

## Appendix C

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

Product Name: Tablet pc

Trade Mark: **HYUNDAI**

Test Model: 10WB1

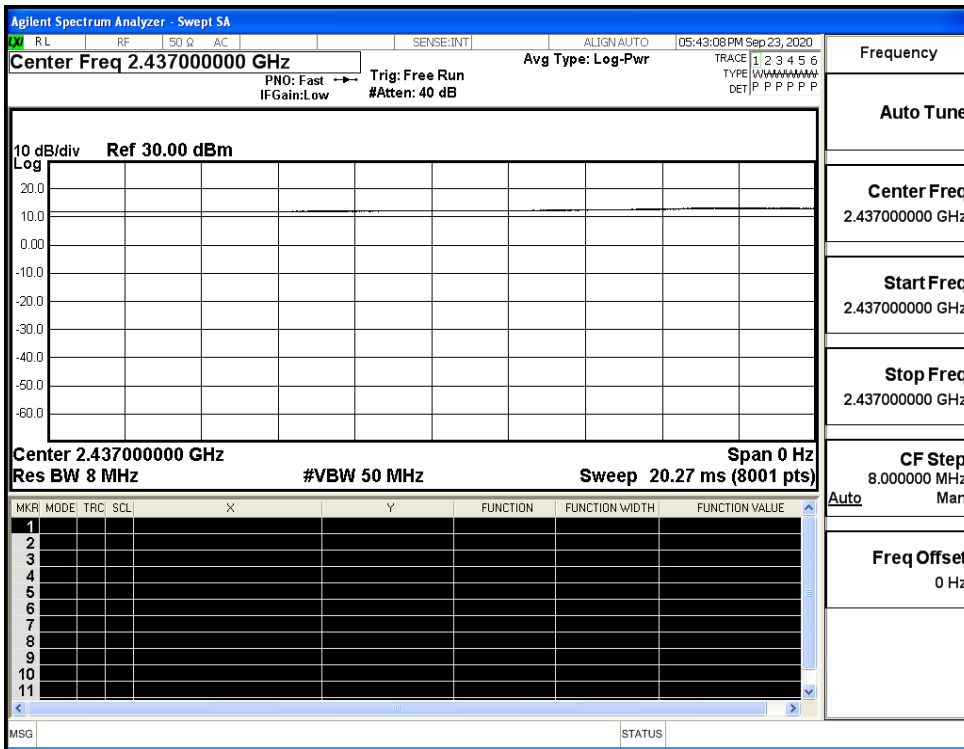
#### Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Li huan
Supervised by:	Tom.Liu

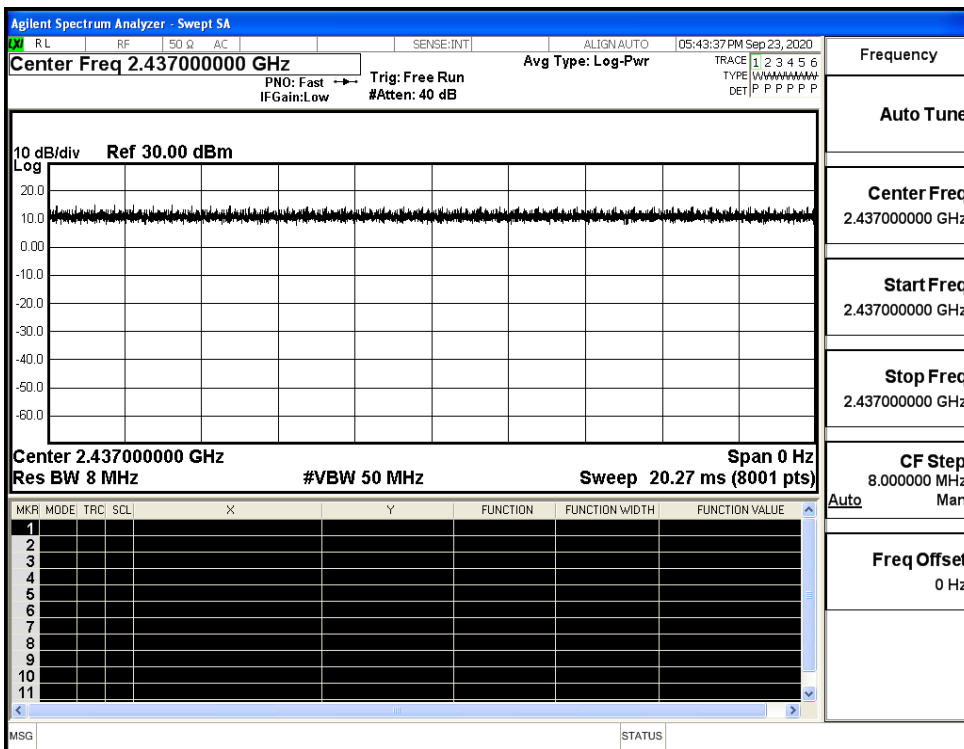
#### C.1 Duty Cycle

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

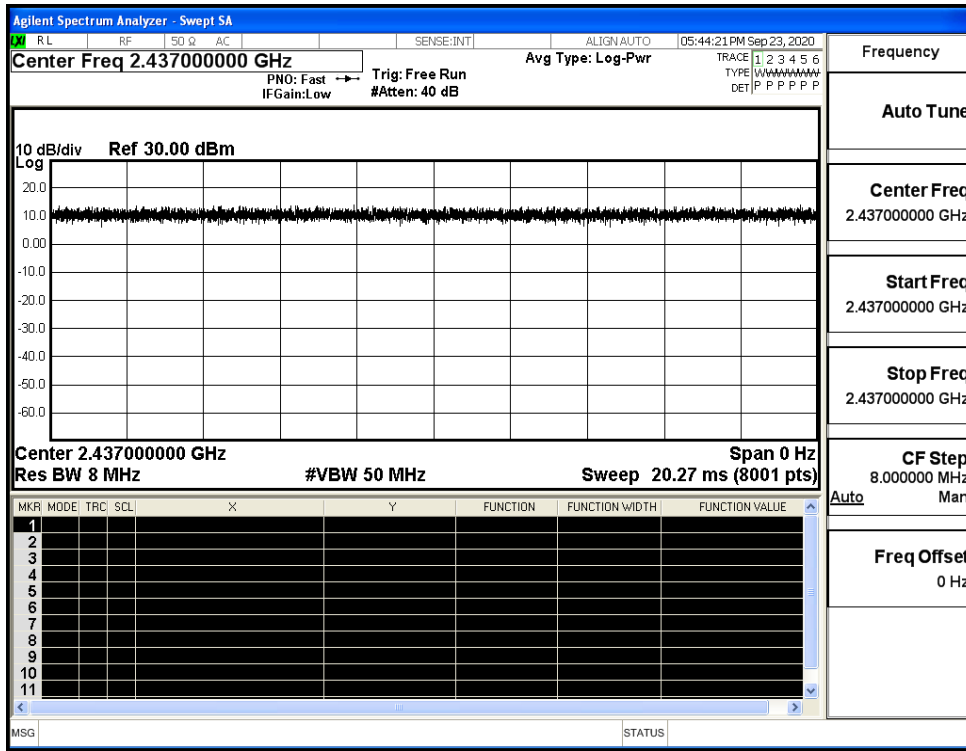
Duty Cycle\_11B\_2437\_Ant1



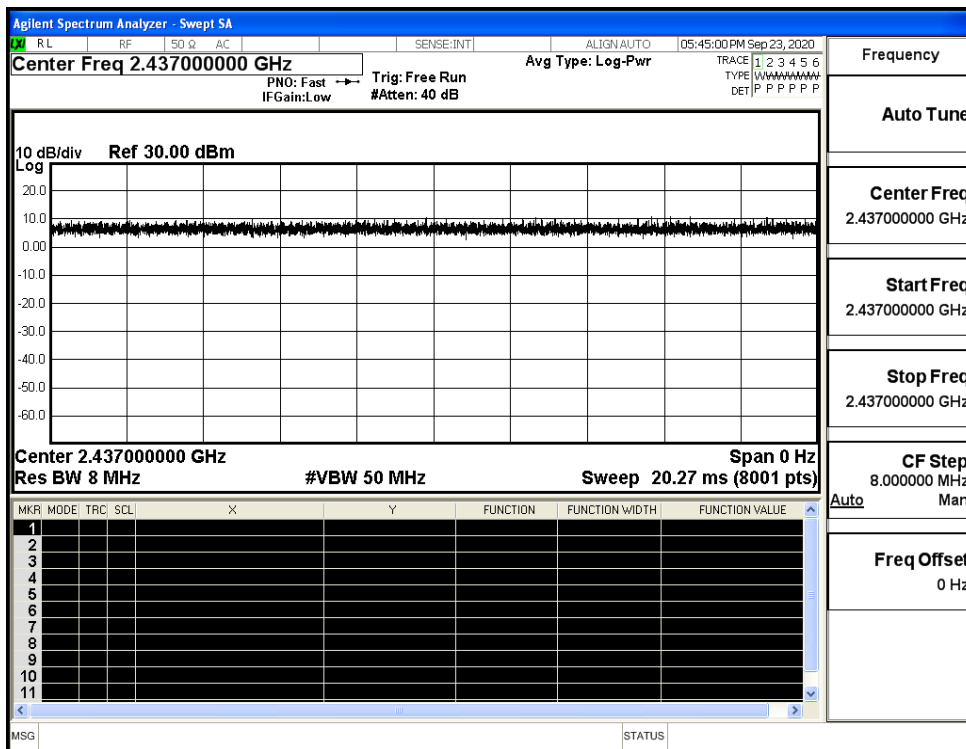
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



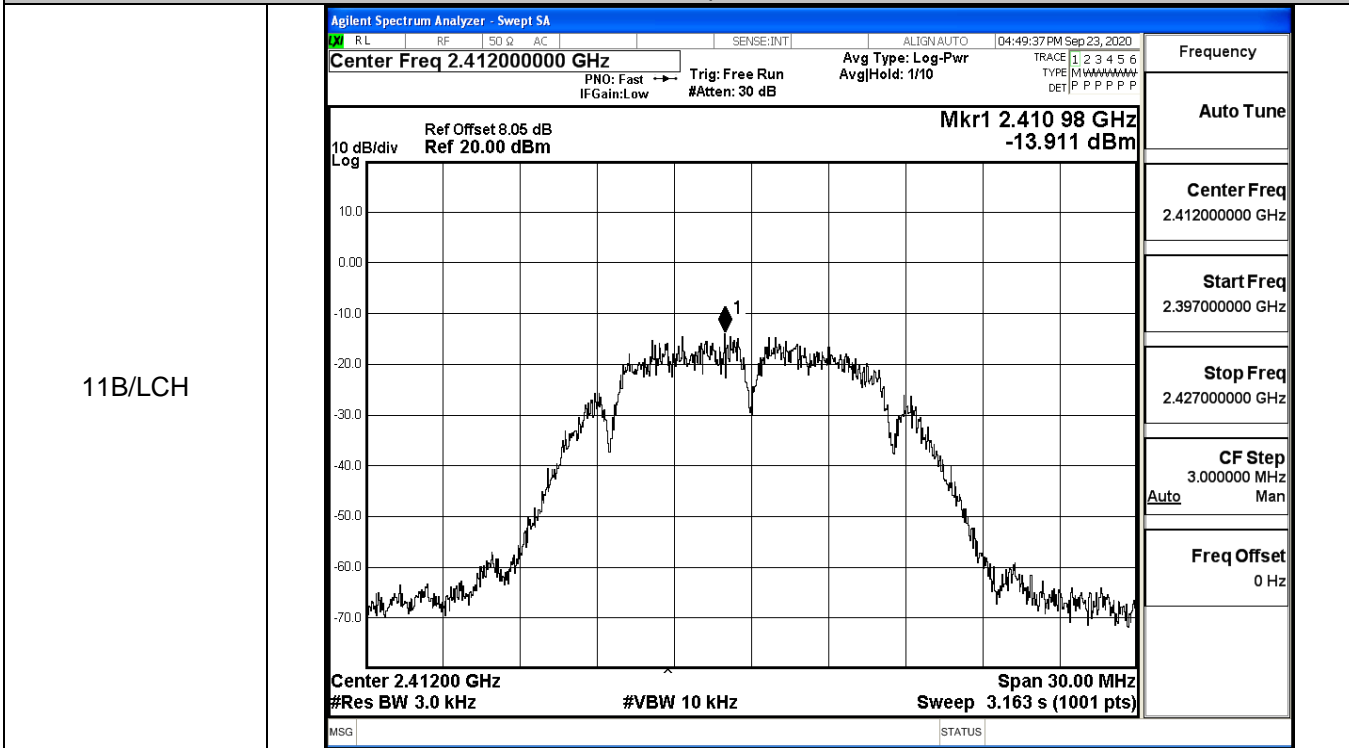
**C.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	8.90	30	PASS
	MCH	8.69	30	PASS
	HCH	8.37	30	PASS
11G	LCH	9.08	30	PASS
	MCH	8.29	30	PASS
	HCH	8.84	30	PASS
11N20SISO	LCH	8.79	30	PASS
	MCH	8.85	30	PASS
	HCH	8.81	30	PASS
11N40SISO	LCH	8.68	30	PASS
	MCH	8.75	30	PASS
	HCH	8.69	30	PASS

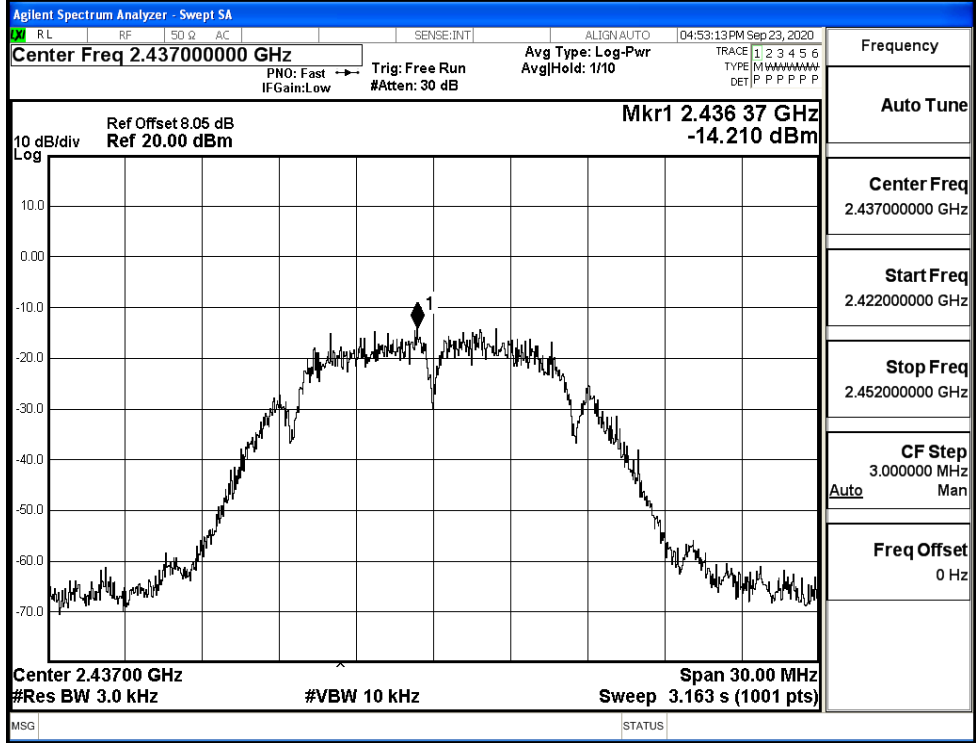
### C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-13.911	8	PASS
	MCH	-14.210	8	PASS
	HCH	-14.661	8	PASS
11G	LCH	-21.569	8	PASS
	MCH	-20.299	8	PASS
	HCH	-21.450	8	PASS
11N20SISO	LCH	-22.076	8	PASS
	MCH	-20.437	8	PASS
	HCH	-19.938	8	PASS
11N40SISO	LCH	-23.247	8	PASS
	MCH	-22.226	8	PASS
	HCH	-22.503	8	PASS

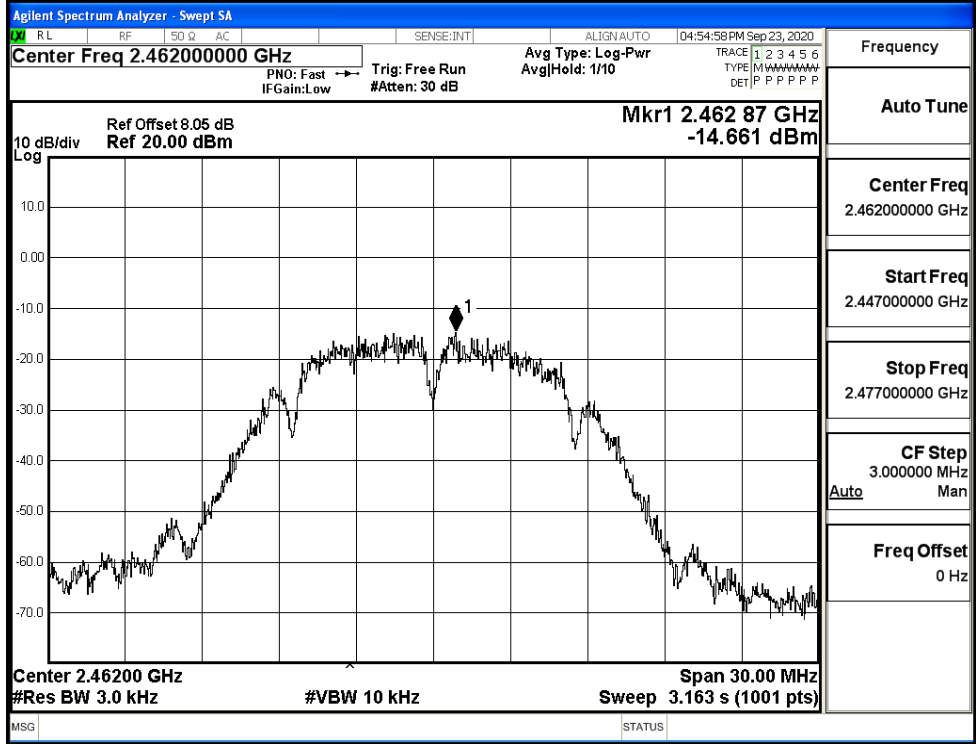
#### Test Graphs



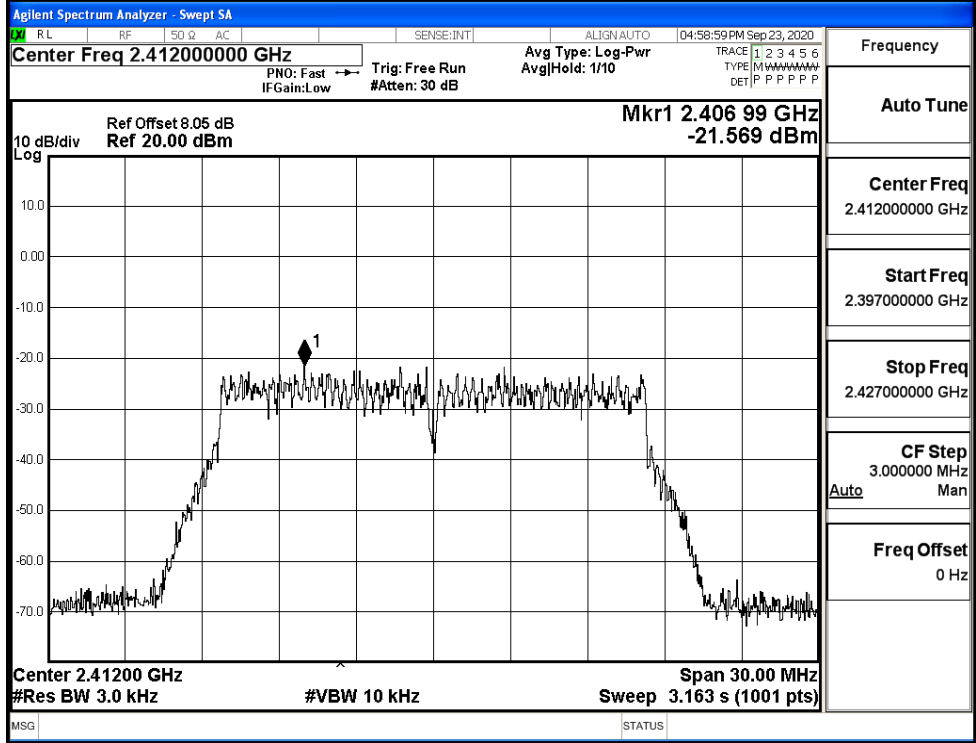
11B/MCH



11B/HCH

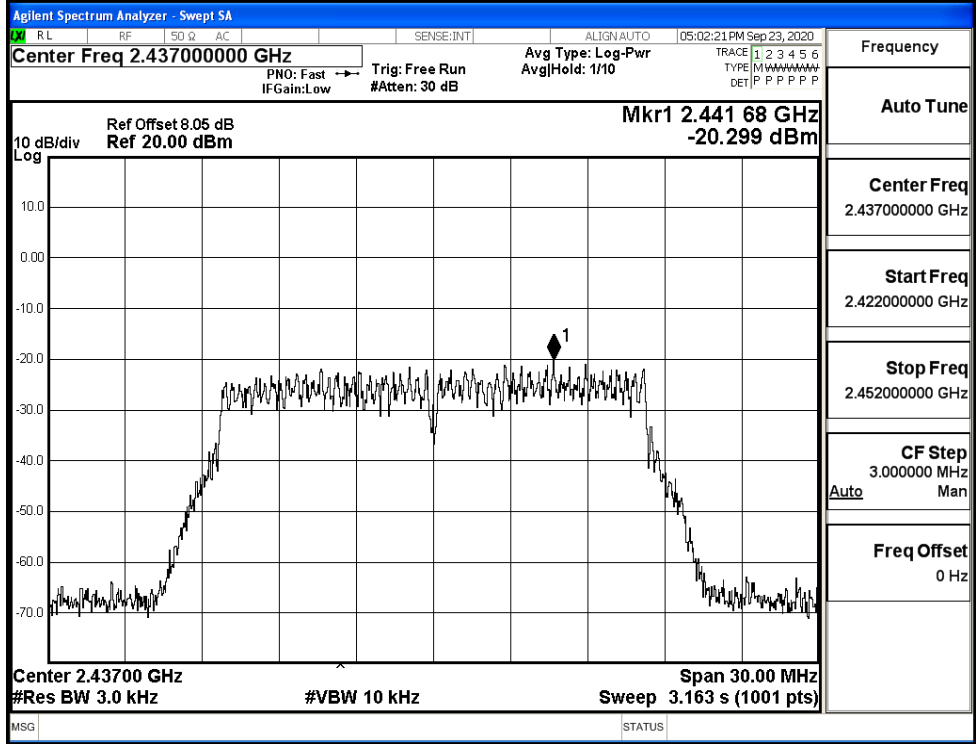


11G/LCH



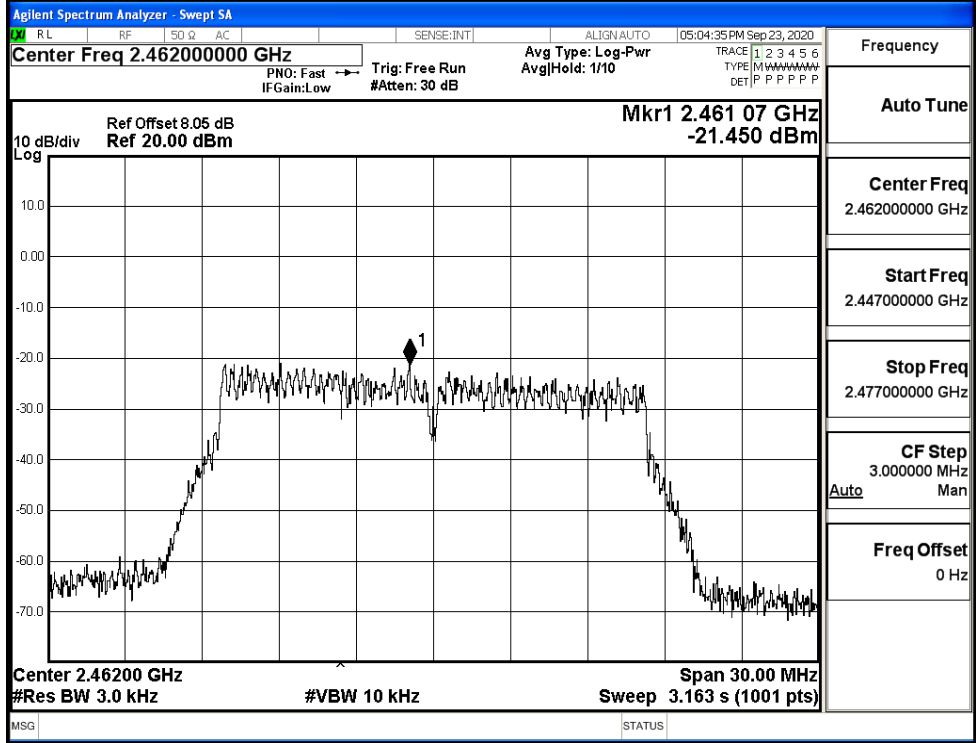
Frequency
Auto Tune
Center Freq 2.41200000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/MCH

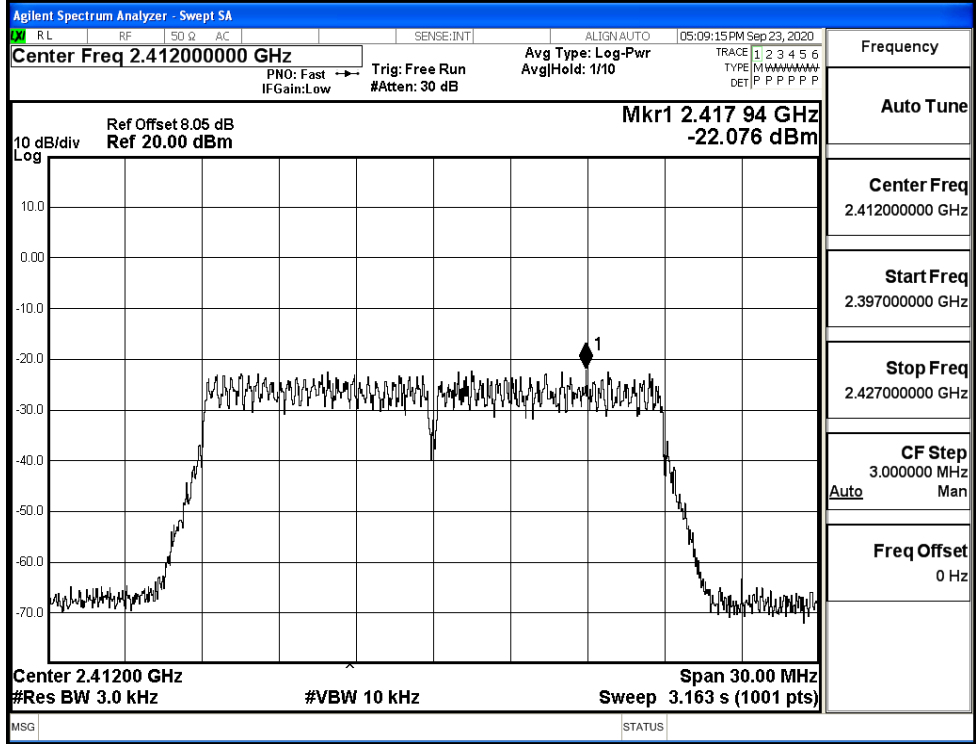


Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/HCH

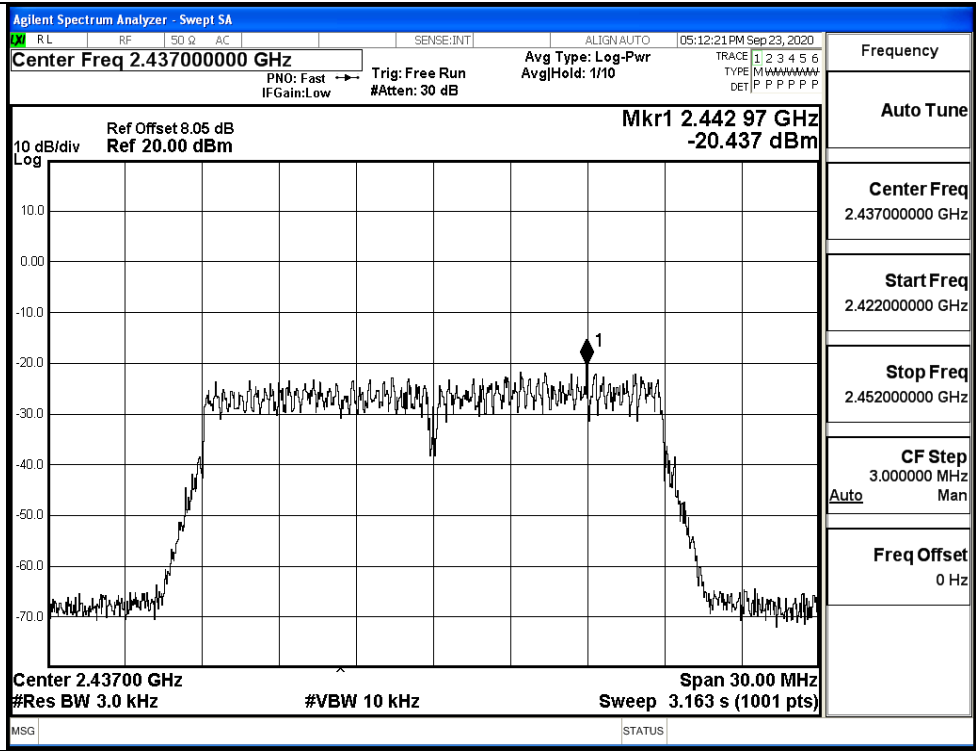


11N20SISO/LCH

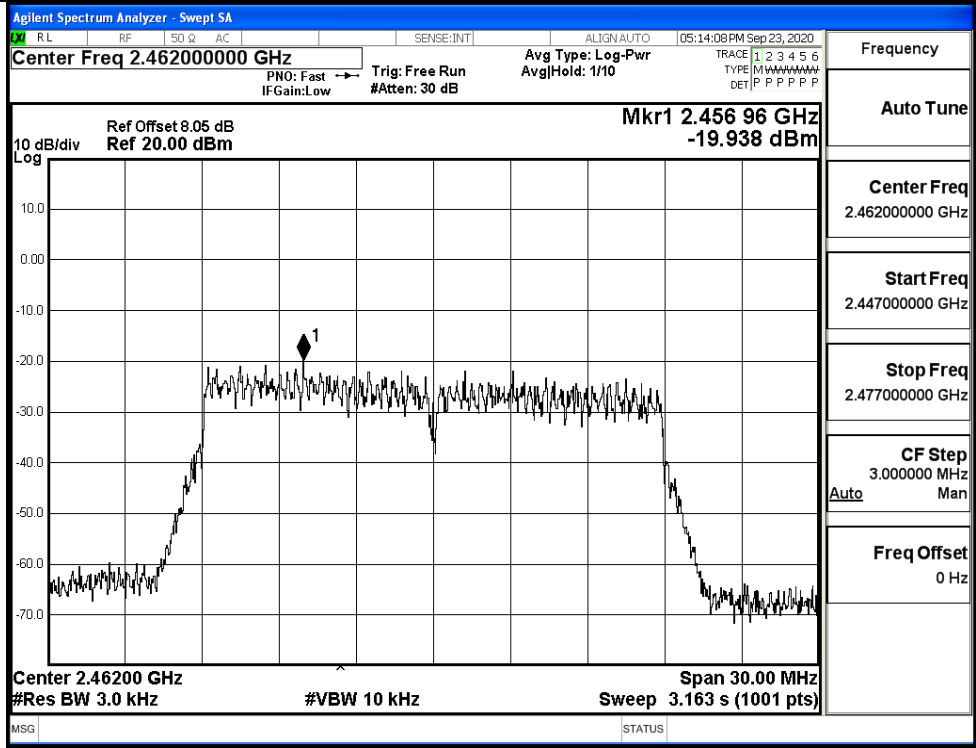




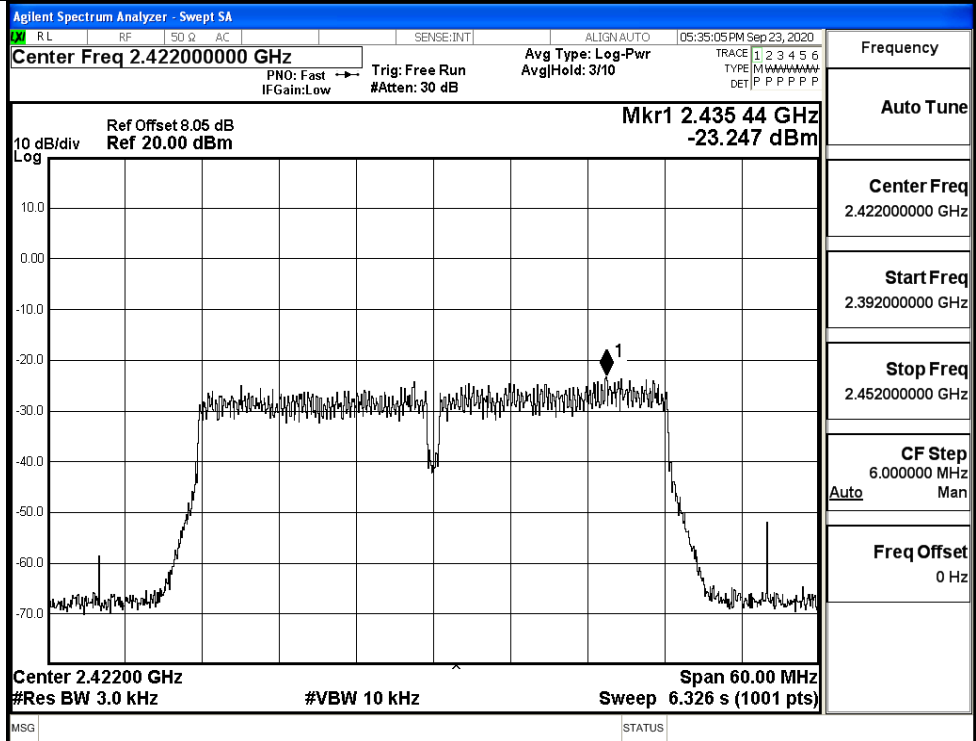
11N20SISO/MCH



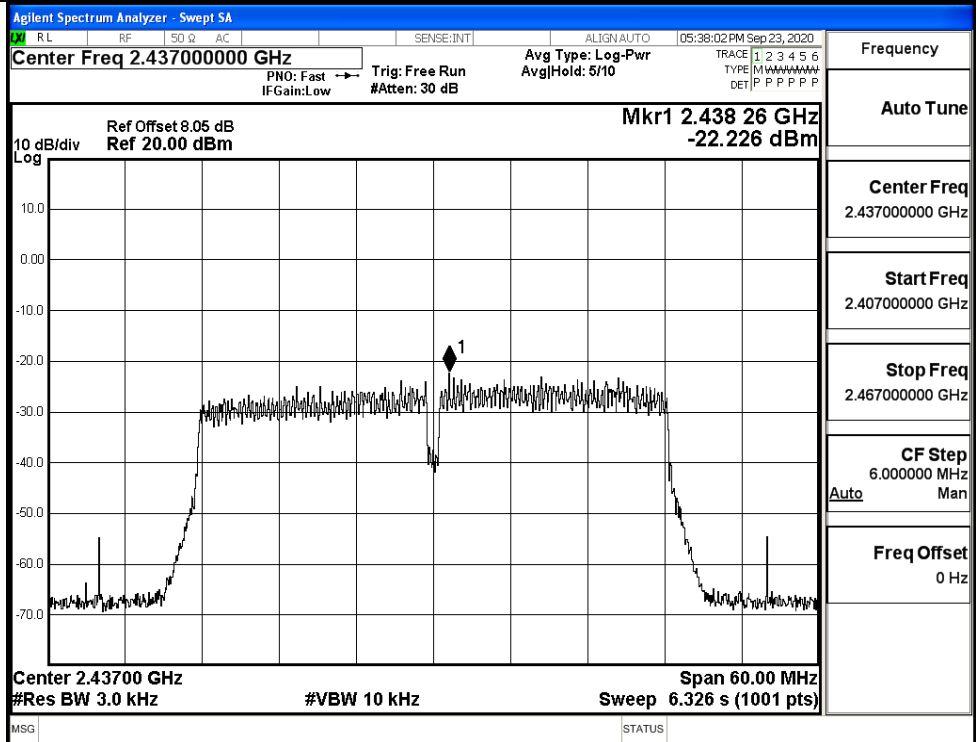
11N20SISO/HCH



11N40SISO/LCH



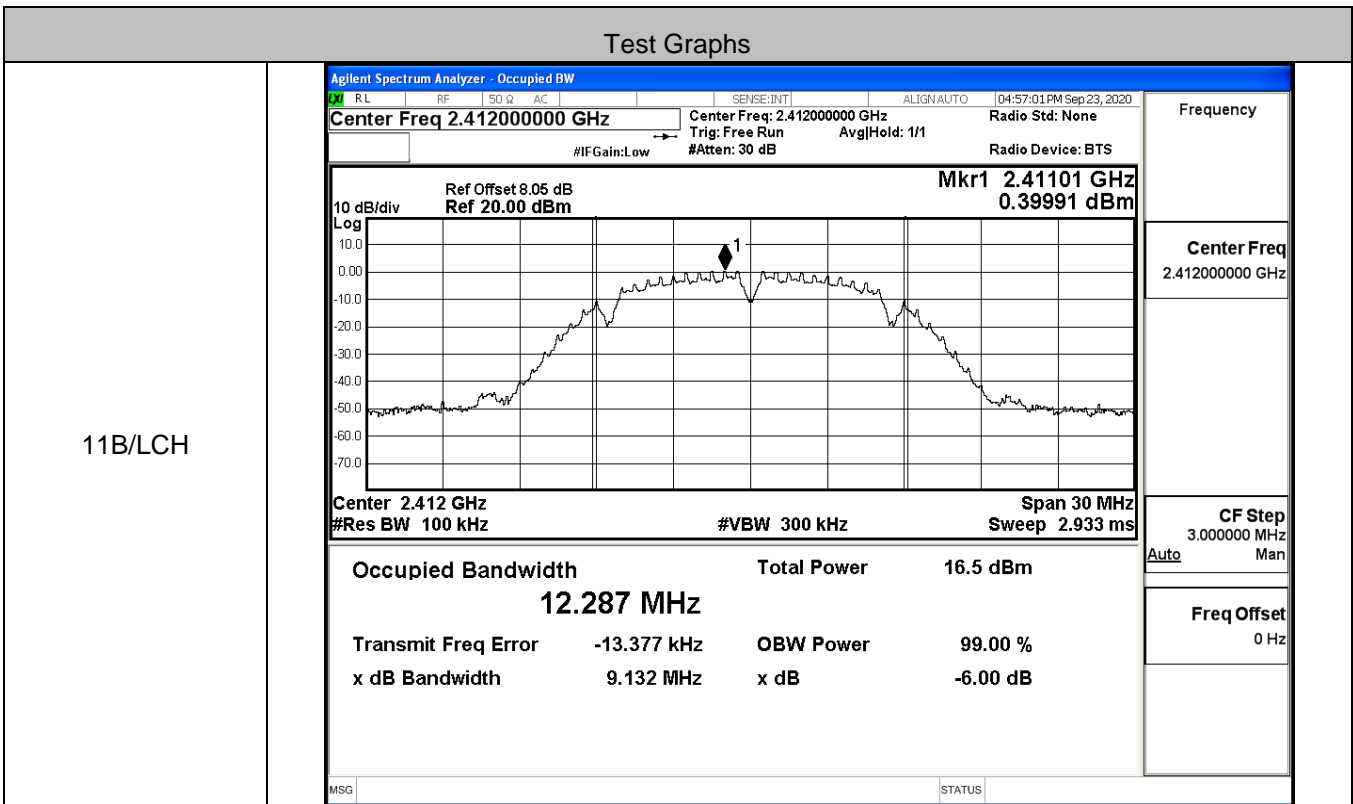
11N40SISO/MCH



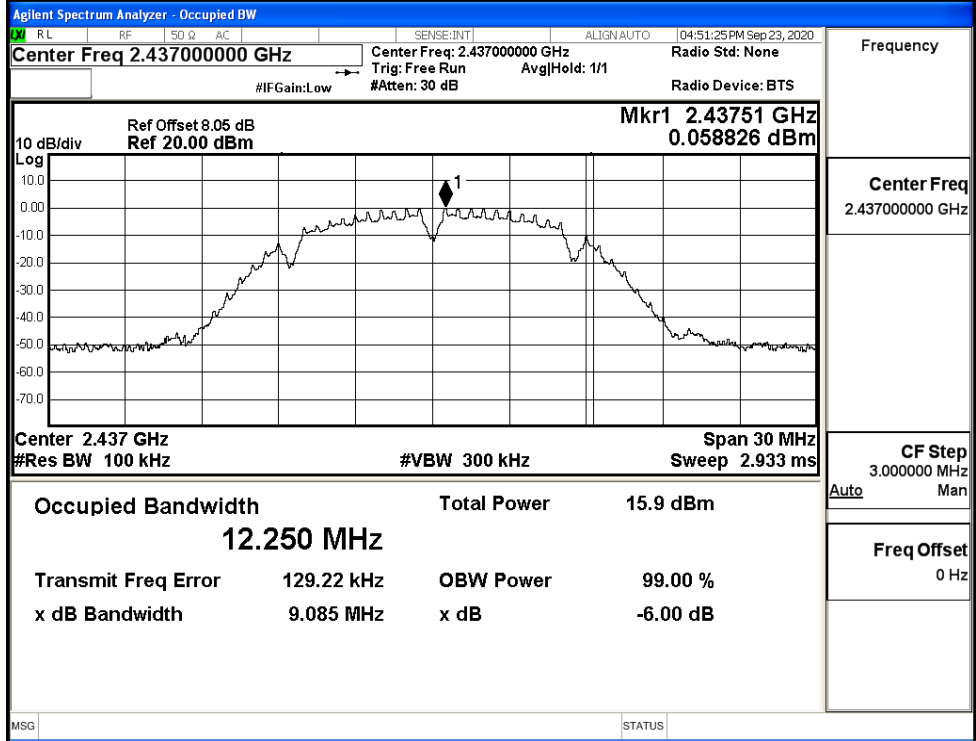


**C.4 6dB Bandwidth**

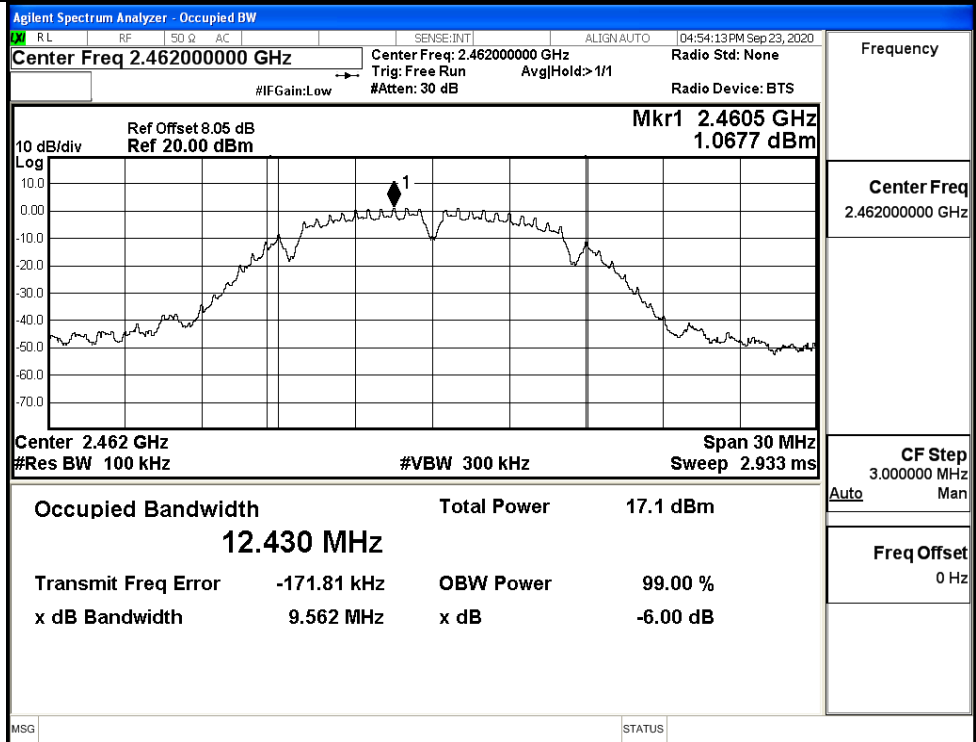
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.132	≥0.5	PASS
	MCH	9.085	≥0.5	PASS
	HCH	9.562	≥0.5	PASS
11G	LCH	15.16	≥0.5	PASS
	MCH	16.13	≥0.5	PASS
	HCH	15.84	≥0.5	PASS
11N20SISO	LCH	17.64	≥0.5	PASS
	MCH	17.37	≥0.5	PASS
	HCH	17.26	≥0.5	PASS
11N40SISO	LCH	35.91	≥0.5	PASS
	MCH	35.40	≥0.5	PASS
	HCH	35.48	≥0.5	PASS



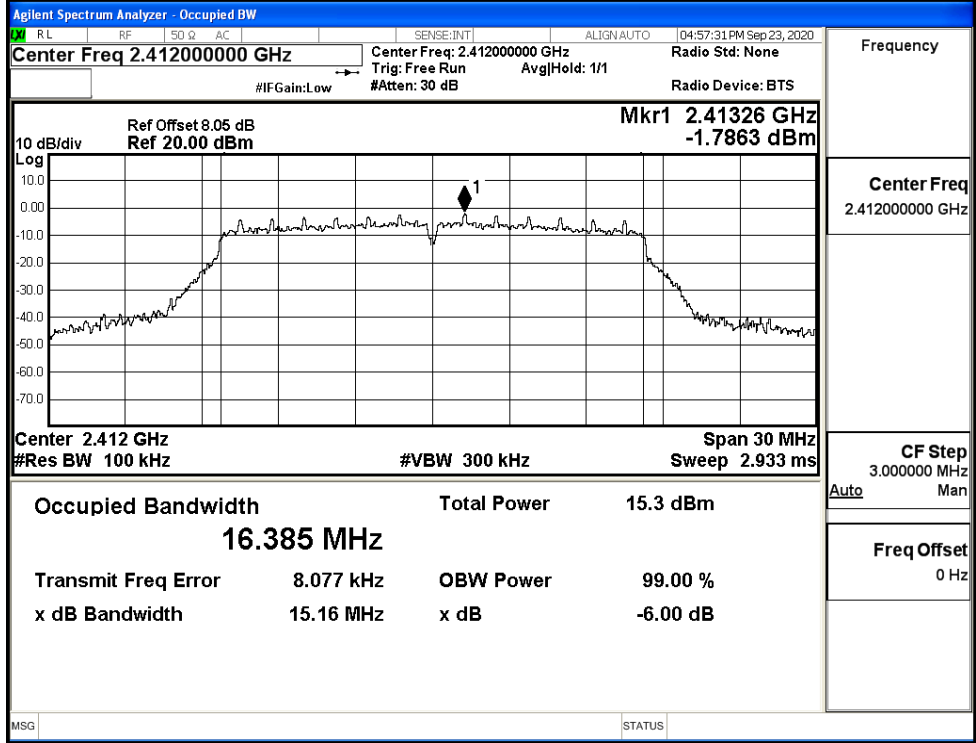
11B/MCH



11B/HCH

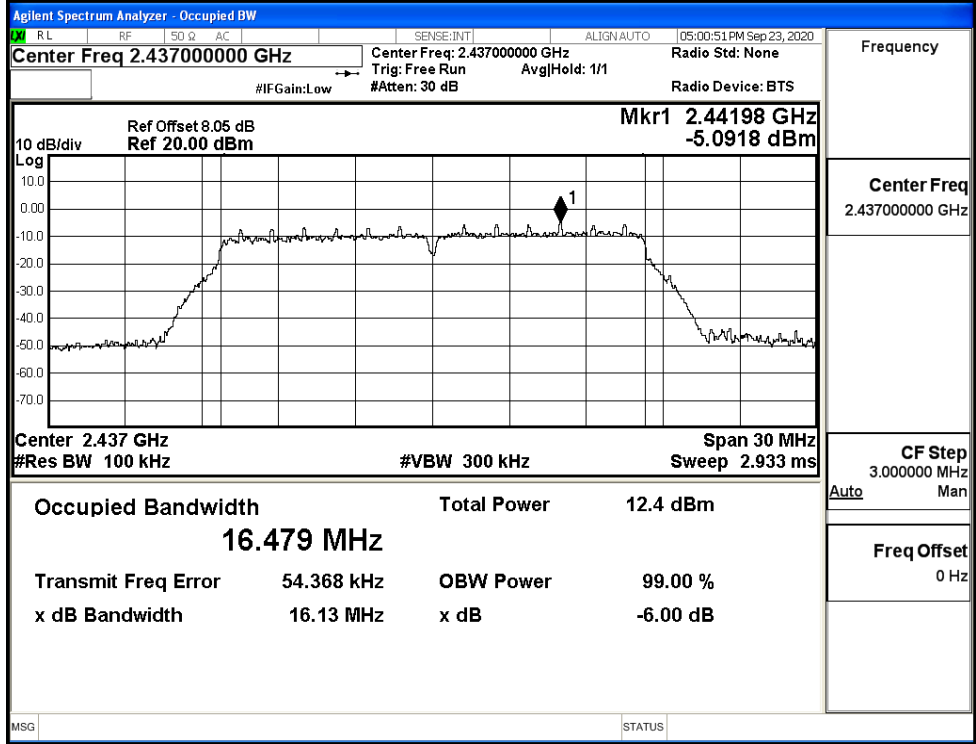


11G/LCH



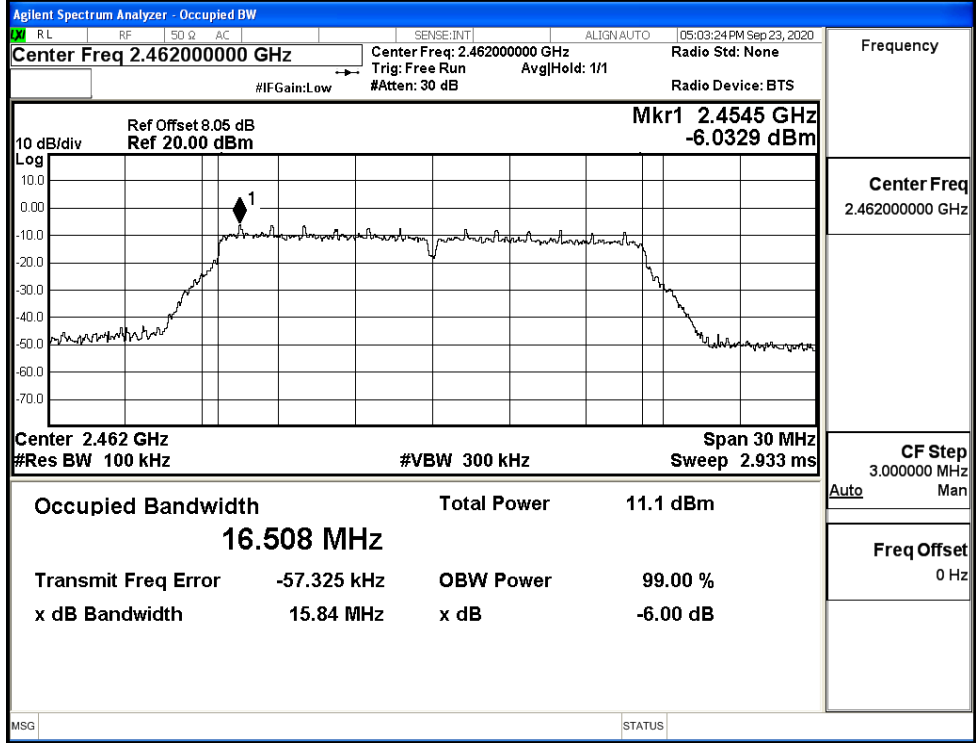
Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/MCH



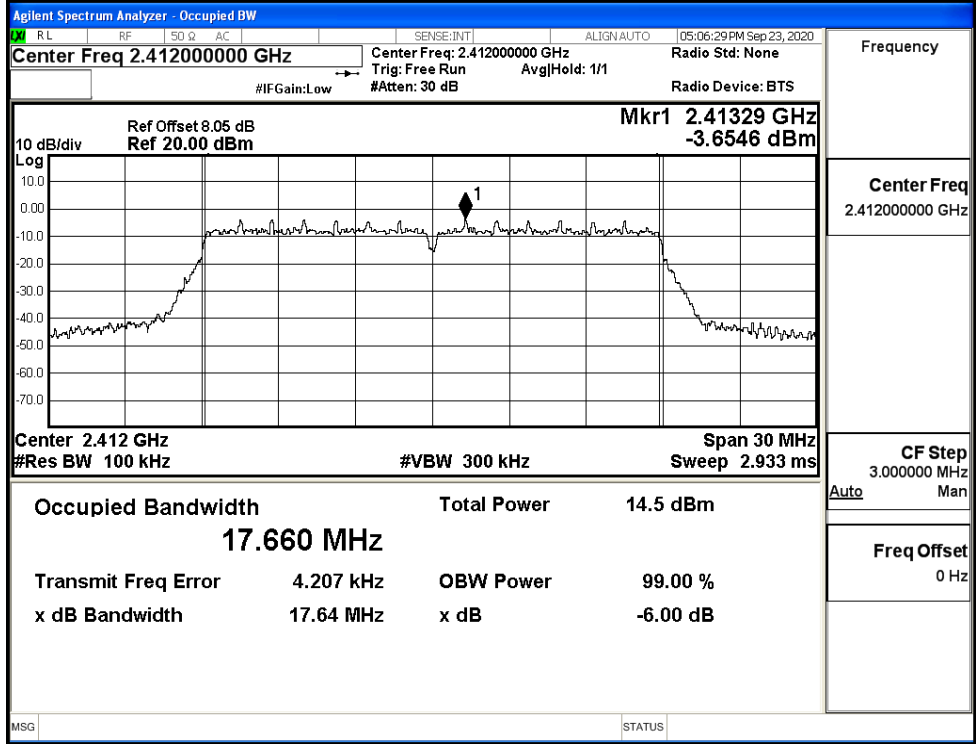
Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/HCH



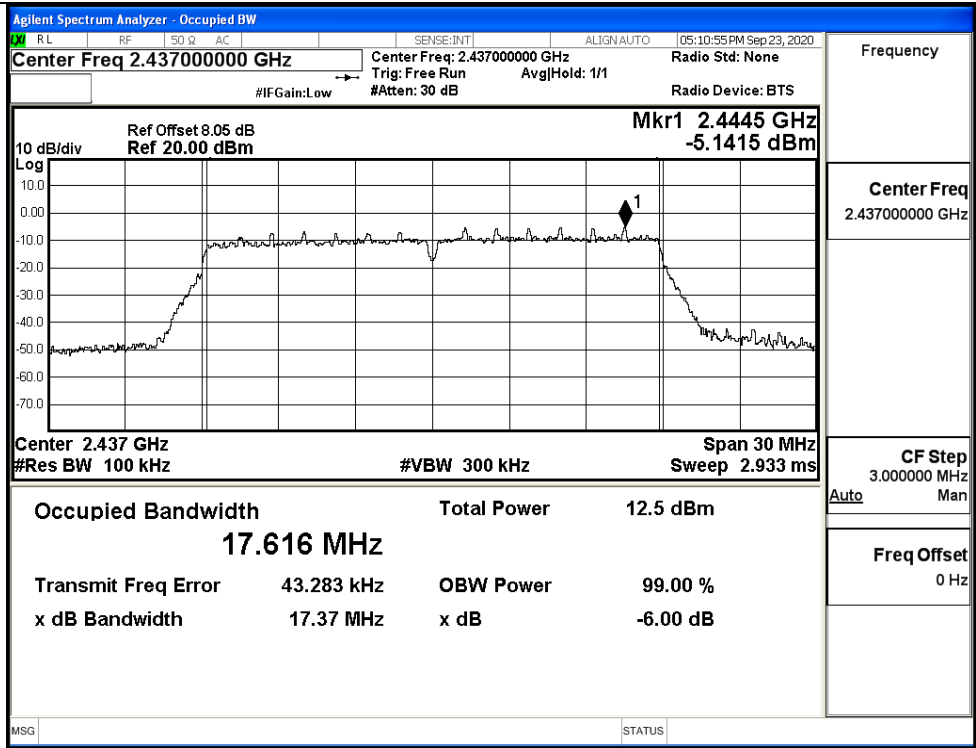
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

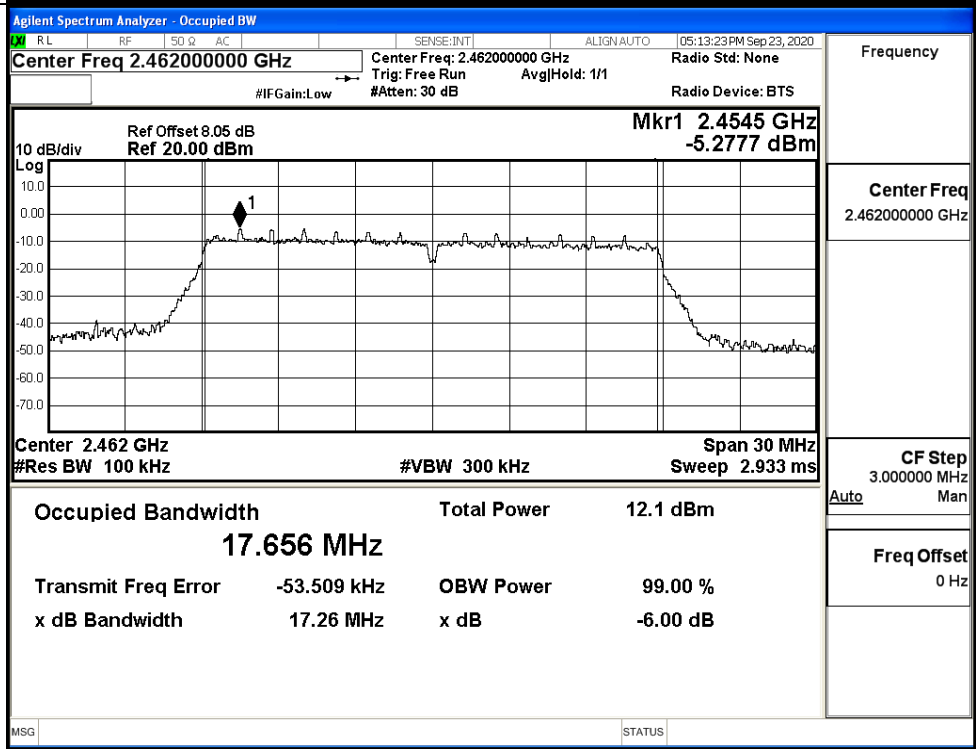


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH

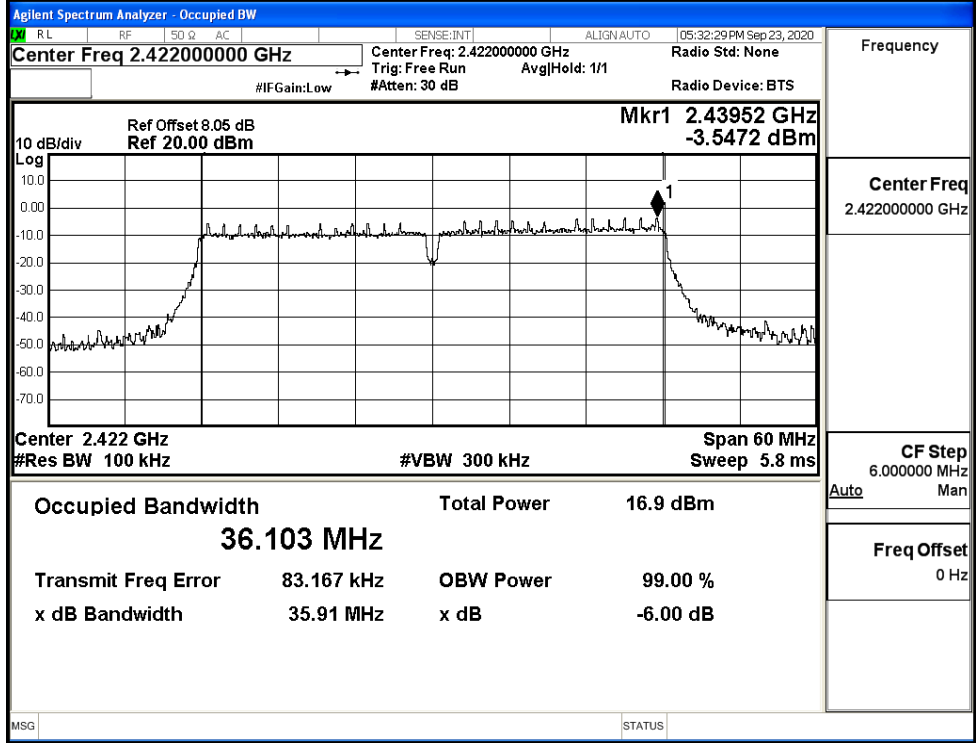


11N20SISO/HCH





11N40SISO/LCH



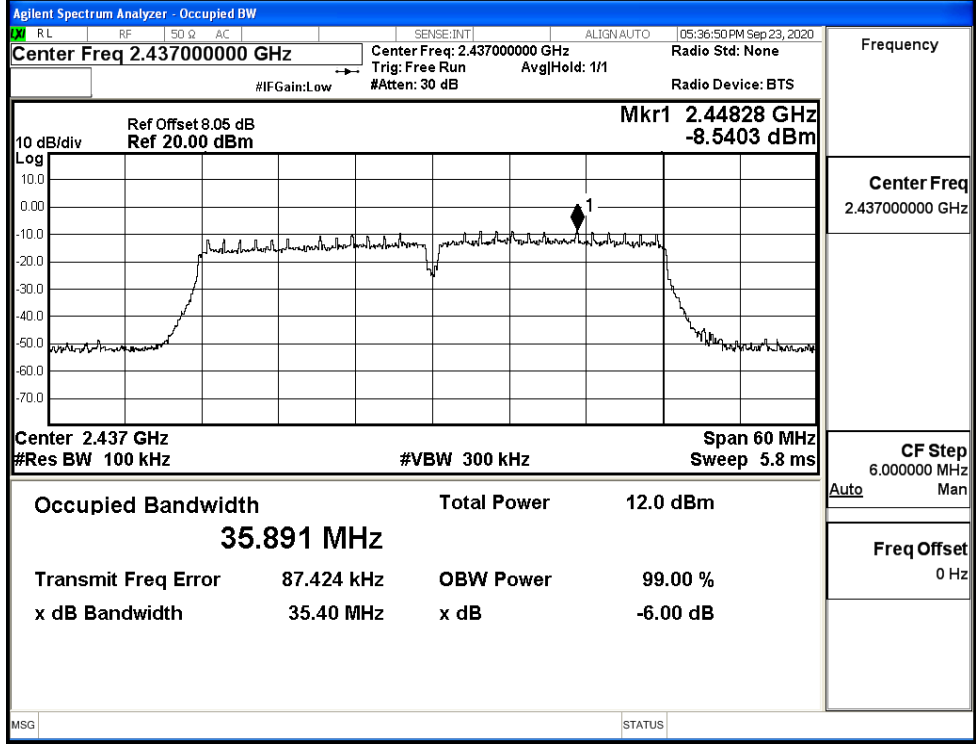
Frequency  
2.42200000 GHz

Center Freq  
2.42200000 GHz

CF Step  
6.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11N40SISO/MCH



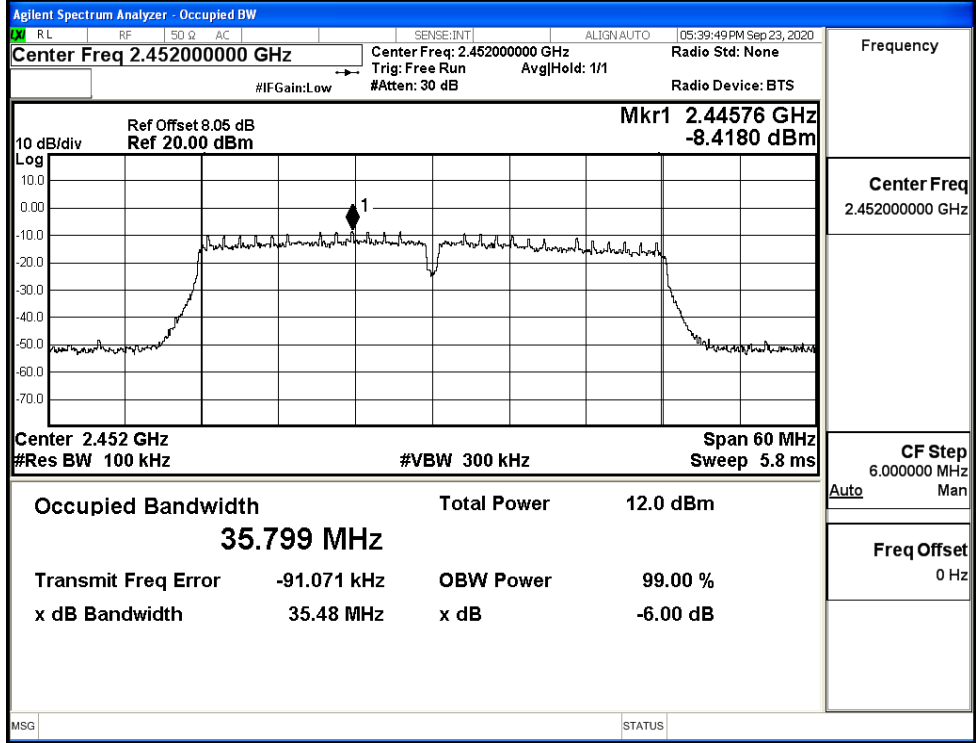
Frequency  
2.43700000 GHz

Center Freq  
2.43700000 GHz

CF Step  
6.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11N40SISO/HCH

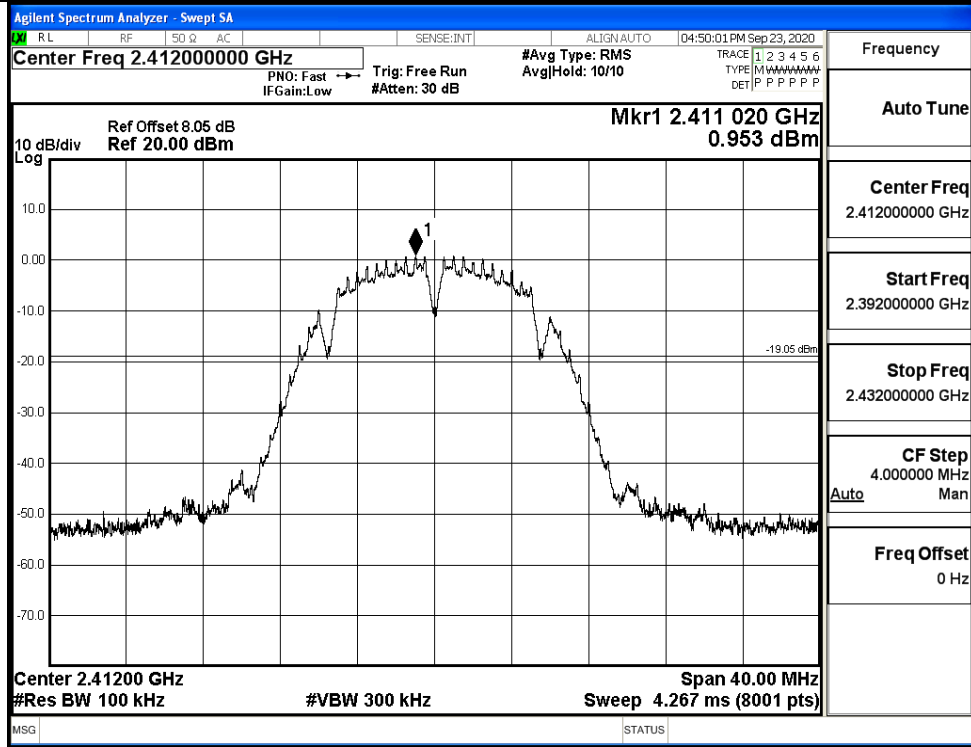


**C.5 RF Conducted Spurious Emissions**

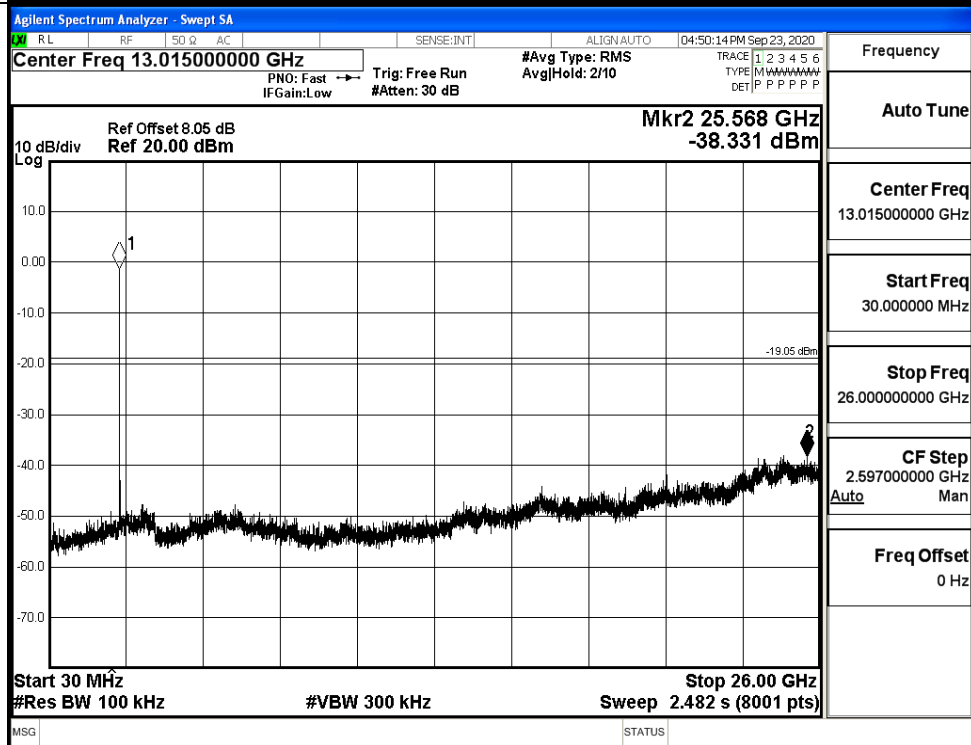
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.953	-38.331	-19.047	PASS
	MCH	0.834	-37.587	-19.166	PASS
	HCH	1.081	-37.621	-18.919	PASS
11G	LCH	-6.708	-38.078	-26.708	PASS
	MCH	-5.493	-38.092	-25.493	PASS
	HCH	-5.207	-37.784	-25.207	PASS
11N20 SISO	LCH	-6.246	-37.883	-26.246	PASS
	MCH	-5.68	-37.851	-25.680	PASS
	HCH	-5.563	-38.792	-25.563	PASS
11N40 SISO	LCH	-8.542	-38.680	-28.542	PASS
	MCH	-8.796	-38.529	-28.796	PASS
	HCH	-8.627	-38.862	-28.627	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

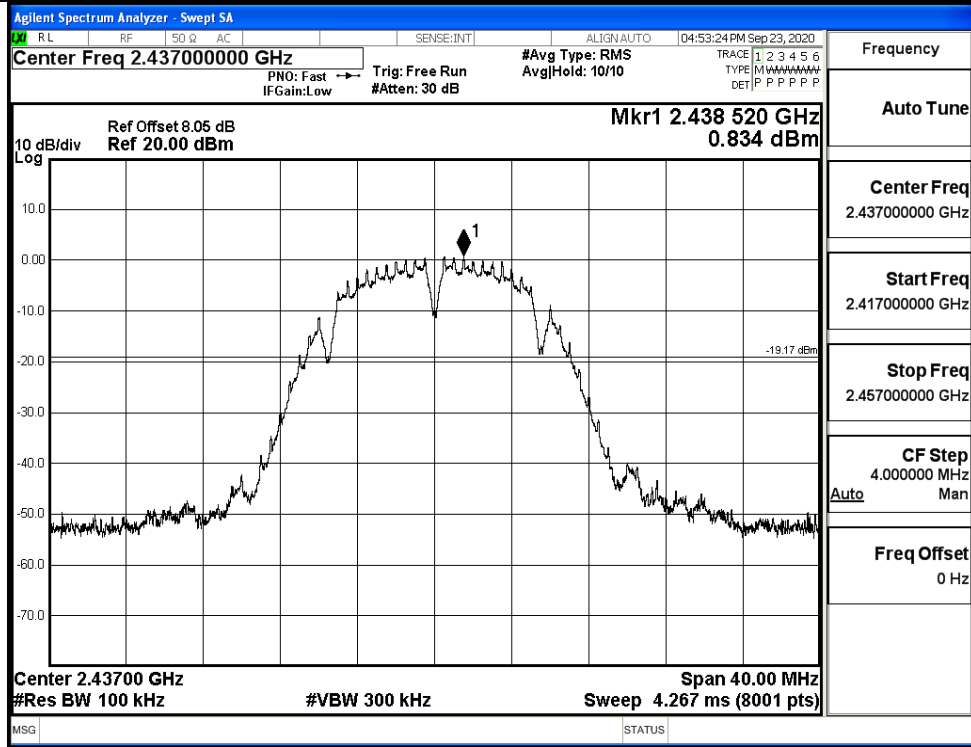


Puw/11B/LCH

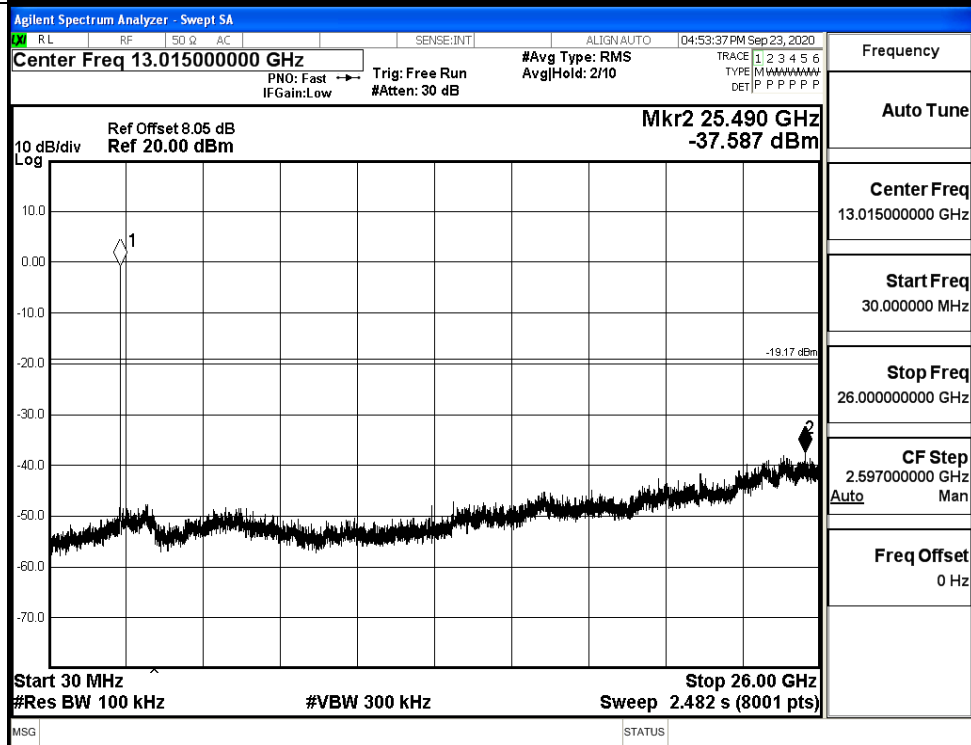


11B\_MCH\_Graphs

Pref/11B/MCH

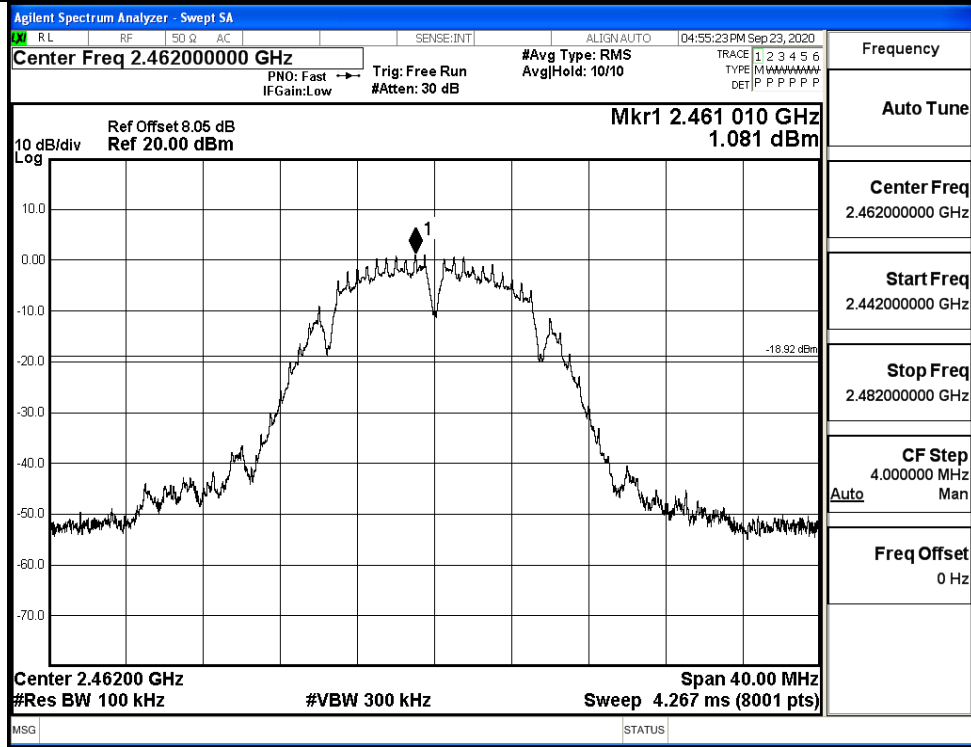


Puw/11B/MCH

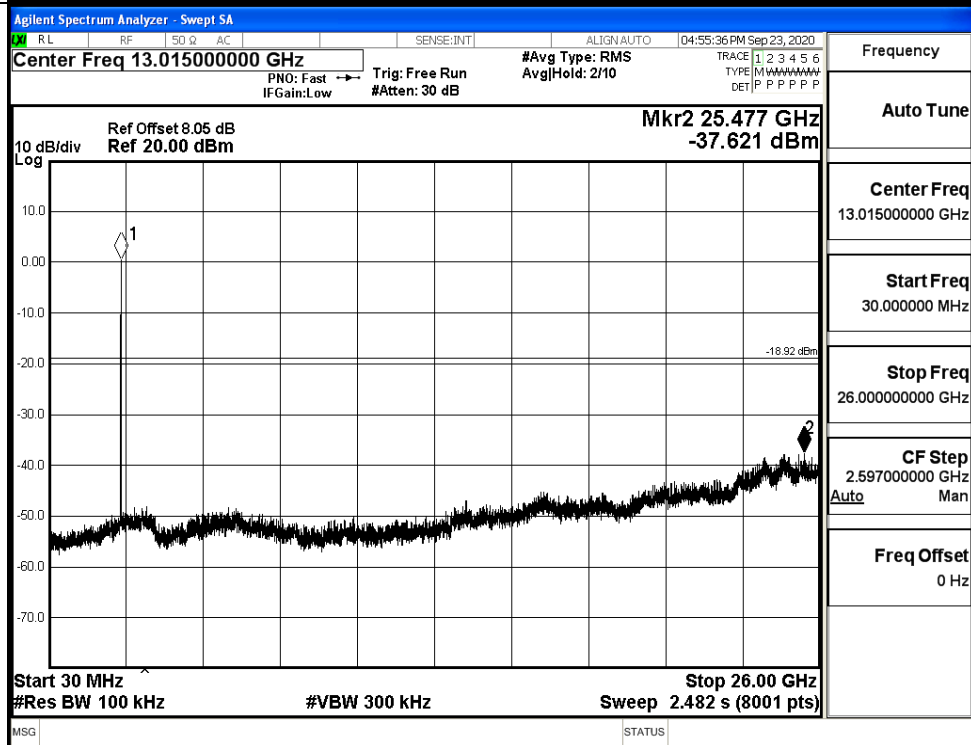


11B\_HCH\_Graphs

Pref/11B/HCH

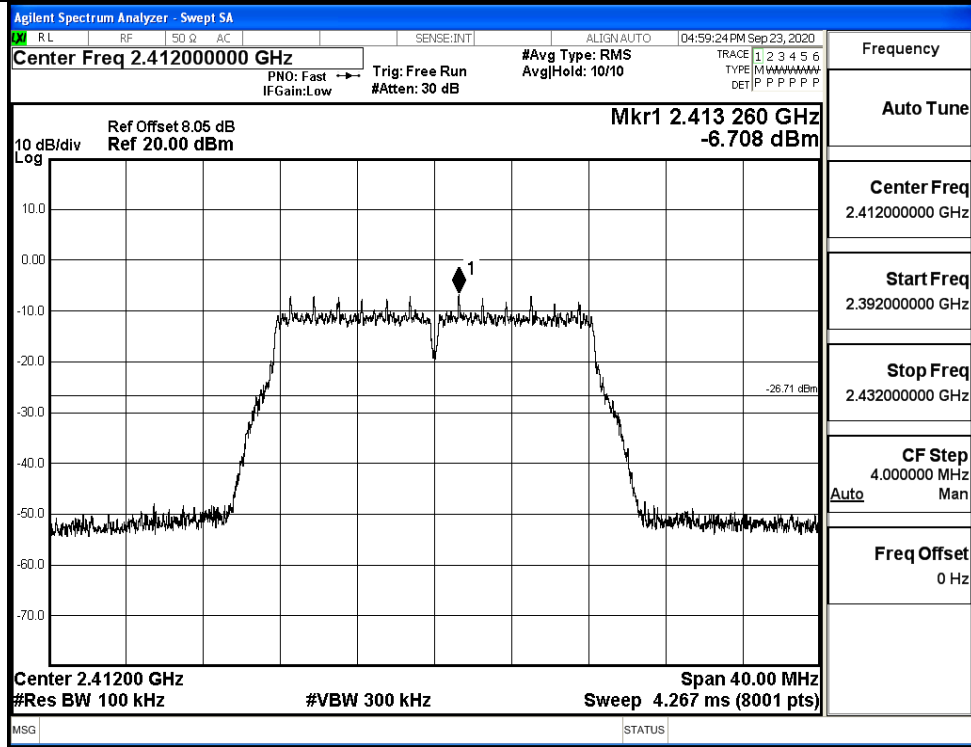


Puw/11B/HCH

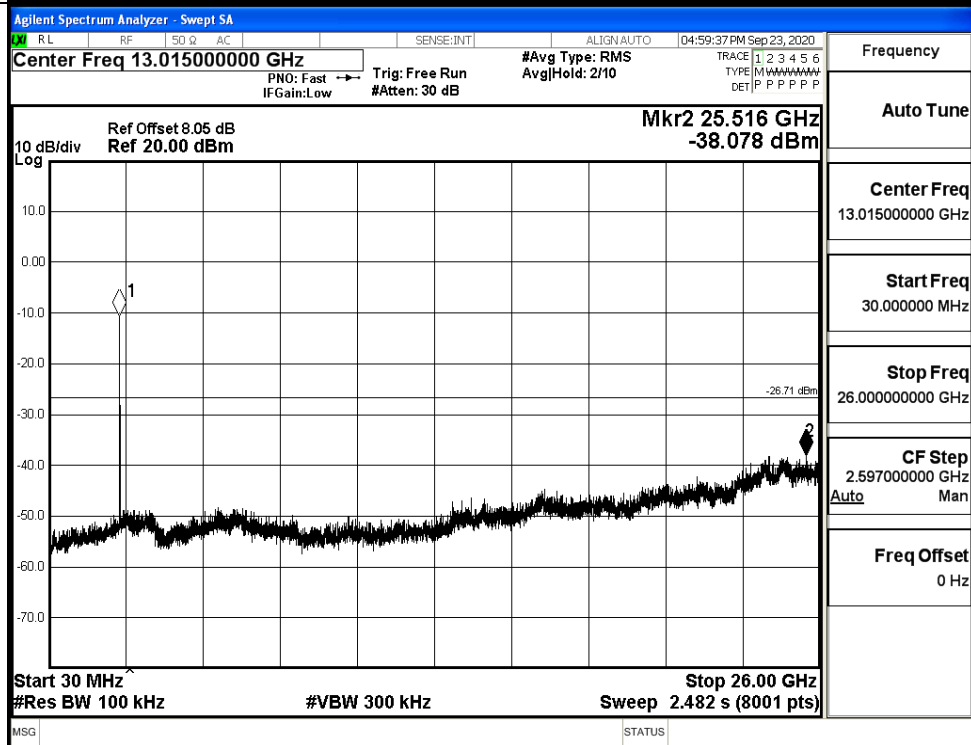


11G\_LCH\_Graphs

Pref/11G/LCH

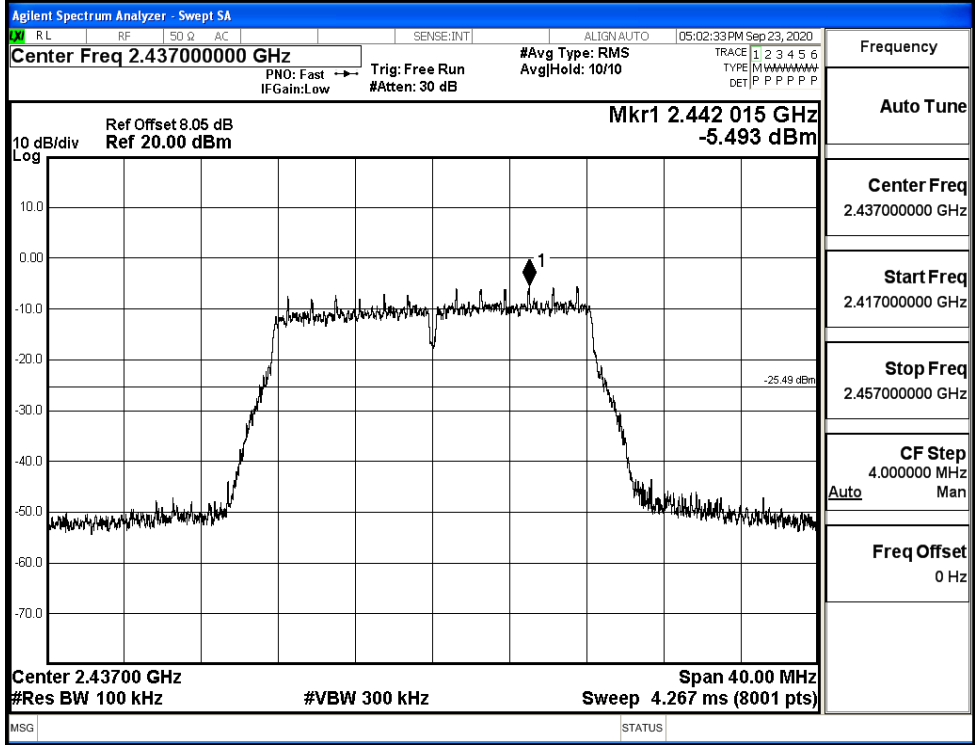


Puw/11G/LCH



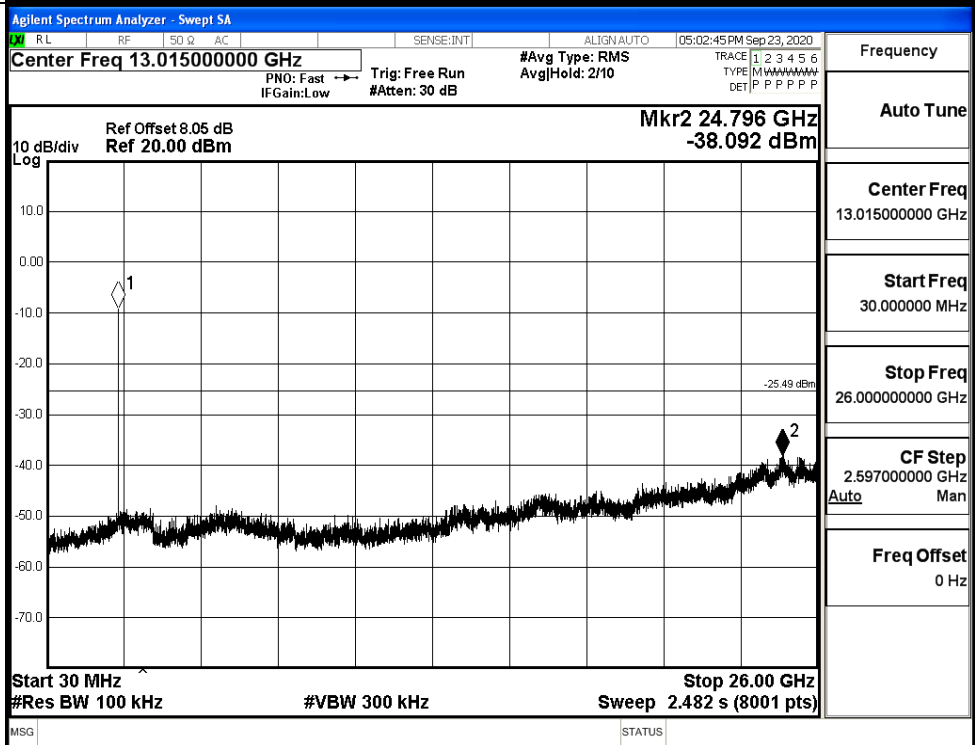
11G\_MCH\_Graphs

Pref/11G/MCH



Frequency	
Auto Tune	
Center Freq	2.437000000 GHz
Start Freq	2.417000000 GHz
Stop Freq	2.457000000 GHz
CF Step	4.000000 MHz
Auto	Man
Freq Offset	0 Hz

Puw/11G/MCH

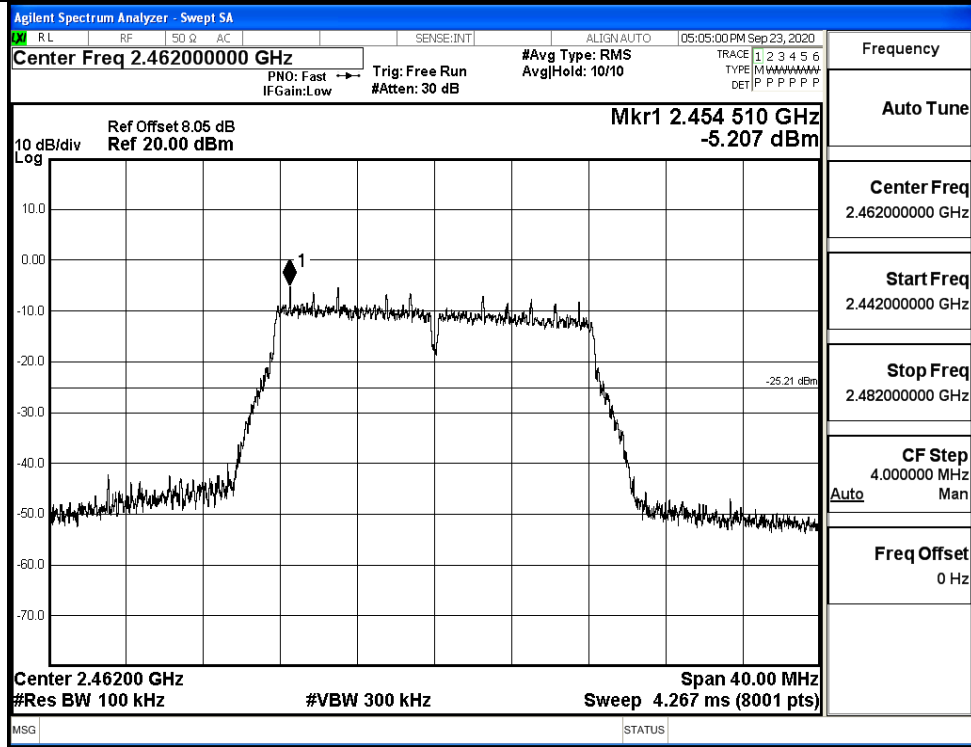


Frequency	
Auto Tune	
Center Freq	13.015000000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.000000000 GHz
CF Step	2.597000000 GHz
Auto	Man
Freq Offset	0 Hz

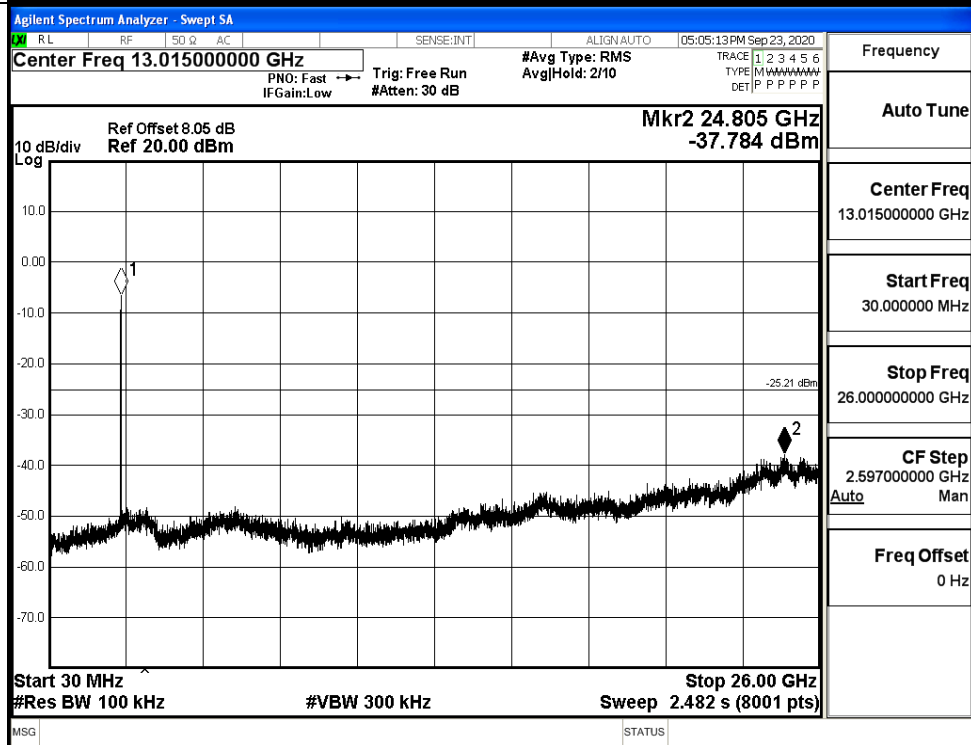


11G\_HCH\_Graphs

Pref/11G/HCH

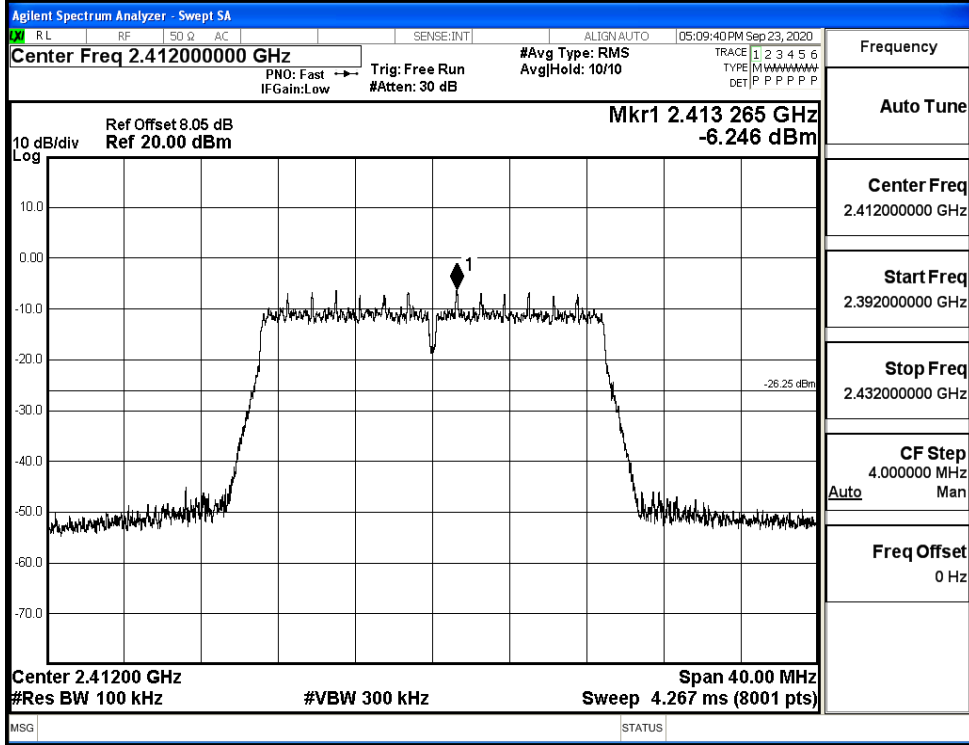


Puw/11G/HCH

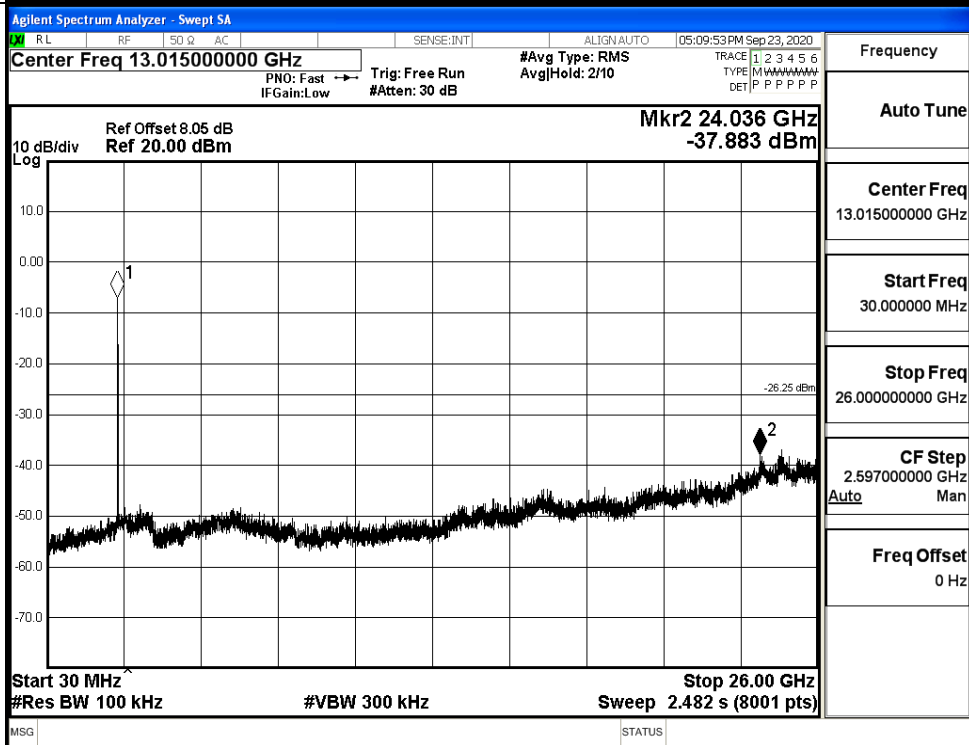


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

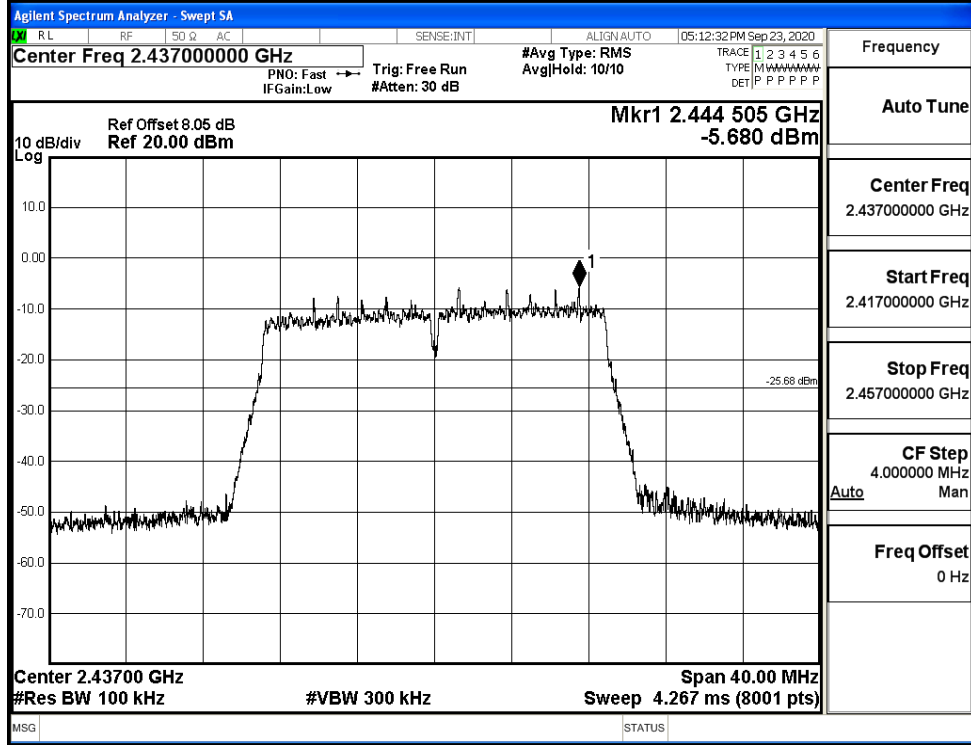


Puw/11N20  
SISO/LCH

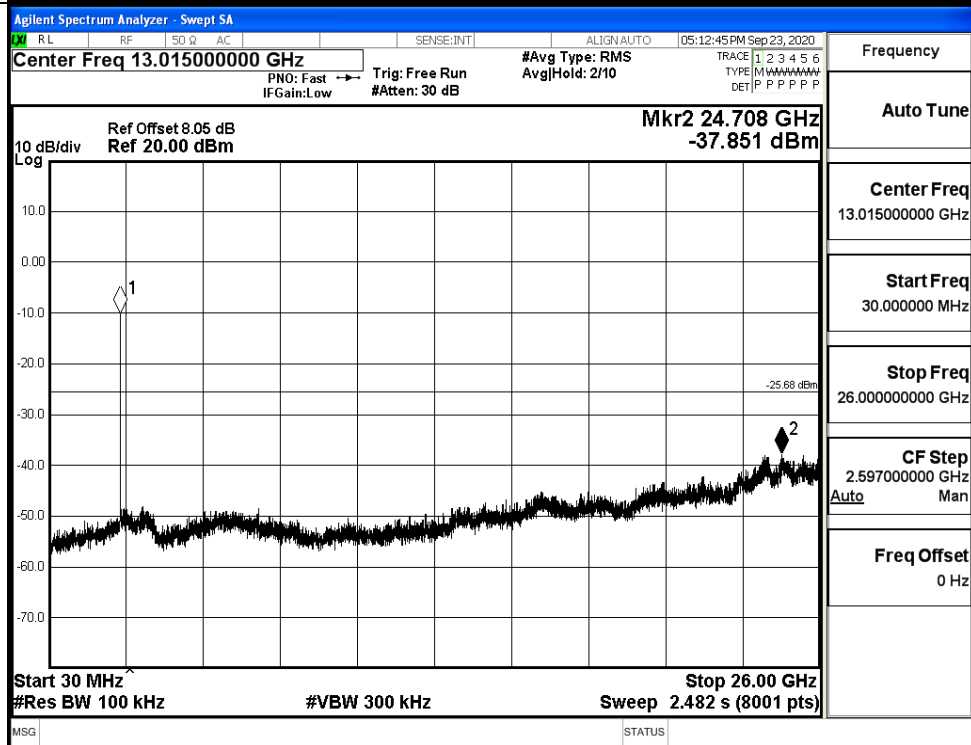


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

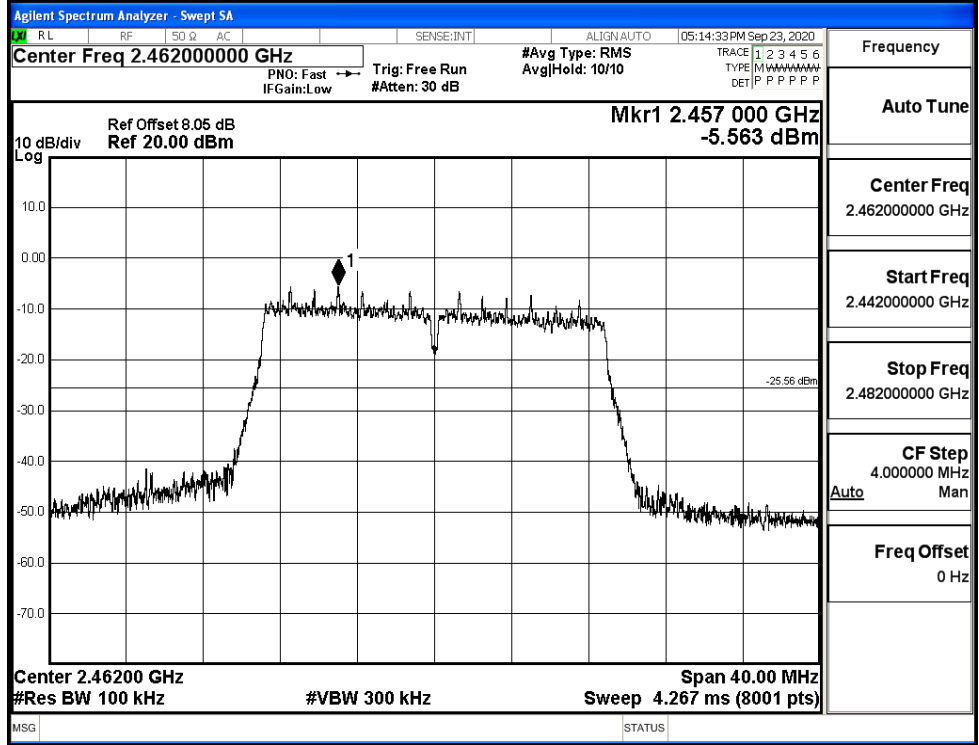


Puw/11N20  
SISO/MCH

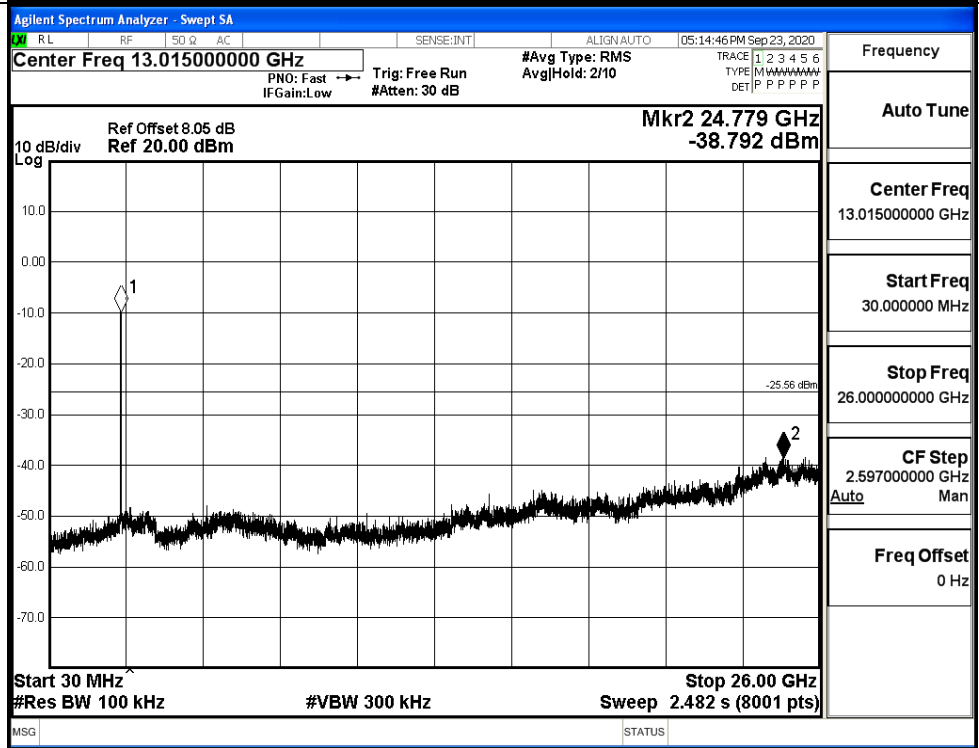


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

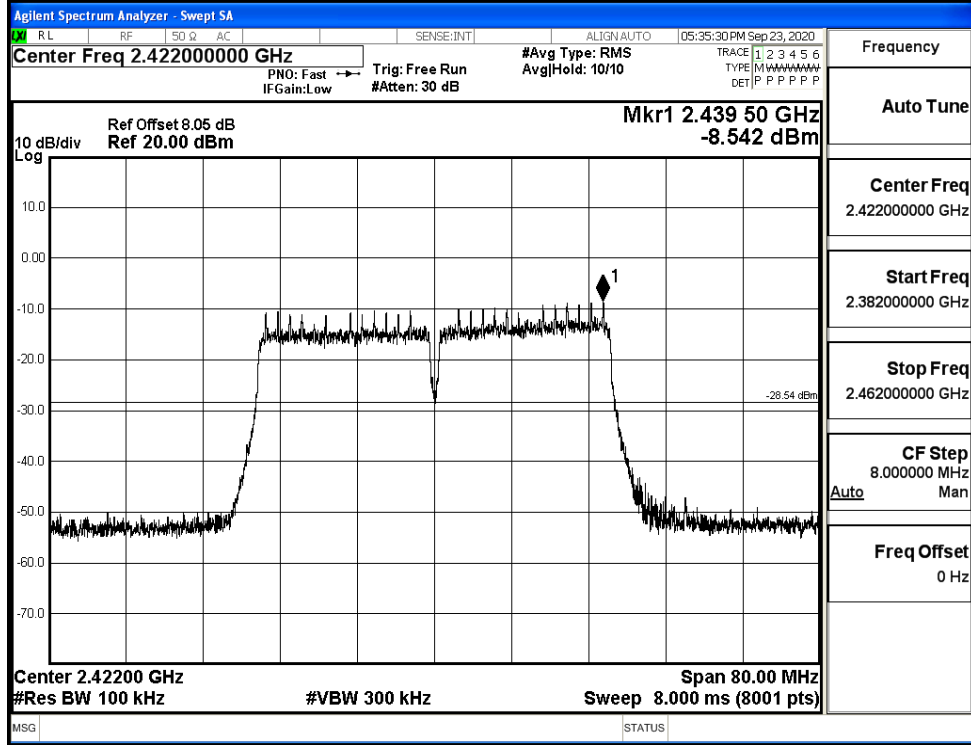


Puw/11N20  
SISO/HCH

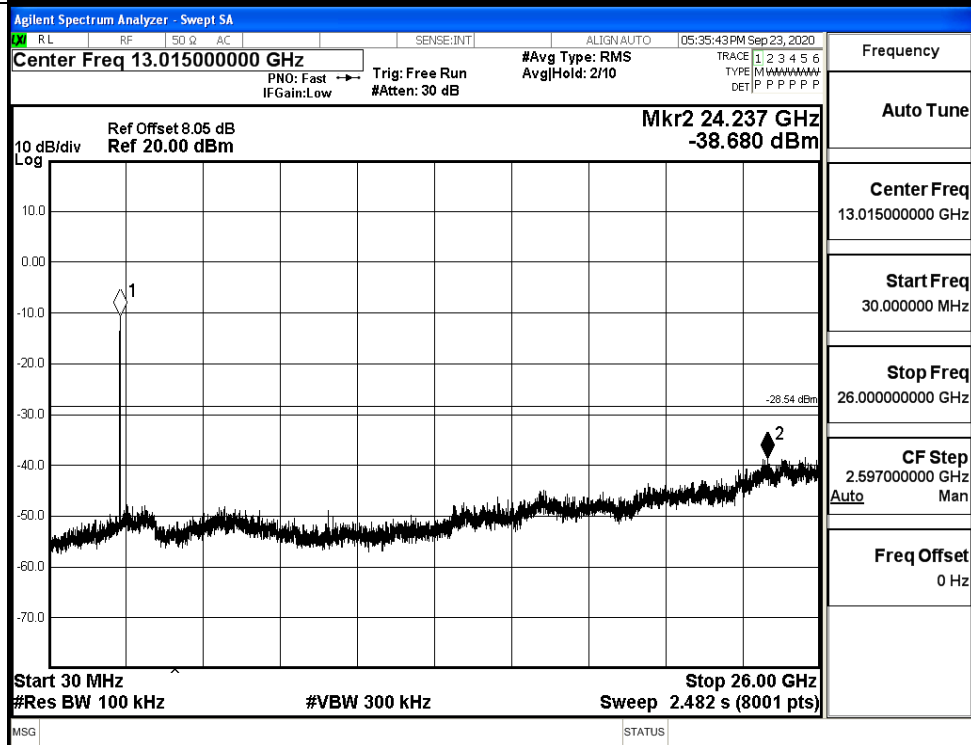


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

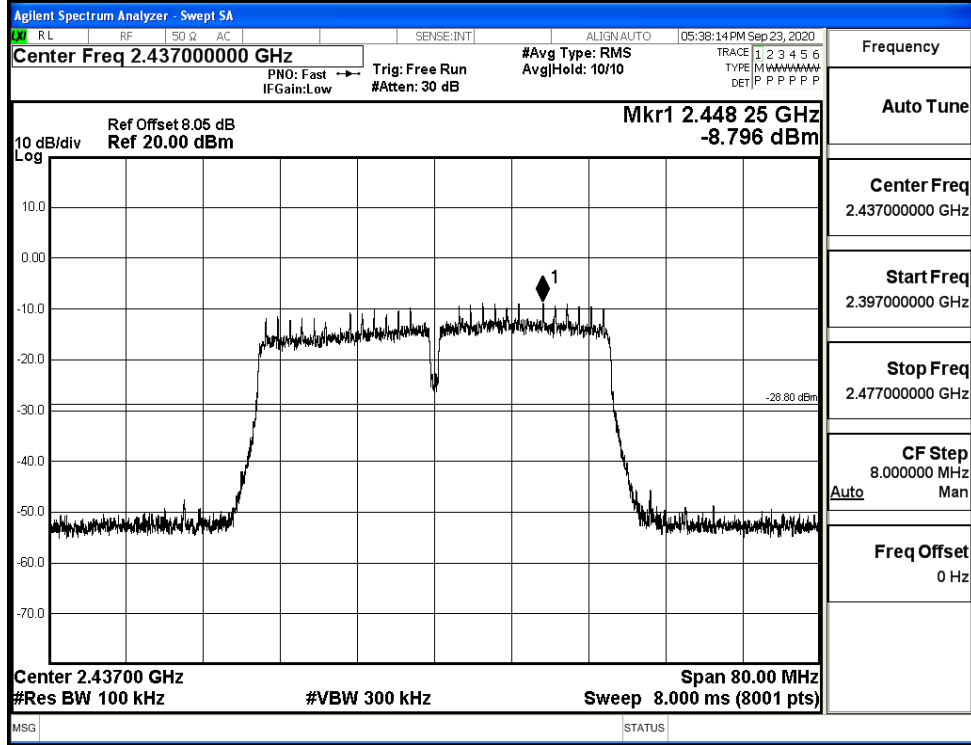


Puw/11N40  
SISO/LCH

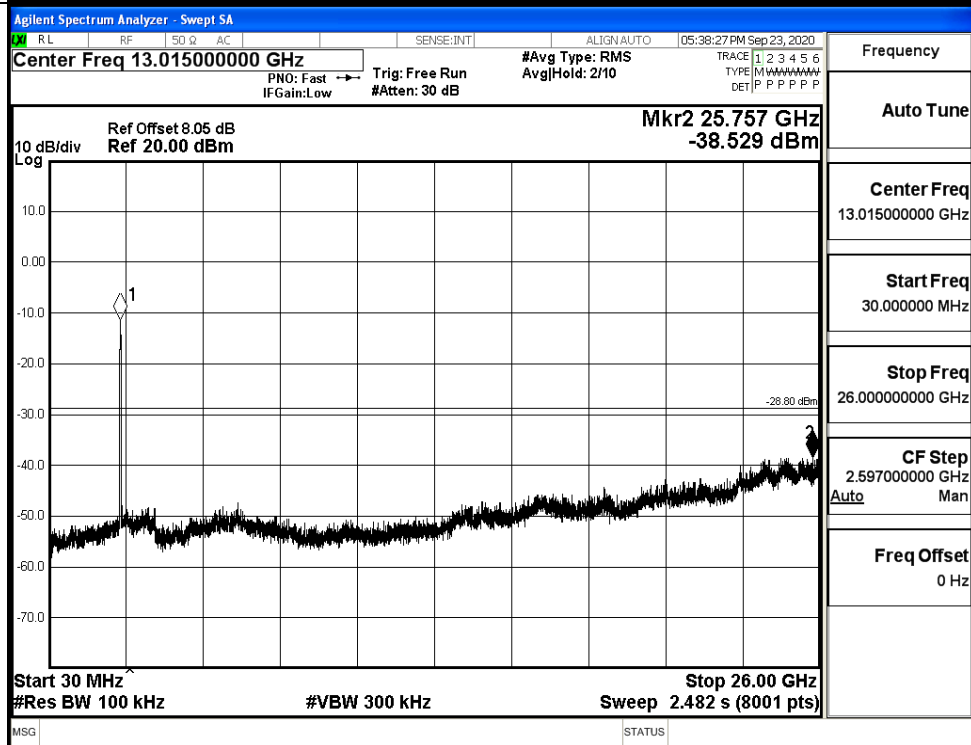


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

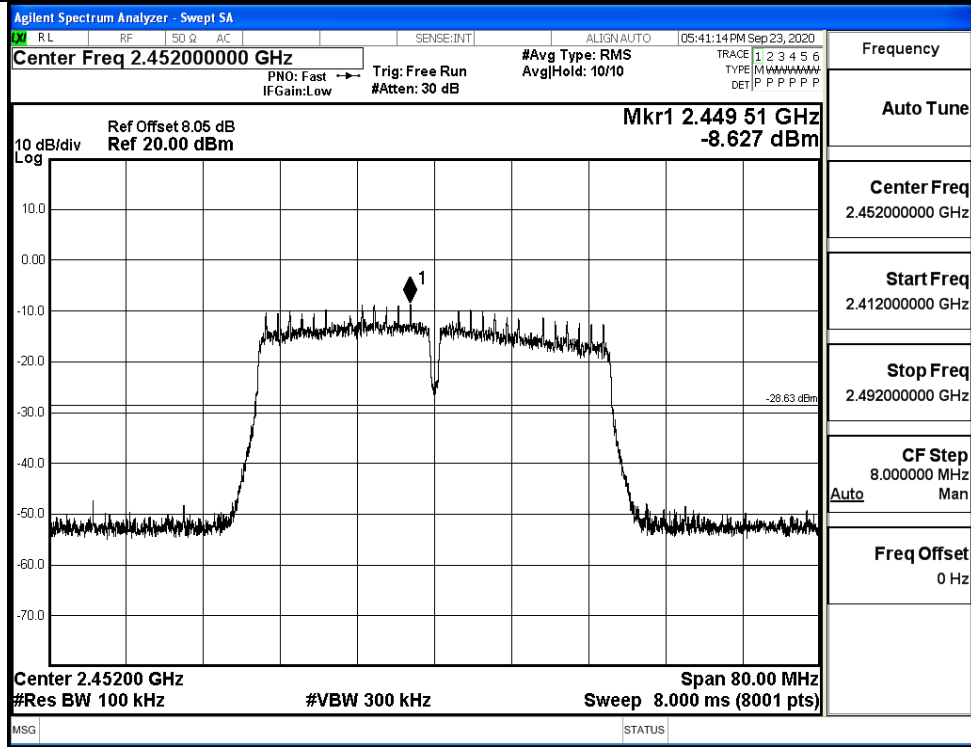


Puw/11N40  
SISO/MCH

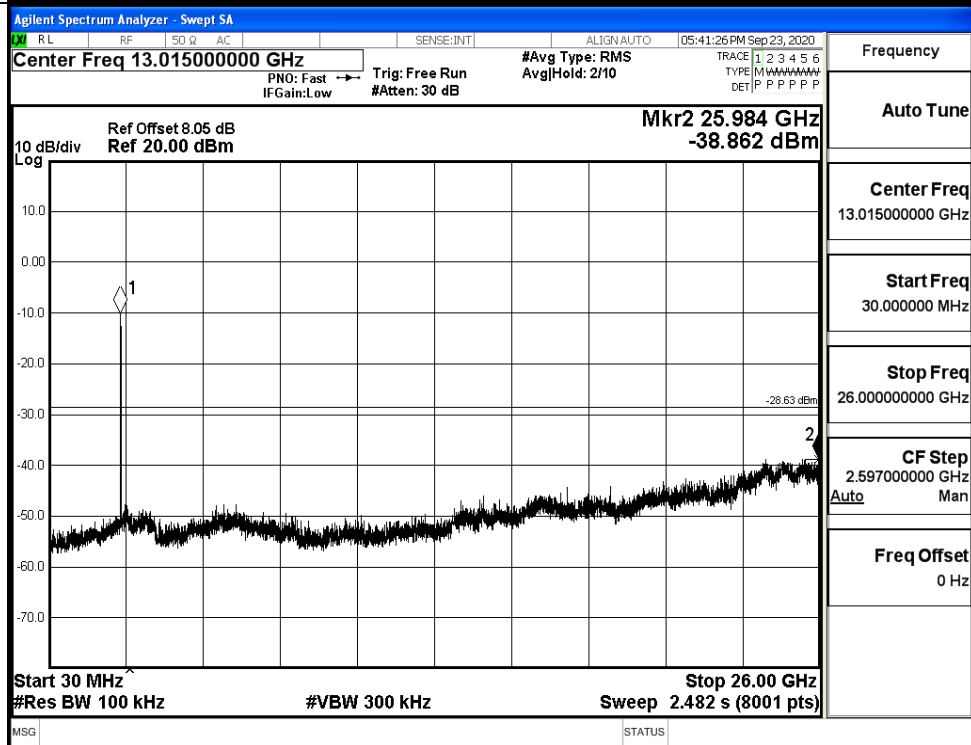


11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH

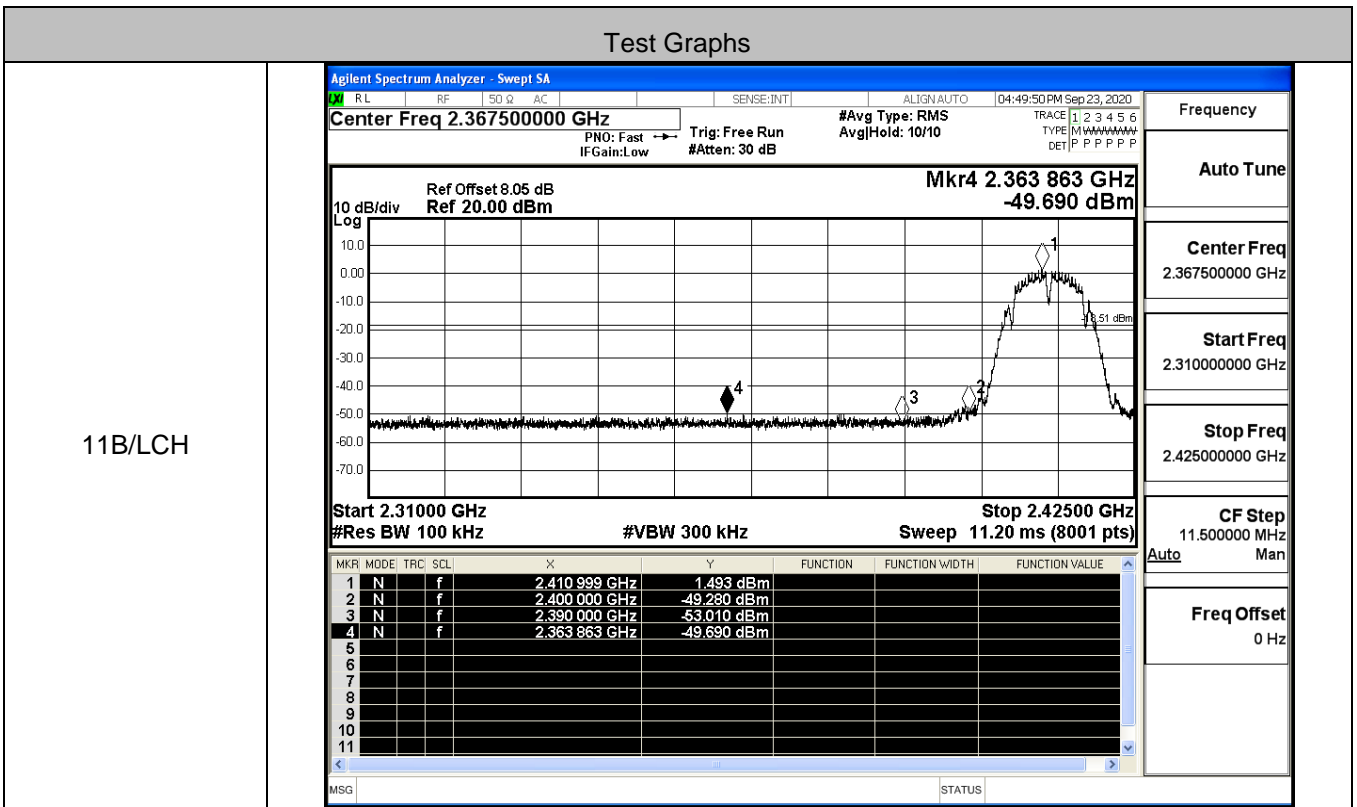


Puw/11N40  
SISO/HCH



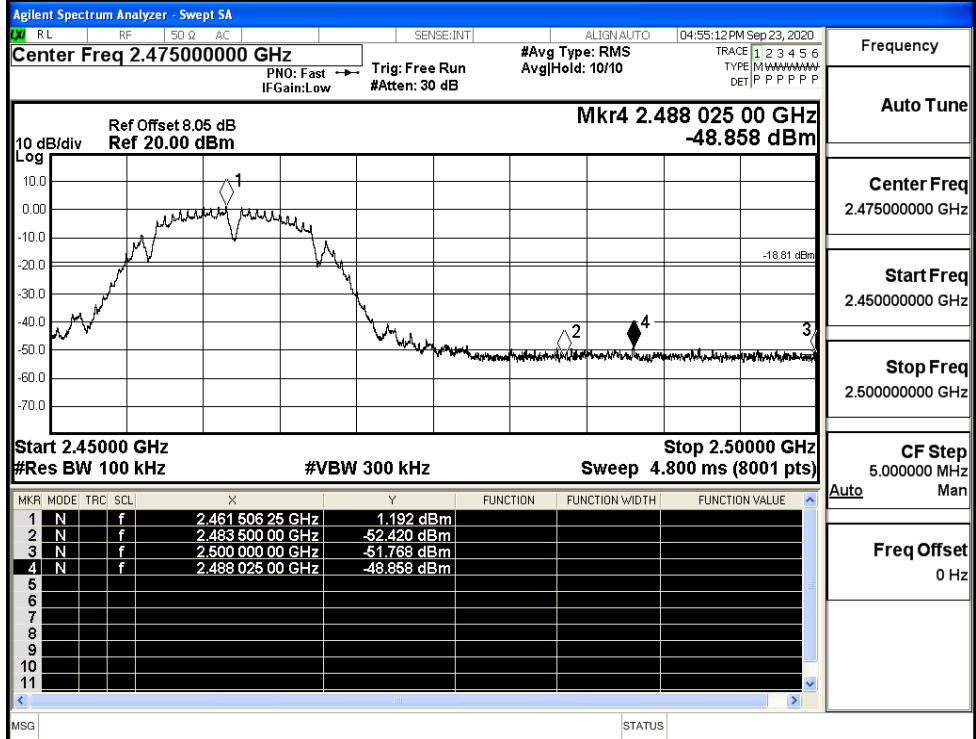
### C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.493	-49.690	-18.51	PASS
	HCH	1.192	-48.858	-18.81	PASS
11G	LCH	-6.731	-50.279	-26.73	PASS
	HCH	-5.446	-47.746	-25.45	PASS
11N20SISO	LCH	-6.527	-49.655	-26.53	PASS
	HCH	-5.347	-48.404	-25.35	PASS
11N40SISO	LCH	-8.531	-49.945	-28.53	PASS
	HCH	-8.505	-49.406	-28.51	PASS





11B/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

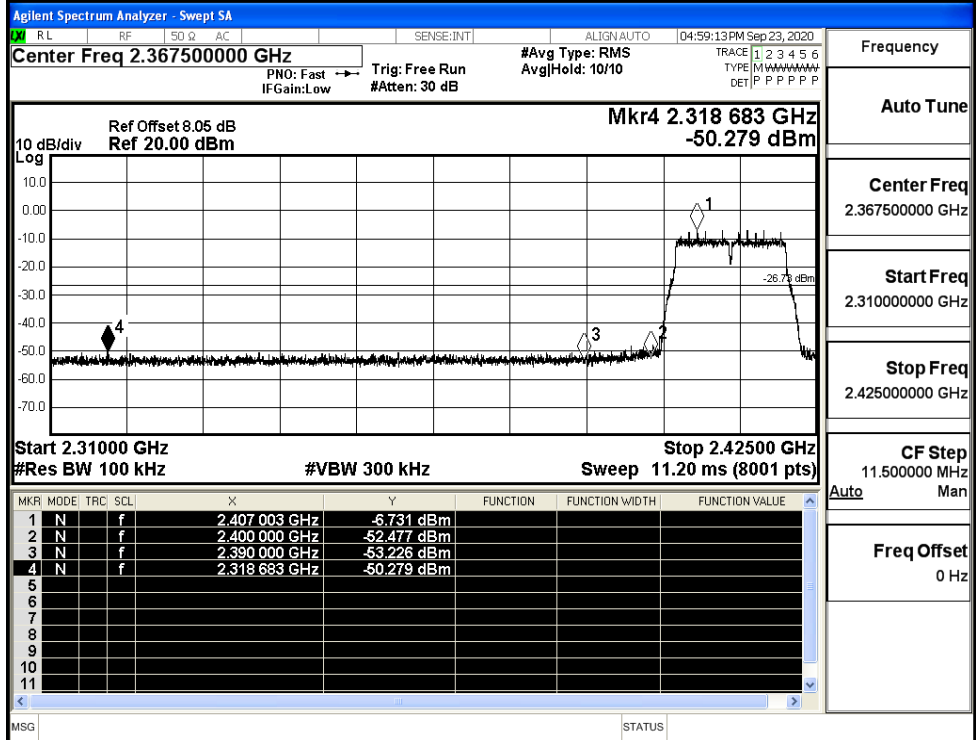
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq  
2.36750000 GHz

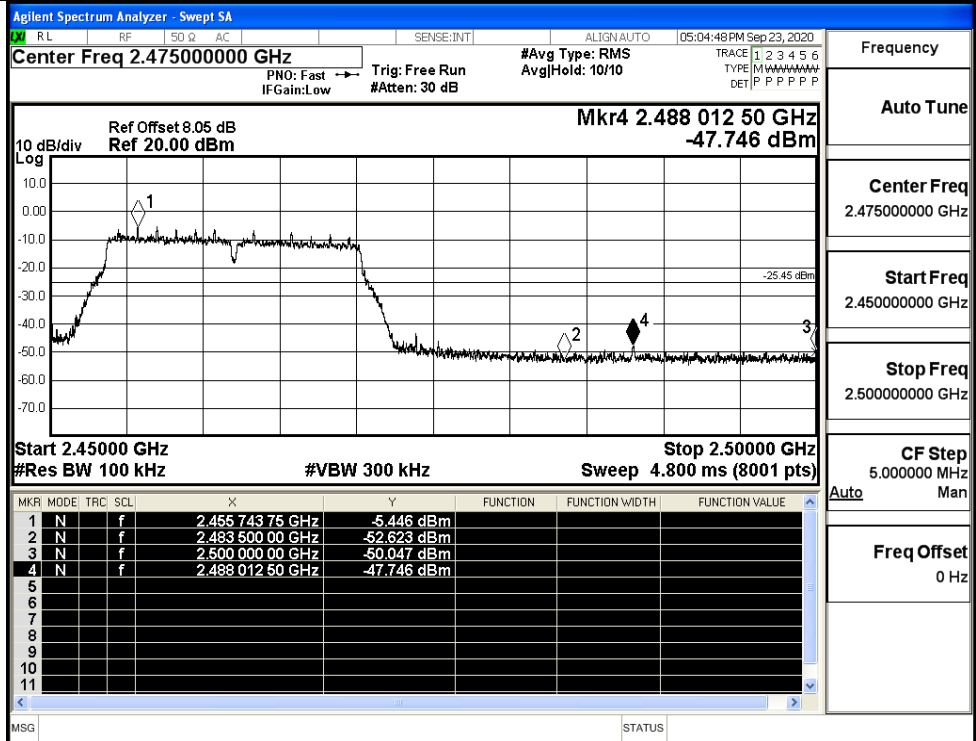
Start Freq  
2.31000000 GHz

Stop Freq  
2.42500000 GHz

CF Step  
11.500000 MHz

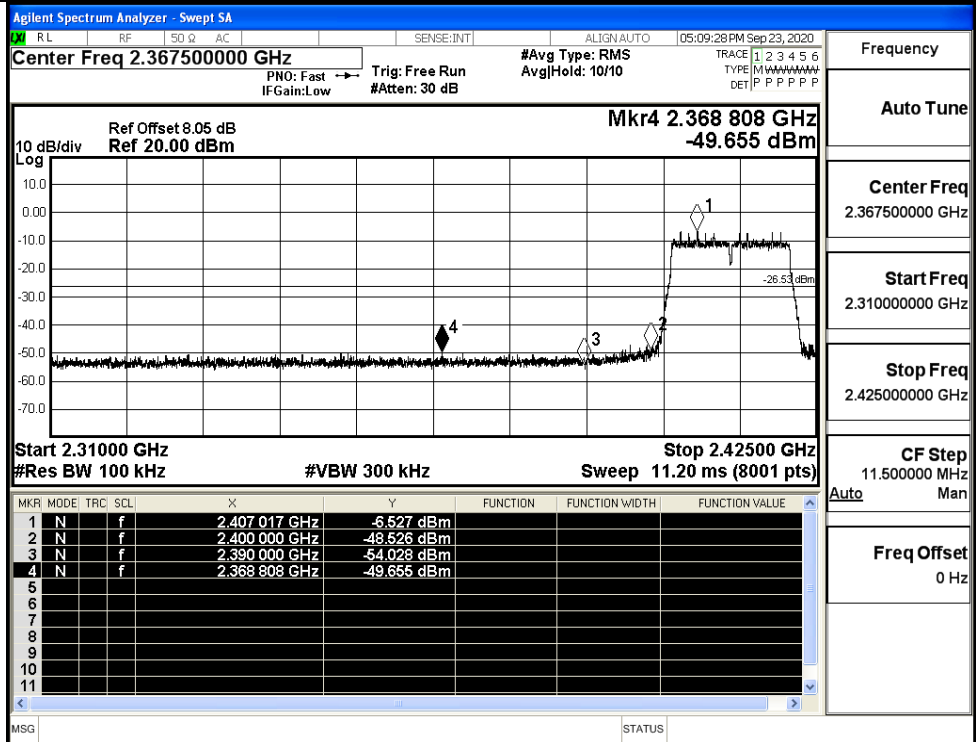
Freq Offset  
0 Hz

11G/HCH



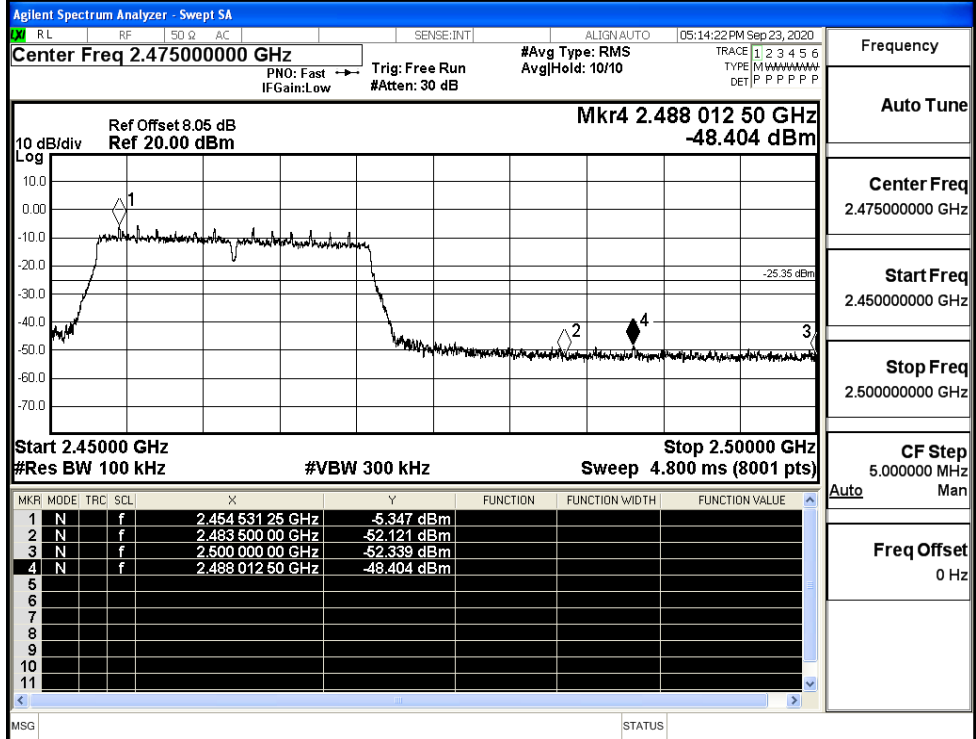
Frequency	
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



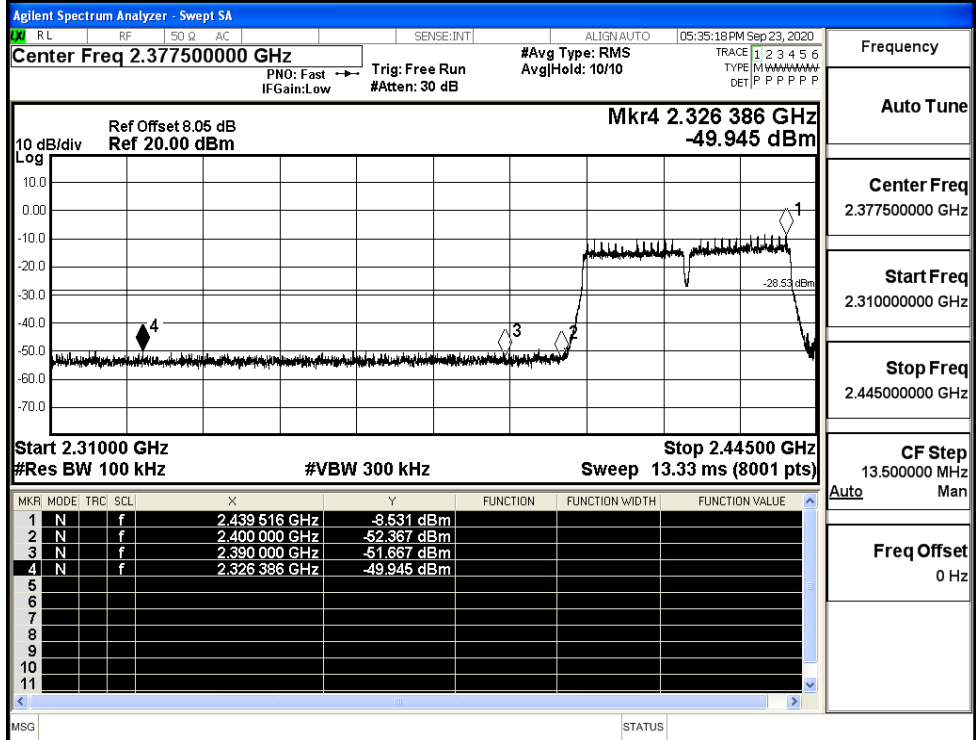
Frequency	
Auto Tune	
Center Freq	2.367500000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.425000000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11N20SISO/HCH



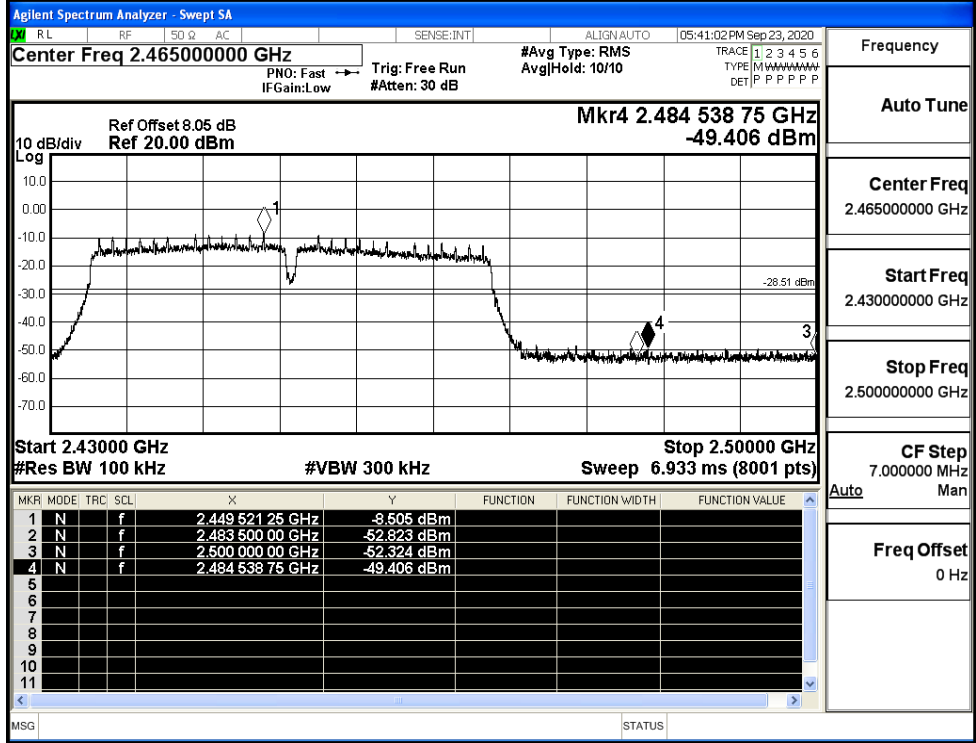
Frequency	2.475000000 GHz
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N40SISO/LCH



Frequency	2.377500000 GHz
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



Frequency

Auto Tune

Center Freq  
2.46500000 GHz

Start Freq  
2.43000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
7.000000 MHz

Auto Man

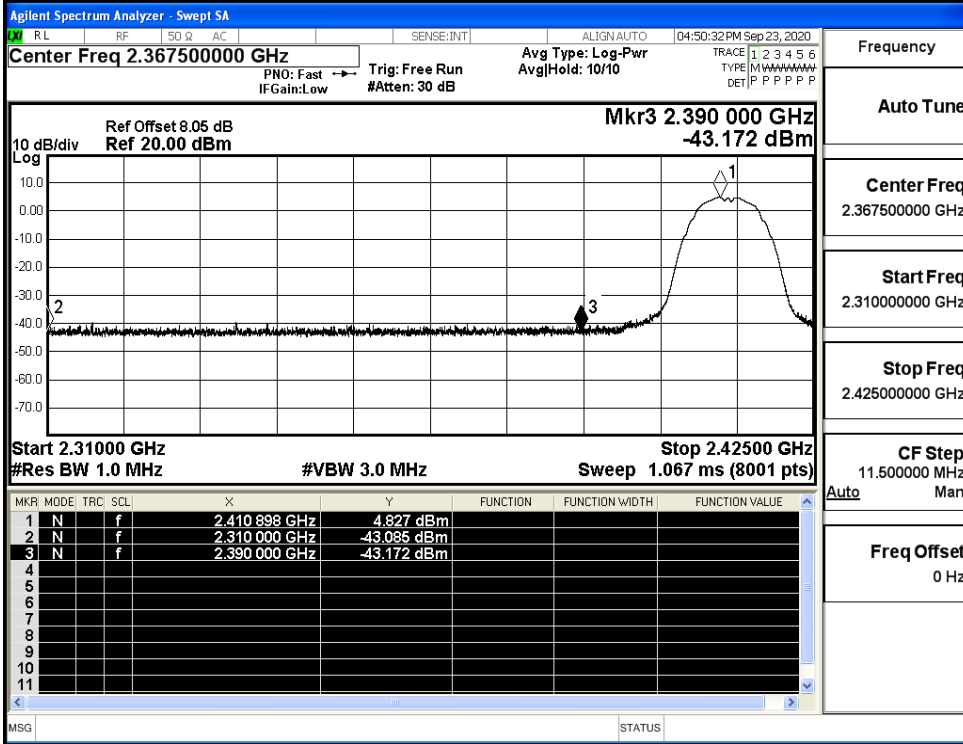
Freq Offset  
0 Hz

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

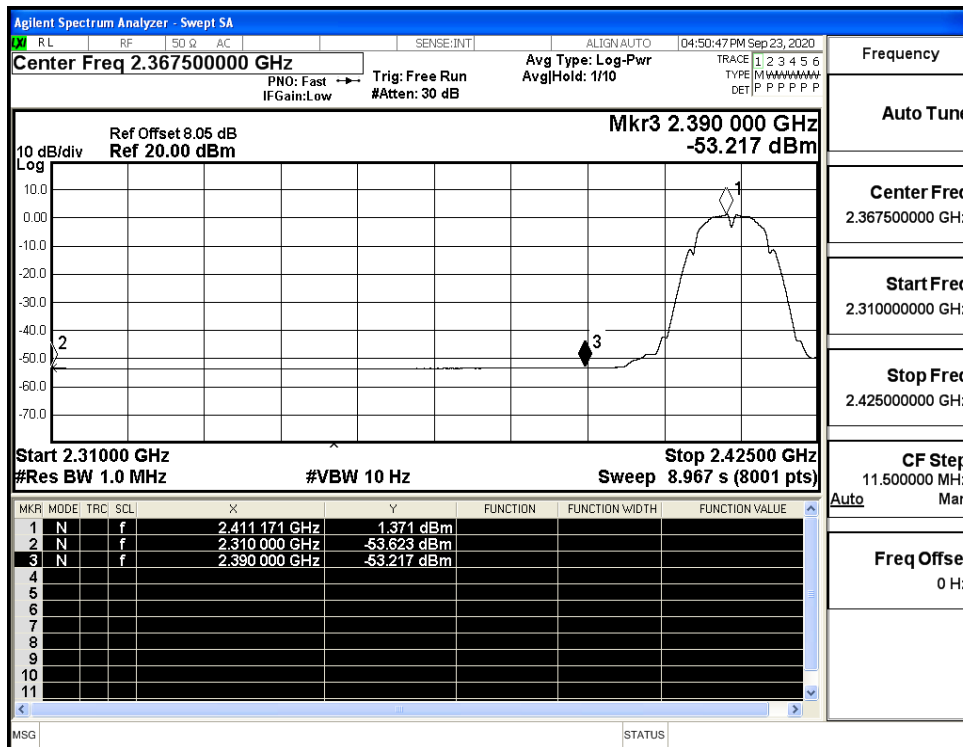
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.09	2.0	0	54.17	PEAK	74	PASS
	2412	Ant1	2310.0	-53.62	2.0	0	43.64	AV	54	PASS
	2412	Ant1	2390.0	-43.17	2.0	0	54.09	PEAK	74	PASS
	2412	Ant1	2390.0	-53.22	2.0	0	44.04	AV	54	PASS
	2462	Ant1	2483.5	-40.13	2.0	0	57.13	PEAK	74	PASS
	2462	Ant1	2483.5	-52.52	2.0	0	44.74	AV	54	PASS
	2462	Ant1	2500.0	-40.86	2.0	0	56.40	PEAK	74	PASS
	2462	Ant1	2500.0	-52.63	2.0	0	44.63	AV	54	PASS
11G	2412	Ant1	2310.0	-41.78	2.0	0	55.48	PEAK	74	PASS
	2412	Ant1	2310.0	-53.65	2.0	0	43.61	AV	54	PASS
	2412	Ant1	2390.0	-42.33	2.0	0	54.93	PEAK	74	PASS
	2412	Ant1	2390.0	-53.27	2.0	0	43.99	AV	54	PASS
	2462	Ant1	2483.5	-41.86	2.0	0	55.40	PEAK	74	PASS
	2462	Ant1	2483.5	-52.35	2.0	0	44.91	AV	54	PASS
	2462	Ant1	2500.0	-42.78	2.0	0	54.48	PEAK	74	PASS
	2462	Ant1	2500.0	-52.68	2.0	0	44.58	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.01	2.0	0	53.25	PEAK	74	PASS
	2412	Ant1	2310.0	-53.66	2.0	0	43.6	AV	54	PASS
	2412	Ant1	2390.0	-42.82	2.0	0	54.44	PEAK	74	PASS
	2412	Ant1	2390.0	-53.21	2.0	0	44.05	AV	54	PASS
	2462	Ant1	2483.5	-41.42	2.0	0	55.84	PEAK	74	PASS
	2462	Ant1	2483.5	-52.24	2.0	0	45.02	AV	54	PASS
	2462	Ant1	2500.0	-41.74	2.0	0	55.52	PEAK	74	PASS
	2462	Ant1	2500.0	-52.69	2.0	0	44.57	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-41.78	2.0	0	55.48	PEAK	74	PASS
	2422	Ant1	2310.0	-53.66	2.0	0	43.60	AV	54	PASS

	2422	Ant1	2390.0	-43.49	2.0	0	53.77	PEAK	74	PASS
	2422	Ant1	2390.0	-53.24	2.0	0	44.02	AV	54	PASS
	2452	Ant1	2483.5	-41.35	2.0	0	55.91	PEAK	74	PASS
	2452	Ant1	2483.5	-52.56	2.0	0	44.70	AV	54	PASS
	2452	Ant1	2500.0	-42.86	2.0	0	54.40	PEAK	74	PASS
	2452	Ant1	2500.0	-52.70	2.0	0	44.56	AV	54	PASS

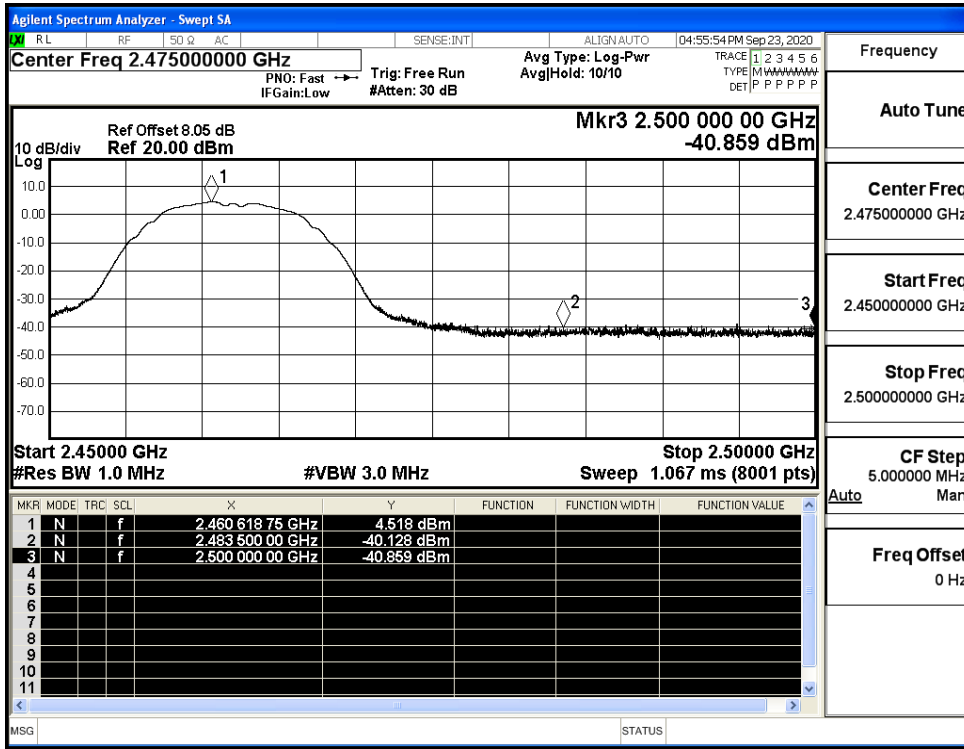
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



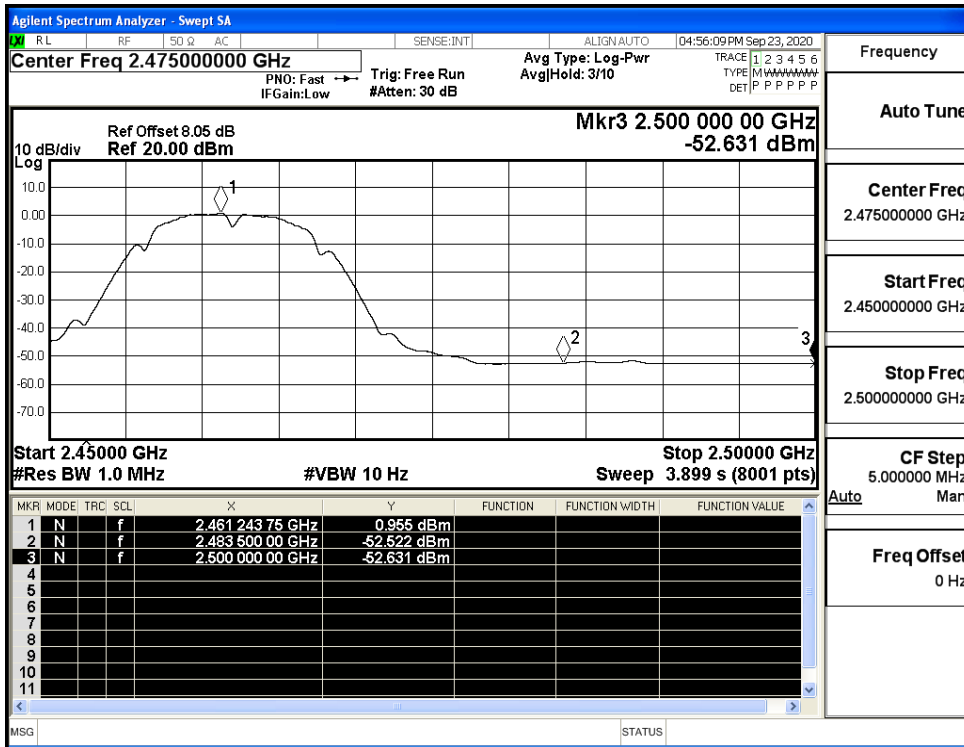
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



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

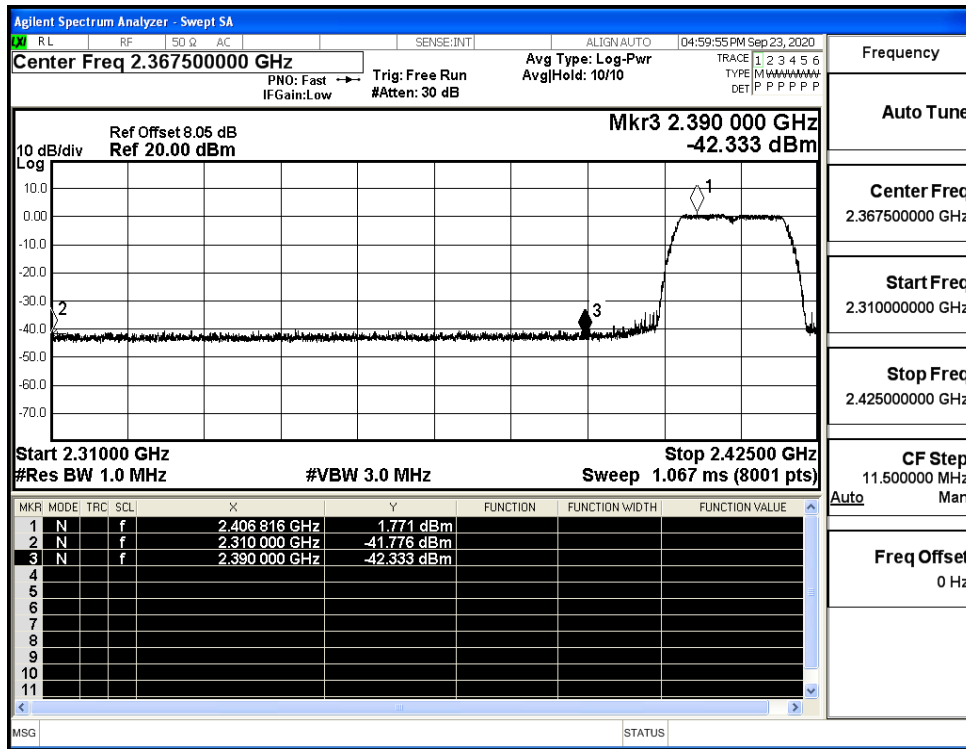


Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV

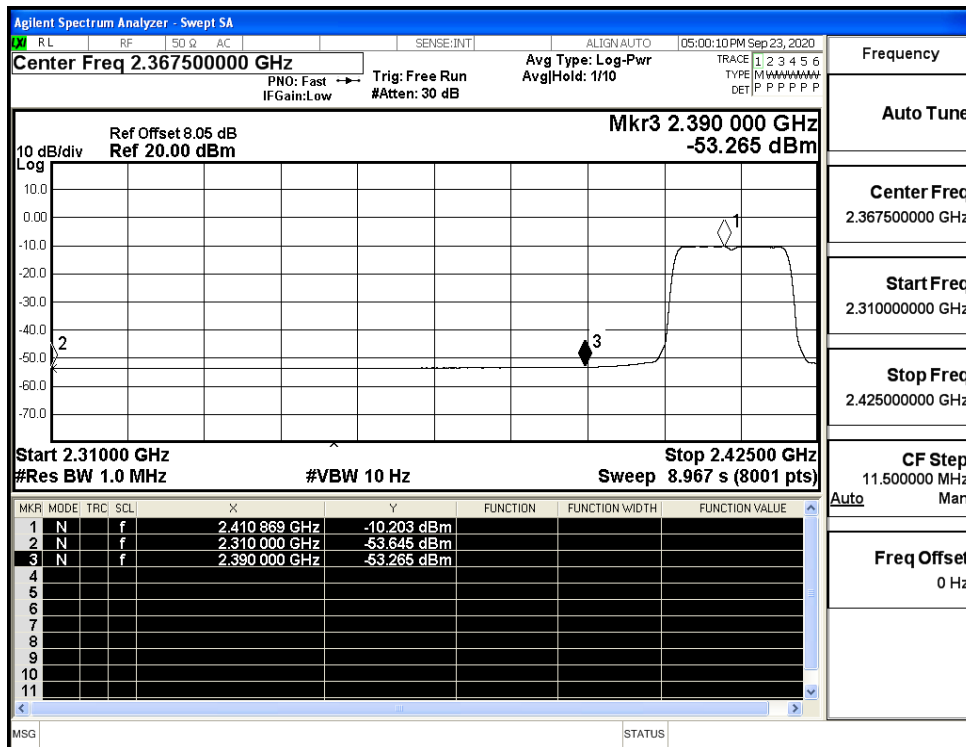




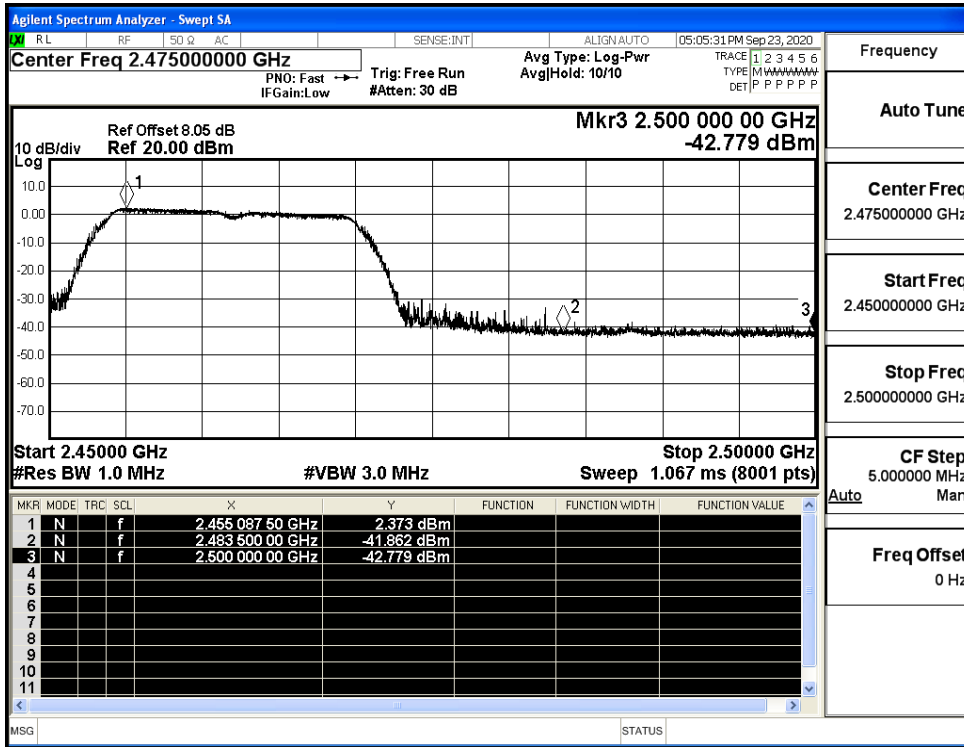
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



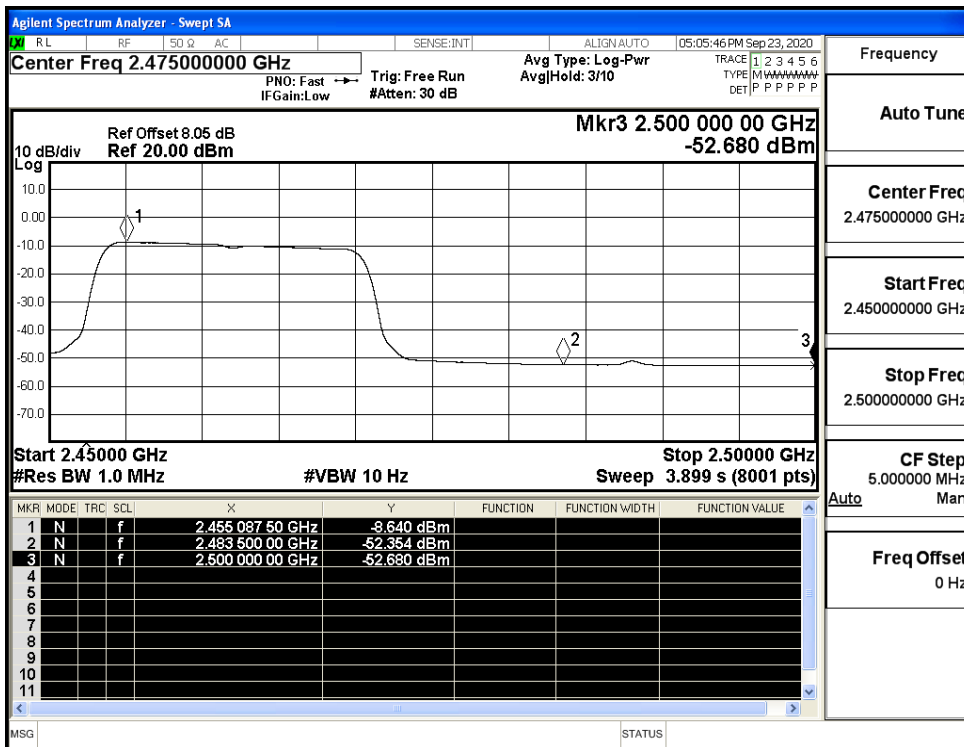
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



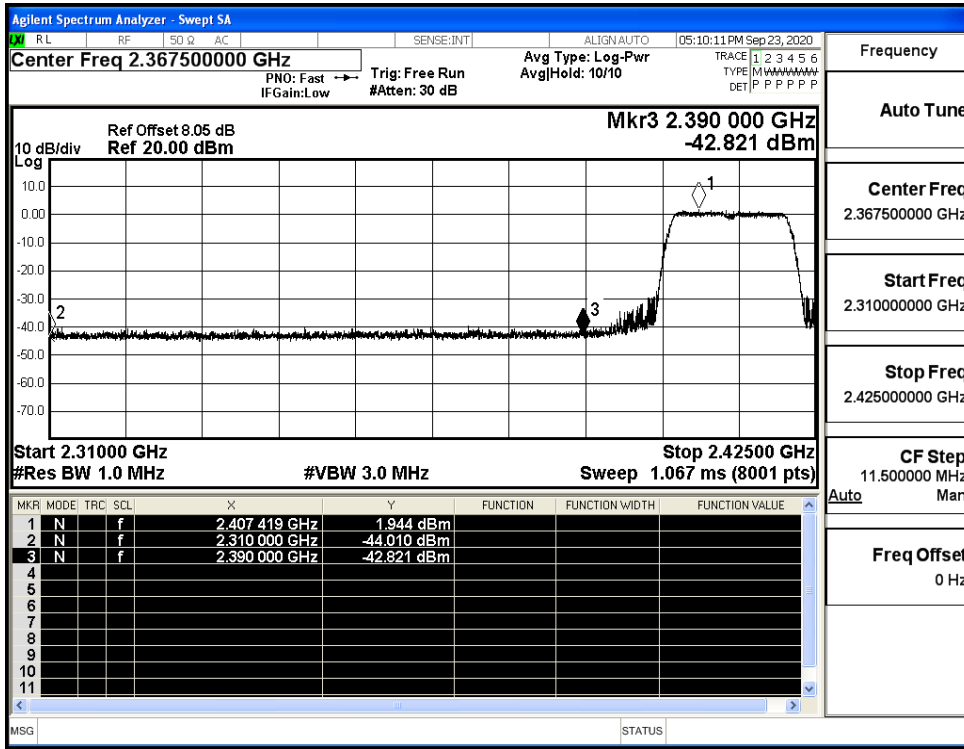
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



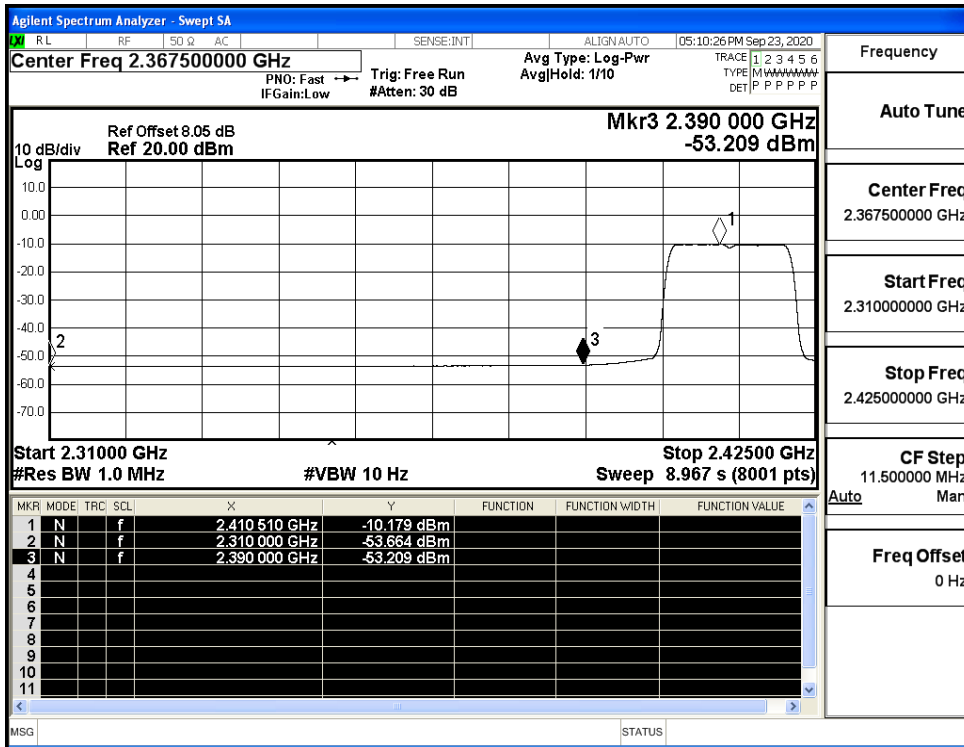
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



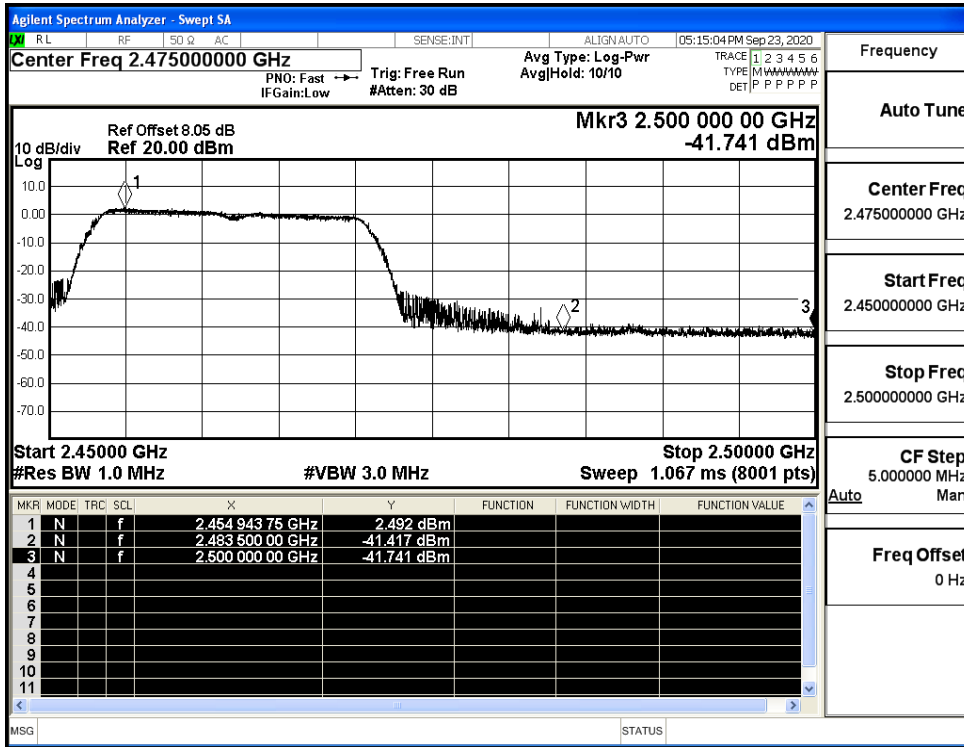
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



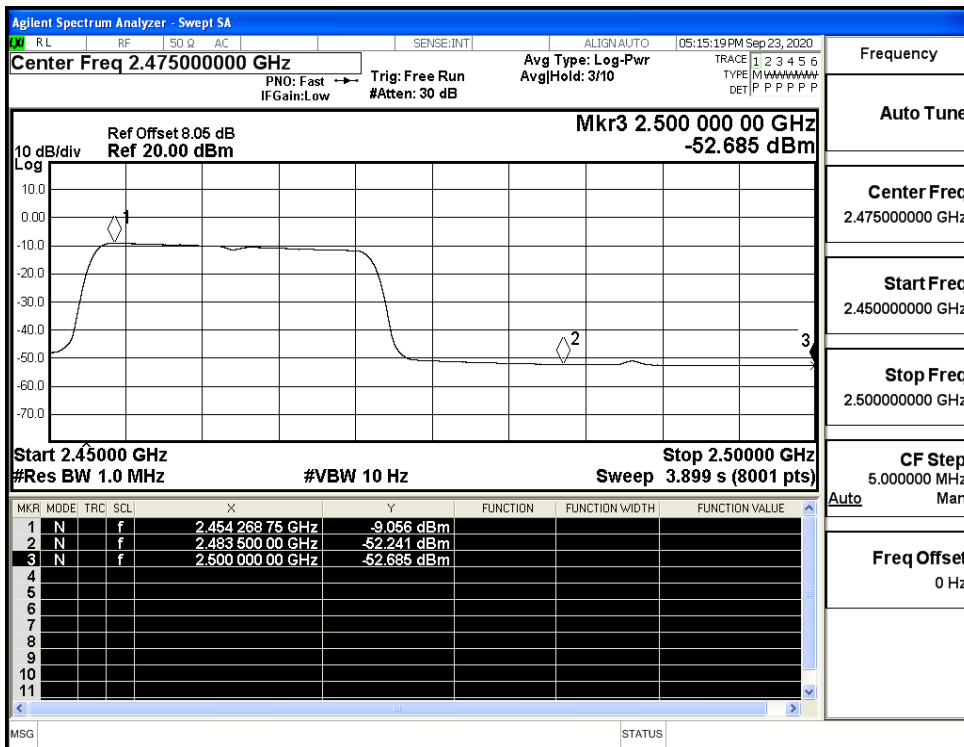
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



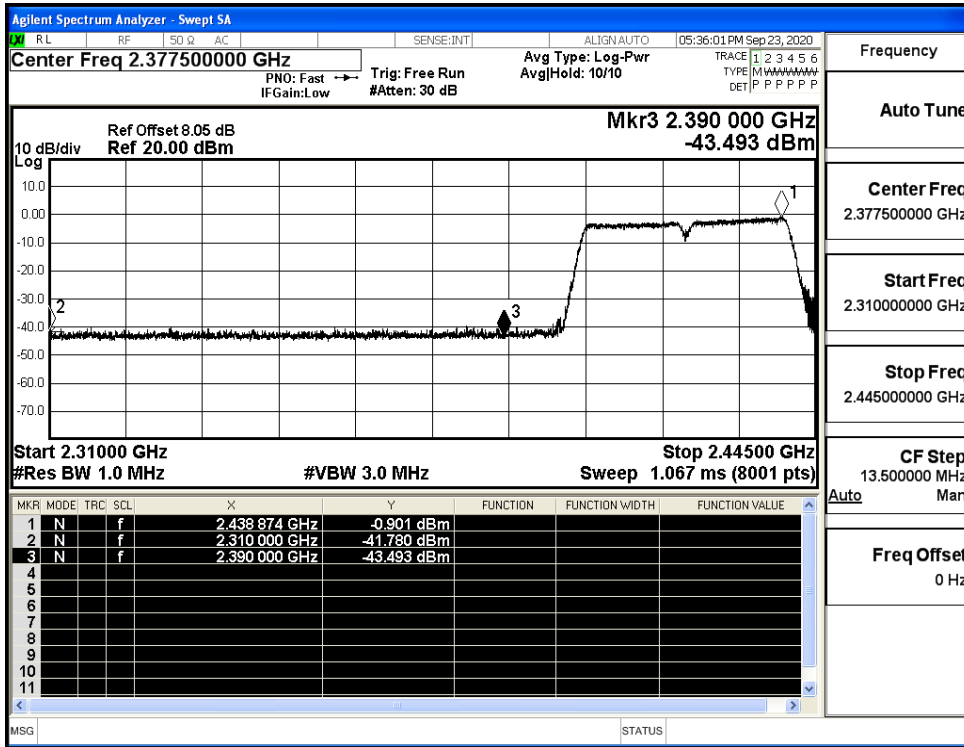
Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



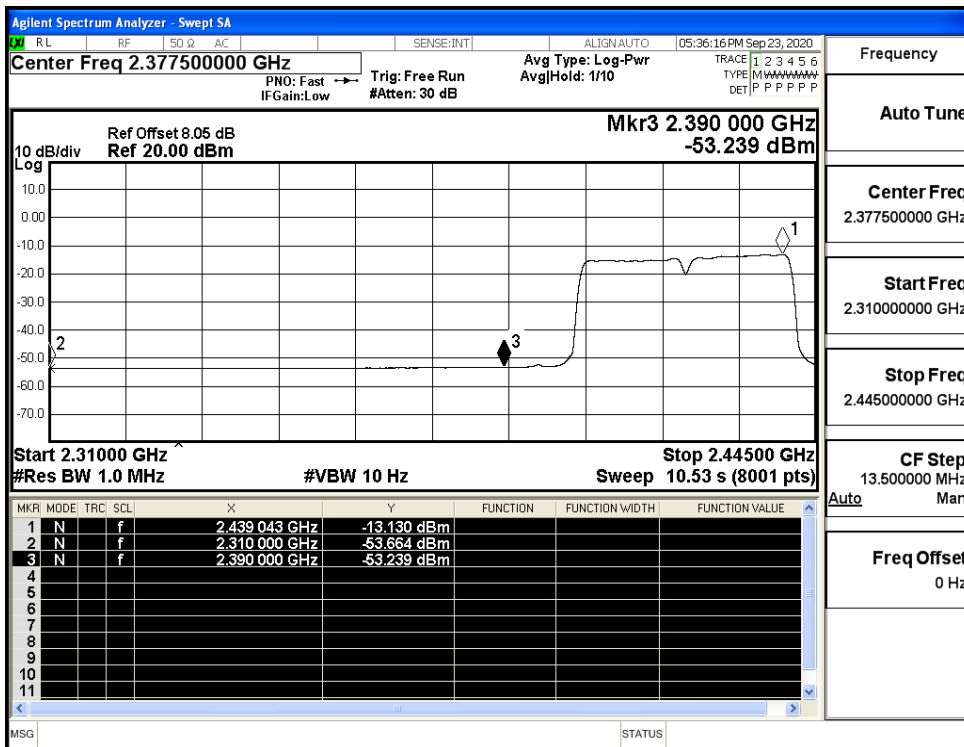
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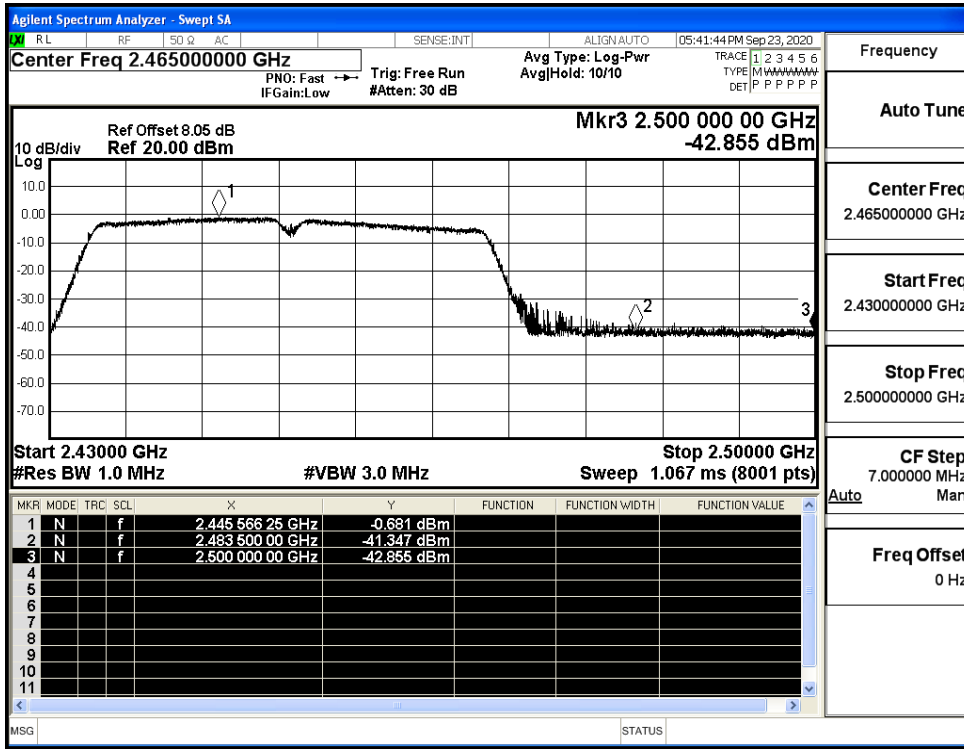
Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



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

