

## Appendix C

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

Product Name: Tablet  
Trade Mark: LAVA & XOLO  
Test Model: T71

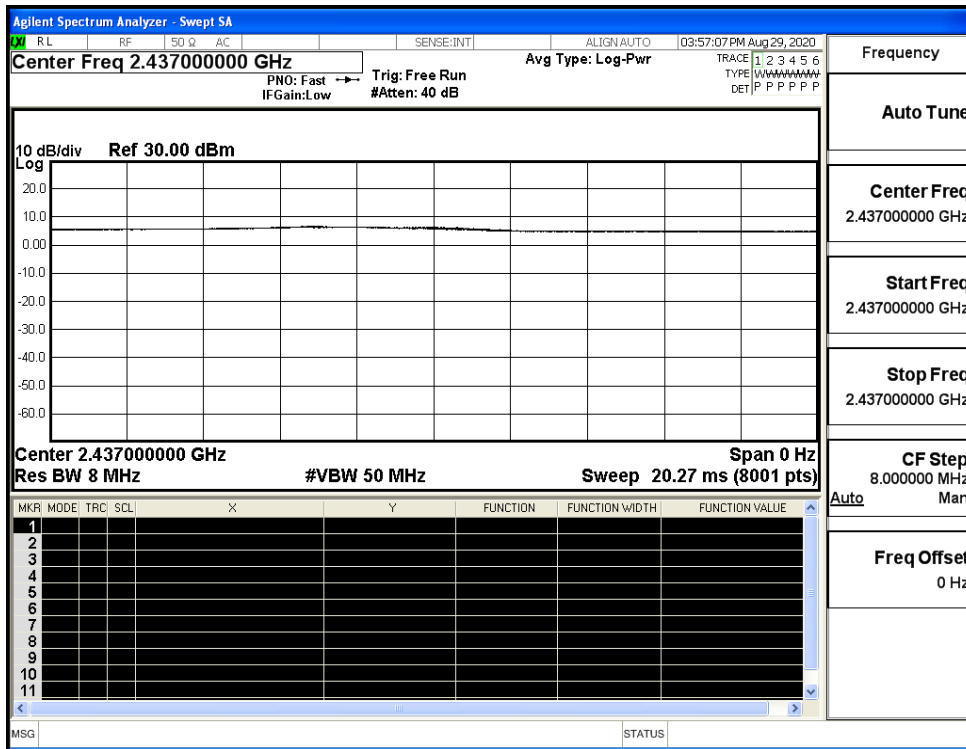
#### Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

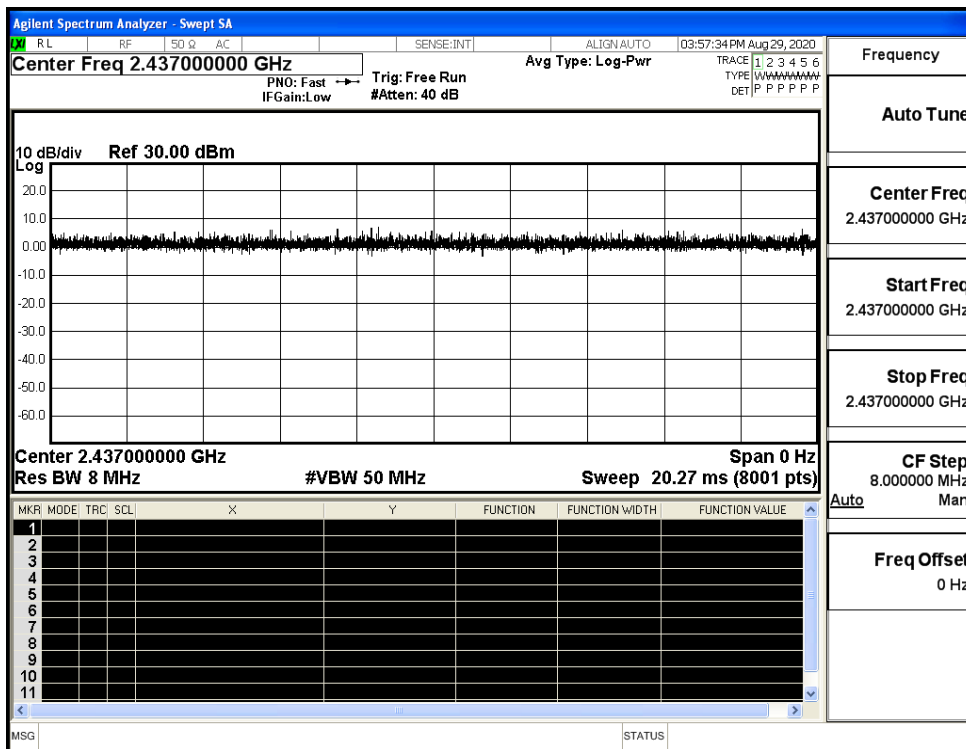
#### C.1 Duty Cycle

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

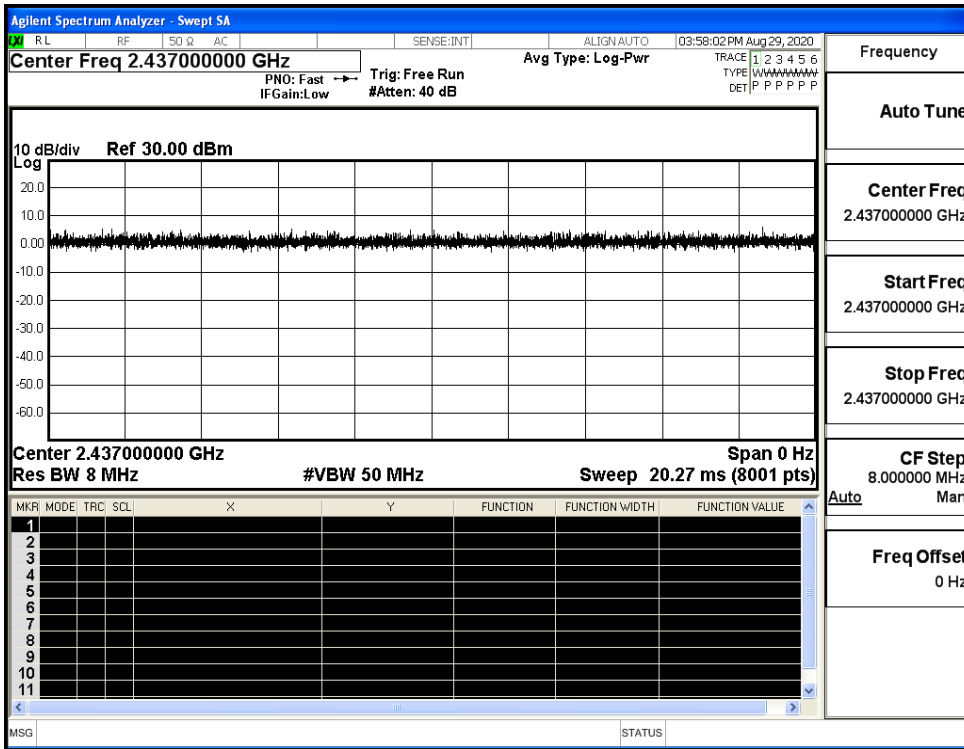
Duty Cycle\_11B\_2437\_Ant1



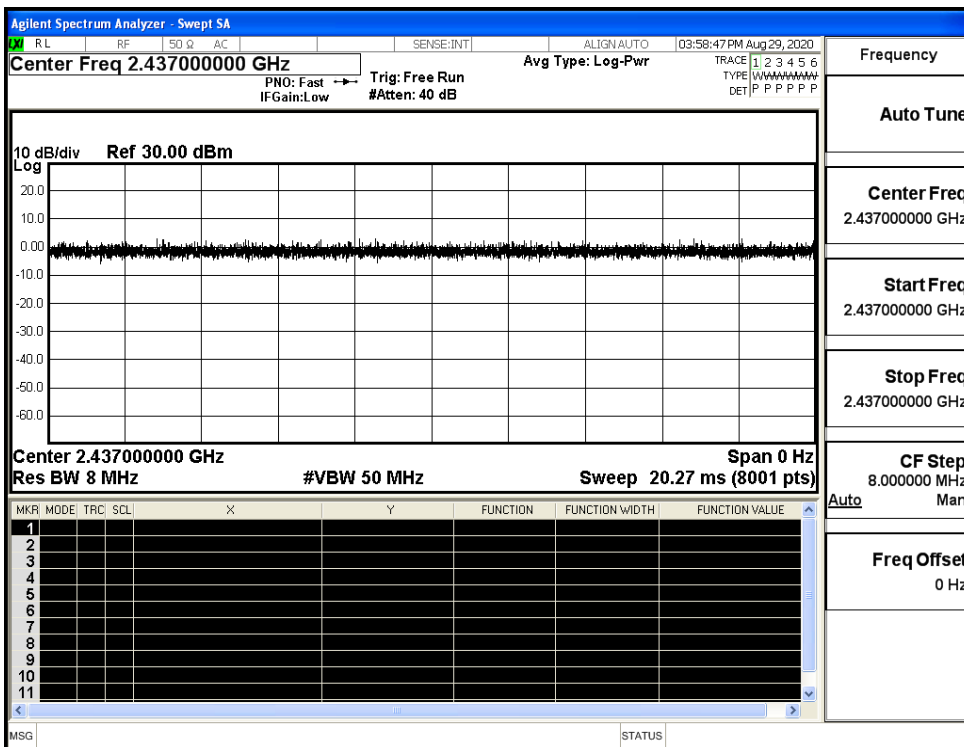
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



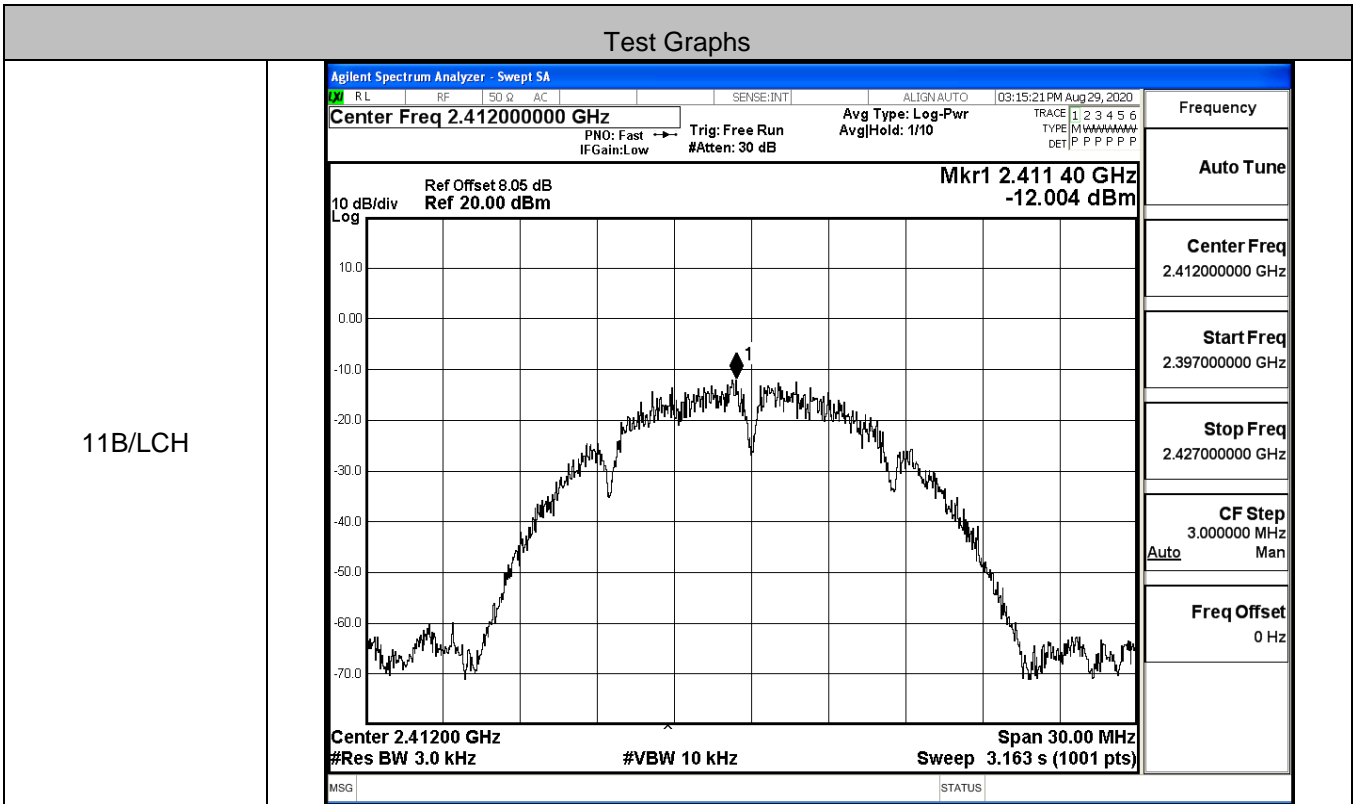
**C.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.25	30	PASS
	MCH	13.98	30	PASS
	HCH	13.72	30	PASS
11G	LCH	13.91	30	PASS
	MCH	13.78	30	PASS
	HCH	12.93	30	PASS
11N20SISO	LCH	13.91	30	PASS
	MCH	13.93	30	PASS
	HCH	13.80	30	PASS
11N40SISO	LCH	13.24	30	PASS
	MCH	15.14	30	PASS
	HCH	15.13	30	PASS

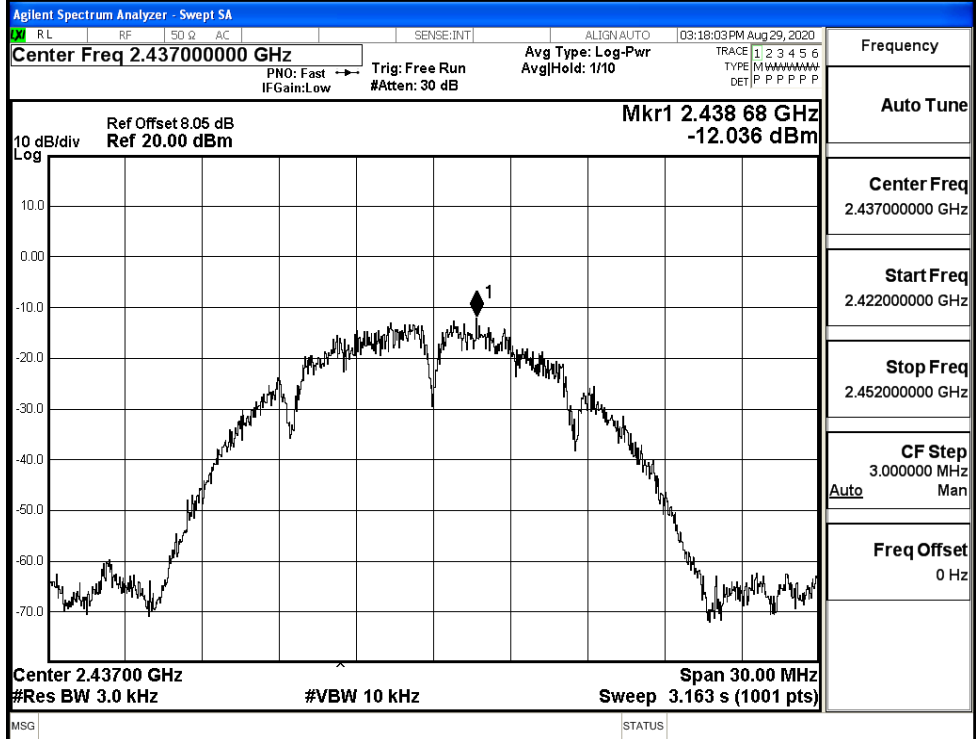
### C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.004	8	PASS
	MCH	-12.036	8	PASS
	HCH	-11.928	8	PASS
11G	LCH	-18.078	8	PASS
	MCH	-19.793	8	PASS
	HCH	-20.568	8	PASS
11N20SISO	LCH	-19.234	8	PASS
	MCH	-20.026	8	PASS
	HCH	-19.879	8	PASS
11N40SISO	LCH	-18.935	8	PASS
	MCH	-20.600	8	PASS
	HCH	-21.569	8	PASS

#### Test Graphs

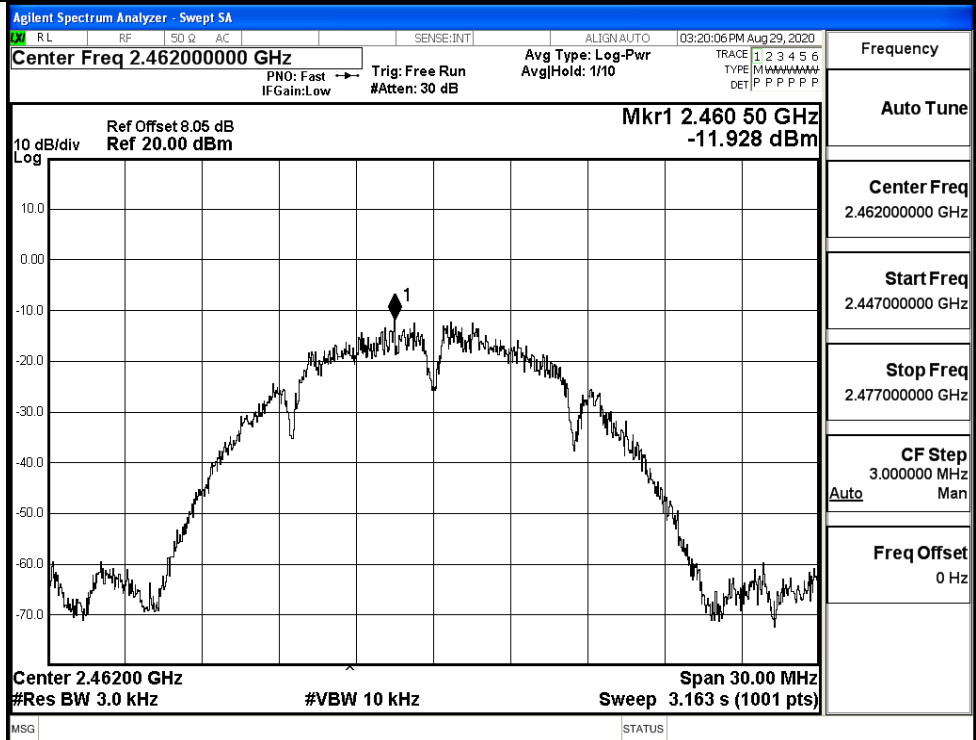


11B/MCH



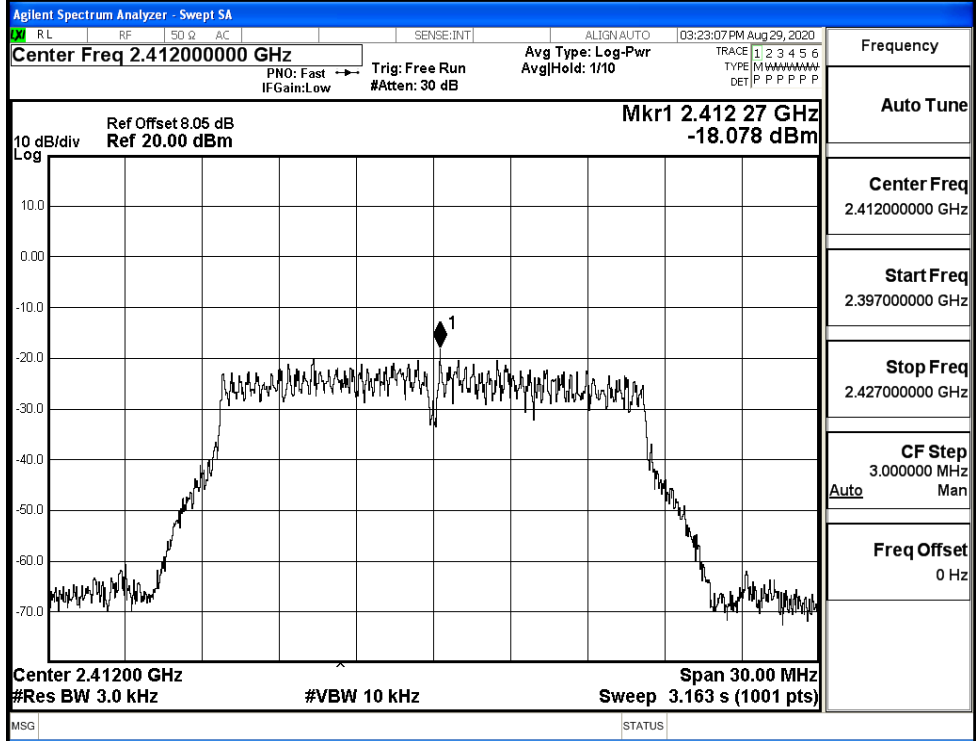
Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11B/HCH

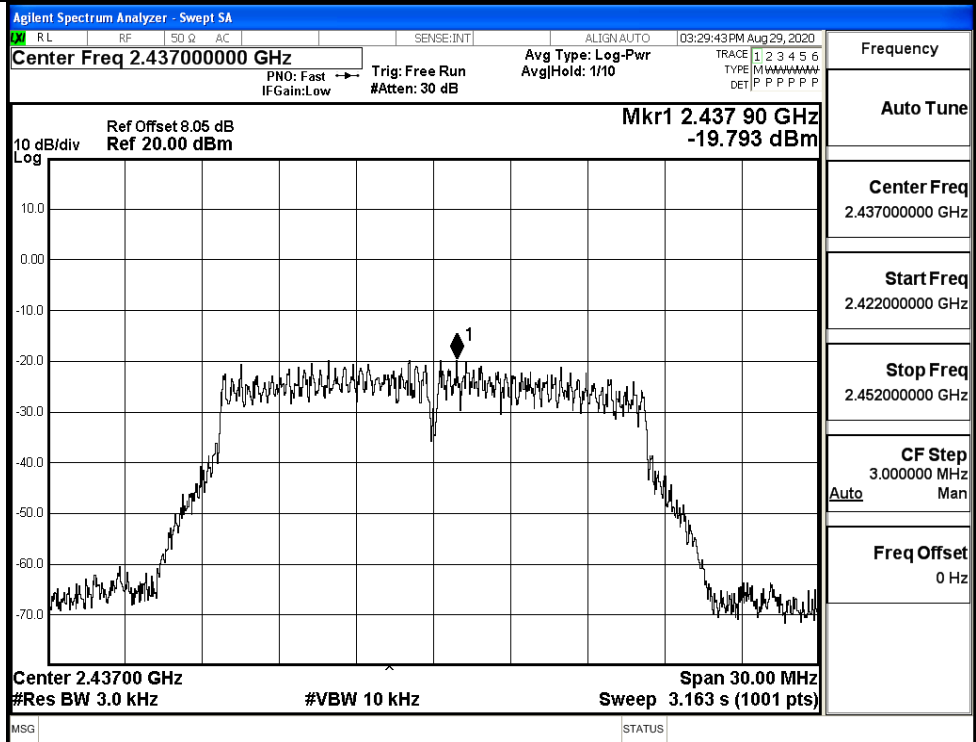


Frequency
Auto Tune
Center Freq 2.462000000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

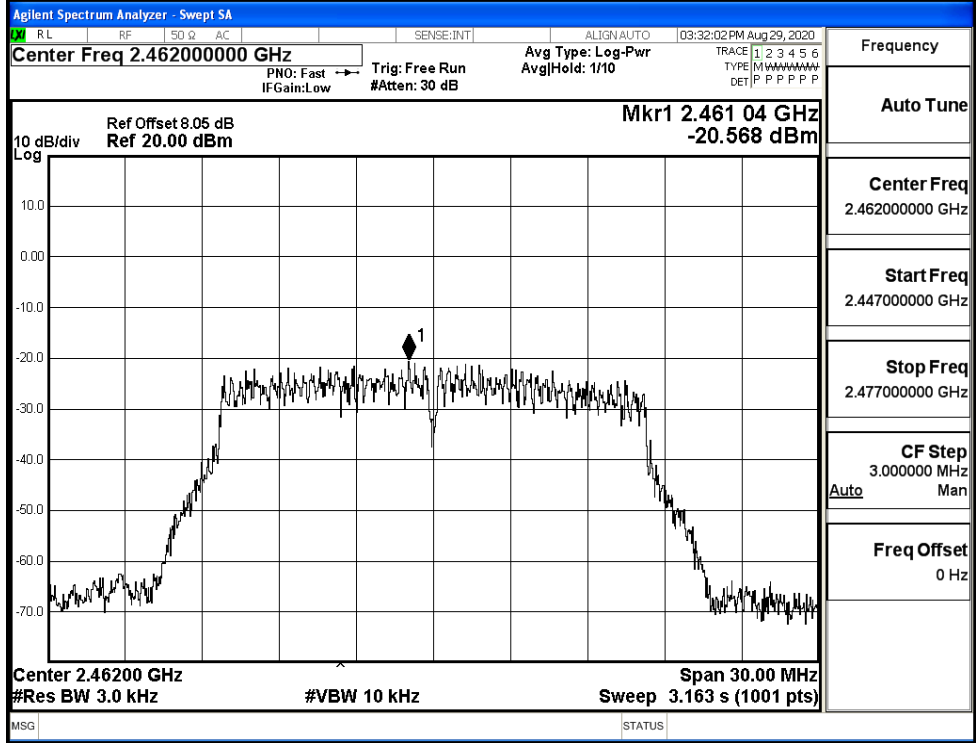
11G/LCH



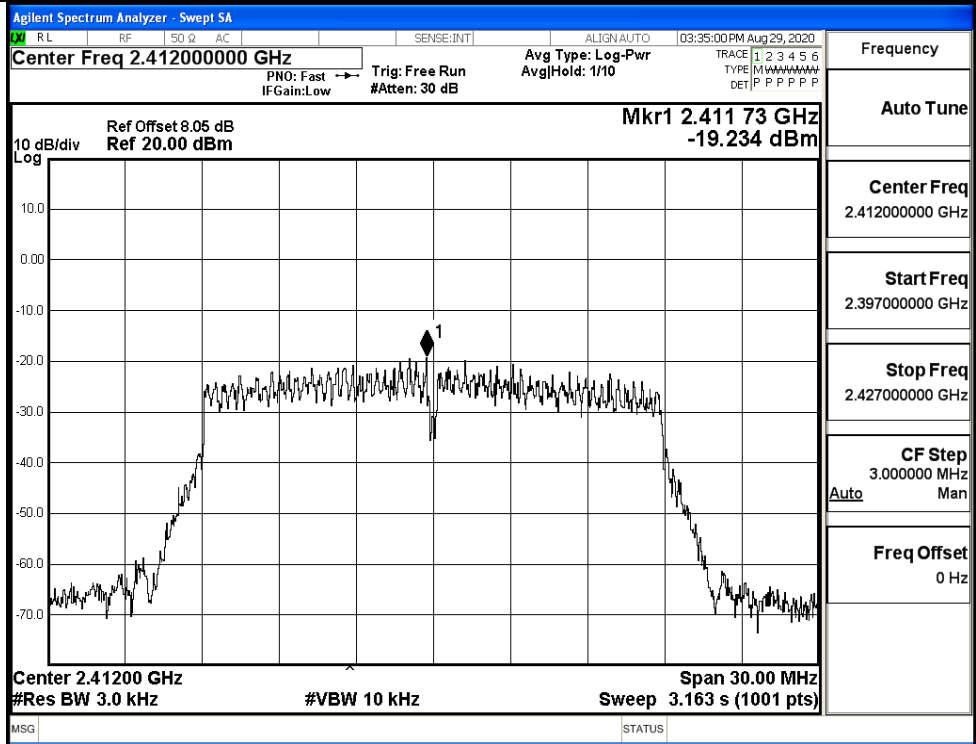
11G/MCH



11G/HCH

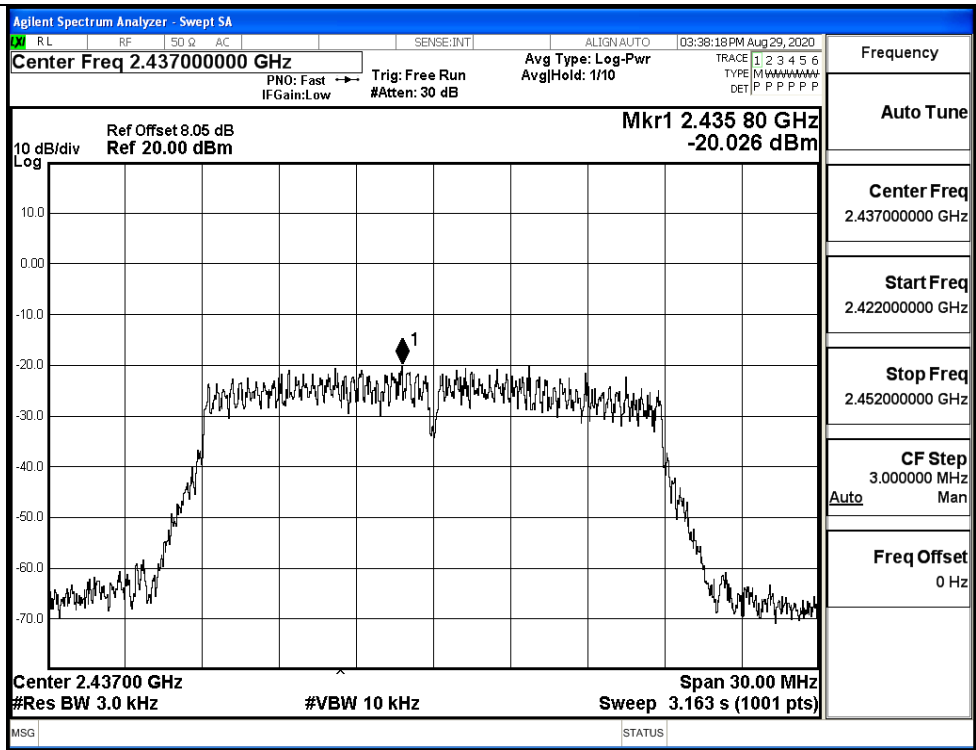


11N20SISO/LCH

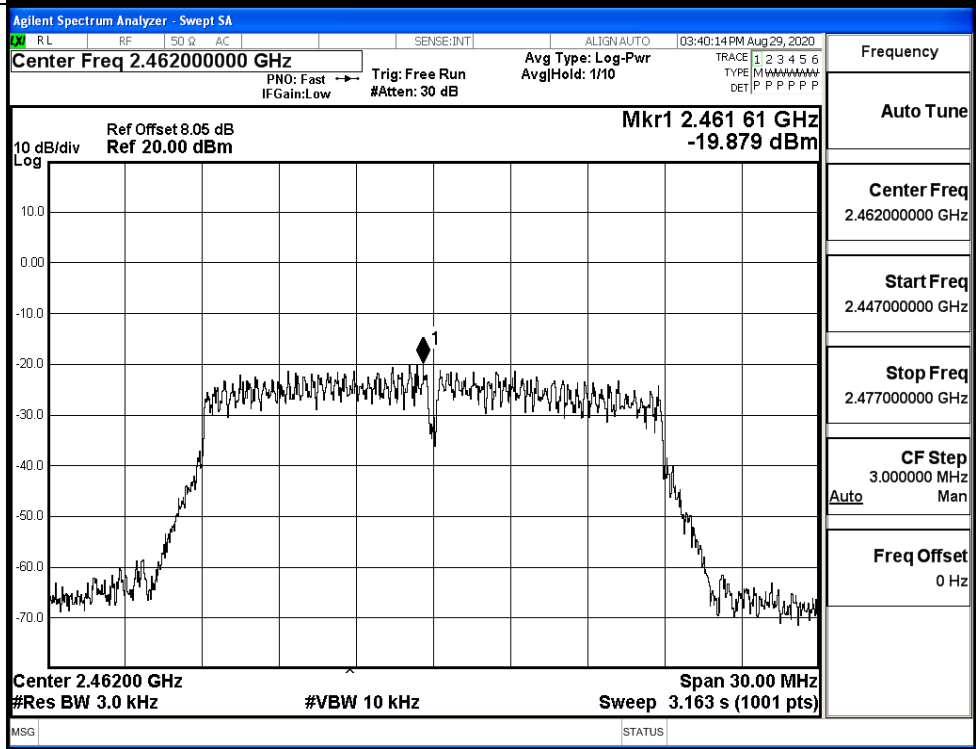




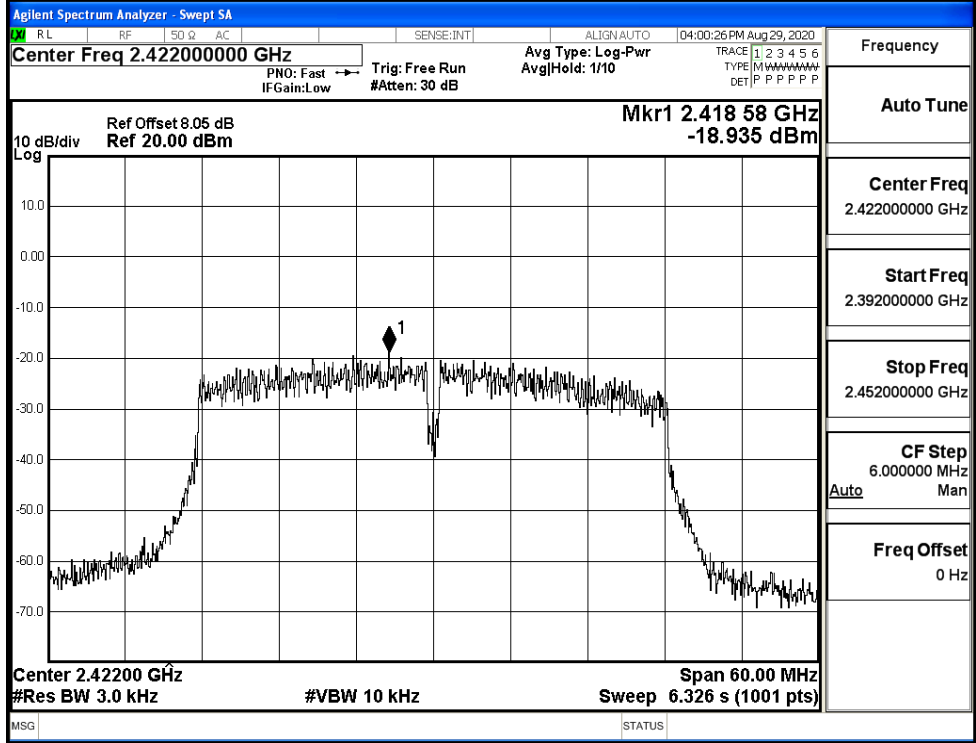
11N20SISO/MCH



11N20SISO/HCH

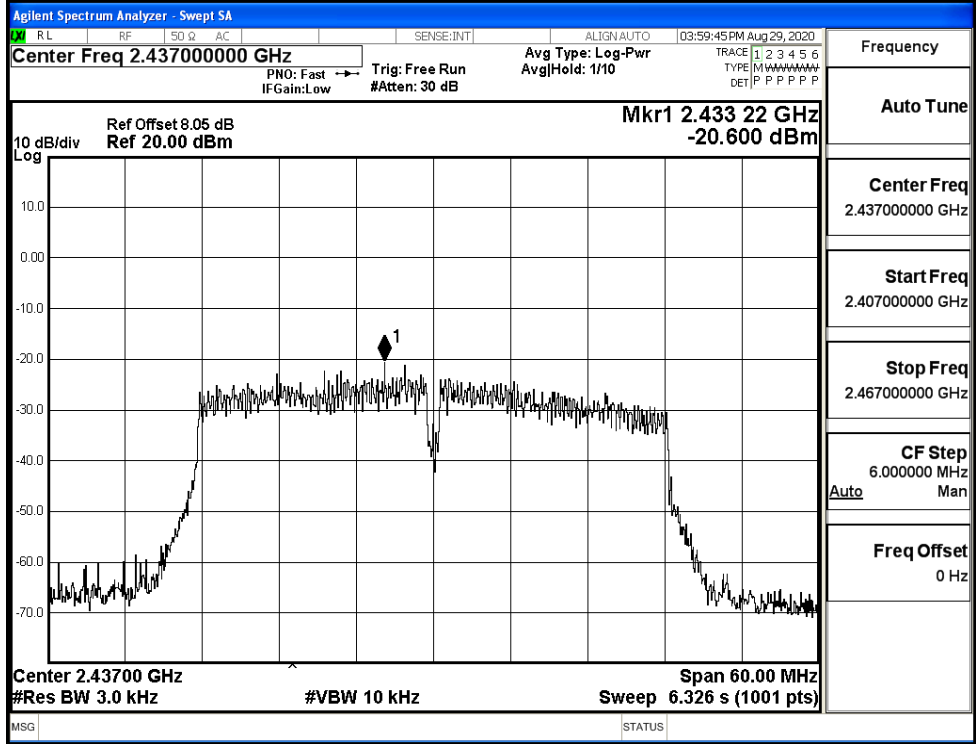


11N40SISO/LCH



Frequency
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

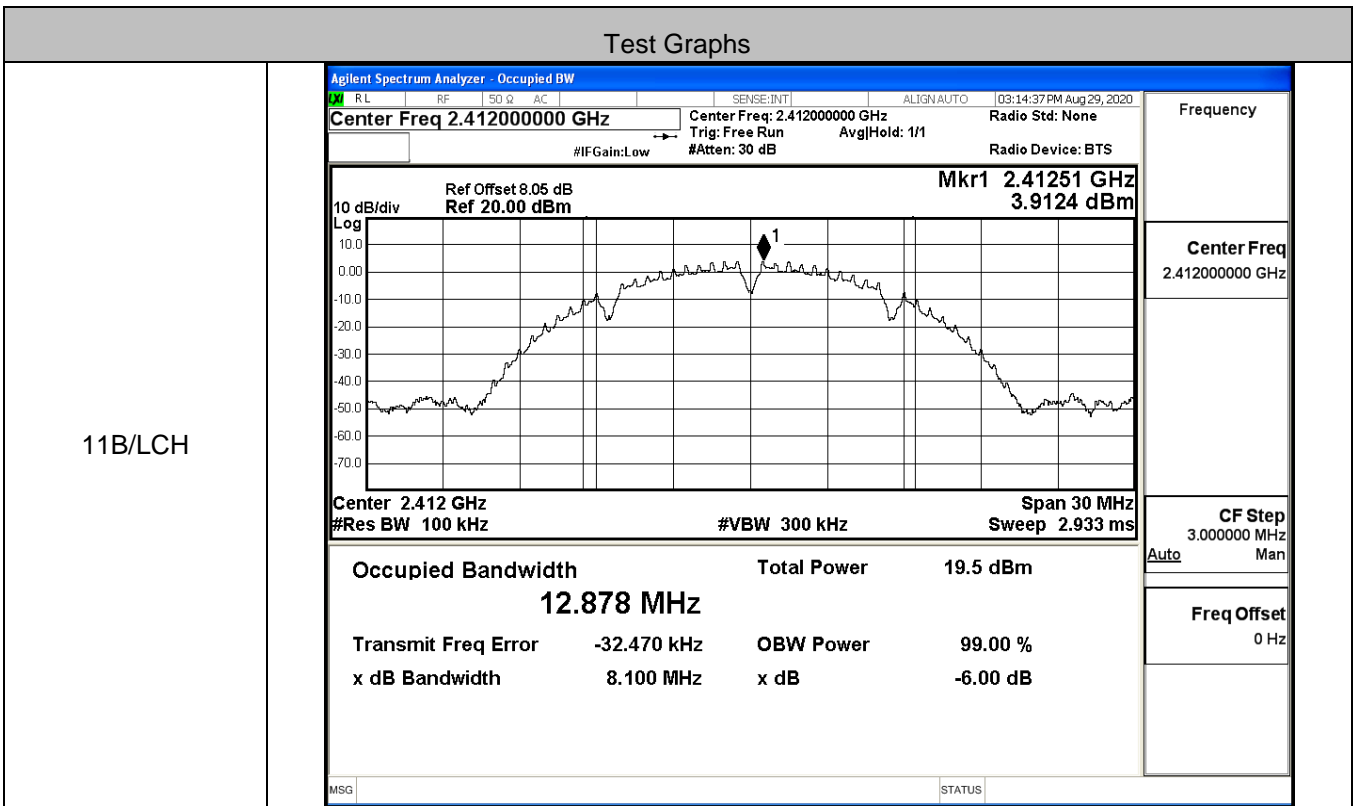


Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.40700000 GHz
Stop Freq 2.46700000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

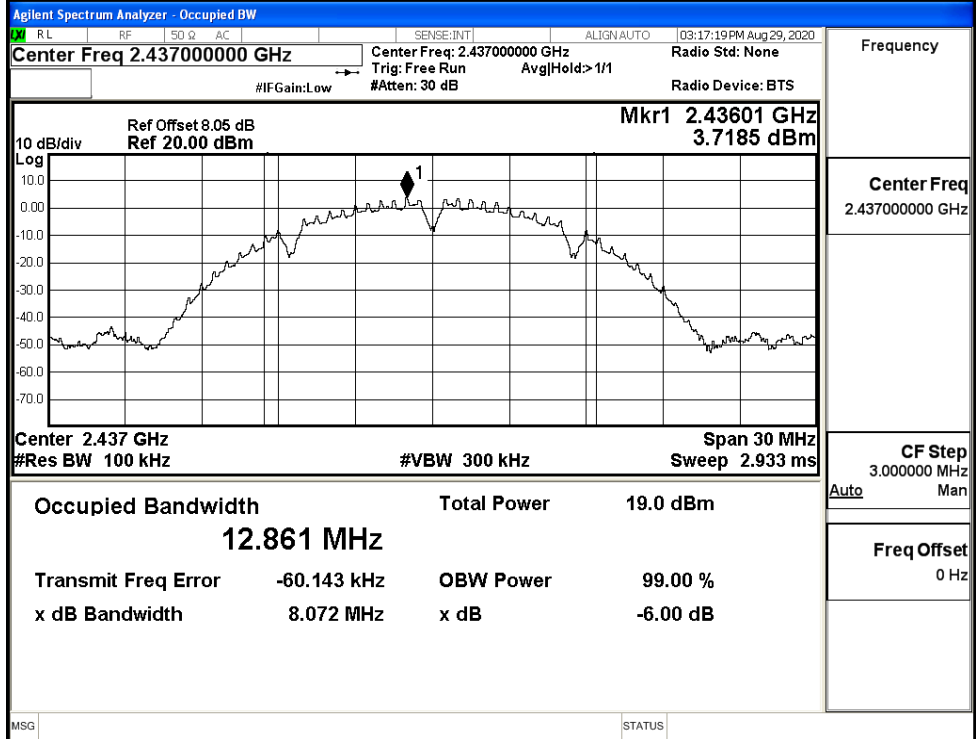


**C.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.100	≥0.5	PASS
	MCH	8.072	≥0.5	PASS
	HCH	7.606	≥0.5	PASS
11G	LCH	16.39	≥0.5	PASS
	MCH	16.38	≥0.5	PASS
	HCH	16.41	≥0.5	PASS
11N20SISO	LCH	17.60	≥0.5	PASS
	MCH	17.60	≥0.5	PASS
	HCH	17.59	≥0.5	PASS
11N40SISO	LCH	34.10	≥0.5	PASS
	MCH	34.16	≥0.5	PASS
	HCH	35.42	≥0.5	PASS



11B/MCH



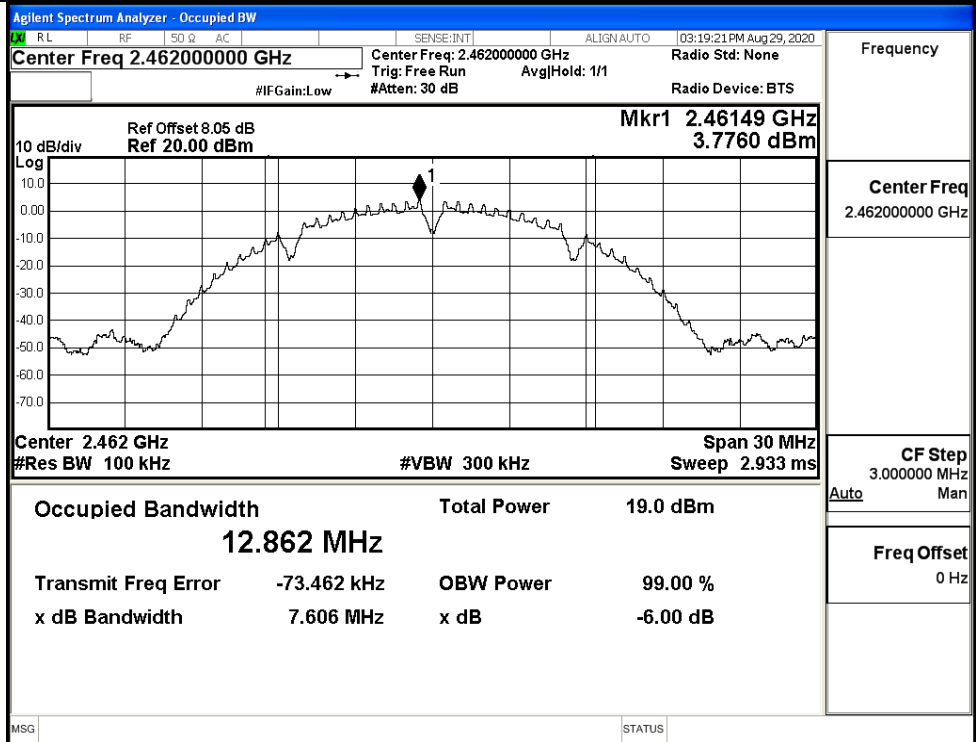
Frequency

Center Freq  
2.43700000 GHz

CF Step  
3.000000 MHz

Freq Offset  
0 Hz

11B/HCH



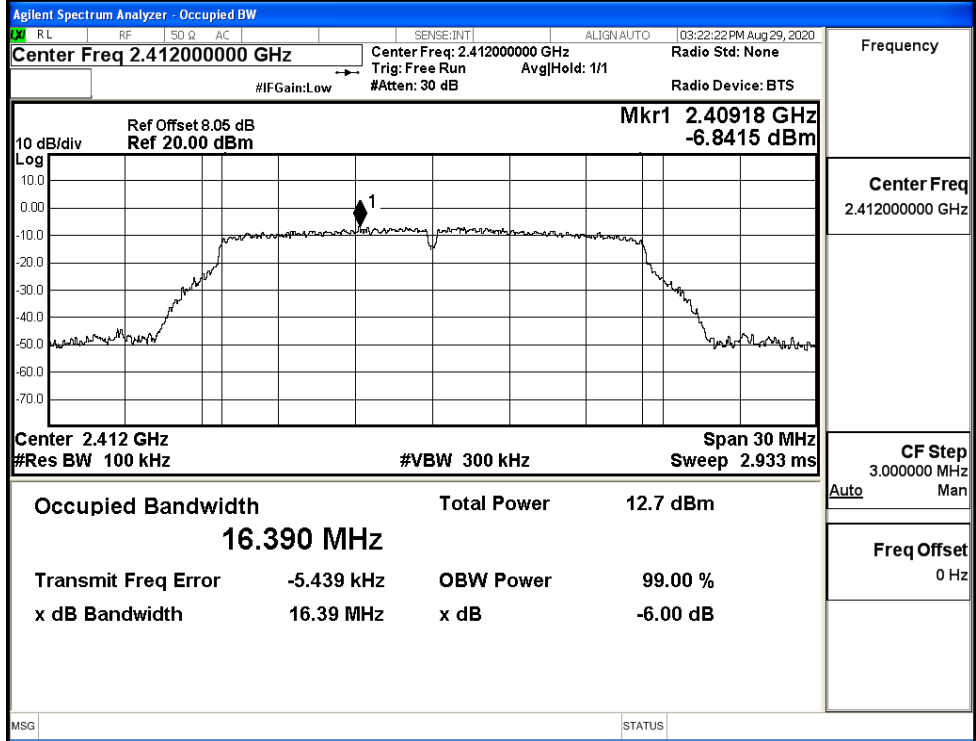
Frequency

Center Freq  
2.46200000 GHz

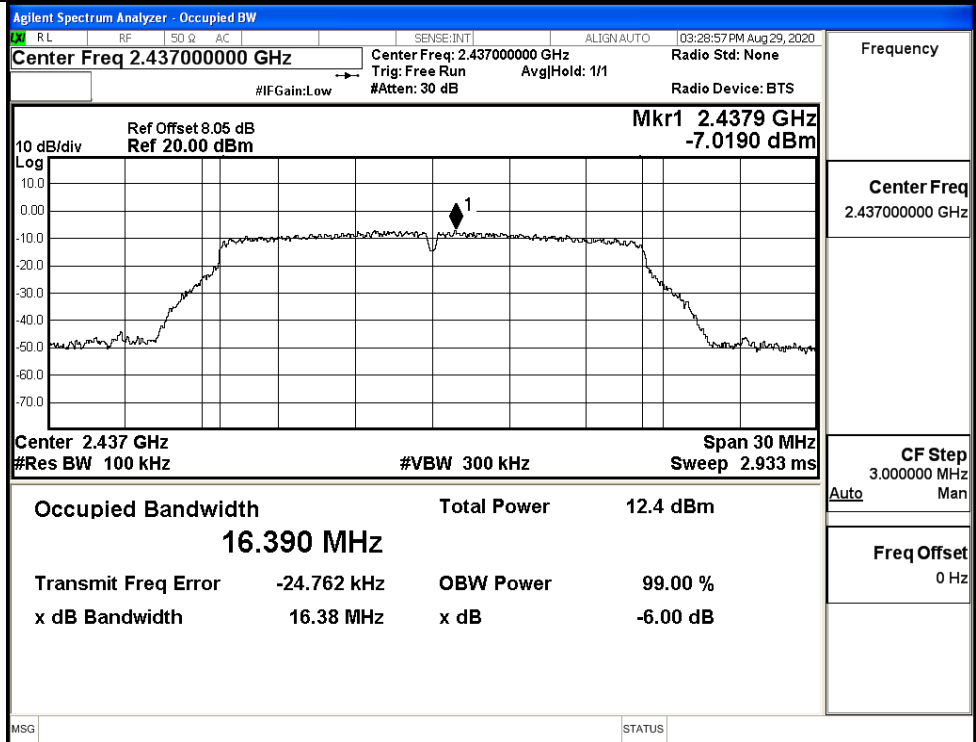
CF Step  
3.000000 MHz

Freq Offset  
0 Hz

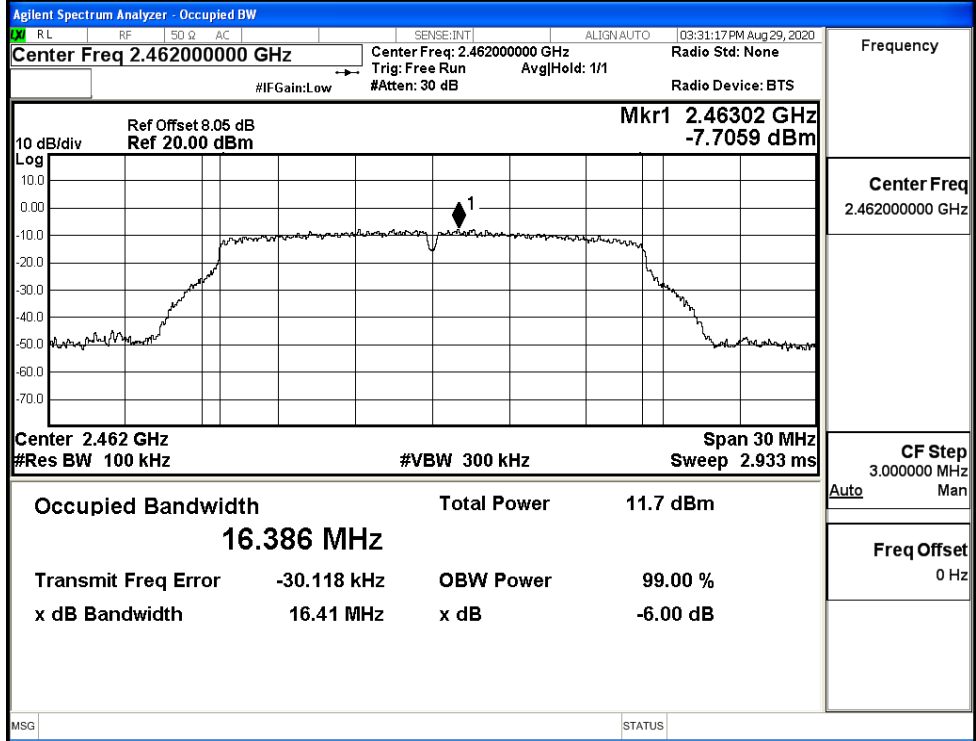
11G/LCH



11G/MCH

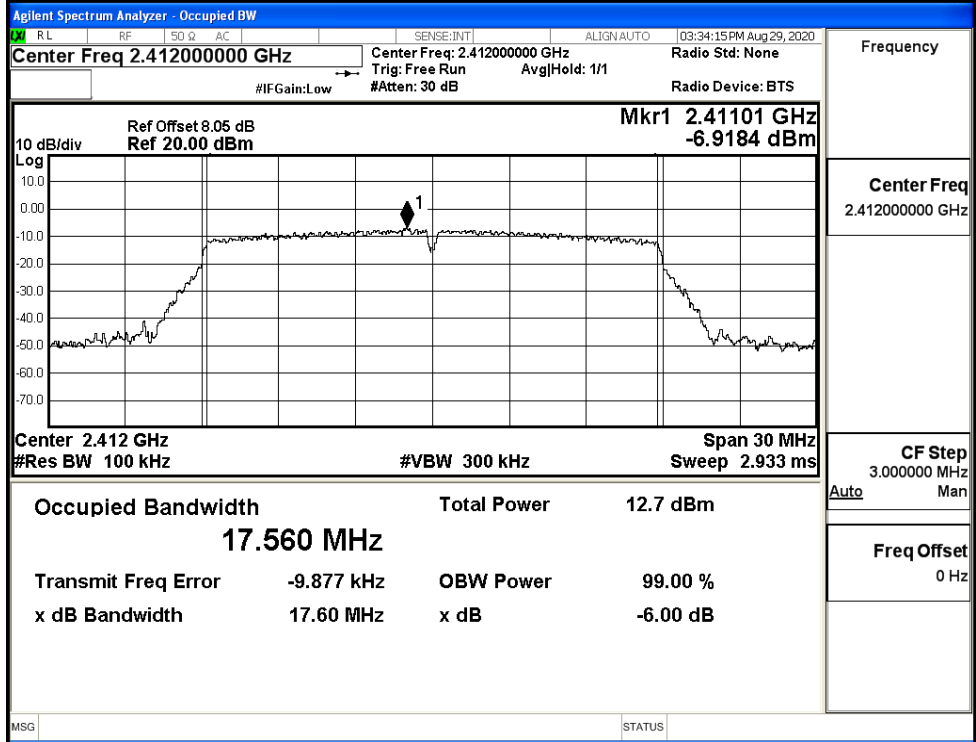


11G/HCH



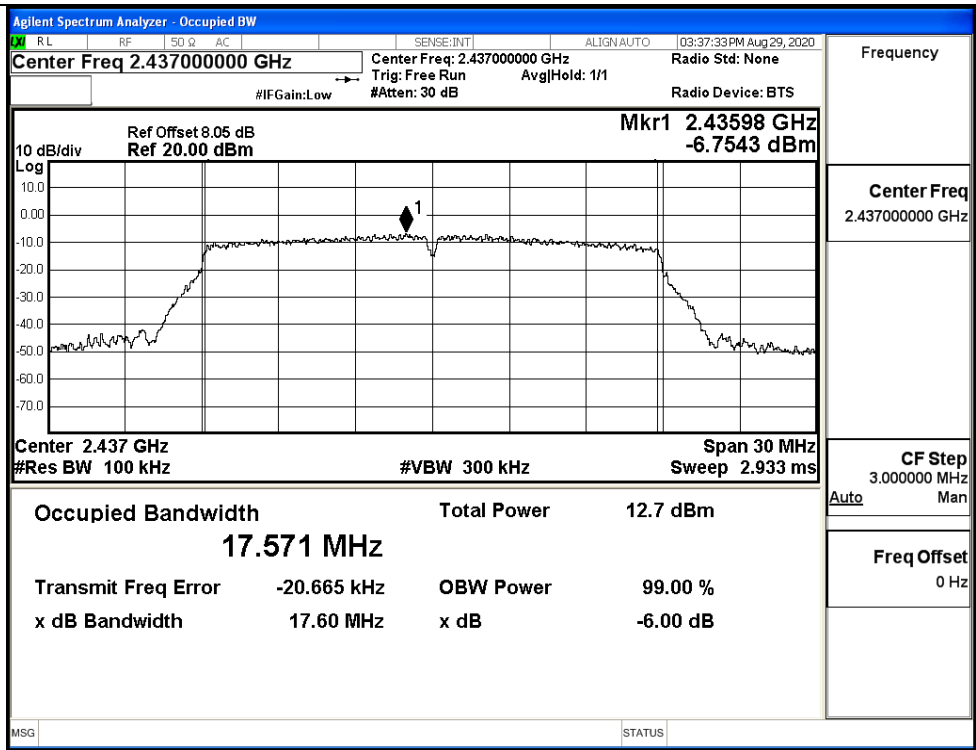
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

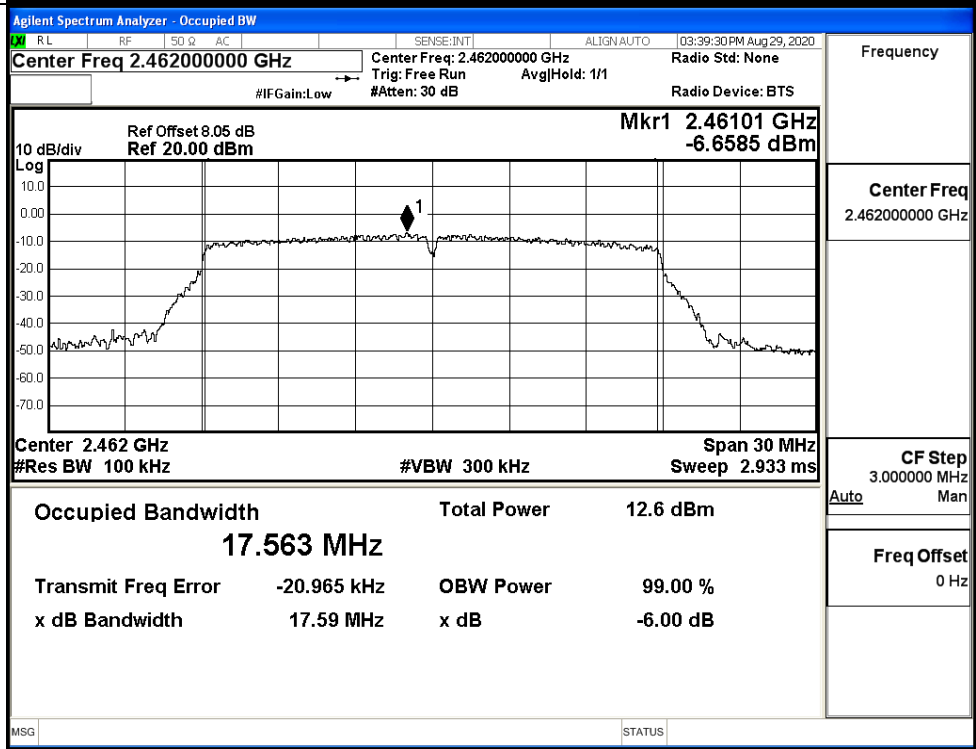


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

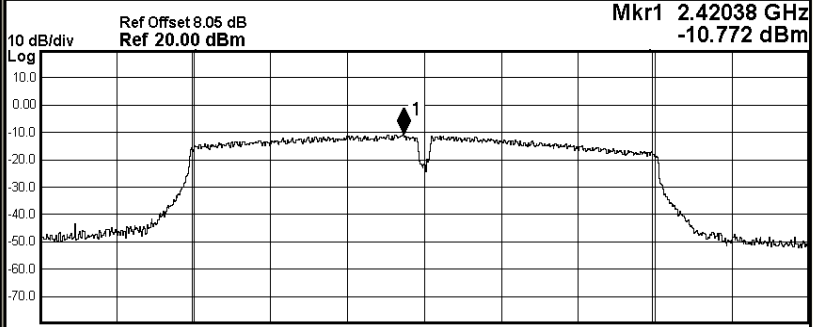
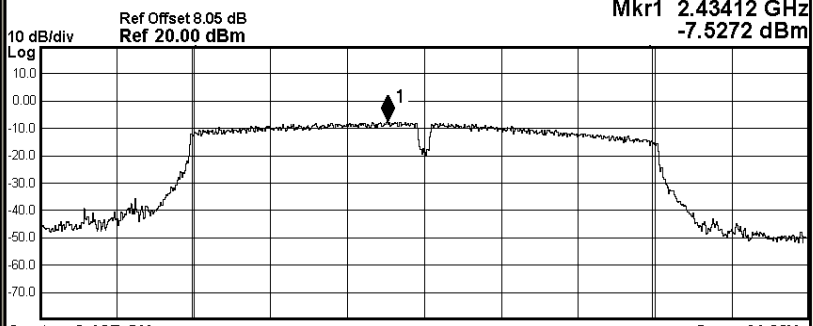
11N20SISO/MCH



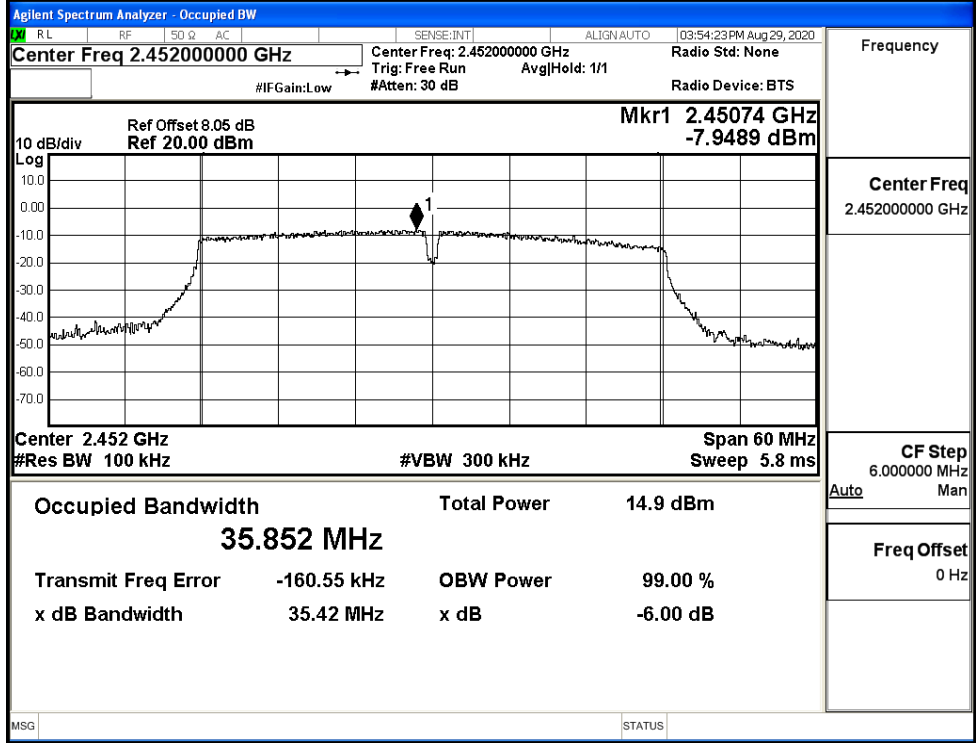
11N20SISO/HCH





<p>11N40SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:49:22 PM Aug 29, 2020</p> <p>Center Freq 2.42200000 GHz Center Freq: 2.42200000 GHz Radio Std: None                  Trig: Free Run AvgHold: 1/1                  #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.05 dB Mkr1 2.42038 GHz                  Ref 20.00 dBm -10.772 dBm</p>  <p>Center 2.422 GHz Span 60 MHz                  #Res BW 100 kHz #VBW 300 kHz Sweep 5.8 ms</p> <p>Occupied Bandwidth Total Power 11.7 dBm  <b>35.828 MHz</b></p> <p>Transmit Freq Error -131.03 kHz OBW Power 99.00 %                  x dB Bandwidth 34.10 MHz x dB -6.00 dB</p> <p>MSG STATUS</p>	<p>Frequency</p> <p>Center Freq 2.42200000 GHz</p> <p>CF Step 6.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
	<p>11N40SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:52:40 PM Aug 29, 2020</p> <p>Center Freq 2.43700000 GHz Center Freq: 2.43700000 GHz Radio Std: None                  Trig: Free Run AvgHold: 1/1                  #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.05 dB Mkr1 2.43412 GHz                  Ref 20.00 dBm -7.5272 dBm</p>  <p>Center 2.437 GHz Span 60 MHz                  #Res BW 100 kHz #VBW 300 kHz Sweep 5.8 ms</p> <p>Occupied Bandwidth Total Power 15.0 dBm  <b>35.803 MHz</b></p> <p>Transmit Freq Error -162.74 kHz OBW Power 99.00 %                  x dB Bandwidth 34.16 MHz x dB -6.00 dB</p> <p>MSG STATUS</p>

11N40SISO/HCH

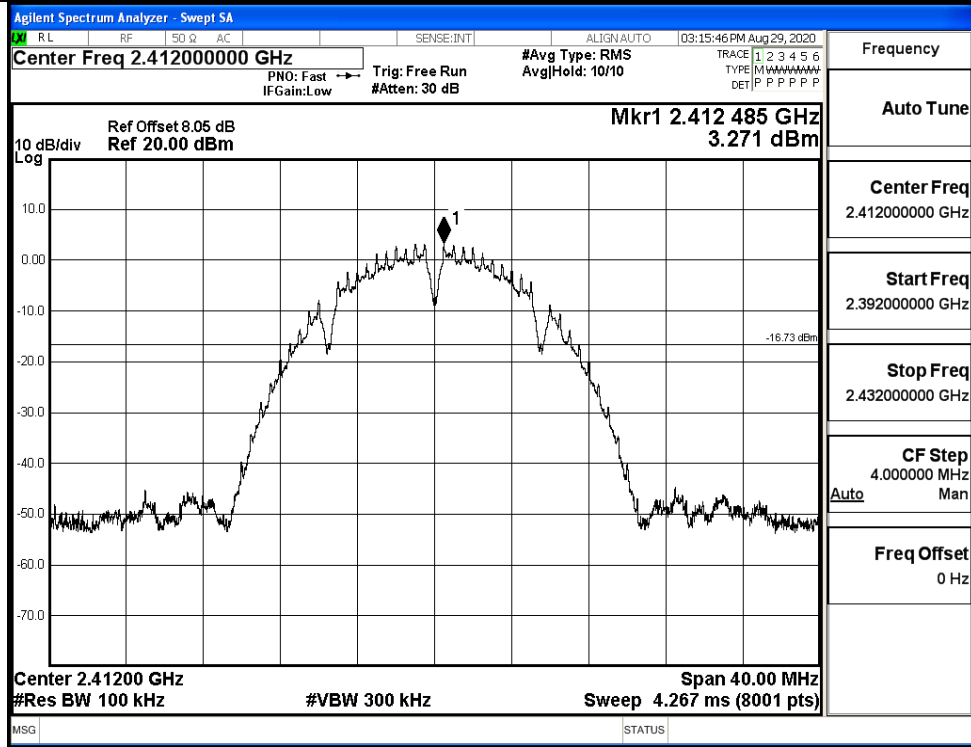


**C.5 RF Conducted Spurious Emissions**

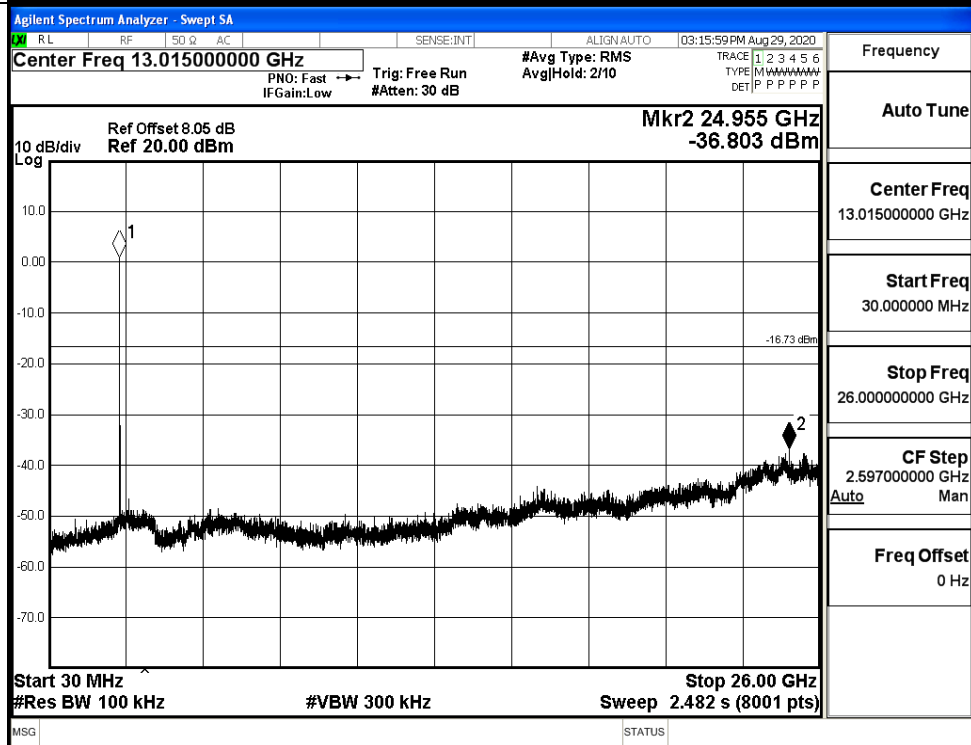
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.271	-36.803	-16.729	PASS
	MCH	3.499	-37.978	-16.501	PASS
	HCH	2.99	-38.340	-17.010	PASS
11G	LCH	-6.865	-37.813	-26.865	PASS
	MCH	-7.502	-37.192	-27.502	PASS
	HCH	-8.126	-36.863	-28.126	PASS
11N20 SISO	LCH	-7.204	-37.199	-27.204	PASS
	MCH	-7.527	-37.949	-27.527	PASS
	HCH	-7.565	-37.279	-27.565	PASS
11N40 SISO	LCH	-11.238	-38.138	-31.238	PASS
	MCH	-7.972	-38.266	-27.972	PASS
	HCH	-7.958	-37.913	-27.958	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

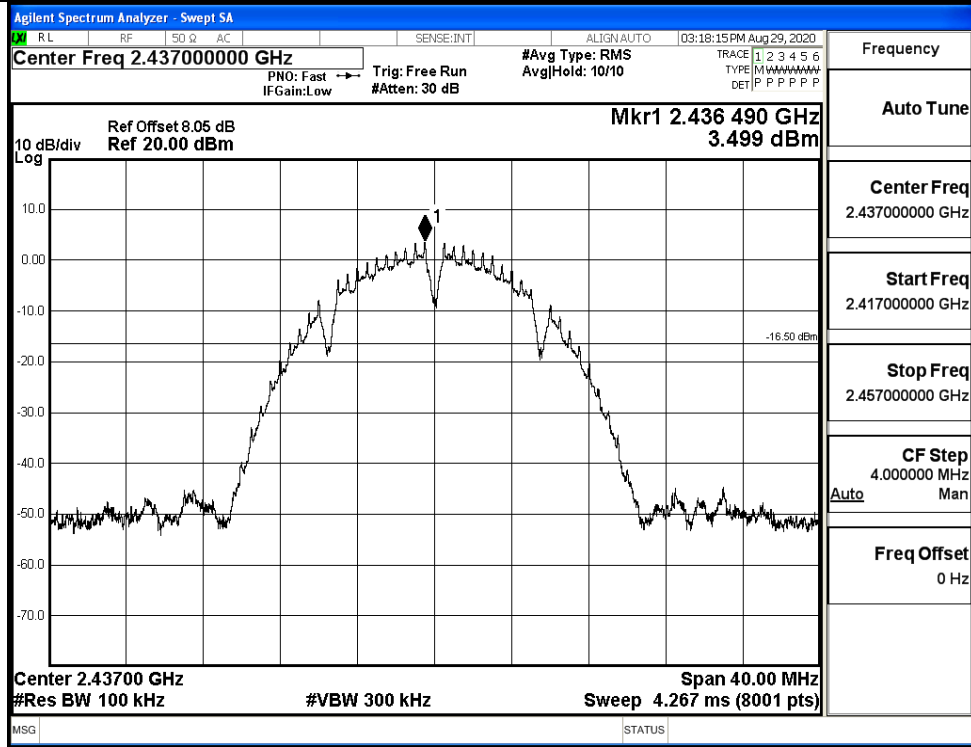


Puw/11B/LCH

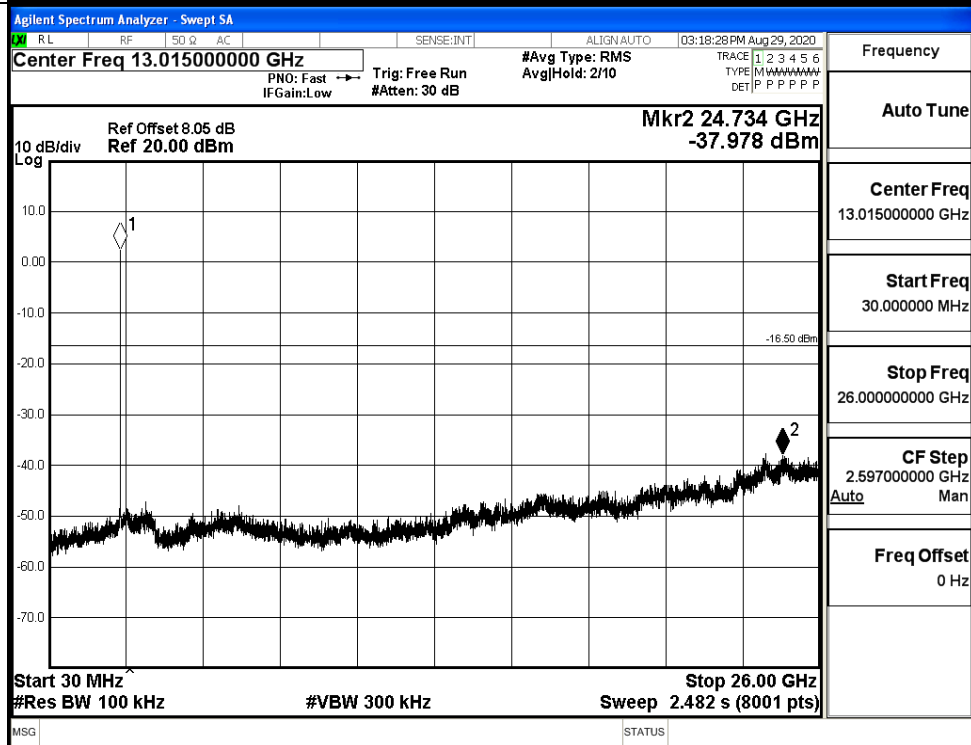


11B\_MCH\_Graphs

Pref/11B/MCH

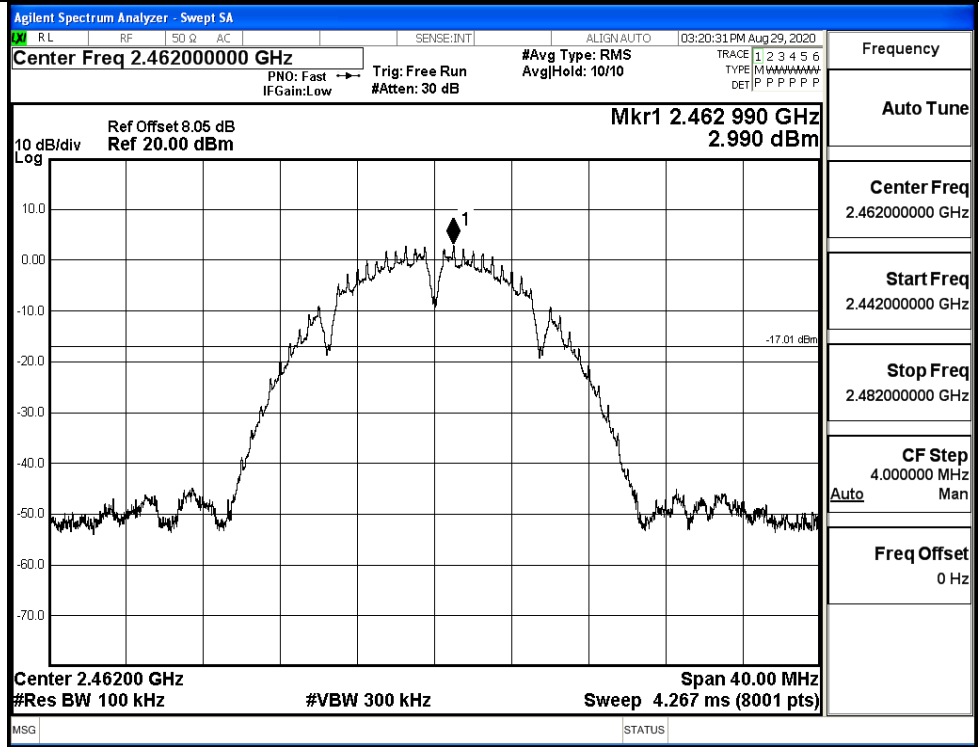


Puw/11B/MCH

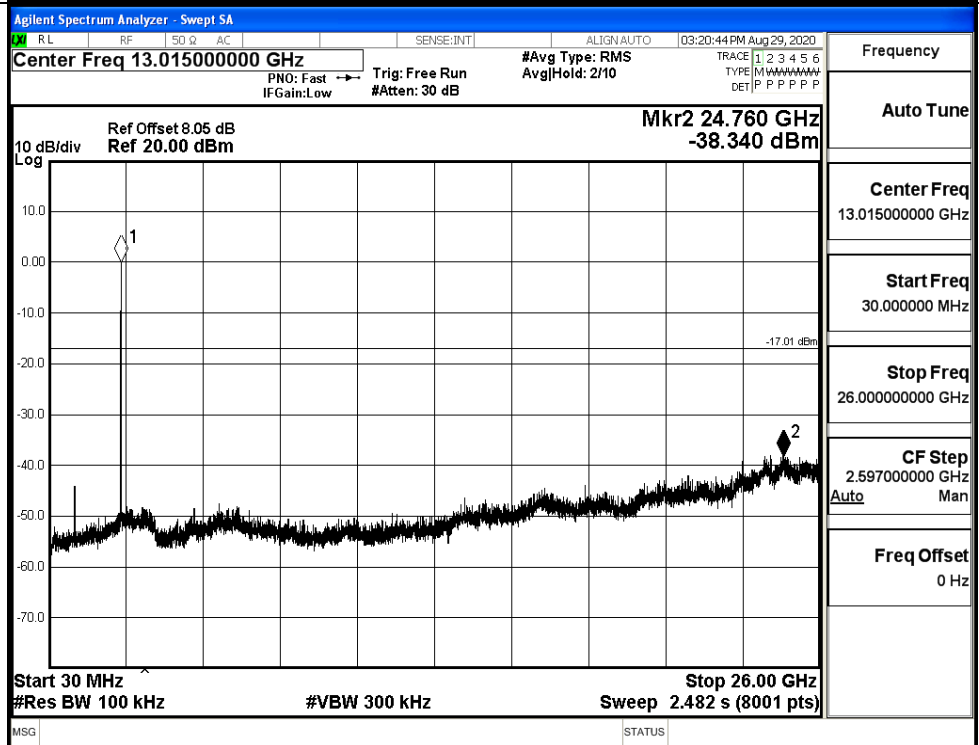


11B\_HCH\_Graphs

Pref/11B/HCH

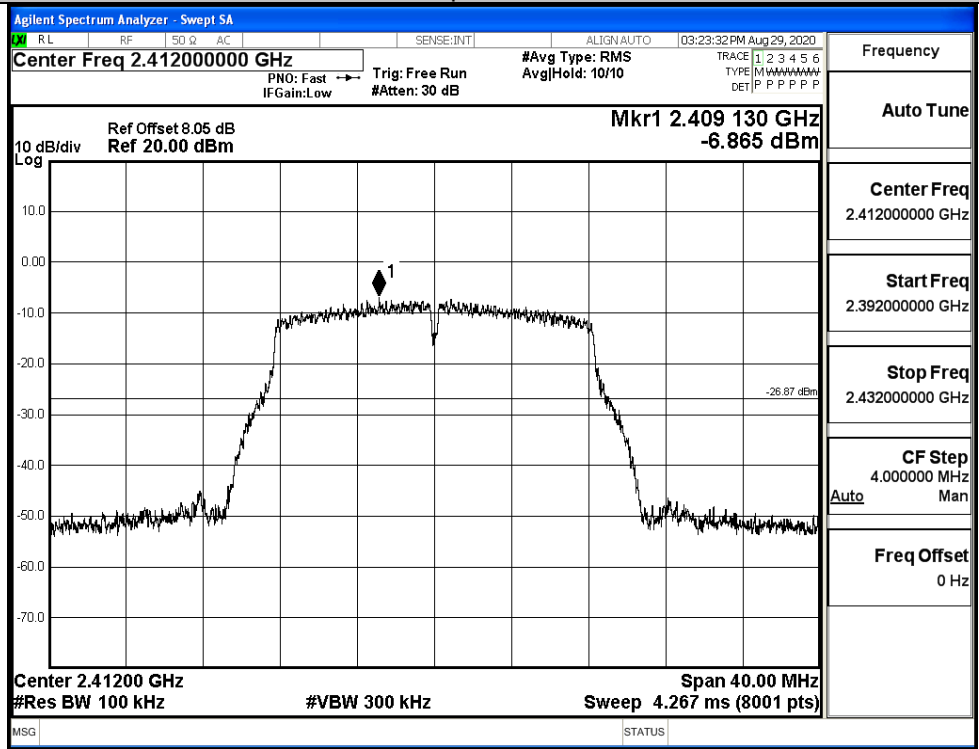


Puw/11B/HCH

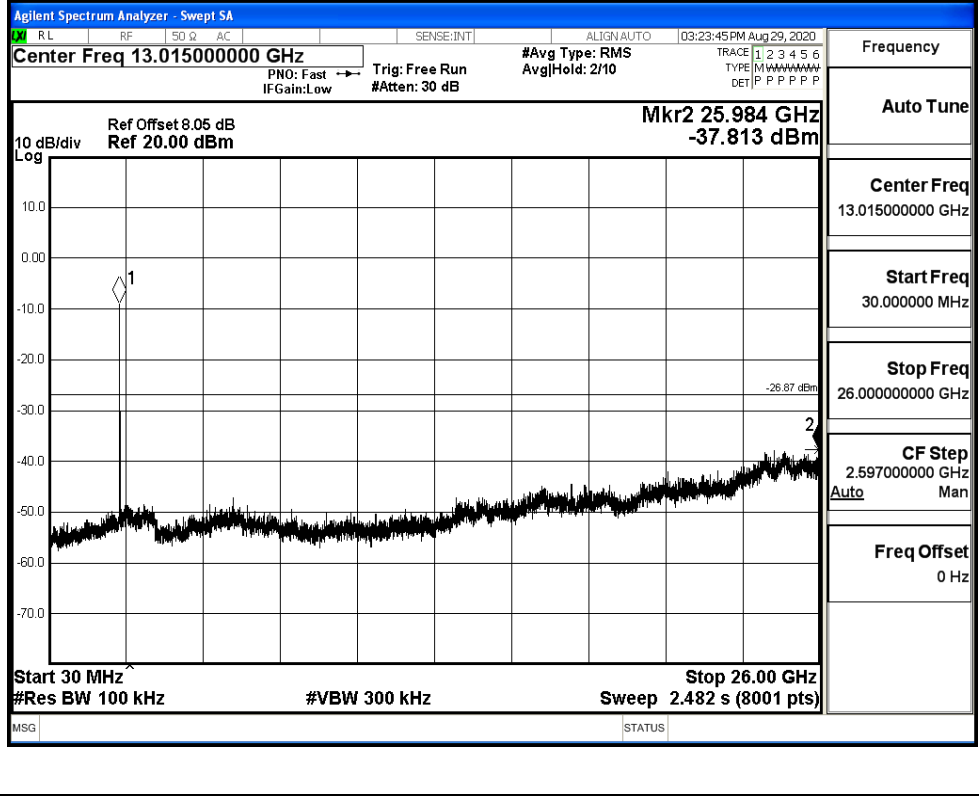


11G\_LCH\_Graphs

Pref/11G/LCH

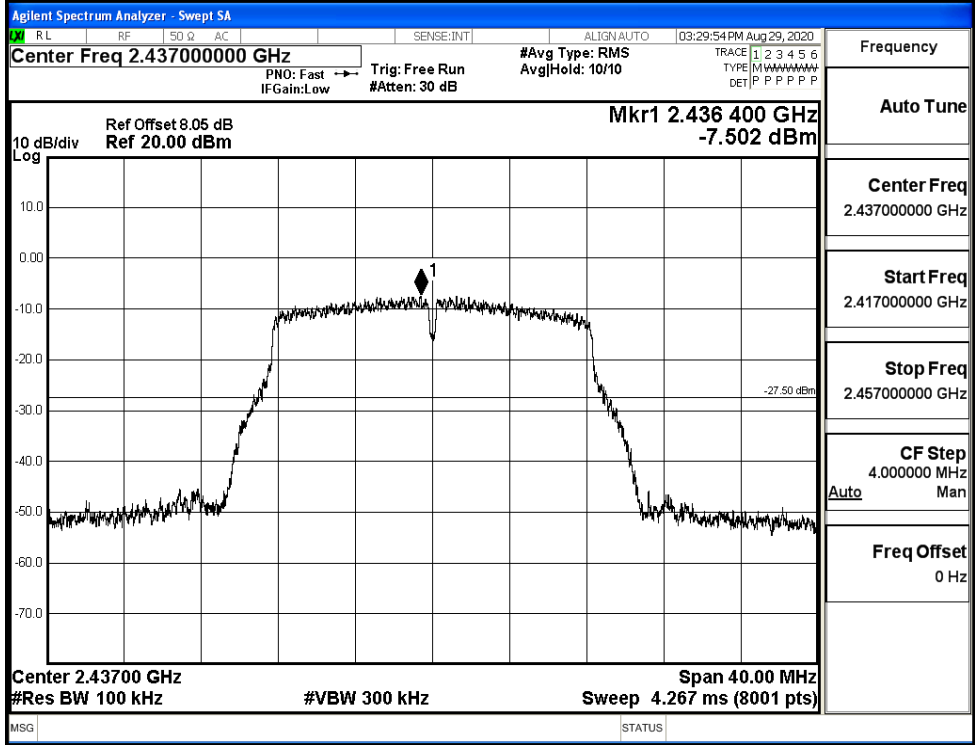


Puw/11G/LCH

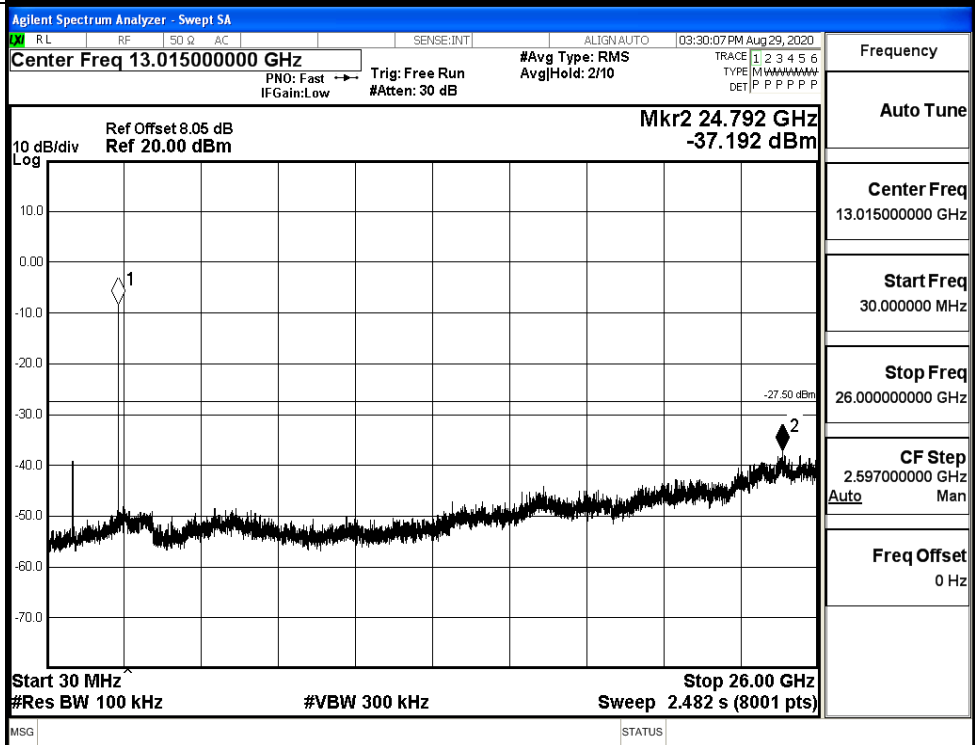


11G\_MCH\_Graphs

Pref/11G/MCH



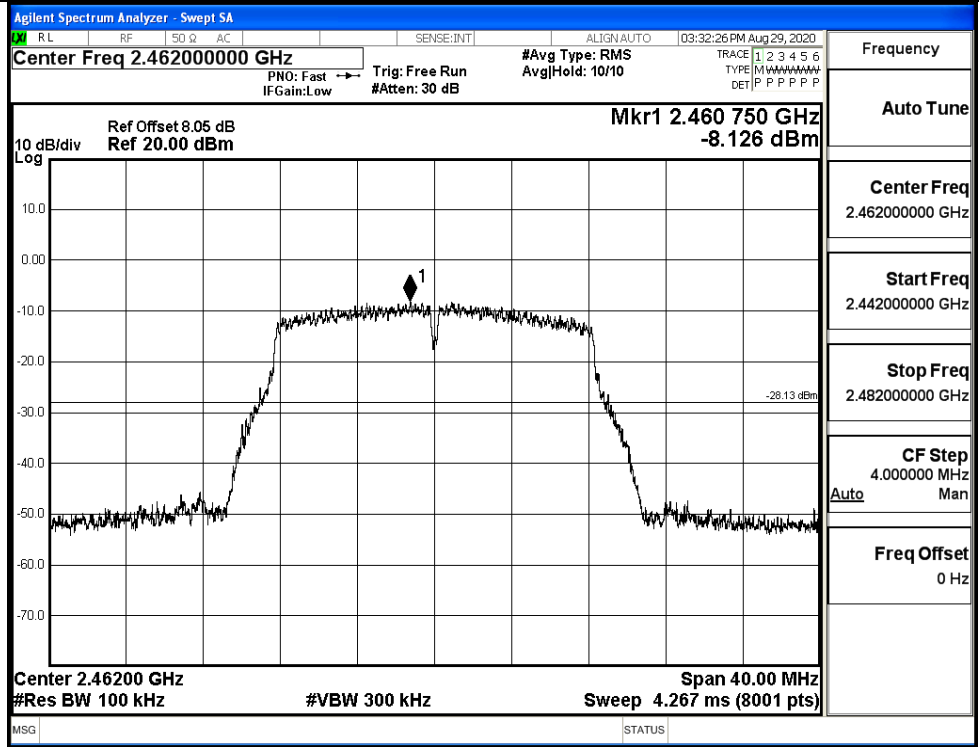
Puw/11G/MCH



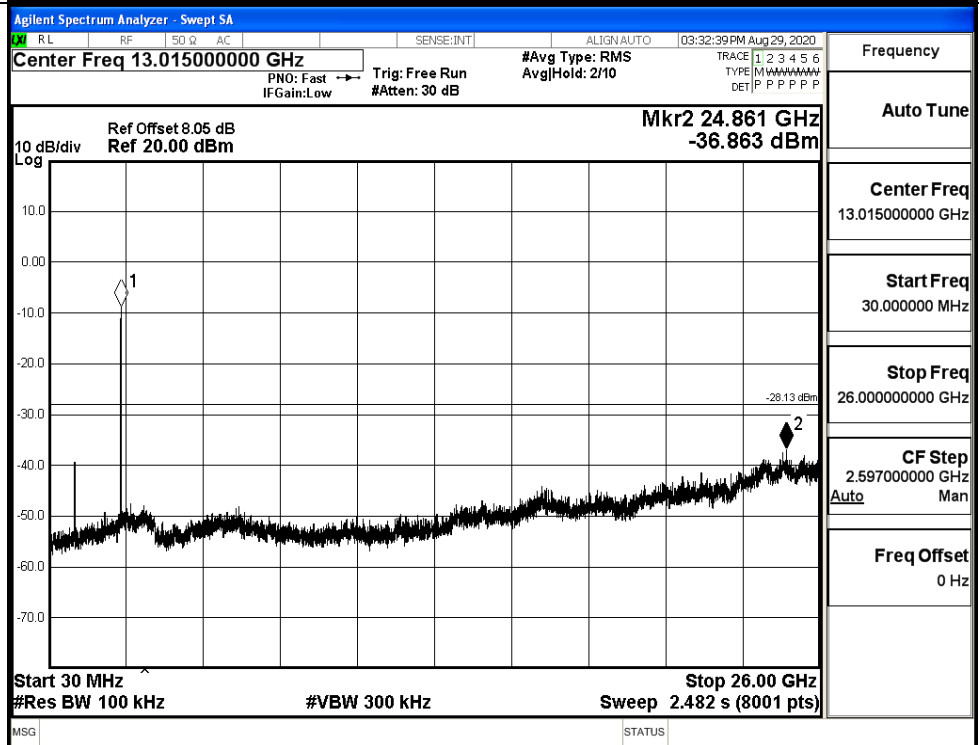


11G\_HCH\_Graphs

Pref/11G/HCH

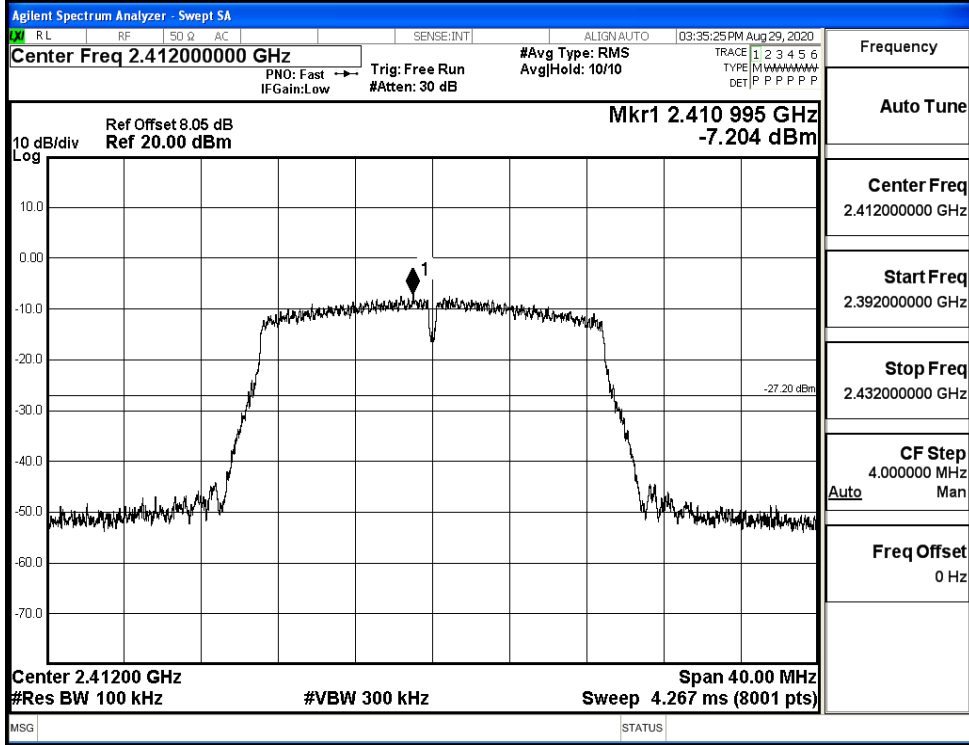


Puw/11G/HCH



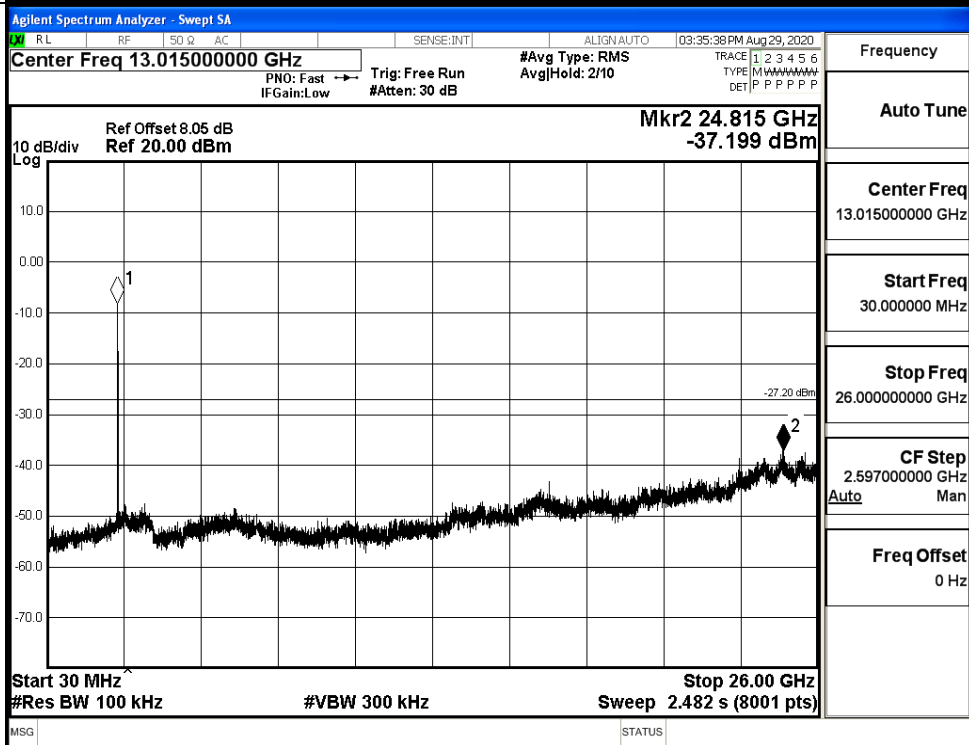
11N20SISO\_LCH\_Graphs

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

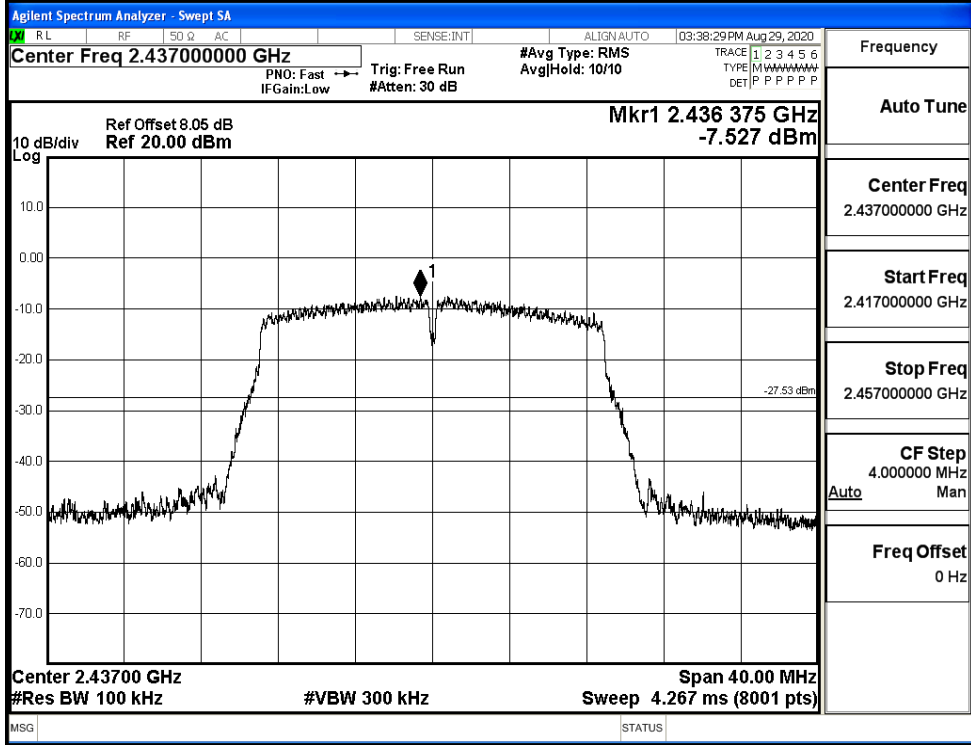
Puw/11N20  
SISO/LCH



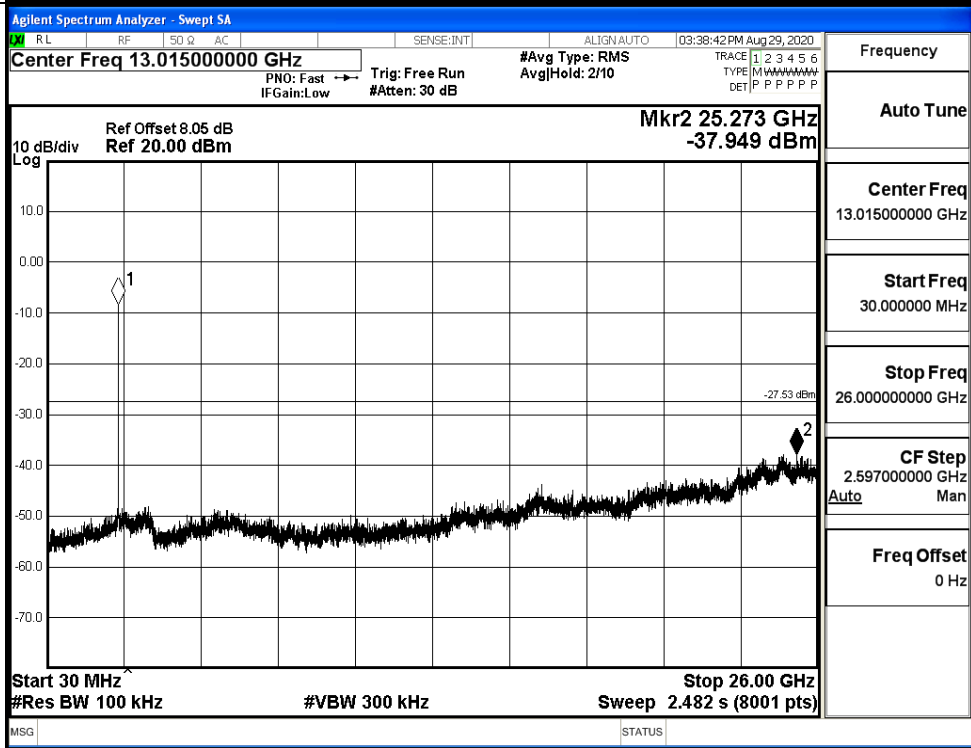
Frequency	
Auto Tune	
Center Freq	13.015000000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.000000000 GHz
CF Step	2.597000000 GHz Auto Man
Freq Offset	0 Hz

11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

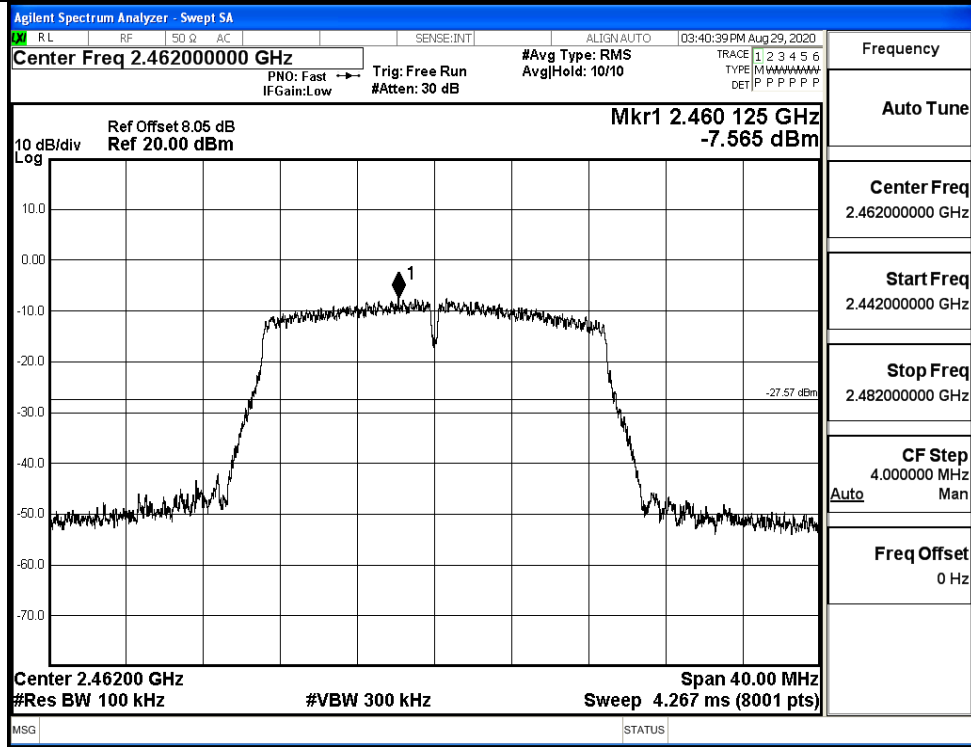


Puw/11N20  
SISO/MCH

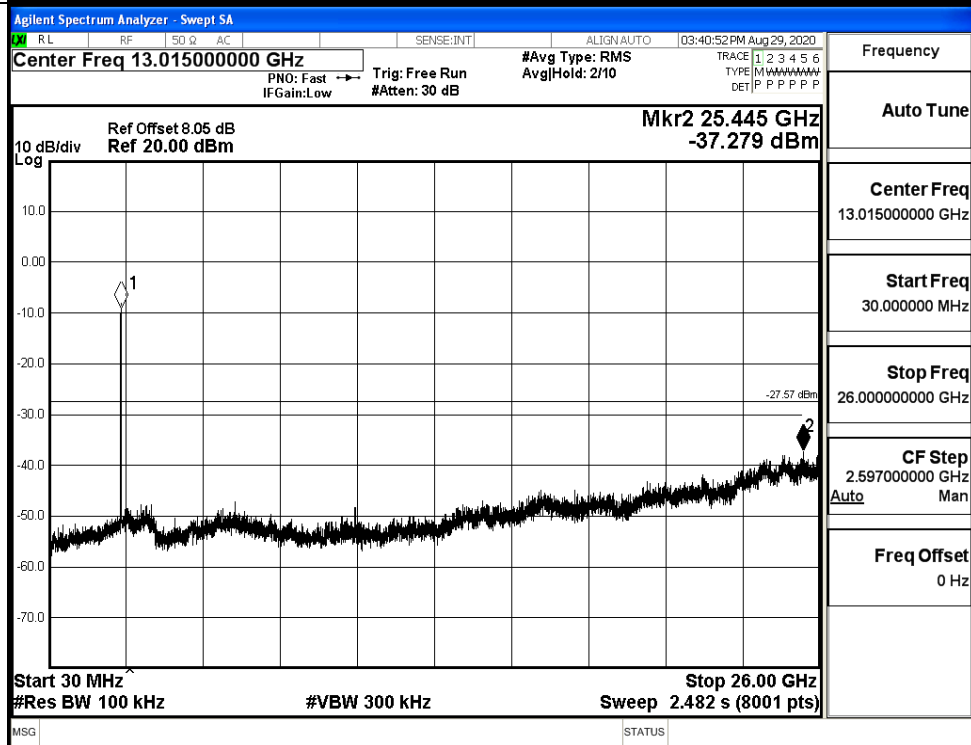


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

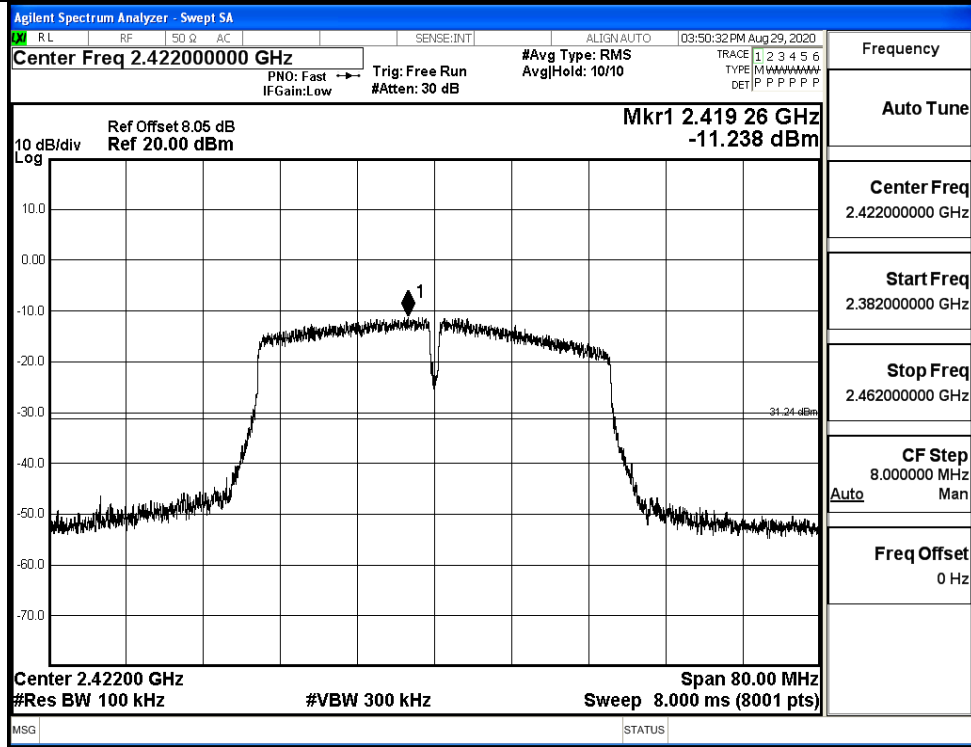


Puw/11N20  
SISO/HCH

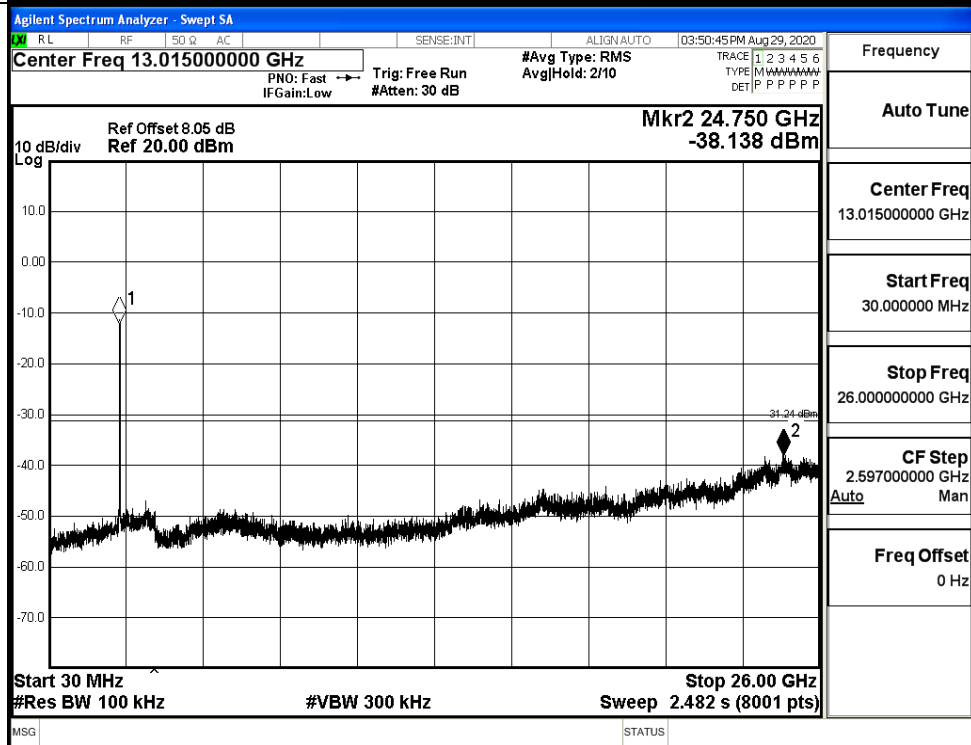


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

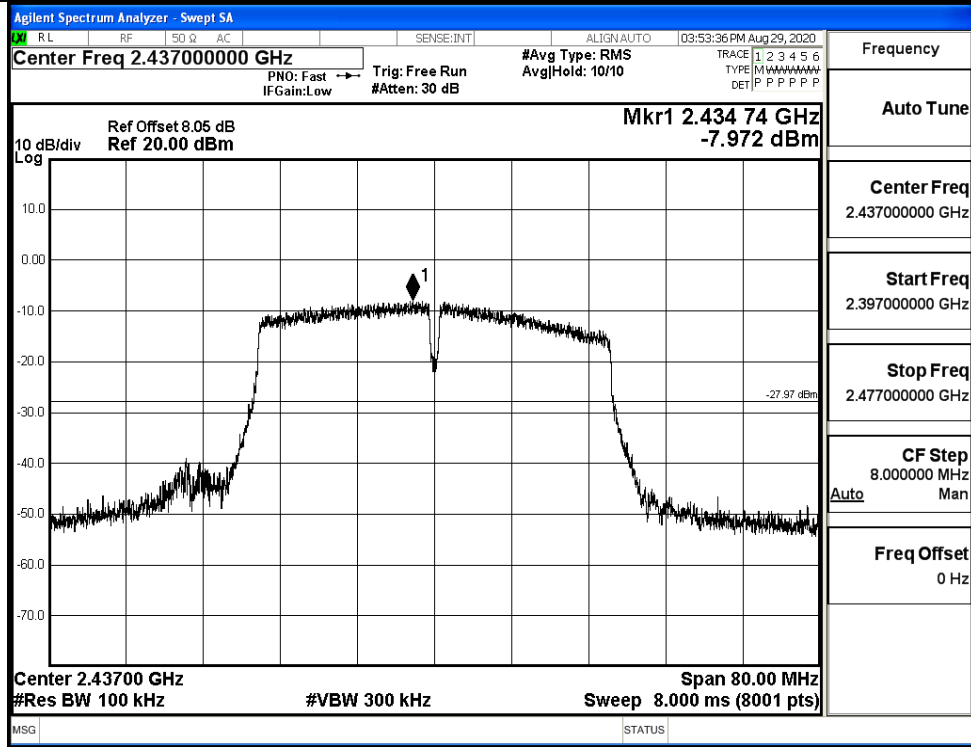


Puw/11N40  
SISO/LCH

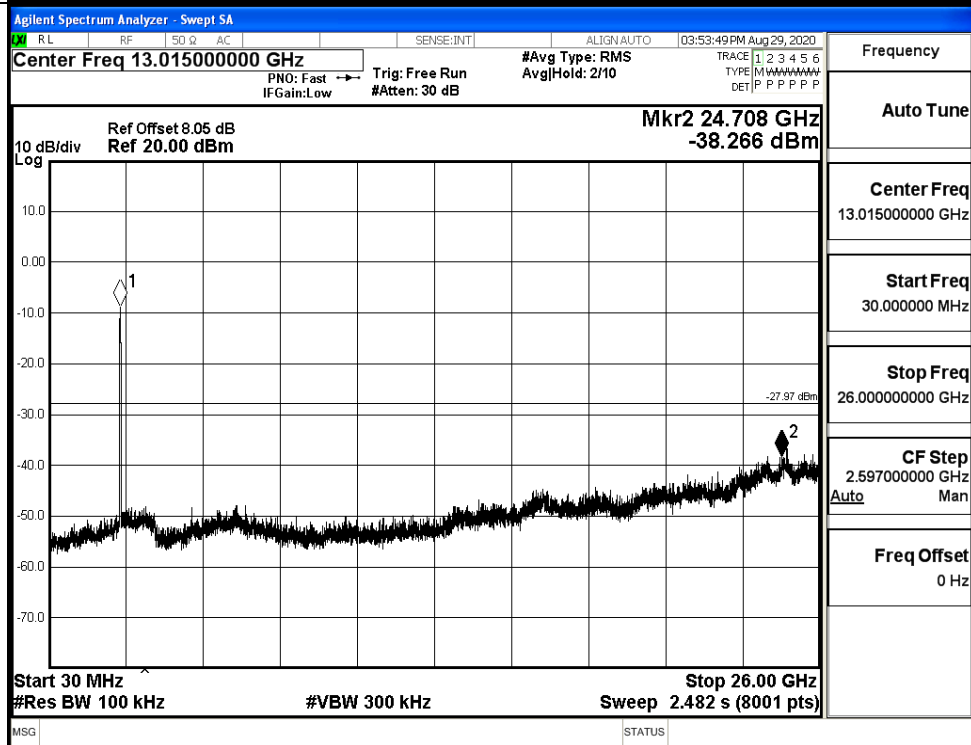


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

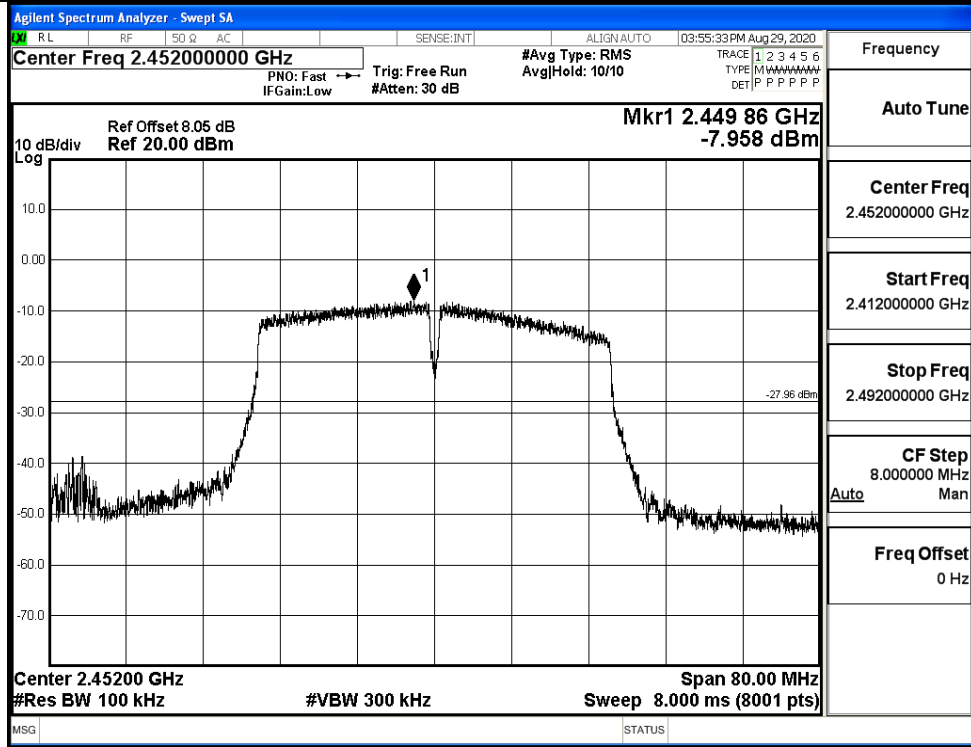


Puw/11N40  
SISO/MCH

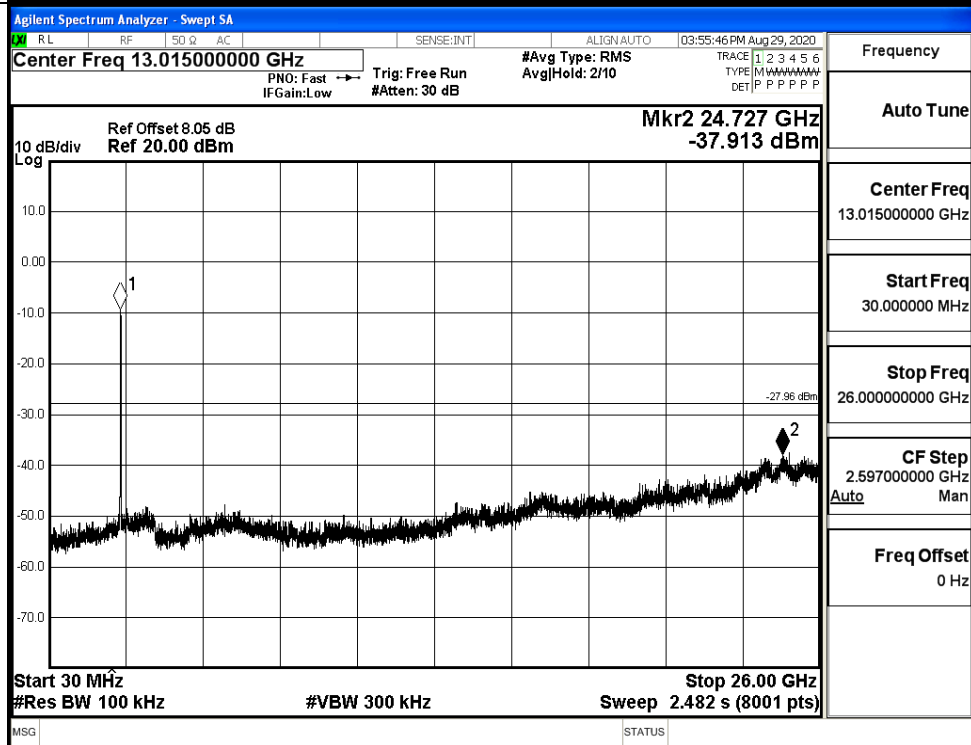


11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH

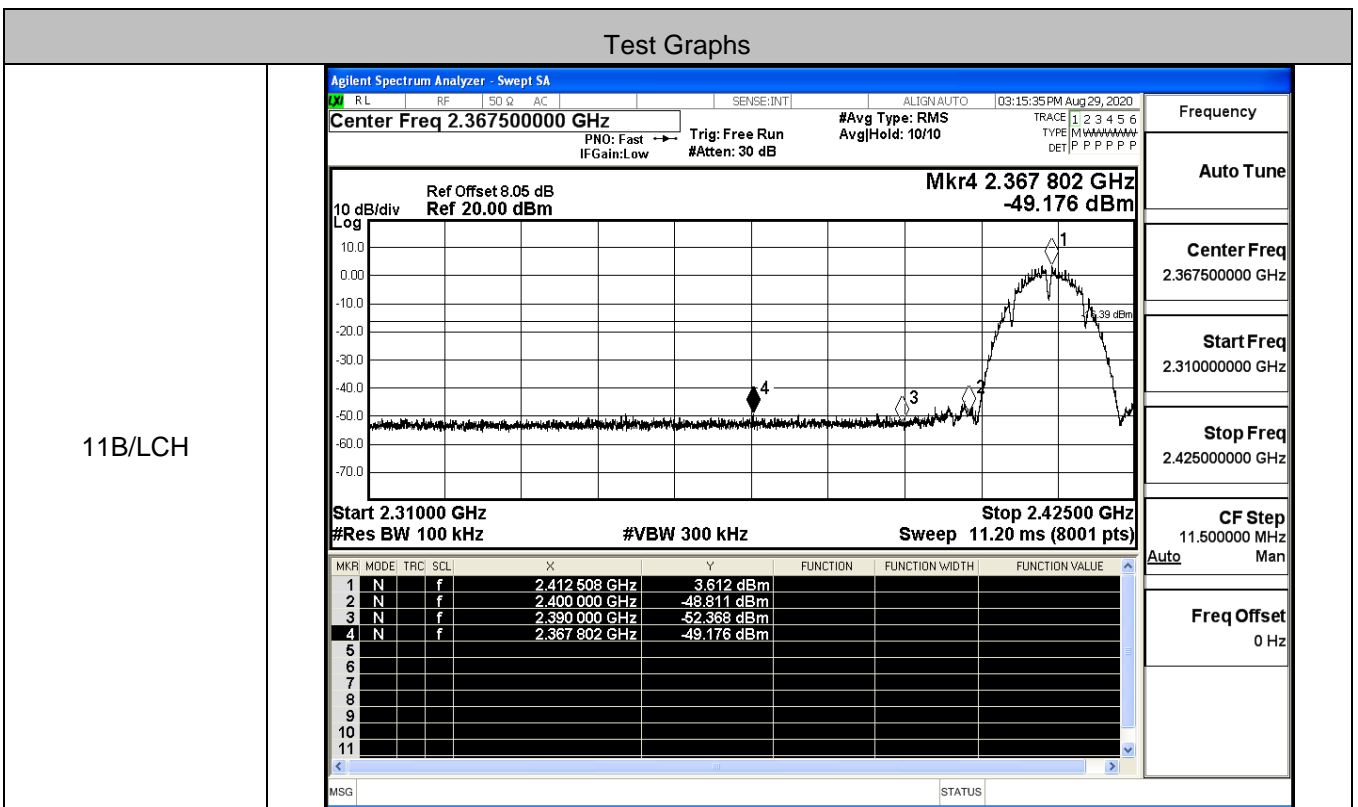


Puw/11N40  
SISO/HCH



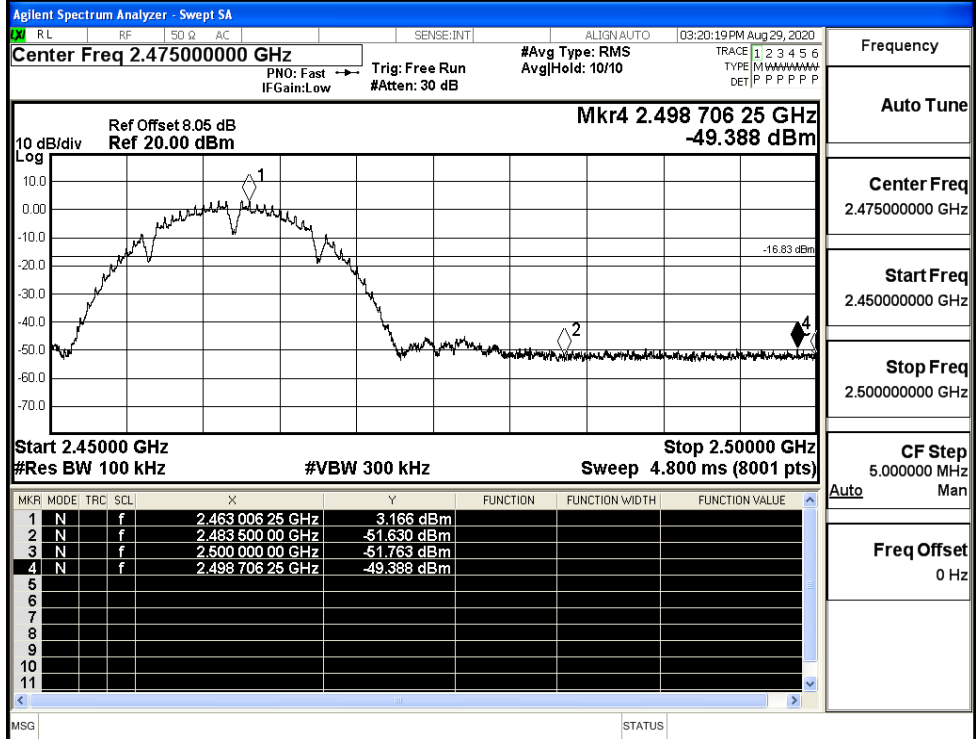
C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.612	-49.176	-16.39	PASS
	HCH	3.166	-49.388	-16.83	PASS
11G	LCH	-7.240	-49.622	-27.24	PASS
	HCH	-8.348	-48.592	-28.35	PASS
11N20SISO	LCH	-7.433	-49.709	-27.43	PASS
	HCH	-7.333	-49.058	-27.33	PASS
11N40SISO	LCH	-10.942	-48.644	-30.94	PASS
	HCH	-8.000	-49.169	-28	PASS





11B/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

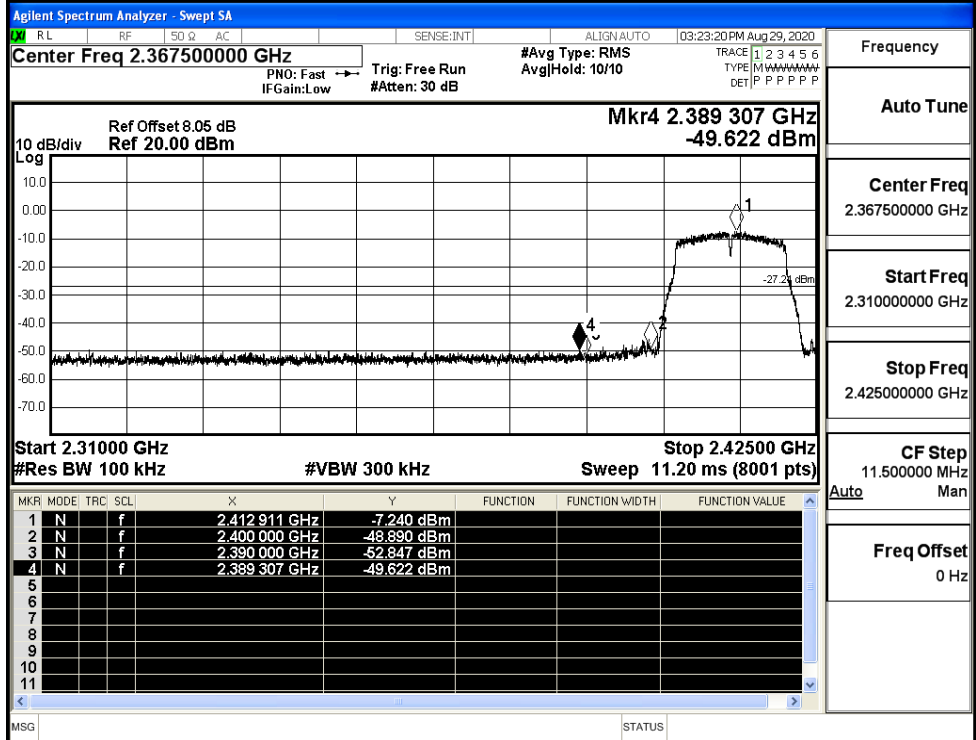
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq  
2.36750000 GHz

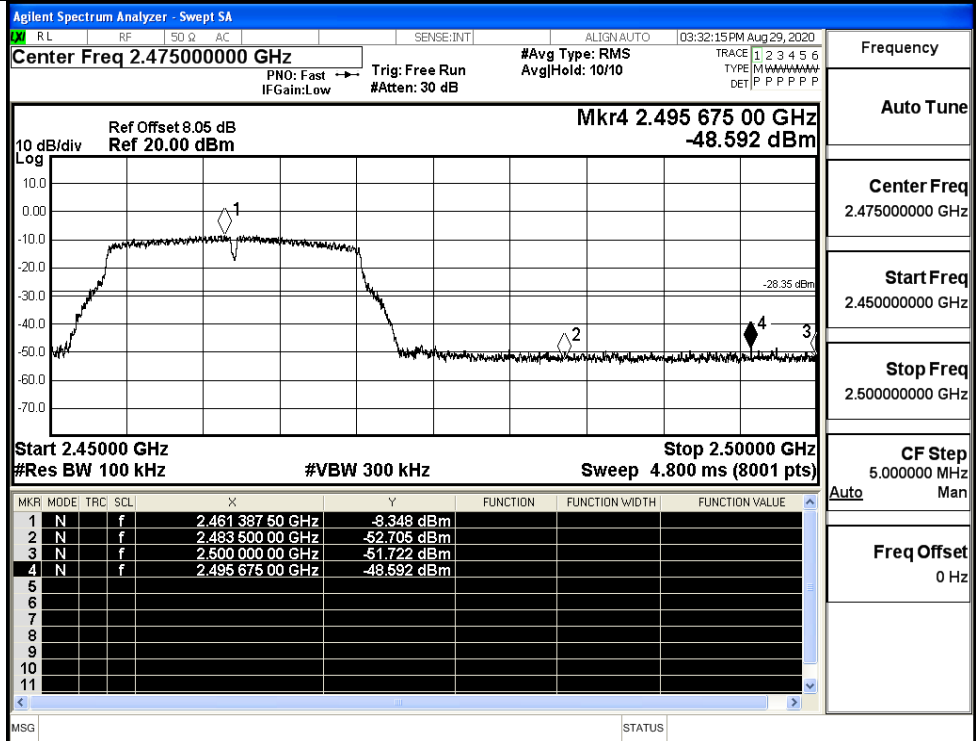
Start Freq  
2.31000000 GHz

Stop Freq  
2.42500000 GHz

CF Step  
11.500000 MHz

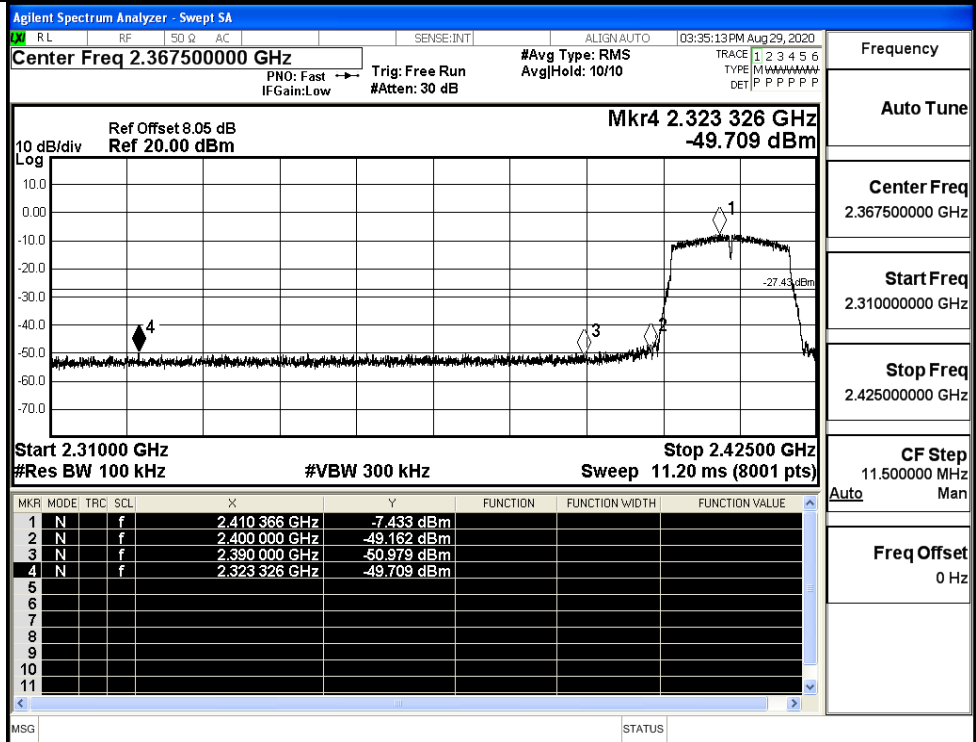
Freq Offset  
0 Hz

11G/HCH



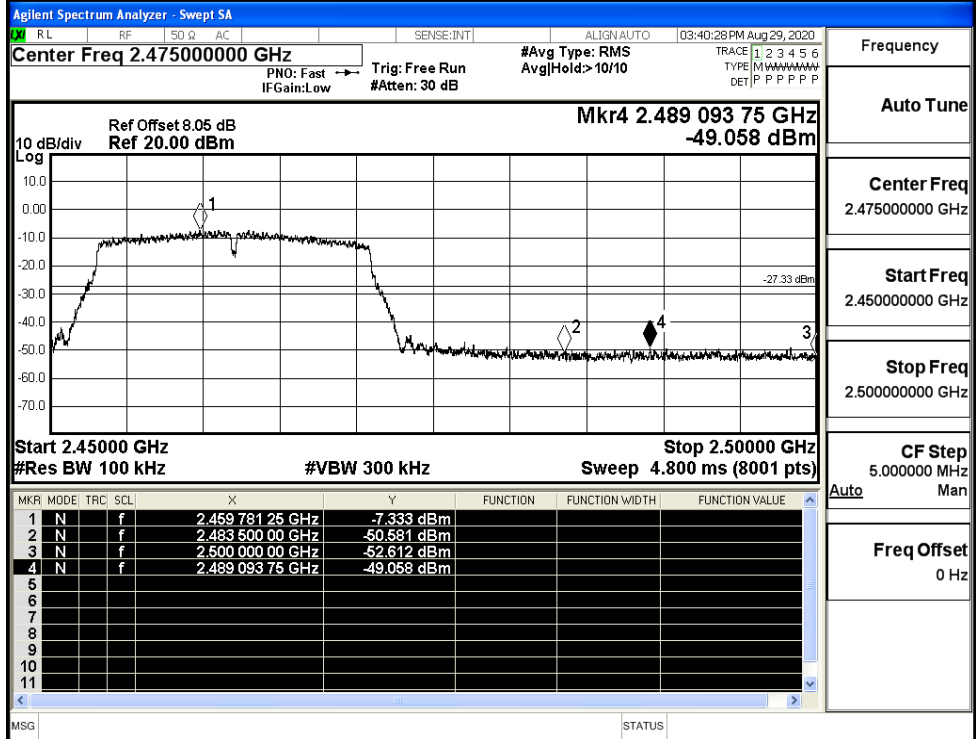
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



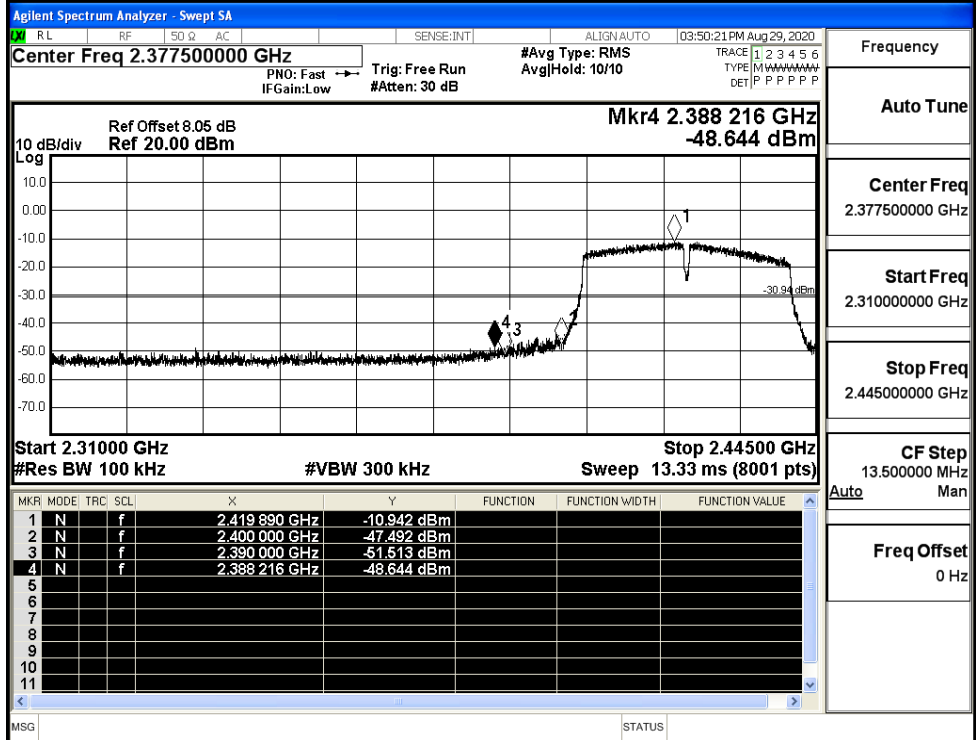
Frequency	2.36750000 GHz
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11N20SISO/HCH



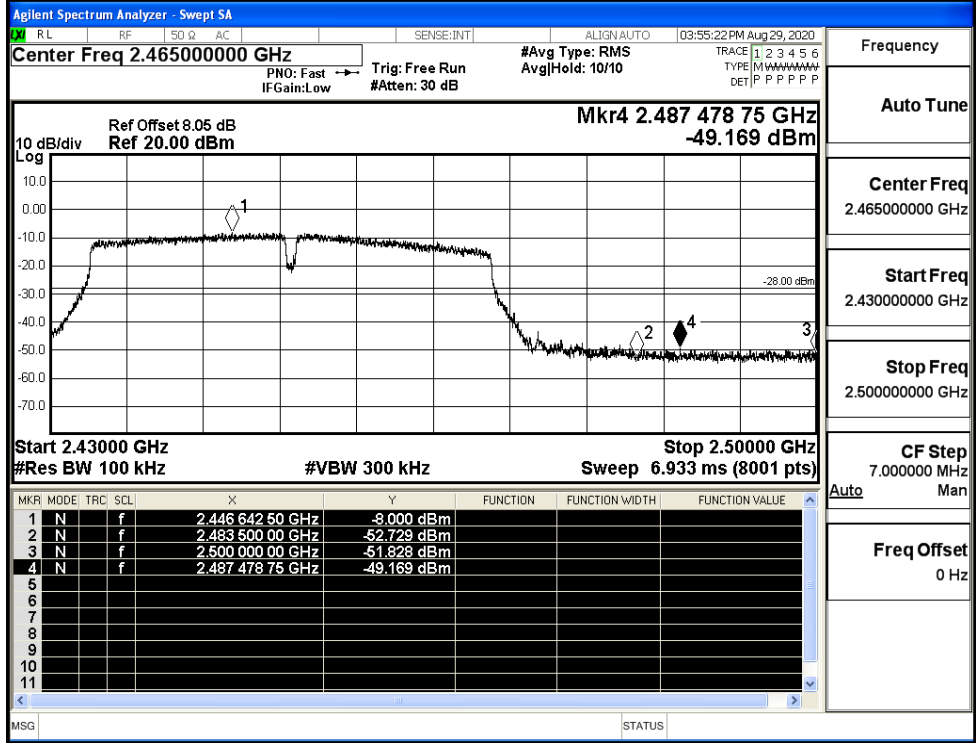
Frequency	
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N40SISO/LCH



Frequency	
Auto Tune	
Center Freq	2.37750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.44500000 GHz
CF Step	13.500000 MHz
Freq Offset	0 Hz

11N40SISO/HCH

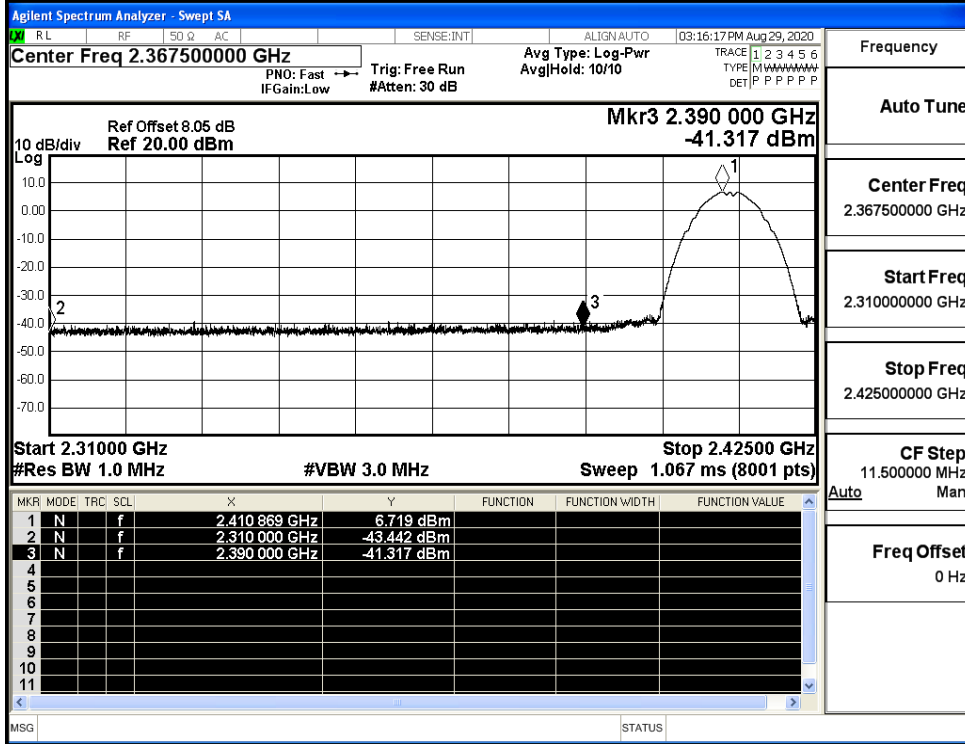


### C.7 Restrict-band band-edge measurements

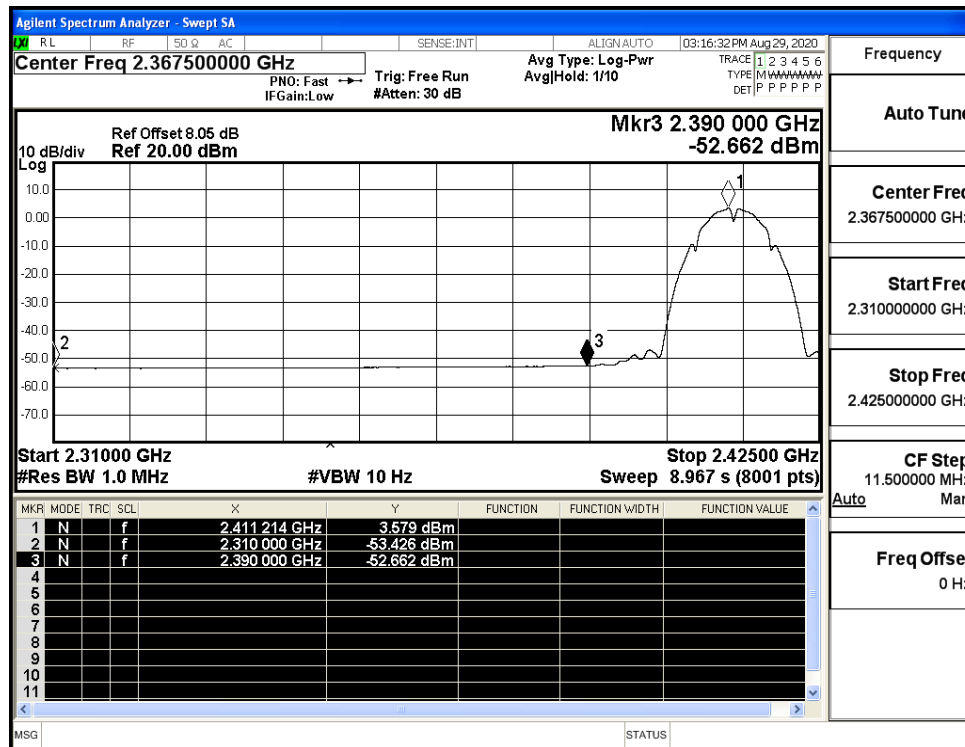
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.44	2.0	0	53.79	PEAK	74	PASS
	2412	Ant1	2310.0	-53.43	2.0	0	43.80	AV	54	PASS
	2412	Ant1	2390.0	-41.32	2.0	0	55.91	PEAK	74	PASS
	2412	Ant1	2390.0	-52.66	2.0	0	44.57	AV	54	PASS
	2462	Ant1	2483.5	-41.72	2.0	0	55.51	PEAK	74	PASS
	2462	Ant1	2483.5	-52.49	2.0	0	44.74	AV	54	PASS
	2462	Ant1	2500.0	-41.82	2.0	0	55.41	PEAK	74	PASS
	2462	Ant1	2500.0	-52.34	2.0	0	44.89	AV	54	PASS
11G	2412	Ant1	2310.0	-41.55	2.0	0	55.68	PEAK	74	PASS
	2412	Ant1	2310.0	-53.42	2.0	0	43.81	AV	54	PASS
	2412	Ant1	2390.0	-42.62	2.0	0	54.61	PEAK	74	PASS
	2412	Ant1	2390.0	-52.53	2.0	0	44.70	AV	54	PASS
	2462	Ant1	2483.5	-41.64	2.0	0	55.59	PEAK	74	PASS
	2462	Ant1	2483.5	-52.45	2.0	0	44.78	AV	54	PASS
	2462	Ant1	2500.0	-41.57	2.0	0	55.66	PEAK	74	PASS
	2462	Ant1	2500.0	-52.37	2.0	0	44.86	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.78	2.0	0	53.45	PEAK	74	PASS
	2412	Ant1	2310.0	-53.42	2.0	0	43.81	AV	54	PASS
	2412	Ant1	2390.0	-42.57	2.0	0	54.66	PEAK	74	PASS
	2412	Ant1	2390.0	-52.51	2.0	0	44.72	AV	54	PASS
	2462	Ant1	2483.5	-41.37	2.0	0	55.86	PEAK	74	PASS
	2462	Ant1	2483.5	-52.37	2.0	0	44.86	AV	54	PASS
	2462	Ant1	2500.0	-41.75	2.0	0	55.48	PEAK	74	PASS
	2462	Ant1	2500.0	-52.32	2.0	0	44.91	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.01	2.0	0	55.22	PEAK	74	PASS
	2422	Ant1	2310.0	-53.44	2.0	0	43.79	AV	54	PASS

	2422	Ant1	2390.0	-39.12	2.0	0	58.11	PEAK	74	PASS
	2422	Ant1	2390.0	-51.00	2.0	0	46.23	AV	54	PASS
	2452	Ant1	2483.5	-41.52	2.0	0	55.71	PEAK	74	PASS
	2452	Ant1	2483.5	-51.78	2.0	0	45.45	AV	54	PASS
	2452	Ant1	2500.0	-41.94	2.0	0	55.29	PEAK	74	PASS
	2452	Ant1	2500.0	-52.32	2.0	0	44.91	AV	54	PASS

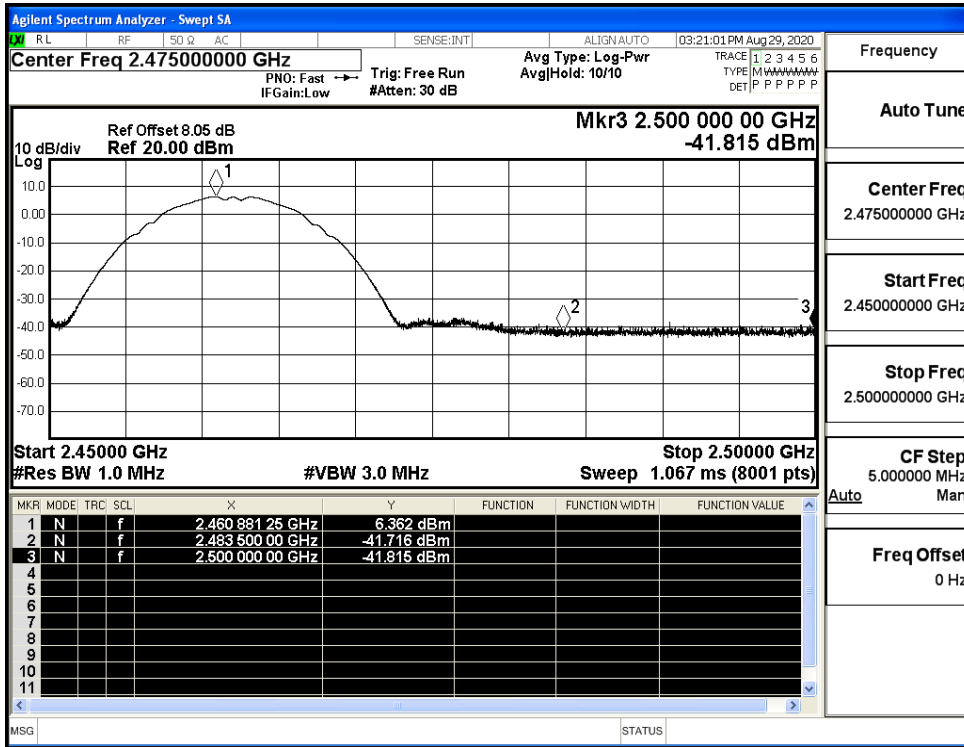
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



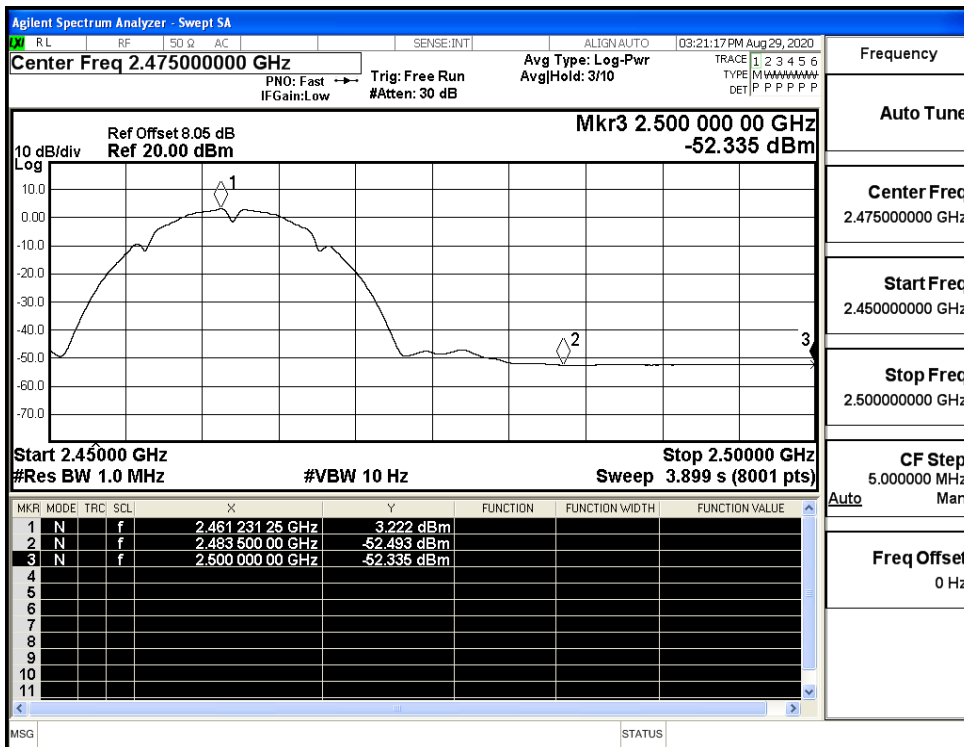
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



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

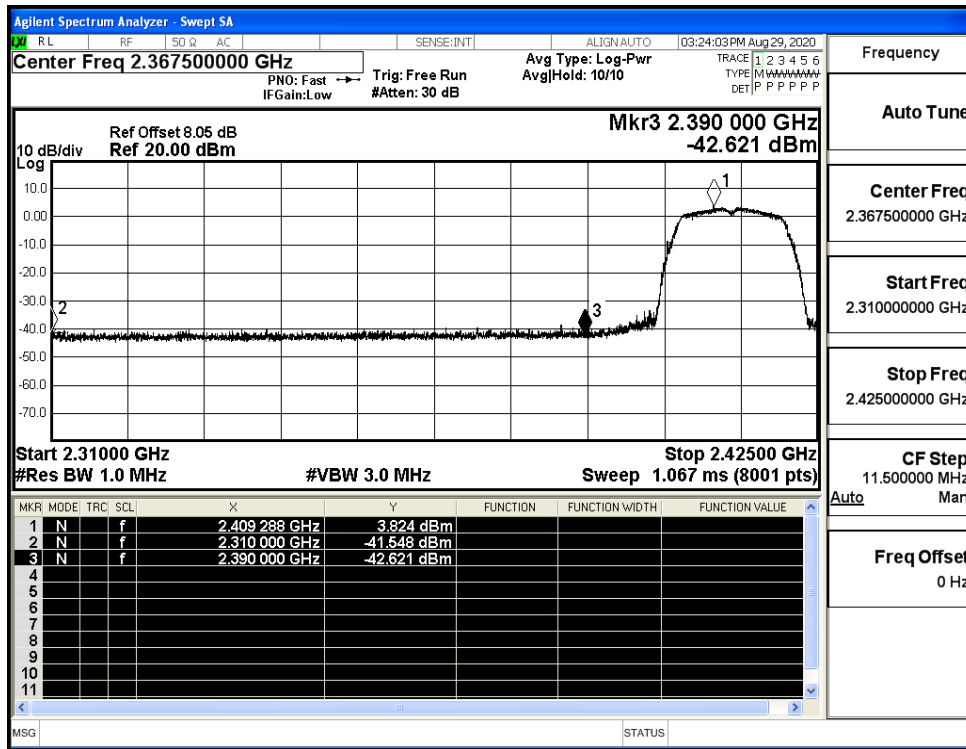


Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV

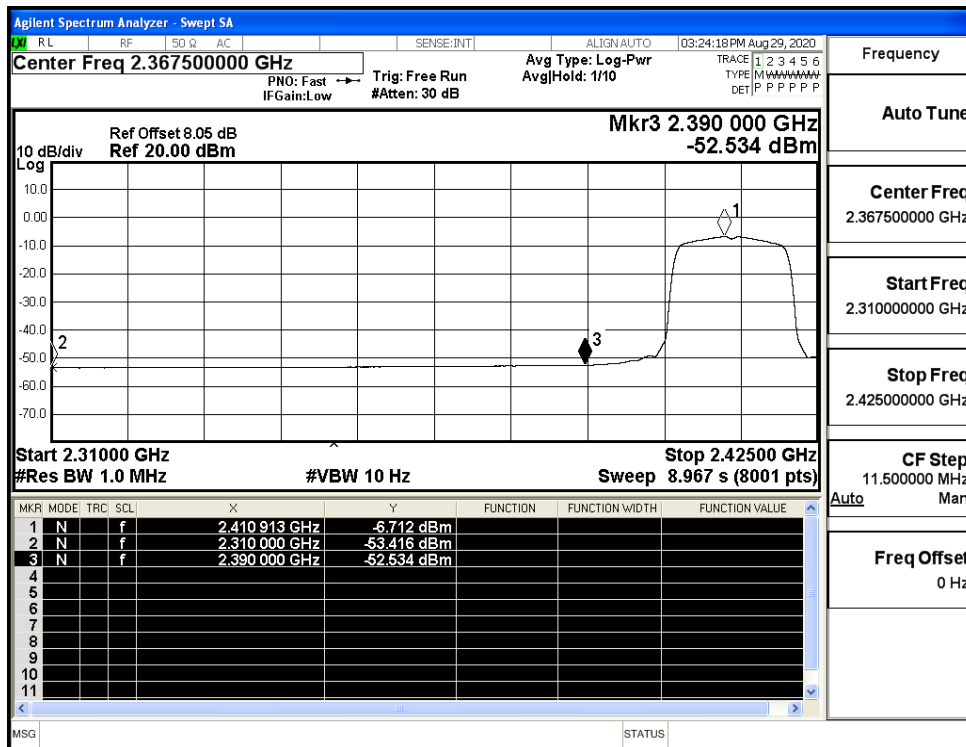




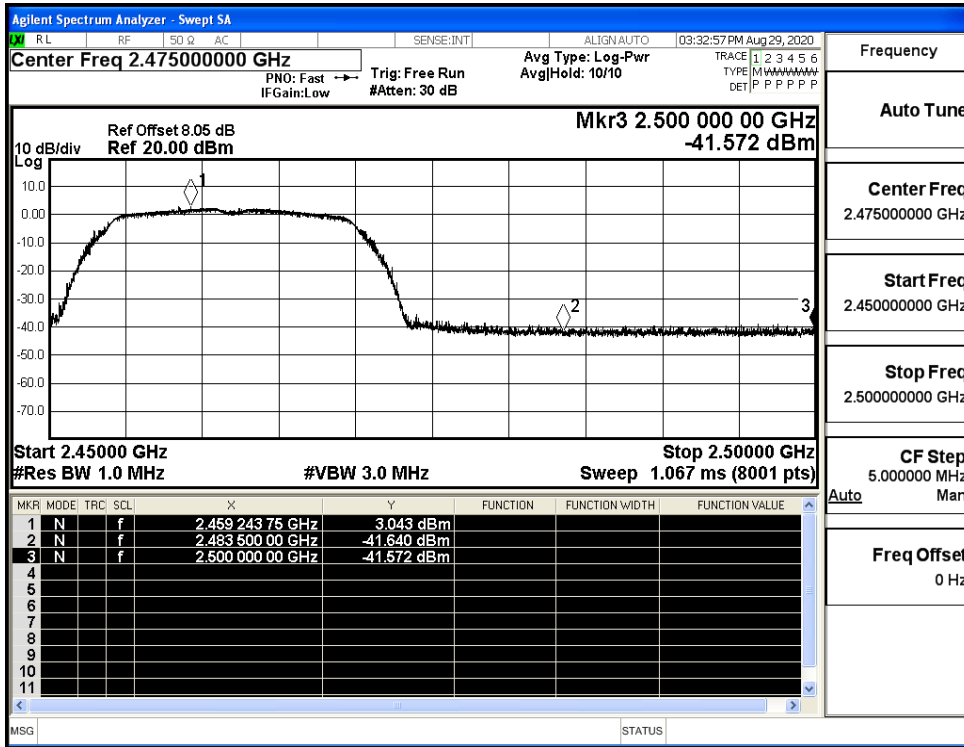
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



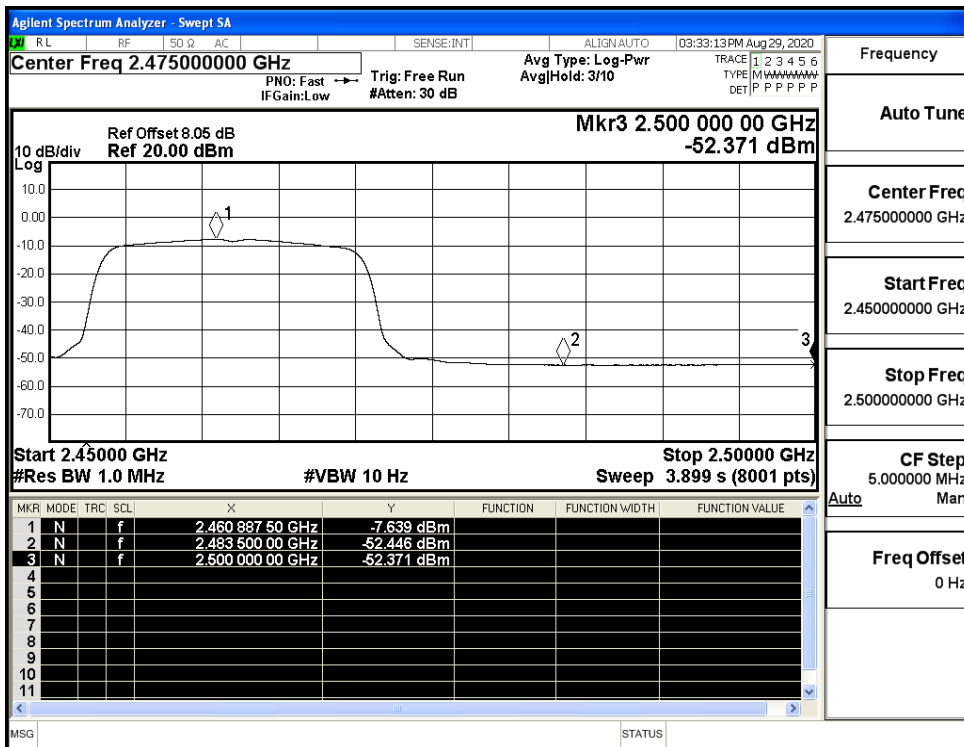
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



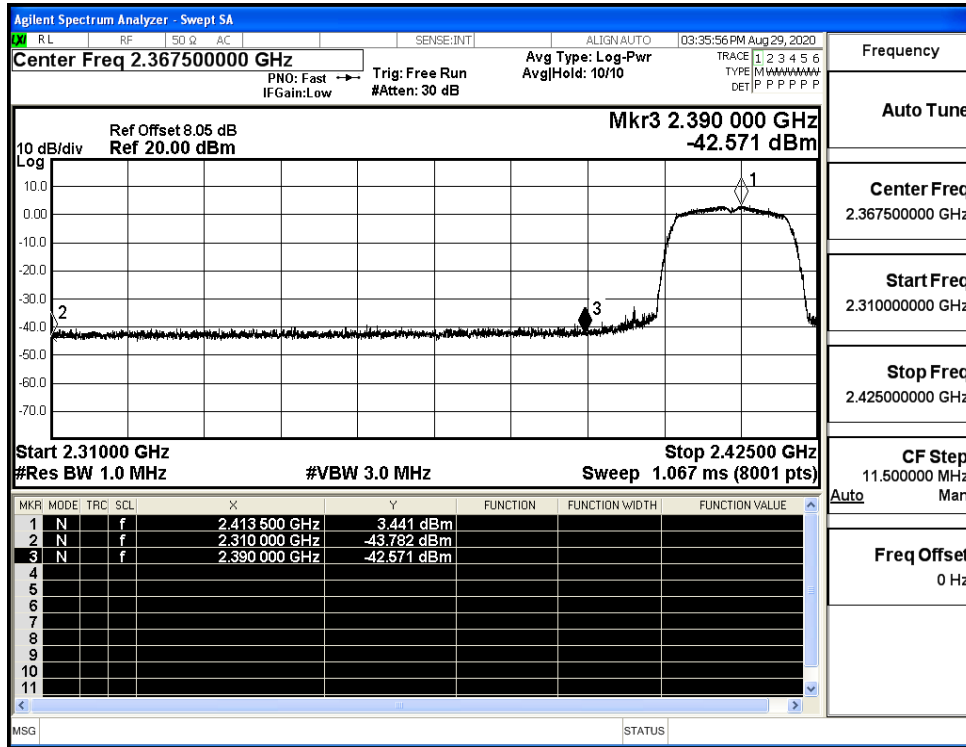
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



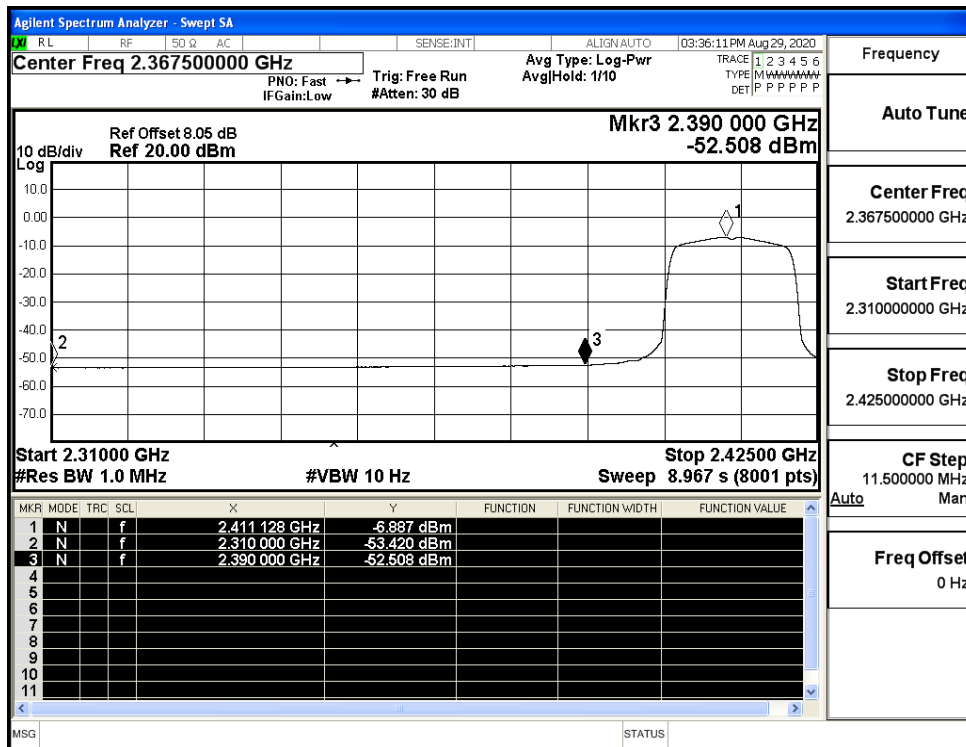
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



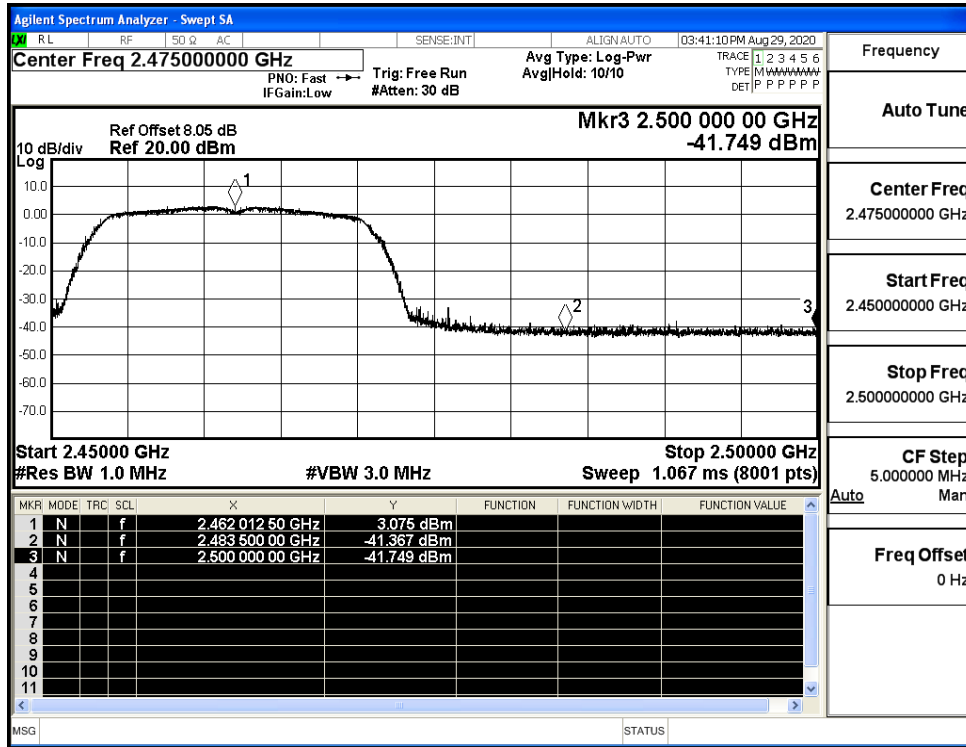
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



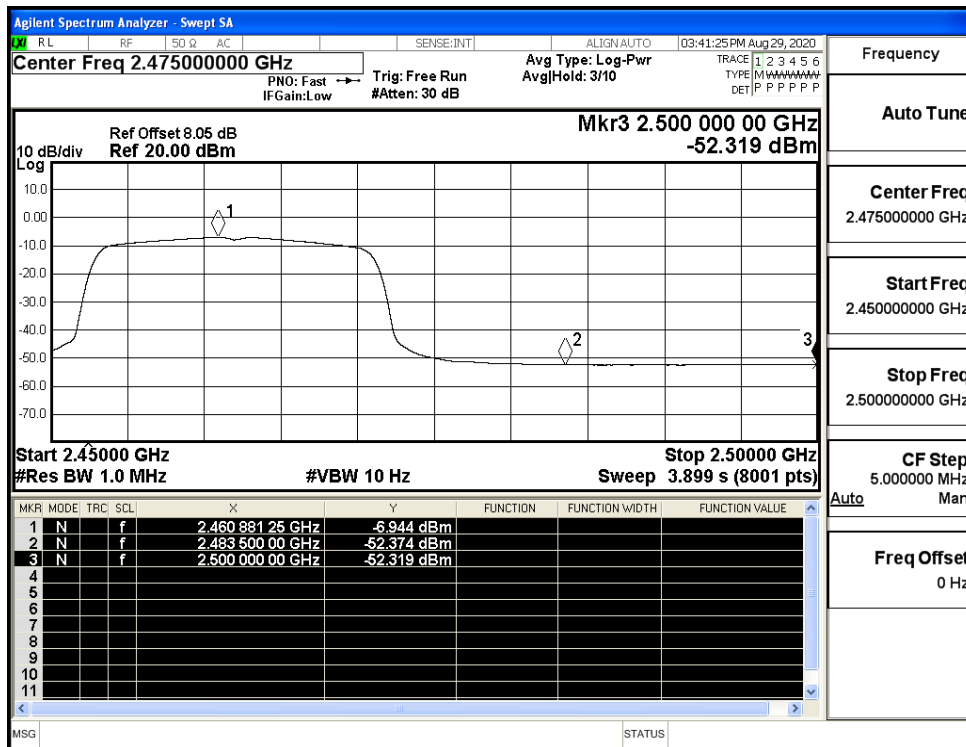
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



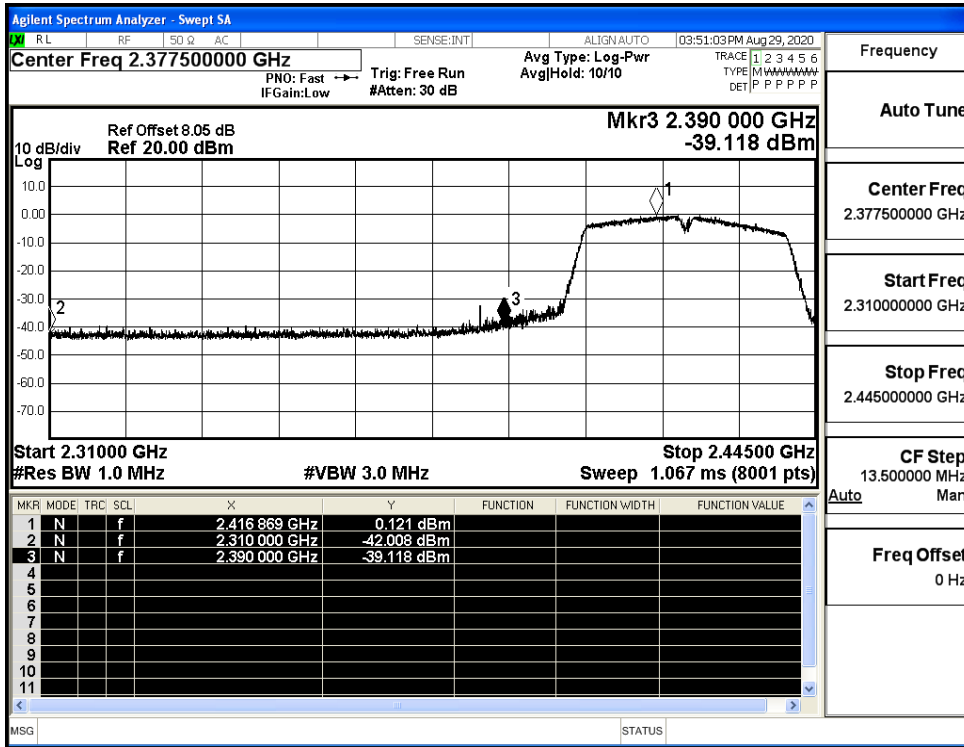
Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



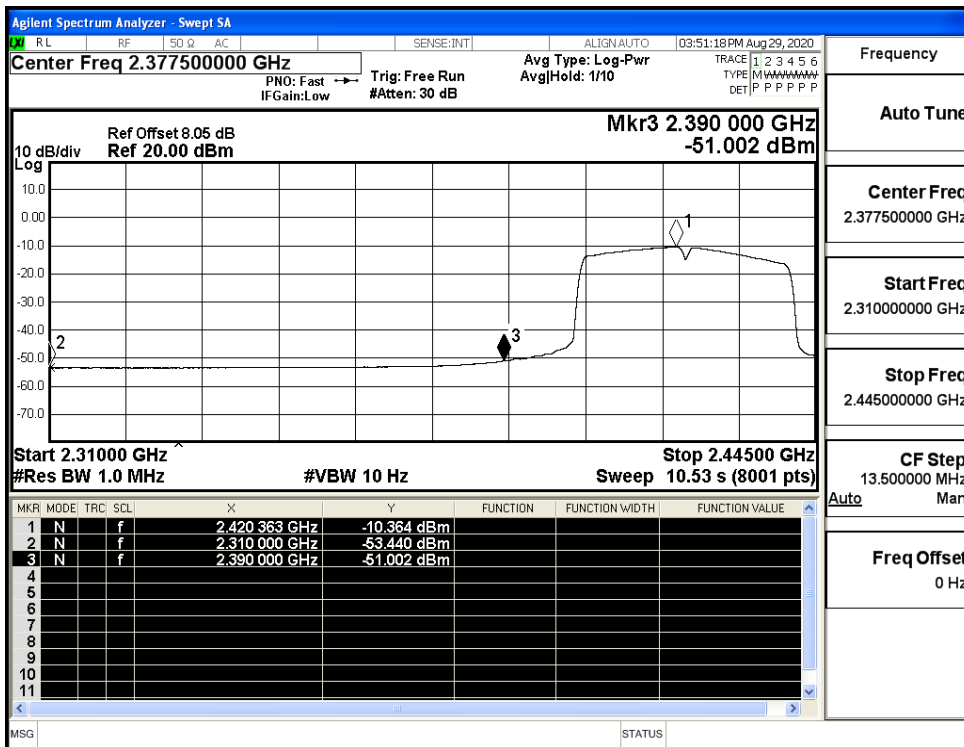
Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV



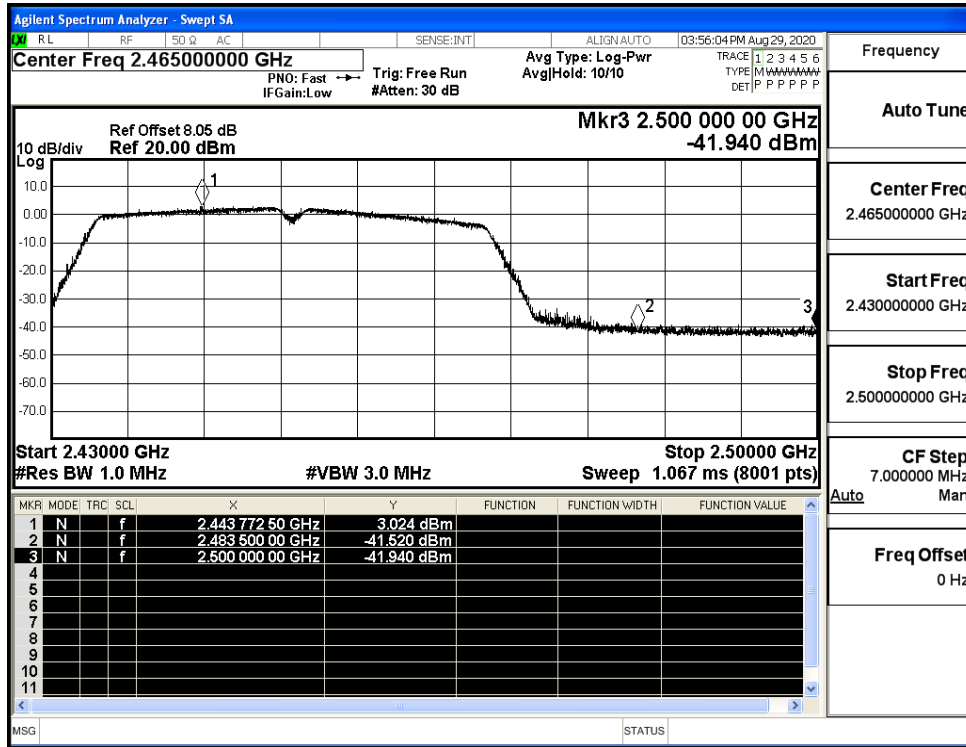
Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



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

