

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LTE GSM/WCDMA Smartphone

Trade Mark: DOOGEE

Test Model: S80

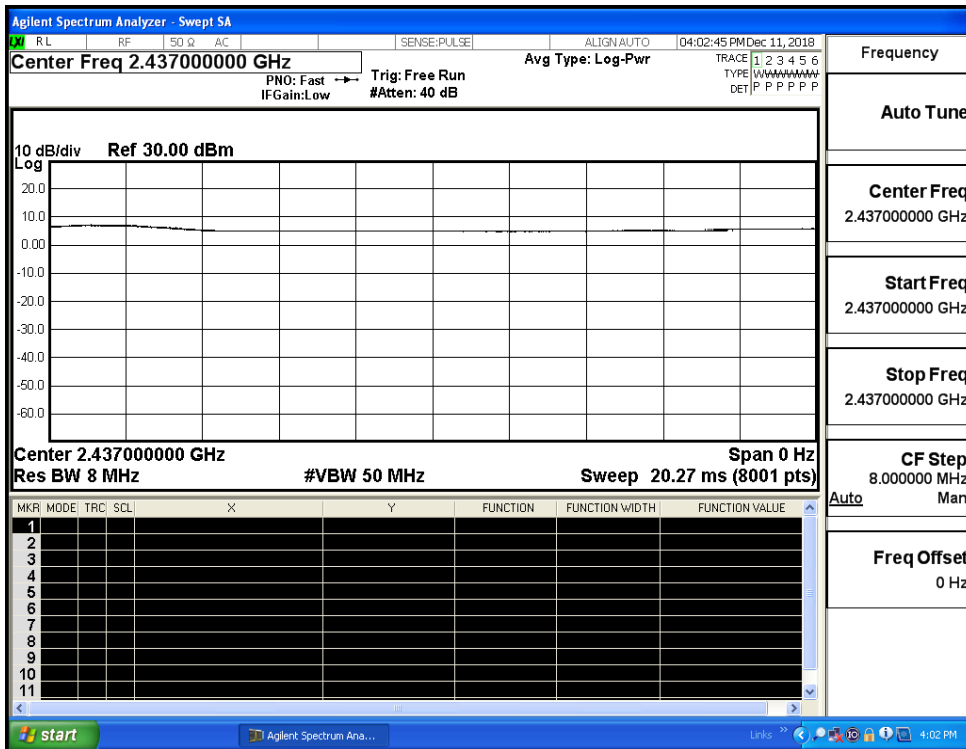
Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden.Zhuo

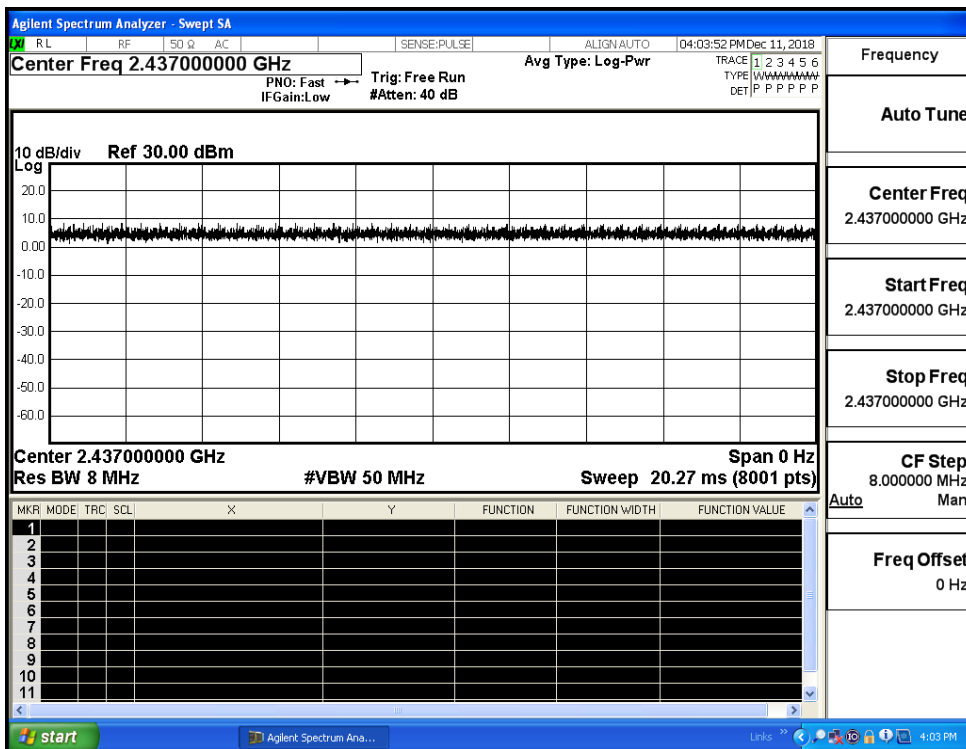
C.1 Duty Cycle

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

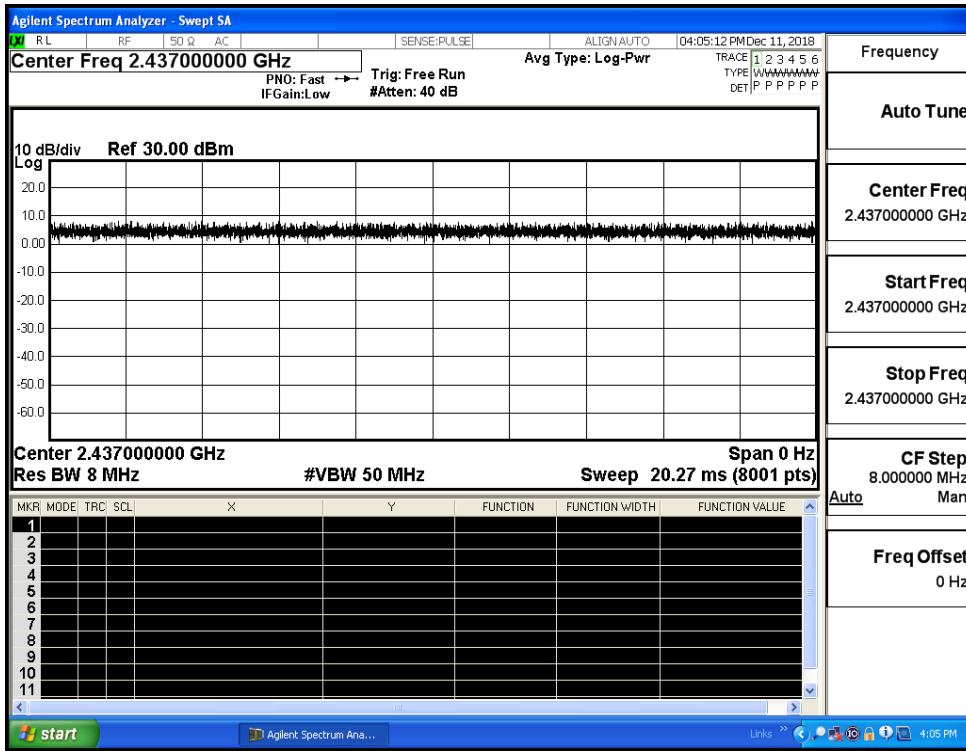
Duty Cycle_11B_2437_Ant1



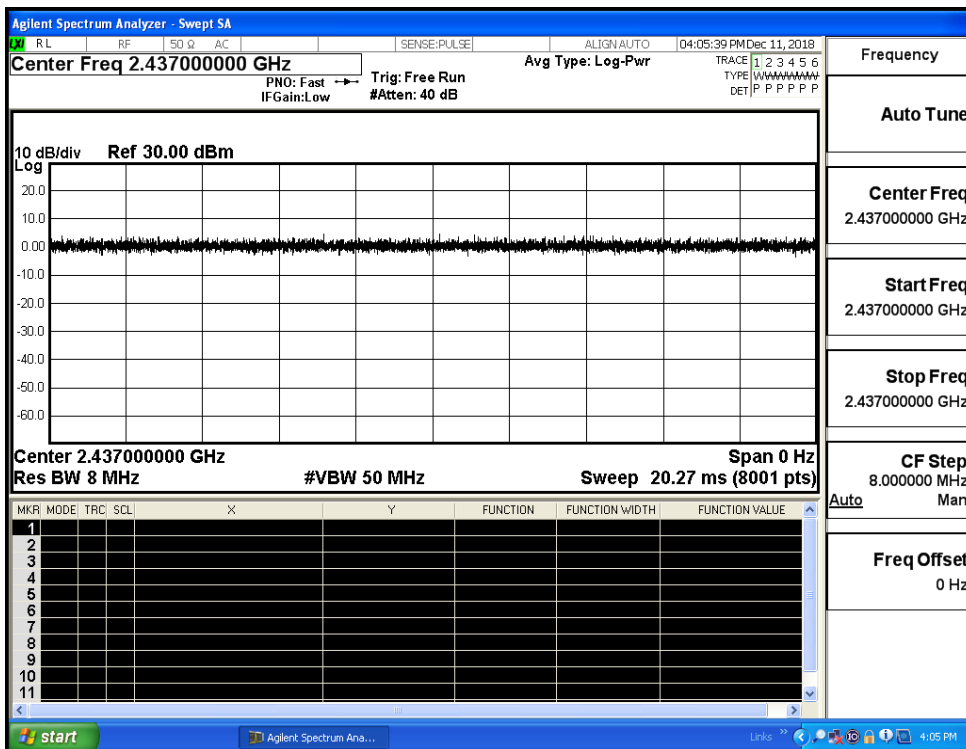
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



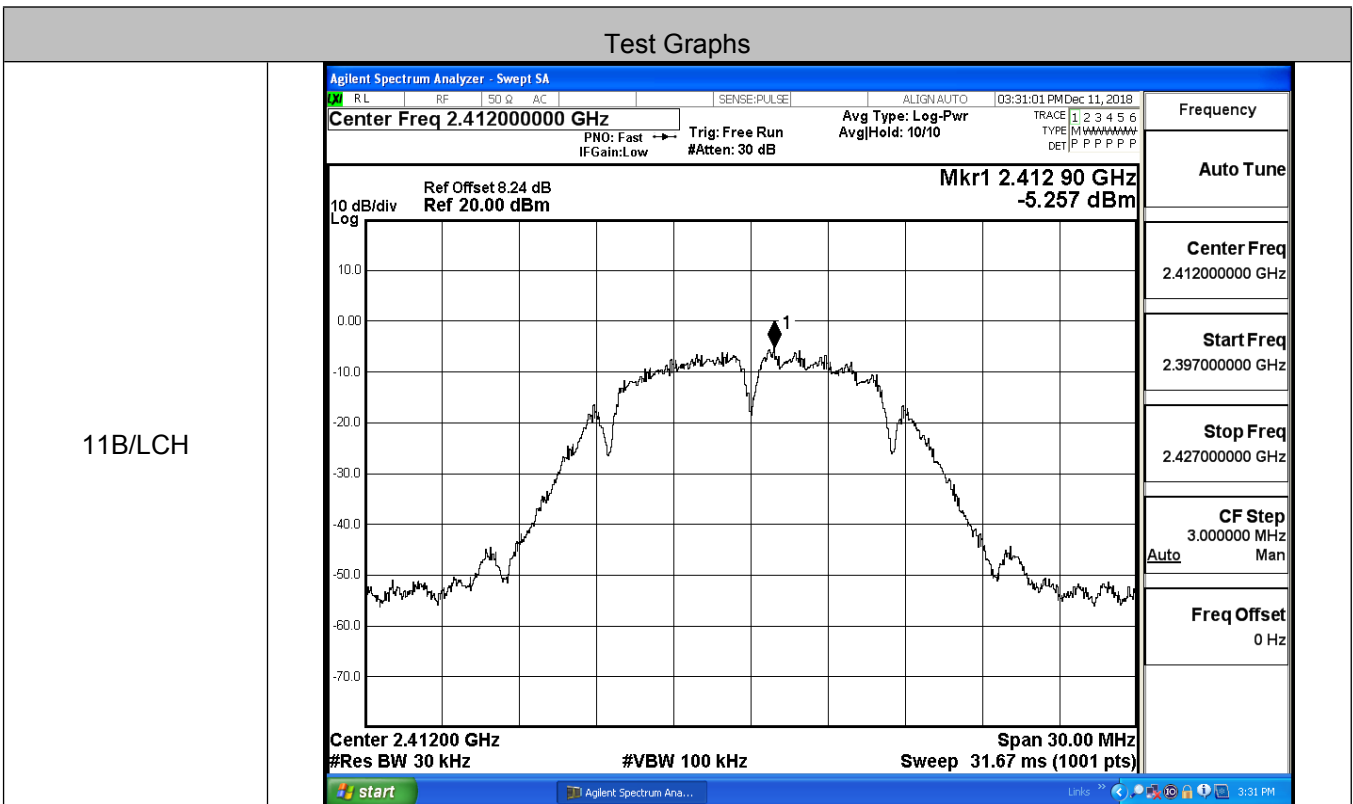
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level Peak [dBm]	Meas.Level Average [dBm]	Limit [dBm]	Verdict
11B	LCH	18.19	16.79	30	PASS
	MCH	18.94	16.02	30	PASS
	HCH	18.68	16.49	30	PASS
11G	LCH	17.35	15.32	30	PASS
	MCH	17.13	15.44	30	PASS
	HCH	17.84	15.07	30	PASS
11N20SISO	LCH	16.47	14.78	30	PASS
	MCH	17.23	15.19	30	PASS
	HCH	16.03	14.79	30	PASS
11N40SISO	LCH	17.63	15.02	30	PASS
	MCH	16.08	14.49	30	PASS
	HCH	16.50	14.32	30	PASS

C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.257	8	PASS
	MCH	-4.743	8	PASS
	HCH	-4.801	8	PASS
11G	LCH	-8.756	8	PASS
	MCH	-6.764	8	PASS
	HCH	-6.761	8	PASS
11N20SISO	LCH	-8.358	8	PASS
	MCH	-6.110	8	PASS
	HCH	-5.996	8	PASS
11N40SISO	LCH	-10.786	8	PASS
	MCH	-10.847	8	PASS
	HCH	-10.785	8	PASS

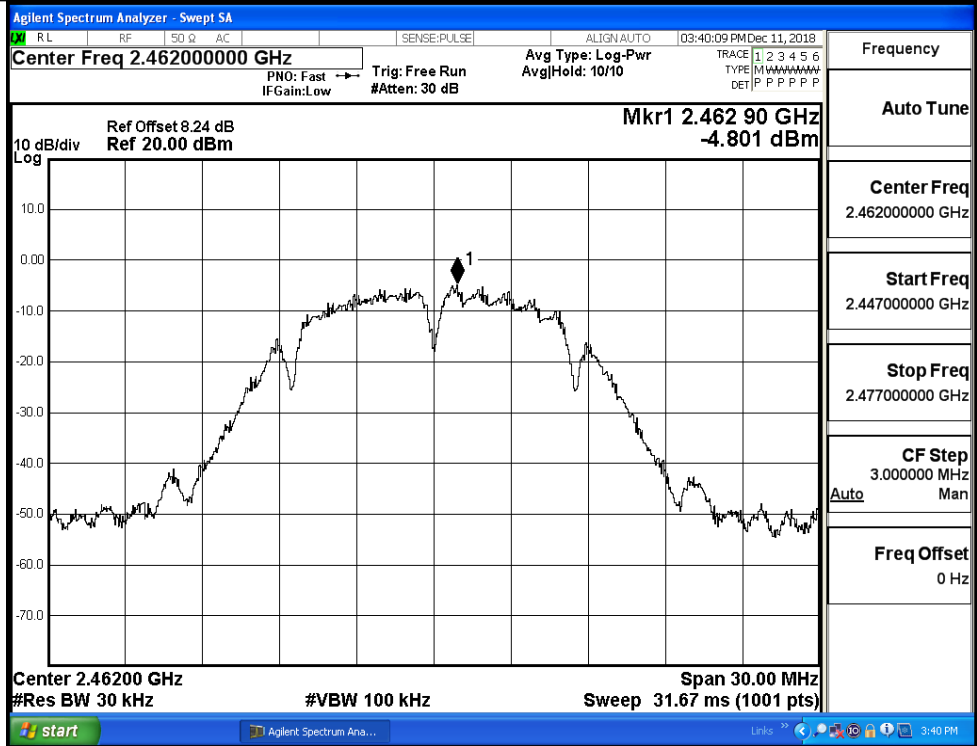
Test Graphs



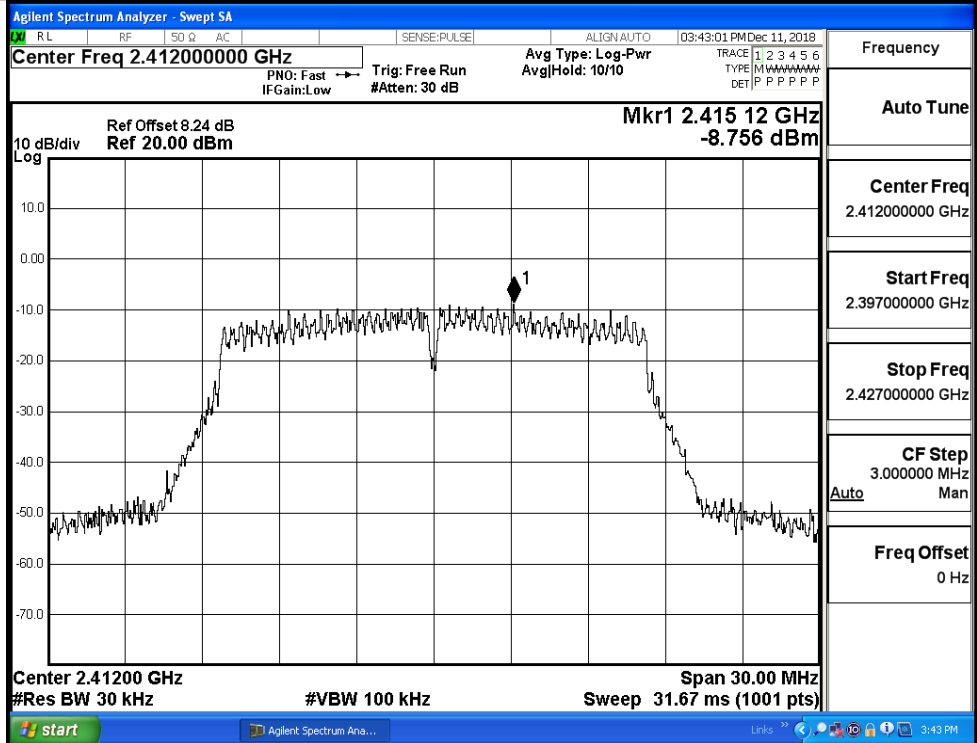
11B/MCH



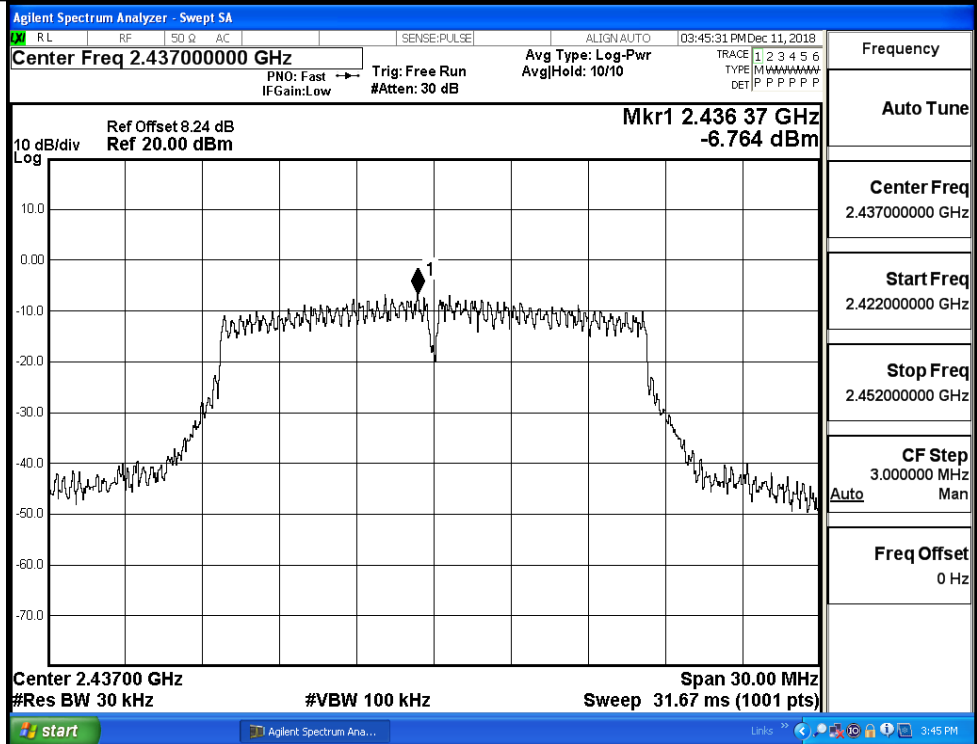
11B/HCH



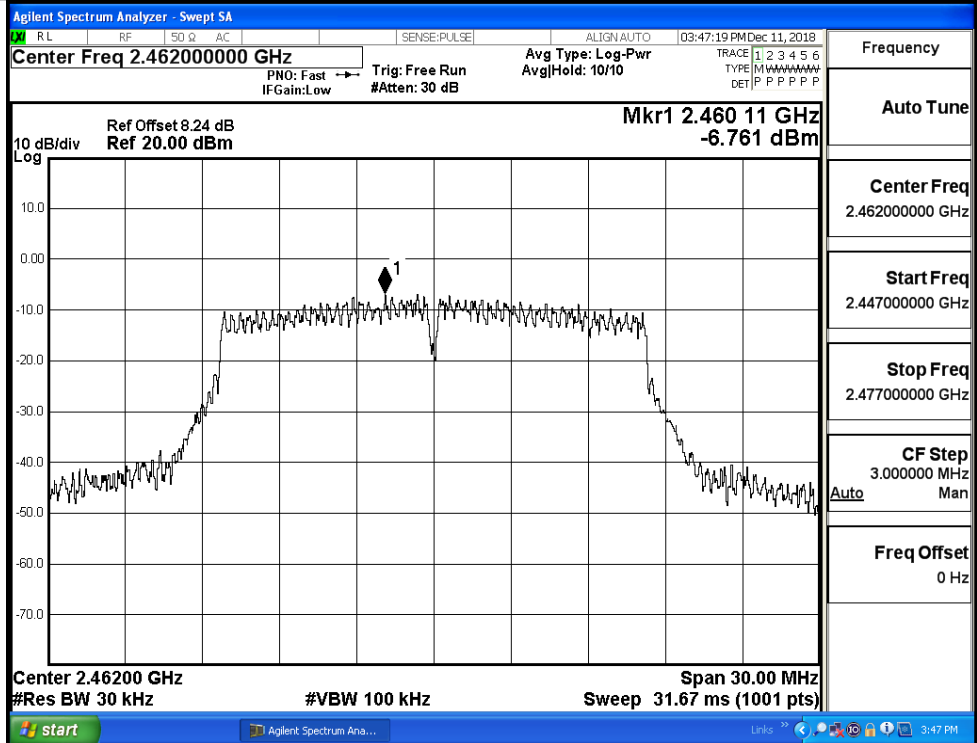
11G/LCH



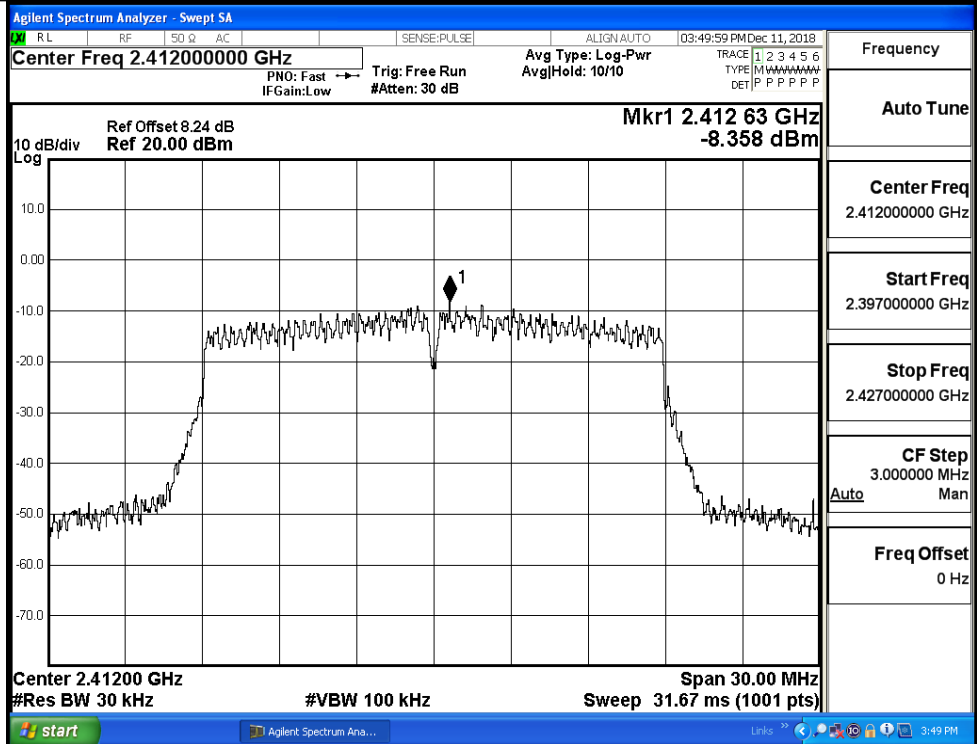
11G/MCH



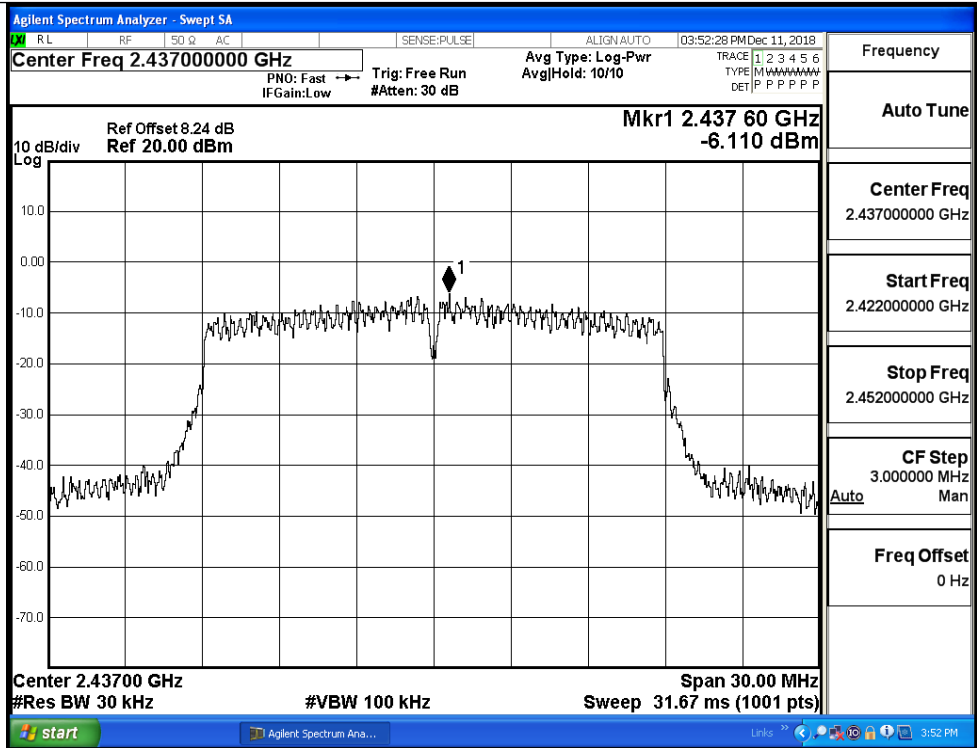
11G/HCH



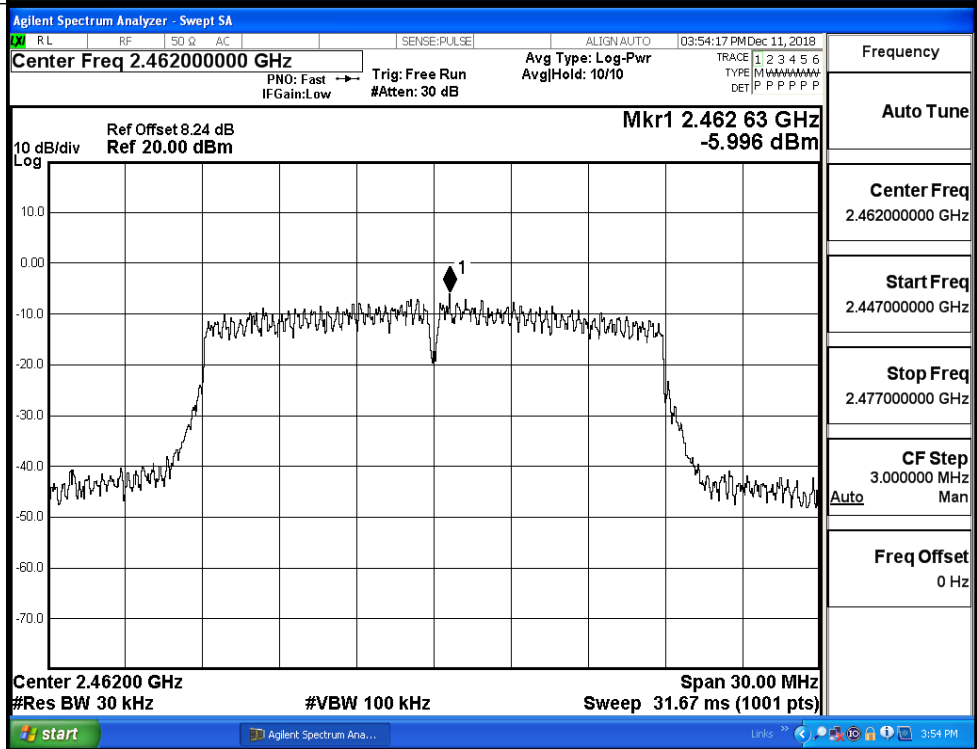
11N20SISO/LCH



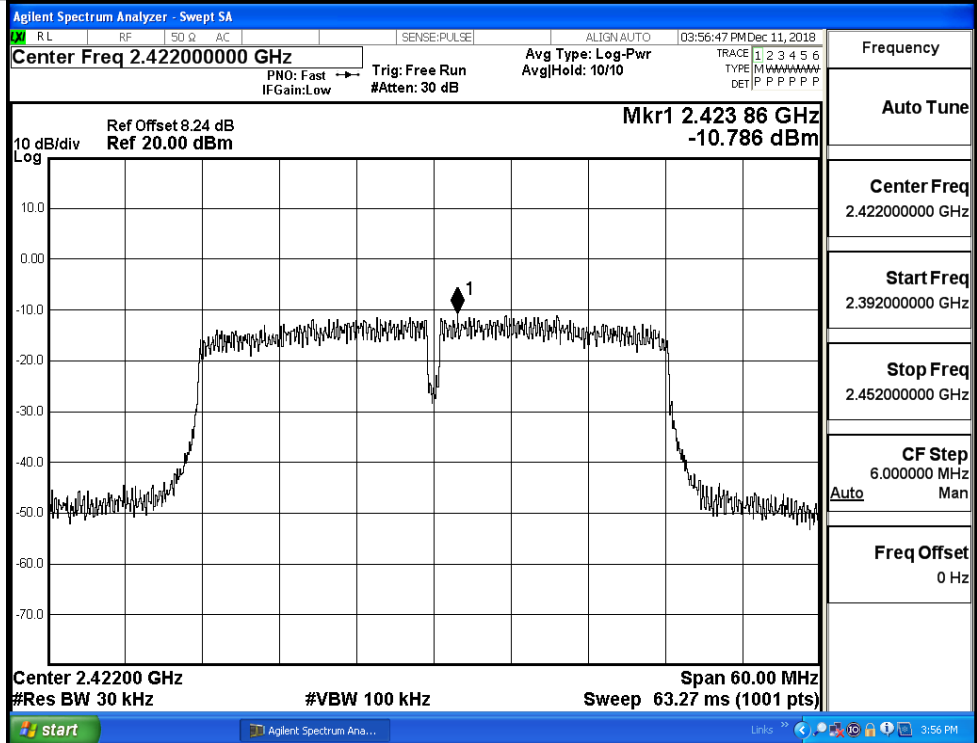
11N20SISO/MCH



11N20SISO/HCH

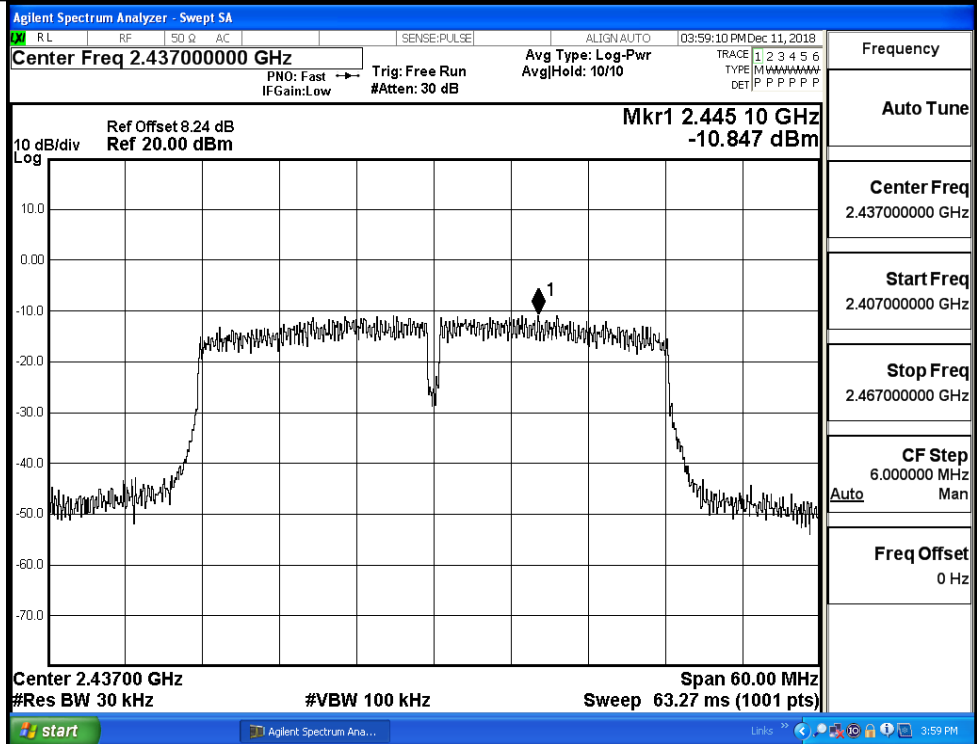


11N40SISO/LCH



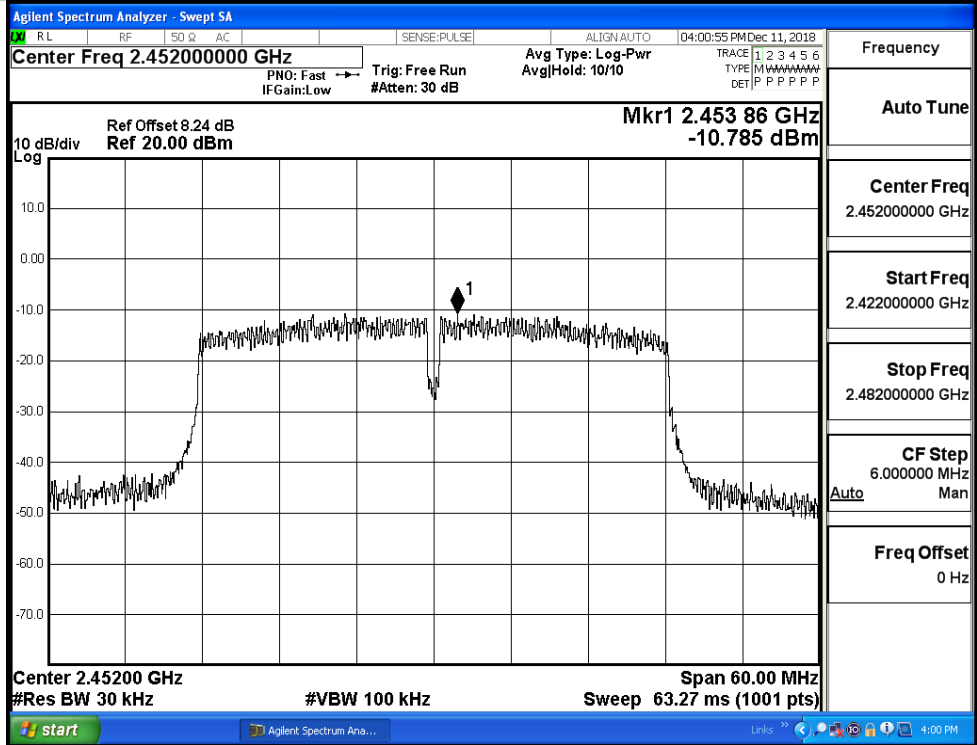
Frequency	2.42200000 GHz
Auto Tune	
Center Freq	2.42200000 GHz
Start Freq	2.39200000 GHz
Stop Freq	2.45200000 GHz
CF Step	6.000000 MHz Auto Man
Freq Offset	0 Hz

11N40SISO/MCH



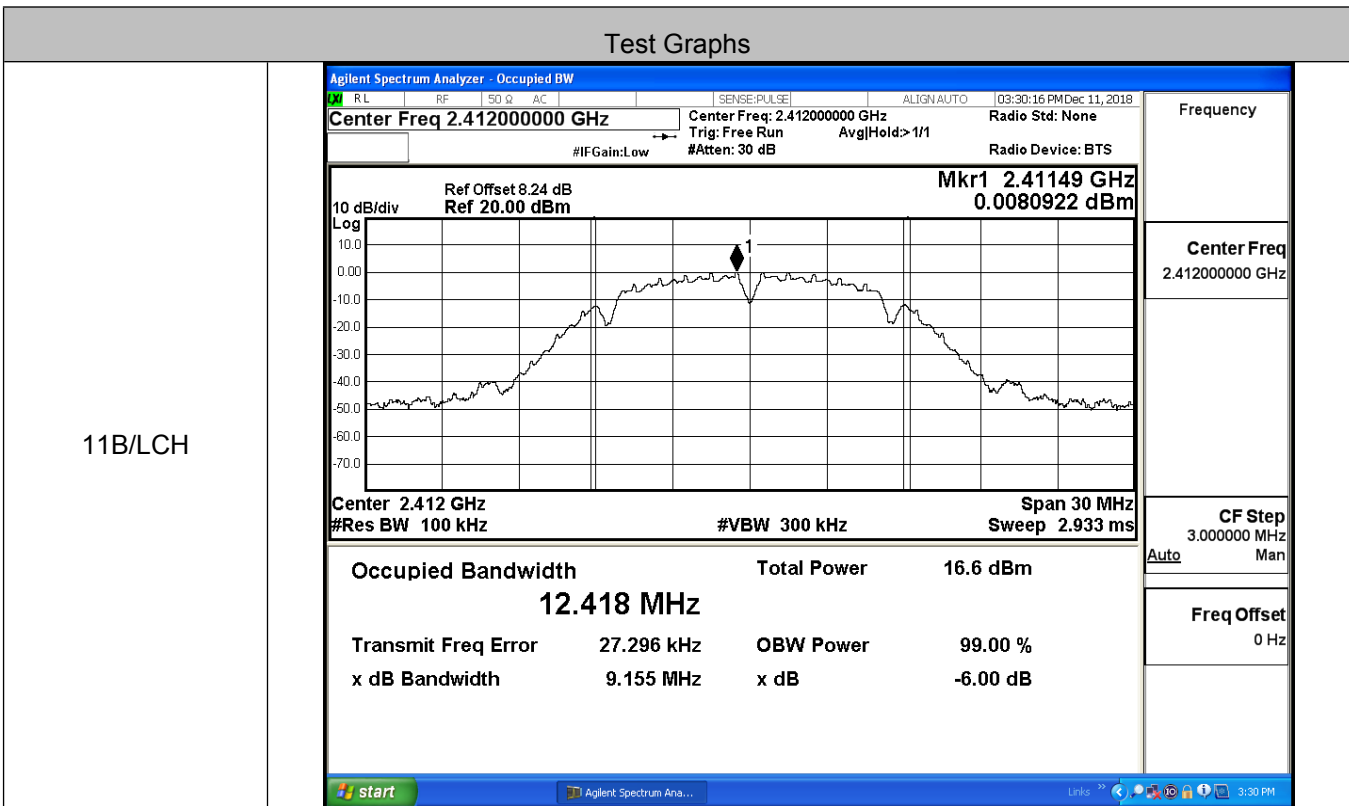
Frequency	2.43700000 GHz
Auto Tune	
Center Freq	2.43700000 GHz
Start Freq	2.40700000 GHz
Stop Freq	2.46700000 GHz
CF Step	6.000000 MHz Auto Man
Freq Offset	0 Hz

11N40SISO/HCH

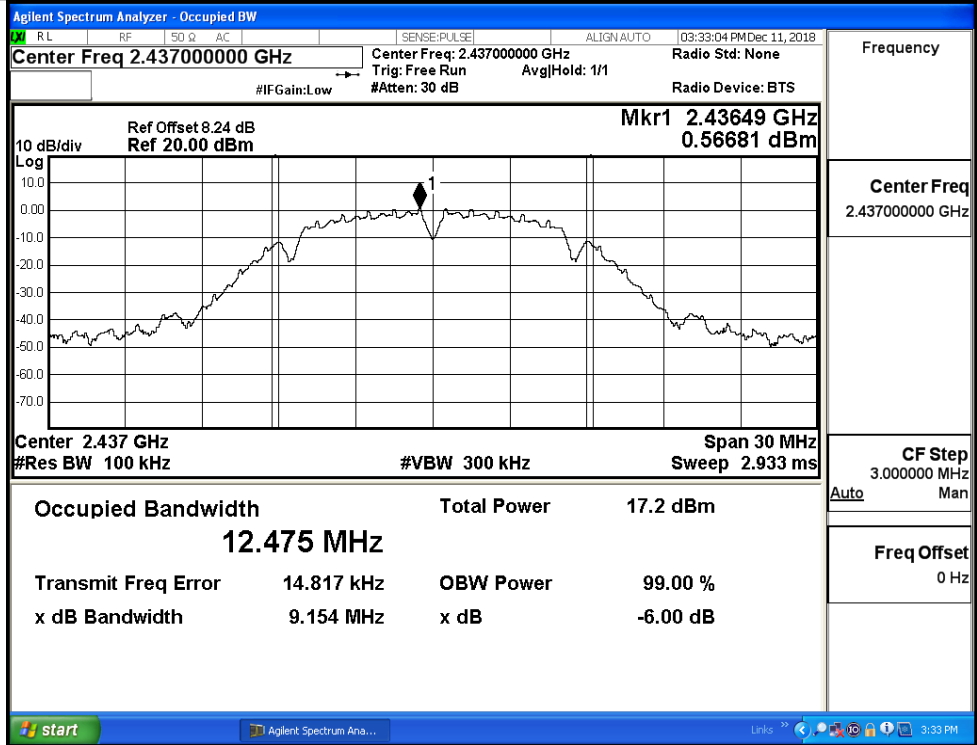


C.4 6dB Bandwidth

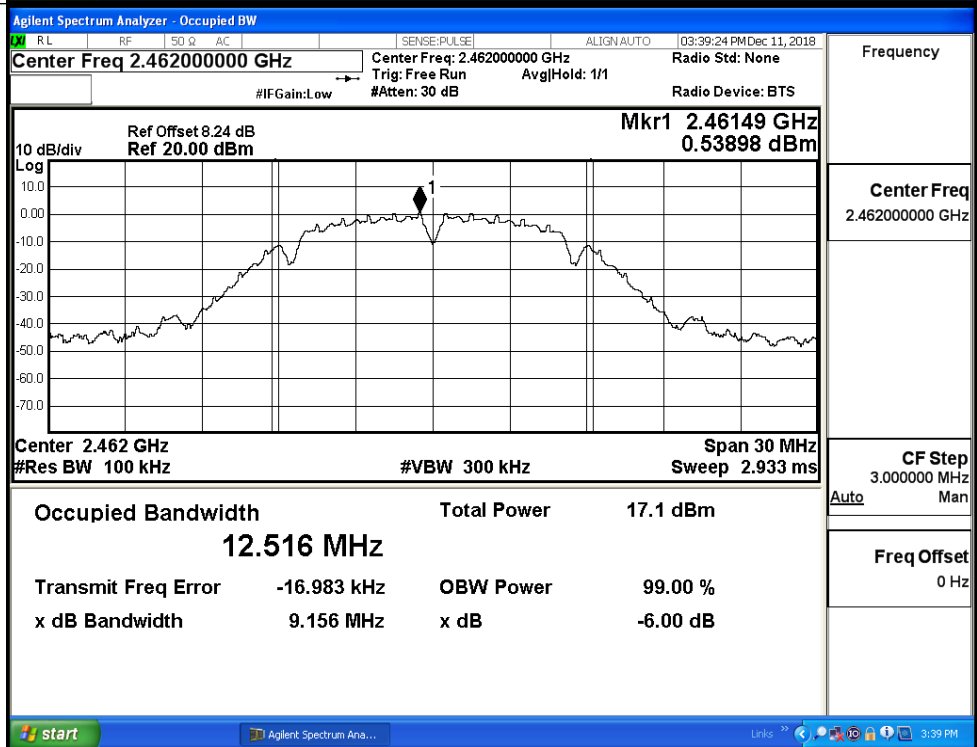
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.155	≥0.5	PASS
	MCH	9.154	≥0.5	PASS
	HCH	9.156	≥0.5	PASS
11G	LCH	15.47	≥0.5	PASS
	MCH	16.40	≥0.5	PASS
	HCH	16.42	≥0.5	PASS
11N20SISO	LCH	17.62	≥0.5	PASS
	MCH	17.63	≥0.5	PASS
	HCH	17.63	≥0.5	PASS
11N40SISO	LCH	36.36	≥0.5	PASS
	MCH	36.37	≥0.5	PASS
	HCH	36.38	≥0.5	PASS



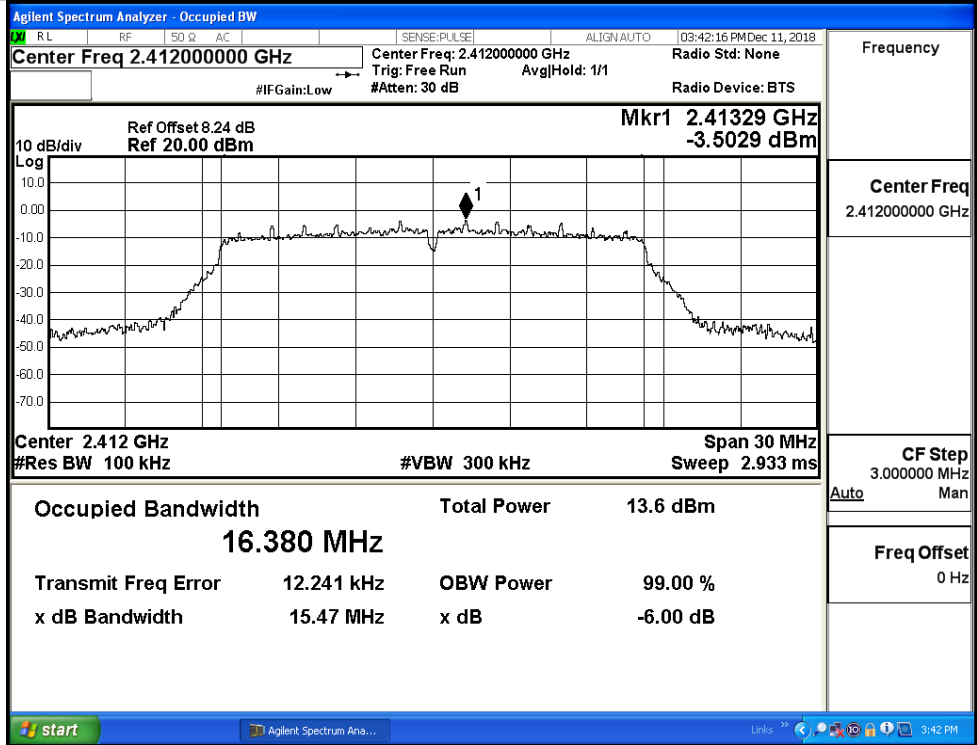
11B/MCH



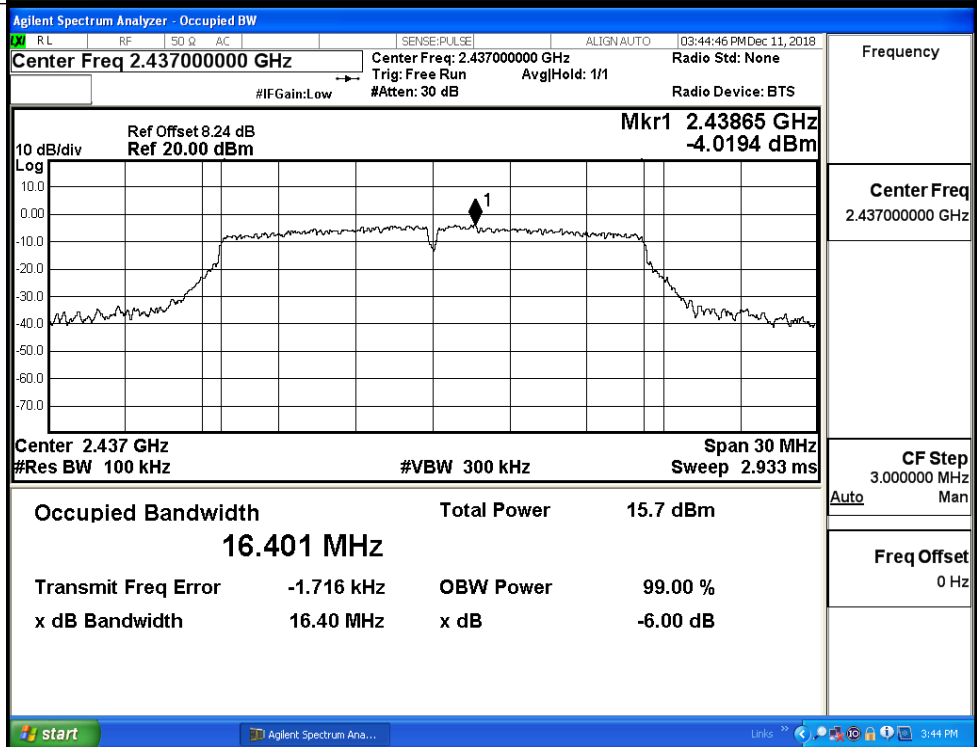
11B/HCH



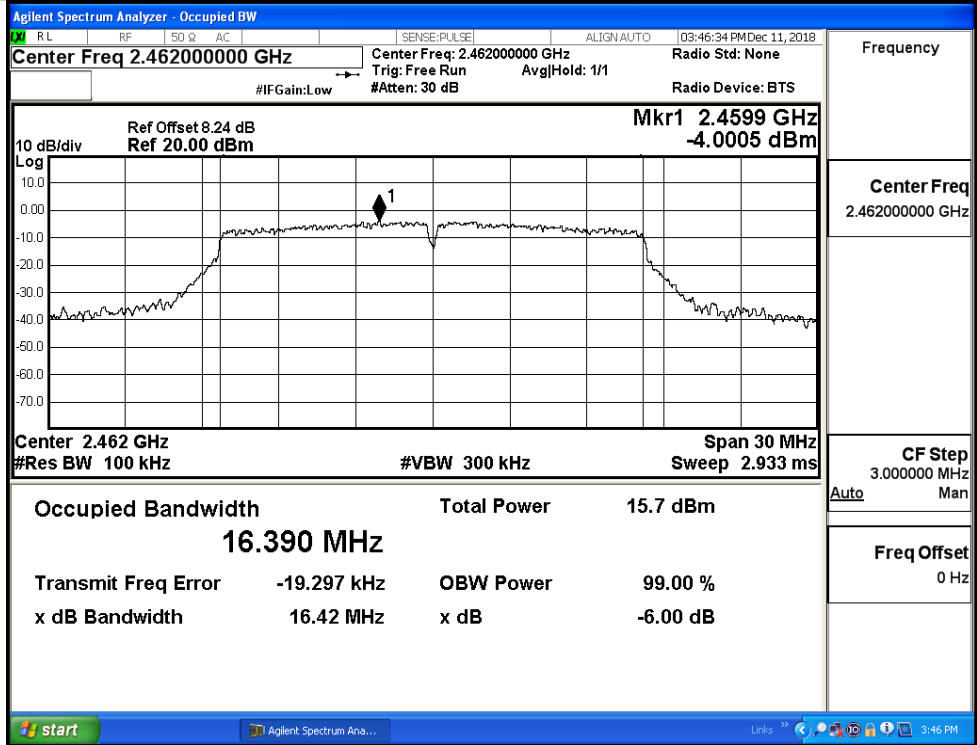
11G/LCH



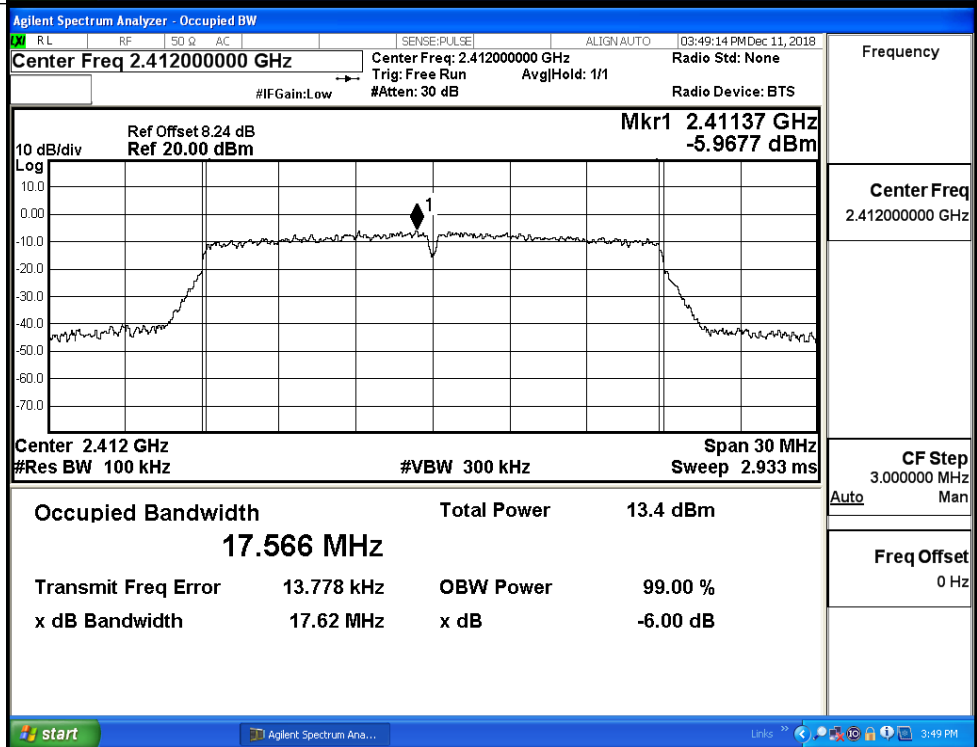
11G/MCH



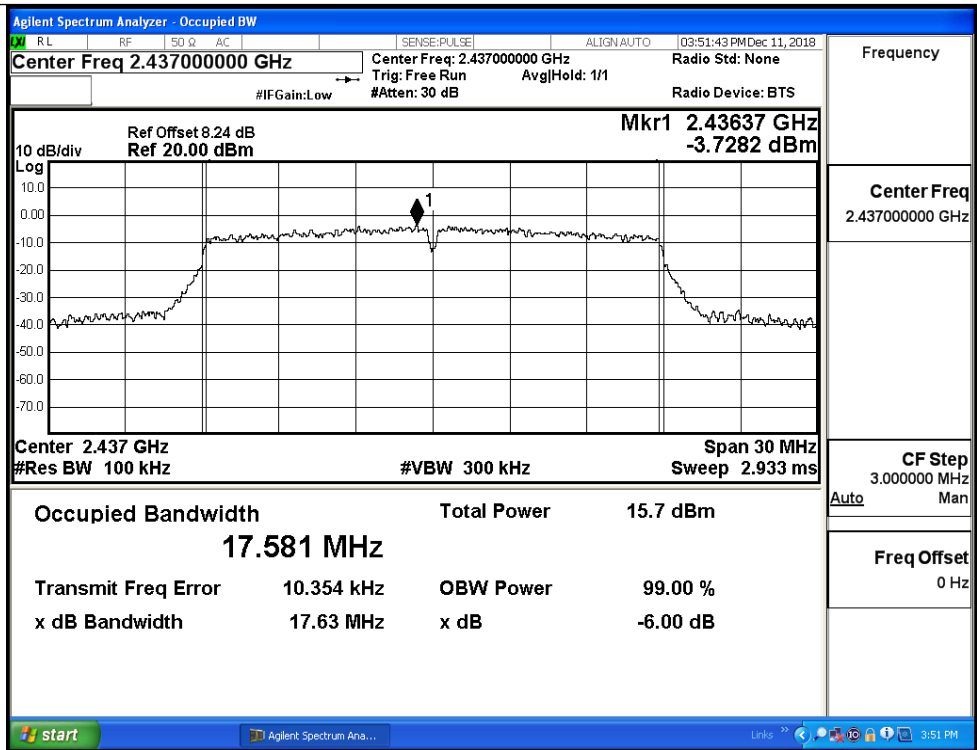
11G/HCH



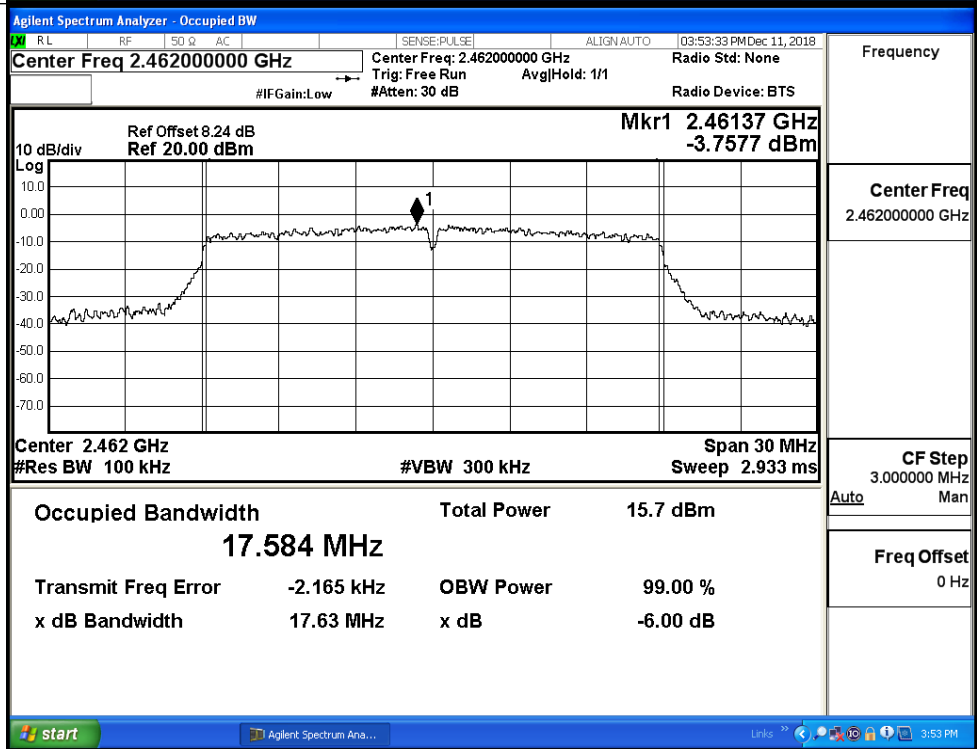
11N20SISO/LCH



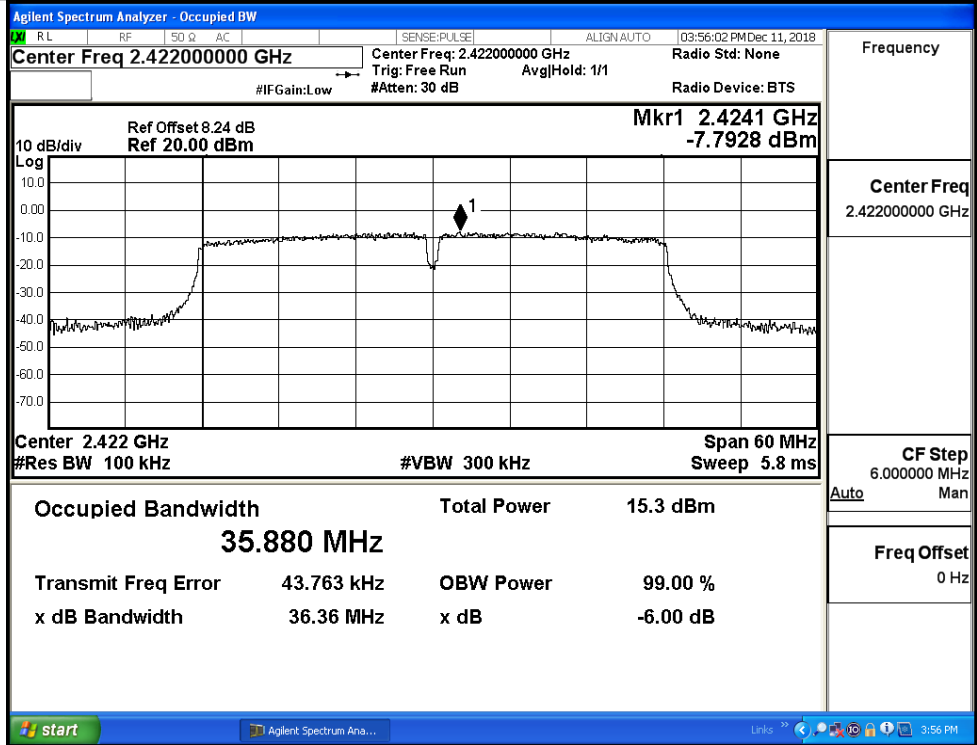
11N20SISO/MCH



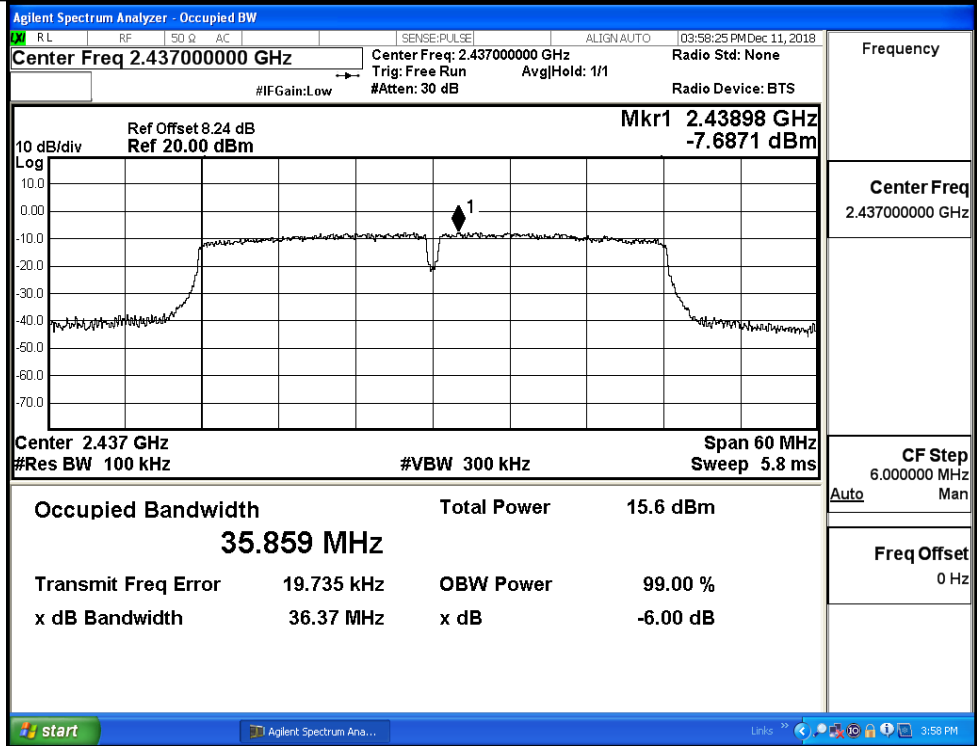
11N20SISO/HCH



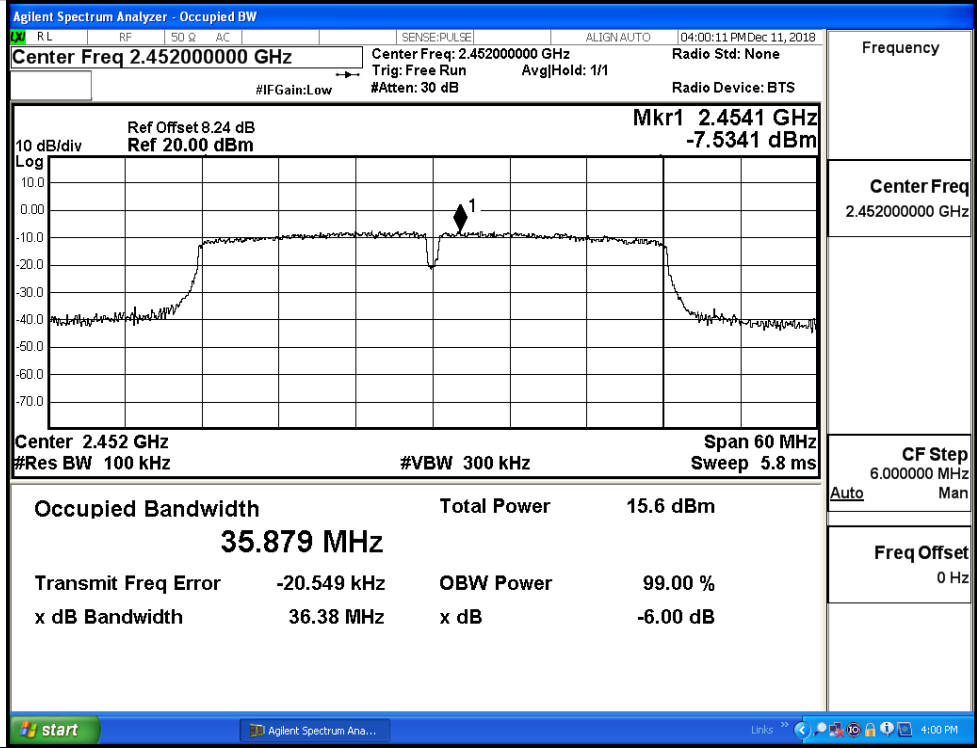
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



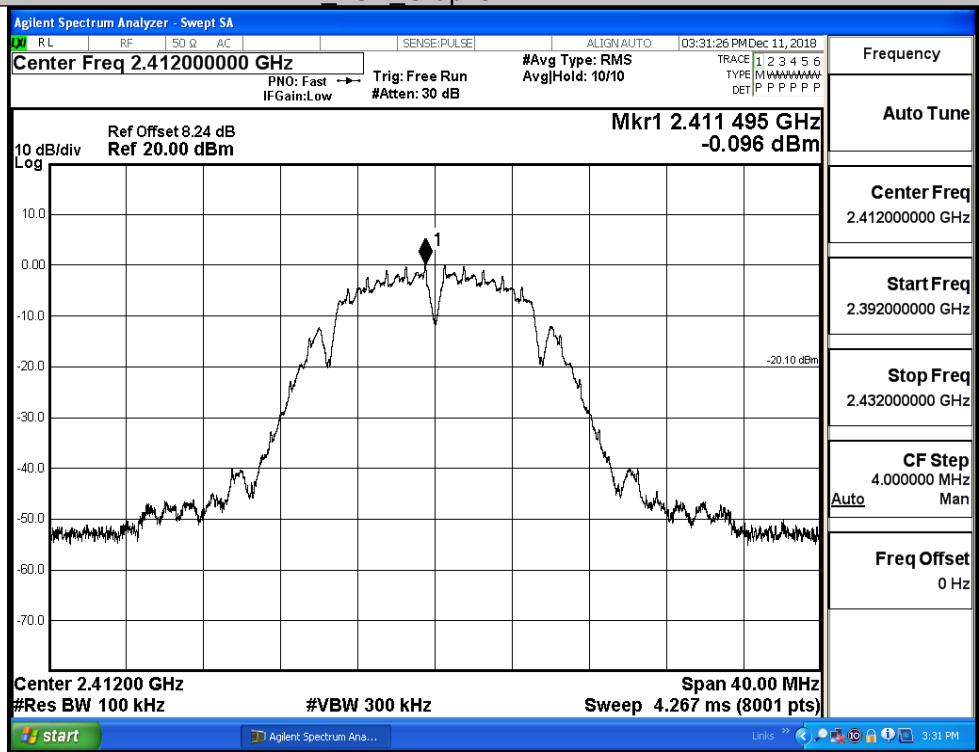
C.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic
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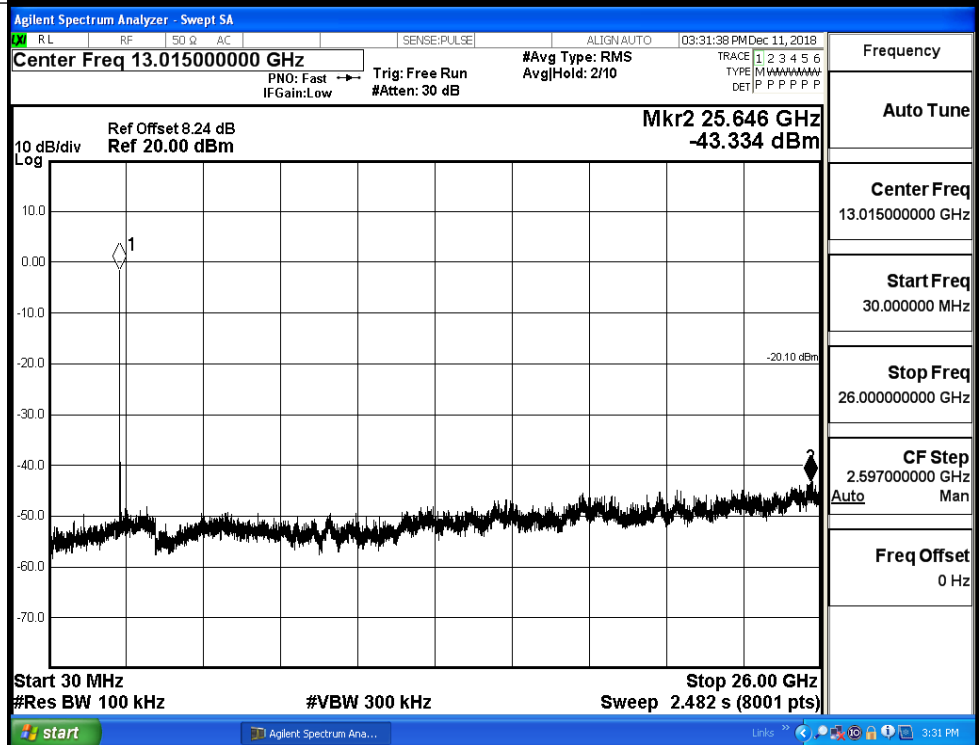
					t
11B	LCH	-0.096	-43.334	-20.096	PASS
	MCH	0.416	-43.656	-19.584	PASS
	HCH	0.481	-43.499	-19.519	PASS
11G	LCH	-3.276	-43.279	-23.276	PASS
	MCH	-4.195	-41.248	-24.195	PASS
	HCH	-4.146	-43.285	-24.146	PASS
11N20 SISO	LCH	-6.139	-43.100	-26.139	PASS
	MCH	-4.017	-43.980	-24.017	PASS
	HCH	-3.896	-43.317	-23.896	PASS
11N40 SISO	LCH	-8.222	-44.292	-28.222	PASS
	MCH	-7.833	-42.707	-27.833	PASS
	HCH	-7.655	-43.013	-27.655	PASS

11B LCH Graphs

Pref/11B/LCH

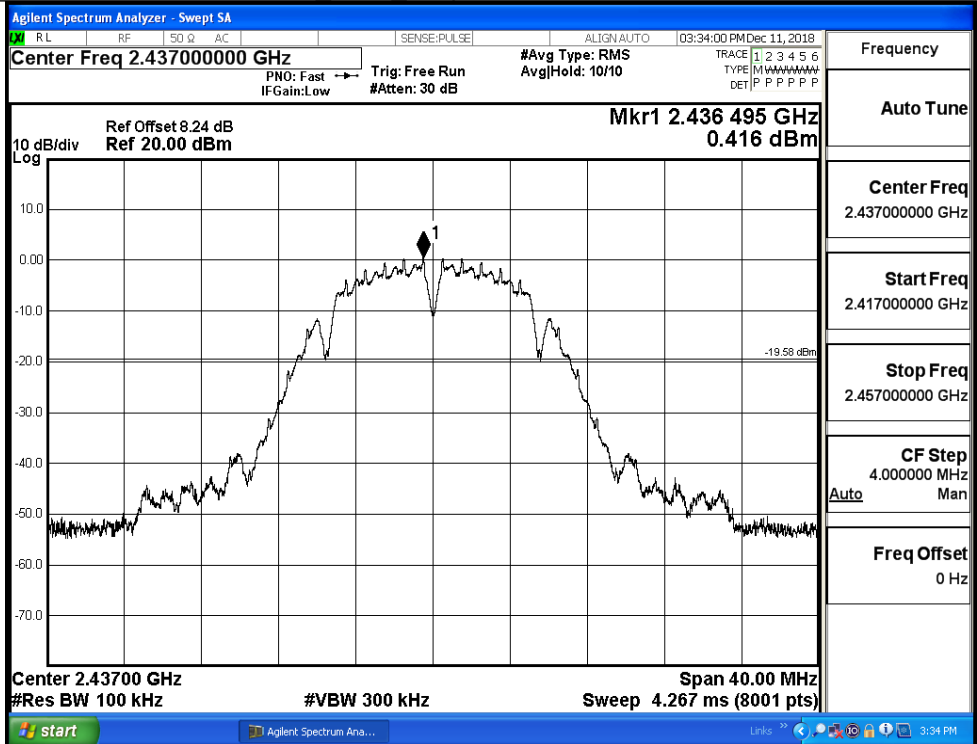


Puw/11B/LCH

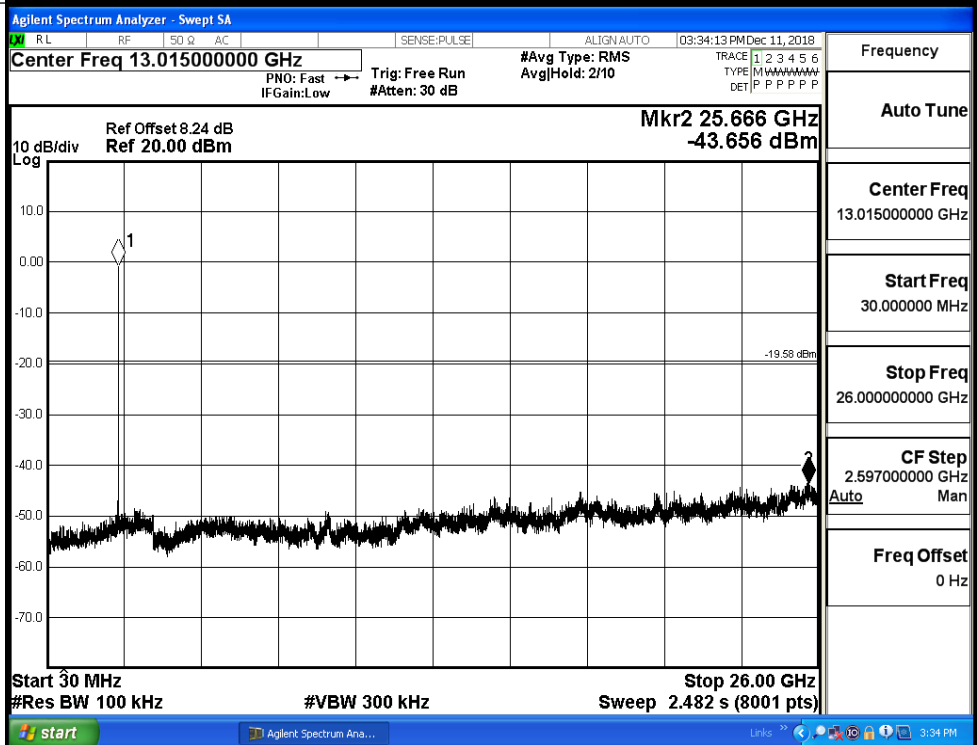


11B MCH Graphs

Pref/11B/MCH

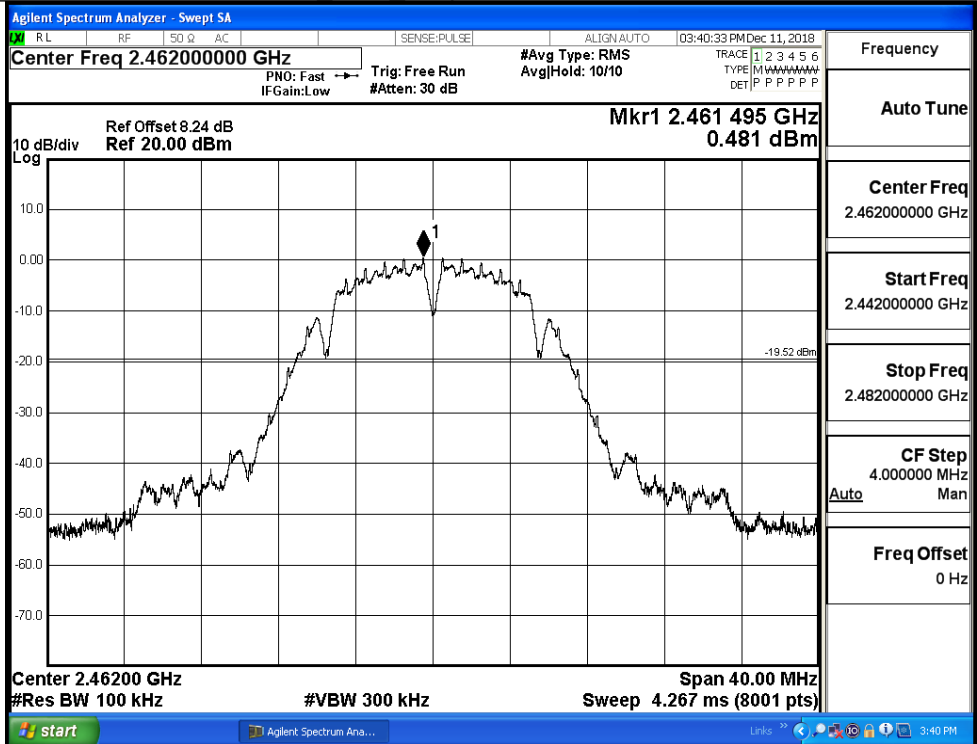


Puw/11B/MCH

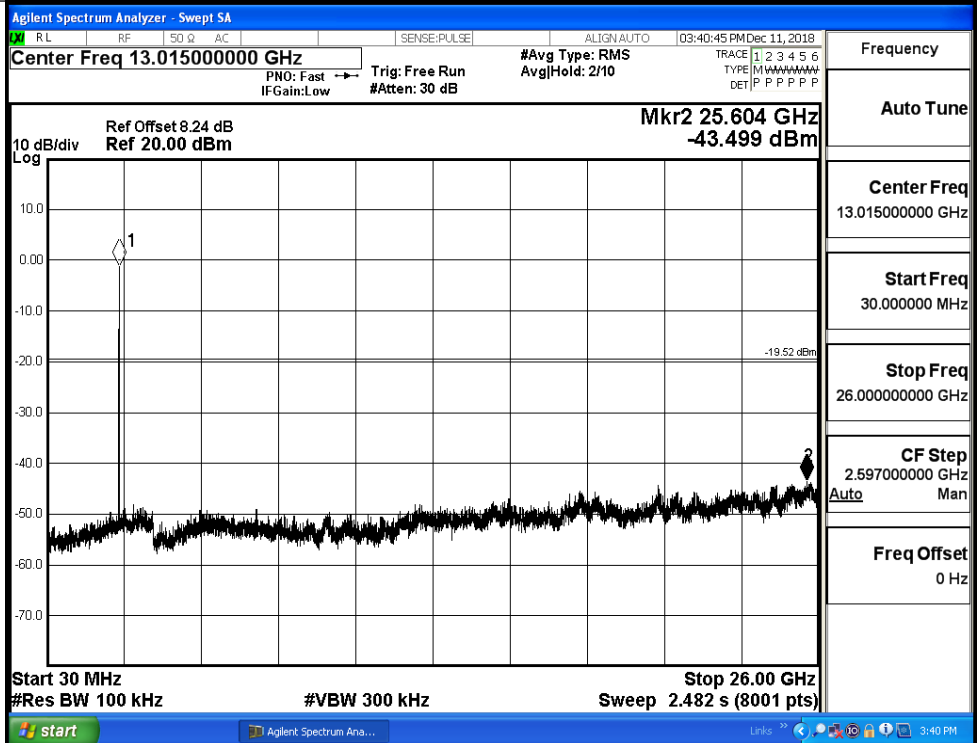


11B HCH Graphs

Pref/11B/HCH

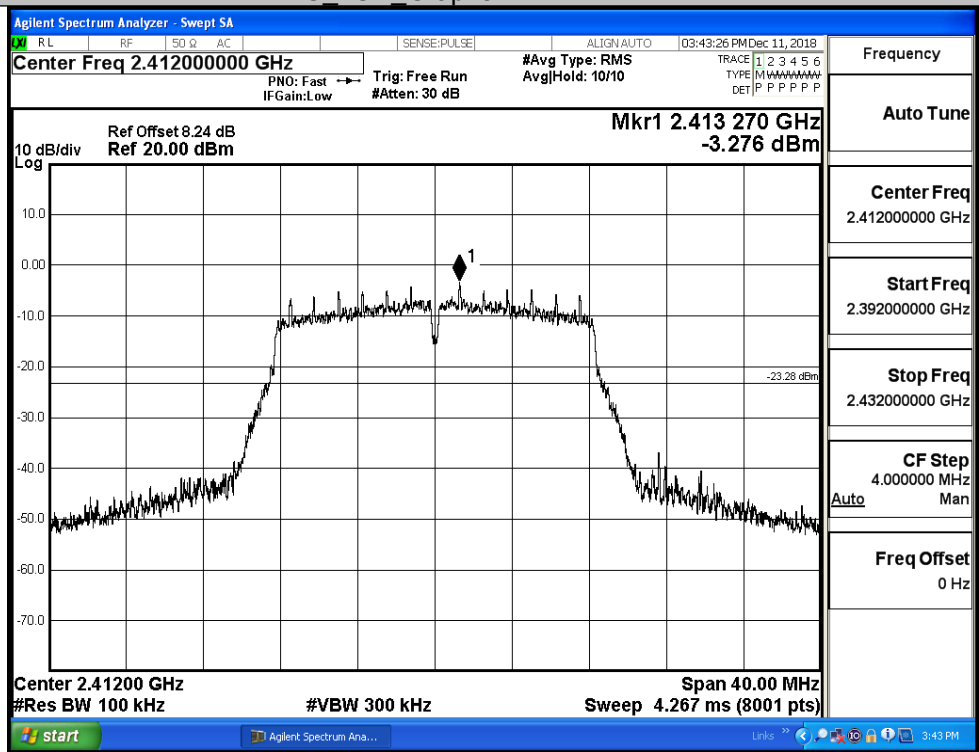


Puw/11B/HCH

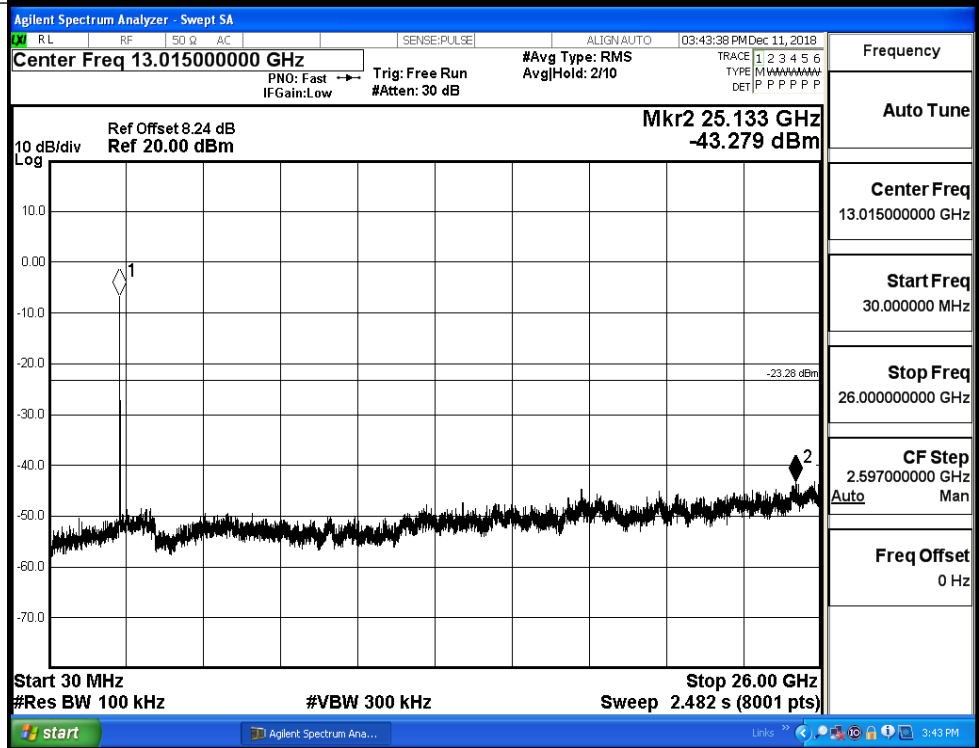


11G LCH Graphs

Pref/11G/LCH

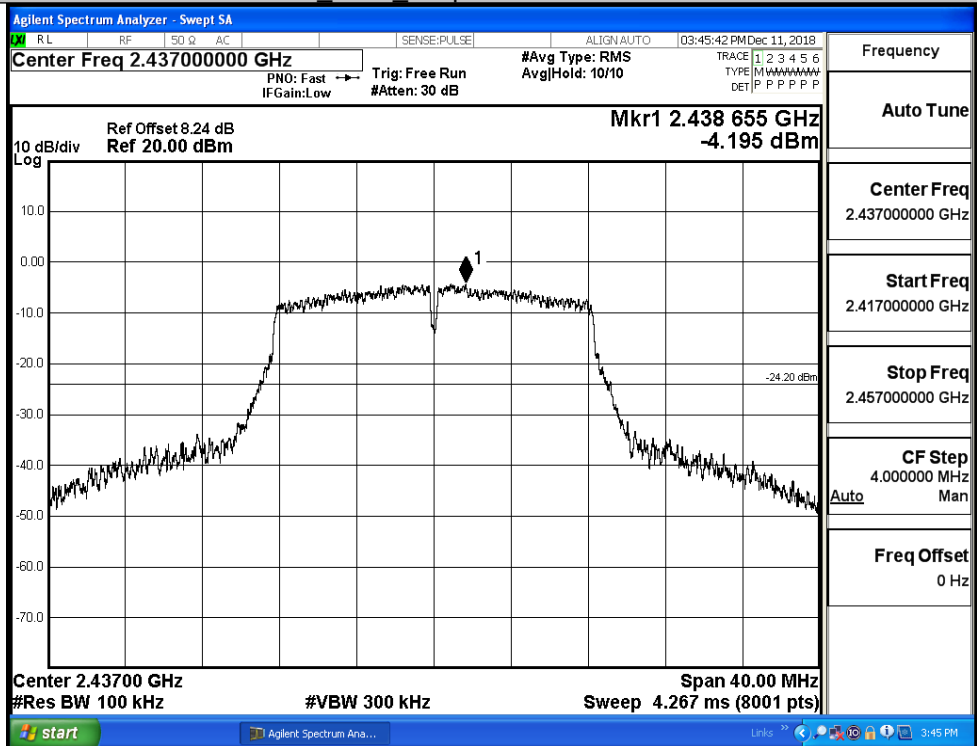


Puw/11G/LCH

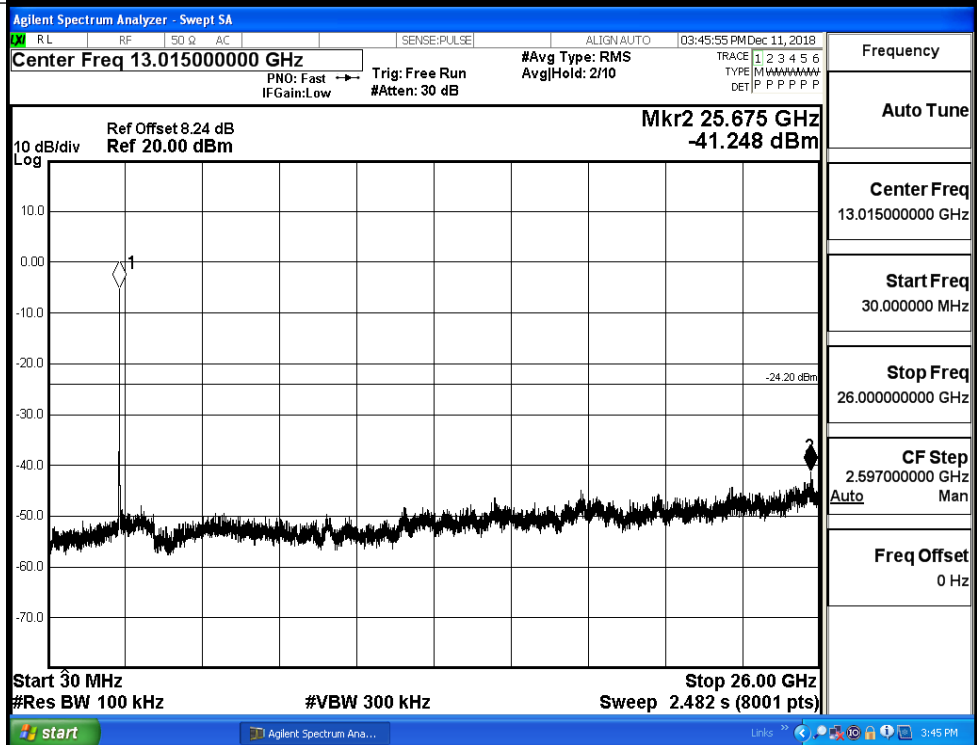


11G MCH Graphs

Pref/11G/MCH

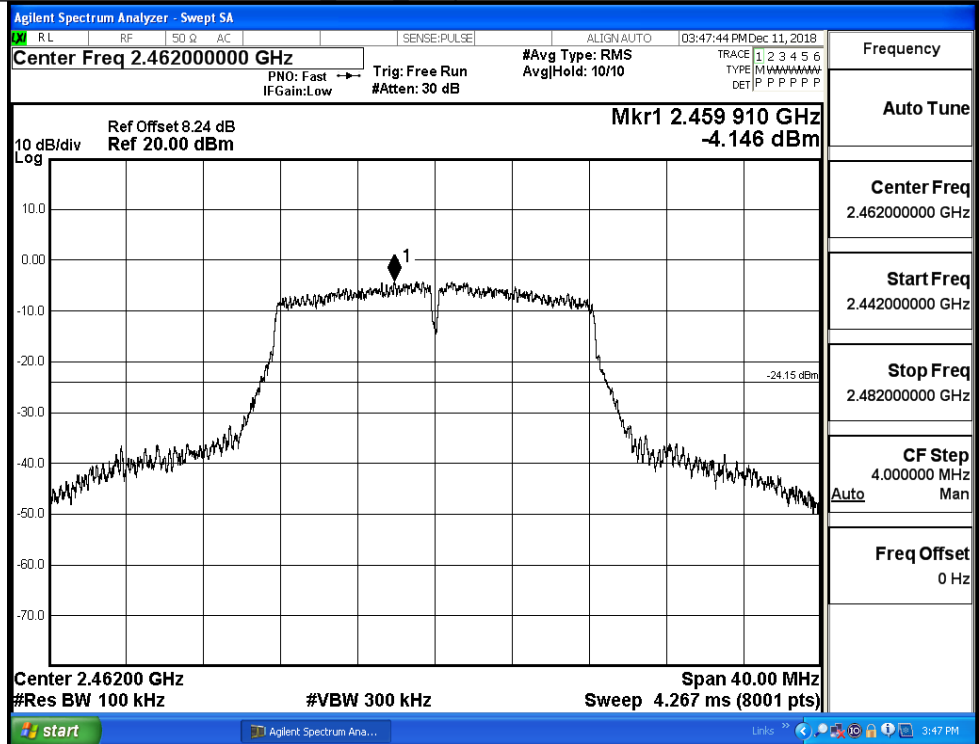


Puw/11G/MCH

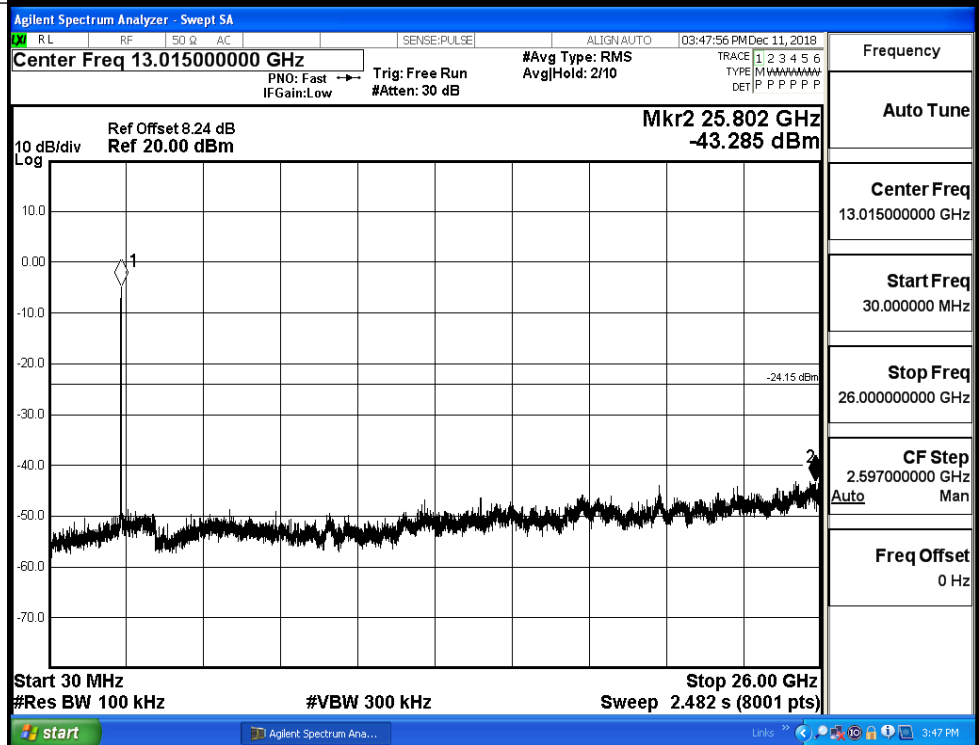


11G HCH Graphs

Pref/11G/HCH

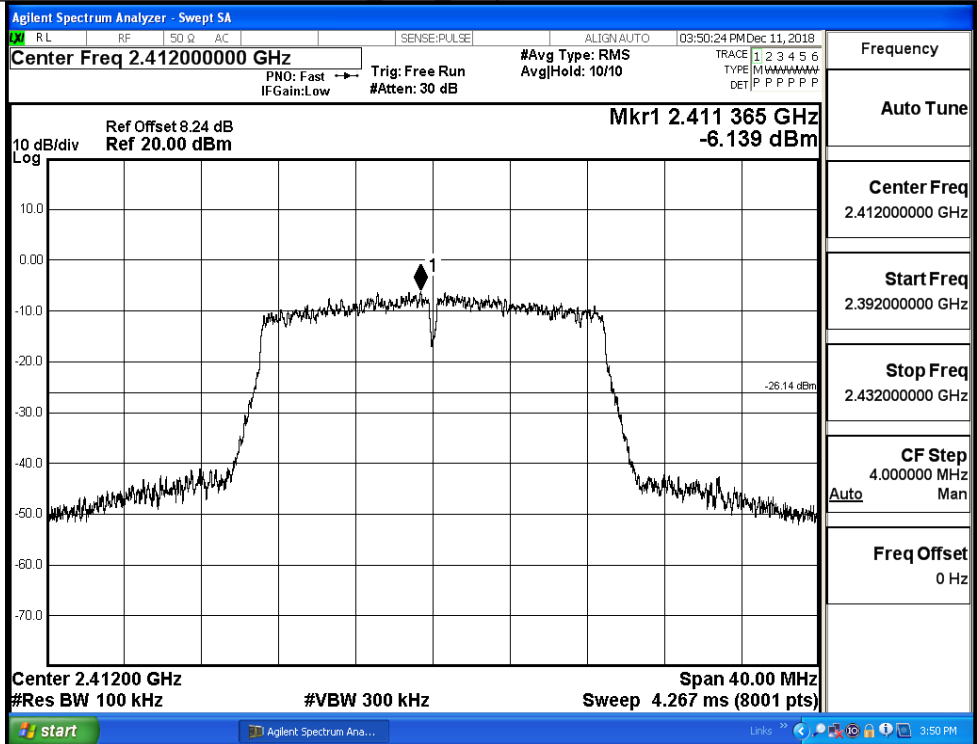


Puw/11G/HCH



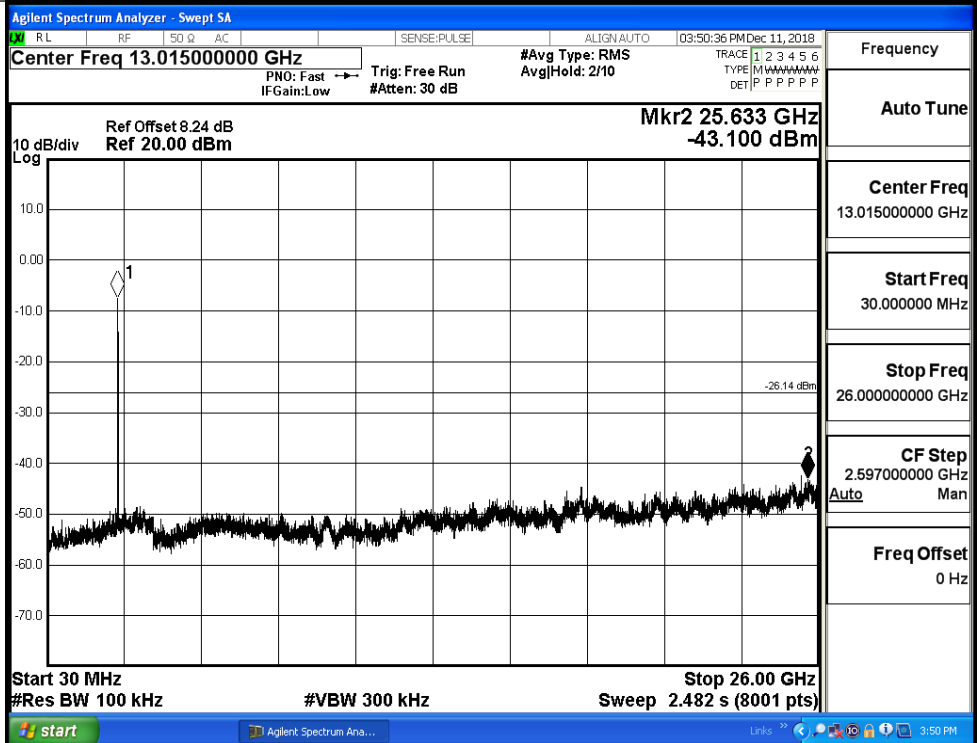
11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH



Frequency	
Auto Tune	
Center Freq	2.412000000 GHz
Start Freq	2.392000000 GHz
Stop Freq	2.432000000 GHz
CF Step	4.000000 MHz Auto Man
Freq Offset	0 Hz

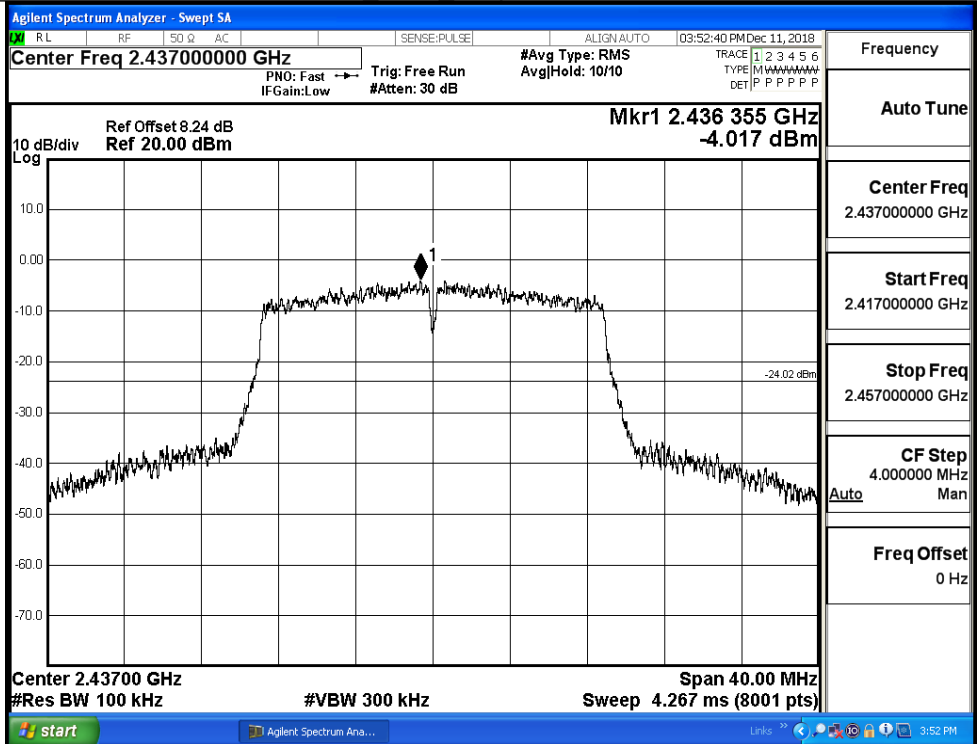
Puw/11N20
SISO/LCH



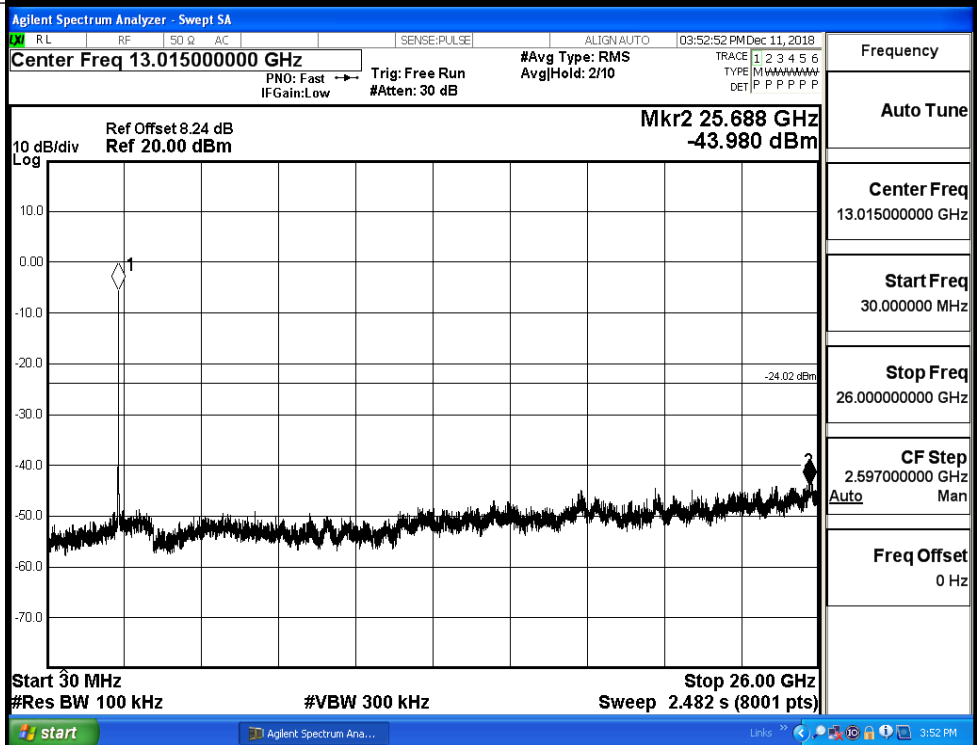
Frequency	
Auto Tune	
Center Freq	13.015000000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.000000000 GHz
CF Step	2.597000000 GHz Auto Man
Freq Offset	0 Hz

11N20SISO MCH Graphs

Pref/11N20
SISO/MCH

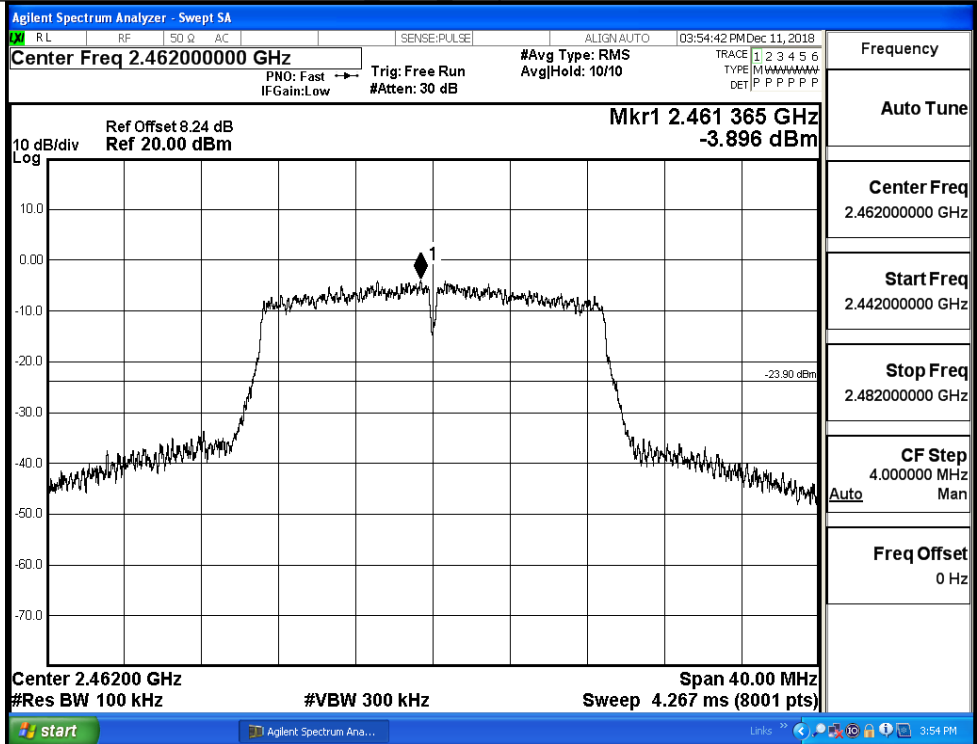


Puw/11N20
SISO/MCH



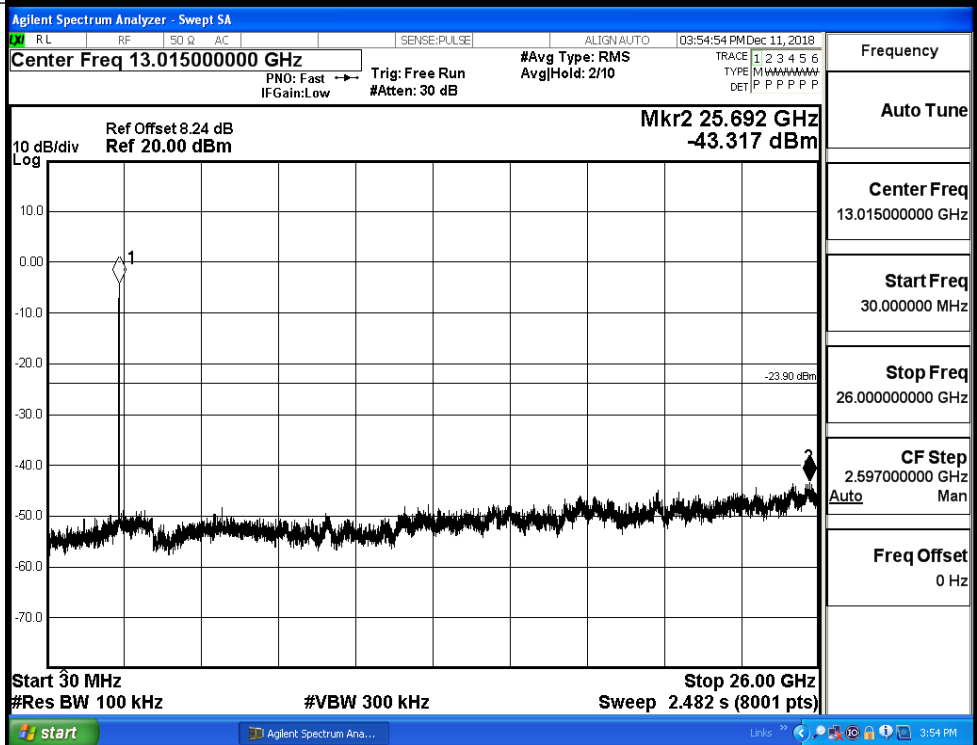
11N20SISO HCH Graphs

Pref/11N20
SISO/HCH



Frequency	
Auto Tune	
Center Freq	2.462000000 GHz
Start Freq	2.442000000 GHz
Stop Freq	2.482000000 GHz
CF Step	4.000000 MHz Auto Man
Freq Offset	0 Hz

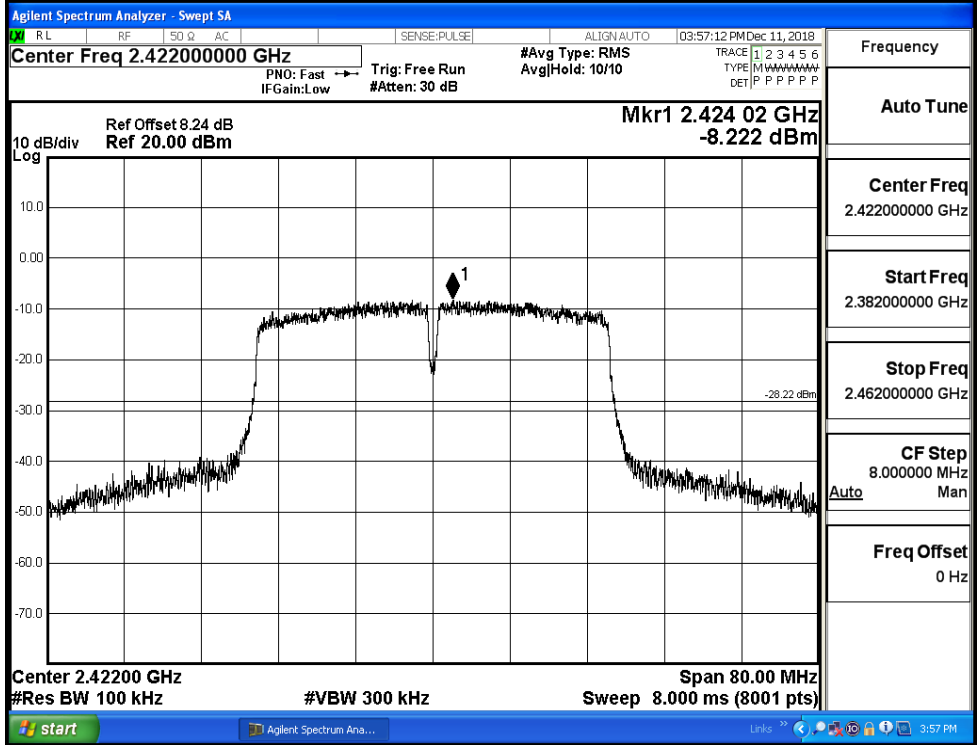
Puw/11N20
SISO/HCH



Frequency	
Auto Tune	
Center Freq	13.015000000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.000000000 GHz
CF Step	2.597000000 GHz Auto Man
Freq Offset	0 Hz

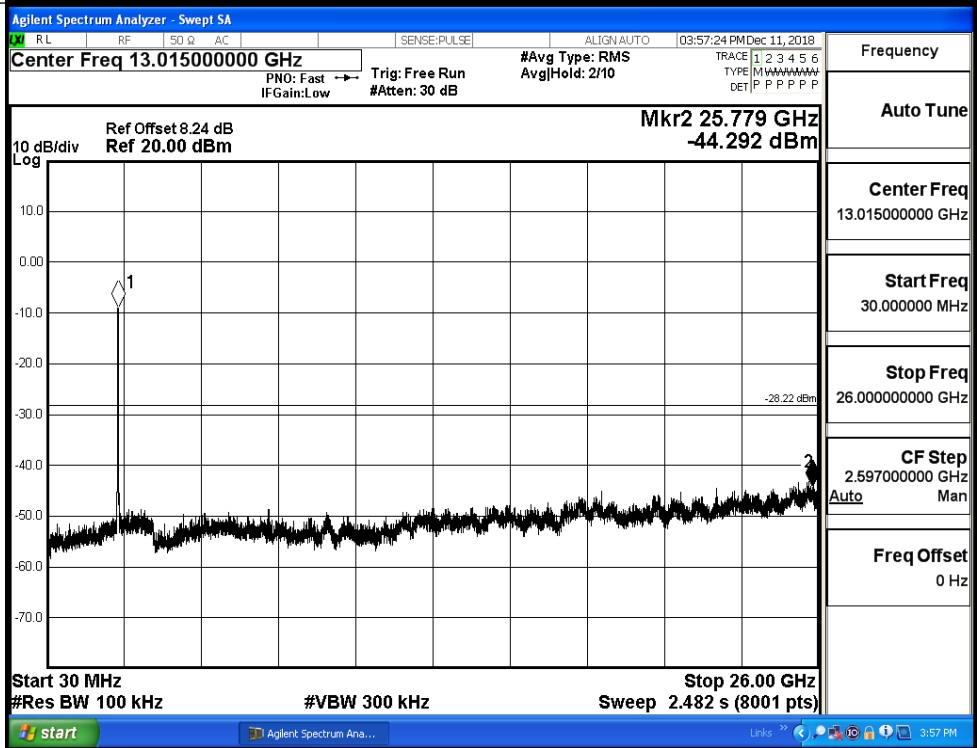
11N40SISO LCH Graphs

Pref/11N40
SISO/LCH



Frequency
Auto Tune
Center Freq 2.422000000 GHz
Start Freq 2.382000000 GHz
Stop Freq 2.462000000 GHz
CF Step 8.000000 MHz Auto Man
Freq Offset 0 Hz

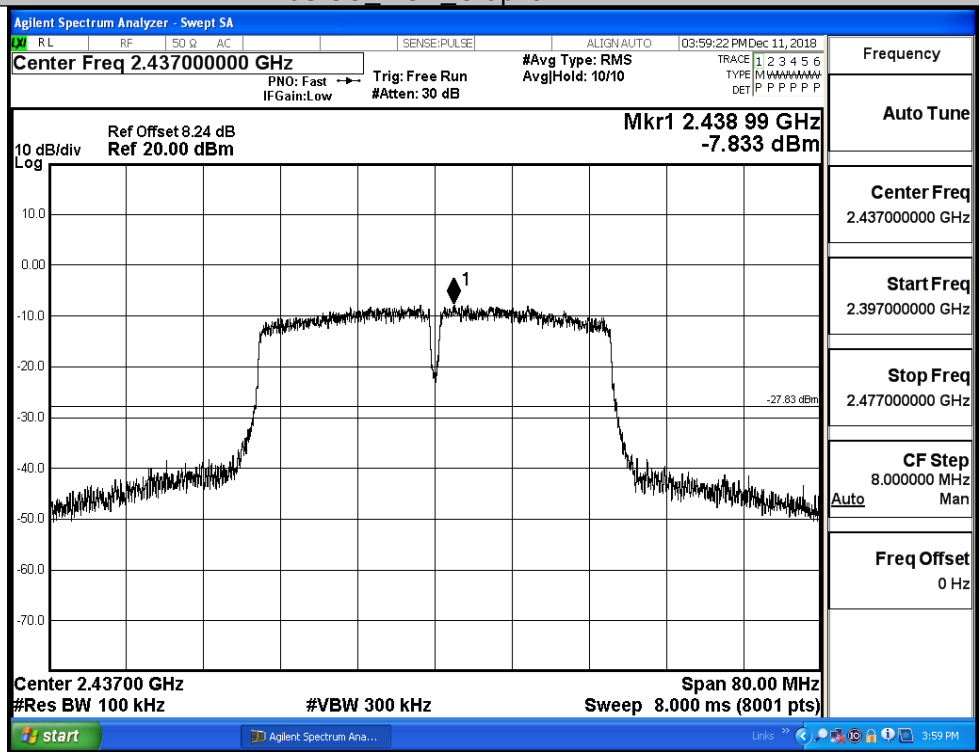
Puw/11N40
SISO/LCH



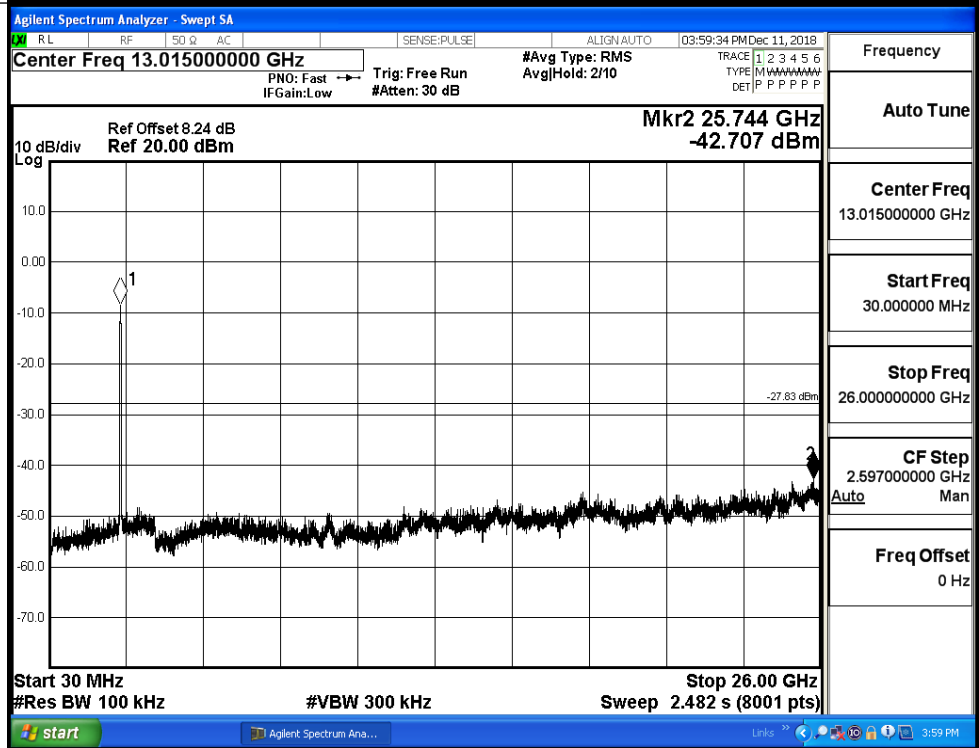
Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Auto Man
Freq Offset 0 Hz

11N40SISO MCH Graphs

Pref/11N40
SISO/MCH

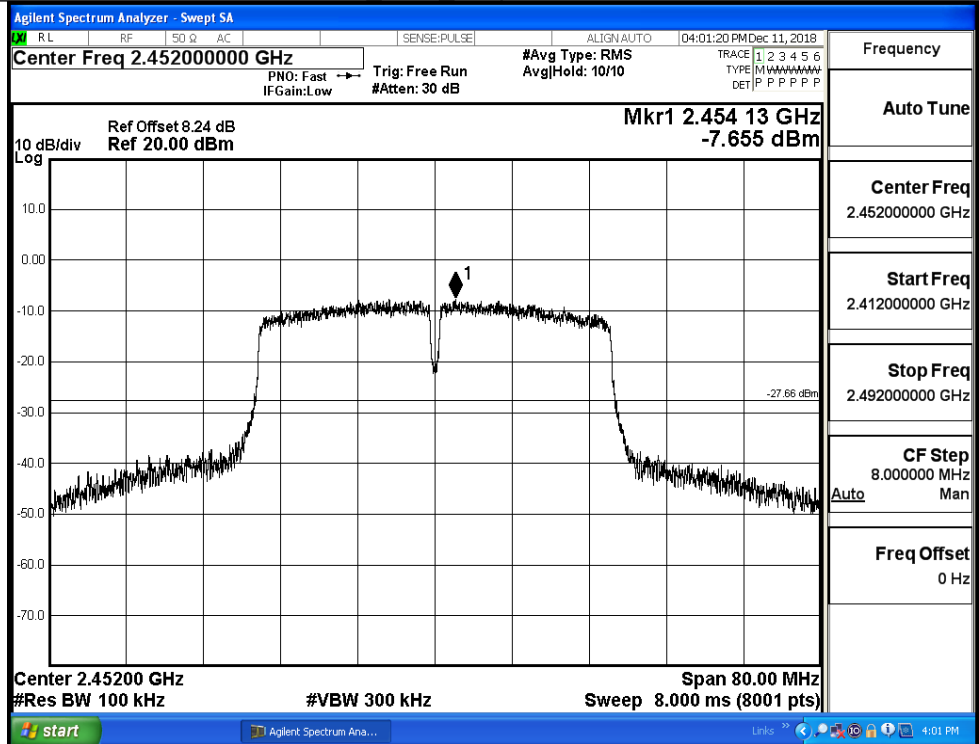


Puw/11N40
SISO/MCH

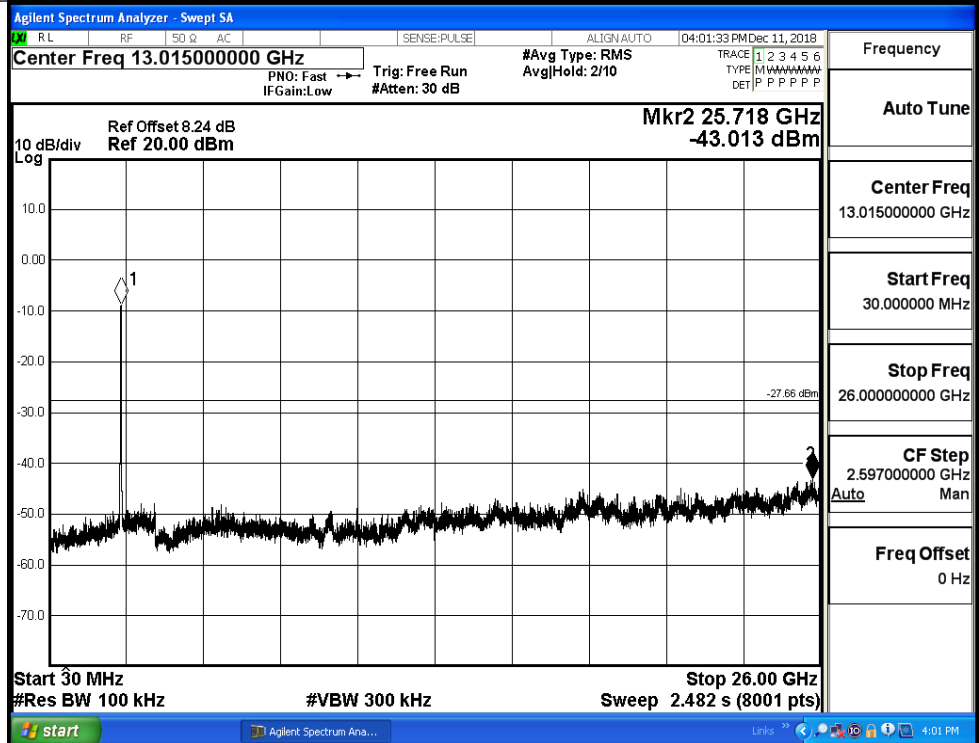


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH

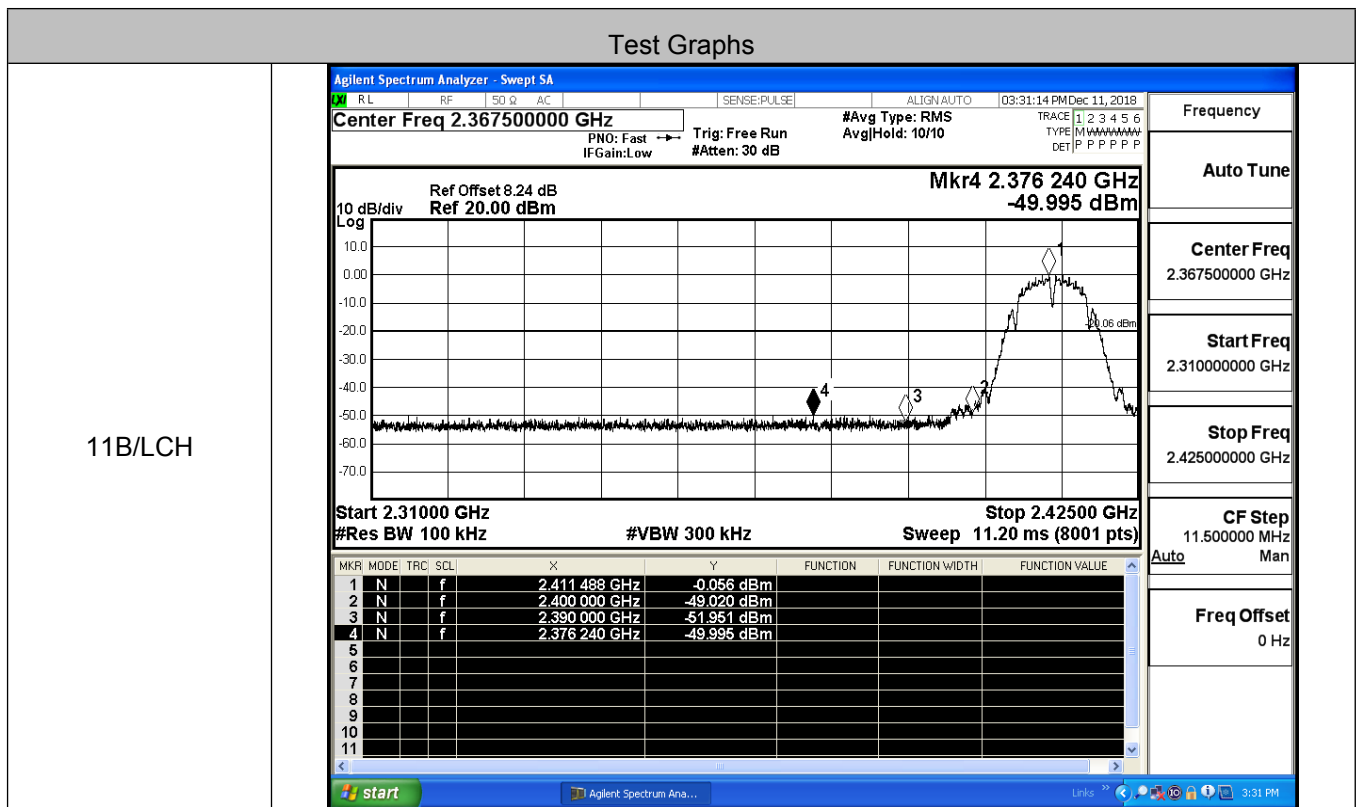


Puw/11N40
SISO/HCH

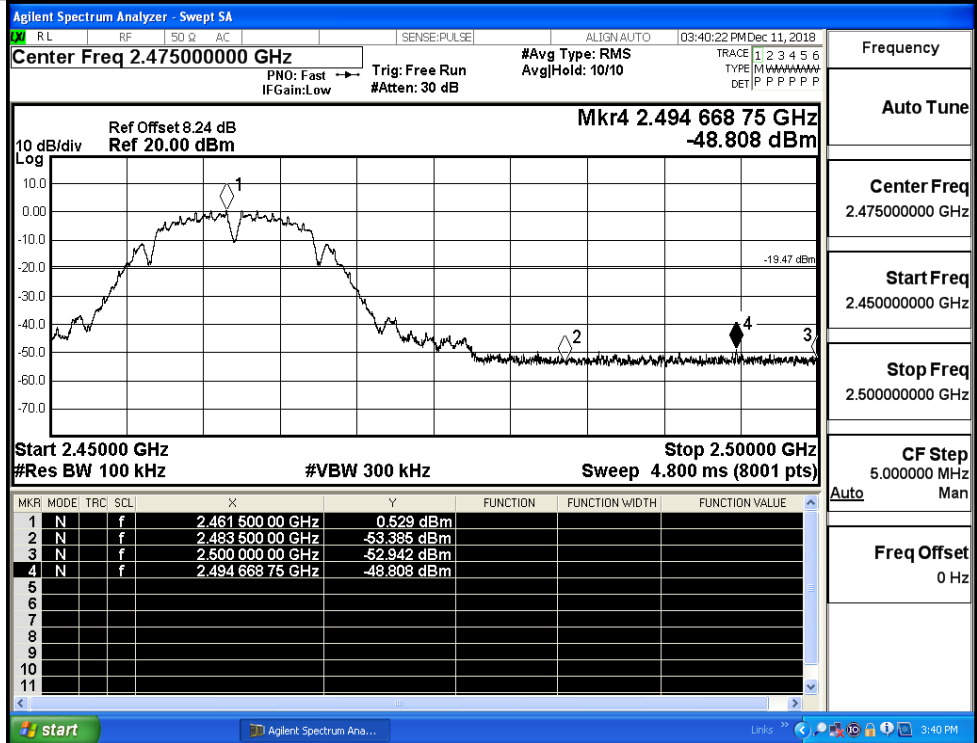


C.6 Band-edge for RF Conducted Emissions

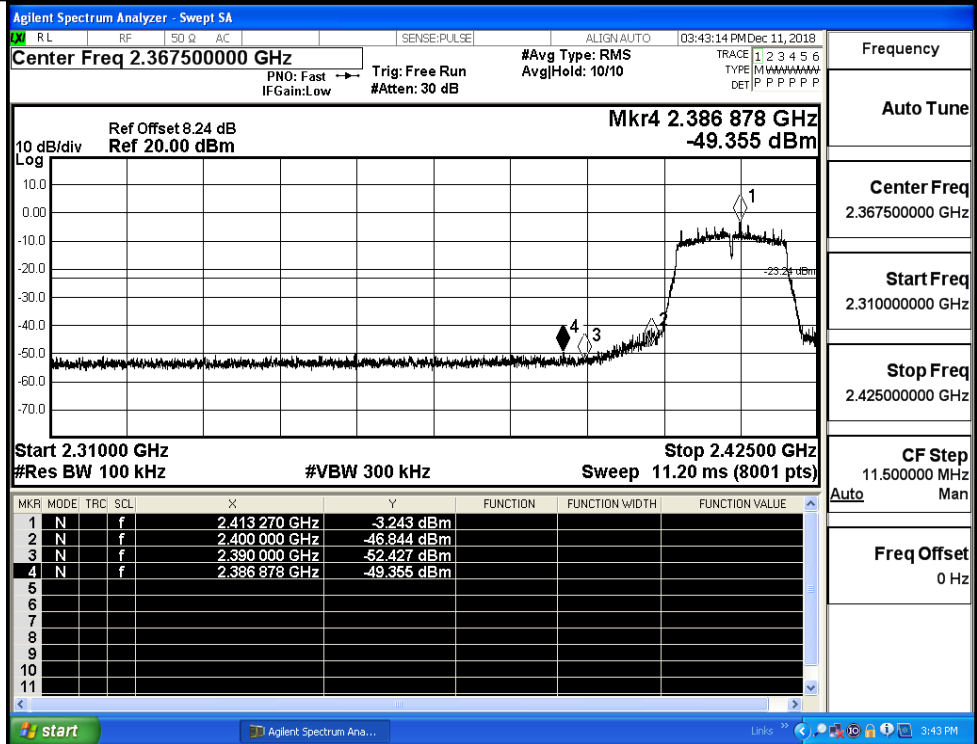
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.056	-49.995	-20.06	PASS
	HCH	0.529	-48.808	-19.47	PASS
11G	LCH	-3.243	-49.355	-23.24	PASS
	HCH	-4.087	-48.398	-24.09	PASS
11N20SISO	LCH	-6.183	-48.944	-26.18	PASS
	HCH	-4.004	-46.362	-24	PASS
11N40SISO	LCH	-7.699	-43.498	-27.7	PASS
	HCH	-7.677	-41.891	-27.68	PASS



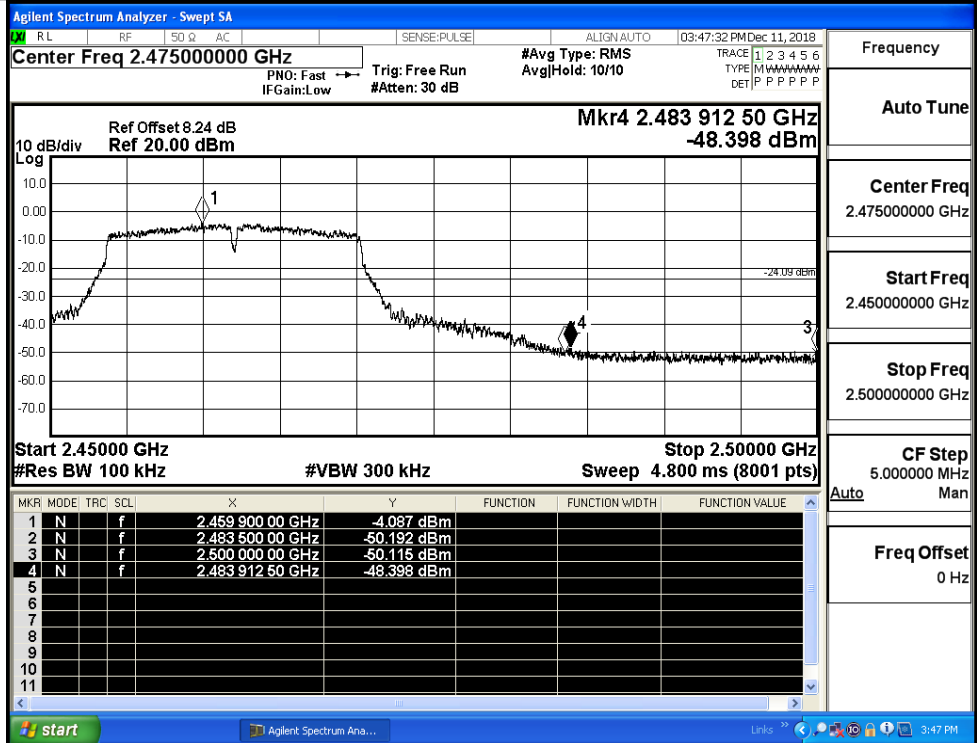
11B/HCH



11G/LCH

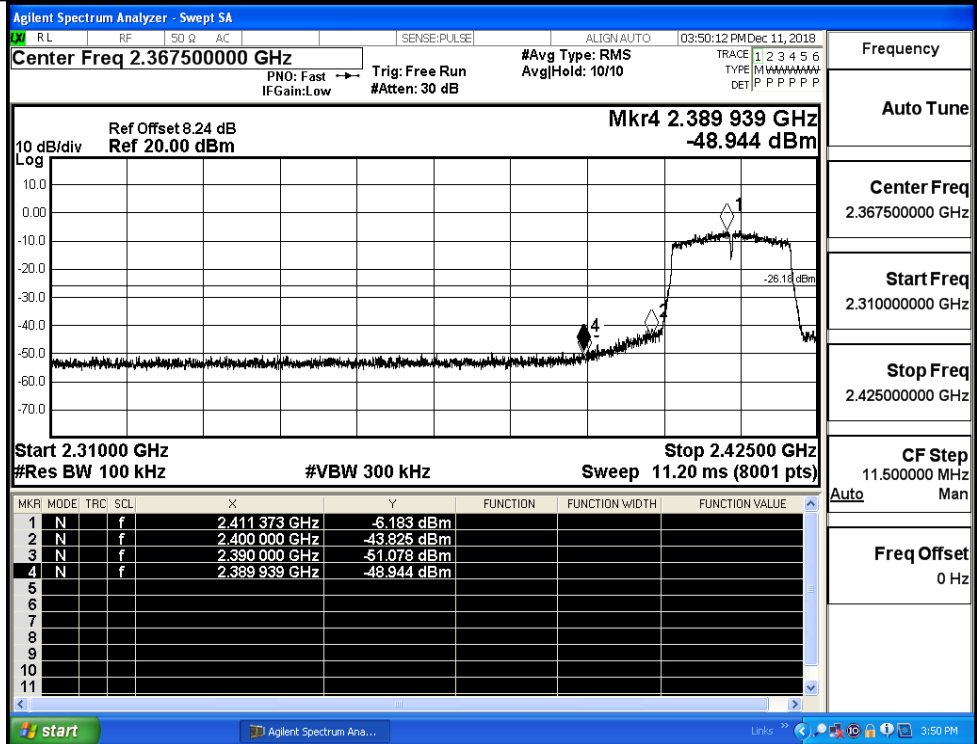


11G/HCH



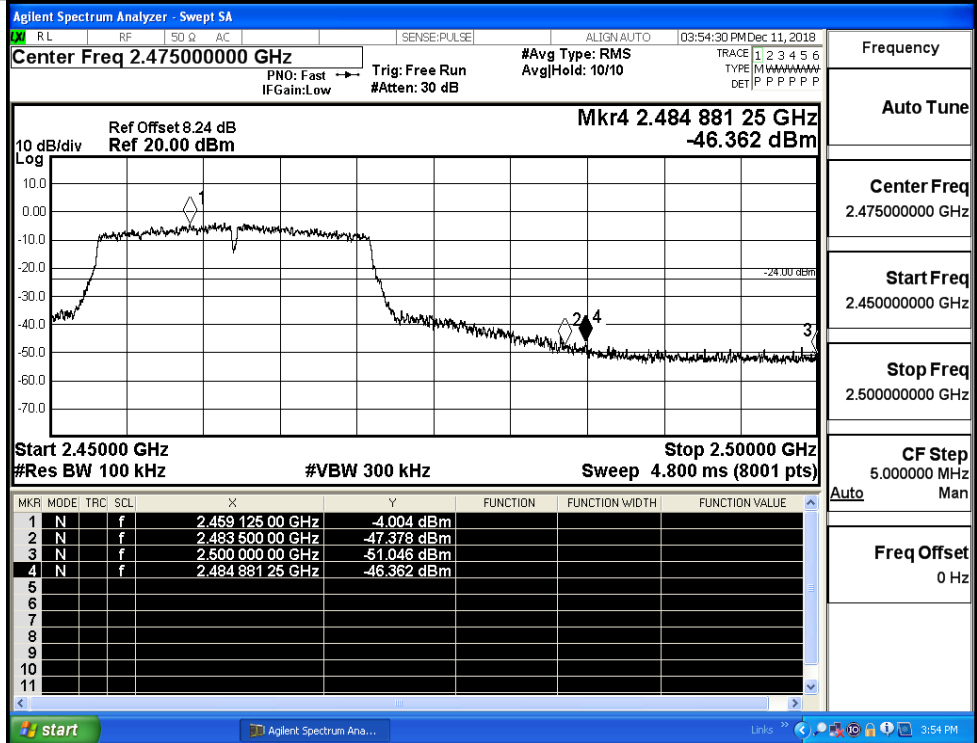
Frequency
Auto Tune
Center Freq
2.475000000 GHz
Start Freq
2.450000000 GHz
Stop Freq
2.500000000 GHz
CF Step
5.000000 MHz
Auto Man
Freq Offset
0 Hz

11N20SISO/LCH



Frequency
Auto Tune
Center Freq
2.367500000 GHz
Start Freq
2.310000000 GHz
Stop Freq
2.425000000 GHz
CF Step
11.500000 MHz
Auto Man
Freq Offset
0 Hz

11N20SISO/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

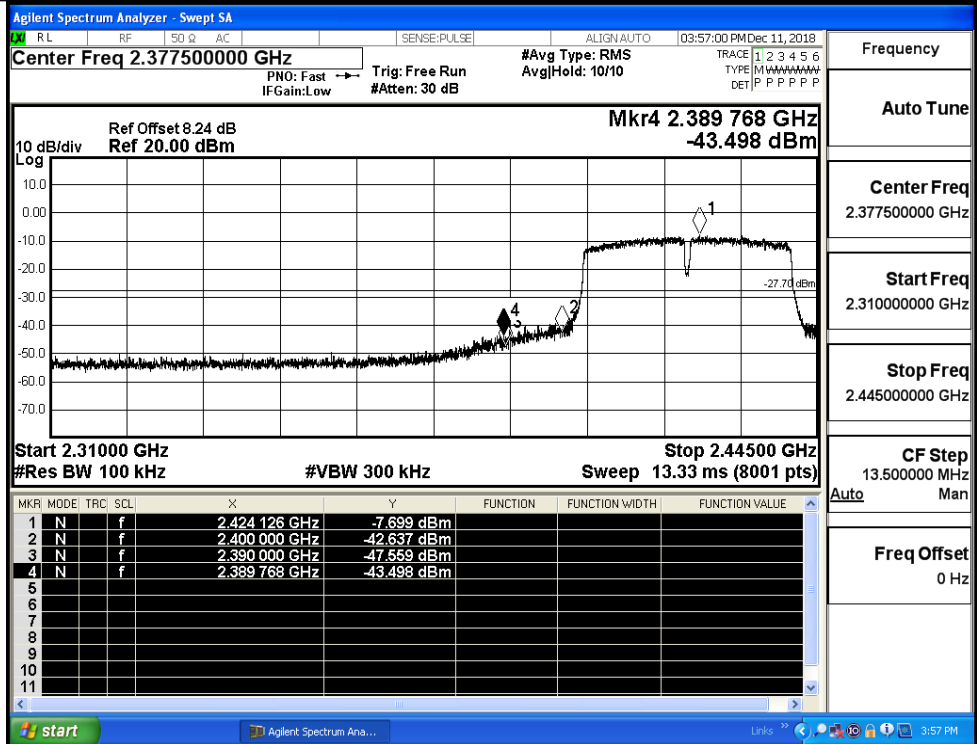
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz

Freq Offset
0 Hz

11N40SISO/LCH



Frequency

Auto Tune

Center Freq
2.377500000 GHz

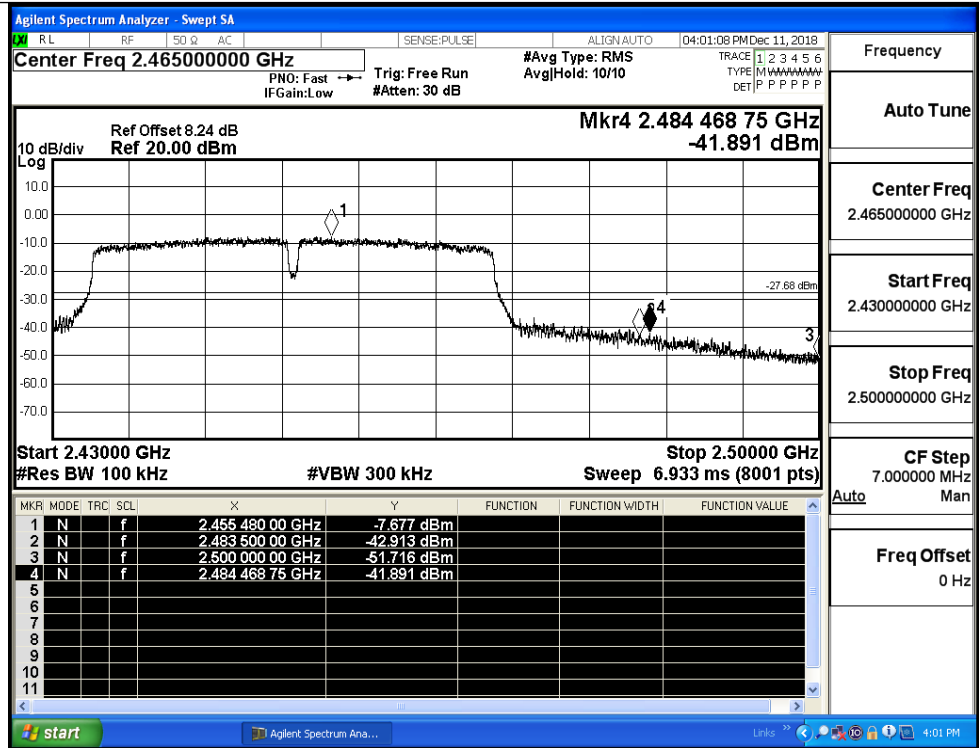
Start Freq
2.310000000 GHz

Stop Freq
2.445000000 GHz

CF Step
13.500000 MHz

Freq Offset
0 Hz

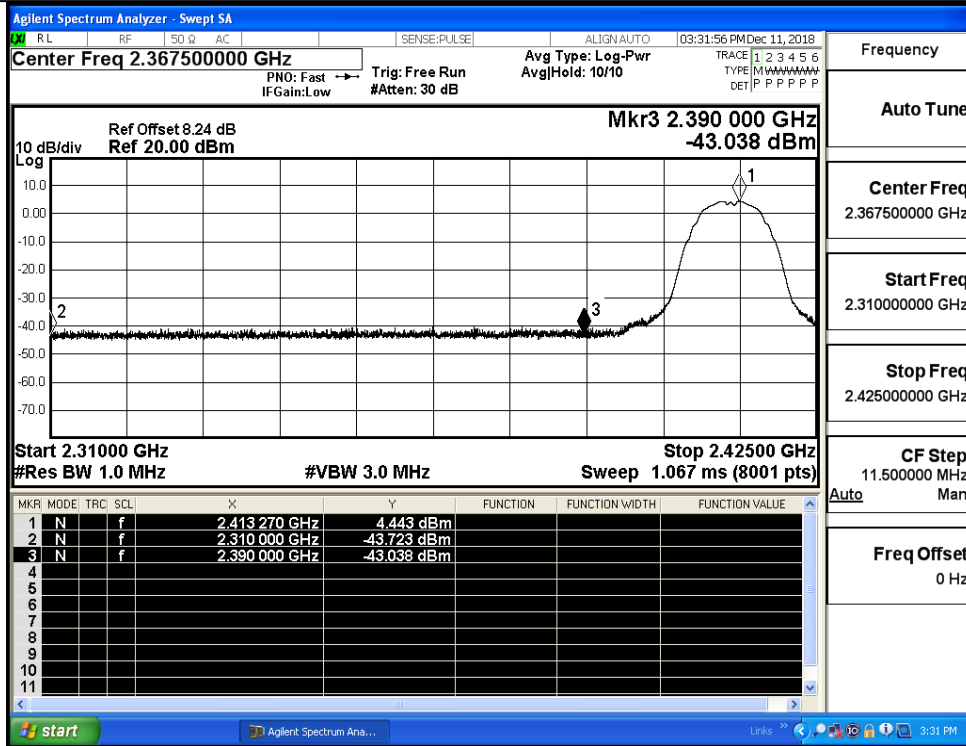
11N40SISO/HCH



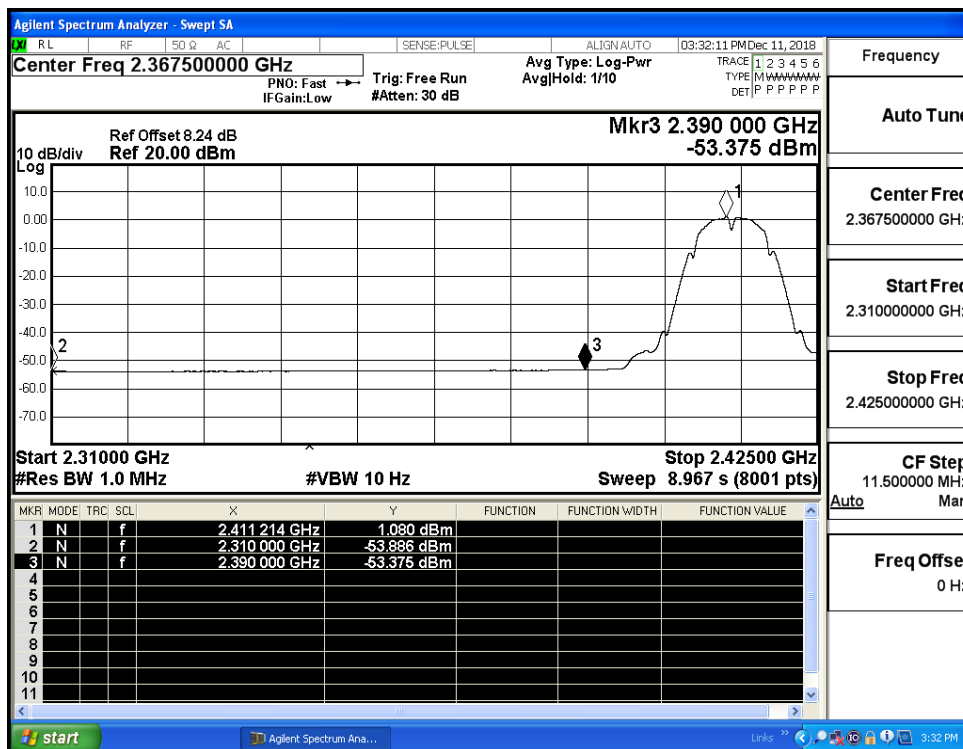
C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.72	0.0	0	51.51	PEAK	74	PASS
	2412	Ant1	2310.0	-53.89	0.0	0	41.34	AV	54	PASS
	2412	Ant1	2390.0	-43.04	0.0	0	52.19	PEAK	74	PASS
	2412	Ant1	2390.0	-53.38	0.0	0	41.85	AV	54	PASS
	2462	Ant1	2483.5	-42.50	0.0	0	52.73	PEAK	74	PASS
	2462	Ant1	2483.5	-53.00	0.0	0	42.23	AV	54	PASS
	2462	Ant1	2500.0	-41.46	0.0	0	53.77	PEAK	74	PASS
	2462	Ant1	2500.0	-53.06	0.0	0	42.17	AV	54	PASS
11G	2412	Ant1	2310.0	-43.27	0.0	0	51.96	PEAK	74	PASS
	2412	Ant1	2310.0	-53.83	0.0	0	41.40	AV	54	PASS
	2412	Ant1	2390.0	-41.28	0.0	0	53.95	PEAK	74	PASS
	2412	Ant1	2390.0	-52.64	0.0	0	42.59	AV	54	PASS
	2462	Ant1	2483.5	-37.93	0.0	0	57.30	PEAK	74	PASS
	2462	Ant1	2483.5	-50.26	0.0	0	44.97	AV	54	PASS
	2462	Ant1	2500.0	-42.60	0.0	0	52.63	PEAK	74	PASS
	2462	Ant1	2500.0	-52.43	0.0	0	42.80	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.98	0.0	0	51.25	PEAK	74	PASS
	2412	Ant1	2310.0	-53.84	0.0	0	41.39	AV	54	PASS
	2412	Ant1	2390.0	-39.11	0.0	0	56.12	PEAK	74	PASS
	2412	Ant1	2390.0	-51.99	0.0	0	43.24	AV	54	PASS
	2462	Ant1	2483.5	-33.65	0.0	0	61.58	PEAK	74	PASS
	2462	Ant1	2483.5	-49.11	0.0	0	46.12	AV	54	PASS
	2462	Ant1	2500.0	-42.27	0.0	0	52.96	PEAK	74	PASS
	2462	Ant1	2500.0	-52.39	0.0	0	42.84	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.03	0.0	0	53.20	PEAK	74	PASS
	2422	Ant1	2310.0	-53.83	0.0	0	41.40	AV	54	PASS
	2422	Ant1	2390.0	-32.43	0.0	0	62.80	PEAK	74	PASS
	2422	Ant1	2390.0	-46.19	0.0	0	49.04	AV	54	PASS
	2452	Ant1	2483.5	-32.76	0.0	0	62.47	PEAK	74	PASS
	2452	Ant1	2483.5	-44.84	0.0	0	50.39	AV	54	PASS
	2452	Ant1	2500.0	-41.60	0.0	0	53.63	PEAK	74	PASS
	2452	Ant1	2500.0	-51.55	0.0	0	43.68	AV	54	PASS

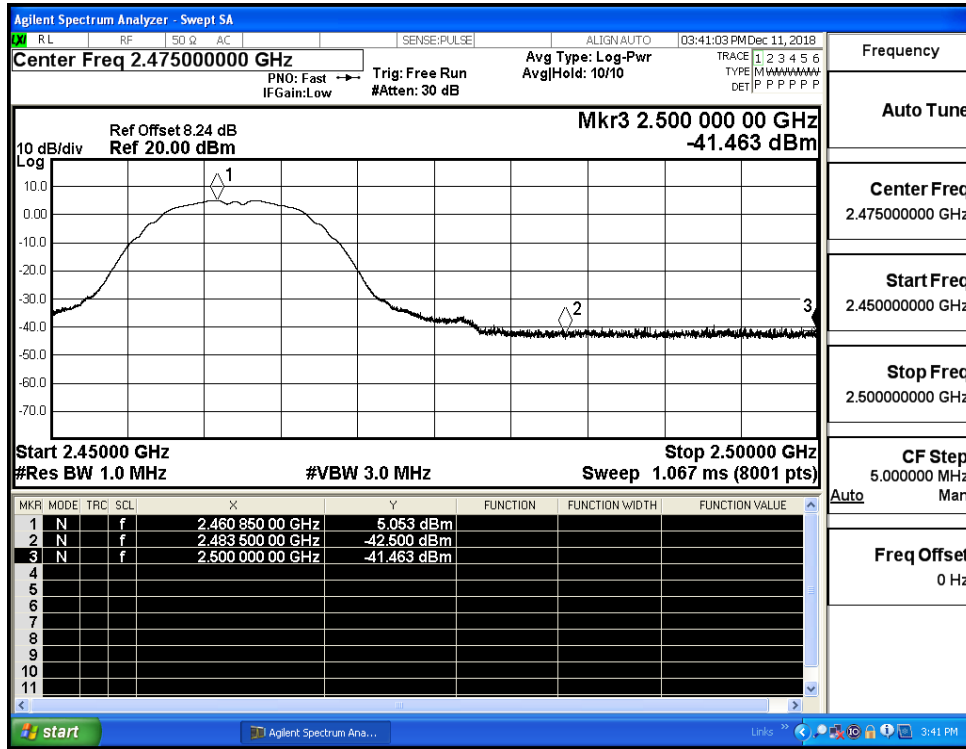
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



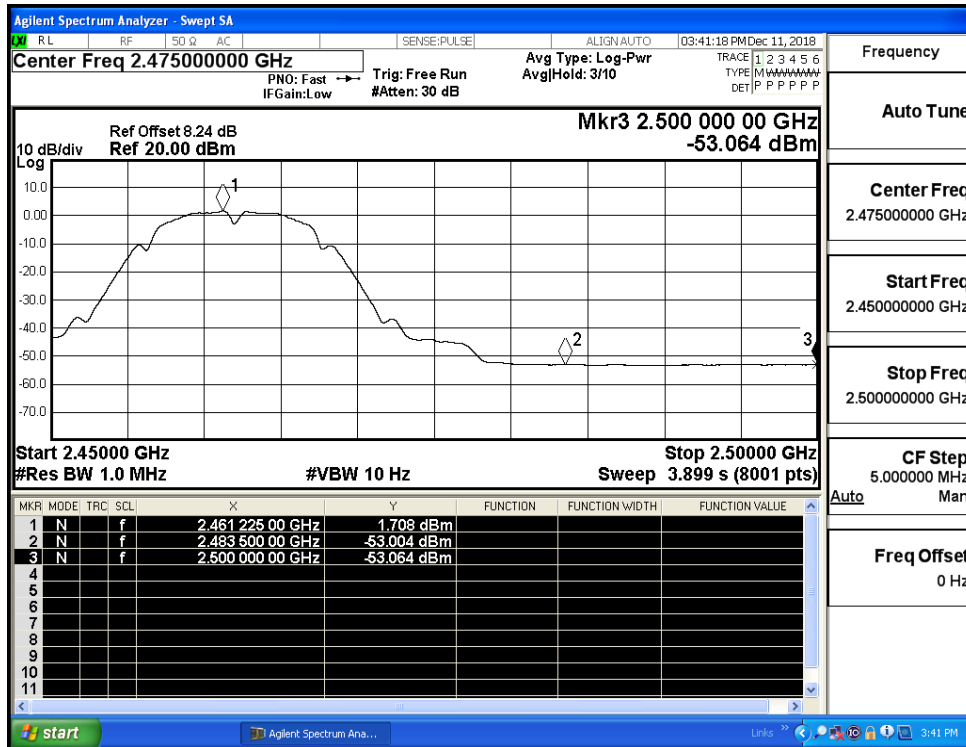
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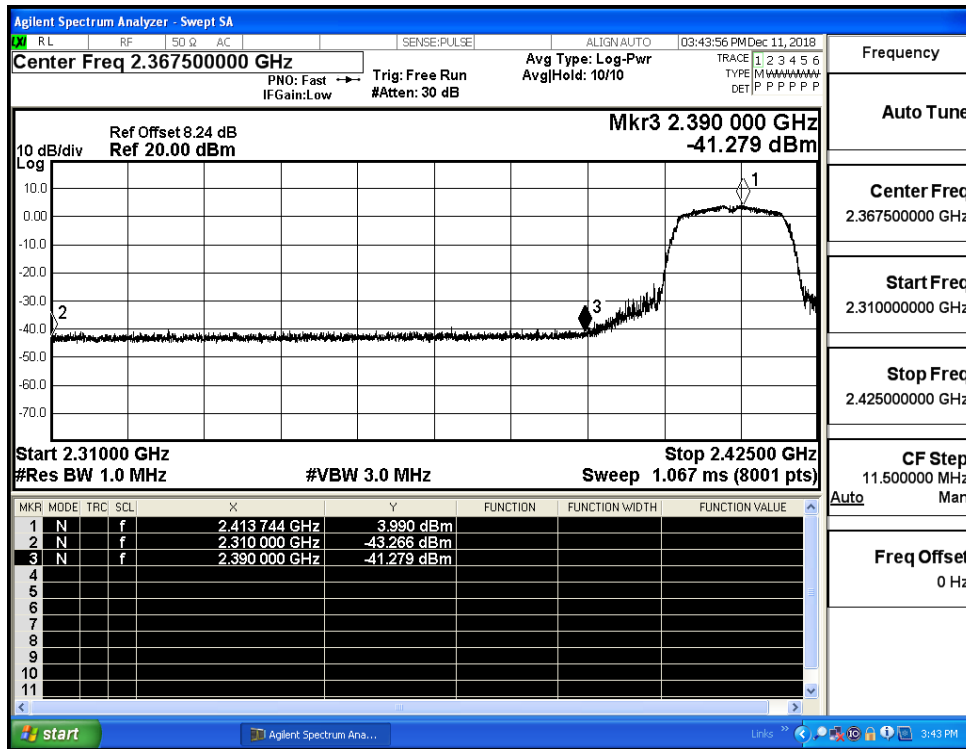
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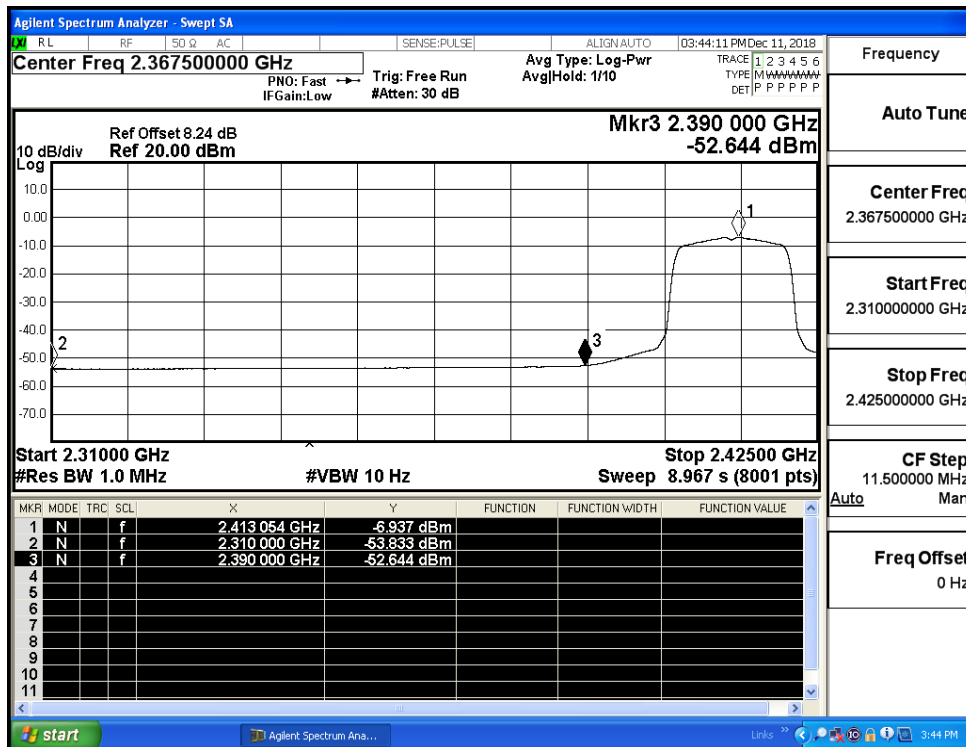
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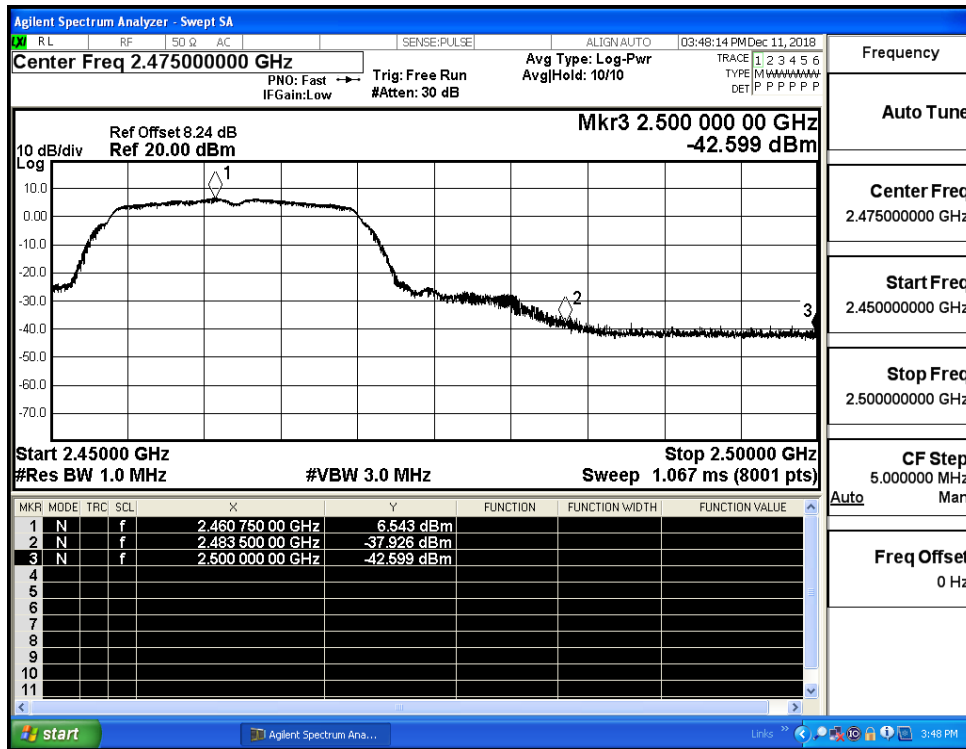
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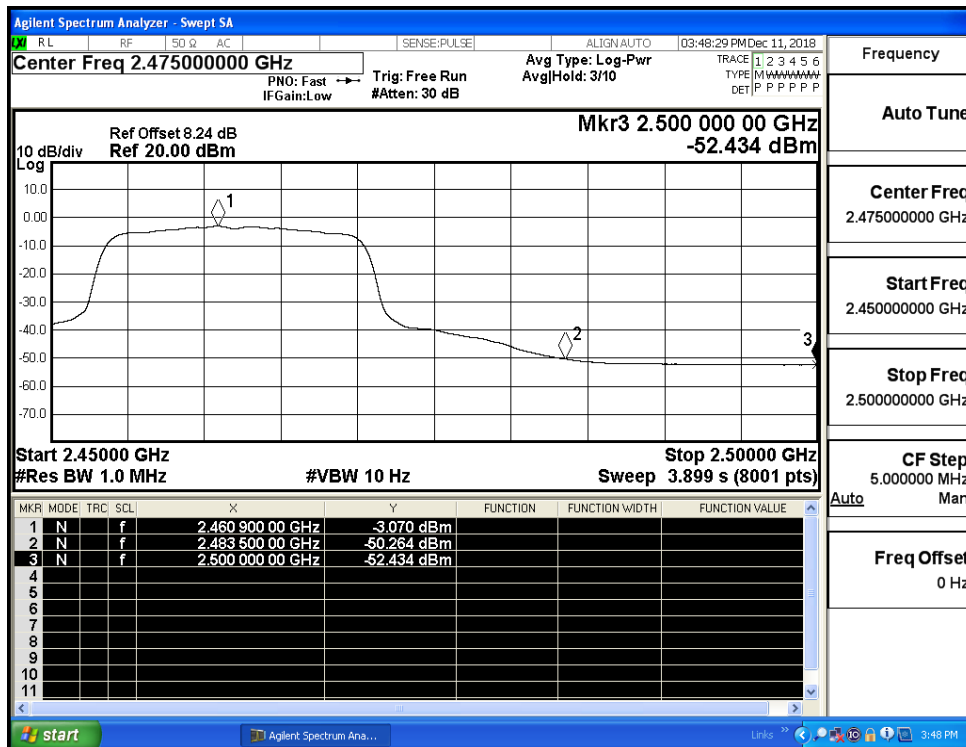
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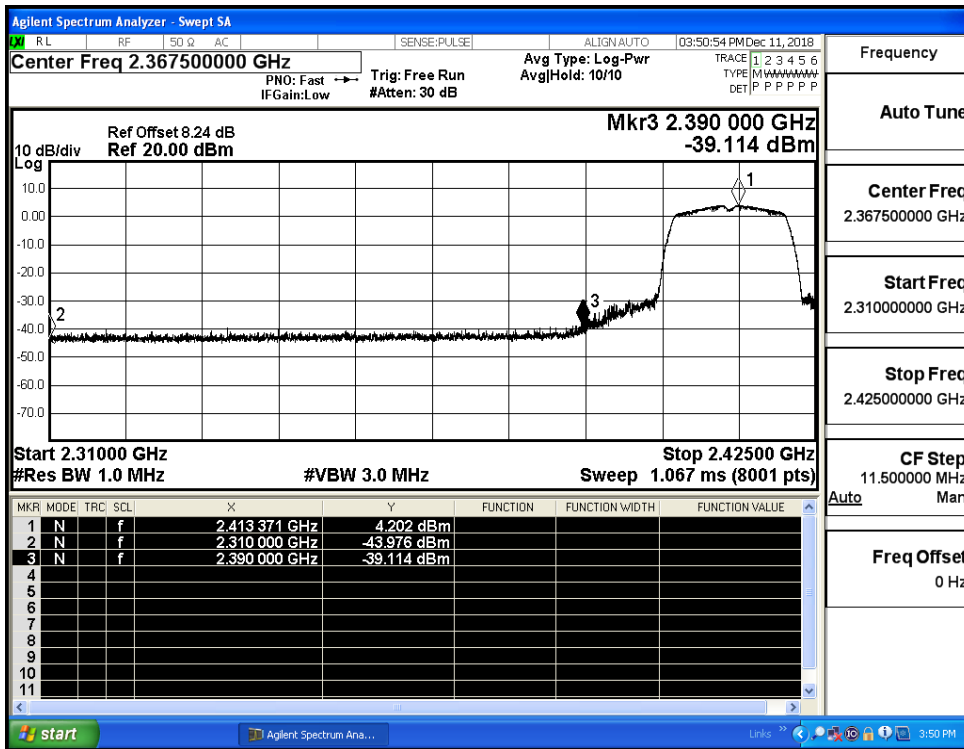
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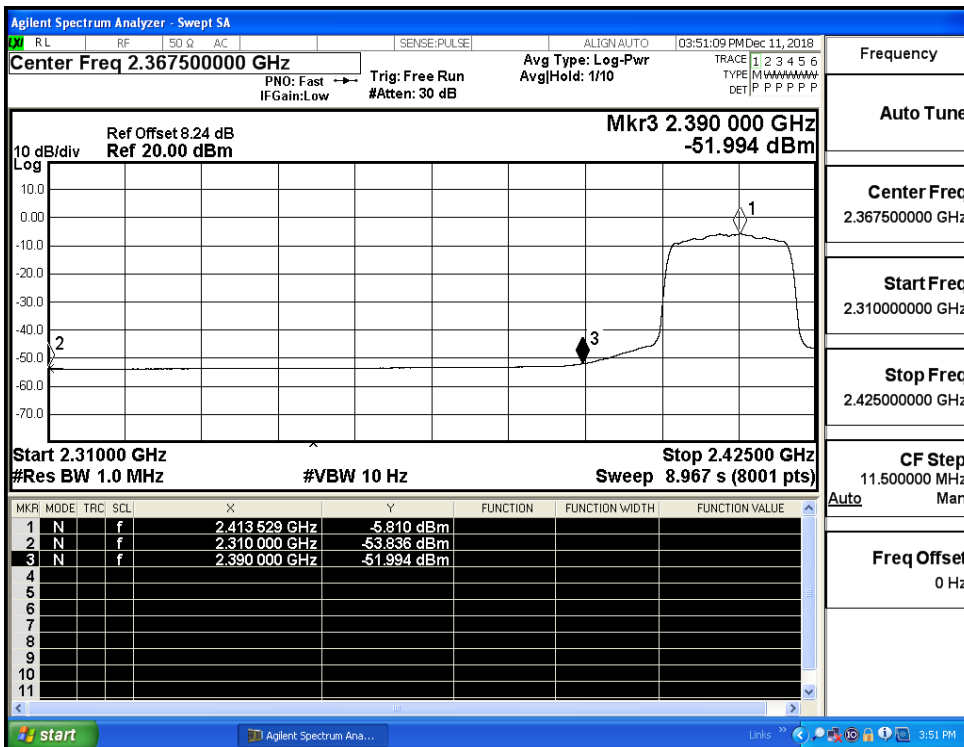
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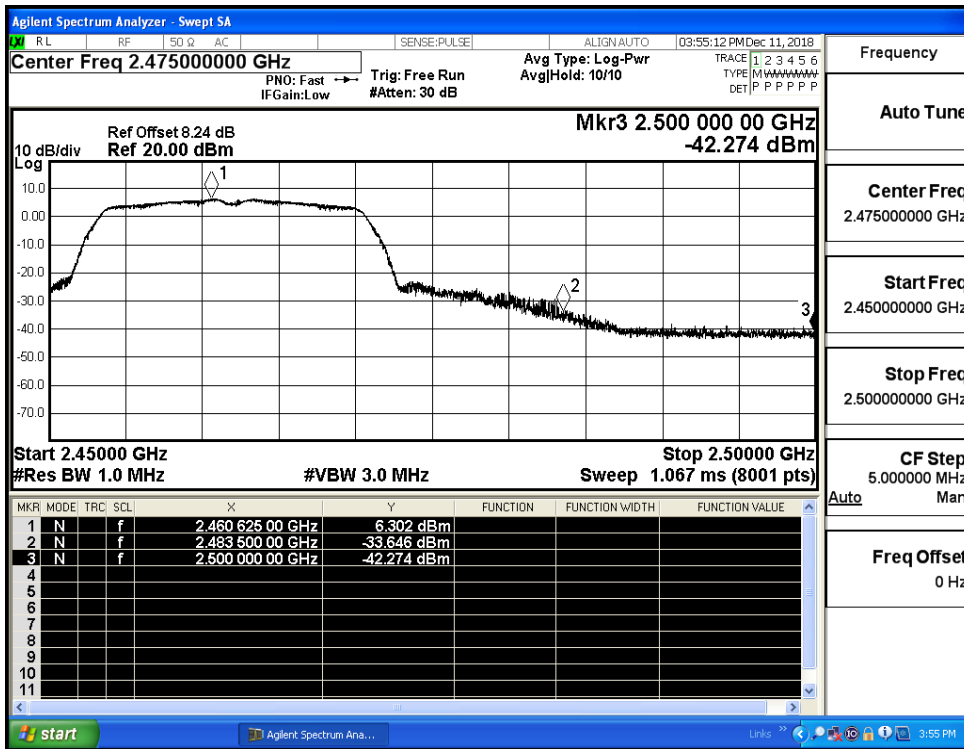
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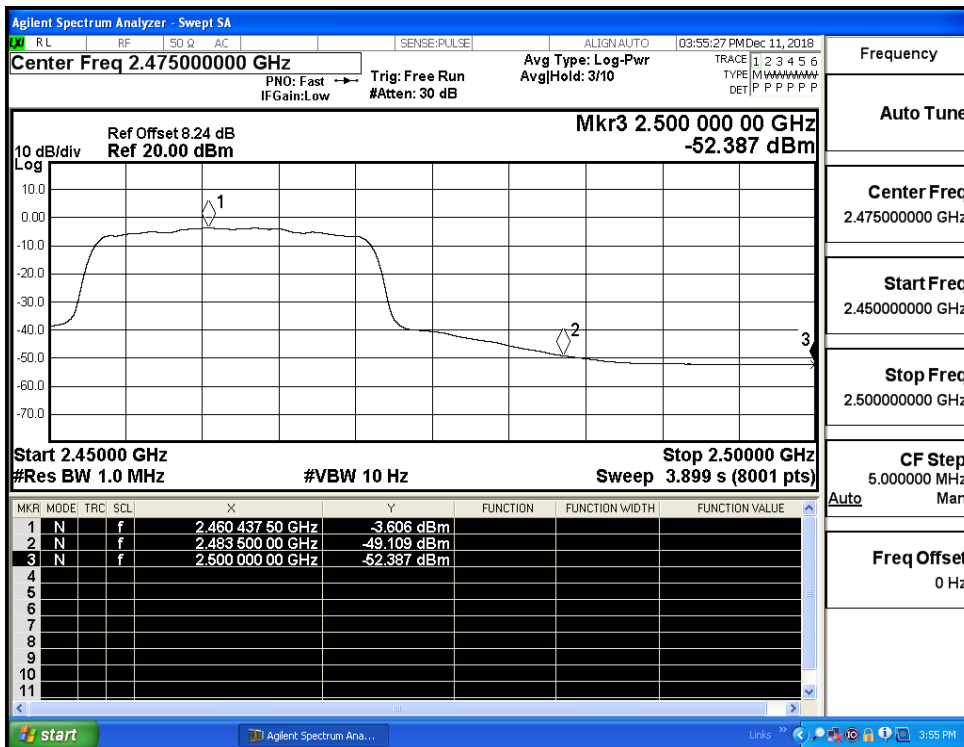
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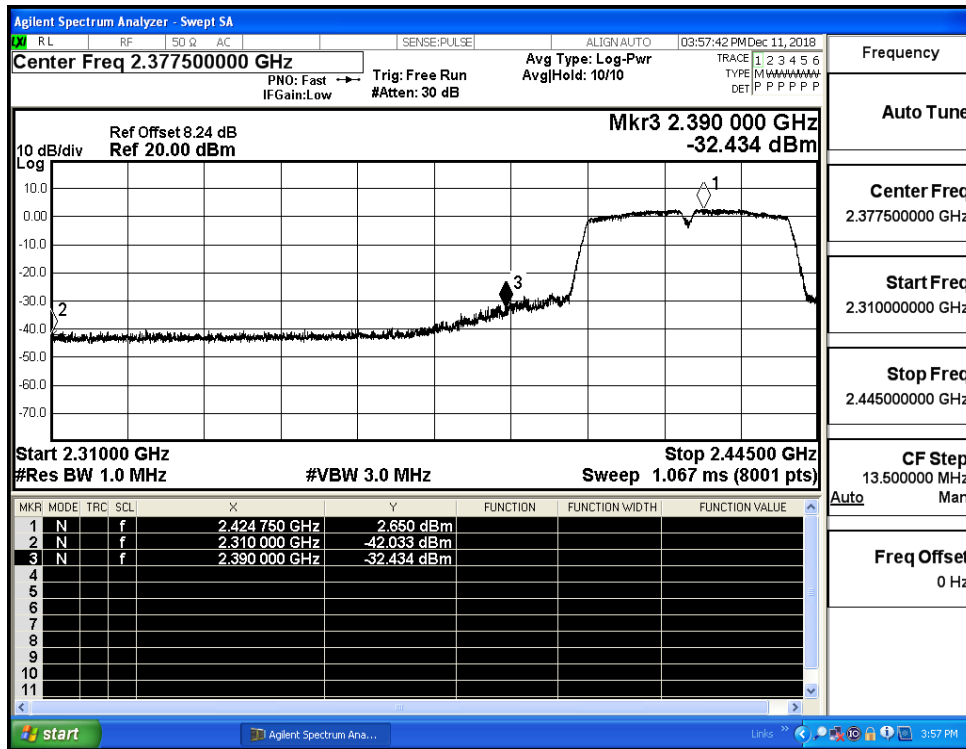
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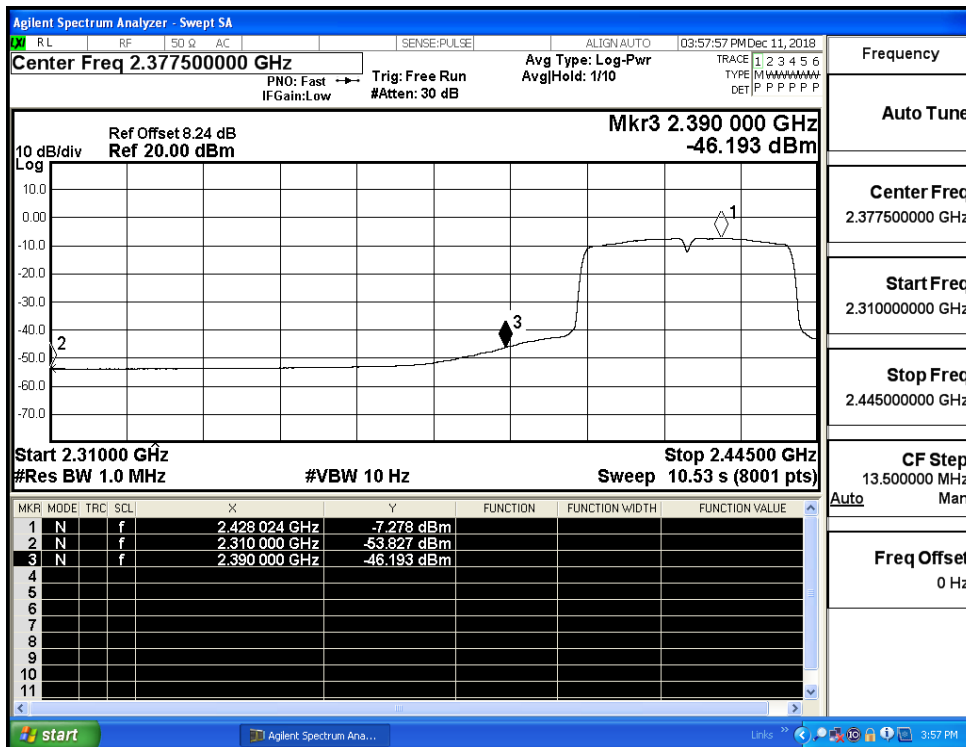
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



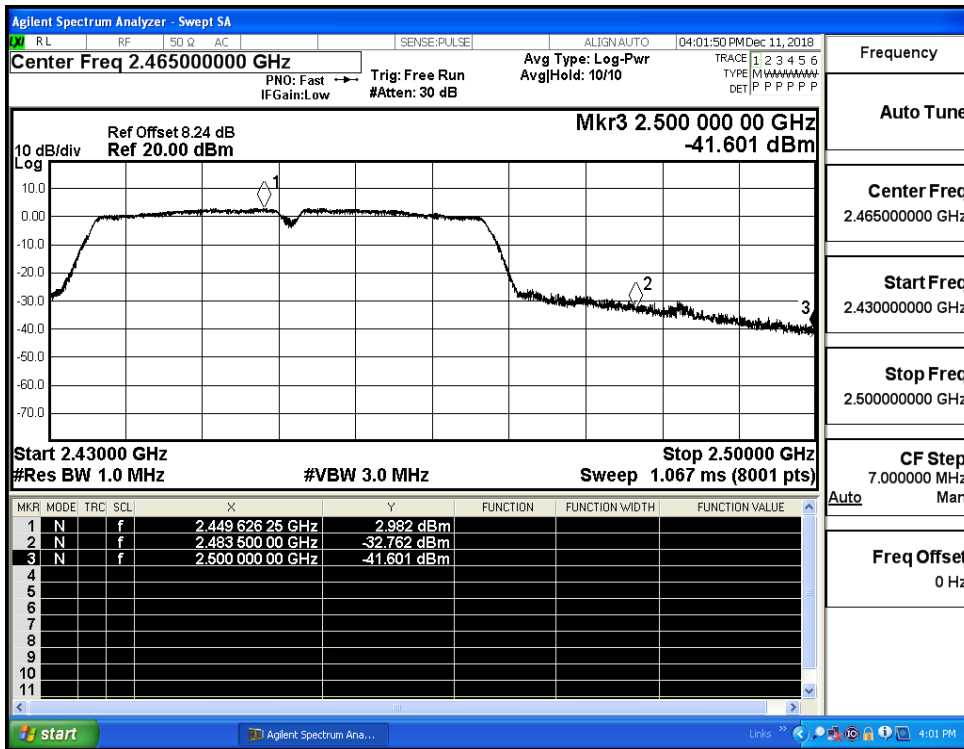
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



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

