



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

FOR

TABLET DEVICE

MODEL NUMBER: A1567

FCC ID: BCGA1567

REPORT NUMBER: 14U18207-E17, Revision A

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1. ATTESTATION OF TEST RESULTS

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

EUT DESCRIPTION: TABLET DEVICE

MODEL: A1567

SERIAL NUMBER: DXL423500L2FV2M08 (Conducted); DLXN100PG4MF (Radiated)

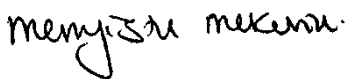
DATE TESTED: JULY 07 – AUGUST 20, 2014

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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MENGISTU MEKURIA
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

Tested By:



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
☐ Chamber A	☒ Chamber D
☐ Chamber B	☒ Chamber E
☐ Chamber C	☒ Chamber F
	☐ Chamber G
	☐ 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 tablet with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000 1xRTT/1x Advanced/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, and Bluetooth radio. 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:

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	1850.7 - 1909.3	QPSK	23.50	223.9	24.70	295.1
		16QAM	22.60	182.0	23.71	235.0
3	1851.5-1908.5	QPSK	23.47	222.3	24.84	304.8
		16QAM	22.55	179.9	23.61	229.6
5	1852.5-1907.5	QPSK	23.50	223.9	24.72	296.5
		16QAM	22.57	180.7	23.90	245.5
10	1855.0-1905.0	QPSK	23.46	221.8	24.93	311.2
		16QAM	22.55	179.9	24.29	268.5
15	1857.5-1902.5	QPSK	23.50	223.9	24.81	302.7
		16QAM	22.52	178.6	23.93	247.2
20	1860.0-1900.0	QPSK	23.50	223.9	24.61	289.1
		16QAM	22.52	178.6	23.40	218.8

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	1710.7-1754.3	QPSK	23.50	223.9	24.53	283.8
		16QAM	22.63	183.2	23.58	228.0
3	1711.5-1753.5	QPSK	23.50	223.9	24.53	283.8
		16QAM	22.63	183.2	23.46	221.8
5	1712.5-1752.5	QPSK	23.50	223.9	24.73	297.2
		16QAM	22.61	182.4	23.74	236.6
10	1715.0-1750.0	QPSK	23.50	223.9	24.82	303.4
		16QAM	22.60	182.0	23.80	239.9
15	1717.5-1747.5	QPSK	23.49	223.4	24.64	291.1
		16QAM	22.57	180.7	23.52	224.9
20	1720.0-1745.0	QPSK	23.49	223.4	24.75	298.5
		16QAM	22.57	180.7	23.86	243.2

OUTPUT POWER FOR LTE BAND 5

Part 22 LTE Band 5						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP(Average)	
			dBm	mW	dBm	mW
1.4	824.7-848.3	QPSK	24.00	251.2	22.52	178.6
		16QAM	23.06	202.3	21.72	148.6
3	825.5-847.5	QPSK	23.97	249.5	22.22	166.7
		16QAM	23.06	202.3	21.32	135.5
5	826.5-846.5	QPSK	24.00	251.2	22.49	177.4
		16QAM	23.05	201.8	21.79	151.0
10	829.0-844.0	QPSK	23.98	250.0	22.62	182.8
		16QAM	23.00	199.5	21.84	152.8

OUTPUT POWER FOR LTE BAND 13

Part 27 LTE Band 13						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP(Average)	
			dBm	mW	dBm	mW
5	779.5-784.5	QPSK	24.00	251.2	21.88	154.2
		16QAM	23.11	204.6	20.97	125.0
10	782.0	QPSK	23.96	248.9	21.94	156.3
		16QAM	22.97	198.2	21.04	127.1

OUTPUT POWER FOR LTE BAND 17

Part 27 LTE Band 17						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP(Average)	
			dBm	mW	dBm	mW
5	706-713.5	QPSK	24.00	251.2	21.63	145.5
		16QAM	23.12	205.1	20.64	115.9
10	709.0-711.0	QPSK	24.00	251.2	21.48	140.6
		16QAM	23.10	204.2	20.48	111.7

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	1850.7 - 1914.3	QPSK	23.50	223.9	24.84	304.8
		16QAM	22.57	180.7	24.04	253.5
3	1851.5-1913.5	QPSK	23.49	223.4	24.71	295.8
		16QAM	22.56	180.3	23.66	232.3
5	1852.5-1912.5	QPSK	23.50	223.9	24.89	308.3
		16QAM	22.58	181.1	23.87	243.8
10	1855.0-1910.0	QPSK	23.49	223.4	24.57	286.4
		16QAM	22.58	181.1	23.50	223.9
15	1857.5-1907.5	QPSK	23.50	223.9	24.57	286.4
		16QAM	22.58	181.1	23.67	232.8
20	1860.0-1905.0	QPSK	23.50	223.9	24.47	279.9
		16QAM	22.57	180.7	23.67	232.8

OUTPUT POWER FOR LTE BAND 26

Part 22 LTE Band 26						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted(Average)		ERP(Average)	
			dBm	mW	dBm	mW
3	820.3-822.3	QPSK	23.49	223.4	21.32	135.5
		16QAM	22.51	178.2	20.39	109.4
5	821.3	QPSK	23.48	222.8	21.47	140.3
		16QAM	22.54	179.5	20.55	113.5
10	819.0	QPSK	23.49	223.4	21.59	144.2
		16QAM	22.46	176.2	20.45	110.9

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	2498.5-2687.5	QPSK	28.34	682.3	29.32	855.1
		16QAM	27.09	511.7	29.00	794.3
10	2501.0-2685.0	QPSK	28.77	753.4	29.41	873.0
		16QAM	27.13	516.4	28.62	727.8
15	2503.5-2682.5	QPSK	28.69	739.6	29.95	988.6
		16QAM	27.28	534.6	29.54	899.5
20	2506.0-2680.0	QPSK	28.28	673.0	30.06	1013.9
		16QAM	27.76	597.0	29.56	903.6

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was version 12B331 Baseband 0.25.00.

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

5.4. MAXIMUM ANTENNA GAIN

Please see table below:

LTE BANDS	Antenna Gain (dBi)
LTE Band 2, 1850.7 – 1909.3MHz	1.5
LTE Band 4, 1710.7 – 1754.3MHz	1.1
LTE Band 5, 824.7 – 848.3MHz	0.5
LTE Band 13, 779.5 – 784.5MHz	0.1
LTE Band 17, 706.5 – 713.5MHz	-0.22
LTE Band 25, 1850.7 – 1914.3MHz	1.5
LTE Band 26, 814.7 – 847.5MHz	0.5
LTE Band 41, 2501.0 – 2685.0MHz	1.1

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 7, Band 5, 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, since the EUT is a portable device that has three orientations; an X, Y and Z orientations and the worst among X, Y, and Z with AC/DC adapter and headset have been investigated. The worst case was found to be at Z-position (Landscape) without AC/DC adapter and headset for all cell and pcs 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)

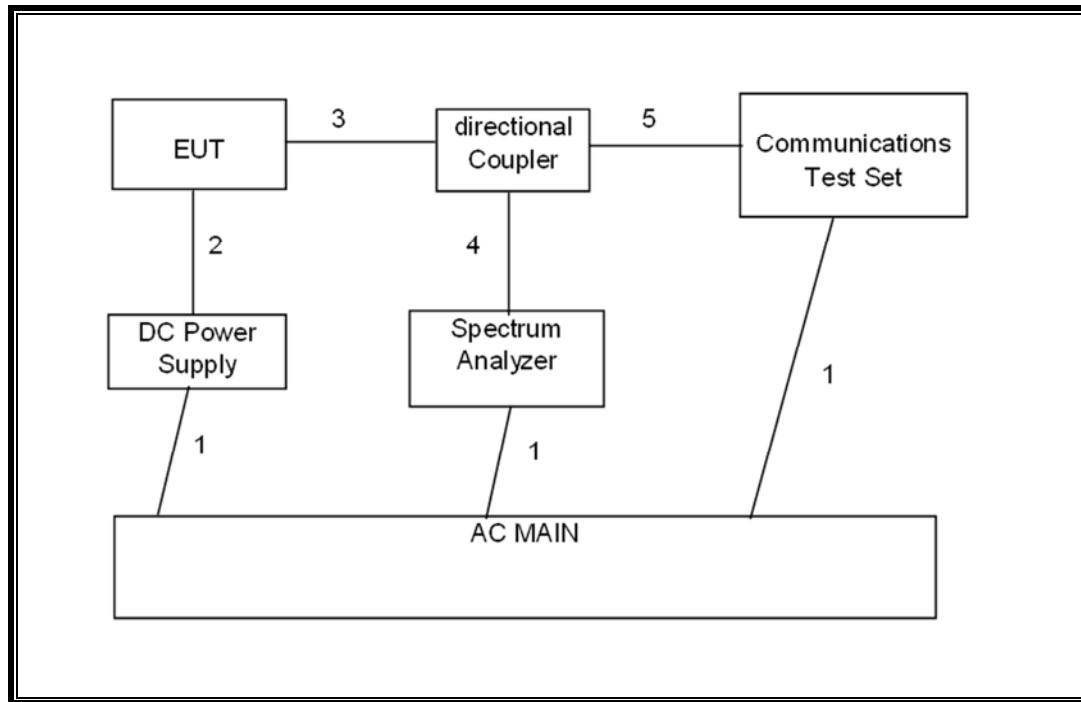
I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	2m	N/A
3	RF In/Out	1	EUT	Un-shielded	1m	N/A
4	RF In/Out	1	Spectrum	Un-shielded	1m	N/A
5	RF In/Out	1	Communication Test Set	Un-shielded	None	N/A

I/O CABLES (RF Radiated Test)

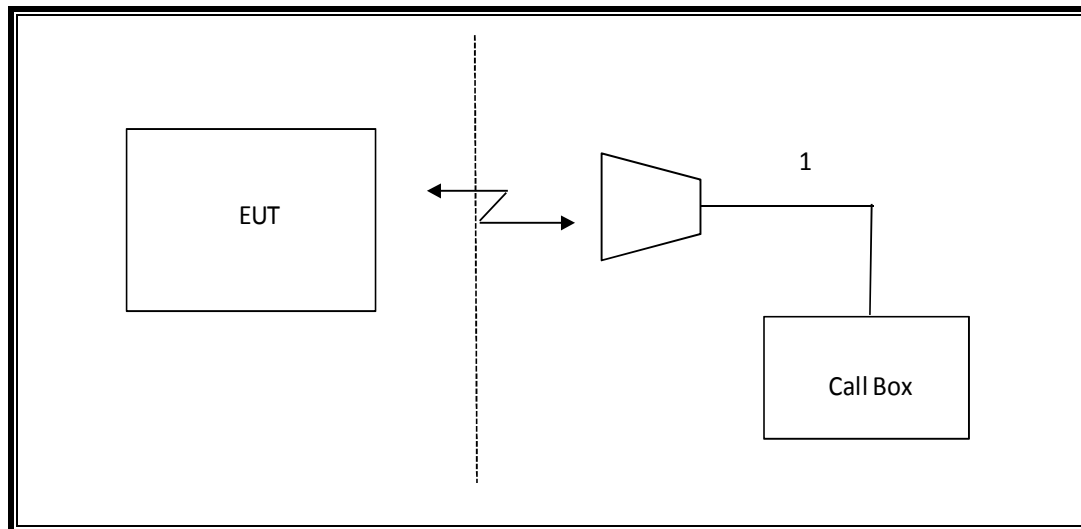
I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5m	NA

TEST SETUP

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
64 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

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	28.76	23.50
				1	2	28.61	23.44
				1	5	28.75	23.46
				3	0	28.84	23.45
				3	1	28.77	23.50
				3	2	28.81	23.48
			16QAM	6	0	28.33	22.57
				1	0	28.73	22.46
				1	2	28.67	22.48
				1	5	28.76	22.53
				3	0	28.77	22.48
				3	1	28.78	22.47
				3	2	28.80	22.60
				6	0	28.44	21.62
1.4	18900	1880.0	QPSK	1	0	28.74	23.45
				1	2	28.54	23.42
				1	5	28.69	23.45
				3	0	29.07	23.49
				3	1	28.88	23.50
				3	2	28.93	23.45
			16QAM	6	0	28.41	22.64
				1	0	28.73	22.53
				1	2	28.58	22.54
				1	5	28.69	22.52
				3	0	28.97	22.44
				3	1	28.89	22.48
				3	2	28.93	22.51
				6	0	28.38	21.63
1.4	19193	1909.3	QPSK	1	0	28.76	23.47
				1	2	28.49	23.40
				1	5	28.73	23.47
				3	0	28.91	23.50
				3	1	28.83	23.47
				3	2	28.86	23.49
			16QAM	6	0	28.21	22.58
				1	0	28.78	22.44
				1	2	28.53	22.36
				1	5	28.76	22.42
				3	0	28.91	22.41
				3	1	28.68	22.46
				3	2	28.76	22.51
				6	0	28.43	21.59

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	28.72	23.47
				1	7	28.46	23.39
				1	14	28.65	23.42
				8	0	28.15	22.63
				8	4	28.08	22.59
				8	7	28.17	22.62
				15	0	28.52	22.58
			16QAM	1	0	28.71	22.49
				1	7	28.58	22.51
				1	14	28.81	22.54
				8	0	28.01	21.56
				8	4	27.94	21.62
				8	7	28.14	21.57
				15	0	28.56	21.55
3.0	18900	1880.0	QPSK	1	0	28.75	23.44
				1	7	28.46	23.43
				1	14	28.72	23.45
				8	0	28.01	22.62
				8	4	27.96	22.62
				8	7	28.08	22.58
				15	0	28.44	22.59
			16QAM	1	0	28.28	22.47
				1	7	27.21	22.52
				1	14	28.29	22.47
				8	0	27.84	21.54
				8	4	27.80	21.59
				8	7	27.91	21.56
				15	0	28.33	21.60
3.0	19185	1908.5	QPSK	1	0	28.57	23.37
				1	7	28.34	23.34
				1	14	28.58	23.41
				8	0	28.01	22.58
				8	4	27.89	22.60
				8	7	28.01	22.55
				15	0	28.04	22.54
			16QAM	1	0	28.38	22.51
				1	7	27.64	22.53
				1	14	28.63	22.55
				8	0	27.95	21.53
				8	4	28.03	21.52
				8	7	28.05	21.61
				15	0	28.24	21.54

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	28.64	23.40
				1	12	28.46	23.40
				1	24	28.68	23.49
				12	0	28.10	22.62
				12	6	27.93	22.60
				12	11	28.11	22.57
				25	0	28.57	22.62
			16QAM	1	0	28.69	22.57
				1	12	28.52	22.55
				1	24	28.73	22.47
				12	0	27.98	21.52
				12	6	27.81	21.56
				12	11	27.94	21.54
				25	0	28.85	21.62
5.0	18900	1880.0	QPSK	1	0	28.86	23.50
				1	12	28.61	23.49
				1	24	28.73	23.50
				12	0	28.03	22.61
				12	6	28.04	22.58
				12	11	28.09	22.57
				25	0	28.60	22.61
			16QAM	1	0	28.61	22.52
				1	12	28.43	22.54
				1	24	28.13	22.48
				12	0	28.06	21.52
				12	6	27.82	21.52
				12	11	27.94	21.53
				25	0	28.80	21.53
5.0	19175	1907.5	QPSK	1	0	28.68	23.47
				1	12	28.50	23.48
				1	24	28.65	23.50
				12	0	27.97	22.60
				12	6	27.74	22.56
				12	11	27.83	22.61
				25	0	27.96	22.62
			16QAM	1	0	28.08	22.53
				1	12	27.29	22.51
				1	24	28.23	22.53
				12	0	28.02	21.61
				12	6	27.76	21.53
				12	11	27.72	21.54
				25	0	28.57	21.56

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	28.66	23.42
				1	24	28.67	23.46
				1	49	28.63	23.43
				25	0	28.14	22.58
				25	12	28.25	22.59
				25	24	28.13	22.53
				50	0	28.96	22.54
			16QAM	1	0	28.26	22.51
				1	24	28.23	22.55
				1	49	28.21	22.52
				25	0	28.14	21.56
				25	12	28.10	21.57
				25	24	28.12	21.56
				50	0	28.93	21.61
10.0	18900	1880.0	QPSK	1	0	28.64	23.46
				1	24	28.53	23.40
				1	49	28.48	23.45
				25	0	28.08	22.58
				25	12	28.12	22.54
				25	24	28.22	22.59
				50	0	28.57	22.61
			16QAM	1	0	28.64	22.50
				1	24	28.59	22.50
				1	49	27.90	22.48
				25	0	28.10	21.62
				25	12	28.02	21.58
				25	24	28.12	21.57
				50	0	28.32	21.53
10.0	19150	1905.0	QPSK	1	0	28.55	23.42
				1	24	28.41	23.33
				1	49	28.51	23.37
				25	0	28.03	22.58
				25	12	28.00	22.58
				25	24	28.03	22.59
				50	0	28.16	22.58
			16QAM	1	0	28.66	22.55
				1	24	28.48	22.55
				1	49	28.56	22.54
				25	0	28.10	21.58
				25	12	28.01	21.62
				25	24	28.01	21.54
				50	0	28.85	21.56

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	28.45	23.47
				1	37	28.33	23.46
				1	74	28.40	23.46
				36	0	28.24	22.57
				36	16	28.08	22.55
				36	35	27.98	22.58
				75	0	28.63	22.64
			16-QAM	1	0	28.59	22.47
				1	37	28.49	22.47
				1	74	28.59	22.50
				36	0	28.00	21.62
				36	16	27.97	21.62
				36	35	27.86	21.61
				75	0	28.67	21.57
15.0	18900	1880.0	QPSK	1	0	28.54	23.50
				1	37	28.48	23.49
				1	74	28.52	23.48
				36	0	28.29	22.63
				36	16	28.11	22.63
				36	35	28.12	22.59
				75	0	28.59	22.63
			16-QAM	1	0	28.71	22.44
				1	37	28.58	22.52
				1	74	28.67	22.50
				36	0	28.15	21.58
				36	16	28.00	21.54
				36	35	28.00	21.56
				75	0	28.76	21.56
15.0	19125	1902.5	QPSK	1	0	28.45	23.47
				1	37	28.43	23.49
				1	74	28.48	23.48
				36	0	28.25	22.61
				36	16	28.08	22.53
				36	35	28.01	22.58
				75	0	28.67	22.58
			16-QAM	1	0	28.64	22.40
				1	37	28.60	22.43
				1	74	28.46	22.38
				36	0	28.12	21.56
				36	16	27.97	21.55
				36	35	27.92	21.61
				75	0	28.57	21.59

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	28.68	23.49
				1	49	28.80	23.48
				1	99	28.83	23.49
				50	0	28.30	22.60
				50	24	28.06	22.60
				50	49	28.26	22.61
				100	0	28.72	22.58
			16-QAM	1	0	28.45	22.44
				1	49	28.25	22.45
				1	99	28.31	22.51
				50	0	28.33	21.55
				50	24	28.05	21.58
				50	49	28.17	21.61
				100	0	28.59	21.56
20.0	18900	1880.0	QPSK	1	0	28.95	23.48
				1	49	28.75	23.46
				1	99	28.72	23.48
				50	0	28.38	22.60
				50	24	28.19	22.52
				50	49	28.27	22.56
				100	0	28.37	22.57
			16-QAM	1	0	28.43	22.47
				1	49	27.51	22.48
				1	99	27.03	22.52
				50	0	28.19	21.59
				50	24	27.99	21.58
				50	49	28.03	21.54
				100	0	28.74	21.57
20.0	19100	1900.0	QPSK	1	0	28.74	23.47
				1	49	28.73	23.48
				1	99	28.77	23.50
				50	0	28.34	22.54
				50	24	28.14	22.56
				50	49	28.22	22.62
				100	0	28.97	22.60
			16-QAM	1	0	26.99	22.48
				1	49	28.01	22.52
				1	99	28.21	22.47
				50	0	28.20	21.61
				50	24	27.94	21.55
				50	49	28.13	21.60
				100	0	28.41	21.57

7.2. LTE BAND 4

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	27.91	23.50
				1	2	27.25	23.48
				1	5	28.58	23.46
				3	0	28.87	23.46
				3	1	28.34	23.45
				3	2	28.08	23.42
				6	0	27.83	22.56
			16QAM	1	0	28.08	22.54
				1	2	27.42	22.55
				1	5	27.95	22.55
				3	0	28.77	22.54
				3	1	28.21	22.54
				3	2	27.95	22.63
				6	0	27.72	21.62
1.4	20175	1732.5	QPSK	1	0	27.37	23.49
				1	2	27.30	23.49
				1	5	27.42	23.47
				3	0	27.68	23.46
				3	1	27.57	23.47
				3	2	27.57	23.46
				6	0	27.73	22.59
			16QAM	1	0	27.70	22.56
				1	2	27.31	22.48
				1	5	27.43	22.54
				3	0	27.46	22.48
				3	1	27.43	22.50
				3	2	27.45	22.56
				6	0	27.69	21.58
1.4	20393	1754.3	QPSK	1	0	27.42	23.48
				1	2	27.28	23.46
				1	5	27.30	23.47
				3	0	27.66	23.48
				3	1	27.47	23.46
				3	2	27.47	23.50
				6	0	27.66	22.55
			16QAM	1	0	27.38	22.49
				1	2	27.28	22.46
				1	5	27.30	22.52
				3	0	27.45	22.48
				3	1	27.38	22.53
				3	2	27.38	22.50
				6	0	27.64	21.59

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	27.34	23.50
				1	7	27.13	23.45
				1	14	28.31	23.46
				8	0	27.50	22.54
				8	4	27.35	22.52
				8	7	27.35	22.53
				15	0	27.81	22.57
			16QAM	1	0	27.32	22.53
				1	7	27.20	22.54
				1	14	27.13	22.41
				8	0	27.44	21.56
				8	4	27.37	21.61
				8	7	27.38	21.56
				15	0	27.81	21.56
3.0	20175	1732.5	QPSK	1	0	27.28	23.49
				1	7	27.26	23.46
				1	14	27.49	23.43
				8	0	27.46	22.47
				8	4	27.42	22.50
				8	7	27.54	22.51
				15	0	27.65	22.46
			16QAM	1	0	27.30	22.63
				1	7	27.27	22.59
				1	14	27.51	22.54
				8	0	27.39	21.61
				8	4	27.45	21.60
				8	7	27.53	21.62
				15	0	27.69	21.59
3.0	20385	1753.5	QPSK	1	0	27.58	23.47
				1	7	27.31	23.42
				1	14	27.33	23.40
				8	0	27.58	22.57
				8	4	27.37	22.47
				8	7	27.44	22.49
				15	0	28.05	22.45
			16QAM	1	0	27.56	22.57
				1	7	27.33	22.56
				1	14	27.34	22.52
				8	0	27.50	21.56
				8	4	27.36	21.55
				8	7	27.39	21.56
				15	0	27.89	21.48

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	27.33	23.49
				1	12	28.32	23.48
				1	24	28.47	23.45
				12	0	27.34	22.51
				12	6	27.20	22.53
				12	11	27.16	22.51
				25	0	27.82	22.47
			16QAM	1	0	27.32	22.58
				1	12	27.04	22.57
				1	24	26.98	22.50
				12	0	27.35	21.45
				12	6	27.24	21.48
				12	11	27.15	21.50
				25	0	27.79	21.52
5.0	20175	1732.5	QPSK	1	0	27.18	23.48
				1	12	27.29	23.50
				1	24	27.57	23.47
				12	0	27.32	22.47
				12	6	27.38	22.52
				12	11	27.48	22.47
				25	0	27.89	22.43
			16QAM	1	0	27.19	22.53
				1	12	27.28	22.53
				1	24	27.60	22.54
				12	0	27.35	21.43
				12	6	27.34	21.46
				12	11	27.46	21.44
				25	0	27.94	21.46
5.0	20375	1752.5	QPSK	1	0	27.69	23.44
				1	12	27.42	23.43
				1	24	27.30	23.49
				12	0	27.65	22.42
				12	6	27.47	22.47
				12	11	27.48	22.60
				25	0	27.93	22.53
			16QAM	1	0	27.70	22.60
				1	12	27.43	22.61
				1	24	27.33	22.58
				12	0	27.54	21.58
				12	6	27.32	21.56
				12	11	27.36	21.59
				25	0	27.80	21.62

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	27.35	23.50
				1	24	27.51	23.46
				1	49	28.12	23.48
				25	0	27.27	22.49
				25	12	27.06	22.48
				25	24	27.25	22.46
				50	0	27.48	22.54
			16QAM	1	0	27.36	22.59
				1	24	27.28	22.60
				1	49	27.44	22.57
				25	0	27.27	21.61
				25	12	27.07	21.56
				25	24	27.16	21.63
				50	0	27.42	21.50
10.0	20175	1732.5	QPSK	1	0	27.14	23.43
				1	24	27.28	23.47
				1	49	27.75	23.49
				25	0	27.23	22.47
				25	12	27.37	22.45
				25	24	27.60	22.45
				50	0	27.95	22.46
			16QAM	1	0	27.14	22.58
				1	24	27.29	22.51
				1	49	27.78	22.48
				25	0	27.30	21.55
				25	12	27.36	21.54
				25	24	27.57	21.62
				50	0	27.79	21.55
10.0	20350	1750.0	QPSK	1	0	28.01	23.44
				1	24	27.60	23.45
				1	49	27.31	23.47
				25	0	27.78	22.52
				25	12	27.59	22.47
				25	24	27.57	22.47
				50	0	27.76	22.52
			16QAM	1	0	28.02	22.49
				1	24	27.64	22.55
				1	49	27.35	22.49
				25	0	27.85	21.59
				25	12	27.52	21.61
				25	24	27.52	21.55
				50	0	28.04	21.49

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	27.30	23.49
				1	37	28.17	23.46
				1	74	28.25	23.47
				36	0	27.55	22.52
				36	16	27.60	22.54
				36	35	27.43	22.48
				75	0	28.43	22.56
			16-QAM	1	0	27.30	22.51
				1	37	26.72	22.54
				1	74	26.70	22.52
				36	0	27.28	21.59
				36	16	27.03	21.62
				36	35	27.18	21.52
				75	0	28.39	21.58
15.0	20175	1732.5	QPSK	1	0	27.80	23.49
				1	37	27.27	23.48
				1	74	27.80	23.49
				36	0	27.20	22.45
				36	16	27.37	22.49
				36	35	27.64	22.54
				75	0	27.87	22.56
			16-QAM	1	0	27.33	22.57
				1	37	27.28	22.55
				1	74	27.84	22.50
				36	0	27.17	21.56
				36	16	27.34	21.54
				36	35	27.60	21.54
				75	0	27.87	21.54
15.0	20325	1747.5	QPSK	1	0	27.91	23.48
				1	37	27.77	23.47
				1	74	27.30	23.47
				36	0	27.89	22.52
				36	16	27.77	22.55
				36	35	27.68	22.62
				75	0	28.04	22.59
			16-QAM	1	0	27.93	22.52
				1	37	27.81	22.50
				1	74	27.34	22.48
				36	0	27.82	21.52
				36	16	27.71	21.61
				36	35	27.61	21.62
				75	0	28.04	21.63

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	28.54	23.46
				1	49	28.25	23.48
				1	99	28.24	23.47
				50	0	27.88	22.53
				50	24	27.56	22.52
				50	49	27.77	22.55
				100	0	28.26	22.49
			16-QAM	1	0	27.21	22.50
				1	49	27.27	22.57
				1	99	27.04	22.51
				50	0	27.76	21.59
				50	24	27.04	21.48
				50	49	27.52	21.55
				100	0	27.85	21.53
20.0	20175	1732.5	QPSK	1	0	28.42	23.48
				1	49	27.29	23.46
				1	99	27.81	23.48
				50	0	27.59	22.52
				50	24	27.38	22.54
				50	49	27.69	22.59
				100	0	27.57	22.49
			16-QAM	1	0	27.13	22.52
				1	49	27.29	22.54
				1	99	27.86	22.52
				50	0	27.12	21.58
				50	24	27.39	21.59
				50	49	27.67	21.51
				100	0	27.89	21.61
20.0	20300	1745.0	QPSK	1	0	27.59	23.49
				1	49	27.87	23.47
				1	99	27.27	23.47
				50	0	27.80	22.46
				50	24	27.76	22.57
				50	49	27.73	22.56
				100	0	27.98	22.48
			16-QAM	1	0	27.61	22.57
				1	49	27.91	22.52
				1	99	27.32	22.53
				50	0	27.79	21.43
				50	24	27.76	21.49
				50	49	27.71	21.59
				100	0	27.76	21.58

7.3. LTE BAND 5

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	28.35	23.97
				1	2	28.17	23.88
				1	5	28.31	23.88
				3	0	28.54	23.90
				3	1	28.48	23.97
				3	2	28.54	23.97
			16QAM	6	0	28.55	23.05
				1	0	28.55	22.98
				1	2	28.46	22.97
				1	5	28.59	22.98
				3	0	28.69	23.04
				3	1	28.59	23.04
				3	2	28.62	23.04
				6	0	28.58	22.06
1.4	20525	836.5	QPSK	1	0	28.24	23.96
				1	2	28.09	23.93
				1	5	28.19	23.96
				3	0	28.57	23.95
				3	1	28.47	23.94
				3	2	28.45	24.00
			16QAM	6	0	29.14	23.07
				1	0	28.79	23.06
				1	2	28.62	22.94
				1	5	28.85	22.98
				3	0	28.71	22.93
				3	1	29.08	23.01
				3	2	29.08	23.00
				6	0	28.43	22.10
1.4	20643	848.3	QPSK	1	0	28.17	23.95
				1	2	28.04	23.92
				1	5	28.14	23.93
				3	0	28.31	23.97
				3	1	28.30	23.99
				3	2	28.28	23.96
			16QAM	6	0	28.16	22.92
				1	0	28.25	22.95
				1	2	28.26	22.90
				1	5	28.17	22.96
				3	0	28.38	22.91
				3	1	28.34	22.96
				3	2	28.33	22.94
				6	0	28.24	21.98

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	28.22	23.96
				1	7	28.07	23.88
				1	14	28.33	23.97
				8	0	28.32	23.07
				8	4	28.20	23.06
				8	7	28.28	23.04
				15	0	28.54	23.02
			16QAM	1	0	28.44	22.91
				1	7	28.27	22.89
				1	14	28.52	22.97
				8	0	28.04	22.14
				8	4	27.97	22.11
				8	7	28.10	22.13
				15	0	28.48	22.08
3.0	20525	836.5	QPSK	1	0	28.25	23.94
				1	7	28.06	23.87
				1	14	28.28	23.92
				8	0	28.24	23.04
				8	4	28.18	23.05
				8	7	28.15	22.98
				15	0	28.68	23.04
			16QAM	1	0	28.46	22.87
				1	7	28.26	22.88
				1	14	28.44	22.93
				8	0	27.98	22.11
				8	4	27.91	22.09
				8	7	27.93	22.01
				15	0	28.58	22.03
3.0	20635	847.5	QPSK	1	0	28.13	23.92
				1	7	27.92	23.87
				1	14	28.06	23.89
				8	0	28.00	22.91
				8	4	27.95	22.93
				8	7	27.97	22.89
				15	0	28.66	22.92
			16QAM	1	0	28.23	23.05
				1	7	28.19	23.06
				1	14	28.17	23.03
				8	0	27.84	21.95
				8	4	27.81	22.00
				8	7	27.83	21.98
				15	0	28.21	21.90

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	28.33	23.99
				1	12	28.32	24.00
				1	24	28.34	23.98
				12	0	28.27	23.07
				12	6	28.17	23.10
				12	11	28.36	23.08
				25	0	28.72	23.05
			16QAM	1	0	28.52	23.04
				1	12	28.64	23.05
				1	24	28.65	22.98
				12	0	28.21	21.96
				12	6	28.00	22.00
				12	11	28.11	22.01
				25	0	28.65	22.07
5.0	20525	836.5	QPSK	1	0	28.36	23.97
				1	12	28.13	23.91
				1	24	28.33	23.92
				12	0	28.29	23.03
				12	6	28.14	23.00
				12	11	28.24	22.99
				25	0	28.63	22.99
			16QAM	1	0	28.60	22.98
				1	12	28.54	22.92
				1	24	28.66	23.00
				12	0	28.17	21.94
				12	6	27.99	21.91
				12	11	27.98	21.91
				25	0	28.66	21.95
5.0	20625	846.5	QPSK	1	0	28.27	23.95
				1	12	28.11	23.92
				1	24	28.12	23.91
				12	0	27.94	22.89
				12	6	27.92	22.87
				12	11	27.95	22.87
				25	0	28.46	22.89
			16QAM	1	0	28.28	22.94
				1	12	28.20	22.98
				1	24	28.14	22.92
				12	0	28.04	21.88
				12	6	27.83	21.87
				12	11	27.92	21.87
				25	0	28.53	21.86

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	28.01	23.93
				1	24	28.13	23.98
				1	49	28.05	23.95
				25	0	28.27	23.10
				25	12	28.16	23.03
				25	24	28.26	23.07
				50	0	28.42	23.03
			16QAM	1	0	28.53	23.00
				1	24	28.67	22.93
				1	49	28.66	22.94
				25	0	28.27	22.04
				25	12	28.19	22.07
				25	24	28.25	22.09
				50	0	28.91	22.08
10.0	20525	836.5	QPSK	1	0	28.06	23.92
				1	24	28.08	23.84
				1	49	28.13	23.95
				25	0	28.21	22.98
				25	12	28.14	23.01
				25	24	28.13	22.95
				50	0	28.37	23.02
			16QAM	1	0	28.29	22.87
				1	24	28.37	22.84
				1	49	28.32	22.88
				25	0	28.10	22.05
				25	12	27.98	21.99
				25	24	28.13	22.02
				50	0	28.99	22.03
10.0	20600	844.0	QPSK	1	0	27.96	23.82
				1	24	28.13	23.89
				1	49	27.96	23.87
				25	0	28.11	22.90
				25	12	28.23	22.97
				25	24	28.16	22.91
				50	0	29.07	23.05
			16QAM	1	0	28.26	22.81
				1	24	28.37	22.84
				1	49	28.15	22.90
				25	0	28.02	21.91
				25	12	28.06	21.98
				25	24	28.03	22.02
				50	0	28.30	22.09

7.4. LTE BAND 13

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	28.84	24.00
				1	12	28.79	23.98
				1	24	28.93	23.96
				12	0	28.30	23.04
				12	6	28.26	23.09
				12	11	28.39	23.10
				25	0	28.78	23.00
			16QAM	1	0	28.62	23.12
				1	12	28.62	23.11
				1	24	28.42	23.10
				12	0	28.13	21.98
				12	6	28.09	21.97
				12	11	28.12	21.95
				25	0	28.84	21.99
5.0	23230	782.0	QPSK	1	0	28.69	23.94
				1	12	28.47	23.94
				1	24	28.65	23.95
				12	0	28.30	23.04
				12	6	28.10	22.99
				12	11	28.24	23.05
				25	0	28.53	22.97
			16QAM	1	0	28.77	23.10
				1	12	28.52	23.10
				1	24	28.69	23.11
				12	0	28.10	22.05
				12	6	27.90	22.01
				12	11	28.00	22.07
				25	0	28.85	22.05
5.0	23255	784.5	QPSK	1	0	28.41	23.91
				1	12	28.56	23.92
				1	24	28.60	23.94
				12	0	28.28	23.00
				12	6	28.12	22.96
				12	11	28.16	23.02
				25	0	28.50	22.91
			16QAM	1	0	28.68	23.03
				1	12	28.70	23.07
				1	24	28.66	23.07
				12	0	28.02	22.01
				12	6	28.00	22.02
				12	11	28.00	22.05
				25	0	28.60	22.10

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	28.67	23.96
				1	24	28.48	23.90
				1	49	28.58	23.90
				25	0	28.20	22.97
				25	12	28.22	22.97
				25	24	28.32	23.03
				50	0	28.88	23.09
			16QAM	1	0	28.43	22.97
				1	24	28.25	22.95
				1	49	28.06	22.88
				25	0	28.17	22.04
				25	12	28.22	22.05
				25	24	28.26	22.02
				50	0	28.61	22.01

7.5. LTE BAND 17

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	28.43	23.95
				1	12	28.41	23.96
				1	24	28.60	23.98
				12	0	28.14	23.09
				12	6	28.14	23.06
				12	11	28.10	23.11
				25	0	28.58	23.04
			16QAM	1	0	28.53	23.12
				1	12	28.51	23.10
				1	24	28.61	23.11
				12	0	27.97	22.07
				12	6	27.88	22.12
				12	11	27.97	22.11
				25	0	28.59	22.04
5.0	23790	710.0	QPSK	1	0	28.51	23.99
				1	12	28.44	23.95
				1	24	28.72	23.94
				12	0	28.18	23.11
				12	6	28.04	23.05
				12	11	28.09	23.09
				25	0	28.53	22.98
			16QAM	1	0	28.58	23.12
				1	12	28.61	23.08
				1	24	28.78	23.04
				12	0	27.97	22.05
				12	6	27.85	22.10
				12	11	27.88	22.09
				25	0	28.82	22.05
5.0	23825	713.5	QPSK	1	0	28.62	24.00
				1	12	28.68	23.97
				1	24	28.11	23.88
				12	0	28.18	23.04
				12	6	28.17	23.11
				12	11	28.18	23.10
				25	0	28.86	23.10
			16QAM	1	0	28.71	23.05
				1	12	28.76	23.03
				1	24	28.24	22.98
				12	0	27.98	22.10
				12	6	27.95	22.10
				12	11	27.99	22.10
				25	0	28.84	22.08

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	28.39	23.98
				1	24	28.55	23.94
				1	49	28.82	23.89
				25	0	28.26	23.07
				25	12	28.24	23.11
				25	24	28.27	23.12
				50	0	28.74	23.07
			16QAM	1	0	28.29	22.90
				1	24	28.18	22.91
				1	49	28.30	22.99
				25	0	28.25	22.06
				25	12	28.12	22.06
				25	24	28.06	22.10
					0	28.44	22.07
10.0	23790	710.0	QPSK	1	0	28.52	24.00
				1	24	28.65	23.95
				1	49	28.34	23.90
				25	0	28.25	23.10
				25	12	28.21	23.06
				25	24	28.20	23.03
				50	0	28.44	23.11
			16QAM	1	0	28.30	22.95
				1	24	28.18	22.86
				1	49	28.39	22.94
				25	0	28.10	22.12
				25	12	28.03	22.12
				25	24	28.07	22.11
				50	0	28.87	22.08
10.0	23800	711.0	QPSK	1	0	28.48	23.99
				1	24	28.52	23.96
				1	49	28.64	23.86
				25	0	28.25	23.05
				25	12	28.20	23.08
				25	24	28.27	23.10
				50	0	29.13	23.10
			16QAM	1	0	28.55	23.03
				1	24	28.66	23.10
				1	49	28.74	23.09
				25	0	28.24	22.05
				25	12	28.15	22.11
				25	24	28.21	22.11
				50	0	28.89	22.09

7.6. LTE BAND 25

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	28.82	23.50
				1	2	28.63	23.49
				1	5	28.81	23.49
				3	0	28.88	23.46
				3	1	28.84	23.48
				3	2	28.89	23.48
				6	0	28.32	22.56
			16QAM	1	0	28.79	22.55
				1	2	28.68	22.46
				1	5	28.81	22.54
				3	0	28.83	22.48
				3	1	28.78	22.45
				3	2	28.85	22.50
				6	0	28.41	21.57
1.4	26365	1882.5	QPSK	1	0	28.73	23.46
				1	2	28.48	23.37
				1	5	28.81	23.40
				3	0	29.05	23.48
				3	1	28.87	23.46
				3	2	28.94	23.47
				6	0	28.46	22.57
			16QAM	1	0	28.70	22.51
				1	2	28.61	22.57
				1	5	28.79	22.54
				3	0	28.98	22.56
				3	1	28.89	22.52
				3	2	28.87	22.47
				6	0	28.35	21.52
1.4	26683	1914.3	QPSK	1	0	28.79	23.43
				1	2	28.57	23.47
				1	5	28.85	23.48
				3	0	28.98	23.44
				3	1	28.89	23.46
				3	2	29.00	23.45
				6	0	28.30	22.55
			16QAM	1	0	28.77	22.47
				1	2	28.65	22.50
				1	5	28.86	22.54
				3	0	28.97	22.50
				3	1	28.79	22.49
				3	2	28.83	22.53
				6	0	28.41	21.57

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	28.68	23.49
				1	7	28.47	23.42
				1	14	28.85	23.48
				8	0	28.18	22.55
				8	4	28.08	22.54
				8	7	28.23	22.61
				15	0	28.39	22.61
			16QAM	1	0	28.72	22.51
				1	7	28.61	22.56
				1	14	28.83	22.56
				8	0	28.03	21.48
				8	4	28.03	21.45
				8	7	28.20	21.55
				15	0	28.52	21.52
3.0	26365	1882.5	QPSK	1	0	28.74	23.45
				1	7	28.56	23.46
				1	14	28.80	23.48
				8	0	28.24	22.57
				8	4	28.06	22.52
				8	7	28.20	22.53
				15	0	28.15	22.60
			16QAM	1	0	27.54	22.43
				1	7	27.04	22.45
				1	14	27.16	22.45
				8	0	27.75	21.56
				8	4	27.72	21.51
				8	7	27.90	21.53
				15	0	28.15	21.47
3.0	26675	1913.5	QPSK	1	0	28.64	23.49
				1	7	28.42	23.43
				1	14	28.69	23.49
				8	0	28.14	22.54
				8	4	28.01	22.60
				8	7	28.14	22.49
				15	0	28.52	22.56
			16QAM	1	0	28.73	22.53
				1	7	28.47	22.49
				1	14	28.73	22.56
				8	0	27.91	21.45
				8	4	27.82	21.54
				8	7	28.02	21.52
				15	0	28.44	21.47

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	28.76	23.48
				1	12	28.70	23.47
				1	24	28.92	23.46
				12	0	28.01	22.48
				12	6	28.07	22.54
				12	11	28.17	22.52
				25	0	28.75	22.50
			16QAM	1	0	28.56	22.58
				1	12	28.55	22.58
				1	24	28.64	22.54
				12	0	28.09	21.47
				12	6	27.95	21.56
				12	11	28.09	21.50
				25	0	28.82	21.55
5.0	26365	1882.5	QPSK	1	0	28.85	23.50
				1	12	28.76	23.50
				1	24	28.82	23.45
				12	0	28.11	22.60
				12	6	27.95	22.52
				12	11	28.03	22.57
				25	0	28.53	22.48
			16QAM	1	0	28.60	22.50
				1	12	28.49	22.53
				1	24	27.22	22.51
				12	0	28.01	21.48
				12	6	27.81	21.44
				12	11	27.99	21.52
				25	0	28.51	21.50
5.0	26665	1912.5	QPSK	1	0	28.58	23.40
				1	12	28.35	23.46
				1	24	28.62	23.48
				12	0	28.19	22.59
				12	6	27.93	22.53
				12	11	28.01	22.56
				25	0	28.29	22.51
			16QAM	1	0	28.66	22.58
				1	12	28.50	22.48
				1	24	28.71	22.52
				12	0	28.03	21.53
				12	6	27.80	21.54
				12	11	27.79	21.49
				25	0	28.59	21.61

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	28.57	23.42
				1	24	28.63	23.48
				1	49	28.59	23.46
				25	0	28.24	22.53
				25	12	28.09	22.51
				25	24	28.30	22.60
				50	0	28.35	22.59
			16QAM	1	0	28.66	22.56
				1	24	28.68	22.49
				1	49	28.66	22.49
				25	0	28.27	21.49
				25	12	28.13	21.51
				25	24	28.21	21.54
				50	0	28.55	21.51
10.0	26365	1882.5	QPSK	1	0	28.69	23.48
				1	24	28.55	23.43
				1	49	27.84	23.49
				25	0	28.07	22.51
				25	12	28.10	22.53
				25	24	28.24	22.57
				50	0	28.21	22.51
			16QAM	1	0	28.76	22.52
				1	24	28.42	22.44
				1	49	27.59	22.49
				25	0	28.18	21.52
				25	12	28.10	21.46
				25	24	28.12	21.51
				50	0	28.76	21.53
10.0	26640	1910.0	QPSK	1	0	28.49	23.43
				1	24	28.52	23.49
				1	49	28.65	23.46
				25	0	28.02	22.49
				25	12	28.11	22.51
				25	24	27.99	22.55
				50	0	29.03	22.51
			16QAM	1	0	26.99	22.43
				1	24	27.20	22.42
				1	49	28.14	22.58
				25	0	28.03	21.48
				25	12	27.89	21.50
				25	24	27.99	21.50
				50	0	28.19	21.47

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	28.53	23.48
				1	37	28.45	23.47
				1	74	28.55	23.43
				36	0	28.33	22.50
				36	16	28.15	22.47
				36	35	28.16	22.54
				75	0	28.68	22.60
			16-QAM	1	0	28.71	22.46
				1	37	28.62	22.47
				1	74	28.69	22.52
				36	0	28.20	21.55
				36	16	28.08	21.53
				36	35	28.05	21.50
				75	0	28.80	21.50
15.0	26365	1882.5	QPSK	1	0	28.55	23.50
				1	37	28.46	23.49
				1	74	28.41	23.46
				36	0	28.18	22.47
				36	16	28.07	22.48
				36	35	28.00	22.61
				75	0	28.61	22.55
			16-QAM	1	0	28.76	22.50
				1	37	28.62	22.49
				1	74	28.13	22.49
				36	0	28.07	21.51
				36	16	27.93	21.46
				36	35	27.85	21.49
				75	0	28.59	21.43
15.0	26615	1907.5	QPSK	1	0	28.64	23.43
				1	37	28.43	23.38
				1	74	28.61	23.48
				36	0	28.22	22.61
				36	16	27.94	22.62
				36	35	28.09	22.59
				75	0	28.85	22.61
			16-QAM	1	0	28.21	22.48
				1	37	26.96	22.58
				1	74	28.19	22.45
				36	0	28.19	21.48
				36	16	27.92	21.48
				36	35	28.01	21.46
				75	0	28.74	21.47

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	28.76	23.50
				1	49	28.70	23.49
				1	99	28.79	23.50
				50	0	28.34	22.58
				50	24	28.11	22.56
				50	49	28.24	22.55
				100	0	28.79	22.61
			16-QAM	1	0	28.55	22.49
				1	49	28.30	22.53
				1	99	28.45	22.50
				50	0	28.19	21.52
				50	24	28.07	21.51
				50	49	28.19	21.49
				100	0	28.61	21.55
20.0	26365	1882.5	QPSK	1	0	29.00	23.48
				1	49	28.71	23.44
				1	99	28.78	23.49
				50	0	28.40	22.57
				50	24	28.12	22.59
				50	49	28.25	22.54
				100	0	28.49	22.51
			16-QAM	1	0	28.48	22.51
				1	49	27.03	22.57
				1	99	27.04	22.54
				50	0	28.19	21.53
				50	24	27.94	21.52
				50	49	28.01	21.46
				100	0	28.34	21.45
20.0	26590	1905.0	QPSK	1	0	28.84	23.50
				1	49	28.58	23.48
				1	99	28.77	23.47
				50	0	28.46	22.52
				50	24	28.15	22.49
				50	49	28.28	22.50
				100	0	28.70	22.55
			16-QAM	1	0	28.52	22.49
				1	49	27.51	22.57
				1	99	28.38	22.52
				50	0	28.32	21.50
				50	24	28.13	21.49
				50	49	28.17	21.43
				100	0	28.97	21.54

7.7. LTE BAND 26

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	28.51	23.48
				1	7	28.25	23.47
				1	14	28.55	23.49
				8	0	27.85	22.55
				8	4	27.79	22.56
				8	7	27.84	22.60
				15	0	28.12	22.57
			16QAM	1	0	28.04	22.49
				1	7	27.78	22.41
				1	14	27.93	22.47
				8	0	27.63	21.62
				8	4	27.55	21.63
				8	7	27.64	21.56
				15	0	28.06	21.64
3.0	26865	821.3	QPSK	1	0	28.49	23.46
				1	7	28.32	23.48
				1	14	28.50	23.46
				8	0	27.94	22.60
				8	4	27.84	22.58
				8	7	27.74	22.62
				15	0	28.05	22.61
			16QAM	1	0	27.75	22.50
				1	7	27.84	22.42
				1	14	27.99	22.48
				8	0	27.66	21.63
				8	4	27.60	21.63
				8	7	27.68	21.63
				15	0	28.06	21.63
3.0	27025	822.3	QPSK	1	0	28.49	23.46
				1	7	28.31	23.45
				1	14	28.50	23.45
				8	0	27.88	22.62
				8	4	27.83	22.60
				8	7	27.93	22.60
				15	0	28.11	22.60
			16QAM	1	0	27.89	22.51
				1	7	27.85	22.40
				1	14	28.01	22.45
				8	0	27.66	21.62
				8	4	27.61	21.63
				8	7	27.68	21.64
				15	0	27.93	21.63

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	28.54	23.48
				1	12	28.40	23.46
				1	24	28.57	23.47
				12	0	27.91	22.56
				12	6	27.76	22.61
				12	11	27.82	22.60
				25	0	28.19	22.60
			16QAM	1	0	28.31	22.49
				1	12	27.90	22.54
				1	24	27.98	22.51
				12	0	27.77	21.56
				12	6	27.56	21.52
				12	11	27.73	21.55
				25	0	28.42	21.62

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	28.53	23.49
				1	24	28.39	23.47
				1	49	28.43	23.43
				25	0	27.64	22.46
				25	12	27.66	22.48
				25	24	28.53	22.44
				50	0	28.70	22.56
			16QAM	1	0	27.54	22.40
				1	24	27.65	22.46
				1	49	27.55	22.43
				25	0	27.73	21.45
				25	12	27.61	21.43
				25	24	27.57	21.43
				50	0	28.45	21.36

7.8. LTE BAND 41

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	27.03	22.49
				1	12	27.93	22.44
				1	24	28.34	22.43
				12	0	27.17	21.59
				12	6	27.20	21.60
				12	11	27.36	21.62
				25	0	27.69	21.63
			16QAM	1	0	26.54	21.43
				1	12	26.74	21.49
				1	24	26.96	21.58
				12	0	26.25	20.49
				12	6	26.26	20.54
				12	11	26.49	20.57
				25	0	27.09	20.60
5.0	40620	2593.0	QPSK	1	0	26.75	22.47
				1	12	26.76	22.46
				1	24	26.77	22.50
				12	0	27.34	21.58
				12	6	27.31	21.62
				12	11	27.39	21.57
				25	0	27.79	21.60
			16QAM	1	0	26.90	21.60
				1	12	26.76	21.52
				1	24	26.87	21.56
				12	0	26.64	20.54
				12	6	26.47	20.54
				12	11	26.58	20.54
				25	0	26.83	20.58
5.0	41565	2687.5	QPSK	1	0	26.29	22.35
				1	12	26.23	22.38
				1	24	26.20	22.39
				12	0	26.02	21.49
				12	6	25.91	21.44
				12	11	25.95	21.46
				25	0	26.61	21.43
			16QAM	1	0	25.62	21.47
				1	12	25.47	21.48
				1	24	25.45	21.41
				12	0	26.17	20.40
				12	6	25.91	20.45
				12	11	26.00	20.40
				25	0	26.59	20.46

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	28.48	22.47
				1	24	28.77	22.49
				1	49	28.70	22.46
				25	0	27.47	21.61
				25	12	27.47	21.56
				25	24	27.51	21.56
				50	0	27.65	21.59
			16QAM	1	0	26.50	21.36
				1	24	27.06	21.37
				1	49	27.03	21.38
				25	0	26.84	20.61
				25	12	26.74	20.63
				25	24	26.77	20.61
				50	0	27.13	20.50
10.0	40620	2593.0	QPSK	1	0	27.23	22.47
				1	24	27.19	22.42
				1	49	27.31	22.38
				25	0	27.36	21.60
				25	12	27.38	21.57
				25	24	27.45	21.58
				50	0	27.65	21.62
			16QAM	1	0	26.72	21.58
				1	24	26.75	21.47
				1	49	26.88	21.55
				25	0	26.59	20.63
				25	12	26.47	20.60
				25	24	26.56	20.61
				50	0	26.84	20.55
10.0	41540	2685.0	QPSK	1	0	26.73	22.34
				1	24	26.61	22.32
				1	49	26.56	22.32
				25	0	26.12	21.43
				25	12	25.95	21.44
				25	24	26.03	21.44
				50	0	26.76	21.40
			16QAM	1	0	25.57	21.35
				1	24	25.49	21.33
				1	49	25.49	21.35
				25	0	26.26	20.53
				25	12	26.01	20.53
				25	24	26.03	20.44
				50	0	26.52	20.42

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	27.61	22.48
				1	37	28.69	22.45
				1	74	27.11	22.46
				36	0	27.80	21.59
				36	16	27.78	21.61
				36	35	27.68	21.55
				75	0	27.80	21.56
			16-QAM	1	0	26.25	21.35
				1	37	26.56	21.33
				1	74	25.90	21.33
				36	0	26.67	20.57
				36	16	26.59	20.62
				36	35	26.51	20.60
				75	0	27.14	20.64
15.0	40620	2593.0	QPSK	1	0	26.98	22.49
				1	37	27.16	22.46
				1	74	27.26	22.46
				36	0	27.59	21.57
				36	16	27.62	21.55
				36	35	27.75	21.59
				75	0	27.96	21.63
			16-QAM	1	0	26.98	21.58
				1	37	27.20	21.56
				1	74	27.28	21.53
				36	0	26.45	20.63
				36	16	26.36	20.57
				36	35	26.51	20.55
				75	0	27.13	20.63
15.0	41515	2682.5	QPSK	1	0	26.70	22.30
				1	37	26.60	22.30
				1	74	26.51	22.32
				36	0	26.38	21.47
				36	16	26.09	21.44
				36	35	26.17	21.41
				75	0	26.91	21.46
			16-QAM	1	0	25.83	21.57
				1	37	25.72	21.54
				1	74	25.57	21.50
				36	0	26.21	20.48
				36	16	25.87	20.50
				36	35	26.00	20.41
				75	0	26.86	20.52

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	28.28	22.48
				1	49	27.12	22.46
				1	99	27.24	22.46
				50	0	27.54	21.57
				50	24	27.48	21.58
				50	49	27.25	21.55
				100	0	27.51	21.54
			16-QAM	1	0	26.85	21.55
				1	49	25.99	21.43
				1	99	26.58	21.58
				50	0	27.76	20.62
				50	24	26.53	20.62
				50	49	26.41	20.60
				100	0	26.86	20.59
20.0	40620	2593.0	QPSK	1	0	27.47	22.48
				1	49	27.23	22.49
				1	99	27.72	22.46
				50	0	27.37	21.56
				50	24	27.41	21.59
				50	49	27.49	21.64
				100	0	27.71	21.59
			16-QAM	1	0	26.73	21.60
				1	49	27.00	21.56
				1	99	27.02	21.56
				50	0	27.21	20.60
				50	24	26.47	20.60
				50	49	26.65	20.56
				100	0	27.02	20.51
20.0	41490	2680.0	QPSK	1	0	26.61	22.35
				1	49	26.50	22.35
				1	99	26.38	22.35
				50	0	26.17	21.40
				50	24	26.04	21.42
				50	49	26.16	21.46
				100	0	26.80	21.40
			16-QAM	1	0	25.61	21.44
				1	49	25.43	21.42
				1	99	25.91	21.57
				50	0	26.17	20.45
				50	24	25.96	20.39
				50	49	26.01	20.44
				100	0	26.65	20.48

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	1.0958	1.213
	1.4 MHz BAND 16QAM	6/0	1880	1.0662	1.216
	3.0 MHz BAND QPSK	15/0	1880	2.6732	2.863
	3.0 MHz BAND 16QAM	15/0	1880	2.6798	2.818
	5.0 MHz BAND QPSK	25/0	1880	4.4292	4.617
	5.0 MHz BAND 16QAM	25/0	1880	4.4894	4.586
	10.0 MHz BAND QPSK	50/0	1880	8.8126	9.173
	10.0 MHz BAND 16QAM	50/0	1880	8.9576	9.197
	15.0 MHz BAND QPSK	75/0	1880	13.3283	14.290
	15.0 MHz BAND 16QAM	75/0	1880	13.3441	13.754
	20.0 MHz BAND QPSK	100/0	1880	17.8158	18.366
	20.0 MHz BAND 16QAM	100/0	1880	17.8433	18.365

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	1.0803	1.225
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0750	1.184
	3.0 MHz BAND QPSK	15/0	1732.5	2.6673	2.894
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6734	2.815
	5.0 MHz BAND QPSK	25/0	1732.5	4.4548	4.776
	5.0 MHz BAND 16QAM	25/0	1732.5	4.4452	4.621
	10.0 MHz BAND QPSK	50/0	1732.5	8.9577	9.164
	10.0 MHz BAND 16QAM	50/0	1732.5	8.9347	9.216
	15.0 MHz BAND QPSK	75/0	1732.5	13.2750	13.945
	15.0 MHz BAND 16QAM	75/0	1732.5	13.3493	13.745
	20.0 MHz BAND QPSK	100/0	1732.5	17.5900	18.353
	20.0 MHz BAND 16QAM	100/0	1732.5	17.6289	18.308

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	1.0825	1.214
	1.4 MHz BAND 16QAM	6/0	836.5	1.0869	1.280
	3.0 MHz BAND QPSK	15/0	836.5	2.6804	2.859
	3.0 MHz BAND 16QAM	15/0	836.5	2.6825	2.791
	5.0 MHz BAND QPSK	25/0	836.5	4.4224	4.598
	5.0 MHz BAND 16QAM	25/0	836.5	4.4440	4.608
	10.0 MHz BAND QPSK	50/0	836.5	8.8245	9.237
	10.0 MHz BAND 16QAM	50/0	836.5	8.8273	9.165

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	4.4472	4.656
	5.0 MHz BAND 16QAM	25/0	782	4.4402	4.615
	10.0 MHz BAND QPSK	50/0	782	8.9543	9.148
	10.0 MHz BAND 16QAM	50/0	782	8.9274	9.367

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	4.4576	4.590
	5.0 MHz BAND 16QAM	25/0	710	4.4475	4.627
	10.0 MHz BAND QPSK	50/0	710	8.9381	9.208
	10.0 MHz BAND 16QAM	50/0	710	8.9139	9.238

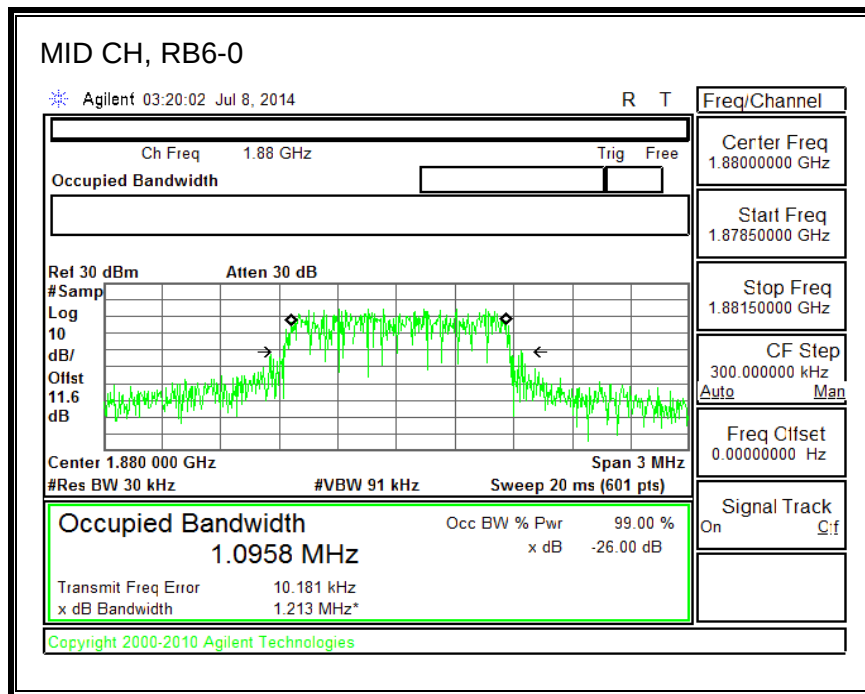
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 25	1.4 MHz BAND QPSK	6/0	1882.5	1.0788	1.217
	1.4 MHz BAND 16QAM	6/0	1882.5	1.0621	1.261
	3.0 MHz BAND QPSK	15/0	1882.5	2.6732	2.813
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6746	2.854
	5.0 MHz BAND QPSK	25/0	1882.5	4.4012	4.653
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4303	4.624
	10.0 MHz BAND QPSK	50/0	1882.5	8.9850	9.525
	10.0 MHz BAND 16QAM	50/0	1882.5	8.9004	9.537
	15.0 MHz BAND QPSK	75/0	1882.5	13.4160	13.738
	15.0 MHz BAND 16QAM	75/0	1882.5	13.3118	13.799
	20.0 MHz BAND QPSK	100/0	1882.5	17.6271	18.318
	20.0 MHz BAND 16QAM	100/0	1882.5	17.7818	18.693

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	2.6749	2.769
	3.0 MHz BAND 16QAM	15/0	821.3	2.6393	2.856
	5.0 MHz BAND QPSK	25/0	821.3	4.4680	4.591
	5.0 MHz BAND 16QAM	25/0	821.3	4.4301	4.627
	10.0 MHz BAND QPSK	50/0	819	8.9248	9.291
	10.0 MHz BAND 16QAM	50/0	819	8.9622	9.261

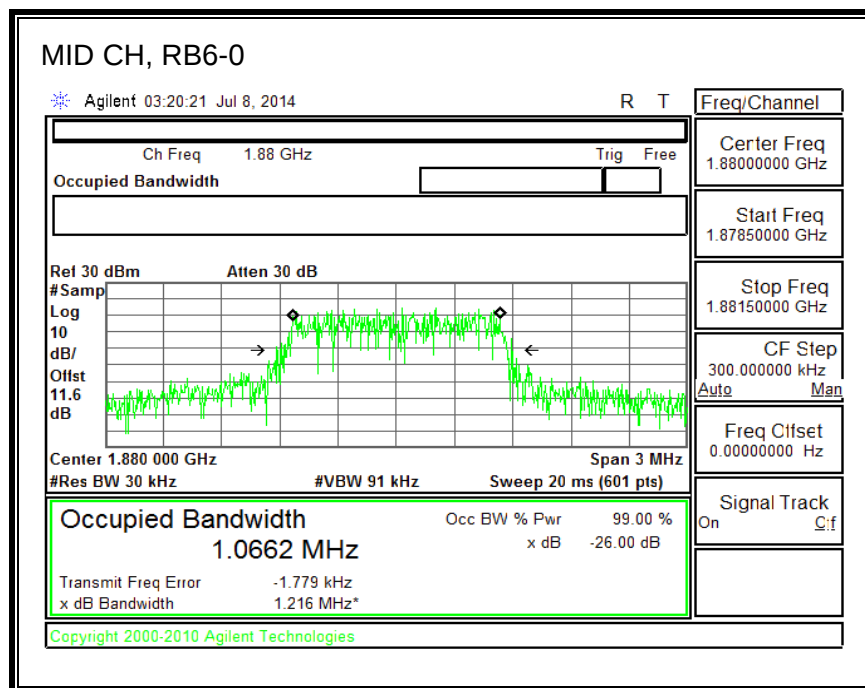
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 41	5.0 MHz BAND QPSK	25/0	2593	4.4643	4.684
	5.0 MHz BAND 16QAM	25/0	2593	4.4666	4.624
	10.0 MHz BAND QPSK	50/0	2593	8.8944	9.214
	10.0 MHz BAND 16QAM	50/0	2593	8.8526	9.164
	15.0 MHz BAND QPSK	75/0	2593	13.3101	13.840
	15.0 MHz BAND 16QAM	75/0	2593	13.3541	13.845
	20.0 MHz BAND QPSK	100/0	2593	17.7415	18.426
	20.0 MHz BAND 16QAM	100/0	2593	17.6463	18.567

8.1.1. LTE BAND 2

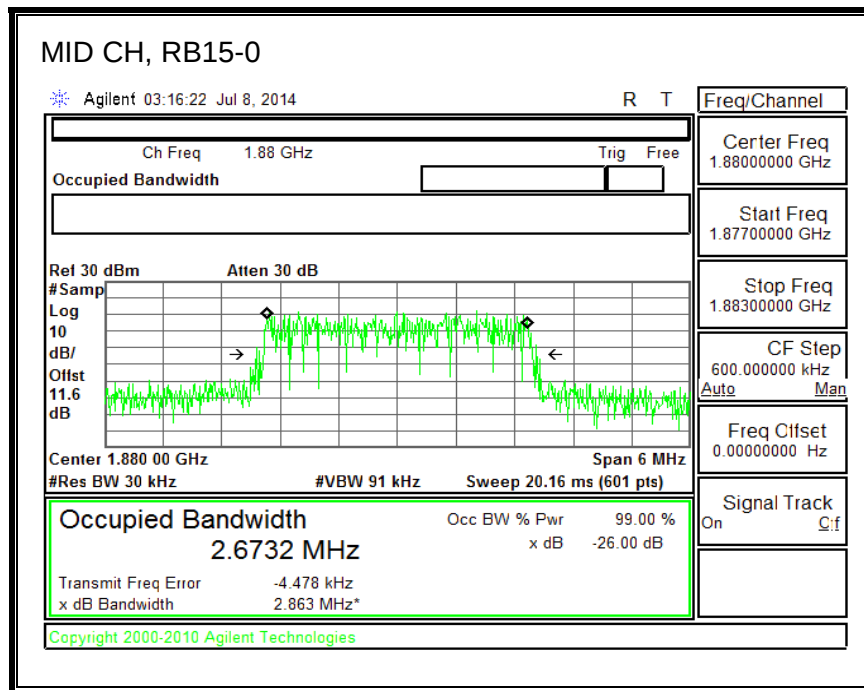
QPSK, (1.4 MHz BAND WIDTH)



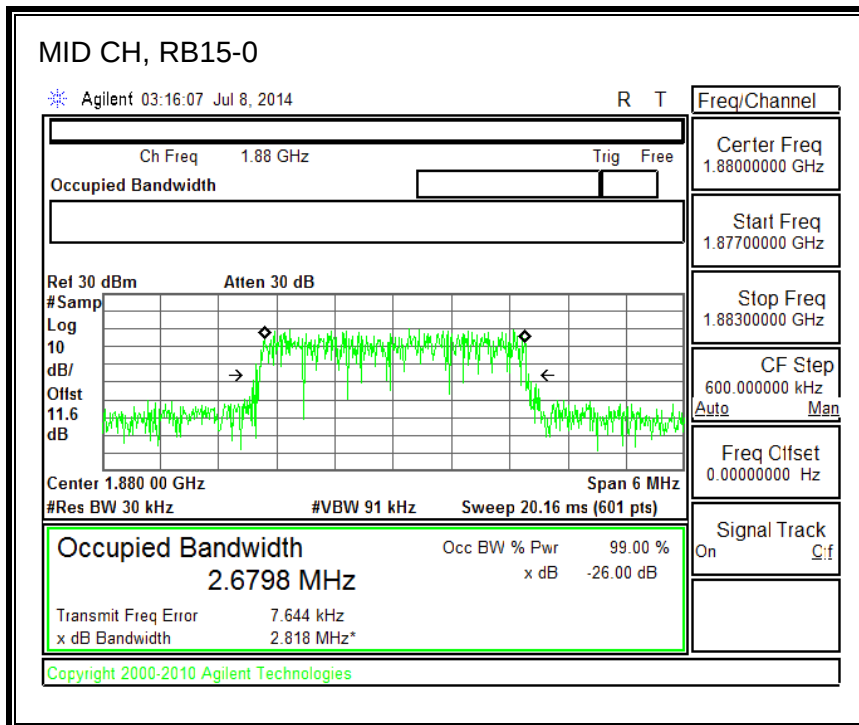
16QAM, (1.4 MHz BAND WIDTH)



QPSK, (3.0 MHz BAND WIDTH)



16QAM, (3.0 MHz BAND WIDTH)



[illegible]

MID CH, RB25-0

Agilent 03:12:03 Jul 8, 2014 R T

Ch Freq 1.88 GHz		Trig Free	Freq/Channel	
Occupied Bandwidth				Center Freq 1.88000000 GHz
				Start Freq 1.87500000 GHz
				Stop Freq 1.88500000 GHz
				CF Step 1.00000000 MHz Auto Man
				Freq Cntset 0.00000000 Hz

Ref 30 dBm Atten 30 dB

Samp 10

Log

10

dB/

Offset 11.6

dB

Center 1.880 000 GHz Span 10 MHz

#Res BW 51 kHz #VBW 150 kHz Sweep 20 ms (601 pts)

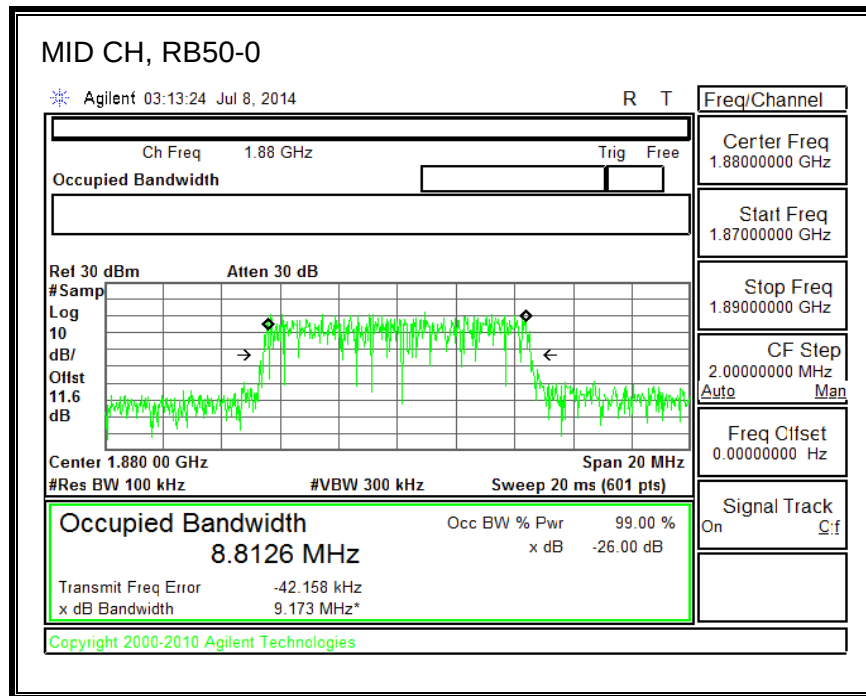
Occupied Bandwidth		Occ BW % Pwr	99.00 %
4.4894 MHz		x dB	-26.00 dB
Transmit Freq Error		-15.558 kHz	
x dB Bandwidth		4.586 MHz*	

Signal Track

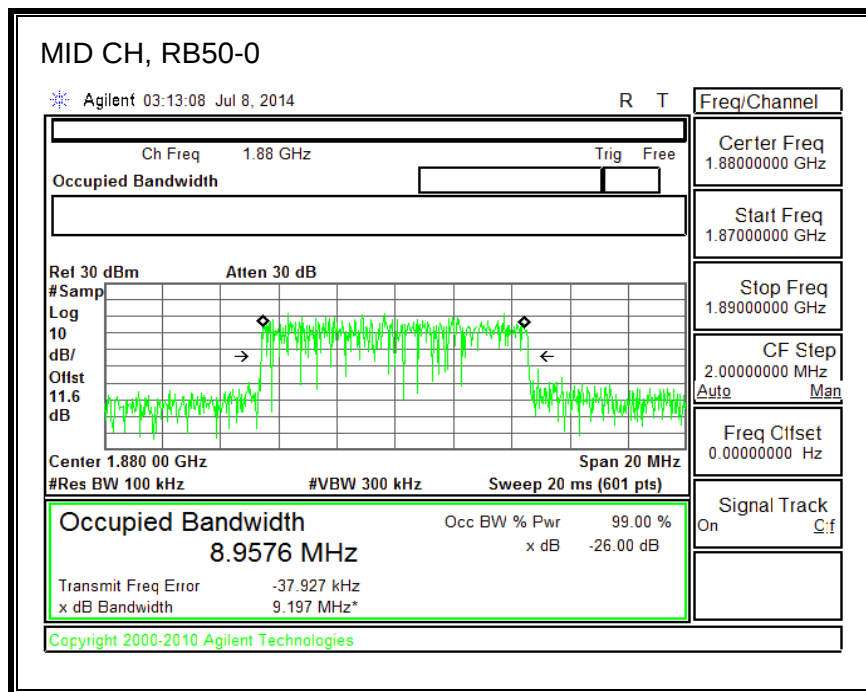
On Cf

Copyright 2000-2010 Agilent Technologies

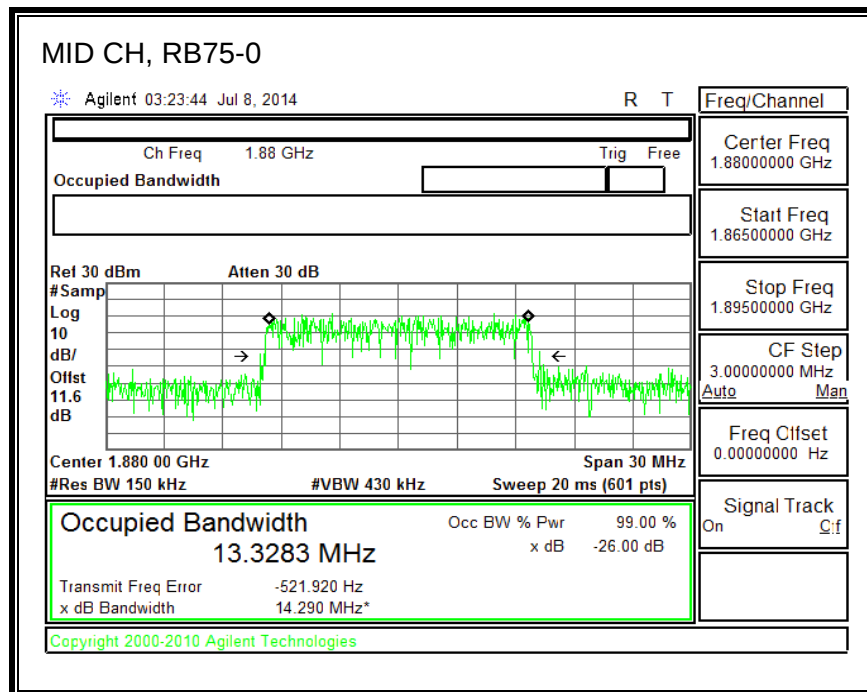
QPSK, (10.0 MHz BAND WIDTH)



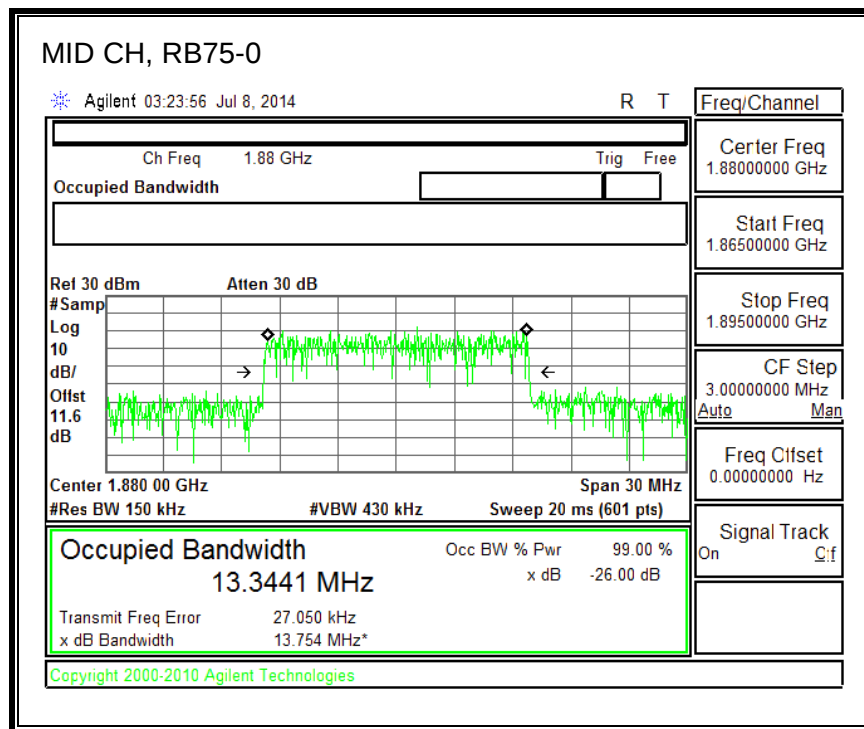
16QAM, (10.0 MHz BAND WIDTH)



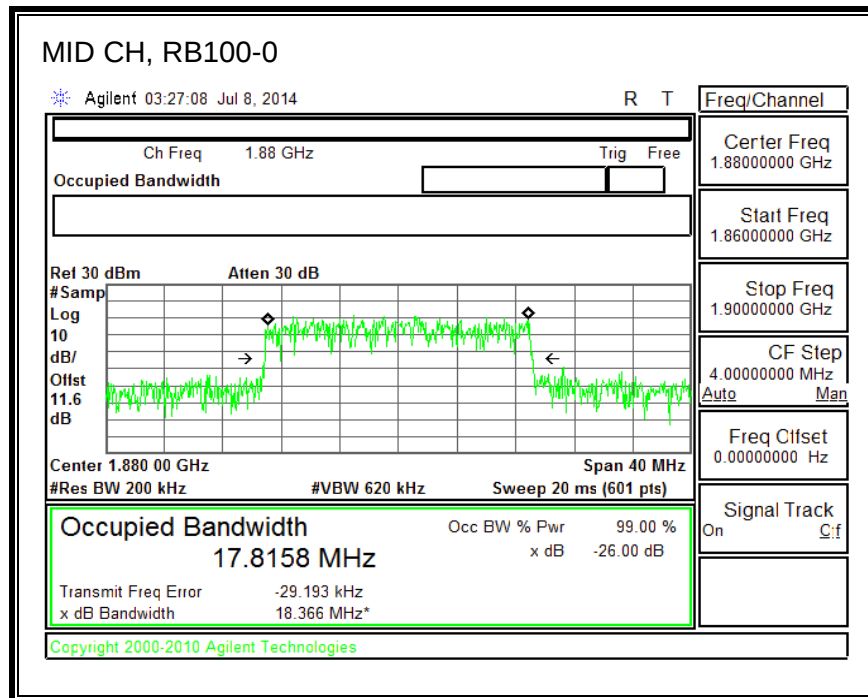
QPSK, (15.0 MHz BAND WIDTH)



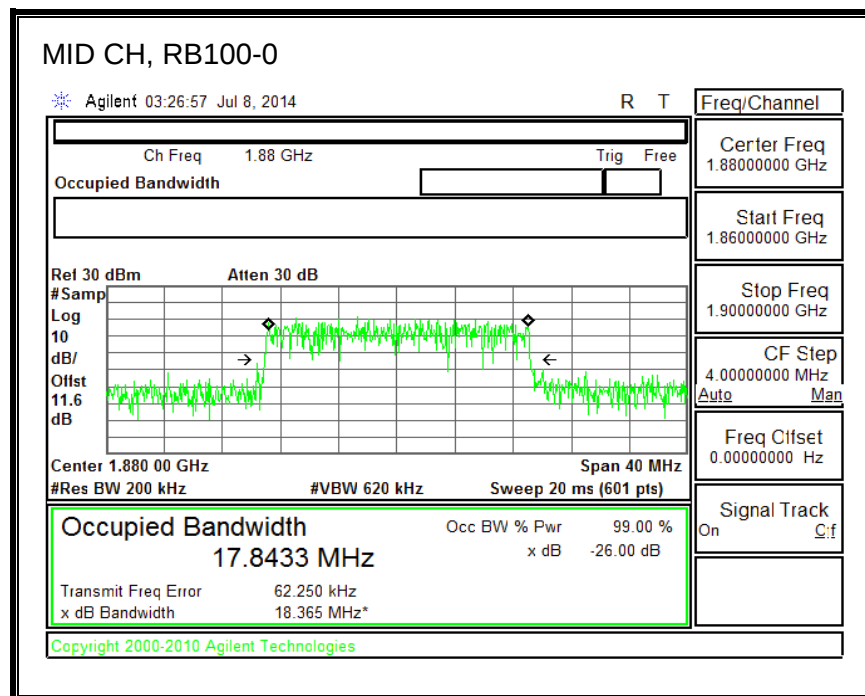
16QAM, (15.0 MHz BAND WIDTH)



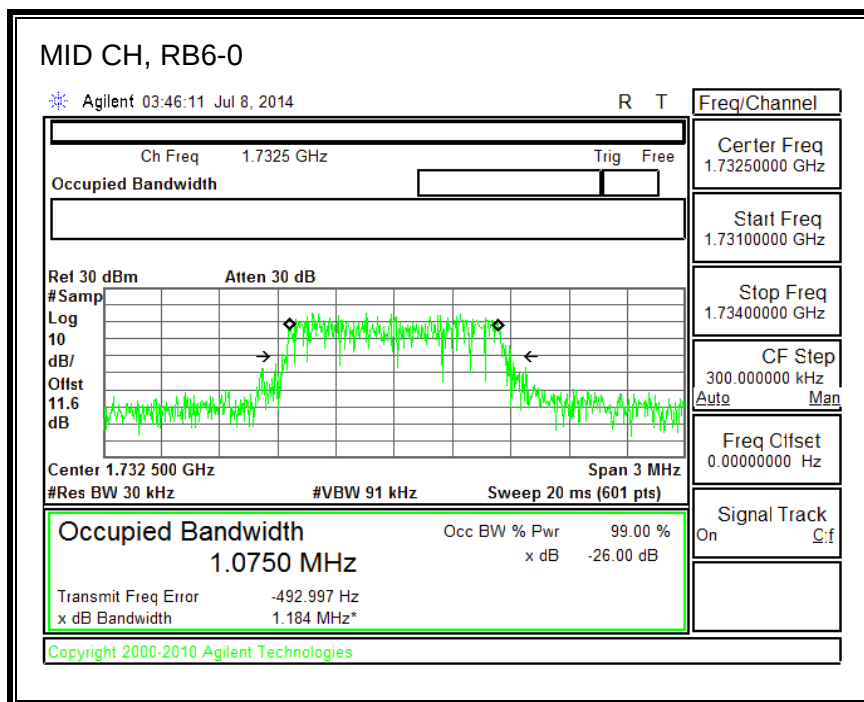
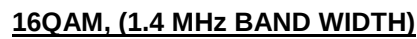
QPSK, (20.0 MHz BAND WIDTH)



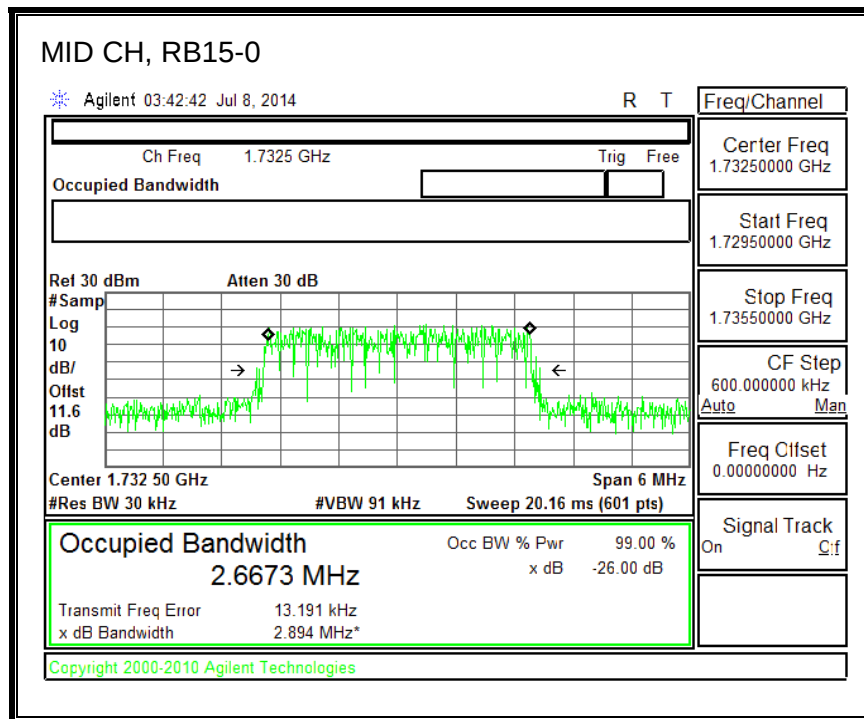
16QAM, (20.0 MHz BAND WIDTH)



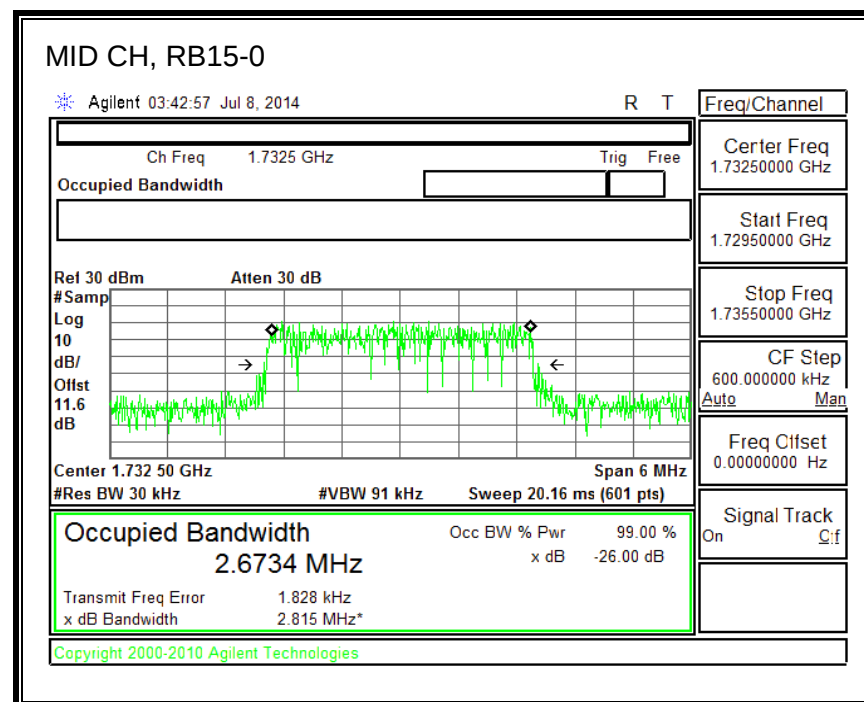
QPSK, (1.4 MHz BAND WIDTH)



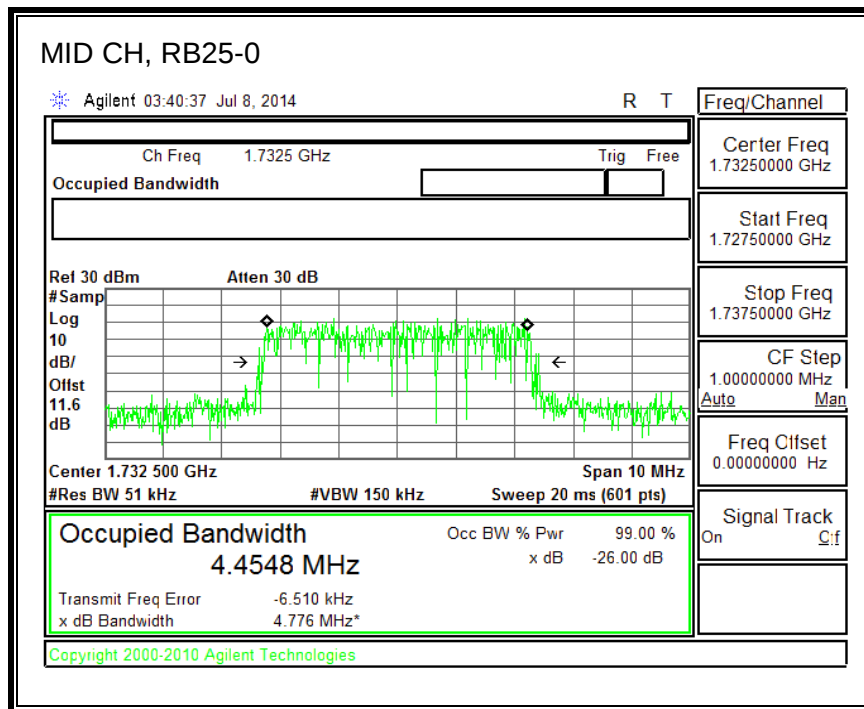
QPSK, (3.0 MHz BAND WIDTH)



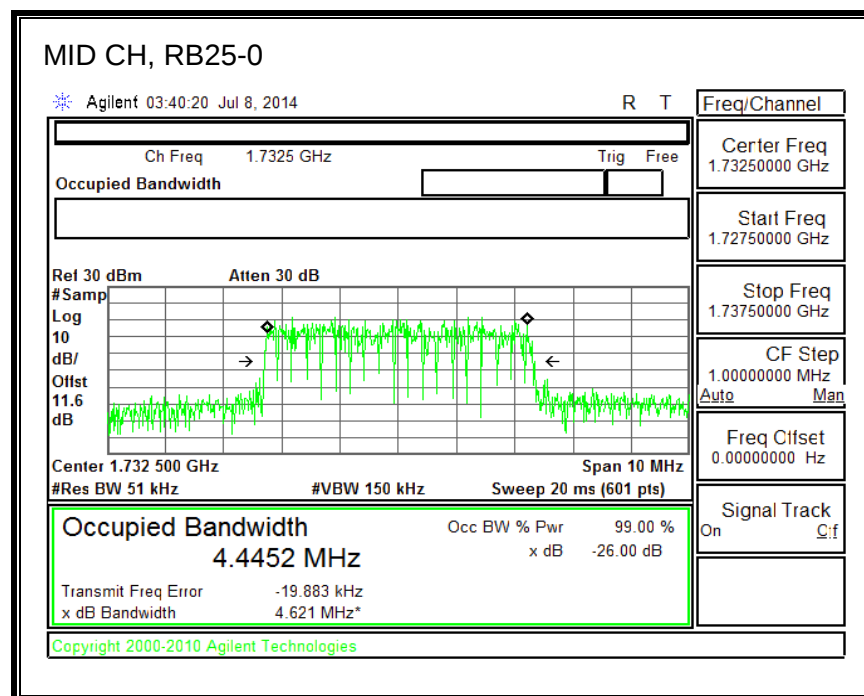
16QAM, (3.0 MHz BAND WIDTH)



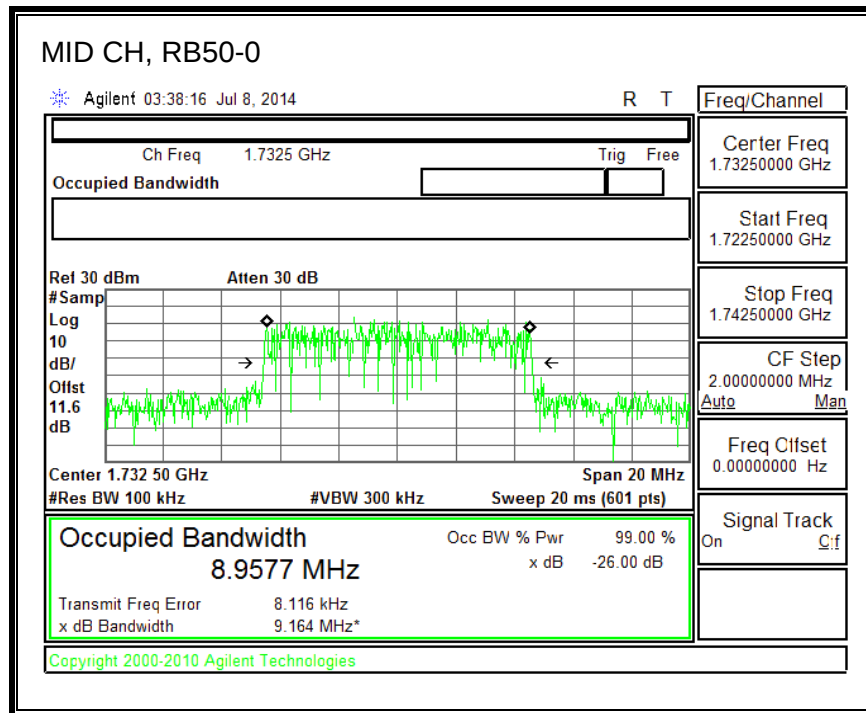
QPSK, (5.0 MHz BAND WIDTH)



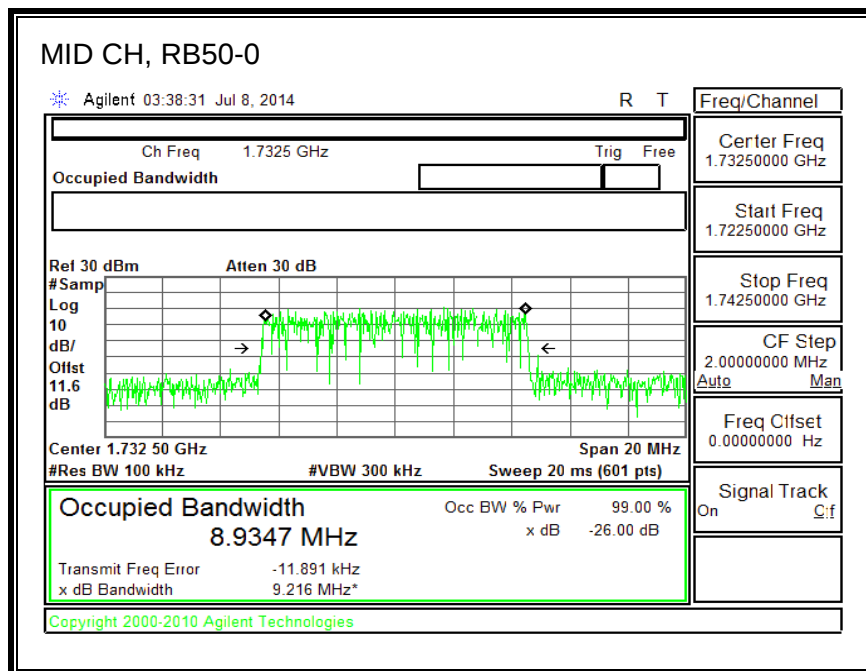
16QAM, (5.0 MHz BAND WIDTH)



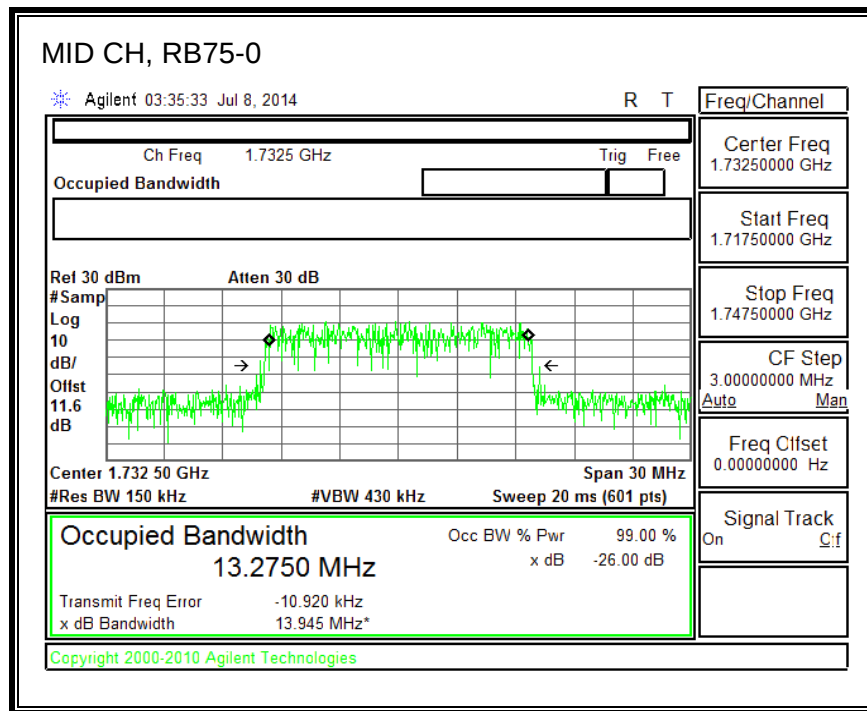
QPSK, (10.0 MHz BAND WIDTH)



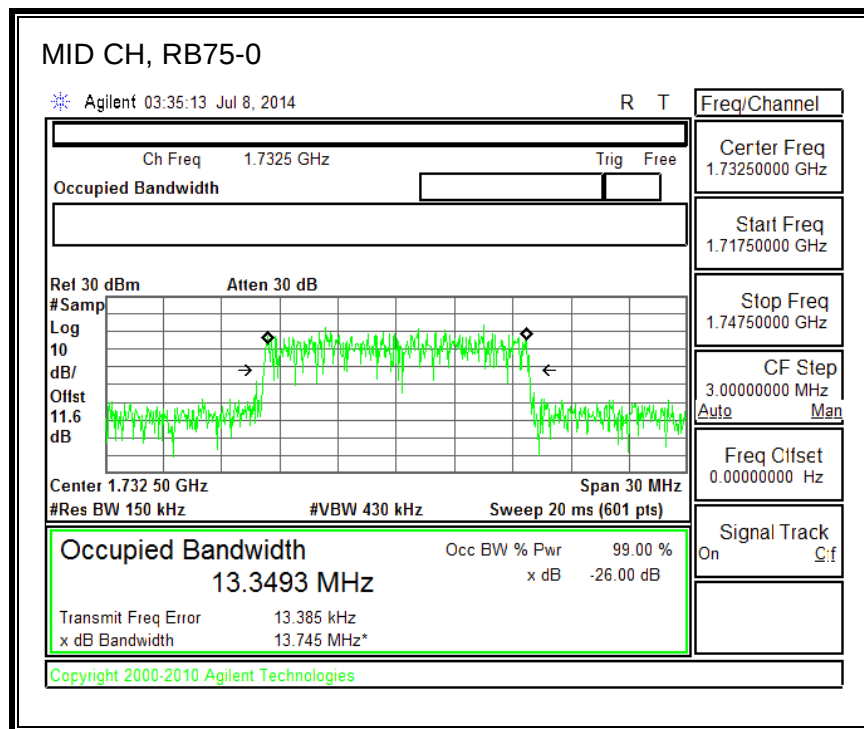
16QAM, (10.0 MHz BAND WIDTH)



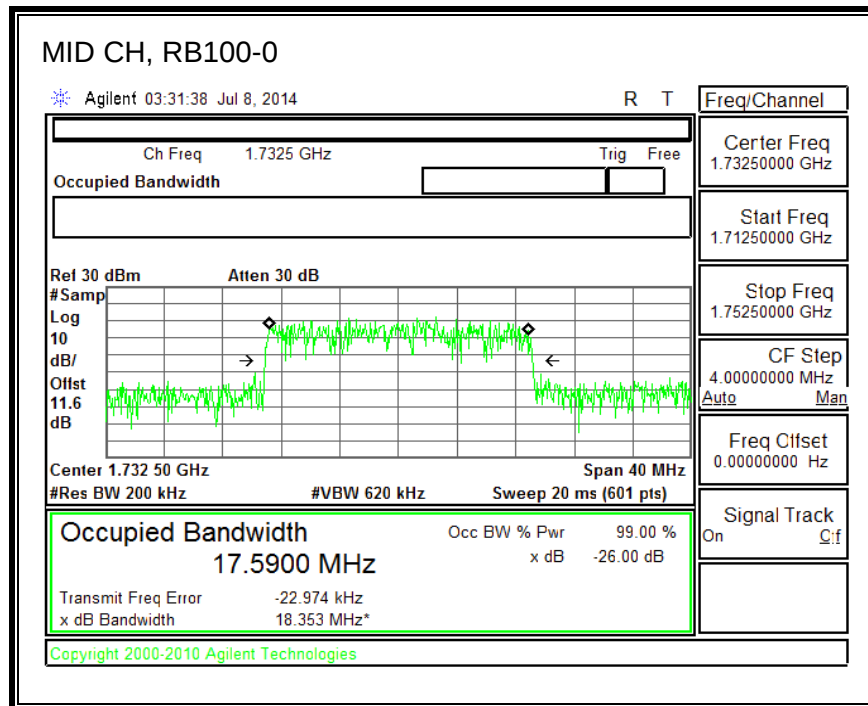
QPSK, (15.0 MHz BAND WIDTH)



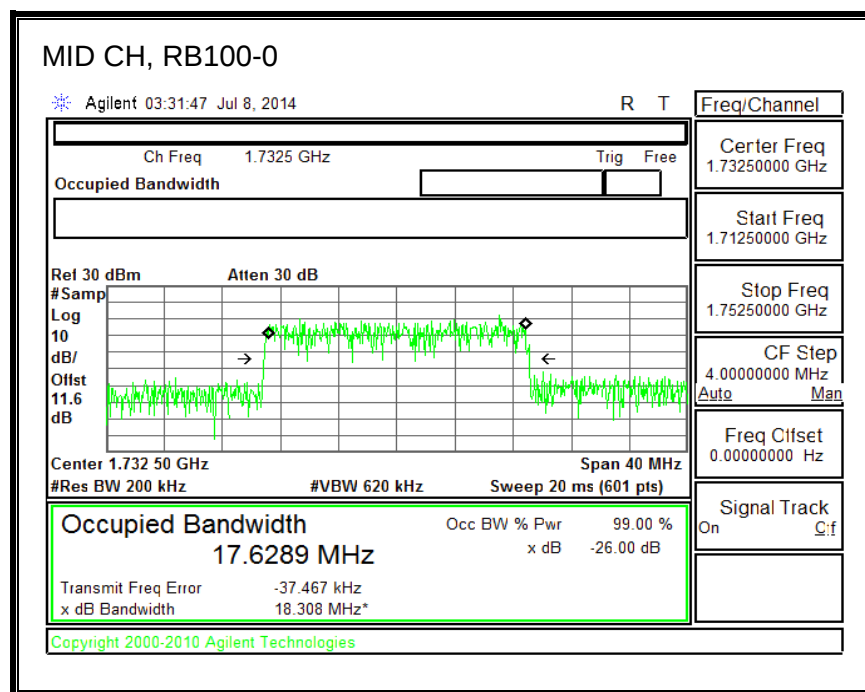
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

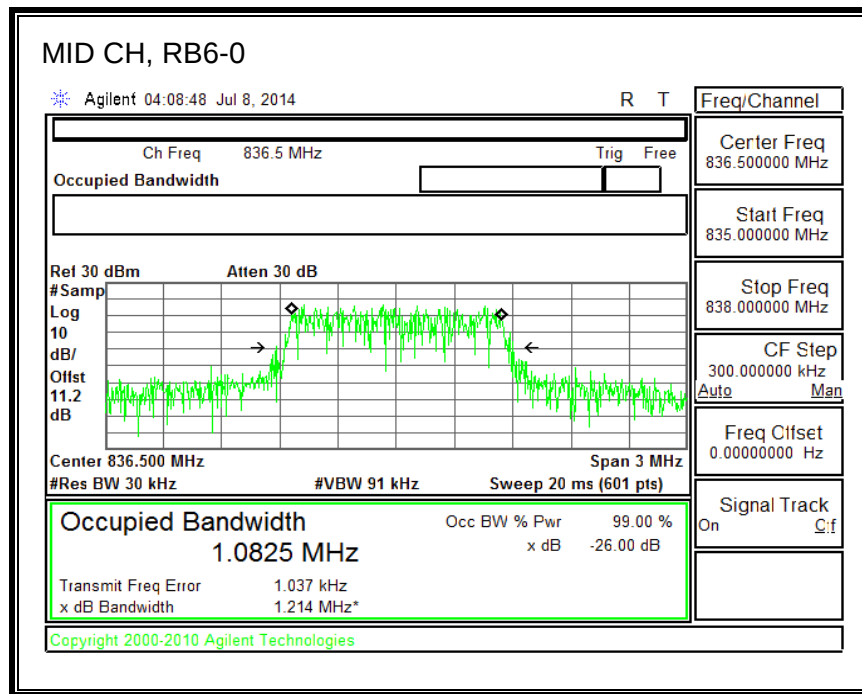


16QAM, (20.0 MHz BAND WIDTH)

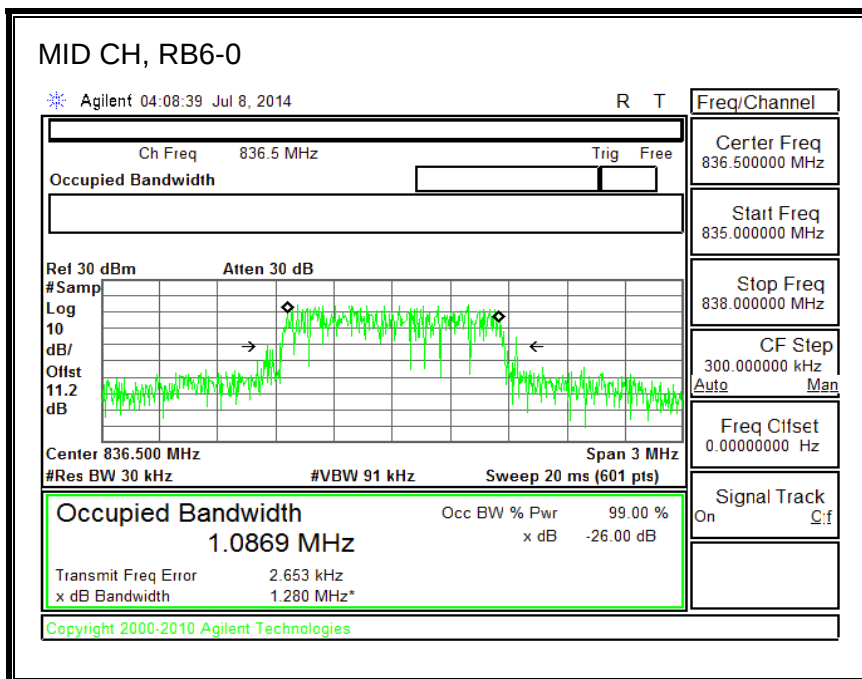


8.1.3. LTE BAND 5

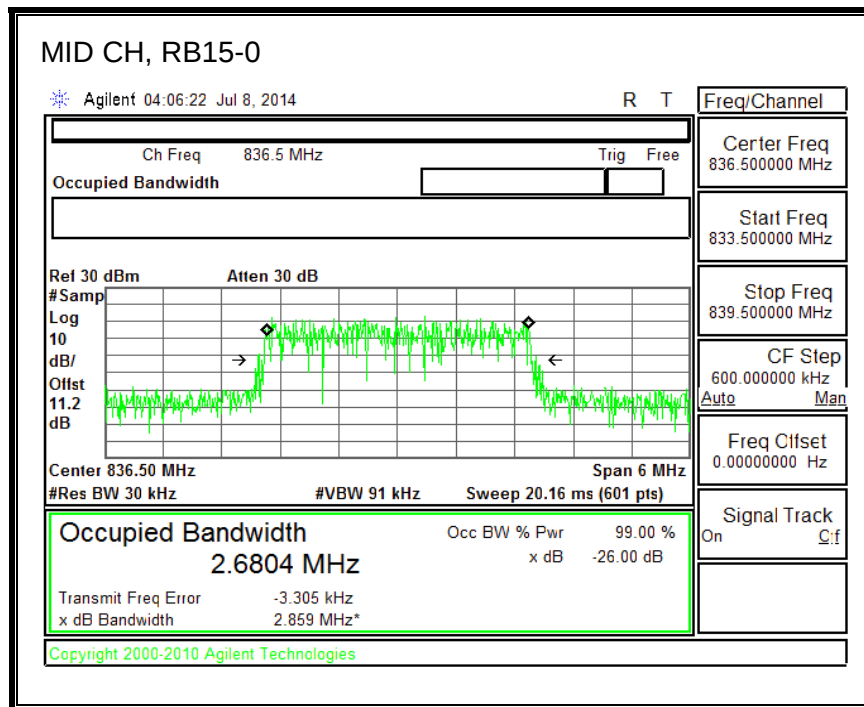
QPSK, (1.4 MHz BAND WIDTH)



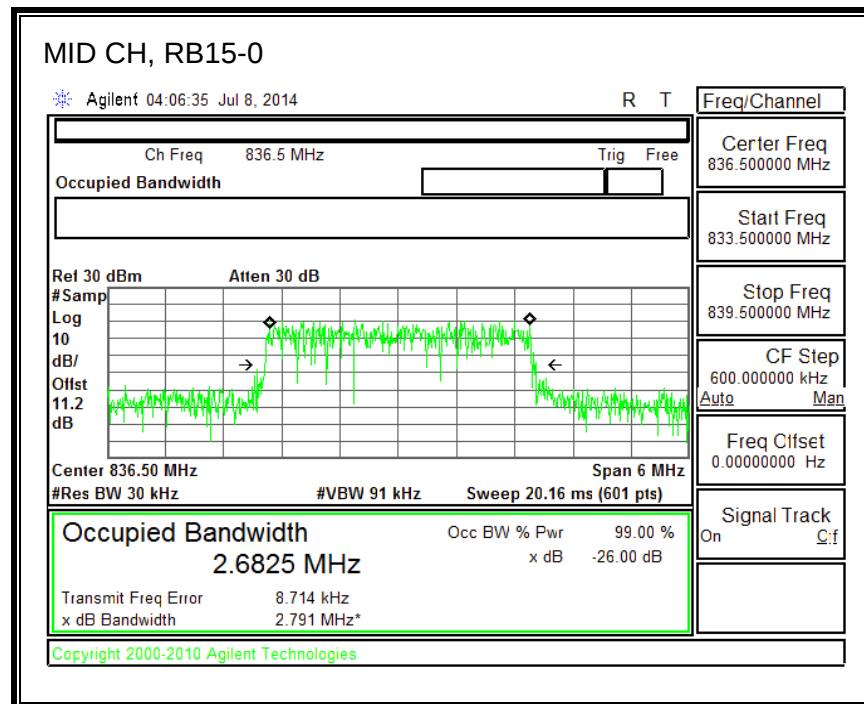
16QAM, (1.4 MHz BAND WIDTH)



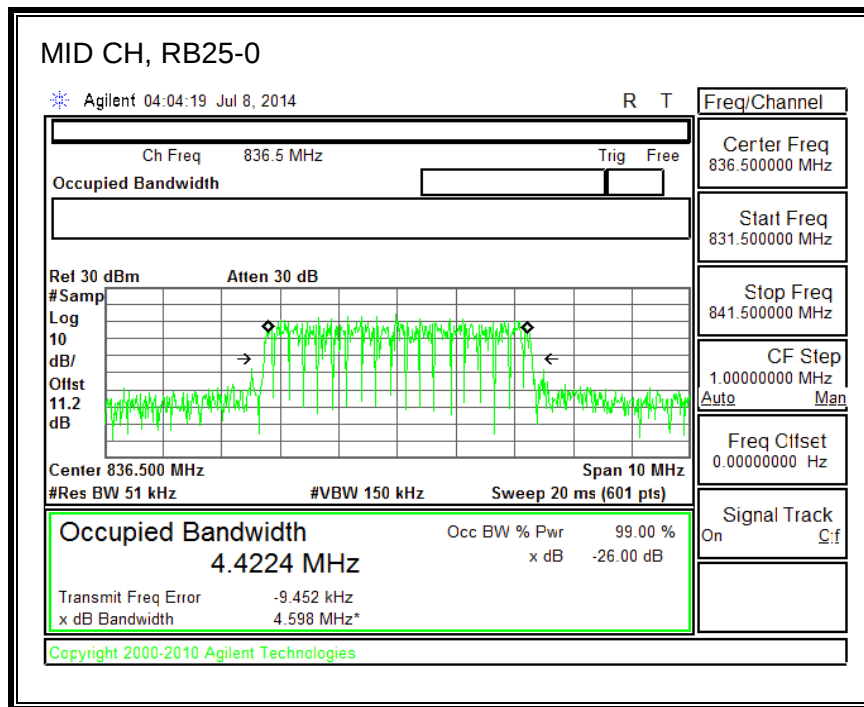
QPSK, (3.0 MHz BAND WIDTH)



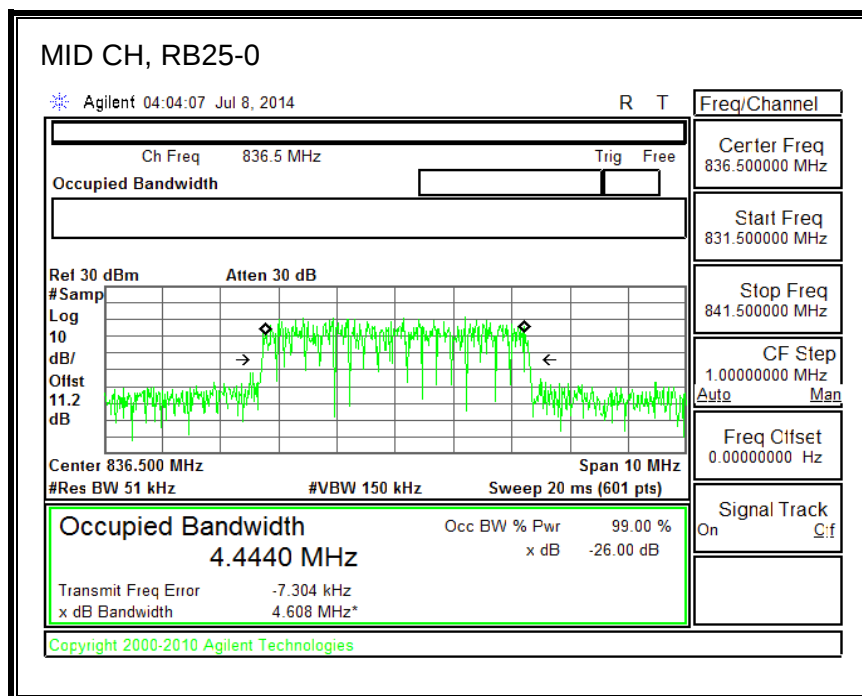
16QAM, (3.0 MHz BAND WIDTH)



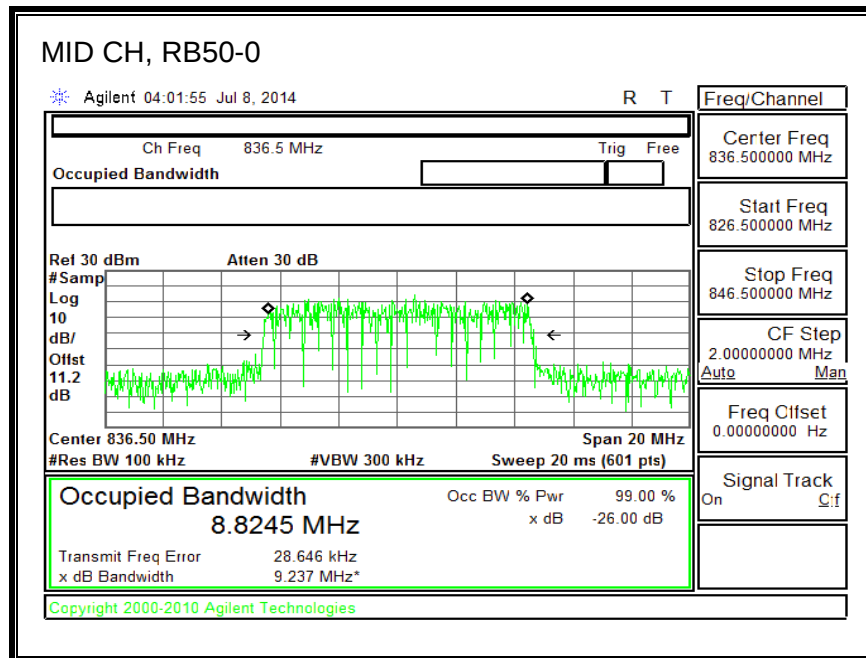
QPSK, (5.0 MHz BAND WIDTH)



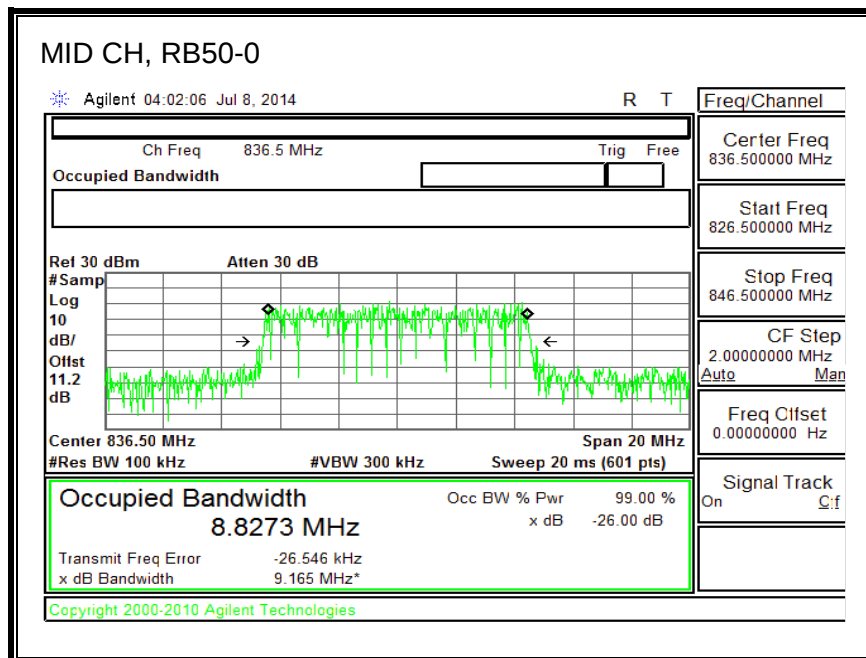
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

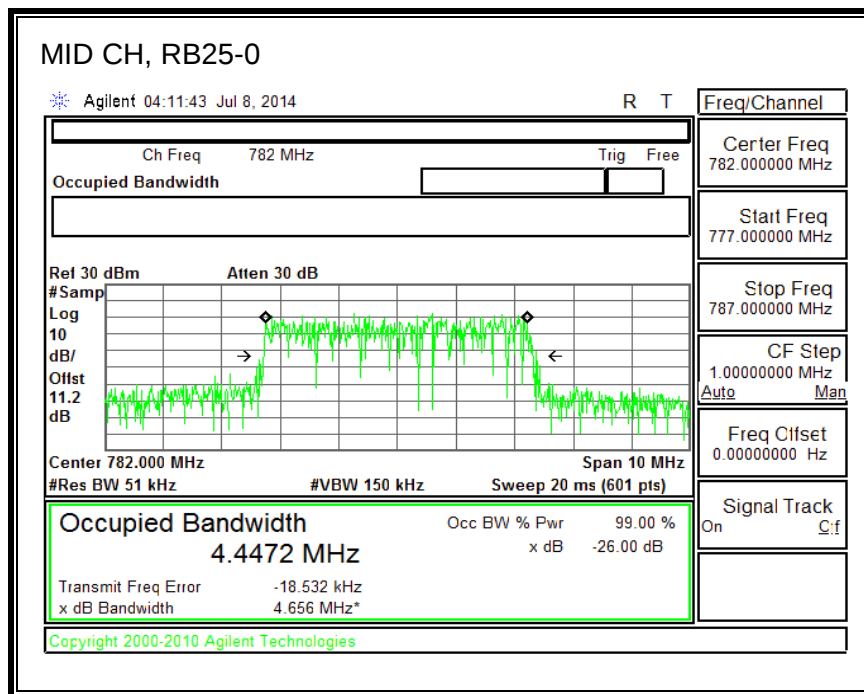


16QAM, (10.0 MHz BAND WIDTH)

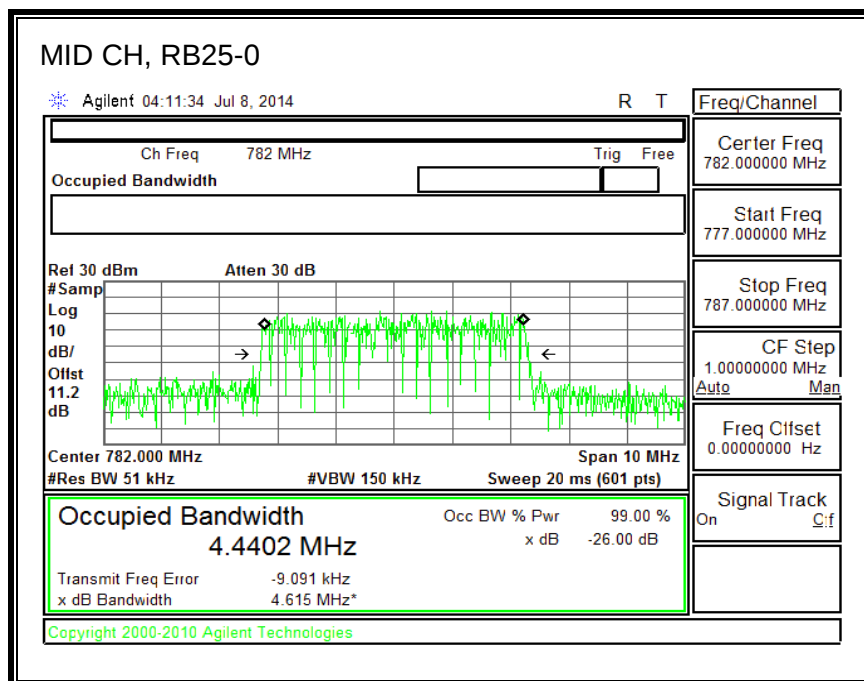


8.1.5. LTE BAND 13

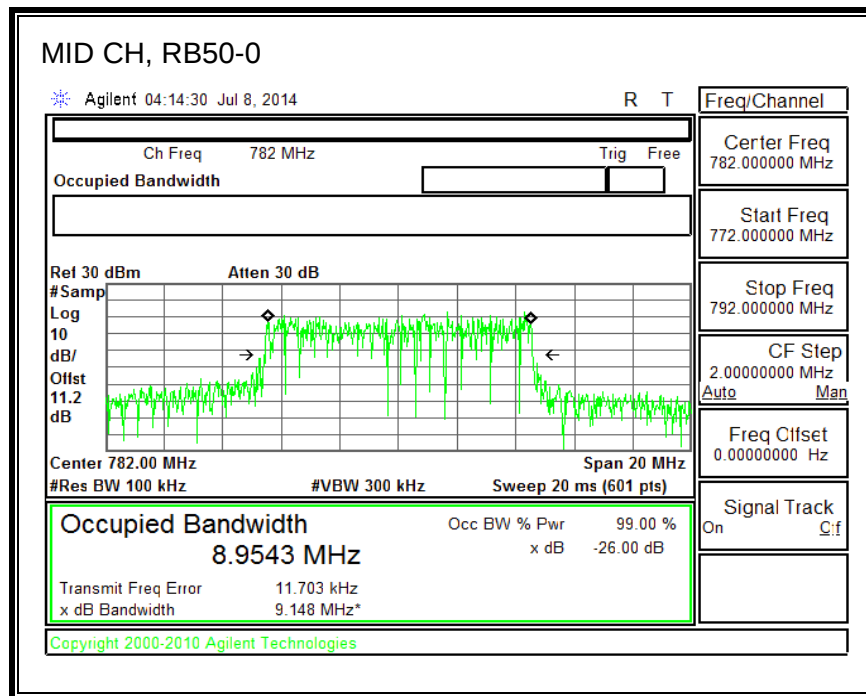
QPSK, (5.0 MHz BAND WIDTH)



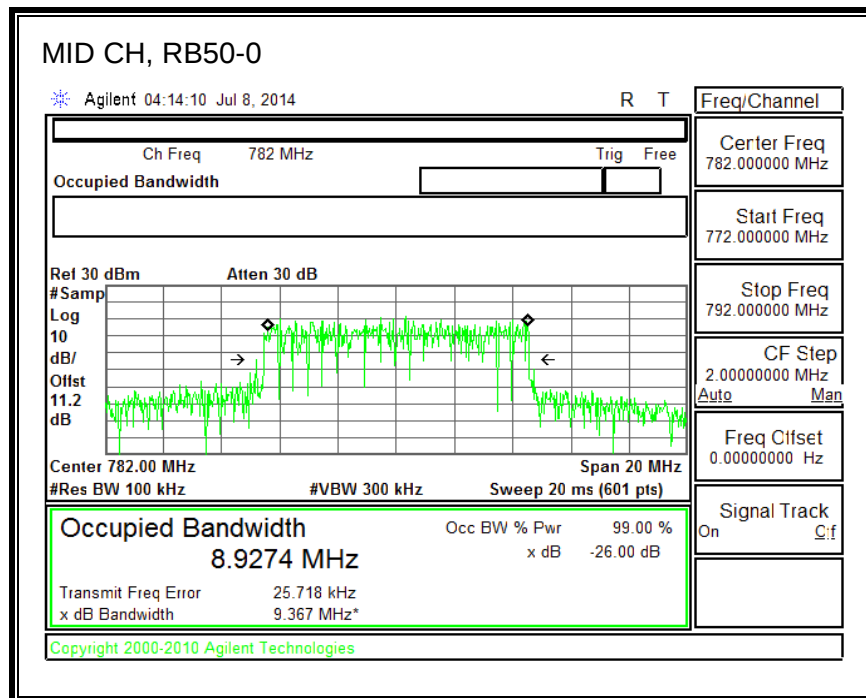
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

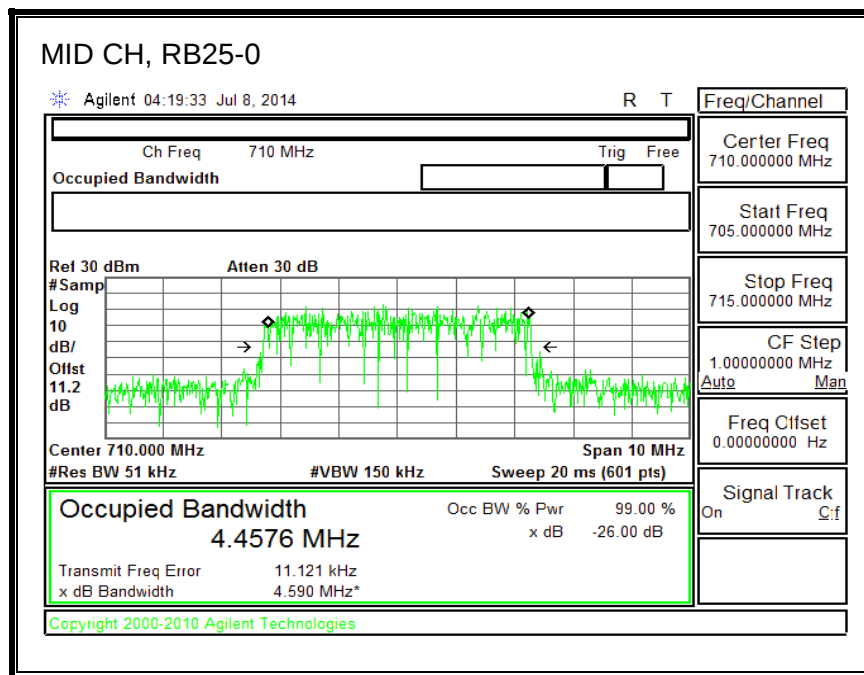


16QAM, (10.0 MHz BAND WIDTH)

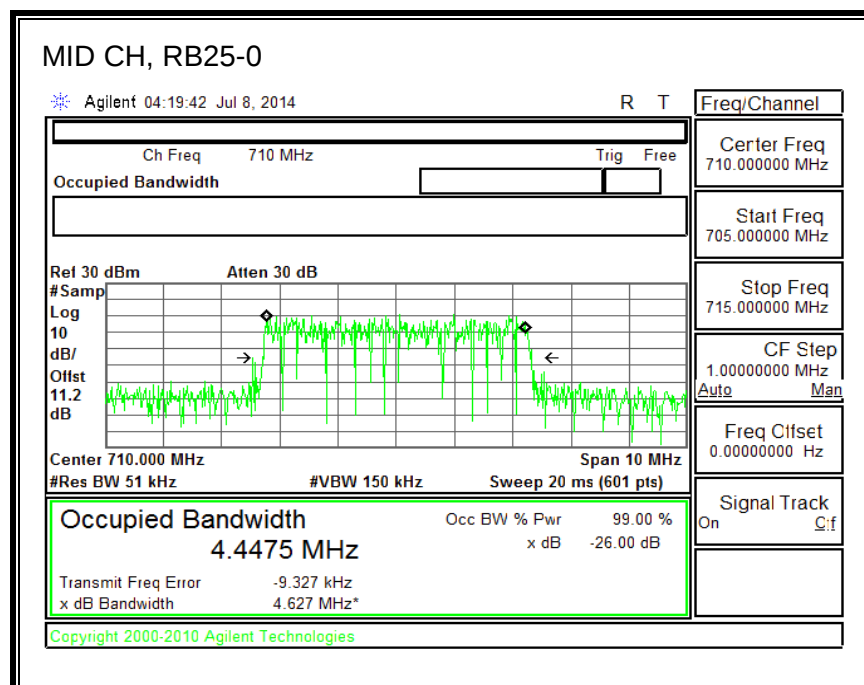


8.1.6. LTE BAND 17

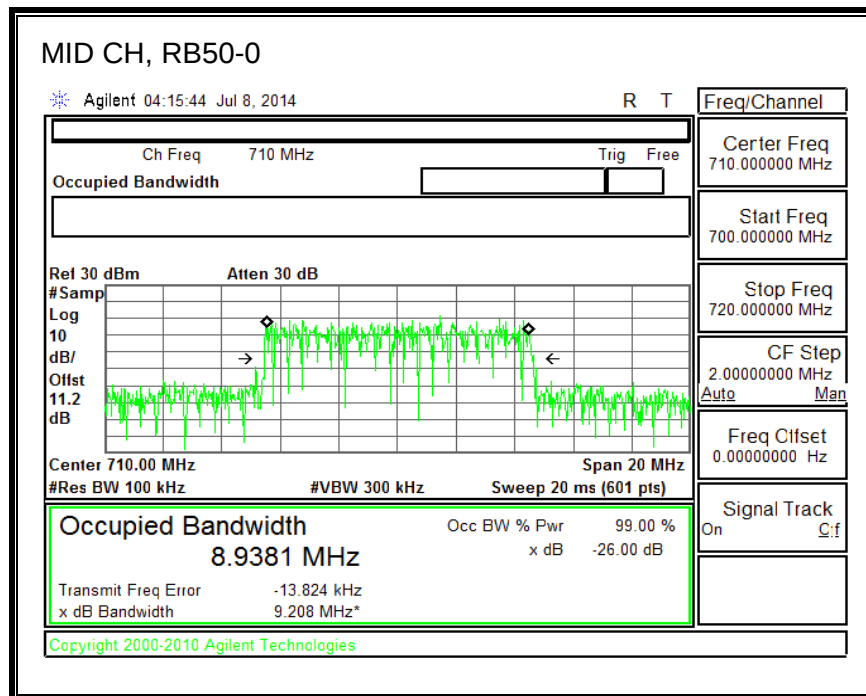
QPSK, (5.0 MHz BAND WIDTH)



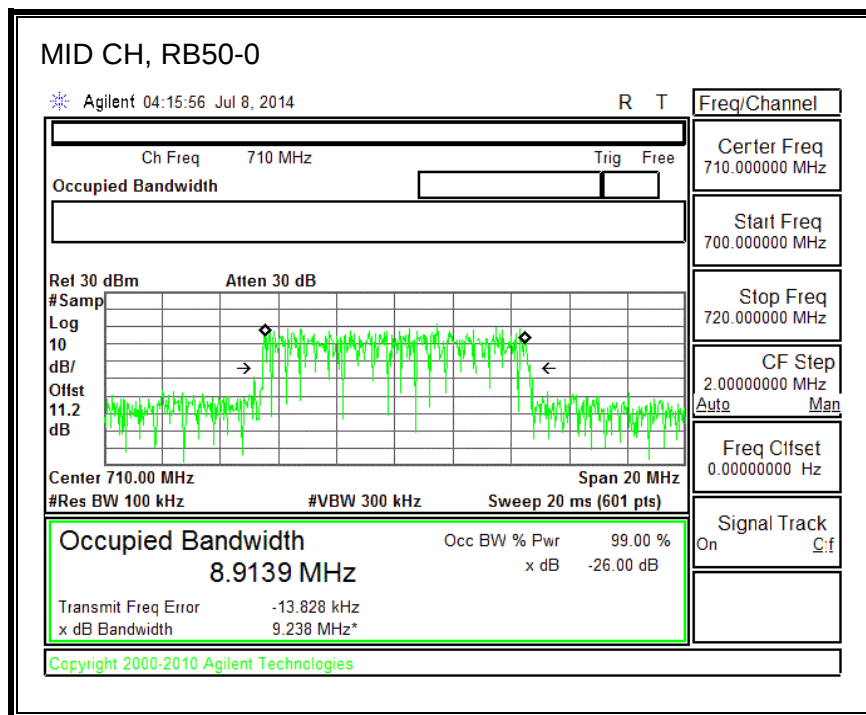
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

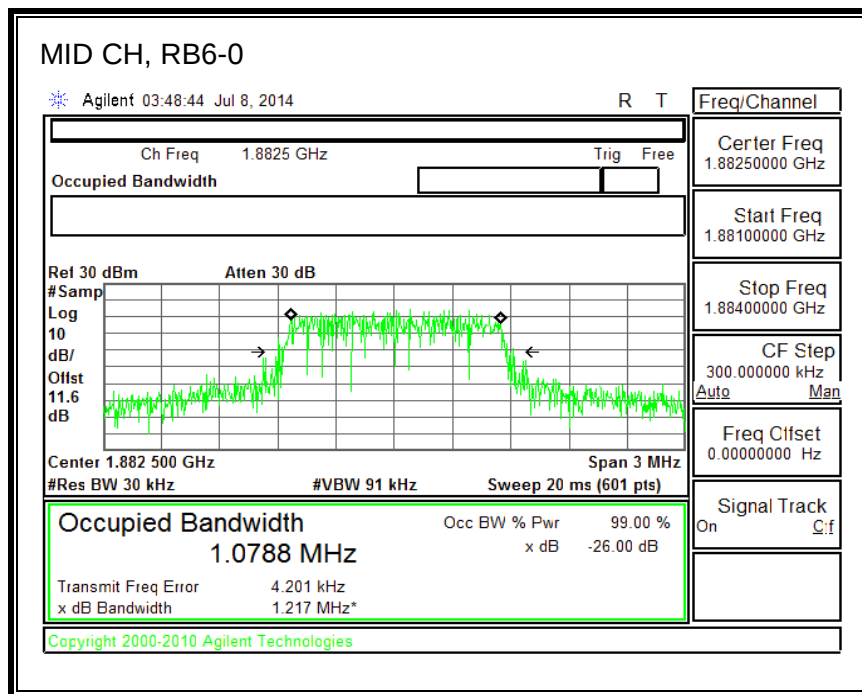


16QAM, (10.0 MHz BAND WIDTH)

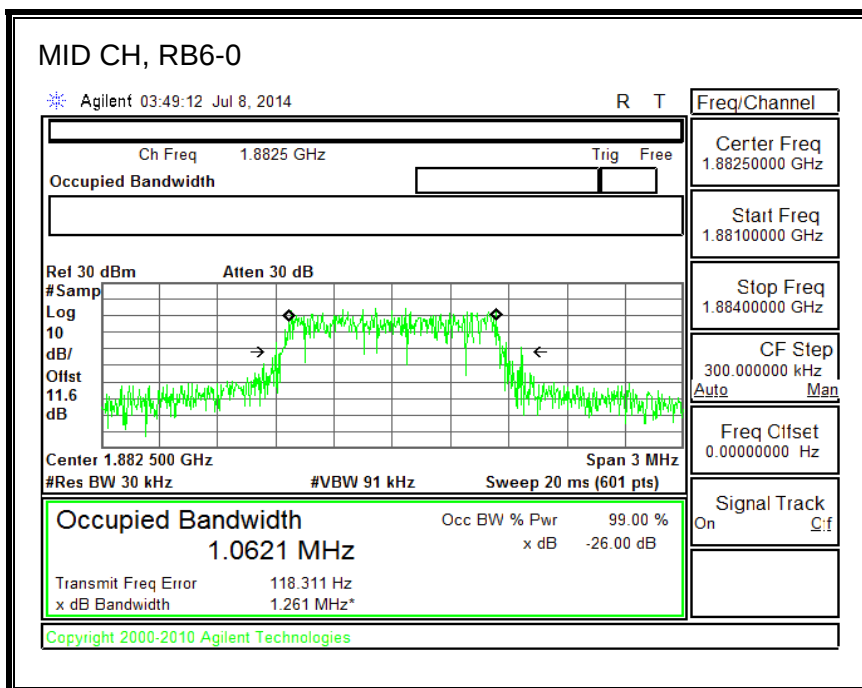


8.1.7. LTE BAND 25

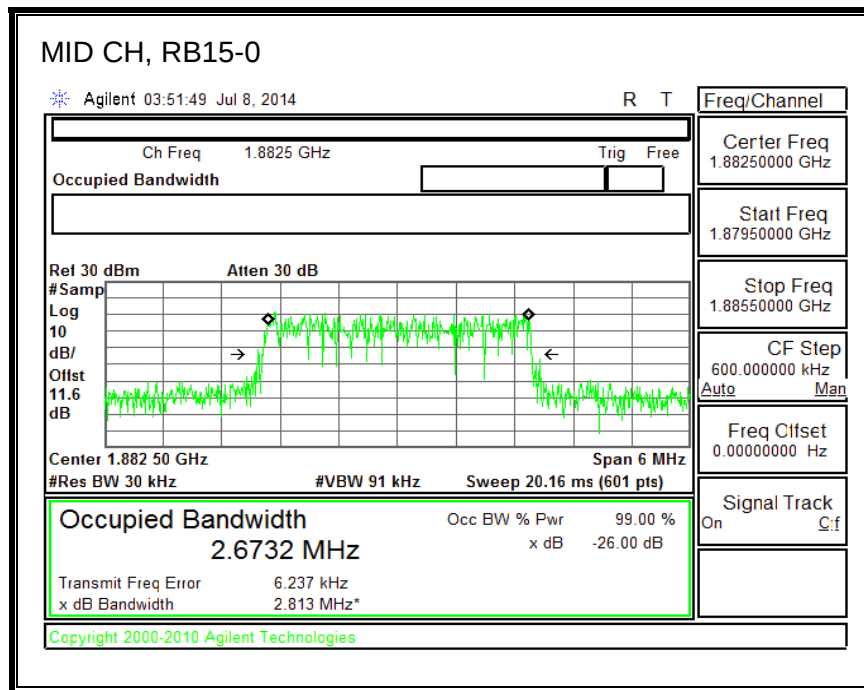
QPSK, (1.4 MHz BAND WIDTH)



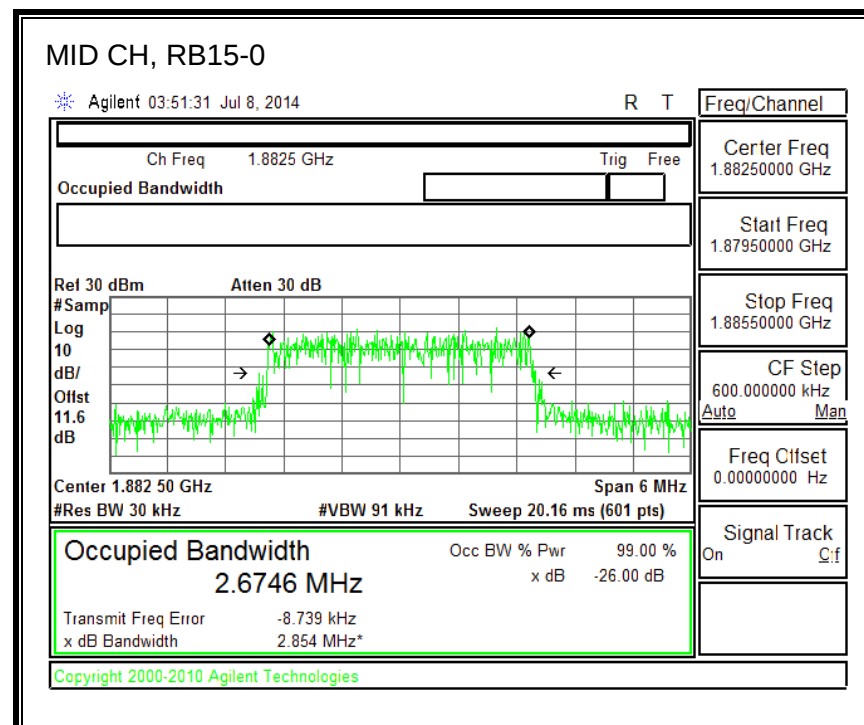
16QAM, (1.4 MHz BAND WIDTH)



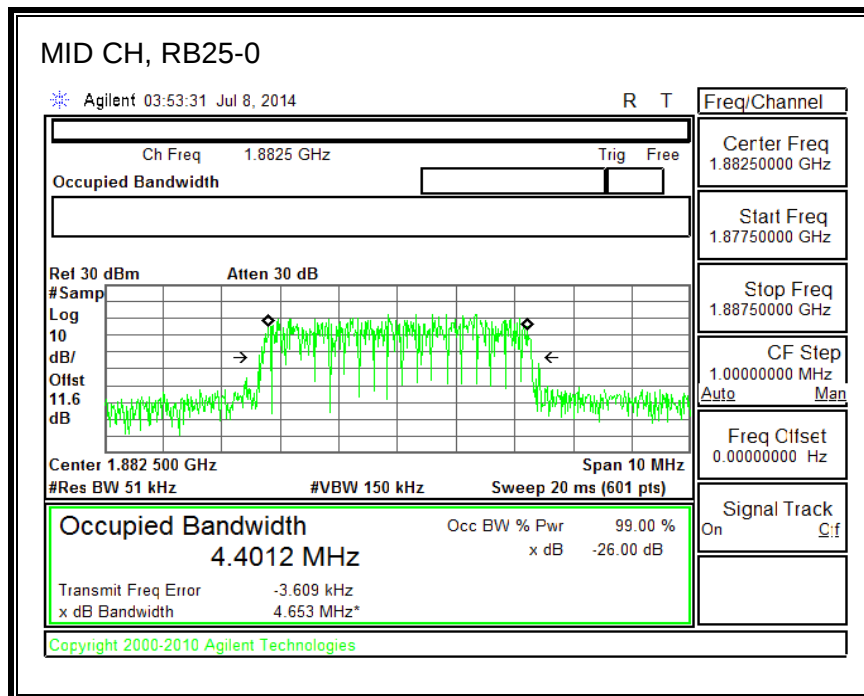
QPSK, (3.0 MHz BAND WIDTH)



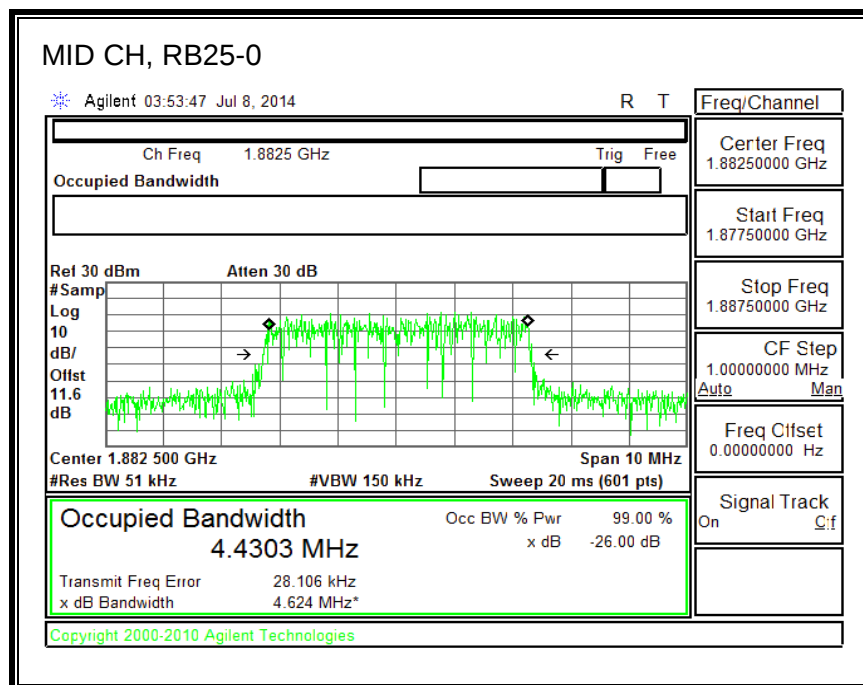
16QAM, (3.0 MHz BAND WIDTH)



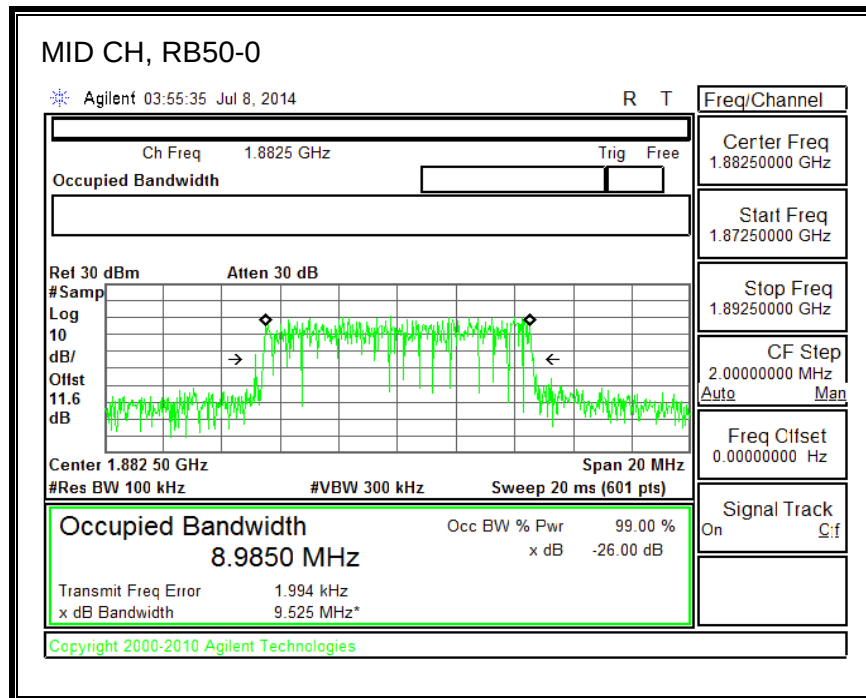
QPSK, (5.0 MHz BAND WIDTH)



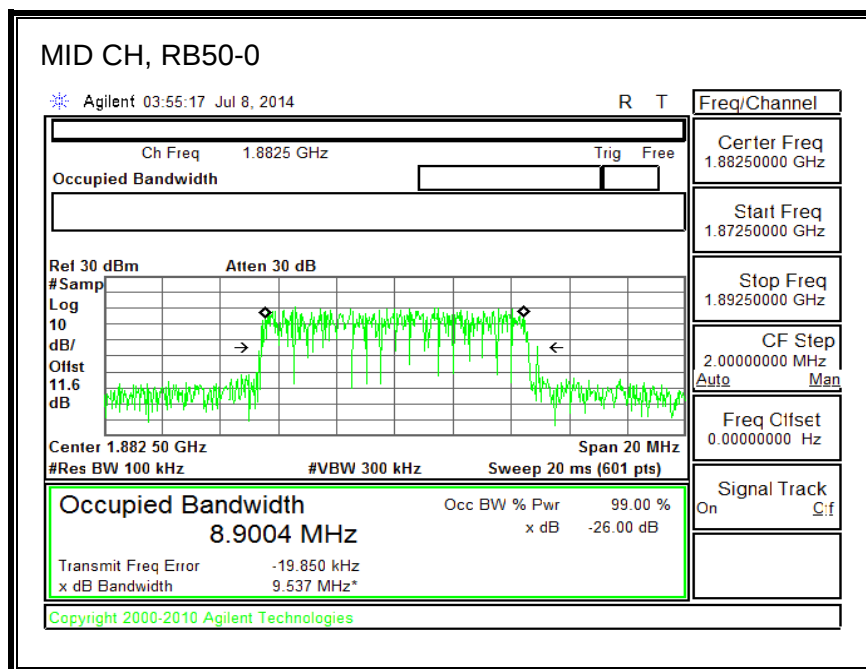
16QAM, (5.0 MHz BAND WIDTH)

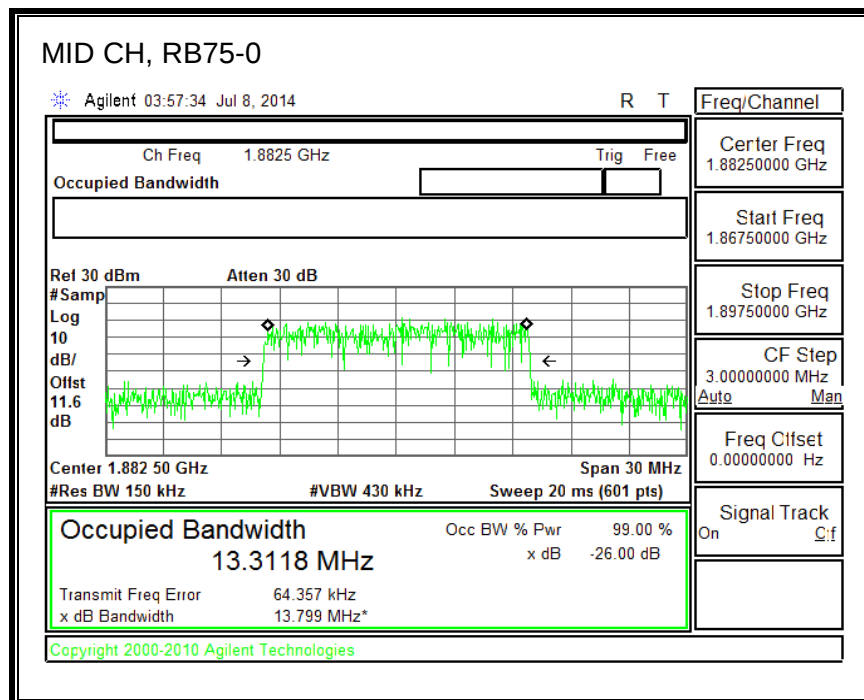
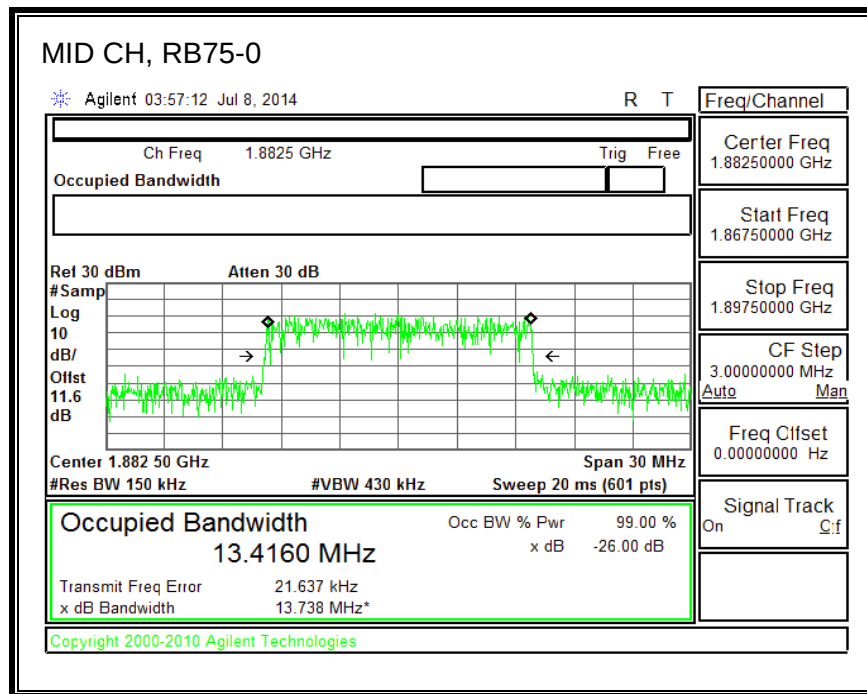


QPSK, (10.0 MHz BAND WIDTH)

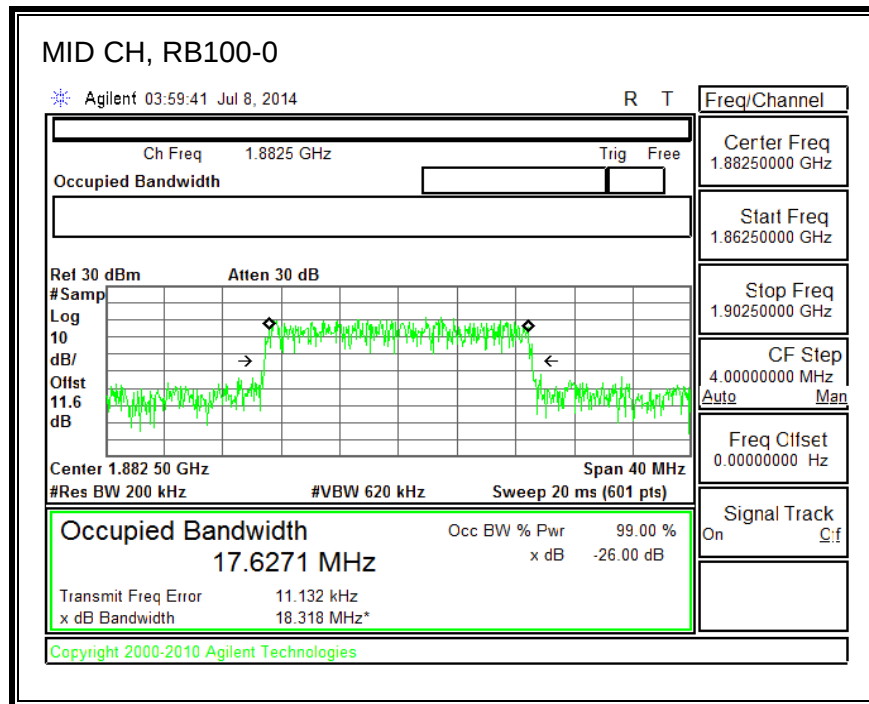


16QAM, (10.0 MHz BAND WIDTH)

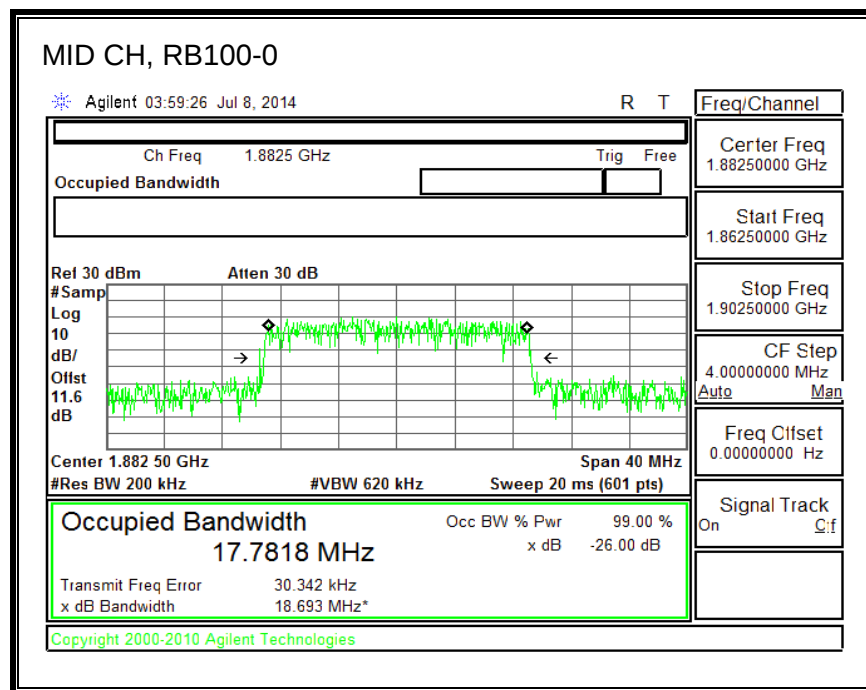




QPSK, (20.0 MHz BAND WIDTH)

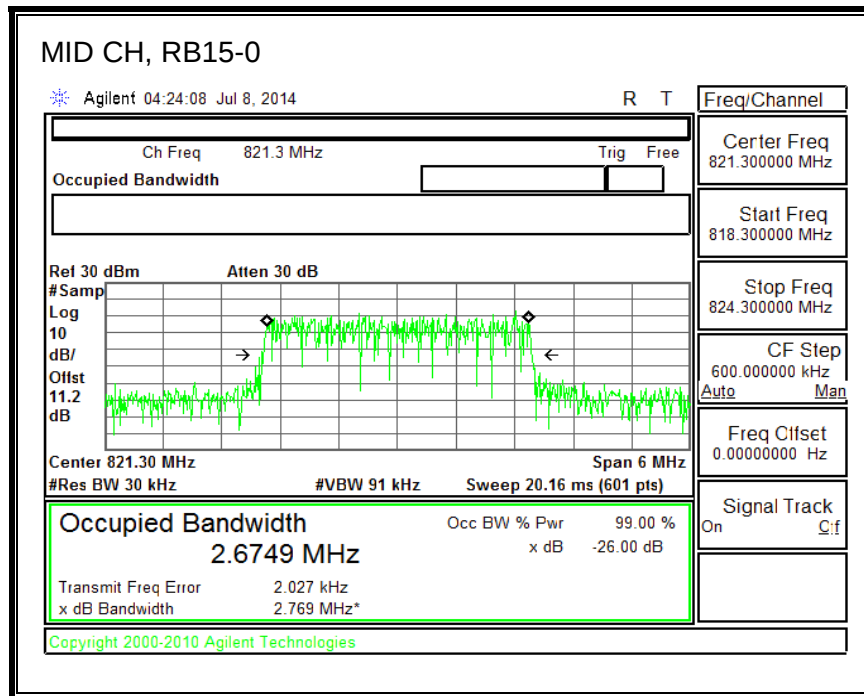


16QAM, (20.0 MHz BAND WIDTH)

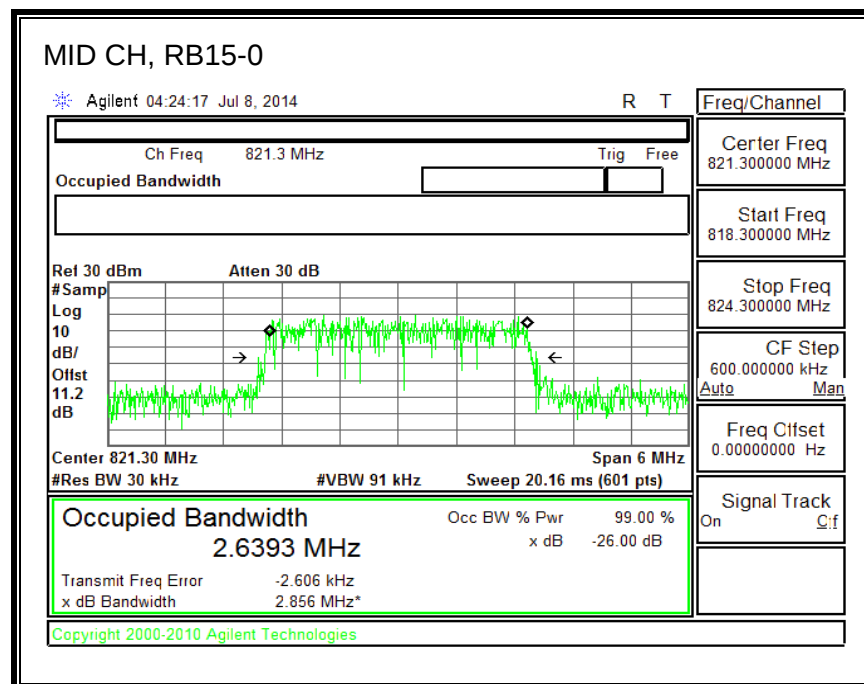


8.1.8. LTE BAND 26

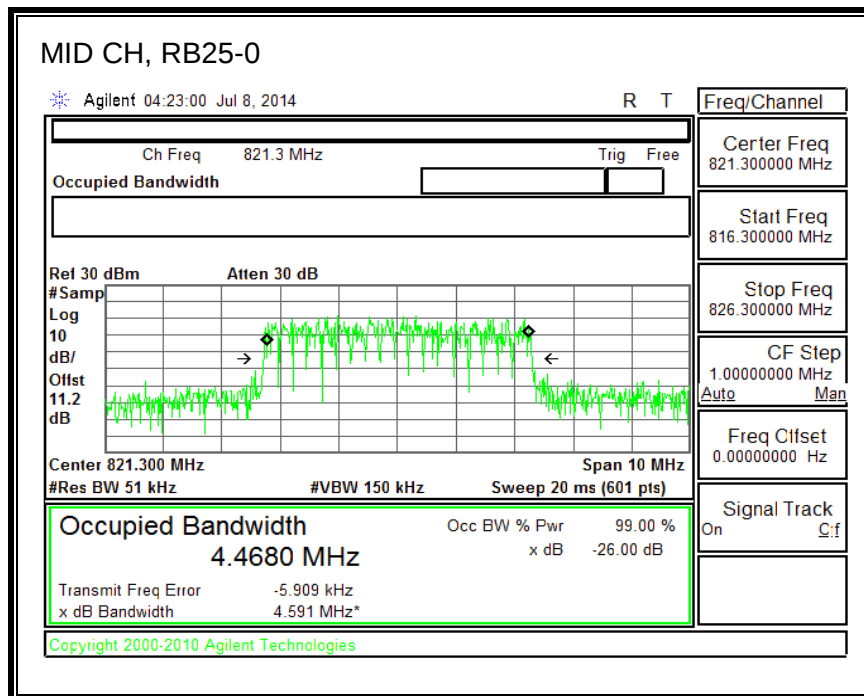
QPSK, (3.0 MHz BAND WIDTH)



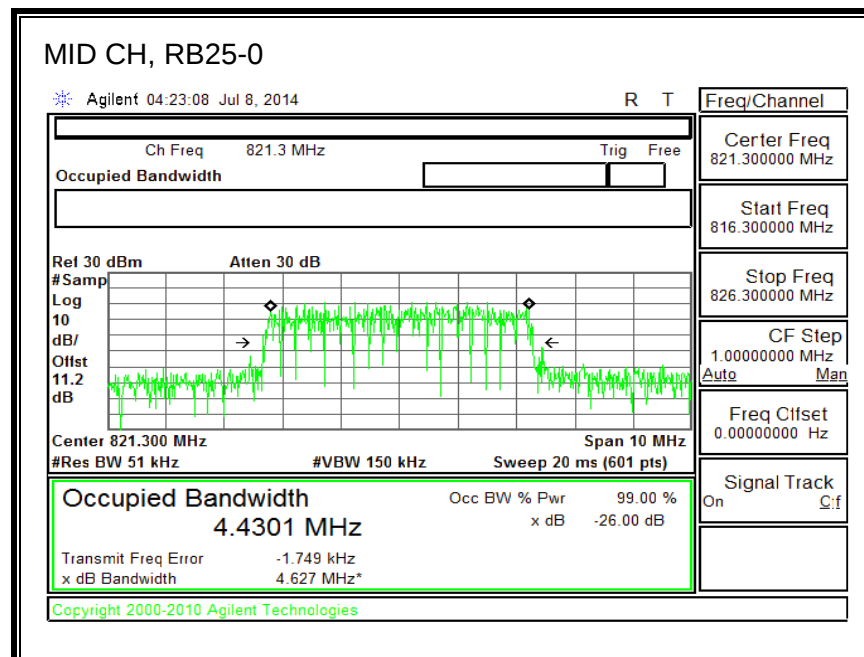
16QAM, (3.0 MHz BAND WIDTH)



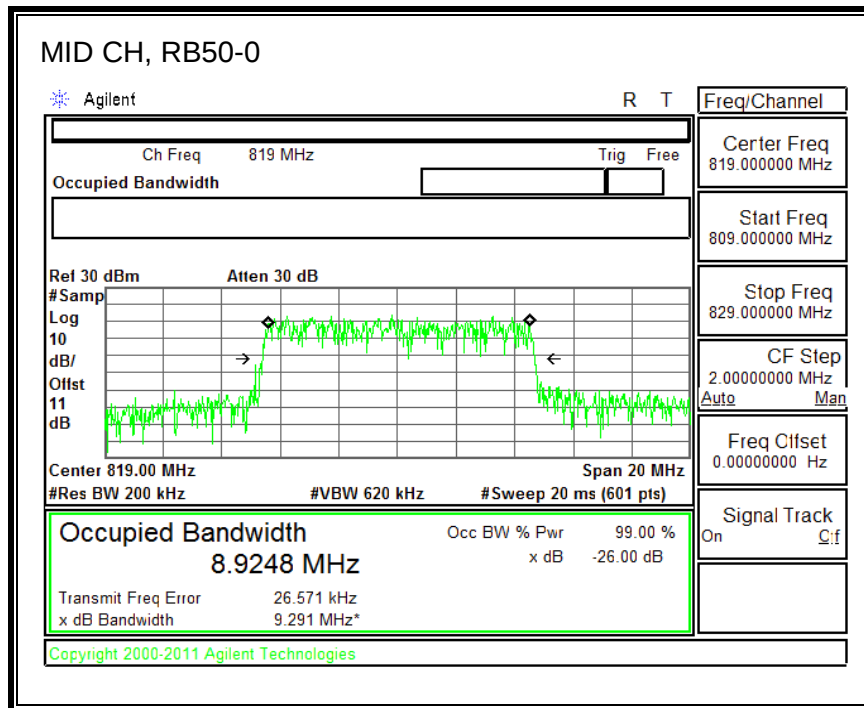
QPSK, (5.0 MHz BAND WIDTH)



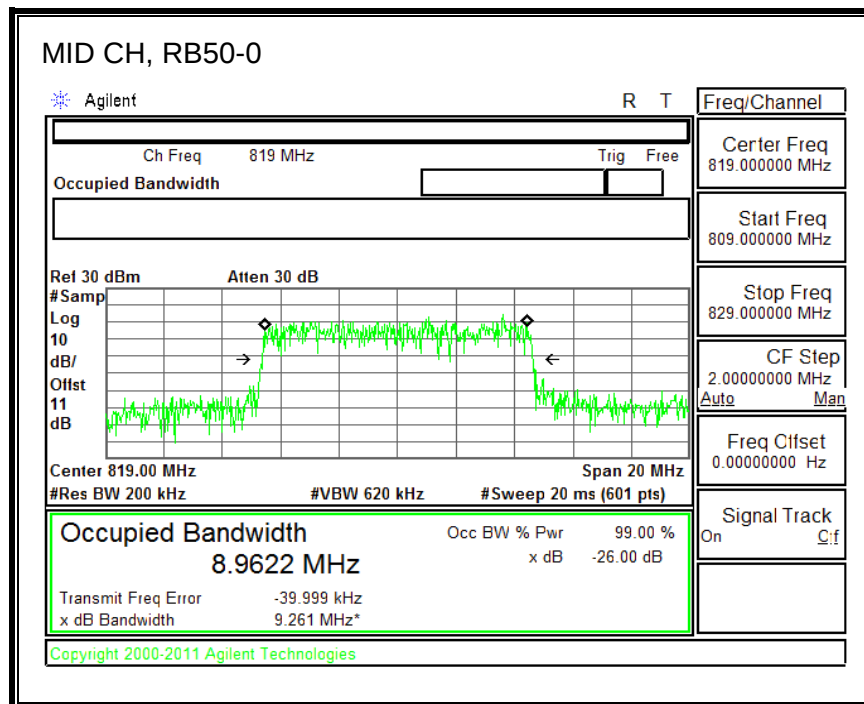
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

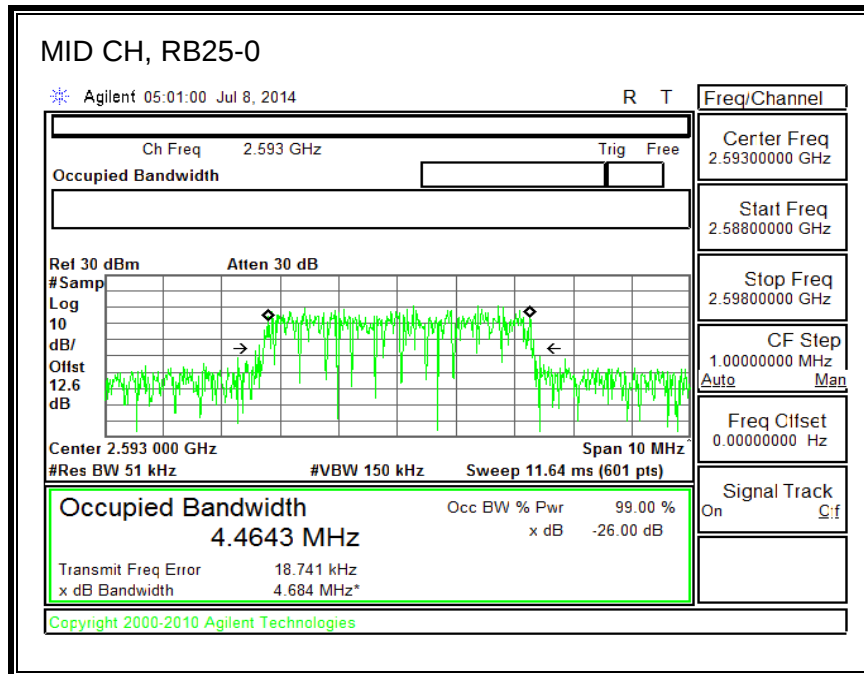


16QAM, (10.0 MHz BAND WIDTH)

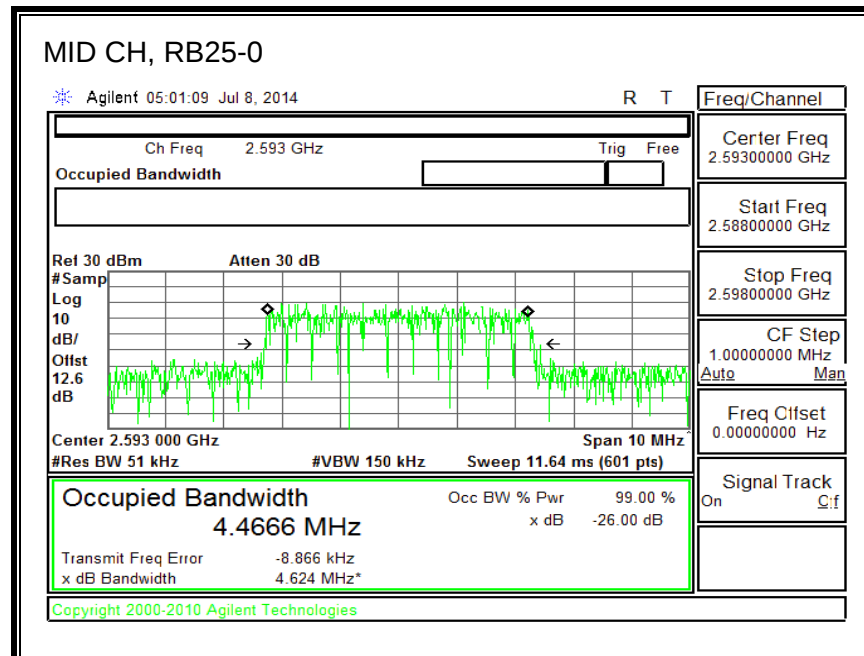


8.1.9. LTE BAND 41

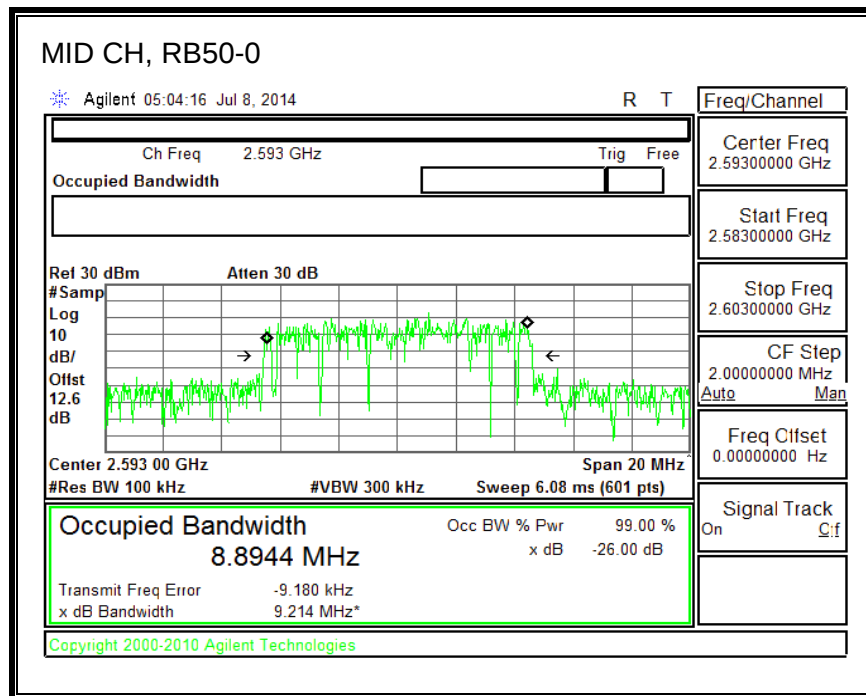
QPSK, (5.0 MHz BAND WIDTH)



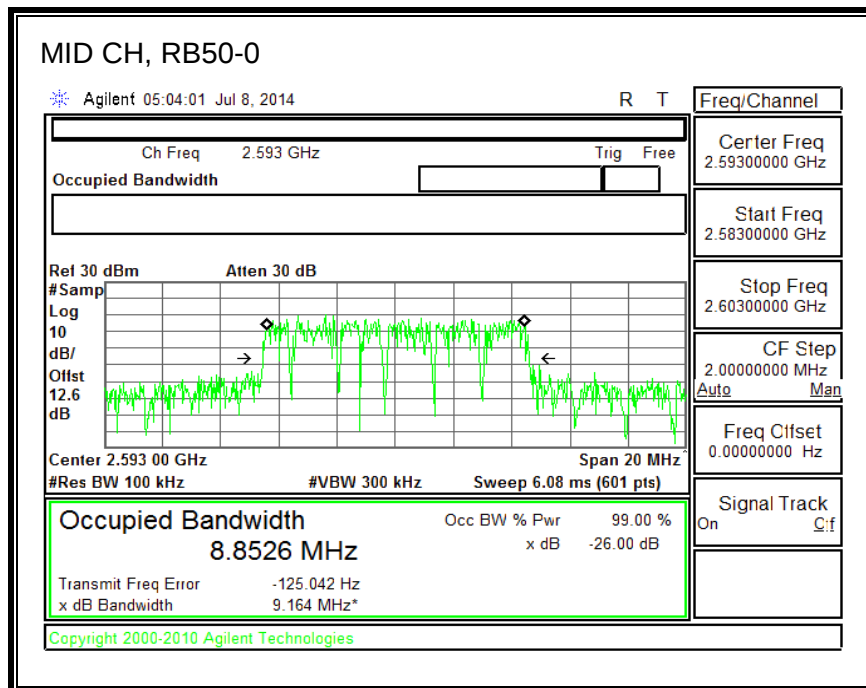
16QAM, (5.0 MHz BAND WIDTH)



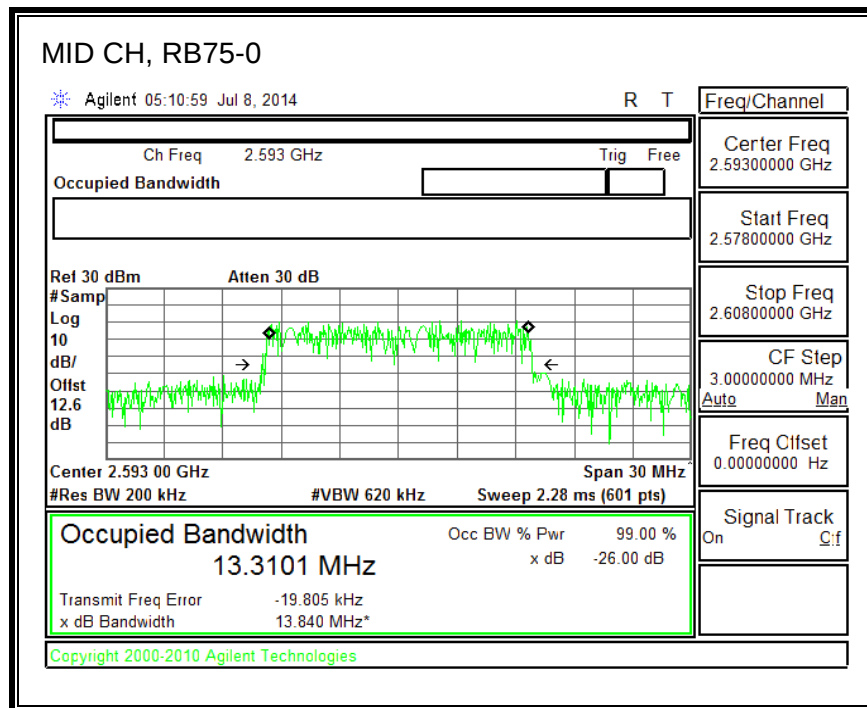
QPSK, (10.0 MHz BAND WIDTH)



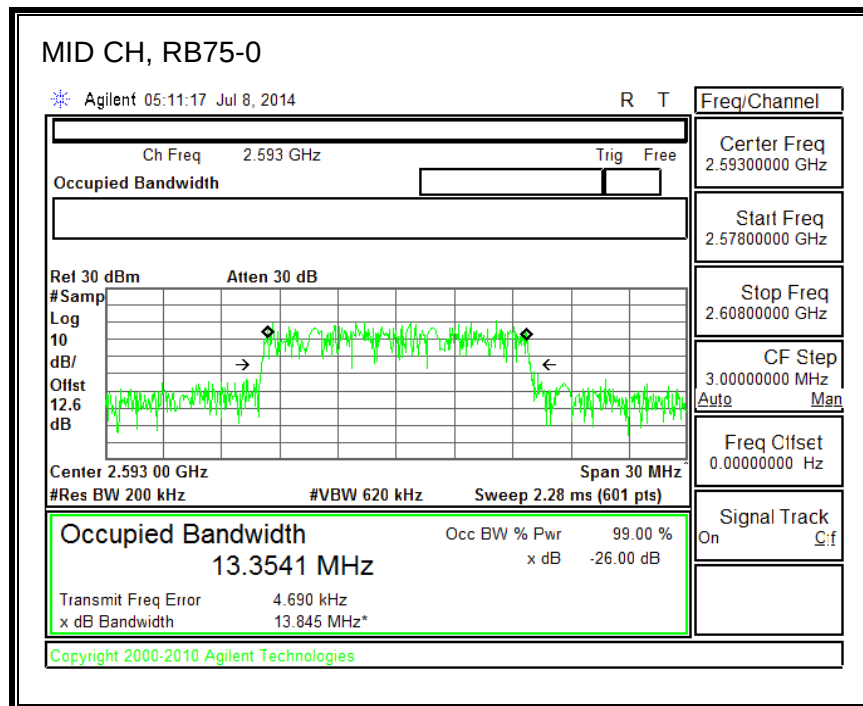
16QAM, (10.0 MHz BAND WIDTH)



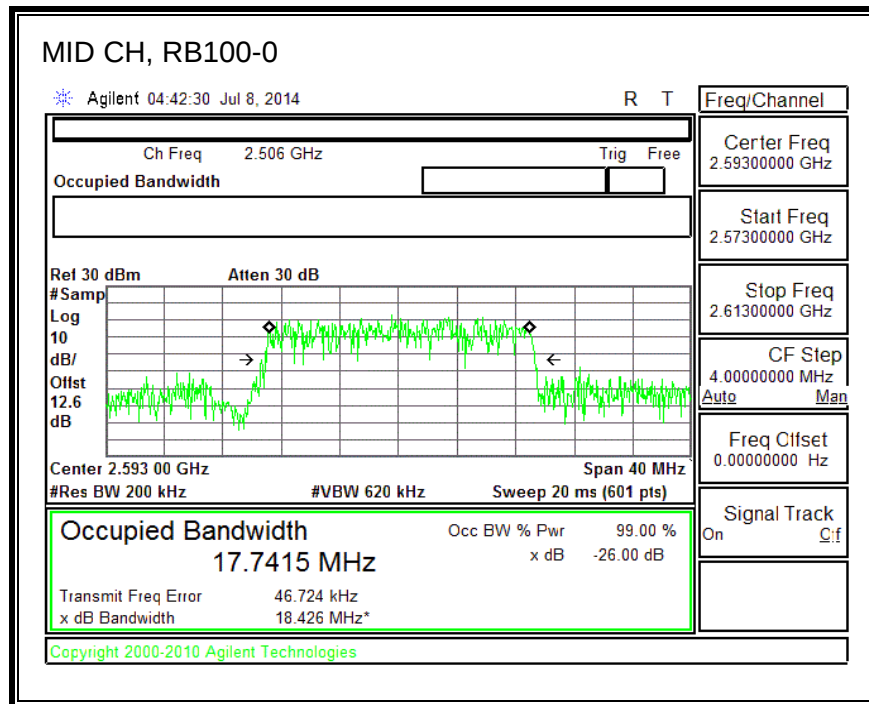
QPSK, (15.0 MHz BAND WIDTH)



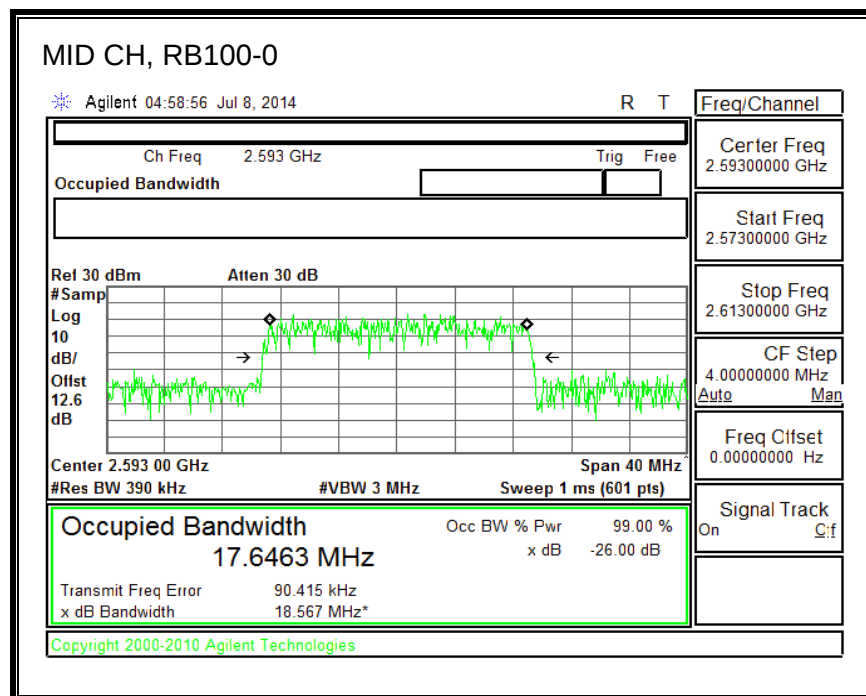
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)



16QAM, (20.0 MHz BAND WIDTH)



8.2. BANDEDGE AND EMISSION MASK

RULE PART(S)

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

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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (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 MHz 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. 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 MHz or 1 percent of emission bandwidth, as specified). 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.

Emission mask plot has limit line to demonstrate the out of band emission lower than -25dBm/MHz, therefore, in order to show compliance, following formula has been applied on each emission mask plots.

RBW integration method is applied when RBW less than 1MHz: Emission mask display line formula= -25dBm + 10log (RBW/1MHz)

For example: If RBW = 100 KHz than display line limit will be -25dBm + 10log (100/1000) = -35dBm

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 43 + 10 log (P) dB at the channel edge and 55 + 10 log (P) dB at 5.5 megahertz from the channel edges.

(Channel edges are defined under §27.5 (i) Frequency assignment for the BRS/EBS band)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz 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

RULE PART(S) for Emission Mask

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 Log₁₀(f/6.1) decibels or 50 + 10 Log₁₀(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 + 10Log₁₀(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.

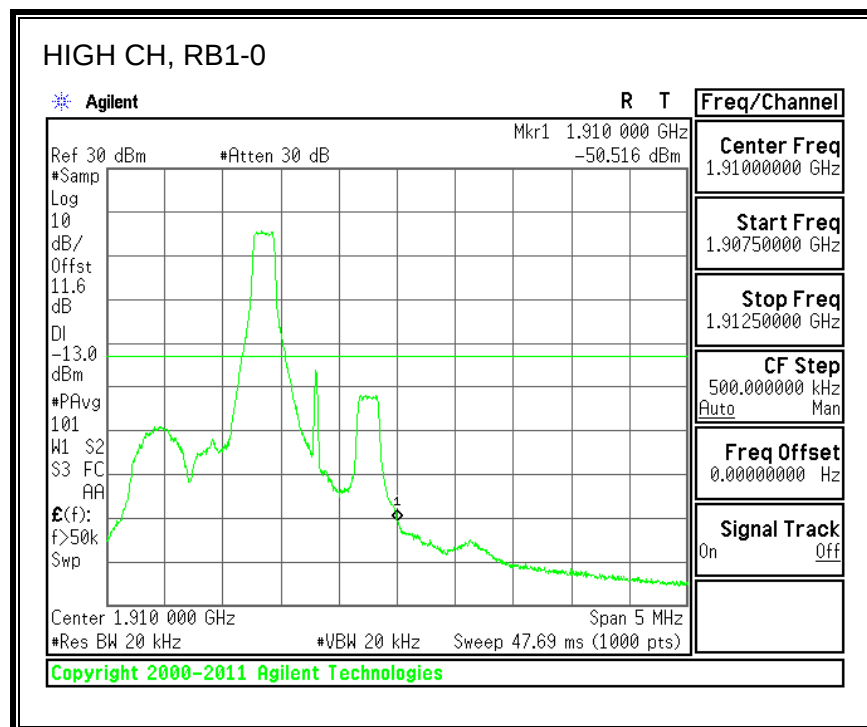
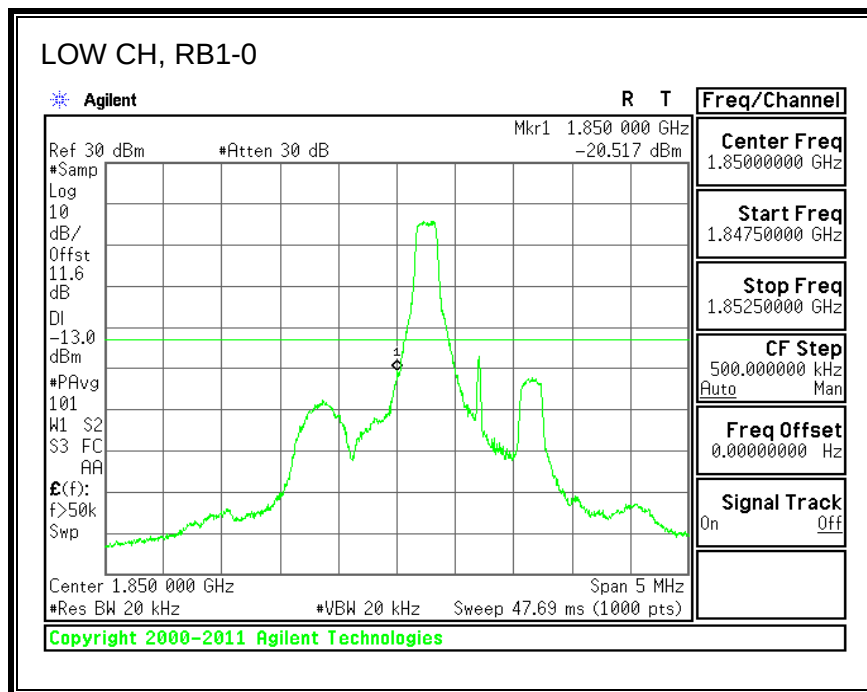
MODES TESTED

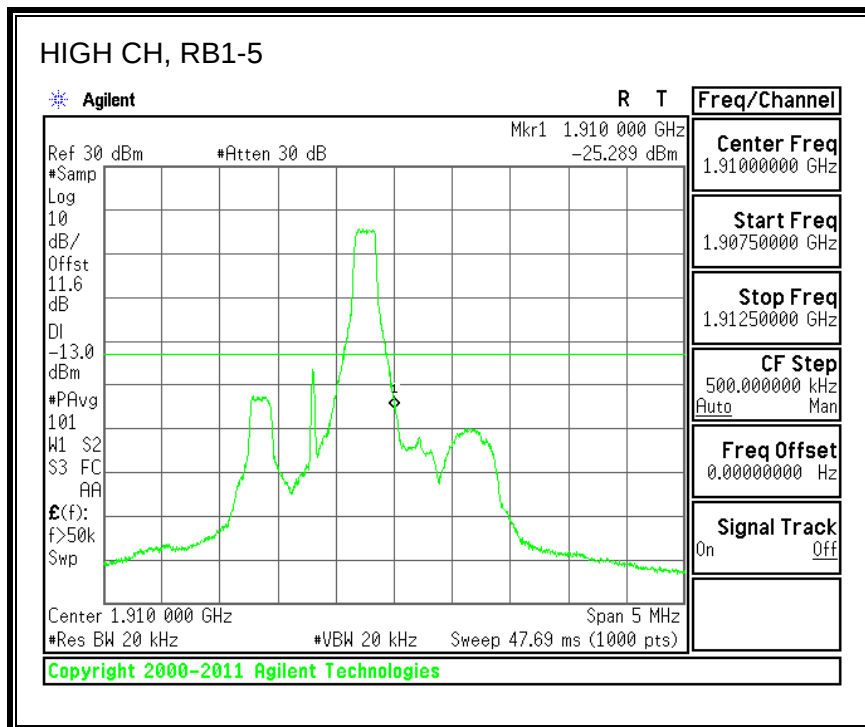
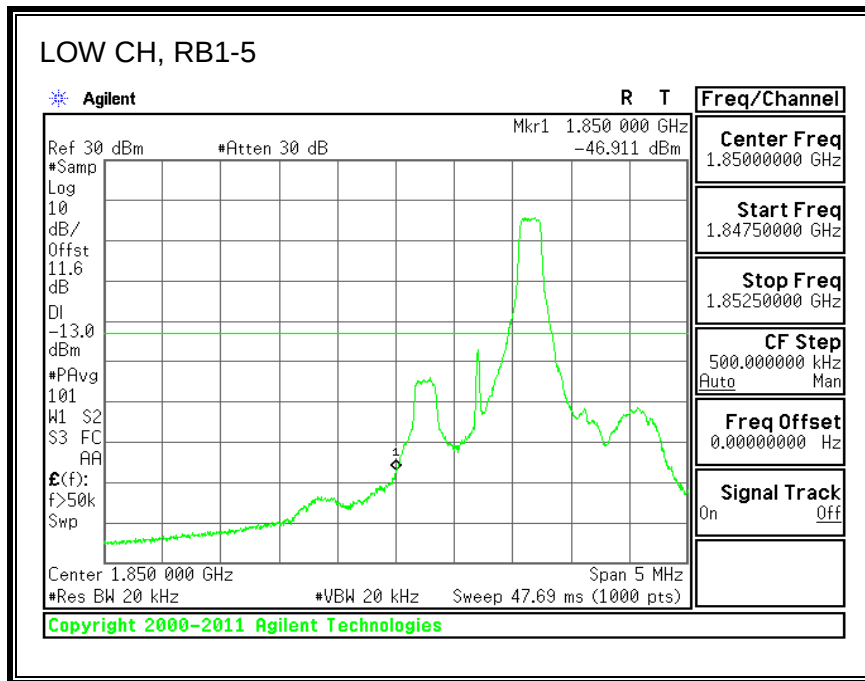
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

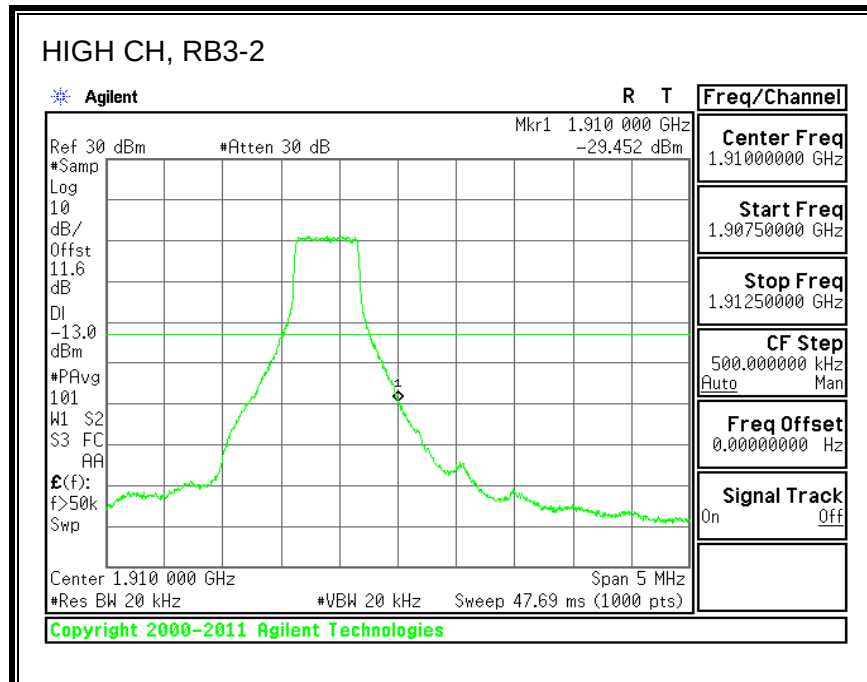
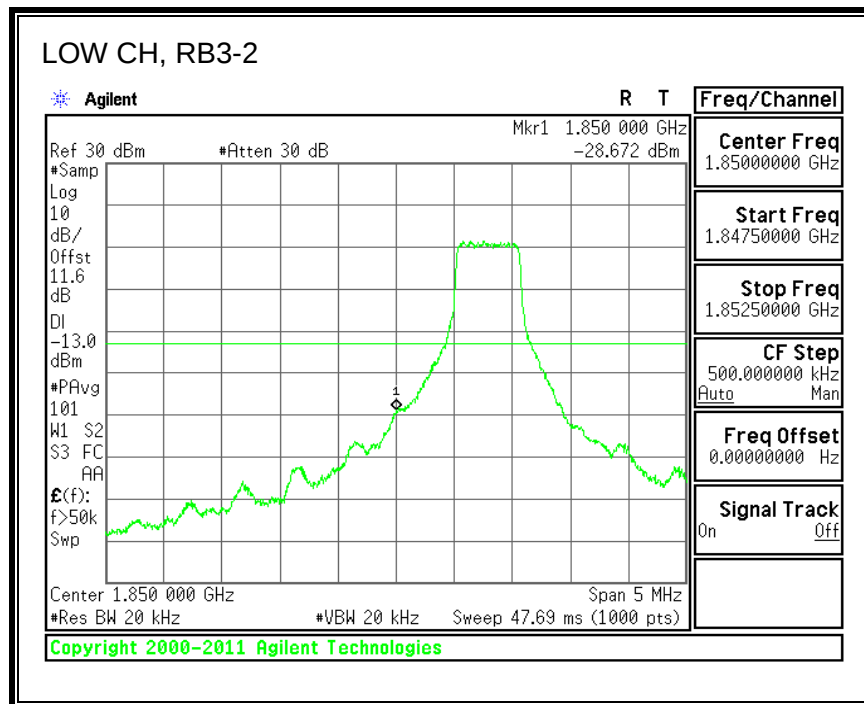
RESULTS

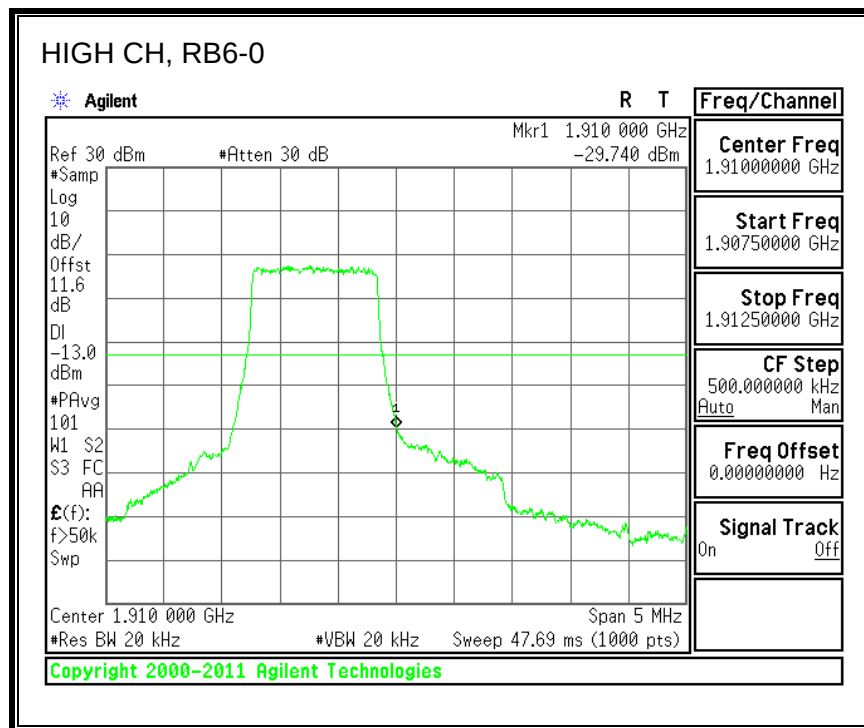
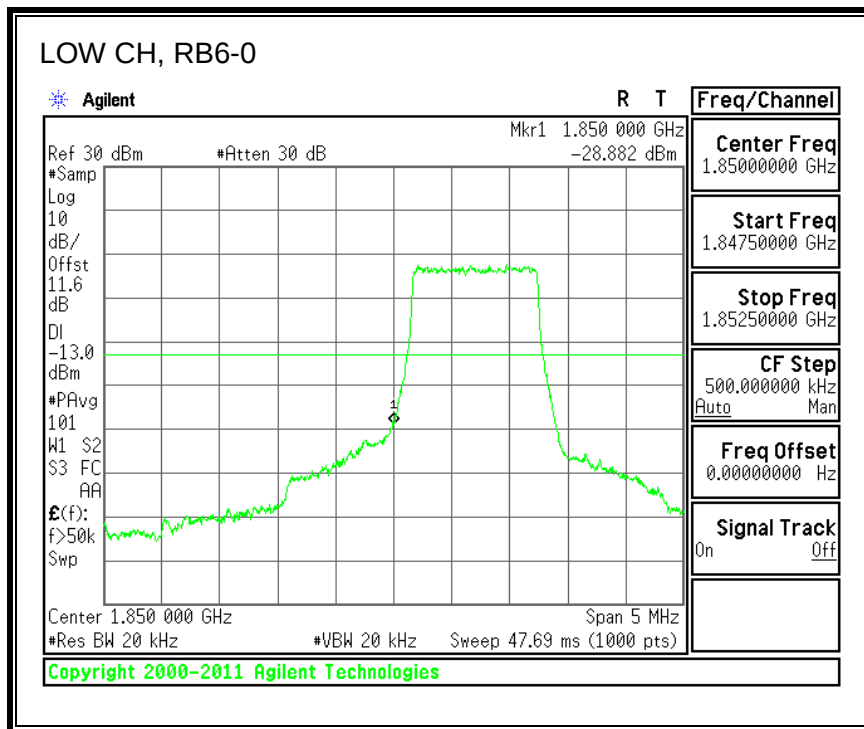
8.2.1. LTE BAND 2 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

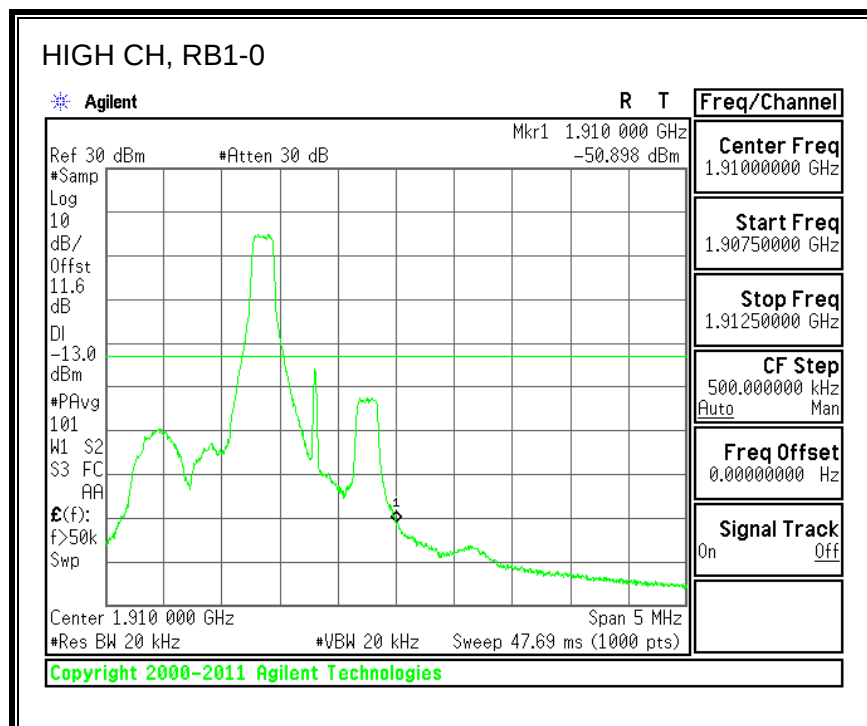
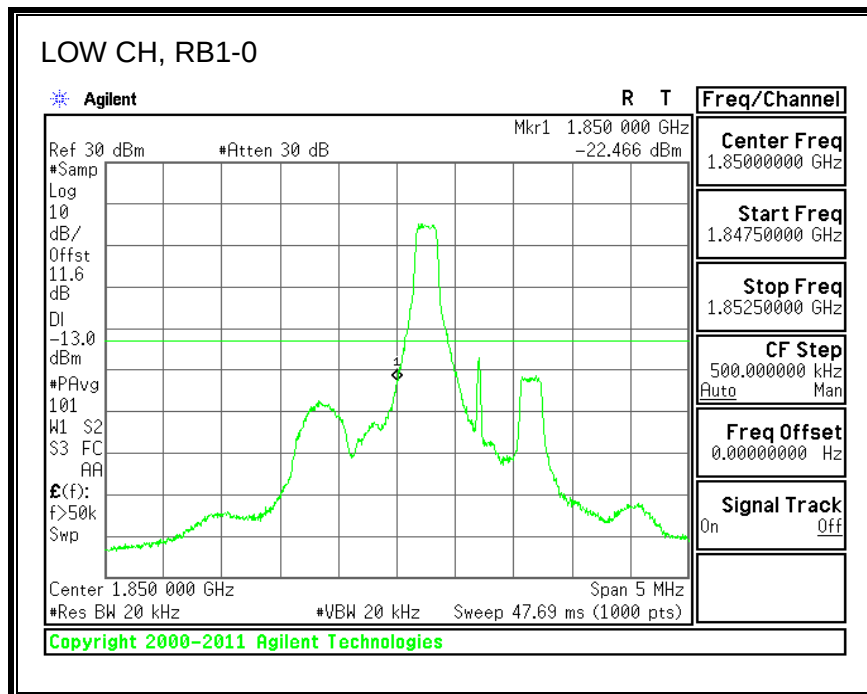


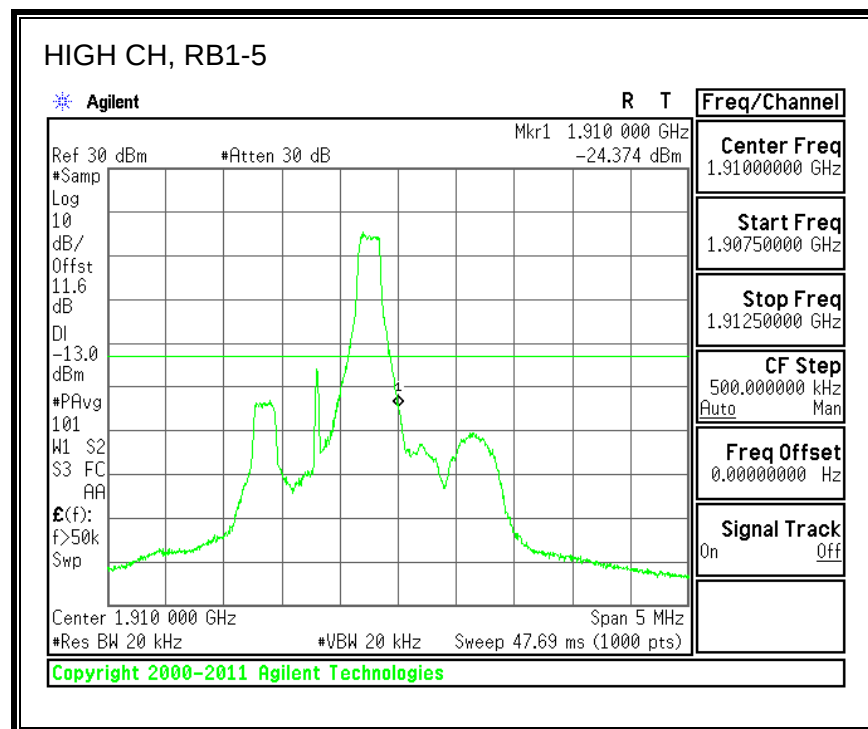
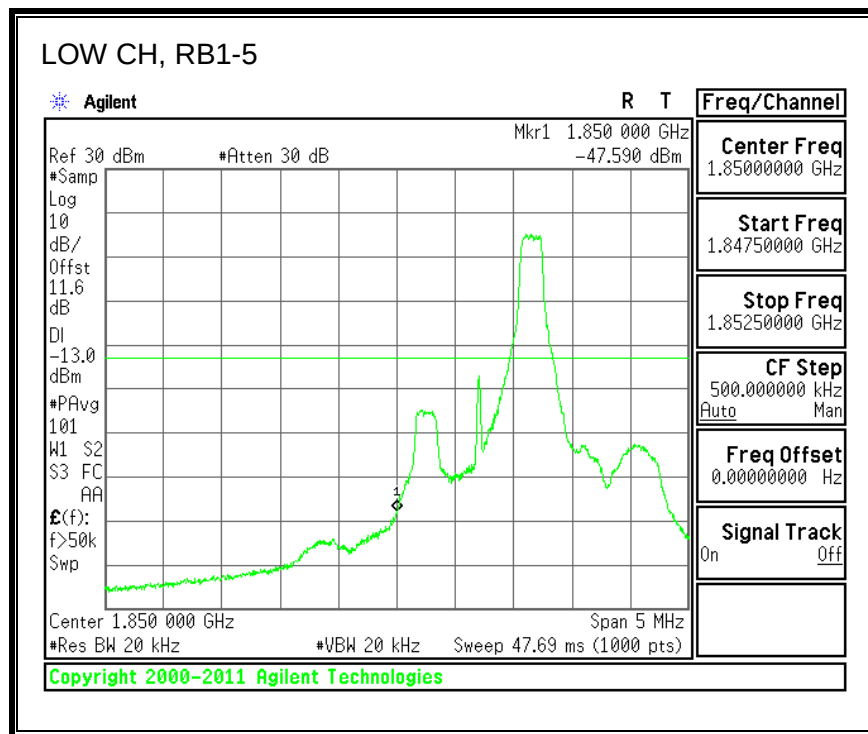


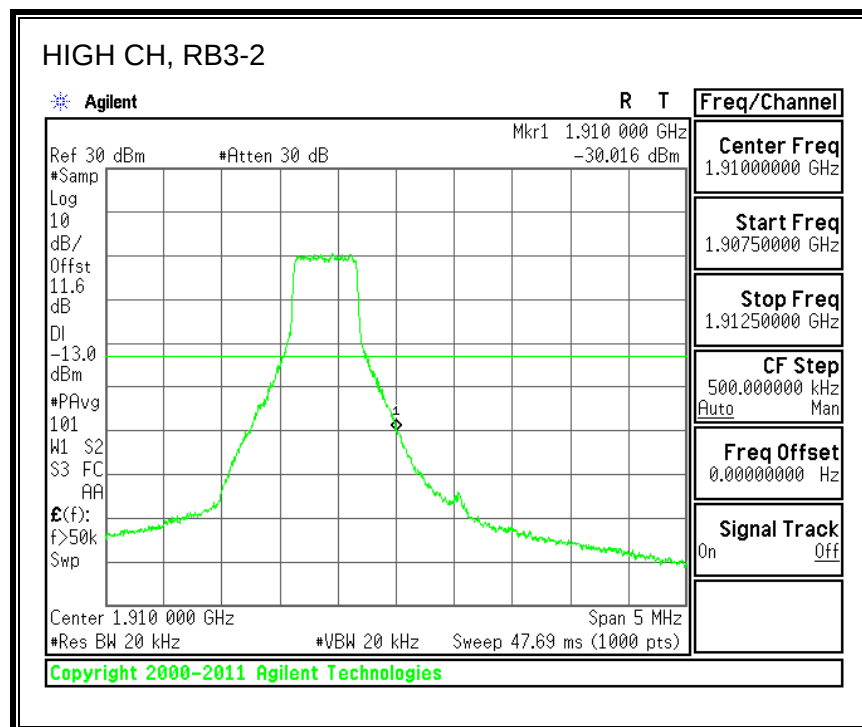
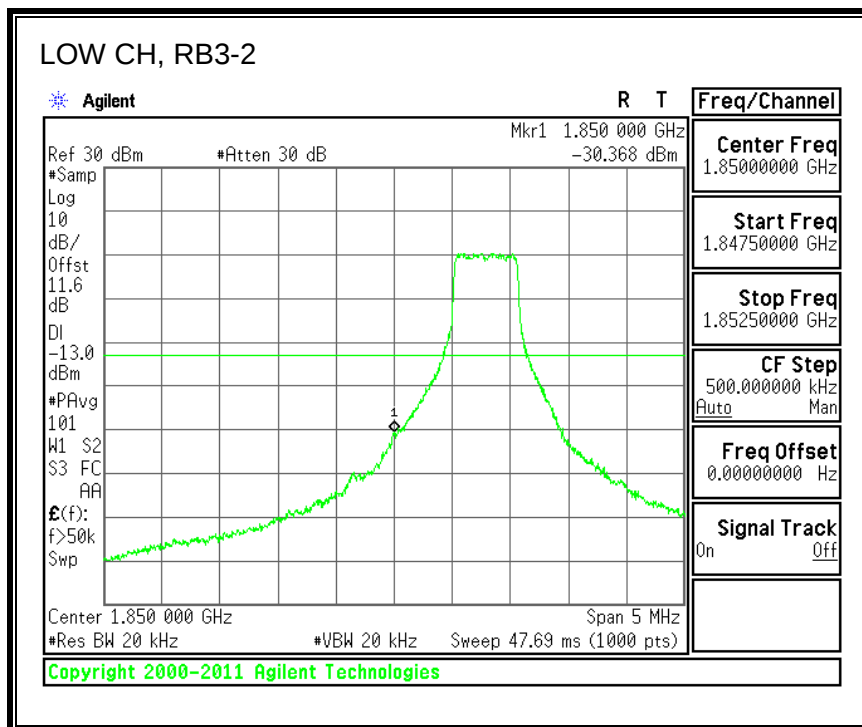


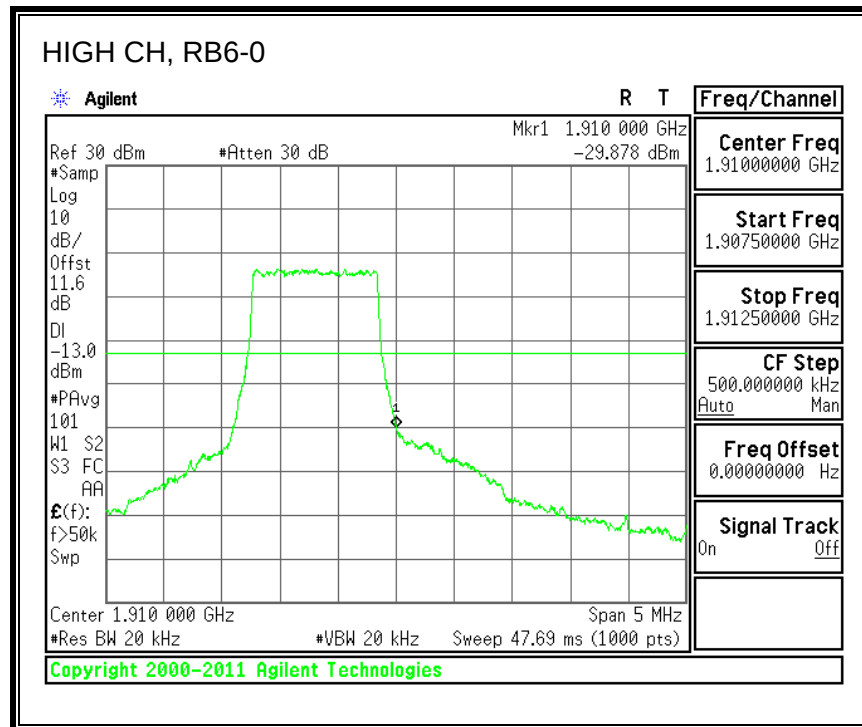
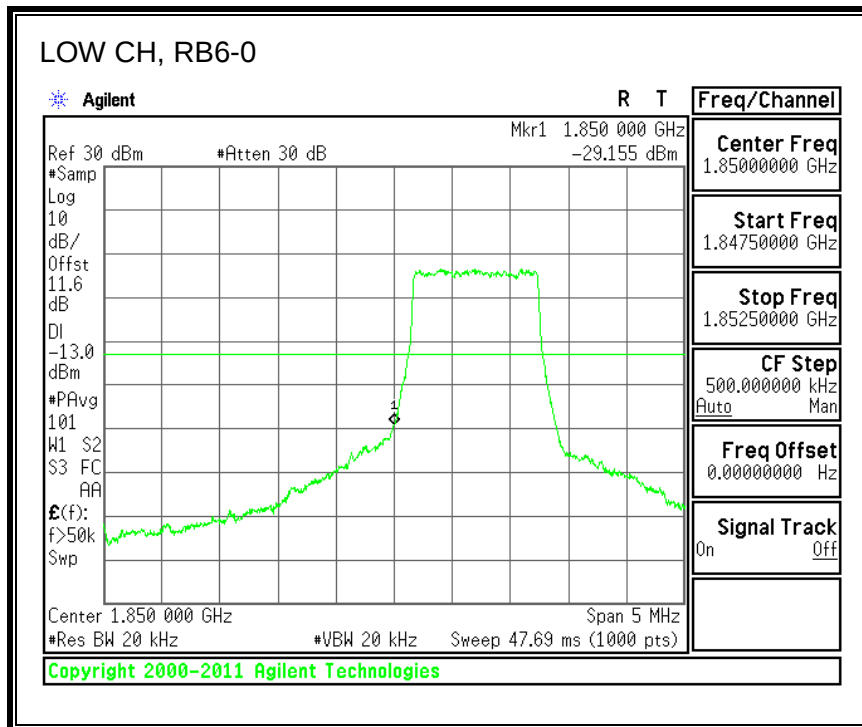


16QAM, (1.4 MHz BAND WIDTH)

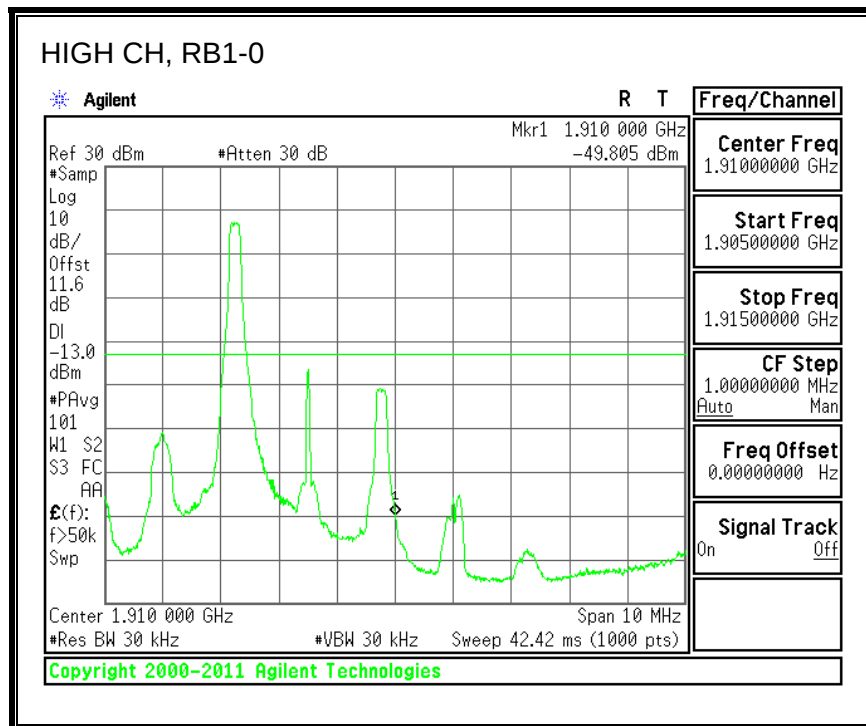
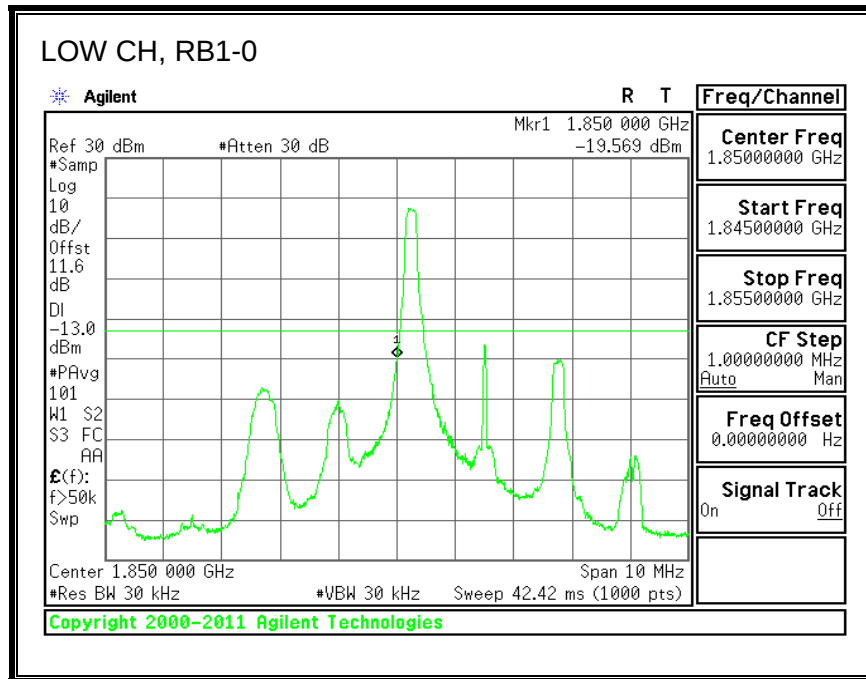


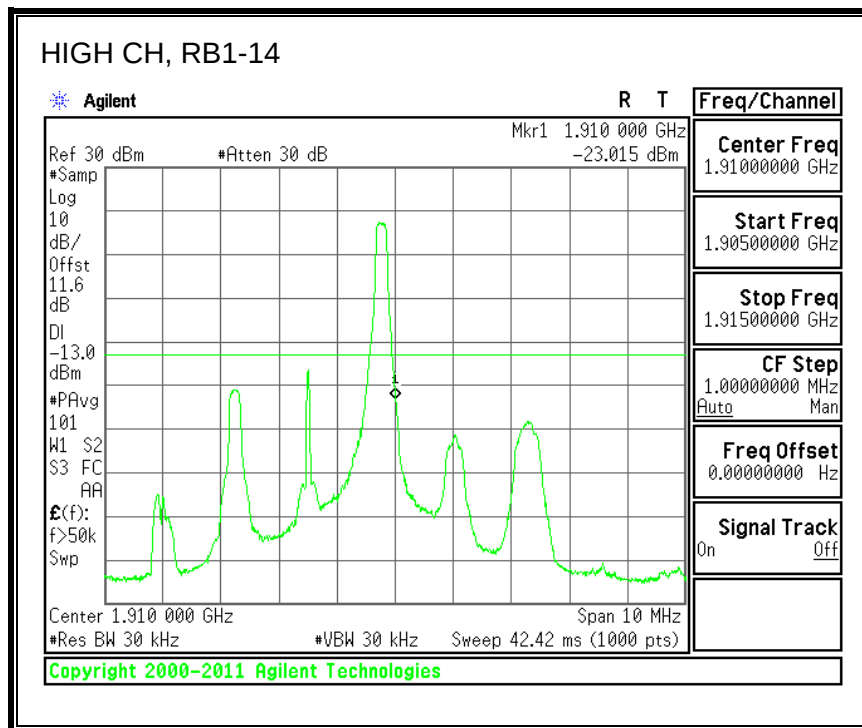
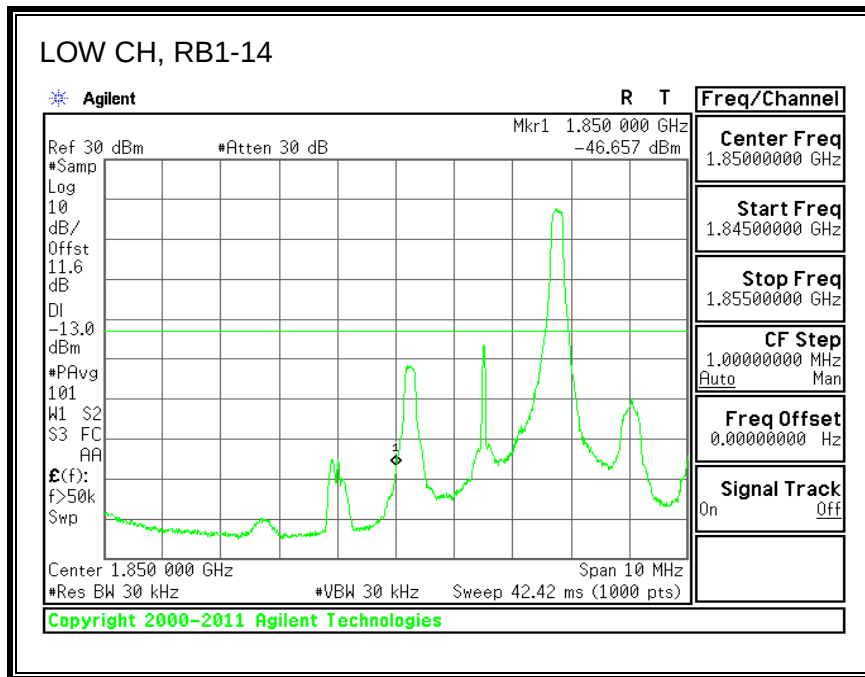


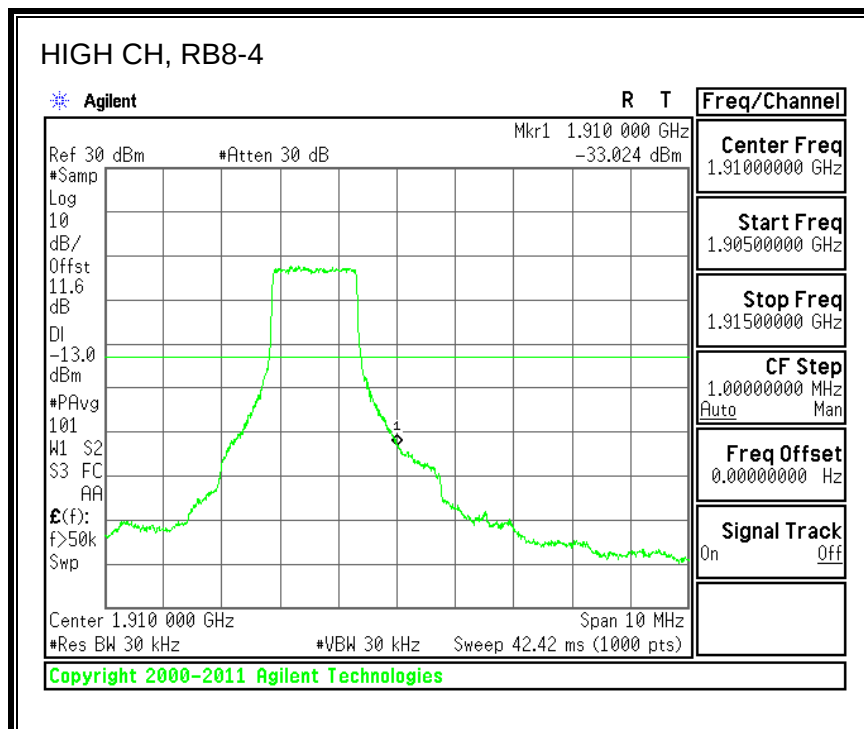
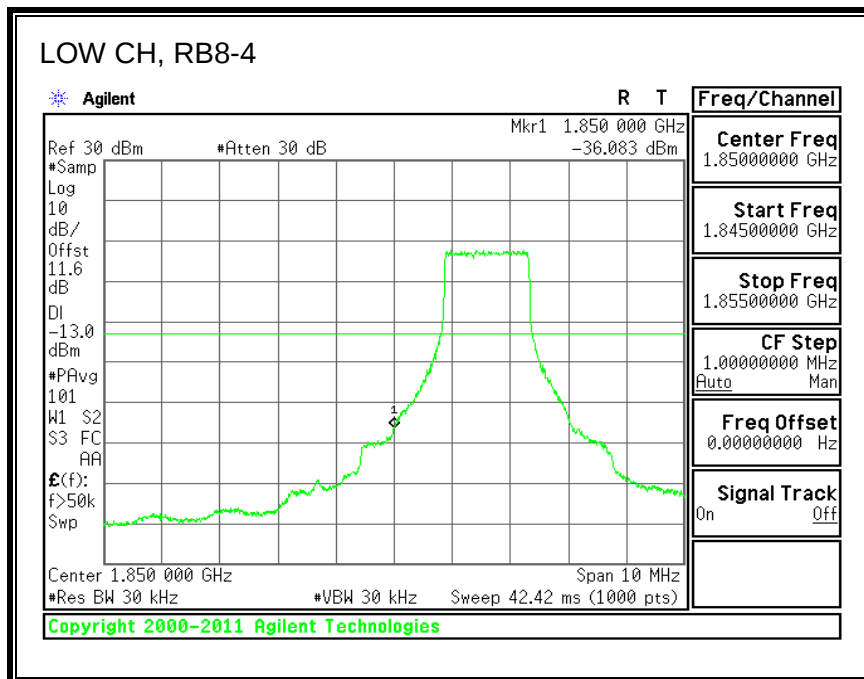


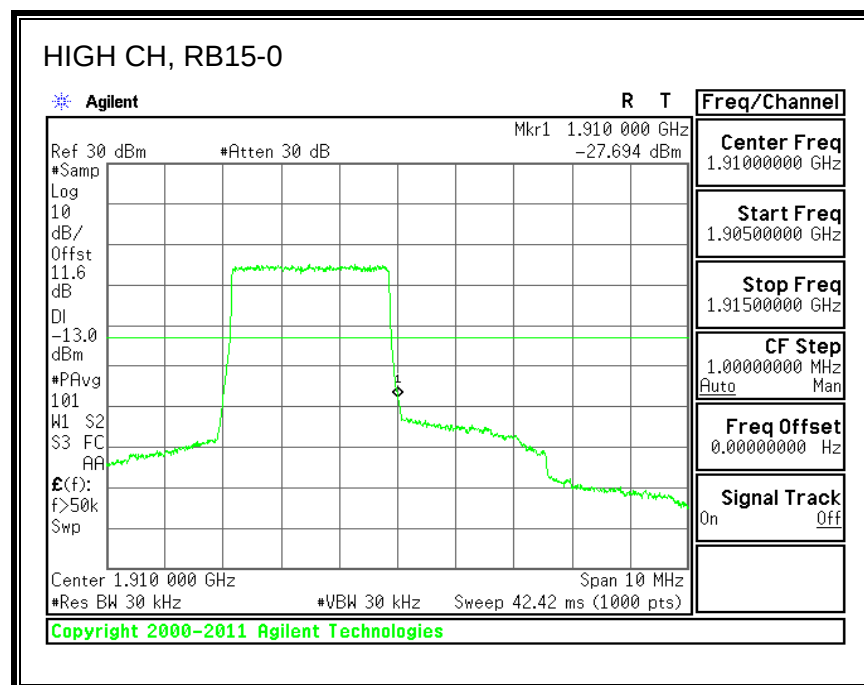
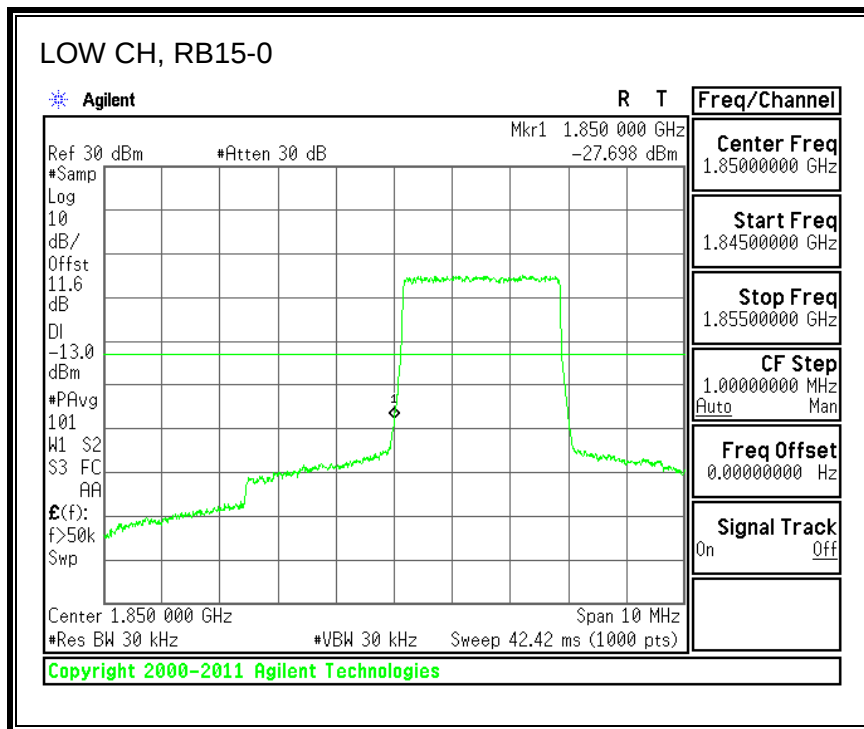


QPSK, (3.0 MHz BAND WIDTH)

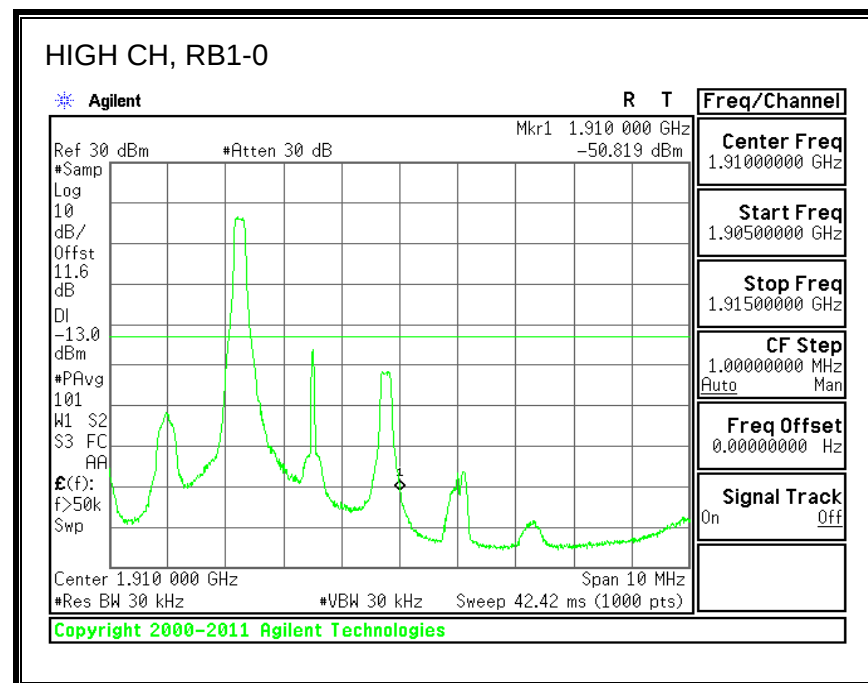
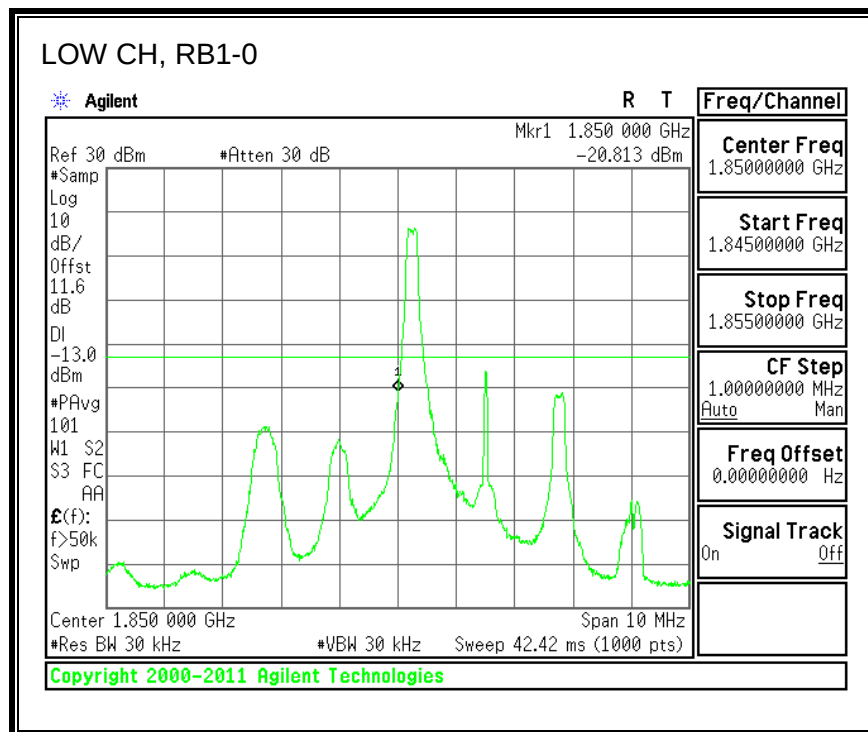


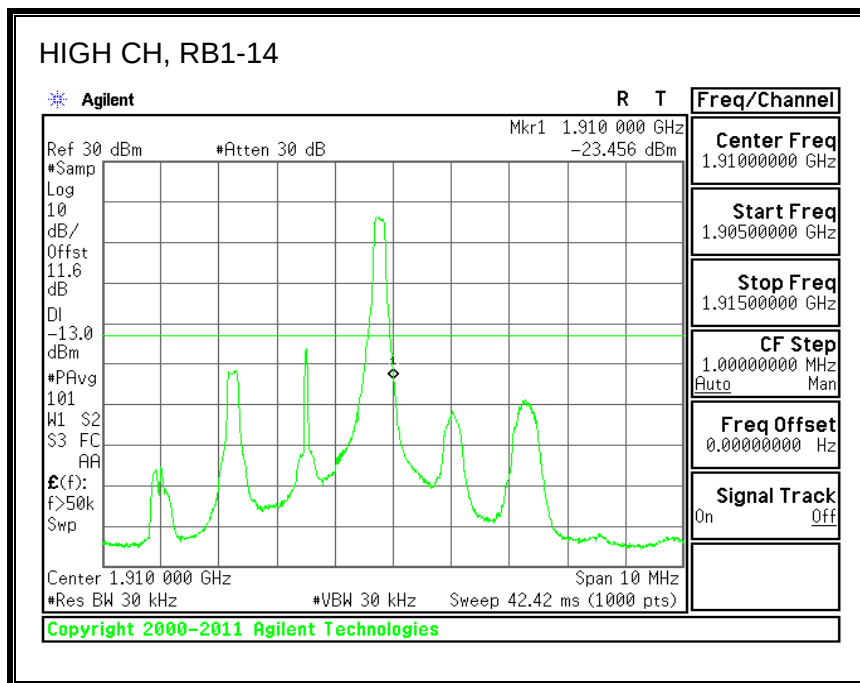
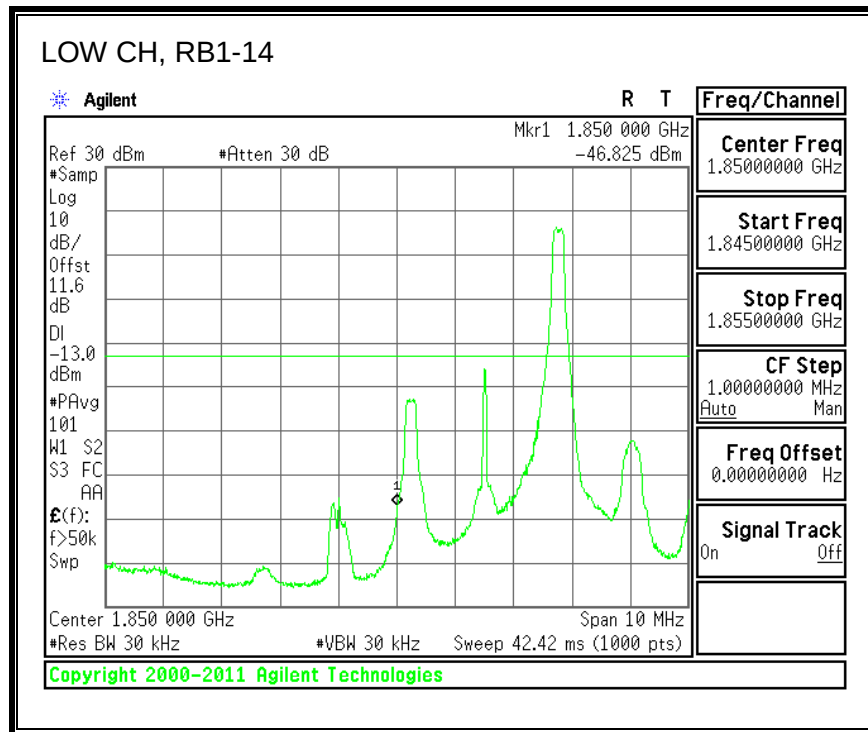


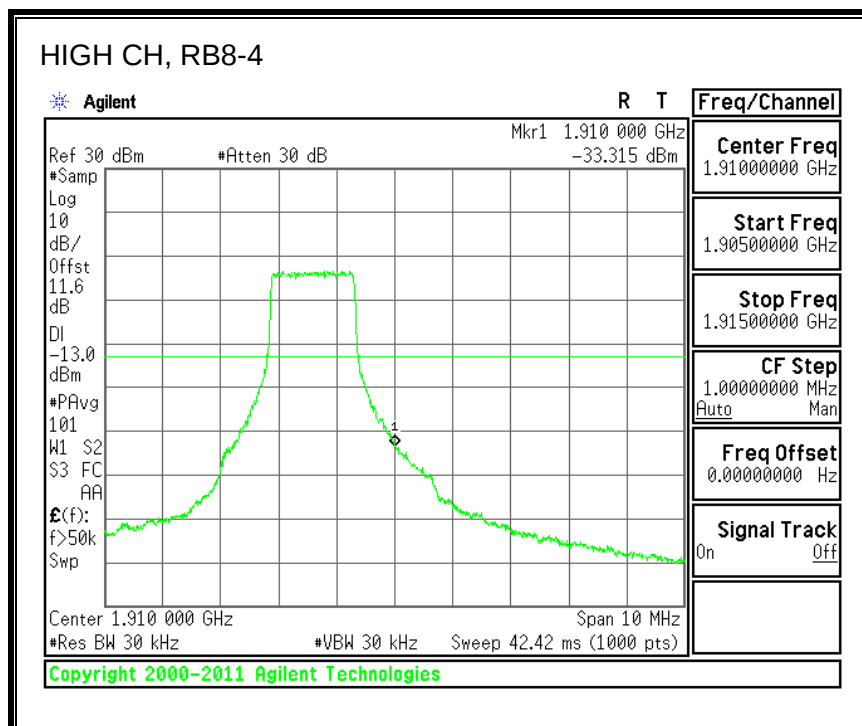
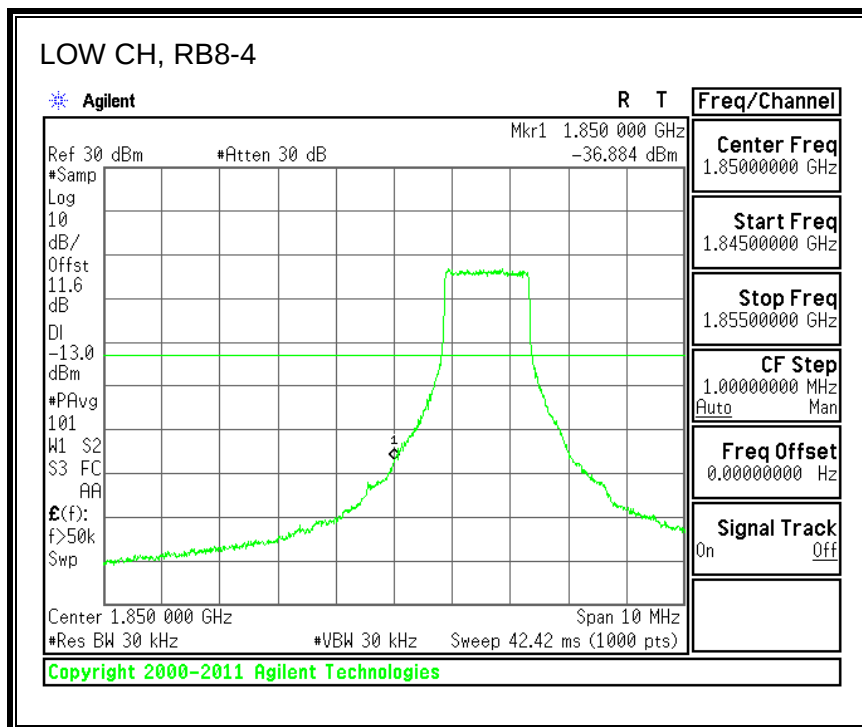


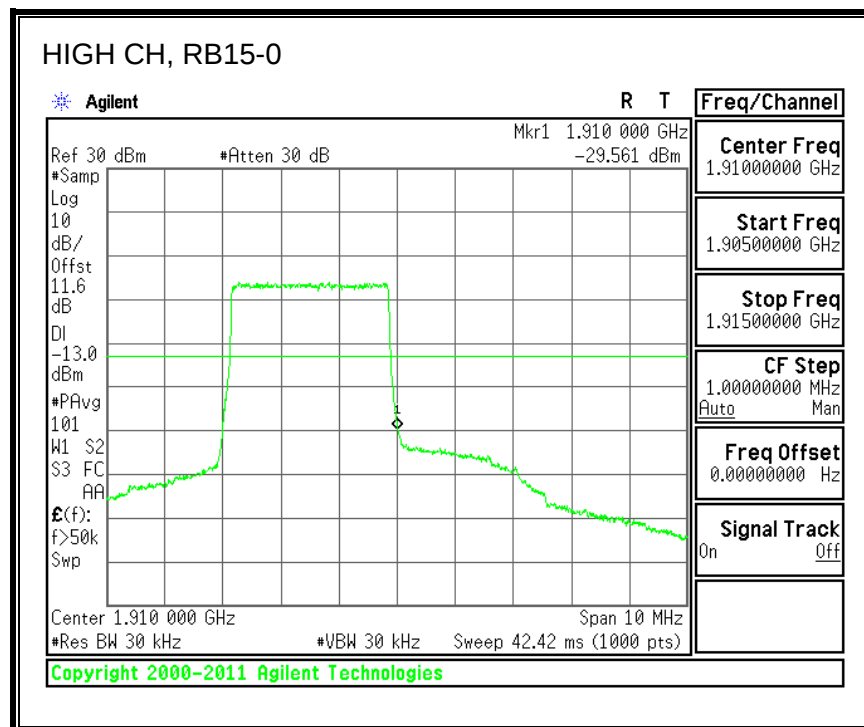
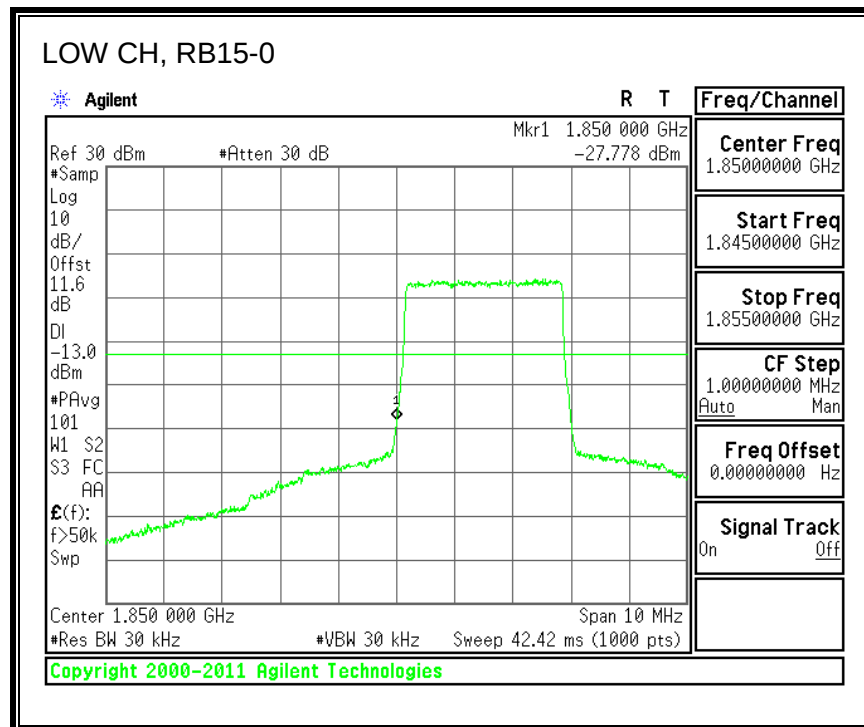


16QAM, (3.0 MHz BAND WIDTH)

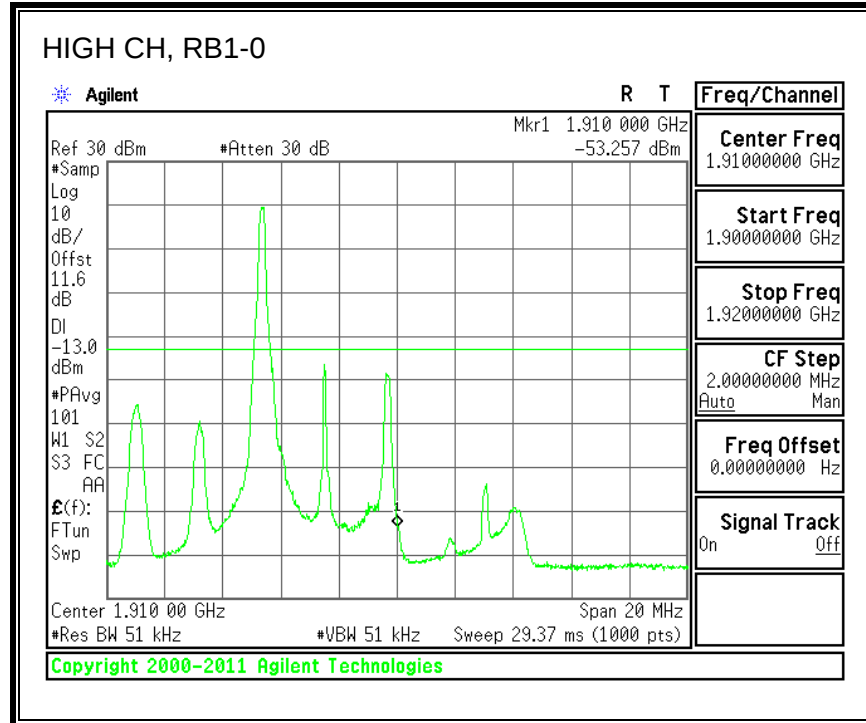
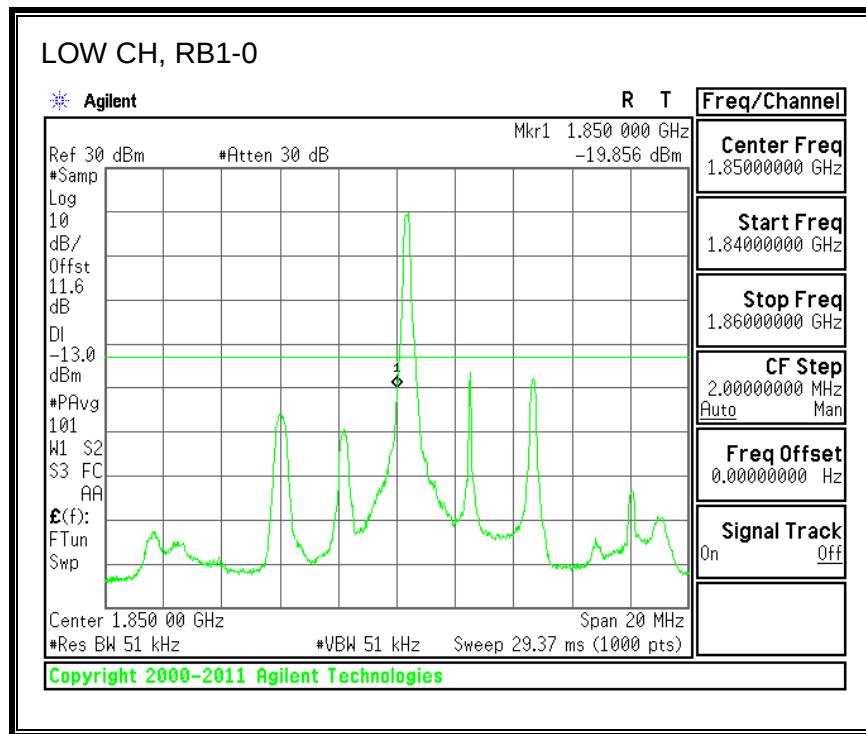


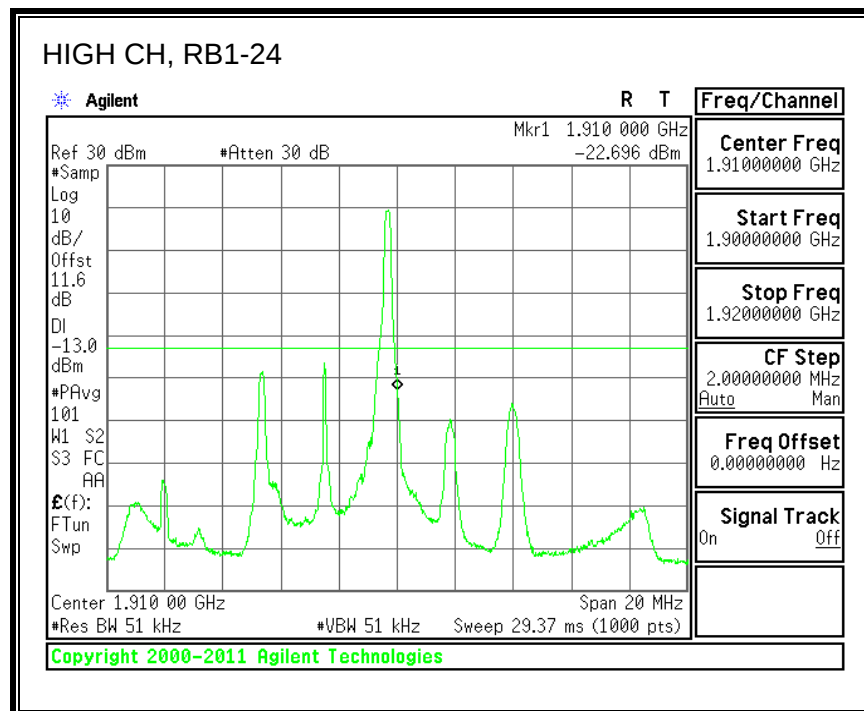
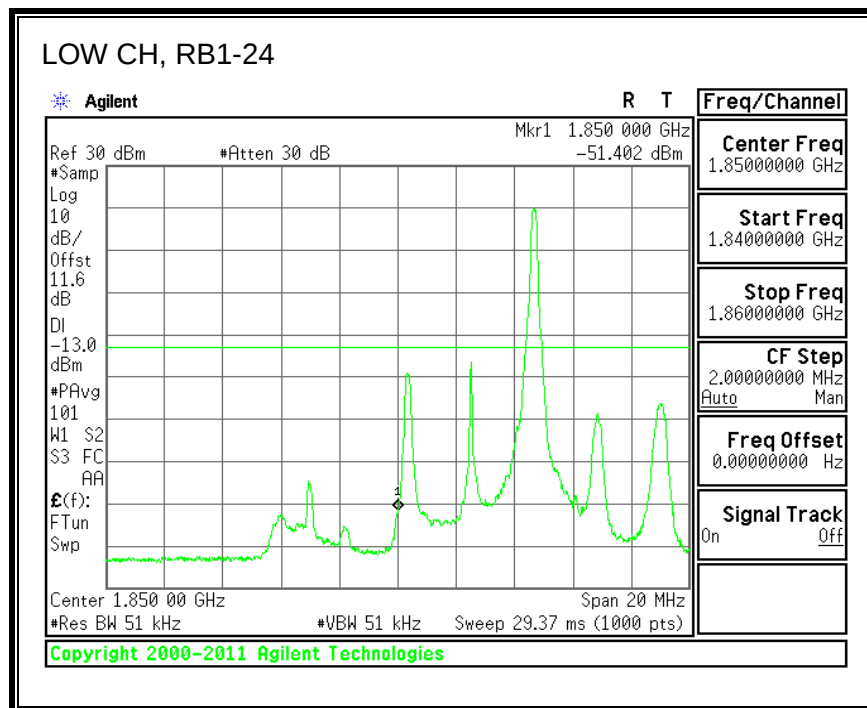


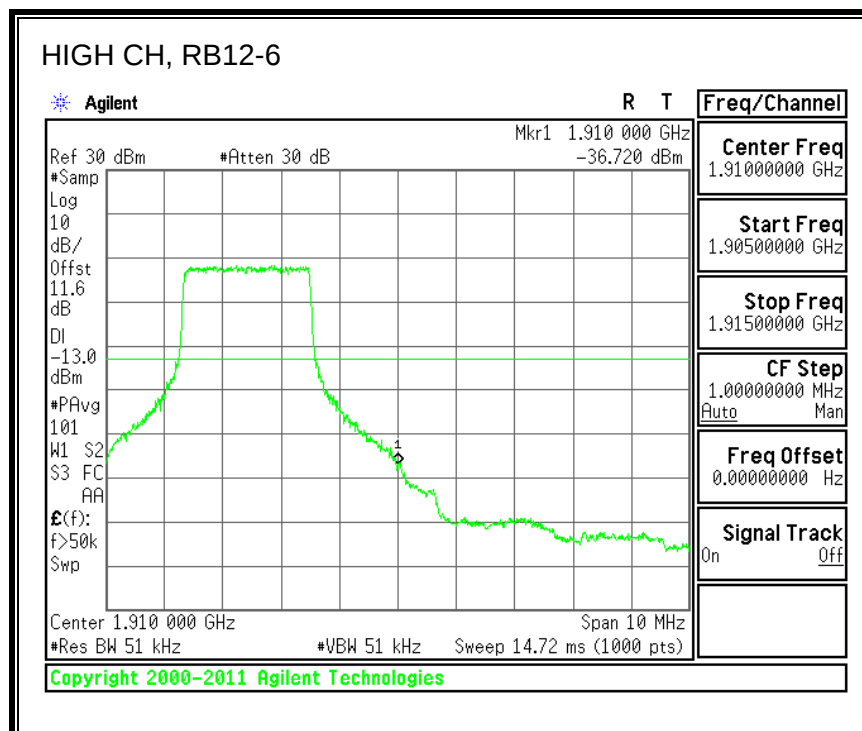
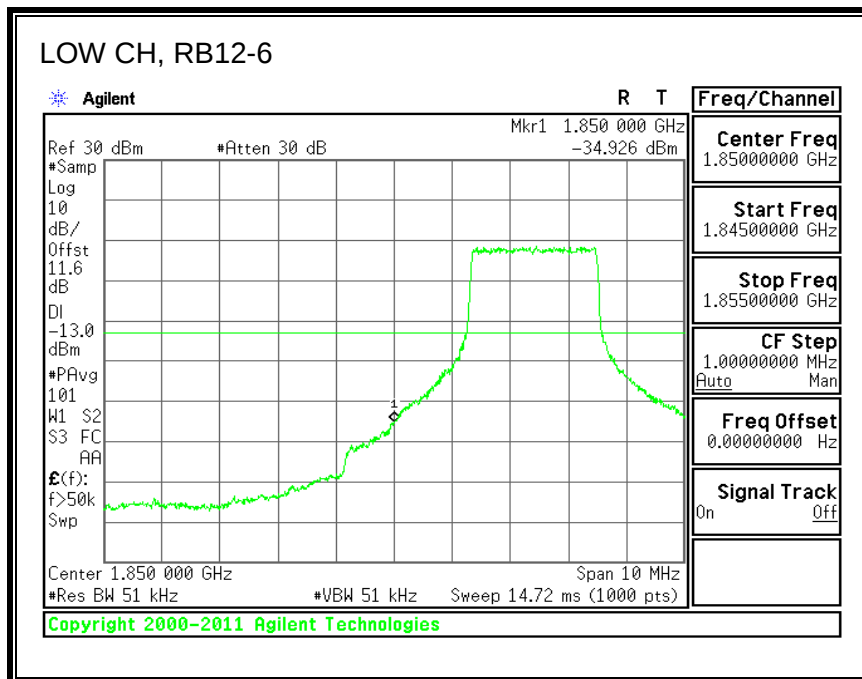


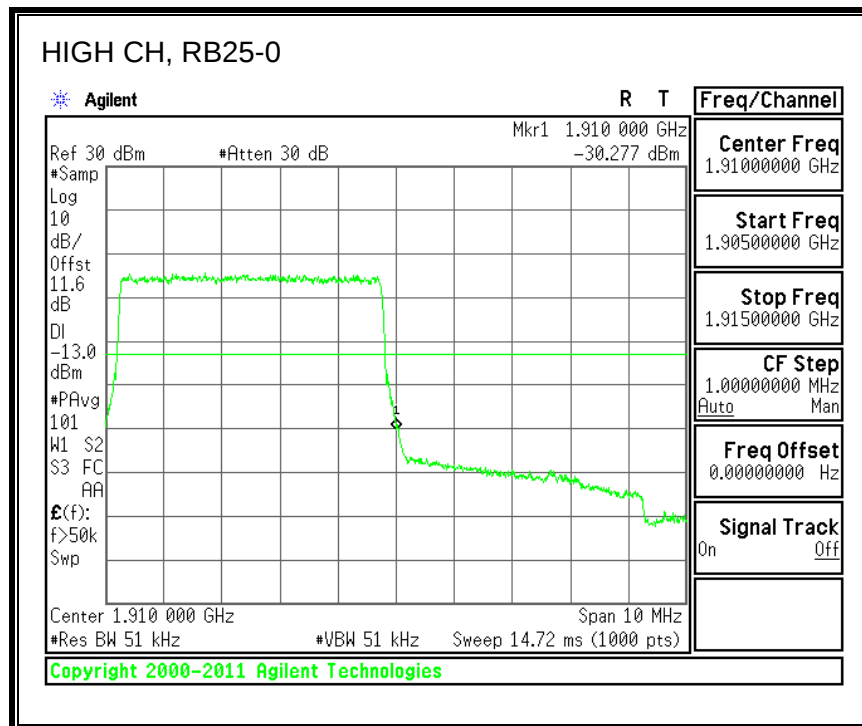
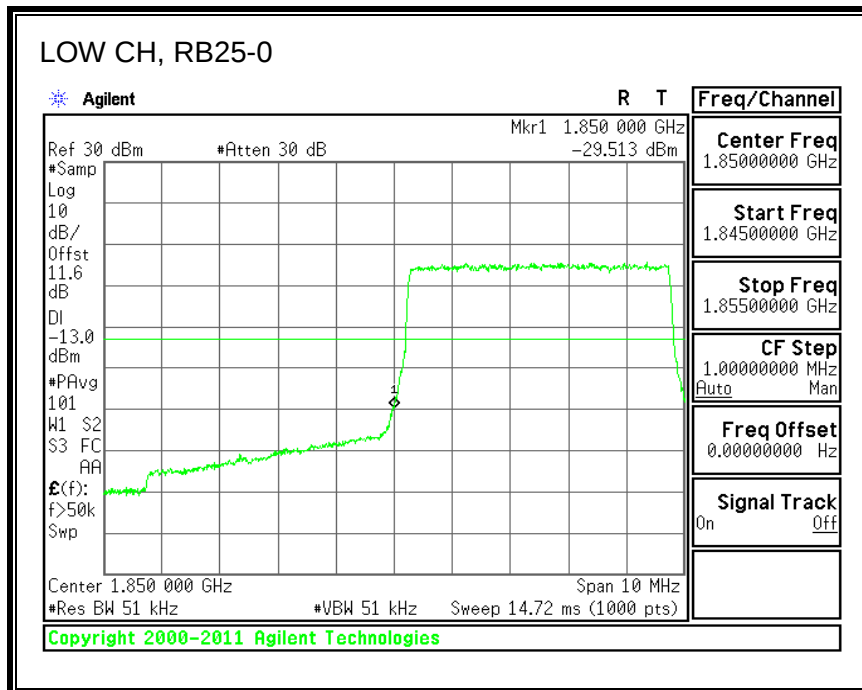


QPSK, (5.0 MHz BAND WIDTH)

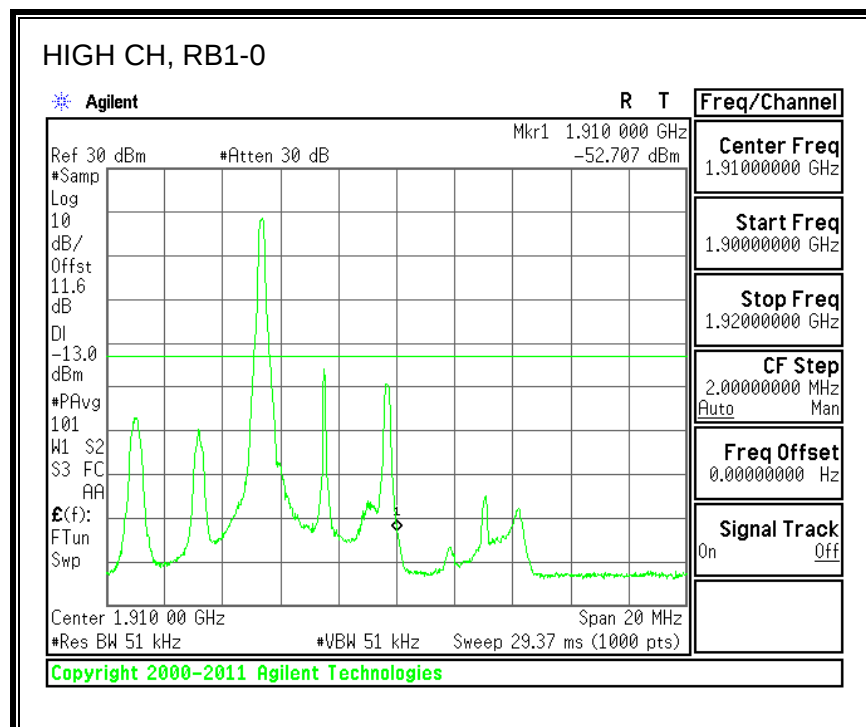
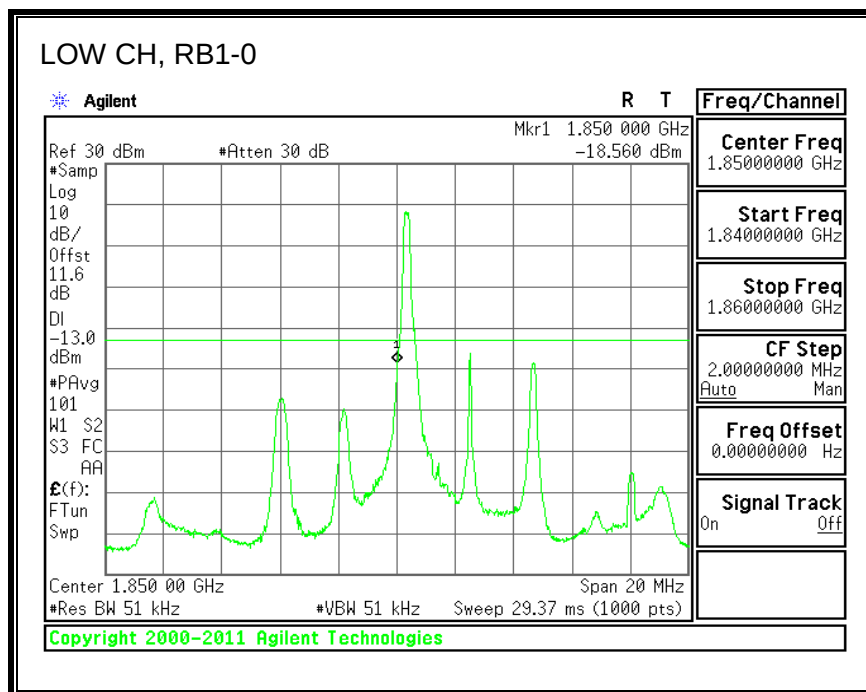


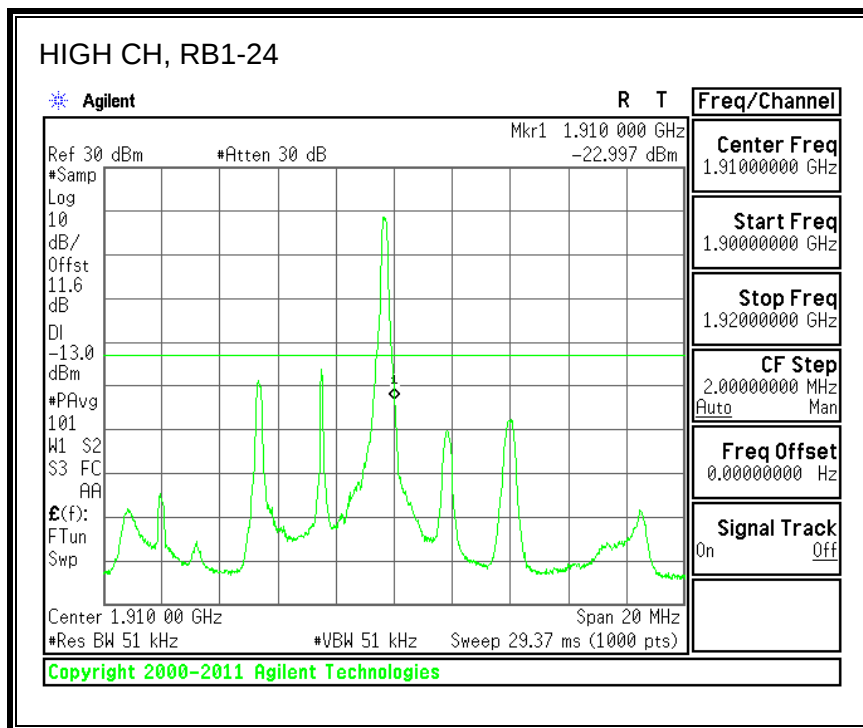
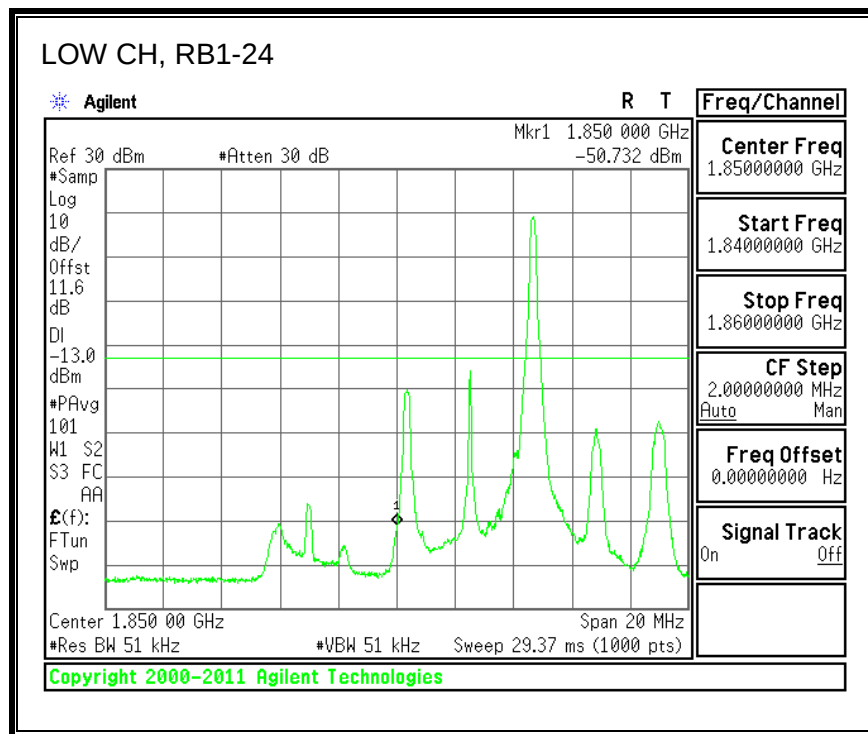


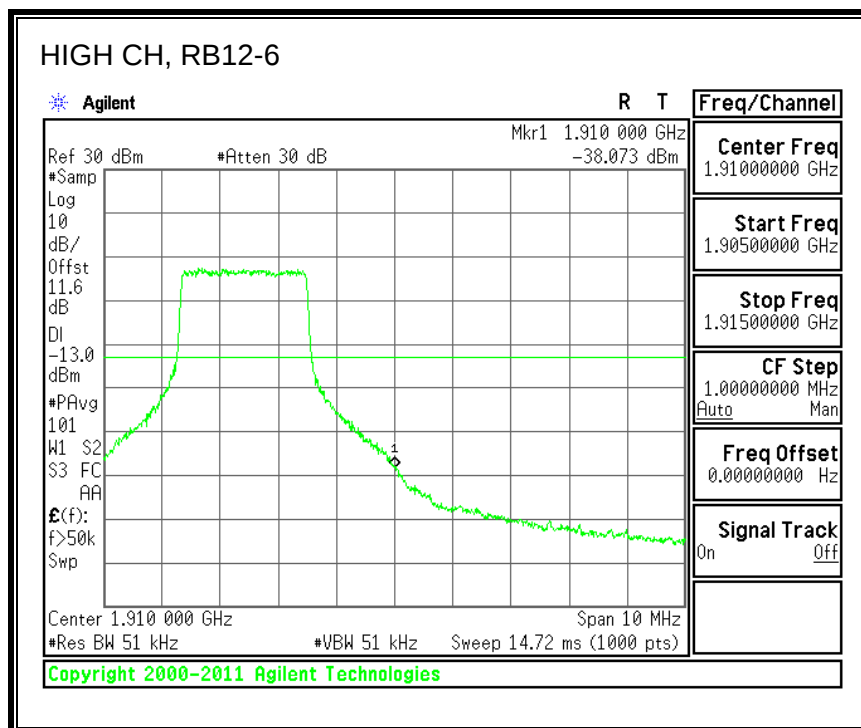
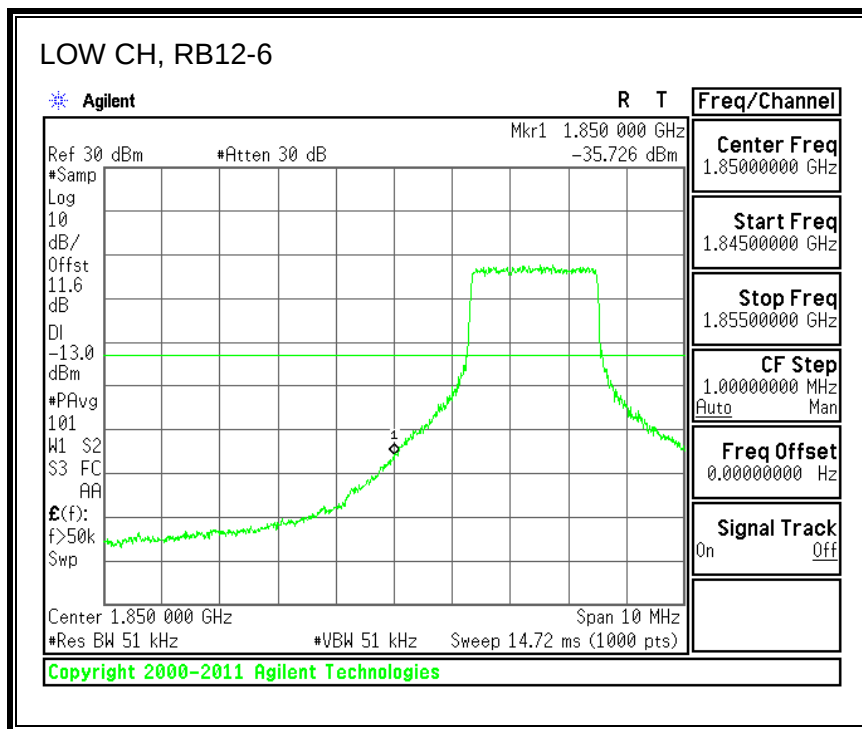




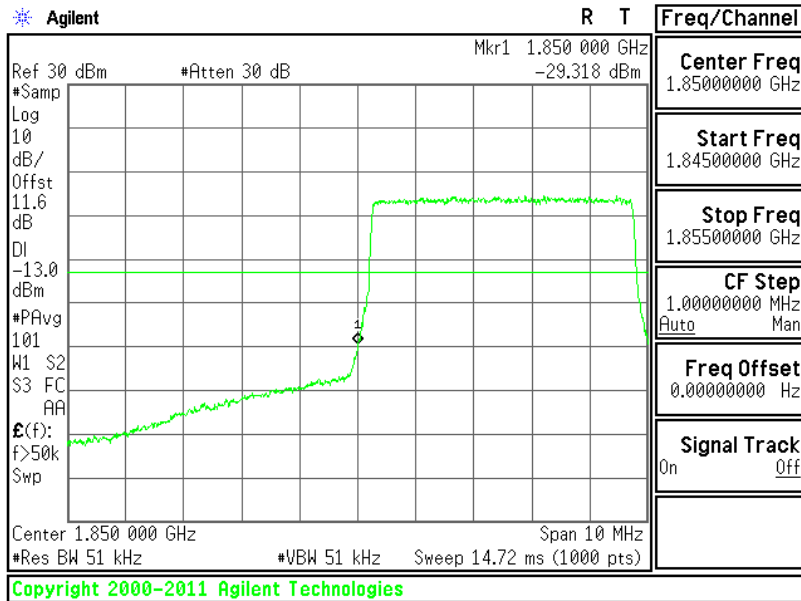
16QAM, (5.0 MHz BAND WIDTH)



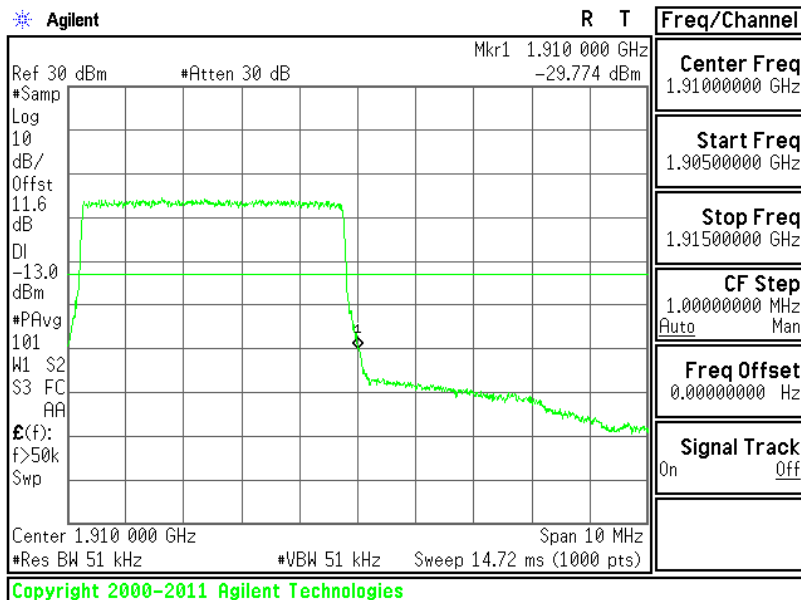




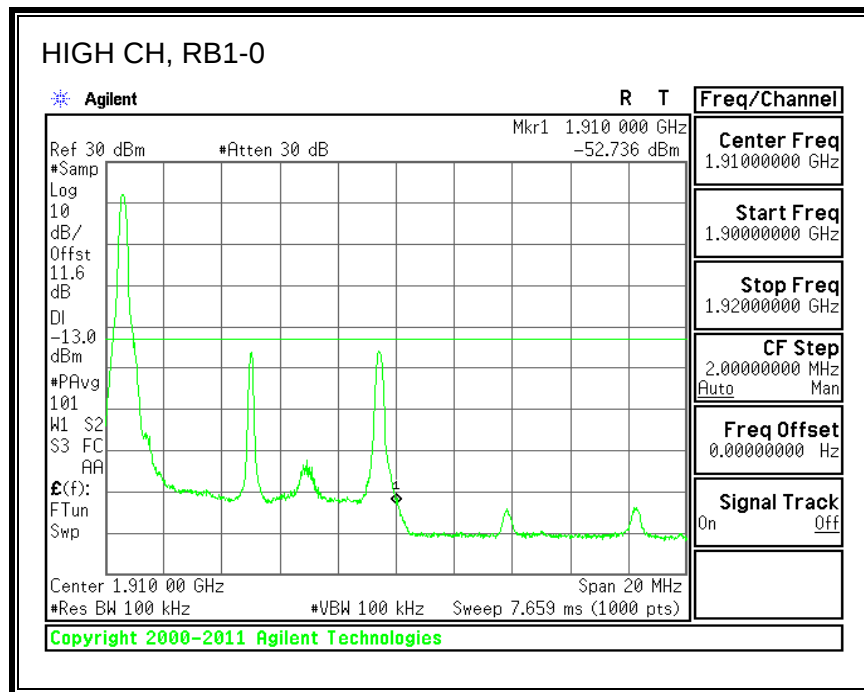
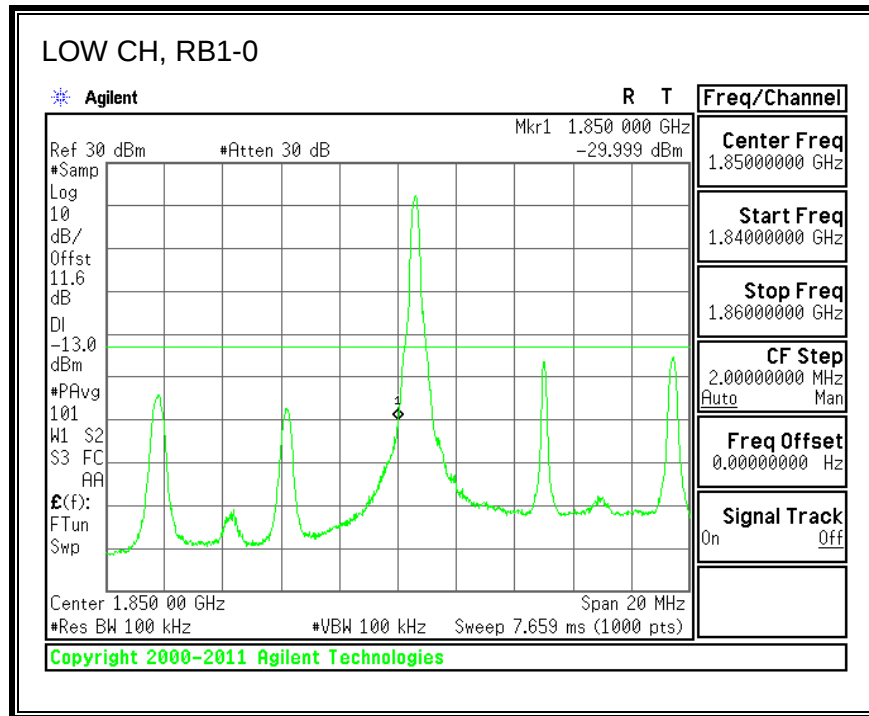
LOW CH, RB25-0

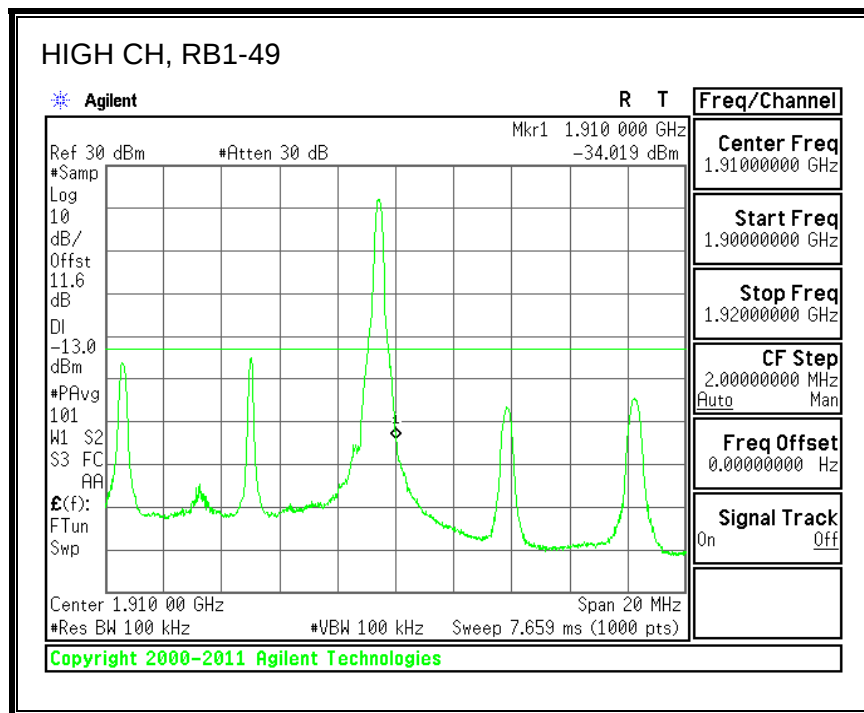
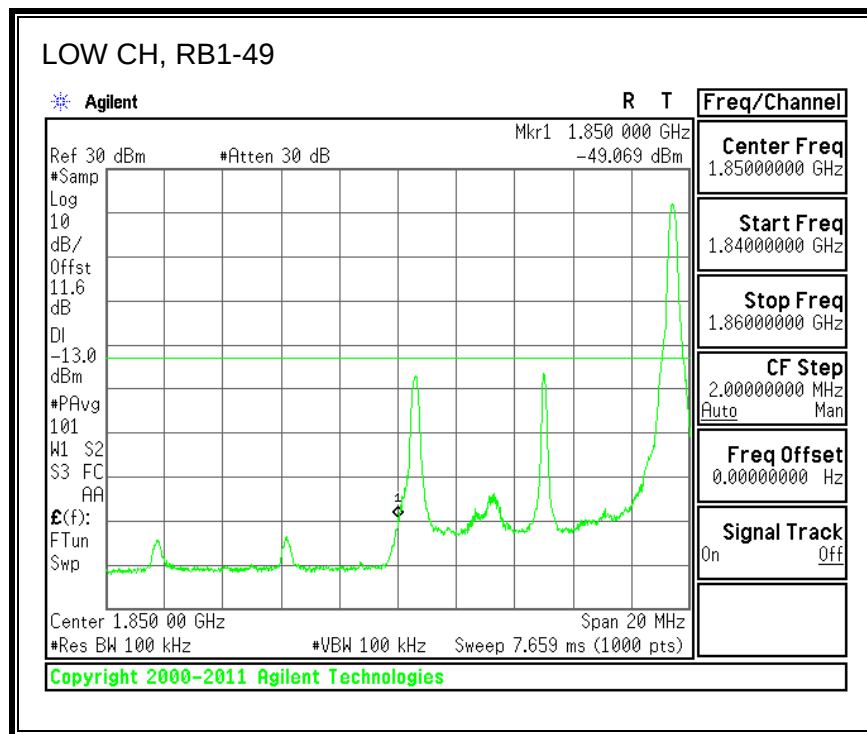


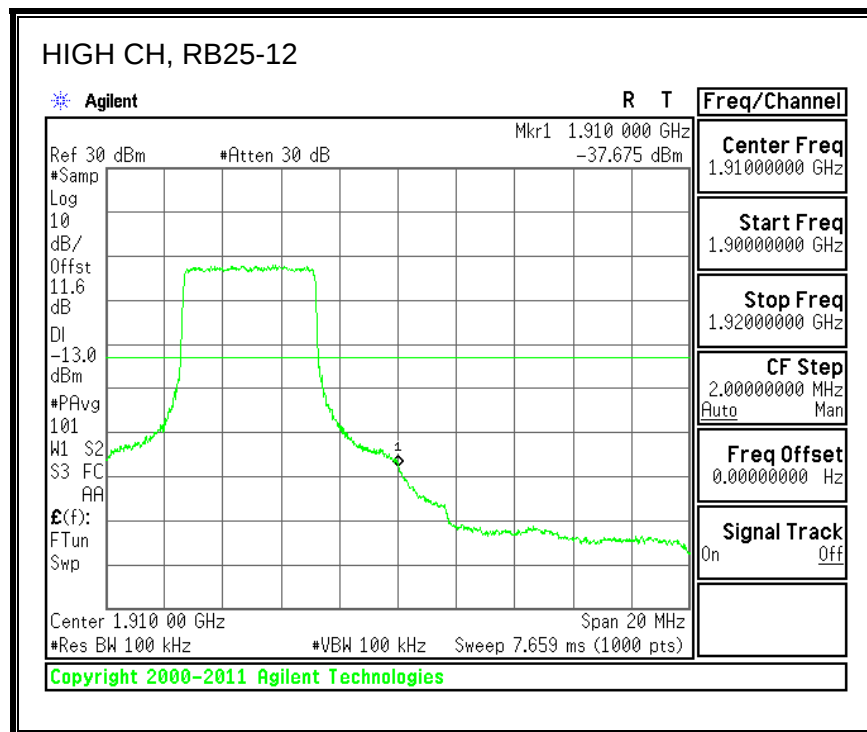
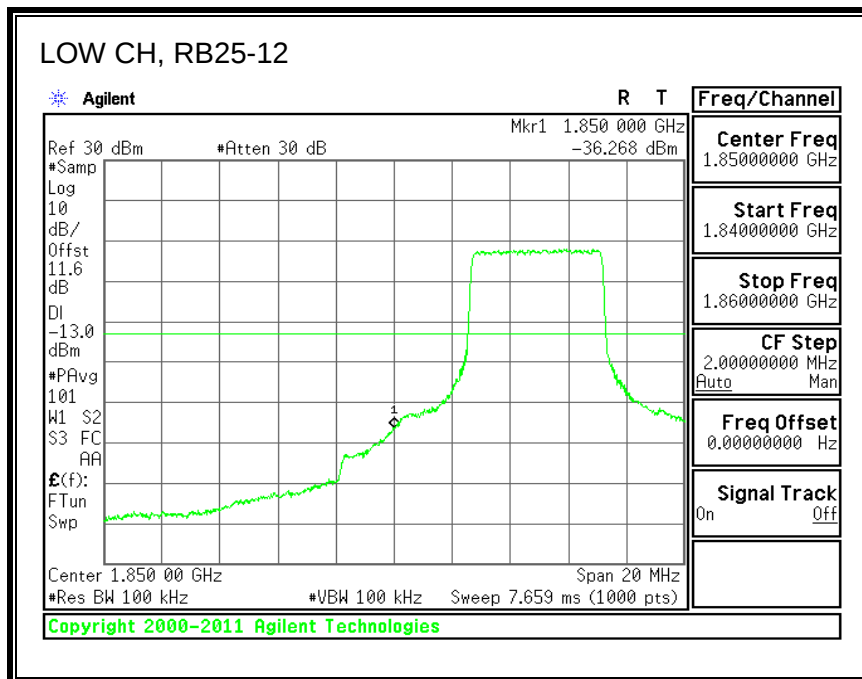
HIGH CH, RB25-0

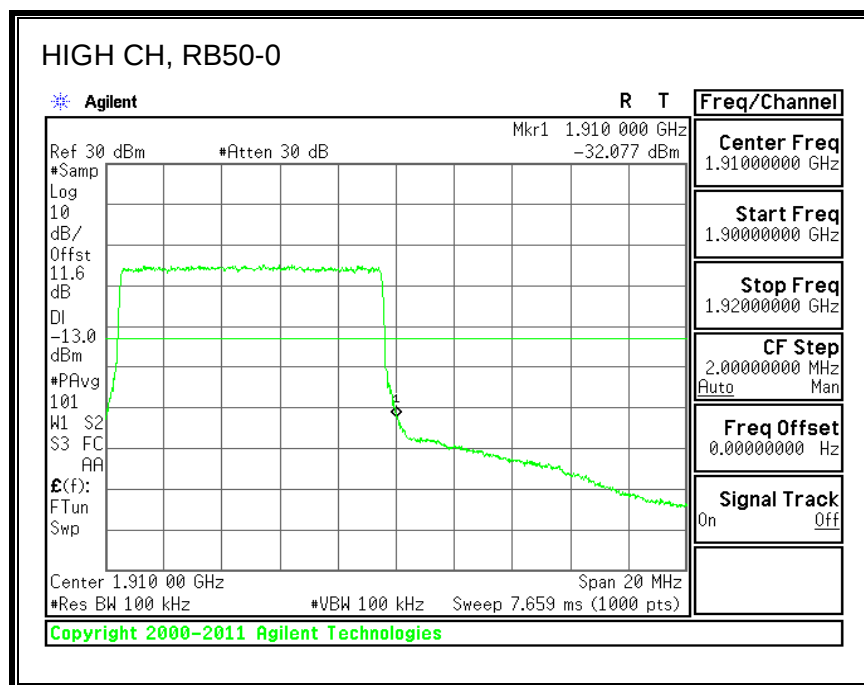
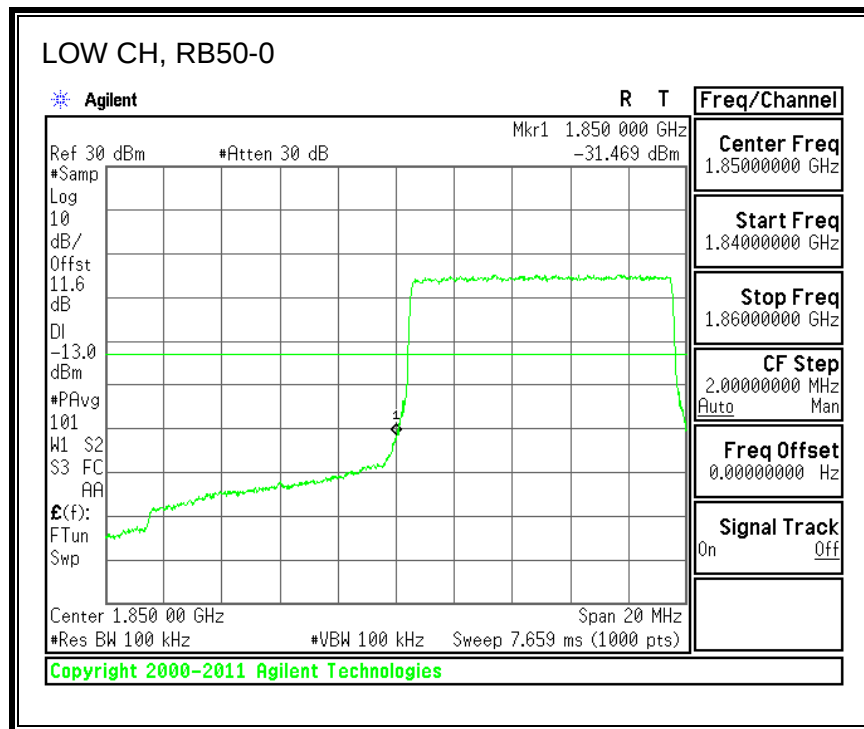


QPSK, (10.0 MHz BAND WIDTH)

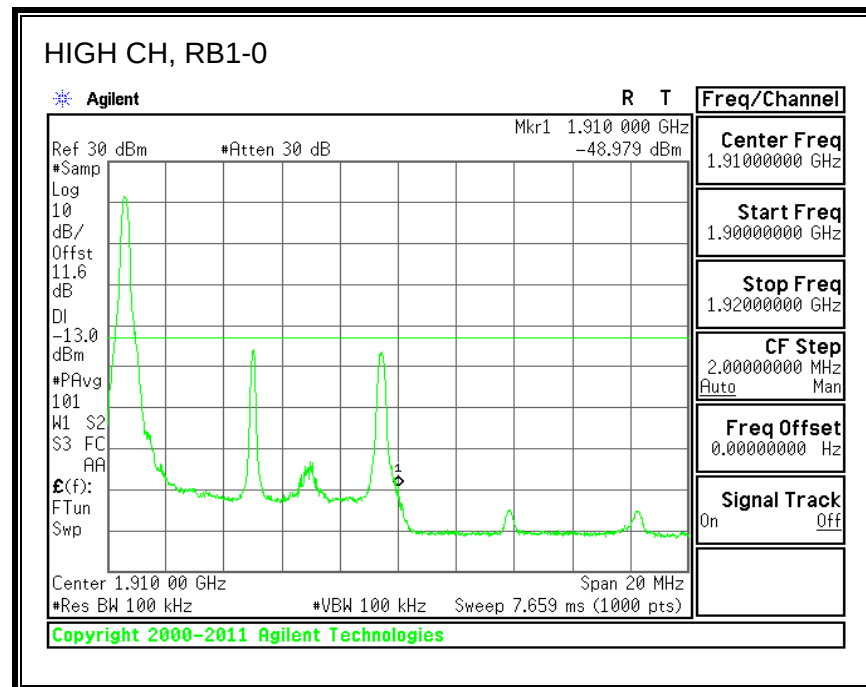
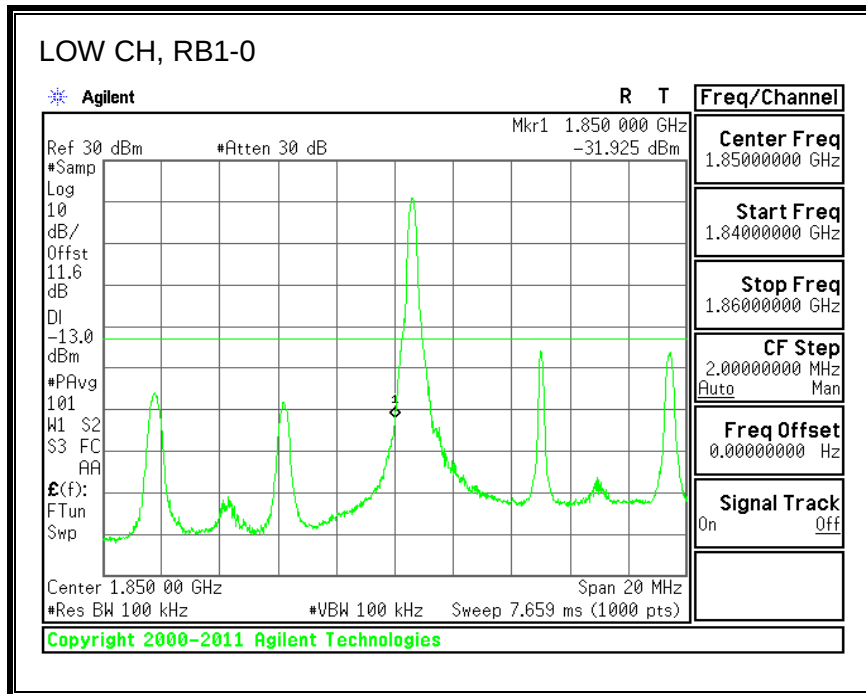


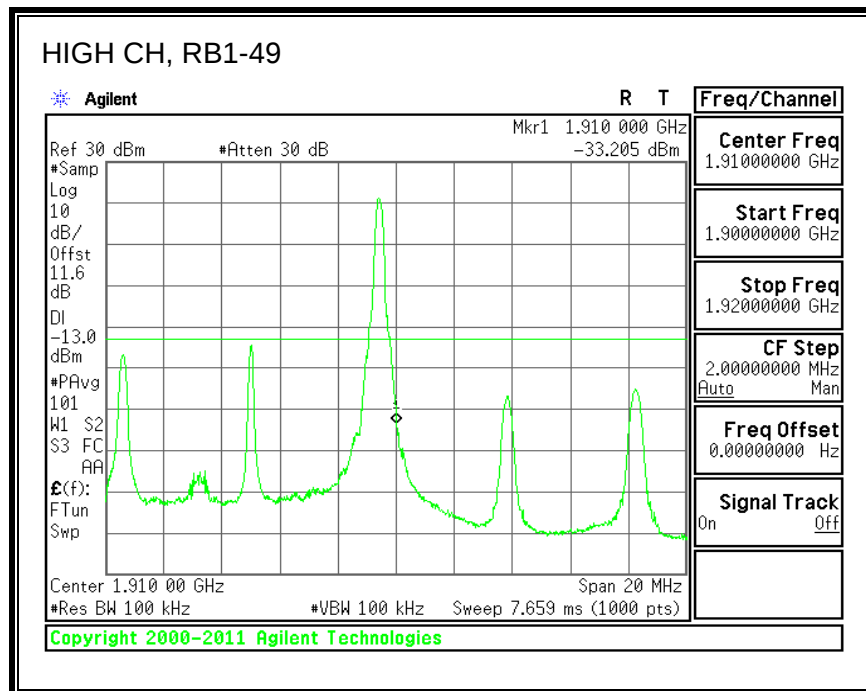
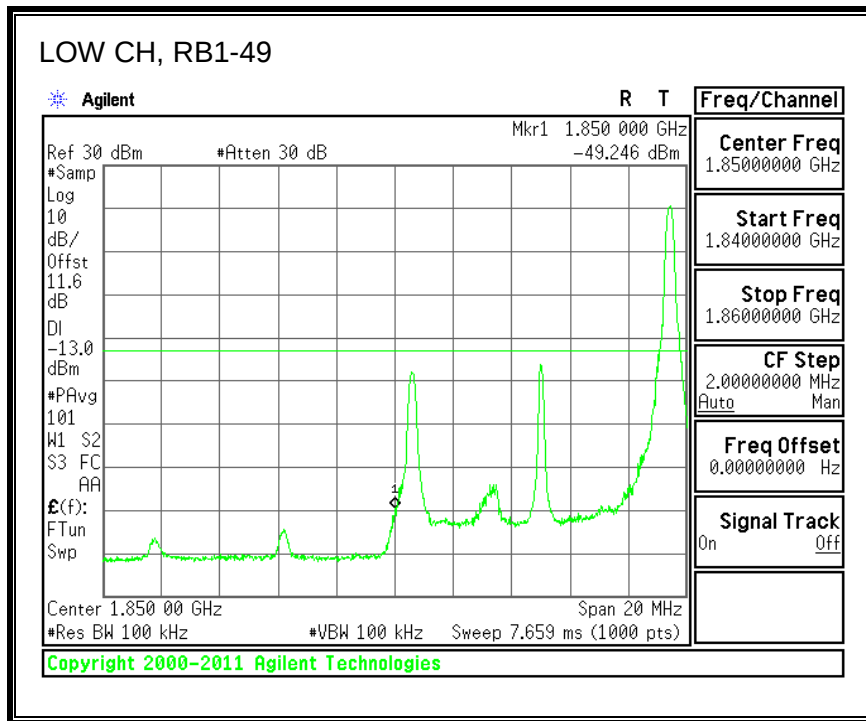


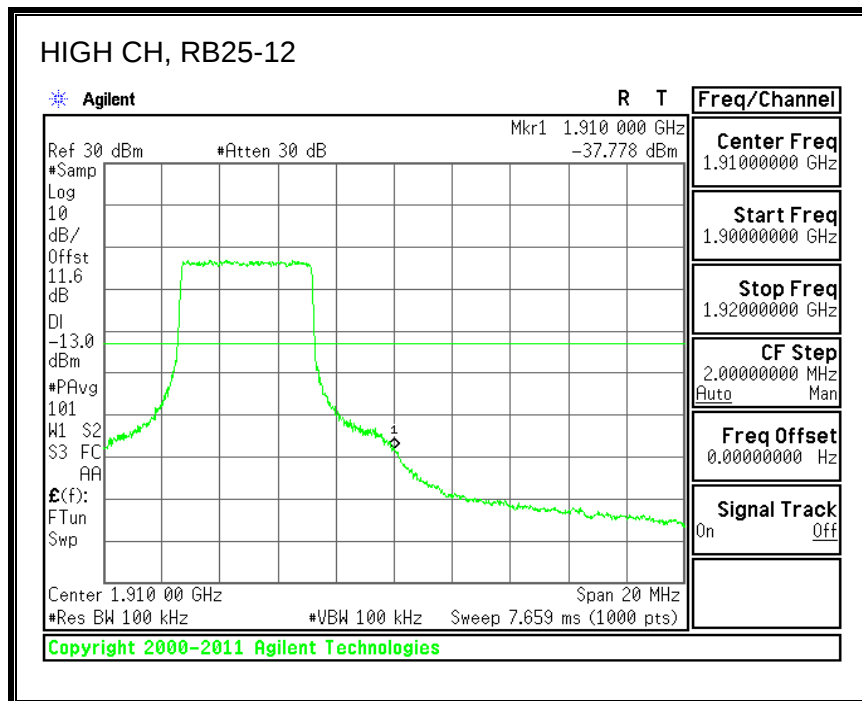
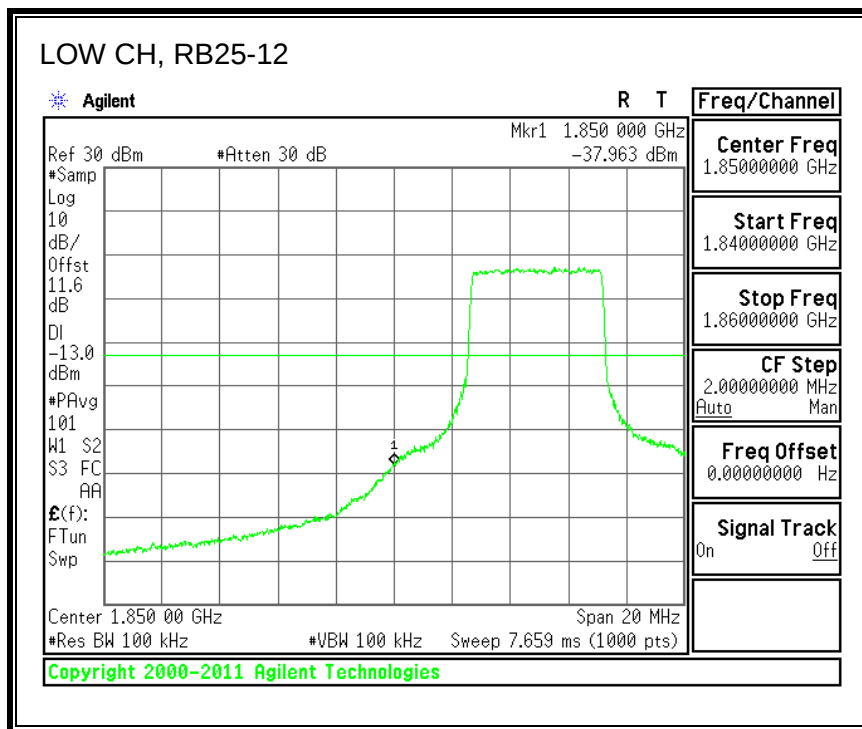


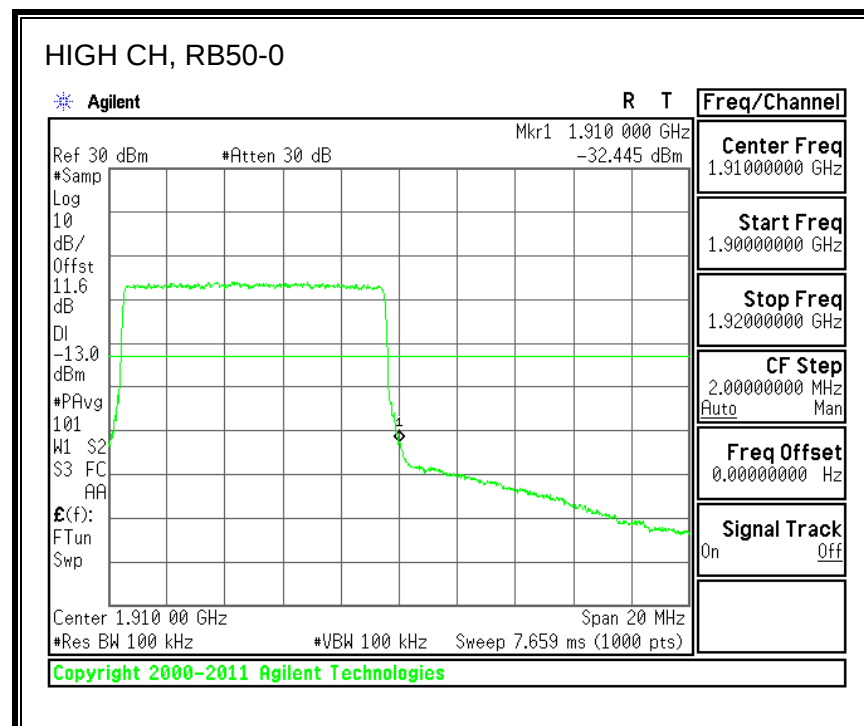
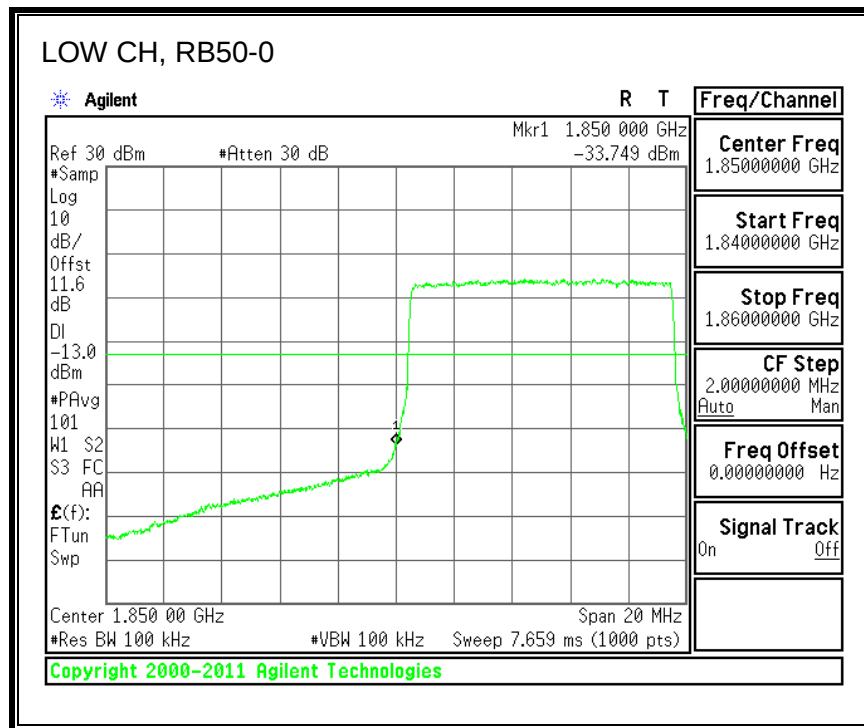


16QAM, (10.0 MHz BAND WIDTH)

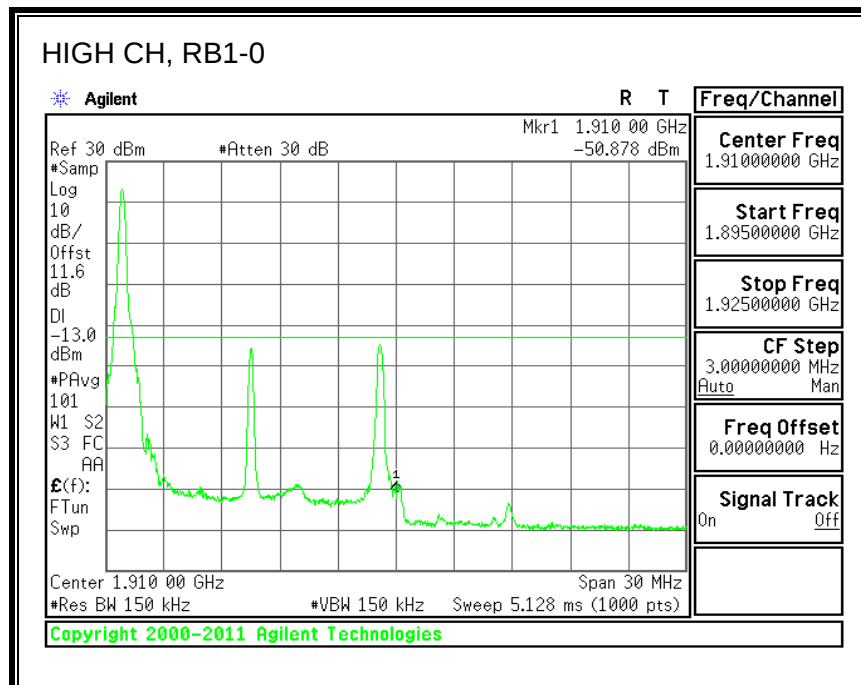
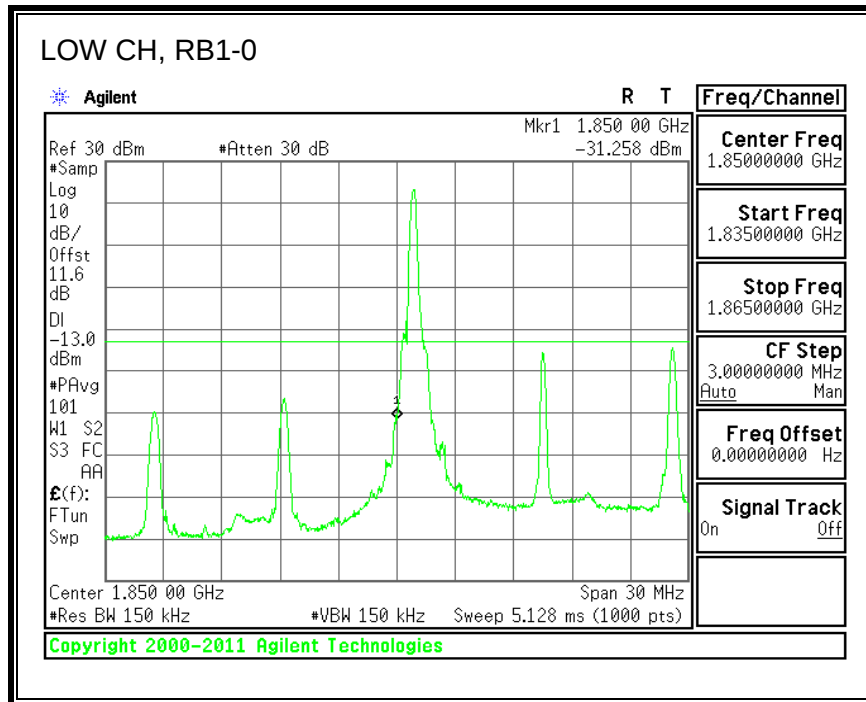


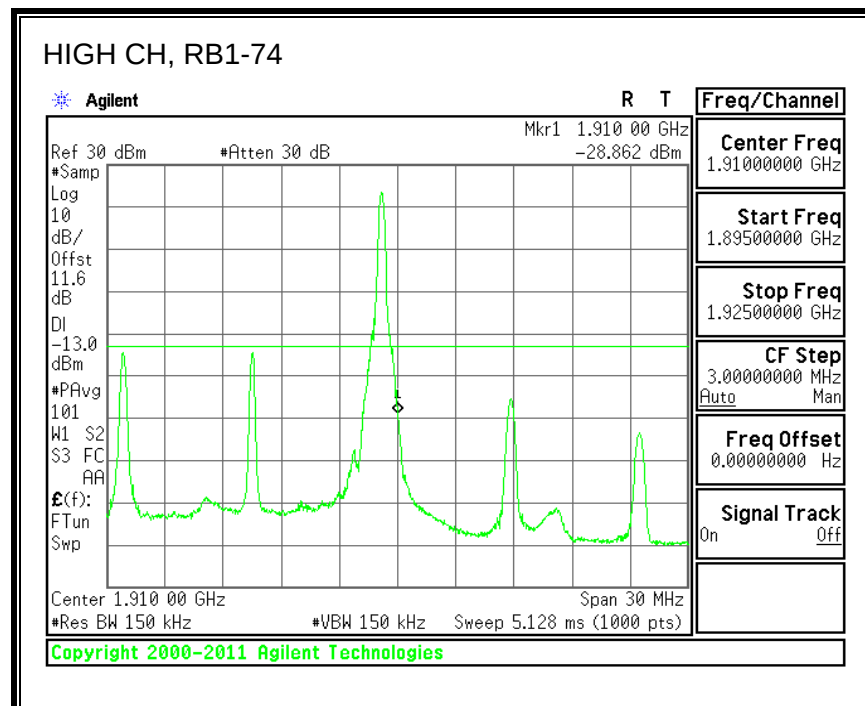
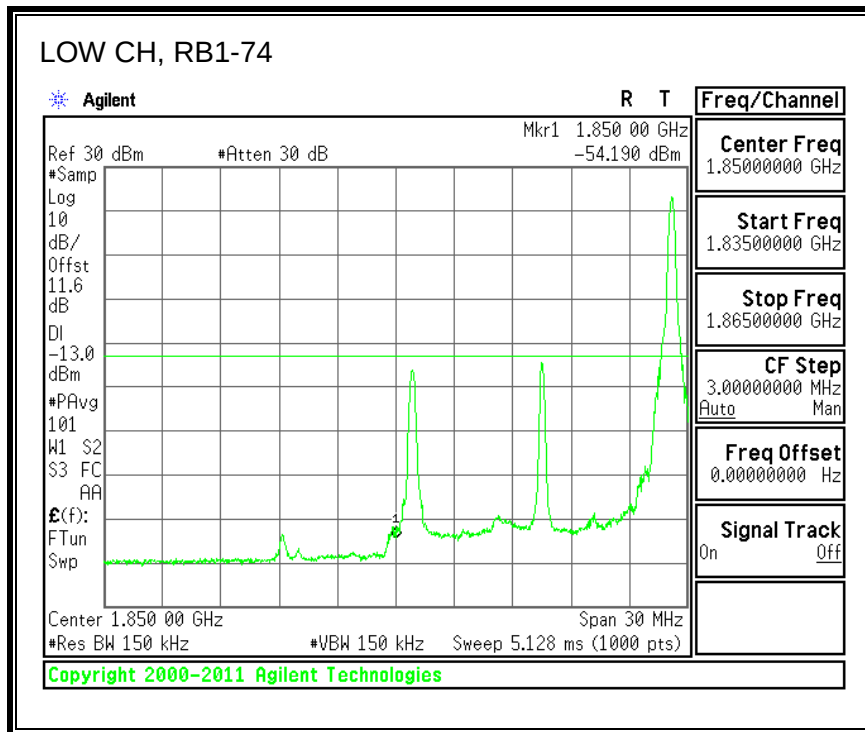


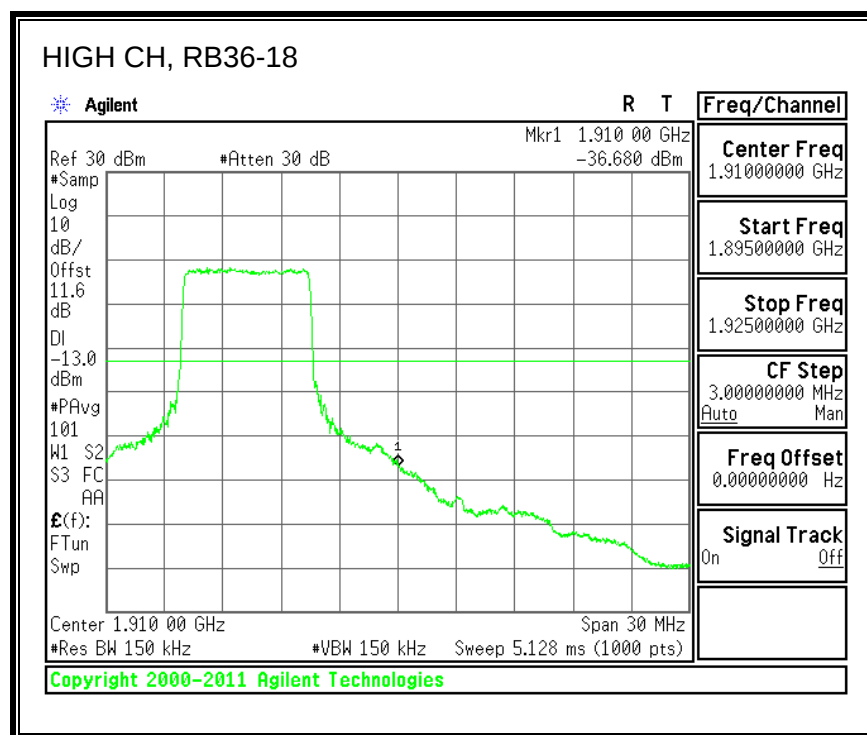
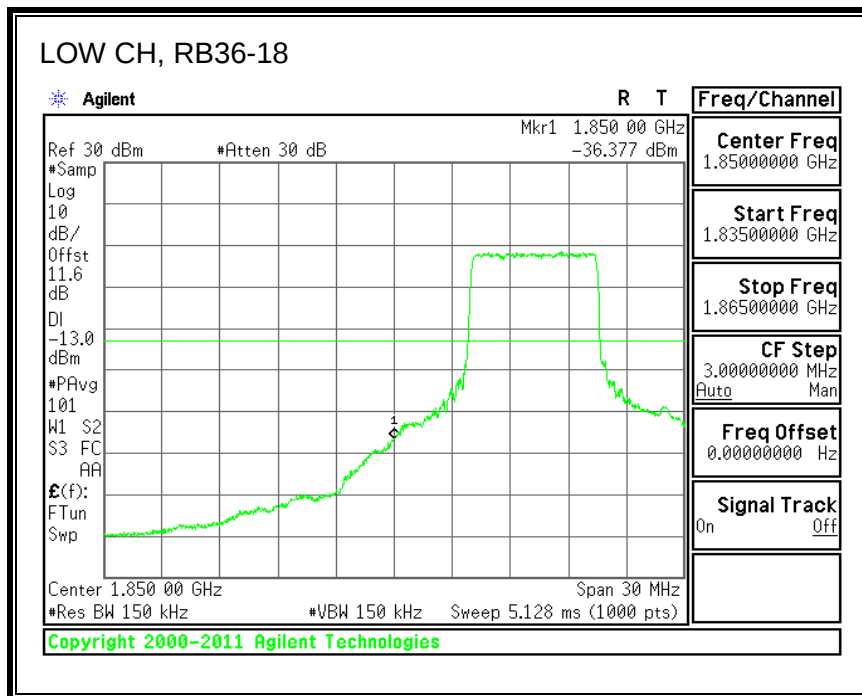


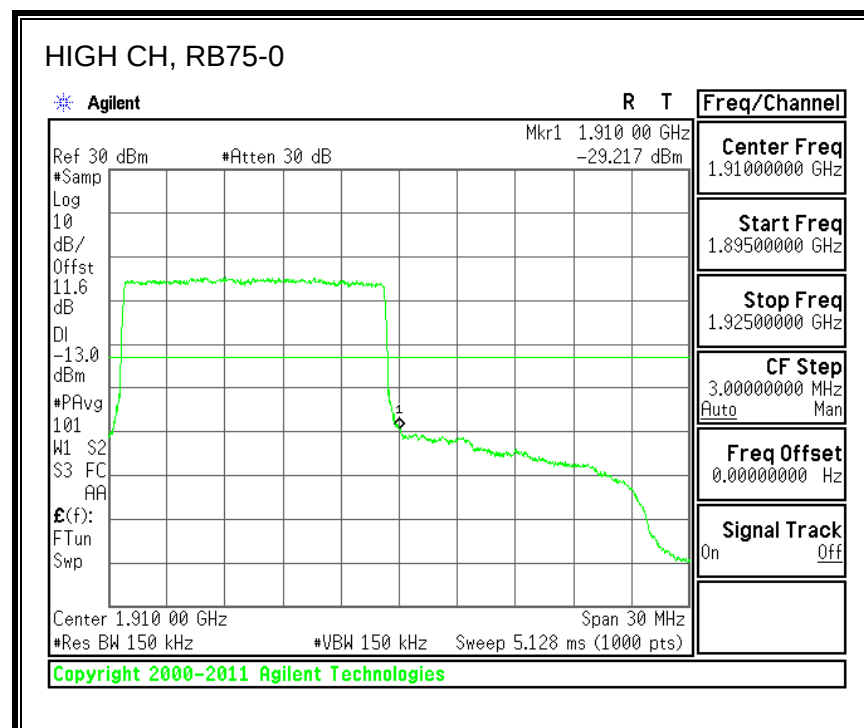
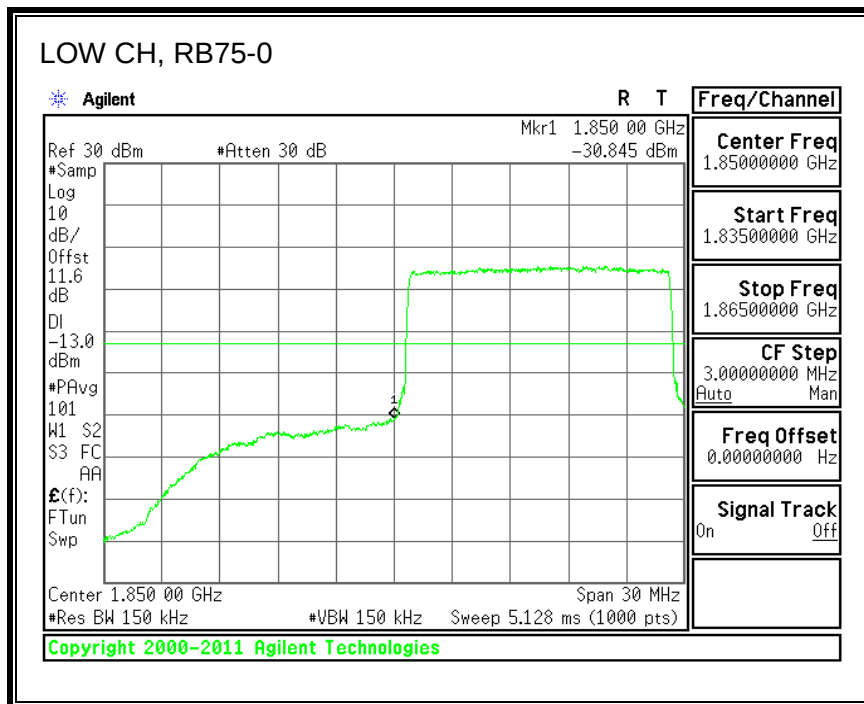


QPSK, (15.0 MHz BAND WIDTH)

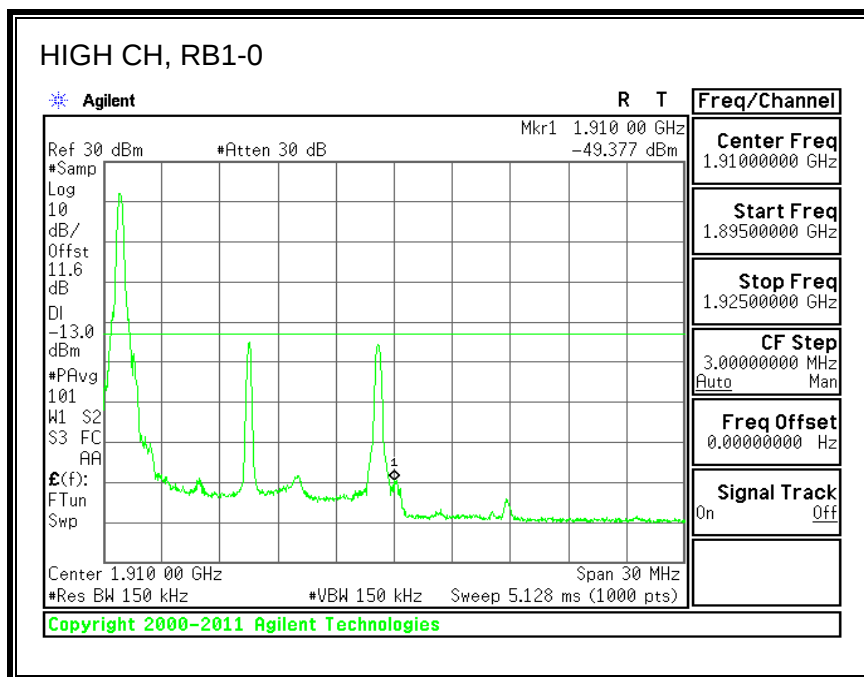
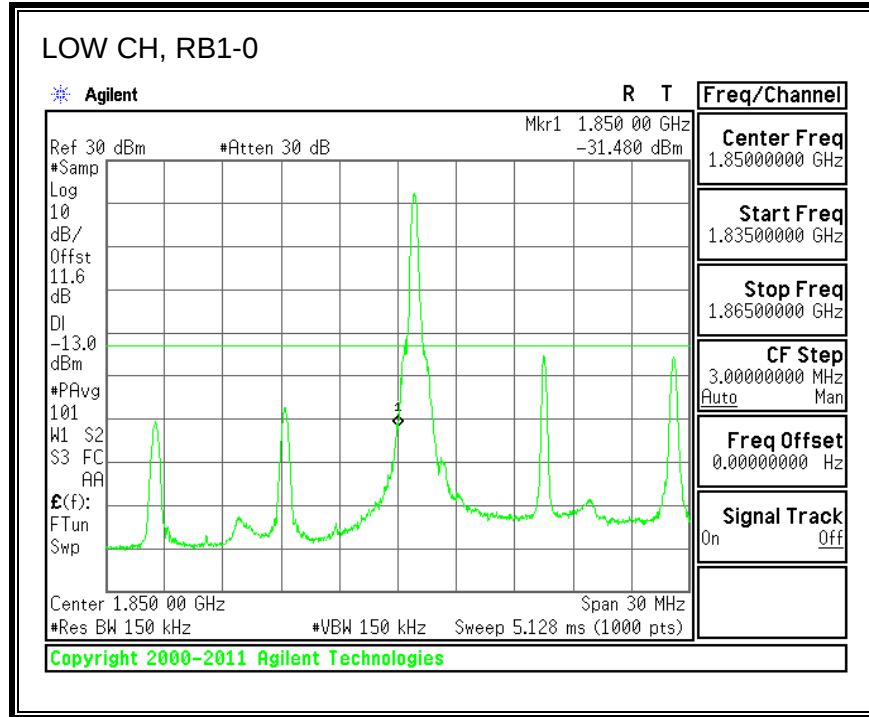


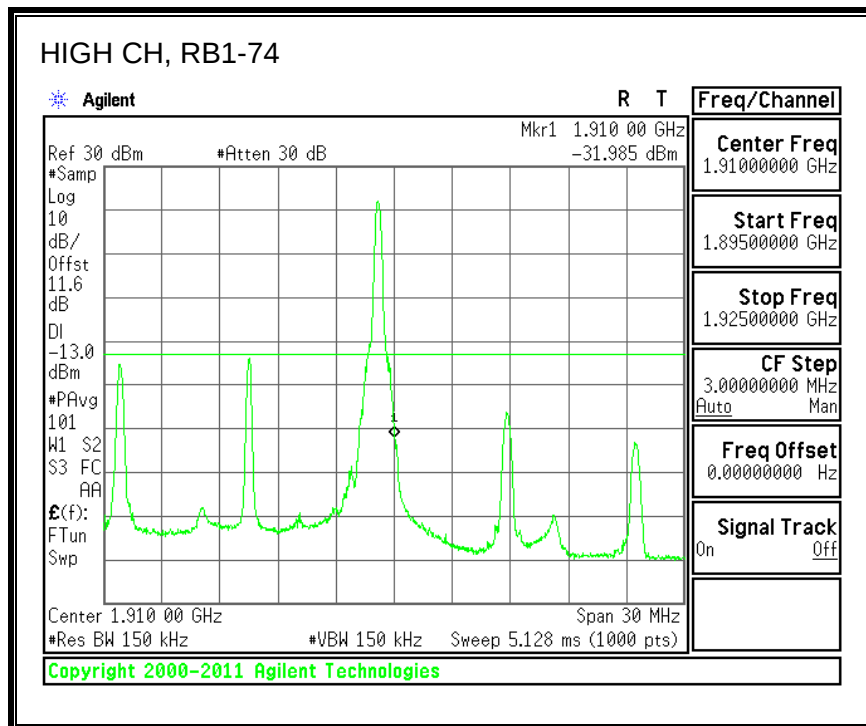
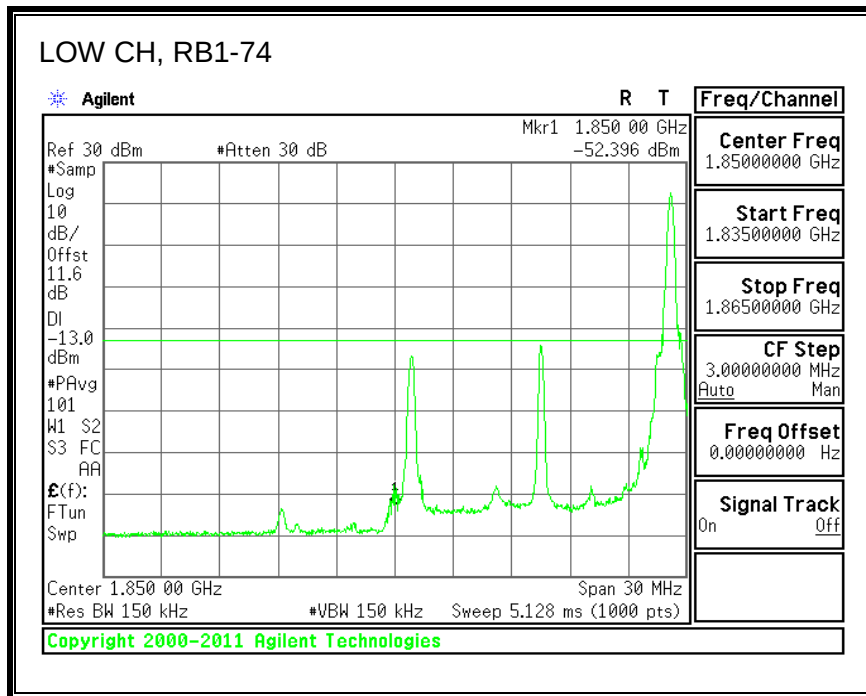


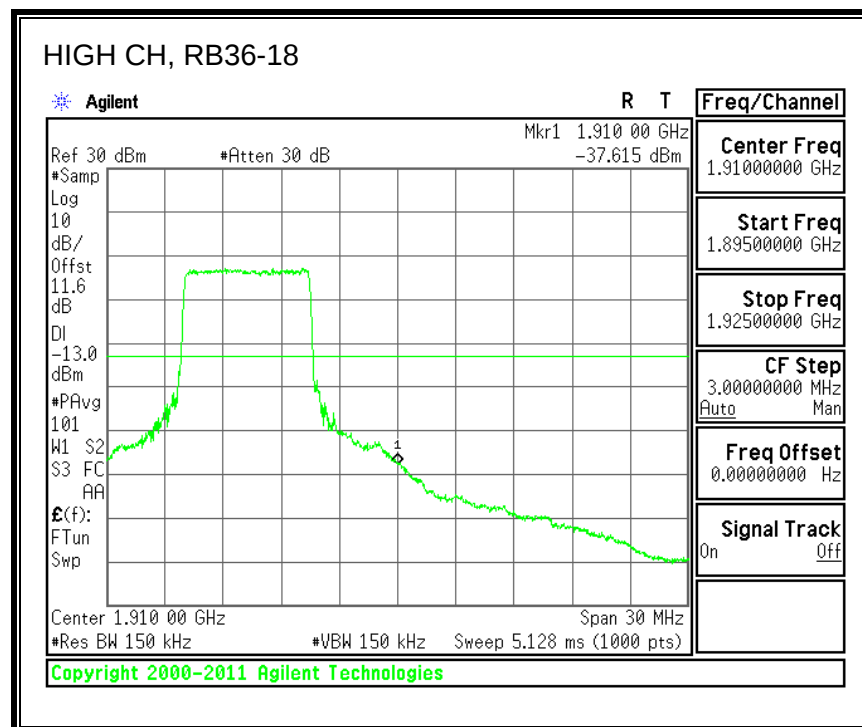
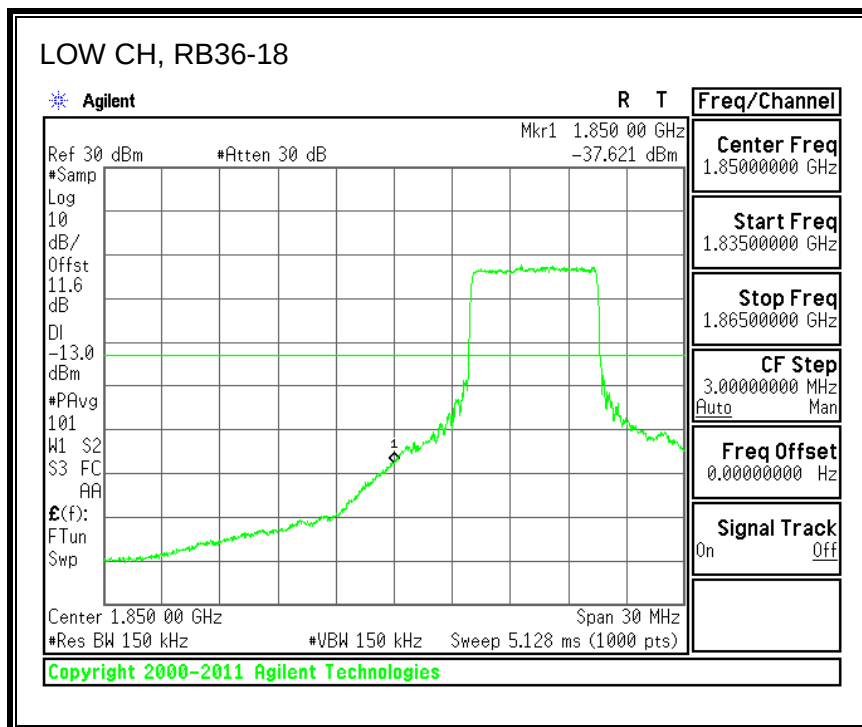


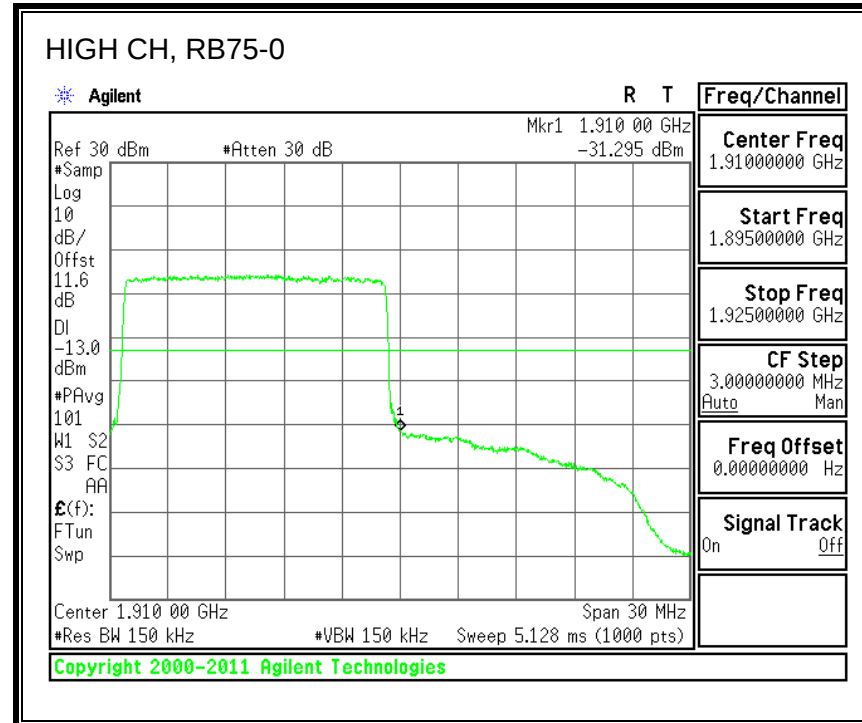
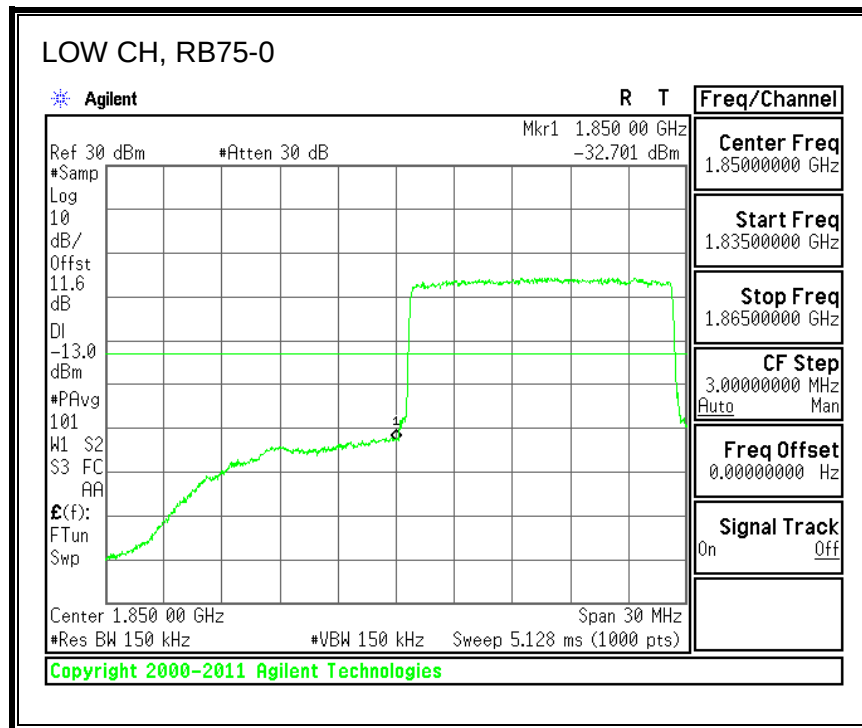


16QAM, (15.0 MHz BAND WIDTH)

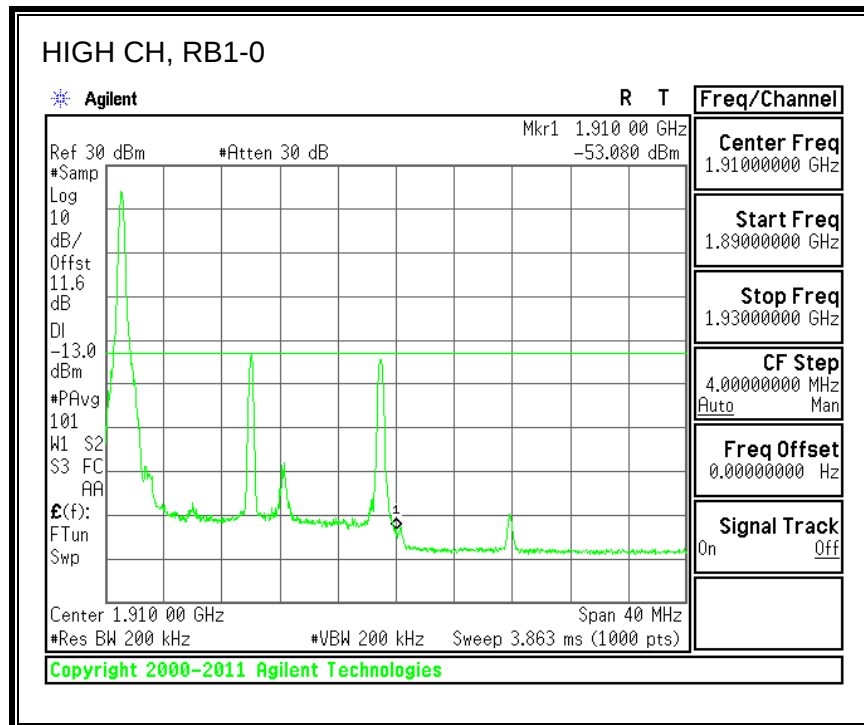
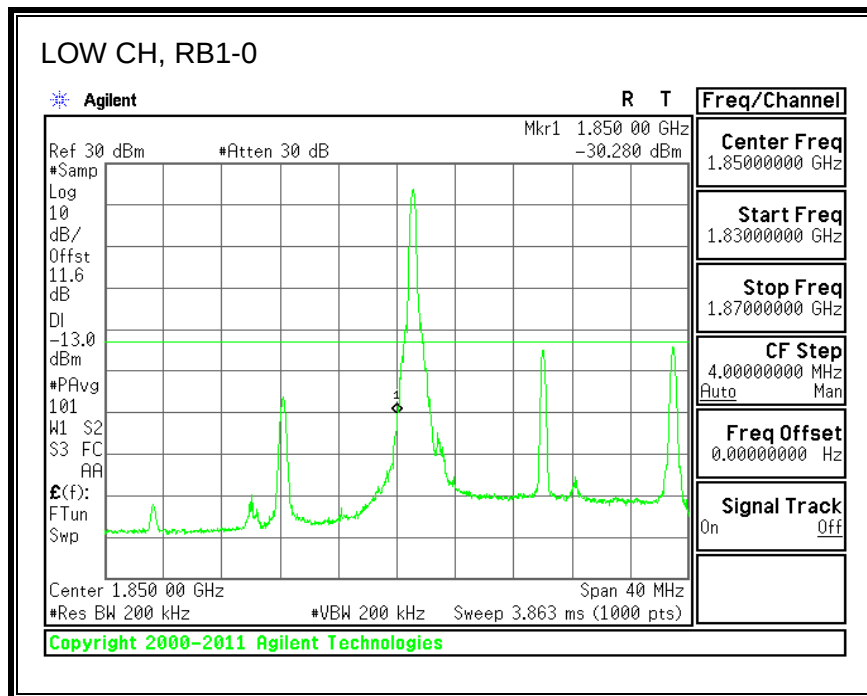


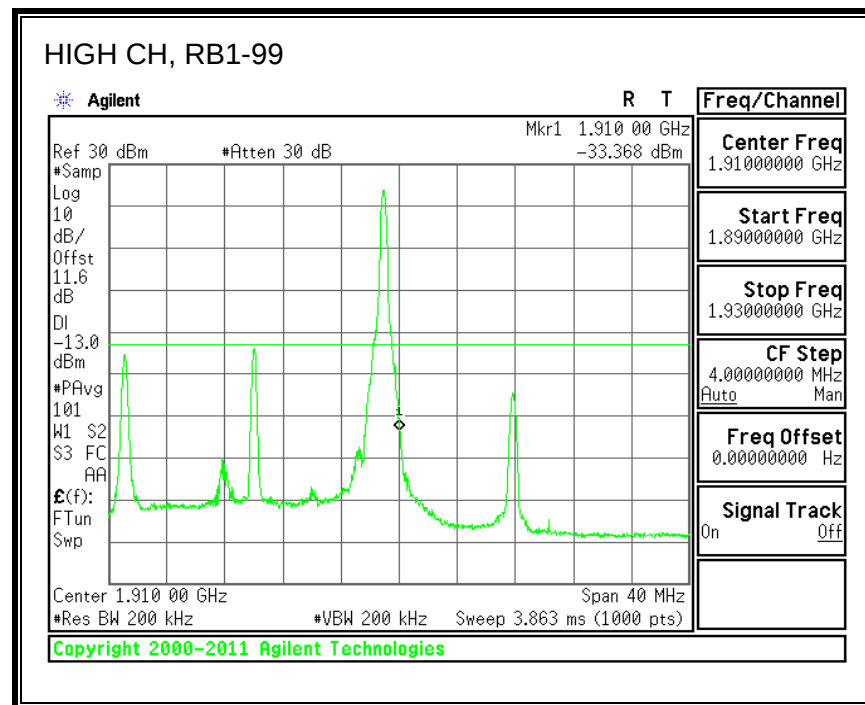
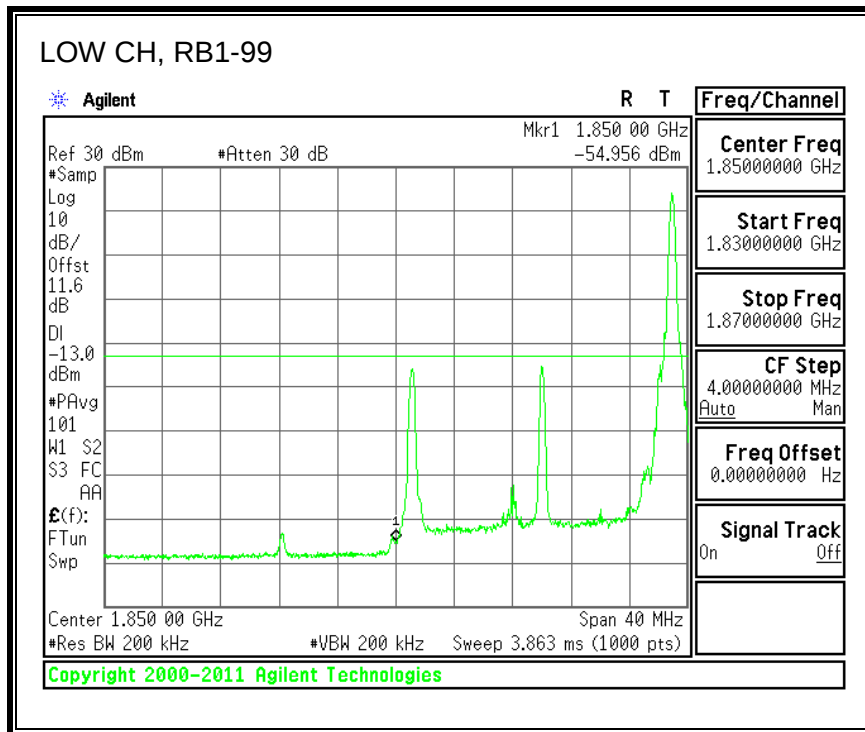


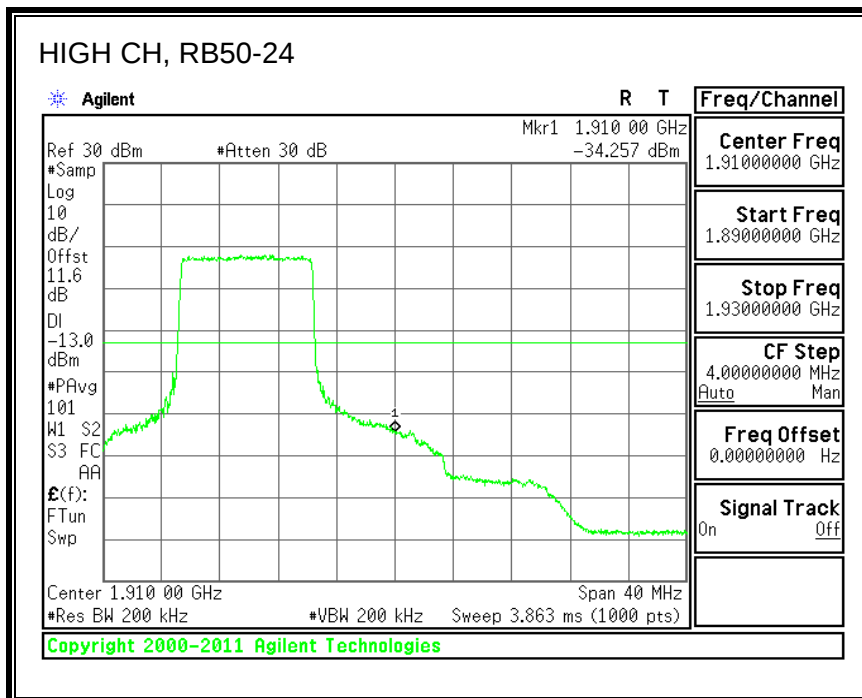
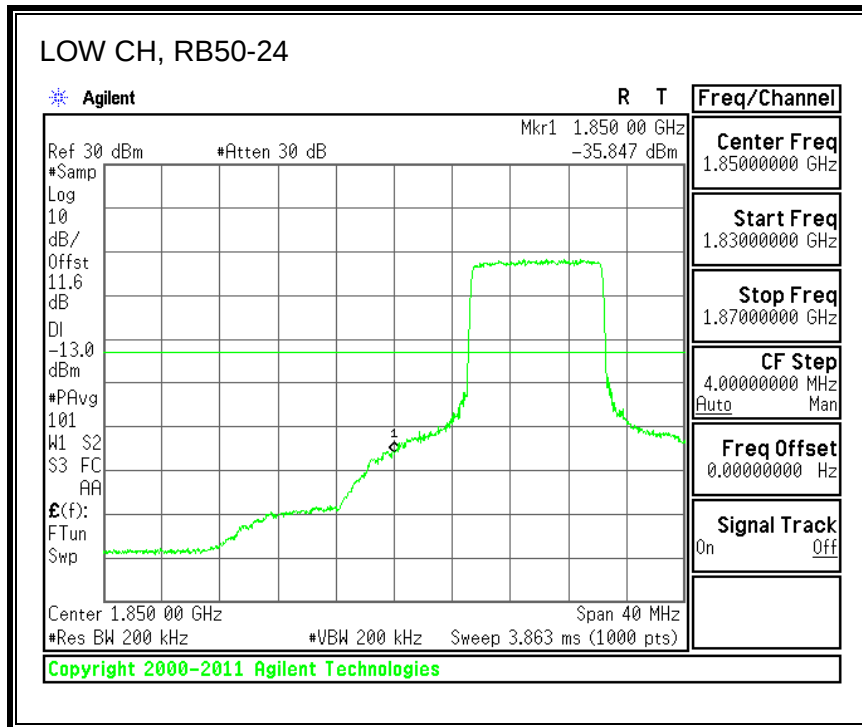


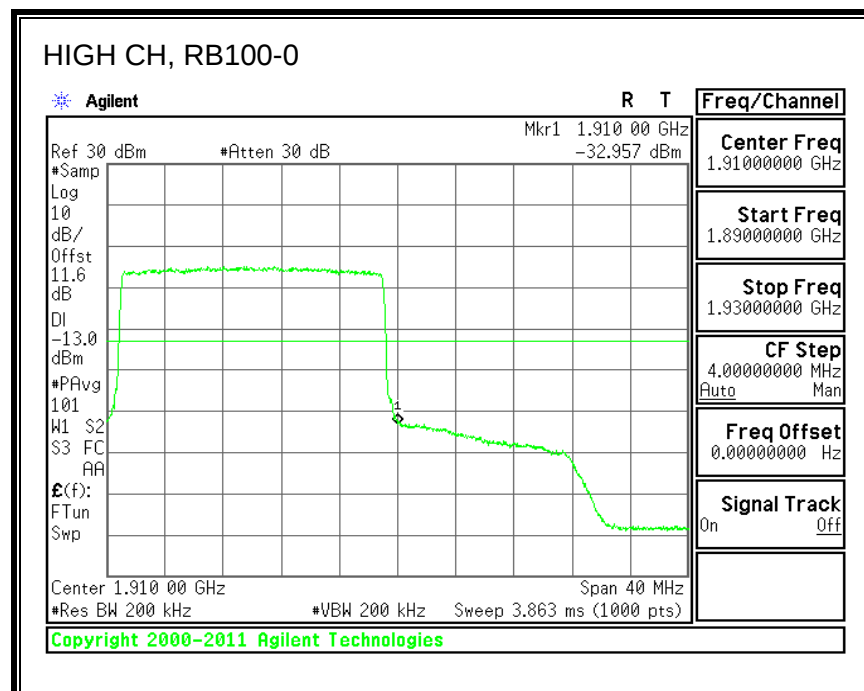
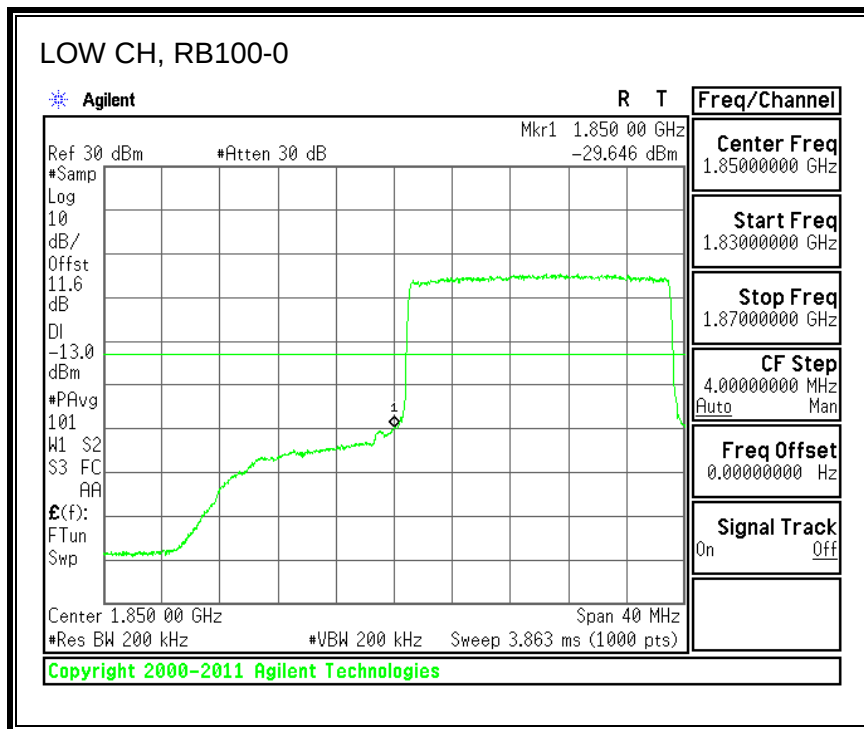


QPSK, (20.0 MHz BAND WIDTH)

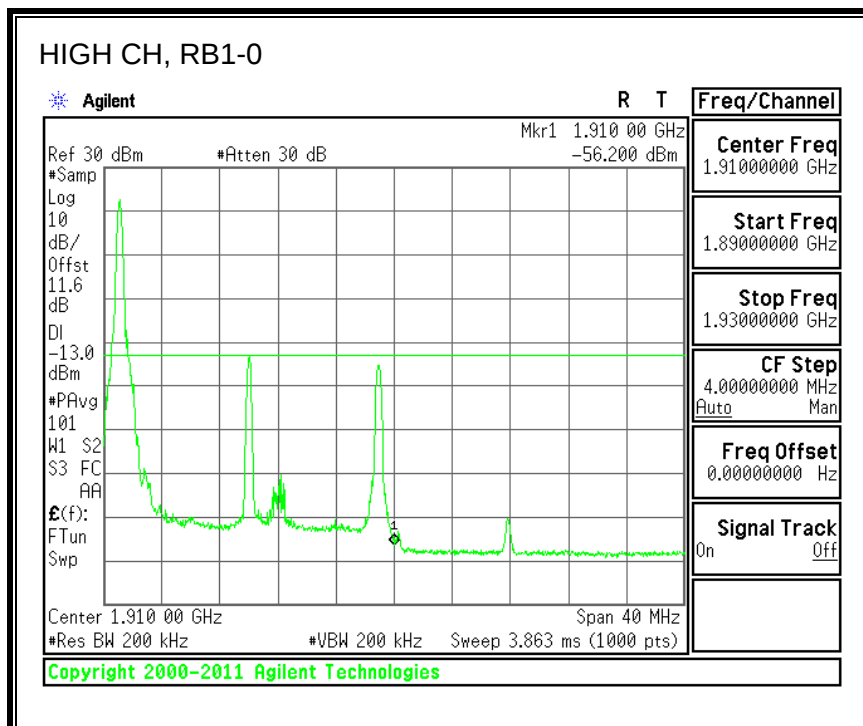
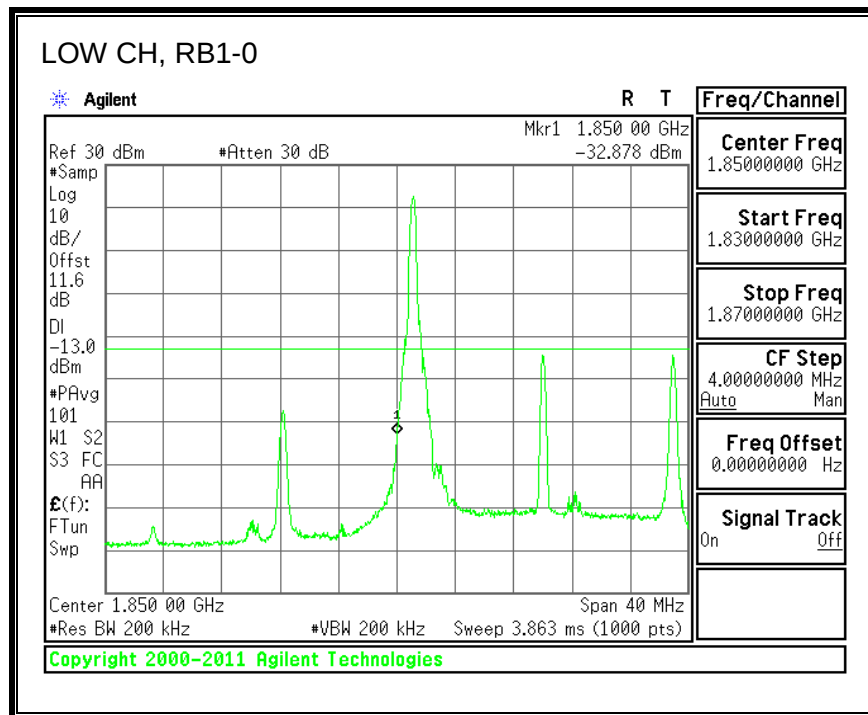


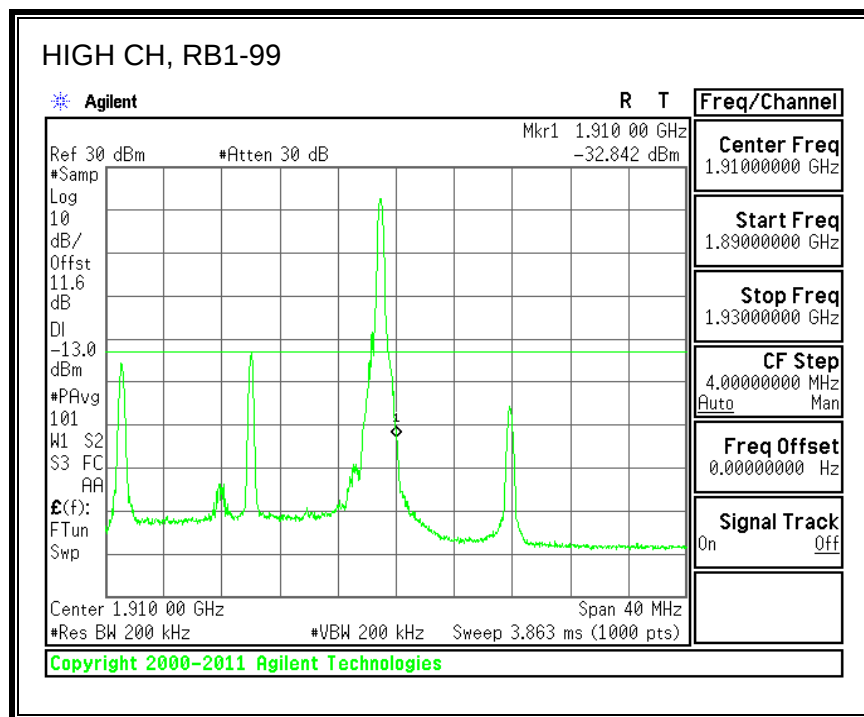
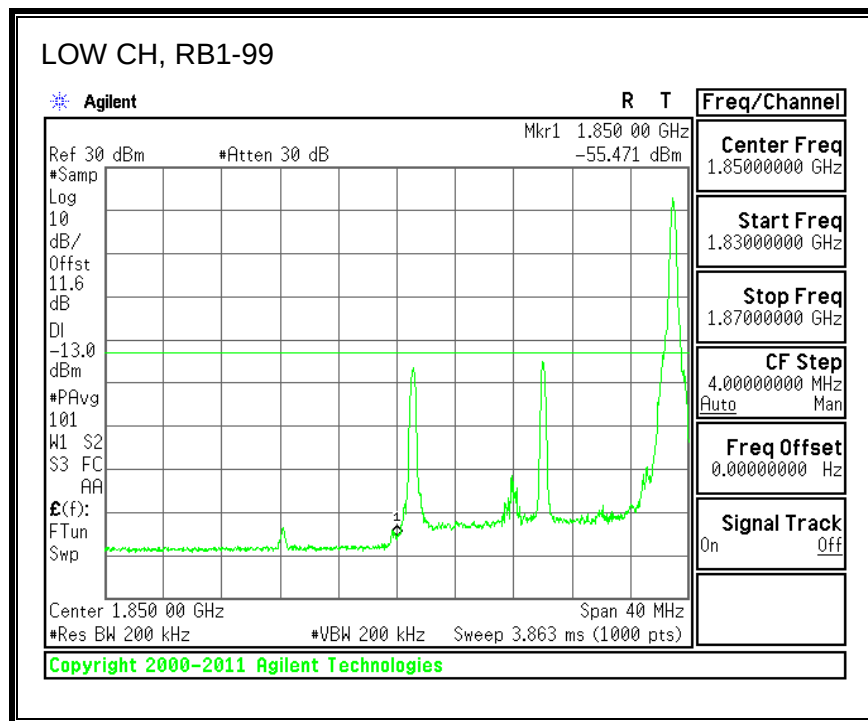


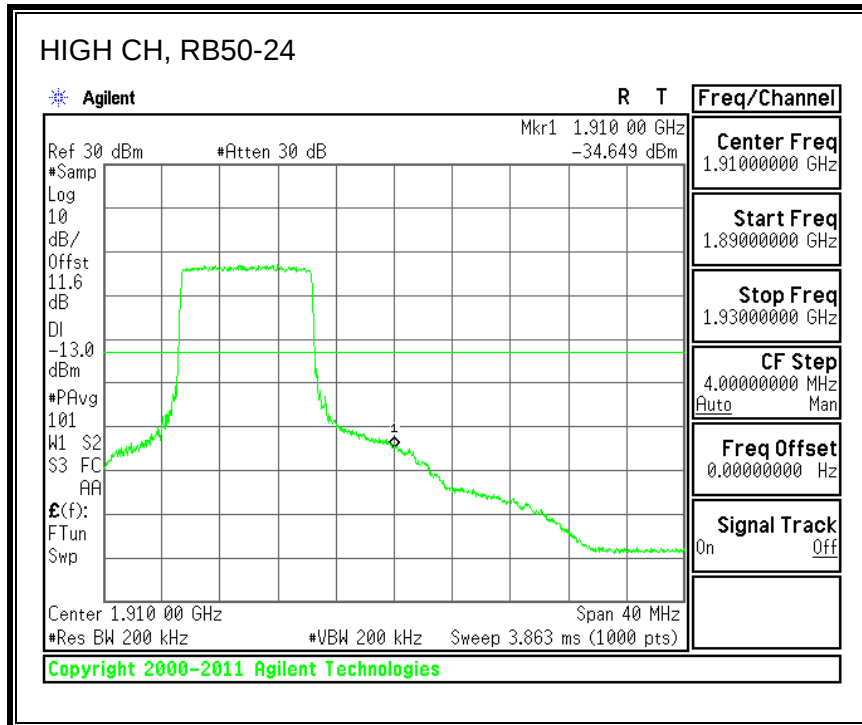
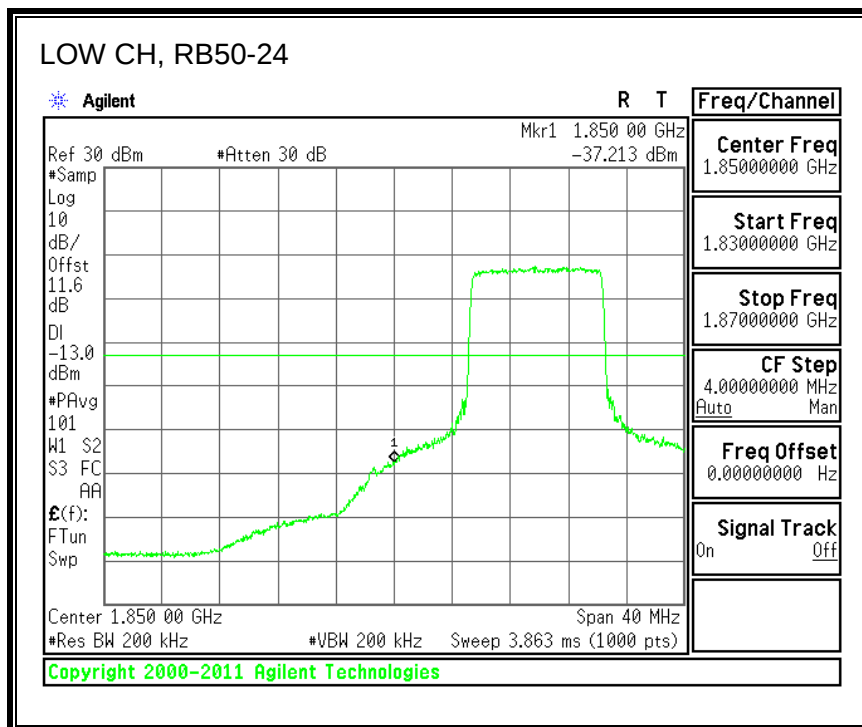


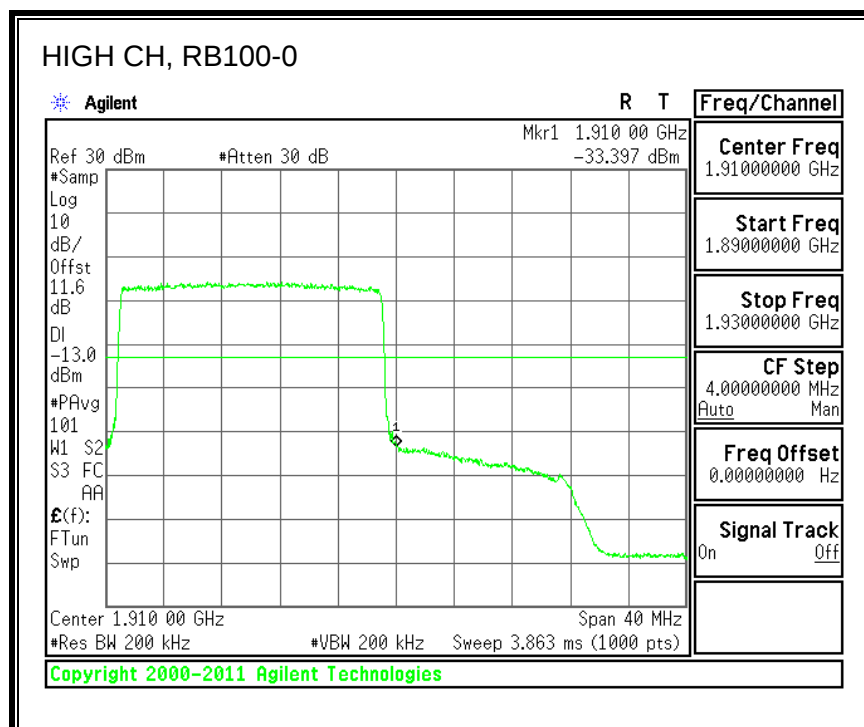
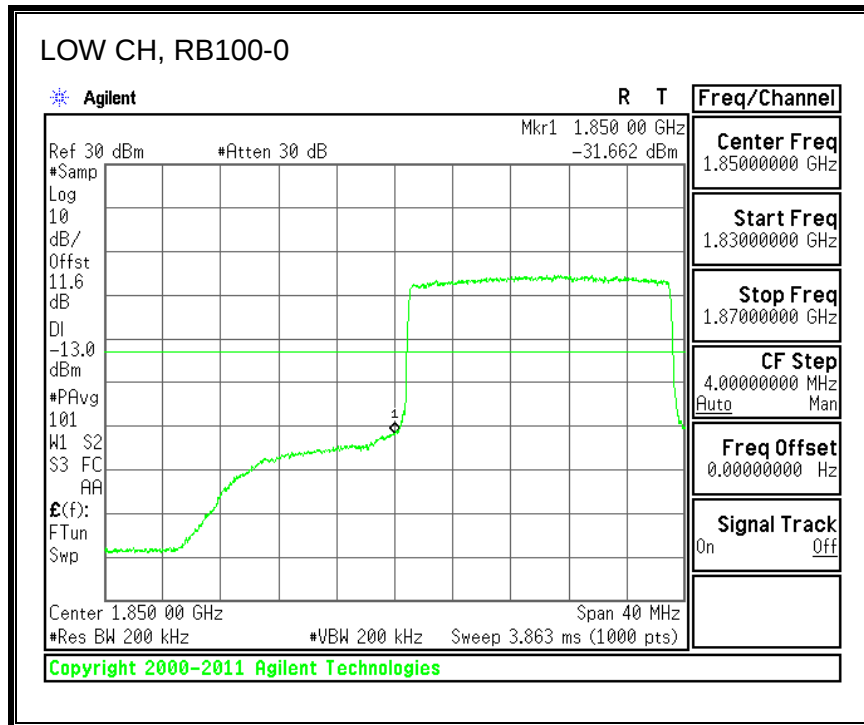


16QAM, (20.0 MHz BAND WIDTH)



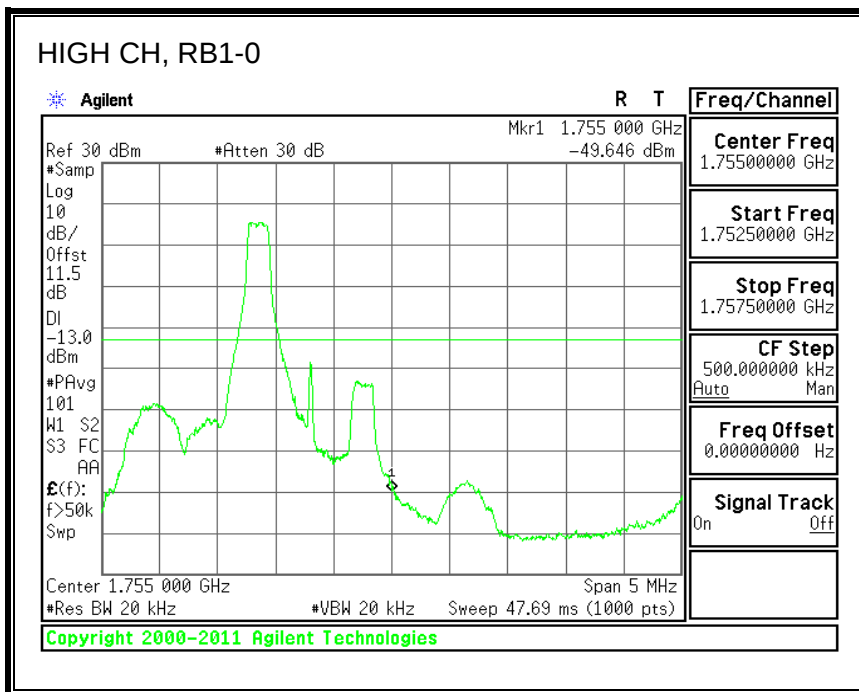
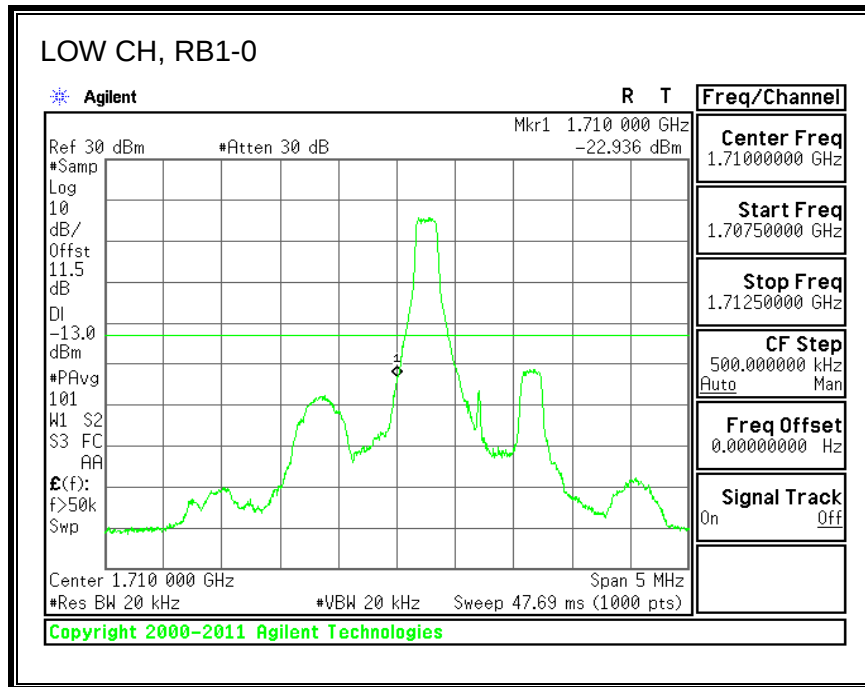


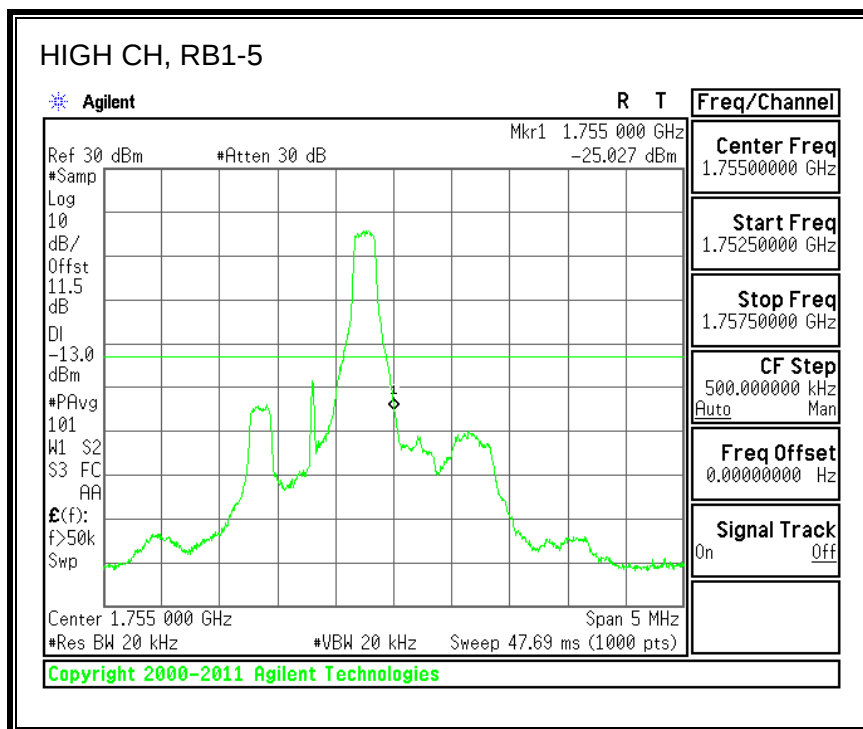
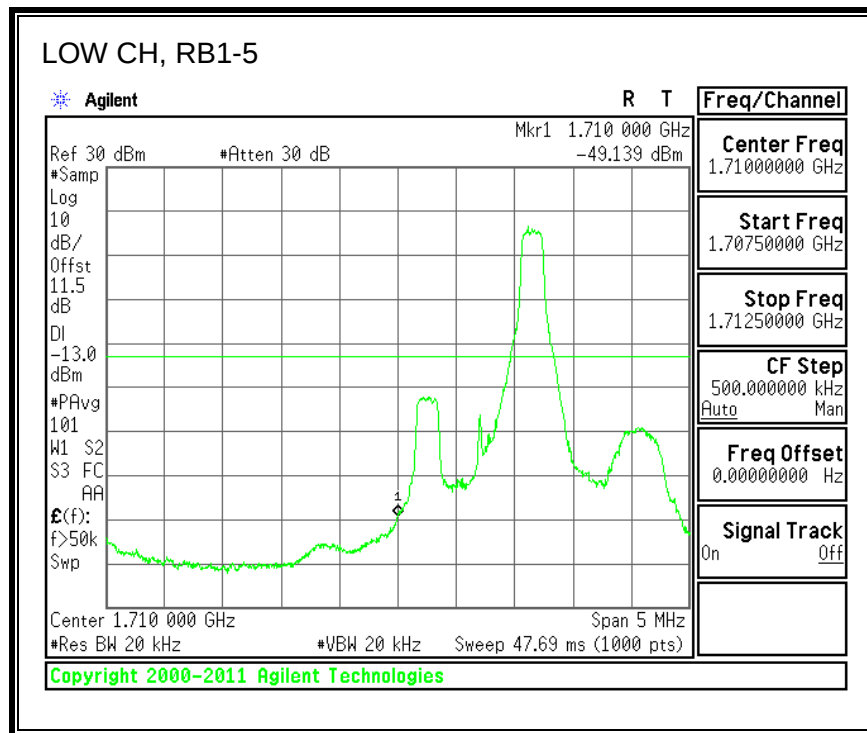


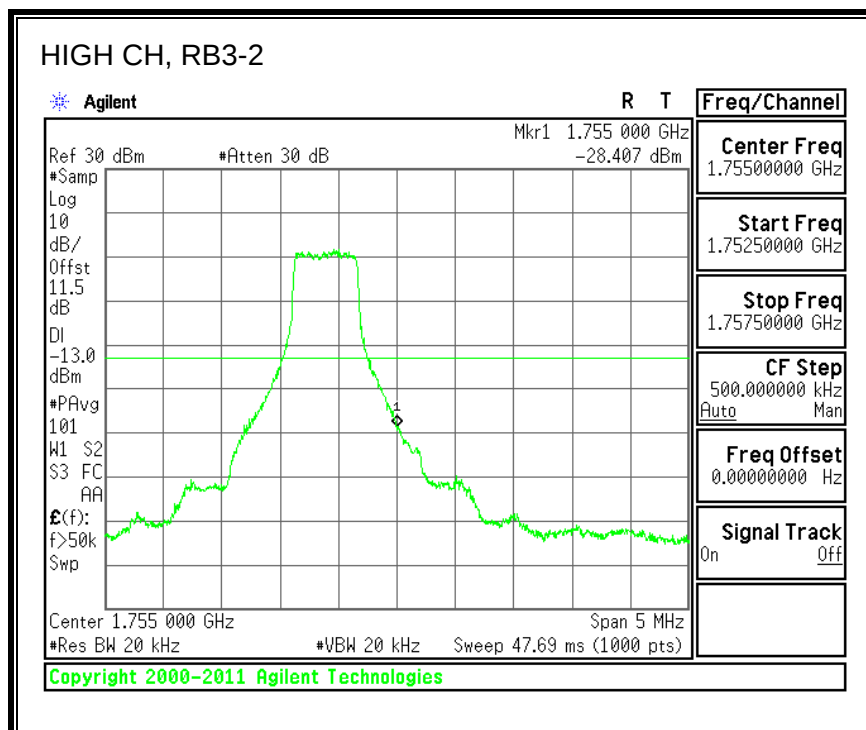
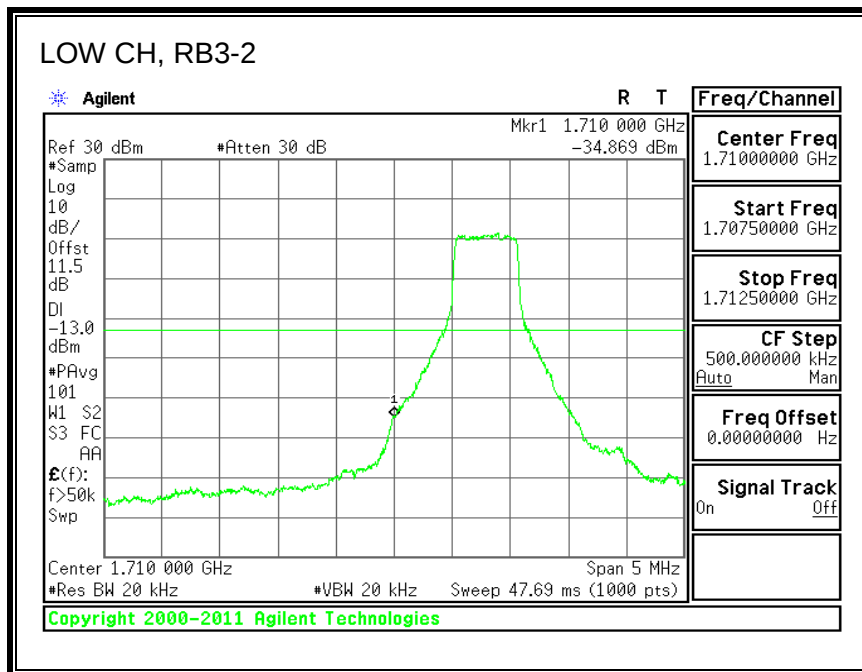


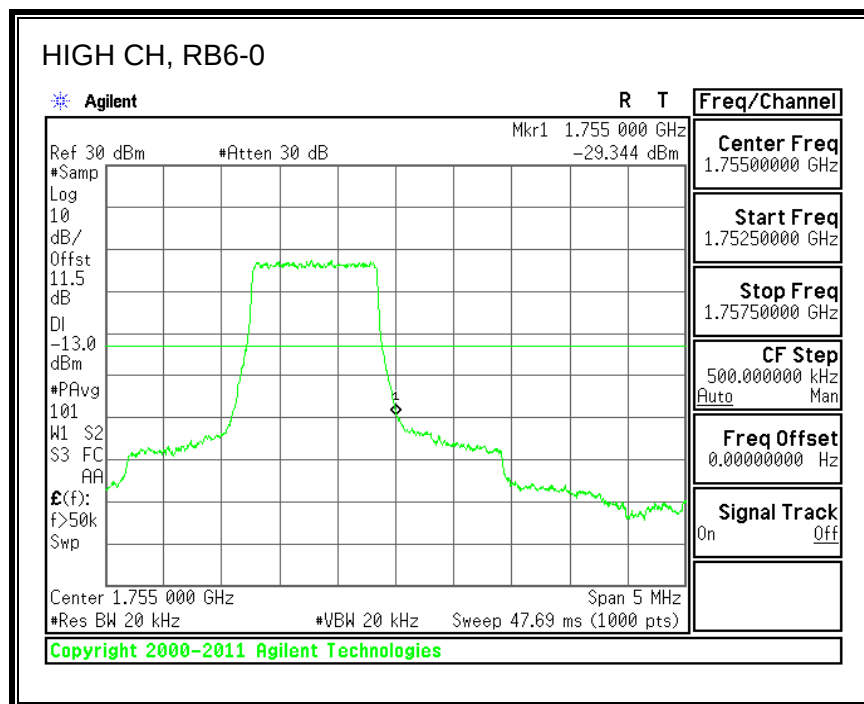
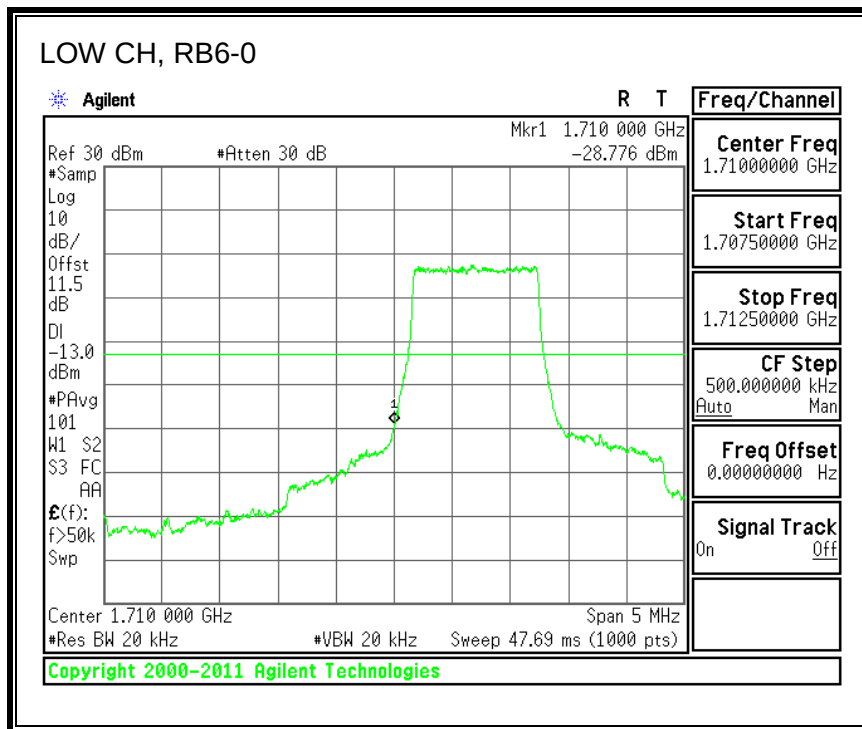
8.2.2. LTE BAND 4 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

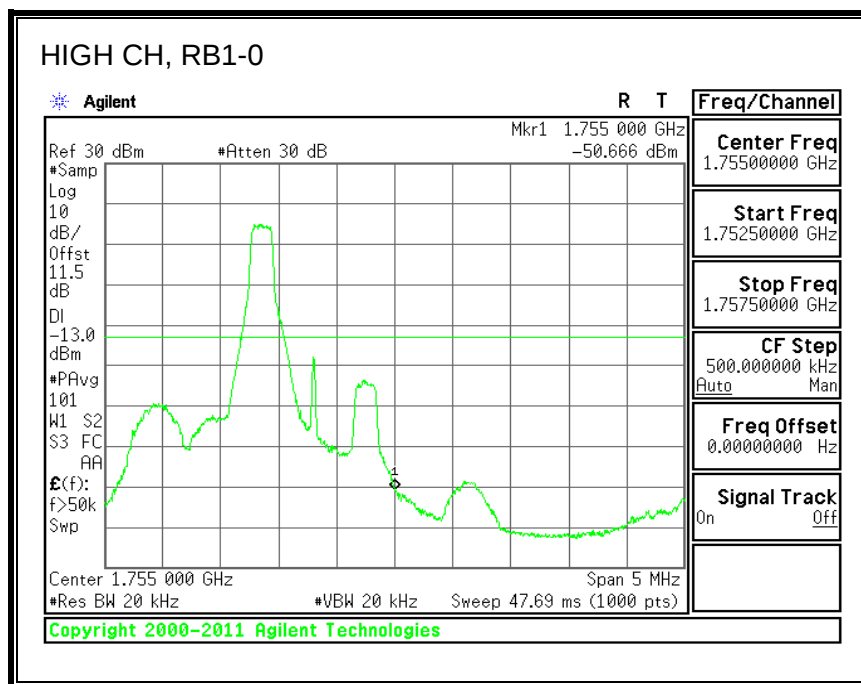
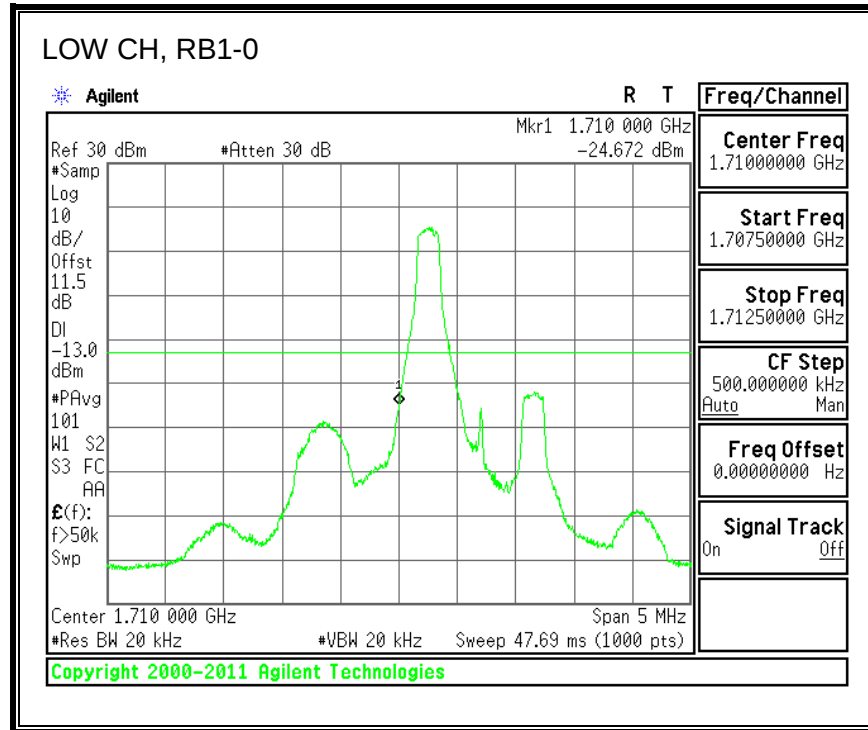


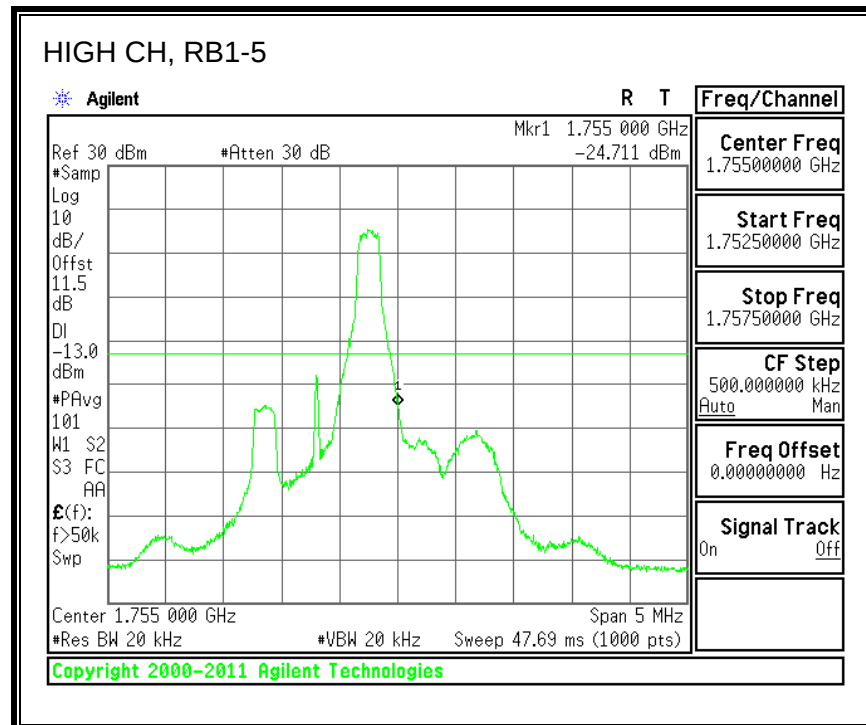
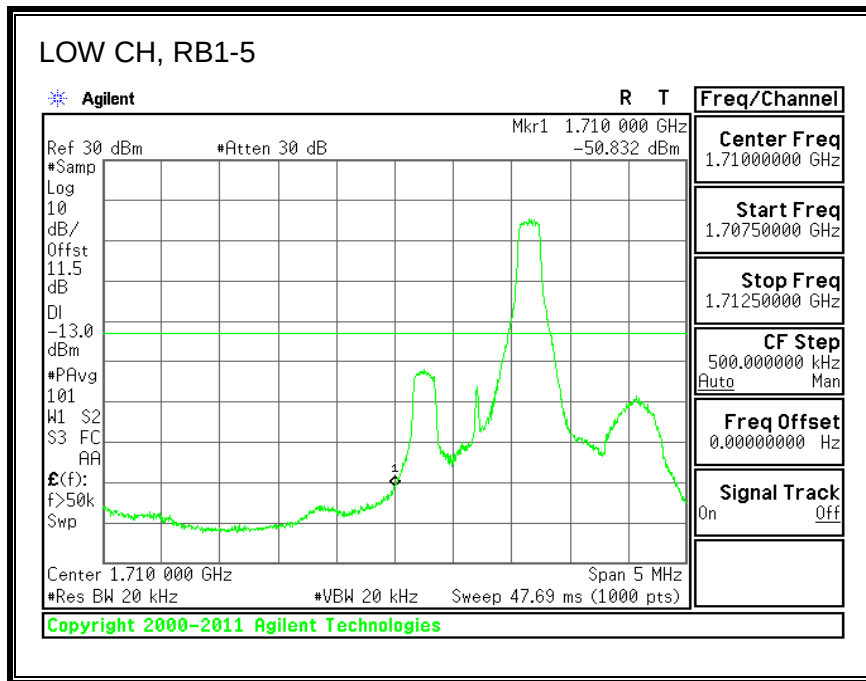


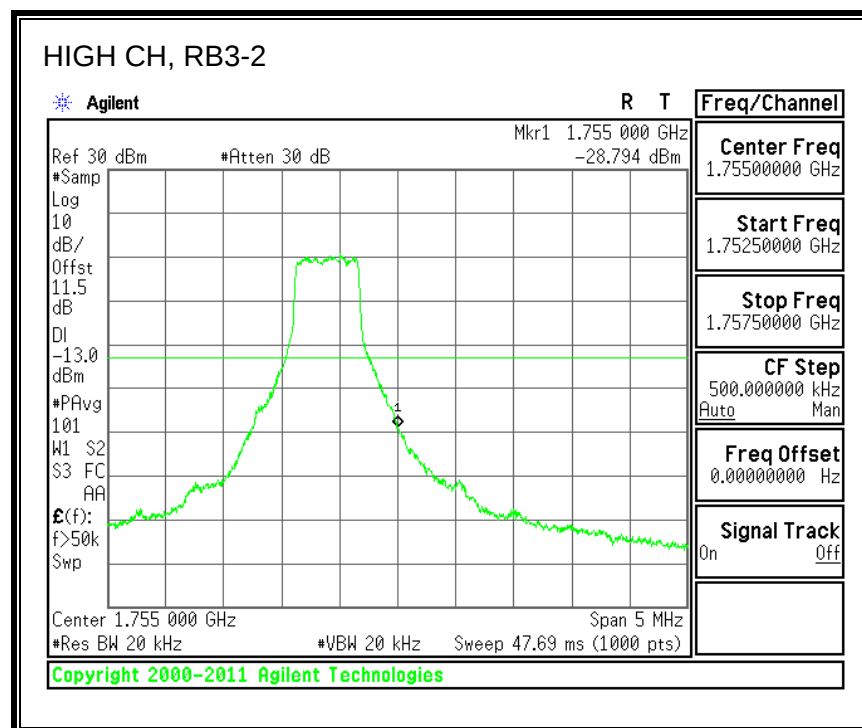
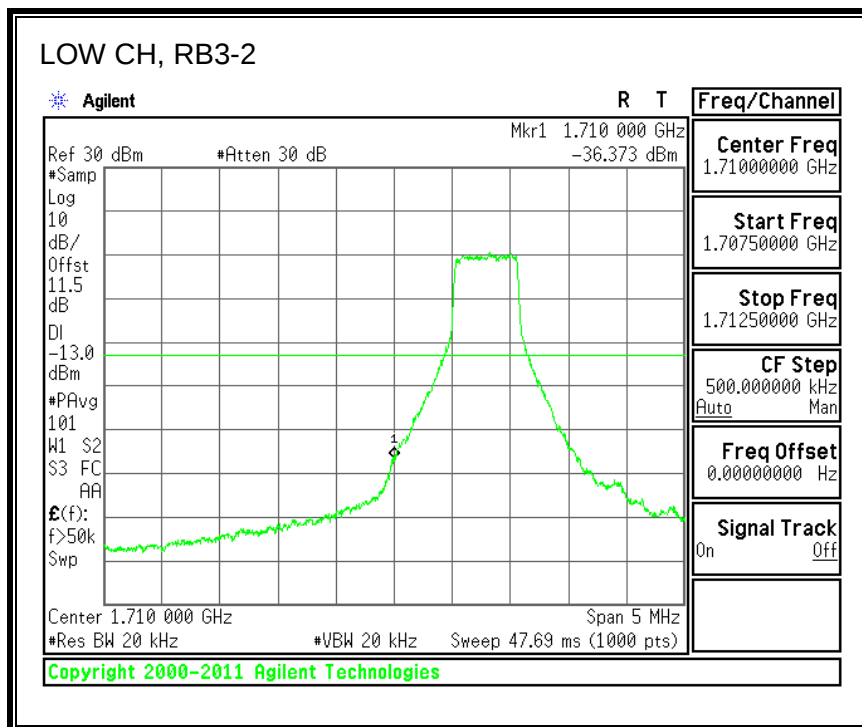


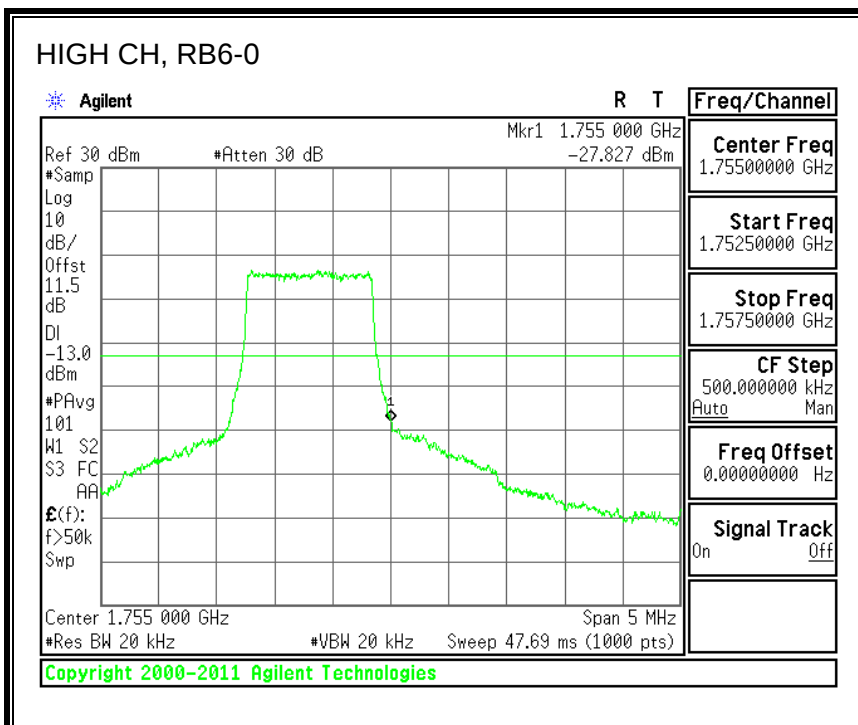
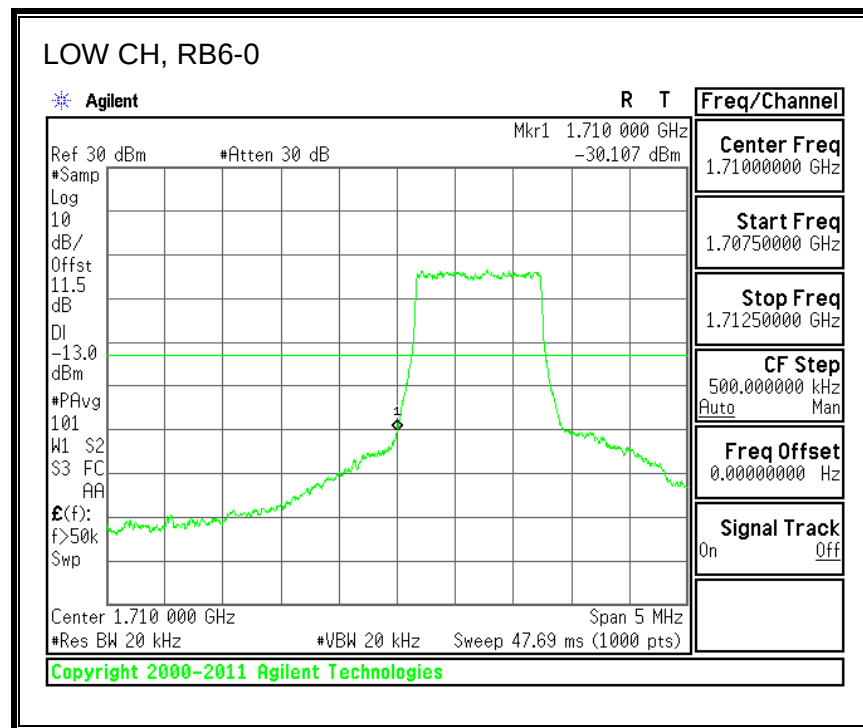


16QAM, (1.4 MHz BAND WIDTH)

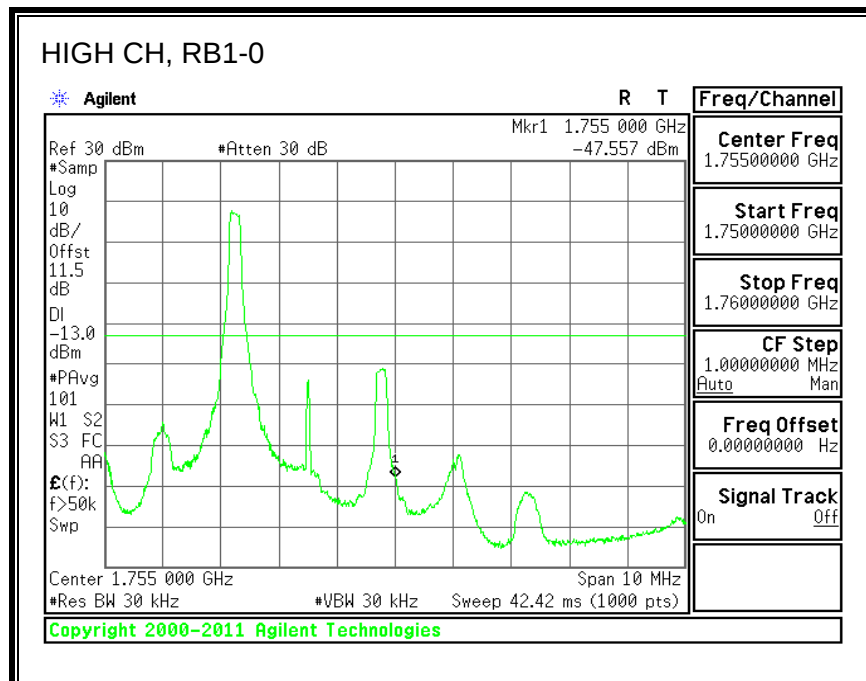
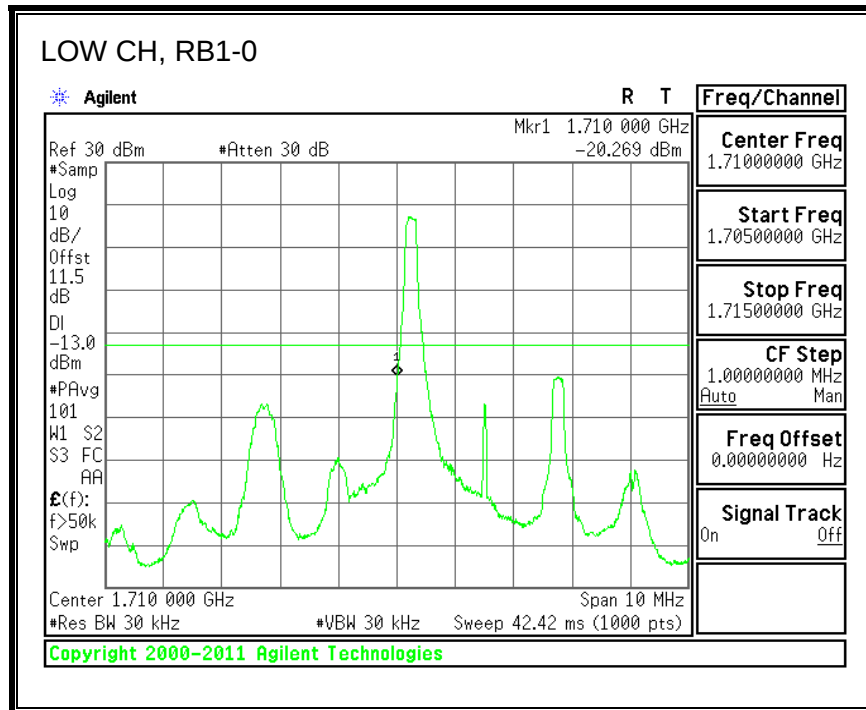


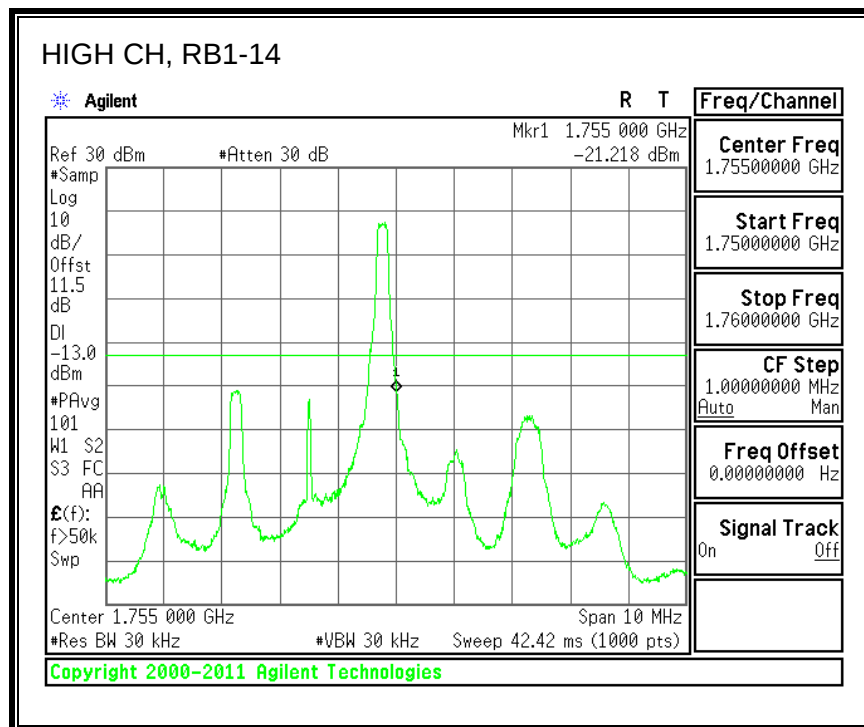
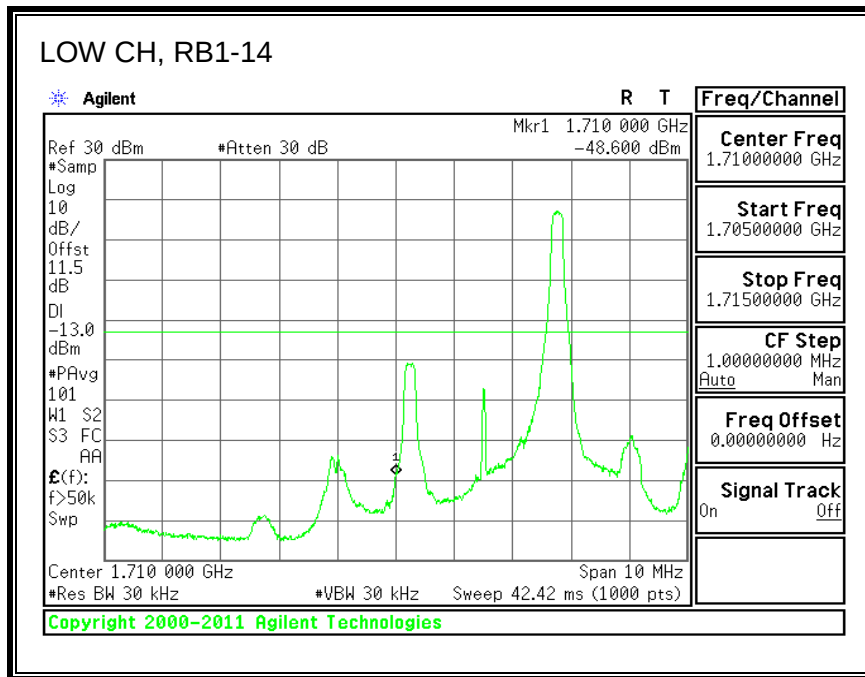


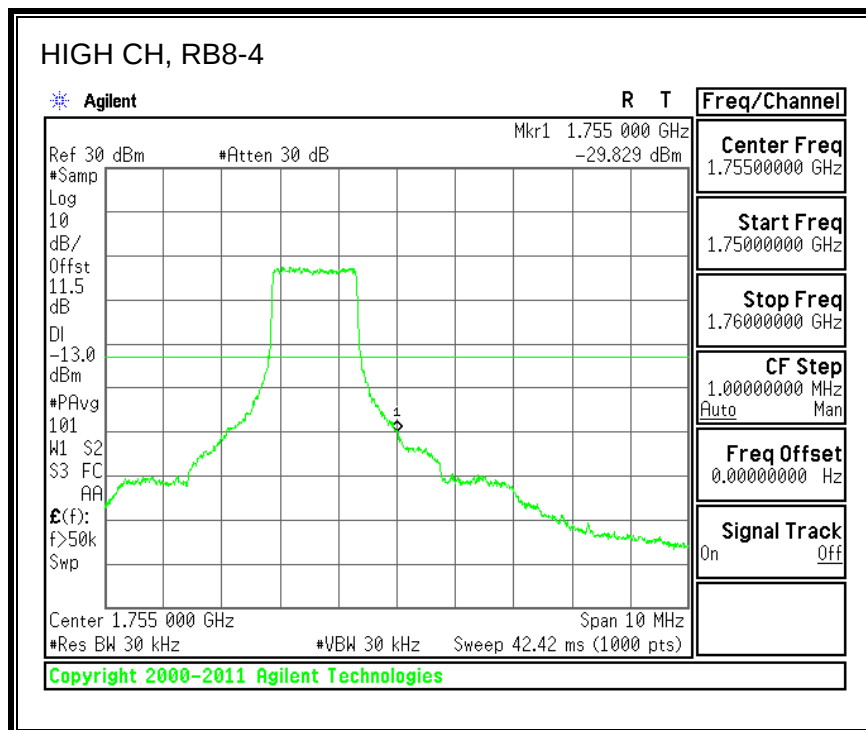
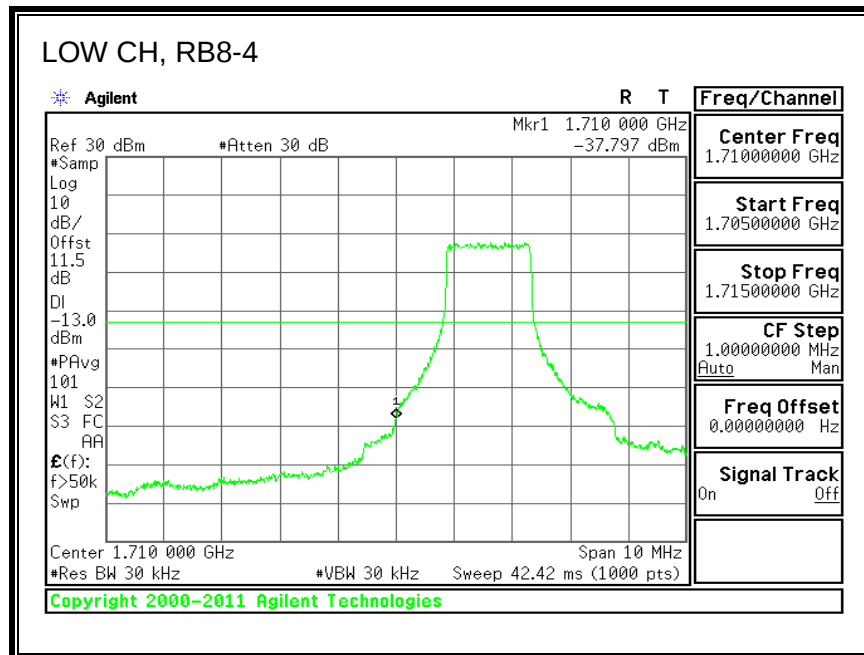


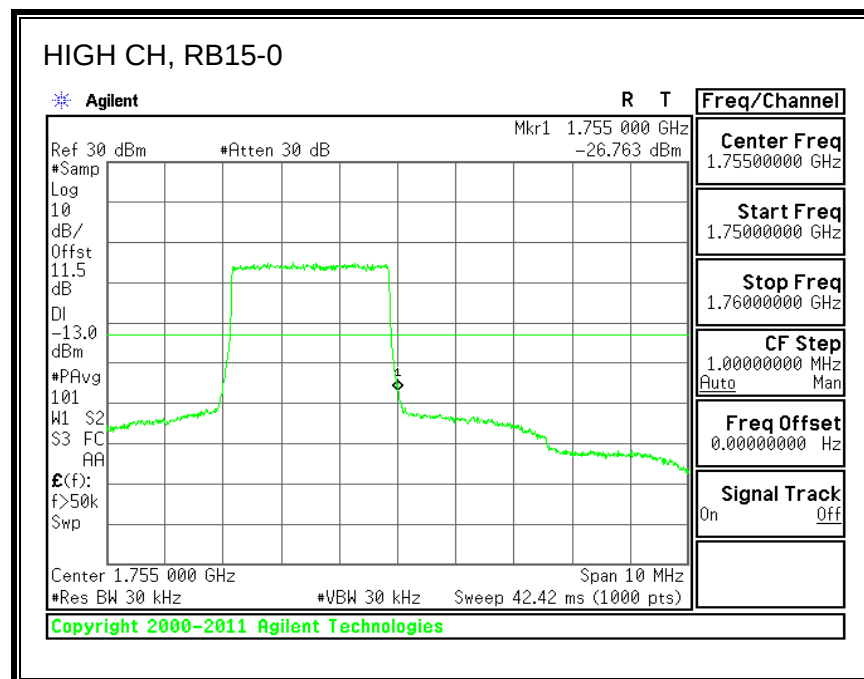
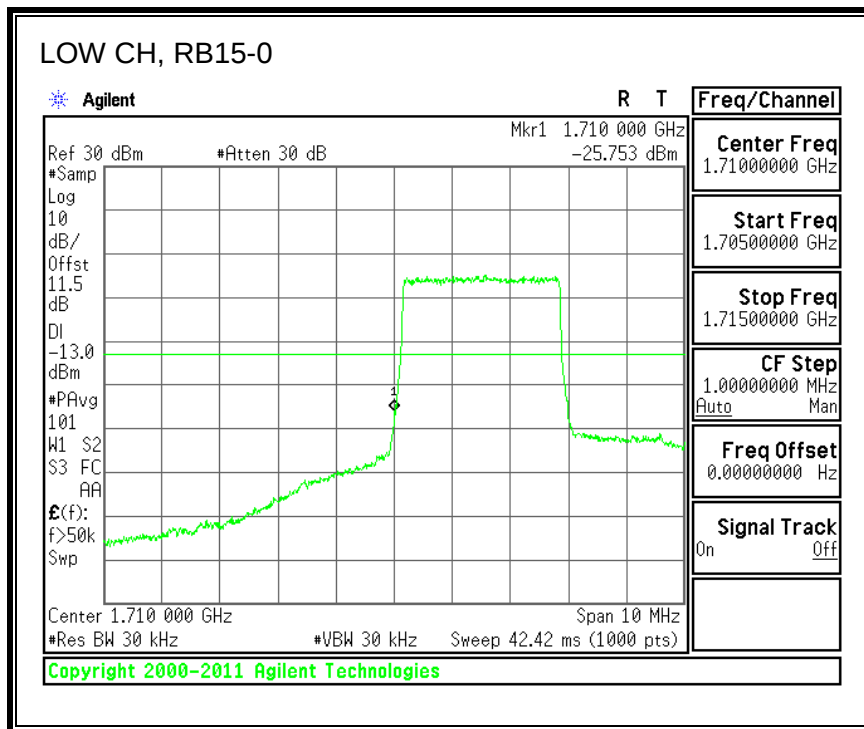


QPSK, (3.0 MHz BAND WIDTH)

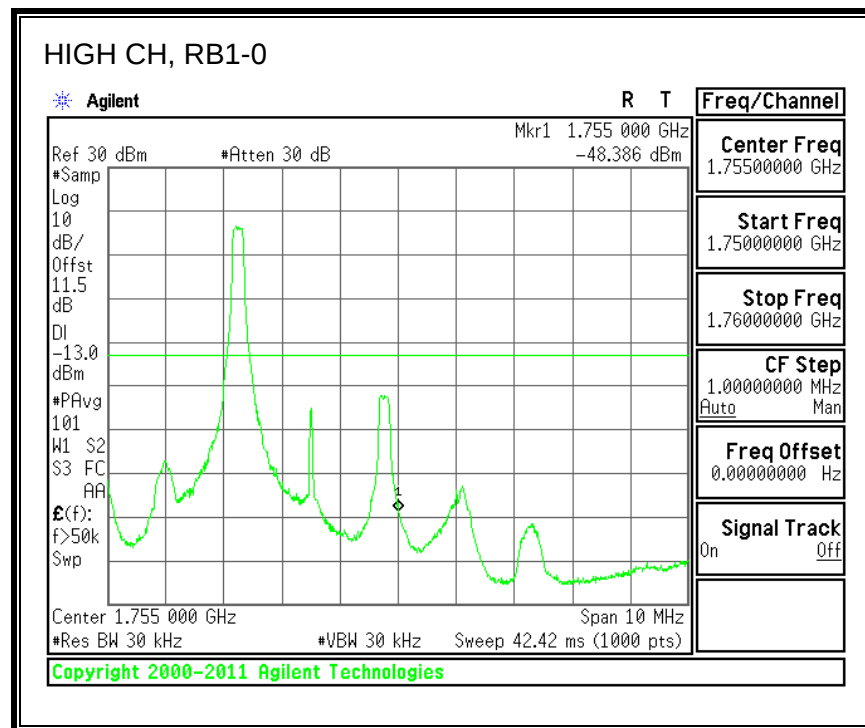
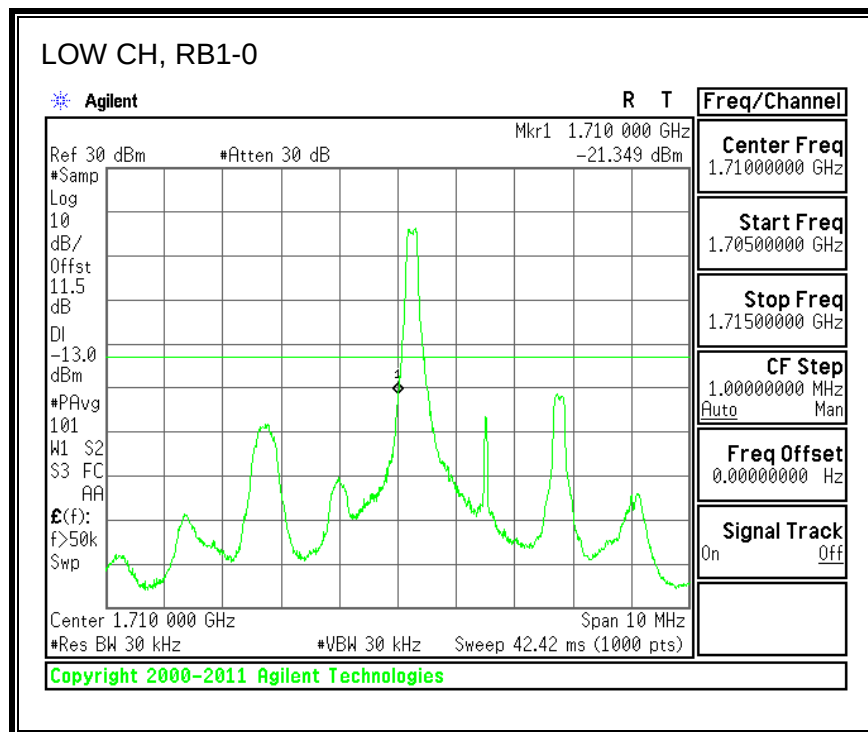


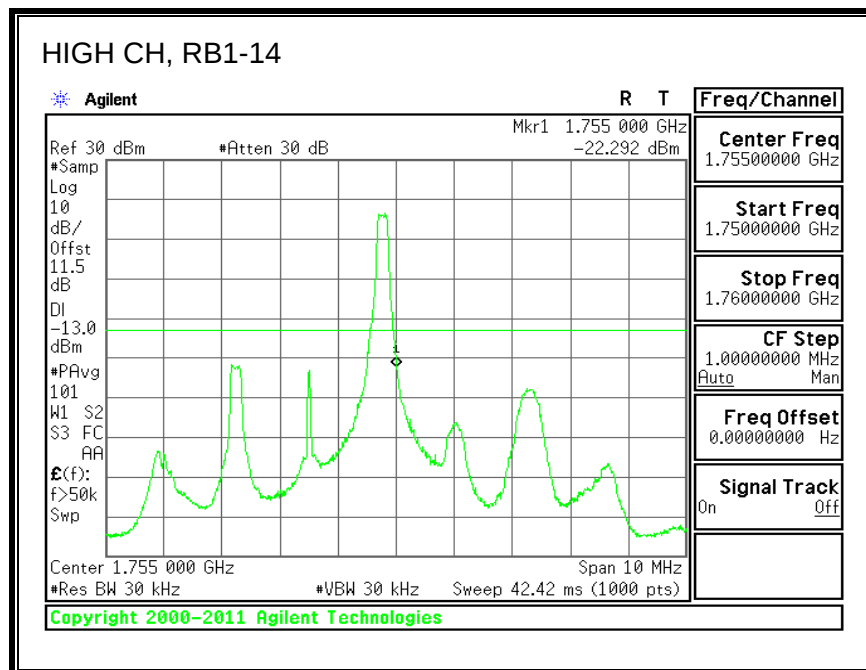
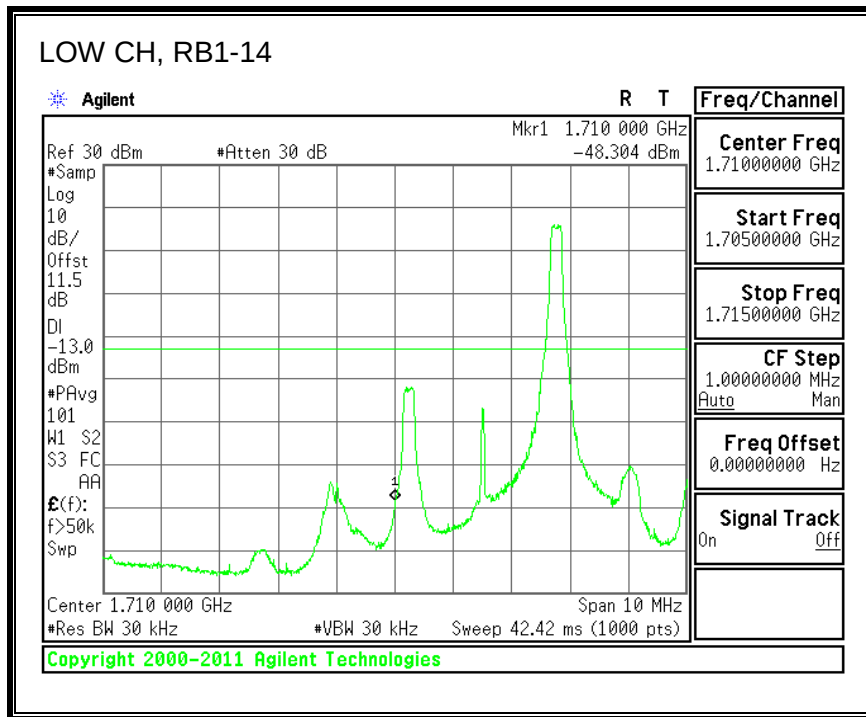


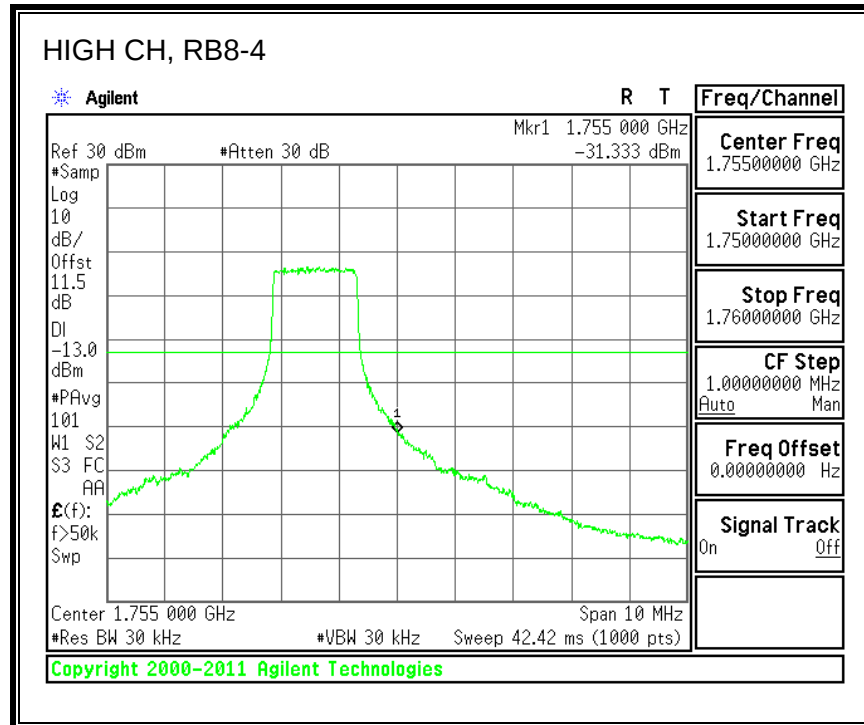
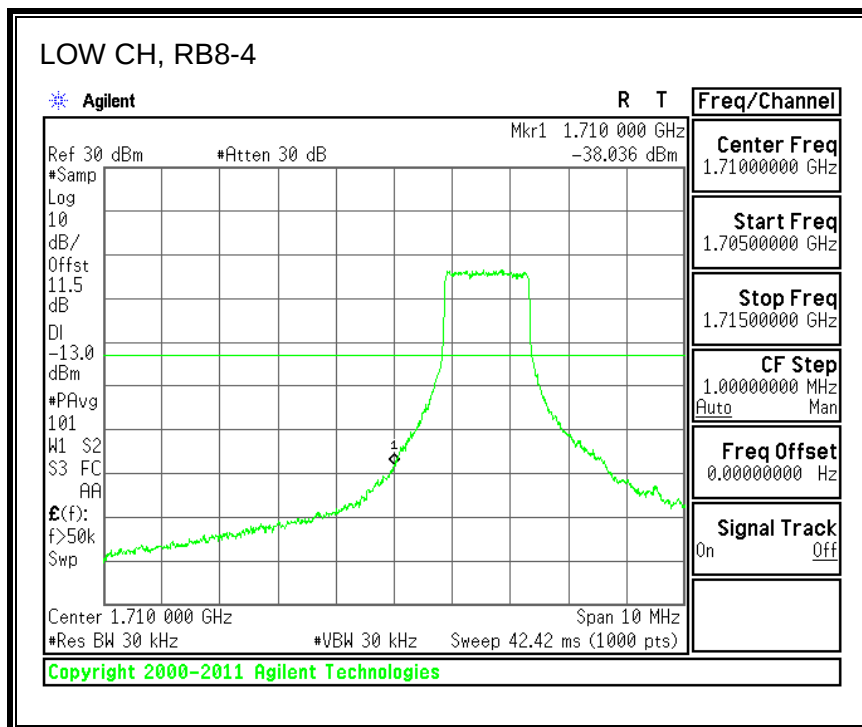


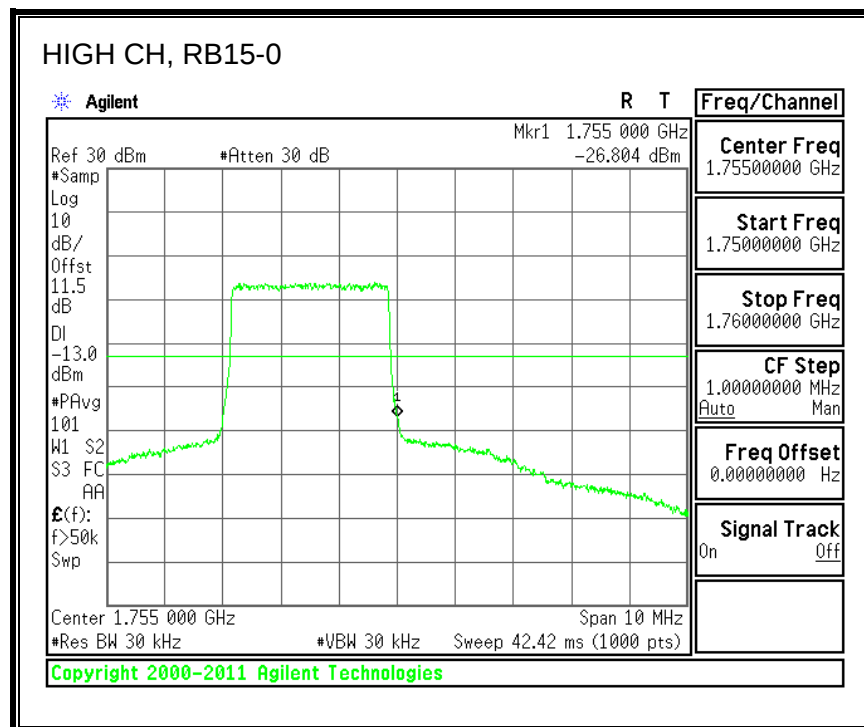
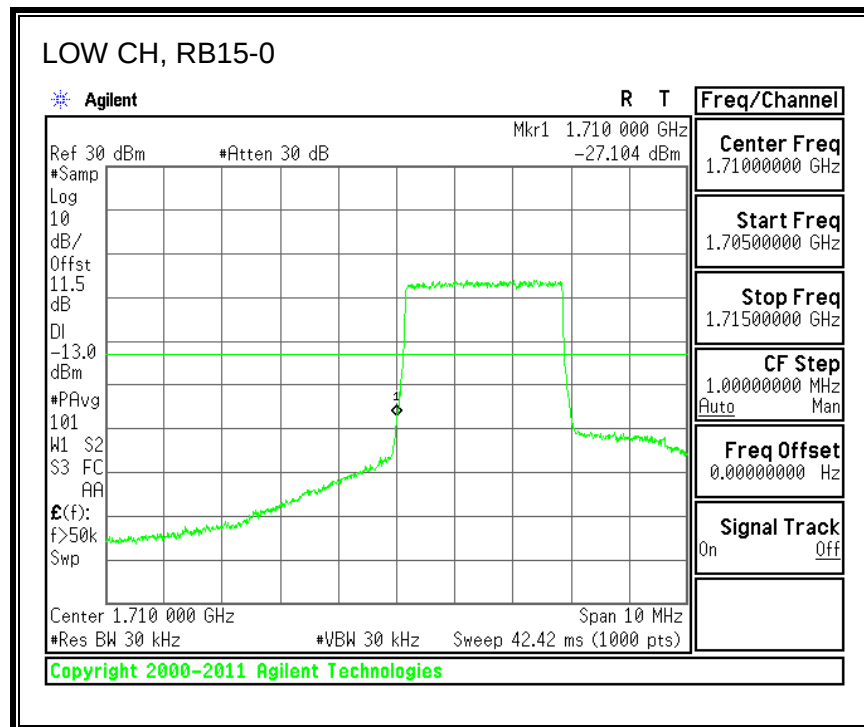


16QAM, (3.0 MHz BAND WIDTH)

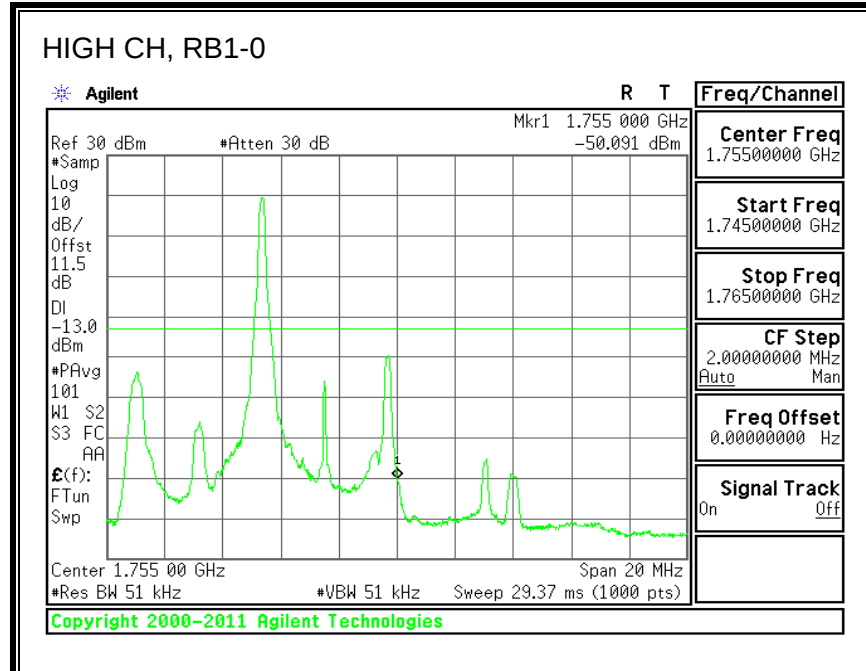
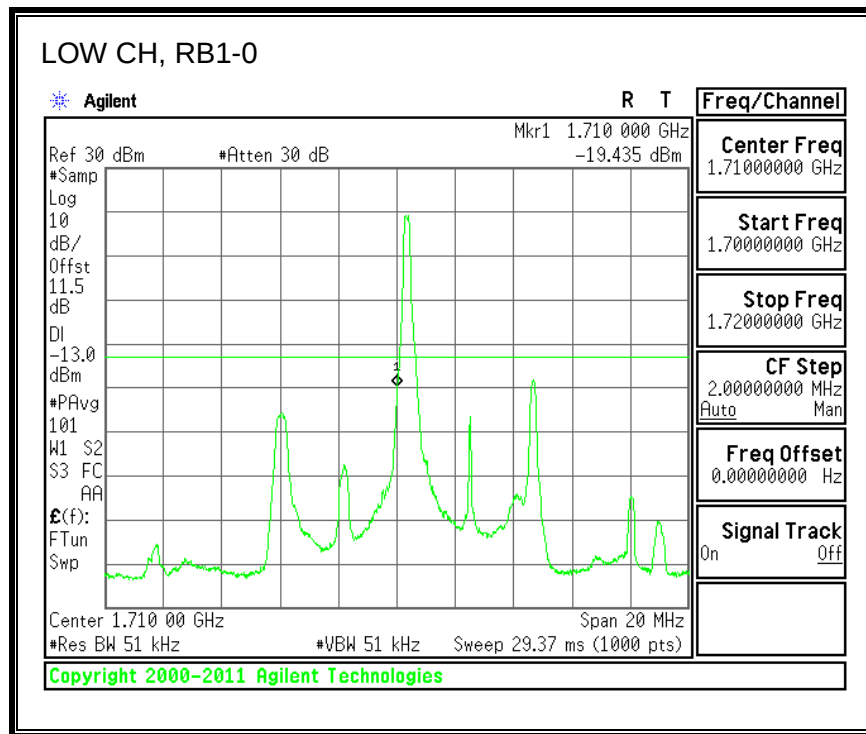


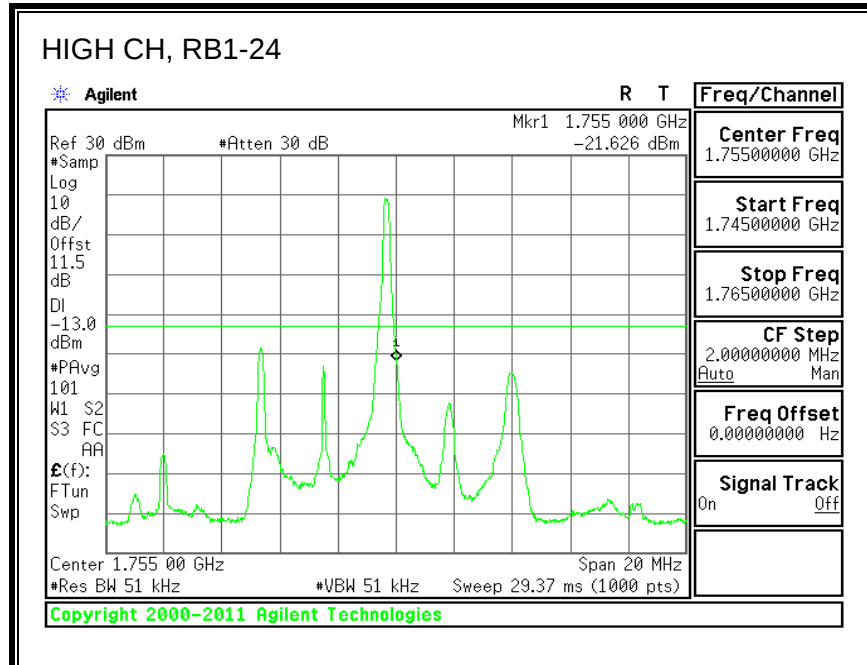
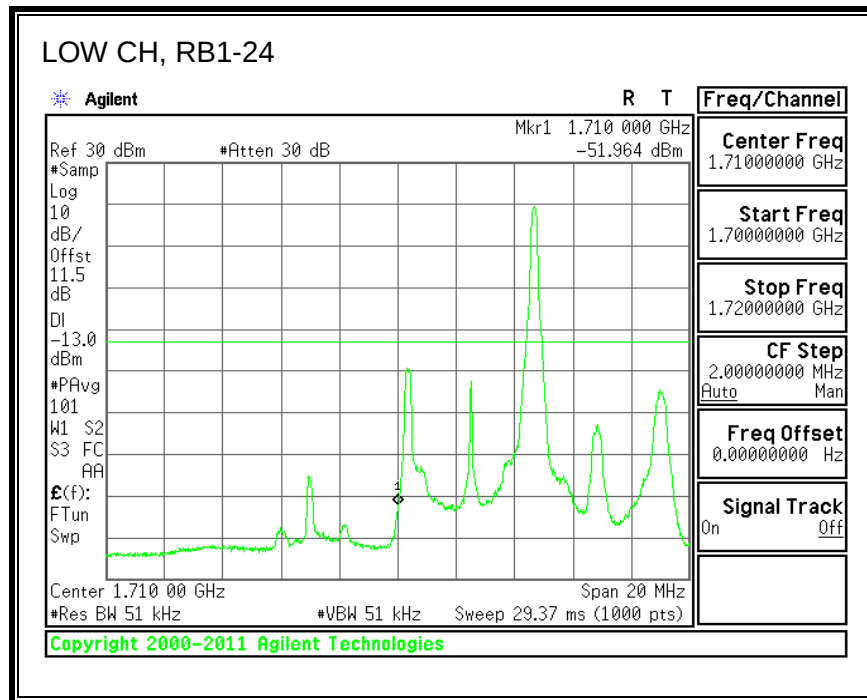


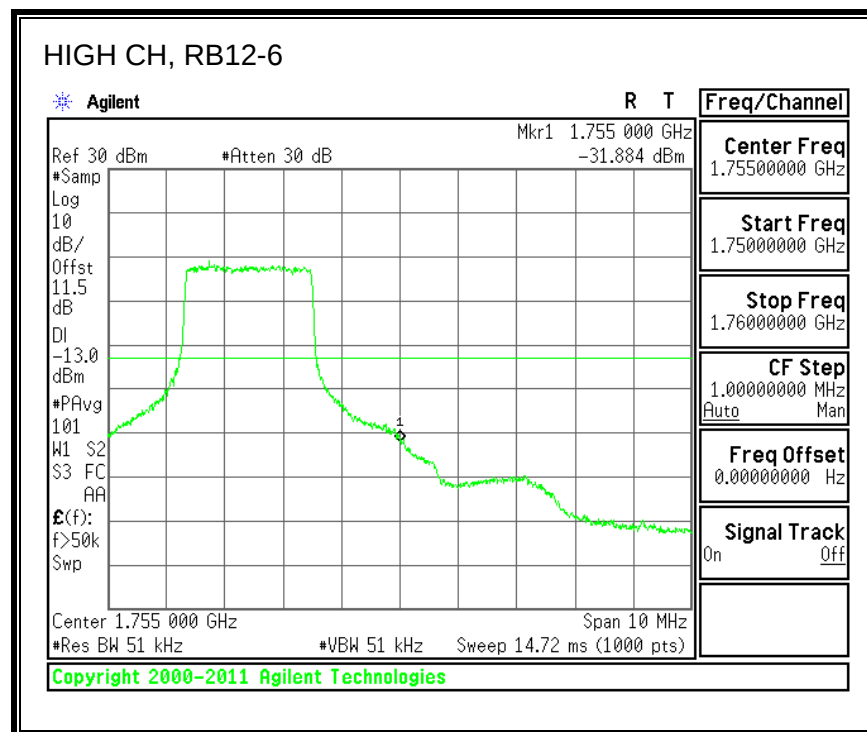
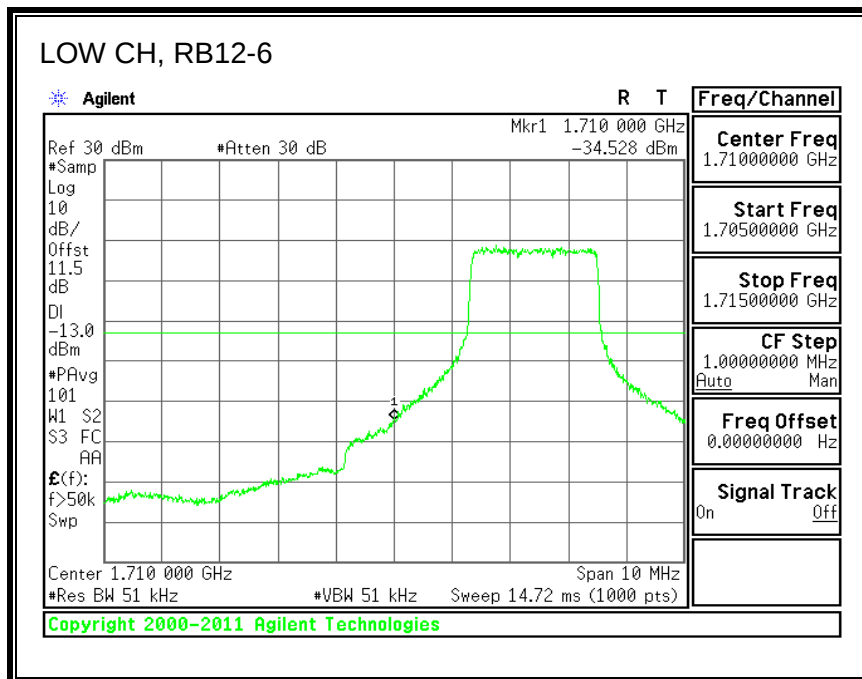


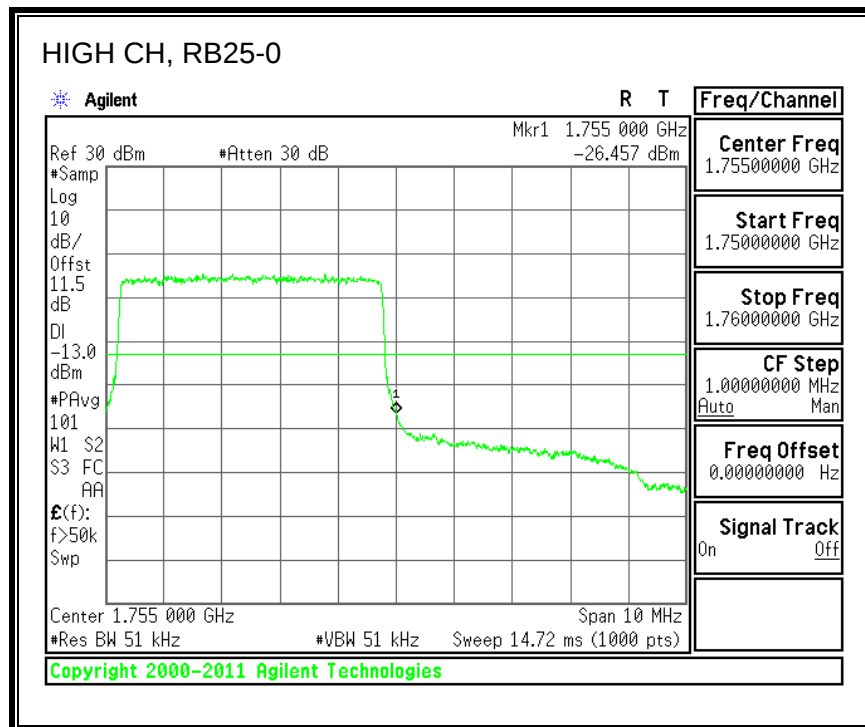
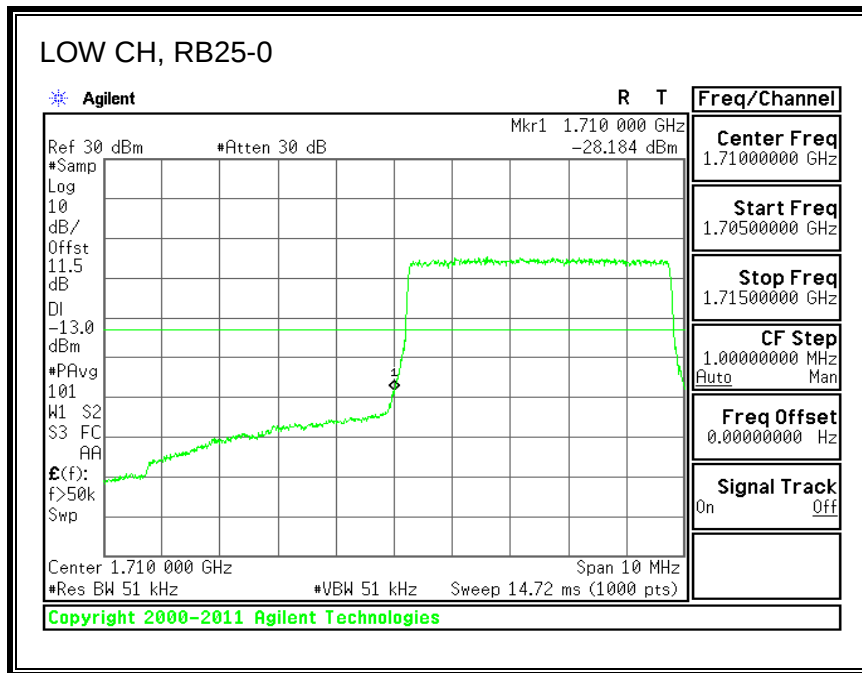


QPSK, (5.0 MHz BAND WIDTH)

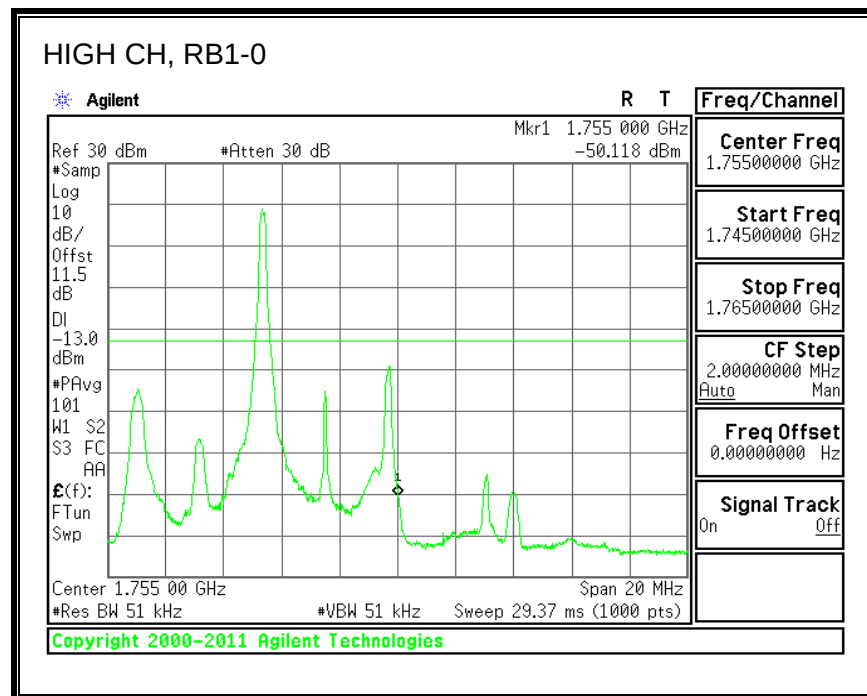
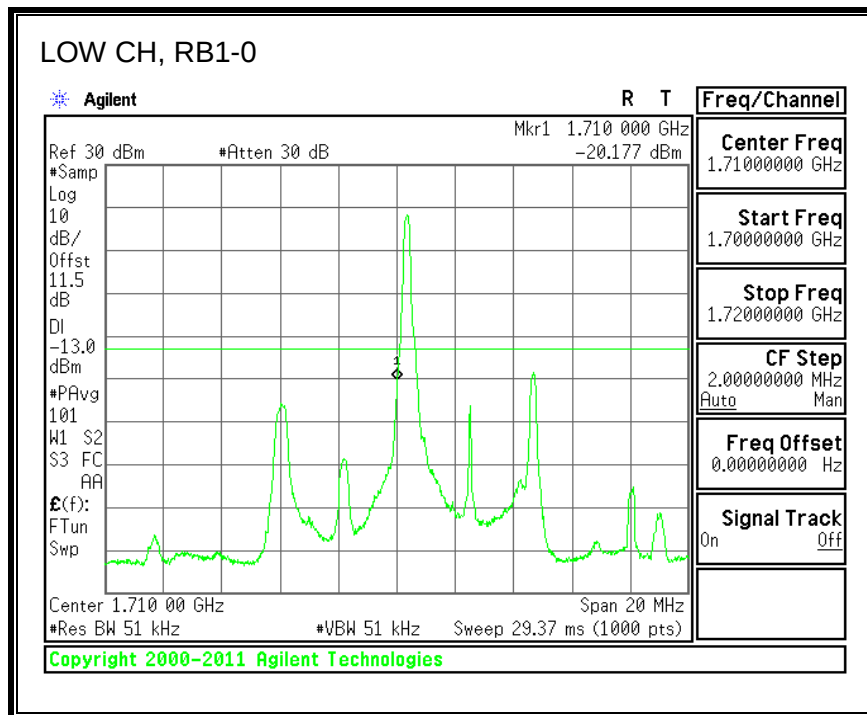


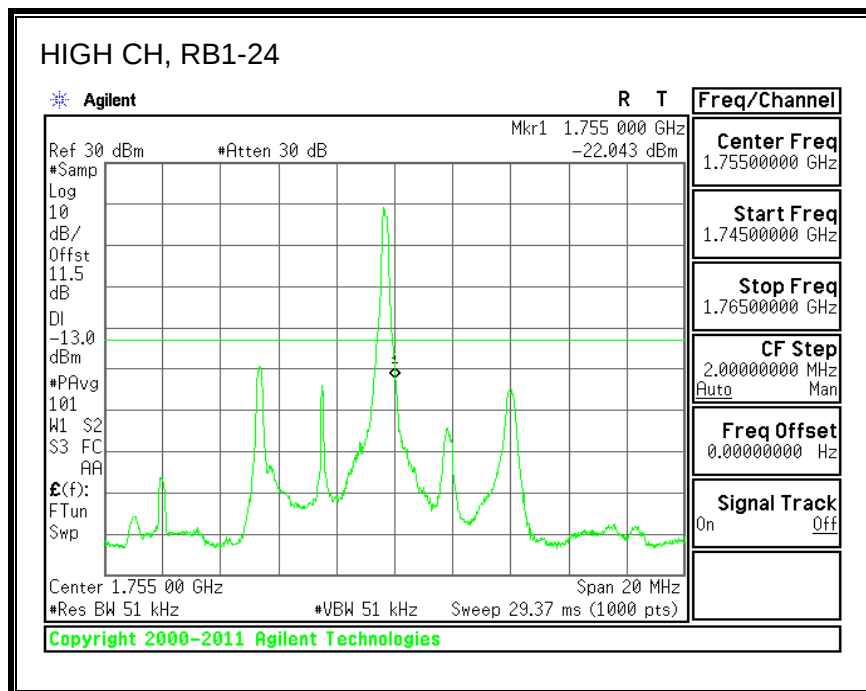
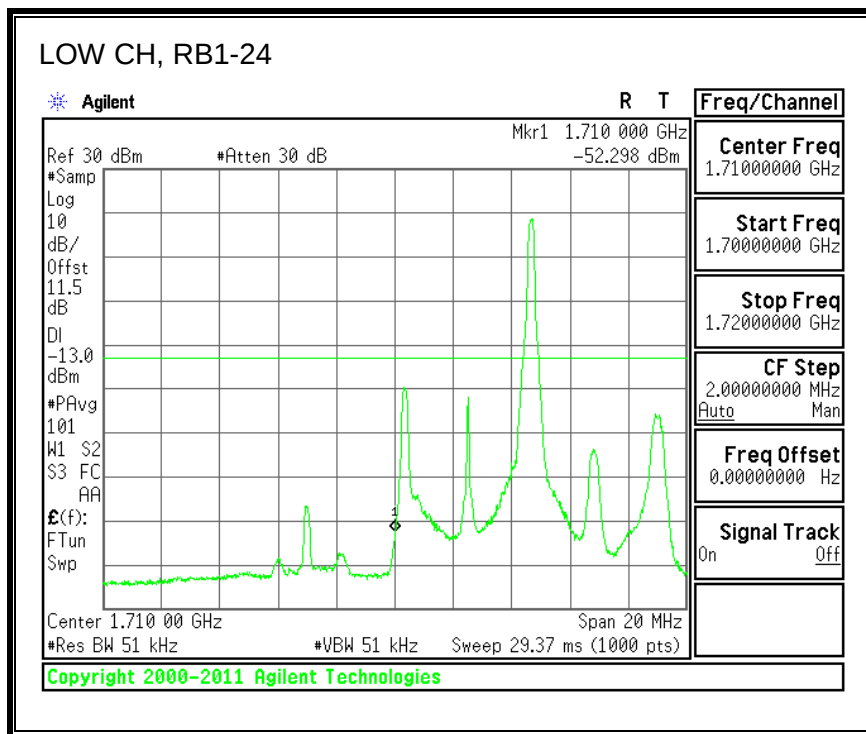


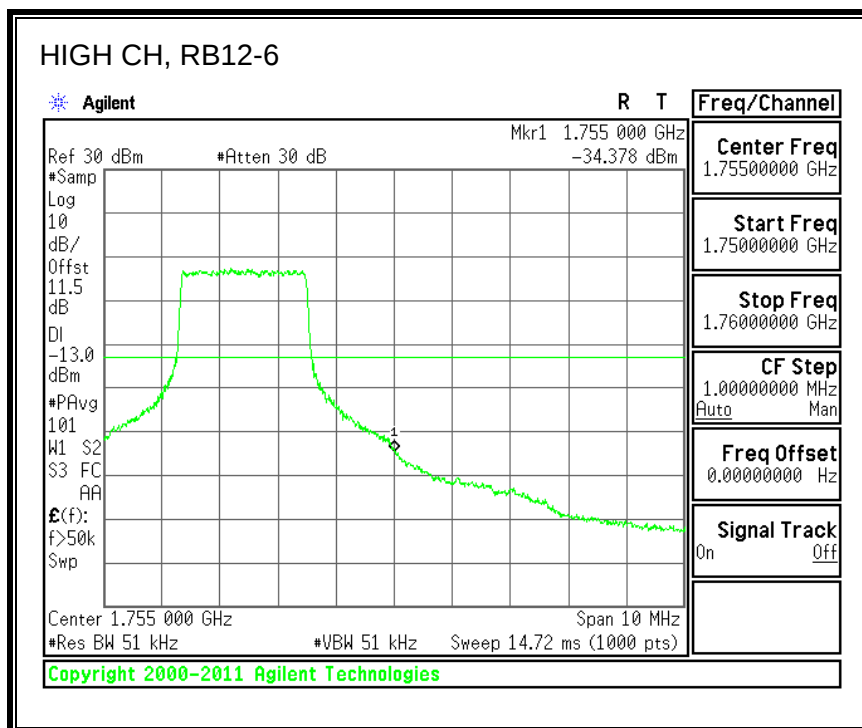
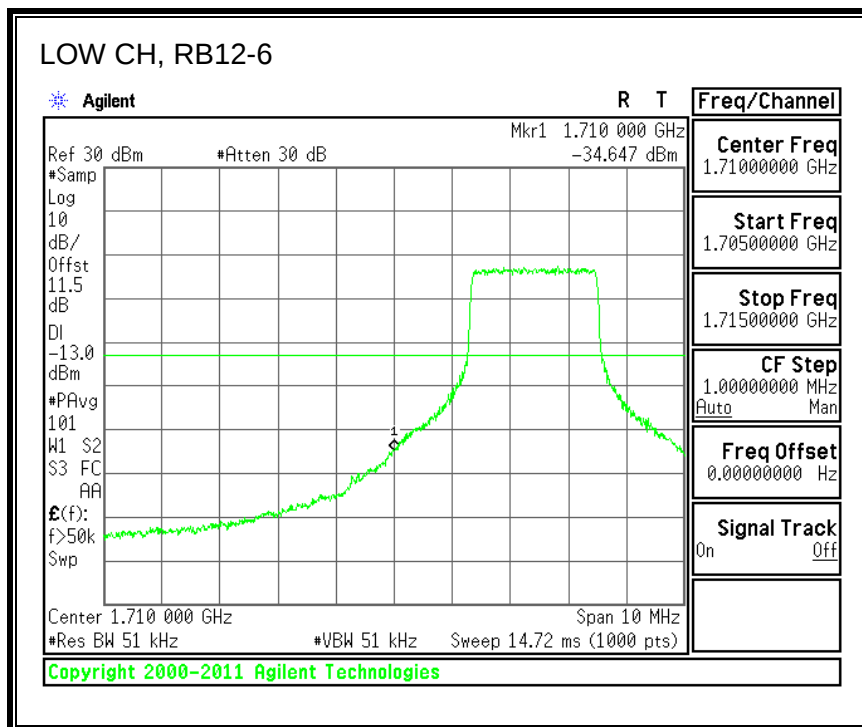


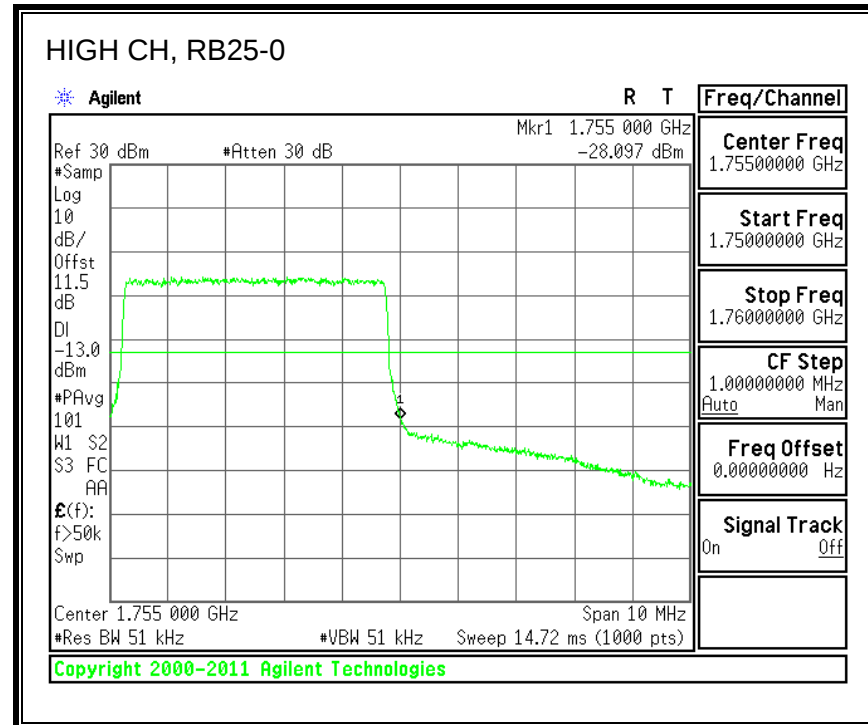
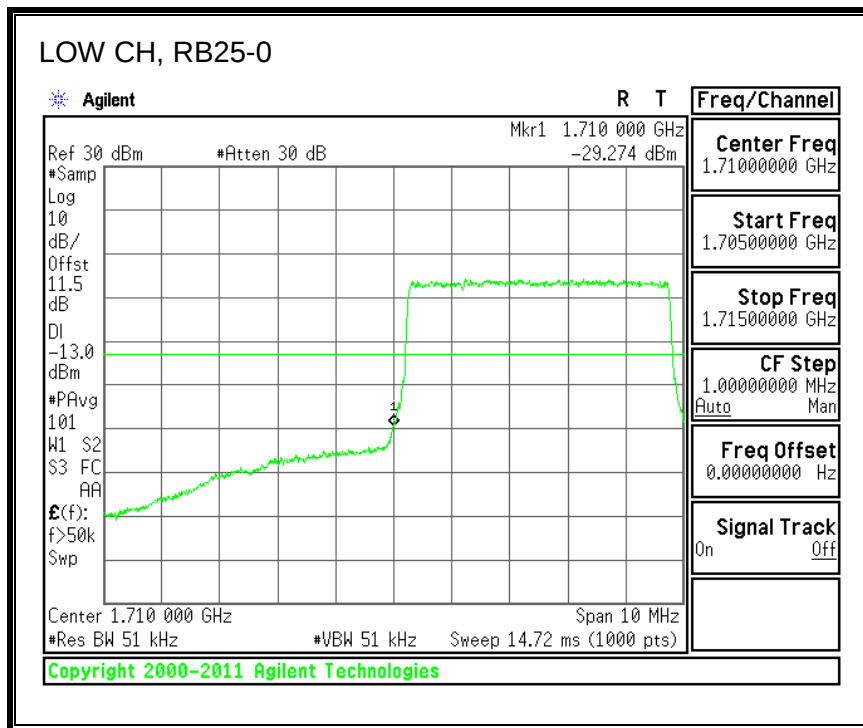


16QAM, (5.0 MHz BAND WIDTH)

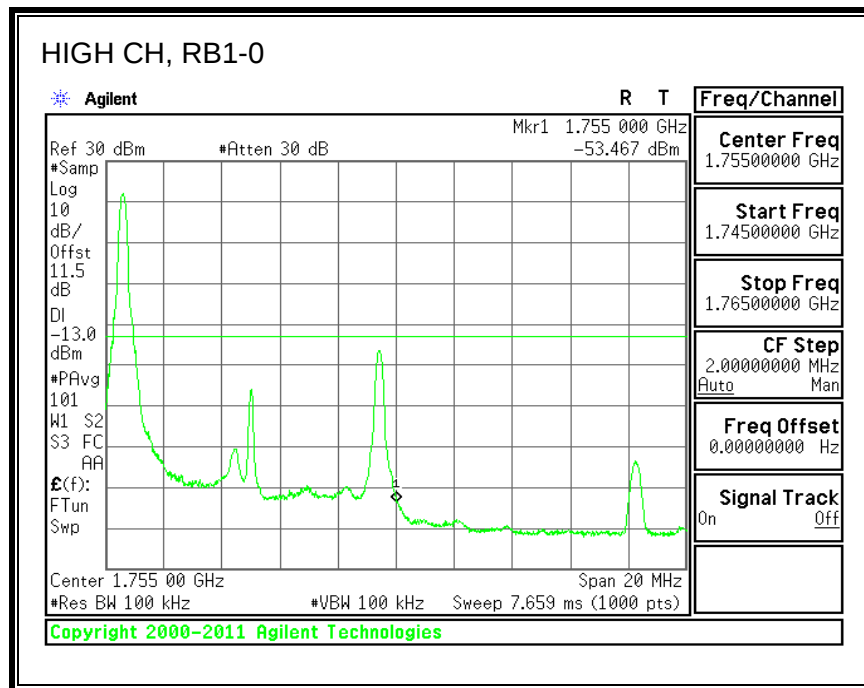
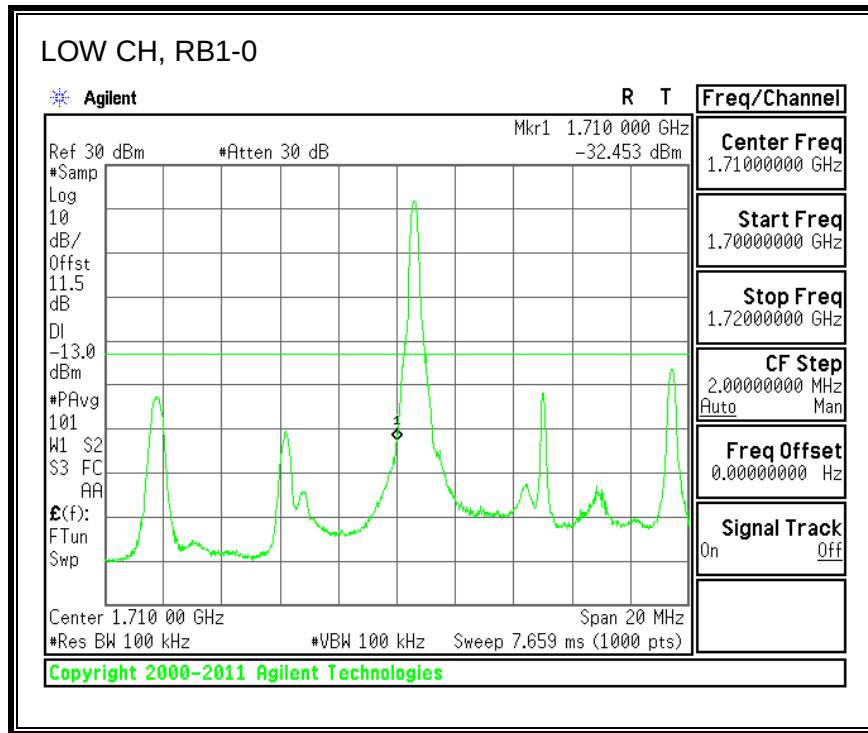


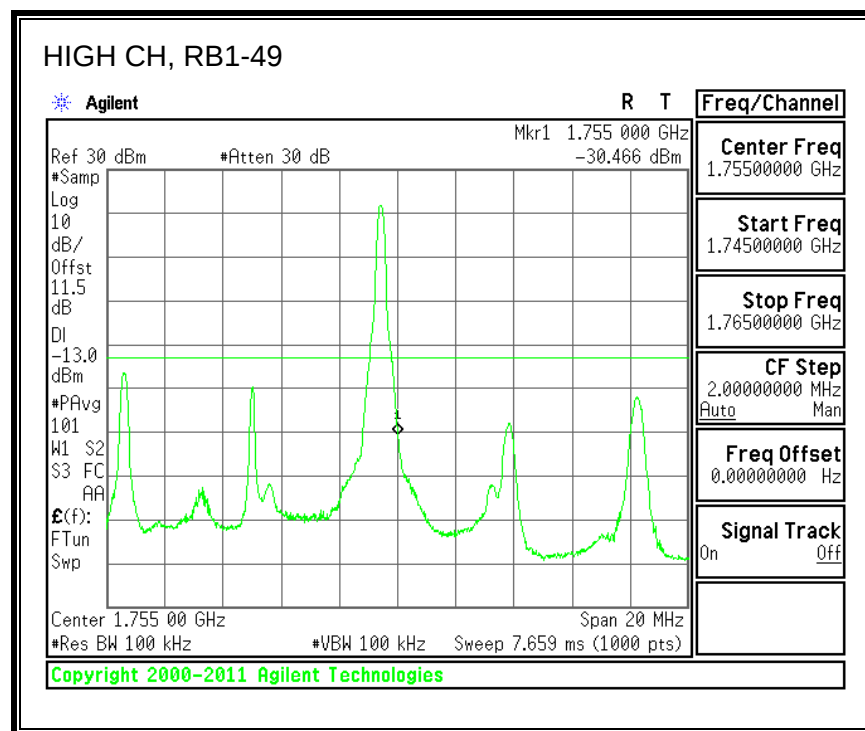
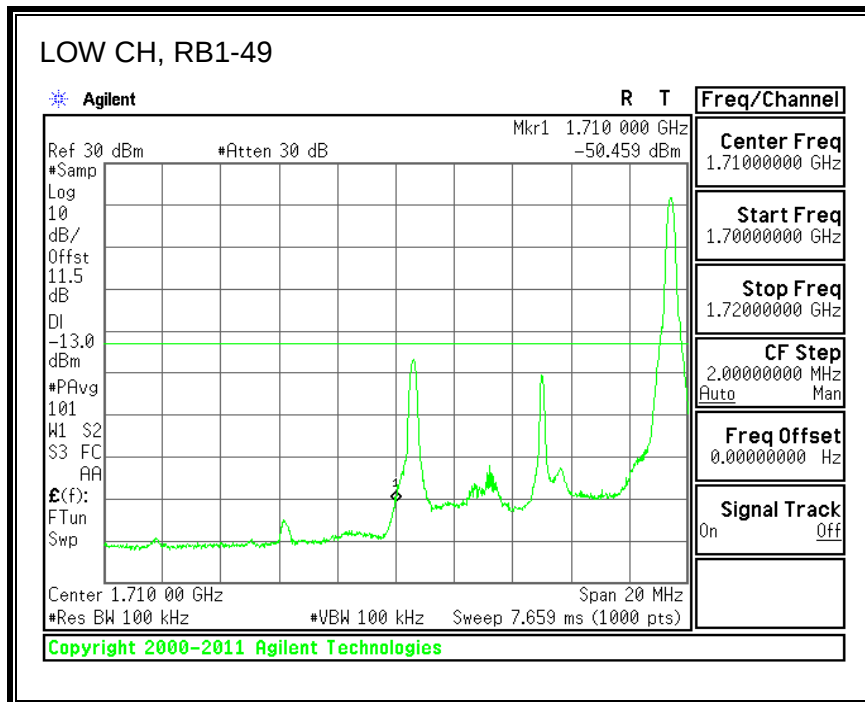


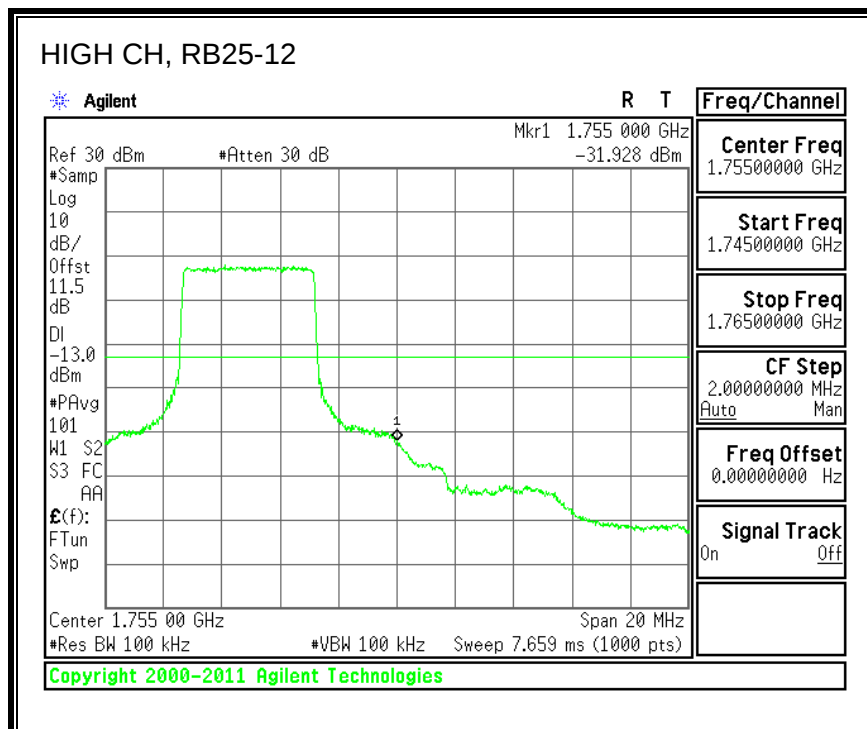
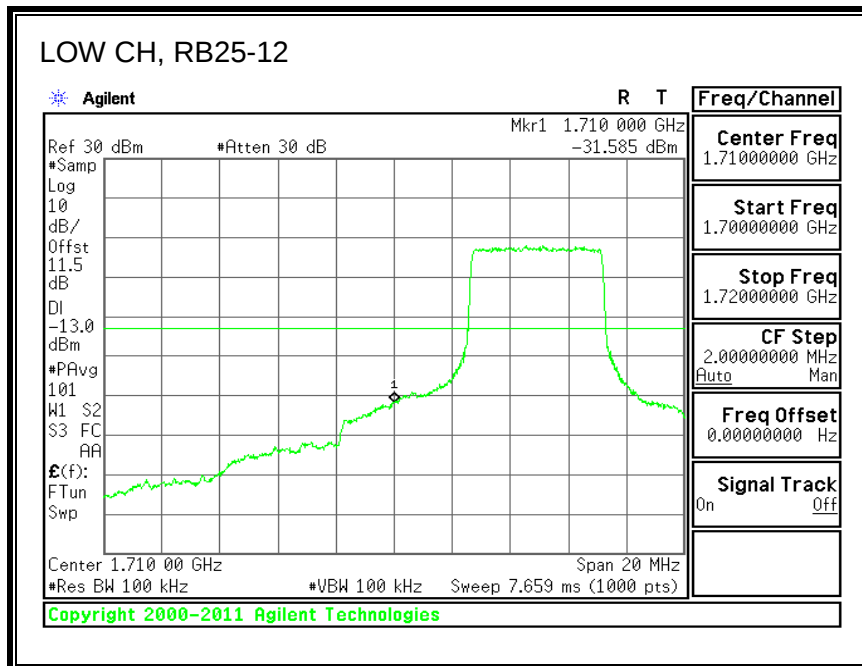


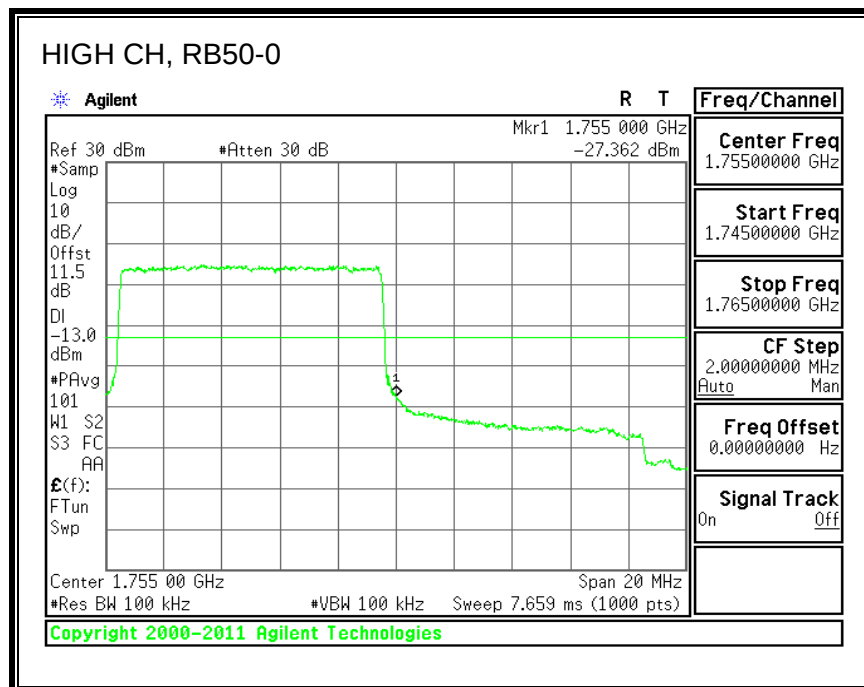
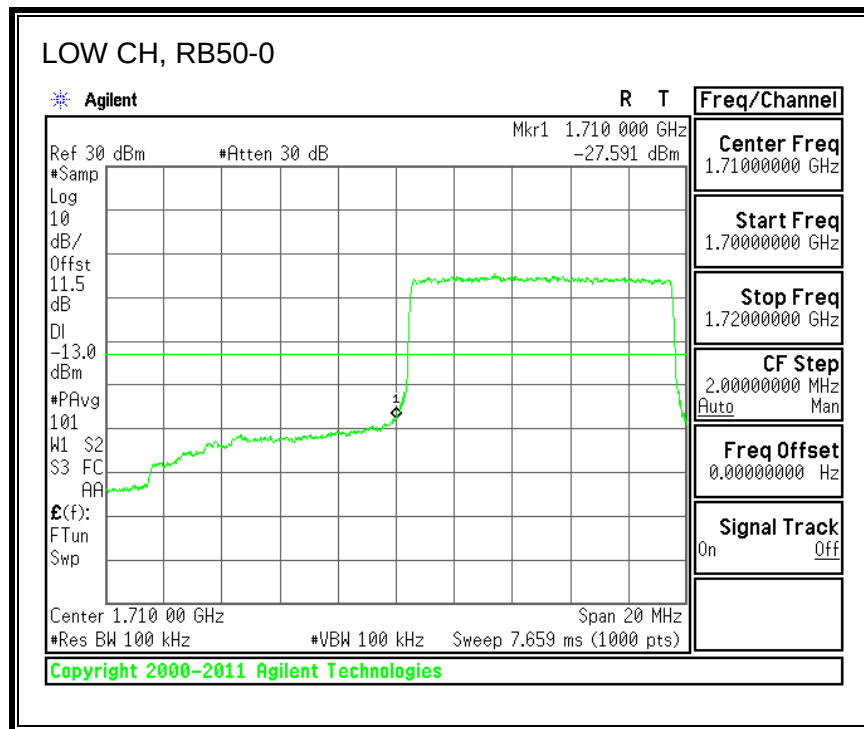


QPSK, (10.0 MHz BAND WIDTH)

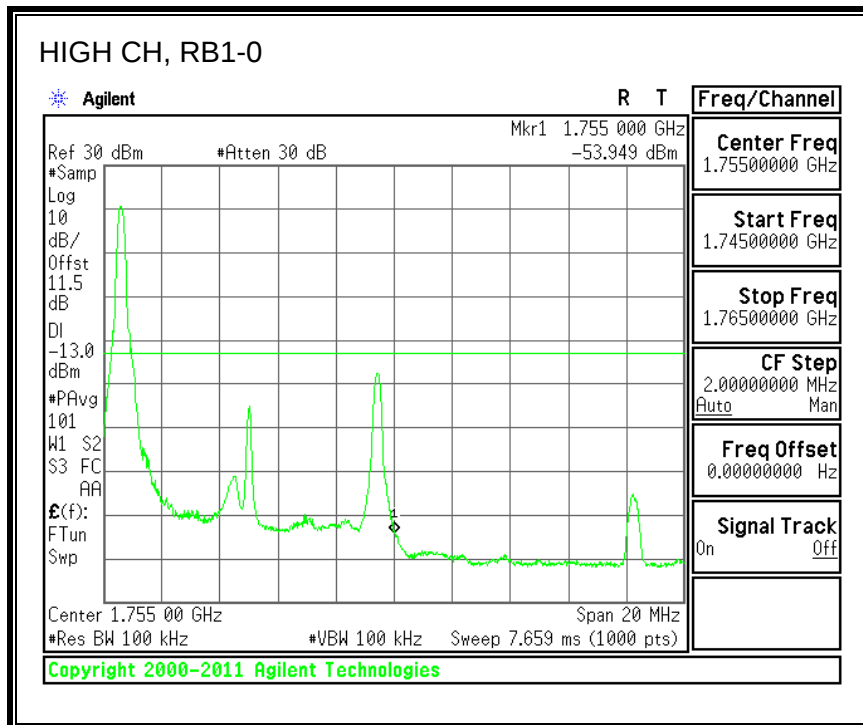
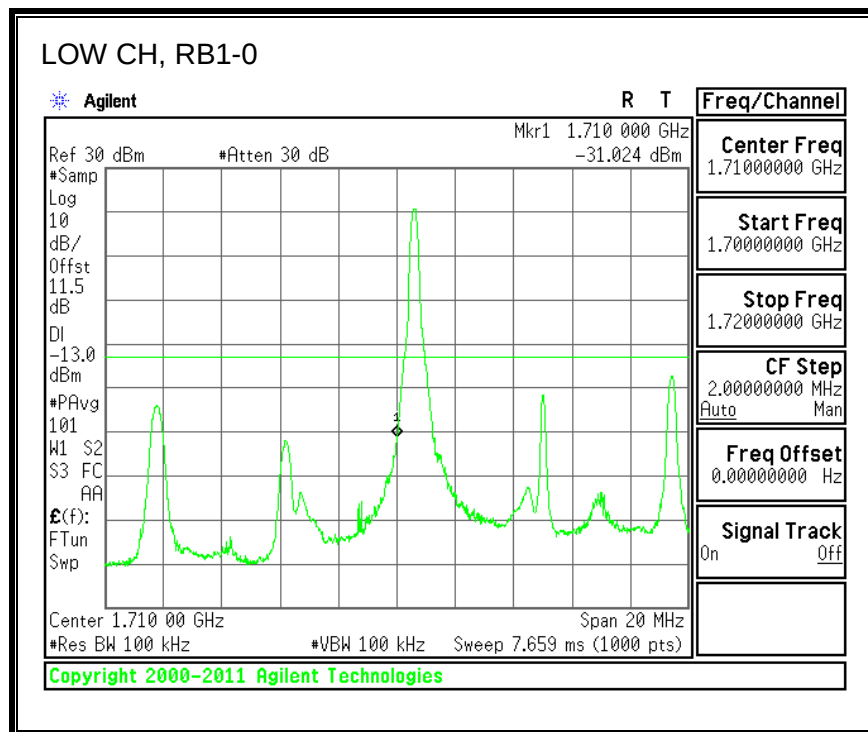


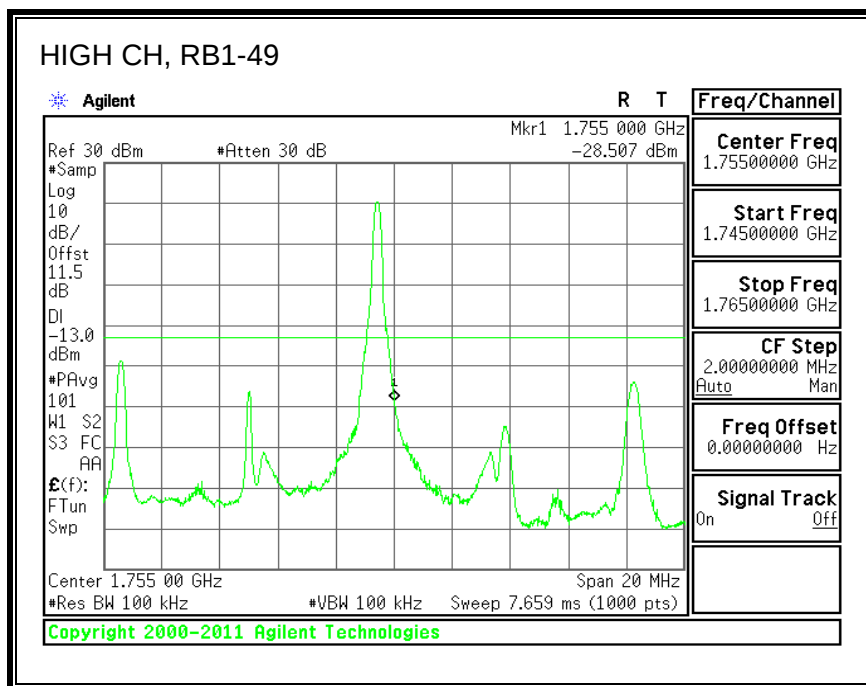
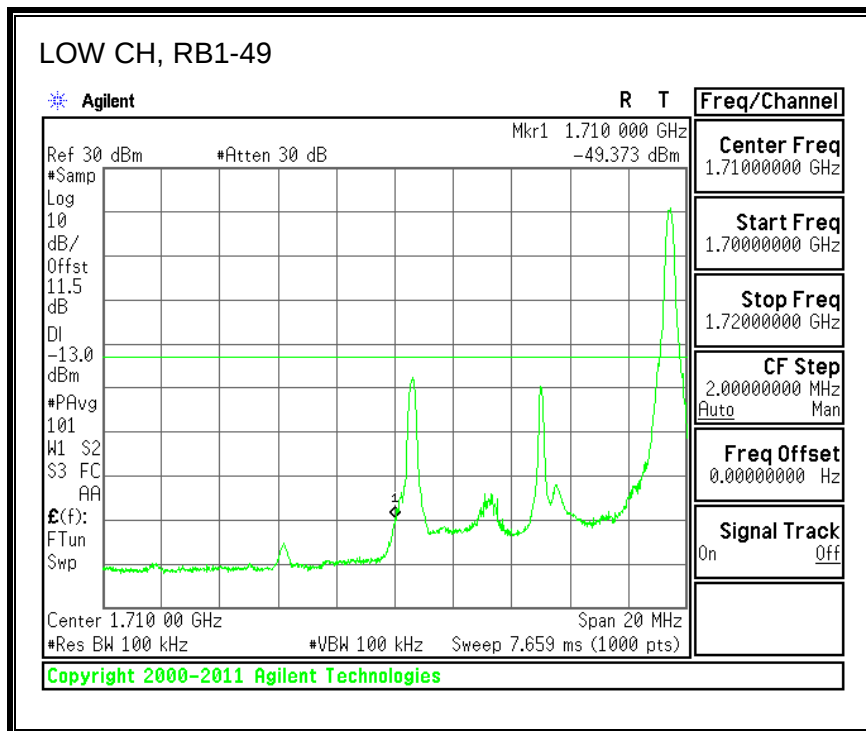


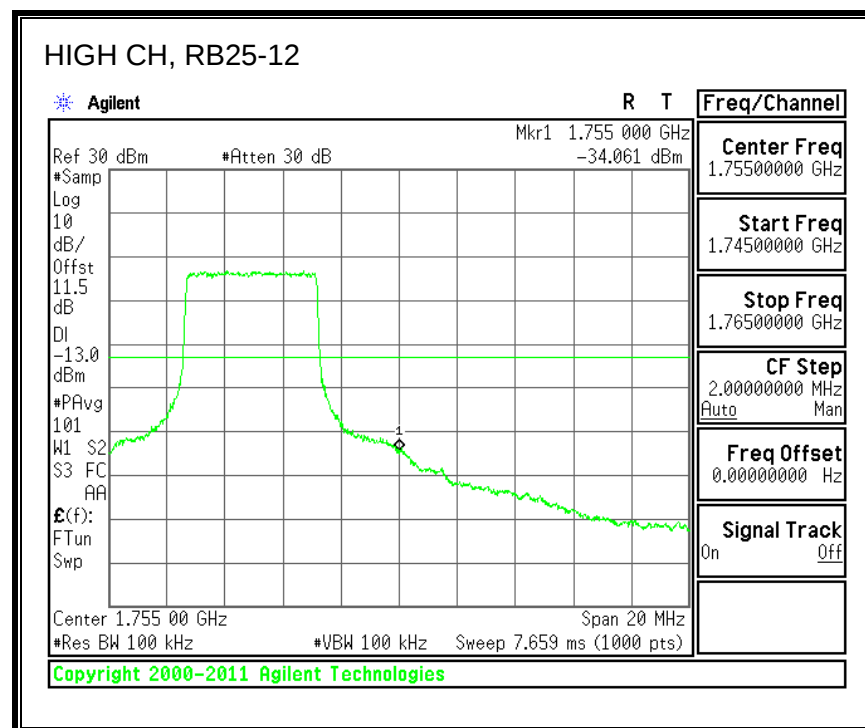
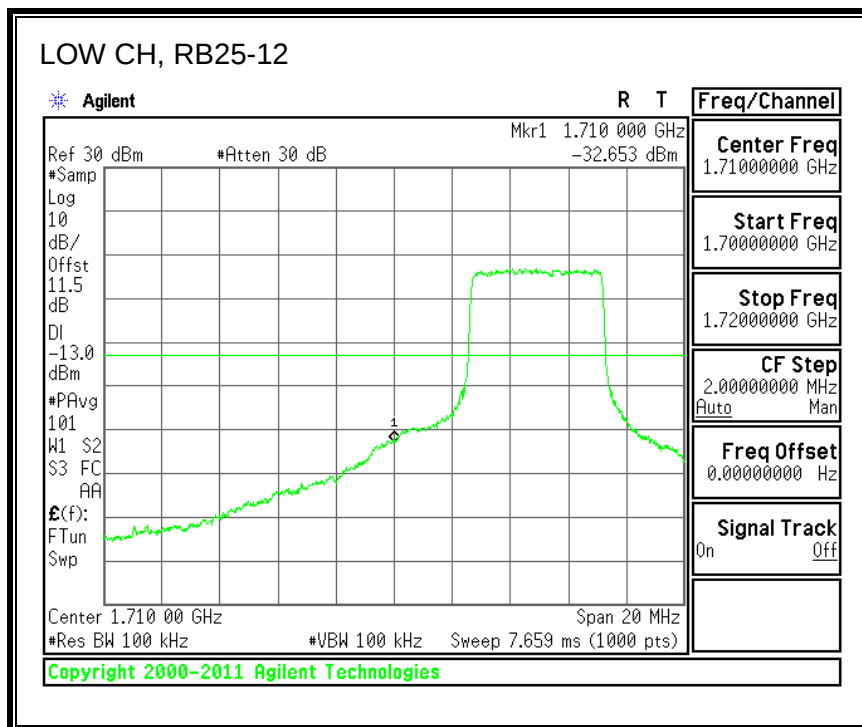


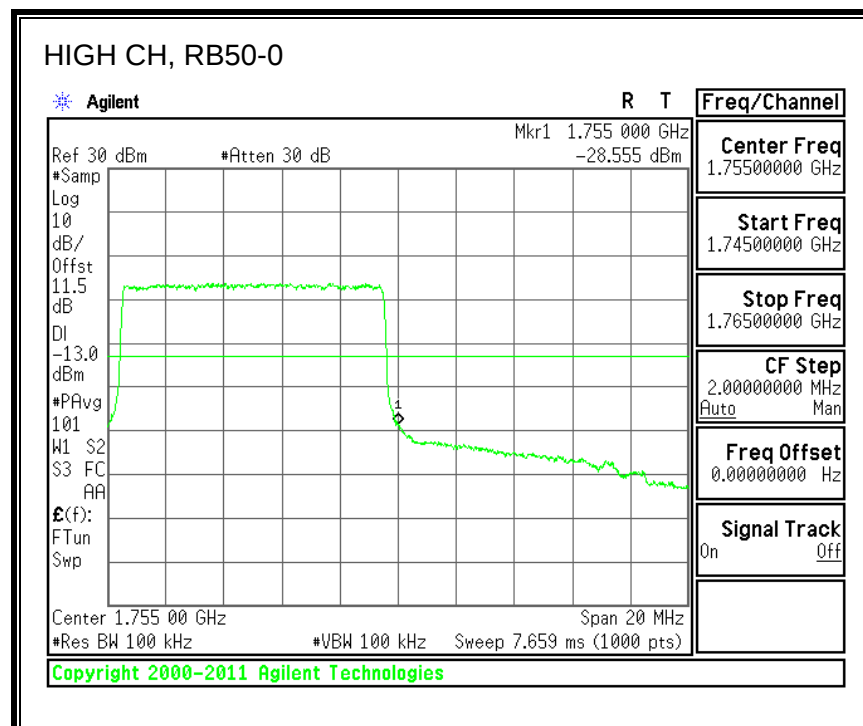
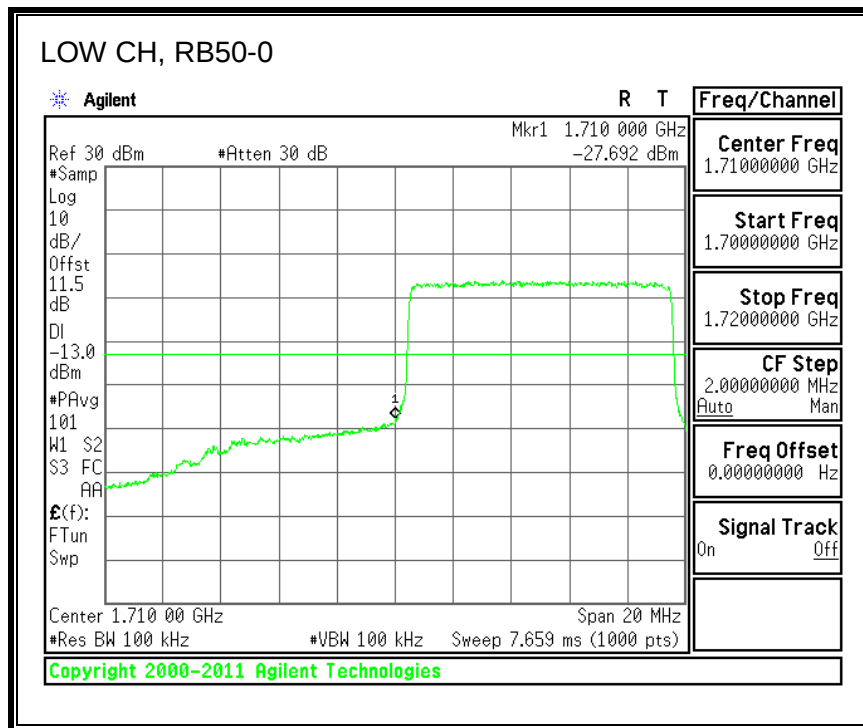


16QAM, (10.0 MHz BAND WIDTH)

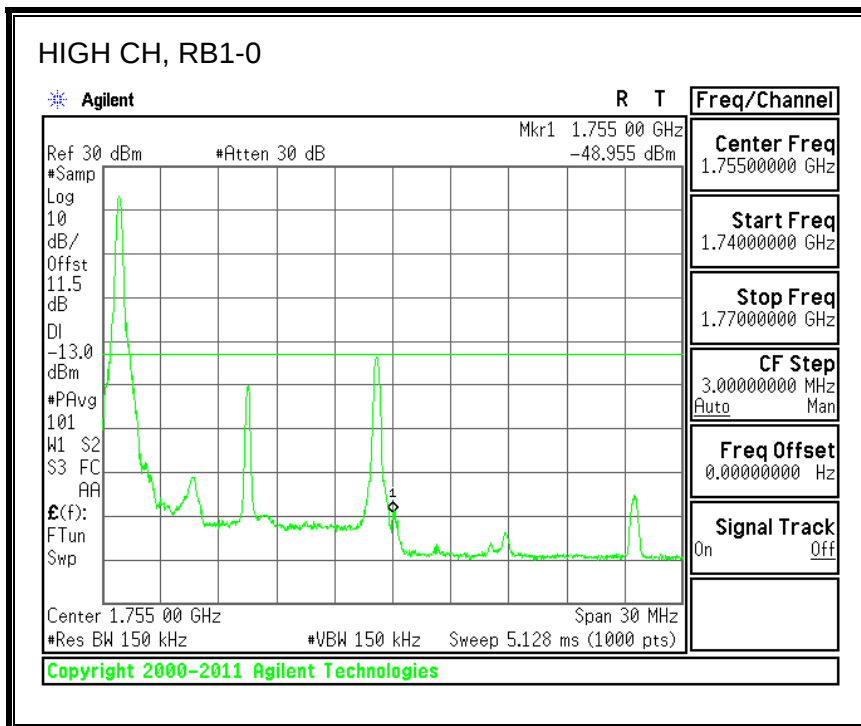
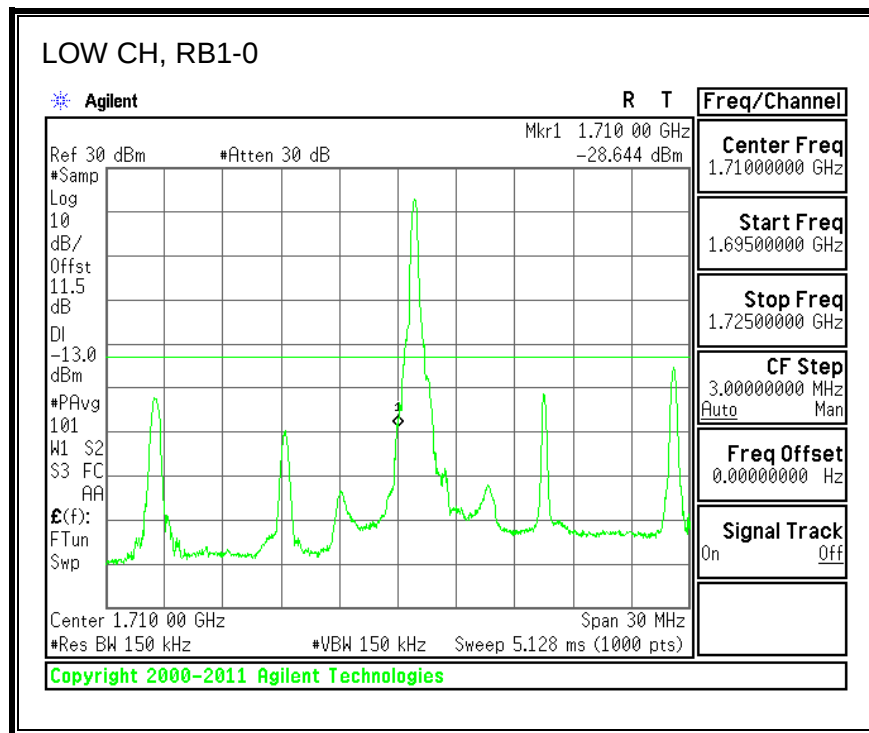


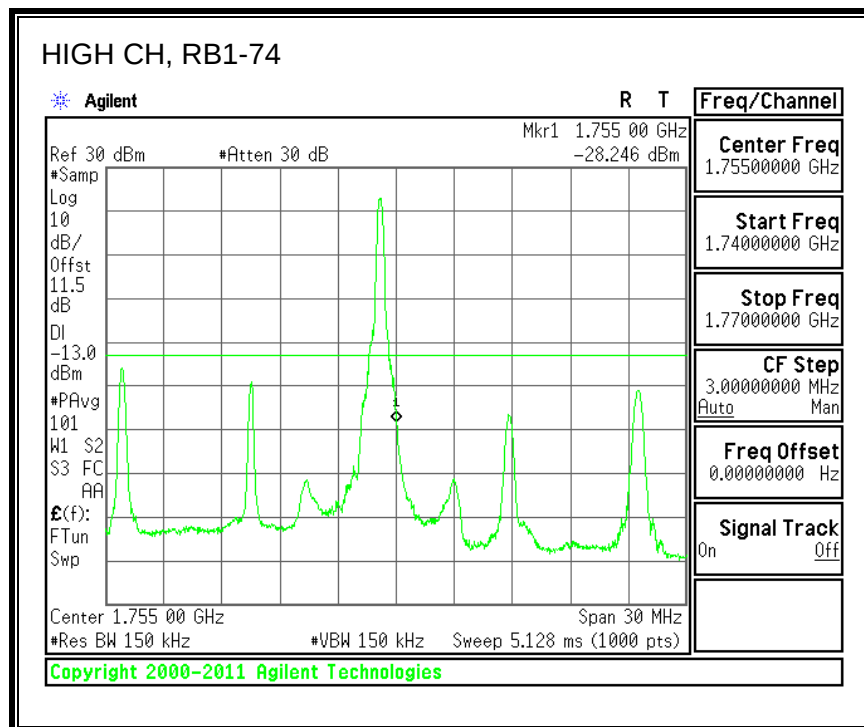
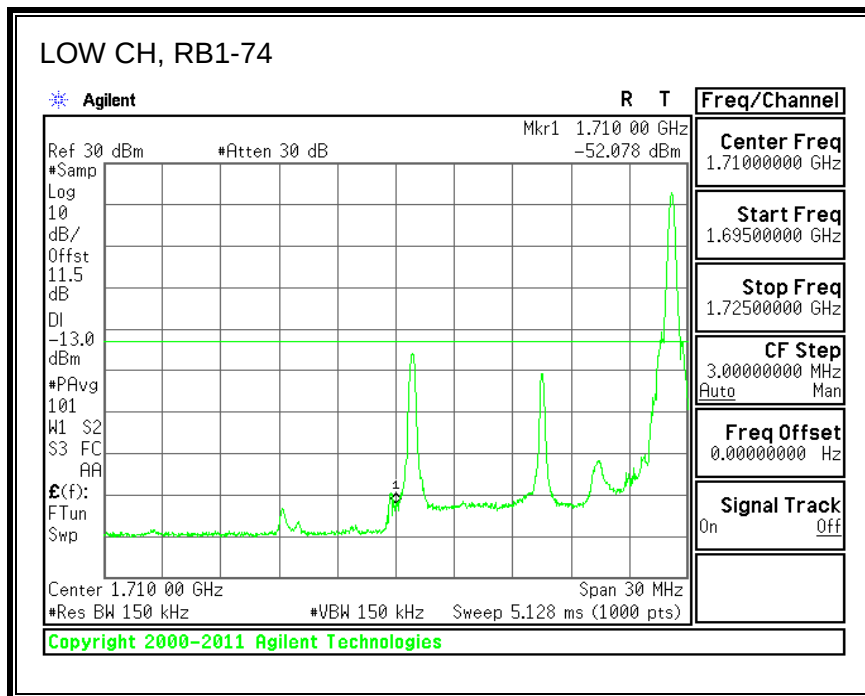


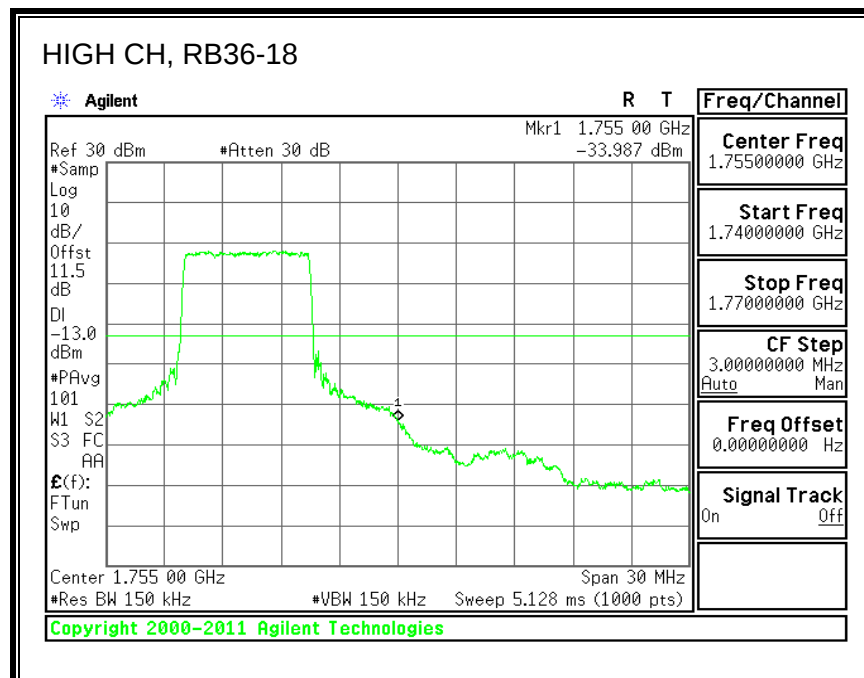
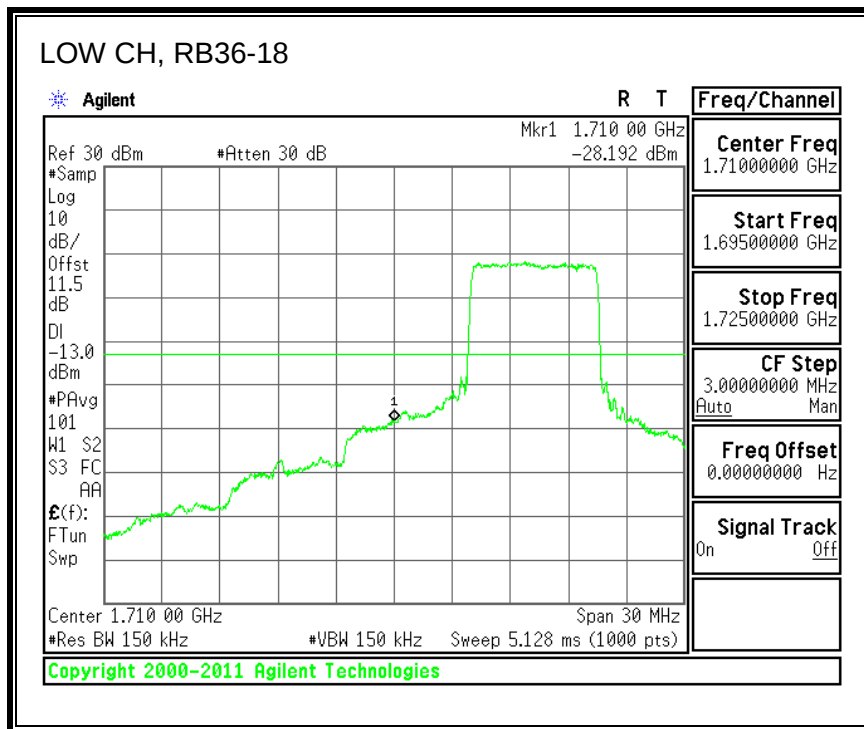


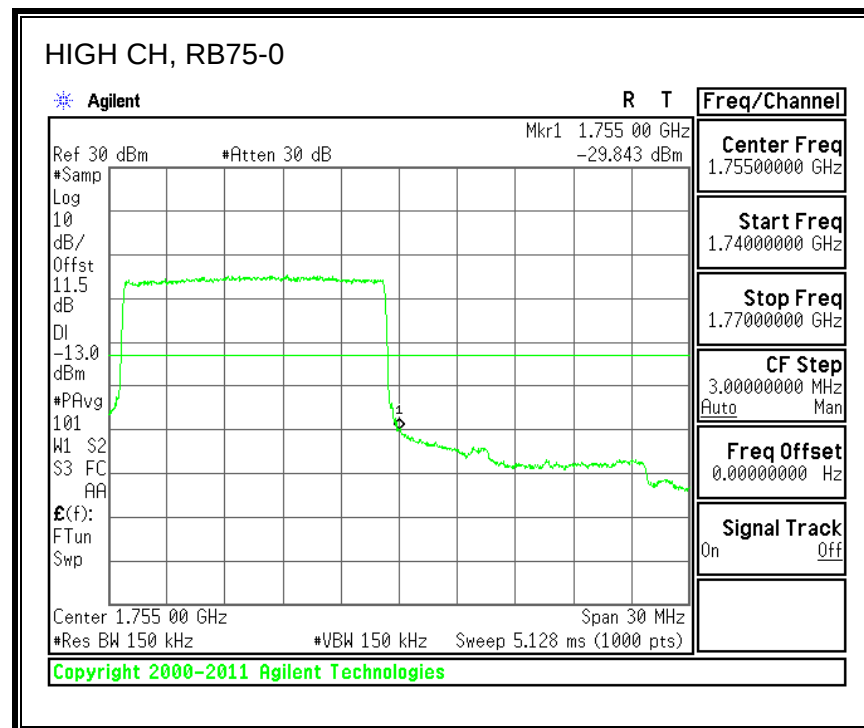
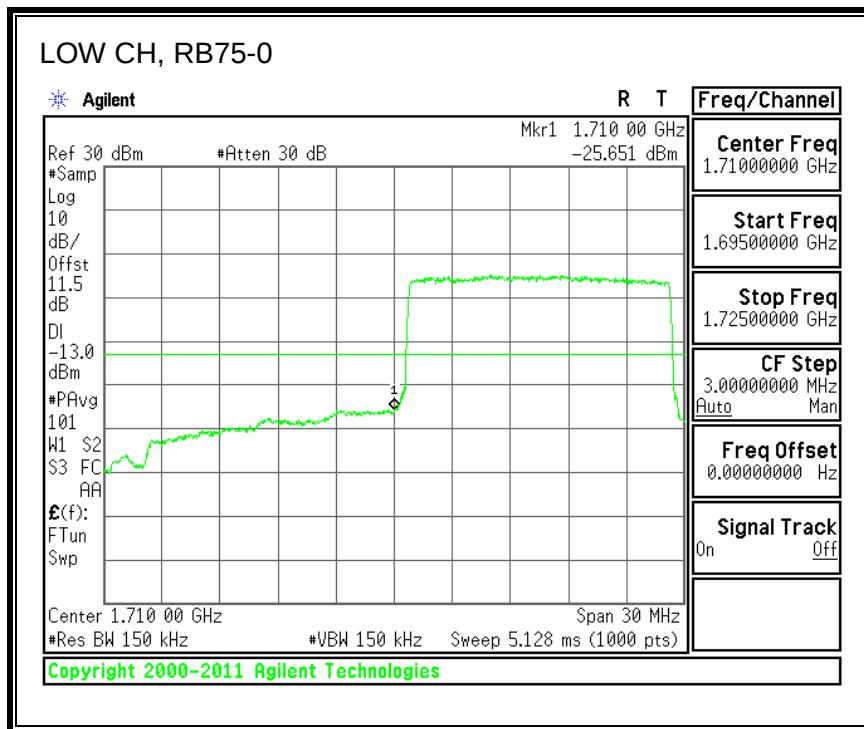


QPSK, (15.0 MHz BAND WIDTH)

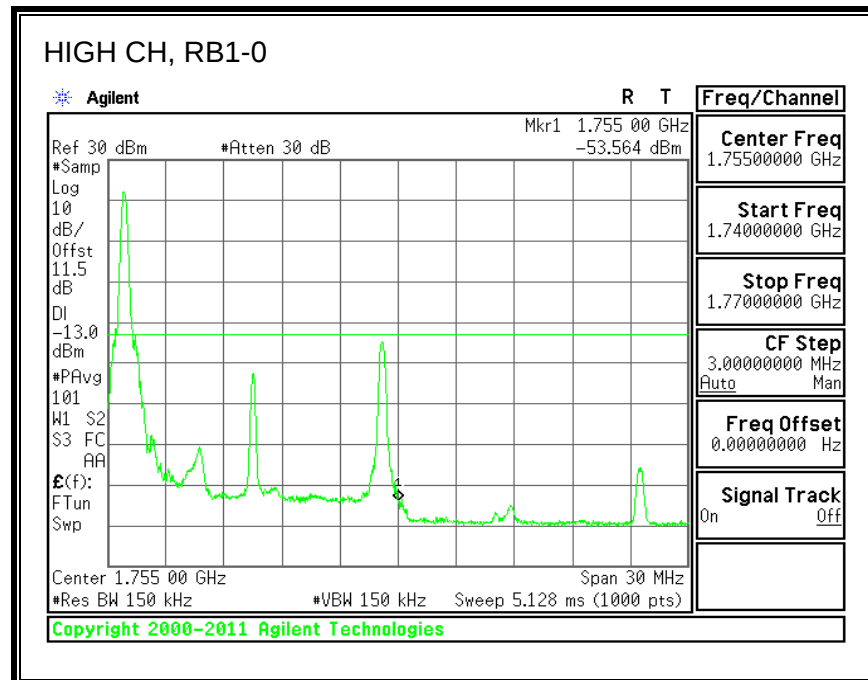
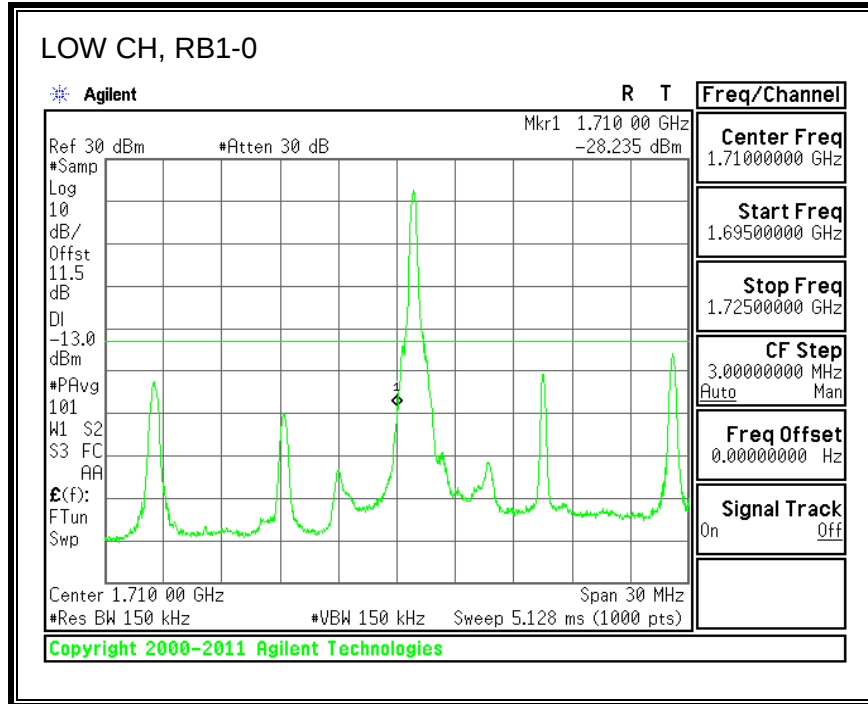


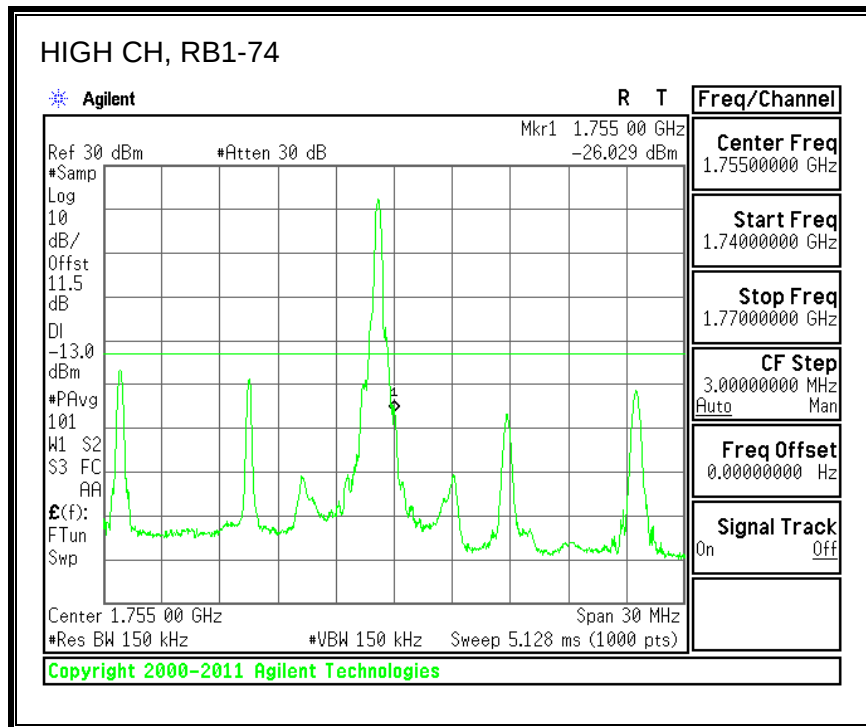
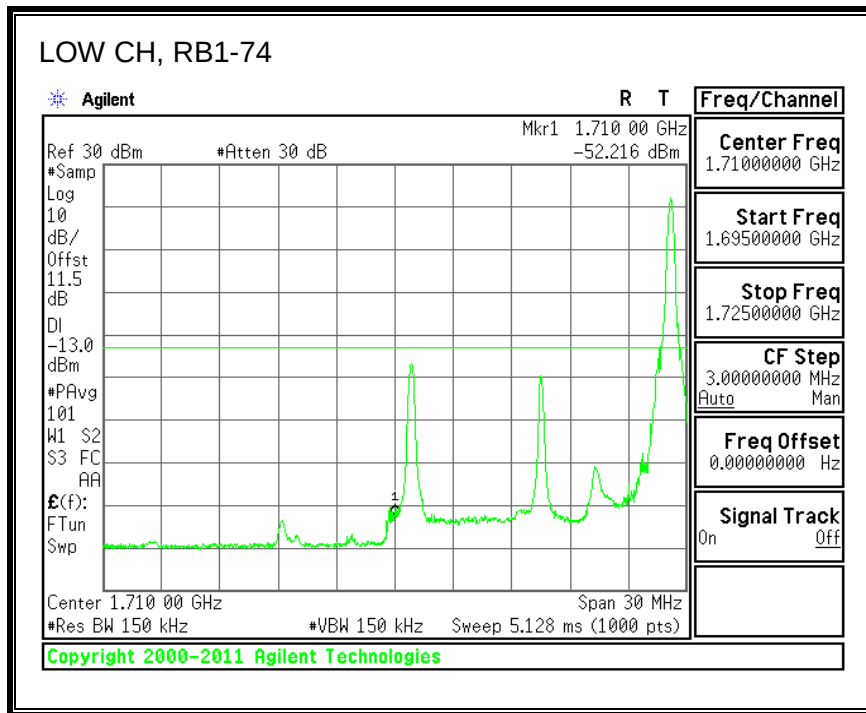


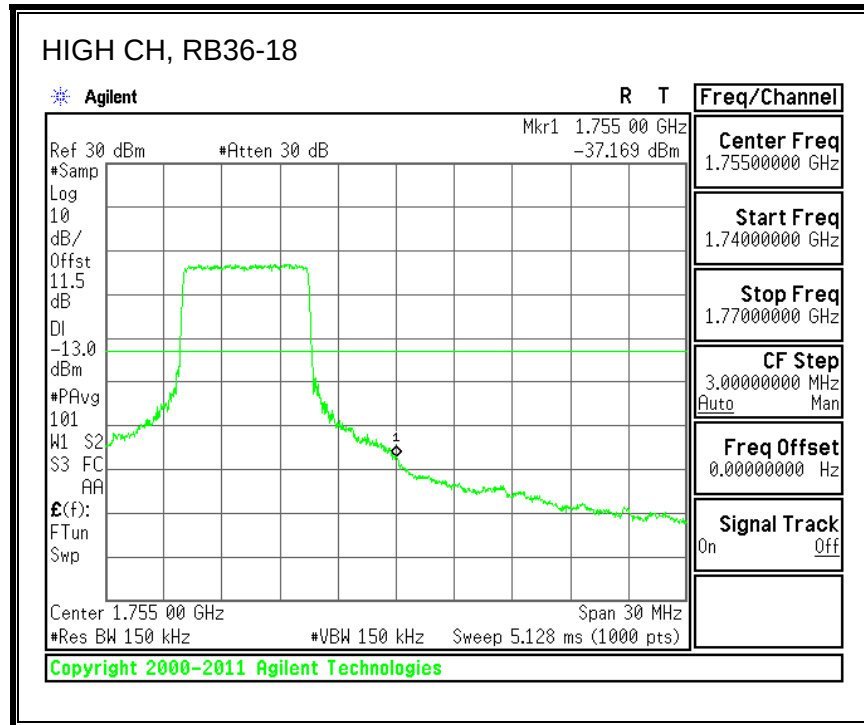
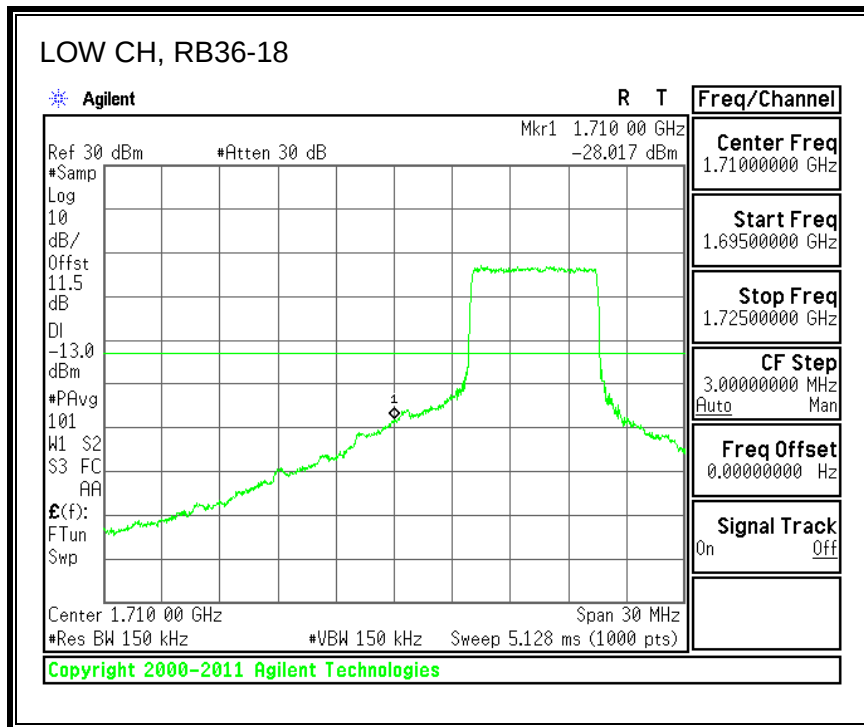


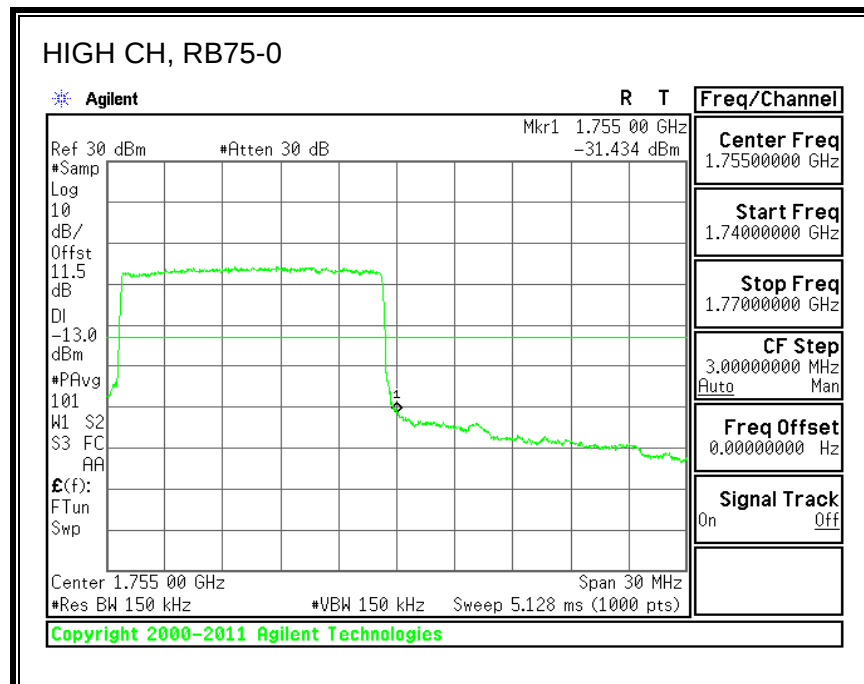
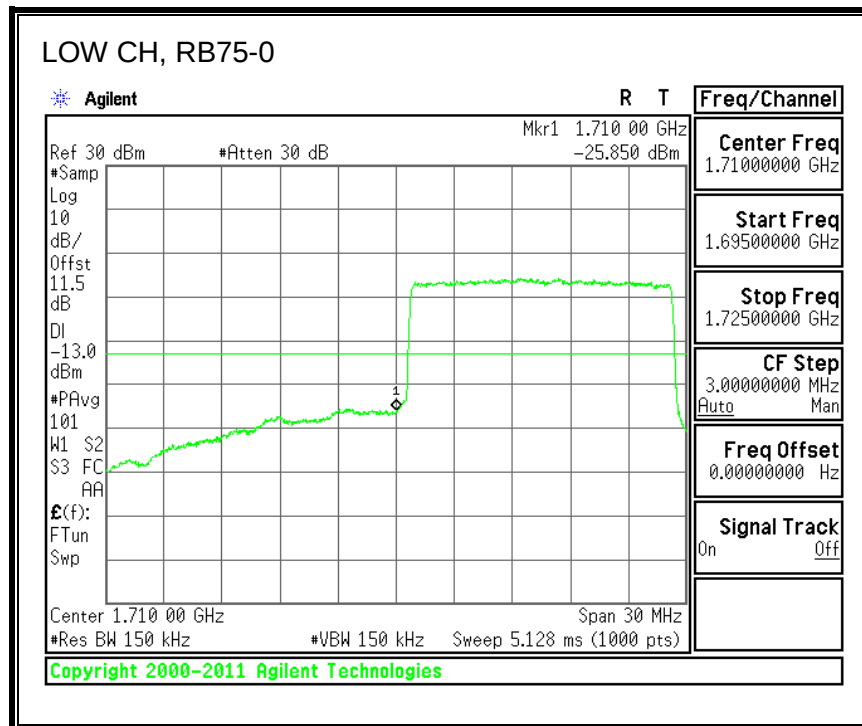


16QAM, (15.0 MHz BAND WIDTH)

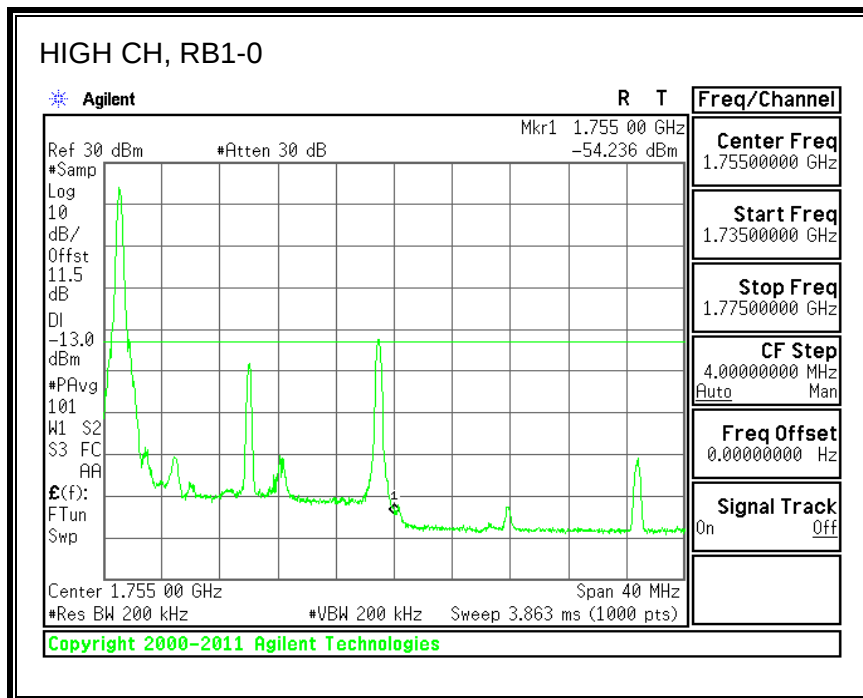
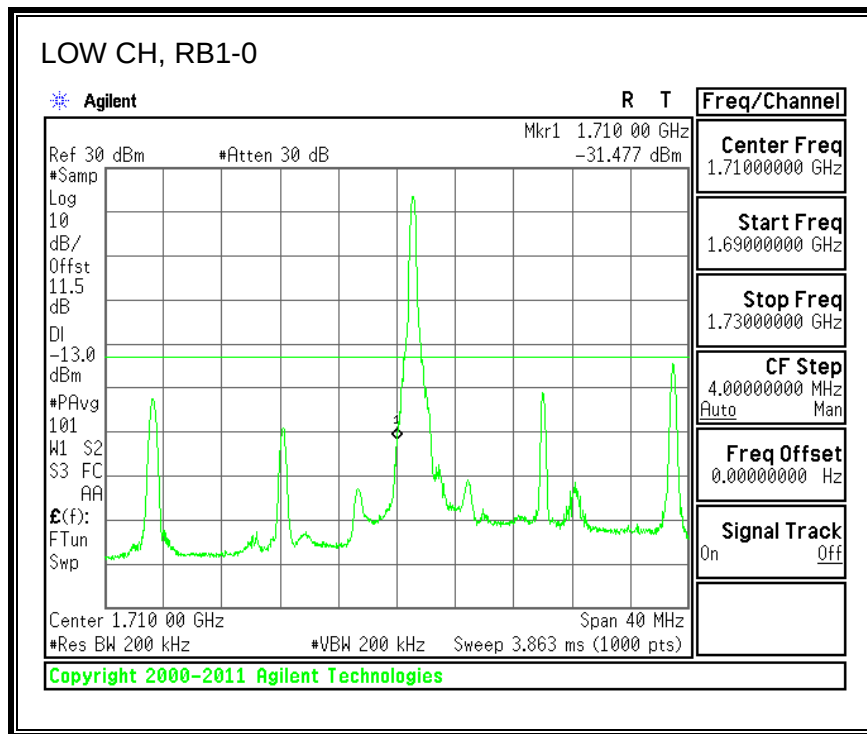


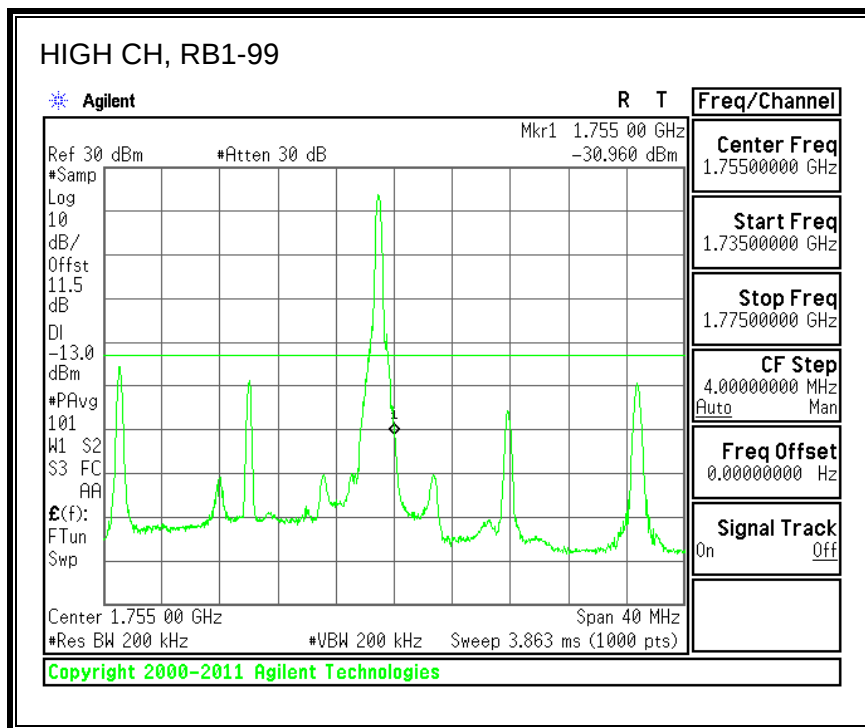
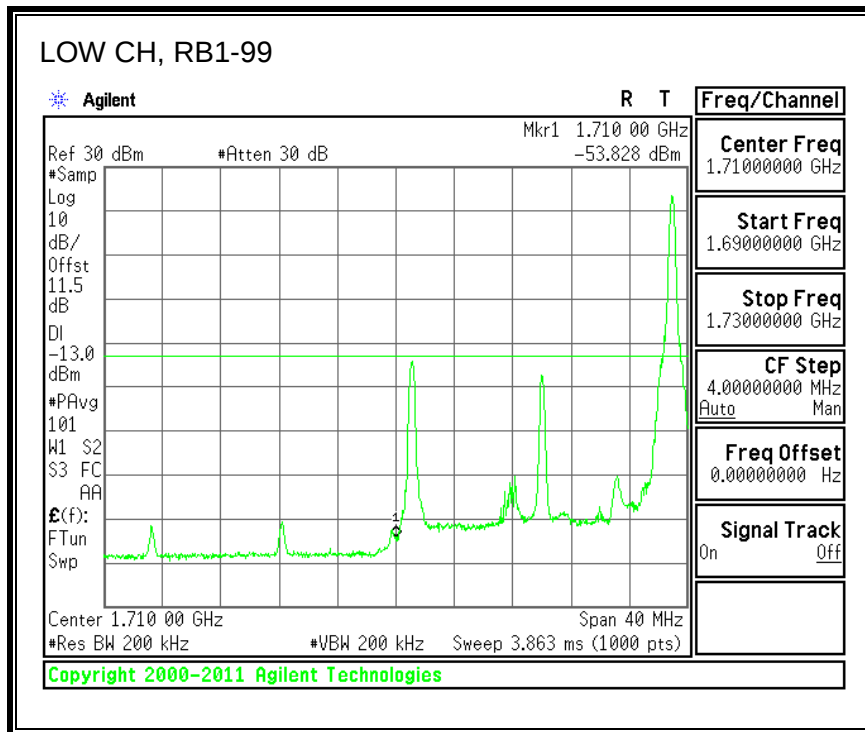


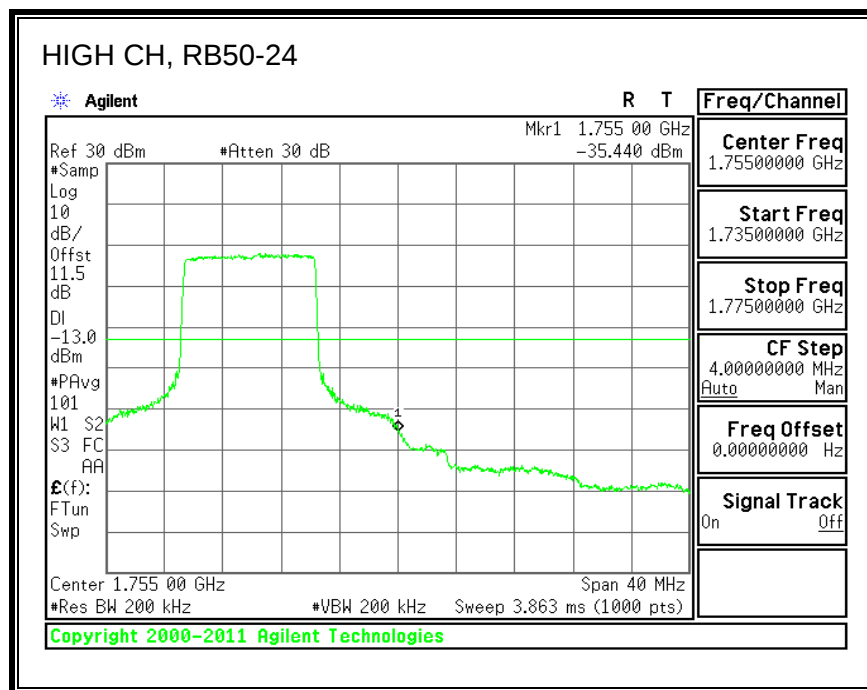
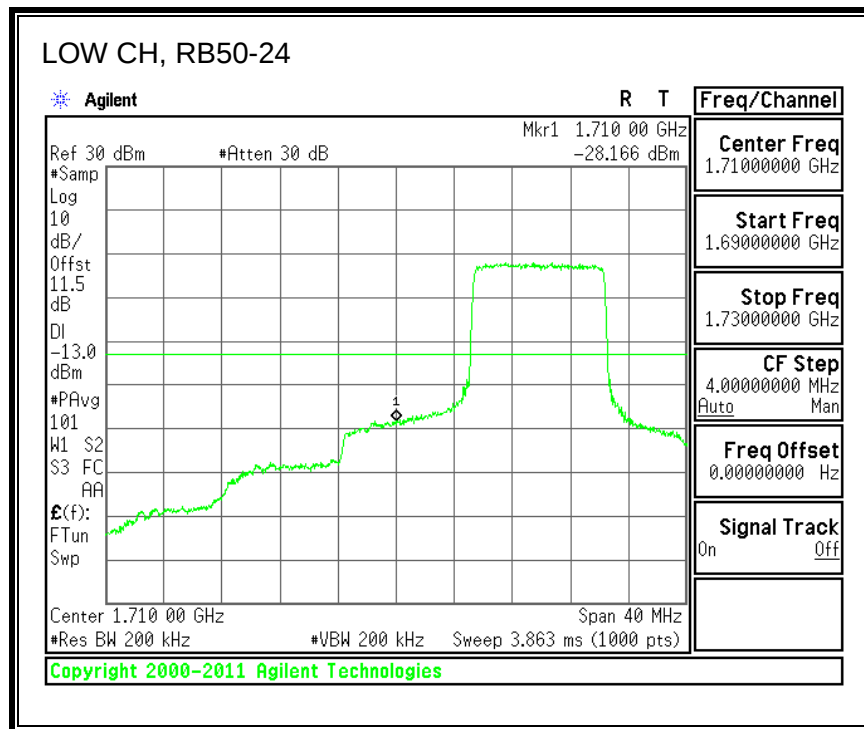


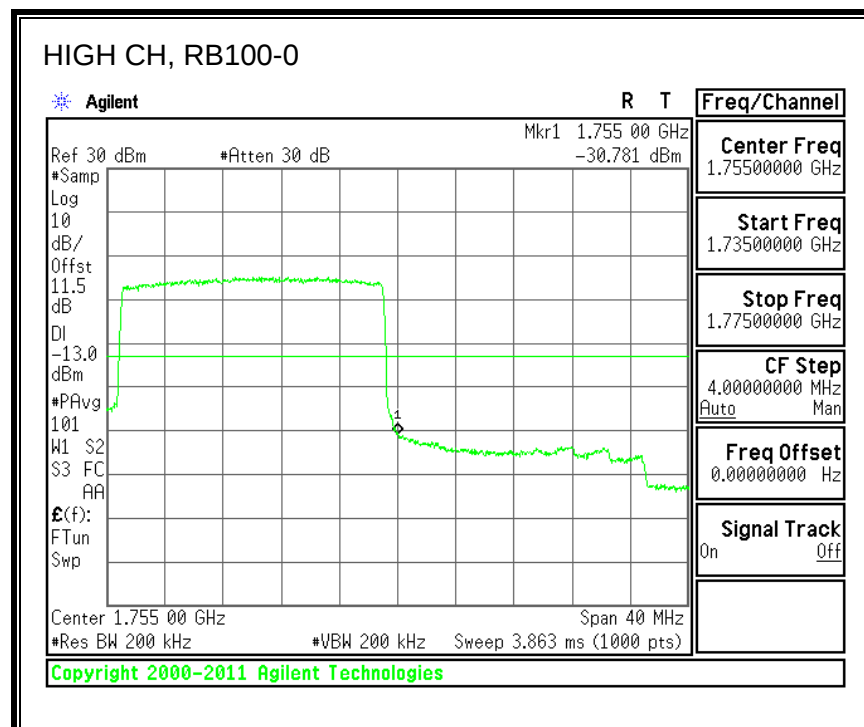
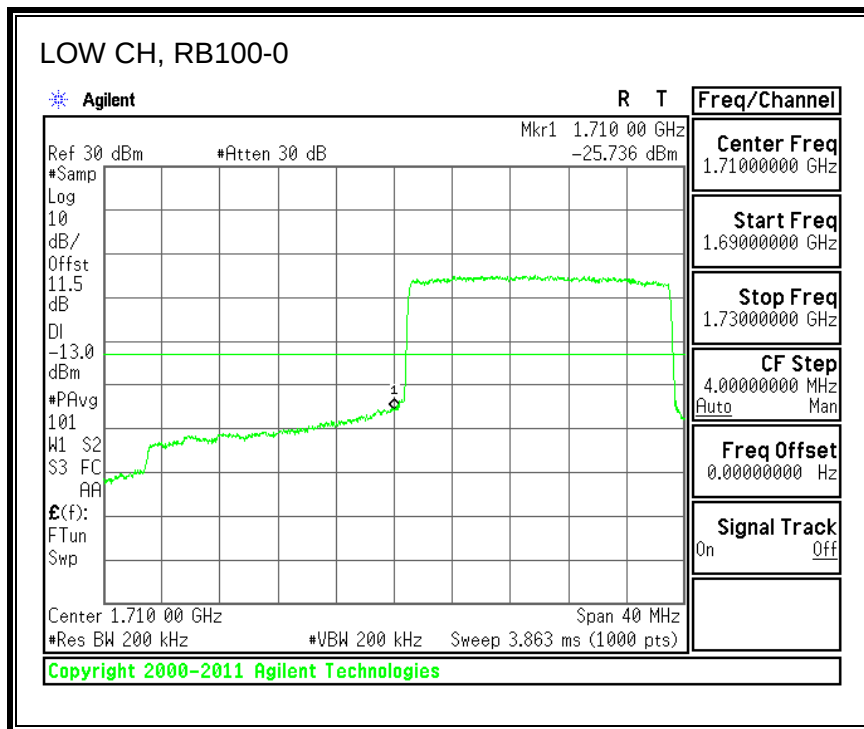


QPSK, (20.0 MHz BAND WIDTH)

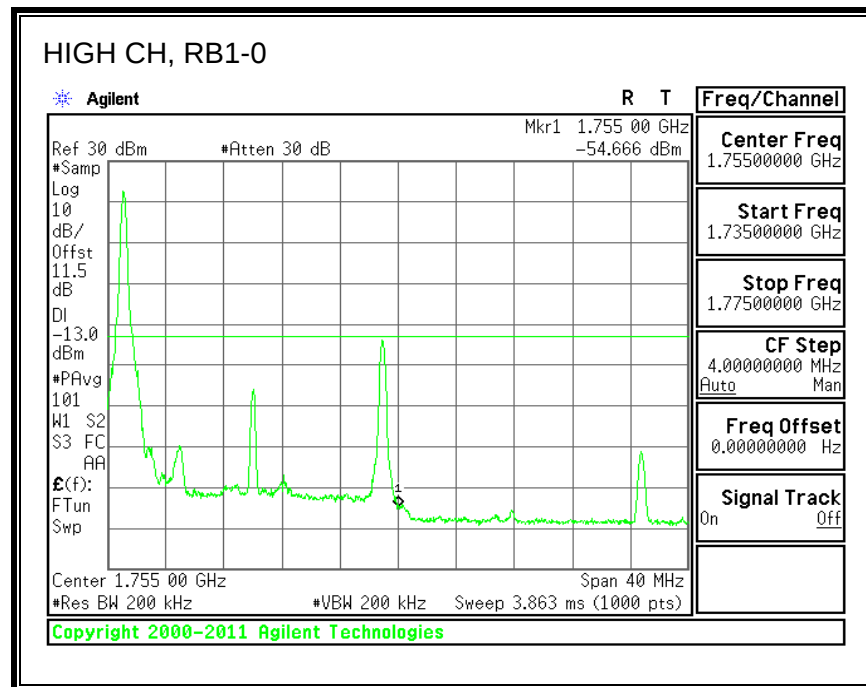
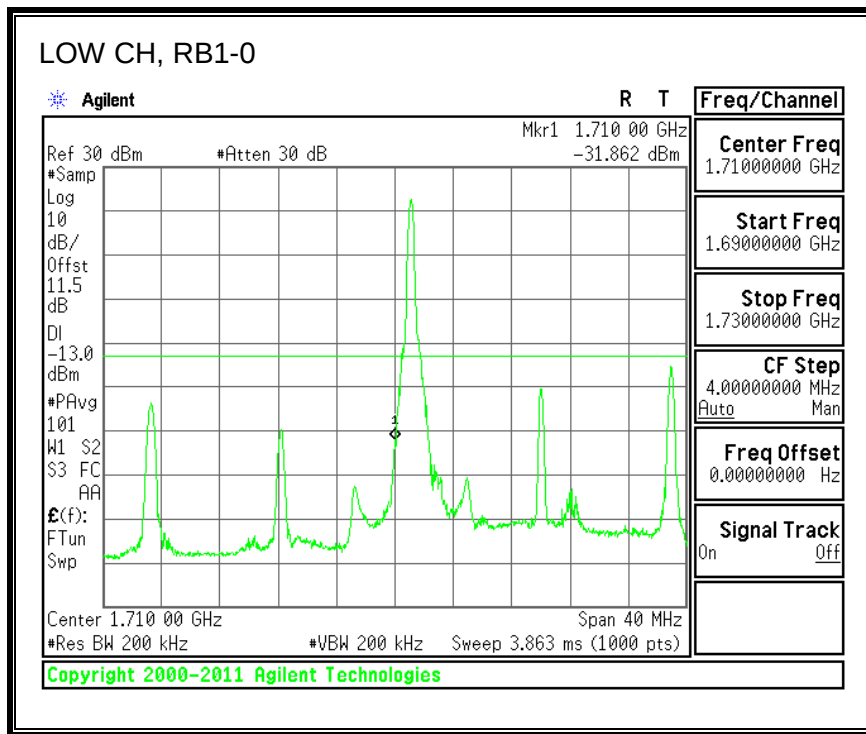


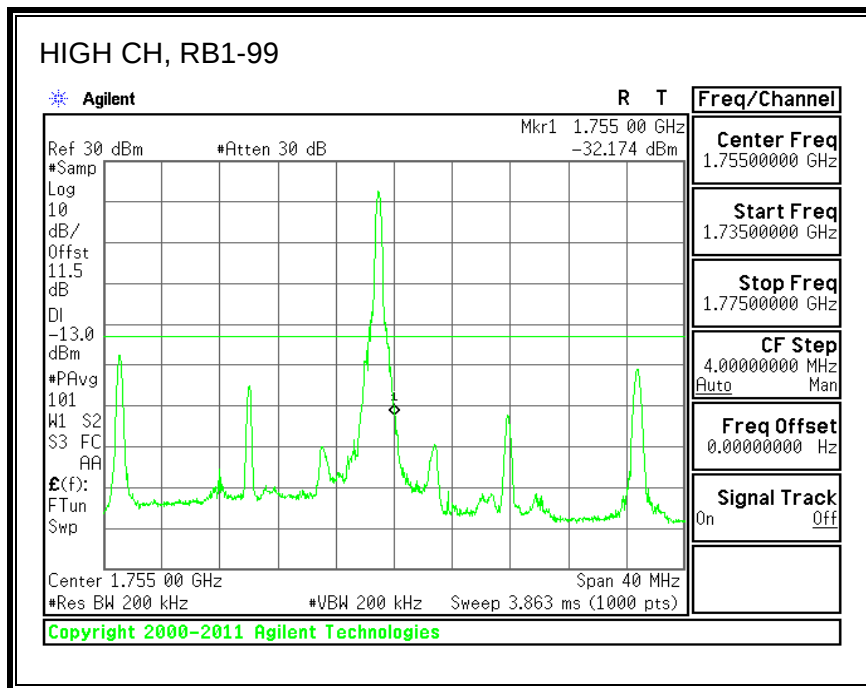
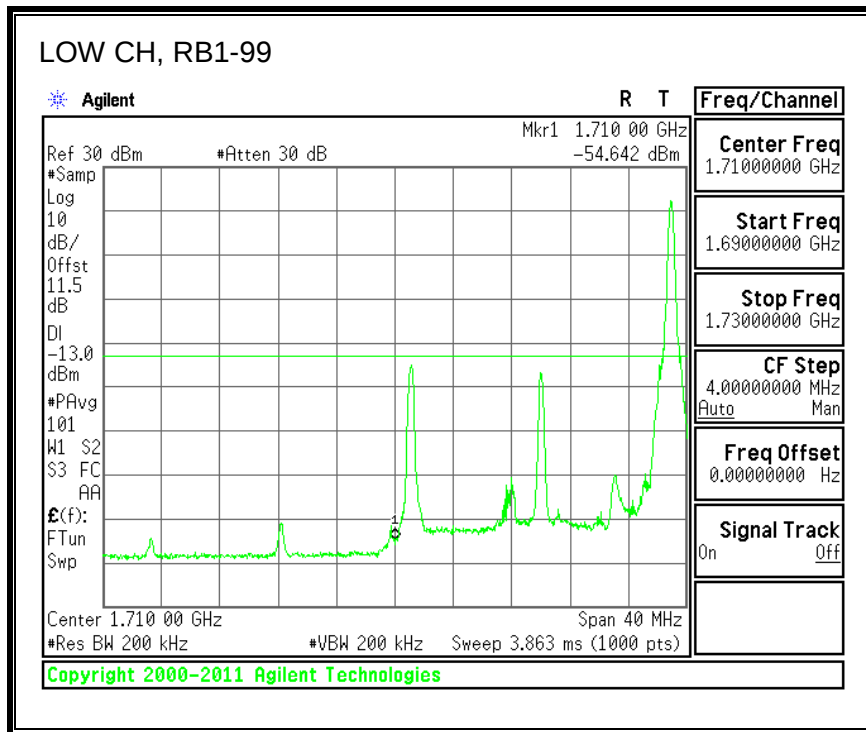


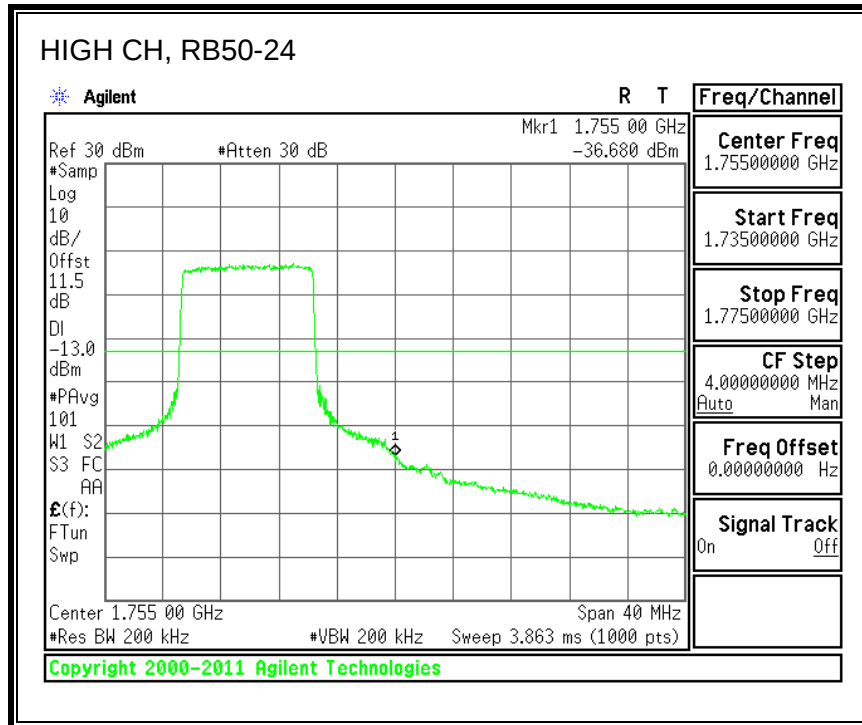
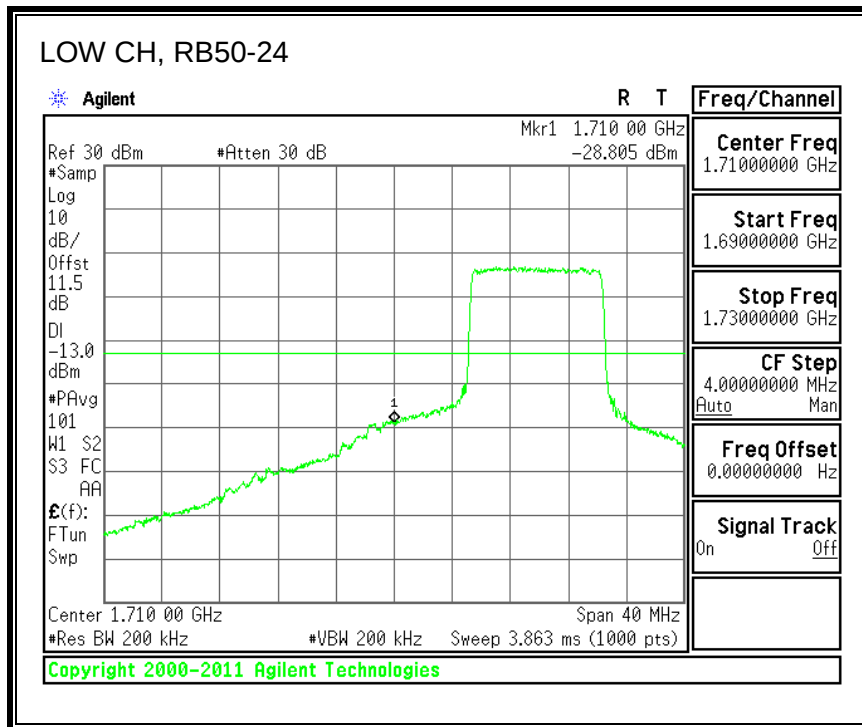


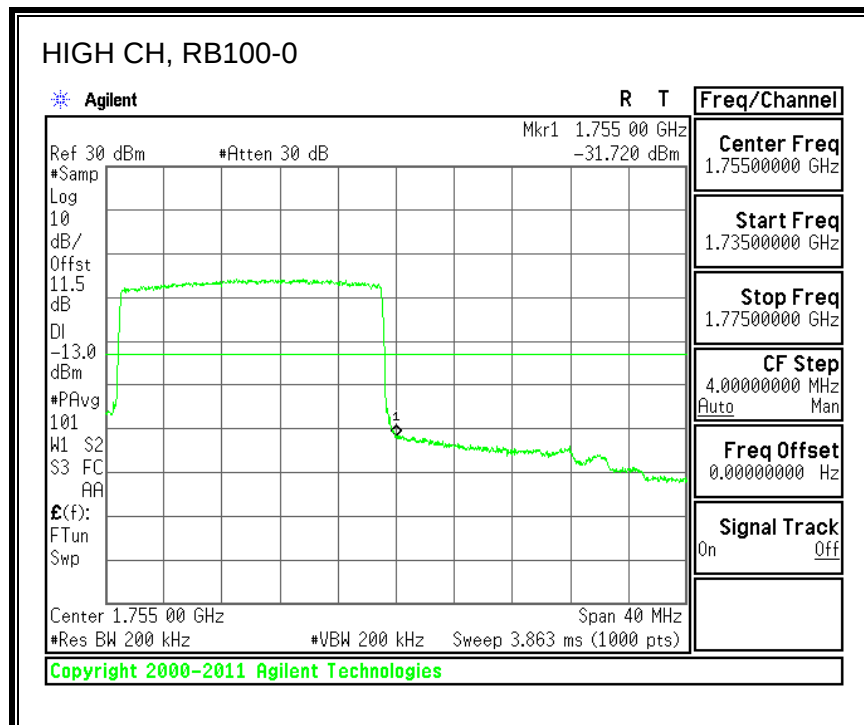
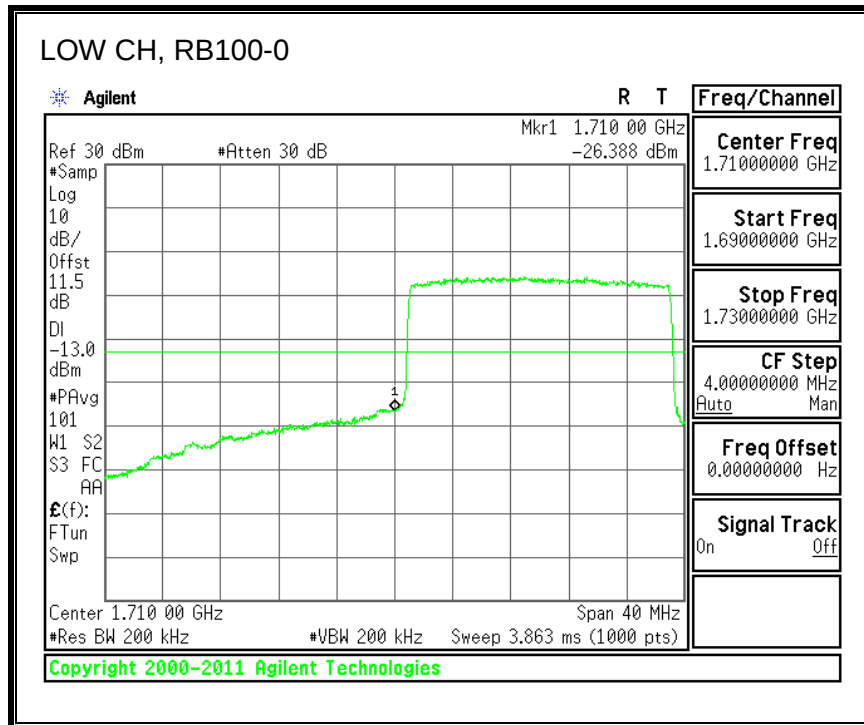


16QAM, (20.0 MHz BAND WIDTH)



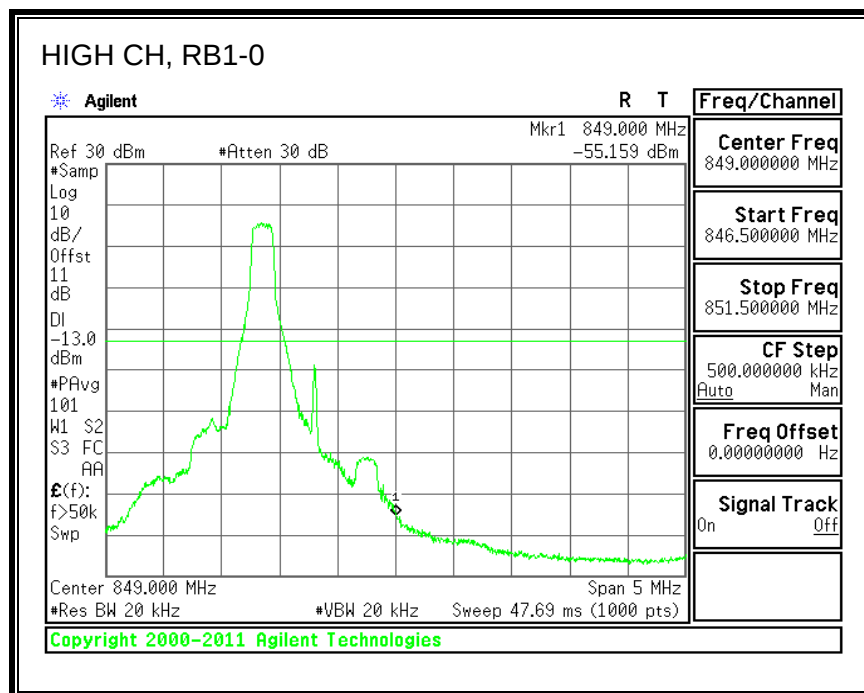
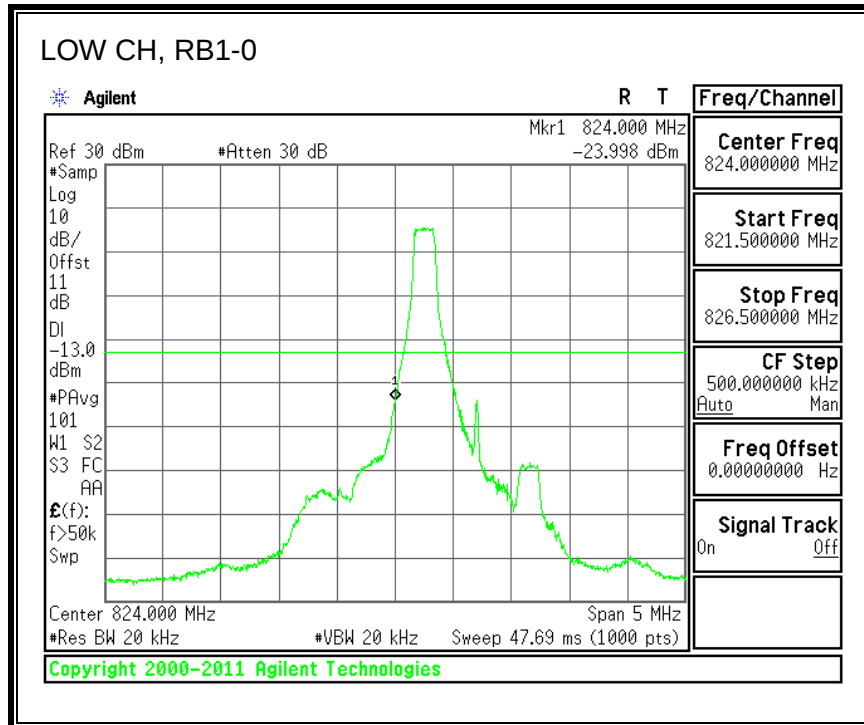


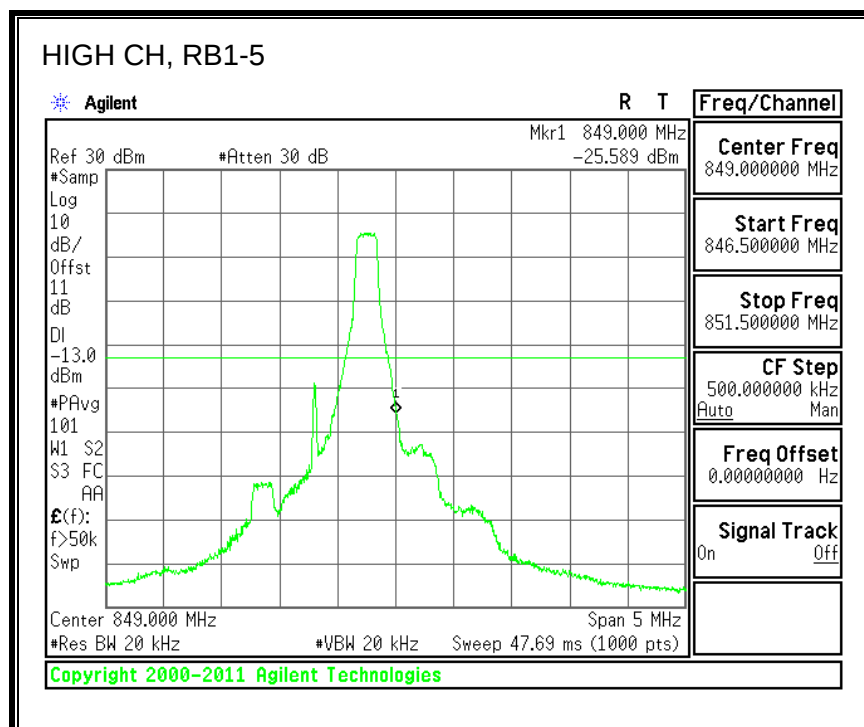
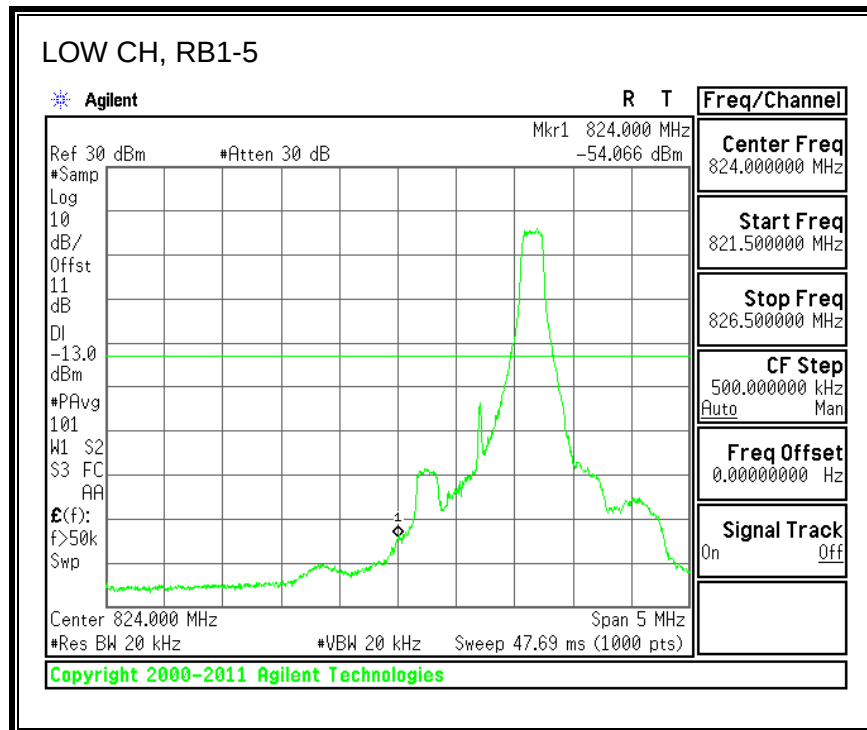


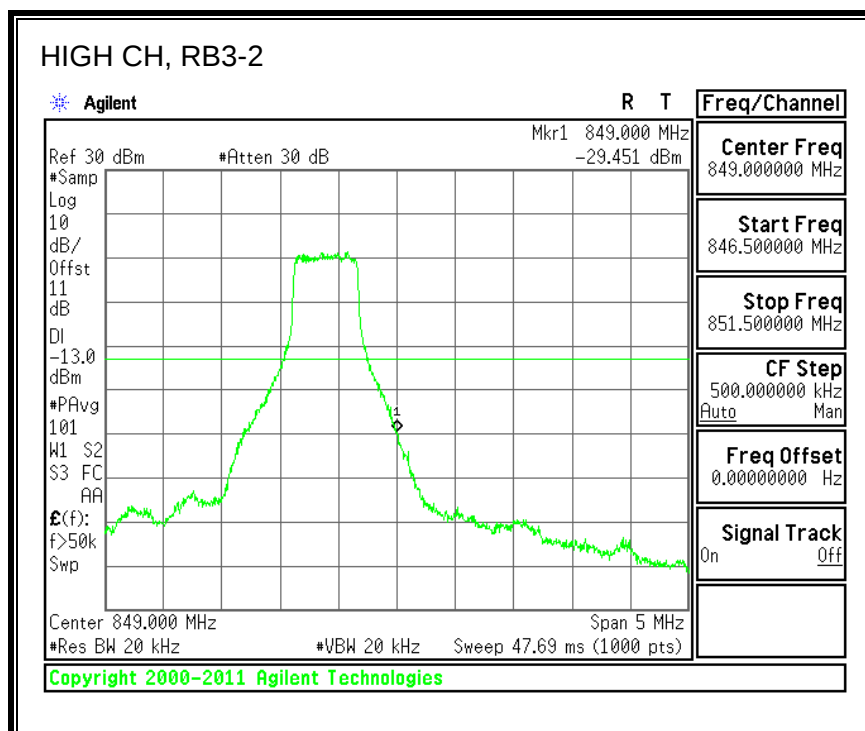
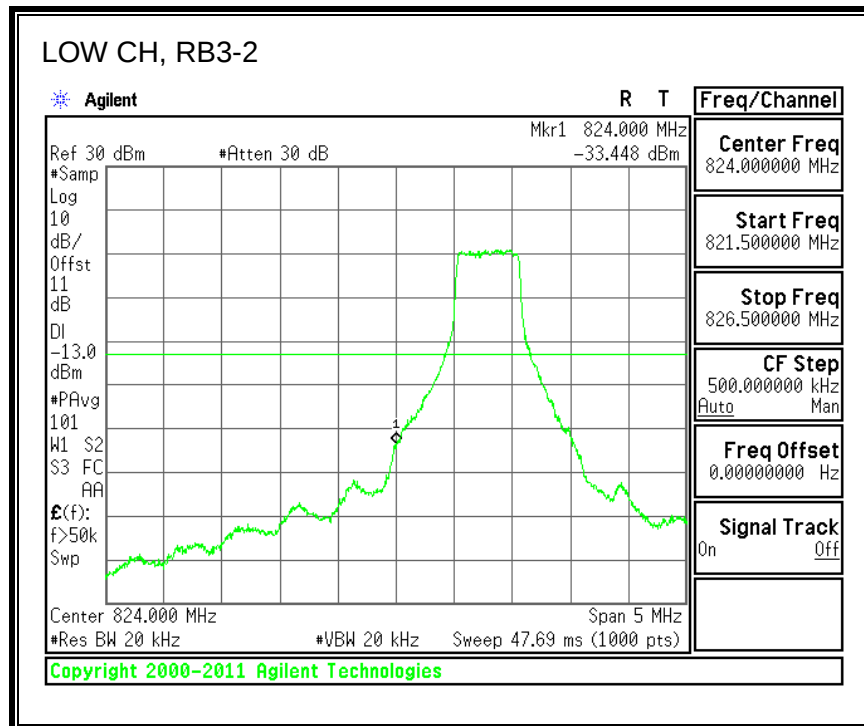


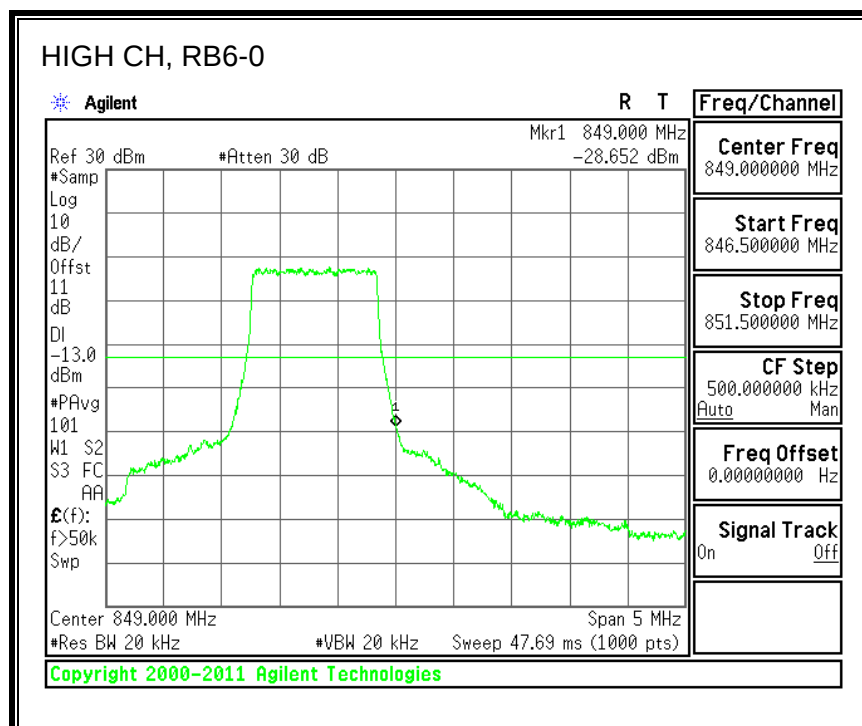
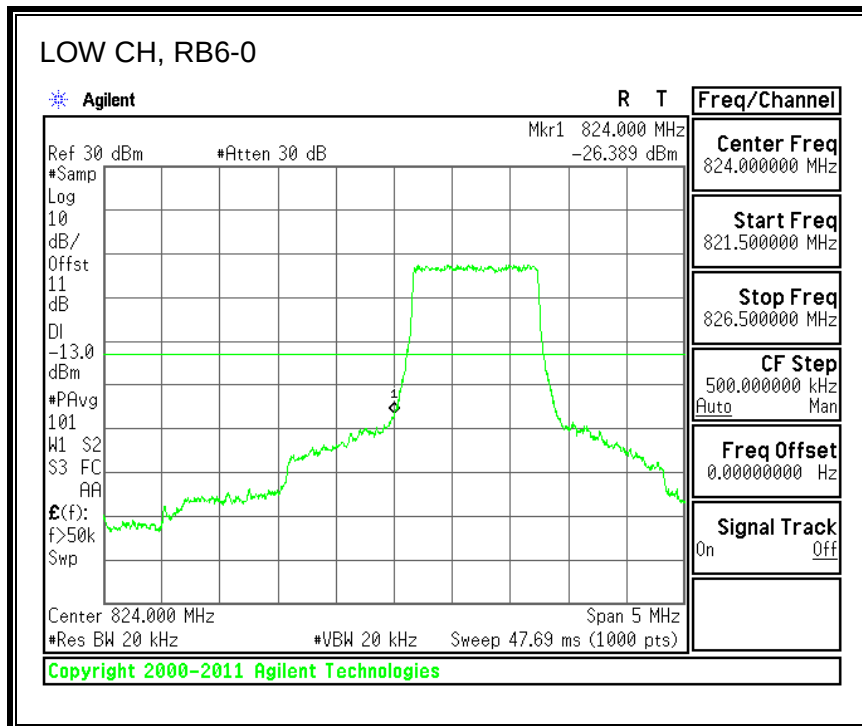
8.2.3. LTE BAND 5 BANDEDGE

QPSK, (1.4 MHz BAND WIDTH)

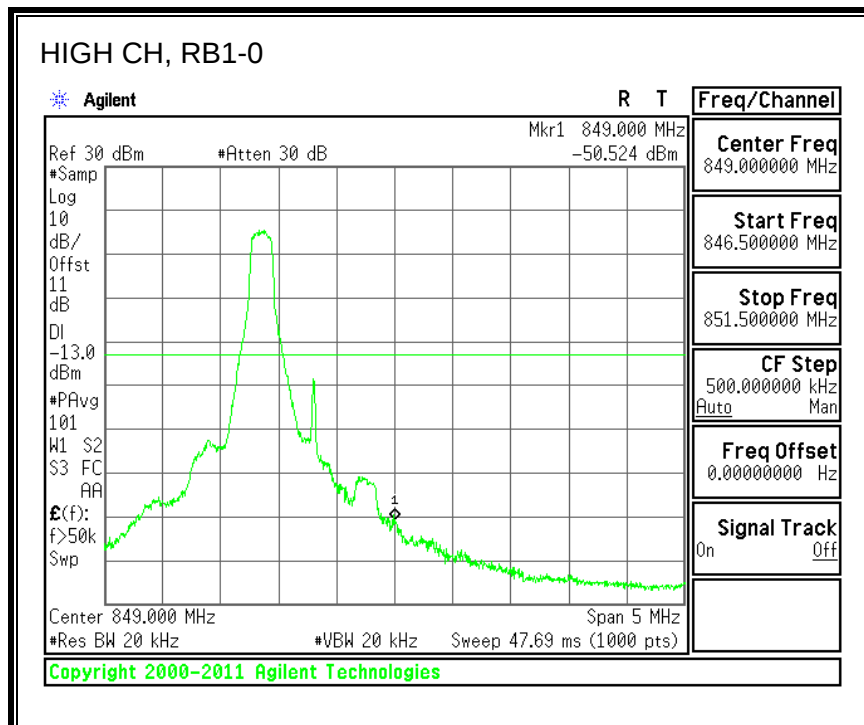
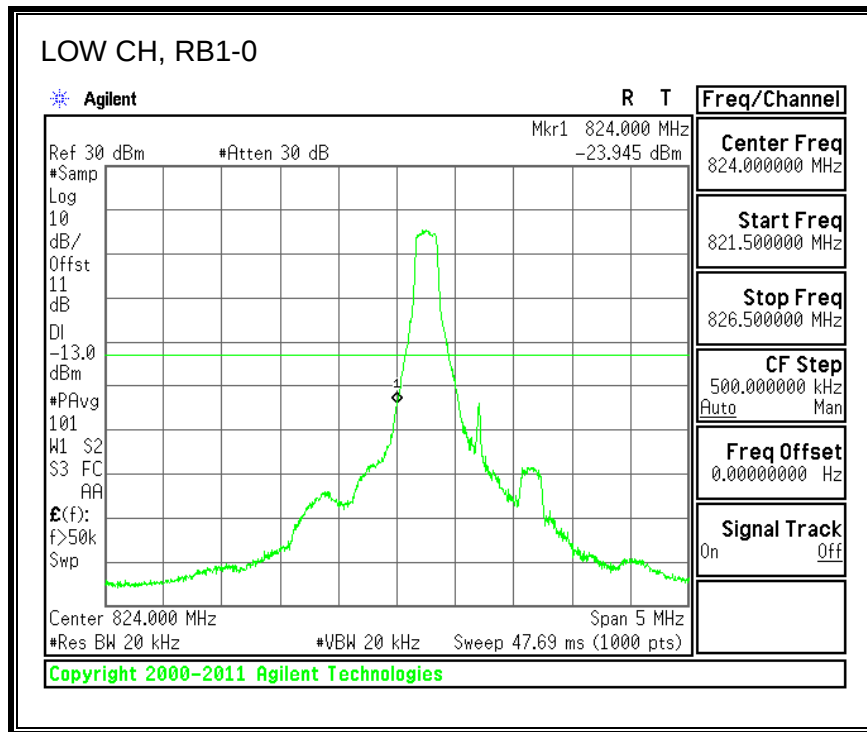


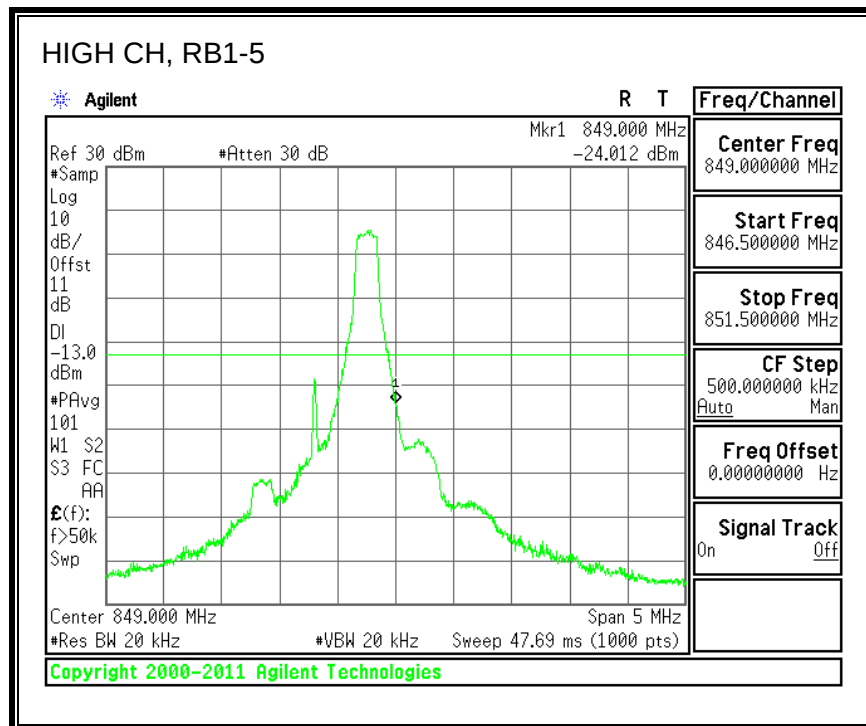
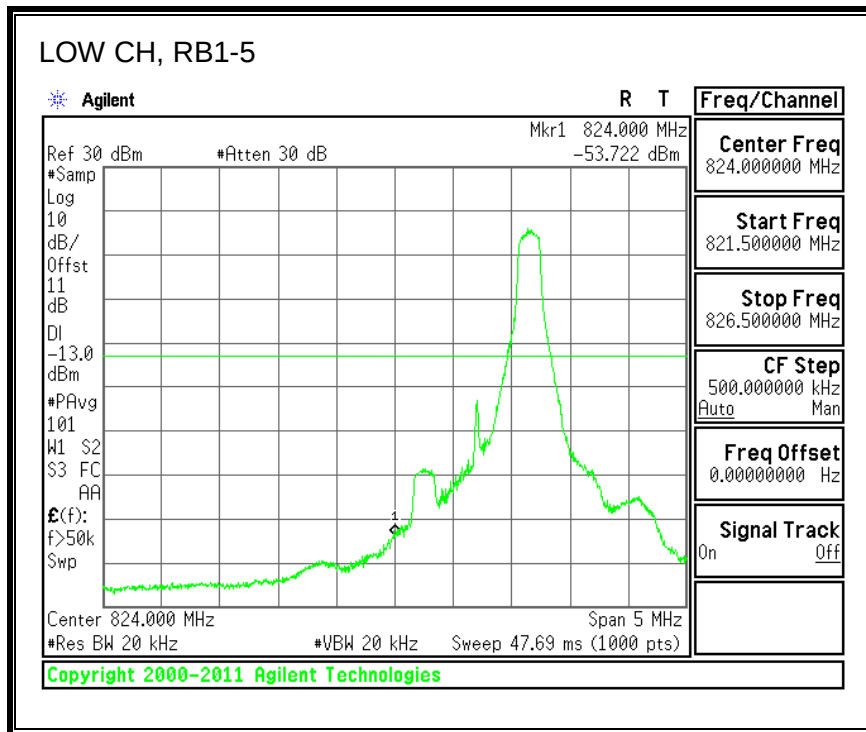


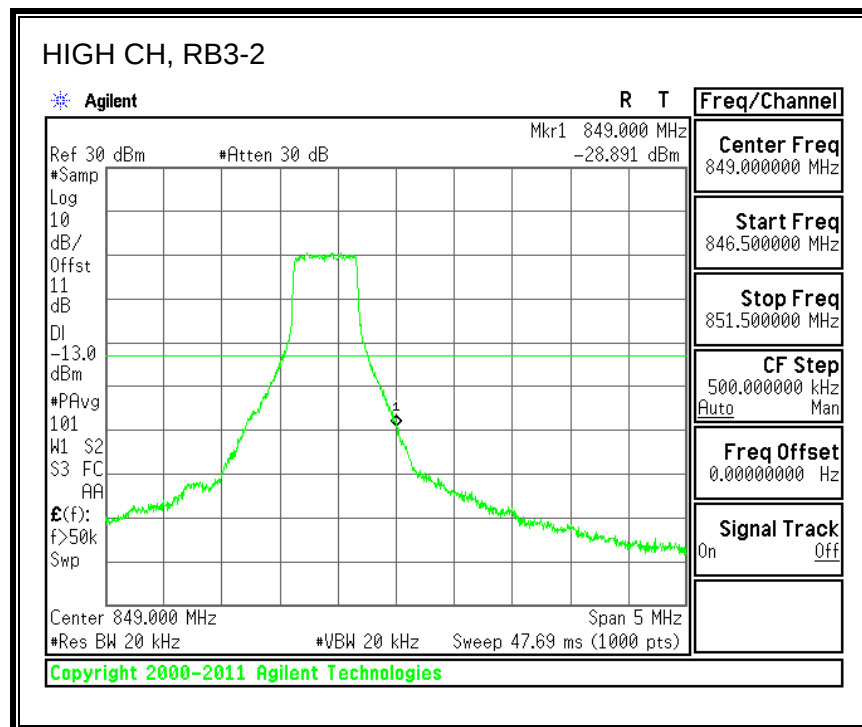
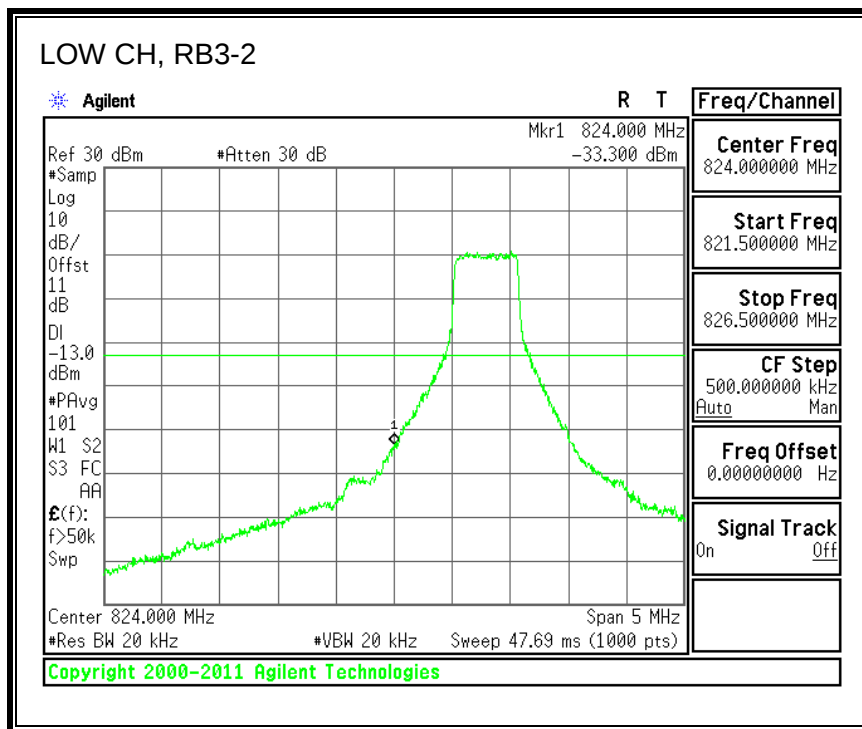


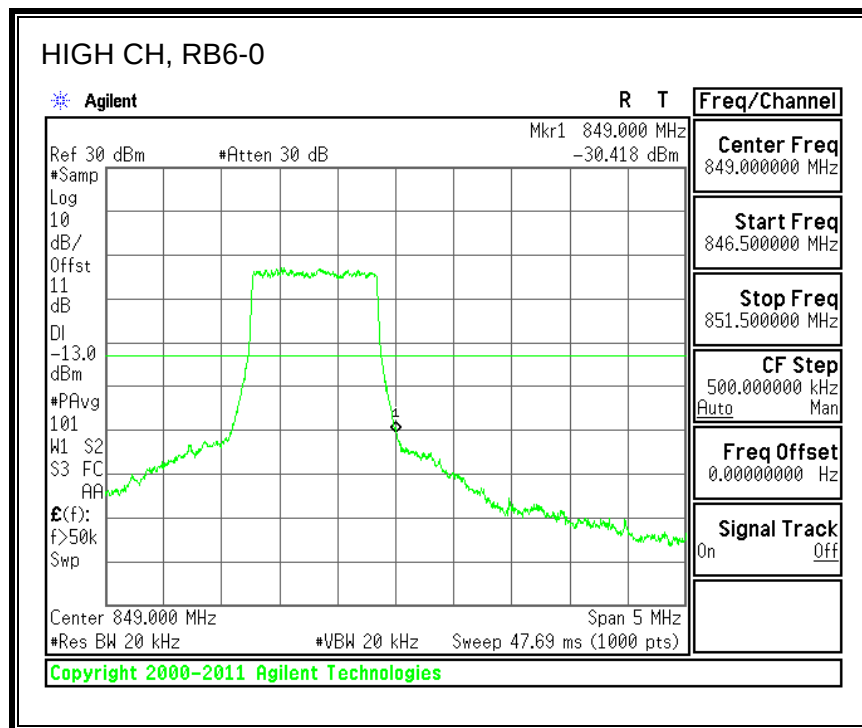
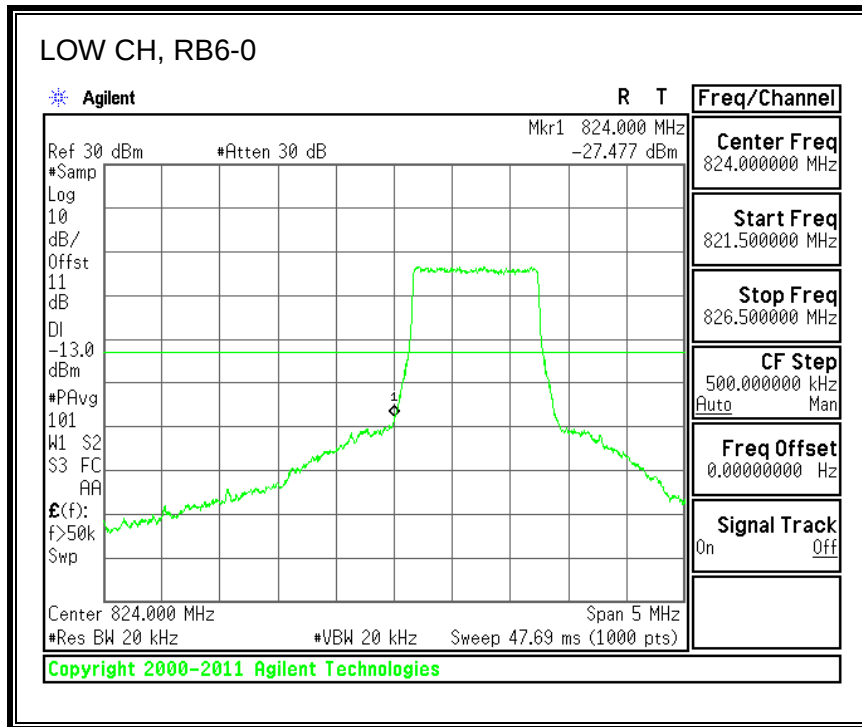


16QAM, (1.4 MHz BAND WIDTH)

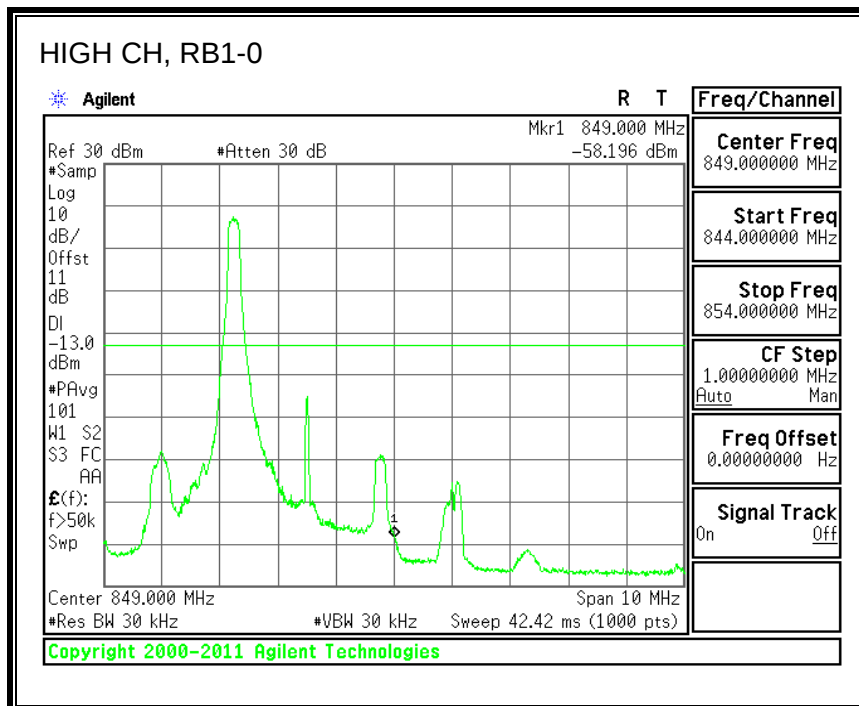
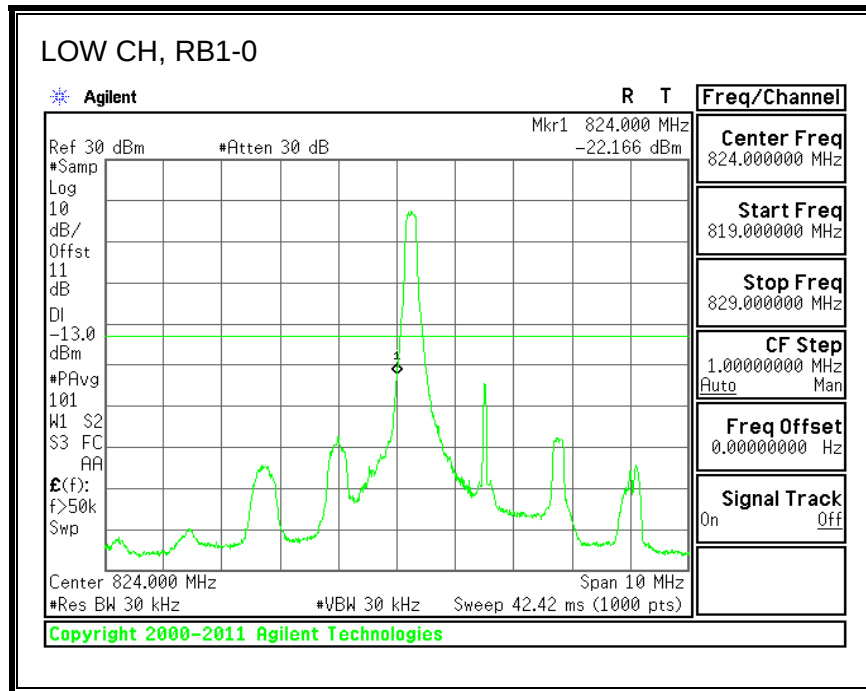


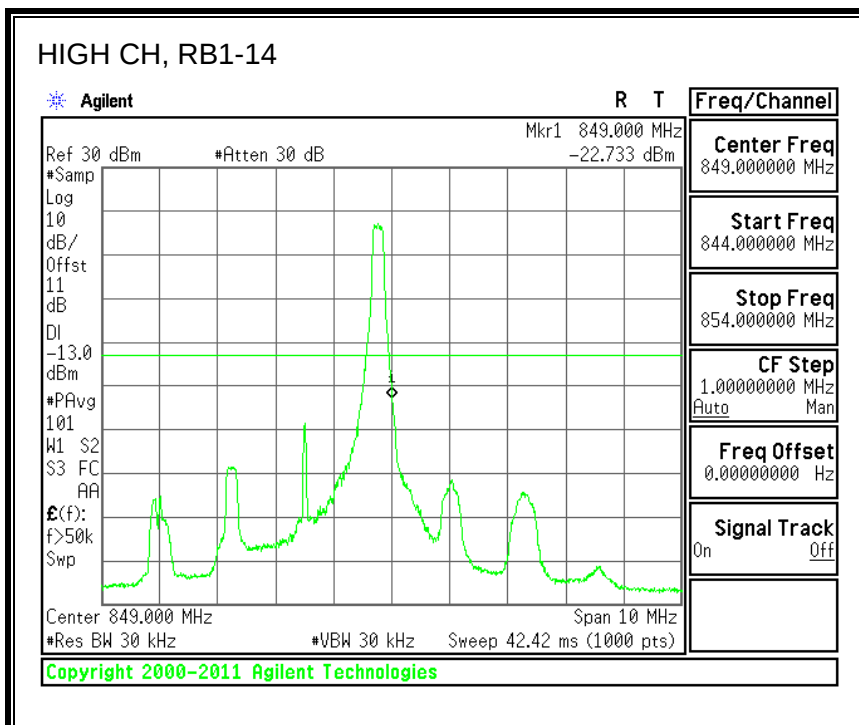
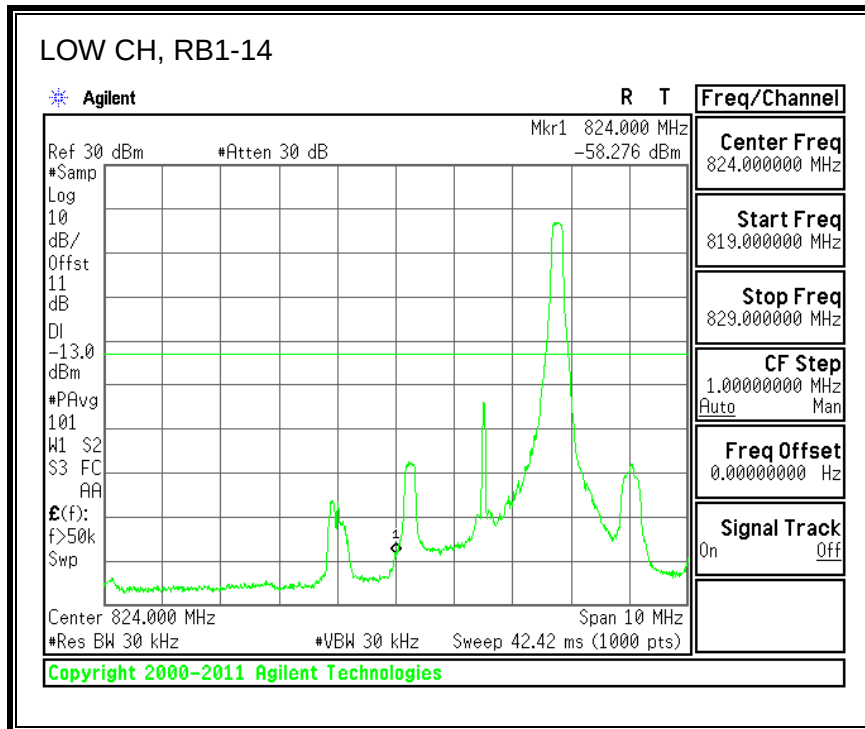


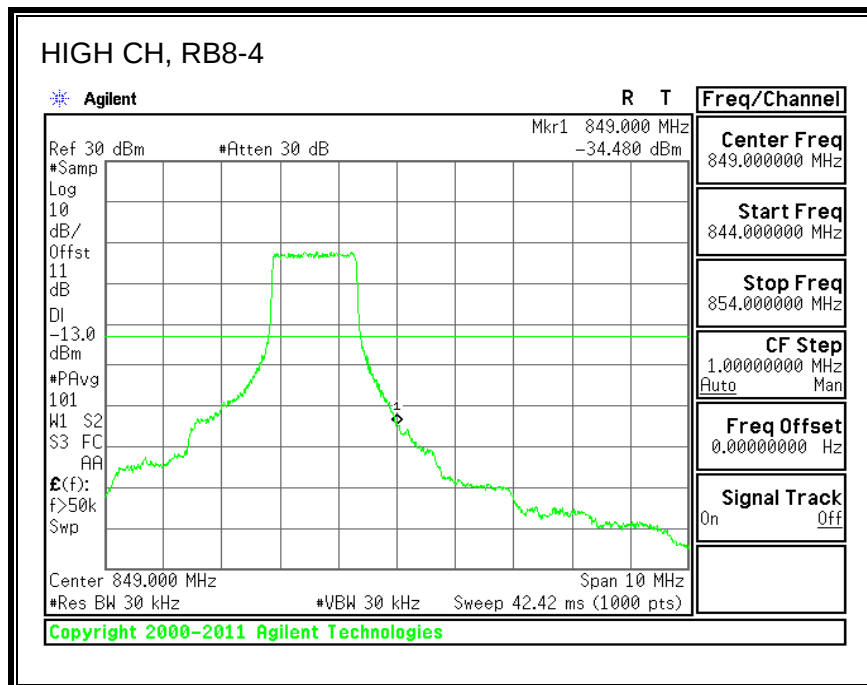
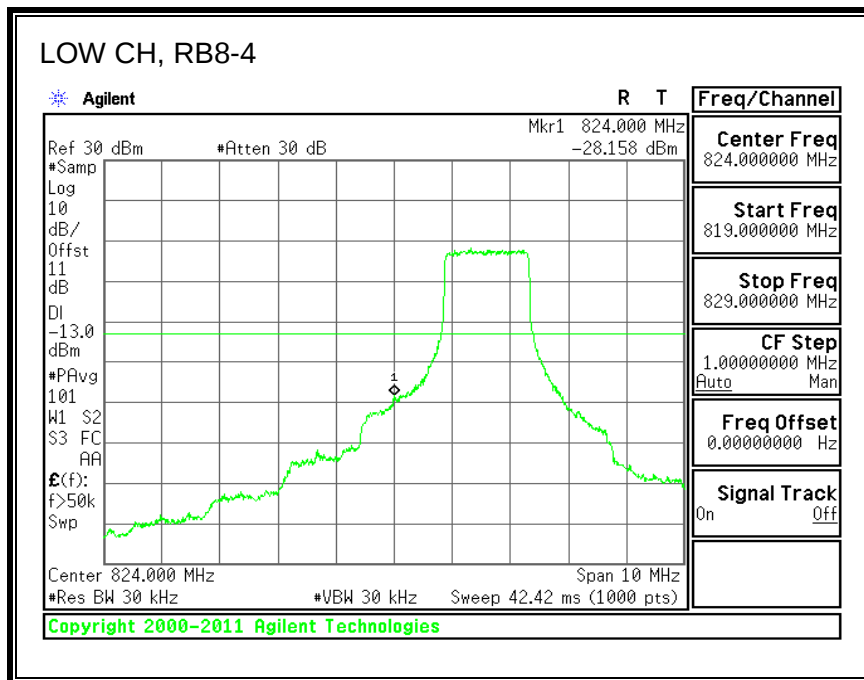


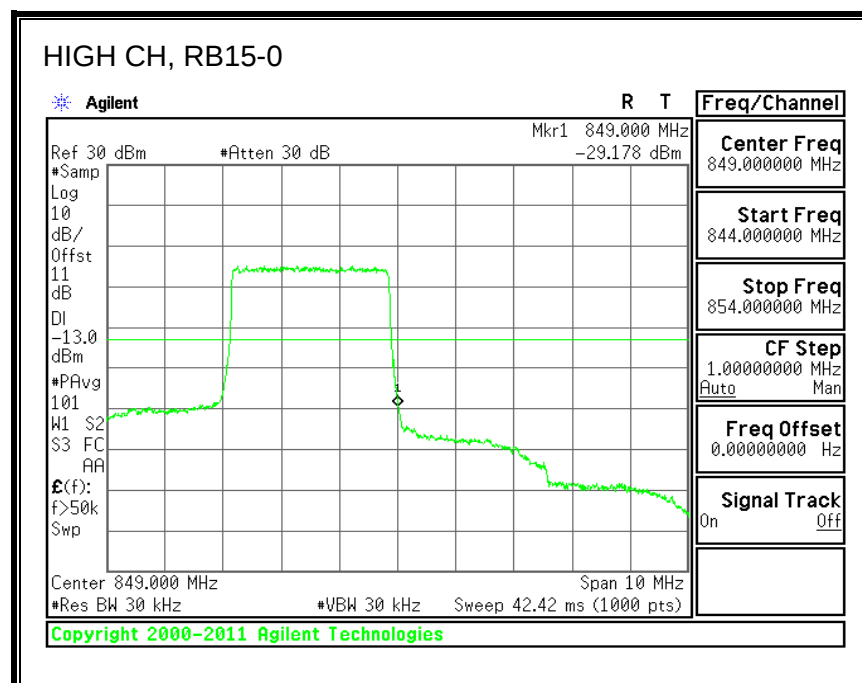
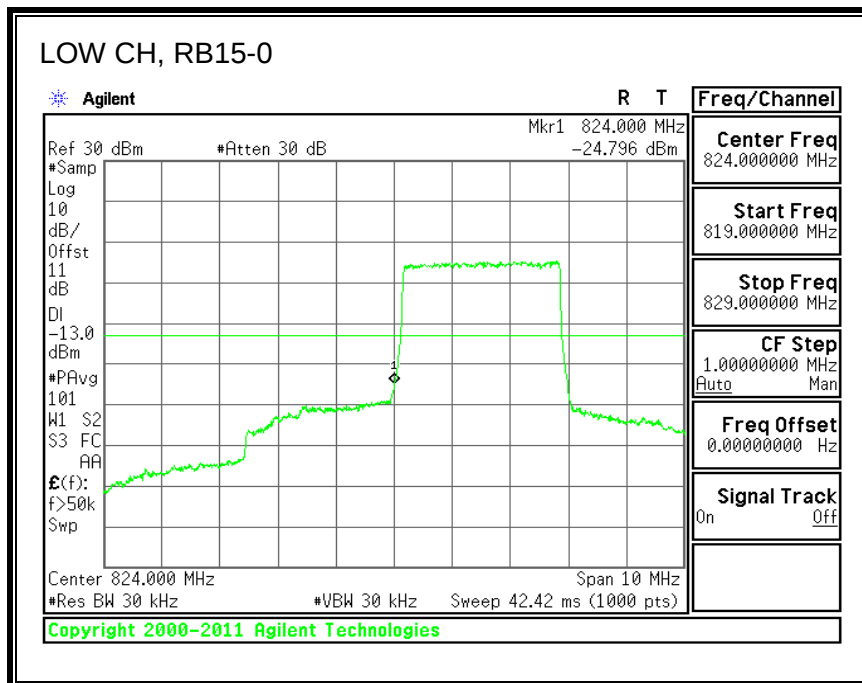


QPSK, (3.0 MHz BAND WIDTH)

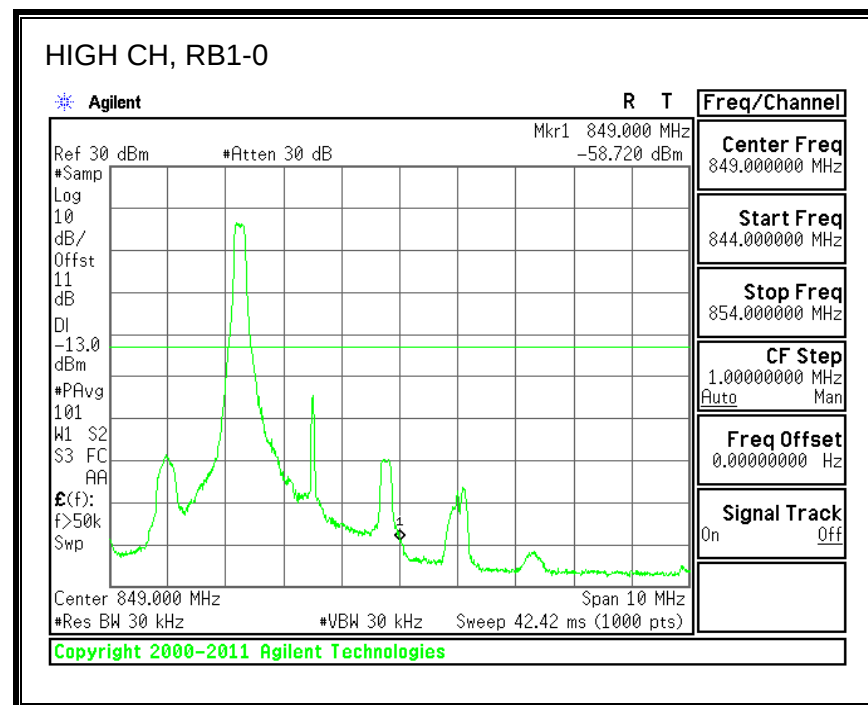
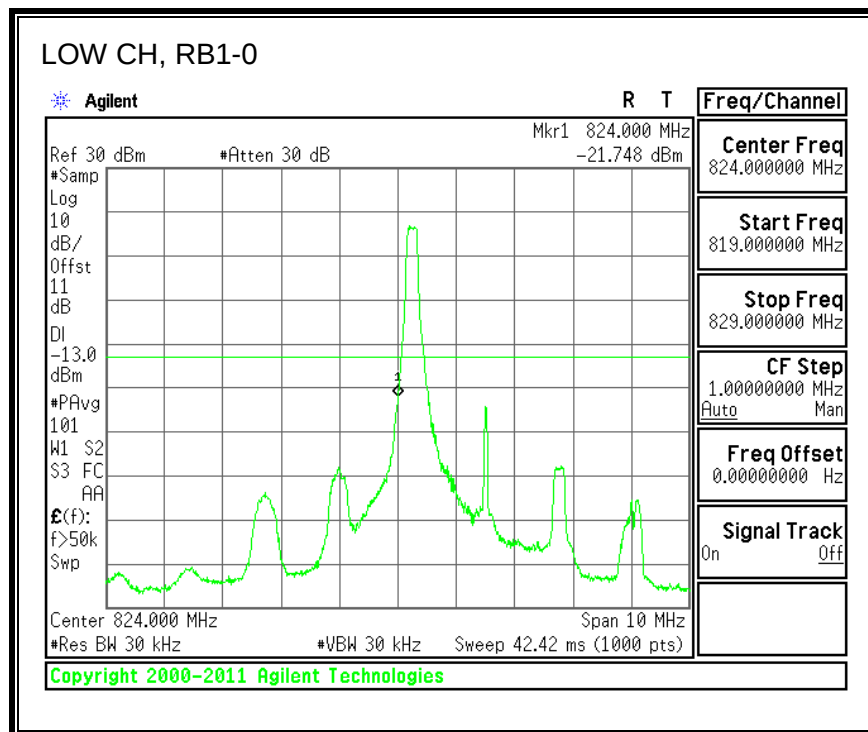


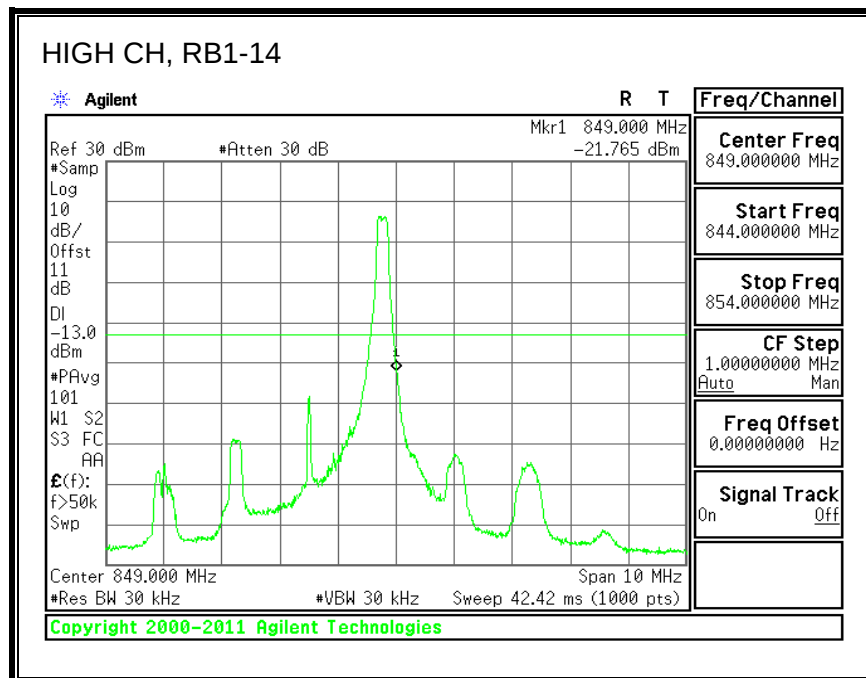
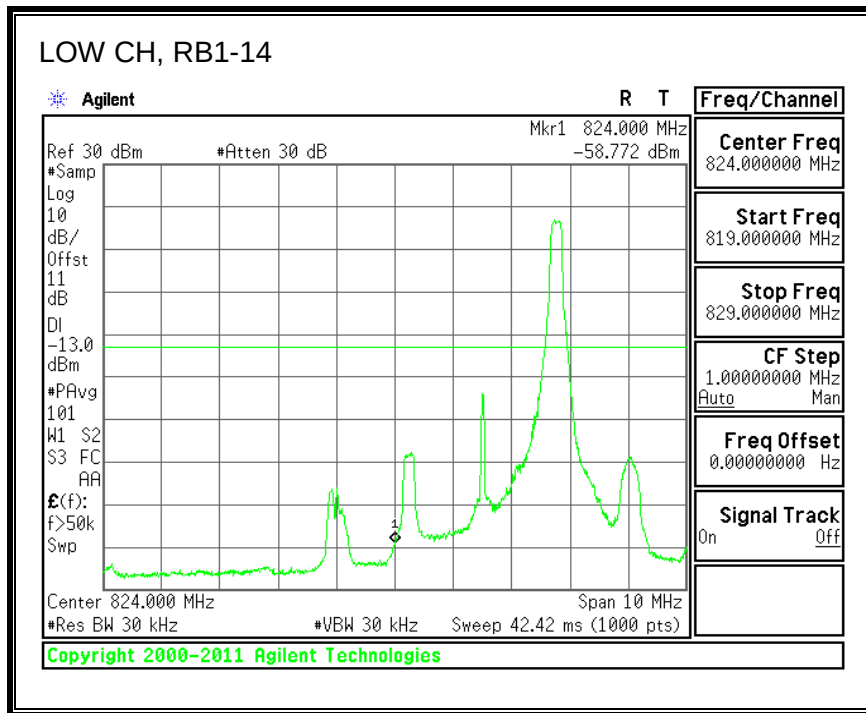


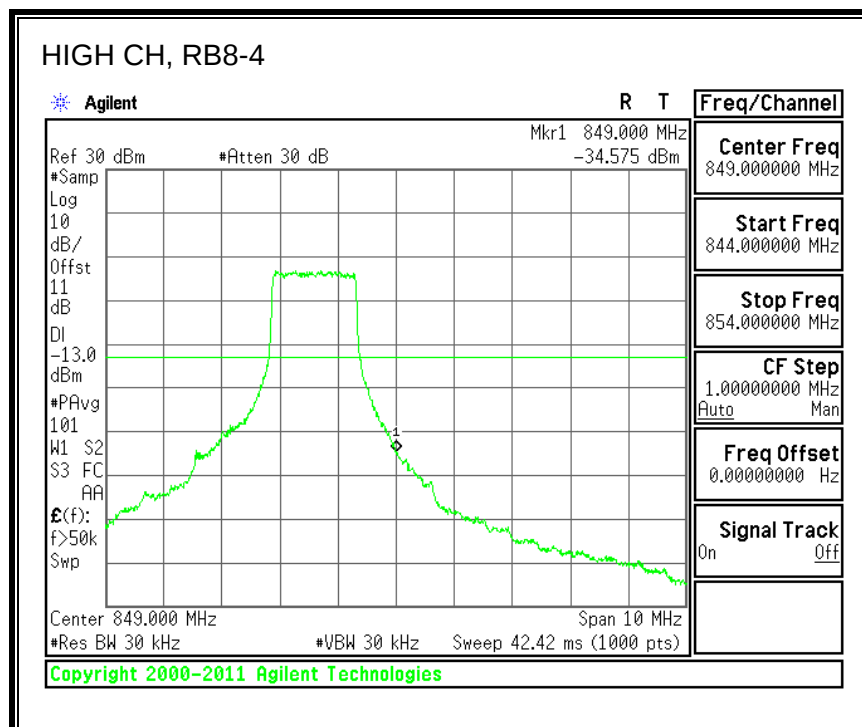
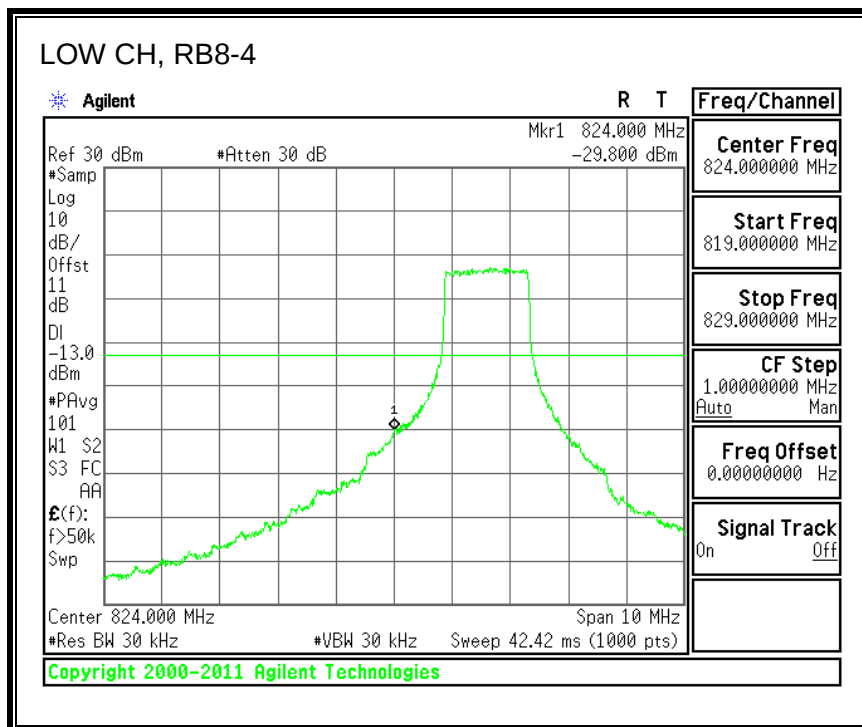


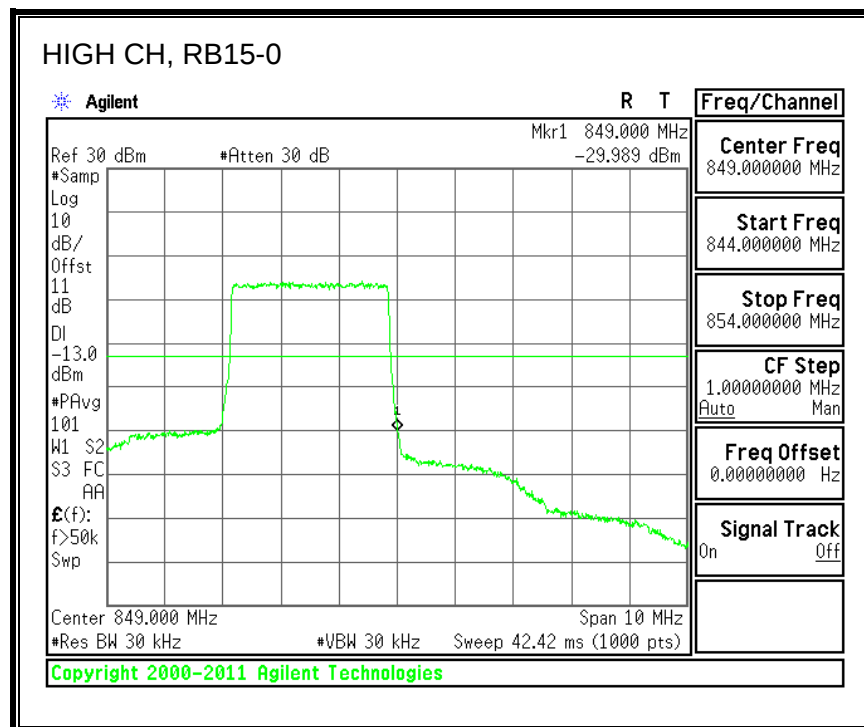
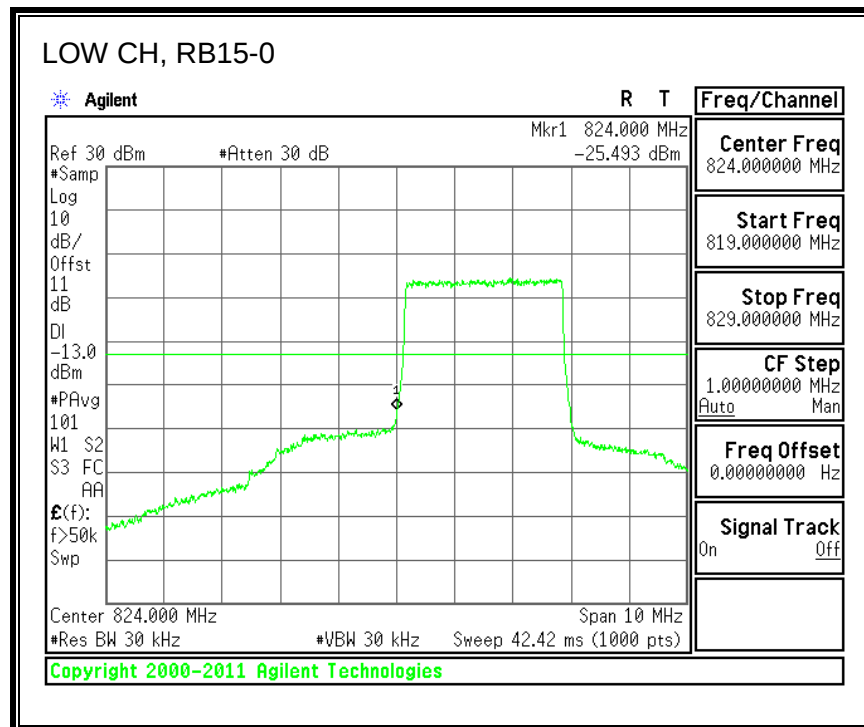


16QAM, (3.0 MHz BAND WIDTH)

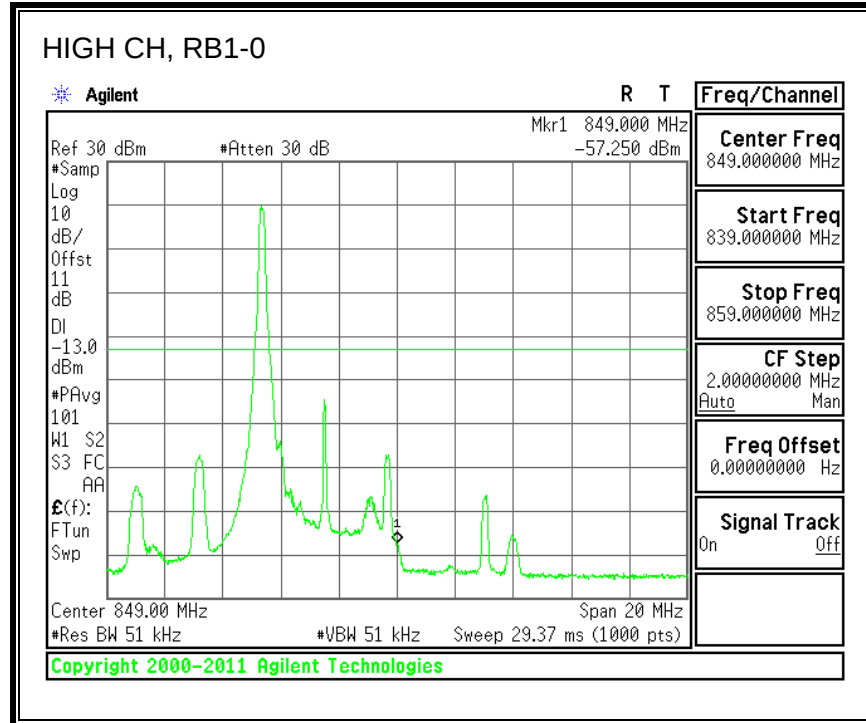
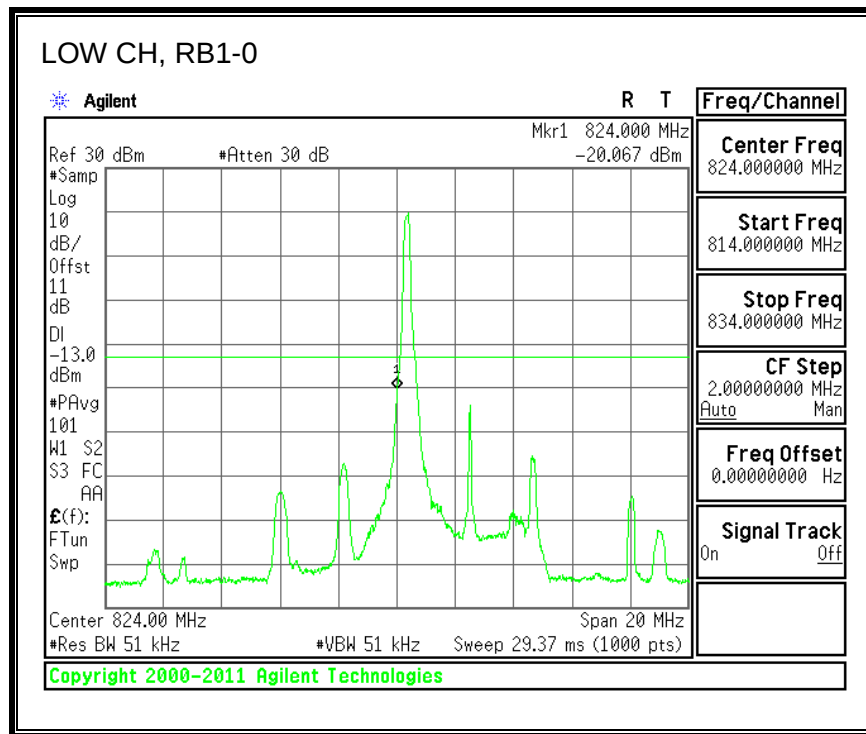


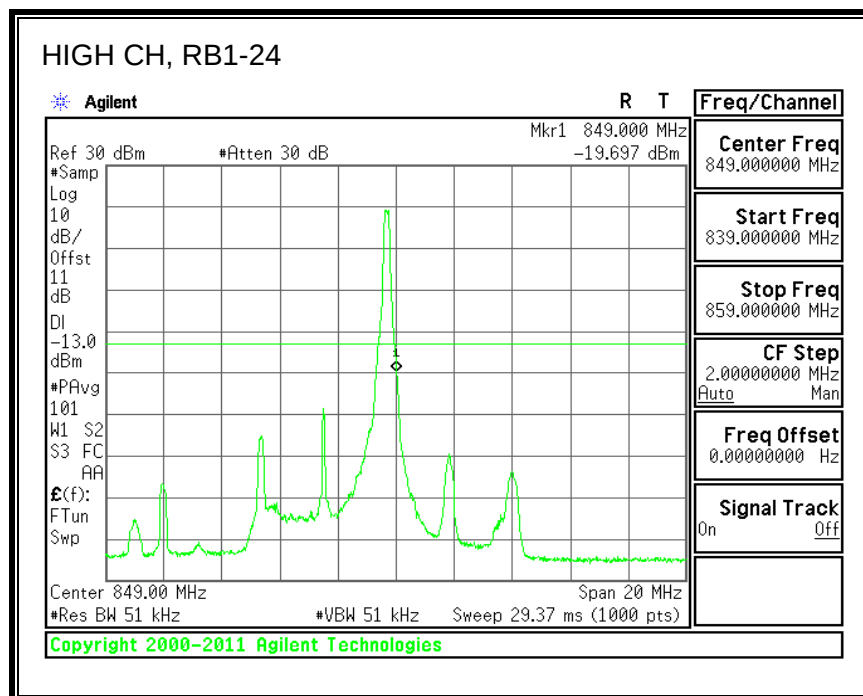
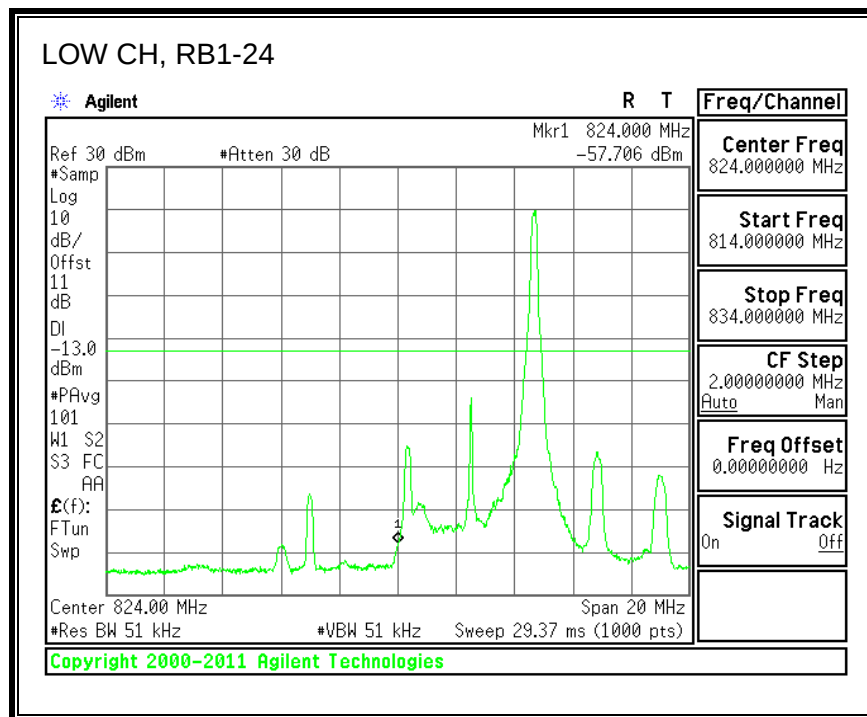


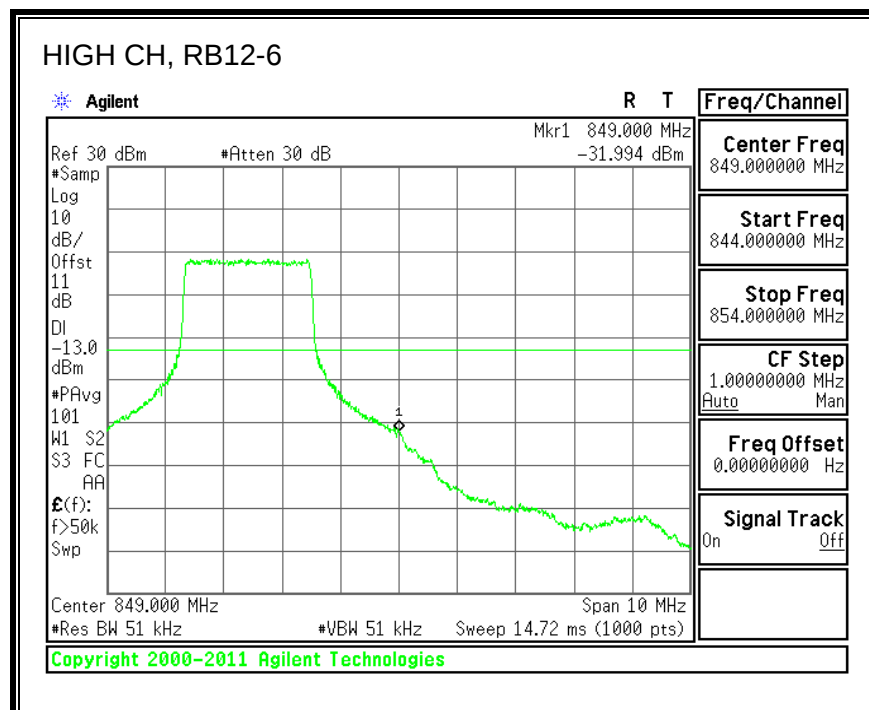
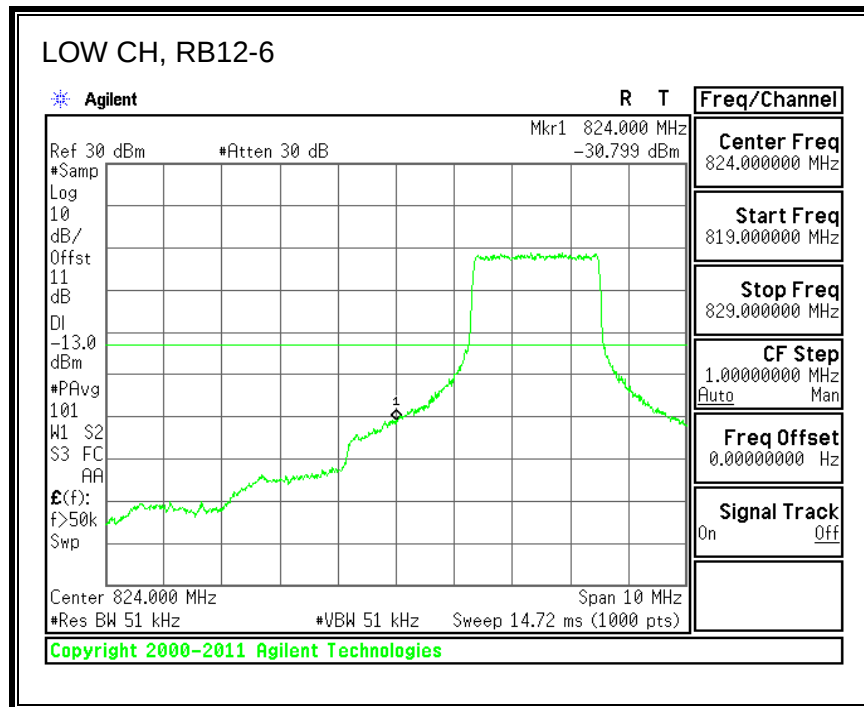


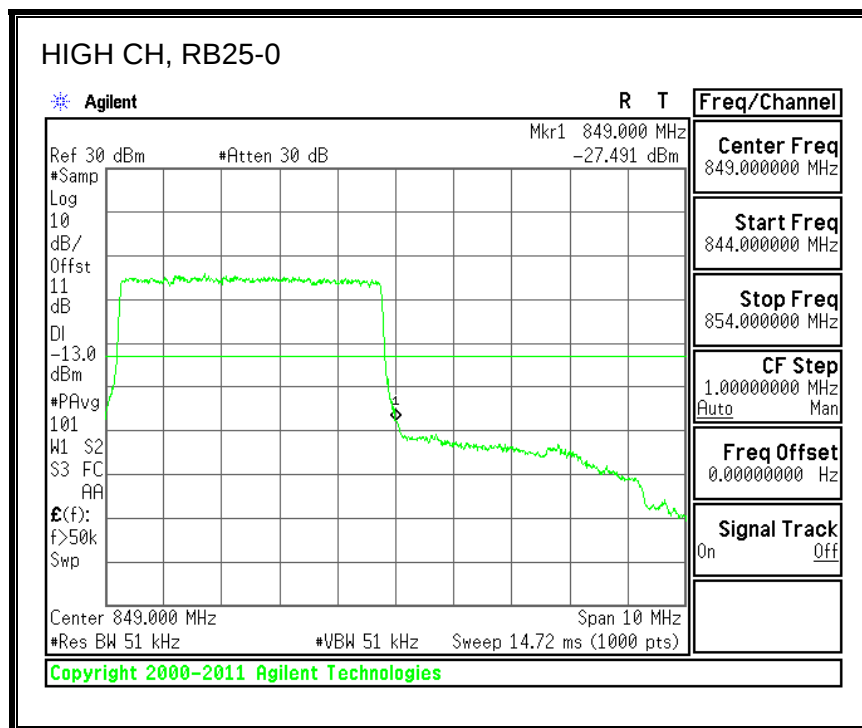
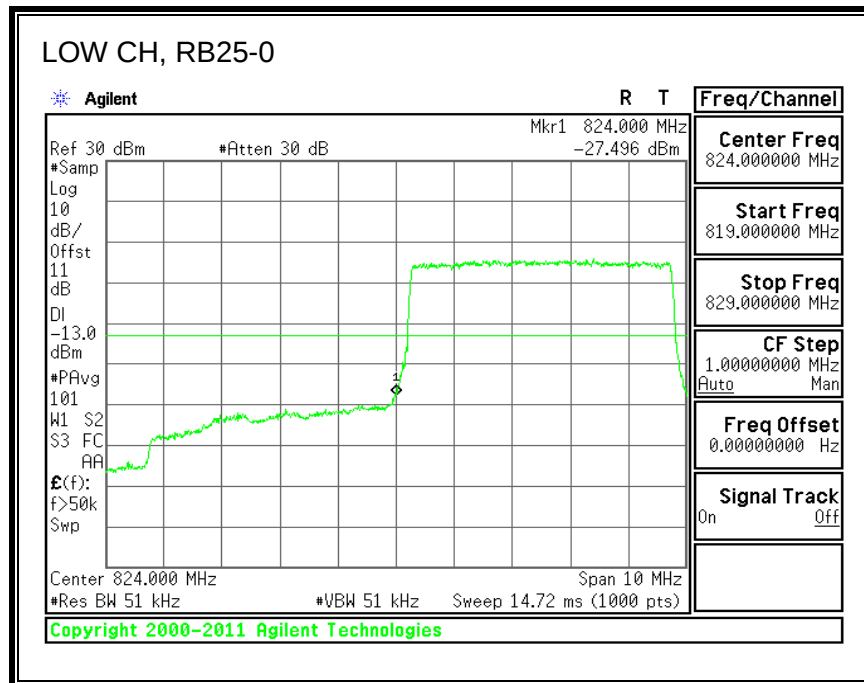


QPSK, (5.0 MHz BAND WIDTH)

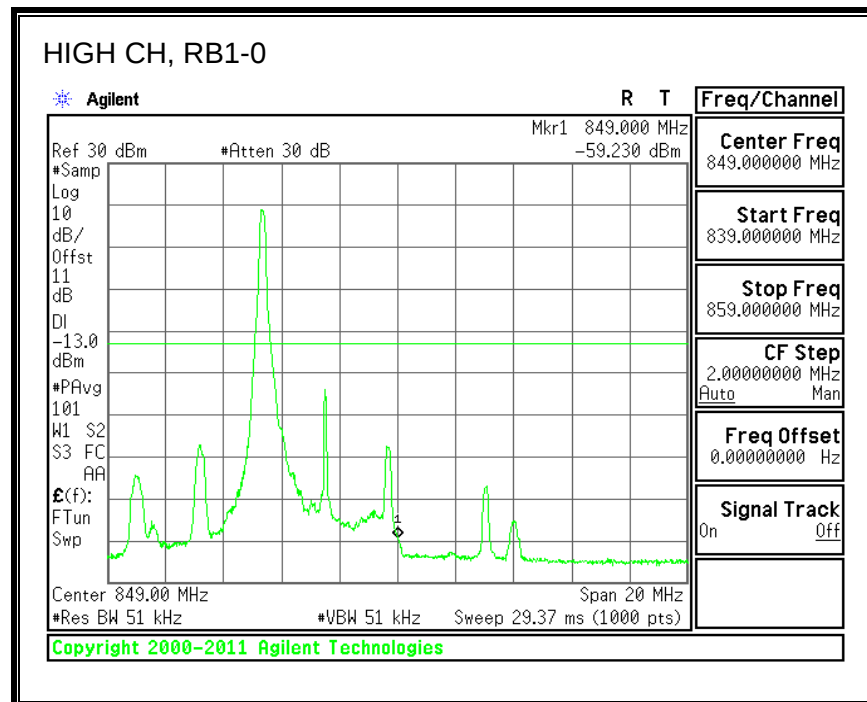
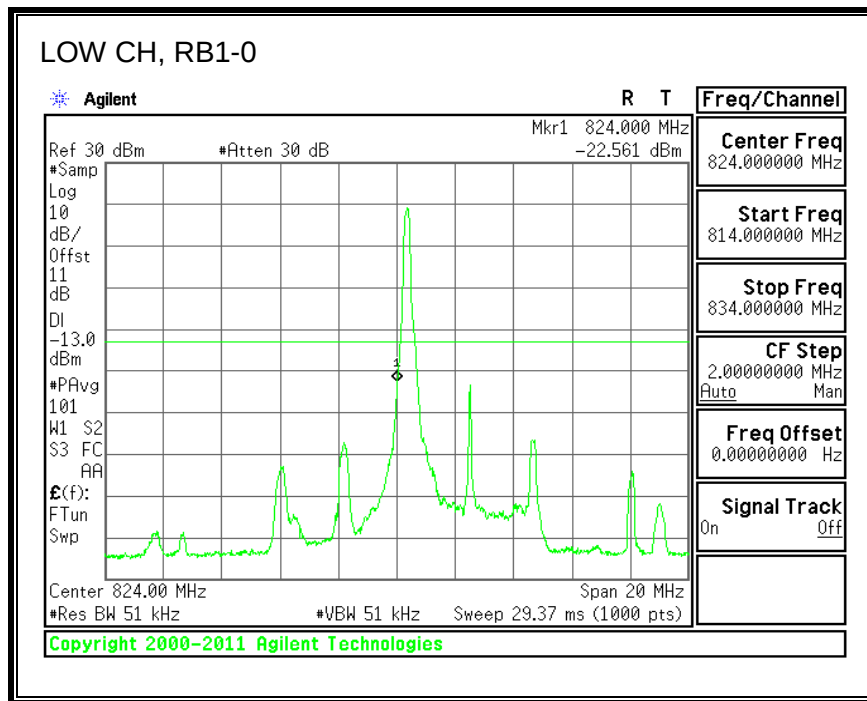


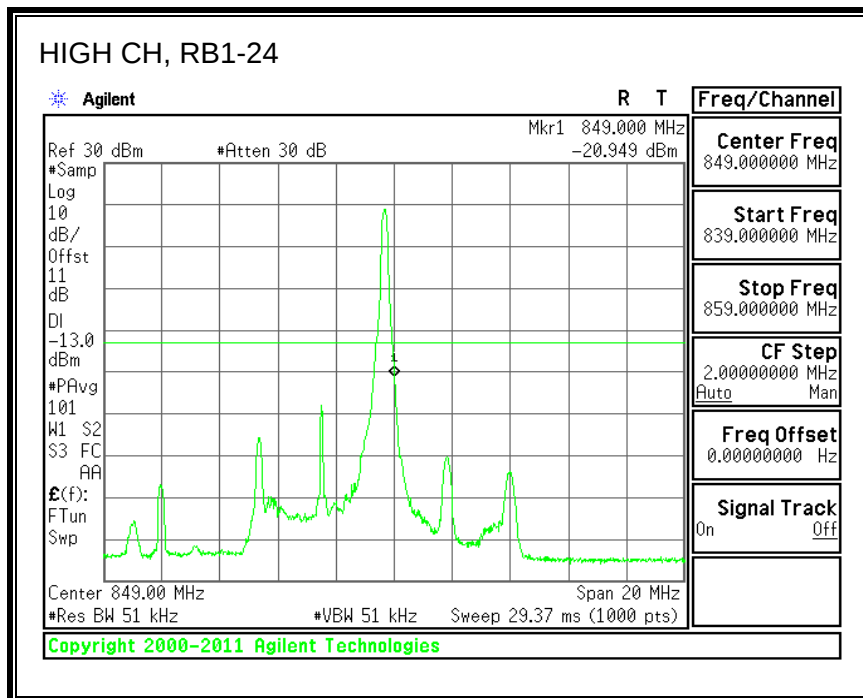
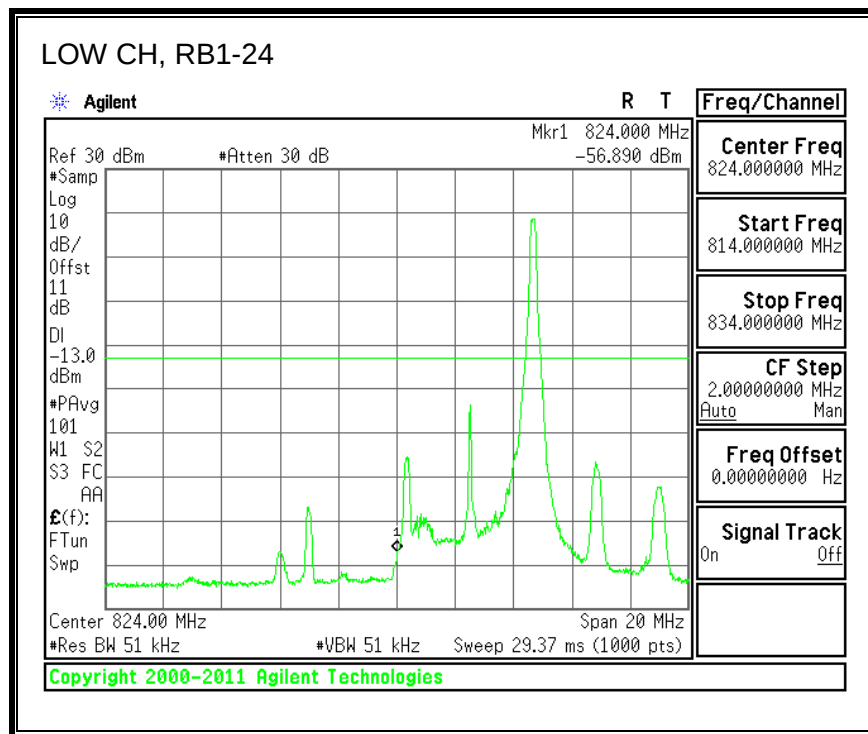


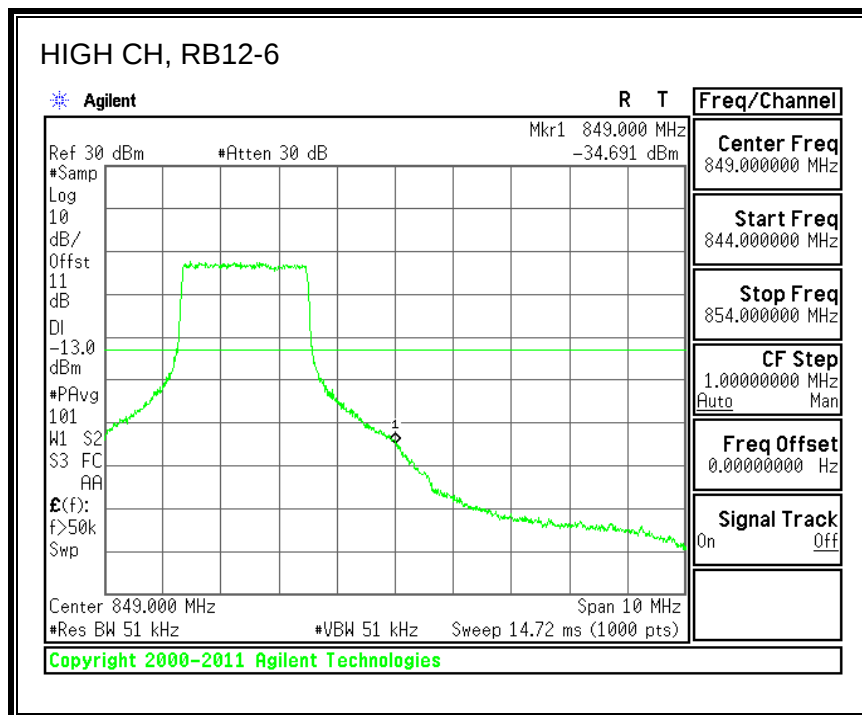
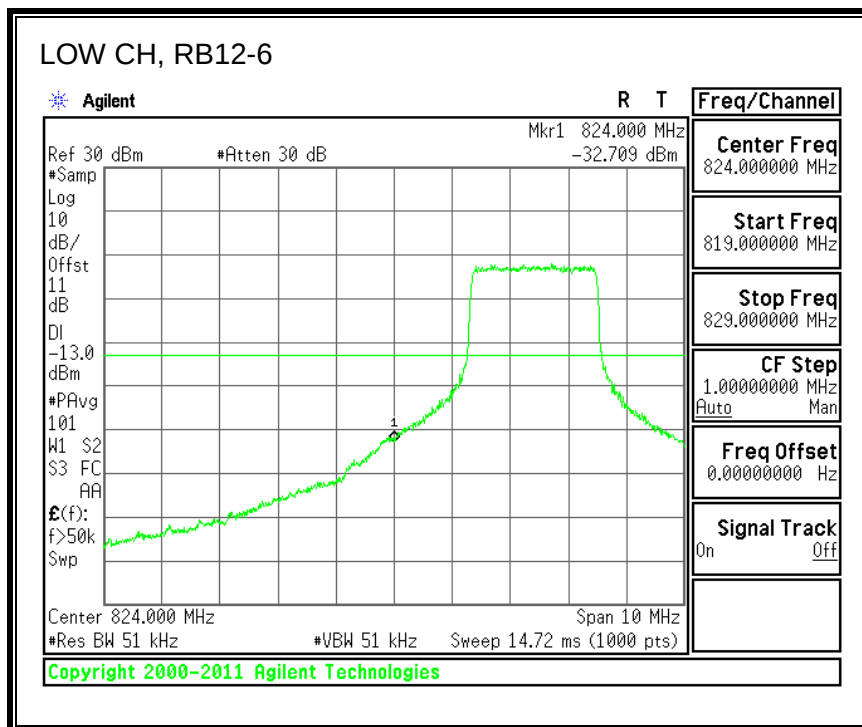




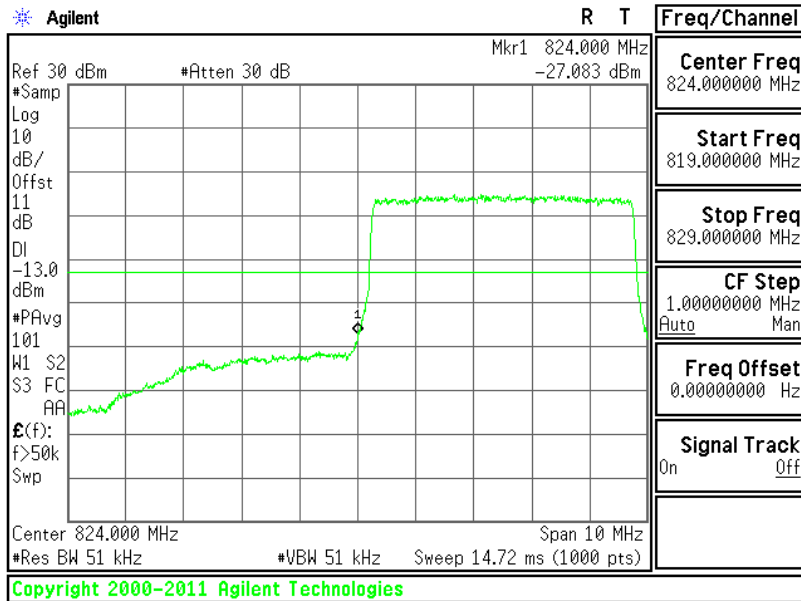
16QAM, (5.0 MHz BAND WIDTH)



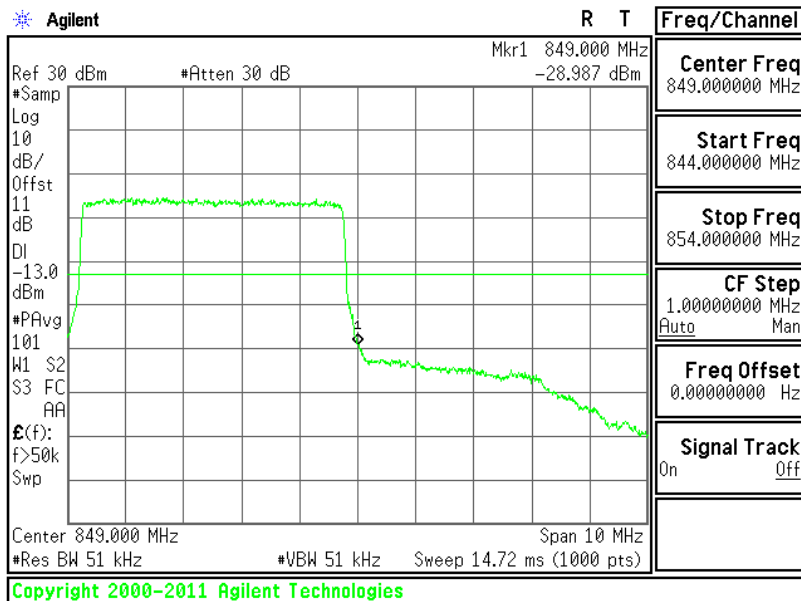




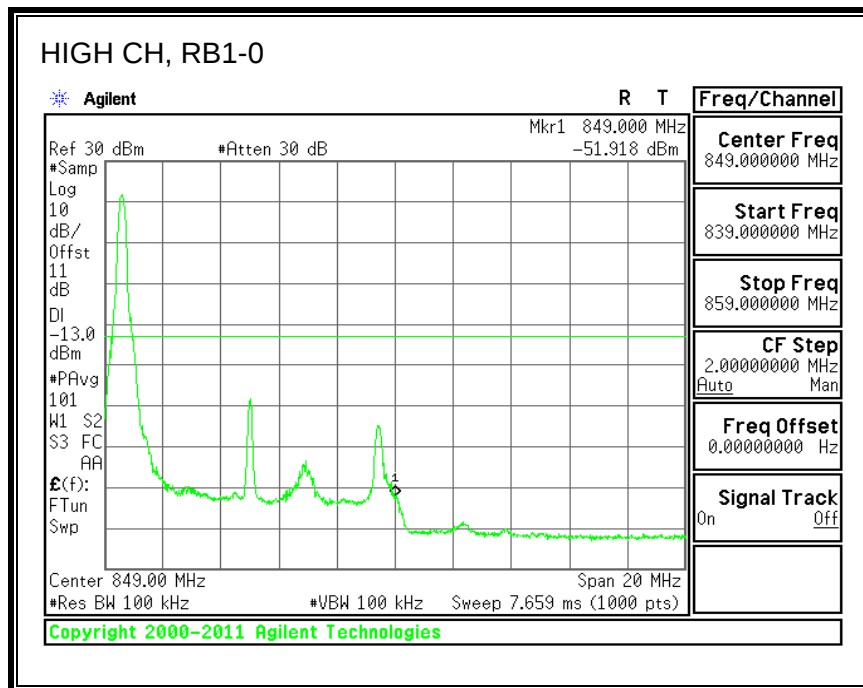
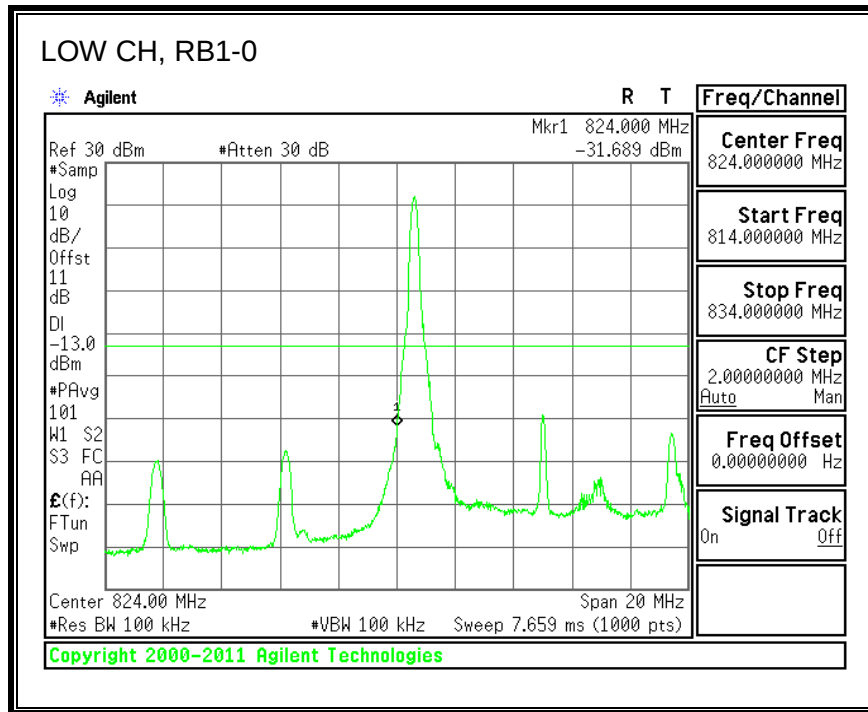
LOW CH, RB25-0

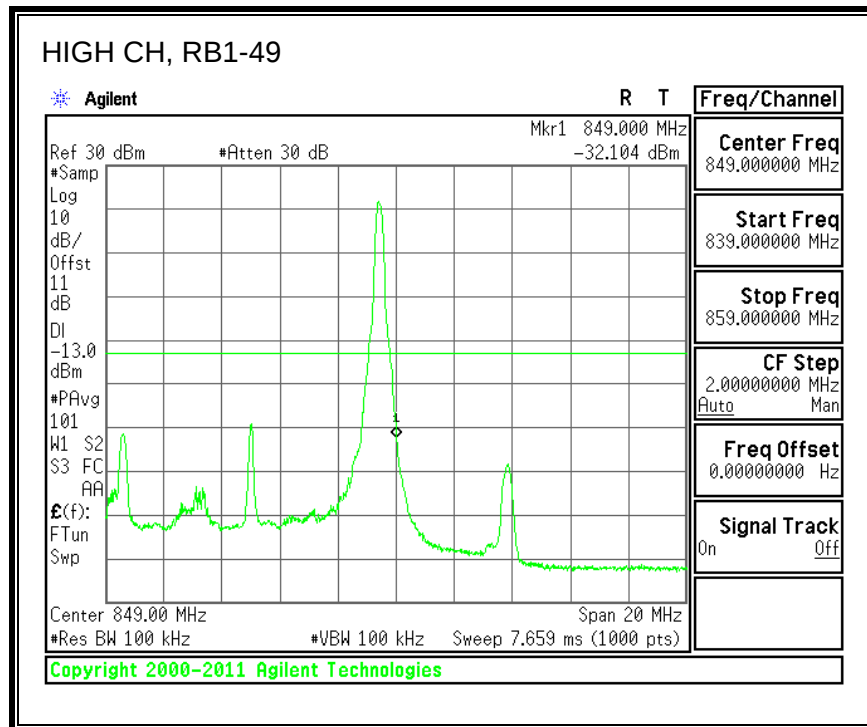
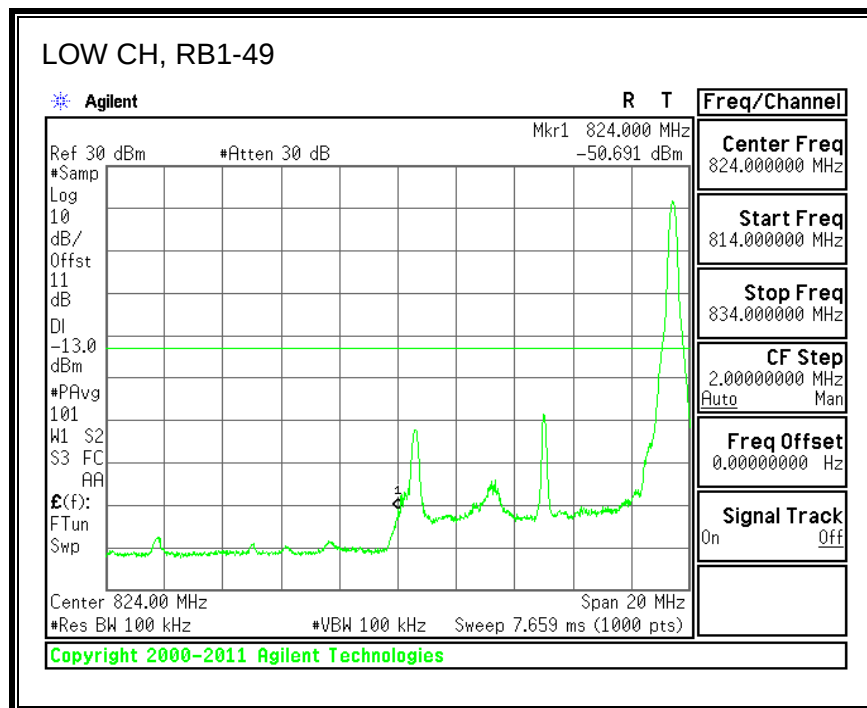


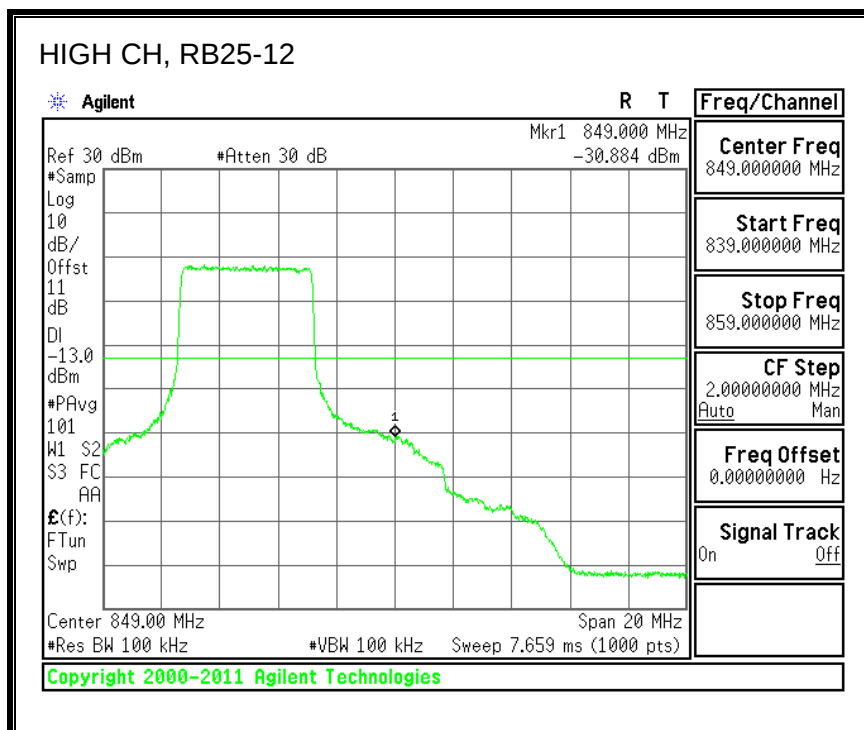
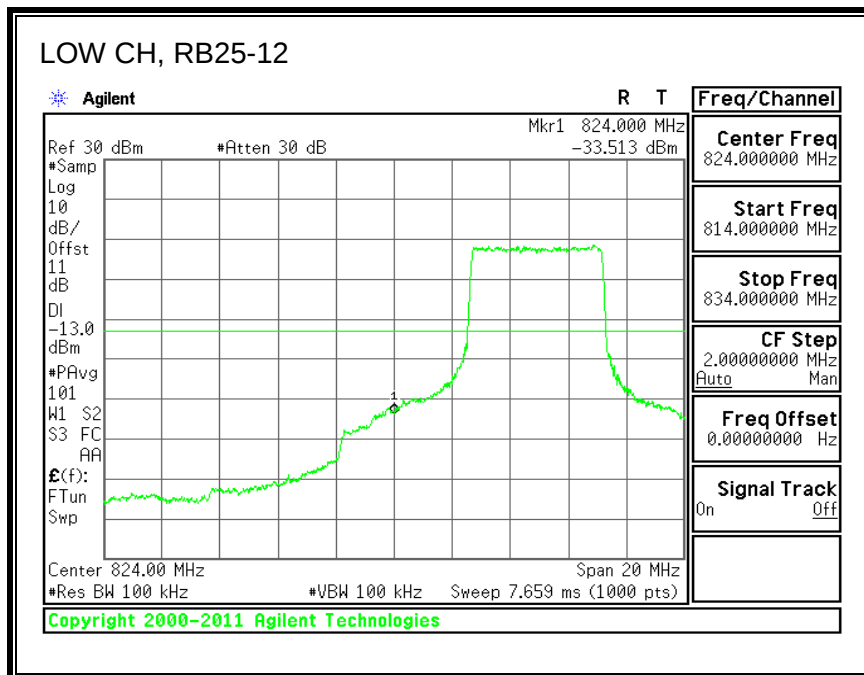
HIGH CH, RB25-0

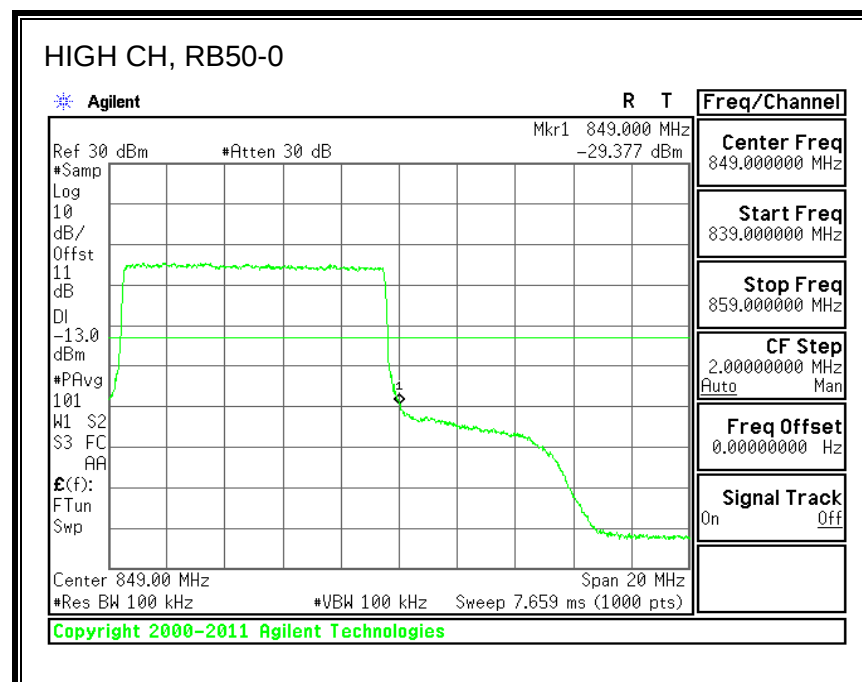
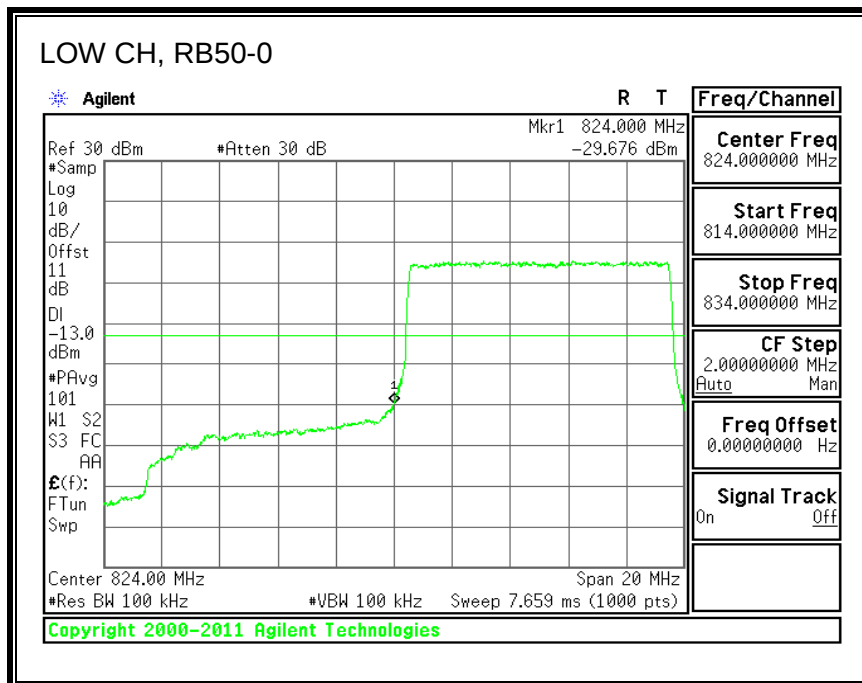


QPSK, (10.0 MHz BAND WIDTH)

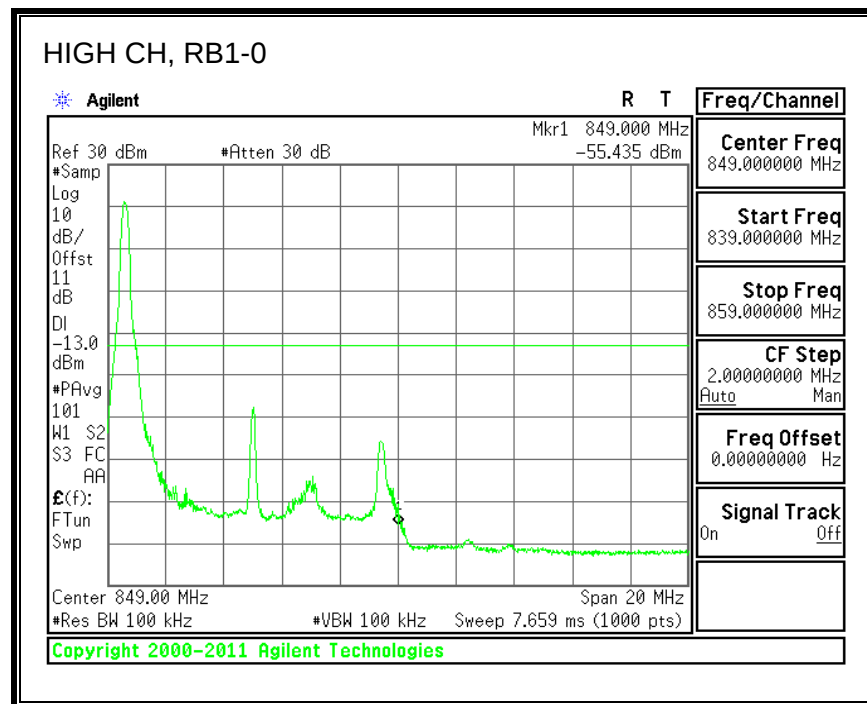
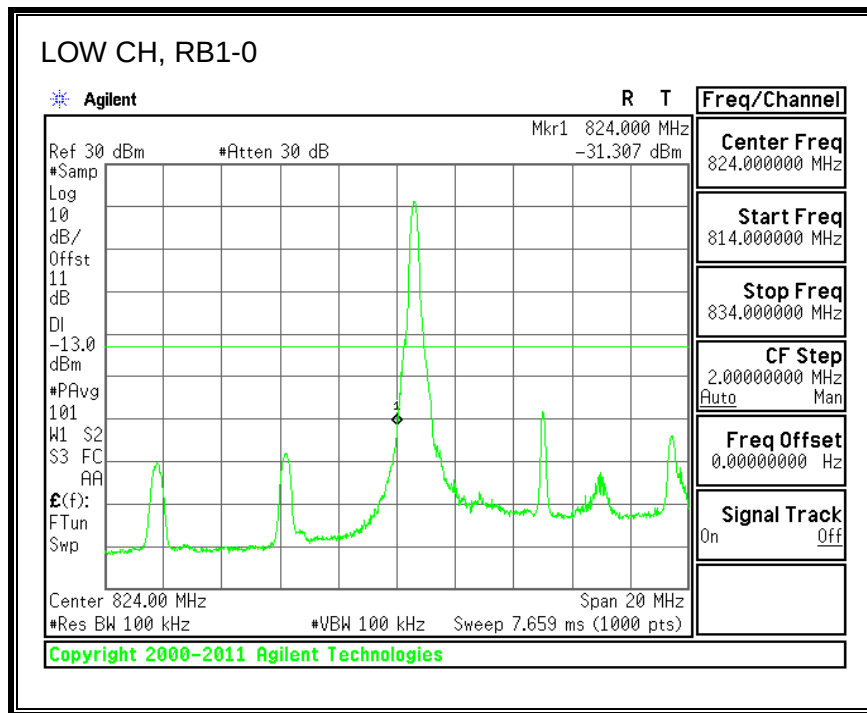


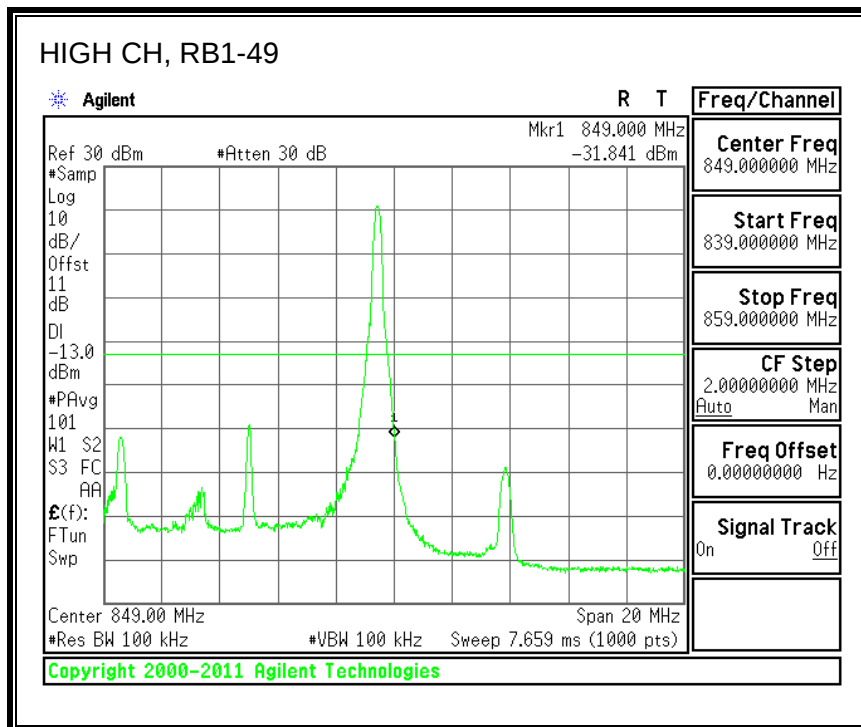
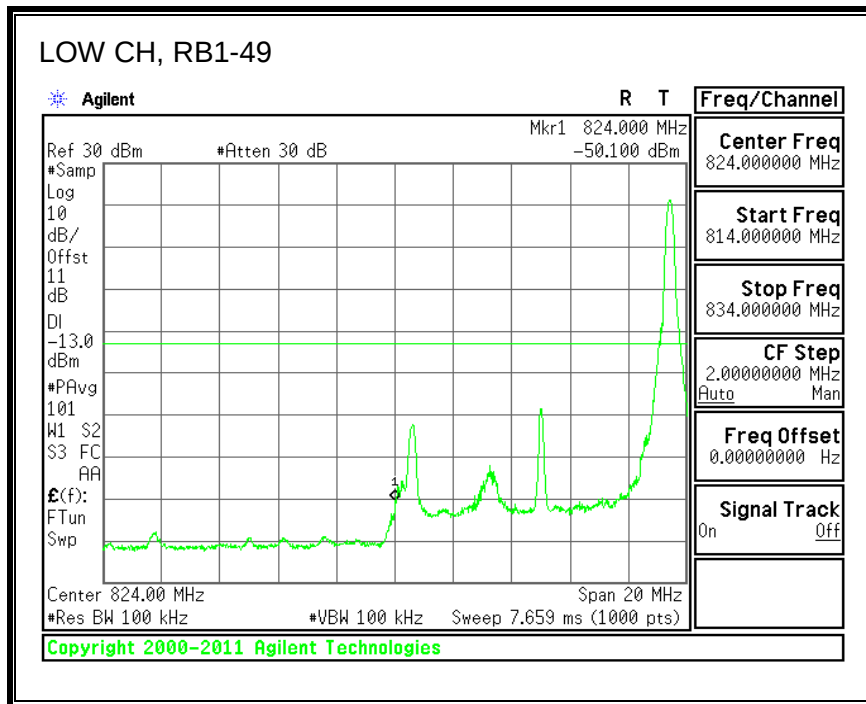


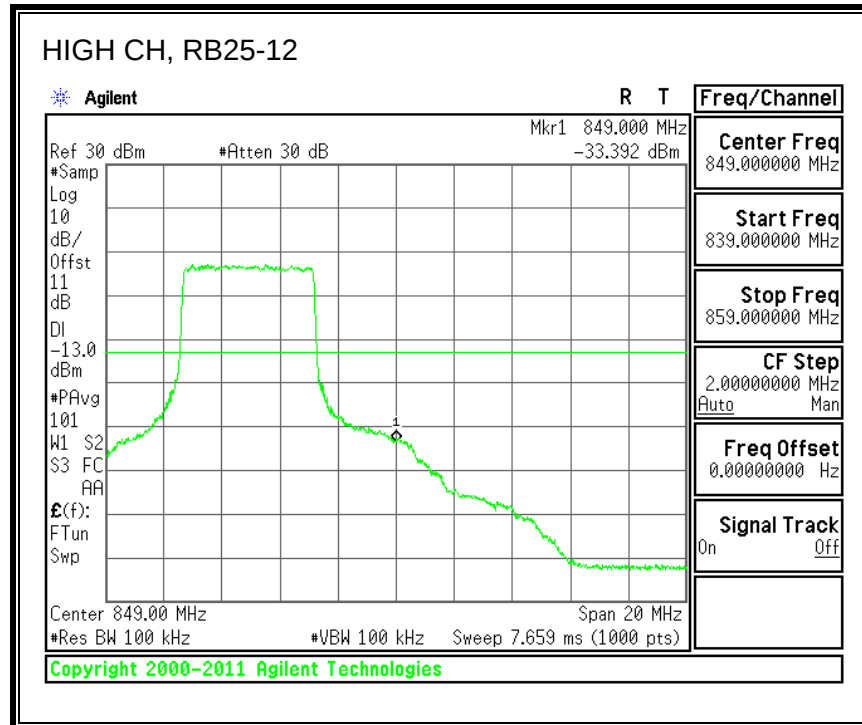
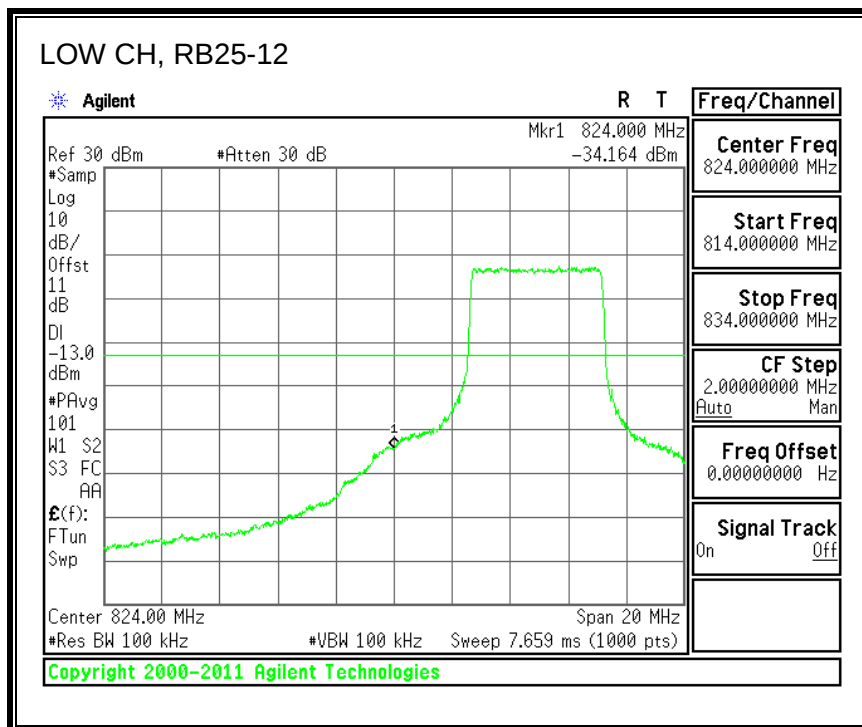


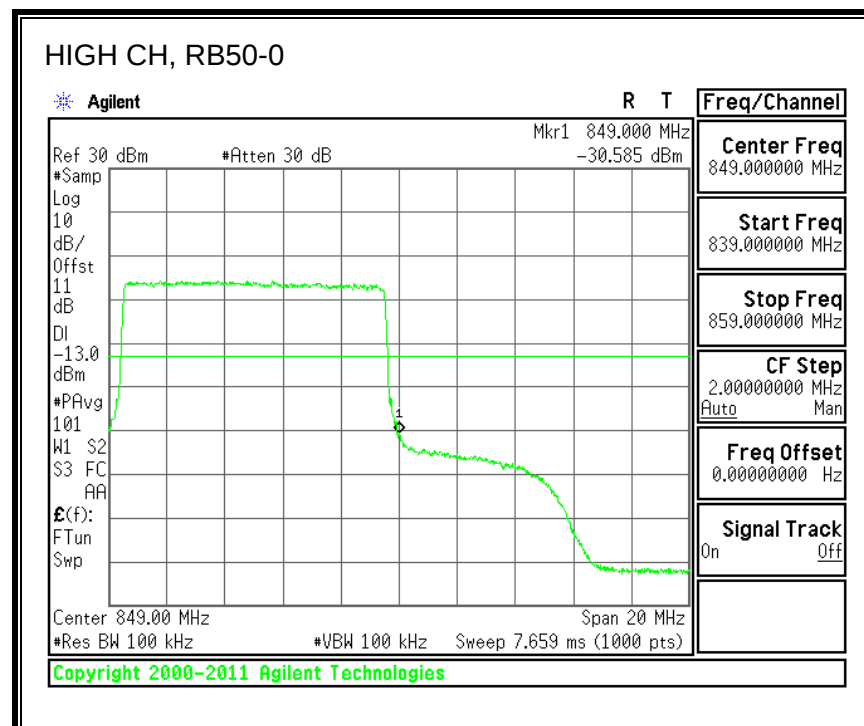
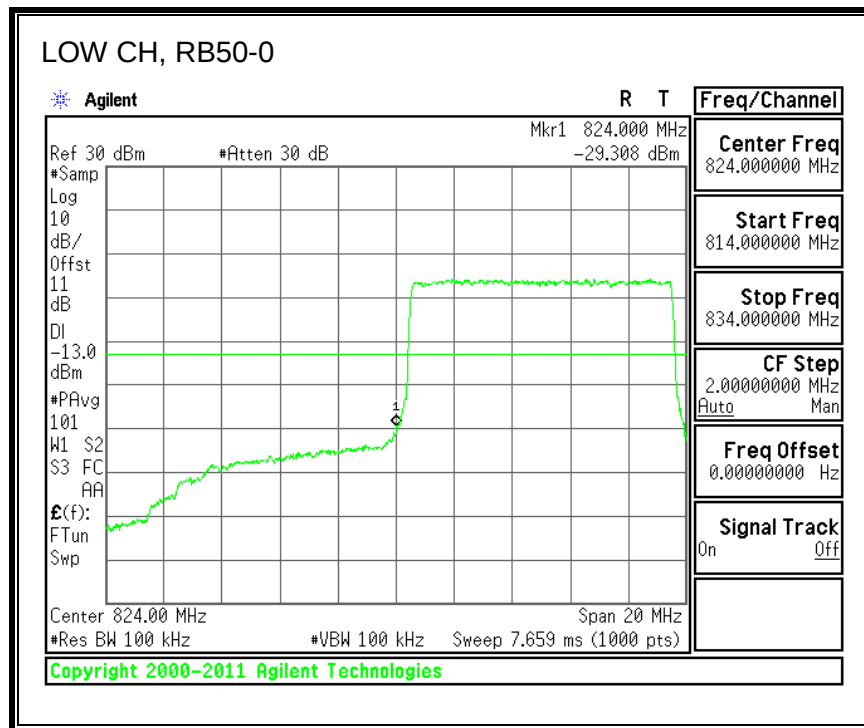


16QAM, (10.0 MHz BAND WIDTH)



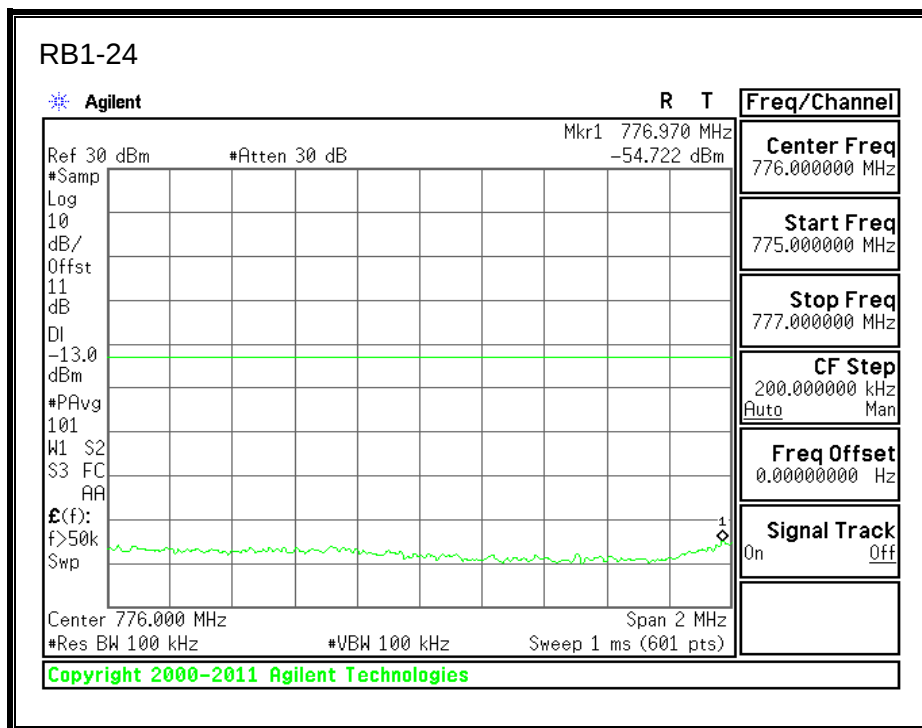
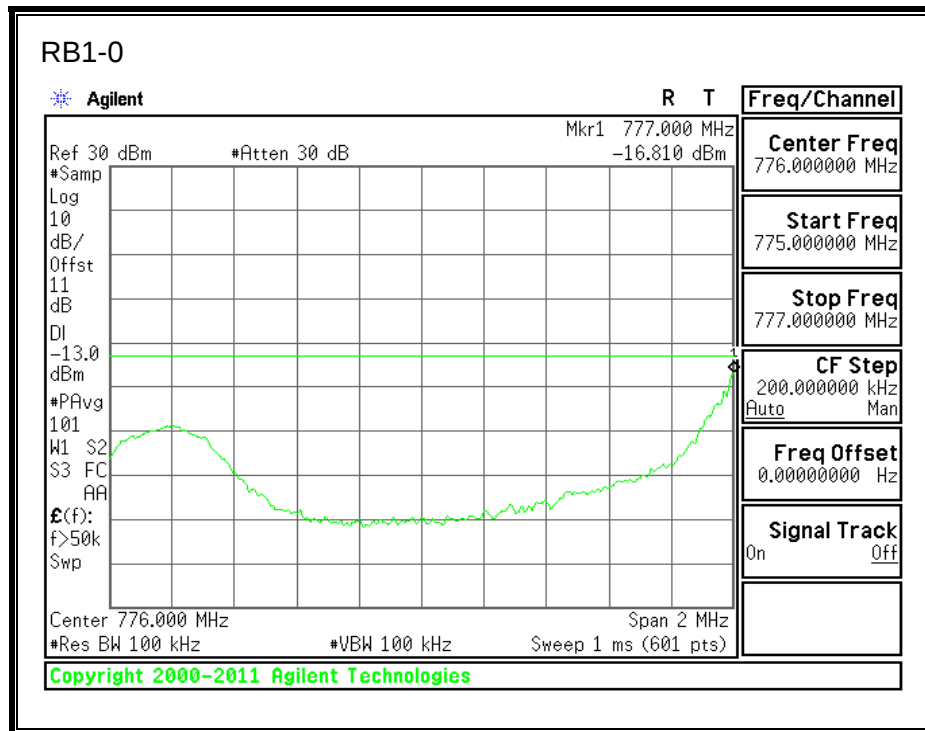


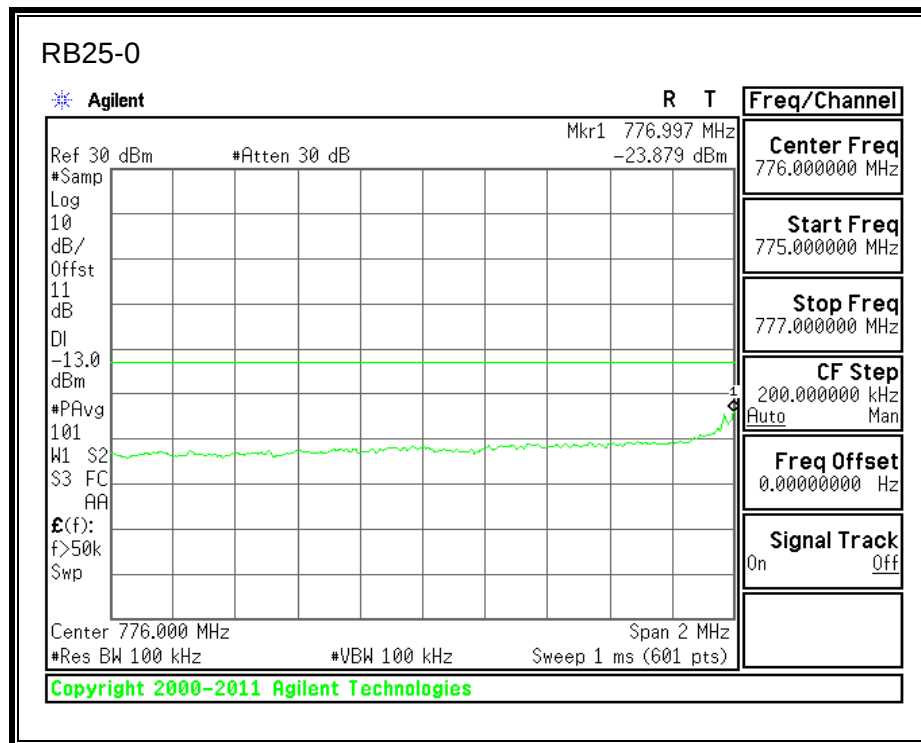
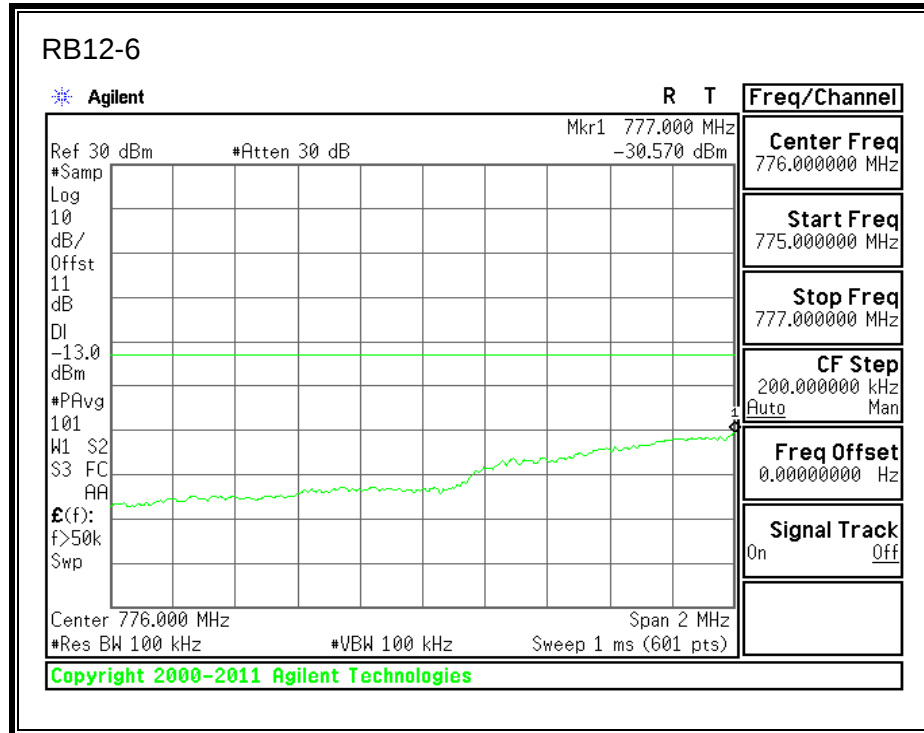




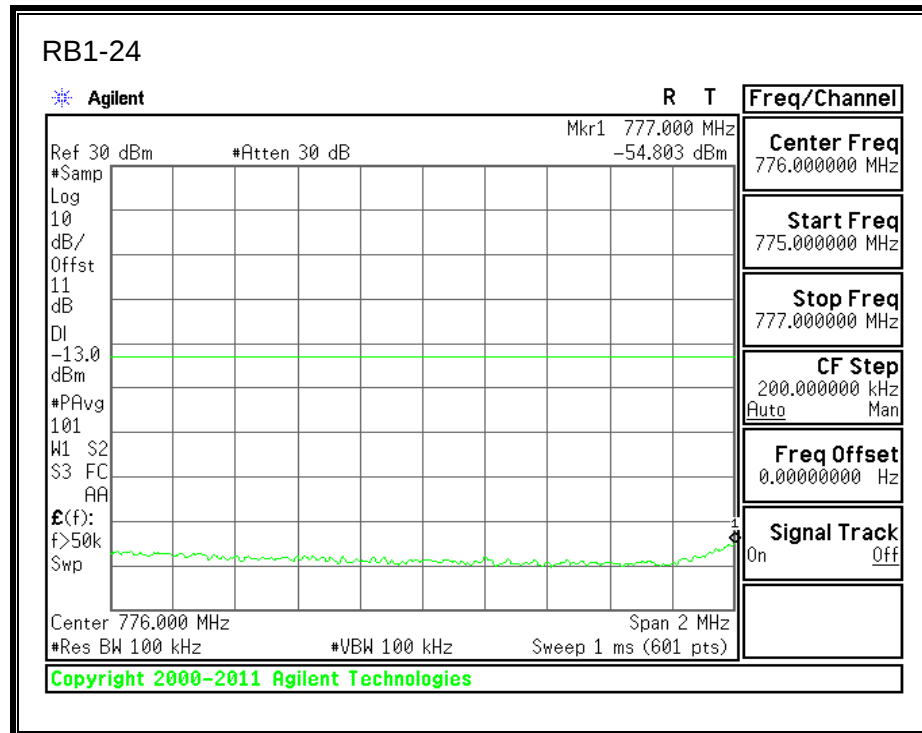
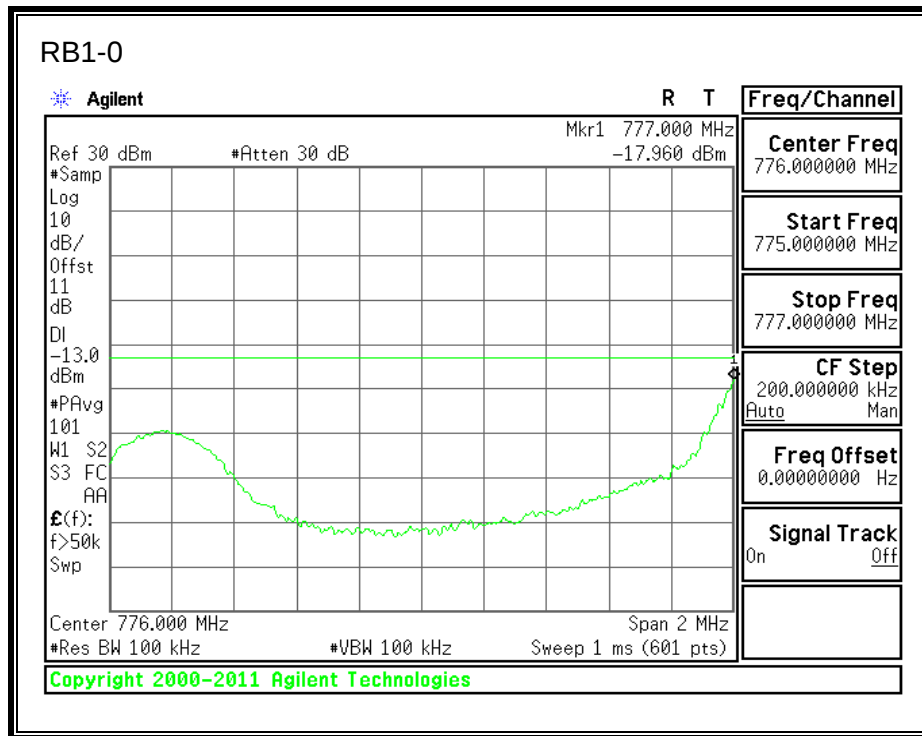
8.2.5. LTE BAND 13 BANDEGE

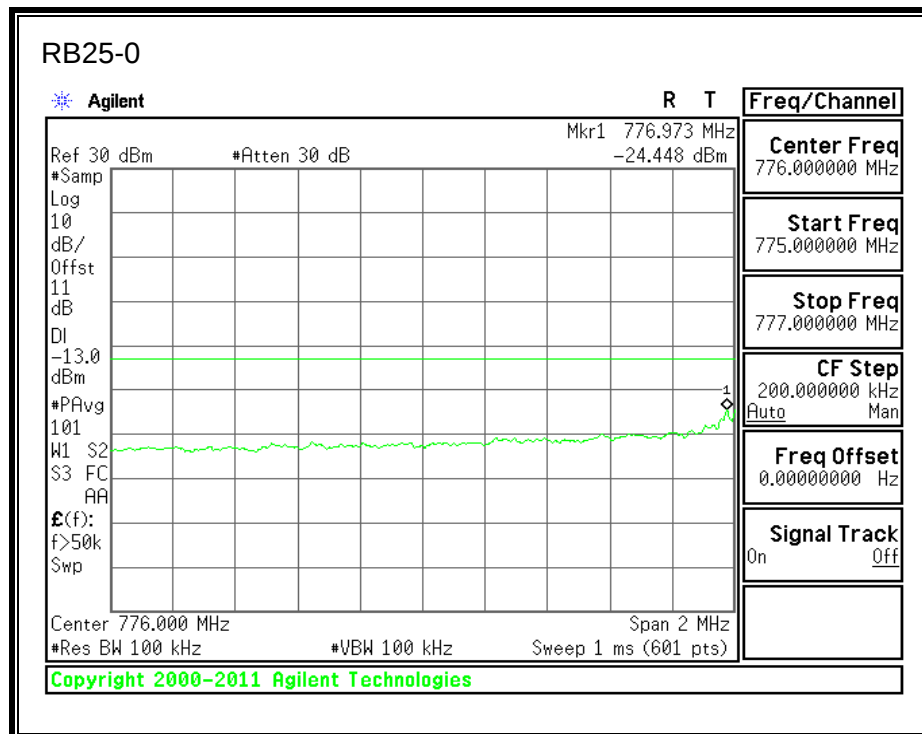
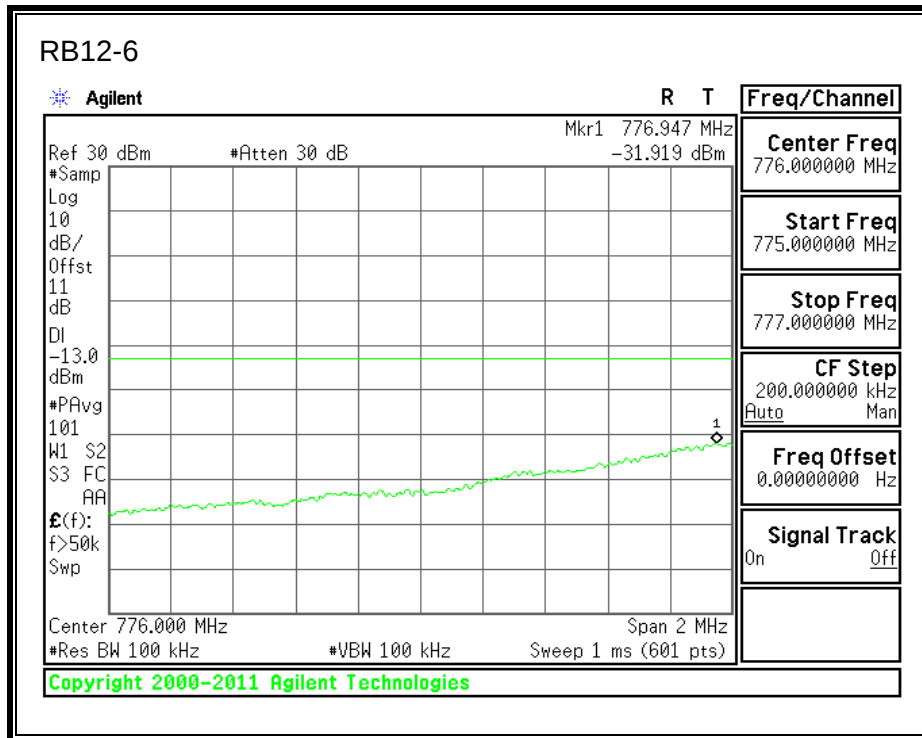
QPSK, 779.5 MHz, 775 – 777MHz, (5.0MHz Bandwidth)



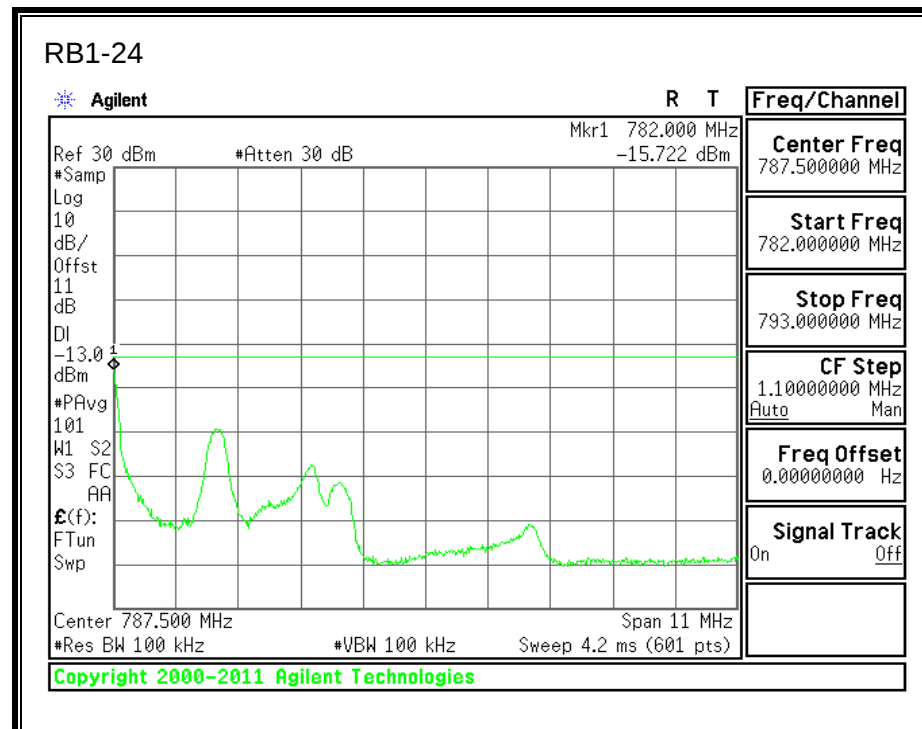
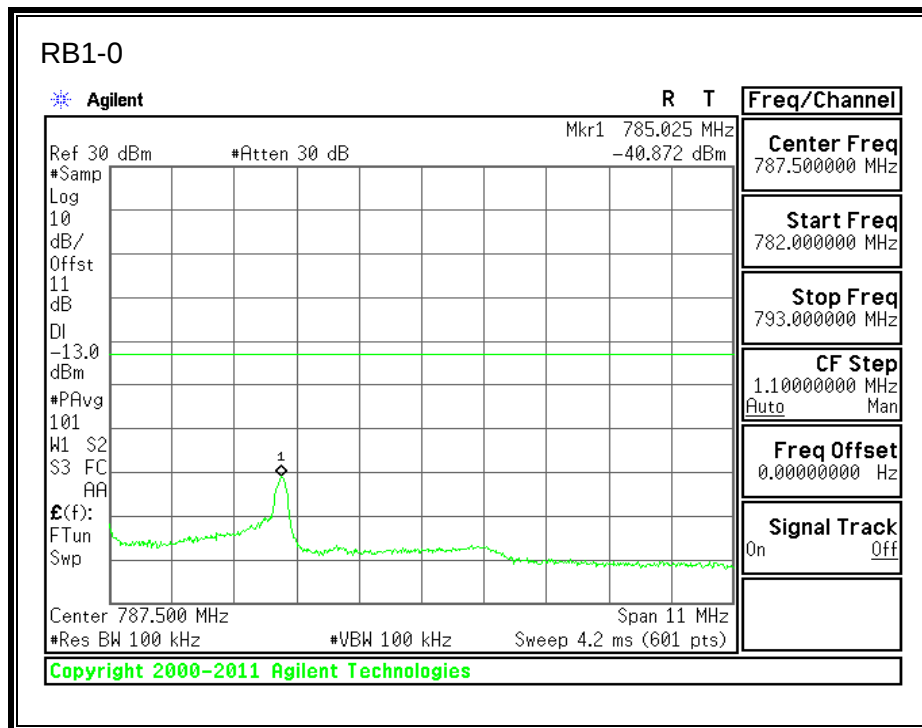


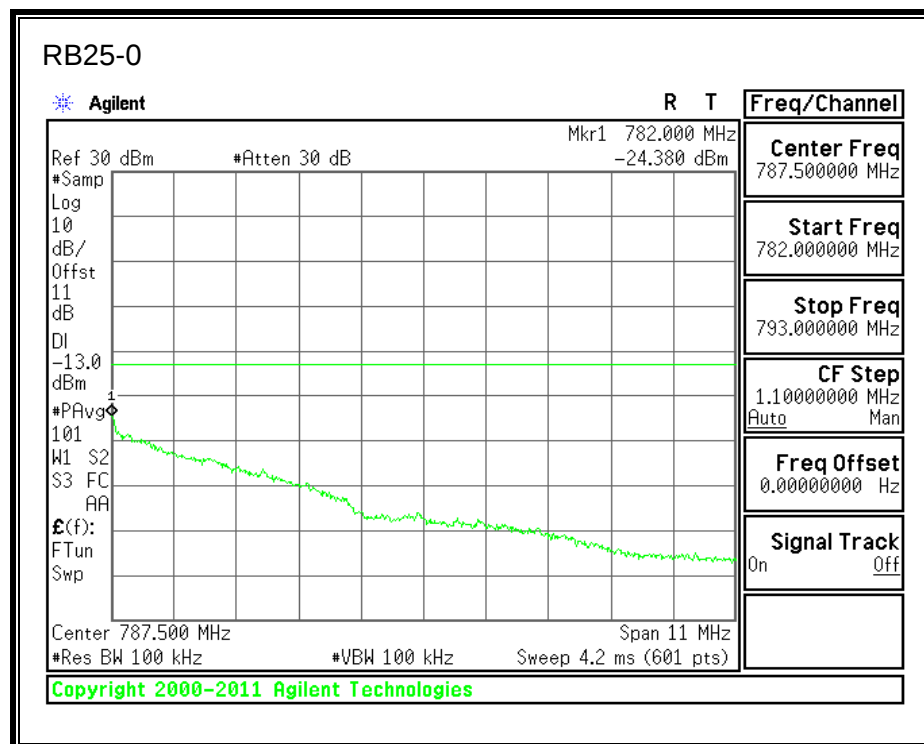
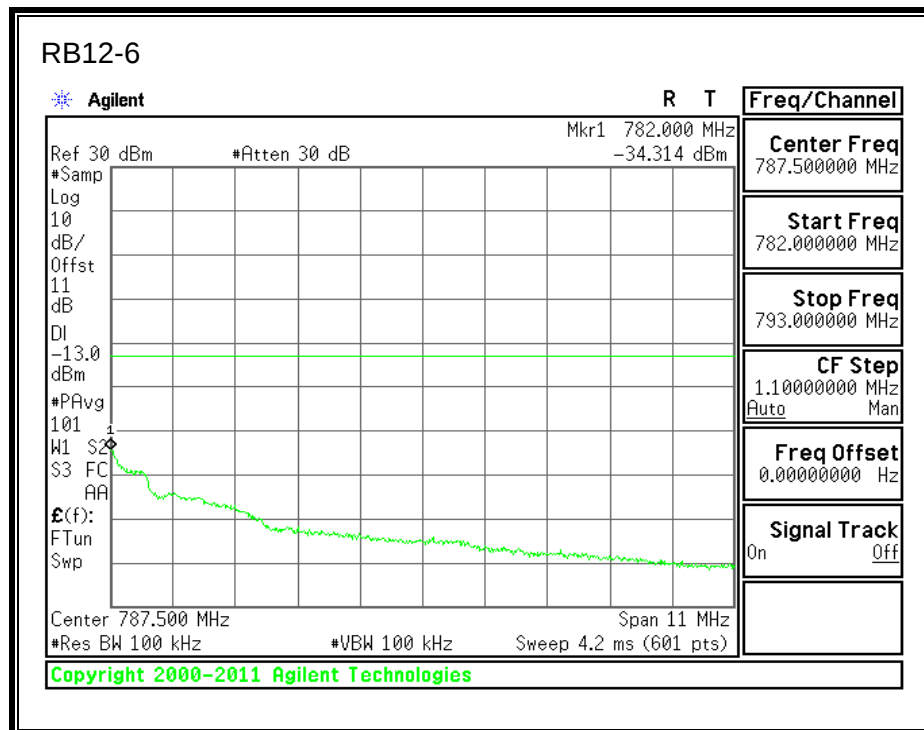
16QAM, 779.5MHz, 775 - 777MHz, (5MHz Bandwidth)



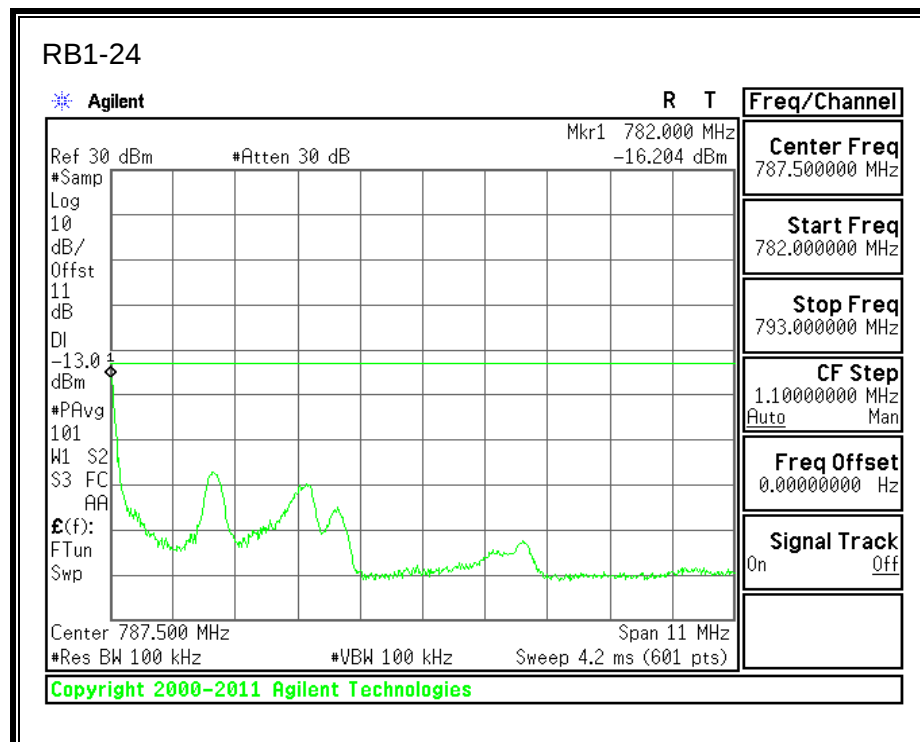
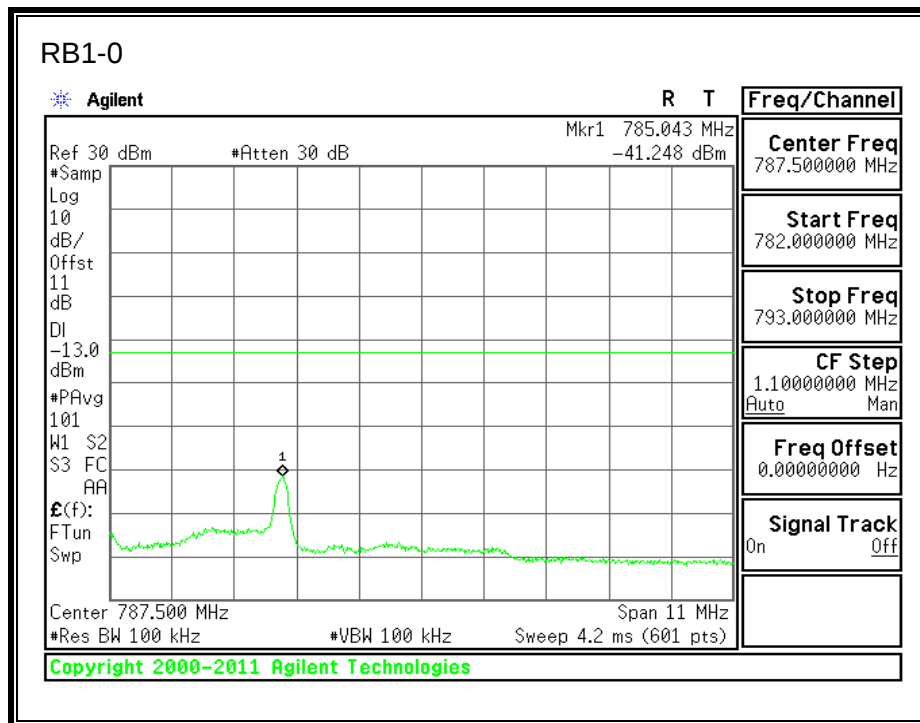


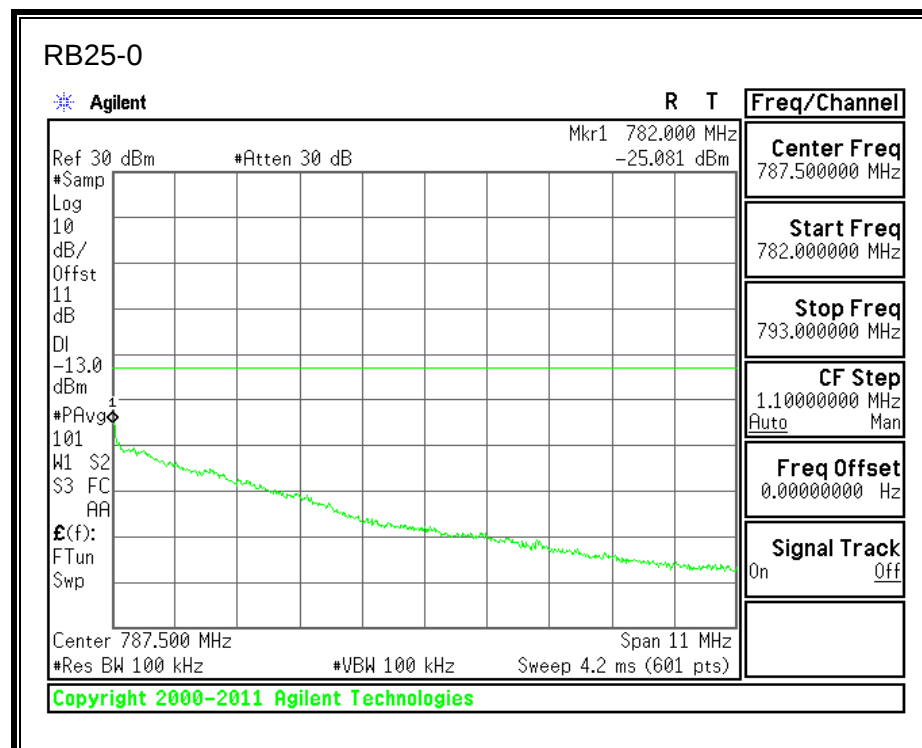
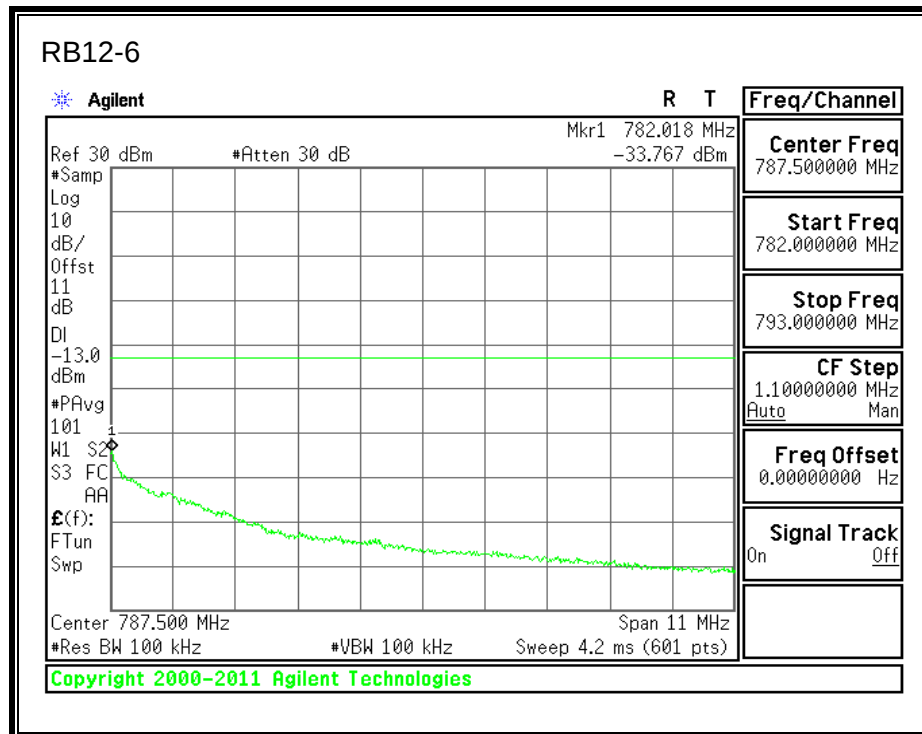
QPSK, 779.5MHz, 13, 782 - 793MHz, (5MHz Bandwidth)



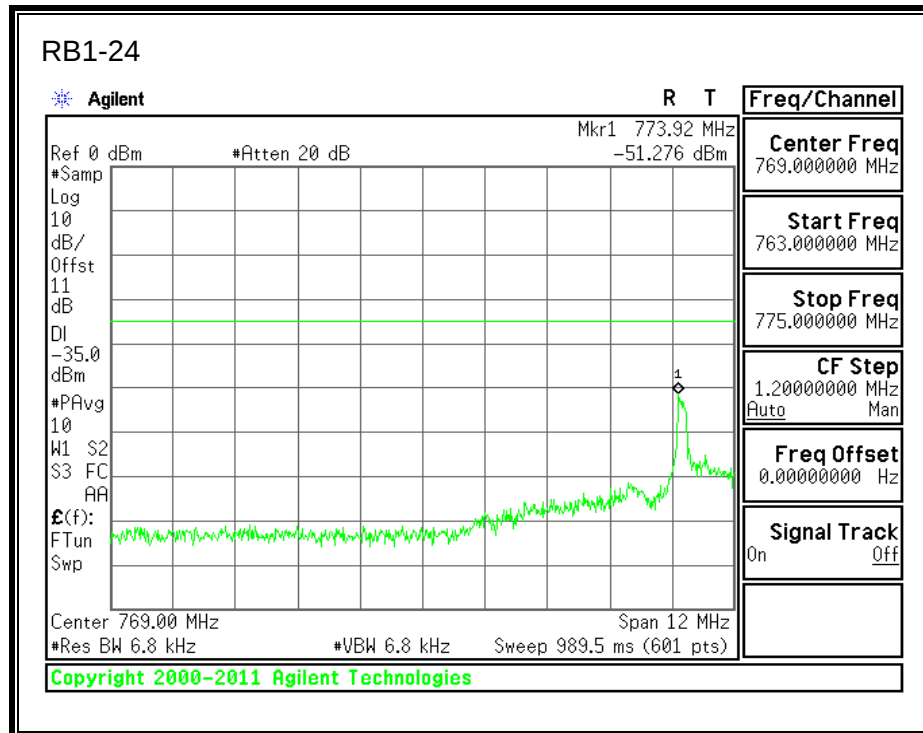
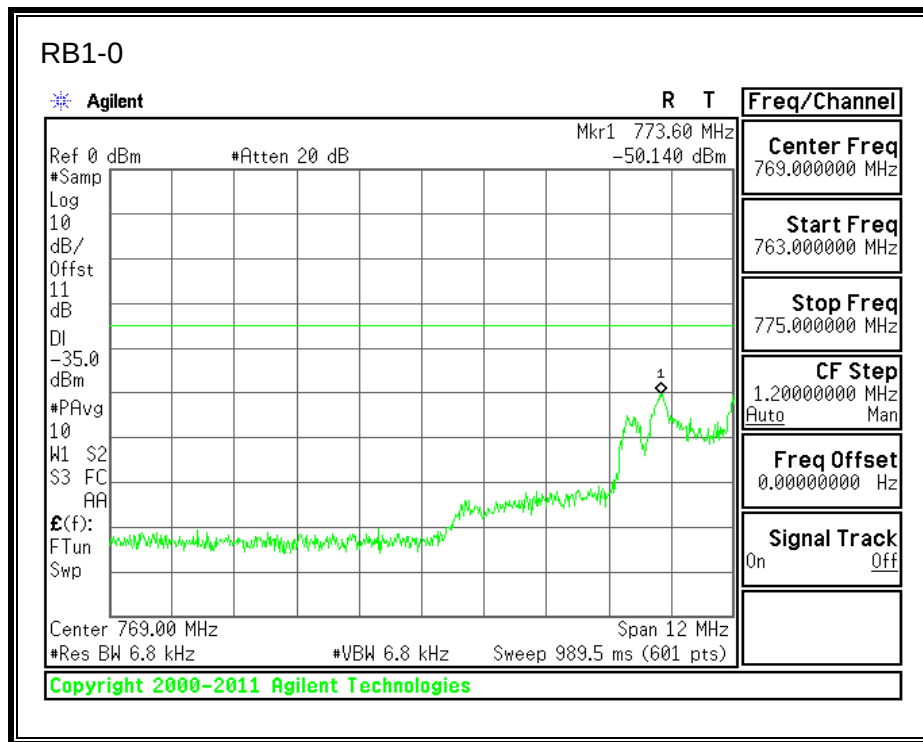


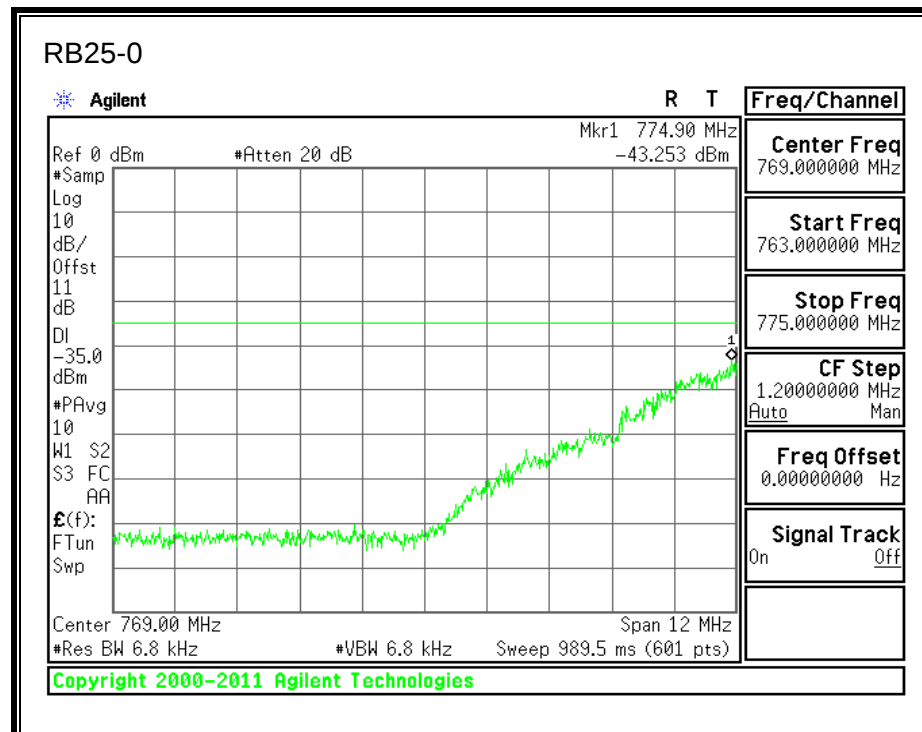
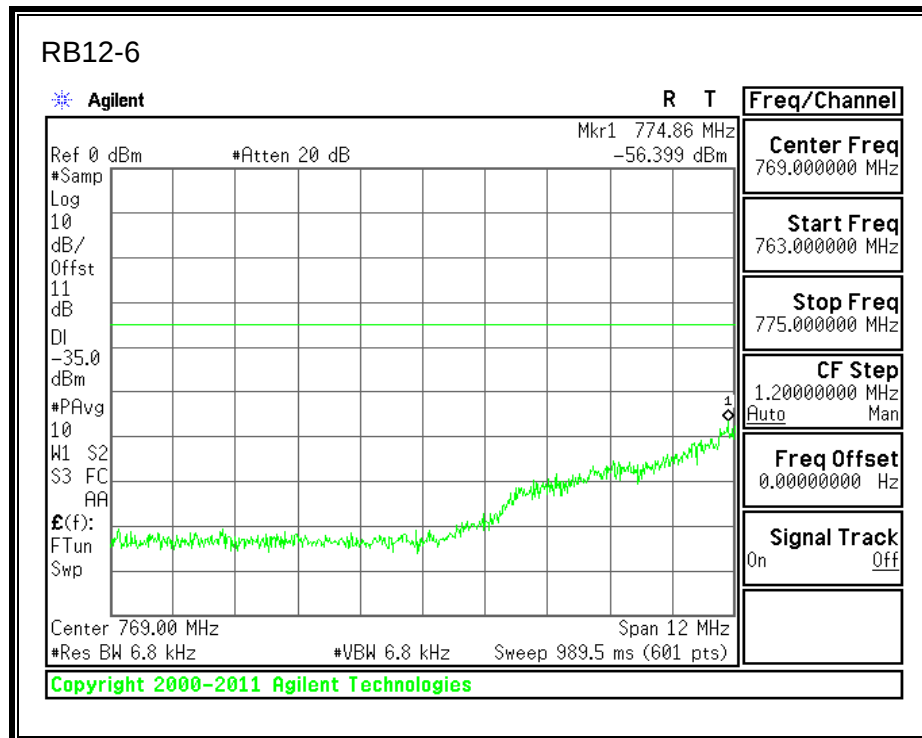
16QAM, 779.5MHz, 782 - 793MHz, (5MHz Bandwidth)



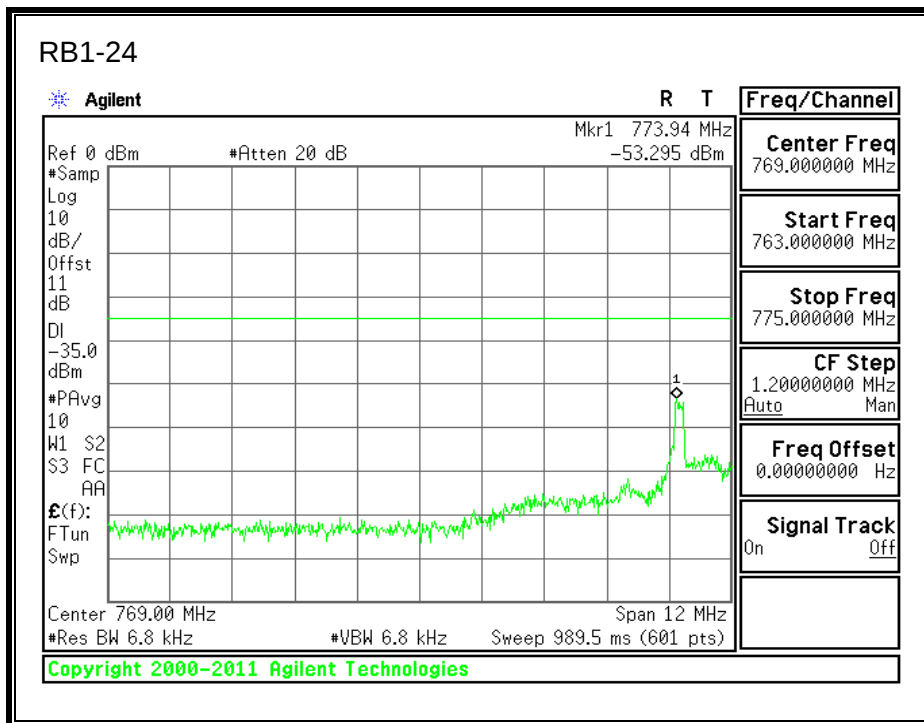
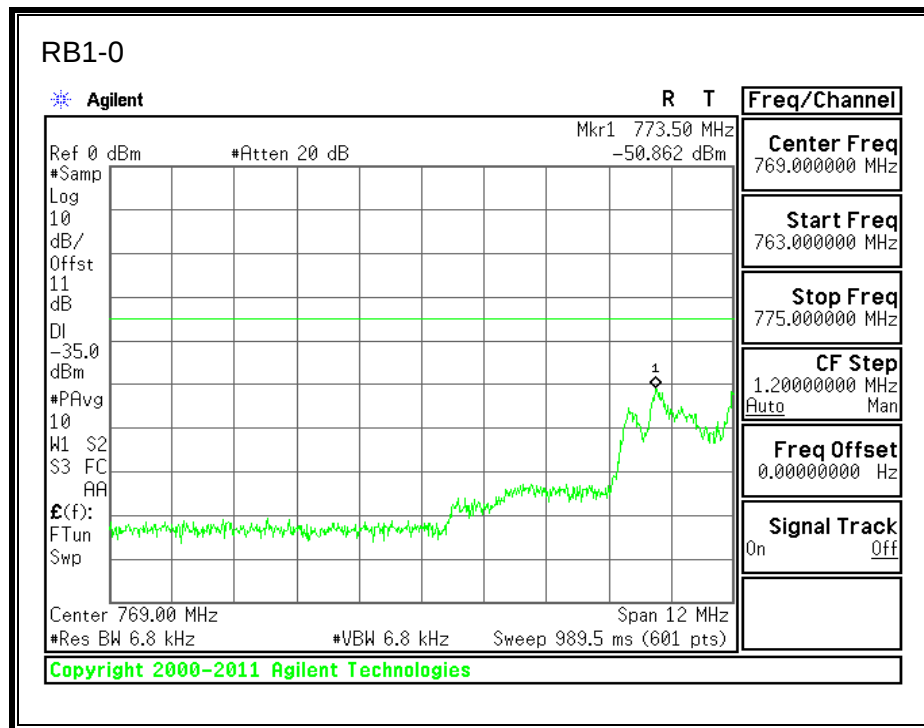


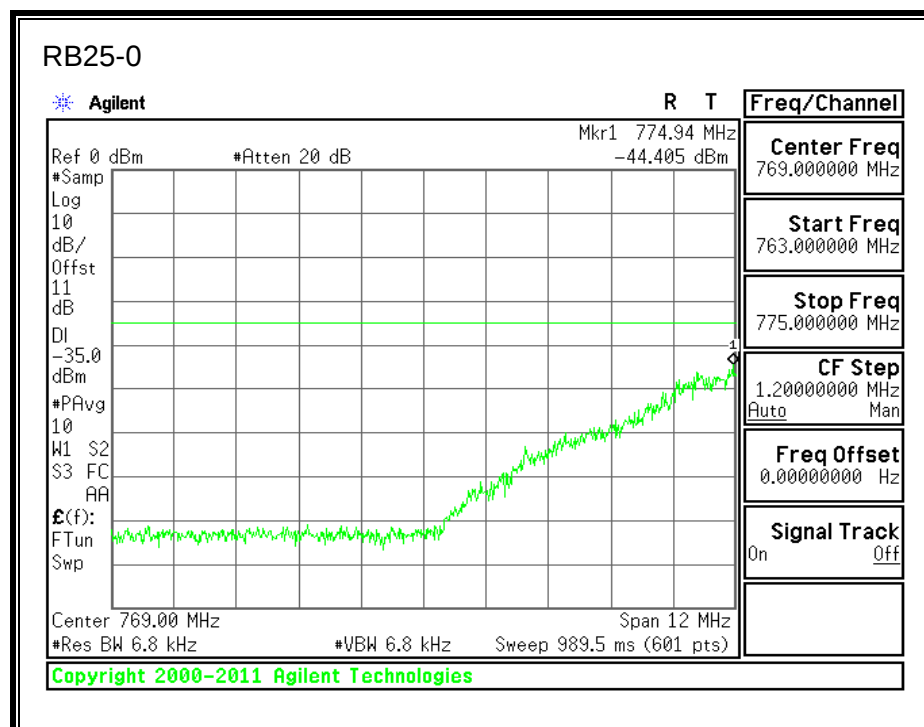
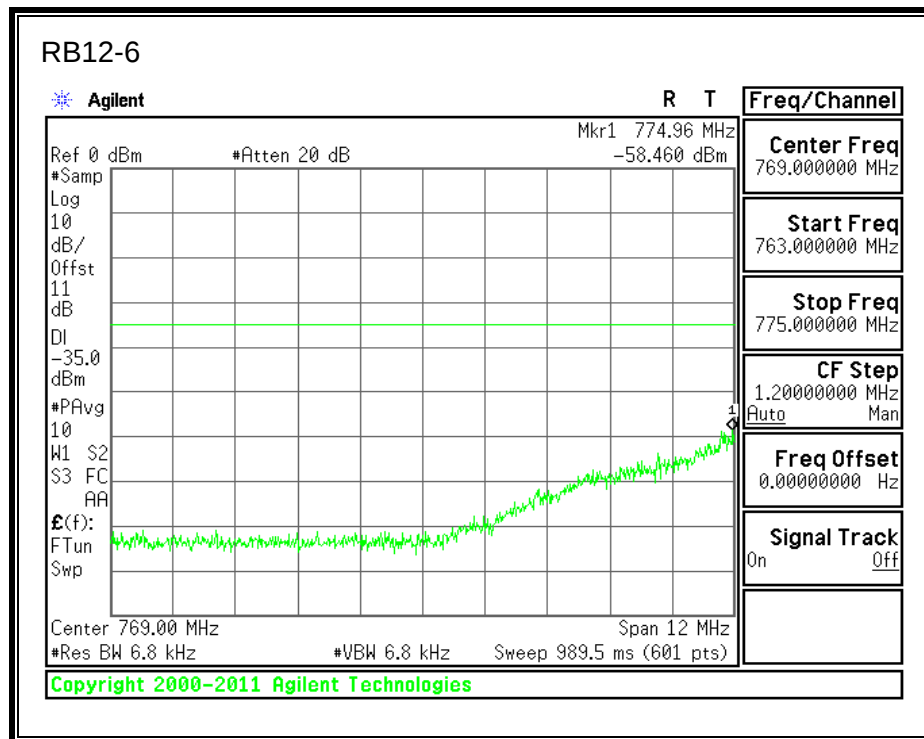
QPSK, 779.5MHz, 763 - 775MHz, (5MHz Bandwidth)



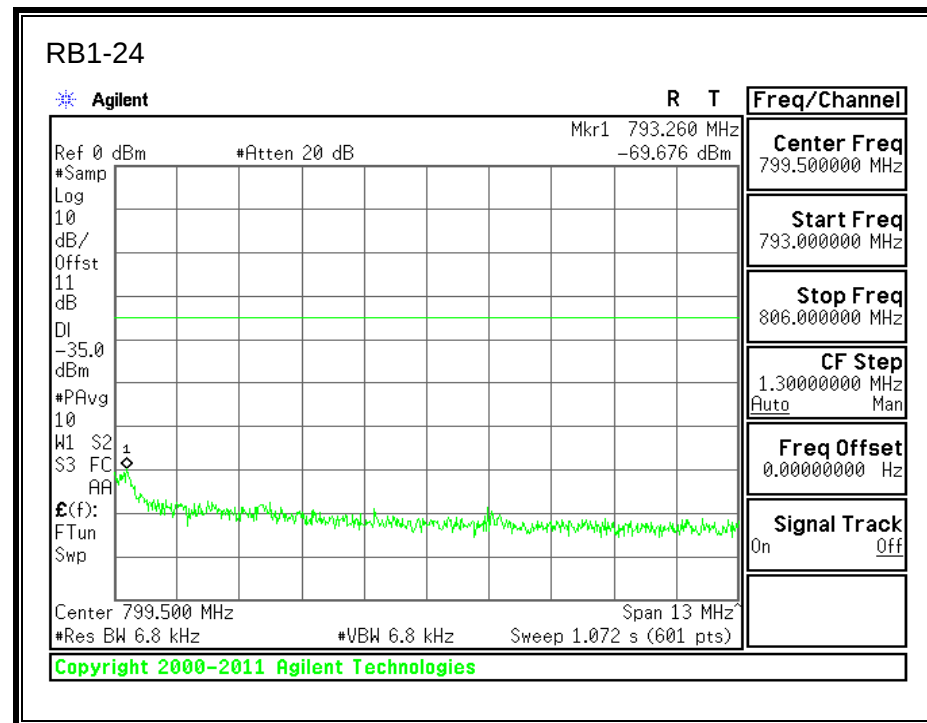
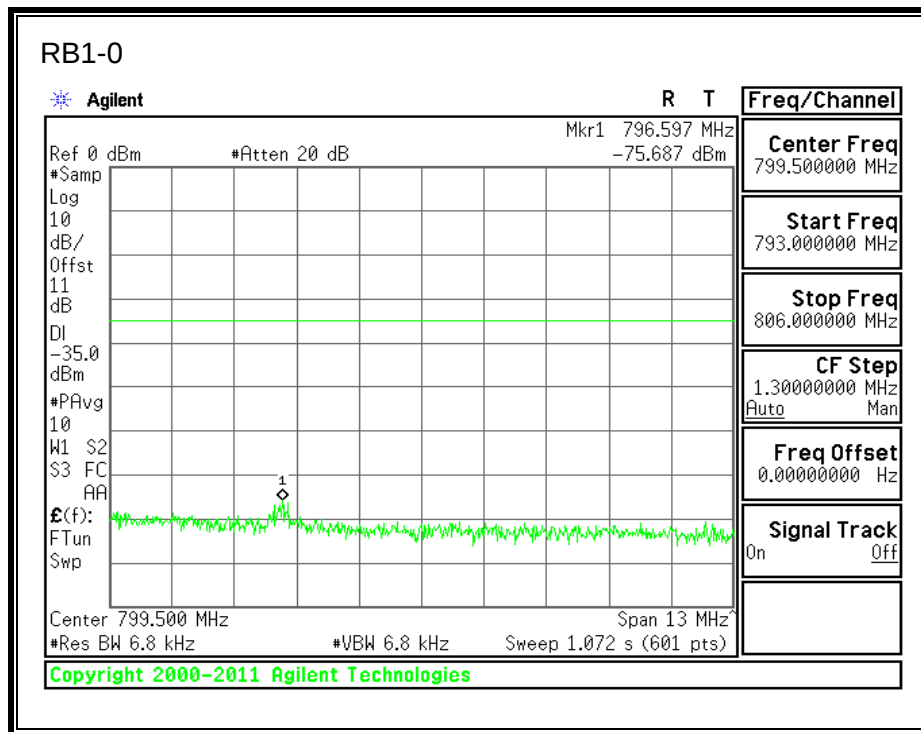


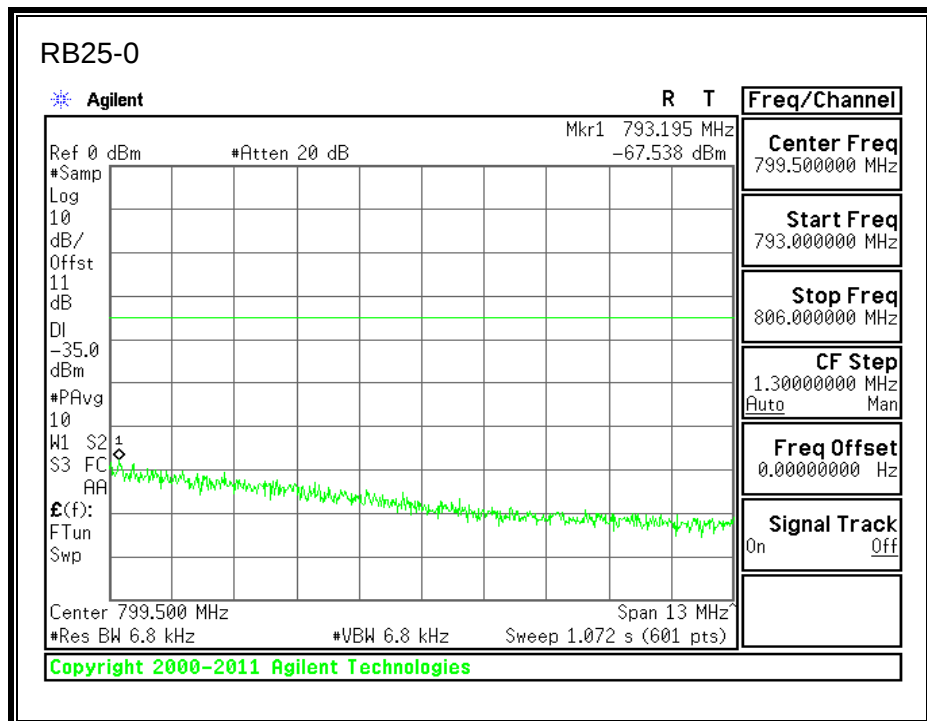
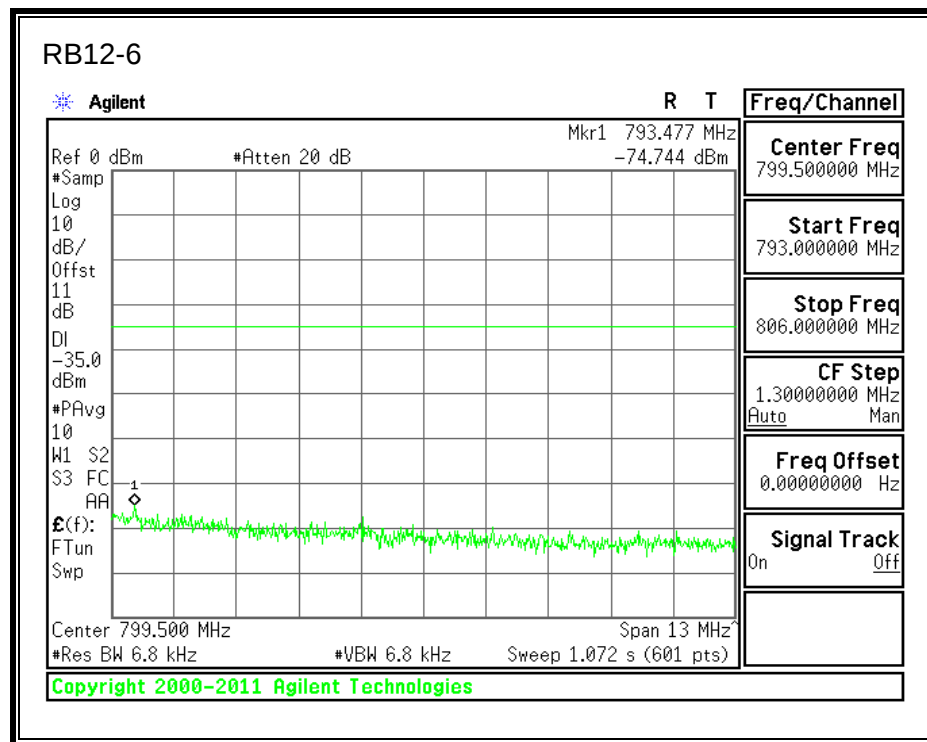
16QAM, 779.5MHz, 763-775MHz, (5MHz Bandwidth)



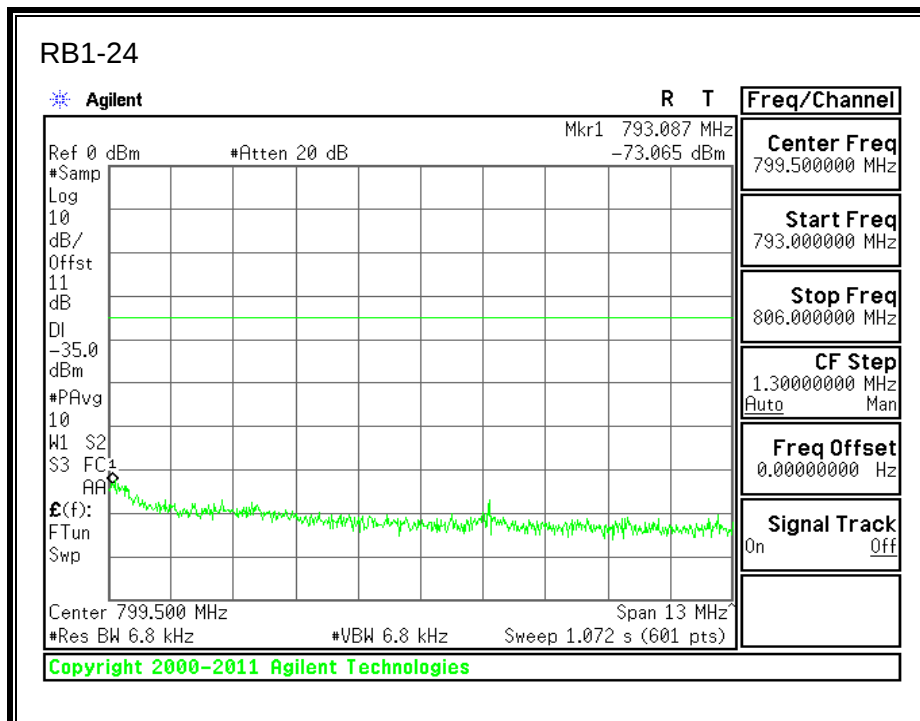
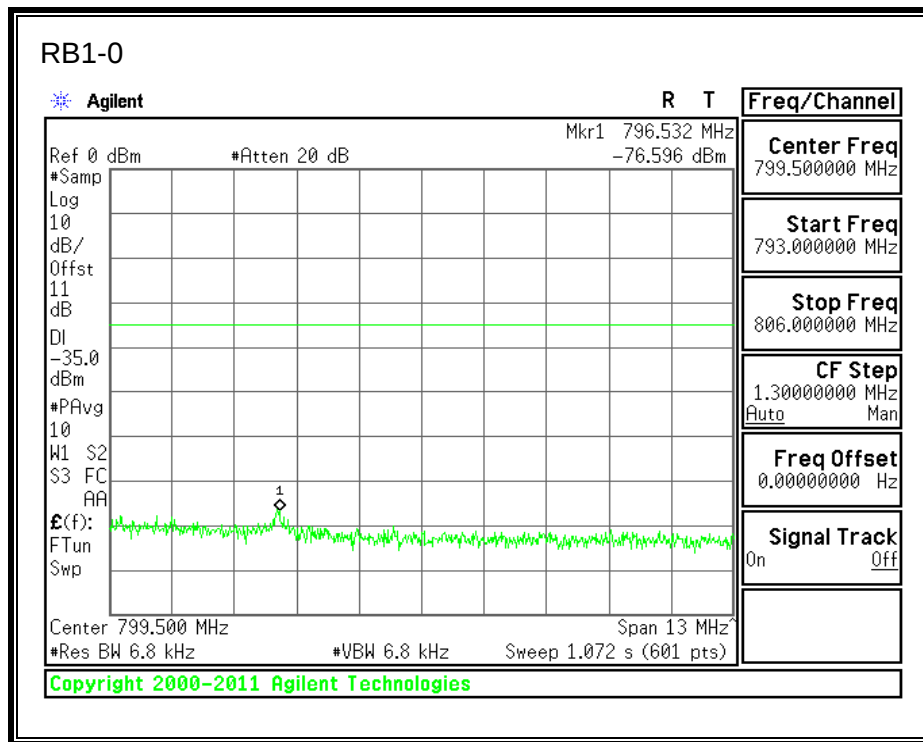


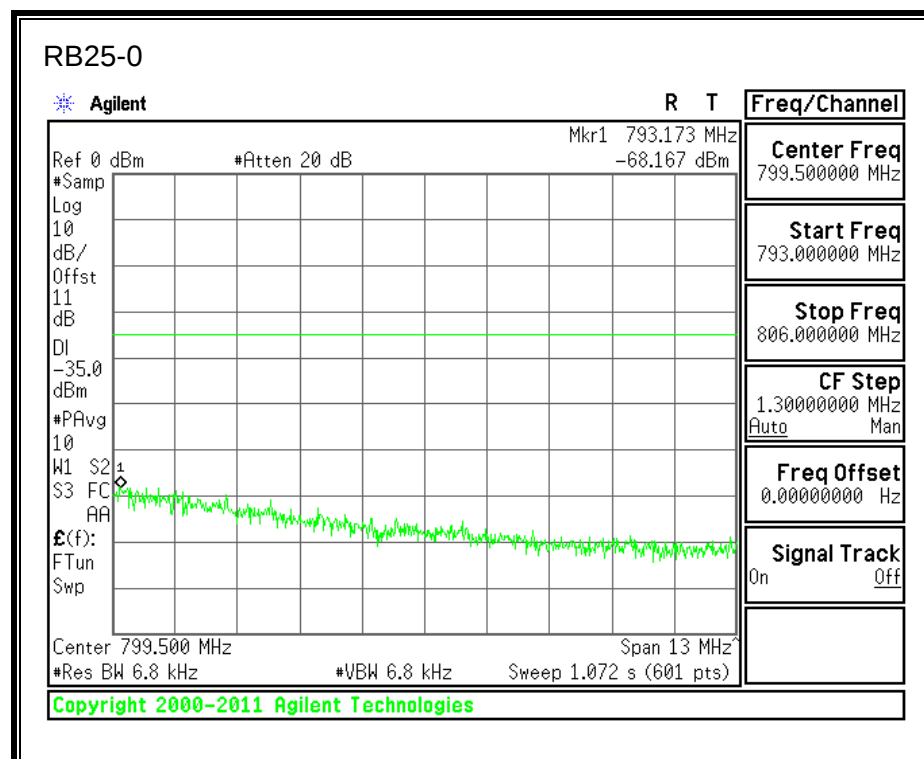
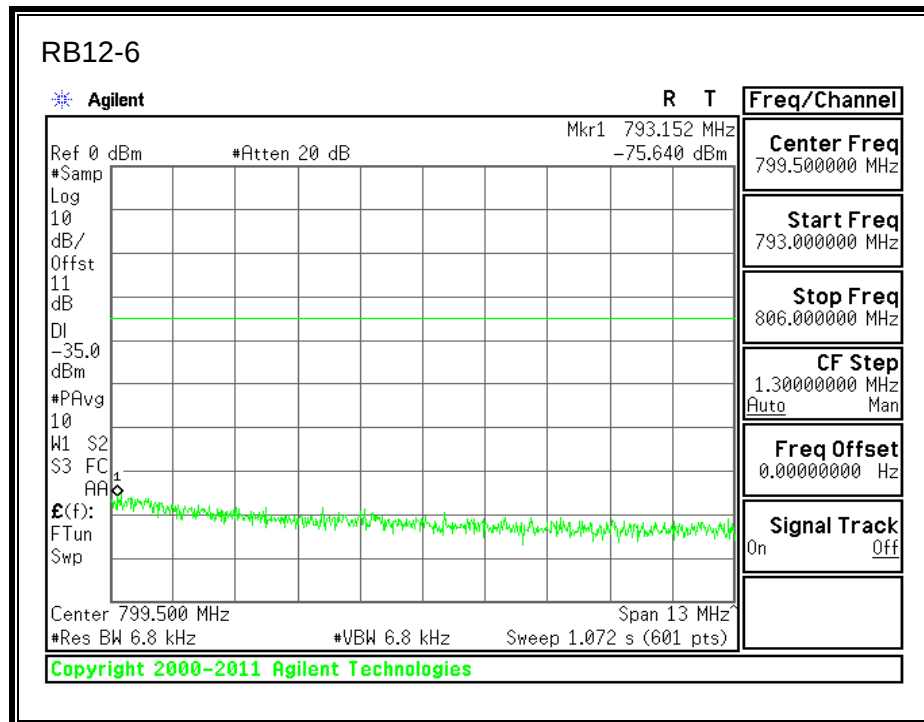
QPSK, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)



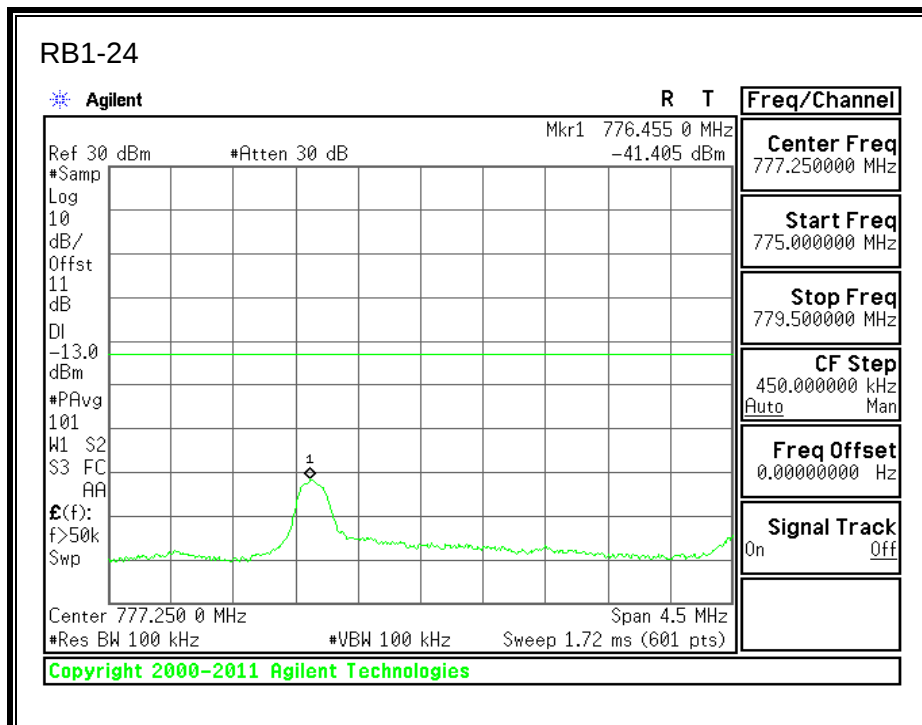
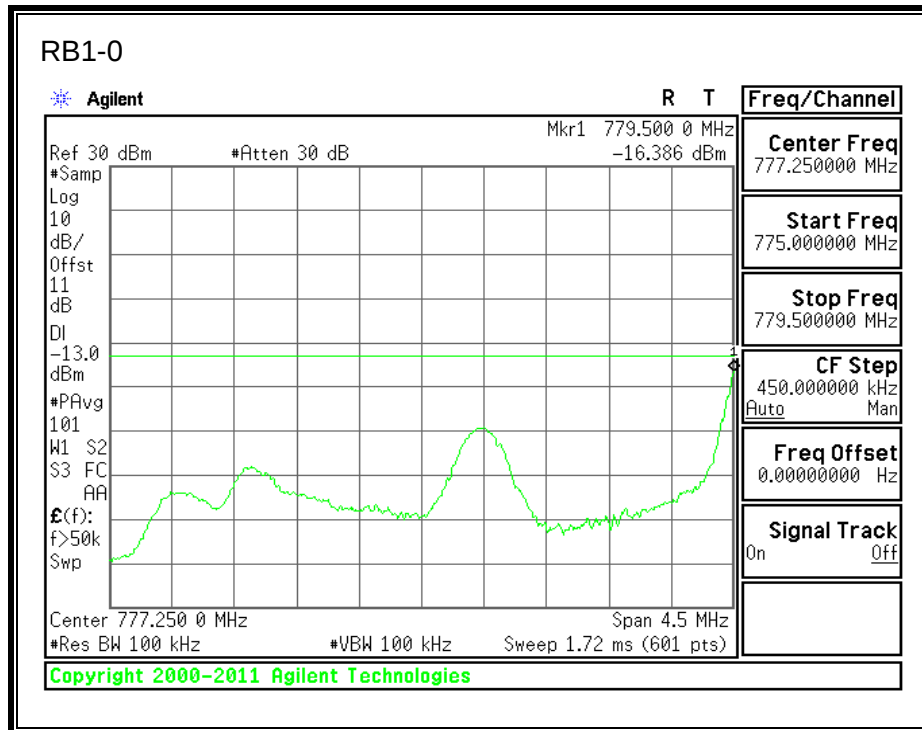


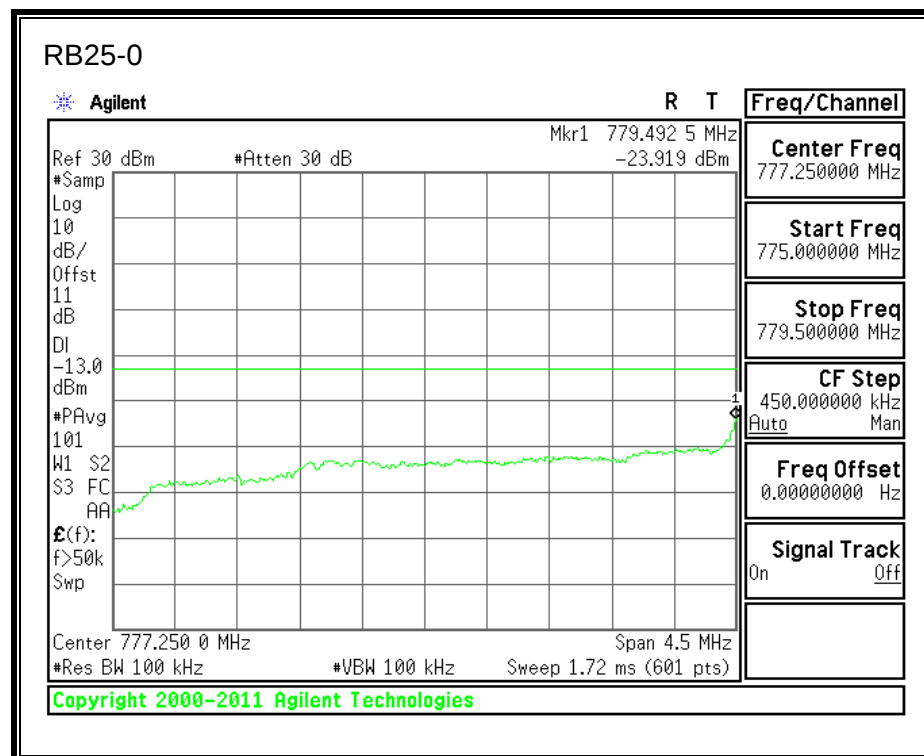
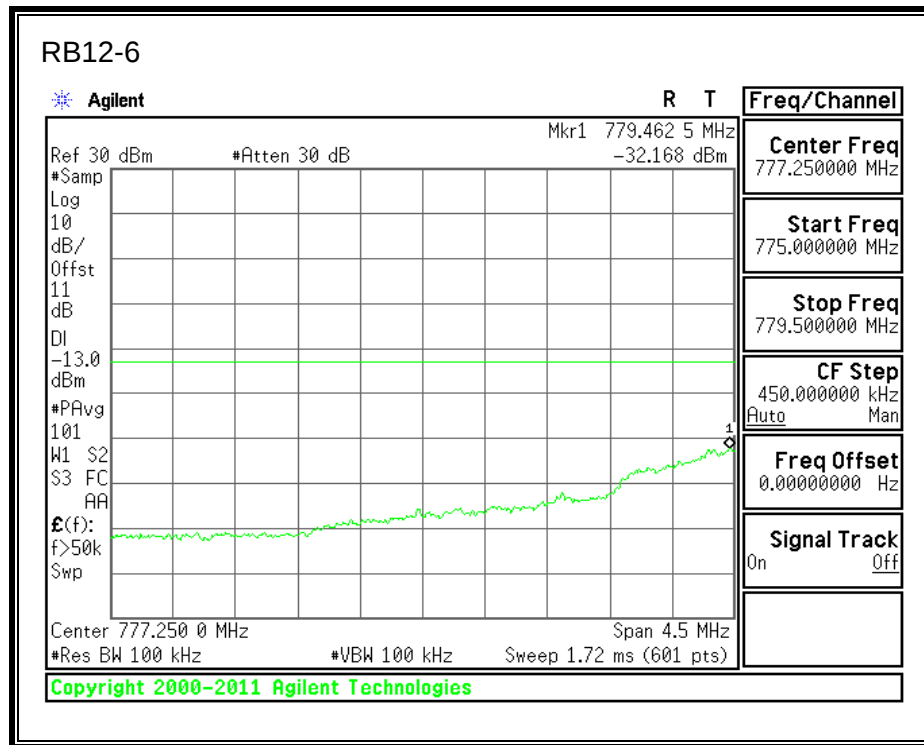
16QAM, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)



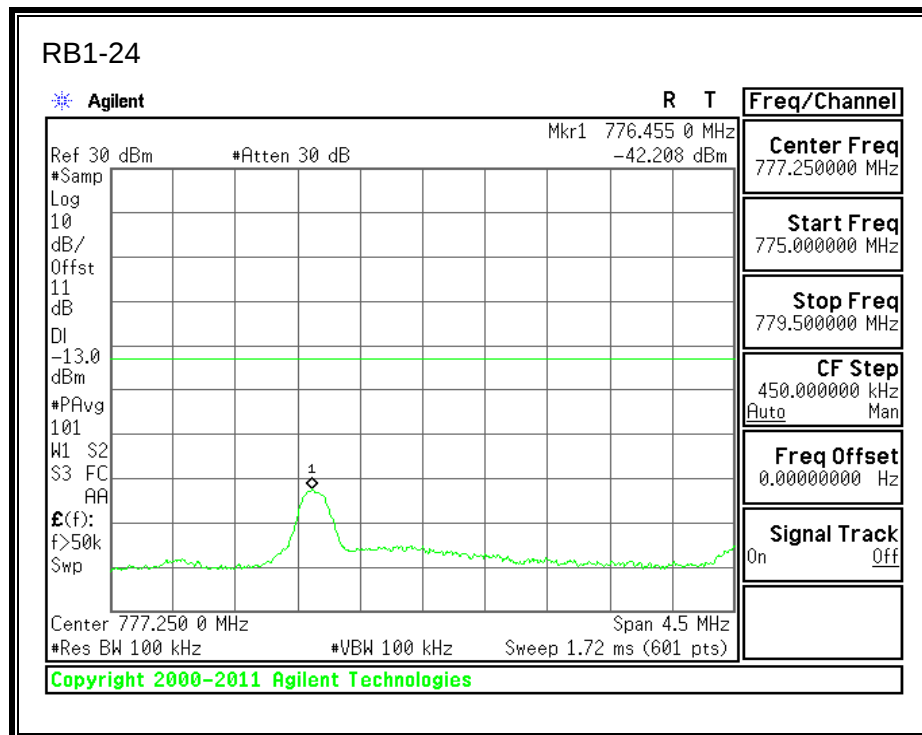
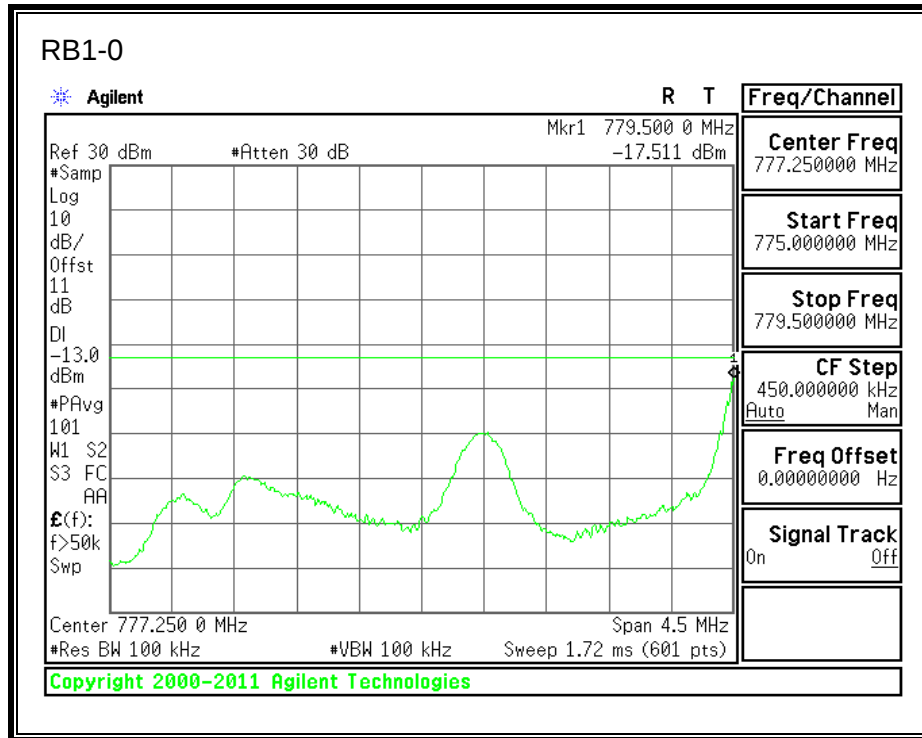


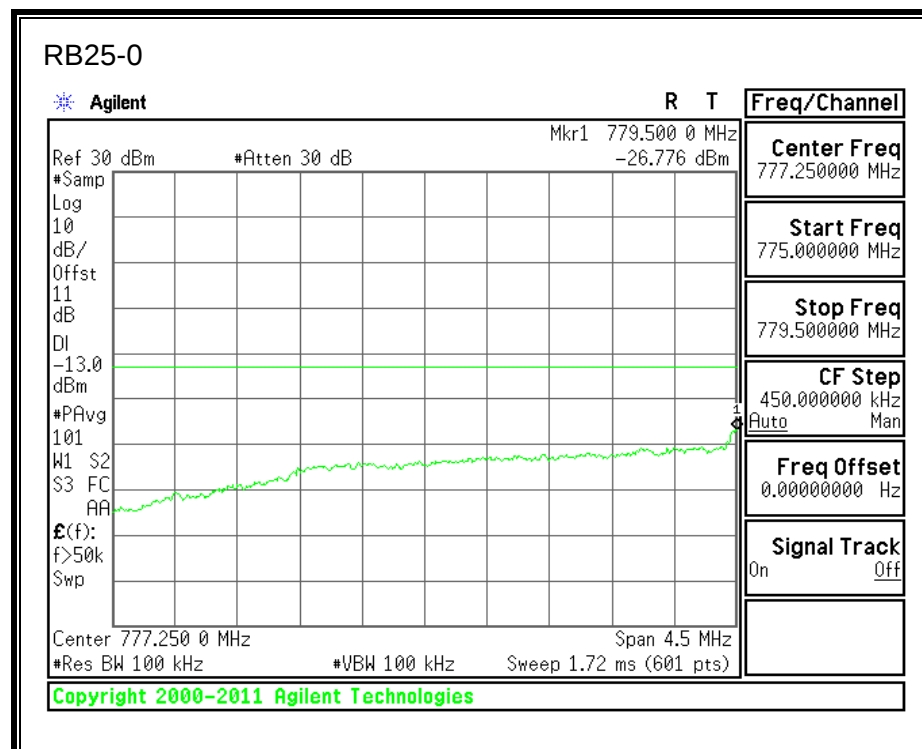
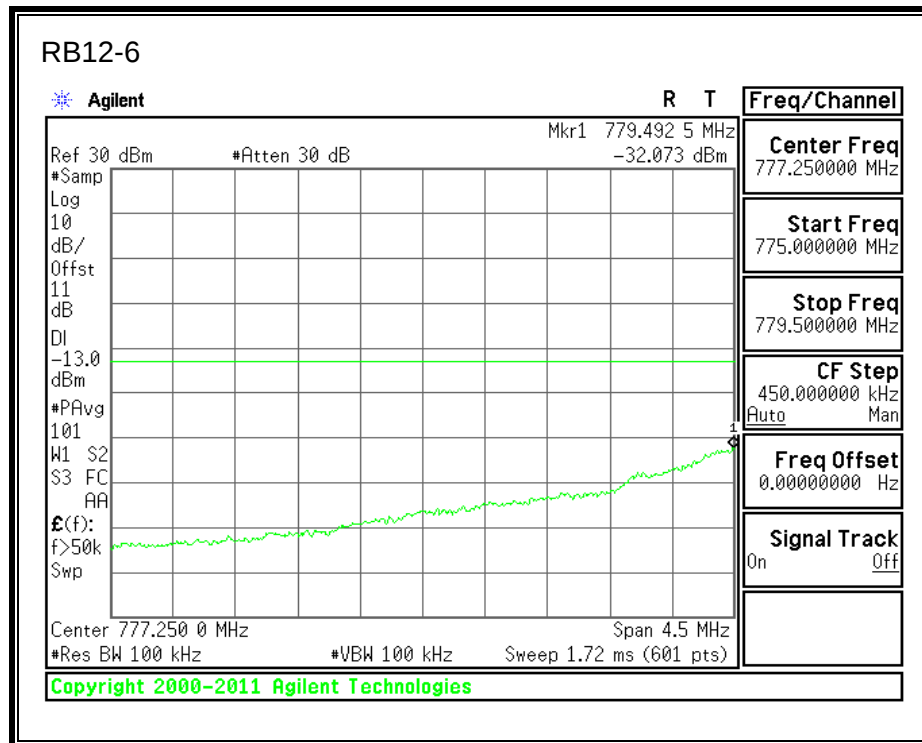
QPSK, 782MHz, 775 – 779.5MHz, (5MHz Bandwidth)



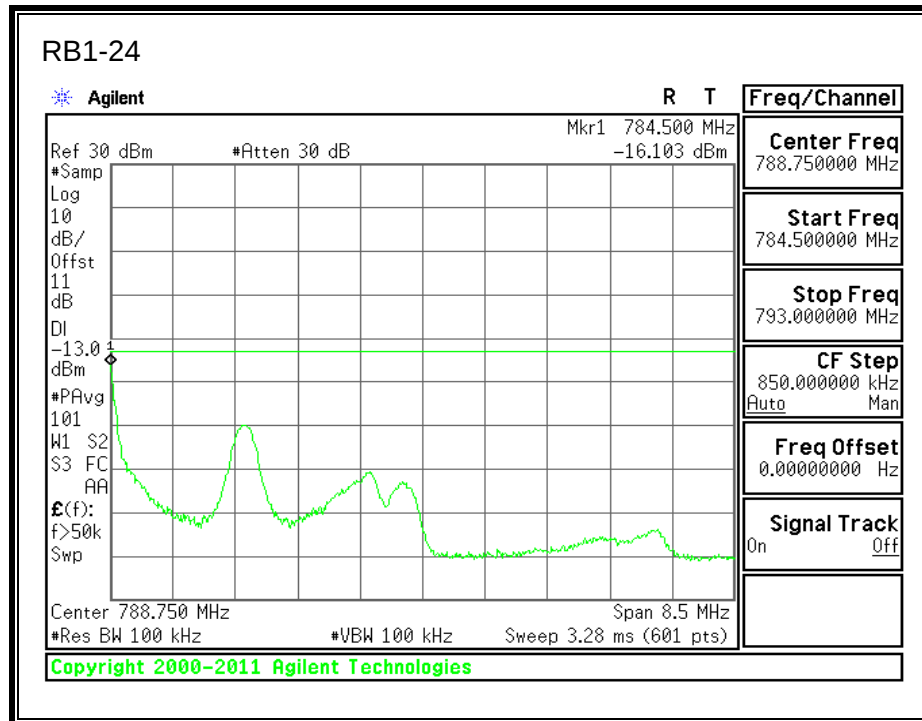
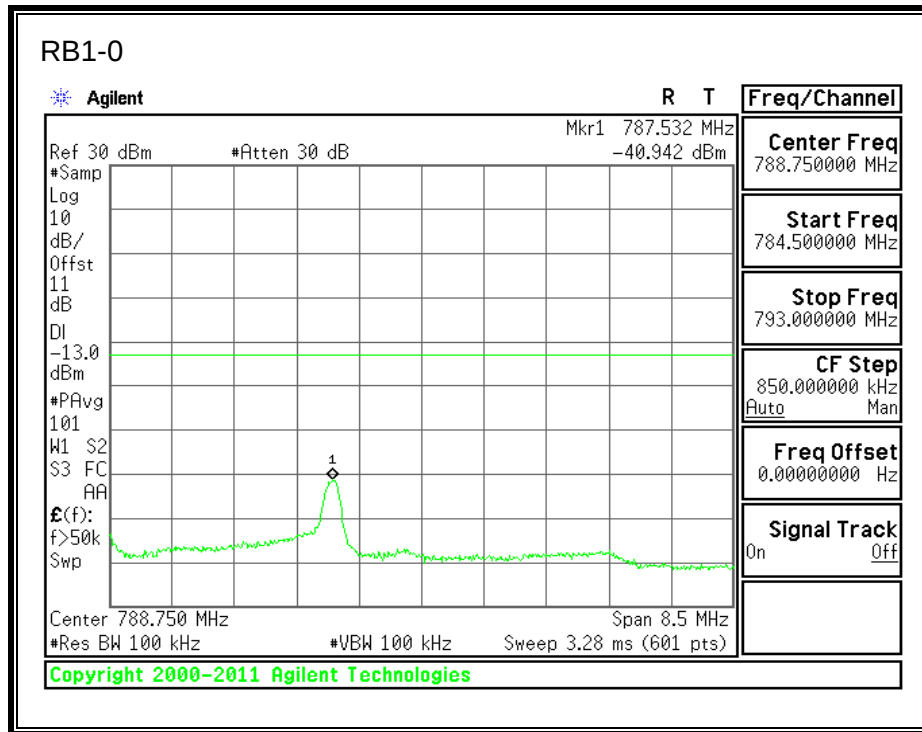


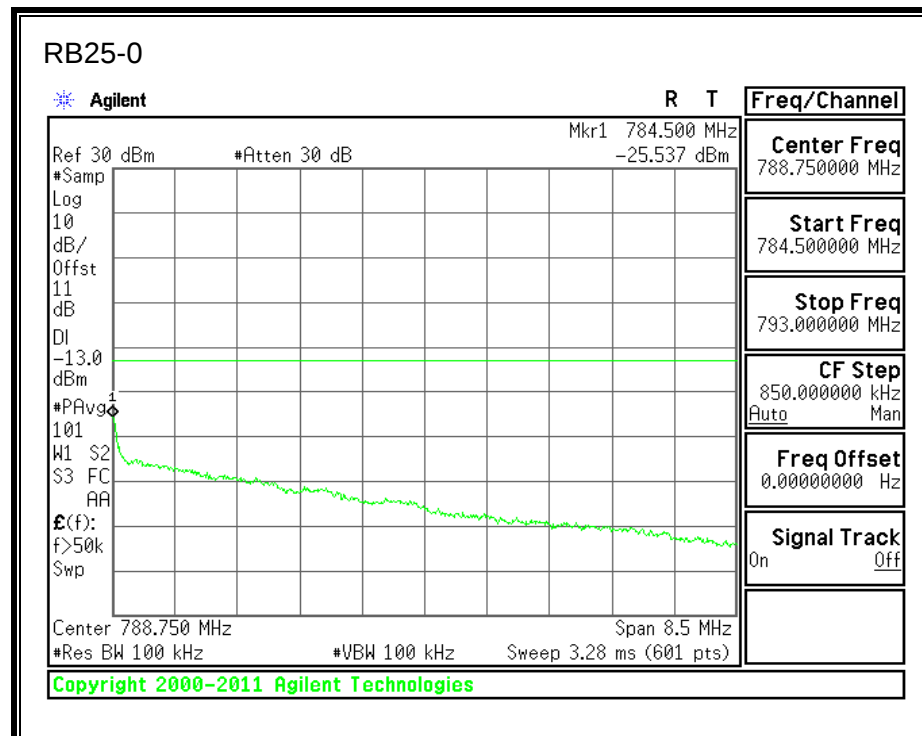
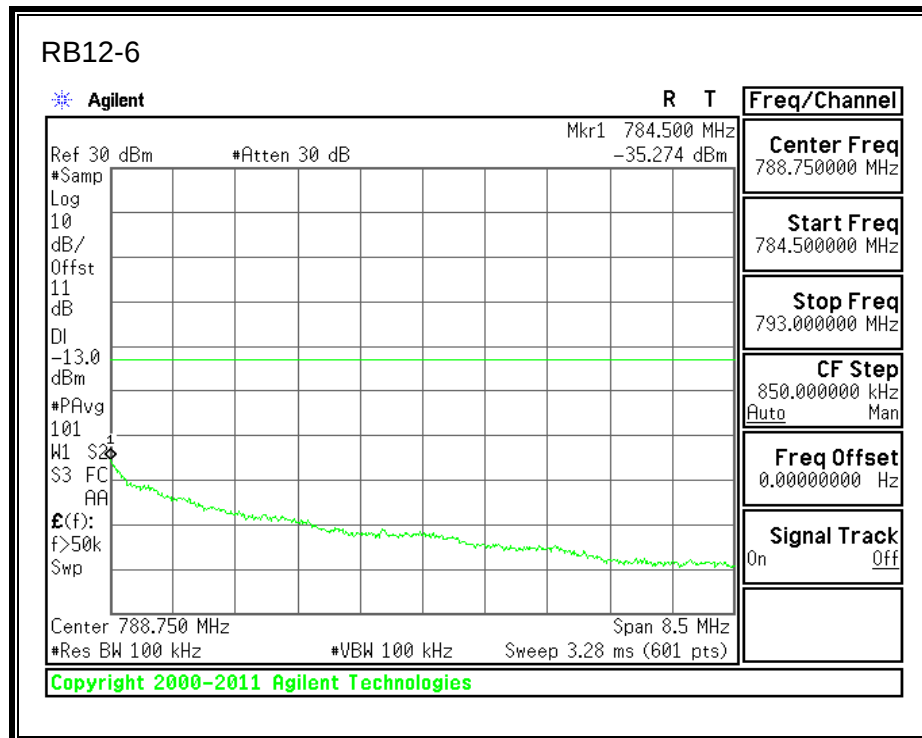
16QAM, 782MHz, 775 - 777MHz, (5MHz Bandwidth)



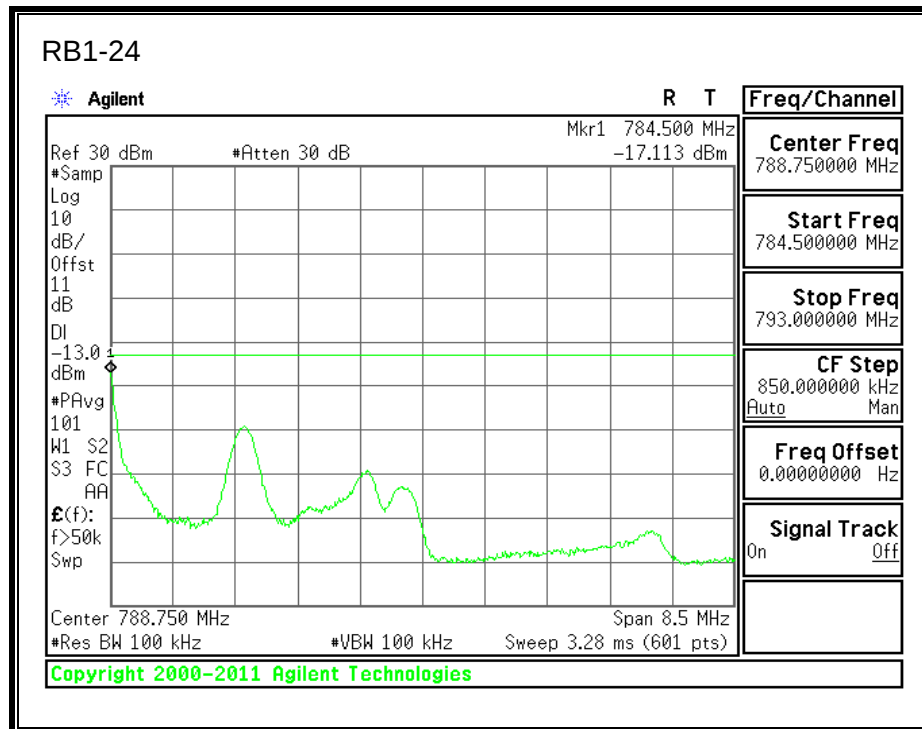
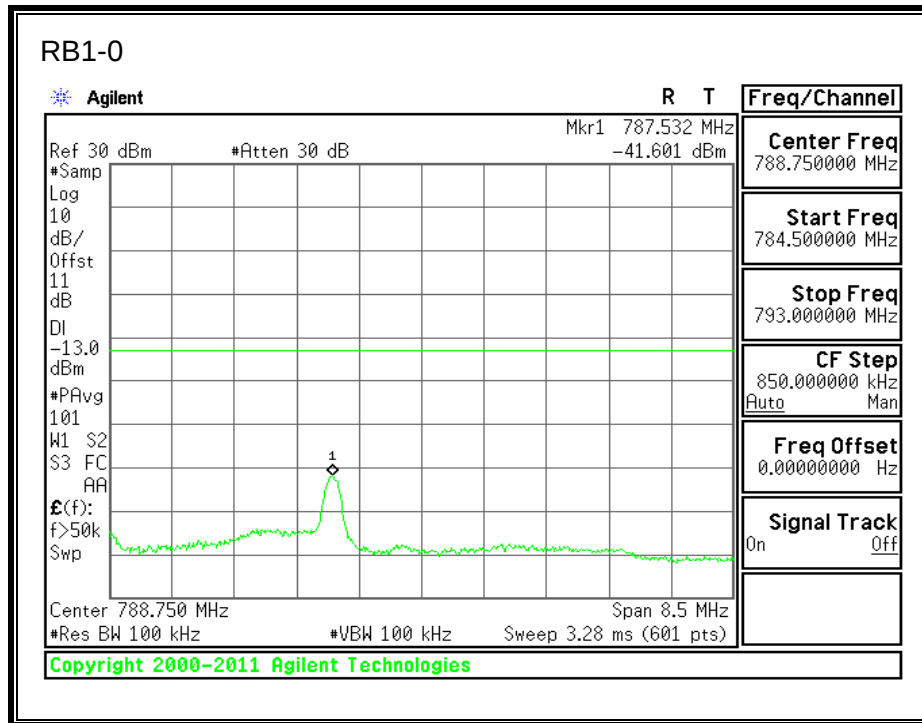


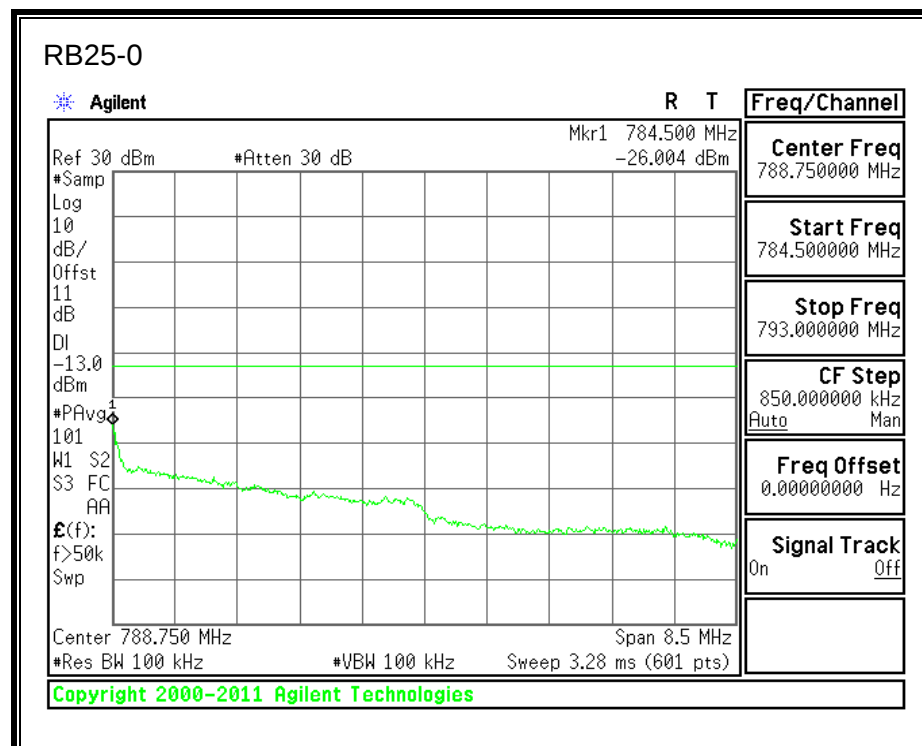
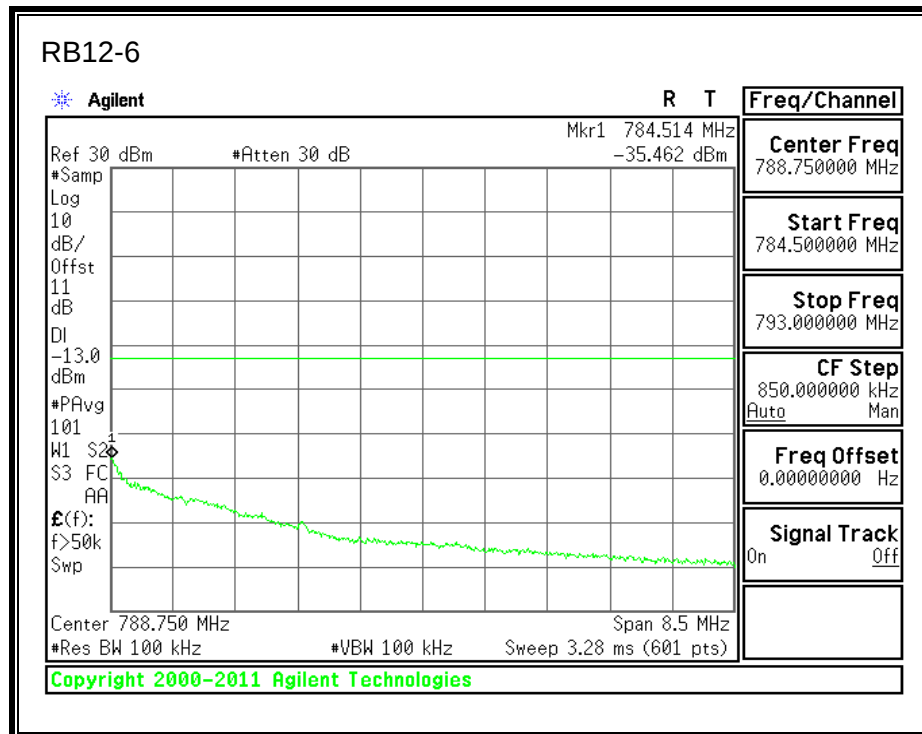
QPSK, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)



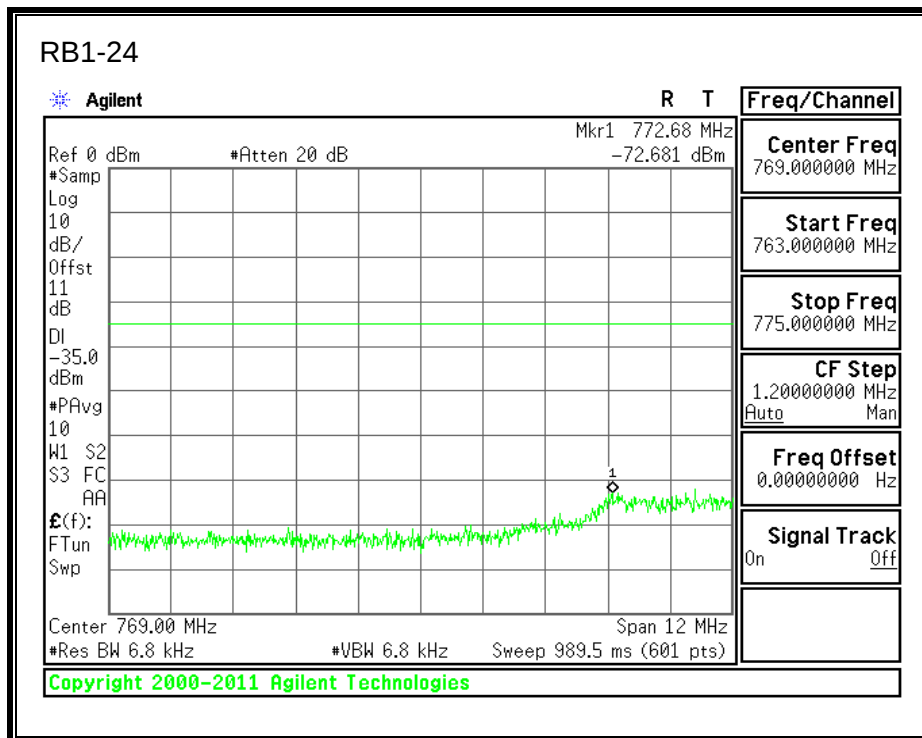
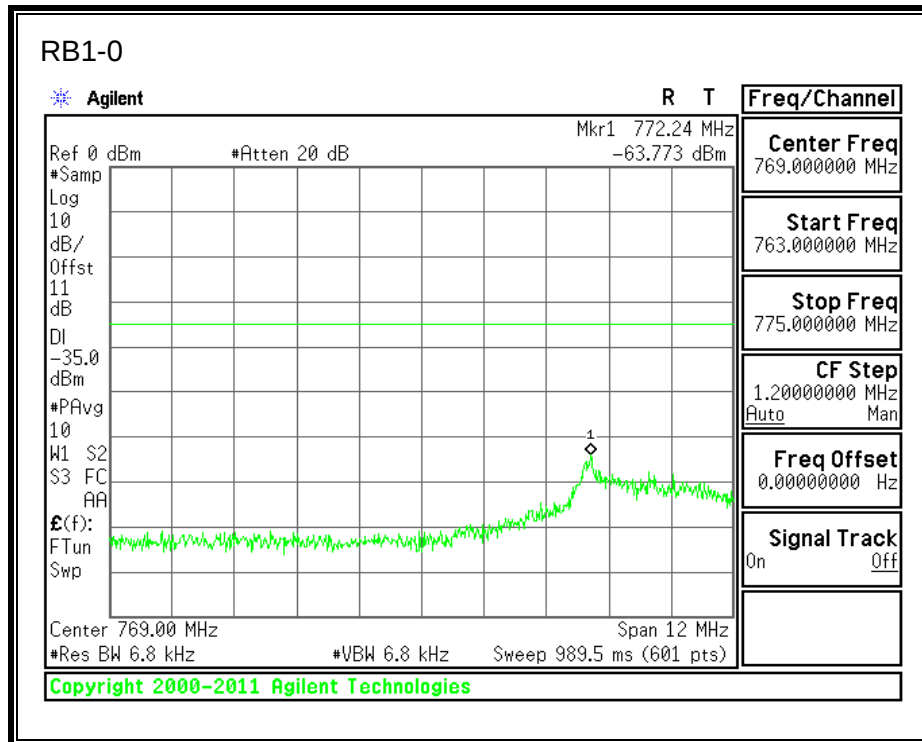


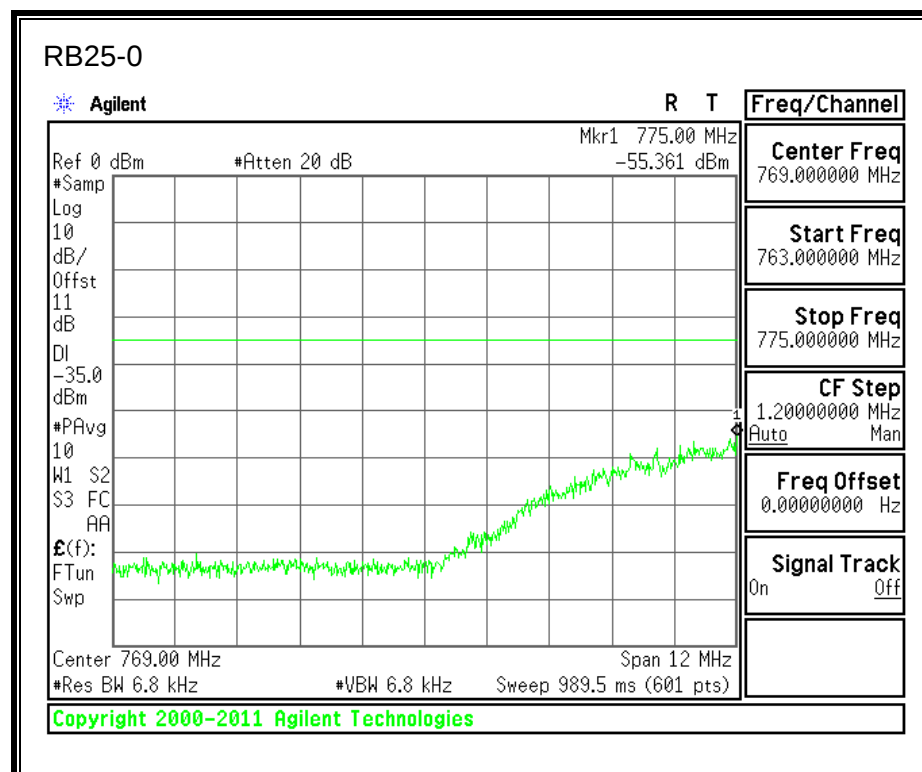
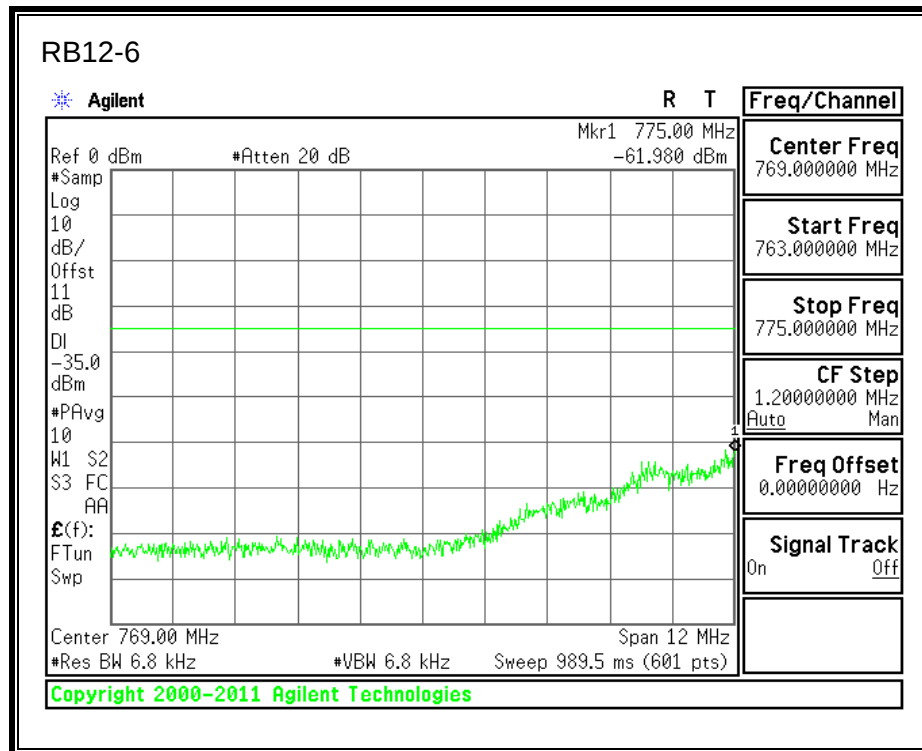
16QAM, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)



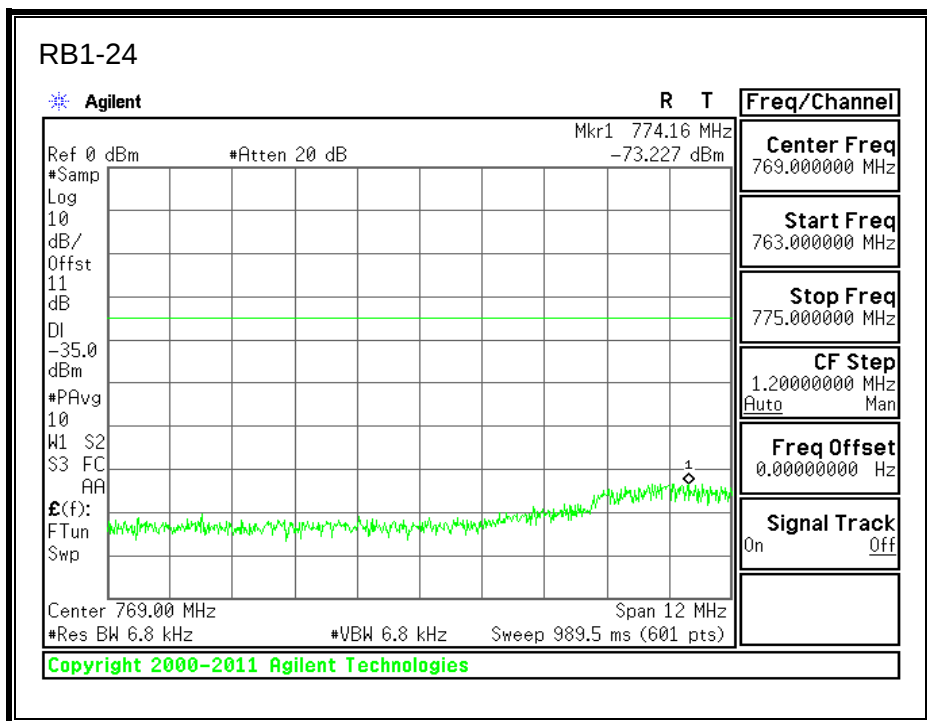
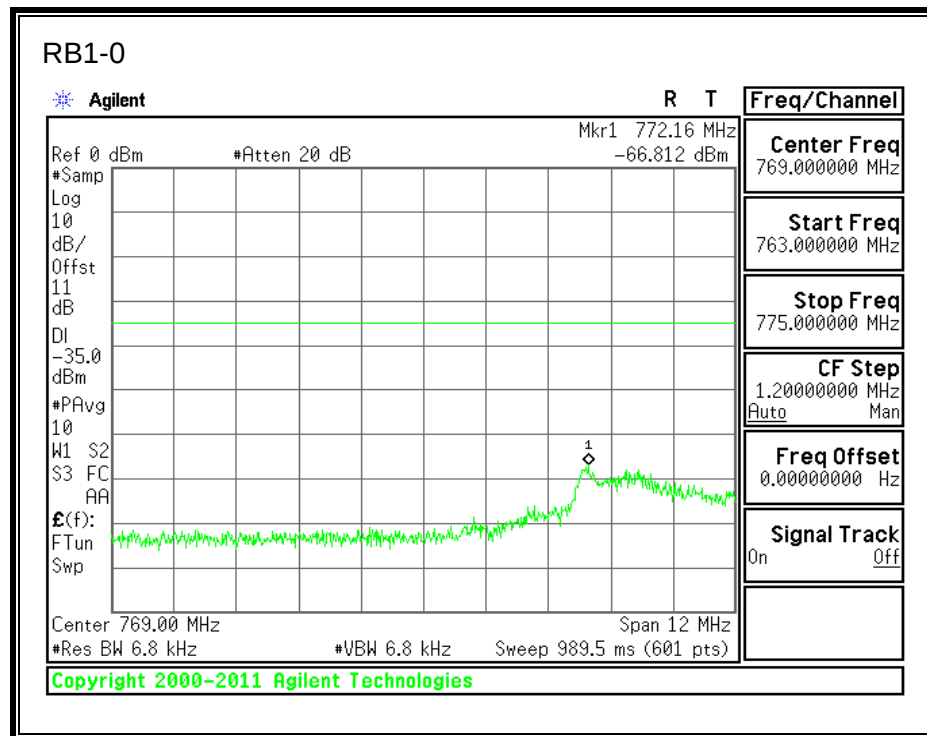


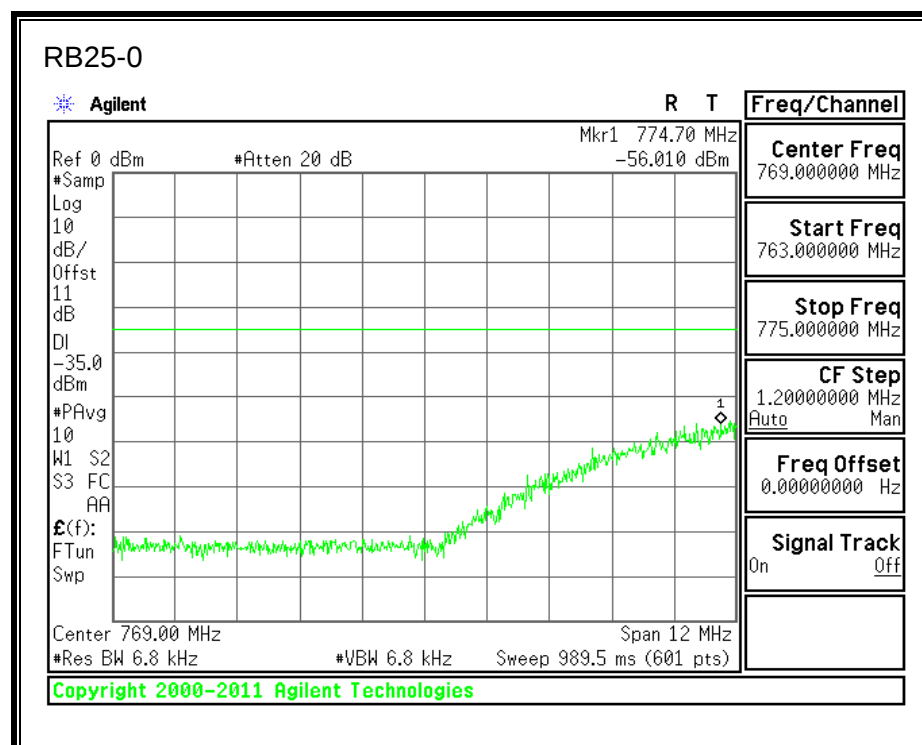
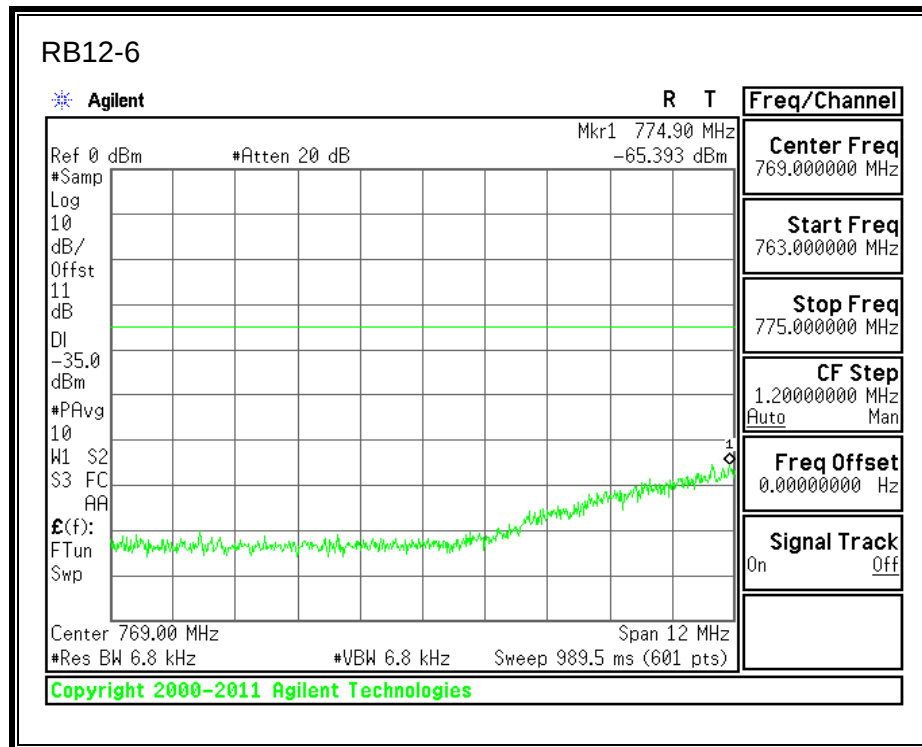
QPSK, 782MHz, 763 - 775MHz, (5MHz Bandwidth)



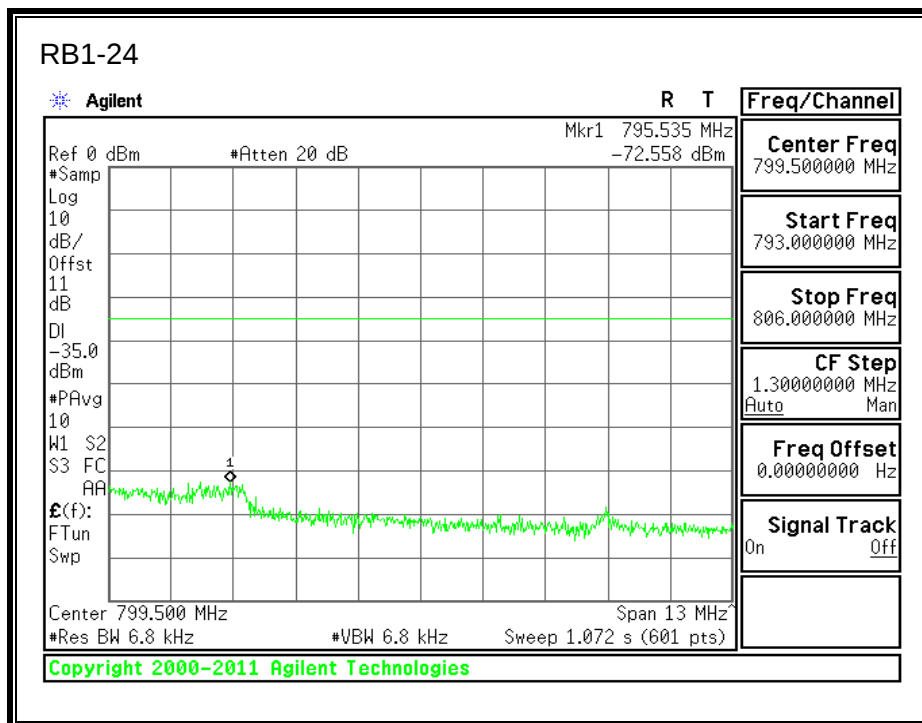
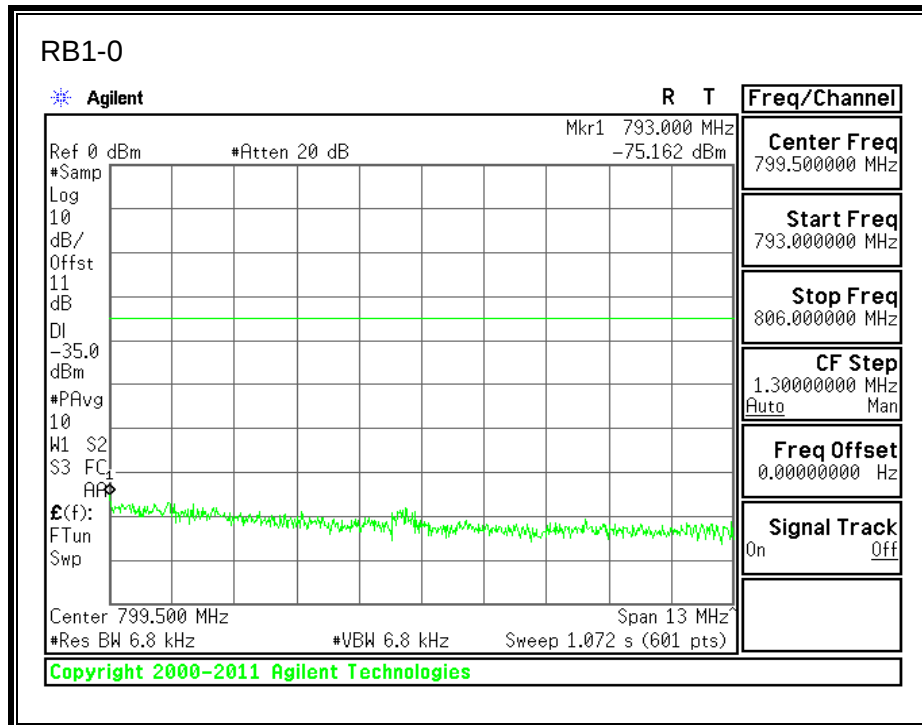


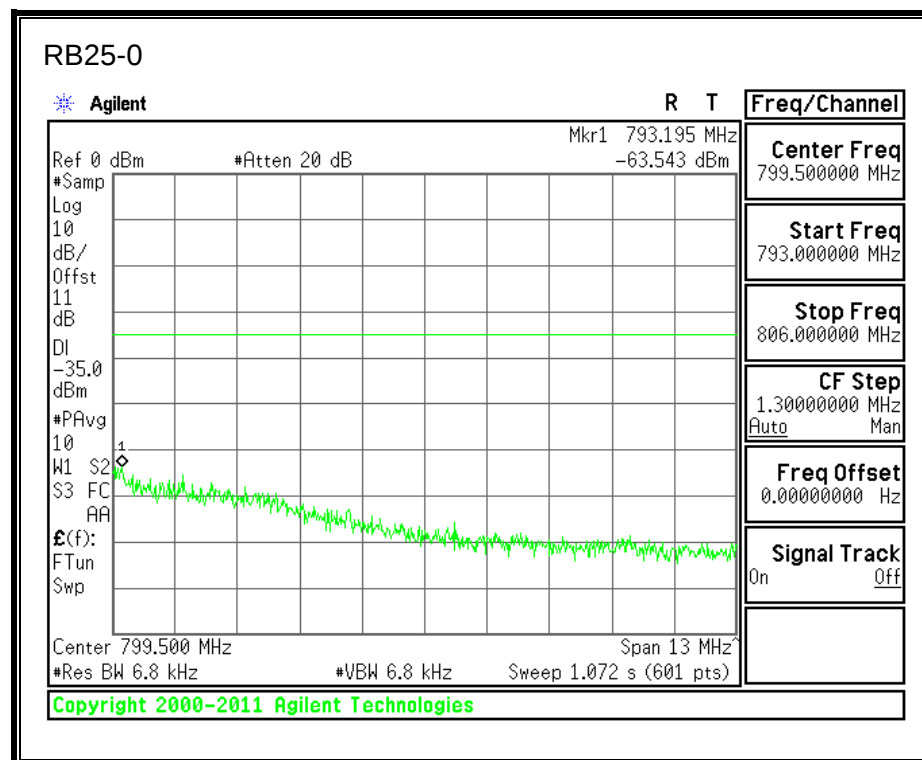
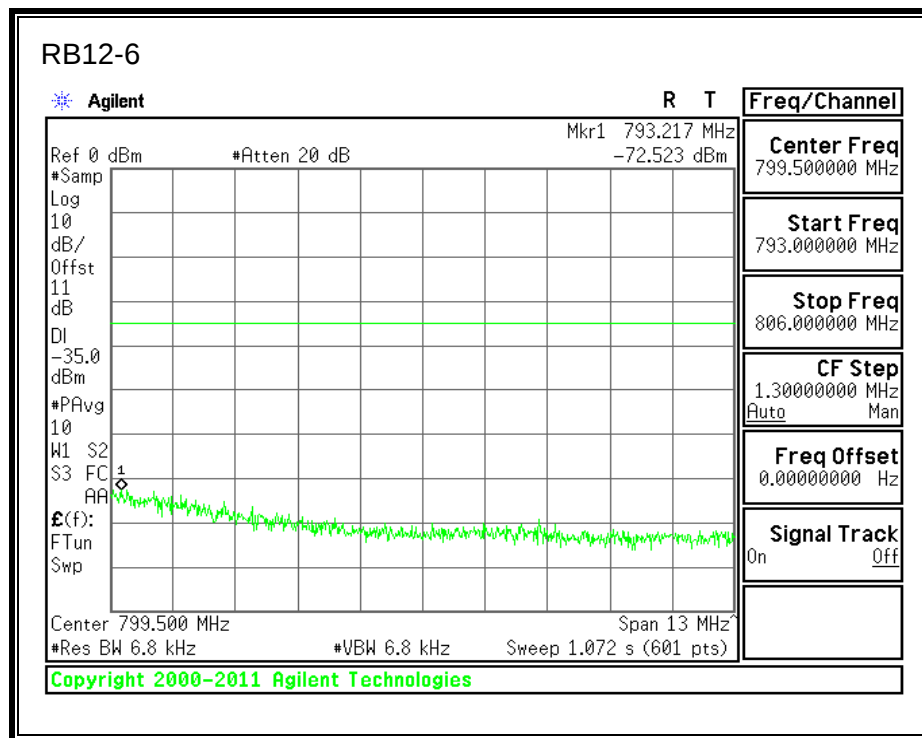
16QAM, 782MHz, 763 - 775MHz, (5MHz Bandwidth)





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





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

