



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

FOR

CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL NUMBER: A1586

FCC ID: BCG-E2816A

REPORT NUMBER: 14U17673-E17, REVISION C

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Prepared for
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A	07/29/2014	Update EUT Description	C. Pang
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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: A1586

SERIAL NUMBER: 920-5012-02 (Conducted); C39MN06LG337 (Radiated)

DATE TESTED: APRIL 20 –AUGUST 03, 2014

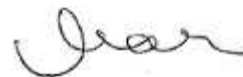
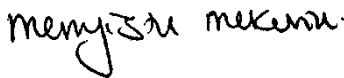
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC CFR47 PART 22H, 24E, 27 and 90S	Pass

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

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

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UL Verification Services Inc. By:

Tested By:



MENGISTU MEKURIA
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

MONA HUA
LAB ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, 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. Line conducted emissions are measured only at the 47173 address. 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 checked="" type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input checked="" type="checkbox"/> Chamber F
	<input type="checkbox"/> Chamber G
	<input type="checkbox"/> Chamber H

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

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a mobile phone with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000 1xRTT/EVDO Rev.A/ EVDO Rev.B / WCDMA /HSPA+/DC-HSDPA/LTE FDD & Carrier Aggregation/TDD/TD-SCDMA 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:

LAT OUTPUT POWER FOR LTE BAND 2

Part 24 LTE Band 2						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1910	QPSK	23.57	227.5	26.44	440.6
		16QAM	22.46	176.2	25.44	349.9
3		QPSK	23.63	230.7	26.64	461.3
		16QAM	22.45	175.8	25.54	358.1
5		QPSK	23.54	225.9	26.34	430.5
		16QAM	22.55	179.9	25.54	358.1
10		QPSK	23.56	227.0	26.54	450.8
		16QAM	22.55	179.9	25.64	366.4
15		QPSK	23.58	228.0	26.82	480.8
		16QAM	22.37	172.6	26.02	399.9
20	QPSK	23.63	230.7	27.02	503.5	
	16QAM	22.35	171.8	26.32	428.5	

UAT OUTPUT POWER FOR LTE BAND 2

Part 24 LTE Band 2						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1910	QPSK	23.28	212.8	21.04	127.1
		16QAM	22.30	169.8	20.17	104.0
3		QPSK	23.28	212.8	21.30	134.9
		16QAM	22.14	163.7	20.36	108.6
5		QPSK	23.25	211.3	20.68	116.9
		16QAM	22.37	172.6	20.36	108.6
10		QPSK	23.24	210.9	21.33	135.8
		16QAM	22.18	165.2	20.63	115.6
15		QPSK	23.34	215.8	21.01	126.2
		16QAM	22.14	163.7	20.43	110.4
20	QPSK	23.33	215.3	20.86	121.9	
	16QAM	22.11	162.6	19.84	96.4	

LAT OUTPUT POWER FOR LTE BAND 4

Part 27 LTE Band 4						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1710 - 1755	QPSK	23.99	250.6	24.46	279.3
		16QAM	22.98	198.6	23.56	227.0
3		QPSK	23.98	250.0	24.86	306.2
		16QAM	22.89	194.5	23.76	237.7
5		QPSK	23.97	249.5	24.89	308.3
		16QAM	22.99	199.1	24.07	255.3
10		QPSK	23.99	250.6	25.01	317.0
		16QAM	22.91	195.4	23.87	243.8
15		QPSK	23.88	244.3	25.38	345.1
		16QAM	22.85	192.8	24.49	281.2
20	QPSK	23.96	248.9	25.23	333.4	
	16QAM	22.83	191.9	24.26	266.7	

UAT OUTPUT POWER FOR LTE BAND 4

Part 27 LTE Band 4						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1710 - 1755	QPSK	23.00	199.5	20.13	103.0
		16QAM	22.04	160.0	19.43	87.7
3		QPSK	22.93	196.3	20.13	103.0
		16QAM	21.97	157.4	19.43	87.7
5		QPSK	22.96	197.7	20.63	115.6
		16QAM	22.08	161.4	19.75	94.4
10		QPSK	22.91	195.4	20.83	121.1
		16QAM	21.81	151.7	19.90	97.7
15		QPSK	22.95	197.2	21.23	132.7
		16QAM	21.85	153.1	20.53	113.0
20	QPSK	23.10	204.2	20.85	121.6	
	16QAM	21.89	154.5	19.95	98.9	

LAT OUTPUT POWER FOR LTE BAND 5

Part 22 LTE Band 5								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	824 - 849	QPSK	23.94	247.7	19.43	87.7	21.58	143.9
		16QAM	22.62	182.8	18.47	70.3	20.62	115.3
3		QPSK	23.86	243.2	19.89	97.5	22.04	160.0
		16QAM	22.69	185.8	18.87	77.1	21.02	126.5
5		QPSK	23.87	243.8	19.55	90.2	21.70	147.9
		16QAM	22.70	186.2	18.63	72.9	20.78	119.7
10		QPSK	24.00	251.2	19.60	91.2	21.75	149.6
		16QAM	22.68	185.4	18.54	71.4	20.69	117.2

UAT OUTPUT POWER FOR LTE BAND 5

Part 22 LTE Band 5								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	824 - 849	QPSK	23.60	229.1	18.27	67.1	20.42	110.2
		16QAM	22.70	186.2	17.38	54.7	19.53	89.7
3		QPSK	23.57	227.5	18.52	71.1	20.67	116.7
		16QAM	22.53	179.1	17.77	59.8	19.92	98.2
5		QPSK	23.57	227.5	18.68	73.8	20.83	121.1
		16QAM	22.68	185.4	17.37	54.6	19.52	89.5
10		QPSK	23.54	225.9	18.70	74.1	20.85	121.6
		16QAM	22.50	177.8	17.24	53.0	19.39	86.9

LAT OUTPUT POWER FOR LTE BAND 13

Part 27 LTE Band 13								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
5	777 - 787	QPSK	23.77	238.2	18.18	65.8	20.33	107.9
		16QAM	22.77	189.2	17.13	51.6	19.28	84.7
10		QPSK	23.87	243.8	17.91	61.8	20.06	101.4
		16QAM	22.78	189.7	16.87	48.6	19.02	79.8

UAT OUTPUT POWER FOR LTE BAND 13

Part 27 LTE Band 13								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
5	777 - 787	QPSK	23.61	229.6	17.69	58.7	19.84	96.4
		16QAM	22.68	185.4	16.22	41.9	18.37	68.7
10		QPSK	23.61	229.6	17.22	52.7	19.37	86.5
		16QAM	22.54	179.5	16.22	41.9	18.37	68.7

LAT OUTPUT POWER FOR LTE BAND 17

Part 27 LTE Band 17								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
5	704 - 716	QPSK	23.90	245.5	18.48	70.5	20.63	115.6
		16QAM	22.80	190.5	17.45	55.6	19.60	91.2
10		QPSK	23.87	243.8	18.68	73.8	20.83	121.1
		16QAM	22.80	190.5	17.48	56.0	19.63	91.8

UAT OUTPUT POWER FOR LTE BAND 17

Part 27 LTE Band 17								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
5	704 - 716	QPSK	23.70	234.4	14.56	28.6	16.71	46.9
		16QAM	22.29	169.4	13.26	21.2	15.41	34.8
10		QPSK	23.70	234.4	14.70	29.5	16.85	48.4
		16QAM	22.29	169.4	13.61	23.0	15.76	37.7

LAT OUTPUT POWER FOR LTE BAND 25

Part 24 LTE Band 25						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1915	QPSK	23.41	219.3	26.22	418.8
		16QAM	22.34	171.4	25.22	332.7
3		QPSK	23.37	217.3	26.42	438.5
		16QAM	22.28	169.0	25.42	348.3
5		QPSK	23.36	216.8	26.34	430.5
		16QAM	22.38	173.0	25.44	349.9
10		QPSK	23.50	223.9	26.59	456.0
		16QAM	22.37	172.6	25.64	366.4
15		QPSK	23.24	210.9	26.59	456.0
		16QAM	22.12	162.9	25.84	383.7
20	QPSK	23.39	218.3	26.59	456.0	
	16QAM	22.20	166.0	25.77	377.6	

UAT OUTPUT POWER FOR LTE BAND 25

Part 24 LTE Band 25						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1915	QPSK	23.39	218.3	21.57	143.5
		16QAM	22.09	161.8	20.78	119.7
3		QPSK	23.30	213.8	21.52	141.9
		16QAM	21.99	158.1	20.56	113.8
5		QPSK	23.28	212.8	20.67	116.7
		16QAM	22.08	161.4	19.77	94.8
10		QPSK	23.32	214.8	21.46	140.0
		16QAM	21.99	158.1	20.49	111.9
15		QPSK	23.26	211.8	20.67	116.7
		16QAM	22.00	158.5	19.86	96.8
20	QPSK	23.36	216.8	21.77	150.3	
	16QAM	22.05	160.3	20.69	117.2	

LAT 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
3	814 - 824	QPSK	22.91	195.4	18.46	70.1	20.61	115.1
		16QAM	21.83	152.4	17.53	56.6	19.68	92.9
5		QPSK	22.86	193.2	18.38	68.9	20.53	113.0
		16QAM	22.00	158.5	17.46	55.7	19.61	91.4
10		QPSK	22.93	196.3	18.42	69.5	20.57	114.0
		16QAM	21.77	150.3	17.16	52.0	19.31	85.3

UAT 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
3	814 - 824	QPSK	22.85	192.8	16.44	44.1	18.59	72.3
		16QAM	21.73	148.9	15.47	35.2	17.62	57.8
5		QPSK	22.80	190.5	16.08	40.6	18.23	66.5
		16QAM	22.00	158.5	15.16	32.8	17.31	53.8
10		QPSK	23.00	199.5	16.30	42.7	18.45	70.0
		16QAM	21.97	157.4	15.39	34.6	17.54	56.8

LAT OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Peak)		EIRP(Peak)	
			dBm	mW	dBm	mW
5	2496 - 2690	QPSK	28.12	648.6	31.44	1393.2
		16QAM	27.62	578.1	30.54	1132.4
10		QPSK	28.44	698.2	31.01	1261.8
		16QAM	27.97	626.6	30.11	1025.7
15		QPSK	28.52	711.2	31.17	1309.2
		16QAM	28.10	645.7	30.17	1039.9
20		QPSK	28.20	660.7	31.27	1339.7
		16QAM	28.09	644.2	30.27	1064.1

UAT OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Peak)		EIRP(Peak)	
			dBm	mW	dBm	mW
5	2496 - 2690	QPSK	27.66	583.4	26.65	462.4
		16QAM	27.28	534.6	25.85	384.6
10		QPSK	28.24	666.8	26.65	462.4
		16QAM	27.71	590.2	25.75	375.8
15		QPSK	28.19	659.2	26.58	455.0
		16QAM	28.00	631.0	25.73	374.1
20		QPSK	27.87	612.4	26.39	435.5
		16QAM	27.75	595.7	25.49	354.0

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 12A310 Baseband 0.26.01.

The EUT is linked with Agilent 8960, Anritsu MT8820C, and CMW500 Communication Test Sets.

5.4. MAXIMUM ANTENNA GAIN

Please see table below:

LAT LTE BANDS	Antenna Gain (dBi)
LTE Band 2, 1850 – 1910 MHz	2.90
LTE Band 4, 1710 – 1755 MHz	1.22
LTE Band 5, 824 – 849 MHz	-2.32
LTE Band 13, 777 – 787 MHz	-3.92
LTE Band 17, 704 – 716 MHz	-2.50
LTE Band 25, 1850 – 1915 MHz	2.90
LTE Band 26, 814 – 824 MHz	-2.62
LTE Band 41, 2496 – 2690 MHz	3.25

UAT LTE BANDS	Antenna Gain (dBi)
LTE Band 2, 1850 – 1910 MHz	-1.29
LTE Band 4, 1710 – 1755 MHz	-1.18
LTE Band 5, 824 – 849 MHz	-5.41
LTE Band 13, 777 – 787 MHz	-4.42
LTE Band 17, 704 – 716 MHz	-5.23
LTE Band 25, 1850 – 1915 MHz	-1.29
LTE Band 26, 814 – 824 MHz	-5.17
LTE Band 41, 2496 – 2690 MHz	-1.42

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, and Band 41.

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

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations the worst case was determined to be at X orientation for all LTE bands.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
AC Adapter	Dell	Latitude 3540	NA
DC Power Supply	Dell	H65NM130	426-03P6-A00
EUT AC Adapter	Apple	A1385	D292365COYADHLHC3

I/O CABLES (RF Conducted Test)

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	2m	N/A
3	RF In/Out	1	EUT	Un-shielded	1m	N/A
4	RF In/Out	1	Spectrum	Un-shielded	1m	N/A
5	RF In/Out	1	Communication Test Set	Un-shielded	None	N/A

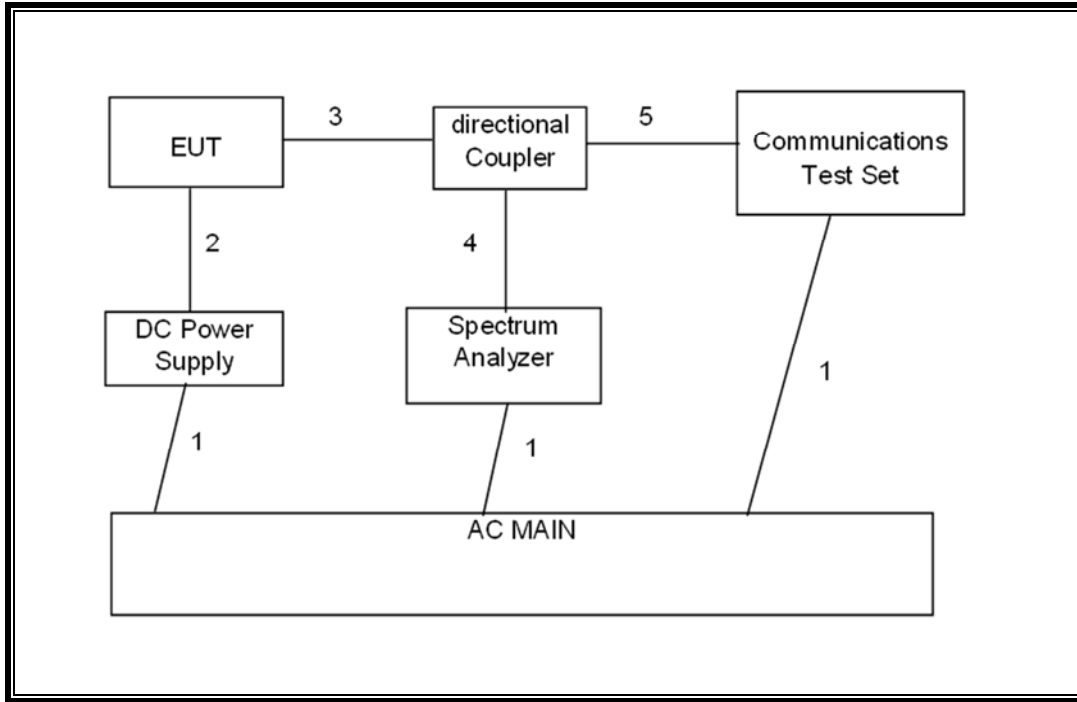
I/O CABLES (RF Radiated Test)

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5m	NA

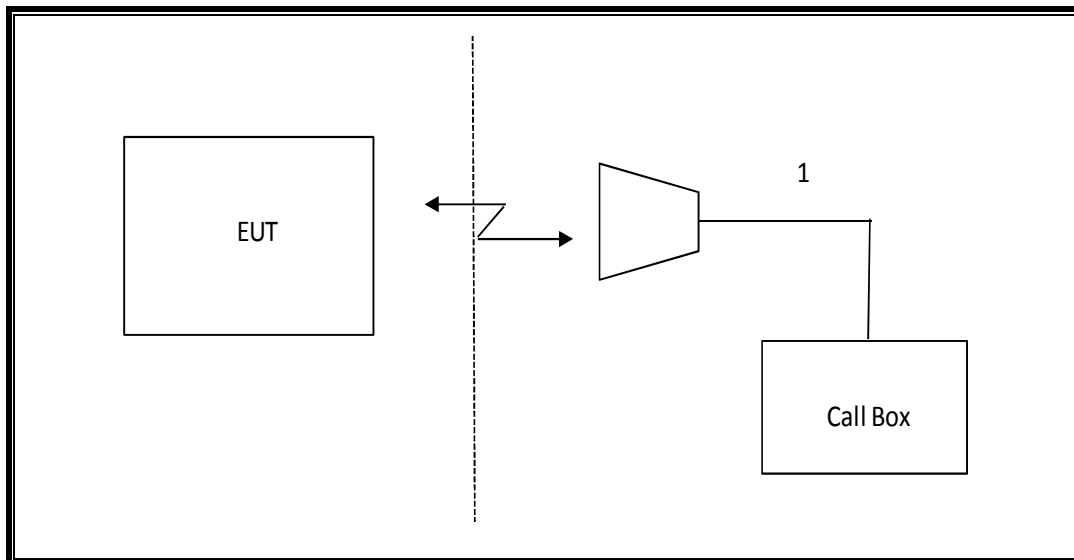
TEST SETUP

SETUP DIAGRAM FOR TESTS

CONDUCTED SETUP DIAGRAM FOR TESTS



RADIATED SETUP DIAGRAM FOR TESTS



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	Asset	Cal Due
Directional Coupler	Krytar	Directional Coupler	Krytar	CNR
8960 series 10 wireless	Agilent	E5515E	F00362	09/11/14
Spectrum Analyzer, PXA, 44GHz	Agilent	N9030A	None	05/17/15
Wideband Radio Communication	R & S	CMW500	None	05/29/15
Temperature / Humidity Chamber	CSZ	ZPHS-8-3.5-SCT/WC	None	10/14/14
Signal Generator, 100KHz - 6GHz	Agilent	8665B	F00124	03/12/15
Antenna, Tuned Dipole 400~1000	ETS Lindgren	3121C DB4	C00993	01/23/15
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02686	CNR
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02688	CNR
HighPass Filter 1GHz	Micro-Tronics	HPM18129	None	CNR
Power Meter	Agilent	N1911A	F00022	4/9/2015
Power Sensor	Agilent	E9323A	F00153	03/06/15
Antenna, Horn 1-18GHz	ETS Lindgren	3117	None	04/14/15
Antenna, Horn, 18 GHz	EMCO	3115	C00872	01/06/15
Amplifier, 1 to 18GHz	Miteq	AMF-5D-01001800-40-20P	F00394	11/27/14
Amplifier	Sonoma	310	F00008	05/28/15
Antenna, Biconolog, 30MHz-1	Sunol Sciences	JB3	F00027	05/05/15

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. LTE BAND 2

LAT OUTPUT POWER FOR LTE BAND 2 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	18607	1850.7	QPSK	1	0	28.46	23.18
				1	2	27.20	23.11
				1	5	27.65	23.18
				3	0	28.64	23.10
				3	1	28.09	23.20
				3	2	28.07	23.15
			16QAM	6	0	27.57	22.22
				1	0	28.48	21.98
				1	2	27.93	21.98
				1	5	28.01	21.95
				3	0	28.61	21.90
				3	1	27.52	21.92
				3	2	27.83	21.96
				6	0	28.05	21.23
1.4	18900	1880.0	QPSK	1	0	27.83	23.56
				1	2	27.80	23.46
				1	5	27.85	23.57
				3	0	28.03	23.30
				3	1	27.96	23.20
				3	2	28.00	23.25
			16QAM	6	0	28.03	22.56
				1	0	27.82	22.23
				1	2	27.79	22.22
				1	5	27.87	22.25
				3	0	27.91	21.53
				3	1	27.88	21.51
				3	2	27.92	21.53
				6	0	27.97	21.50
1.4	19193	1909.3	QPSK	1	0	27.46	23.55
				1	2	27.31	23.53
				1	5	27.30	23.57
				3	0	27.69	23.30
				3	1	27.54	23.25
				3	2	27.53	23.29
			16QAM	6	0	27.79	22.53
				1	0	27.46	22.46
				1	2	27.34	22.40
				1	5	27.48	22.43
				3	0	27.60	22.32
				3	1	27.53	22.30
				3	2	27.50	22.25
				6	0	27.73	21.53

LAT OUTPUT POWER FOR LTE BAND 2 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)			
				Size	Offset					
3.0	18615	1851.5	QPSK	1	0	28.44	23.06			
				1	7	27.13	22.97			
				1	14	27.35	23.03			
				8	0	27.27	22.05			
				8	4	27.33	22.05			
				8	7	27.37	22.02			
			15	0	27.60	21.98				
			16QAM	1	0	26.98	21.94			
				1	7	27.14	21.87			
				1	14	27.31	21.93			
				8	0	27.22	21.15			
				8	4	27.32	21.16			
				8	7	27.32	21.15			
			3.0	18900	1880.0	QPSK	1	0	27.82	23.61
							1	7	27.74	23.51
1	14	27.85					23.63			
8	0	27.80					22.67			
8	4	27.76					22.63			
8	7	27.78					22.64			
15	0	28.13				22.61				
16QAM	1	0				27.82	22.29			
	1	7				27.76	22.20			
	1	14				27.83	22.28			
	8	0				27.57	21.51			
	8	4				27.57	21.50			
	8	7				27.66	21.53			
15	0	28.07				21.47				
3.0	19185	1908.5				QPSK	1	0	27.72	23.55
			1	7	27.37		23.51			
			1	14	27.28		23.56			
			8	0	27.61		22.57			
			8	4	27.50		22.60			
			8	7	27.48		22.58			
			15	0	28.01	22.58				
			16QAM	1	0	27.69	22.45			
				1	7	27.42	22.37			
				1	14	27.30	22.45			
				8	0	27.49	21.60			
				8	4	27.35	21.54			
				8	7	27.41	21.54			
			15	0	27.99	21.57				

LAT OUTPUT POWER FOR LTE BAND 2 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	18625	1852.5	QPSK	1	0	27.87	23.12
				1	12	27.19	23.11
				1	24	27.38	23.13
				12	0	27.25	22.11
				12	6	27.37	22.16
				12	11	27.39	22.13
			16QAM	25	0	27.75	22.14
				1	0	27.61	21.94
				1	12	27.21	21.93
				1	24	27.42	21.99
				12	0	27.24	21.13
				12	6	27.33	21.09
				12	11	27.40	21.07
				25	0	27.67	21.20
5.0	18900	1880.0	QPSK	1	0	27.70	23.33
				1	12	27.75	23.34
				1	24	27.86	23.39
				12	0	27.74	22.47
				12	6	27.73	22.42
				12	11	27.79	22.45
			16QAM	25	0	28.20	22.39
				1	0	27.70	22.18
				1	12	27.76	22.24
				1	24	27.90	22.29
				12	0	27.70	21.49
				12	6	27.62	21.44
				12	11	27.66	21.47
				25	0	28.01	21.56
5.0	19175	1907.5	QPSK	1	0	27.89	23.54
				1	12	27.54	23.53
				1	24	27.24	23.54
				12	0	27.80	22.65
				12	6	27.59	22.55
				12	11	27.53	22.62
			16QAM	25	0	28.06	22.58
				1	0	27.91	22.55
				1	12	27.58	22.52
				1	24	27.30	22.48
				12	0	27.70	21.50
				12	6	27.47	21.46
				12	11	27.48	21.47
				25	0	28.14	21.57

LAT OUTPUT POWER FOR LTE BAND 2 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	18650	1855.0	QPSK	1	0	27.38	23.13
				1	24	27.33	23.12
				1	49	27.63	23.05
				25	0	27.36	22.13
				25	12	27.55	22.12
				25	24	27.54	22.12
			16QAM	50	0	27.95	22.15
				1	0	27.02	21.99
				1	24	27.34	21.90
				1	49	27.66	21.92
				25	0	27.38	21.22
				25	12	27.49	21.20
				25	24	27.55	21.19
				50	0	27.94	21.19
10.0	18900	1880.0	QPSK	1	0	27.54	23.33
				1	24	27.71	23.39
				1	49	27.97	23.43
				25	0	27.72	22.45
				25	12	27.79	22.52
				25	24	27.90	22.53
			16QAM	50	0	28.01	22.47
				1	0	27.55	22.20
				1	24	27.70	22.19
				1	49	28.00	22.29
				25	0	27.68	21.51
				25	12	27.75	21.52
				25	24	27.90	21.58
				50	0	28.20	21.49
10.0	19150	1905.0	QPSK	1	0	27.81	23.42
				1	24	27.79	23.56
				1	49	27.26	23.55
				25	0	27.87	22.56
				25	12	27.74	22.66
				25	24	27.66	22.66
			16QAM	50	0	28.17	22.74
				1	0	27.80	22.38
				1	24	27.80	22.46
				1	49	27.33	22.55
				25	0	27.81	21.52
				25	12	27.75	21.53
				25	24	27.63	21.55
				50	0	27.82	21.58

LAT OUTPUT POWER FOR LTE BAND 2 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	18675	1857.5	QPSK	1	0	27.33	23.11
				1	37	27.40	23.10
				1	74	27.23	23.10
				36	0	27.47	22.18
				36	16	27.52	22.27
				36	35	27.54	22.28
				75	0	27.98	22.22
			16-QAM	1	0	27.32	21.93
				1	37	27.42	21.93
				1	74	27.28	21.89
				36	0	27.47	21.26
				36	16	27.46	21.25
				36	35	27.55	21.26
				75	0	28.02	21.30
15.0	18900	1880.0	QPSK	1	0	28.41	23.55
				1	37	27.19	23.50
				1	74	27.20	23.58
				36	0	28.05	22.69
				36	16	27.85	22.62
				36	35	27.38	22.63
				75	0	28.51	22.67
			16-QAM	1	0	27.91	22.28
				1	37	27.22	22.23
				1	74	27.08	22.27
				36	0	28.02	21.57
				36	16	27.68	21.51
				36	35	27.40	21.46
				75	0	28.43	21.55
15.0	19125	1902.5	QPSK	1	0	28.26	23.51
				1	37	27.14	23.53
				1	74	27.56	23.50
				36	0	28.04	22.67
				36	16	27.90	22.67
				36	35	27.53	22.69
				75	0	28.75	22.69
			16-QAM	1	0	26.85	22.37
				1	37	27.15	22.35
				1	74	27.57	22.32
				36	0	27.92	21.50
				36	16	27.84	21.49
				36	35	27.51	21.51
				75	0	28.54	21.57

LAT OUTPUT POWER FOR LTE BAND 2 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	18700	1860.0	QPSK	1	0	28.52	23.08
				1	49	27.14	23.08
				1	99	28.45	23.16
				50	0	28.11	22.17
				50	24	27.86	22.15
				50	49	27.98	22.24
			100	0	28.26	22.16	
			16-QAM	1	0	28.18	21.80
				1	49	27.17	21.78
				1	99	27.42	21.87
				50	0	27.92	21.20
				50	24	27.37	21.14
				50	49	27.85	21.21
			20.0	18900	1880.0	QPSK	1
1	49	28.44					23.63
1	99	27.45					23.63
50	0	28.06					22.61
50	24	27.99					22.61
50	49	28.12					22.66
100	0	28.54				22.65	
16-QAM	1	0				27.48	22.24
	1	49				27.11	22.30
	1	99				27.50	22.28
	50	0				27.92	21.51
	50	24				27.91	21.49
	50	49				28.09	21.56
100	0	28.52				21.57	
20.0	19100	1900.0	QPSK	1	0	27.44	23.59
				1	49	27.24	23.58
				1	99	27.16	23.55
				50	0	27.50	22.63
				50	24	27.41	22.51
				50	49	27.55	22.58
			100	0	27.75	22.45	
			16-QAM	1	0	27.43	22.35
				1	49	27.25	22.34
				1	99	27.22	22.28
				50	0	27.48	21.57
				50	24	27.46	21.55
				50	49	27.56	21.57
			100	0	27.89	21.44	

UAT OUTPUT POWER FOR LTE BAND 2 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	18607	1850.7	QPSK	1	0	26.73	23.02
				1	2	26.68	22.98
				1	5	26.78	23.09
				3	0	27.03	23.00
				3	1	26.90	23.05
				3	2	26.94	23.00
			16QAM	6	0	27.13	22.10
				1	0	27.01	22.12
				1	2	26.66	22.10
				1	5	27.06	22.20
				3	0	26.97	22.21
				3	1	26.76	22.00
				3	2	26.80	22.10
				6	0	27.06	22.10
1.4	18900	1880.0	QPSK	1	0	27.30	23.26
				1	2	27.22	23.22
				1	5	27.29	23.28
				3	0	27.51	23.20
				3	1	27.43	23.15
				3	2	27.45	23.16
			16QAM	6	0	27.57	22.28
				1	0	27.30	22.30
				1	2	27.21	22.24
				1	5	27.29	22.28
				3	0	27.37	22.20
				3	1	27.31	22.25
				3	2	27.34	22.18
				6	0	27.51	21.24
1.4	19193	1909.3	QPSK	1	0	27.70	23.04
				1	2	27.61	23.01
				1	5	27.58	22.97
				3	0	27.74	22.87
				3	1	27.73	23.00
				3	2	27.71	22.14
			16QAM	6	0	27.49	22.02
				1	0	27.69	22.03
				1	2	27.60	21.99
				1	5	27.61	22.04
				3	0	27.70	22.00
				3	1	27.70	22.05
				3	2	27.72	22.02
				6	0	27.62	21.11

UAT OUTPUT POWER FOR LTE BAND 2 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	18615	1851.5	QPSK	1	0	26.68	23.05
				1	7	26.70	22.97
				1	14	27.02	23.13
				8	0	26.82	22.12
				8	4	26.89	22.12
				8	7	26.97	22.12
			16QAM	15	0	27.06	22.06
				1	0	26.66	21.98
				1	7	26.69	21.90
				1	14	27.01	22.06
				8	0	26.64	21.13
				8	4	26.76	21.12
				8	7	26.83	21.11
				15	0	27.18	21.09
3.0	18900	1880.0	QPSK	1	0	27.14	23.26
				1	7	27.13	23.18
				1	14	27.41	23.28
				8	0	27.24	22.29
				8	4	27.23	22.26
				8	7	27.30	22.28
			16QAM	15	0	27.60	22.29
				1	0	27.14	22.14
				1	7	27.18	22.11
				1	14	27.38	22.14
				8	0	27.10	21.25
				8	4	27.04	21.23
				8	7	27.16	21.26
				15	0	27.62	21.24
3.0	19185	1908.5	QPSK	1	0	27.73	22.91
				1	7	27.60	23.02
				1	14	27.61	23.00
				8	0	27.17	21.96
				8	4	27.17	22.03
				8	7	27.20	22.04
			16QAM	15	0	27.61	21.94
				1	0	27.53	21.92
				1	7	27.39	21.91
				1	14	27.51	21.94
				8	0	26.81	21.02
				8	4	26.85	21.03
				8	7	27.05	21.06
				15	0	27.55	21.00

UAT OUTPUT POWER FOR LTE BAND 2 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	18625	1852.5	QPSK	1	0	26.64	23.06
				1	12	26.87	23.14
				1	24	27.14	23.13
				12	0	26.90	22.16
				12	6	26.94	22.13
				12	11	27.11	22.15
			16QAM	25	0	27.39	22.15
				1	0	26.79	22.12
				1	12	26.88	22.19
				1	24	27.16	22.14
				12	0	26.79	21.10
				12	6	26.84	21.01
				12	11	27.00	21.16
				25	0	27.22	21.22
5.0	18900	1880.0	QPSK	1	0	27.03	23.19
				1	12	27.12	23.18
				1	24	27.41	23.25
				12	0	27.20	22.25
				12	6	27.24	22.31
				12	11	27.28	22.27
			16QAM	25	0	27.65	22.27
				1	0	27.06	22.37
				1	12	27.13	22.32
				1	24	27.44	22.27
				12	0	27.13	21.27
				12	6	27.14	21.23
				12	11	27.20	21.29
				25	0	27.71	21.23
5.0	19175	1907.5	QPSK	1	0	27.62	22.90
				1	12	27.53	23.00
				1	24	27.54	22.97
				12	0	27.36	22.03
				12	6	27.17	22.00
				12	11	27.26	22.00
			16QAM	25	0	27.73	21.96
				1	0	27.65	22.17
				1	12	27.62	22.13
				1	24	27.59	22.18
				12	0	27.05	21.01
				12	6	27.03	21.01
				12	11	27.01	21.01
				25	0	27.67	21.10

UAT OUTPUT POWER FOR LTE BAND 2 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	18650	1855.0	QPSK	1	0	26.67	23.06
				1	24	27.11	23.07
				1	49	27.65	23.10
				25	0	27.04	22.16
				25	12	27.26	22.16
				25	24	27.43	22.15
			16QAM	50	0	27.67	22.18
				1	0	26.69	21.93
				1	24	27.09	21.95
				1	49	27.59	21.93
				25	0	26.96	21.15
				25	12	27.21	21.23
				25	24	27.35	21.21
				50	0	27.51	21.23
10.0	18900	1880.0	QPSK	1	0	27.04	23.21
				1	24	27.12	23.24
				1	49	27.68	23.18
				25	0	27.20	22.31
				25	12	27.26	22.33
				25	24	27.48	22.35
			16QAM	50	0	27.61	22.37
				1	0	27.03	22.12
				1	24	27.10	22.15
				1	49	27.68	22.10
				25	0	27.11	21.21
				25	12	27.27	21.30
				25	24	27.42	21.24
				50	0	27.75	21.23
10.0	19150	1905.0	QPSK	1	0	27.42	22.97
				1	24	27.49	23.01
				1	49	27.58	22.92
				25	0	27.31	22.15
				25	12	27.42	22.08
				25	24	27.30	22.01
			16QAM	50	0	27.77	22.04
				1	0	27.40	22.18
				1	24	27.32	21.90
				1	49	27.46	21.92
				25	0	27.21	21.10
				25	12	27.05	21.01
				25	24	27.27	21.00
				50	0	27.65	21.01

UAT OUTPUT POWER FOR LTE BAND 2 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	18675	1857.5	QPSK	1	0	27.65	23.07
				1	37	27.38	23.01
				1	74	27.56	22.96
				36	0	27.51	22.16
				36	16	27.29	22.18
				36	35	27.33	22.08
				75	0	27.88	22.15
			16-QAM	1	0	27.48	21.91
				1	37	27.31	21.91
				1	74	27.46	21.91
				36	0	27.34	21.15
				36	16	27.14	21.18
				36	35	27.23	21.06
				75	0	27.62	21.09
15.0	18900	1880.0	QPSK	1	0	26.65	23.10
				1	37	27.39	23.11
				1	74	27.53	23.34
				36	0	27.25	22.31
				36	16	27.41	22.30
				36	35	27.53	22.37
				75	0	27.68	22.36
			16-QAM	1	0	26.64	22.11
				1	37	27.40	22.14
				1	74	27.54	22.08
				36	0	27.16	21.28
				36	16	27.35	21.23
				36	35	27.50	21.29
				75	0	27.66	21.22
15.0	19125	1902.5	QPSK	1	0	26.91	23.19
				1	37	27.13	23.27
				1	74	27.73	23.16
				36	0	27.15	22.17
				36	16	27.27	22.15
				36	35	27.45	22.14
				75	0	27.77	22.17
			16-QAM	1	0	26.92	22.05
				1	37	27.15	22.08
				1	74	27.70	21.95
				36	0	27.14	21.23
				36	16	27.24	21.26
				36	35	27.45	21.25
				75	0	27.71	21.25

UAT OUTPUT POWER FOR LTE BAND 2 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	18700	1860.0	QPSK	1	0	27.47	23.10
				1	49	27.58	23.15
				1	99	27.09	23.16
				50	0	27.31	22.10
				50	24	27.47	22.20
				50	49	27.48	22.12
				100	0	27.55	22.17
			16-QAM	1	0	26.56	21.91
				1	49	27.54	21.94
				1	99	27.12	22.11
				50	0	27.26	21.24
				50	24	27.40	21.29
				50	49	27.48	21.23
				100	0	27.51	21.26
20.0	18900	1880.0	QPSK	1	0	26.93	23.27
				1	49	27.12	23.33
				1	99	27.80	23.28
				50	0	27.08	22.38
				50	24	27.24	22.37
				50	49	27.55	22.40
				100	0	27.52	22.37
			16-QAM	1	0	26.92	22.11
				1	49	27.13	22.10
				1	99	27.80	22.02
				50	0	27.09	21.25
				50	24	27.30	21.22
				50	49	27.52	21.24
				100	0	27.66	21.22
20.0	19100	1900.0	QPSK	1	0	27.83	23.20
				1	49	27.36	23.07
				1	99	27.56	23.10
				50	0	27.53	22.15
				50	24	27.31	22.16
				50	49	27.43	22.13
				100	0	27.63	22.10
			16-QAM	1	0	27.78	21.91
				1	49	27.30	21.91
				1	99	27.58	21.90
				50	0	27.29	21.05
				50	24	27.20	21.12
				50	49	27.35	21.05
				100	0	27.73	21.13

7.2. LTE BAND 4

LAT OUTPUT POWER FOR LTE BAND 4 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	19957	1710.7	QPSK	1	0	28.53	23.82
				1	2	28.42	23.75
				1	5	28.60	23.75
				3	0	28.79	23.70
				3	1	28.67	23.75
				3	2	28.68	23.78
			16QAM	6	0	28.28	22.94
				1	0	28.68	22.95
				1	2	28.51	22.90
				1	5	28.76	22.96
				3	0	28.84	22.85
				3	1	28.70	22.90
				3	2	28.65	22.87
				6	0	28.32	21.98
1.4	20175	1732.5	QPSK	1	0	28.80	23.97
				1	2	28.58	23.98
				1	5	28.78	23.96
				3	0	29.06	23.90
				3	1	28.93	23.85
				3	2	28.86	23.88
			16QAM	6	0	28.46	22.95
				1	0	28.88	22.98
				1	2	28.66	22.92
				1	5	28.84	22.96
				3	0	28.96	22.90
				3	1	28.84	22.95
				3	2	28.82	22.90
				6	0	28.56	22.01
1.4	20393	1754.3	QPSK	1	0	28.74	23.99
				1	2	28.53	23.92
				1	5	28.75	23.90
				3	0	28.93	23.85
				3	1	28.89	23.90
				3	2	28.89	23.86
			16QAM	6	0	28.46	22.97
				1	0	28.83	22.96
				1	2	28.67	22.91
				1	5	28.82	22.94
				3	0	29.02	22.87
				3	1	28.85	22.90
				3	2	28.88	22.95
				6	0	28.49	21.93

LAT OUTPUT POWER FOR LTE BAND 4 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	19965	1711.5	QPSK	1	0	28.49	23.82
				1	7	28.49	23.71
				1	14	28.70	23.79
				8	0	28.02	22.87
				8	4	28.00	22.94
				8	7	28.05	22.91
			16QAM	15	0	28.53	22.96
				1	0	28.14	22.73
				1	7	28.12	22.77
				1	14	28.33	22.82
				8	0	27.59	21.88
				8	4	27.71	21.96
				8	7	27.82	21.96
				15	0	28.42	21.92
				3.0	20175	1732.5	QPSK
1	7	28.46	23.89				
1	14	28.67	23.95				
8	0	28.24	22.96				
8	4	28.04	22.95				
8	7	28.11	22.88				
16QAM	15	0	28.35				22.95
	1	0	28.39				22.89
	1	7	28.19				22.81
	1	14	28.30				22.86
	8	0	27.82				21.90
	8	4	27.75				21.93
	8	7	27.80				21.93
	15	0	28.26				21.90
	3.0	20385	1753.5				QPSK
1				7	28.52	23.94	
1				14	28.69	23.95	
8				0	28.24	22.94	
8				4	28.09	22.97	
8				7	28.17	22.96	
16QAM				15	0	28.53	22.93
				1	0	28.34	22.85
				1	7	28.14	22.78
				1	14	28.39	22.89
				8	0	27.85	21.95
				8	4	27.78	21.98
				8	7	27.88	21.99
				15	0	28.39	21.89

LAT OUTPUT POWER FOR LTE BAND 4 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	19975	1712.5	QPSK	1	0	28.34	23.76
				1	12	28.35	23.74
				1	24	28.56	23.76
				12	0	28.10	22.87
				12	6	28.04	22.95
				12	11	28.18	22.97
				25	0	28.76	22.95
			16QAM	1	0	28.47	22.99
				1	12	28.55	22.97
				1	24	28.73	22.95
				12	0	27.76	21.91
				12	6	27.71	21.99
				12	11	27.82	21.97
				25	0	28.78	21.96
5.0	20175	1732.5	QPSK	1	0	28.62	23.94
				1	12	28.42	23.91
				1	24	28.53	23.96
				12	0	28.20	22.95
				12	6	27.97	22.94
				12	11	28.10	22.92
				25	0	28.84	22.96
			16QAM	1	0	28.70	22.96
				1	12	28.55	22.98
				1	24	28.63	22.96
				12	0	27.95	21.94
				12	6	27.79	21.95
				12	11	27.81	21.94
				25	0	28.45	21.97
5.0	20375	1752.5	QPSK	1	0	28.49	23.89
				1	12	28.42	23.92
				1	24	28.57	23.97
				12	0	28.11	22.92
				12	6	27.98	22.96
				12	11	28.08	22.96
				25	0	28.67	22.91
			16QAM	1	0	28.57	22.99
				1	12	28.51	22.92
				1	24	28.65	22.98
				12	0	27.86	21.93
				12	6	27.76	21.90
				12	11	27.82	21.92
				25	0	28.70	21.98

LAT OUTPUT POWER FOR LTE BAND 4 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	20000	1715.0	QPSK	1	0	28.42	23.81
				1	24	28.55	23.77
				1	49	28.71	23.79
				25	0	28.23	22.93
				25	12	28.25	22.97
				25	24	28.24	22.94
			16QAM	50	0	28.63	22.95
				1	0	28.15	22.74
				1	24	28.19	22.74
				1	49	28.39	22.78
				25	0	28.04	21.98
				25	12	28.07	21.96
				25	24	28.15	21.95
				50	0	28.69	21.97
10.0	20175	1732.5	QPSK	1	0	28.68	23.97
				1	24	28.54	23.92
				1	49	28.62	23.99
				25	0	28.18	22.97
				25	12	28.18	22.99
				25	24	28.21	22.97
			16QAM	50	0	28.99	22.97
				1	0	28.44	22.91
				1	24	28.19	22.81
				1	49	28.20	22.83
				25	0	28.16	21.94
				25	12	27.91	21.90
				25	24	27.98	21.92
				50	0	28.18	21.93
10.0	20350	1750.0	QPSK	1	0	28.52	23.93
				1	24	28.47	23.88
				1	49	28.63	23.87
				25	0	28.14	22.96
				25	12	28.06	22.97
				25	24	28.18	22.99
			16QAM	50	0	29.02	22.92
				1	0	28.17	22.82
				1	24	28.17	22.83
				1	49	28.31	22.86
				25	0	27.99	21.99
				25	12	27.91	21.97
				25	24	28.03	22.00
				50	0	28.20	21.88

LAT OUTPUT POWER FOR LTE BAND 4 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	20025	1717.5	QPSK	1	0	28.30	23.72
				1	37	28.33	23.63
				1	74	28.57	23.76
				36	0	28.12	22.91
				36	16	28.02	22.90
				36	35	28.08	22.88
				75	0	28.65	22.97
			16-QAM	1	0	27.88	22.72
				1	37	28.04	22.72
				1	74	28.21	22.85
				36	0	27.94	21.83
				36	16	27.93	21.83
				36	35	27.99	21.84
				75	0	28.62	21.88
15.0	20175	1732.5	QPSK	1	0	28.54	23.77
				1	37	28.20	23.72
				1	74	28.35	23.88
				36	0	28.17	22.99
				36	16	27.86	22.93
				36	35	27.86	22.96
				75	0	28.57	22.98
			16-QAM	1	0	28.14	22.80
				1	37	27.86	22.76
				1	74	27.93	22.70
				36	0	27.96	21.89
				36	16	27.67	21.86
				36	35	27.70	21.87
				75	0	28.42	21.91
15.0	20325	1747.5	QPSK	1	0	28.35	23.84
				1	37	28.29	23.85
				1	74	28.37	23.79
				36	0	28.13	22.99
				36	16	27.85	23.00
				36	35	27.88	22.88
				75	0	28.56	22.92
			16-QAM	1	0	27.94	22.70
				1	37	27.88	22.70
				1	74	28.01	22.71
				36	0	27.86	21.95
				36	16	27.63	21.93
				36	35	27.74	21.84
				75	0	28.37	21.91

LAT OUTPUT POWER FOR LTE BAND 4 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	20050	1720.0	QPSK	1	0	28.34	23.77
				1	49	28.54	23.79
				1	99	28.60	23.73
				50	0	28.17	22.90
				50	24	28.10	22.88
				50	49	28.36	22.93
			16-QAM	100	0	28.35	22.94
				1	0	28.11	22.72
				1	49	28.20	22.75
				1	99	28.28	22.83
				50	0	27.93	21.84
				50	24	27.97	21.84
20.0	20175	1732.5	QPSK	50	49	28.17	21.94
				100	0	28.40	21.93
				1	0	28.74	23.89
				1	49	28.34	23.83
				1	99	28.49	23.96
				50	0	28.13	22.94
			16-QAM	50	24	27.98	22.97
				50	49	27.96	22.92
				100	0	28.36	22.87
				1	0	28.39	22.76
				1	49	27.99	22.78
				1	99	28.16	22.75
20.0	20300	1745.0	QPSK	50	0	27.94	21.89
				50	24	27.62	21.84
				50	49	27.71	21.84
				100	0	28.09	21.86
				1	0	28.39	23.84
				1	49	28.37	23.93
			16-QAM	1	99	28.31	23.87
				50	0	27.94	22.87
				50	24	27.88	23.00
				50	49	28.00	22.88
				100	0	28.30	22.83
				1	0	28.09	22.77
16-QAM	1	49	28.07	22.73			
	1	99	28.23	22.80			
	50	0	27.69	21.81			
	50	24	27.61	21.88			
	50	49	27.77	21.81			
	100	0	28.03	21.82			

UAT OUTPUT POWER FOR LTE BAND 4 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	19957	1710.7	QPSK	1	0	27.57	22.88
				1	2	27.35	22.89
				1	5	27.53	22.98
				3	0	27.61	22.70
				3	1	27.55	22.75
				3	2	27.57	22.80
			16QAM	6	0	27.13	21.94
				1	0	27.54	21.97
				1	2	27.39	21.91
				1	5	27.52	21.96
				3	0	27.59	21.80
				3	1	27.51	21.75
				3	2	27.51	21.80
				6	0	27.17	21.07
1.4	20175	1732.5	QPSK	1	0	27.78	23.00
				1	2	27.52	22.92
				1	5	27.69	22.95
				3	0	27.97	22.70
				3	1	27.83	22.75
				3	2	27.88	22.73
			16QAM	6	0	27.38	21.97
				1	0	27.80	21.97
				1	2	27.61	21.94
				1	5	27.74	21.96
				3	0	27.94	21.87
				3	1	27.81	21.80
				3	2	27.76	21.85
				6	0	27.40	21.08
1.4	20393	1754.3	QPSK	1	0	27.45	22.85
				1	2	27.39	22.99
				1	5	27.45	22.76
				3	0	27.56	22.70
				3	1	27.50	22.75
				3	2	27.51	22.72
			16QAM	6	0	27.36	22.06
				1	0	27.44	22.03
				1	2	27.38	21.97
				1	5	27.45	22.04
				3	0	27.51	21.85
				3	1	27.47	21.90
				3	2	27.47	21.87
				6	0	27.37	21.04

UAT OUTPUT POWER FOR LTE BAND 4 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	19965	1711.5	QPSK	1	0	27.54	22.83
				1	7	27.31	22.84
				1	14	27.59	22.93
				8	0	26.87	21.98
				8	4	26.72	21.95
				8	7	26.88	21.92
			16QAM	15	0	27.21	21.97
				1	0	27.10	21.81
				1	7	26.94	21.81
				1	14	27.18	21.81
				8	0	26.51	21.02
				8	4	26.54	21.02
				8	7	26.67	20.97
				15	0	27.03	21.03
				3.0	20175	1732.5	QPSK
1	7	27.42	22.84				
1	14	27.63	22.90				
8	0	27.13	21.98				
8	4	26.94	21.93				
8	7	26.93	21.95				
16QAM	15	0	27.42				21.95
	1	0	27.35				21.81
	1	7	27.14				21.81
	1	14	27.30				21.85
	8	0	26.79				20.97
	8	4	26.78				20.97
	8	7	26.78				20.94
	15	0	27.18				20.99
	3.0	20385	1753.5				QPSK
1				7	27.35	22.93	
1				14	27.50	22.76	
8				0	27.10	21.96	
8				4	26.93	21.95	
8				7	27.01	22.04	
16QAM				15	0	27.45	21.98
				1	0	27.35	21.97
				1	7	27.10	21.82
				1	14	27.27	21.88
				8	0	26.71	21.07
				8	4	26.61	21.07
				8	7	26.66	20.97
				15	0	27.41	21.10

UAT OUTPUT POWER FOR LTE BAND 4 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	19975	1712.5	QPSK	1	0	27.37	22.88
				1	12	27.29	22.87
				1	24	27.49	22.91
				12	0	27.00	21.97
				12	6	26.74	21.94
				12	11	26.89	21.95
				25	0	27.50	21.98
			16QAM	1	0	27.38	22.01
				1	12	27.37	22.08
				1	24	27.52	22.01
				12	0	26.65	20.94
				12	6	26.59	20.96
				12	11	26.66	20.95
				25	0	27.58	21.08
5.0	20175	1732.5	QPSK	1	0	27.57	22.87
				1	12	27.38	22.88
				1	24	27.46	22.89
				12	0	27.19	22.00
				12	6	26.98	22.00
				12	11	27.01	21.92
				25	0	27.74	21.92
			16QAM	1	0	27.65	22.05
				1	12	27.56	22.03
				1	24	27.58	22.05
				12	0	26.93	20.96
				12	6	26.74	20.95
				12	11	26.78	20.96
				25	0	27.43	21.06
5.0	20375	1752.5	QPSK	1	0	27.41	22.90
				1	12	27.33	22.96
				1	24	27.50	22.79
				12	0	27.12	21.98
				12	6	26.96	21.91
				12	11	26.98	22.04
				25	0	27.60	22.01
			16QAM	1	0	27.41	22.07
				1	12	27.36	22.06
				1	24	27.47	22.06
				12	0	26.88	21.07
				12	6	26.75	21.05
				12	11	26.65	20.97
				25	0	27.53	21.08

UAT OUTPUT POWER FOR LTE BAND 4 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	20000	1715.0	QPSK	1	0	27.38	22.89
				1	24	27.47	22.88
				1	49	27.68	22.87
				25	0	26.96	21.98
				25	12	26.95	22.02
				25	24	27.16	21.97
				50	0	27.69	21.98
			16QAM	1	0	26.98	21.81
				1	24	27.06	21.81
				1	49	27.37	21.81
				25	0	26.86	20.99
				25	12	26.79	21.02
				25	24	27.09	20.95
				50	0	27.24	21.04
10.0	20175	1732.5	QPSK	1	0	27.59	22.86
				1	24	27.49	22.87
				1	49	27.48	22.90
				25	0	27.21	21.98
				25	12	27.11	22.01
				25	24	27.08	22.05
				50	0	27.51	22.00
			16QAM	1	0	27.31	21.81
				1	24	27.14	21.81
				1	49	27.17	21.80
				25	0	27.11	20.93
				25	12	26.99	20.91
				25	24	27.03	20.95
				50	0	27.78	21.03
10.0	20350	1750.0	QPSK	1	0	27.37	22.87
				1	24	27.35	22.91
				1	49	27.50	22.71
				25	0	27.00	21.96
				25	12	26.76	21.97
				25	24	27.11	22.08
				50	0	27.91	22.02
			16QAM	1	0	26.98	21.81
				1	24	27.02	21.81
				1	49	27.12	21.80
				25	0	26.81	21.04
				25	12	26.67	21.00
				25	24	26.91	20.99
				50	0	27.42	21.02

UAT OUTPUT POWER FOR LTE BAND 4 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	20025	1717.5	QPSK	1	0	27.44	22.90
				1	37	27.54	22.90
				1	74	27.68	22.90
				36	0	27.19	22.04
				36	16	27.04	22.03
				36	35	27.21	22.05
				75	0	27.81	22.07
			16-QAM	1	0	27.00	21.81
				1	37	27.16	21.81
				1	74	27.35	21.84
				36	0	27.06	21.04
				36	16	26.99	21.05
				36	35	27.16	20.98
				75	0	27.85	21.06
15.0	20175	1732.5	QPSK	1	0	27.71	22.88
				1	37	27.49	22.92
				1	74	27.43	22.95
				36	0	27.31	22.05
				36	16	27.10	22.10
				36	35	27.03	22.06
				75	0	27.87	22.08
			16-QAM	1	0	27.31	21.85
				1	37	27.15	21.81
				1	74	27.02	21.81
				36	0	27.22	20.98
				36	16	27.02	20.98
				36	35	27.03	20.97
				75	0	27.58	21.09
15.0	20325	1747.5	QPSK	1	0	27.37	22.90
				1	37	27.35	22.93
				1	74	27.45	22.76
				36	0	27.11	21.96
				36	16	26.84	21.97
				36	35	27.00	22.09
				75	0	27.75	22.10
			16-QAM	1	0	26.94	21.81
				1	37	26.91	21.83
				1	74	27.19	21.83
				36	0	26.96	21.08
				36	16	26.71	21.06
				36	35	26.89	20.90
				75	0	27.44	21.09

UAT OUTPUT POWER FOR LTE BAND 4 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	20050	1720.0	QPSK	1	0	27.50	22.88
				1	49	27.74	23.00
				1	99	27.84	22.97
				50	0	27.22	21.98
				50	24	27.21	22.02
				50	49	27.40	22.09
				100	0	27.64	21.95
			16-QAM	1	0	27.21	21.81
				1	49	27.35	21.81
				1	99	27.51	21.81
				50	0	27.03	21.02
				50	24	27.13	21.05
				50	49	27.32	20.94
				100	0	27.64	21.09
20.0	20175	1732.5	QPSK	1	0	27.86	23.00
				1	49	27.60	23.00
				1	99	27.53	22.94
				50	0	27.35	22.06
				50	24	27.05	22.03
				50	49	27.17	22.10
				100	0	27.69	22.03
			16-QAM	1	0	27.57	21.81
				1	49	27.24	21.82
				1	99	27.22	21.87
				50	0	27.23	20.95
				50	24	27.07	20.95
				50	49	26.99	20.96
				100	0	27.29	21.10
20.0	20300	1745.0	QPSK	1	0	27.58	22.87
				1	49	27.46	23.00
				1	99	27.39	23.10
				50	0	27.07	21.96
				50	24	26.97	22.00
				50	49	27.14	22.10
				100	0	27.56	21.99
			16-QAM	1	0	27.28	21.81
				1	49	27.03	21.82
				1	99	27.36	21.89
				50	0	26.85	20.99
				50	24	26.73	21.08
				50	49	26.94	20.97
				100	0	27.47	21.08

7.3. LTE BAND 5

LAT OUTPUT POWER FOR LTE BAND 5 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	20407	824.7	QPSK	1	0	28.68	23.88
				1	2	28.51	23.86
				1	5	28.52	23.77
				3	0	28.91	23.70
				3	1	28.80	23.72
				3	2	28.80	23.65
				6	0	28.55	22.88
			16QAM	1	0	28.78	22.59
				1	2	28.61	22.57
				1	5	28.64	22.44
				3	0	28.96	22.30
				3	1	28.83	22.35
				3	2	28.76	22.40
				6	0	28.48	21.90
1.4	20525	836.5	QPSK	1	0	28.36	23.76
				1	2	28.16	23.72
				1	5	28.35	23.76
				3	0	28.66	23.60
				3	1	28.44	23.55
				3	2	28.51	23.58
				6	0	28.19	22.84
			16QAM	1	0	28.46	22.48
				1	2	28.33	22.48
				1	5	28.50	22.47
				3	0	28.63	22.30
				3	1	28.47	22.25
				3	2	28.45	22.35
				6	0	28.28	21.70
1.4	20643	848.3	QPSK	1	0	28.64	23.94
				1	2	28.44	23.86
				1	5	28.45	23.92
				3	0	28.77	23.70
				3	1	28.72	23.75
				3	2	28.65	23.80
				6	0	28.30	22.87
			16QAM	1	0	28.68	22.61
				1	2	28.55	22.62
				1	5	28.57	22.58
				3	0	28.80	22.40
				3	1	28.70	22.45
				3	2	28.69	22.50
				6	0	28.40	21.71

LAT OUTPUT POWER FOR LTE BAND 5 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	20415	825.5	QPSK	1	0	28.64	23.84
				1	7	28.28	23.75
				1	14	28.56	23.80
				8	0	28.10	22.92
				8	4	27.80	22.74
				8	7	28.09	22.94
			16QAM	15	0	28.25	22.96
				1	0	28.30	22.57
				1	7	28.00	22.61
				1	14	28.37	22.60
				8	0	27.93	21.89
				8	4	27.67	21.78
				8	7	27.84	21.87
				15	0	28.46	21.89
				3.0	20525	836.5	QPSK
1	7	28.19	23.70				
1	14	28.38	23.77				
8	0	27.79	22.85				
8	4	27.67	22.83				
8	7	27.78	22.85				
16QAM	15	0	28.28				22.82
	1	0	28.03				22.67
	1	7	27.88				22.66
	1	14	28.04				22.46
	8	0	27.64				21.79
	8	4	27.44				21.61
	8	7	27.57				21.61
	15	0	27.91				21.80
	3.0	20635	847.5				QPSK
1				7	28.32	23.75	
1				14	28.49	23.86	
8				0	27.92	22.82	
8				4	27.92	22.94	
8				7	27.95	22.89	
16QAM				15	0	28.15	22.91
				1	0	28.18	22.60
				1	7	27.99	22.69
				1	14	28.31	22.61
				8	0	27.71	21.63
				8	4	27.68	21.70
				8	7	27.76	21.70
				15	0	28.01	21.76

LAT OUTPUT POWER FOR LTE BAND 5 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	20425	826.5	QPSK	1	0	28.52	23.79
				1	12	28.39	23.78
				1	24	28.37	23.73
				12	0	28.01	22.97
				12	6	27.84	22.90
				12	11	27.90	22.94
				25	0	28.37	22.90
			16QAM	1	0	28.60	22.62
				1	12	28.33	22.60
				1	24	28.44	22.70
				12	0	27.83	21.84
				12	6	27.69	21.79
				12	11	27.77	21.83
				25	0	28.60	21.95
5.0	20525	836.5	QPSK	1	0	28.33	23.75
				1	12	28.11	23.72
				1	24	28.34	23.73
				12	0	27.65	22.83
				12	6	27.57	22.82
				12	11	27.56	22.80
				25	0	28.24	22.85
			16QAM	1	0	28.31	22.65
				1	12	28.15	22.66
				1	24	28.40	22.55
				12	0	27.60	21.78
				12	6	27.39	21.72
				12	11	27.48	21.73
				25	0	28.42	21.73
5.0	20625	846.5	QPSK	1	0	28.52	23.76
				1	12	28.23	23.71
				1	24	28.45	23.87
				12	0	27.84	22.84
				12	6	27.75	22.85
				12	11	27.75	22.86
				25	0	28.54	22.90
			16QAM	1	0	28.54	22.65
				1	12	28.21	22.62
				1	24	28.47	22.66
				12	0	27.86	21.63
				12	6	27.65	21.77
				12	11	27.62	21.74
				25	0	28.36	21.71

LAT OUTPUT POWER FOR LTE BAND 5 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	20450	829.0	QPSK	1	0	28.35	23.82
				1	24	28.20	23.71
				1	49	28.08	23.71
				25	0	27.92	22.91
				25	12	27.86	22.92
				25	24	27.86	22.93
				50	0	28.77	22.88
			16QAM	1	0	28.07	22.63
				1	24	27.96	22.61
				1	49	27.81	22.61
				25	0	27.82	21.86
				25	12	27.70	21.87
				25	24	27.68	21.88
				50	0	28.11	21.91
10.0	20525	836.5	QPSK	1	0	28.12	23.76
				1	24	28.17	23.70
				1	49	28.14	24.00
				25	0	27.76	22.91
				25	12	27.64	22.87
				25	24	27.64	22.82
				50	0	28.78	22.86
			16QAM	1	0	27.80	22.65
				1	24	27.88	22.68
				1	49	27.86	22.57
				25	0	27.65	21.76
				25	12	27.54	21.78
				25	24	27.49	21.74
				50	0	28.22	21.79
10.0	20600	844.0	QPSK	1	0	28.10	23.74
				1	24	28.40	23.73
				1	49	28.37	23.89
				25	0	27.85	22.78
				25	12	27.91	22.92
				25	24	27.85	22.87
				50	0	28.17	22.95
			16QAM	1	0	27.82	22.64
				1	24	28.17	22.66
				1	49	27.91	22.68
				25	0	27.74	21.68
				25	12	27.73	21.78
				25	24	27.70	21.79
				50	0	28.87	21.79

UAT OUTPUT POWER FOR LTE BAND 5 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	20407	824.7	QPSK	1	0	28.43	23.60
				1	2	28.28	23.55
				1	5	28.39	23.58
				3	0	28.66	23.50
				3	1	28.62	23.48
				3	2	28.52	23.52
			16QAM	6	0	28.28	22.68
				1	0	28.57	22.67
				1	2	28.46	22.65
				1	5	28.58	22.69
				3	0	28.79	22.50
				3	1	28.63	22.51
				3	2	28.54	22.60
				6	0	28.29	21.67
1.4	20525	836.5	QPSK	1	0	28.11	23.58
				1	2	27.93	23.53
				1	5	28.07	23.57
				3	0	28.40	23.40
				3	1	28.28	23.45
				3	2	28.22	23.48
			16QAM	6	0	27.93	22.66
				1	0	28.18	22.66
				1	2	28.10	22.67
				1	5	28.22	22.70
				3	0	28.42	22.60
				3	1	28.20	22.50
				3	2	28.15	22.61
				6	0	27.88	21.61
1.4	20643	848.3	QPSK	1	0	28.02	23.40
				1	2	27.88	23.41
				1	5	28.07	23.40
				3	0	28.24	23.30
				3	1	28.15	23.35
				3	2	28.16	23.36
			16QAM	6	0	27.78	22.52
				1	0	28.14	22.48
				1	2	28.05	22.48
				1	5	28.24	22.52
				3	0	28.35	22.40
				3	1	28.20	22.45
				3	2	28.18	22.48
				6	0	27.80	21.57

UAT OUTPUT POWER FOR LTE BAND 5 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	20415	825.5	QPSK	1	0	28.36	23.57
				1	7	28.18	23.51
				1	14	28.39	23.55
				8	0	27.70	22.53
				8	4	27.79	22.57
				8	7	27.84	22.56
			16QAM	15	0	28.01	22.67
				1	0	28.05	22.47
				1	7	27.87	22.42
				1	14	28.08	22.49
				8	0	27.61	21.67
				8	4	27.43	21.66
				8	7	27.46	21.67
				15	0	28.07	21.67
				3.0	20525	836.5	QPSK
1	7	27.87	23.51				
1	14	28.03	23.50				
8	0	27.50	22.67				
8	4	27.44	22.65				
8	7	27.49	22.61				
16QAM	15	0	28.15				22.70
	1	0	27.75				22.53
	1	7	27.59				22.48
	1	14	27.71				22.45
	8	0	27.20				21.66
	8	4	27.11				21.67
	8	7	27.22				21.68
	15	0	28.11				21.70
	3.0	20635	847.5				QPSK
1				7	27.93	23.44	
1				14	27.99	23.41	
8				0	27.62	22.64	
8				4	27.52	22.57	
8				7	27.45	22.45	
16QAM				15	0	27.82	22.60
				1	0	27.94	22.46
				1	7	27.65	22.39
				1	14	27.73	22.33
				8	0	27.45	21.66
				8	4	27.35	21.64
				8	7	27.23	21.53
				15	0	28.05	21.64

UAT OUTPUT POWER FOR LTE BAND 5 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	20425	826.5	QPSK	1	0	28.24	23.49
				1	12	28.12	23.48
				1	24	28.35	23.57
				12	0	27.92	22.55
				12	6	27.76	22.57
				12	11	27.82	22.57
				25	0	28.40	22.66
			16QAM	1	0	28.40	22.65
				1	12	28.26	22.65
				1	24	28.48	22.65
				12	0	27.64	21.65
				12	6	27.45	21.60
				12	11	27.54	21.62
				25	0	28.43	21.67
5.0	20525	836.5	QPSK	1	0	28.00	23.53
				1	12	27.79	23.50
				1	24	28.04	23.51
				12	0	27.62	22.66
				12	6	27.45	22.66
				12	11	27.48	22.64
				25	0	28.06	22.68
			16QAM	1	0	28.14	22.66
				1	12	27.95	22.68
				1	24	28.17	22.66
				12	0	27.29	21.65
				12	6	27.16	21.61
				12	11	27.23	21.67
				25	0	27.84	21.68
5.0	20625	846.5	QPSK	1	0	28.28	23.51
				1	12	27.94	23.45
				1	24	27.93	23.41
				12	0	27.88	22.66
				12	6	27.66	22.59
				12	11	27.51	22.56
				25	0	28.23	22.62
			16QAM	1	0	28.54	22.57
				1	12	28.12	22.54
				1	24	28.09	22.55
				12	0	27.69	21.68
				12	6	27.39	21.59
				12	11	27.36	21.57
				25	0	28.31	21.63

UAT OUTPUT POWER FOR LTE BAND 5 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	20450	829.0	QPSK	1	0	28.15	23.50
				1	24	28.21	23.53
				1	49	27.83	23.51
				25	0	27.87	22.57
				25	12	27.74	22.60
				25	24	27.73	22.58
				50	0	28.12	22.66
			16QAM	1	0	27.81	22.40
				1	24	27.93	22.47
				1	49	27.53	22.49
				25	0	27.66	21.62
				25	12	27.57	21.67
				25	24	27.55	21.66
				50	0	28.11	21.67
10.0	20525	836.5	QPSK	1	0	27.85	23.54
				1	24	27.87	23.48
				1	49	27.92	23.45
				25	0	27.48	22.67
				25	12	27.37	22.65
				25	24	27.54	22.67
				50	0	28.41	22.68
			16QAM	1	0	27.60	22.50
				1	24	27.60	22.44
				1	49	27.69	22.40
				25	0	27.38	21.70
				25	12	27.32	21.68
				25	24	27.36	21.63
				50	0	27.92	21.63
10.0	20600	844.0	QPSK	1	0	27.82	23.47
				1	24	28.10	23.42
				1	49	27.71	23.41
				25	0	27.71	22.58
				25	12	27.74	22.57
				25	24	27.85	22.67
				50	0	28.71	22.58
			16QAM	1	0	27.55	22.37
				1	24	27.88	22.34
				1	49	27.42	22.31
				25	0	27.62	21.61
				25	12	27.64	21.59
				25	24	27.59	21.68
				50	0	28.04	21.56

7.4. LTE BAND 13

LAT OUTPUT POWER FOR LTE BAND 13 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	23207	779.5	QPSK	1	0	28.00	23.74
				1	12	28.34	23.73
				1	24	28.40	23.77
				12	0	27.99	22.87
				12	6	27.90	22.87
				12	11	27.86	22.87
				25	0	28.35	22.85
			16QAM	1	0	28.05	22.76
				1	12	28.34	22.72
				1	24	28.43	22.64
				12	0	27.97	21.82
				12	6	27.78	21.81
				12	11	27.75	21.81
				25	0	28.35	21.78
5.0	23230	782.0	QPSK	1	0	28.32	23.74
				1	12	28.39	23.73
				1	24	28.37	23.77
				12	0	27.90	22.87
				12	6	27.89	22.87
				12	11	27.90	22.87
				25	0	28.47	22.85
			16QAM	1	0	28.36	22.76
				1	12	28.38	22.77
				1	24	28.40	22.74
				12	0	27.88	21.82
				12	6	27.79	21.81
				12	11	27.83	21.81
				25	0	28.48	21.88
5.0	23255	784.5	QPSK	1	0	28.42	23.74
				1	12	28.41	23.73
				1	24	28.39	23.77
				12	0	28.05	22.87
				12	6	27.92	22.87
				12	11	27.94	22.87
				25	0	28.48	22.85
			16QAM	1	0	28.40	22.76
				1	12	28.39	22.77
				1	24	28.41	22.64
				12	0	27.96	21.82
				12	6	27.77	21.81
				12	11	27.83	21.81
				25	0	28.31	21.88

LAT OUTPUT POWER FOR LTE BAND 13 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	23230	782.0	QPSK	1	0	28.09	23.77
				1	24	28.43	23.81
				1	49	28.45	23.87
				25	0	28.13	22.93
				25	12	27.98	22.92
				25	24	28.11	22.89
				50	0	28.13	22.92
			16QAM	1	0	28.13	22.76
				1	24	28.14	22.65
				1	49	28.29	22.78
				25	0	28.10	21.86
				25	12	27.83	21.86
				25	24	27.93	21.83
				50	0	28.73	21.86

UAT OUTPUT POWER FOR LTE BAND 13 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	23207	779.5	QPSK	1	0	28.42	23.61
				1	12	28.14	23.58
				1	24	28.27	23.51
				12	0	27.95	22.57
				12	6	27.82	22.58
				12	11	27.80	22.44
				25	0	28.57	22.67
			16QAM	1	0	28.63	22.40
				1	12	28.35	22.55
				1	24	28.40	22.63
				12	0	27.82	21.46
				12	6	27.65	21.50
				12	11	27.64	21.52
				25	0	28.27	21.54
5.0	23230	782.0	QPSK	1	0	28.21	23.61
				1	12	28.16	23.58
				1	24	28.33	23.56
				12	0	27.93	22.57
				12	6	27.78	22.68
				12	11	27.79	22.59
				25	0	28.45	22.67
			16QAM	1	0	28.34	22.55
				1	12	28.30	22.65
				1	24	28.55	22.63
				12	0	27.71	21.56
				12	6	27.59	21.55
				12	11	27.68	21.57
				25	0	28.46	21.59
5.0	23255	784.5	QPSK	1	0	28.24	23.61
				1	12	28.25	23.58
				1	24	28.37	23.56
				12	0	27.96	22.57
				12	6	27.95	22.68
				12	11	27.94	22.54
				25	0	28.58	22.67
			16QAM	1	0	28.40	22.55
				1	12	28.43	22.65
				1	24	28.51	22.68
				12	0	27.77	21.56
				12	6	27.87	21.55
				12	11	27.86	21.57
				25	0	28.71	21.59

UAT OUTPUT POWER FOR LTE BAND 13 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	23230	782.0	QPSK	1	0	28.36	23.61
				1	24	28.24	23.55
				1	49	28.40	23.56
				25	0	28.03	22.58
				25	12	27.96	22.70
				25	24	28.01	22.54
				50	0	28.64	22.66
			16QAM	1	0	28.10	22.54
				1	24	27.87	22.50
				1	49	27.91	22.50
				25	0	27.94	21.55
				25	12	27.81	21.57
				25	24	27.95	21.59
				50	0	28.20	21.58

7.5. LTE BAND 17

LAT OUTPUT POWER FOR LTE BAND 17 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	23755	706.5	QPSK	1	0	27.11	23.80
				1	12	28.41	23.76
				1	24	28.79	23.90
				12	0	27.31	22.96
				12	6	27.88	22.94
				12	11	28.11	22.96
				25	0	27.81	22.90
			16QAM	1	0	27.11	22.75
				1	12	28.20	22.80
				1	24	28.87	22.74
				12	0	27.26	21.88
				12	6	27.28	21.87
				12	11	28.02	21.98
				25	0	28.67	21.96
5.0	23790	710.0	QPSK	1	0	28.61	23.78
				1	12	28.70	23.83
				1	24	28.78	23.87
				12	0	28.16	22.96
				12	6	28.25	23.00
				12	11	28.27	22.97
				25	0	28.68	22.98
			16QAM	1	0	28.66	22.79
				1	12	28.78	22.74
				1	24	28.89	22.77
				12	0	28.18	21.93
				12	6	28.12	21.94
				12	11	28.19	21.95
				25	0	28.93	21.98
5.0	23825	713.5	QPSK	1	0	28.77	23.86
				1	12	27.39	23.79
				1	24	27.54	23.81
				12	0	28.17	22.97
				12	6	27.54	22.97
				12	11	27.49	22.94
				25	0	28.84	22.98
			16QAM	1	0	28.78	22.79
				1	12	27.69	22.79
				1	24	28.04	22.79
				12	0	28.19	21.94
				12	6	27.50	21.91
				12	11	27.50	21.91
				25	0	28.62	21.93

LAT OUTPUT POWER FOR LTE BAND 17 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	23780	709.0	QPSK	1	0	27.13	23.75
				1	24	28.71	23.85
				1	49	27.45	23.82
				25	0	28.03	22.93
				25	12	28.28	22.96
				25	24	28.36	22.99
				50	0	29.15	22.97
			16QAM	1	0	27.14	22.76
				1	24	27.22	22.80
				1	49	27.49	22.74
				25	0	27.93	21.91
				25	12	28.13	21.96
				25	24	28.28	21.97
				50	0	28.47	21.98
10.0	23790	710.0	QPSK	1	0	27.28	23.71
				1	24	28.77	23.87
				1	49	27.32	23.79
				25	0	28.24	22.99
				25	12	28.33	22.98
				25	24	28.21	22.99
				50	0	29.03	23.00
			16QAM	1	0	27.14	22.70
				1	24	27.27	22.74
				1	49	27.36	22.78
				25	0	28.27	21.96
				25	12	28.27	21.97
				25	24	28.13	21.99
				50	0	29.35	21.97
10.0	23800	711.0	QPSK	1	0	27.16	23.73
				1	24	28.78	23.87
				1	49	27.39	23.81
				25	0	28.24	22.99
				25	12	28.29	22.90
				25	24	28.29	22.95
				50	0	29.18	22.93
			16QAM	1	0	27.16	22.70
				1	24	28.02	22.76
				1	49	27.42	22.76
				25	0	28.21	22.00
				25	12	28.23	21.98
				25	24	28.20	21.99
				50	0	29.25	21.99

UAT OUTPUT POWER FOR LTE BAND 17 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	23755	706.5	QPSK	1	0	27.00	23.70
				1	12	28.26	23.64
				1	24	28.51	23.66
				12	0	27.21	22.67
				12	6	27.56	22.67
				12	11	27.96	22.59
				25	0	27.89	22.67
			16QAM	1	0	26.99	22.29
				1	12	27.48	22.29
				1	24	28.63	22.18
				12	0	27.15	21.15
				12	6	27.18	21.22
				12	11	27.63	21.26
				25	0	27.68	21.27
5.0	23790	710.0	QPSK	1	0	28.46	23.62
				1	12	28.42	23.59
				1	24	27.24	23.63
				12	0	28.13	22.67
				12	6	28.05	22.67
				12	11	28.10	22.57
				25	0	28.49	22.64
			16QAM	1	0	28.57	22.26
				1	12	28.56	22.25
				1	24	27.91	22.16
				12	0	27.90	21.15
				12	6	27.87	21.25
				12	11	27.88	21.25
				25	0	28.53	21.27
5.0	23825	713.5	QPSK	1	0	28.02	23.60
				1	12	27.29	23.62
				1	24	28.29	23.67
				12	0	28.01	22.69
				12	6	27.39	22.68
				12	11	27.37	22.59
				25	0	27.91	22.67
			16QAM	1	0	28.69	22.27
				1	12	27.29	22.27
				1	24	27.43	22.19
				12	0	27.38	21.17
				12	6	27.39	21.24
				12	11	27.37	21.24
				25	0	27.84	21.24

UAT OUTPUT POWER FOR LTE BAND 17 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	23780	709.0	QPSK	1	0	27.00	23.67
				1	24	28.46	23.58
				1	49	27.34	23.63
				25	0	27.96	22.67
				25	12	27.97	22.64
				25	24	28.10	22.54
				50	0	28.32	22.69
			16QAM	1	0	27.01	22.26
				1	24	27.12	22.27
				1	49	27.34	22.15
				25	0	27.21	21.18
				25	12	28.03	21.20
				25	24	28.12	21.30
				50	0	28.74	21.28
10.0	23790	710.0	QPSK	1	0	28.37	23.68
				1	24	28.52	23.62
				1	49	27.17	23.68
				25	0	28.21	22.67
				25	12	28.21	22.70
				25	24	27.42	22.54
				50	0	28.34	22.66
			16QAM	1	0	27.03	22.29
				1	24	27.16	22.28
				1	49	27.17	22.17
				25	0	28.01	21.18
				25	12	28.02	21.29
				25	24	27.41	21.26
				50	0	28.81	21.24
10.0	23800	711.0	QPSK	1	0	27.04	23.65
				1	24	28.52	23.59
				1	49	27.28	23.70
				25	0	28.08	22.67
				25	12	28.25	22.66
				25	24	28.13	22.58
				50	0	28.48	22.67
			16QAM	1	0	27.02	22.27
				1	24	27.11	22.24
				1	49	27.28	22.15
				25	0	28.02	21.19
				25	12	28.07	21.26
				25	24	27.97	21.25
				50	0	28.35	21.27

7.6. LTE BAND 25

LAT OUTPUT POWER FOR LTE BAND 25 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	26047	1850.7	QPSK	1	0	26.56	23.32
				1	2	26.51	23.32
				1	5	26.56	23.36
				3	0	26.77	23.25
				3	1	26.68	23.20
				3	2	26.69	23.26
			16QAM	6	0	26.65	22.12
				1	0	26.57	22.11
				1	2	26.52	22.13
				1	5	26.61	22.13
				3	0	26.68	22.10
				3	1	26.65	22.05
				3	2	26.68	22.00
				6	0	26.62	21.10
1.4	26365	1882.5	QPSK	1	0	27.30	23.37
				1	2	27.19	23.30
				1	5	27.29	23.28
				3	0	27.54	23.41
				3	1	27.46	23.30
				3	2	27.46	23.28
			16QAM	6	0	27.56	22.37
				1	0	27.29	22.32
				1	2	27.21	22.34
				1	5	27.35	22.28
				3	0	27.40	22.25
				3	1	27.36	22.20
				3	2	27.38	22.18
				6	0	27.55	21.47
1.4	26683	1914.3	QPSK	1	0	26.63	23.10
				1	2	26.54	23.11
				1	5	26.52	23.13
				3	0	26.72	23.16
				3	1	26.69	23.09
				3	2	26.71	23.15
			16QAM	6	0	26.58	22.15
				1	0	26.65	22.15
				1	2	26.55	22.11
				1	5	26.56	22.11
				3	0	26.70	22.15
				3	1	26.66	22.11
				3	2	26.67	22.09
				6	0	26.58	21.31

LAT OUTPUT POWER FOR LTE BAND 25 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	26055	1851.5	QPSK	1	0	28.23	23.37
				1	7	27.94	23.24
				1	14	28.26	23.33
				8	0	27.50	22.36
				8	4	27.39	22.35
				8	7	27.47	22.39
			16QAM	15	0	27.72	22.34
				1	0	27.78	22.24
				1	7	26.60	22.20
				1	14	26.88	22.28
				8	0	27.27	21.39
				8	4	27.22	21.33
				8	7	27.29	21.39
				15	0	27.99	21.34
				3.0	26365	1882.5	QPSK
1	7	27.17	23.22				
1	14	27.42	23.25				
8	0	27.33	22.39				
8	4	27.36	22.39				
8	7	27.35	22.30				
16QAM	15	0	27.58				22.34
	1	0	27.26				22.23
	1	7	27.21				22.11
	1	14	27.44				22.18
	8	0	27.26				21.45
	8	4	27.31				21.46
	8	7	27.35				21.40
	15	0	27.58				21.41
	3.0	26675	1913.5				QPSK
1				7	26.57	23.12	
1				14	26.53	23.11	
8				0	26.50	22.17	
8				4	26.19	22.10	
8				7	26.28	22.12	
16QAM				15	0	26.83	22.19
				1	0	26.55	22.11
				1	7	26.37	22.02
				1	14	26.56	22.10
				8	0	25.92	21.21
				8	4	25.99	21.21
				8	7	26.07	21.21
				15	0	26.66	21.21

LAT OUTPUT POWER FOR LTE BAND 25 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	26065	1852.5	QPSK	1	0	28.11	23.31
				1	12	27.86	23.31
				1	24	26.96	23.36
				12	0	27.59	22.36
				12	6	27.42	22.34
				12	11	27.00	22.36
				25	0	28.14	22.39
			16QAM	1	0	28.12	22.35
				1	12	27.28	22.31
				1	24	27.30	22.34
				12	0	27.42	21.39
				12	6	26.89	21.39
				12	11	26.99	21.36
				25	0	28.13	21.33
5.0	26365	1882.5	QPSK	1	0	27.15	23.27
				1	12	27.17	23.21
				1	24	27.43	23.24
				12	0	27.31	22.43
				12	6	27.34	22.38
				12	11	27.38	22.33
				25	0	27.70	22.33
			16QAM	1	0	27.18	22.37
				1	12	27.19	22.38
				1	24	27.45	22.36
				12	0	27.25	21.37
				12	6	27.25	21.38
				12	11	27.34	21.23
				25	0	27.71	21.57
5.0	26665	1912.5	QPSK	1	0	26.74	23.07
				1	12	26.56	23.10
				1	24	26.55	23.12
				12	0	26.41	22.19
				12	6	26.16	22.15
				12	11	26.29	22.13
				25	0	26.83	22.13
			16QAM	1	0	26.82	22.33
				1	12	26.62	22.23
				1	24	26.60	22.26
				12	0	26.11	21.15
				12	6	26.06	21.21
				12	11	26.08	21.20
				25	0	26.78	21.26

LAT OUTPUT POWER FOR LTE BAND 25 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	26090	1855.0	QPSK	1	0	27.15	23.37
				1	24	27.45	23.32
				1	49	27.78	23.30
				25	0	27.36	22.37
				25	12	27.55	22.34
				25	24	27.53	22.37
			16QAM	50	0	27.94	22.39
				1	0	27.14	22.21
				1	24	27.47	22.17
				1	49	27.61	22.19
				25	0	27.38	21.37
				25	12	27.39	21.33
				25	24	27.38	21.36
				50	0	27.92	21.35
10.0	26365	1882.5	QPSK	1	0	27.82	23.40
				1	24	27.91	23.44
				1	49	28.10	23.50
				25	0	27.66	22.46
				25	12	27.76	22.40
				25	24	27.78	22.38
			16QAM	50	0	27.71	22.32
				1	0	27.79	22.28
				1	24	27.84	22.30
				1	49	27.87	22.37
				25	0	27.66	21.40
				25	12	27.62	21.45
				25	24	27.61	21.46
				50	0	28.08	21.46
10.0	26640	1910.0	QPSK	1	0	27.07	23.18
				1	24	26.87	23.30
				1	49	27.15	23.39
				25	0	26.56	22.28
				25	12	26.49	22.29
				25	24	26.71	22.30
			16QAM	50	0	27.44	22.15
				1	0	26.70	22.31
				1	24	26.49	22.26
				1	49	26.75	22.26
				25	0	26.45	21.33
				25	12	26.25	21.25
				25	24	26.48	21.27
				50	0	26.48	21.49

LAT OUTPUT POWER FOR LTE BAND 25 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	26115	1857.5	QPSK	1	0	28.02	23.21
				1	37	27.11	23.21
				1	74	26.94	23.21
				36	0	27.67	22.36
				36	16	27.17	22.39
				36	35	27.21	22.34
				75	0	27.58	22.33
			16-QAM	1	0	26.52	22.14
				1	37	27.13	22.11
				1	74	26.94	22.11
				36	0	27.64	21.37
				36	16	27.19	21.35
				36	35	27.21	21.33
				75	0	27.45	21.35
15.0	26365	1882.5	QPSK	1	0	26.85	23.22
				1	37	27.14	23.21
				1	74	27.44	23.24
				36	0	27.16	22.44
				36	16	27.31	22.48
				36	35	27.38	22.36
				75	0	27.81	22.30
			16-QAM	1	0	26.84	22.11
				1	37	27.17	22.11
				1	74	27.47	22.12
				36	0	27.15	21.47
				36	16	27.31	21.50
				36	35	27.39	21.39
				75	0	27.64	21.57
15.0	26615	1907.5	QPSK	1	0	26.83	23.04
				1	37	26.74	23.11
				1	74	26.56	23.10
				36	0	26.61	22.24
				36	16	26.35	22.27
				36	35	26.31	22.19
				75	0	27.09	22.28
			16-QAM	1	0	26.40	22.11
				1	37	26.39	22.00
				1	74	26.44	22.11
				36	0	26.50	21.23
				36	16	26.27	21.26
				36	35	26.30	21.21
				75	0	26.97	21.26

LAT OUTPUT POWER FOR LTE BAND 25 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	26140	1860.0	QPSK	1	0	28.19	23.35
				1	49	27.09	23.34
				1	99	28.11	23.37
				50	0	27.72	22.36
				50	24	27.12	22.38
				50	49	27.04	22.33
				100	0	27.13	22.30
			16-QAM	1	0	27.87	22.11
				1	49	27.09	22.10
				1	99	26.65	22.20
				50	0	27.54	21.37
				50	24	27.10	21.36
				50	49	27.03	21.39
				100	0	27.19	21.40
20.0	26365	1882.5	QPSK	1	0	28.11	23.32
				1	49	27.12	23.37
				1	99	27.33	23.39
				50	0	27.72	22.39
				50	24	27.26	22.48
				50	49	27.38	22.39
				100	0	27.56	22.33
			16-QAM	1	0	26.63	22.11
				1	49	27.14	22.12
				1	99	27.36	22.15
				50	0	27.61	21.42
				50	24	27.29	21.42
				50	49	27.39	21.42
				100	0	27.51	21.49
20.0	26590	1905.0	QPSK	1	0	26.94	23.19
				1	49	26.92	23.15
				1	99	26.50	23.15
				50	0	26.76	22.26
				50	24	26.36	22.19
				50	49	26.49	22.18
				100	0	27.09	22.20
			16-QAM	1	0	26.68	22.11
				1	49	26.60	22.00
				1	99	26.54	22.10
				50	0	26.55	21.24
				50	24	26.46	21.26
				50	49	26.54	21.25
				100	0	27.33	21.26

UAT OUTPUT POWER FOR LTE BAND 25 (1.4MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
1.4	26047	1850.7	QPSK	1	0	26.67	23.04
				1	2	26.60	23.03
				1	5	26.74	23.06
				3	0	27.25	23.00
				3	1	26.86	22.99
				3	2	26.90	23.01
				6	0	27.09	22.11
			16QAM	1	0	27.61	21.96
				1	2	26.75	21.95
				1	5	27.31	22.09
				3	0	27.24	21.80
				3	1	26.74	21.85
				3	2	26.75	21.82
				6	0	27.08	21.14
1.4	26365	1882.5	QPSK	1	0	27.41	23.24
				1	2	27.34	23.19
				1	5	27.47	23.29
				3	0	27.59	23.10
				3	1	27.81	23.05
				3	2	27.60	23.12
				6	0	27.55	22.22
			16QAM	1	0	27.40	21.96
				1	2	27.35	21.95
				1	5	27.49	21.98
				3	0	27.47	21.80
				3	1	27.44	21.75
				3	2	27.49	21.76
				6	0	27.50	21.29
1.4	26683	1914.3	QPSK	1	0	26.74	23.16
				1	2	26.54	23.39
				1	5	26.77	23.25
				3	0	26.87	23.12
				3	1	26.83	23.20
				3	2	26.84	23.25
				6	0	26.39	22.30
			16QAM	1	0	26.77	21.98
				1	2	26.64	21.99
				1	5	26.77	21.98
				3	0	26.87	21.70
				3	1	26.78	21.75
				3	2	26.80	21.80
				6	0	26.51	21.37

UAT OUTPUT POWER FOR LTE BAND 25 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	26055	1851.5	QPSK	1	0	26.70	23.05
				1	7	26.71	23.01
				1	14	27.03	23.06
				8	0	26.84	22.05
				8	4	26.90	22.08
				8	7	26.94	22.04
			16QAM	15	0	27.38	22.07
				1	0	26.65	21.98
				1	7	26.72	21.84
				1	14	27.01	21.92
				8	0	26.66	21.07
				8	4	26.76	21.08
				8	7	26.77	21.07
				15	0	27.24	21.06
				3.0	26365	1882.5	QPSK
1	7	27.33	23.14				
1	14	27.61	23.09				
8	0	27.32	22.20				
8	4	27.33	22.19				
8	7	27.44	22.26				
16QAM	15	0	27.63				22.19
	1	0	27.40				21.95
	1	7	27.38				21.99
	1	14	27.60				21.98
	8	0	27.05				21.27
	8	4	27.10				21.24
	8	7	27.21				21.24
	15	0	27.57				21.27
	3.0	26675	1913.5				QPSK
1				7	26.32	23.26	
1				14	26.78	23.22	
8				0	25.85	22.09	
8				4	25.80	22.39	
8				7	25.92	22.27	
16QAM				15	0	26.11	22.27
				1	0	26.15	21.99
				1	7	25.94	21.98
				1	14	26.33	21.97
				8	0	25.63	21.34
				8	4	25.63	21.33
				8	7	25.87	21.35
				15	0	26.36	21.37

UAT OUTPUT POWER FOR LTE BAND 25 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	26065	1852.5	QPSK	1	0	26.66	23.02
				1	12	26.89	22.99
				1	24	27.19	23.08
				12	0	26.87	22.07
				12	6	26.94	22.08
				12	11	27.09	22.08
				25	0	27.31	22.09
			16QAM	1	0	26.66	21.97
				1	12	26.91	21.94
				1	24	27.22	22.08
				12	0	26.80	21.05
				12	6	26.78	21.00
				12	11	26.92	21.00
				25	0	27.32	21.20
5.0	26365	1882.5	QPSK	1	0	27.26	23.24
				1	12	27.31	23.14
				1	24	27.65	23.07
				12	0	27.34	22.27
				12	6	27.32	22.22
				12	11	27.44	22.20
				25	0	27.68	22.19
			16QAM	1	0	27.28	21.96
				1	12	27.35	21.97
				1	24	27.65	21.98
				12	0	27.26	21.28
				12	6	27.23	21.22
				12	11	27.22	21.19
				25	0	27.58	21.26
5.0	26665	1912.5	QPSK	1	0	26.54	23.09
				1	12	26.26	23.28
				1	24	26.63	23.17
				12	0	26.07	22.10
				12	6	25.81	22.36
				12	11	25.88	22.23
				25	0	26.51	22.29
			16QAM	1	0	26.60	21.92
				1	12	26.38	21.94
				1	24	26.68	21.97
				12	0	25.94	21.30
				12	6	25.72	21.31
				12	11	25.73	21.36
				25	0	26.83	21.38

UAT OUTPUT POWER FOR LTE BAND 25 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	26090	1855.0	QPSK	1	0	26.69	23.02
				1	24	27.15	23.06
				1	49	27.71	23.07
				25	0	27.08	22.04
				25	12	27.28	22.13
				25	24	27.39	22.08
				50	0	27.66	22.07
			16QAM	1	0	26.70	21.83
				1	24	27.15	21.89
				1	49	27.50	21.90
				25	0	26.98	21.10
				25	12	27.18	21.09
				25	24	27.27	21.12
				50	0	27.63	21.05
10.0	26365	1882.5	QPSK	1	0	27.07	23.24
				1	24	27.29	23.18
				1	49	27.82	23.08
				25	0	27.32	22.24
				25	12	27.39	22.27
				25	24	27.53	22.18
				50	0	27.44	22.27
			16QAM	1	0	27.08	21.93
				1	24	27.28	21.99
				1	49	27.68	21.96
				25	0	27.26	21.32
				25	12	27.38	21.21
				25	24	27.35	21.16
				50	0	27.76	21.26
10.0	26640	1910.0	QPSK	1	0	26.49	23.06
				1	24	26.51	23.32
				1	49	26.61	23.14
				25	0	26.05	22.12
				25	12	25.97	22.36
				25	24	26.07	22.30
				50	0	26.55	22.29
			16QAM	1	0	26.09	21.91
				1	24	26.11	21.98
				1	49	26.22	21.96
				25	0	26.09	21.30
				25	12	25.94	21.33
				25	24	26.00	21.39
				50	0	26.07	21.31

UAT OUTPUT POWER FOR LTE BAND 25 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	26115	1857.5	QPSK	1	0	26.66	23.04
				1	37	27.46	23.08
				1	74	27.54	23.09
				36	0	27.20	22.08
				36	16	27.41	22.19
				36	35	27.42	22.04
				75	0	27.72	22.24
			16-QAM	1	0	26.65	21.84
				1	37	27.43	21.88
				1	74	27.47	21.98
				36	0	27.16	21.05
				36	16	27.31	21.08
				36	35	27.30	21.16
				75	0	27.61	21.13
15.0	26365	1882.5	QPSK	1	0	26.97	23.24
				1	37	27.31	23.18
				1	74	27.83	23.07
				36	0	27.26	22.28
				36	16	27.39	22.31
				36	35	27.48	22.24
				75	0	27.82	22.24
			16-QAM	1	0	26.97	21.96
				1	37	27.34	21.94
				1	74	27.58	21.84
				36	0	27.23	21.36
				36	16	27.33	21.27
				36	35	27.42	21.20
				75	0	27.80	21.28
15.0	26615	1907.5	QPSK	1	0	26.53	23.16
				1	37	26.43	23.26
				1	74	26.66	23.20
				36	0	26.23	22.07
				36	16	25.96	22.34
				36	35	26.04	22.30
				75	0	26.84	22.20
			16-QAM	1	0	26.11	21.97
				1	37	26.09	22.00
				1	74	26.20	21.97
				36	0	26.19	21.35
				36	16	25.99	21.37
				36	35	26.03	21.36
				75	0	26.77	21.38

UAT OUTPUT POWER FOR LTE BAND 25 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	26140	1860.0	QPSK	1	0	26.91	23.07
				1	49	27.60	23.16
				1	99	27.08	23.07
				50	0	27.25	22.07
				50	24	27.37	22.20
				50	49	27.39	22.08
				100	0	27.42	22.11
			16-QAM	1	0	26.58	21.80
				1	49	27.51	21.92
				1	99	27.09	22.05
				50	0	27.15	21.06
				50	24	27.16	21.04
				50	49	27.36	21.30
				100	0	27.23	21.16
20.0	26365	1882.5	QPSK	1	0	26.84	23.34
				1	49	27.29	23.26
				1	99	27.78	23.21
				50	0	27.16	22.25
				50	24	27.40	22.35
				50	49	27.56	22.29
				100	0	27.49	22.27
			16-QAM	1	0	26.83	21.97
				1	49	27.26	21.99
				1	99	27.77	21.92
				50	0	27.16	21.35
				50	24	27.35	21.28
				50	49	27.53	21.20
				100	0	27.61	21.28
20.0	26590	1905.0	QPSK	1	0	26.64	23.19
				1	49	26.56	23.36
				1	99	26.76	23.27
				50	0	26.41	22.15
				50	24	26.00	22.38
				50	49	26.21	22.26
				100	0	26.41	22.25
			16-QAM	1	0	26.34	21.98
				1	49	26.13	21.98
				1	99	26.48	22.00
				50	0	26.26	21.38
				50	24	26.16	21.40
				50	49	26.21	21.39
				100	0	27.12	21.39

7.7. LTE BAND 26

LAT OUTPUT POWER FOR LTE BAND 26 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	26705	820.3	QPSK	1	0	27.53	22.89
				1	7	27.37	22.80
				1	14	27.62	22.84
				8	0	27.01	22.02
				8	4	26.91	21.99
				8	7	26.96	21.97
			16QAM	15	0	27.40	21.97
				1	0	27.22	21.81
				1	7	27.09	21.72
				1	14	27.28	21.75
				8	0	26.67	21.00
				8	4	26.67	21.00
				8	7	26.74	20.97
				15	0	27.43	20.97
				3.0	26865	821.3	QPSK
1	7	27.38	22.76				
1	14	27.65	22.82				
8	0	27.06	21.97				
8	4	27.06	21.99				
8	7	27.03	21.97				
16QAM	15	0	27.28				21.94
	1	0	27.28				21.83
	1	7	27.16				21.75
	1	14	27.34				21.76
	8	0	26.84				20.98
	8	4	26.83				20.98
	8	7	26.90				20.98
	15	0	27.47				20.98
	3.0	27025	822.3				QPSK
1				7	27.50	22.79	
1				14	27.69	22.84	
8				0	27.09	21.95	
8				4	27.07	21.96	
8				7	27.16	21.99	
16QAM				15	0	27.62	21.99
				1	0	27.34	21.81
				1	7	27.21	21.74
				1	14	27.37	21.77
				8	0	26.83	20.97
				8	4	26.80	20.98
				8	7	26.78	20.95
				15	0	27.50	20.96

LAT OUTPUT POWER FOR LTE BAND 26 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	26865	821.3	QPSK	1	0	27.48	22.86
				1	12	27.37	22.81
				1	24	27.62	22.82
				12	0	27.13	22.00
				12	6	27.11	21.97
				12	11	27.08	21.94
				25	0	27.58	21.96
			16QAM	1	0	27.58	21.99
				1	12	27.48	21.98
				1	24	27.72	22.00
				12	0	26.87	20.95
				12	6	26.73	20.89
				12	11	26.86	20.90
				25	0	27.45	20.90

LAT OUTPUT POWER FOR LTE BAND 26 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	26740	819.0	QPSK	1	0	27.00	22.85
				1	24	27.39	22.87
				1	49	27.00	22.93
				25	0	27.64	21.76
				25	12	27.66	21.77
				25	24	27.58	21.71
				50	0	27.70	21.84
			16QAM	1	0	26.50	21.64
				1	24	26.65	21.77
				1	49	26.51	21.76
				25	0	26.72	20.73
				25	12	26.61	20.76
				25	24	26.58	20.70
				50	0	26.70	20.60

UAT OUTPUT POWER FOR LTE BAND 26 (3.0 MHZ)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
3.0	26705	820.3	QPSK	1	0	27.46	22.84
				1	7	27.46	22.79
				1	14	27.64	22.79
				8	0	26.95	21.94
				8	4	27.04	21.94
				8	7	27.05	21.87
				15	0	27.40	21.96
			16QAM	1	0	27.21	21.80
				1	7	27.09	21.69
				1	14	27.32	21.72
				8	0	26.72	20.97
				8	4	26.71	20.96
				8	7	26.81	20.94
				15	0	27.18	20.96
3.0	26865	821.3	QPSK	1	0	27.57	22.83
				1	7	27.45	22.75
				1	14	27.74	22.81
				8	0	26.99	21.89
				8	4	27.01	21.91
				8	7	26.95	21.86
				15	0	27.31	21.94
			16QAM	1	0	27.24	21.72
				1	7	27.12	21.66
				1	14	27.41	21.71
				8	0	26.86	20.97
				8	4	26.84	20.94
				8	7	26.81	20.96
				15	0	27.58	20.97
3.0	27025	822.3	QPSK	1	0	27.67	22.85
				1	7	27.52	22.74
				1	14	27.76	22.80
				8	0	27.19	21.91
				8	4	27.17	21.88
				8	7	27.21	21.86
				15	0	27.37	21.92
			16QAM	1	0	27.32	21.73
				1	7	27.26	21.70
				1	14	27.40	21.68
				8	0	26.76	20.96
				8	4	26.77	20.95
				8	7	26.86	20.94
				15	0	27.21	20.89

UAT OUTPUT POWER FOR LTE BAND 26 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	26865	821.3	QPSK	1	0	27.43	22.80
				1	12	27.38	22.77
				1	24	27.63	22.79
				12	0	27.08	21.90
				12	6	27.08	21.91
				12	11	27.14	21.91
				25	0	27.63	21.88
			16QAM	1	0	27.50	21.99
				1	12	27.50	21.98
				1	24	27.74	22.00
				12	0	26.84	20.89
				12	6	26.80	20.89
				12	11	26.83	20.88
				25	0	27.41	20.80

UAT OUTPUT POWER FOR LTE BAND 26 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	26740	819.0	QPSK	1	0	26.98	22.84
				1	24	27.12	22.74
				1	49	27.14	23.00
				25	0	27.63	21.75
				25	12	27.68	21.71
				25	24	27.70	21.61
				50	0	27.59	21.74
			16QAM	1	0	26.46	21.64
				1	24	26.43	21.97
				1	49	26.44	21.86
				25	0	26.64	20.74
				25	12	26.64	20.70
				25	24	26.56	20.46
				50	0	26.81	20.72

7.8. LTE BAND 41

LAT OUTPUT POWER FOR LTE BAND 41 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	39675	2498.5	QPSK	1	0	27.99	22.30
				1	12	28.02	22.34
				1	24	28.12	22.40
				12	0	27.61	21.31
				12	6	27.74	21.37
				12	11	27.77	21.31
				25	0	27.70	21.33
			16QAM	1	0	26.60	21.36
				1	12	26.75	21.38
				1	24	26.90	21.33
				12	0	27.01	20.35
				12	6	27.08	20.29
				12	11	27.12	20.35
				25	0	27.62	20.46
5.0	40620	2593.0	QPSK	1	0	27.42	22.30
				1	12	27.23	22.22
				1	24	27.32	22.32
				12	0	27.17	21.31
				12	6	27.08	21.35
				12	11	27.10	21.31
				25	0	27.59	21.41
			16QAM	1	0	26.76	21.31
				1	12	26.69	21.33
				1	24	26.75	21.35
				12	0	26.92	20.33
				12	6	26.97	20.30
				12	11	26.89	20.26
				25	0	27.30	20.42
5.0	41565	2687.5	QPSK	1	0	26.42	21.92
				1	12	26.20	22.00
				1	24	26.05	22.10
				12	0	26.57	20.90
				12	6	26.42	21.18
				12	11	26.38	21.21
				25	0	26.98	21.03
			16QAM	1	0	25.98	21.11
				1	12	25.81	21.11
				1	24	25.74	21.14
				12	0	26.49	20.12
				12	6	26.31	20.11
				12	11	26.30	20.11
				25	0	26.93	20.23

LAT OUTPUT POWER FOR LTE BAND 41 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	39700	2501.0	QPSK	1	0	28.15	22.48
				1	24	28.27	22.50
				1	49	28.44	22.48
				25	0	27.85	21.37
				25	12	27.91	21.31
				25	24	27.97	21.39
				50	0	27.68	21.37
			16QAM	1	0	26.97	21.14
				1	24	27.14	21.12
				1	49	27.95	21.11
				25	0	27.36	20.30
				25	12	27.47	20.31
				25	24	27.80	20.40
				50	0	27.97	20.48
10.0	40620	2593.0	QPSK	1	0	27.50	22.41
				1	24	27.35	22.44
				1	49	27.38	22.43
				25	0	27.46	21.32
				25	12	27.40	21.35
				25	24	27.38	21.38
				50	0	27.47	21.47
			16QAM	1	0	27.81	21.20
				1	24	27.15	21.24
				1	49	27.71	21.23
				25	0	27.33	20.38
				25	12	27.31	20.40
				25	24	27.60	20.47
				50	0	27.85	20.42
10.0	41540	2685.0	QPSK	1	0	27.70	21.97
				1	24	27.44	22.18
				1	49	27.01	22.15
				25	0	27.33	20.97
				25	12	27.18	21.26
				25	24	27.06	21.26
				50	0	27.07	21.07
			16QAM	1	0	27.36	21.11
				1	24	27.08	21.11
				1	49	26.78	21.11
				25	0	27.10	20.30
				25	12	26.81	20.27
				25	24	26.77	20.25
				50	0	27.64	20.21

LAT OUTPUT POWER FOR LTE BAND 41 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	39725	2503.5	QPSK	1	0	28.14	22.44
				1	37	28.35	22.49
				1	74	28.52	22.48
				36	0	28.30	21.31
				36	16	28.39	21.37
				36	35	28.43	21.39
				75	0	27.89	21.29
			16-QAM	1	0	26.92	21.14
				1	37	27.10	21.10
				1	74	27.35	21.11
				36	0	27.39	20.34
				36	16	27.38	20.31
				36	35	27.72	20.36
				75	0	28.10	20.46
15.0	40620	2593.0	QPSK	1	0	27.45	22.35
				1	37	27.33	22.43
				1	74	27.37	22.49
				36	0	27.79	21.40
				36	16	27.83	21.30
				36	35	27.75	21.44
				75	0	27.69	21.44
			16-QAM	1	0	27.20	21.21
				1	37	27.08	21.22
				1	74	27.14	21.22
				36	0	27.35	20.32
				36	16	27.36	20.44
				36	35	27.12	20.41
				75	0	27.72	20.48
15.0	41515	2682.5	QPSK	1	0	27.87	21.98
				1	37	27.57	22.25
				1	74	27.02	22.18
				36	0	27.77	20.95
				36	16	27.67	21.22
				36	35	27.45	21.23
				75	0	27.31	21.01
			16-QAM	1	0	27.53	21.11
				1	37	27.23	21.11
				1	74	26.77	21.11
				36	0	27.07	20.15
				36	16	26.89	20.14
				36	35	26.79	20.27
				75	0	27.77	20.27

LAT OUTPUT POWER FOR LTE BAND 41 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	39750	2506.0	QPSK	1	0	27.41	22.25
				1	49	27.56	22.41
				1	99	27.63	22.42
				50	0	28.01	21.33
				50	24	28.18	21.40
				50	49	28.20	21.31
				100	0	27.92	21.38
			16-QAM	1	0	27.03	21.24
				1	49	27.13	21.12
				1	99	27.27	21.13
				50	0	27.95	20.12
				50	24	28.04	20.20
				50	49	27.97	20.12
				100	0	28.09	20.43
20.0	40620	2593.0	QPSK	1	0	27.19	22.35
				1	49	26.93	22.31
				1	99	26.98	22.41
				50	0	27.53	21.33
				50	24	27.54	21.40
				50	49	27.59	21.34
				100	0	27.80	21.44
			16-QAM	1	0	26.74	21.48
				1	49	26.53	21.47
				1	99	26.63	21.46
				50	0	27.47	20.31
				50	24	27.37	20.44
				50	49	27.37	20.42
				100	0	27.89	20.41
20.0	41490	2680.0	QPSK	1	0	26.74	21.95
				1	49	26.46	22.01
				1	99	25.95	22.04
				50	0	27.32	20.92
				50	24	27.18	21.00
				50	49	26.98	21.10
				100	0	27.26	21.08
			16-QAM	1	0	26.69	21.25
				1	49	26.58	21.20
				1	99	26.28	21.29
				50	0	27.48	20.25
				50	24	27.36	20.28
				50	49	27.24	20.28
				100	0	27.28	20.22

UAT OUTPUT POWER FOR LTE BAND 41 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
5.0	39675	2498.5	QPSK	1	0	27.66	22.22
				1	12	27.54	22.24
				1	24	27.59	22.10
				12	0	27.31	21.29
				12	6	27.23	21.24
				12	11	27.26	21.20
			16QAM	25	0	27.26	21.25
				1	0	26.26	21.17
				1	12	26.27	21.11
				1	24	26.38	21.17
				12	0	26.59	20.18
				12	6	26.52	20.12
				12	11	26.53	20.12
				25	0	27.05	20.29
5.0	40620	2593.0	QPSK	1	0	27.11	22.11
				1	12	26.98	22.22
				1	24	27.09	22.31
				12	0	26.99	21.22
				12	6	27.00	21.21
				12	11	27.00	21.23
			16QAM	25	0	27.26	21.21
				1	0	26.54	21.24
				1	12	26.43	21.23
				1	24	26.52	21.22
				12	0	26.81	20.14
				12	6	26.76	20.24
				12	11	26.75	20.23
				25	0	27.28	20.23
5.0	41565	2687.5	QPSK	1	0	26.19	22.11
				1	12	25.91	22.13
				1	24	25.78	22.12
				12	0	26.34	21.03
				12	6	26.23	21.15
				12	11	26.15	21.04
			16QAM	25	0	26.72	21.14
				1	0	25.68	21.14
				1	12	25.50	21.12
				1	24	26.07	21.13
				12	0	26.58	20.13
				12	6	26.51	20.13
				12	11	26.50	20.11
				25	0	26.76	20.12

UAT OUTPUT POWER FOR LTE BAND 41 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
10.0	39700	2501.0	QPSK	1	0	27.78	22.31
				1	24	27.70	22.20
				1	49	27.92	22.19
				25	0	27.40	21.23
				25	12	27.44	21.22
				25	24	27.37	21.11
				50	0	27.10	21.22
			16QAM	1	0	26.67	21.17
				1	24	26.58	21.16
				1	49	26.82	21.15
				25	0	26.85	20.23
				25	12	26.76	20.21
				25	24	27.24	20.22
				50	0	27.36	20.20
10.0	40620	2593.0	QPSK	1	0	28.24	22.24
				1	24	28.01	22.22
				1	49	28.02	22.25
				25	0	27.49	21.21
				25	12	27.46	21.22
				25	24	27.48	21.22
				50	0	27.26	21.22
			16QAM	1	0	27.71	21.28
				1	24	26.94	21.23
				1	49	26.77	21.24
				25	0	27.20	20.11
				25	12	27.06	20.21
				25	24	27.11	20.21
				50	0	27.41	20.22
10.0	41540	2685.0	QPSK	1	0	27.45	22.14
				1	24	27.11	22.13
				1	49	26.82	22.14
				25	0	26.97	21.03
				25	12	26.92	21.14
				25	24	26.77	21.02
				50	0	26.70	21.15
			16QAM	1	0	27.04	21.10
				1	24	26.85	21.11
				1	49	26.48	21.15
				25	0	26.81	20.11
				25	12	26.61	20.14
				25	24	26.53	20.12
				50	0	27.28	20.12

UAT OUTPUT POWER FOR LTE BAND 41 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
15.0	39725	2503.5	QPSK	1	0	27.78	22.32
				1	37	27.80	22.22
				1	74	28.09	22.25
				36	0	27.76	21.20
				36	16	27.85	21.21
				36	35	27.97	21.24
				75	0	27.49	21.22
			16-QAM	1	0	26.62	21.15
				1	37	26.63	21.13
				1	74	27.03	21.13
				36	0	27.02	20.25
				36	16	27.10	20.21
				36	35	27.27	20.30
				75	0	28.00	20.26
15.0	40620	2593.0	QPSK	1	0	28.19	22.18
				1	37	28.04	22.20
				1	74	27.94	22.26
				36	0	27.96	21.21
				36	16	27.96	21.26
				36	35	27.88	21.22
				75	0	27.50	21.23
			16-QAM	1	0	27.72	21.28
				1	37	26.86	21.20
				1	74	26.70	21.21
				36	0	27.39	20.24
				36	16	27.22	20.21
				36	35	26.91	20.22
				75	0	27.58	20.22
15.0	41515	2682.5	QPSK	1	0	27.52	22.36
				1	37	27.31	22.14
				1	74	26.79	22.11
				36	0	27.46	21.02
				36	16	27.42	21.15
				36	35	27.23	21.01
				75	0	26.97	21.13
			16-QAM	1	0	27.18	21.12
				1	37	26.90	21.12
				1	74	26.47	21.14
				36	0	26.78	20.15
				36	16	26.68	20.13
				36	35	26.52	20.11
				75	0	27.46	20.10

UAT OUTPUT POWER FOR LTE BAND 41 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Peak Power (dBm)	Average (dBm)
				Size	Offset		
20.0	39750	2506.0	QPSK	1	0	27.15	22.25
				1	49	27.19	22.23
				1	99	27.33	22.14
				50	0	27.55	21.26
				50	24	27.77	21.21
				50	49	27.87	21.21
				100	0	27.45	21.23
			16-QAM	1	0	26.69	21.23
				1	49	26.76	21.28
				1	99	26.84	21.15
				50	0	27.45	20.25
				50	24	27.63	20.30
				50	49	27.72	20.29
				100	0	27.75	20.31
20.0	40620	2593.0	QPSK	1	0	26.86	22.15
				1	49	26.75	22.23
				1	99	26.66	22.20
				50	0	27.48	21.23
				50	24	27.38	21.22
				50	49	27.39	21.22
				100	0	27.71	21.30
			16-QAM	1	0	26.73	21.20
				1	49	26.64	21.20
				1	99	26.73	21.28
				50	0	27.42	20.32
				50	24	27.24	20.26
				50	49	27.09	20.29
				100	0	27.60	20.33
20.0	41490	2680.0	QPSK	1	0	26.36	22.15
				1	49	26.13	22.15
				1	99	25.73	22.13
				50	0	26.98	21.04
				50	24	26.93	21.13
				50	49	26.71	21.03
				100	0	27.13	21.11
			16-QAM	1	0	25.91	21.24
				1	49	26.27	21.12
				1	99	26.02	21.12
				50	0	27.14	20.12
				50	24	27.13	20.12
				50	49	26.88	20.11
				100	0	26.90	20.13

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 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 2	1.4 MHz BAND QPSK	6/0	1880	1.0703	1.223
	1.4 MHz BAND 16QAM	6/0	1880	1.0753	1.155
	3.0 MHz BAND QPSK	15/0	1880	2.6934	2.859
	3.0 MHz BAND 16QAM	15/0	1880	2.6742	2.883
	5.0 MHz BAND QPSK	25/0	1880	4.4343	4.770
	5.0 MHz BAND 16QAM	25/0	1880	4.5015	4.772
	10.0 MHz BAND QPSK	50/0	1880	8.9457	9.520
	10.0 MHz BAND 16QAM	50/0	1880	8.8578	9.365
	15.0 MHz BAND QPSK	75/0	1880	13.3227	14.084
	15.0 MHz BAND 16QAM	75/0	1880	13.3368	13.980
	20.0 MHz BAND QPSK	100/0	1880	17.8514	18.651
	20.0 MHz BAND 16QAM	100/0	1880	17.7892	18.763

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	1.0848	1.194
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0661	1.268
	3.0 MHz BAND QPSK	15/0	1732.5	2.6893	2.829
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6932	2.882
	5.0 MHz BAND QPSK	25/0	1732.5	4.4629	4.809
	5.0 MHz BAND 16QAM	25/0	1732.5	4.3840	4.677
	10.0 MHz BAND QPSK	50/0	1732.5	8.9453	9.378
	10.0 MHz BAND 16QAM	50/0	1732.5	8.8065	9.342
	15.0 MHz BAND QPSK	75/0	1732.5	13.3042	14.075
	15.0 MHz BAND 16QAM	75/0	1732.5	13.3779	14.023
	20.0 MHz BAND QPSK	100/0	1732.5	17.7908	18.630
	20.0 MHz BAND 16QAM	100/0	1732.5	17.7984	18.708

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	1.0563	1.214
	1.4 MHz BAND 16QAM	6/0	836.5	1.0858	1.234
	3.0 MHz BAND QPSK	15/0	836.5	2.7139	2.860
	3.0 MHz BAND 16QAM	15/0	836.5	2.7128	2.877
	5.0 MHz BAND QPSK	25/0	836.5	4.4043	4.656
	5.0 MHz BAND 16QAM	25/0	836.5	4.4026	4.692
	10.0 MHz BAND QPSK	50/0	836.5	8.9568	9.408
	10.0 MHz BAND 16QAM	50/0	836.5	8.9301	9.317

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	4.4996	4.780
	5.0 MHz BAND 16QAM	25/0	782	4.4986	4.718
	10.0 MHz BAND QPSK	50/0	782	8.8302	9.545
	10.0 MHz BAND 16QAM	50/0	782	8.9721	9.344

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	4.4735	4.661
	5.0 MHz BAND 16QAM	25/0	710	4.4884	4.702
	10.0 MHz BAND QPSK	50/0	710	8.9173	9.361
	10.0 MHz BAND 16QAM	50/0	710	8.8951	9.311

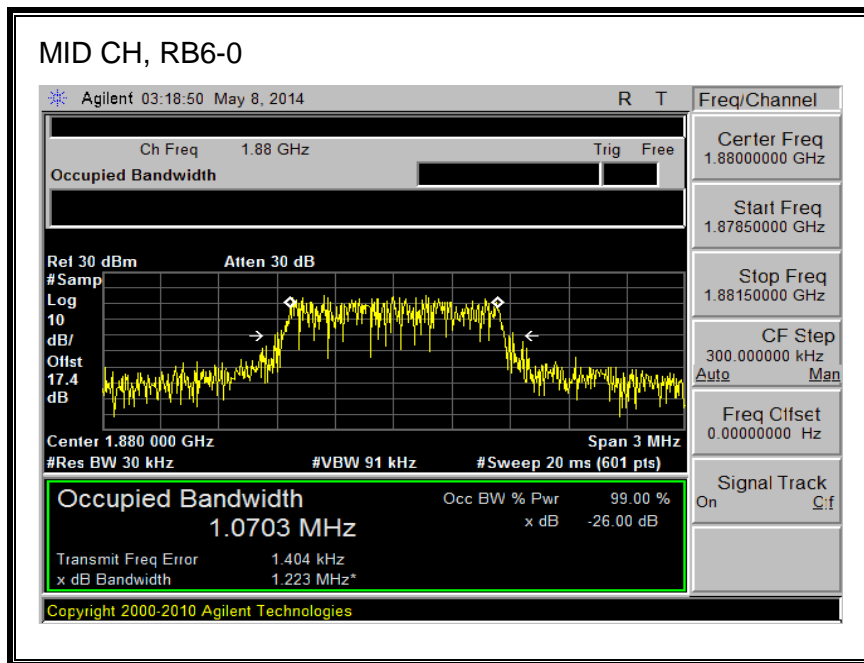
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 25	1.4 MHz BAND QPSK	6/0	1882.5	1.0773	1.215
	1.4 MHz BAND 16QAM	6/0	1882.5	1.0878	1.187
	3.0 MHz BAND QPSK	15/0	1882.5	2.6962	2.884
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6676	2.864
	5.0 MHz BAND QPSK	25/0	1882.5	4.4720	4.837
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4739	4.644
	10.0 MHz BAND QPSK	50/0	1882.5	8.8395	9.550
	10.0 MHz BAND 16QAM	50/0	1882.5	8.9323	9.532
	15.0 MHz BAND QPSK	75/0	1882.5	13.3453	13.978
	15.0 MHz BAND 16QAM	75/0	1882.5	13.4176	14.025
	20.0 MHz BAND QPSK	100/0	1882.5	17.7676	18.706
	20.0 MHz BAND 16QAM	100/0	1882.5	17.8613	18.701

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
BAND 26	3.0 MHz BAND QPSK	15/0	821.3	2.6668	2.796
	3.0 MHz BAND 16QAM	15/0	821.3	2.7024	2.799
	5.0 MHz BAND QPSK	25/0	821.3	4.4804	4.644
	5.0 MHz BAND 16QAM	25/0	821.3	4.4887	4.686
	10.0 MHz BAND QPSK	50/0	819	8.9817	9.379
	10.0 MHz BAND 16QAM	50/0	819	8.9462	9.382

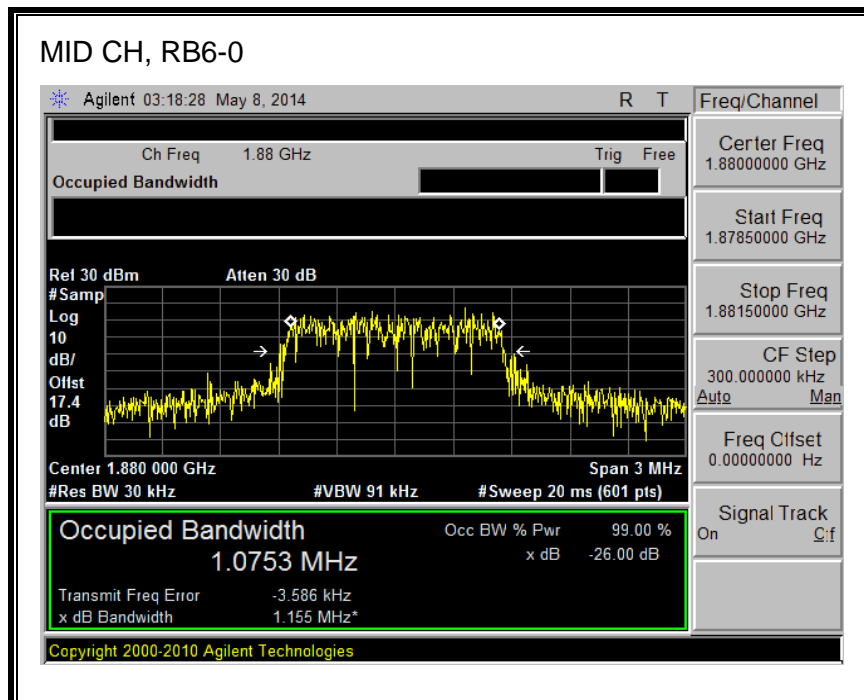
+

8.1.1. LTE BAND 2

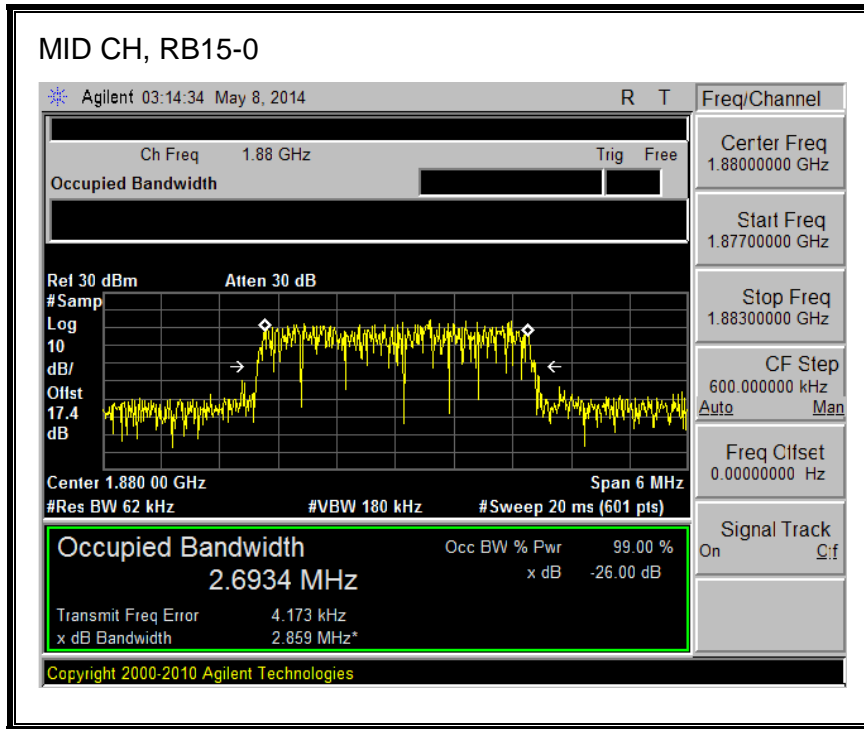
QPSK, (1.4 MHz BAND WIDTH)



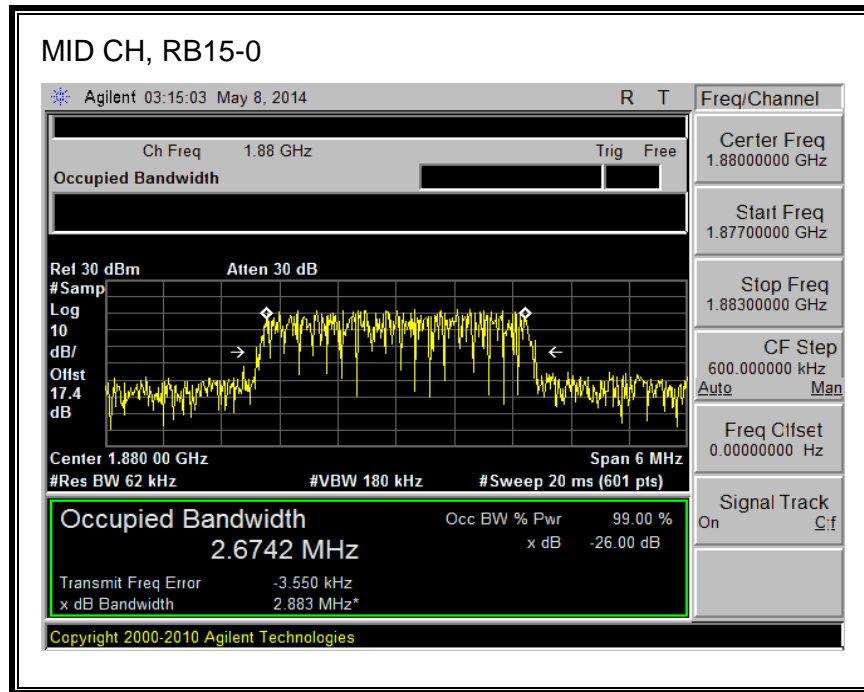
16QAM, (1.4 MHz BAND WIDTH)



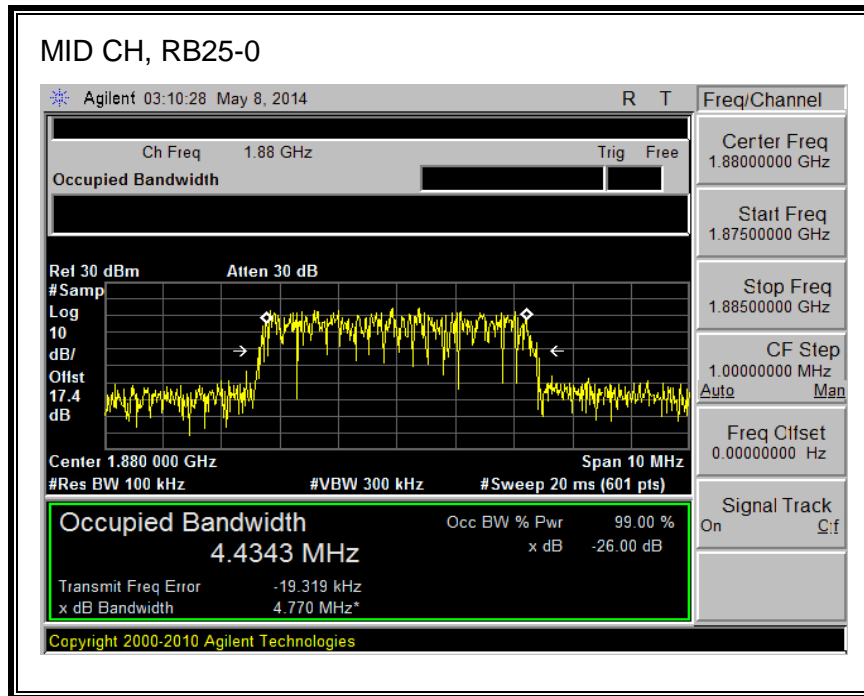
QPSK, (3.0 MHz BAND WIDTH)



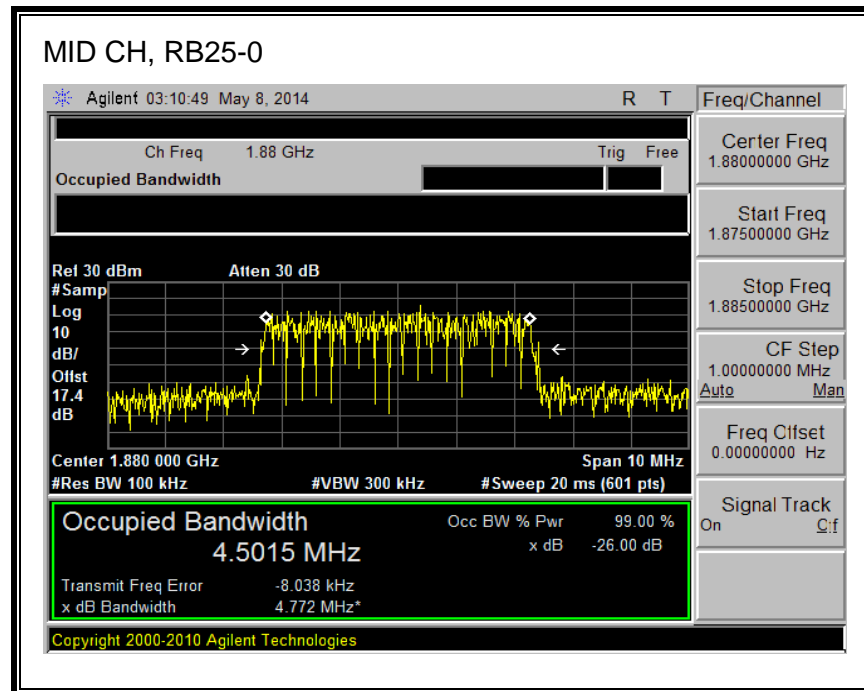
16QAM, (3.0 MHz BAND WIDTH)



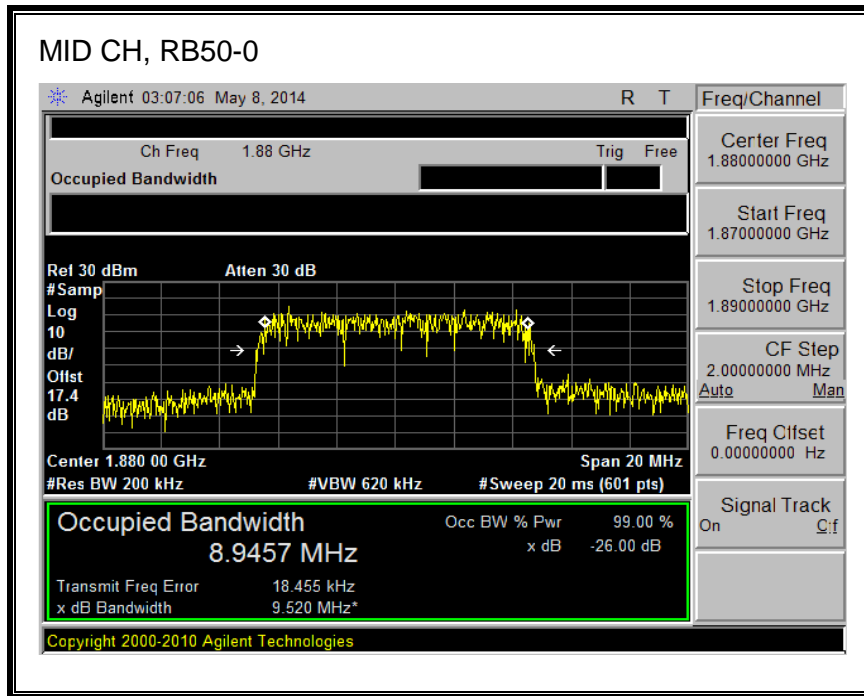
QPSK, (5.0 MHz BAND WIDTH)



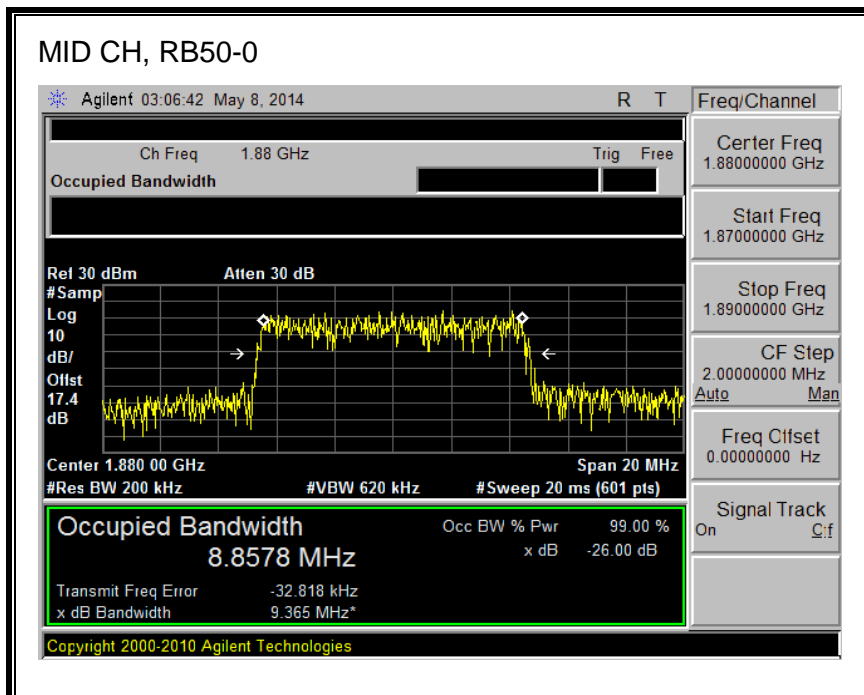
16QAM, (5.0 MHz BAND WIDTH)



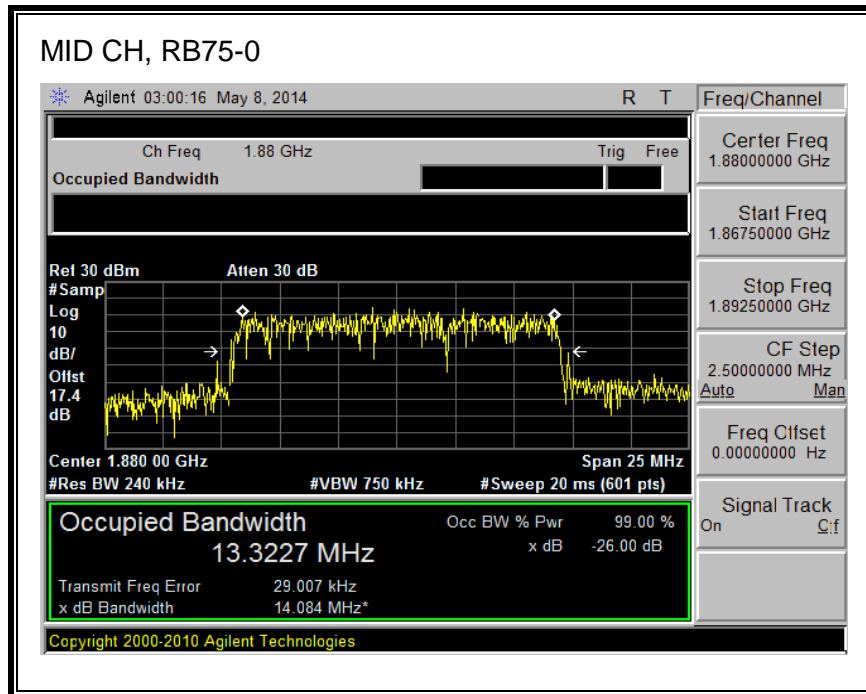
QPSK, (10.0 MHz BAND WIDTH)



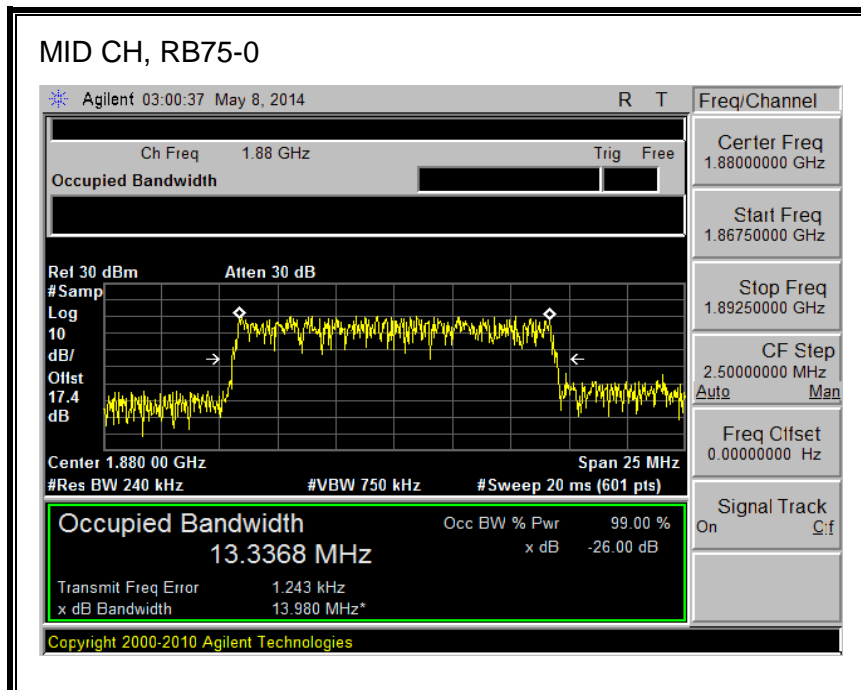
16QAM, (10.0 MHz BAND WIDTH)



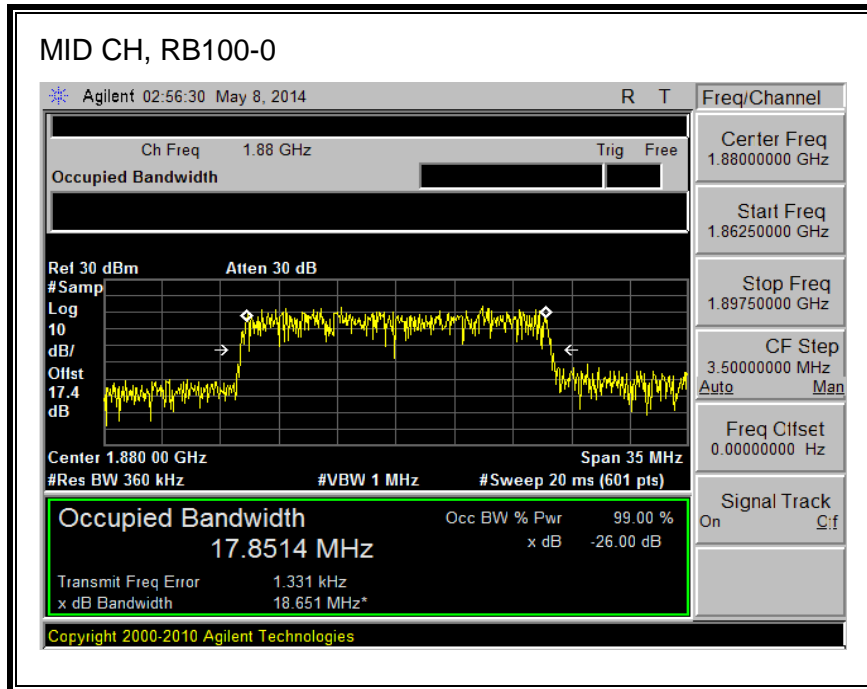
QPSK, (15.0 MHz BAND WIDTH)



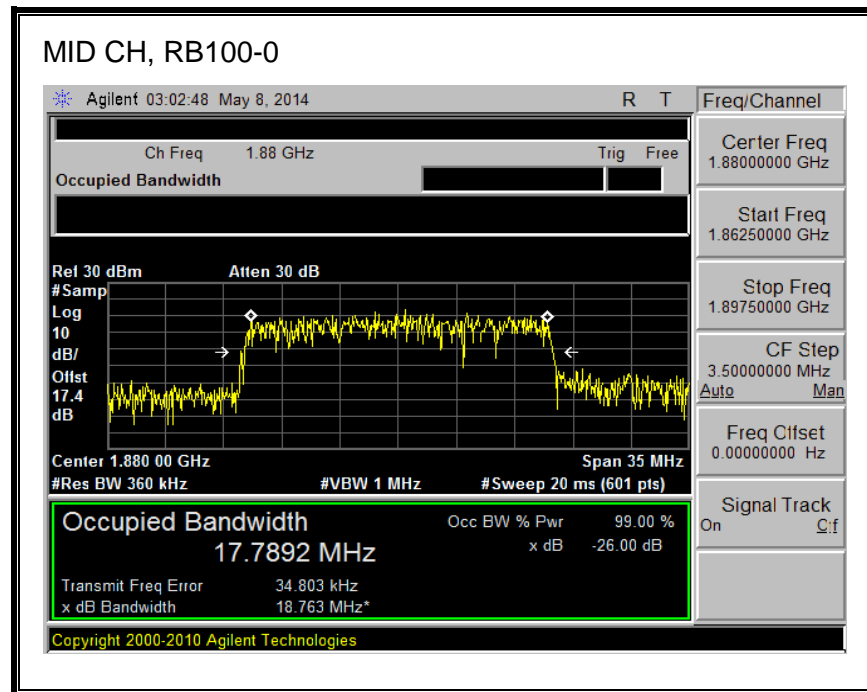
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

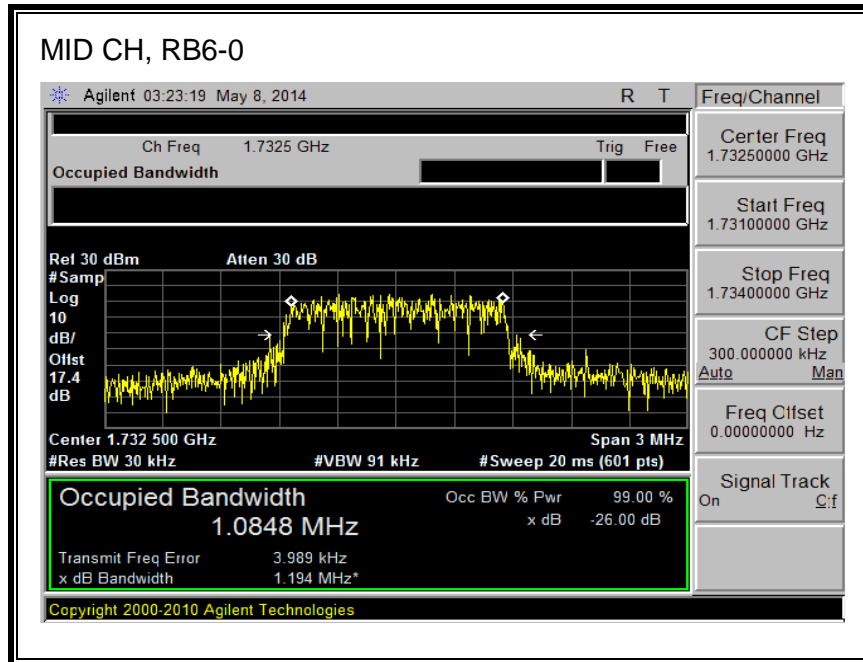


16QAM, (20.0 MHz BAND WIDTH)

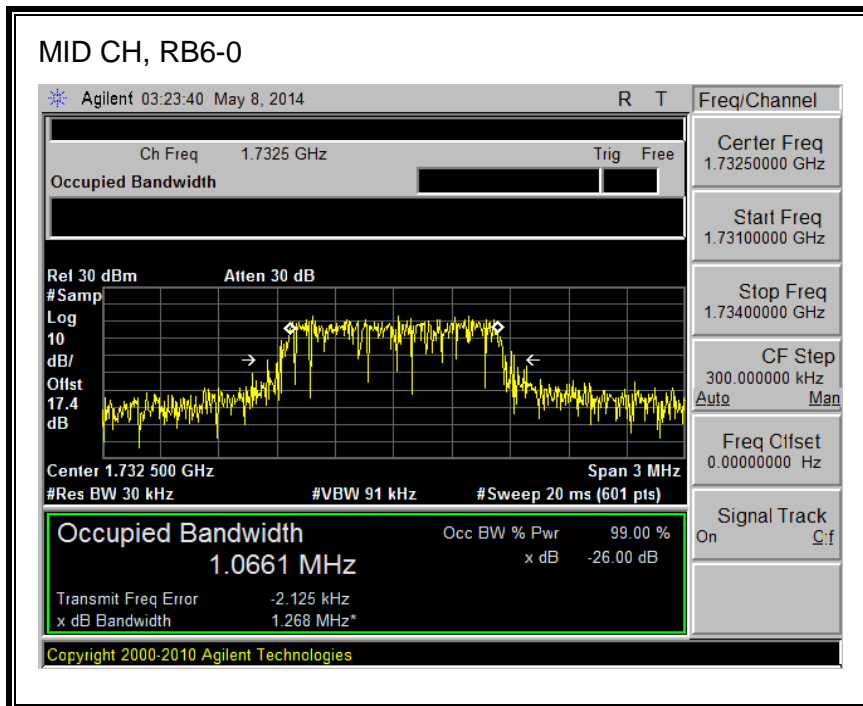


8.1.2. LTE BAND 4

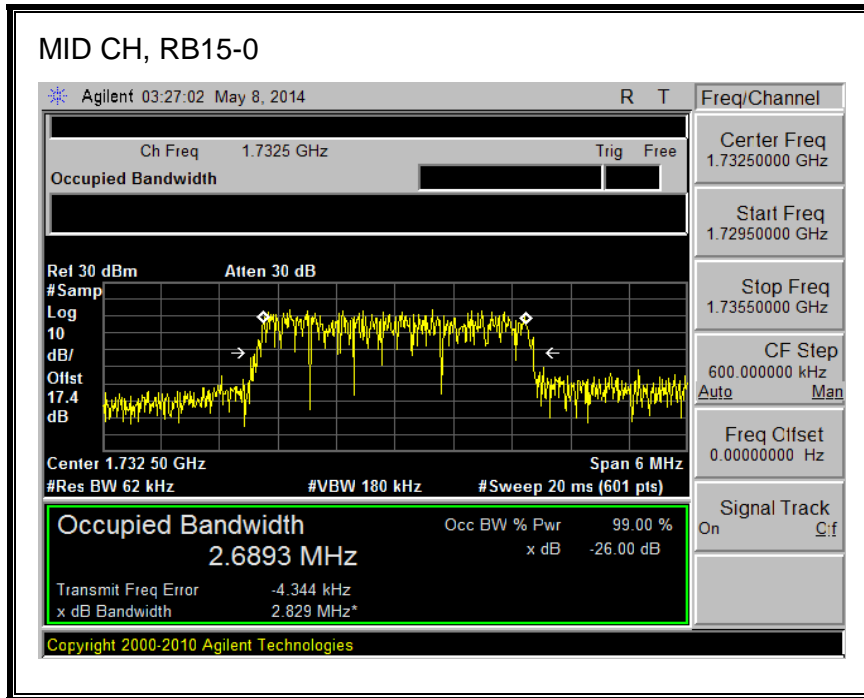
QPSK, (1.4 MHz BAND WIDTH)



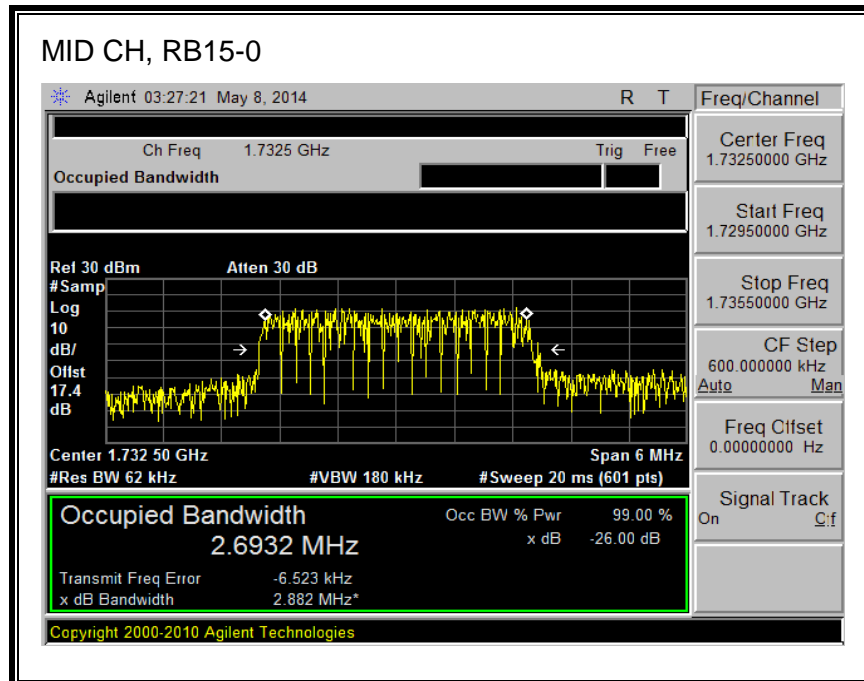
16QAM, (1.4 MHz BAND WIDTH)



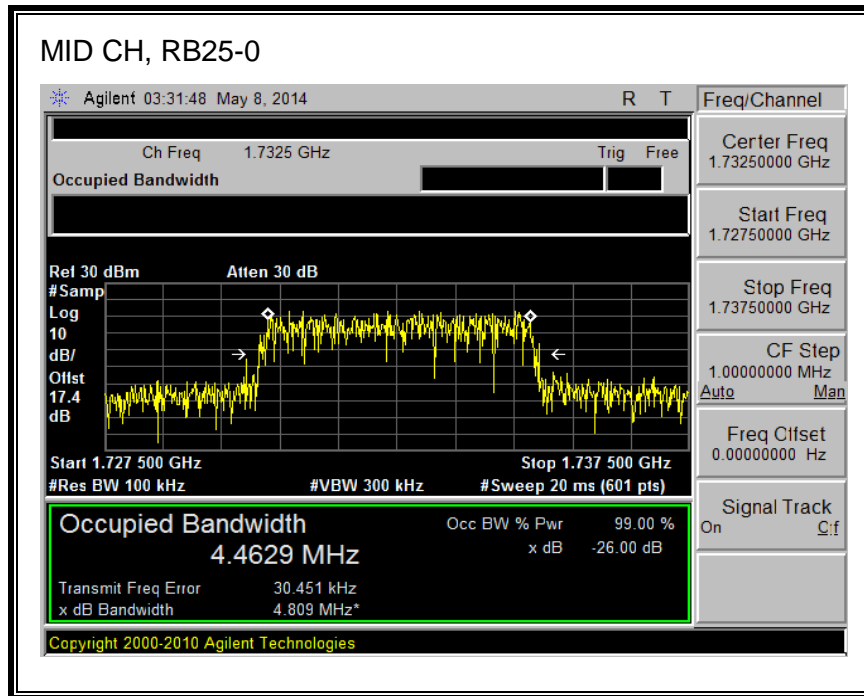
QPSK, (3.0 MHz BAND WIDTH)



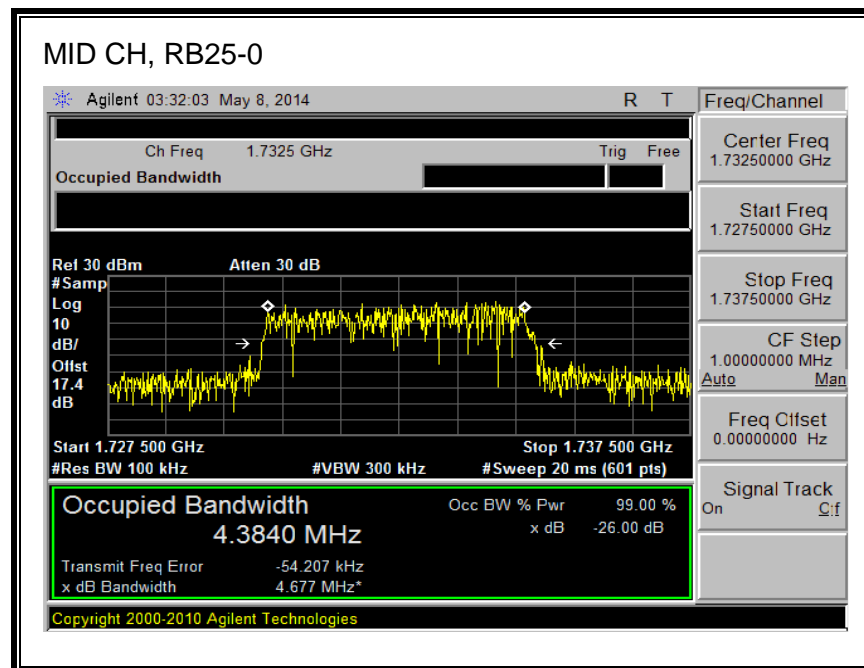
16QAM, (3.0 MHz BAND WIDTH)



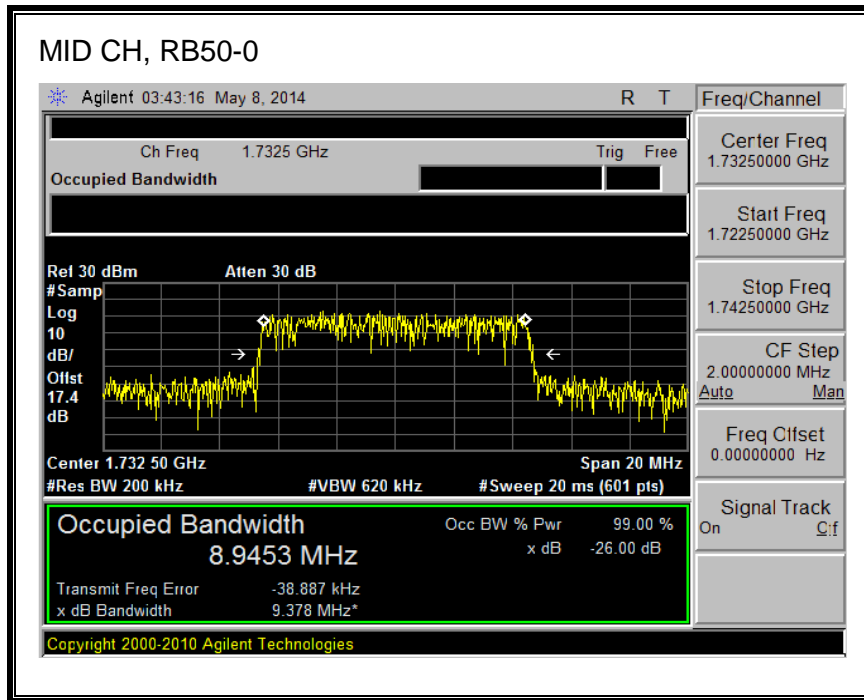
QPSK, (5.0 MHz BAND WIDTH)



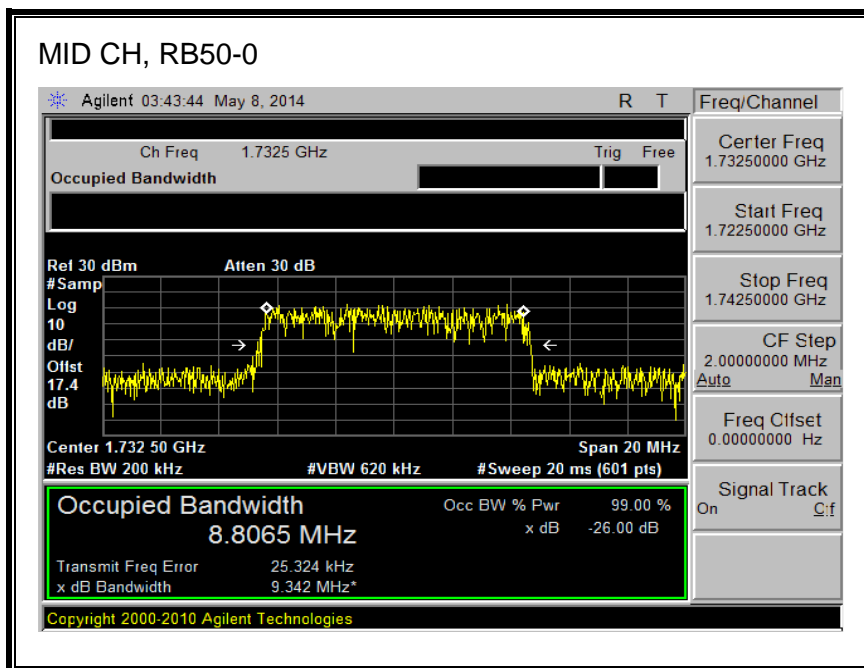
16QAM, (5.0 MHz BAND WIDTH)



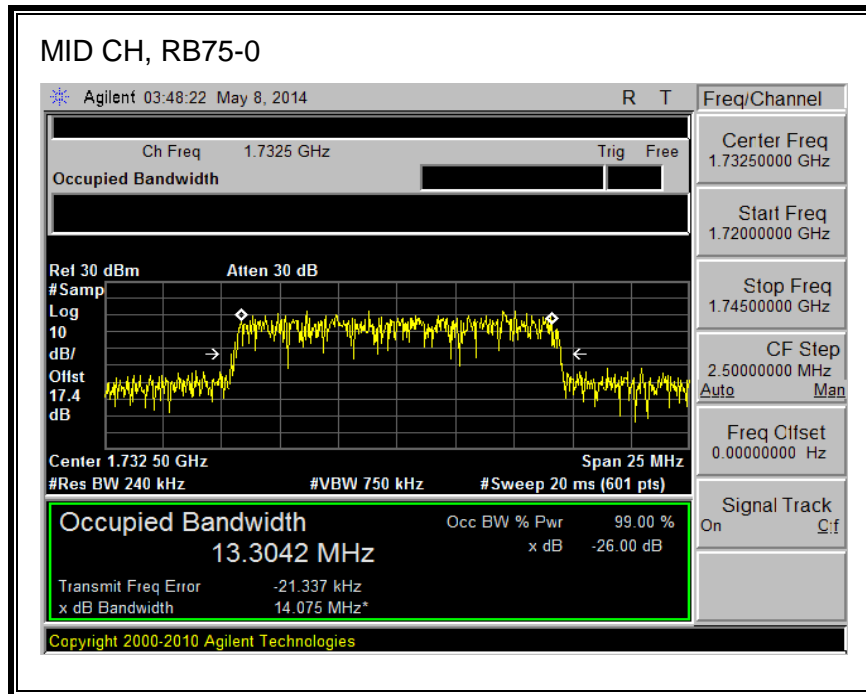
QPSK, (10.0 MHz BAND WIDTH)



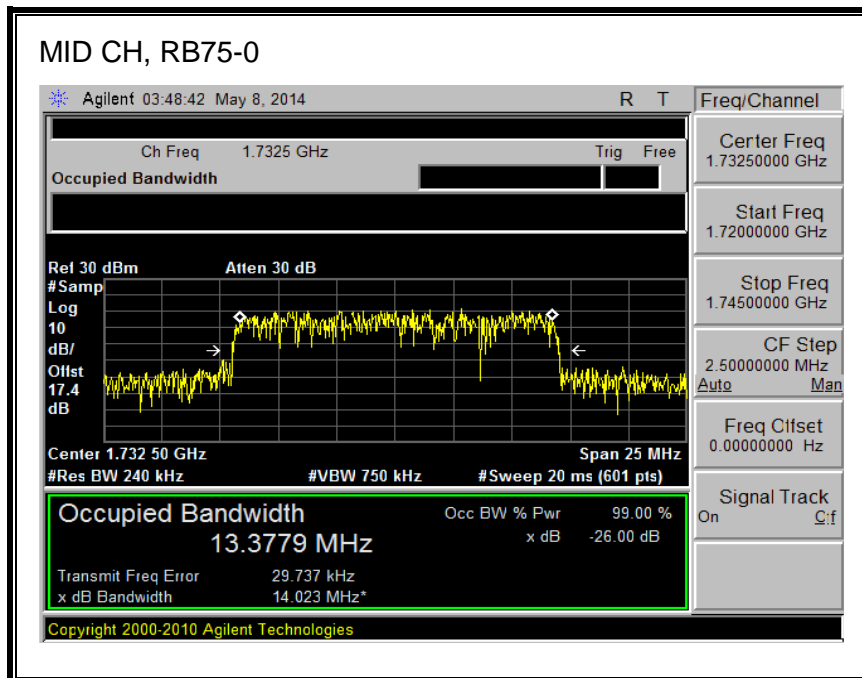
16QAM, (10.0 MHz BAND WIDTH)



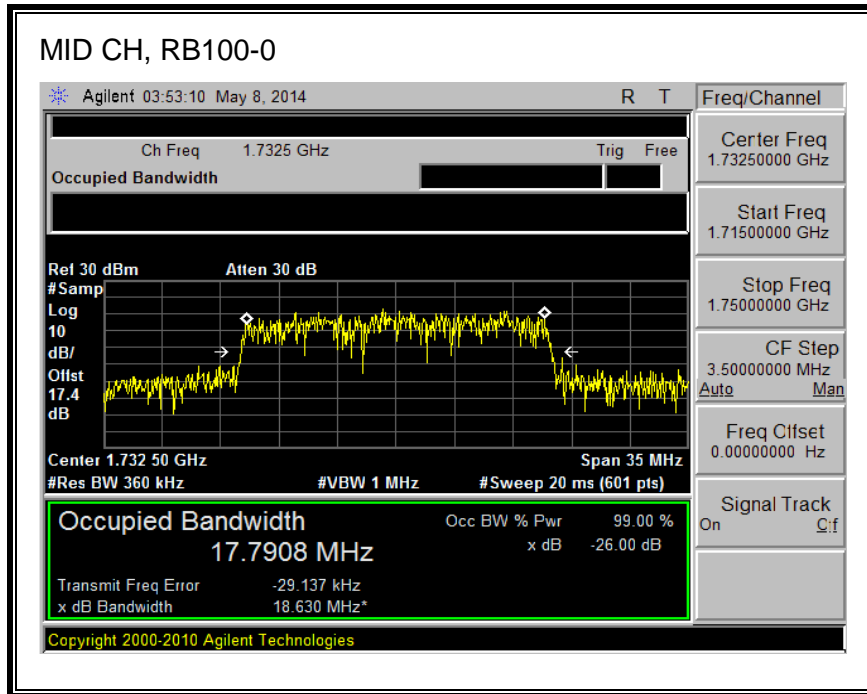
QPSK, (15.0 MHz BAND WIDTH)



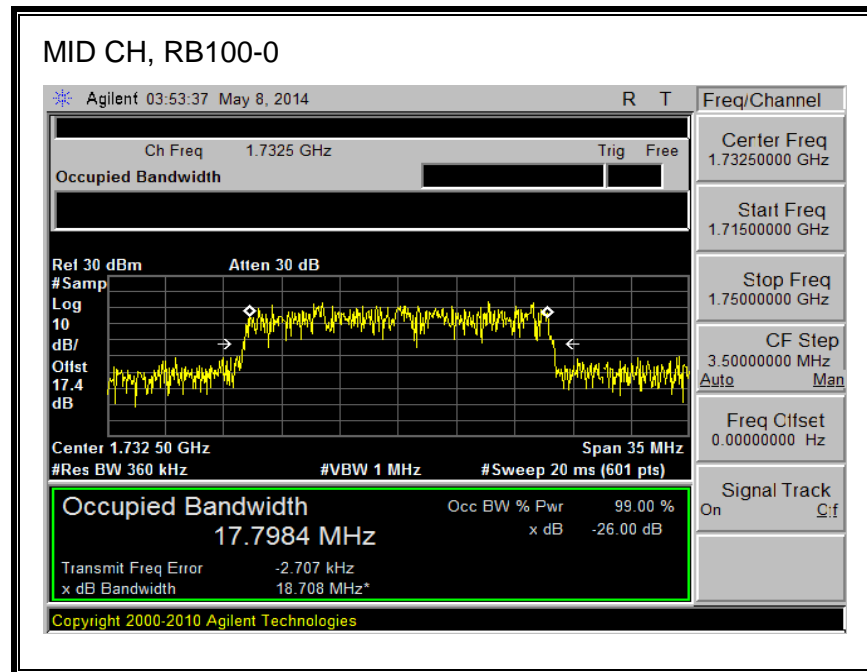
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

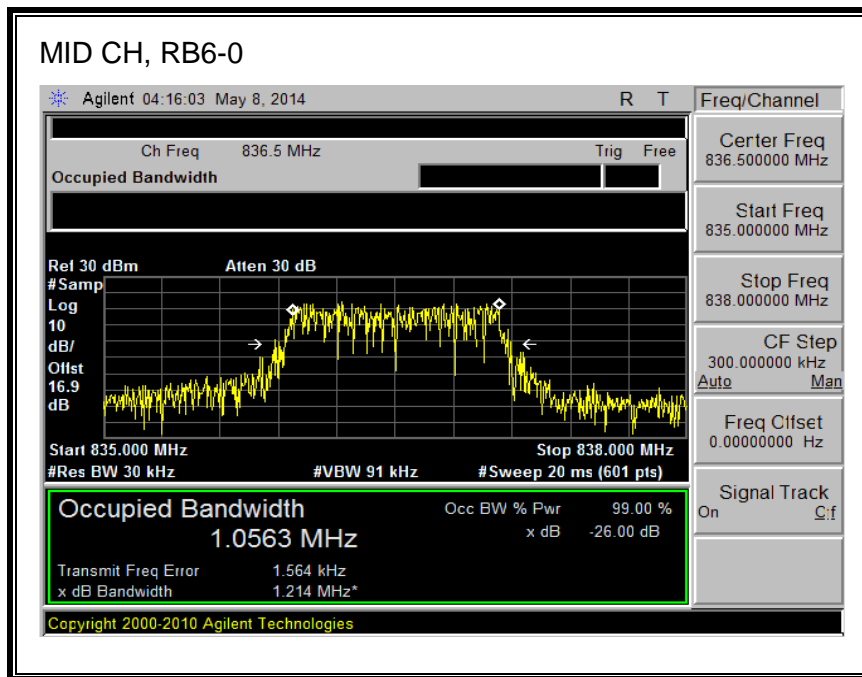


16QAM, (20.0 MHz BAND WIDTH)

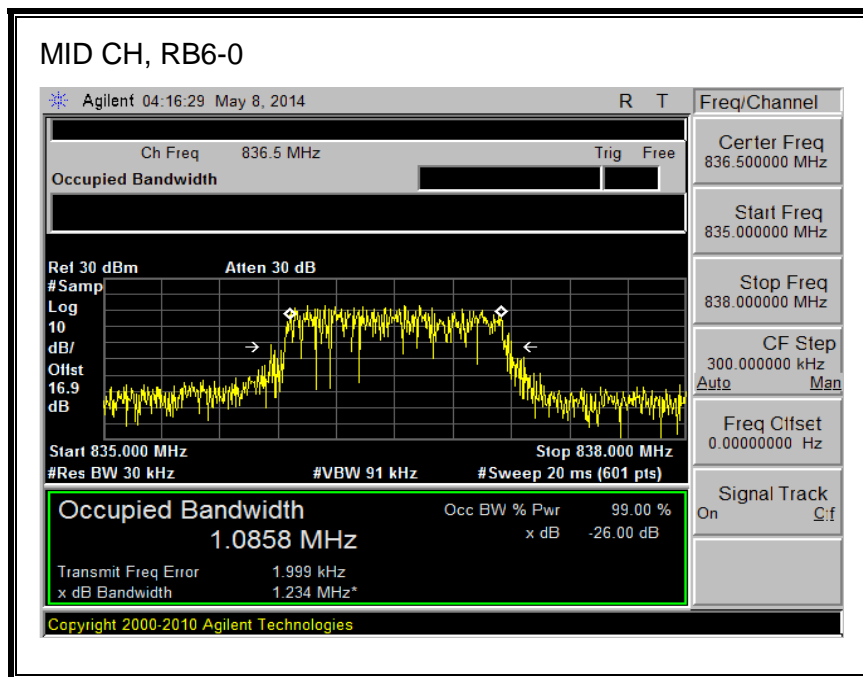


8.1.3. LTE BAND 5

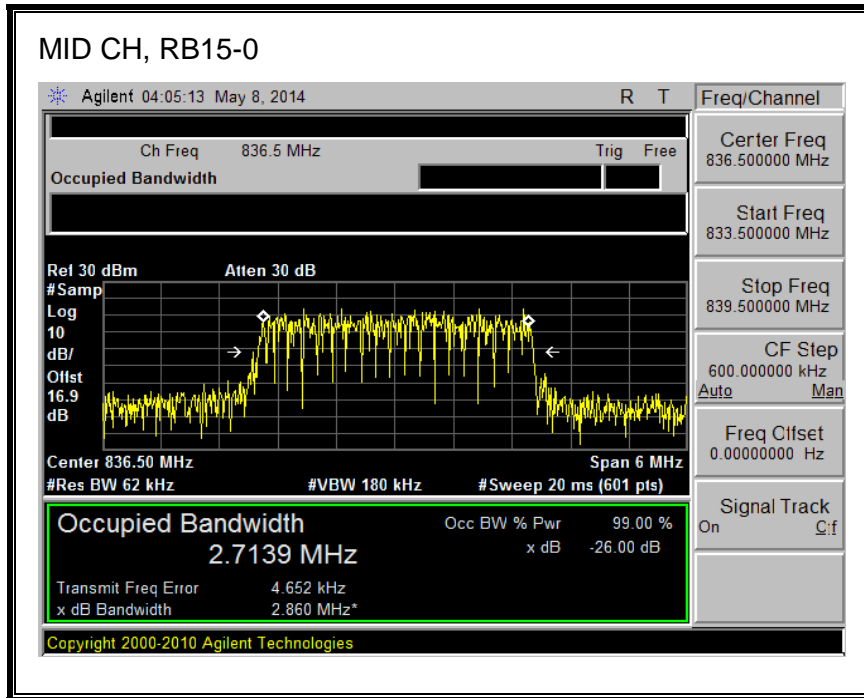
QPSK, (1.4 MHz BAND WIDTH)



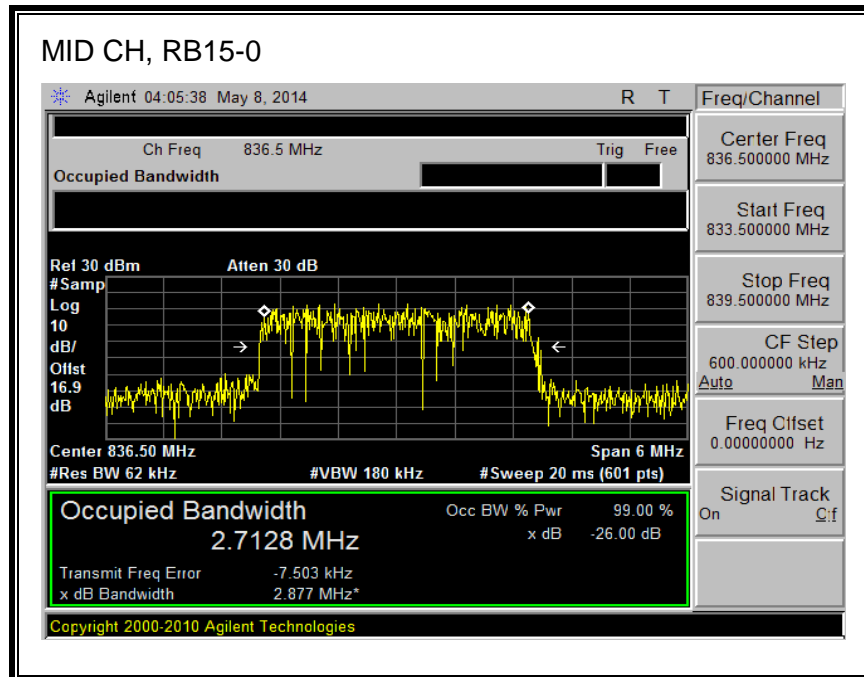
16QAM, (1.4 MHz BAND WIDTH)



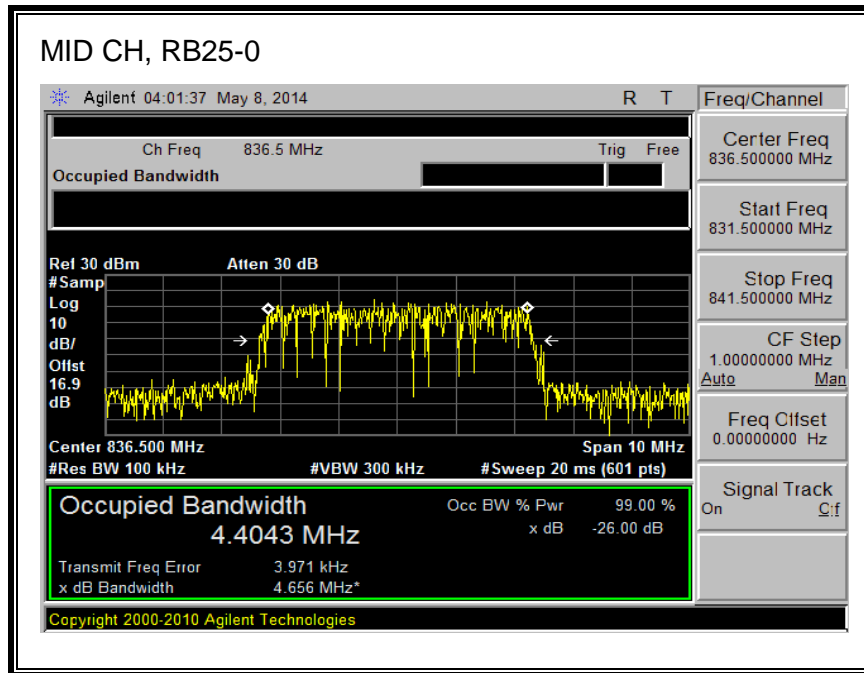
QPSK, (3.0 MHz BAND WIDTH)



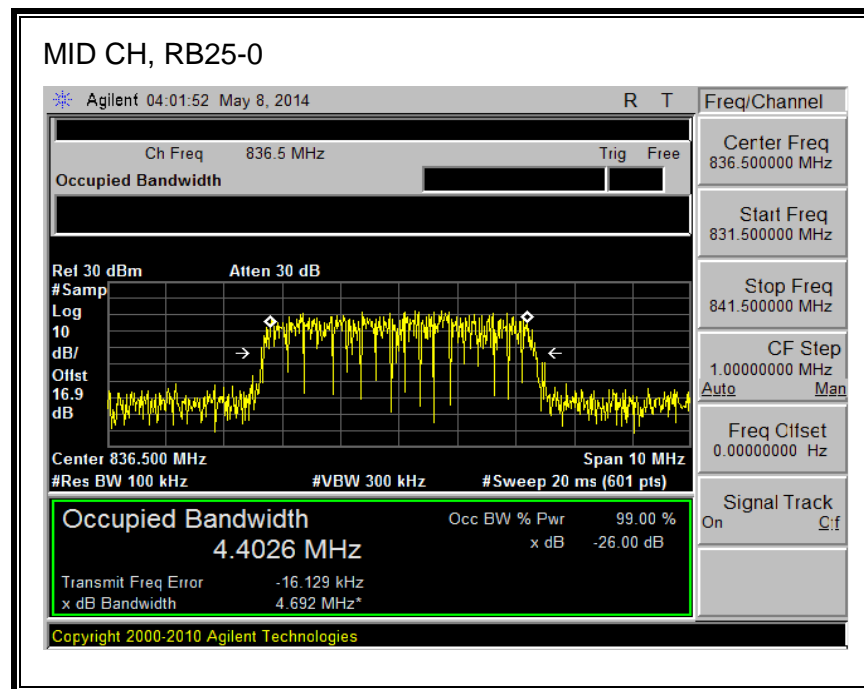
16QAM, (3.0 MHz BAND WIDTH)



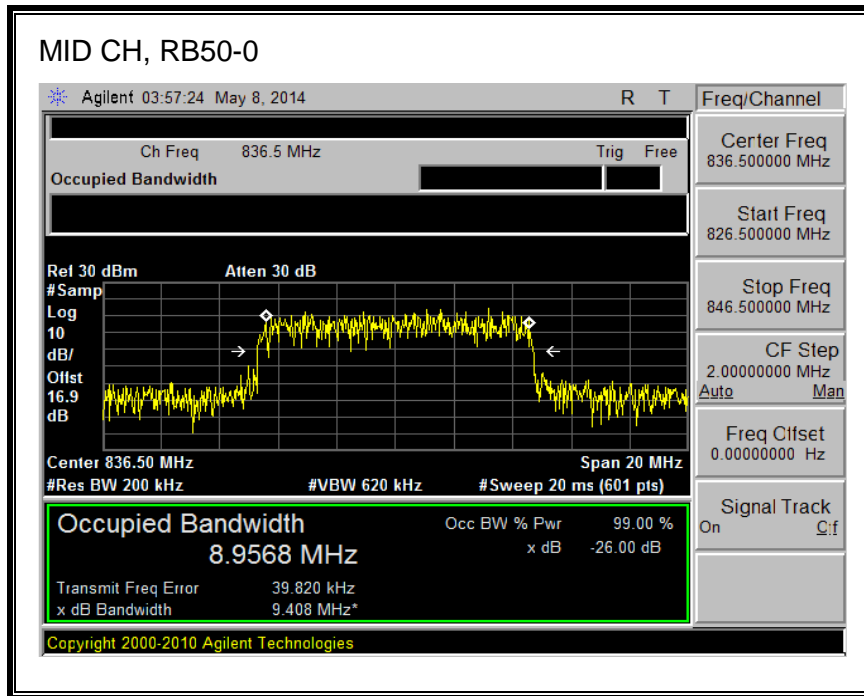
QPSK, (5.0 MHz BAND WIDTH)



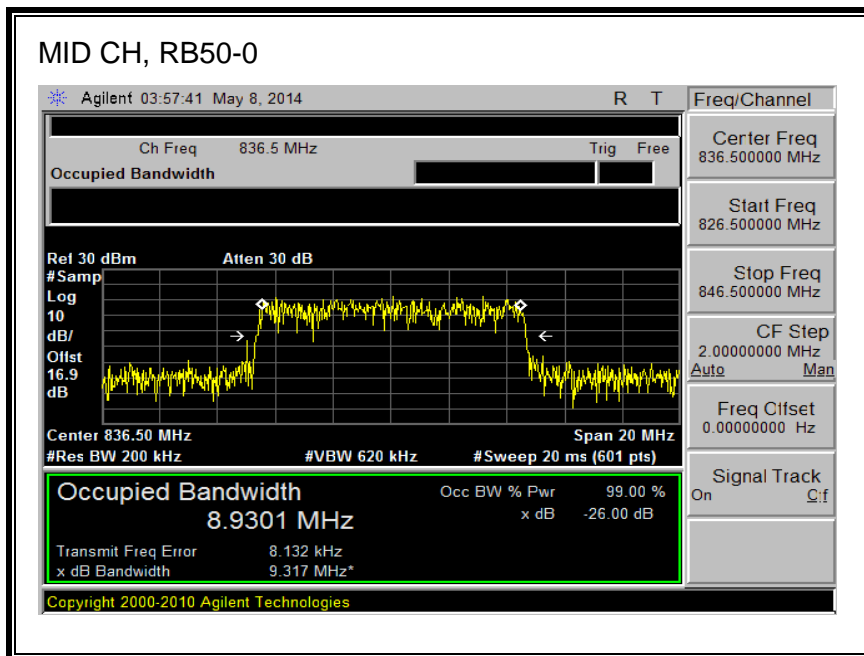
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

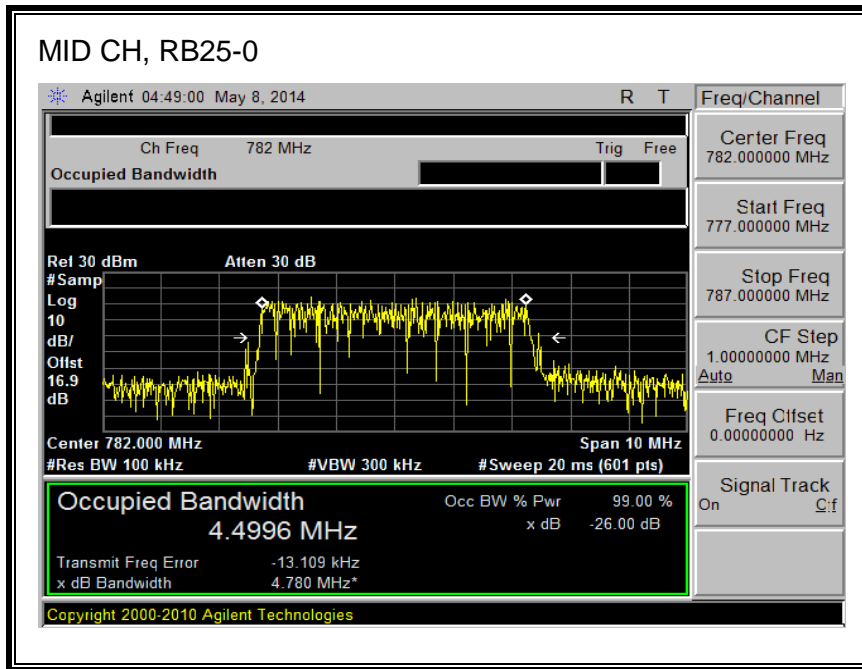


16QAM, (10.0 MHz BAND WIDTH)

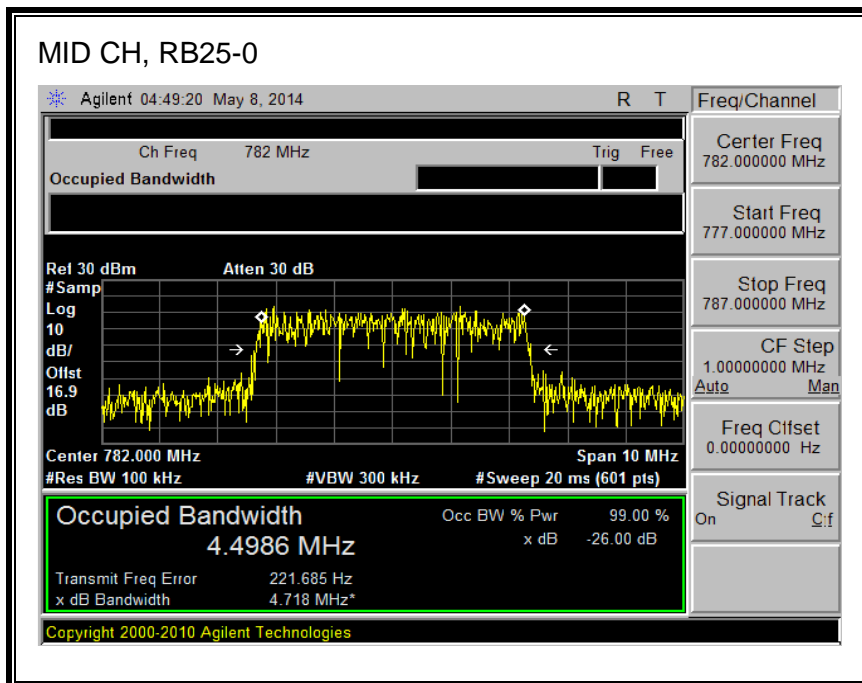


8.1.4. LTE BAND 13

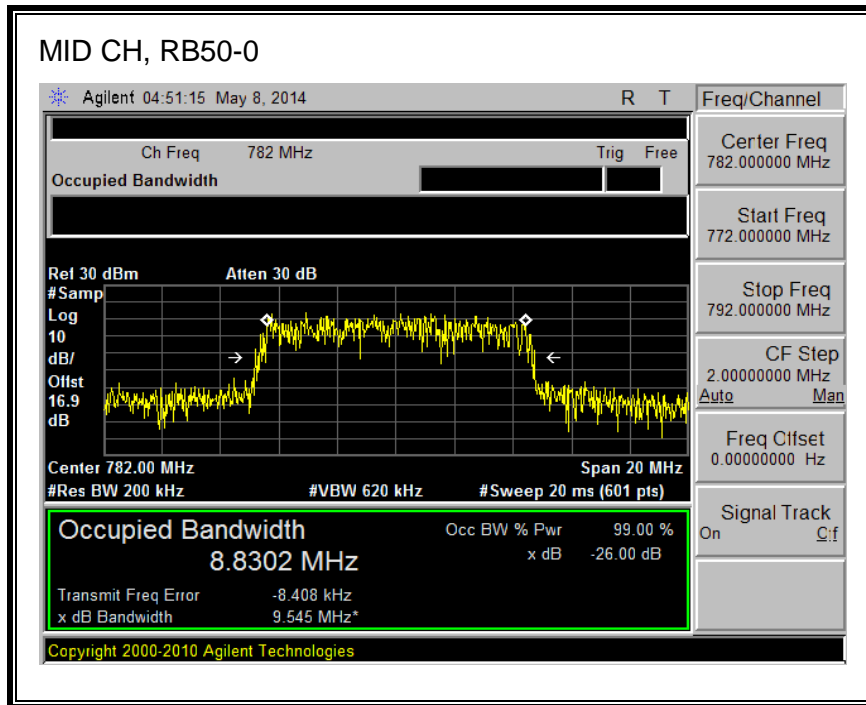
QPSK, (5.0 MHz BAND WIDTH)



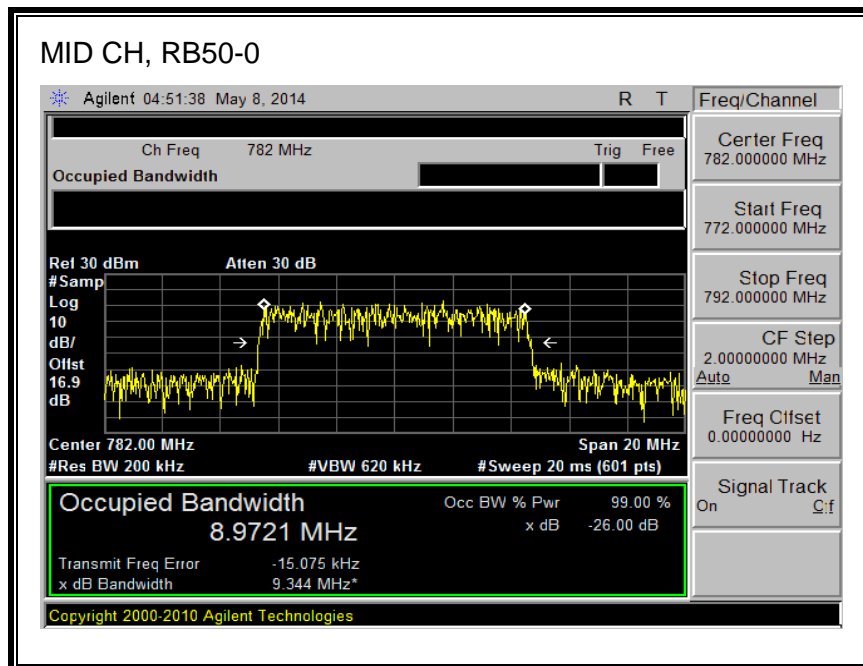
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

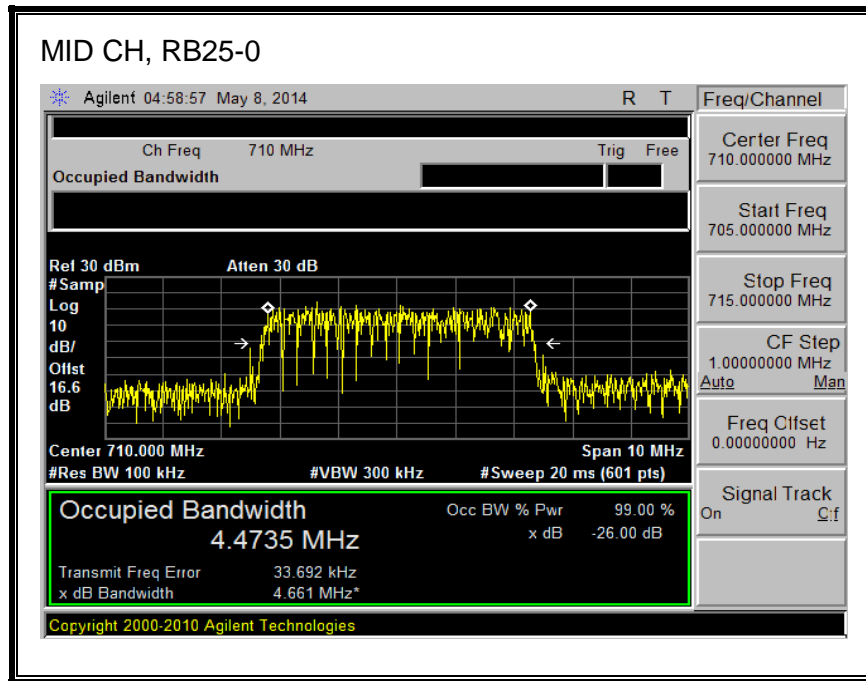


16QAM, (10.0 MHz BAND WIDTH)

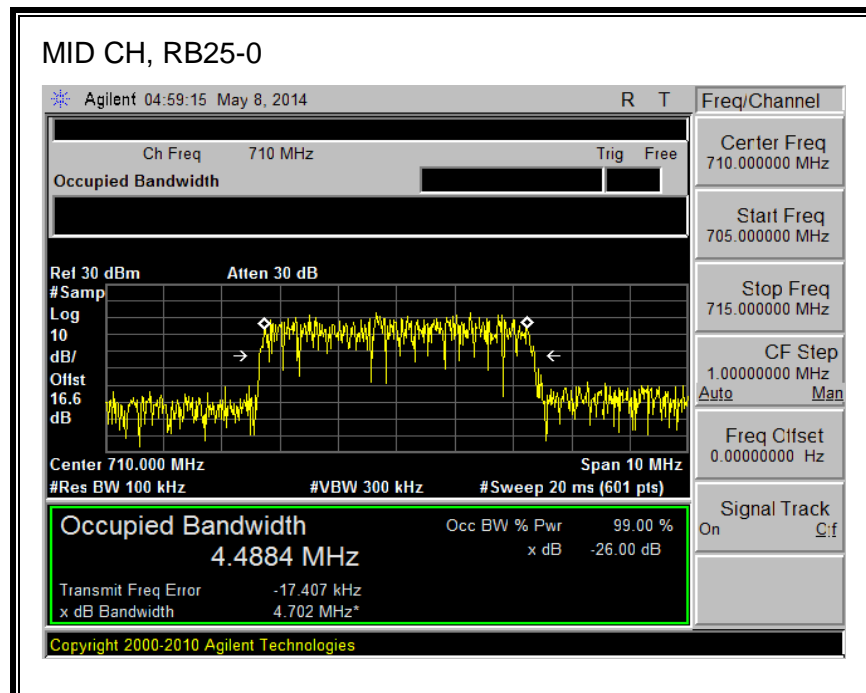


8.1.5. LTE BAND 17

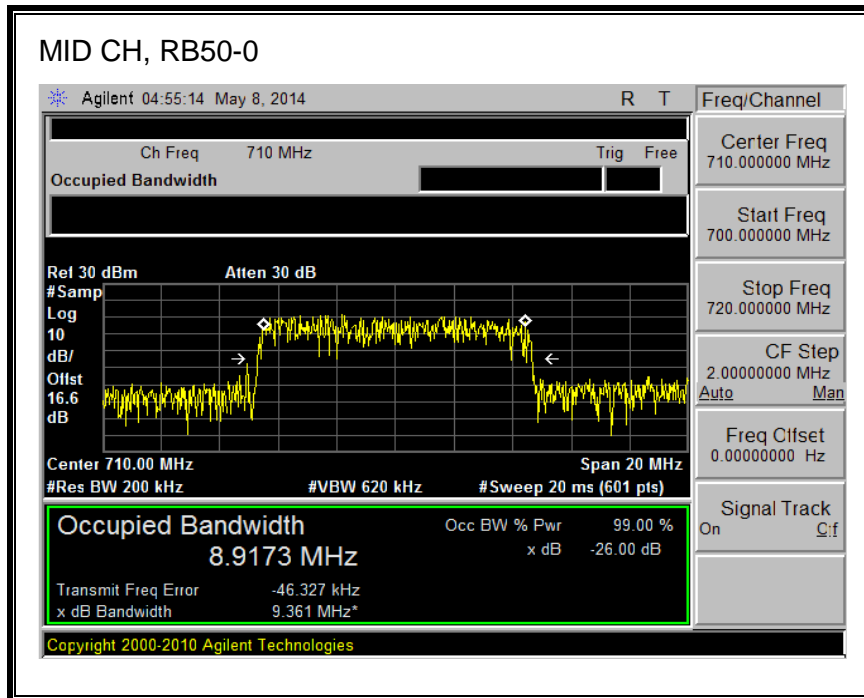
QPSK, (5.0 MHz BAND WIDTH)



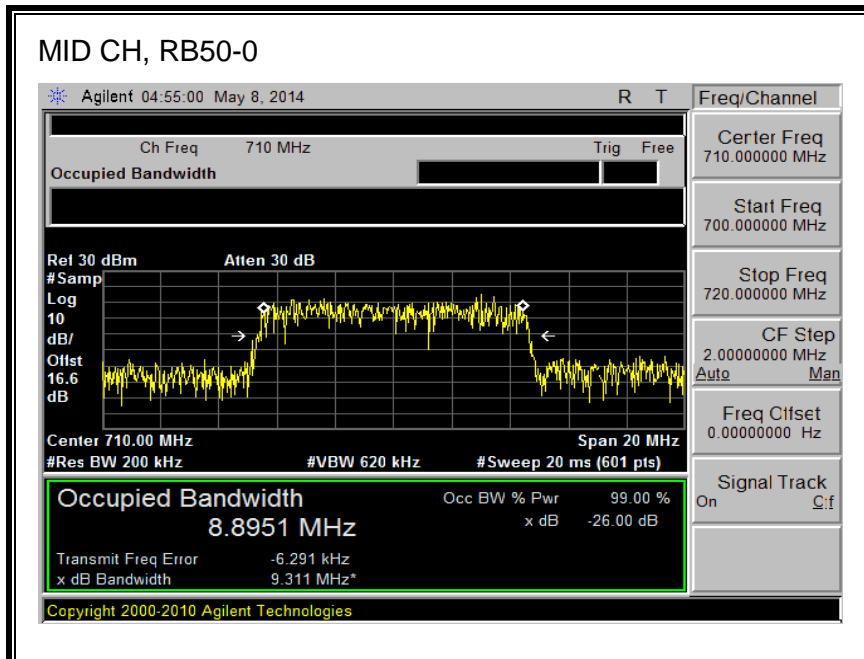
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

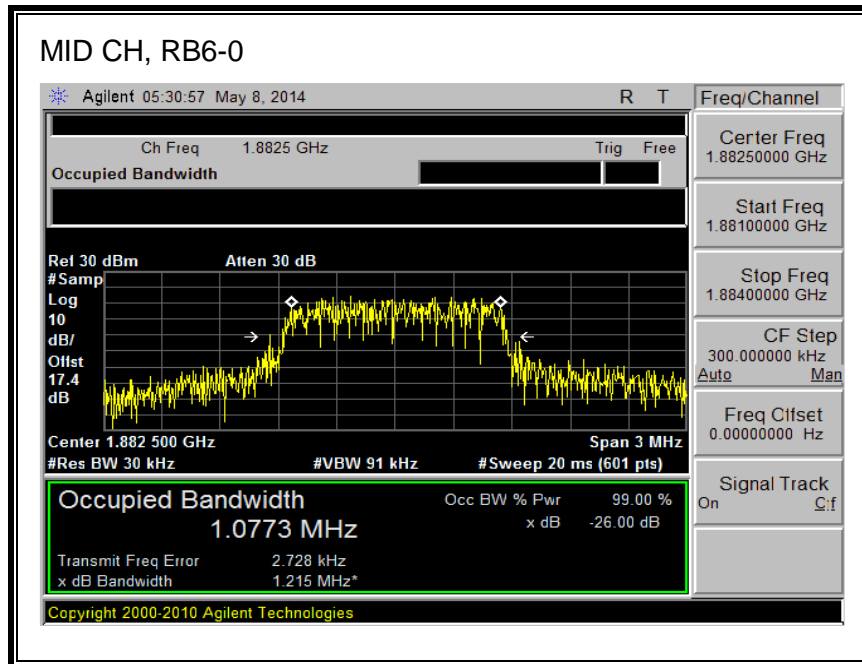


16QAM, (10.0 MHz BAND WIDTH)

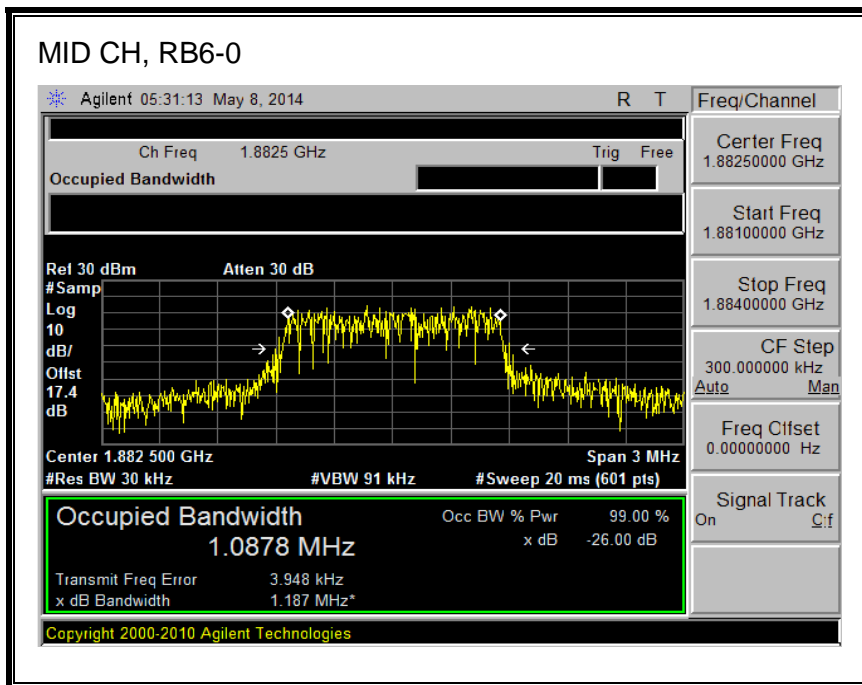


8.1.6. LTE BAND 25

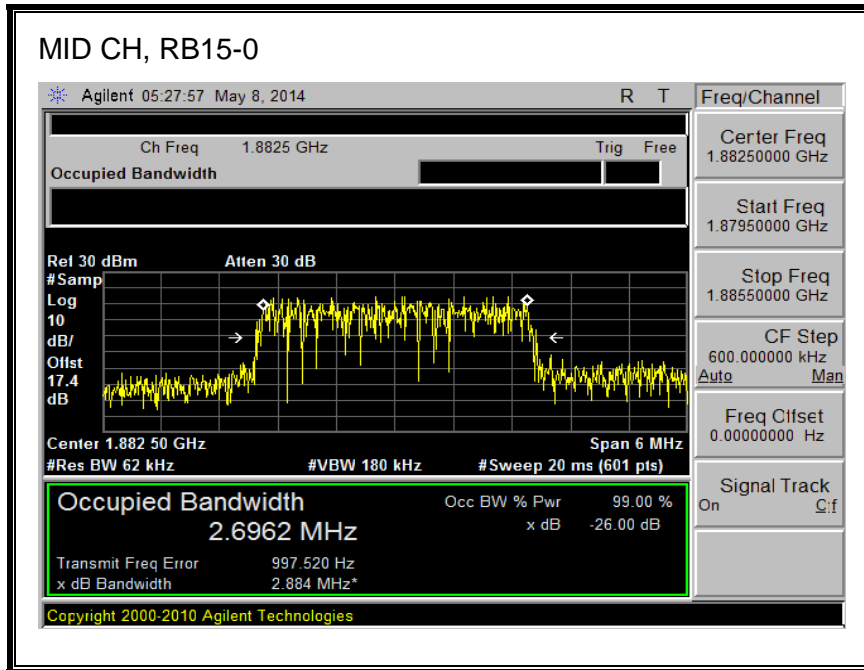
QPSK, (1.4 MHz BAND WIDTH)



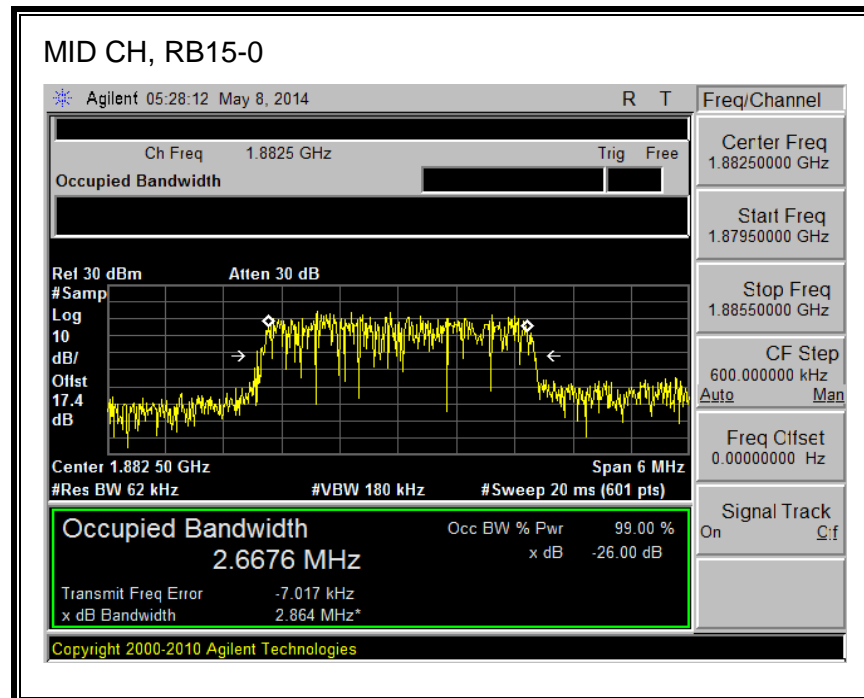
16QAM, (1.4 MHz BAND WIDTH)



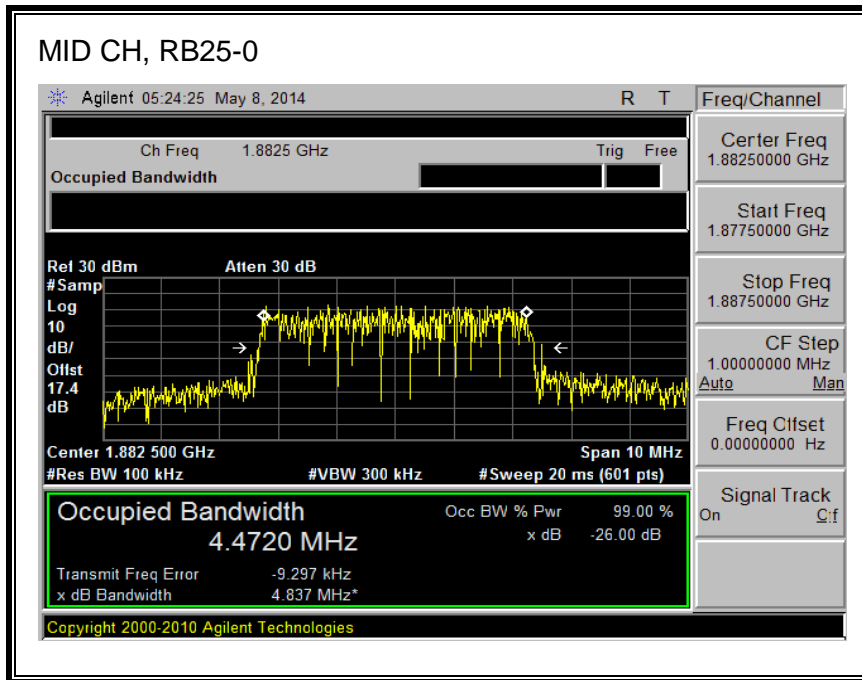
QPSK, (3.0 MHz BAND WIDTH)



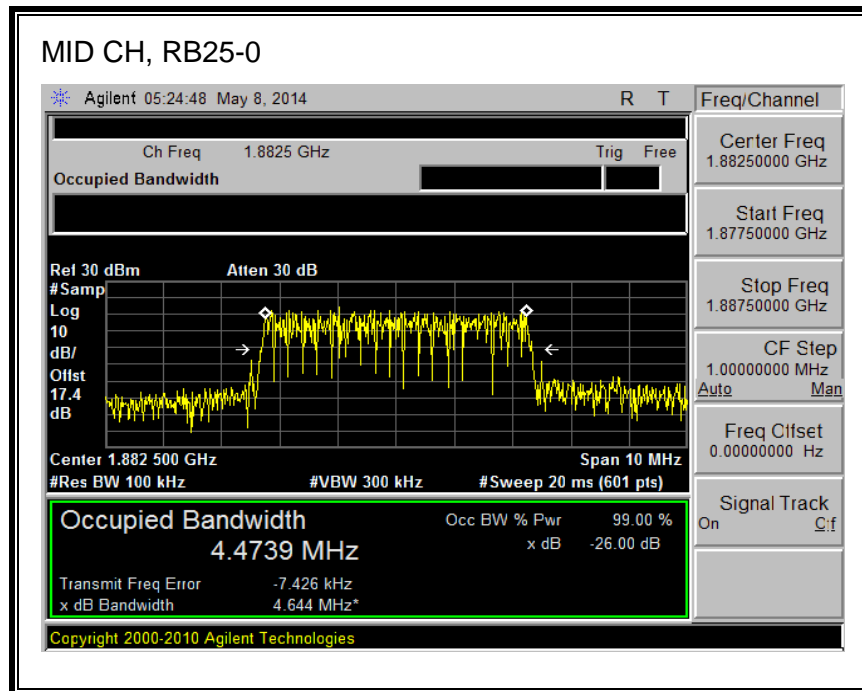
16QAM, (3.0 MHz BAND WIDTH)



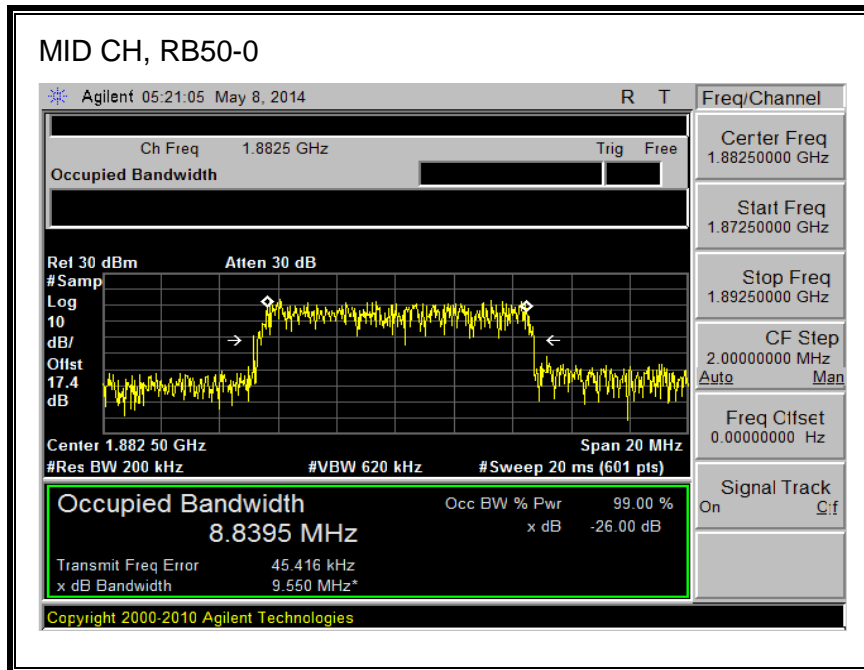
QPSK, (5.0 MHz BAND WIDTH)



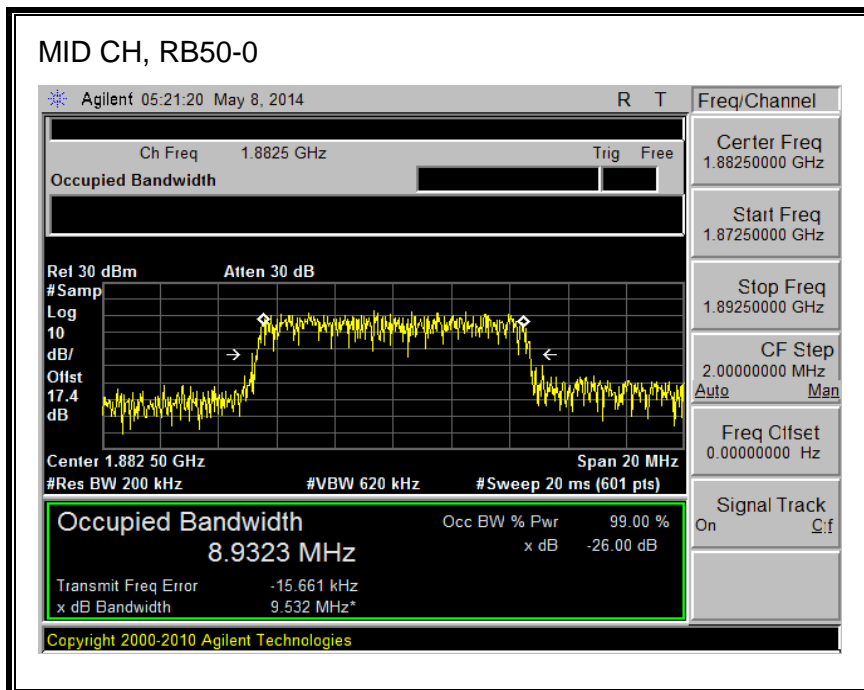
16QAM, (5.0 MHz BAND WIDTH)



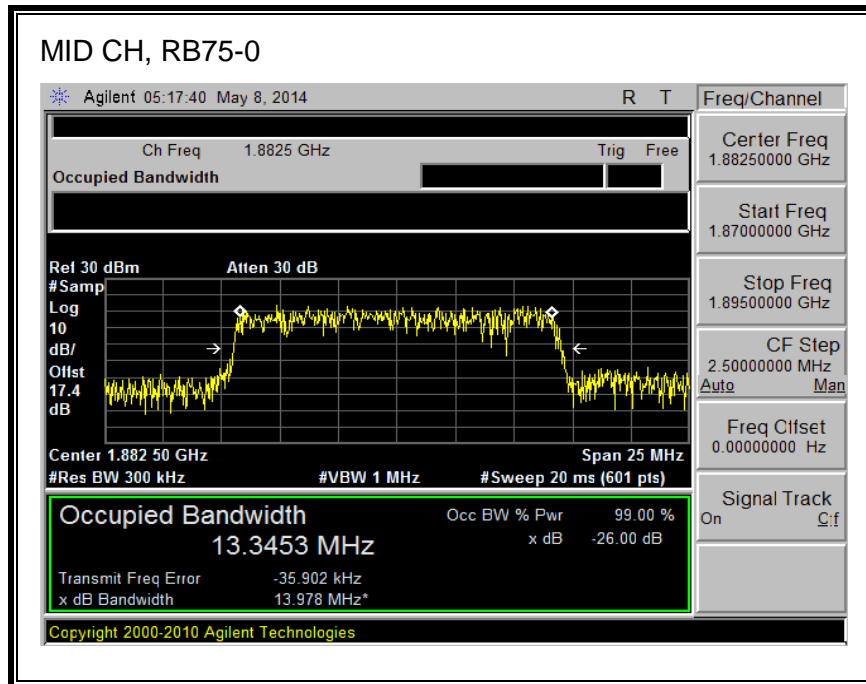
QPSK, (10.0 MHz BAND WIDTH)



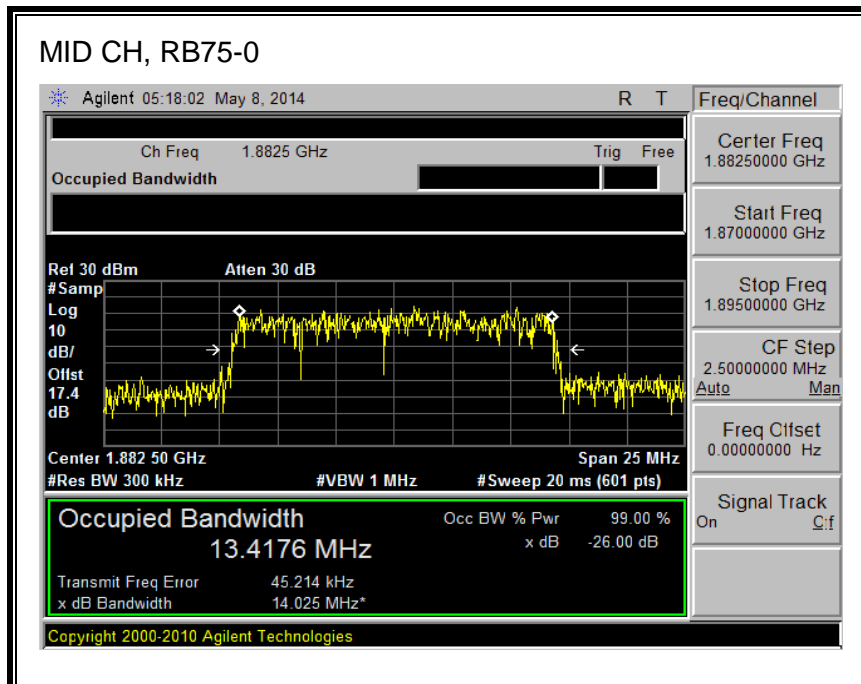
16QAM, (10.0 MHz BAND WIDTH)



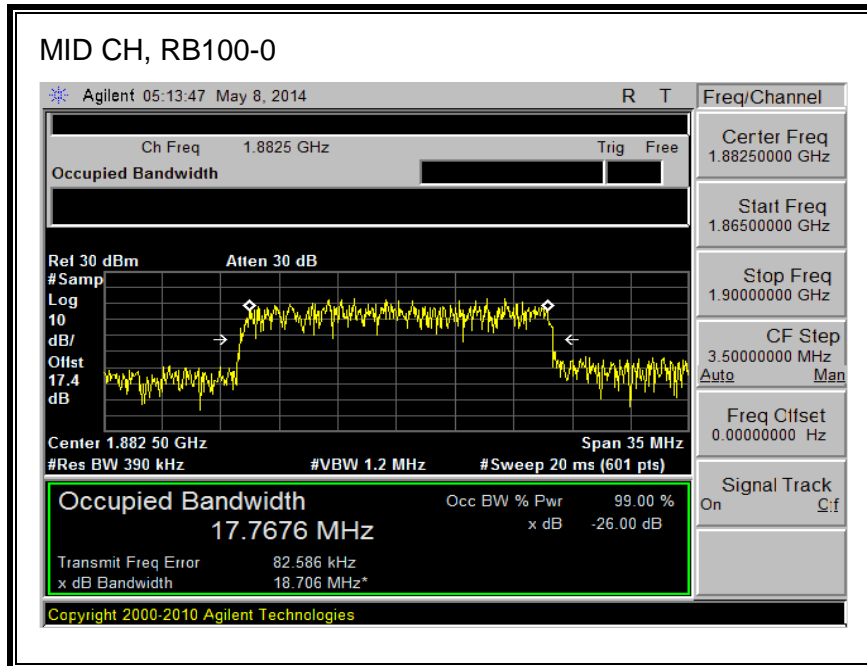
QPSK, (15.0 MHz BAND WIDTH)



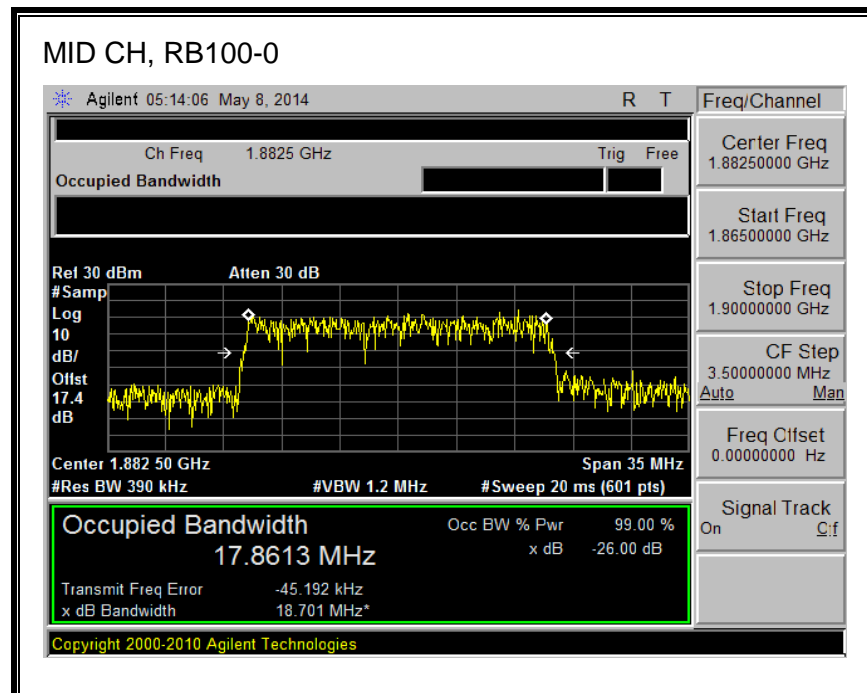
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

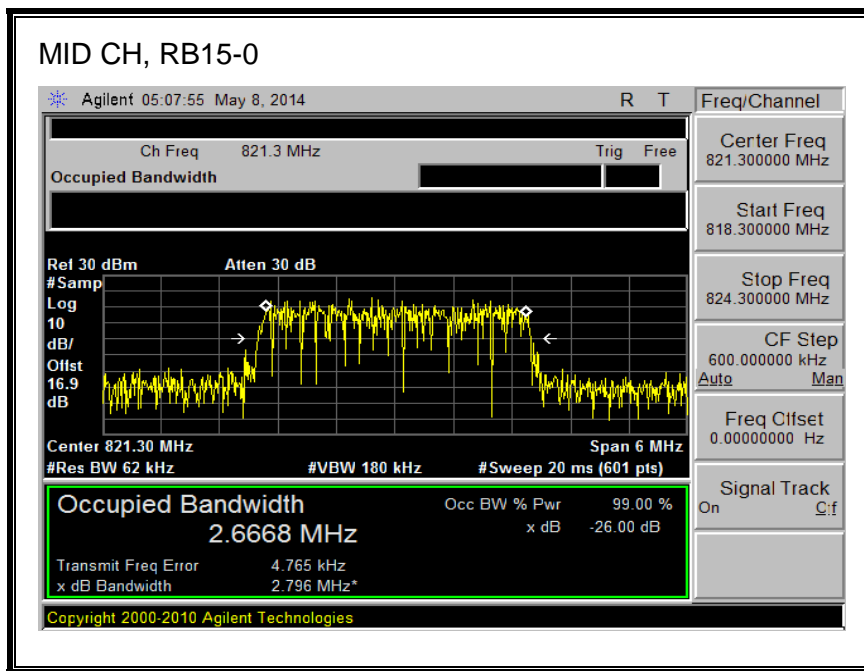


16QAM, (20.0 MHz BAND WIDTH)

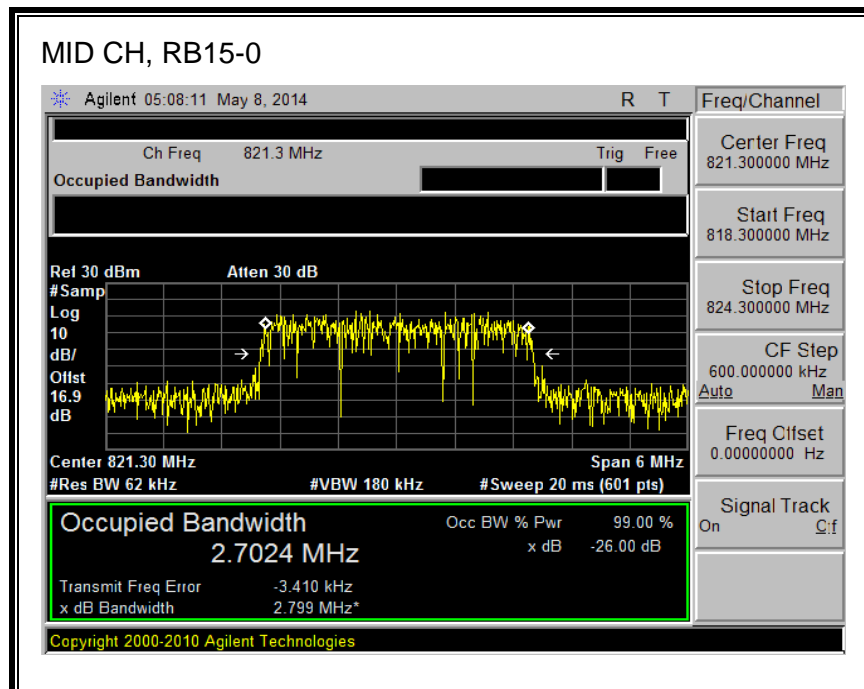


8.1.7. LTE BAND 26

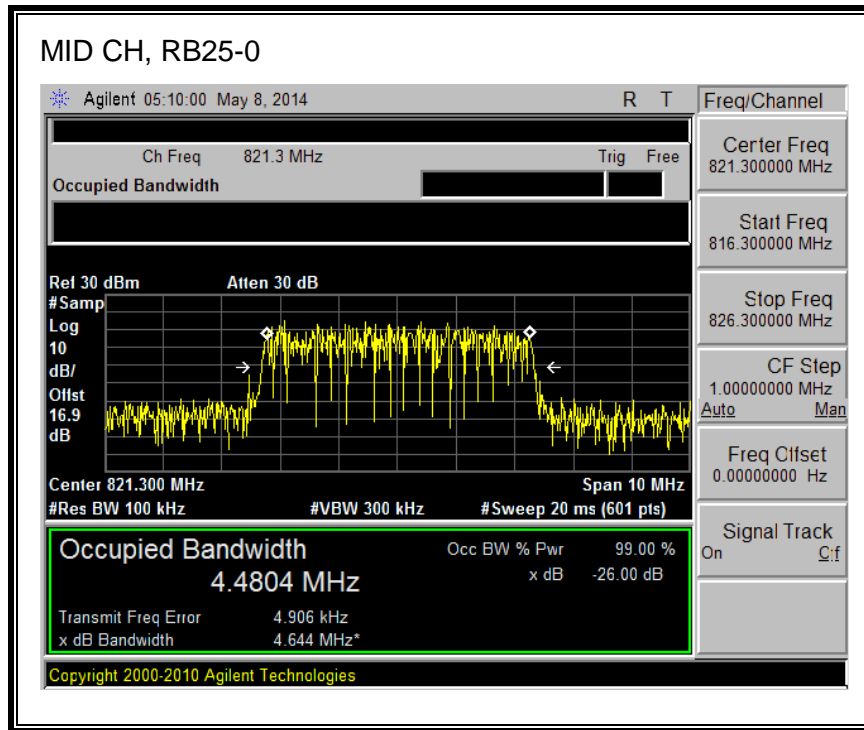
QPSK, (3.0 MHz BAND WIDTH)



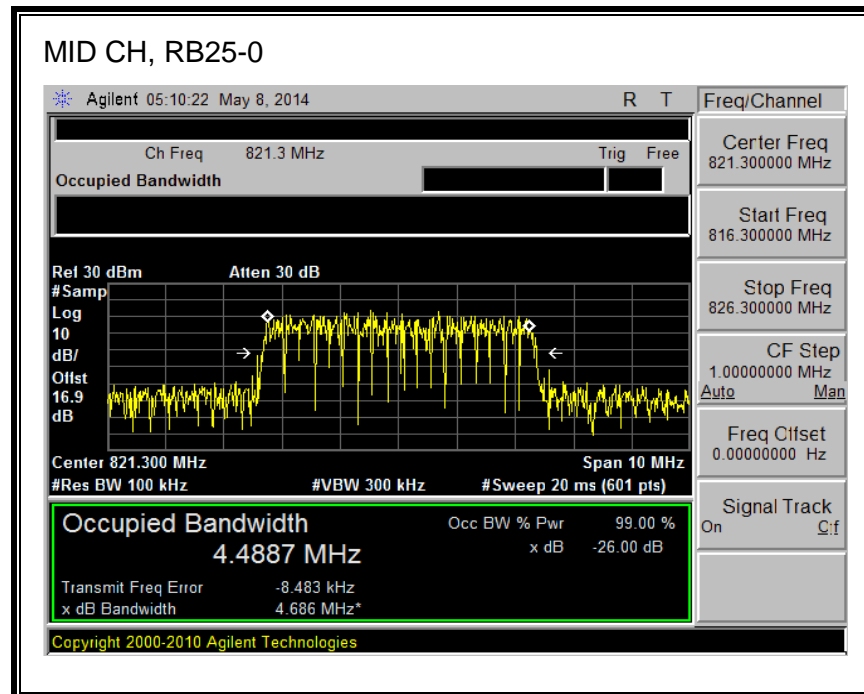
16QAM, (3.0 MHz BAND WIDTH)



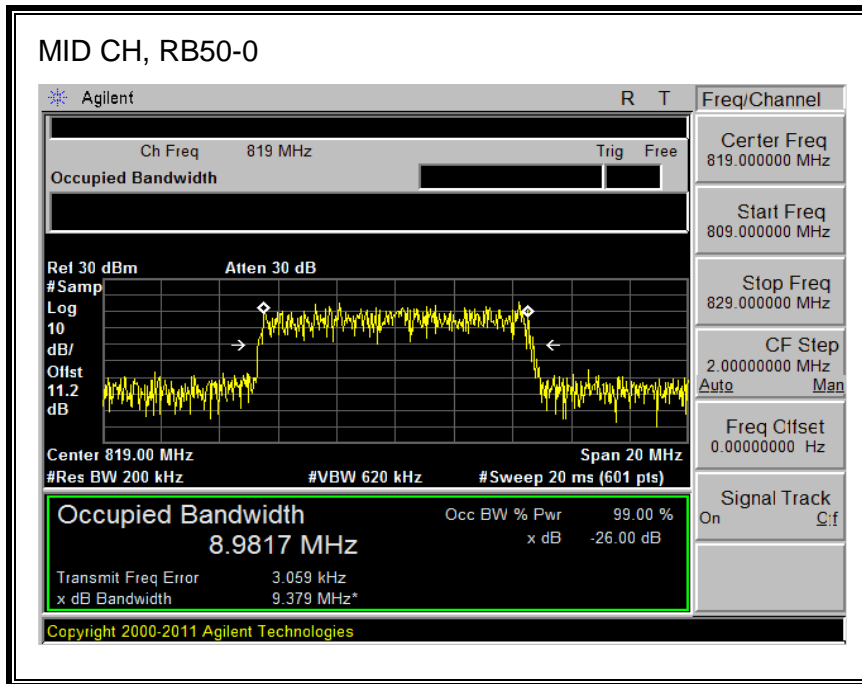
QPSK, (5.0 MHz BAND WIDTH)



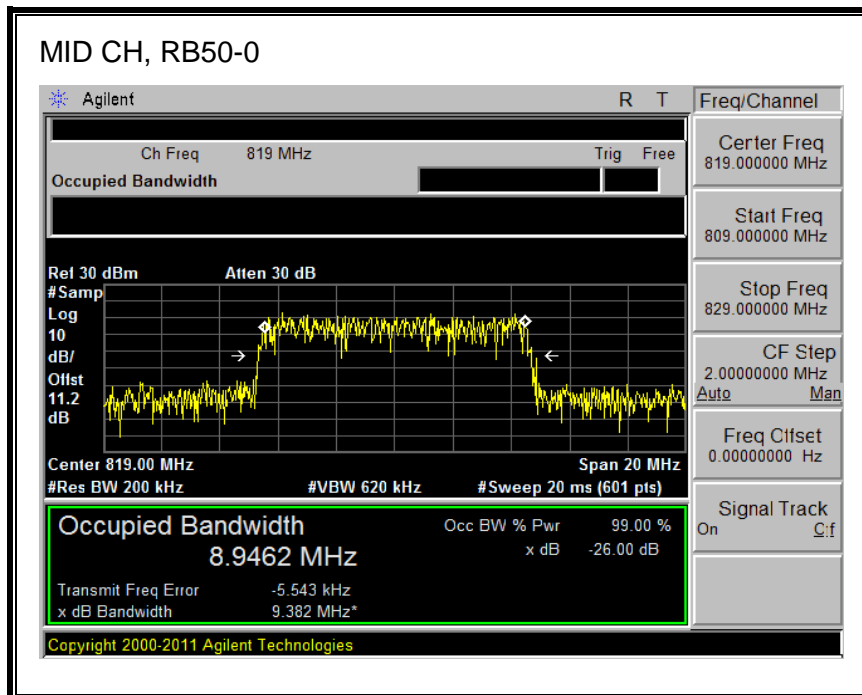
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

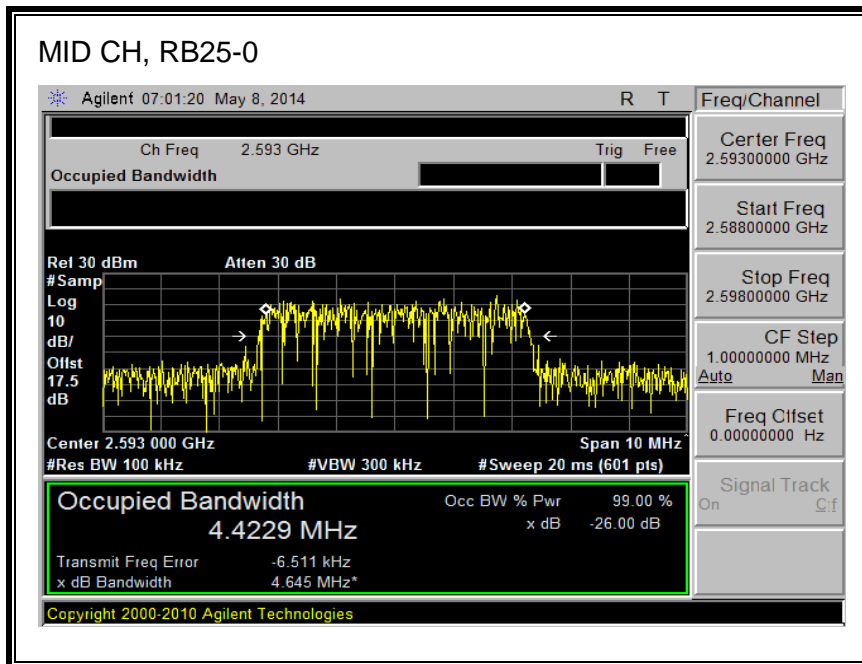


16QAM, (10.0 MHz BAND WIDTH)

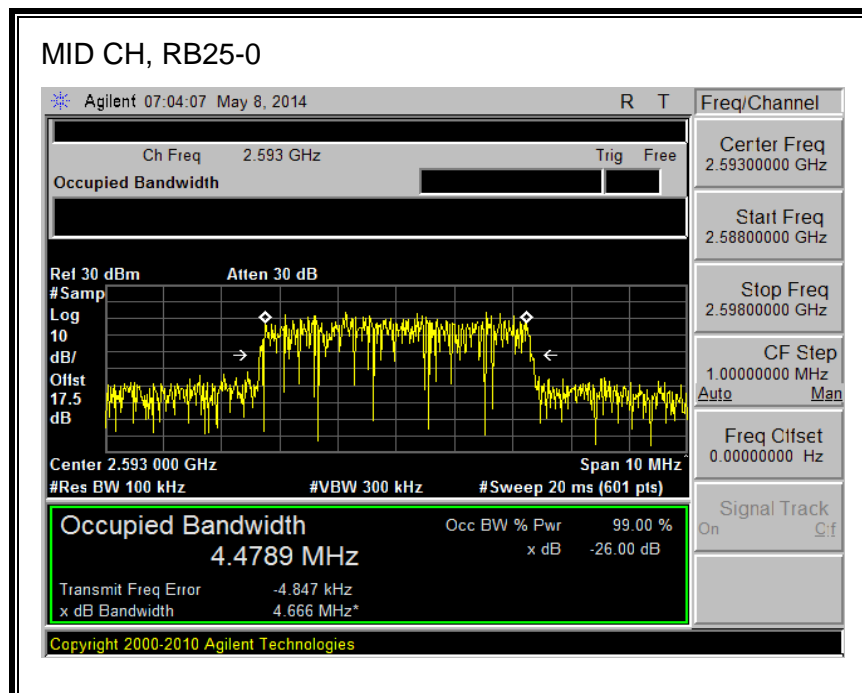


8.1.8. LTE BAND 41

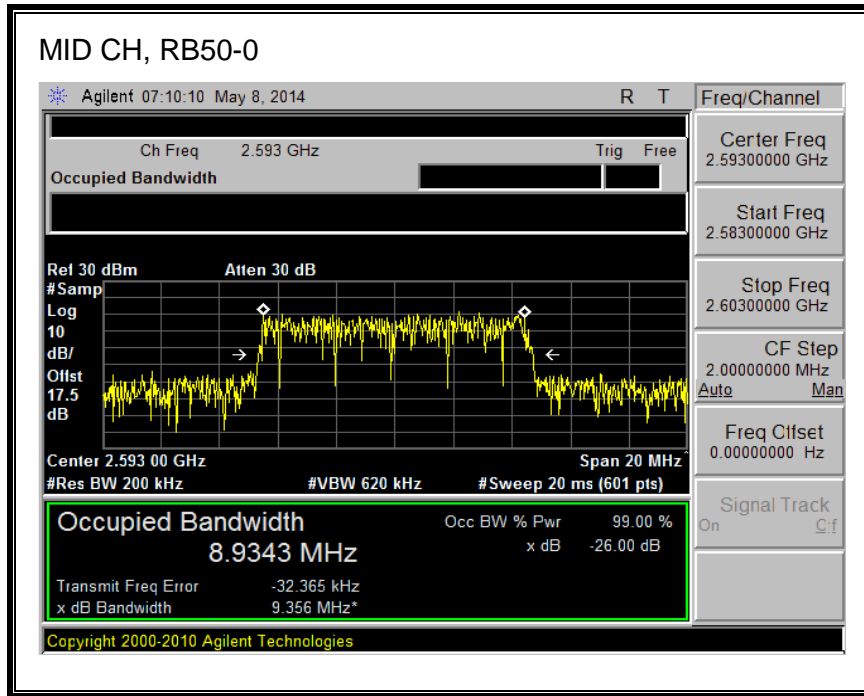
QPSK, (5.0 MHz BAND WIDTH)



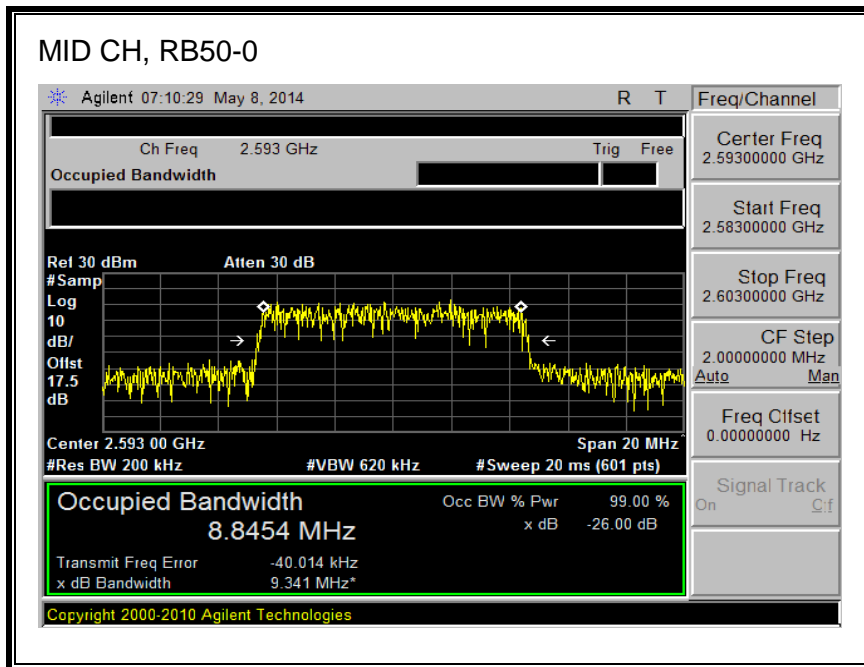
16QAM, (5.0 MHz BAND WIDTH)



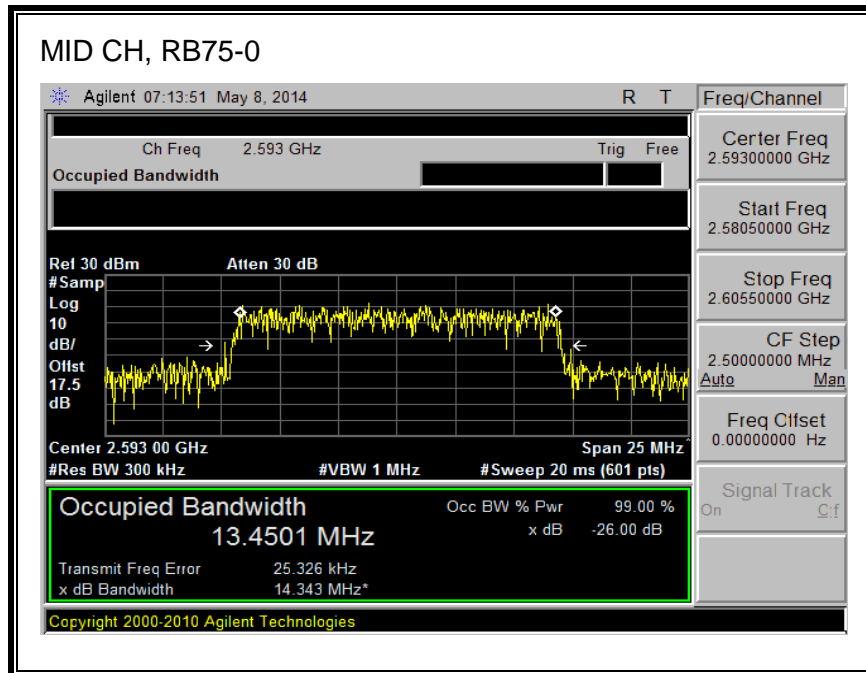
QPSK, (10.0 MHz BAND WIDTH)



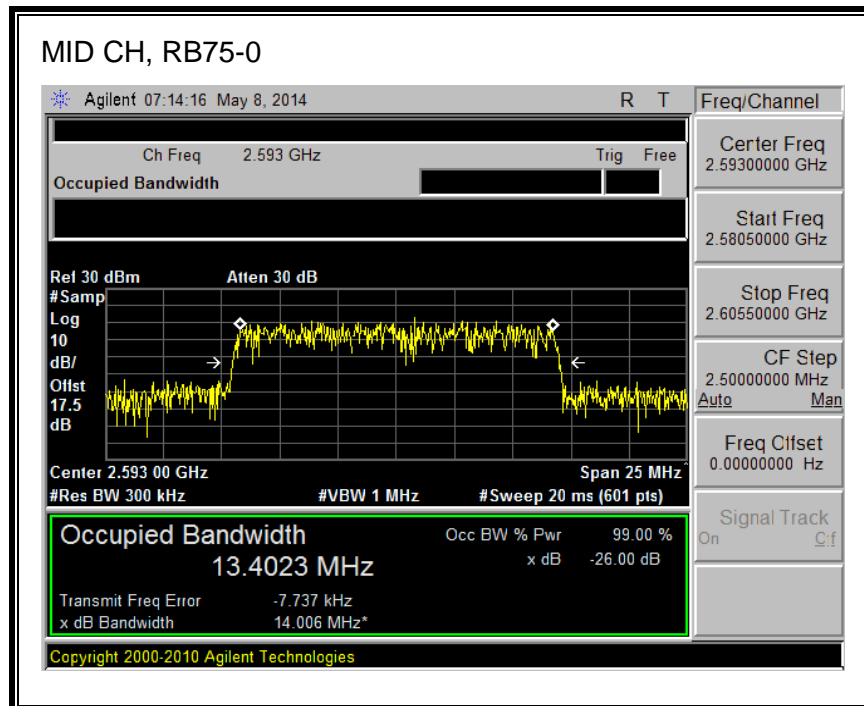
16QAM, (10.0 MHz BAND WIDTH)



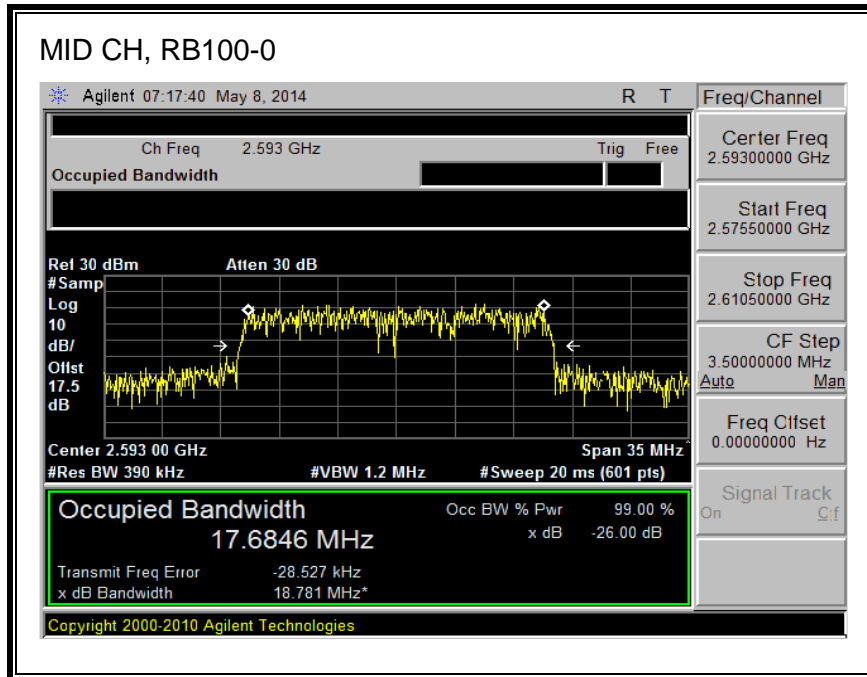
QPSK, (15.0 MHz BAND WIDTH)



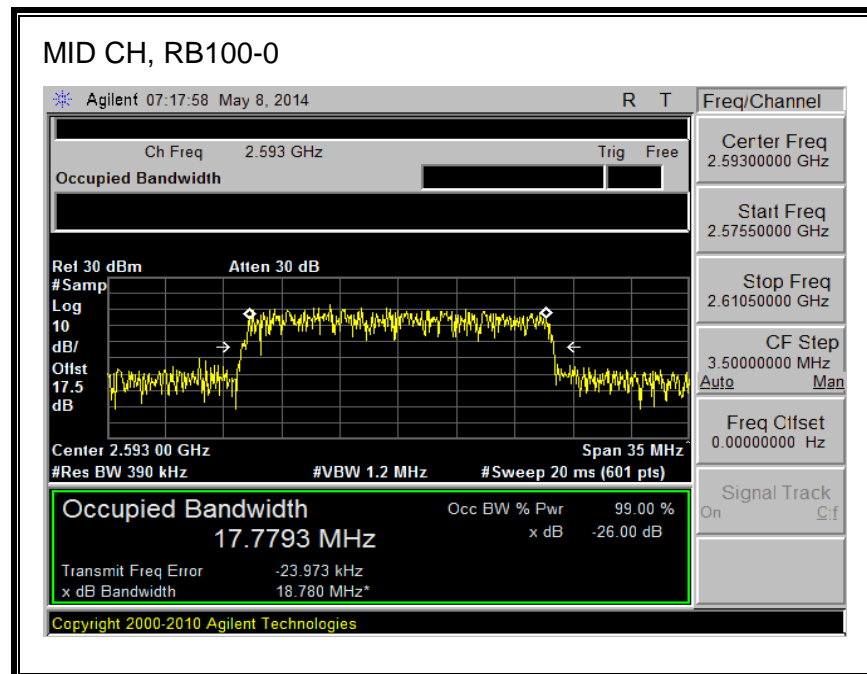
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)



16QAM, (20.0 MHz BAND WIDTH)



8.2. BANDEDGE AND EMISSION MASK

RULE PART(S)

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

FCC: §22.359

FCC: §27.53 (LTE BAND 41)

LIMITS

FCC: §22.359, §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 $116 \text{Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{Log}_{10}(P)$ 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 $43 + 10 \text{Log}_{10}(P)$ 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. (NOTE: Use 100 kHz reference bandwidth.)

FCC: §27.53

(c) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

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

FCC: §27.53 (LTE BAND 41)

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

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

FCC: §90.210, and §90.691

(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 $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ 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 $43 + 10 \text{ Log}_{10}(P)$ 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. {NOTE: Use 100 kHz reference bandwidth.}

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.

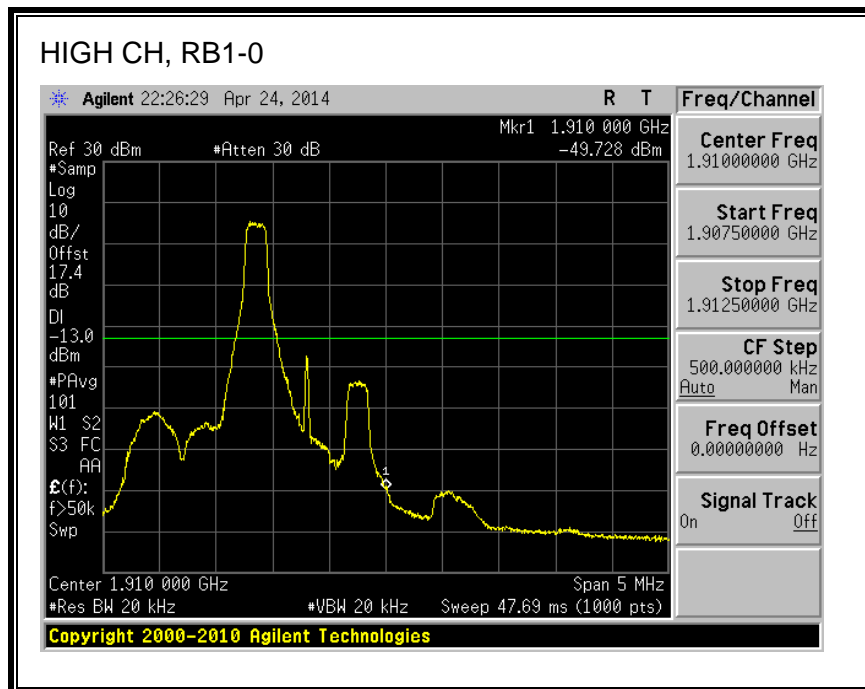
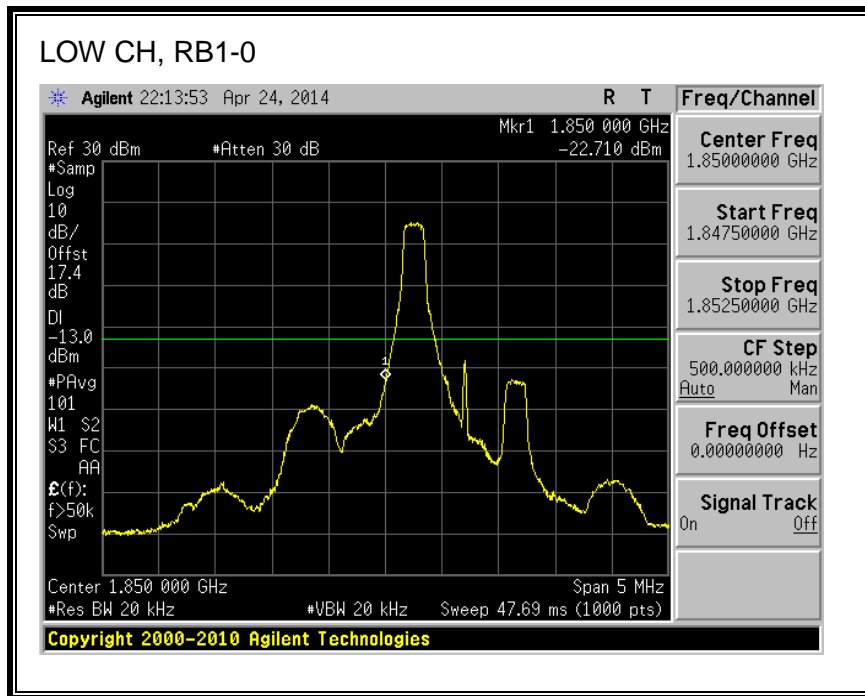
MODES TESTED

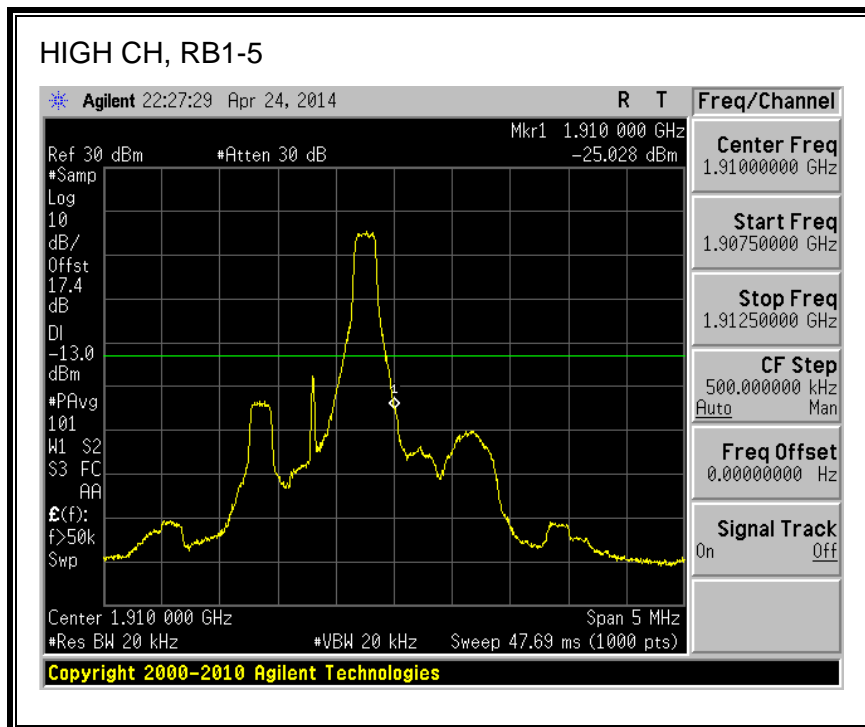
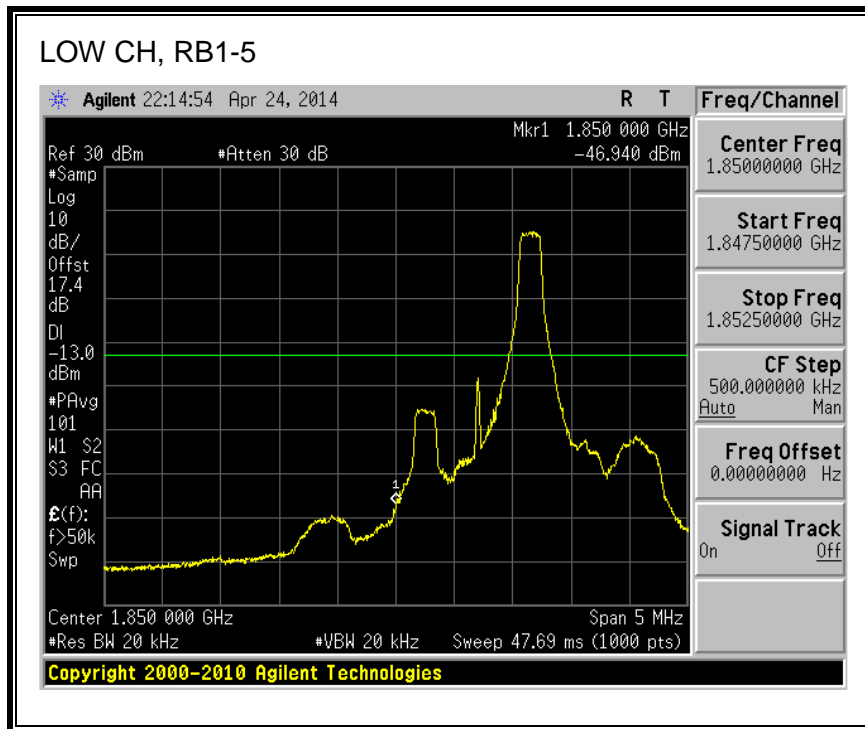
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

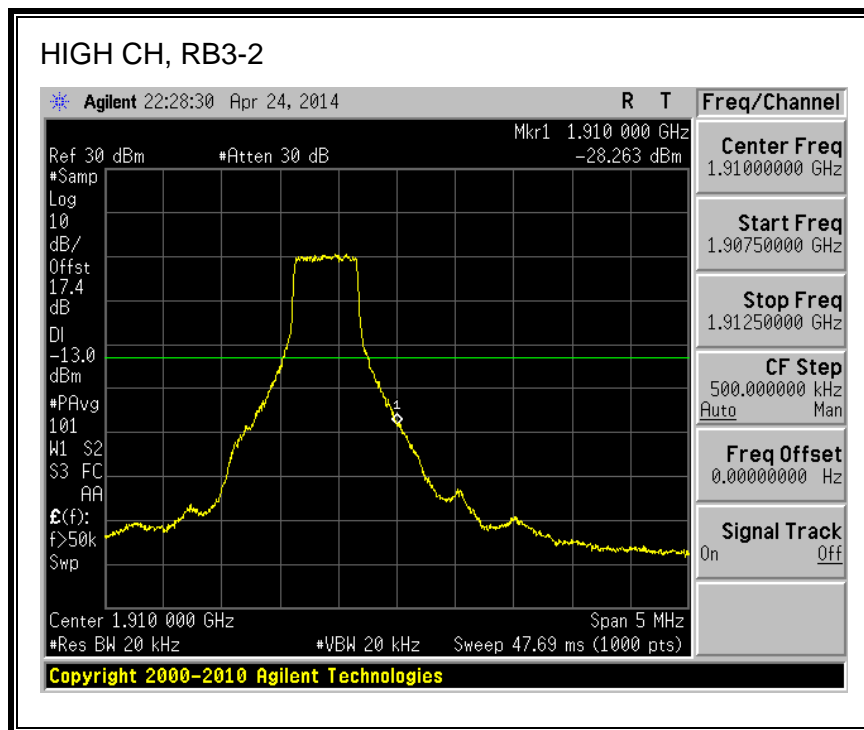
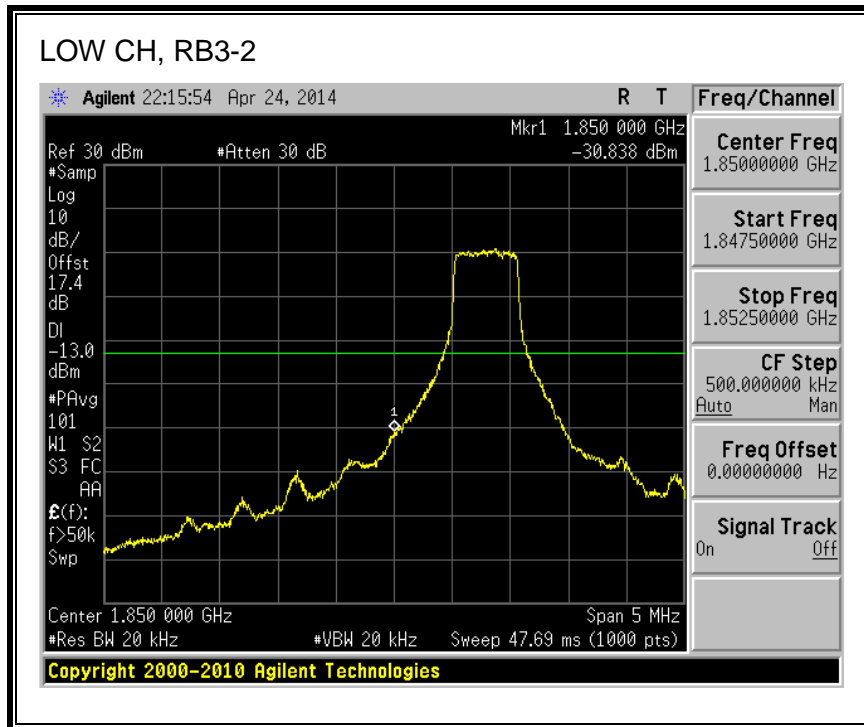
RESULTS

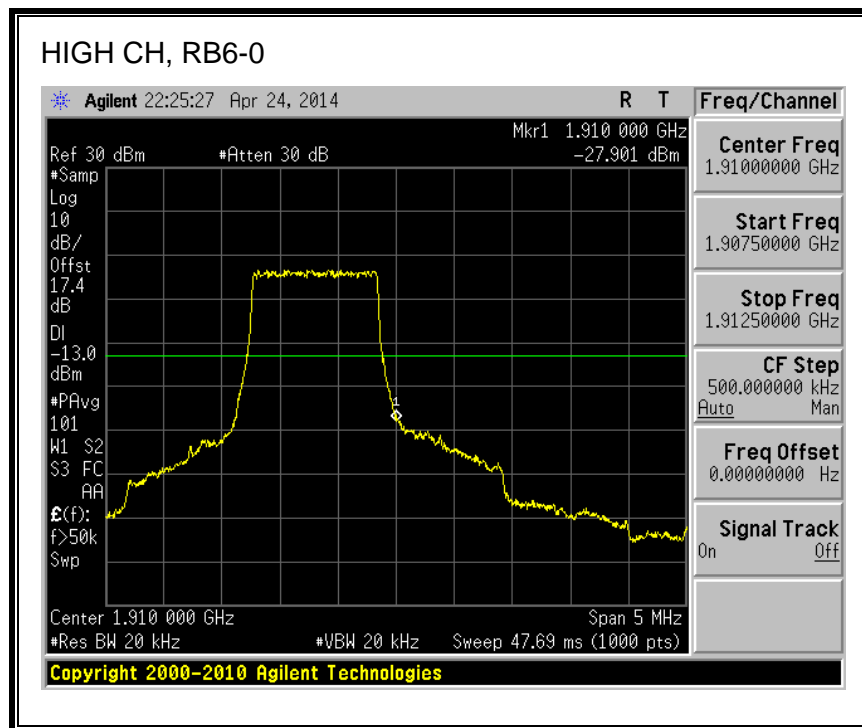
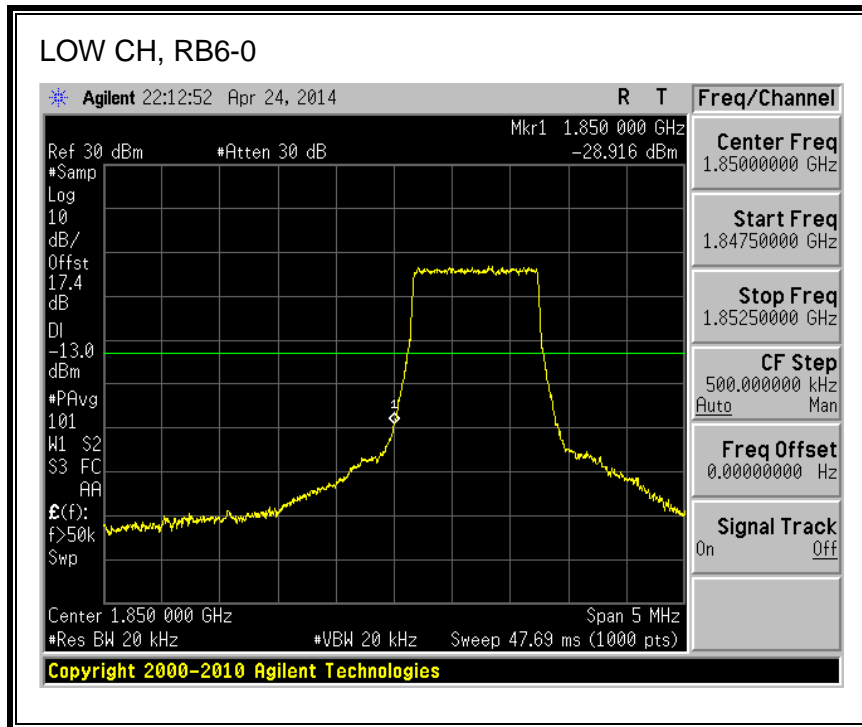
8.2.1. LTE BAND 2 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

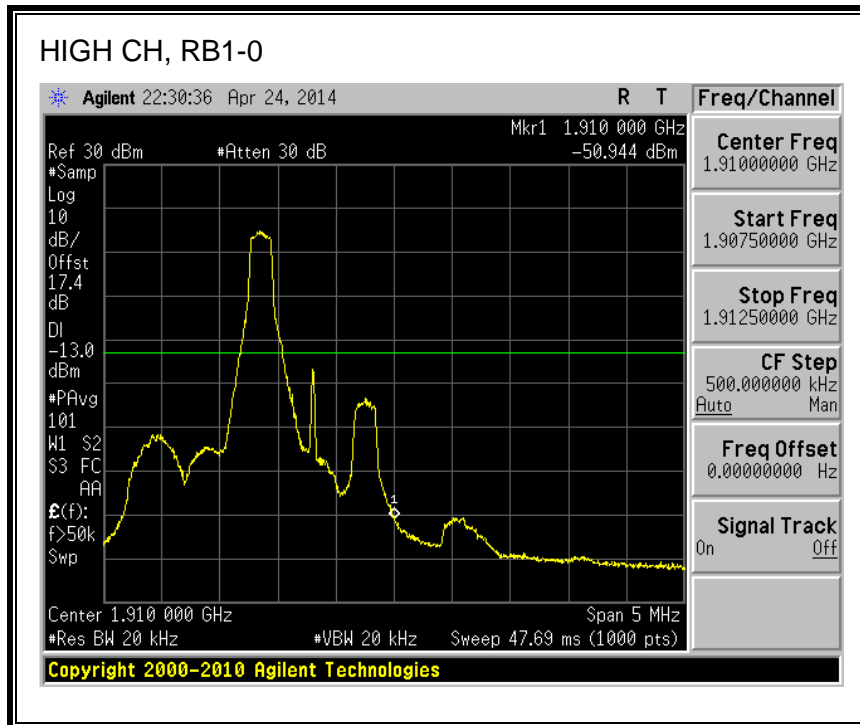
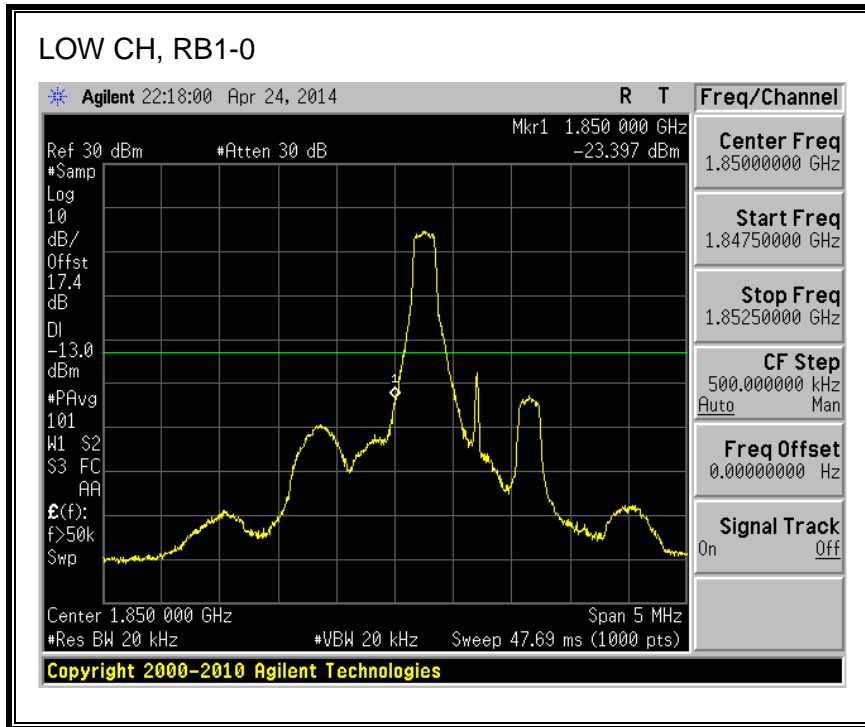


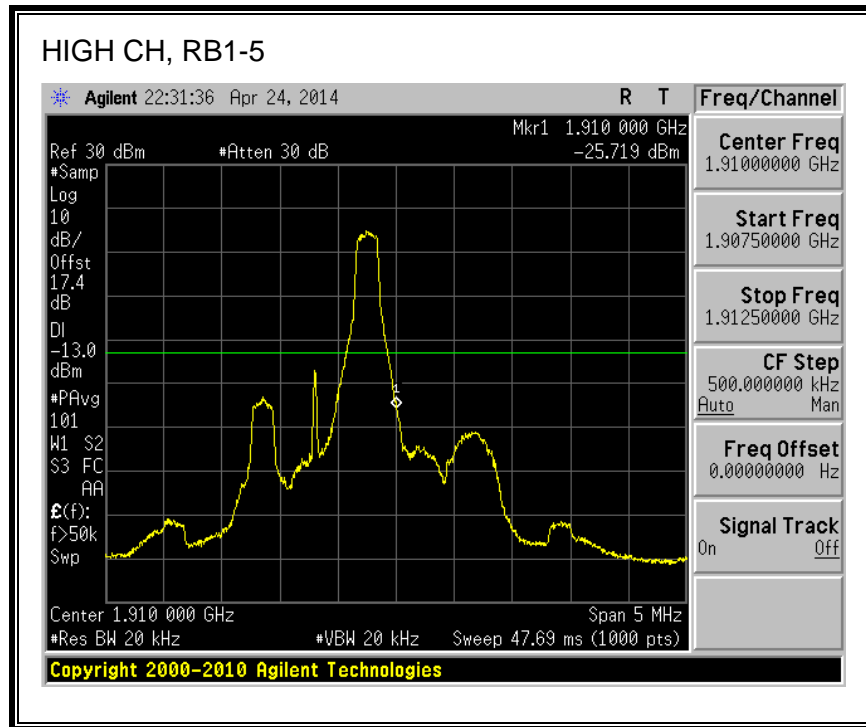
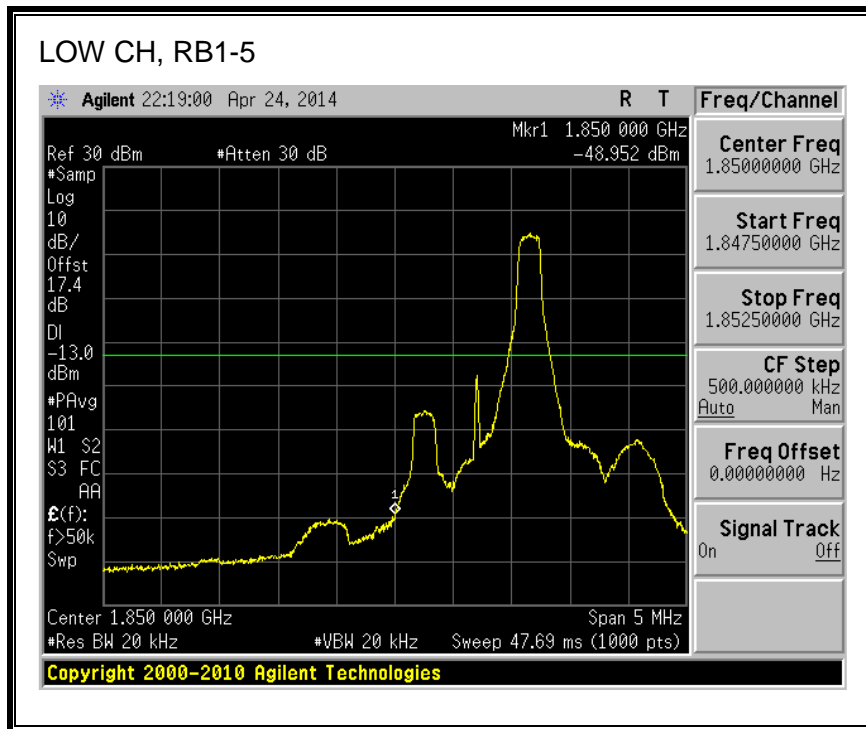


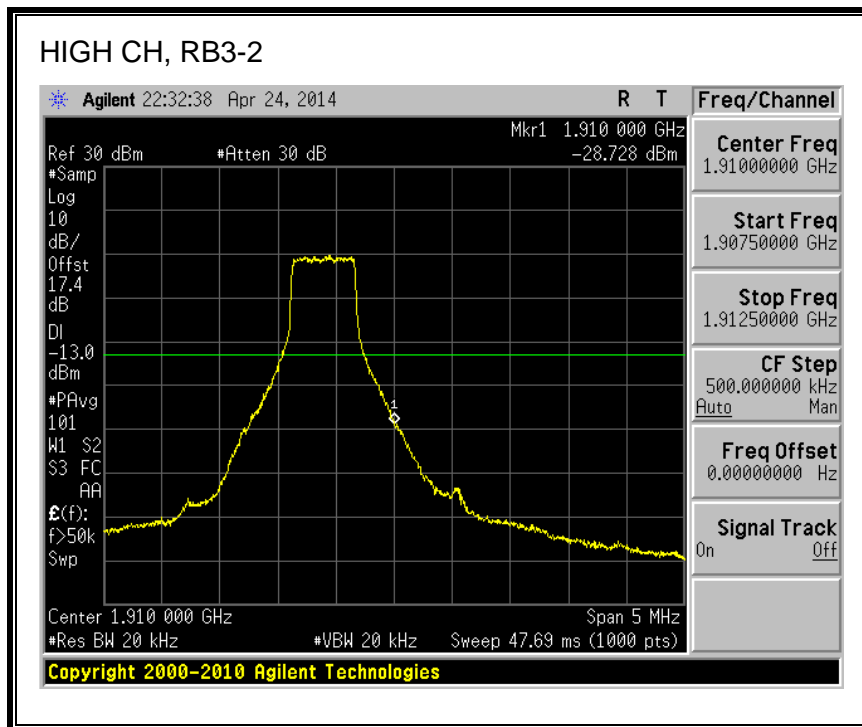
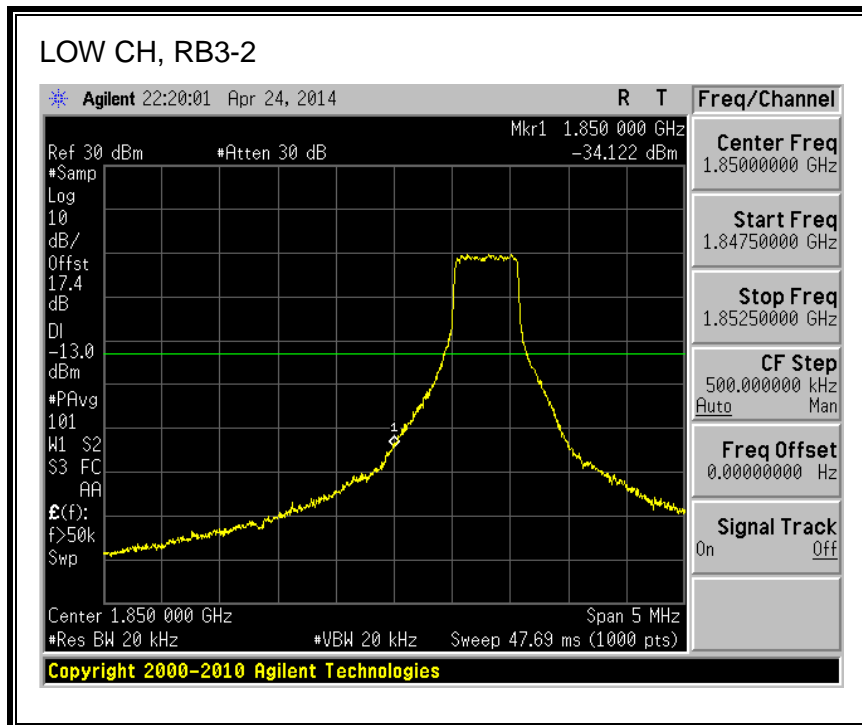


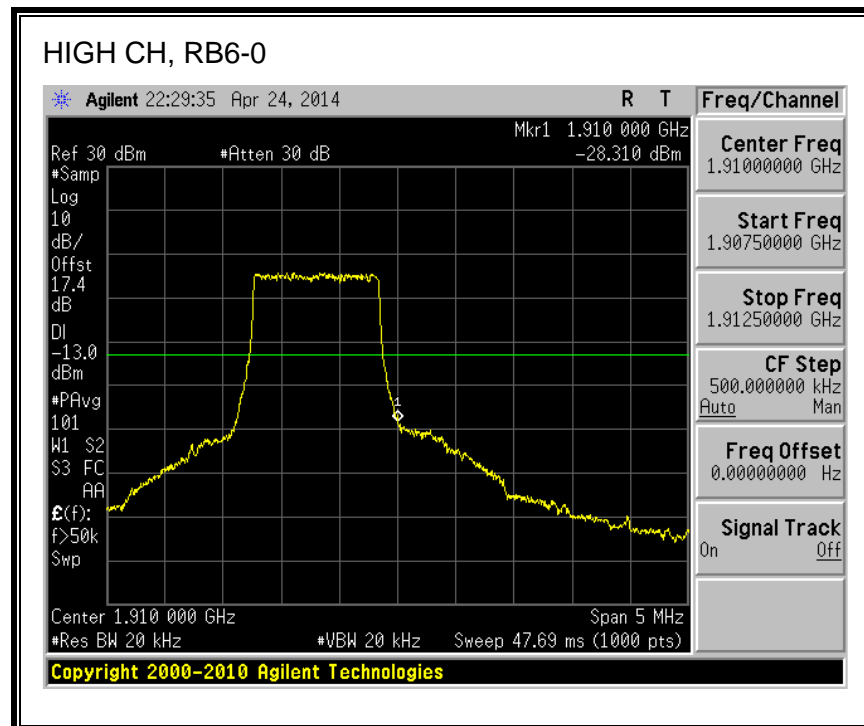
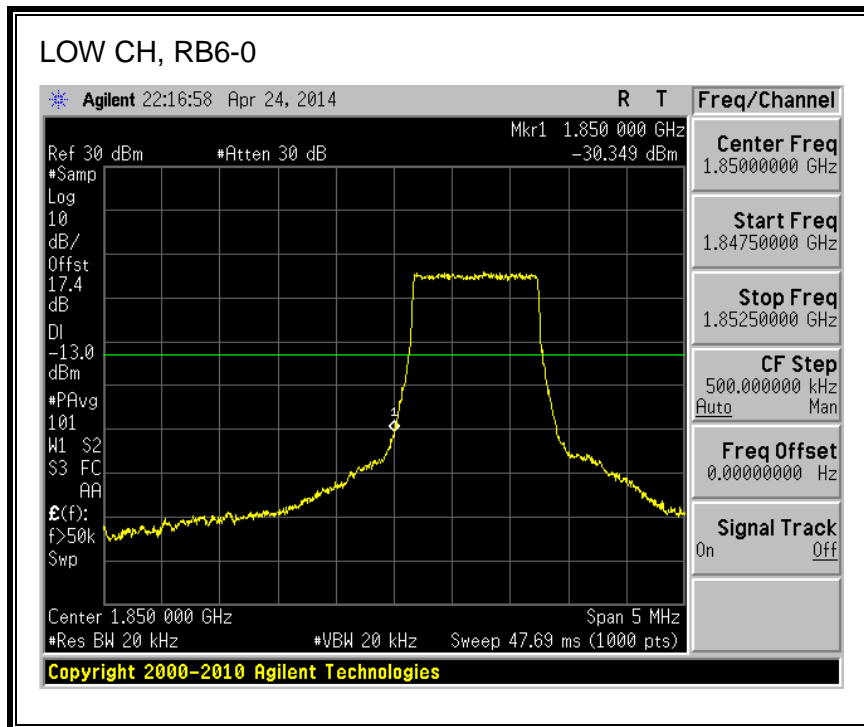


16QAM, (1.4 MHz BAND WIDTH)

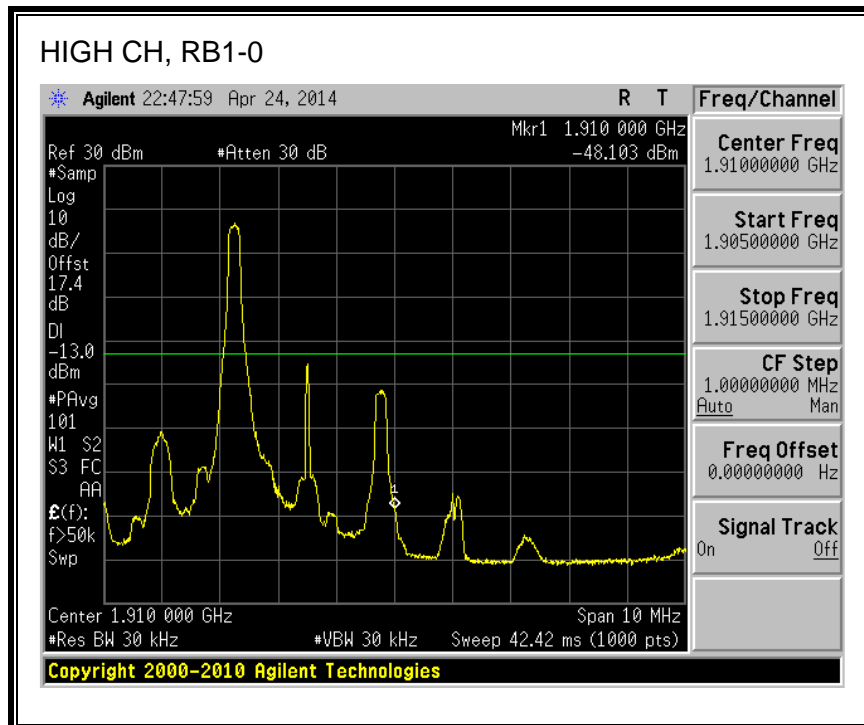
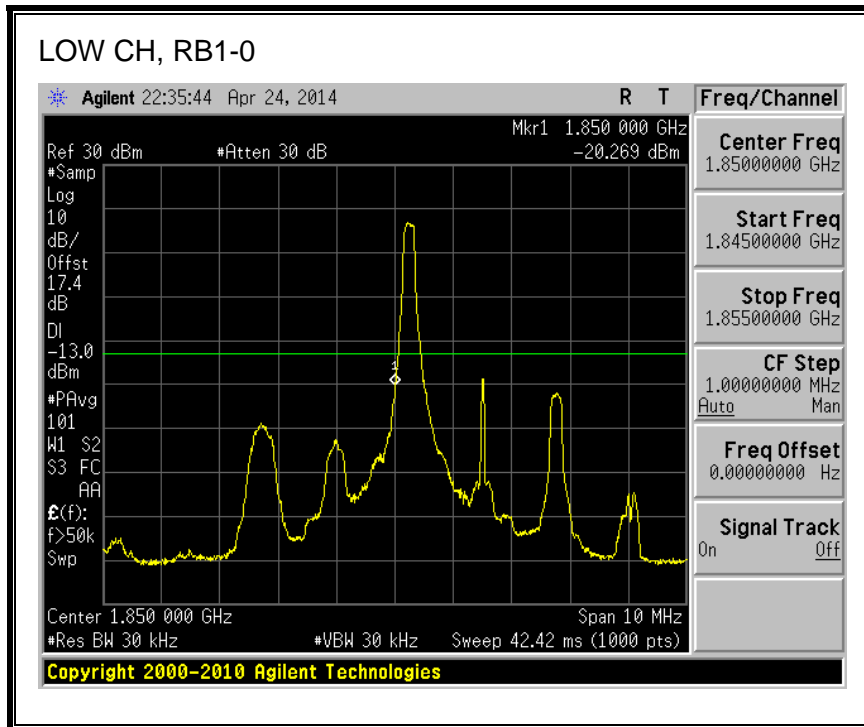


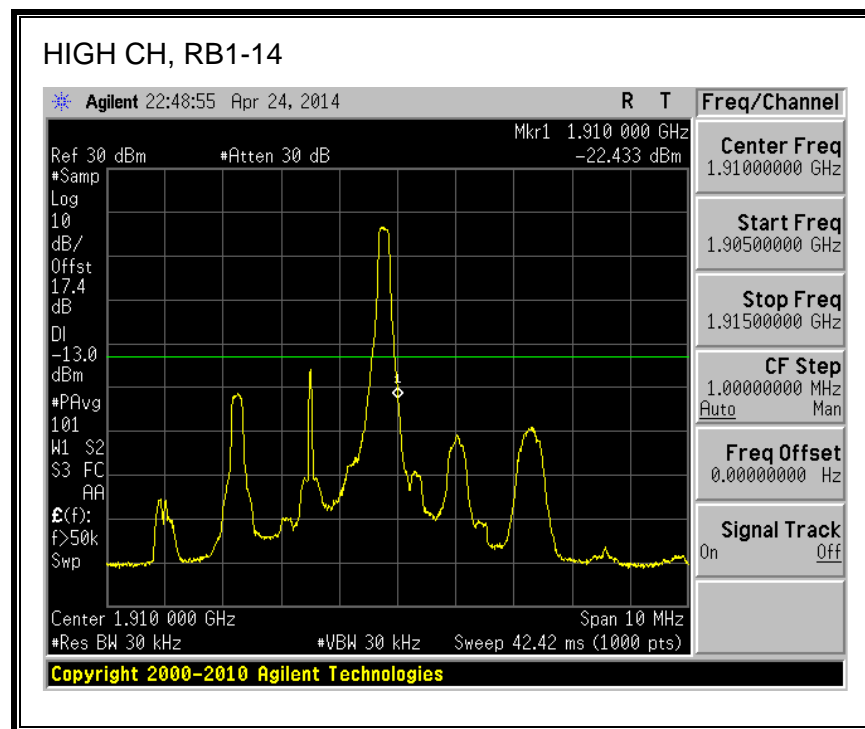
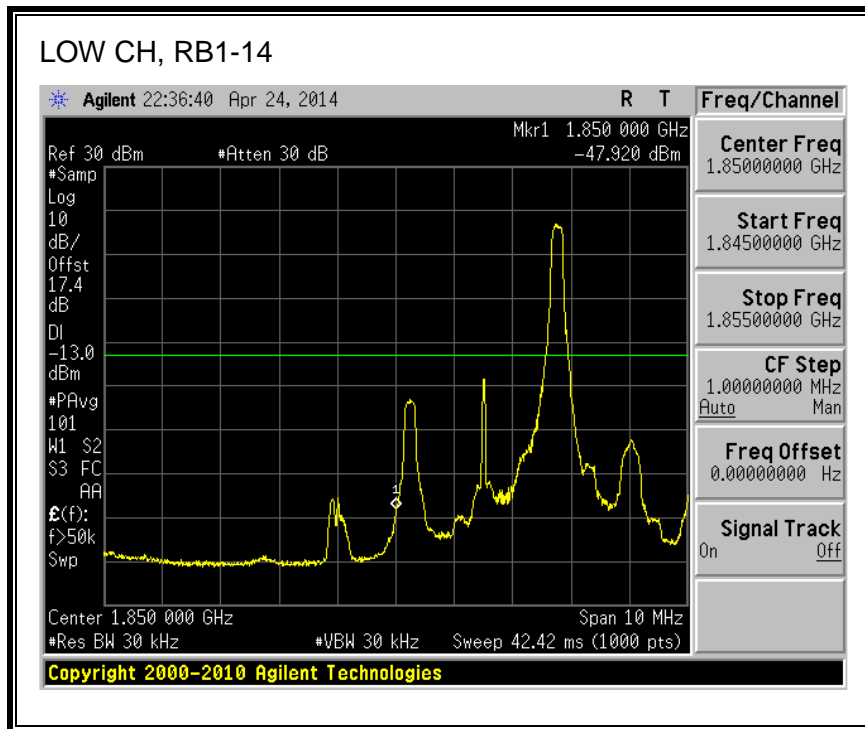


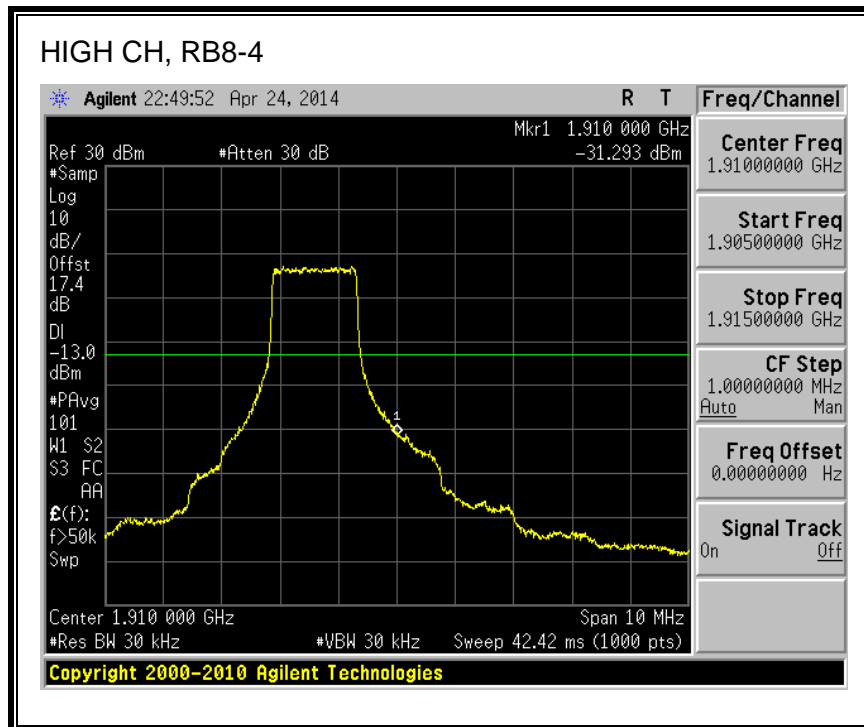
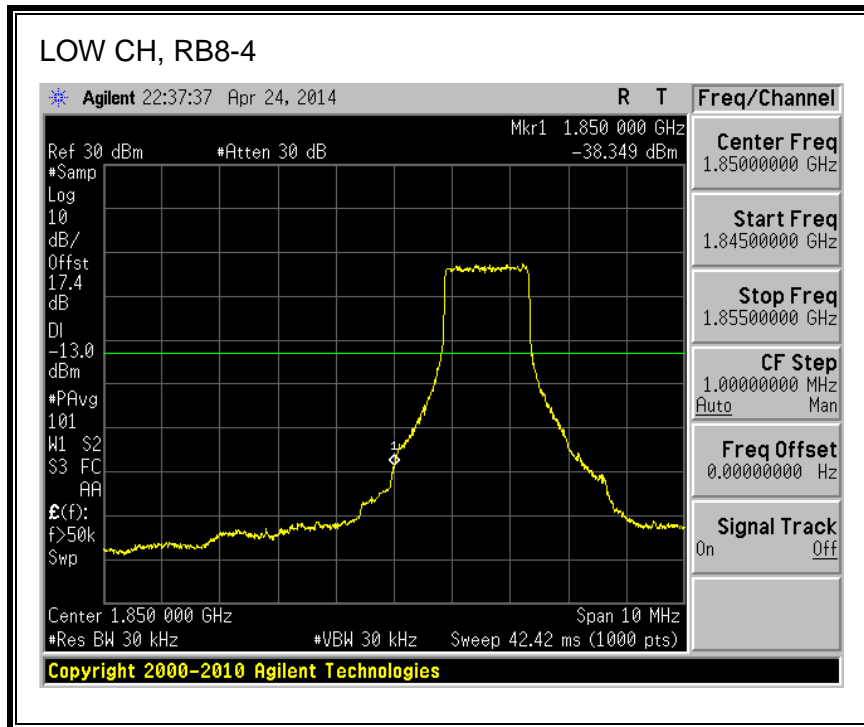


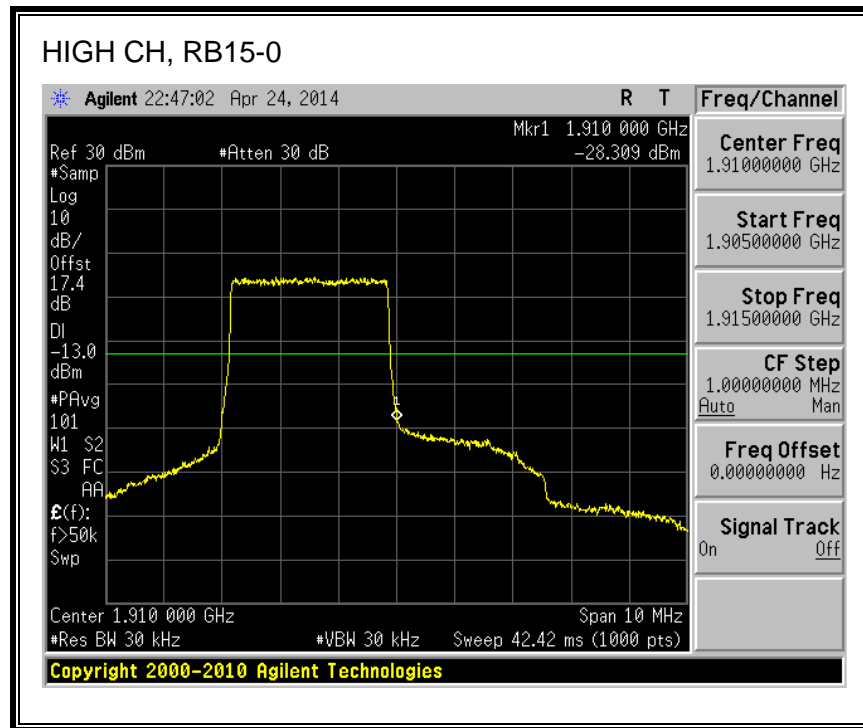
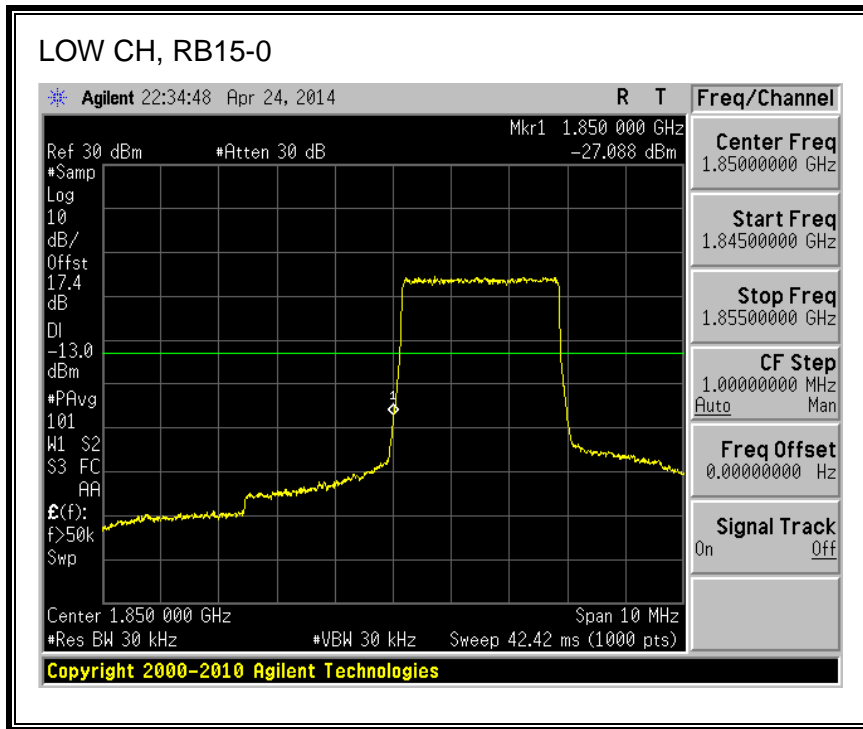


QPSK, (3.0 MHz BAND WIDTH)

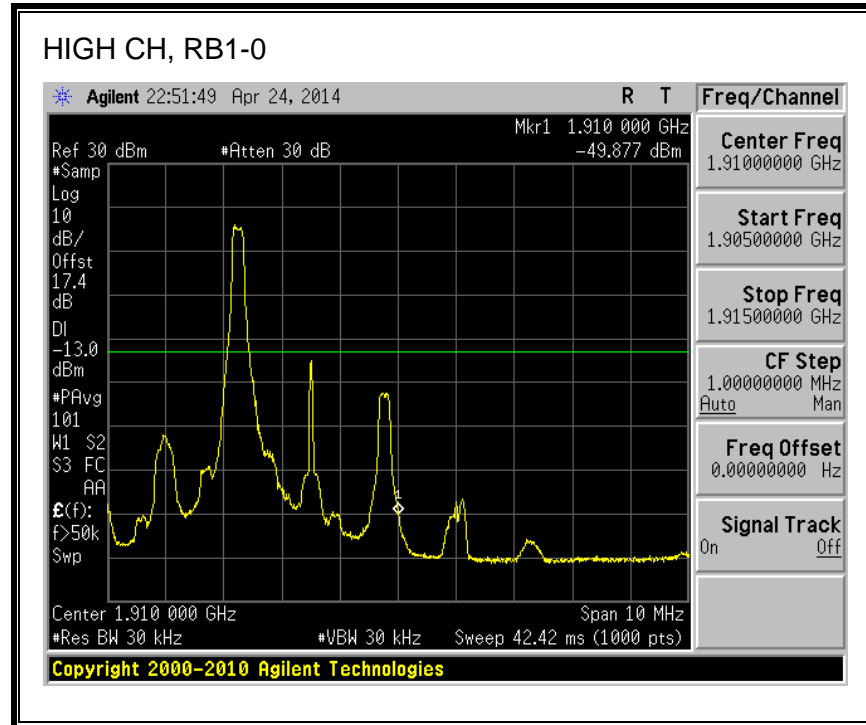
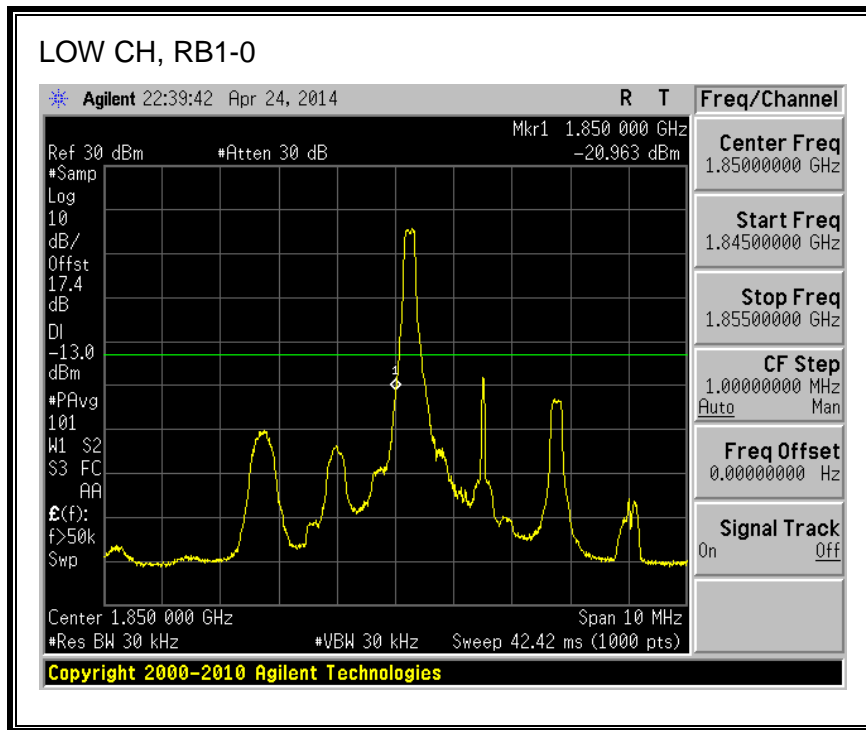


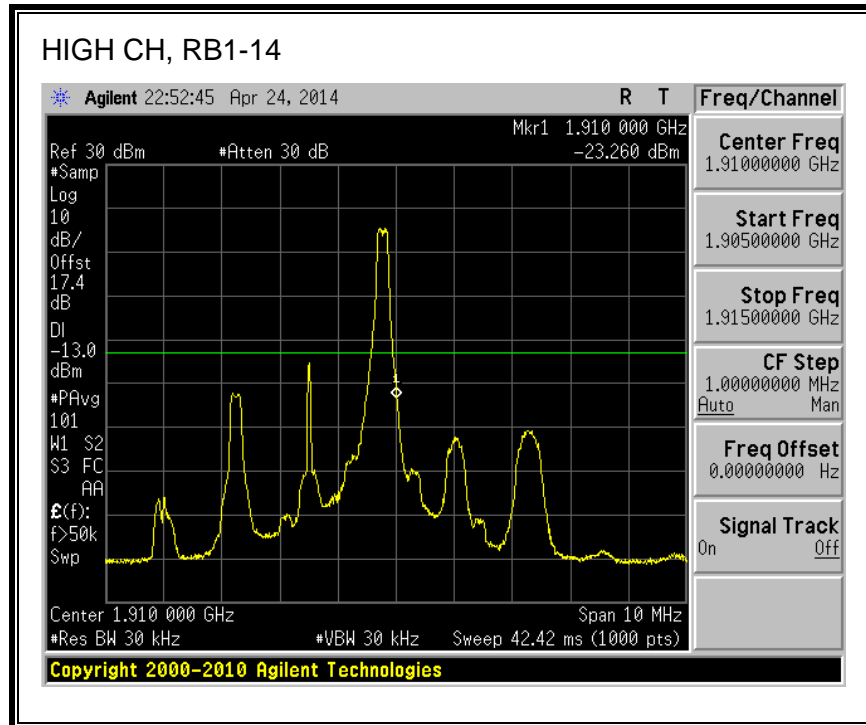
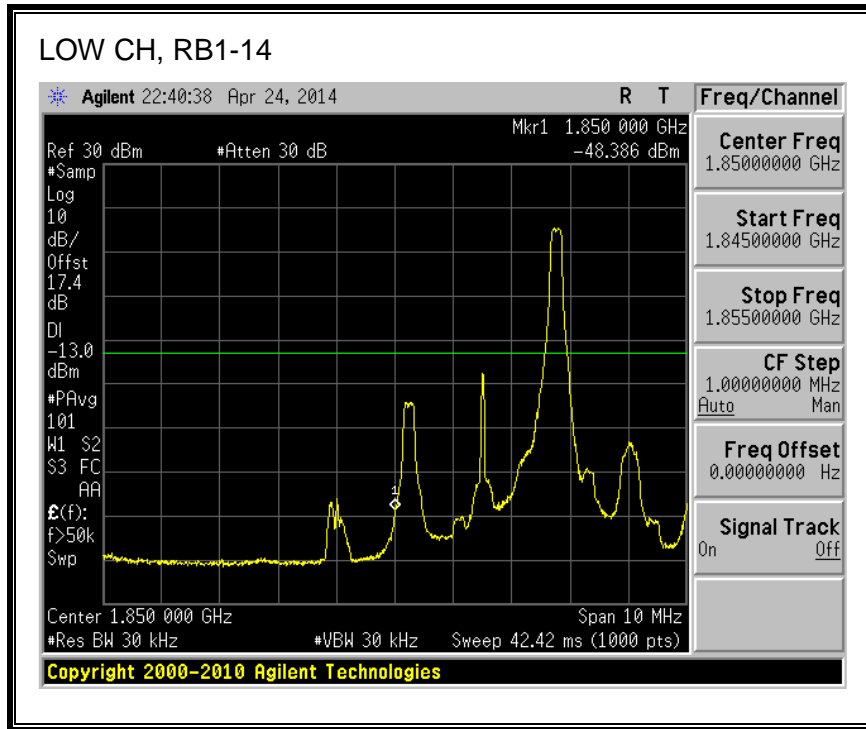


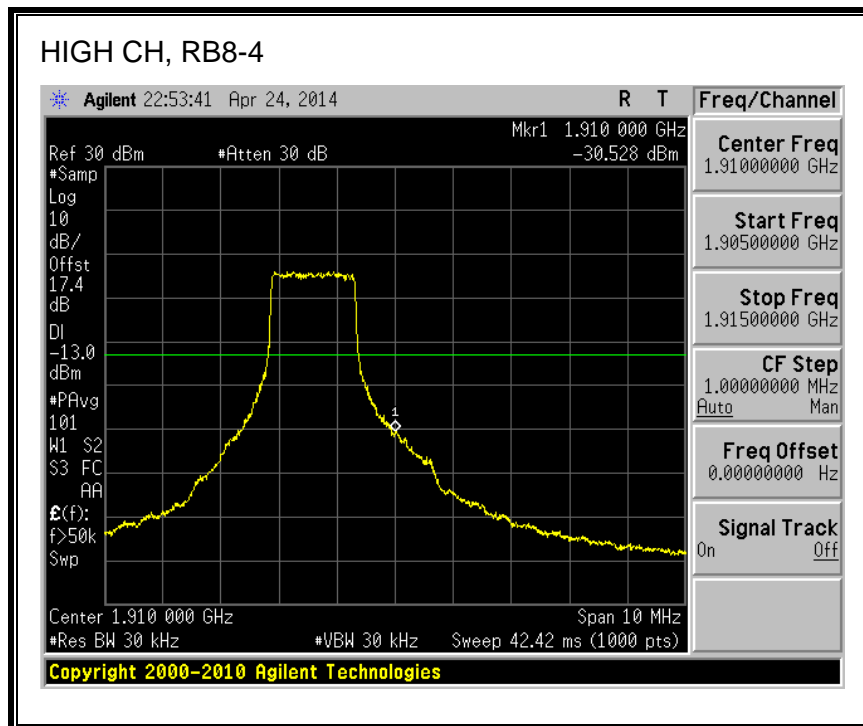
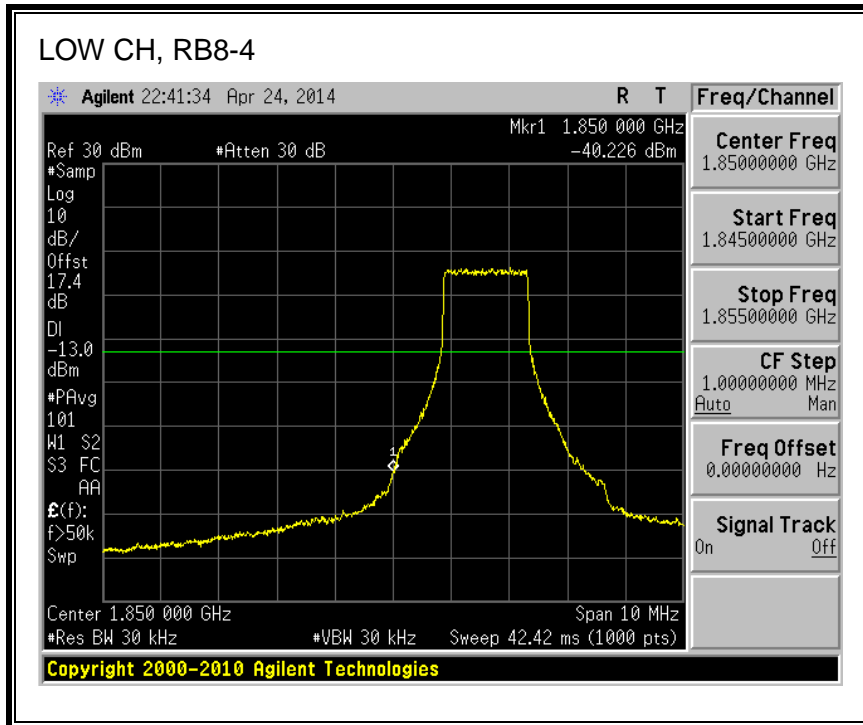


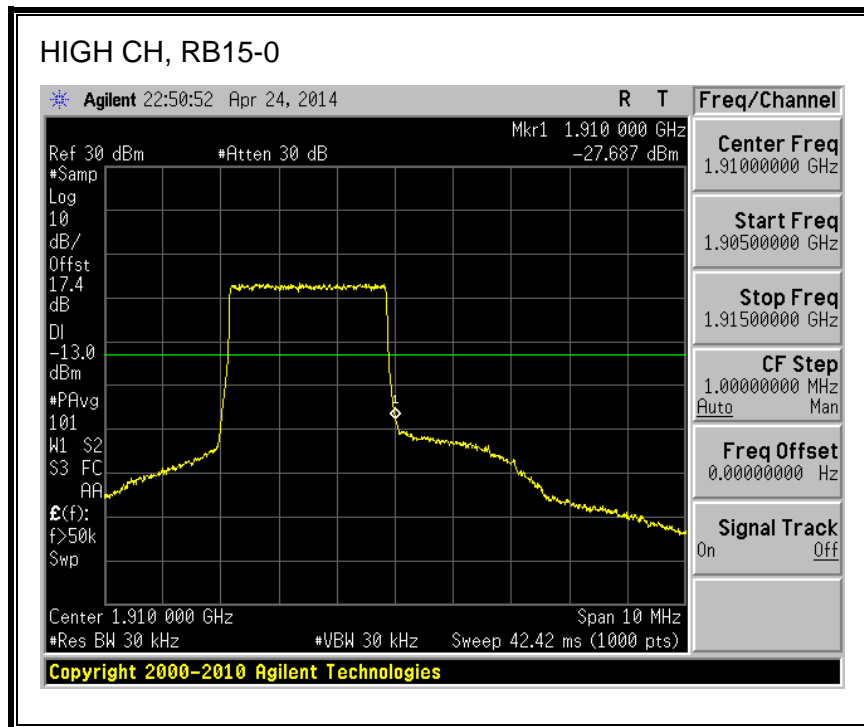
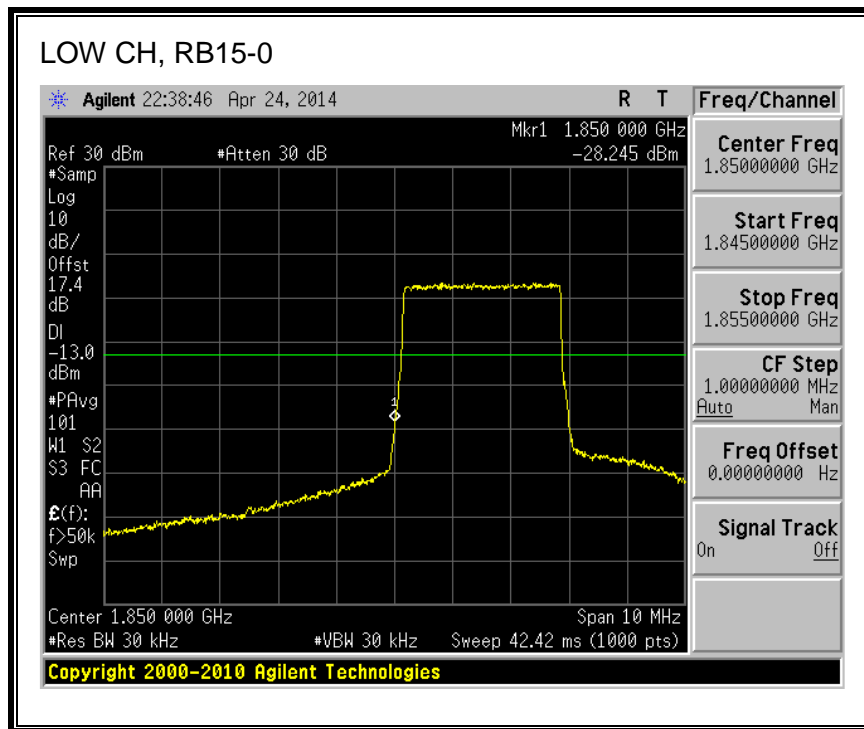


16QAM, (3.0 MHz BAND WIDTH)

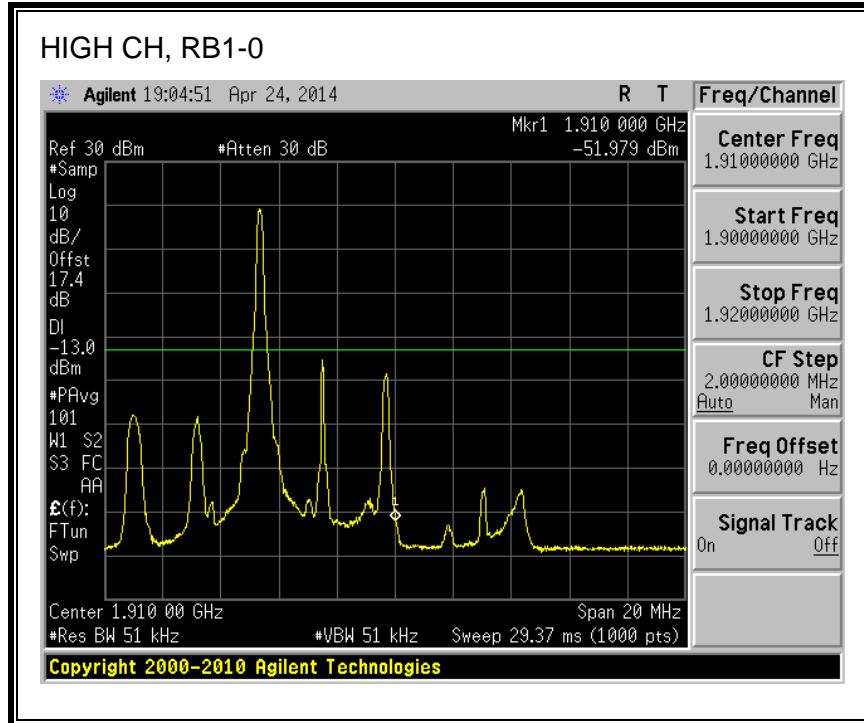
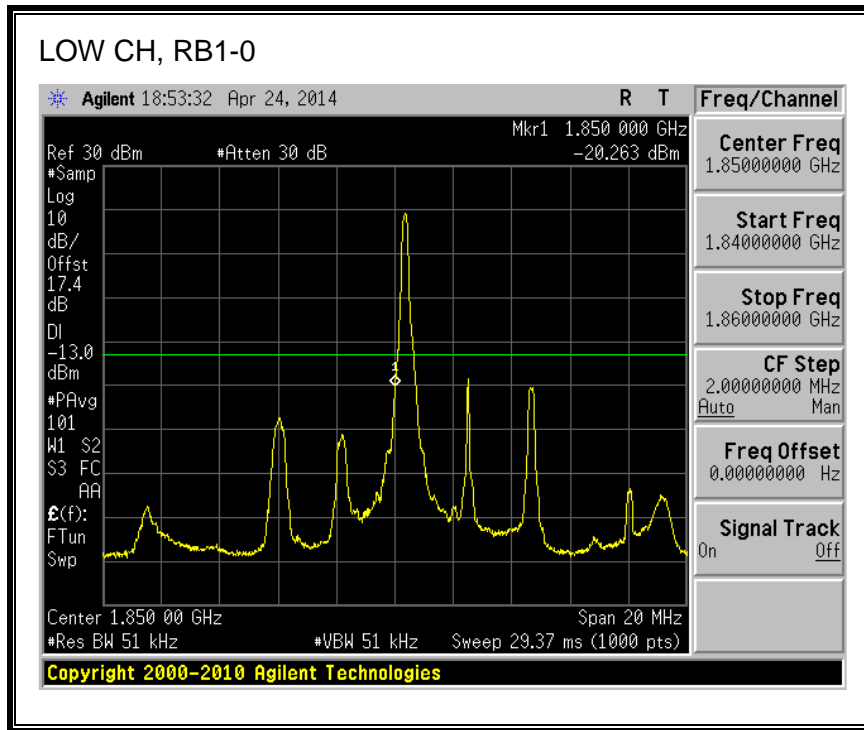


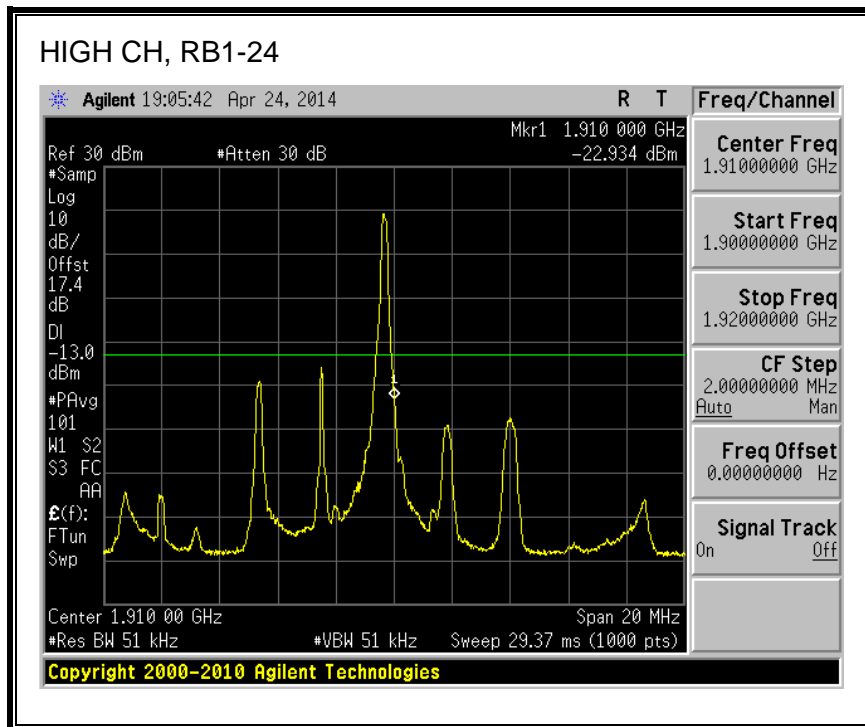
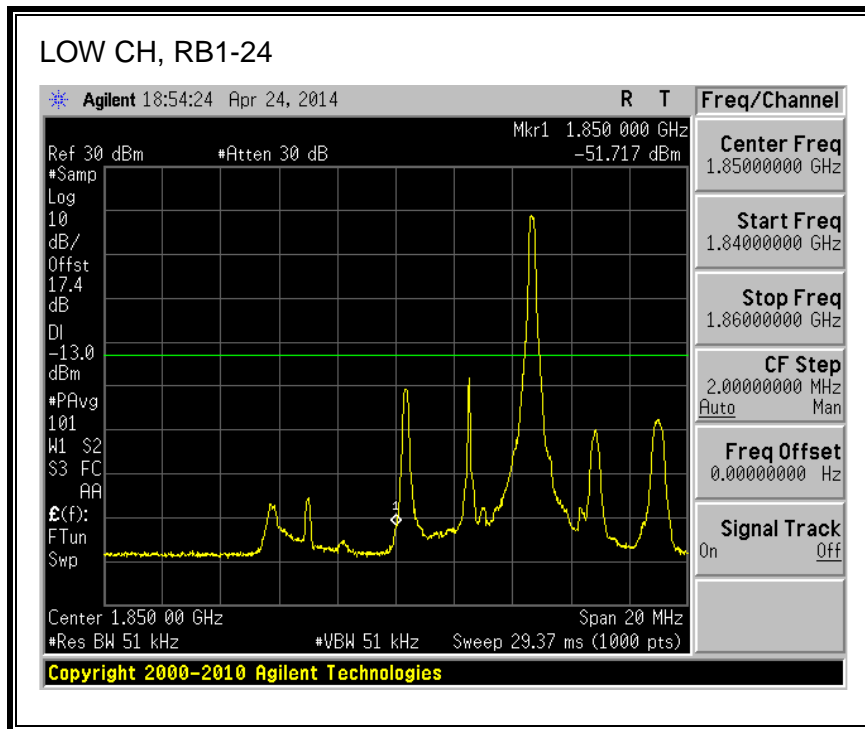


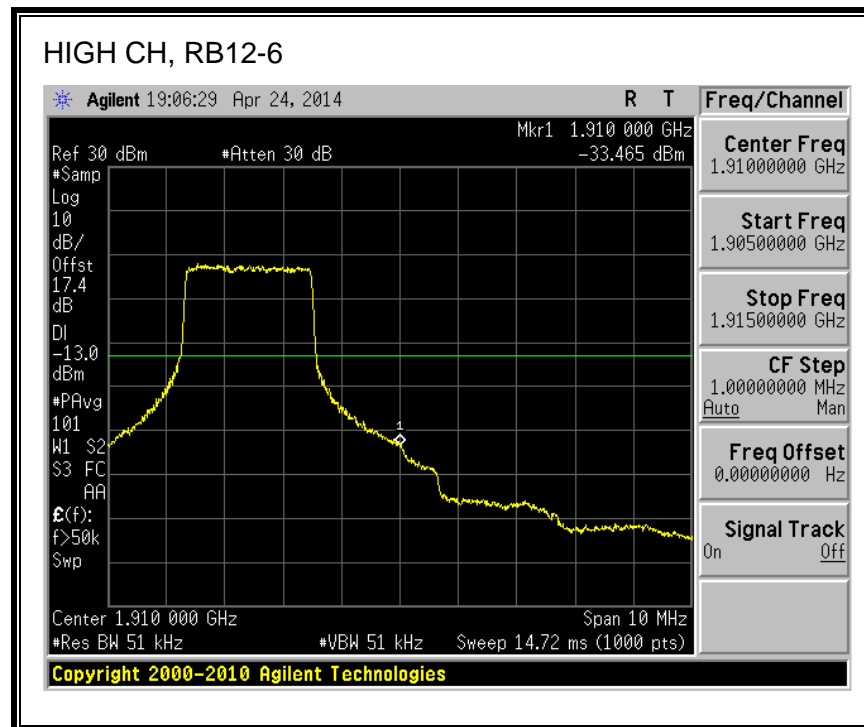
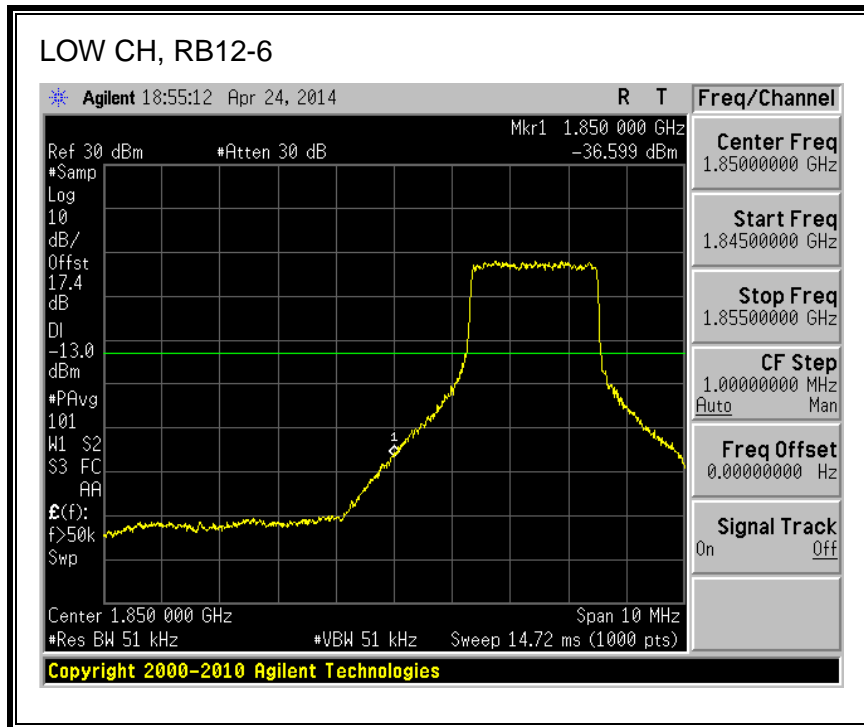


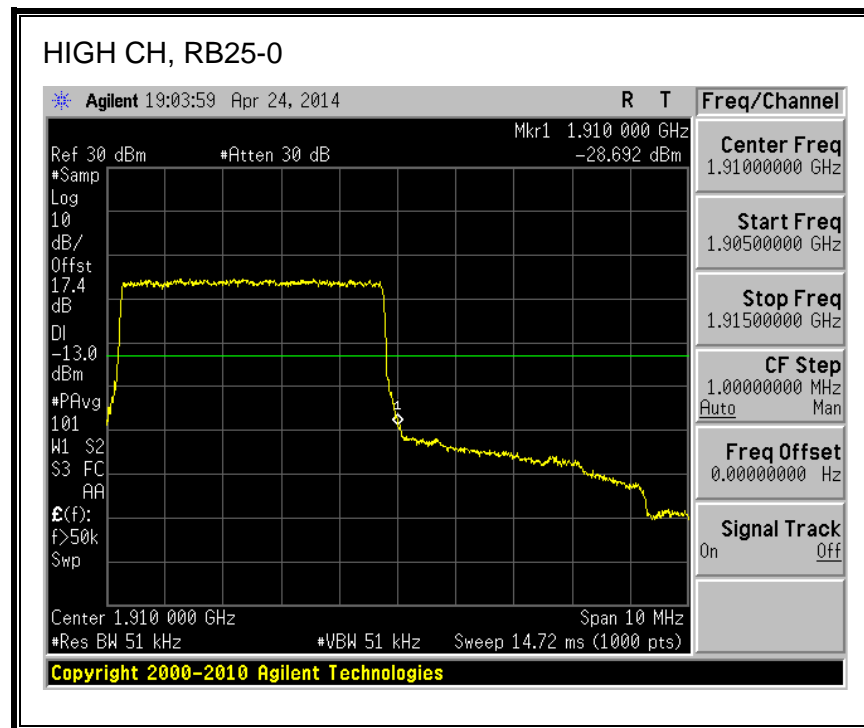
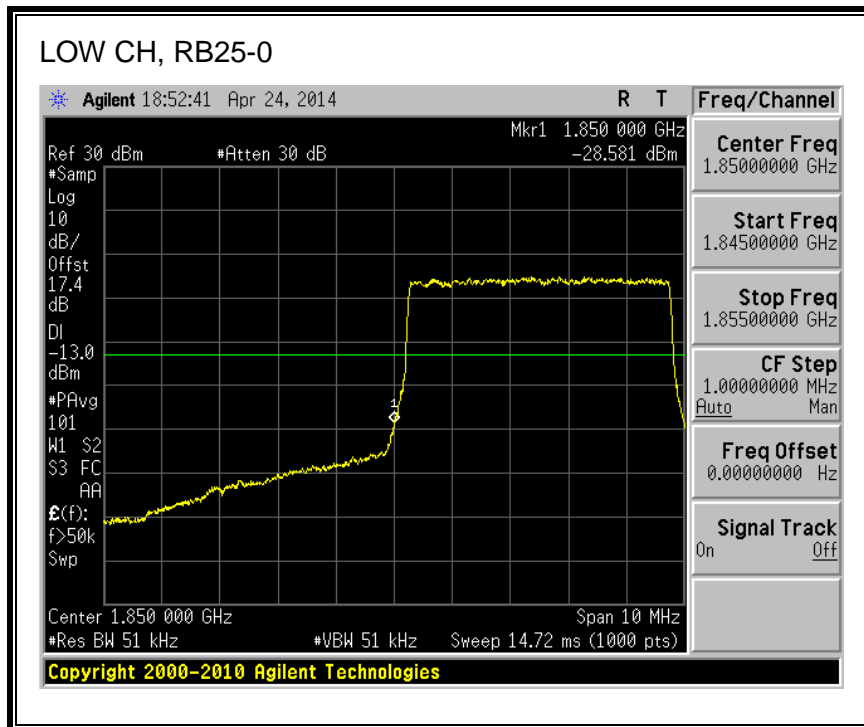


QPSK, (5.0 MHz BAND WIDTH)

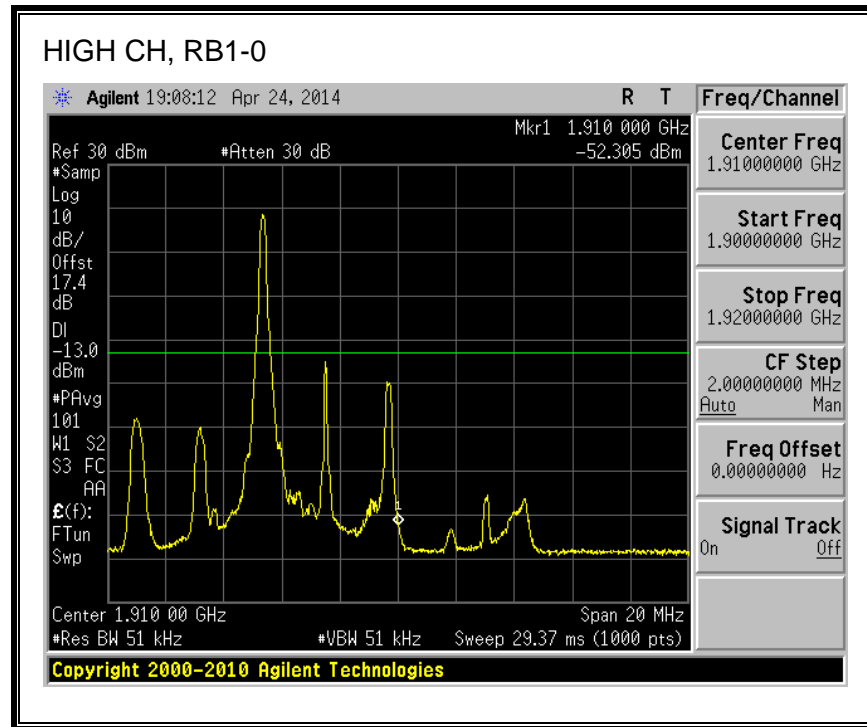
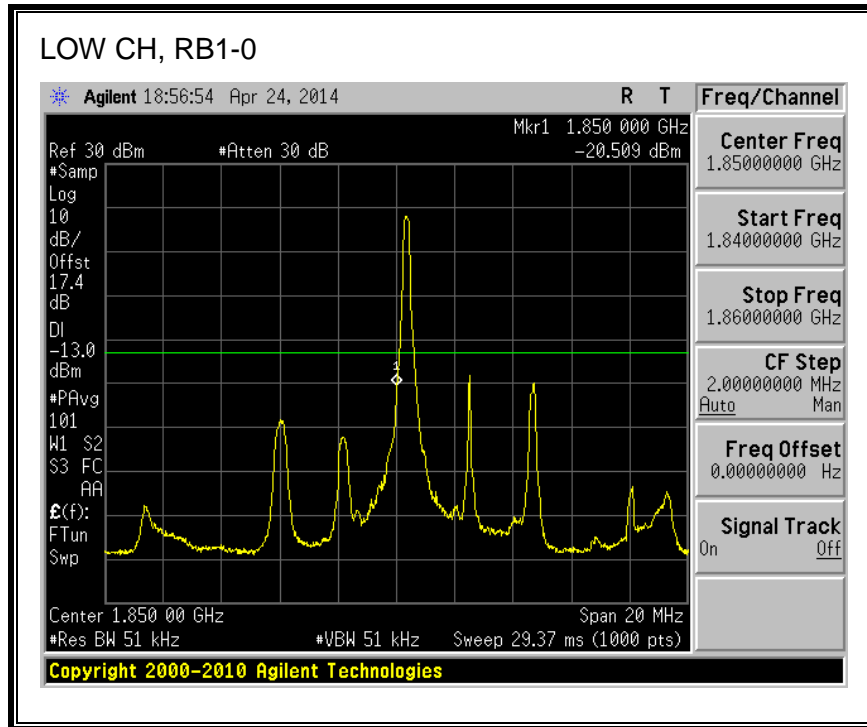


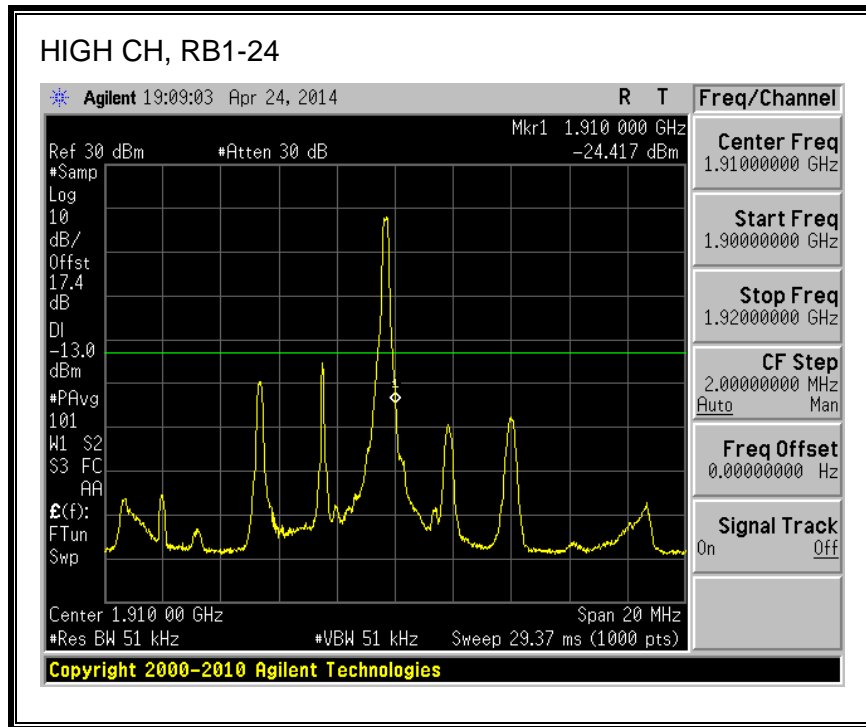
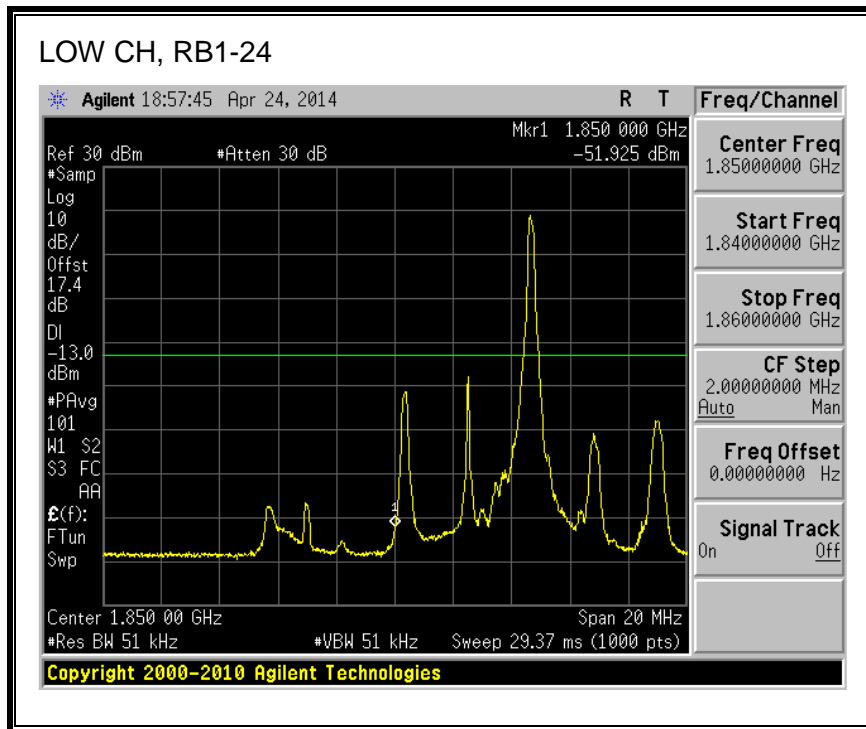


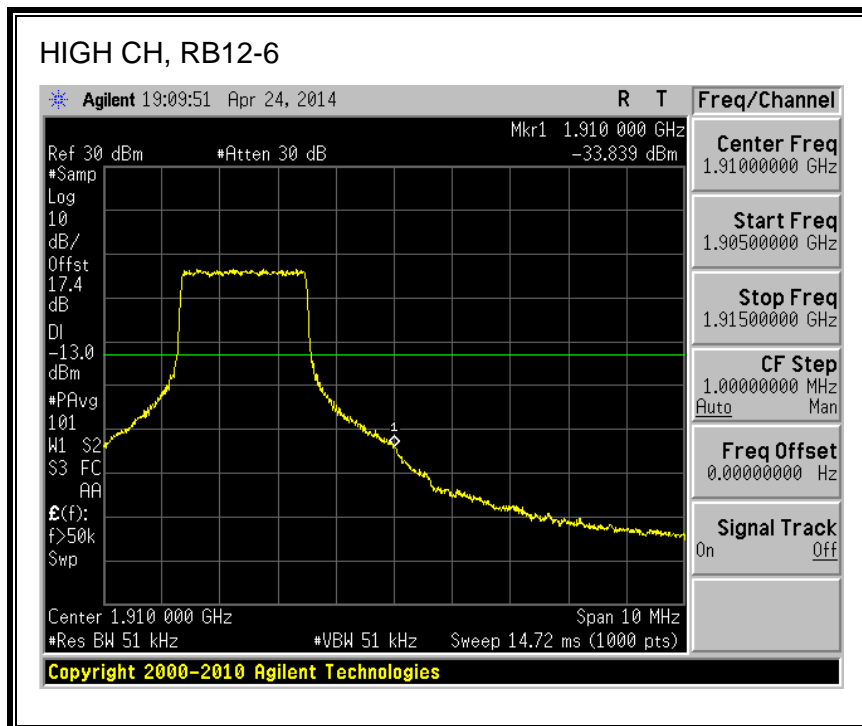
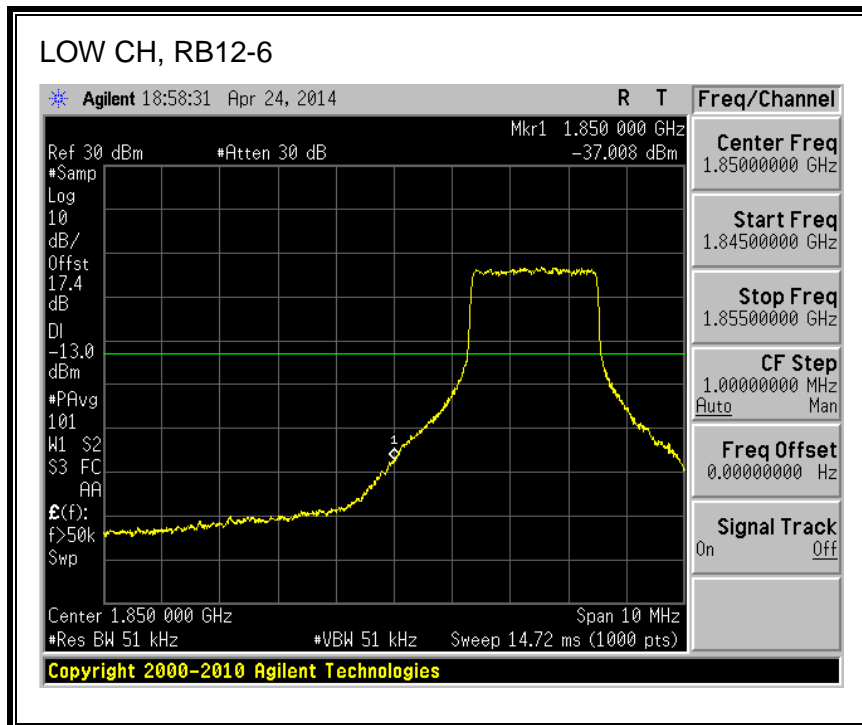


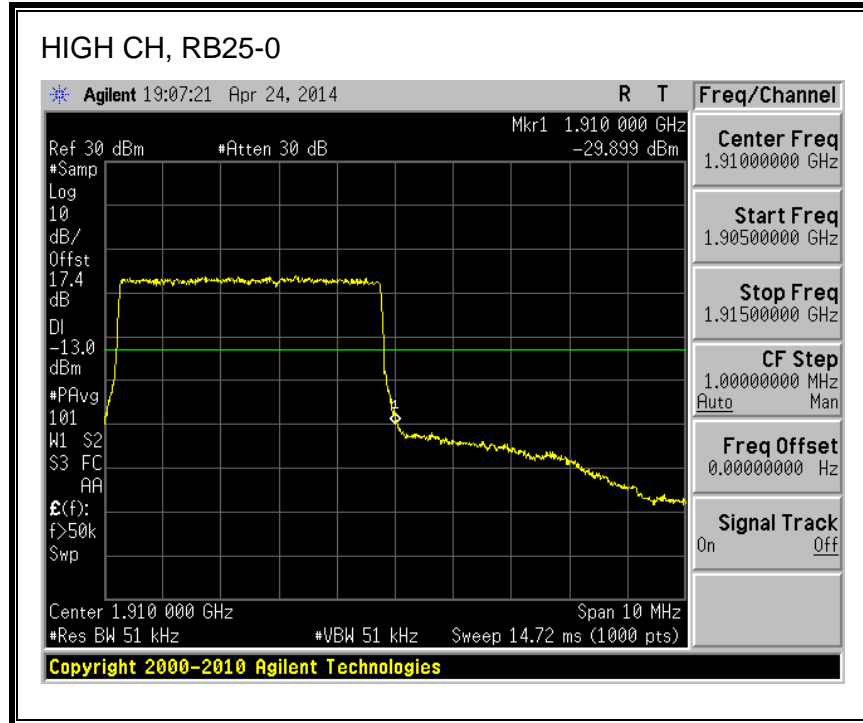
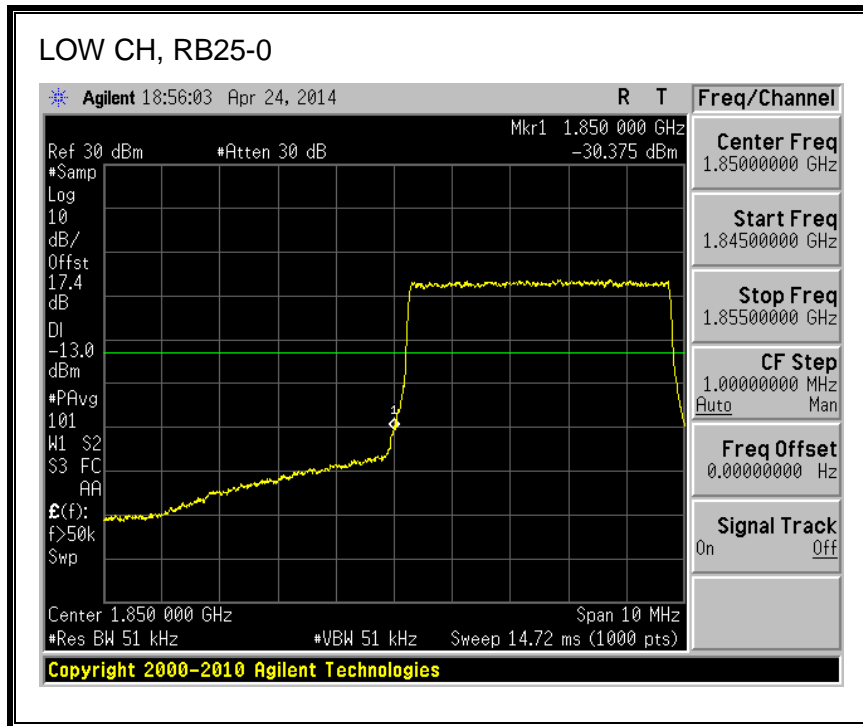


16QAM, (5.0 MHz BAND WIDTH)

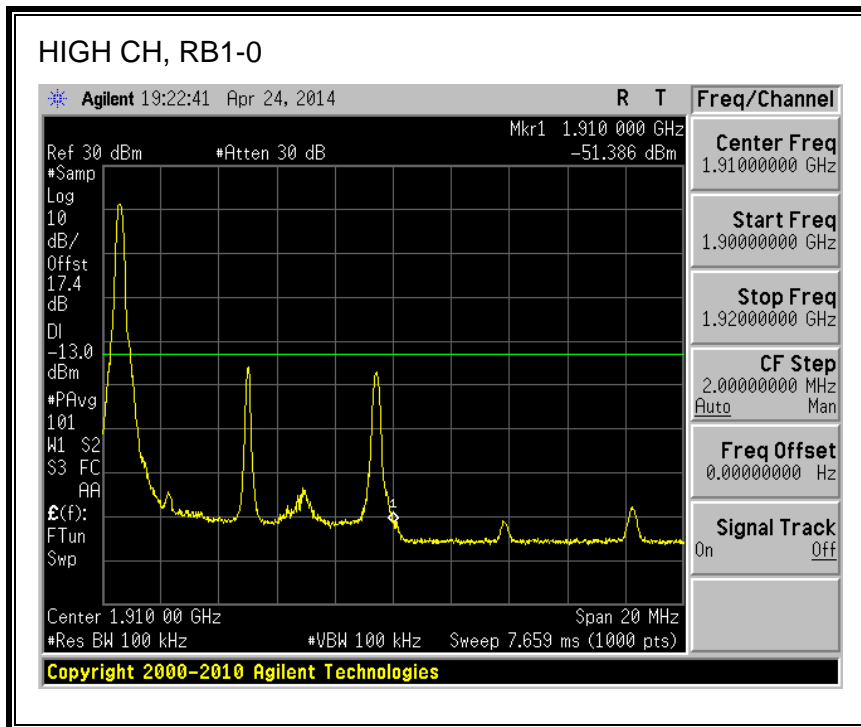
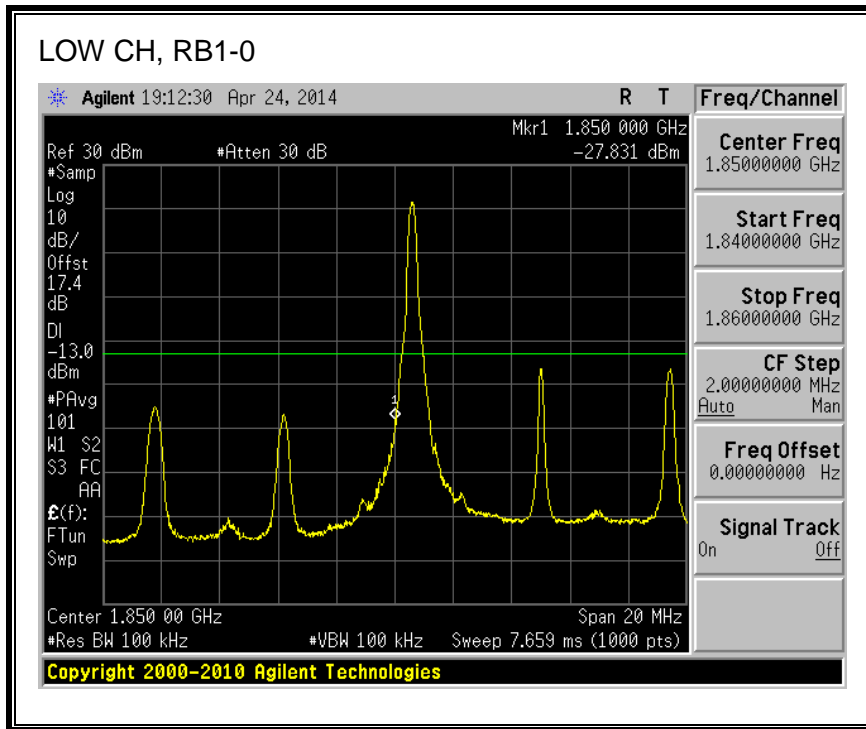


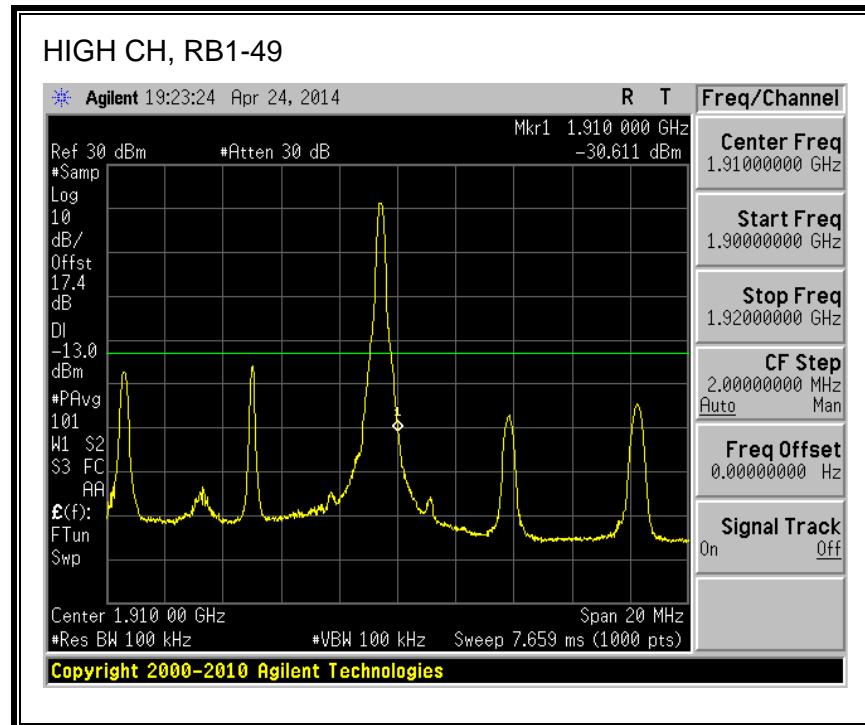
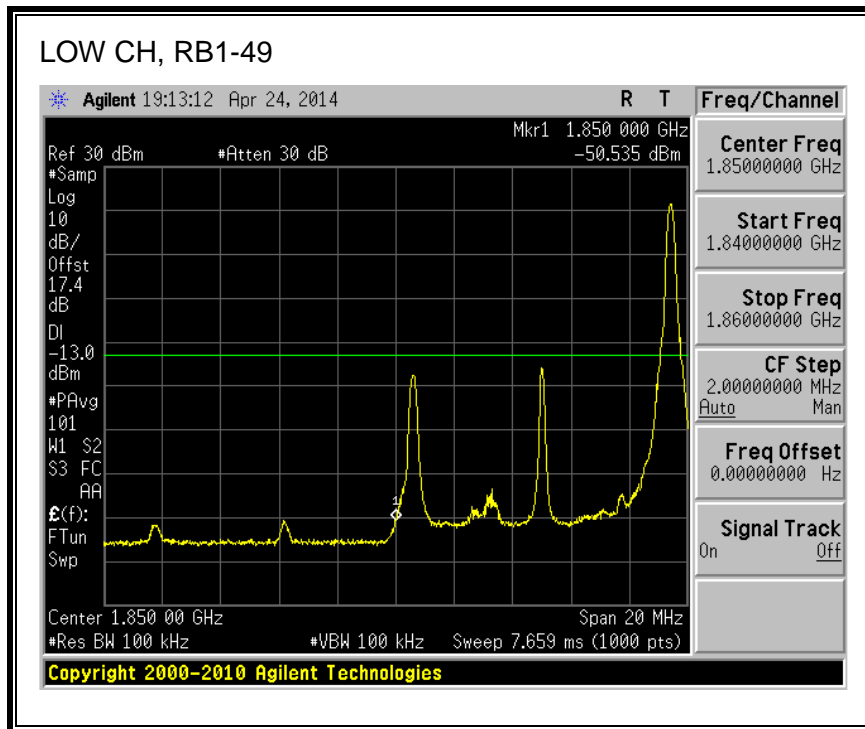


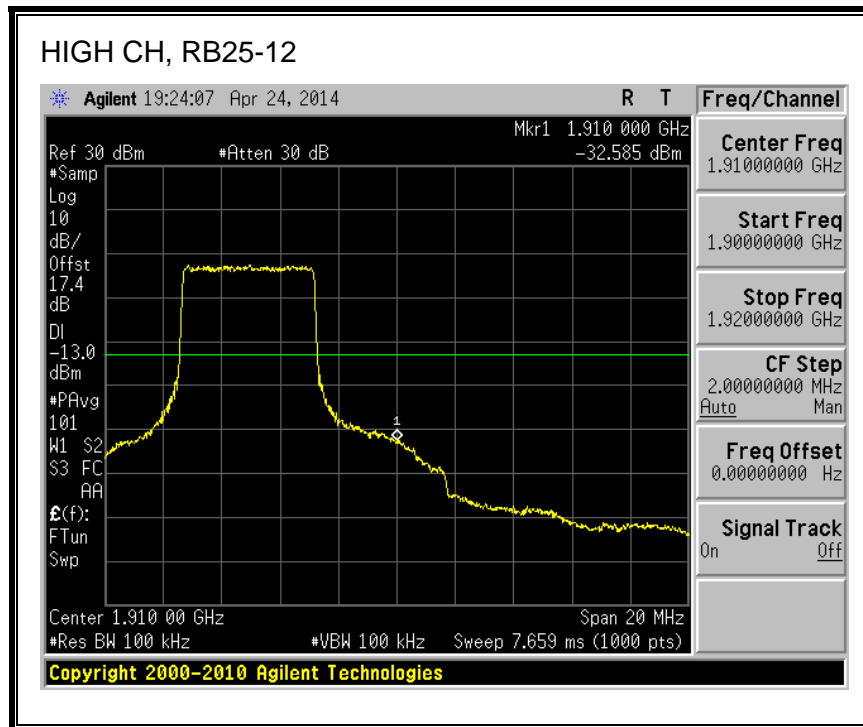
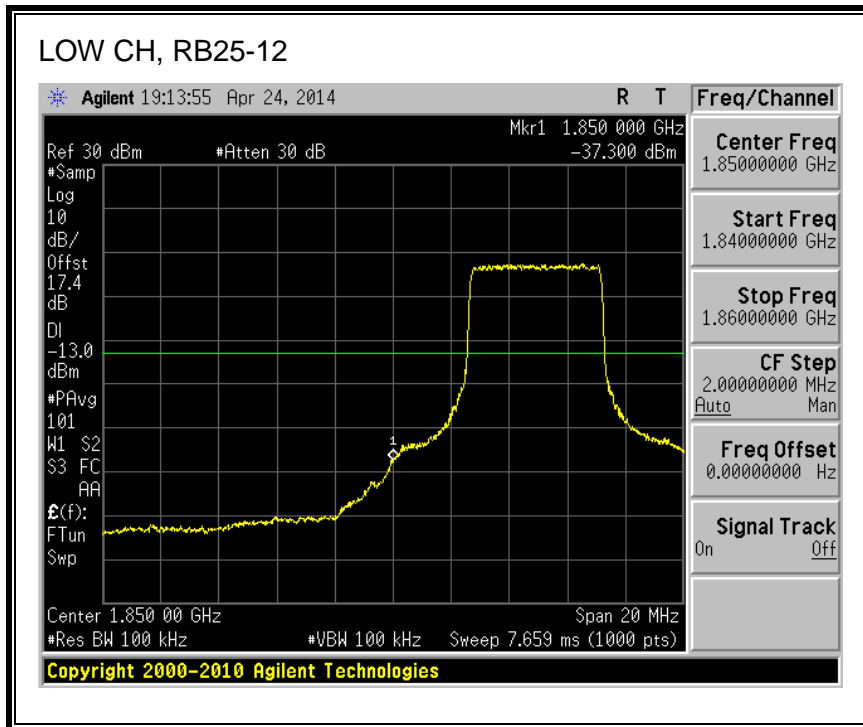


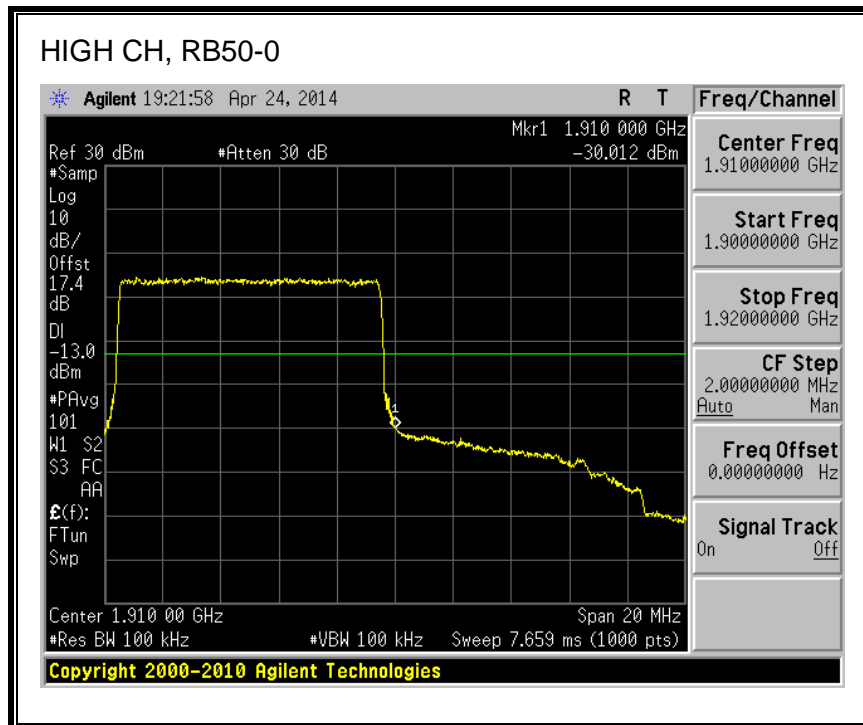
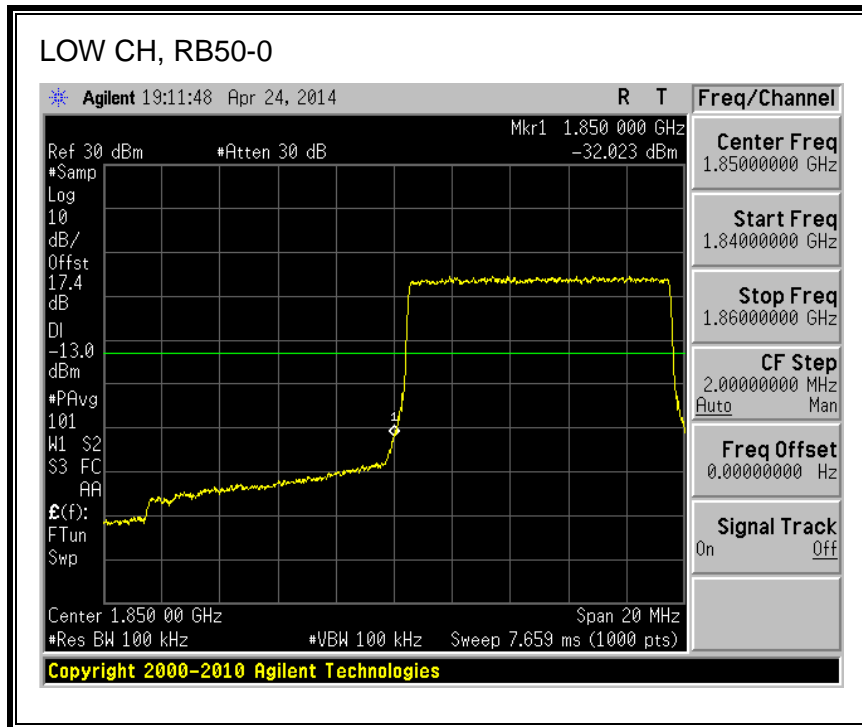


QPSK, (10.0 MHz BAND WIDTH)

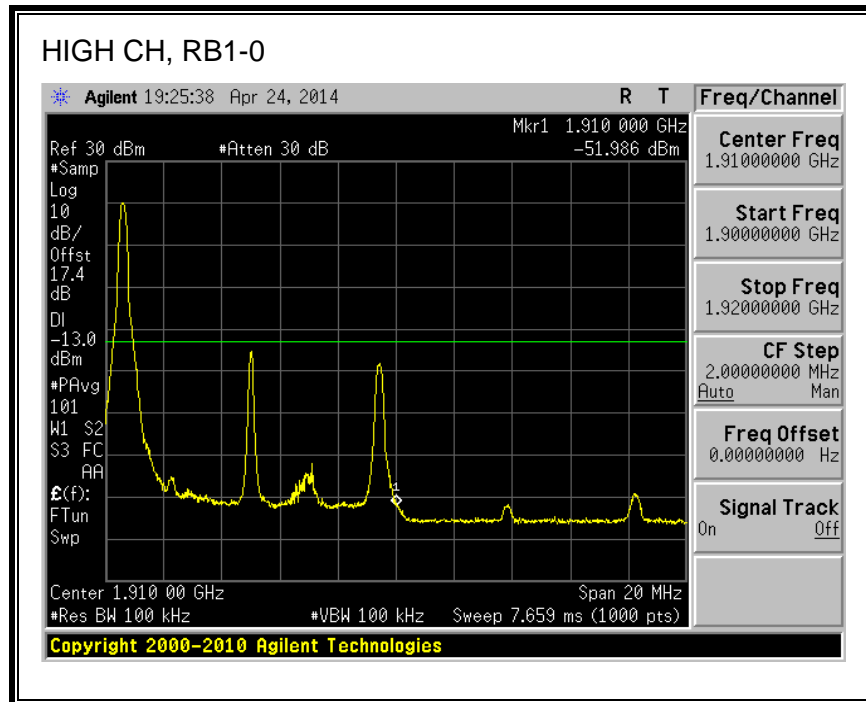
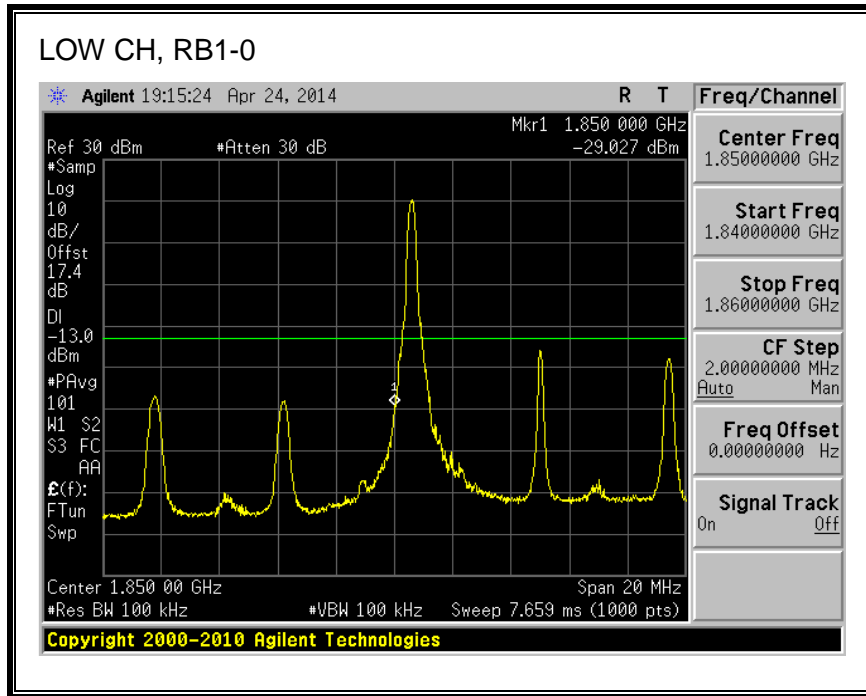


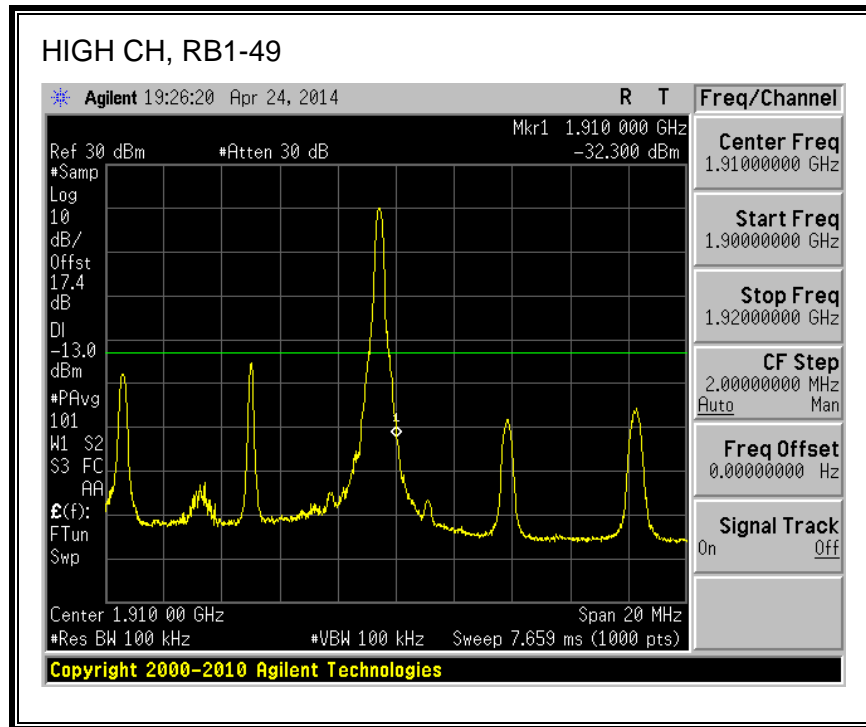
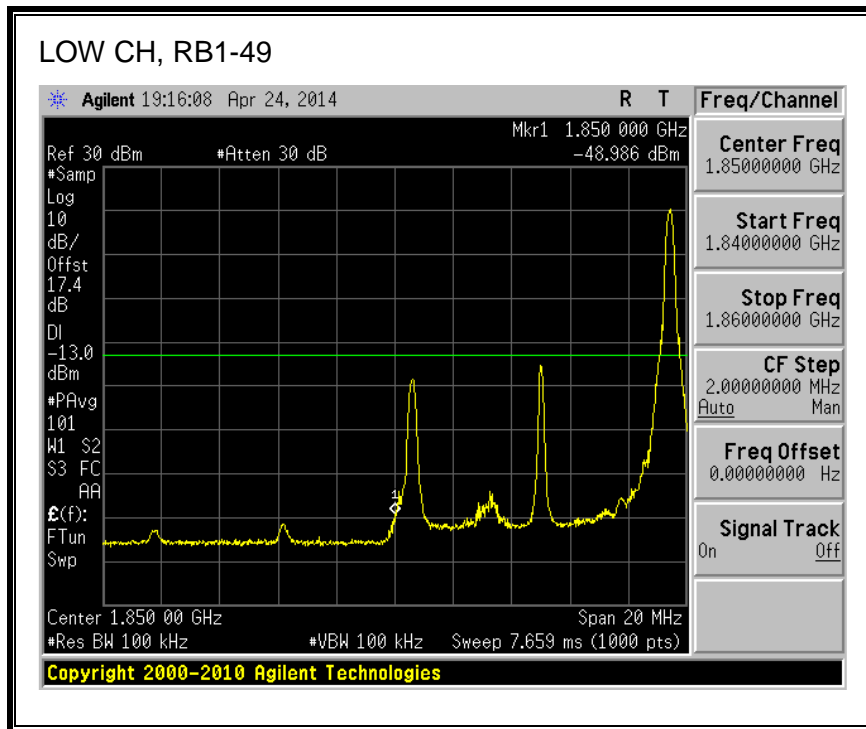


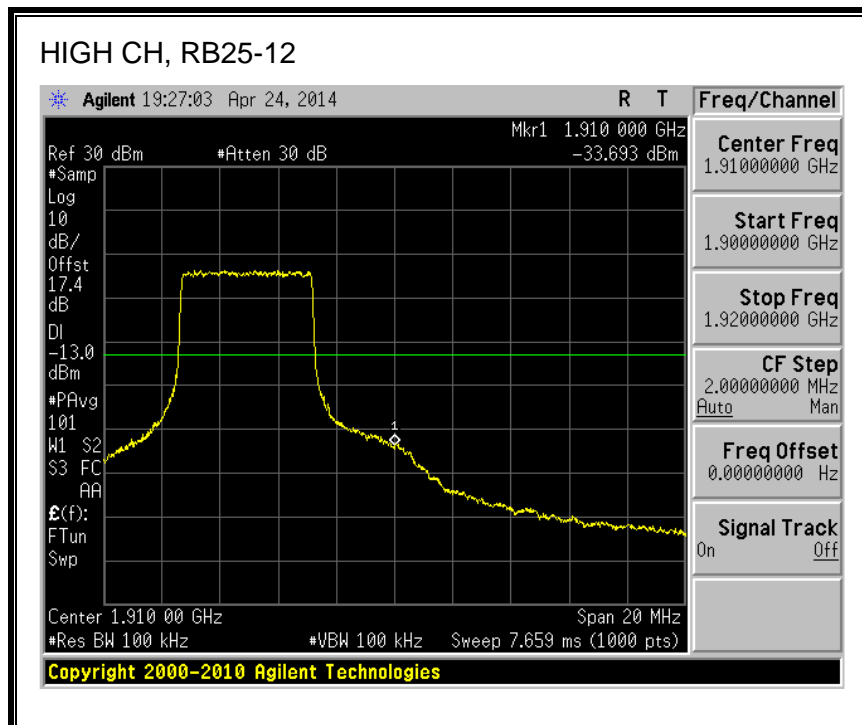
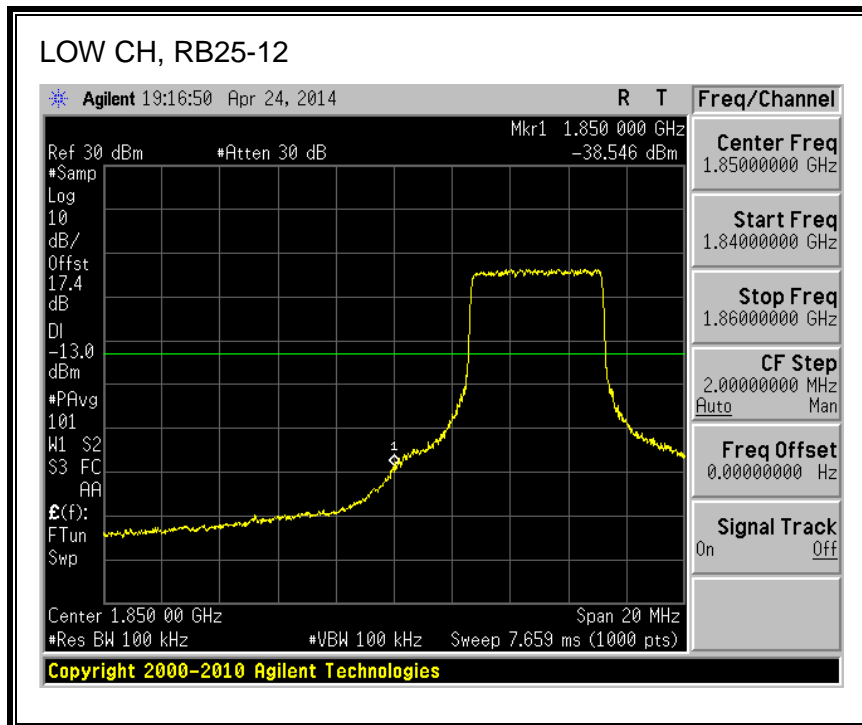


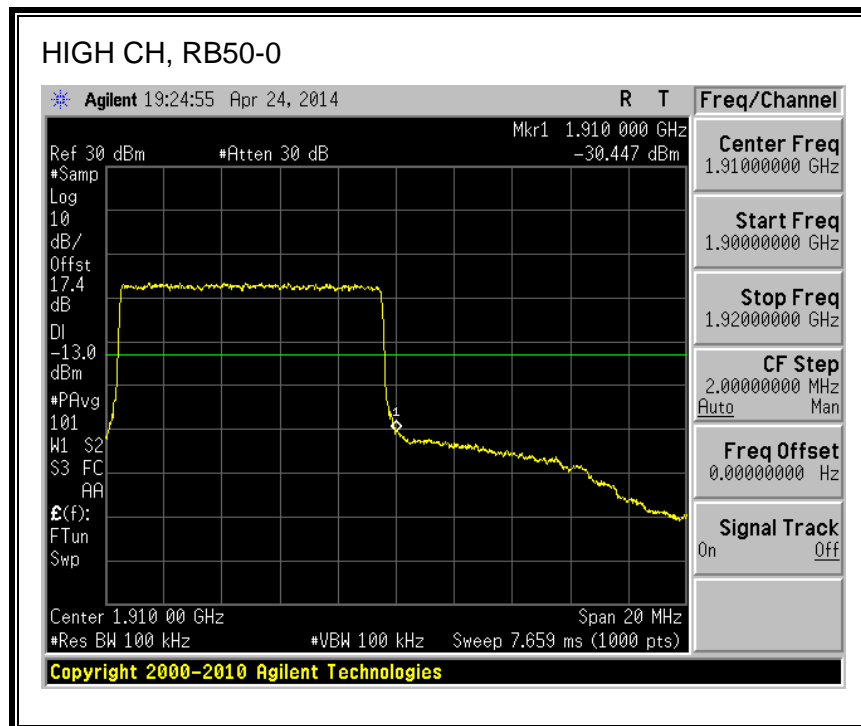
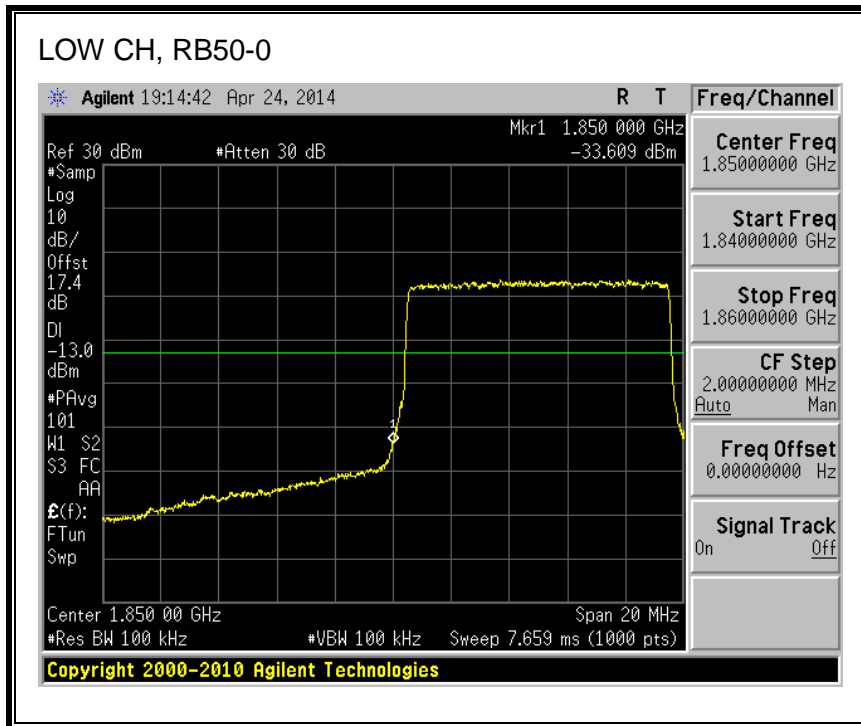


16QAM, (10.0 MHz BAND WIDTH)

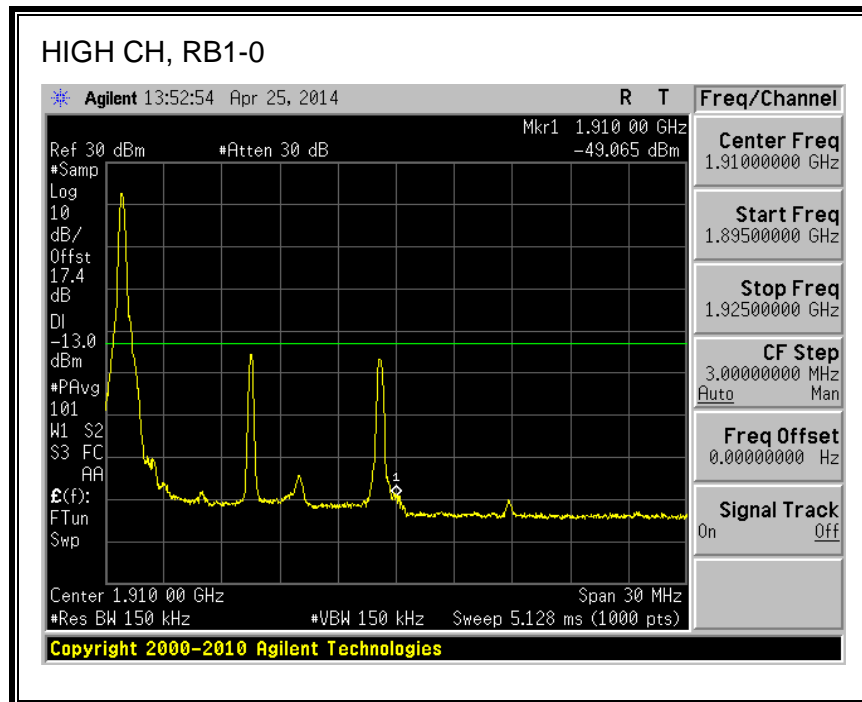
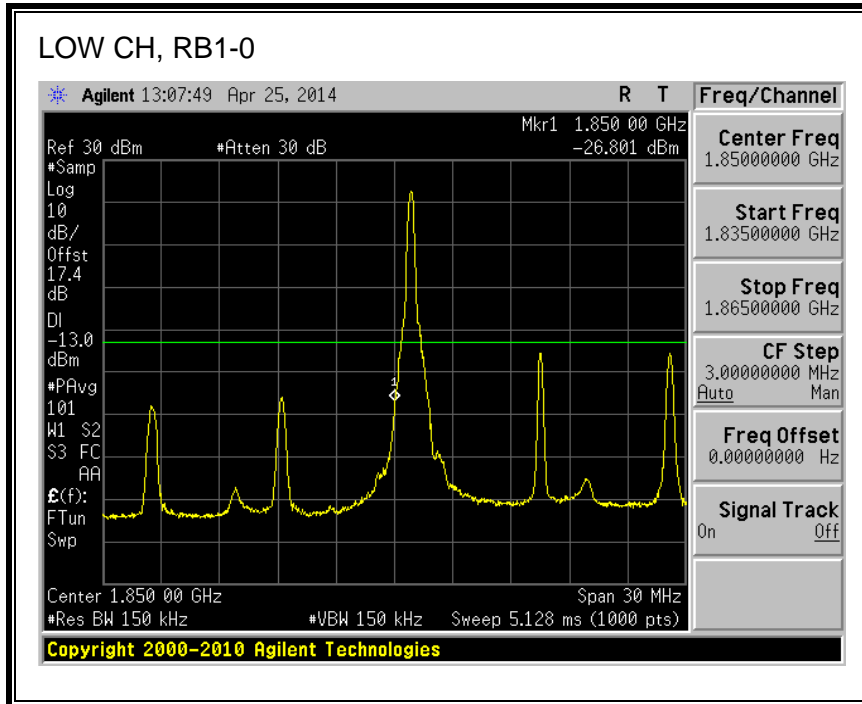


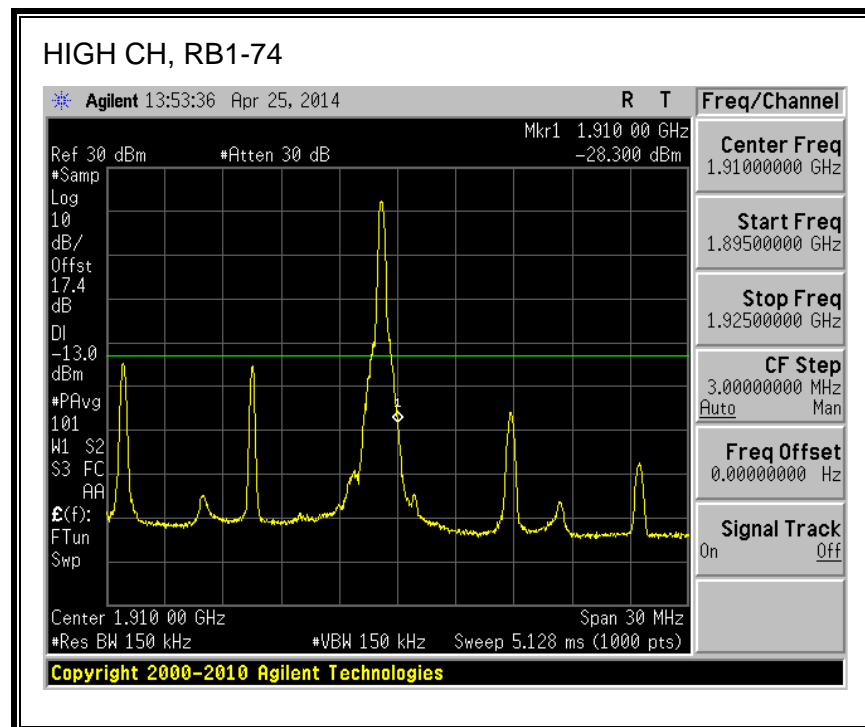
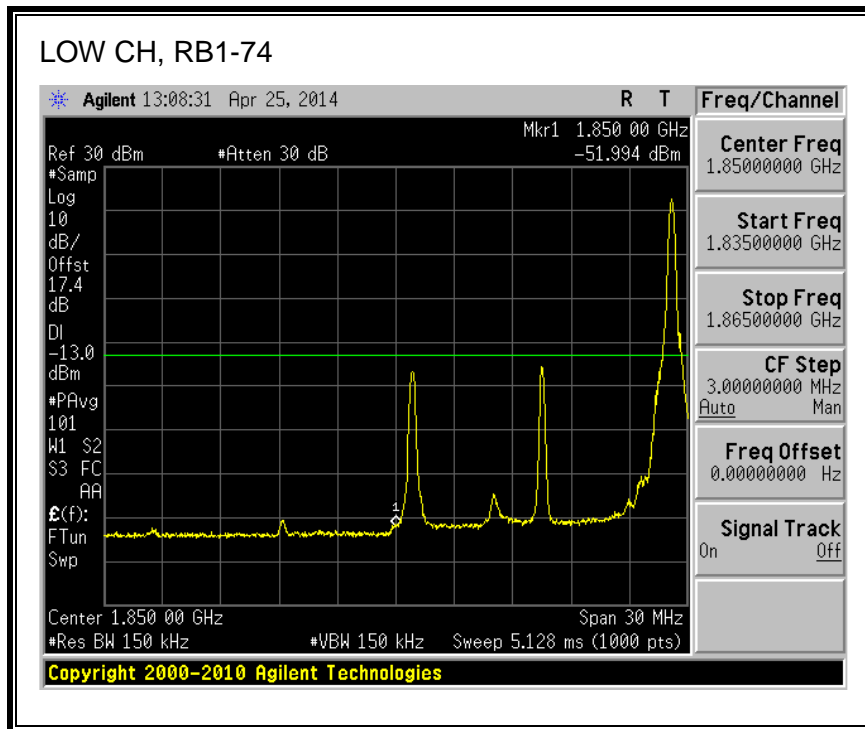


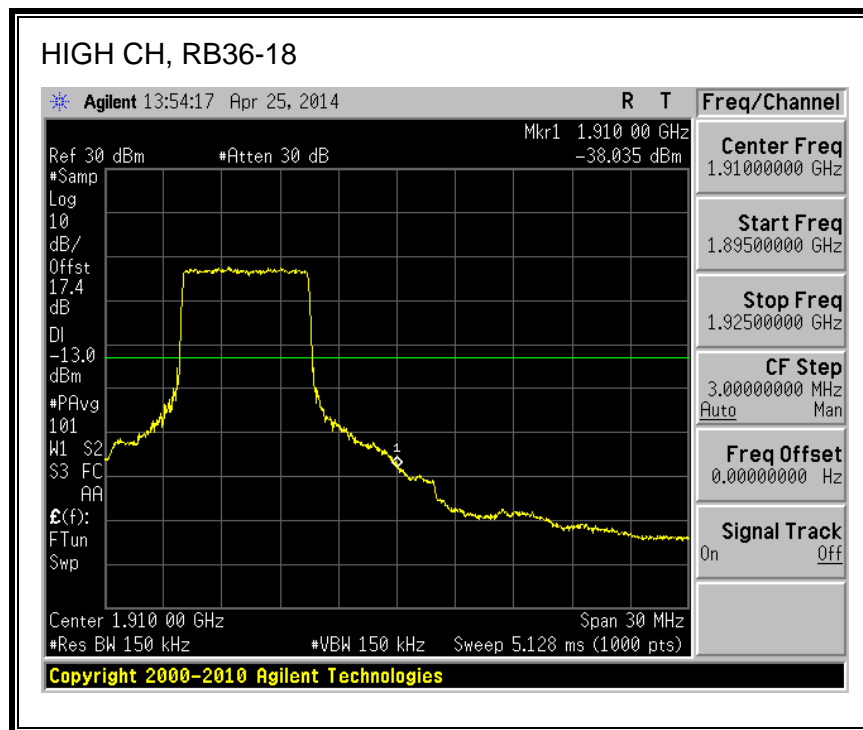
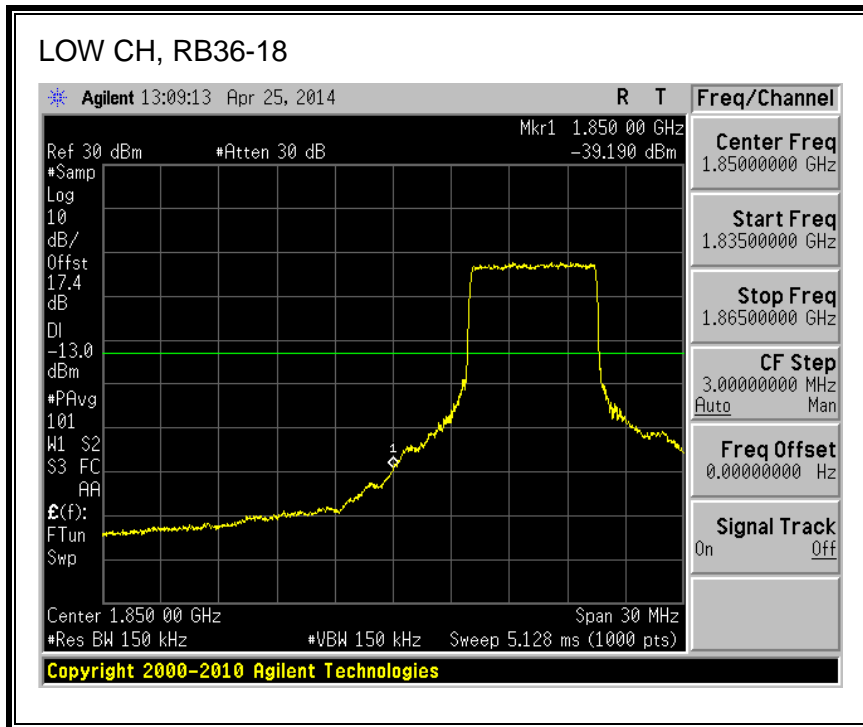


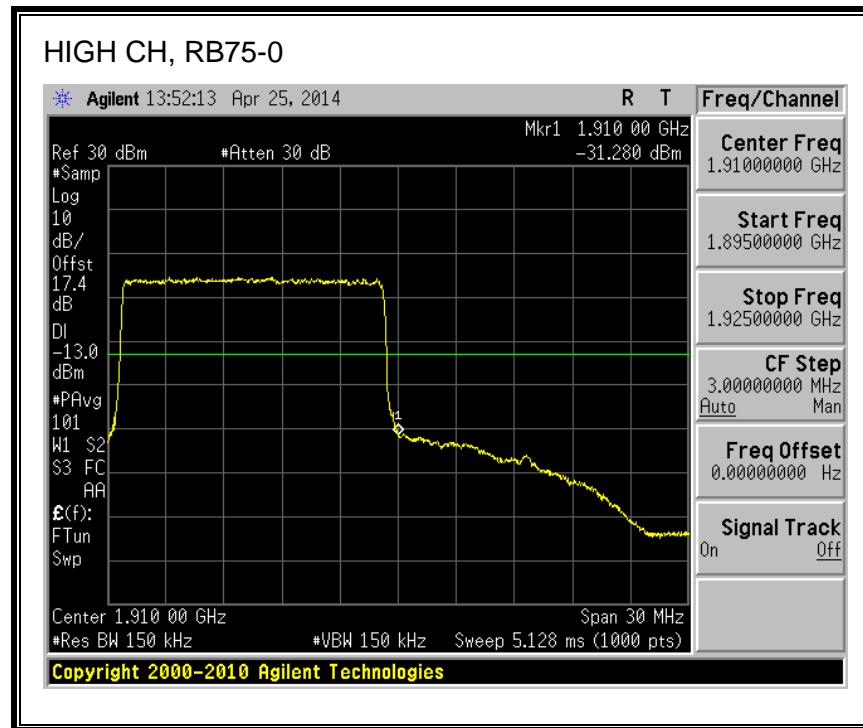
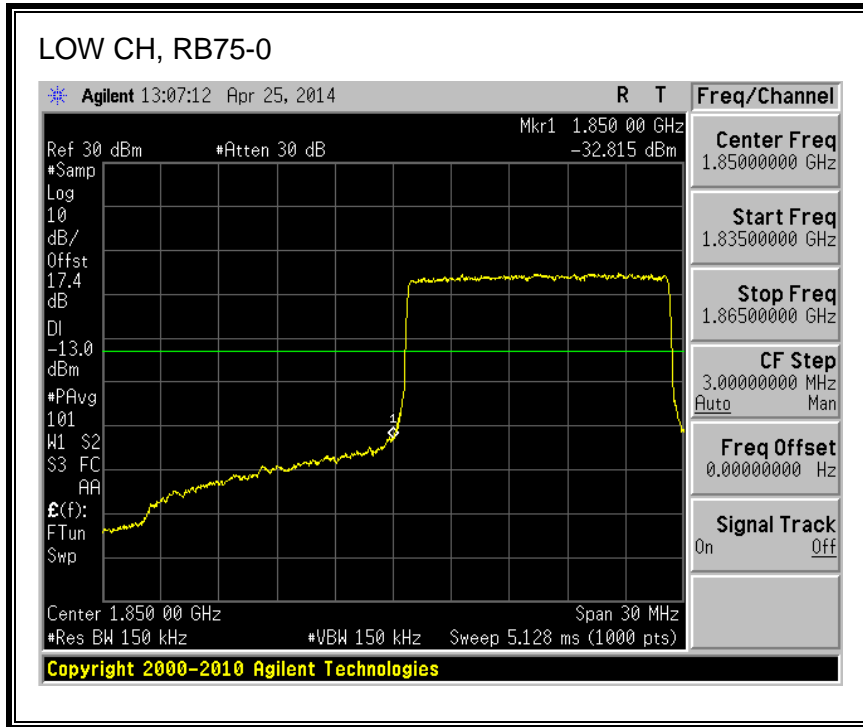


QPSK, (15.0 MHz BAND WIDTH)

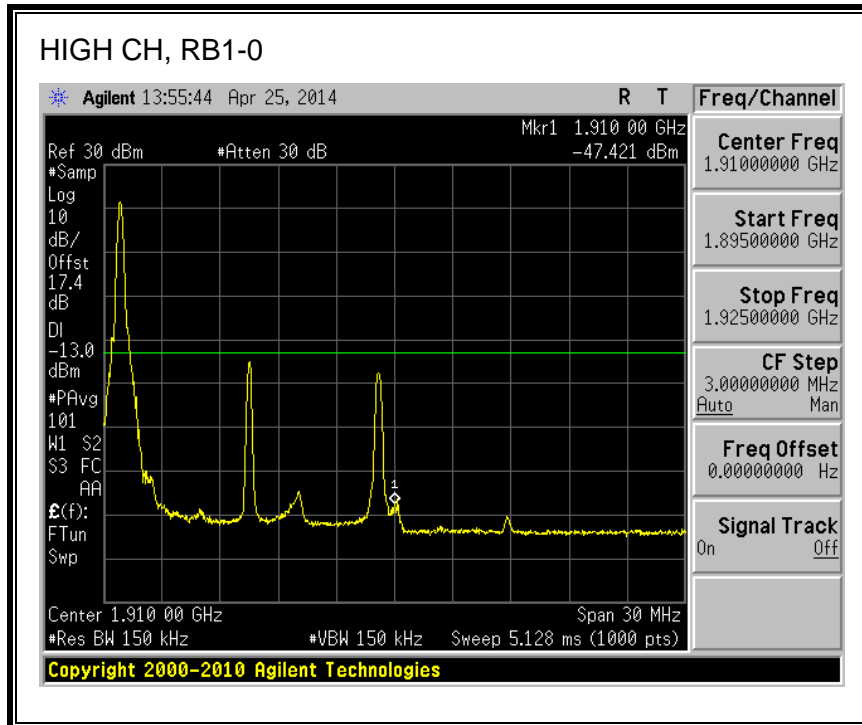
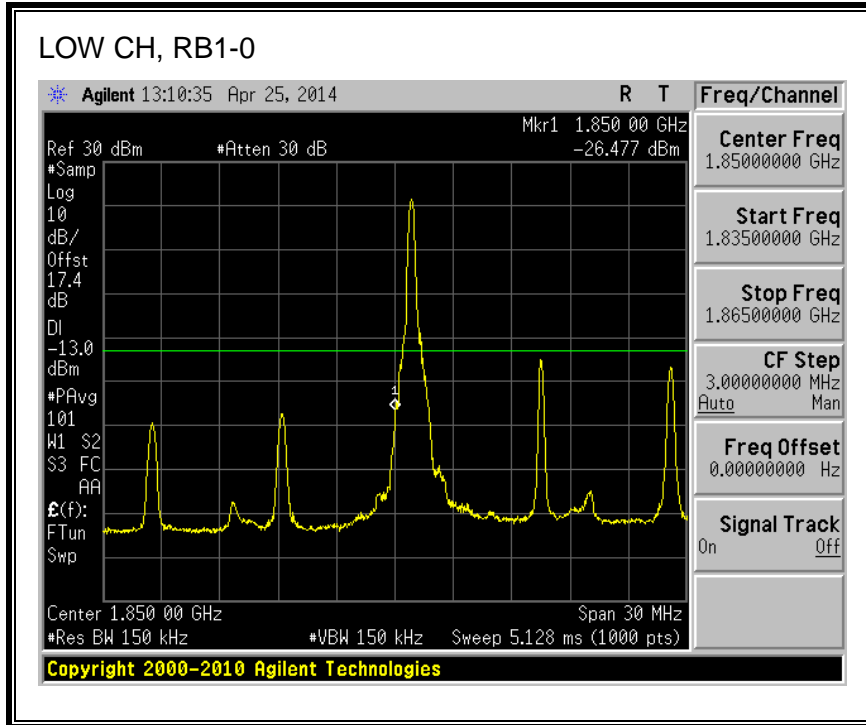


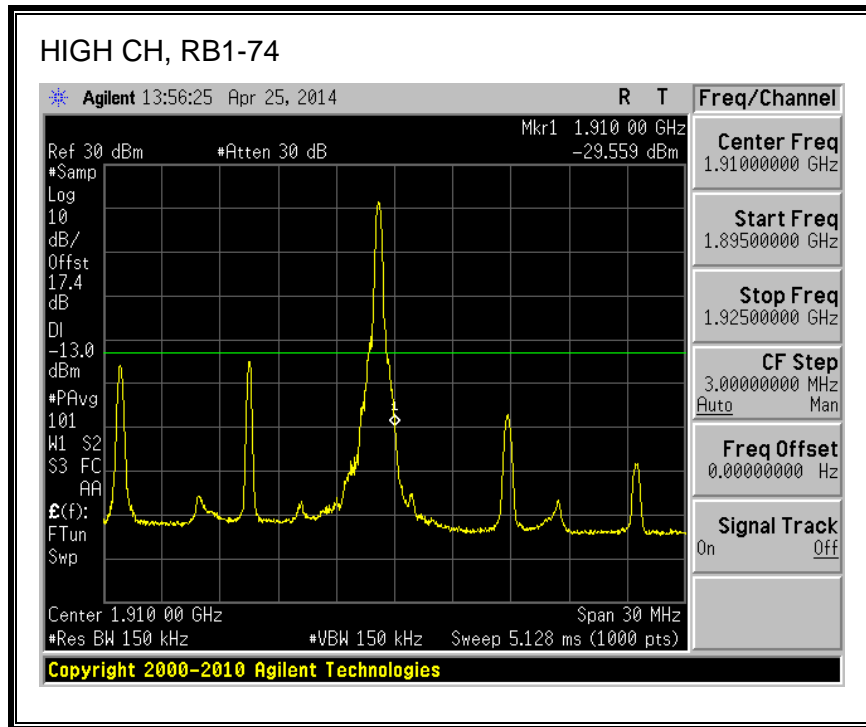
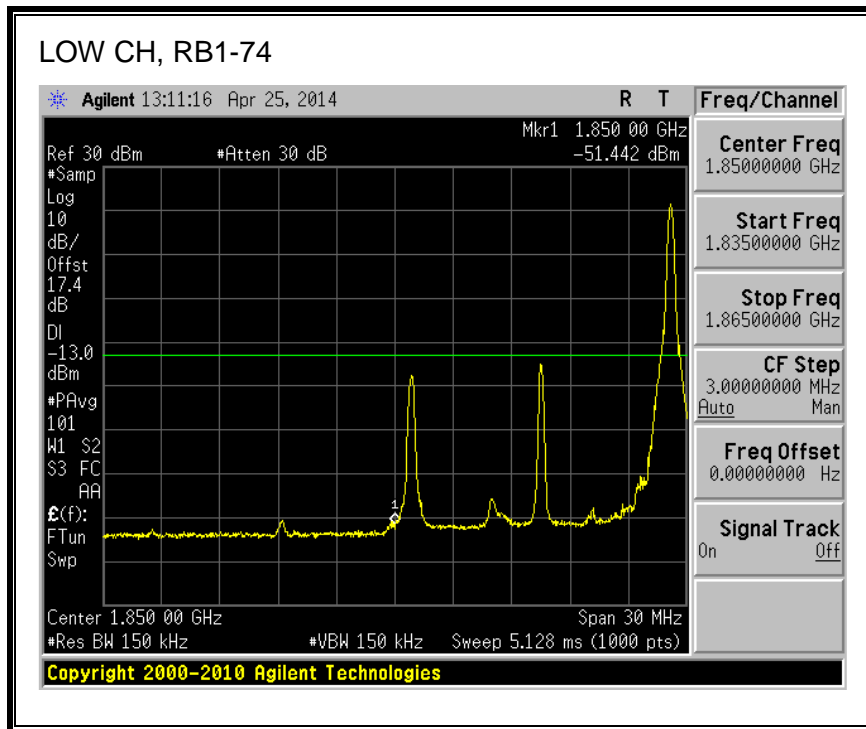


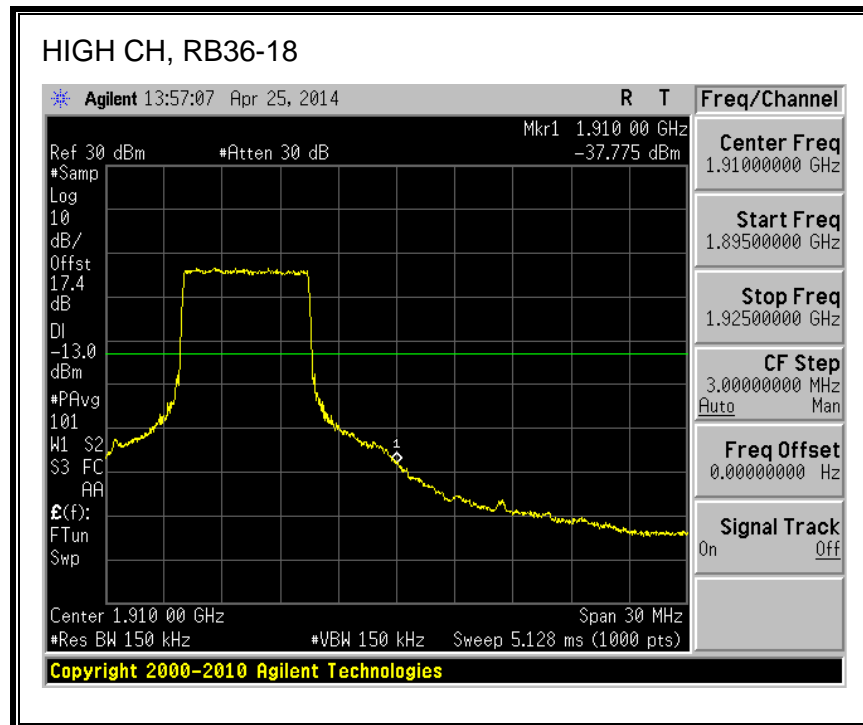
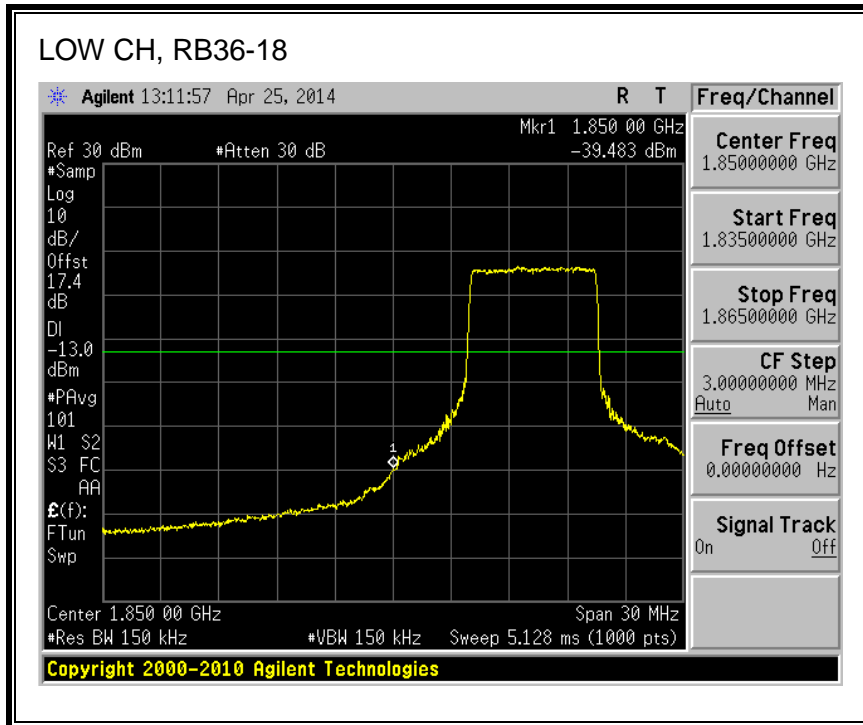


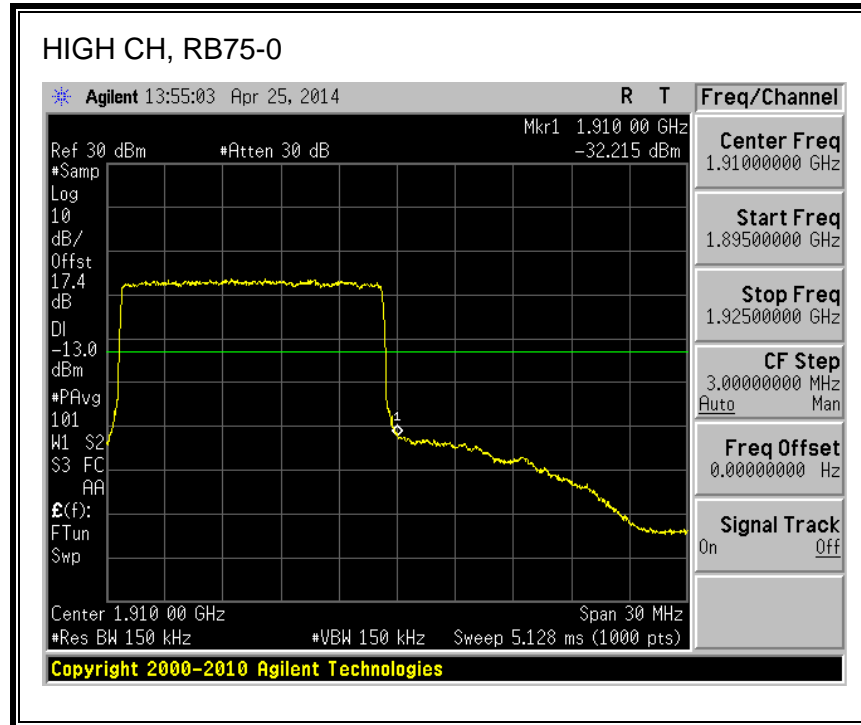
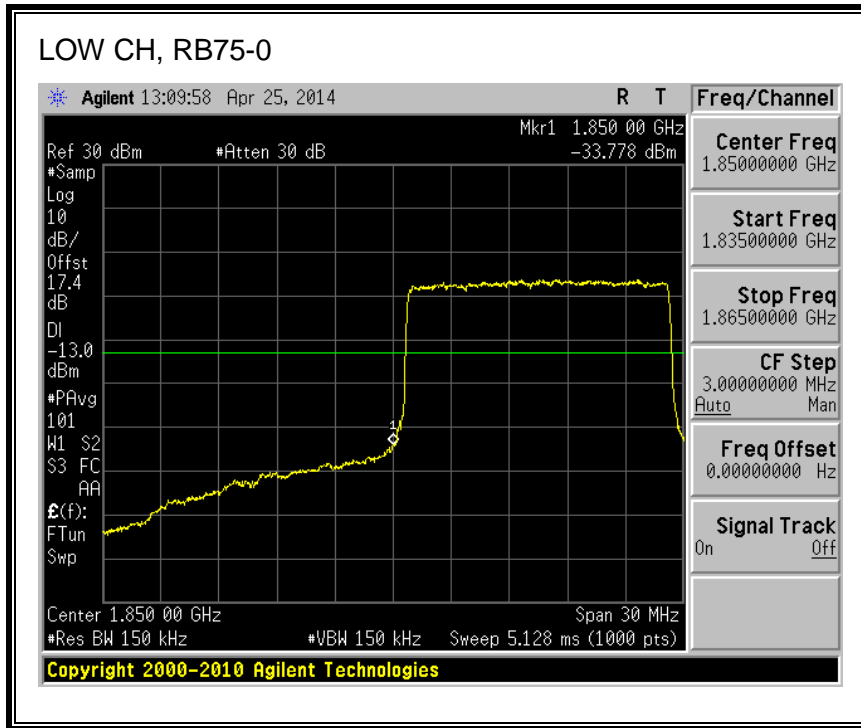


16QAM, (15.0 MHz BAND WIDTH)

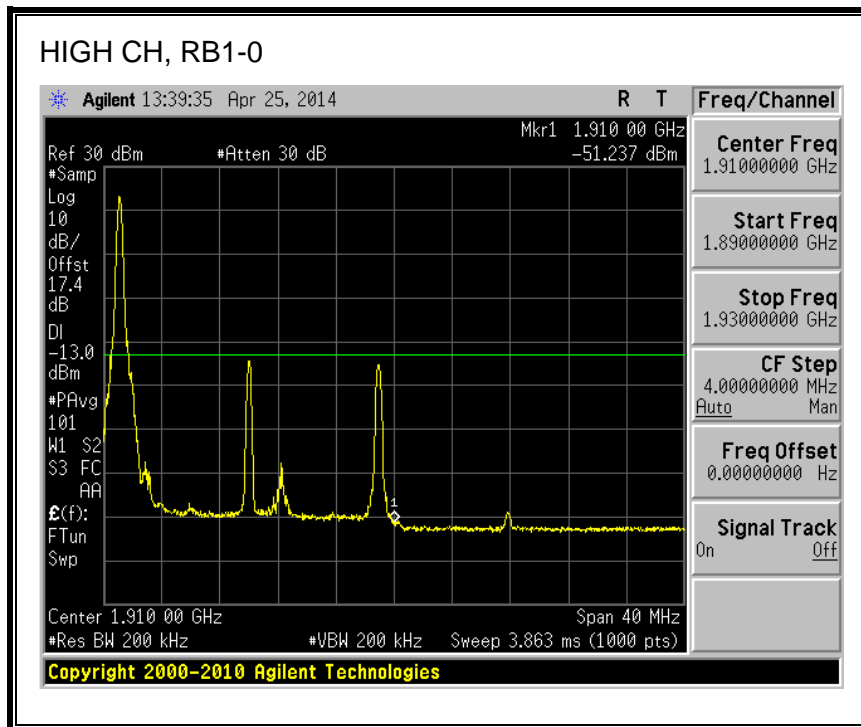
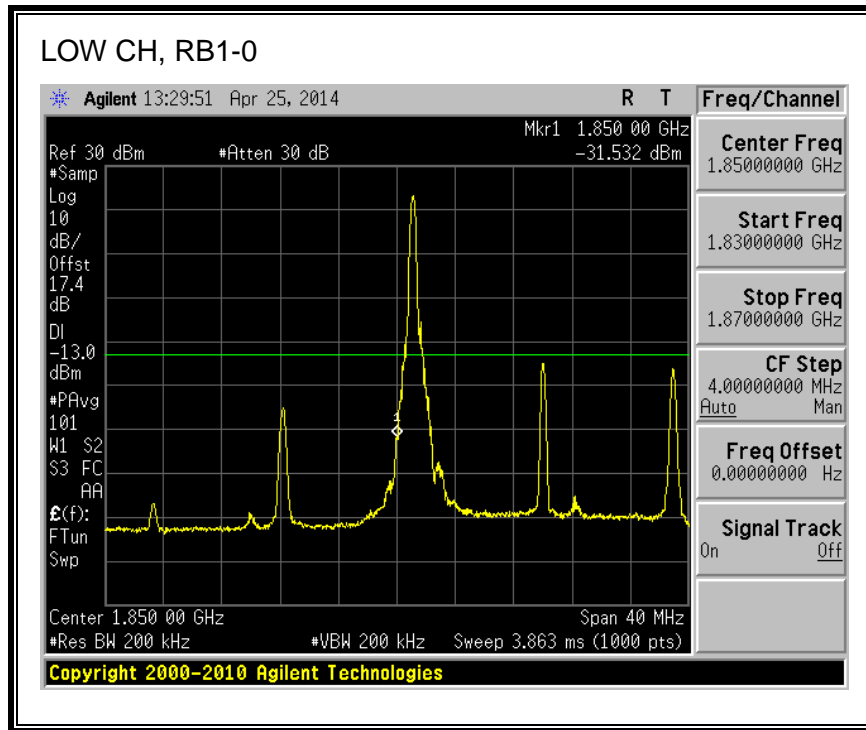


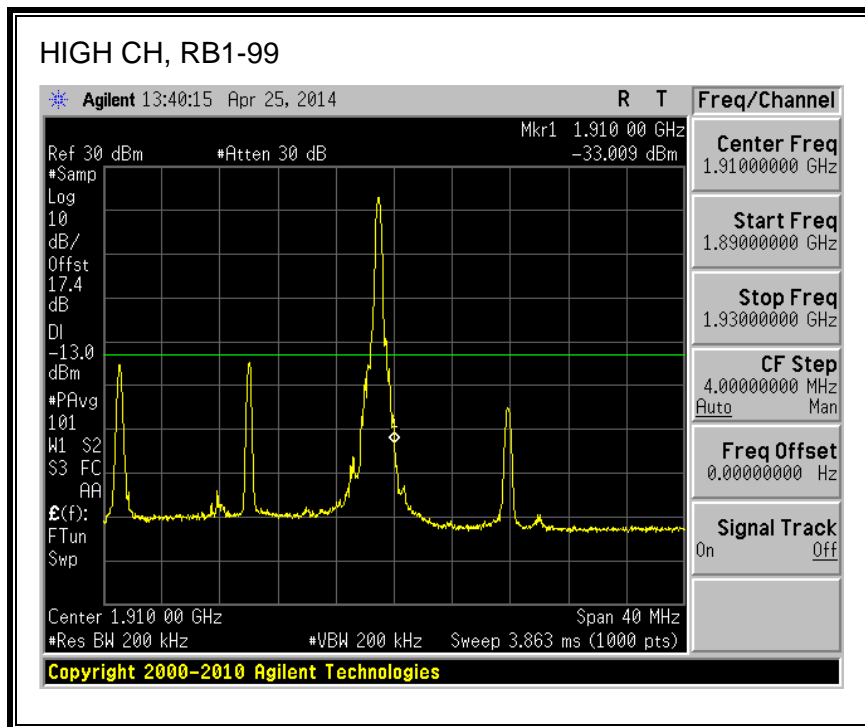
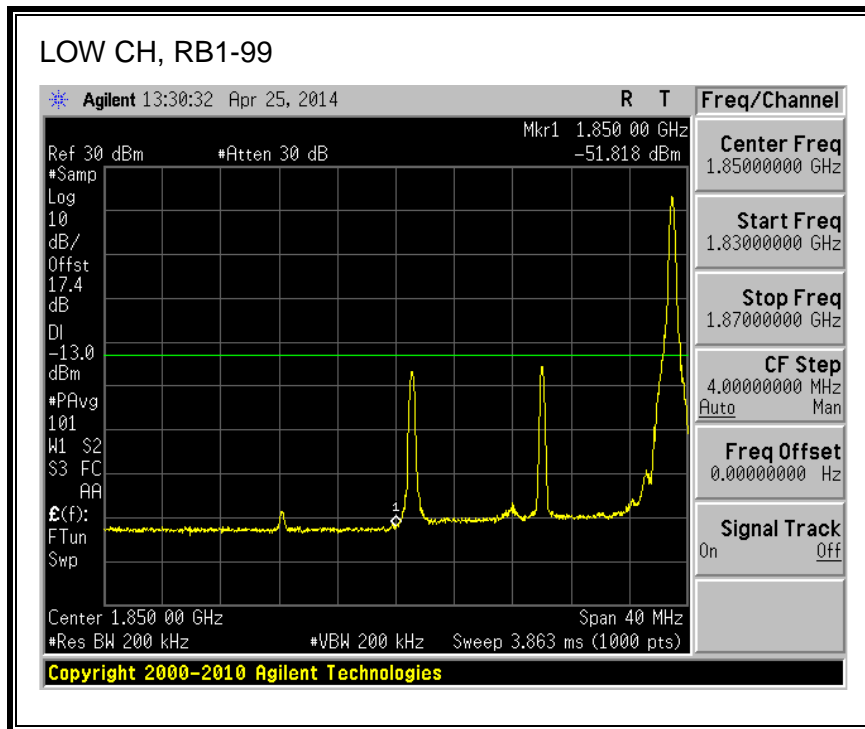


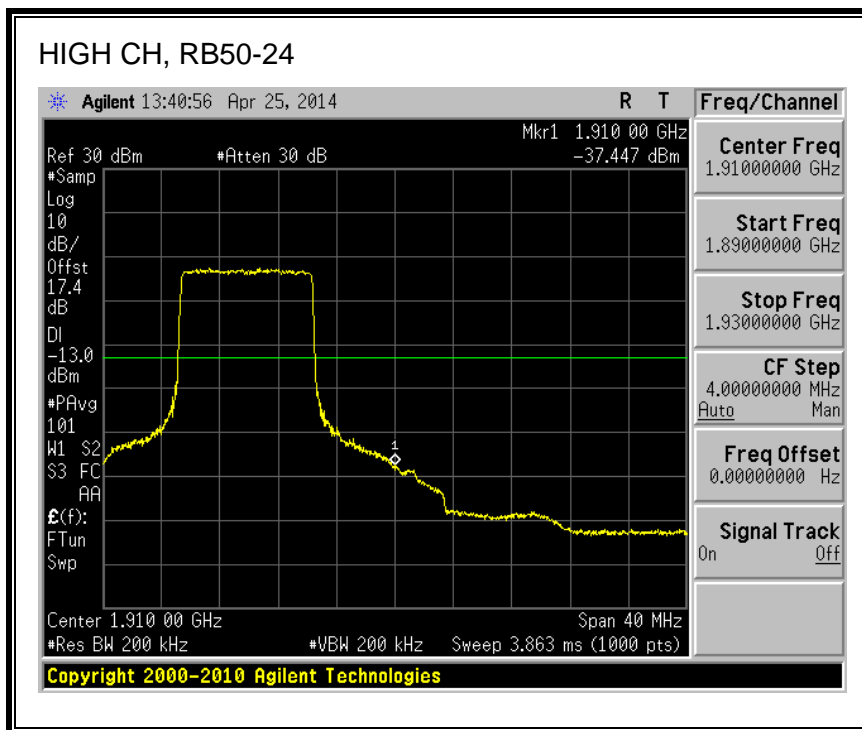
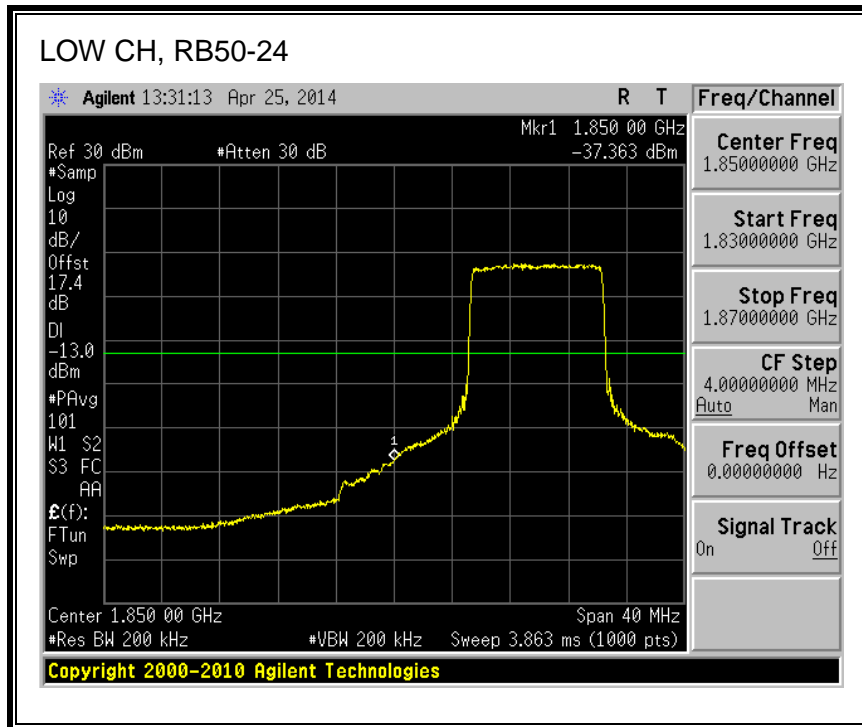


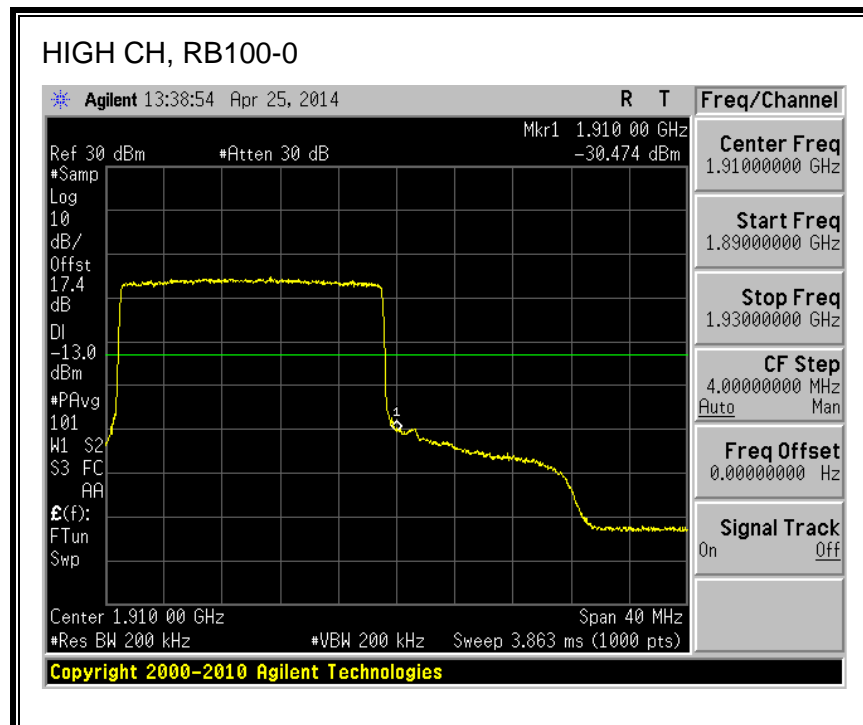
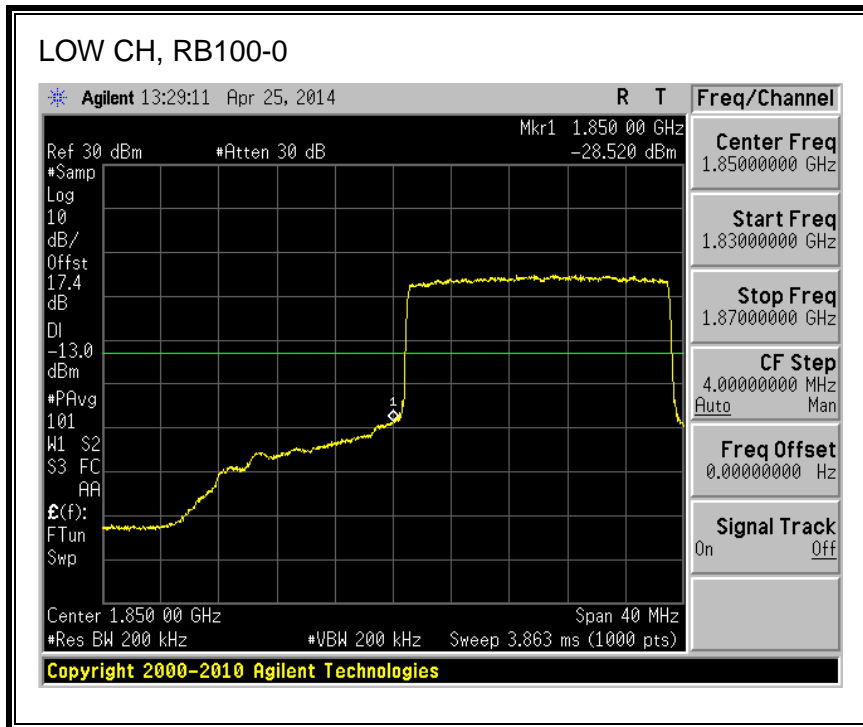


QPSK, (20.0 MHz BAND WIDTH)

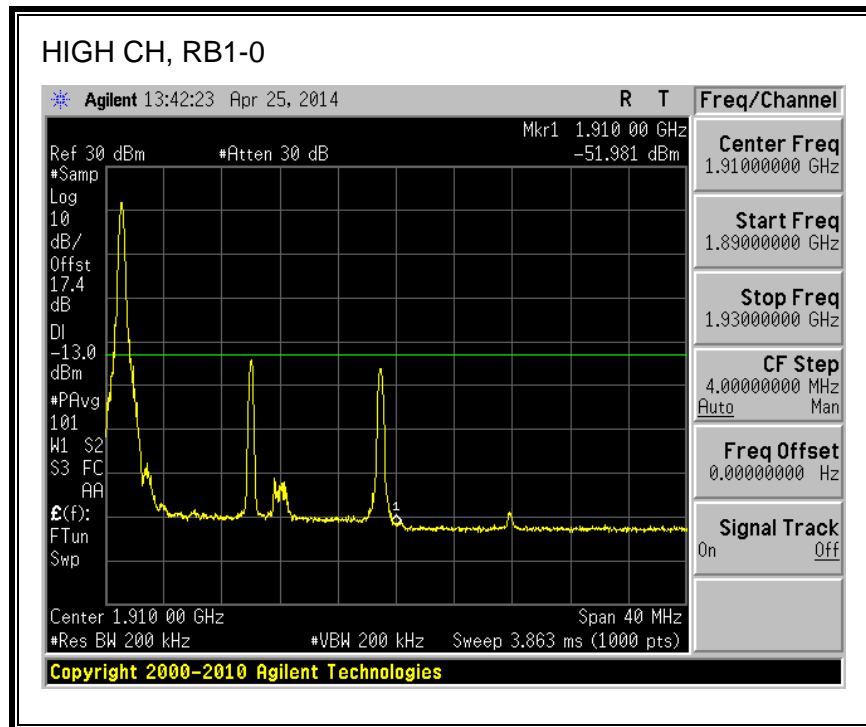
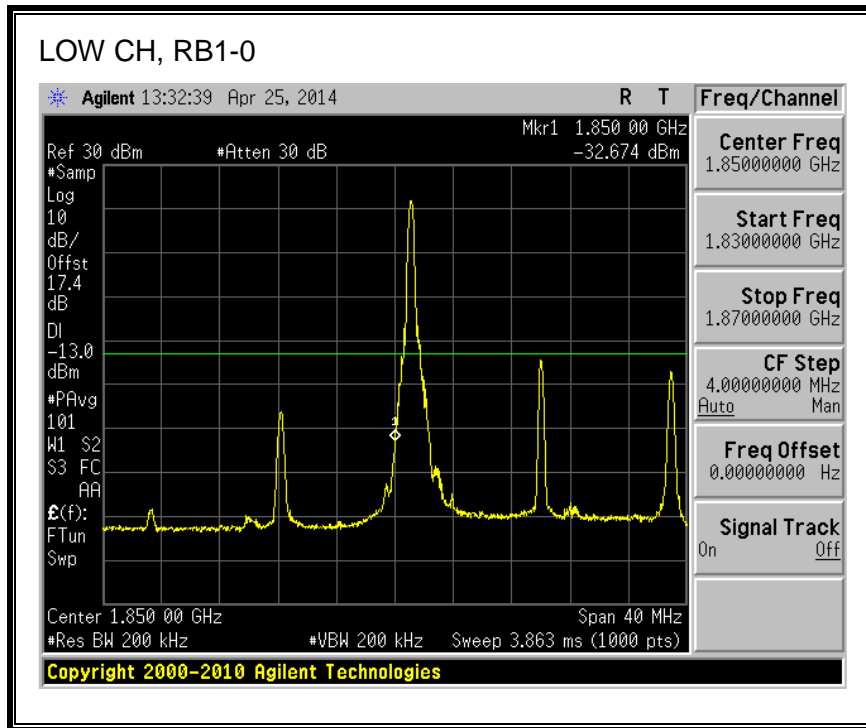


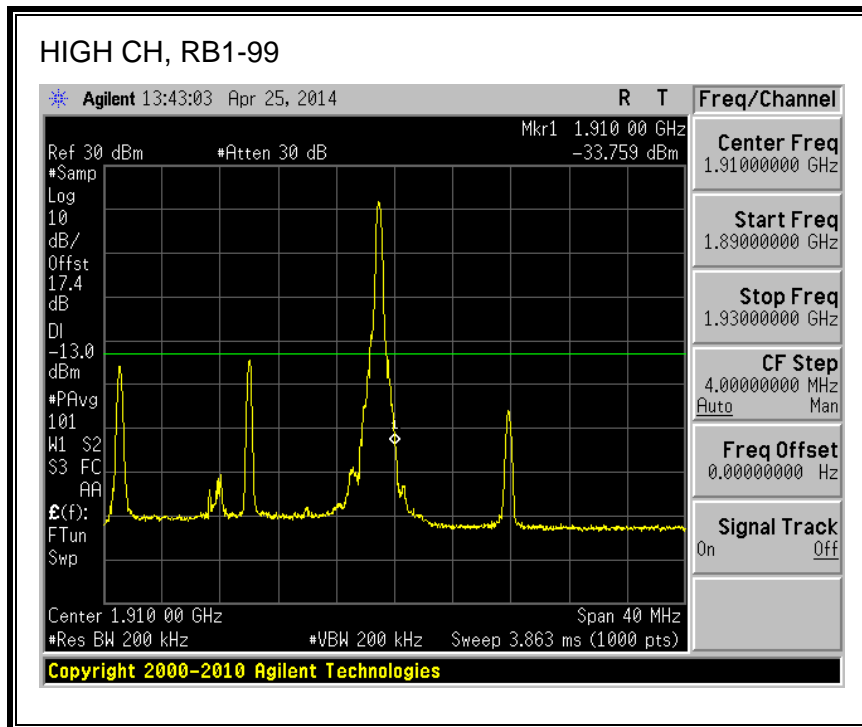
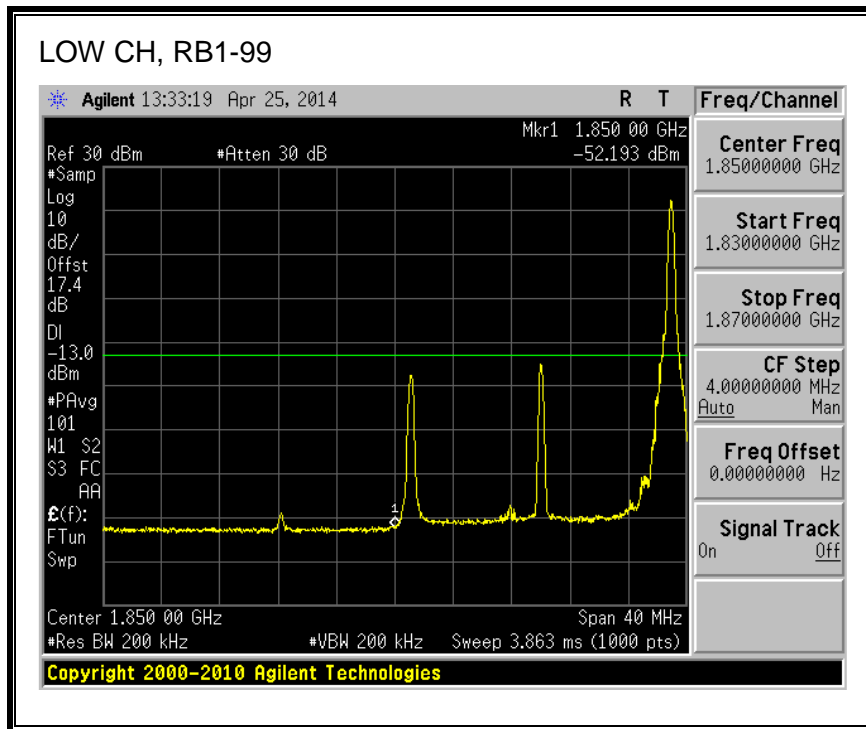


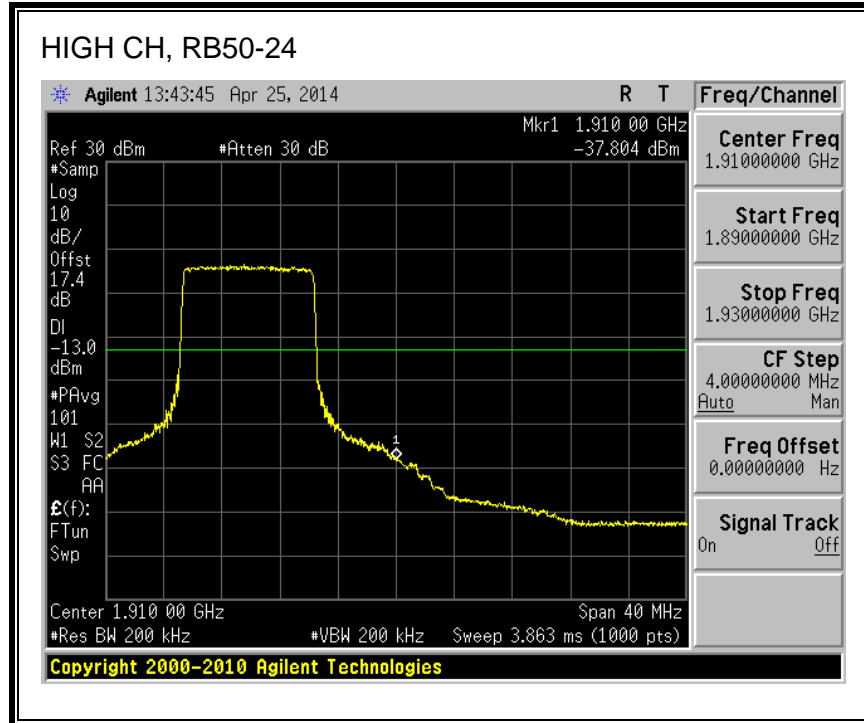
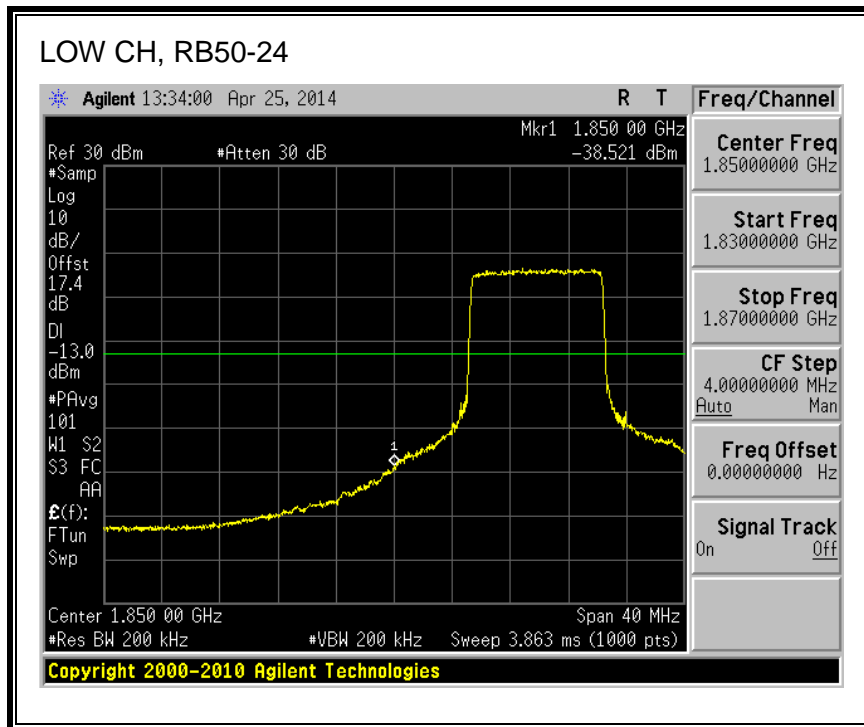


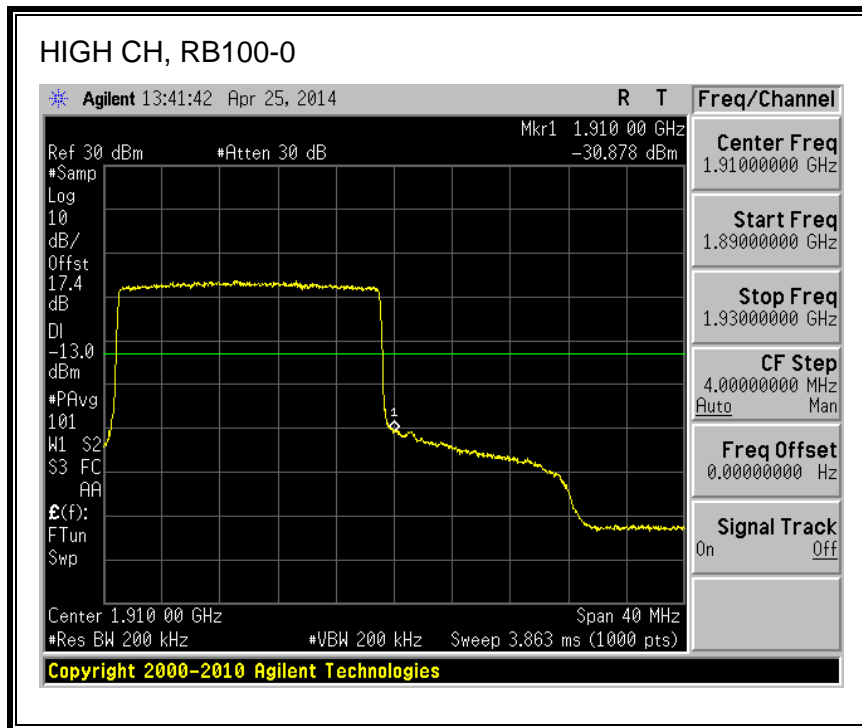
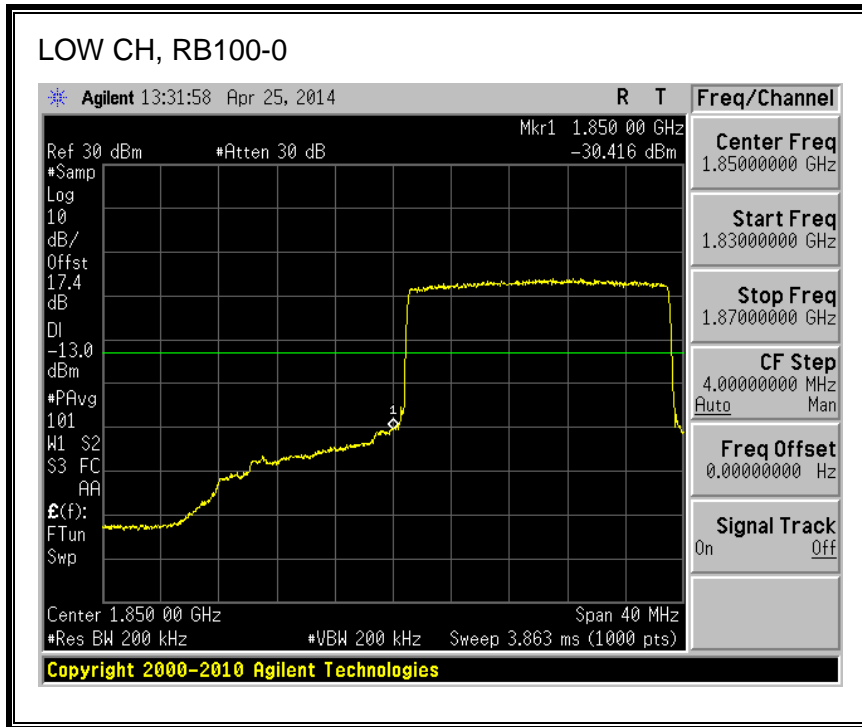


16QAM, (20.0 MHz BAND WIDTH)

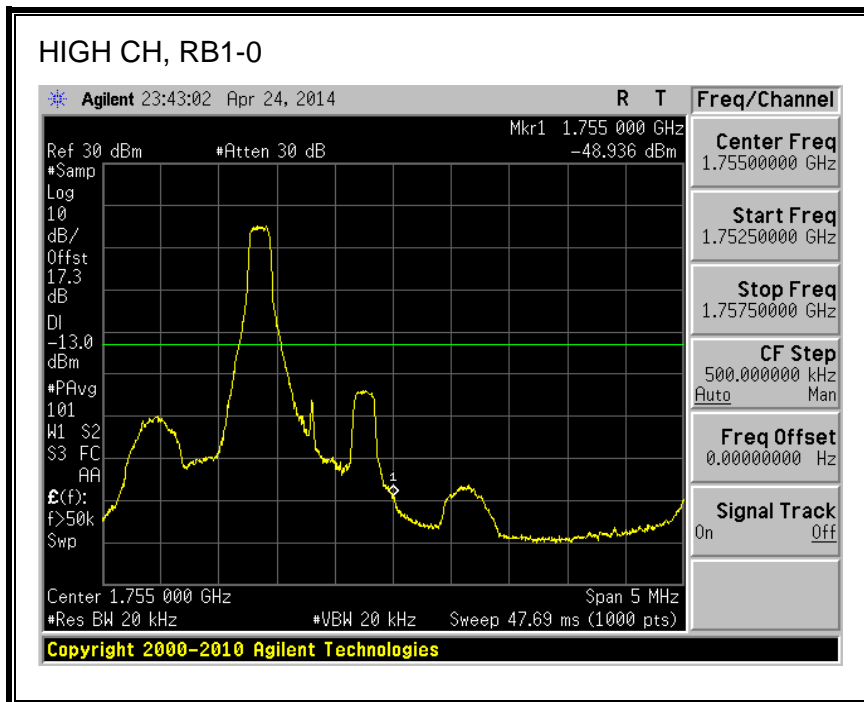
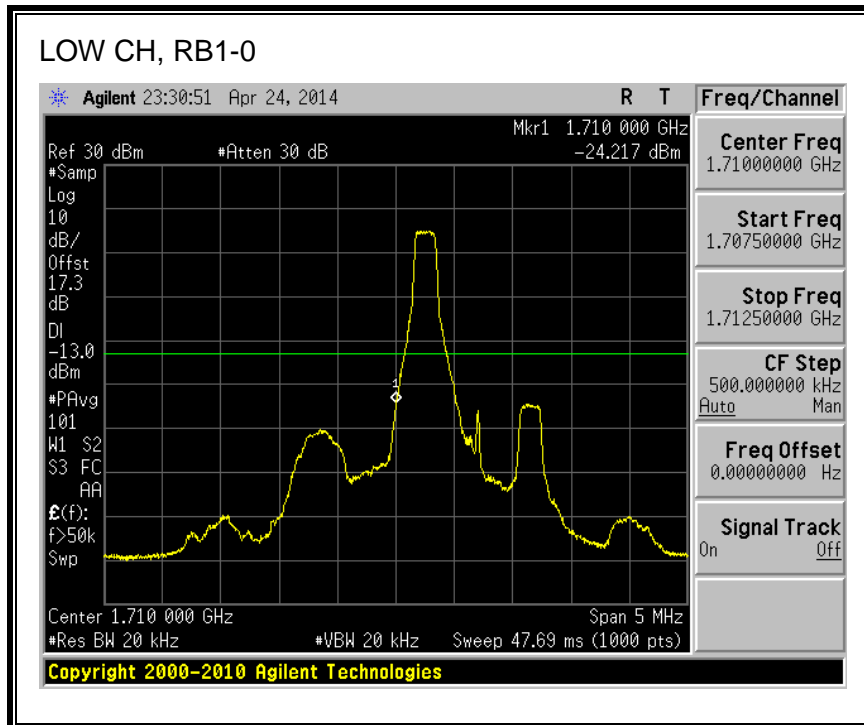


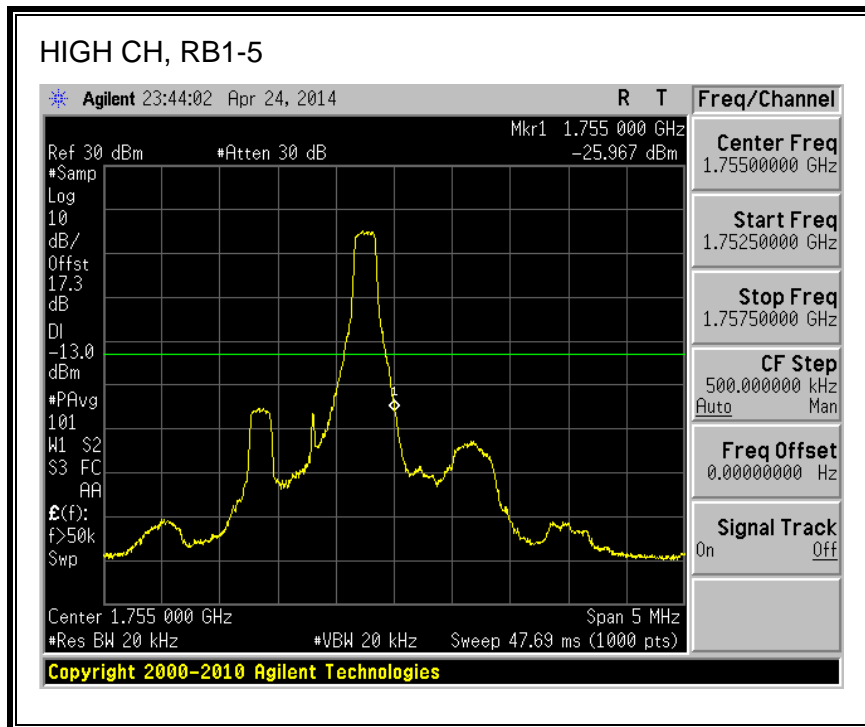
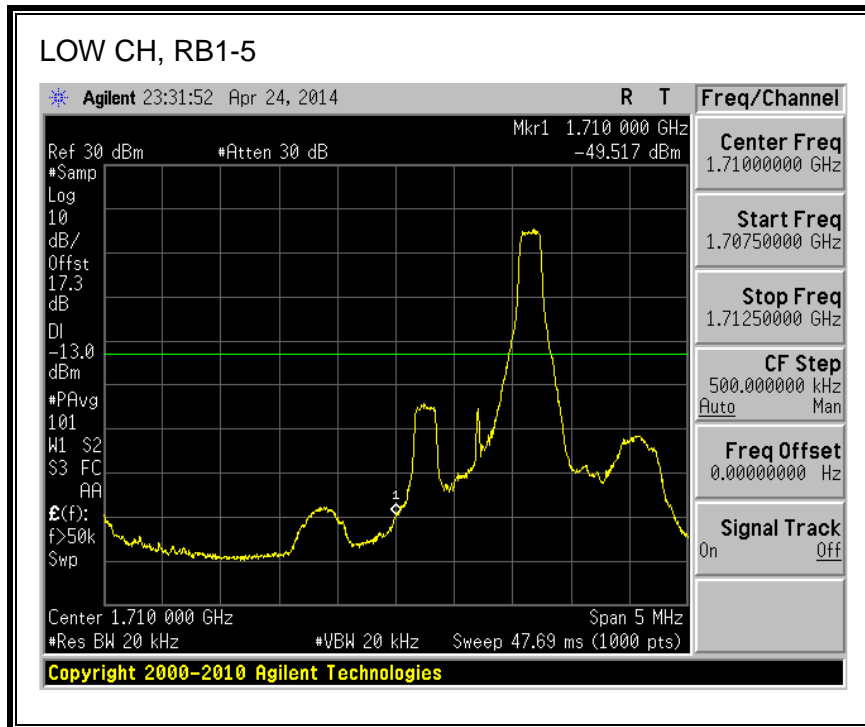


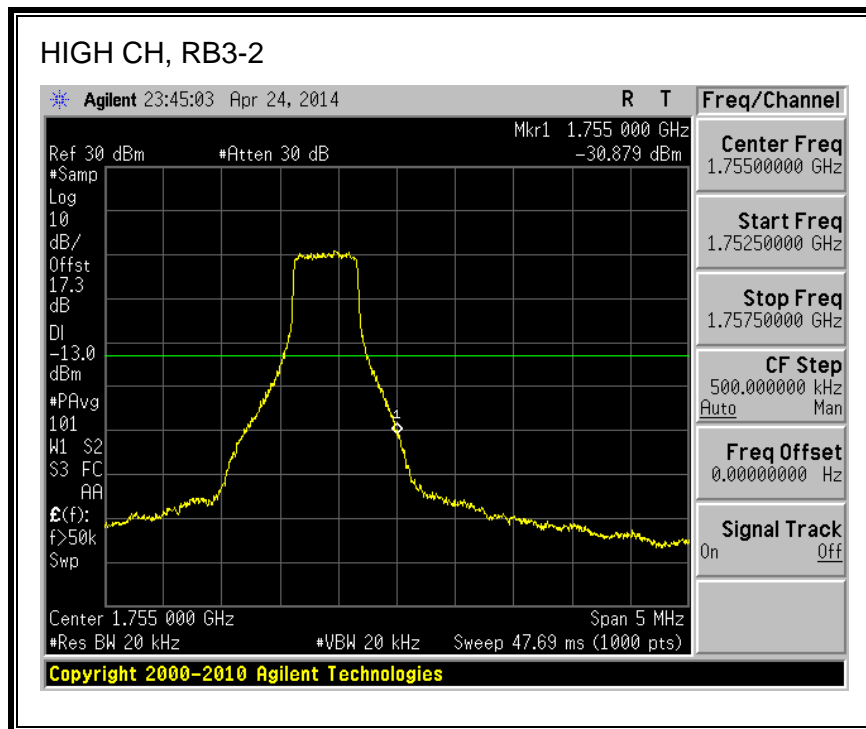
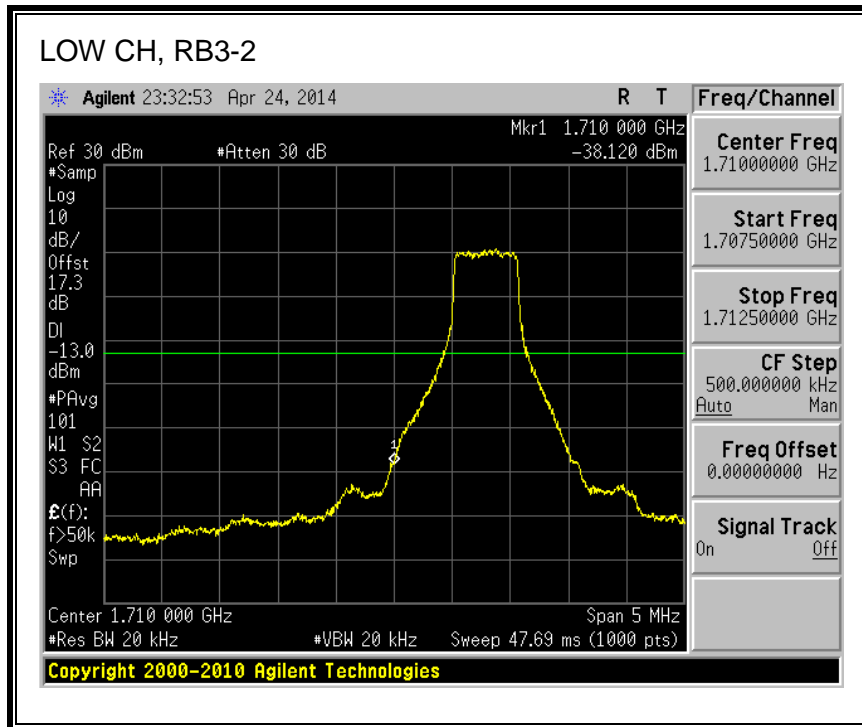


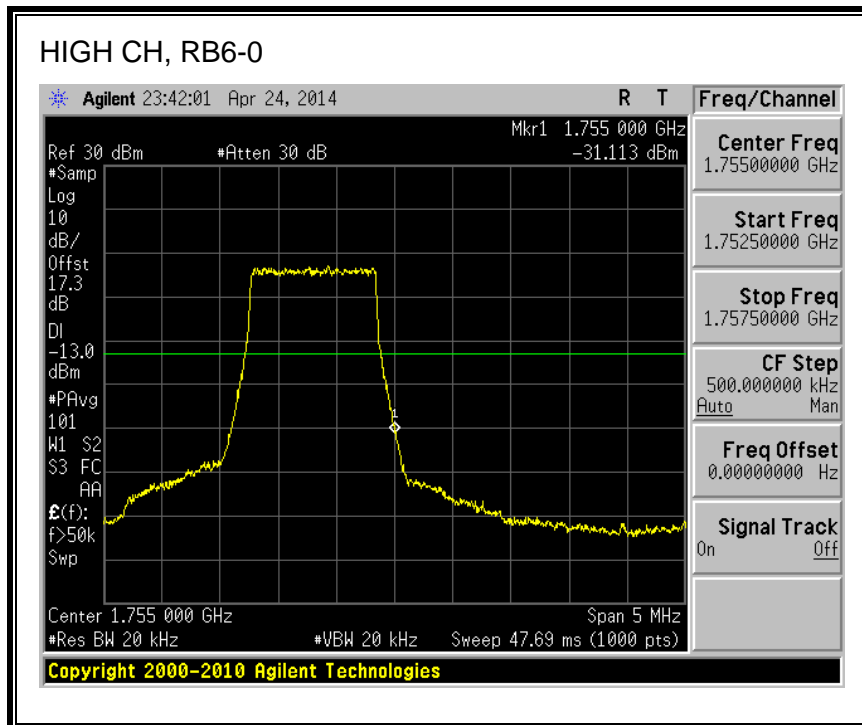
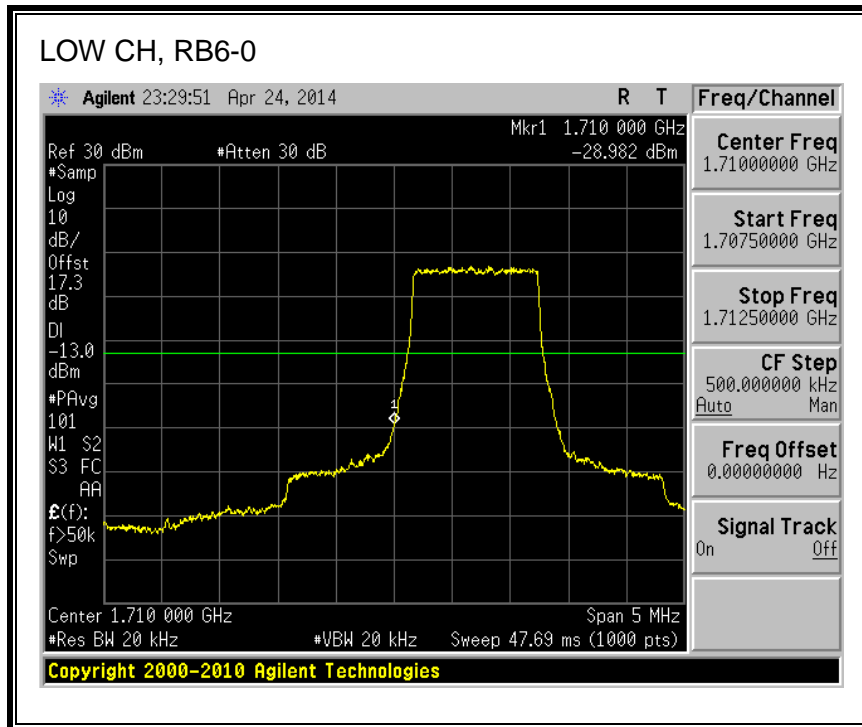


8.2.2. LTE BAND 4 BANDEDGE
QPSK, (1.4 MHz BAND WIDTH)

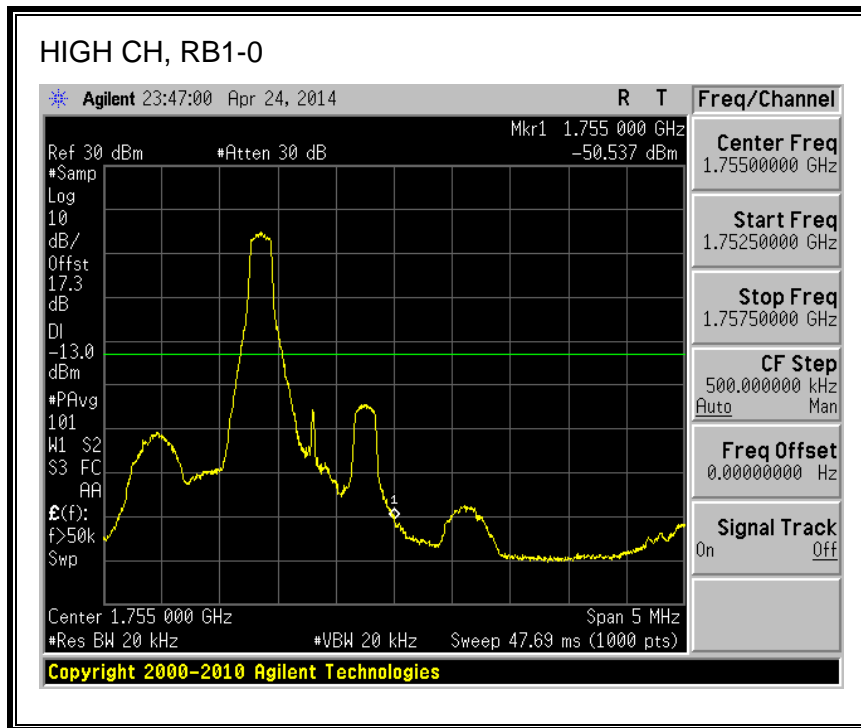
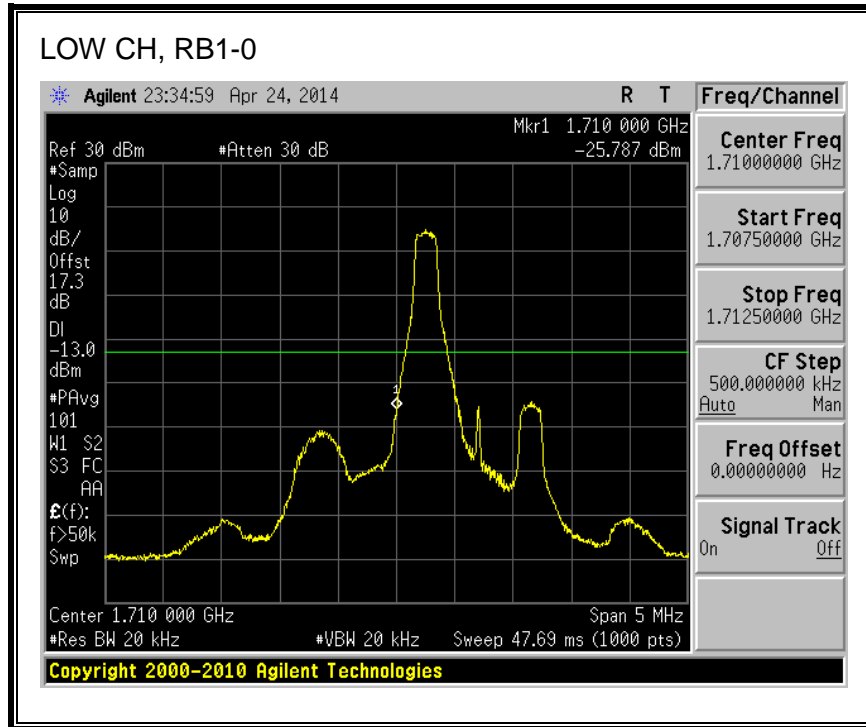


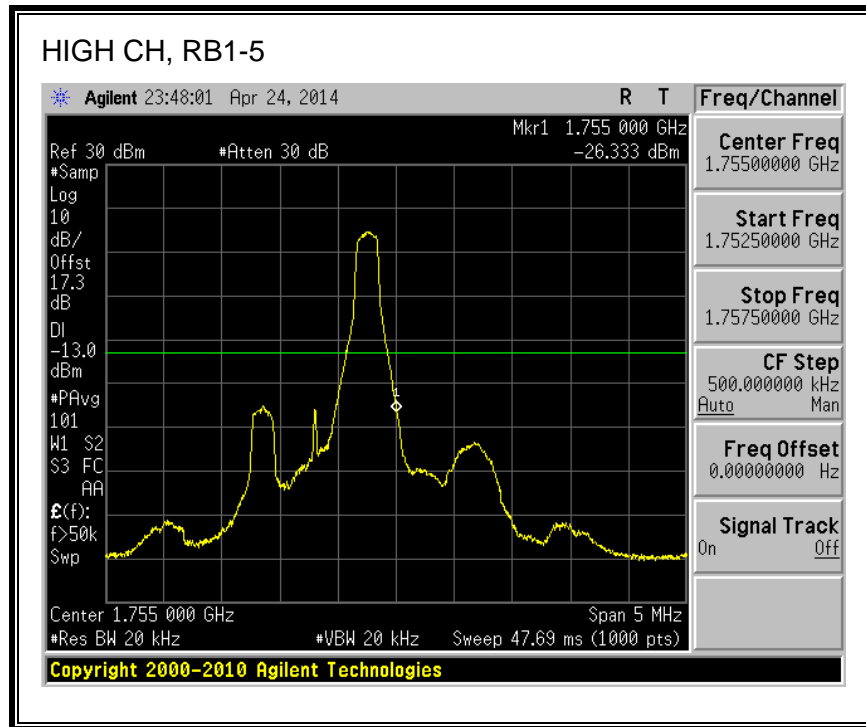
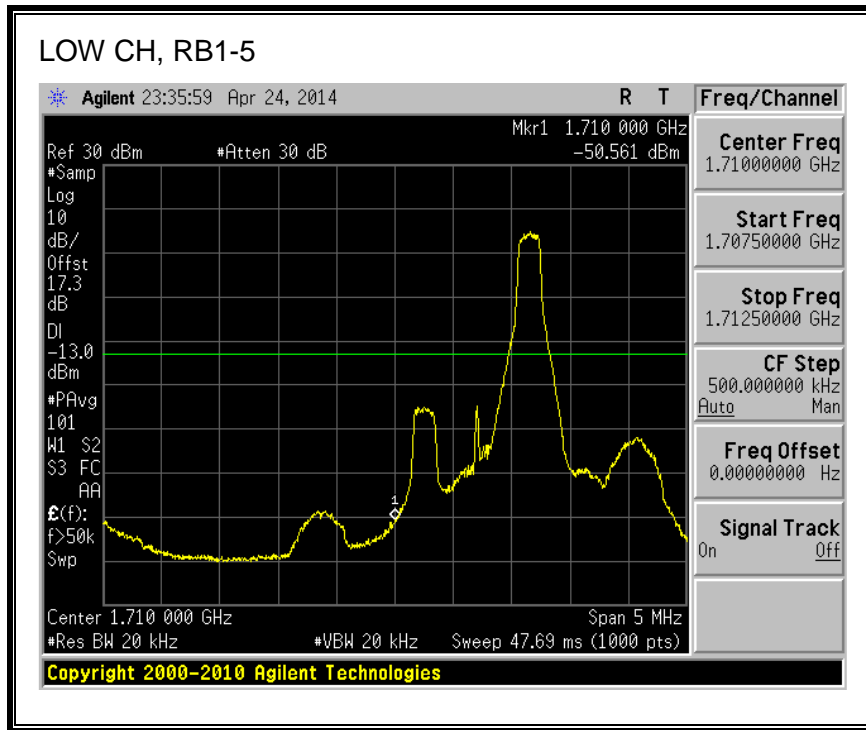


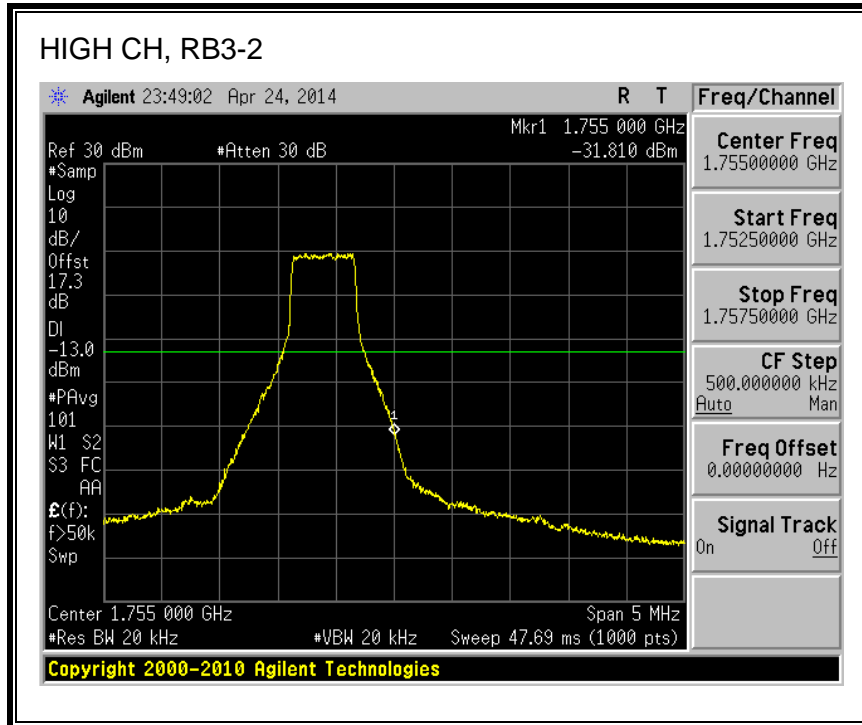
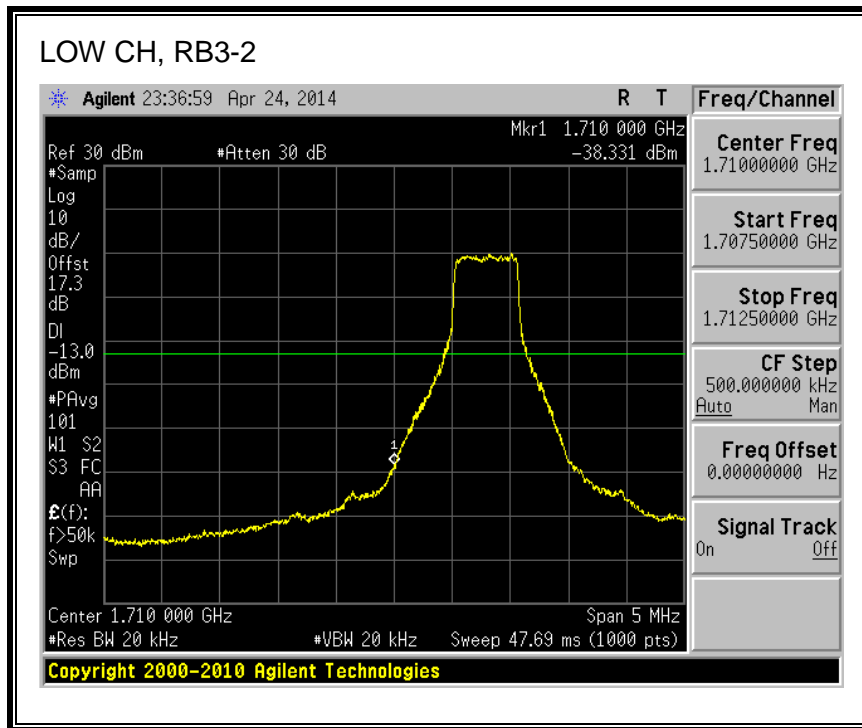


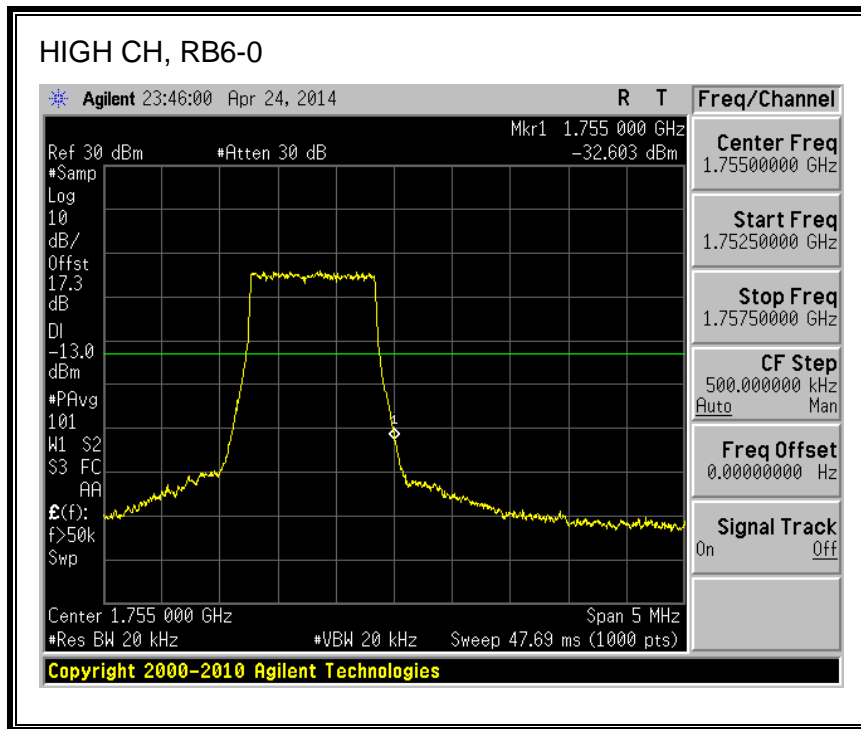
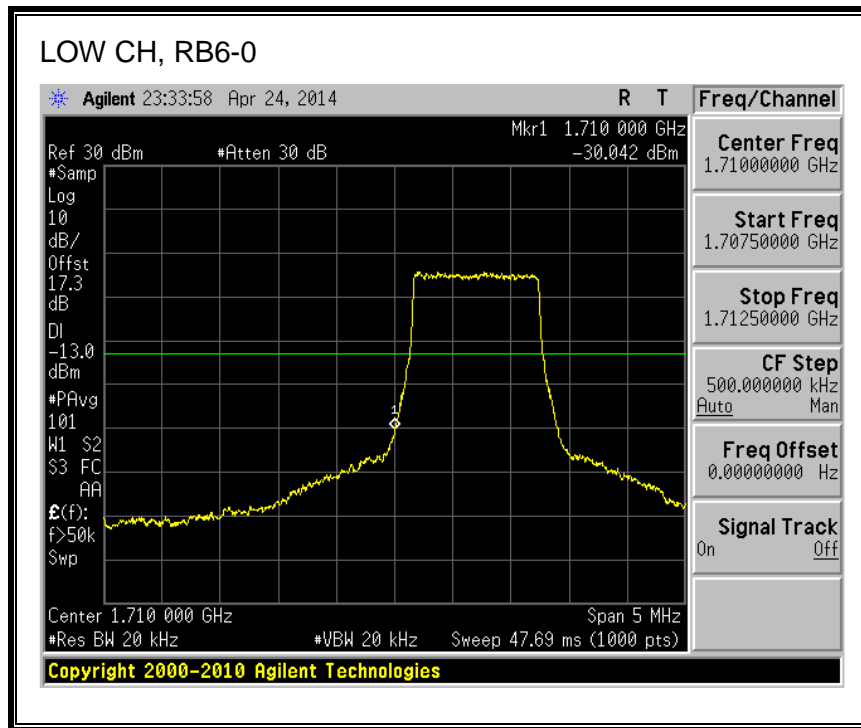


16QAM, (1.4 MHz BAND WIDTH)

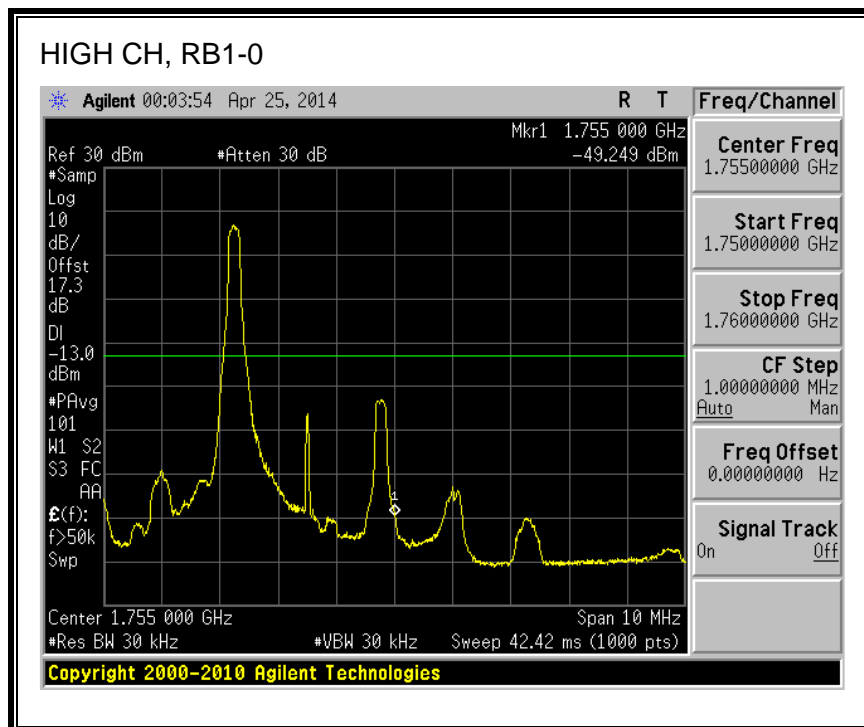
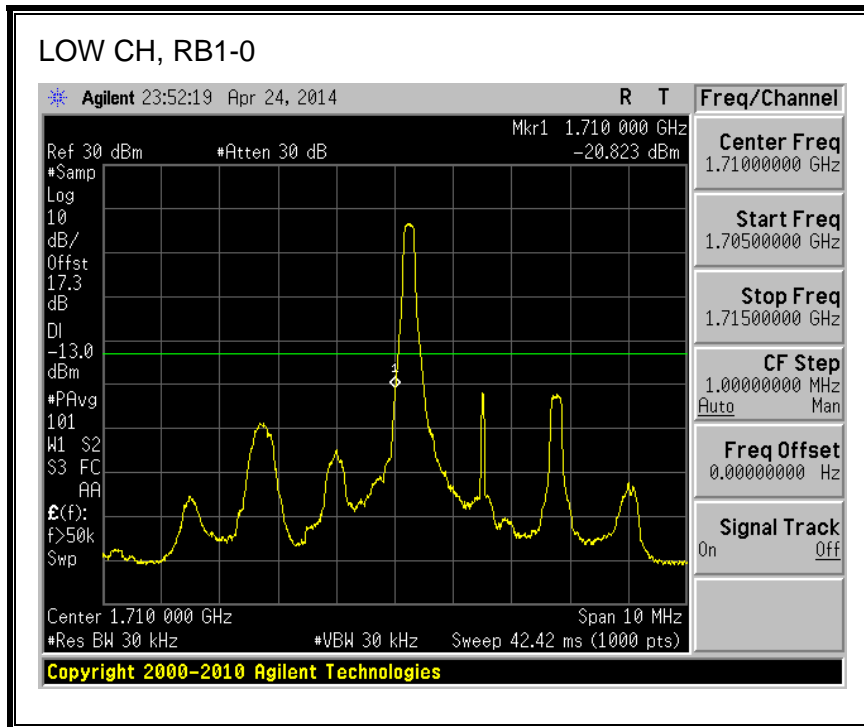


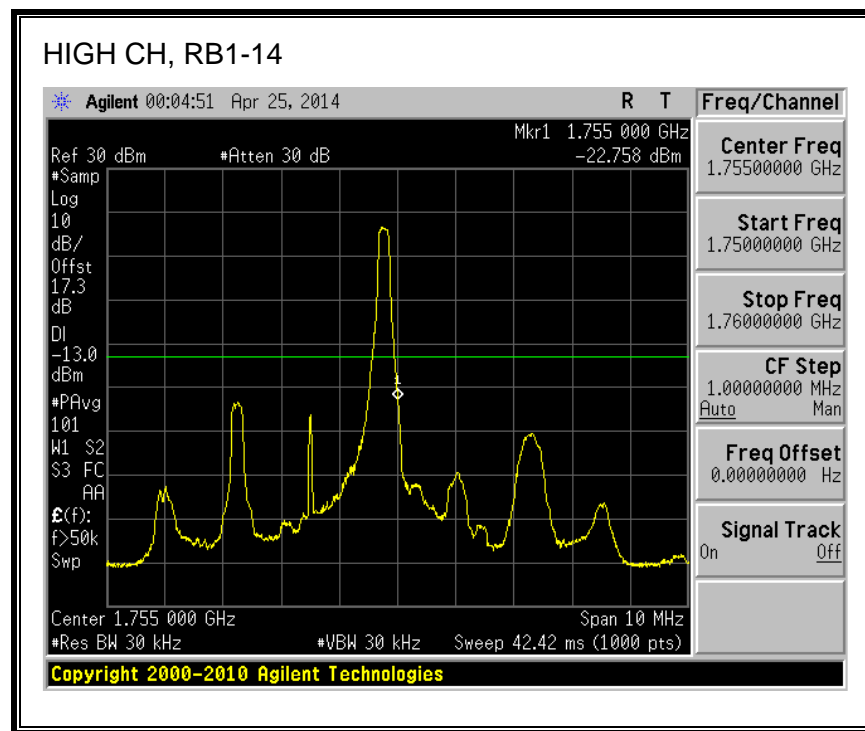
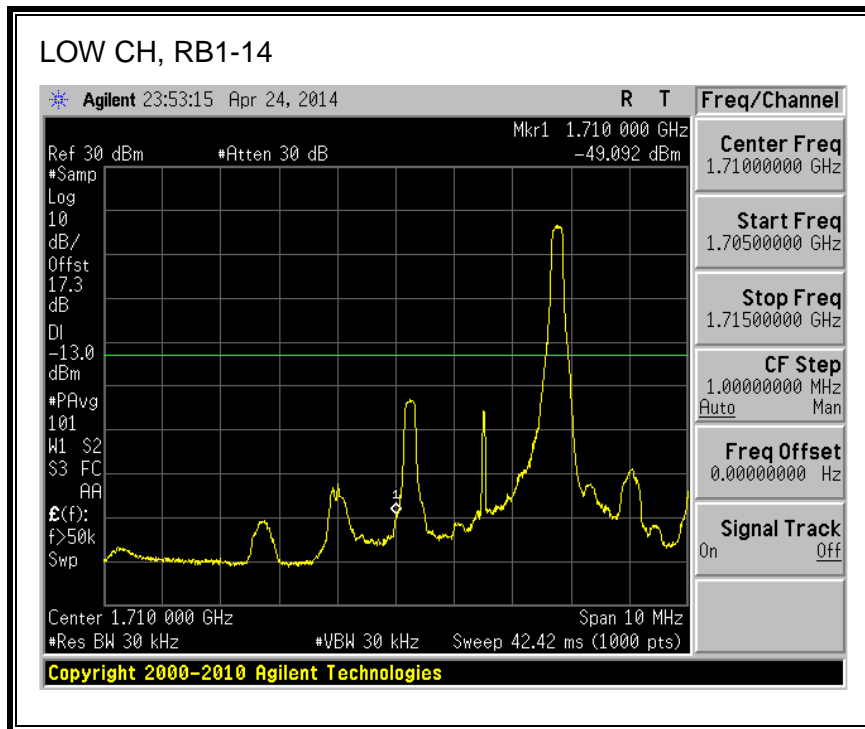


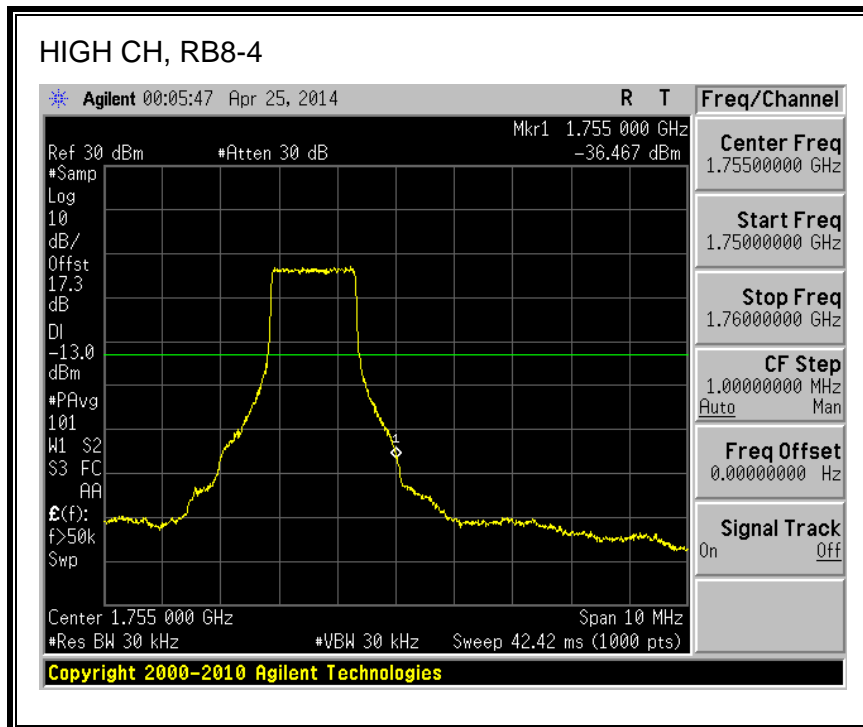
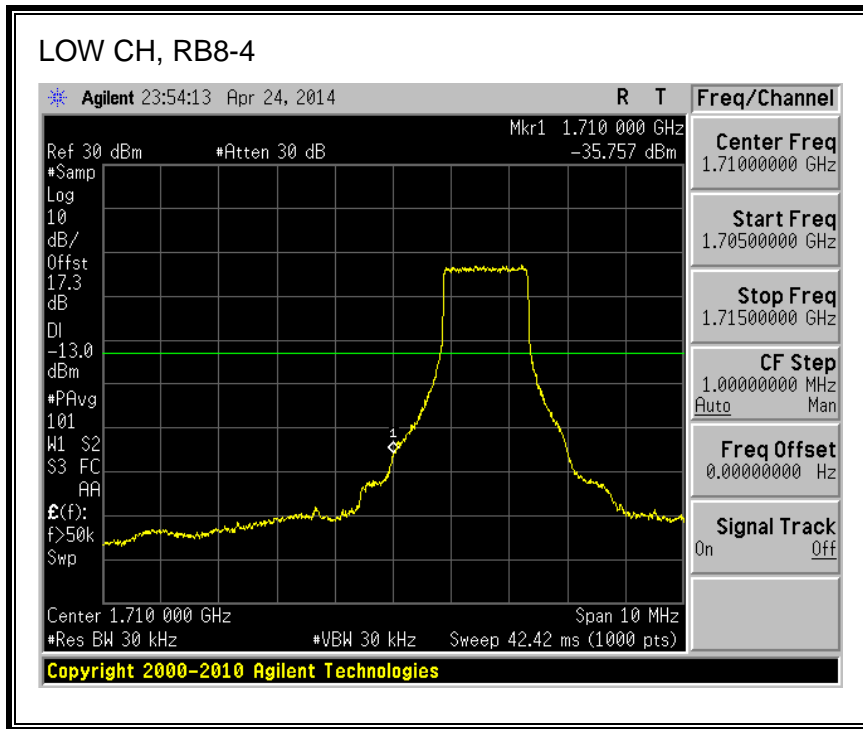


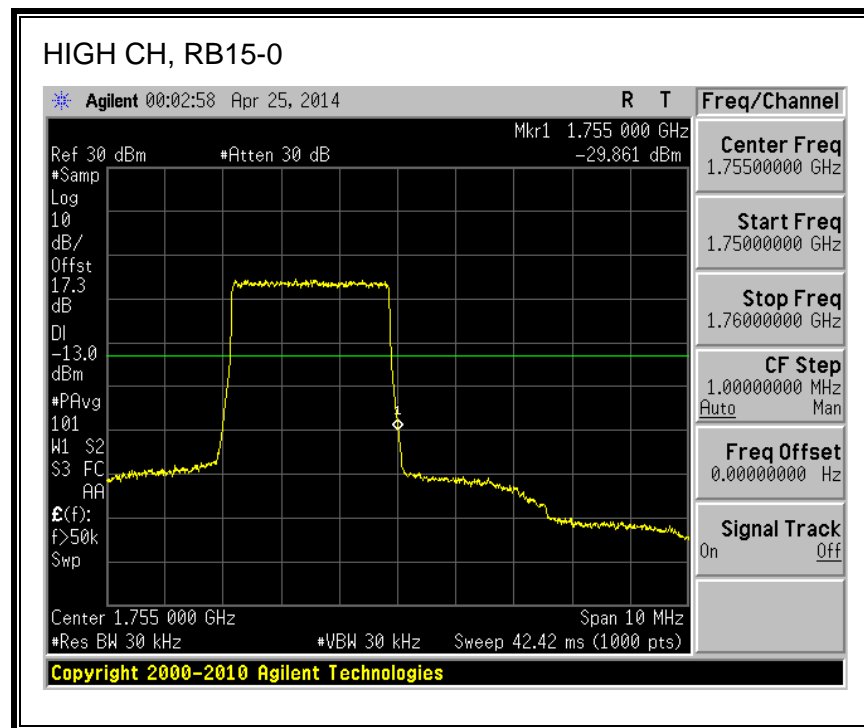
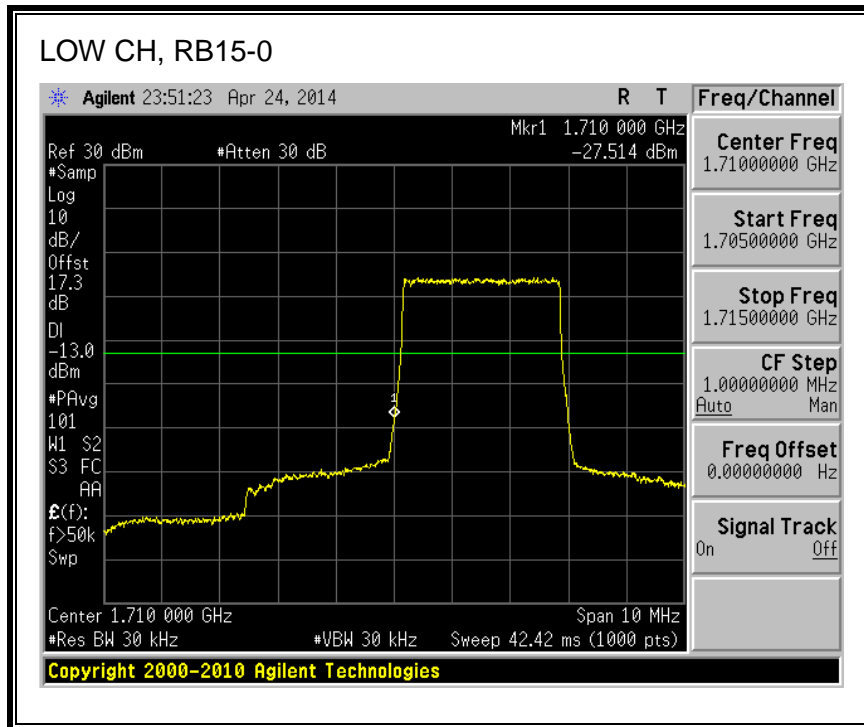


QPSK, (3.0 MHz BAND WIDTH)

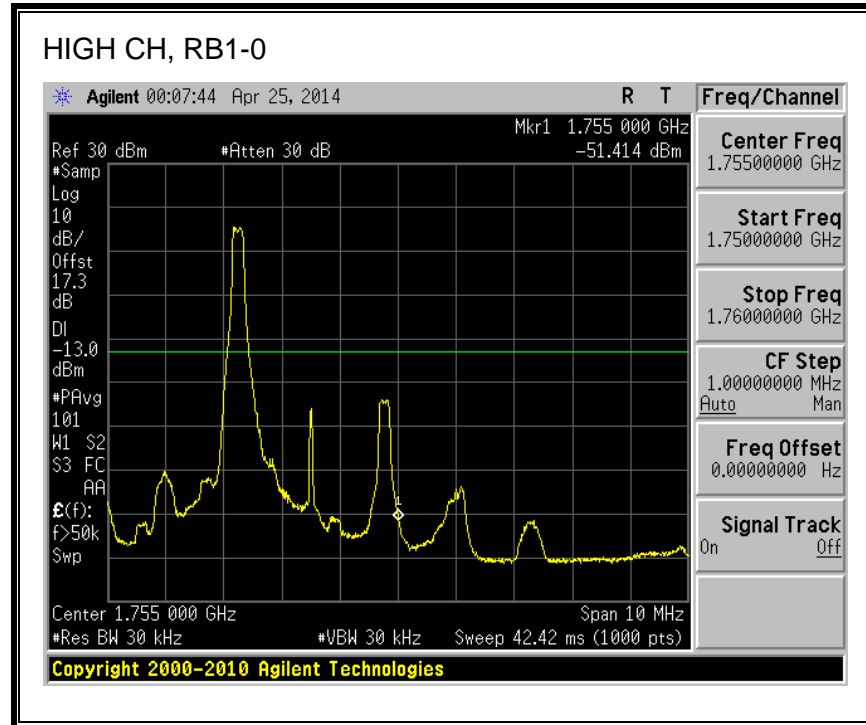
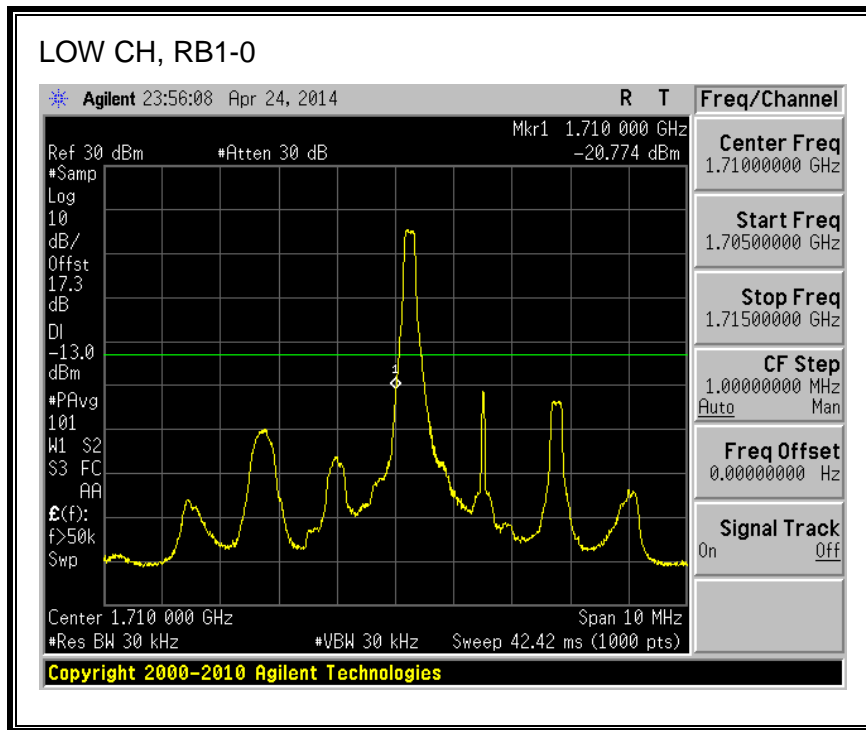


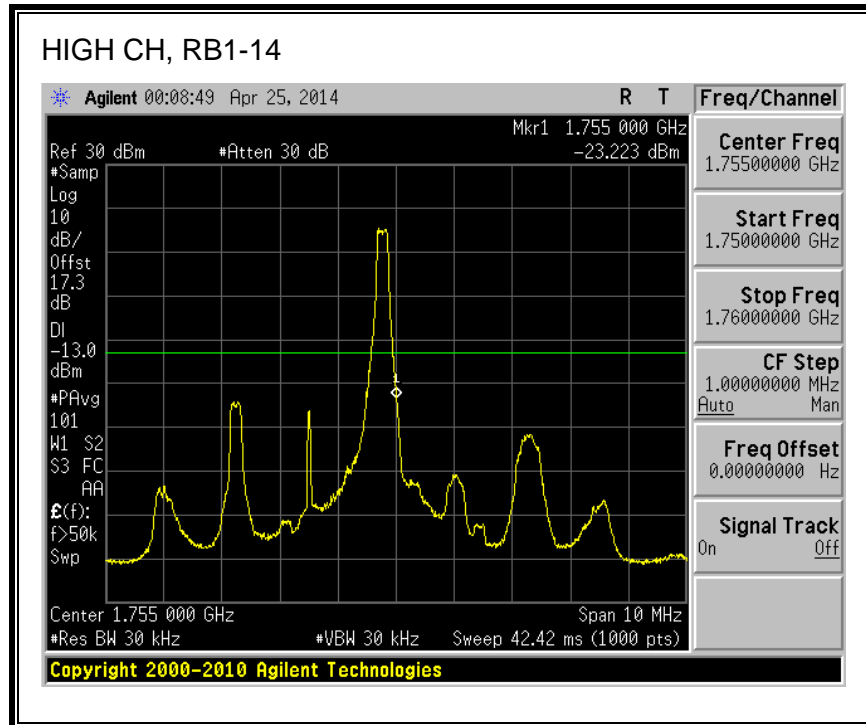
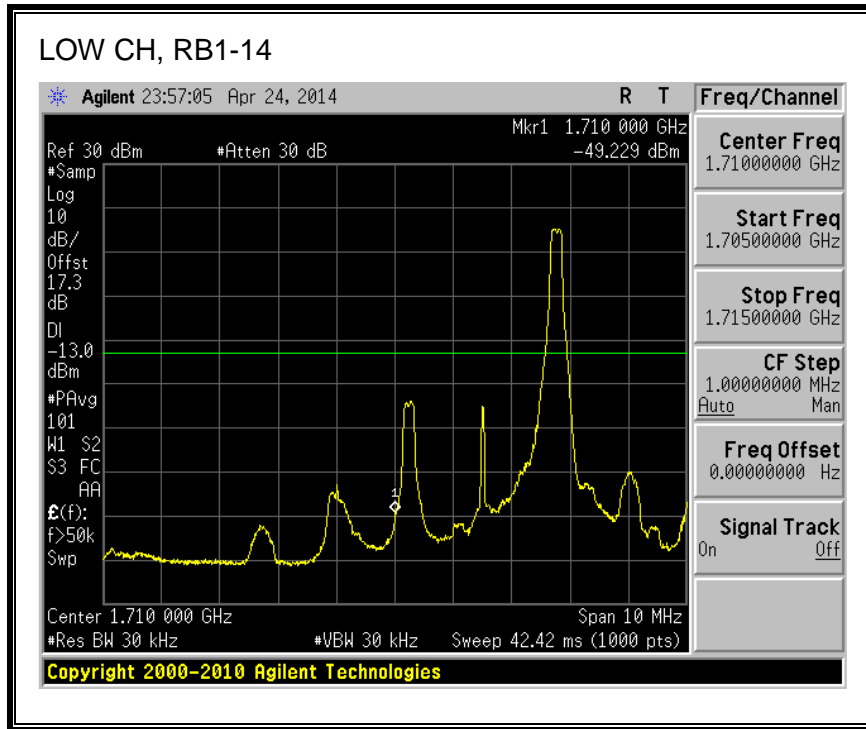


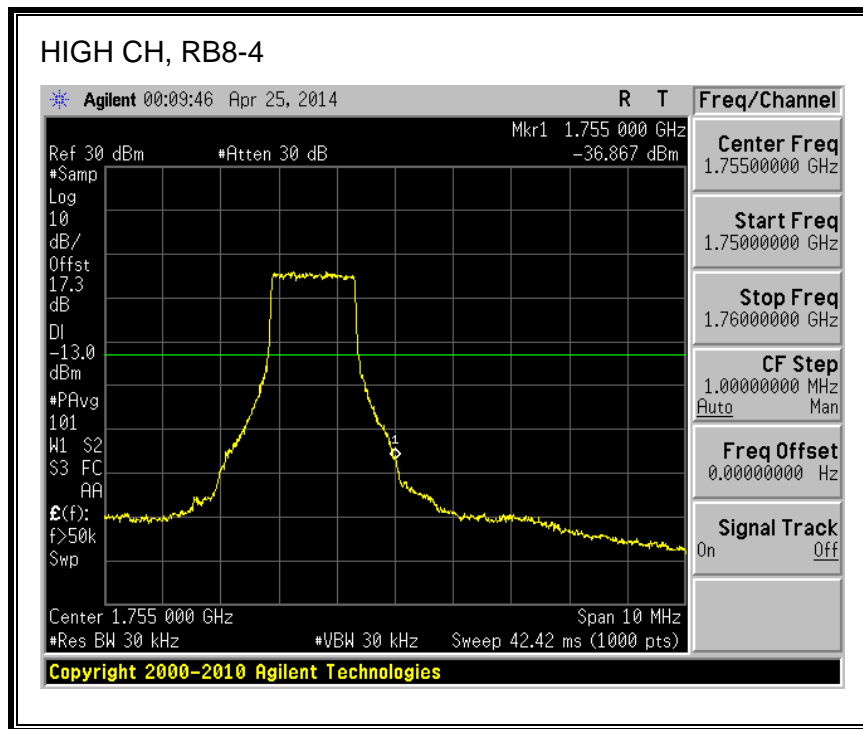
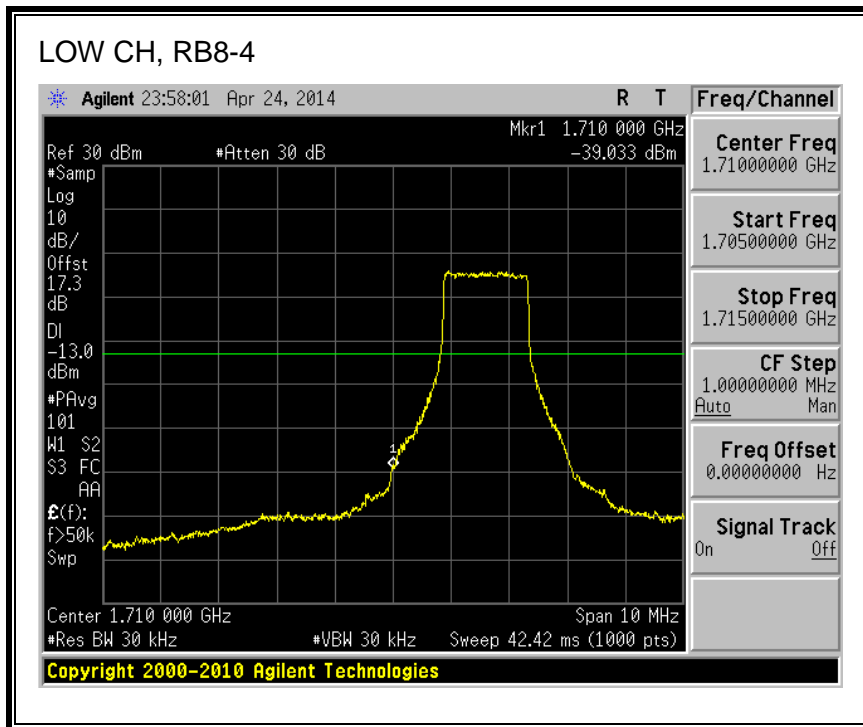


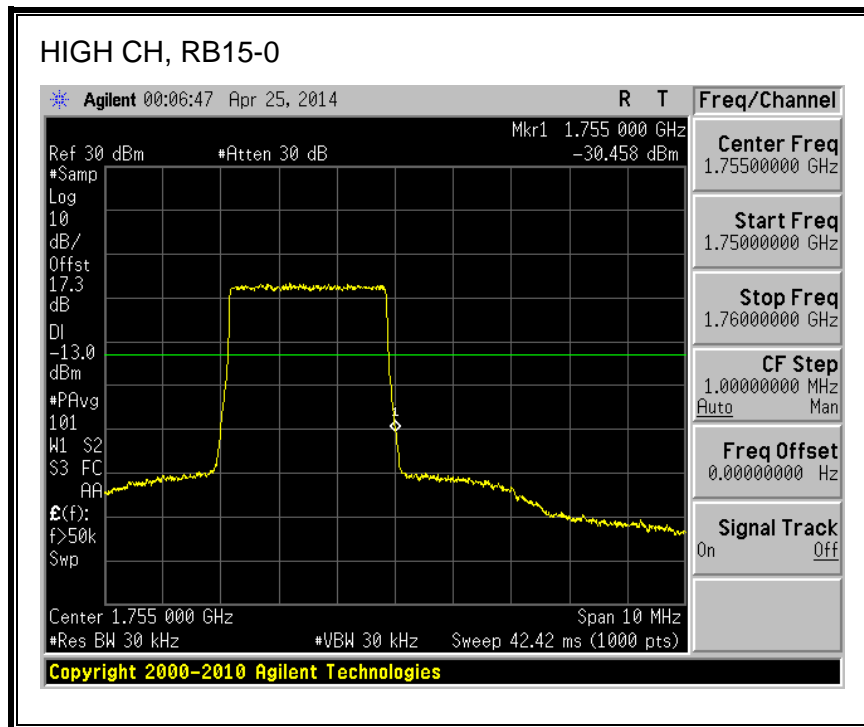
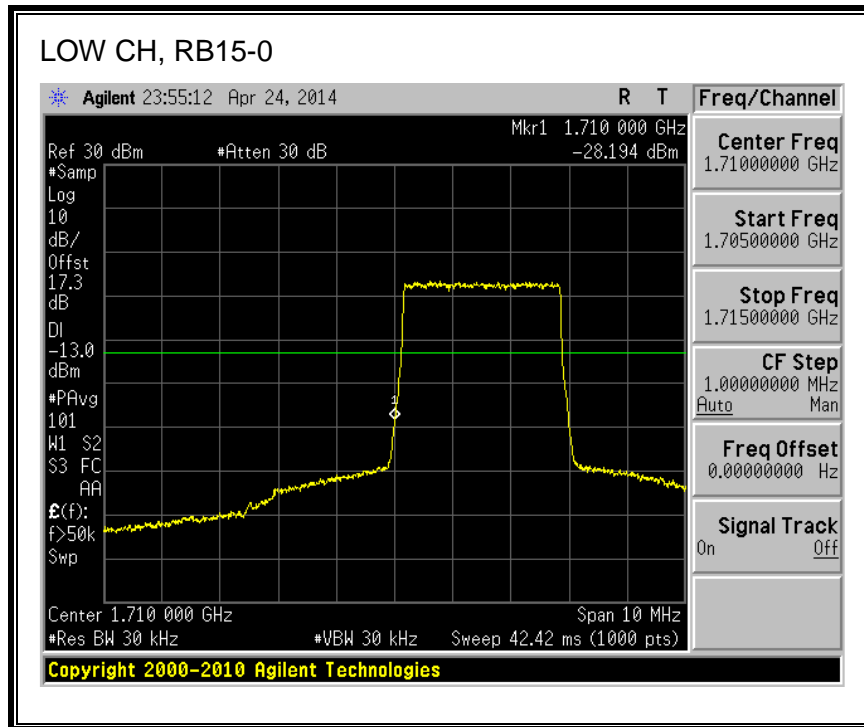


16QAM, (3.0 MHz BAND WIDTH)

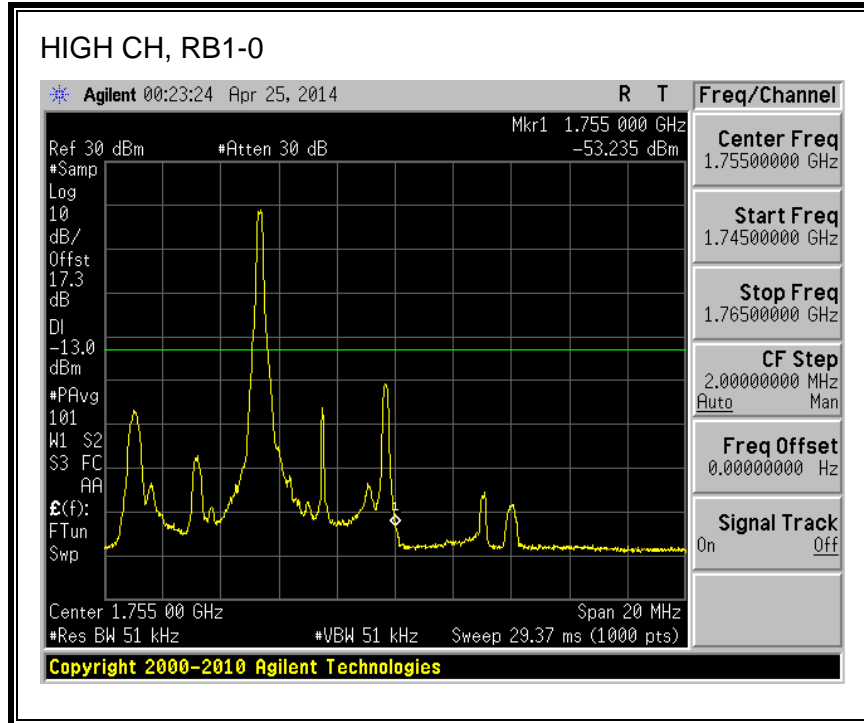
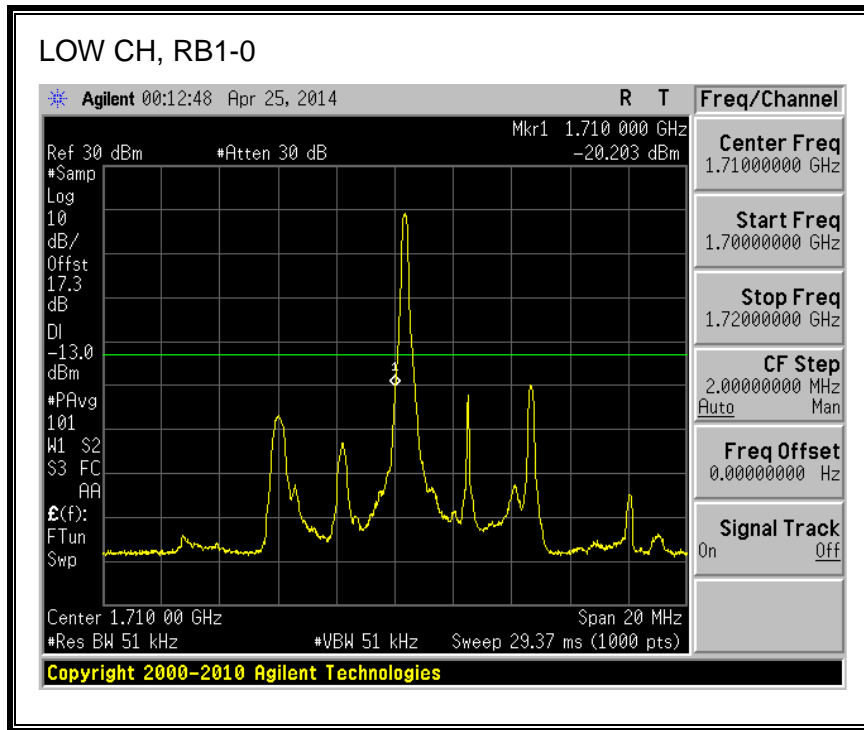


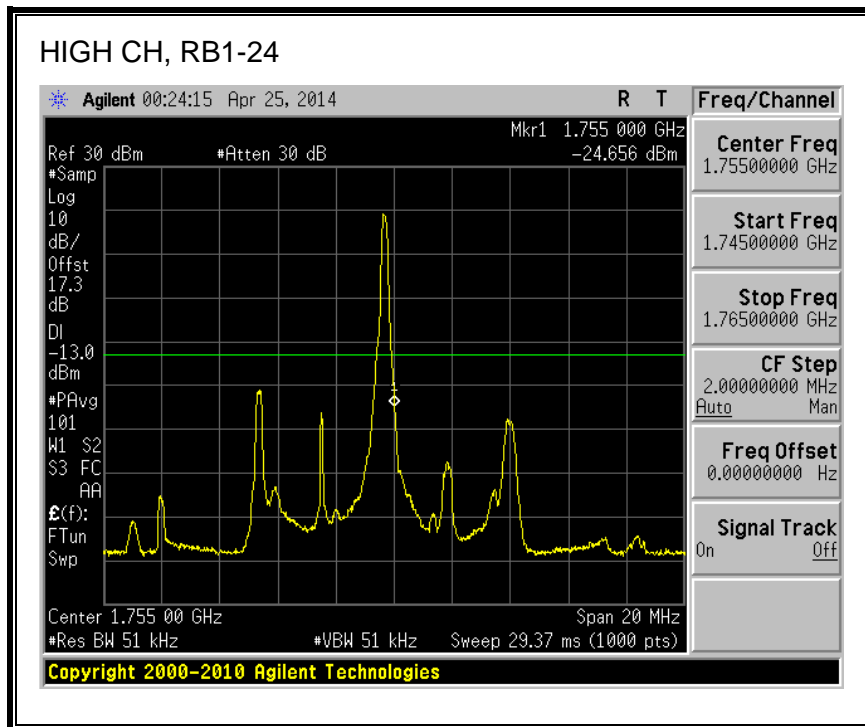
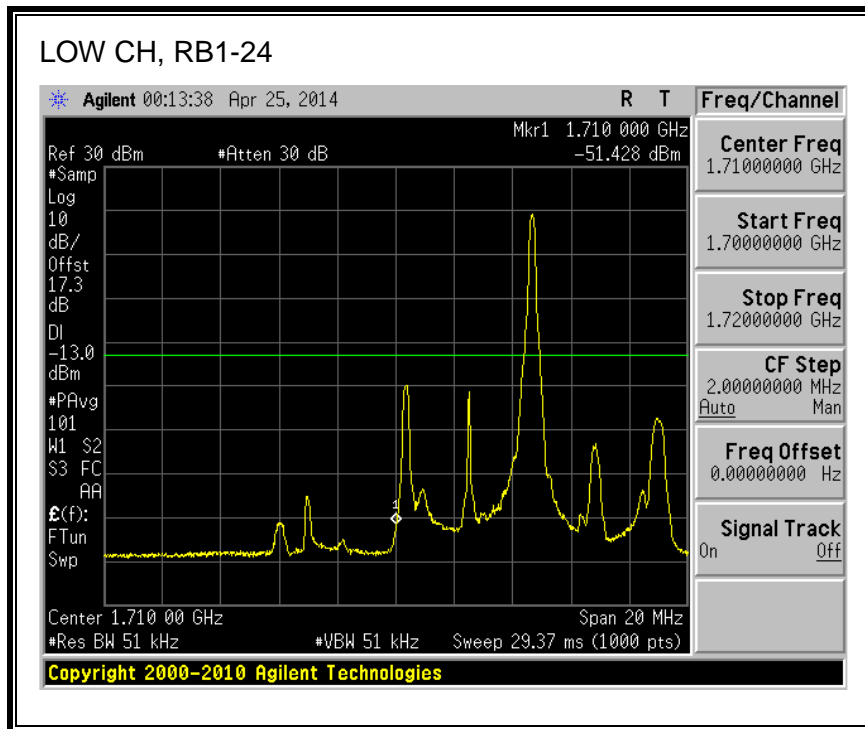


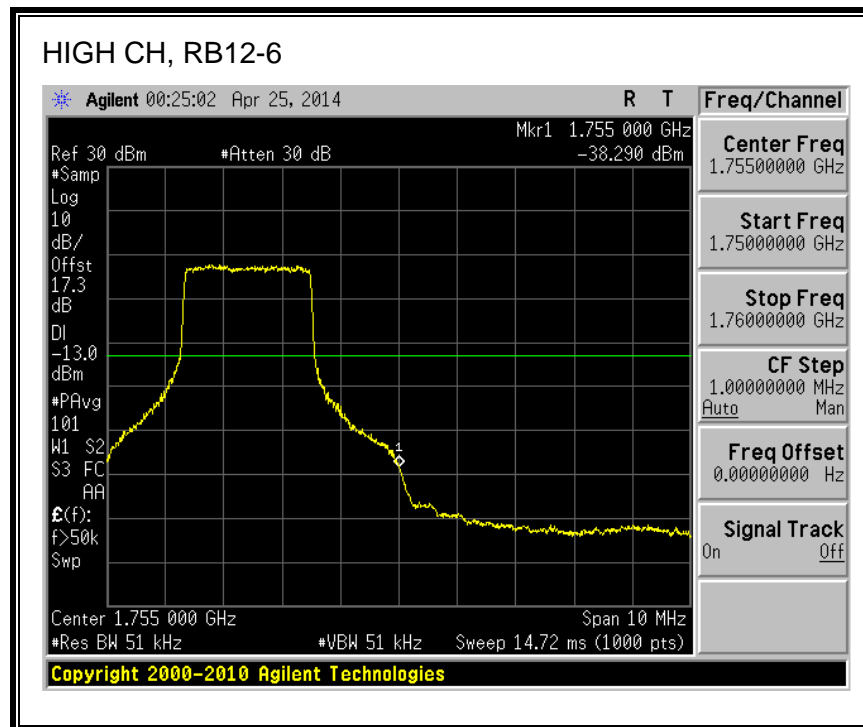
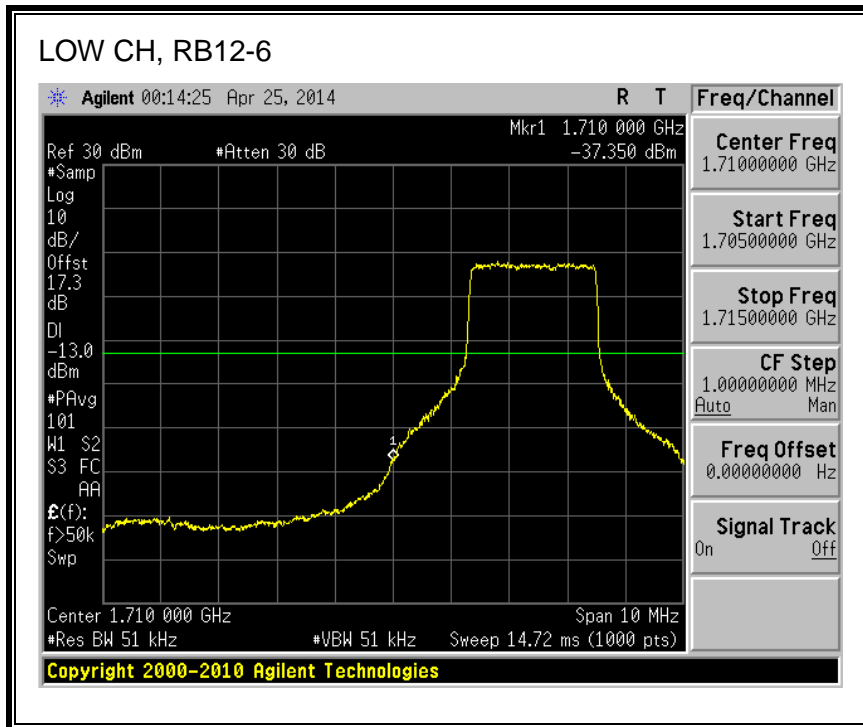


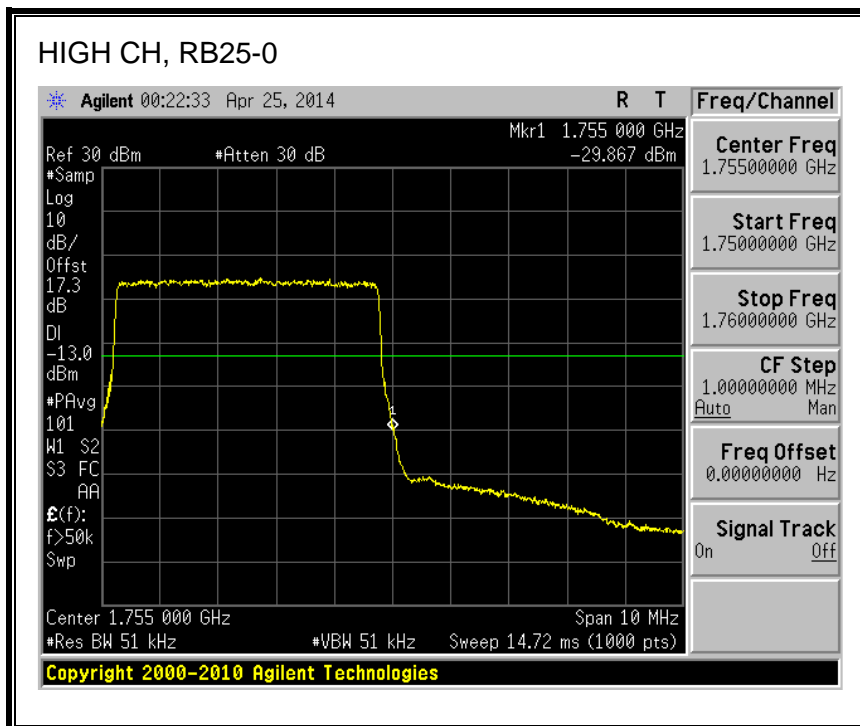
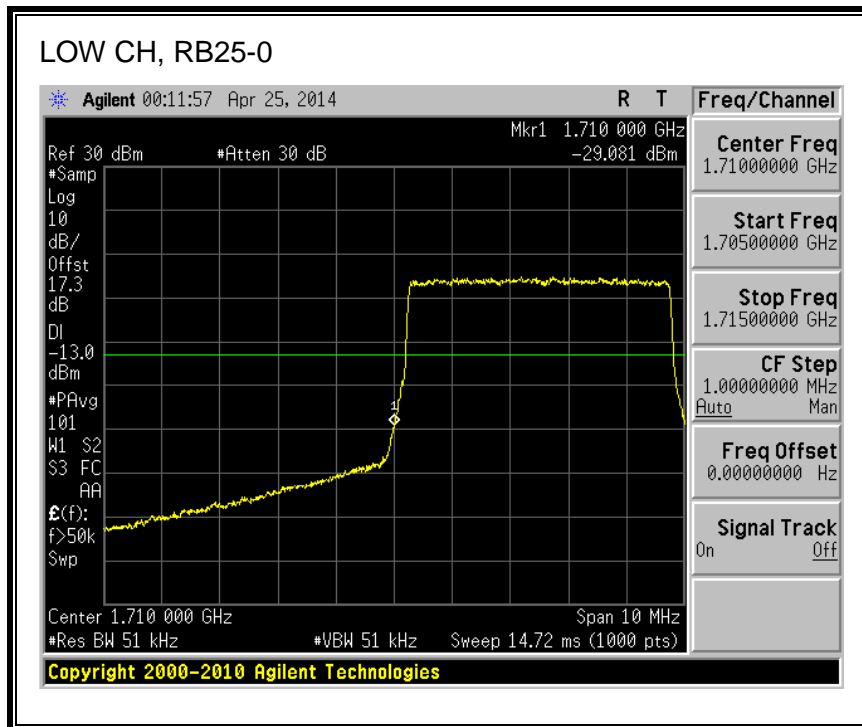


QPSK, (5.0 MHz BAND WIDTH)

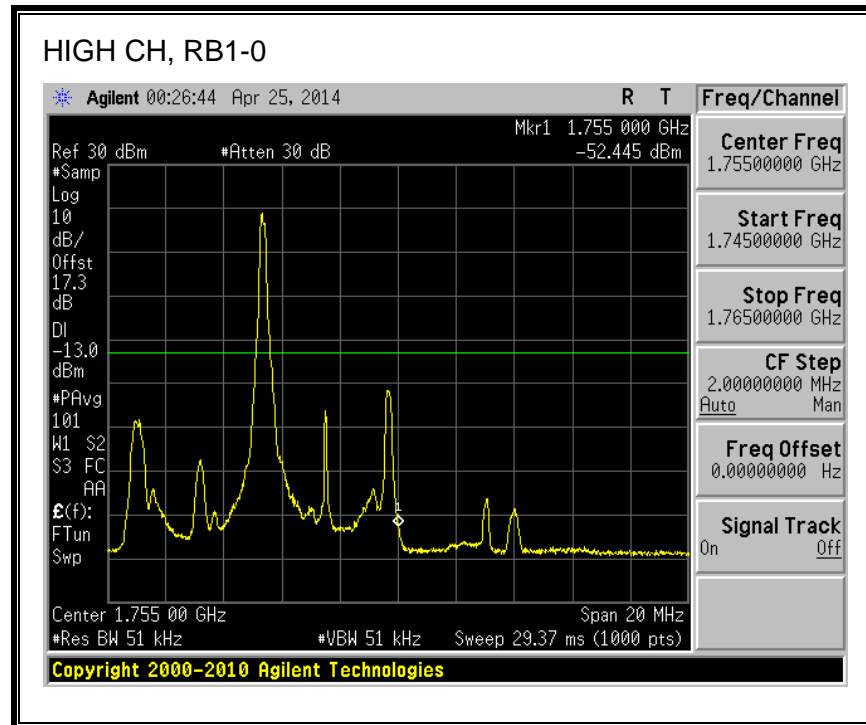
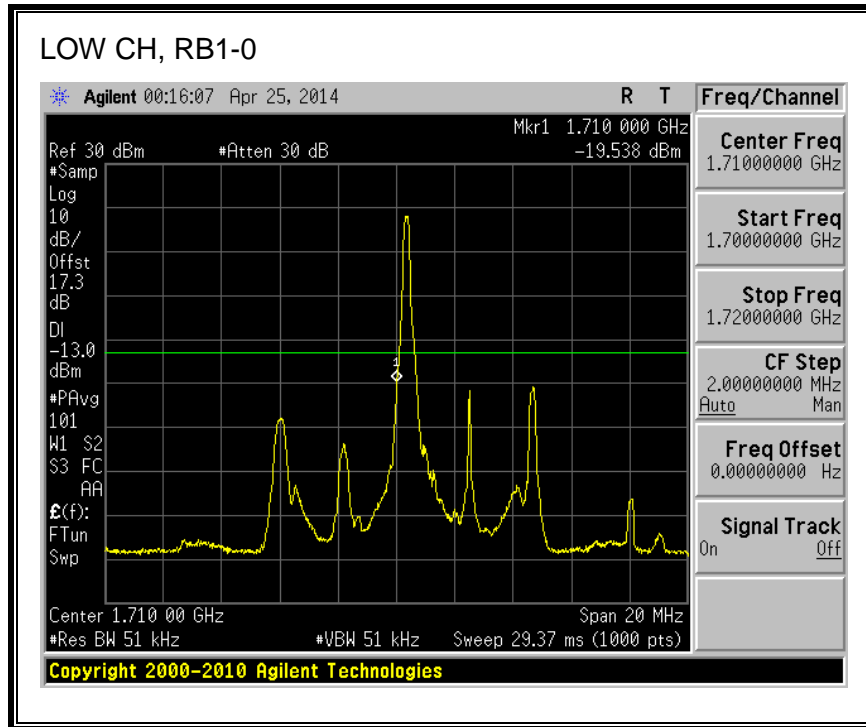


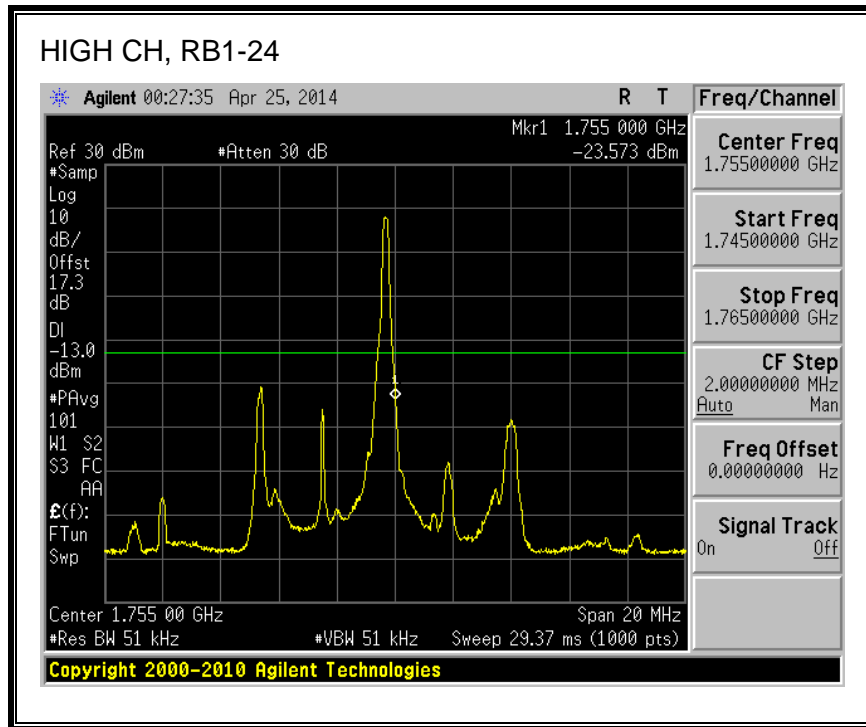
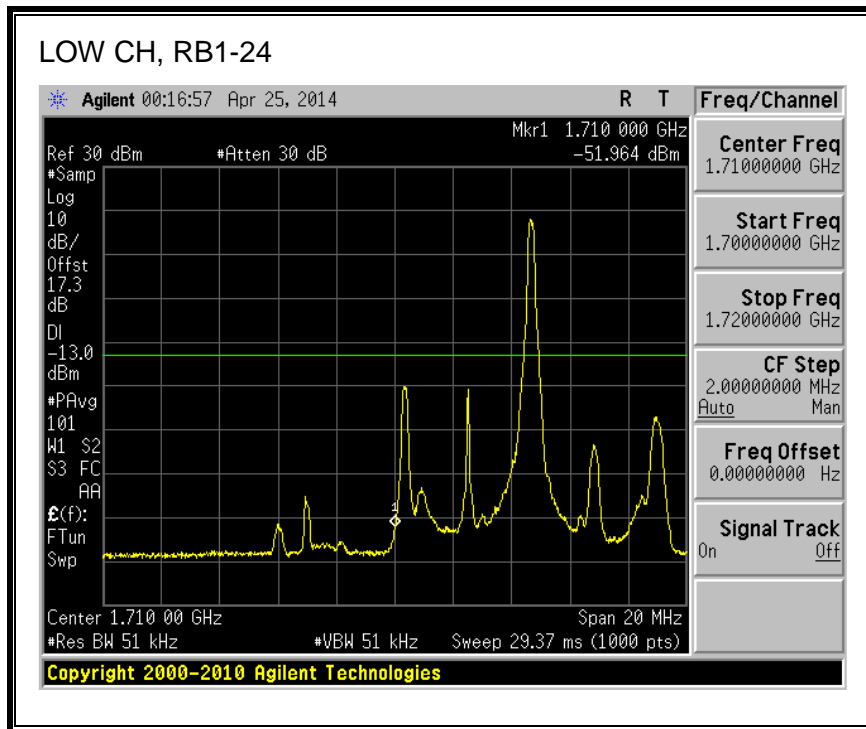


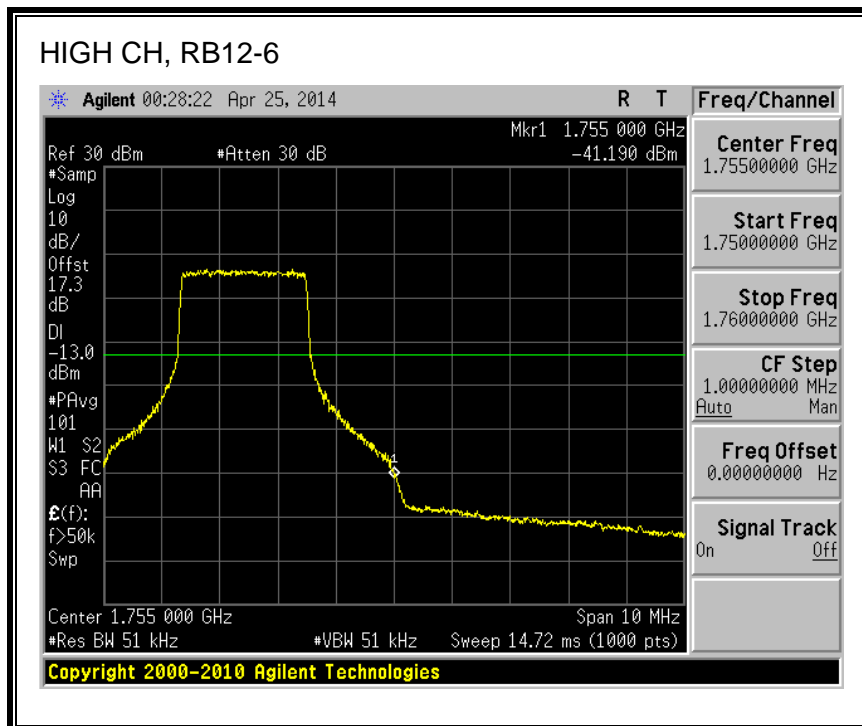
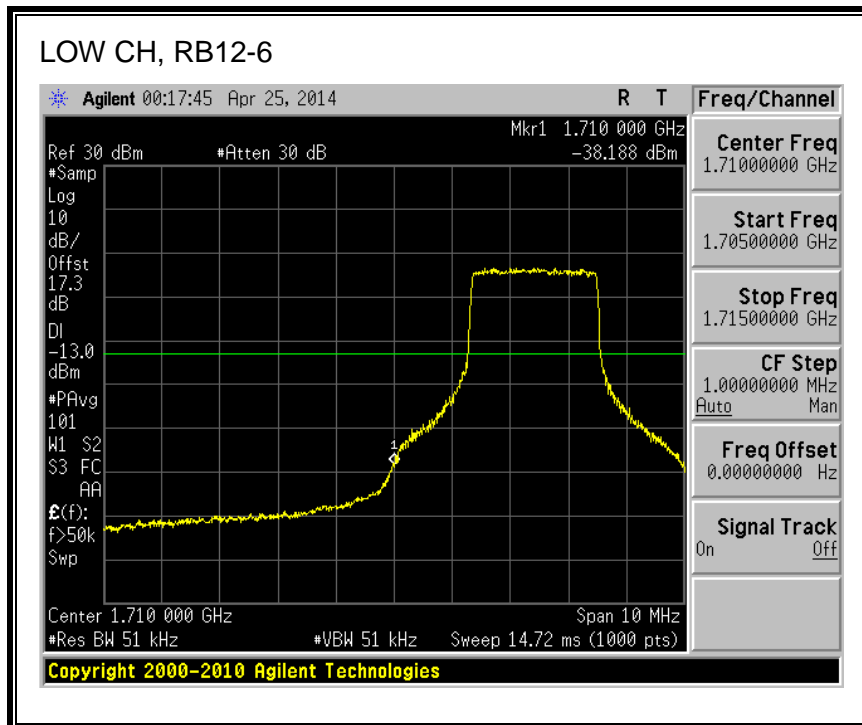


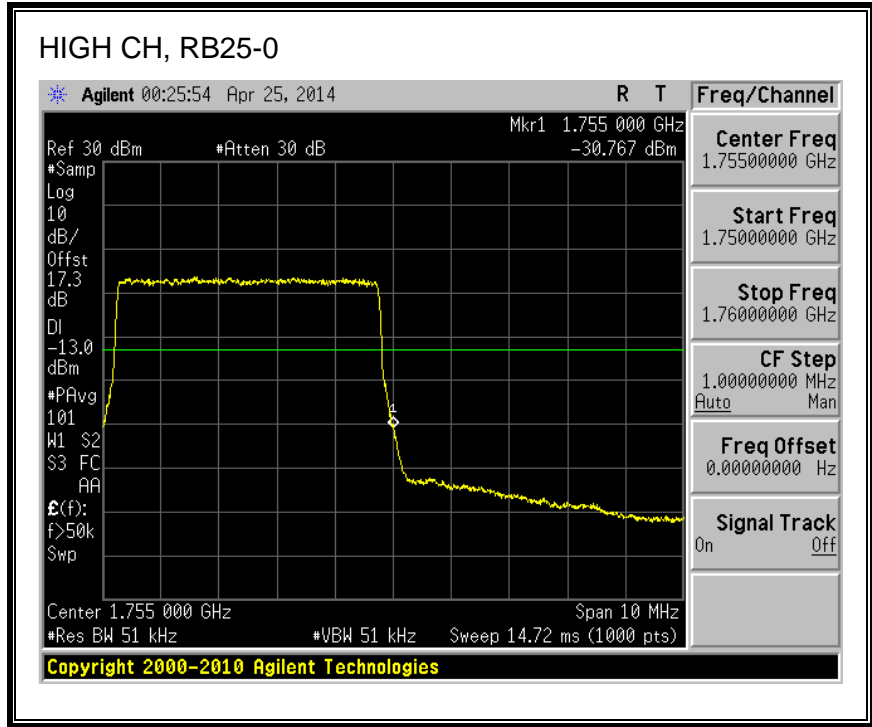
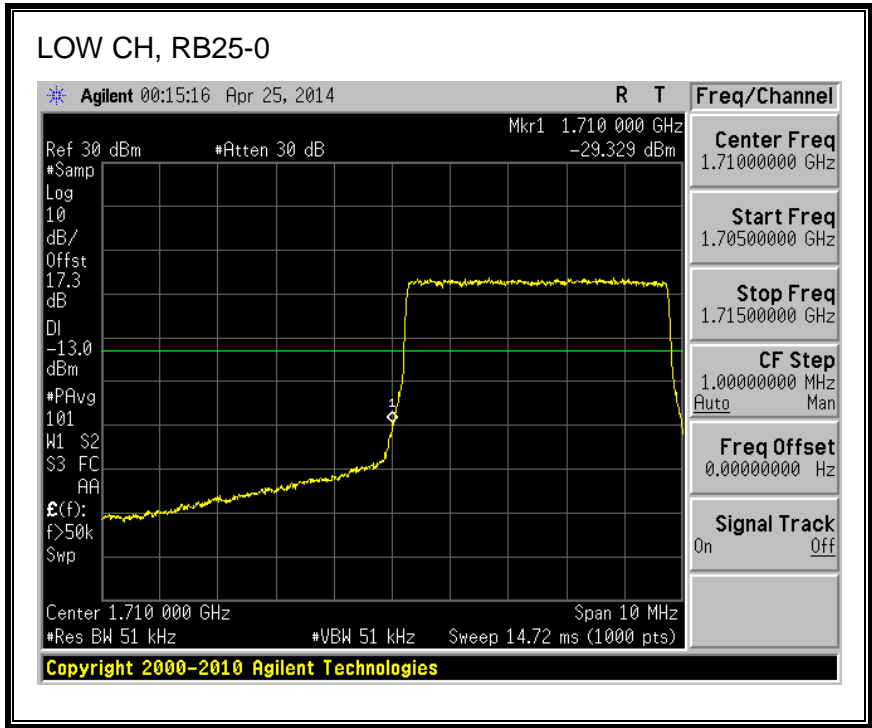


16QAM, (5.0 MHz BAND WIDTH)

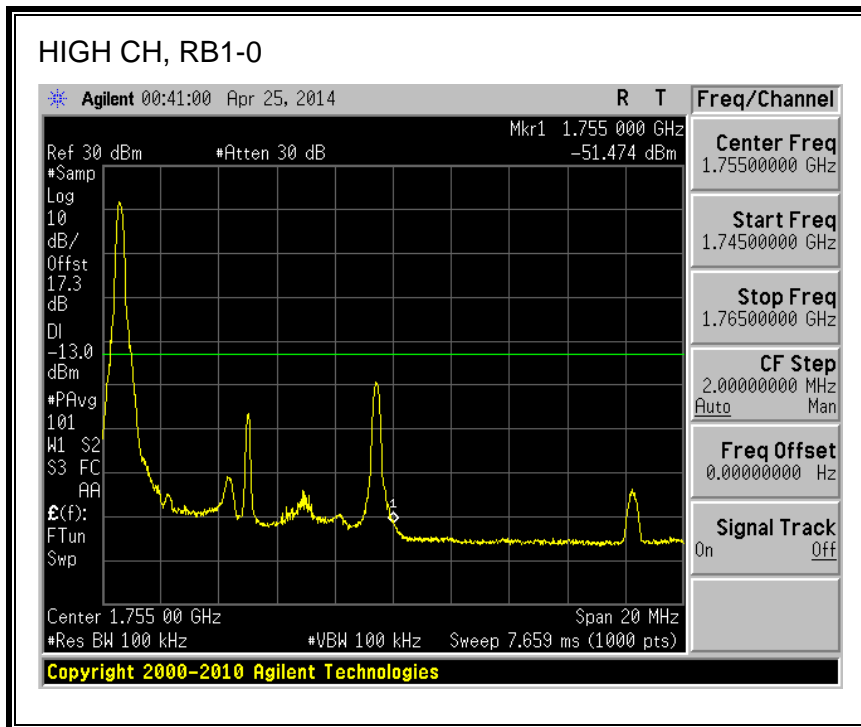
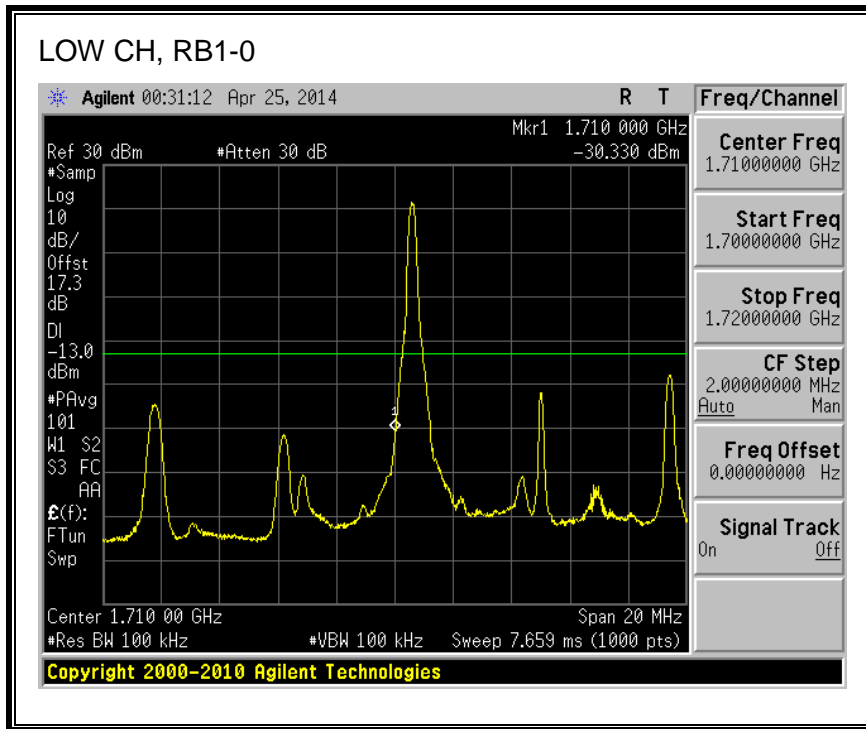


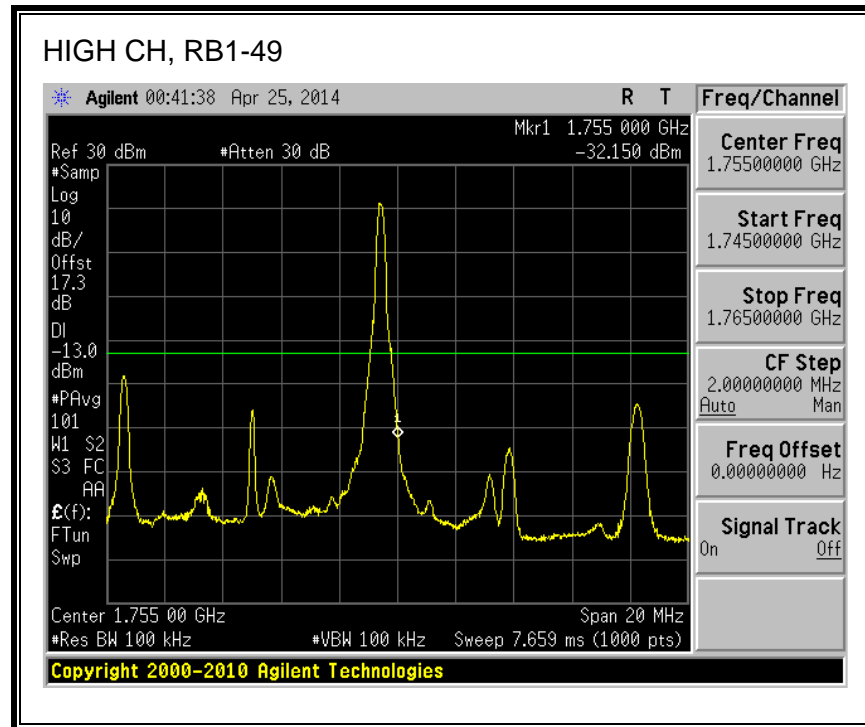
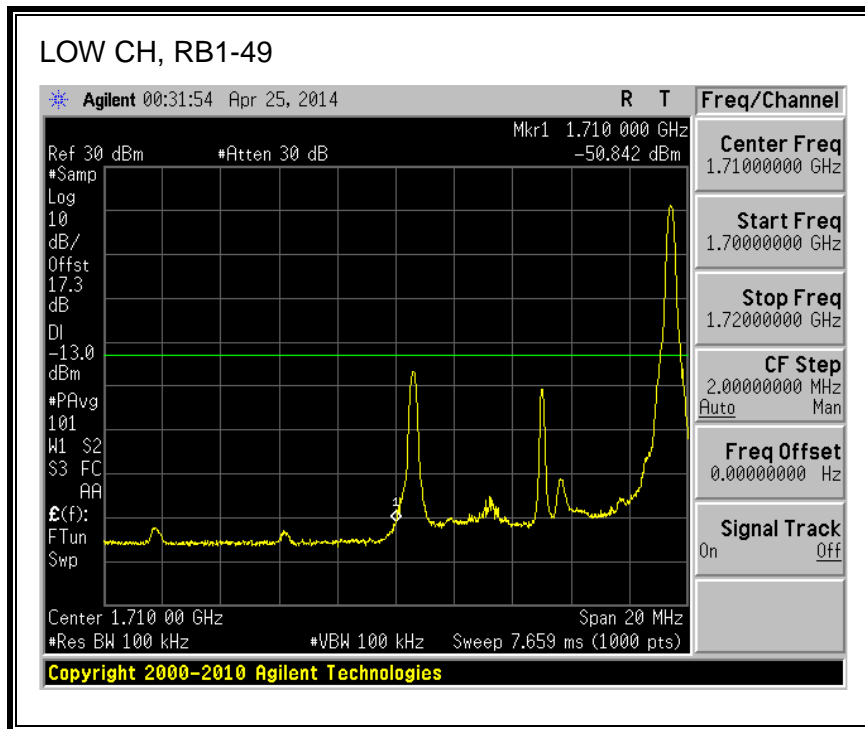


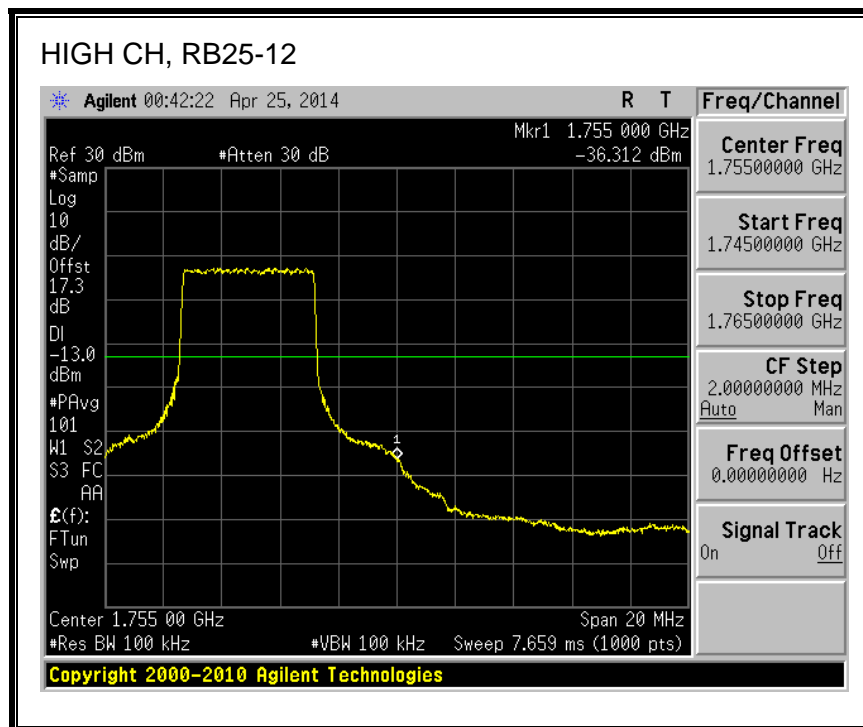
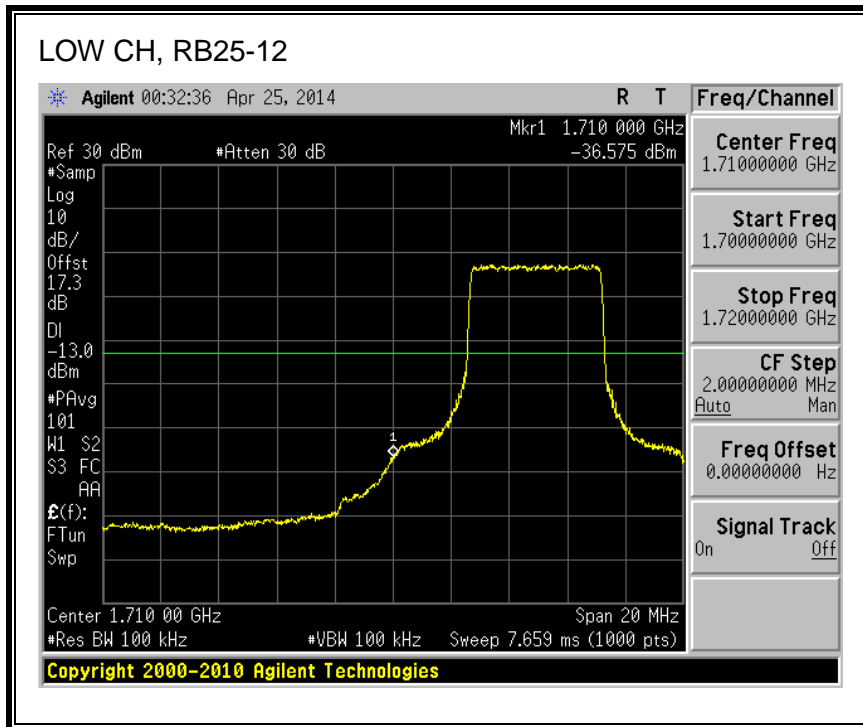


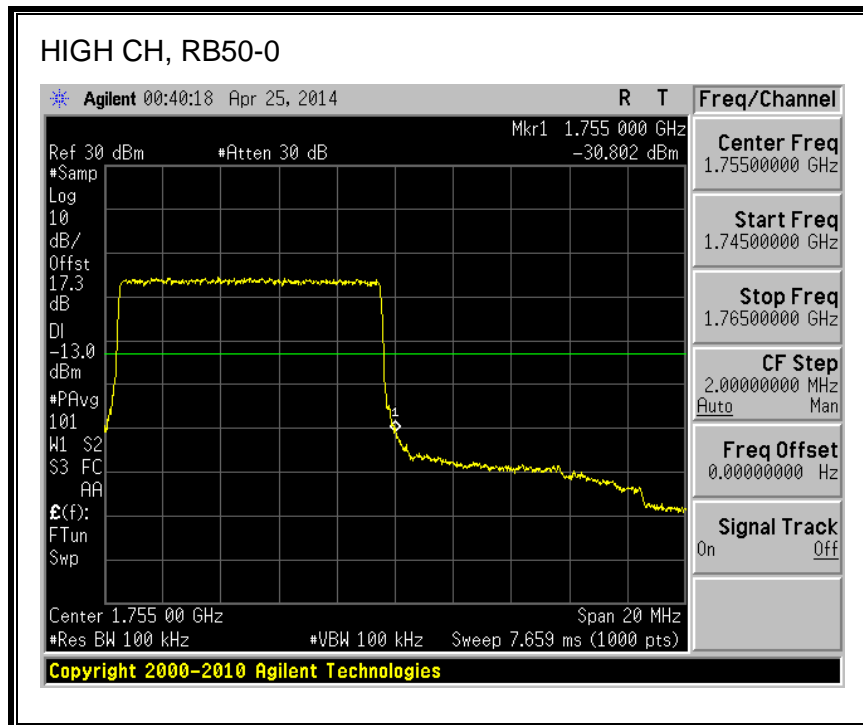
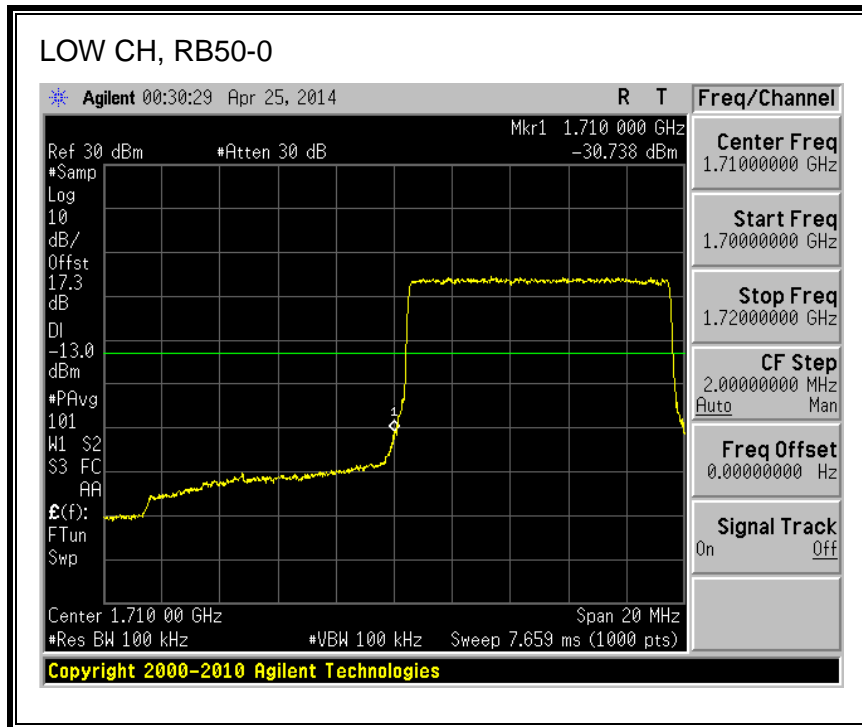


QPSK, (10.0 MHz BAND WIDTH)

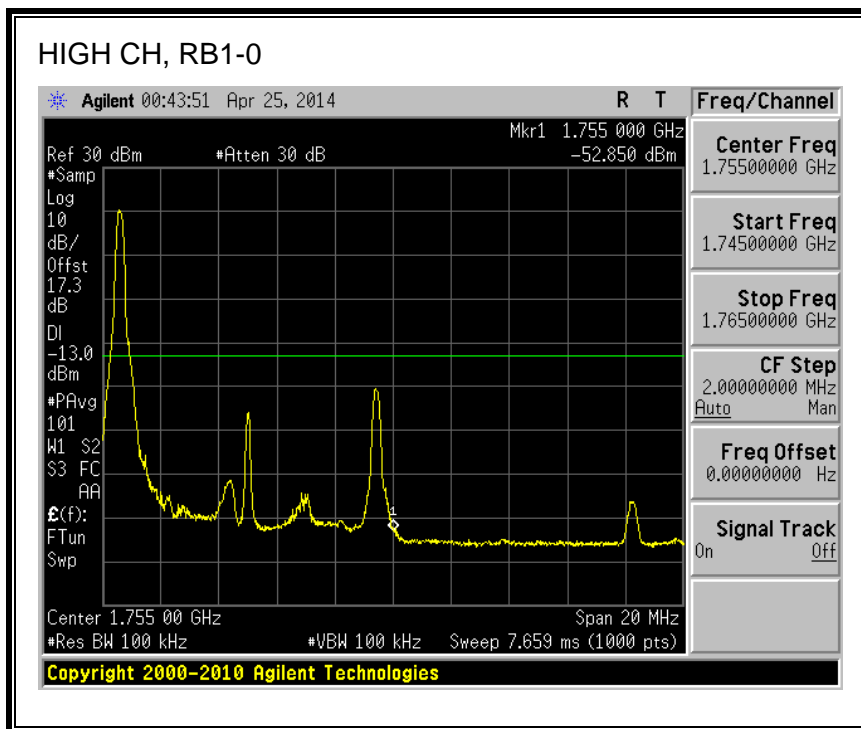
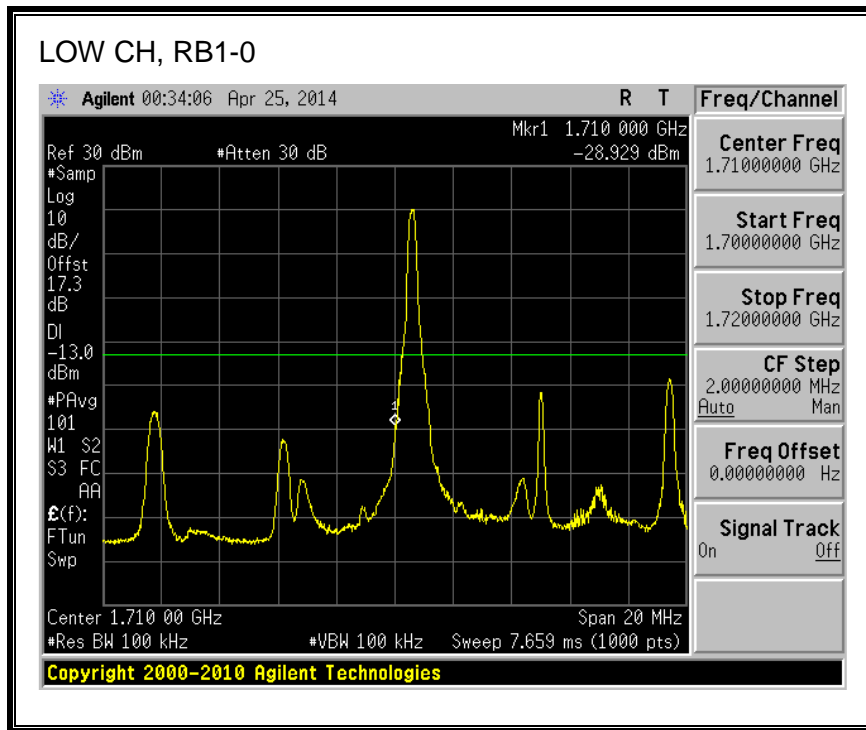


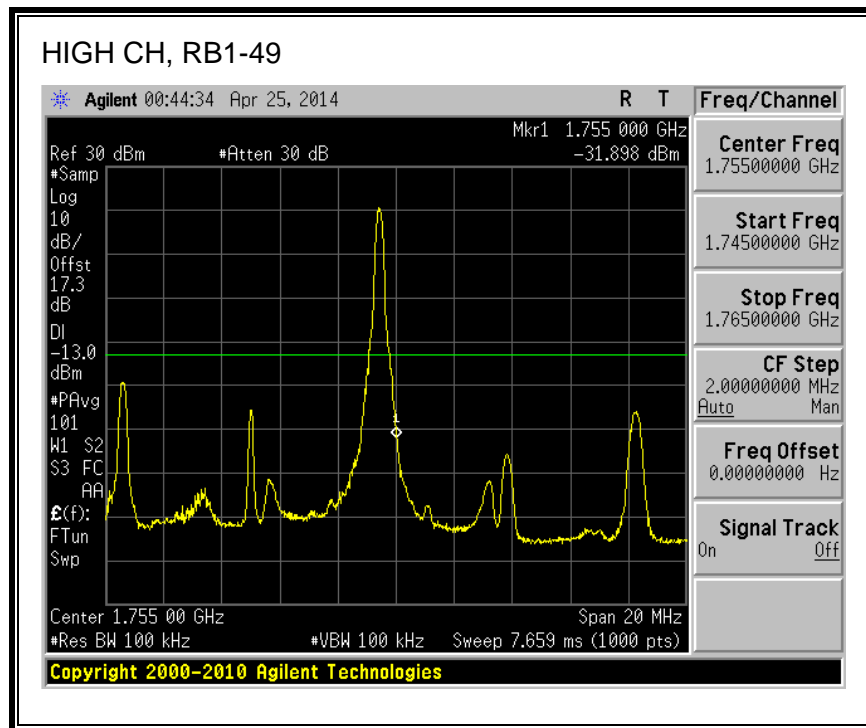
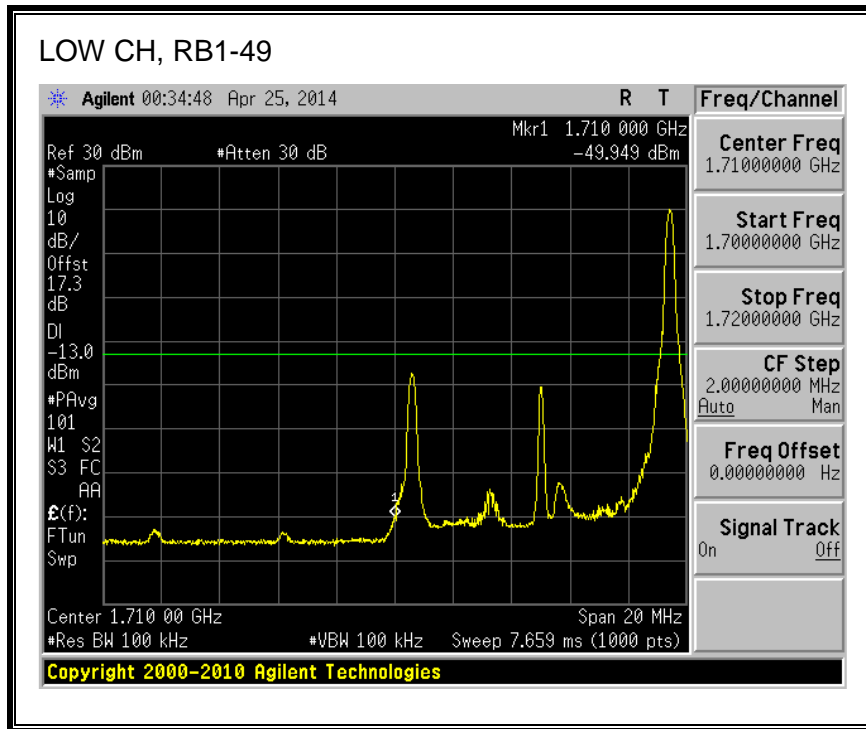


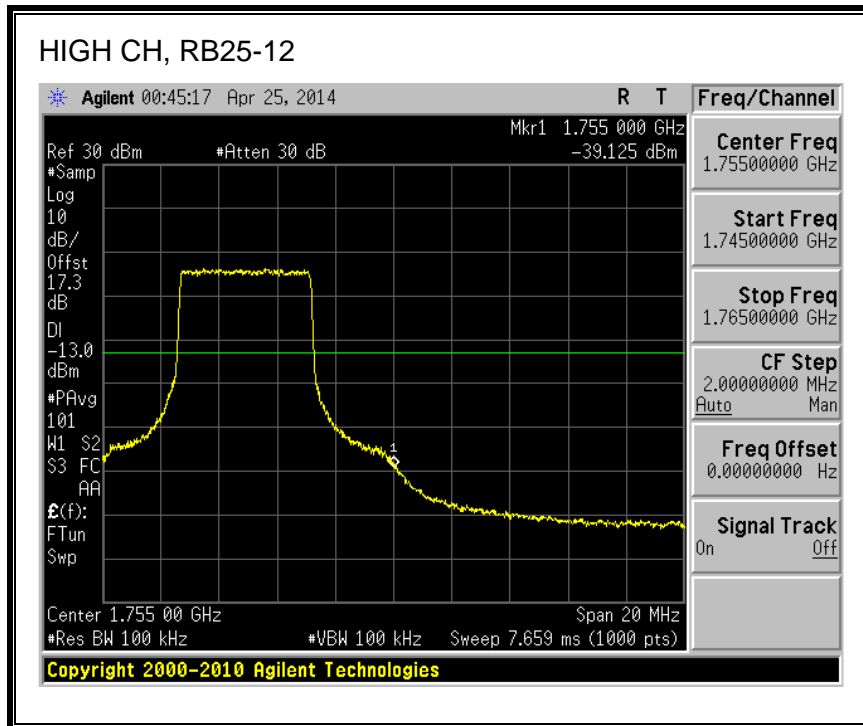
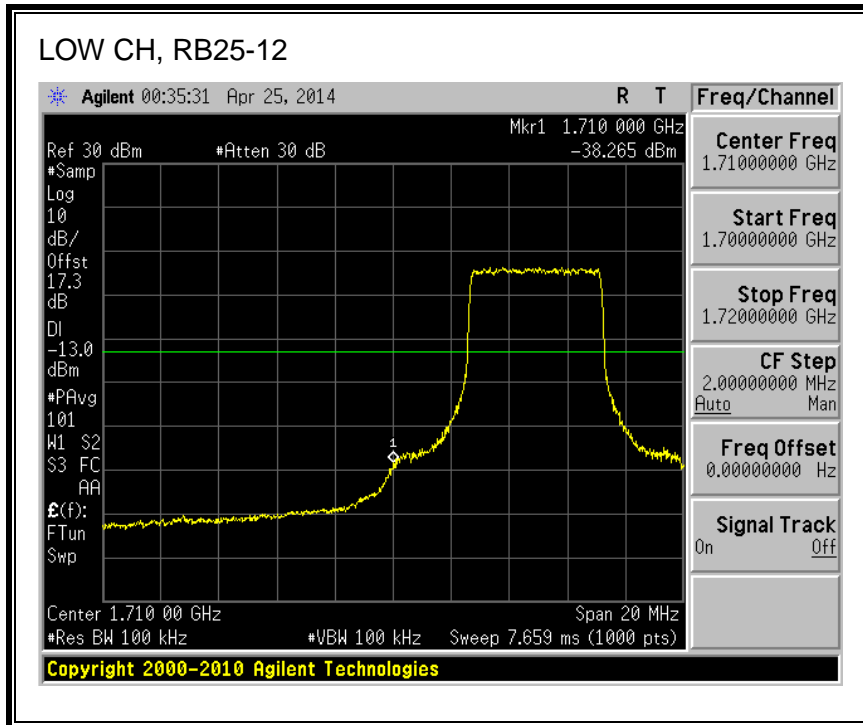


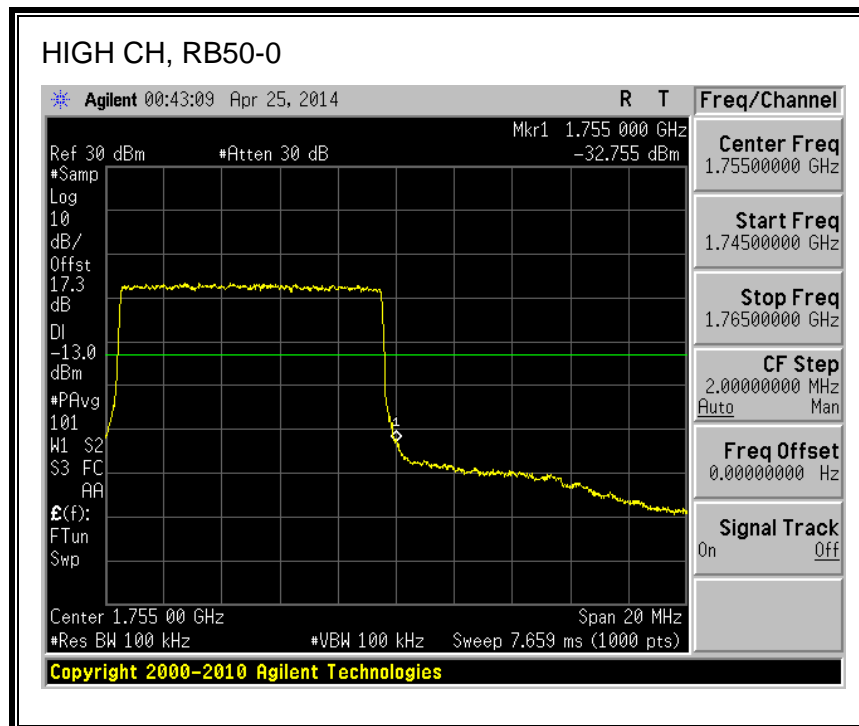
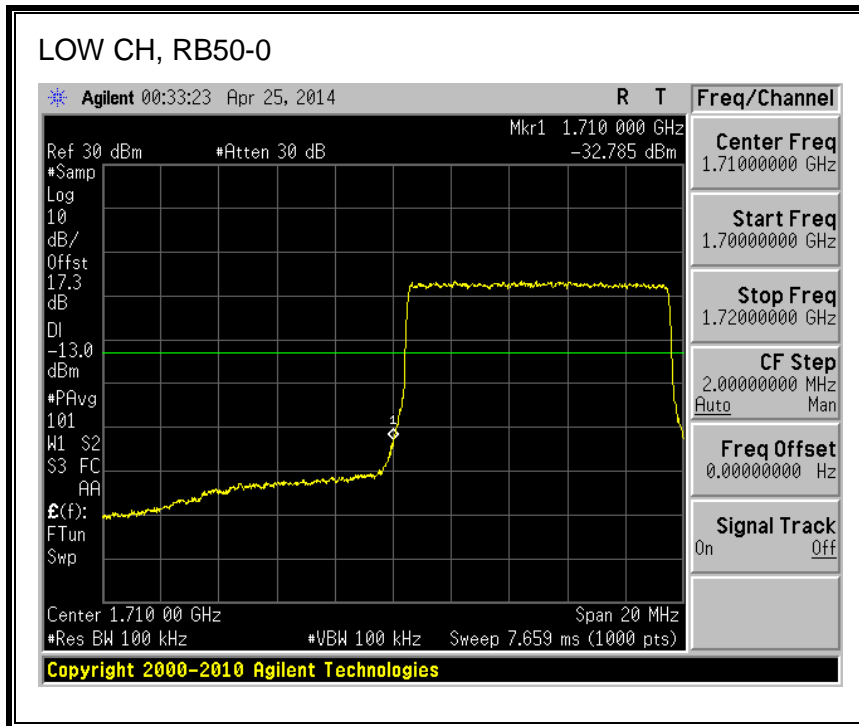


16QAM, (10.0 MHz BAND WIDTH)

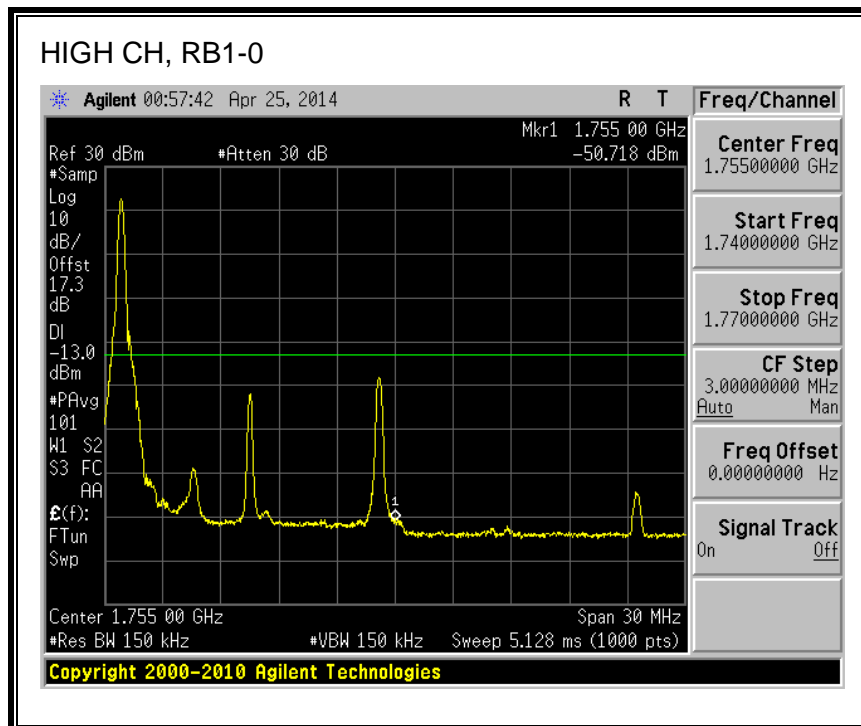
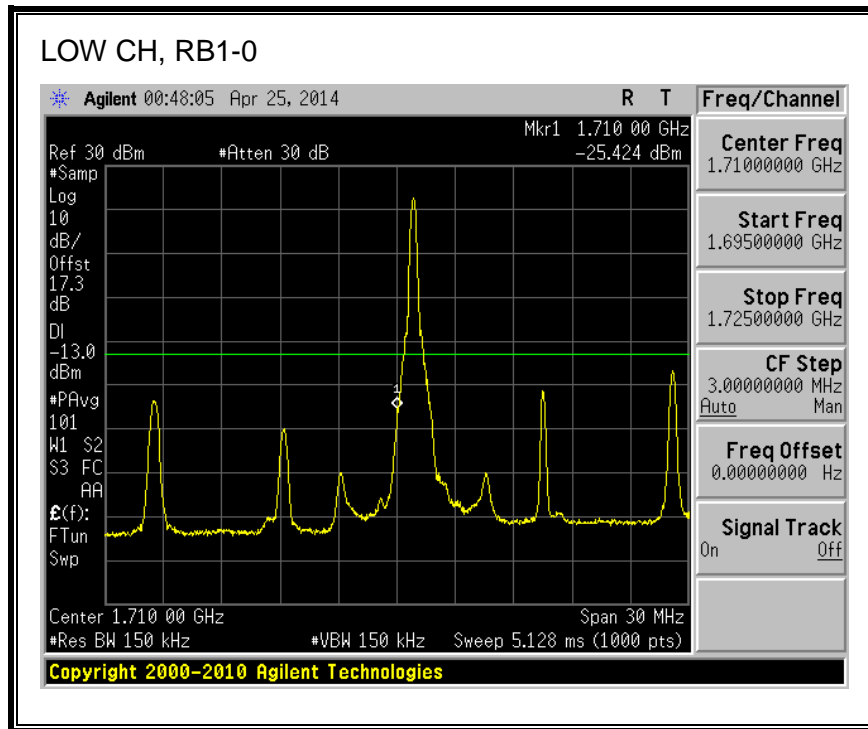


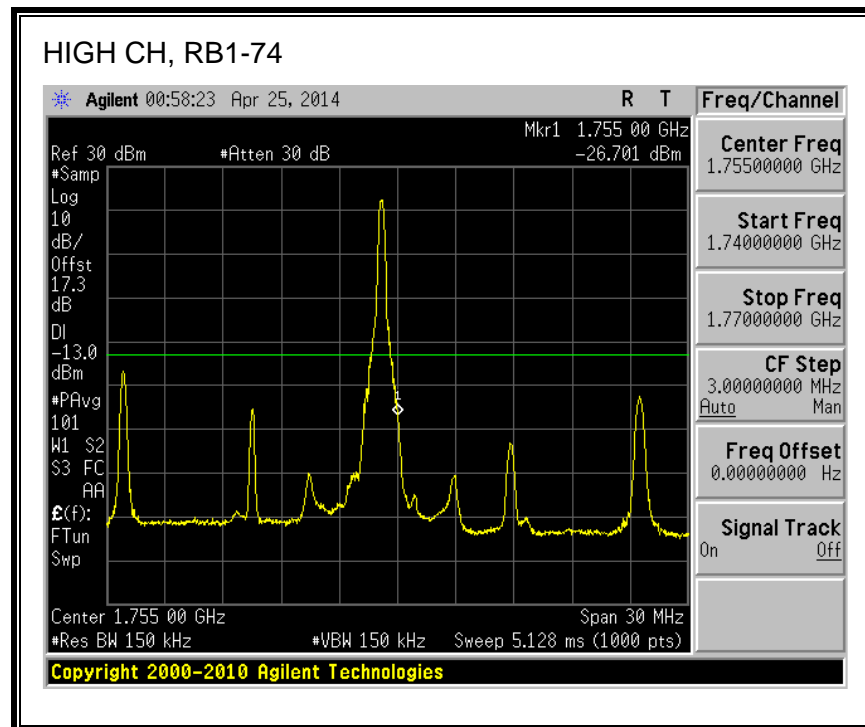
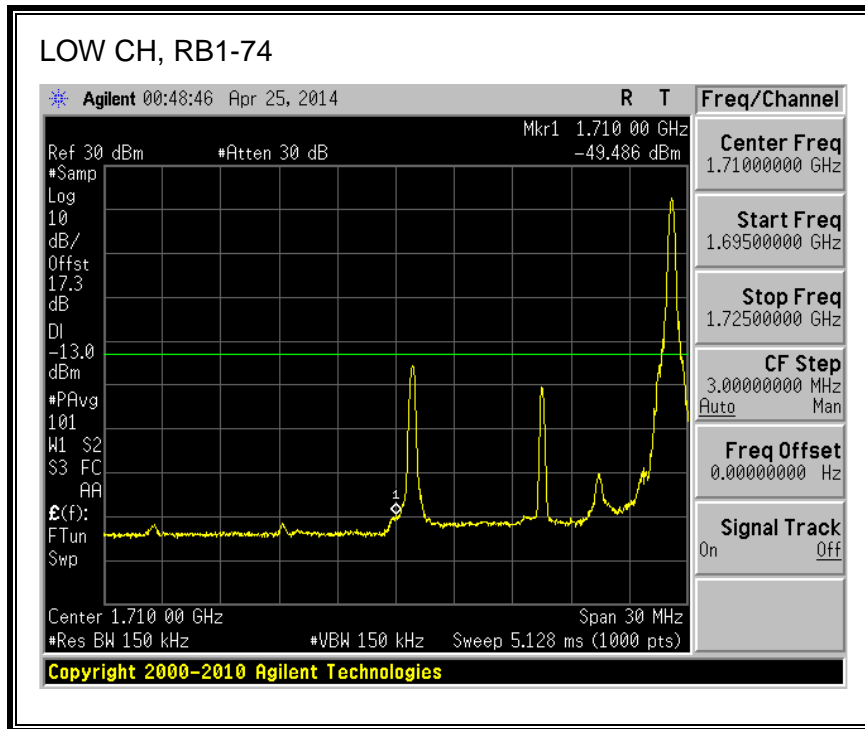


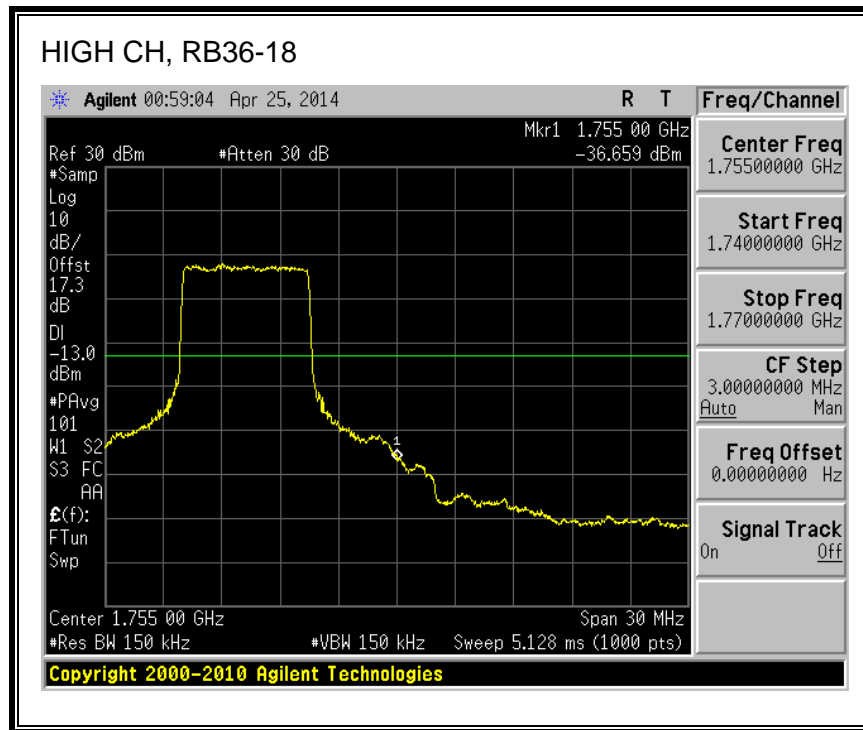
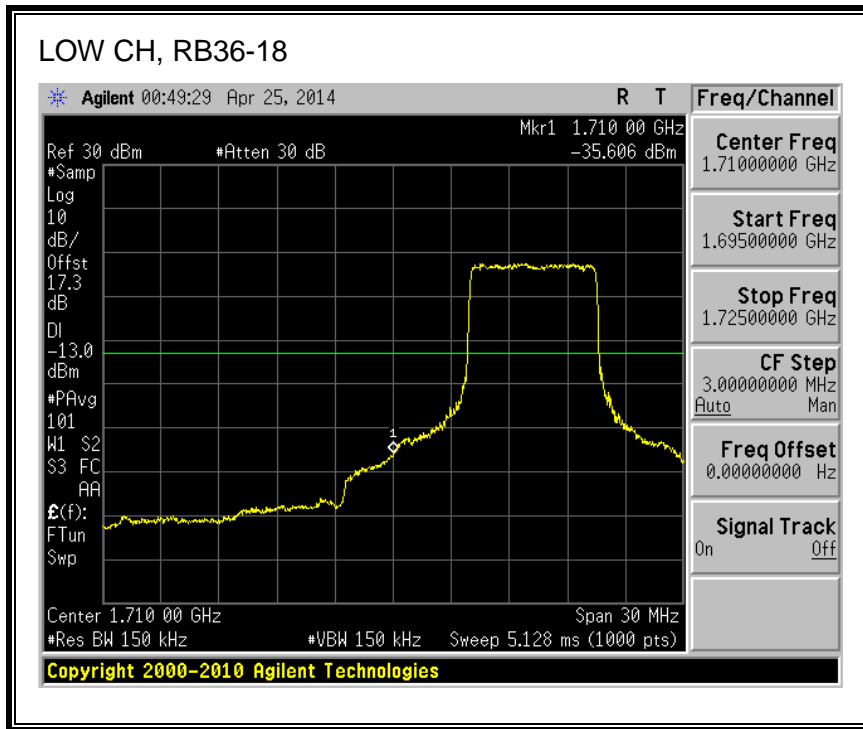


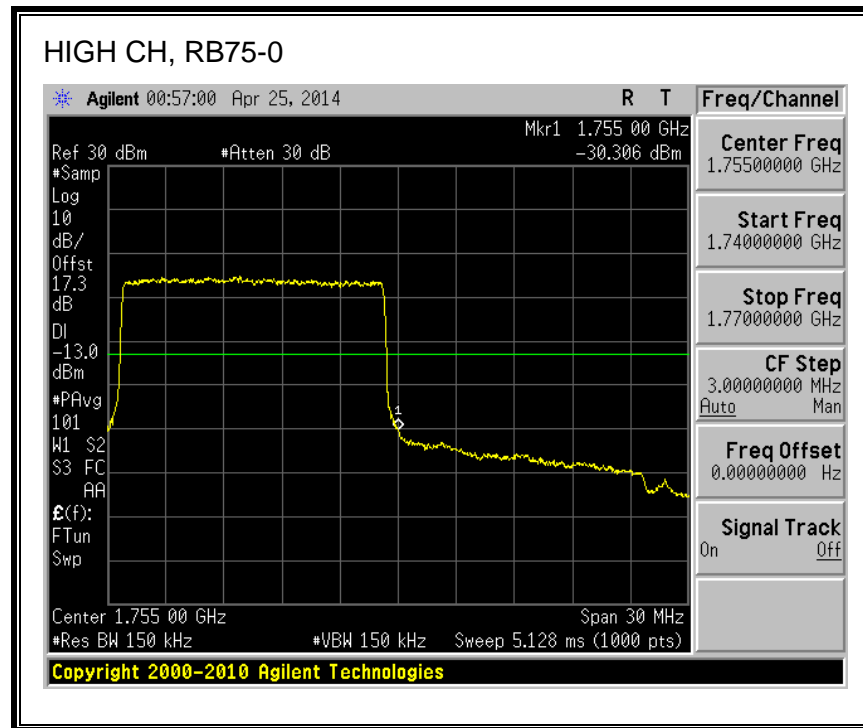
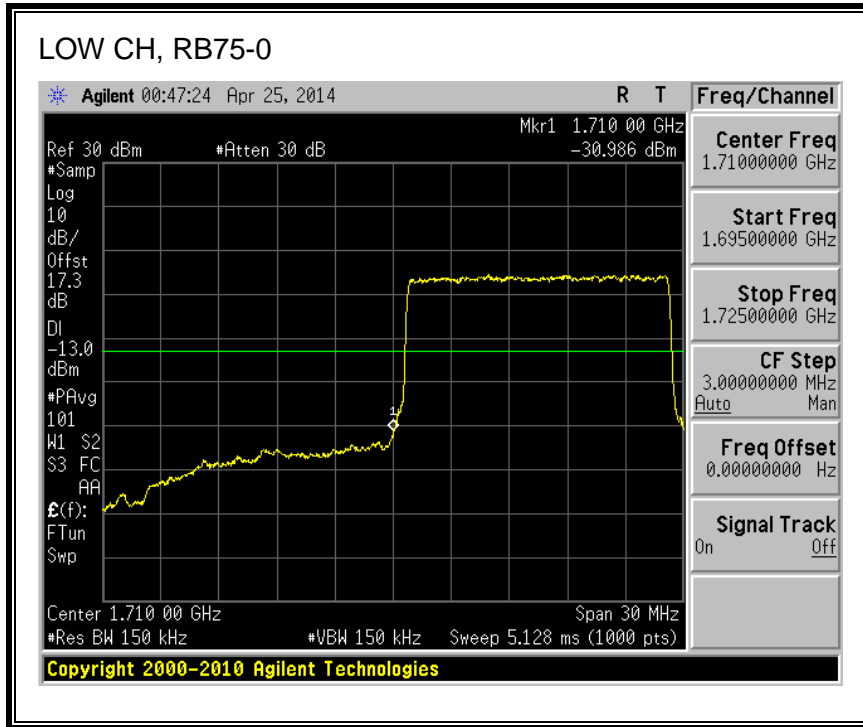


QPSK, (15.0 MHz BAND WIDTH)

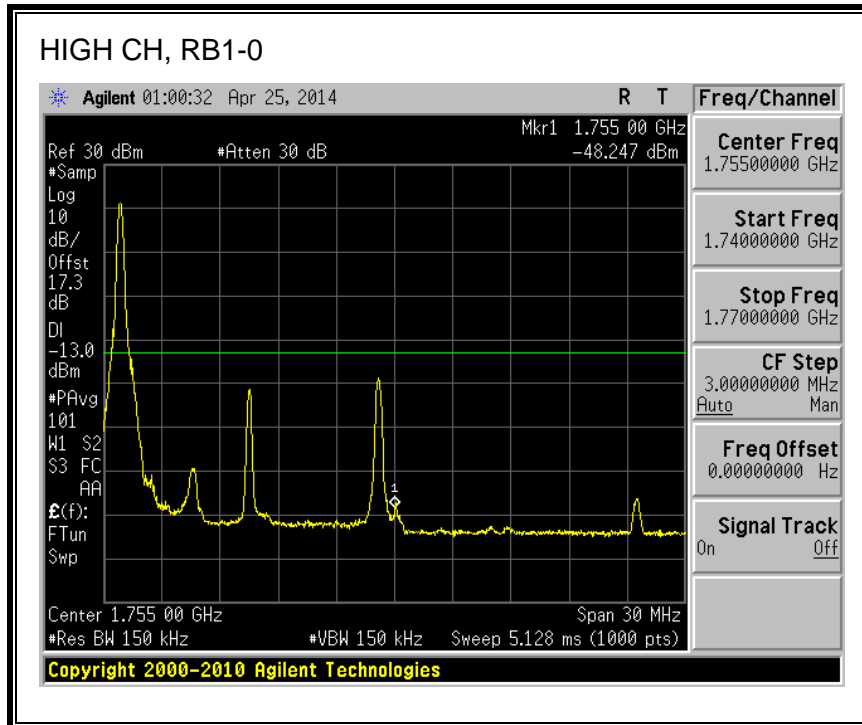
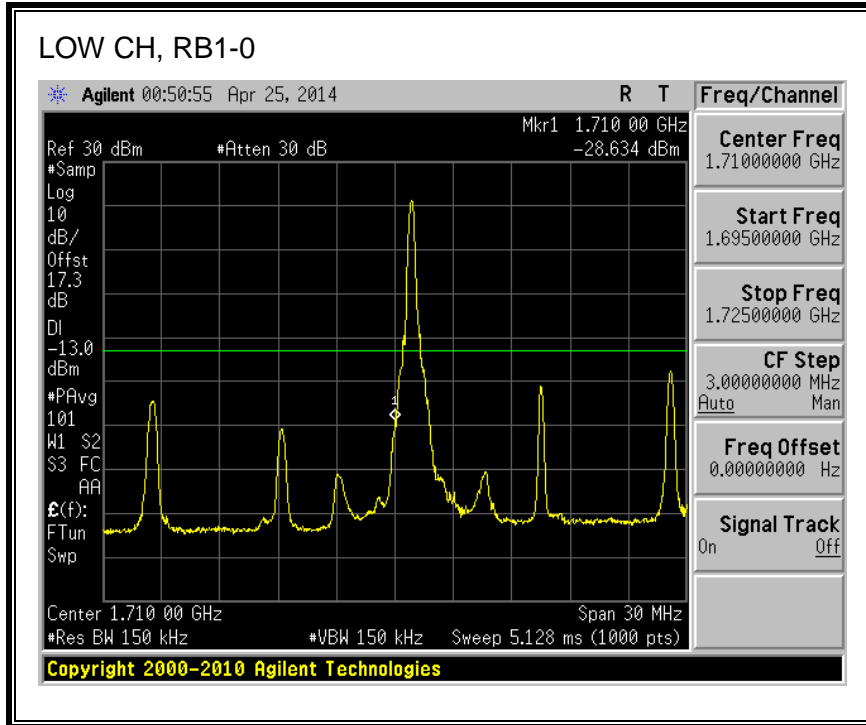


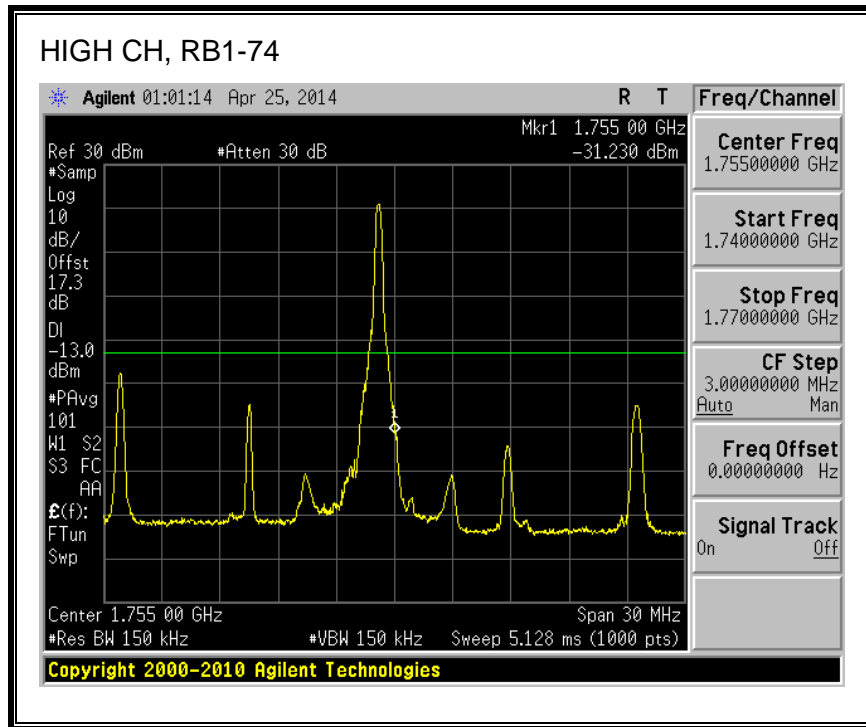
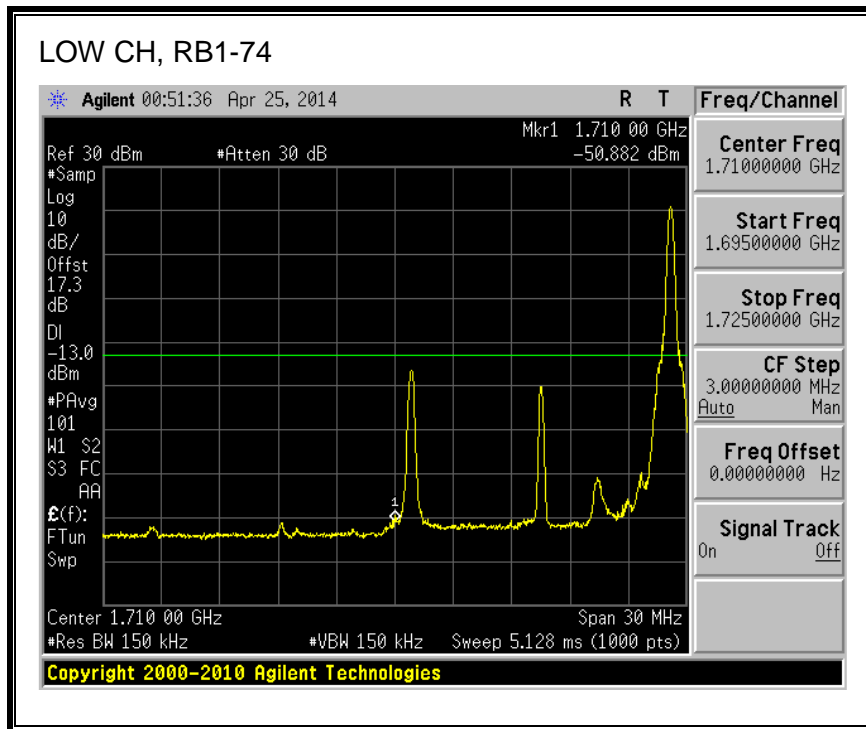


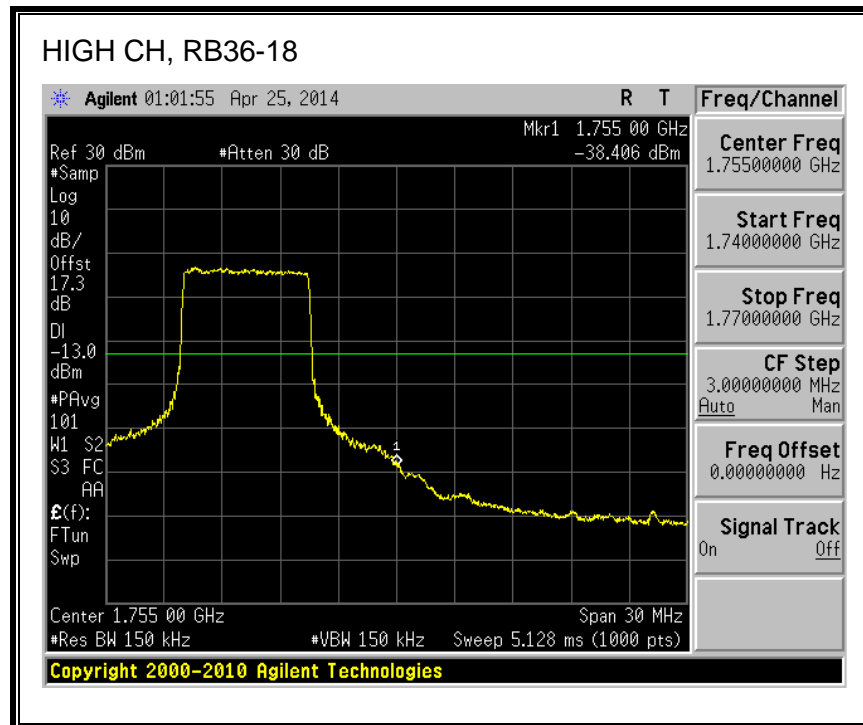
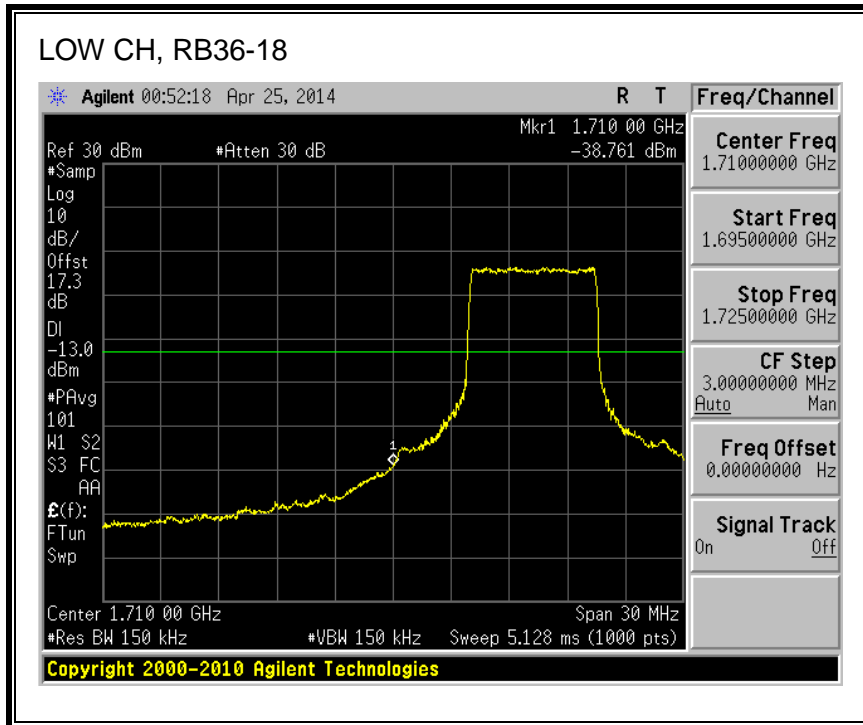


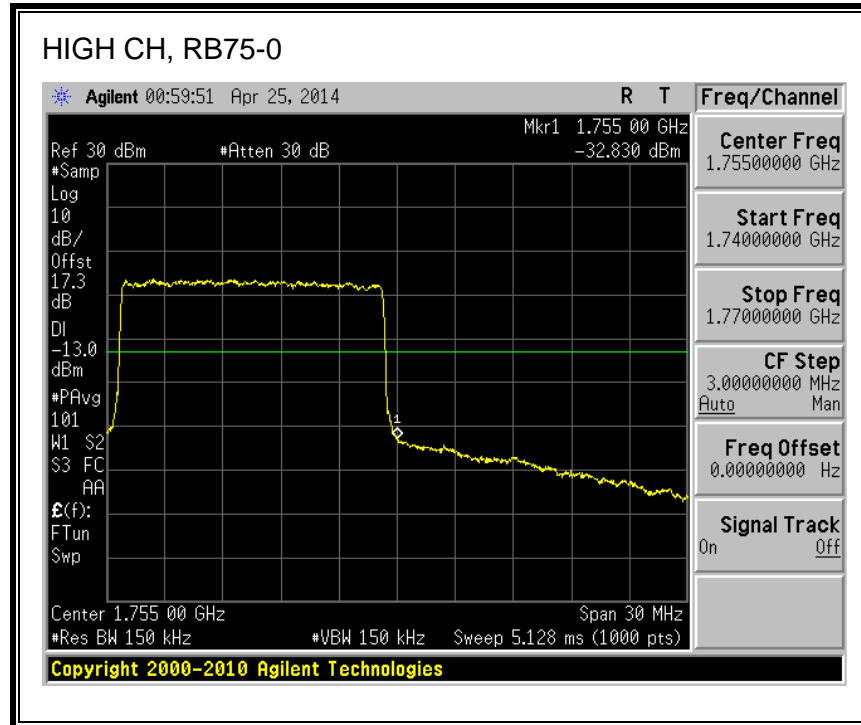
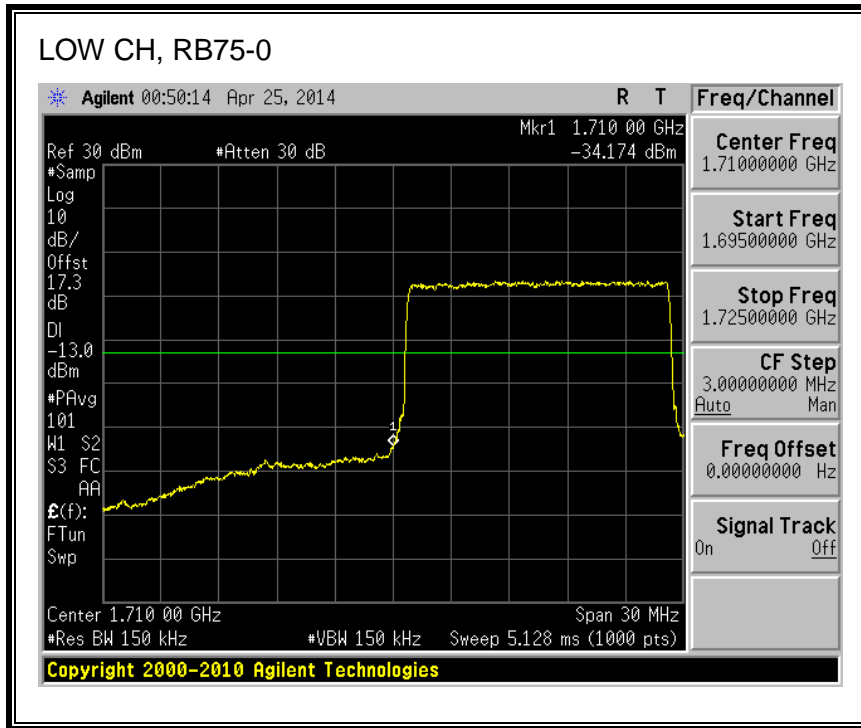


16QAM, (15.0 MHz BAND WIDTH)

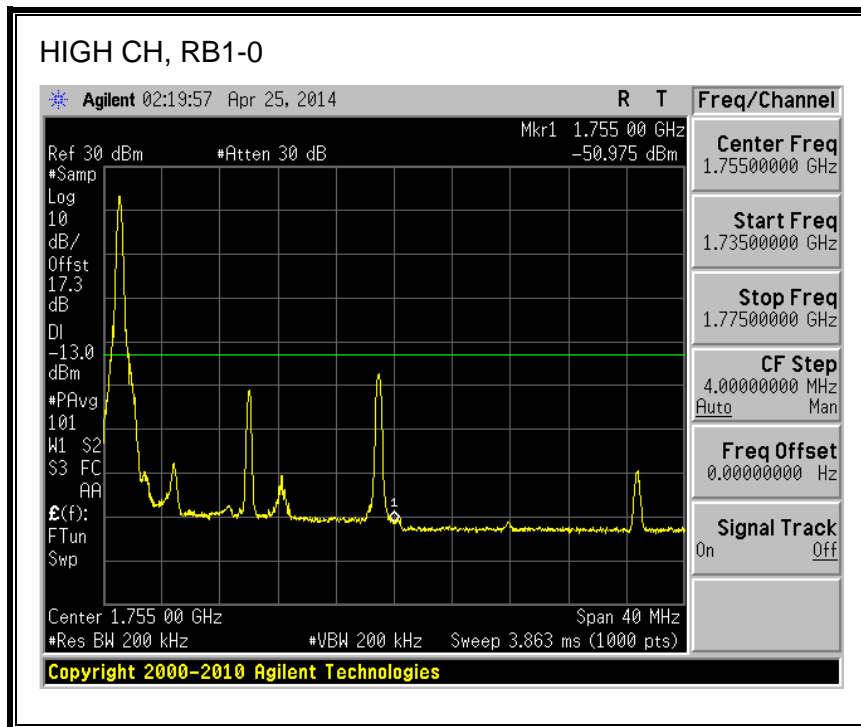
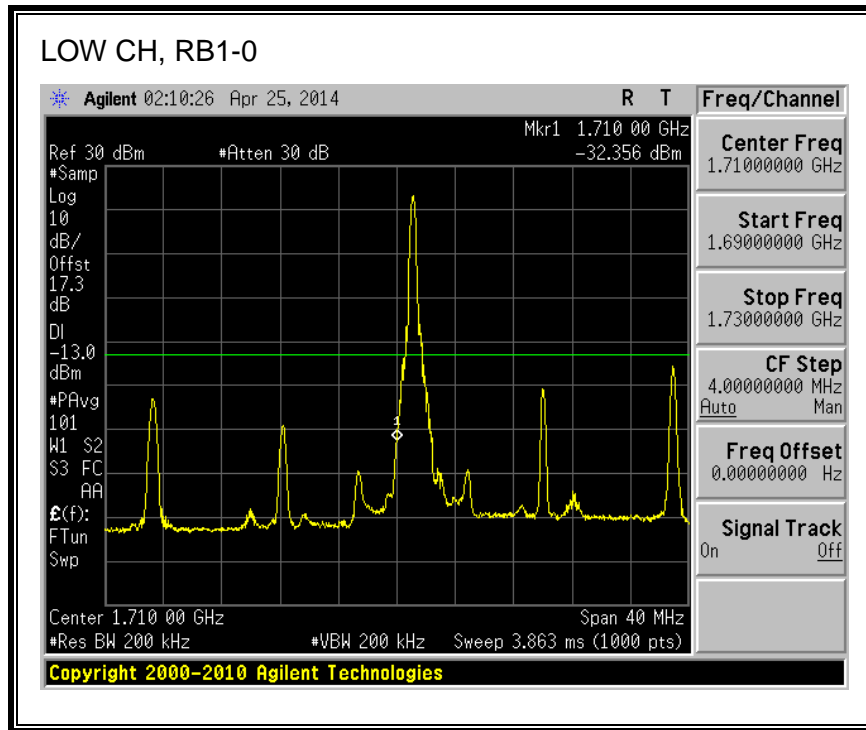


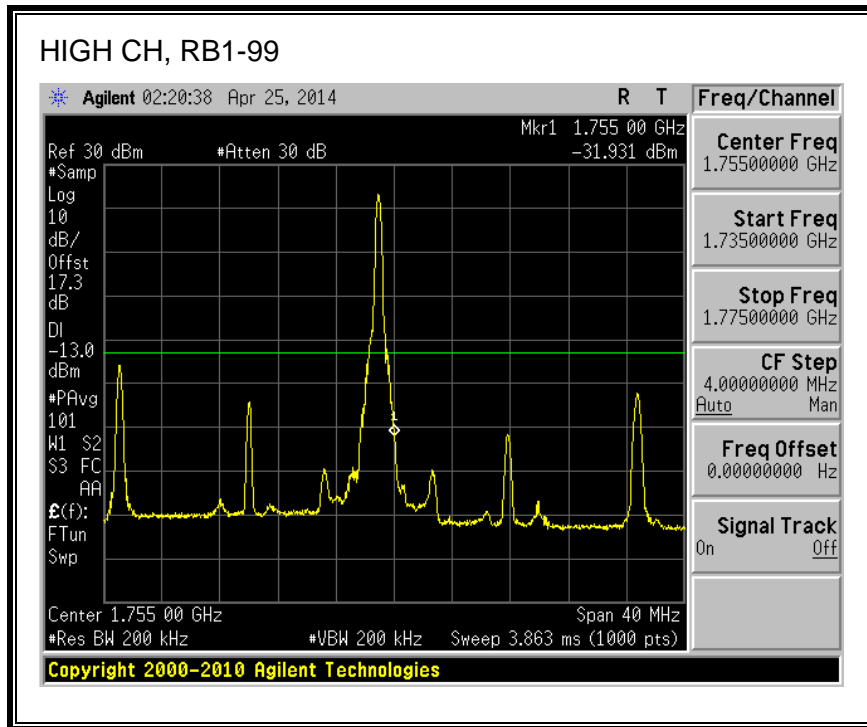
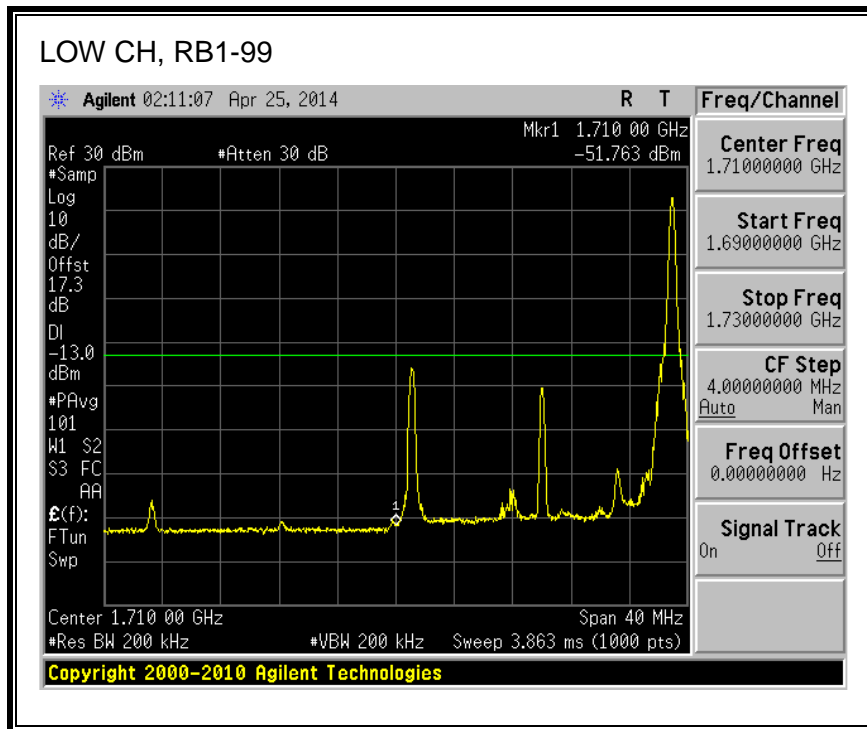


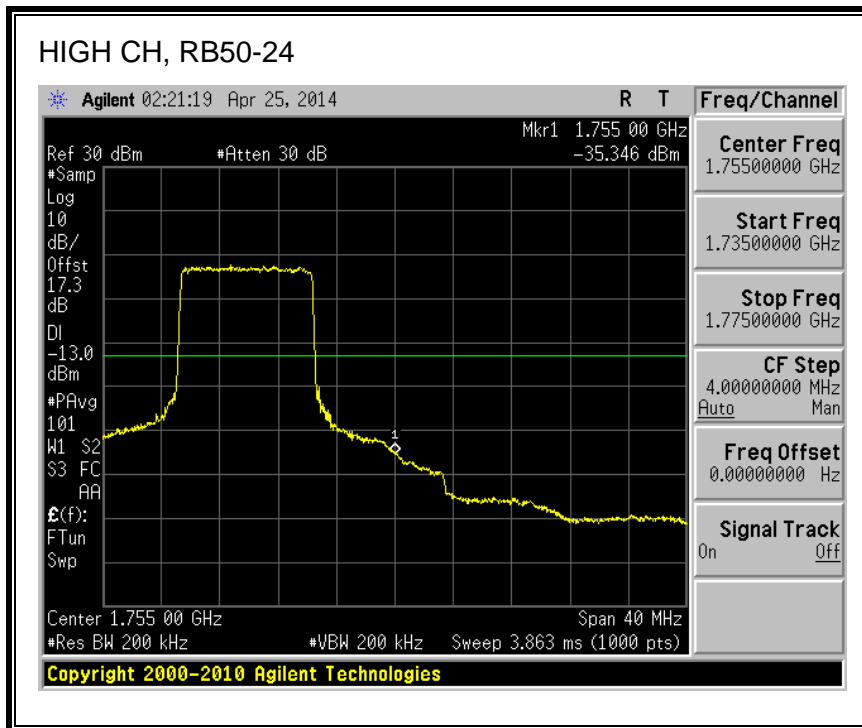
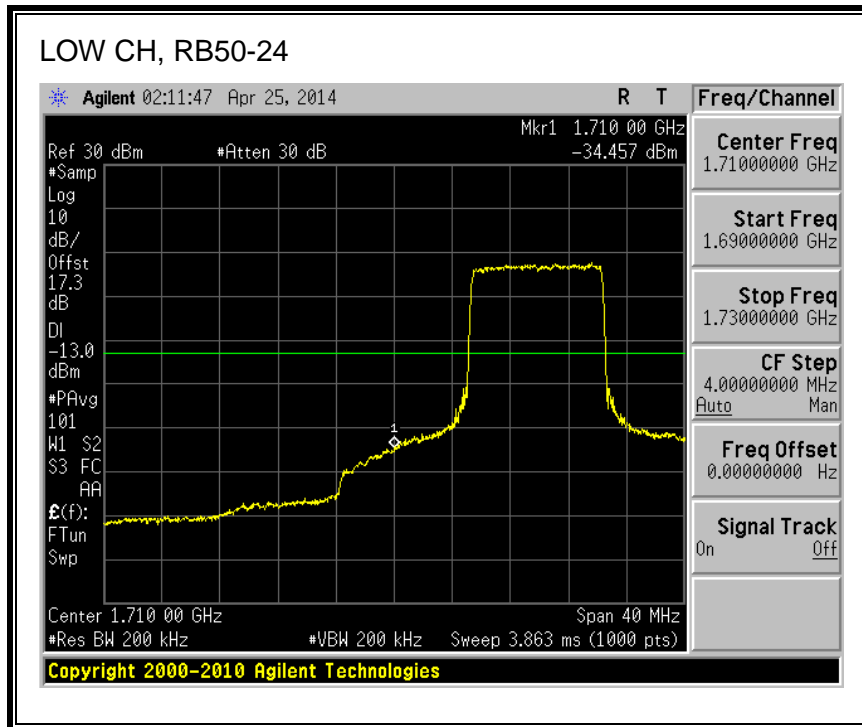


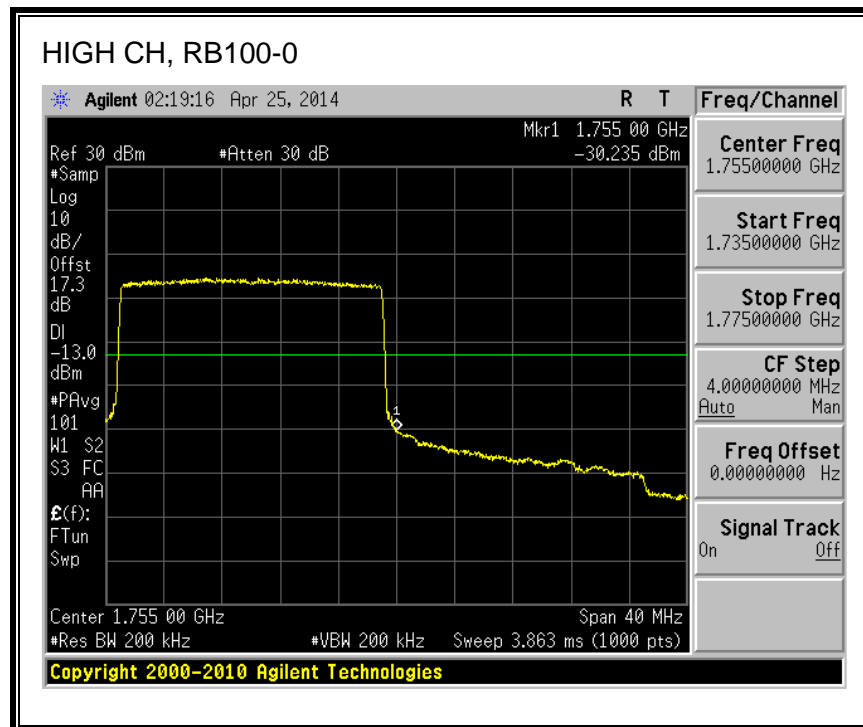
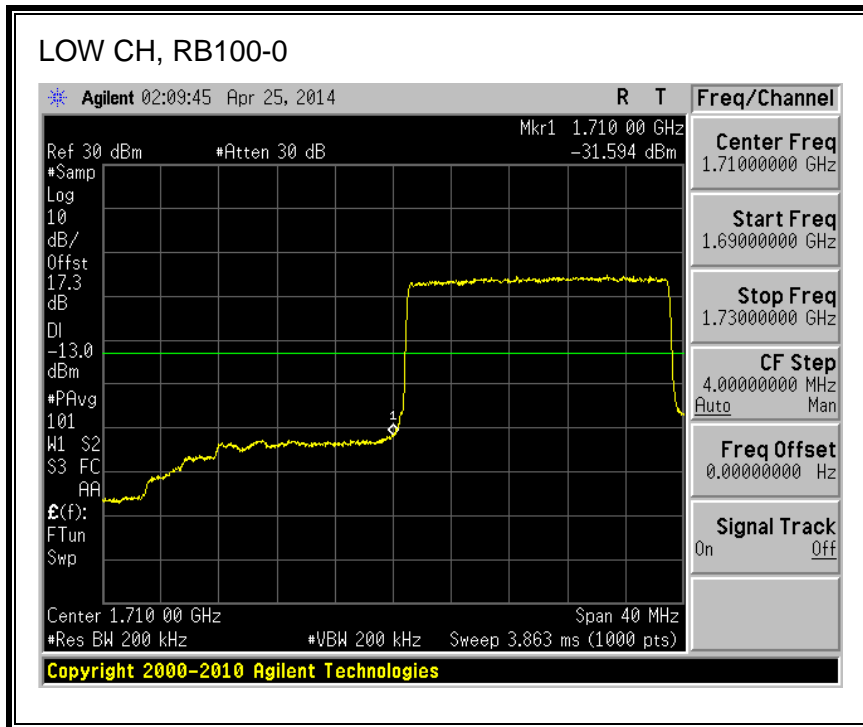


QPSK, (20.0 MHz BAND WIDTH)

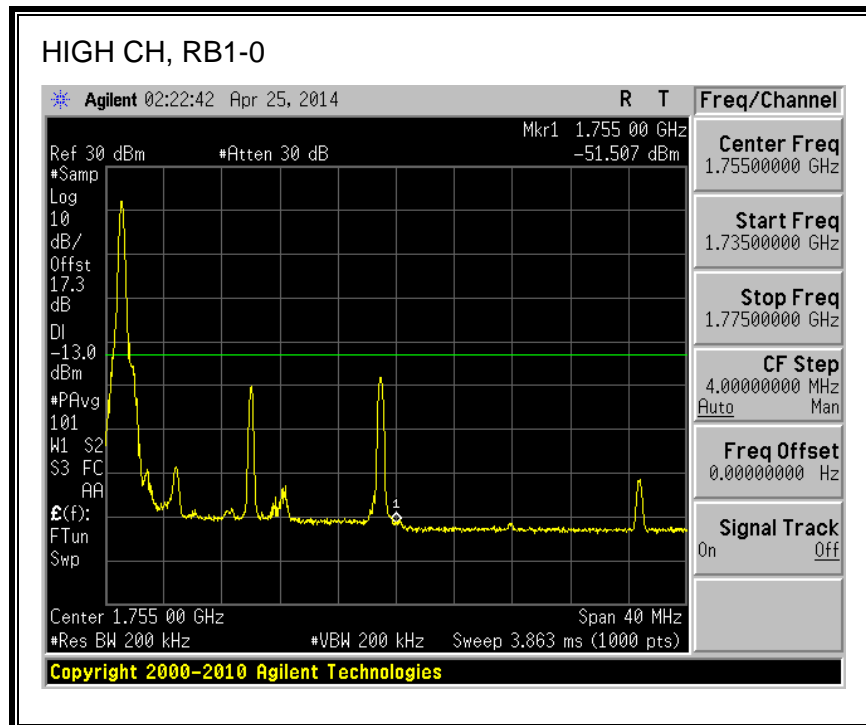
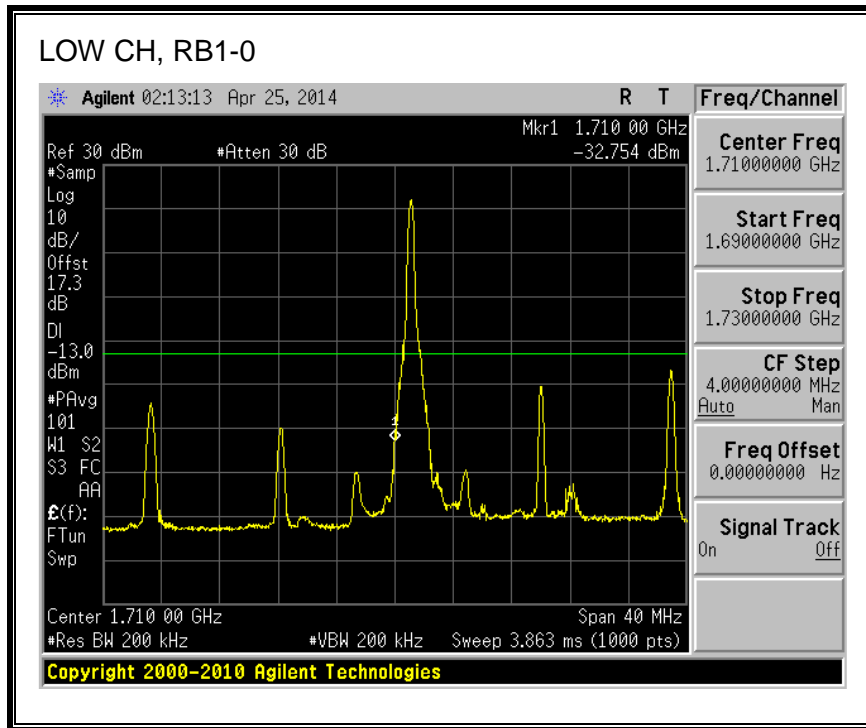


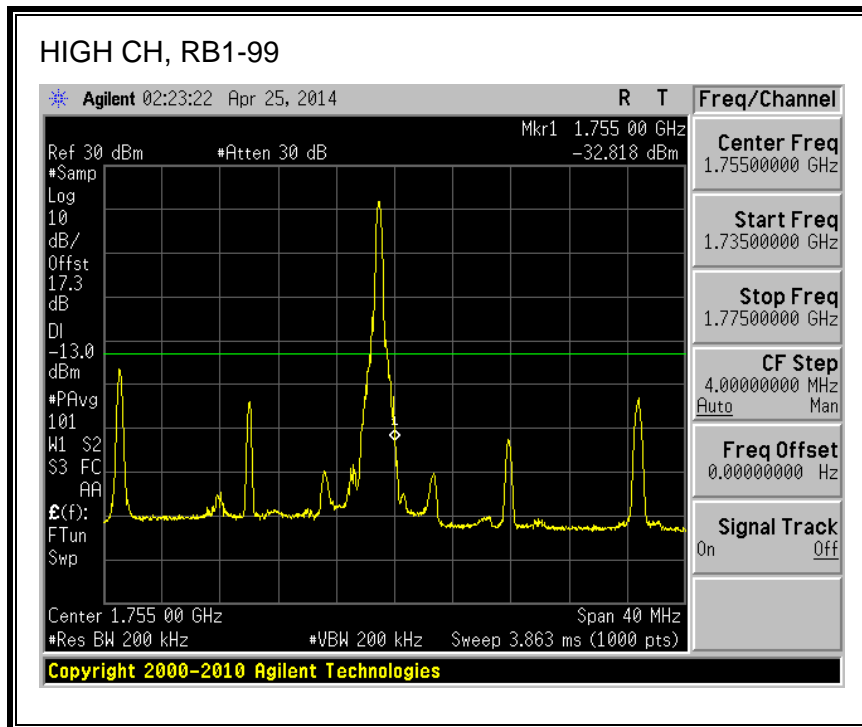
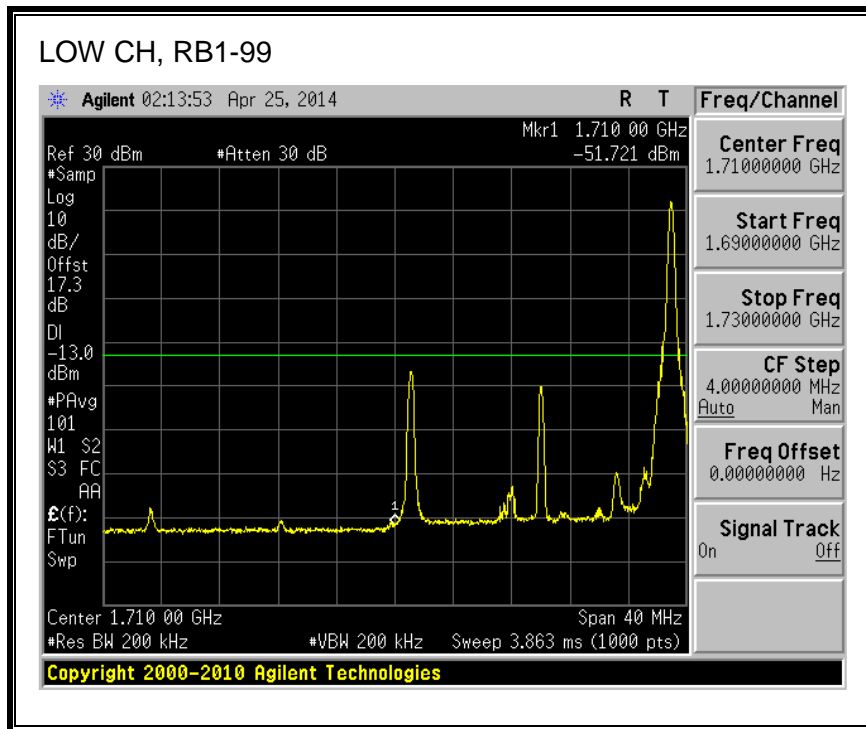


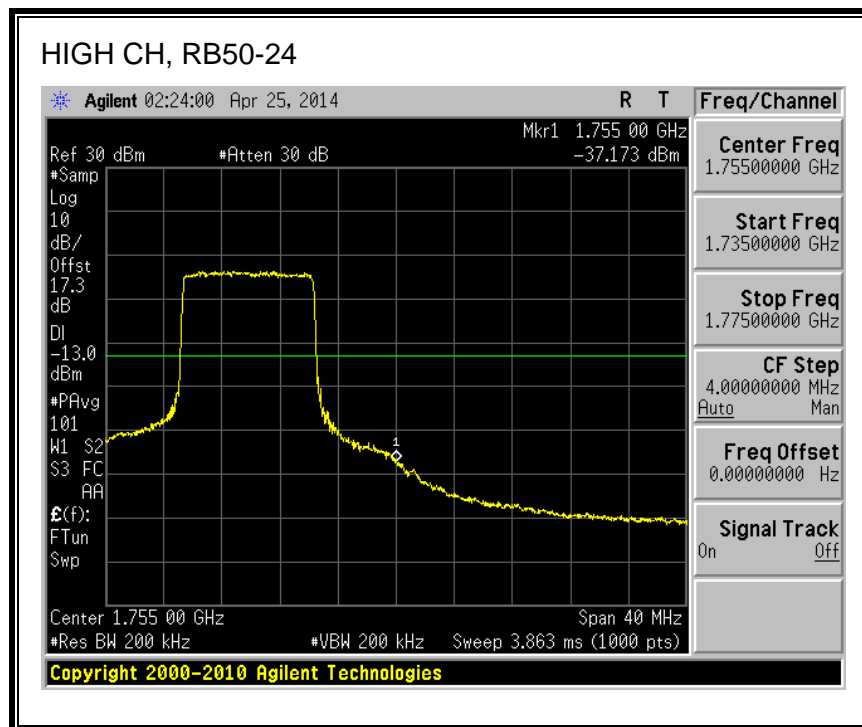
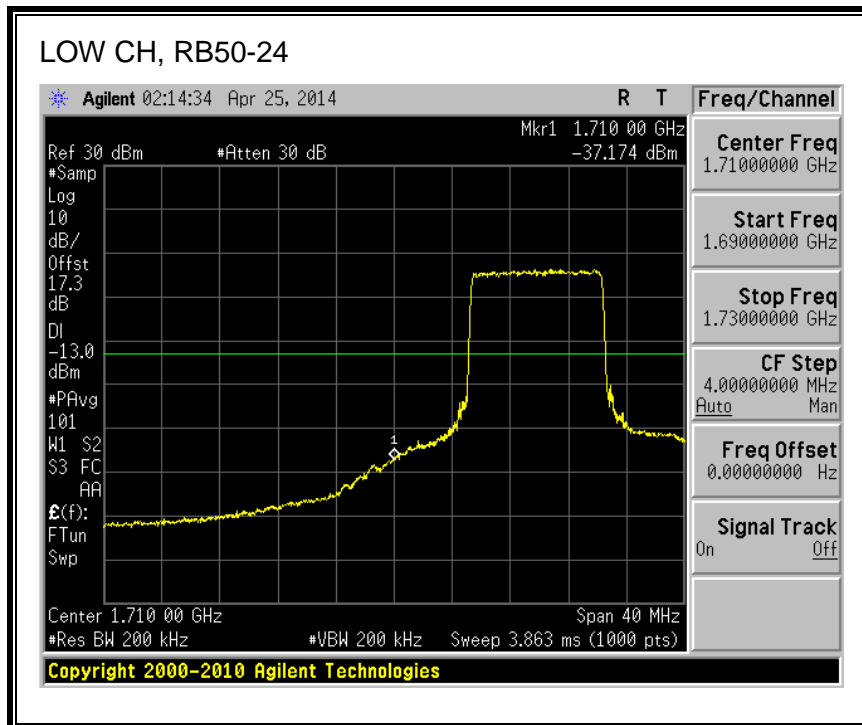


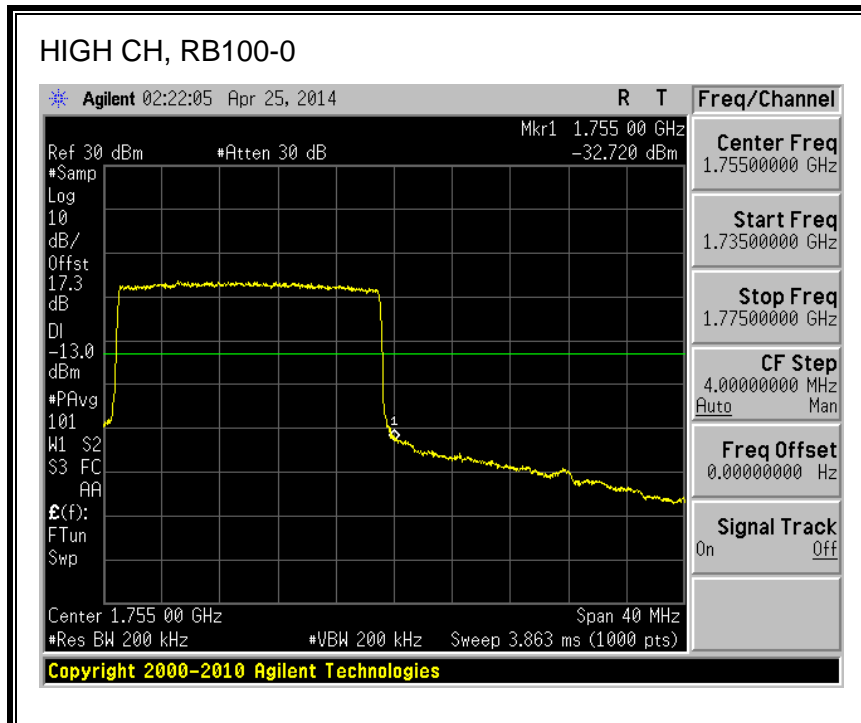
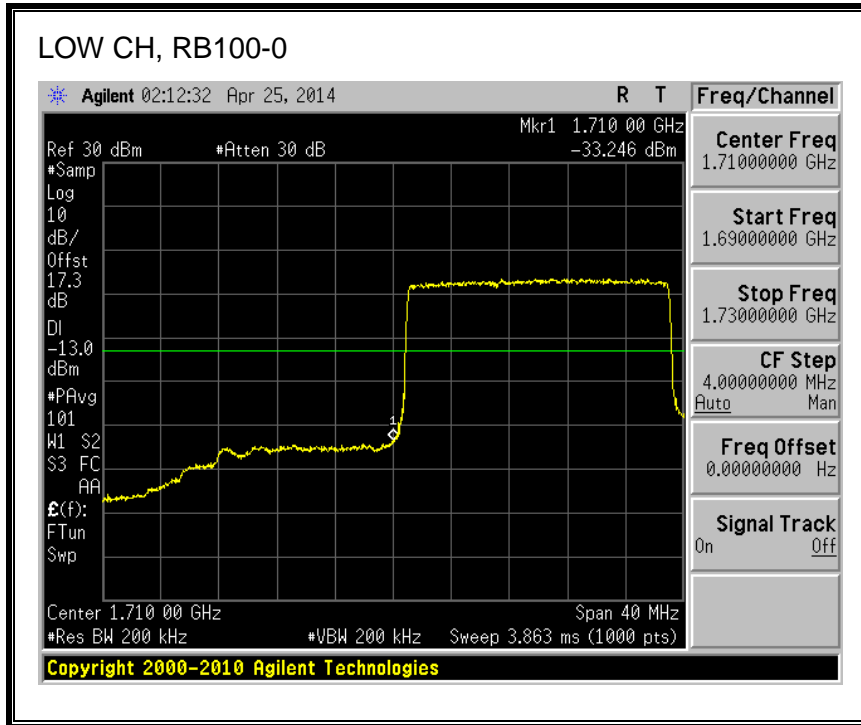


16QAM, (20.0 MHz BAND WIDTH)



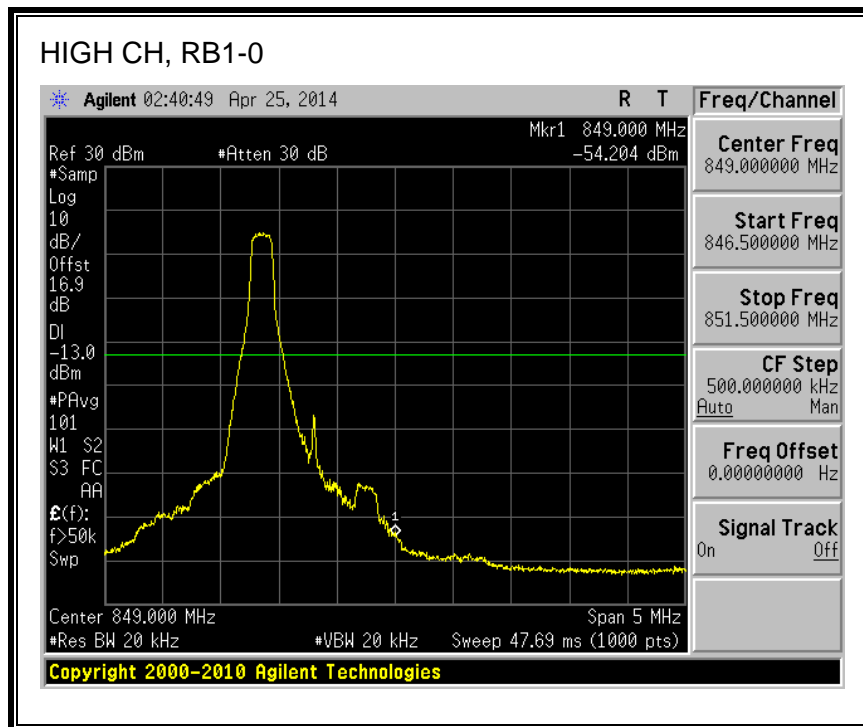
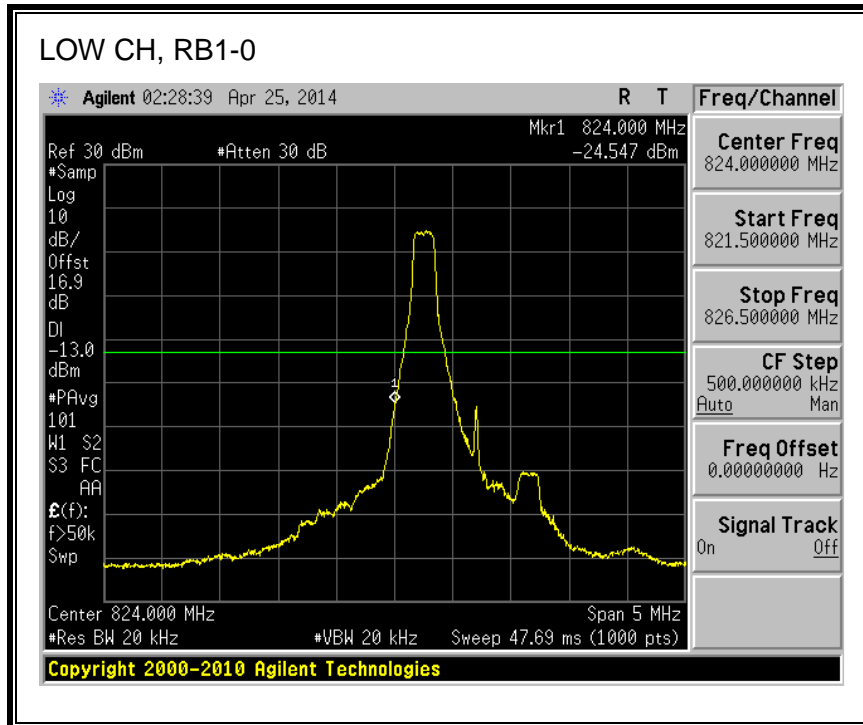


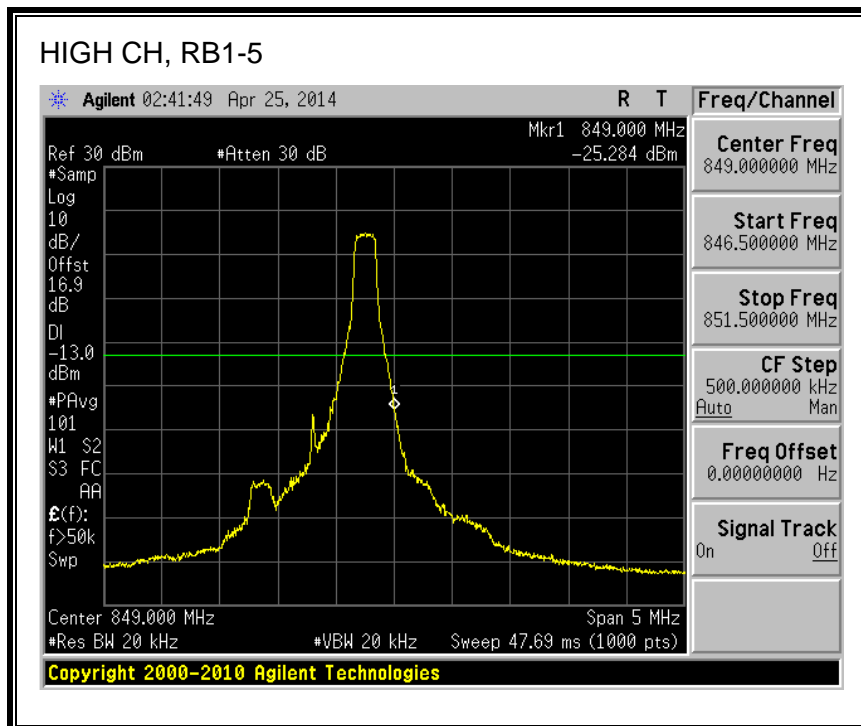
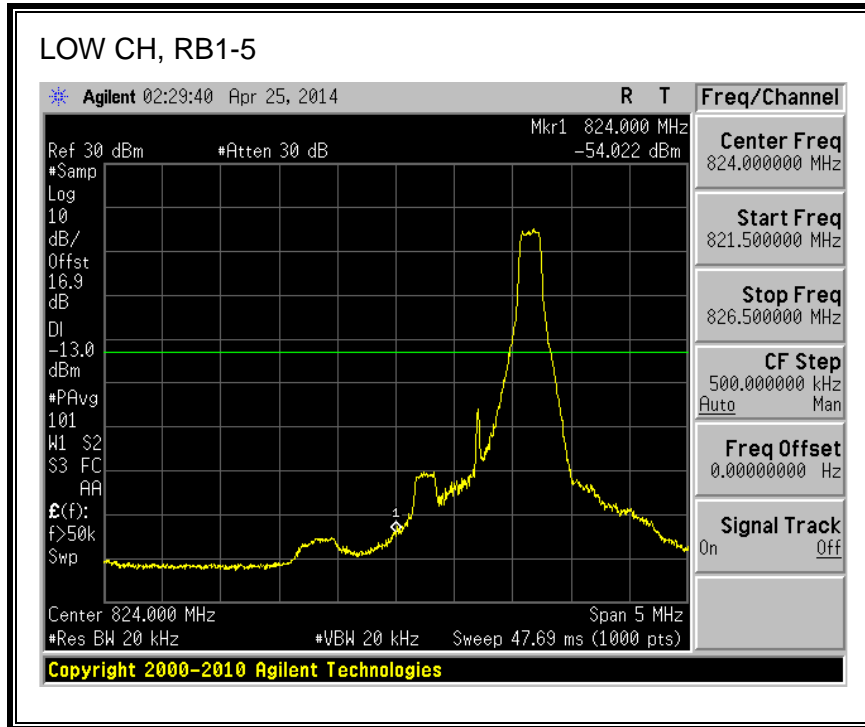


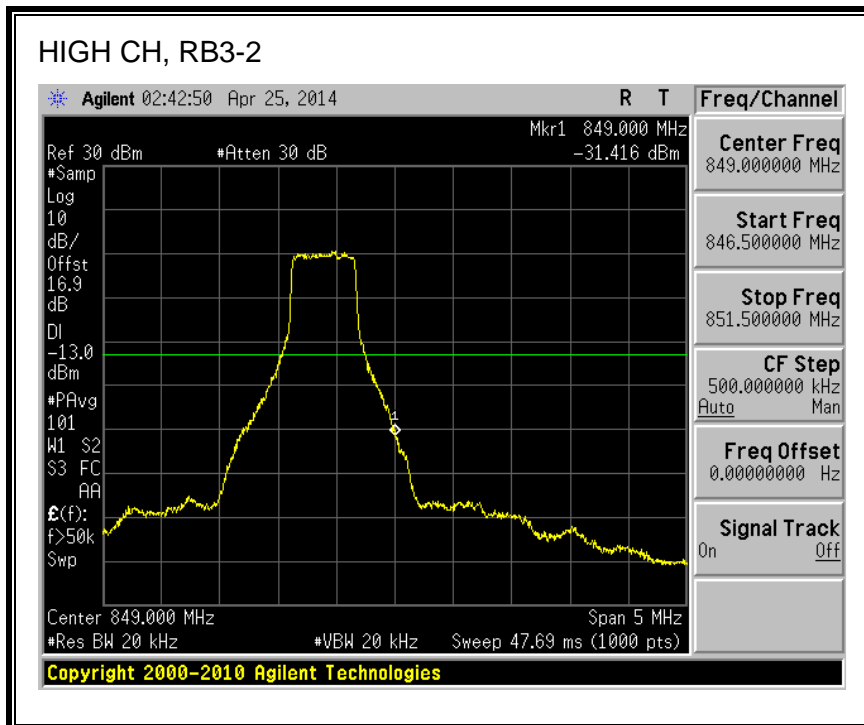
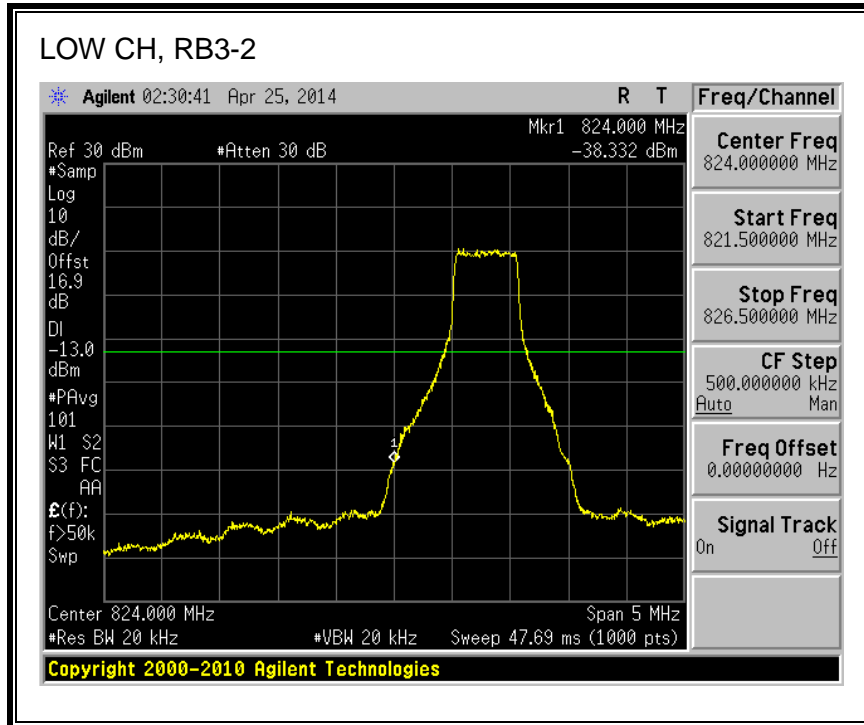


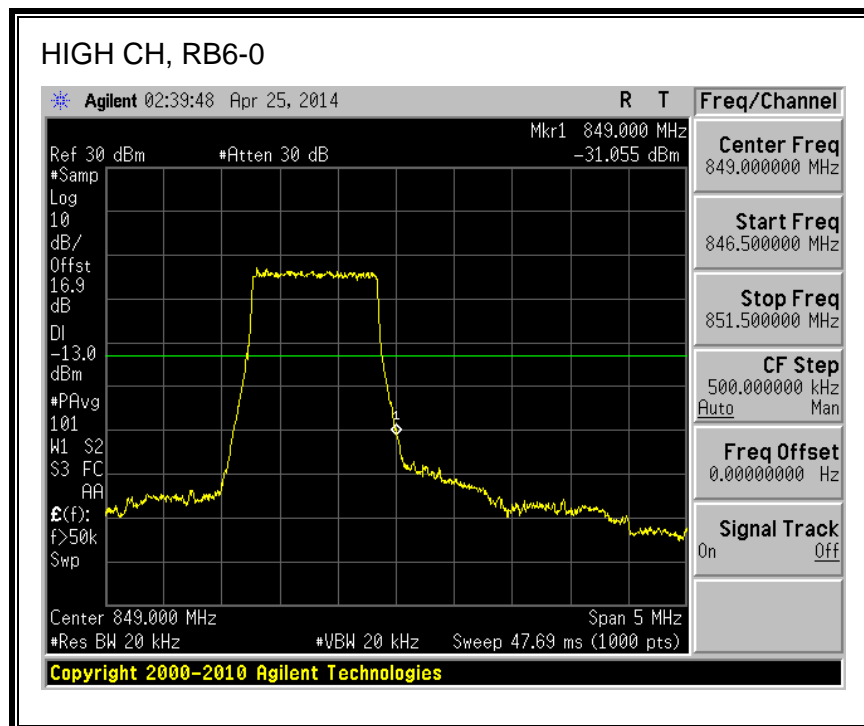
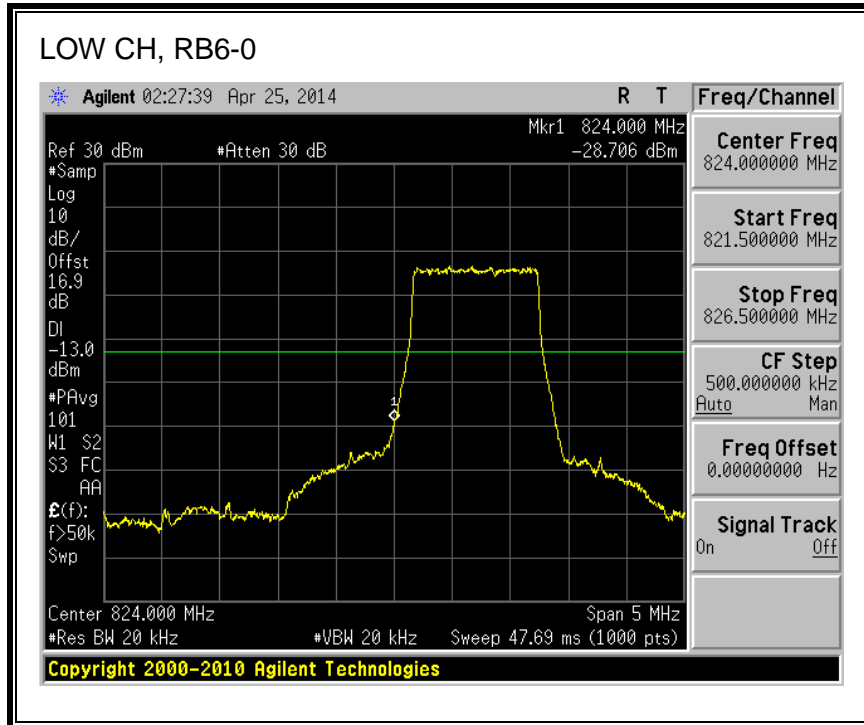
8.2.3. LTE BAND 5 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

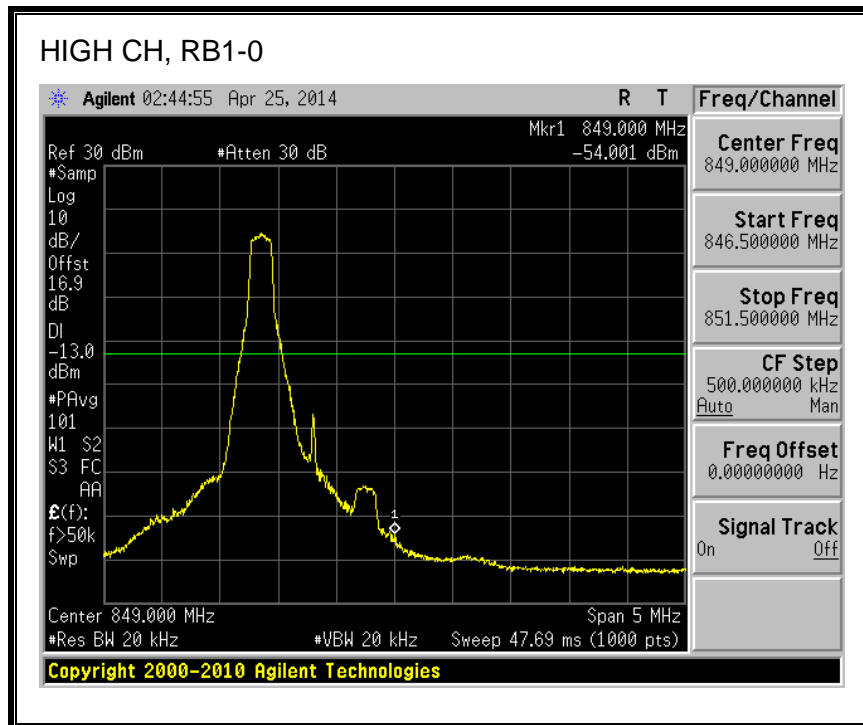
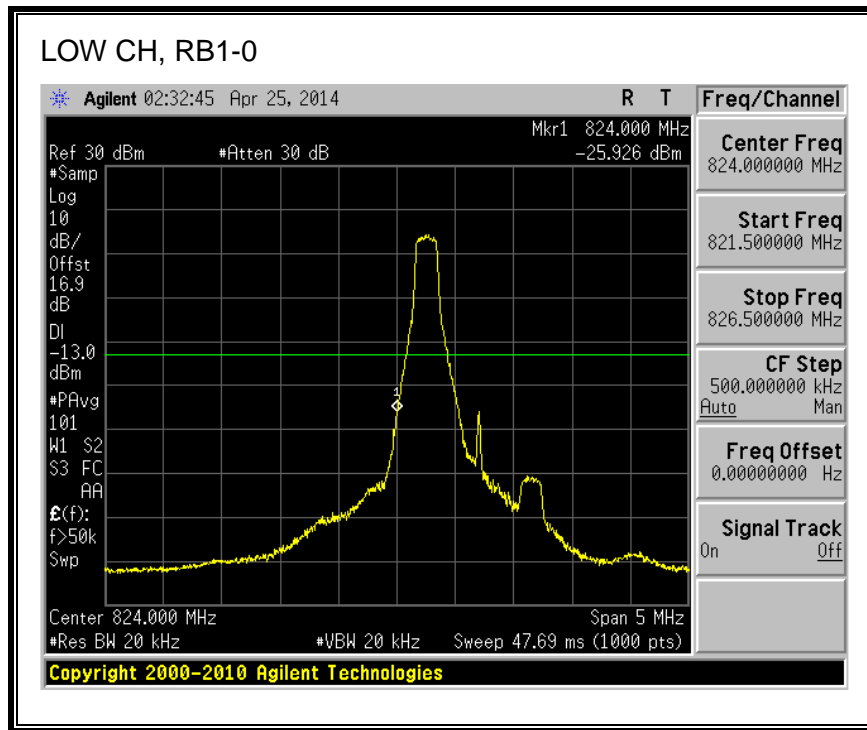


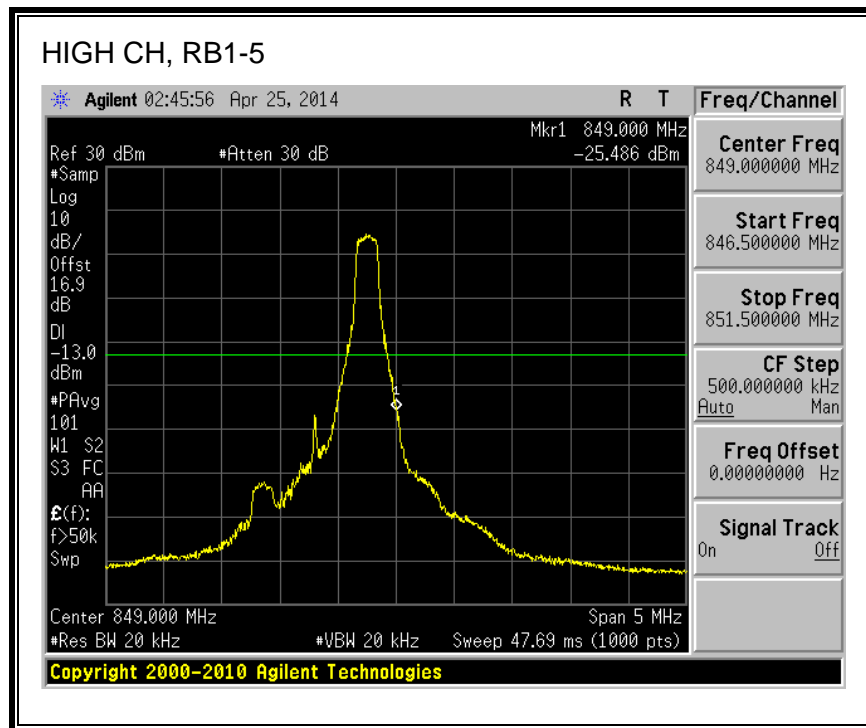
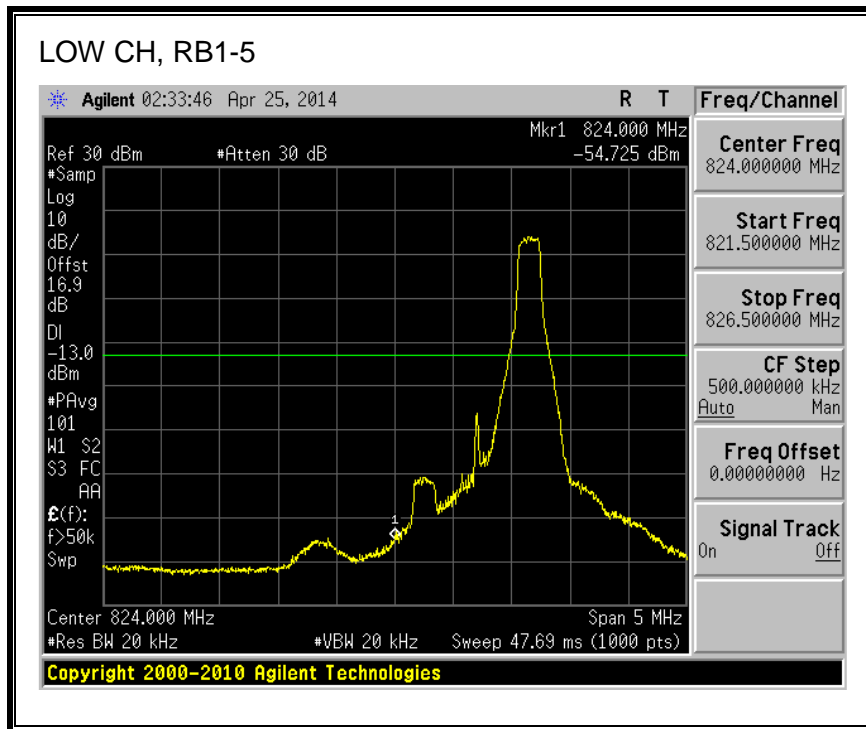


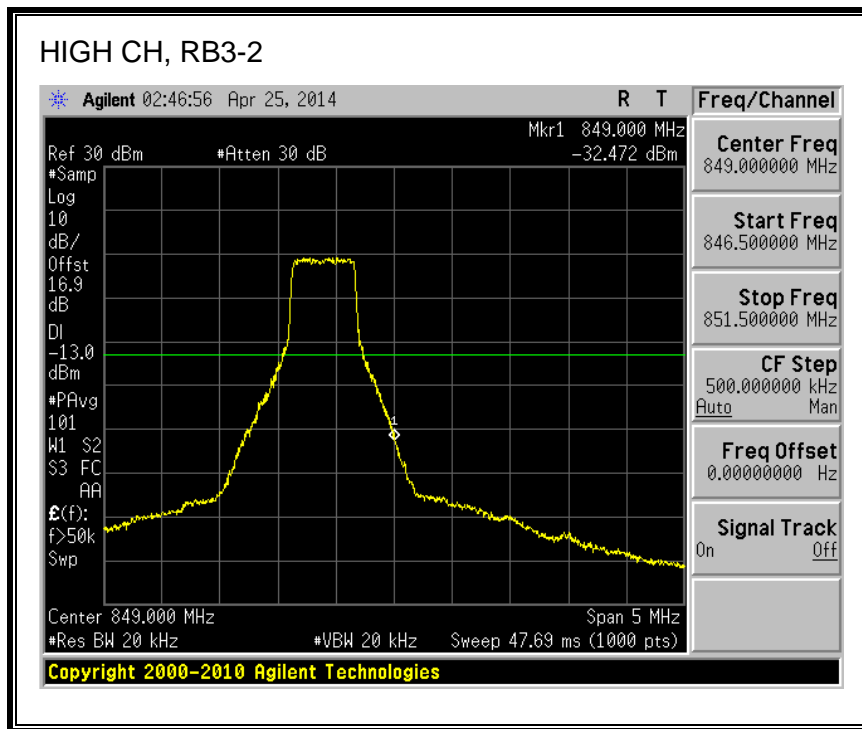
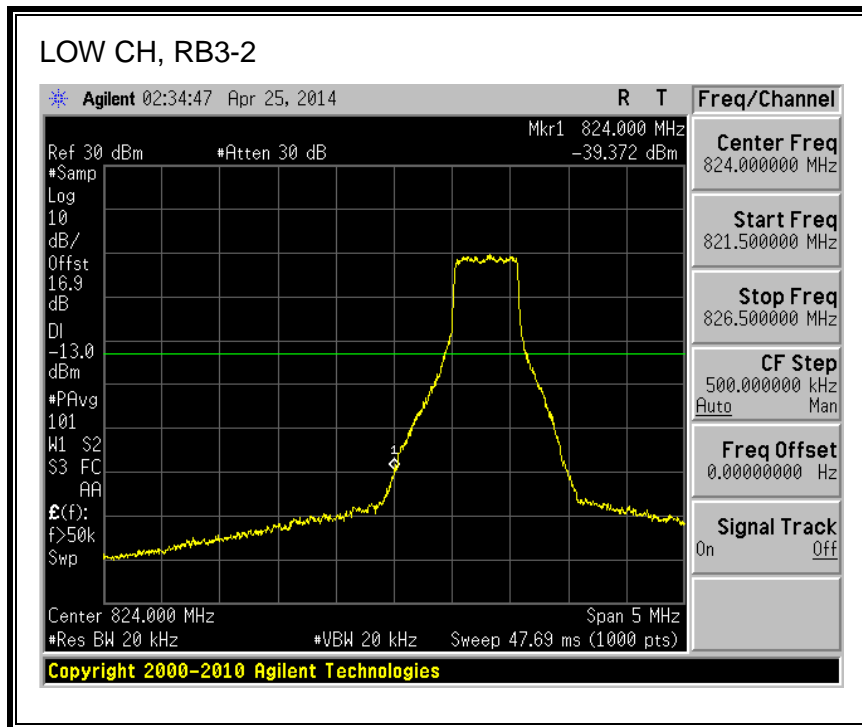


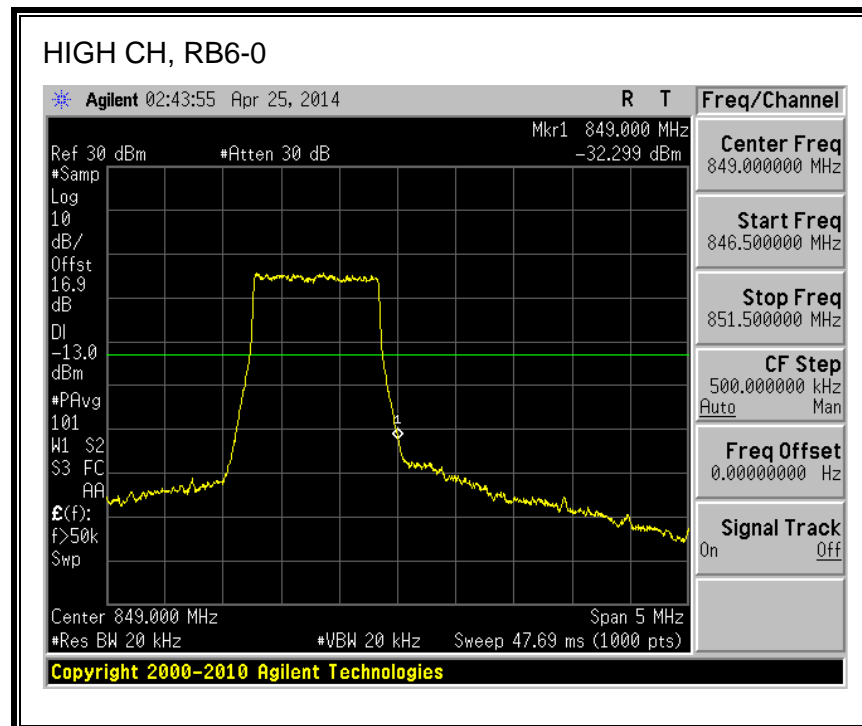
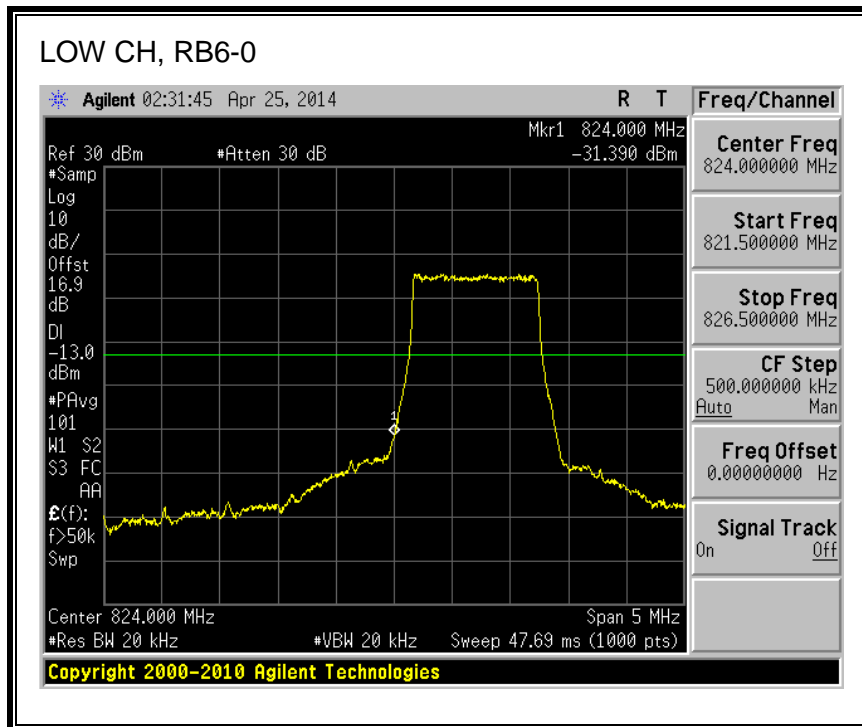


16QAM, (1.4 MHz BAND WIDTH)

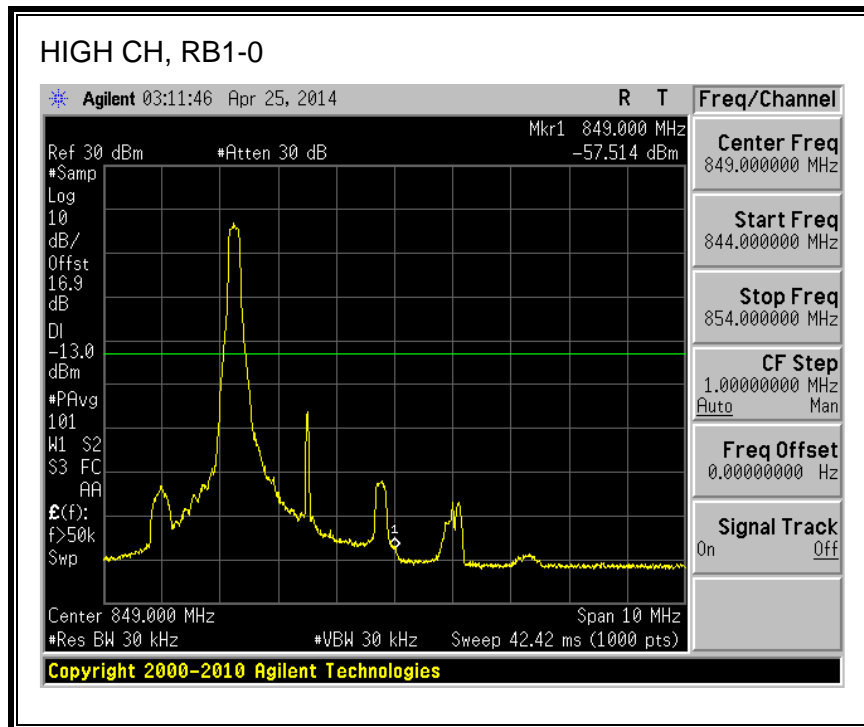
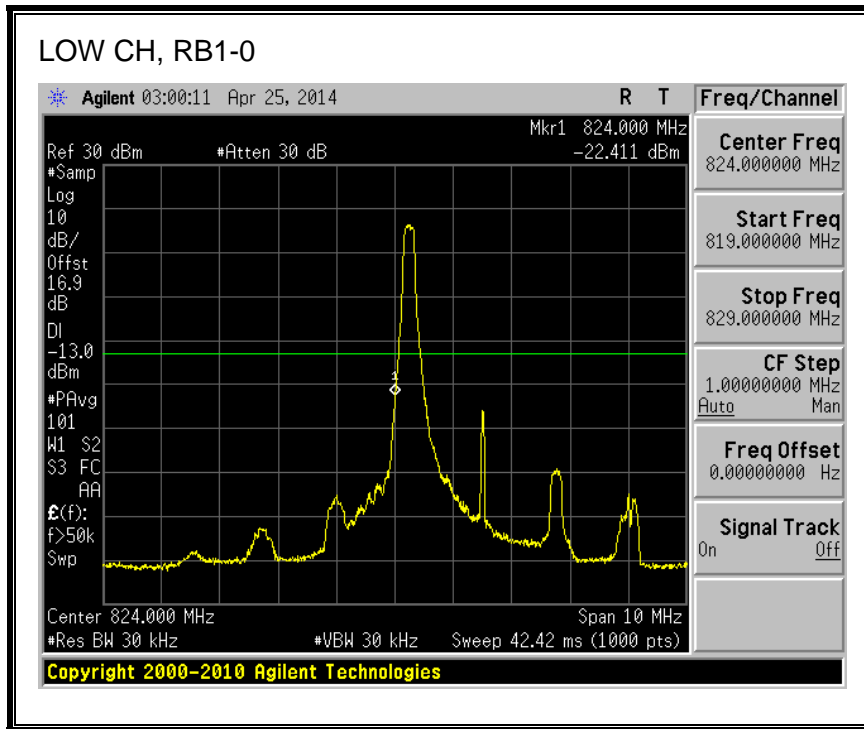


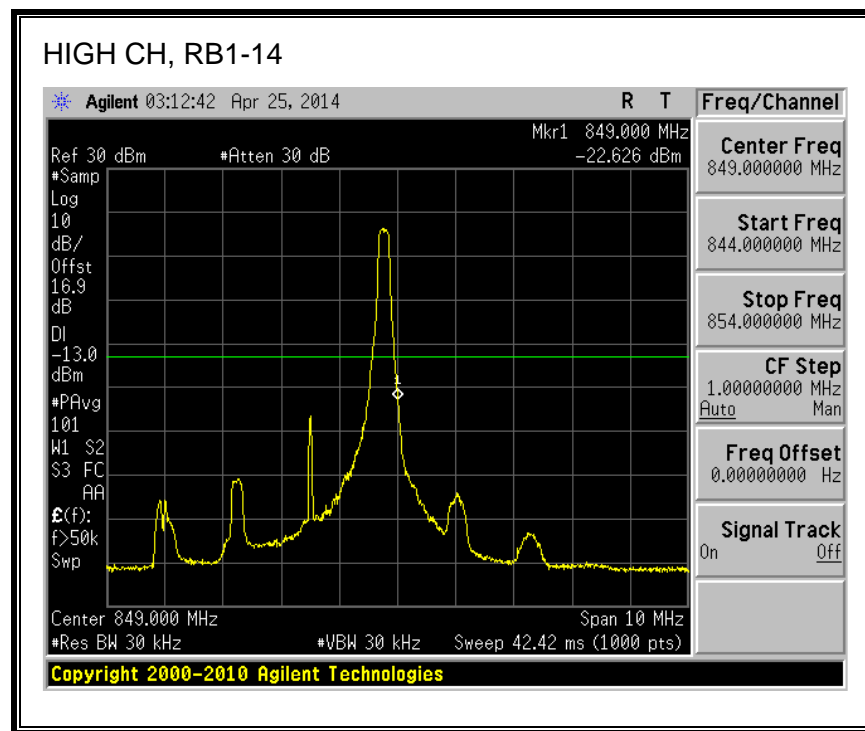
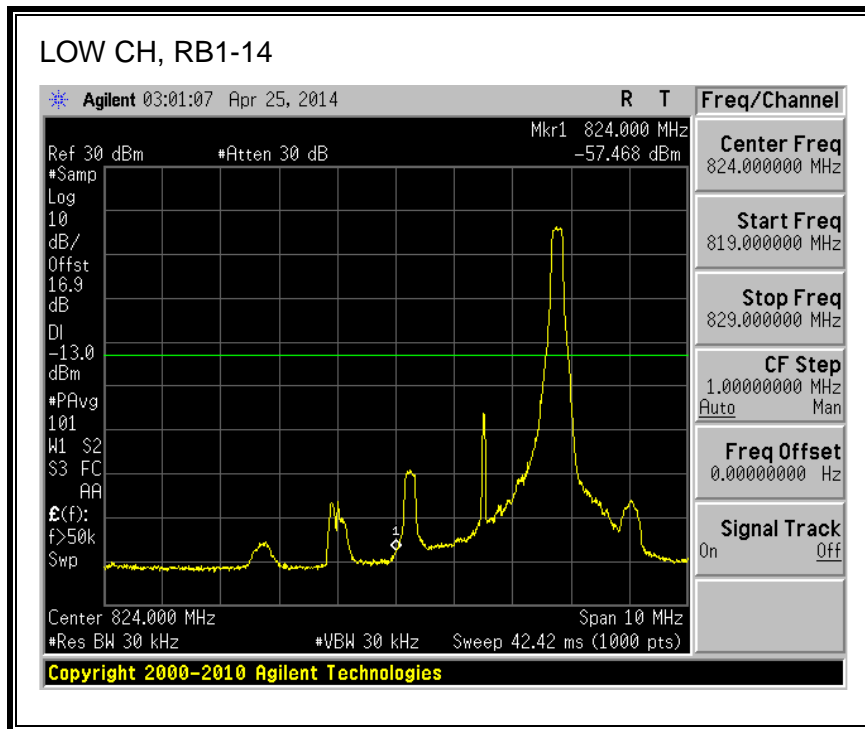


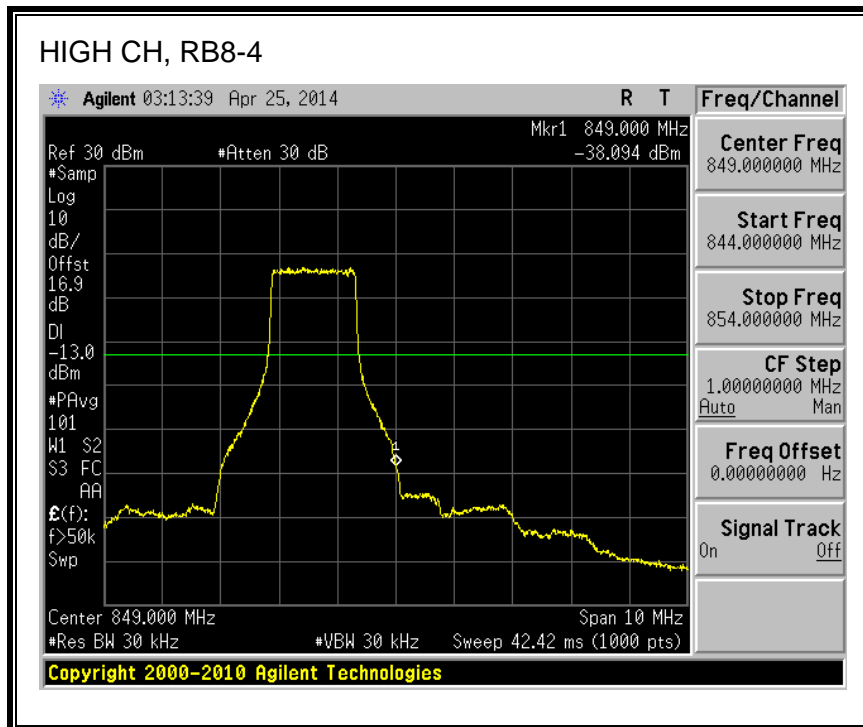
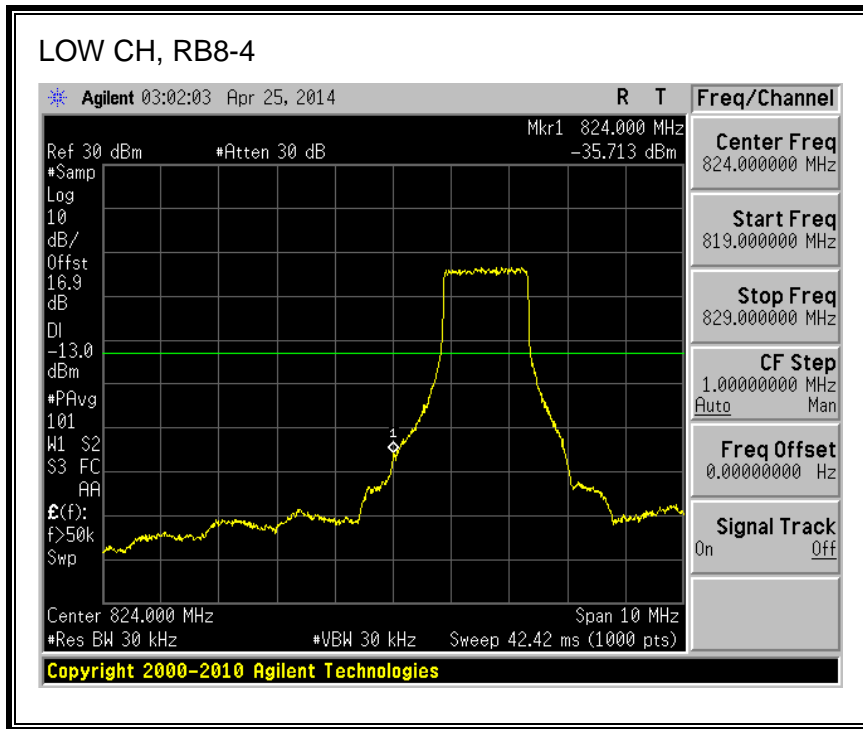


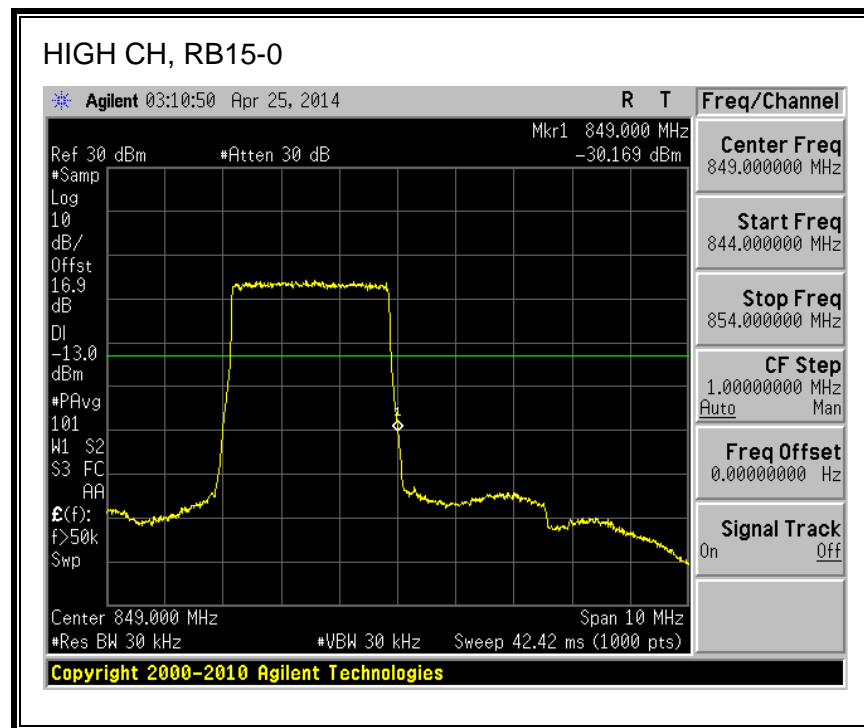
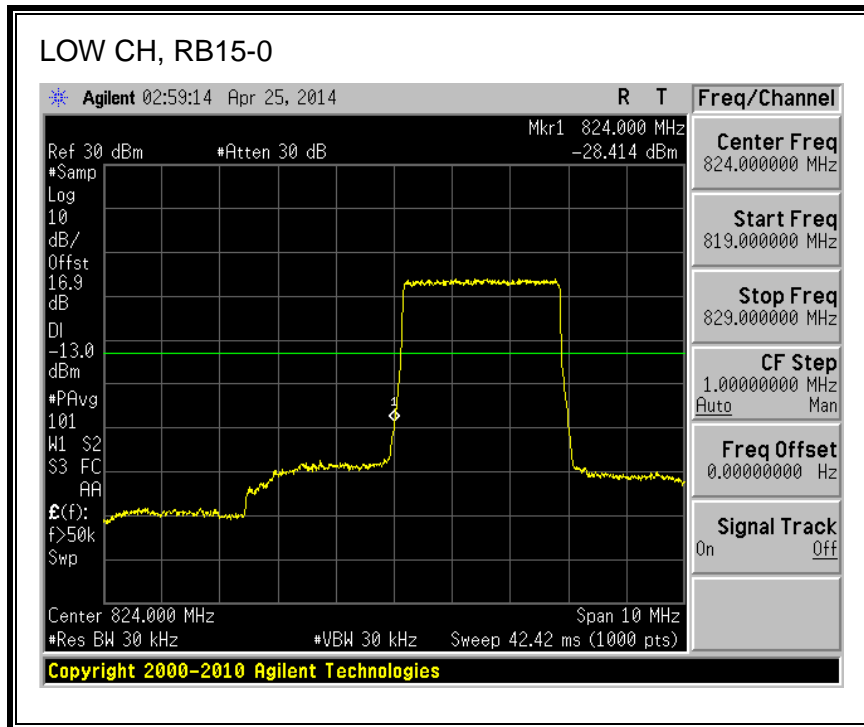


QPSK, (3.0 MHz BAND WIDTH)

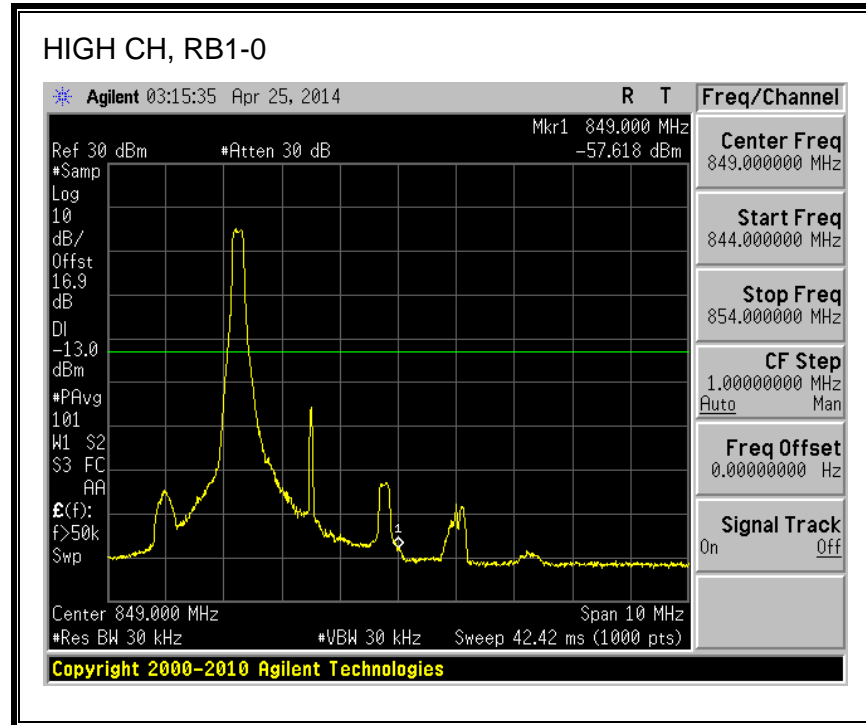
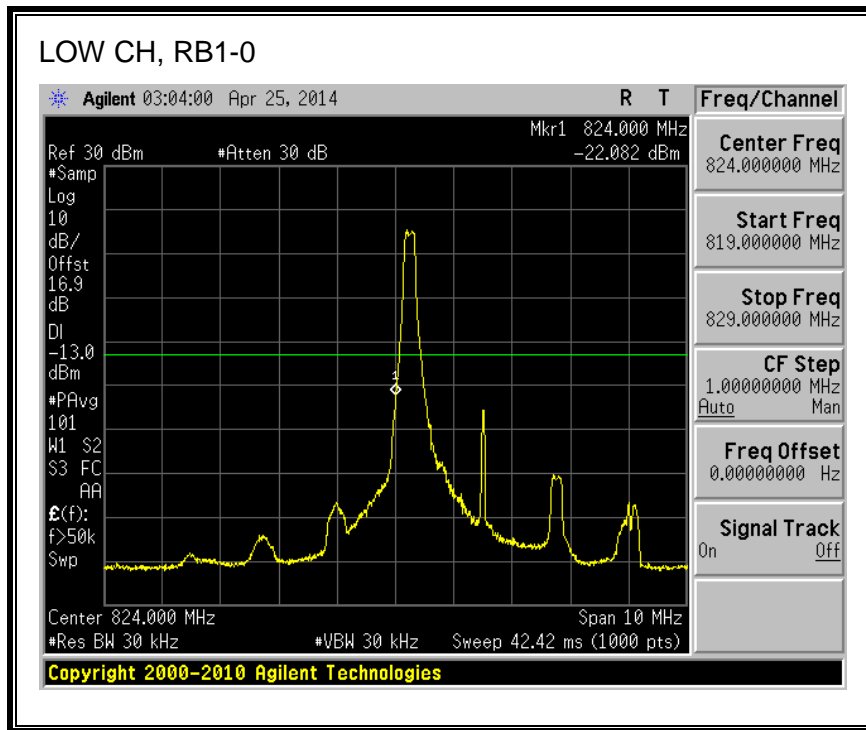


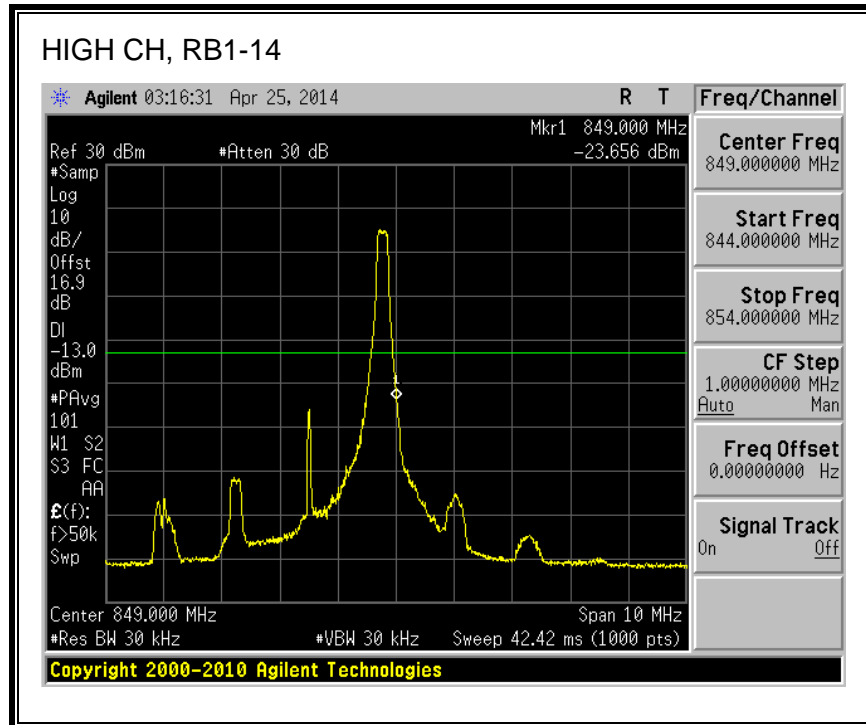
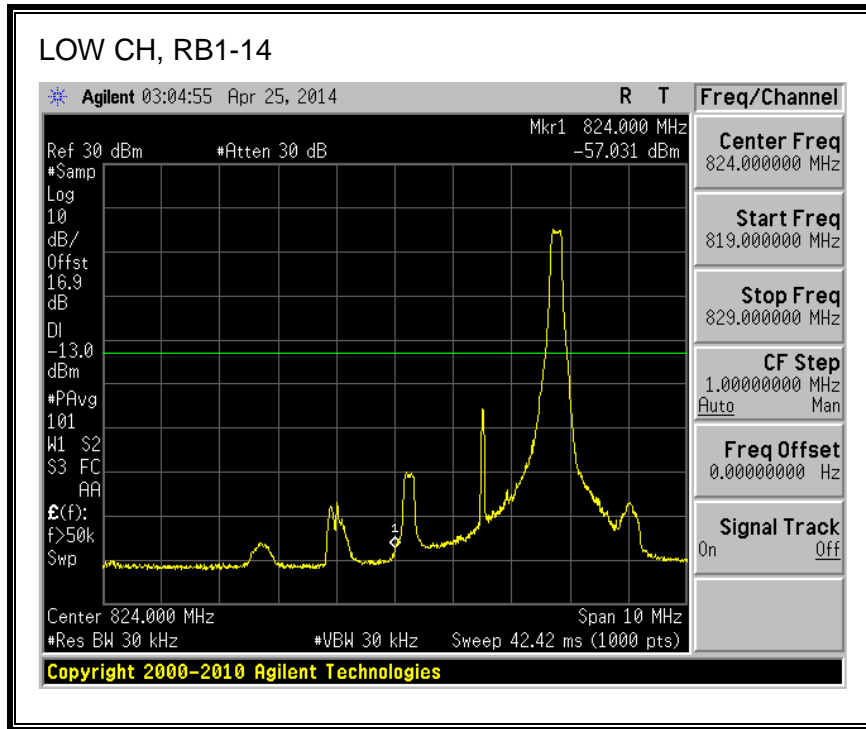


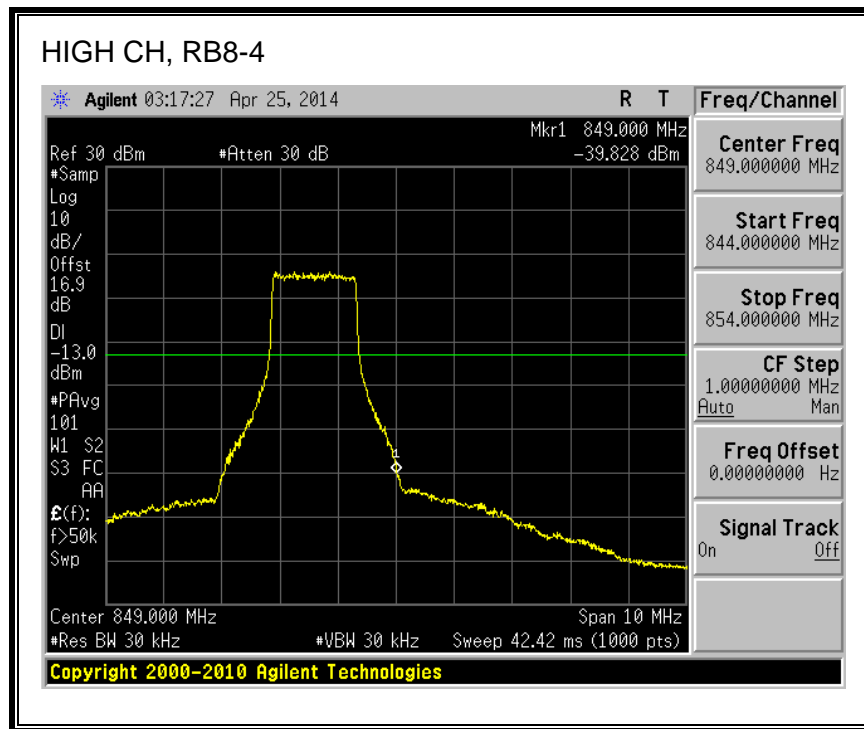
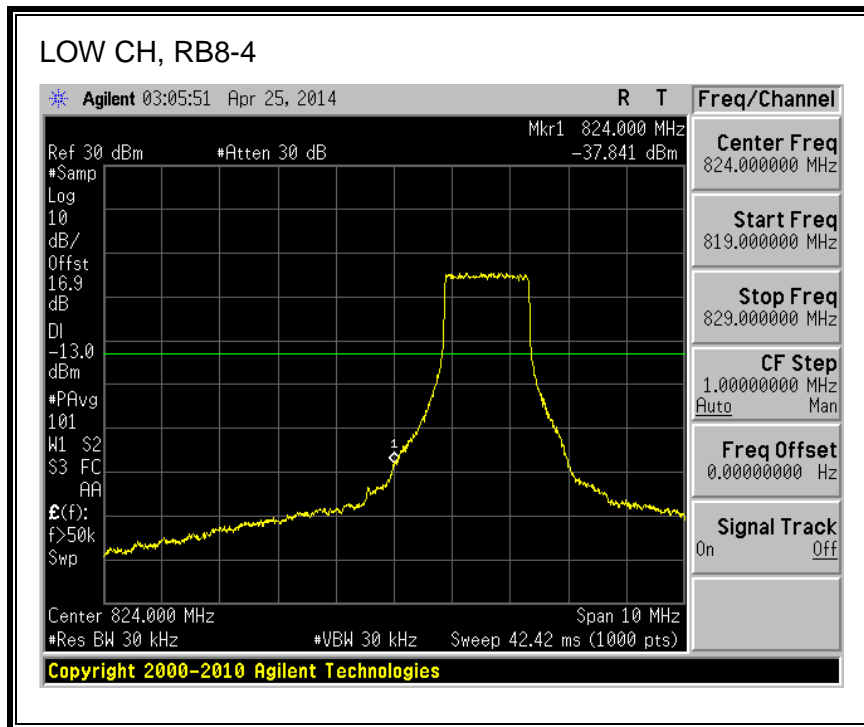


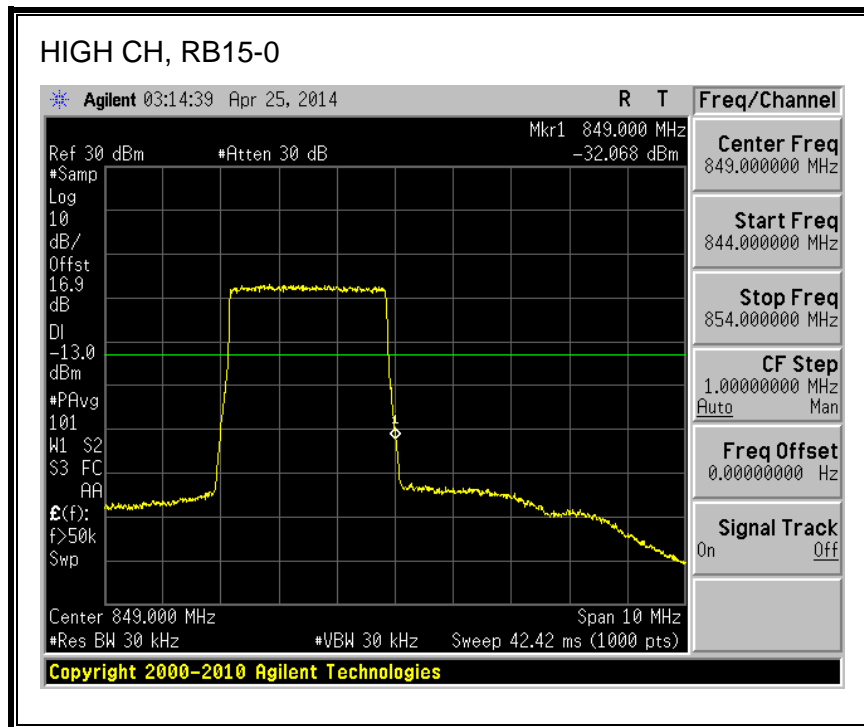
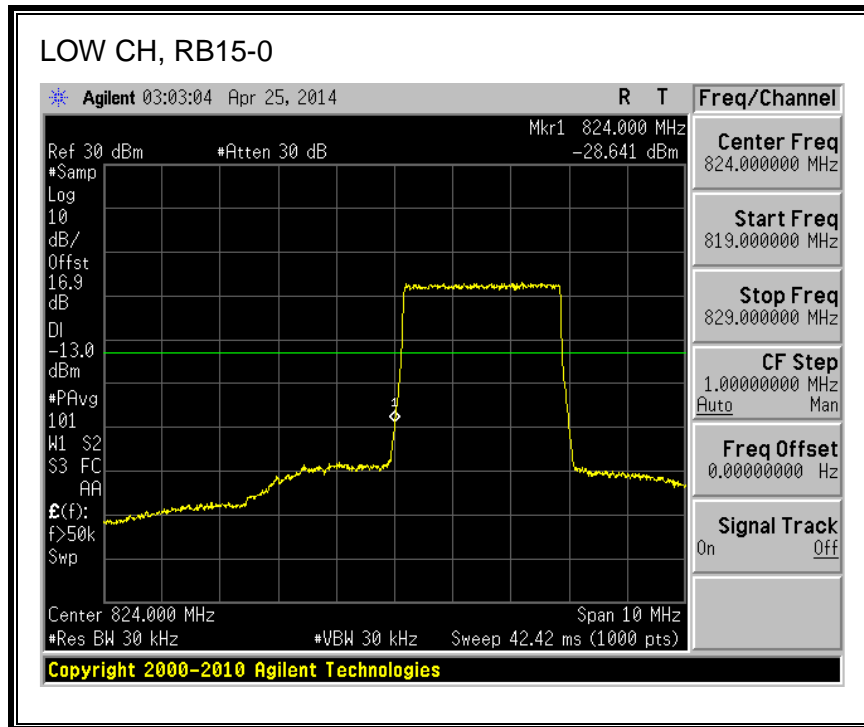


16QAM, (3.0 MHz BAND WIDTH)

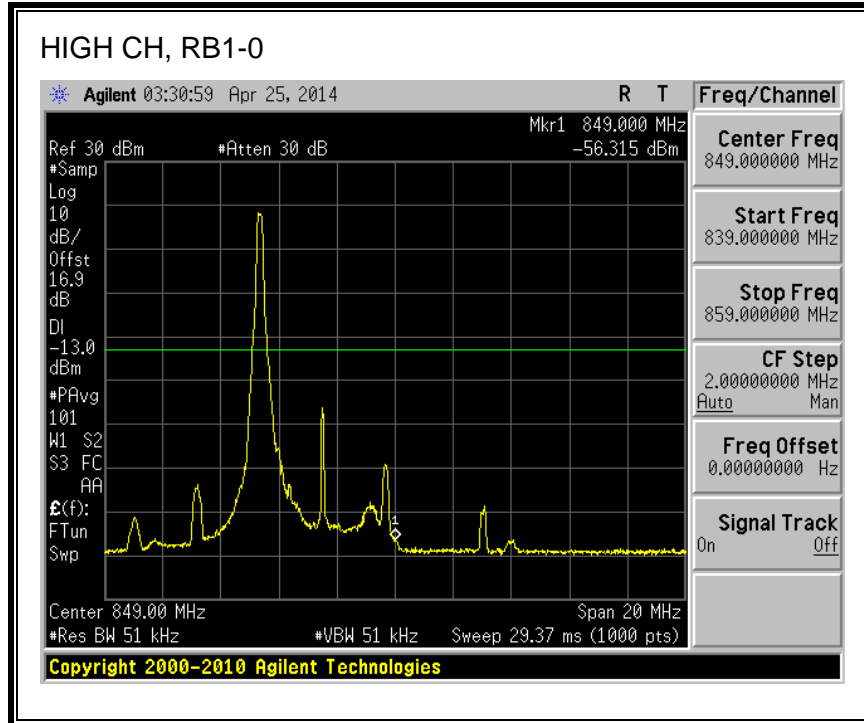
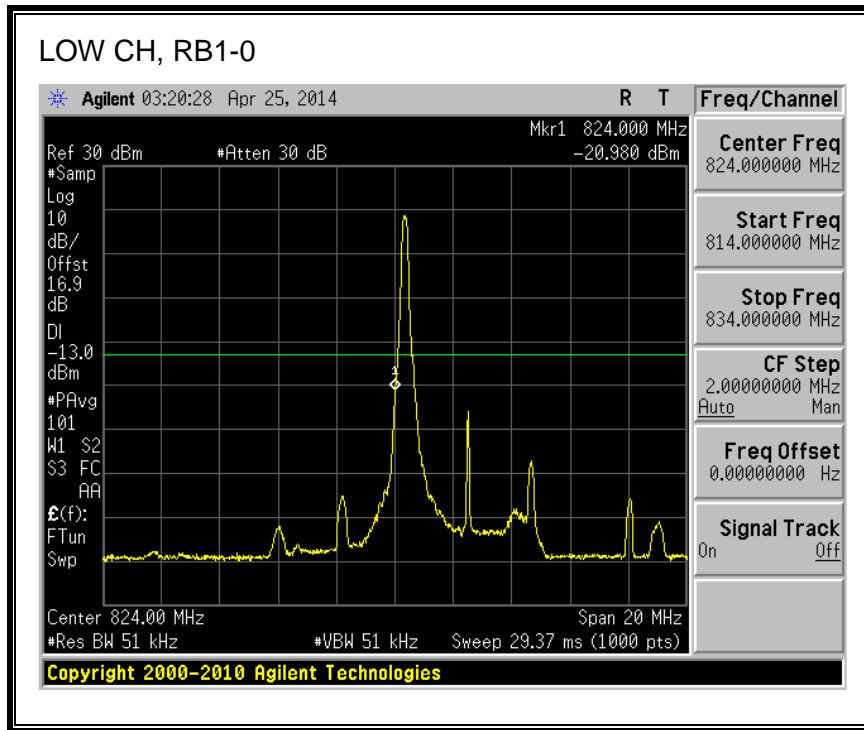


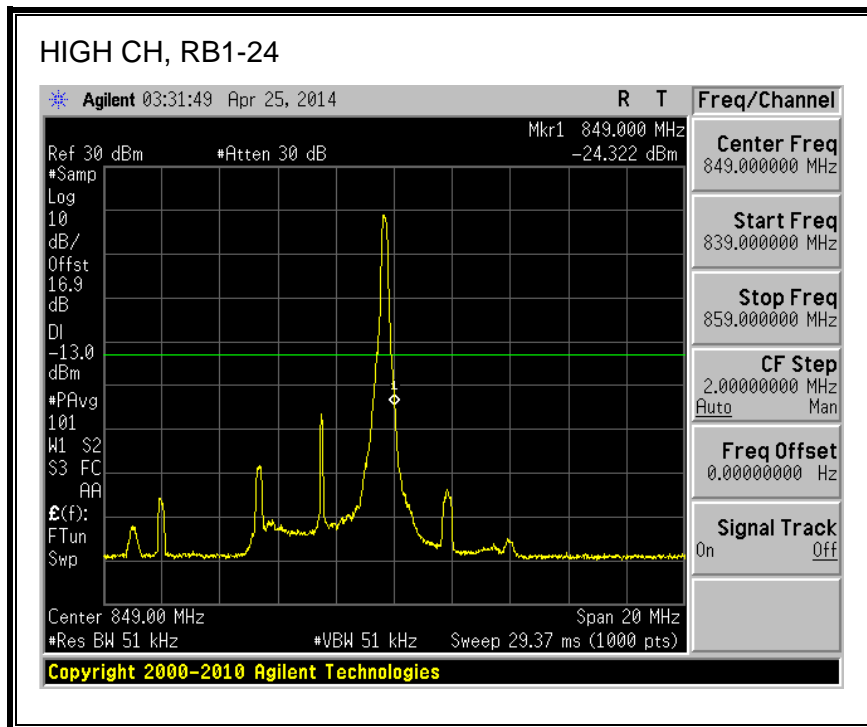
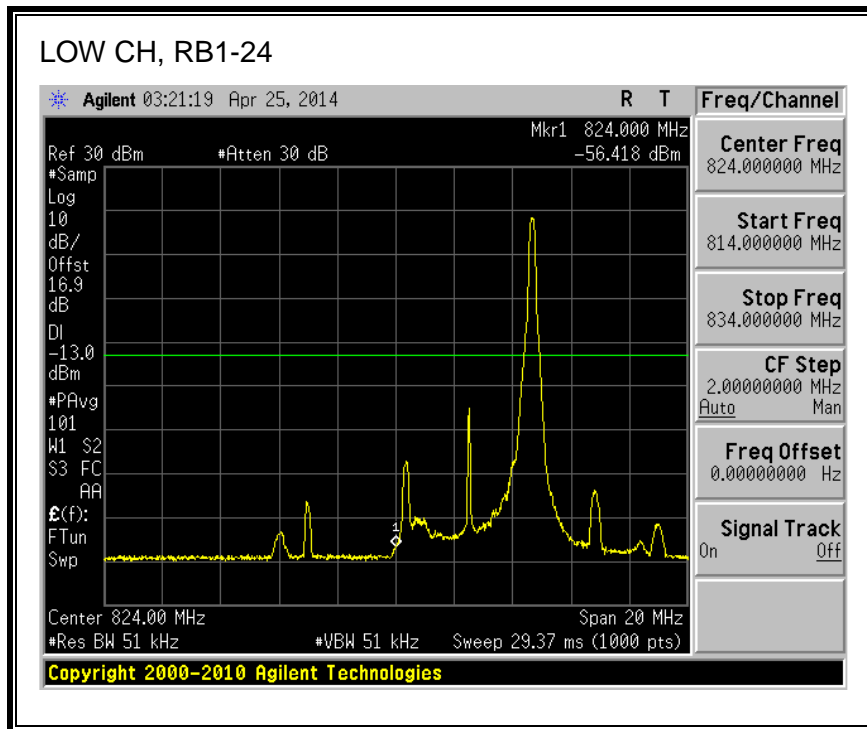


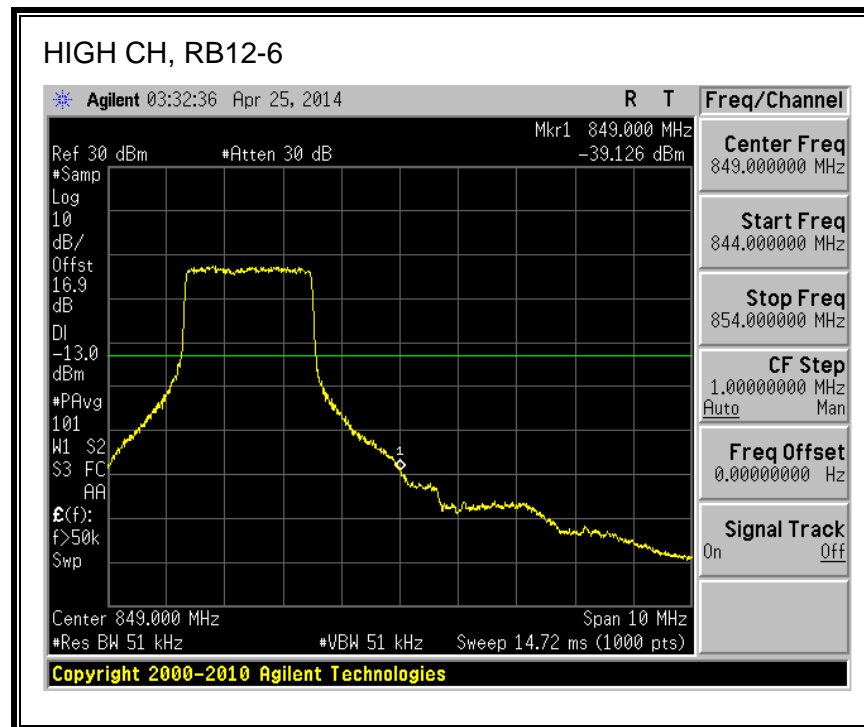
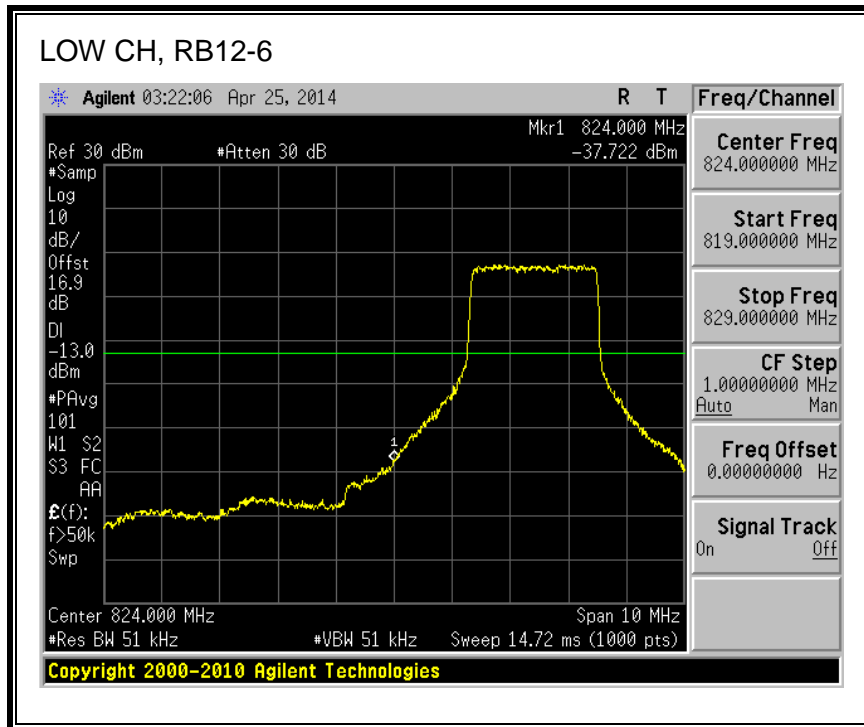


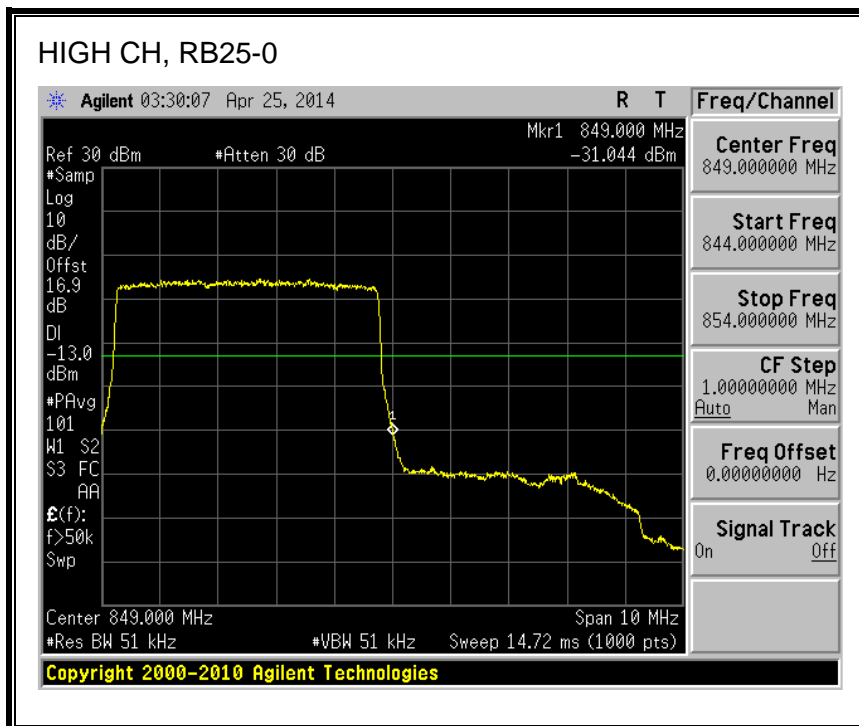
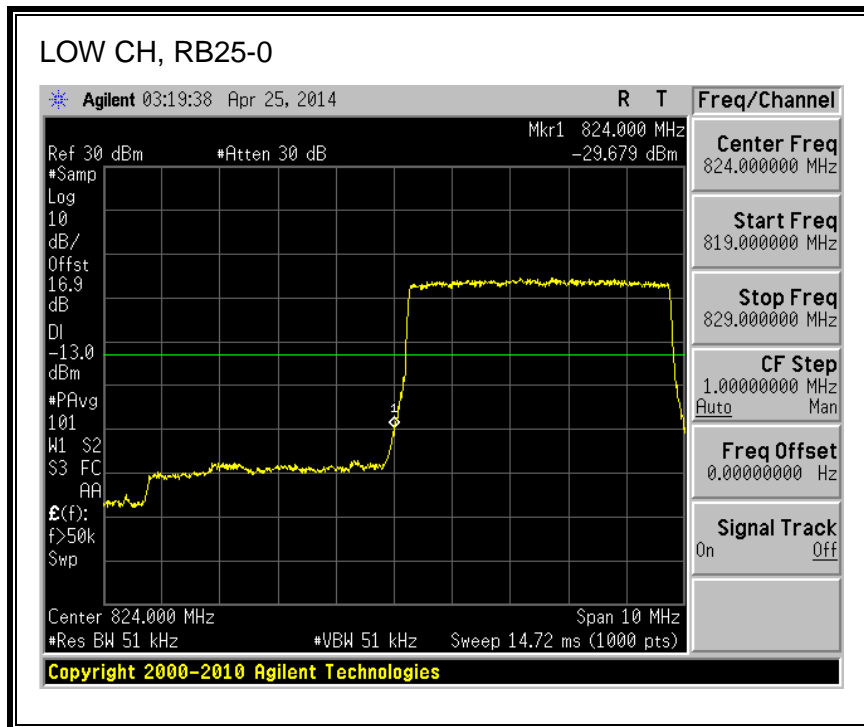


QPSK, (5.0 MHz BAND WIDTH)

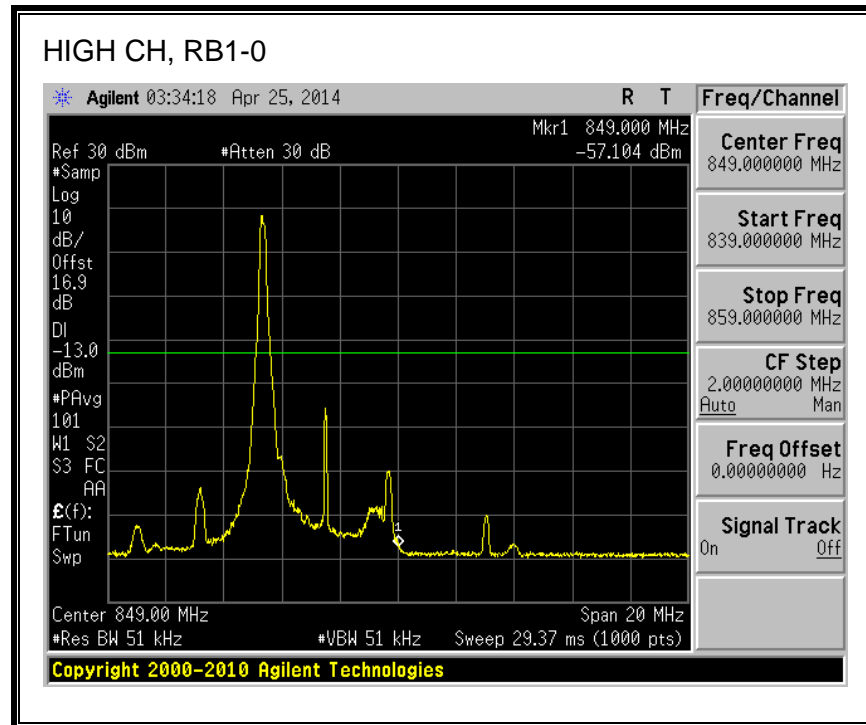
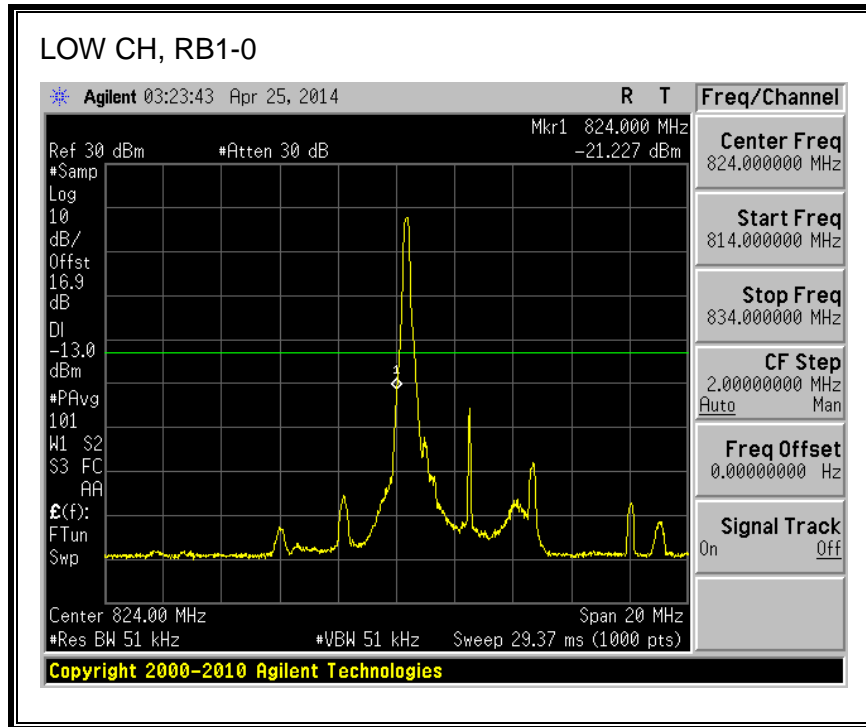


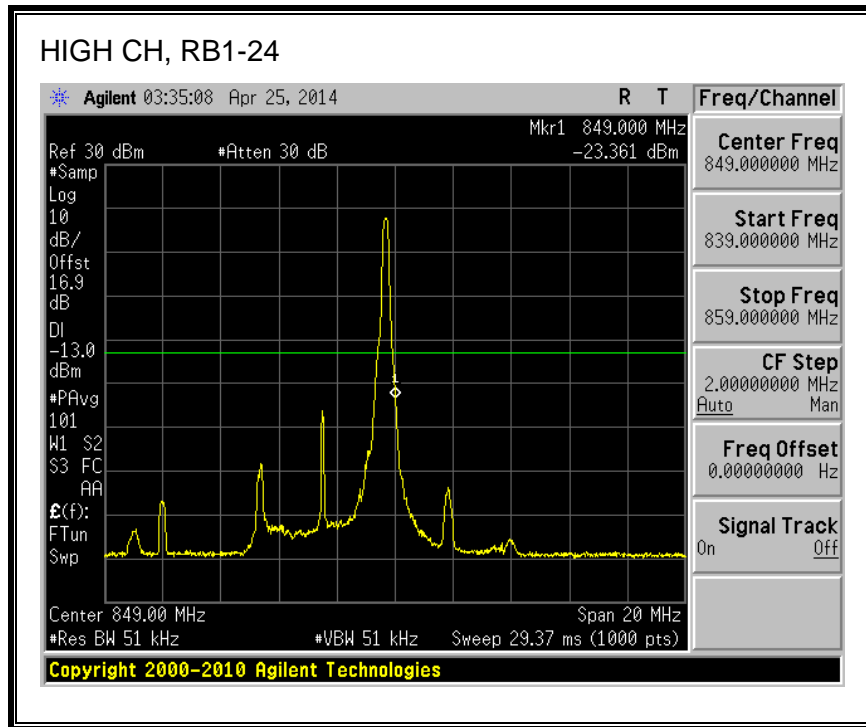
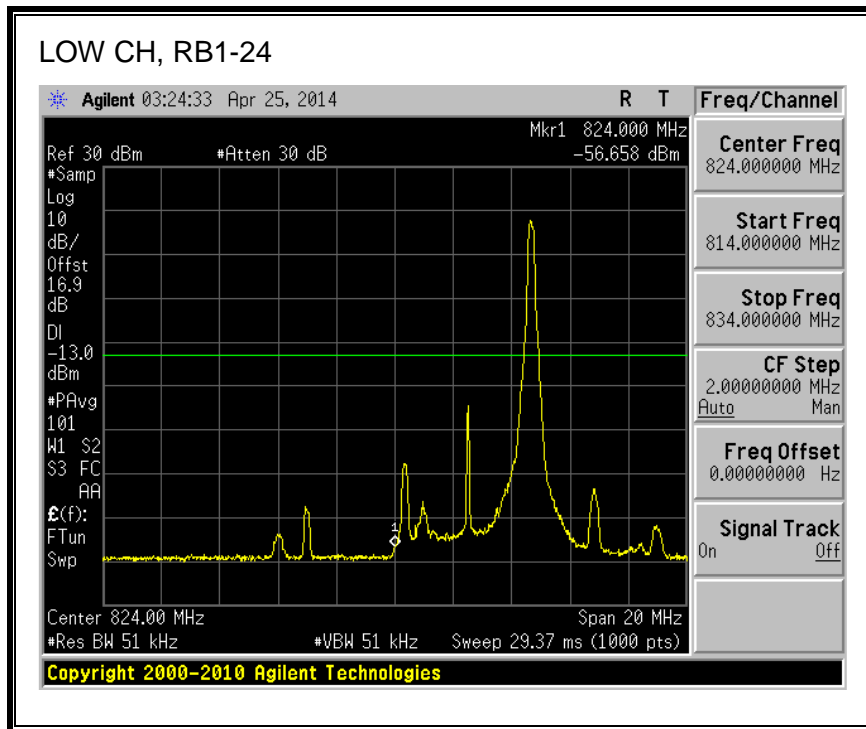


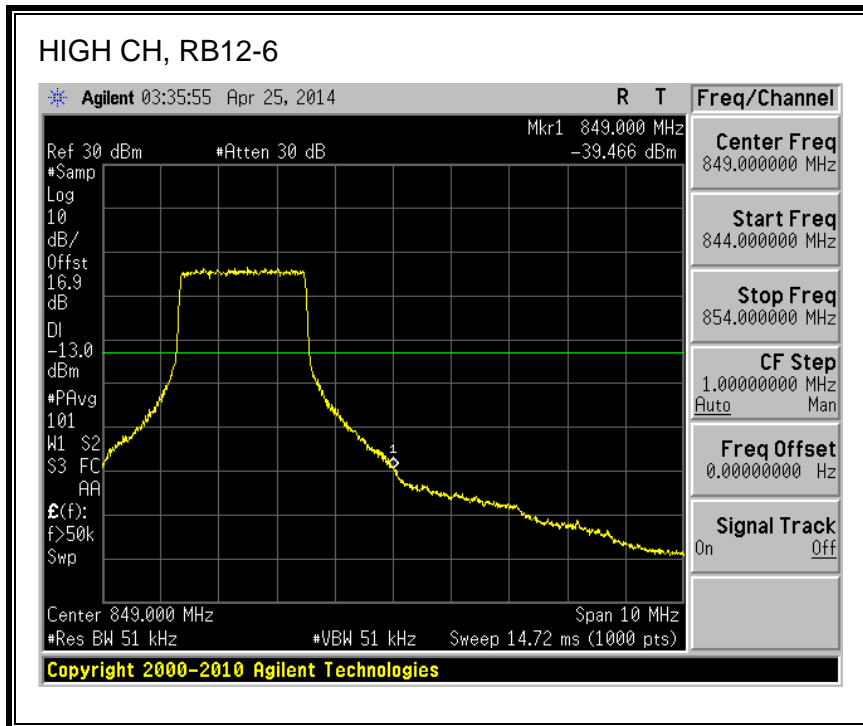
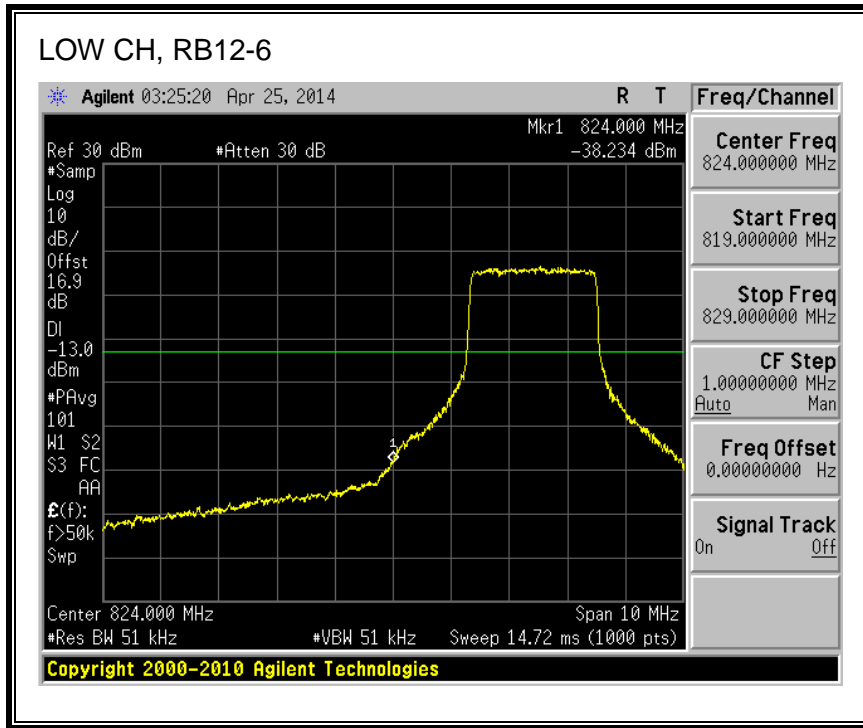


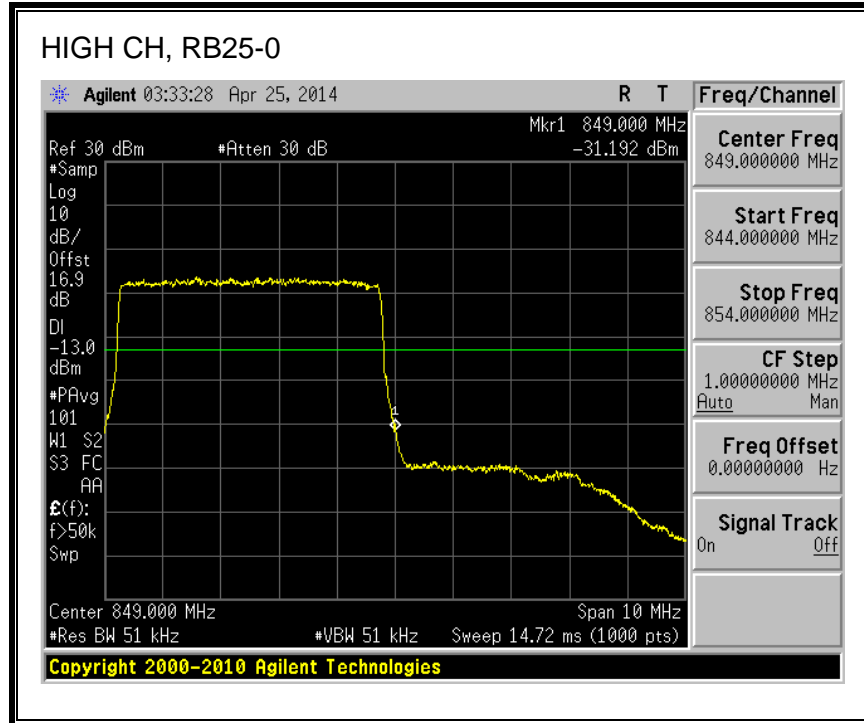
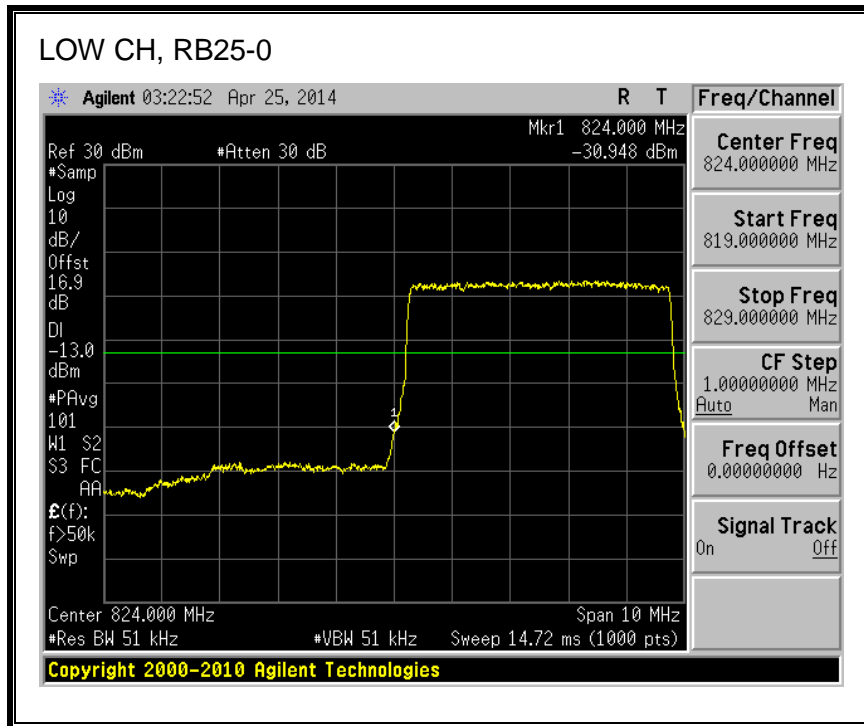


16QAM, (5.0 MHz BAND WIDTH)

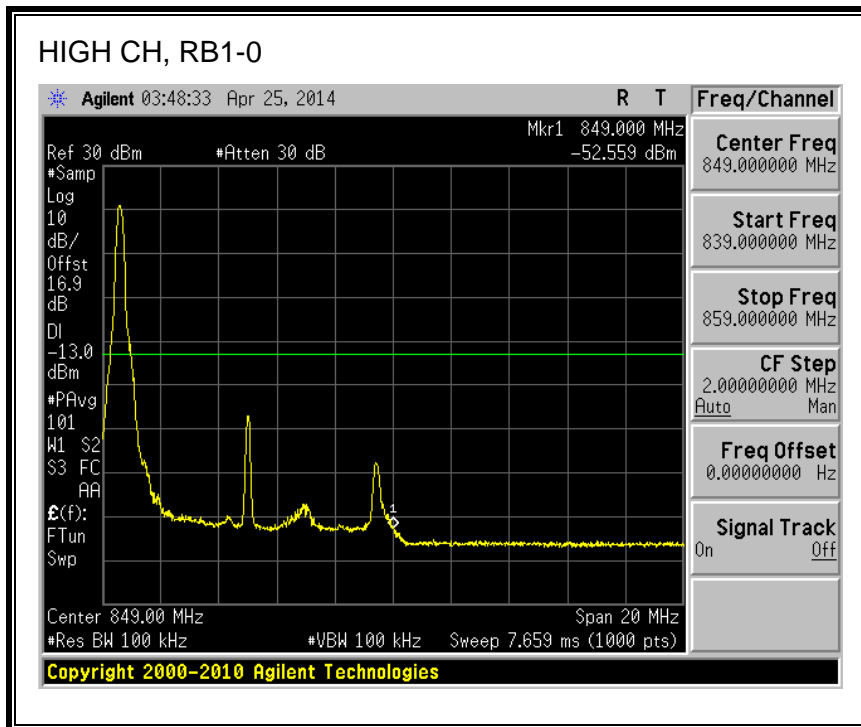
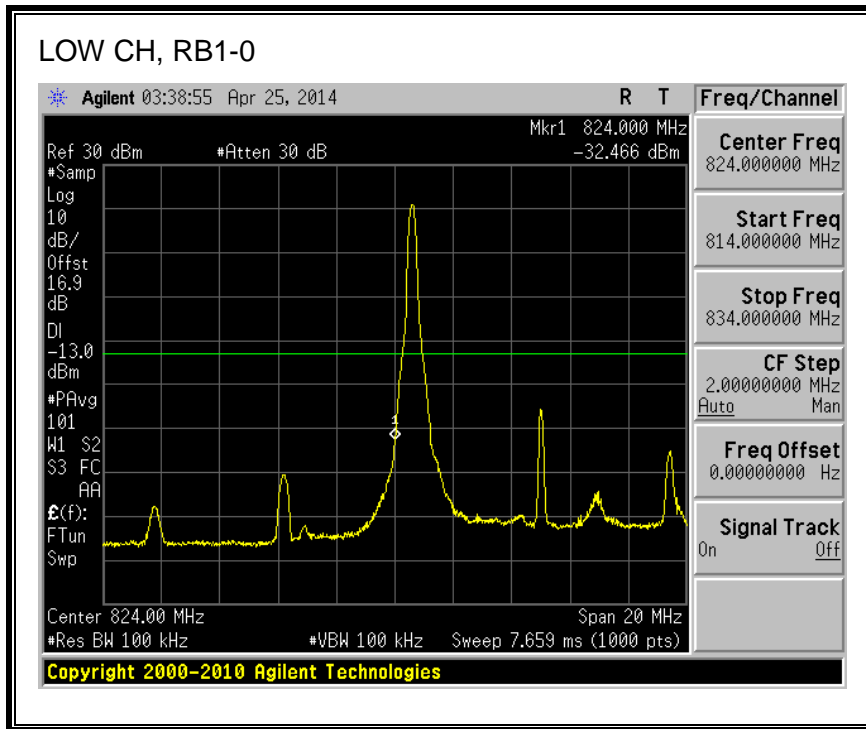


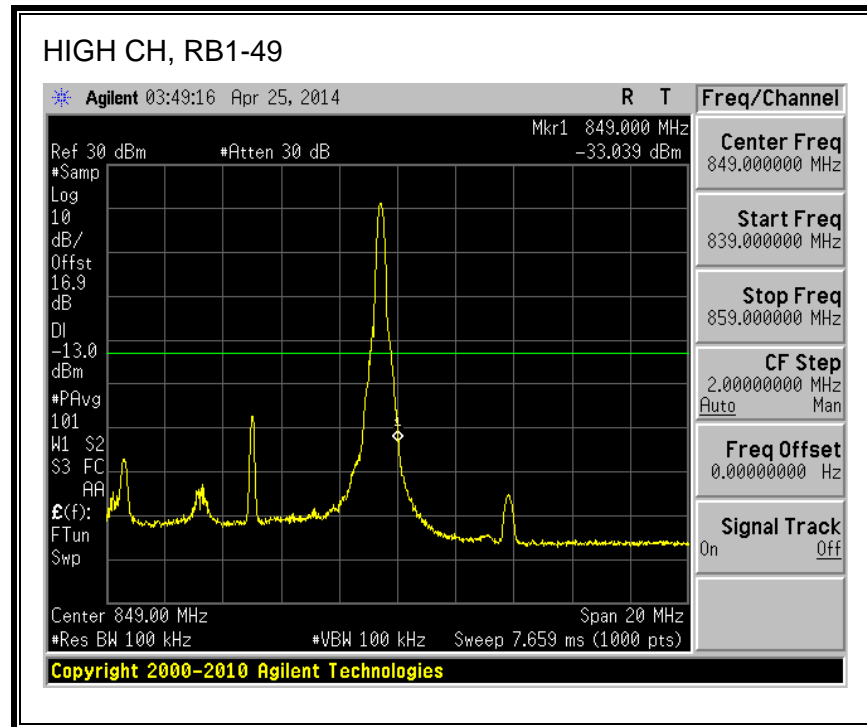
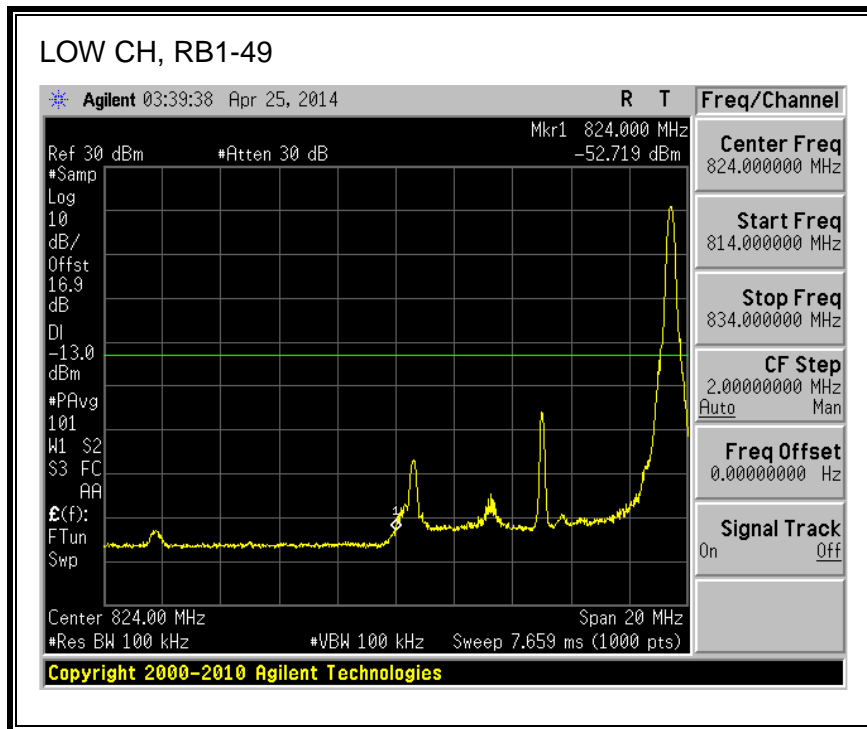


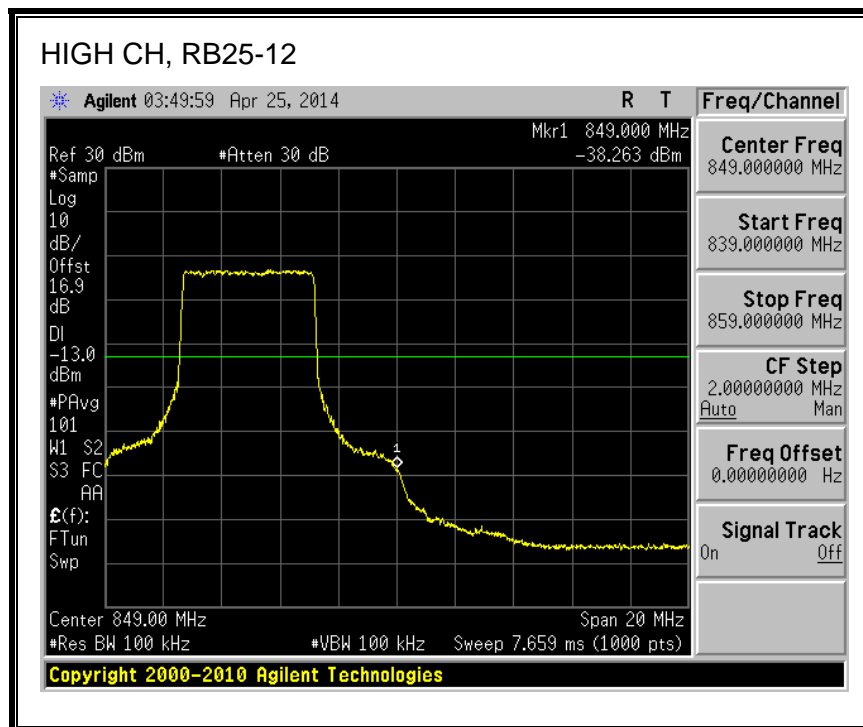
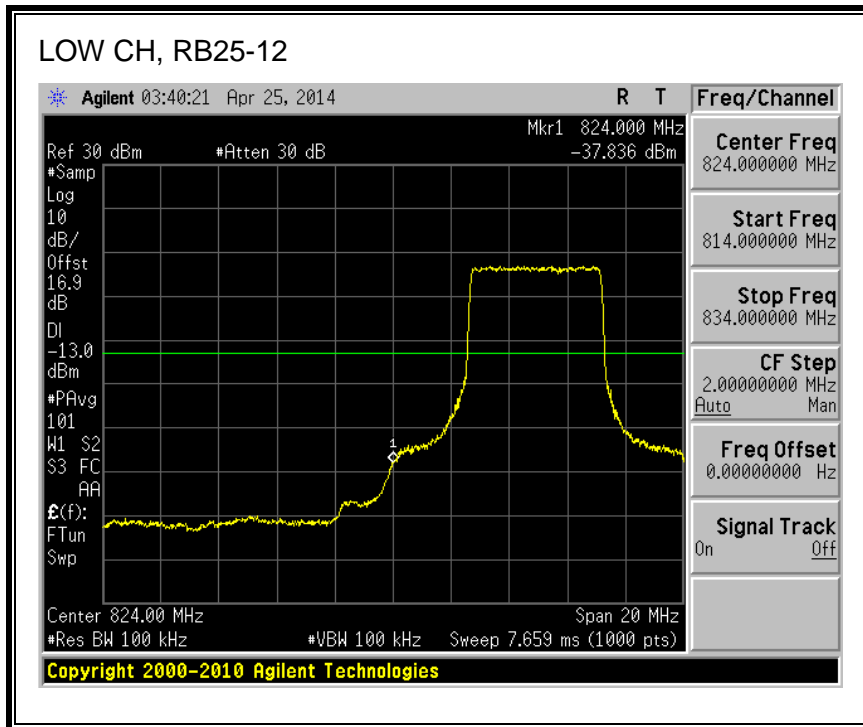


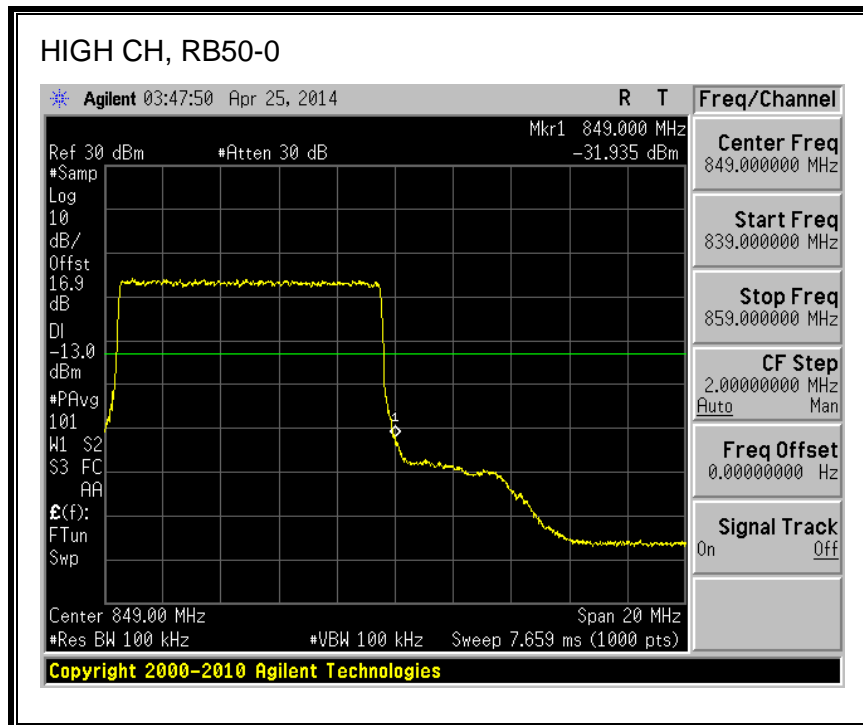
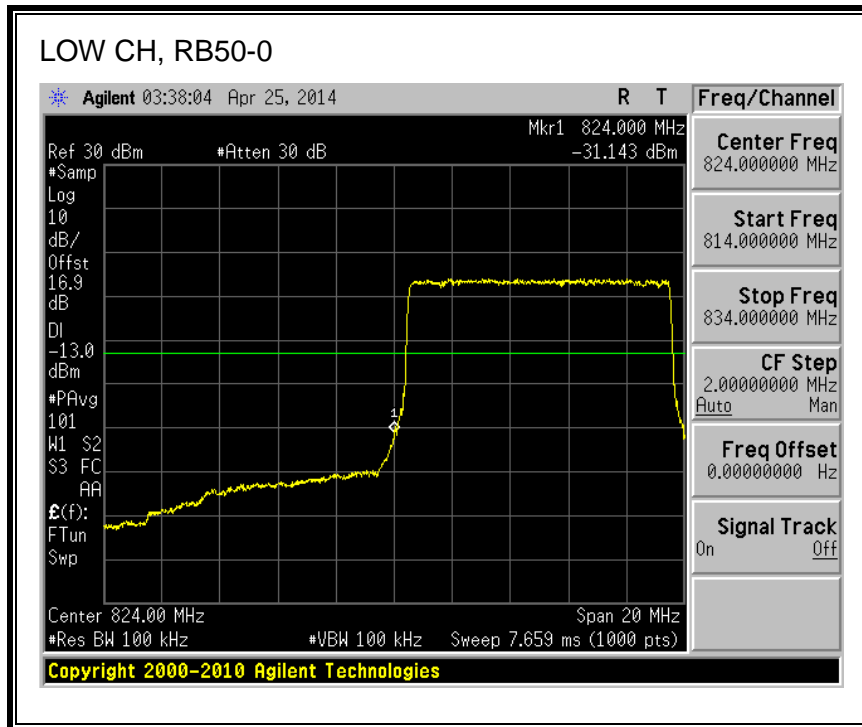


QPSK, (10.0 MHz BAND WIDTH)

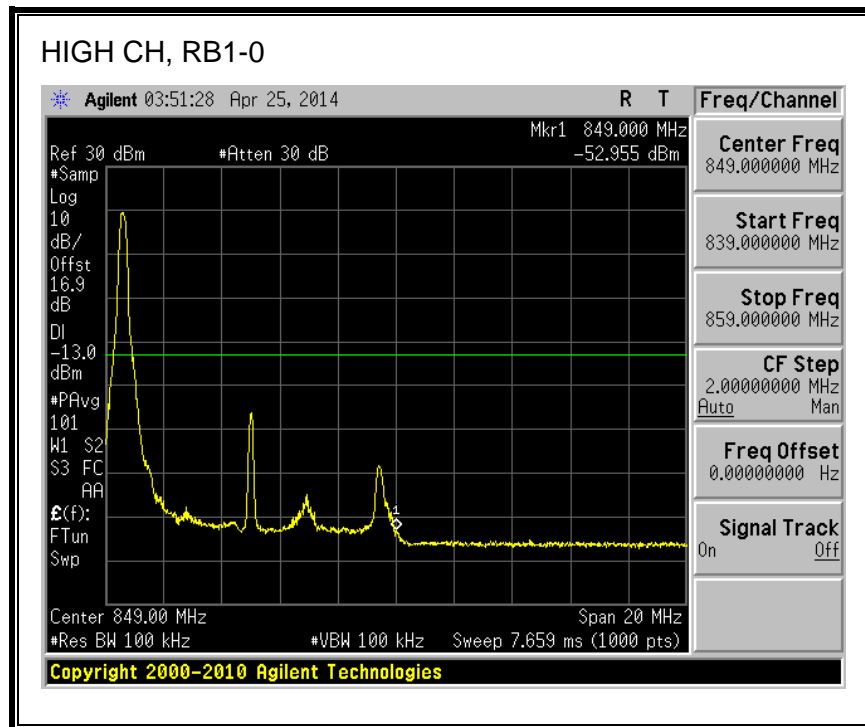
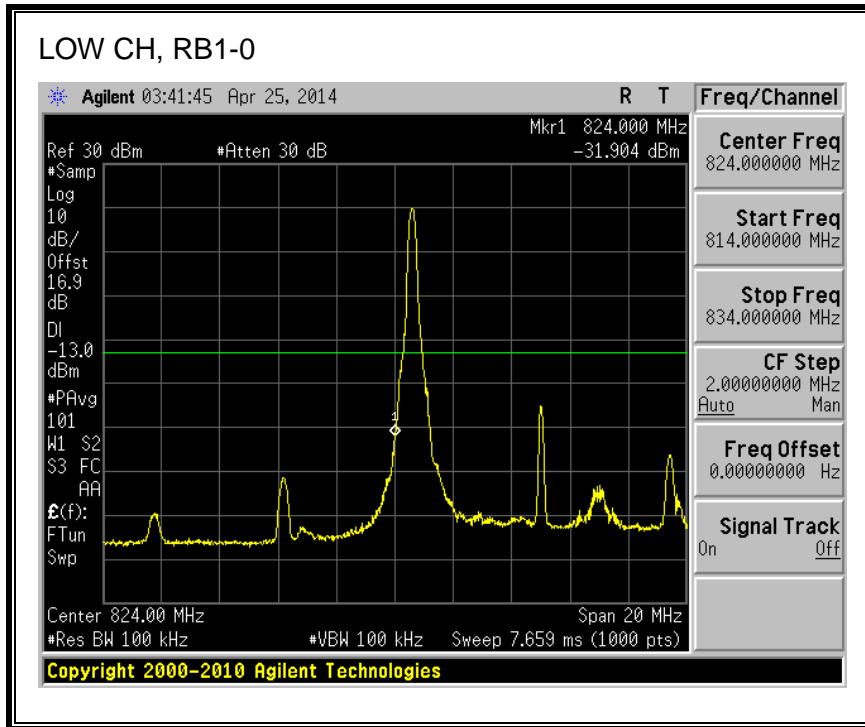


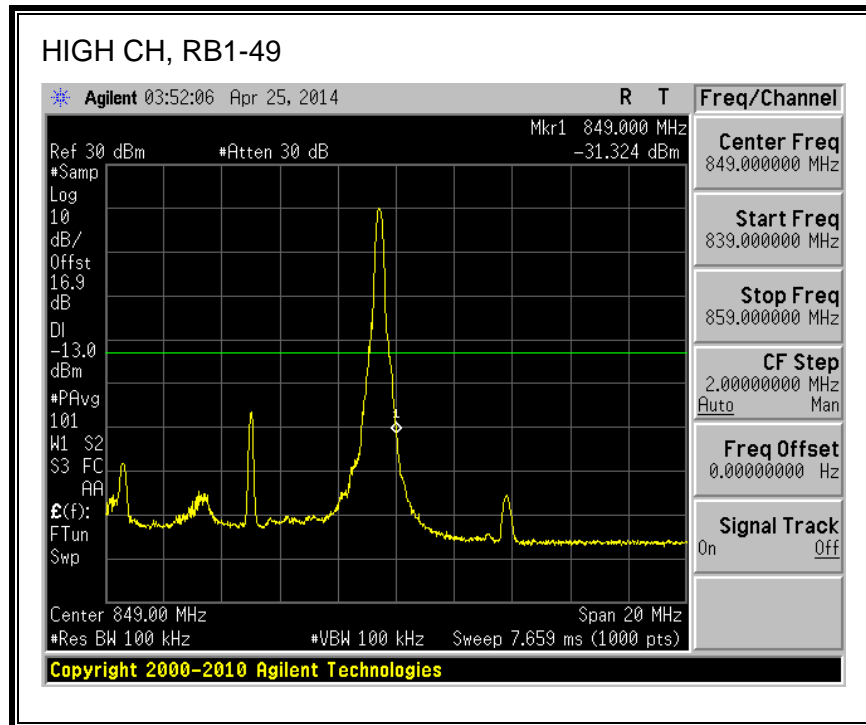
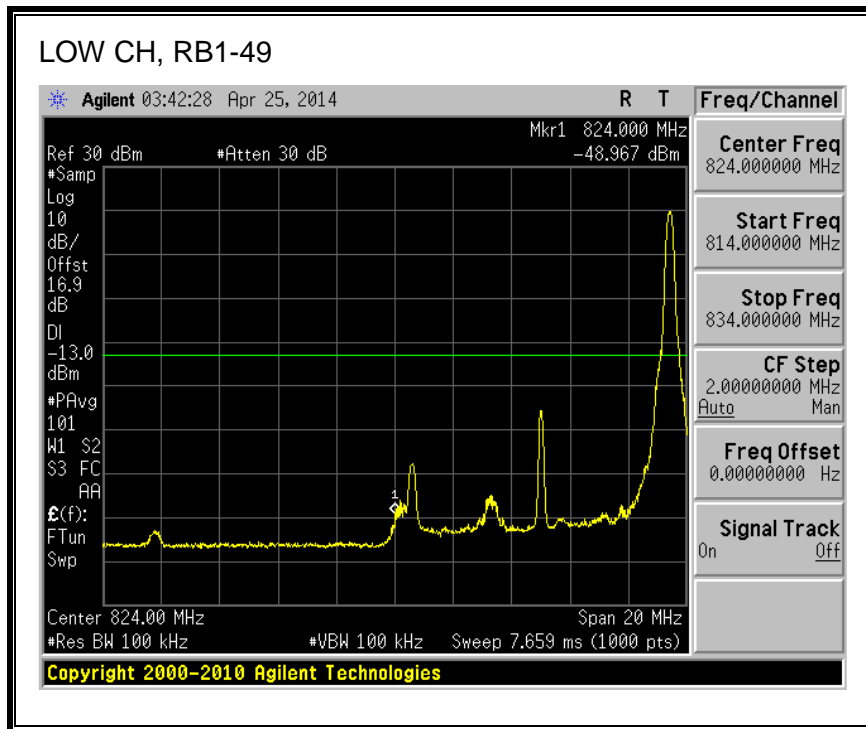


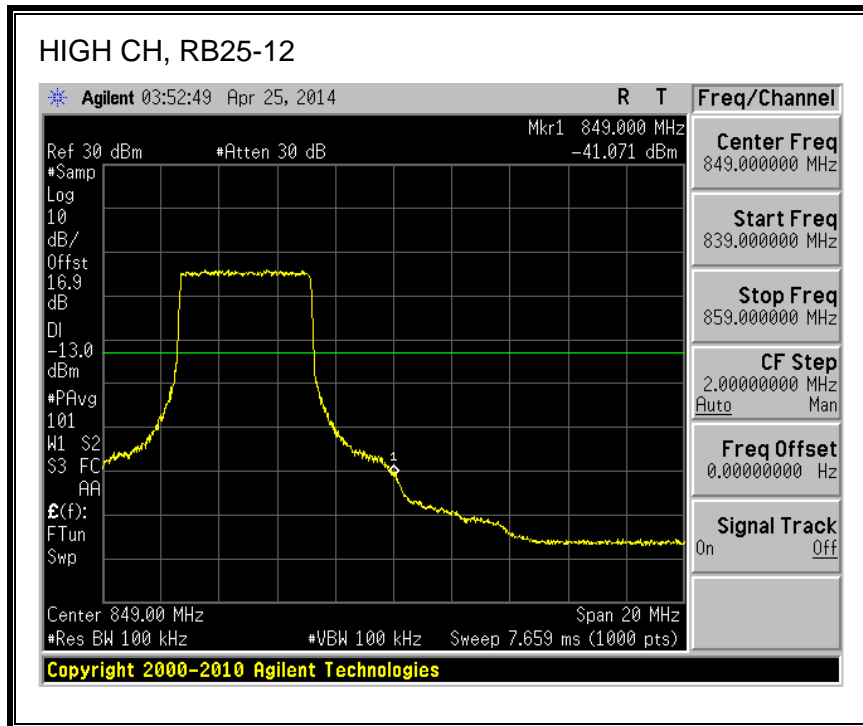
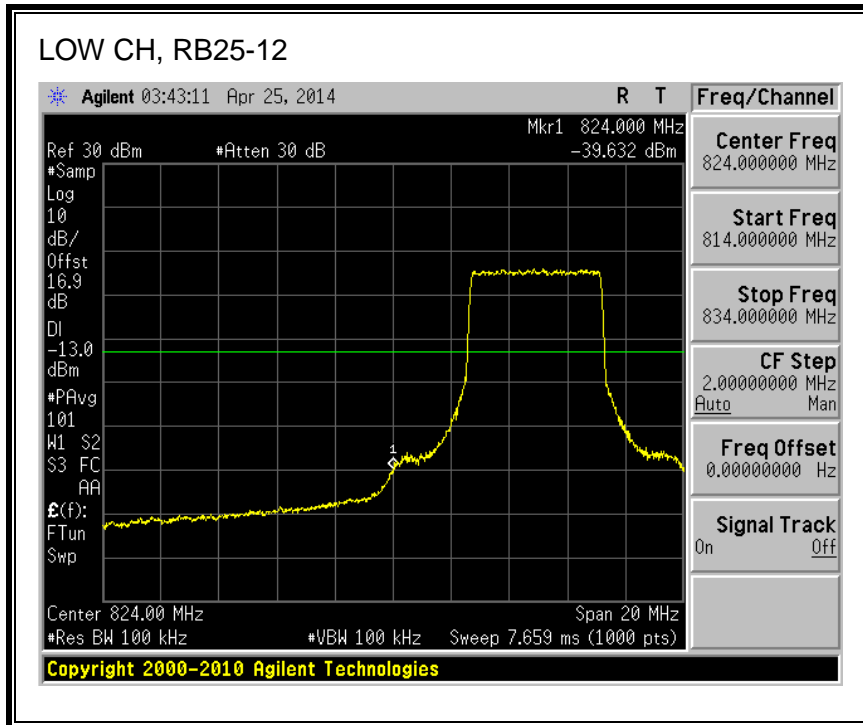


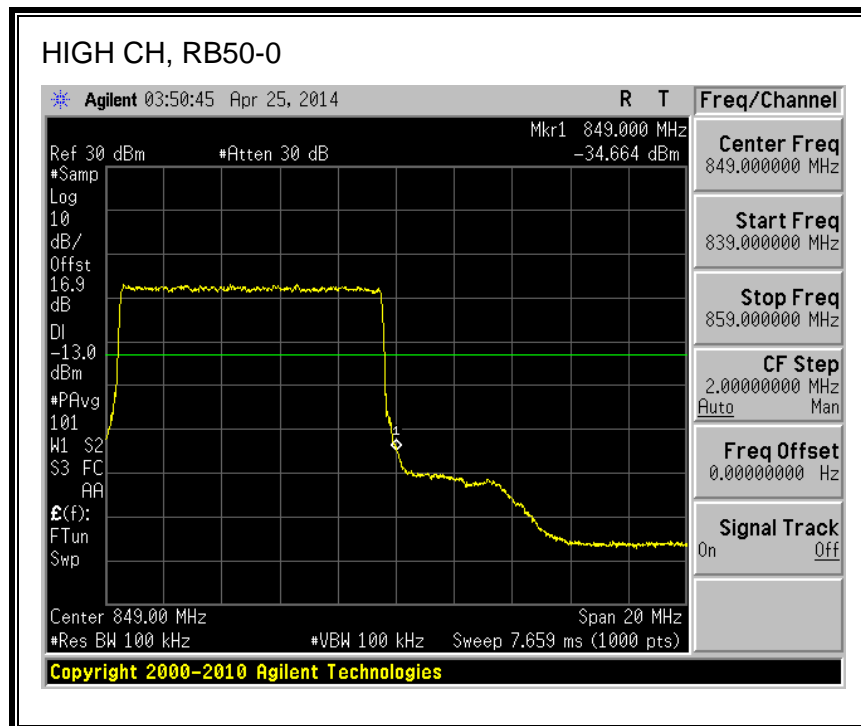
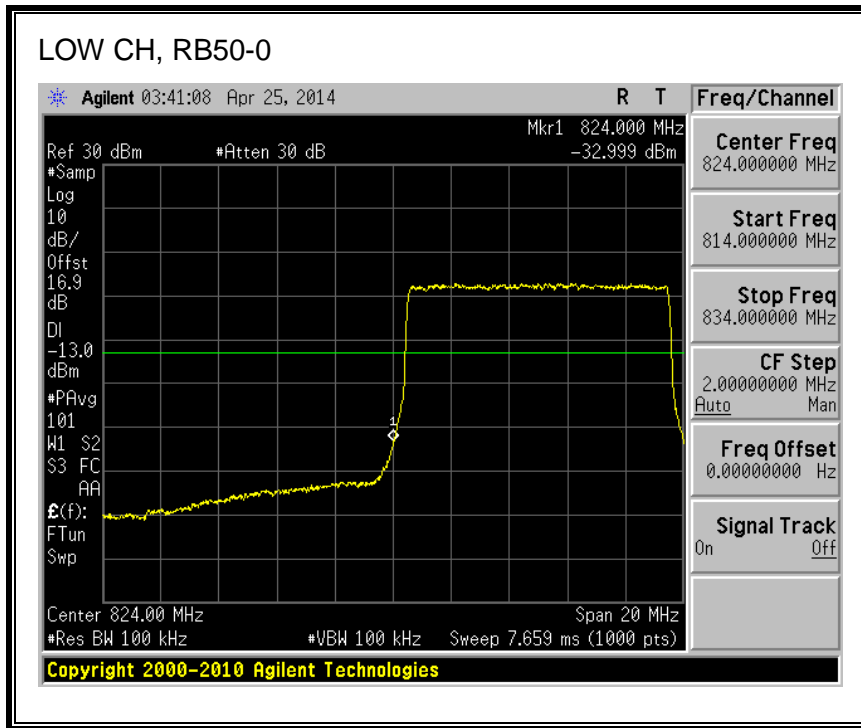


16QAM, (10.0 MHz BAND WIDTH)



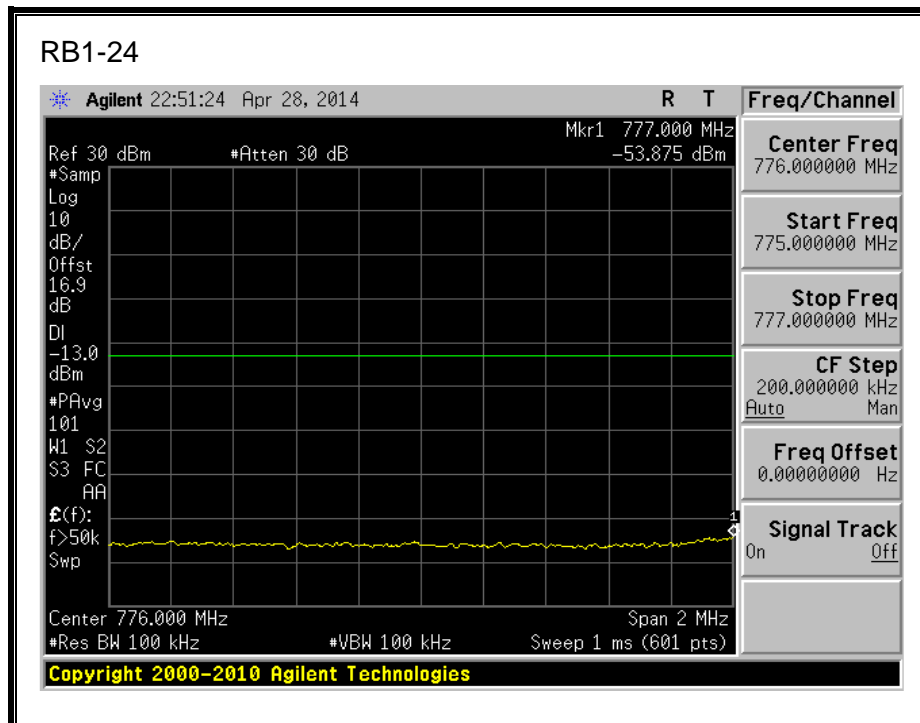
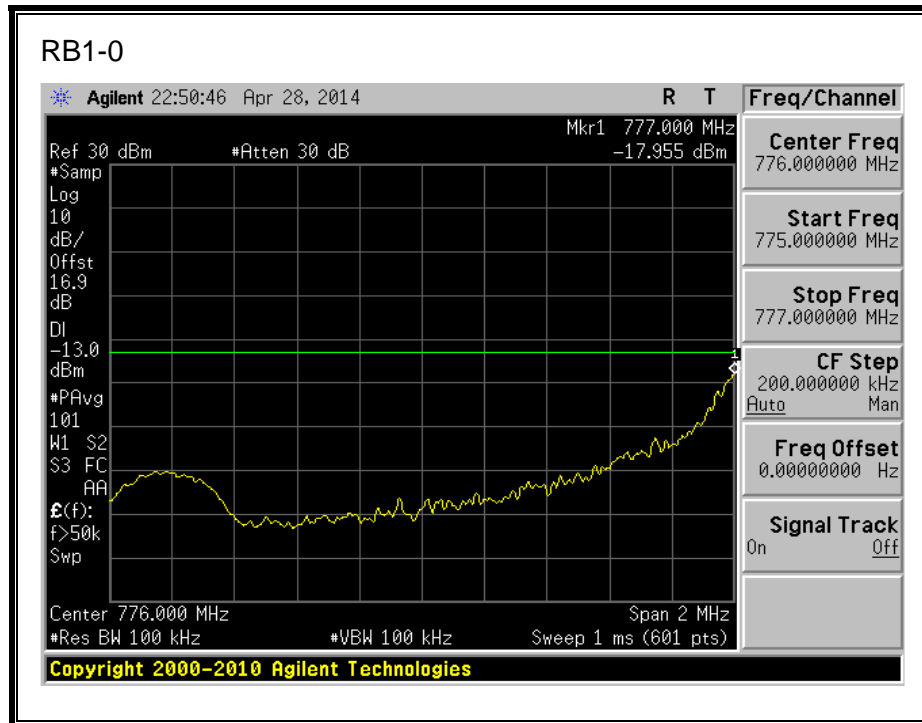


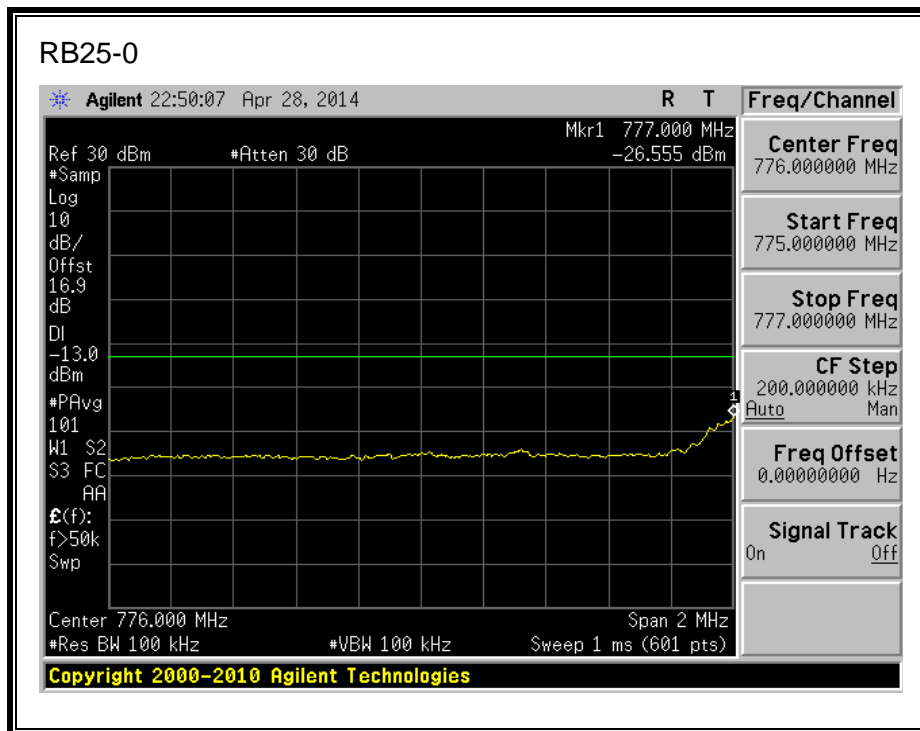
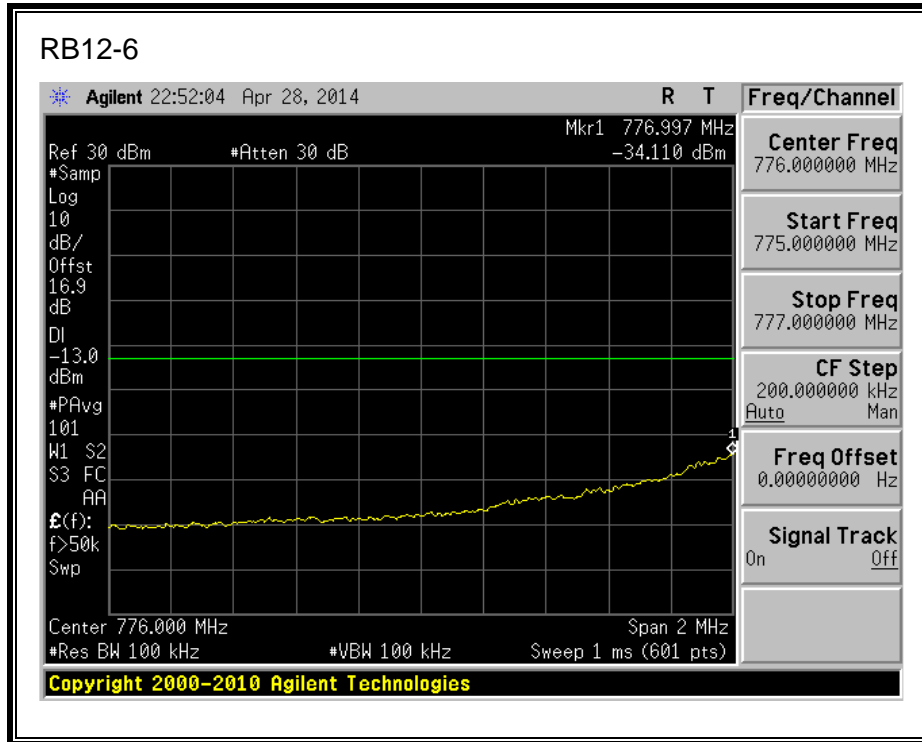




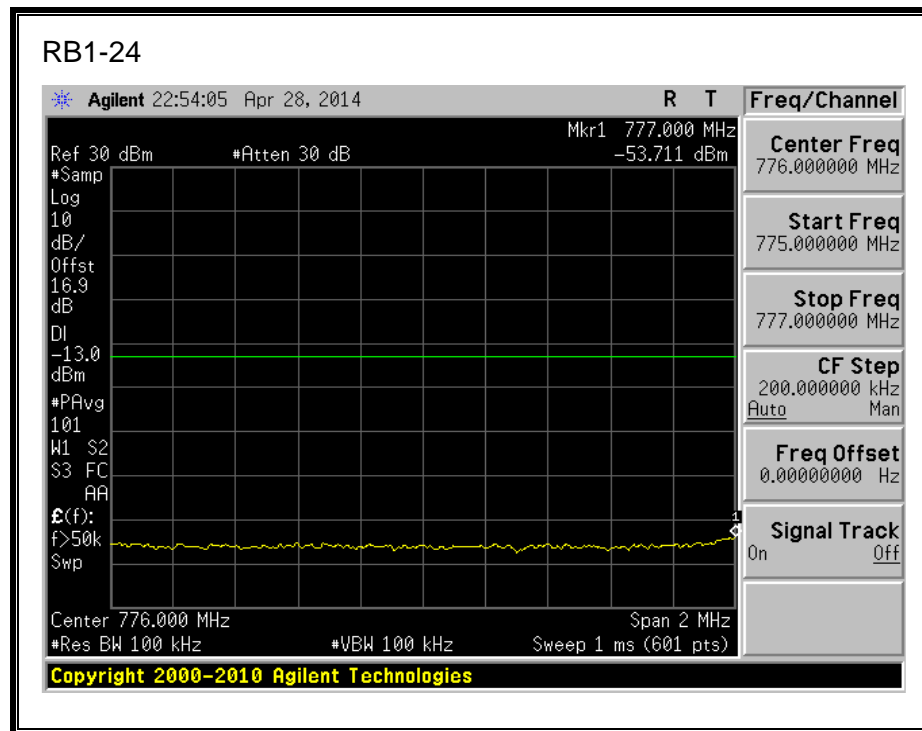
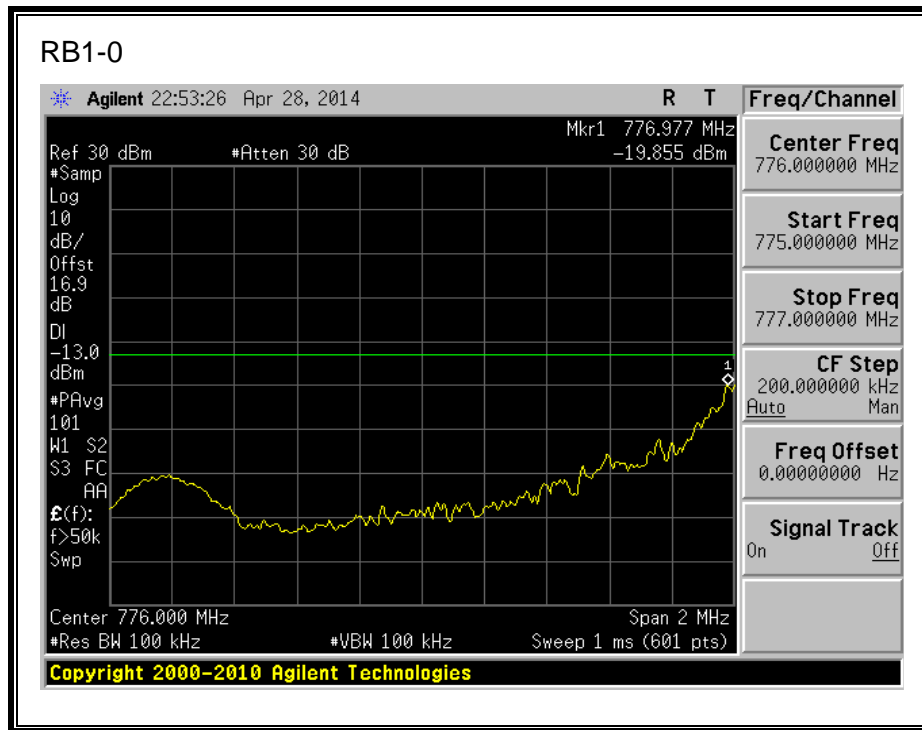
8.2.4. LTE BAND 13 BANDEDGE

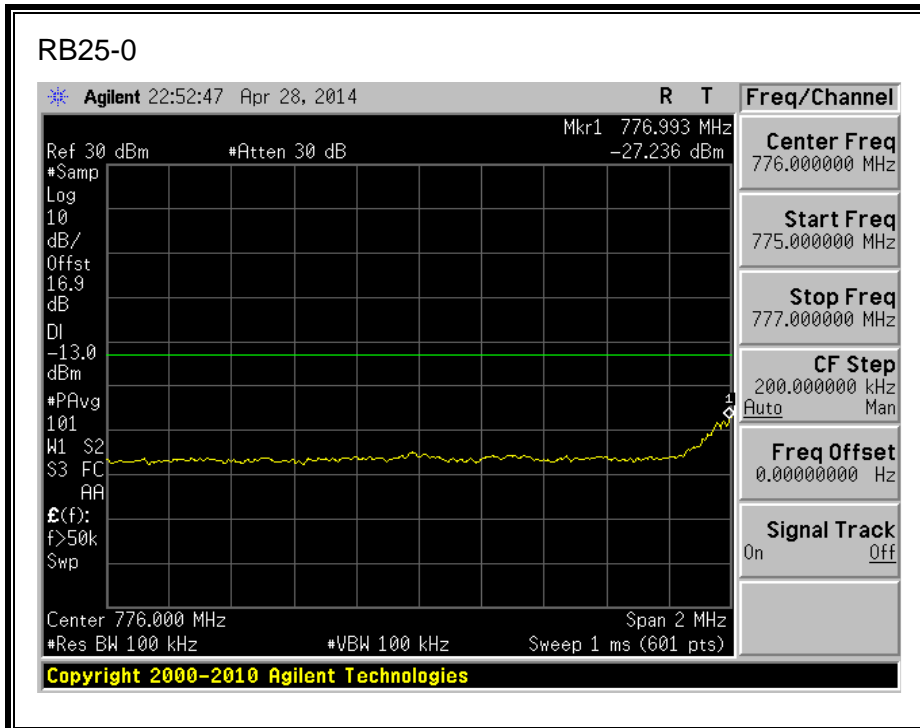
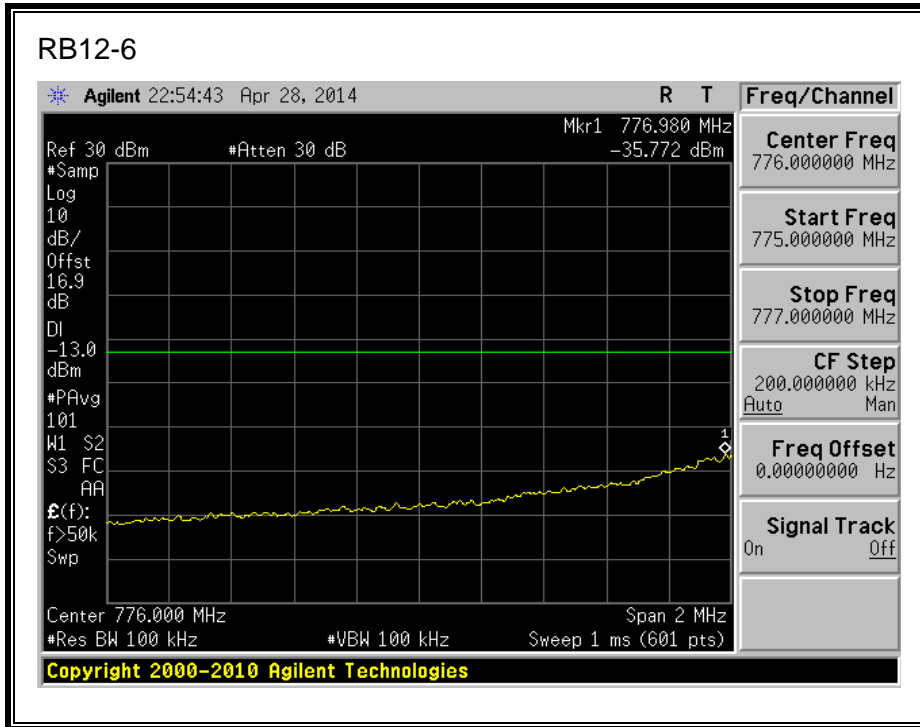
QPSK, 779.5 MHz, 775 – 777MHz, (5.0MHz Bandwidth)



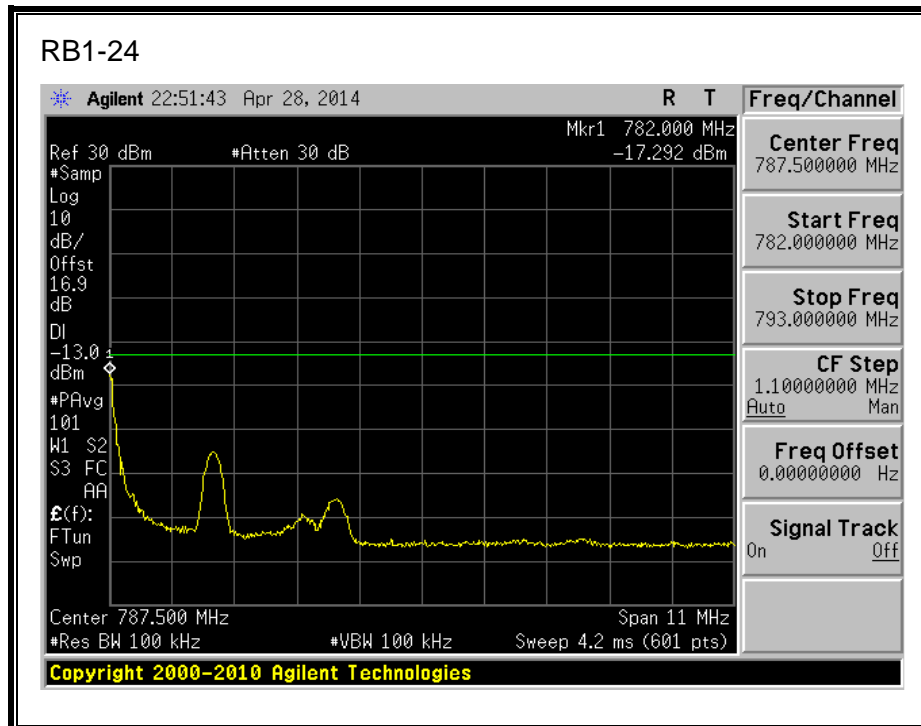
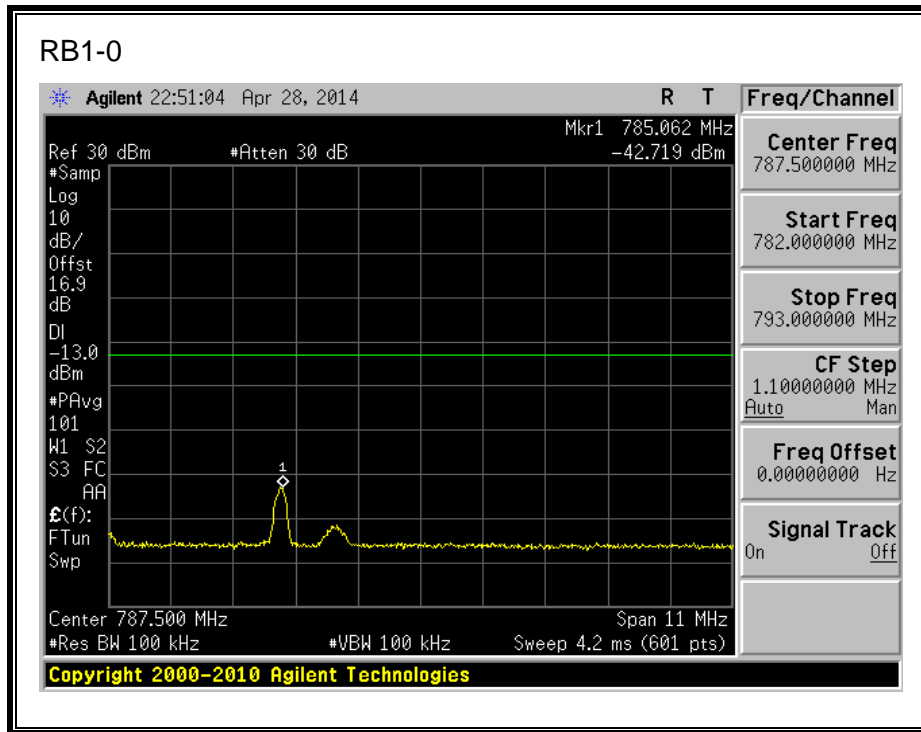


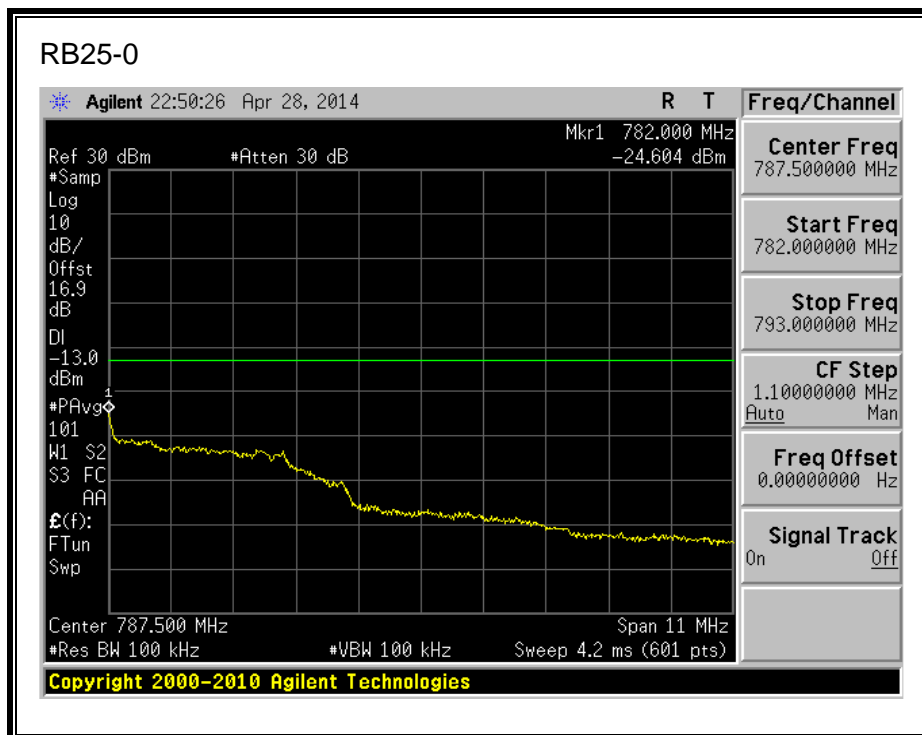
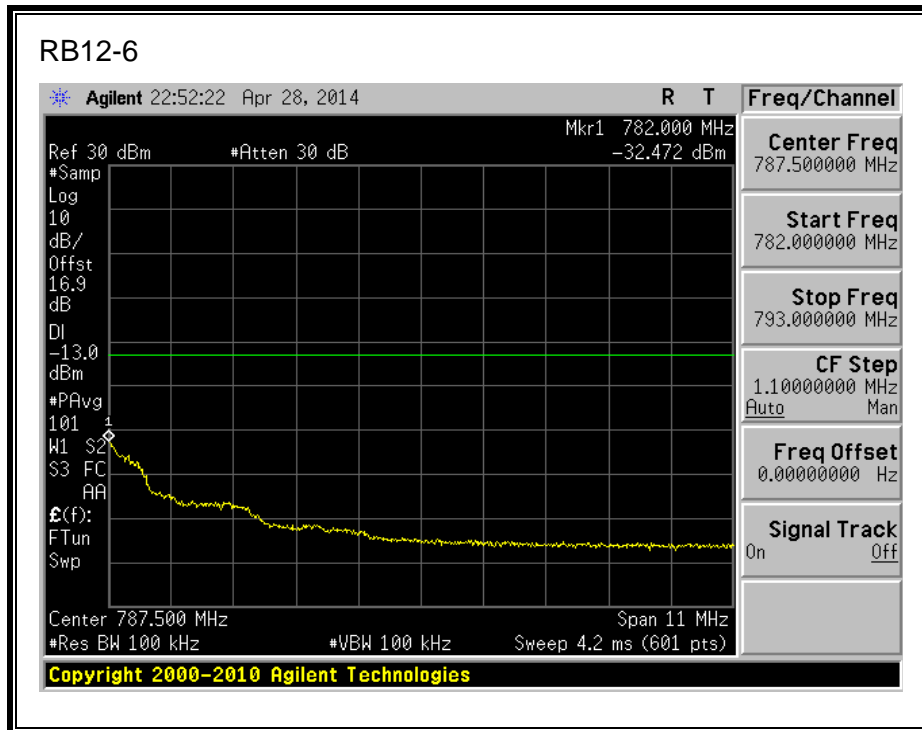
16QAM, 779.5MHz, 775 - 777MHz, (5MHz Bandwidth)



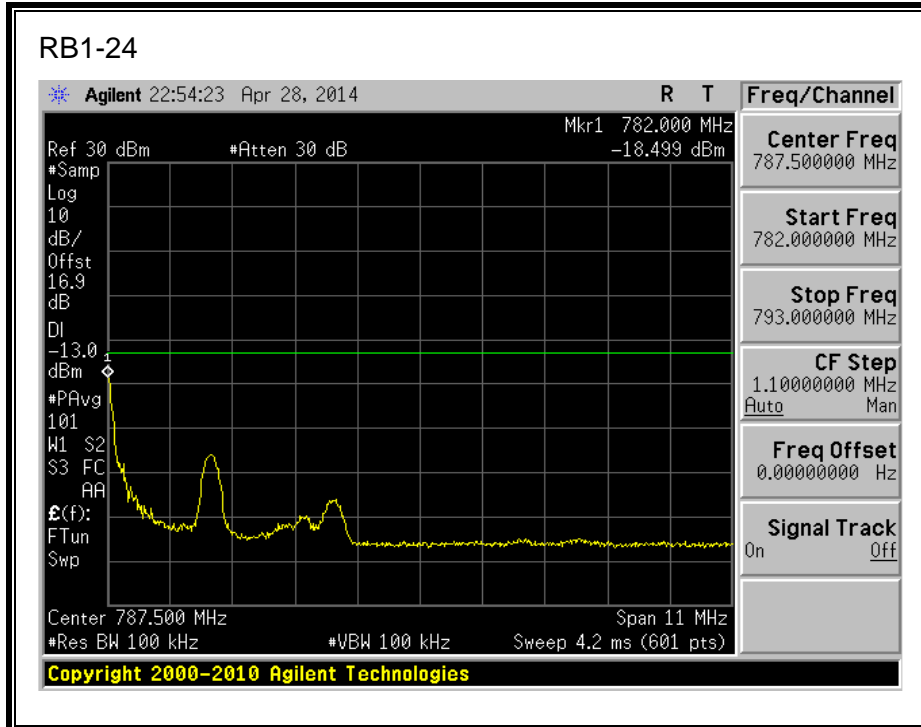
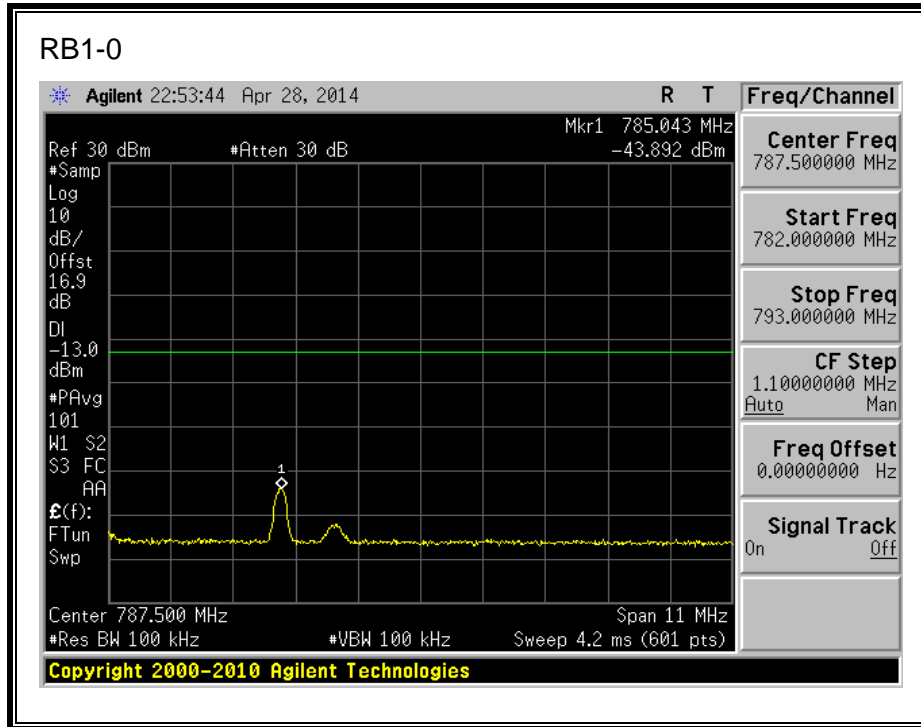


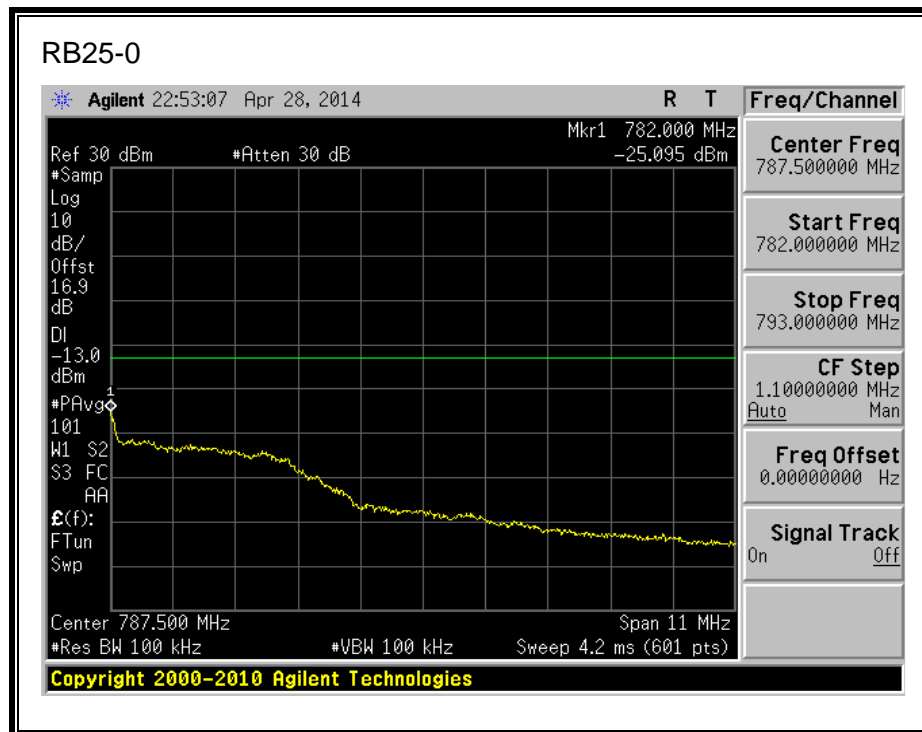
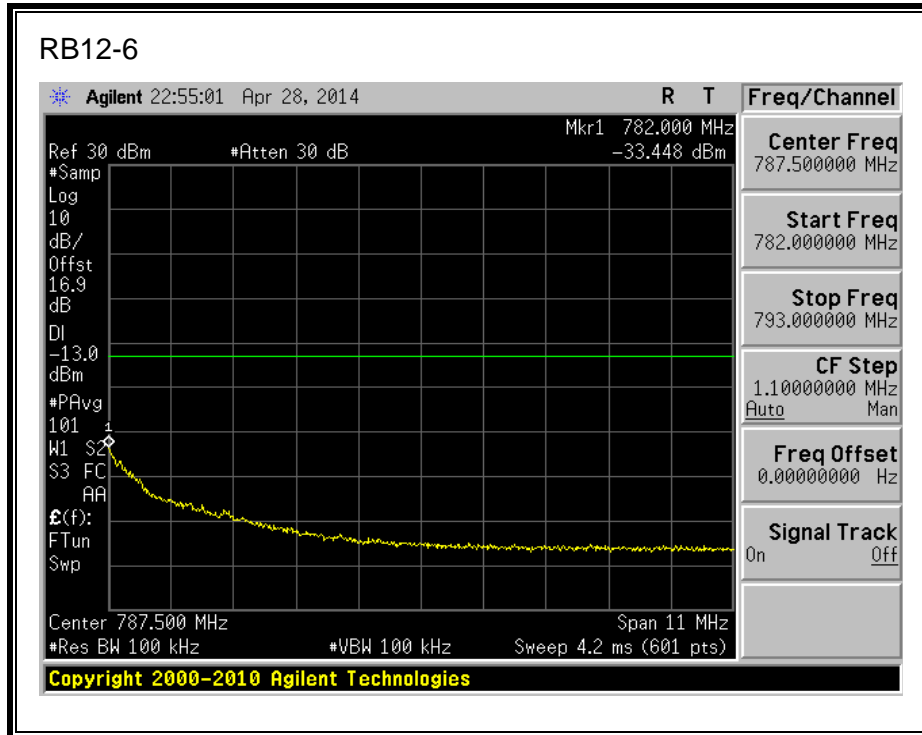
QPSK, 779.5MHz, 13, 782 - 793MHz, (5MHz Bandwidth)



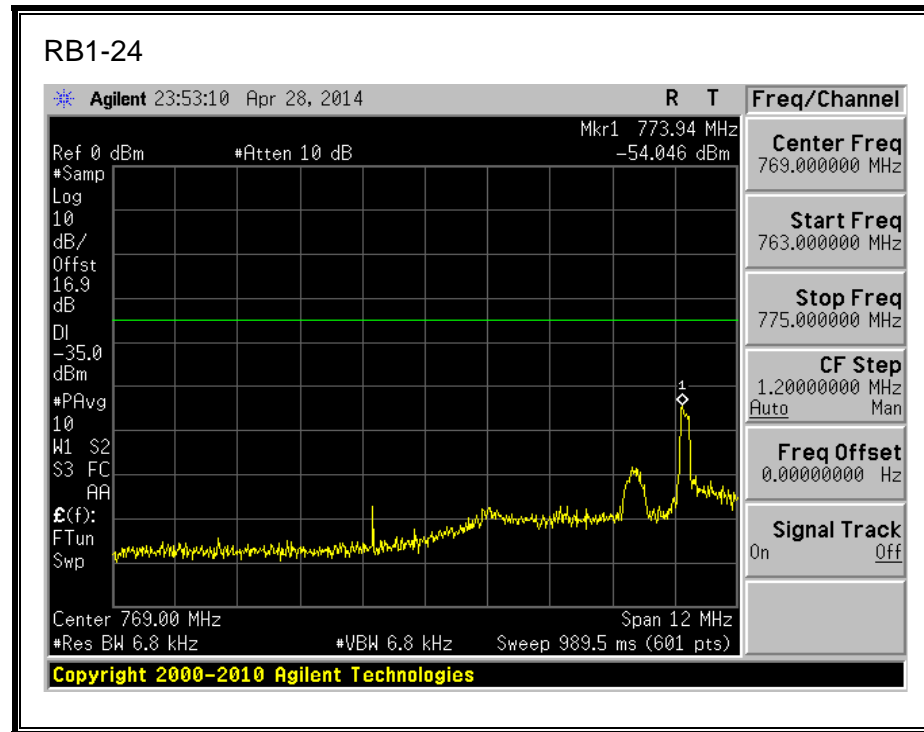
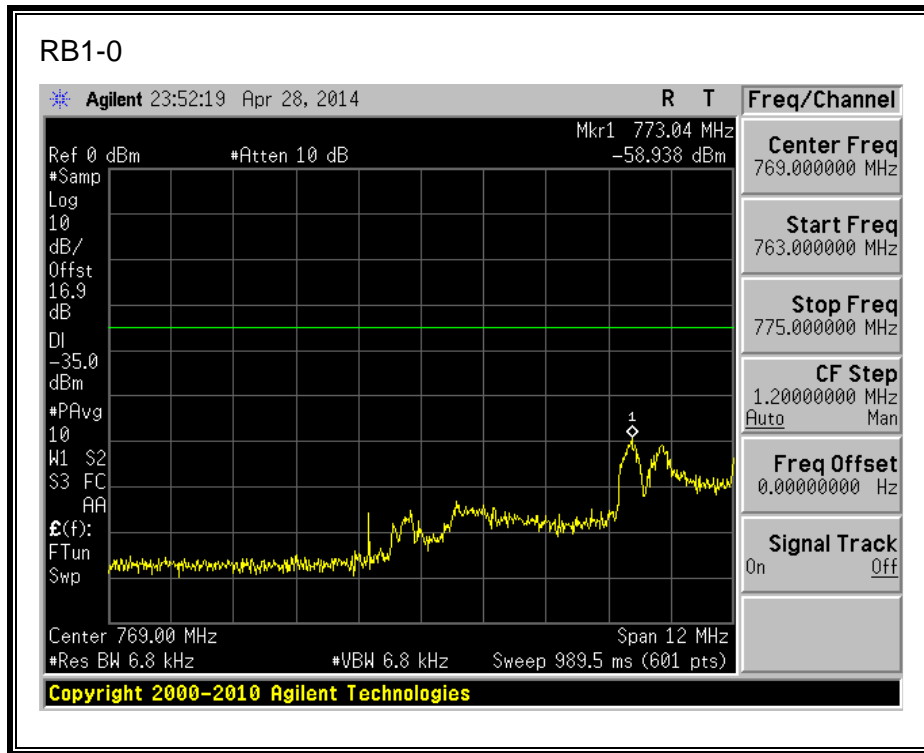


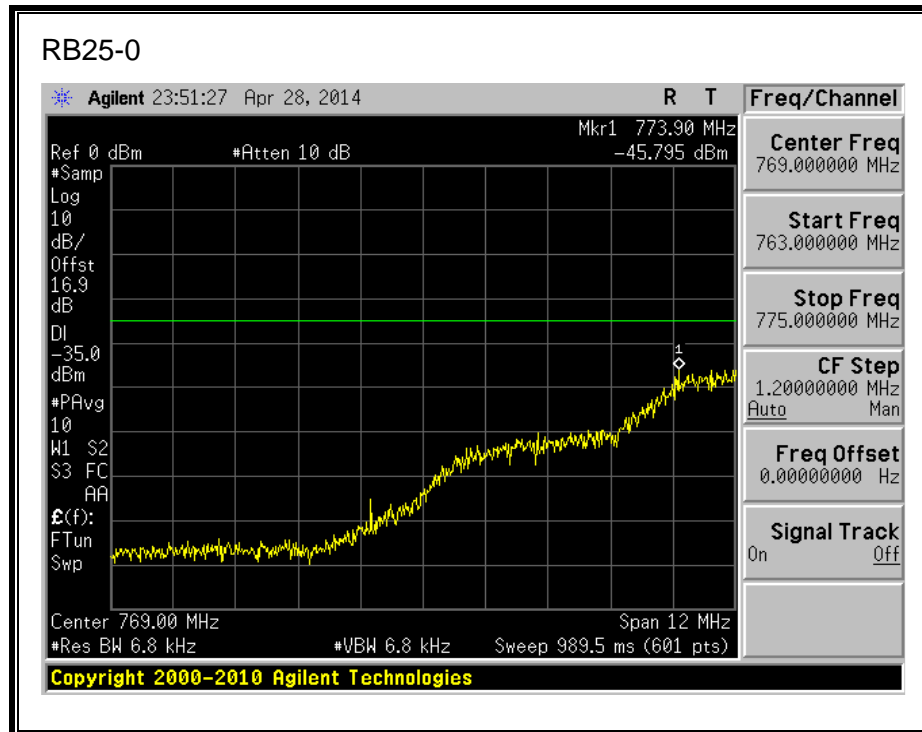
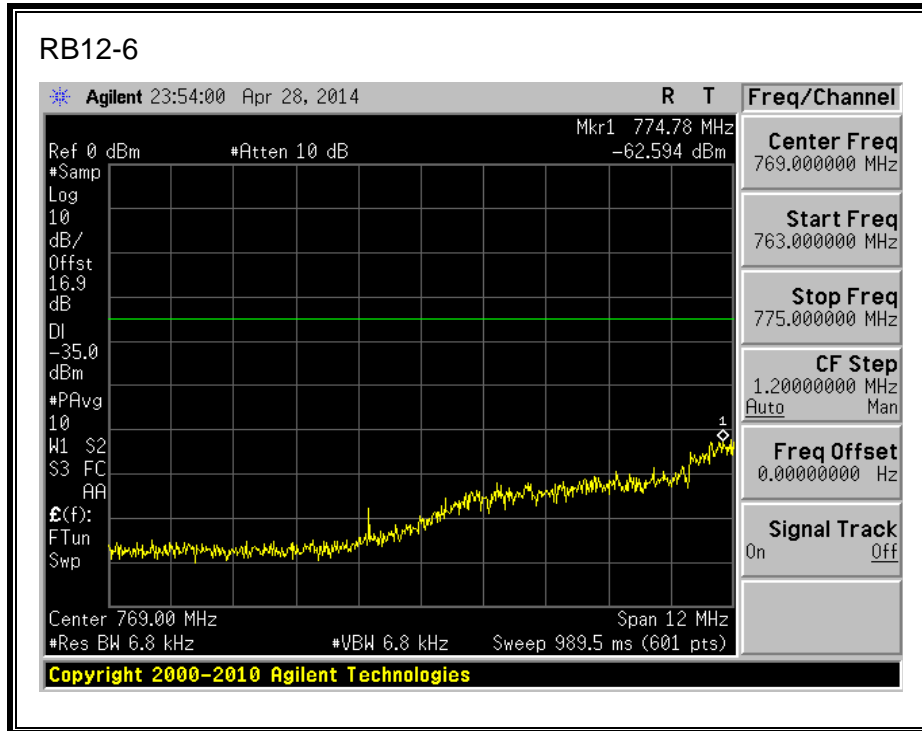
16QAM, 779.5MHz, 783 - 793MHz, (5MHz Bandwidth)



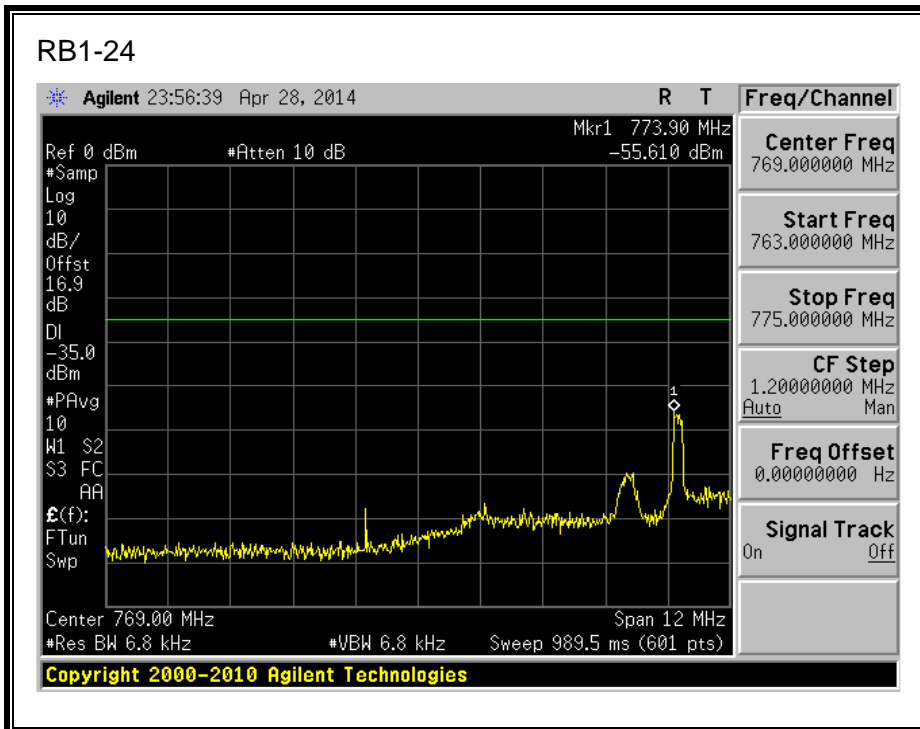
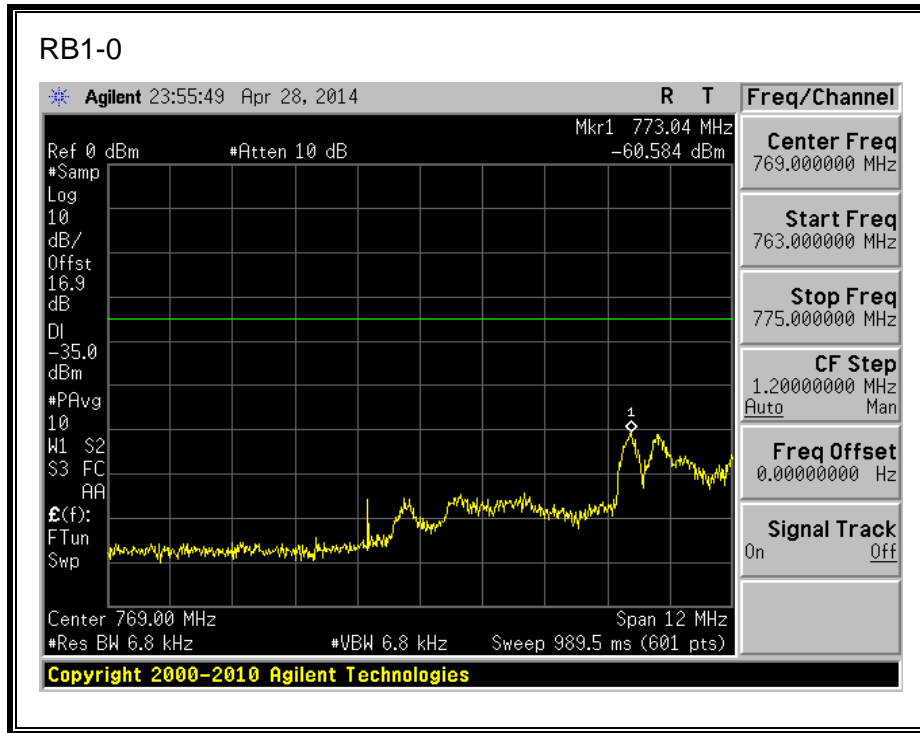


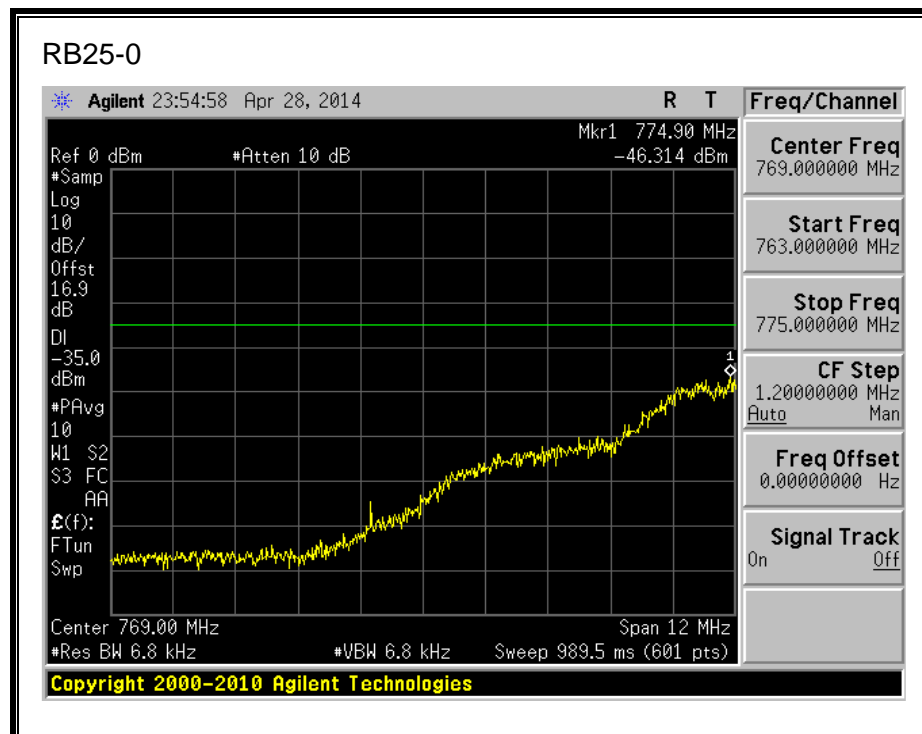
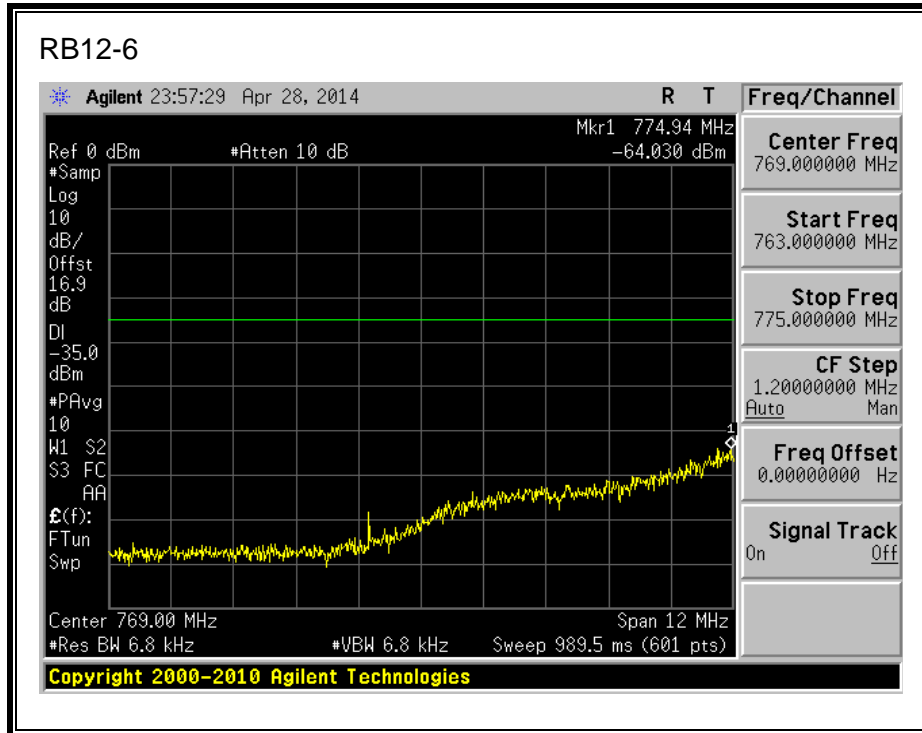
QPSK, 779.5MHz, 763 - 775MHz, (5MHz Bandwidth)



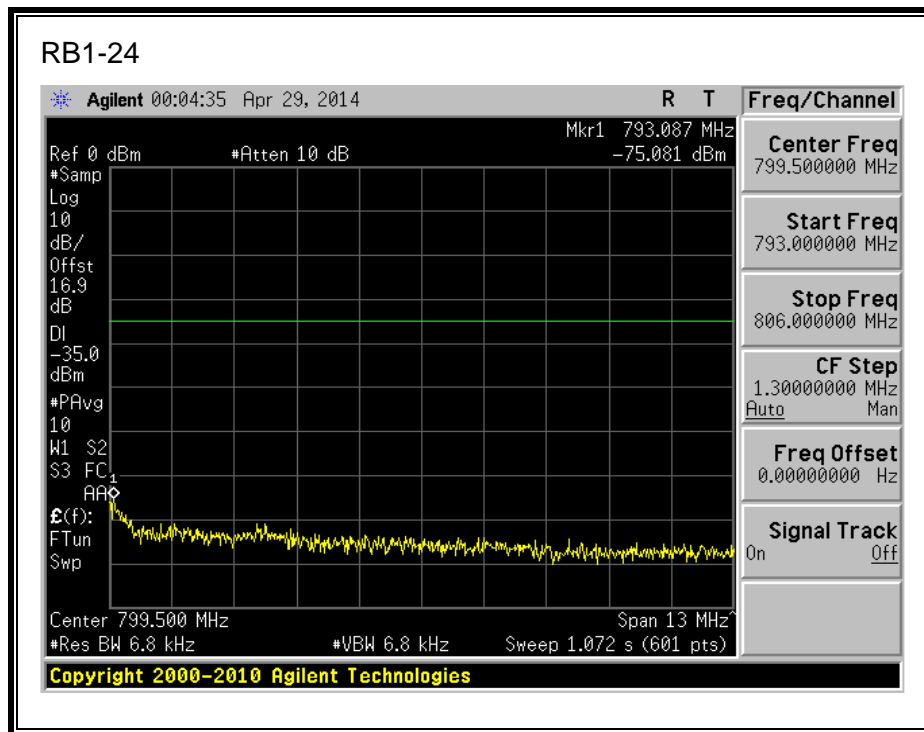
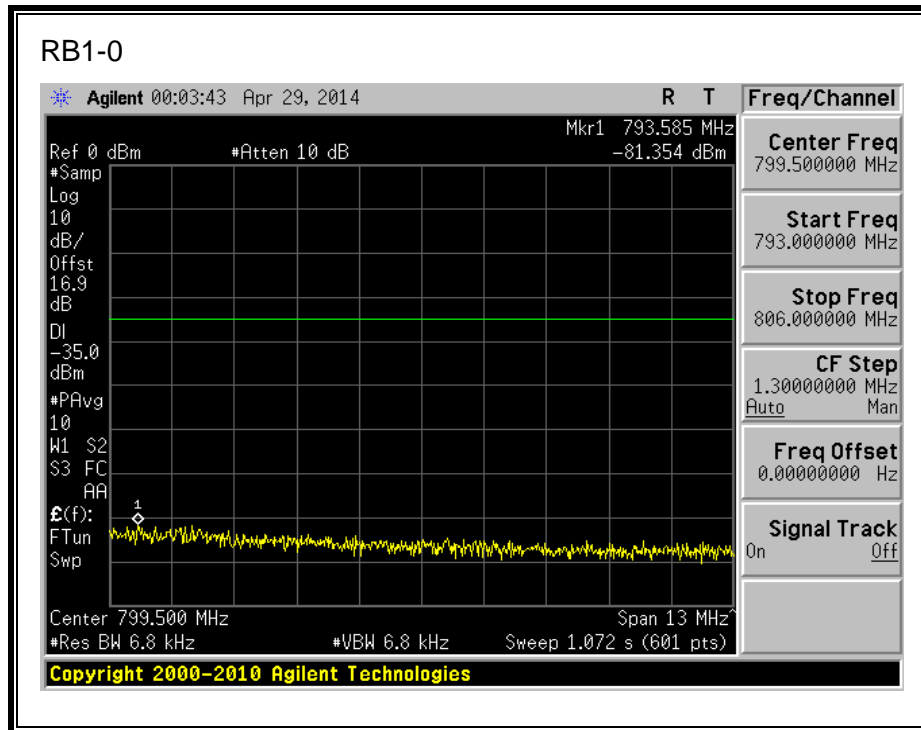


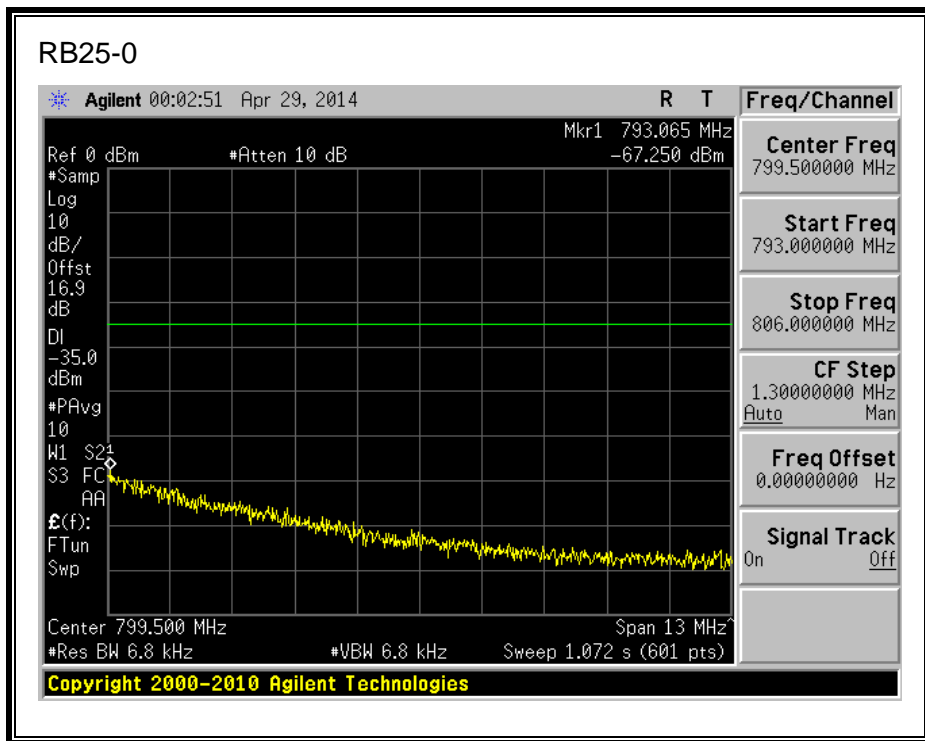
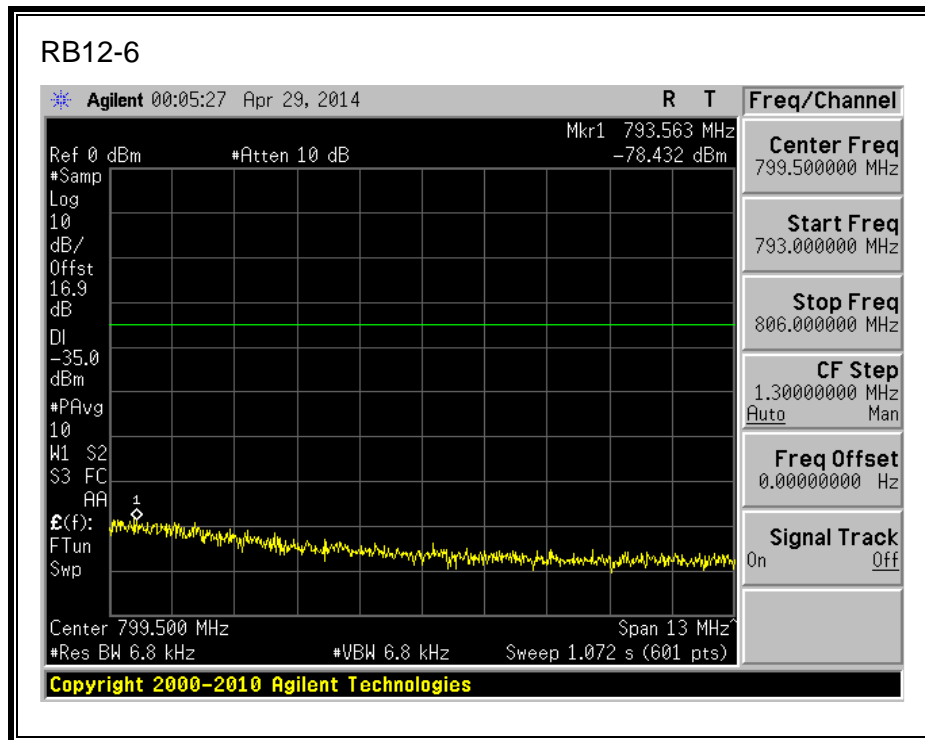
16QAM, 779.5MHz, 763-775MHz, (5MHz Bandwidth)



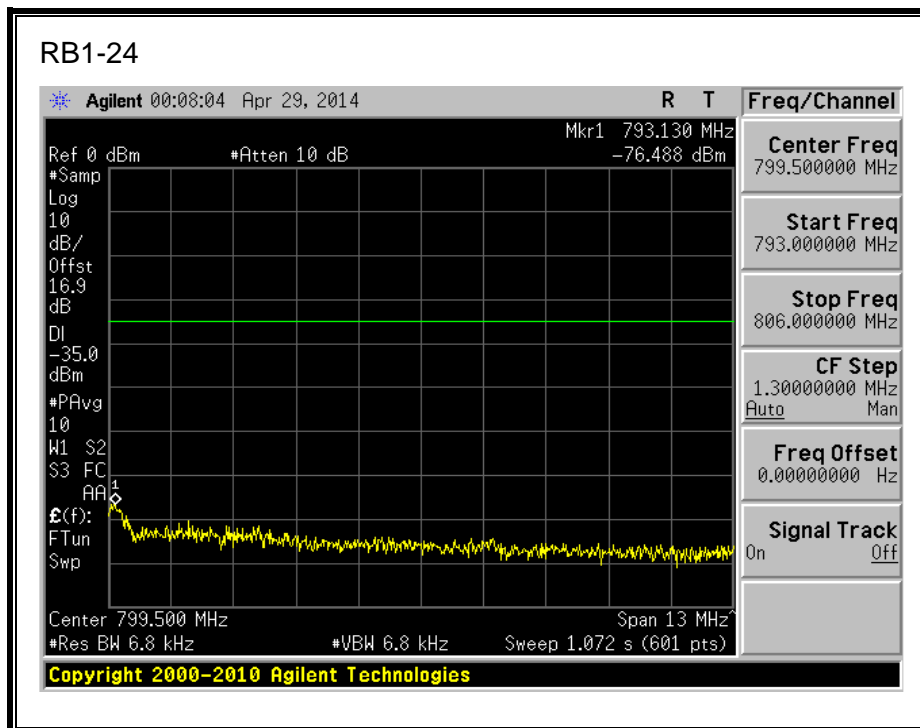
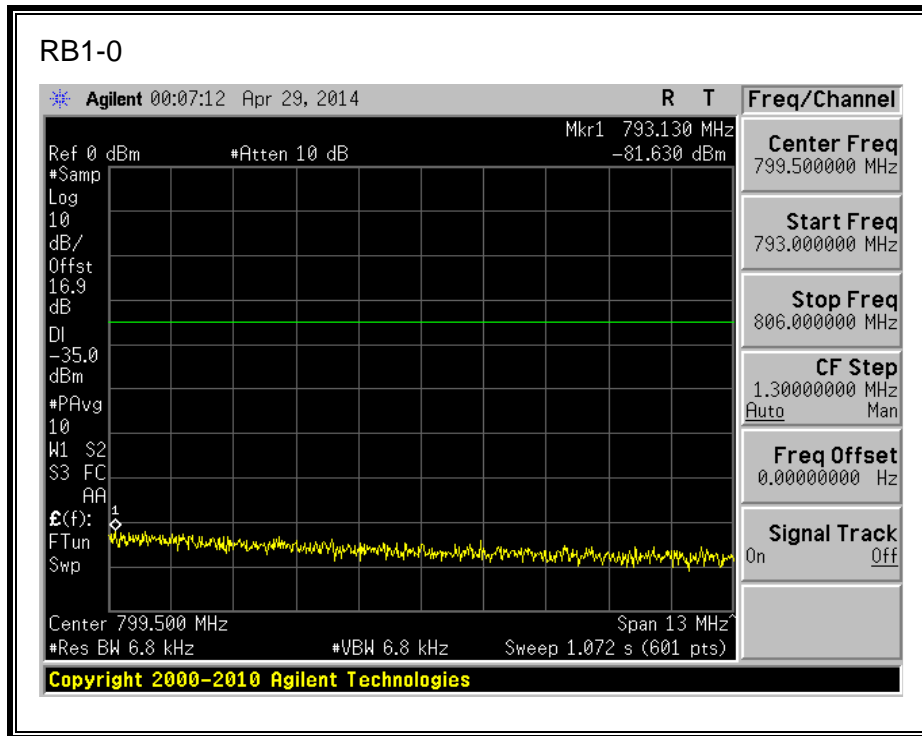


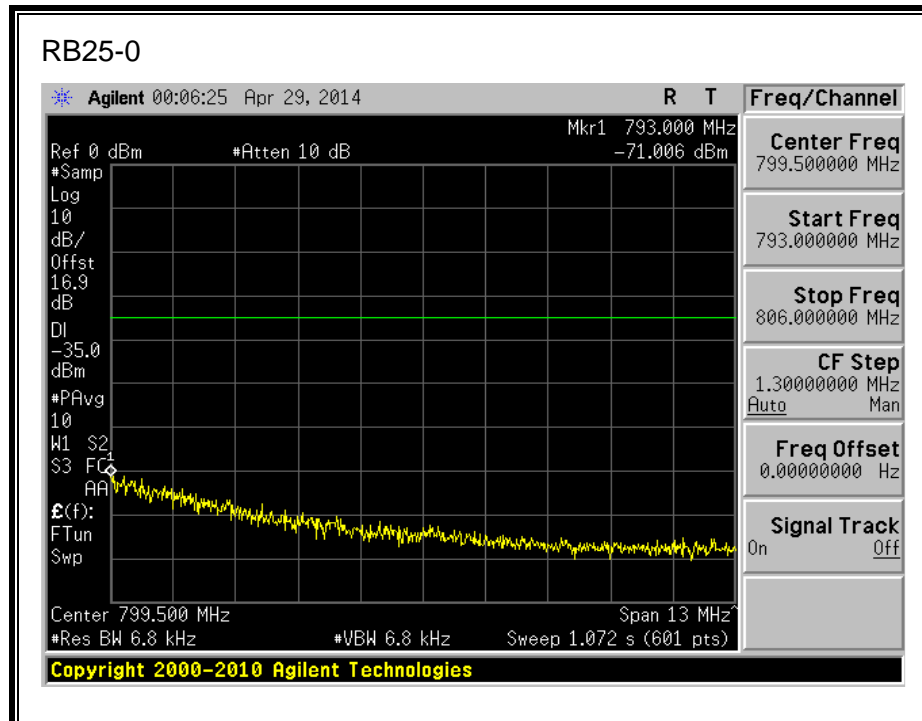
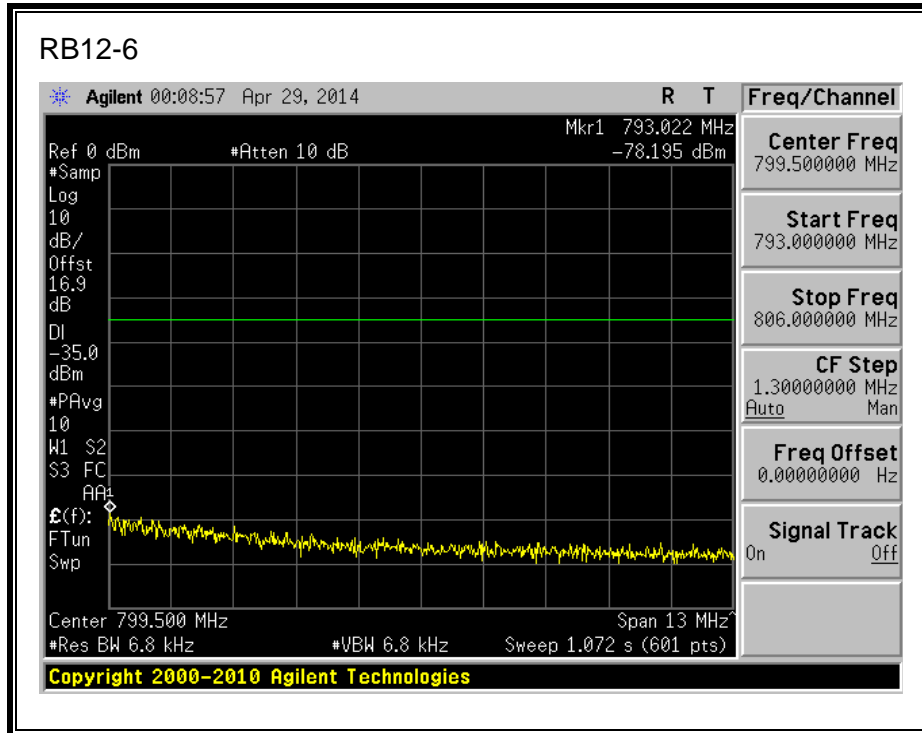
QPSK, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)



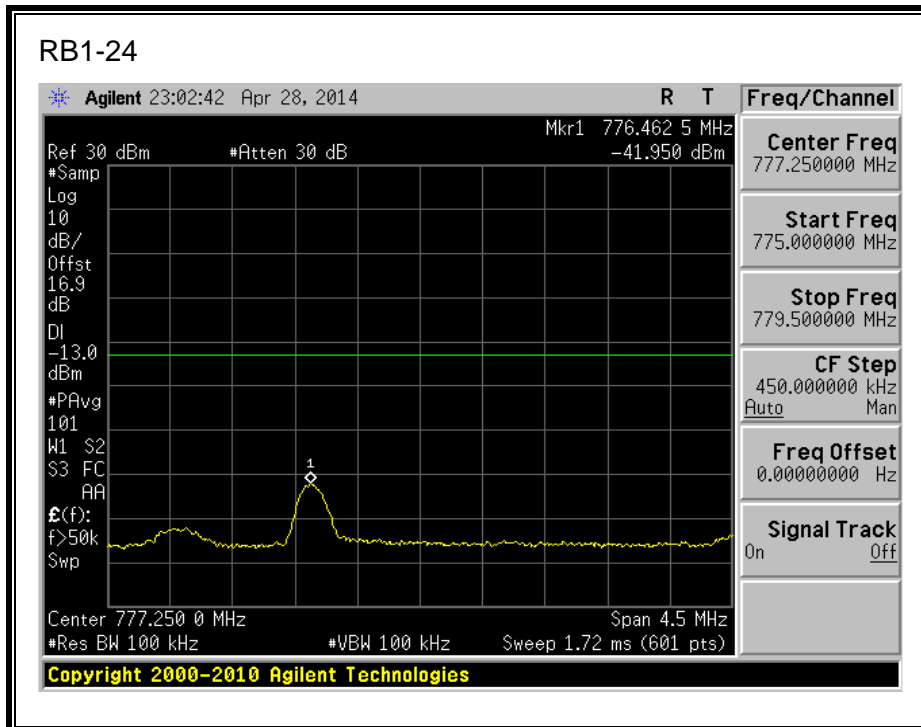
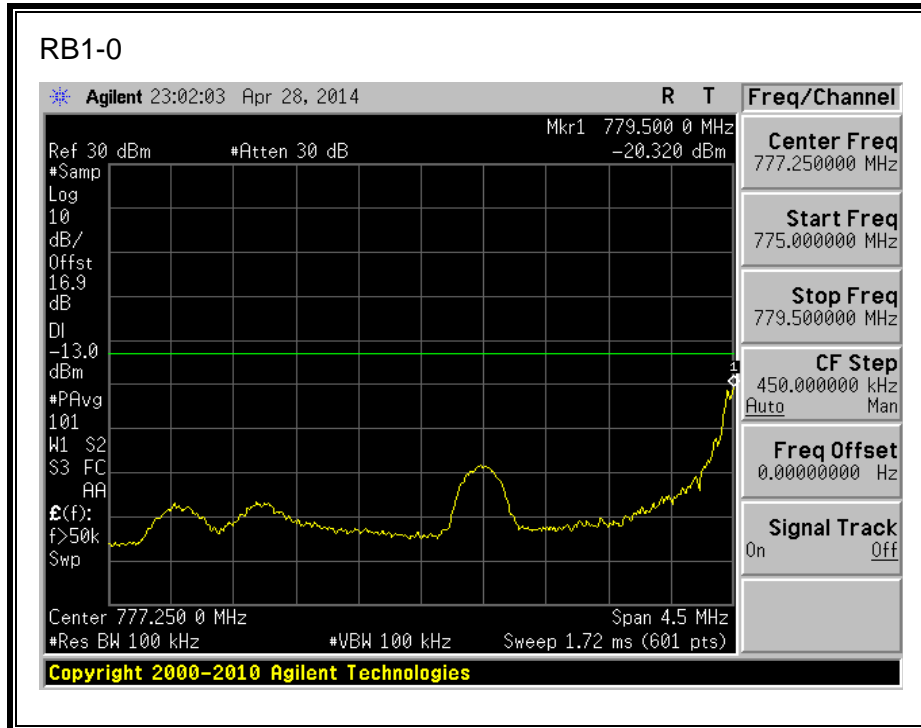


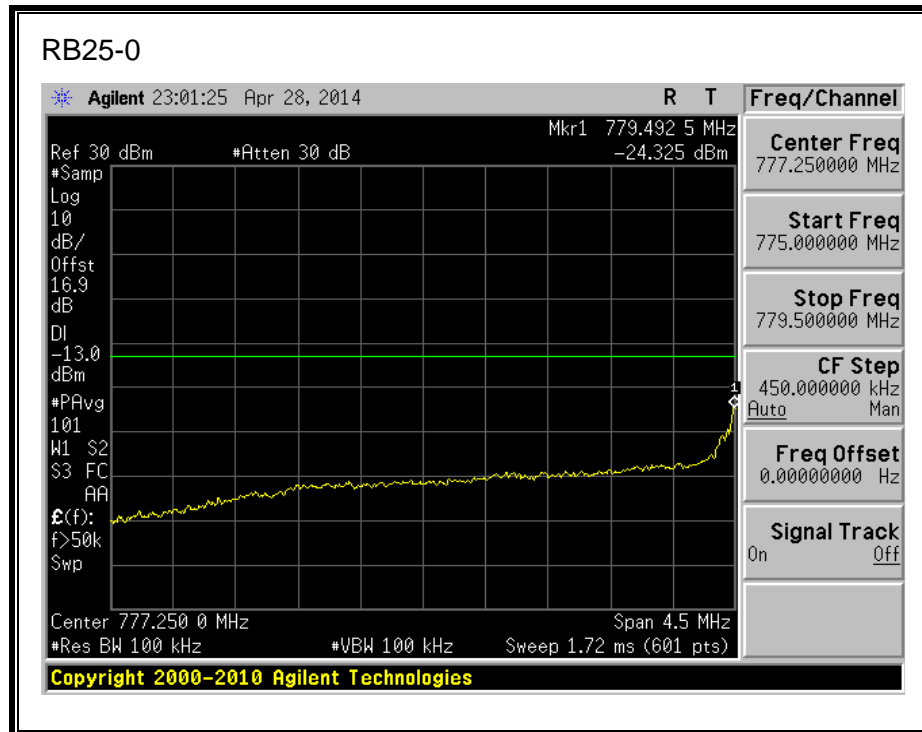
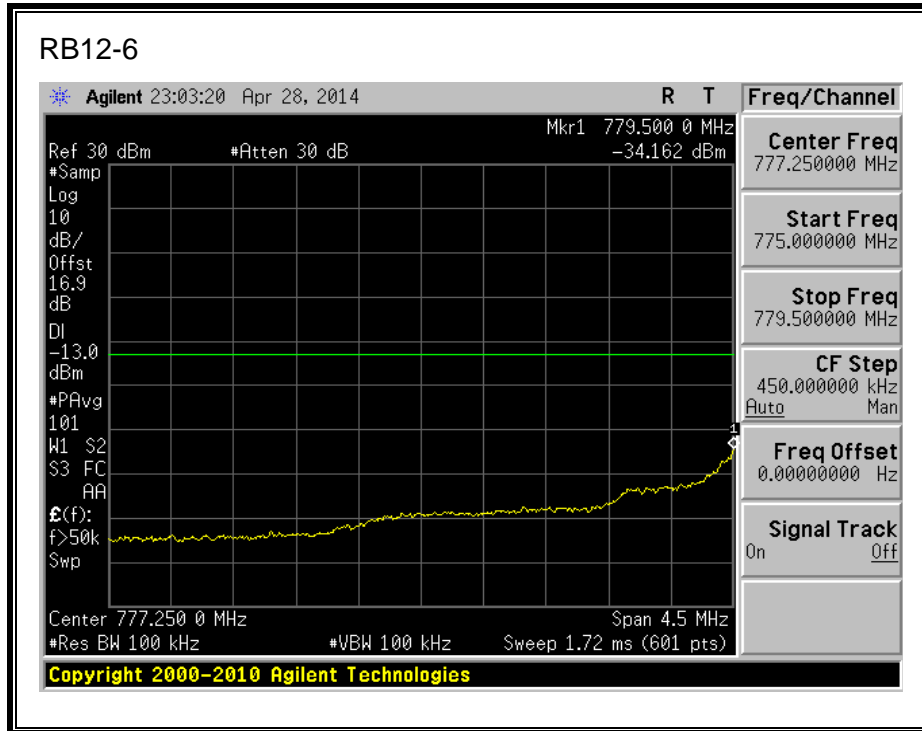
16QAM, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)



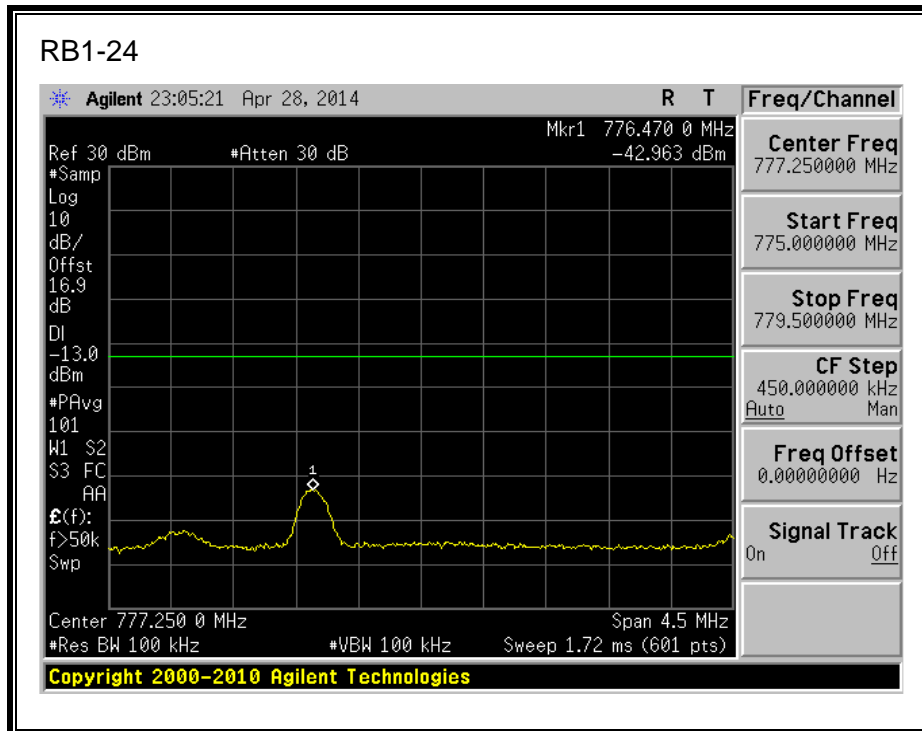
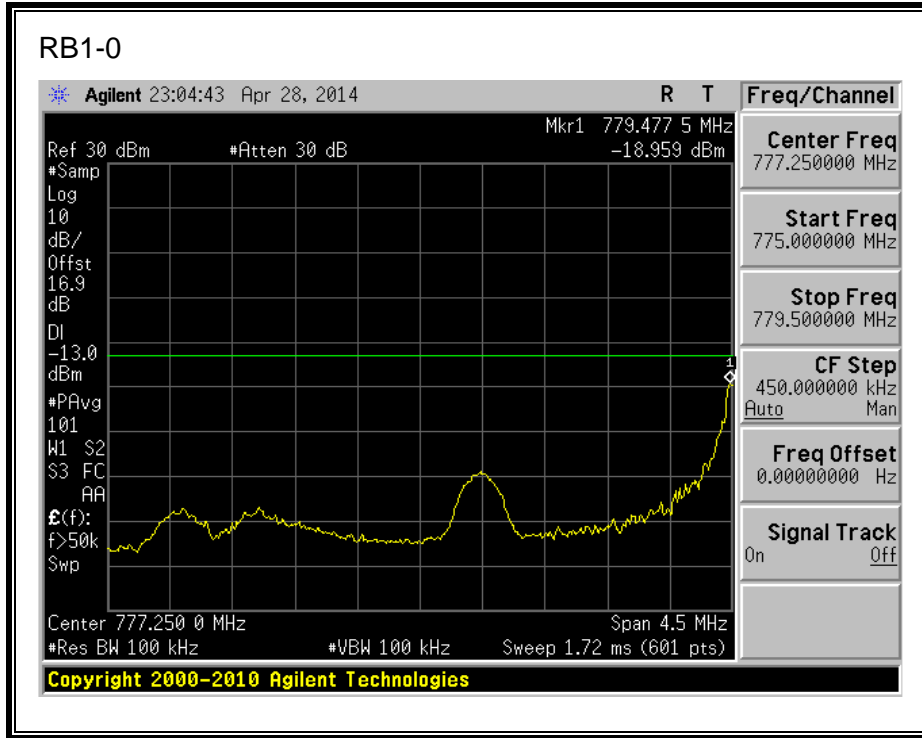


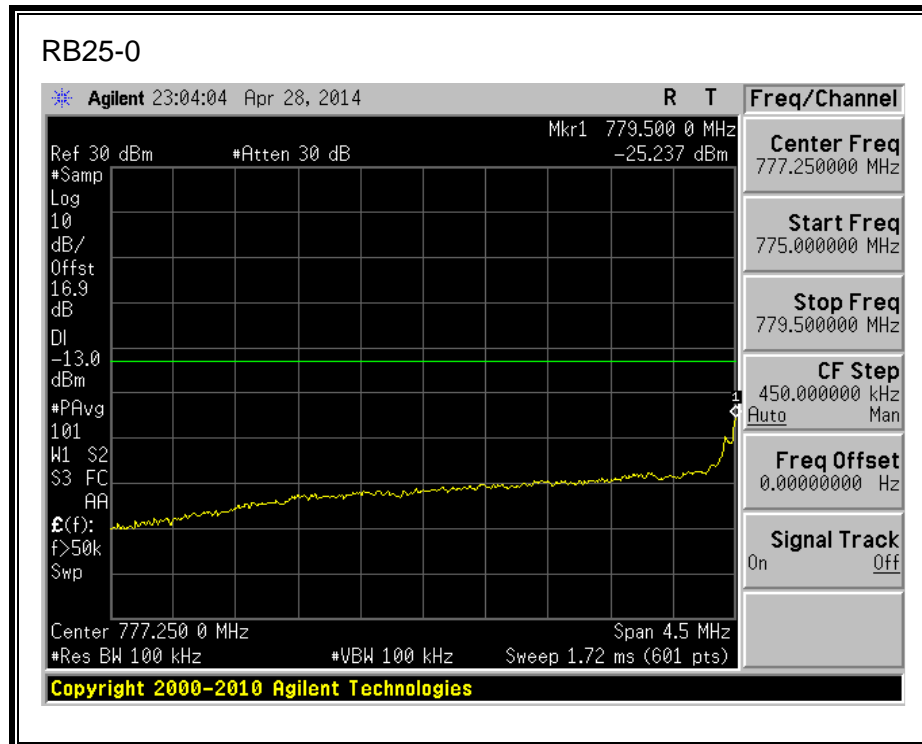
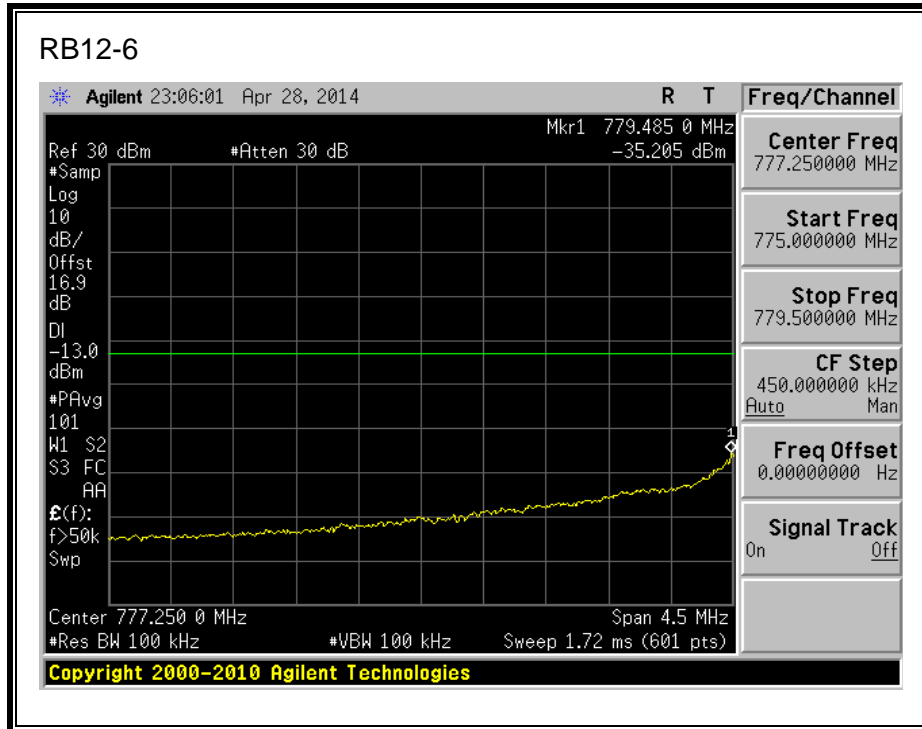
QPSK, 782MHz, 775 – 779.5MHz, (5MHz Bandwidth)



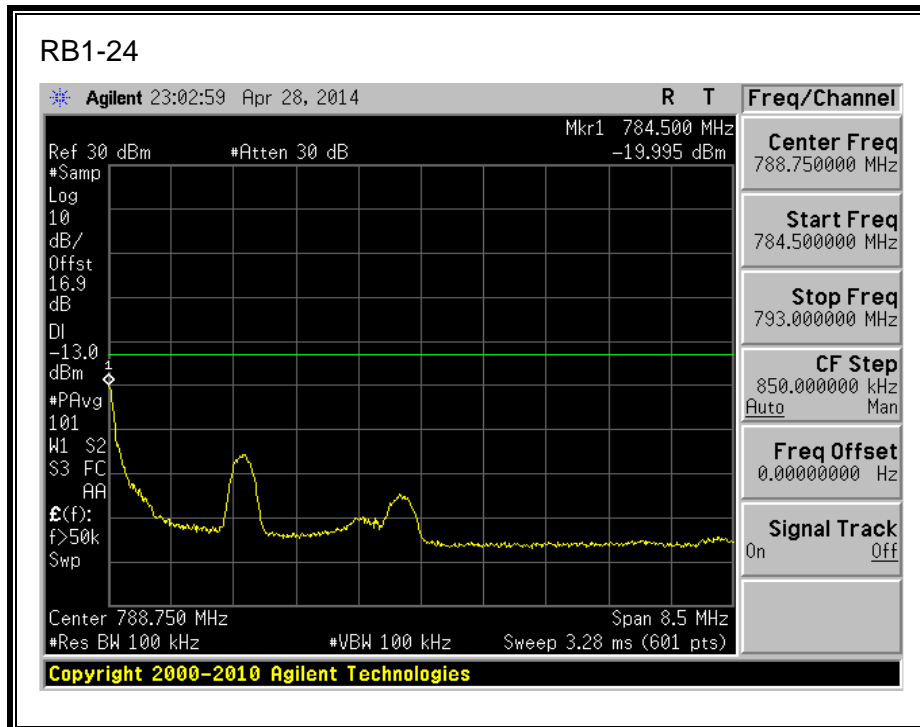
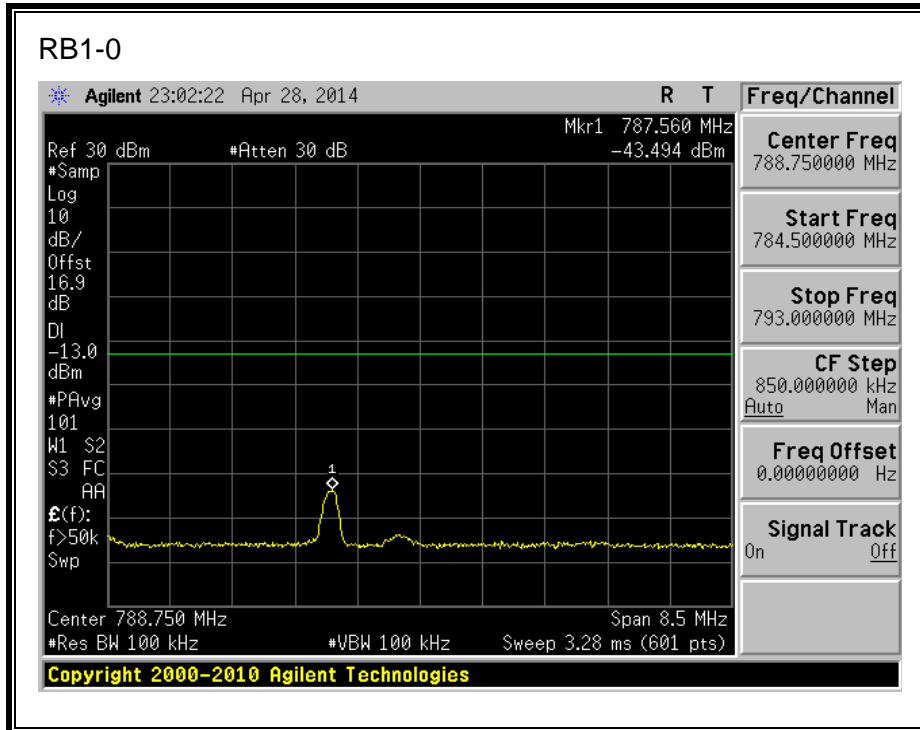


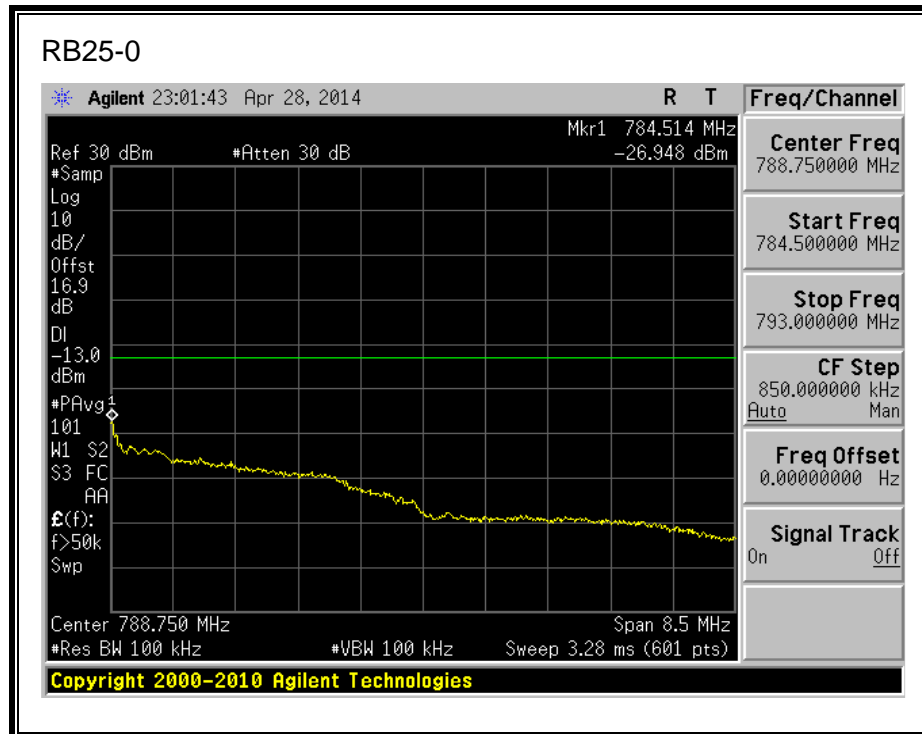
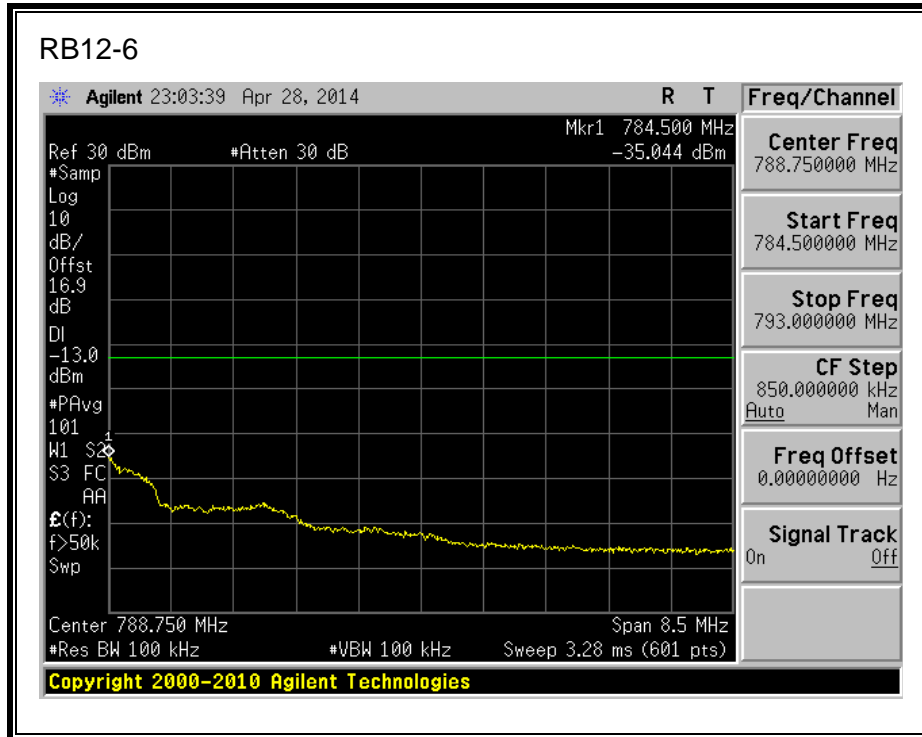
16QAM, 782MHz, 775 - 777MHz, (5MHz Bandwidth)



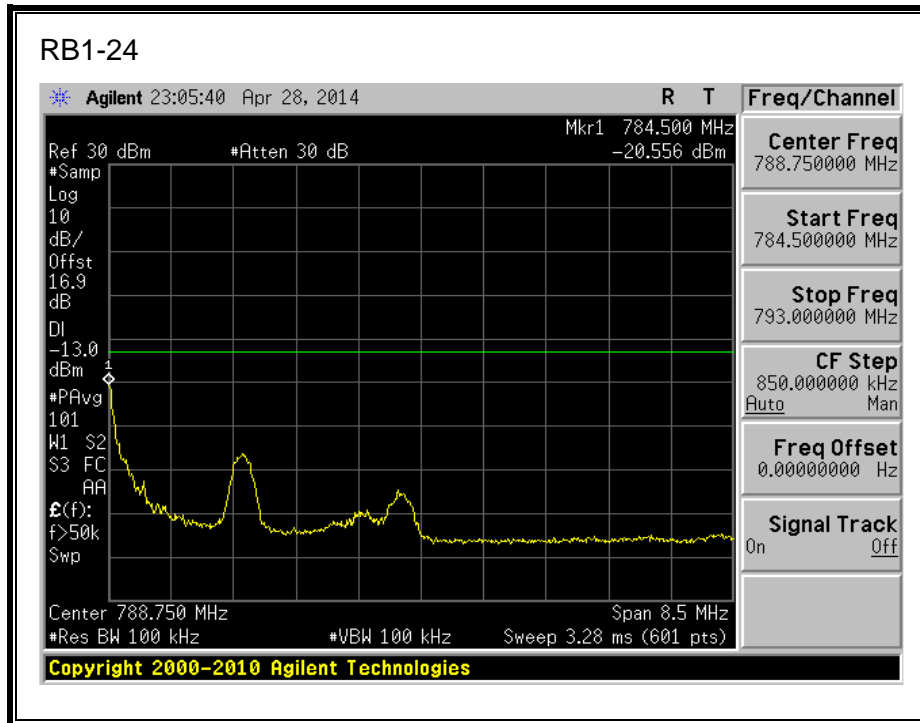
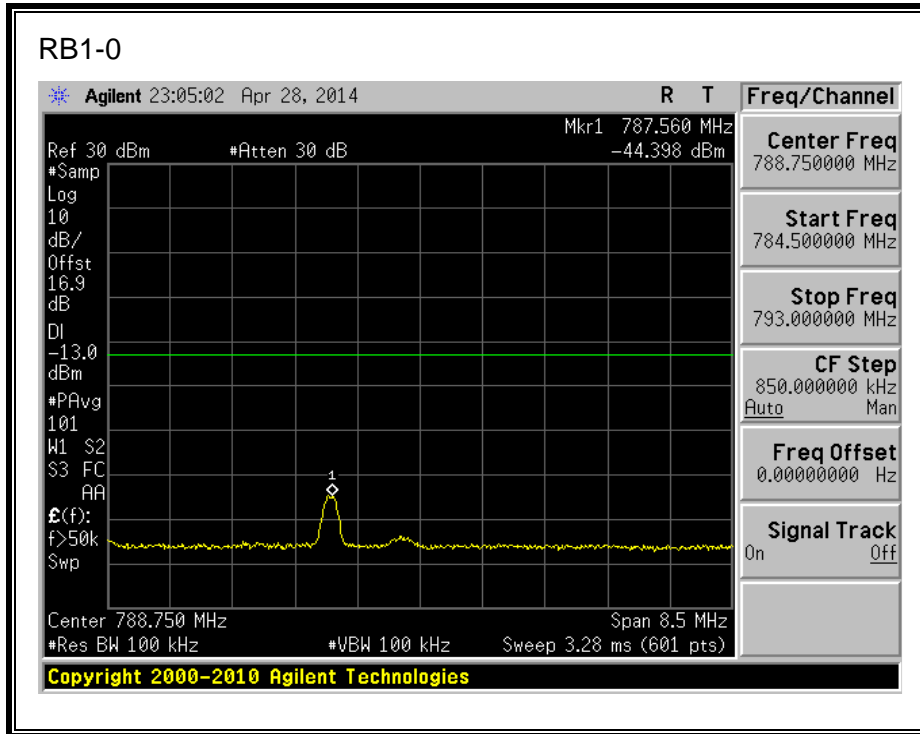


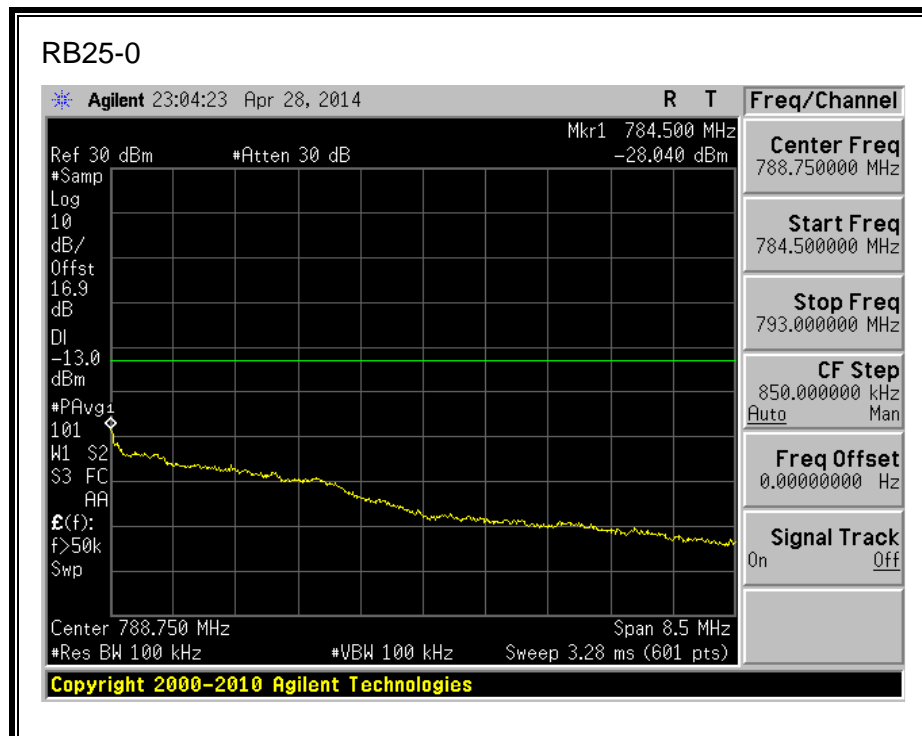
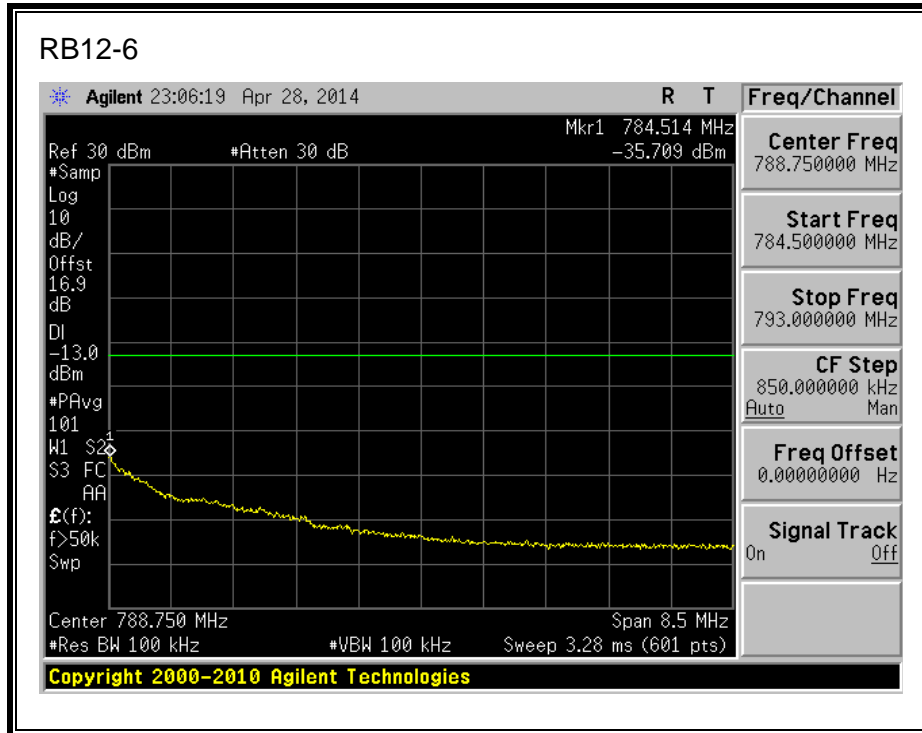
QPSK, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)



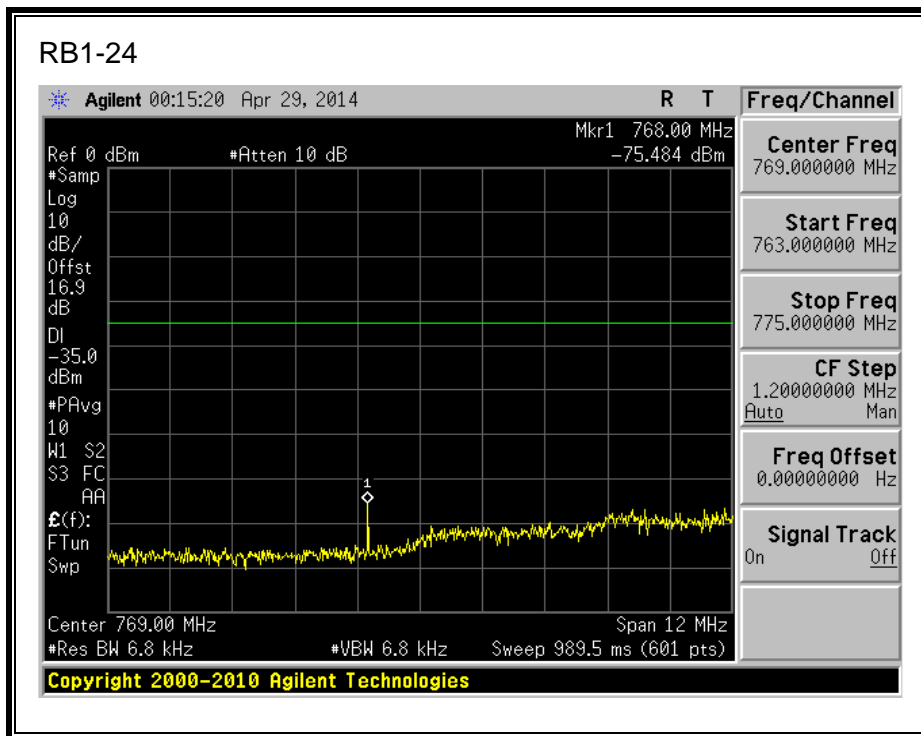
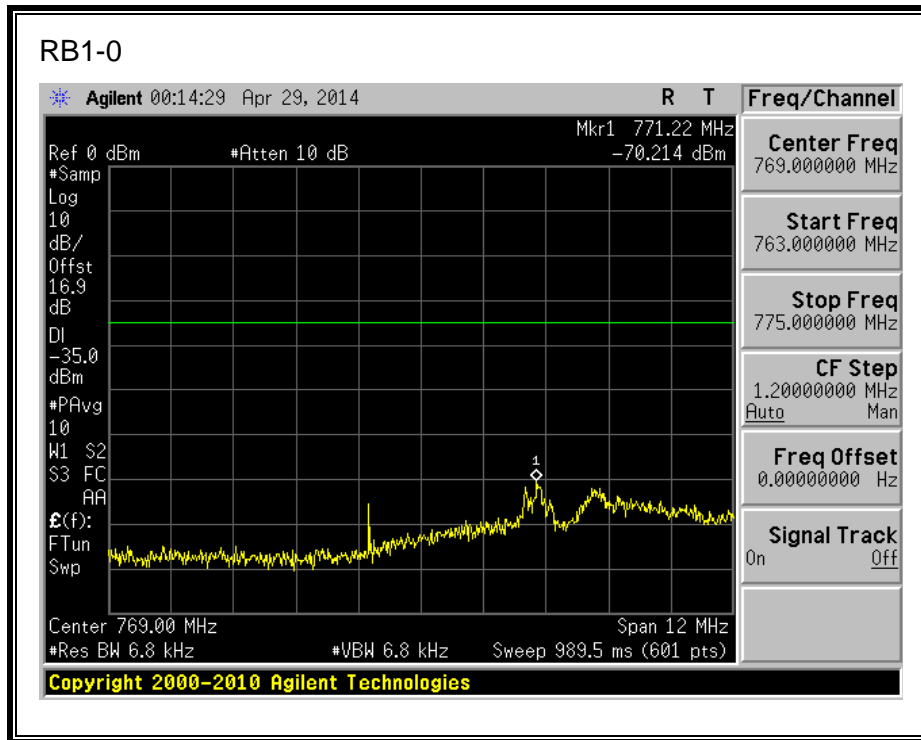


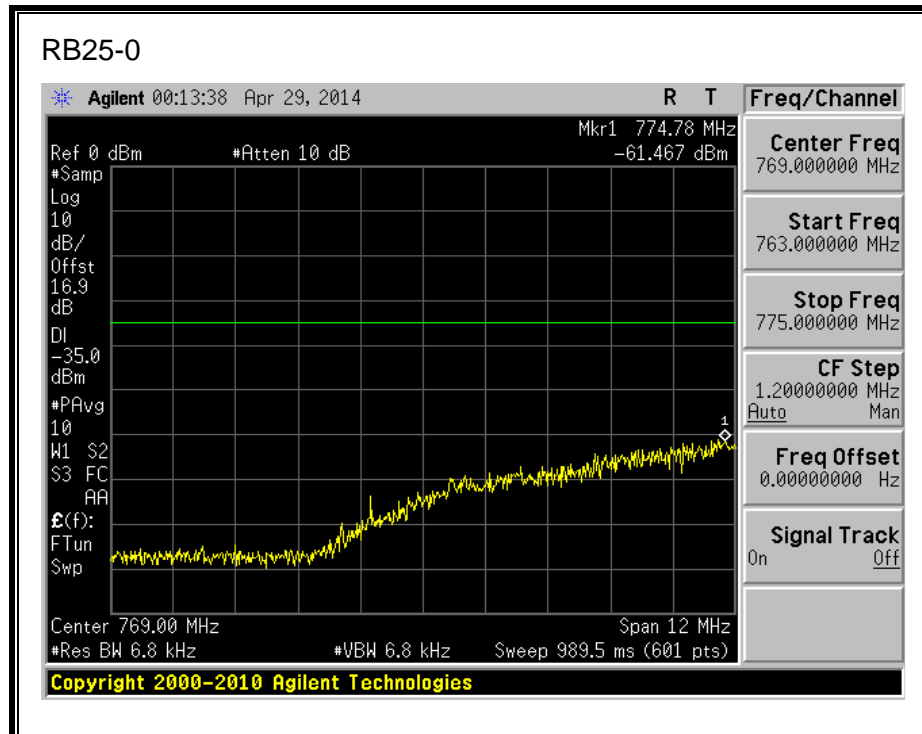
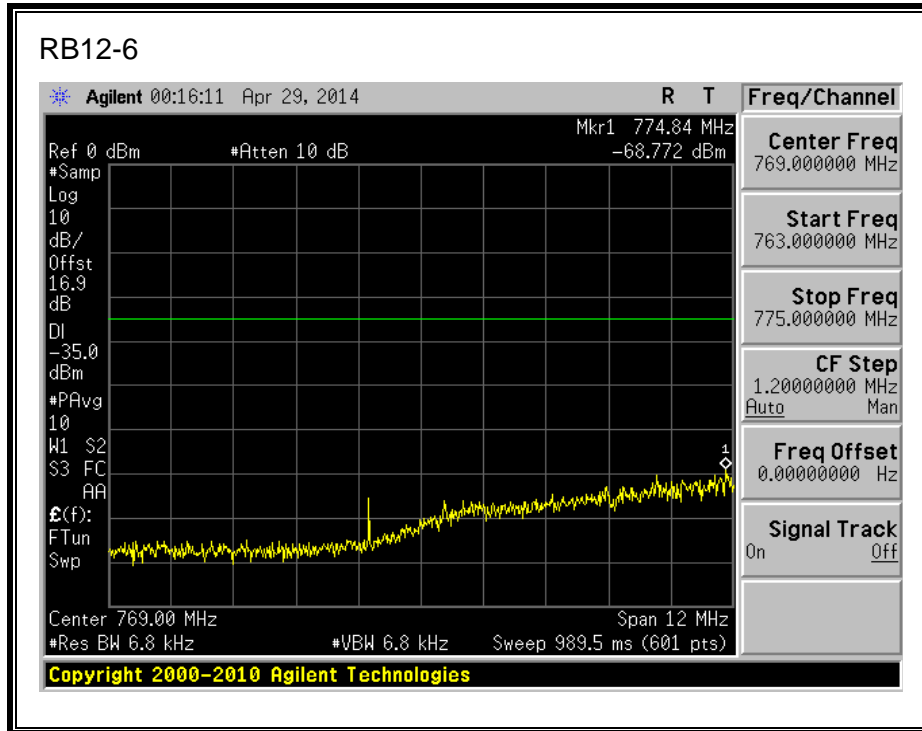
16QAM, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)



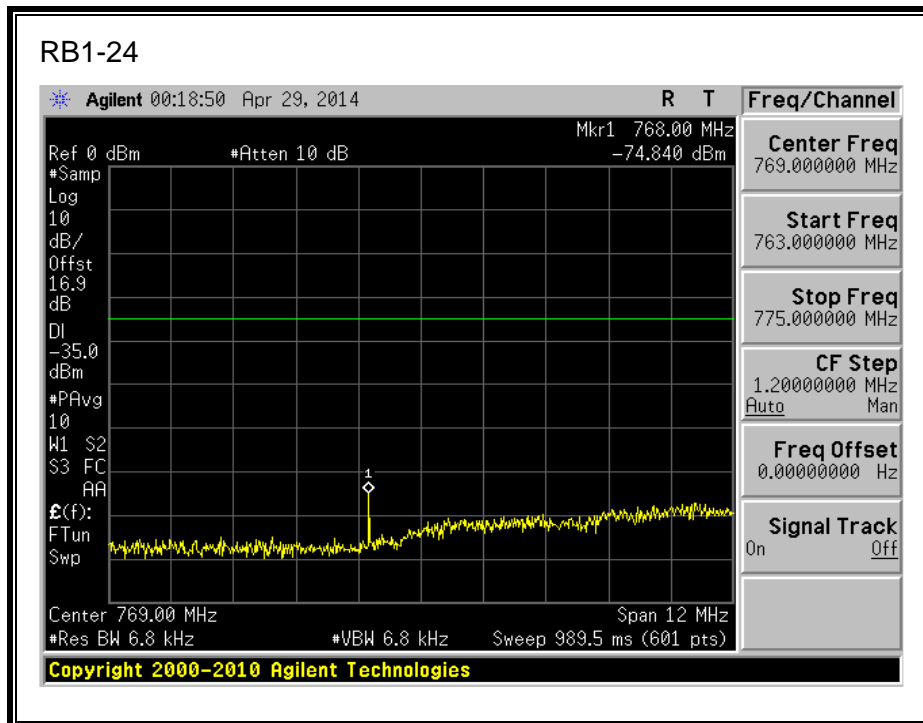
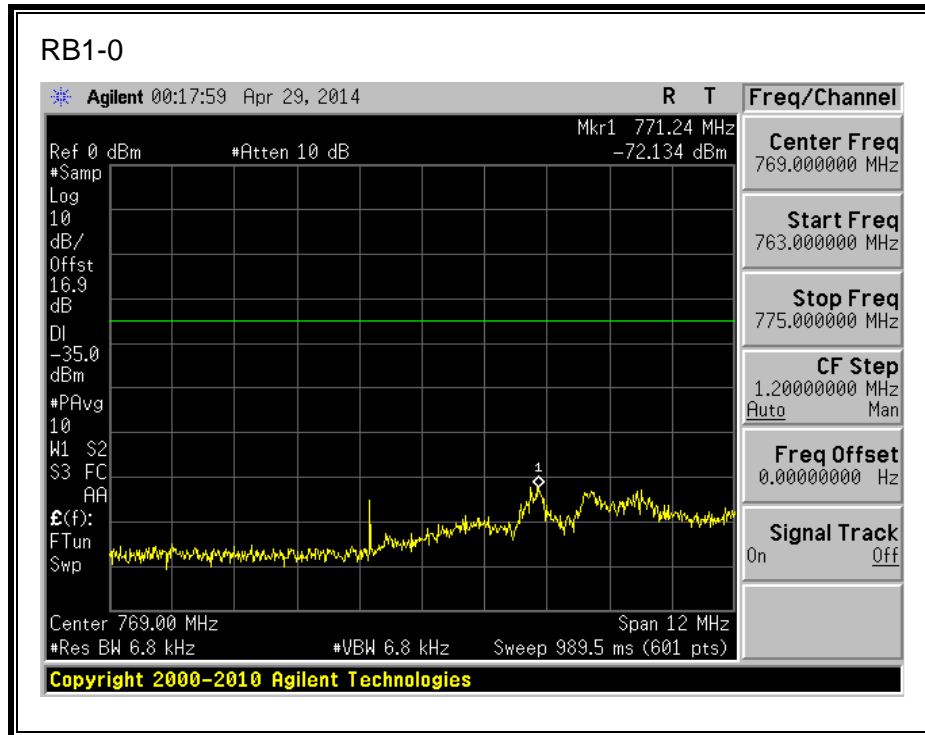


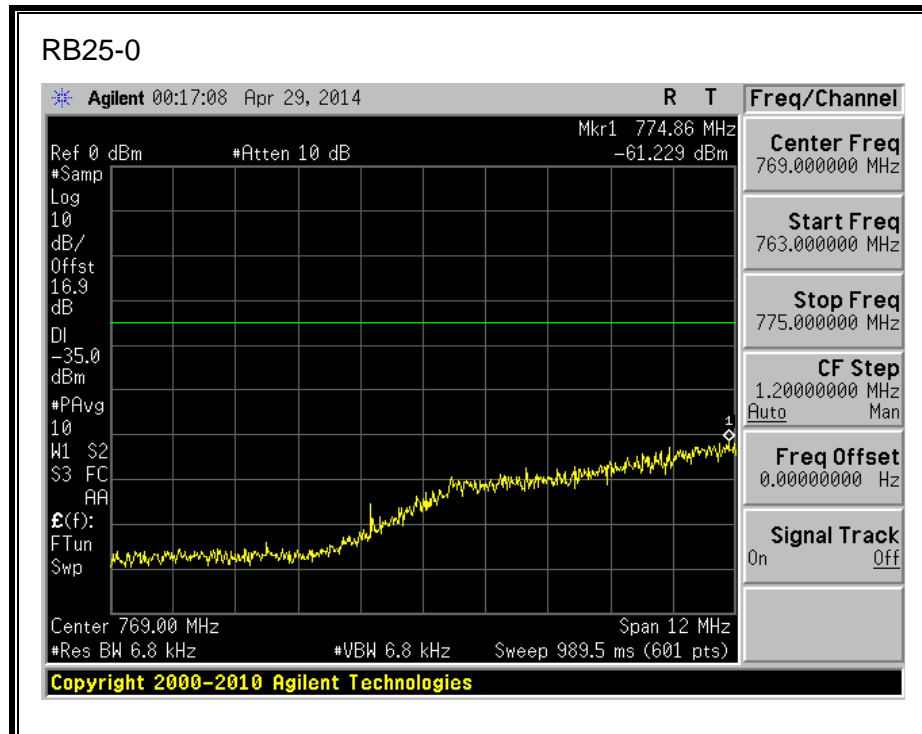
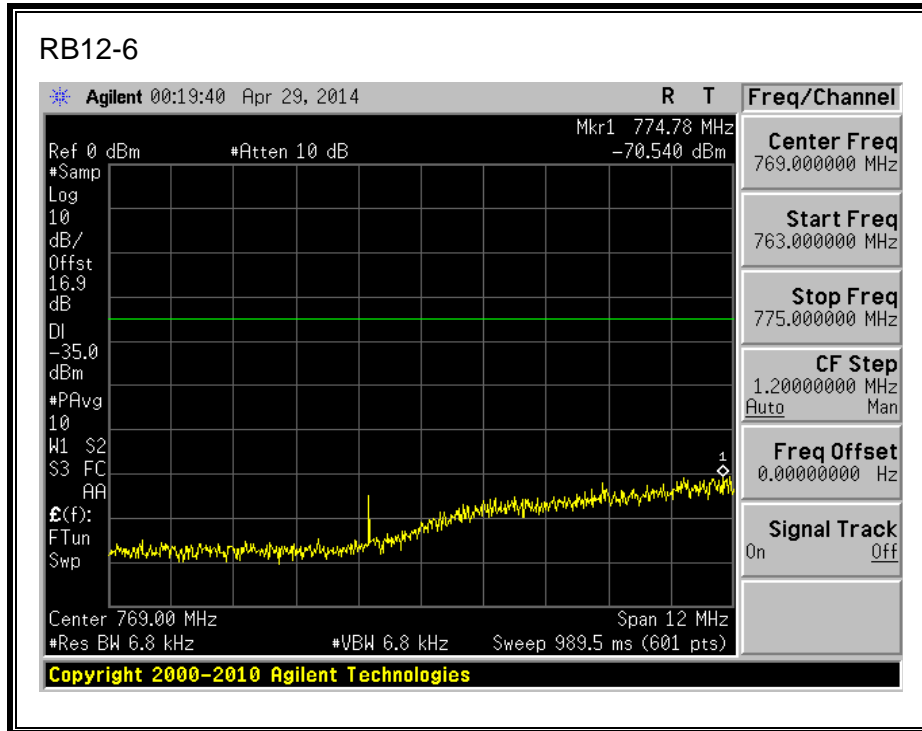
QPSK, 782MHz, 763 - 775MHz, (5MHz Bandwidth)



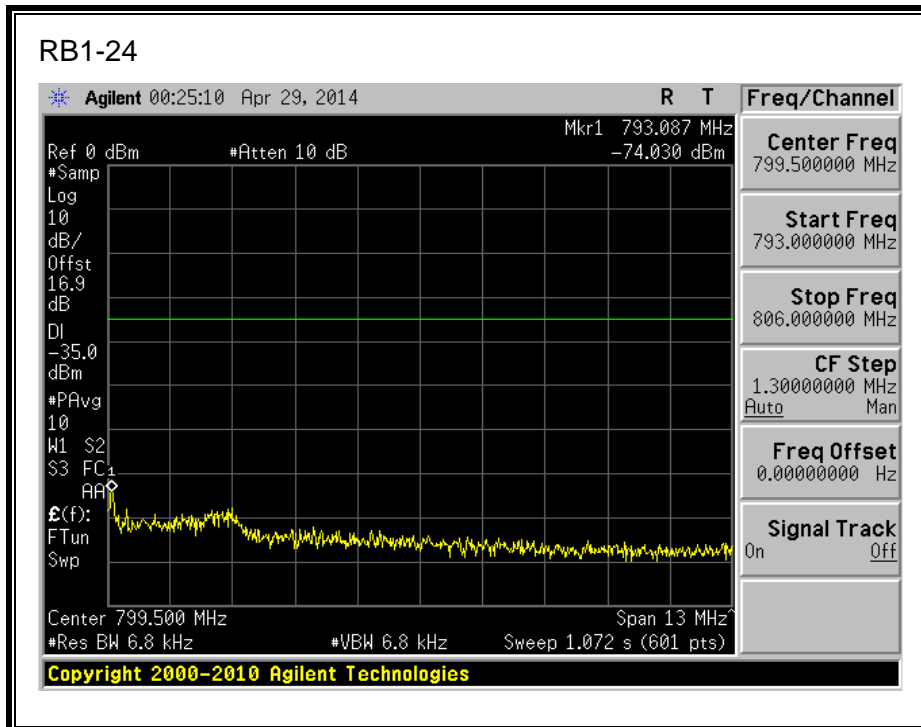
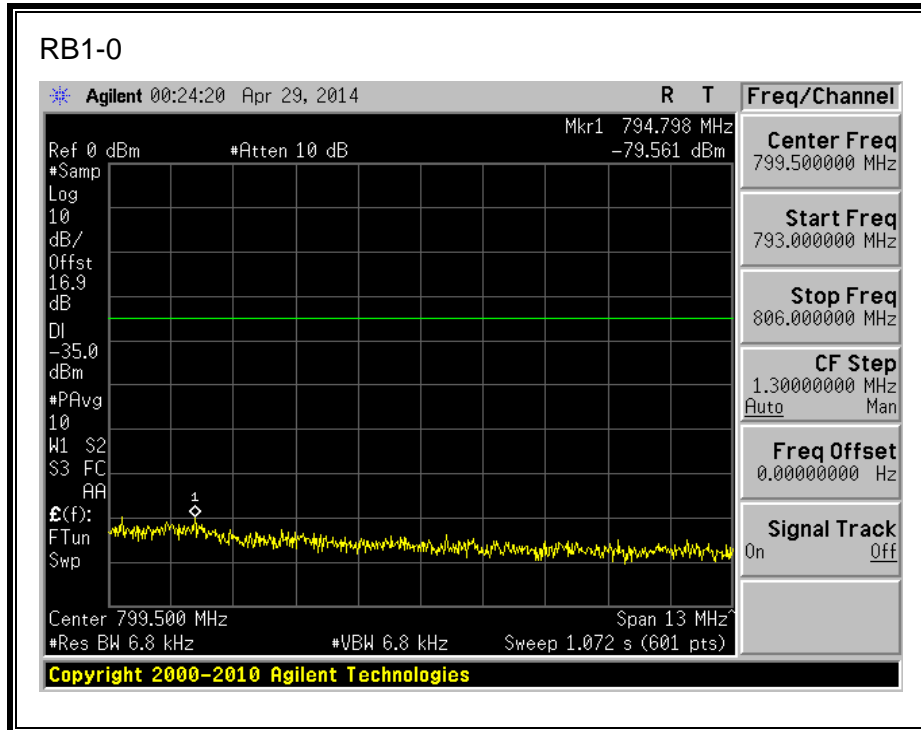


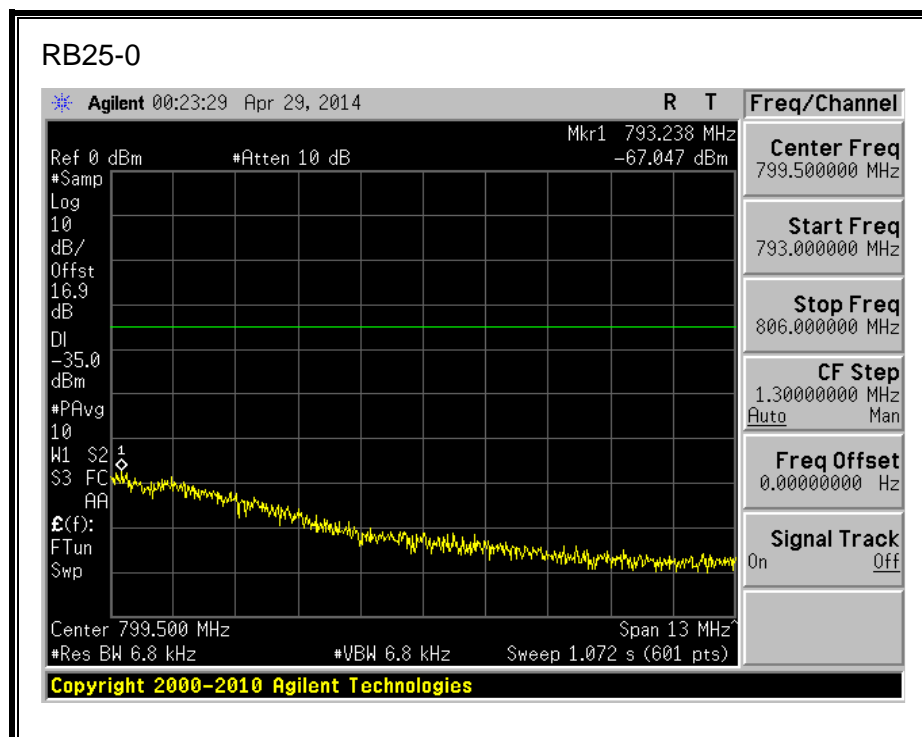
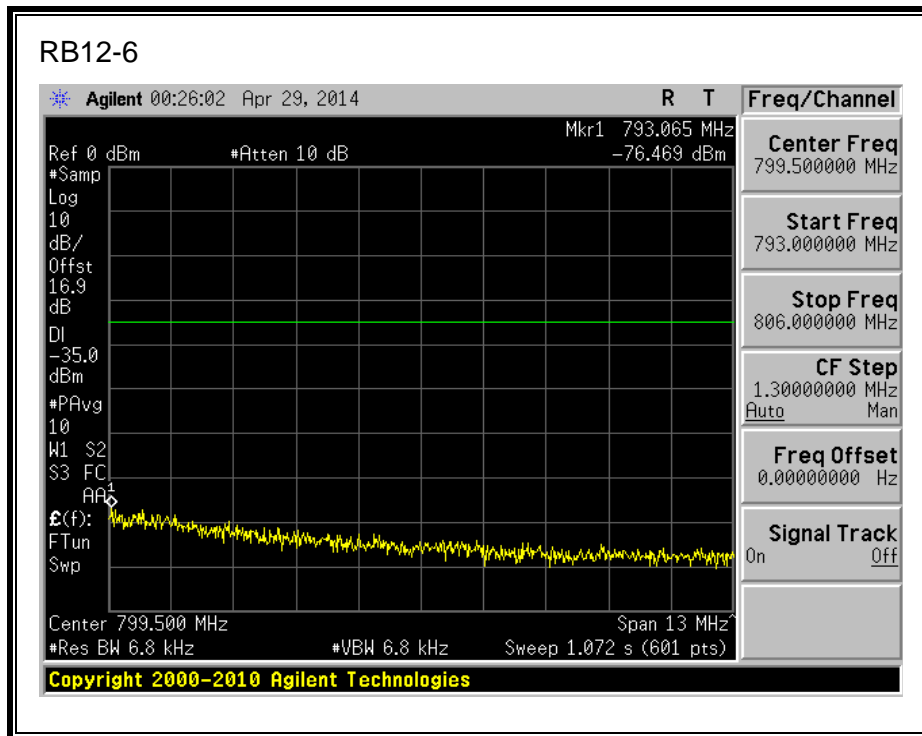
16QAM, 782MHz, 763 - 775MHz, (5MHz Bandwidth)



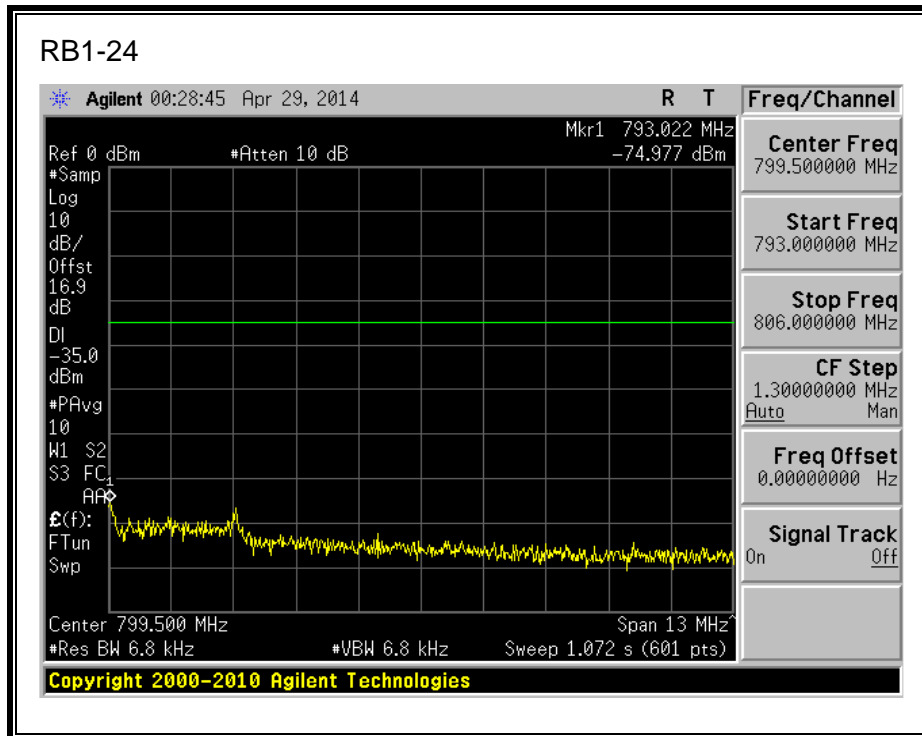
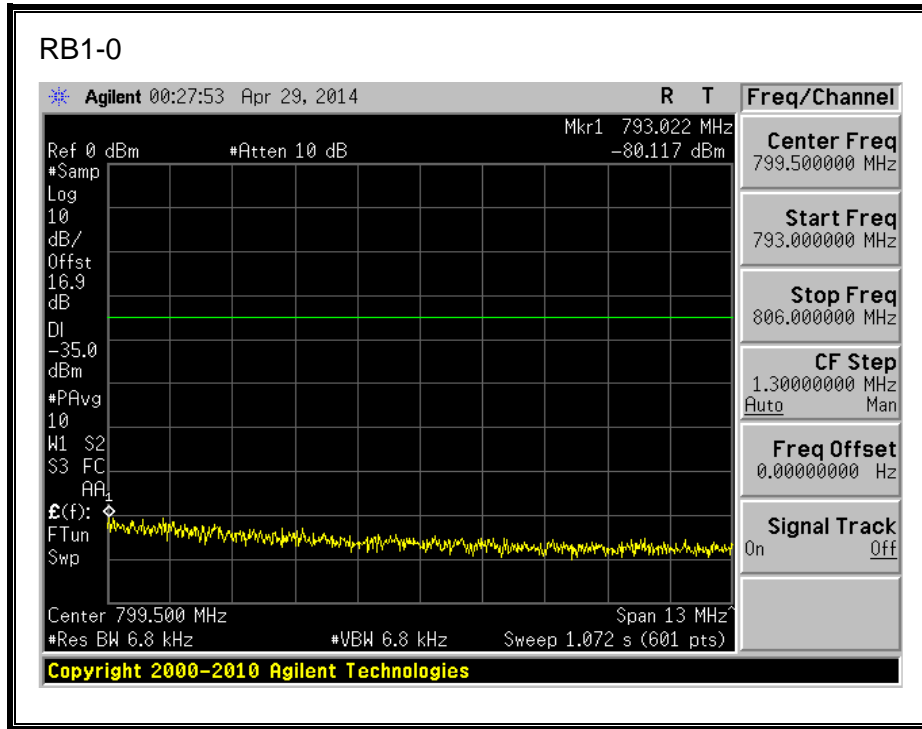


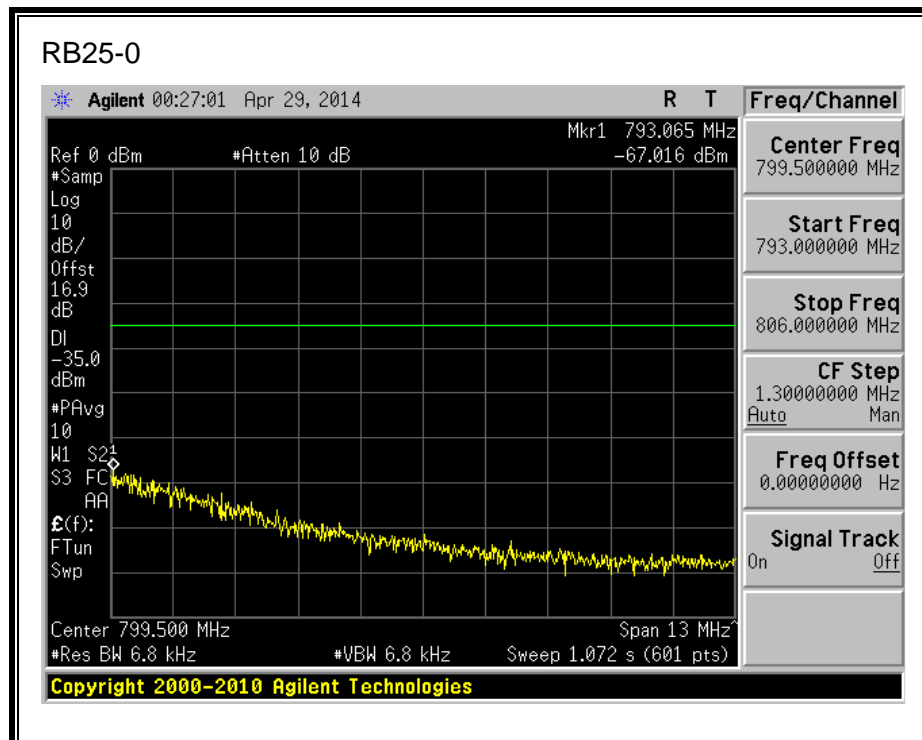
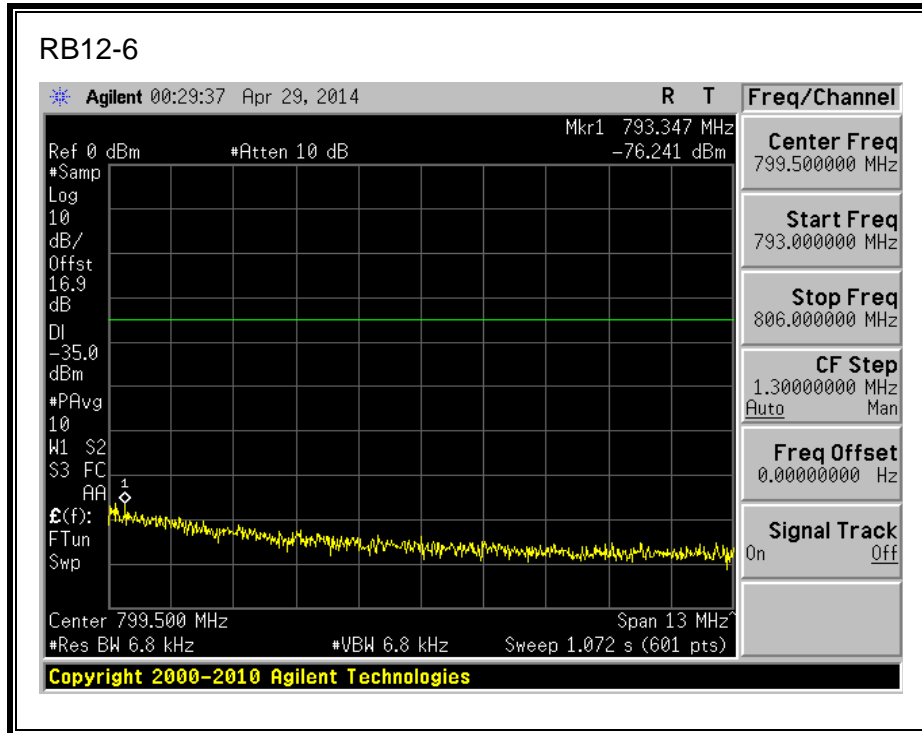
QPSK, 782MHz, 793 - 806MHz, (5MHz Bandwidth)



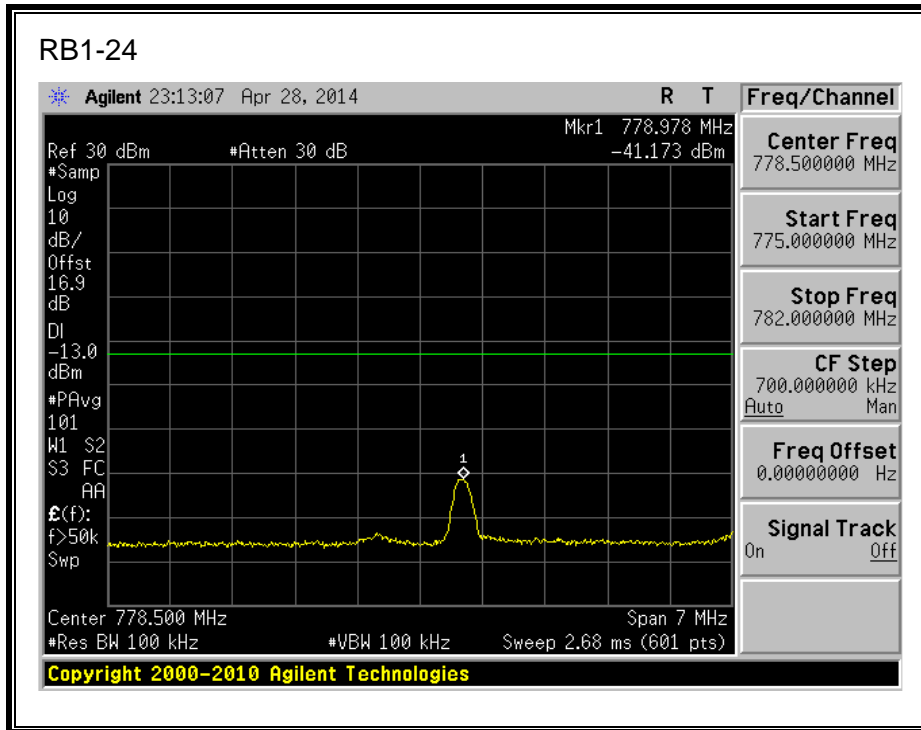
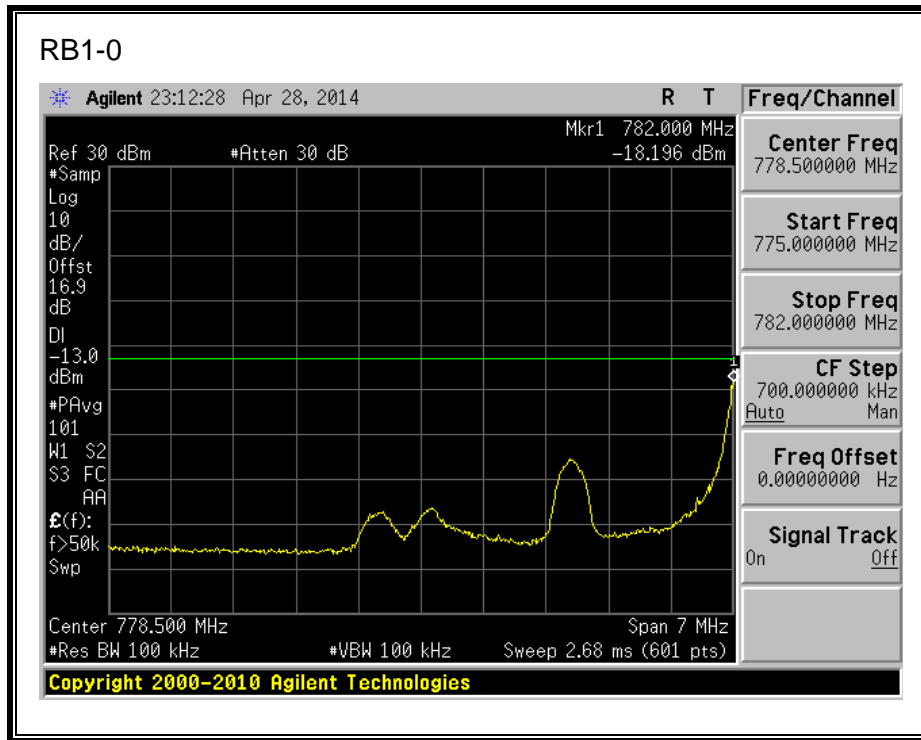


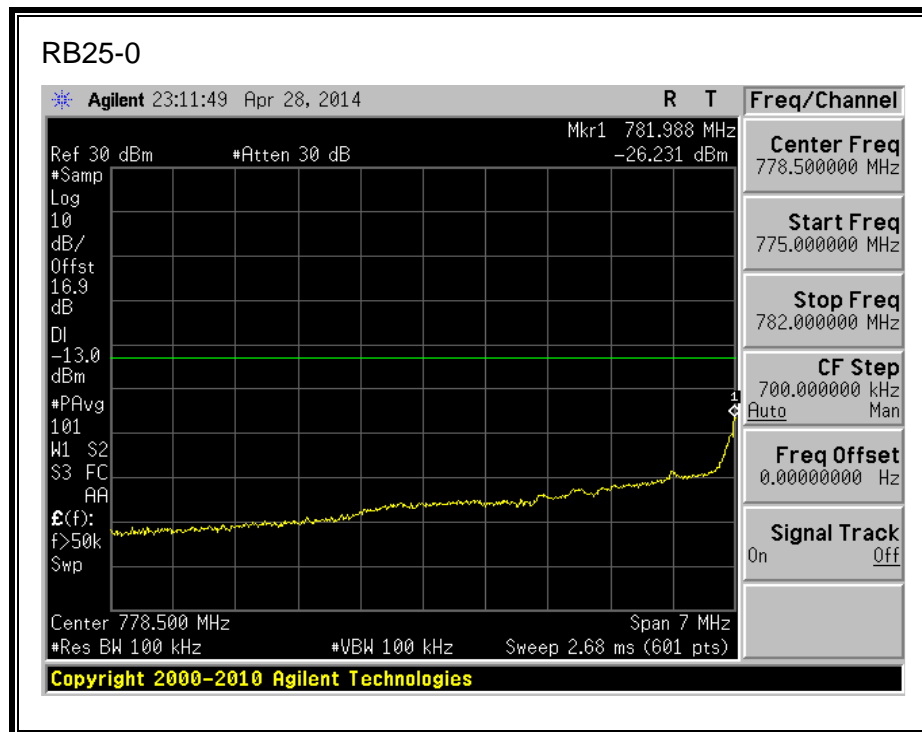
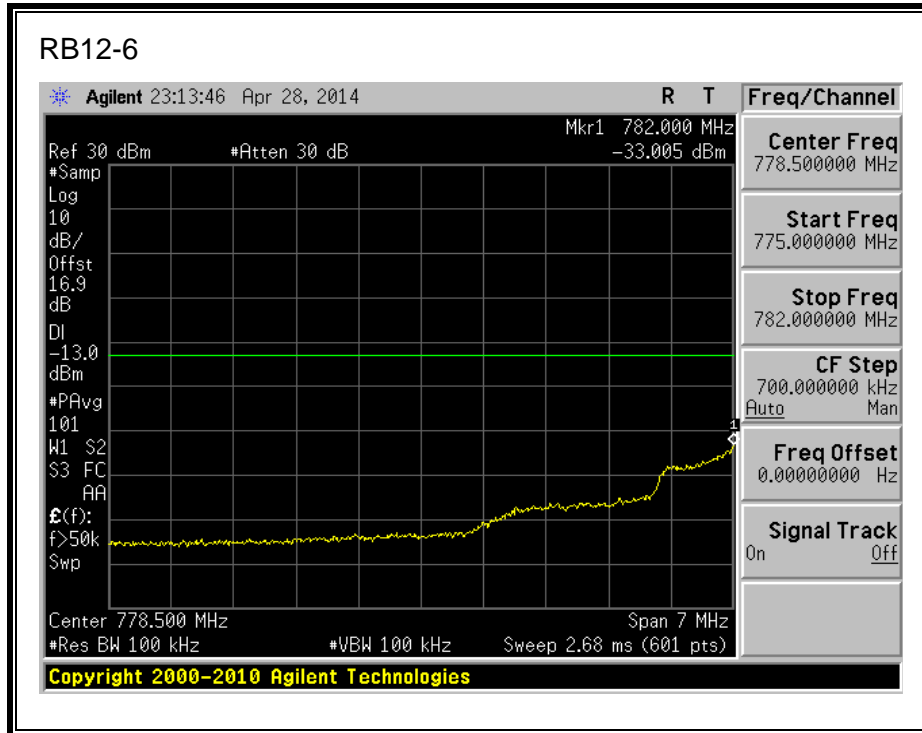
16QAM, 782MHz, 793 - 806MHz, (5MHz Bandwidth)



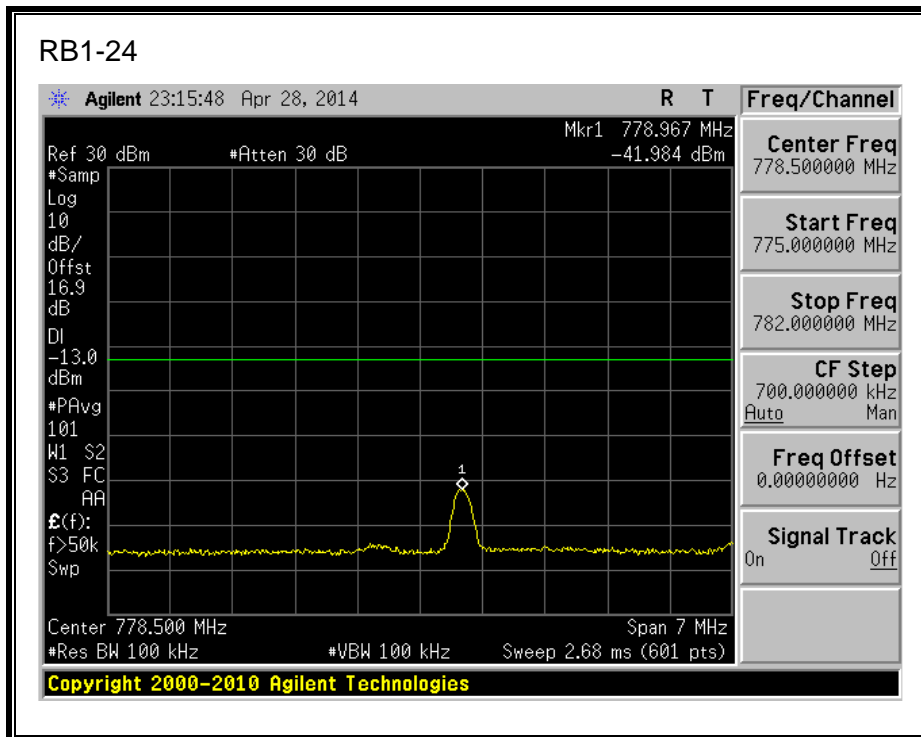
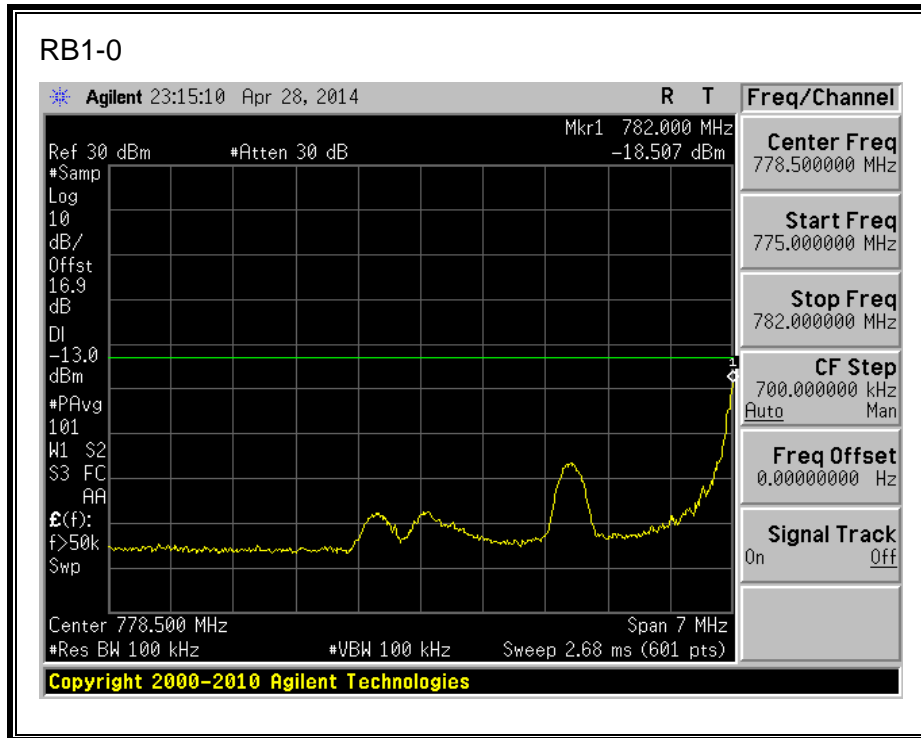


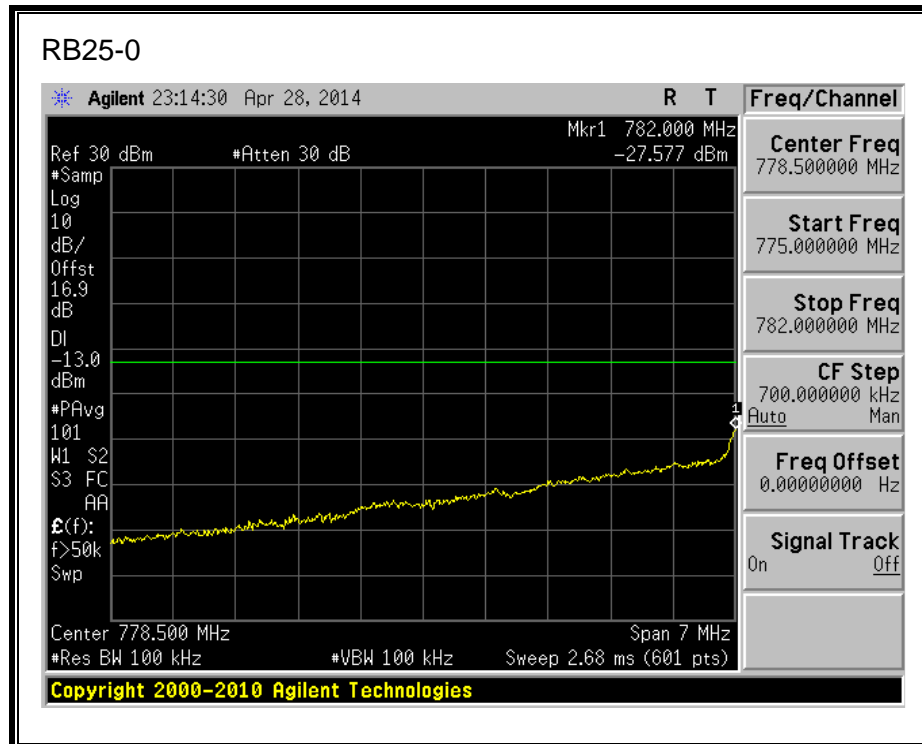
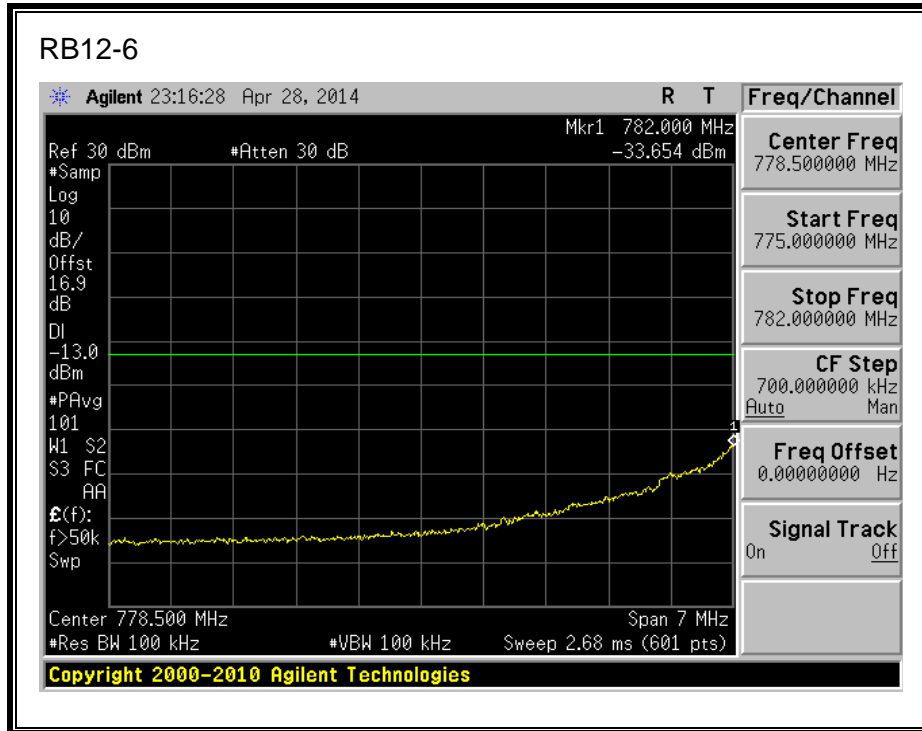
QPSK, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)



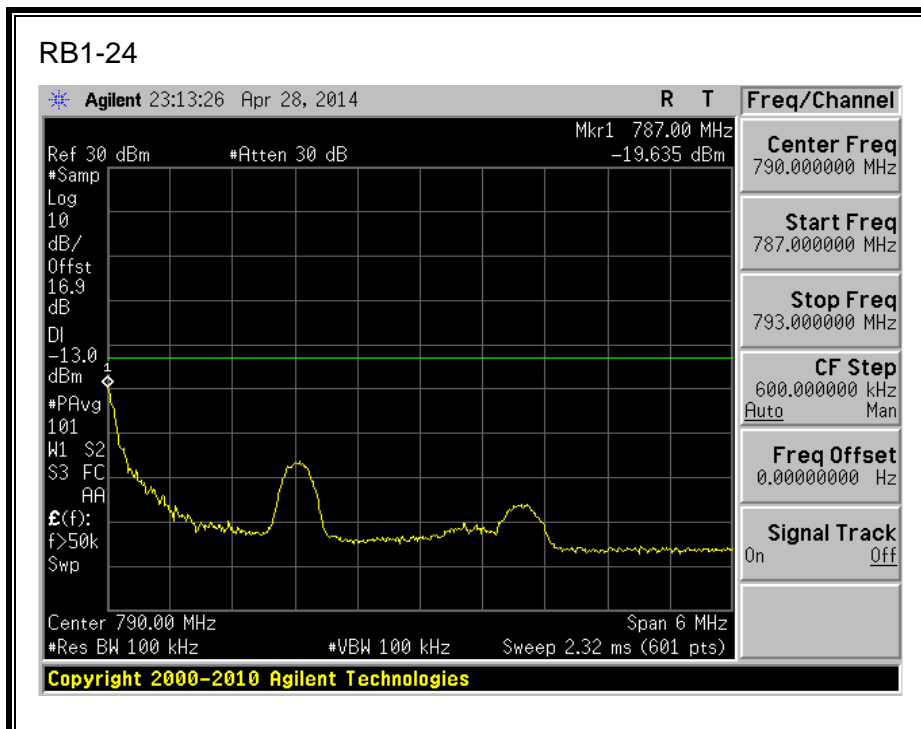
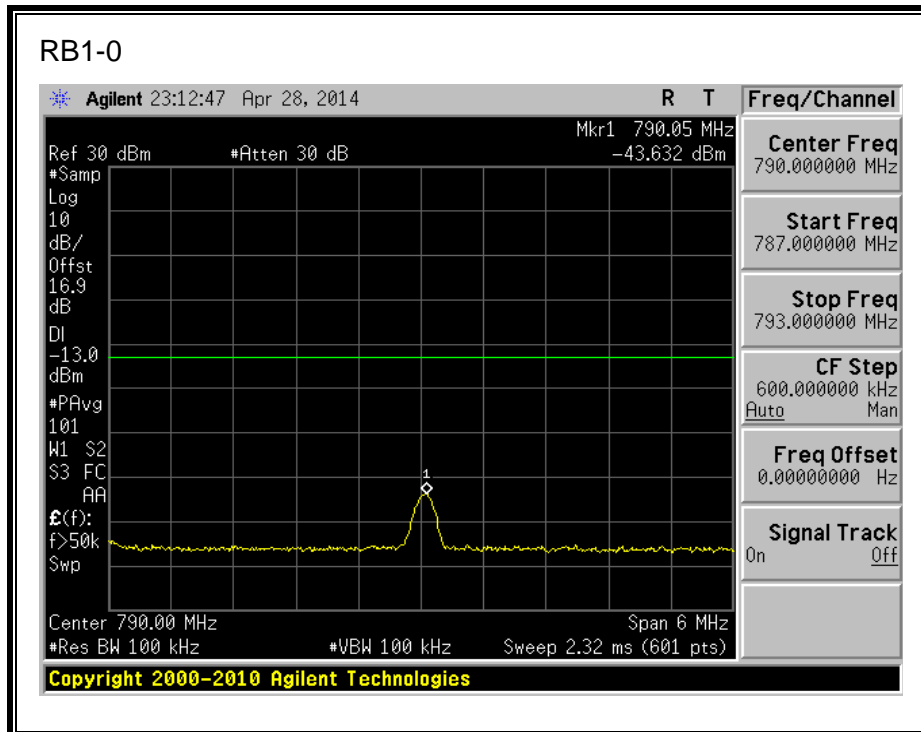


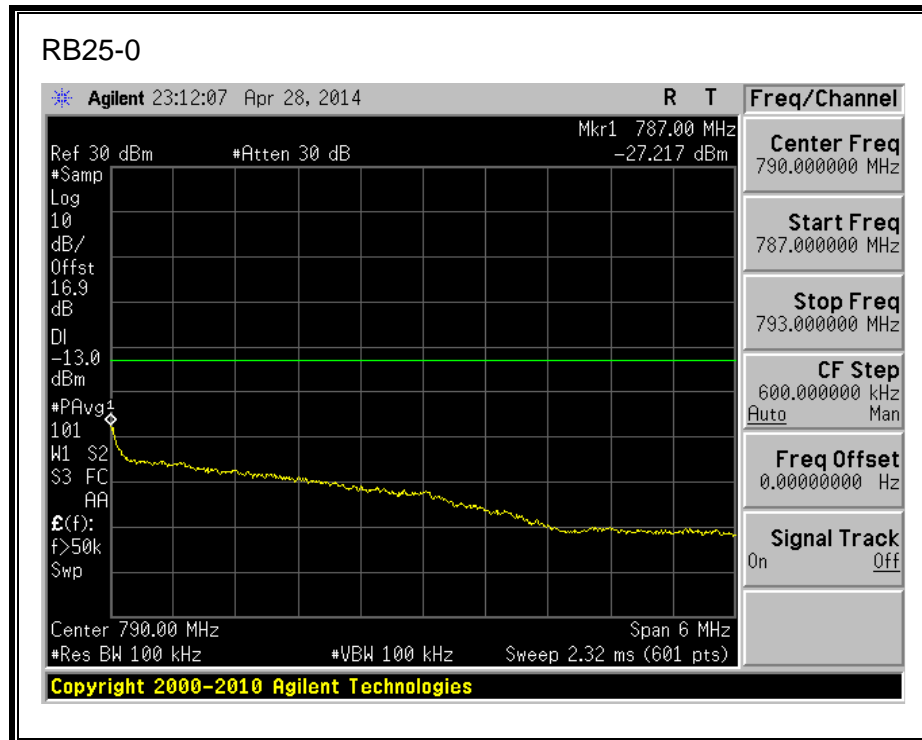
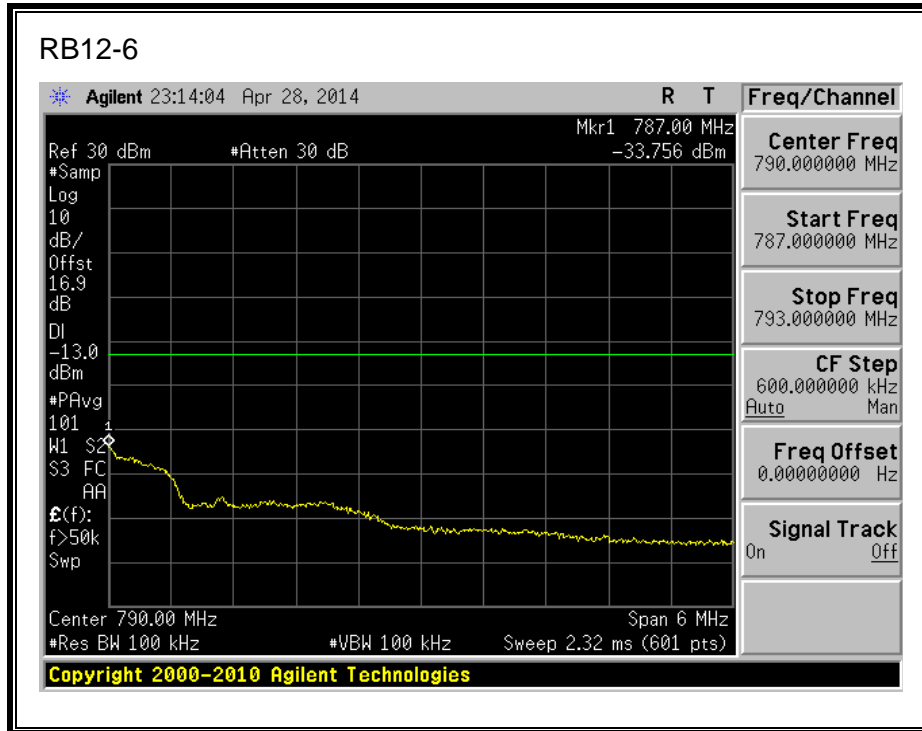
16QAM, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)



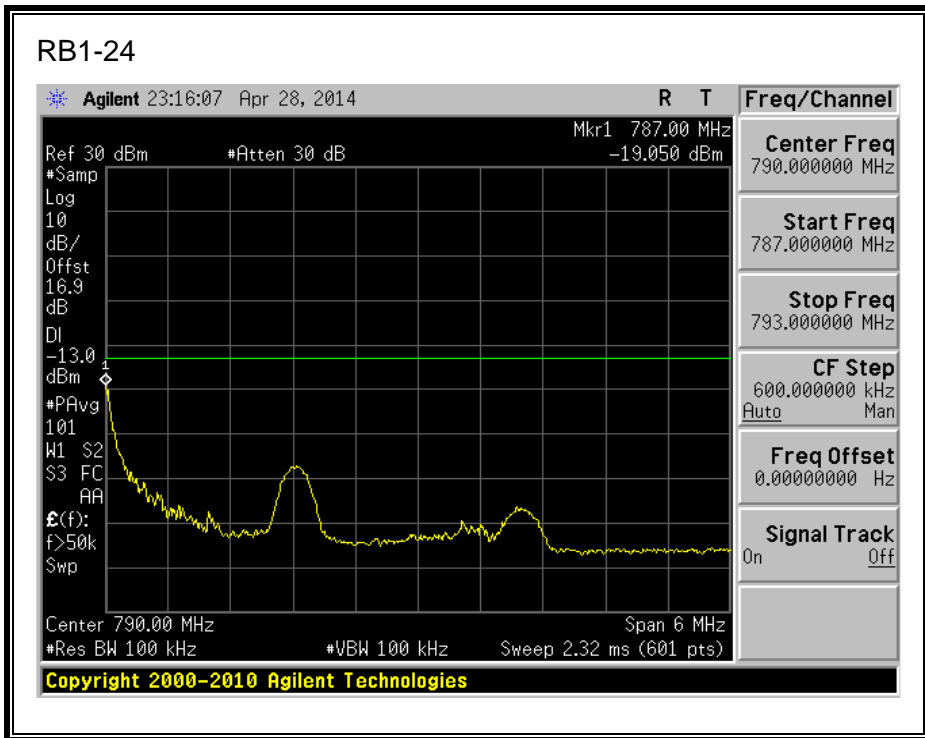
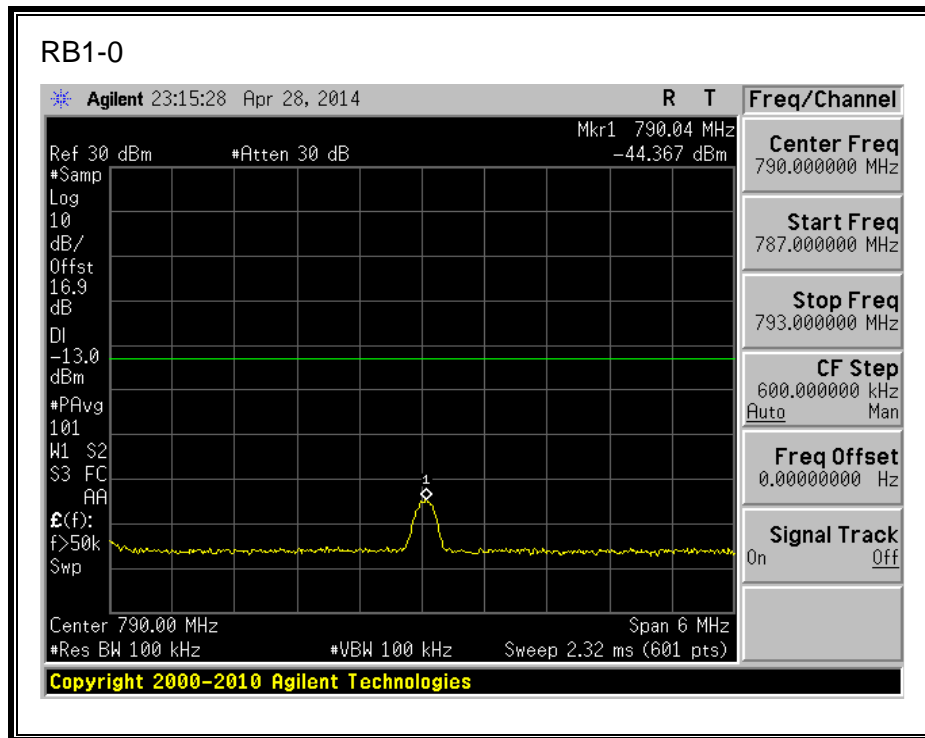


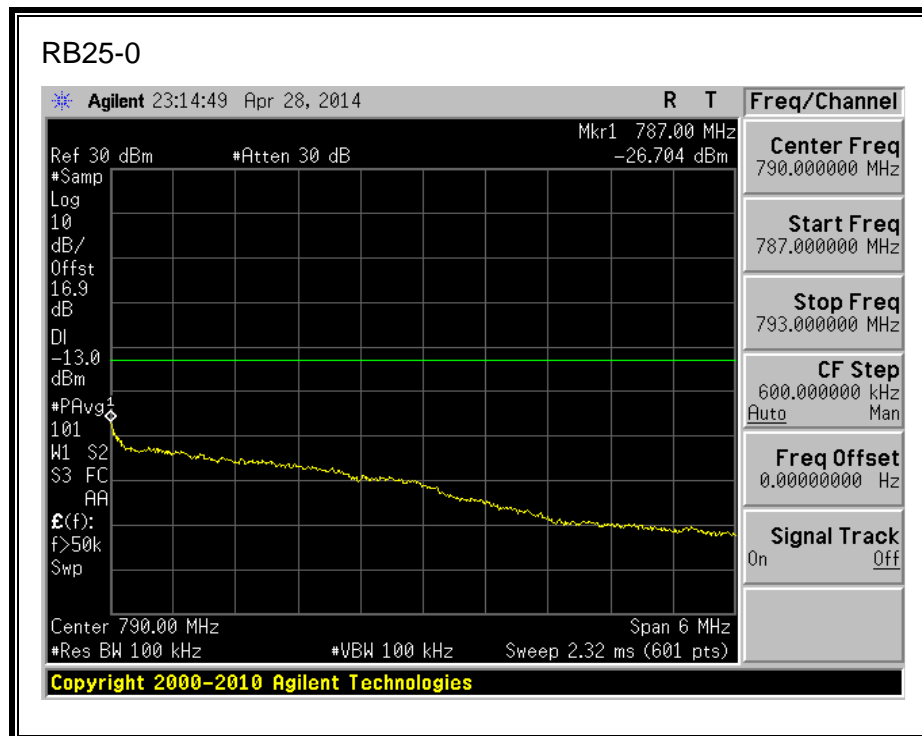
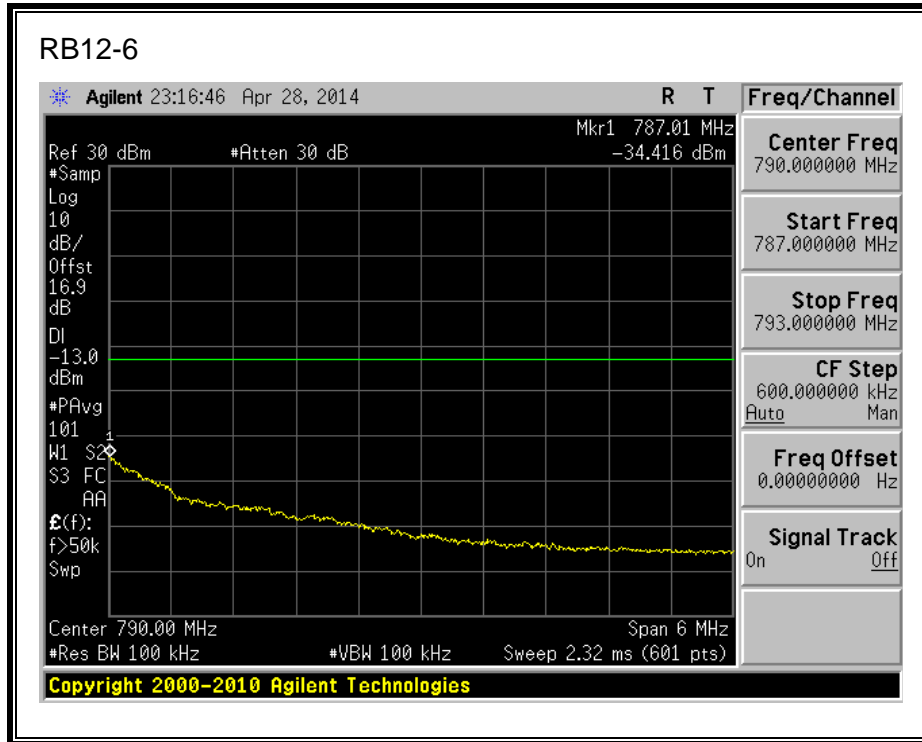
QPSK, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)



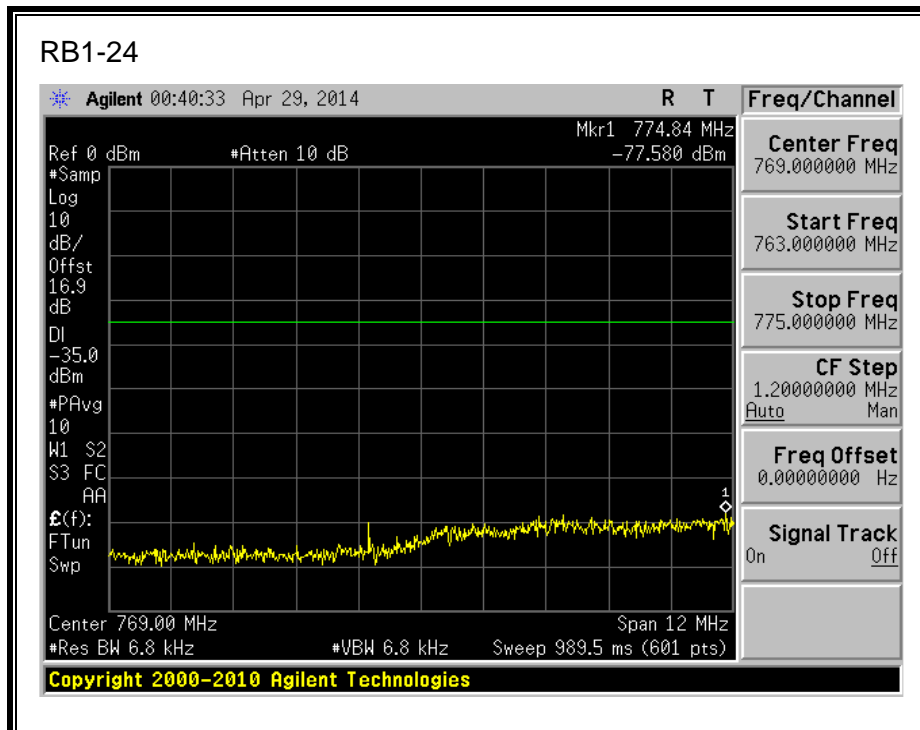
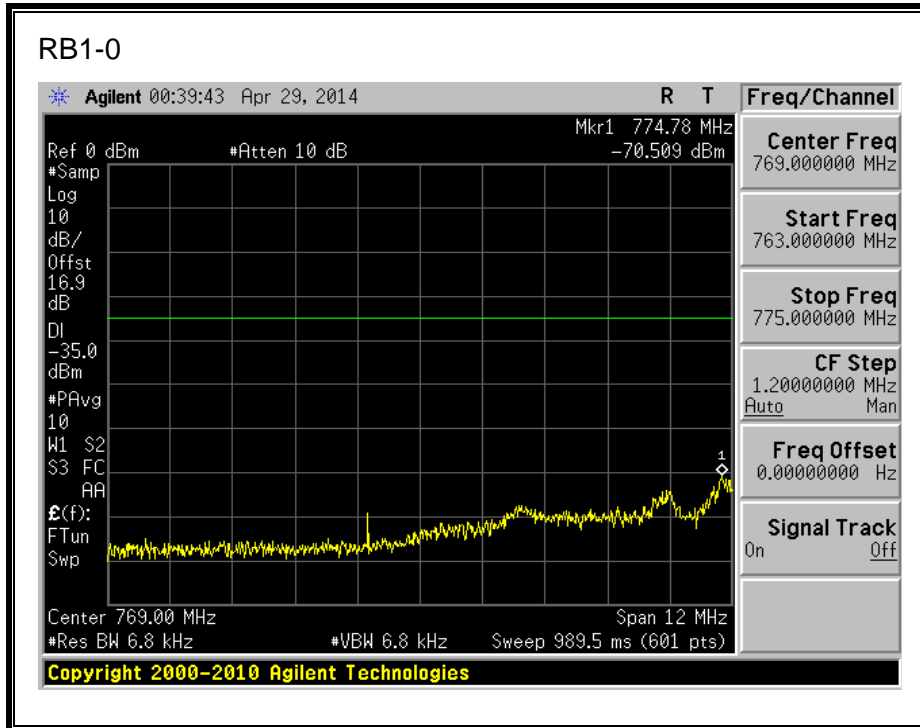


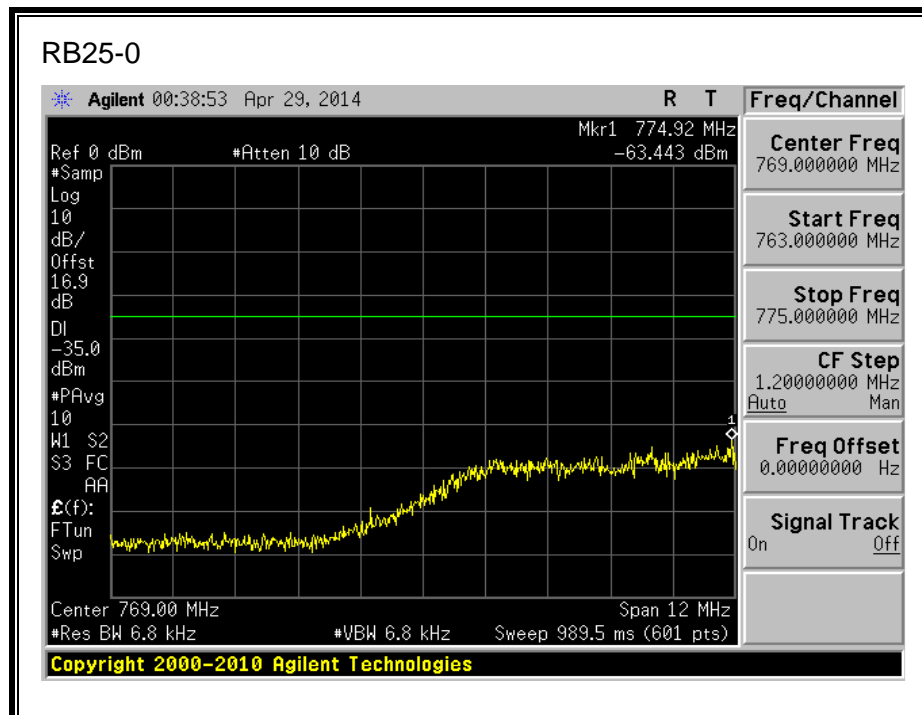
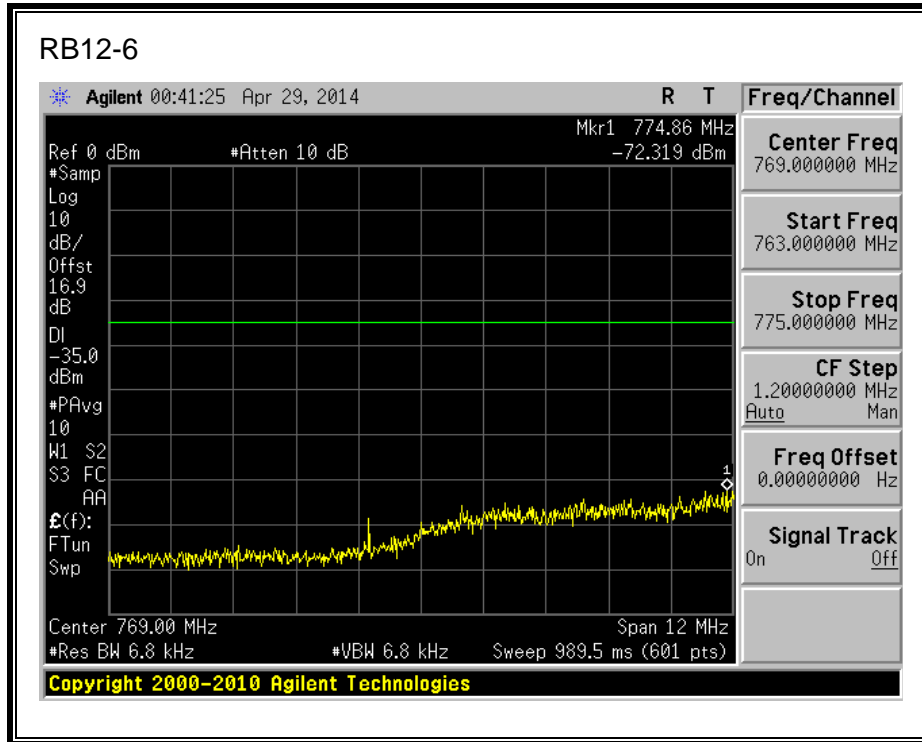
16QAM, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)





QPSK, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)





16QAM, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)

