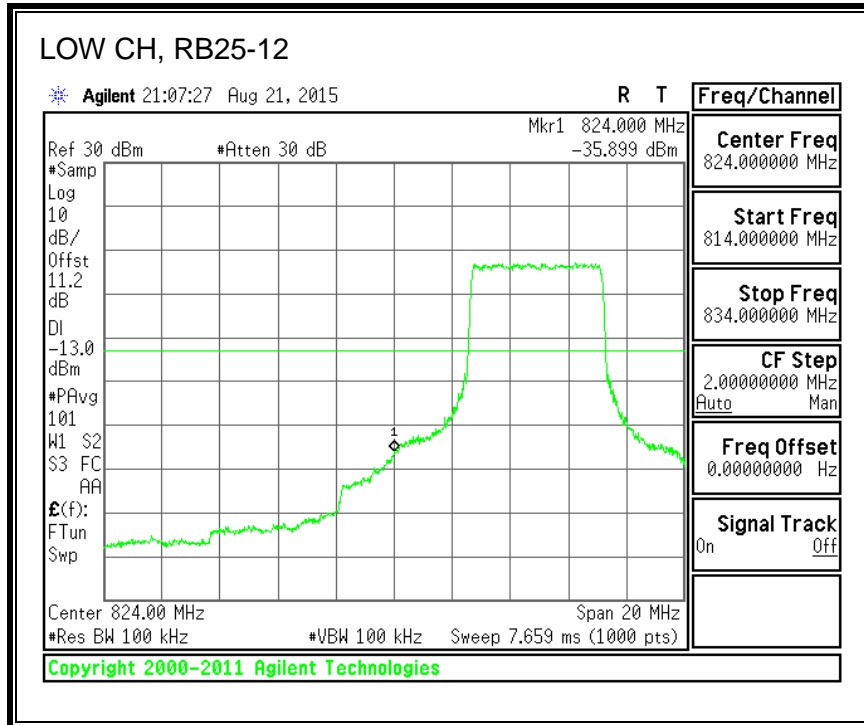


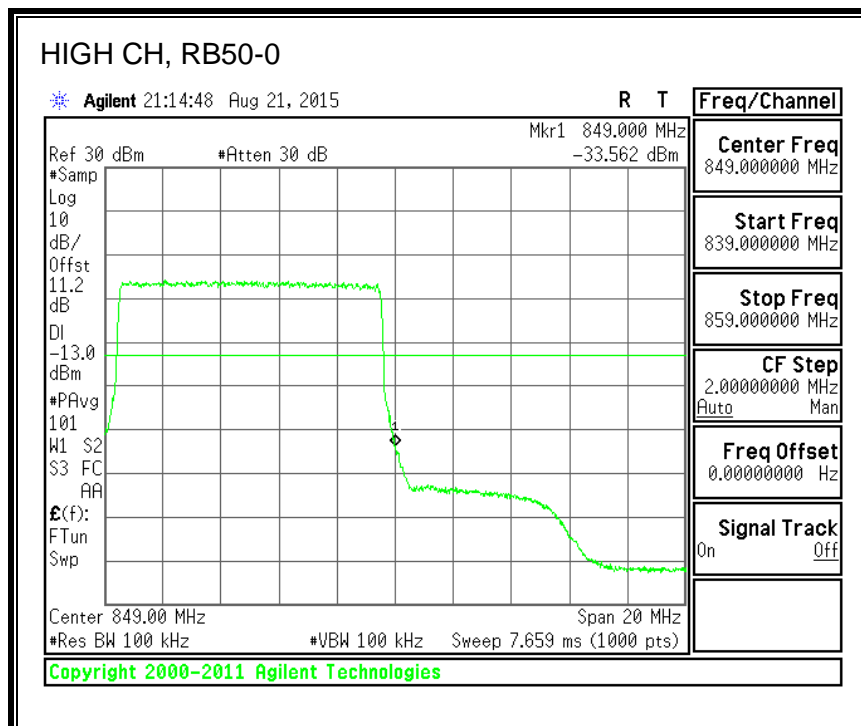
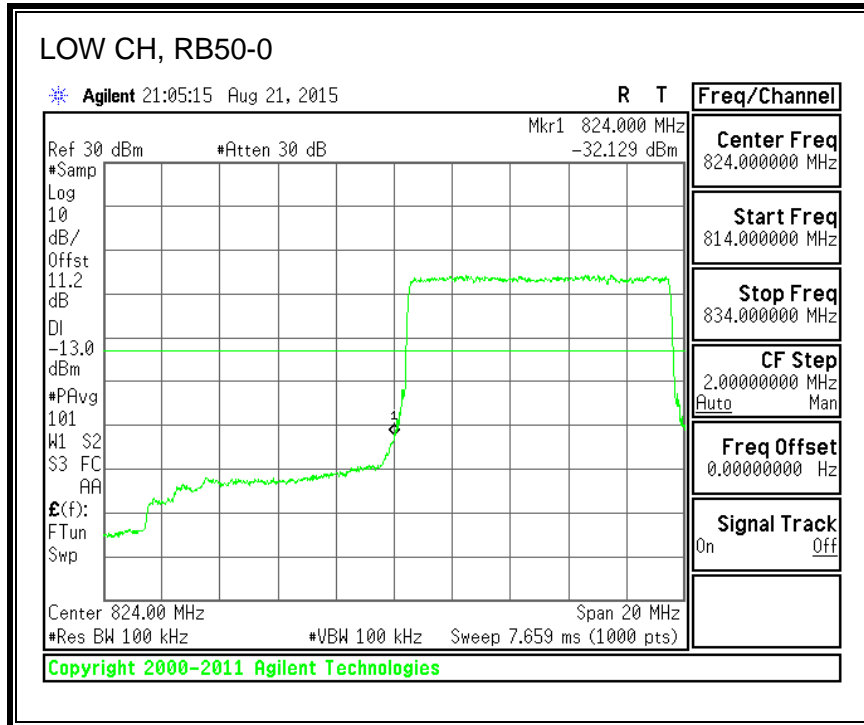


QPSK, (10.0 MHz BAND WIDTH)

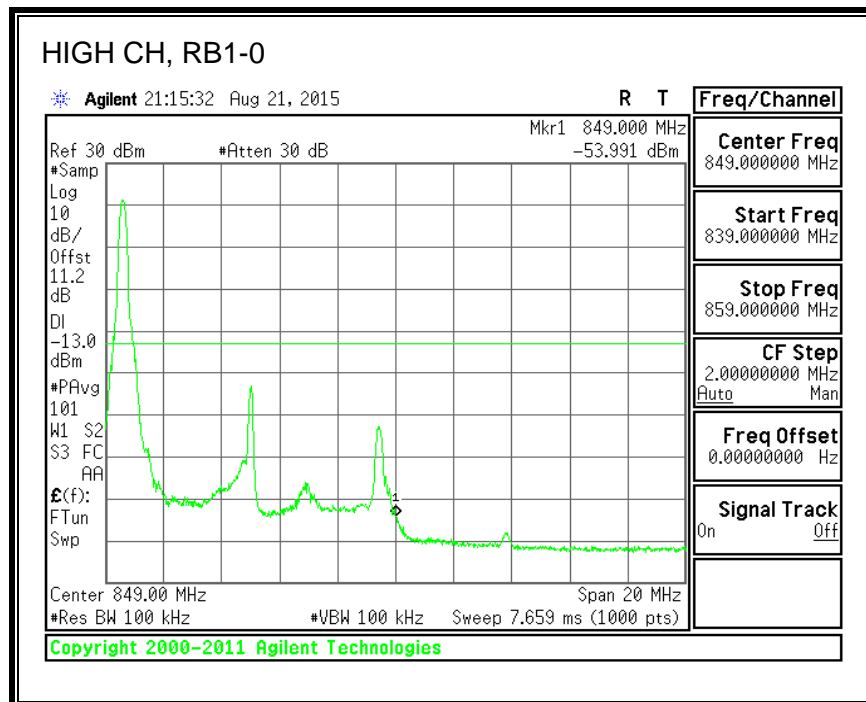
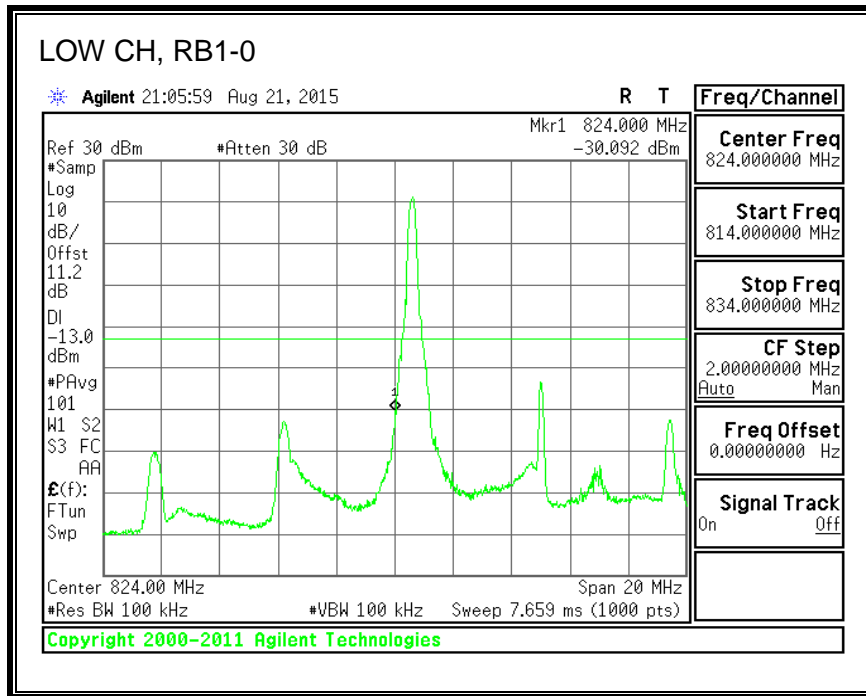


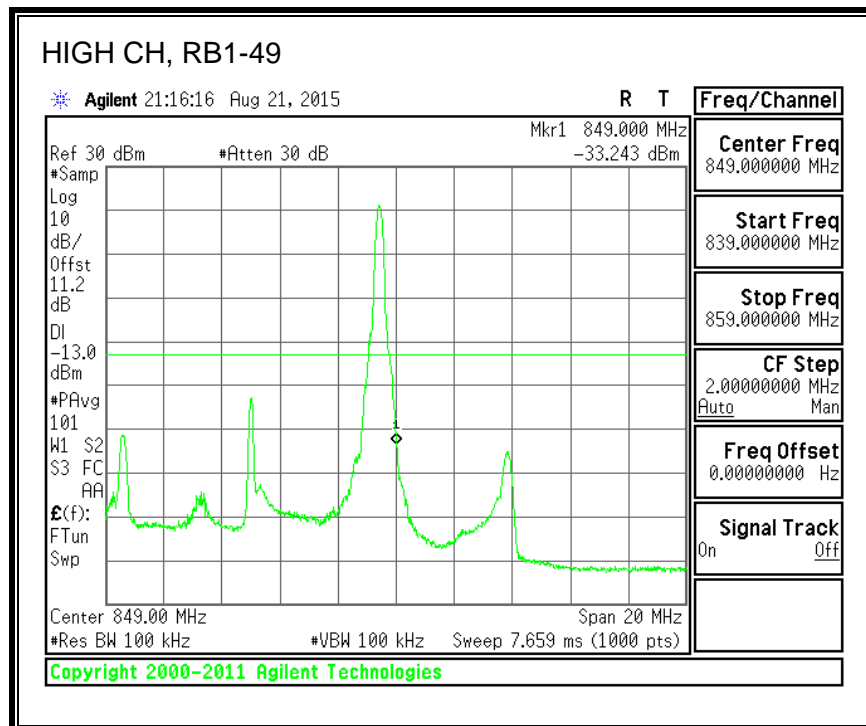
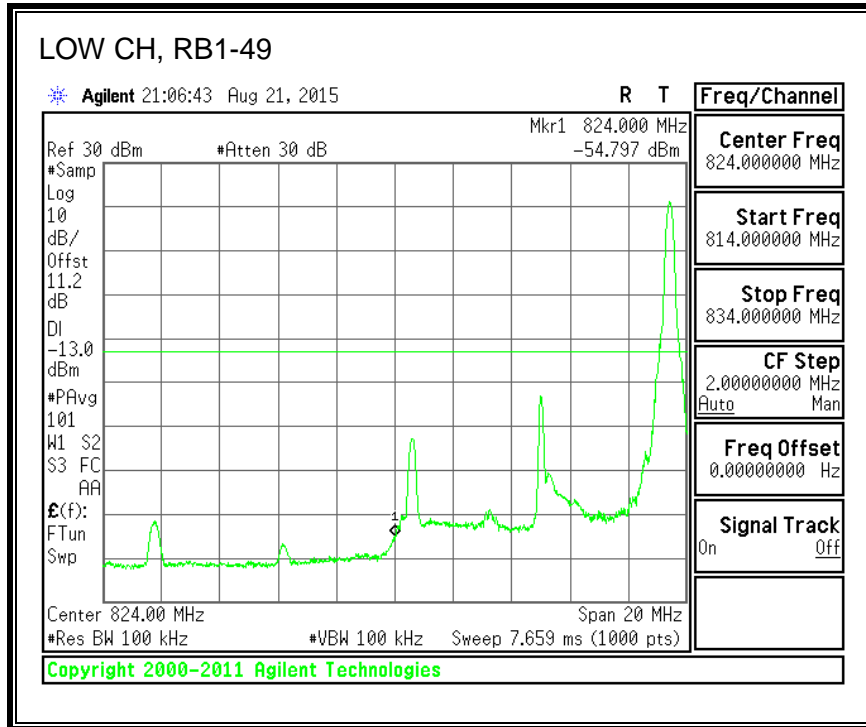


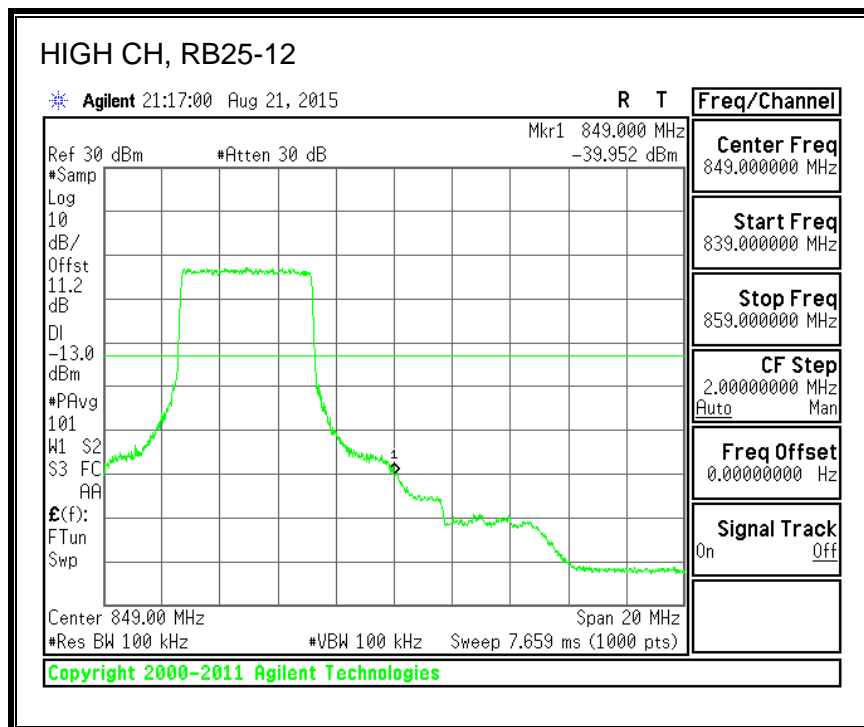
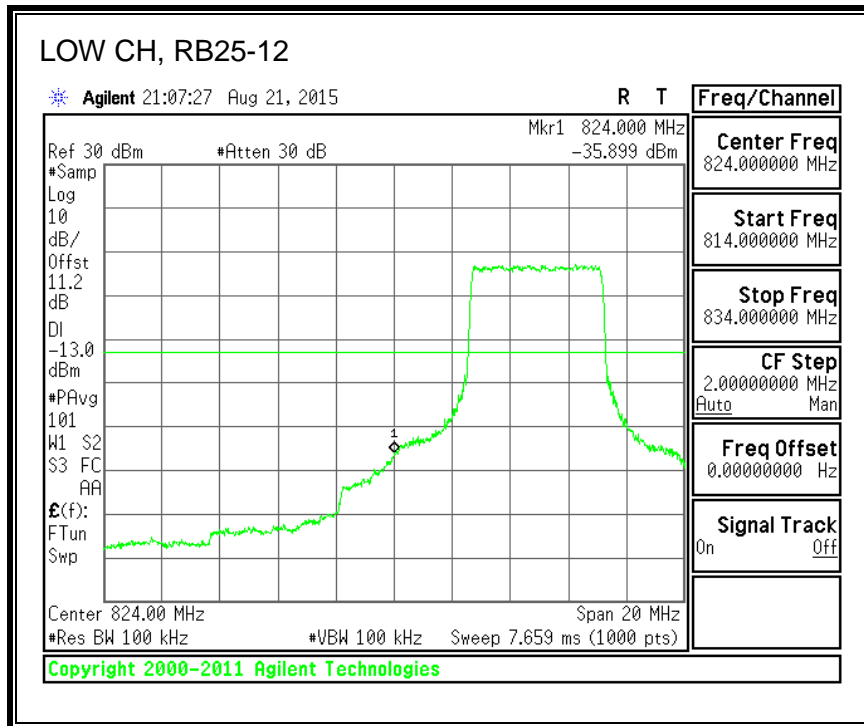


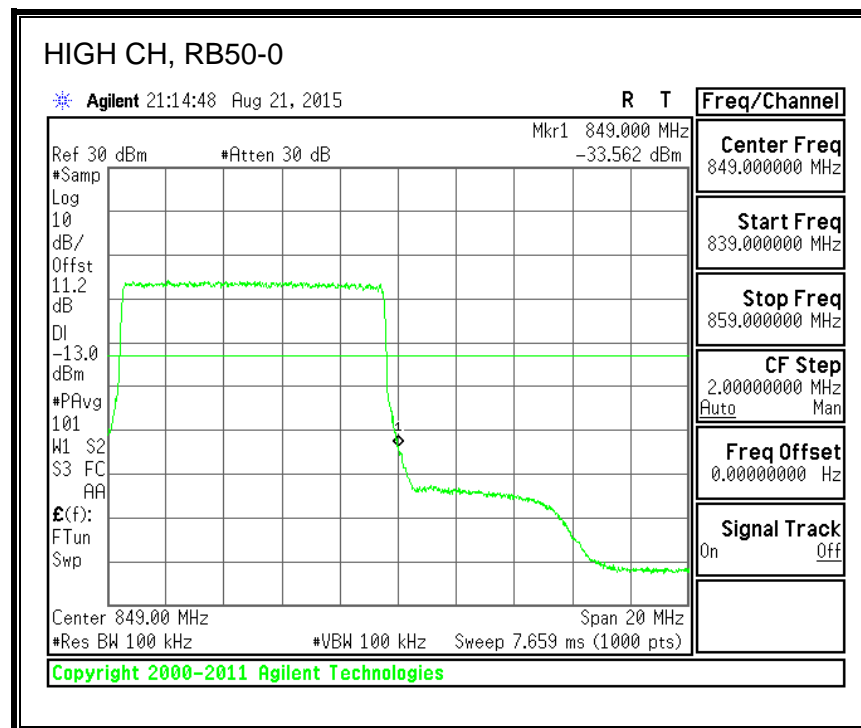
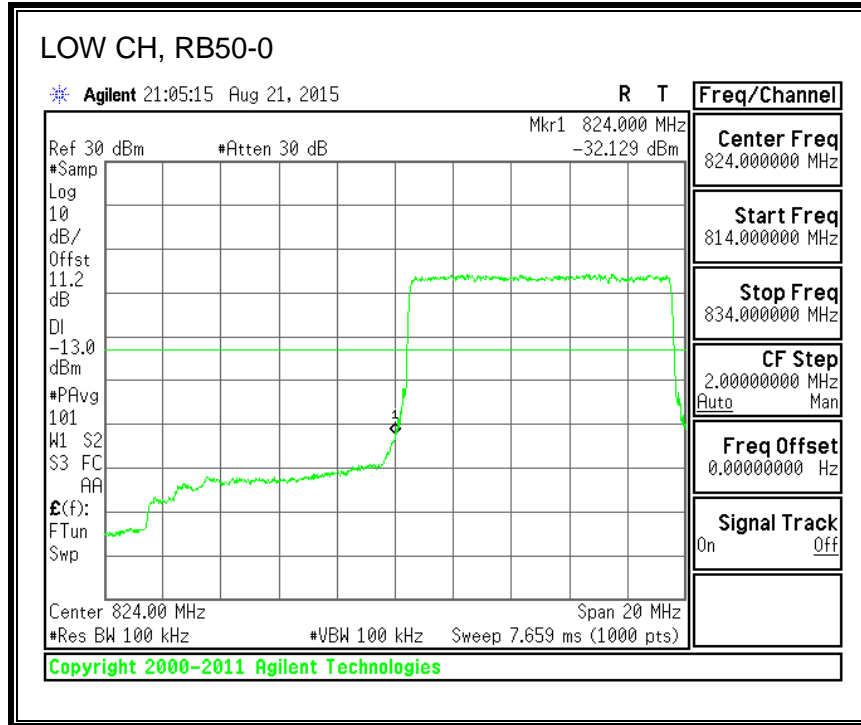


16QAM, (10.0 MHz BAND WIDTH)



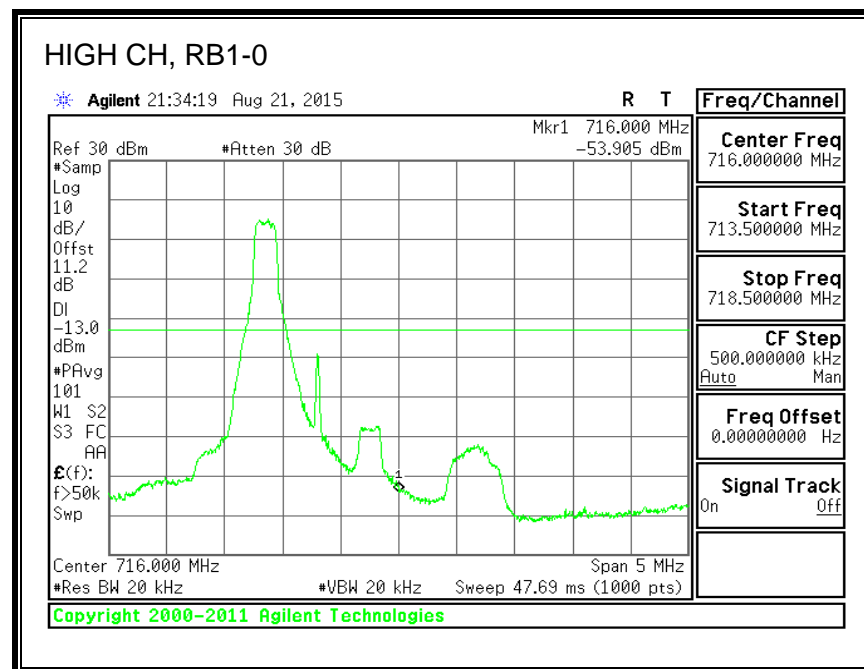
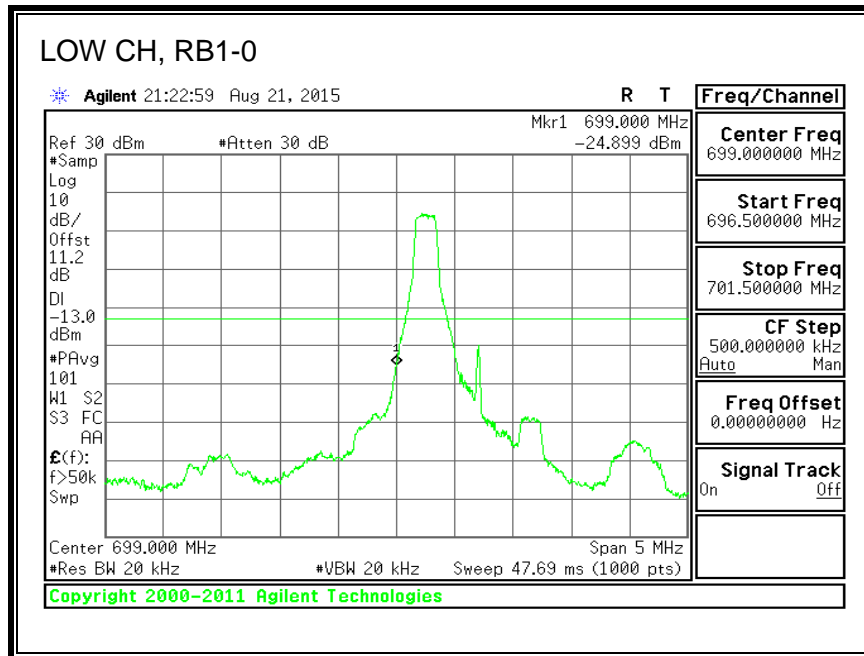


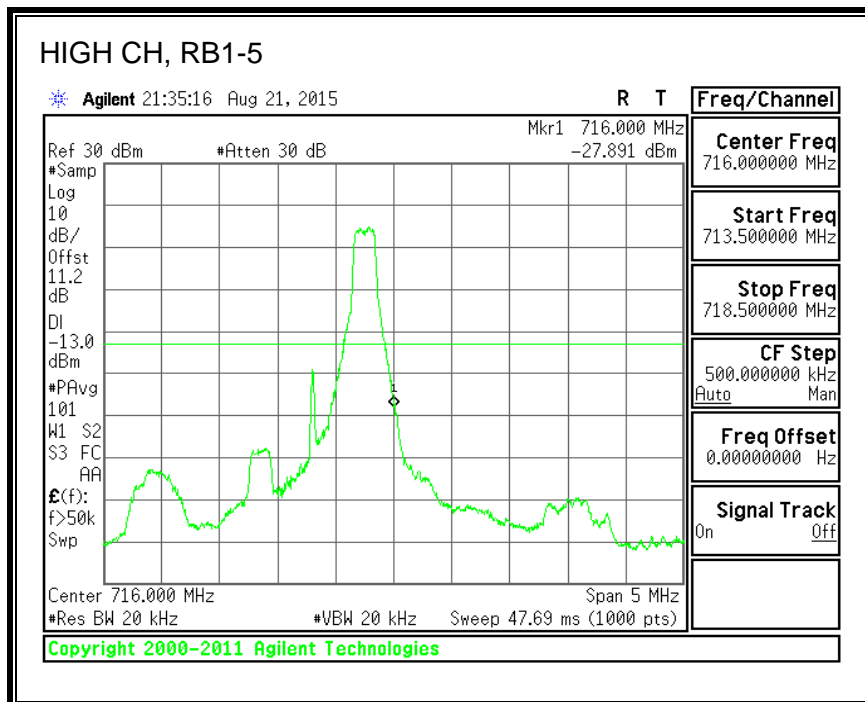
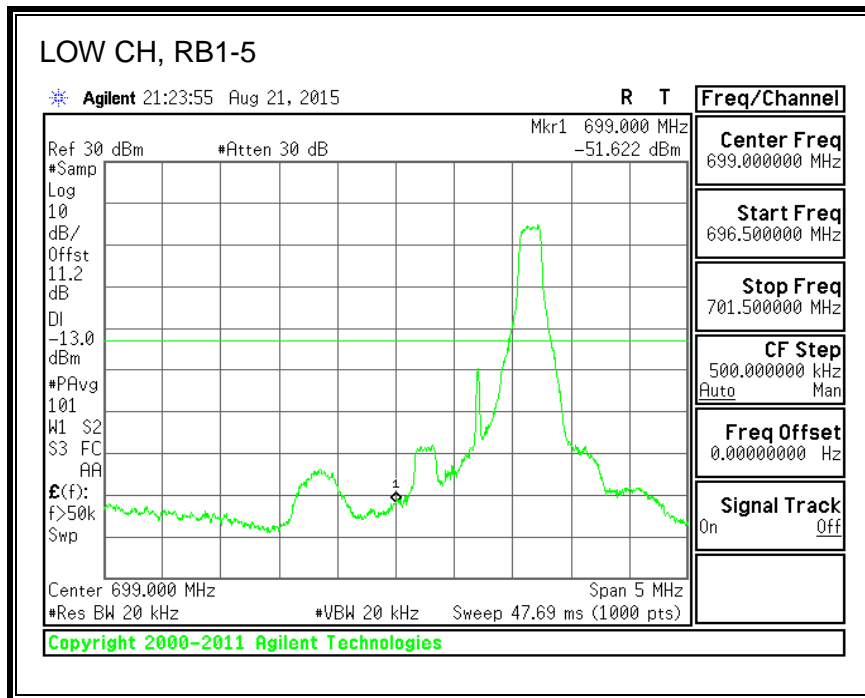


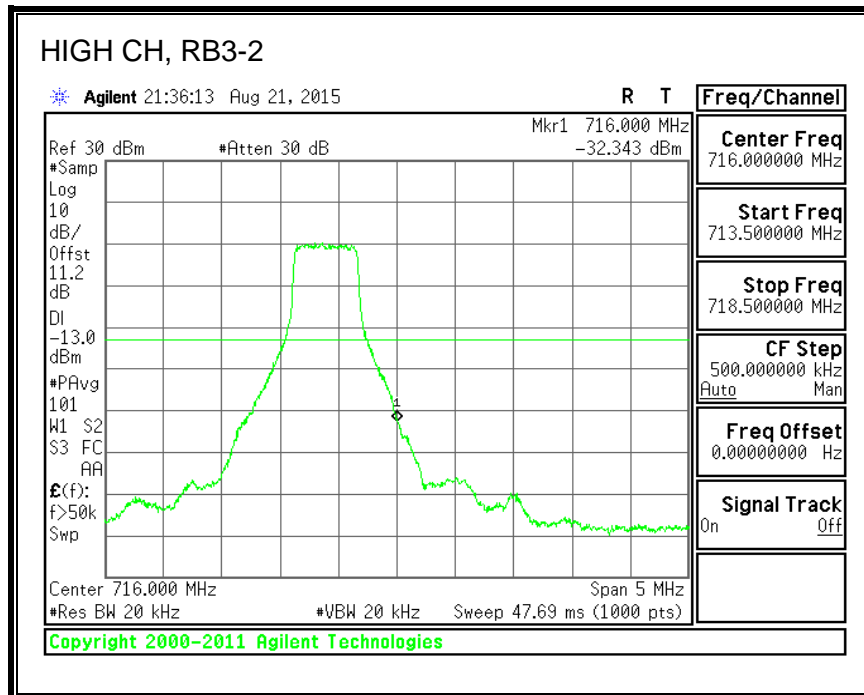
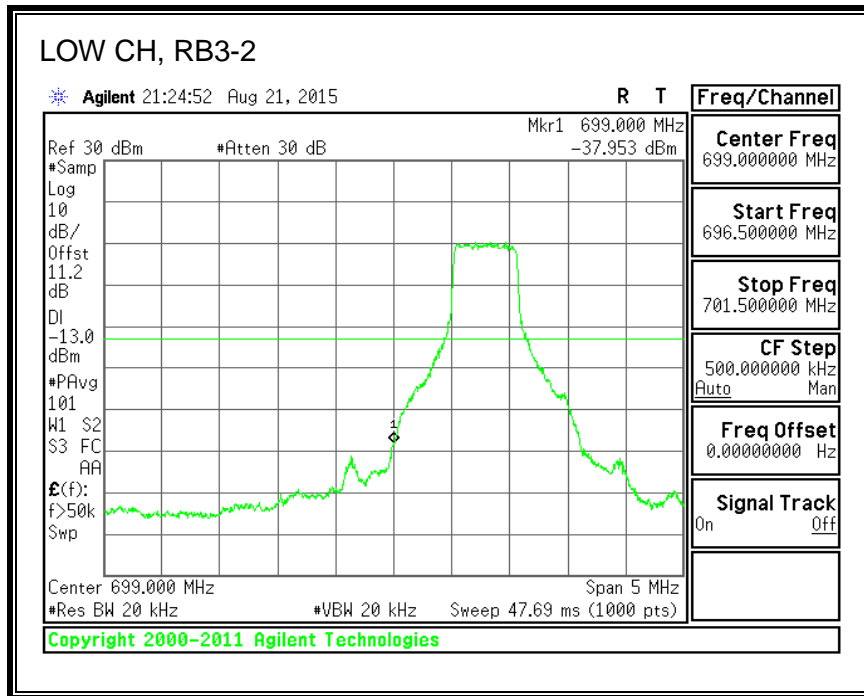


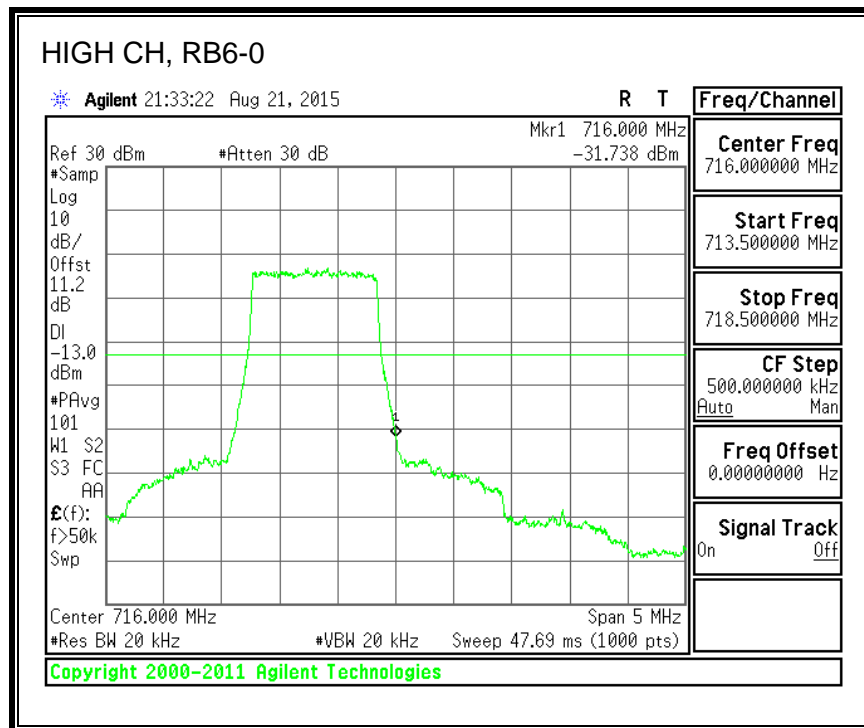
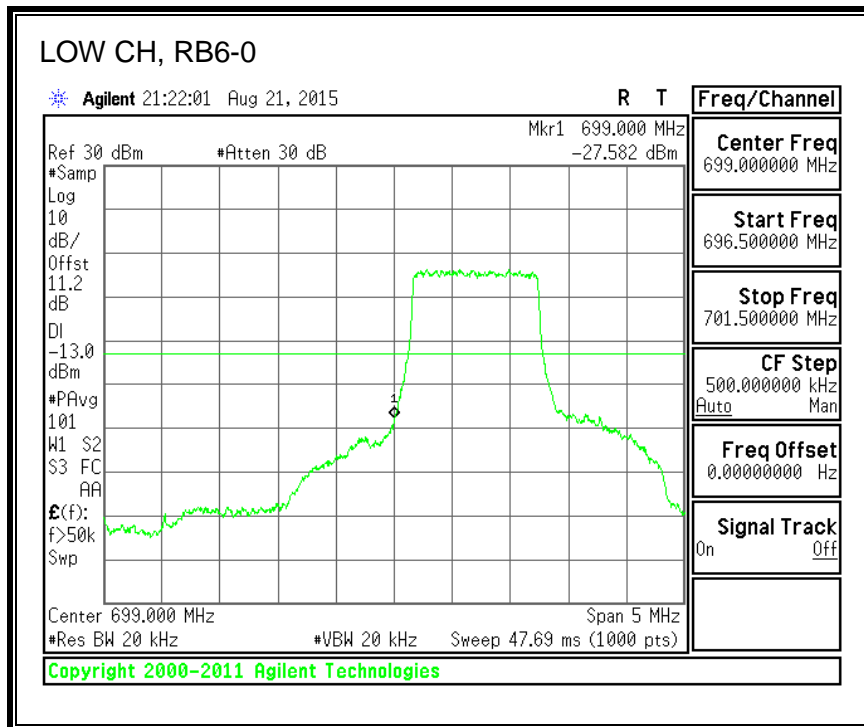
8.2.4. LTE BAND 12 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

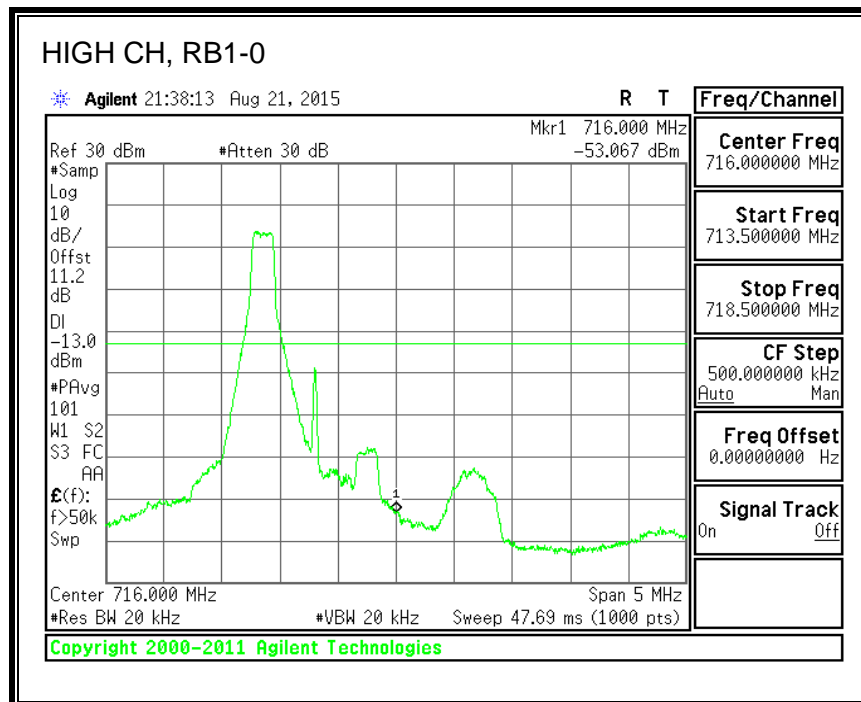
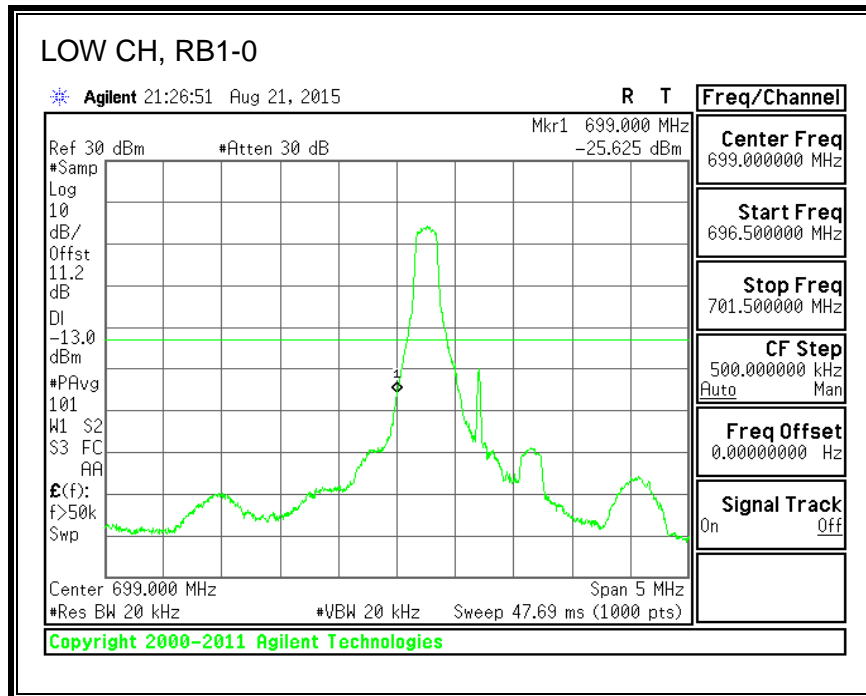


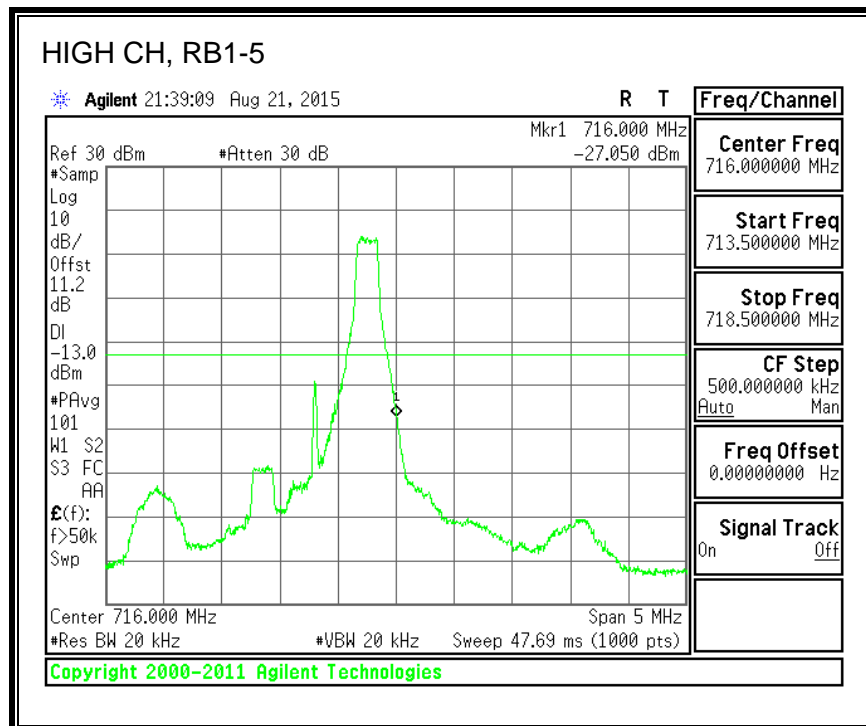
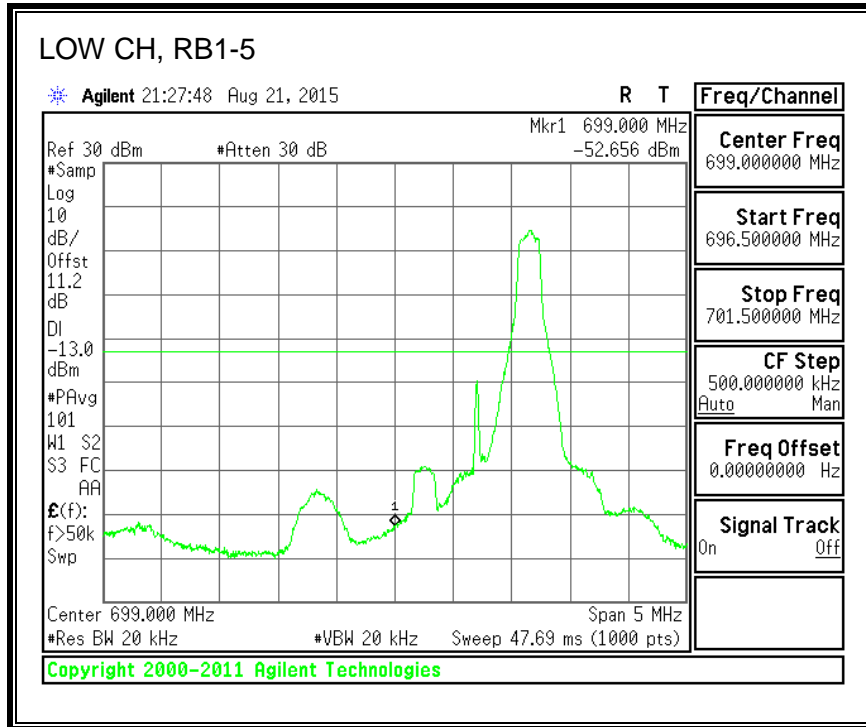


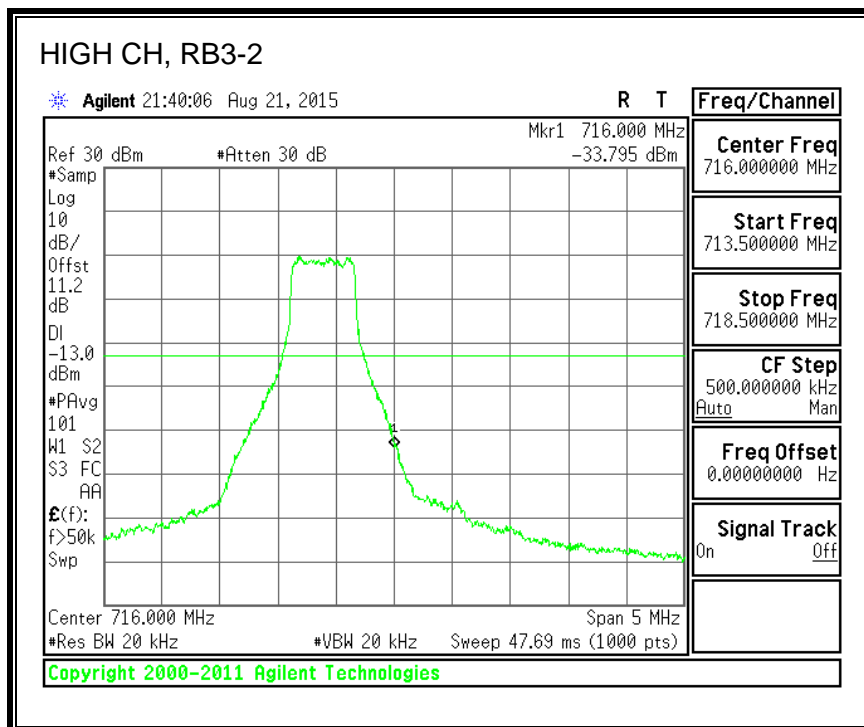
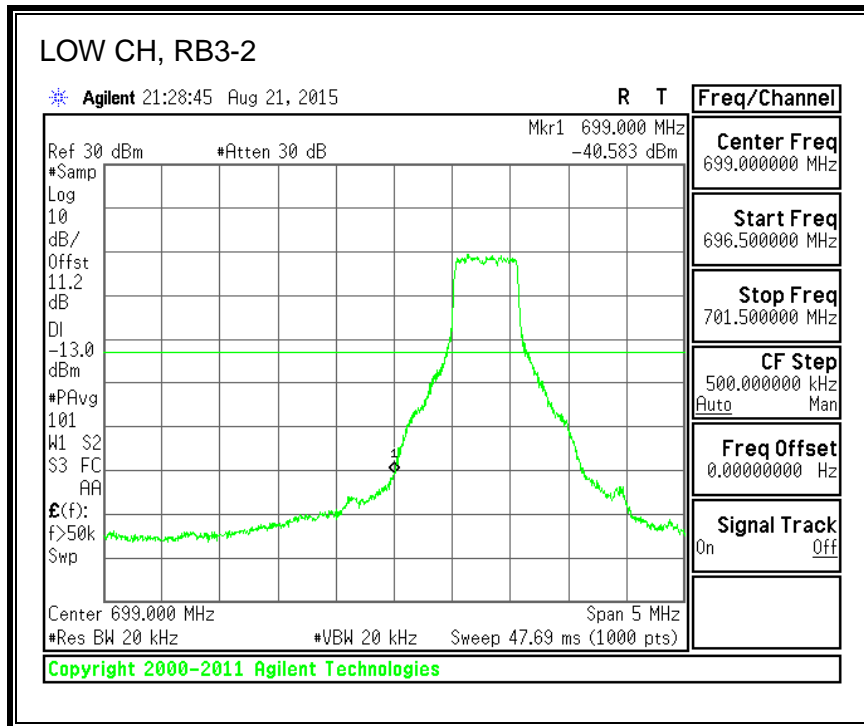


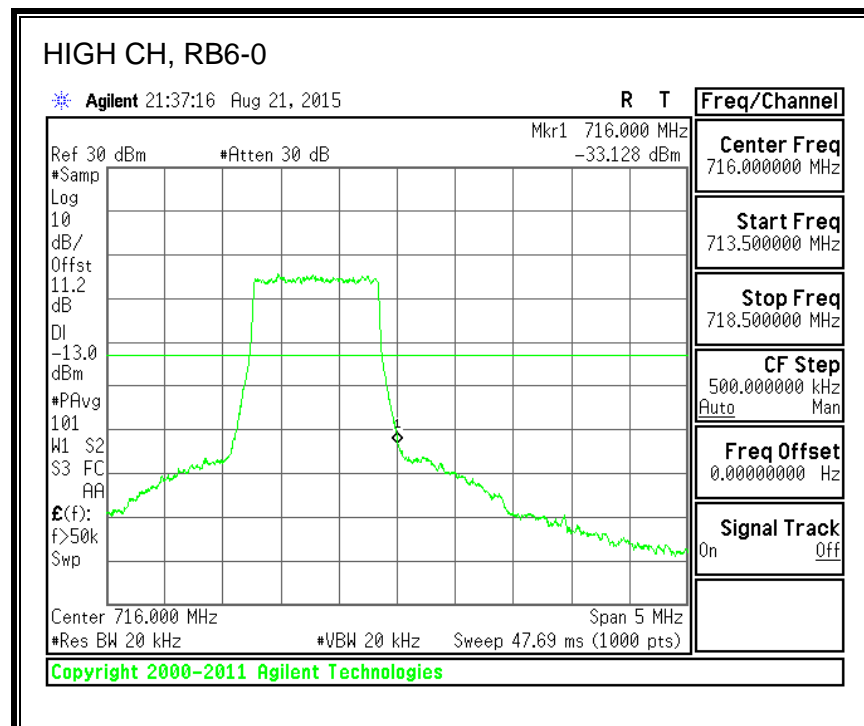
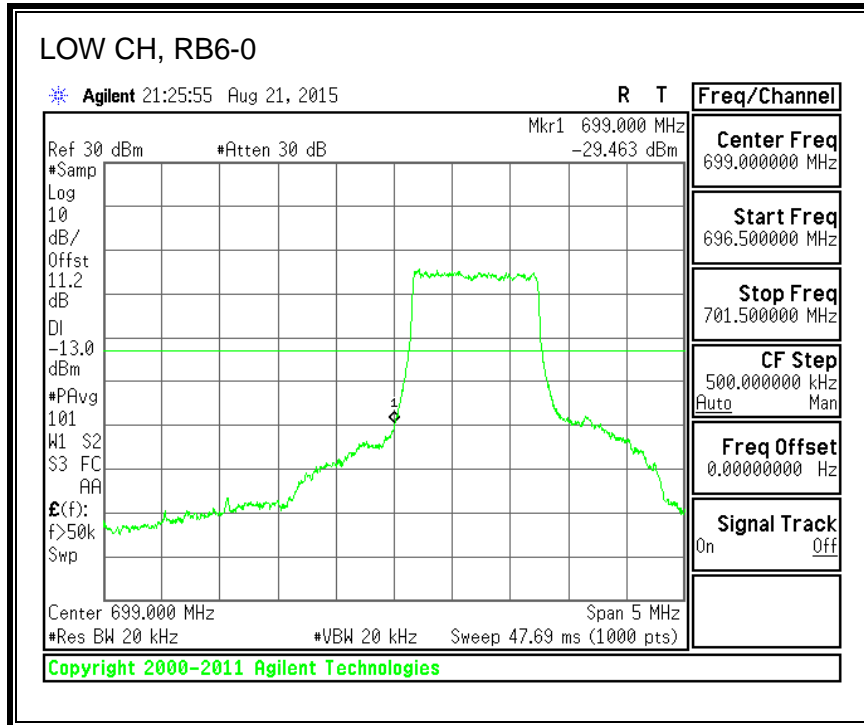


16QAM, (1.4 MHz BAND WIDTH)

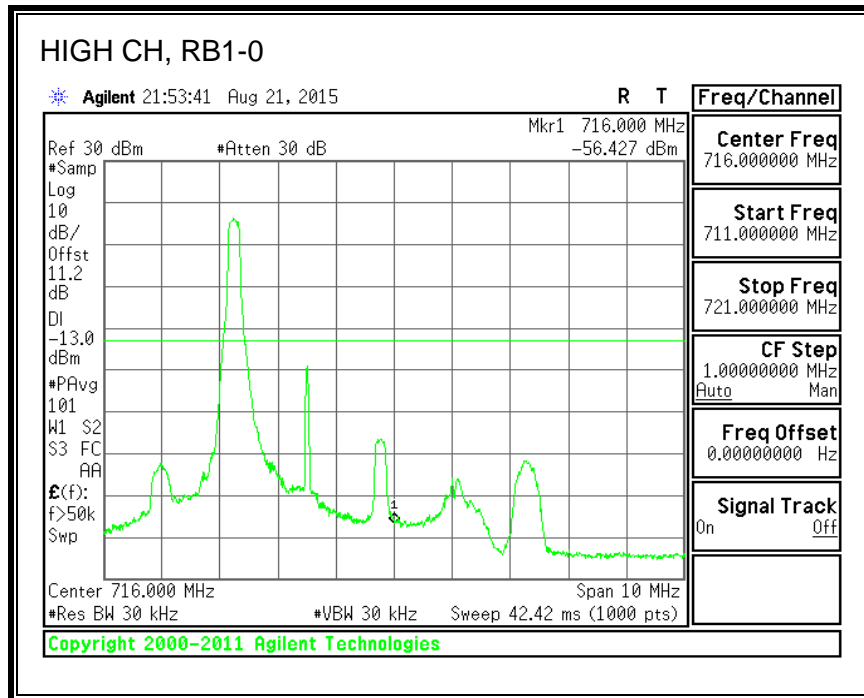
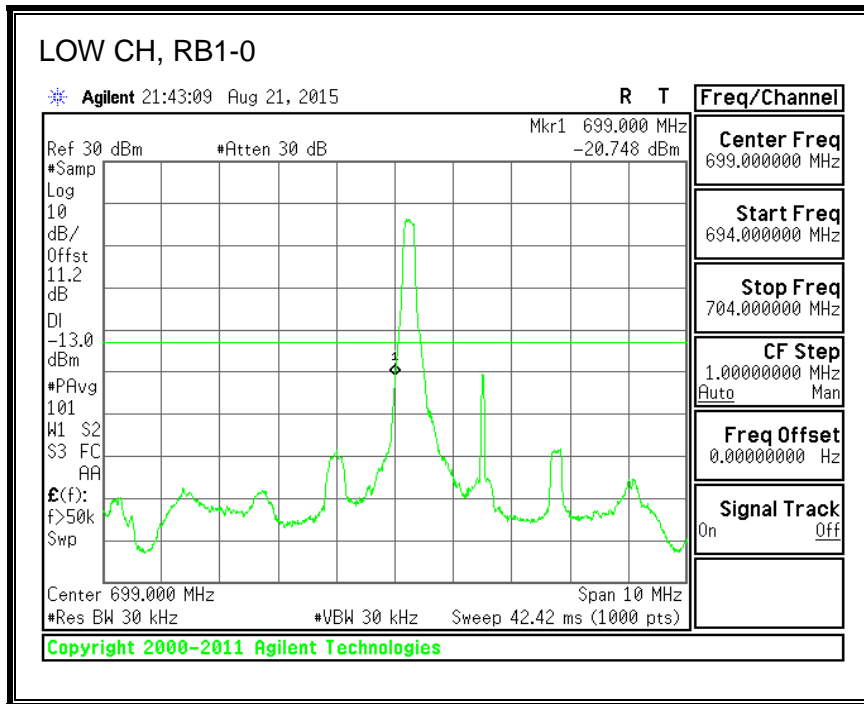


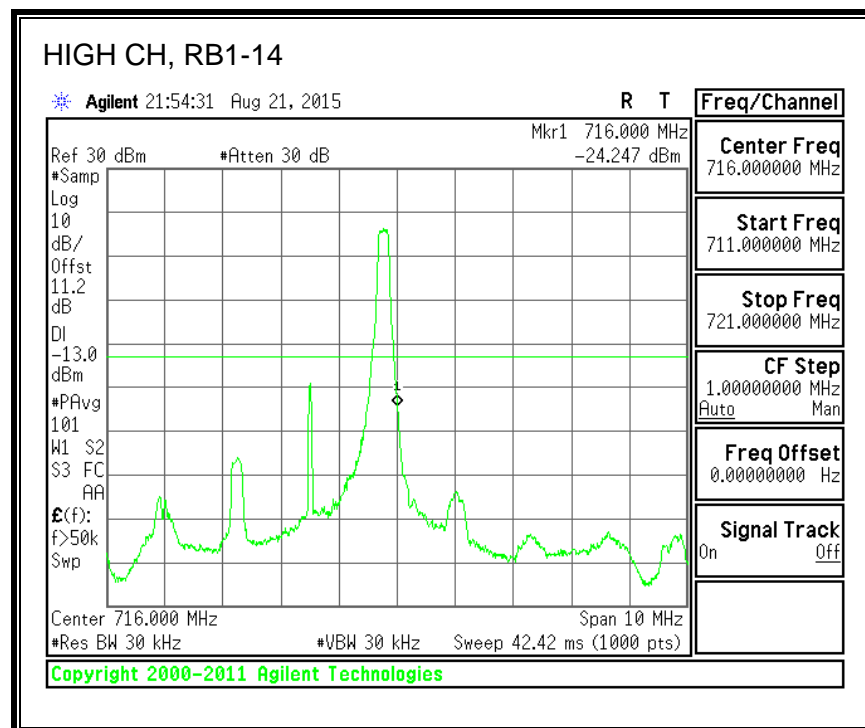
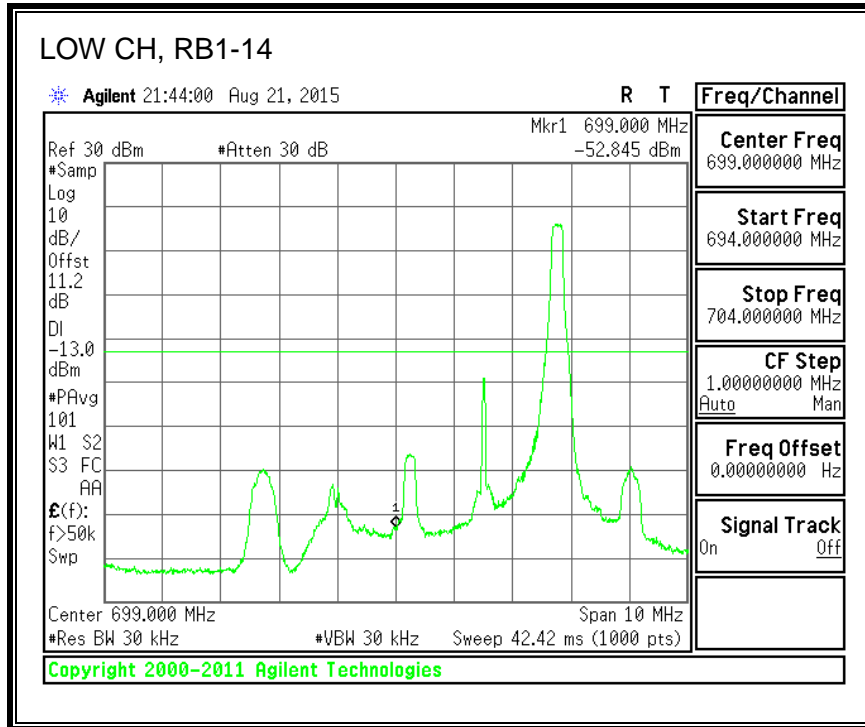


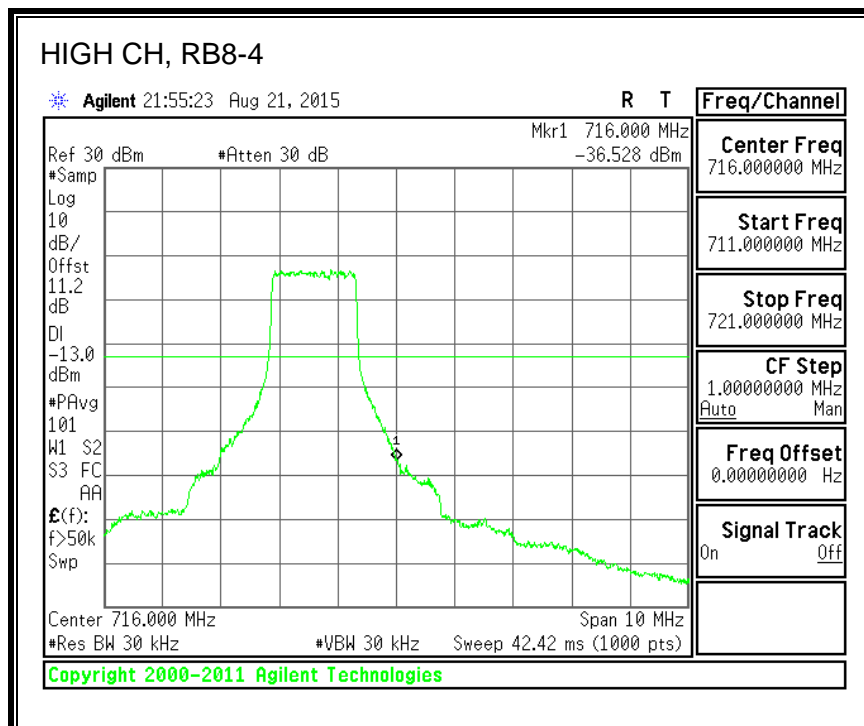
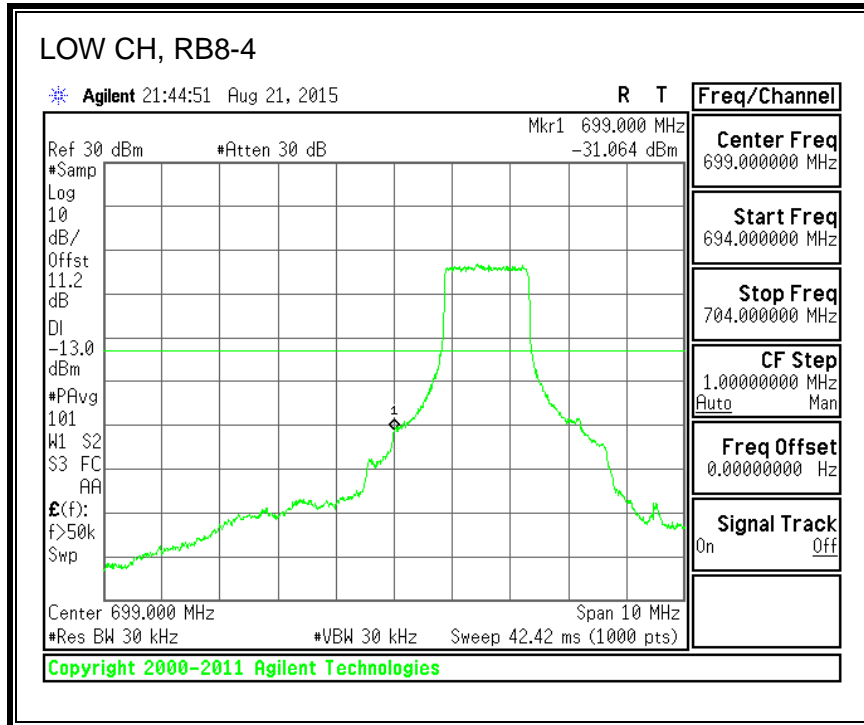


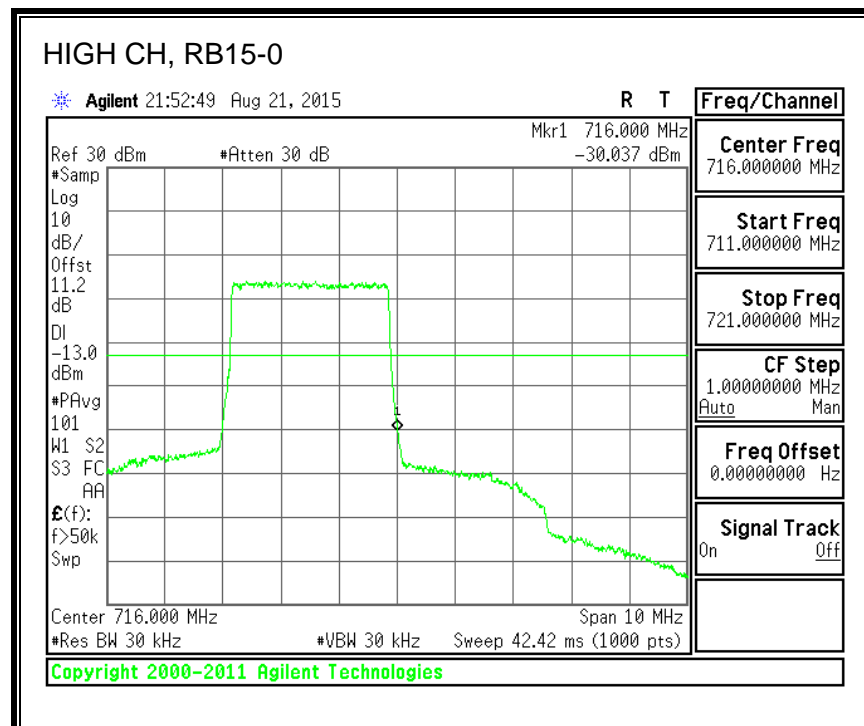
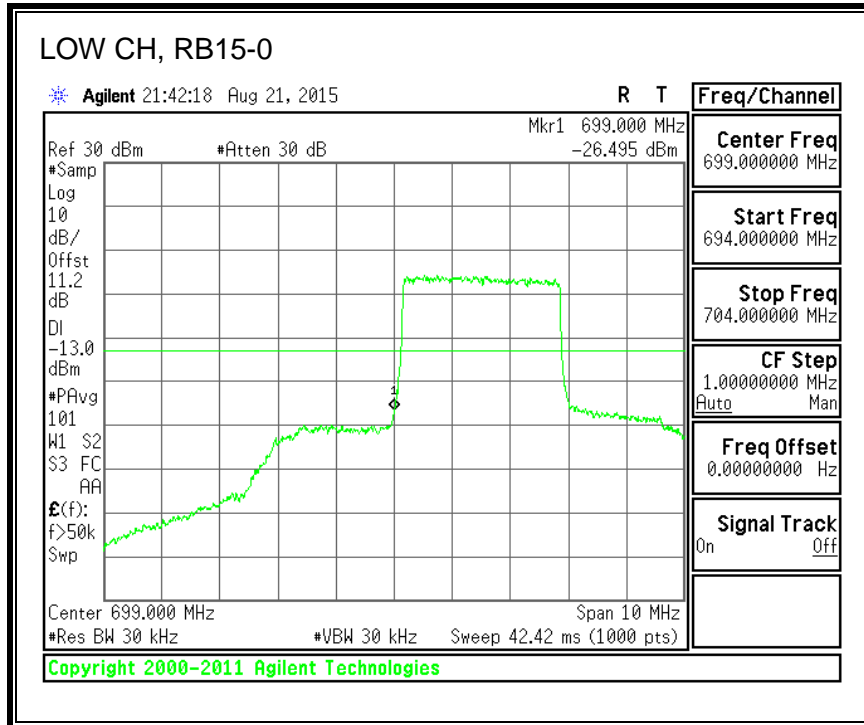


QPSK, (3.0 MHz BAND WIDTH)

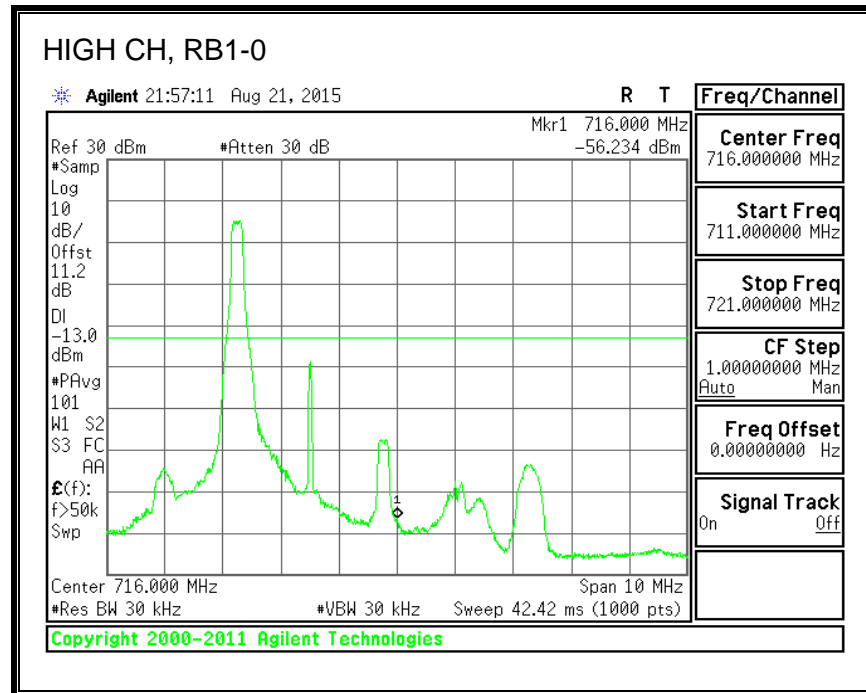
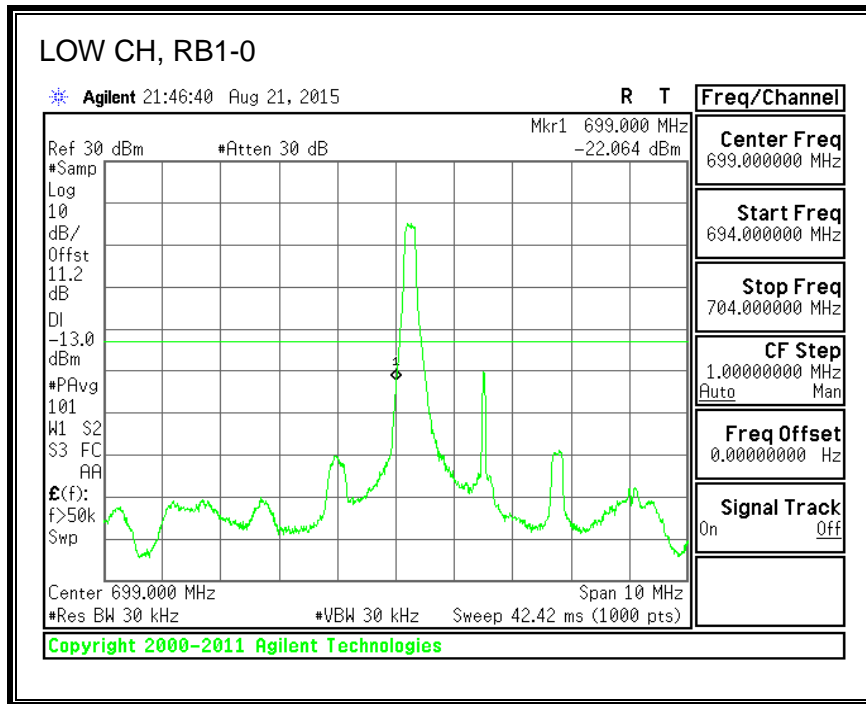


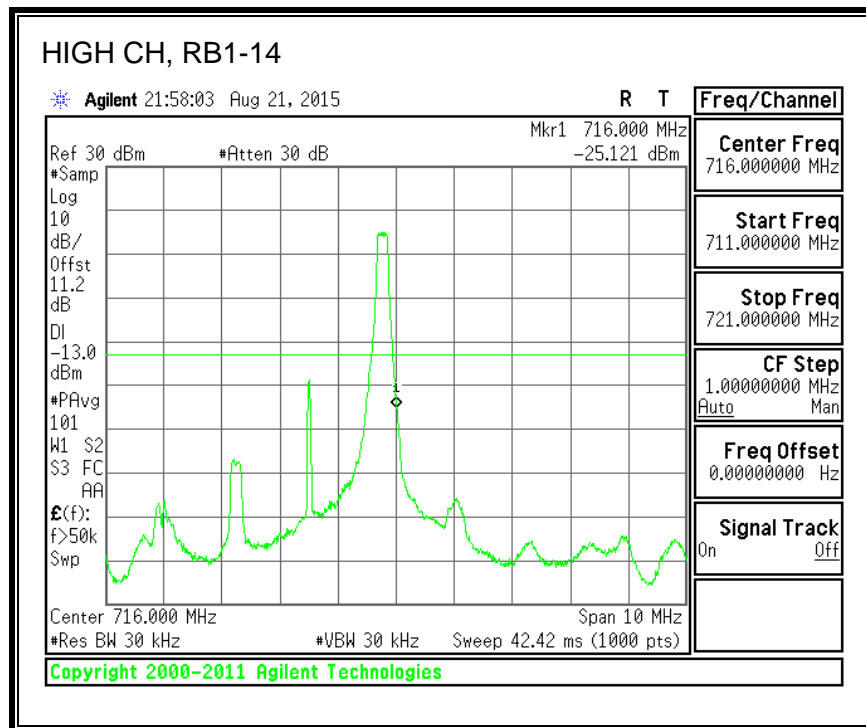
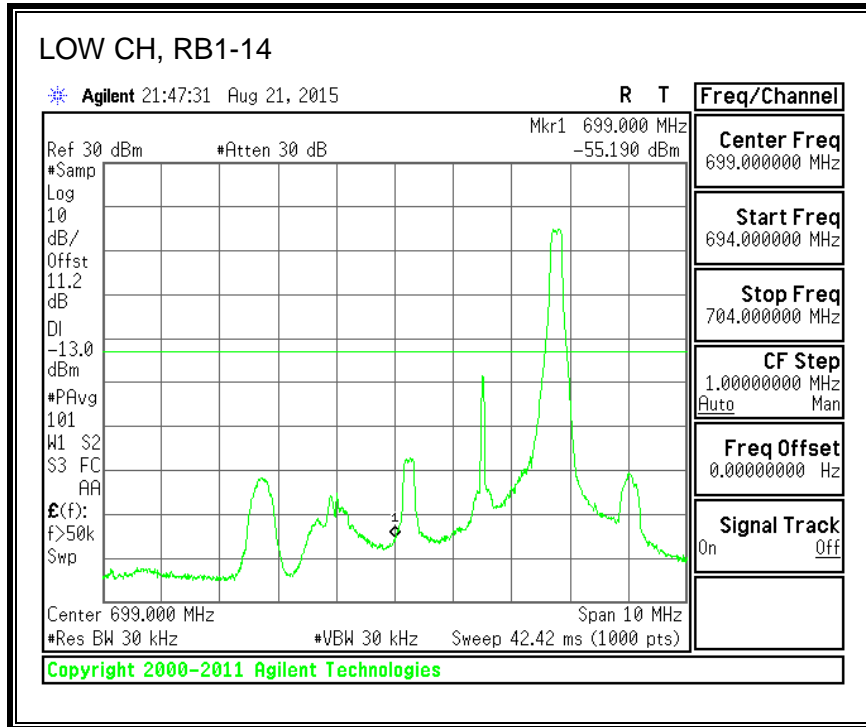


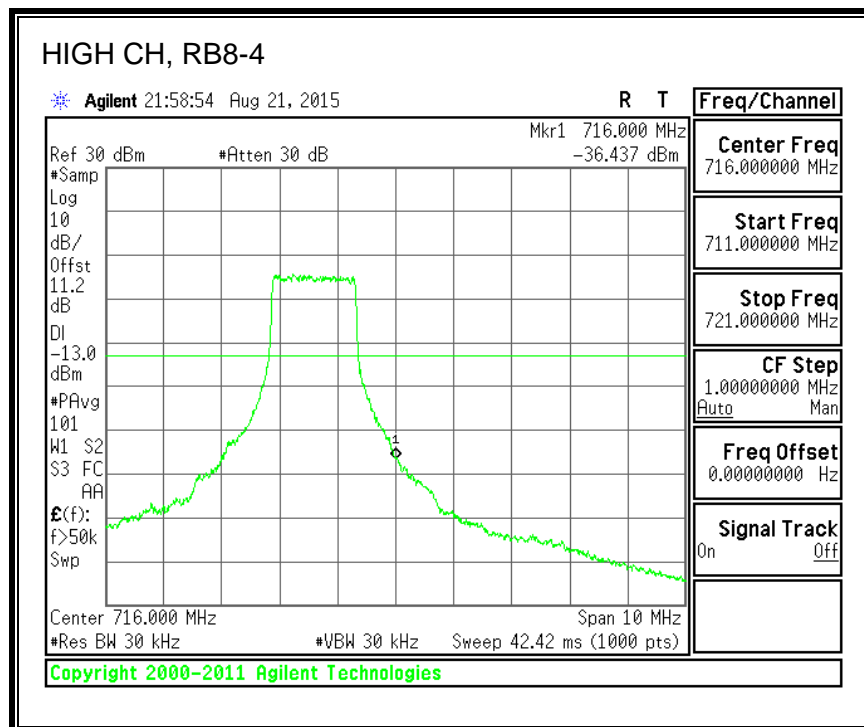
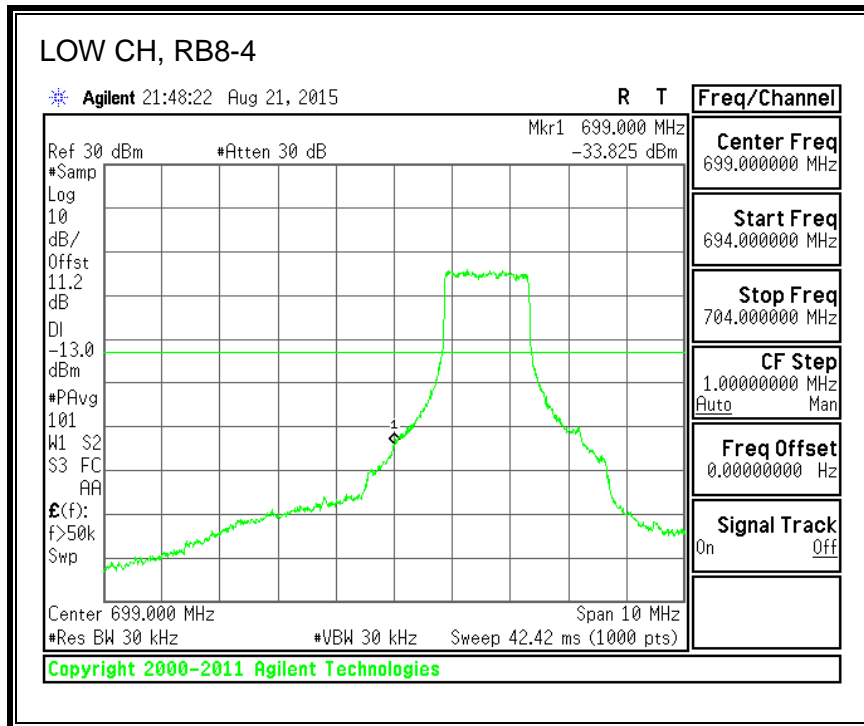


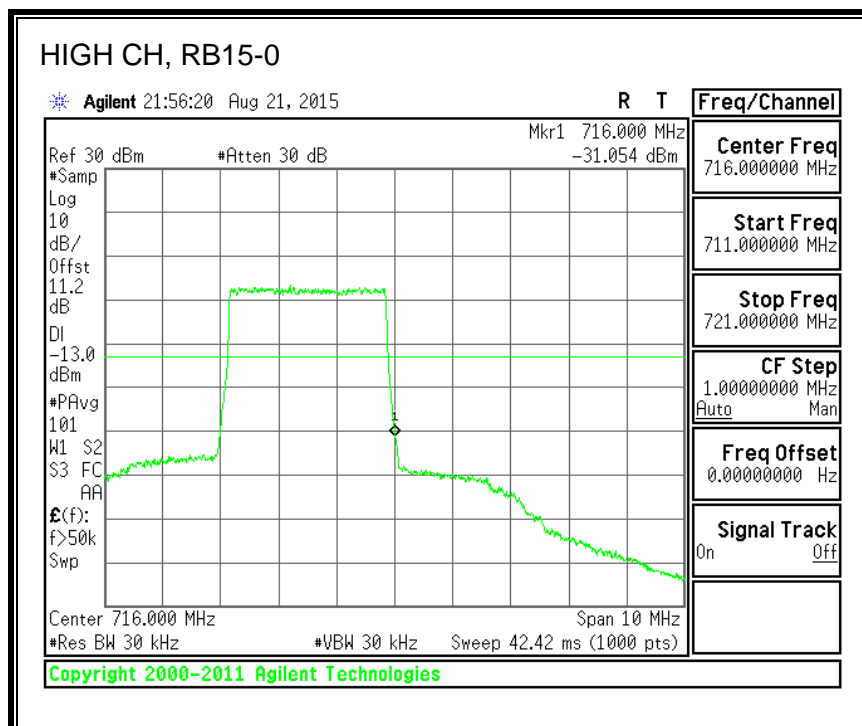
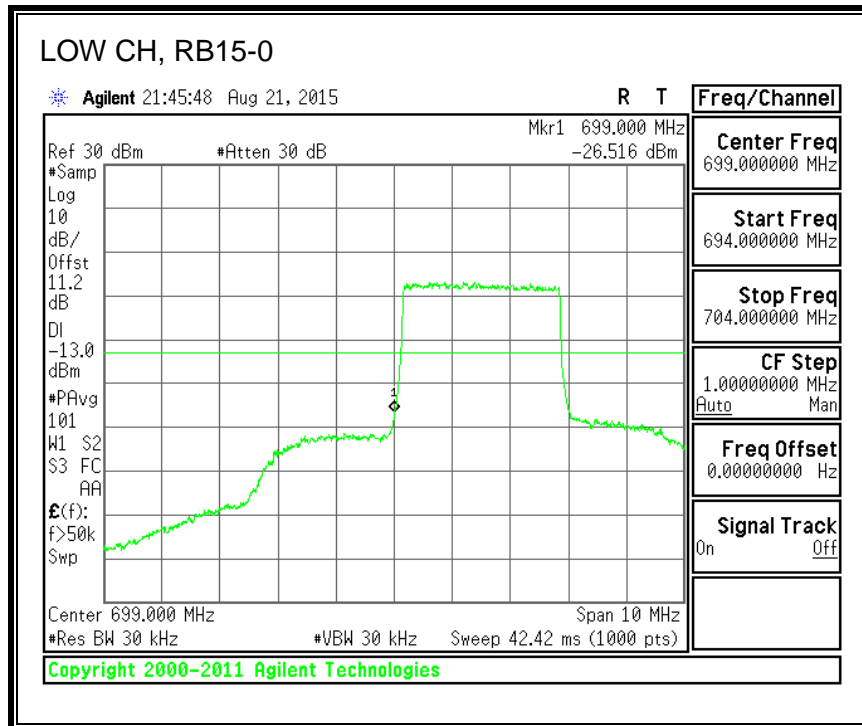


16QAM, (3.0 MHz BAND WIDTH)

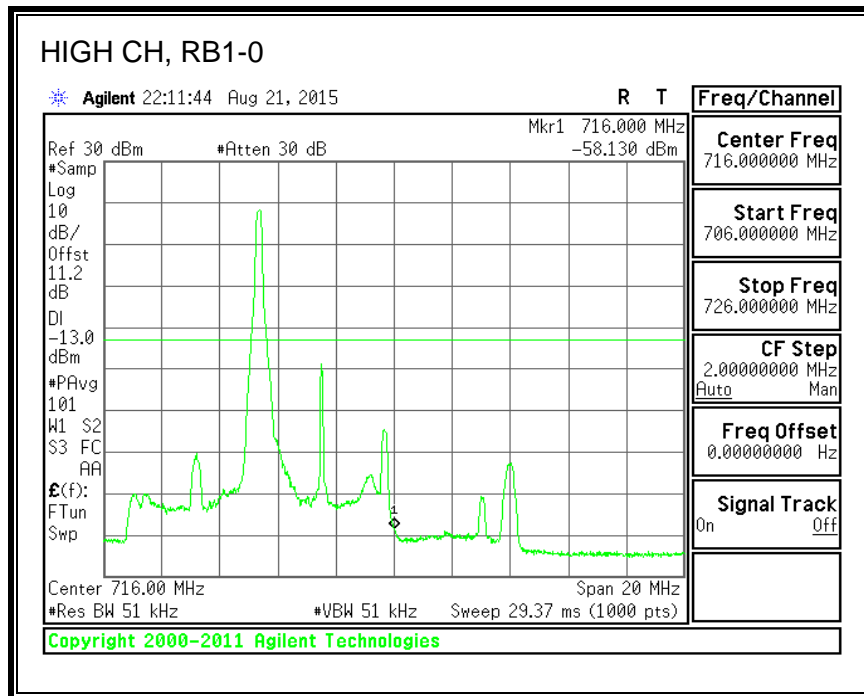
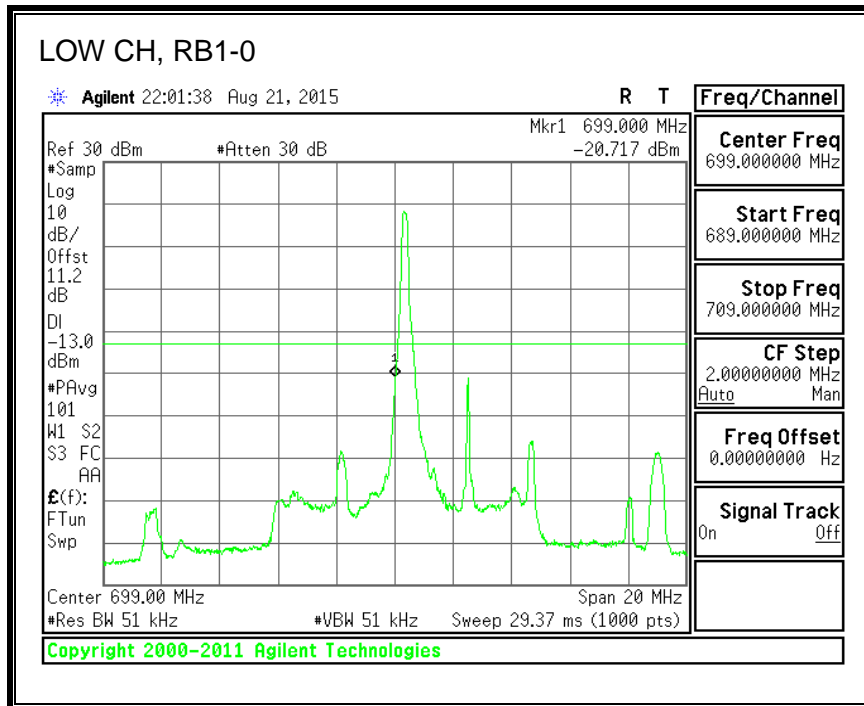


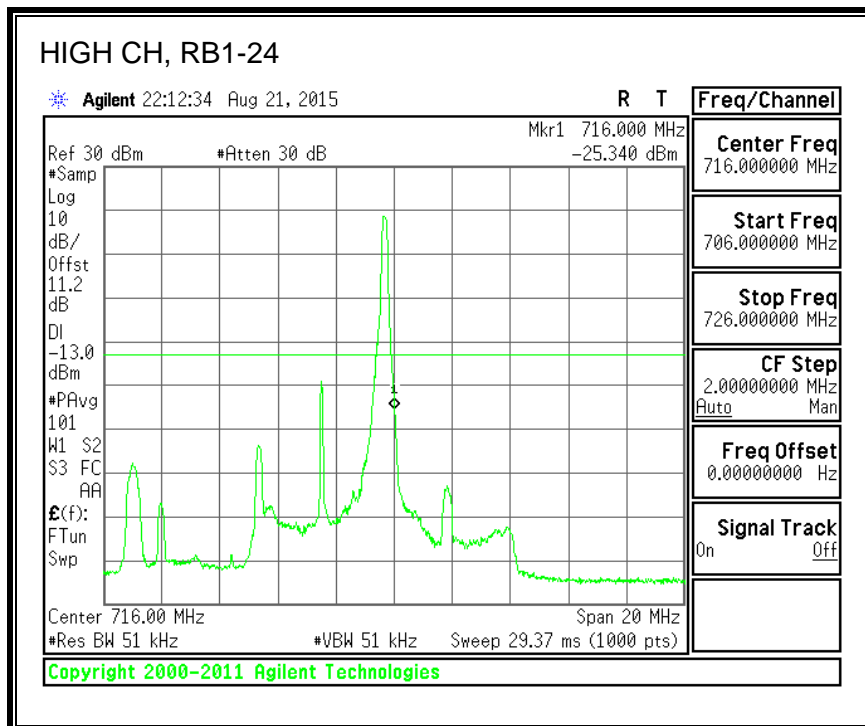
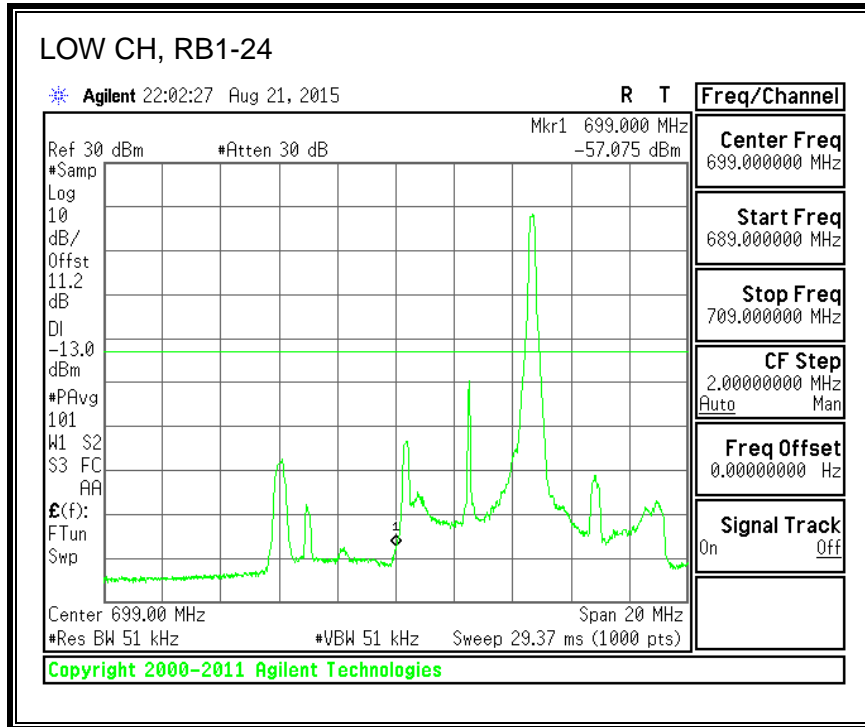


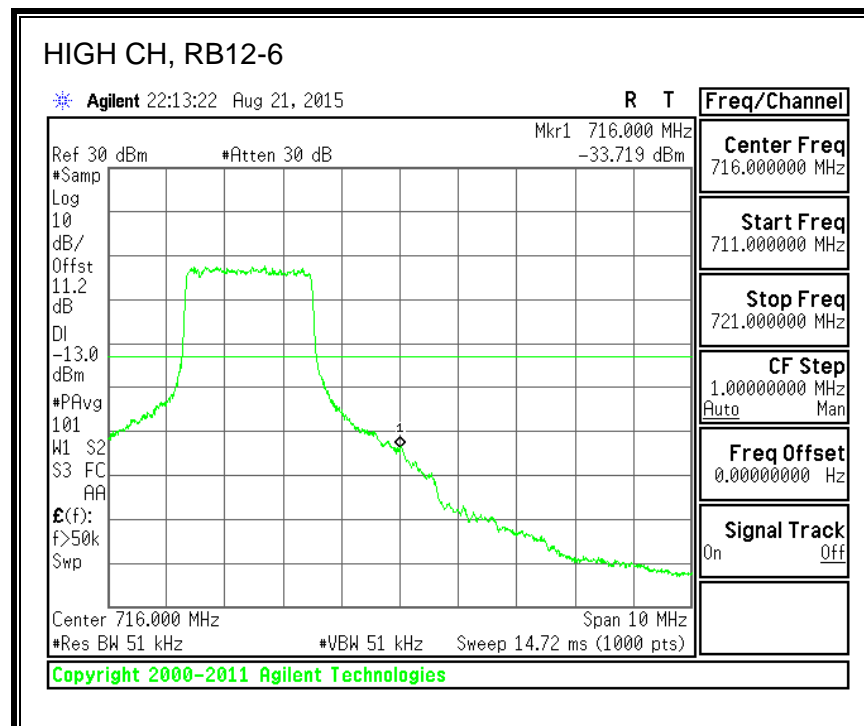
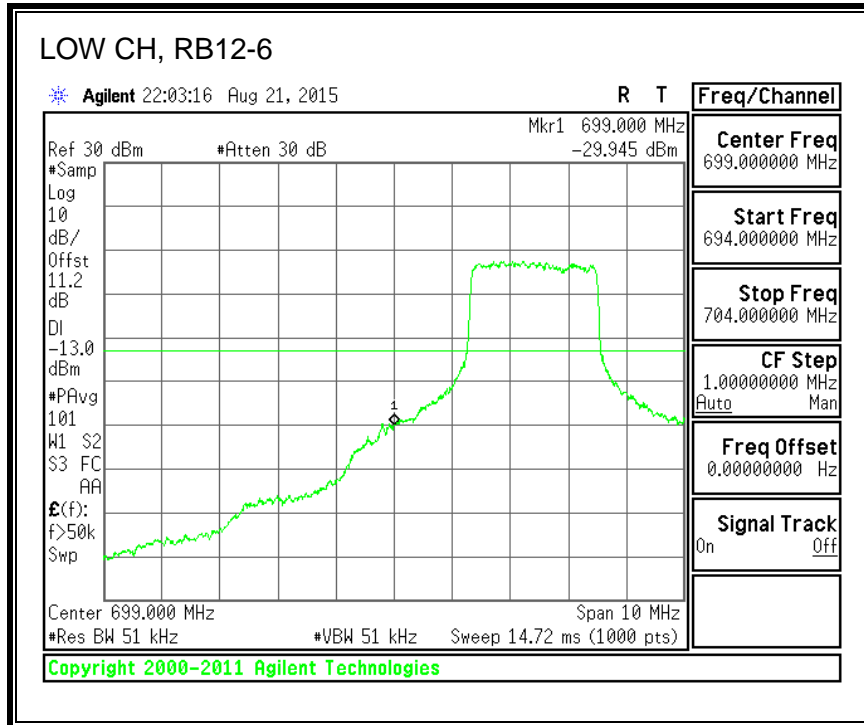


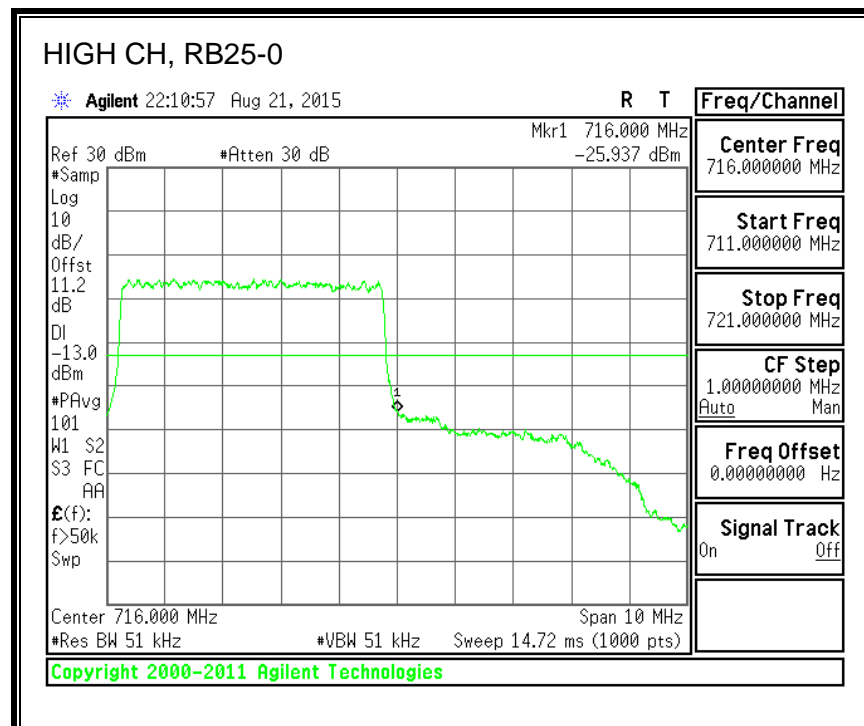
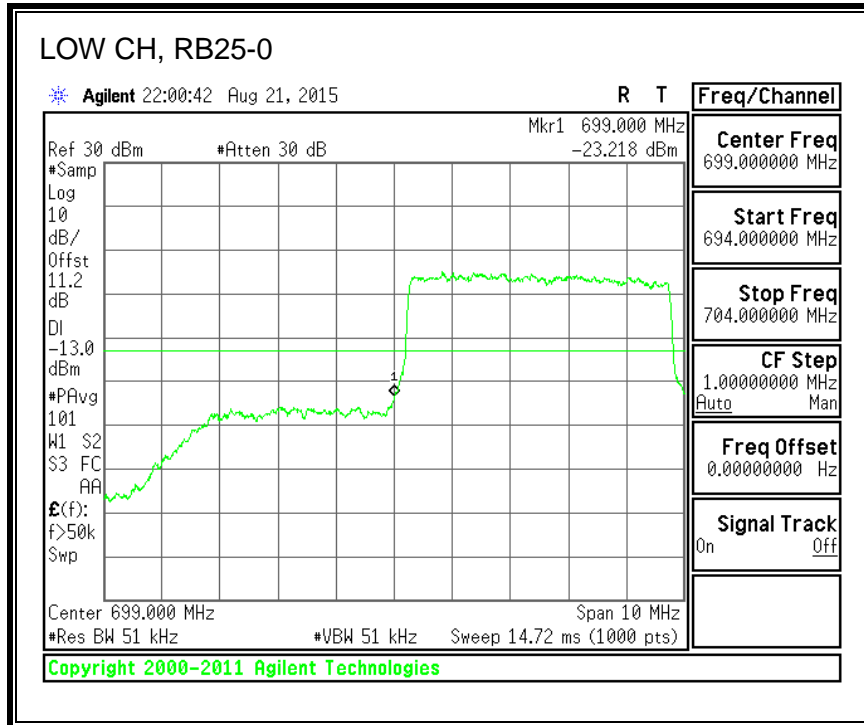


QPSK, (5.0 MHz BAND WIDTH)

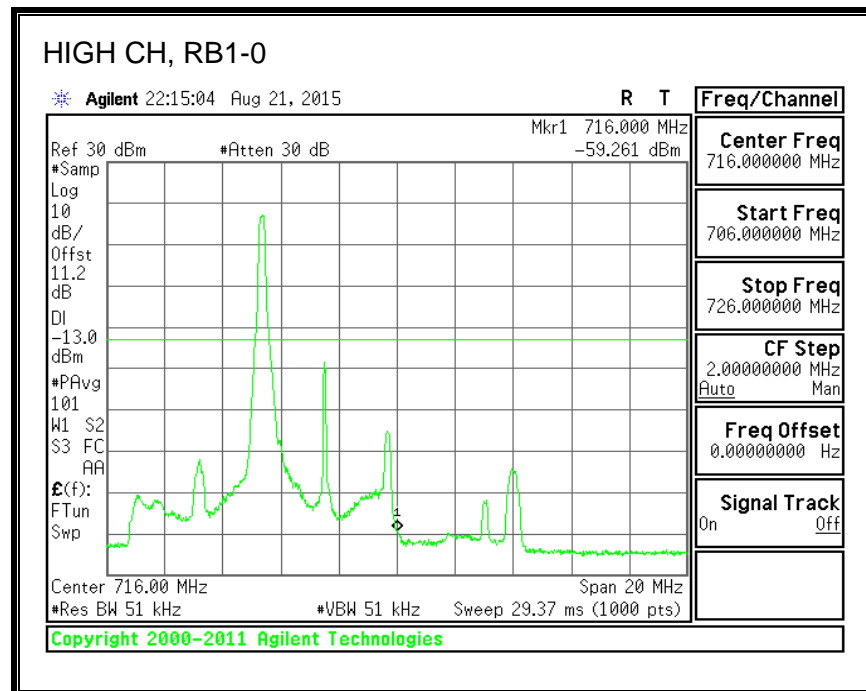
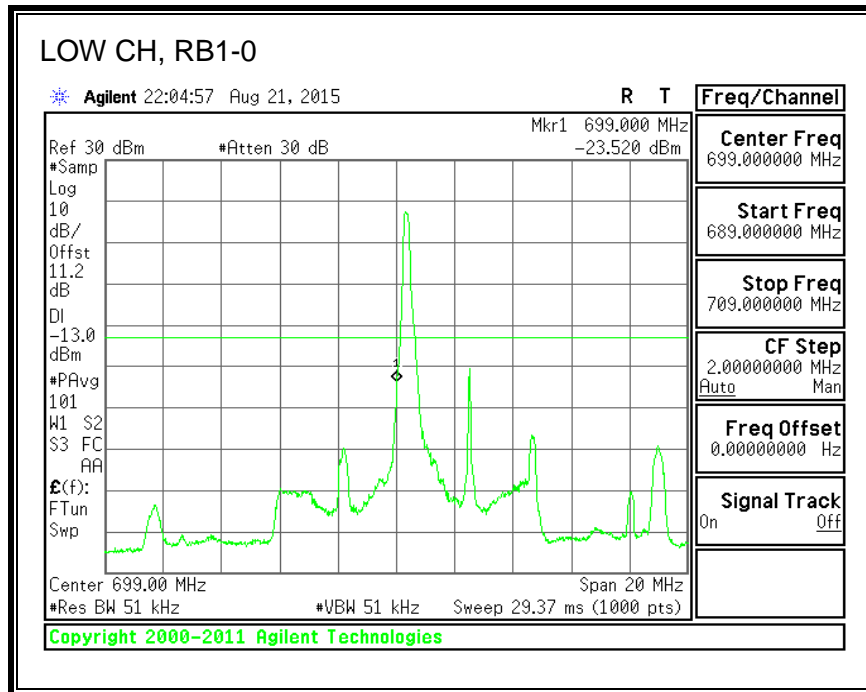


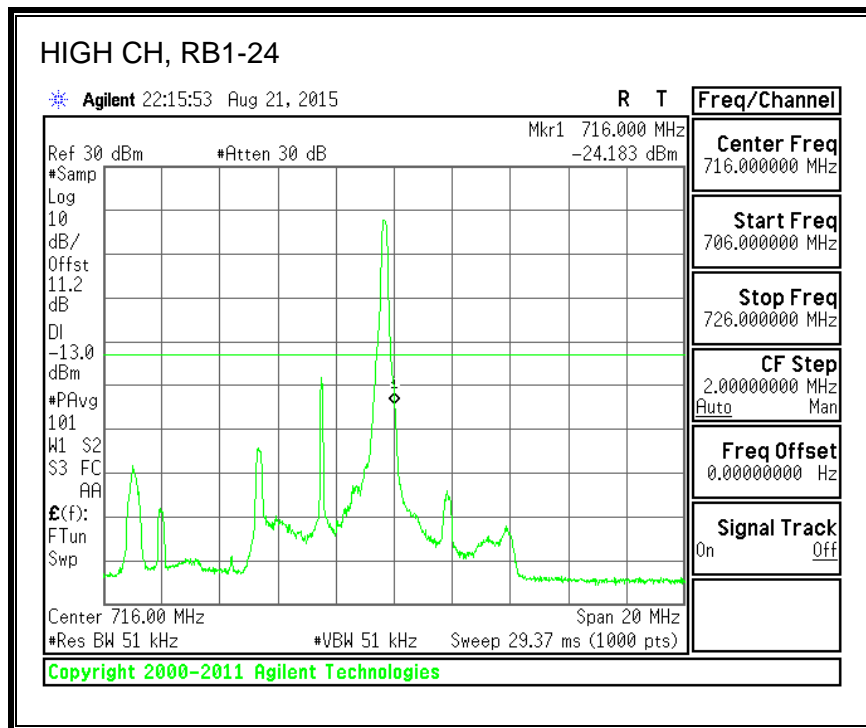
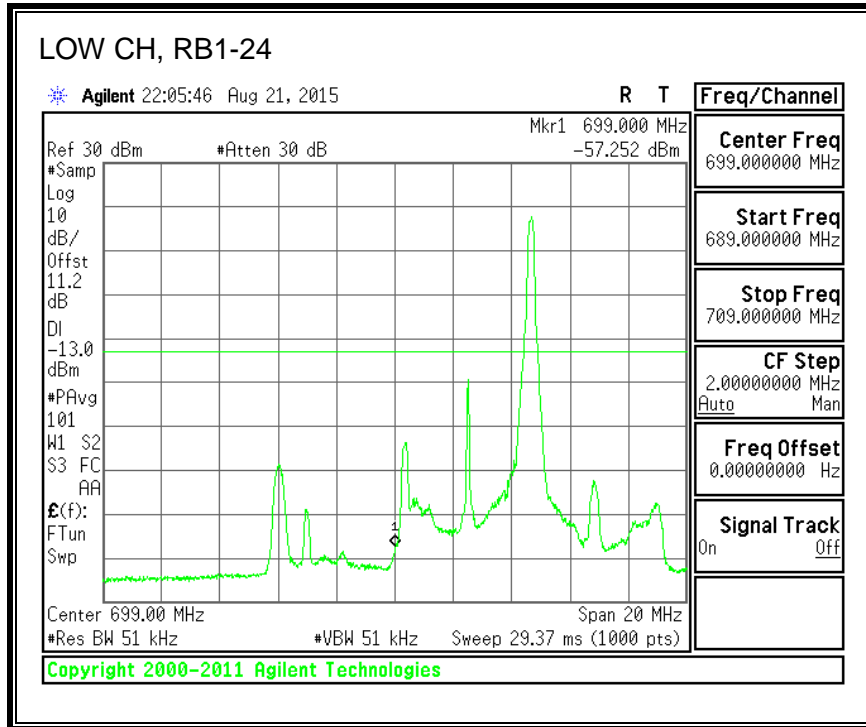


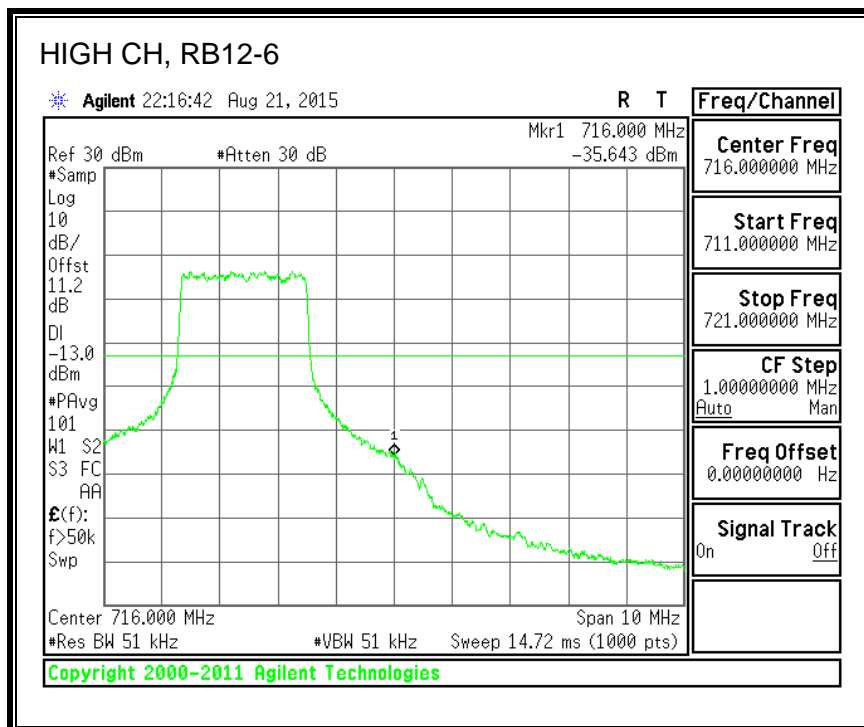
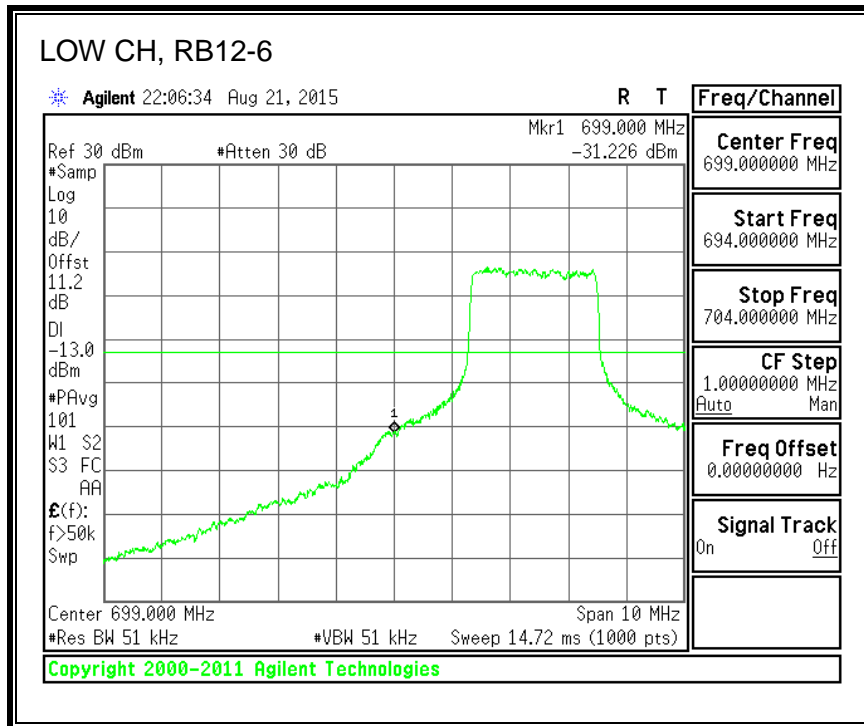


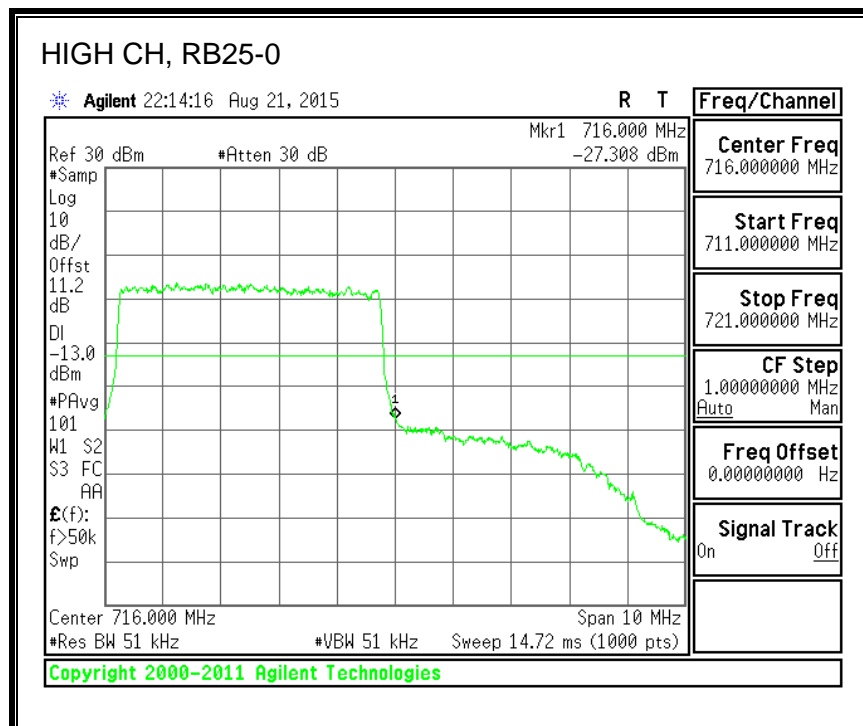
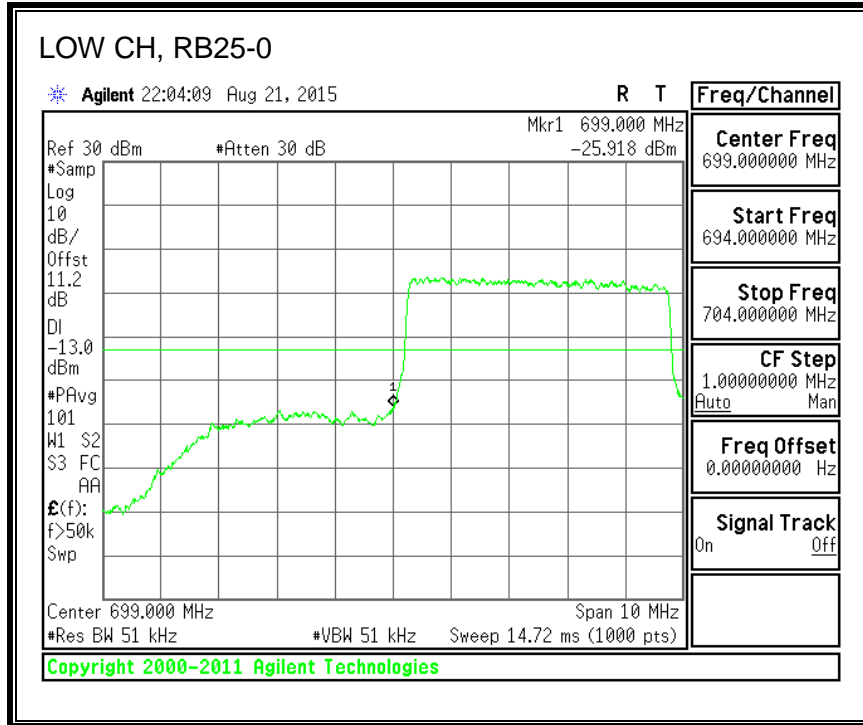


16QAM, (5.0 MHz BAND WIDTH)

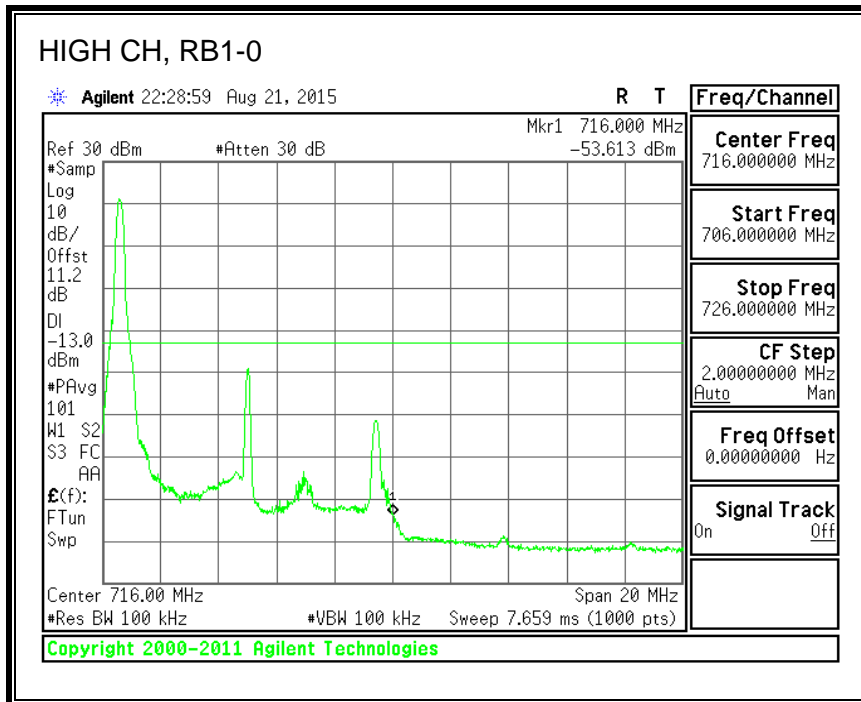
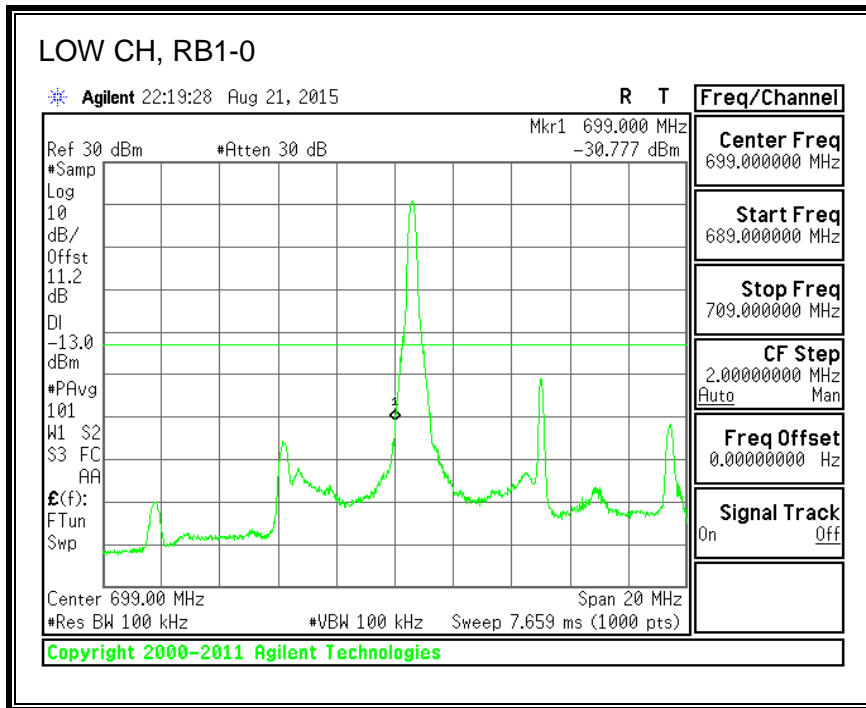


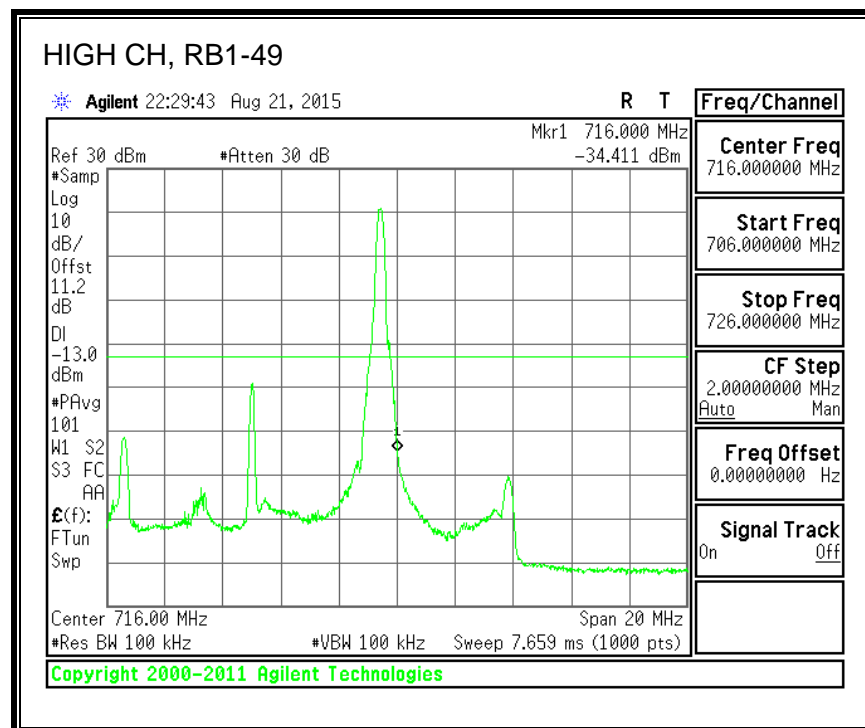
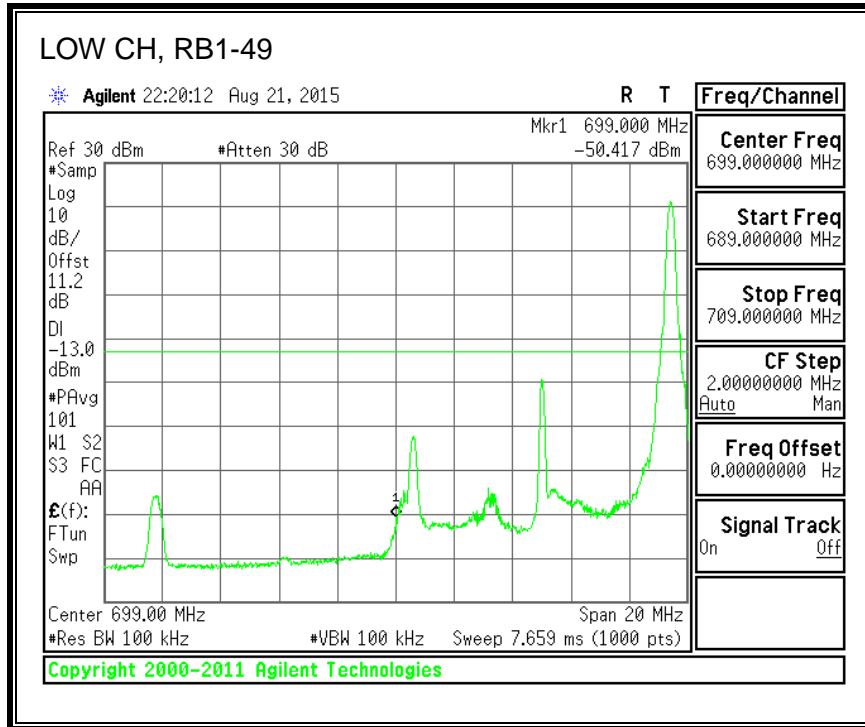


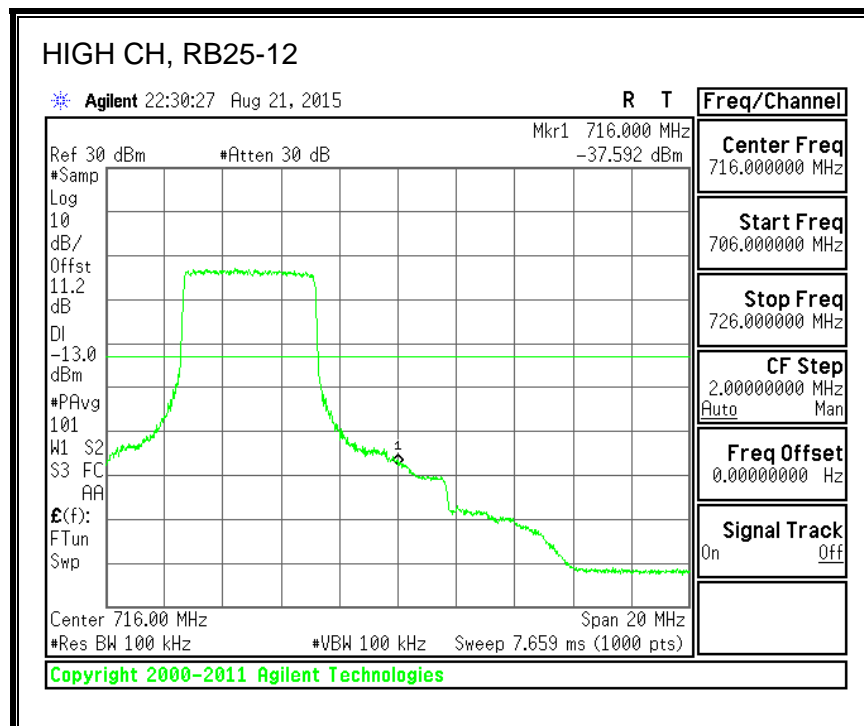
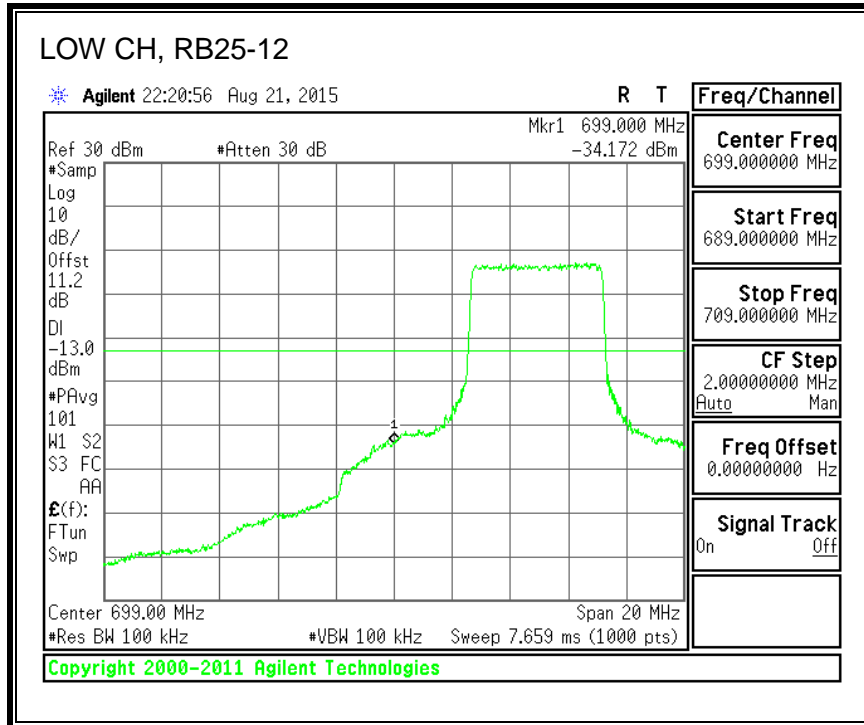


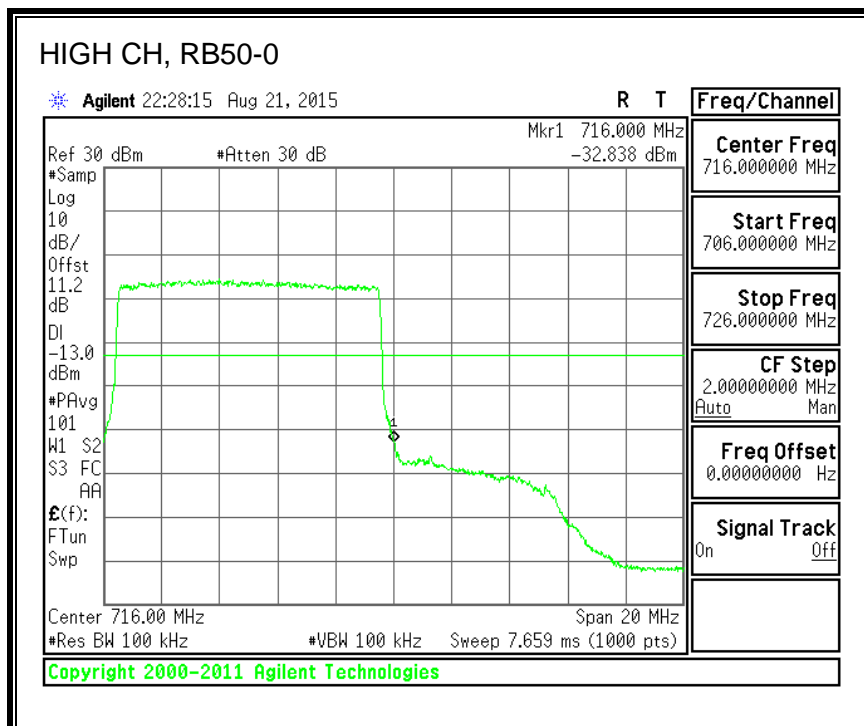
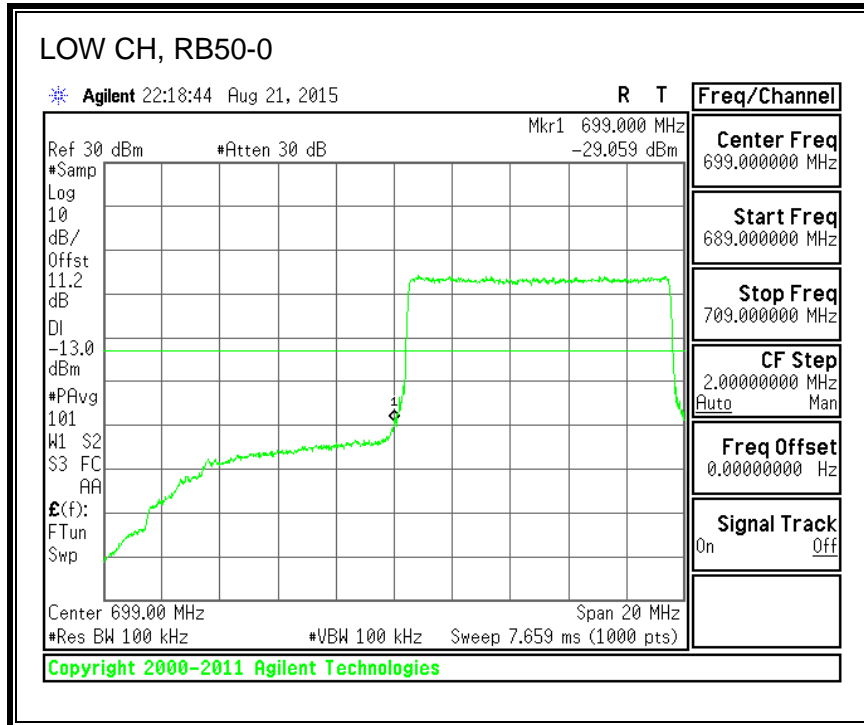


QPSK, (10.0 MHz BAND WIDTH)

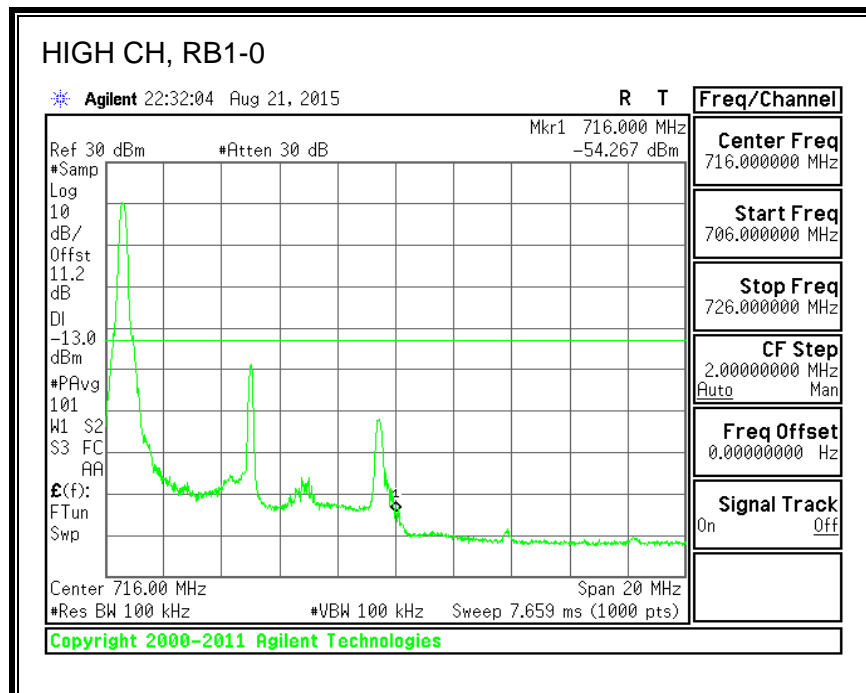
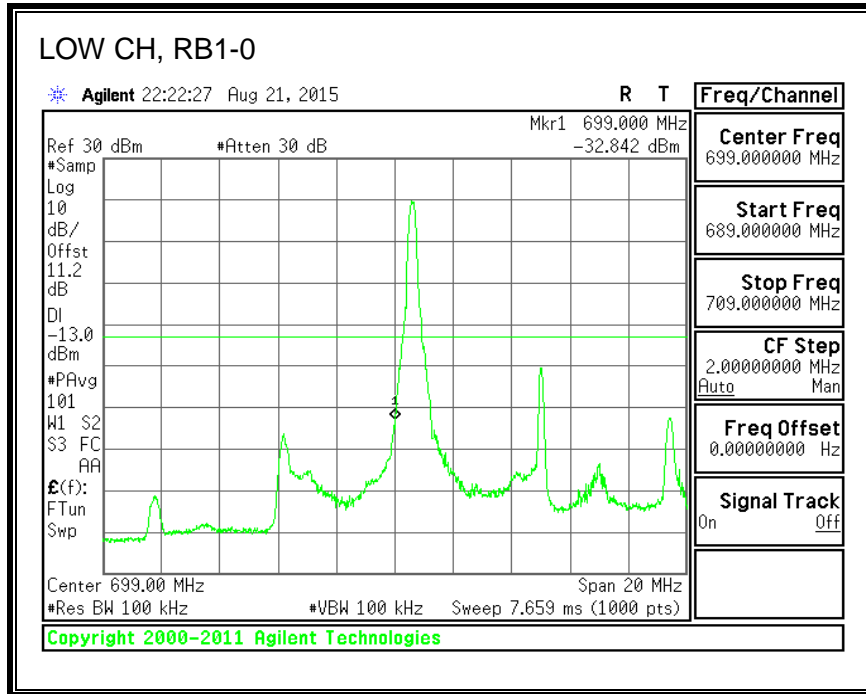


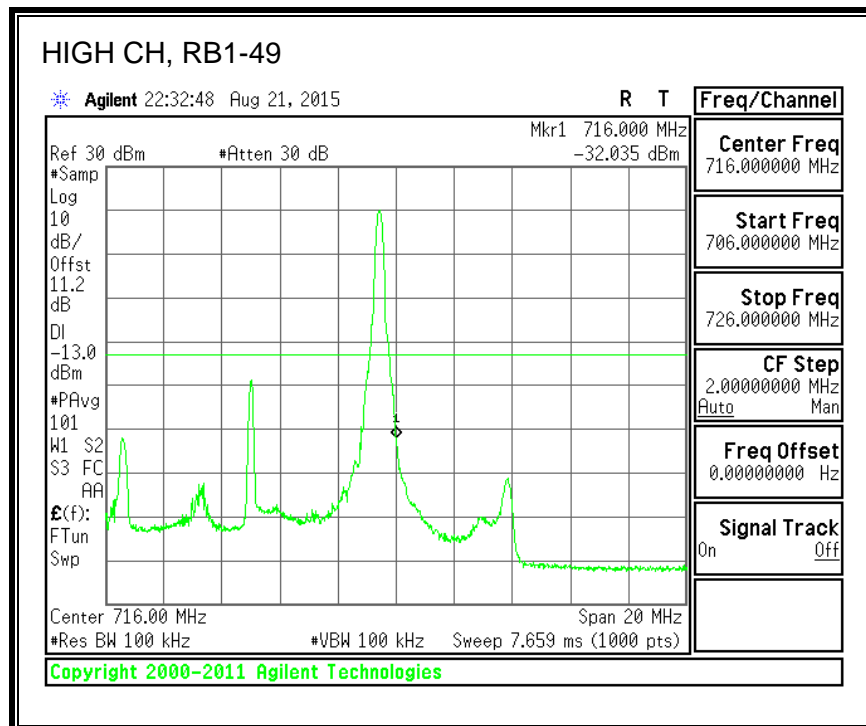
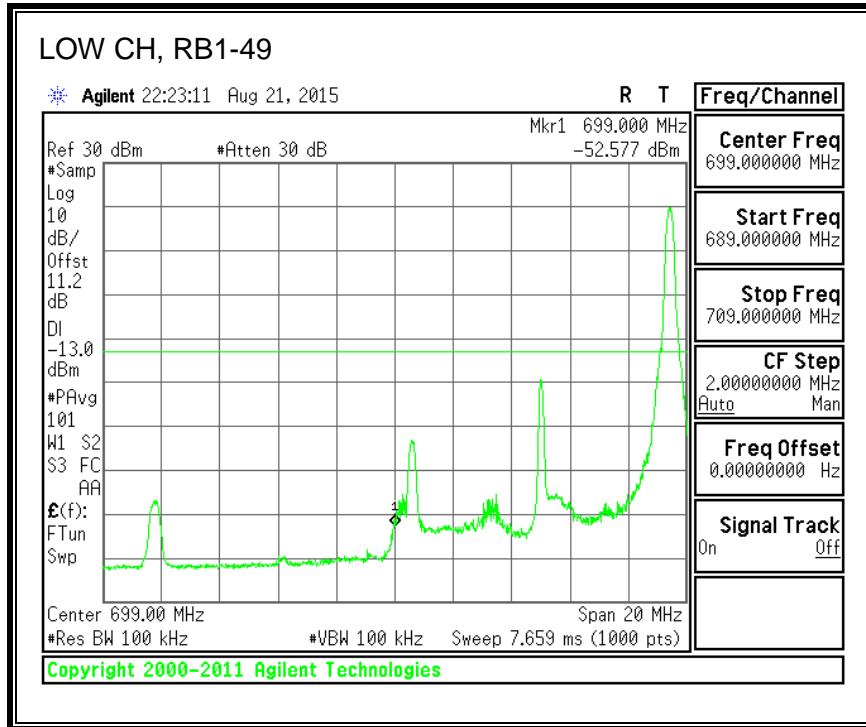


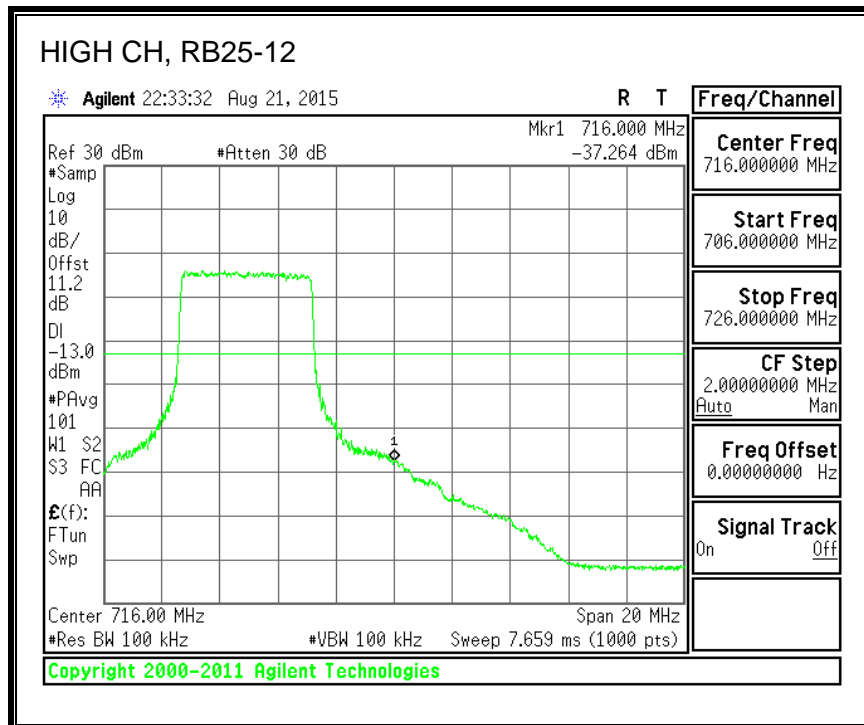
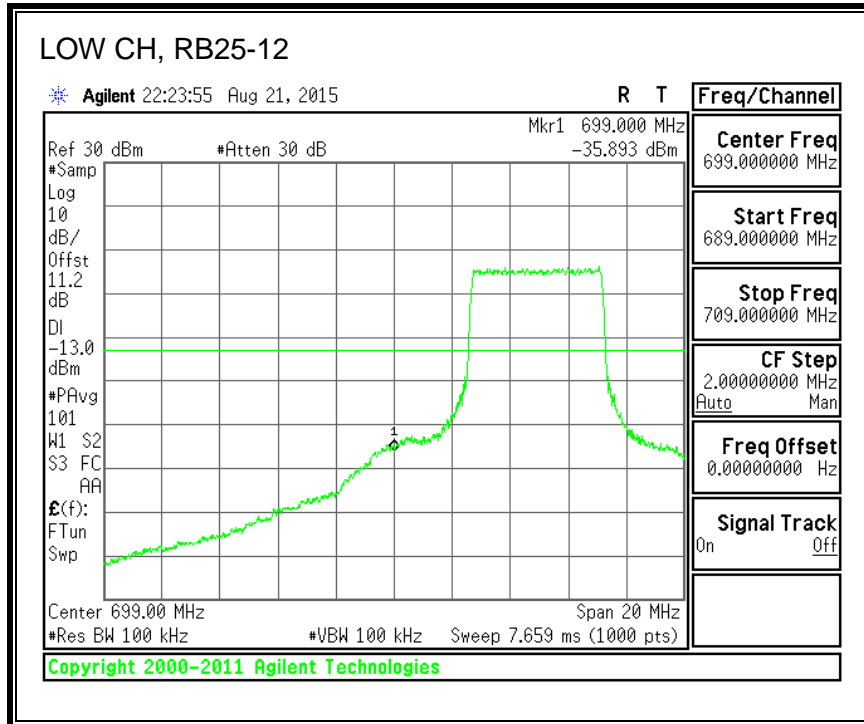


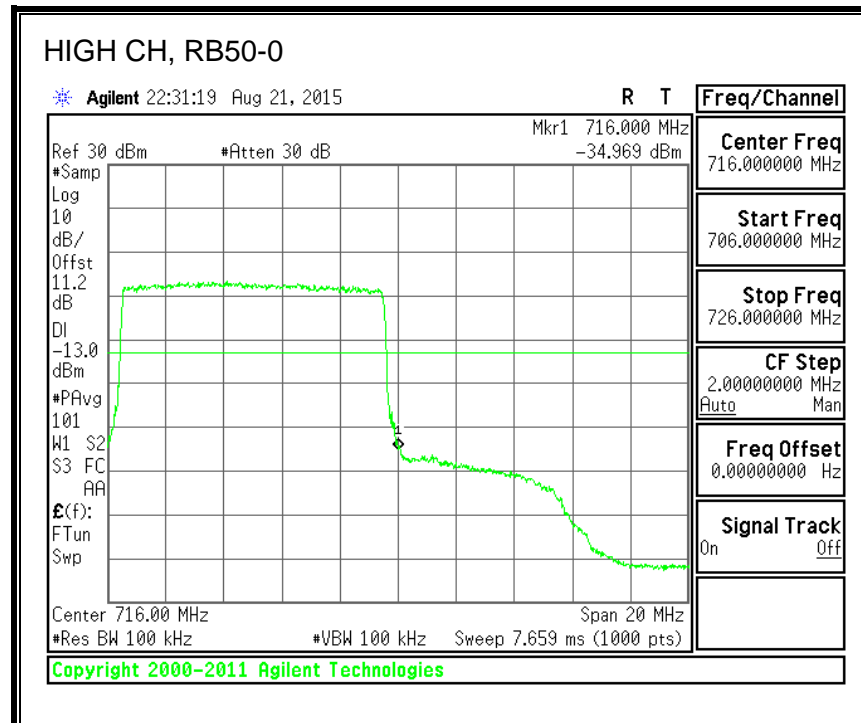
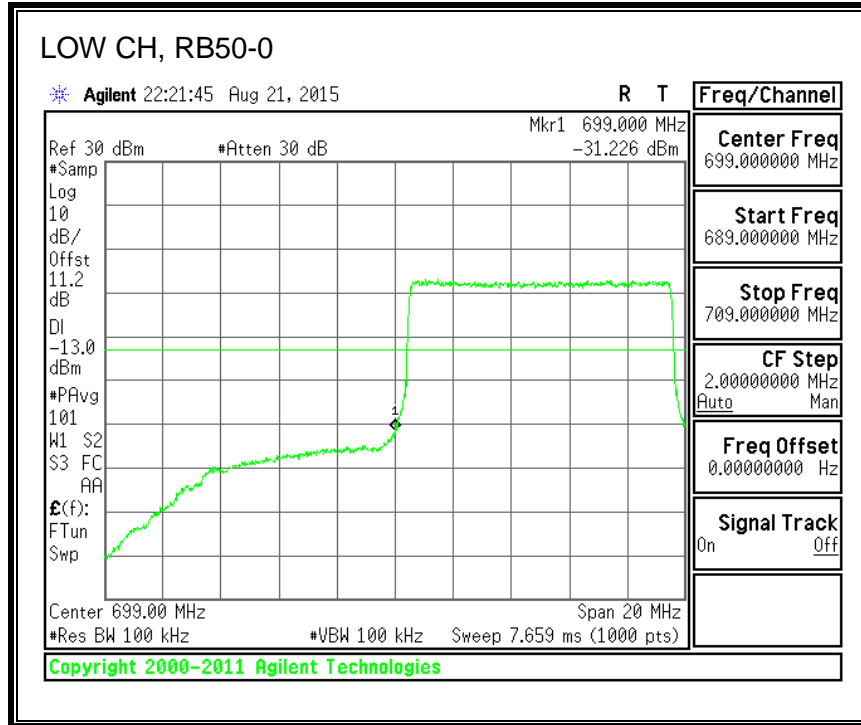


16QAM, (10.0 MHz BAND WIDTH)









8.2.5. LTE BAND 13 EMISSION MASK

QPSK, (5.0 MHz BAND WIDTH)

