

## Appendix B

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

Product Name: Tablet PC

Trade Mark: NetThings

Test Model: F716XR

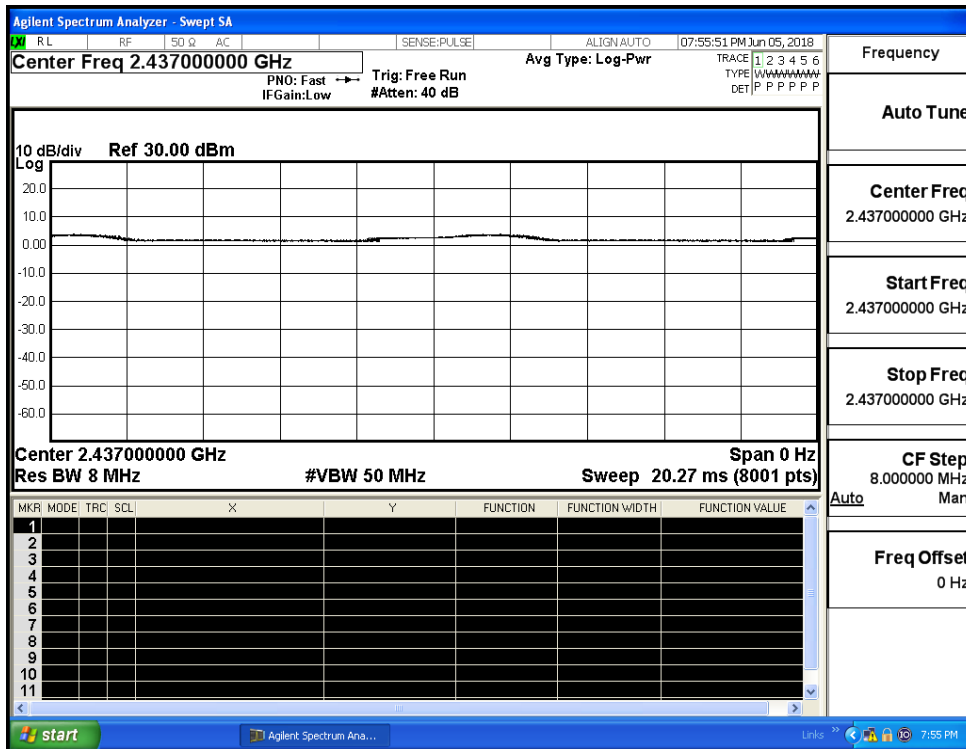
#### Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	56.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden.Zhuo

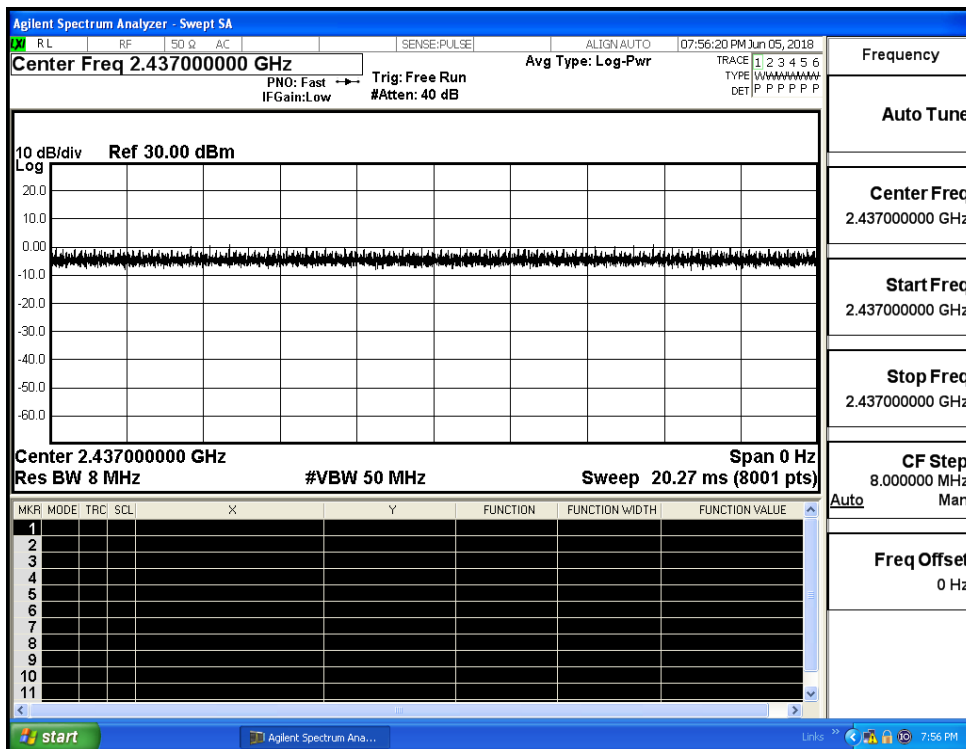
#### B.1 Duty Cycle

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

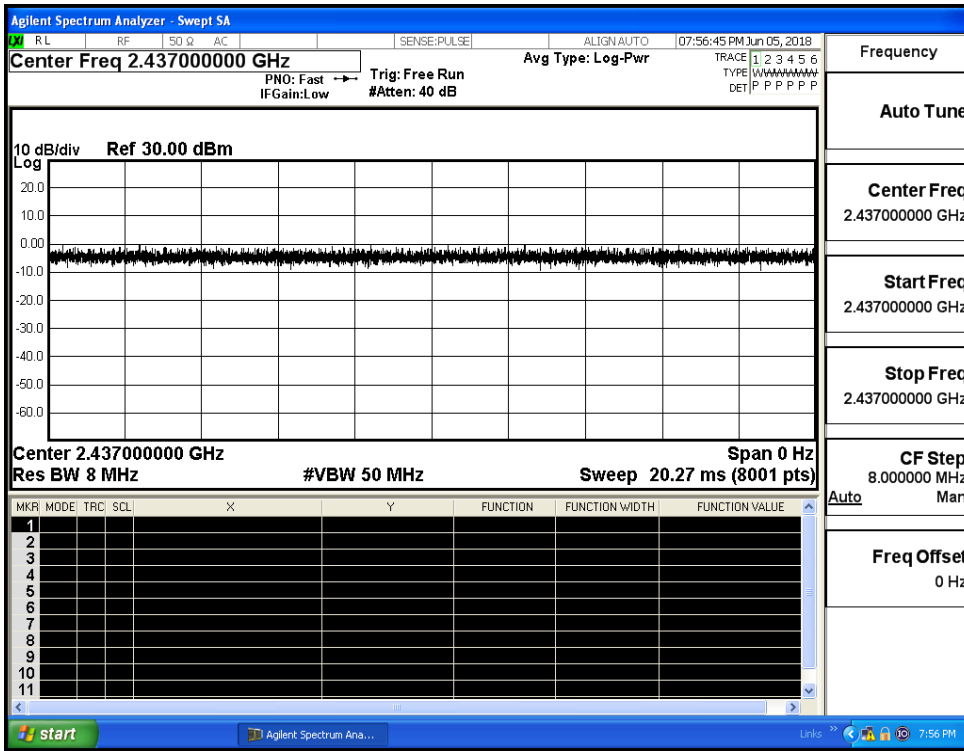
Duty Cycle\_11B\_2437\_Ant1



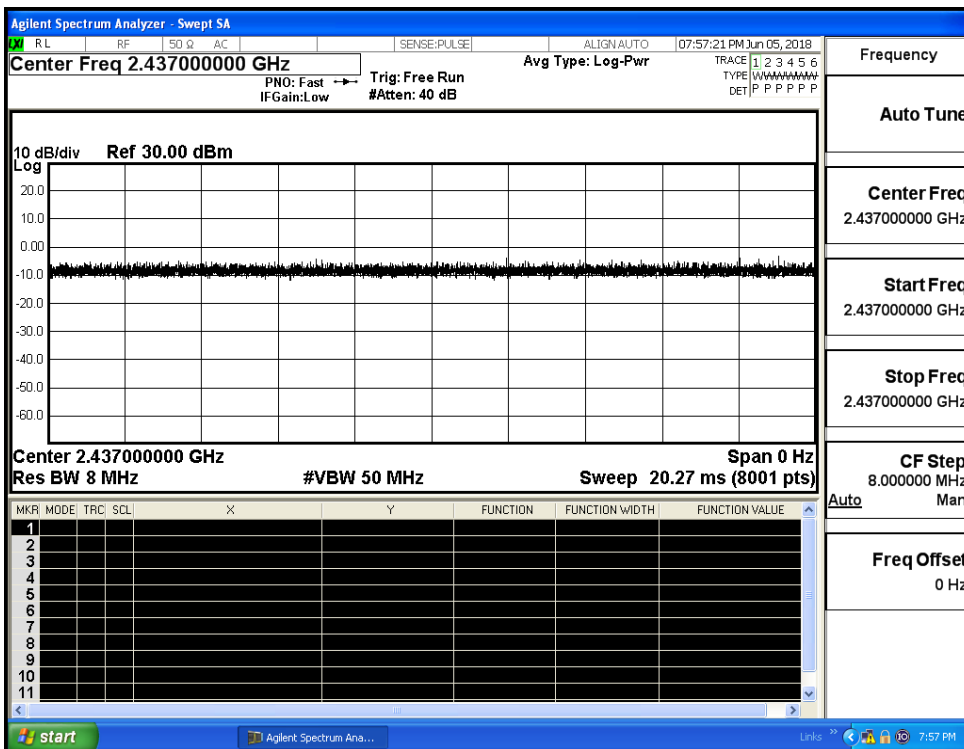
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1

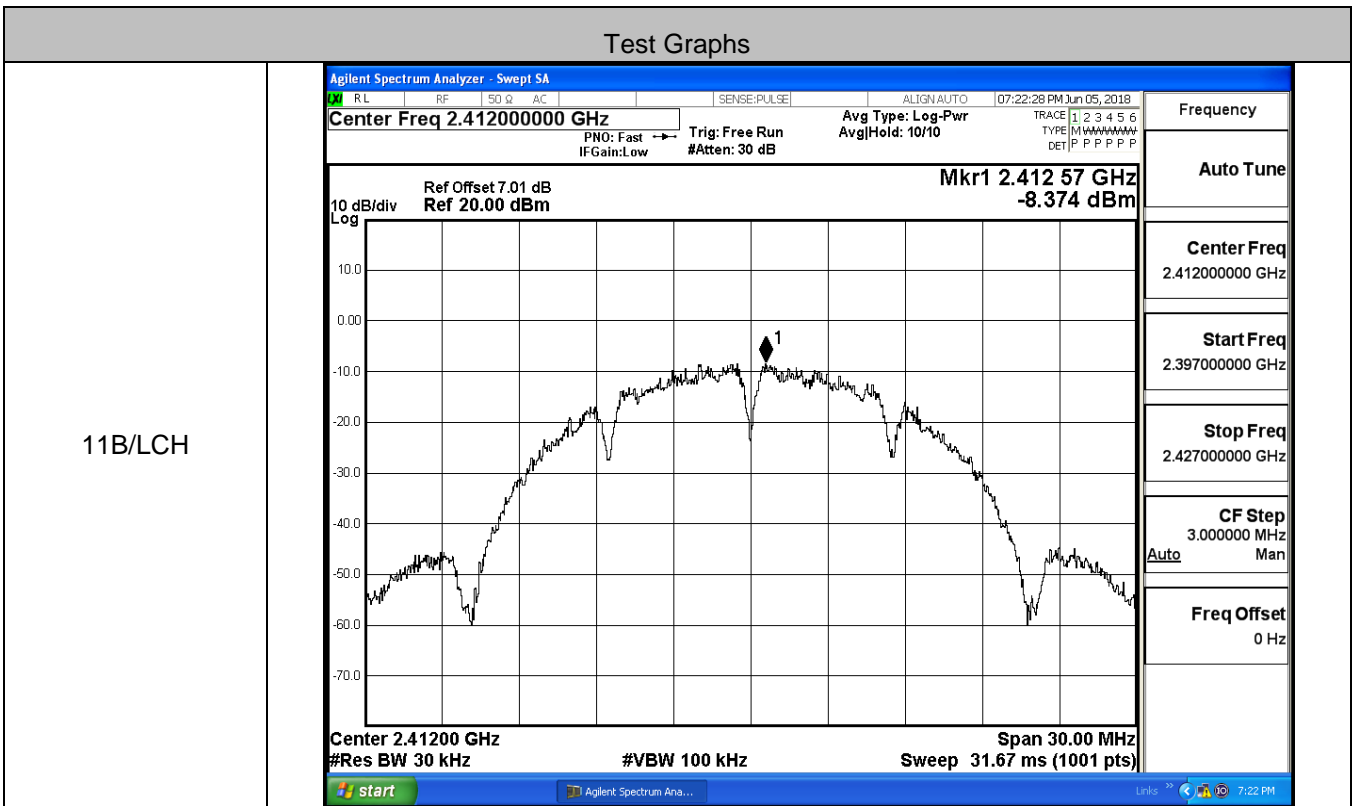


**B.2 Maximum Conducted Output Peak Power**

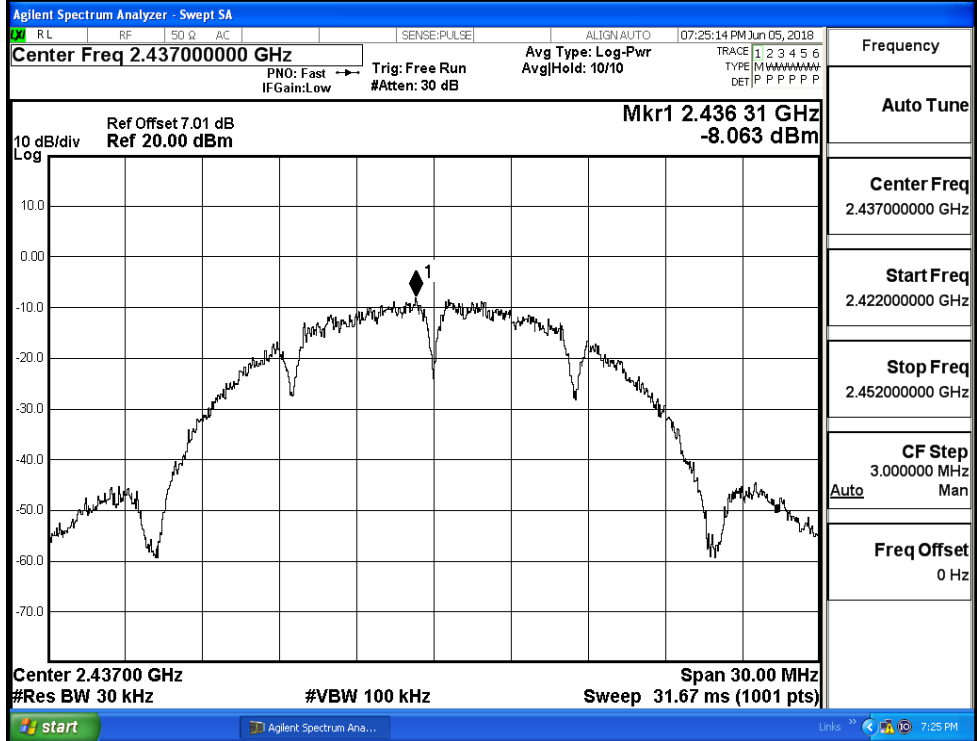
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	11.15	30	PASS
	MCH	11.28	30	PASS
	HCH	11.31	30	PASS
11G	LCH	12.51	30	PASS
	MCH	12.13	30	PASS
	HCH	12.55	30	PASS
11N20SISO	LCH	13.22	30	PASS
	MCH	13.41	30	PASS
	HCH	12.91	30	PASS
11N40SISO	LCH	14.27	30	PASS
	MCH	14.55	30	PASS
	HCH	14.92	30	PASS

### B.3 Maximum Power Spectral Density

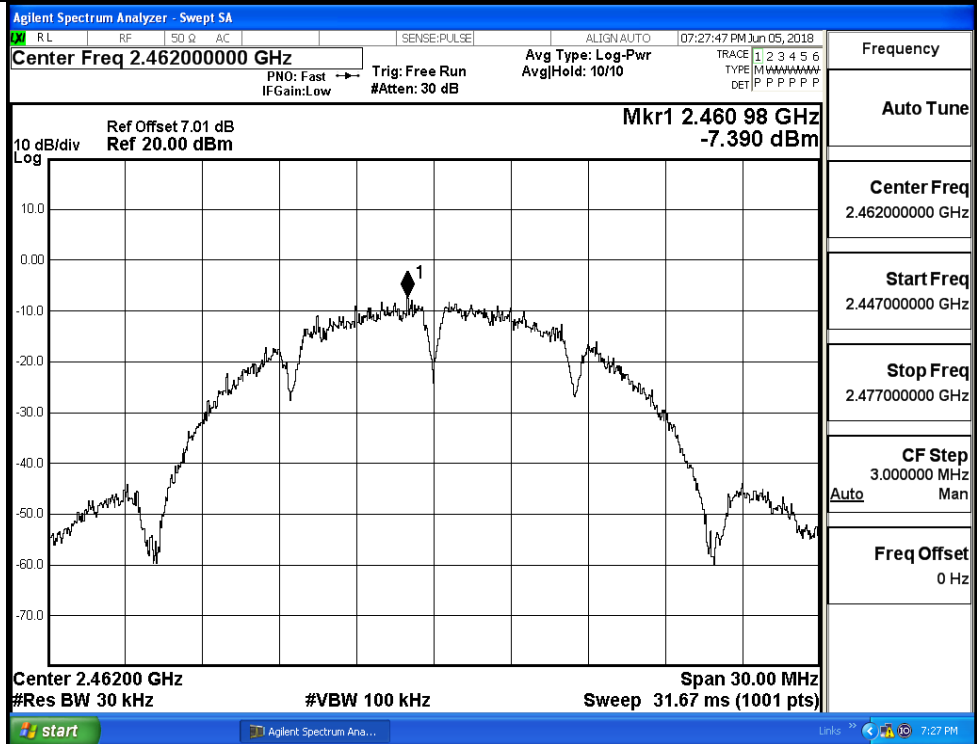
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-8.374	8	PASS
	MCH	-8.063	8	PASS
	HCH	-7.390	8	PASS
11G	LCH	-16.036	8	PASS
	MCH	-14.991	8	PASS
	HCH	-14.614	8	PASS
11N20SISO	LCH	-15.625	8	PASS
	MCH	-15.950	8	PASS
	HCH	-15.049	8	PASS
11N40SISO	LCH	-19.556	8	PASS
	MCH	-19.020	8	PASS
	HCH	-18.875	8	PASS



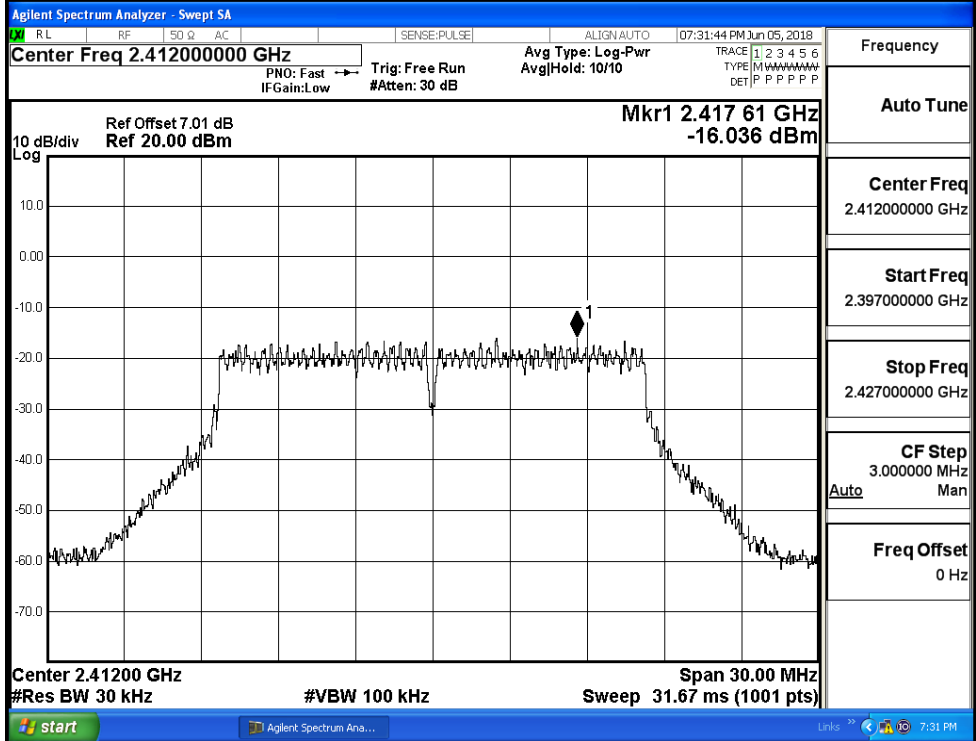
11B/MCH



11B/HCH

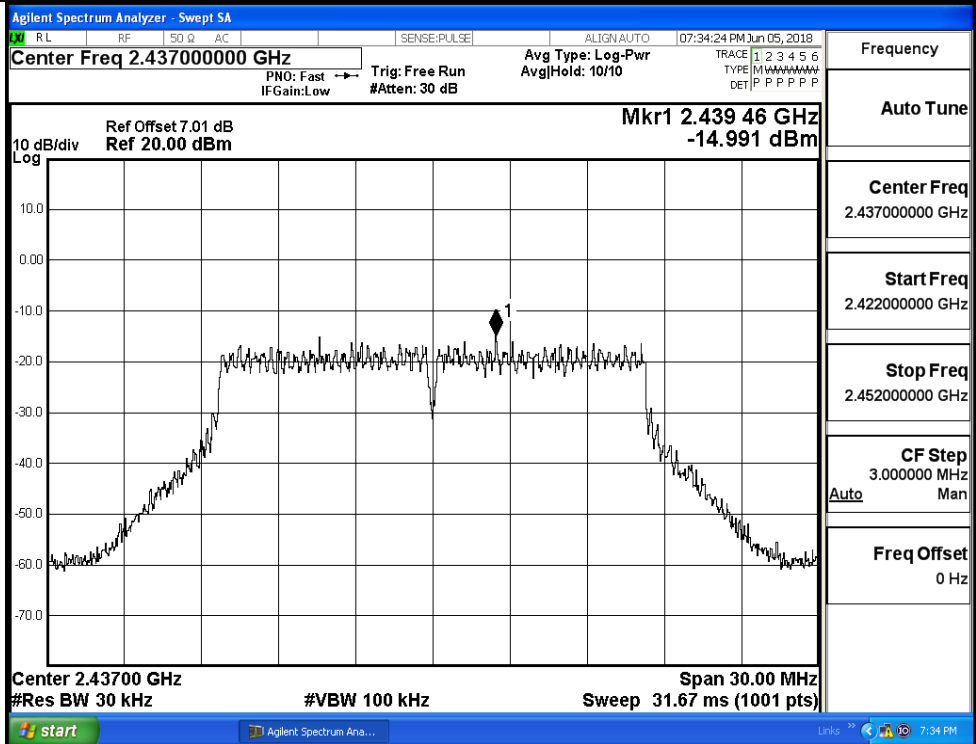


11G/LCH



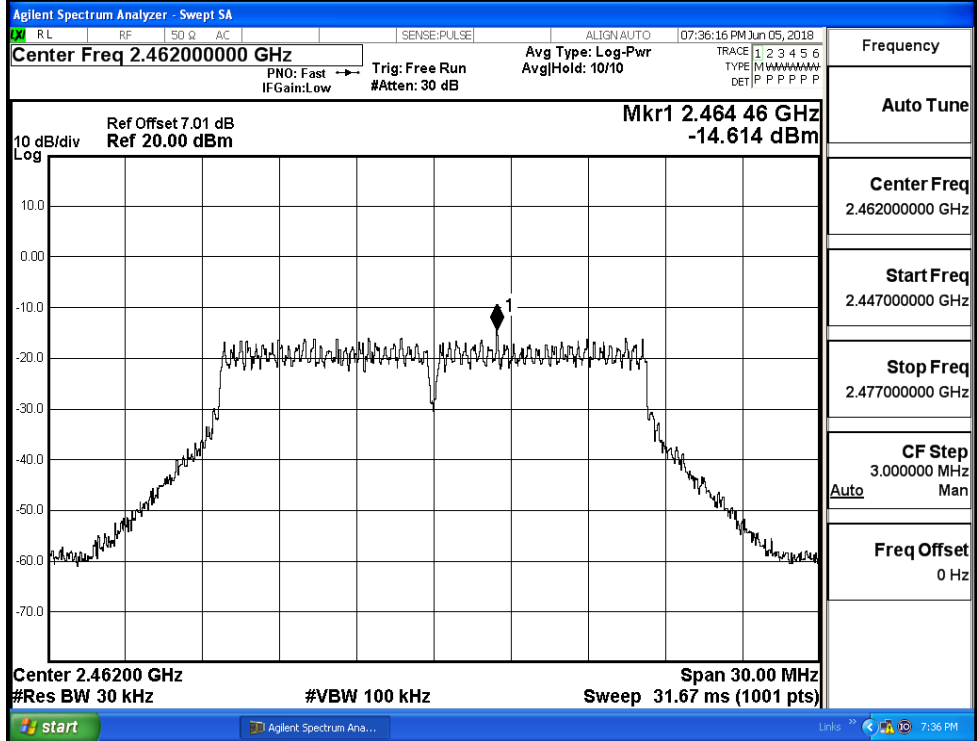
Frequency
Auto Tune
Center Freq 2.41200000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/MCH



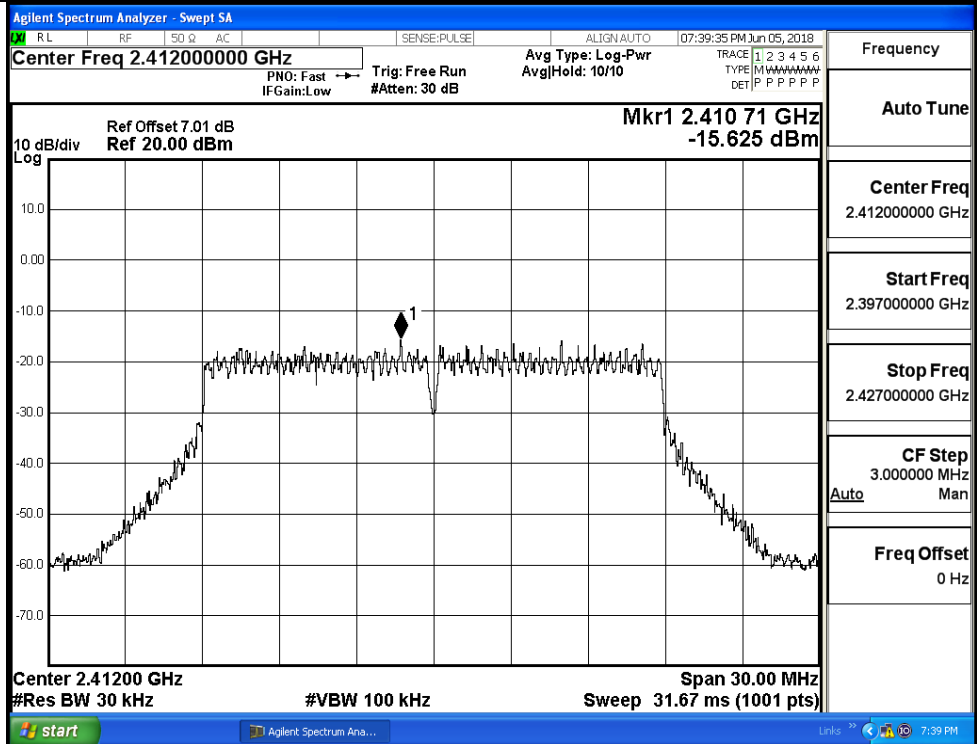
Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/HCH



Frequency
Auto Tune
Center Freq 2.462000000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

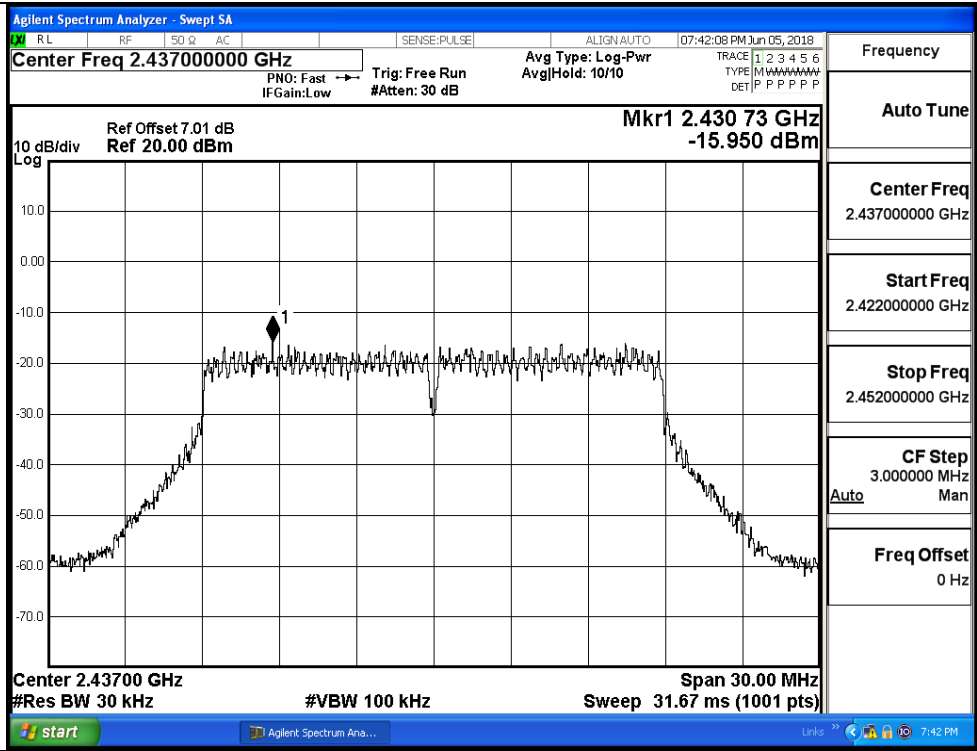
11N20SISO/LCH



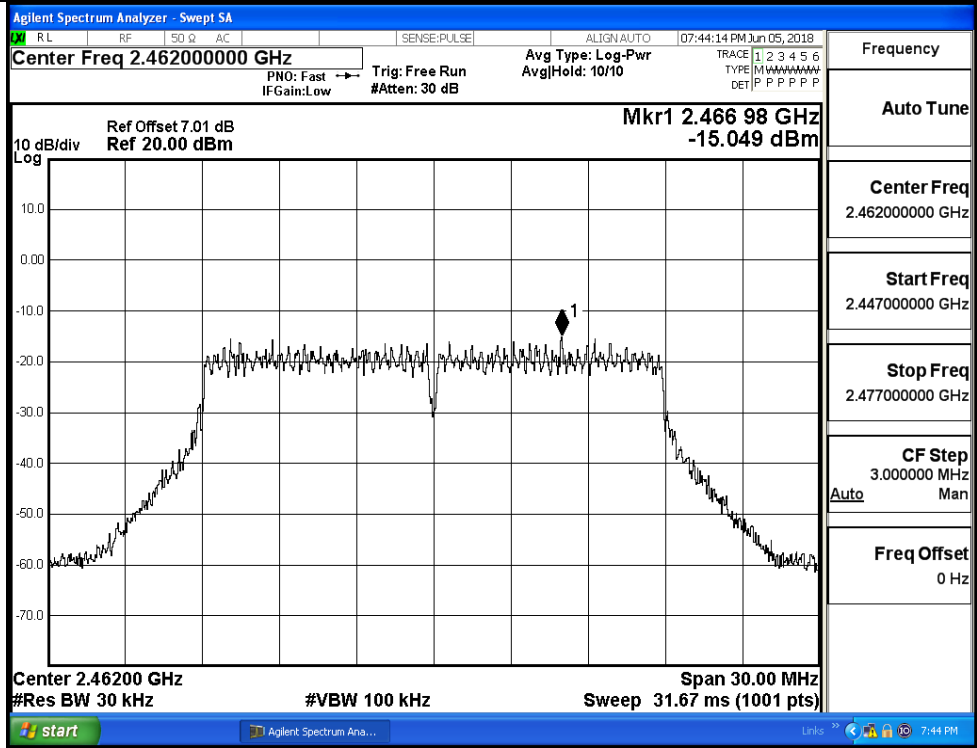
Frequency
Auto Tune
Center Freq 2.412000000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz



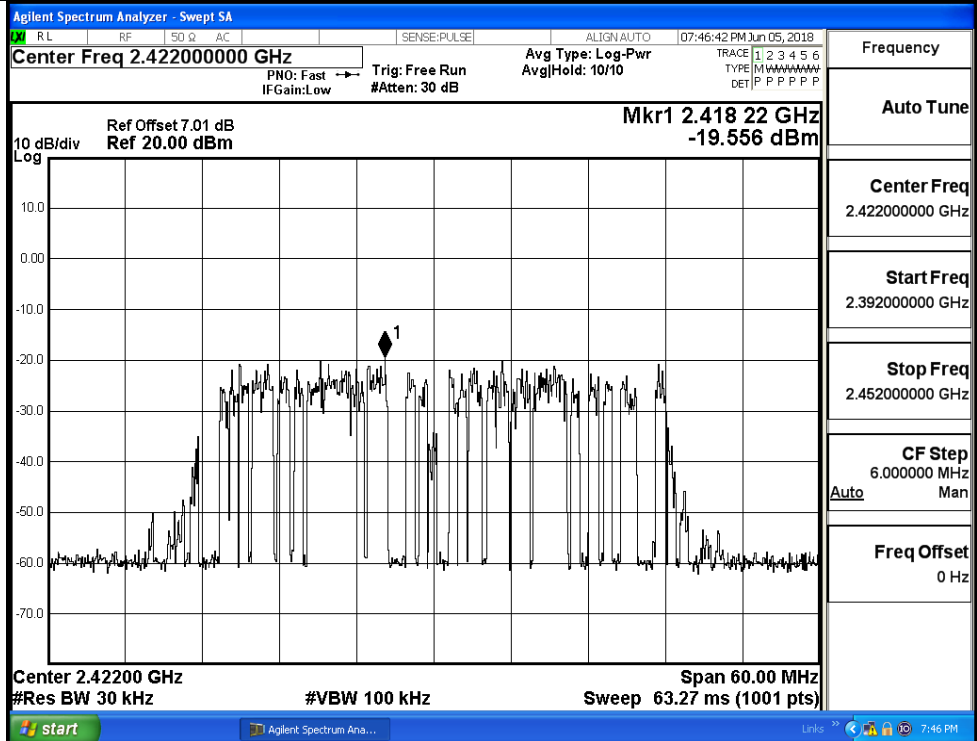
11N20SISO/MCH



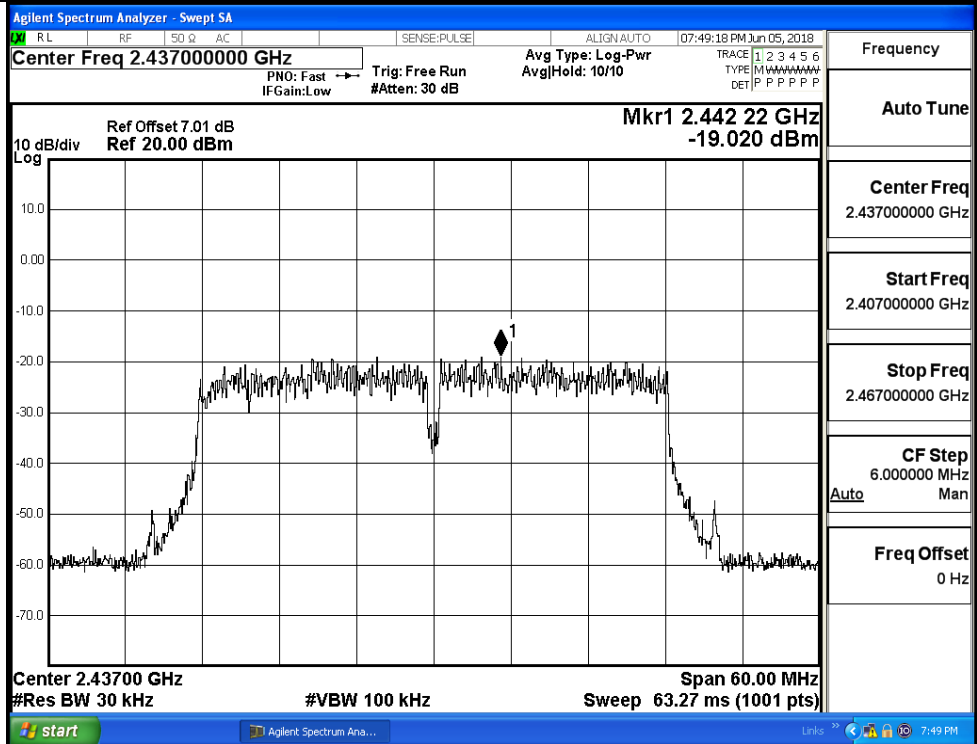
11N20SISO/HCH



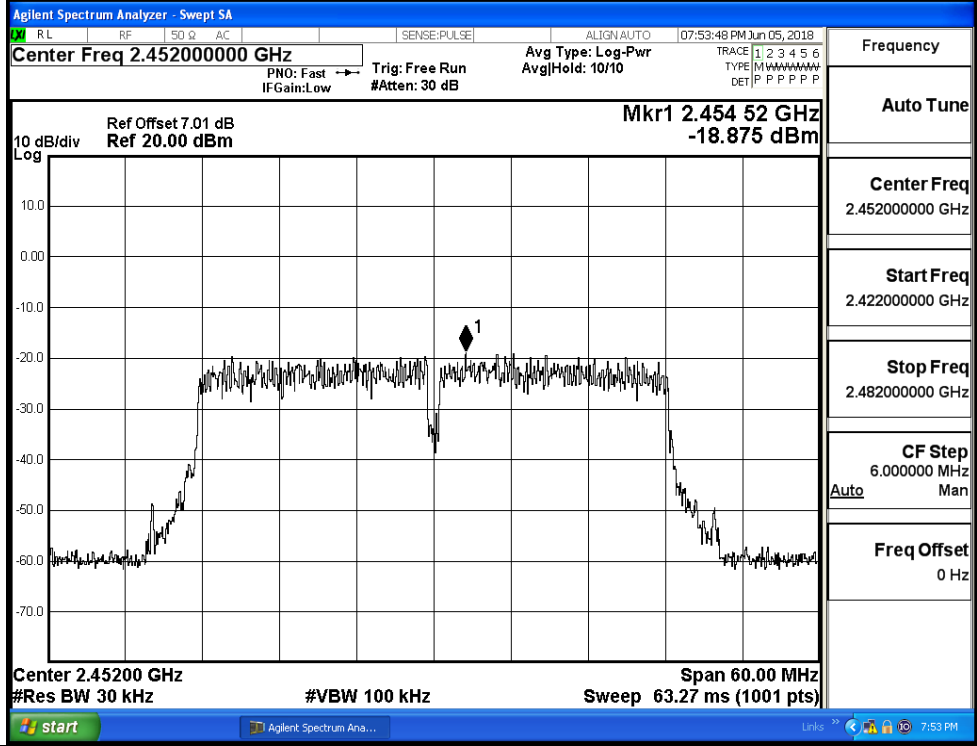
11N40SISO/LCH



11N40SISO/MCH



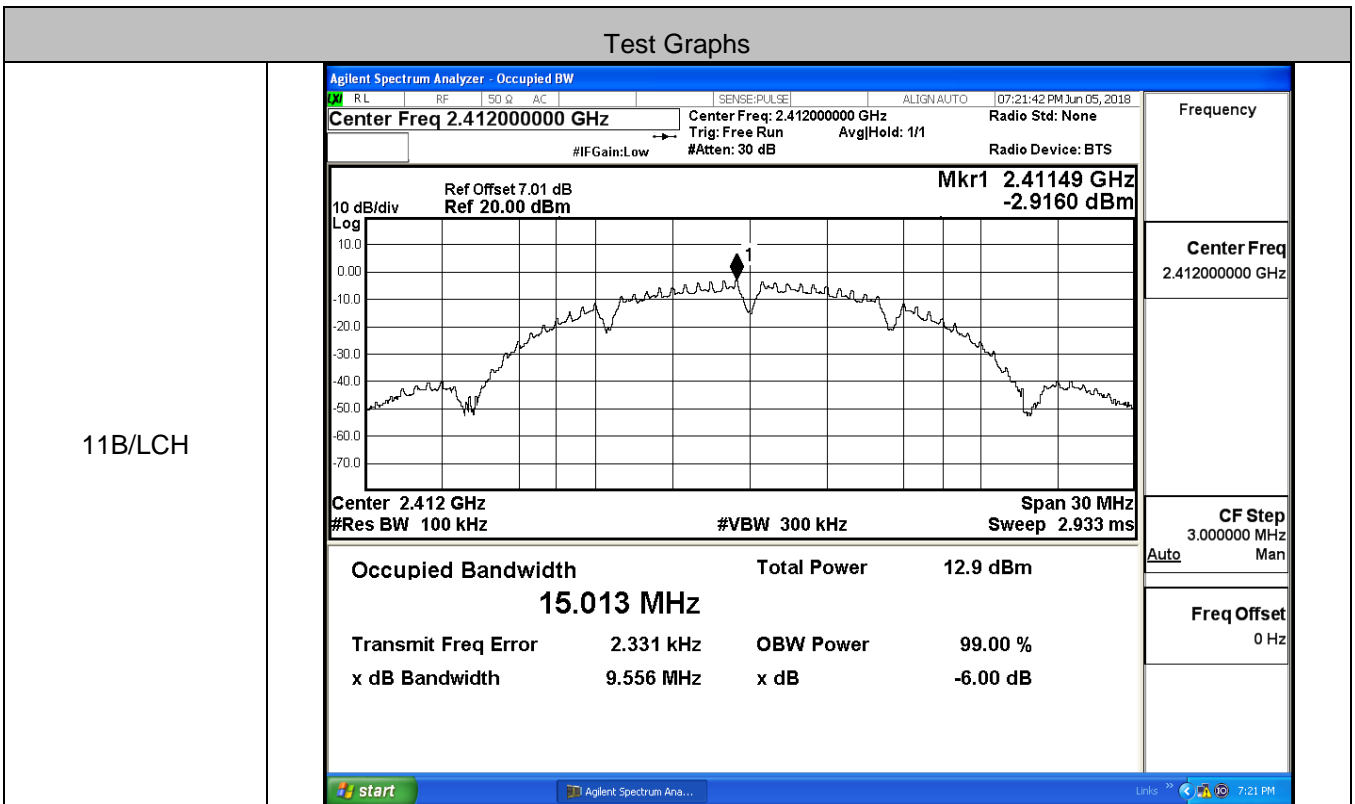
11N40SISO/HCH



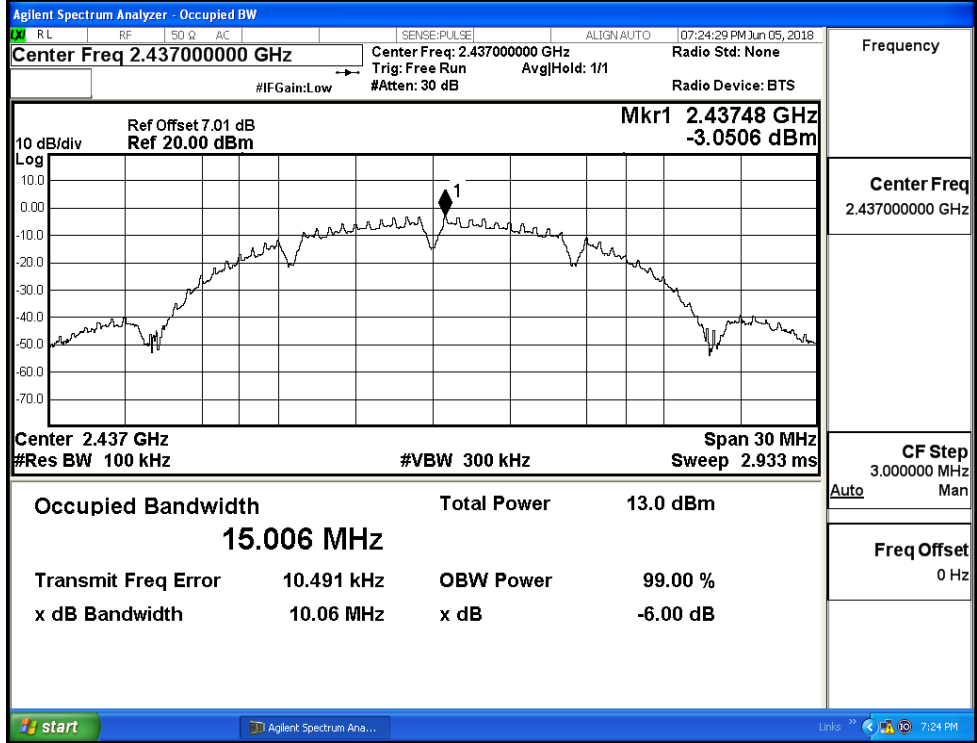
**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.556	≥0.5	PASS
	MCH	10.06	≥0.5	PASS
	HCH	10.03	≥0.5	PASS
11G	LCH	16.39	≥0.5	PASS
	MCH	16.39	≥0.5	PASS
	HCH	16.38	≥0.5	PASS
11N20SISO	LCH	17.61	≥0.5	PASS
	MCH	17.59	≥0.5	PASS
	HCH	17.59	≥0.5	PASS
11N40SISO	LCH	35.56	≥0.5	PASS
	MCH	35.38	≥0.5	PASS
	HCH	34.82	≥0.5	PASS

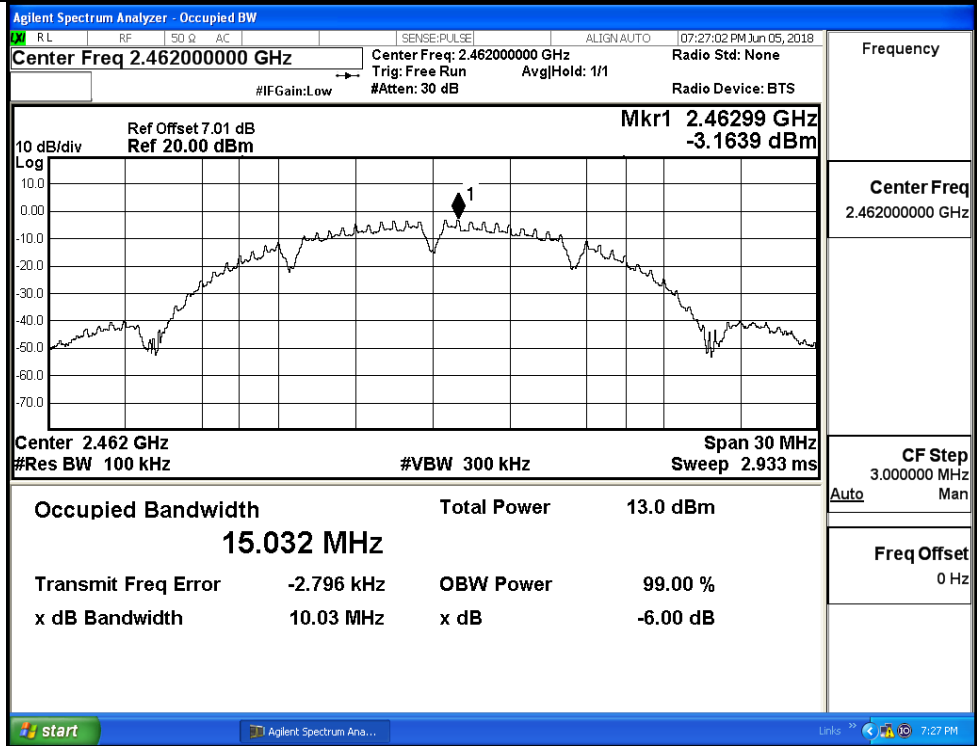
**Test Graphs**



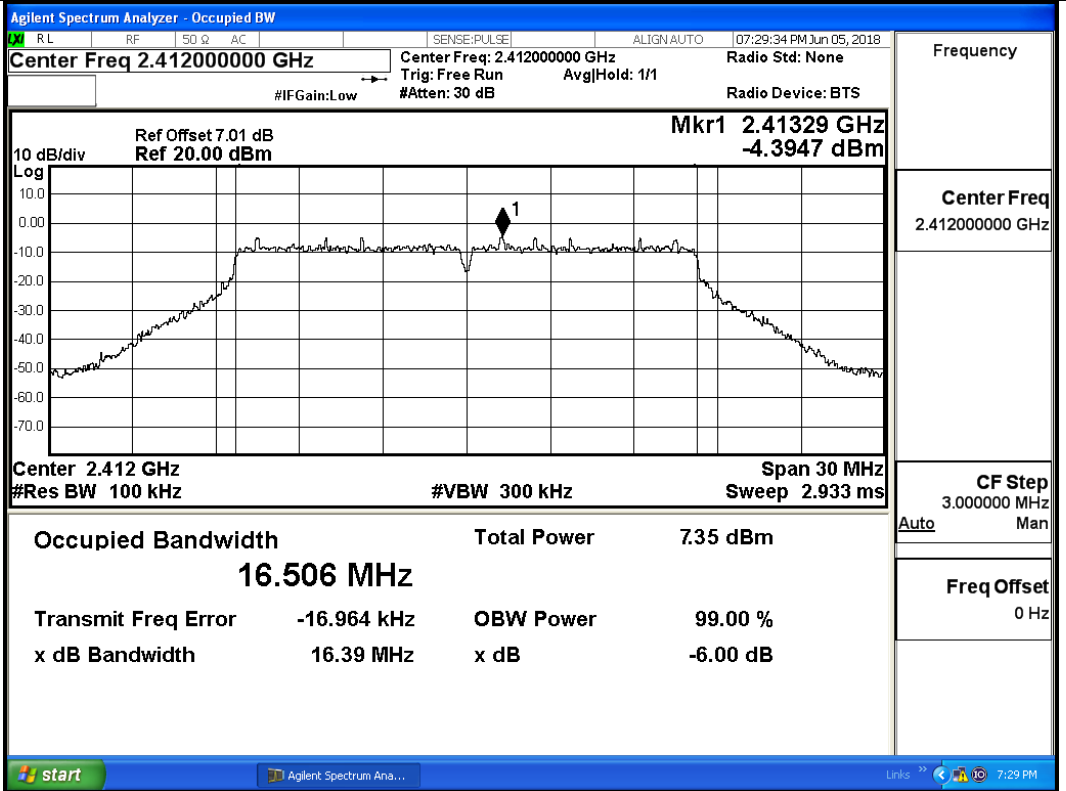
11B/MCH



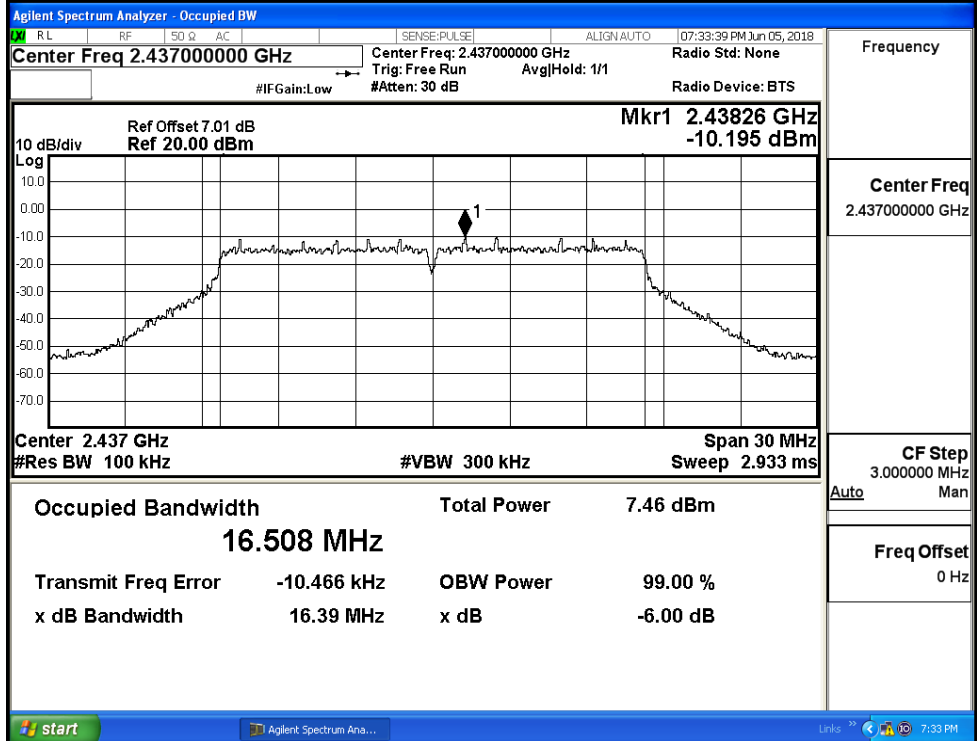
11B/HCH



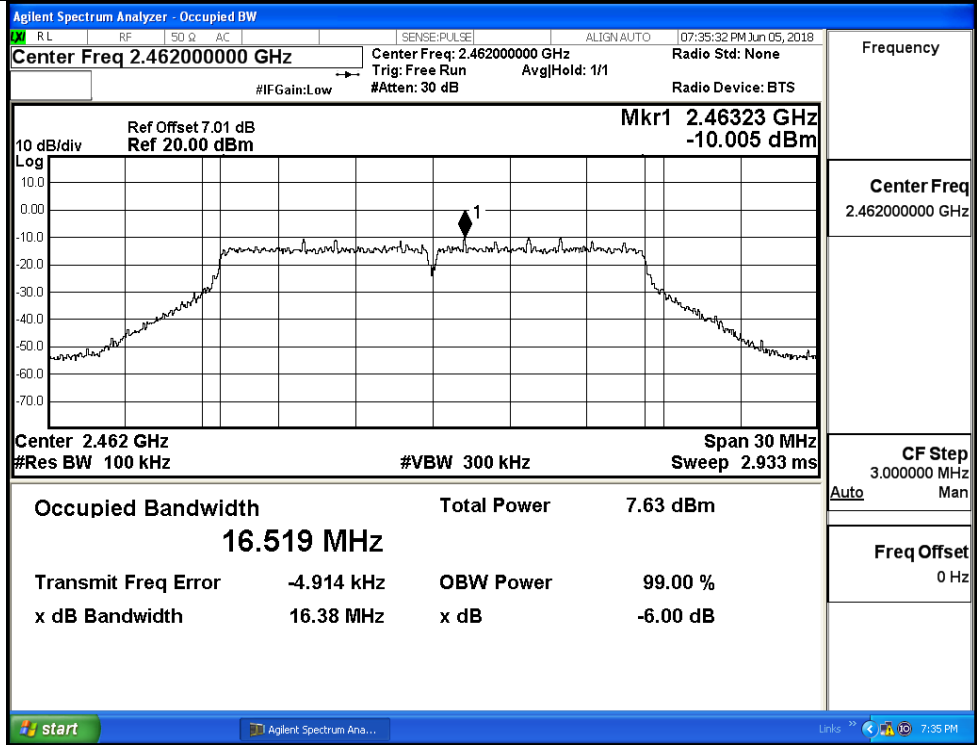
11G/LCH



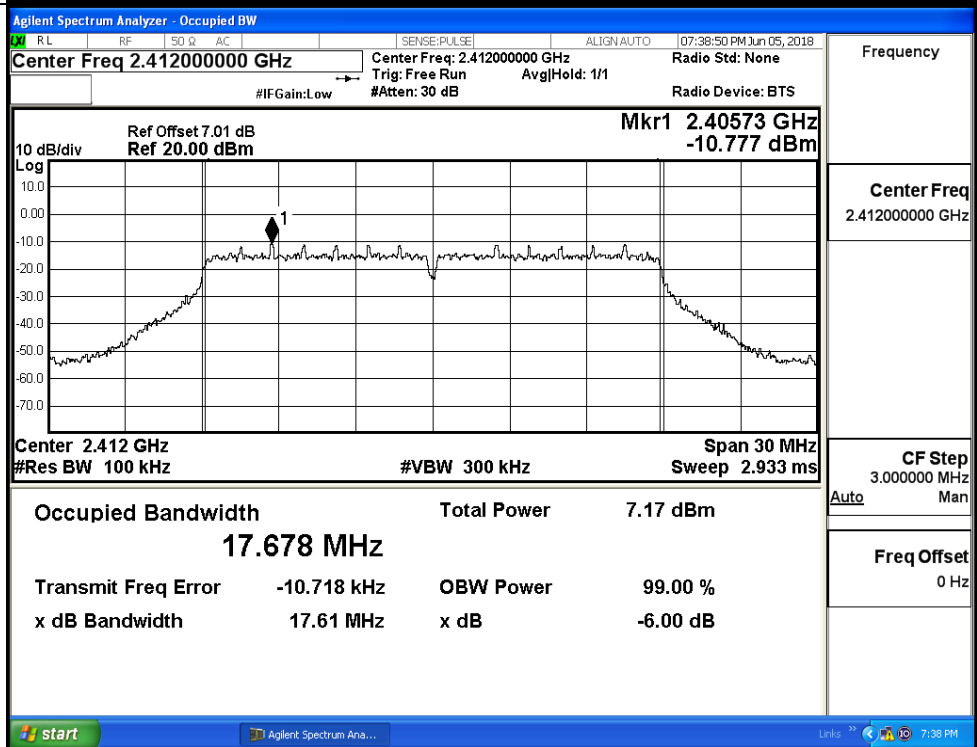
11G/MCH



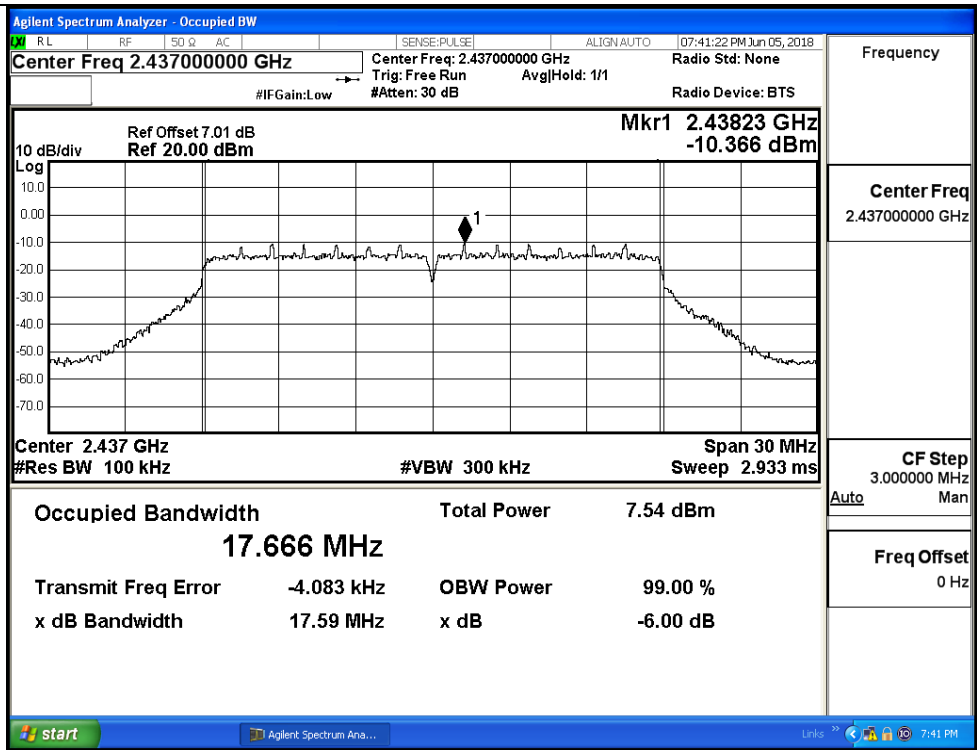
11G/HCH



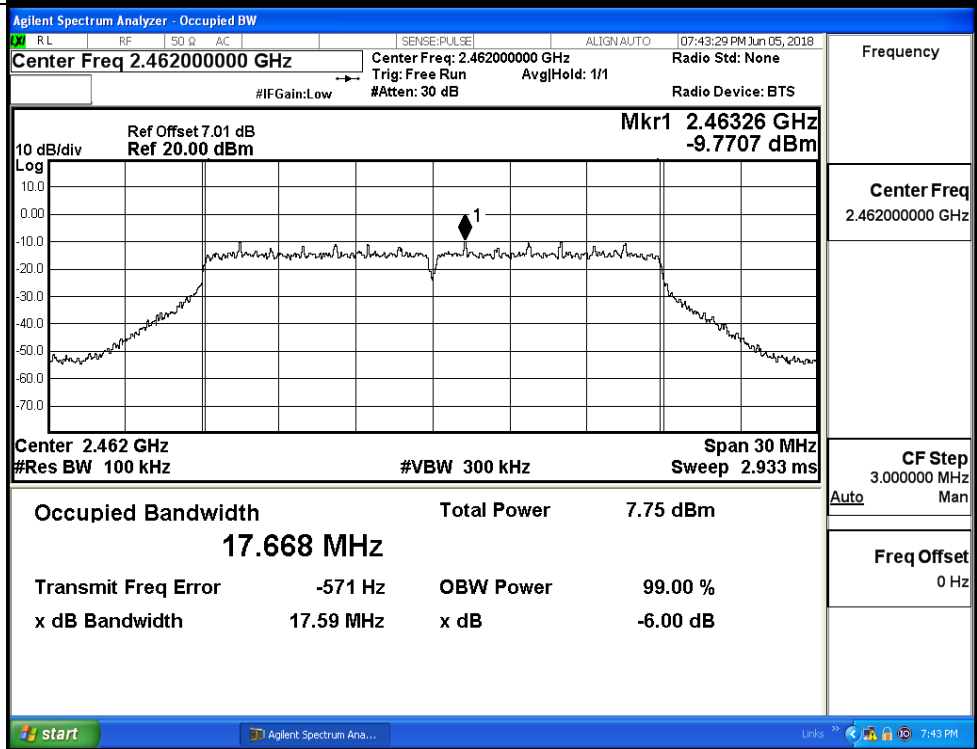
11N20SISO/LCH



11N20SISO/MCH

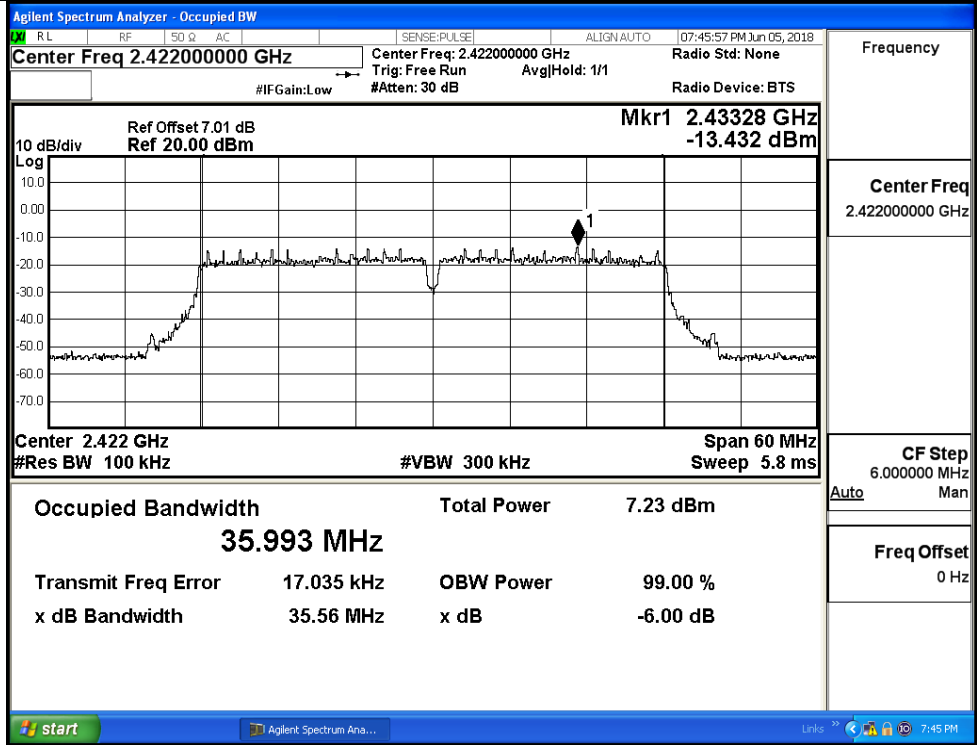


11N20SISO/HCH

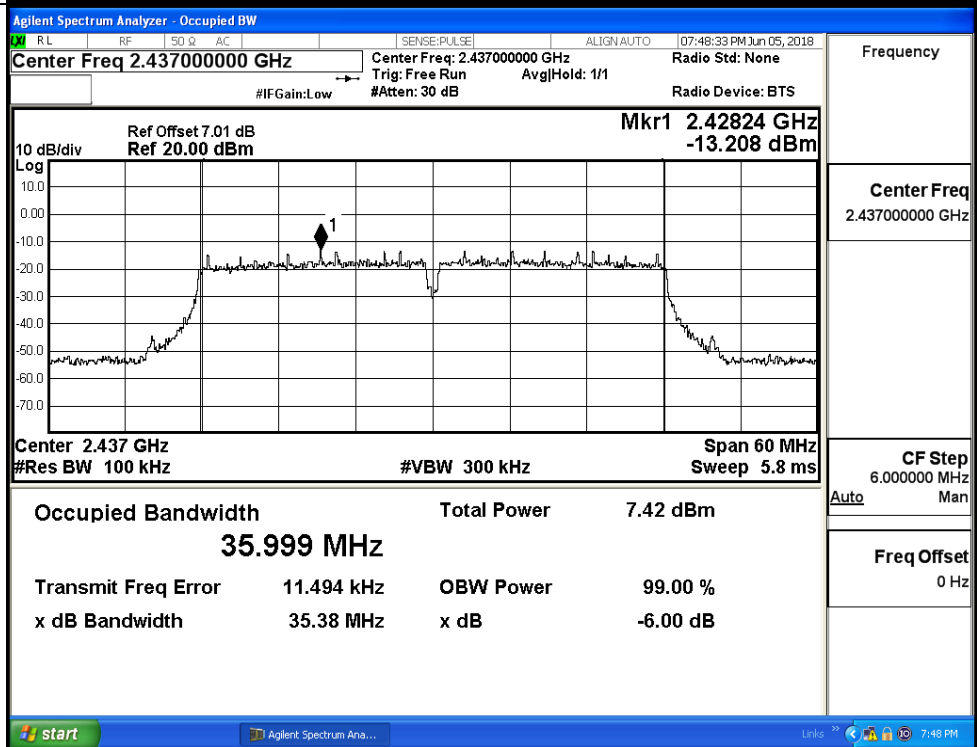




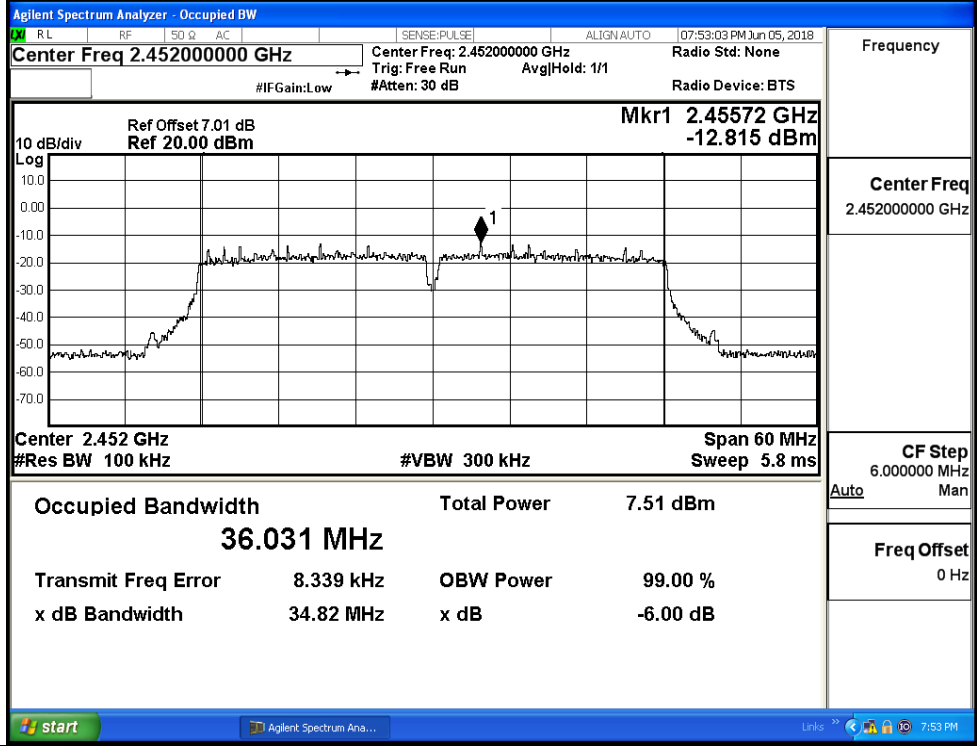
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

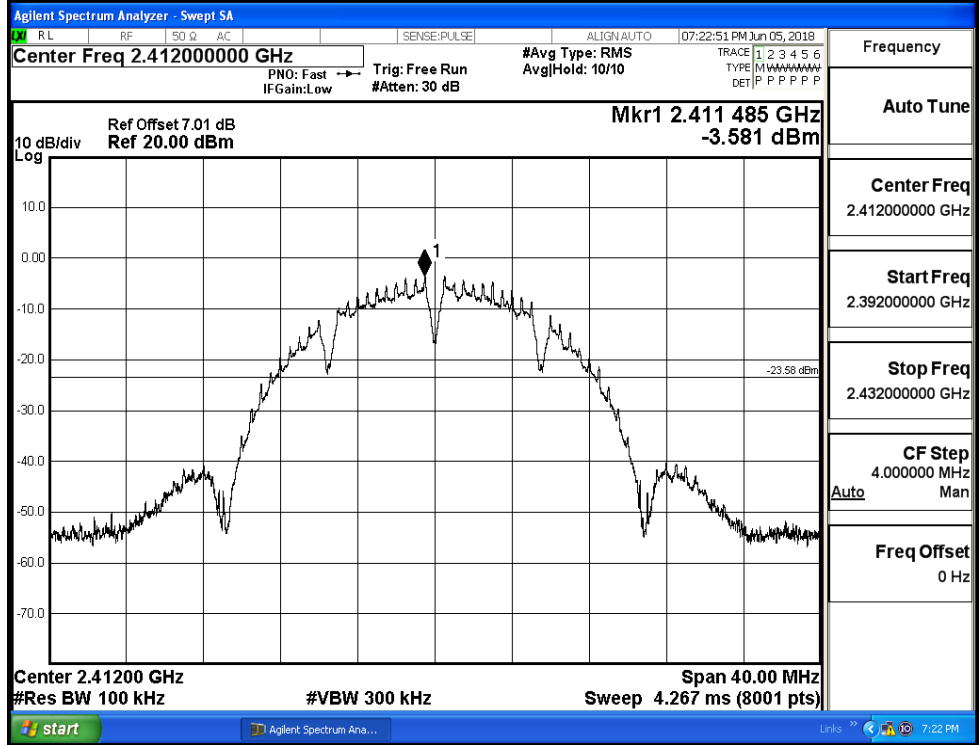


**B.5 RF Conducted Spurious Emissions**

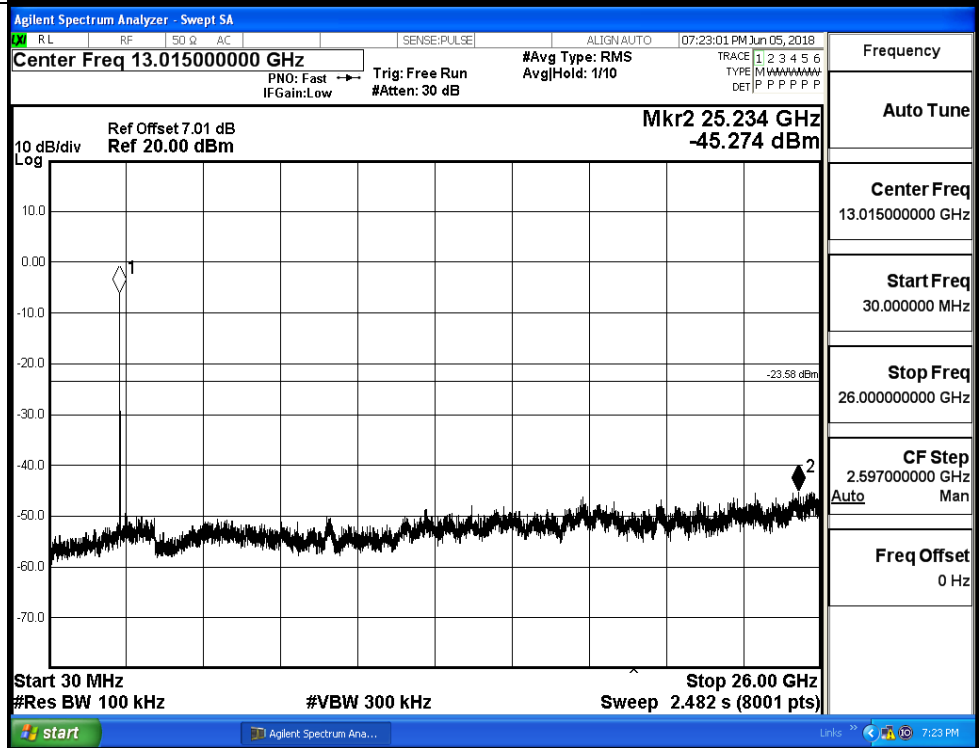
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.581	-45.274	-23.581	PASS
	MCH	-3.145	-44.217	-23.145	PASS
	HCH	-3.37	-44.417	-23.370	PASS
11G	LCH	-10.952	-44.680	-30.952	PASS
	MCH	-10.467	-44.911	-30.467	PASS
	HCH	-10.296	-43.558	-30.296	PASS
11N20 SISO	LCH	-10.9	-44.300	-30.900	PASS
	MCH	-10.66	-43.969	-30.660	PASS
	HCH	-10.789	-44.864	-30.789	PASS
11N40 SISO	LCH	-13.769	-44.242	-33.769	PASS
	MCH	-13.935	-44.718	-33.935	PASS
	HCH	-13.473	-43.531	-33.473	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

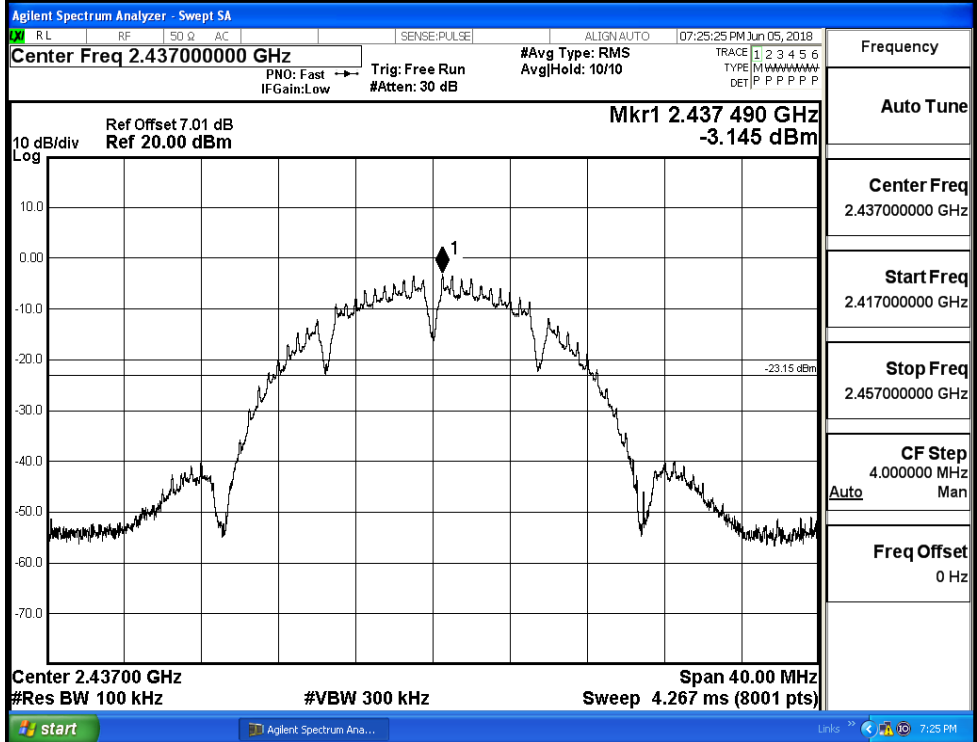


Puw/11B/LCH

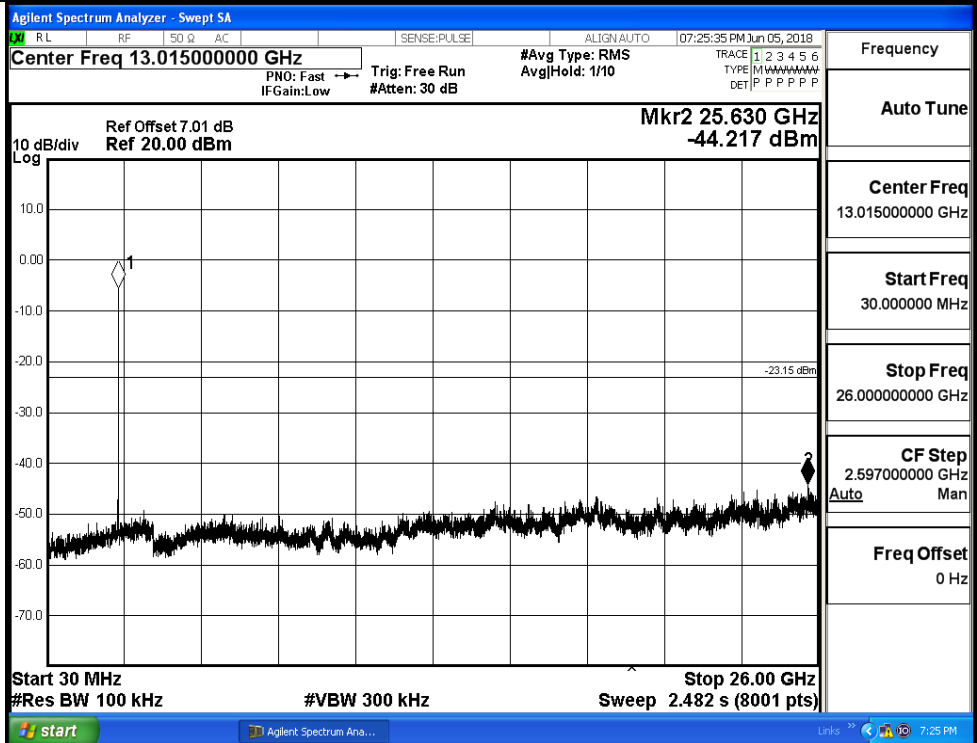


11B\_MCH\_Graphs

Pref/11B/MCH

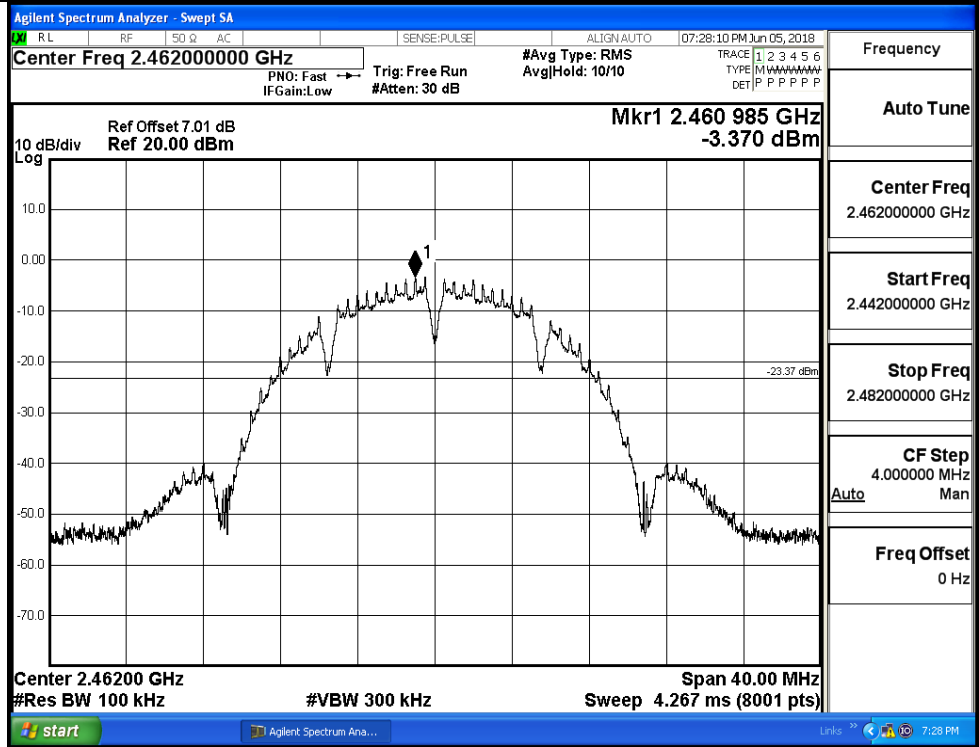


Puw/11B/MCH

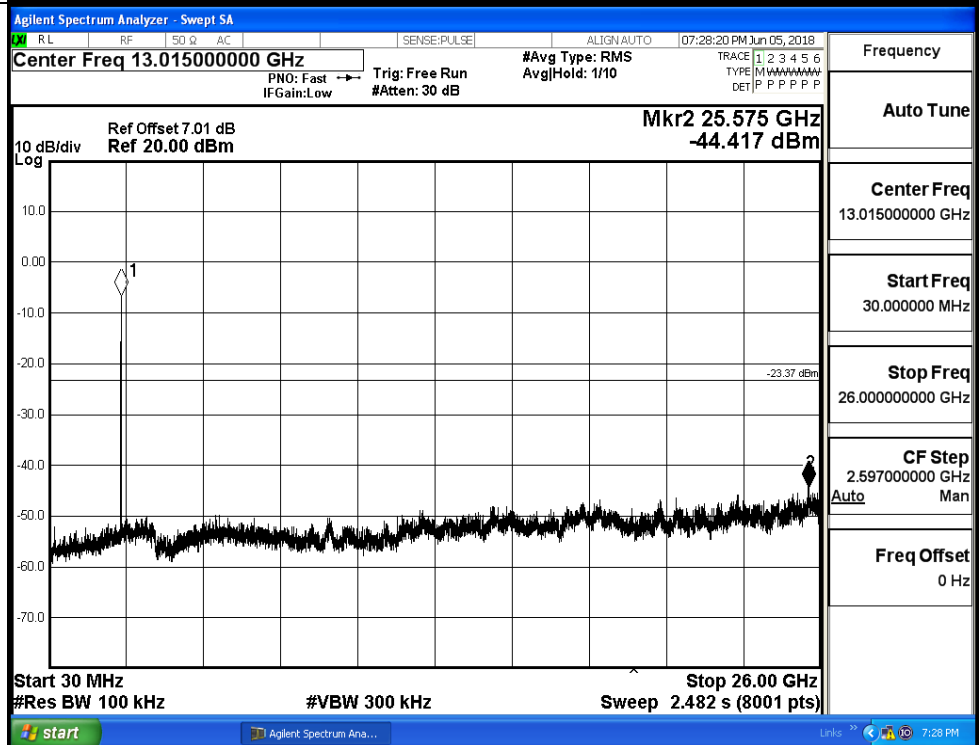


11B\_HCH\_Graphs

Pref/11B/HCH

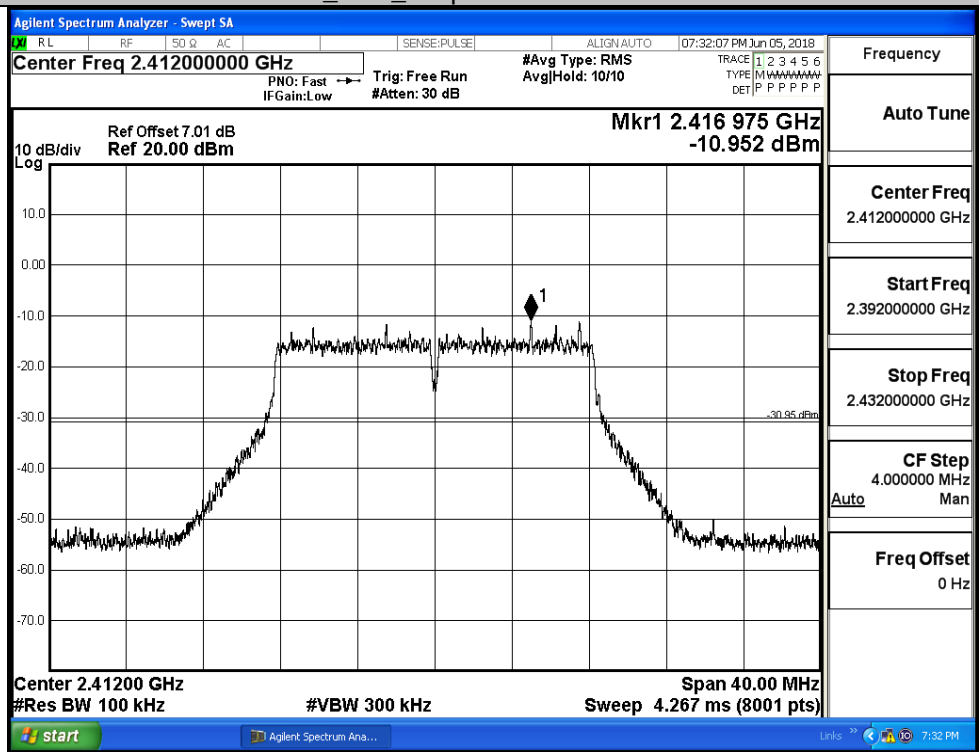


Puw/11B/HCH

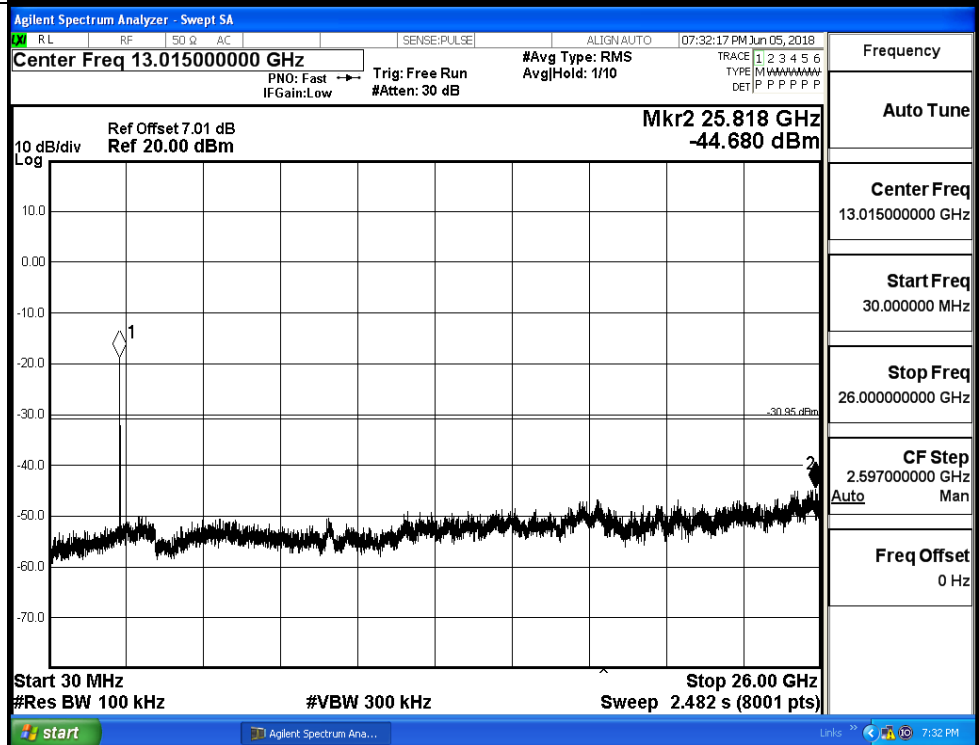


11G\_LCH\_Graphs

Pref/11G/LCH

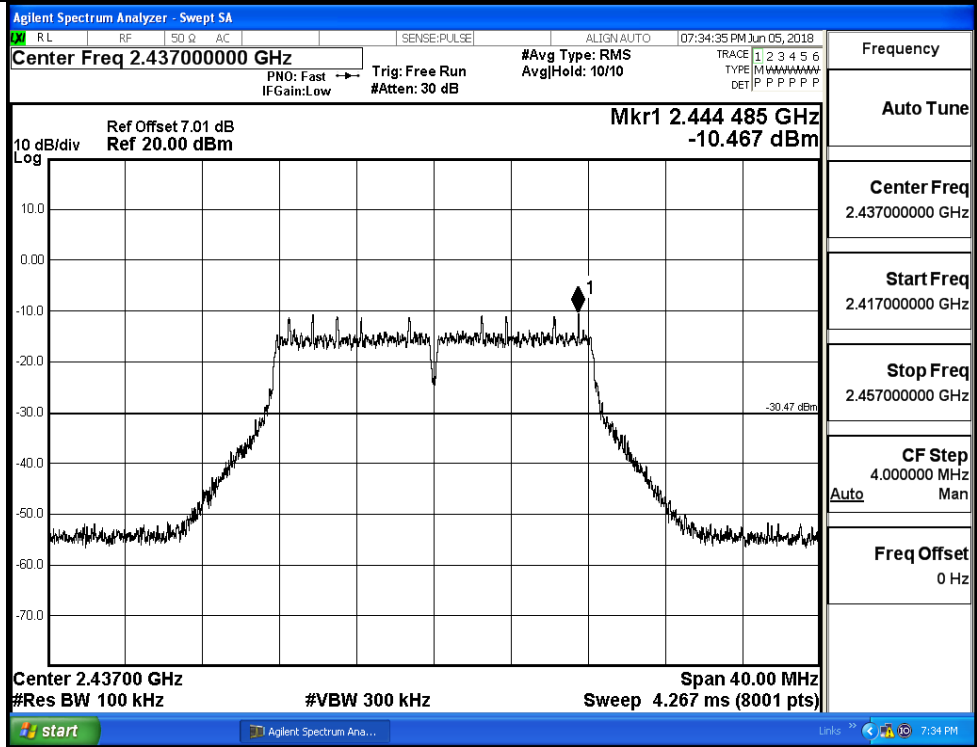


Puw/11G/LCH

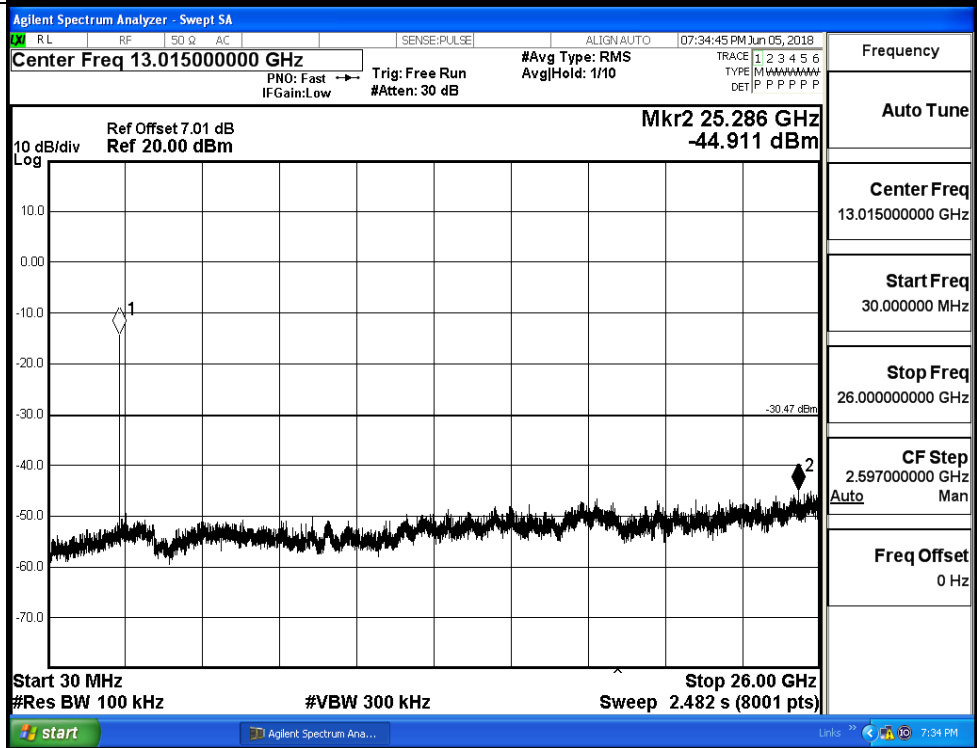


11G\_MCH\_Graphs

Pref/11G/MCH



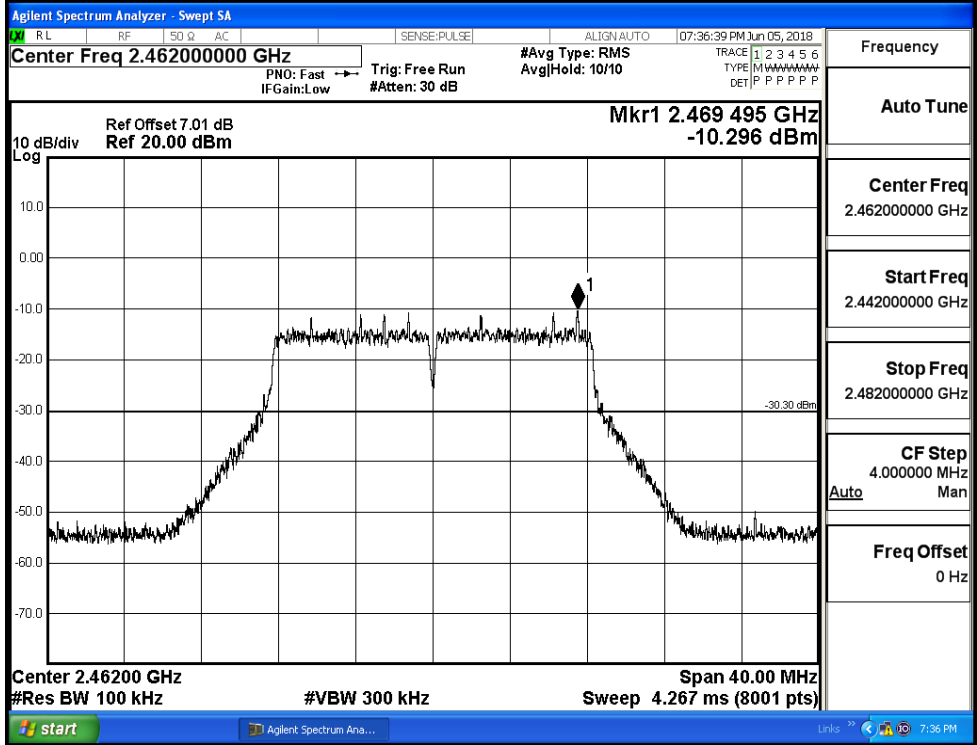
Puw/11G/MCH



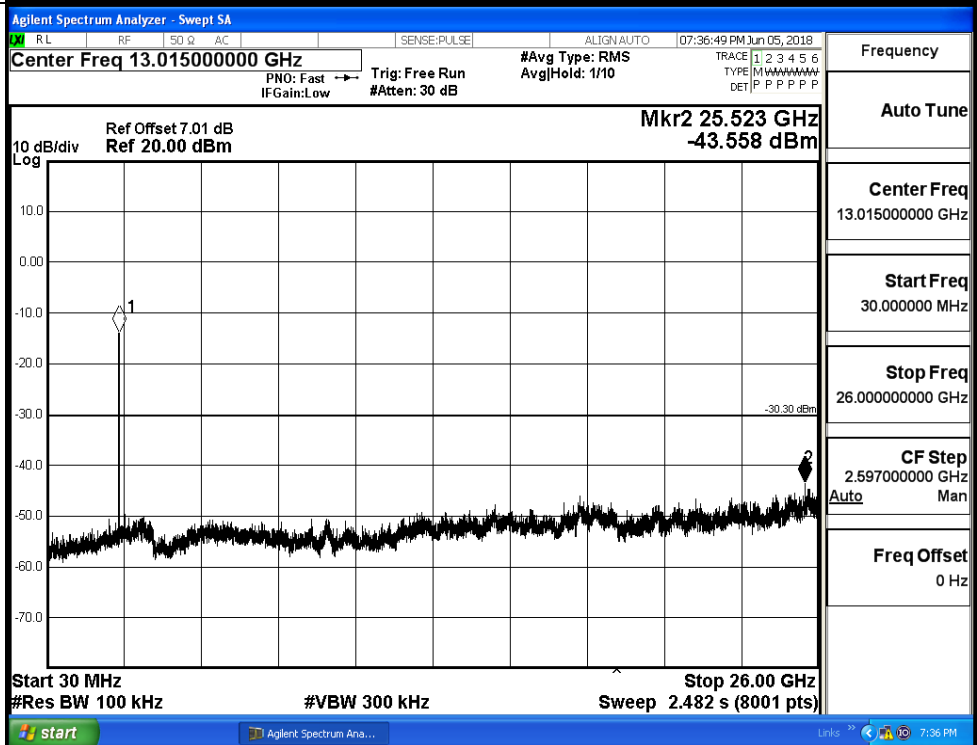


11G\_HCH\_Graphs

Pref/11G/HCH

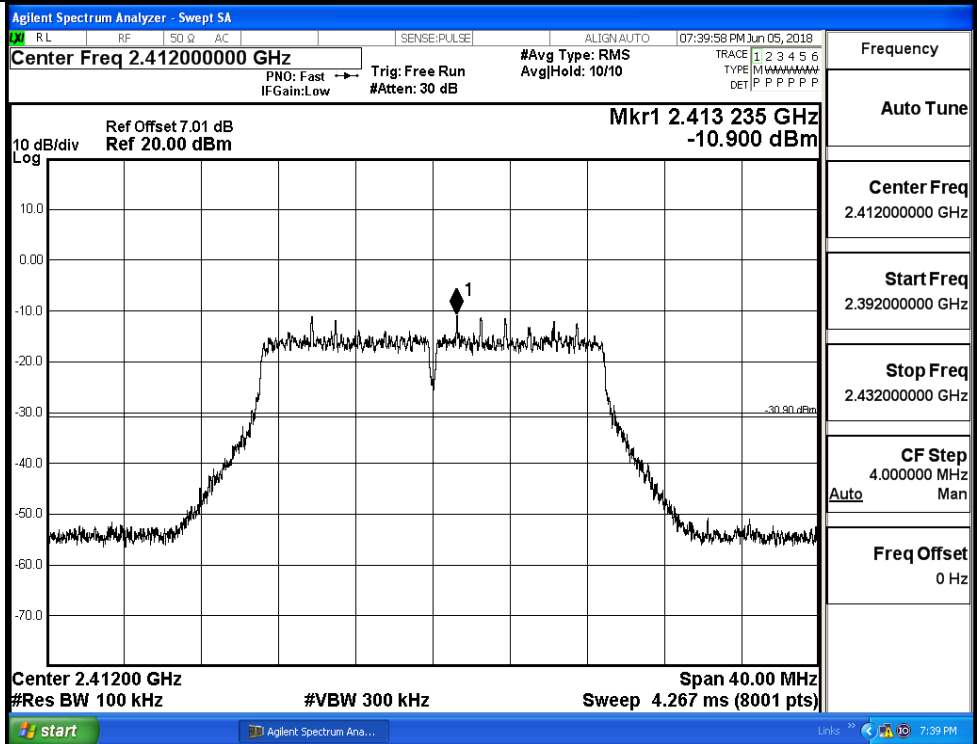


Puw/11G/HCH



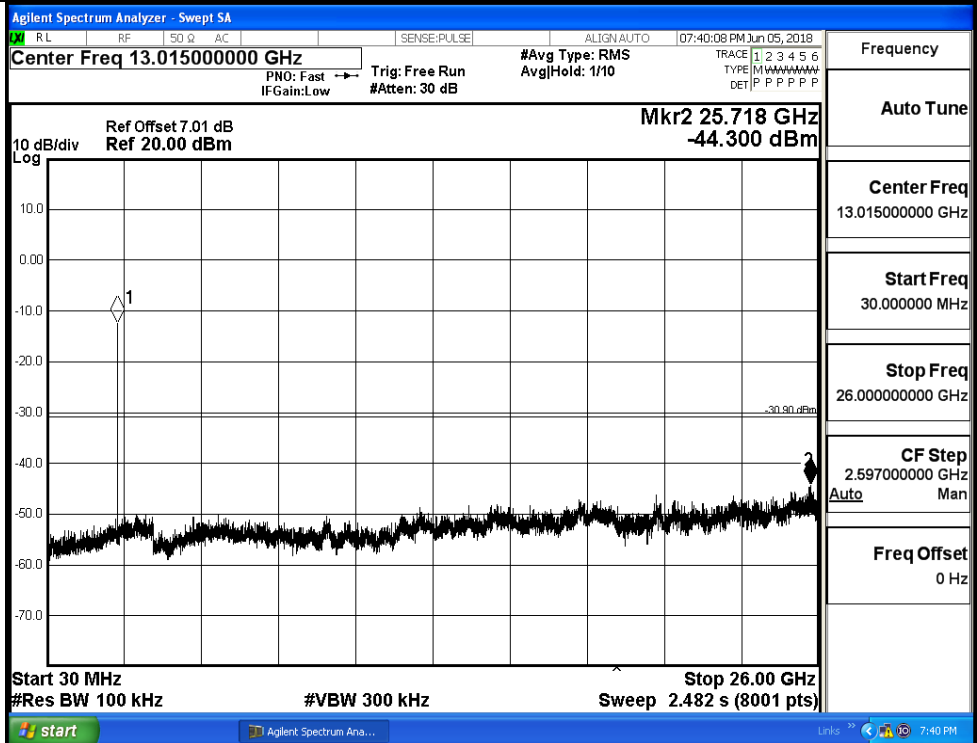
11N20SISO\_LCH\_Graphs

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

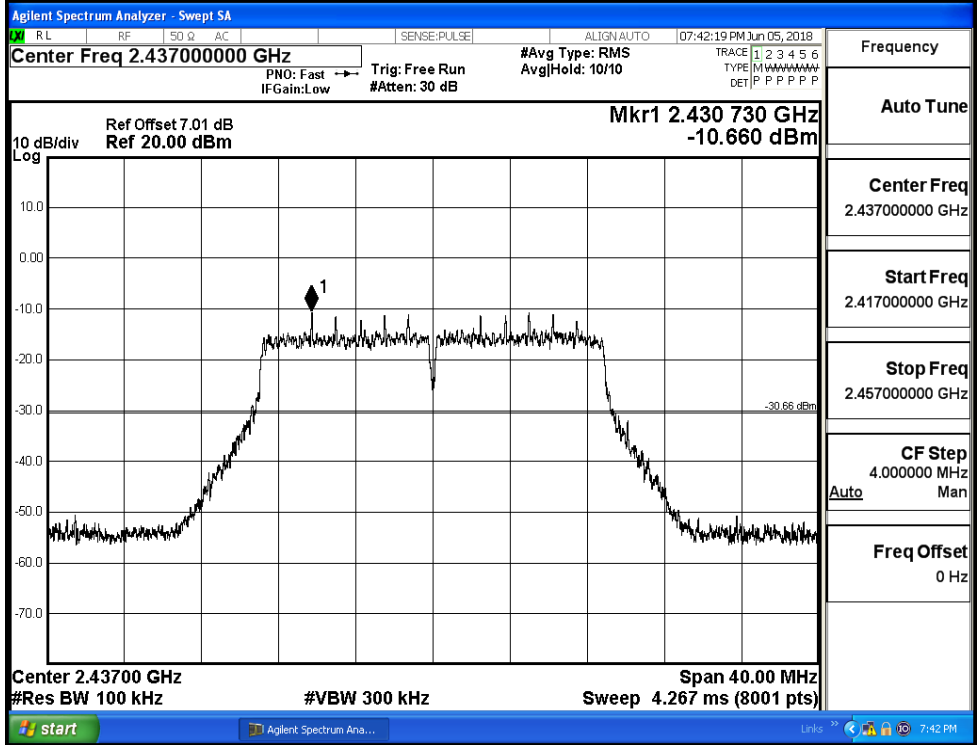
Puw/11N20  
SISO/LCH



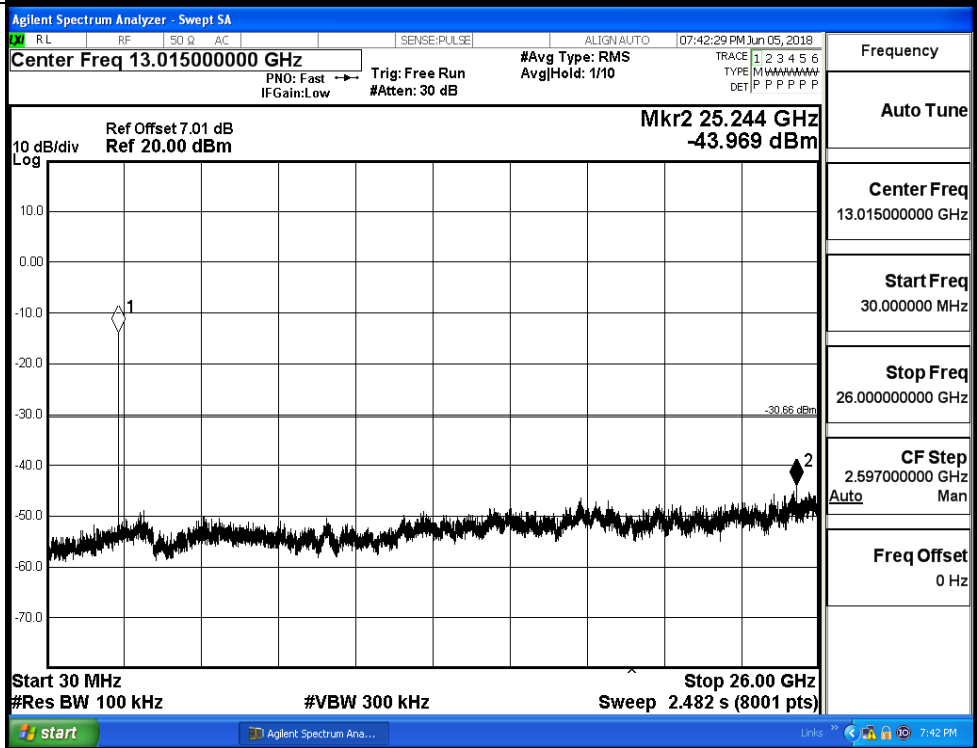
Frequency	
Auto Tune	
Center Freq	13.015000000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.000000000 GHz
CF Step	2.597000000 GHz
	Auto Man
Freq Offset	0 Hz

11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

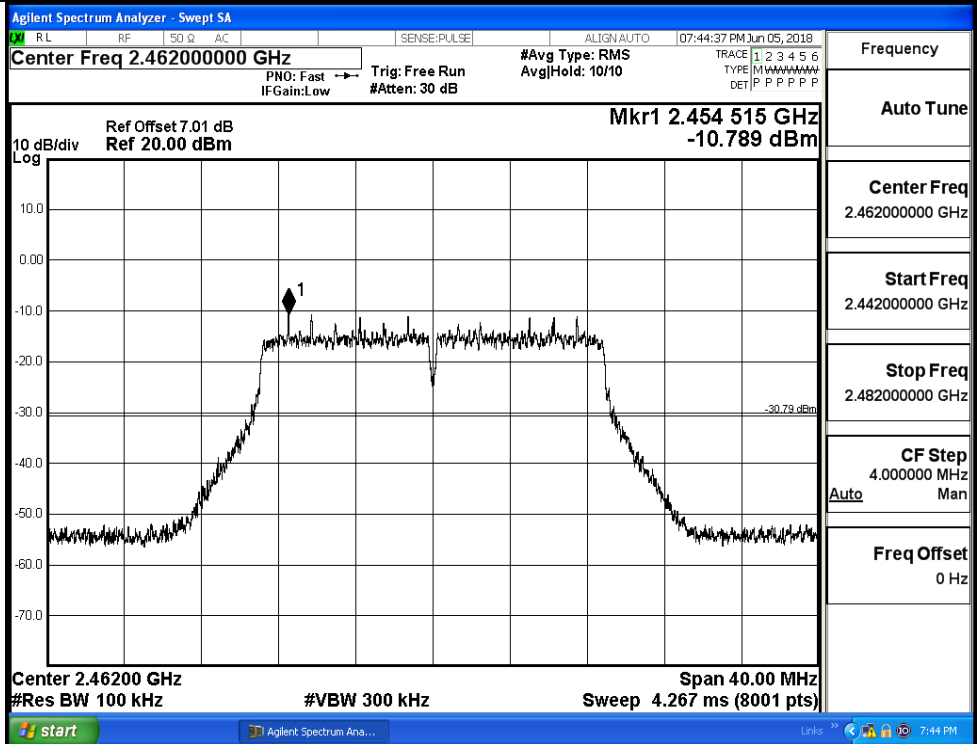


Puw/11N20  
SISO/MCH

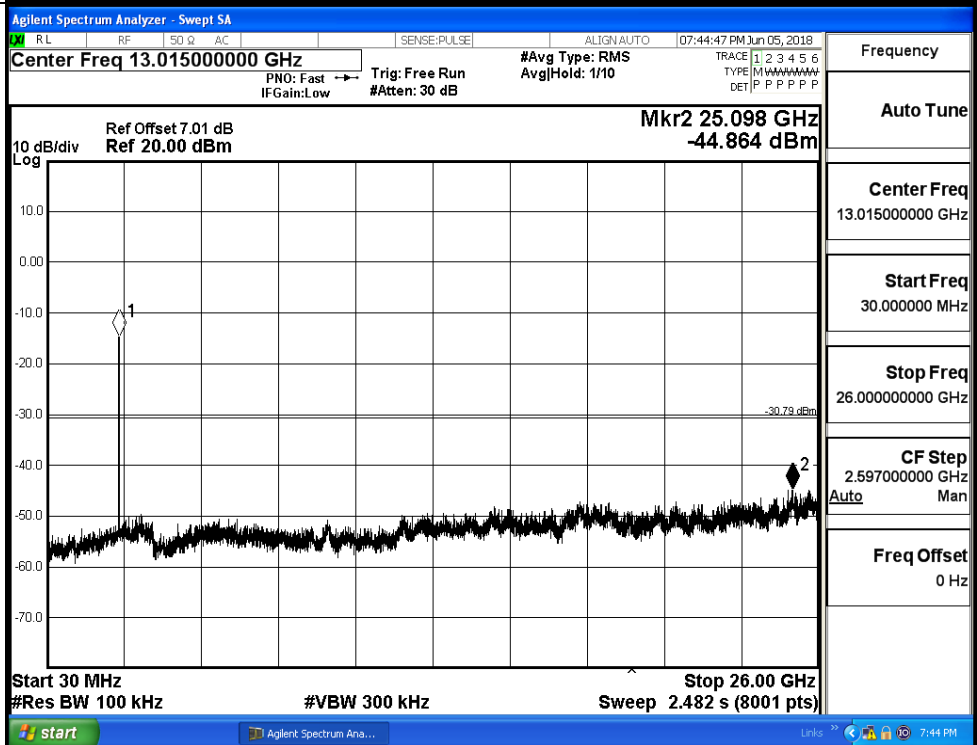


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

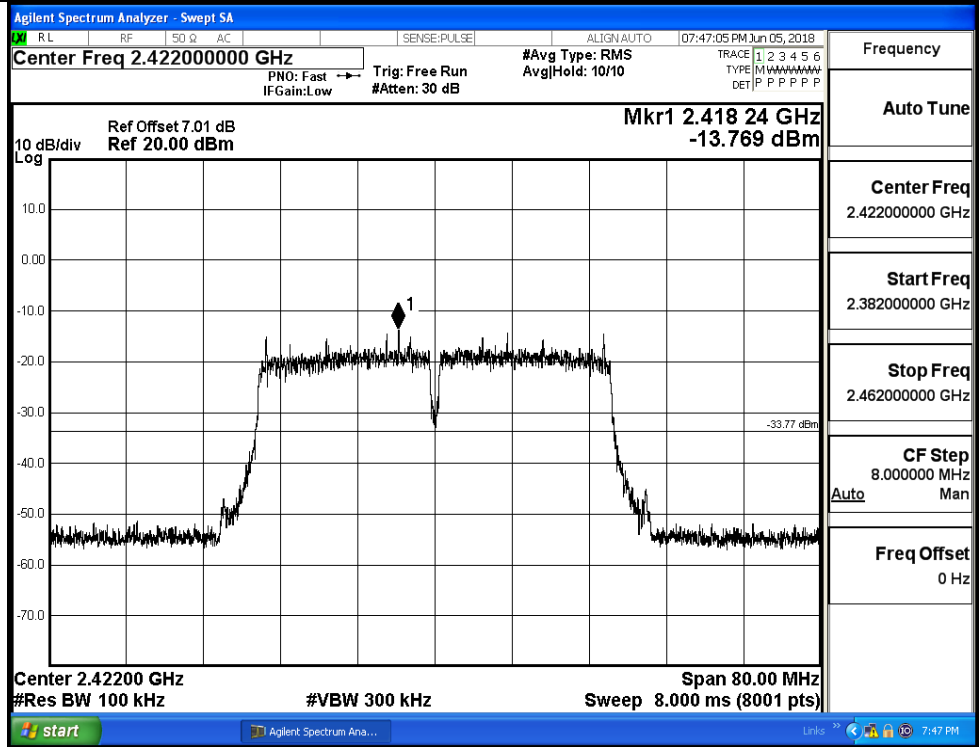


Puw/11N20  
SISO/HCH

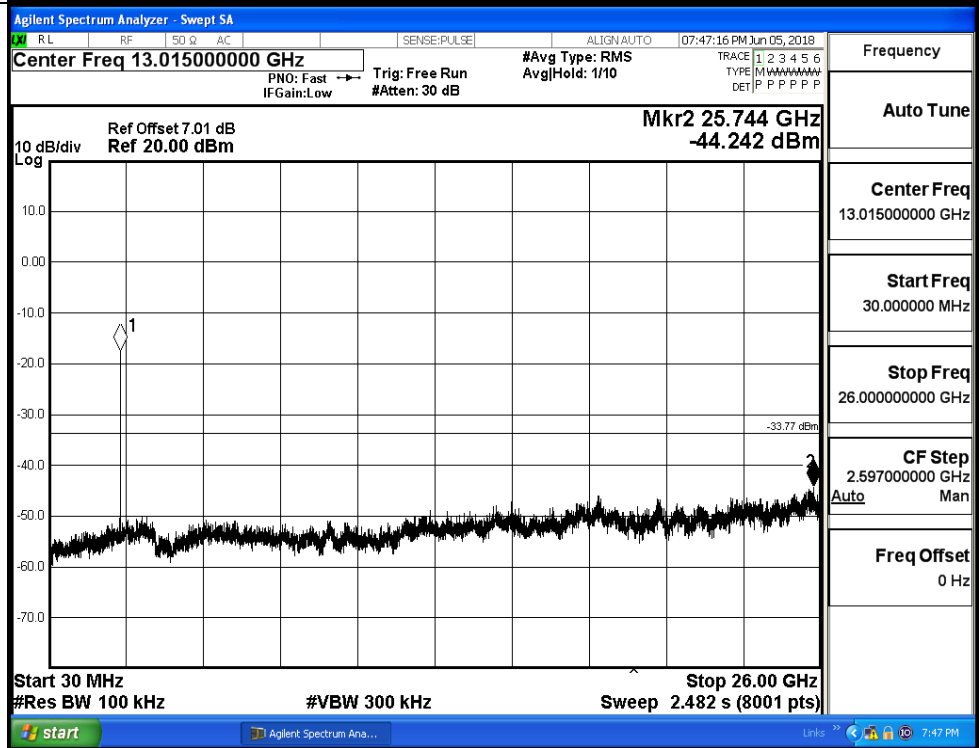


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

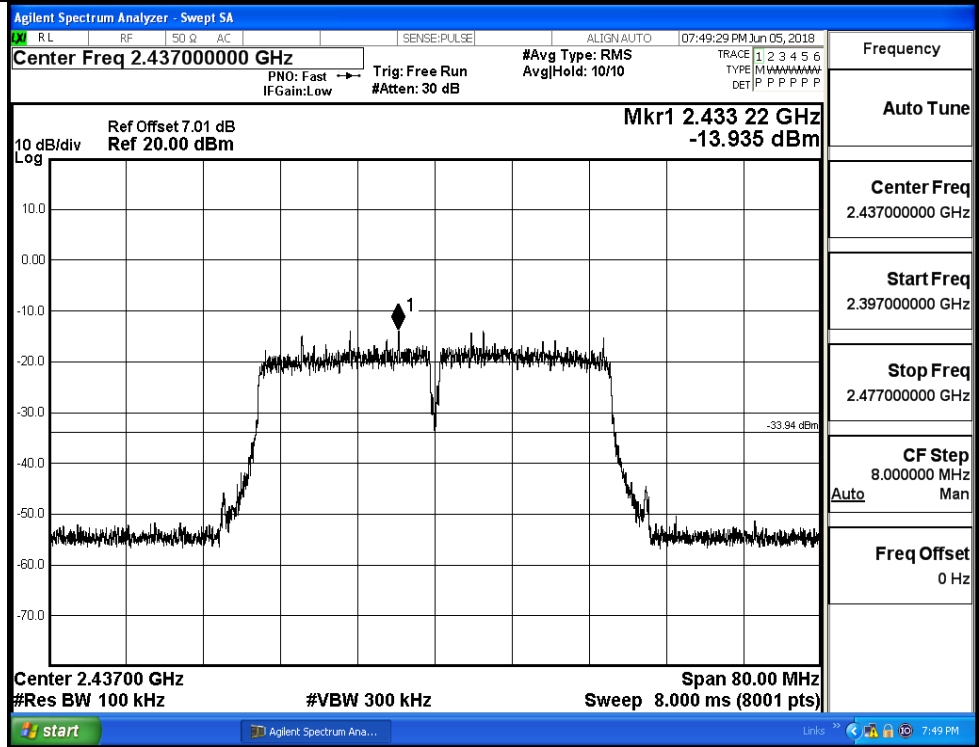


Puw/11N40  
SISO/LCH

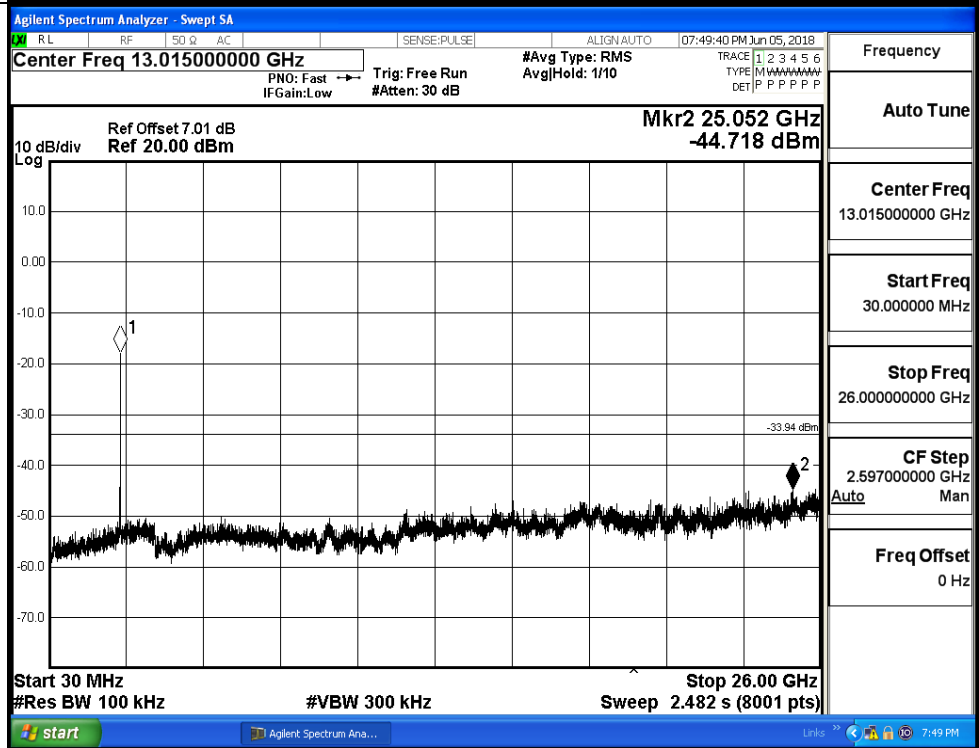


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

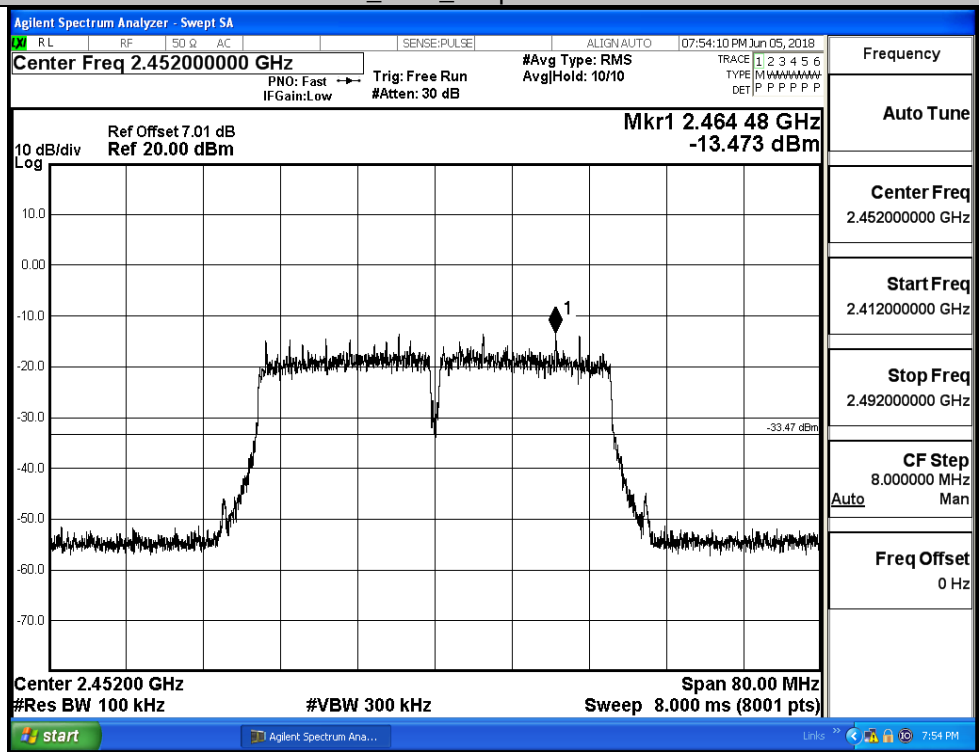


Puw/11N40  
SISO/MCH

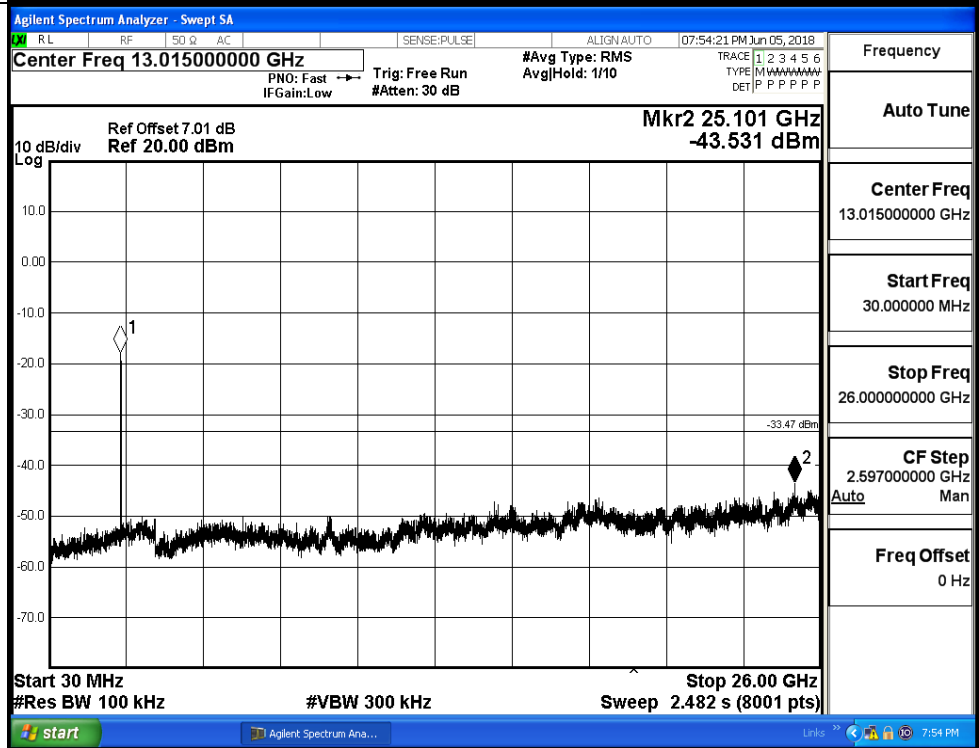


11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH

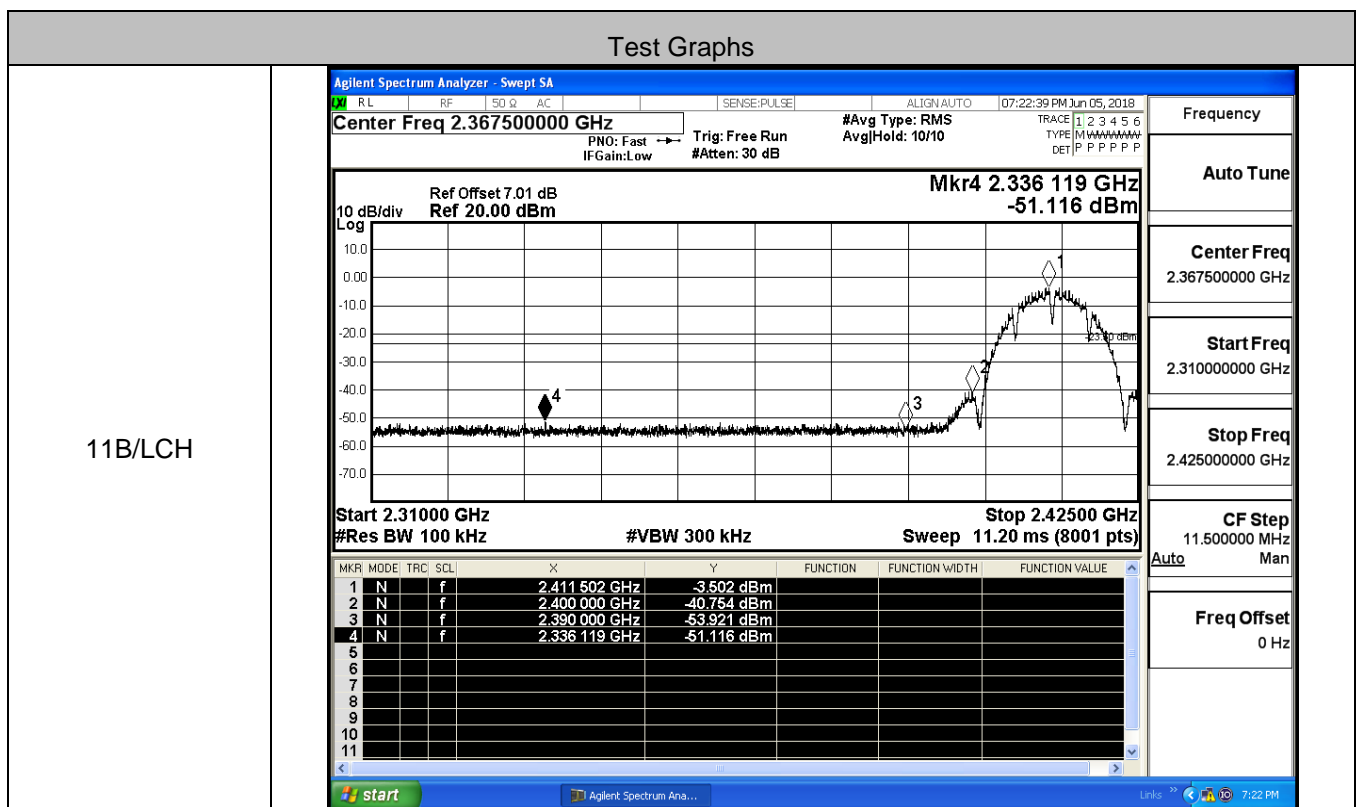


Puw/11N40  
SISO/HCH



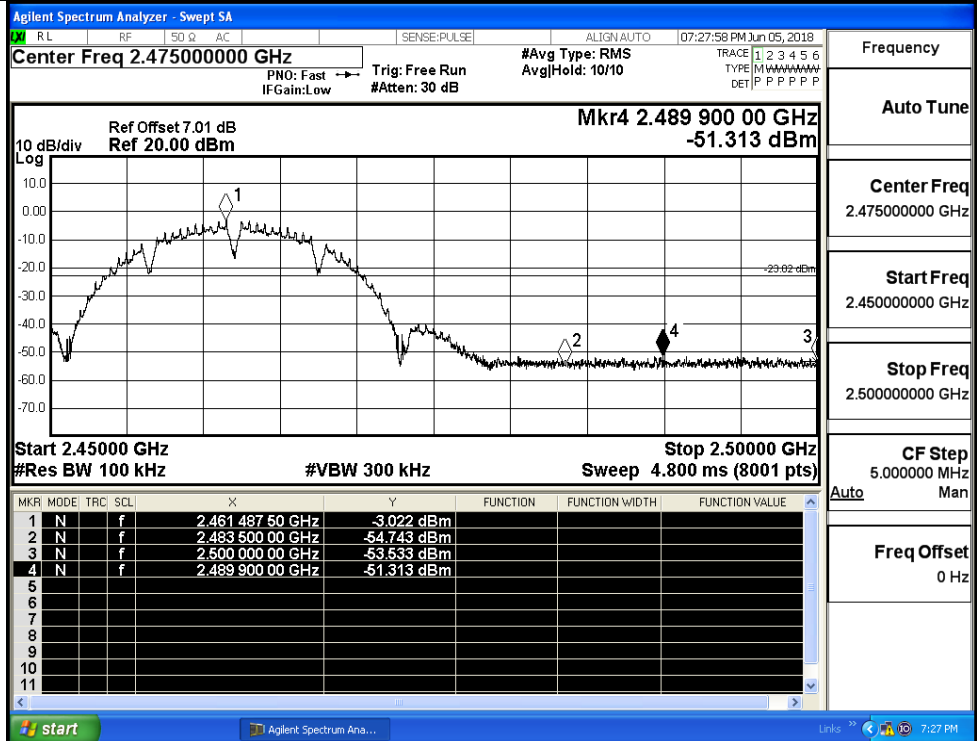
### B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.502	-51.116	-23.5	PASS
	HCH	-3.022	-51.313	-23.02	PASS
11G	LCH	-11.201	-50.809	-31.2	PASS
	HCH	-10.585	-50.832	-30.59	PASS
11N20SISO	LCH	-10.988	-50.891	-30.99	PASS
	HCH	-10.664	-50.649	-30.66	PASS
11N40SISO	LCH	-13.671	-50.988	-33.67	PASS
	HCH	-13.430	-51.682	-33.43	PASS

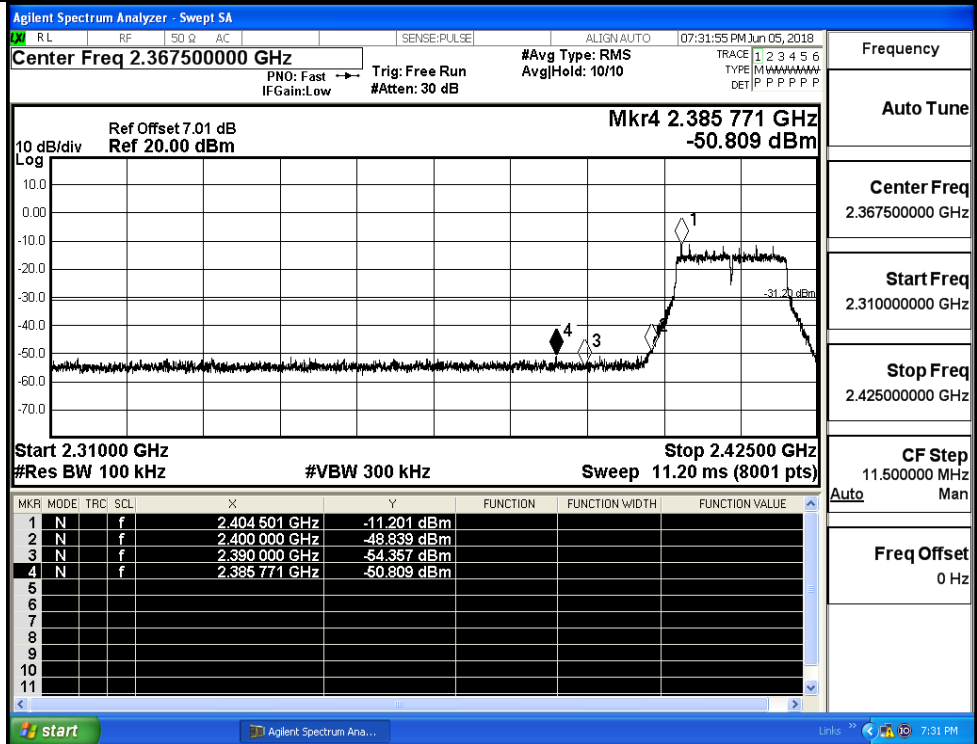




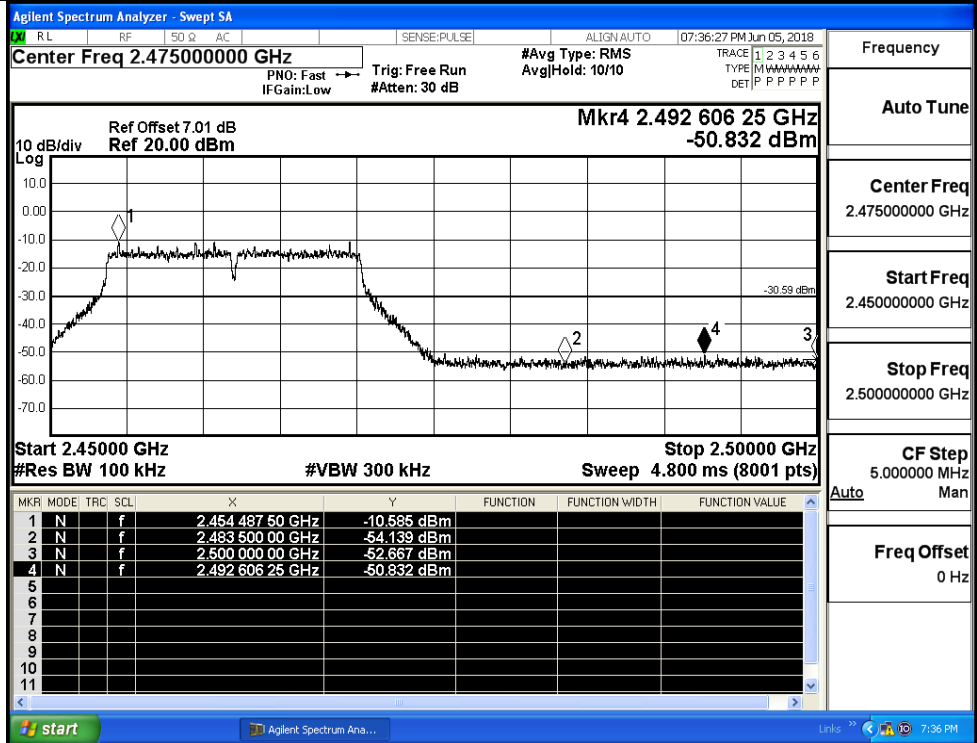
11B/HCH



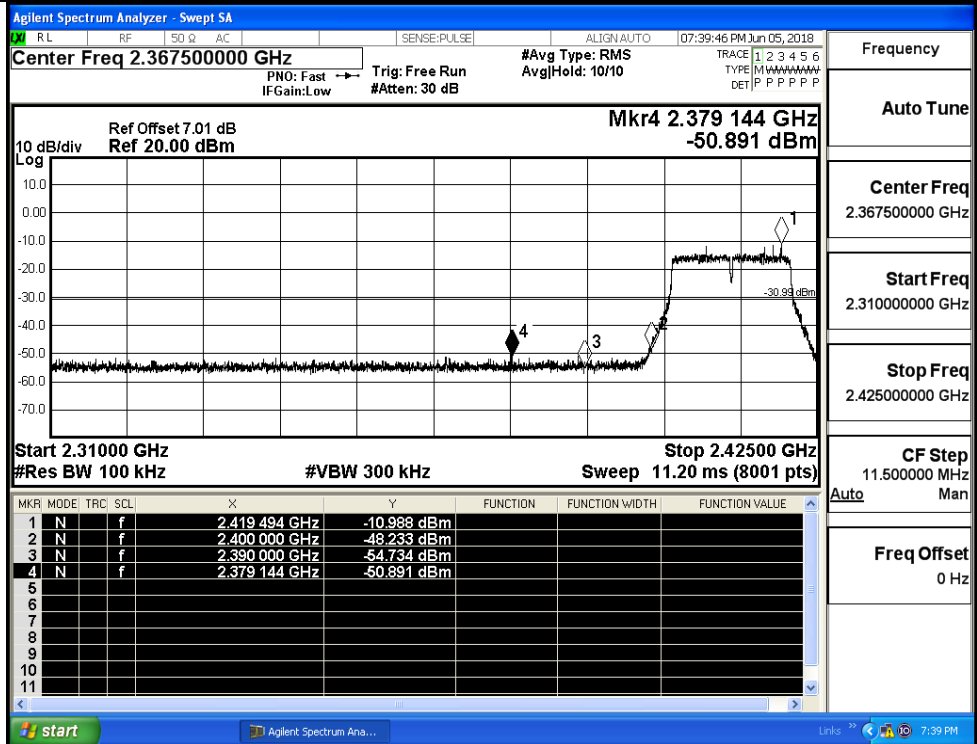
11G/LCH



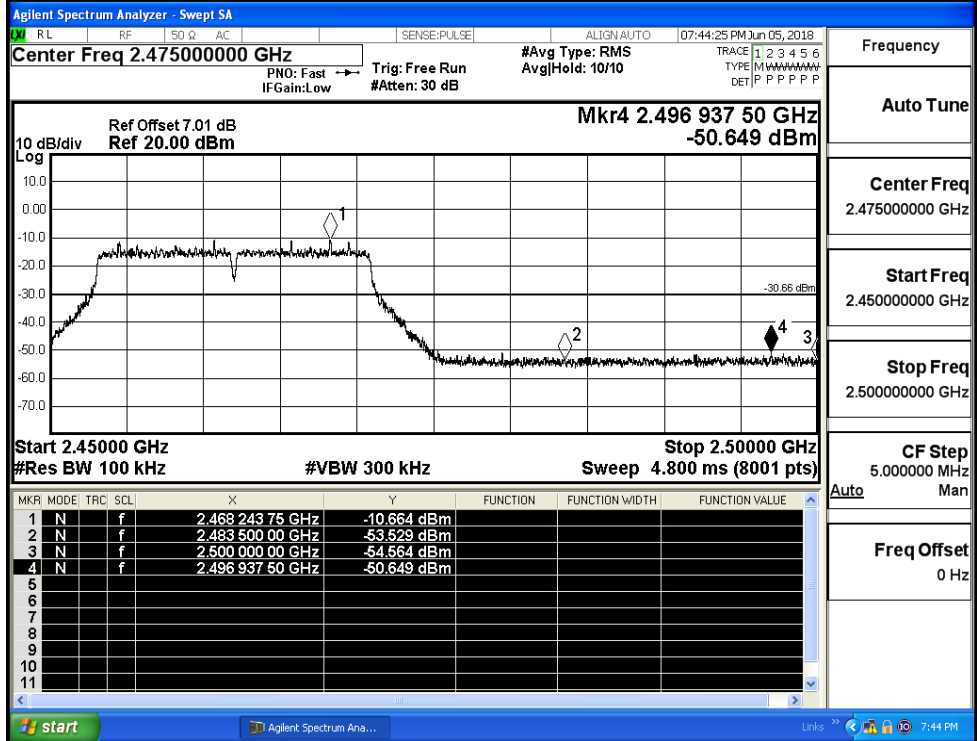
11G/HCH



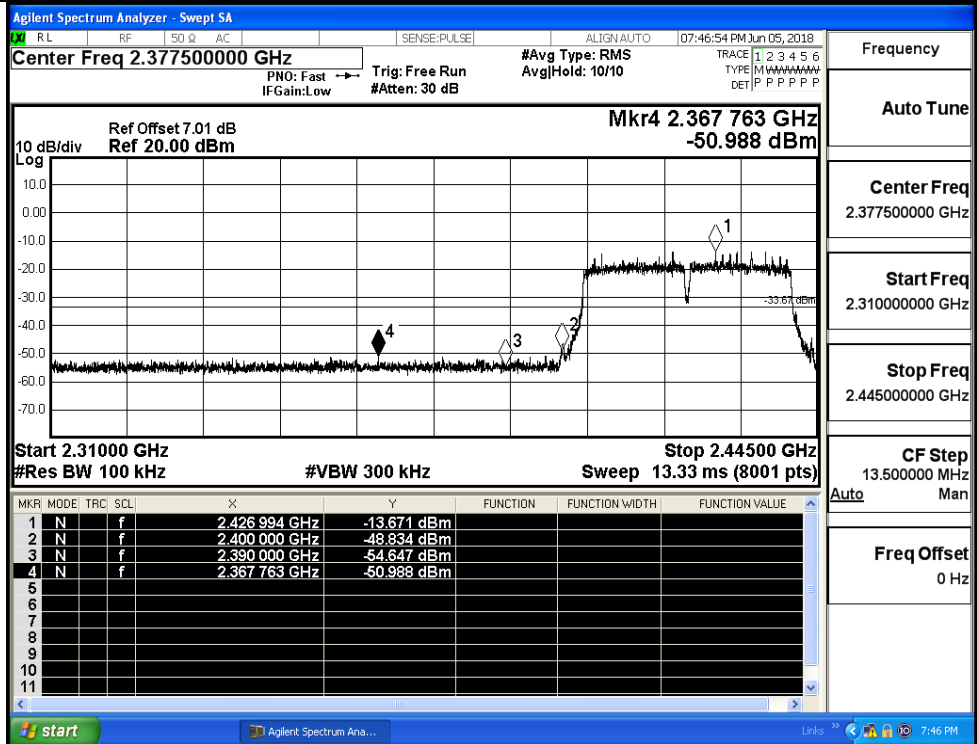
11N20SISO/LCH



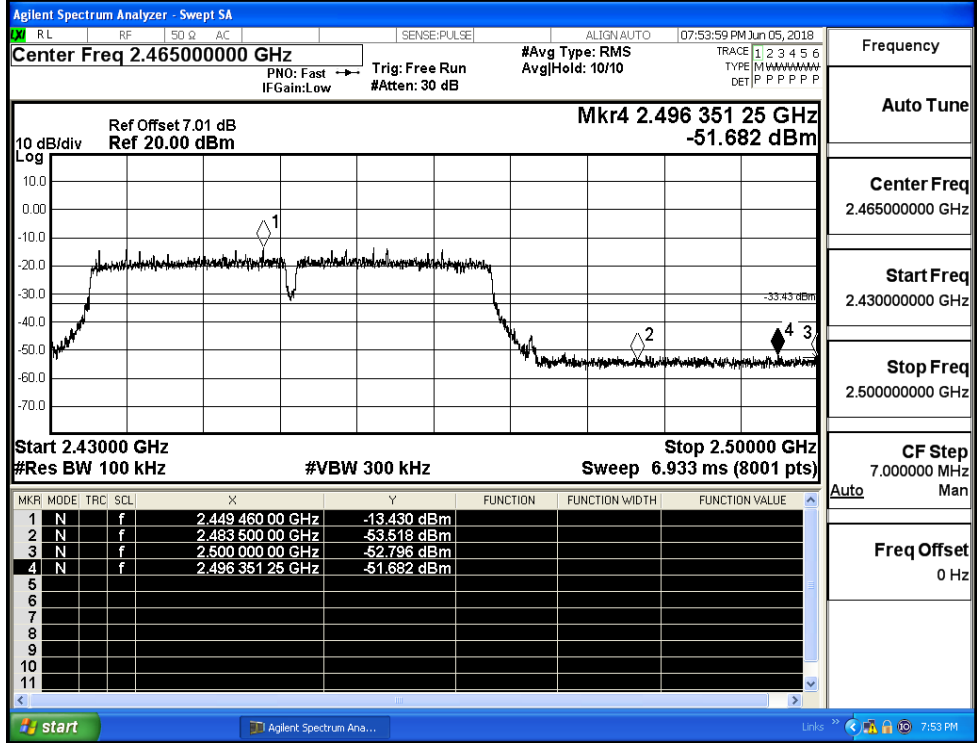
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

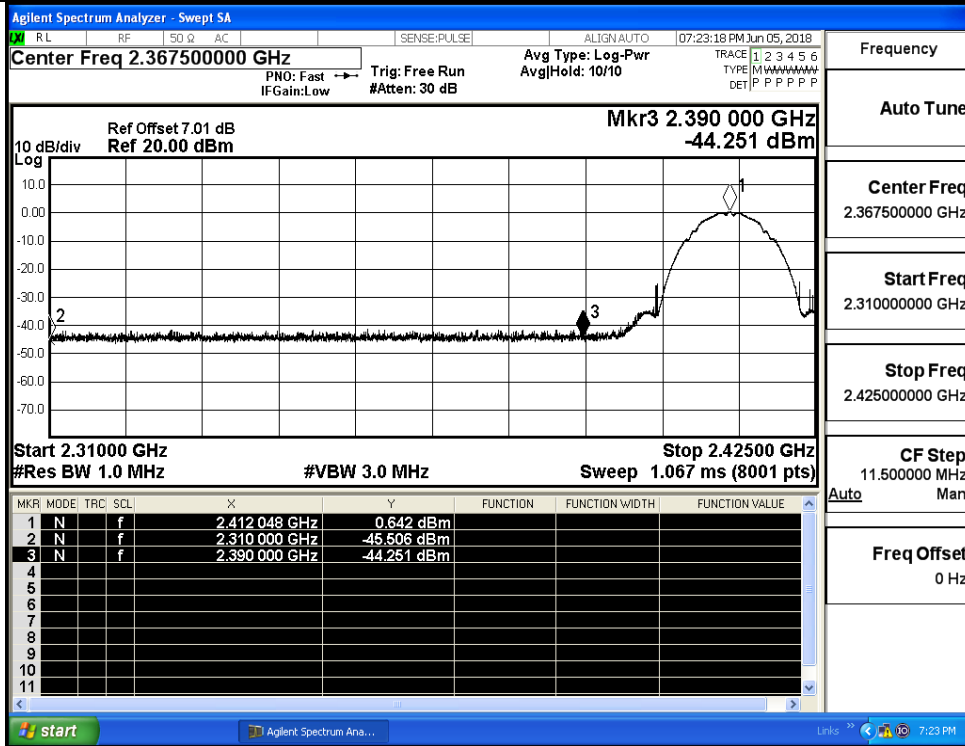


## B.7 Restrict-band band-edge measurements

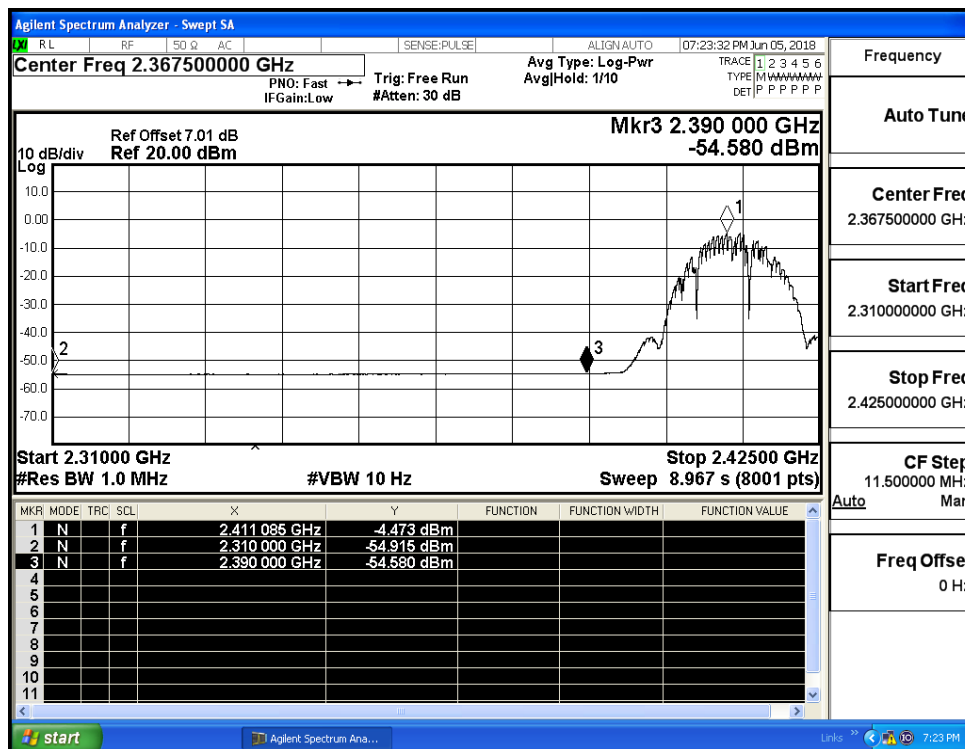
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-45.51	2.0	0	49.75	PEAK	74	PASS
	2412	Ant1	2310.0	-54.92	2.0	0	40.34	AV	54	PASS
	2412	Ant1	2390.0	-44.25	2.0	0	51.01	PEAK	74	PASS
	2412	Ant1	2390.0	-54.58	2.0	0	40.68	AV	54	PASS
	2462	Ant1	2483.5	-44.22	2.0	0	51.04	PEAK	74	PASS
	2462	Ant1	2483.5	-54.38	2.0	0	40.88	AV	54	PASS
	2462	Ant1	2500.0	-43.65	2.0	0	51.60	PEAK	74	PASS
	2462	Ant1	2500.0	-54.26	2.0	0	41.00	AV	54	PASS
11G	2412	Ant1	2310.0	-44.24	2.0	0	51.02	PEAK	74	PASS
	2412	Ant1	2310.0	-55.00	2.0	0	40.26	AV	54	PASS
	2412	Ant1	2390.0	-43.93	2.0	0	51.33	PEAK	74	PASS
	2412	Ant1	2390.0	-54.64	2.0	0	40.62	AV	54	PASS
	2462	Ant1	2483.5	-44.26	2.0	0	51.00	PEAK	74	PASS
	2462	Ant1	2483.5	-54.55	2.0	0	40.71	AV	54	PASS
	2462	Ant1	2500.0	-44.36	2.0	0	50.90	PEAK	74	PASS
	2462	Ant1	2500.0	-54.35	2.0	0	40.91	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.73	2.0	0	51.53	PEAK	74	PASS
	2412	Ant1	2310.0	-54.98	2.0	0	40.28	AV	54	PASS
	2412	Ant1	2390.0	-43.93	2.0	0	51.33	PEAK	74	PASS
	2412	Ant1	2390.0	-54.68	2.0	0	40.57	AV	54	PASS
	2462	Ant1	2483.5	-44.11	2.0	0	51.14	PEAK	74	PASS
	2462	Ant1	2483.5	-54.47	2.0	0	40.78	AV	54	PASS
	2462	Ant1	2500.0	-43.88	2.0	0	51.38	PEAK	74	PASS
	2462	Ant1	2500.0	-54.33	2.0	0	40.92	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.90	2.0	0	51.35	PEAK	74	PASS
	2422	Ant1	2310.0	-54.96	2.0	0	40.30	AV	54	PASS

	2422	Ant1	2390.0	-43.87	2.0	0	51.39	PEAK	74	PASS
	2422	Ant1	2390.0	-54.66	2.0	0	40.60	AV	54	PASS
	2452	Ant1	2483.5	-41.88	2.0	0	53.38	PEAK	74	PASS
	2452	Ant1	2483.5	-54.51	2.0	0	40.75	AV	54	PASS
	2452	Ant1	2500.0	-43.87	2.0	0	51.39	PEAK	74	PASS
	2452	Ant1	2500.0	-54.37	2.0	0	40.89	AV	54	PASS

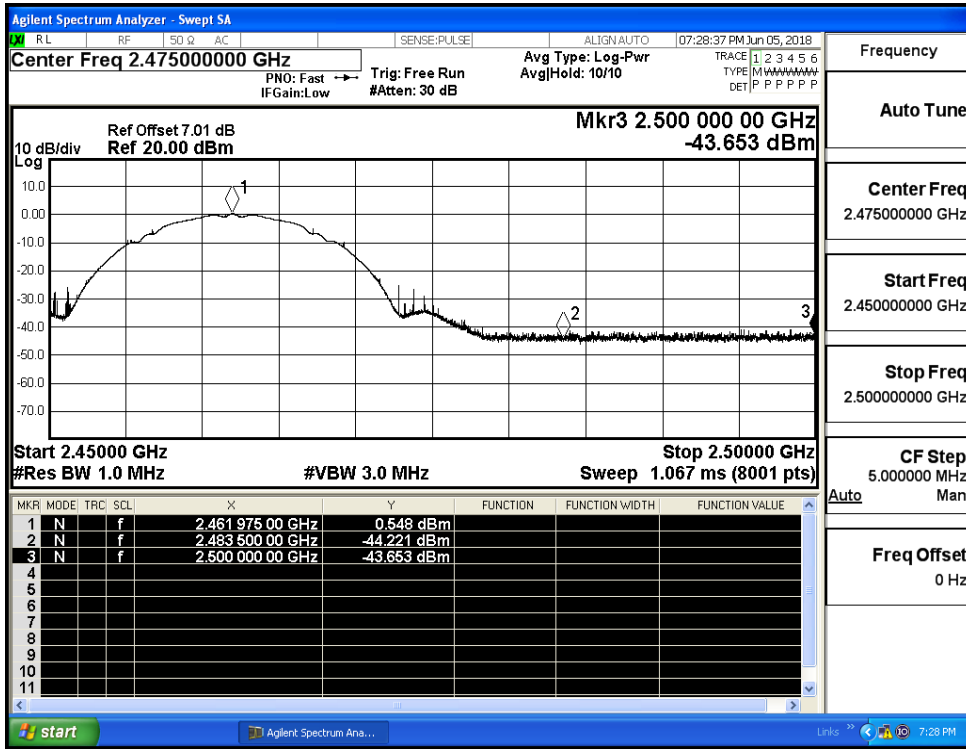
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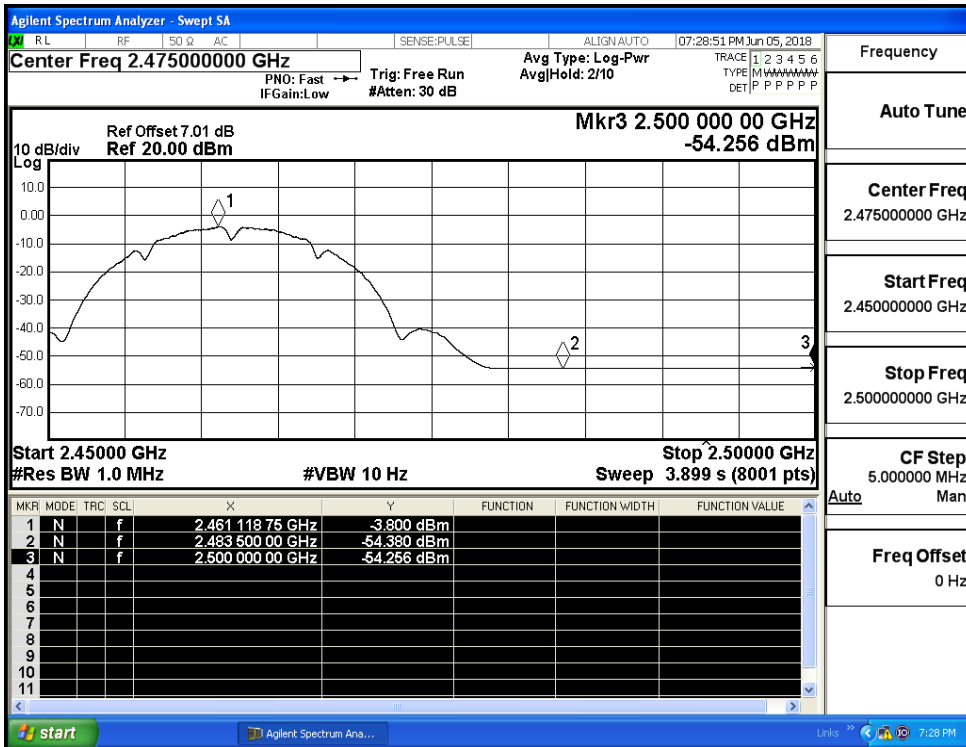
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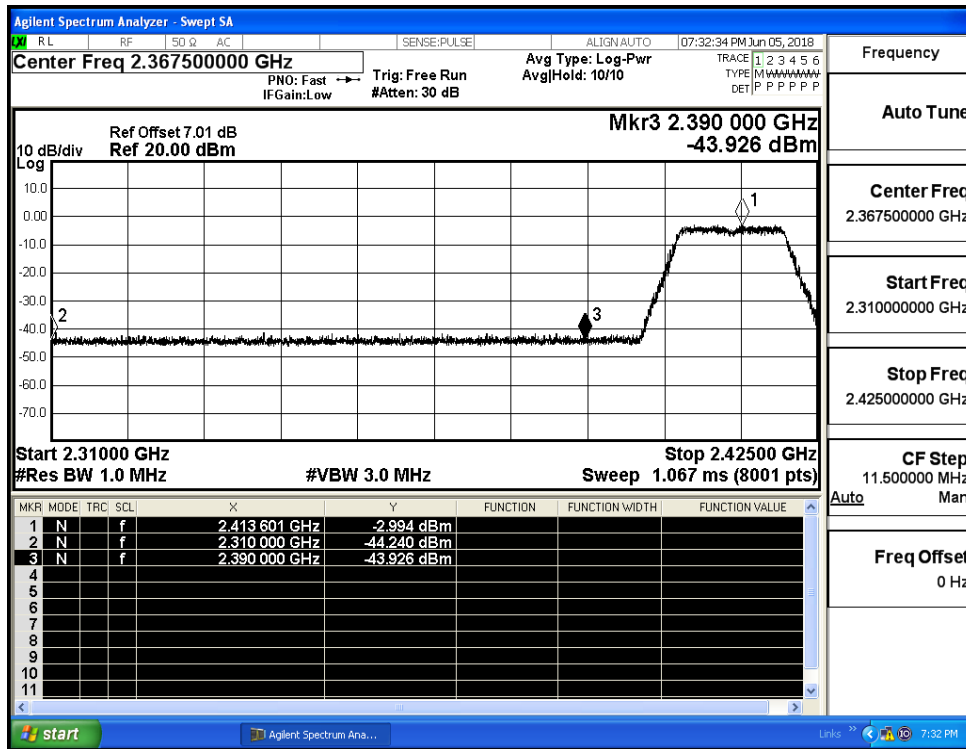


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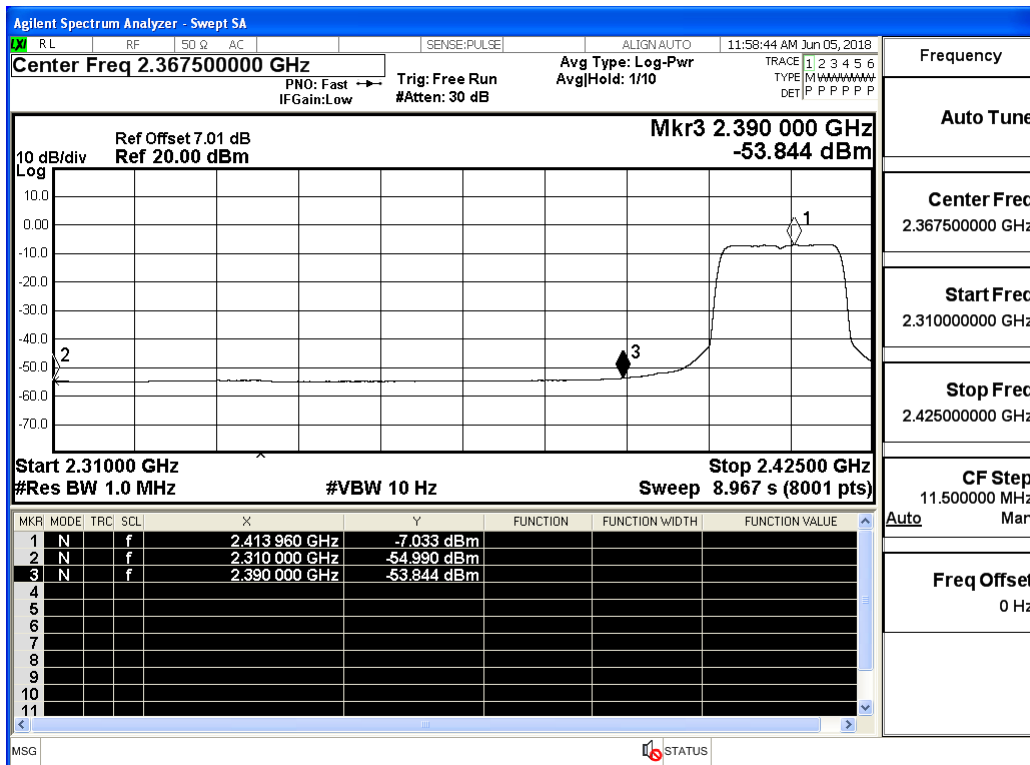




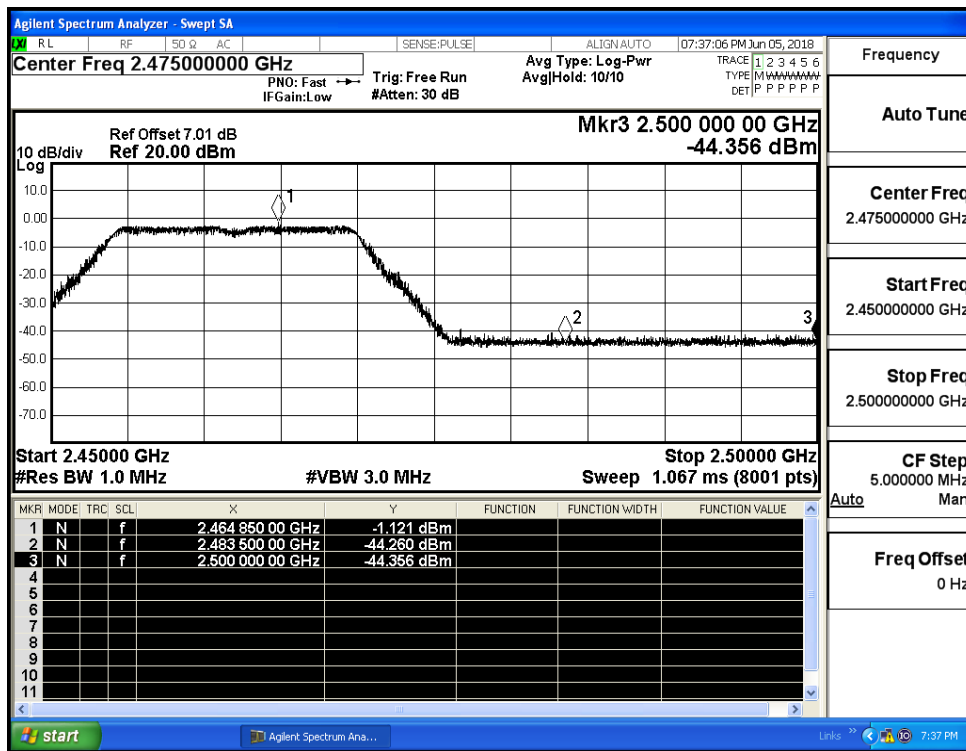
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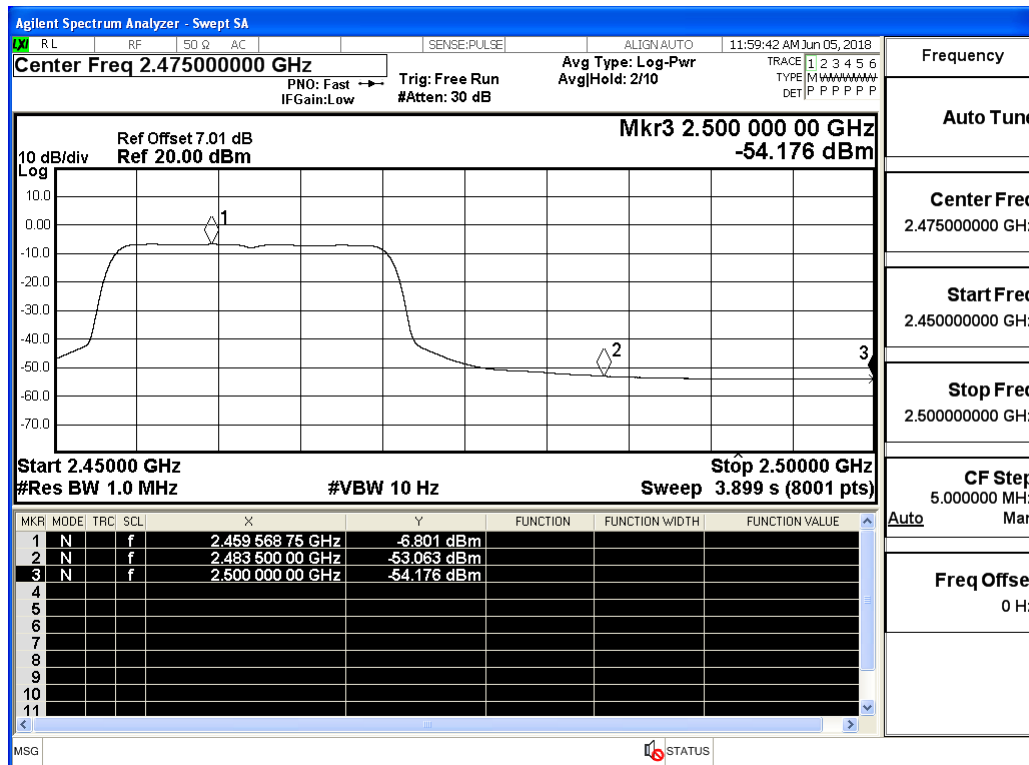
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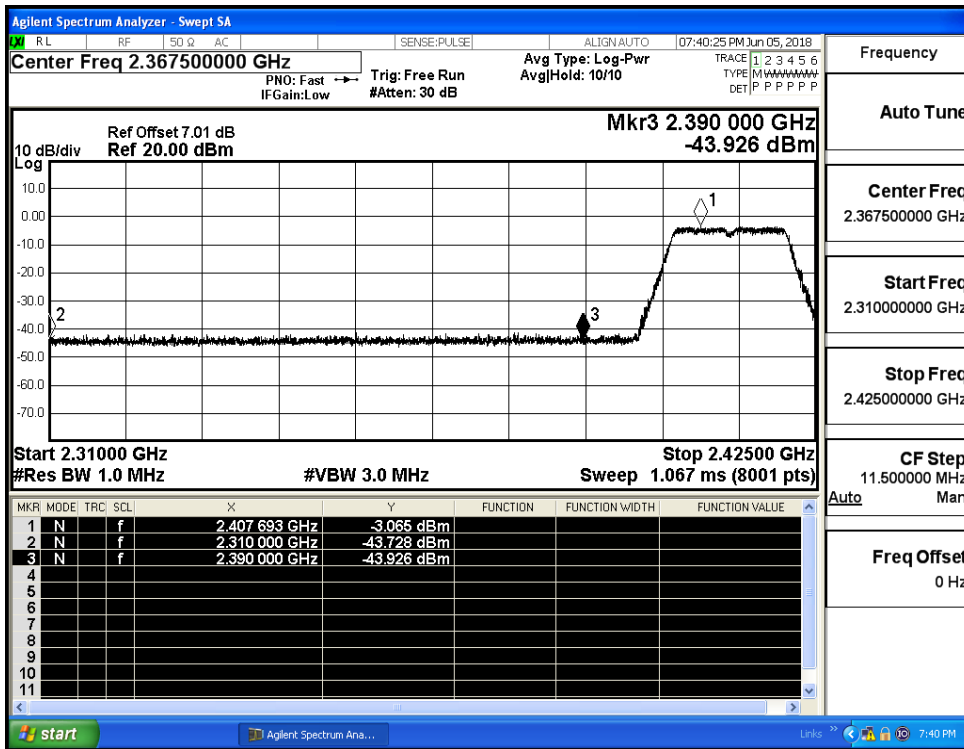
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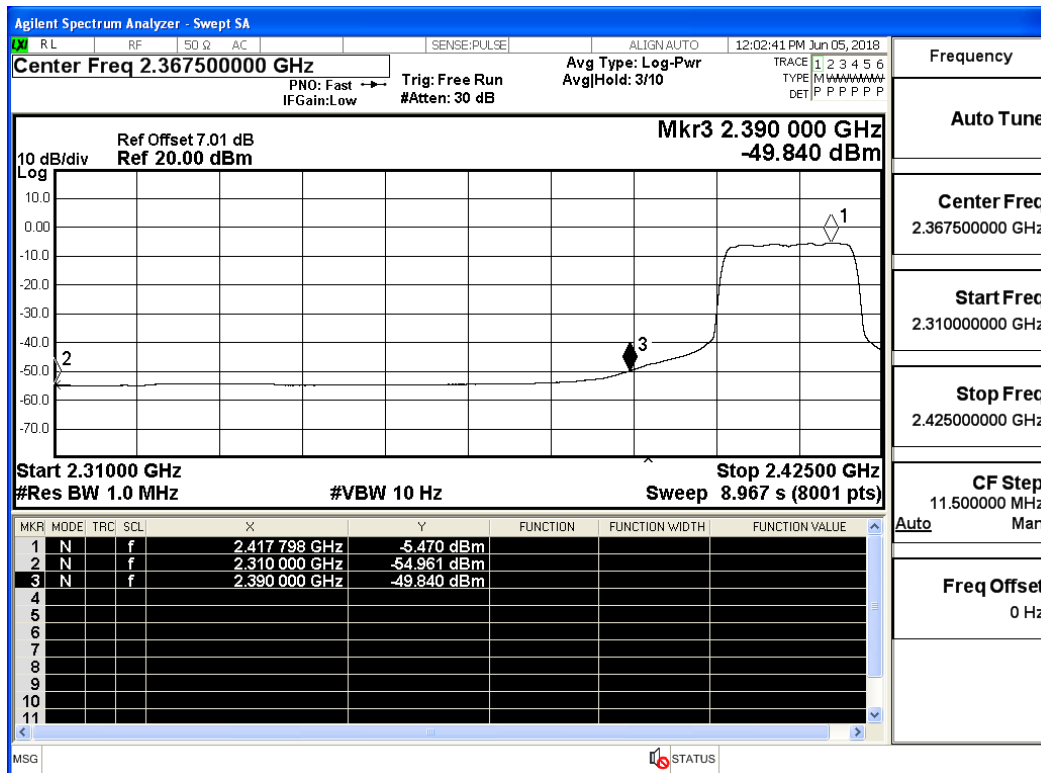
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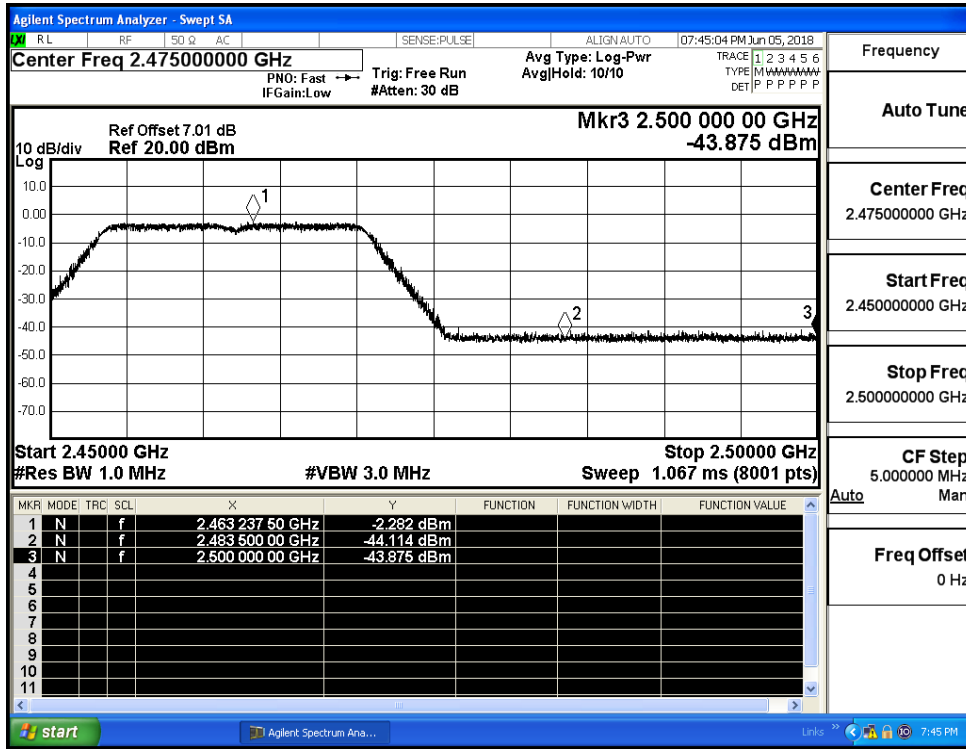
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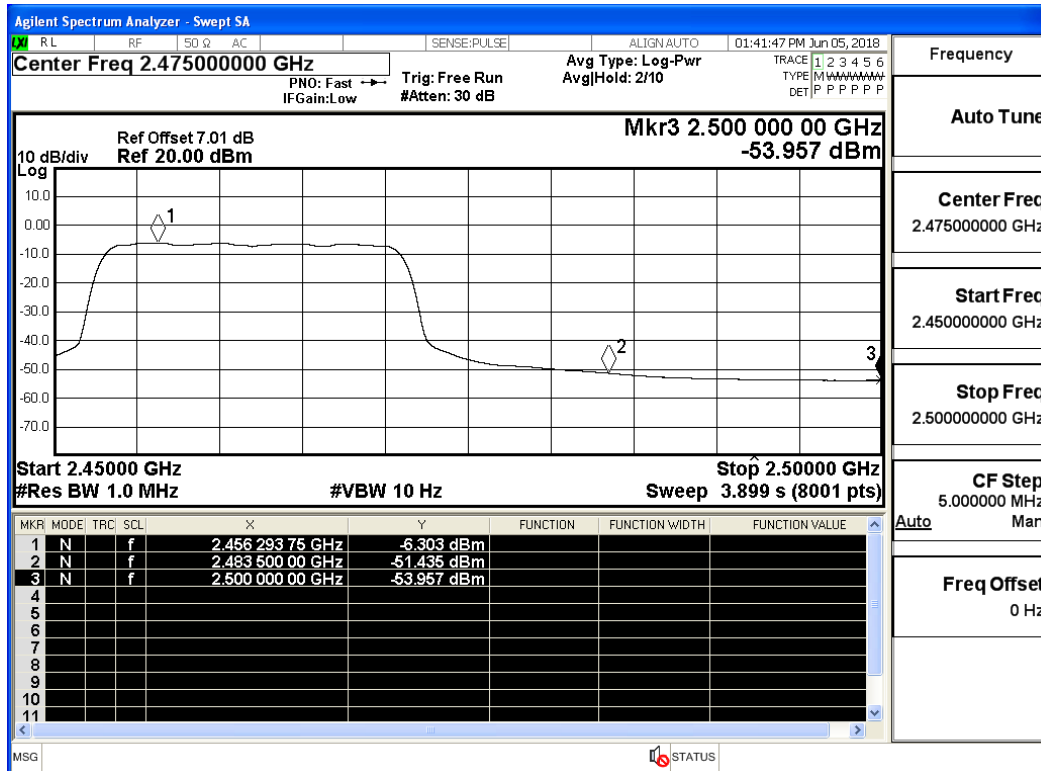
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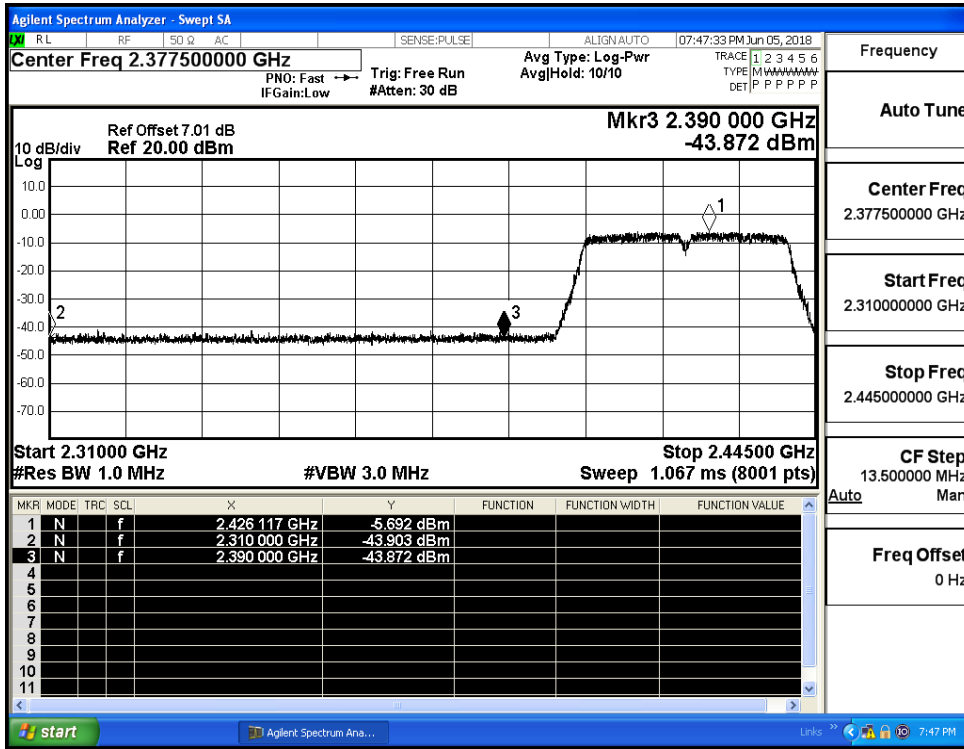
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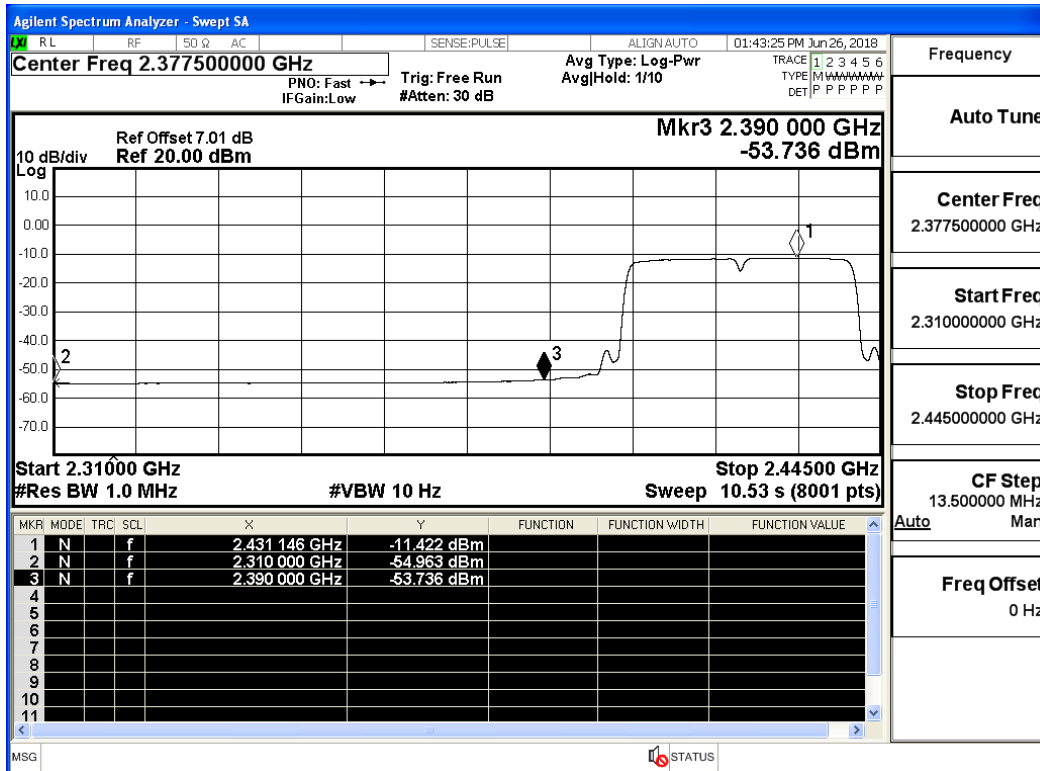
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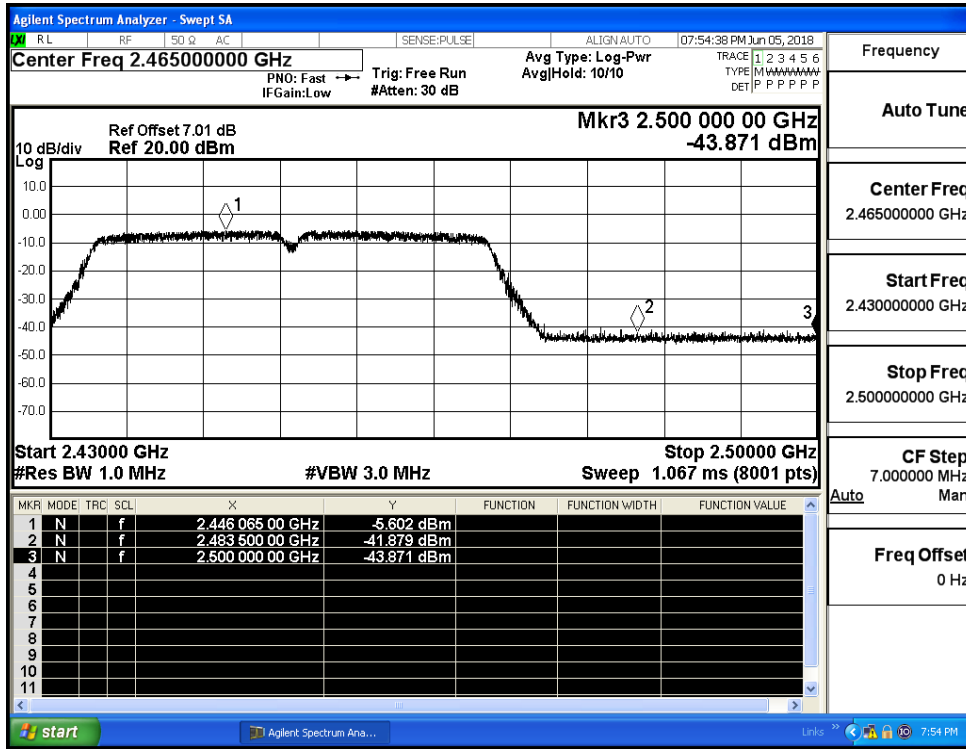
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Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

