

## Appendix A

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

Product Name: wifi flood light

Trade Mark: N/A

Test Model: SFGD-002

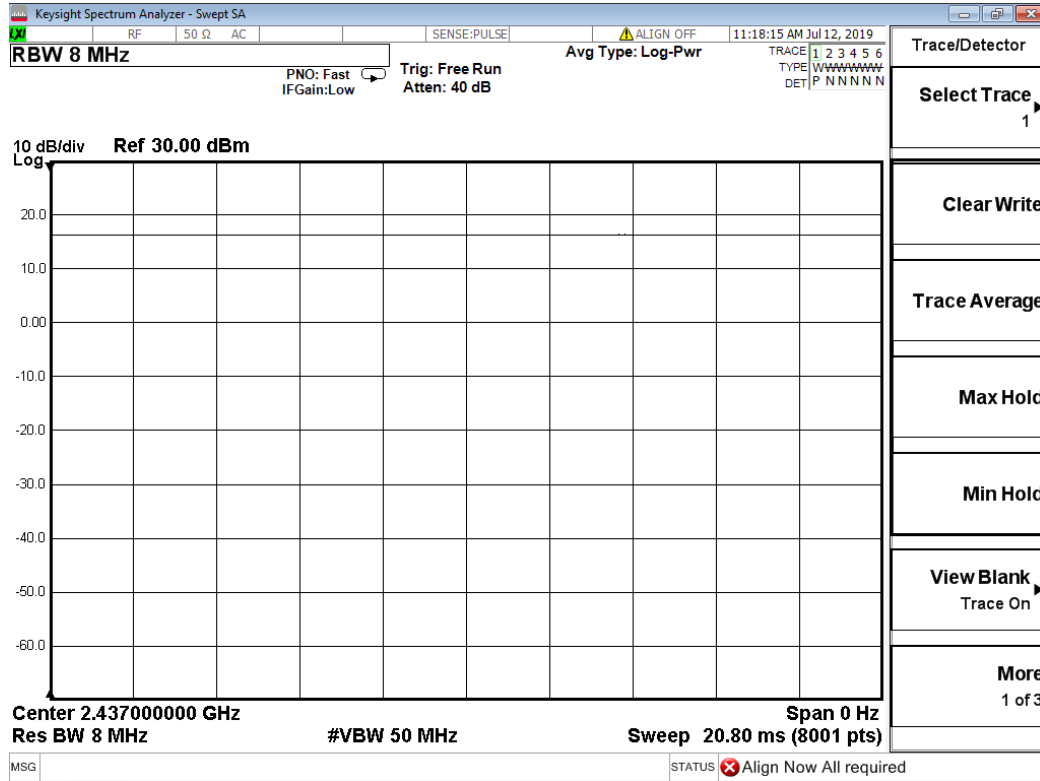
#### Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	JAYDEN ZHUO

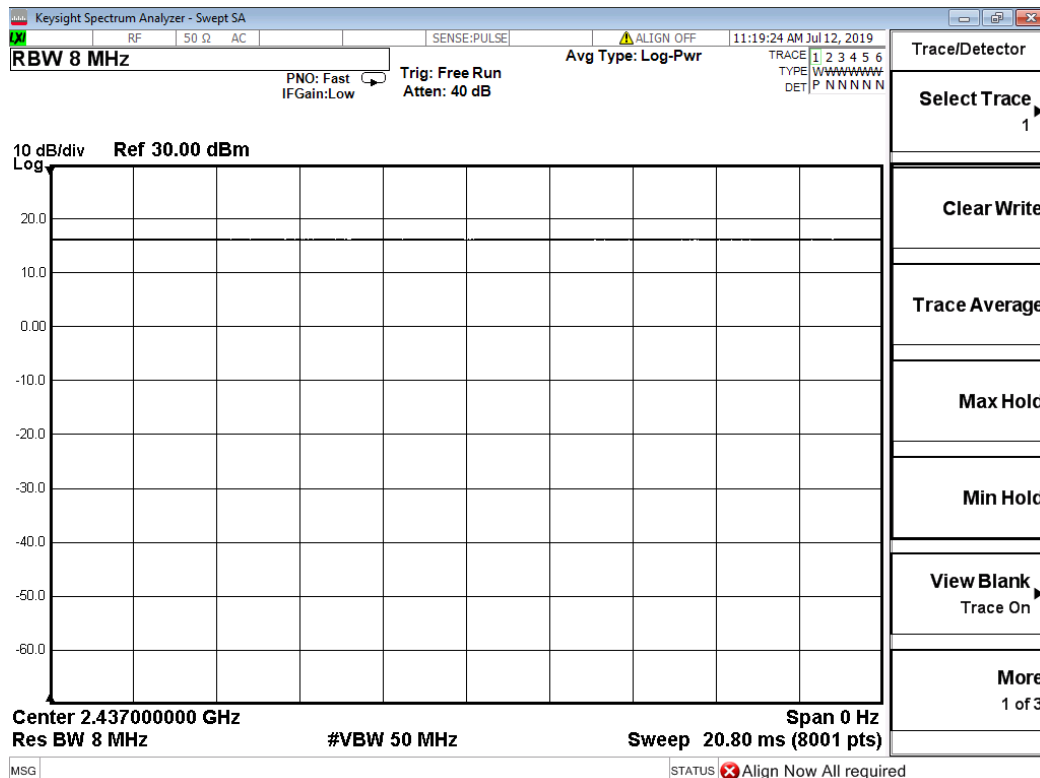
#### A.1 Duty Cycle

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

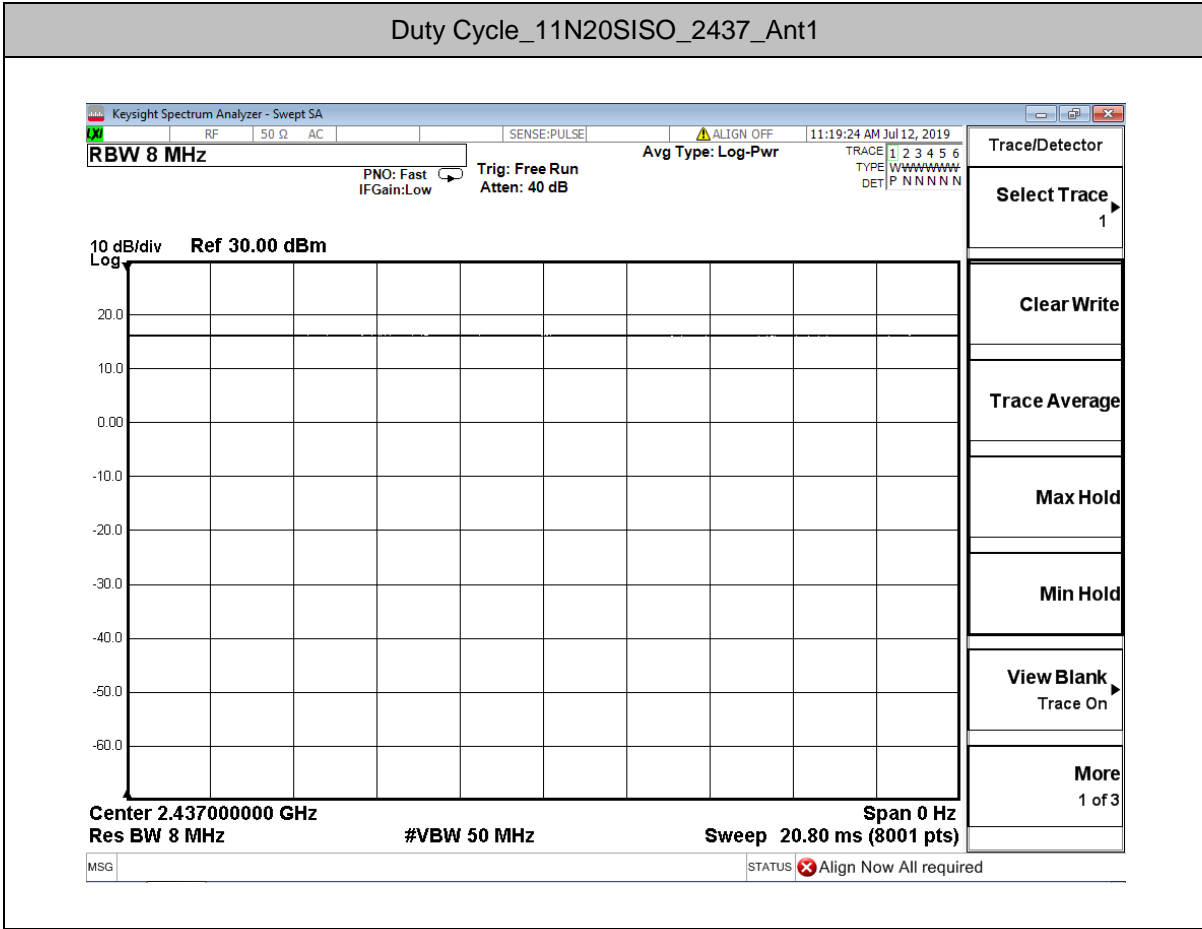
Duty Cycle\_11B\_2437\_Ant1



Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1

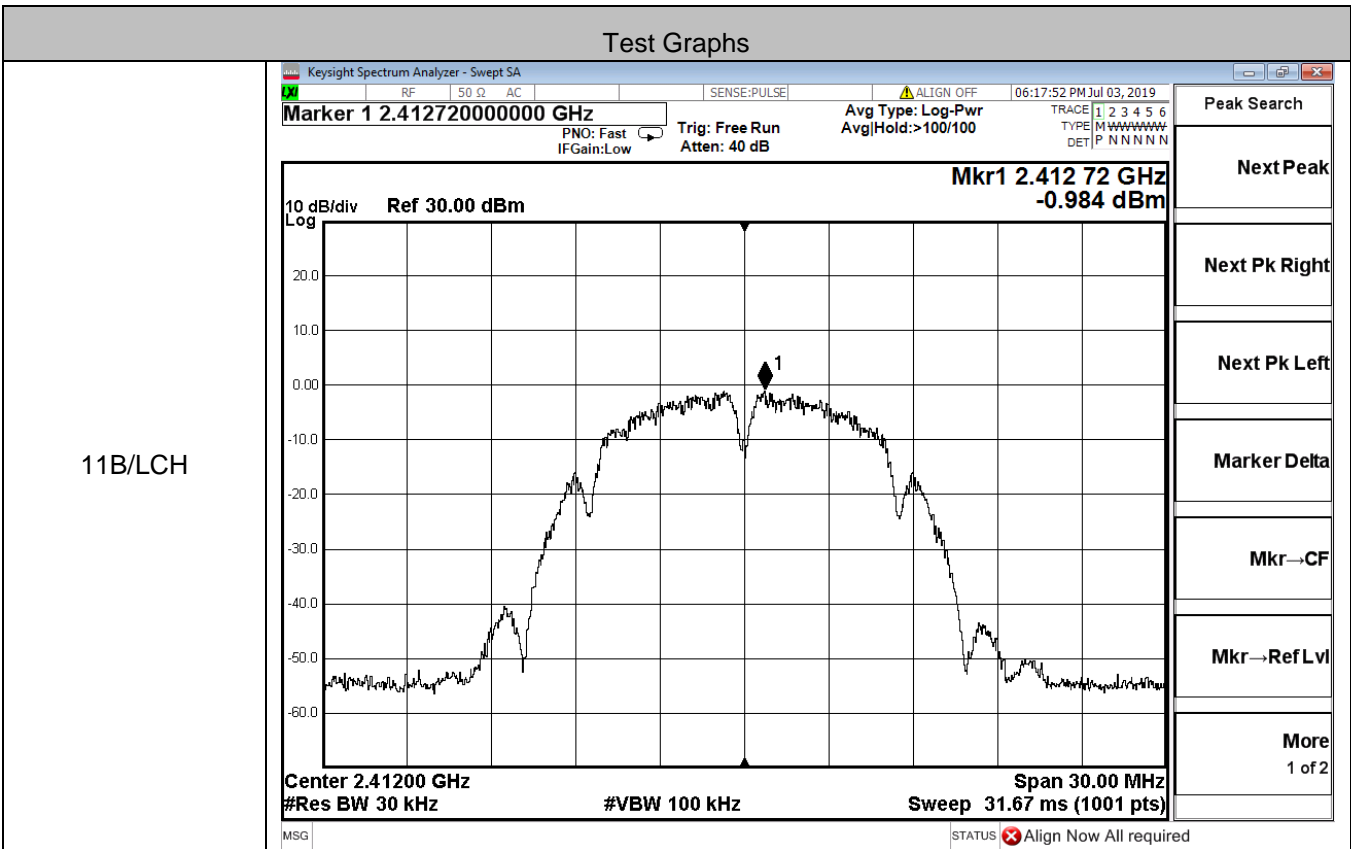


## A.2 Maximum Conducted Output Power

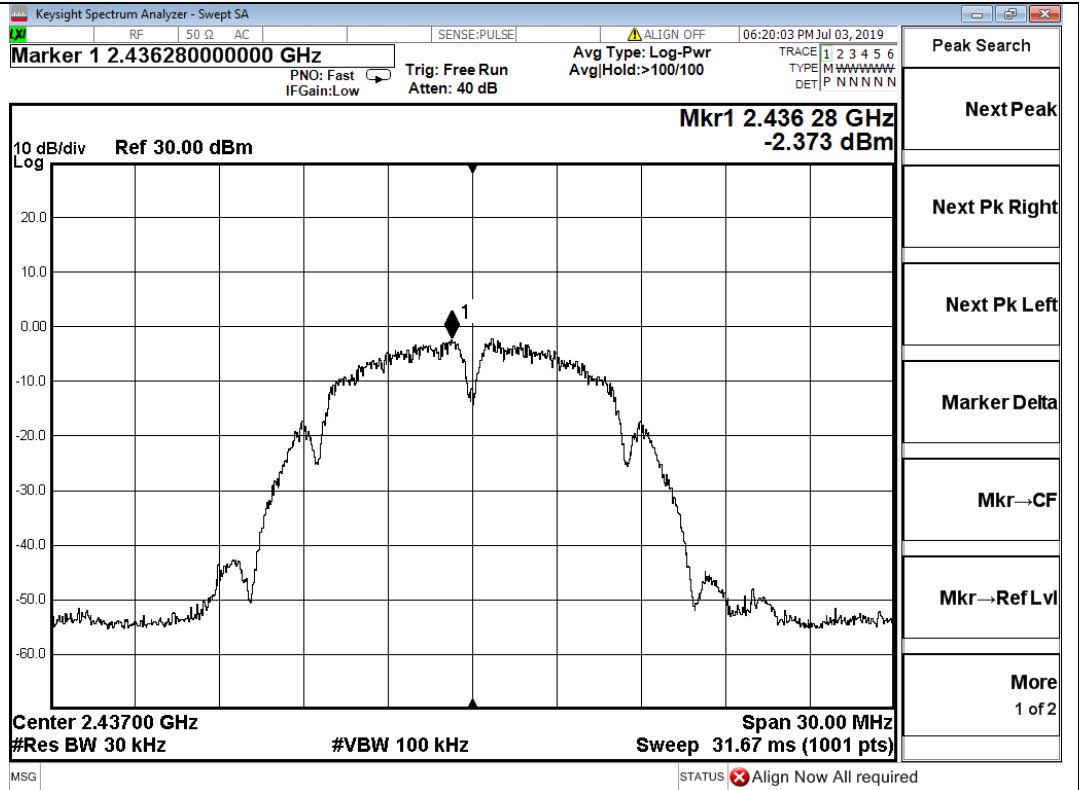
Mode	Channel	Meas. Peak Level [dBm]	Limit [dBm]	Verdict
11B	LCH	18.539	30	PASS
	MCH	17.258	30	PASS
	HCH	15.901	30	PASS
11G	LCH	18.390	30	PASS
	MCH	18.544	30	PASS
	HCH	18.083	30	PASS
11N20SISO	LCH	18.611	30	PASS
	MCH	17.815	30	PASS
	HCH	16.692	30	PASS

### A.3 Maximum Power Spectral Density

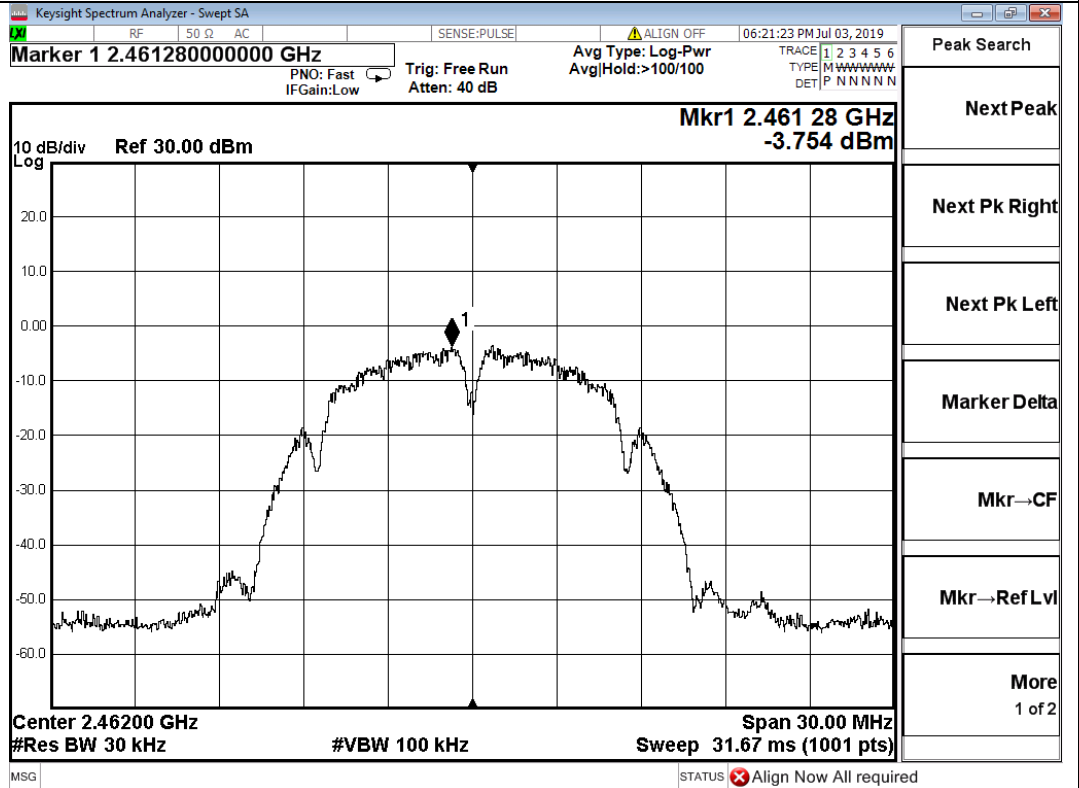
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-0.984	8	PASS
	MCH	-2.373	8	PASS
	HCH	-3.754	8	PASS
11G	LCH	-2.760	8	PASS
	MCH	-3.853	8	PASS
	HCH	-5.301	8	PASS
11N20SISO	LCH	-2.764	8	PASS
	MCH	-4.031	8	PASS
	HCH	-5.469	8	PASS



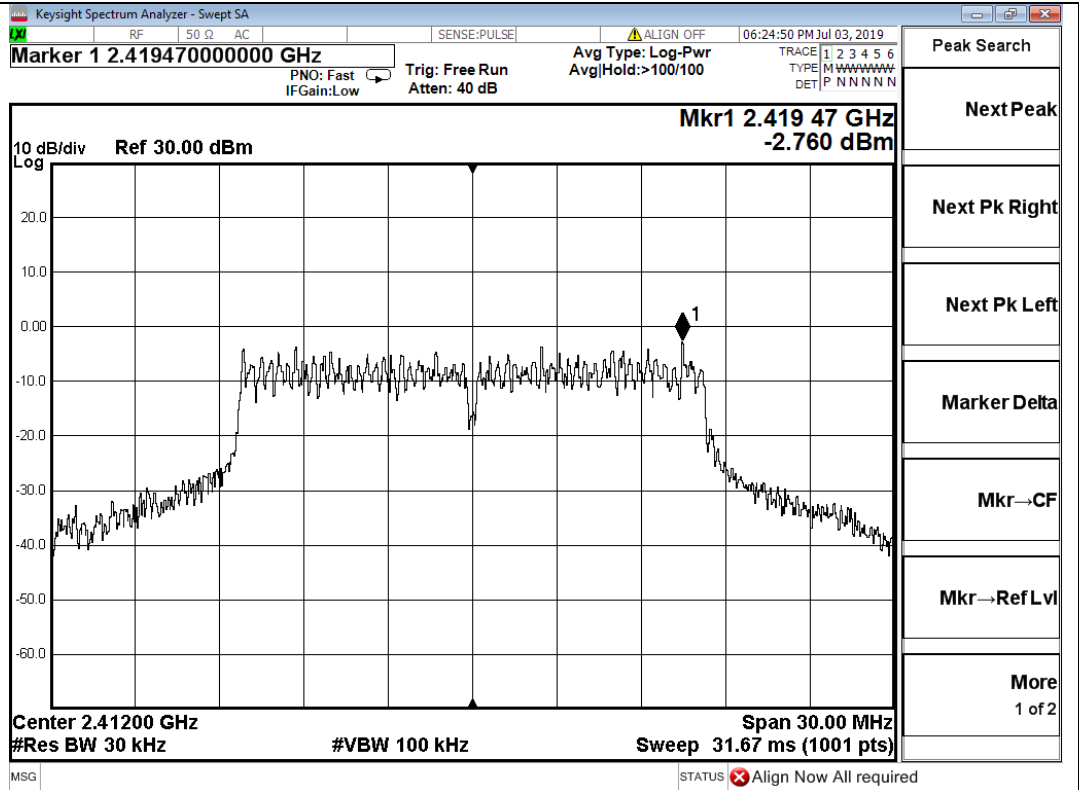
11B/MCH



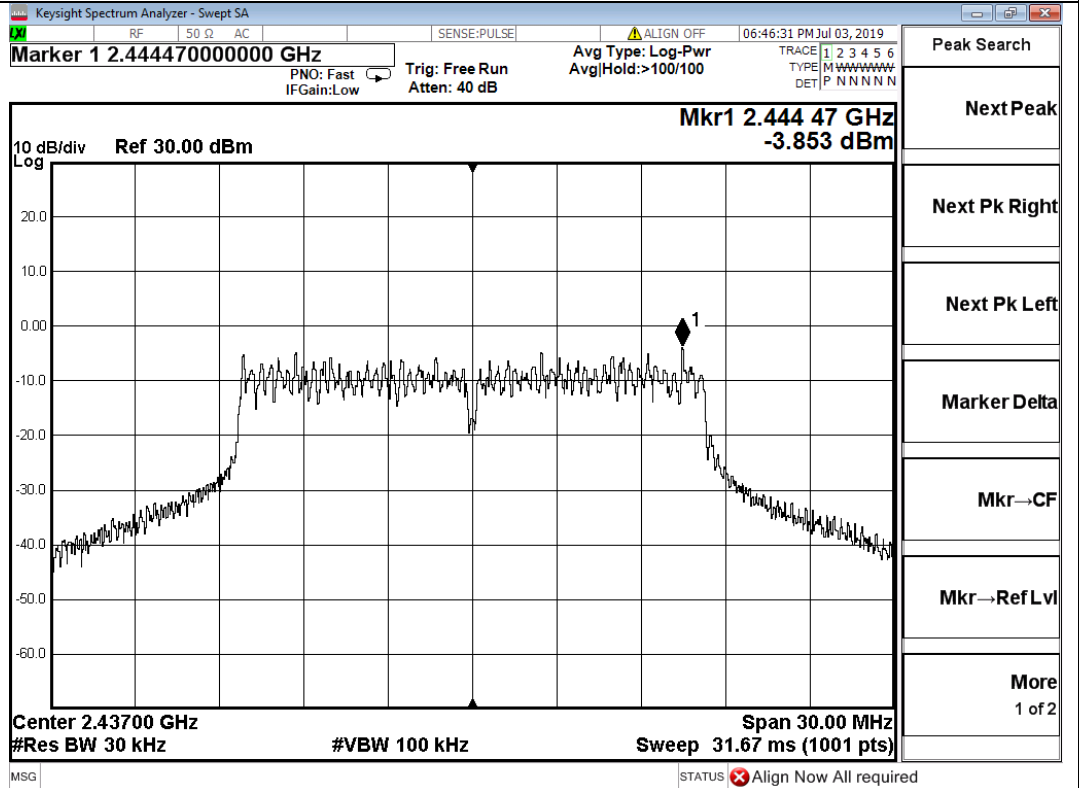
11B/HCH



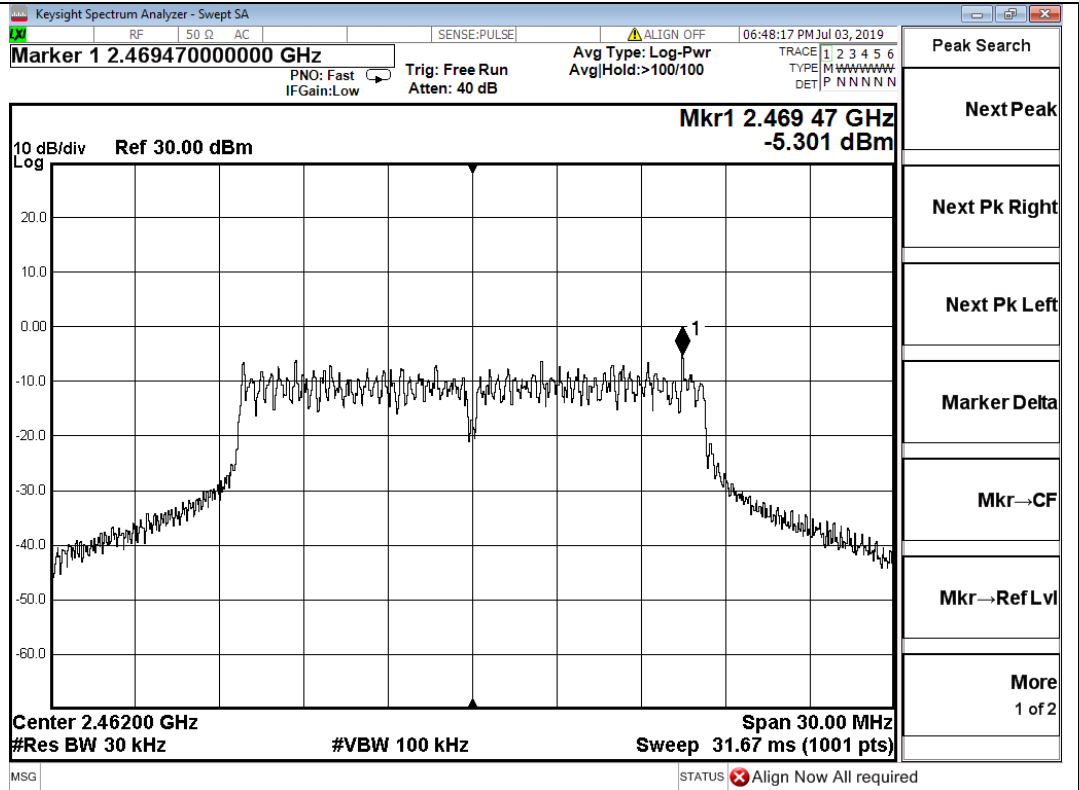
11G/LCH



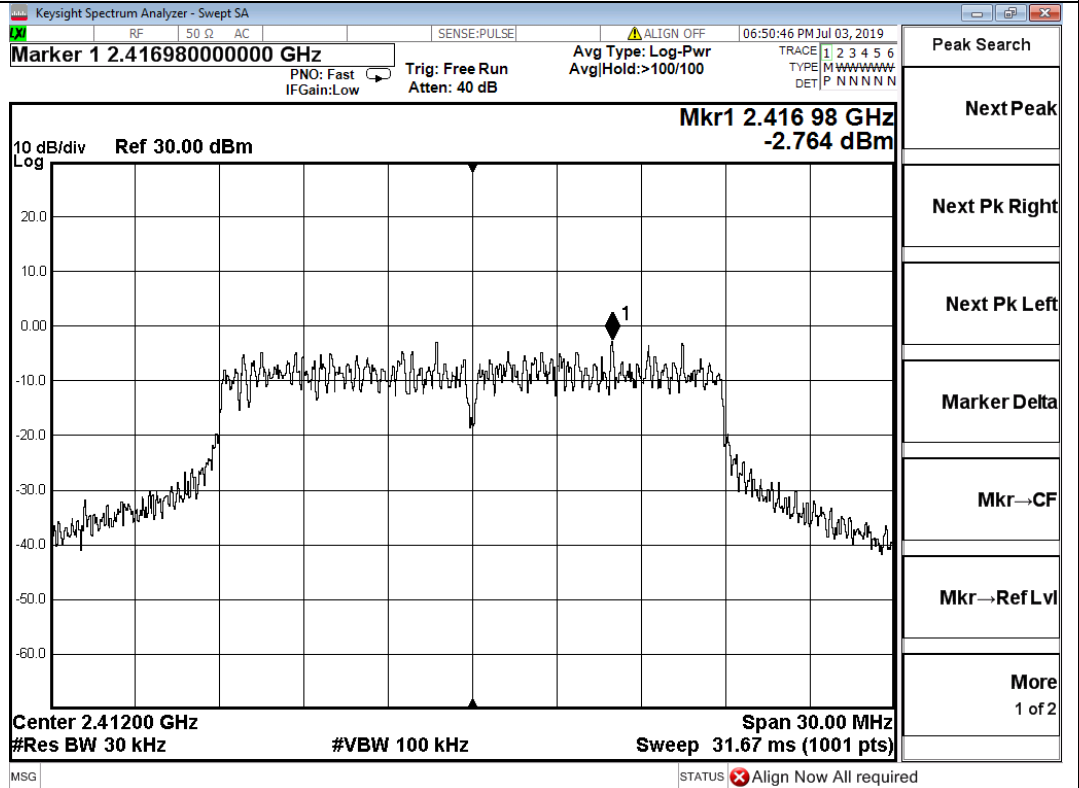
11G/MCH



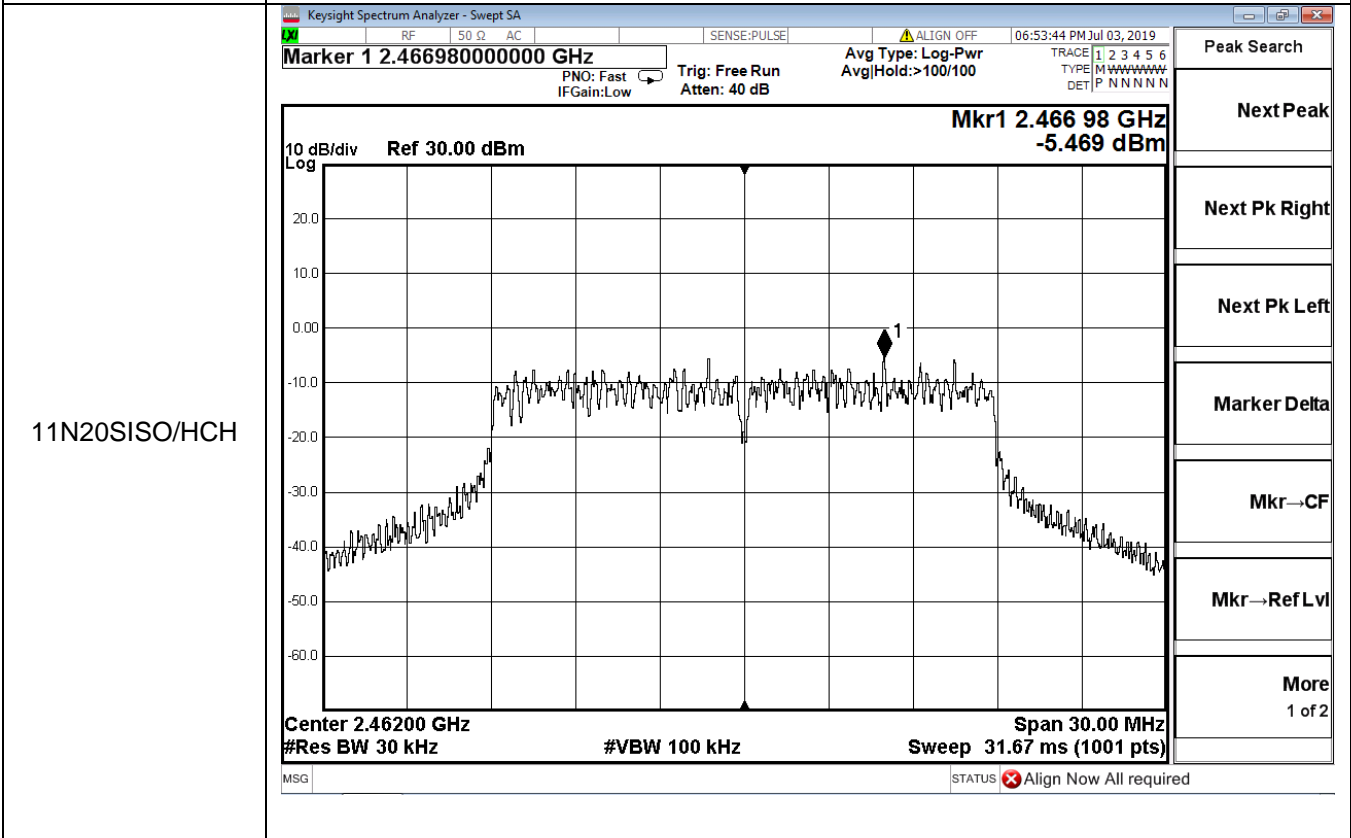
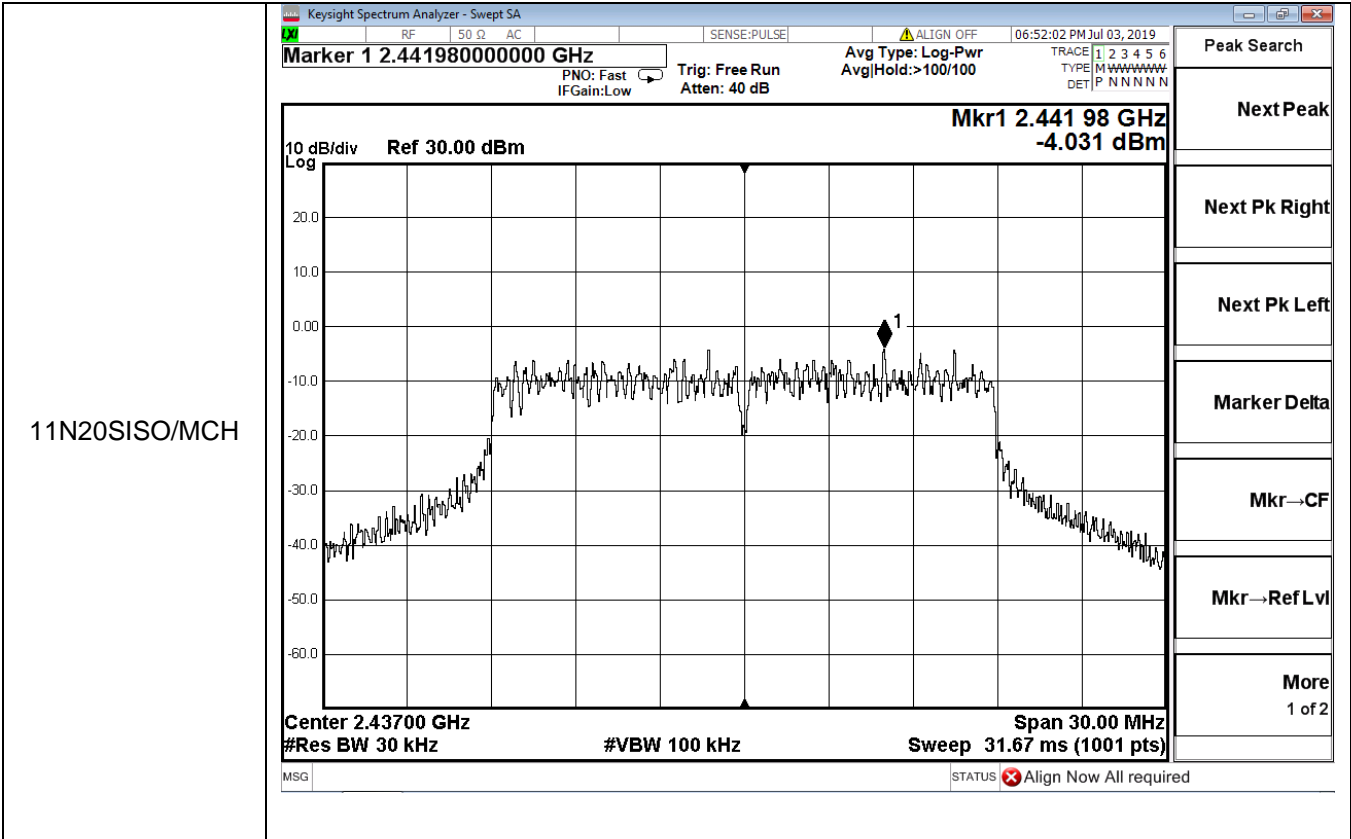
11G/HCH



11N20SISO/LCH

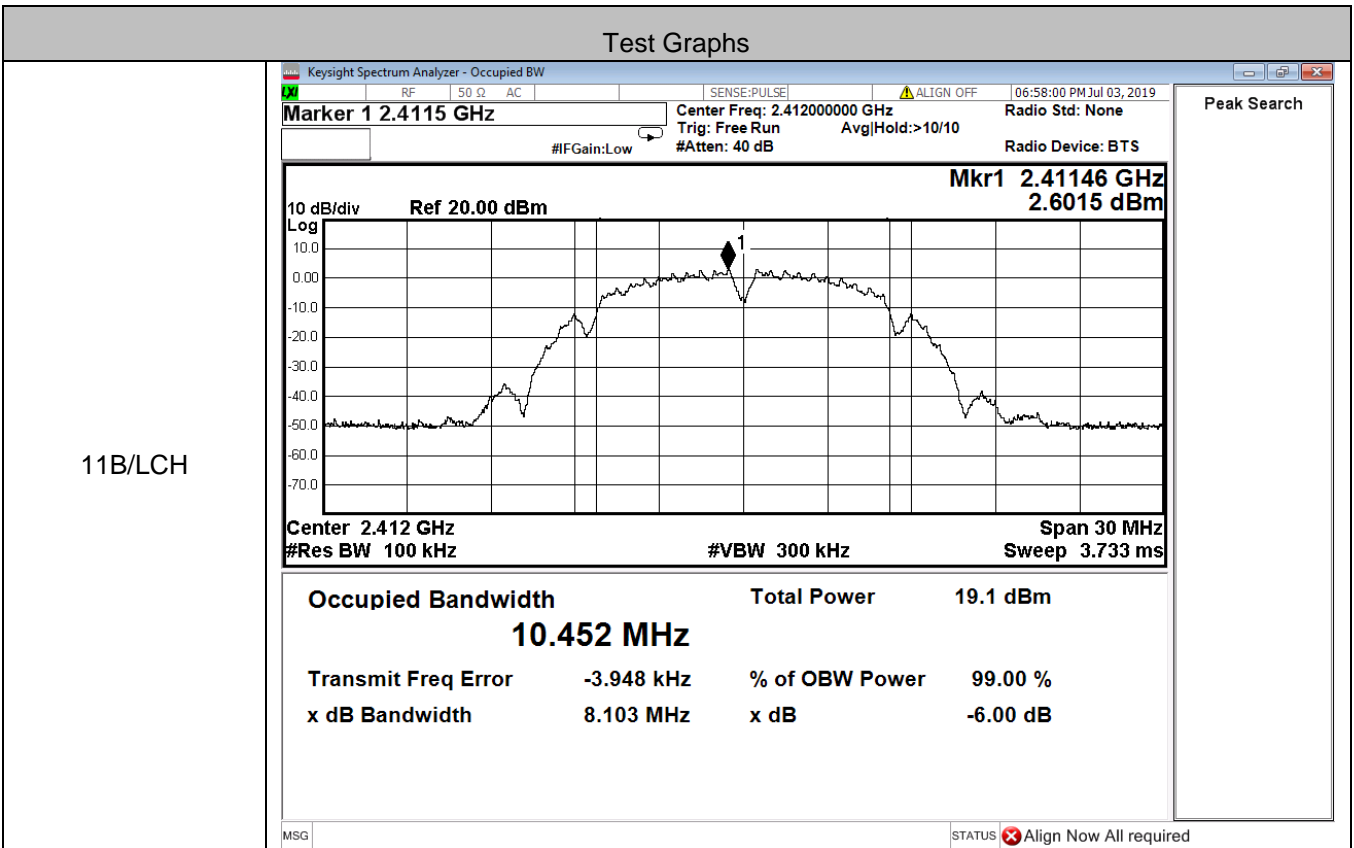




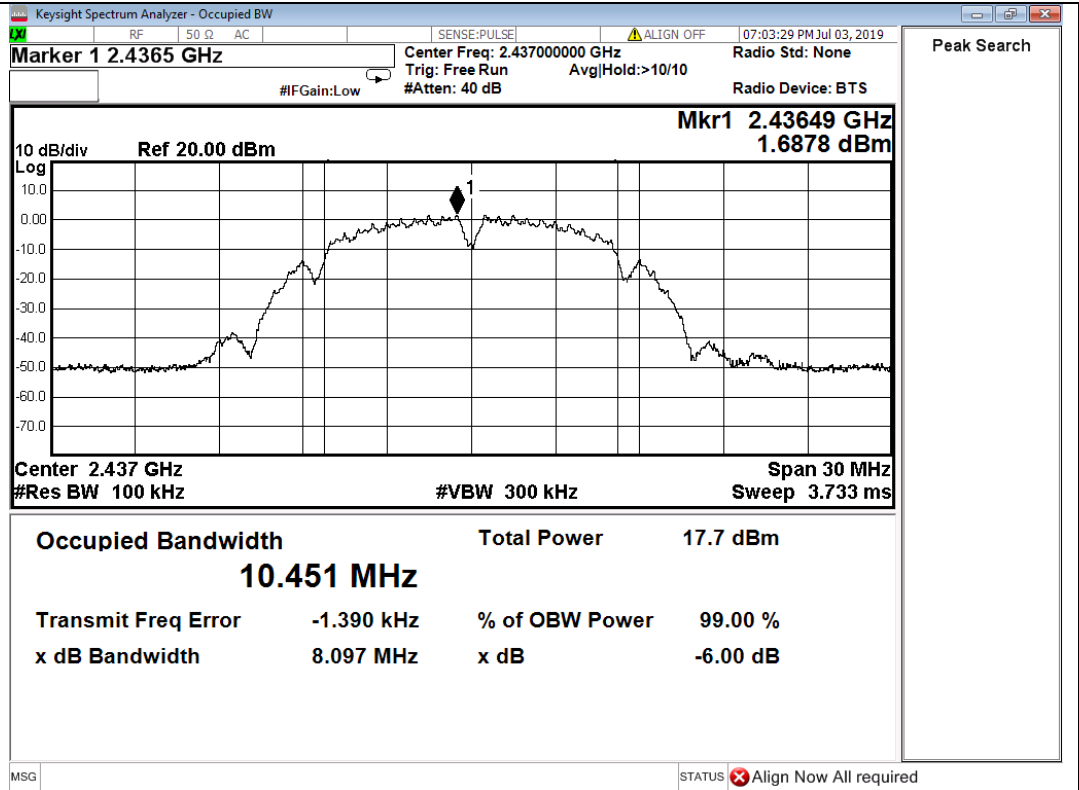


**A.4 6dB Bandwidth**

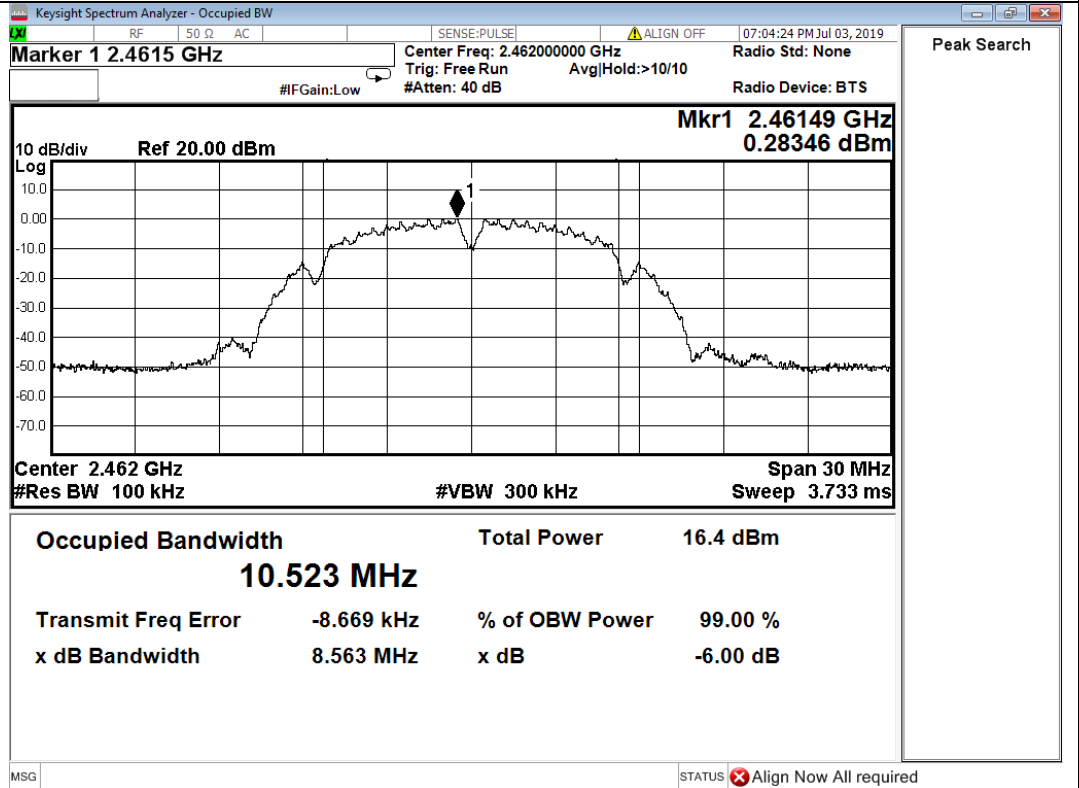
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.103	≥0.5	PASS
	MCH	8.097	≥0.5	PASS
	HCH	8.563	≥0.5	PASS
11G	LCH	16.35	≥0.5	PASS
	MCH	16.35	≥0.5	PASS
	HCH	16.36	≥0.5	PASS
11N20SISO	LCH	17.59	≥0.5	PASS
	MCH	17.59	≥0.5	PASS
	HCH	17.60	≥0.5	PASS



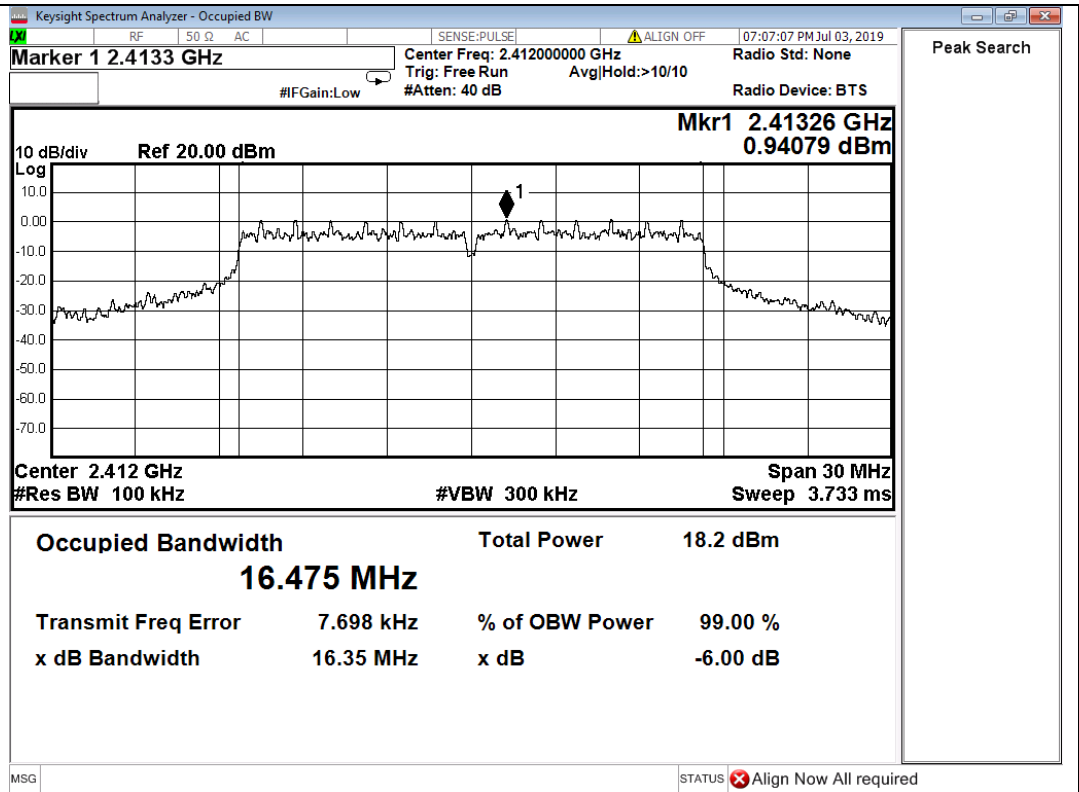
11B/MCH



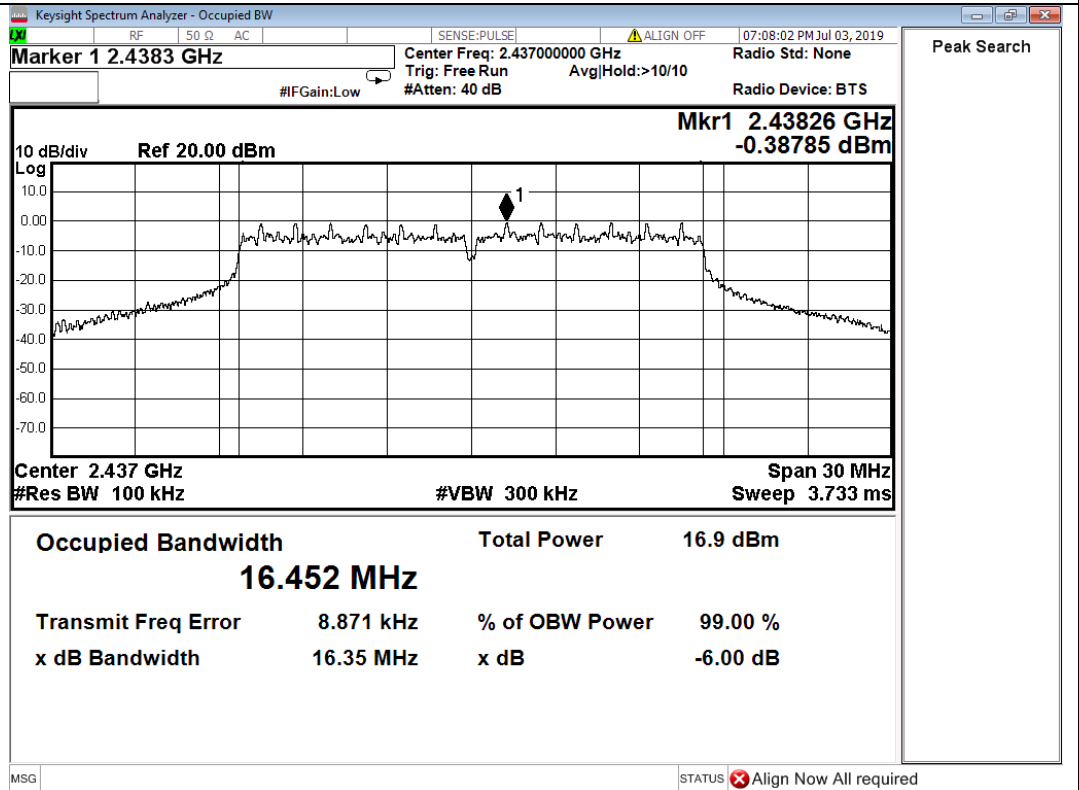
11B/HCH



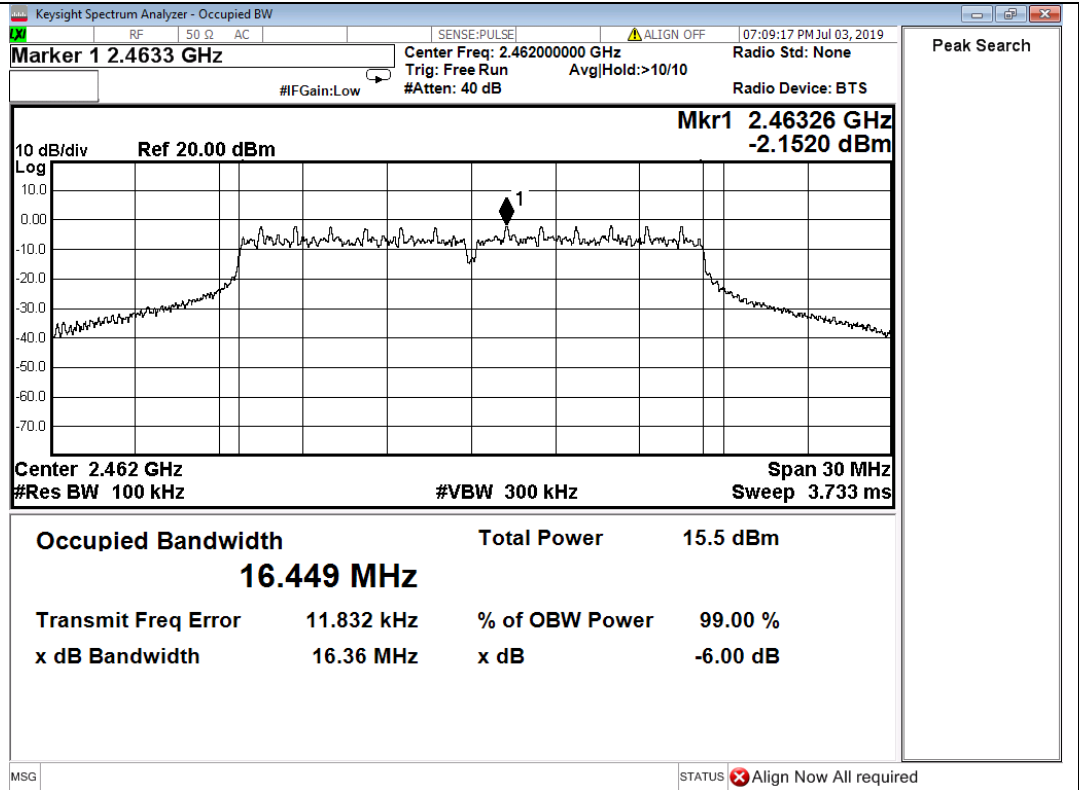
11G/LCH



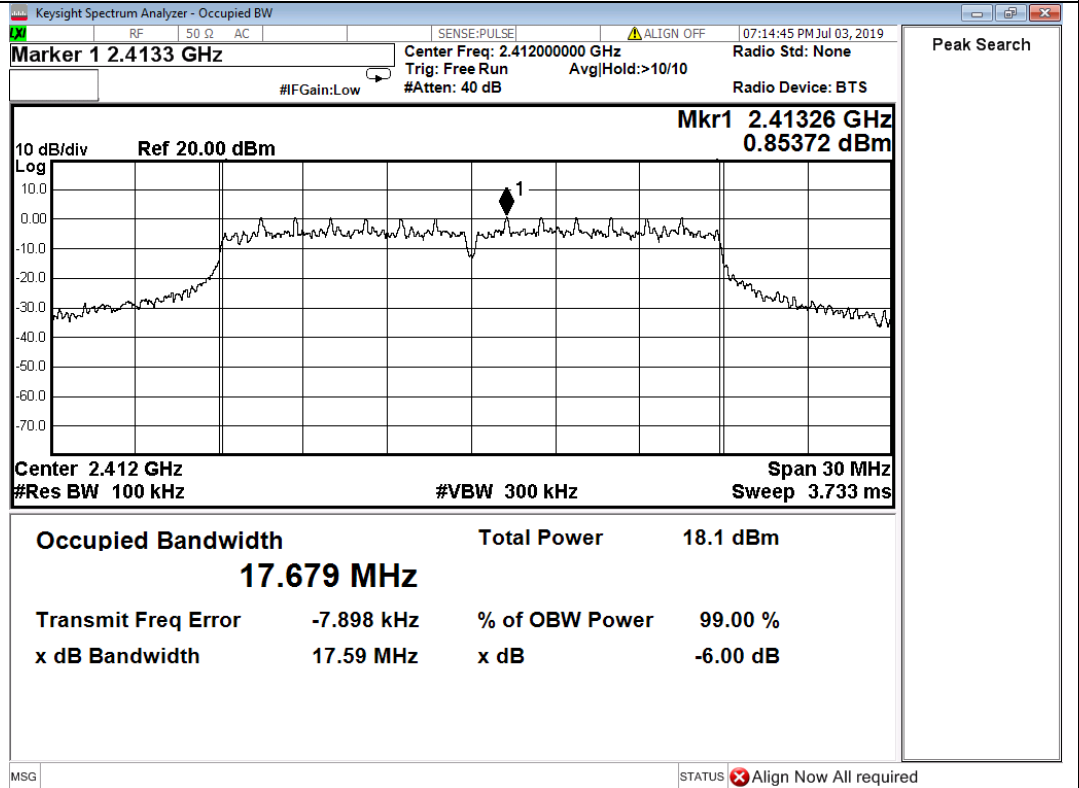
11G/MCH



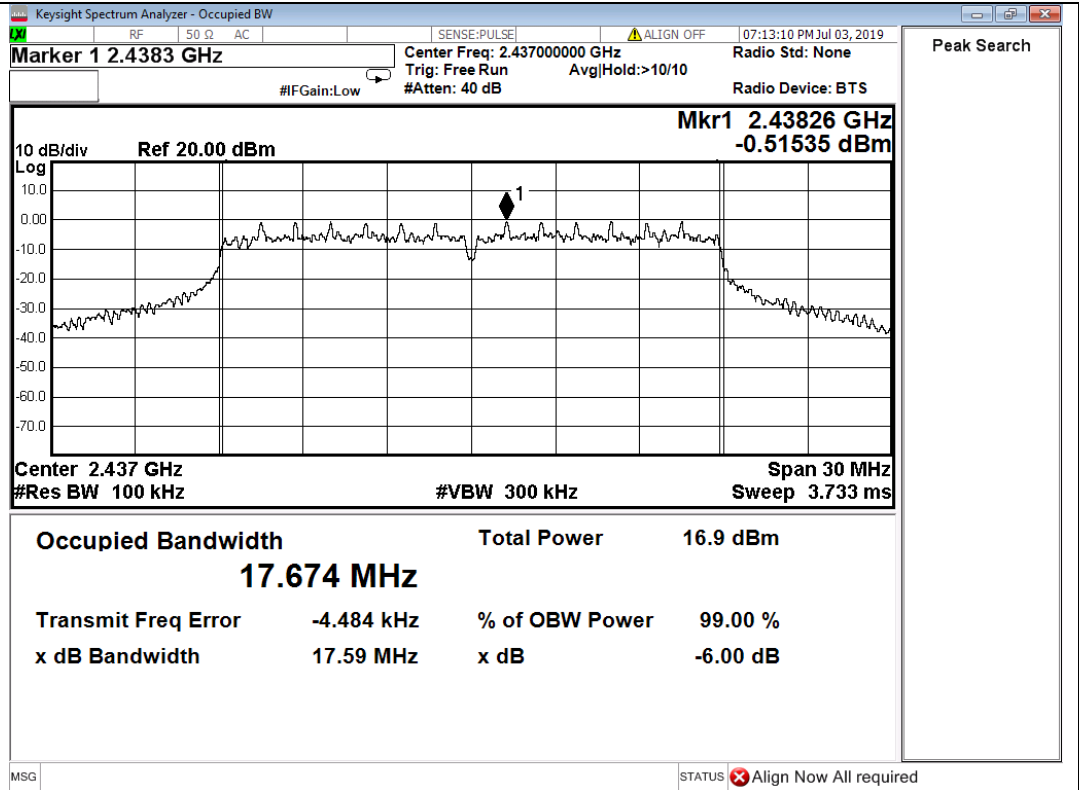
11G/HCH



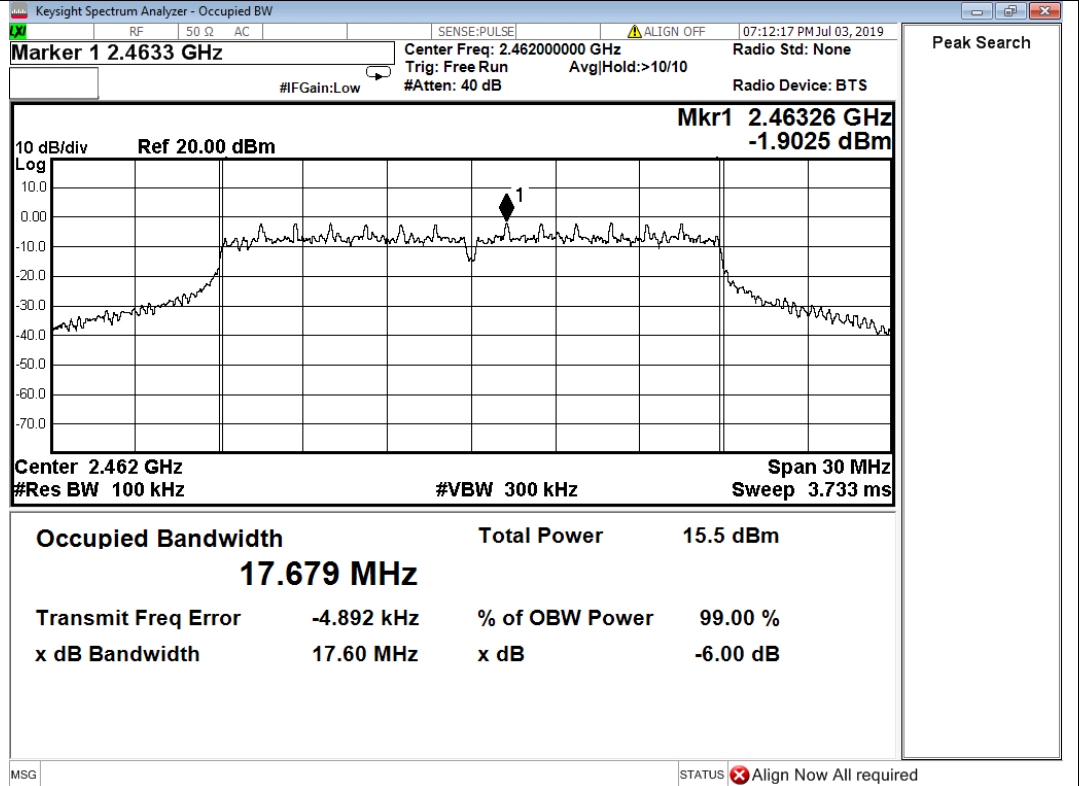
11N20SISO/LCH



11N20SISO/MCH



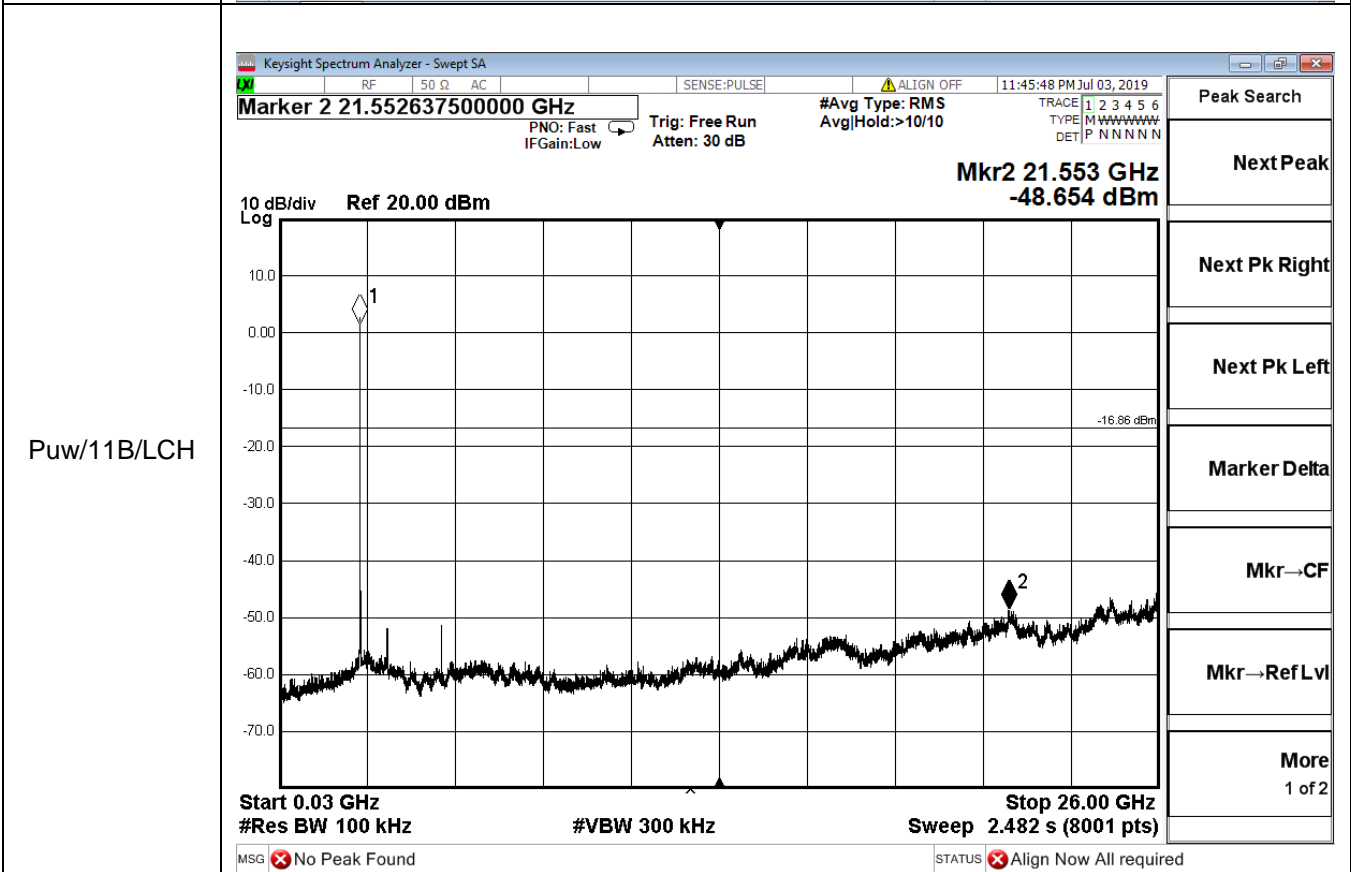
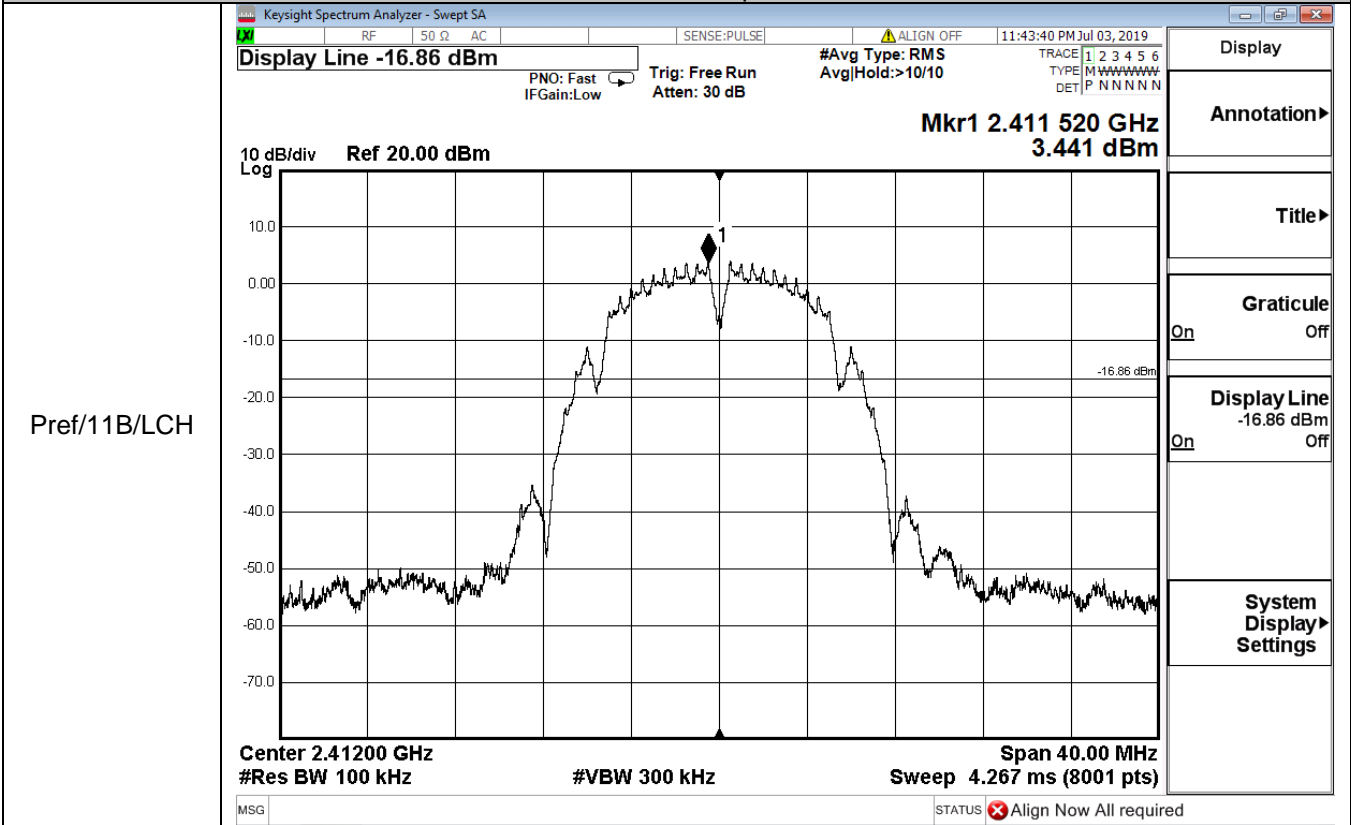
11N20SISO/HCH



**B.5 RF Conducted Spurious Emissions**

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.441	-48.654	-16.56	PASS
	MCH	2.738	-49.995	-17.26	PASS
	HCH	1.126	-46.483	-18.87	PASS
11G	LCH	1.701	-46.476	-18.30	PASS
	MCH	0.658	-47.171	-19.34	PASS
	HCH	-0.956	-46.909	-20.96	PASS
11N20 SISO	LCH	1.840	-46.391	-18.16	PASS
	MCH	0.721	-46.709	-19.28	PASS
	HCH	-0.889	-46.403	-20.89	PASS

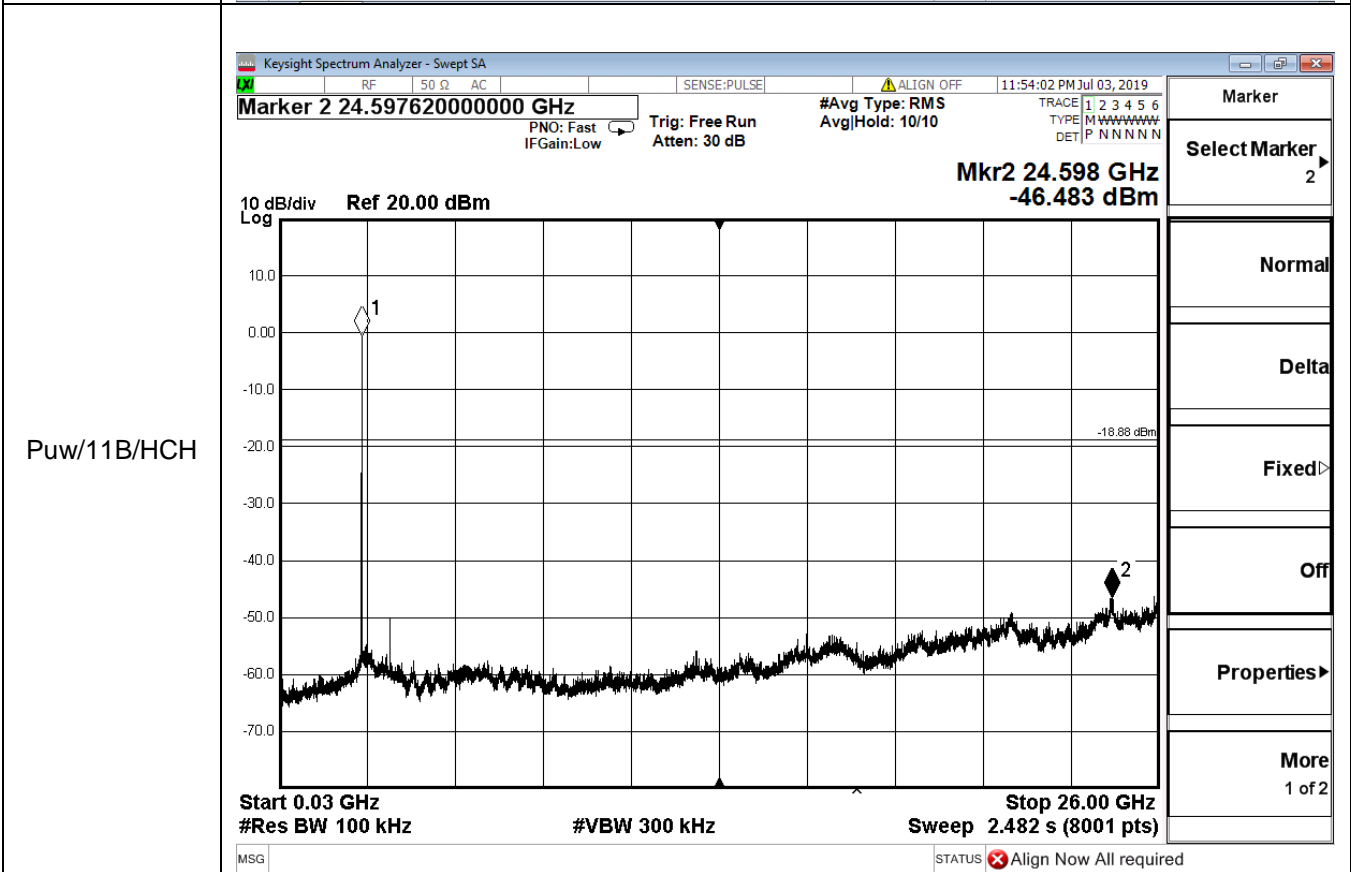
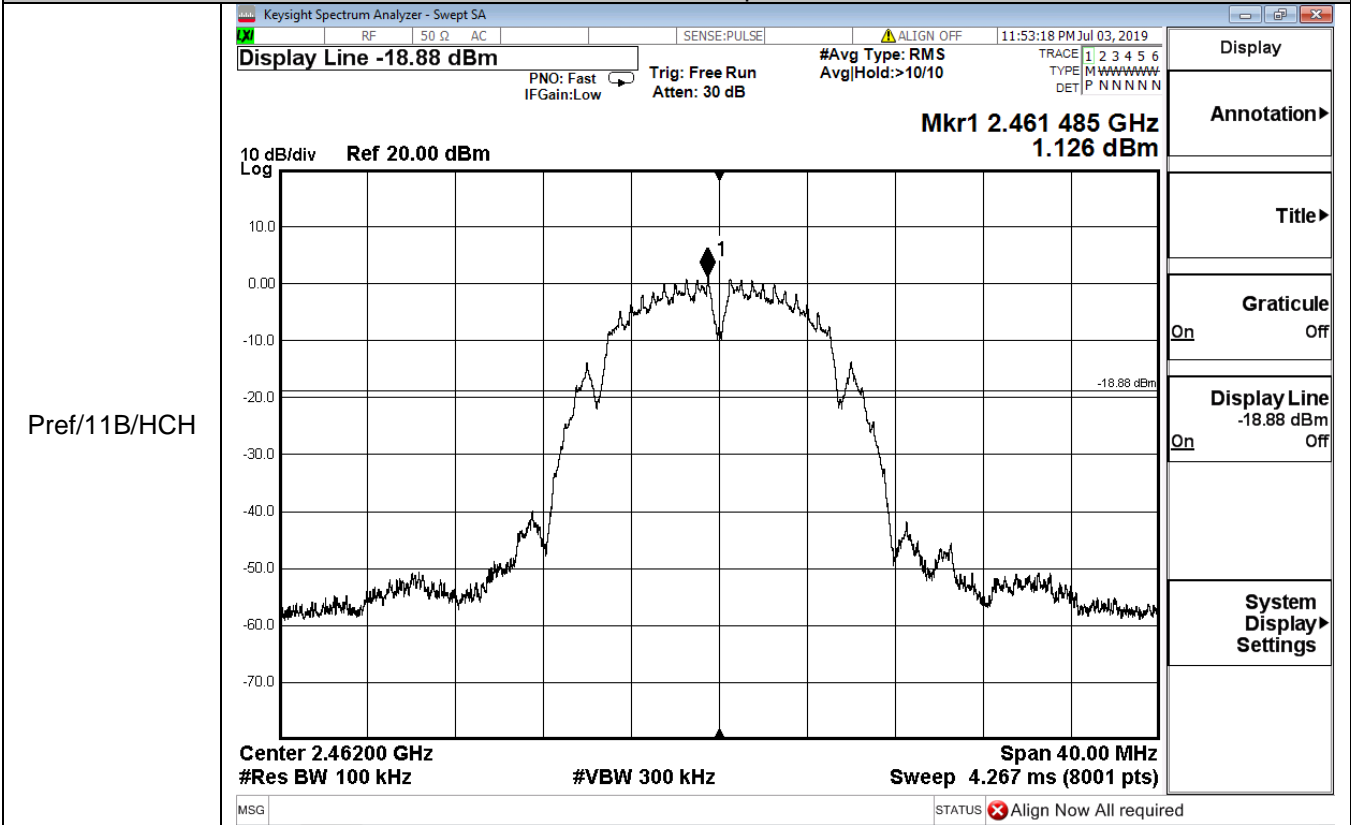
11B\_LCH\_Graphs







11B\_HCH\_Graphs

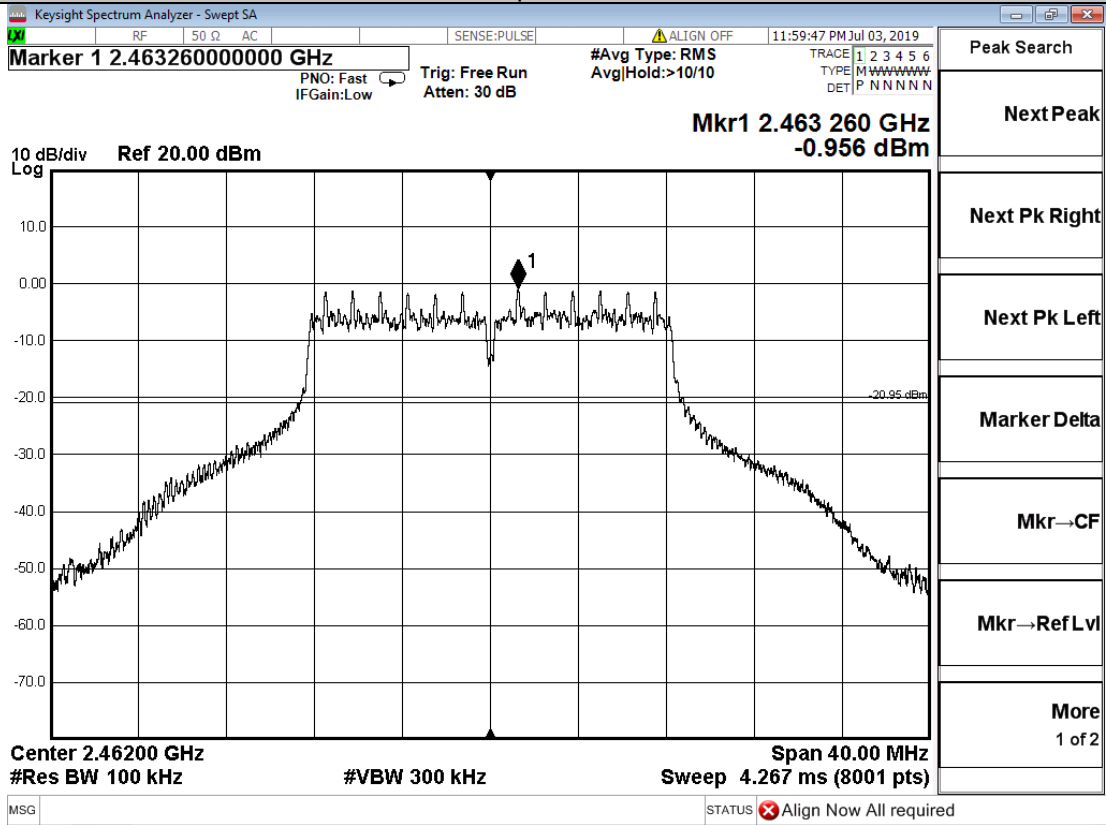




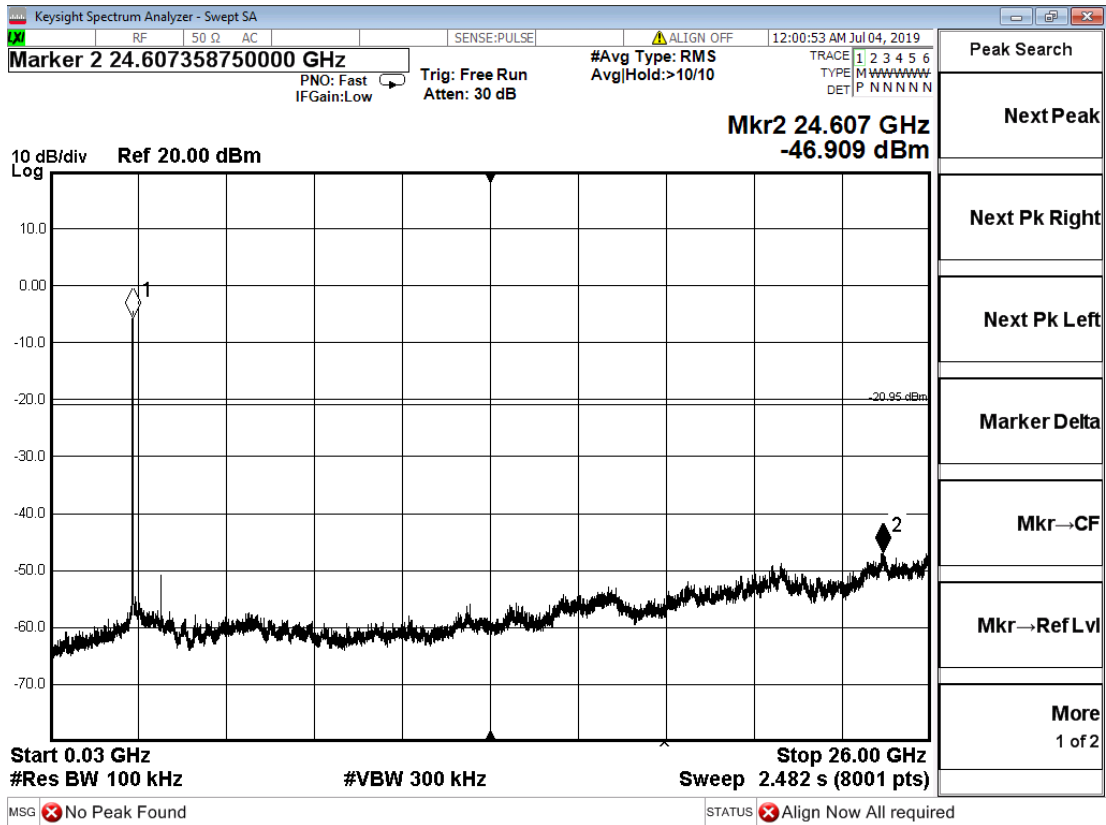


11G\_HCH\_Graphs

Pref/11G/HCH

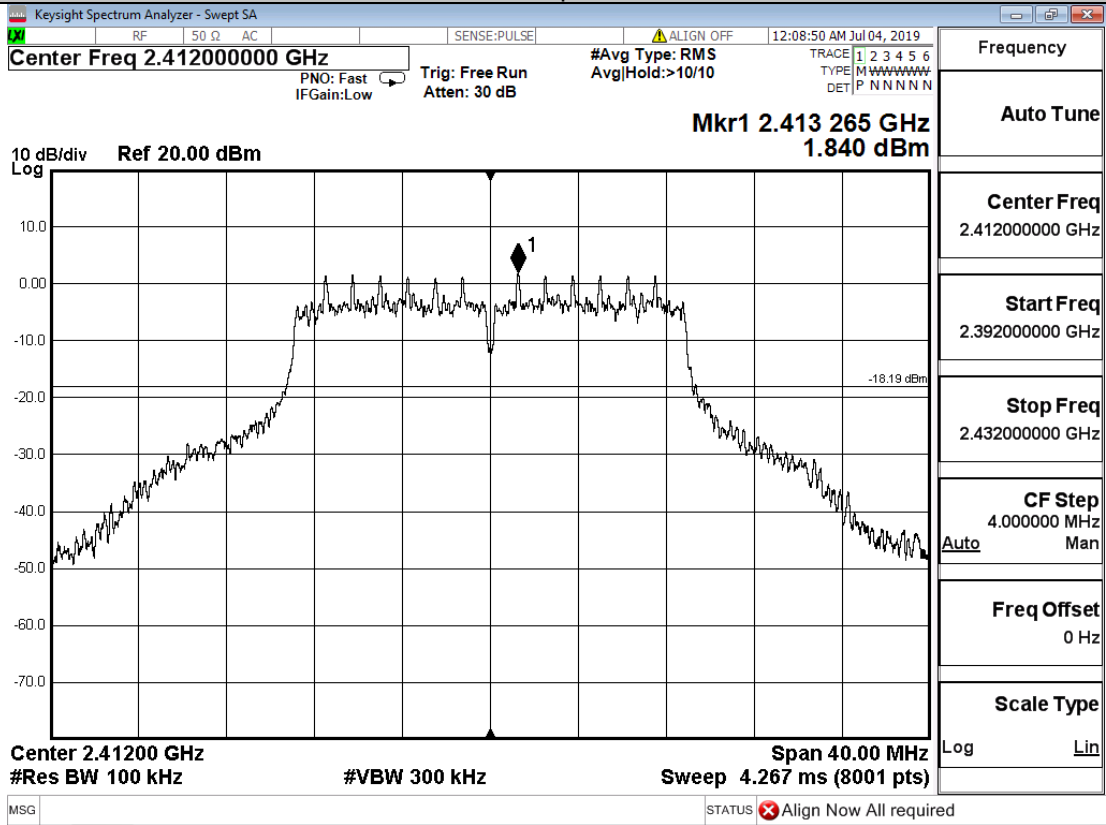


Puw/11G/HCH

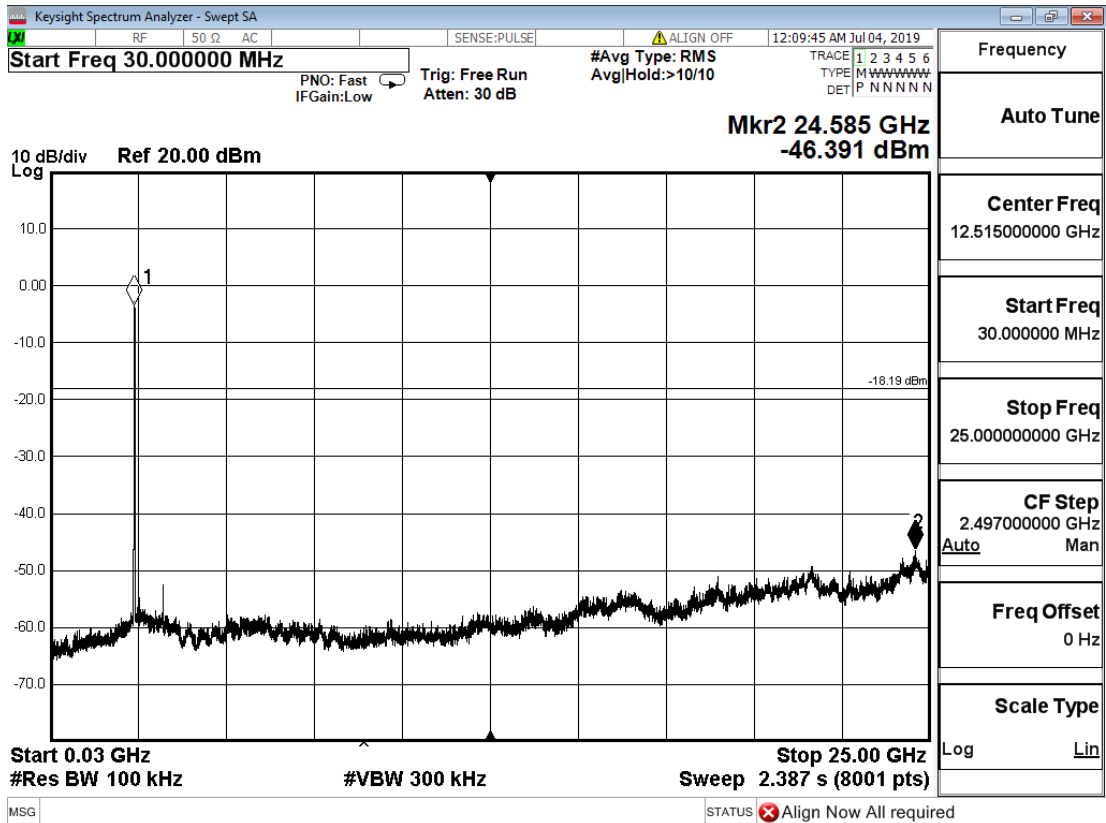


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

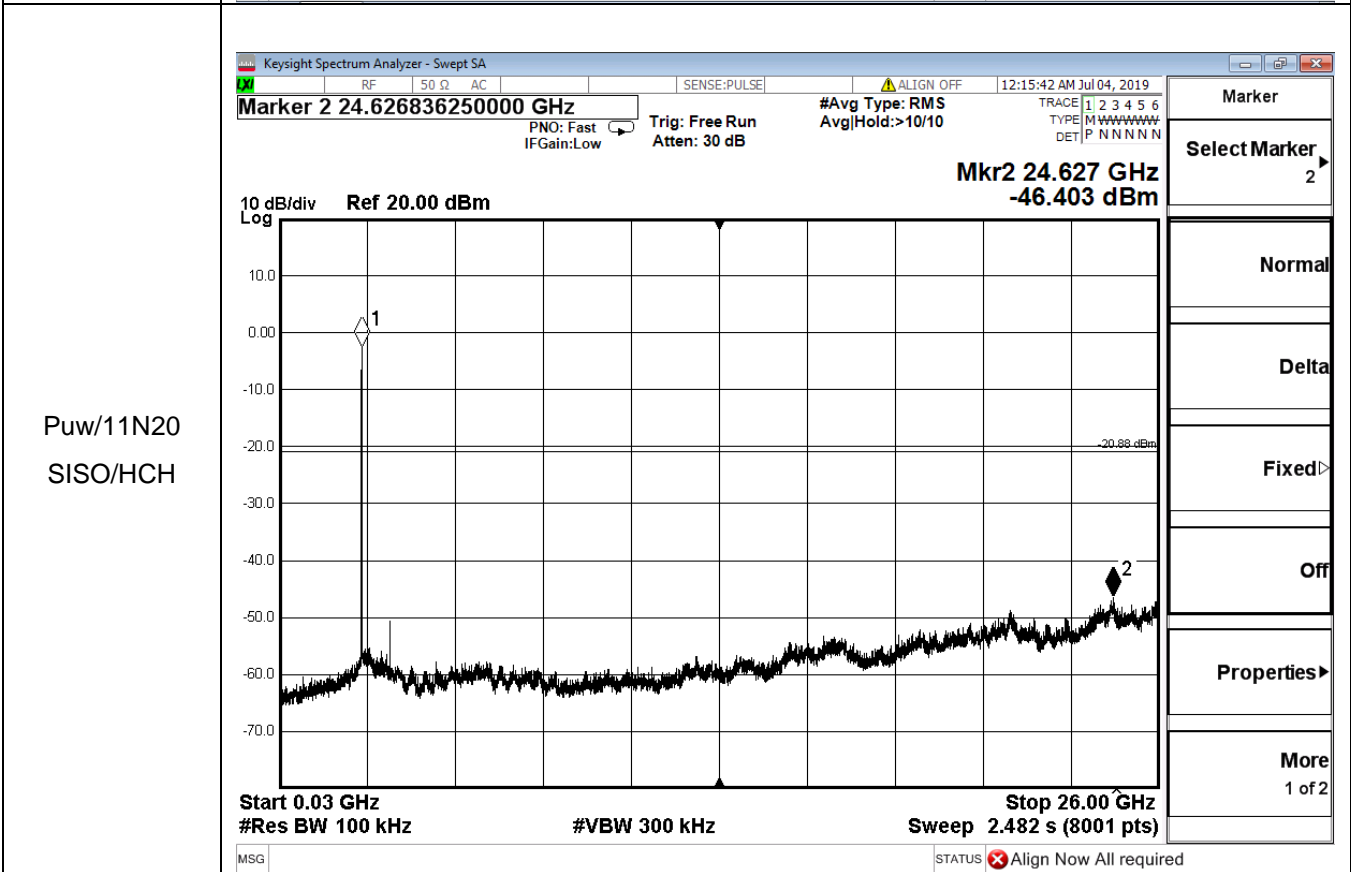
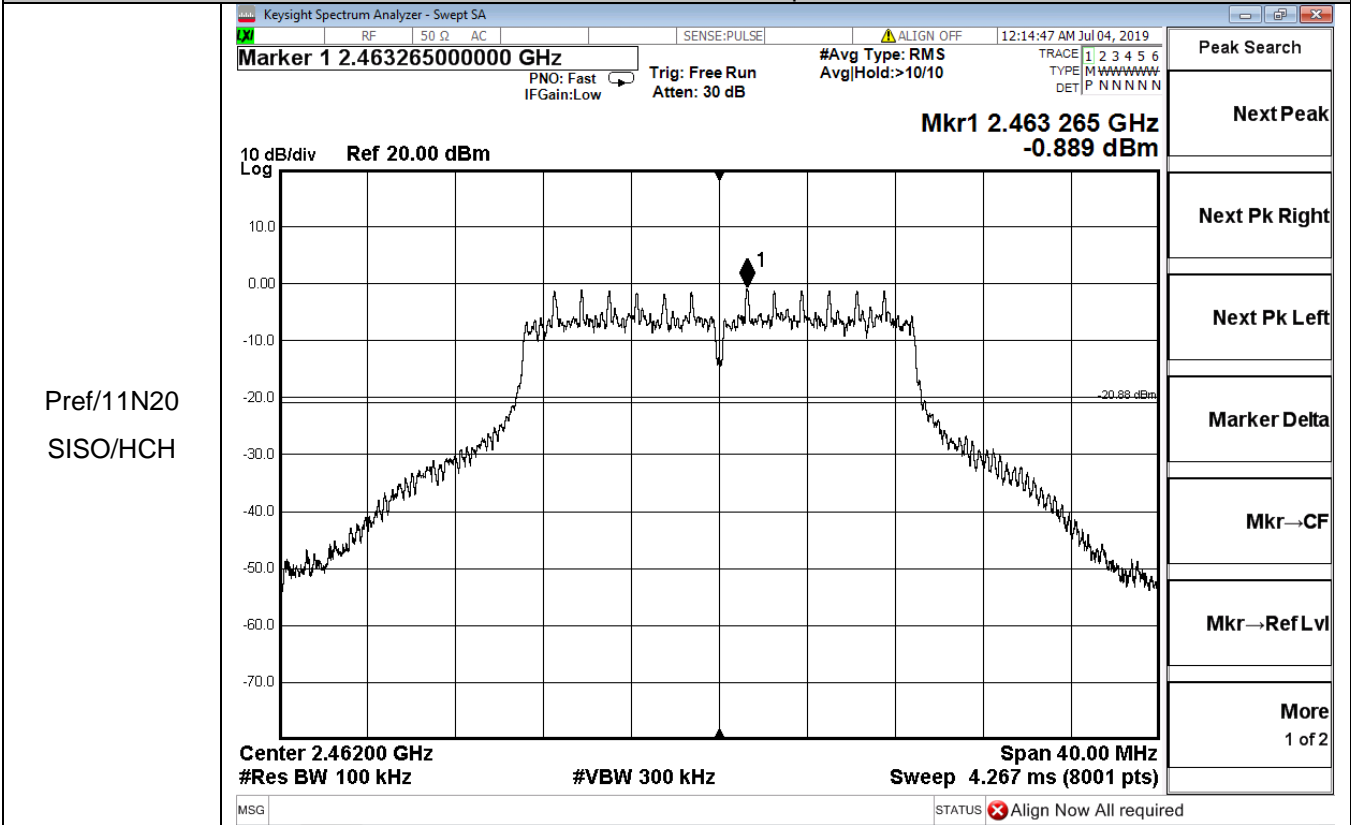


Puw/11N20  
SISO/LCH





11N20SISO\_HCH\_Graphs



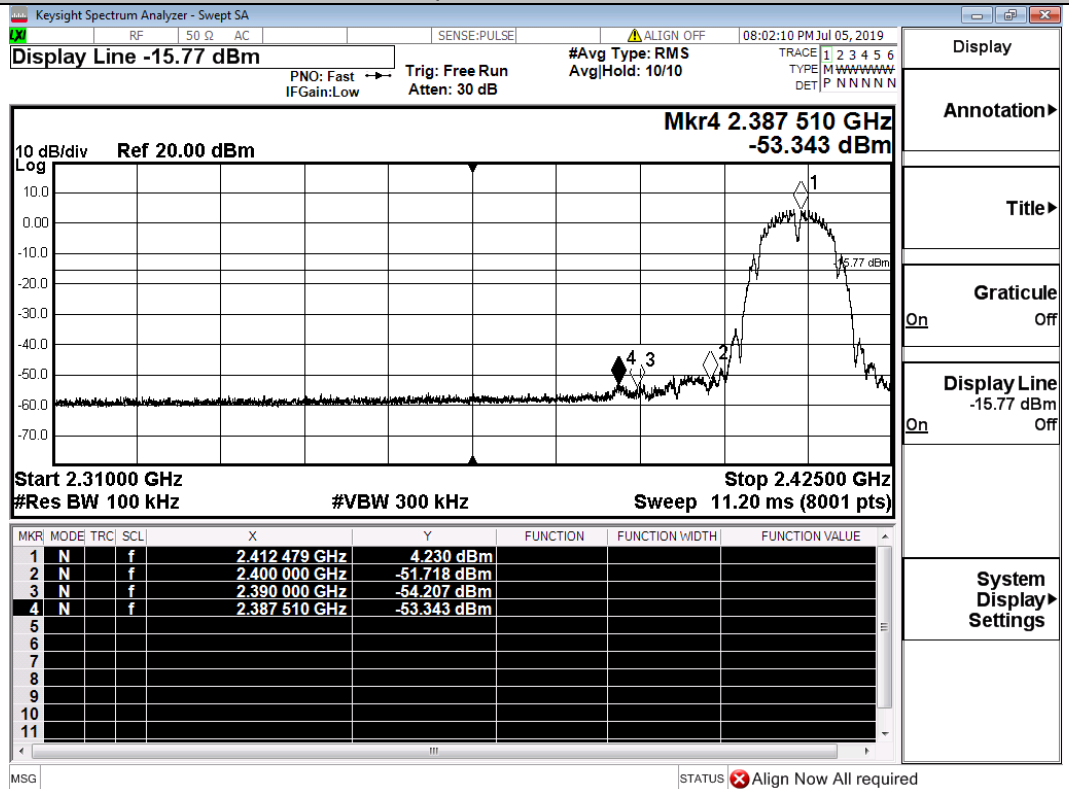


### B.6 Band-edge for RF Conducted Emissions

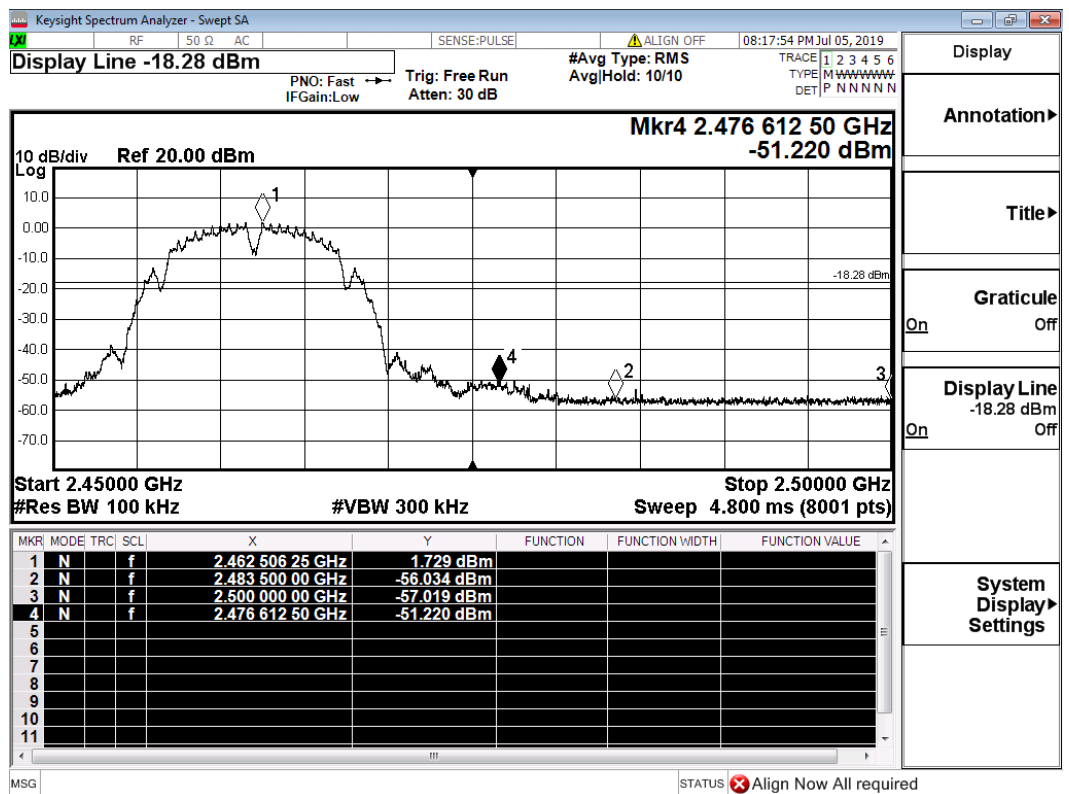
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.230	-51.718	-15.77	PASS
	HCH	1.729	-51.220	-18.27	PASS
11G	LCH	1.884	-26.888	-18.12	PASS
	HCH	-0.515	-52.411	-20.52	PASS
11N20SISO	LCH	2.105	-28.299	-17.90	PASS
	HCH	-0.691	-52.107	-20.69	PASS

Test Graphs

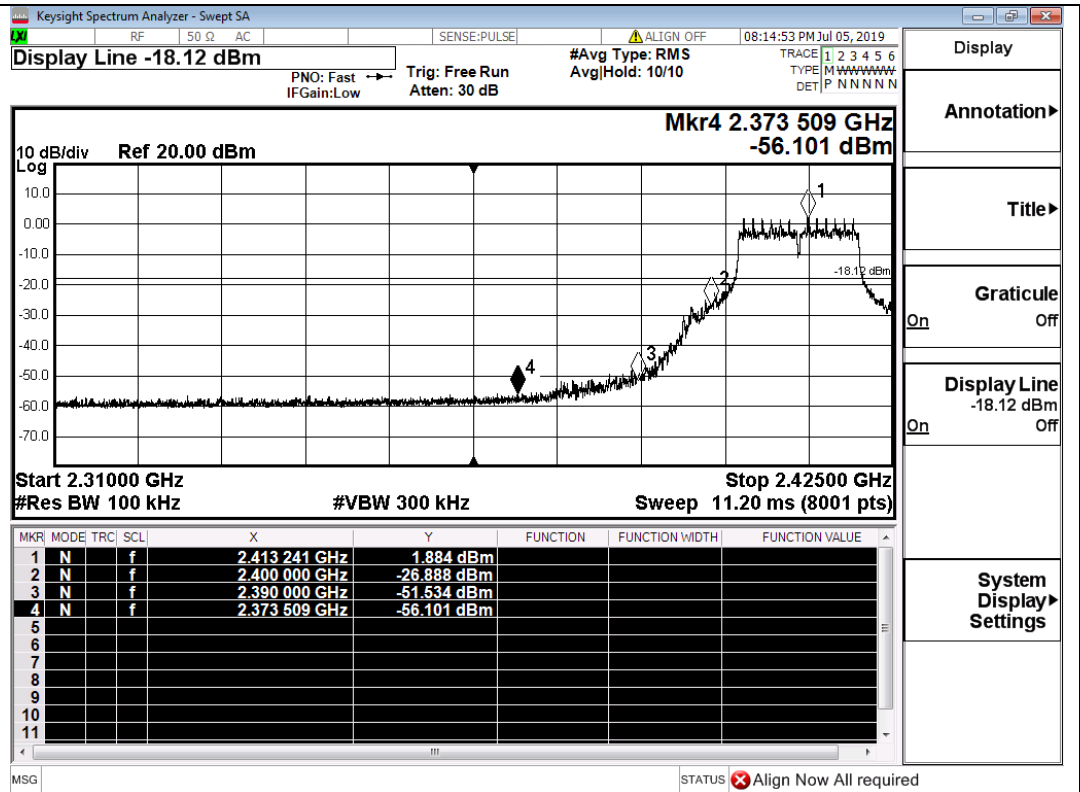
11B/LCH



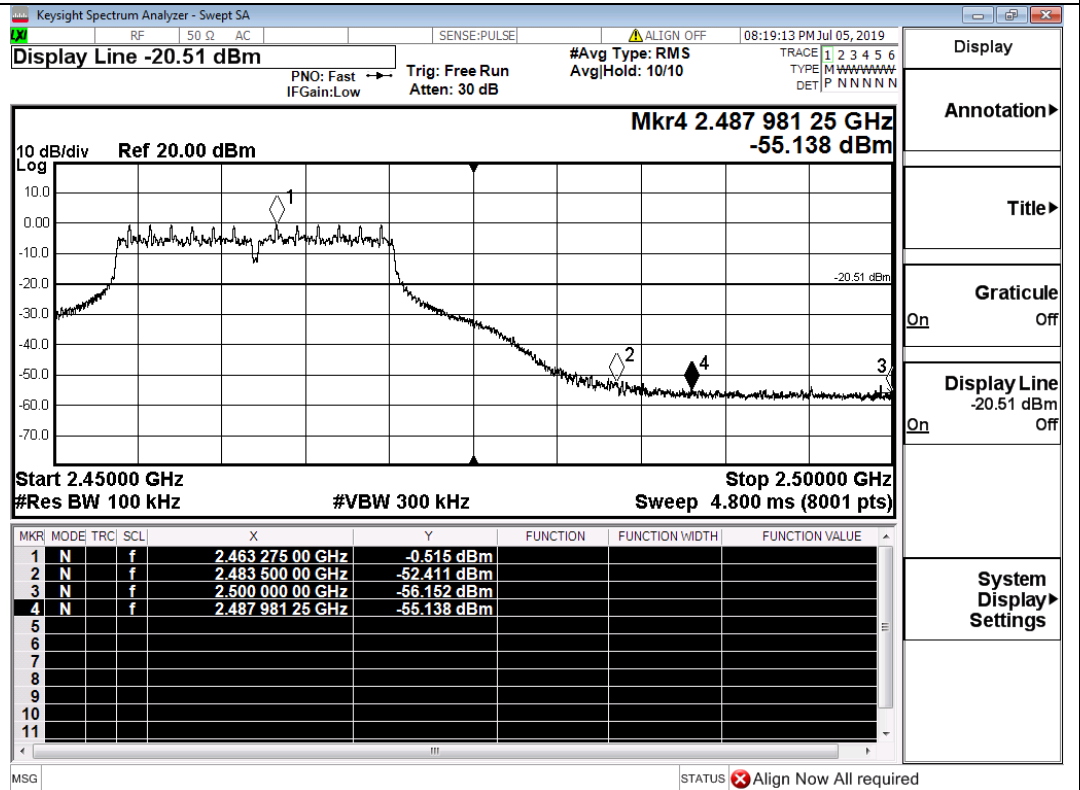
11B/HCH



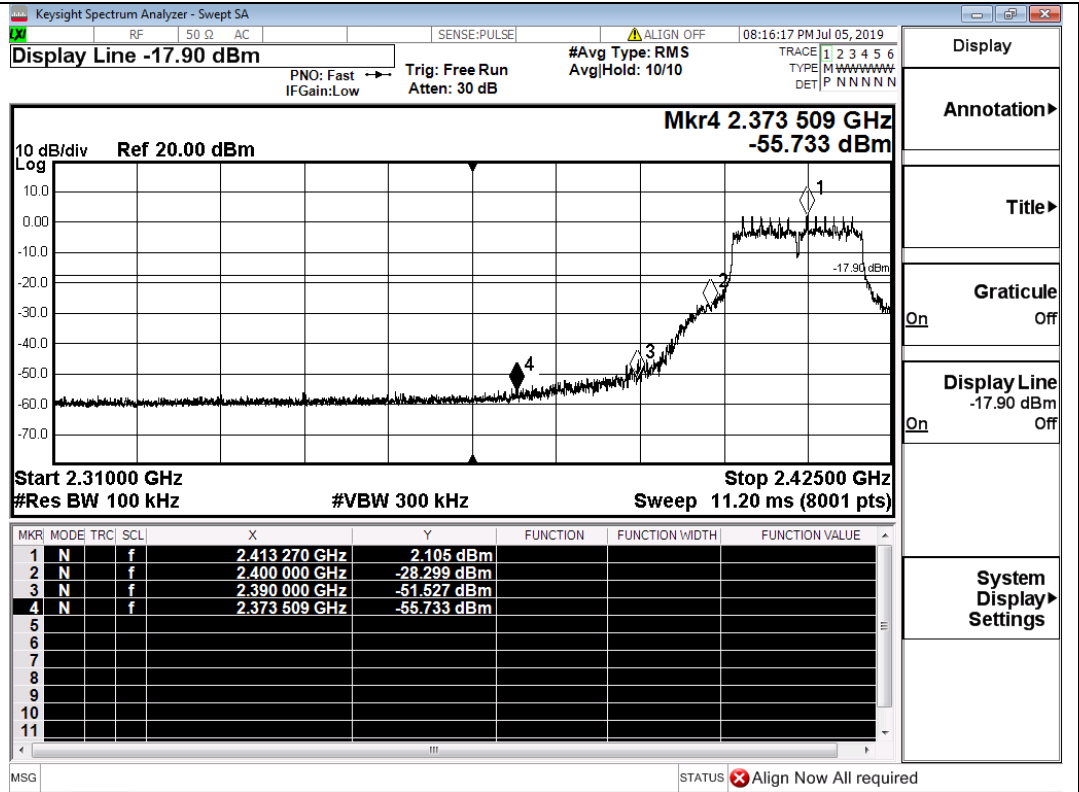
11G/LCH



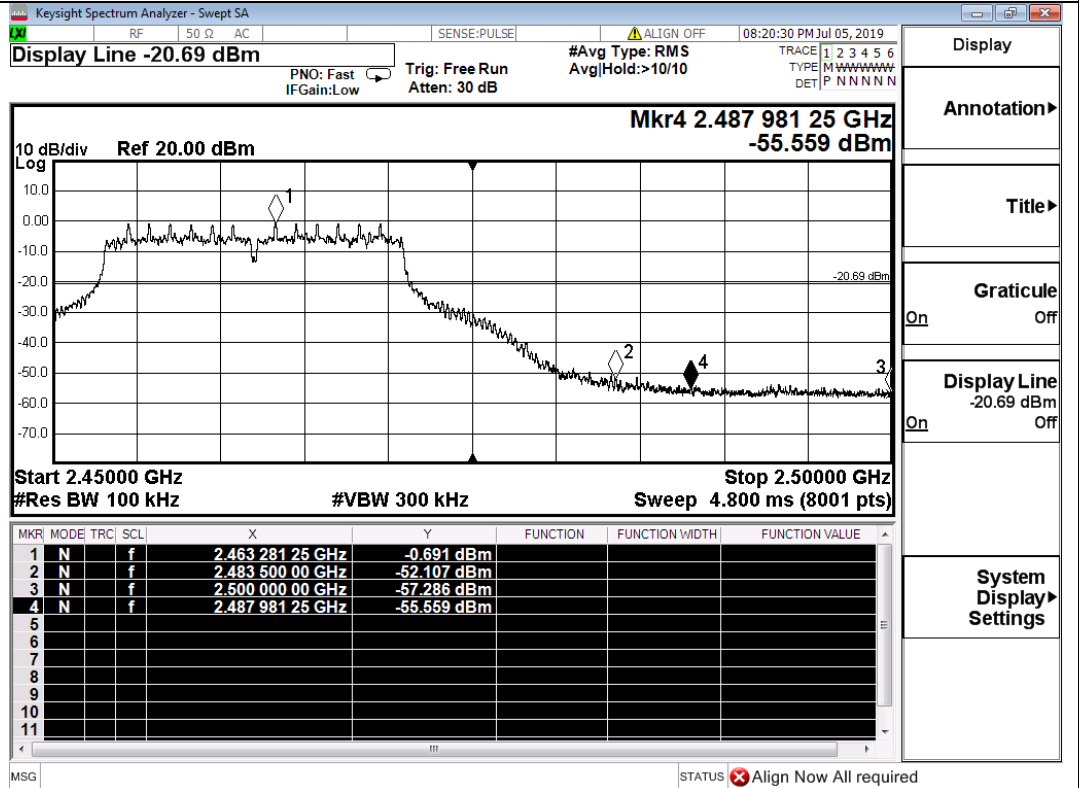
11G/HCH



11N20SISO/LCH



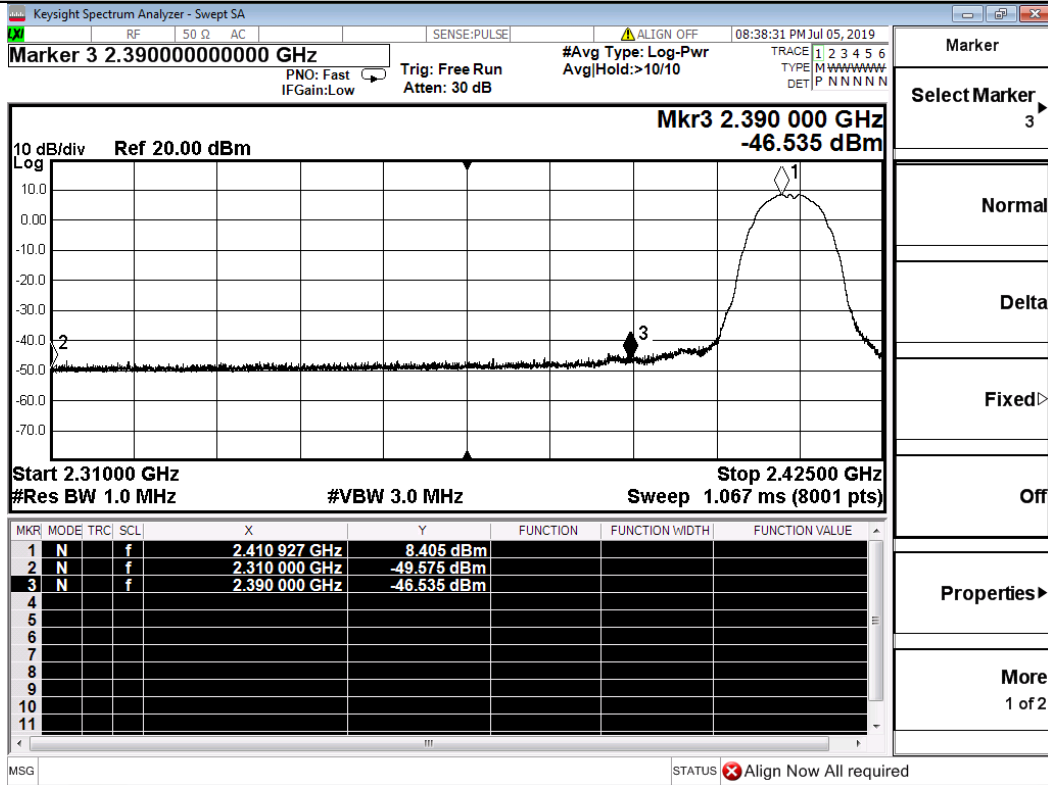
11N20SISO/HCH



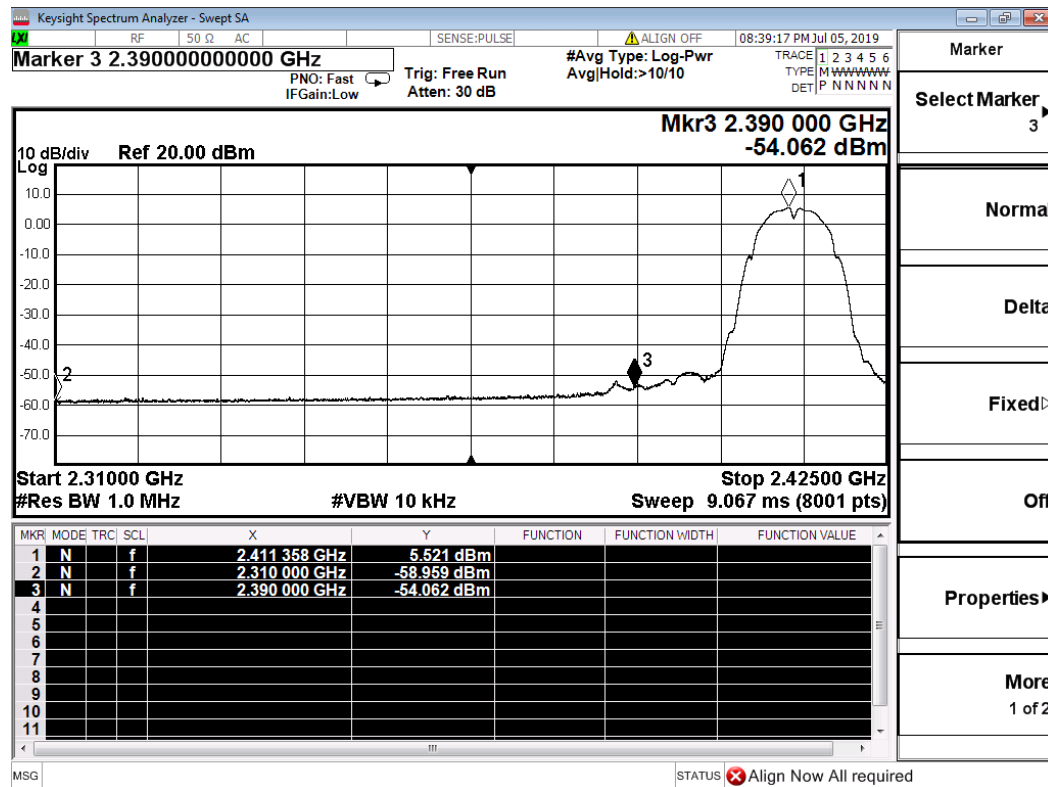
**B.7 Restrict-band band-edge measurements**

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	-49.575	2.0	0	47.66	PEAK	74	PASS
	2412	Ant1	2310.0	-58.959	2.0	0	38.27	AV	54	PASS
	2412	Ant1	2390.0	-46.535	2.0	0	50.70	PEAK	74	PASS
	2412	Ant1	2390.0	-54.062	2.0	0	43.17	AV	54	PASS
	2462	Ant1	2483.5	-48.019	2.0	0	49.21	PEAK	74	PASS
	2462	Ant1	2483.5	-56.241	2.0	0	40.99	AV	54	PASS
	2462	Ant1	2500.0	-47.033	2.0	0	50.20	PEAK	74	PASS
	2462	Ant1	2500.0	-57.095	2.0	0	40.14	AV	54	PASS
11G	2412	Ant1	2310.0	-50.186	2.0	0	47.04	PEAK	74	PASS
	2412	Ant1	2310.0	-59.135	2.0	0	38.10	AV	54	PASS
	2412	Ant1	2390.0	-38.933	2.0	0	58.30	PEAK	74	PASS
	2412	Ant1	2390.0	-49.002	2.0	0	48.23	AV	54	PASS
	2462	Ant1	2483.5	-43.390	2.0	0	53.84	PEAK	74	PASS
	2462	Ant1	2483.5	-52.222	2.0	0	45.01	AV	54	PASS
	2462	Ant1	2500.0	-46.649	2.0	0	50.58	PEAK	74	PASS
	2462	Ant1	2500.0	-56.532	2.0	0	40.70	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-48.767	2.0	0	48.46	PEAK	74	PASS
	2412	Ant1	2310.0	-59.109	2.0	0	38.12	AV	54	PASS
	2412	Ant1	2390.0	-33.968	2.0	0	63.26	PEAK	74	PASS
	2412	Ant1	2390.0	-47.995	2.0	0	49.24	AV	54	PASS
	2462	Ant1	2483.5	-40.521	2.0	0	56.71	PEAK	74	PASS
	2462	Ant1	2483.5	-52.397	2.0	0	44.83	AV	54	PASS
	2462	Ant1	2500.0	-46.364	2.0	0	50.87	PEAK	74	PASS
	2462	Ant1	2500.0	-56.607	2.0	0	40.62	AV	54	PASS

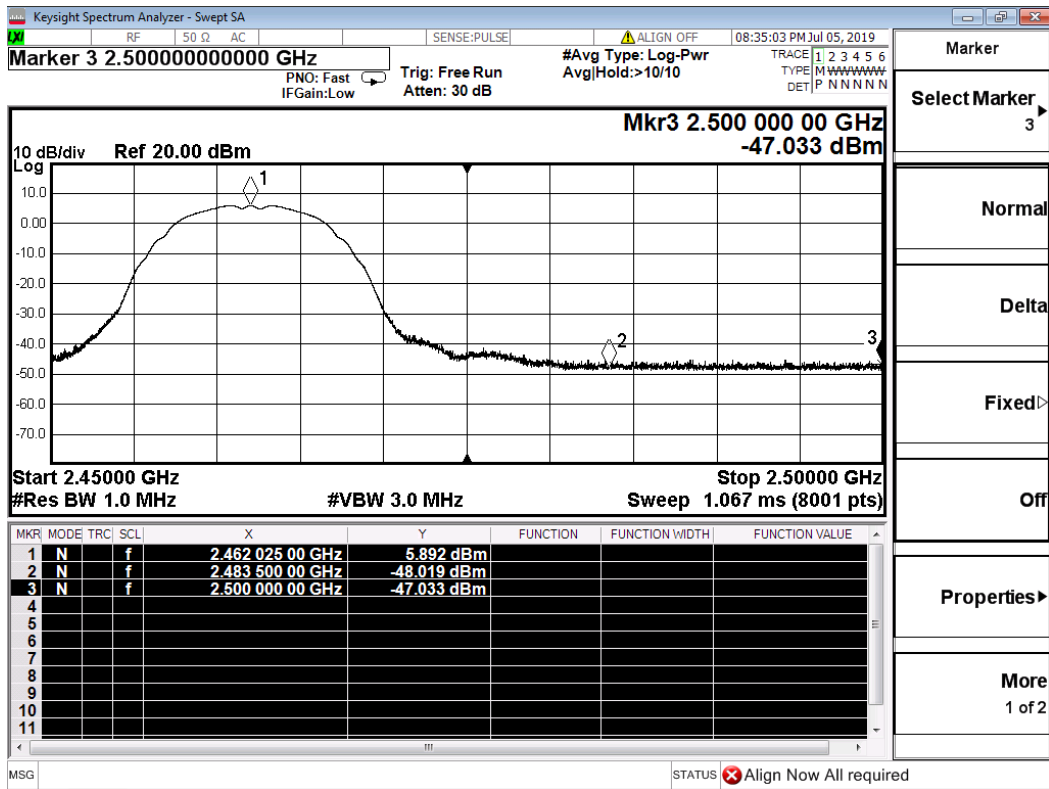
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



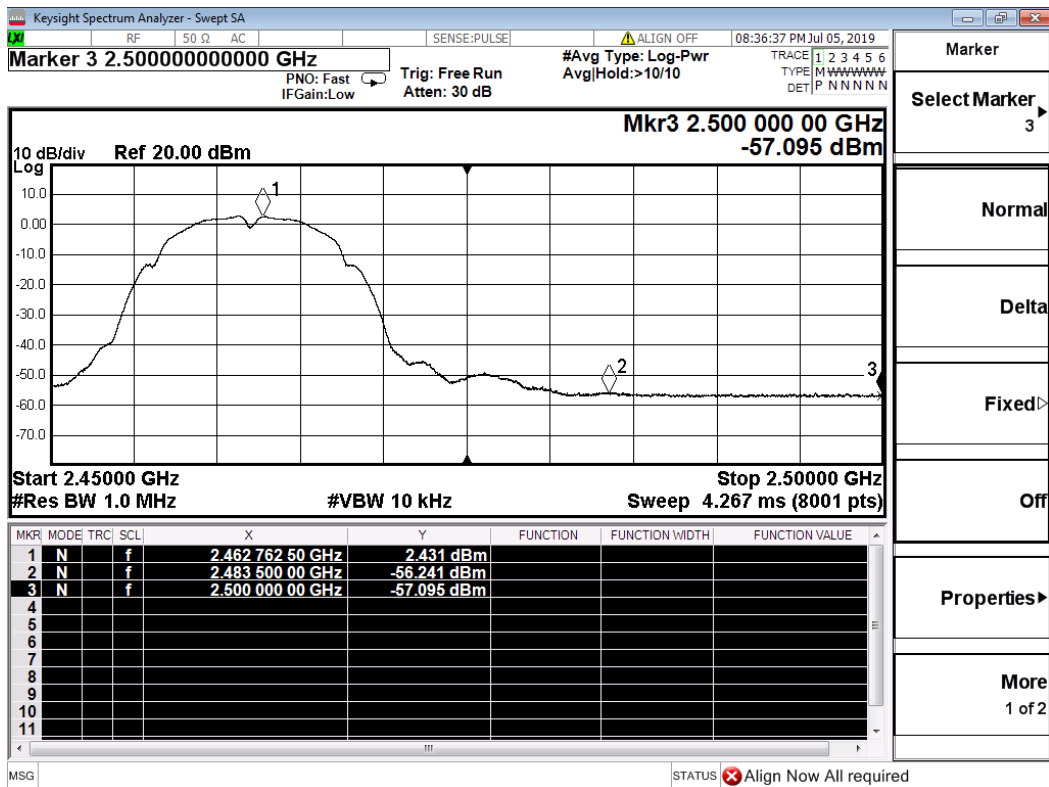
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



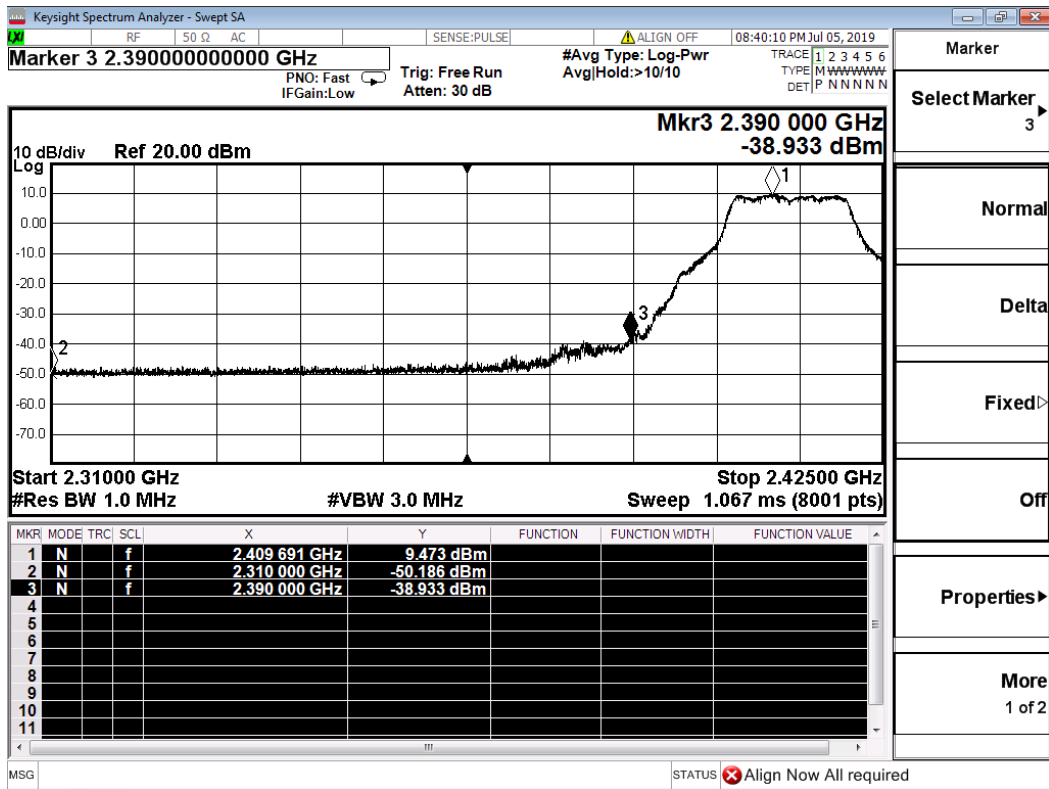
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



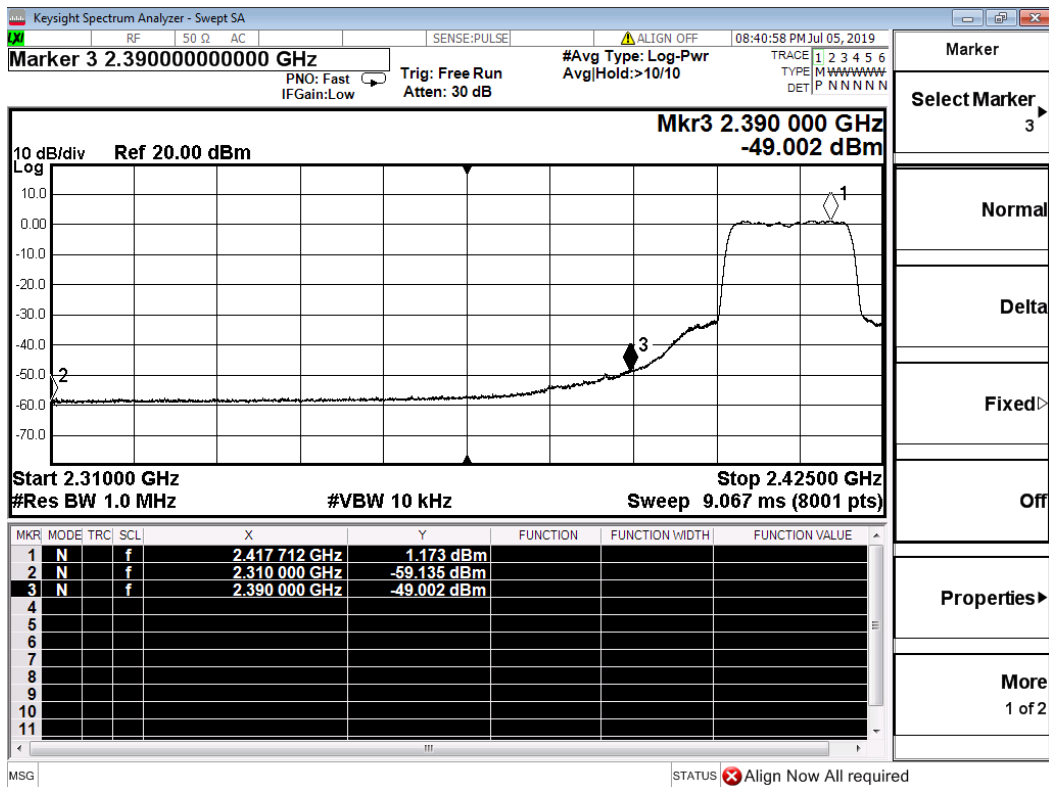
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



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

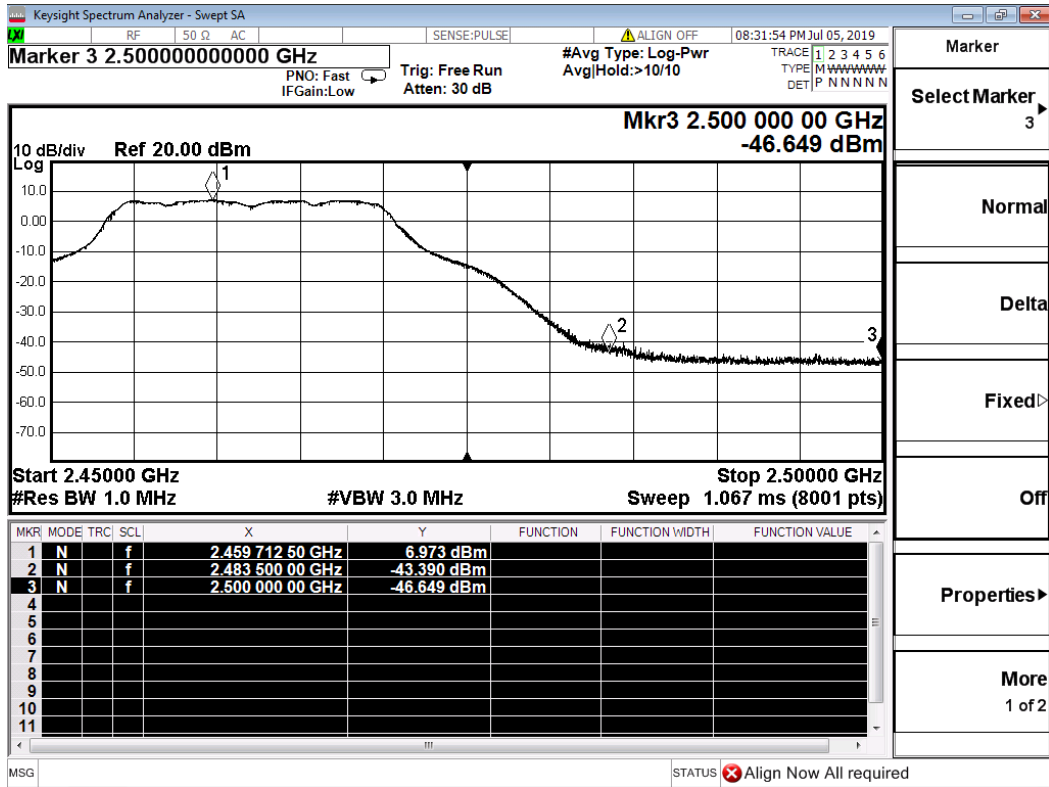


Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV

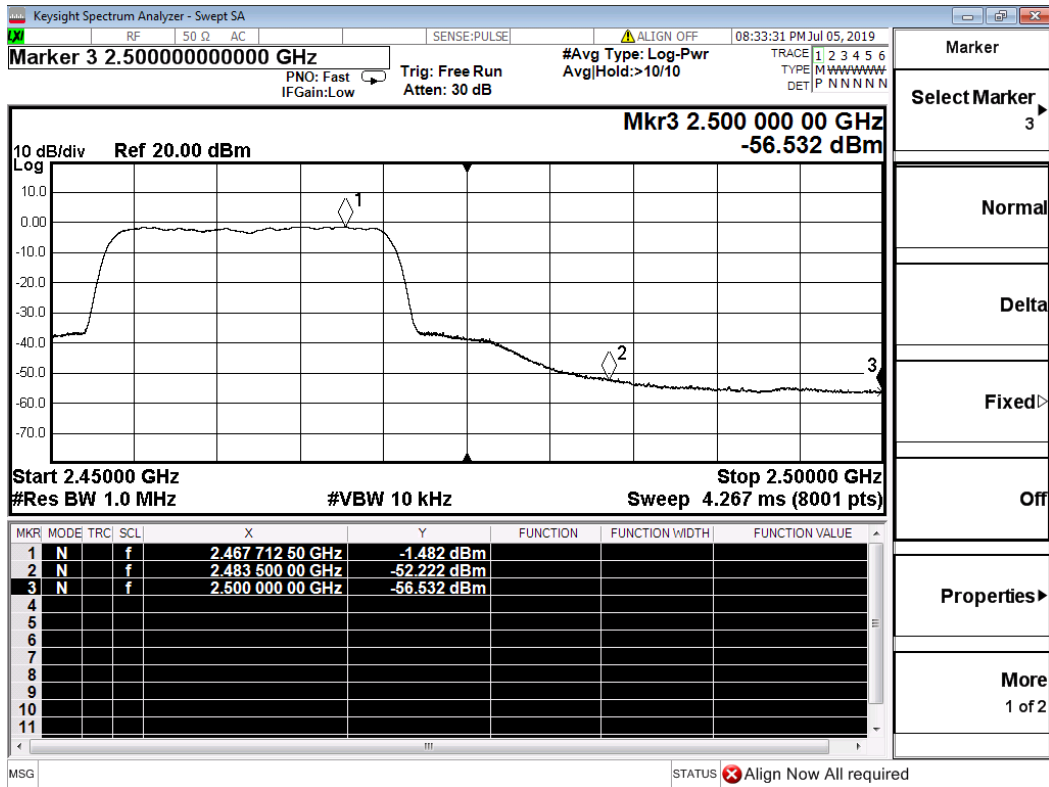




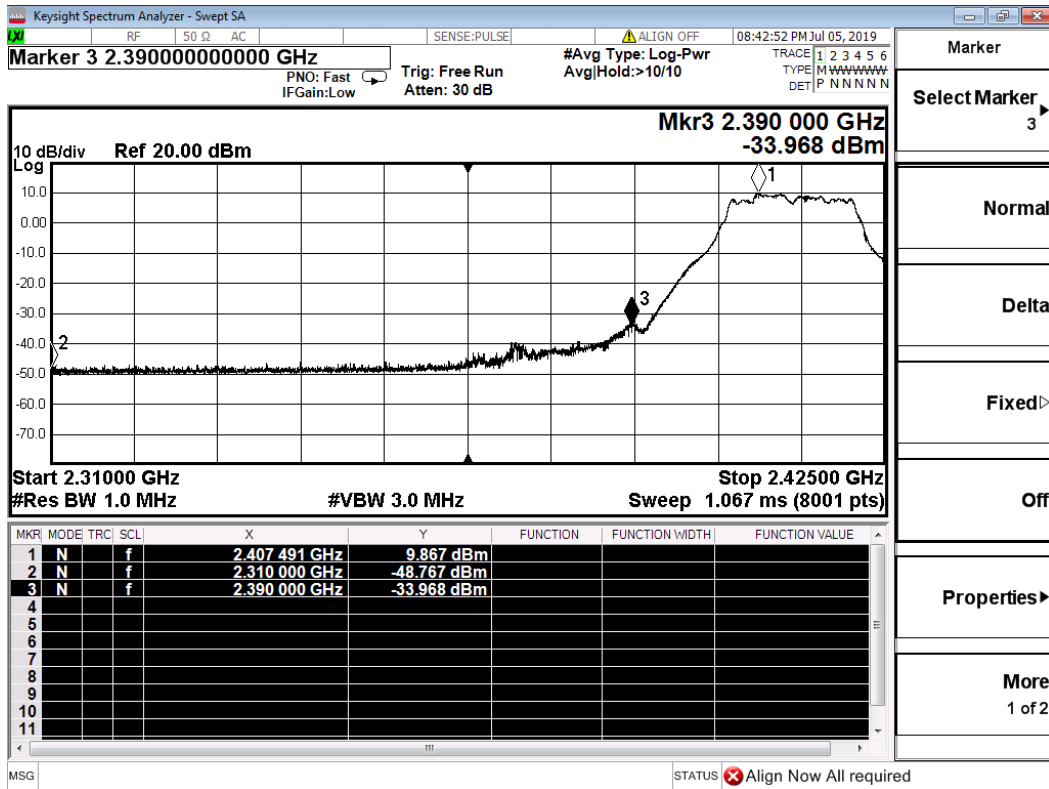
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



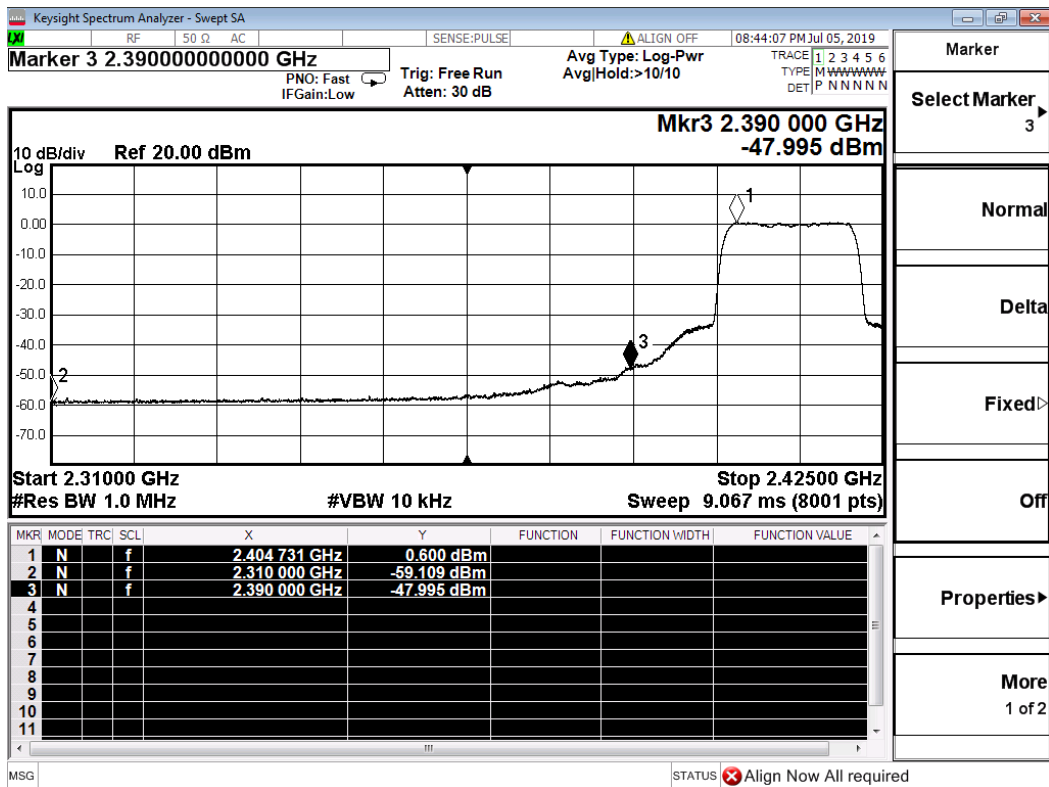
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



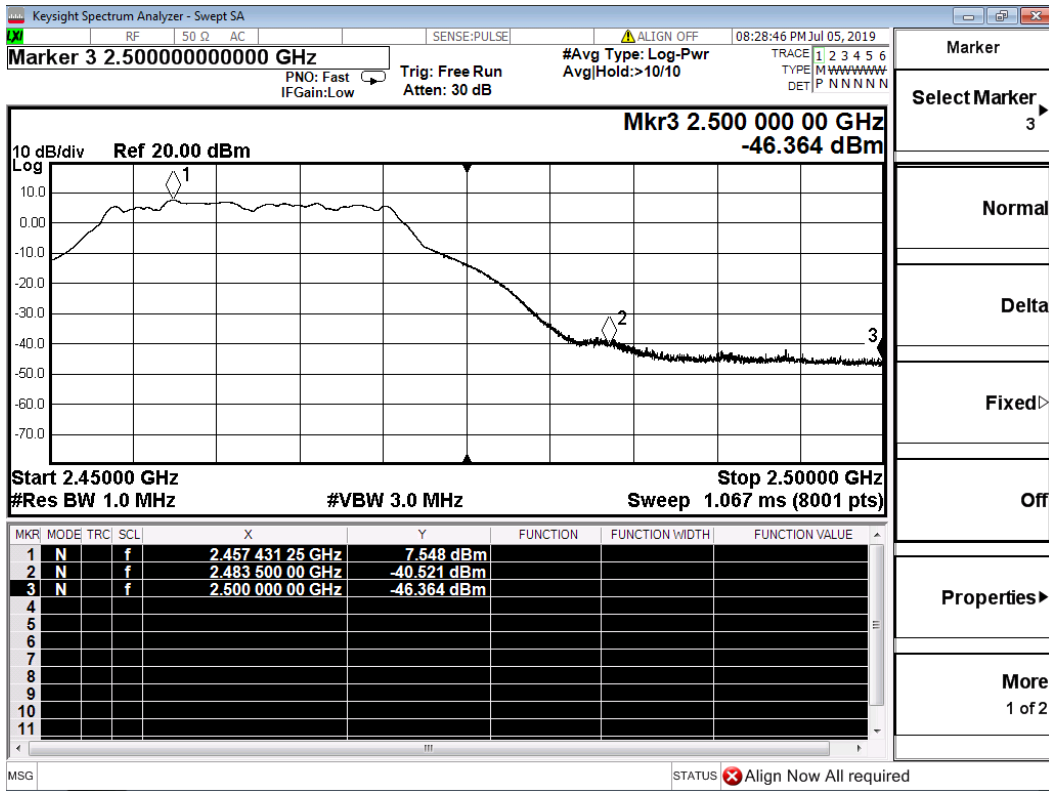
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



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

