

## Appendix A

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

**Product Name: 4K dash camera**

**Trade Mark: TYPE S**

**Test Model: BT530024**

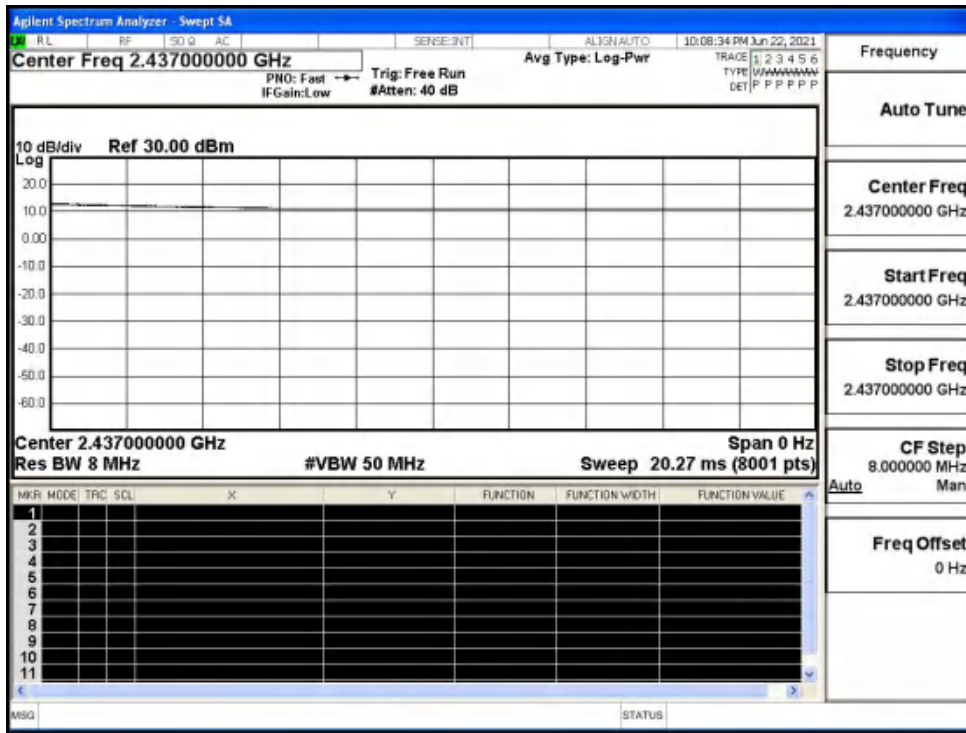
#### Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

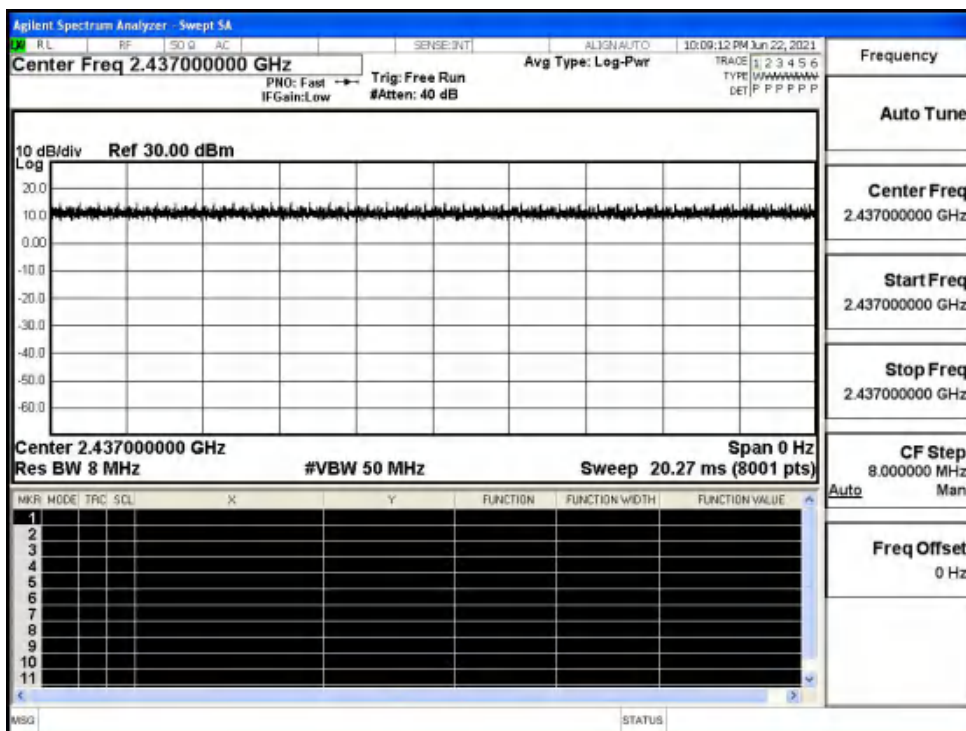
#### A.1 Duty Cycle

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

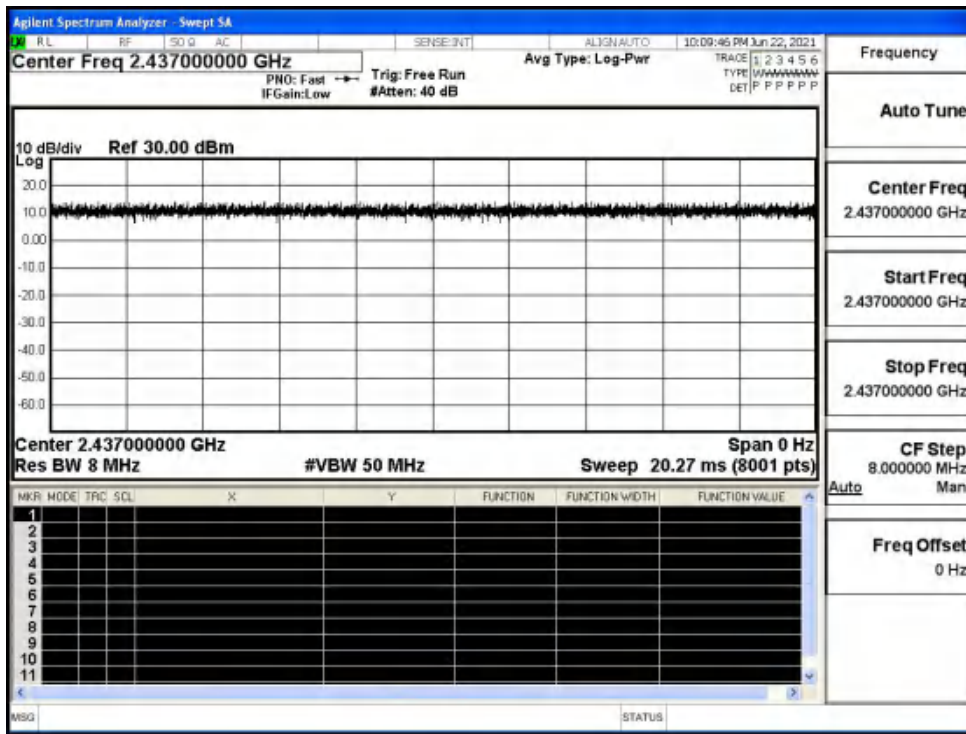
Duty Cycle\_11B\_2437\_Ant1



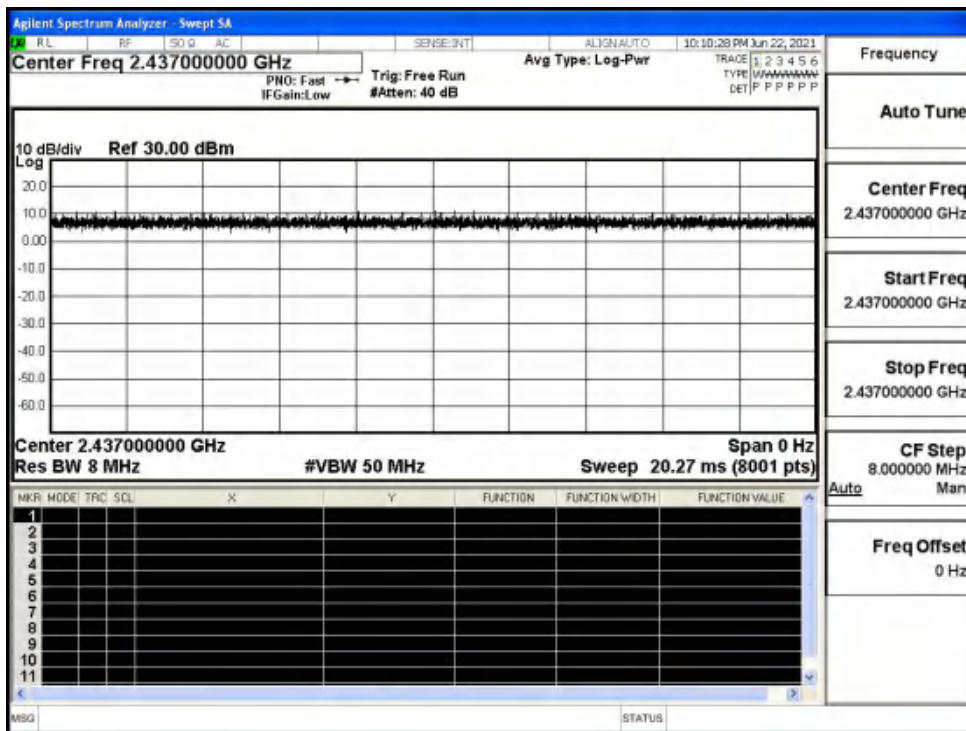
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



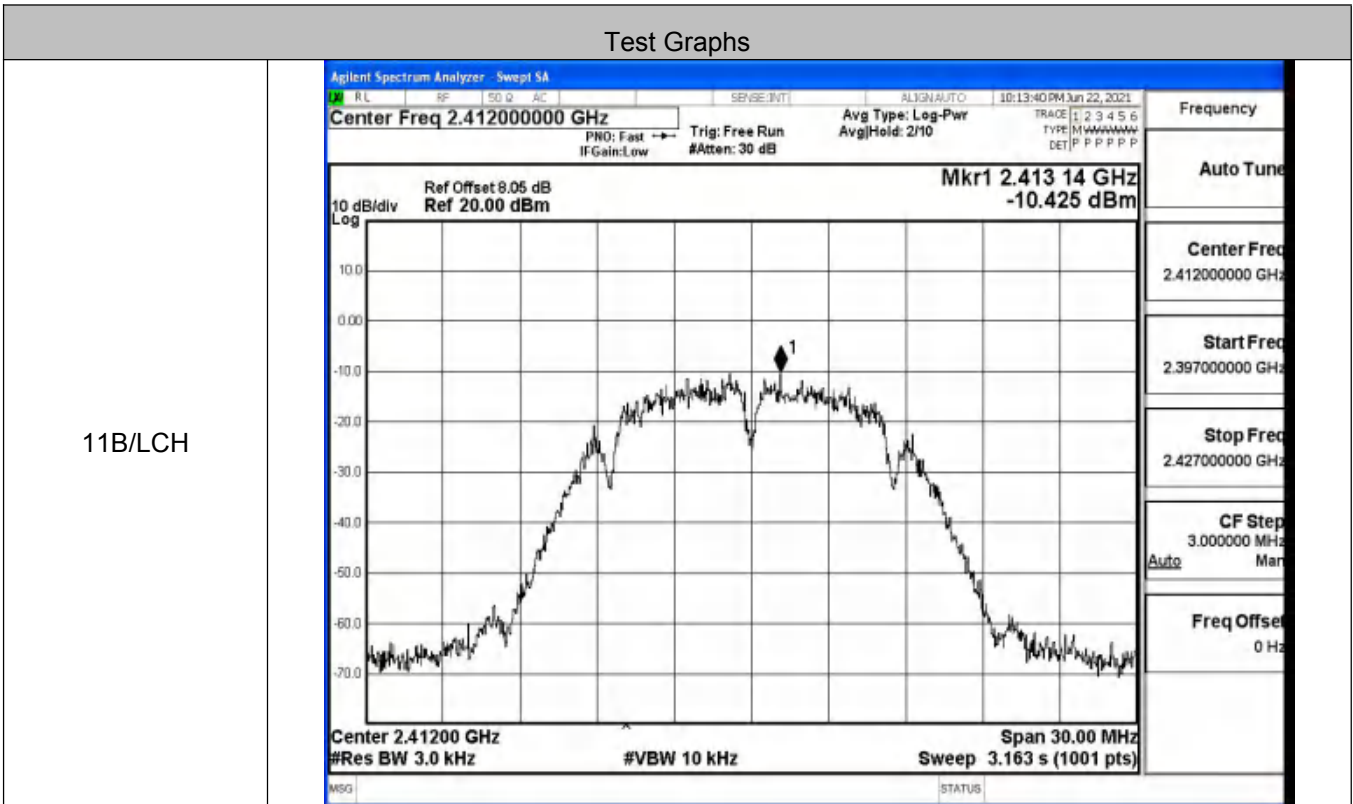
**A.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.47	30	PASS
	MCH	15.42	30	PASS
	HCH	15.68	30	PASS
11G	LCH	15.59	30	PASS
	MCH	15.74	30	PASS
	HCH	15.25	30	PASS
11N20SISO	LCH	15.66	30	PASS
	MCH	15.84	30	PASS
	HCH	15.22	30	PASS
11N40SISO	LCH	15.94	30	PASS
	MCH	15.99	30	PASS
	HCH	15.93	30	PASS

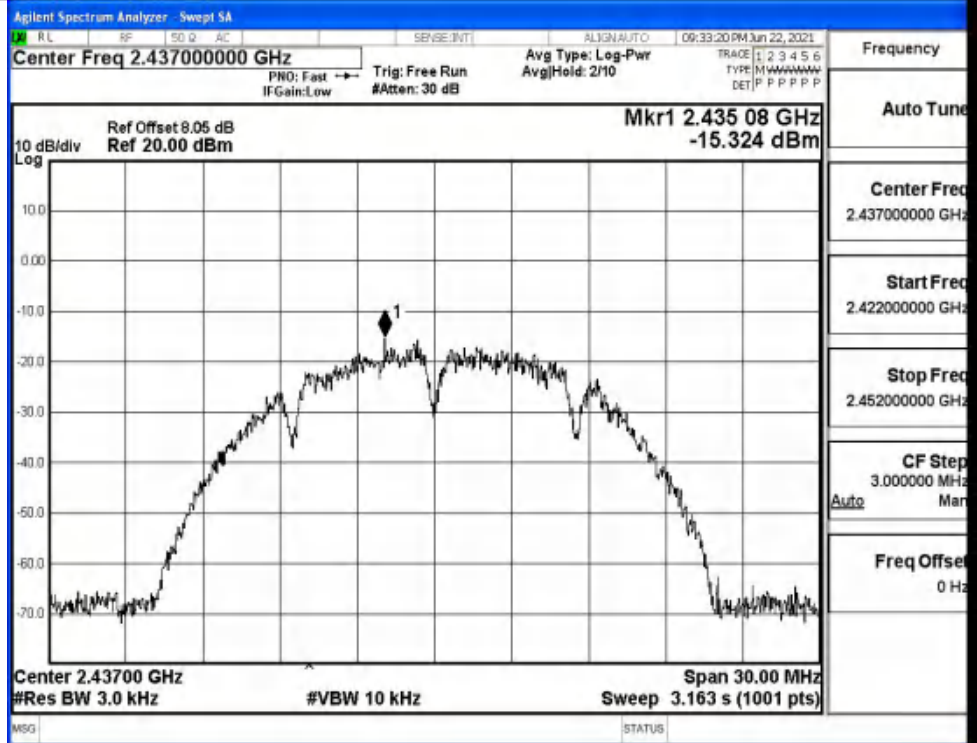
### A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.425	8	PASS
	MCH	-15.324	8	PASS
	HCH	-14.672	8	PASS
11G	LCH	-18.082	8	PASS
	MCH	-18.201	8	PASS
	HCH	-18.307	8	PASS
11N20SISO	LCH	-18.312	8	PASS
	MCH	-17.760	8	PASS
	HCH	-16.578	8	PASS
11N40SISO	LCH	-20.943	8	PASS
	MCH	-20.914	8	PASS
	HCH	-20.436	8	PASS

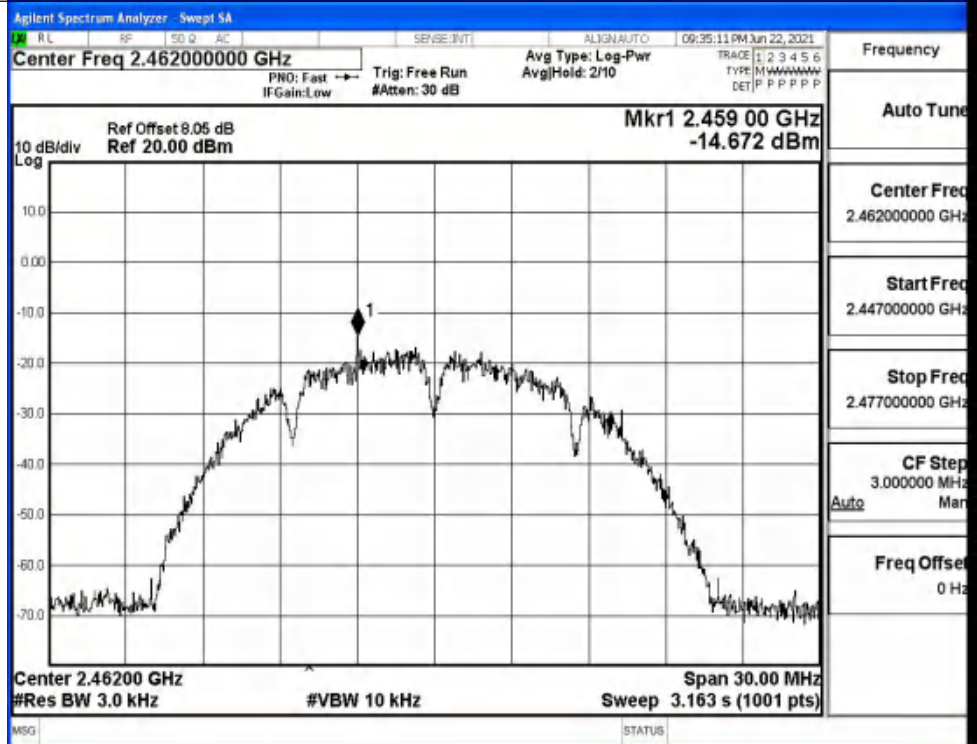
#### Test Graphs



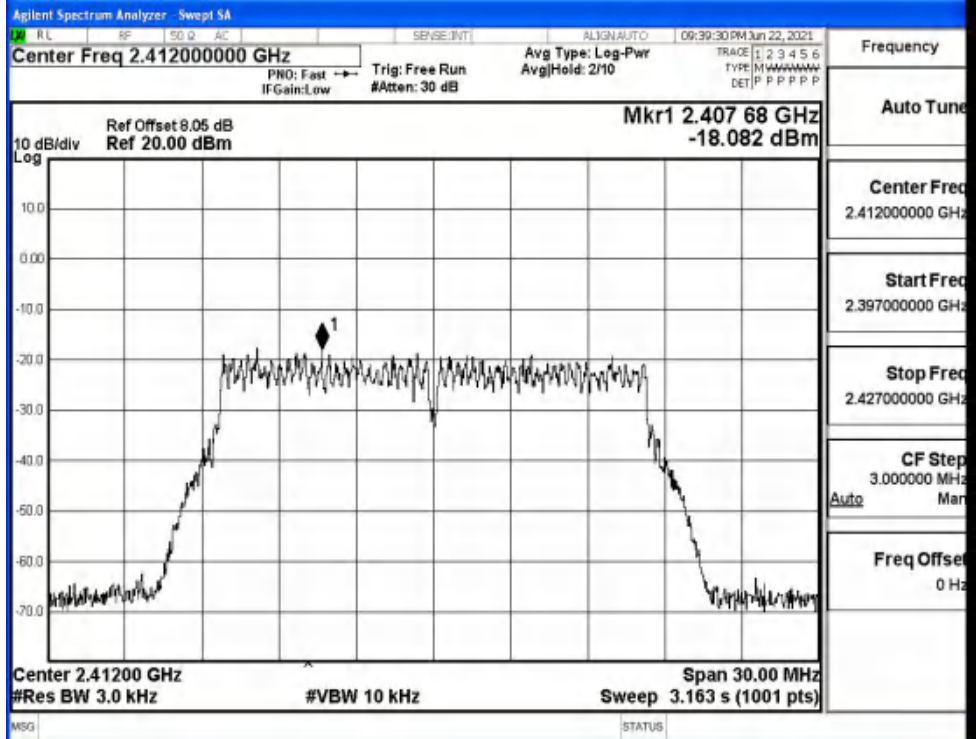
11B/MCH



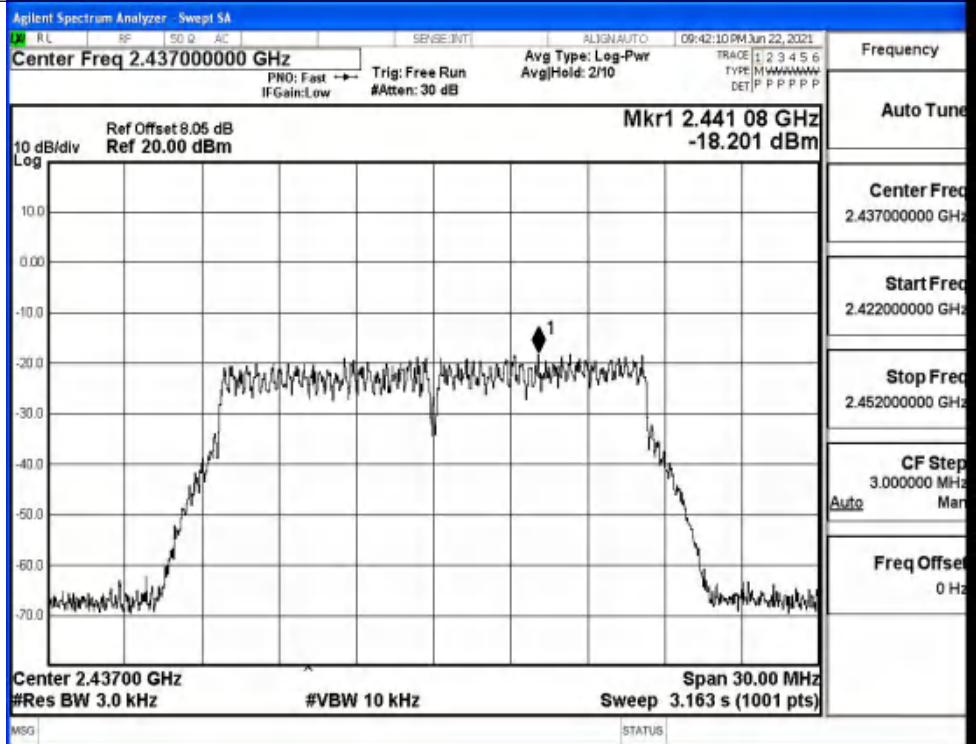
11B/HCH



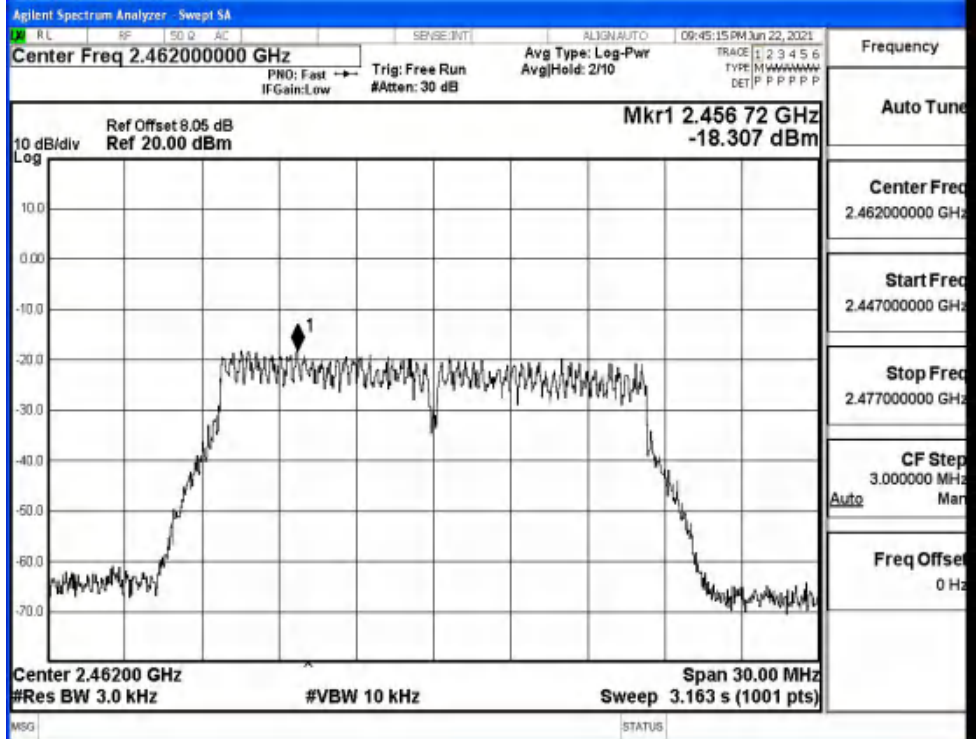
11G/LCH



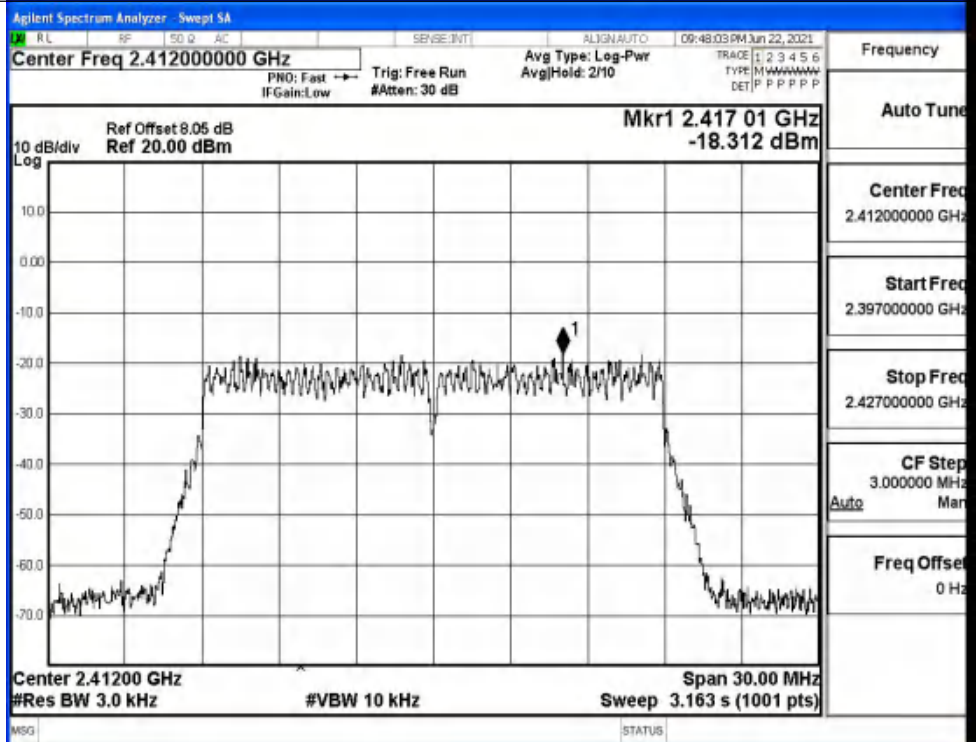
11G/MCH



11G/HCH

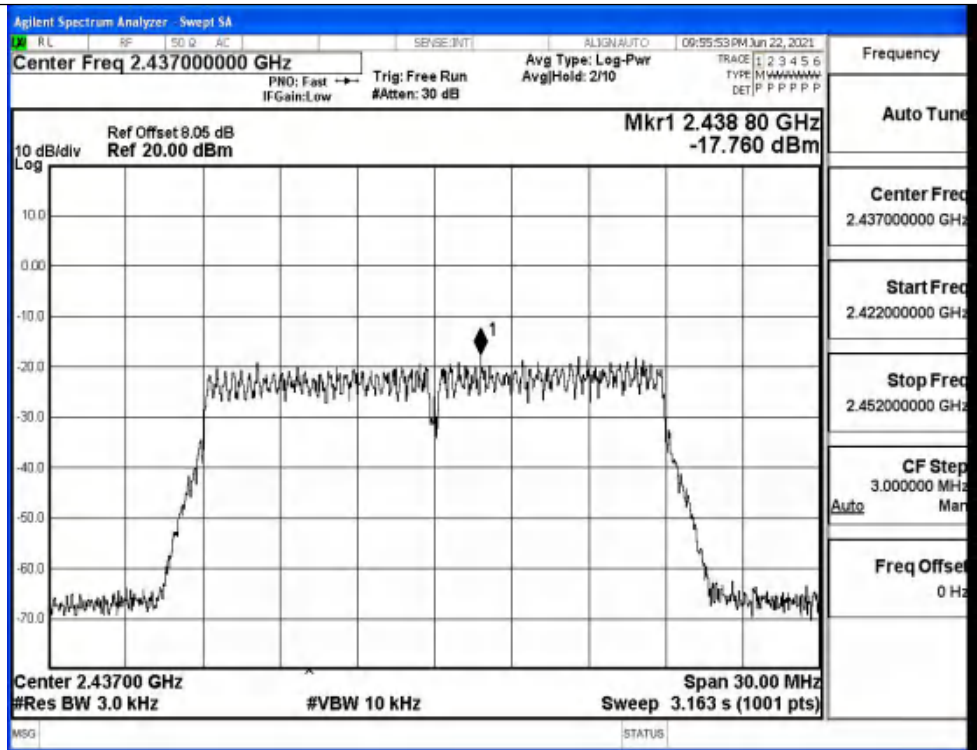


11N20SISO/LCH

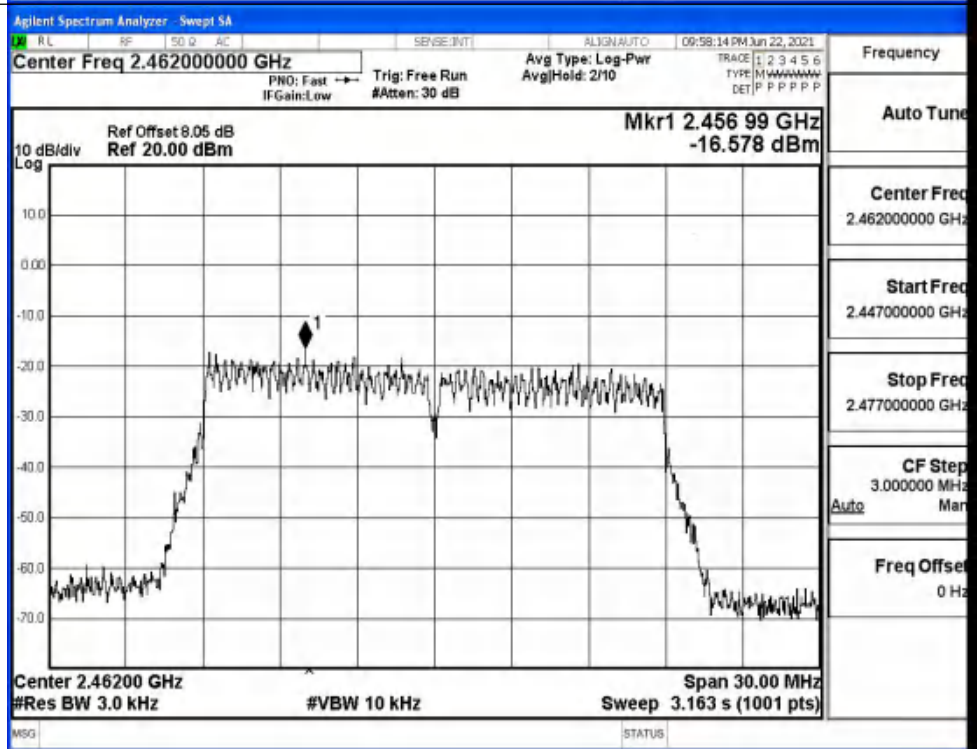




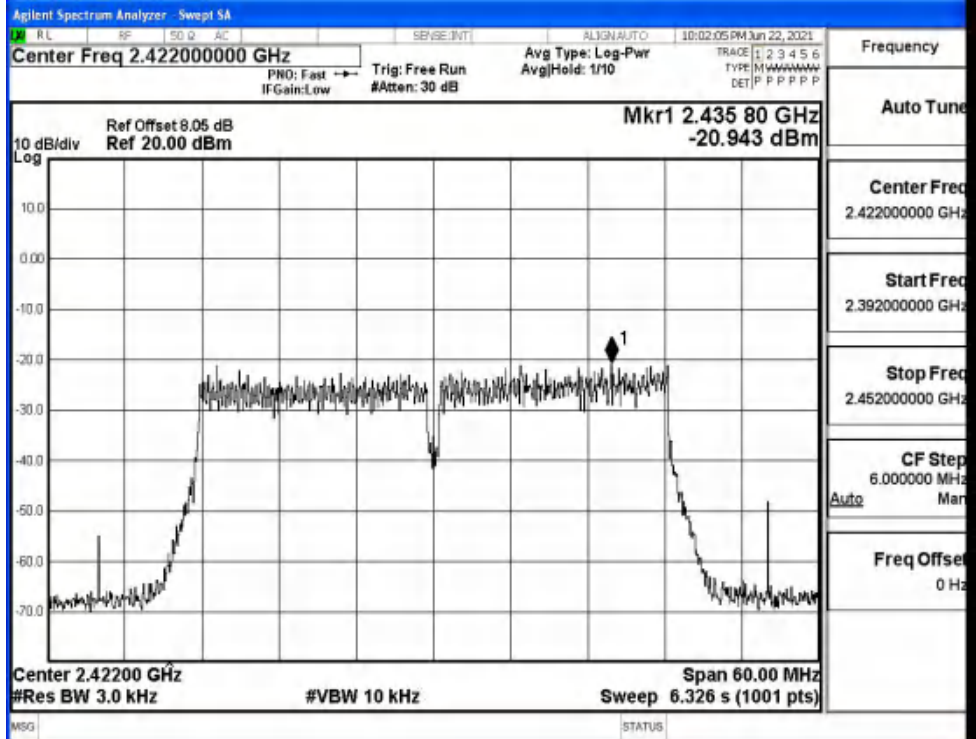
11N20SISO/MCH



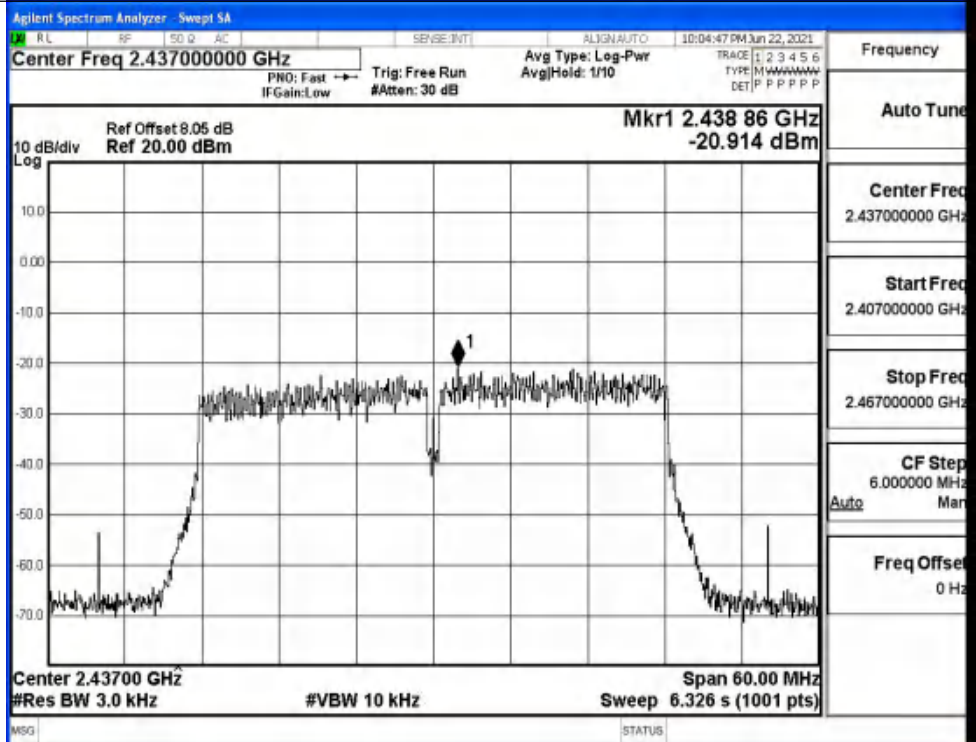
11N20SISO/HCH



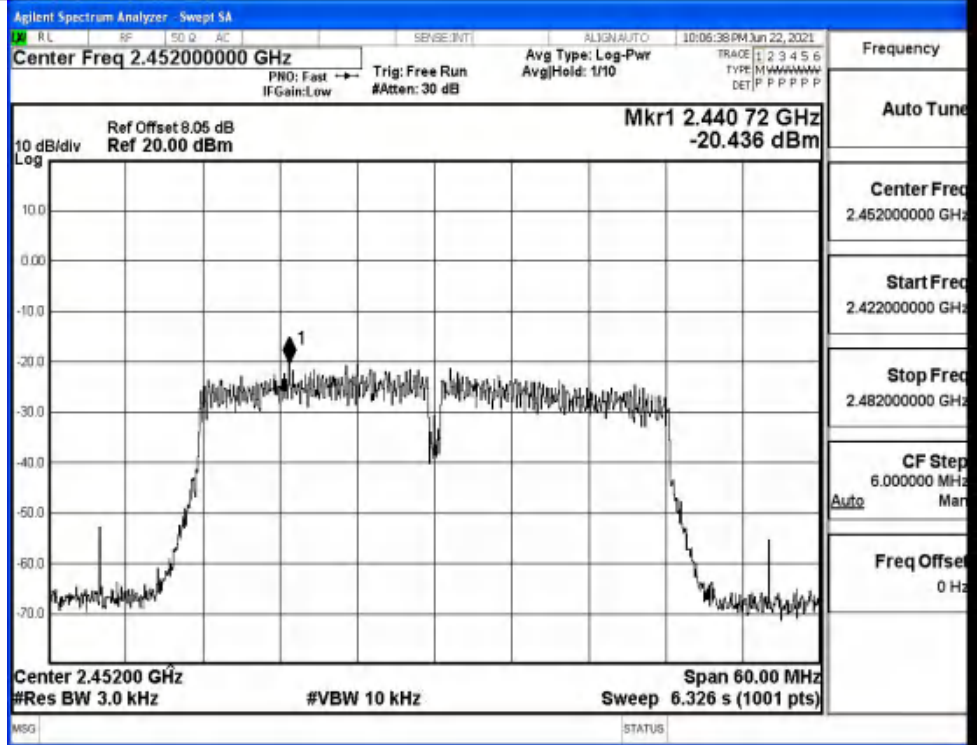
11N40SISO/LCH



11N40SISO/MCH



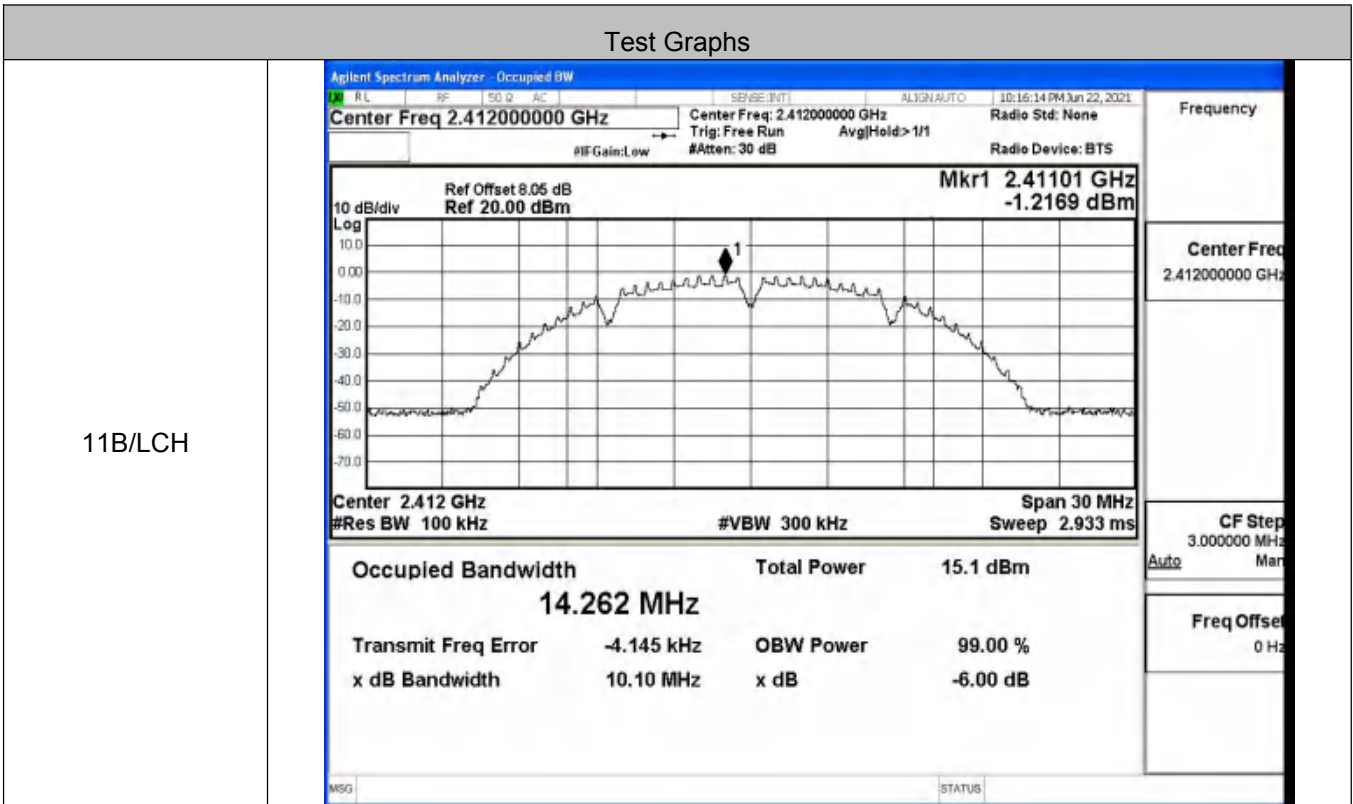
11N40SISO/HCH



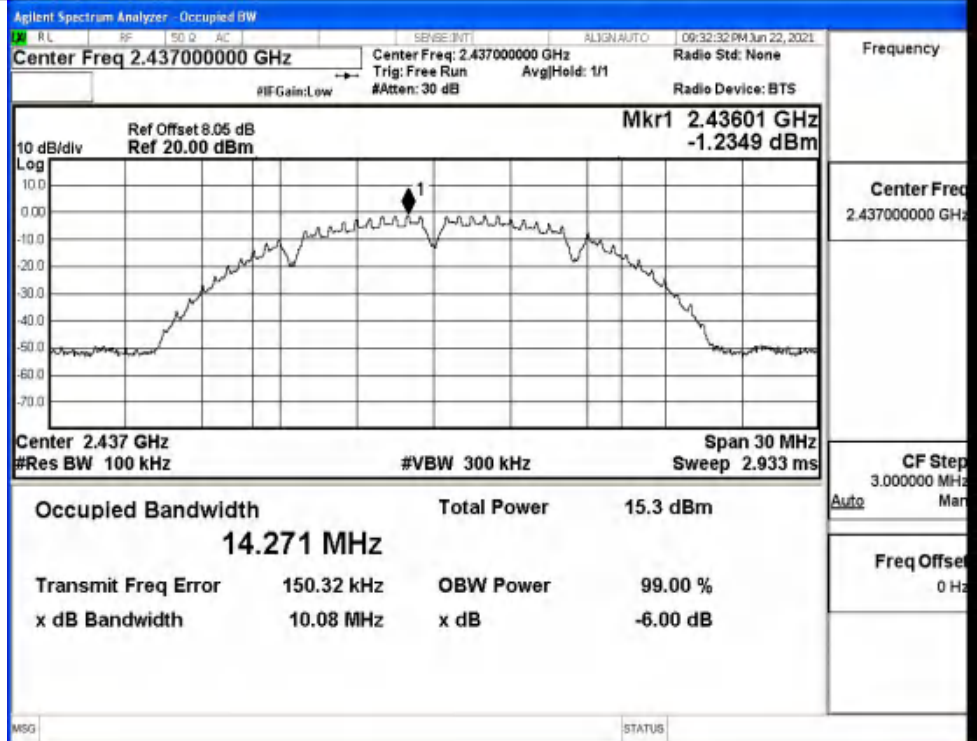
**A.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.10	≥0.5	PASS
	MCH	10.08	≥0.5	PASS
	HCH	9.623	≥0.5	PASS
11G	LCH	16.44	≥0.5	PASS
	MCH	16.10	≥0.5	PASS
	HCH	15.77	≥0.5	PASS
11N20SISO	LCH	17.62	≥0.5	PASS
	MCH	17.36	≥0.5	PASS
	HCH	16.39	≥0.5	PASS
11N40SISO	LCH	35.81	≥0.5	PASS
	MCH	35.53	≥0.5	PASS
	HCH	35.19	≥0.5	PASS

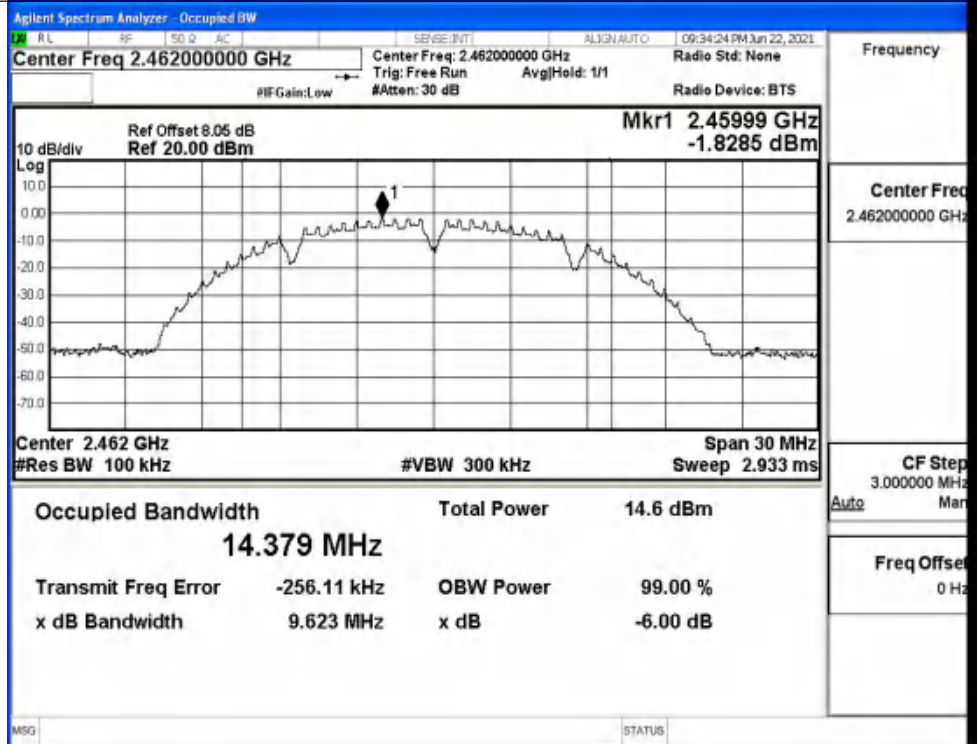
**Test Graphs**



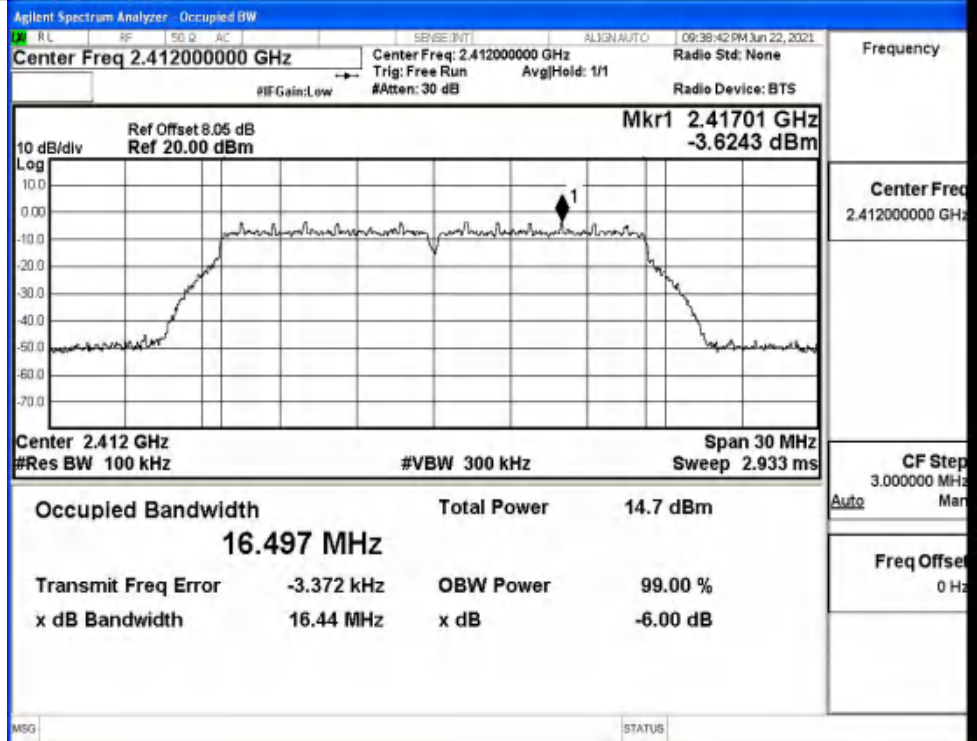
11B/MCH



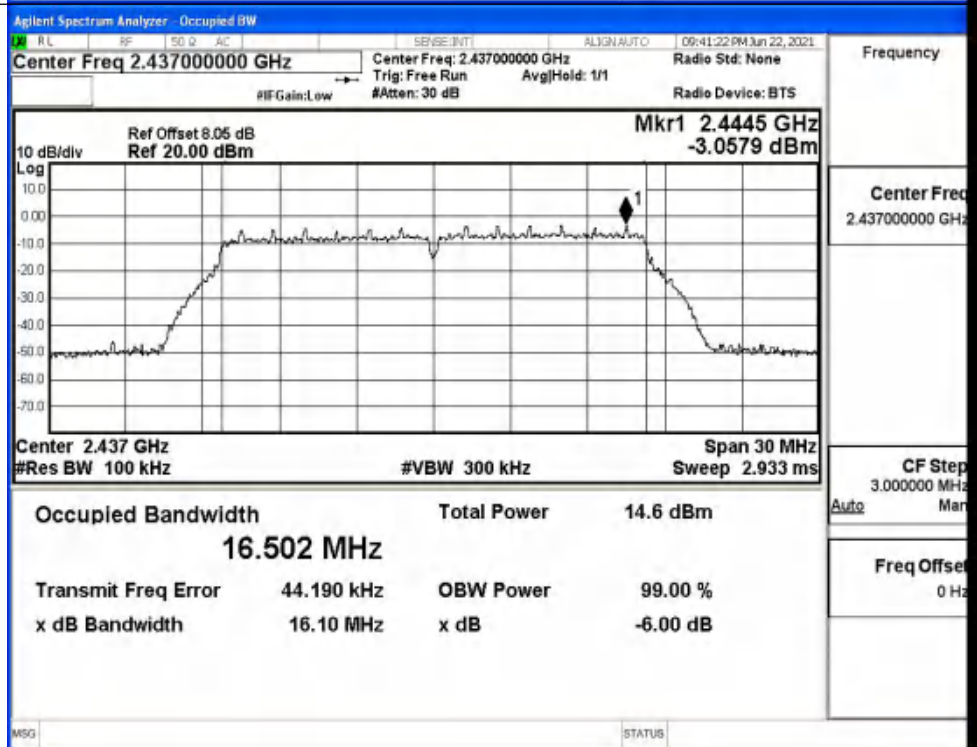
11B/HCH



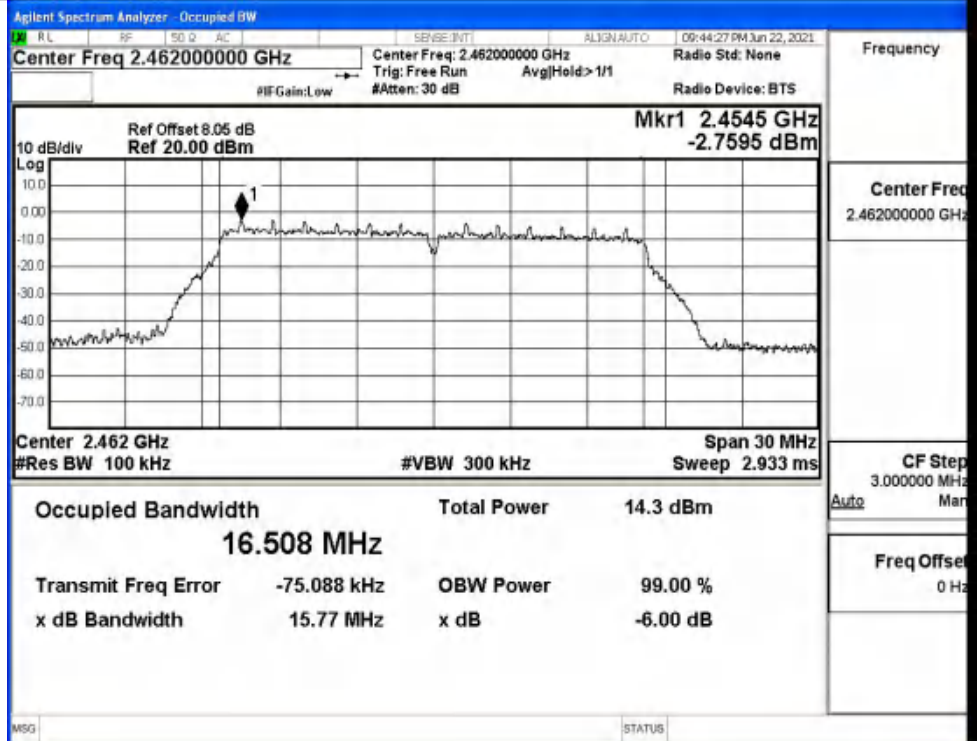
11G/LCH



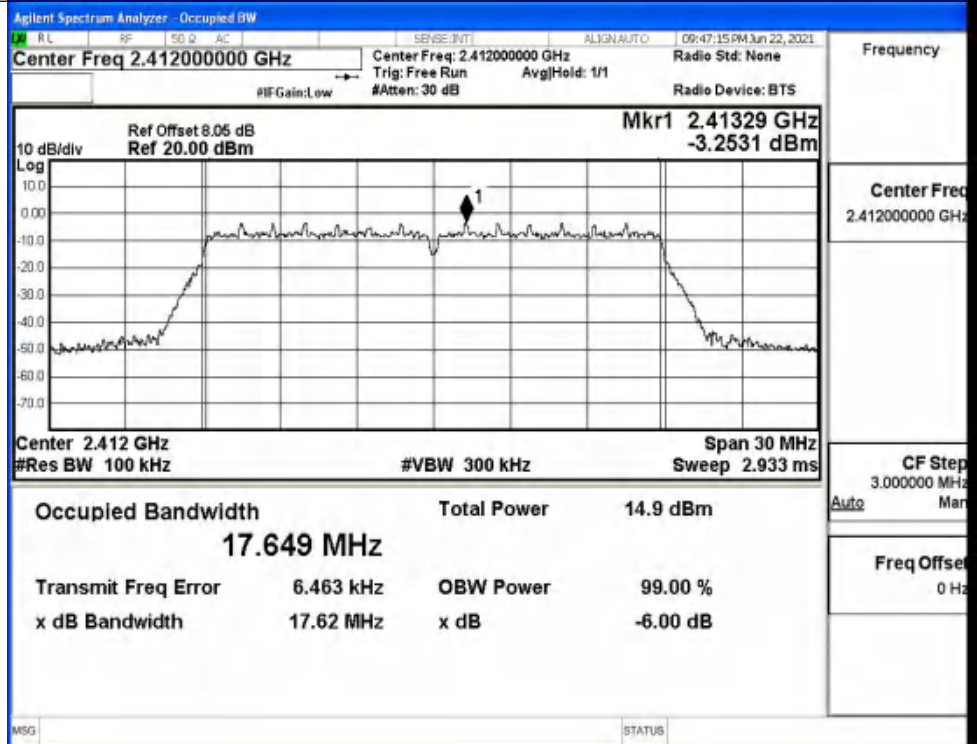
11G/MCH



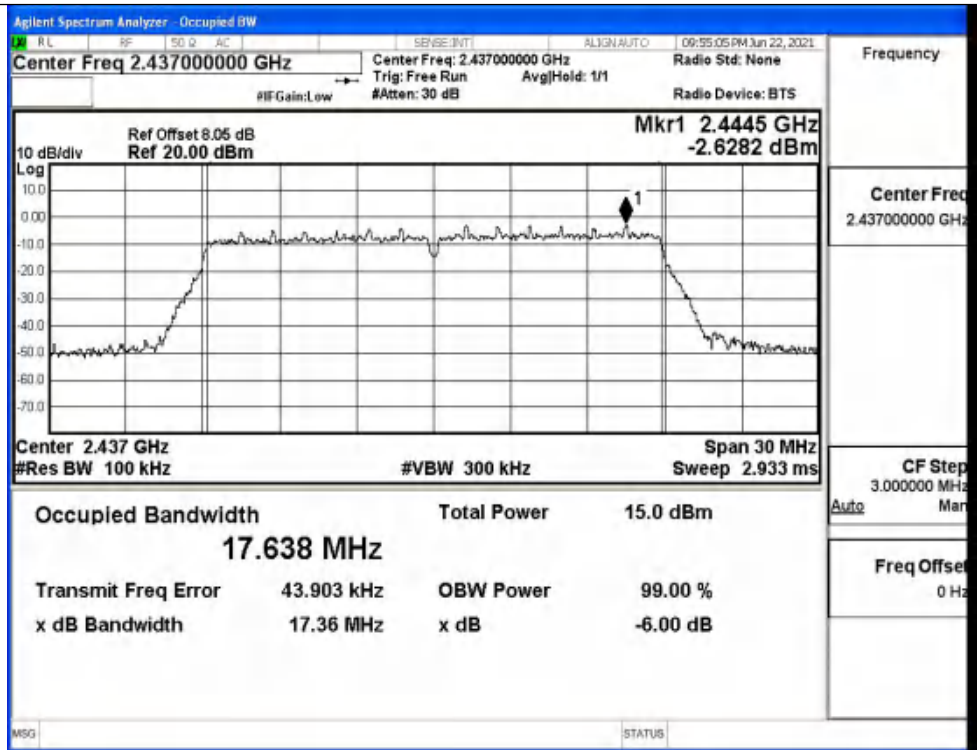
11G/HCH



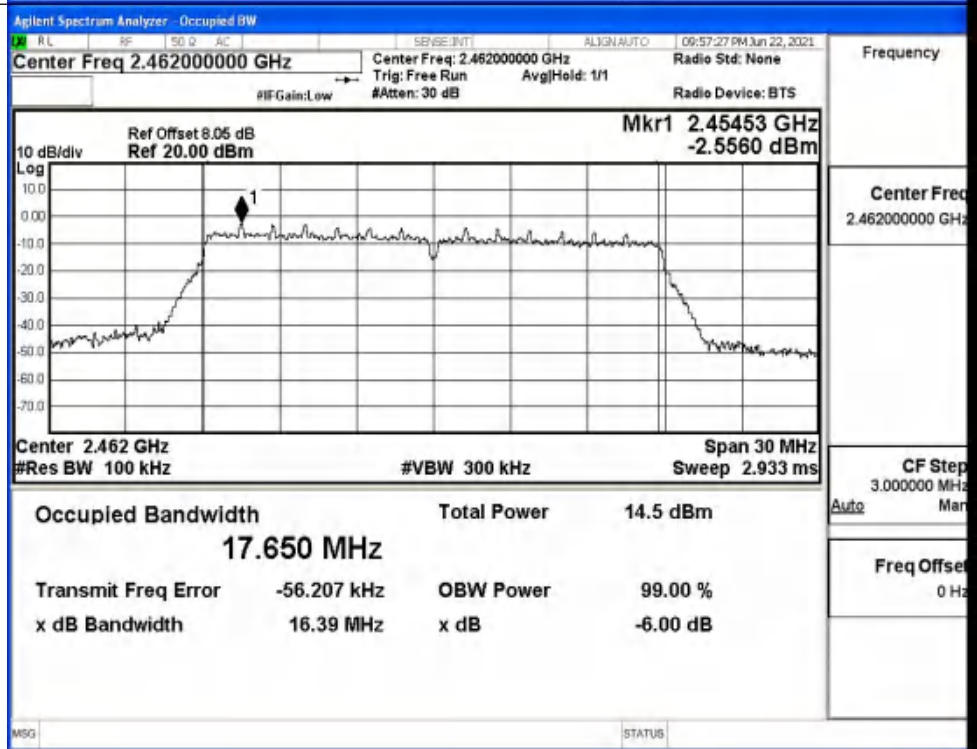
11N20SISO/LCH



11N20SISO/MCH

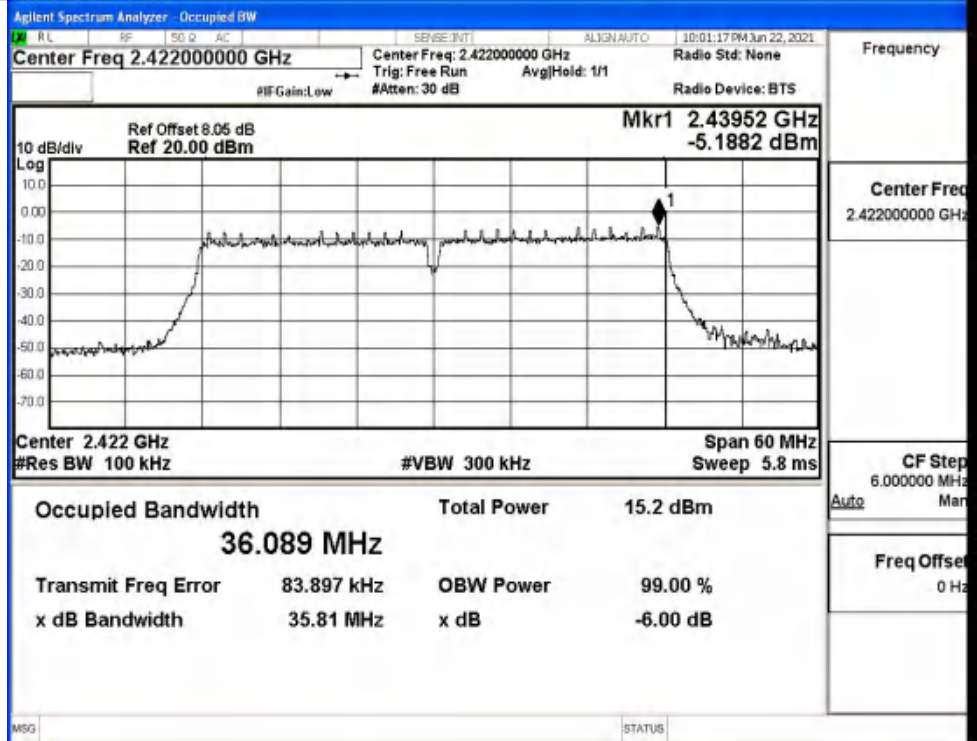


11N20SISO/HCH

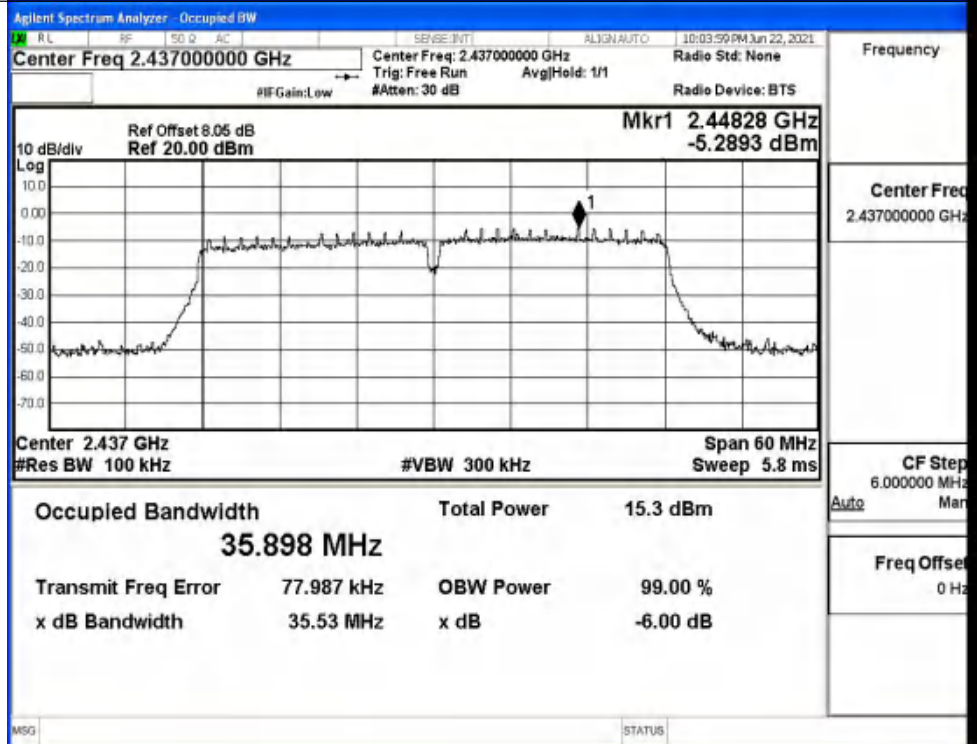




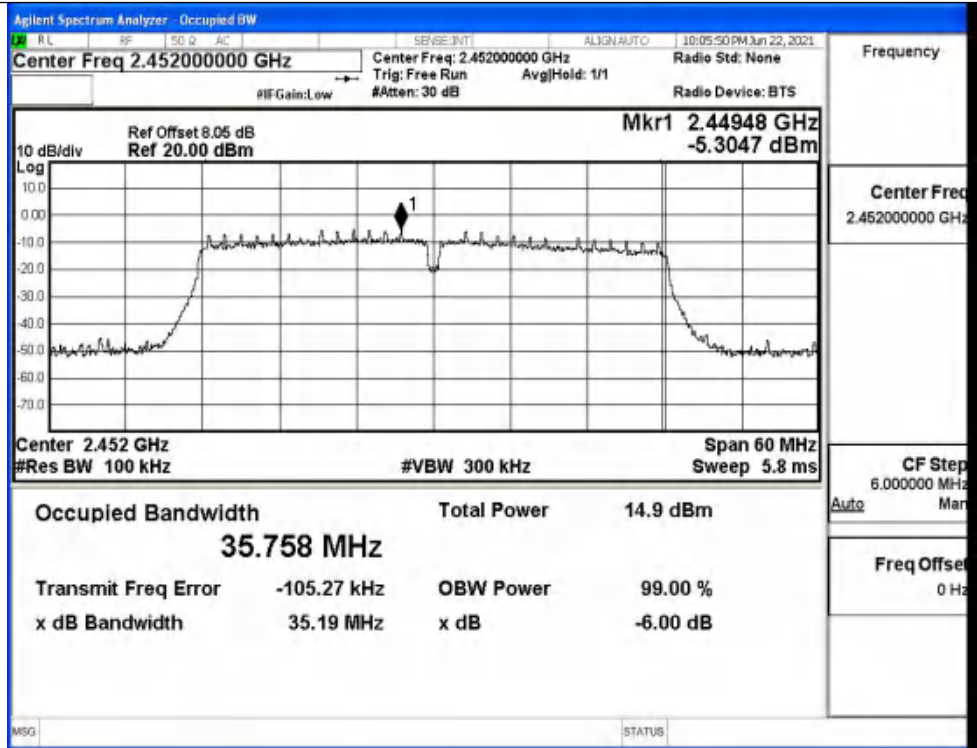
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

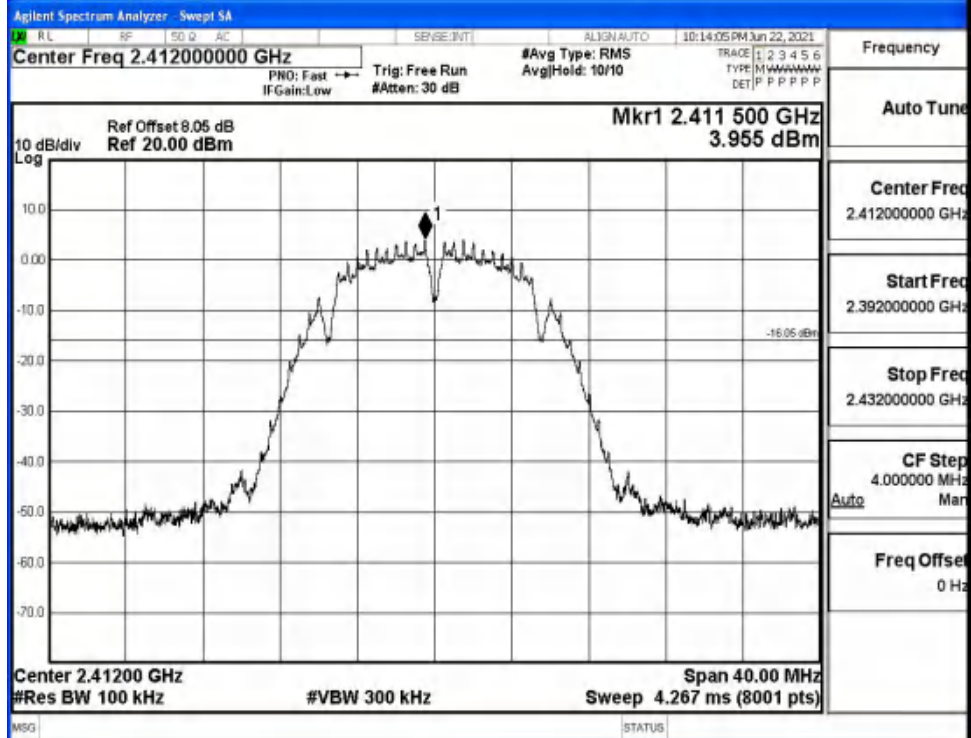


### A.5 RF Conducted Spurious Emissions

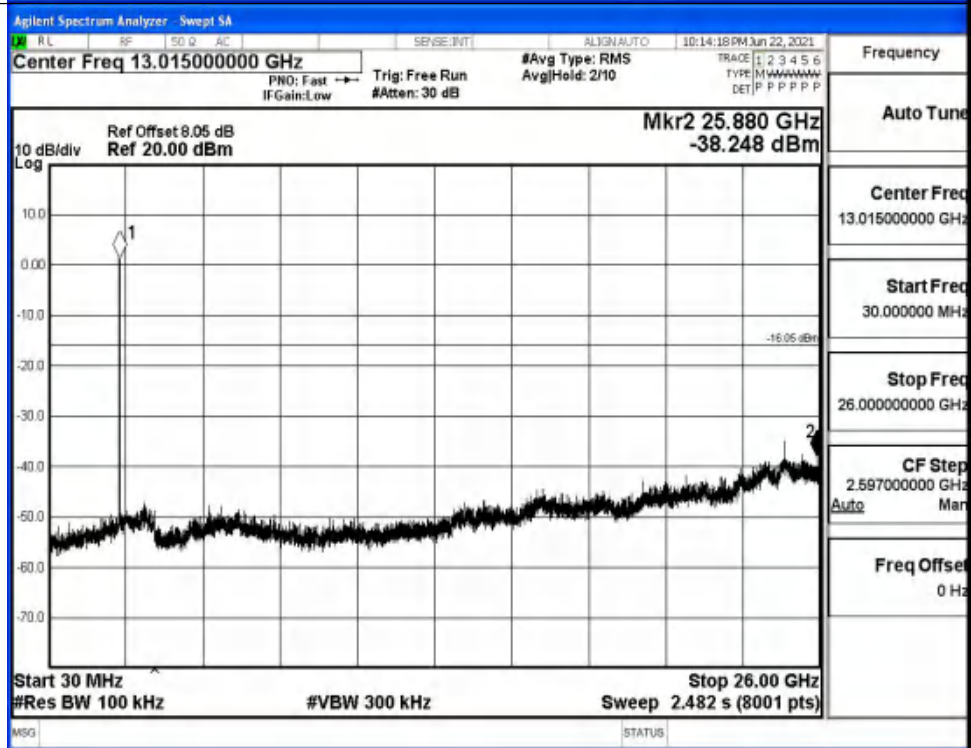
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.955	-38.248	-16.045	PASS
	MCH	-1.604	-36.988	-21.604	PASS
	HCH	-1.866	-37.048	-21.866	PASS
11G	LCH	-3.494	-37.570	-23.494	PASS
	MCH	-2.794	-37.668	-22.794	PASS
	HCH	-2.678	-38.074	-22.678	PASS
11N20 SISO	LCH	-3.627	-36.744	-23.627	PASS
	MCH	-3.202	-37.710	-23.202	PASS
	HCH	-2.575	-35.821	-22.575	PASS
11N40 SISO	LCH	-5.428	-38.287	-25.428	PASS
	MCH	-5.812	-37.033	-25.812	PASS
	HCH	-5.303	-38.189	-25.303	PASS

11B LCH Graphs

Pref/11B/LCH

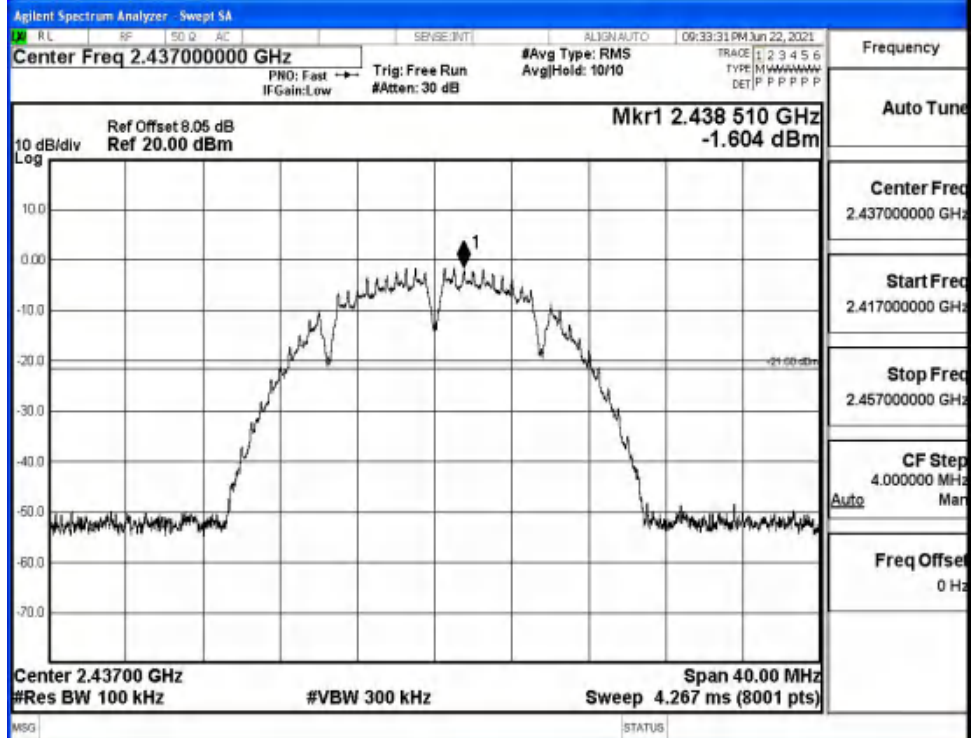


Puw/11B/LCH

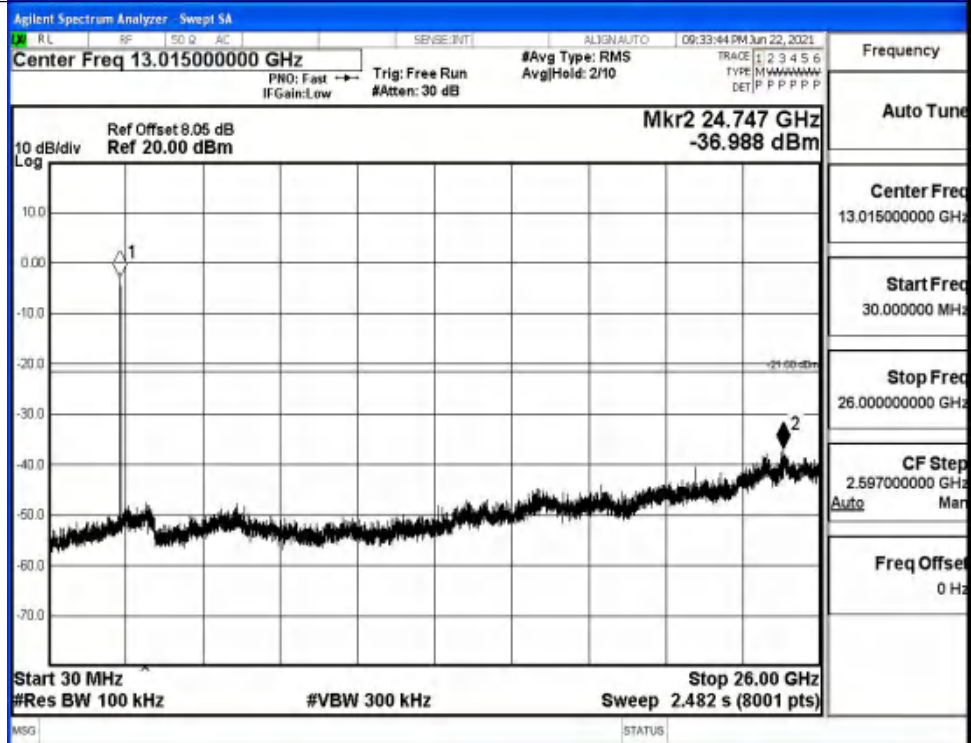


11B\_MCH\_Graphs

Pref/11B/MCH

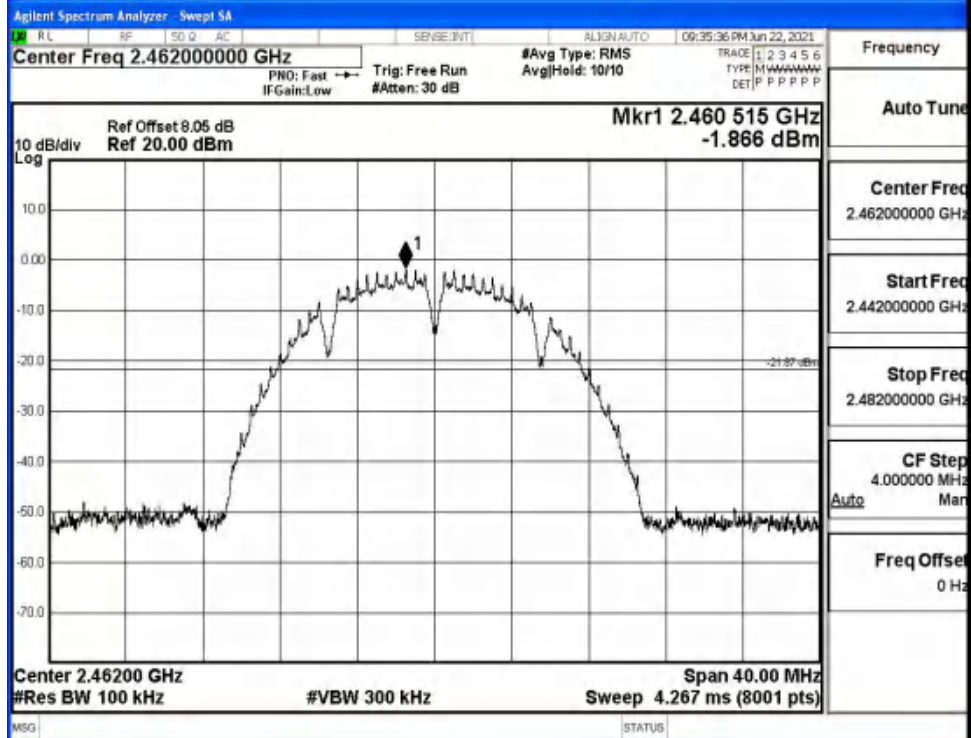


Puw/11B/MCH

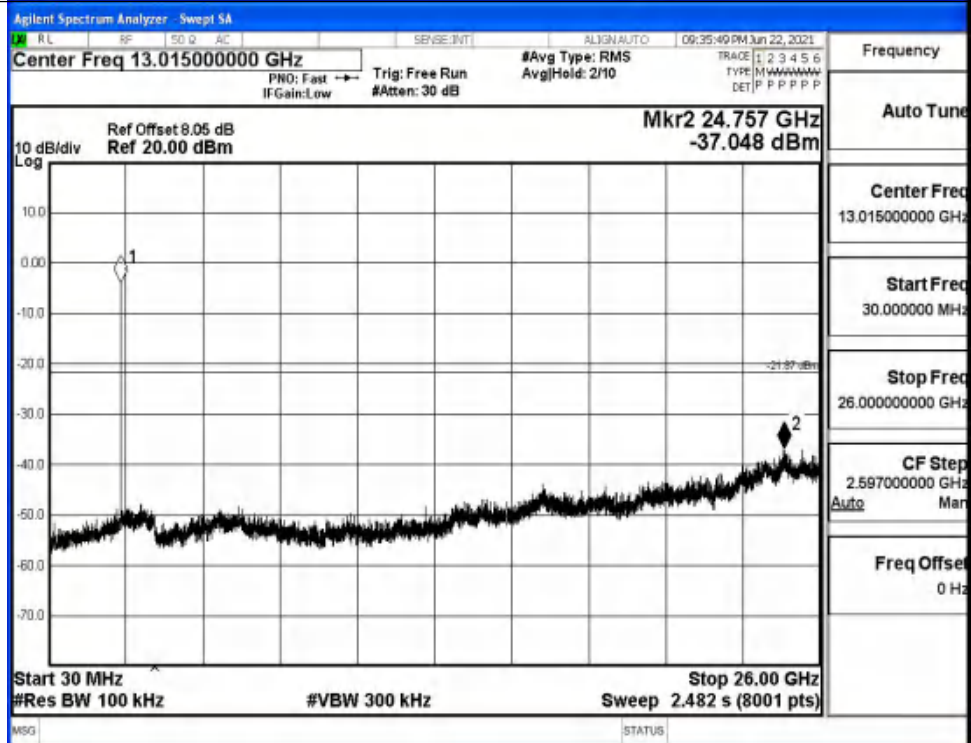


11B HCH Graphs

Pref/11B/HCH

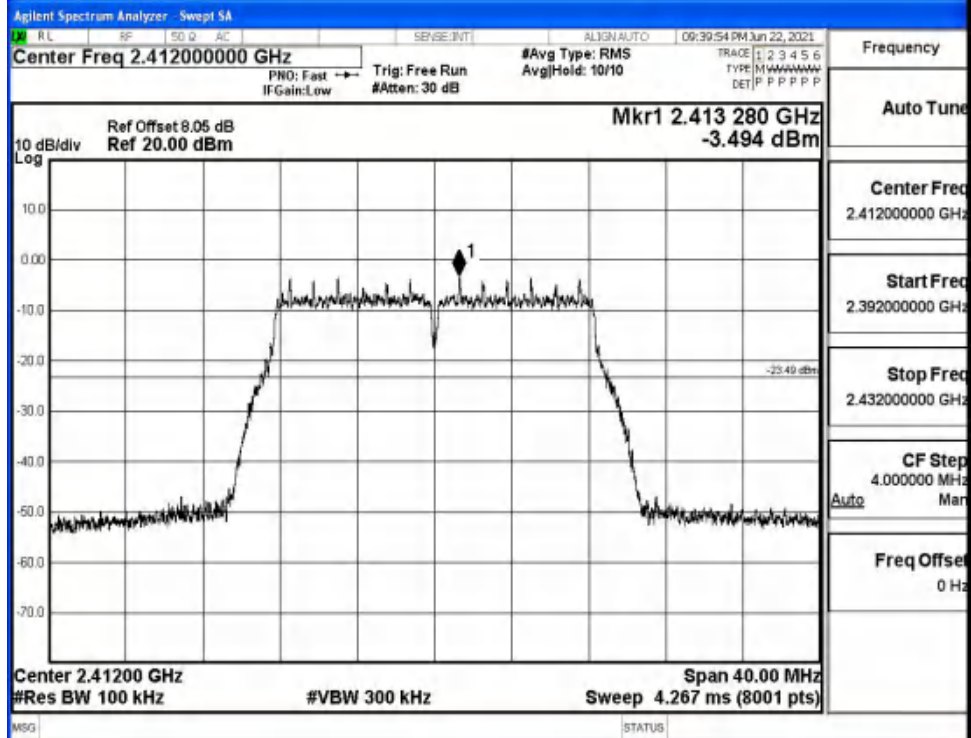


Puw/11B/HCH

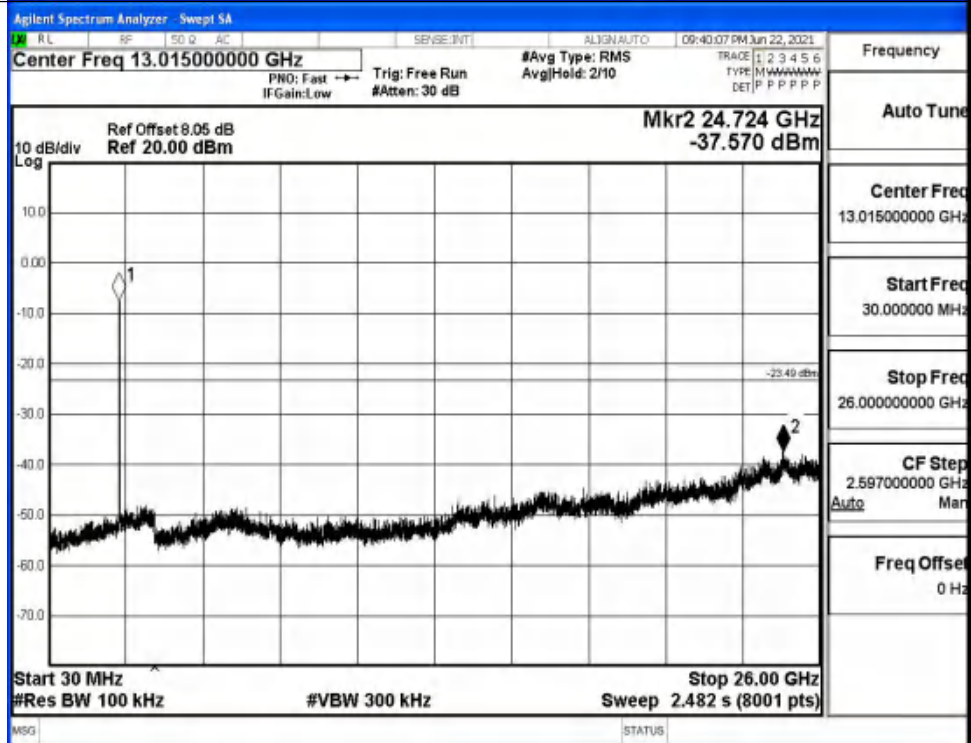


11G\_LCH\_Graphs

Pref/11G/LCH

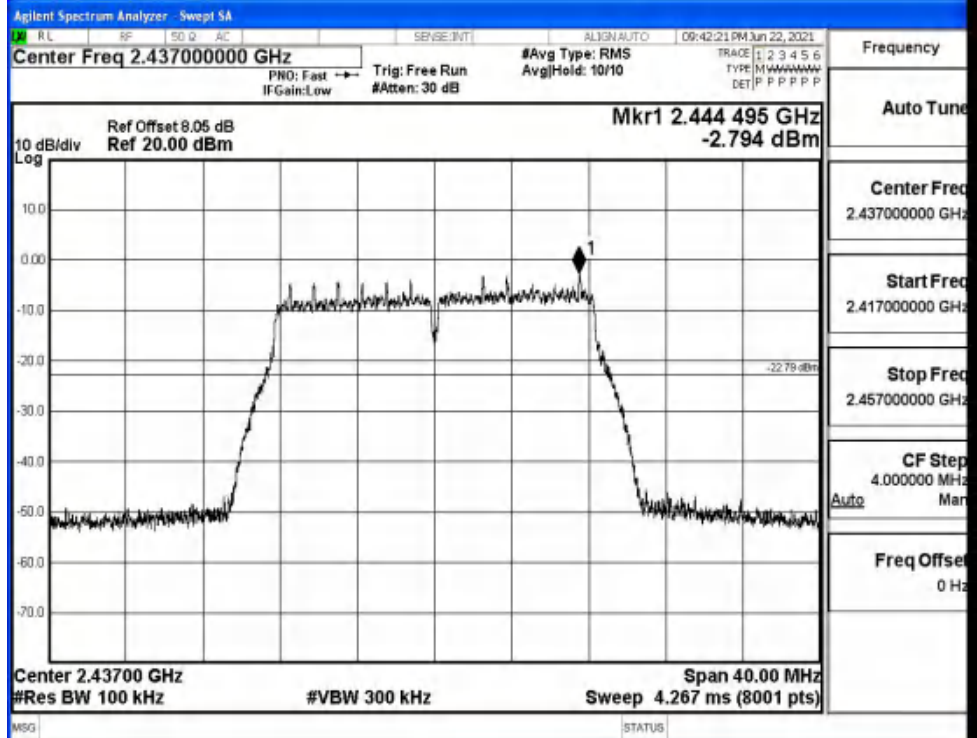


Puw/11G/LCH

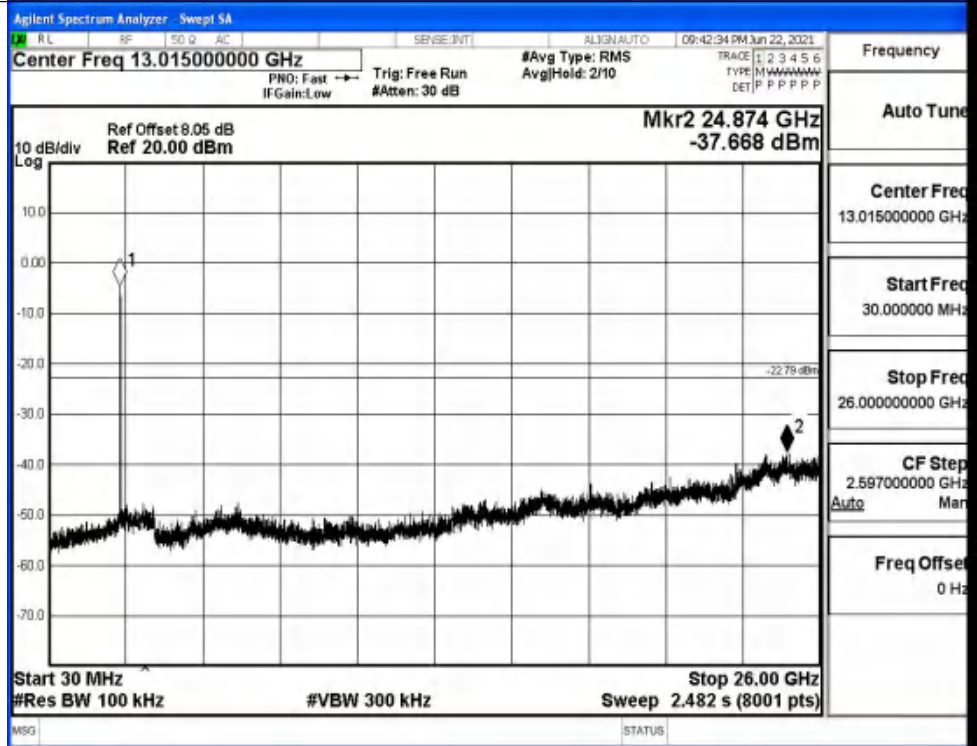


11G MCH\_Graphs

Pref/11G/MCH



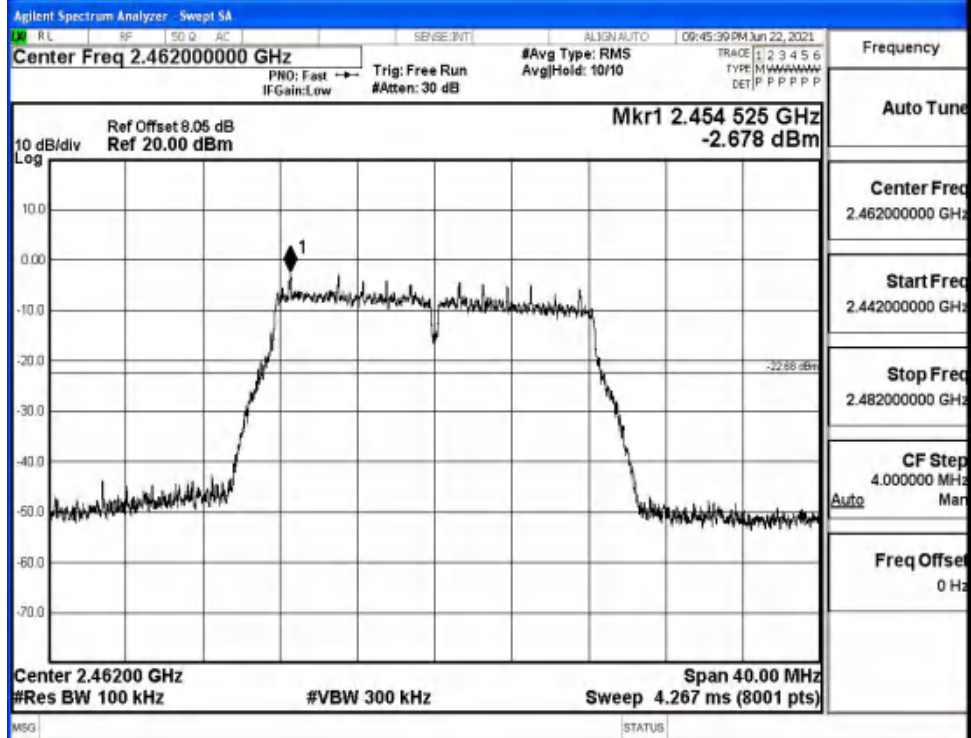
Puw/11G/MCH



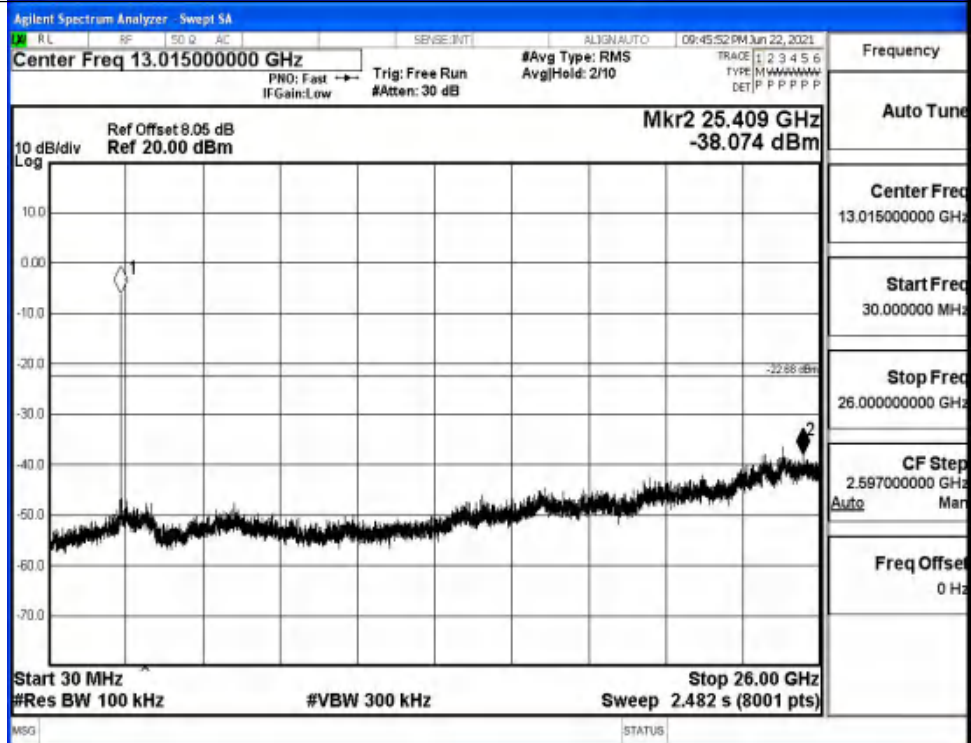


11G HCH Graphs

Pref/11G/HCH

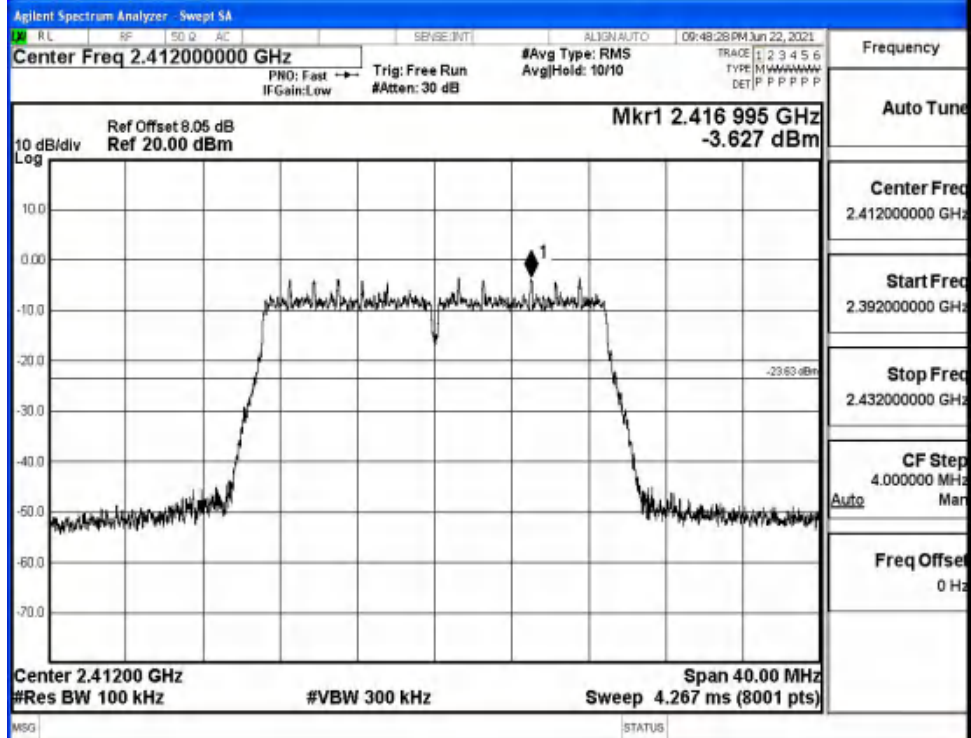


Puw/11G/HCH

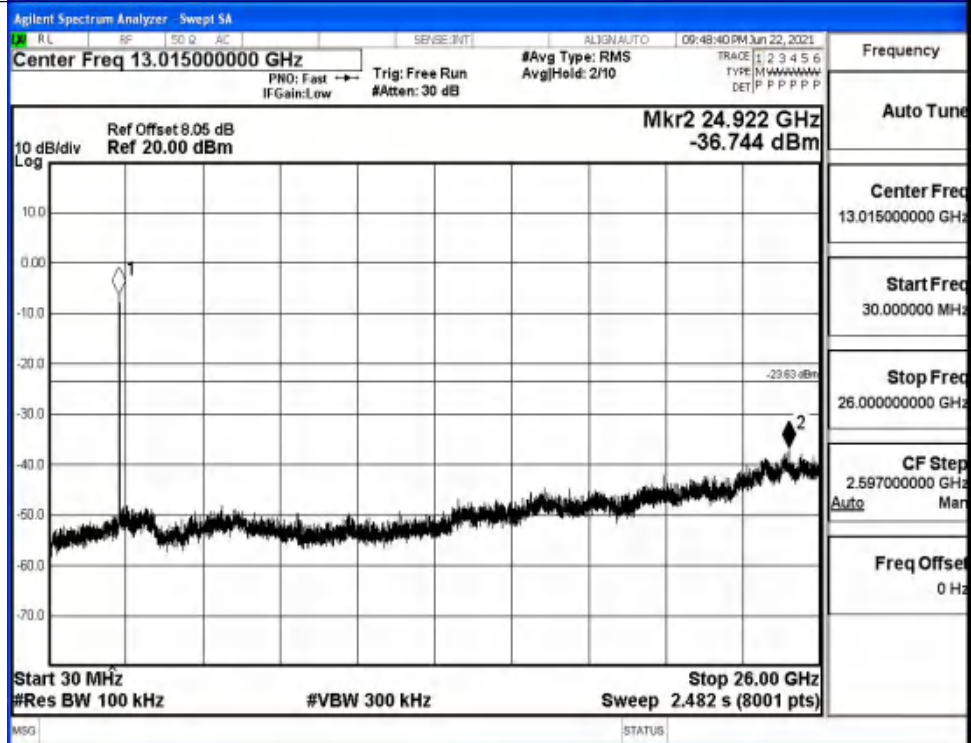


11N20SISO LCH\_Graphs

Pref/11N20SISO/LCH

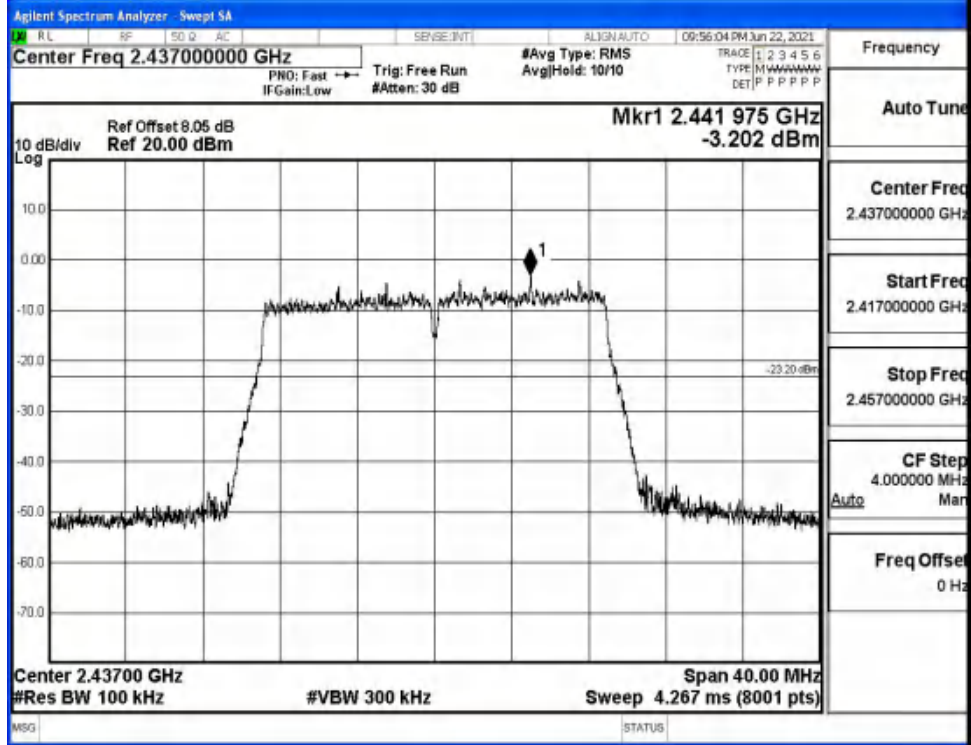


Puw/11N20SISO/LCH

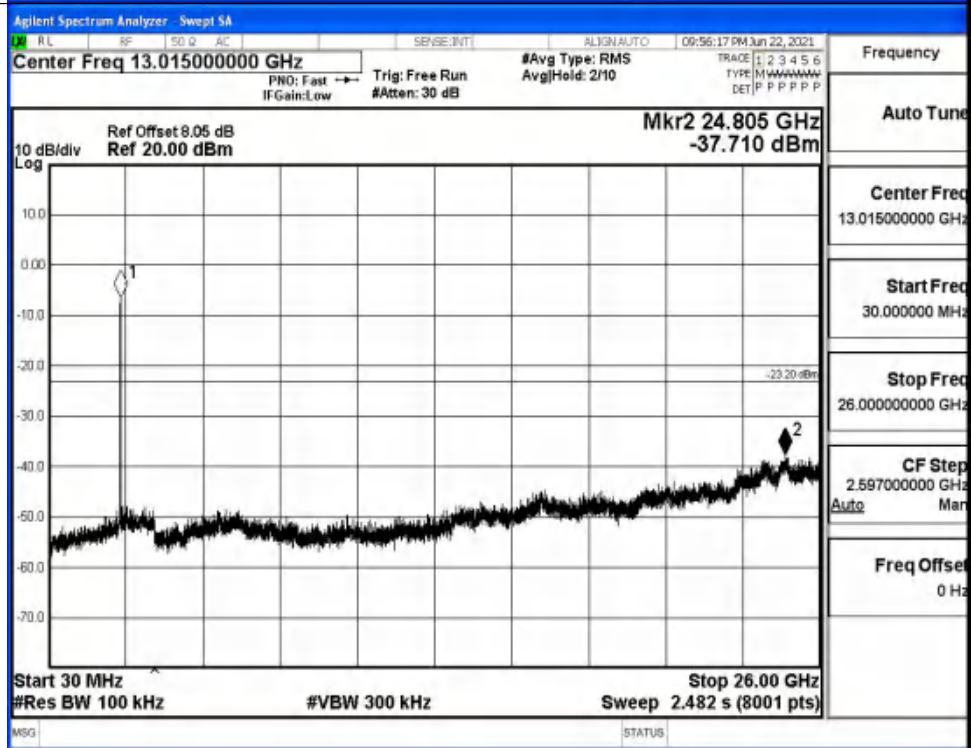


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

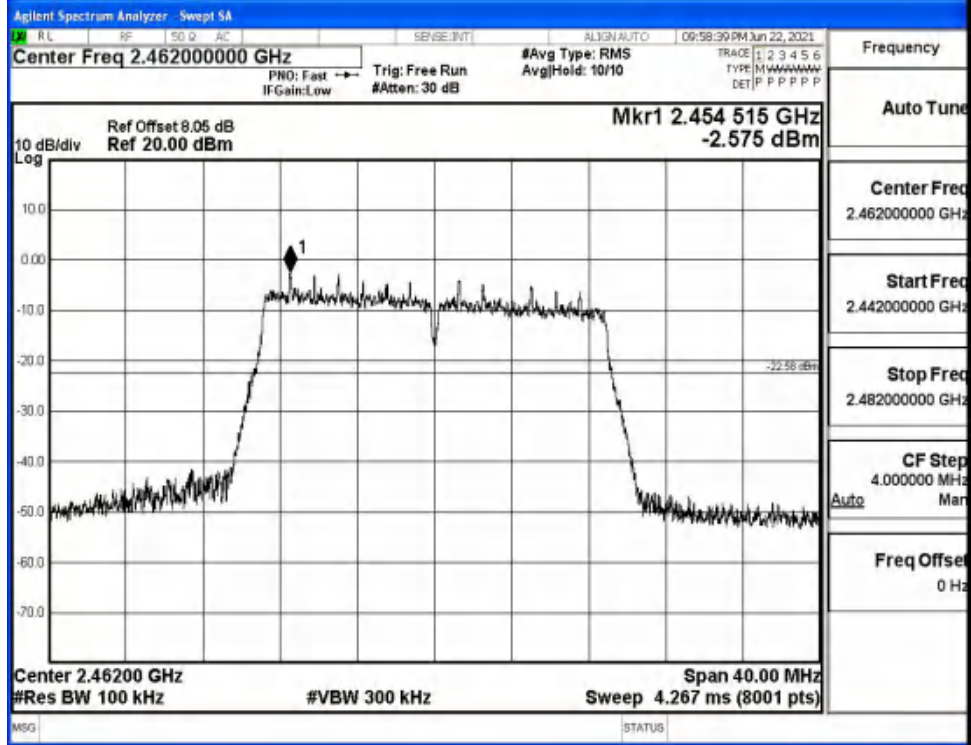


Puw/11N20  
SISO/MCH

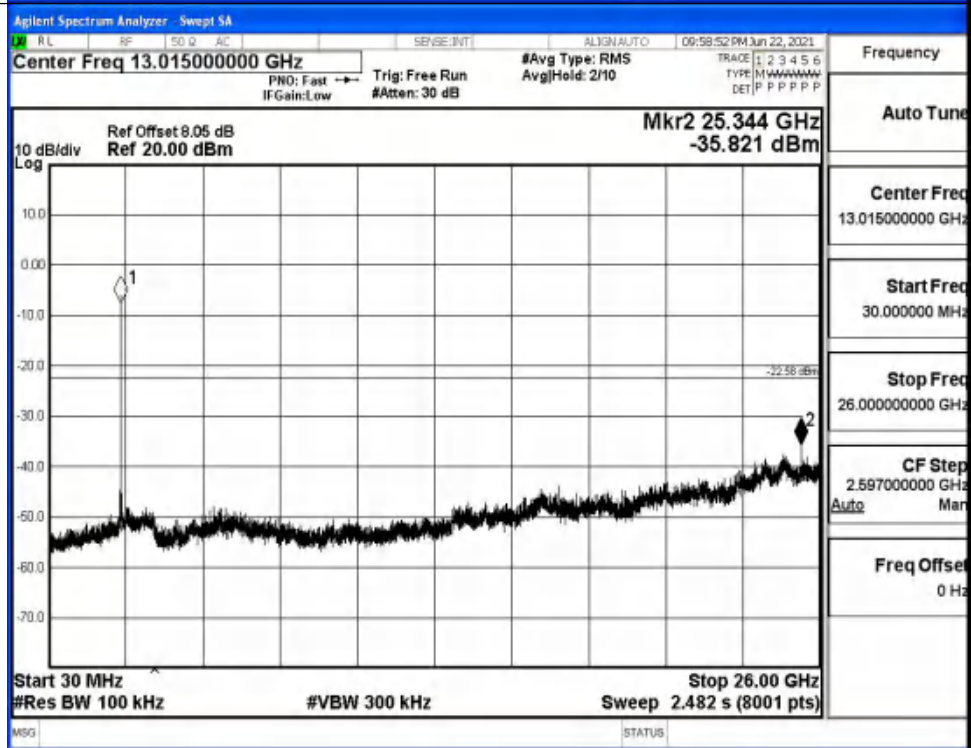


11N20SISO HCH\_Graphs

Pref/11N20  
SISO/HCH

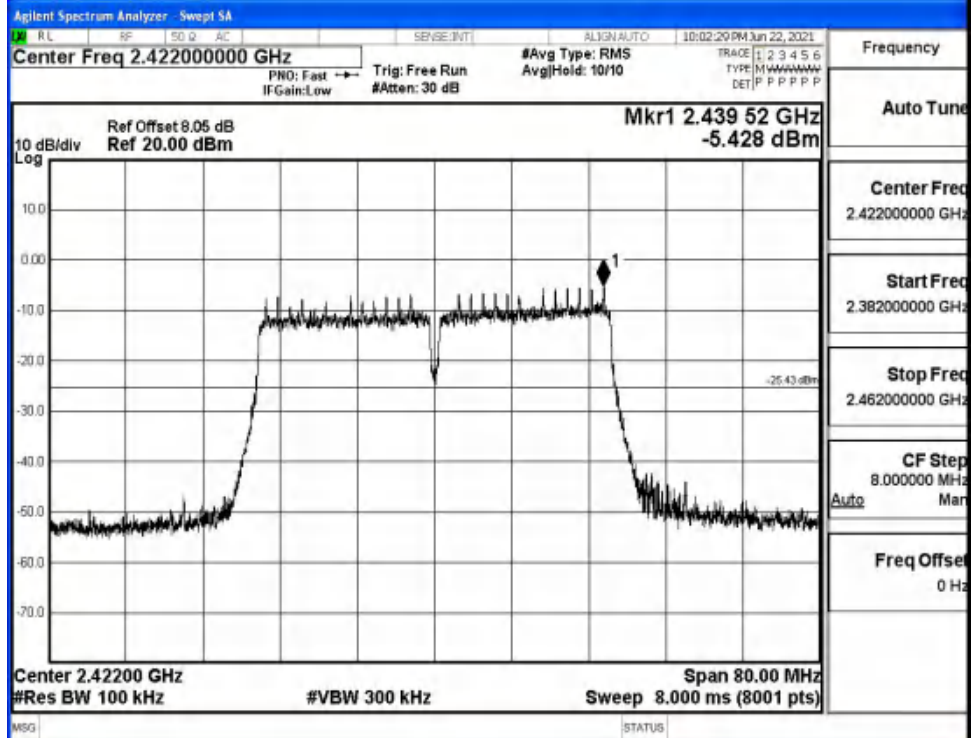


Puw/11N20  
SISO/HCH

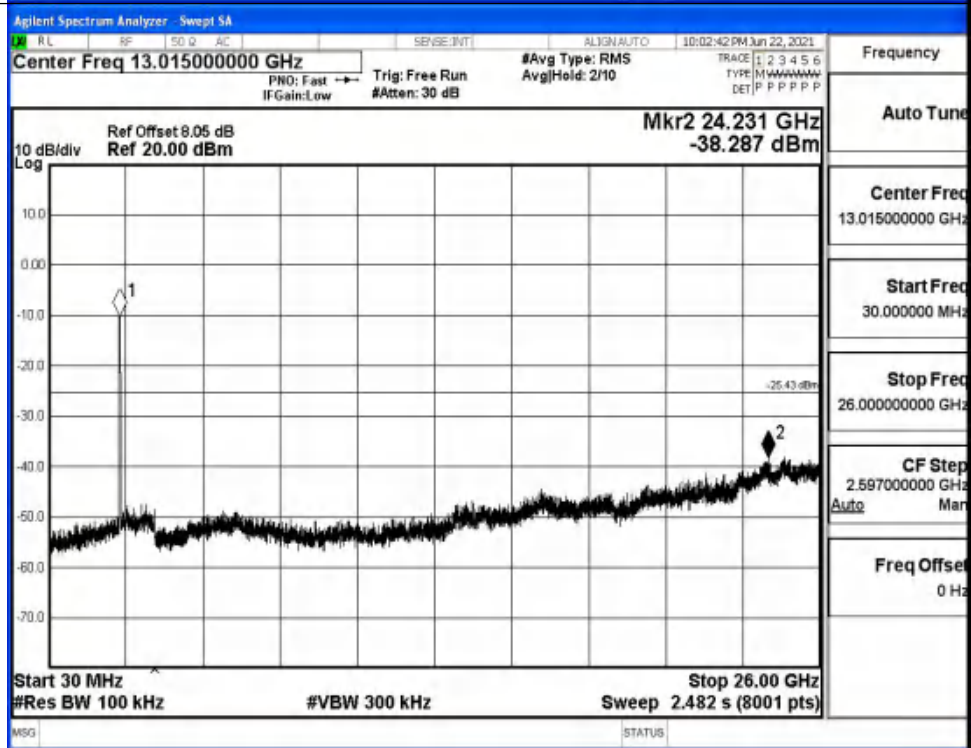


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

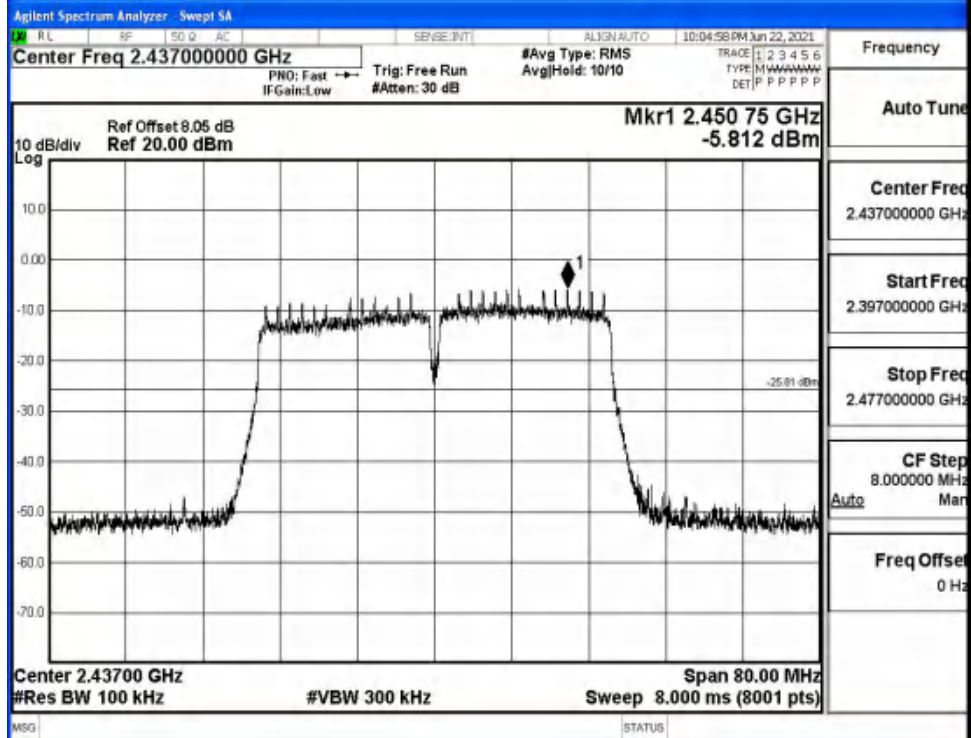


Puw/11N40  
SISO/LCH

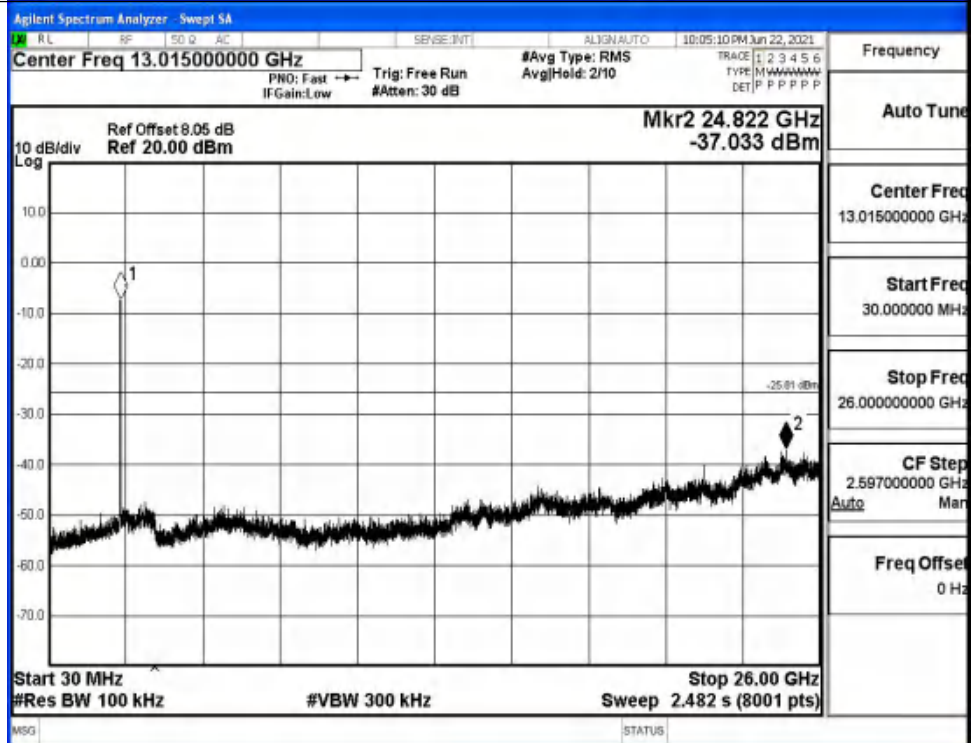


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

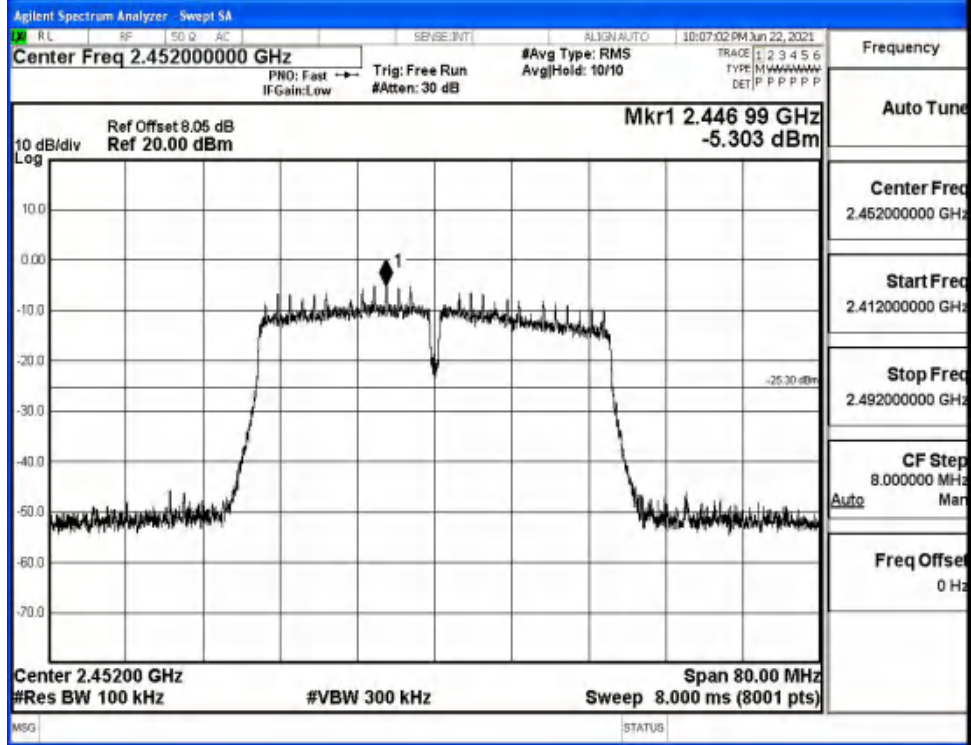


Puw/11N40  
SISO/MCH

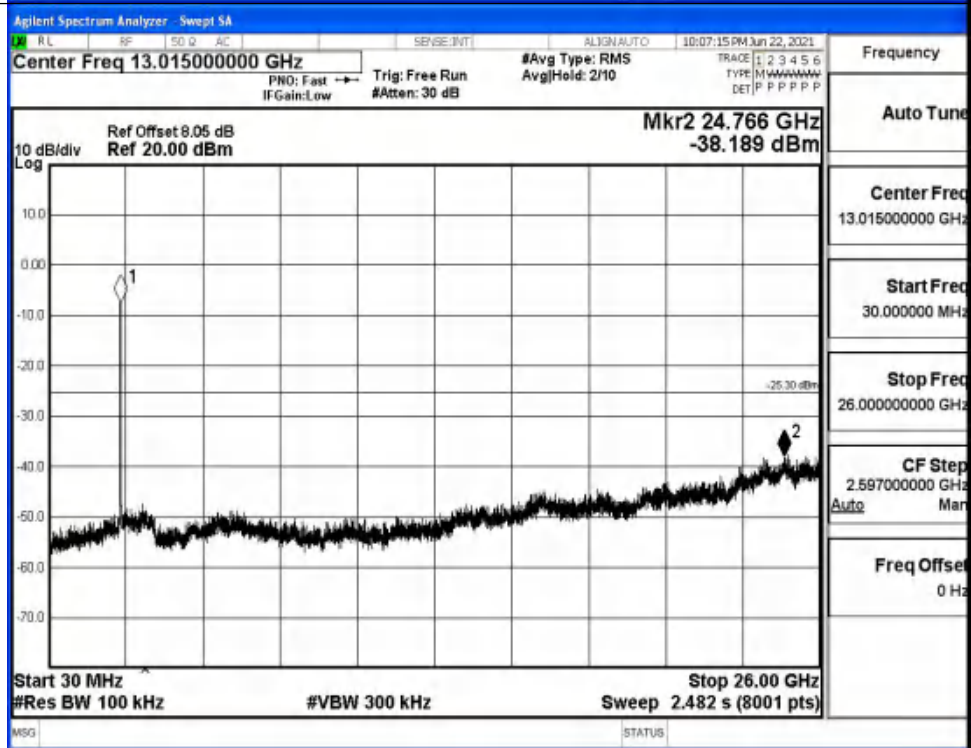


11N40SISO HCH\_Graphs

Pref/11N40  
SISO/HCH

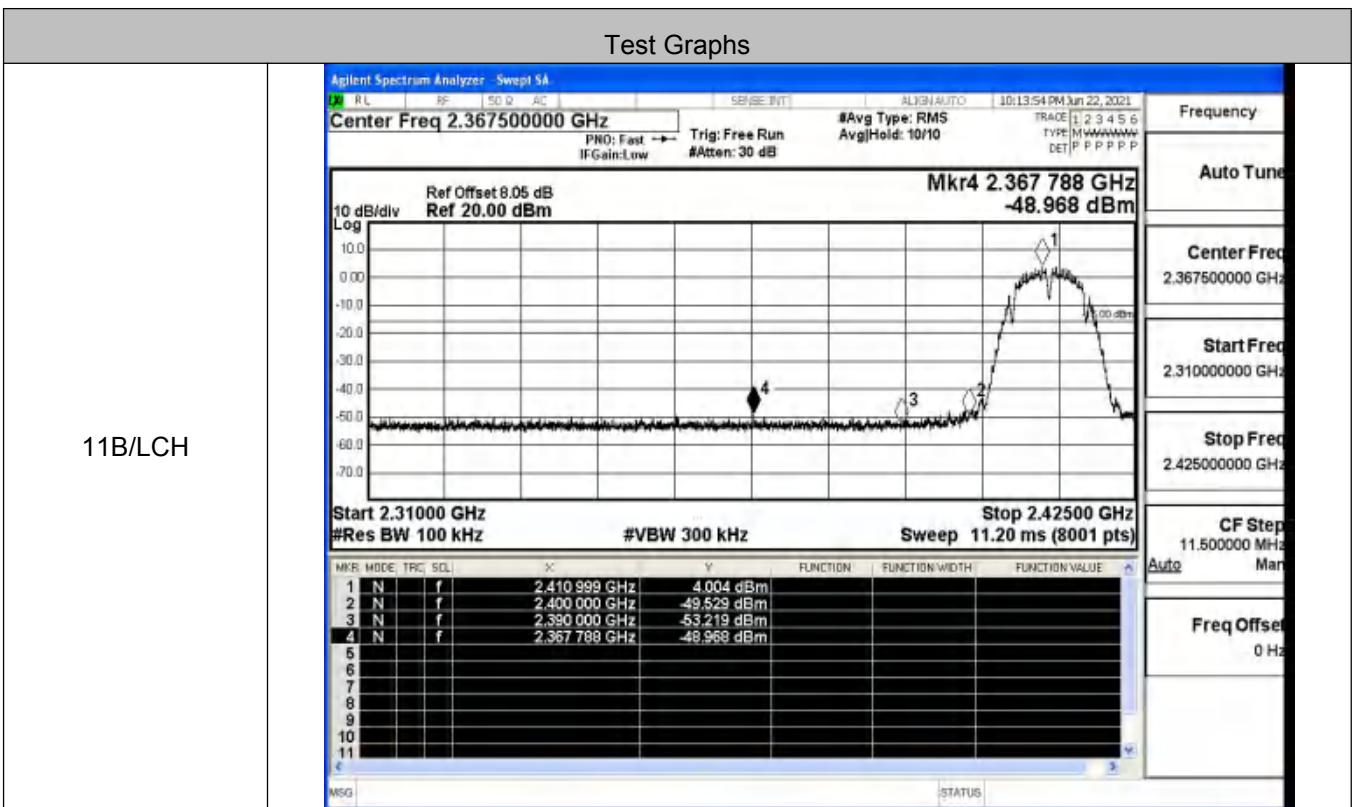


Puw/11N40  
SISO/HCH



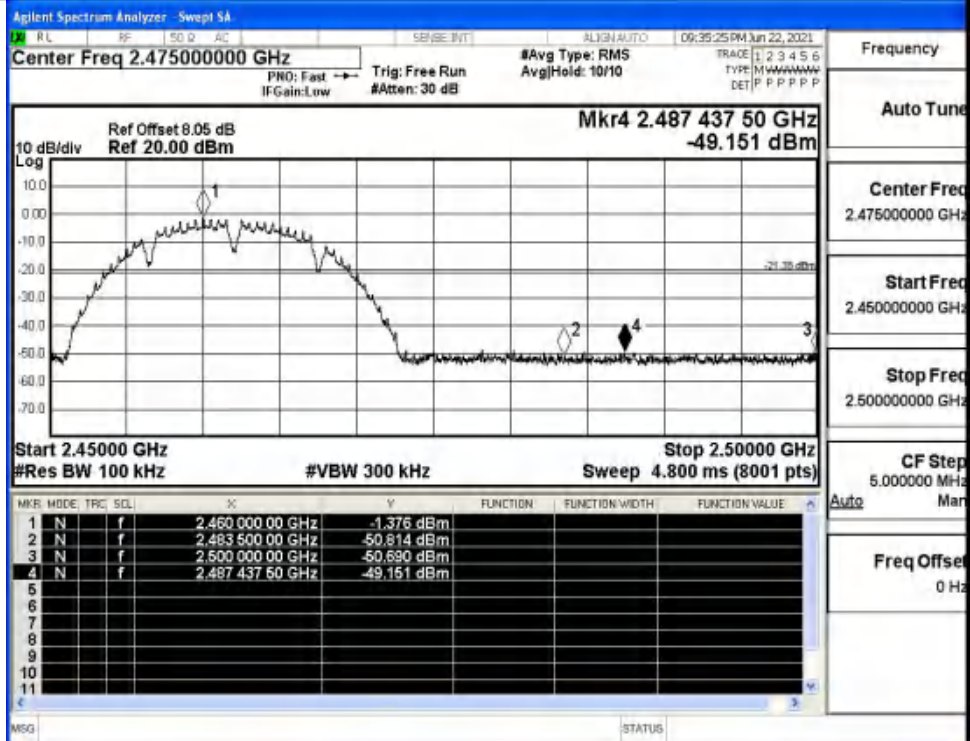
### A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.004	-48.968	-16	PASS
	HCH	-1.376	-49.151	-21.38	PASS
11G	LCH	-3.593	-49.365	-23.59	PASS
	HCH	-2.860	-45.207	-22.86	PASS
11N20SISO	LCH	-3.581	-48.822	-23.58	PASS
	HCH	-2.483	-45.825	-22.48	PASS
11N40SISO	LCH	-5.313	-49.627	-25.31	PASS
	HCH	-5.074	-48.275	-25.07	PASS

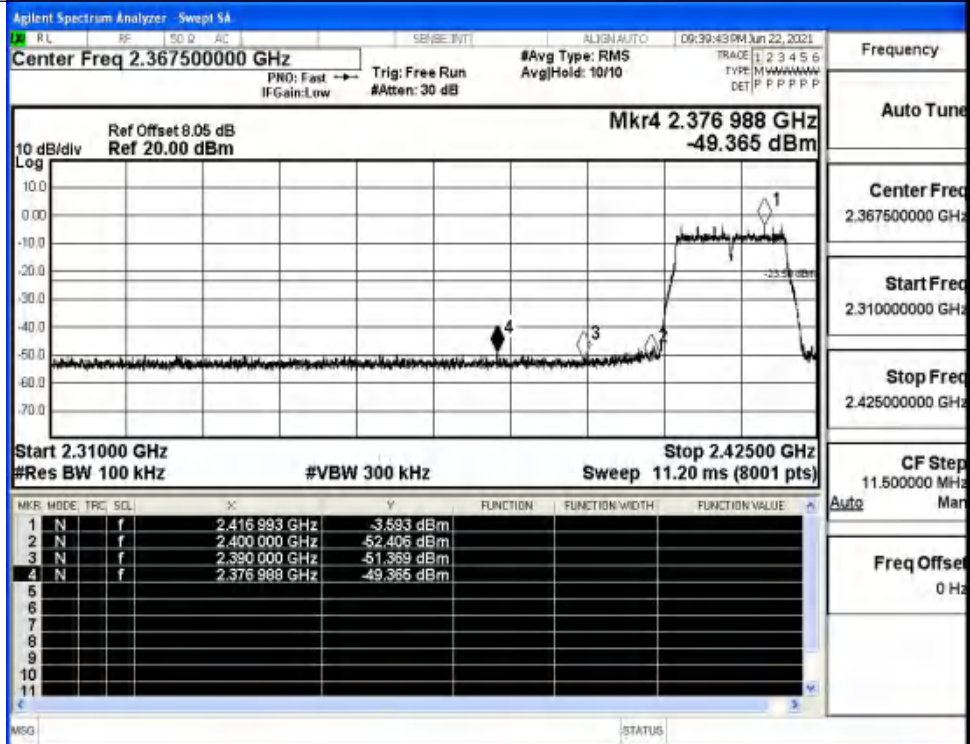




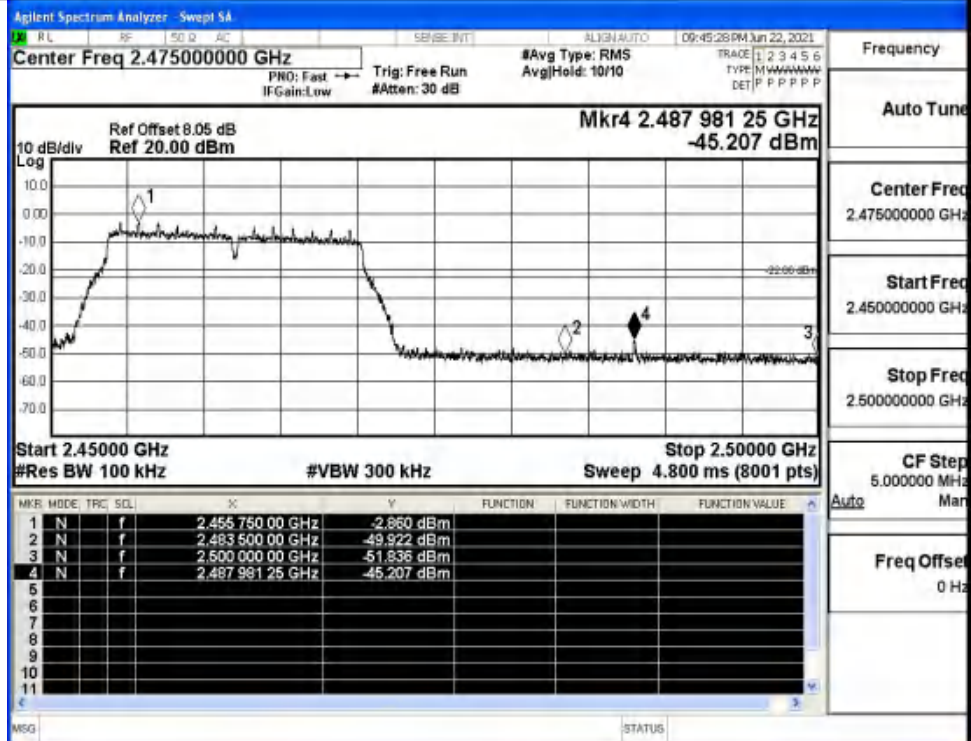
11B/HCH



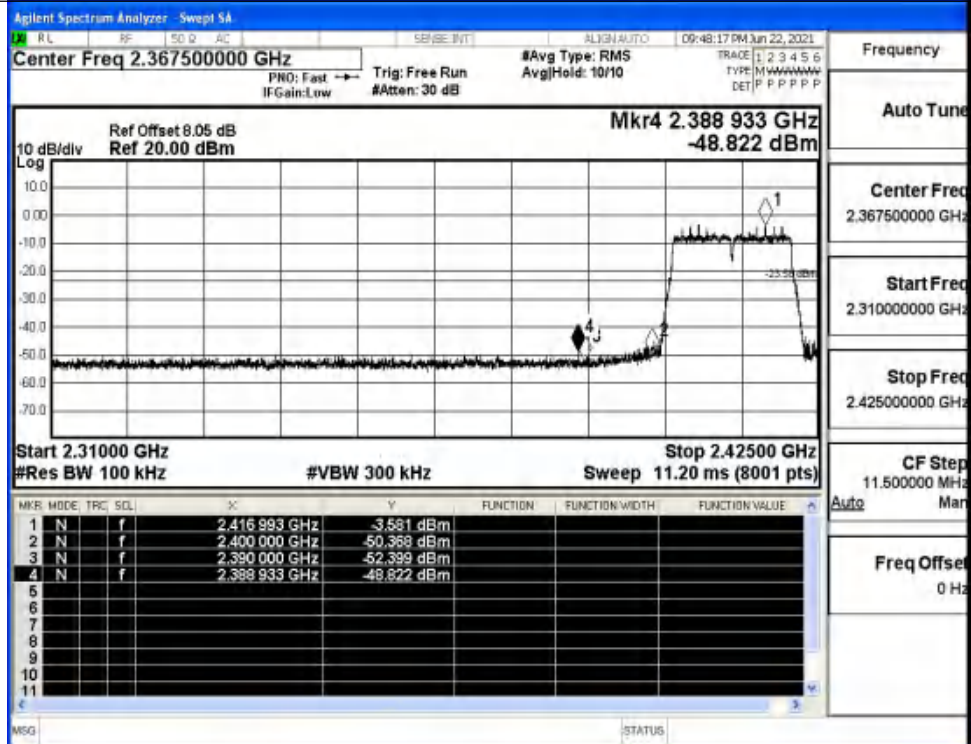
11G/LCH



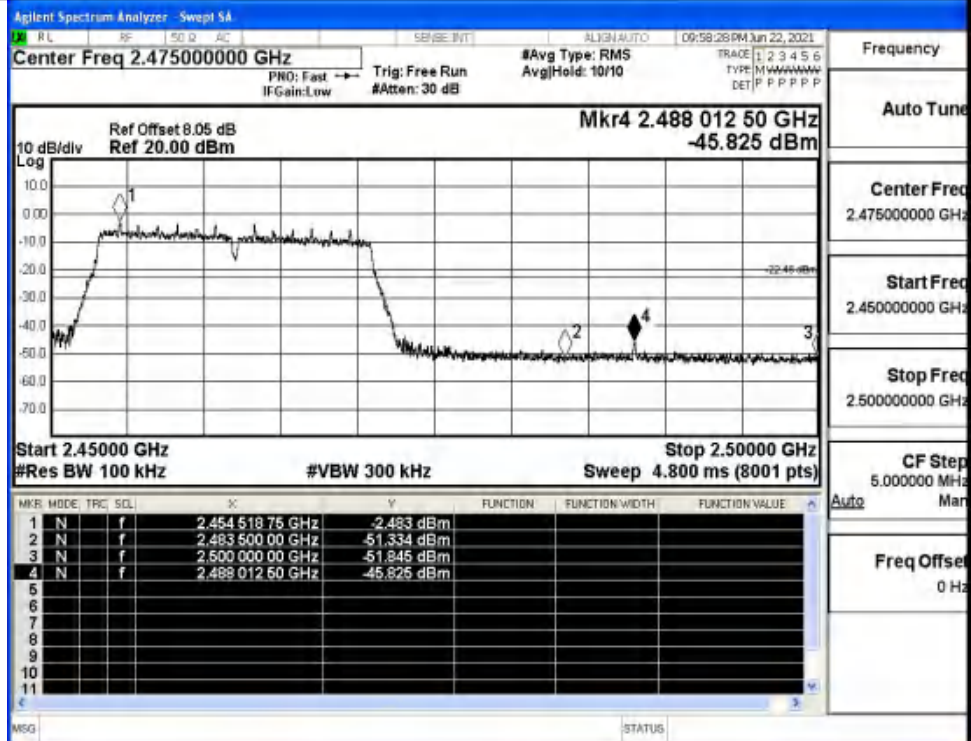
11G/HCH



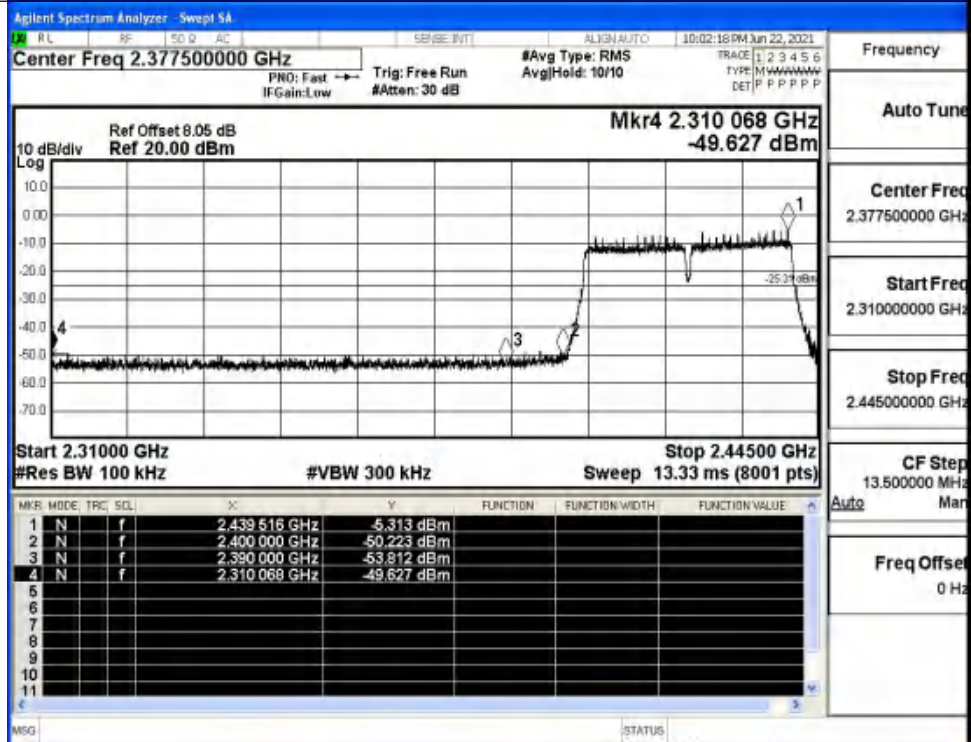
11N20SISO/LCH



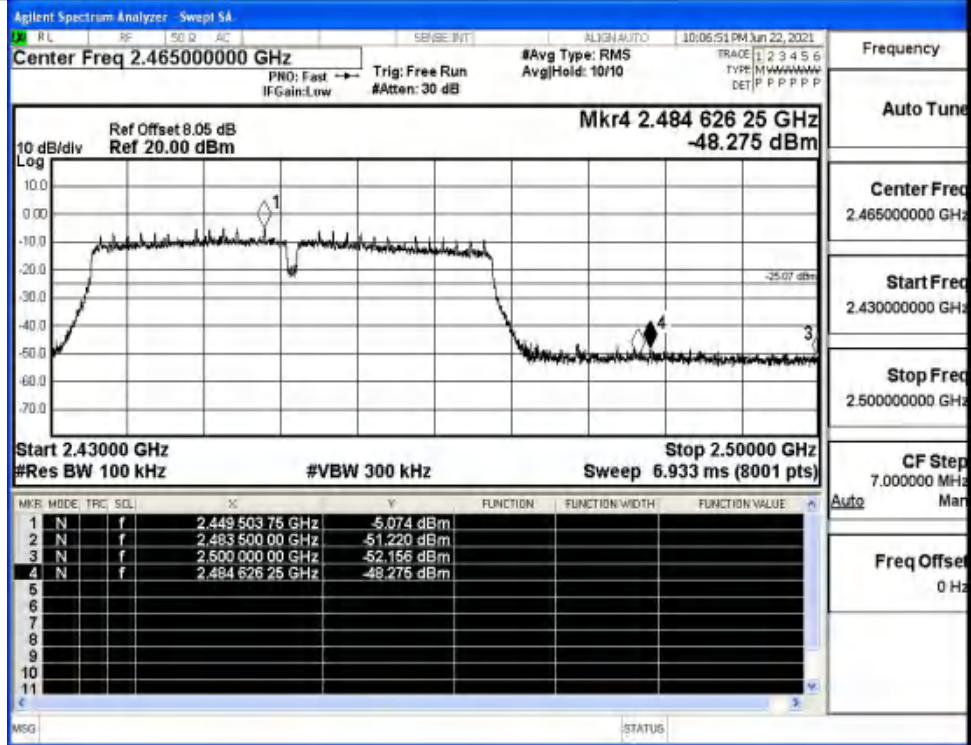
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

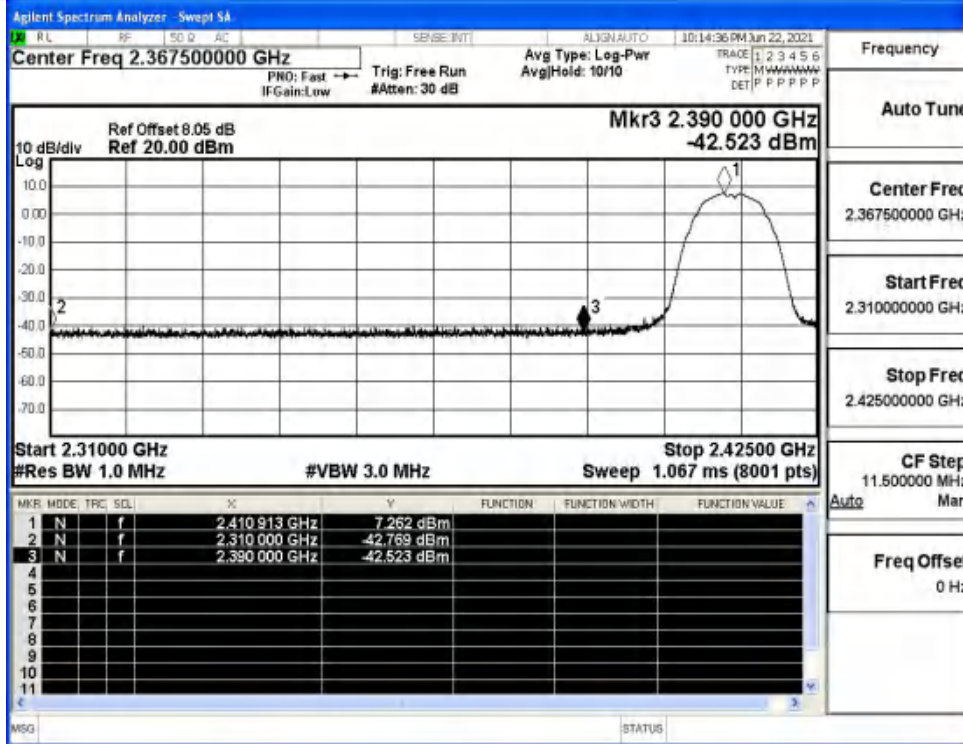


## A.7 Restrict-band band-edge measurements

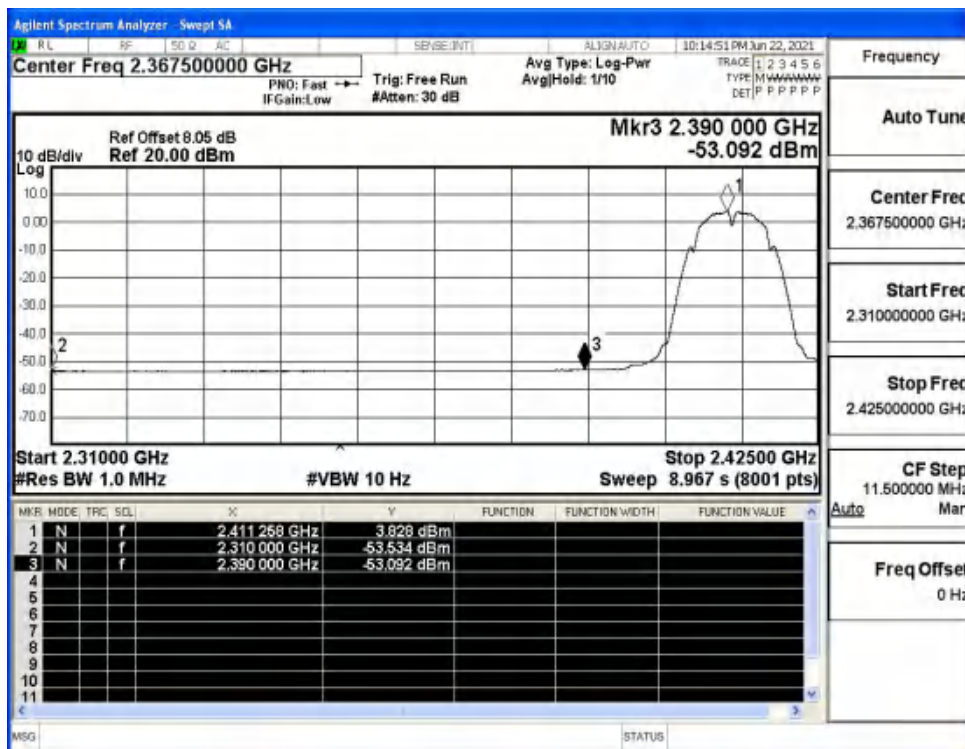
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-42.77	2.0	0	54.46	PEAK	74	PASS
	2412	Ant1	2310.0	-53.53	2.0	0	43.70	AV	54	PASS
	2412	Ant1	2390.0	-42.52	2.0	0	54.71	PEAK	74	PASS
	2412	Ant1	2390.0	-53.09	2.0	0	44.14	AV	54	PASS
	2462	Ant1	2483.5	-42.29	2.0	0	54.94	PEAK	74	PASS
	2462	Ant1	2483.5	-52.62	2.0	0	44.61	AV	54	PASS
	2462	Ant1	2500.0	-42.57	2.0	0	54.66	PEAK	74	PASS
	2462	Ant1	2500.0	-52.52	2.0	0	44.71	AV	54	PASS
11G	2412	Ant1	2310.0	-42.58	2.0	0	54.65	PEAK	74	PASS
	2412	Ant1	2310.0	-53.54	2.0	0	43.69	AV	54	PASS
	2412	Ant1	2390.0	-43.02	2.0	0	54.21	PEAK	74	PASS
	2412	Ant1	2390.0	-53.09	2.0	0	44.14	AV	54	PASS
	2462	Ant1	2483.5	-39.98	2.0	0	57.25	PEAK	74	PASS
	2462	Ant1	2483.5	-51.82	2.0	0	45.41	AV	54	PASS
	2462	Ant1	2500.0	-40.62	2.0	0	56.61	PEAK	74	PASS
	2462	Ant1	2500.0	-52.58	2.0	0	44.65	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.25	2.0	0	54.98	PEAK	74	PASS
	2412	Ant1	2310.0	-53.54	2.0	0	43.69	AV	54	PASS
	2412	Ant1	2390.0	-41.27	2.0	0	55.96	PEAK	74	PASS
	2412	Ant1	2390.0	-53.09	2.0	0	44.14	AV	54	PASS
	2462	Ant1	2483.5	-40.98	2.0	0	56.25	PEAK	74	PASS
	2462	Ant1	2483.5	-51.77	2.0	0	45.46	AV	54	PASS
	2462	Ant1	2500.0	-40.75	2.0	0	56.48	PEAK	74	PASS
	2462	Ant1	2500.0	-52.54	2.0	0	44.69	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-41.65	2.0	0	55.58	PEAK	74	PASS
	2422	Ant1	2310.0	-53.53	2.0	0	43.70	AV	54	PASS

	2422	Ant1	2390.0	-43.69	2.0	0	53.54	PEAK	74	PASS
	2422	Ant1	2390.0	-53.00	2.0	0	44.23	AV	54	PASS
	2452	Ant1	2483.5	-41.65	2.0	0	55.58	PEAK	74	PASS
	2452	Ant1	2483.5	-51.98	2.0	0	45.25	AV	54	PASS
	2452	Ant1	2500.0	-42.37	2.0	0	54.86	PEAK	74	PASS
	2452	Ant1	2500.0	-52.59	2.0	0	44.64	AV	54	PASS

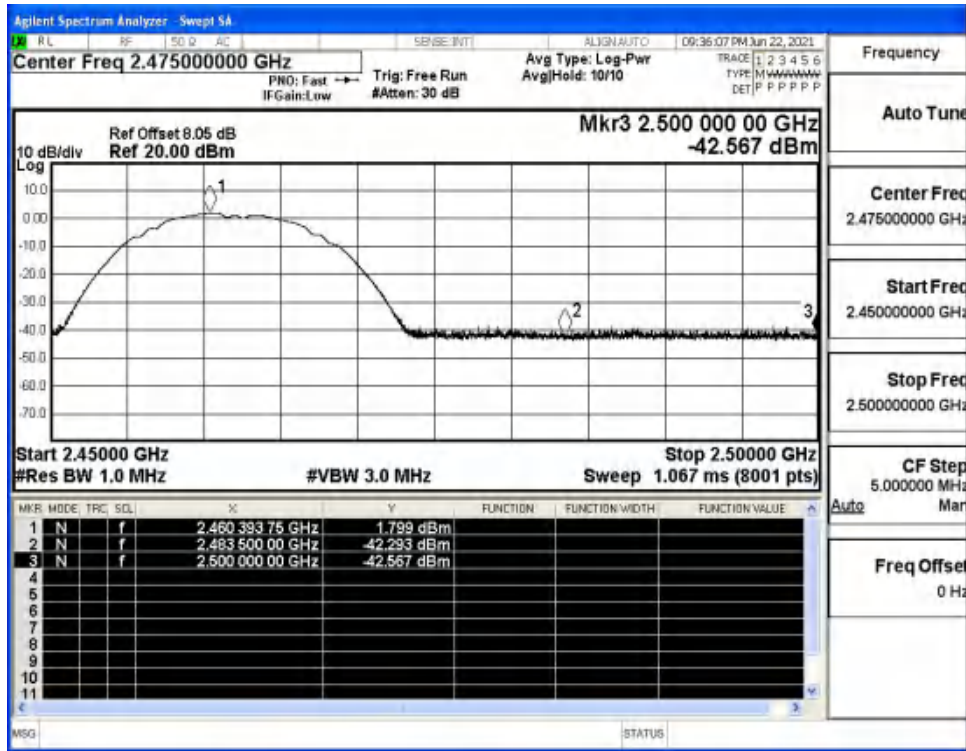
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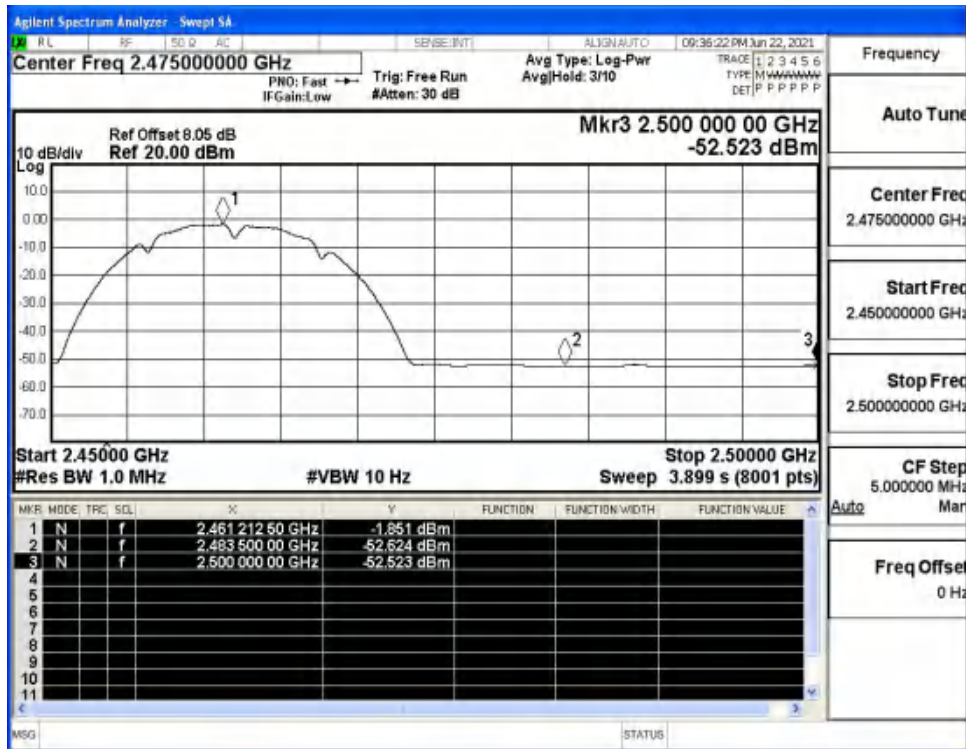
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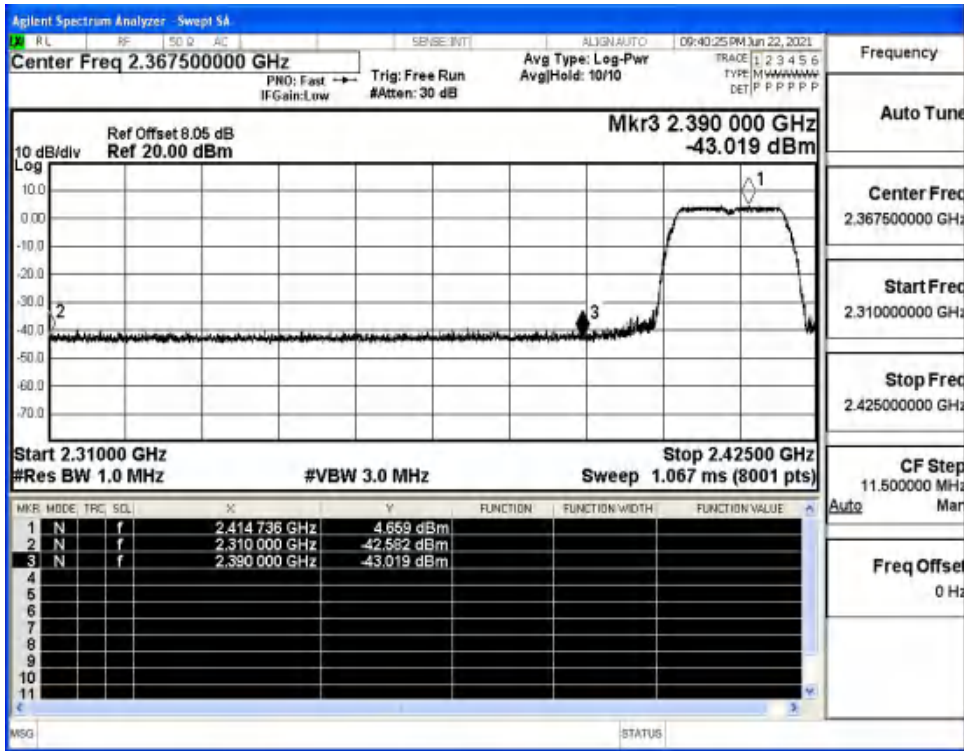


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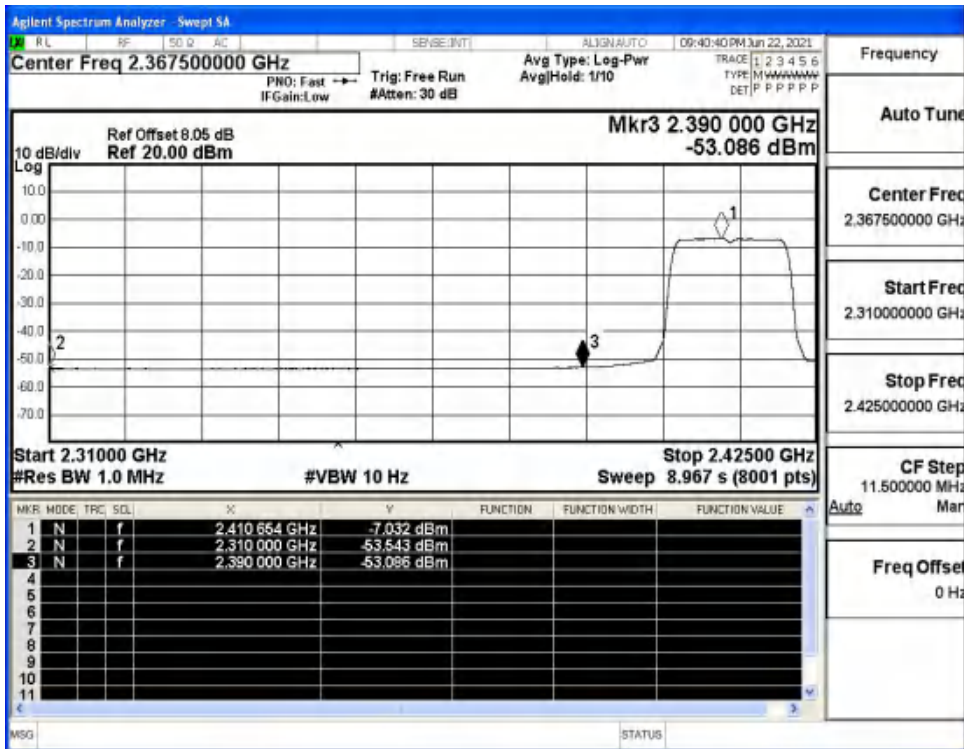




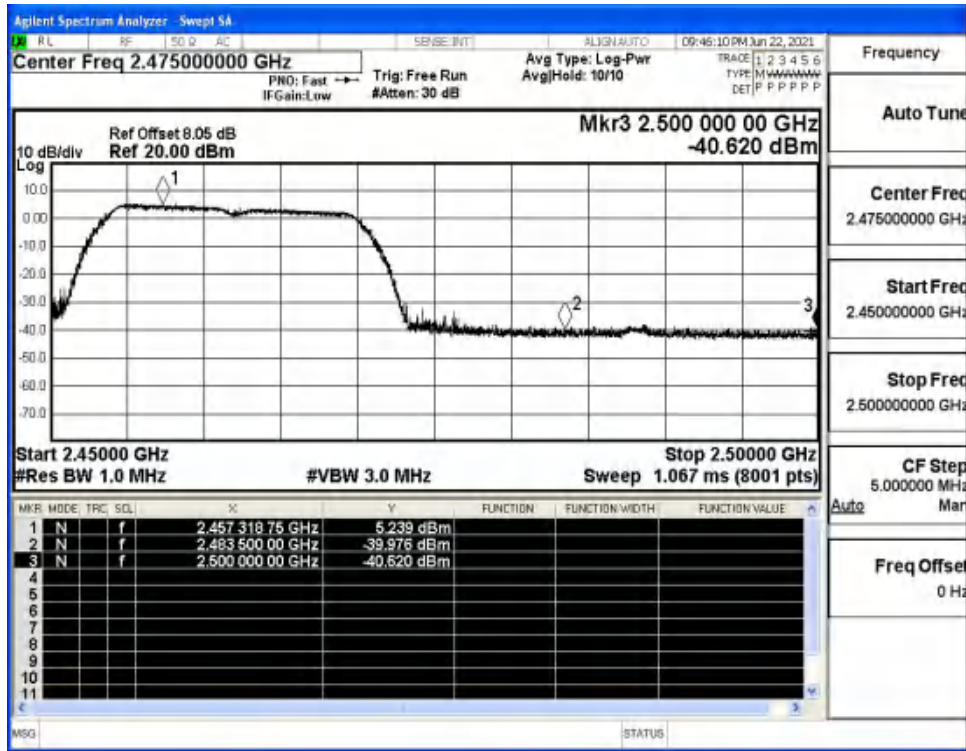
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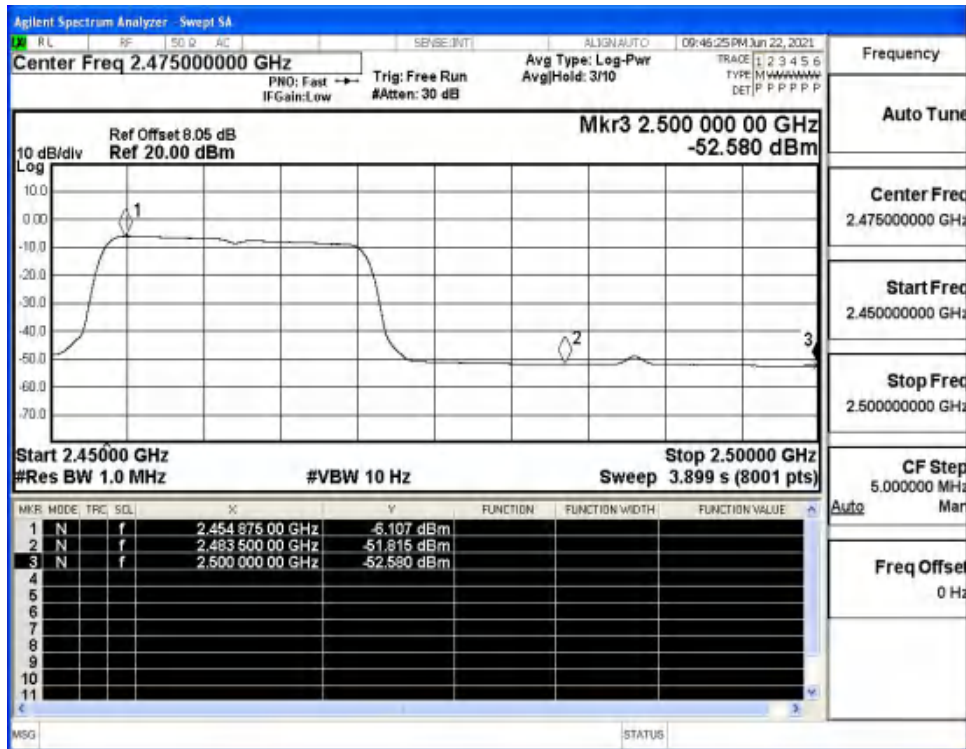
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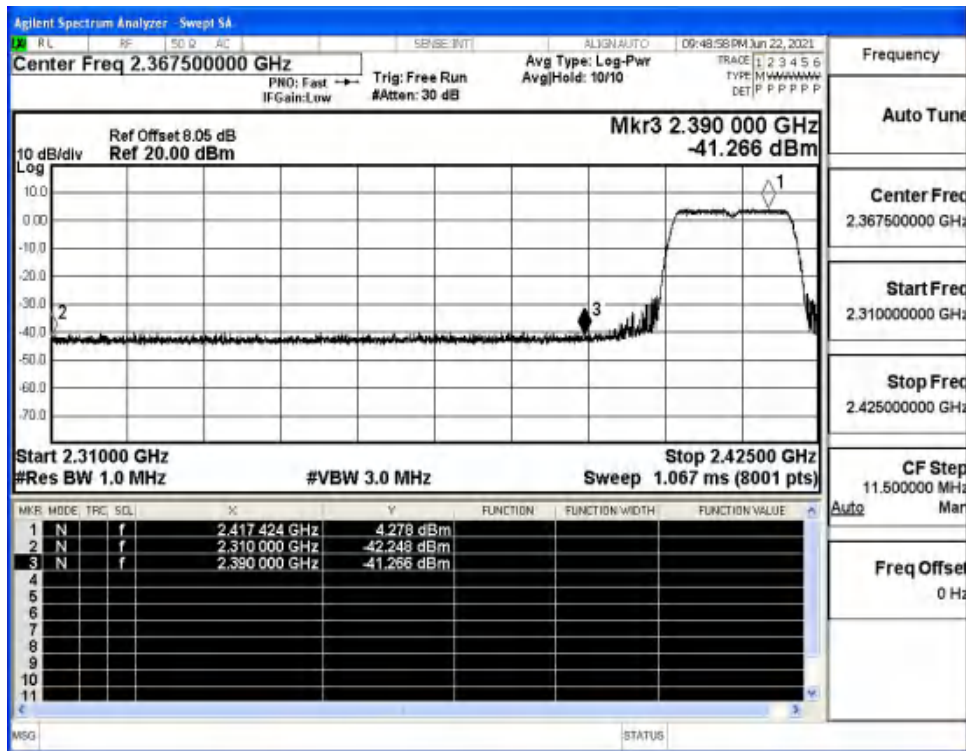
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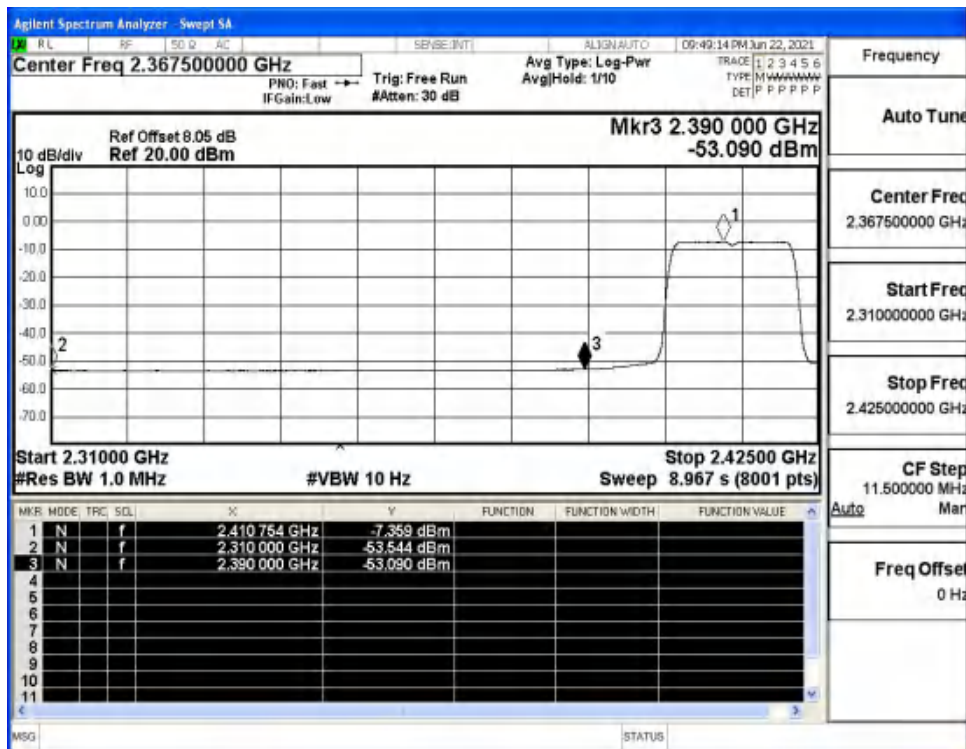
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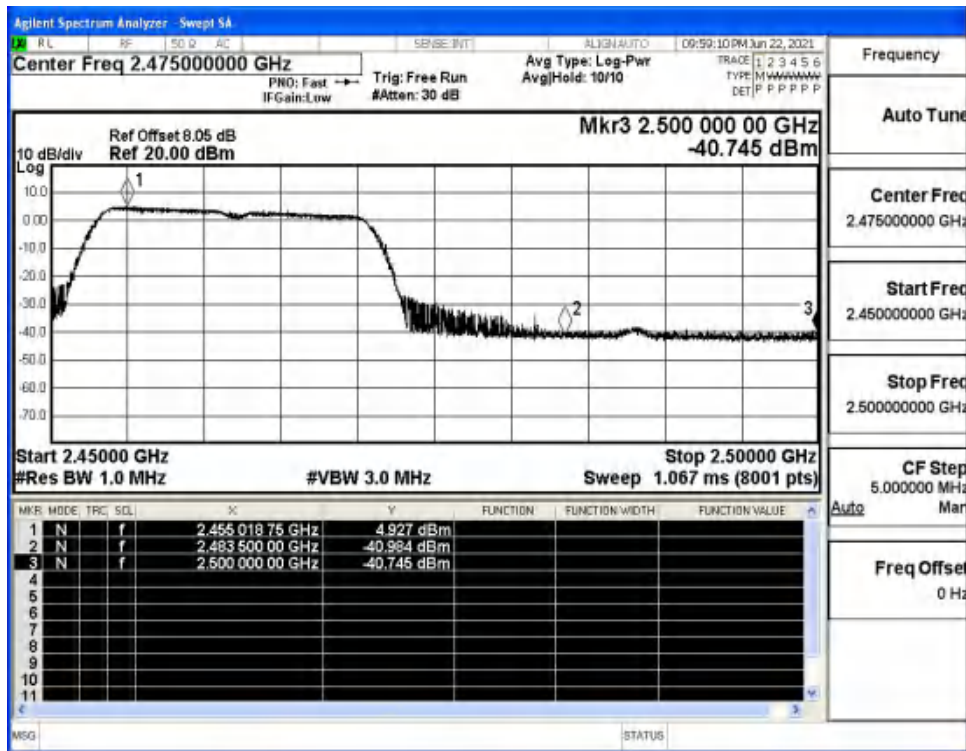
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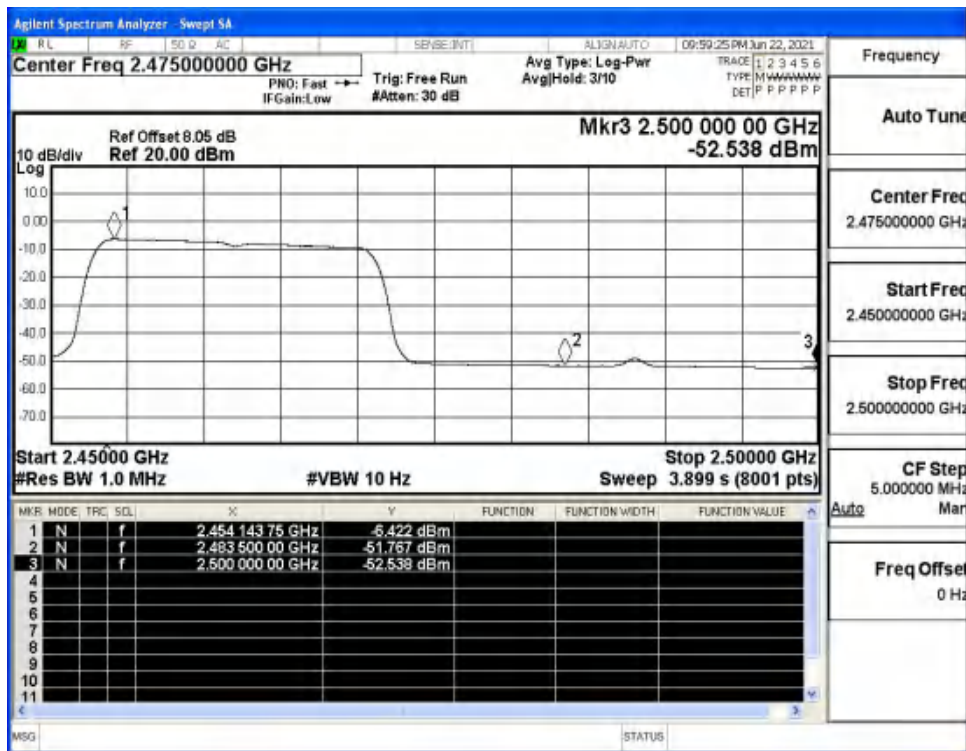
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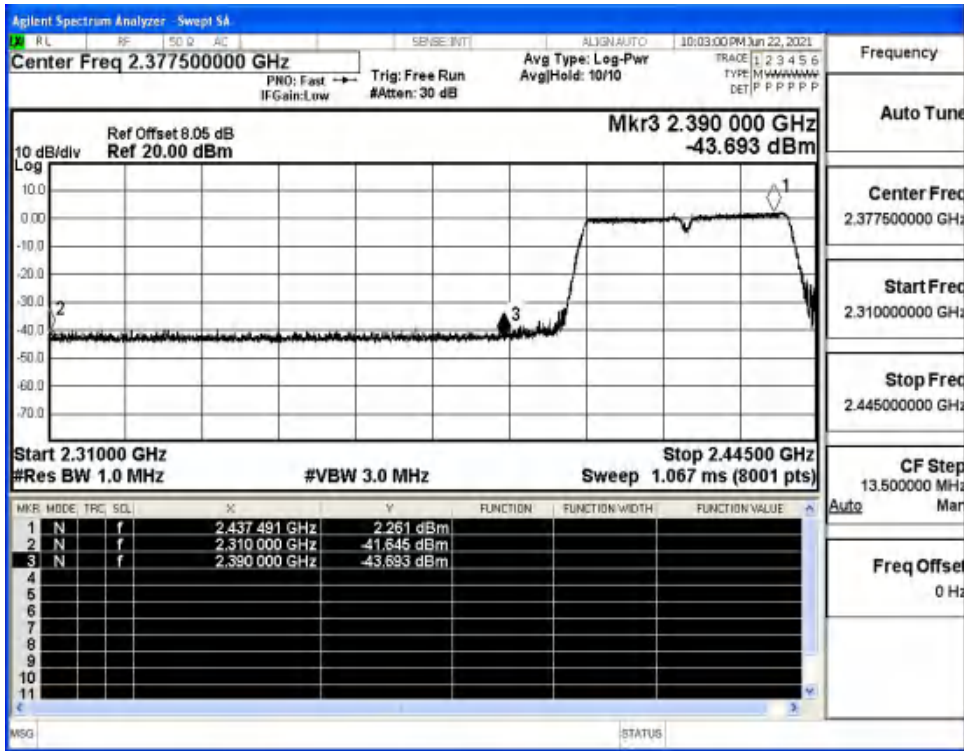
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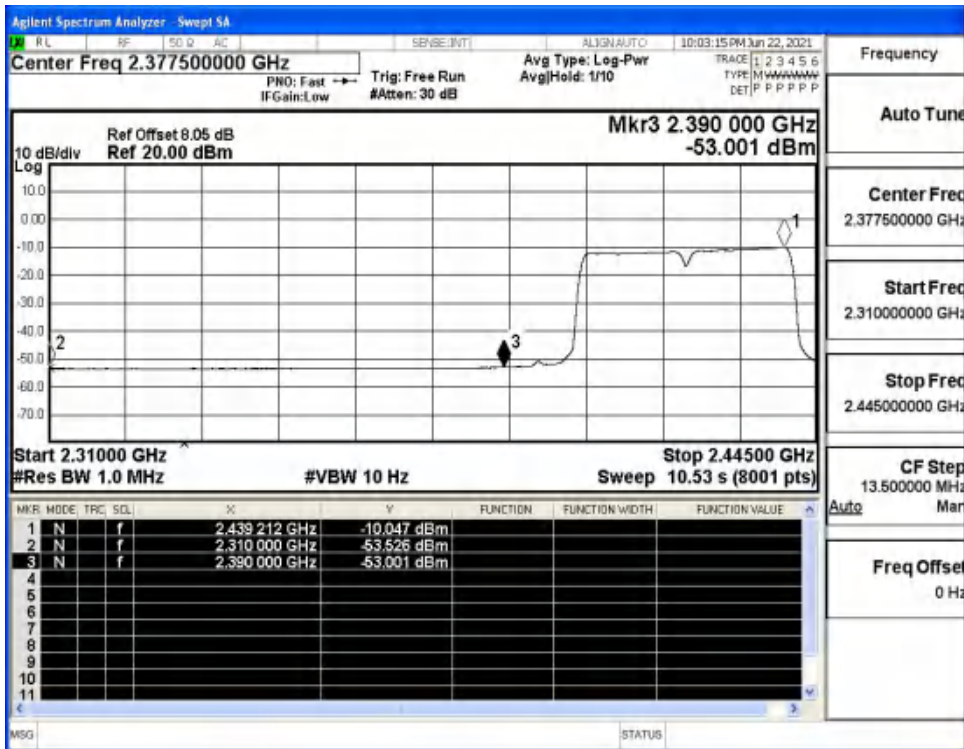
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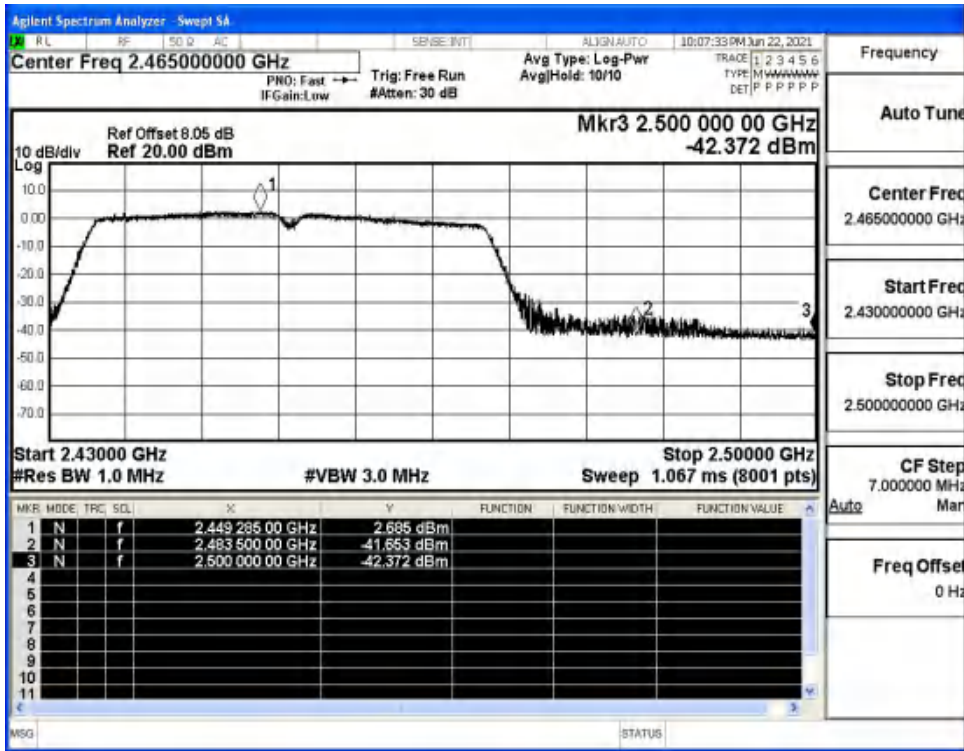
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Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



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



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

