



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart visual ear-clean Rod

Trade Mark: BEBIRD

Test Model: T15

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100.00	PASS
11G	2437	Ant1	100.00	PASS
11N20SISO	2437	Ant1	100.00	PASS
11N40SISO	2437	Ant1	100.00	PASS

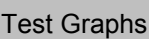


A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	8.25	30	PASS
	MCH	8.23	30	PASS
	HCH	8.77	30	PASS
11G	LCH	8.42	30	PASS
	MCH	8.41	30	PASS
	HCH	8.69	30	PASS
11N20SISO	LCH	8.82	30	PASS
	MCH	8.92	30	PASS
	HCH	8.82	30	PASS
11N40SISO	LCH	8.75	30	PASS
	MCH	8.48	30	PASS
	HCH	8.11	30	PASS

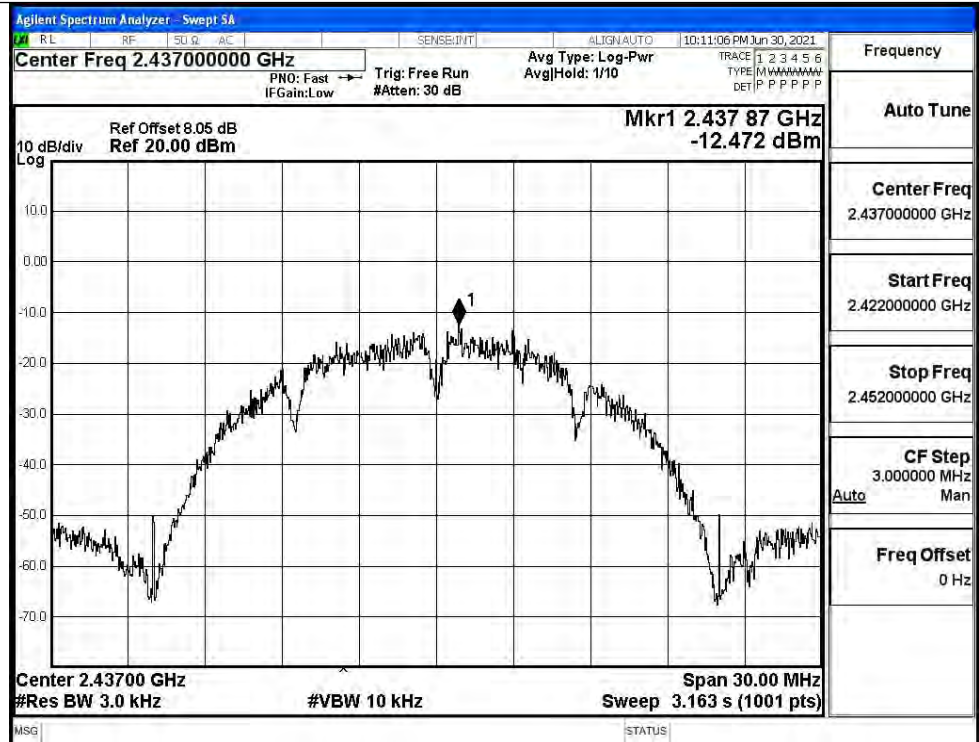


Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-14.357	8	PASS
	MCH	-12.472	8	PASS
	HCH	-12.655	8	PASS
11G	LCH	-19.210	8	PASS
	MCH	-18.316	8	PASS
	HCH	-17.155	8	PASS
11N20SISO	LCH	-18.434	8	PASS
	MCH	-17.595	8	PASS
	HCH	-16.675	8	PASS
11N40SISO	LCH	-19.880	8	PASS
	MCH	-19.668	8	PASS
	HCH	-18.503	8	PASS

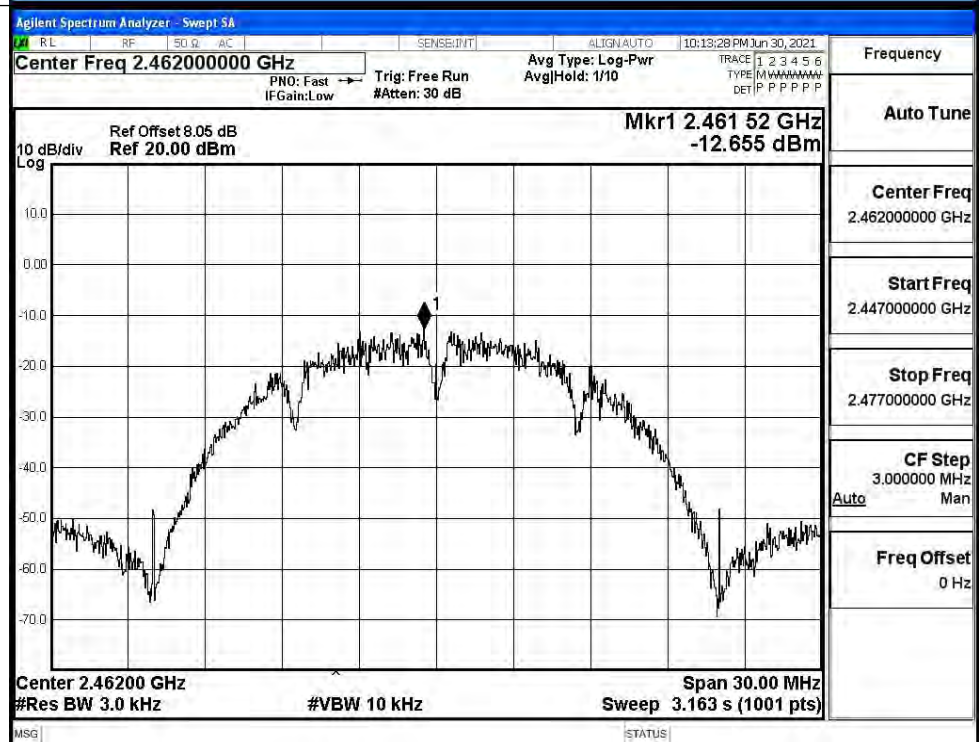




11B/MCH

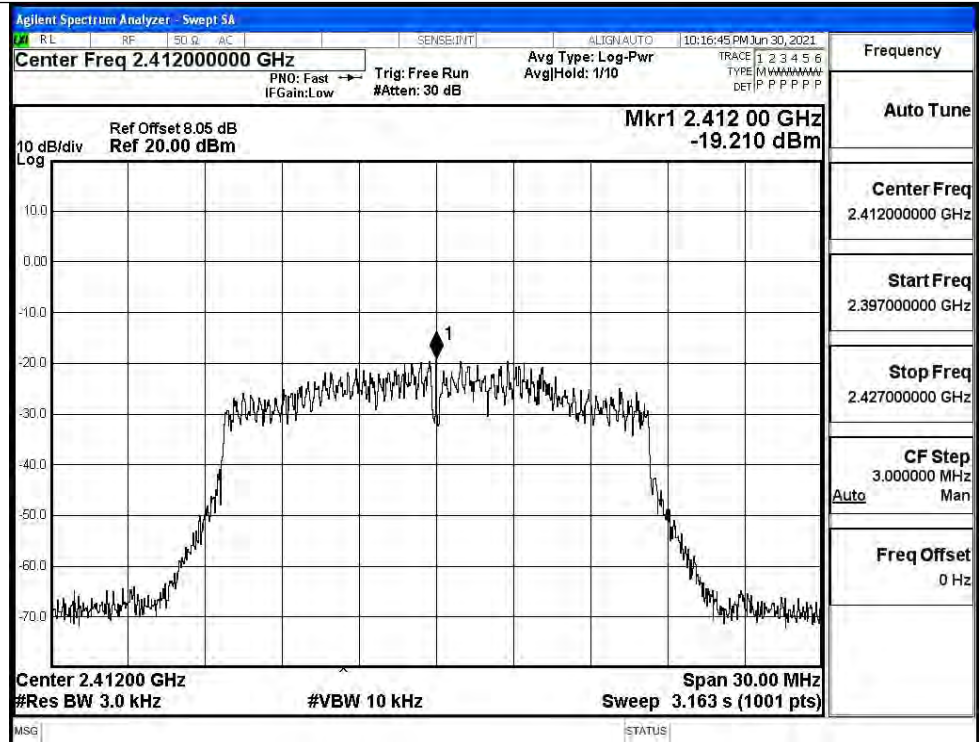


11B/HCH

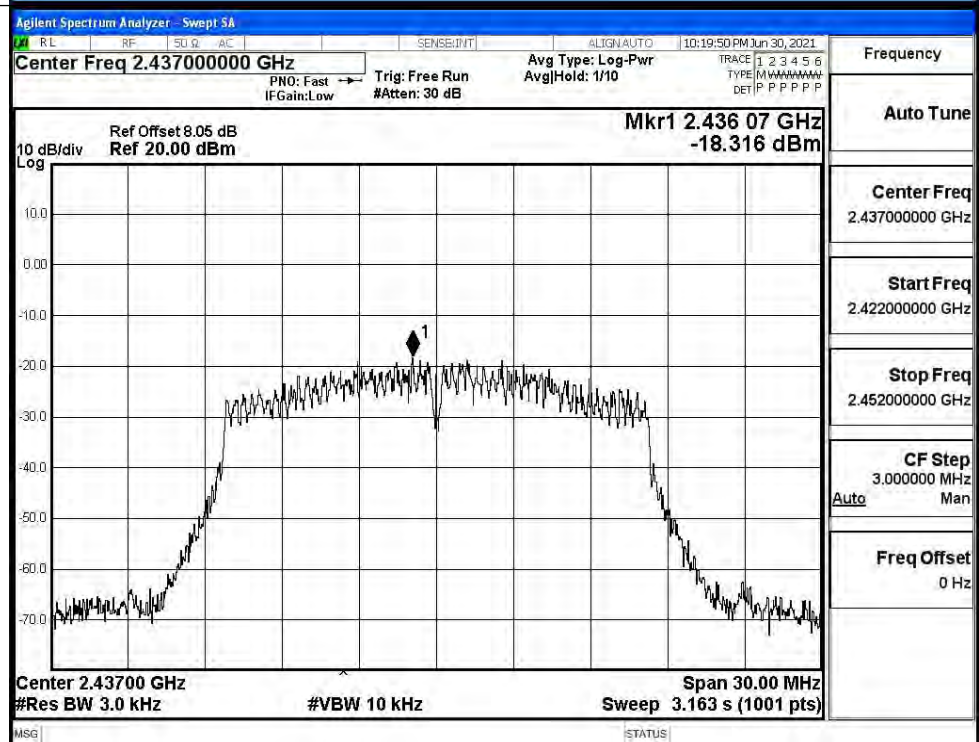




11G/LCH

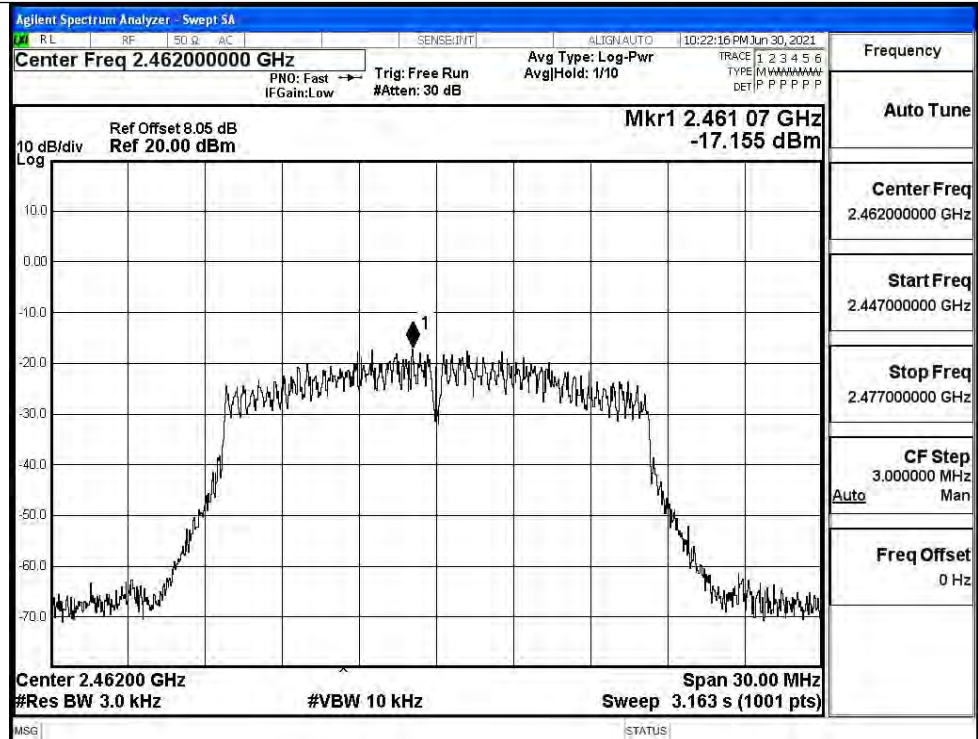


11G/MCH

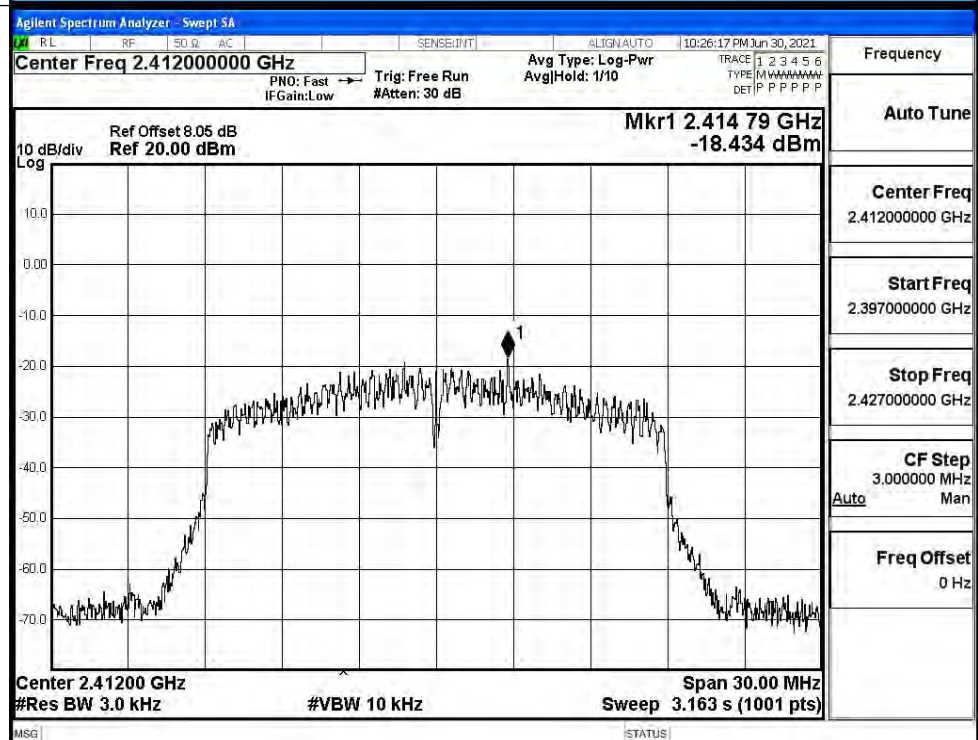




11G/HCH

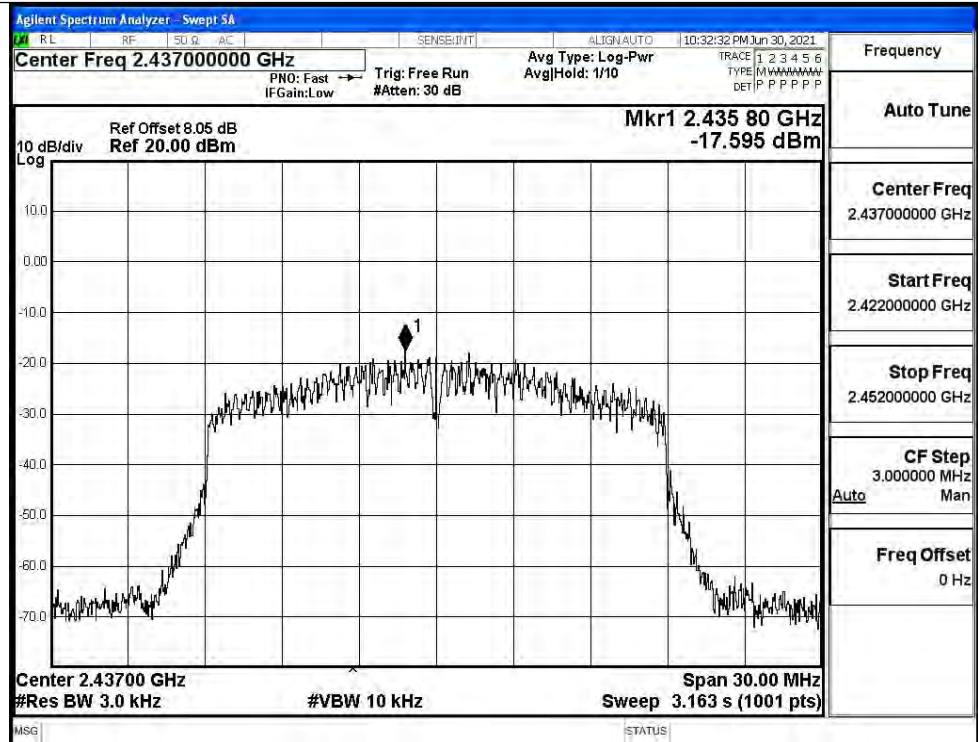


11N20SISO/LCH

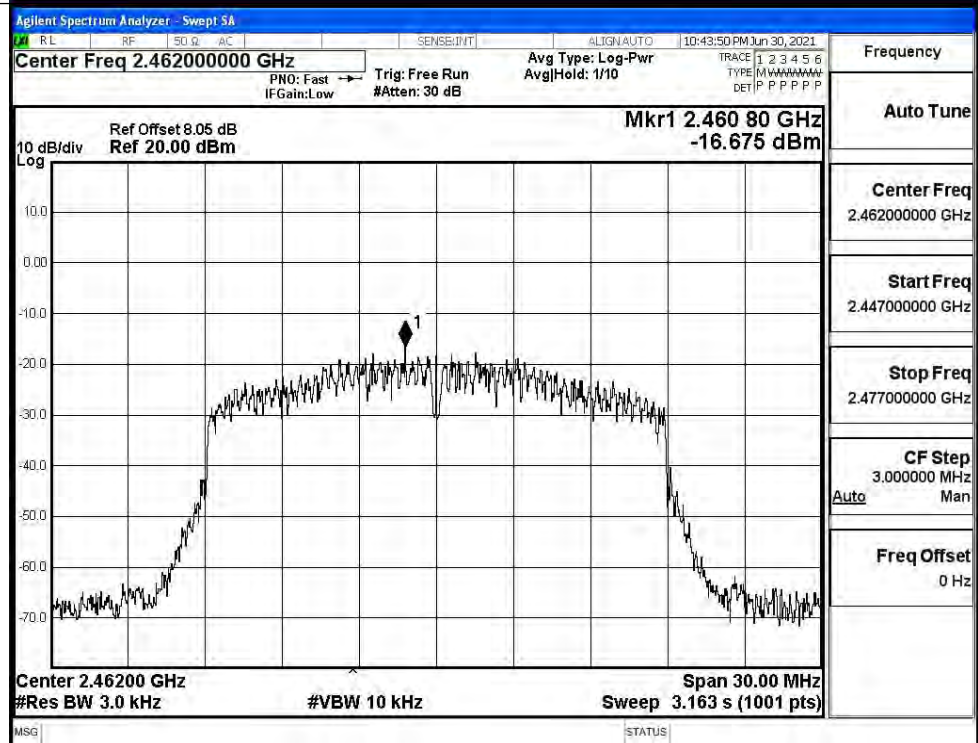




11N20SISO/MCH

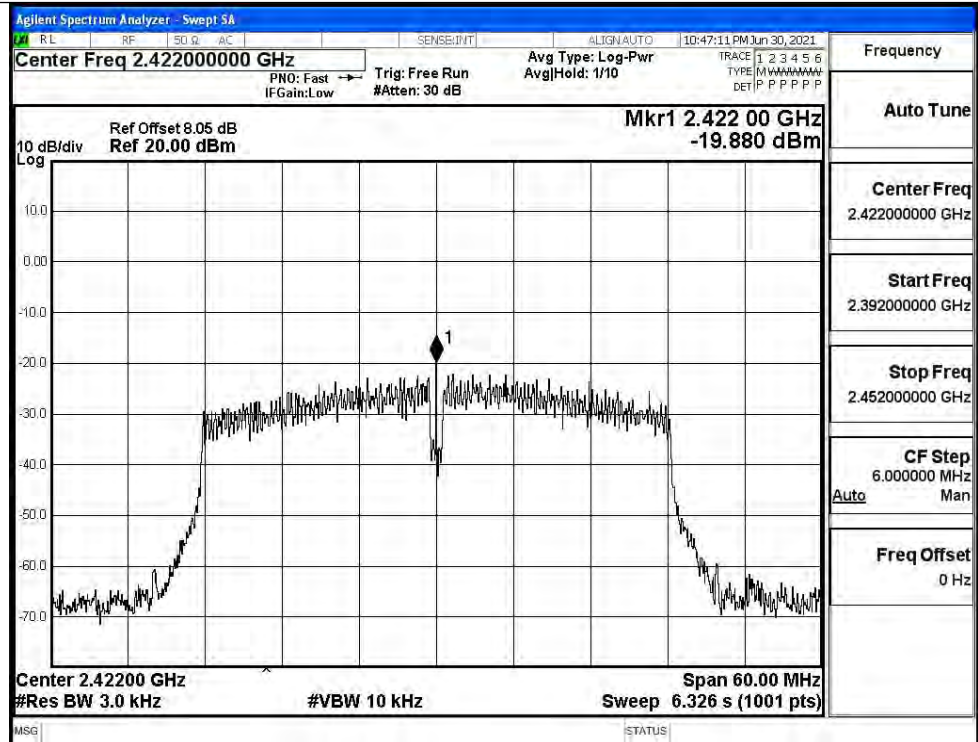


11N20SISO/HCH

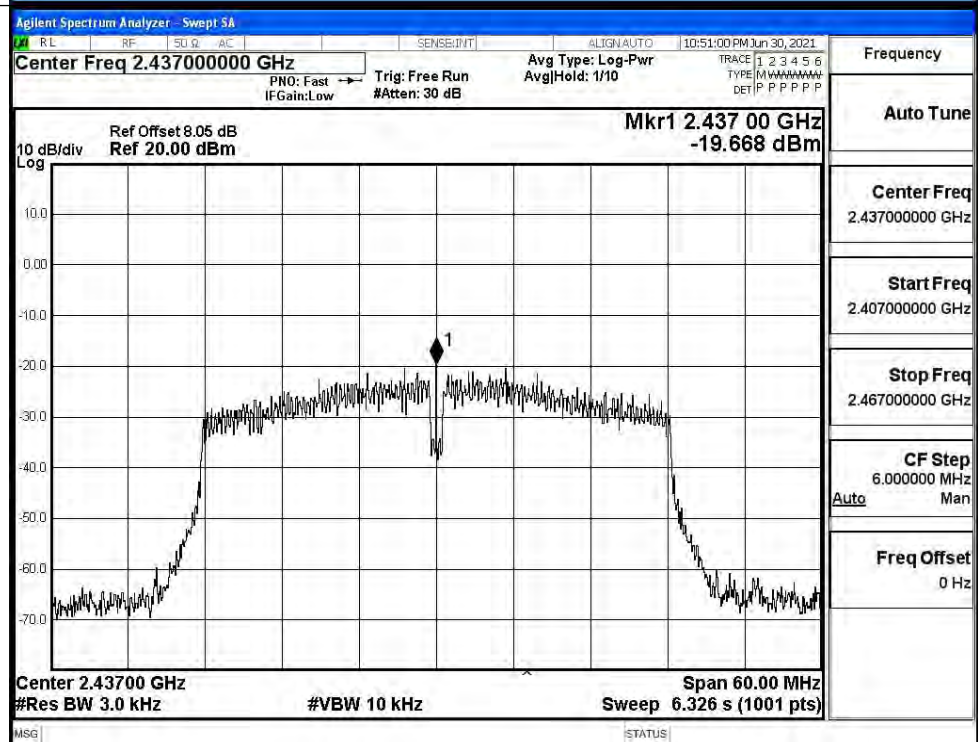




11N40SISO/LCH

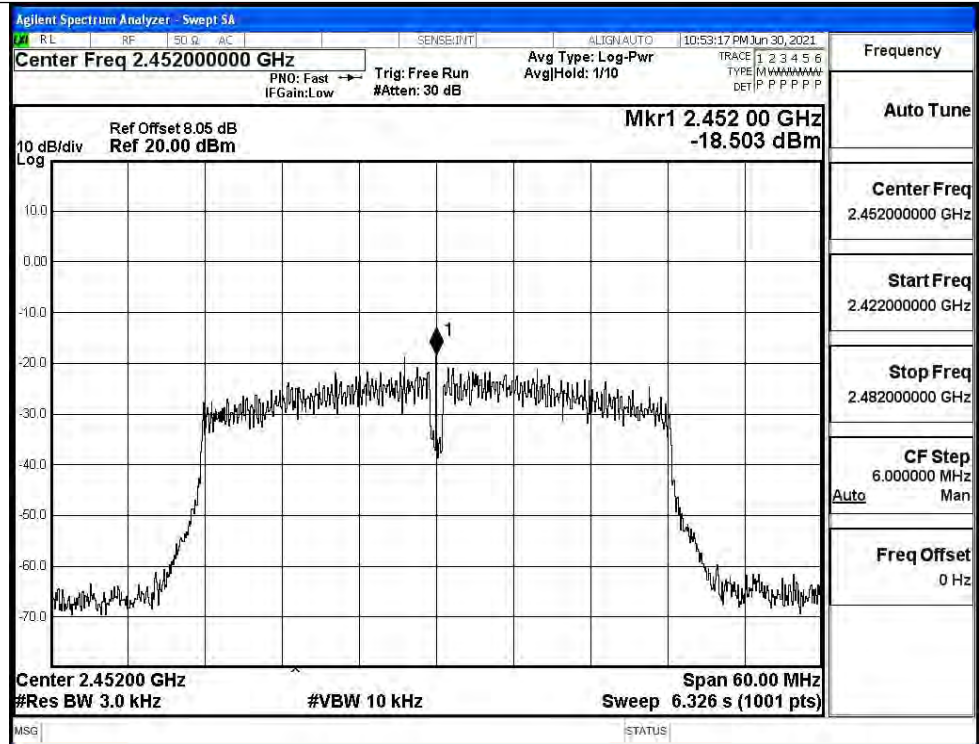


11N40SISO/MCH





11N40SISO/HCH



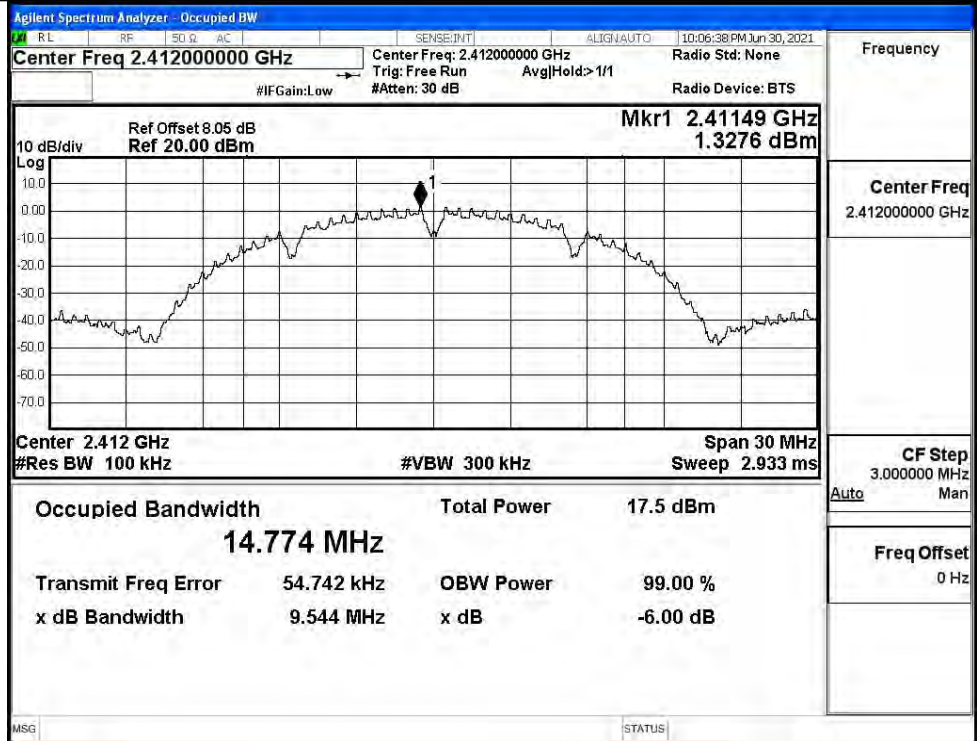


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.544	≥ 0.5	PASS
	MCH	9.995	≥ 0.5	PASS
	HCH	9.112	≥ 0.5	PASS
11G	LCH	14.99	≥ 0.5	PASS
	MCH	12.58	≥ 0.5	PASS
	HCH	15.04	≥ 0.5	PASS
11N20SISO	LCH	13.86	≥ 0.5	PASS
	MCH	12.58	≥ 0.5	PASS
	HCH	12.55	≥ 0.5	PASS
11N40SISO	LCH	33.86	≥ 0.5	PASS
	MCH	33.82	≥ 0.5	PASS
	HCH	33.86	≥ 0.5	PASS

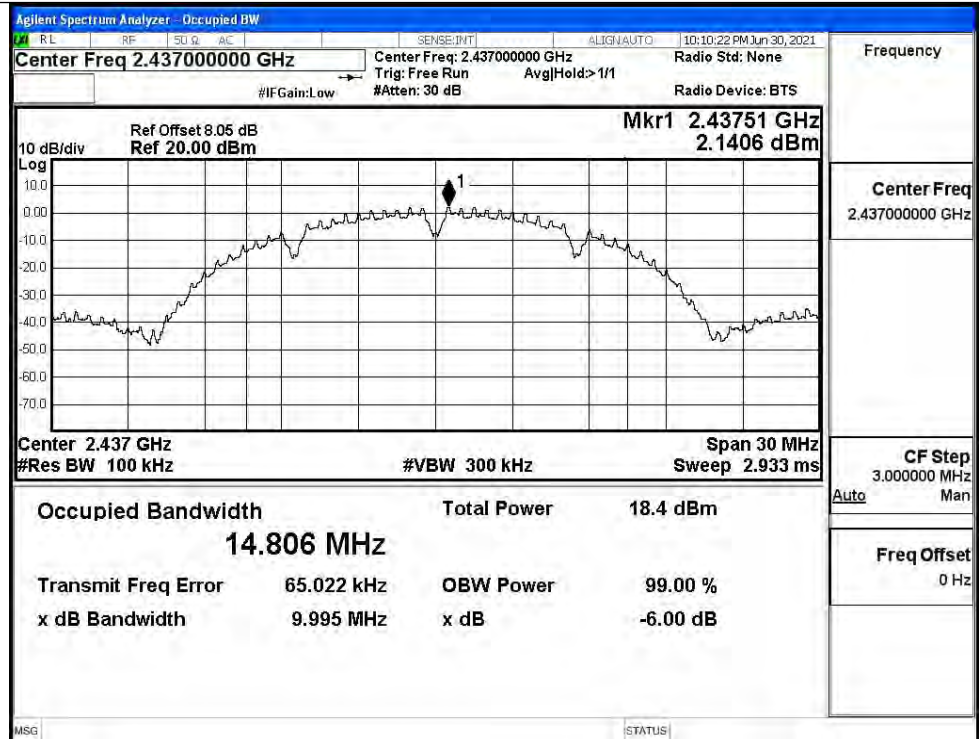
Test Graphs

11B/LCH

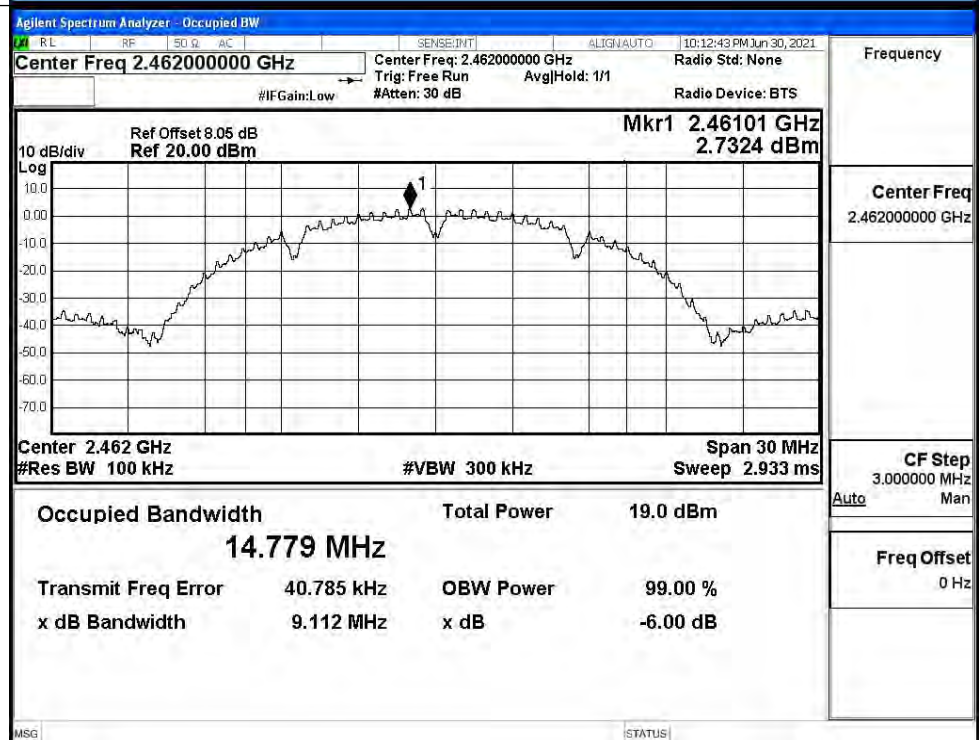




11B/MCH

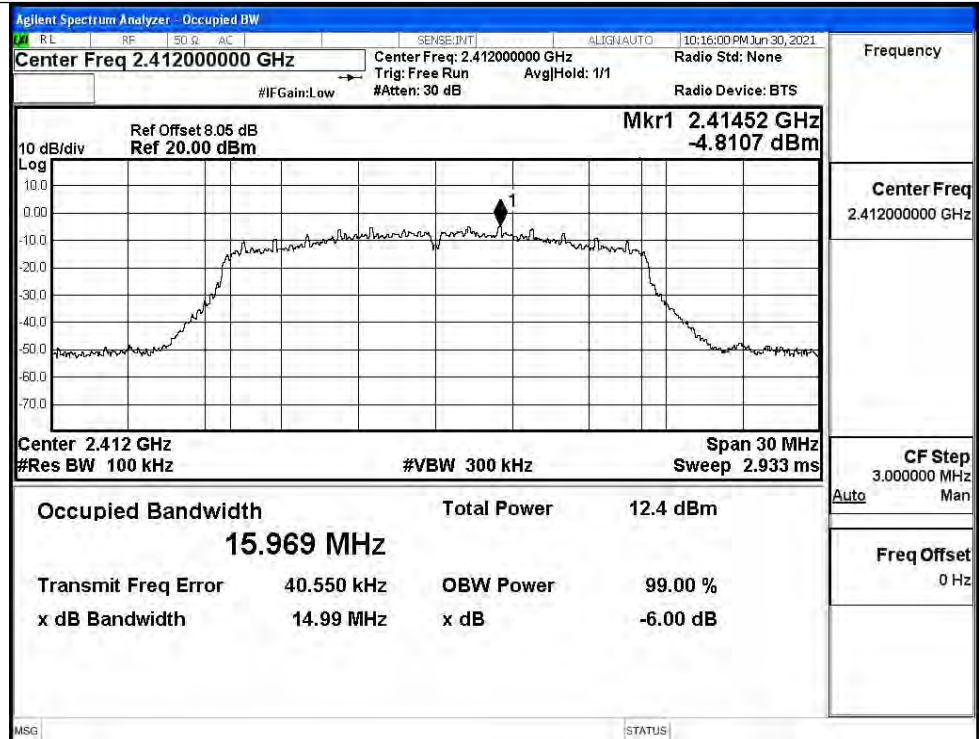


11B/HCH

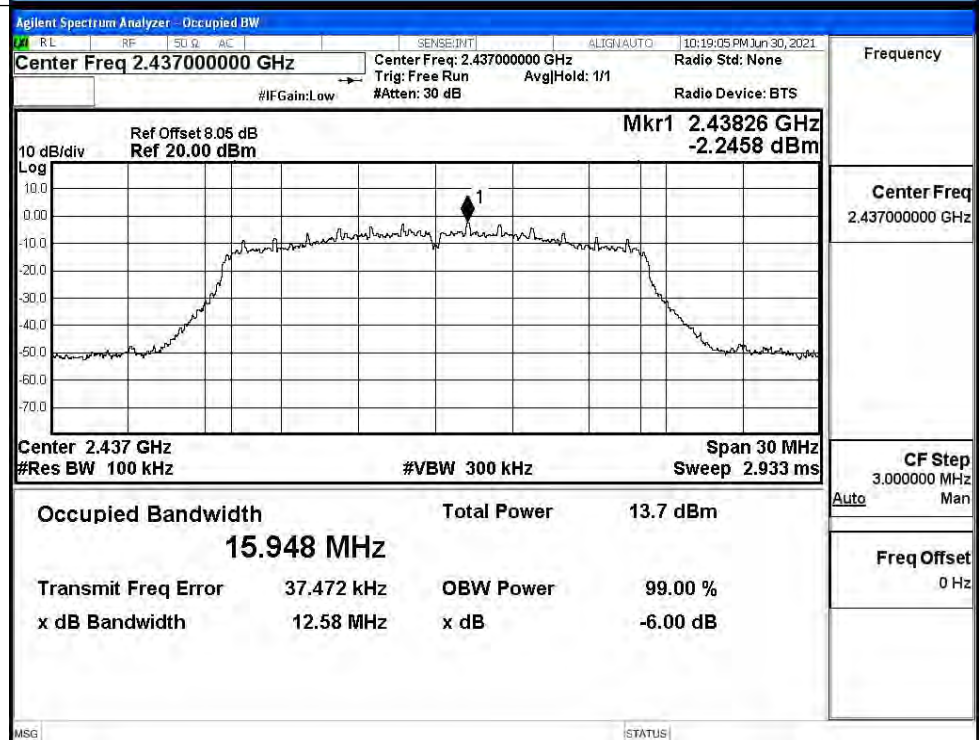




11G/LCH

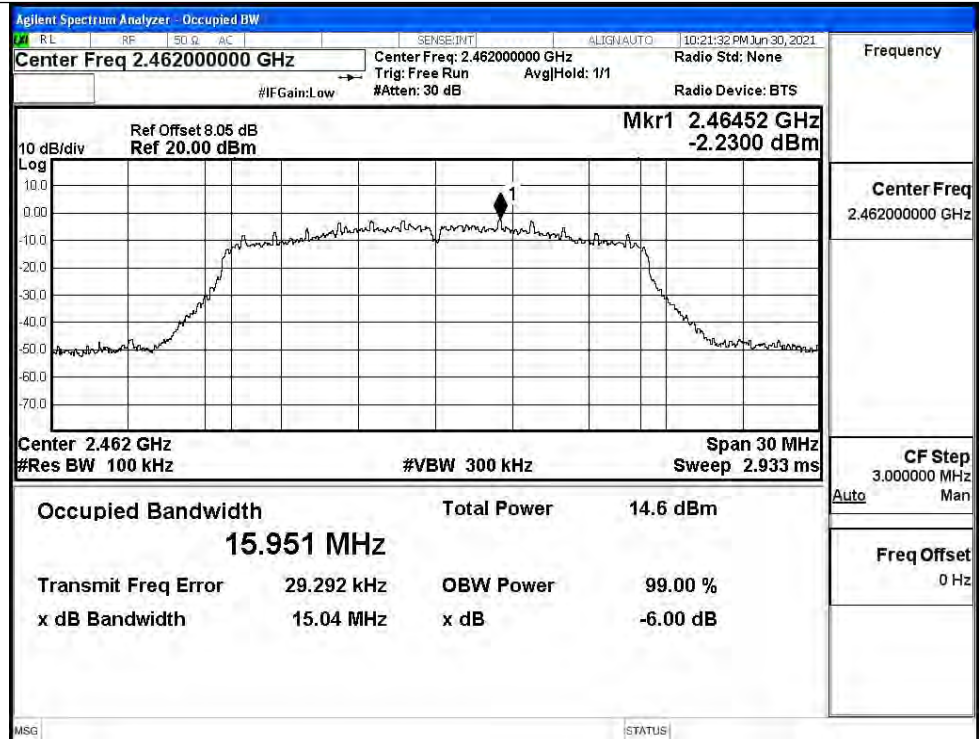


11G/MCH

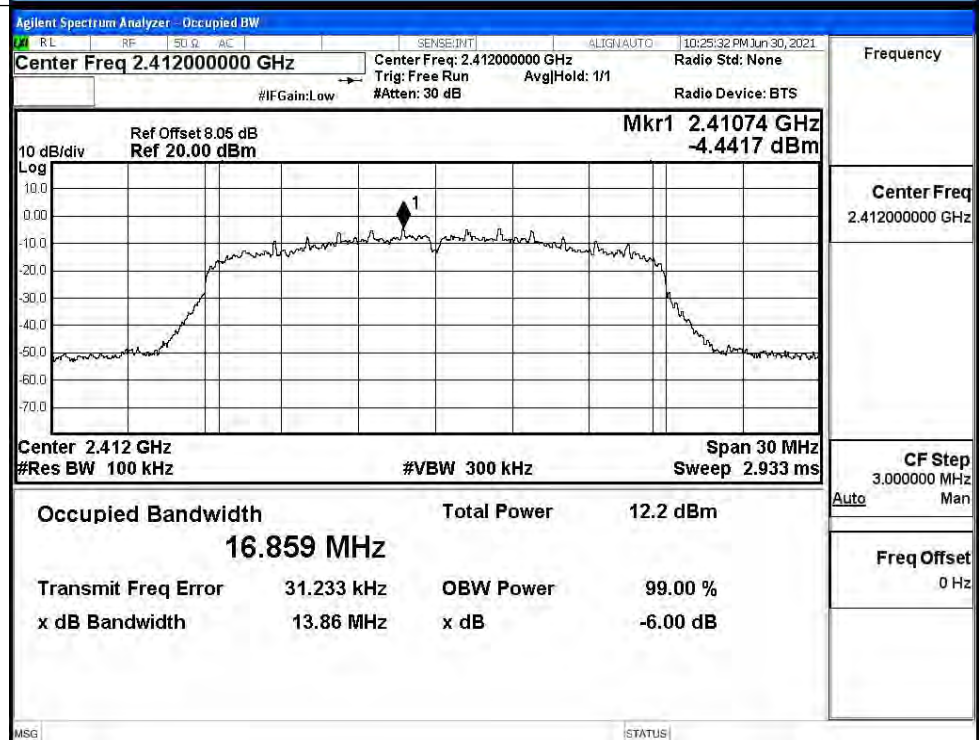




11G/HCH

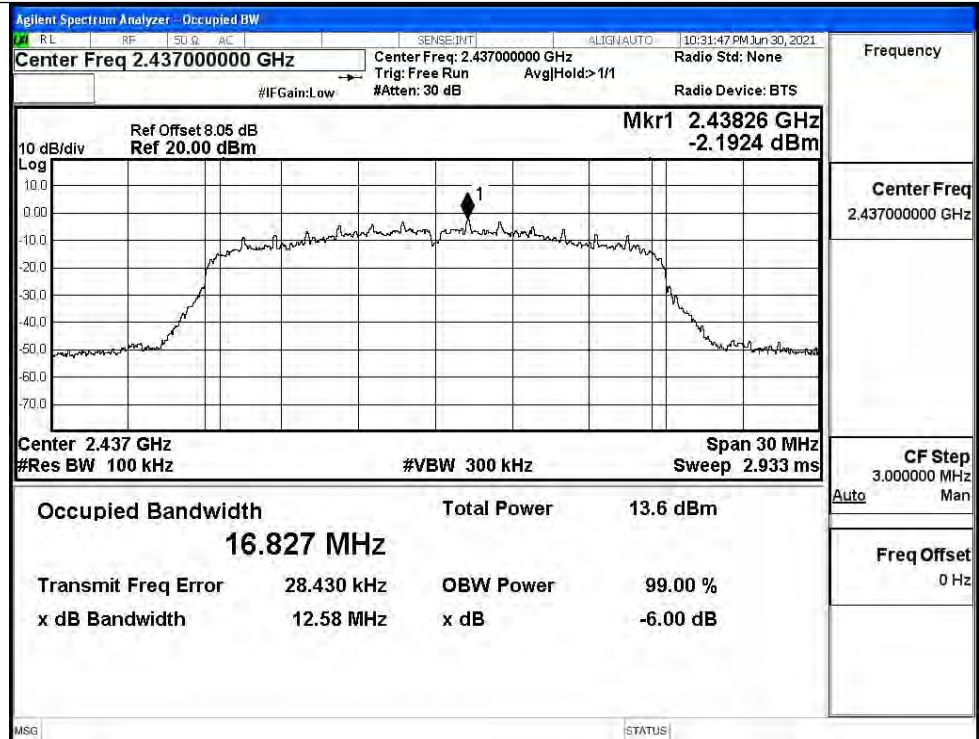


11N20SISO/LCH

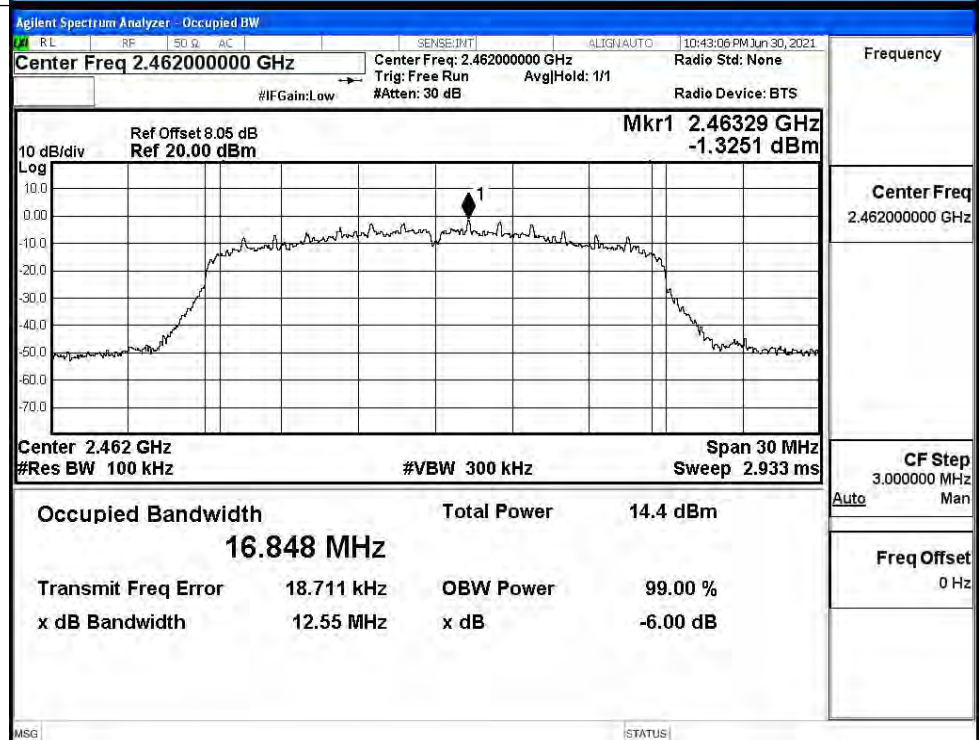




11N20SISO/MCH

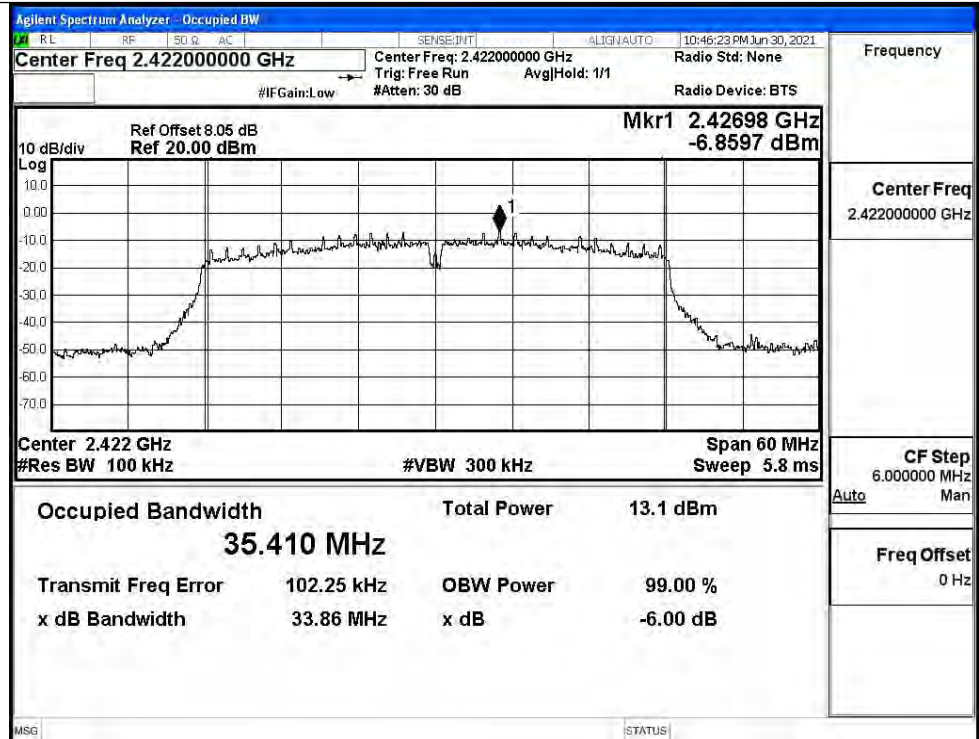


11N20SISO/HCH





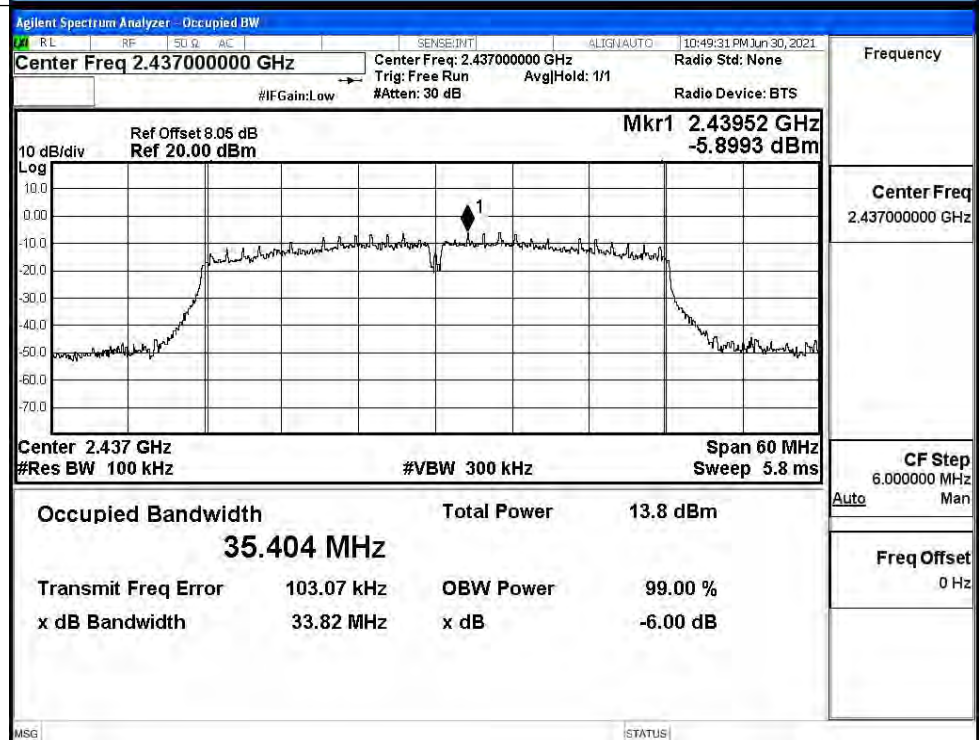
11N40SISO/LCH



Frequency

Center Freq
2.422000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

11N40SISO/MCH

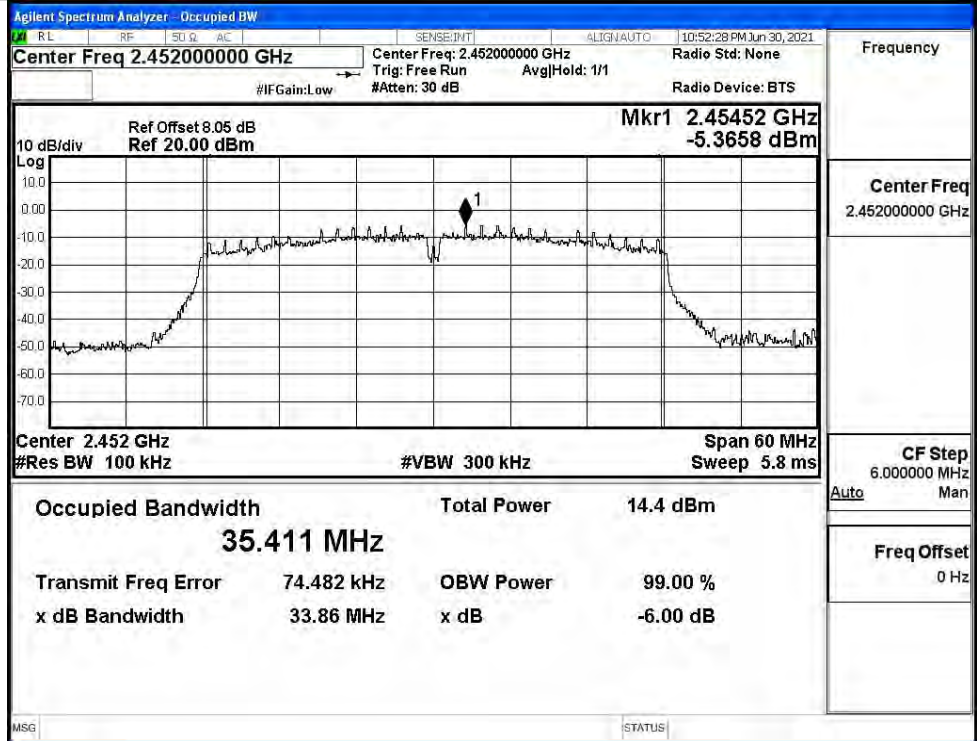


Frequency

Center Freq
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6.000000 MHz
Auto ManFreq Offset
0 Hz



11N40SISO/HCH





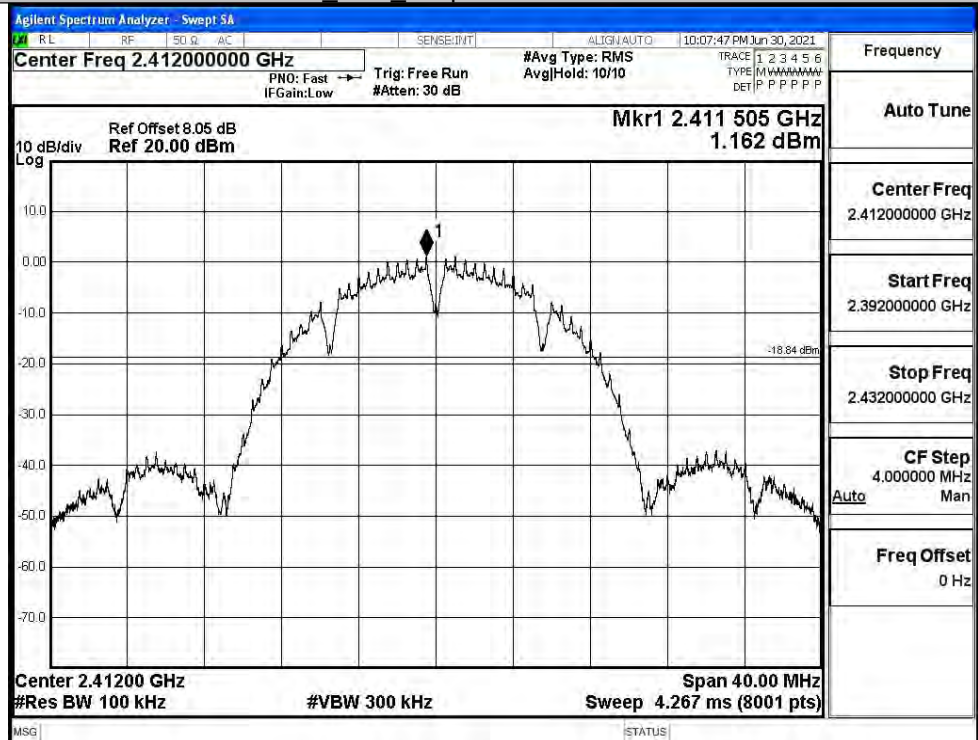
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.162	-37.818	-18.838	PASS
	MCH	2.122	-37.425	-17.878	PASS
	HCH	2.822	-38.603	-17.178	PASS
11G	LCH	-3.547	-37.375	-23.547	PASS
	MCH	-2.317	-37.903	-22.317	PASS
	HCH	-2.16	-37.833	-22.160	PASS
11N20 SISO	LCH	-3.676	-36.935	-23.676	PASS
	MCH	-2.45	-38.657	-22.450	PASS
	HCH	-1.491	-37.765	-21.491	PASS
11N40 SISO	LCH	-6.925	-38.261	-26.925	PASS
	MCH	-6.311	-38.892	-26.311	PASS
	HCH	-5.74	-37.623	-25.740	PASS

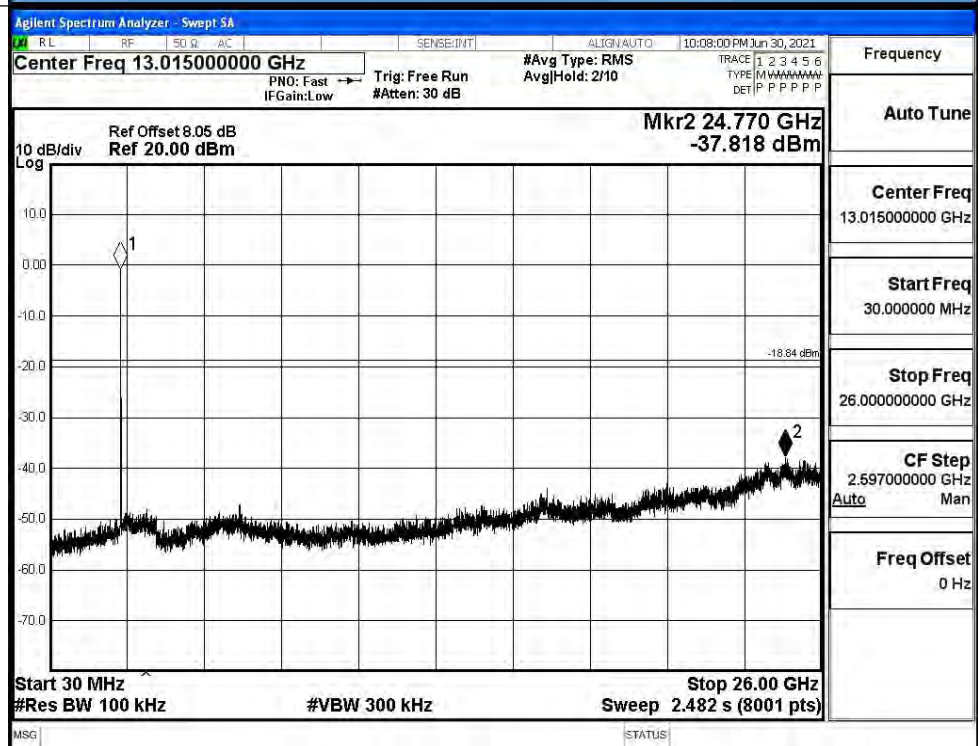


11B LCH Graphs

Pref/11B/LCH



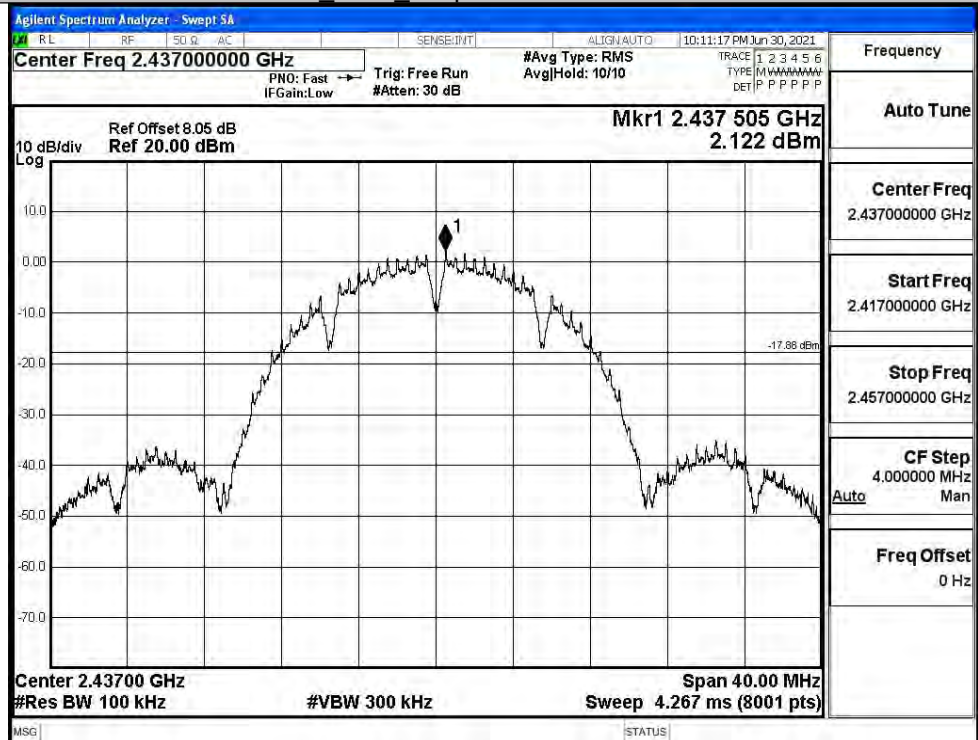
Puw/11B/LCH



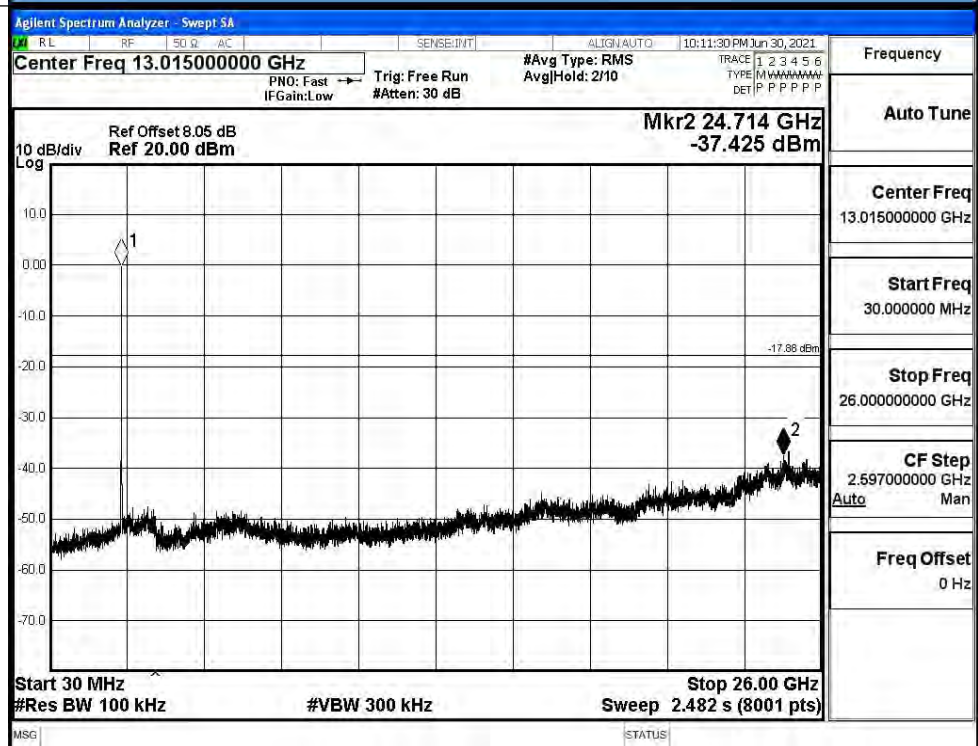


11B MCH Graphs

Pref/11B/MCH



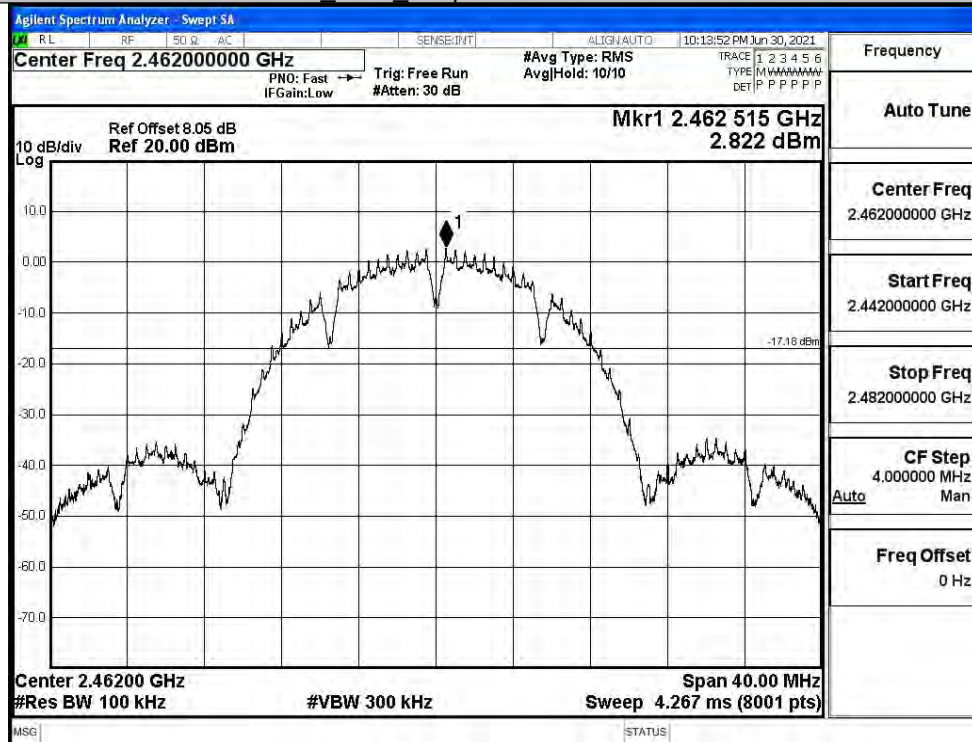
Puw/11B/MCH



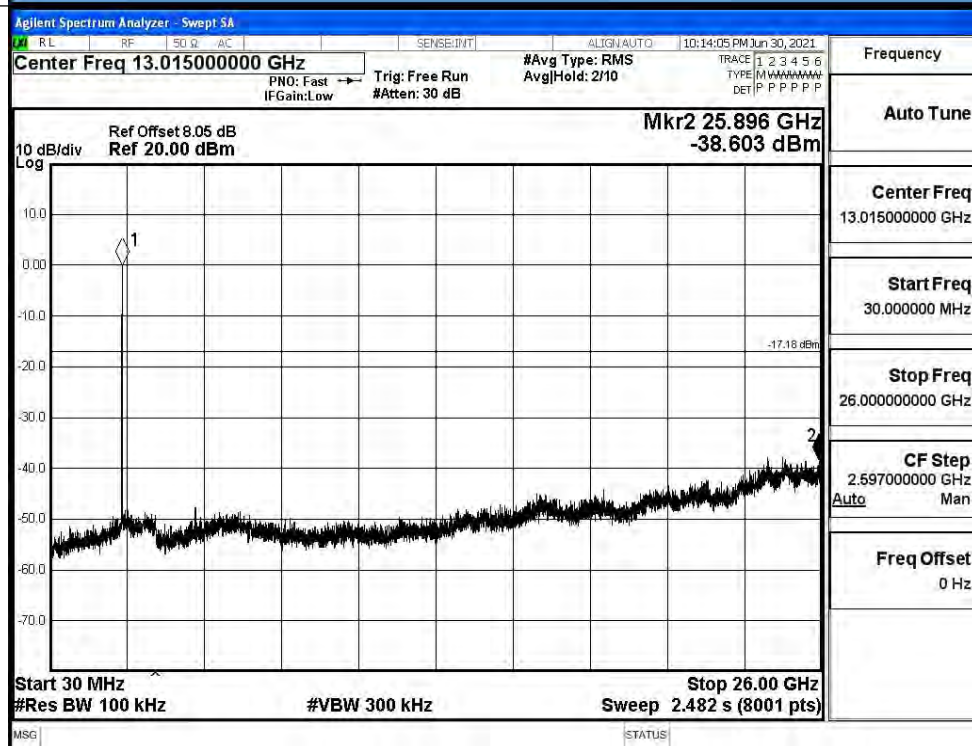


11B HCH Graphs

Pref/11B/HCH



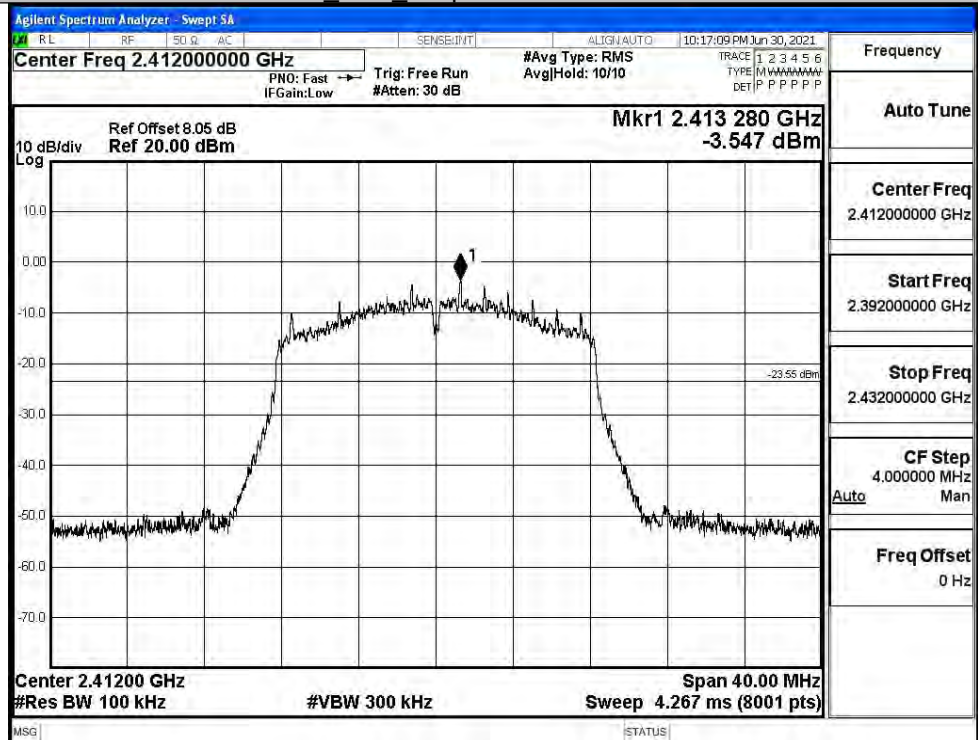
Puw/11B/HCH



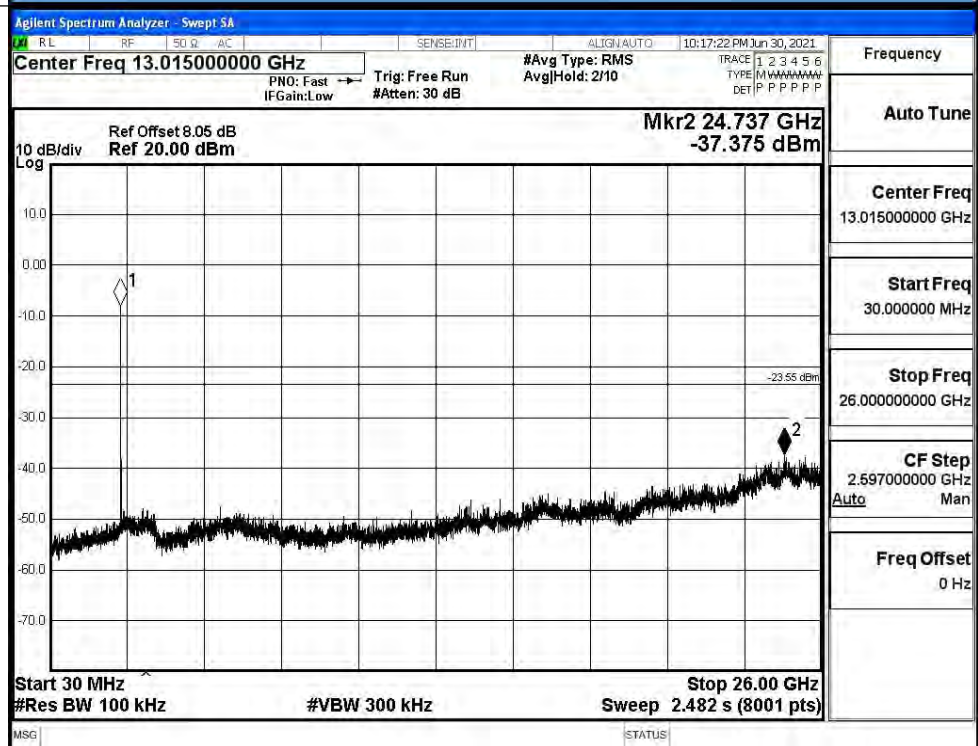


11G LCH Graphs

Pref/11G/LCH



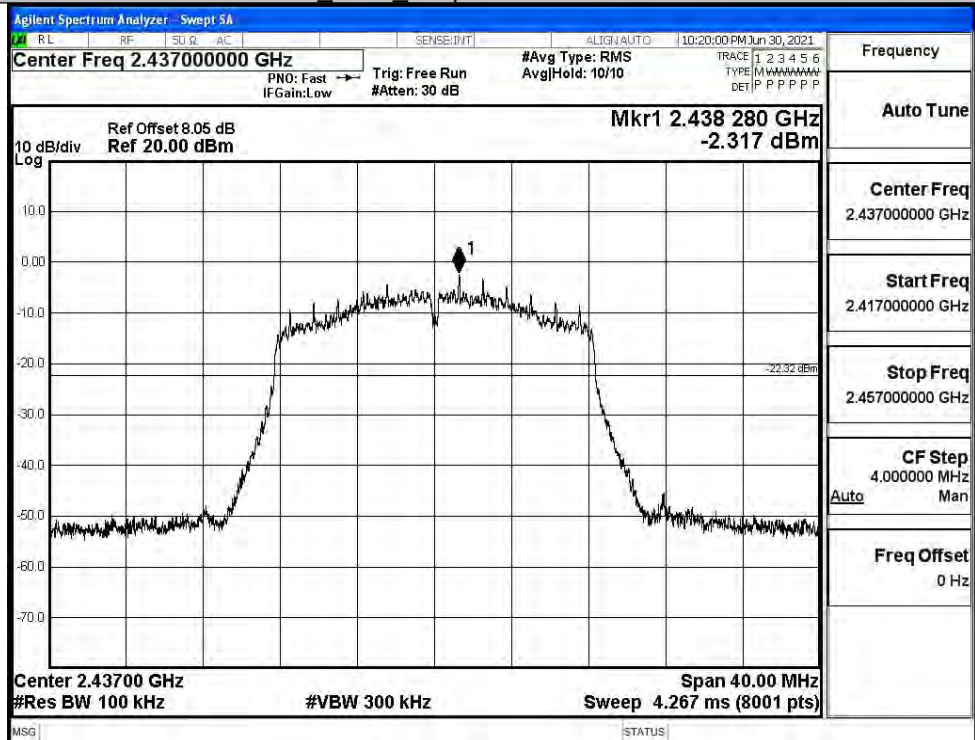
Puw/11G/LCH



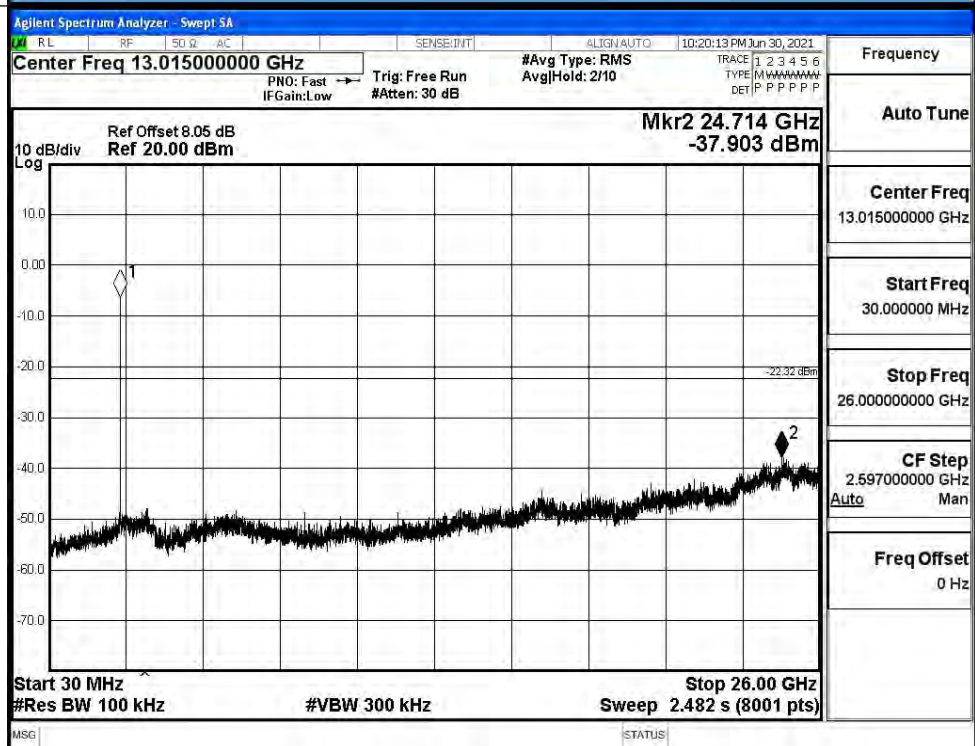


11G MCH Graphs

Pref/11G/MCH



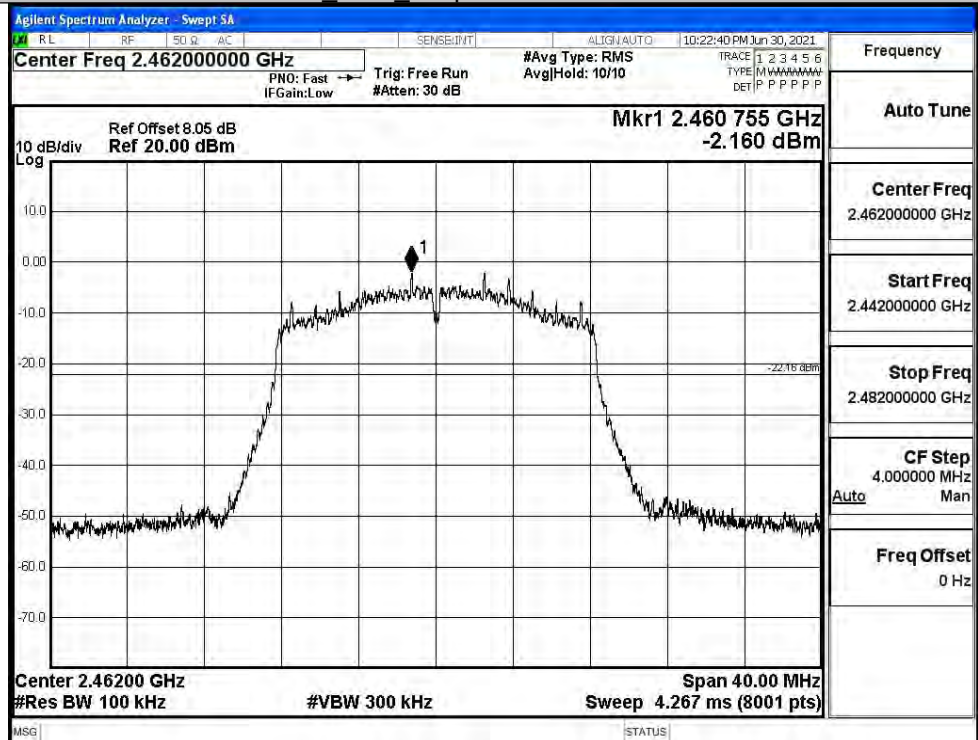
Puw/11G/MCH



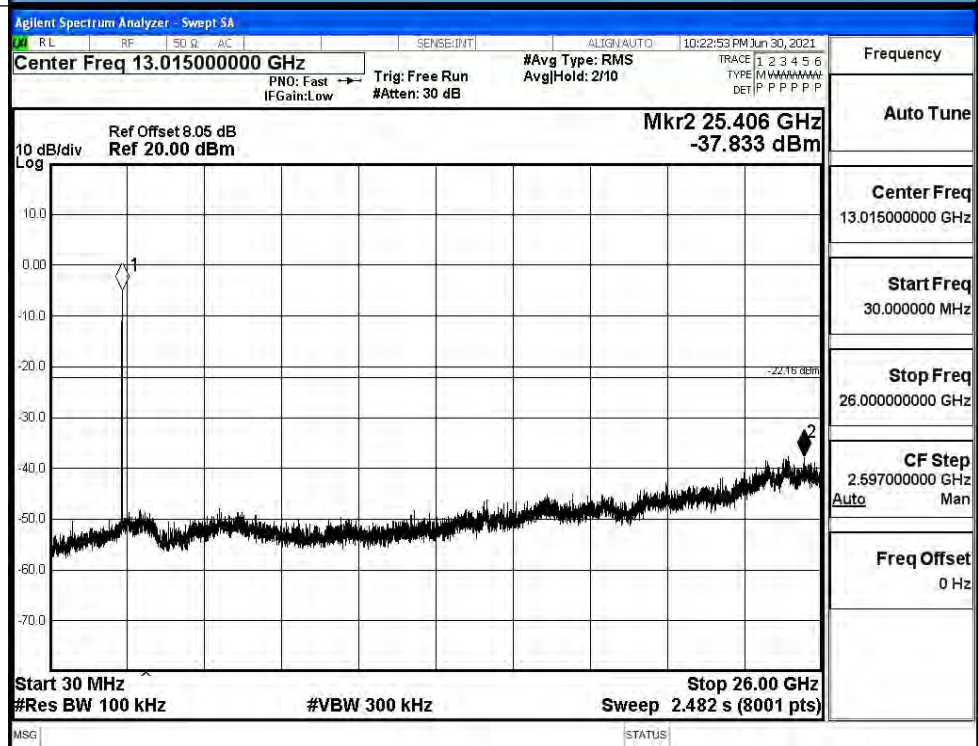


11G HCH Graphs

Pref/11G/HCH

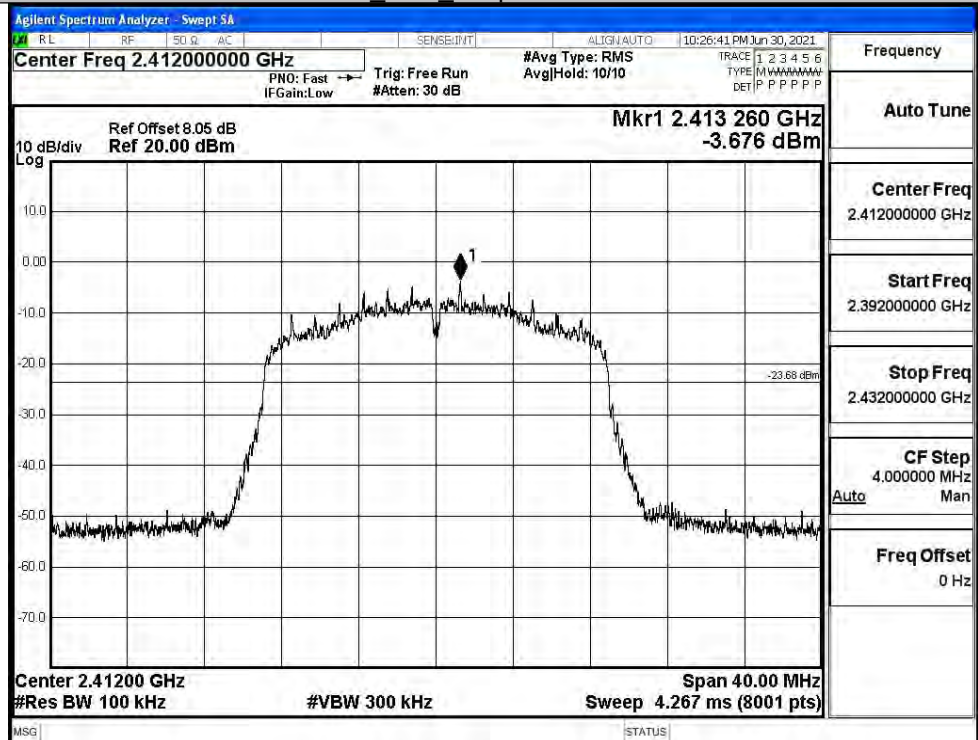
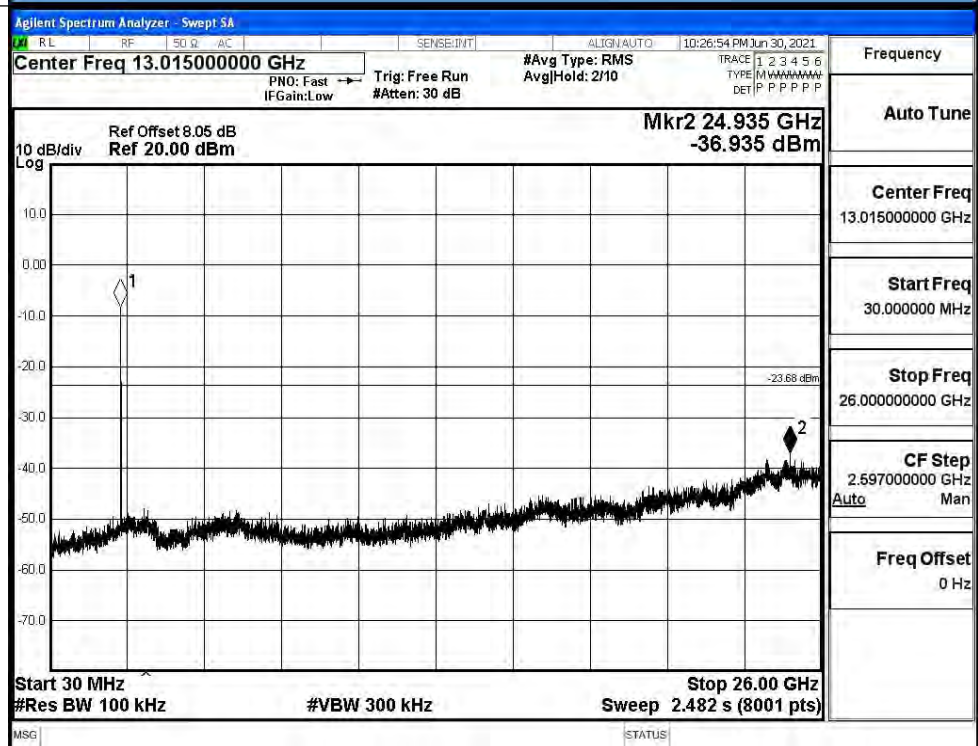


Puw/11G/HCH



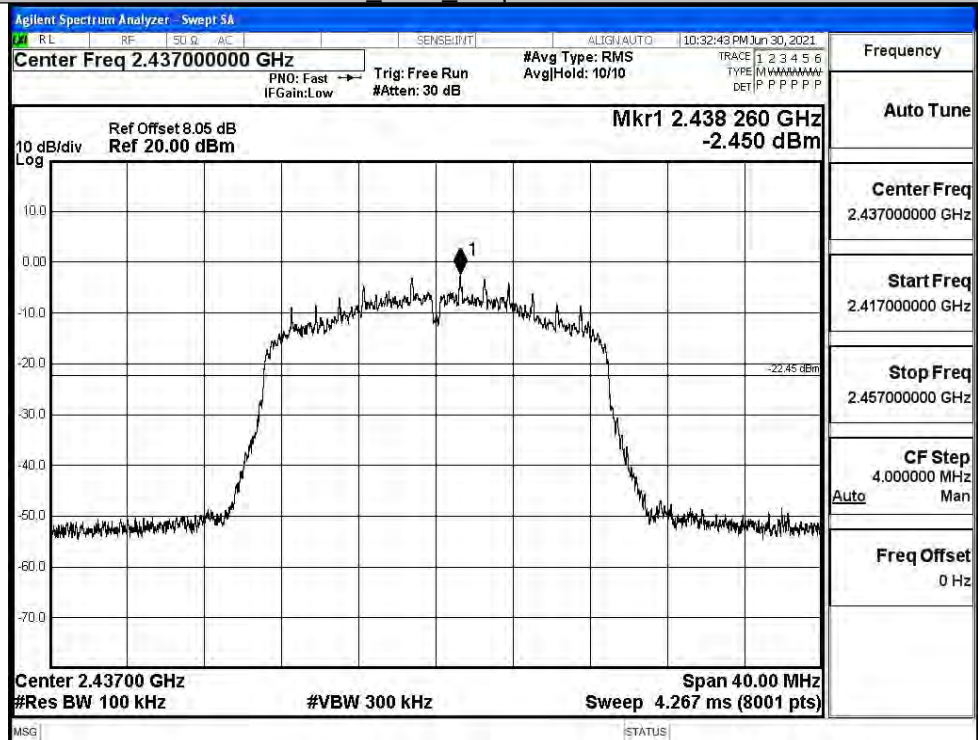
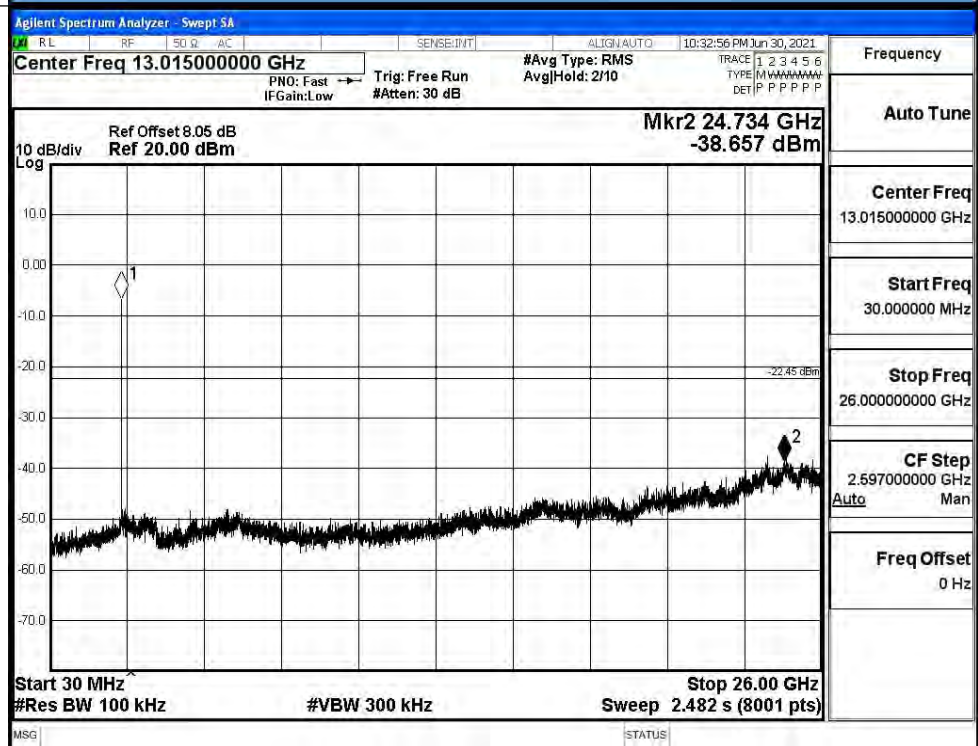


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

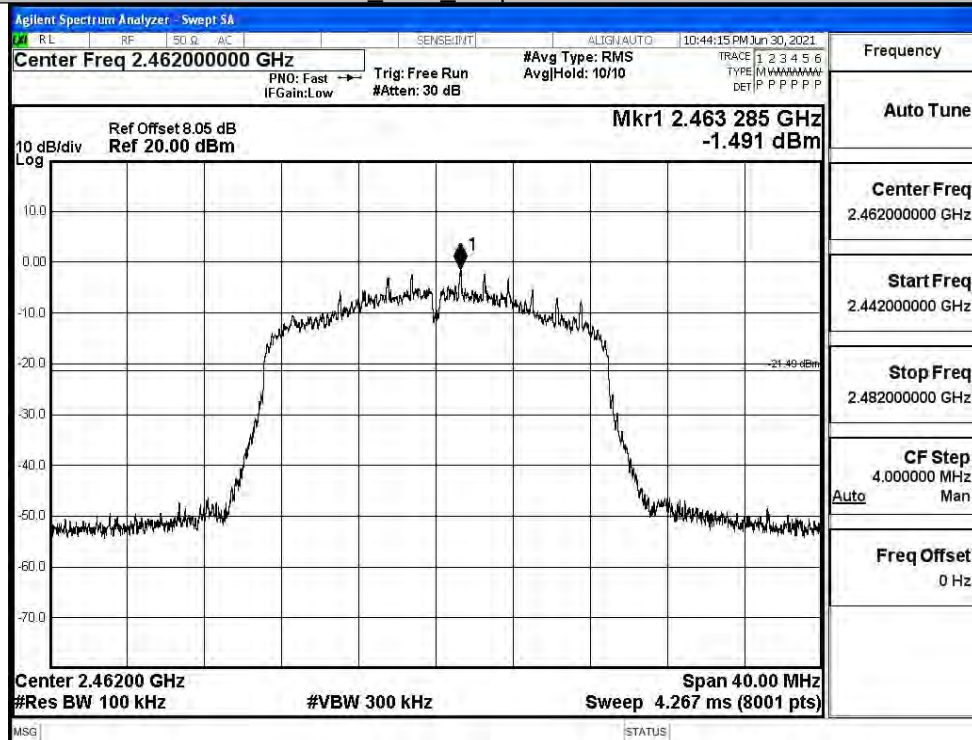
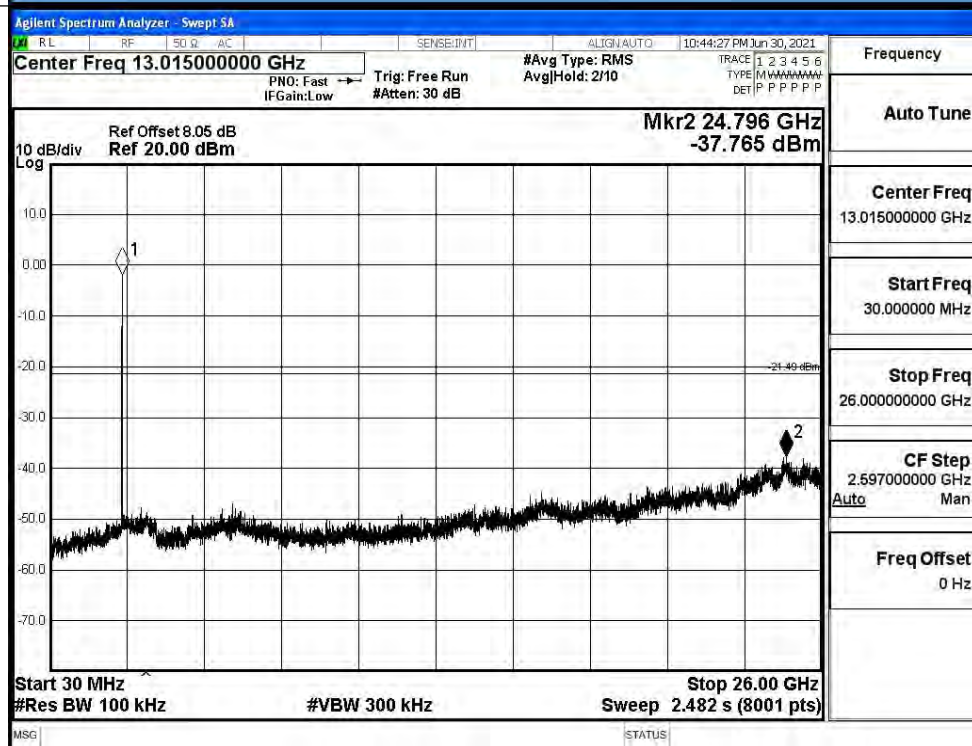


11N20SISO MCH_Graphs

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

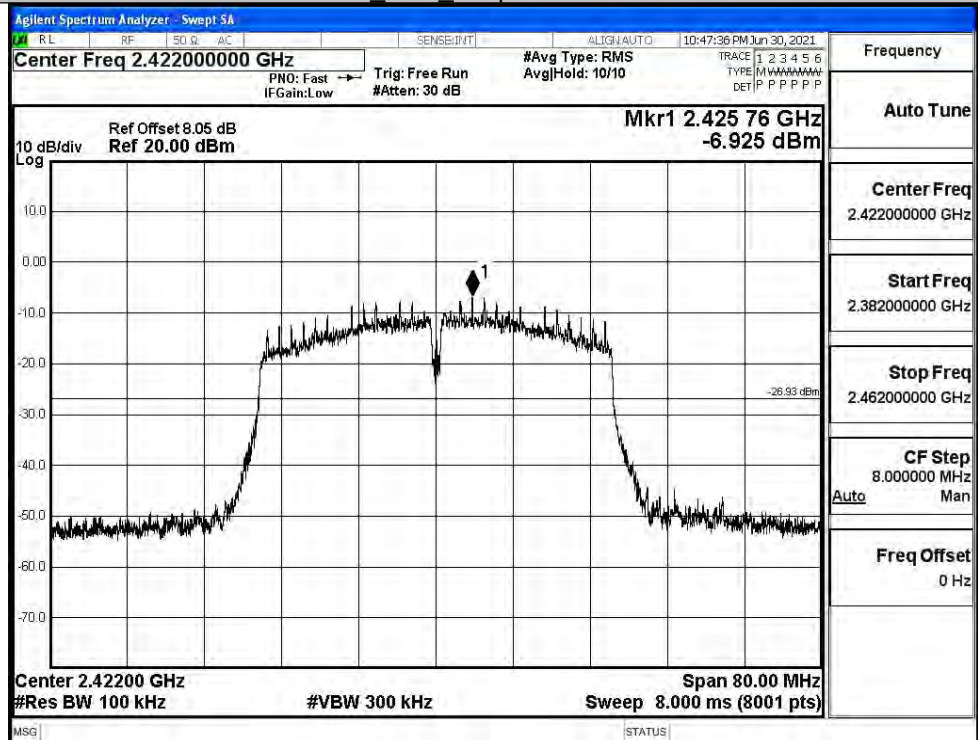
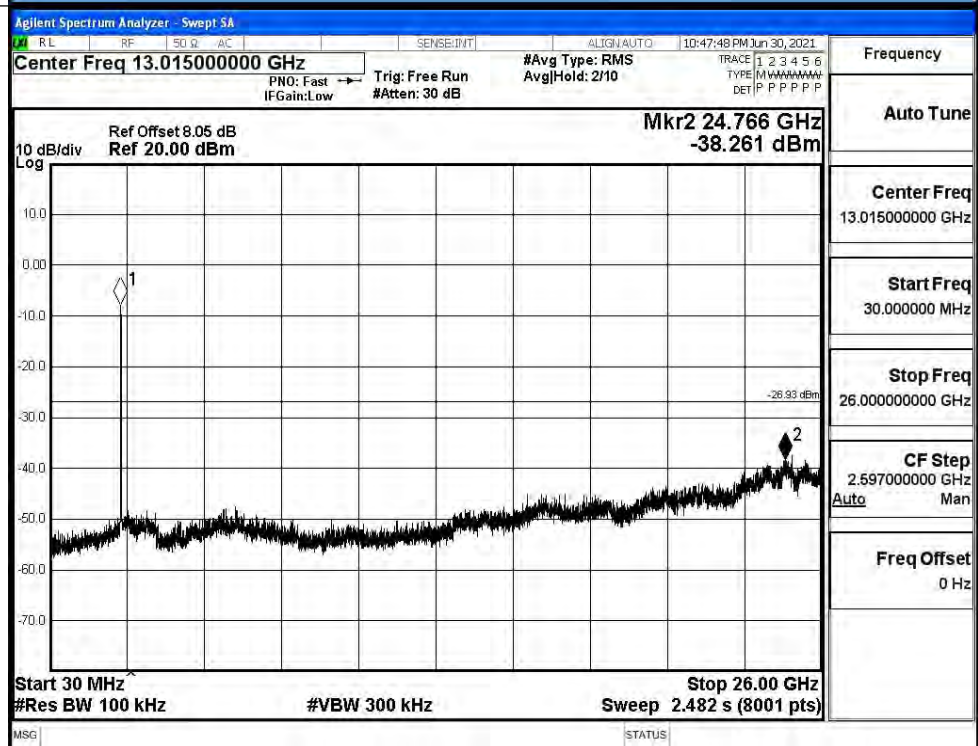


11N20SISO HCH Graphs

Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

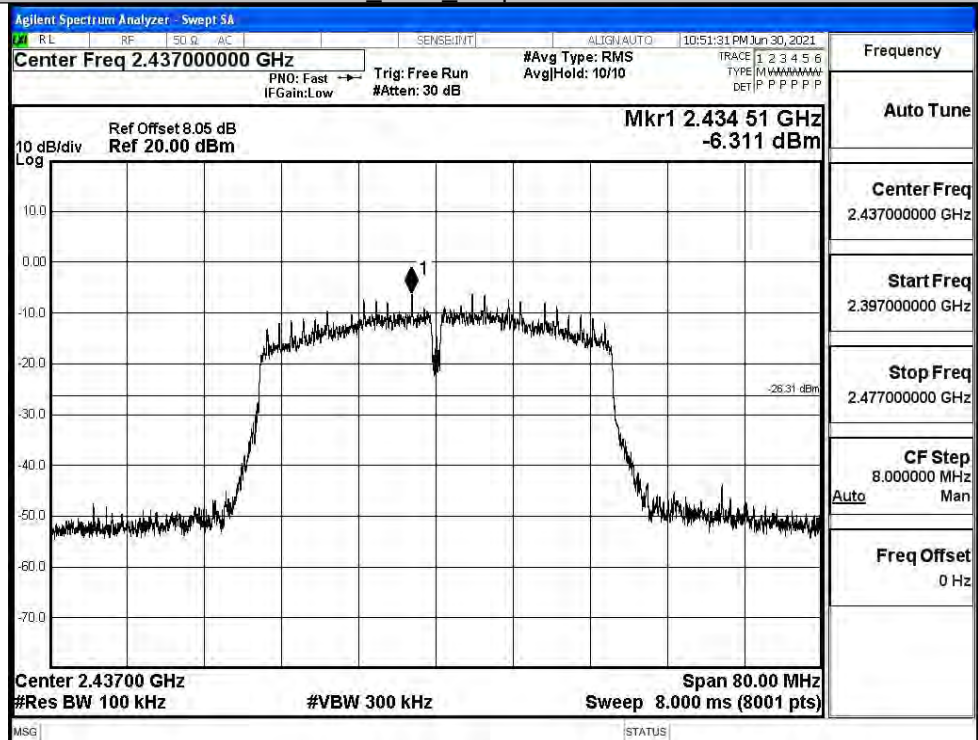
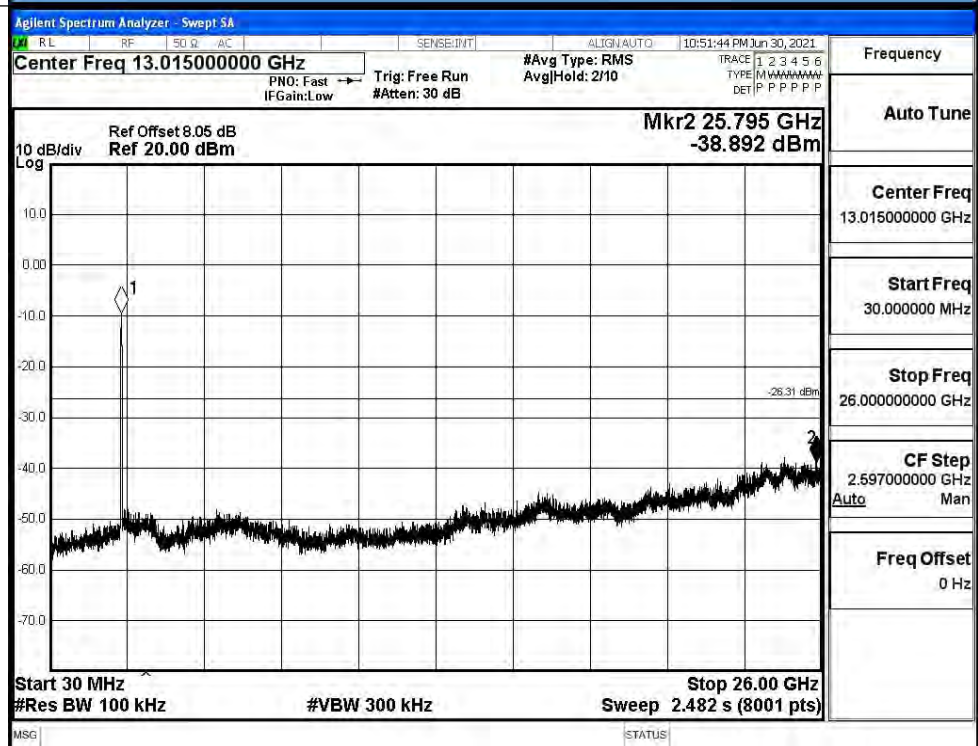


11N40SISO LCH Graphs

Pref/11N40
SISO/LCHPuw/11N40
SISO/LCH

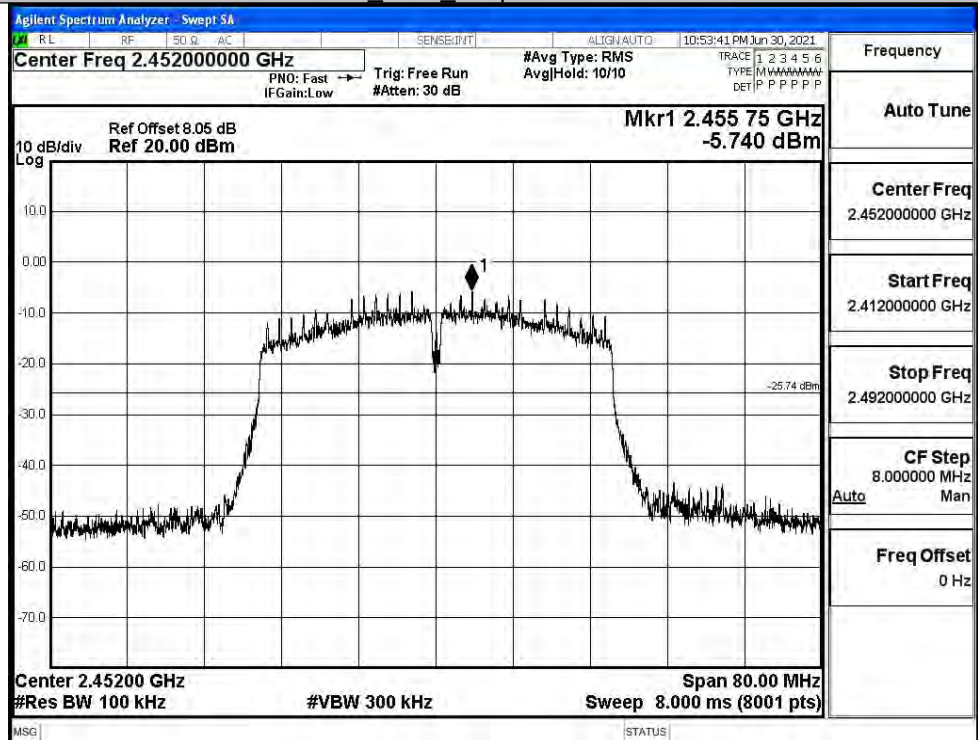
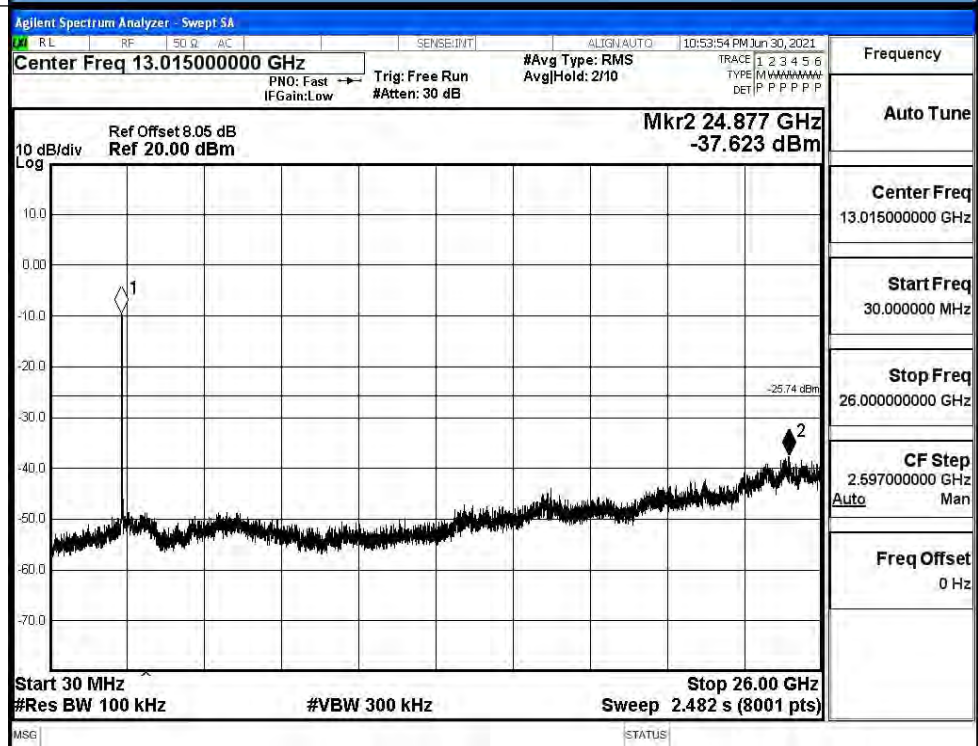


11N40SISO MCH_Graphs

Pref/11N40
SISO/MCHPuw/11N40
SISO/MCH

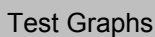


11N40SISO HCH Graphs

Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

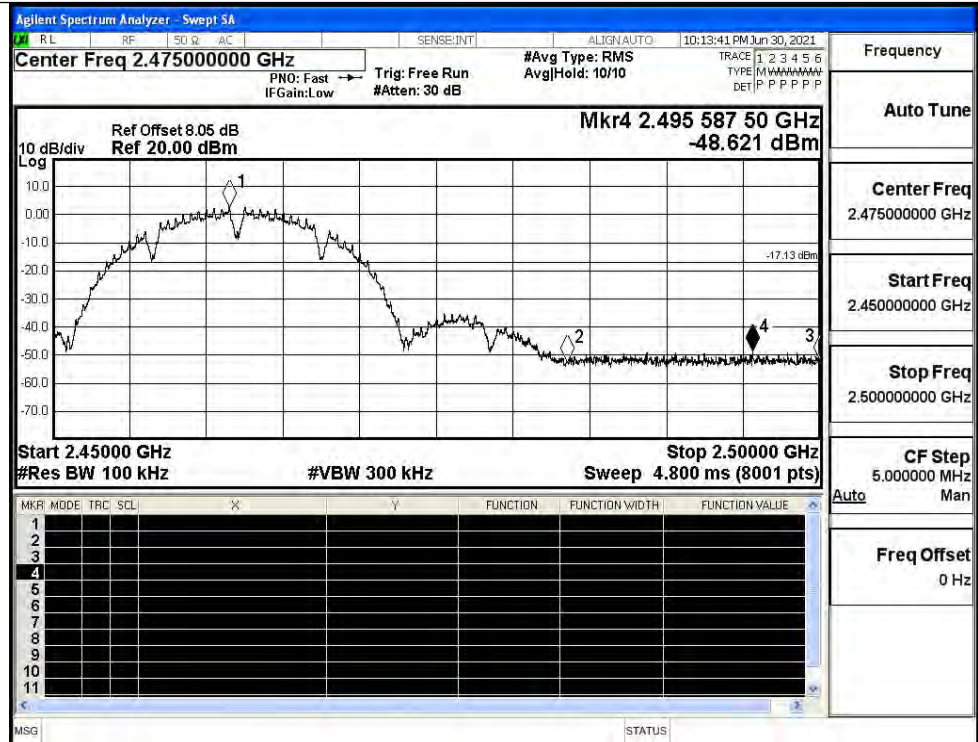


Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.228	-49.226	-18.77	PASS
	HCH	2.866	-48.621	-17.13	PASS
11G	LCH	-3.884	-49.210	-23.88	PASS
	HCH	-1.587	-48.758	-21.59	PASS
11N20SISO	LCH	-4.481	-49.214	-24.48	PASS
	HCH	-2.475	-49.525	-22.48	PASS
11N40SISO	LCH	-6.839	-49.644	-26.84	PASS
	HCH	-5.399	-45.544	-25.4	PASS

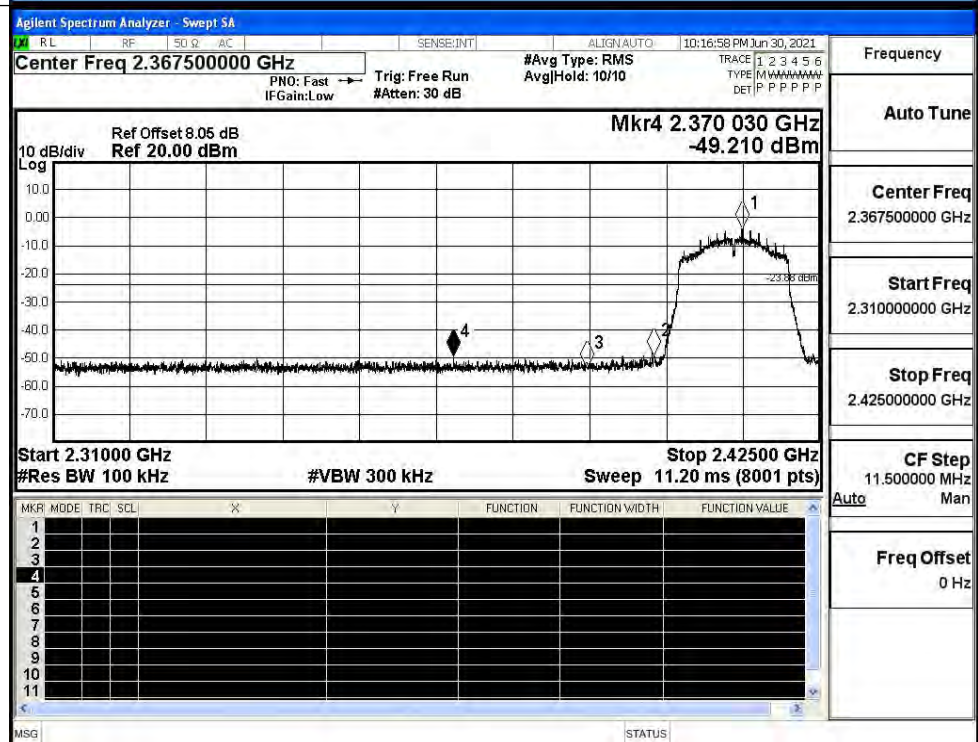




11B/HCH

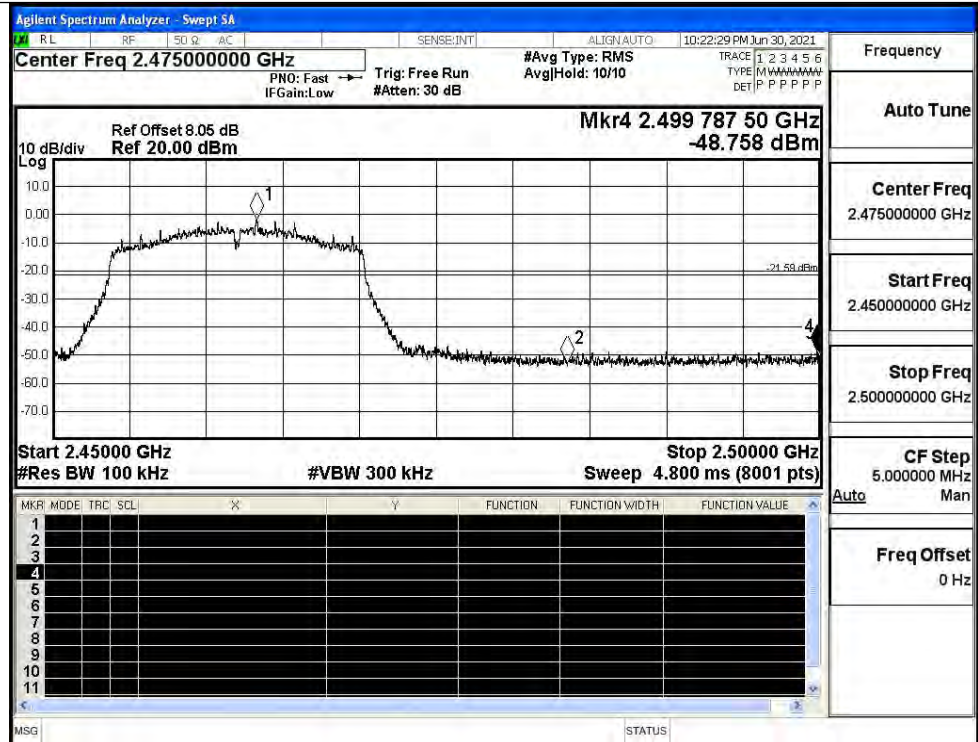


11G/LCH

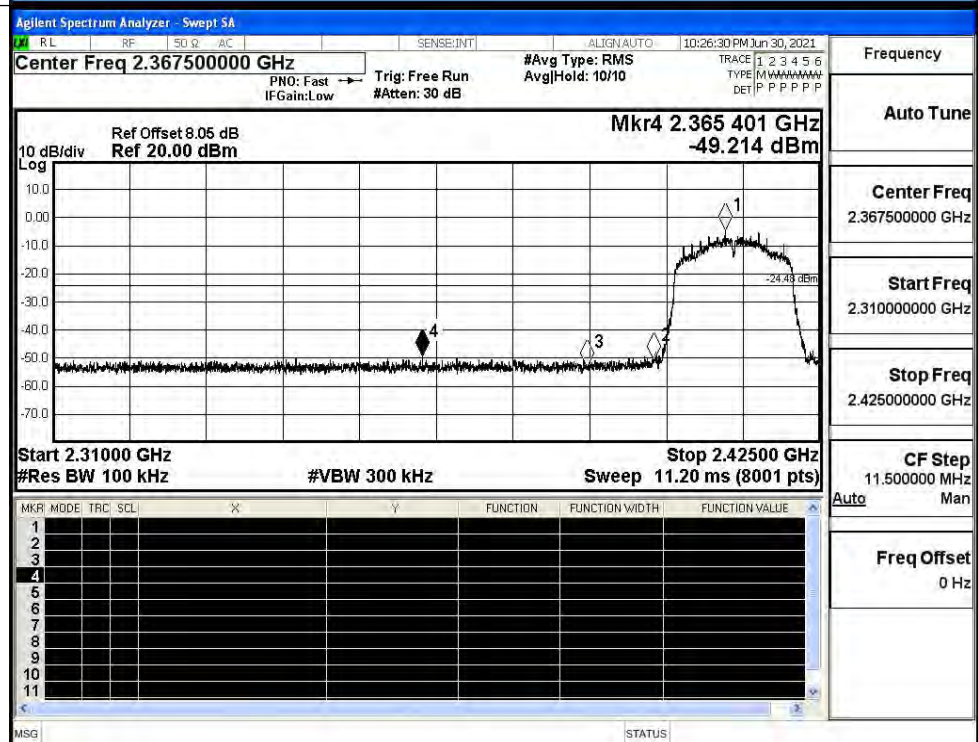


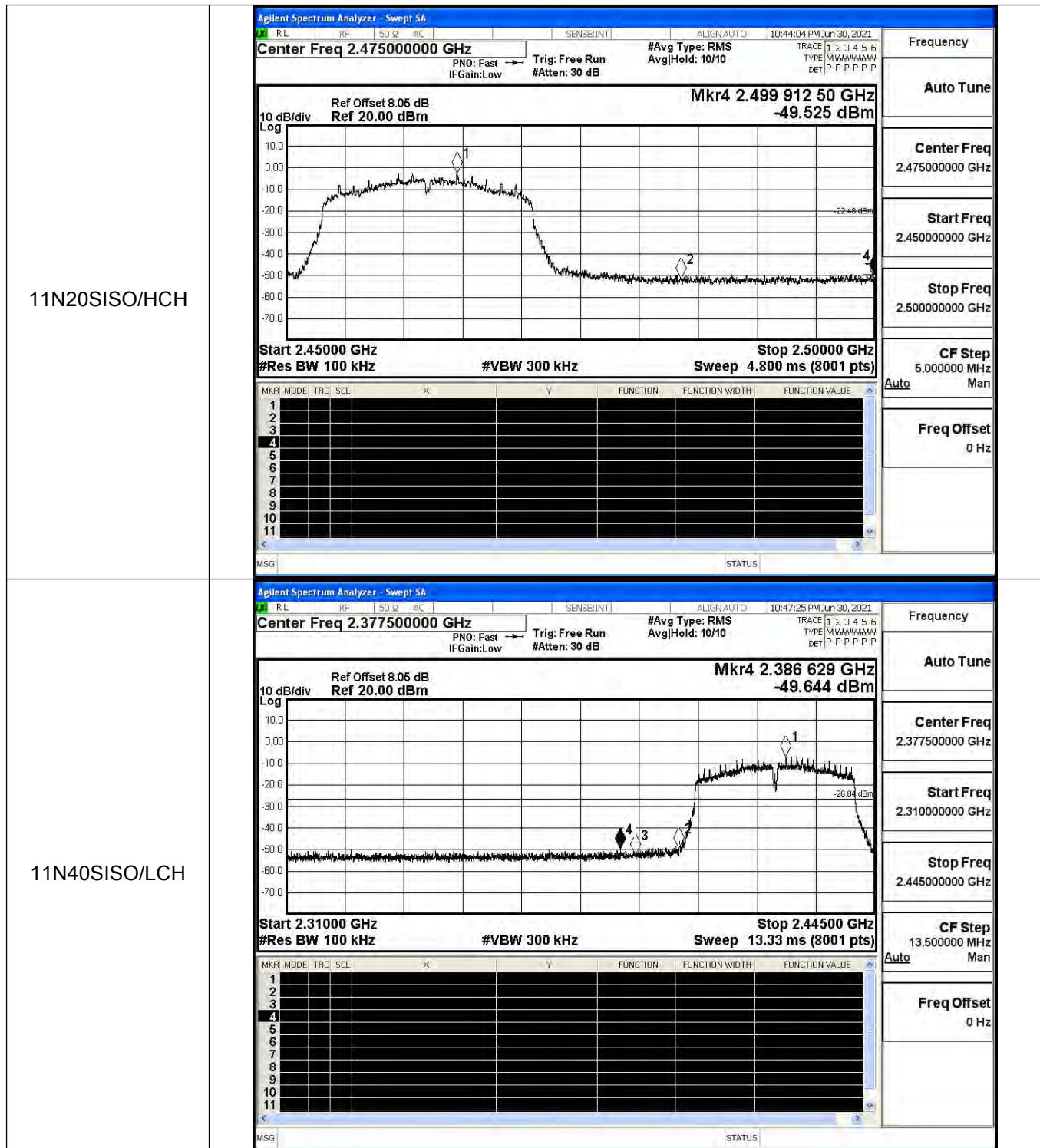


11G/HCH



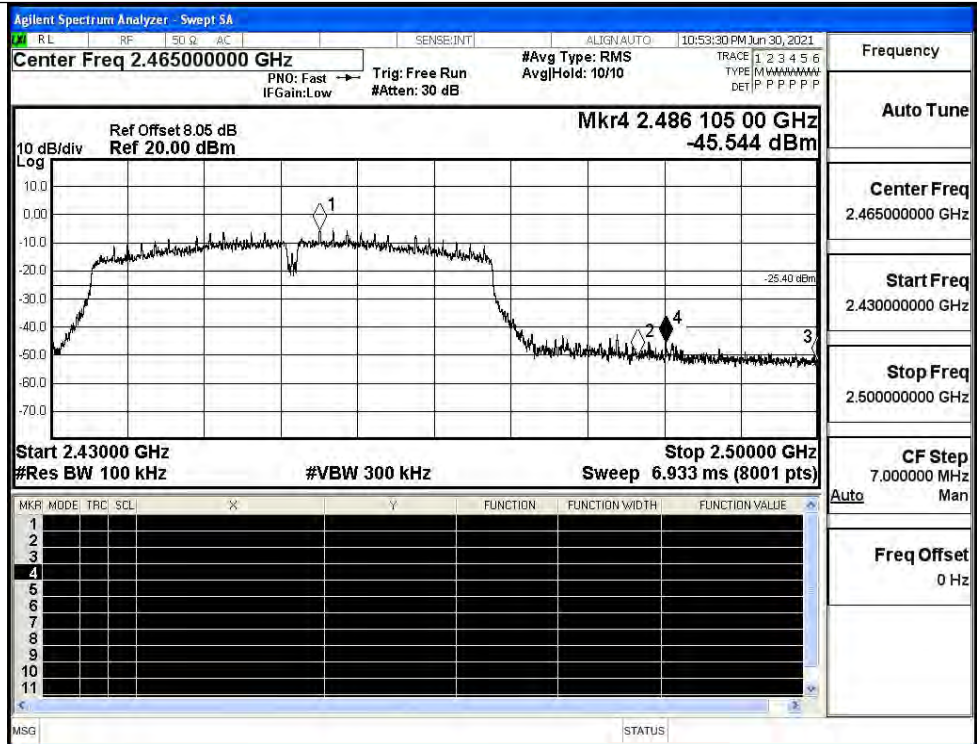
11N20SISO/LCH







11N40SISO/HCH



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

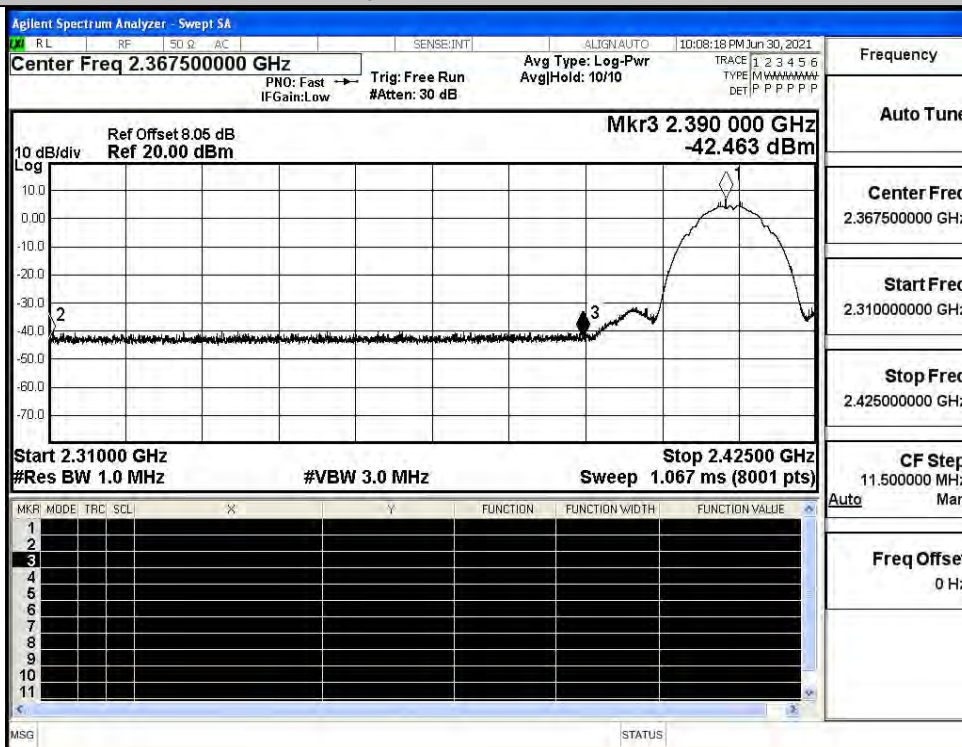
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.35	2.0	0	53.88	PEAK	74	PASS
	2412	Ant1	2310.0	-53.63	2.0	0	43.60	AV	54	PASS
	2412	Ant1	2390.0	-42.46	2.0	0	54.77	PEAK	74	PASS
	2412	Ant1	2390.0	-52.98	2.0	0	44.25	AV	54	PASS
	2462	Ant1	2483.5	-41.14	2.0	0	56.09	PEAK	74	PASS
	2462	Ant1	2483.5	-52.36	2.0	0	44.87	AV	54	PASS
	2462	Ant1	2500.0	-42.29	2.0	0	54.94	PEAK	74	PASS
	2462	Ant1	2500.0	-52.23	2.0	0	45.00	AV	54	PASS
11G	2412	Ant1	2310.0	-44.17	2.0	0	53.06	PEAK	74	PASS
	2412	Ant1	2310.0	-53.61	2.0	0	43.62	AV	54	PASS
	2412	Ant1	2390.0	-42.45	2.0	0	54.78	PEAK	74	PASS
	2412	Ant1	2390.0	-53.14	2.0	0	44.09	AV	54	PASS
	2462	Ant1	2483.5	-42.00	2.0	0	55.23	PEAK	74	PASS
	2462	Ant1	2483.5	-52.43	2.0	0	44.80	AV	54	PASS
	2462	Ant1	2500.0	-41.43	2.0	0	55.80	PEAK	74	PASS
	2462	Ant1	2500.0	-52.09	2.0	0	45.14	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.45	2.0	0	53.78	PEAK	74	PASS
	2412	Ant1	2310.0	-53.63	2.0	0	43.60	AV	54	PASS
	2412	Ant1	2390.0	-41.42	2.0	0	55.81	PEAK	74	PASS
	2412	Ant1	2390.0	-53.12	2.0	0	44.11	AV	54	PASS
	2462	Ant1	2483.5	-40.88	2.0	0	56.35	PEAK	74	PASS
	2462	Ant1	2483.5	-52.43	2.0	0	44.80	AV	54	PASS
	2462	Ant1	2500.0	-41.86	2.0	0	55.37	PEAK	74	PASS
	2462	Ant1	2500.0	-52.13	2.0	0	45.10	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.30	2.0	0	54.93	PEAK	74	PASS
	2422	Ant1	2310.0	-53.63	2.0	0	43.60	AV	54	PASS



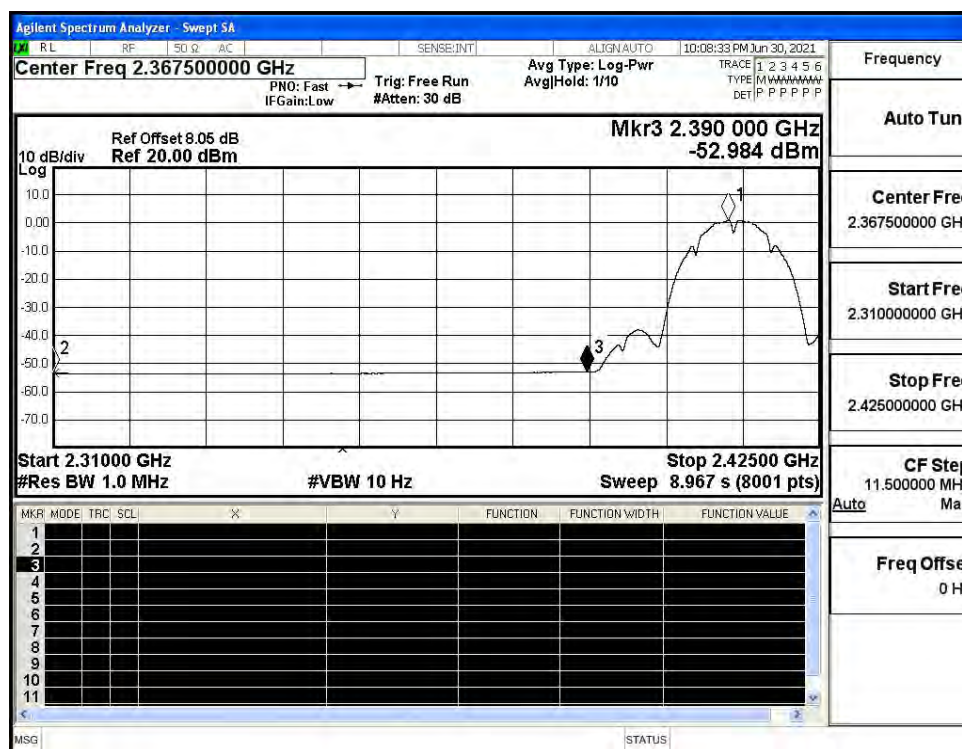
	2422	Ant1	2390.0	-39.62	2.0	0	57.61	PEAK	74	PASS
	2422	Ant1	2390.0	-52.39	2.0	0	44.84	AV	54	PASS
	2452	Ant1	2483.5	-38.07	2.0	0	59.16	PEAK	74	PASS
	2452	Ant1	2483.5	-50.40	2.0	0	46.83	AV	54	PASS
	2452	Ant1	2500.0	-41.88	2.0	0	55.35	PEAK	74	PASS
	2452	Ant1	2500.0	-52.10	2.0	0	45.13	AV	54	PASS



Restrict-band band-edge measurements_11B_2412_Ant1_PEAK

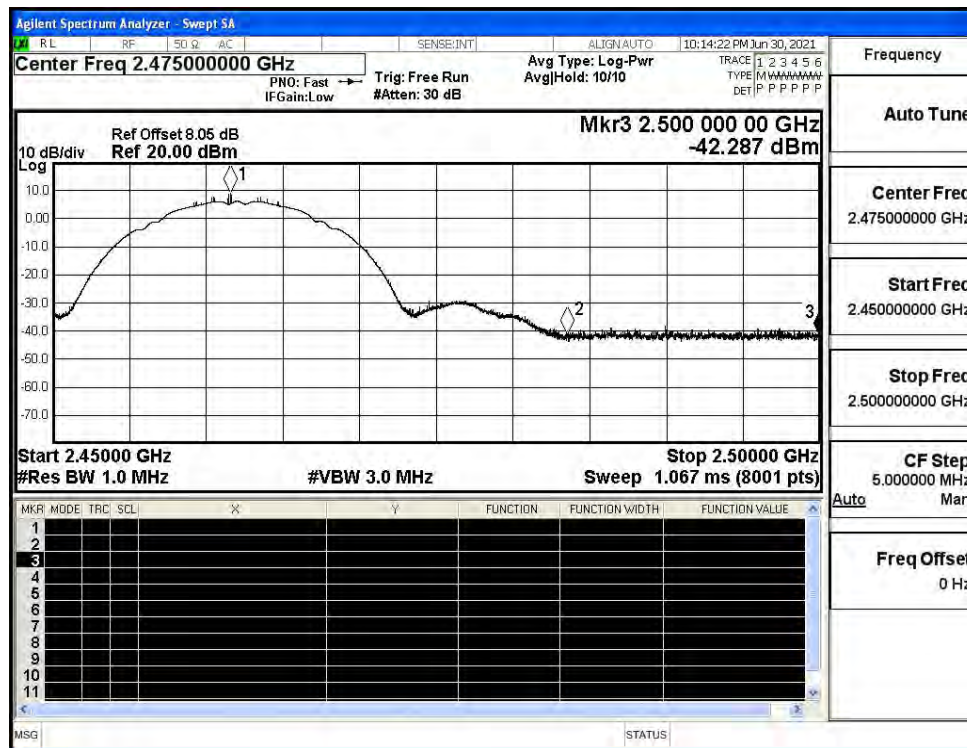


Restrict-band band-edge measurements_11B_2412_Ant1_AV

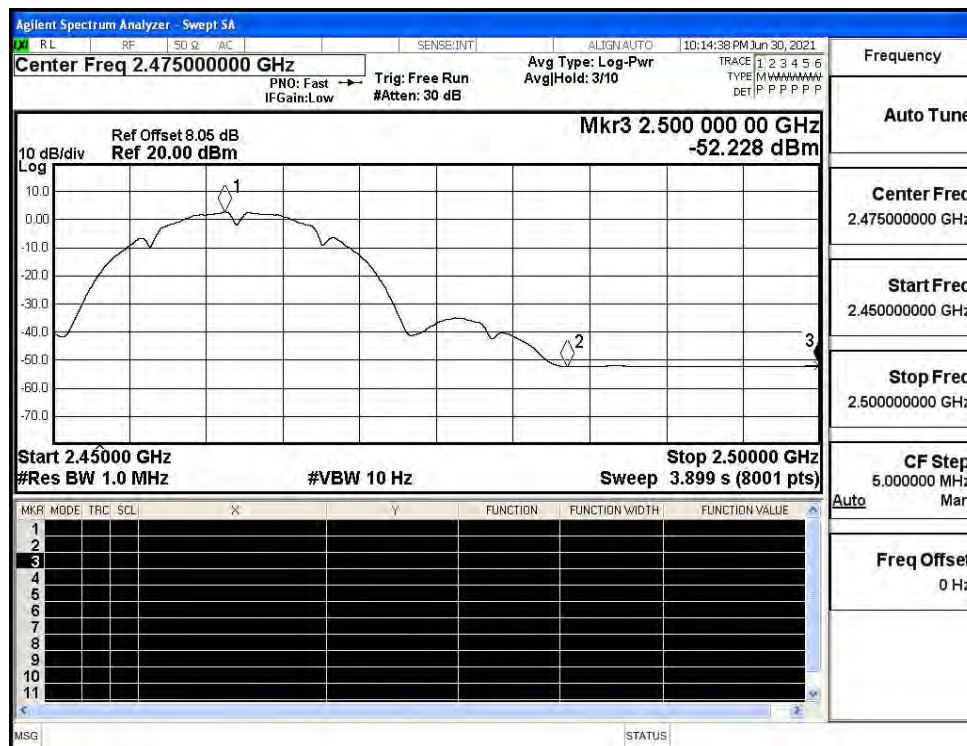




Restrict-band band-edge measurements_11B_2462_Ant1_PEAK

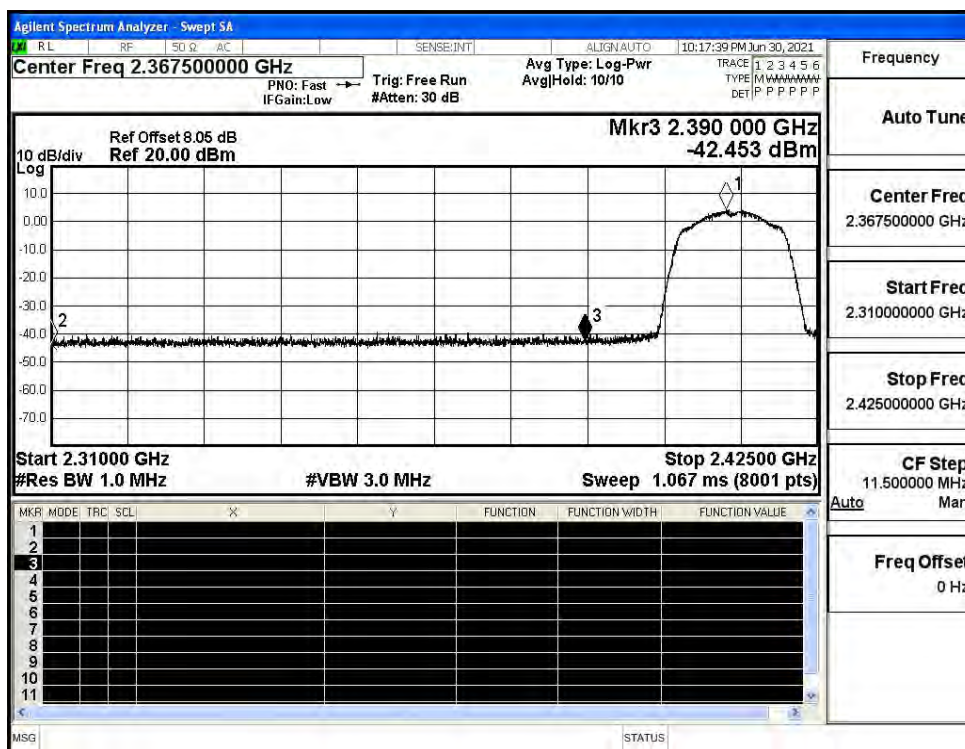


Restrict-band band-edge measurements_11B_2462_Ant1_AV

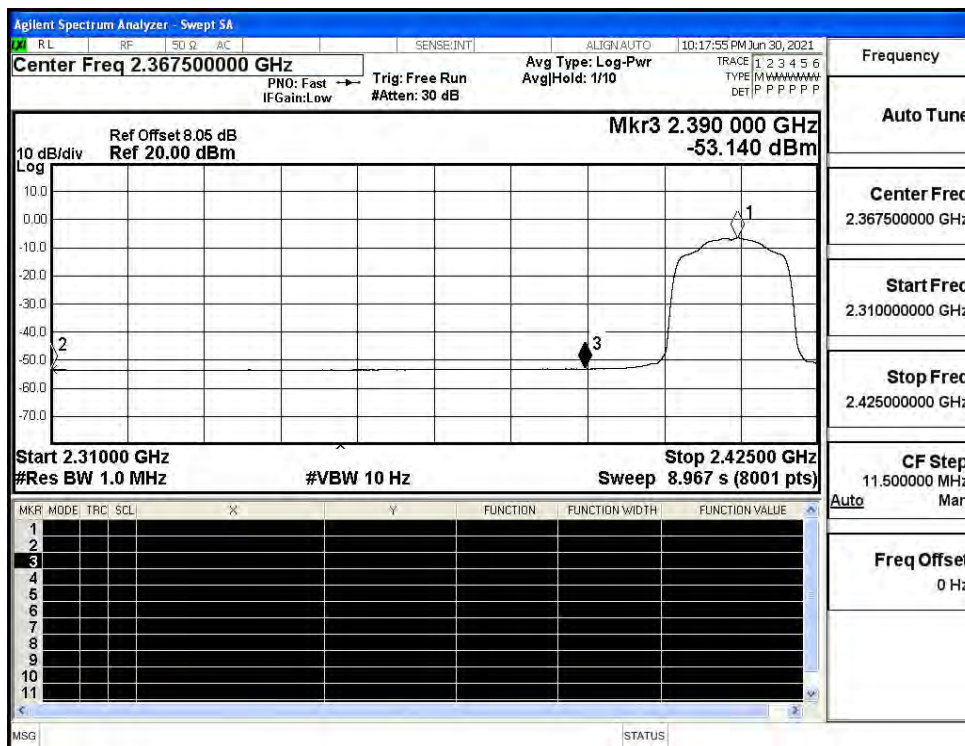




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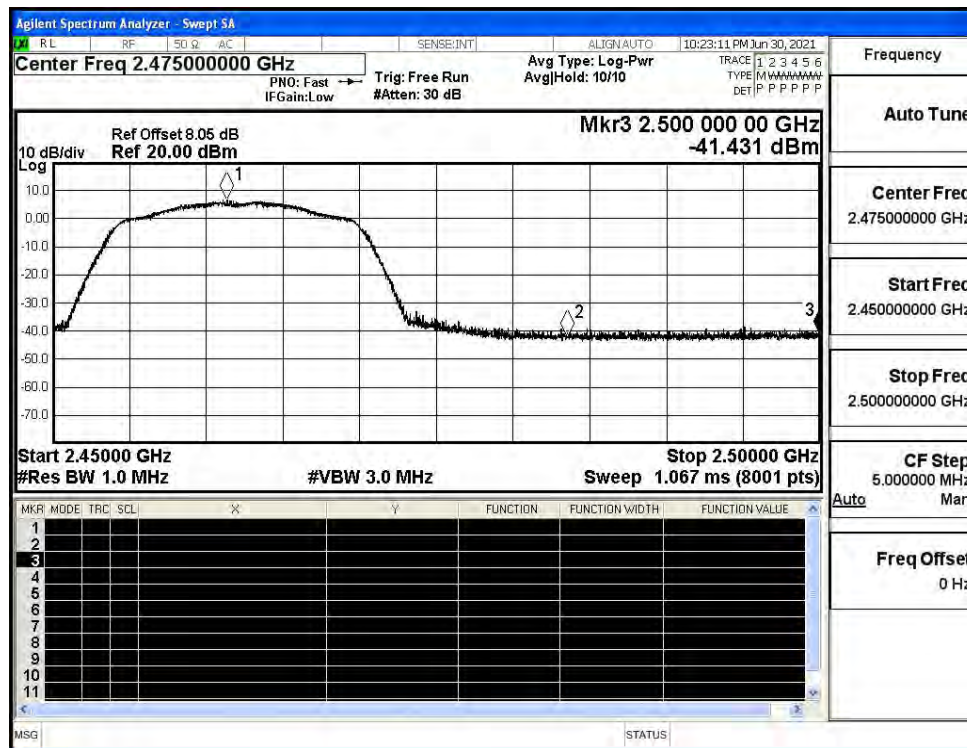


Restrict-band band-edge measurements_11G_2412_Ant1_AV

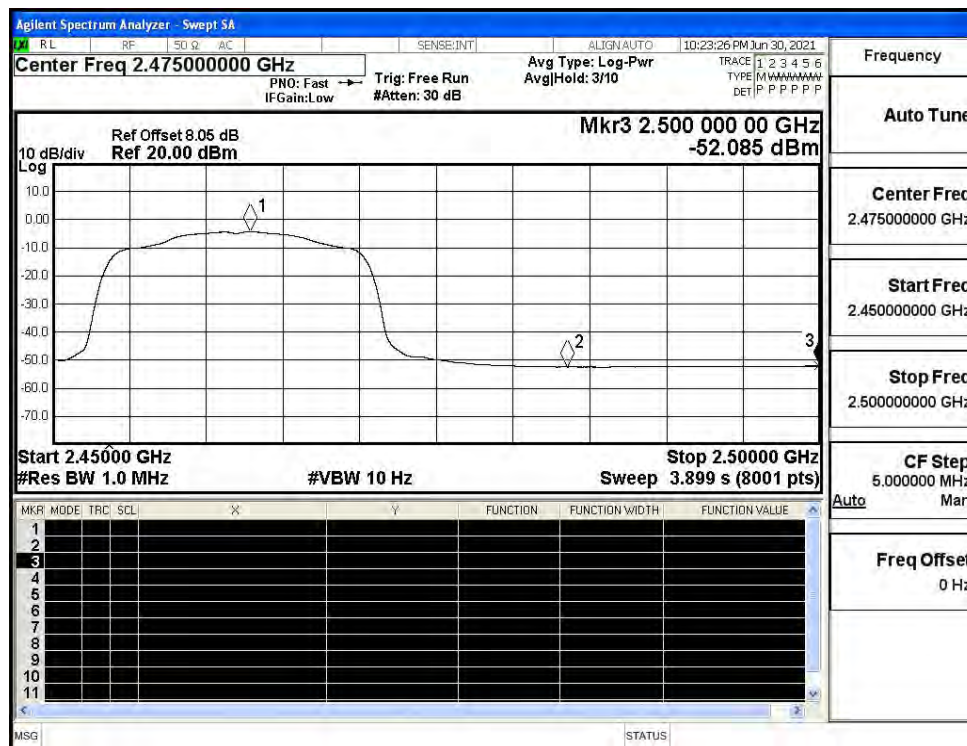




Restrict-band band-edge measurements_11G_2462_Ant1_PEAK

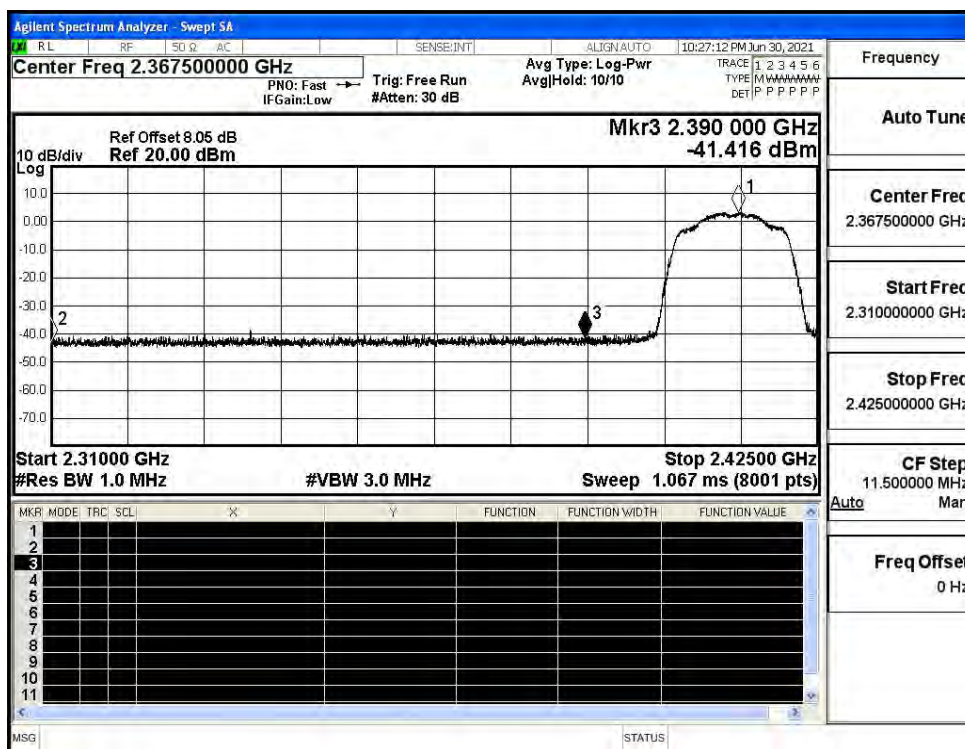


Restrict-band band-edge measurements_11G_2462_Ant1_AV

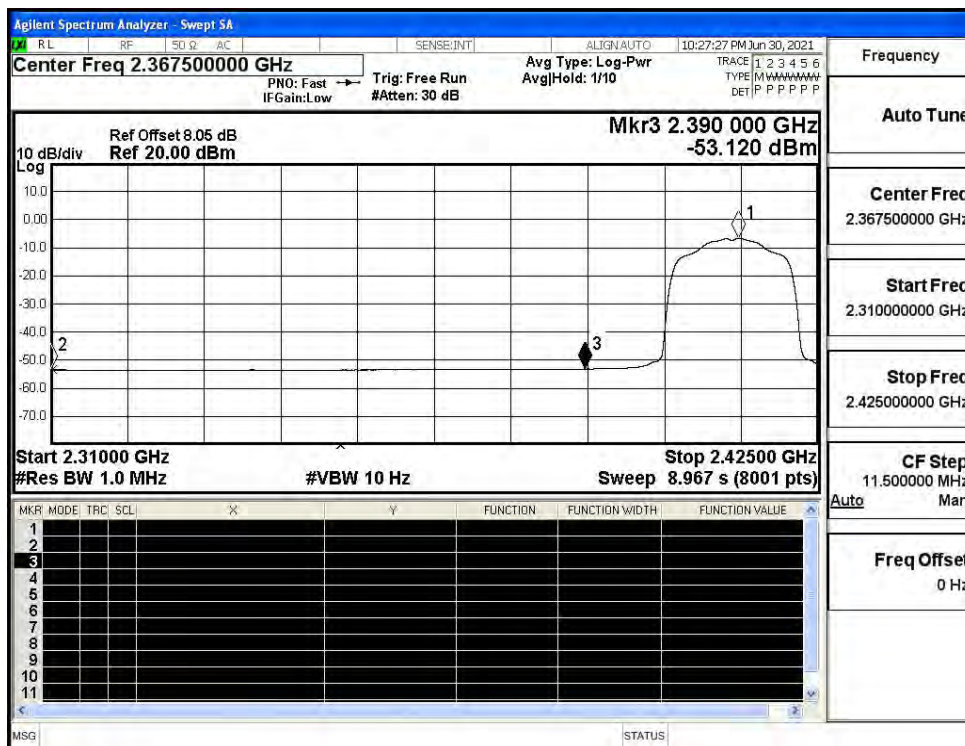




Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK

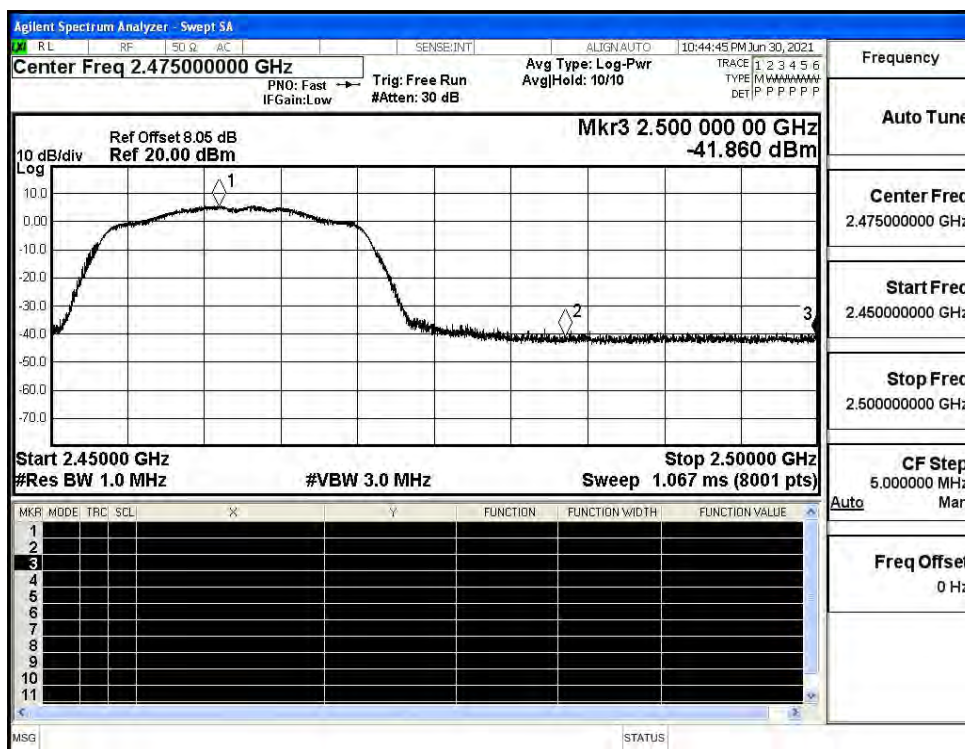


Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV

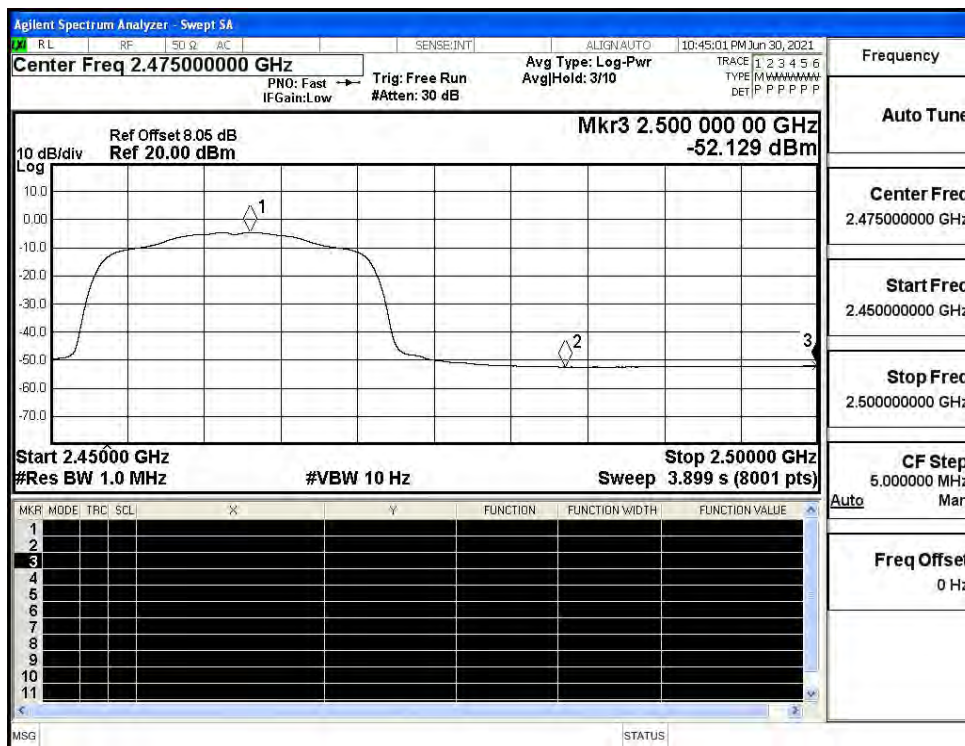




Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK

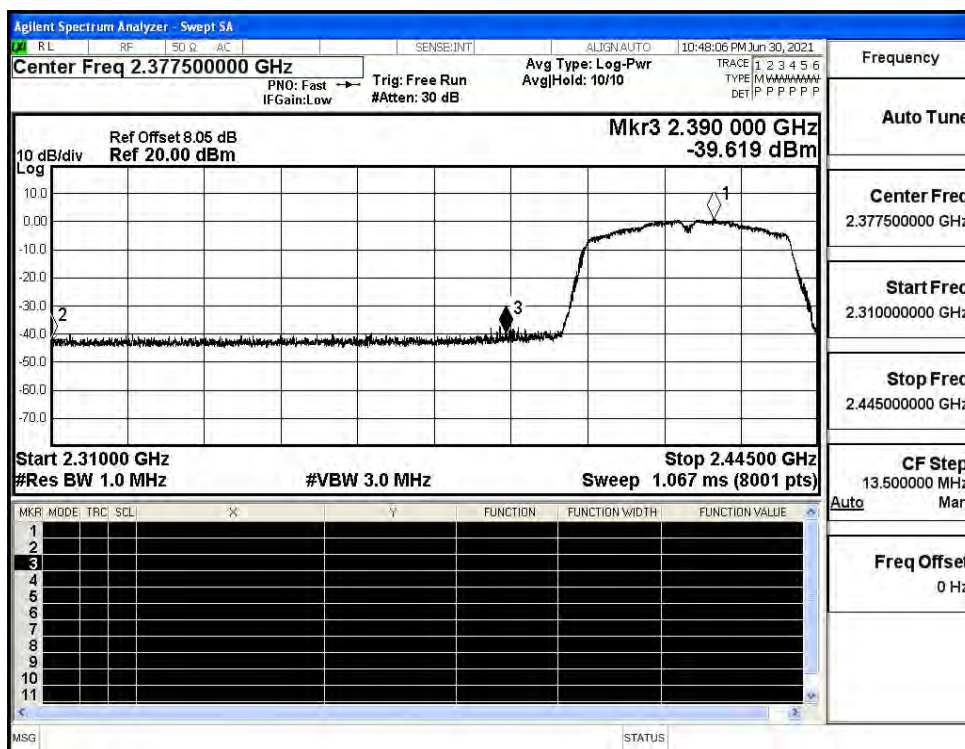


Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

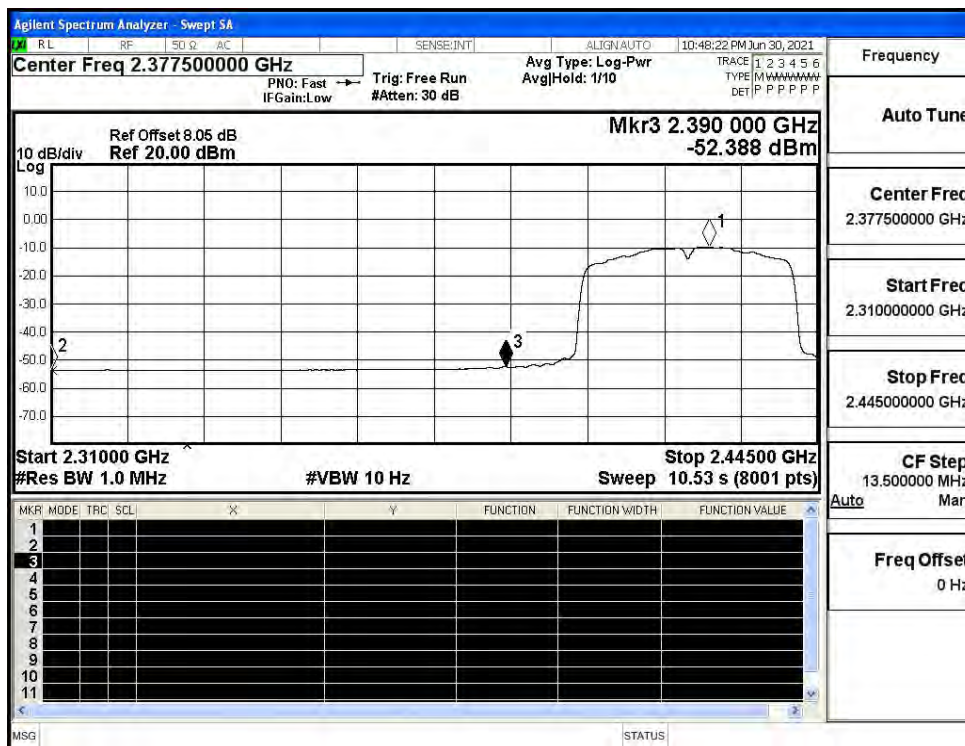




Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK

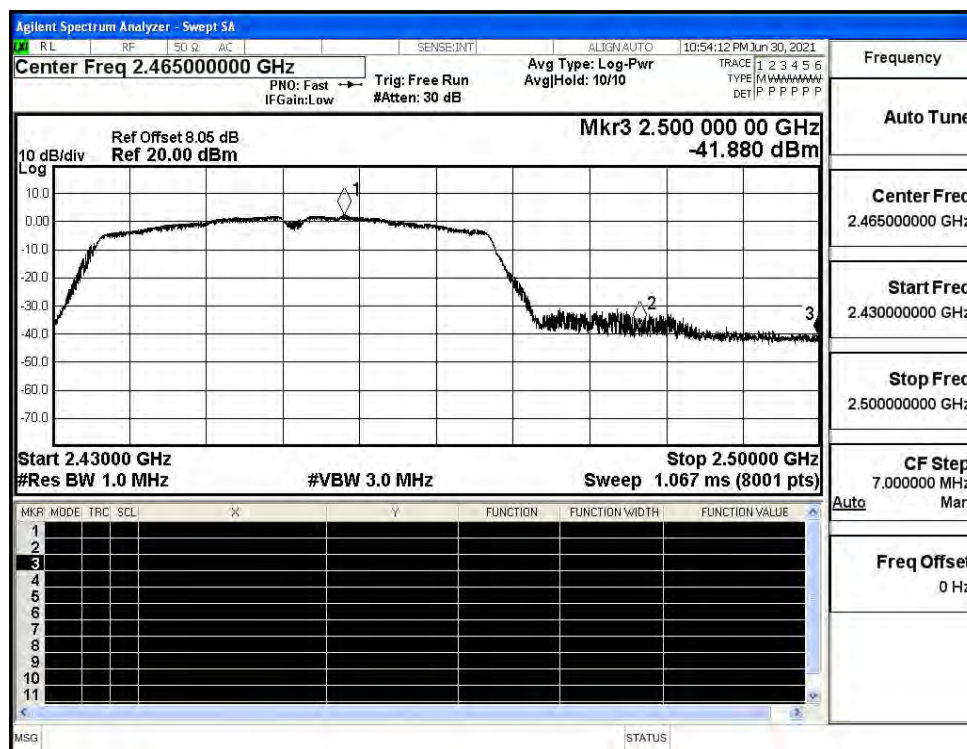


Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV





Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

