

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: All-in-One PC

Trade Mark: onebot

Test Model: L2416

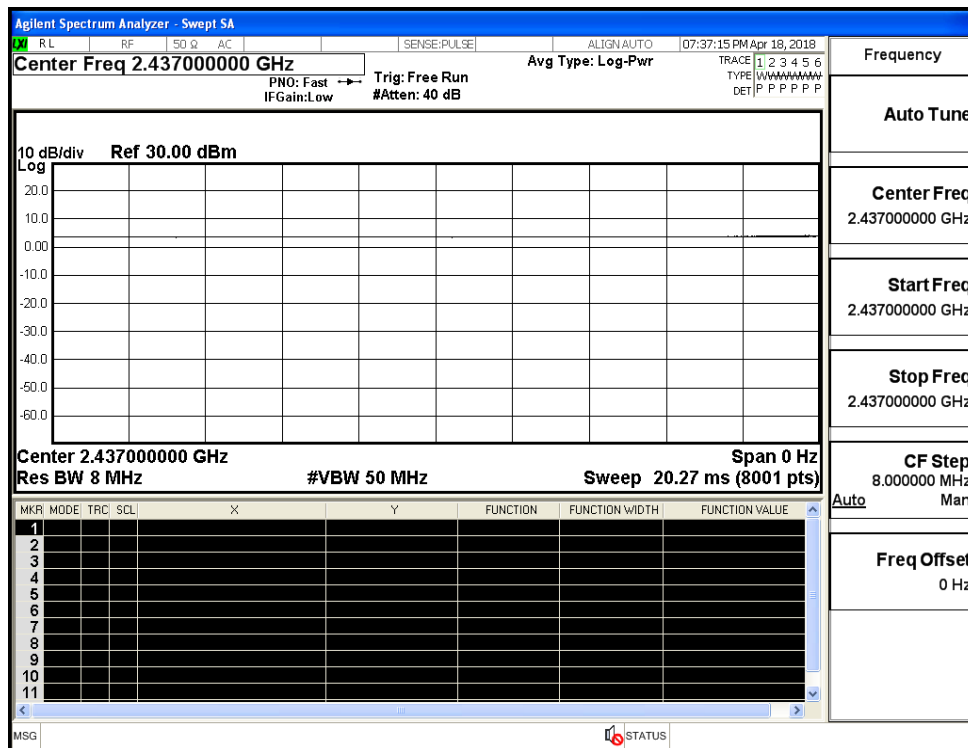
Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden Zhuo

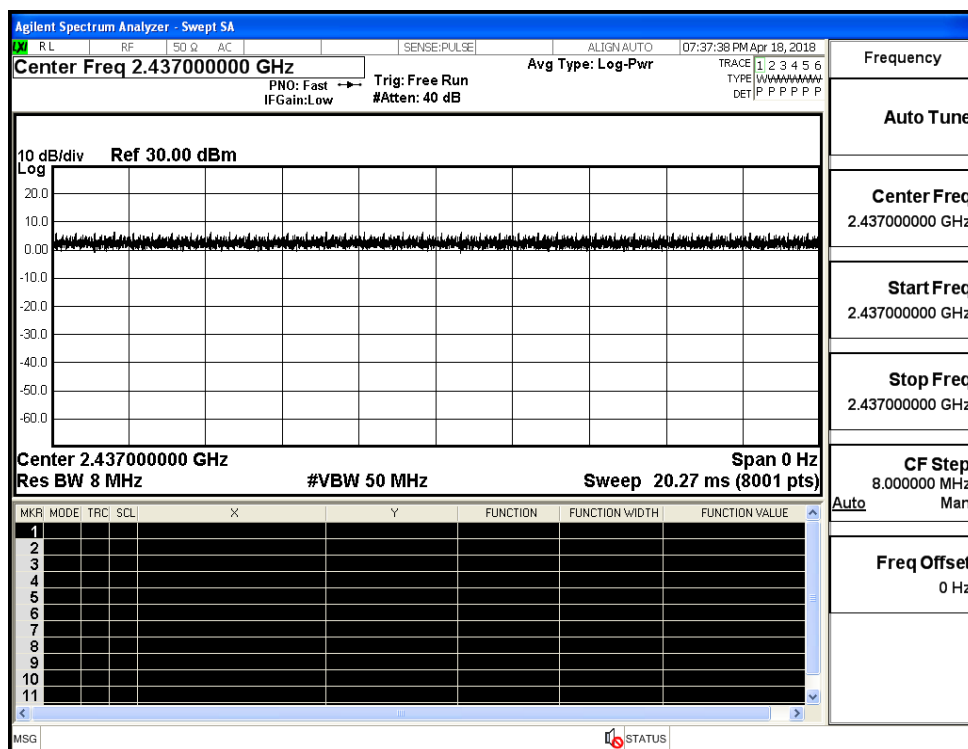
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

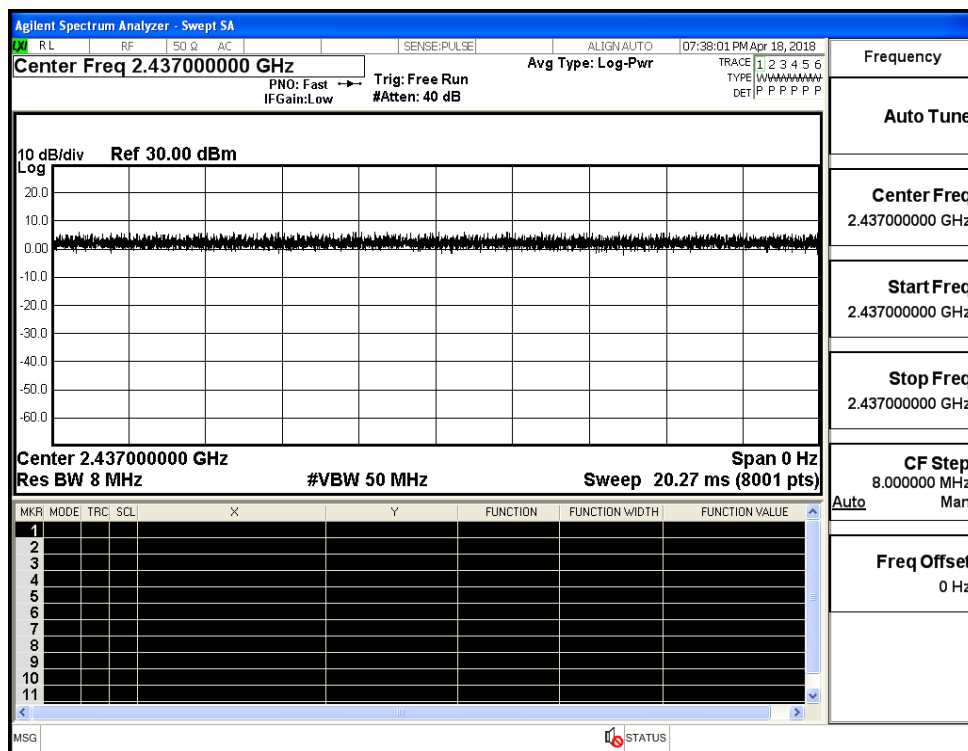
Duty Cycle_11B_2437_Ant1



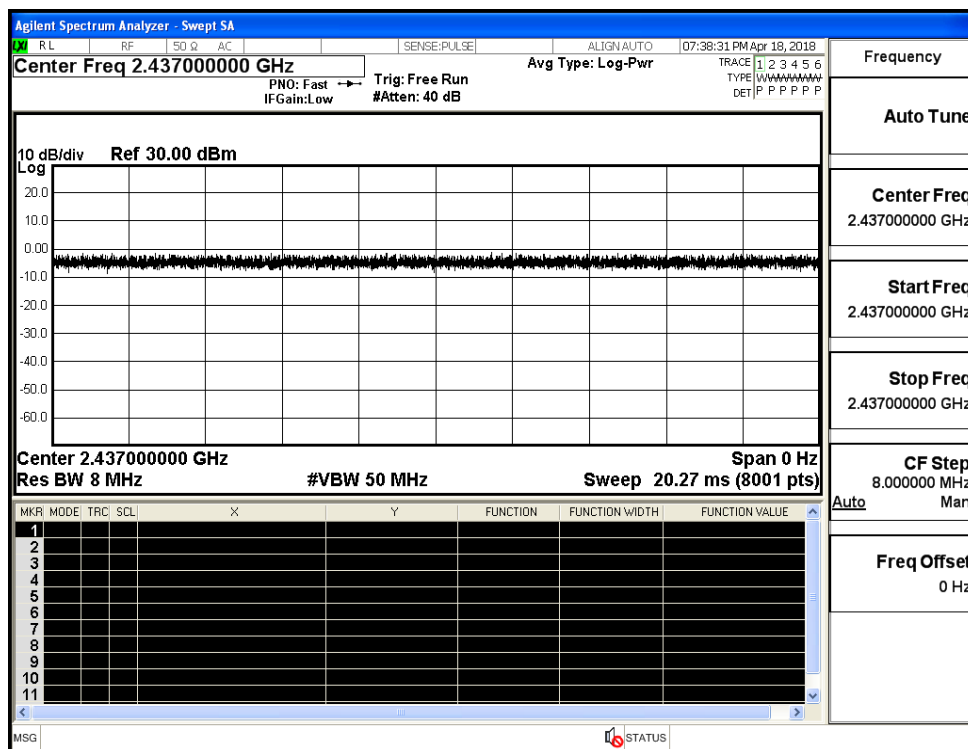
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



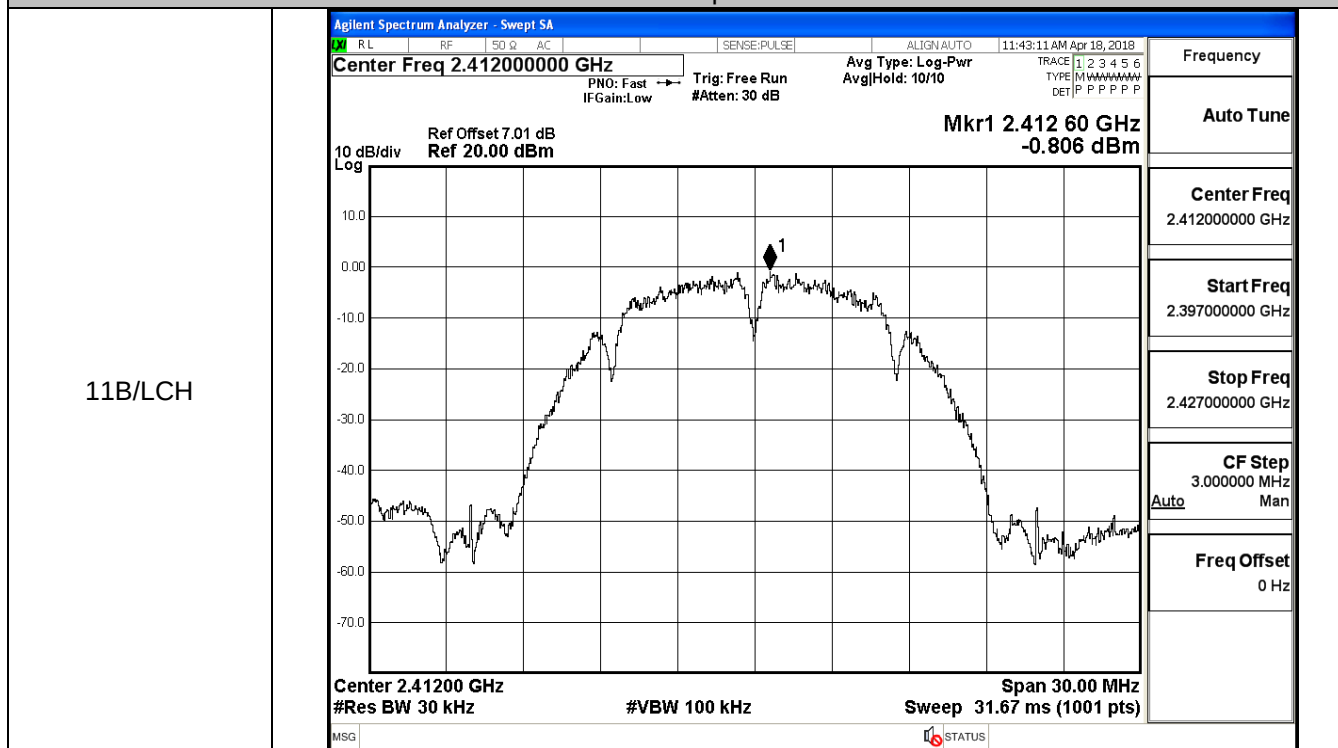
A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.81	30	PASS
	MCH	14.90	30	PASS
	HCH	14.74	30	PASS
11G	LCH	15.65	30	PASS
	MCH	15.21	30	PASS
	HCH	15.06	30	PASS
11N20SISO	LCH	14.52	30	PASS
	MCH	14.81	30	PASS
	HCH	15.10	30	PASS
11N40SISO	LCH	15.43	30	PASS
	MCH	14.98	30	PASS
	HCH	15.48	30	PASS

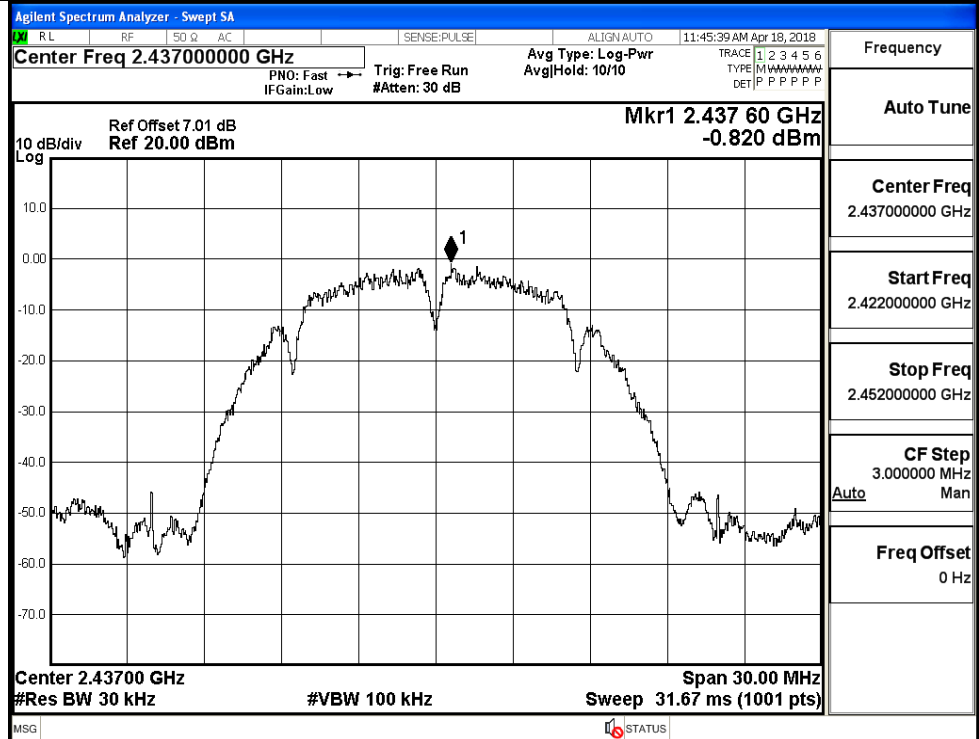
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-0.806	8	PASS
	MCH	-0.820	8	PASS
	HCH	-0.925	8	PASS
11G	LCH	-8.348	8	PASS
	MCH	-7.997	8	PASS
	HCH	-8.008	8	PASS
11N20SISO	LCH	-7.558	8	PASS
	MCH	-7.098	8	PASS
	HCH	-8.198	8	PASS
11N40SISO	LCH	-10.763	8	PASS
	MCH	-10.945	8	PASS
	HCH	-10.872	8	PASS

Test Graphs



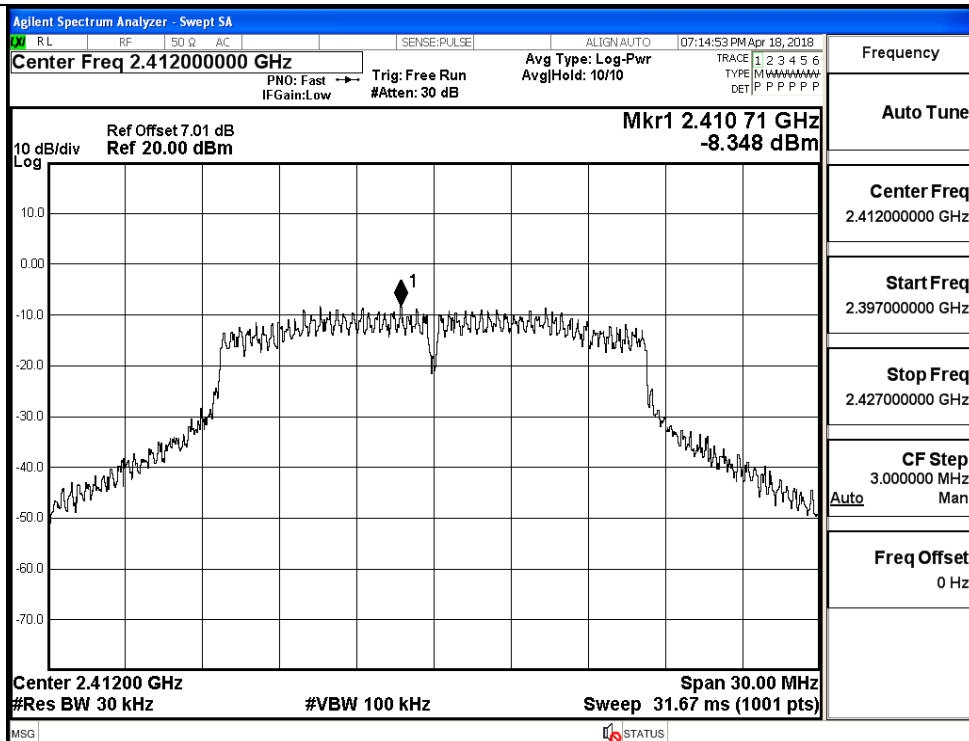
11B/MCH



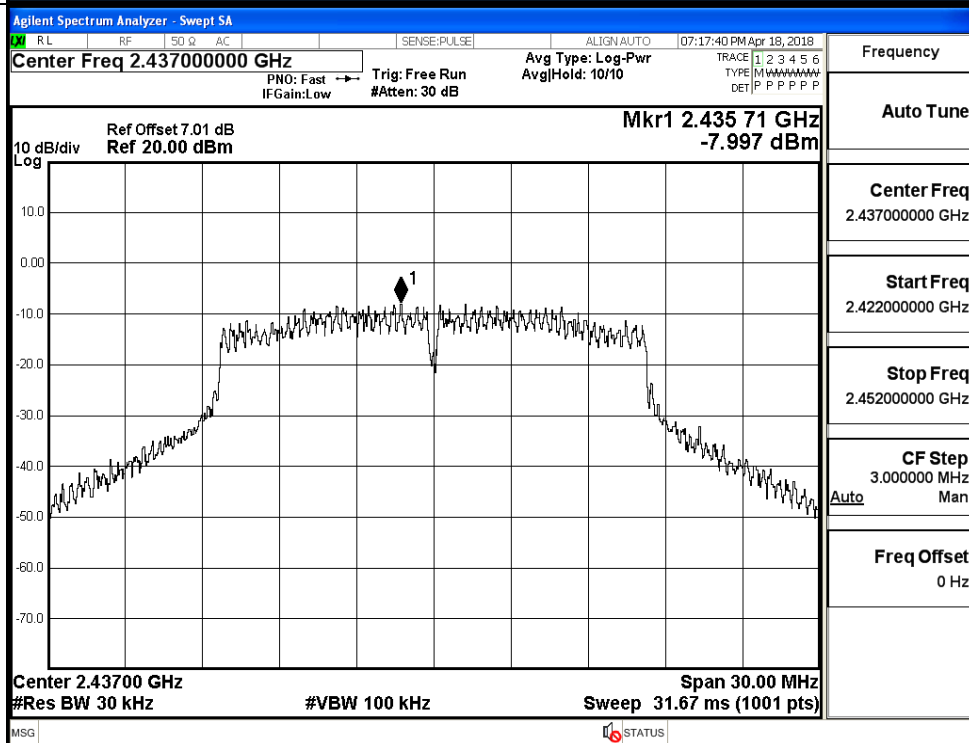
11B/HCH



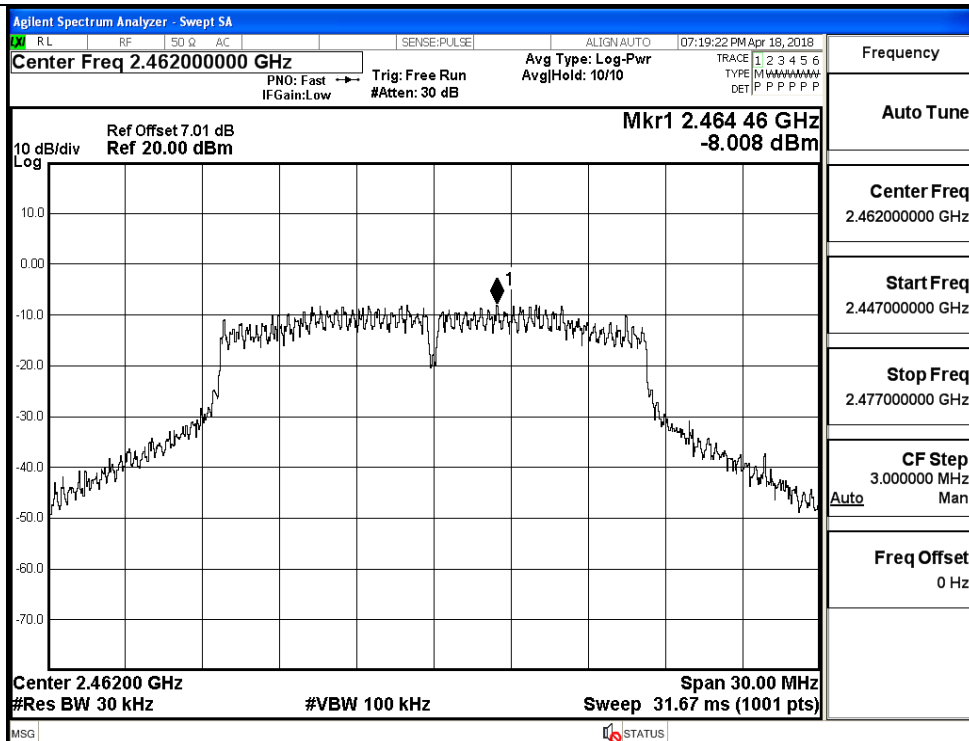
11G/LCH



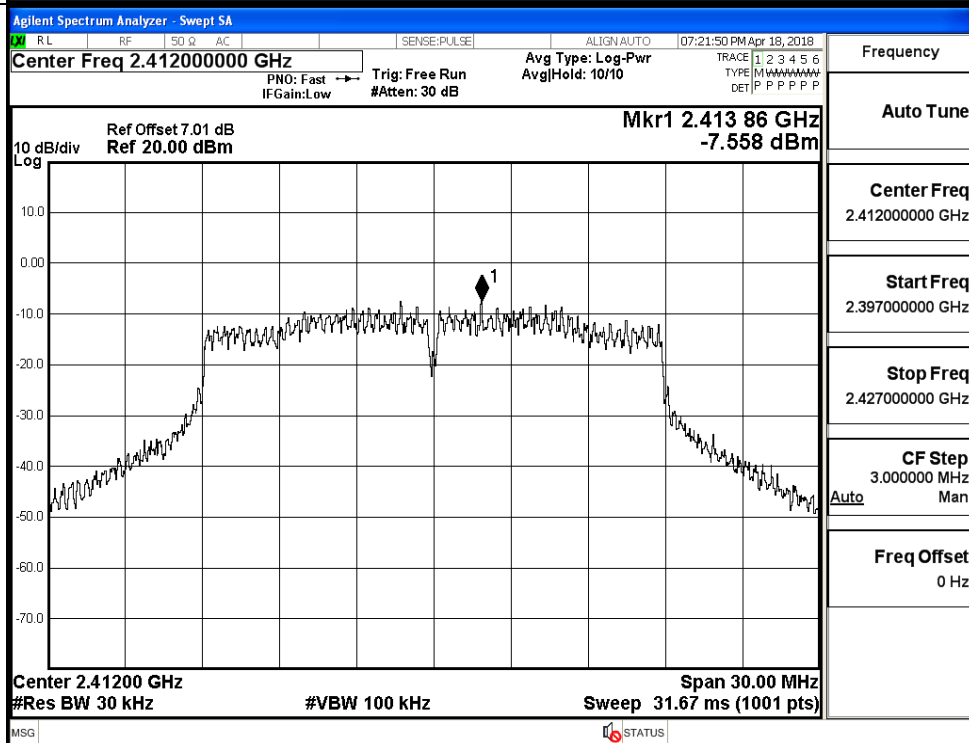
11G/MCH



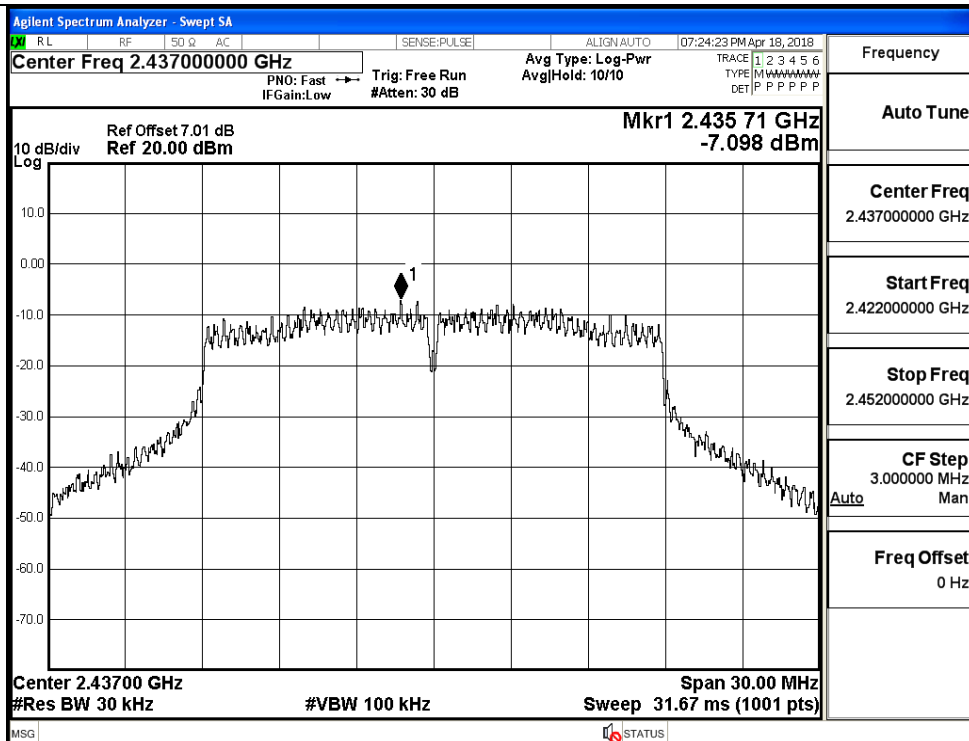
11G/HCH



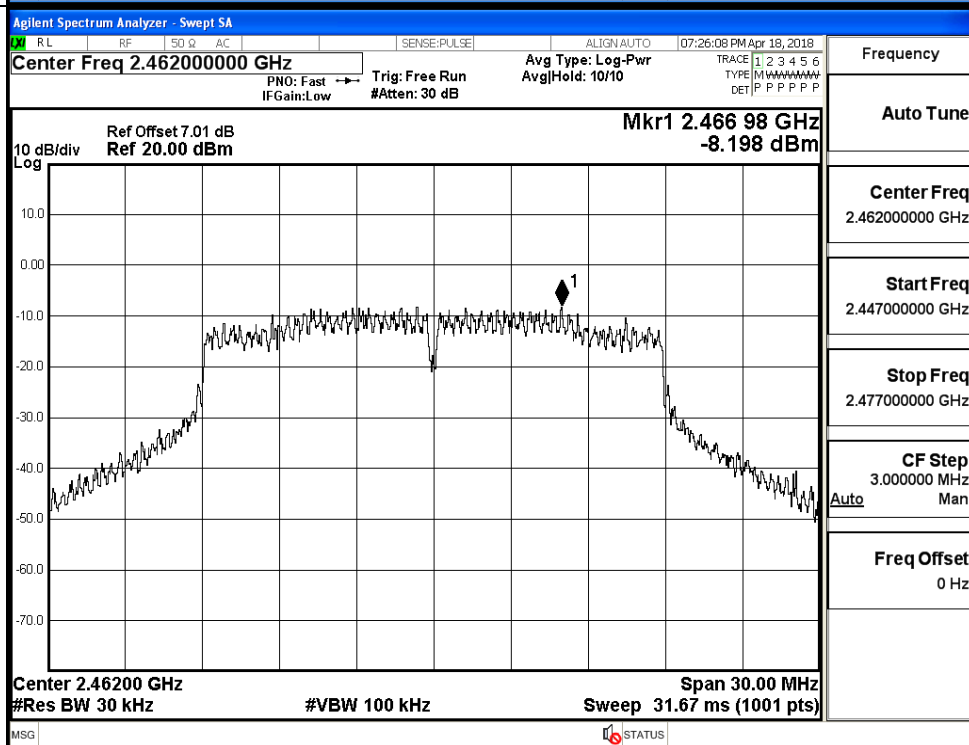
11N20SISO/LCH



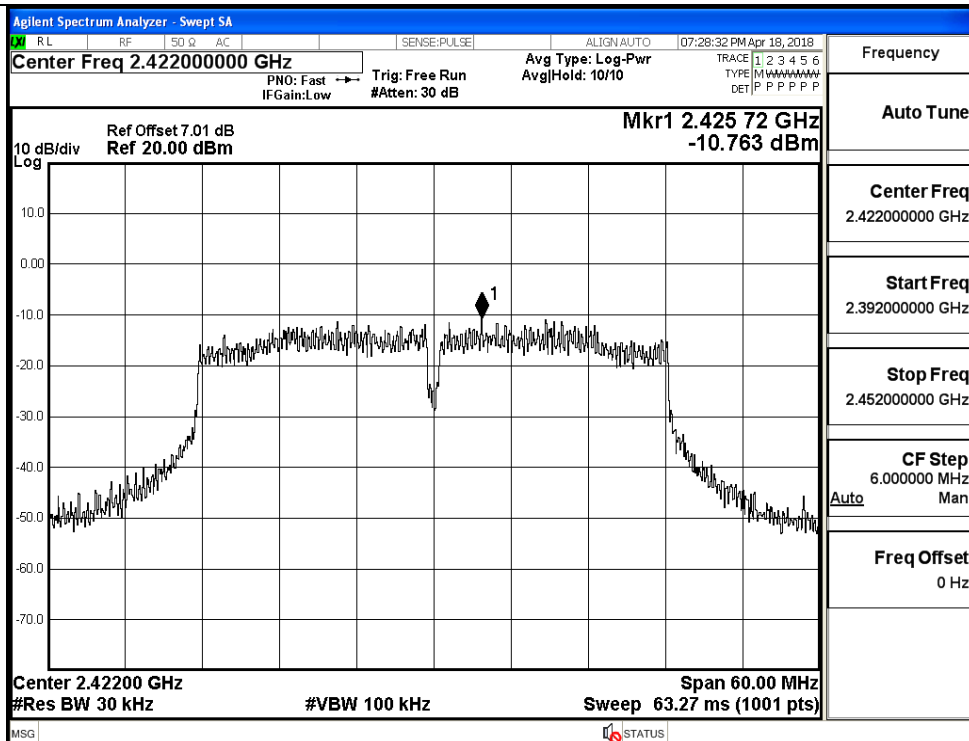
11N20SISO/MCH



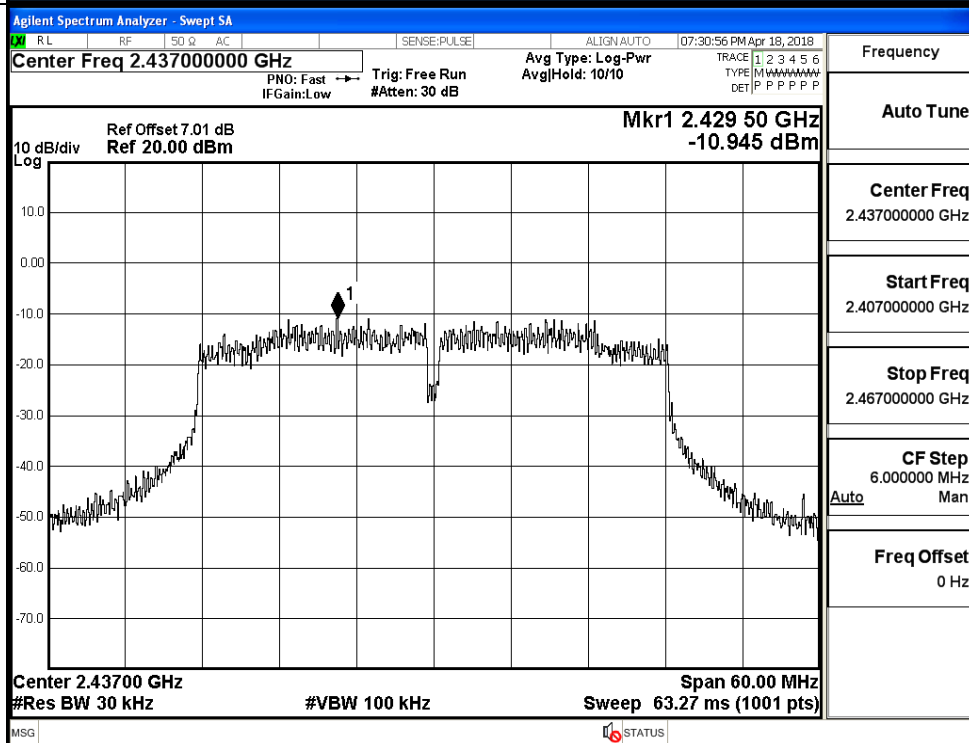
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/MCH



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 07:34:21 PM Apr 18, 2018

Center Freq 2.452000000 GHz PNO: Fast Trg: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
IF Gain: Low #Atten: 30 dB Avg Hold: 10/10 TYPE M W W W W W W W
DET P P P P P P P

Ref Offset 7.01 dB Mkr1 2.444 50 GHz
Ref 20.00 dBm -10.872 dBm

10 dB/div
Log

Center Freq 2.452000000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.482000000 GHz
CF Step 6.000000 MHz
Auto Man
Freq Offset 0 Hz

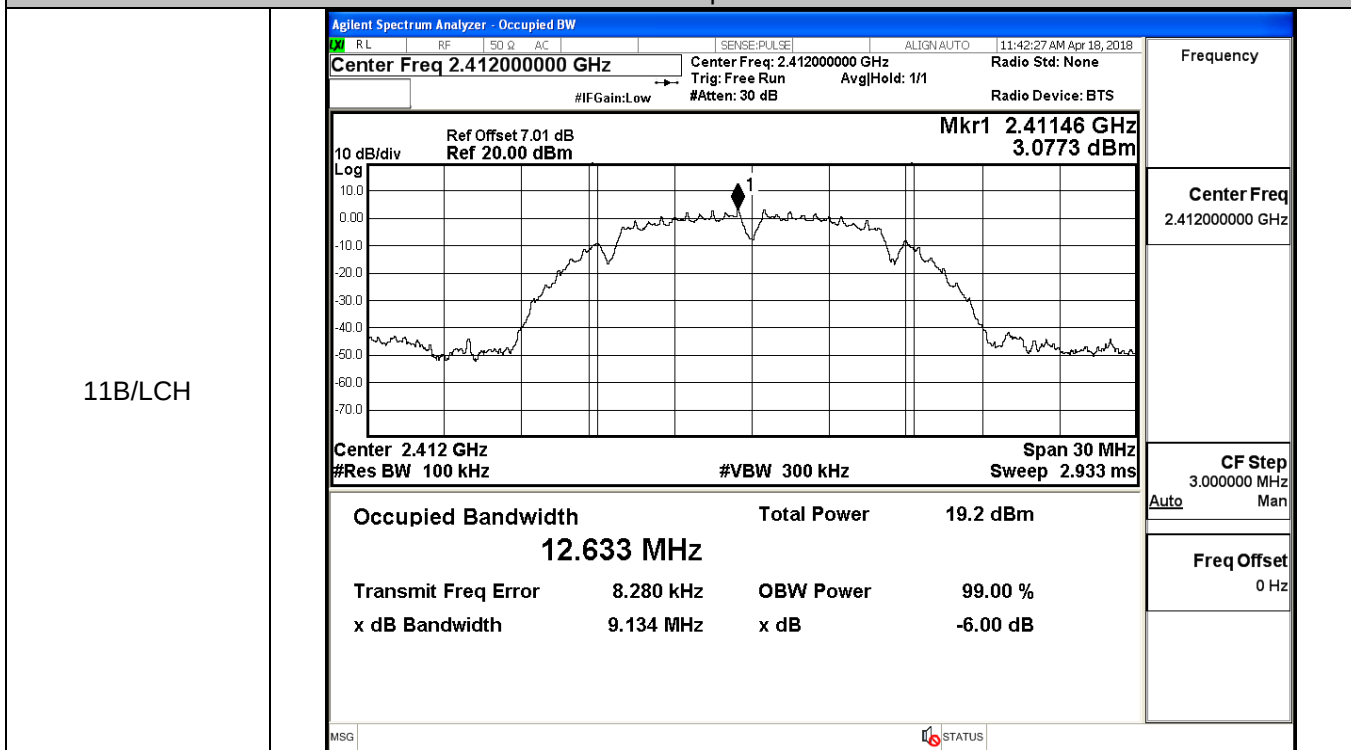
Center 2.45200 GHz Span 60.00 MHz
#Res BW 30 kHz #VBW 100 kHz Sweep 63.27 ms (1001 pts)

MSG STATUS

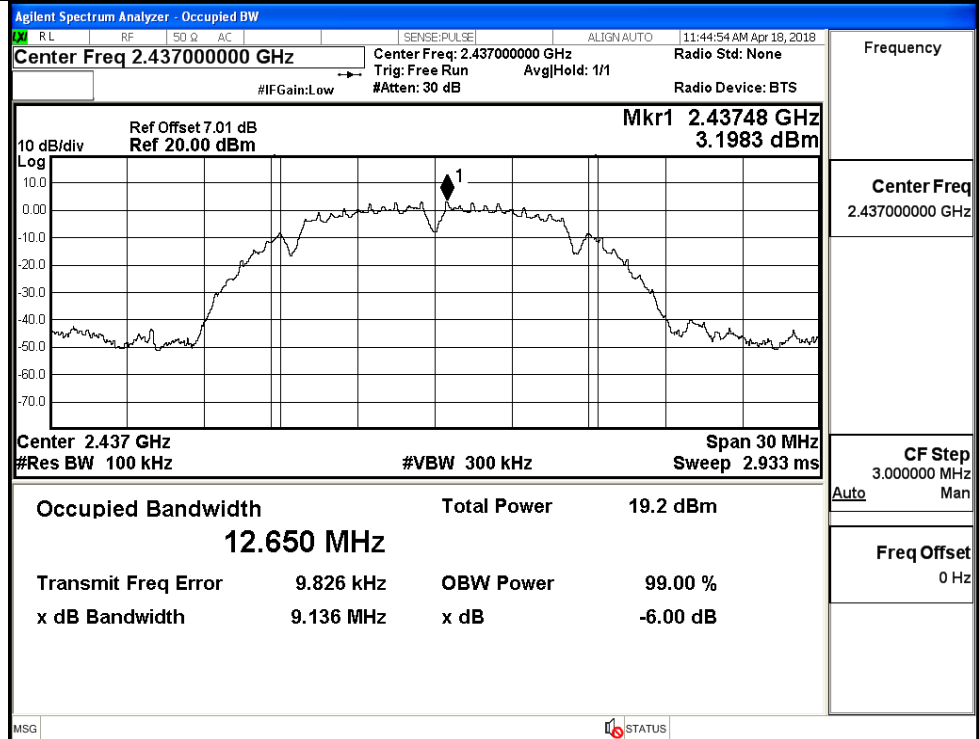
A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.134	≥ 0.5	PASS
	MCH	9.136	≥ 0.5	PASS
	HCH	9.149	≥ 0.5	PASS
11G	LCH	15.13	≥ 0.5	PASS
	MCH	15.16	≥ 0.5	PASS
	HCH	15.15	≥ 0.5	PASS
11N20SISO	LCH	13.87	≥ 0.5	PASS
	MCH	15.16	≥ 0.5	PASS
	HCH	15.15	≥ 0.5	PASS
11N40SISO	LCH	35.18	≥ 0.5	PASS
	MCH	35.16	≥ 0.5	PASS
	HCH	35.14	≥ 0.5	PASS

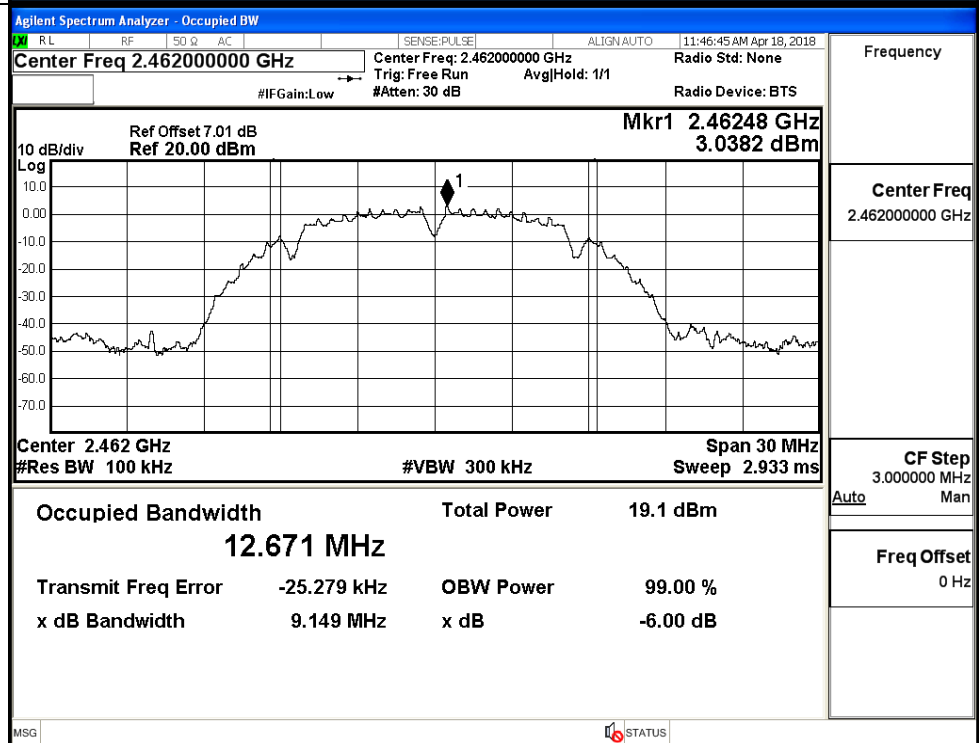
Test Graphs



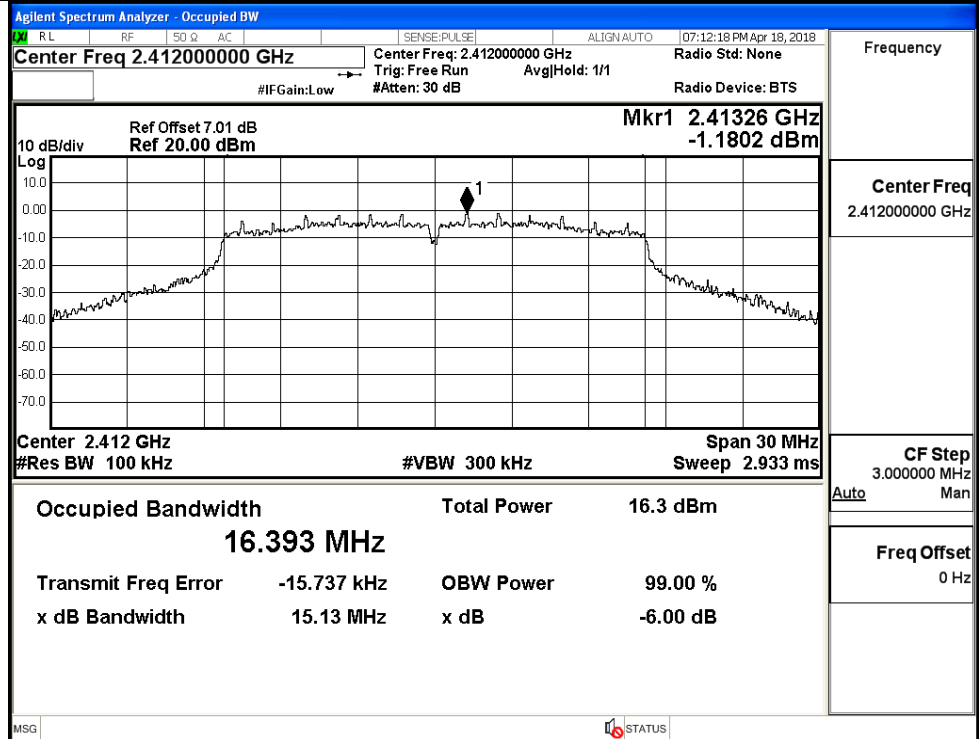
11B/MCH



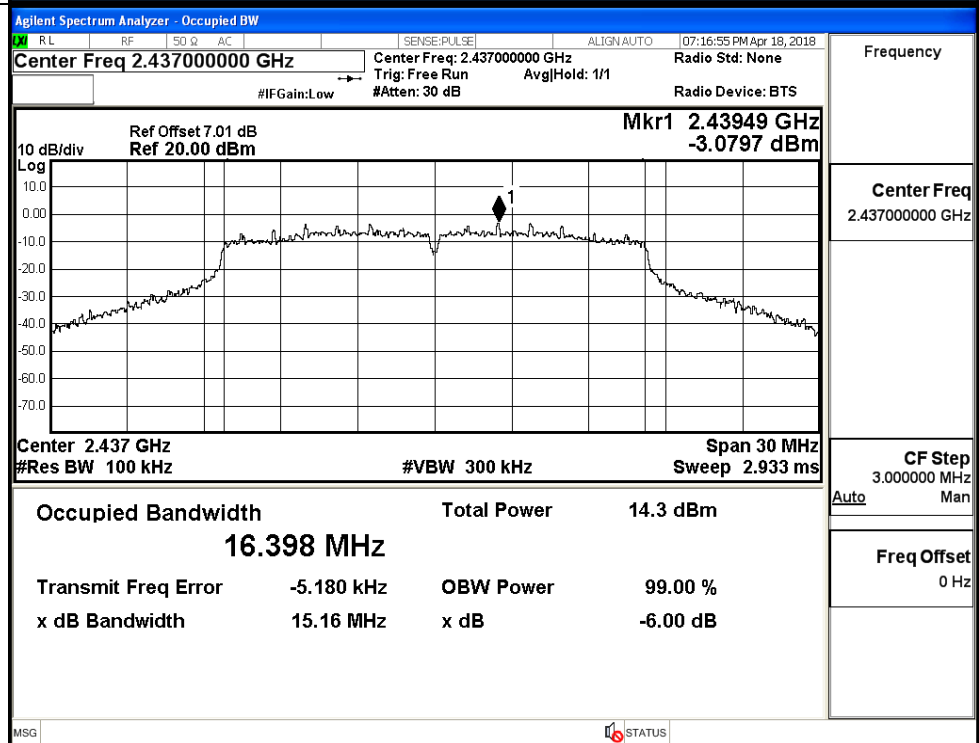
11B/HCH



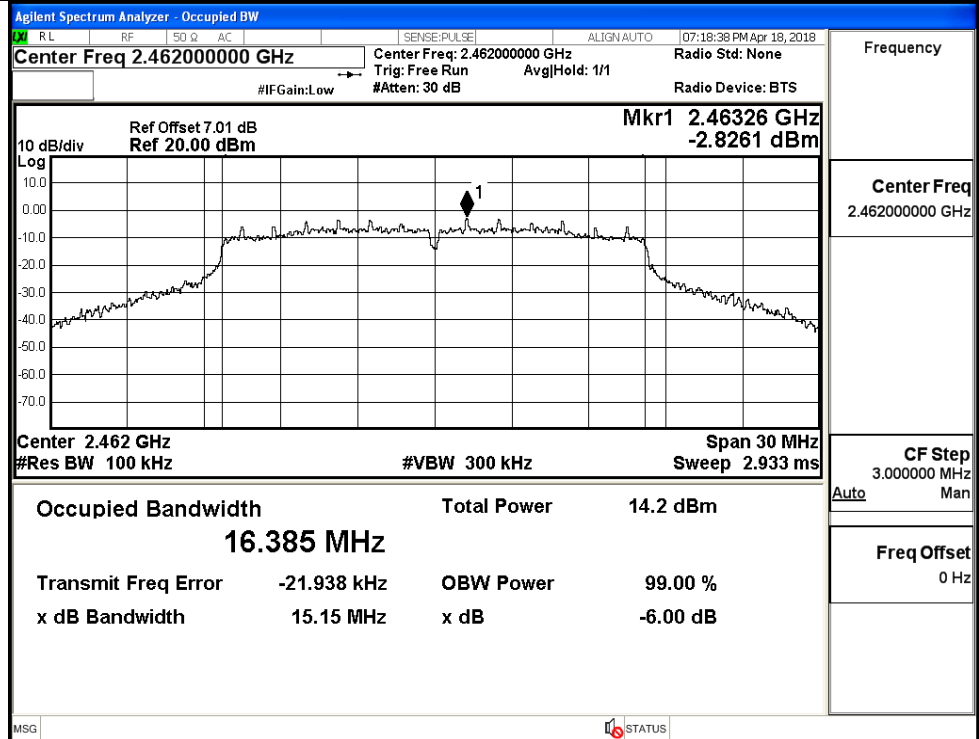
11G/LCH



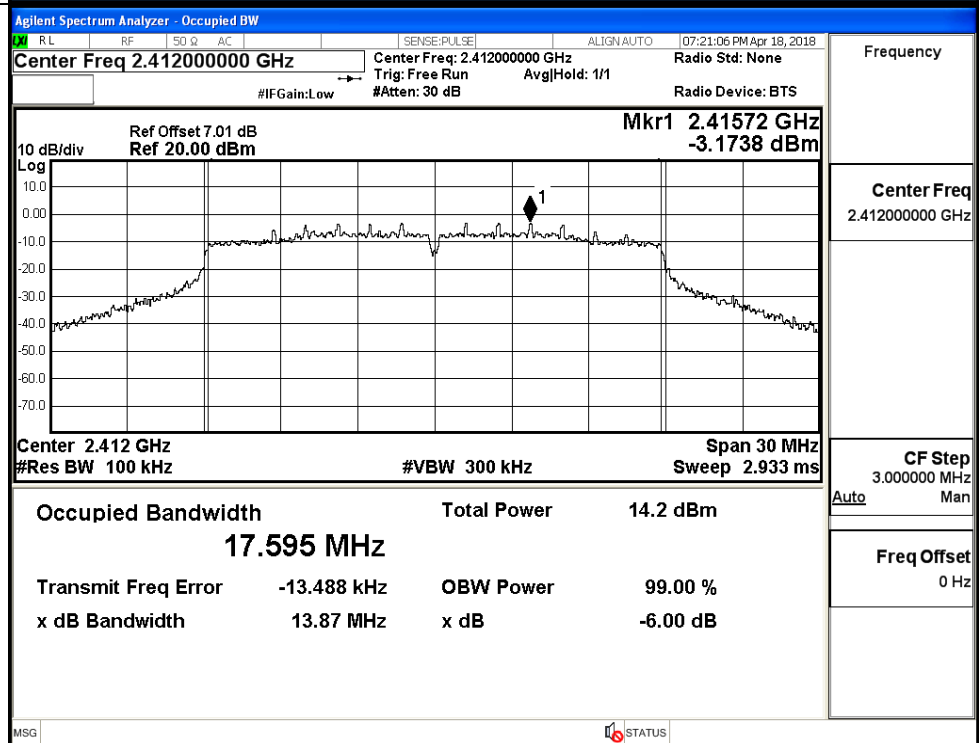
11G/MCH



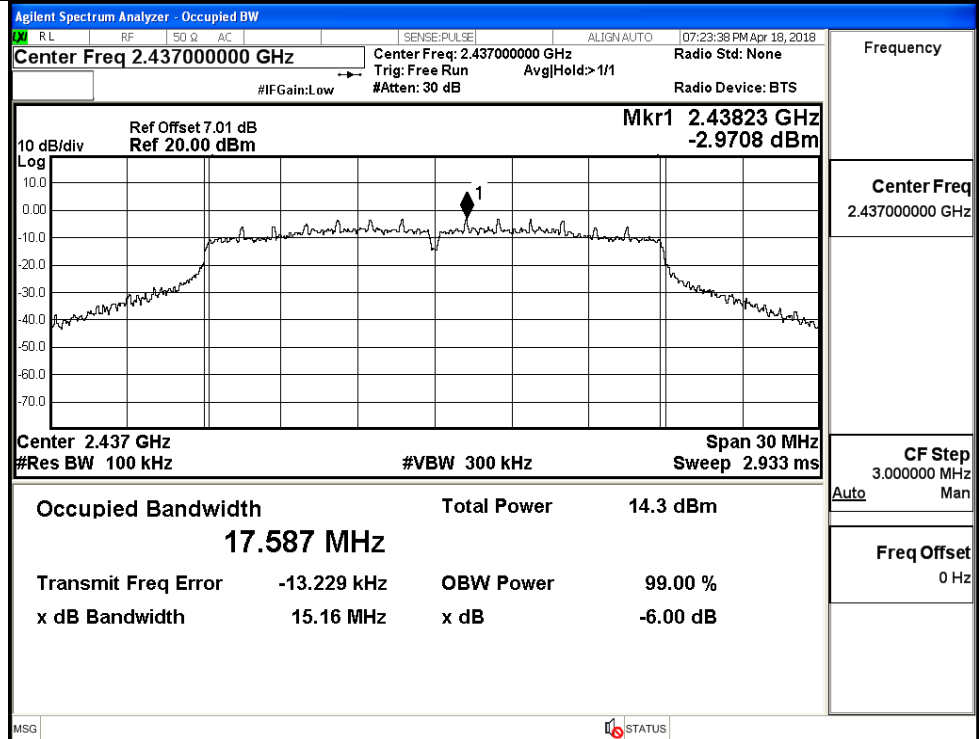
11G/HCH



11N20SISO/LCH



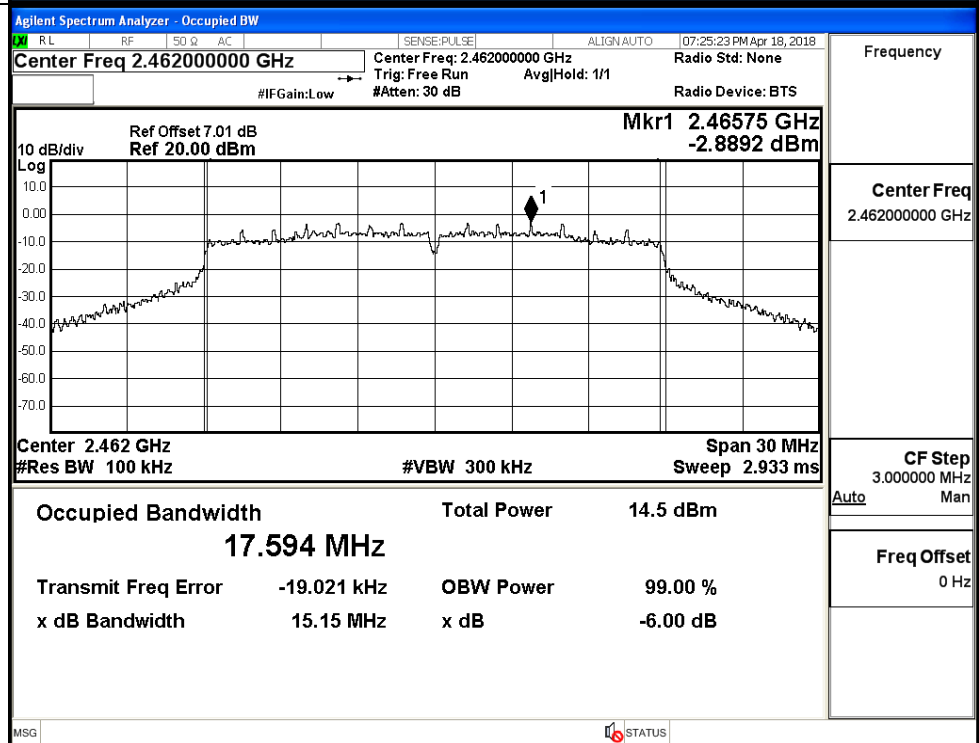
11N20SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

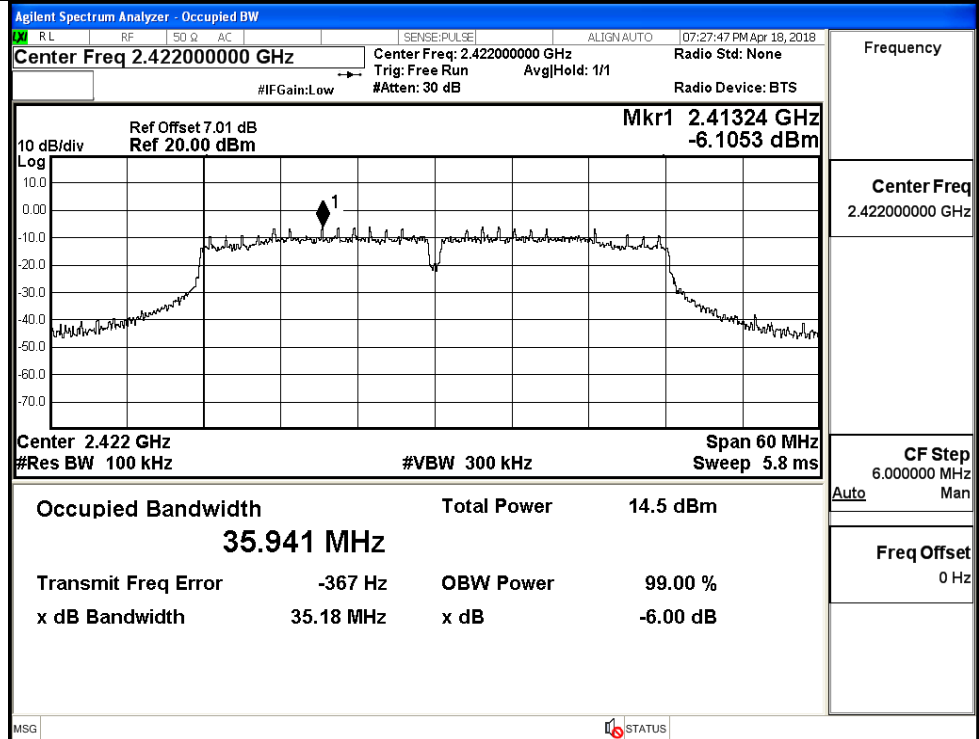
11N20SISO/HCH



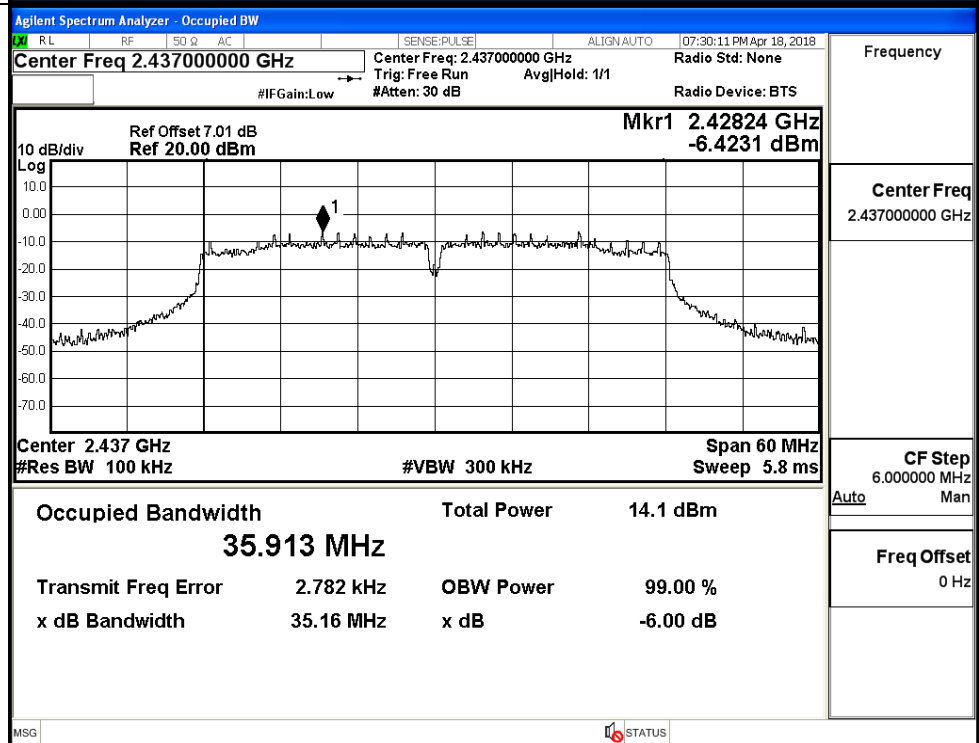
Frequency

Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

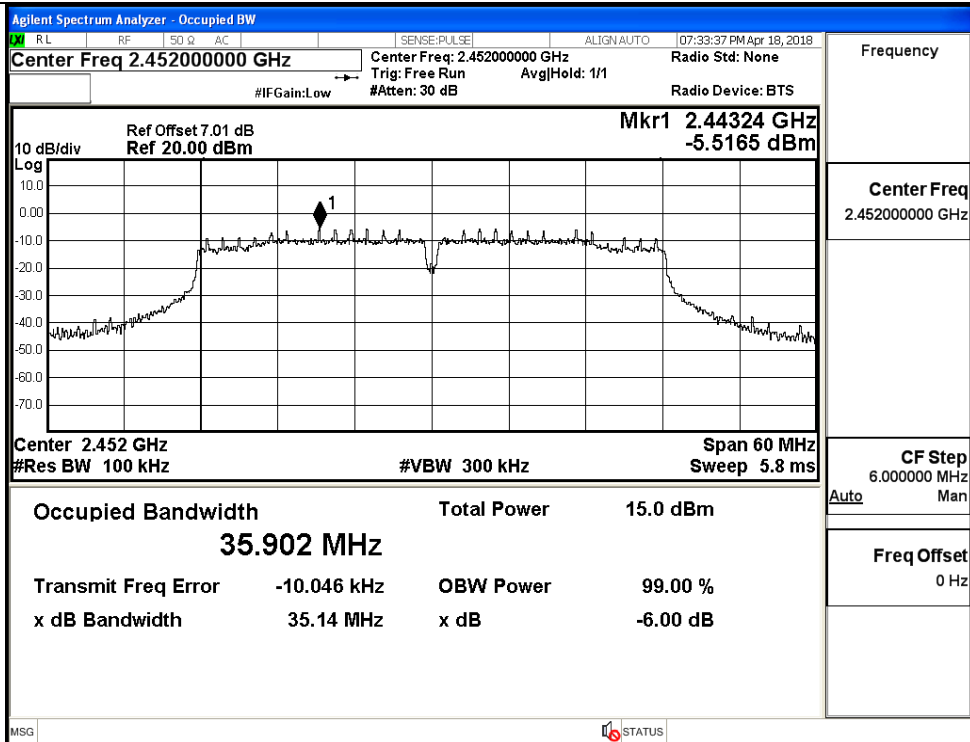
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

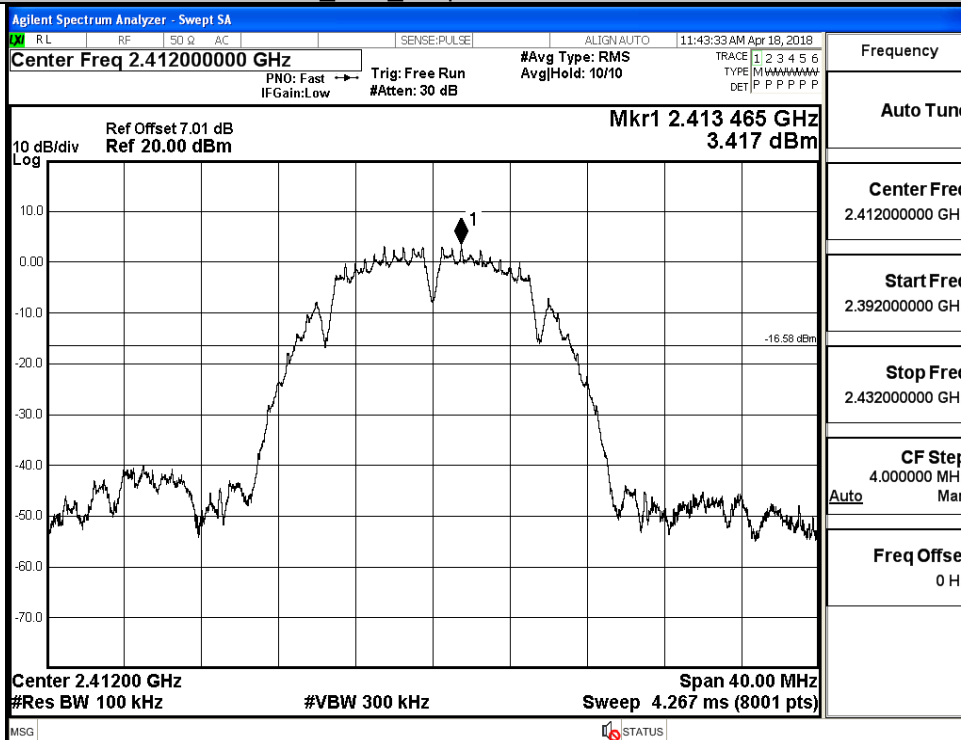


A.5 RF Conducted Spurious Emissions

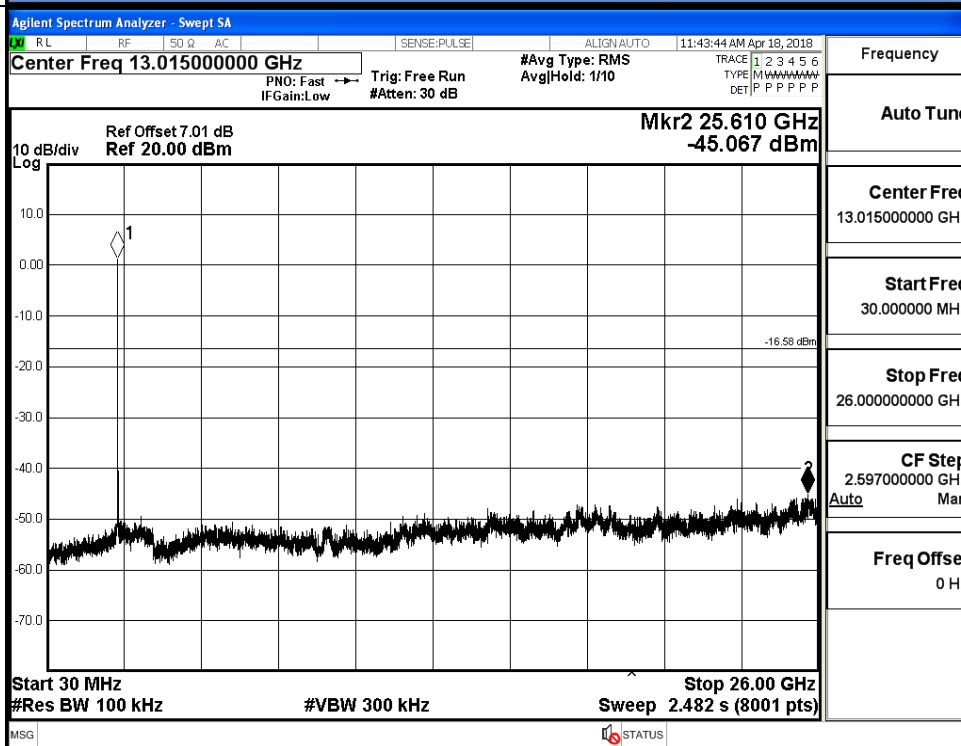
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.417	-45.067	-16.583	PASS
	MCH	3.245	-45.568	-16.755	PASS
	HCH	-0.282	-44.468	-20.282	PASS
11G	LCH	-1.345	-45.084	-21.345	PASS
	MCH	-2.376	-45.023	-22.376	PASS
	HCH	-1.884	-43.763	-21.884	PASS
11N20 SISO	LCH	-2.596	-43.957	-22.596	PASS
	MCH	-2.139	-45.095	-22.139	PASS
	HCH	-2.871	-44.799	-22.871	PASS
11N40 SISO	LCH	-5.624	-45.064	-25.624	PASS
	MCH	-5.534	-44.359	-25.534	PASS
	HCH	-5.587	-44.030	-25.587	PASS

11B LCH Graphs

Pref/11B/LCH

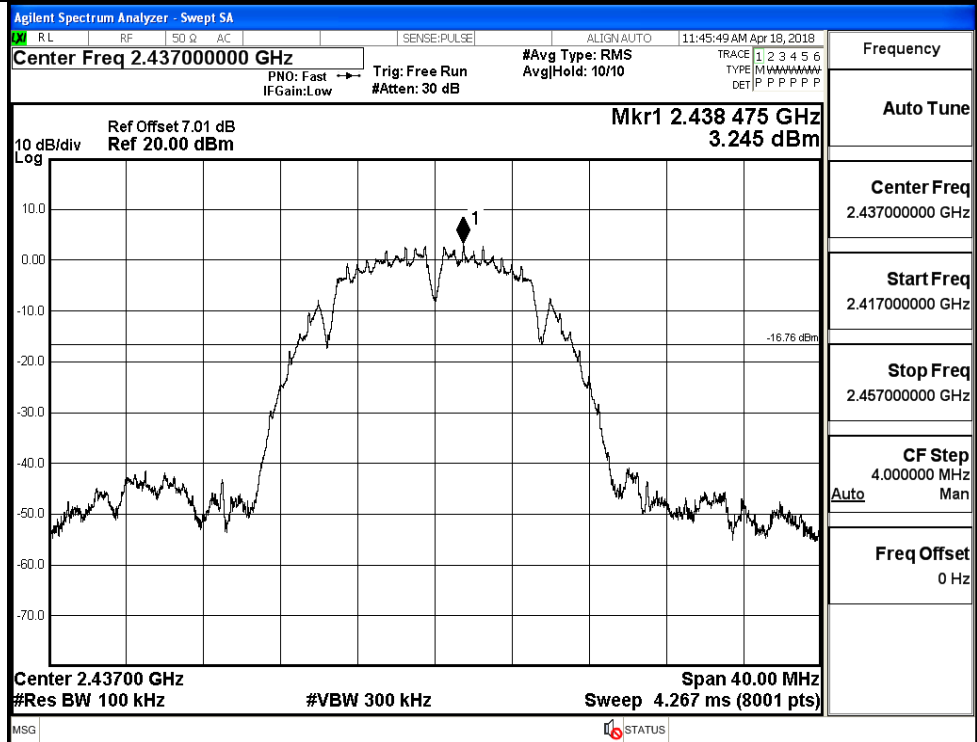


Puw/11B/LCH

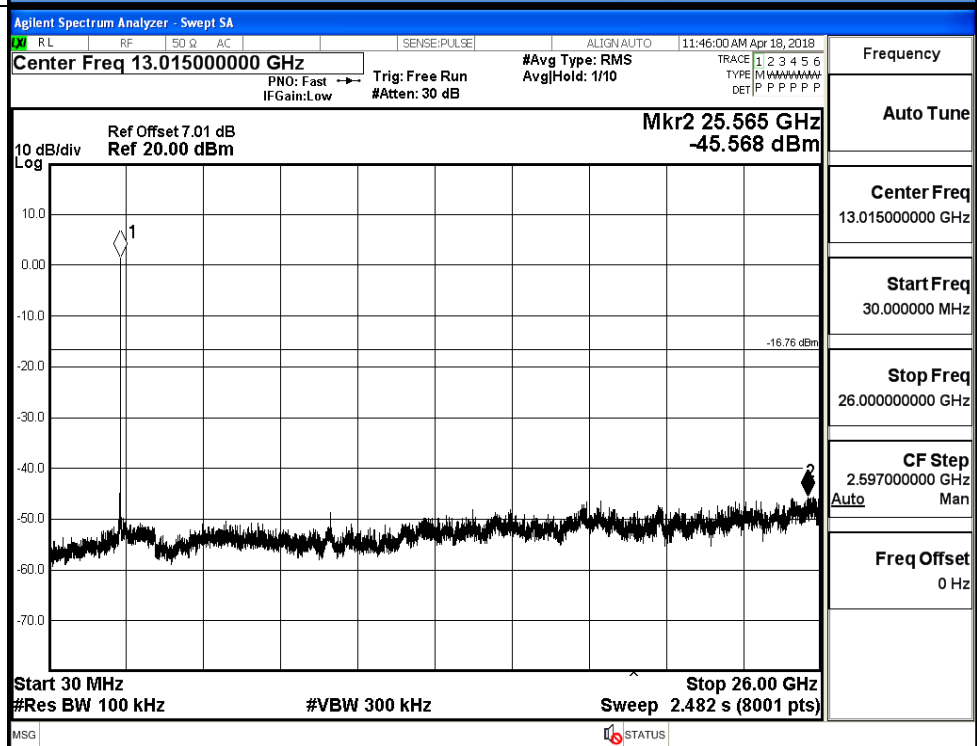


11B MCH Graphs

Pref/11B/MCH

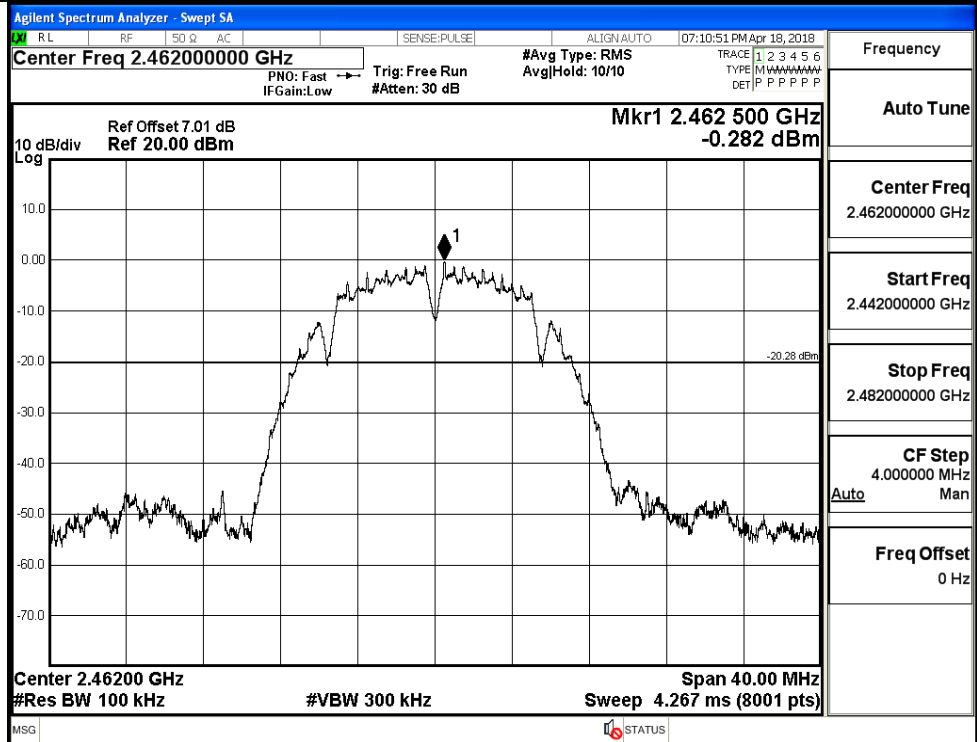


Puw/11B/MCH

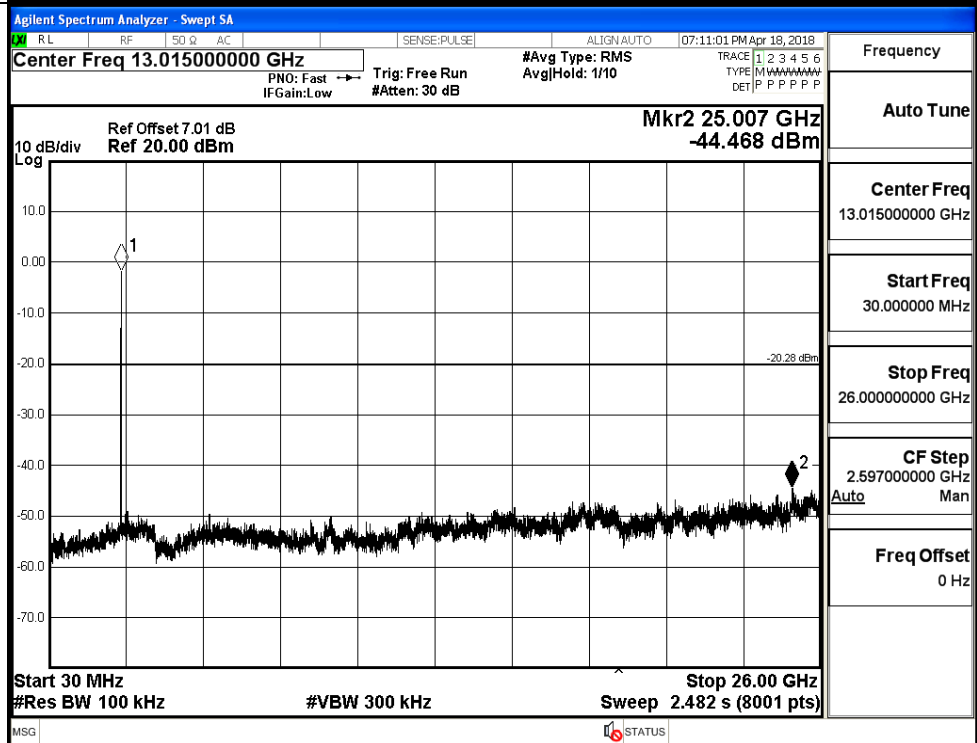


11B HCH Graphs

Pref/11B/HCH

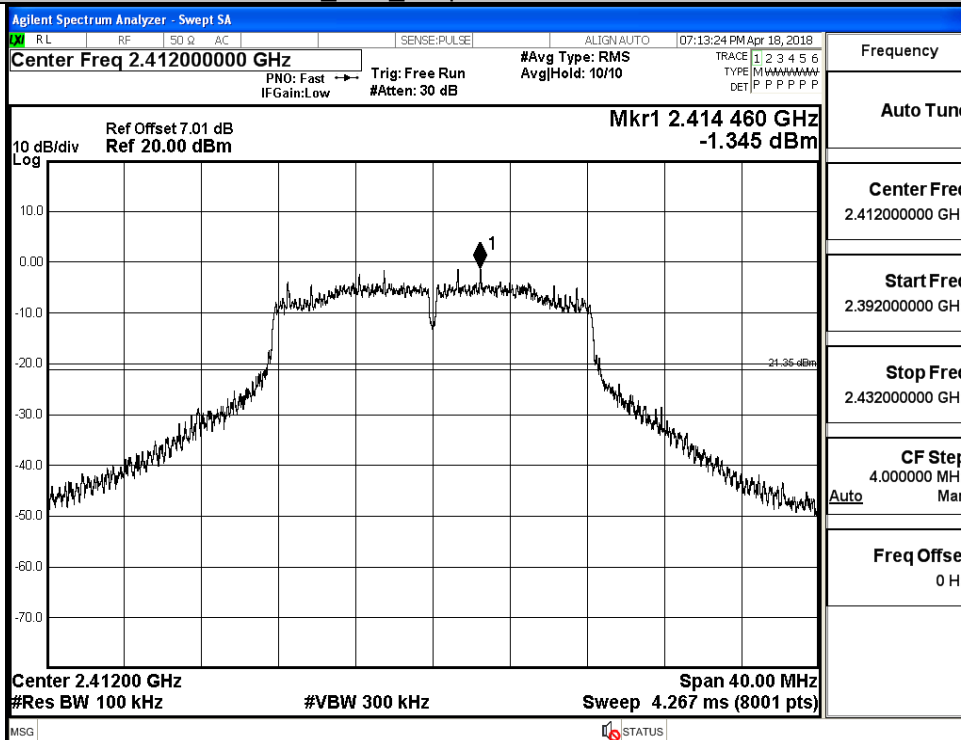


Puw/11B/HCH

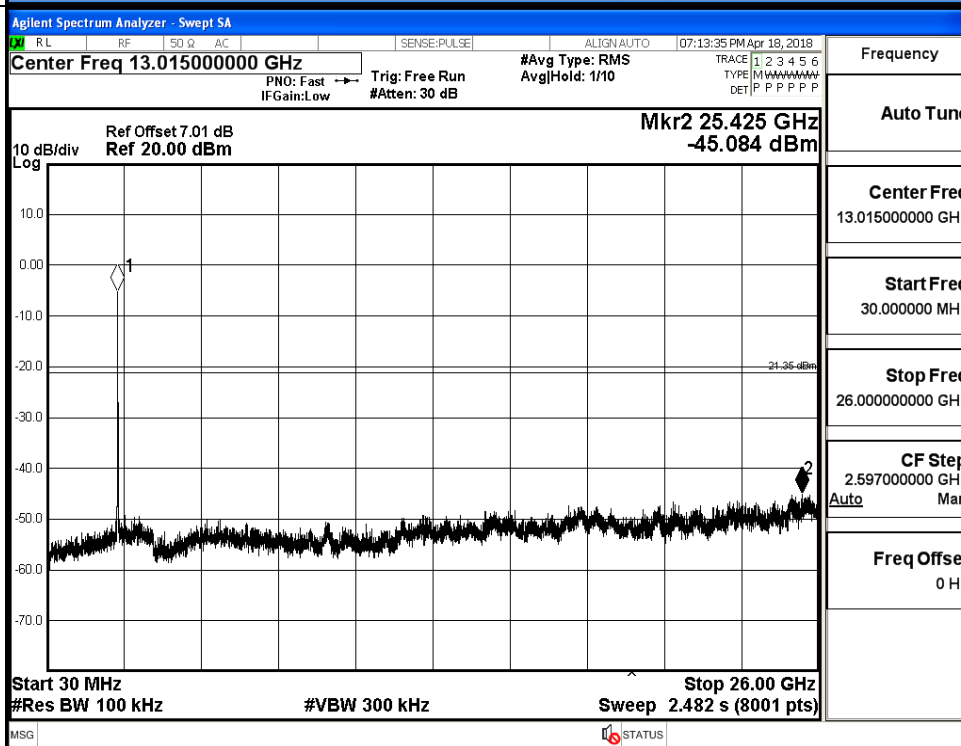


11G_LCH_Graphs

Pref/11G/LCH

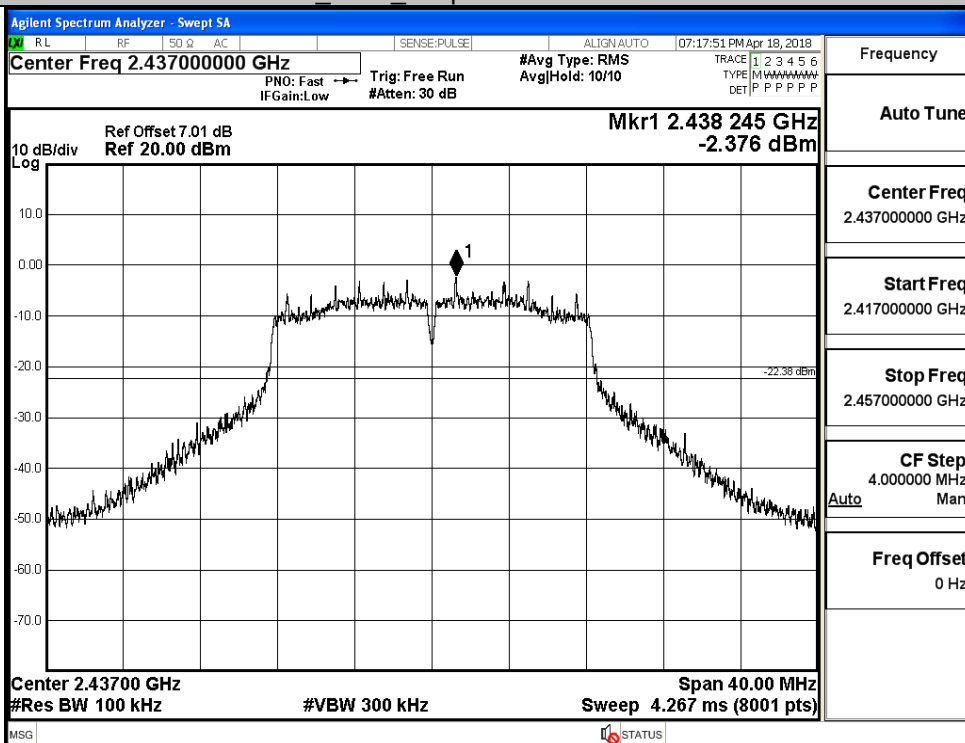


Puw/11G/LCH

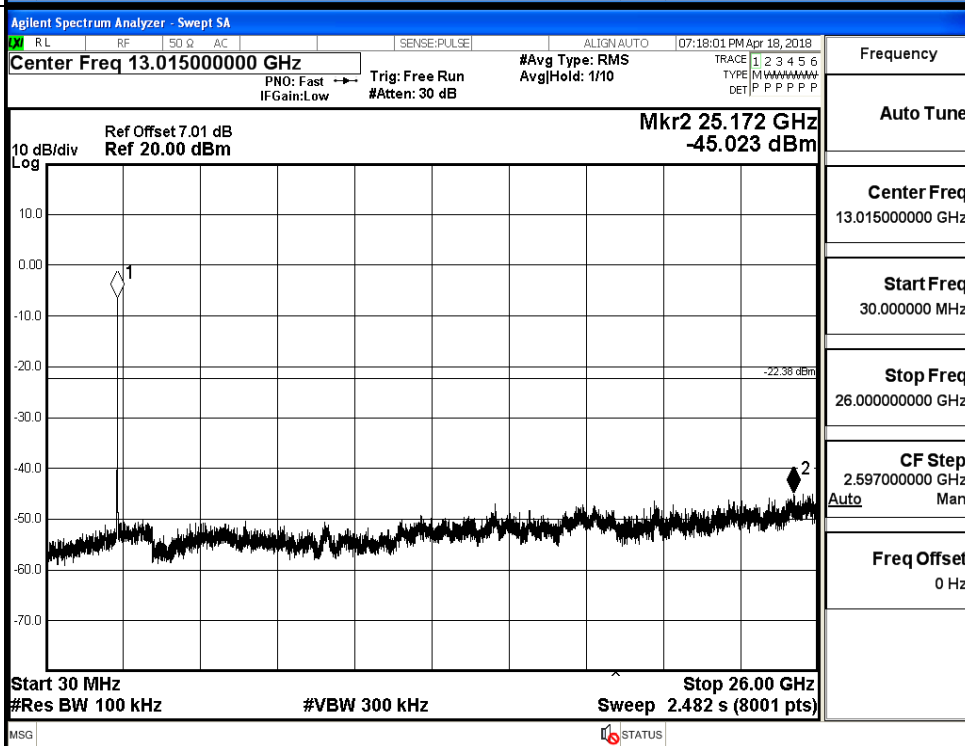


11G MCH Graphs

Pref/11G/MCH

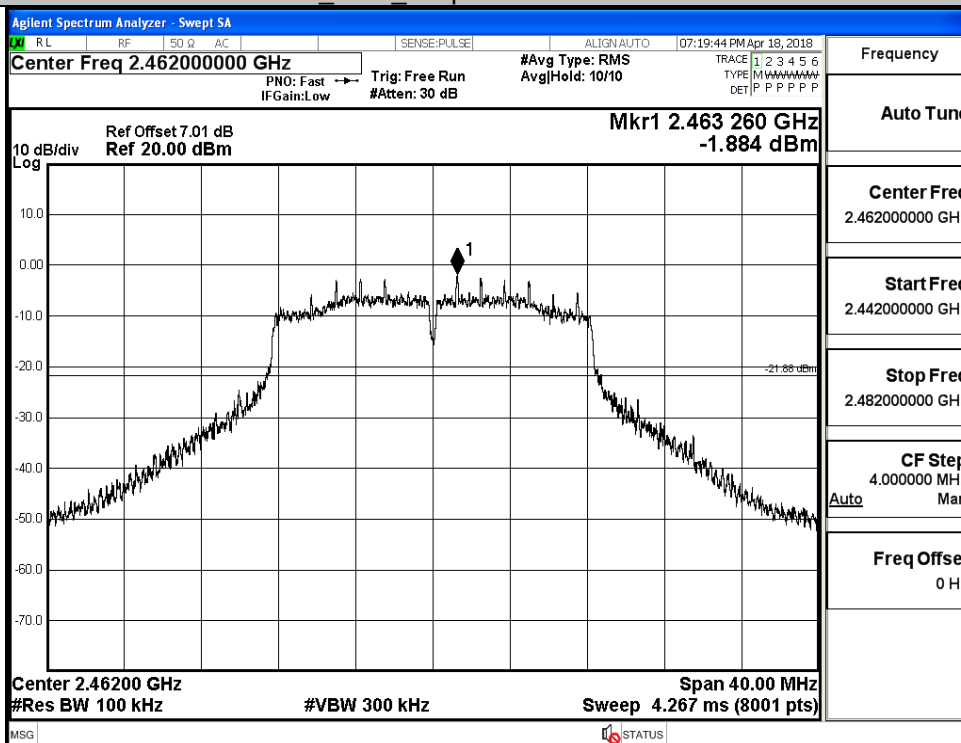


Puw/11G/MCH

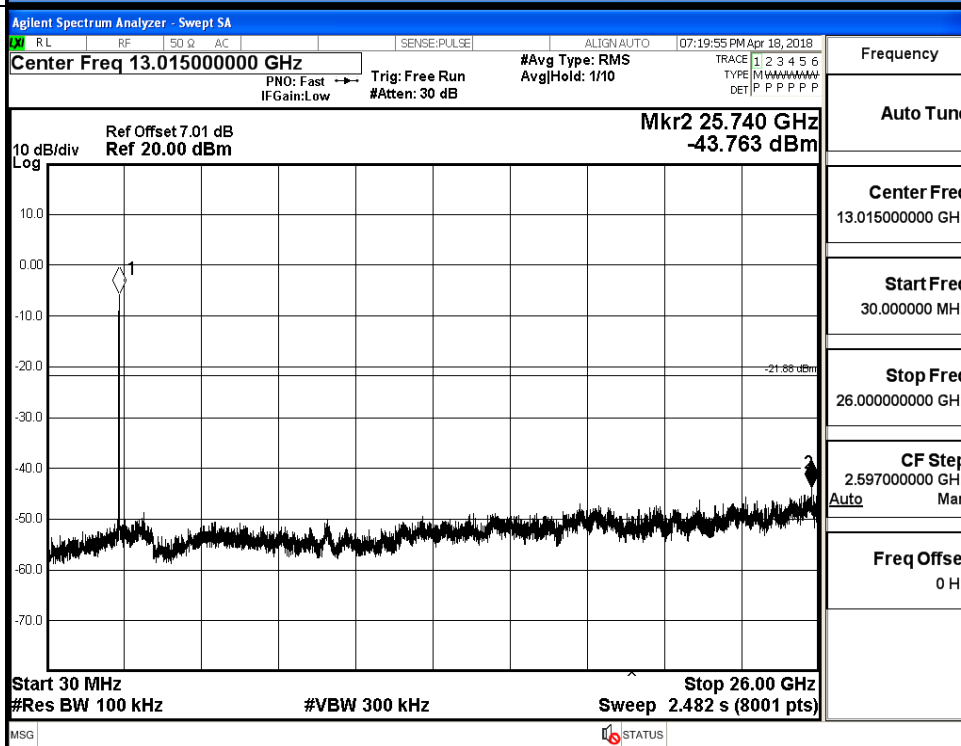


11G HCH Graphs

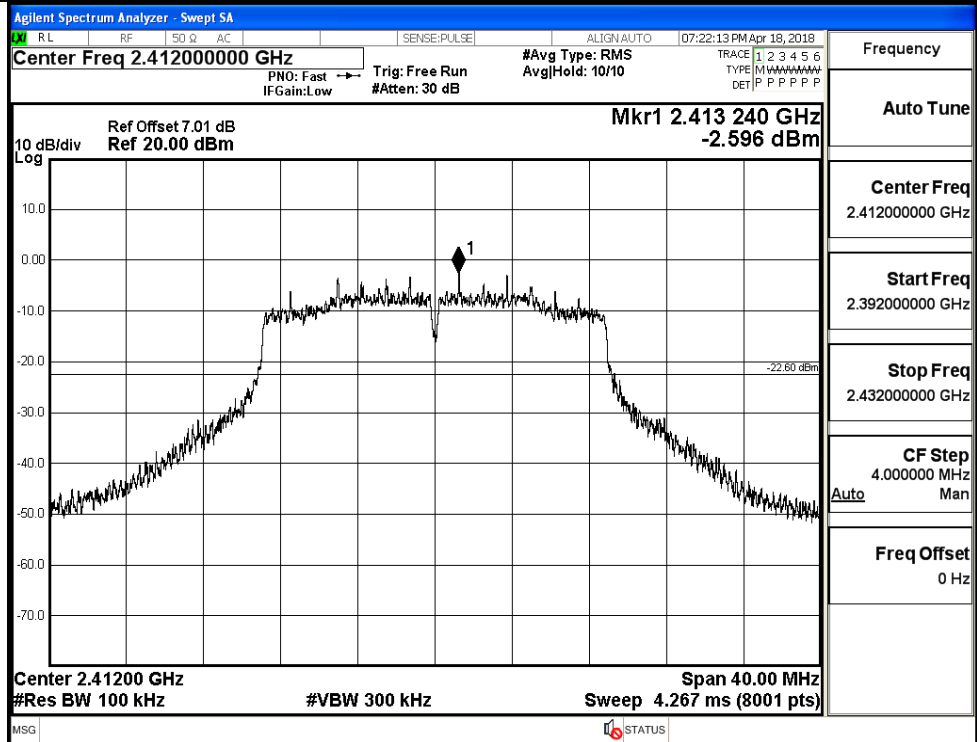
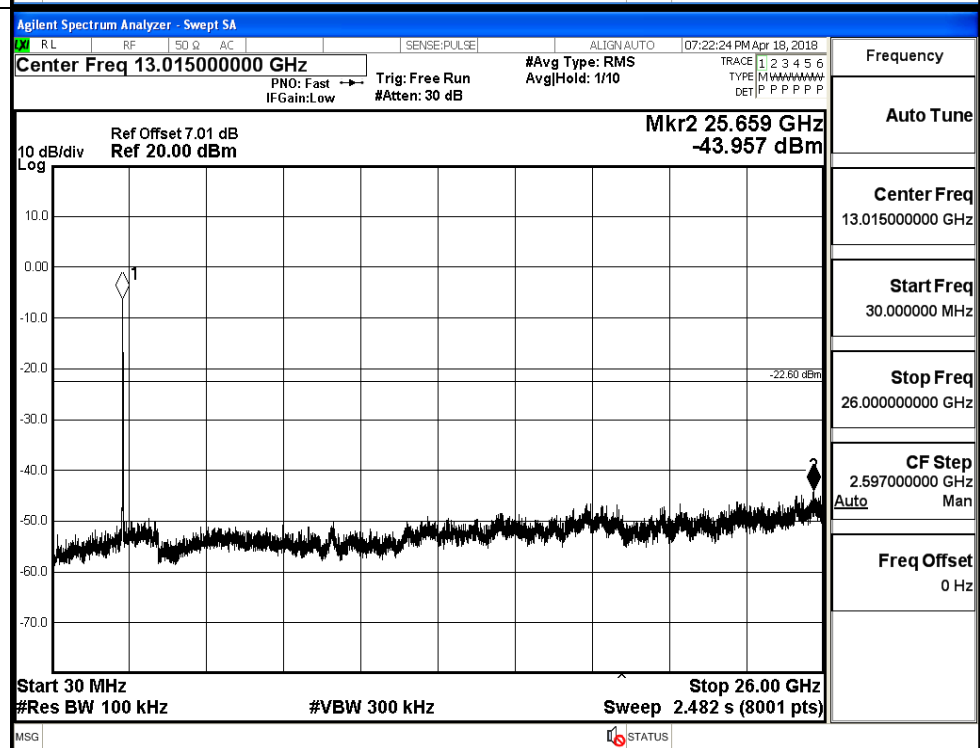
Pref/11G/HCH



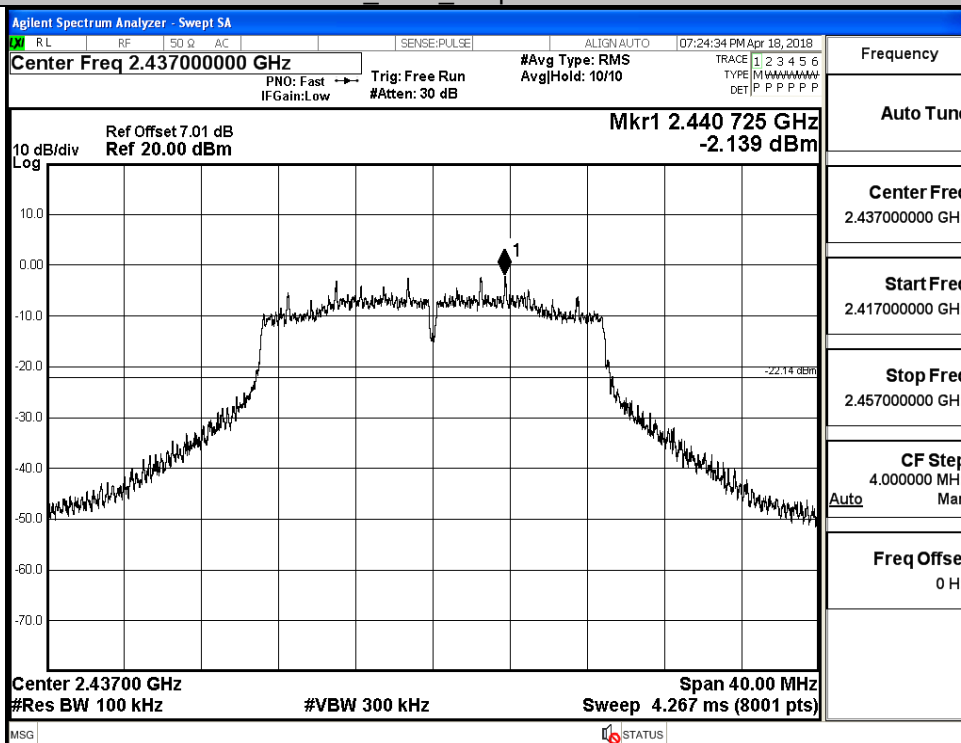
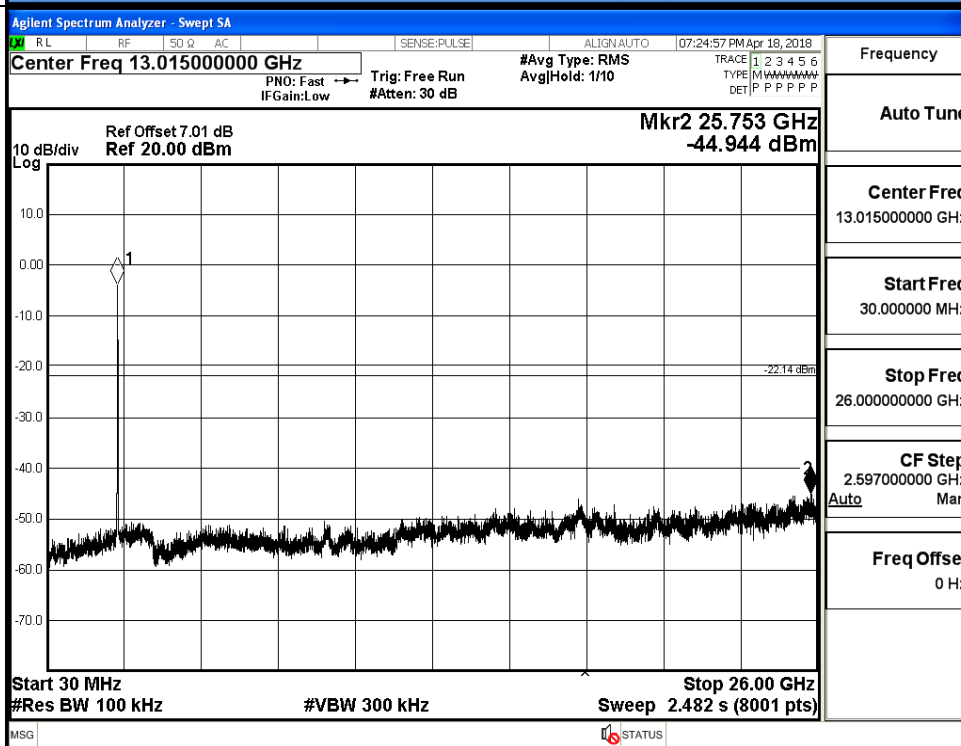
Puw/11G/HCH



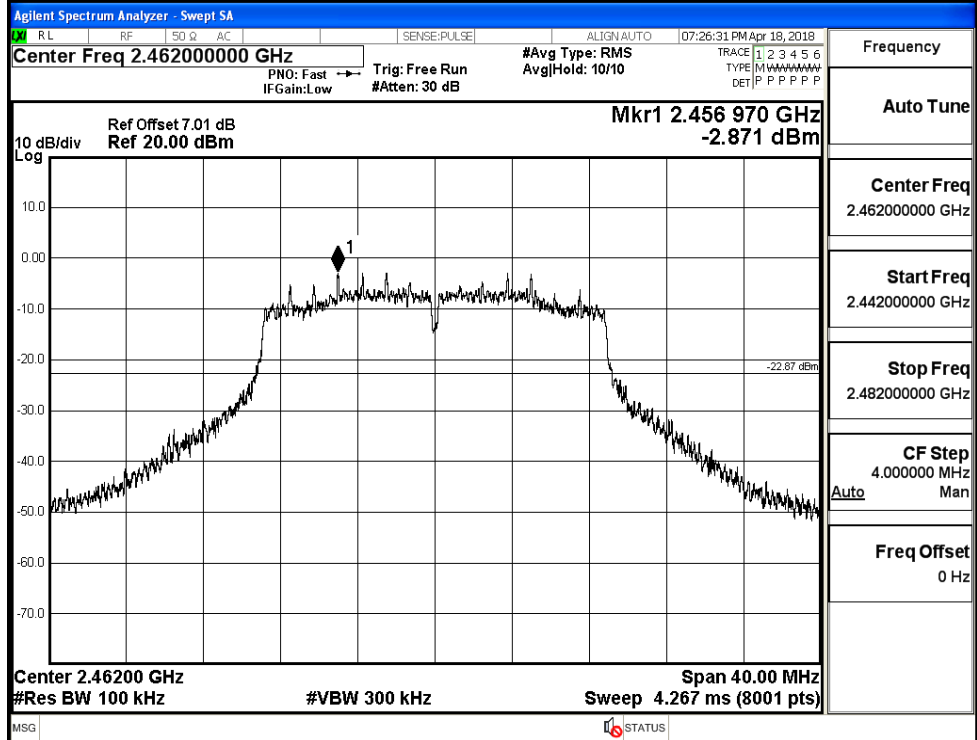
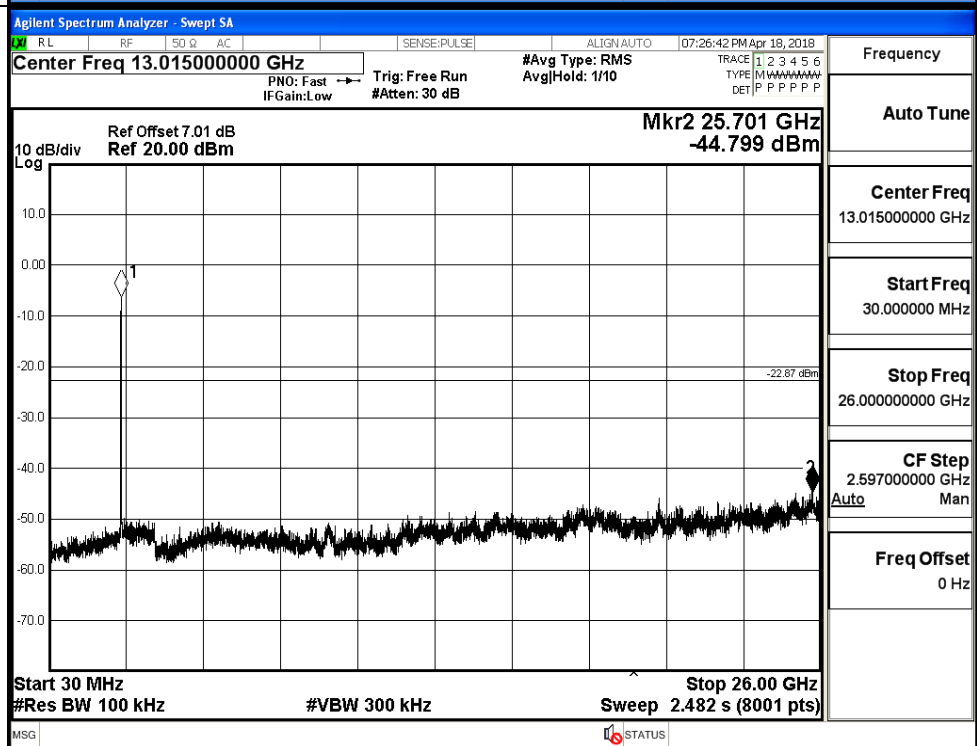
11N20SISO LCH Graphs

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

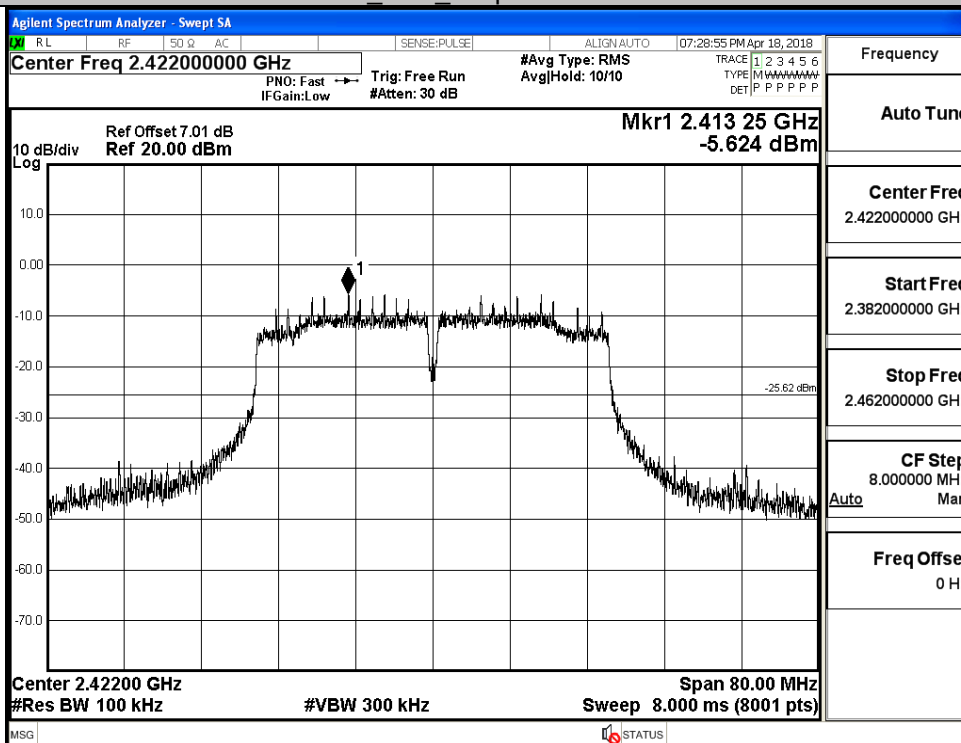
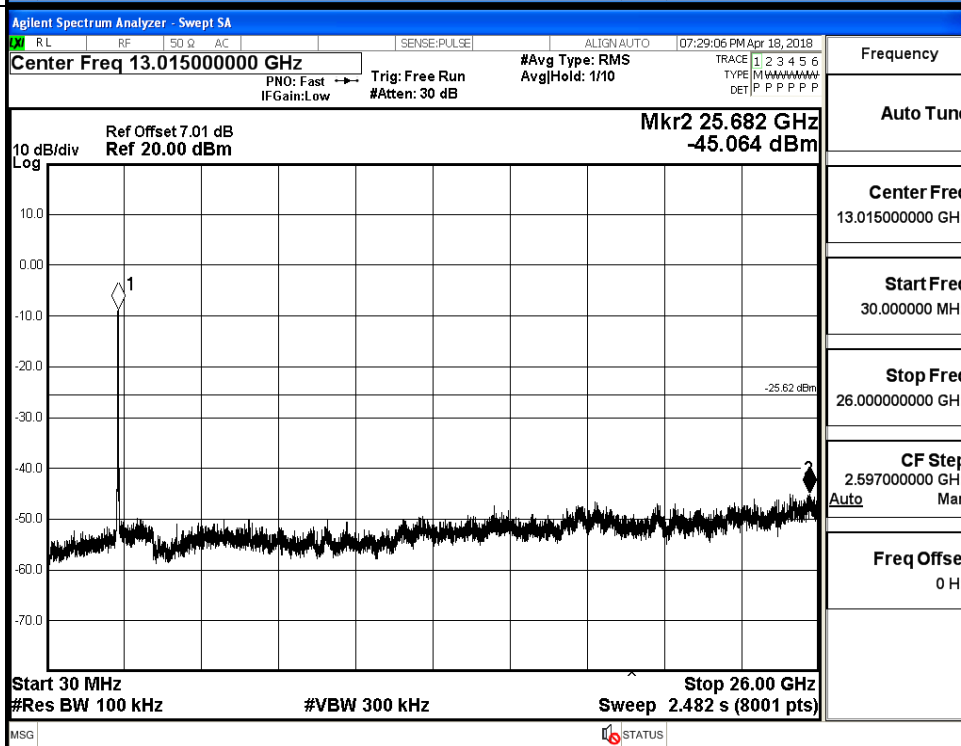
11N20SISO MCH Graphs

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

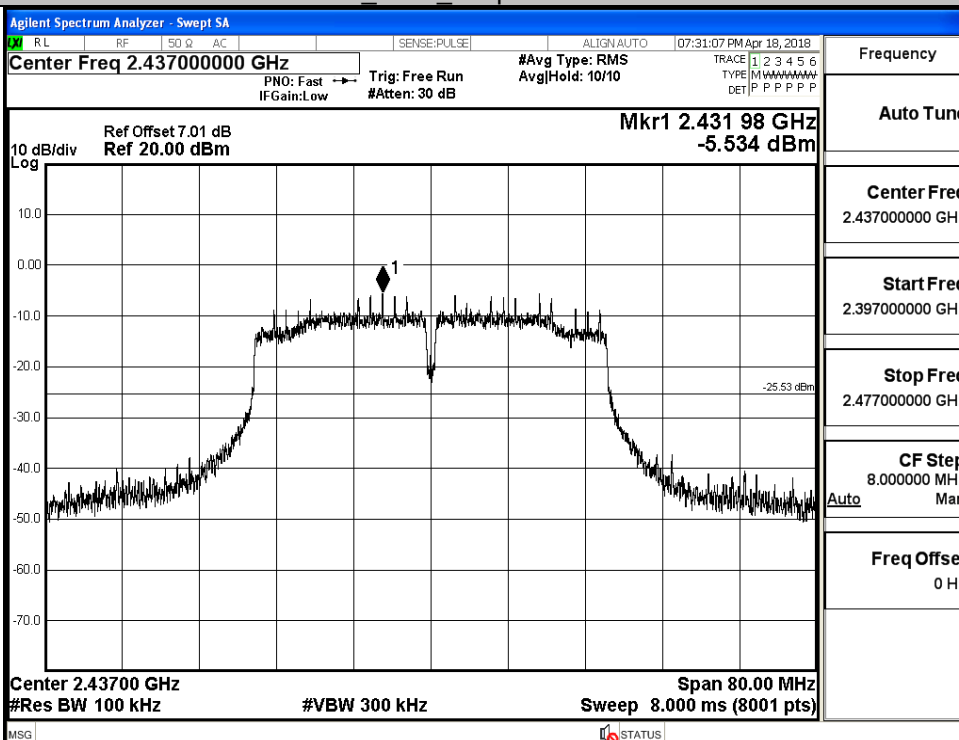
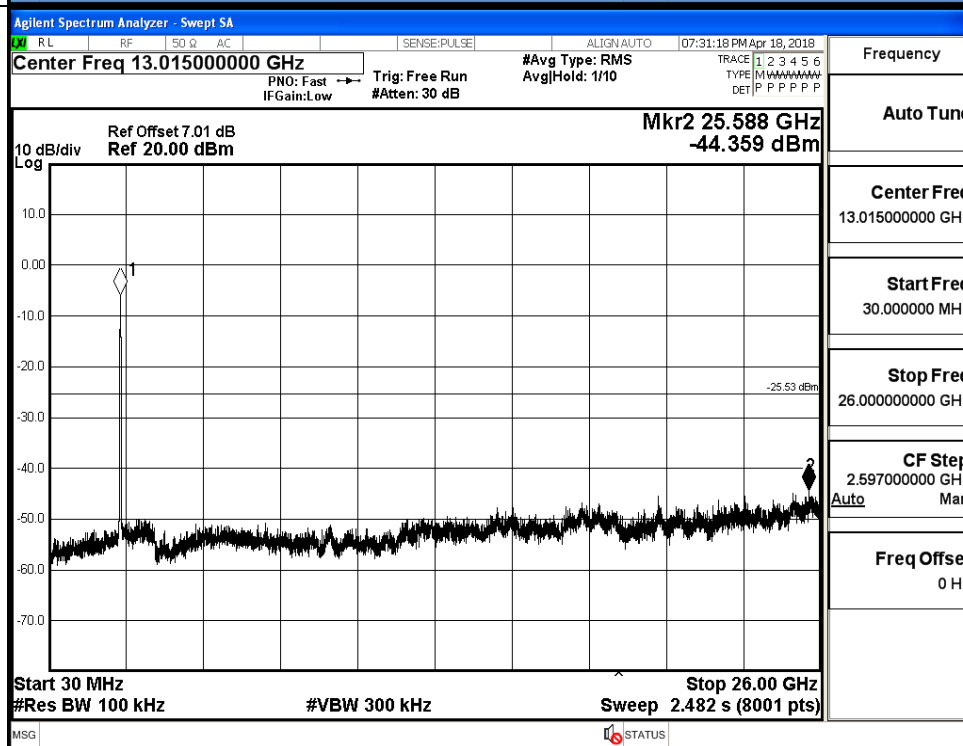
11N20SISO HCH Graphs

Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

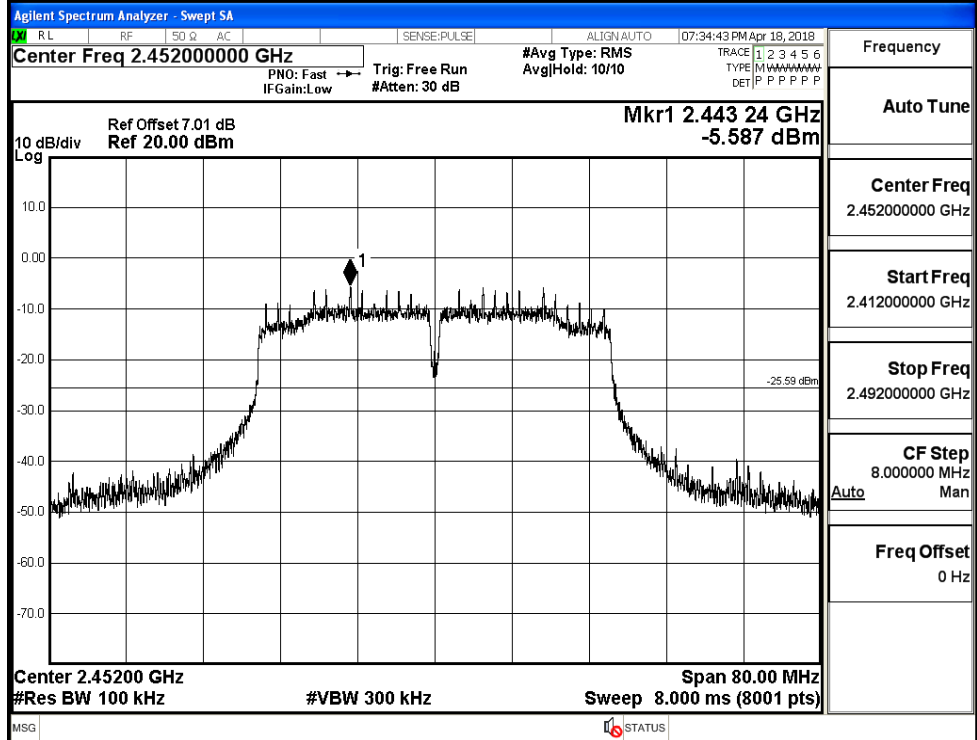
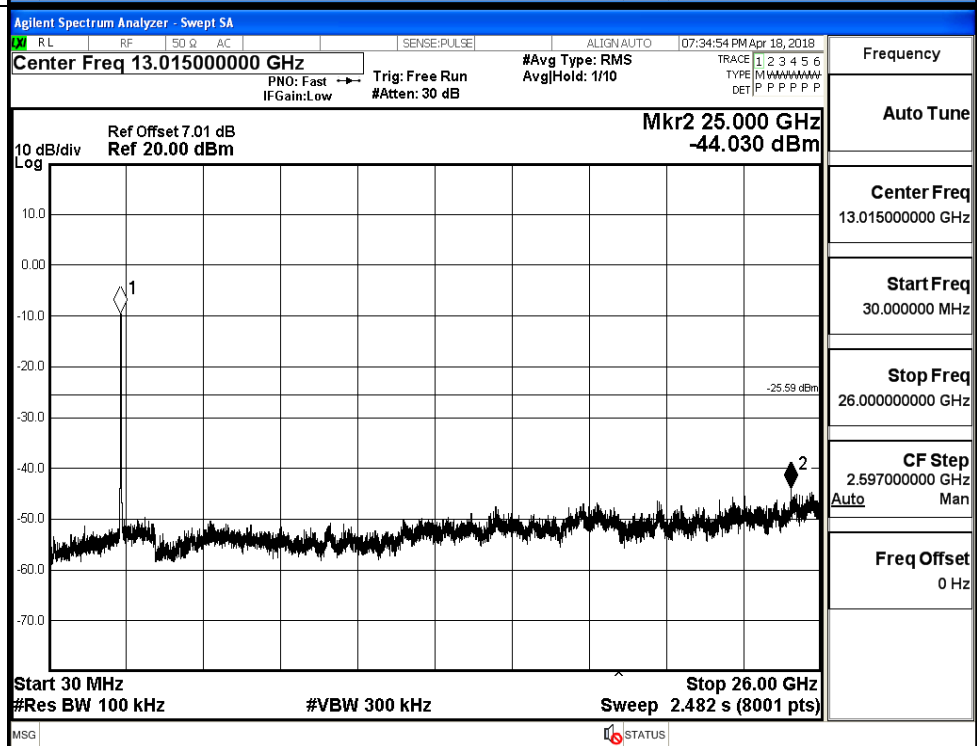
11N40SISO LCH Graphs

Pref/11N40
SISO/LCHPuw/11N40
SISO/LCH

11N40SISO MCH_Graphs

Pref/11N40
SISO/MCHPuw/11N40
SISO/MCH

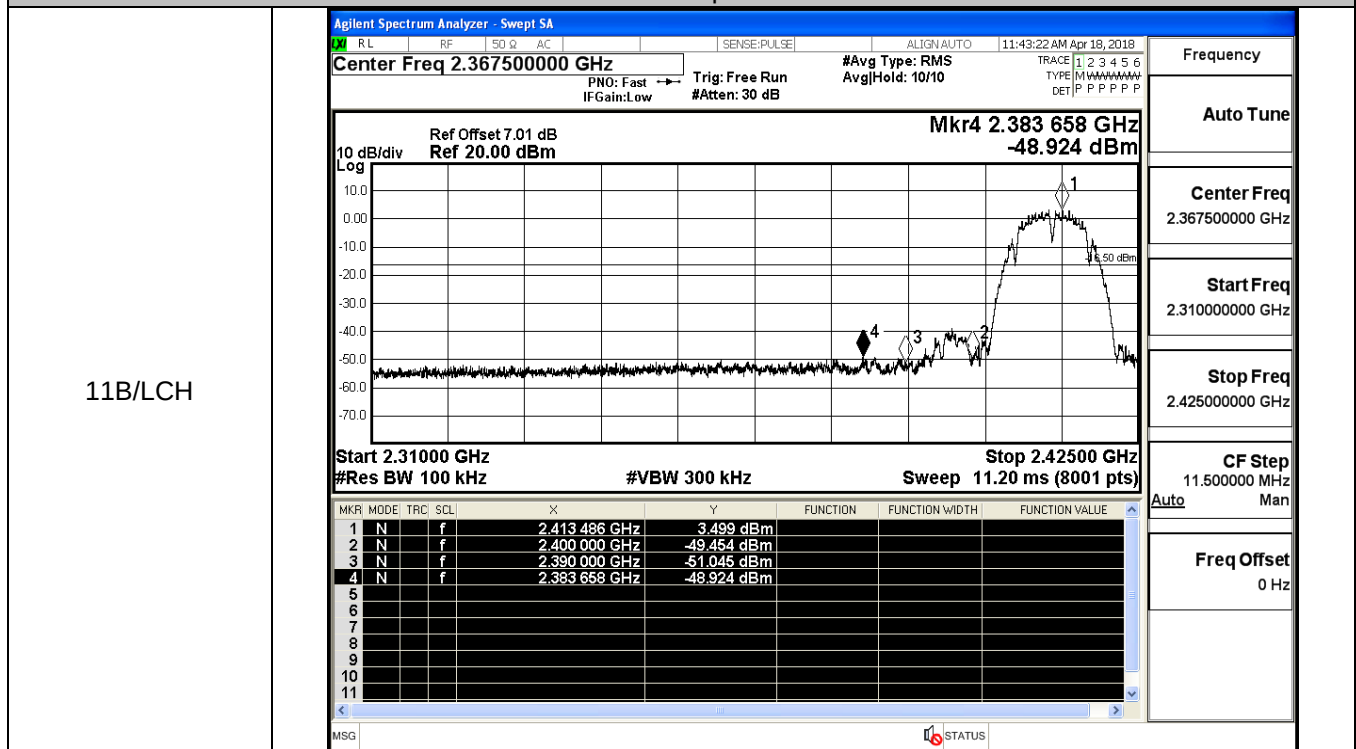
11N40SISO HCH Graphs

Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

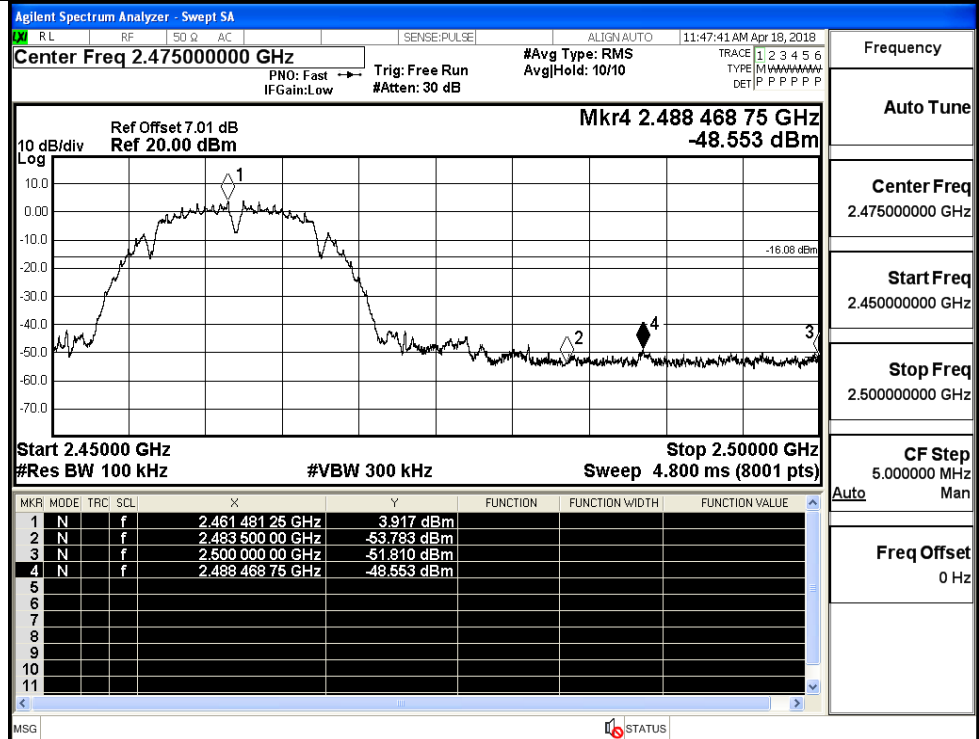
A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.499	-48.924	-16.5	PASS
	HCH	3.917	-48.553	-16.08	PASS
11G	LCH	-0.593	-46.160	-20.59	PASS
	HCH	-2.395	-48.055	-22.4	PASS
11N20SISO	LCH	-3.233	-49.033	-23.23	PASS
	HCH	-2.065	-48.016	-22.07	PASS
11N40SISO	LCH	-5.502	-39.339	-25.5	PASS
	HCH	-5.589	-39.538	-25.59	PASS

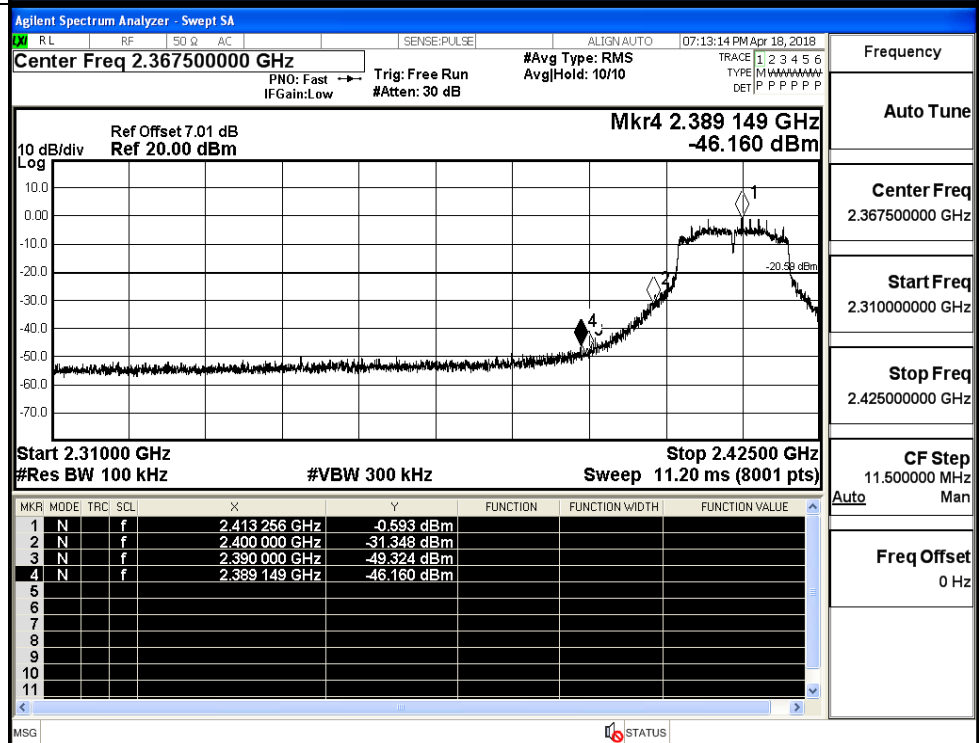
Test Graphs



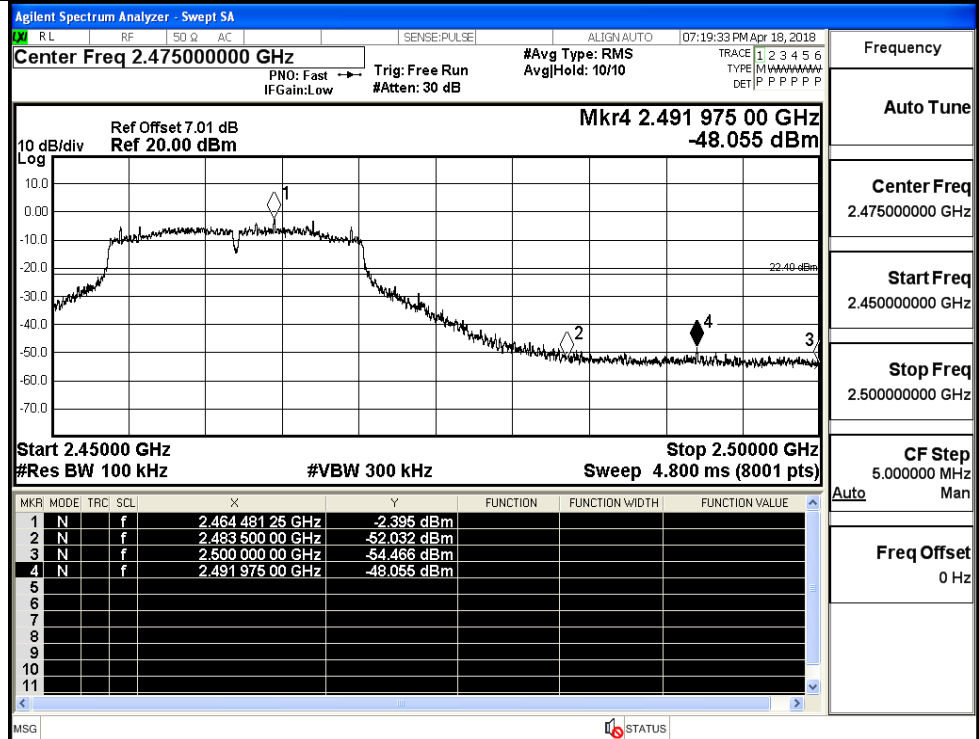
11B/HCH



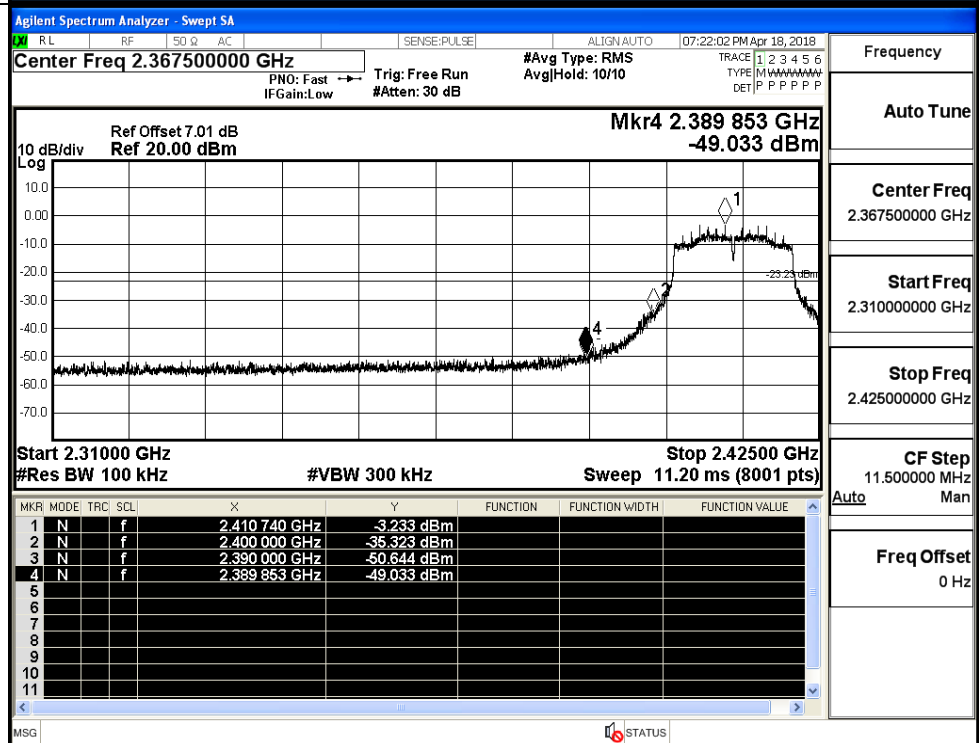
11G/LCH



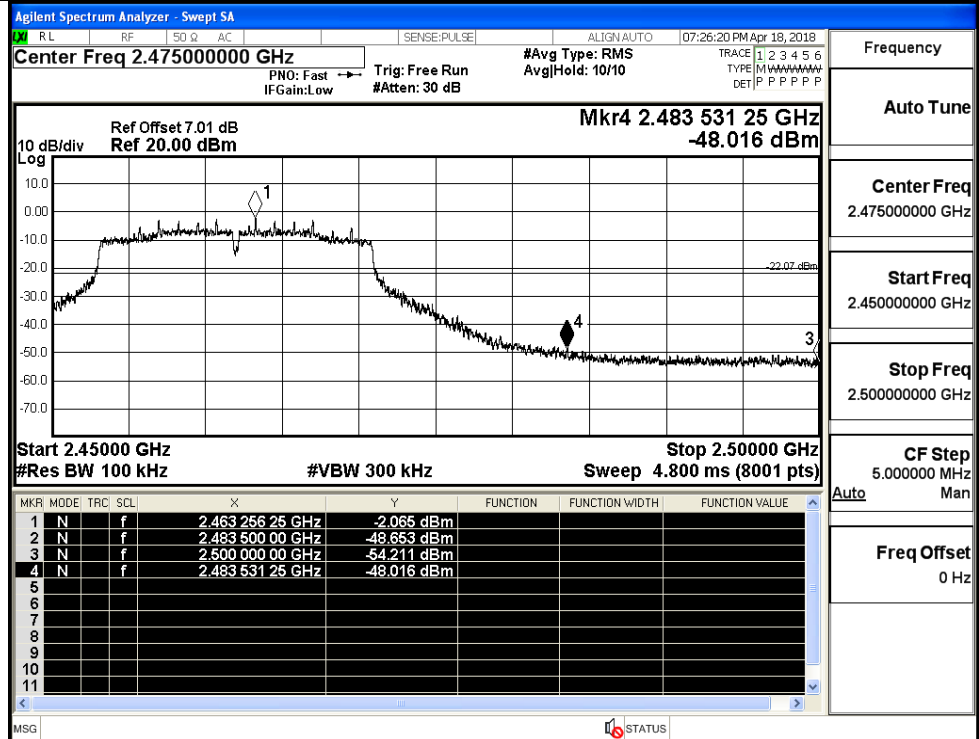
11G/HCH



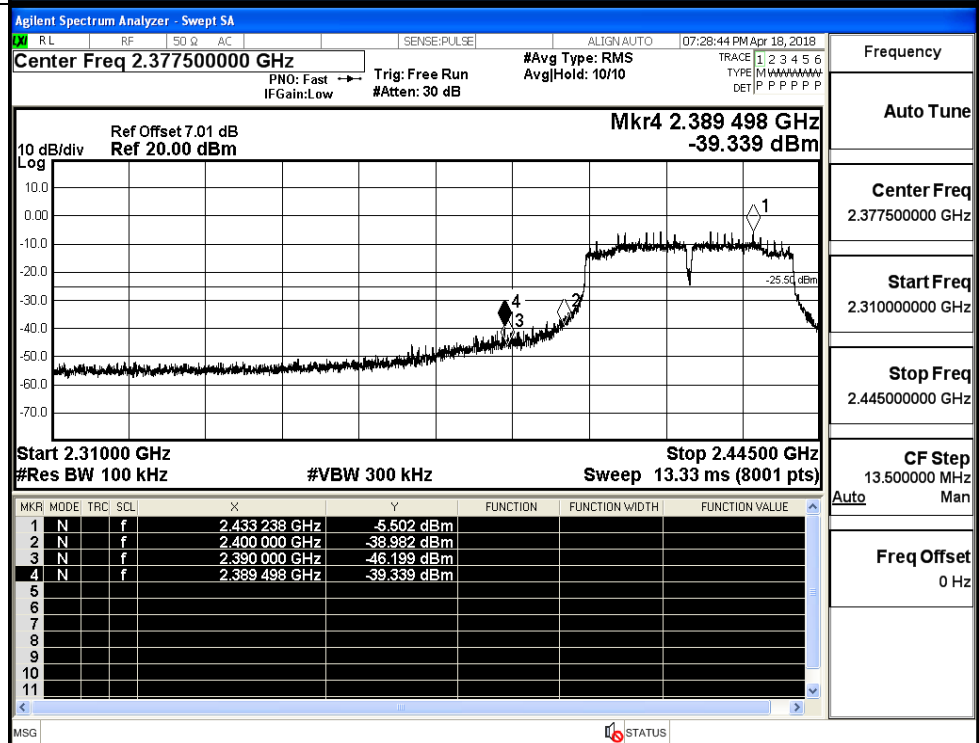
11N20SISO/LCH



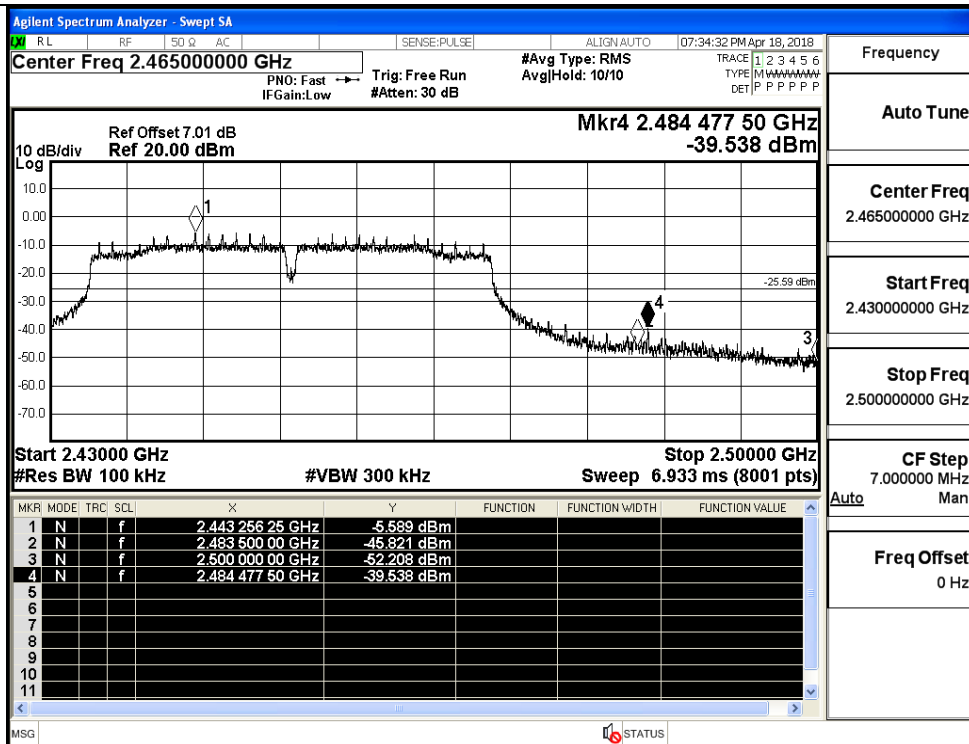
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

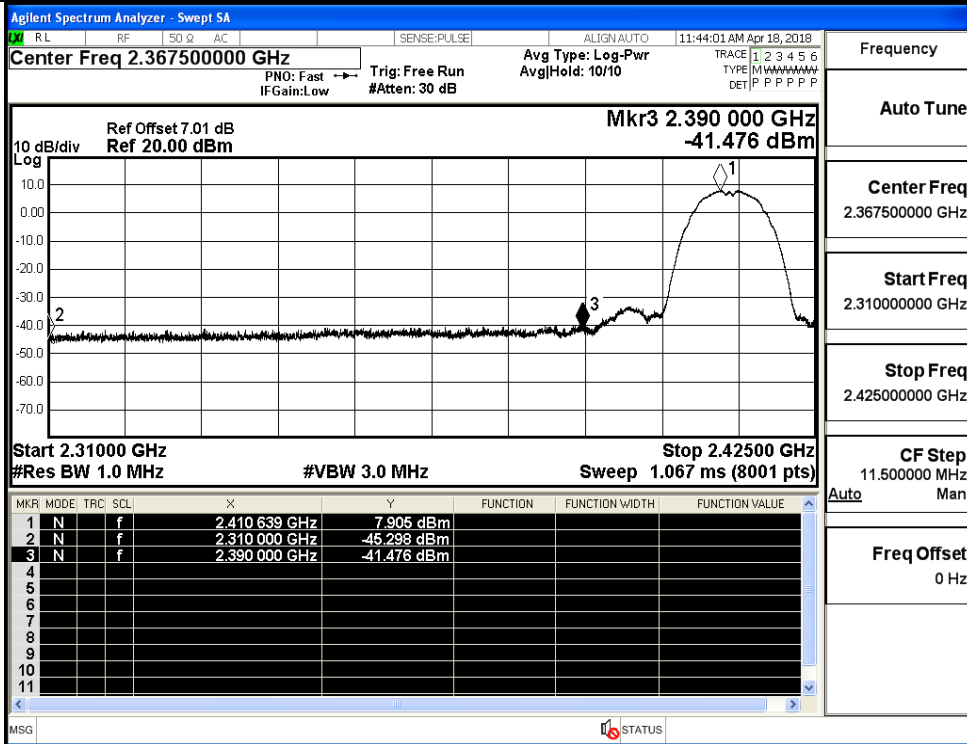


A.7 Restrict-band band-edge measurements

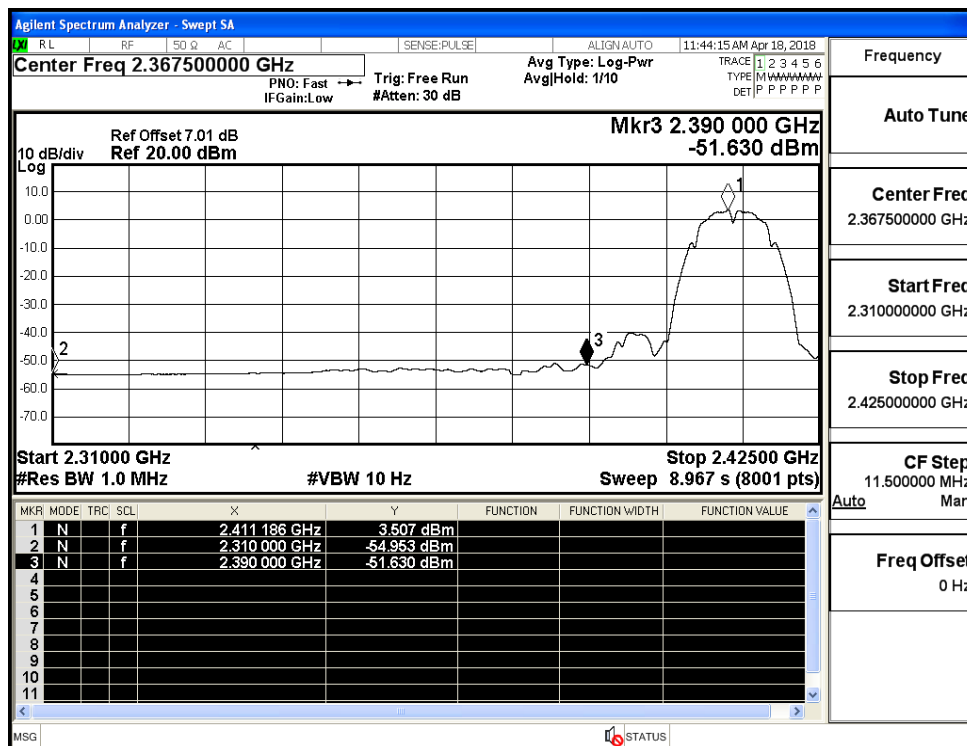
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-45.30	2.0	0	51.90	PEAK	74	PASS
	2412	Ant1	2310.0	-54.95	2.0	0	42.25	AV	54	PASS
	2412	Ant1	2390.0	-41.48	2.0	0	55.72	PEAK	74	PASS
	2412	Ant1	2390.0	-51.63	2.0	0	45.57	AV	54	PASS
	2462	Ant1	2483.5	-42.68	2.0	0	54.52	PEAK	74	PASS
	2462	Ant1	2483.5	-53.25	2.0	0	43.95	AV	54	PASS
	2462	Ant1	2500.0	-43.32	2.0	0	53.88	PEAK	74	PASS
	2462	Ant1	2500.0	-53.47	2.0	0	43.73	AV	54	PASS
11G	2412	Ant1	2310.0	-43.73	2.0	0	53.47	PEAK	74	PASS
	2412	Ant1	2310.0	-54.96	2.0	0	42.24	AV	54	PASS
	2412	Ant1	2390.0	-34.77	2.0	0	62.43	PEAK	74	PASS
	2412	Ant1	2390.0	-49.30	2.0	0	47.90	AV	54	PASS
	2462	Ant1	2483.5	-41.88	2.0	0	55.32	PEAK	74	PASS
	2462	Ant1	2483.5	-51.88	2.0	0	45.32	AV	54	PASS
	2462	Ant1	2500.0	-43.78	2.0	0	53.42	PEAK	74	PASS
	2462	Ant1	2500.0	-53.52	2.0	0	43.68	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-45.08	2.0	0	52.12	PEAK	74	PASS
	2412	Ant1	2310.0	-55.03	2.0	0	42.17	AV	54	PASS
	2412	Ant1	2390.0	-38.82	2.0	0	58.38	PEAK	74	PASS
	2412	Ant1	2390.0	-50.70	2.0	0	46.50	AV	54	PASS
	2462	Ant1	2483.5	-39.40	2.0	0	57.80	PEAK	74	PASS
	2462	Ant1	2483.5	-51.26	2.0	0	45.94	AV	54	PASS
	2462	Ant1	2500.0	-42.45	2.0	0	54.75	PEAK	74	PASS
	2462	Ant1	2500.0	-53.56	2.0	0	43.64	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-44.79	2.0	0	52.41	PEAK	74	PASS
	2422	Ant1	2310.0	-55.01	2.0	0	42.19	AV	54	PASS
	2422	Ant1	2390.0	-33.34	2.0	0	63.86	PEAK	74	PASS

	2422	Ant1	2390.0	-45.24	2.0	0	51.96	AV	54	PASS
	2452	Ant1	2483.5	-35.39	2.0	0	61.81	PEAK	74	PASS
	2452	Ant1	2483.5	-46.77	2.0	0	50.43	AV	54	PASS
	2452	Ant1	2500.0	-41.63	2.0	0	55.57	PEAK	74	PASS
	2452	Ant1	2500.0	-52.29	2.0	0	44.91	AV	54	PASS

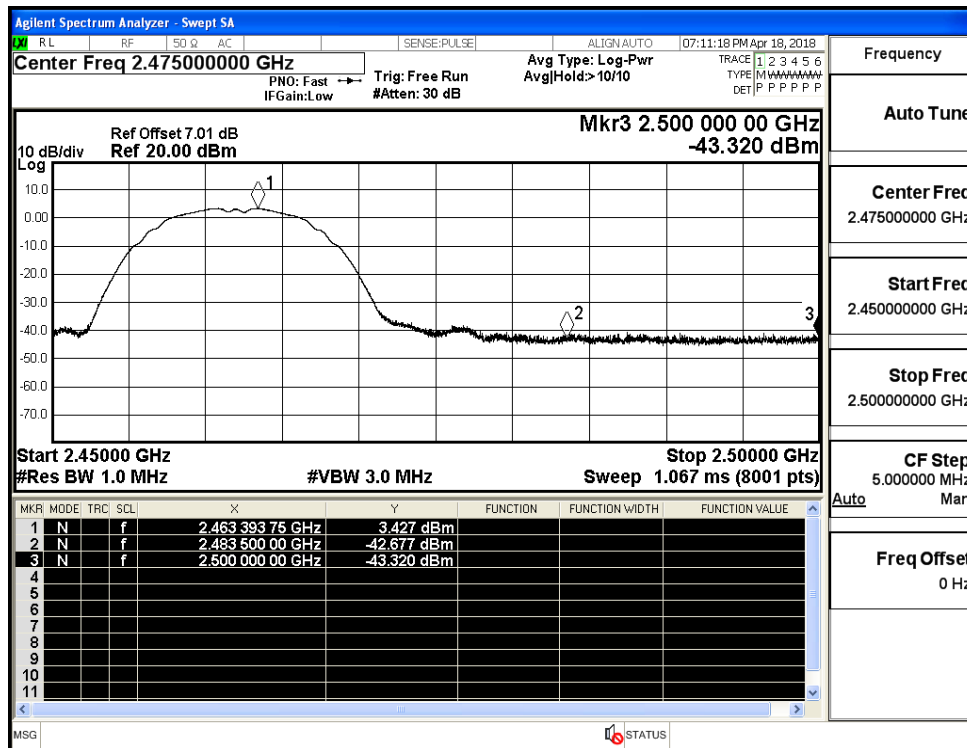
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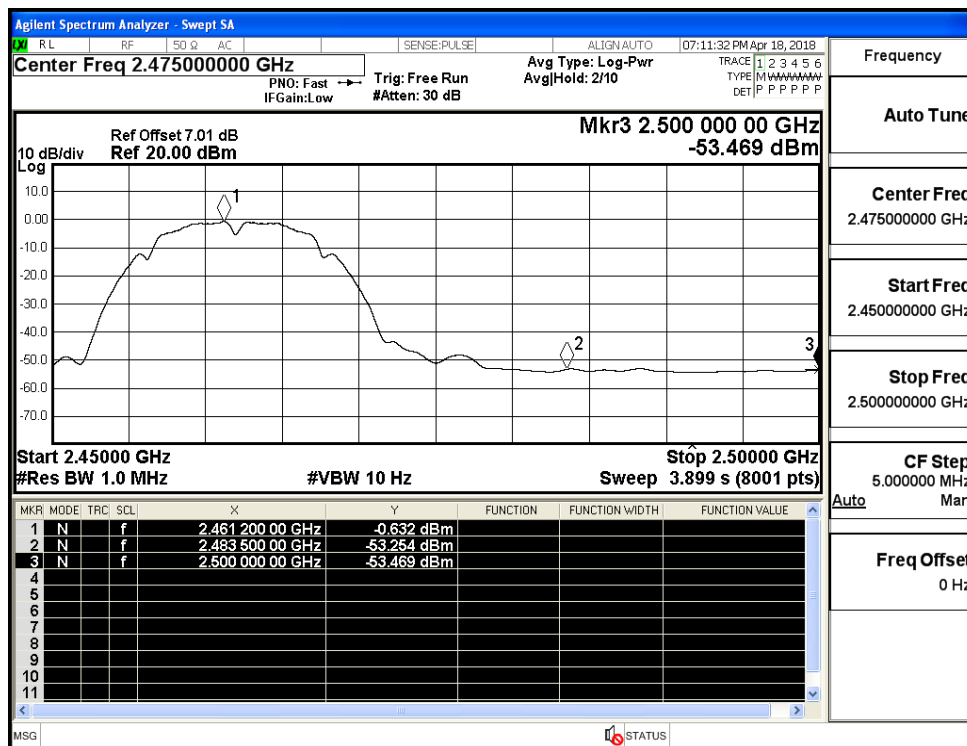
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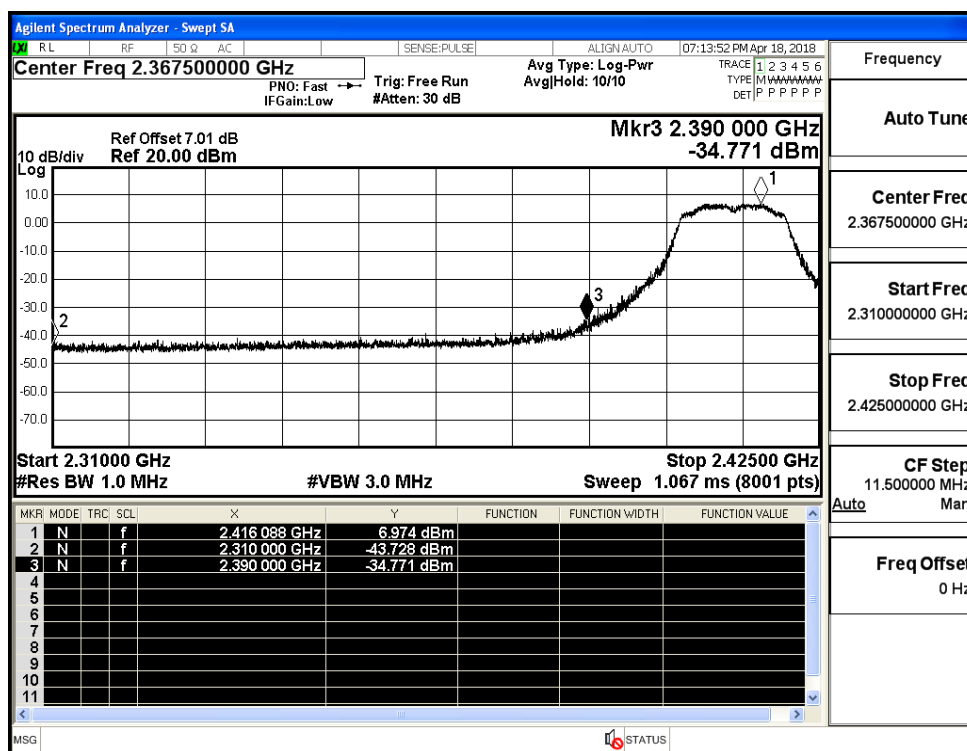
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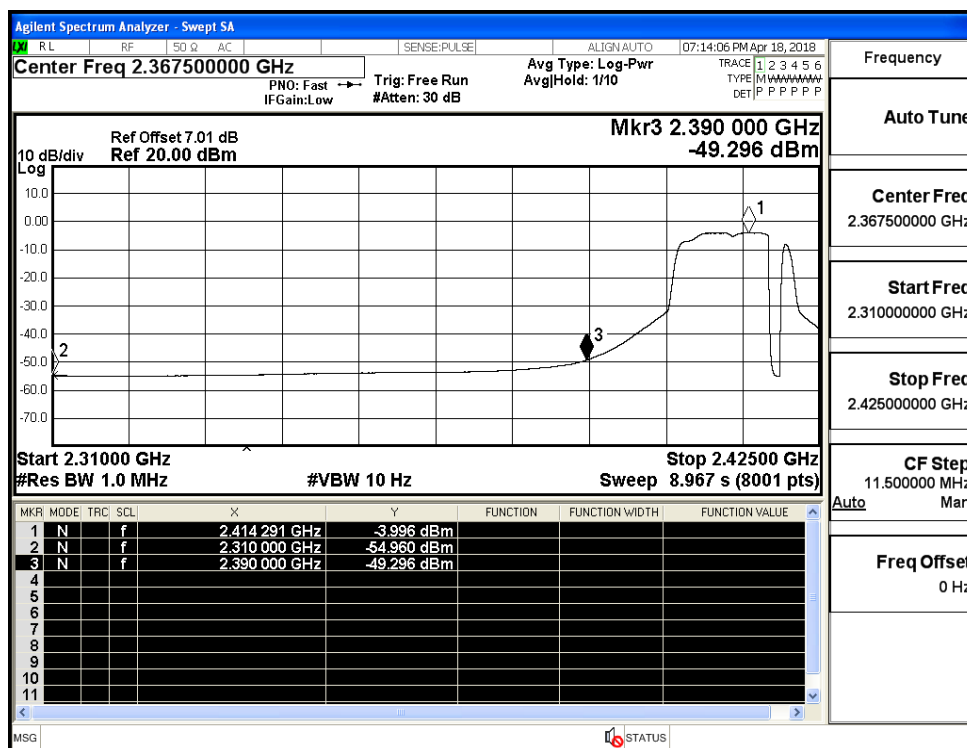
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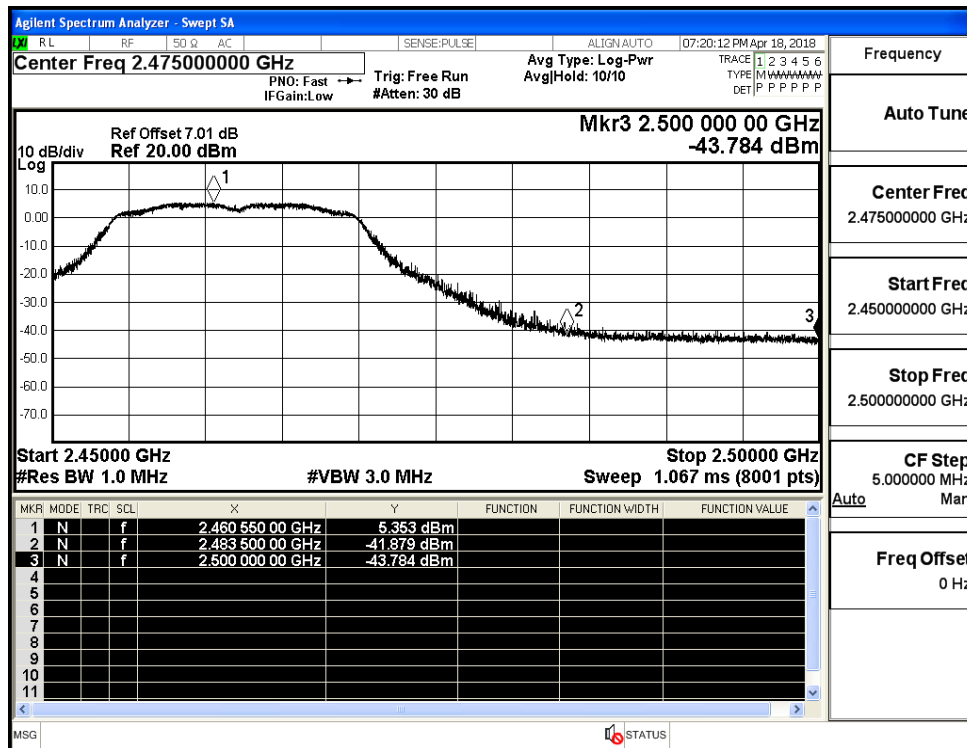
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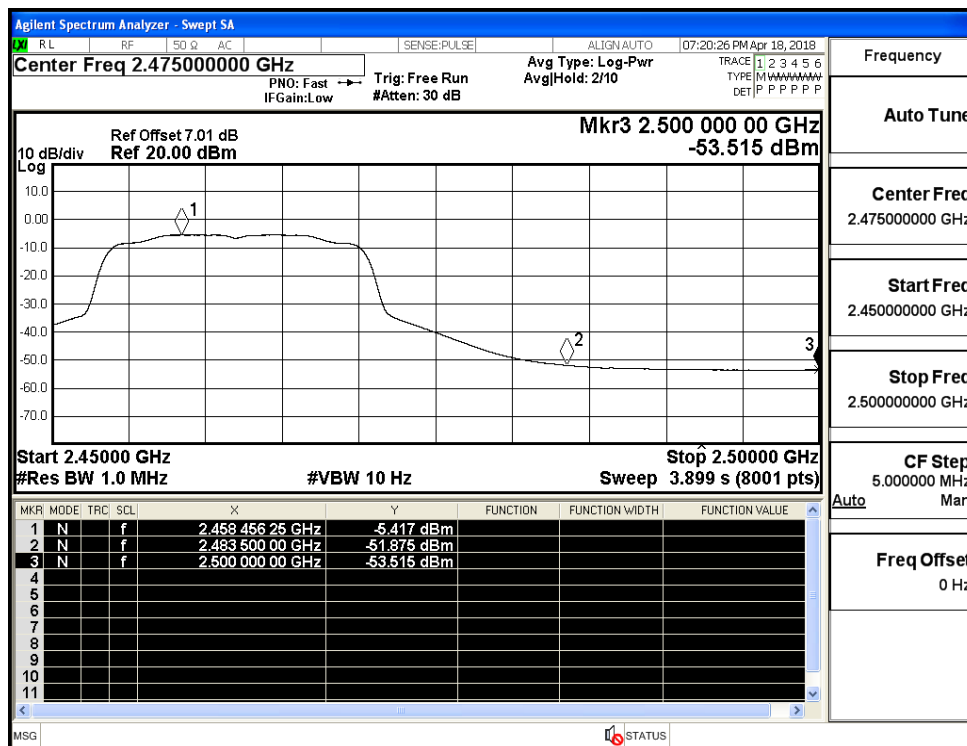
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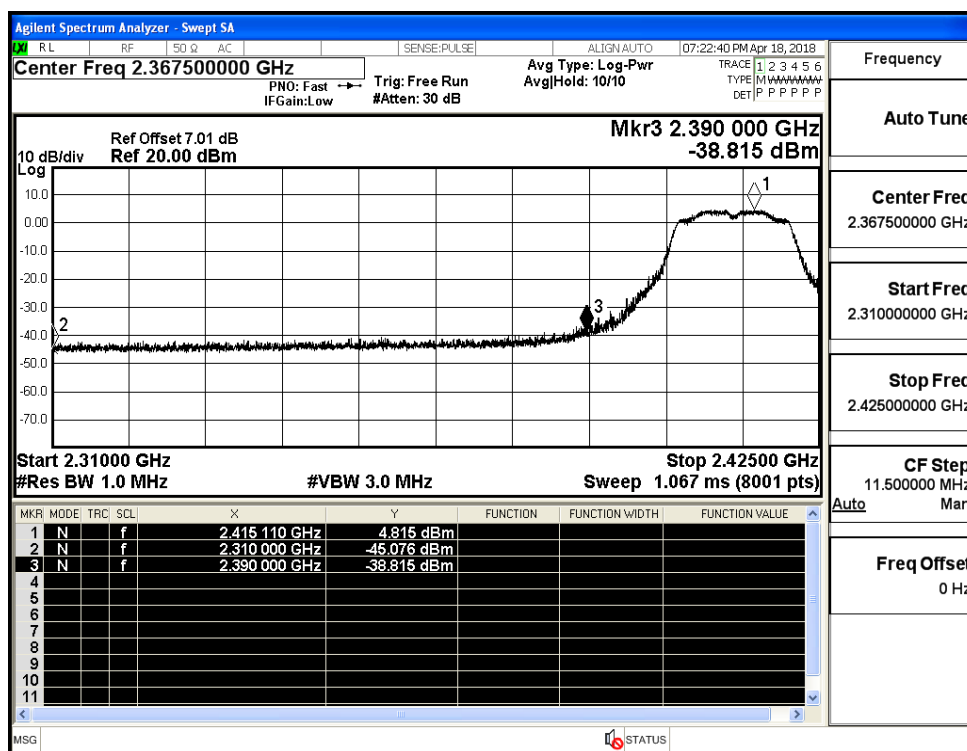
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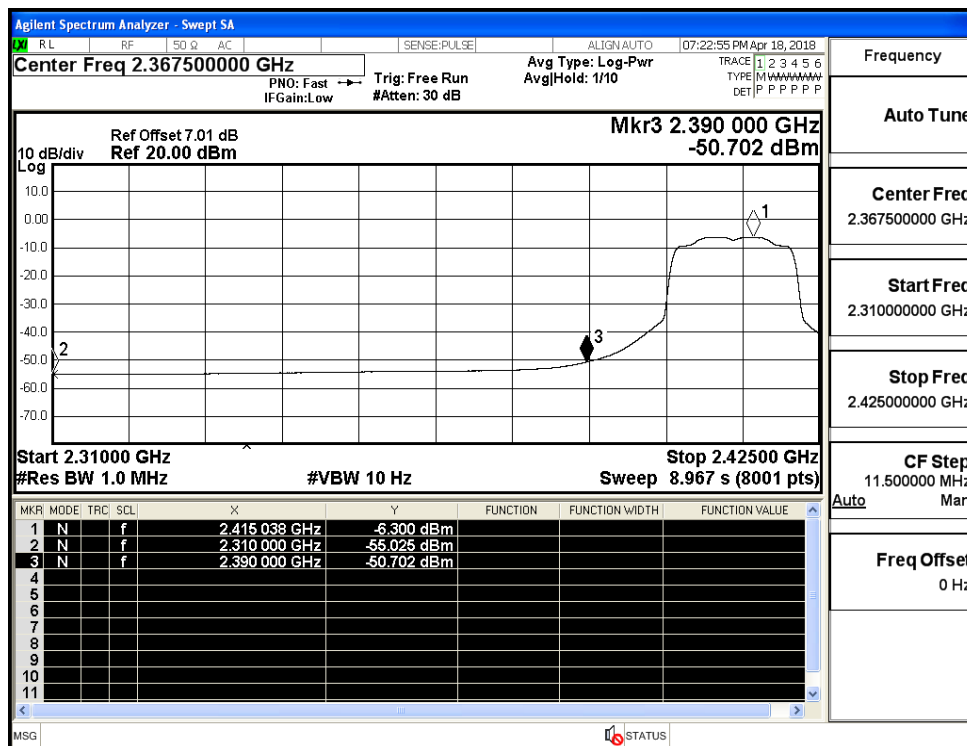
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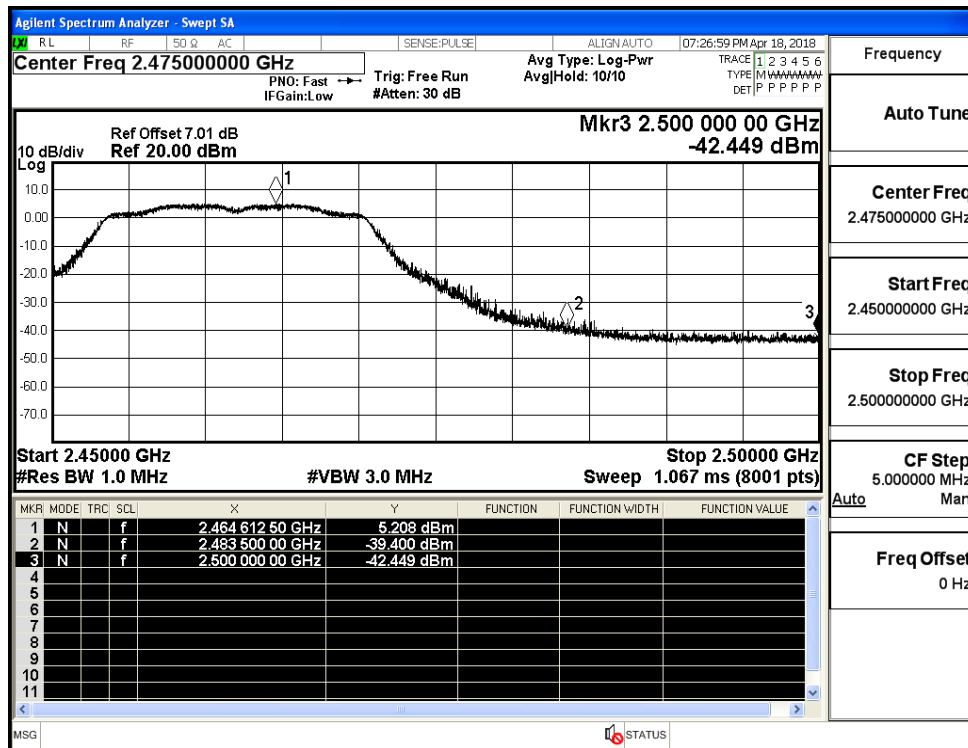
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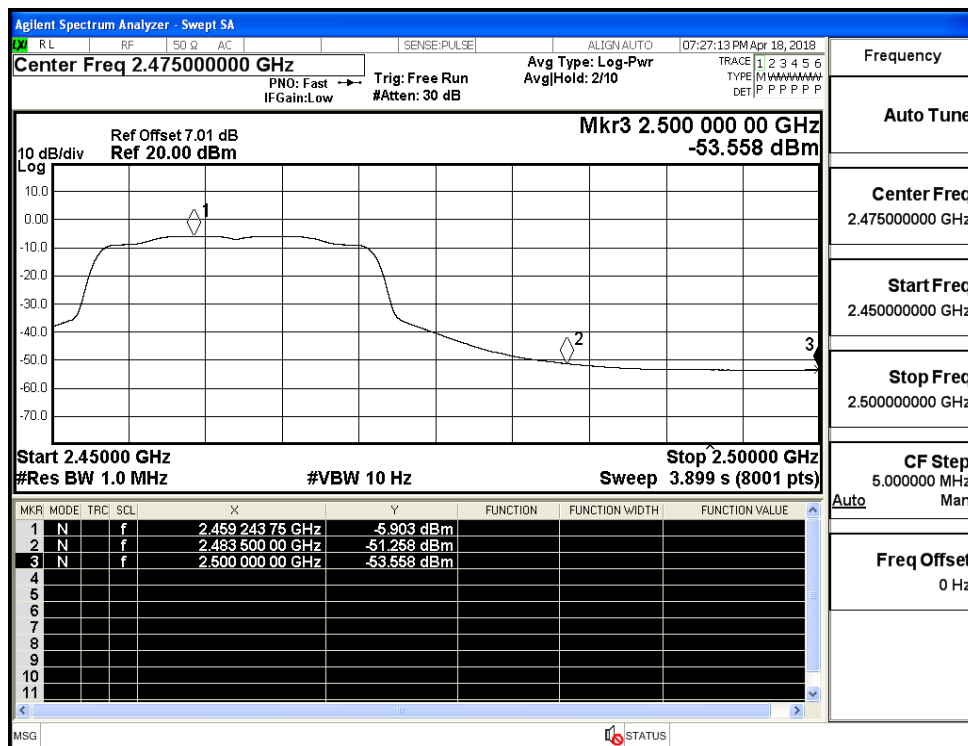
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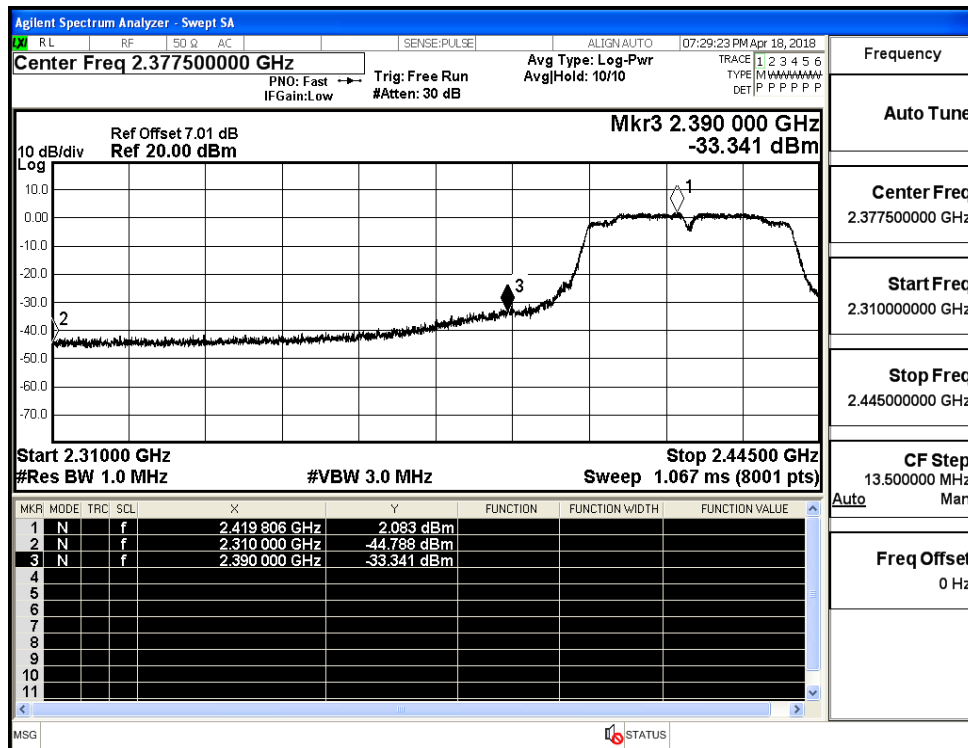
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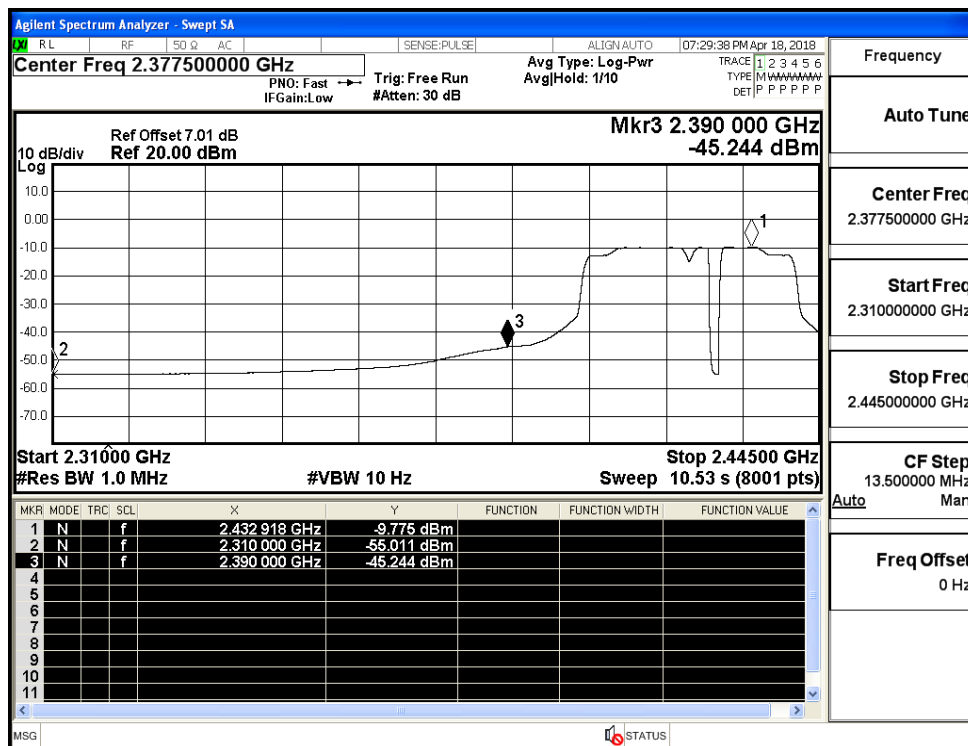
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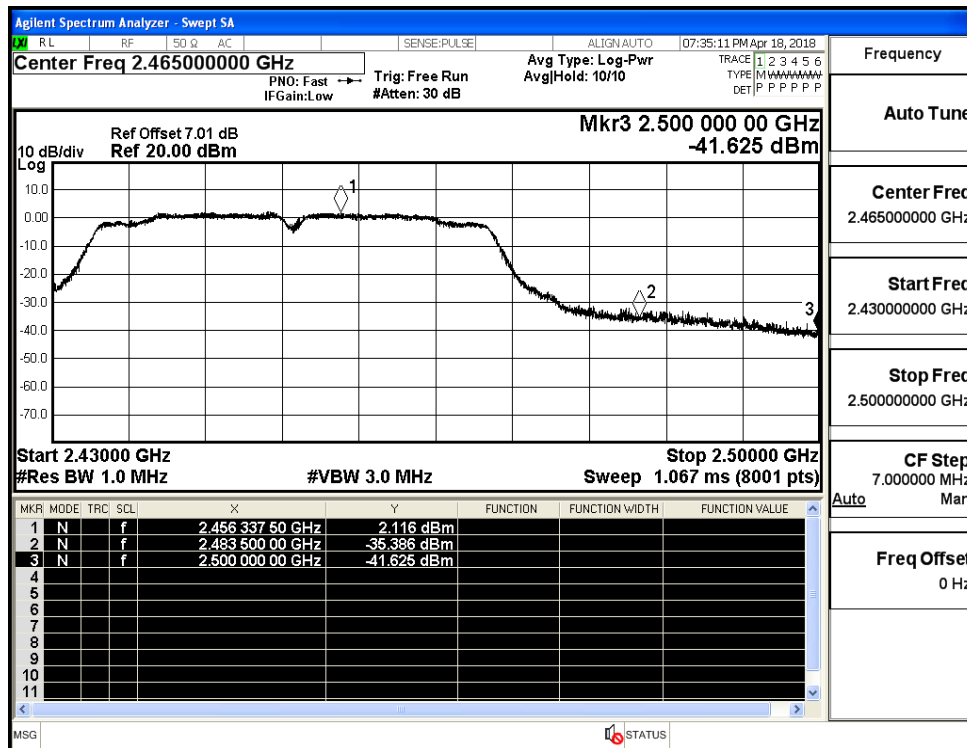
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

