

## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

**Product Name: VibroSaver**

**Trade Mark: VibroSaver**

**Test Model: VibroSaver**

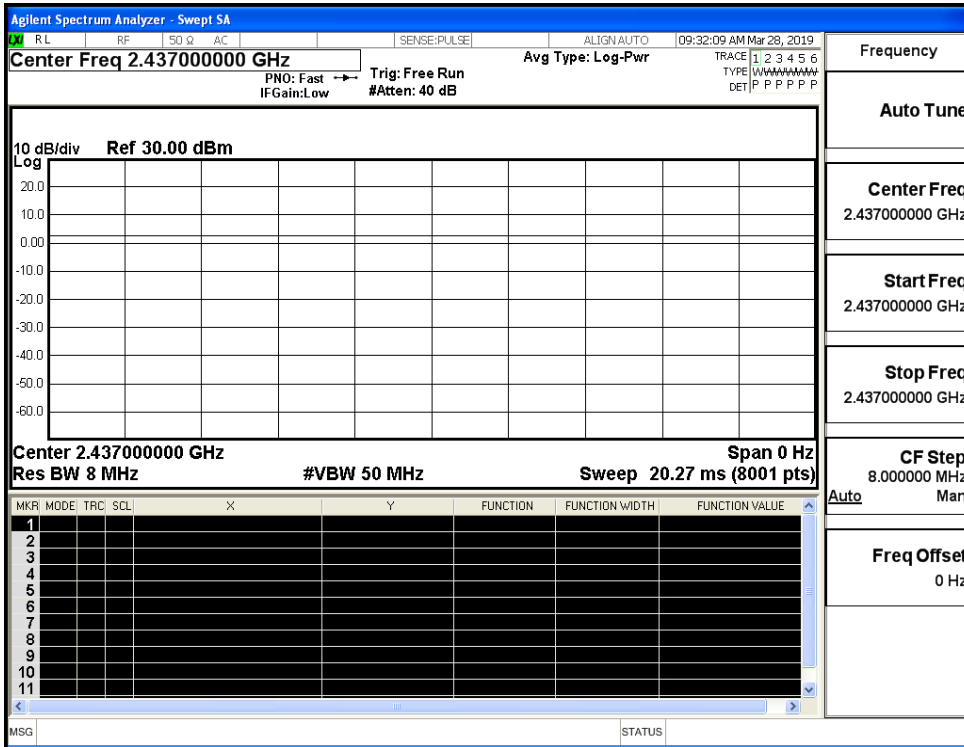
#### Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.Zeng
Supervised by:	Tom.Liu

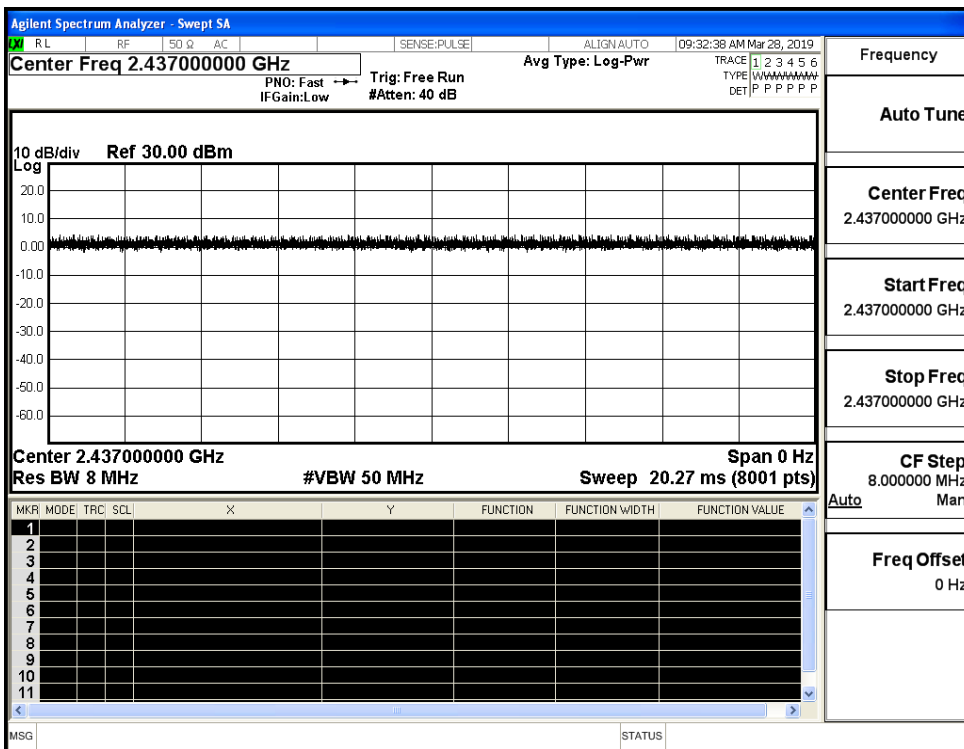
#### C.1 Duty Cycle

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

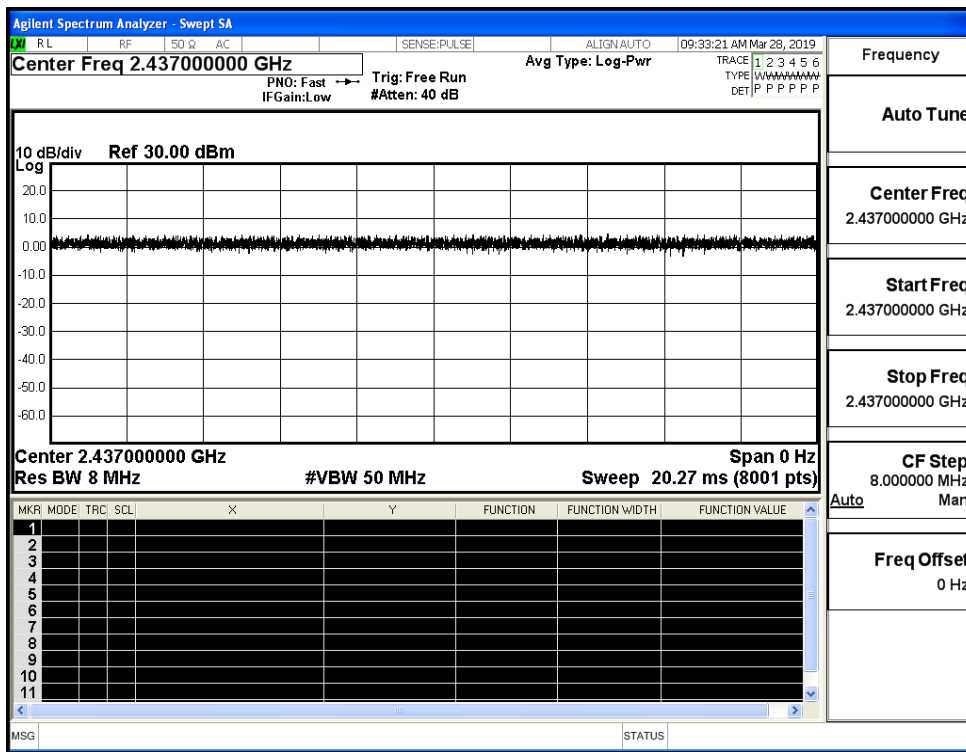
Duty Cycle\_11B\_2437\_Ant1



Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1

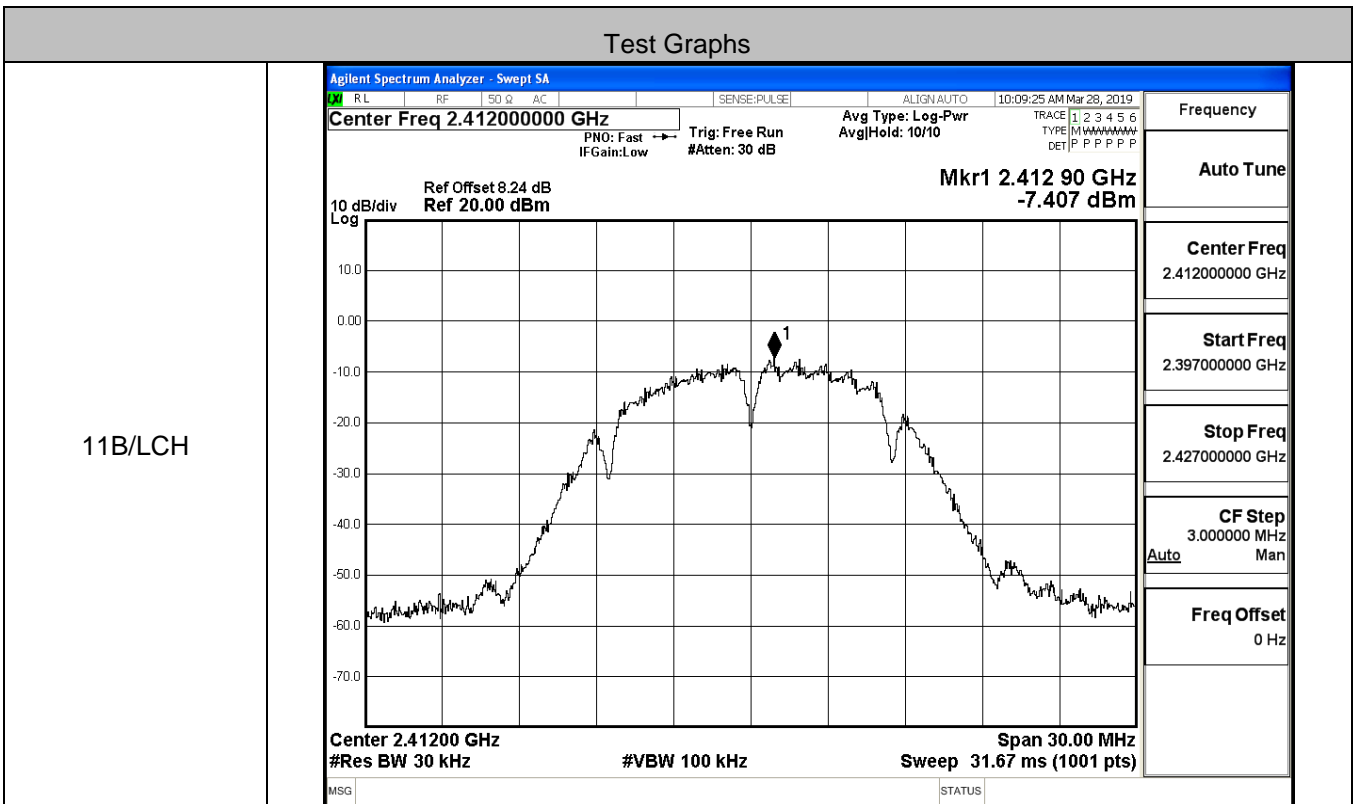


C.2 Maximum Conducted Output Power

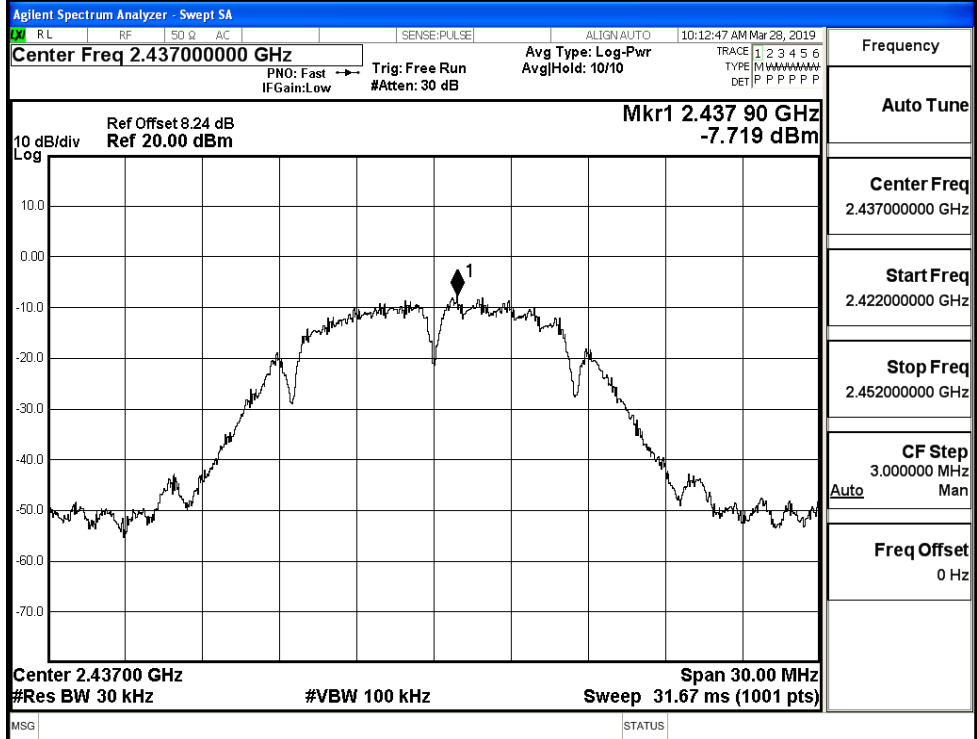
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.09	30	PASS
	MCH	16.39	30	PASS
	HCH	16.15	30	PASS
11G	LCH	15.41	30	PASS
	MCH	15.30	30	PASS
	HCH	15.28	30	PASS
11N20SISO	LCH	14.51	30	PASS
	MCH	14.54	30	PASS
	HCH	13.21	30	PASS

### C.3 Maximum Power Spectral Density

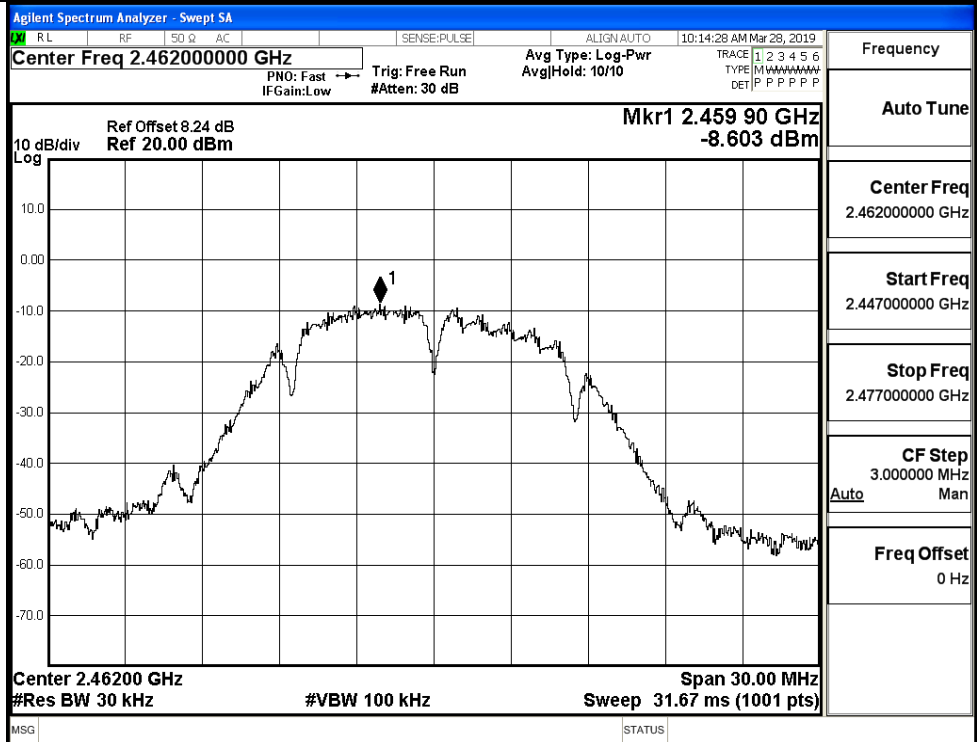
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-7.407	8	PASS
	MCH	-7.719	8	PASS
	HCH	-8.603	8	PASS
11G	LCH	-8.714	8	PASS
	MCH	-9.518	8	PASS
	HCH	-9.595	8	PASS
11N20SISO	LCH	-8.127	8	PASS
	MCH	-8.707	8	PASS
	HCH	-9.894	8	PASS



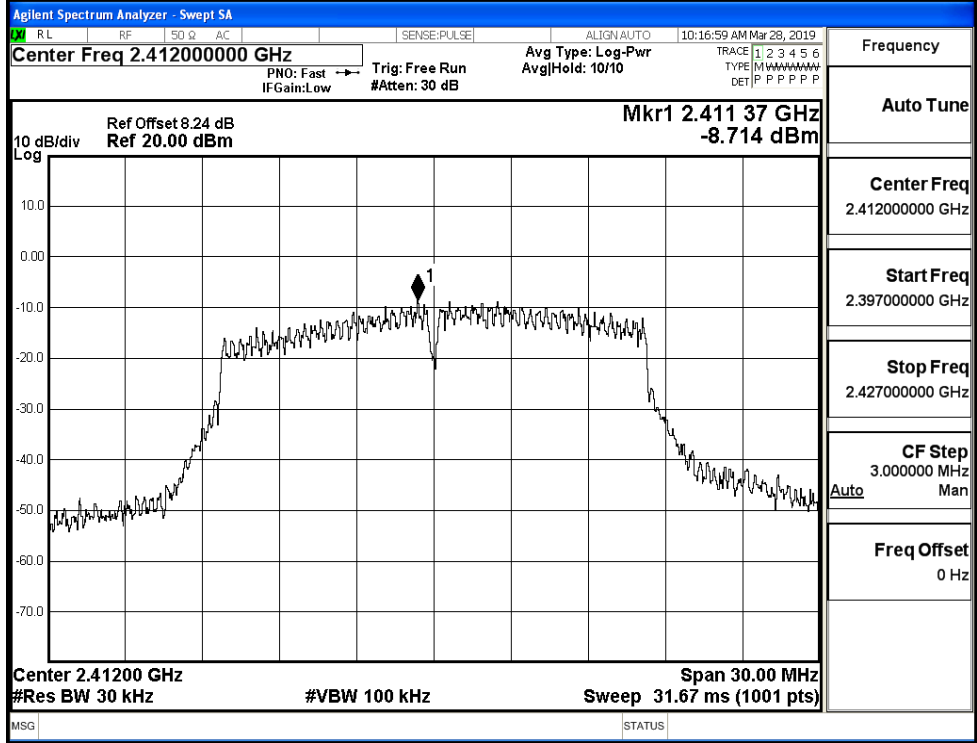
11B/MCH



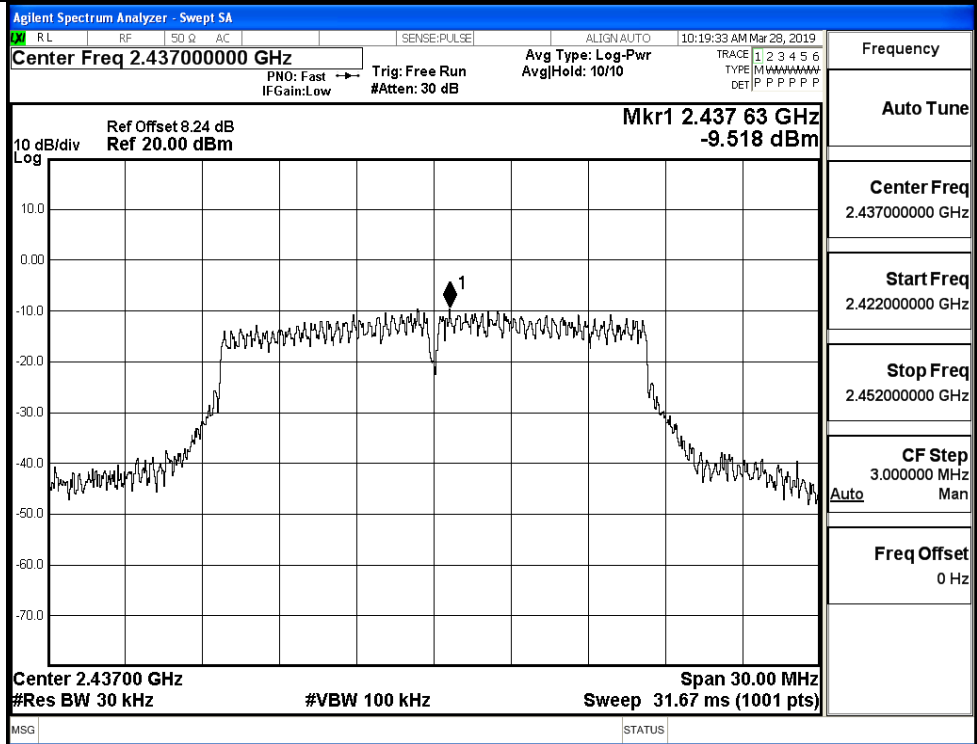
11B/HCH



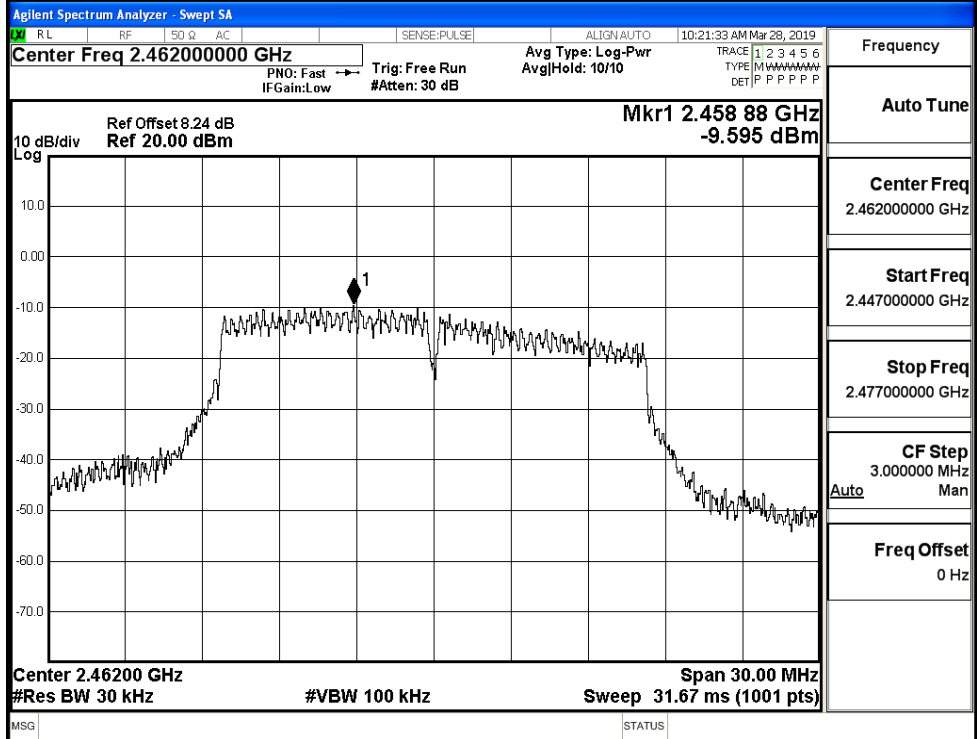
11G/LCH



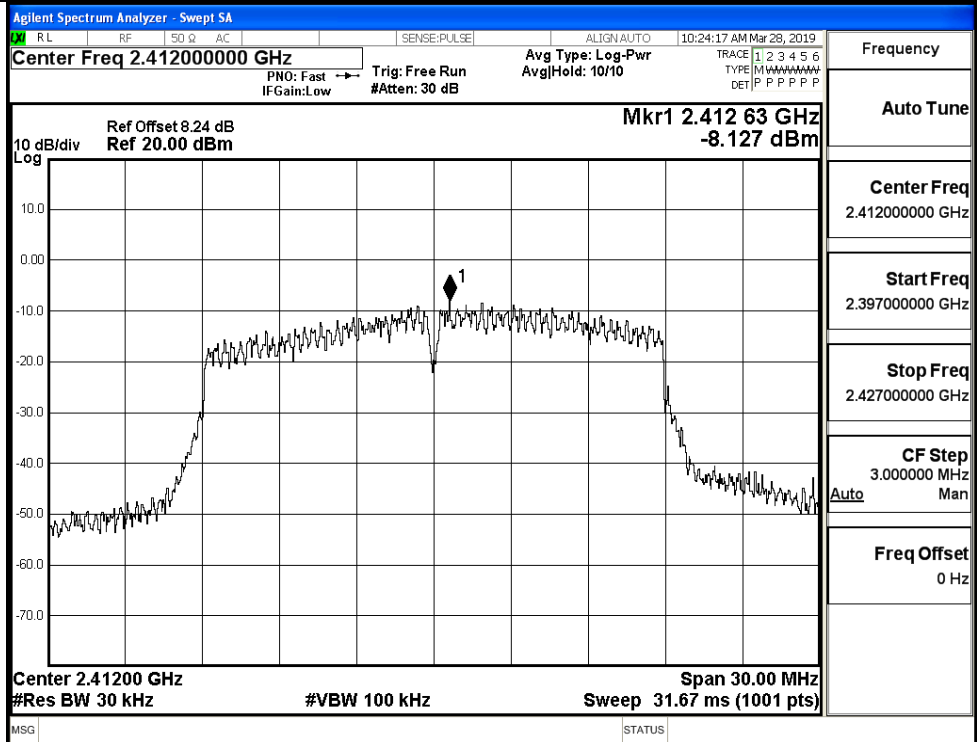
11G/MCH



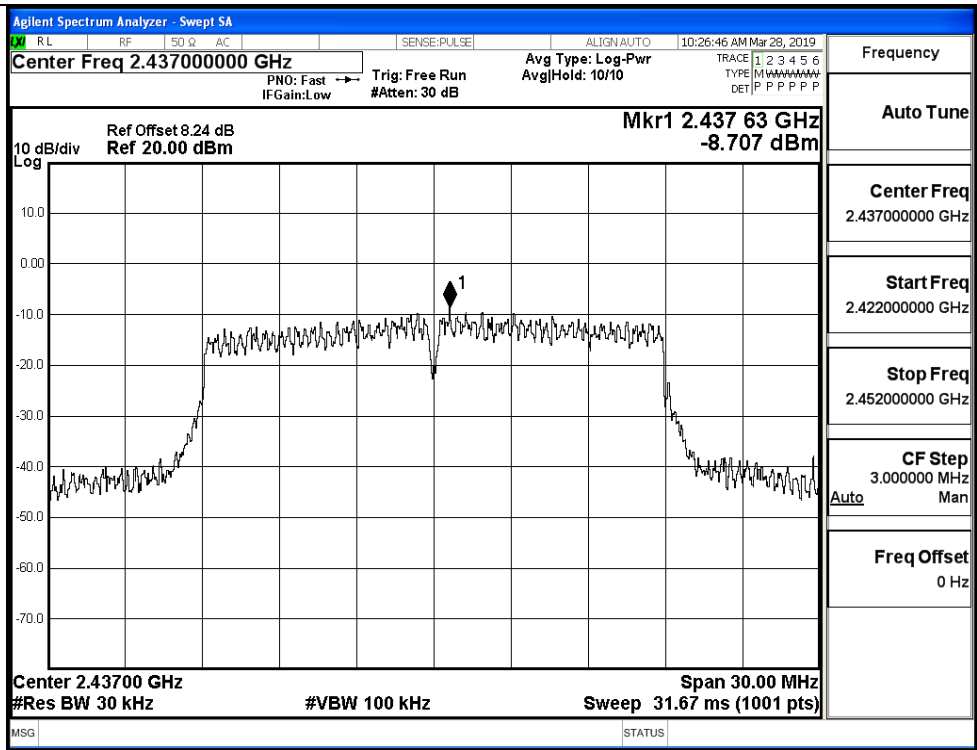
11G/HCH



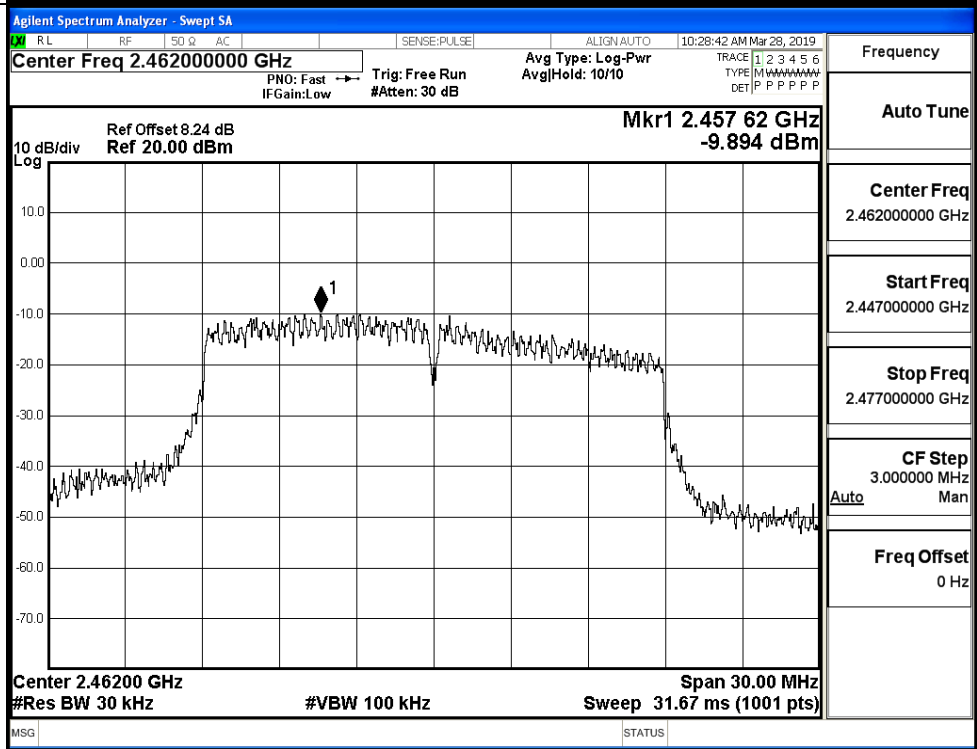
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

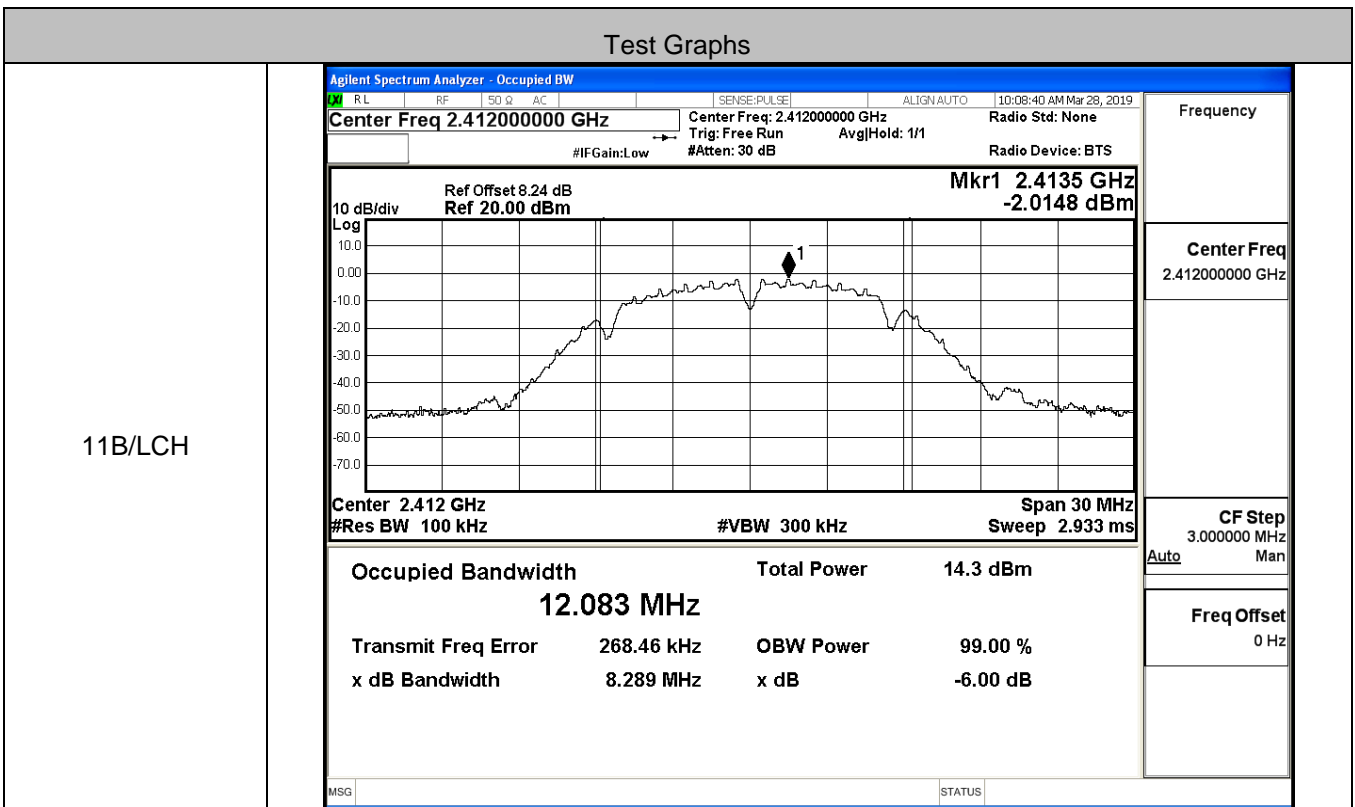




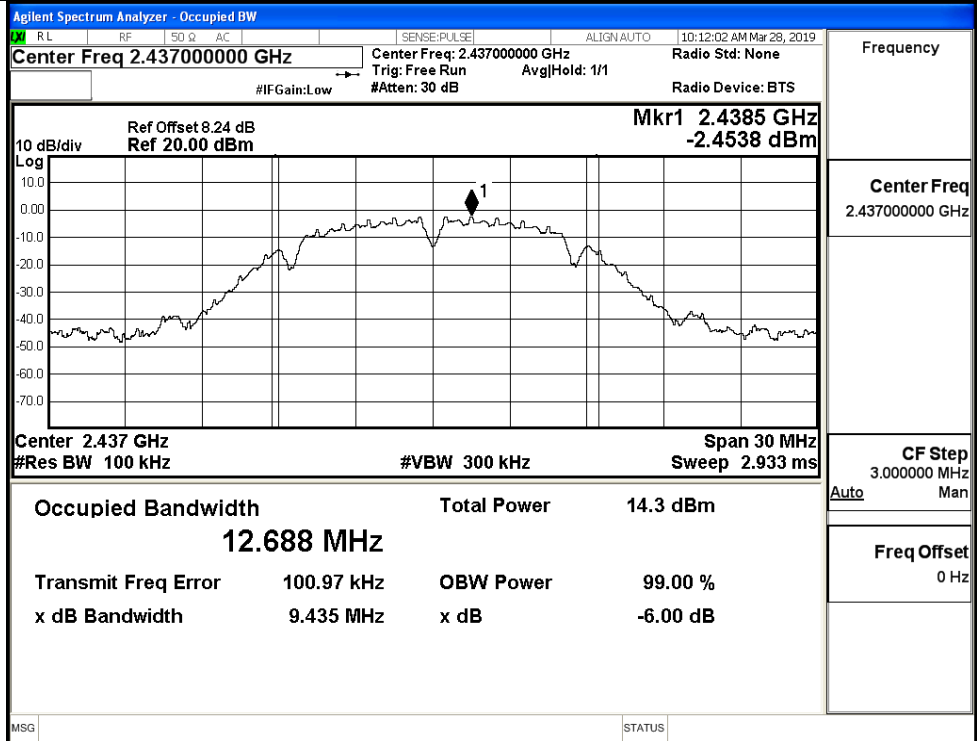
**C.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.289	≥0.5	PASS
	MCH	9.435	≥0.5	PASS
	HCH	8.624	≥0.5	PASS
11G	LCH	15.10	≥0.5	PASS
	MCH	16.46	≥0.5	PASS
	HCH	14.76	≥0.5	PASS
11N20SISO	LCH	15.32	≥0.5	PASS
	MCH	17.73	≥0.5	PASS
	HCH	14.29	≥0.5	PASS

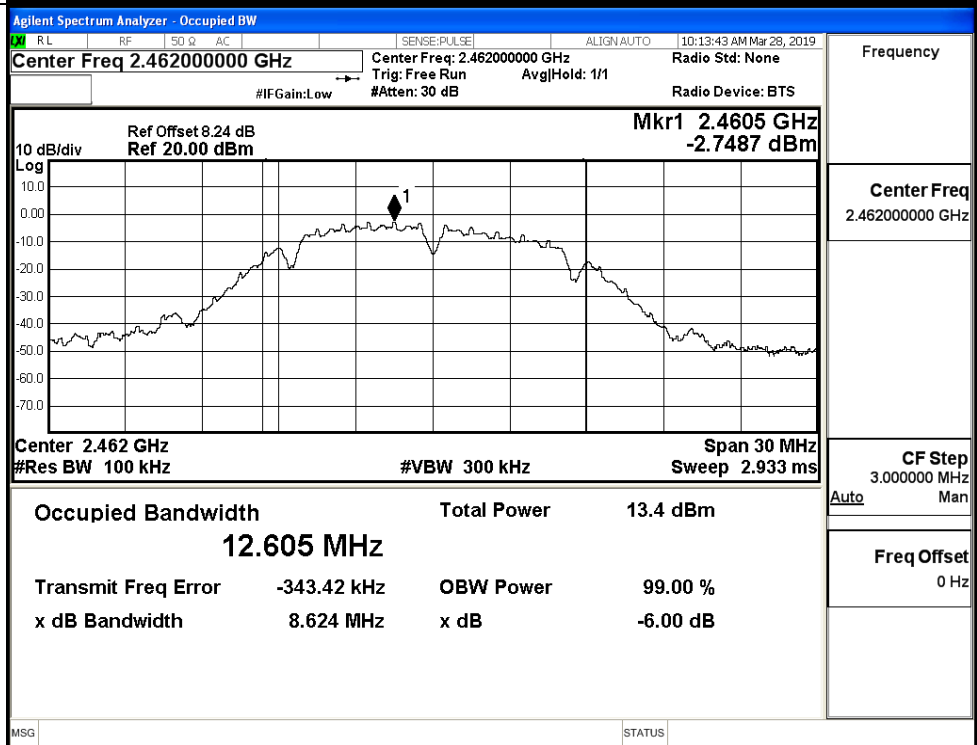
**Test Graphs**



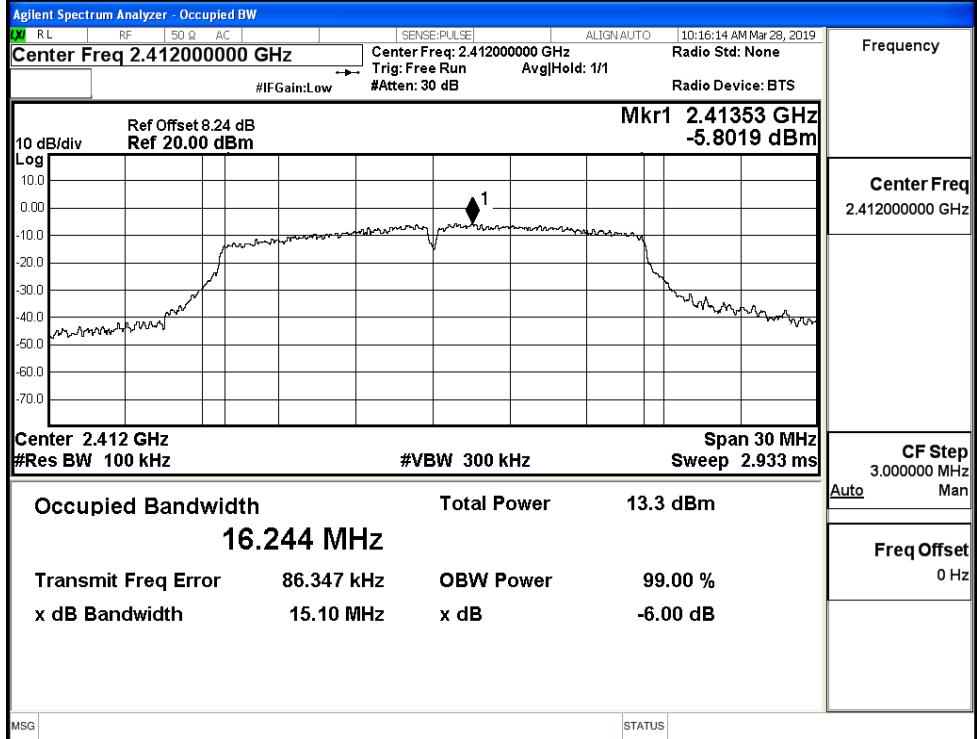
11B/MCH



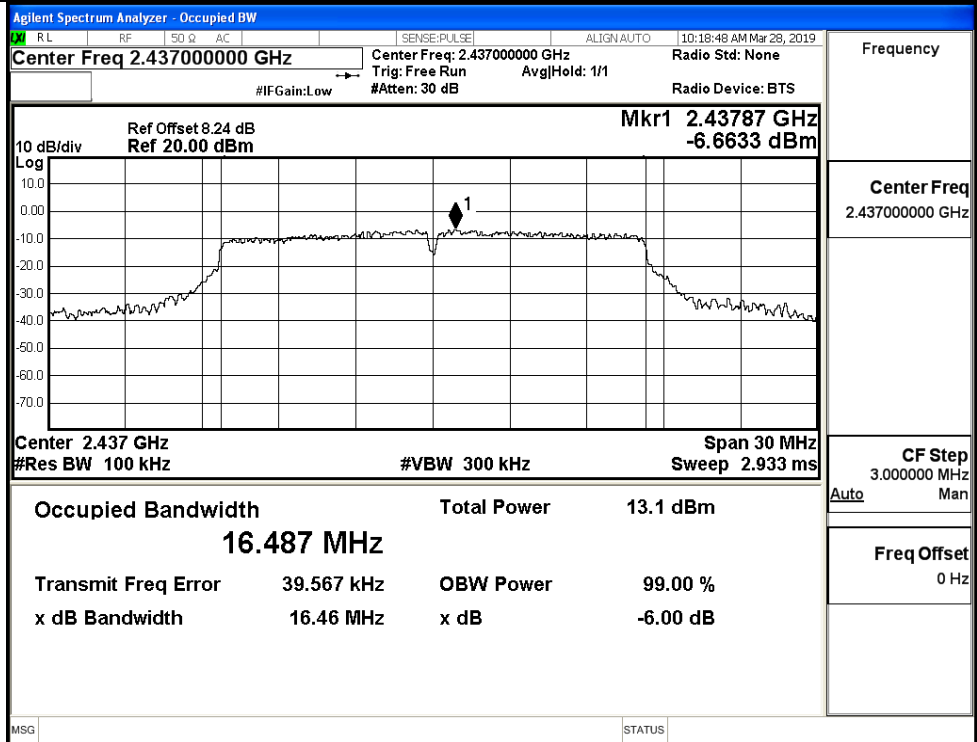
11B/HCH



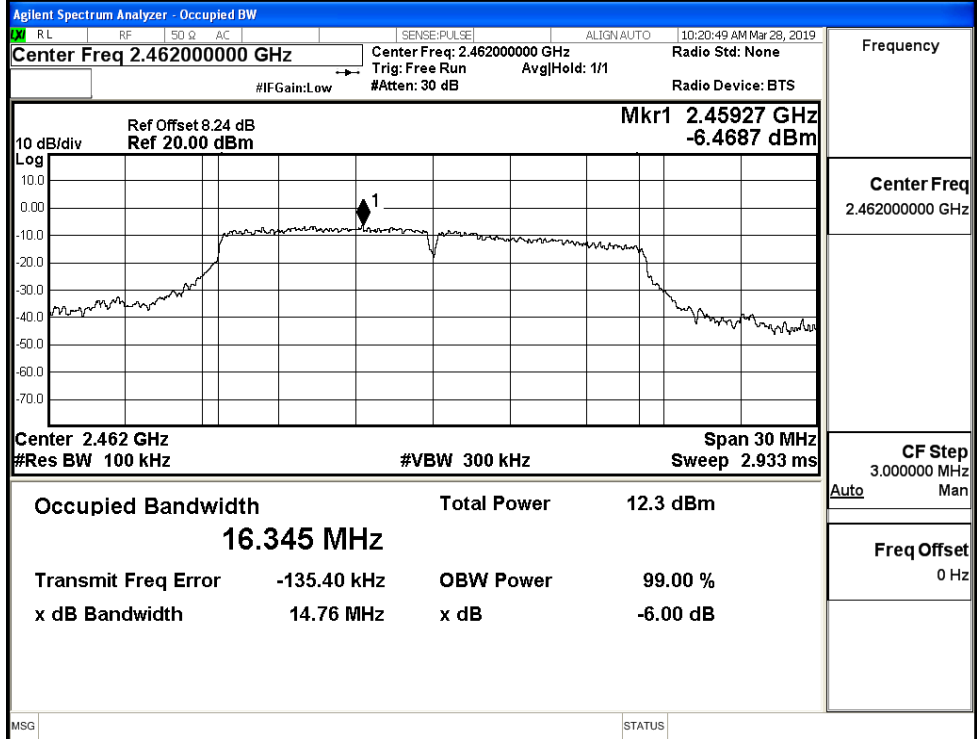
11G/LCH



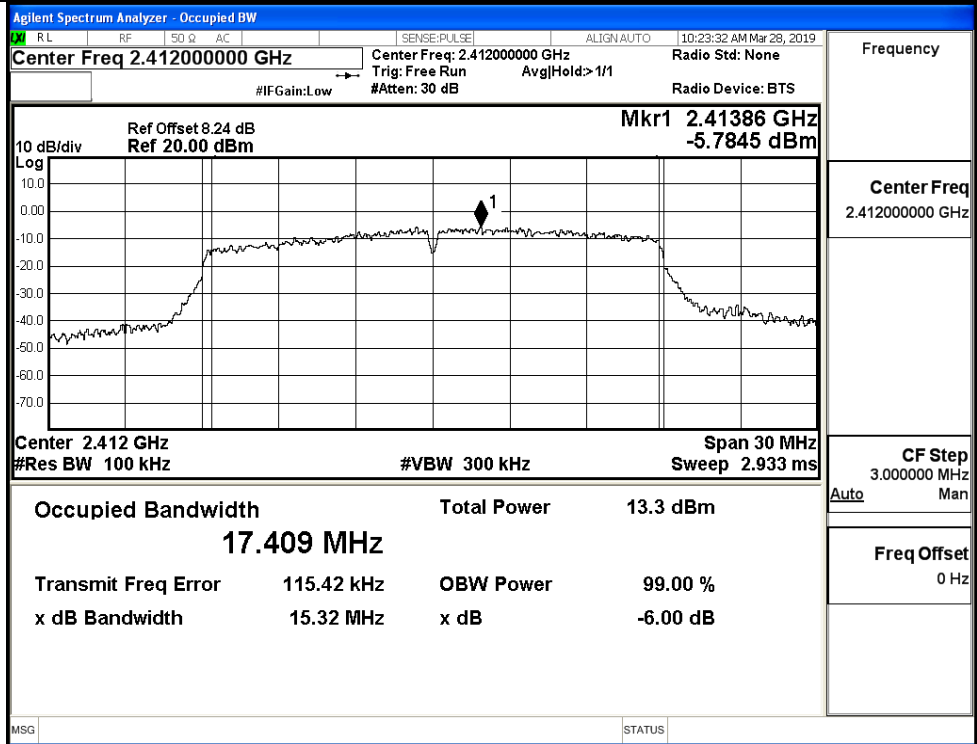
11G/MCH



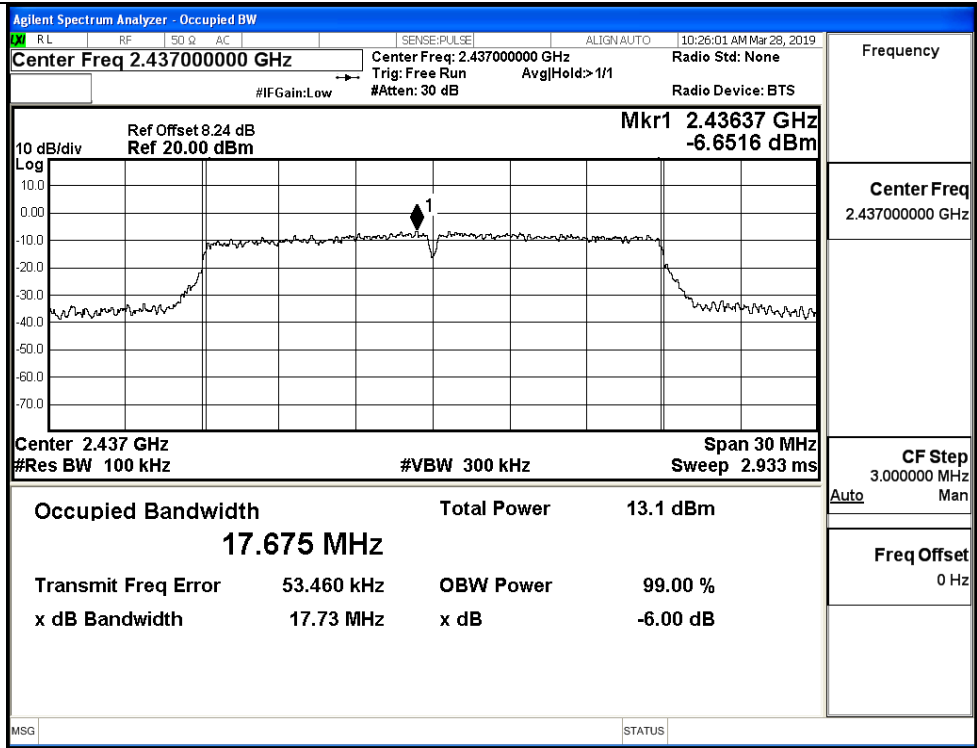
11G/HCH



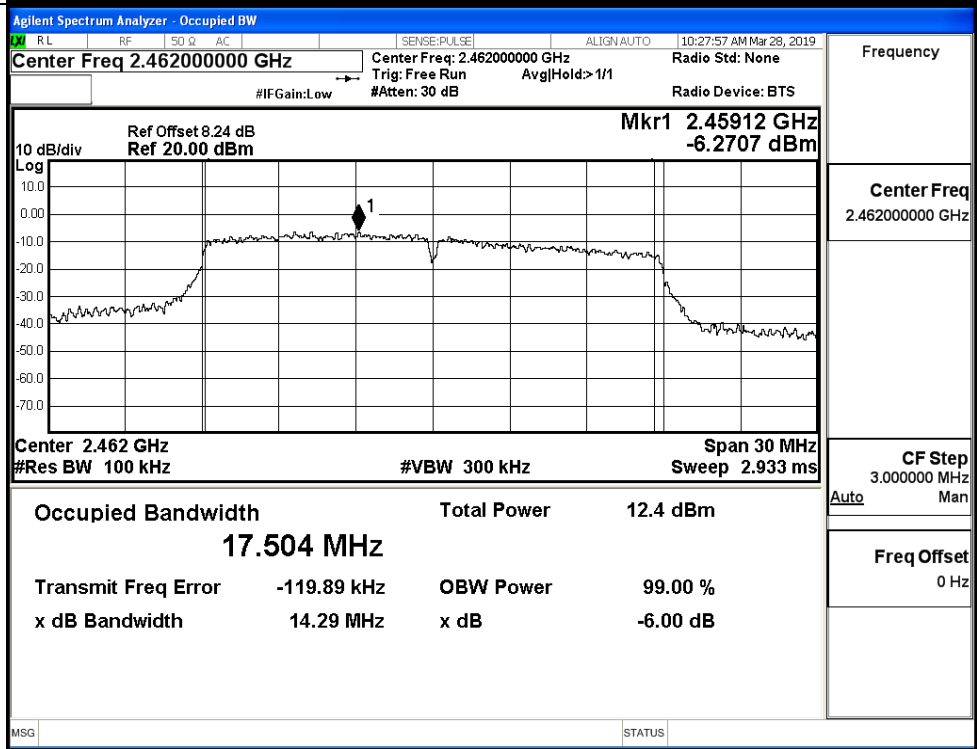
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

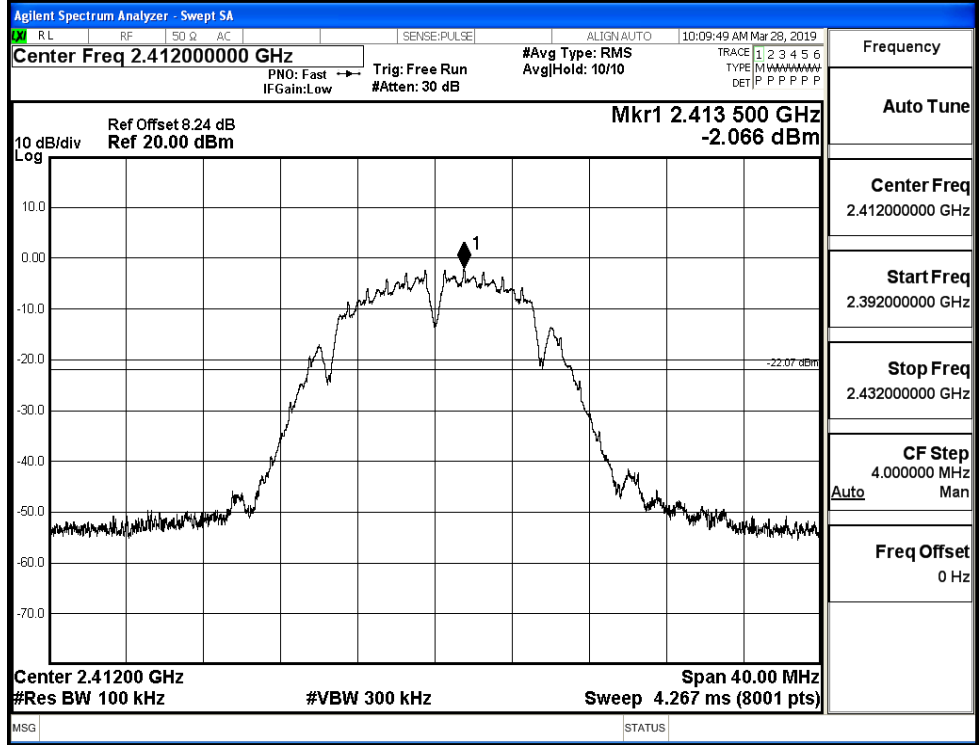


### C.5 RF Conducted Spurious Emissions

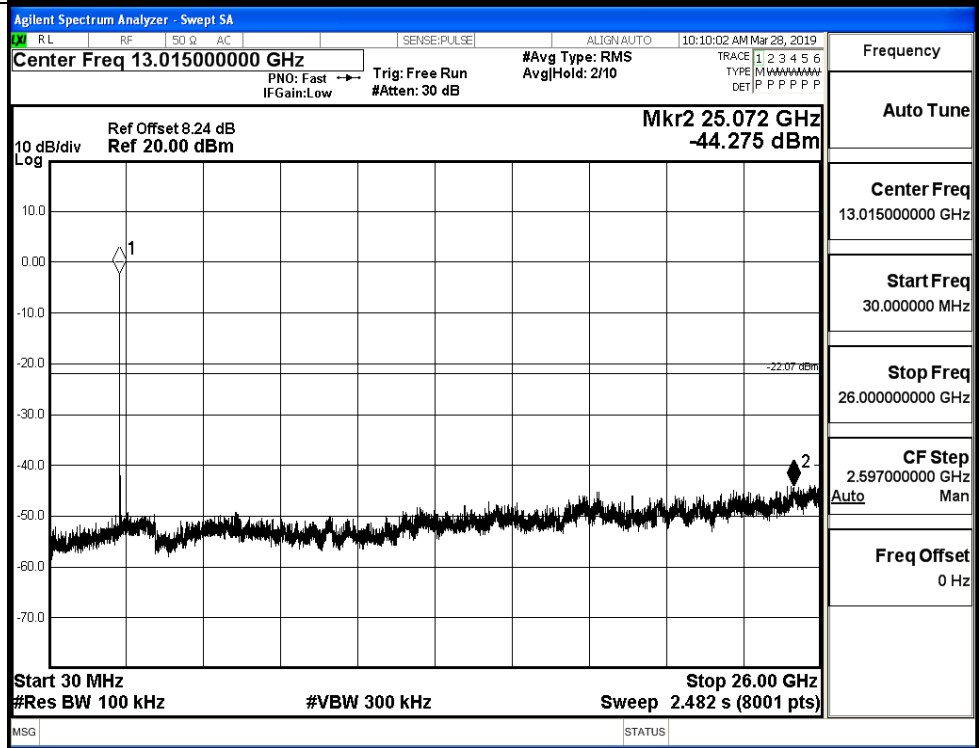
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.066	-44.275	-22.066	PASS
	MCH	-2.516	-43.931	-22.516	PASS
	HCH	-2.839	-42.666	-22.839	PASS
11G	LCH	-5.921	-43.818	-25.921	PASS
	MCH	-6.681	-42.823	-26.681	PASS
	HCH	-6.703	-43.102	-26.703	PASS
11N20 SISO	LCH	-6.201	-43.111	-26.201	PASS
	MCH	-6.783	-43.230	-26.783	PASS
	HCH	-6.201	-42.413	-26.201	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

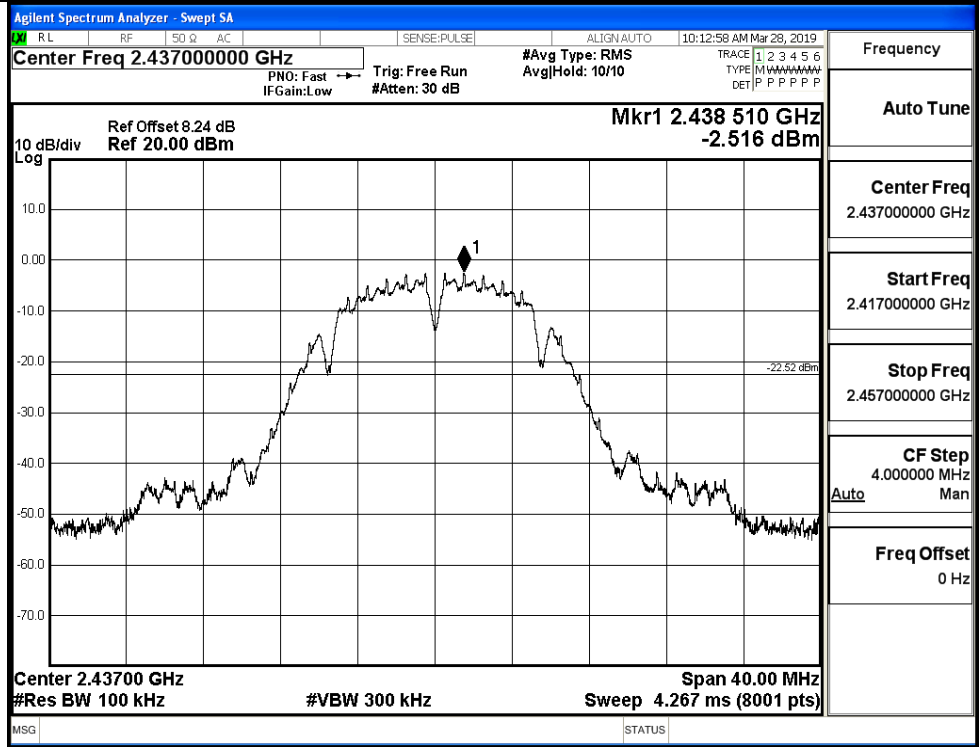


Puw/11B/LCH

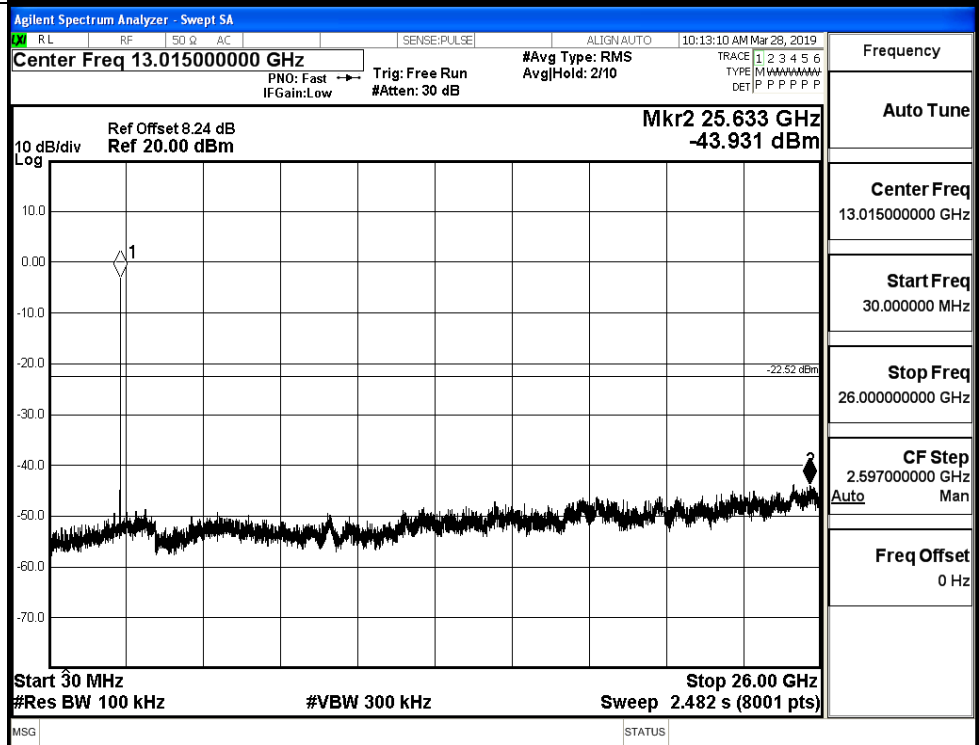


11B\_MCH\_Graphs

Pref/11B/MCH



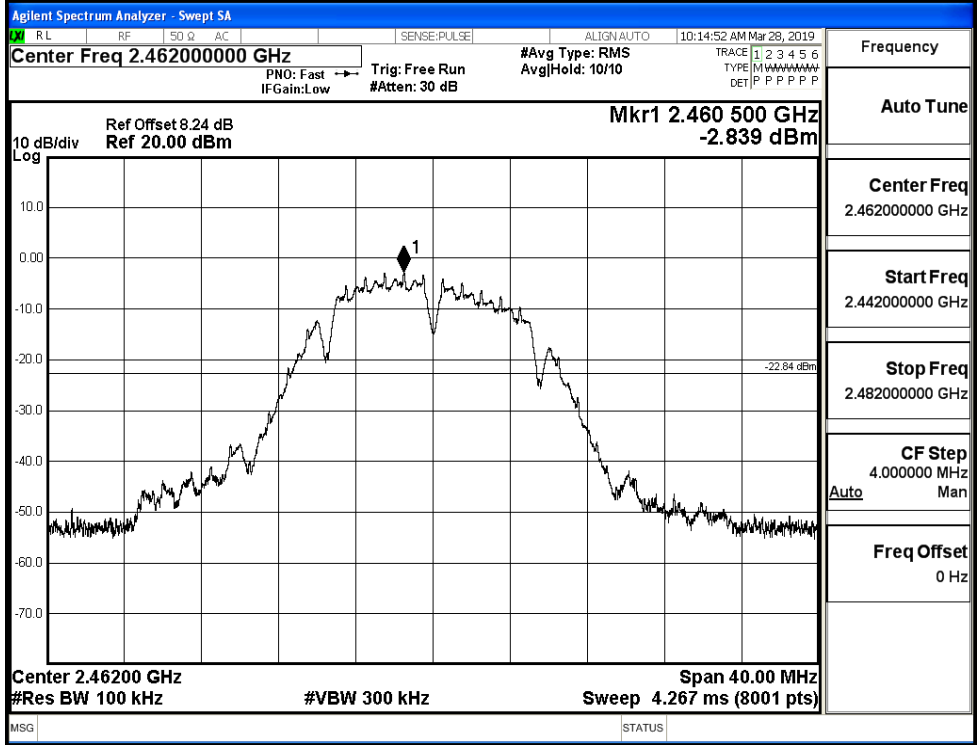
Puw/11B/MCH



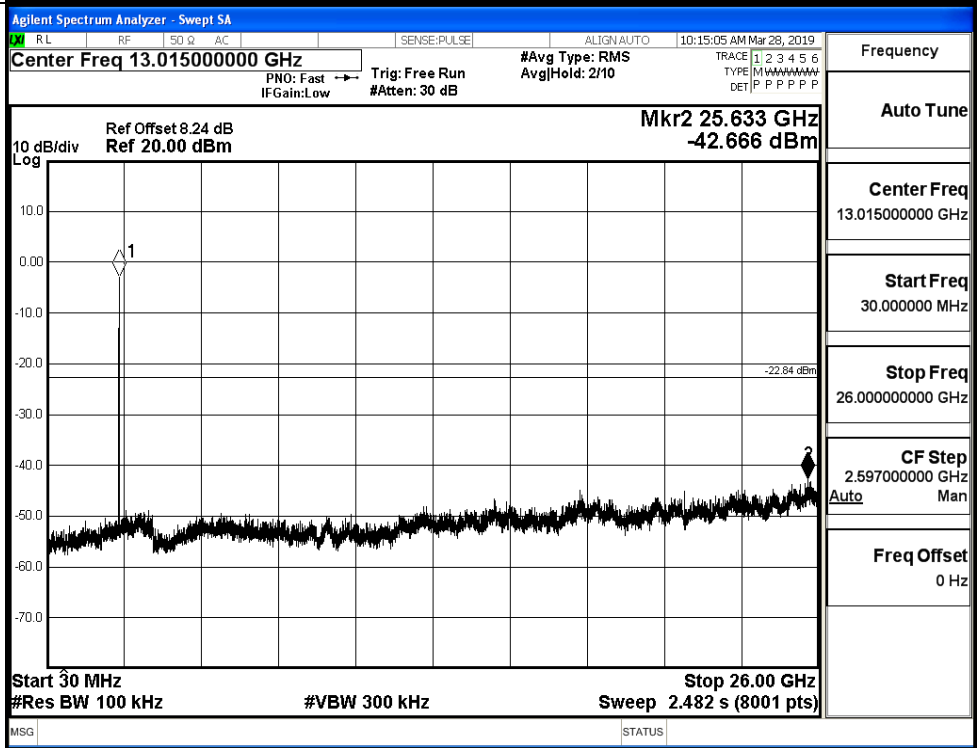


11B\_HCH\_Graphs

Pref/11B/HCH

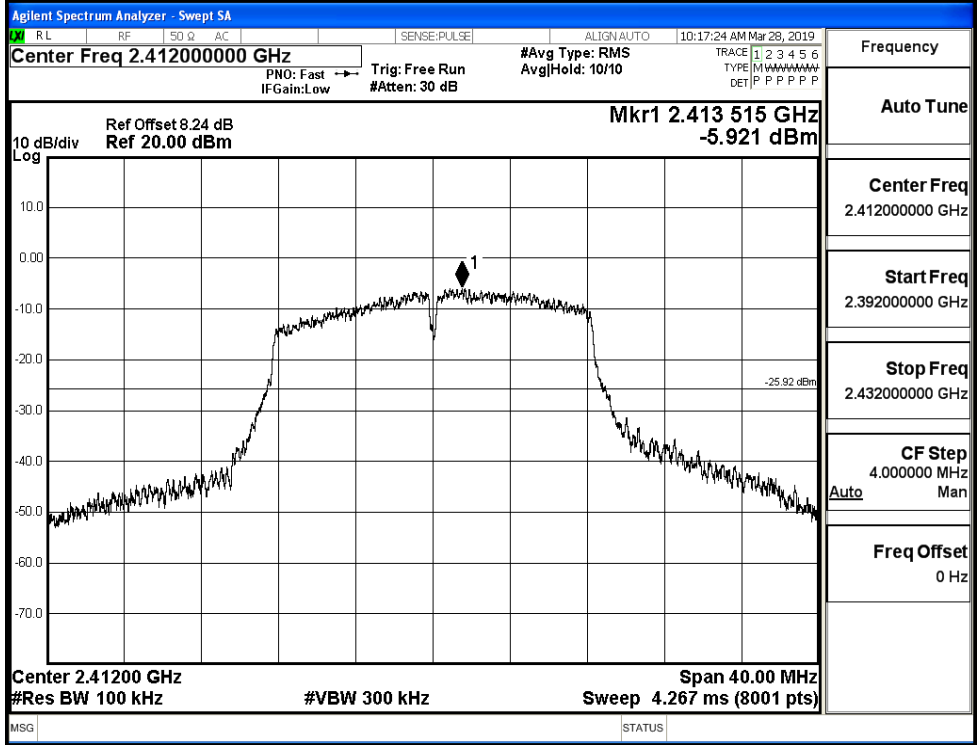


Puw/11B/HCH

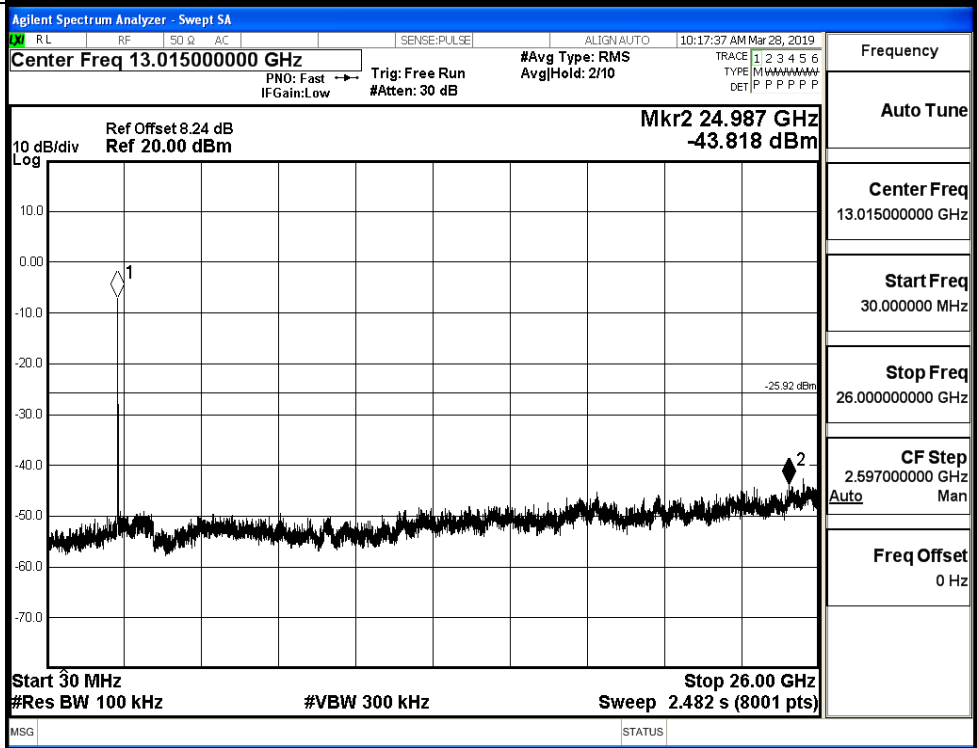


11G\_LCH\_Graphs

Pref/11G/LCH

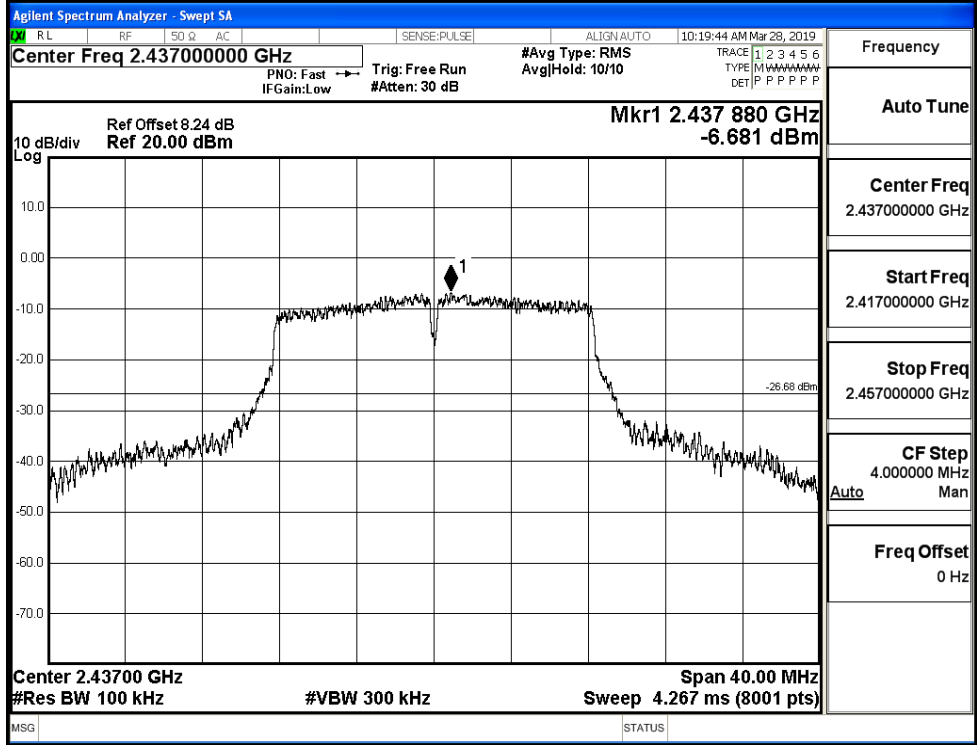


Puw/11G/LCH

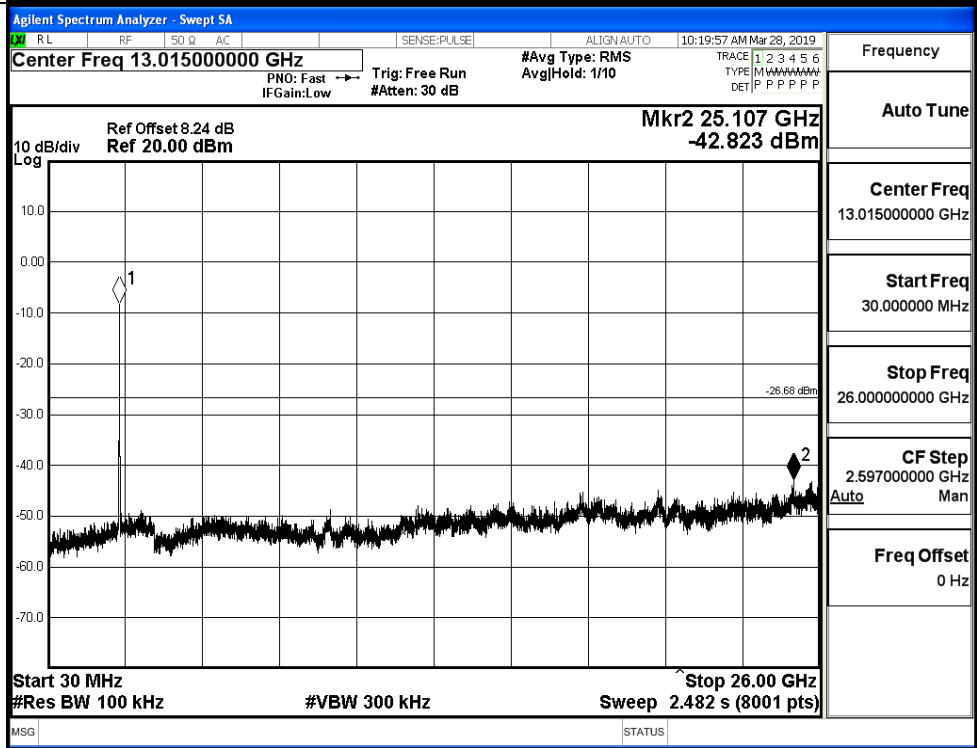


11G\_MCH\_Graphs

Pref/11G/MCH

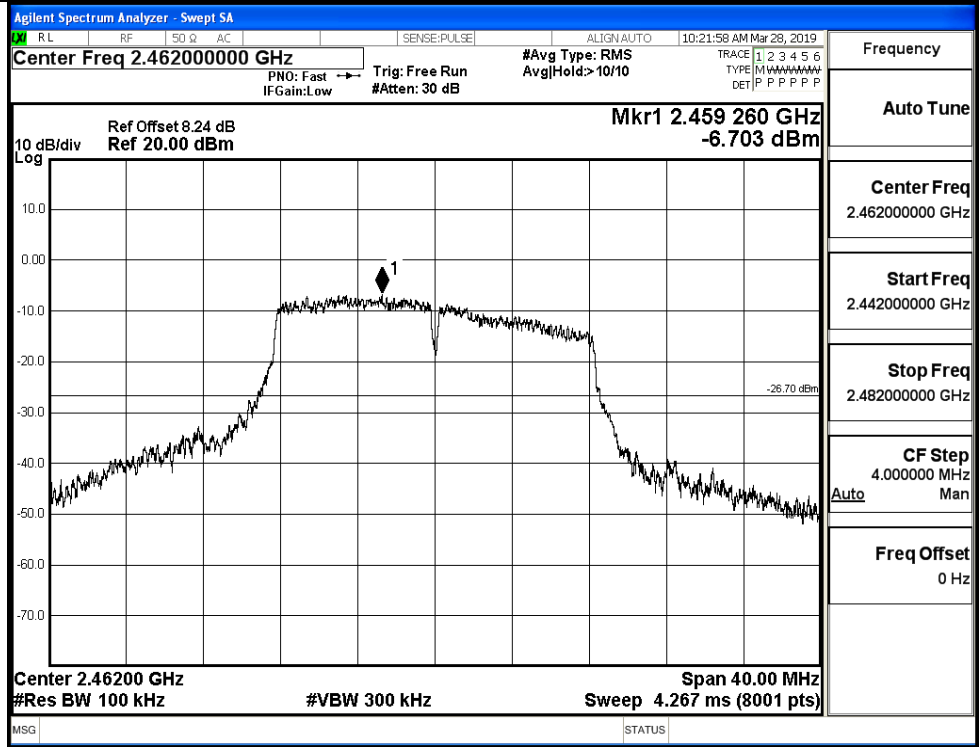


Puw/11G/MCH

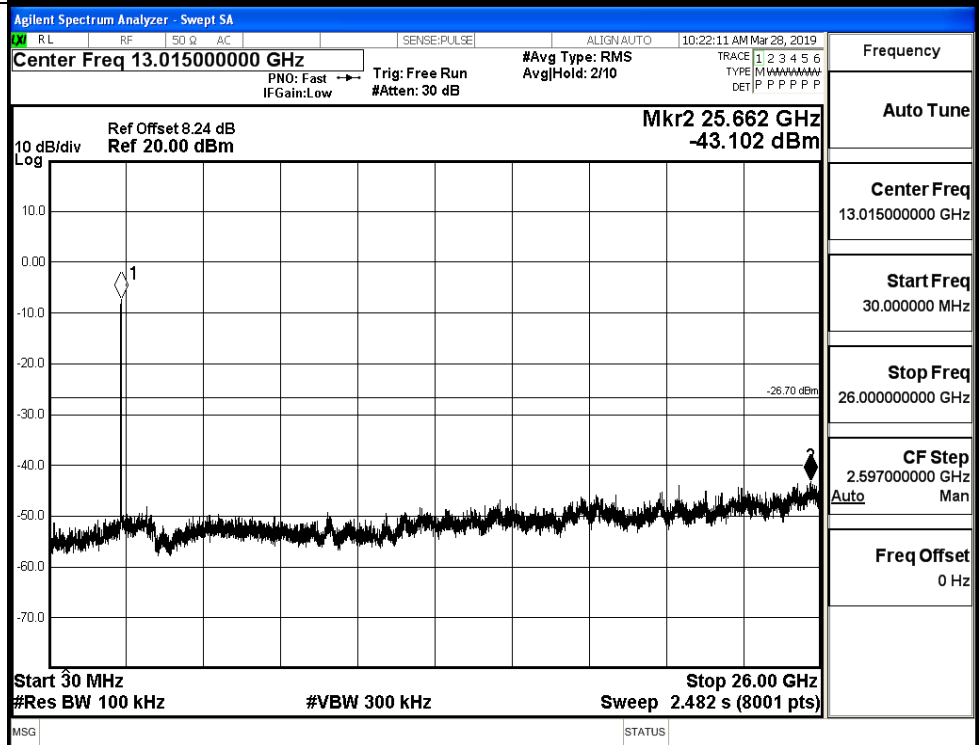


11G\_HCH\_Graphs

Pref/11G/HCH

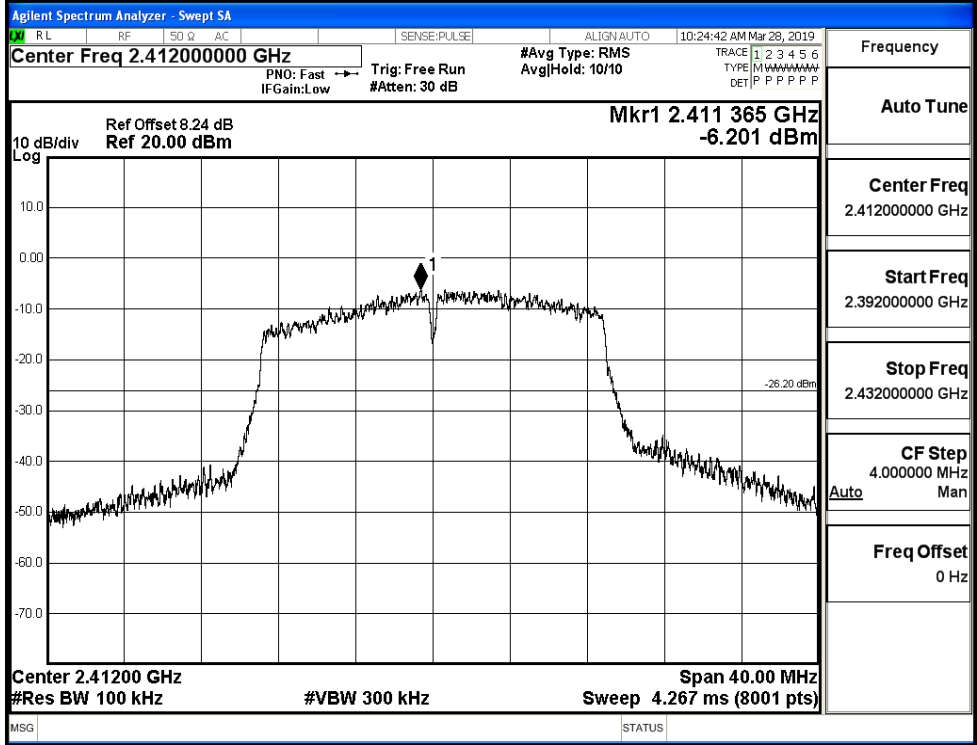


Puw/11G/HCH

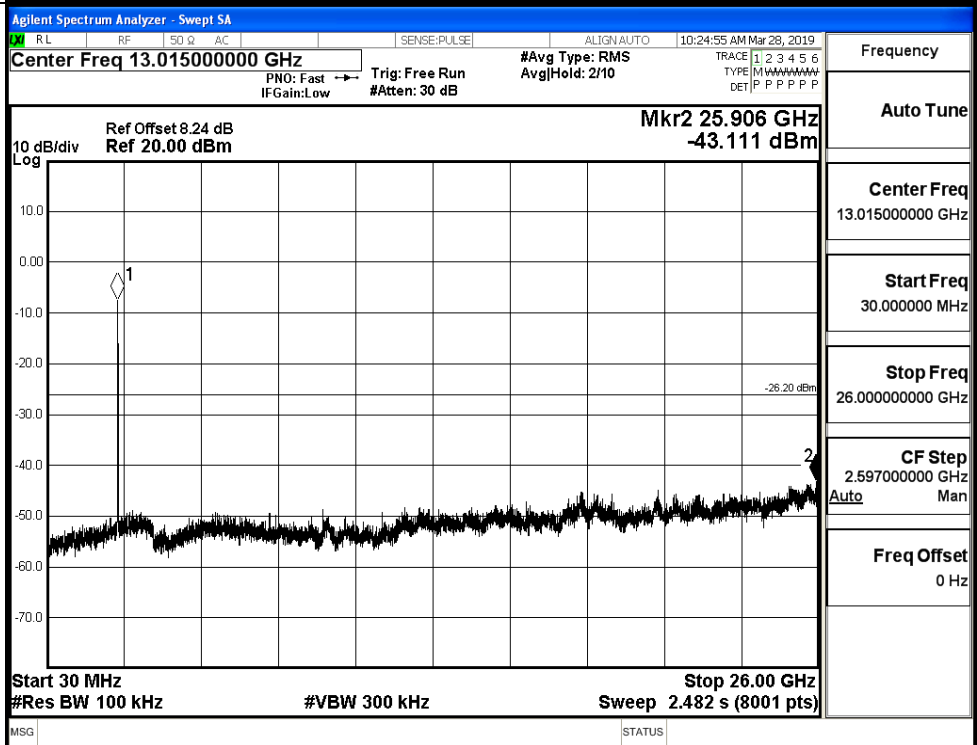


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

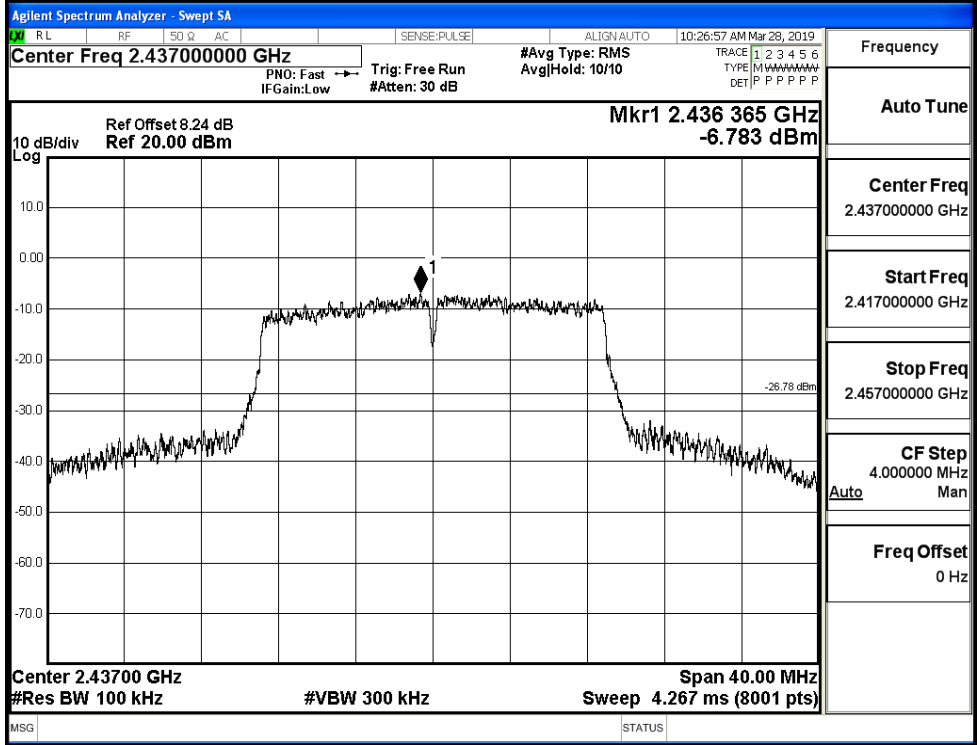


Puw/11N20  
SISO/LCH

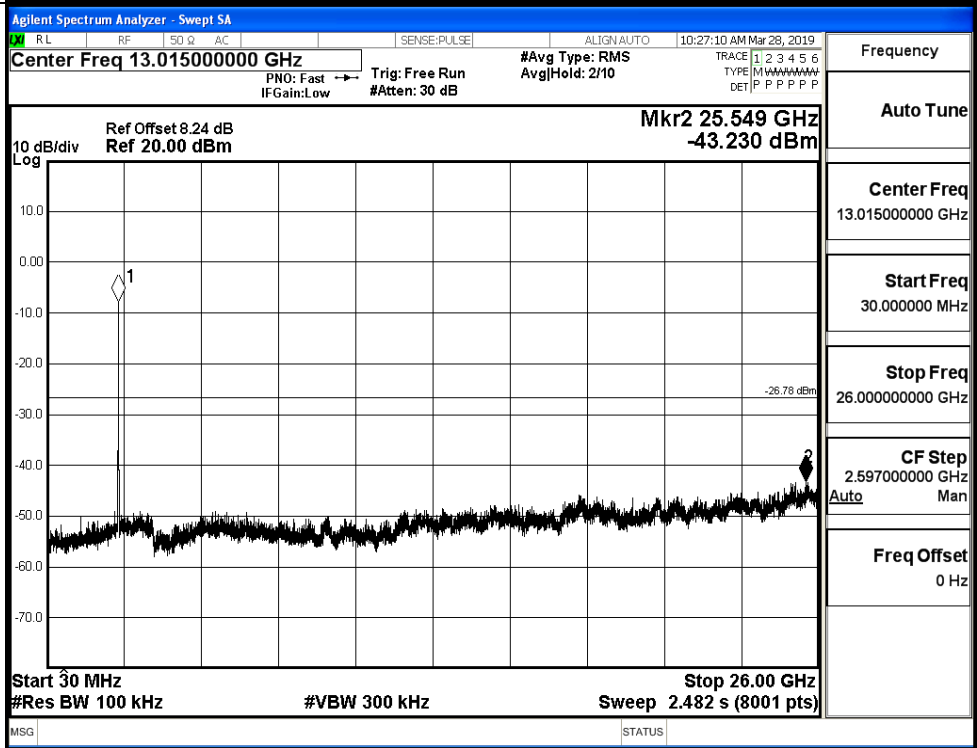


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

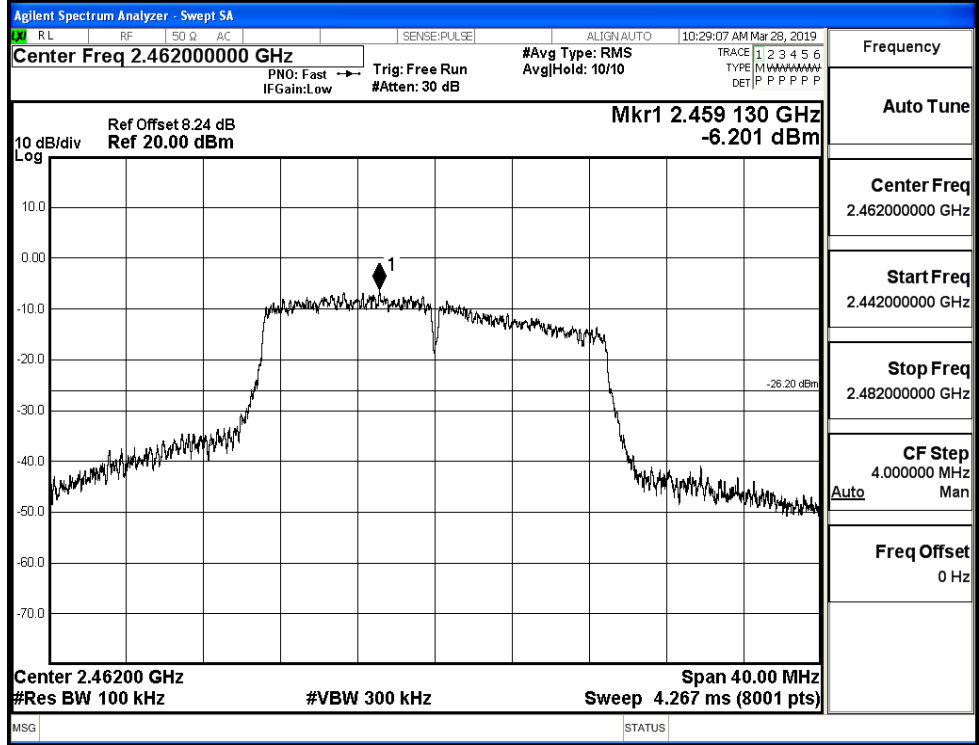


Puw/11N20  
SISO/MCH

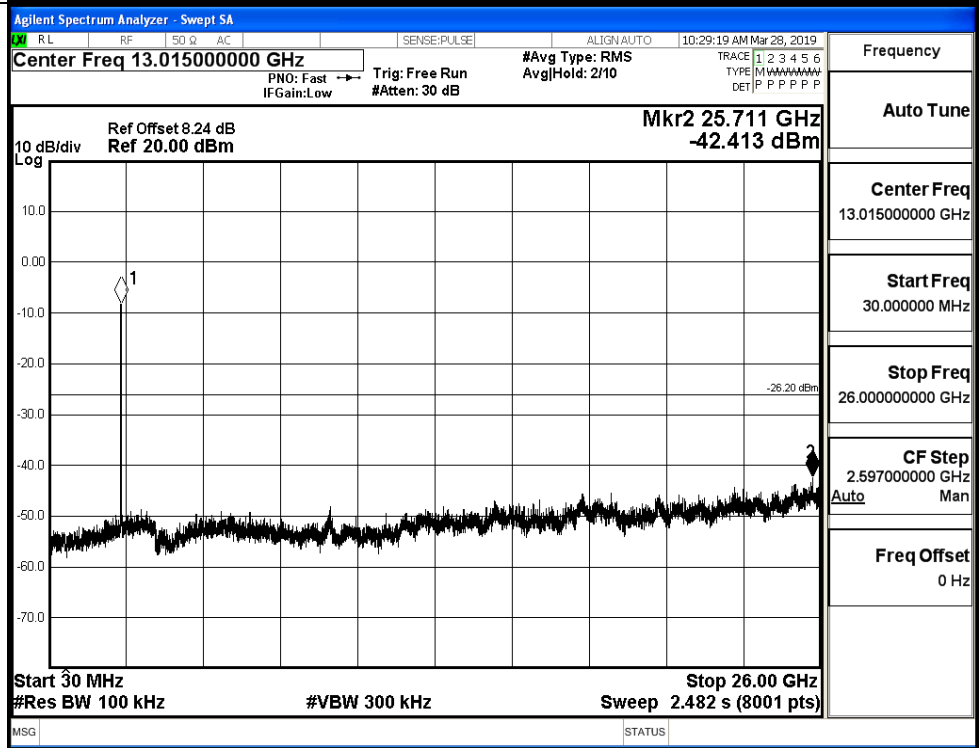


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

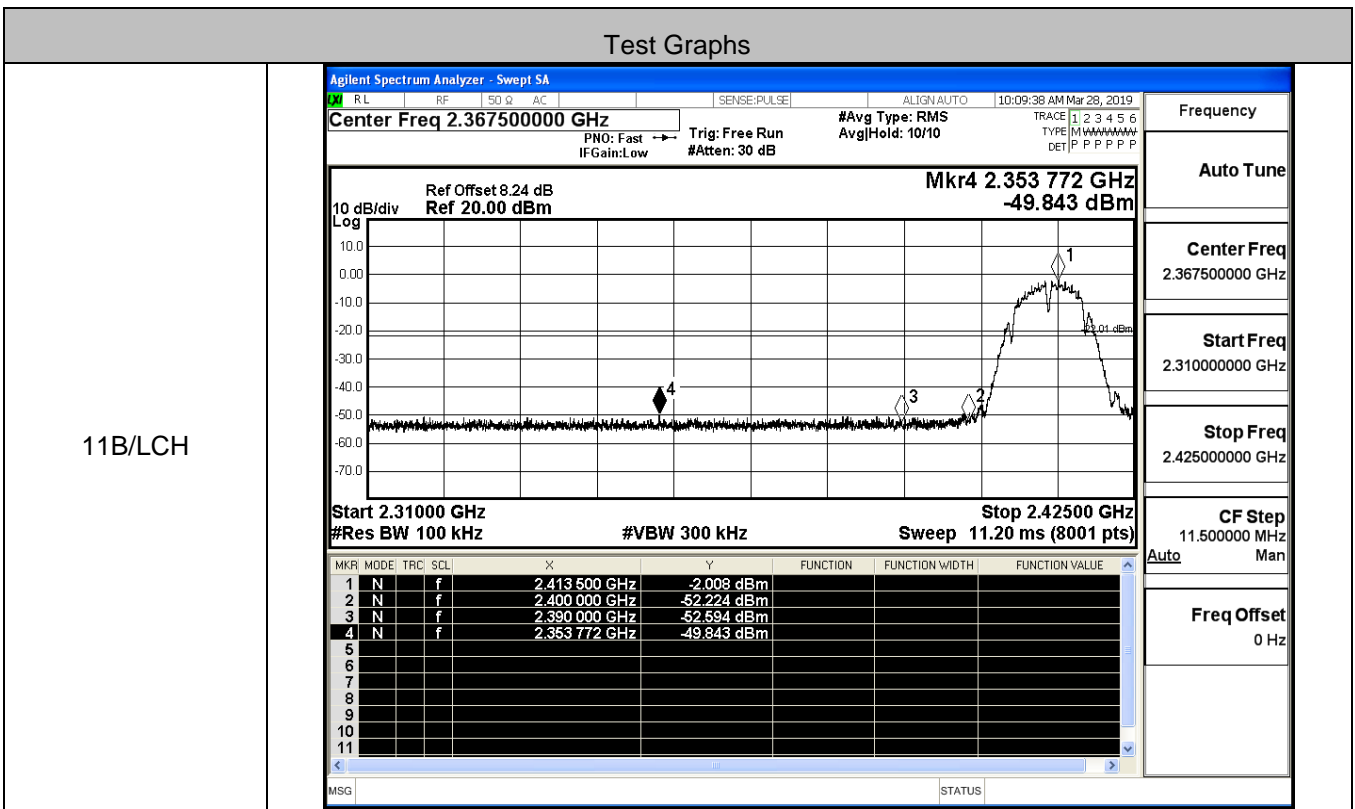


Puw/11N20  
SISO/HCH



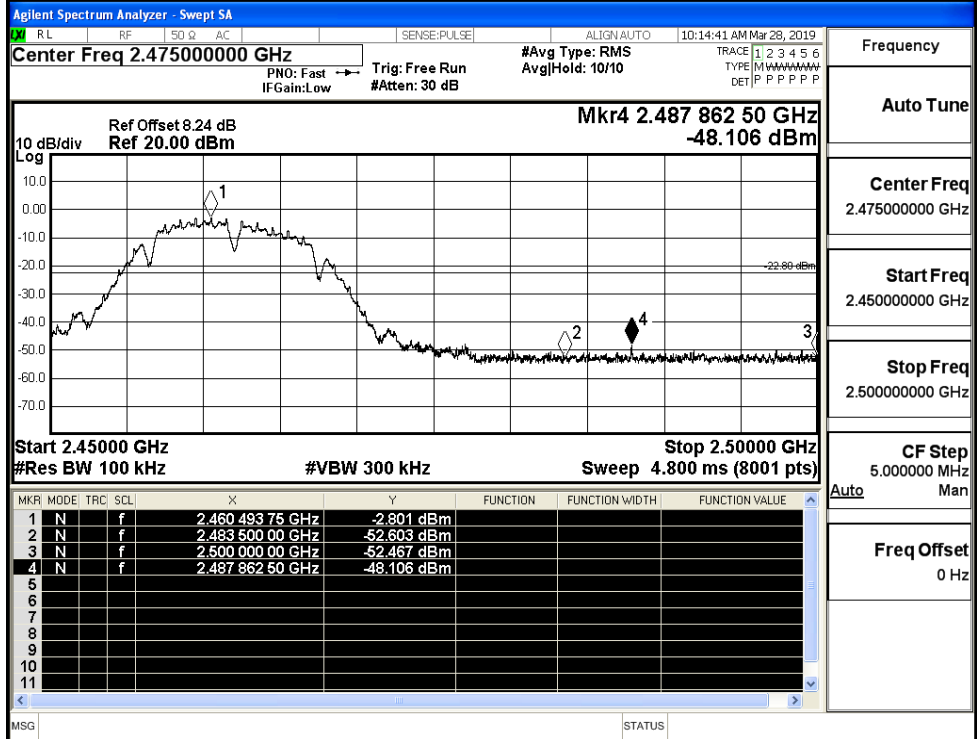
### C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.008	-49.843	-22.01	PASS
	HCH	-2.801	-48.106	-22.8	PASS
11G	LCH	-5.890	-48.605	-25.89	PASS
	HCH	-6.552	-48.486	-26.55	PASS
11N20SISO	LCH	-5.771	-50.021	-25.77	PASS
	HCH	-6.165	-47.531	-26.17	PASS





11B/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

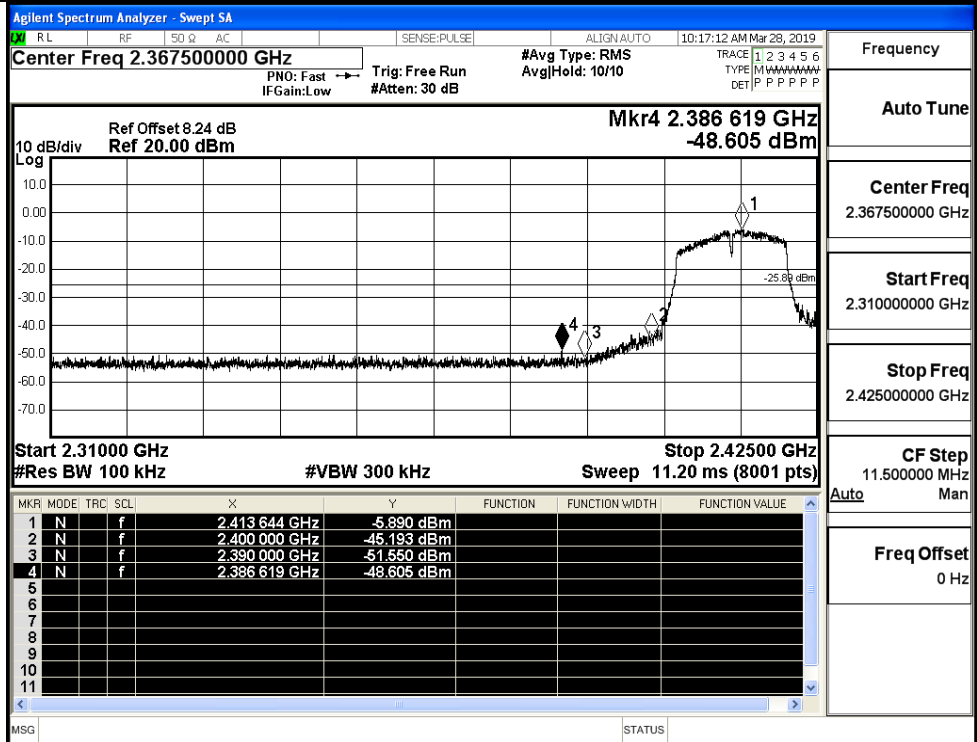
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq  
2.36750000 GHz

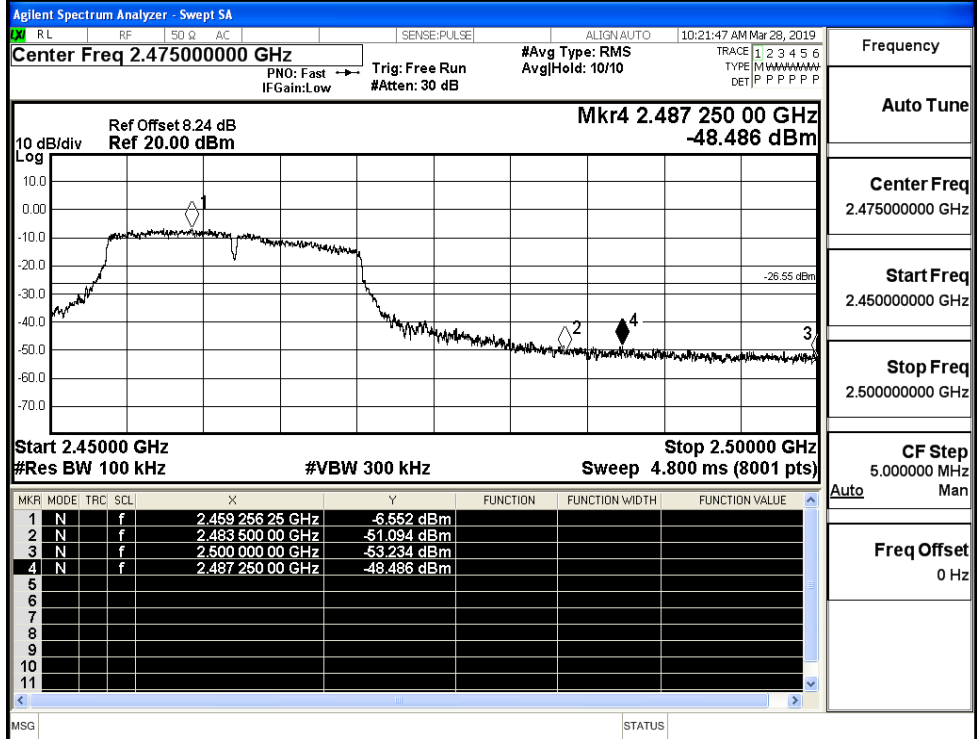
Start Freq  
2.31000000 GHz

Stop Freq  
2.42500000 GHz

CF Step  
11.500000 MHz

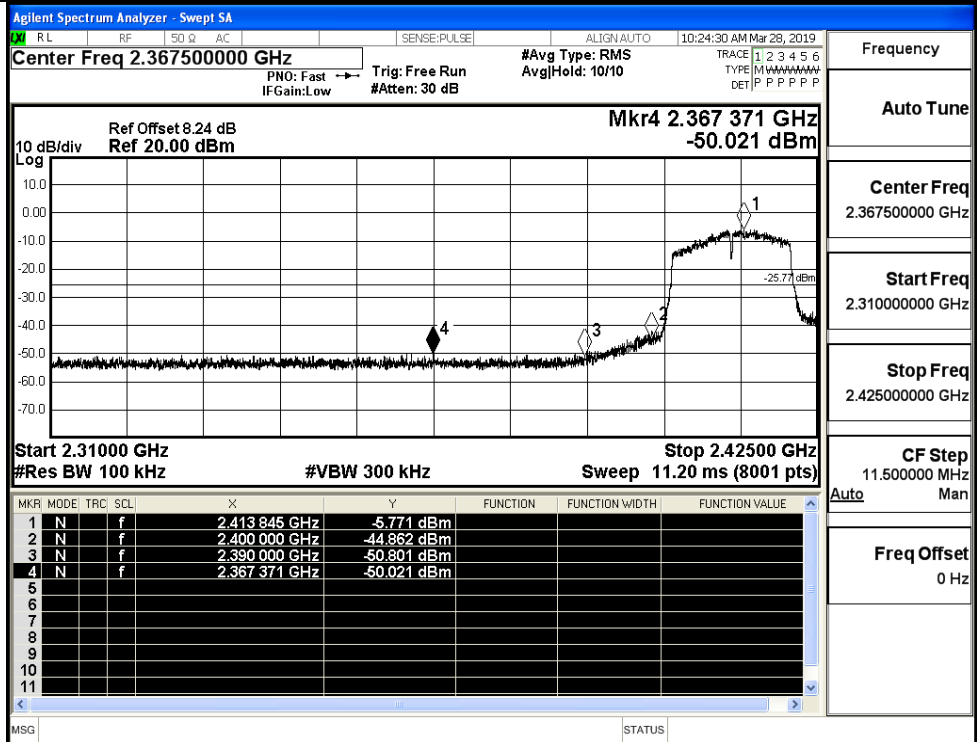
Freq Offset  
0 Hz

11G/HCH



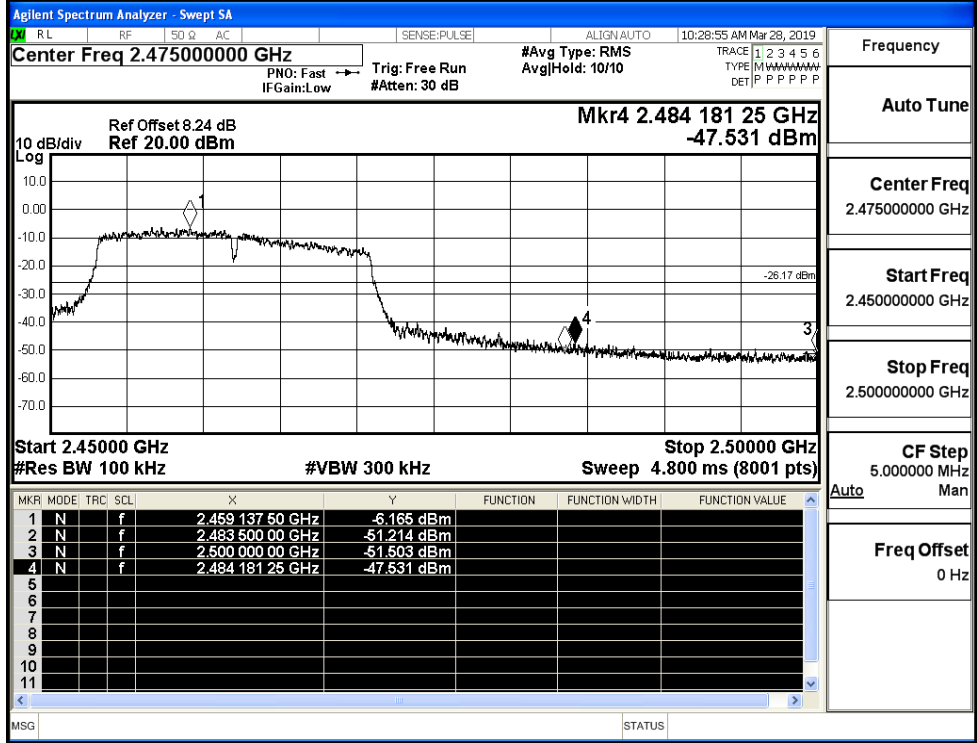
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



Frequency	2.36750000 GHz
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

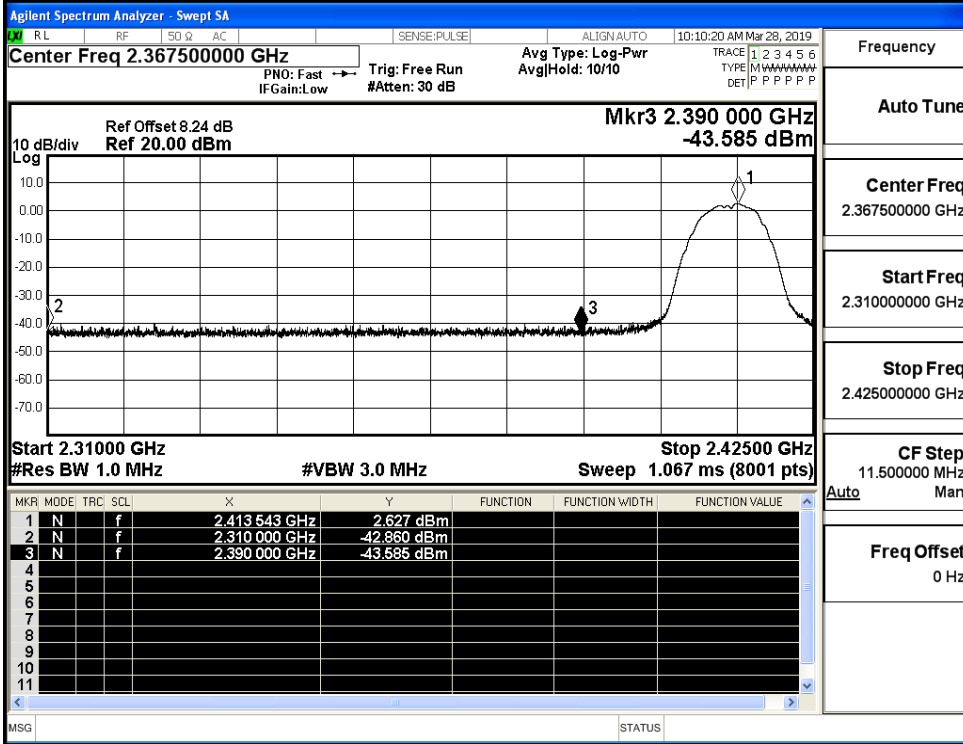
11N20SISO/HCH



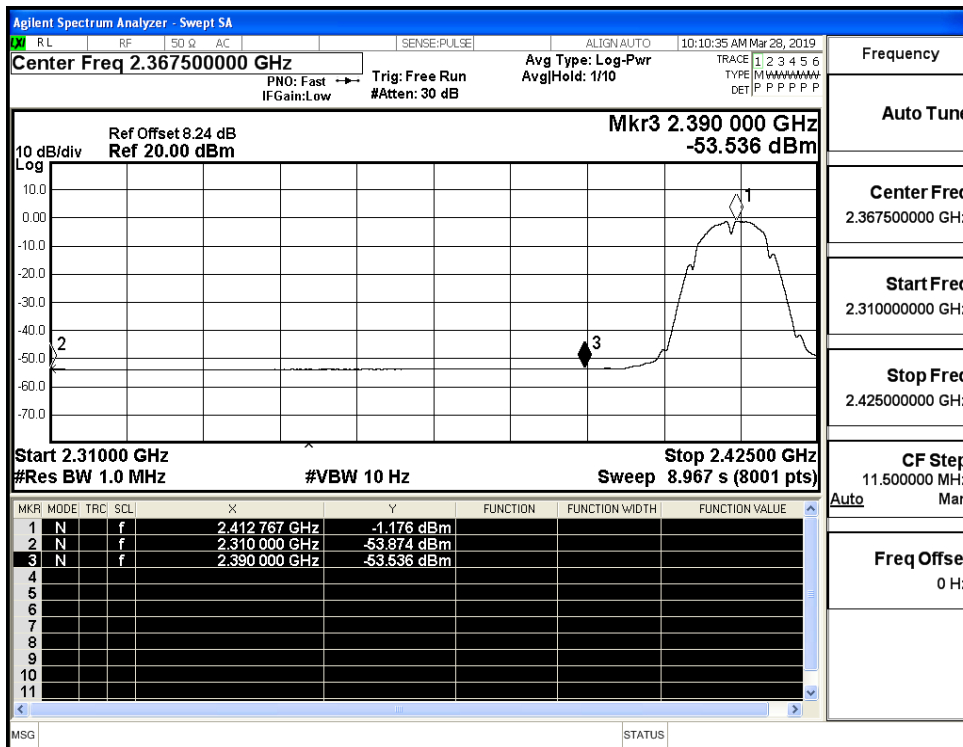
**C.7 Restrict-band band-edge measurements**

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-42.86	2.0	0	54.40	PEAK	74	PASS
	2412	Ant1	2310.0	-53.87	2.0	0	43.38	AV	54	PASS
	2412	Ant1	2390.0	-43.59	2.0	0	53.67	PEAK	74	PASS
	2412	Ant1	2390.0	-53.54	2.0	0	43.72	AV	54	PASS
	2462	Ant1	2483.5	-42.74	2.0	0	54.52	PEAK	74	PASS
	2462	Ant1	2483.5	-53.09	2.0	0	44.16	AV	54	PASS
	2462	Ant1	2500.0	-42.08	2.0	0	55.18	PEAK	74	PASS
	2462	Ant1	2500.0	-53.17	2.0	0	44.09	AV	54	PASS
11G	2412	Ant1	2310.0	-42.92	2.0	0	54.34	PEAK	74	PASS
	2412	Ant1	2310.0	-53.84	2.0	0	43.42	AV	54	PASS
	2412	Ant1	2390.0	-41.24	2.0	0	56.02	PEAK	74	PASS
	2412	Ant1	2390.0	-52.85	2.0	0	44.41	AV	54	PASS
	2462	Ant1	2483.5	-38.09	2.0	0	59.17	PEAK	74	PASS
	2462	Ant1	2483.5	-51.11	2.0	0	46.14	AV	54	PASS
	2462	Ant1	2500.0	-41.35	2.0	0	55.90	PEAK	74	PASS
	2462	Ant1	2500.0	-53.02	2.0	0	44.24	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.67	2.0	0	53.59	PEAK	74	PASS
	2412	Ant1	2310.0	-53.78	2.0	0	43.48	AV	54	PASS
	2412	Ant1	2390.0	-42.35	2.0	0	54.90	PEAK	74	PASS
	2412	Ant1	2390.0	-52.46	2.0	0	44.80	AV	54	PASS
	2462	Ant1	2483.5	-37.49	2.0	0	59.77	PEAK	74	PASS
	2462	Ant1	2483.5	-50.55	2.0	0	46.71	AV	54	PASS
	2462	Ant1	2500.0	-43.74	2.0	0	53.52	PEAK	74	PASS
	2462	Ant1	2500.0	-53.03	2.0	0	44.23	AV	54	PASS

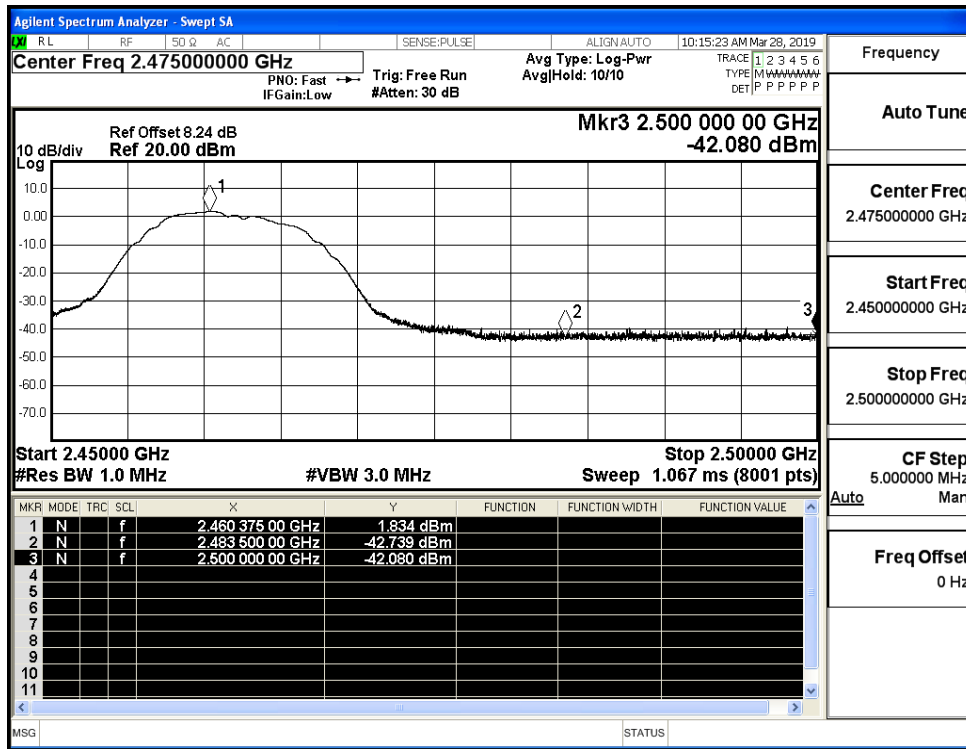
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



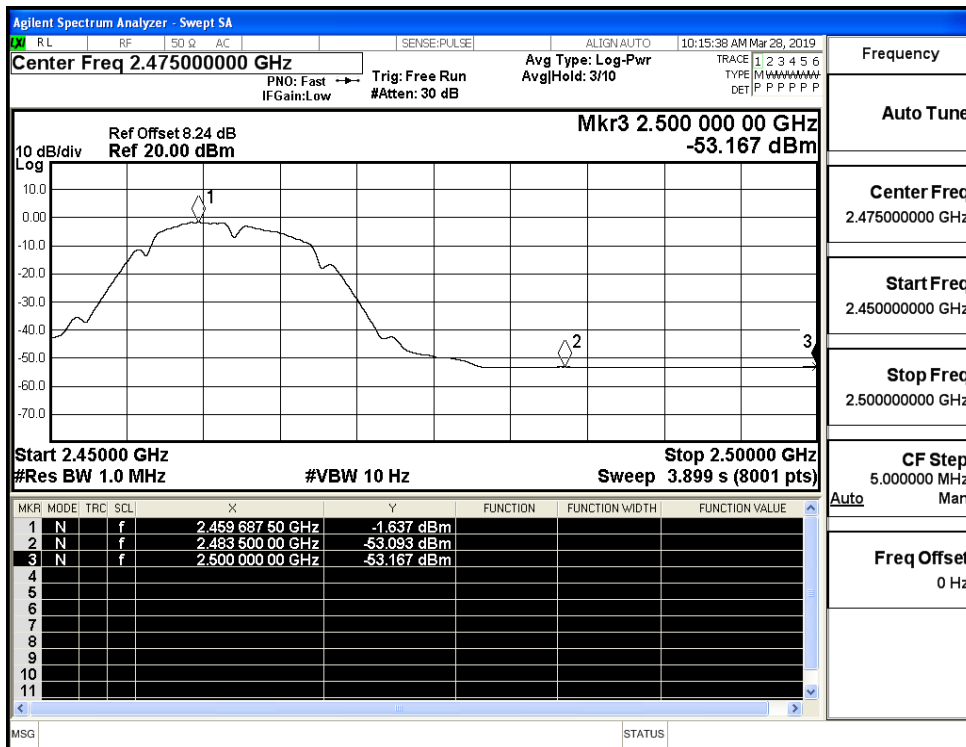
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



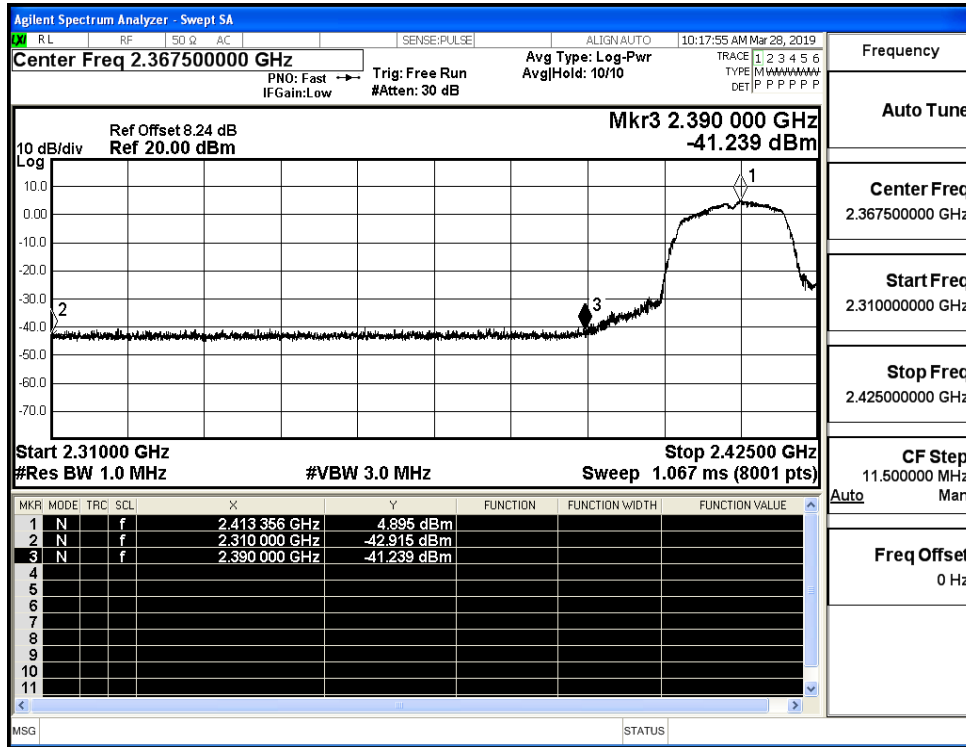
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



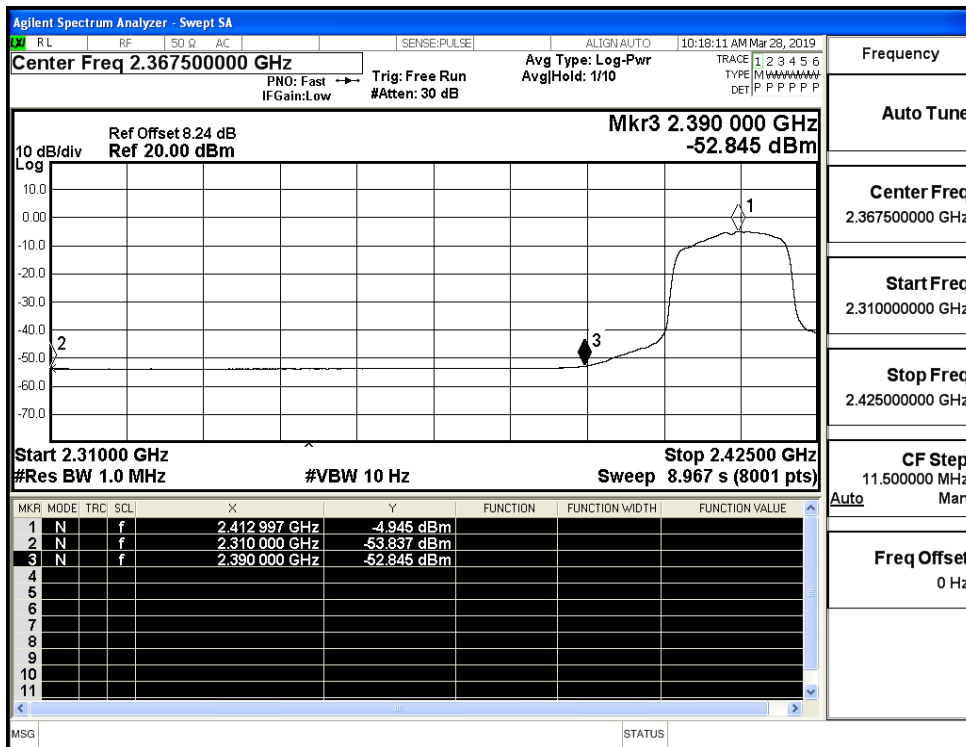
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



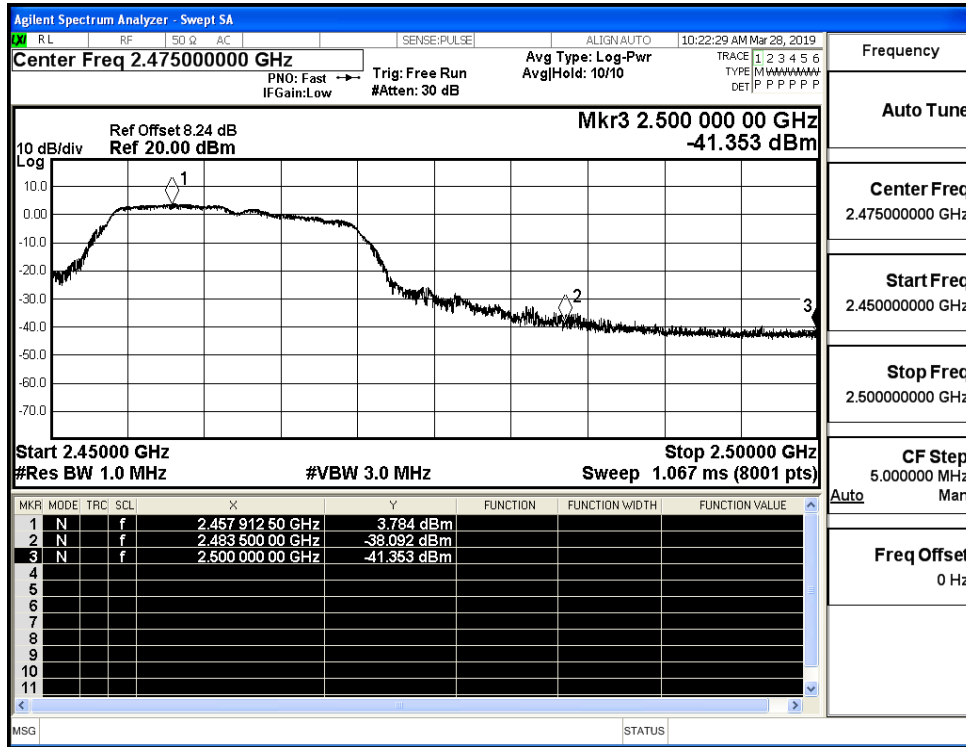
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



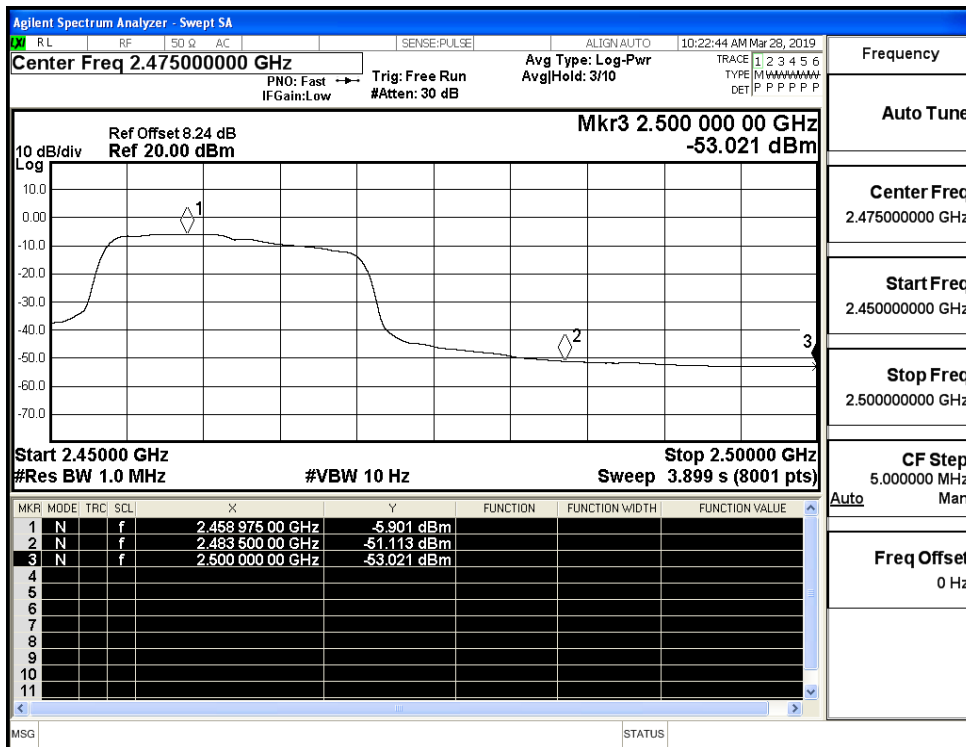
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK

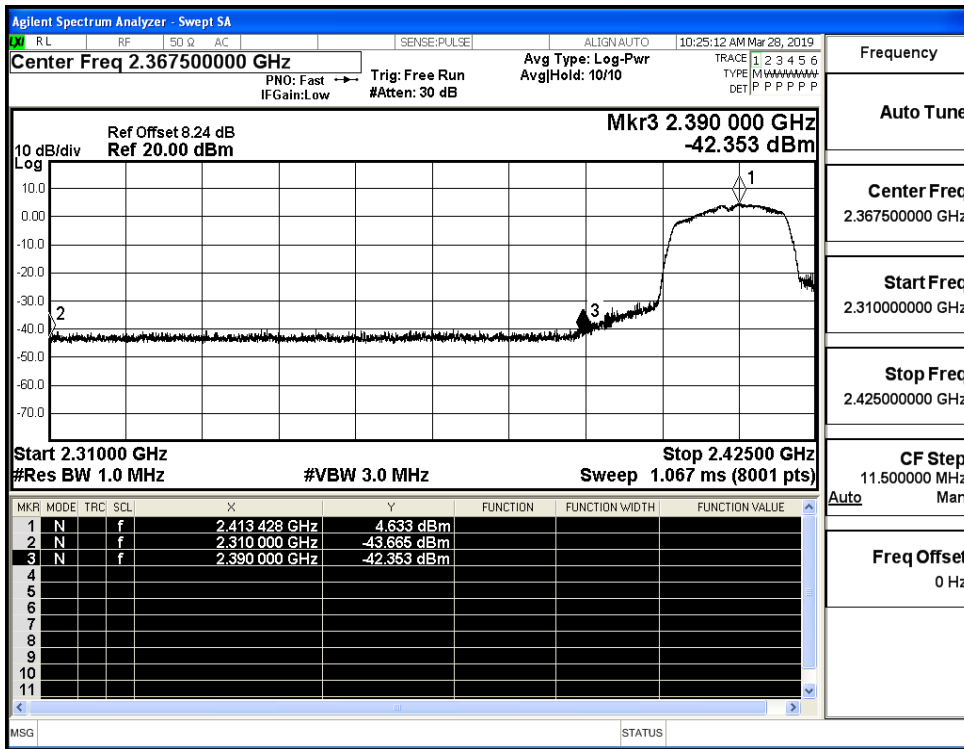


Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV

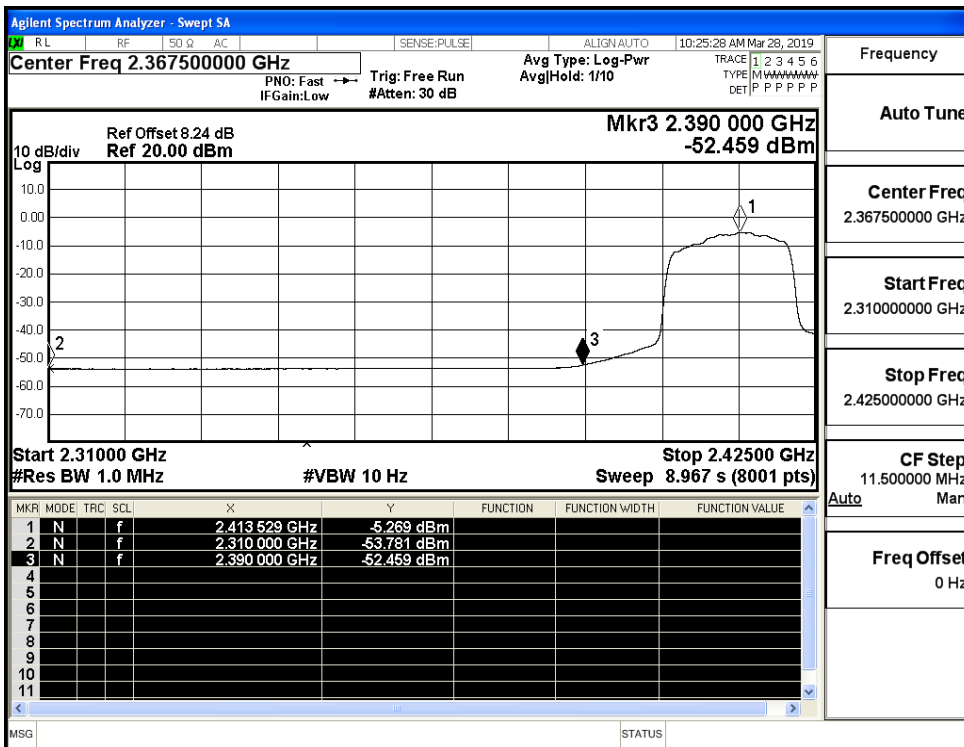




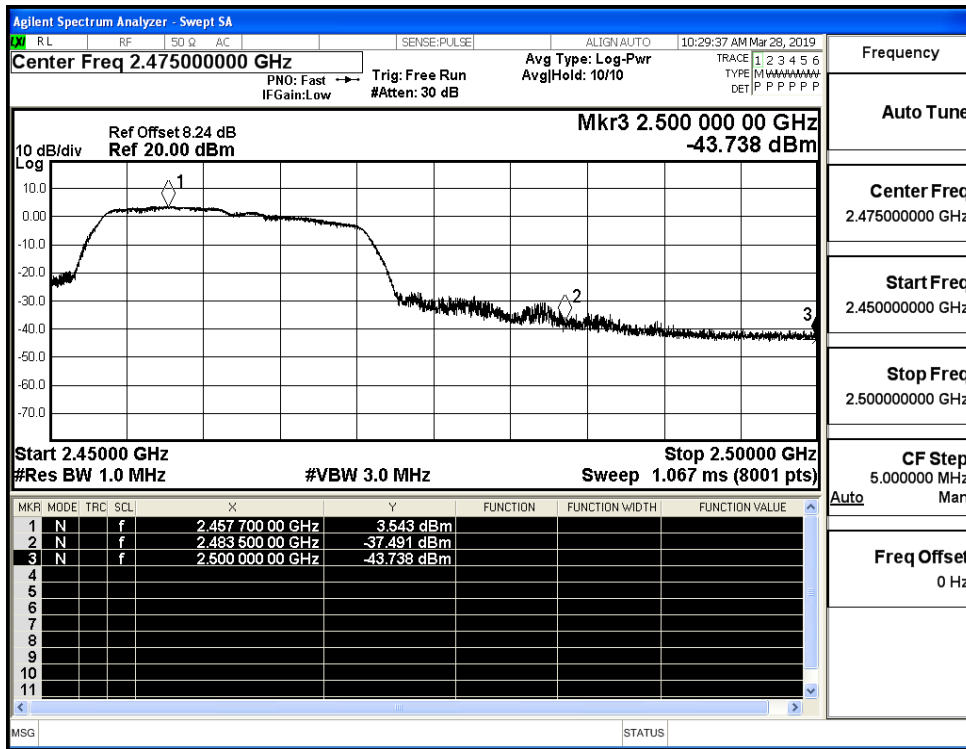
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV

