

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Trade Mark: VILINICE, KJM

Test Model: VL208

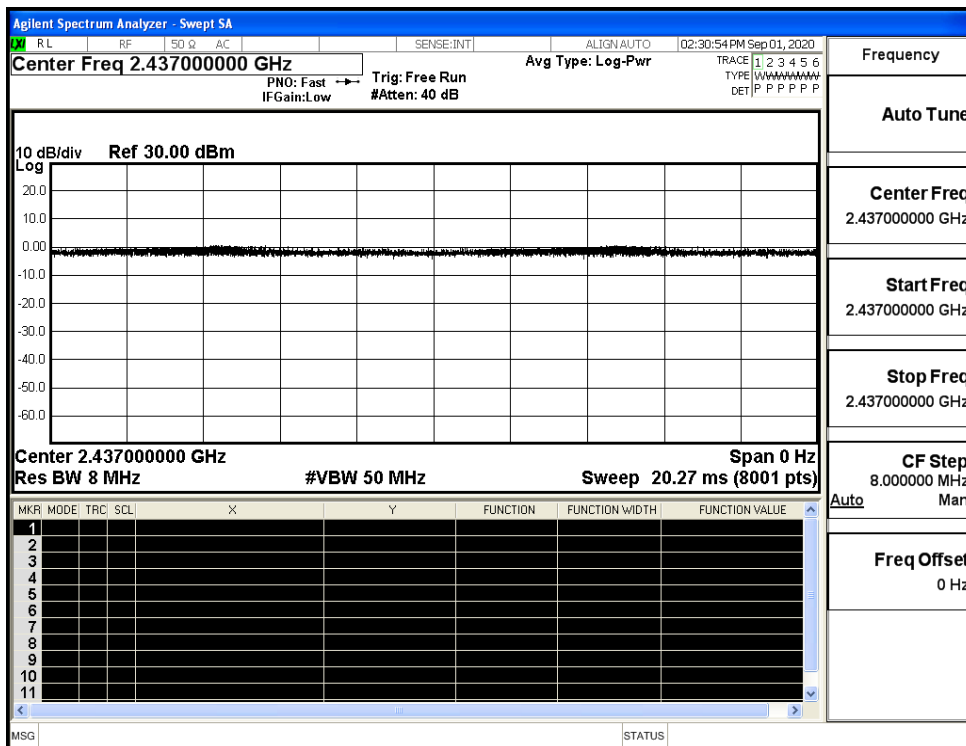
Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jam Zheng
Supervised by:	Li Huan

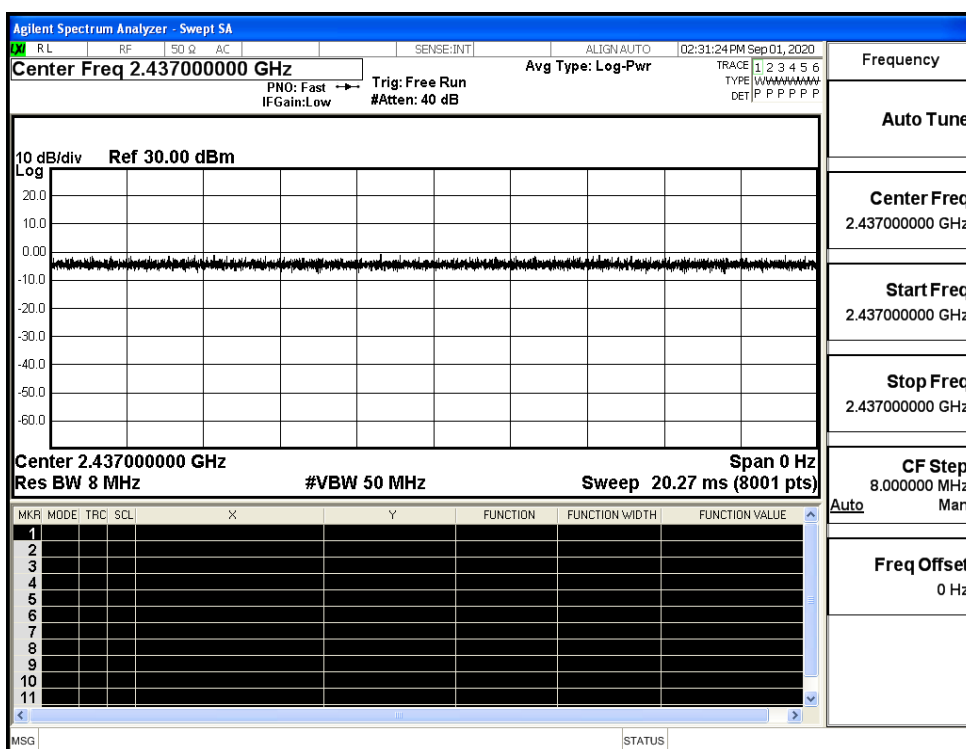
B.1 Duty Cycle

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

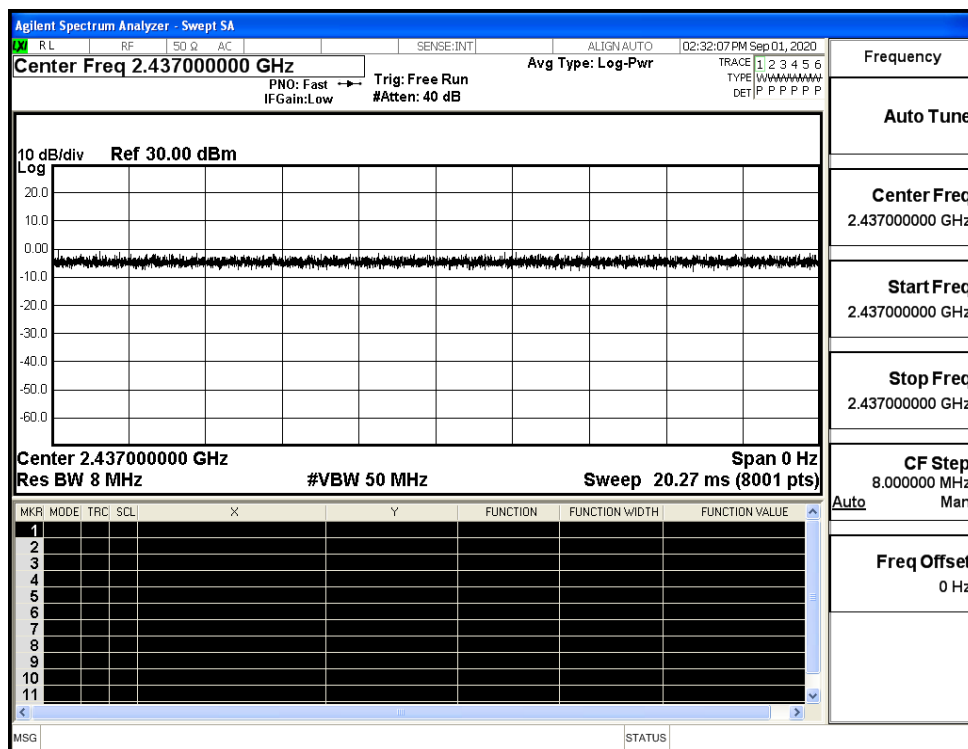
Duty Cycle_11B_2437_Ant1



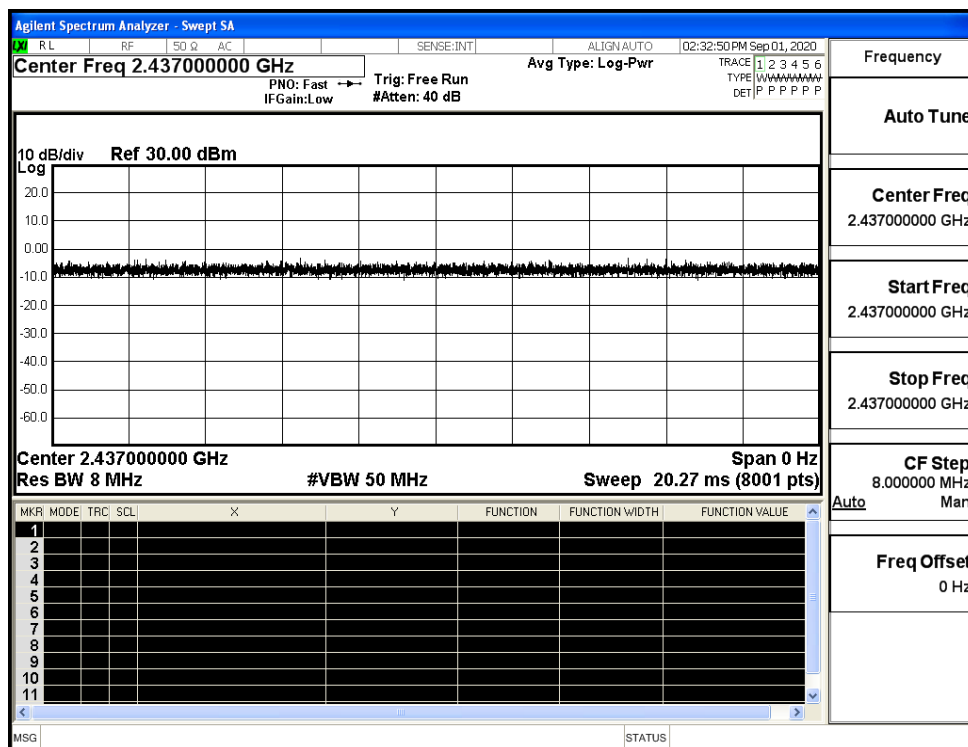
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



B.2 Maximum Conducted Output Power

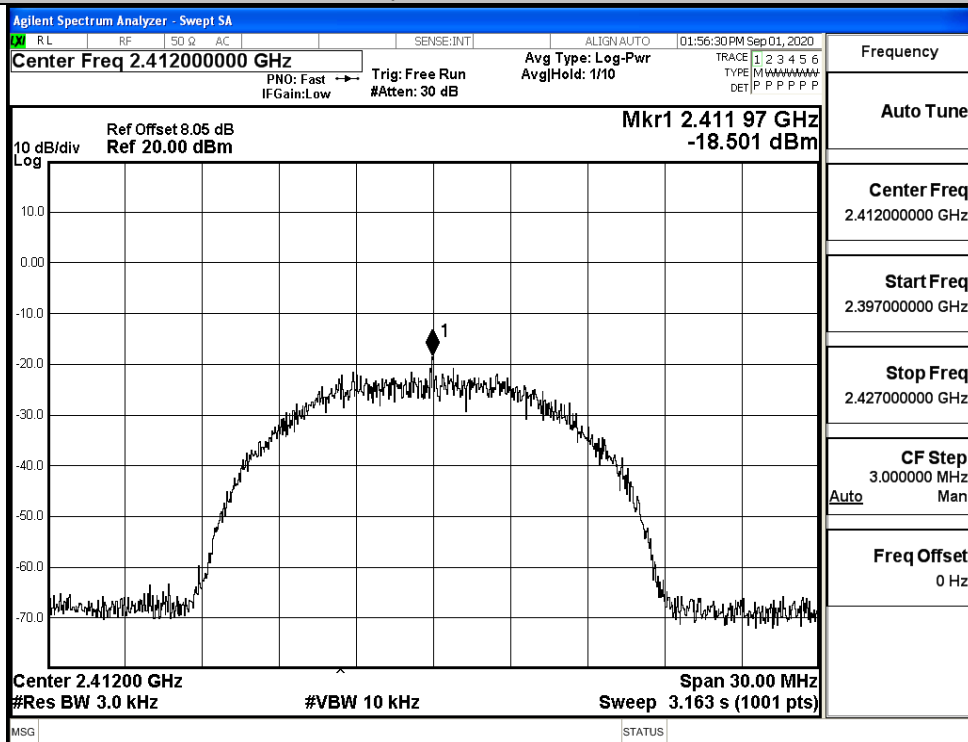
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	11.15	30	PASS
	MCH	9.98	30	PASS
	HCH	10.47	30	PASS
11G	LCH	10.57	30	PASS
	MCH	9.48	30	PASS
	HCH	9.97	30	PASS
11N20SISO	LCH	10.79	30	PASS
	MCH	9.41	30	PASS
	HCH	9.93	30	PASS
11N40SISO	LCH	10.96	30	PASS
	MCH	9.98	30	PASS
	HCH	10.16	30	PASS

B.3 Maximum Power Spectral Density

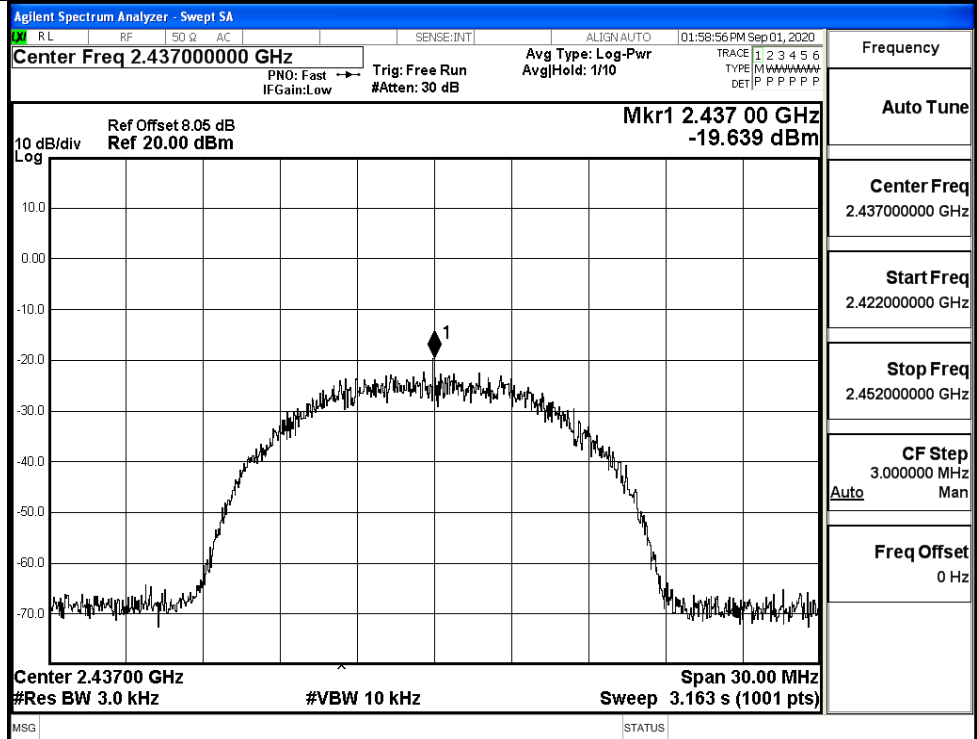
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-18.501	8	PASS
	MCH	-19.639	8	PASS
	HCH	-20.080	8	PASS
11G	LCH	-22.709	8	PASS
	MCH	-24.186	8	PASS
	HCH	-24.601	8	PASS
11N20SISO	LCH	-23.256	8	PASS
	MCH	-24.626	8	PASS
	HCH	-24.449	8	PASS
11N40SISO	LCH	-23.360	8	PASS
	MCH	-23.662	8	PASS
	HCH	-25.736	8	PASS

Test Graphs

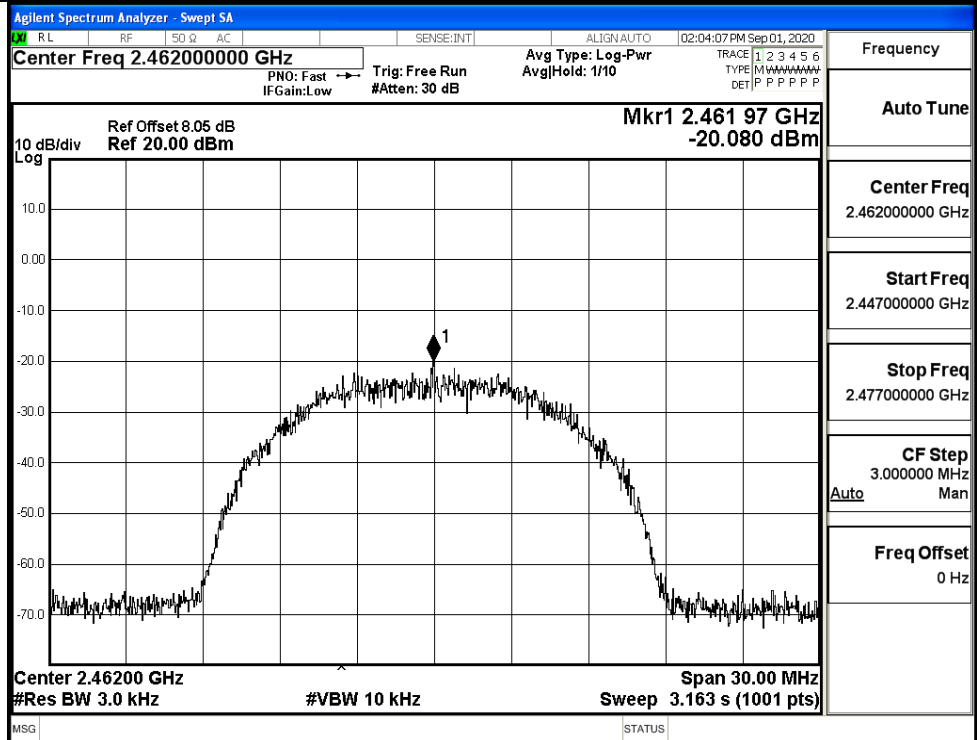
11B/LCH



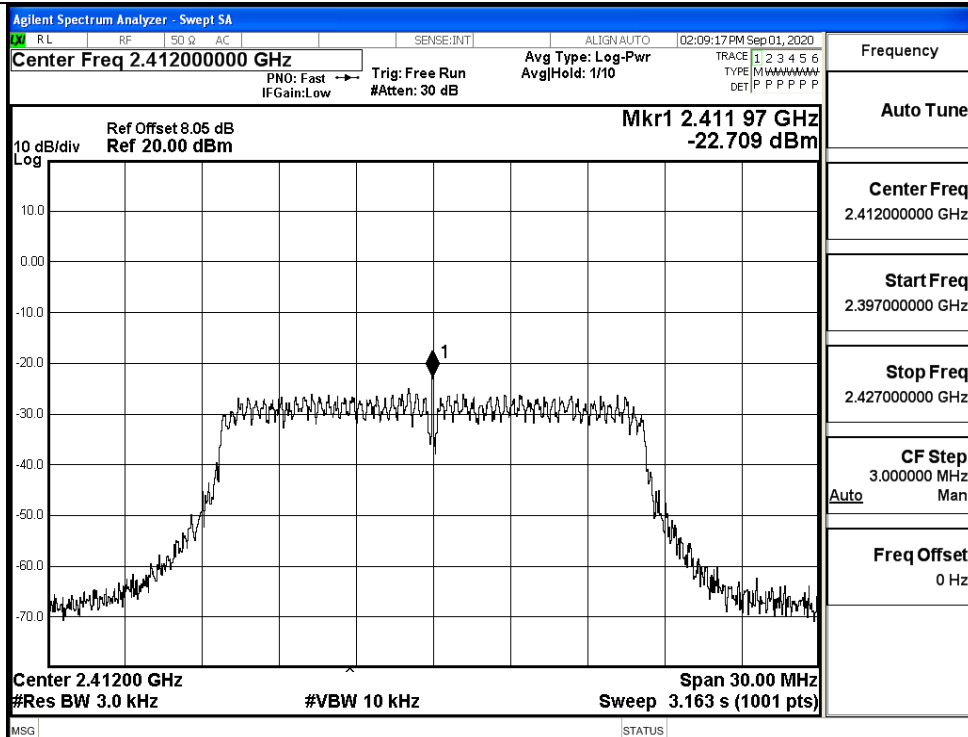
11B/MCH



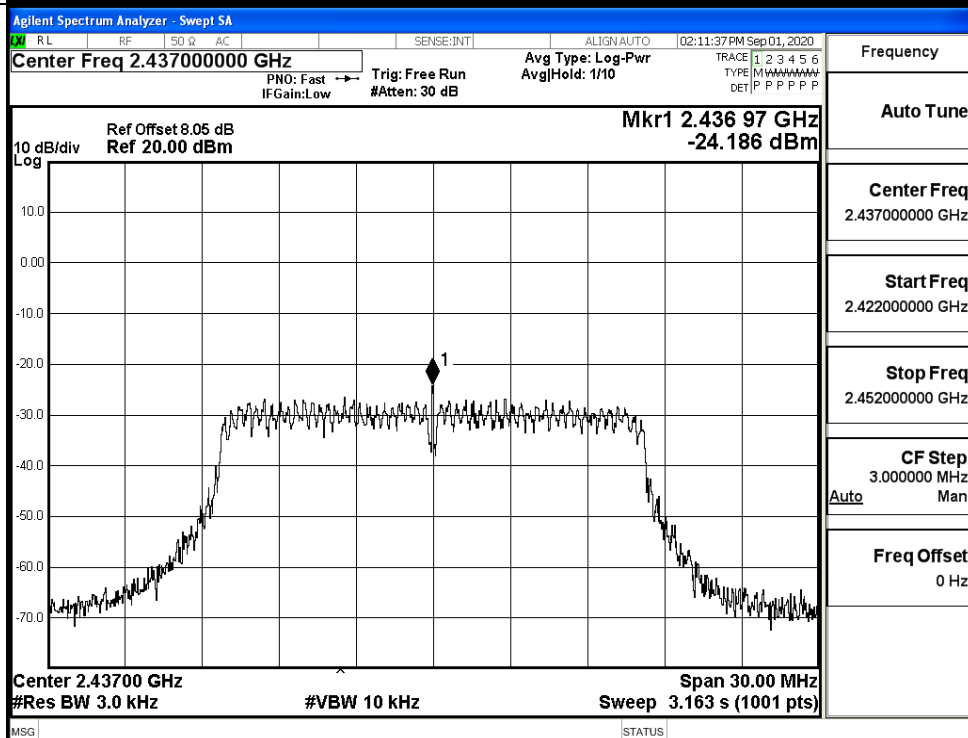
11B/HCH



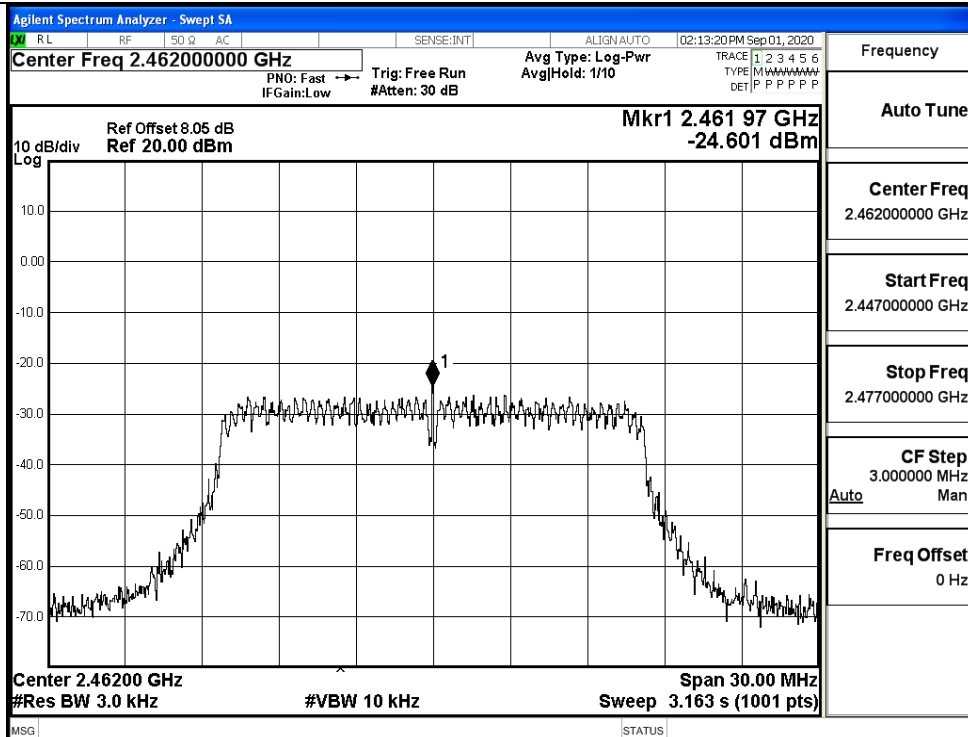
11G/LCH



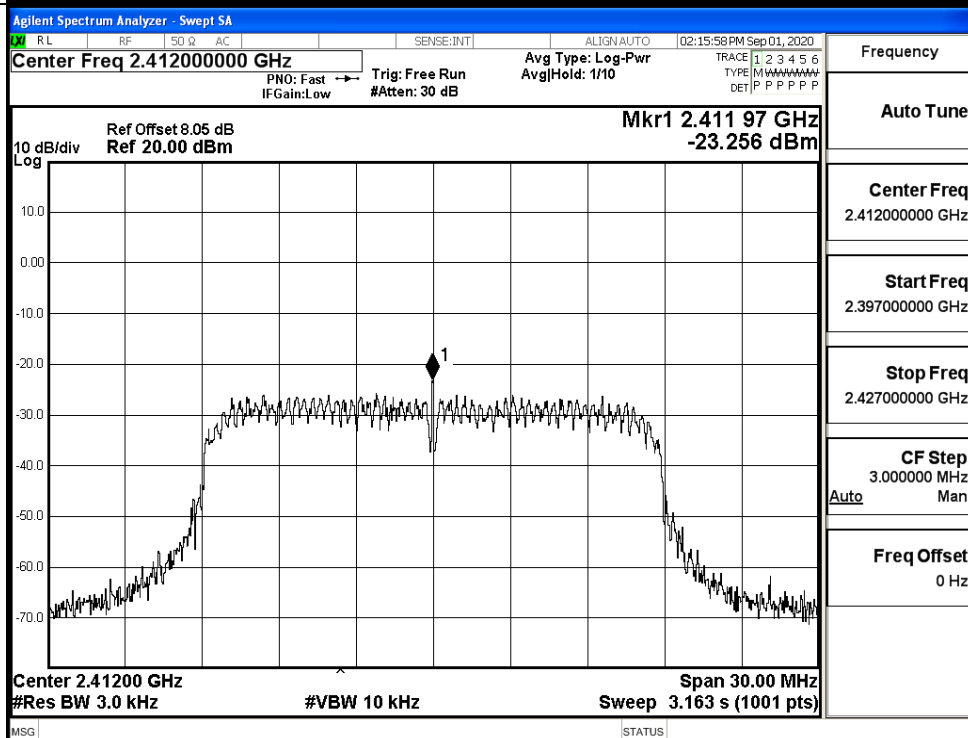
11G/MCH



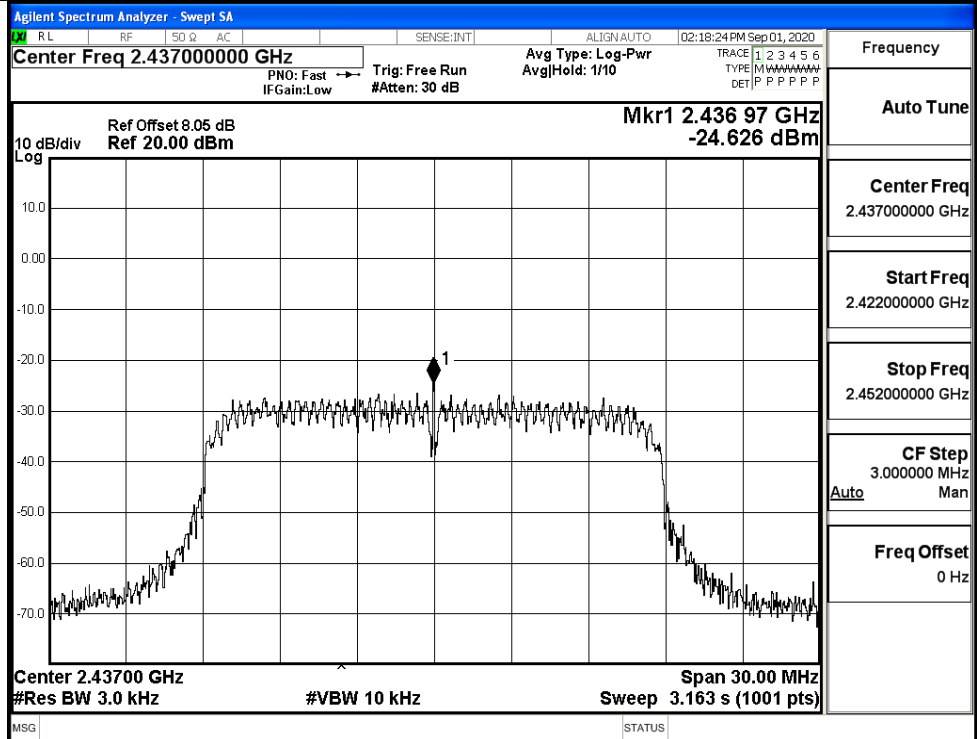
11G/HCH



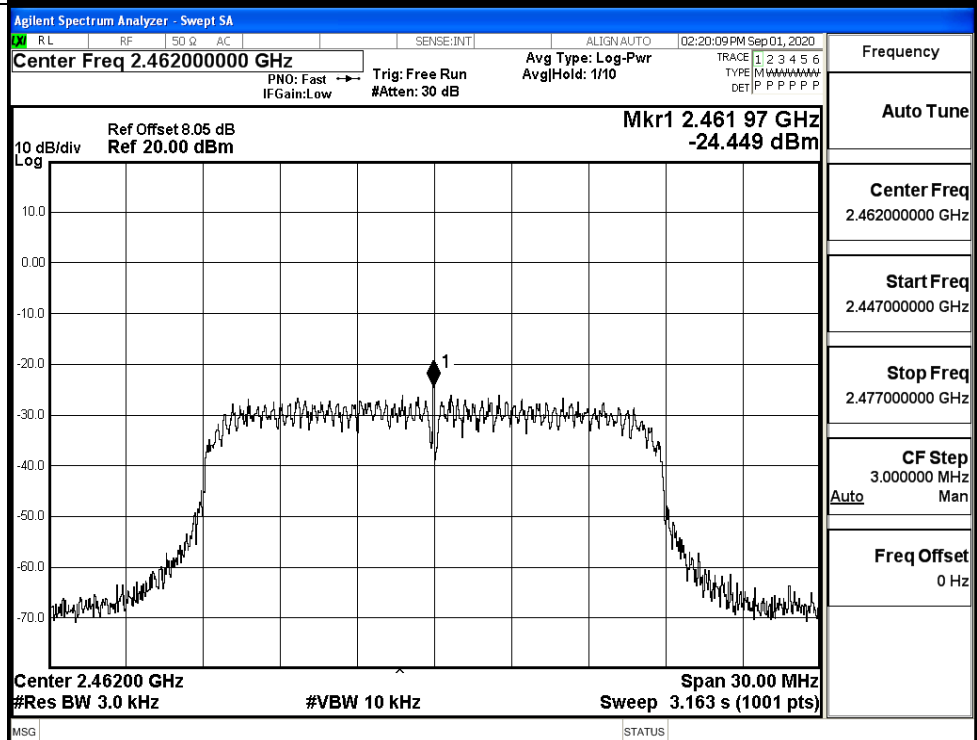
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.42200000 GHz

Ref Offset 8.05 dB
Ref 20.00 dBm

Mkr1 2.422 00 GHz
-23.360 dBm

10 dB/div
Log

Center 2.42200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 6.326 s (1001 pts)

Span 60.00 MHz

Frequency

Auto Tune

Center Freq
2.422000000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.452000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

11N40SISO/LCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.43700000 GHz

Ref Offset 8.05 dB
Ref 20.00 dBm

Mkr1 2.437 00 GHz
-23.662 dBm

10 dB/div
Log

Center 2.43700 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 6.326 s (1001 pts)

Span 60.00 MHz

Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.407000000 GHz

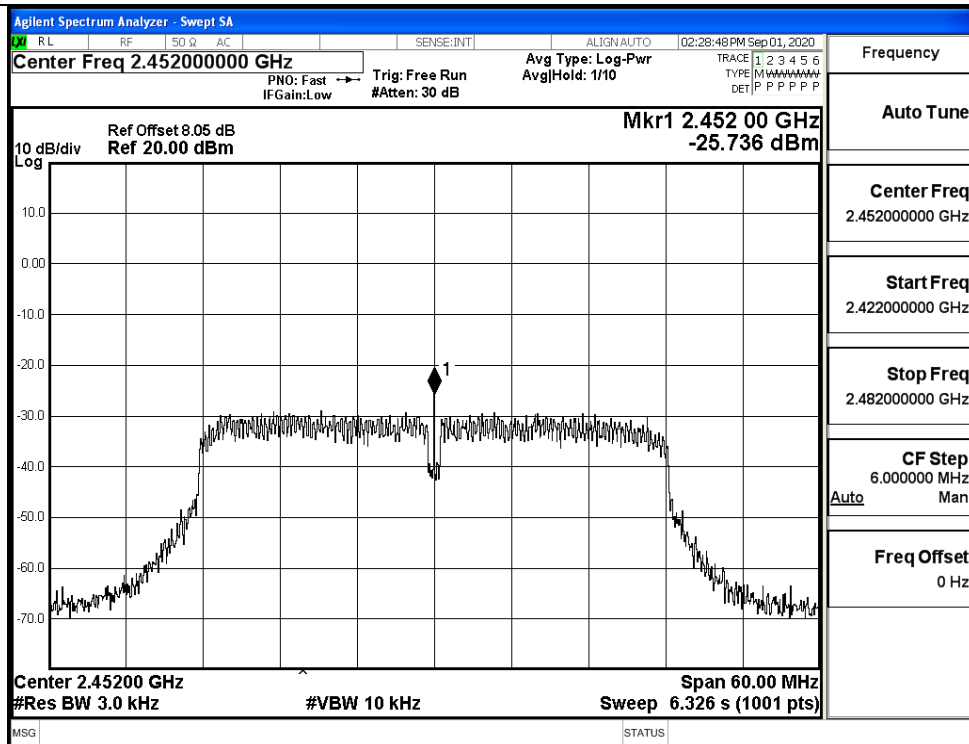
Stop Freq
2.467000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

11N40SISO/MCH

11N40SISO/HCH

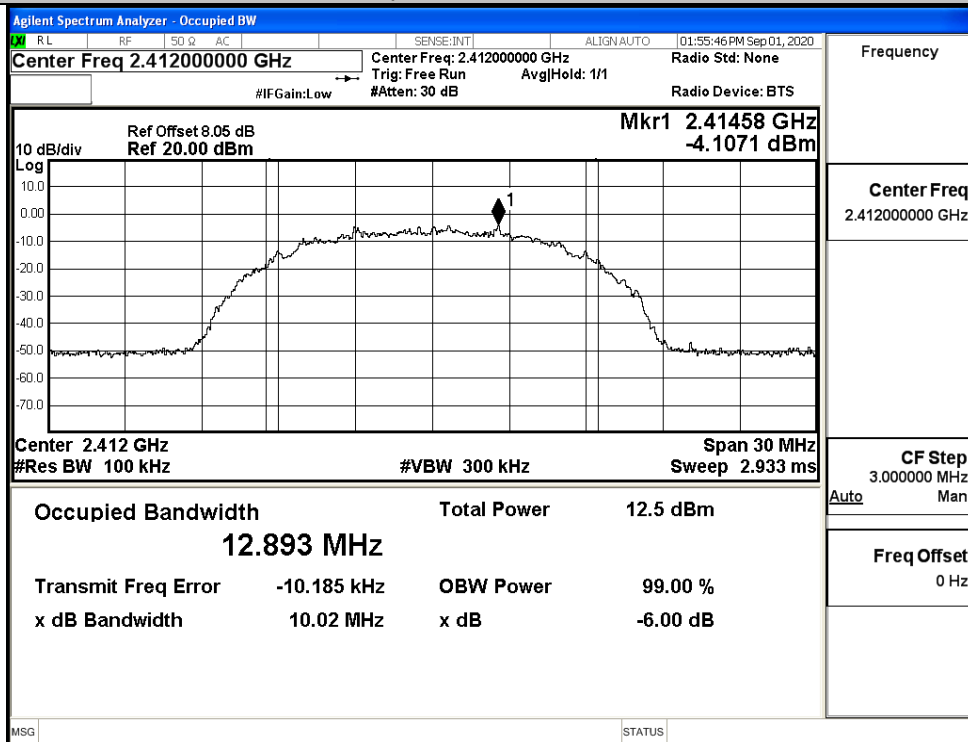


B.4 6dB Bandwidth

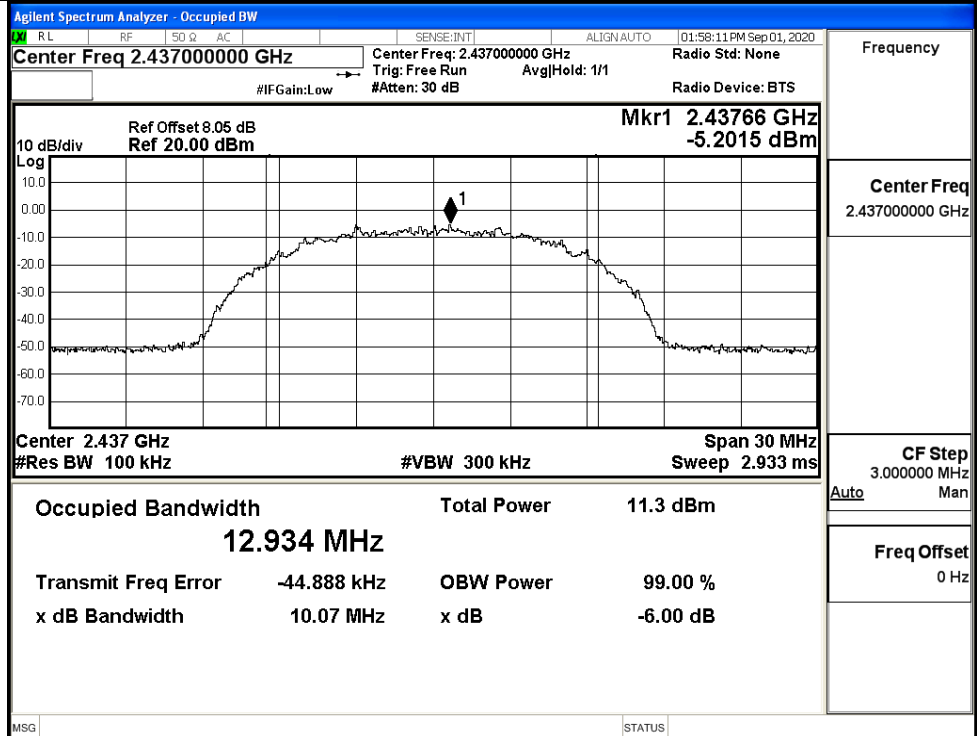
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.02	≥ 0.5	PASS
	MCH	10.07	≥ 0.5	PASS
	HCH	10.08	≥ 0.5	PASS
11G	LCH	16.37	≥ 0.5	PASS
	MCH	16.37	≥ 0.5	PASS
	HCH	16.37	≥ 0.5	PASS
11N20SISO	LCH	16.88	≥ 0.5	PASS
	MCH	16.84	≥ 0.5	PASS
	HCH	16.80	≥ 0.5	PASS
11N40SISO	LCH	36.11	≥ 0.5	PASS
	MCH	36.09	≥ 0.5	PASS
	HCH	36.10	≥ 0.5	PASS

Test Graphs

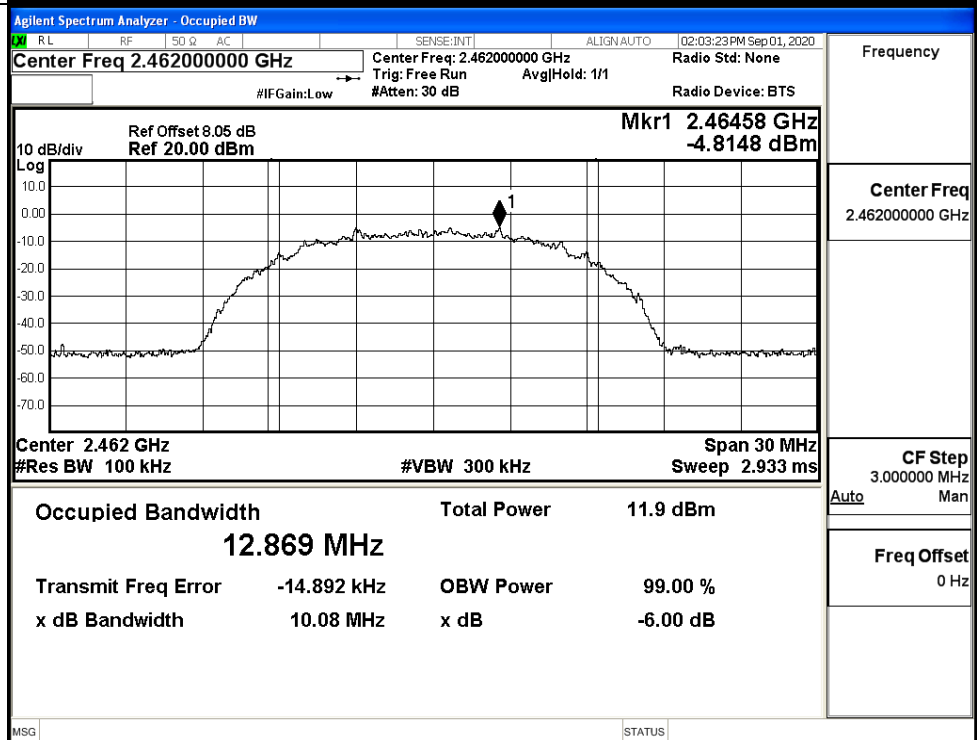
11B/LCH



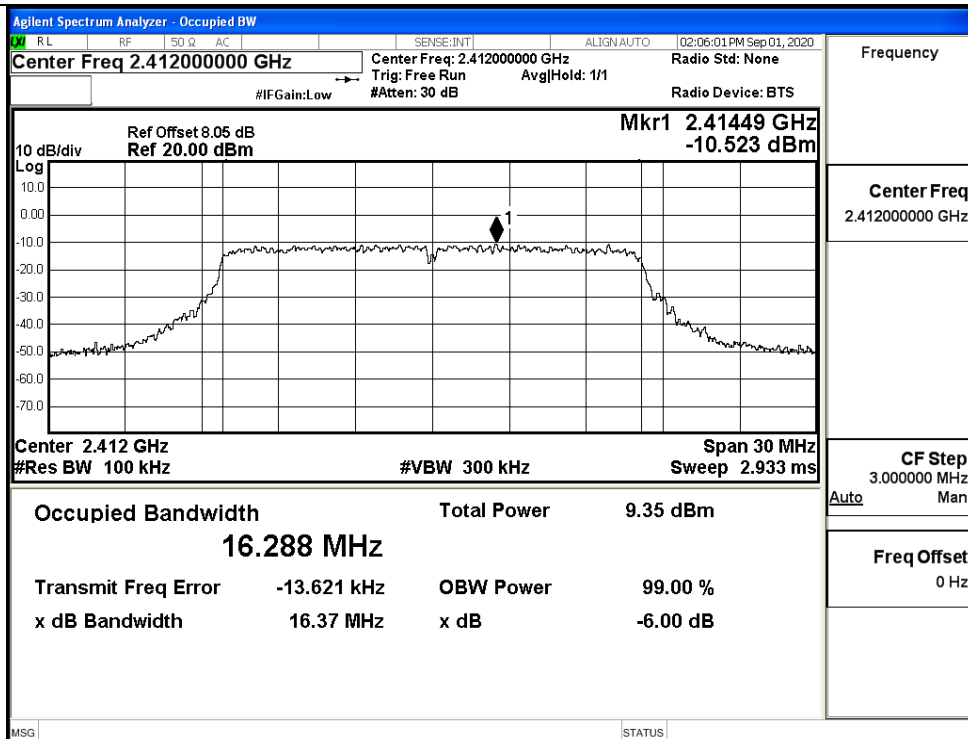
11B/MCH



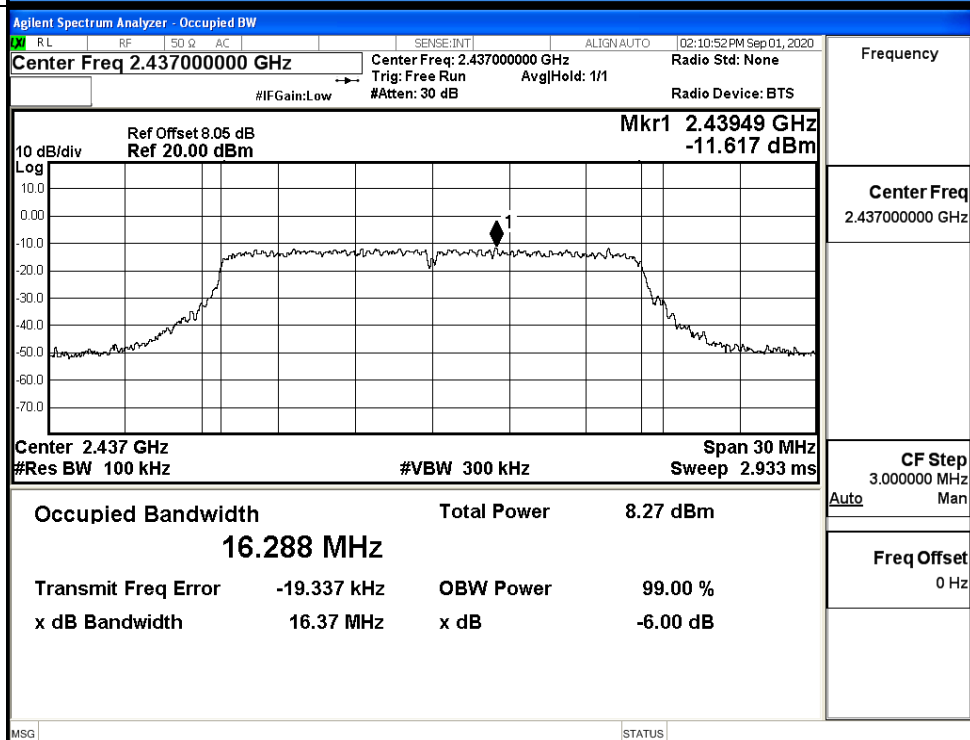
11B/HCH



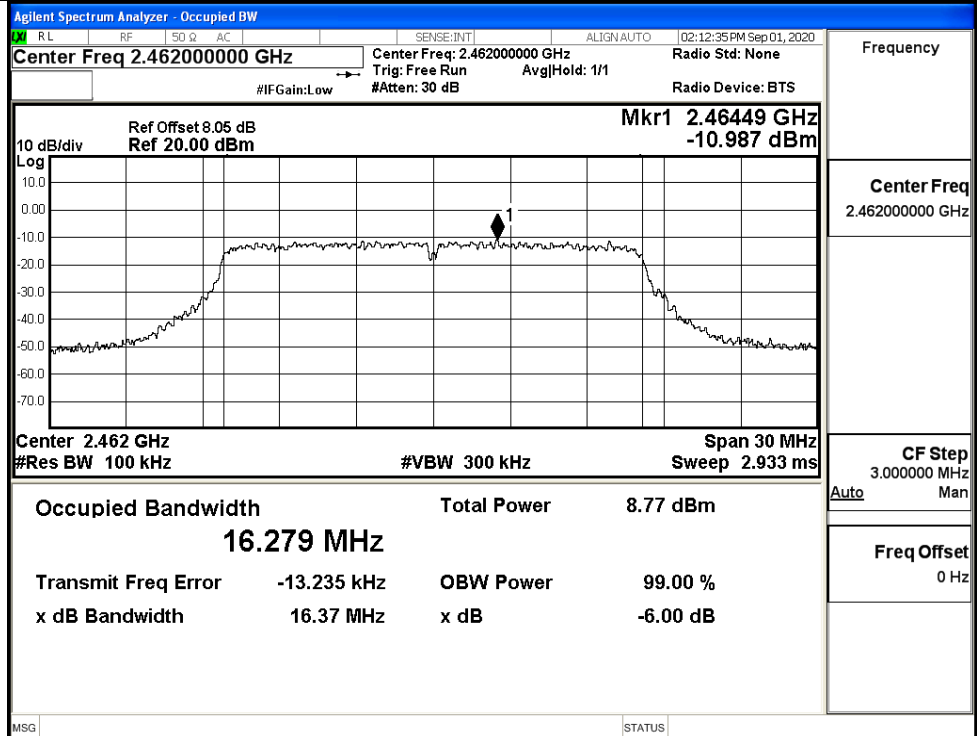
11G/LCH



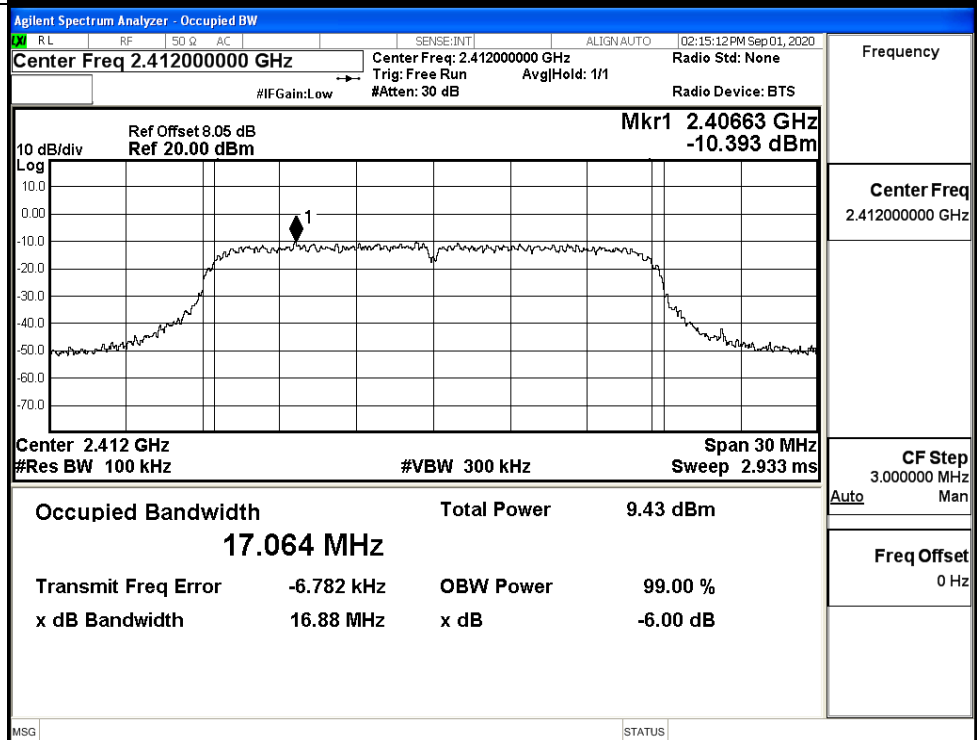
11G/MCH



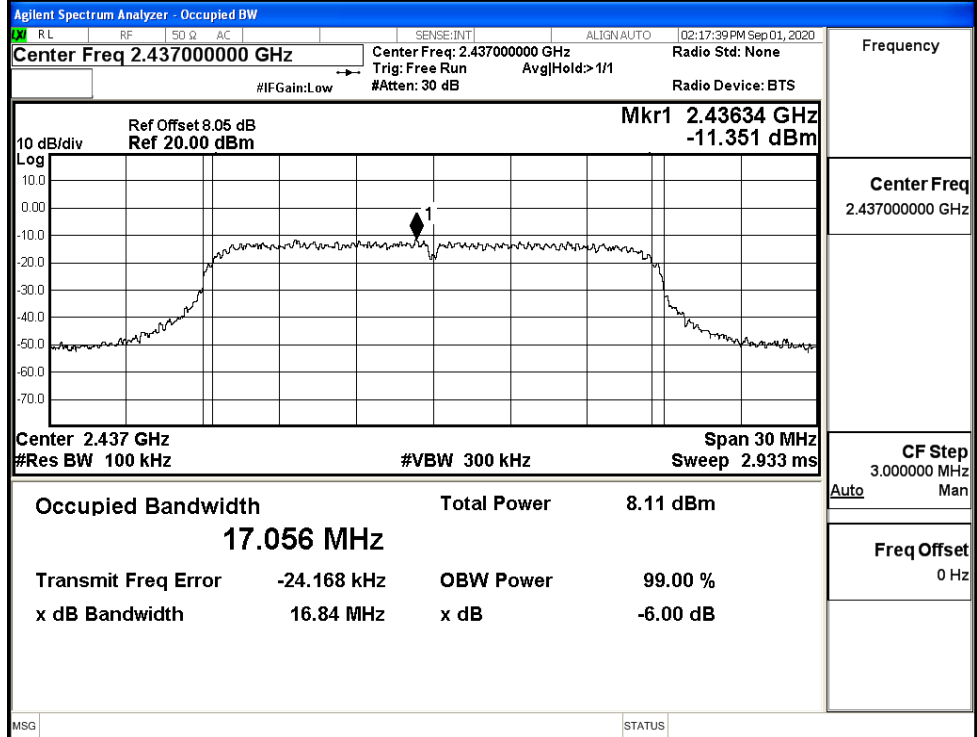
11G/HCH



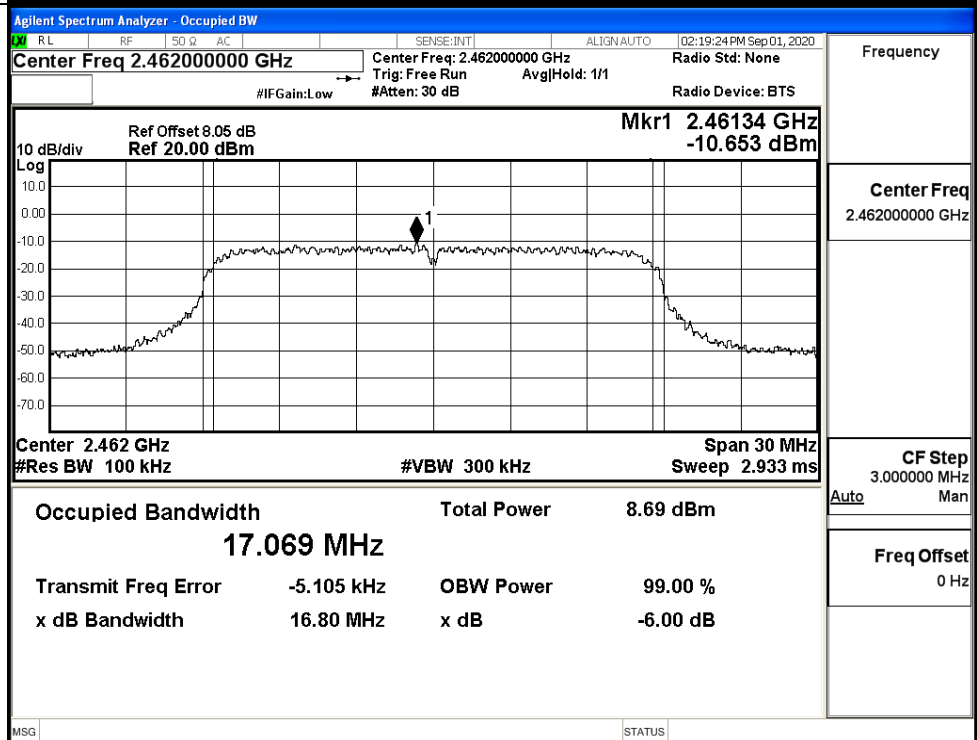
11N20SISO/LCH



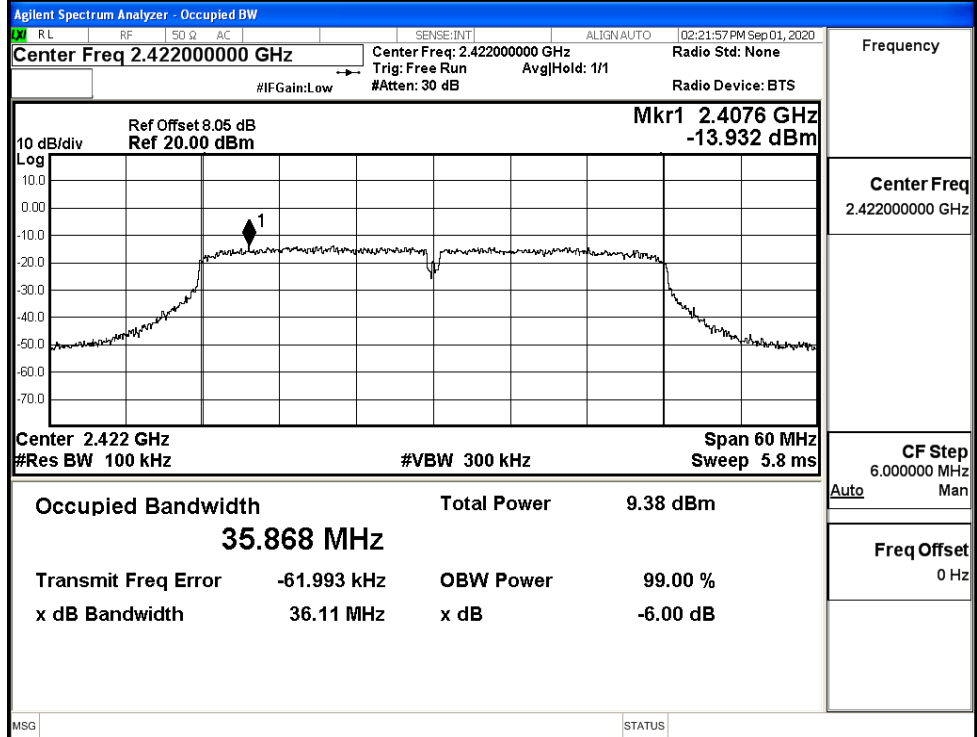
11N20SISO/MCH



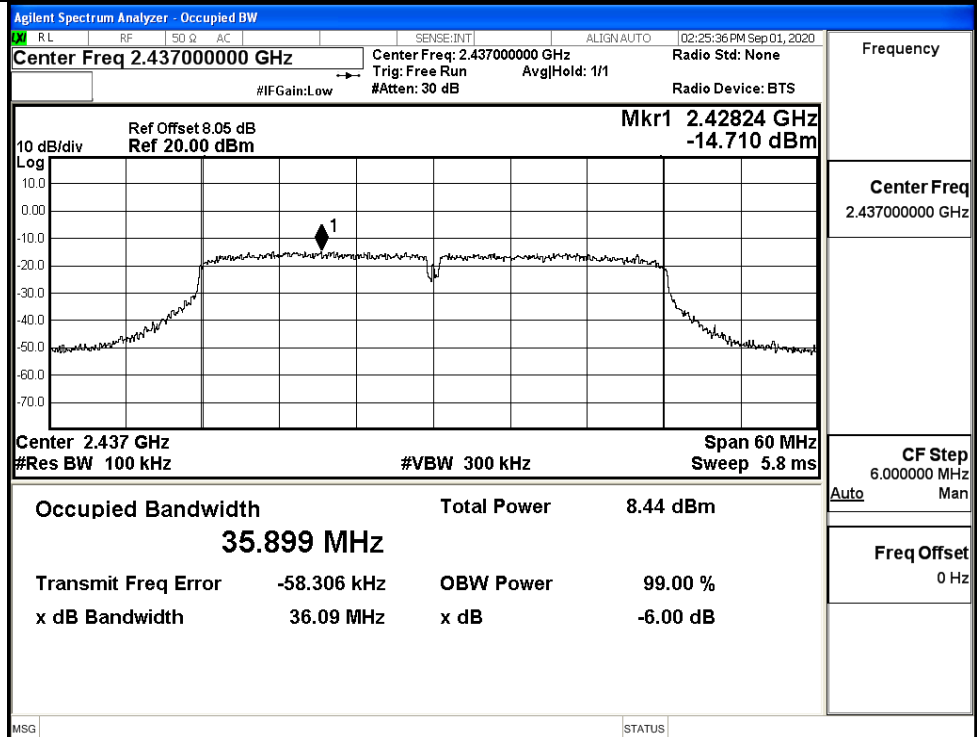
11N20SISO/HCH



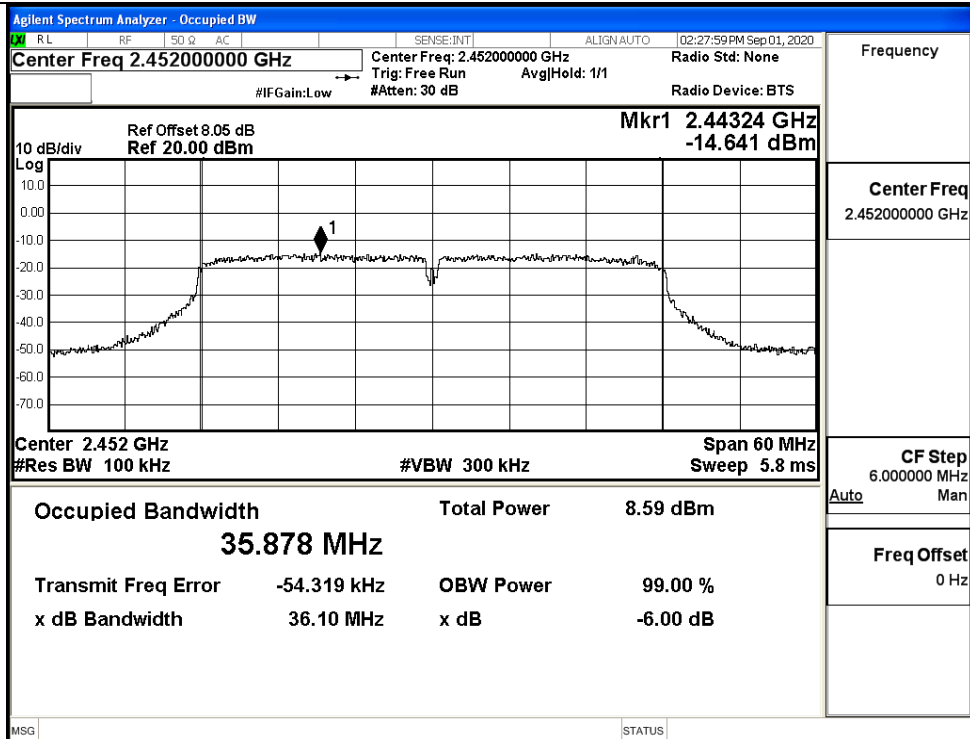
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

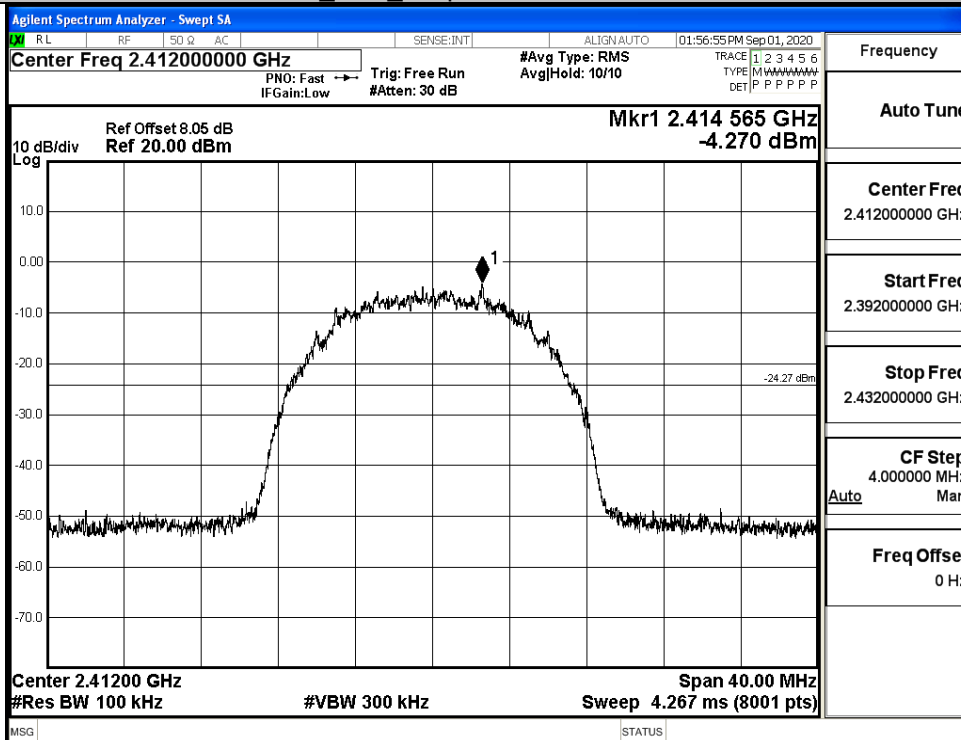


B.5 RF Conducted Spurious Emissions

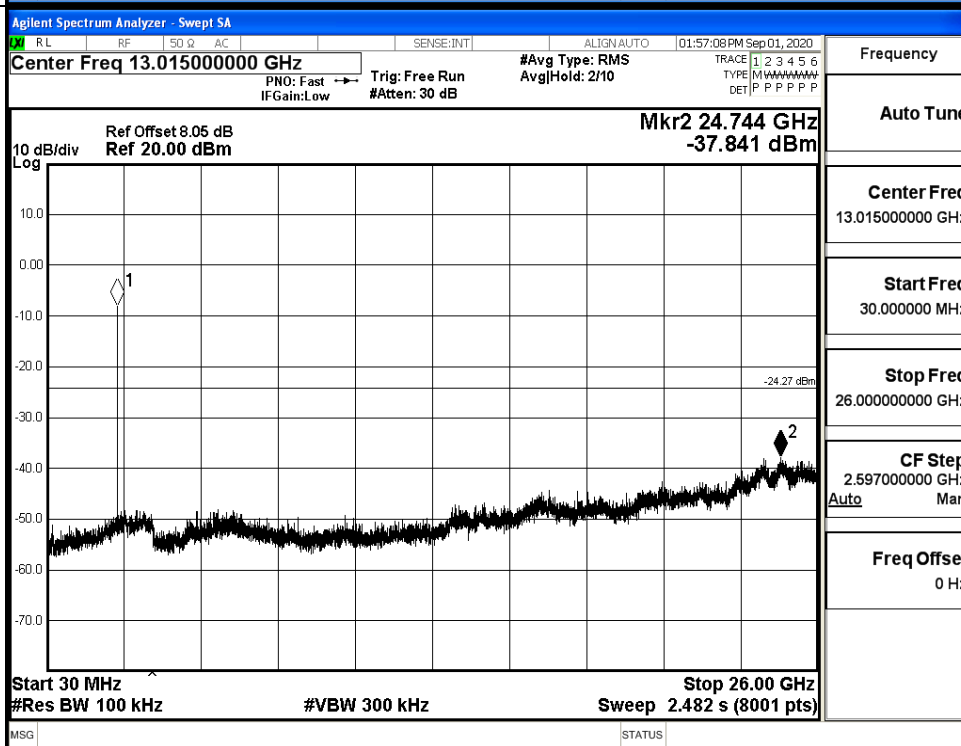
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.27	-37.841	-24.270	PASS
	MCH	-5.382	-38.031	-25.382	PASS
	HCH	-4.836	-37.643	-24.836	PASS
11G	LCH	-10.369	-36.437	-30.369	PASS
	MCH	-11.646	-37.945	-31.646	PASS
	HCH	-11.075	-38.036	-31.075	PASS
11N20 SISO	LCH	-10.539	-38.348	-30.539	PASS
	MCH	-11.855	-38.631	-31.855	PASS
	HCH	-11.762	-37.828	-31.762	PASS
11N40 SISO	LCH	-13.834	-37.961	-33.834	PASS
	MCH	-14.854	-38.096	-34.854	PASS
	HCH	-15.038	-38.218	-35.038	PASS

11B LCH Graphs

Pref/11B/LCH

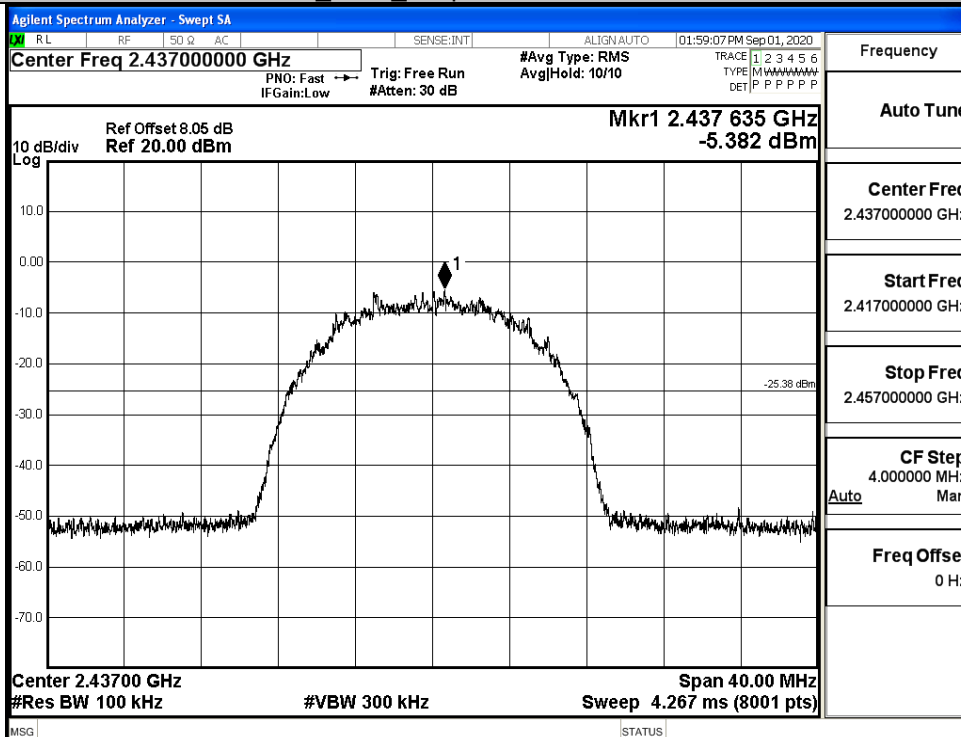


Puw/11B/LCH

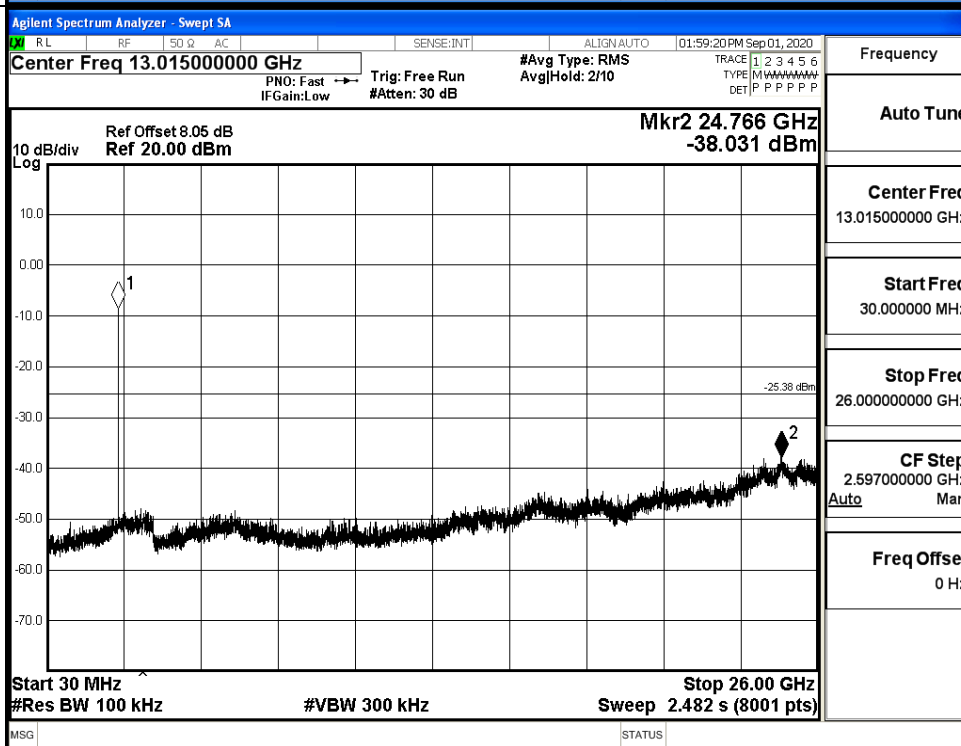


11B MCH Graphs

Pref/11B/MCH

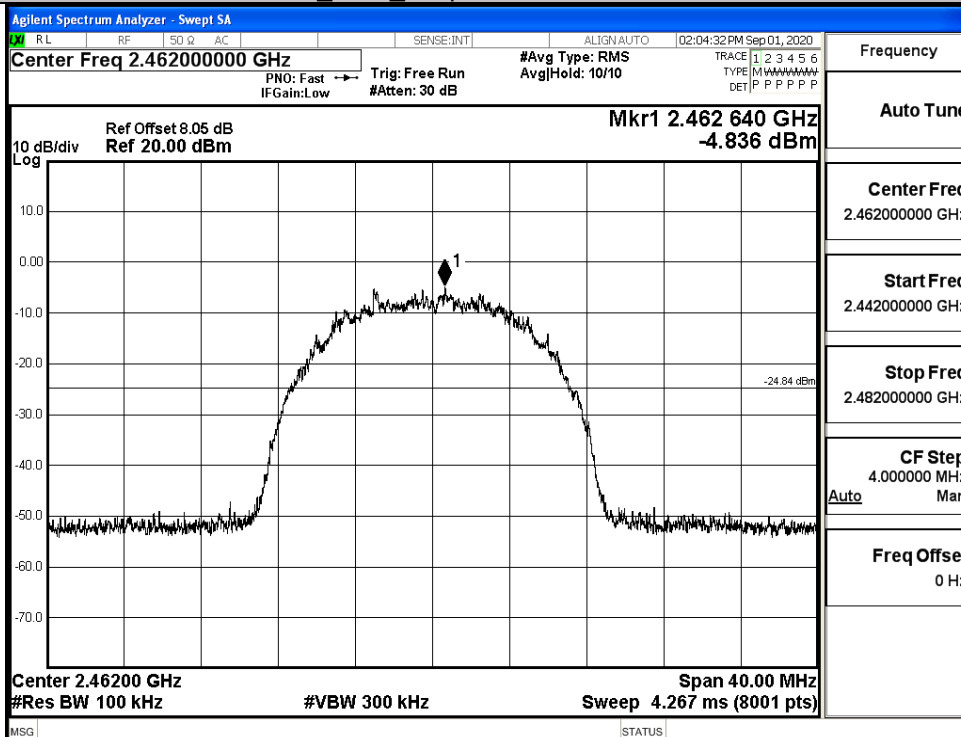


Puw/11B/MCH

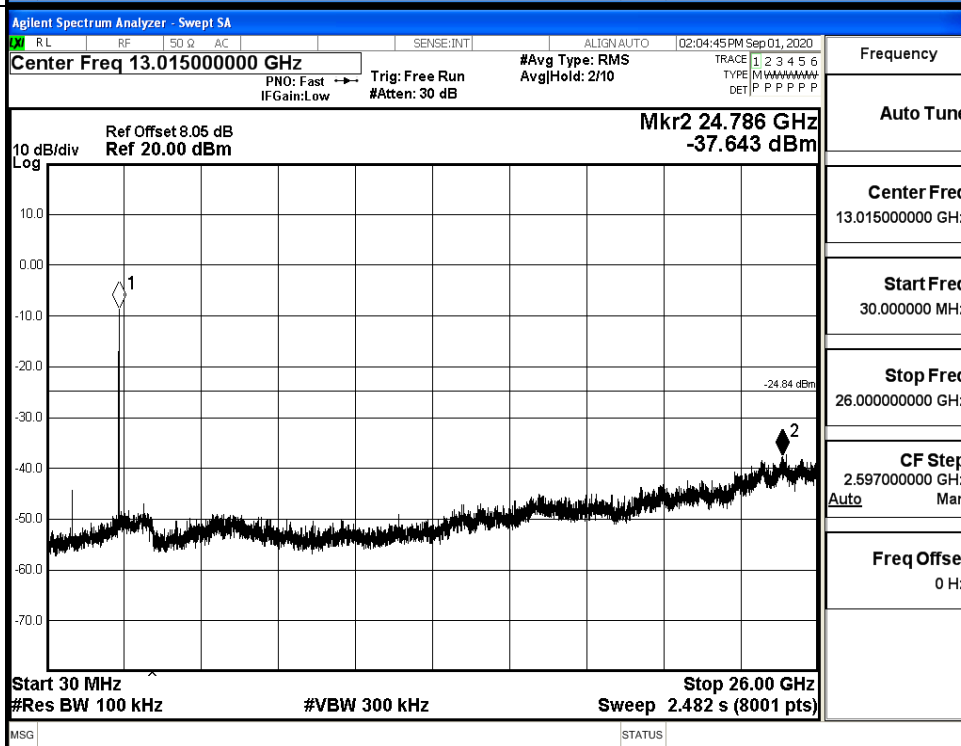


11B HCH Graphs

Pref/11B/HCH

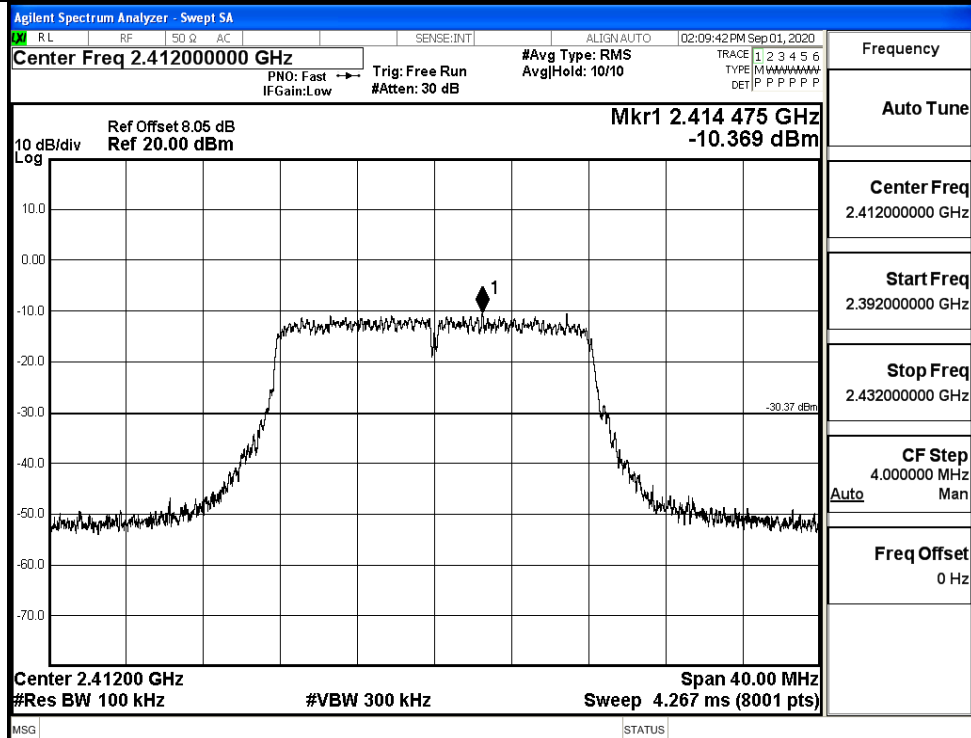


Puw/11B/HCH

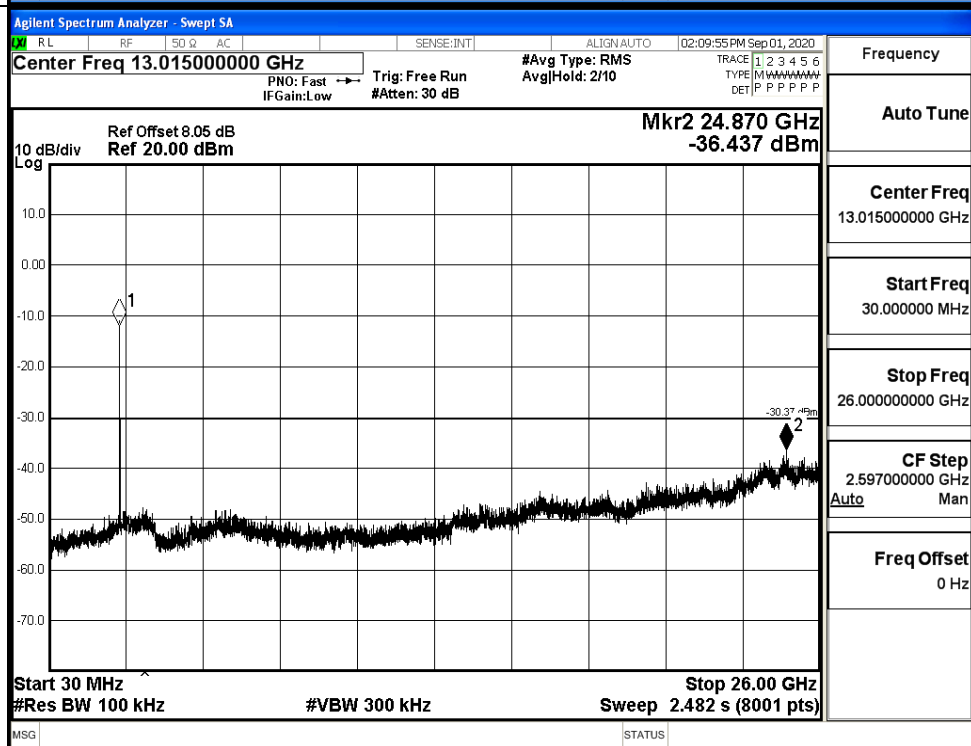


11G_LCH_Graphs

Pref/11G/LCH

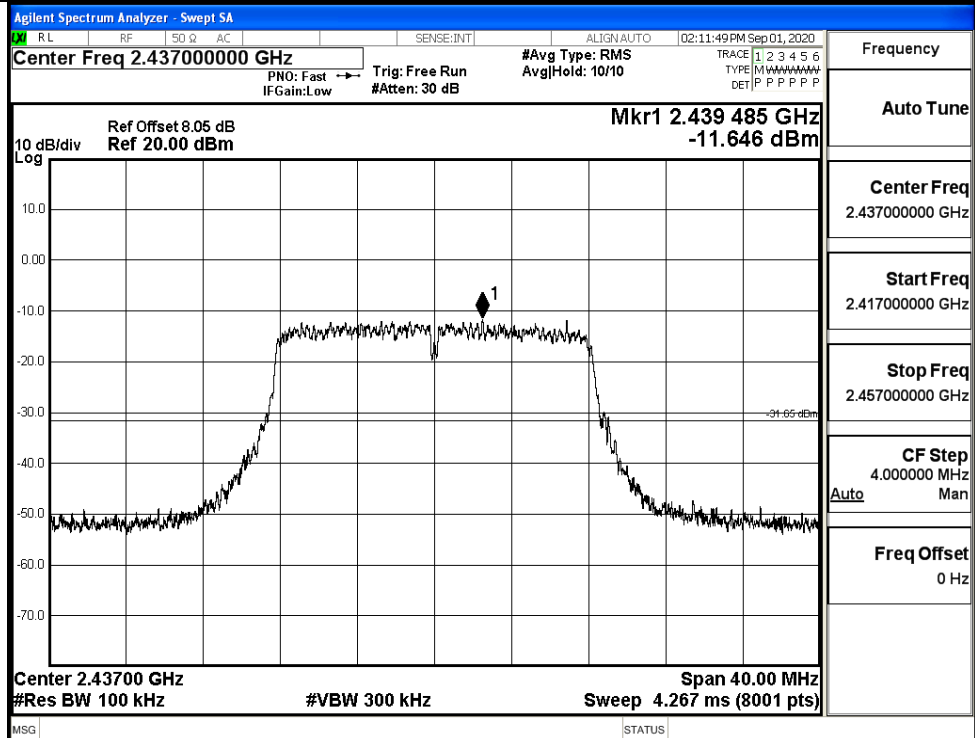


Puw/11G/LCH

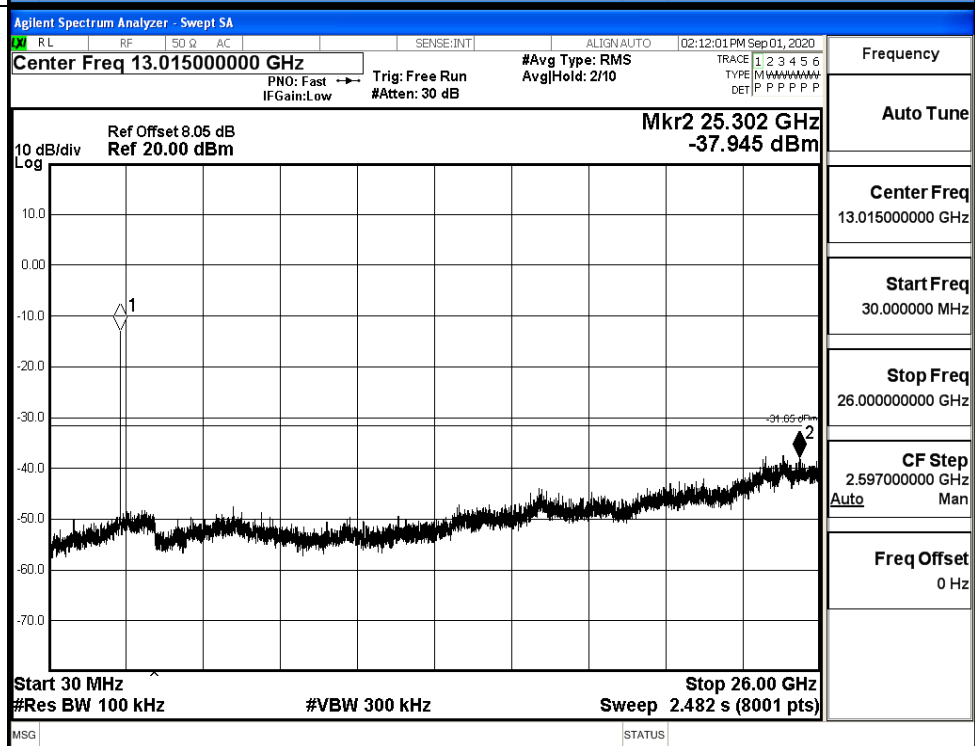


11G MCH Graphs

Pref/11G/MCH

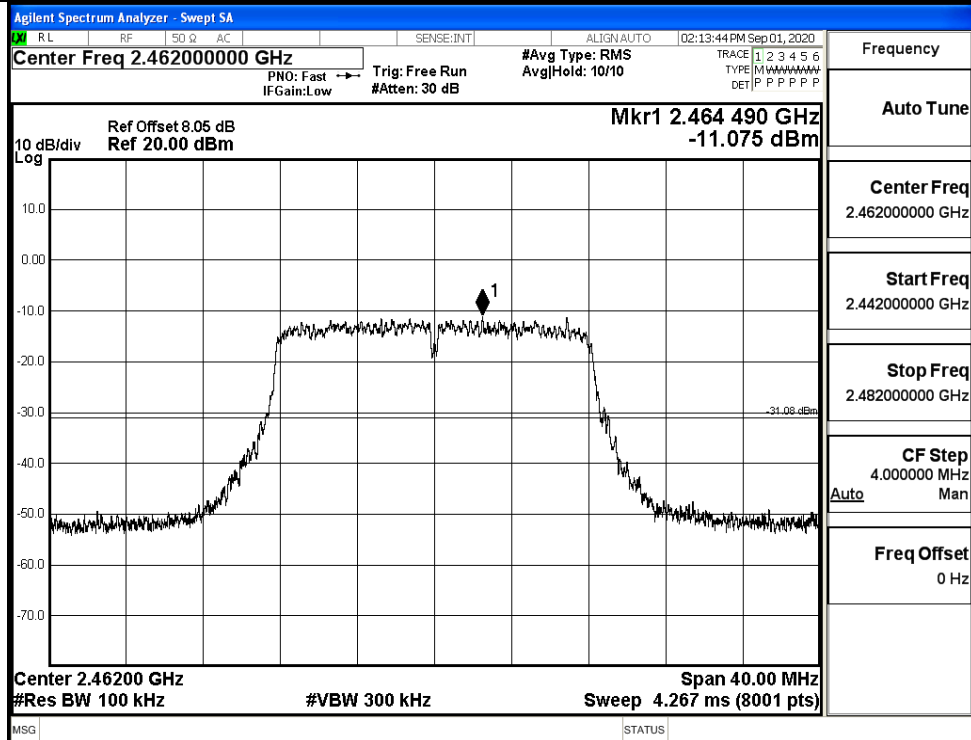


Puw/11G/MCH

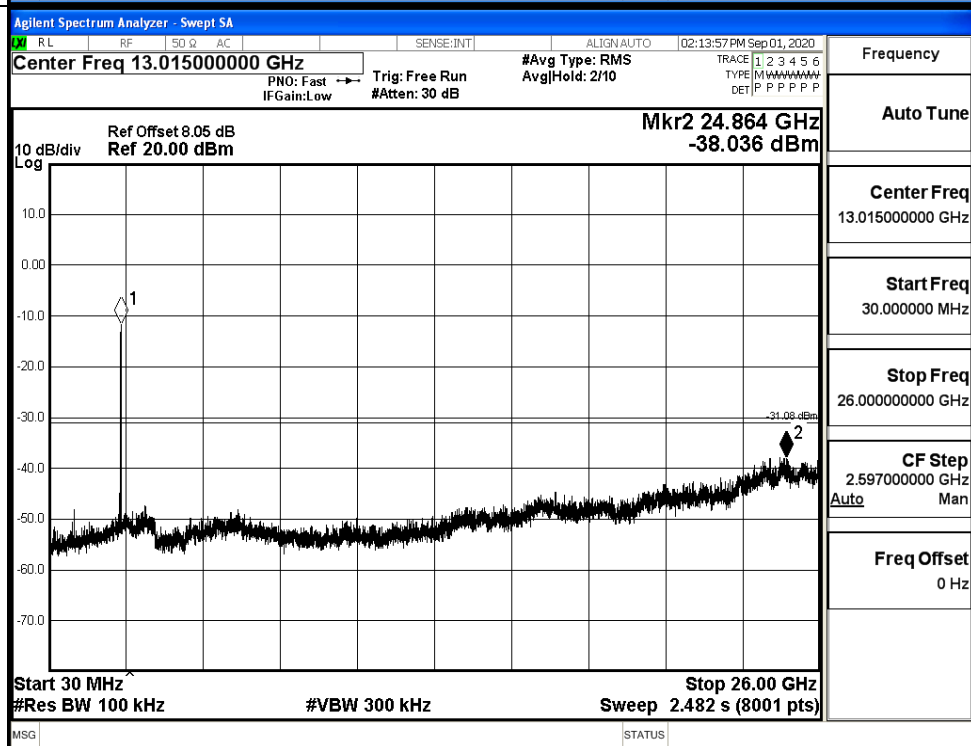


11G HCH Graphs

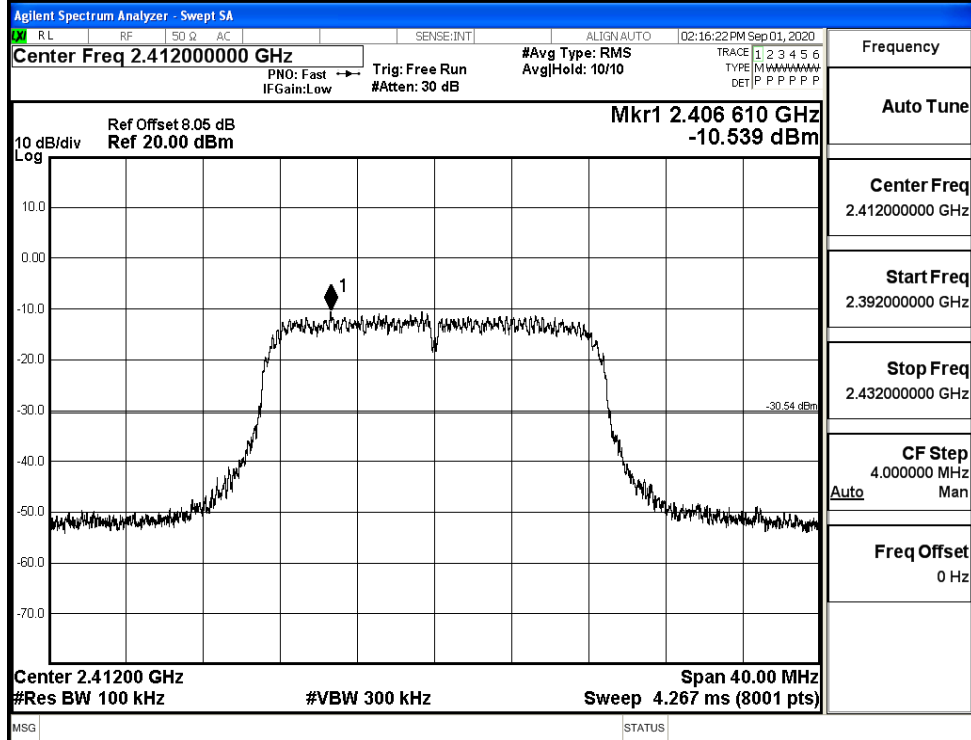
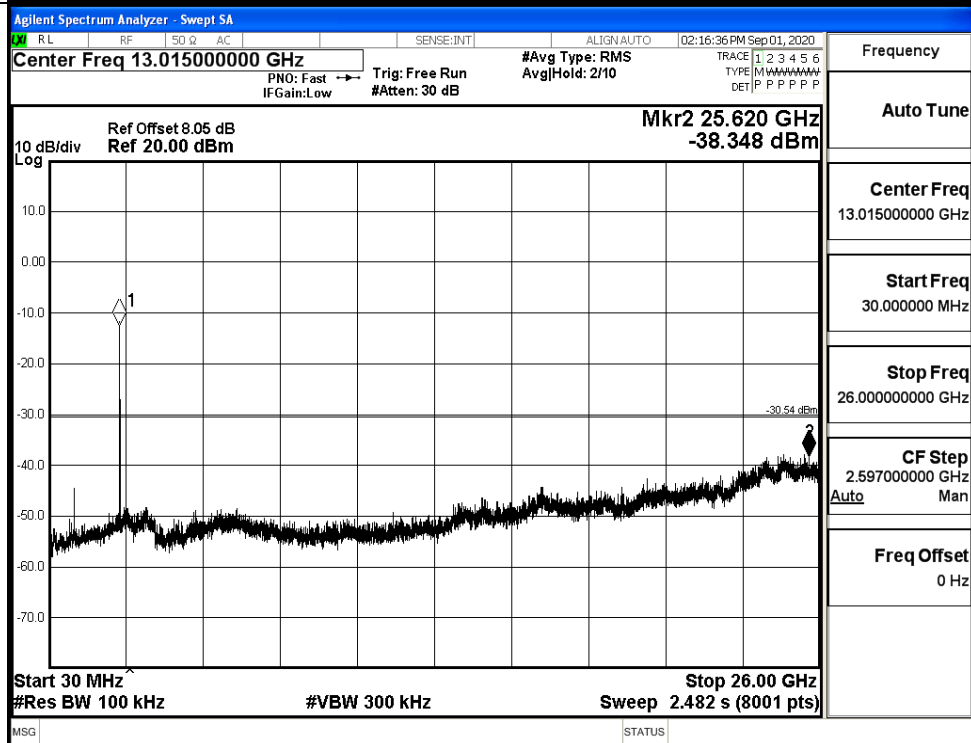
Pref/11G/HCH



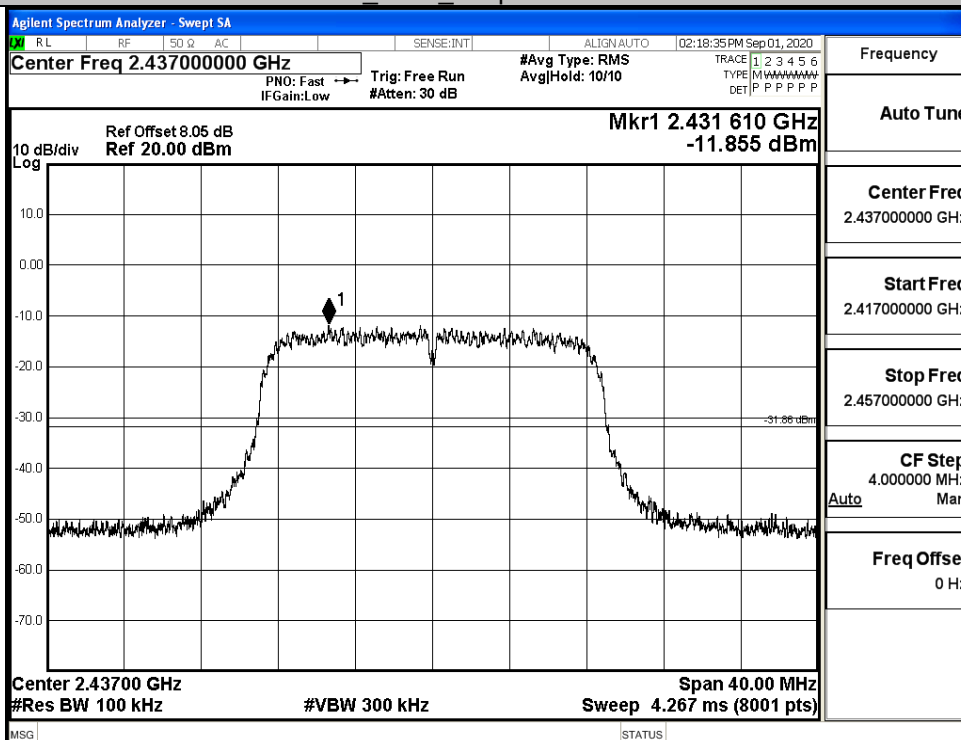
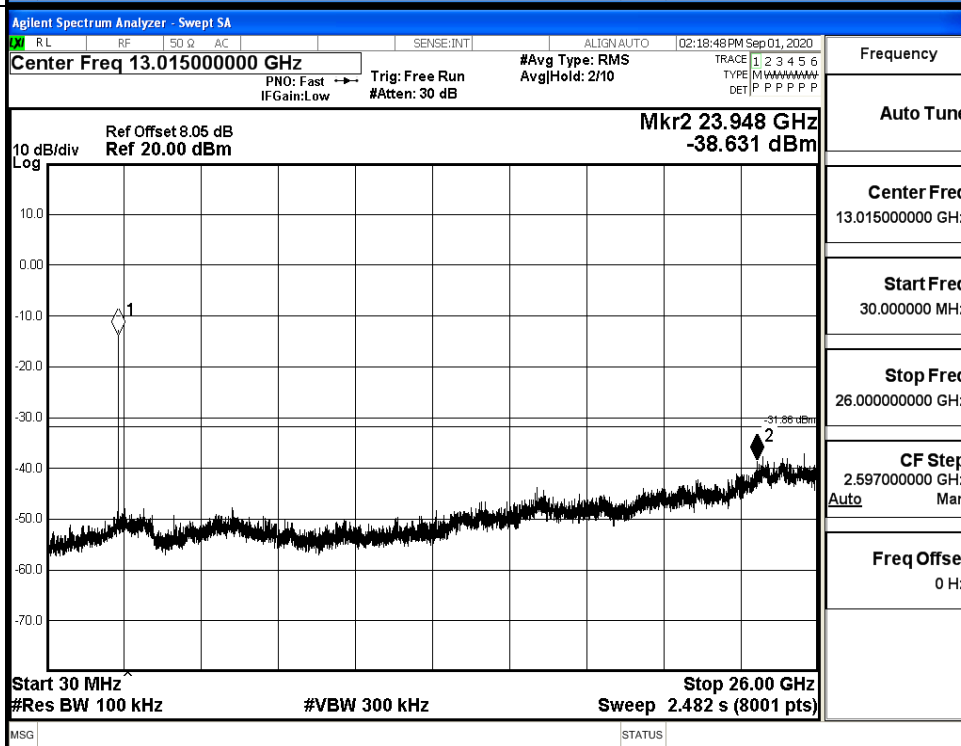
Puw/11G/HCH



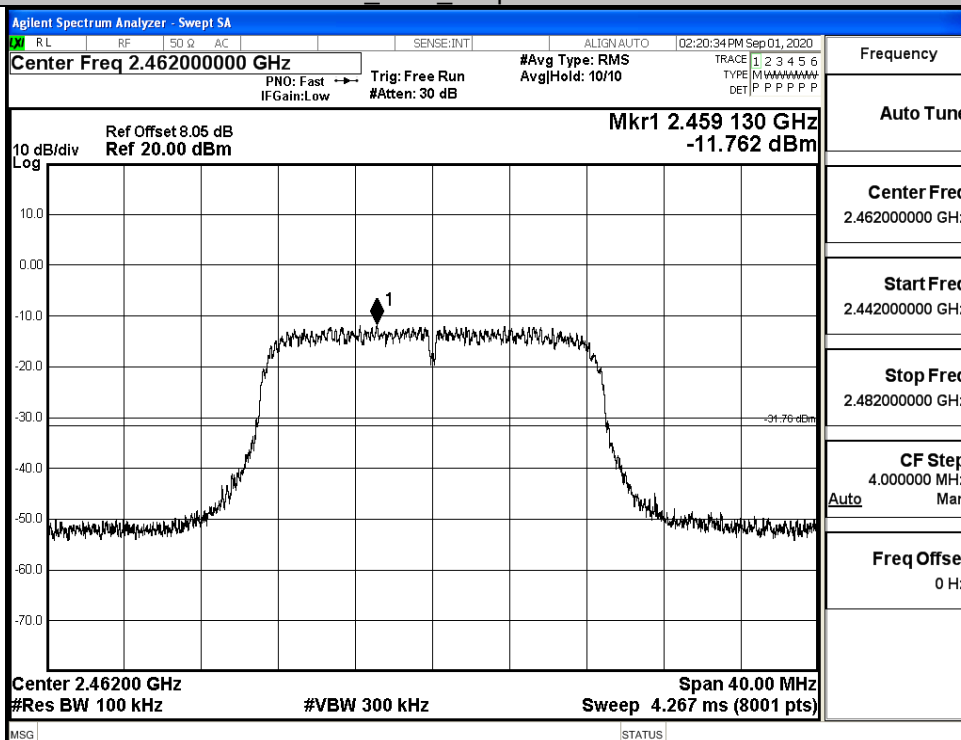
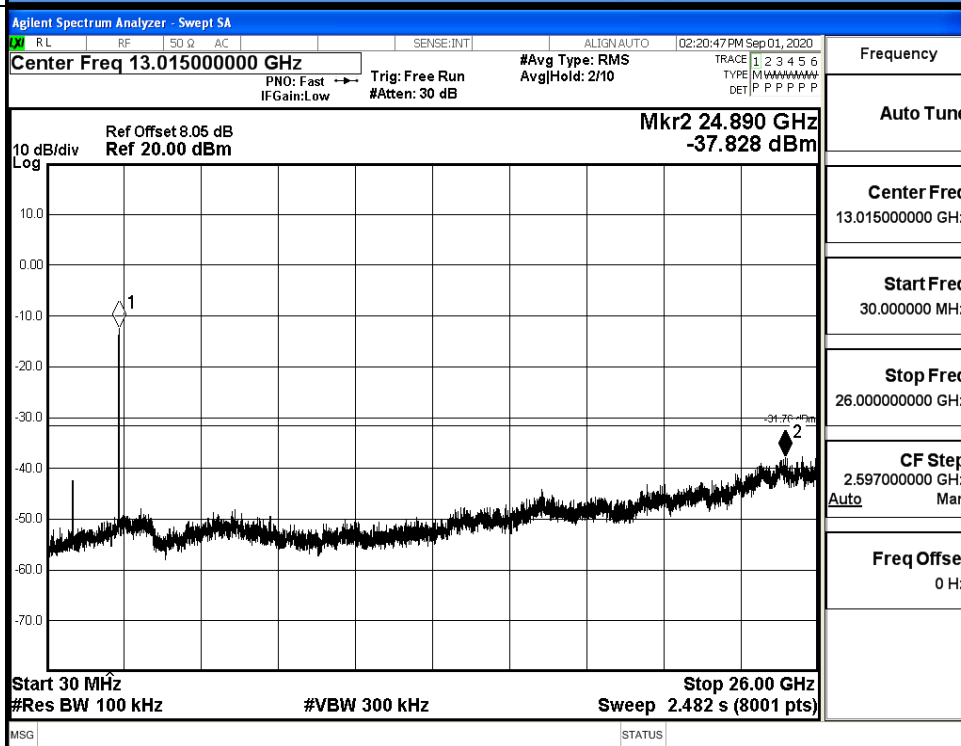
11N20SISO LCH Graphs

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

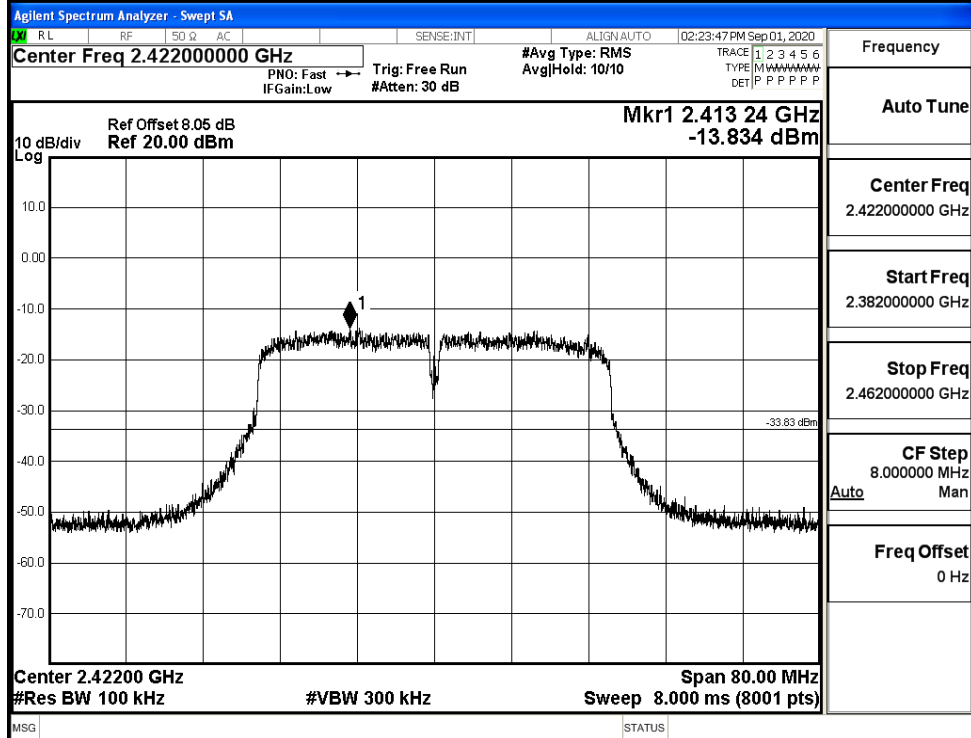
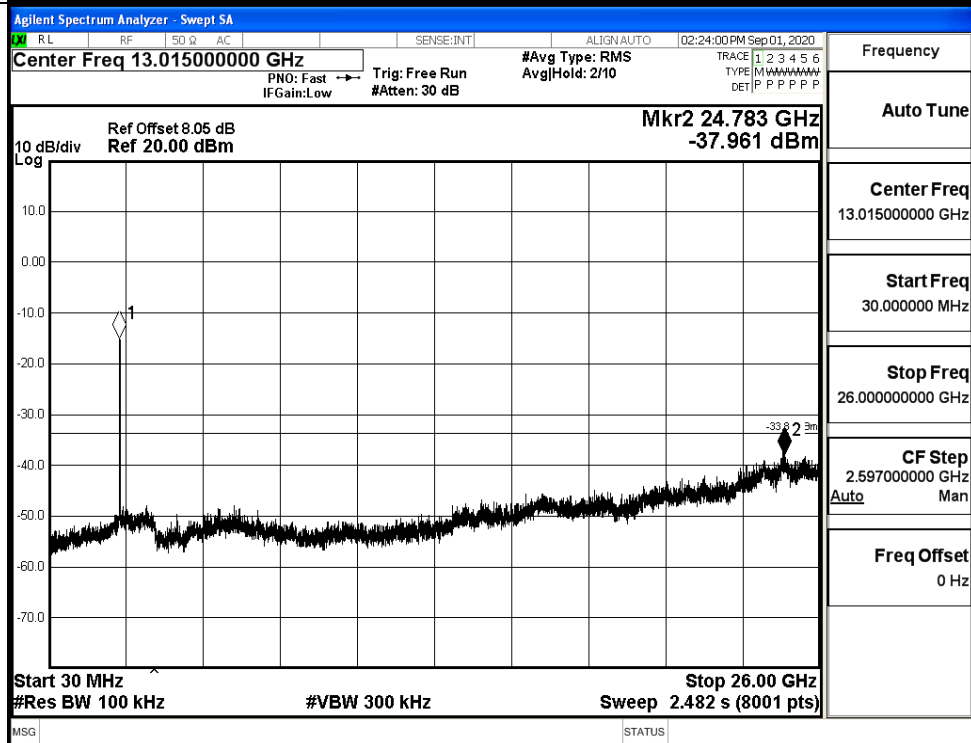
11N20SISO_MCH_Graphs

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

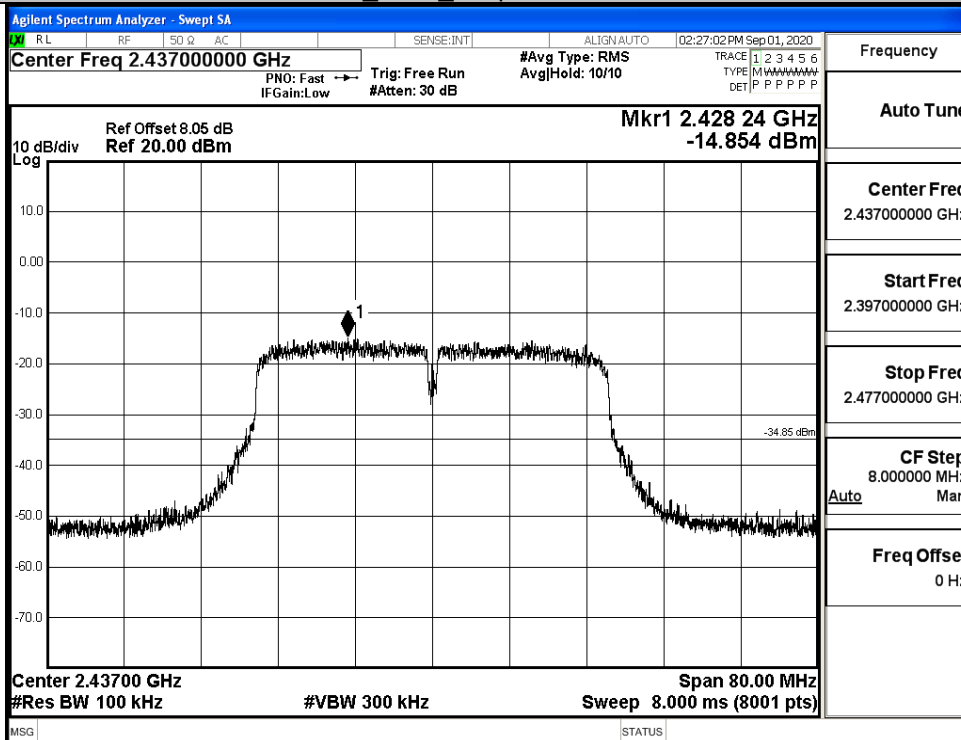
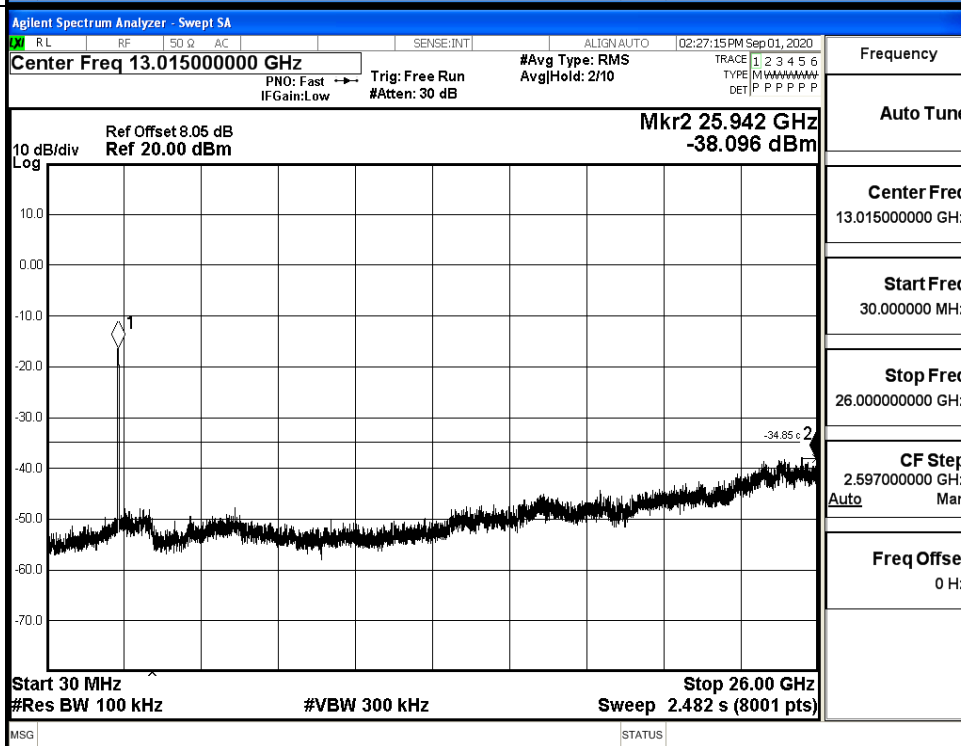
11N20SISO HCH Graphs

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

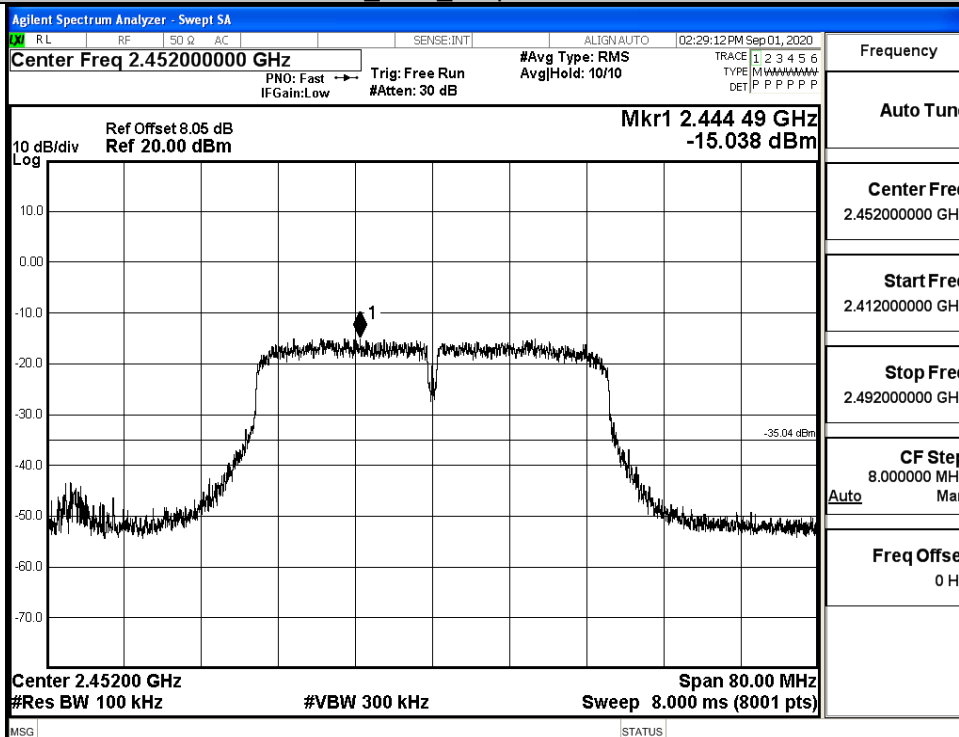
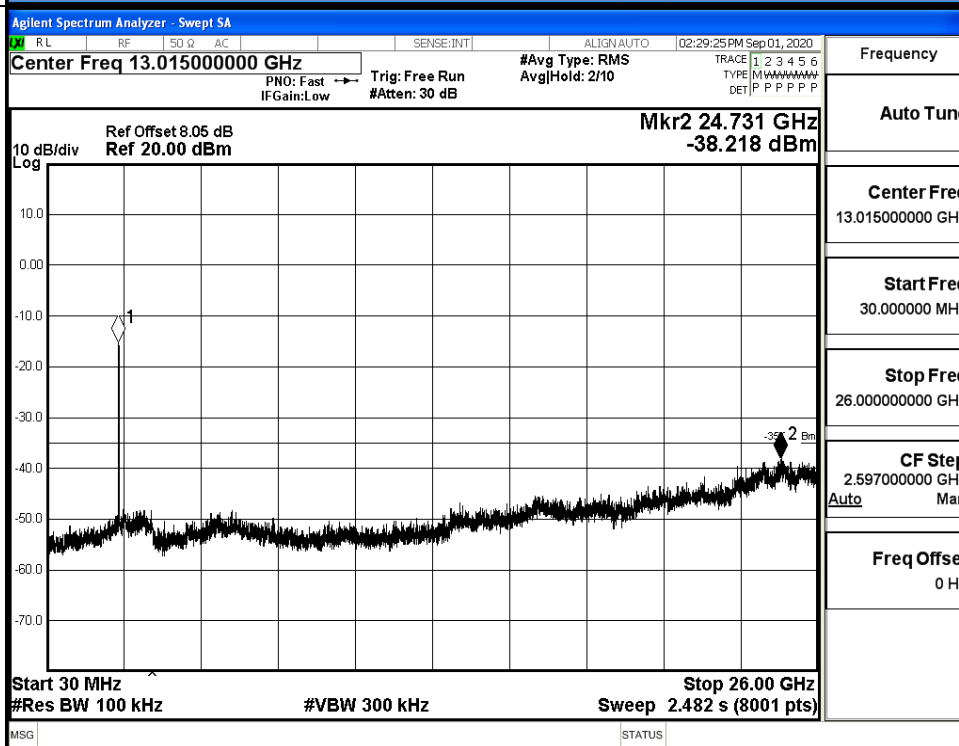
11N40SISO LCH Graphs

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

11N40SISO_MCH_Graphs

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

11N40SISO HCH Graphs

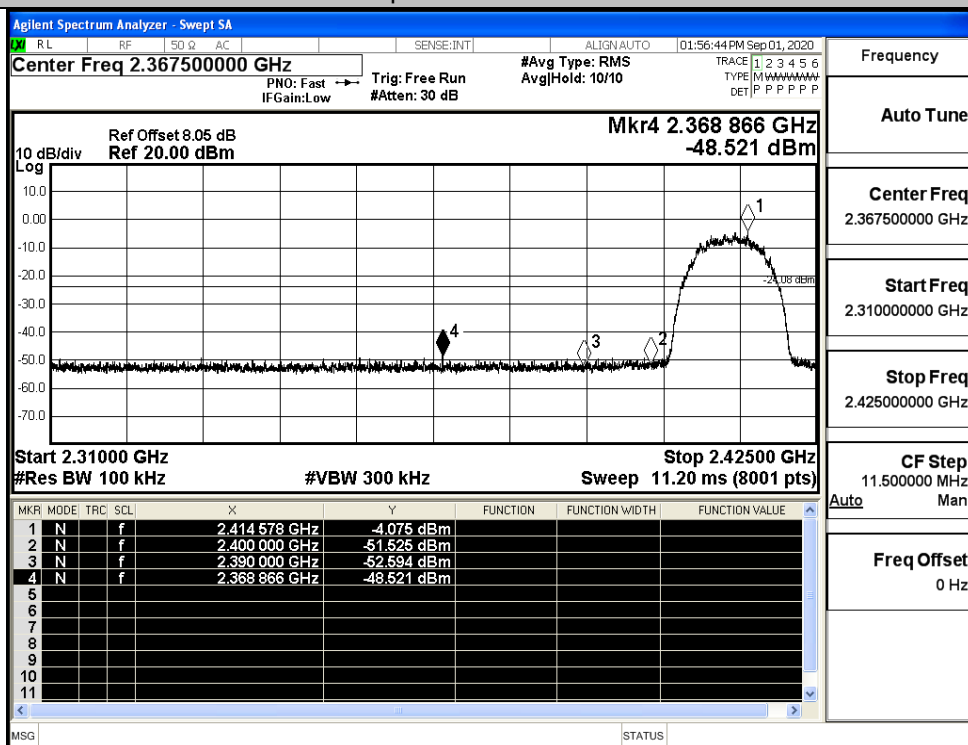
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

B.6 Band-edge for RF Conducted Emissions

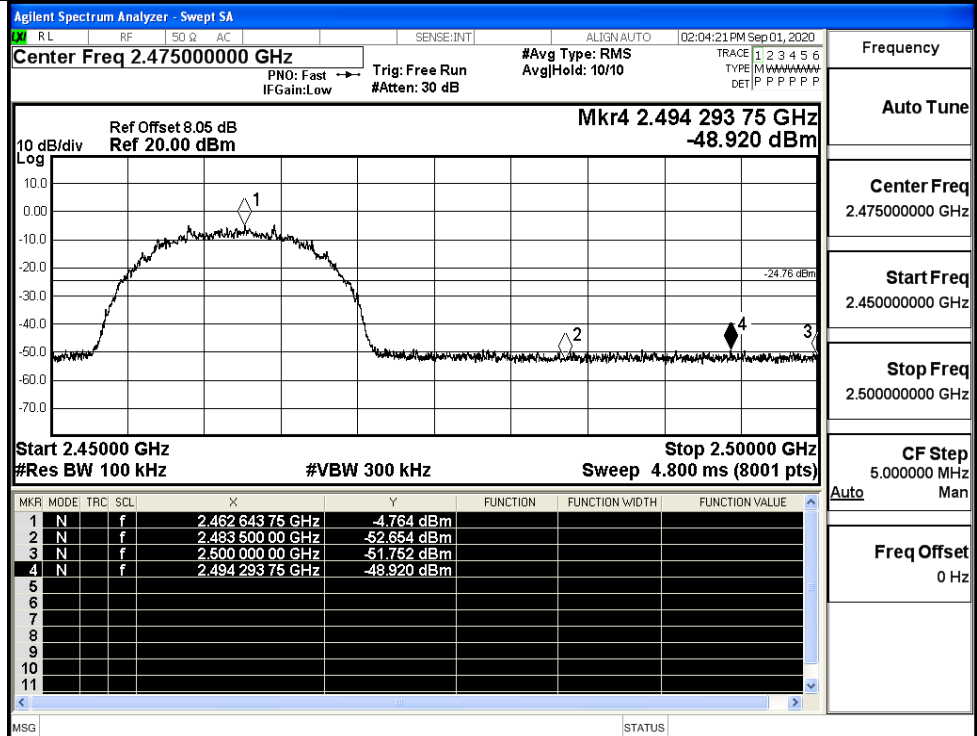
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.075	-48.521	-24.08	PASS
	HCH	-4.764	-48.920	-24.76	PASS
11G	LCH	-10.327	-48.620	-30.33	PASS
	HCH	-10.986	-49.142	-30.99	PASS
11N20SISO	LCH	-10.168	-49.165	-30.17	PASS
	HCH	-11.242	-48.738	-31.24	PASS
11N40SISO	LCH	-13.757	-48.292	-33.76	PASS
	HCH	-14.691	-49.091	-34.69	PASS

Test Graphs

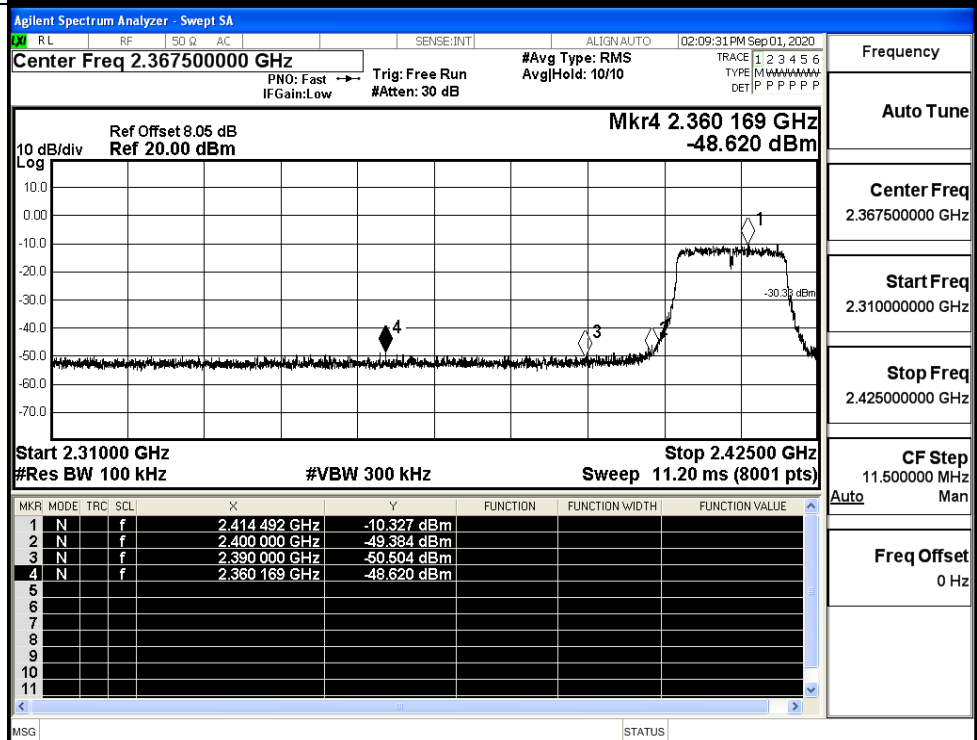
11B/LCH



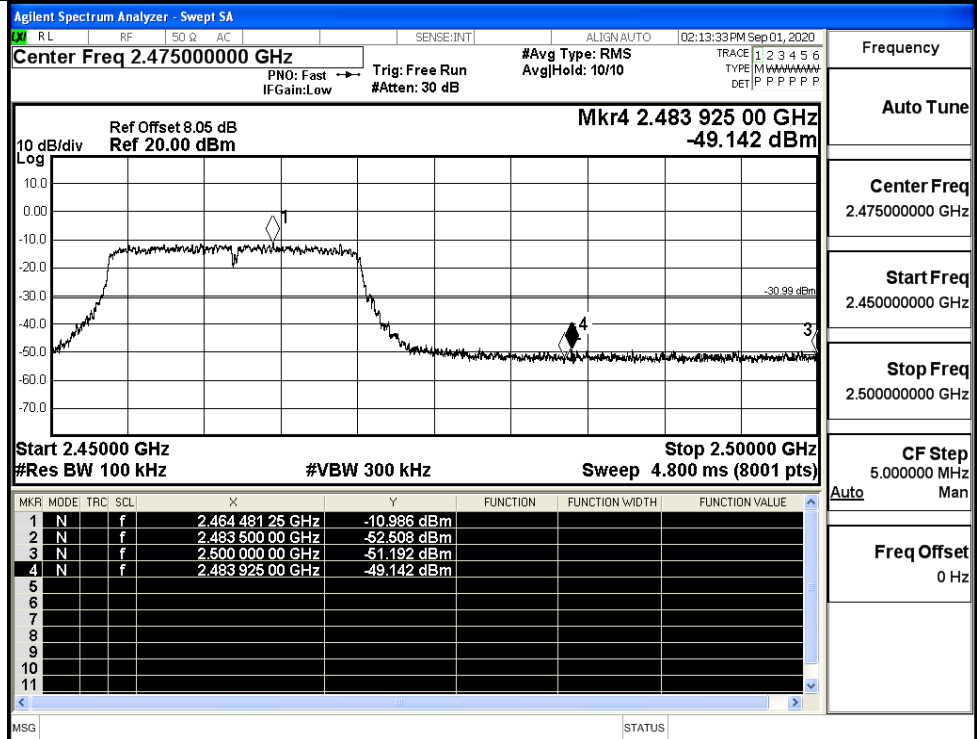
11B/HCH



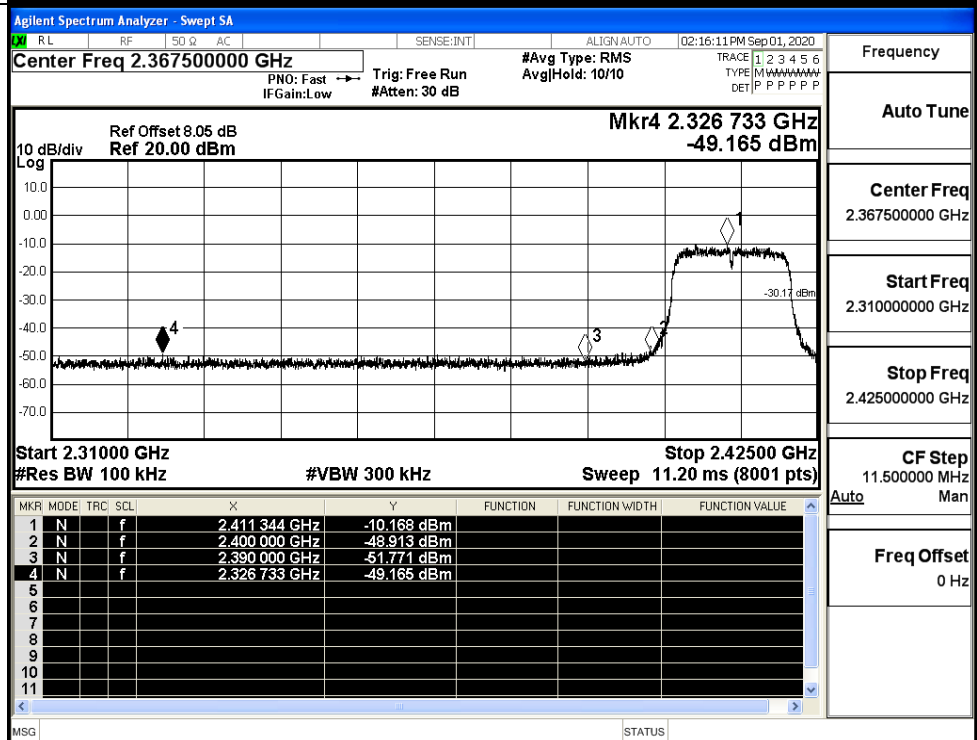
11G/LCH



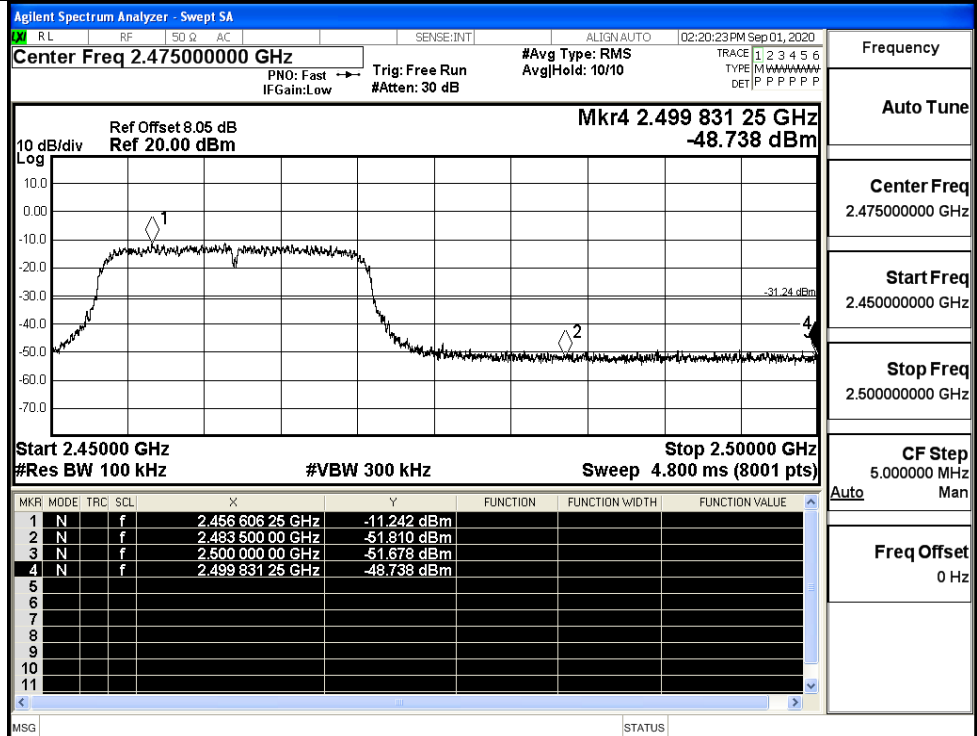
11G/HCH



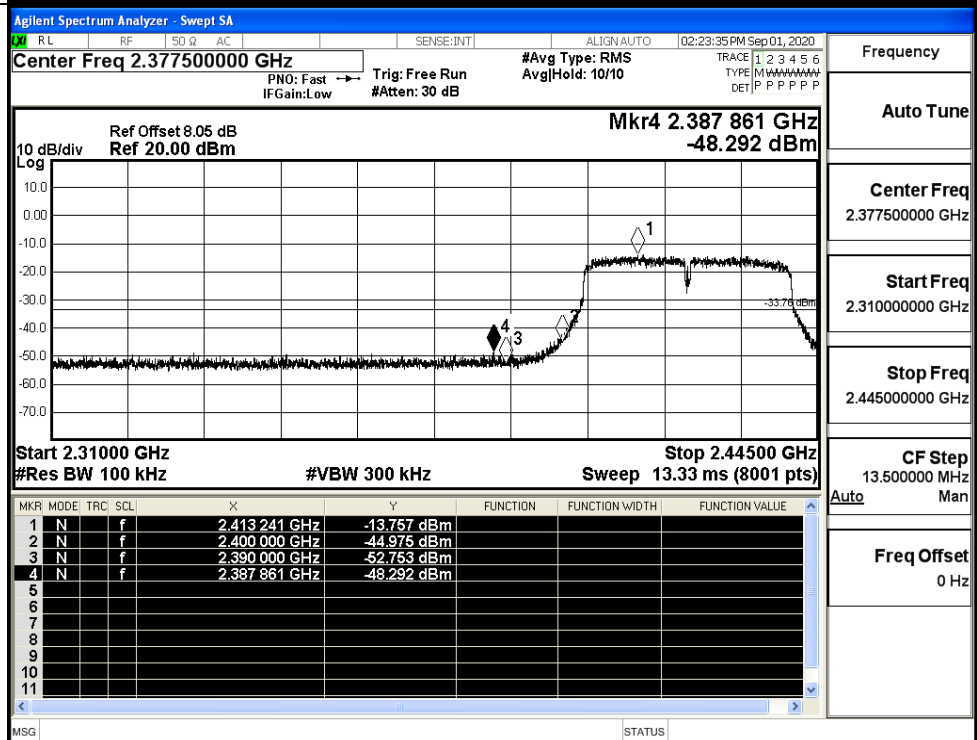
11N20SISO/LCH



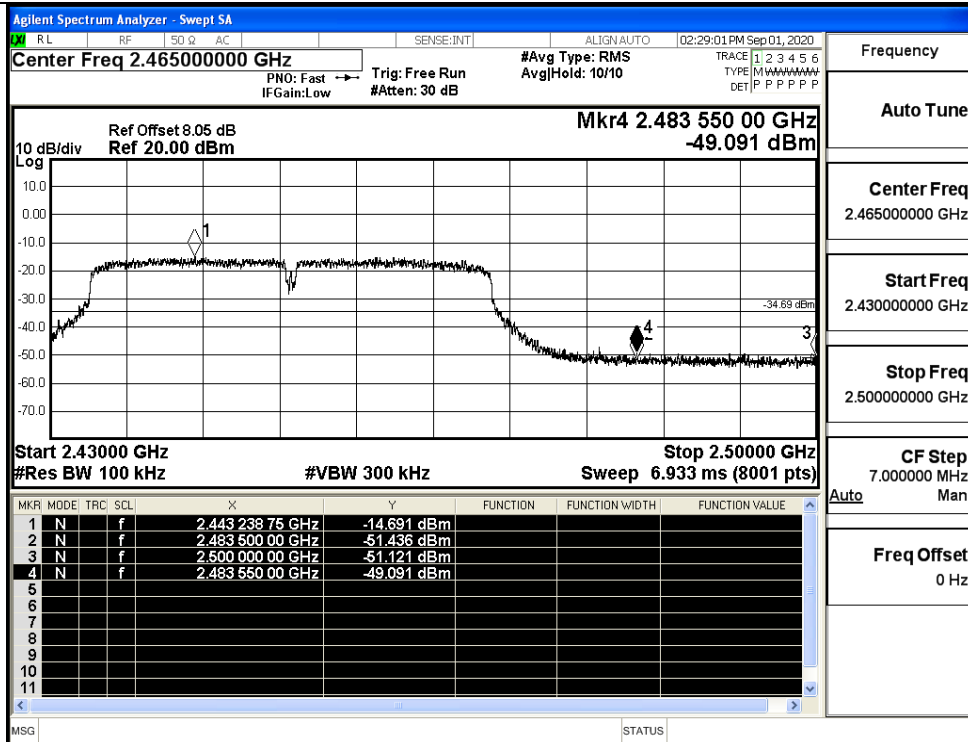
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

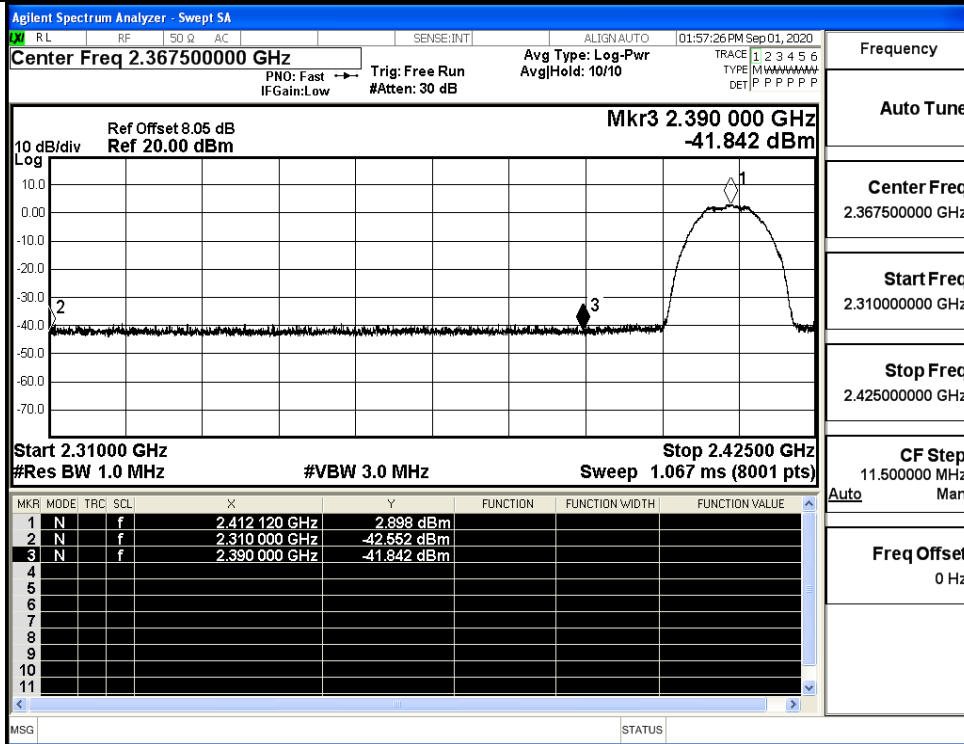


B.7 Restrict-band band-edge measurements

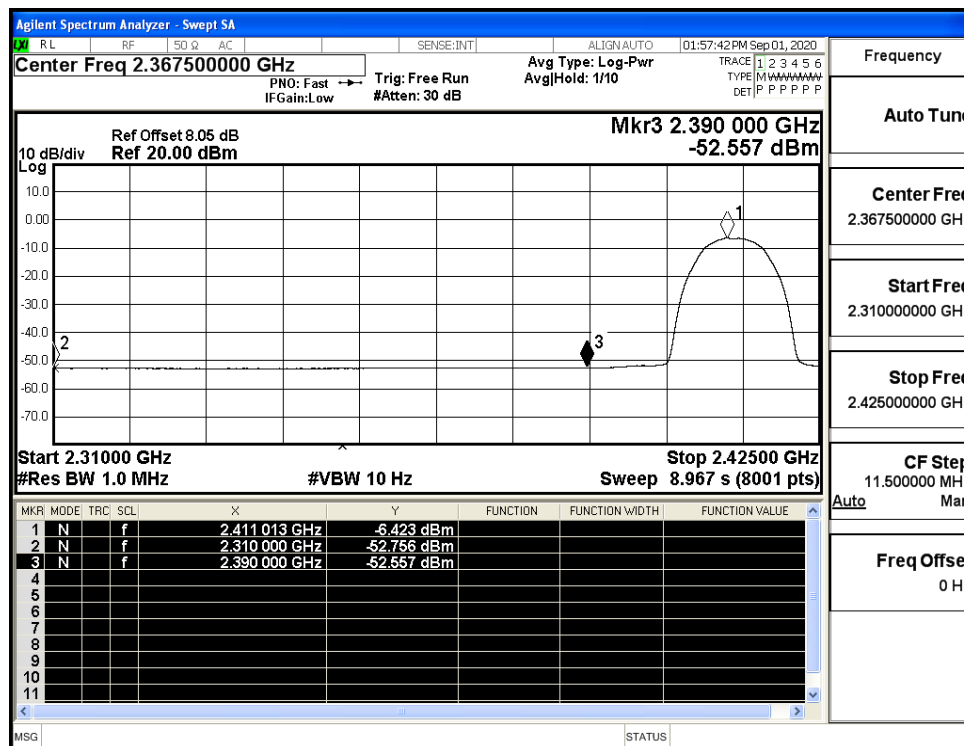
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-42.55	2.0	0	54.68	PEAK	74	PASS
	2412	Ant1	2310.0	-52.76	2.0	0	44.47	AV	54	PASS
	2412	Ant1	2390.0	-41.84	2.0	0	55.39	PEAK	74	PASS
	2412	Ant1	2390.0	-52.56	2.0	0	44.67	AV	54	PASS
	2462	Ant1	2483.5	-42.16	2.0	0	55.07	PEAK	74	PASS
	2462	Ant1	2483.5	-52.44	2.0	0	44.79	AV	54	PASS
	2462	Ant1	2500.0	-41.52	2.0	0	55.71	PEAK	74	PASS
	2462	Ant1	2500.0	-52.26	2.0	0	44.97	AV	54	PASS
11G	2412	Ant1	2310.0	-41.06	2.0	0	56.17	PEAK	74	PASS
	2412	Ant1	2310.0	-52.65	2.0	0	44.58	AV	54	PASS
	2412	Ant1	2390.0	-42.24	2.0	0	54.99	PEAK	74	PASS
	2412	Ant1	2390.0	-52.40	2.0	0	44.83	AV	54	PASS
	2462	Ant1	2483.5	-41.66	2.0	0	55.57	PEAK	74	PASS
	2462	Ant1	2483.5	-52.22	2.0	0	45.01	AV	54	PASS
	2462	Ant1	2500.0	-39.92	2.0	0	57.31	PEAK	74	PASS
	2462	Ant1	2500.0	-52.23	2.0	0	45.00	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-41.58	2.0	0	55.65	PEAK	74	PASS
	2412	Ant1	2310.0	-52.84	2.0	0	44.39	AV	54	PASS
	2412	Ant1	2390.0	-42.70	2.0	0	54.53	PEAK	74	PASS
	2412	Ant1	2390.0	-52.47	2.0	0	44.76	AV	54	PASS
	2462	Ant1	2483.5	-41.67	2.0	0	55.56	PEAK	74	PASS
	2462	Ant1	2483.5	-52.33	2.0	0	44.90	AV	54	PASS
	2462	Ant1	2500.0	-40.90	2.0	0	56.33	PEAK	74	PASS
	2462	Ant1	2500.0	-52.35	2.0	0	44.88	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.23	2.0	0	55.00	PEAK	74	PASS
	2422	Ant1	2310.0	-52.75	2.0	0	44.48	AV	54	PASS
	2422	Ant1	2390.0	-41.93	2.0	0	55.30	PEAK	74	PASS

	2422	Ant1	2390.0	-52.16	2.0	0	45.07	AV	54	PASS
	2452	Ant1	2483.5	-41.98	2.0	0	55.25	PEAK	74	PASS
	2452	Ant1	2483.5	-51.83	2.0	0	45.40	AV	54	PASS
	2452	Ant1	2500.0	-41.79	2.0	0	55.44	PEAK	74	PASS
	2452	Ant1	2500.0	-52.25	2.0	0	44.98	AV	54	PASS

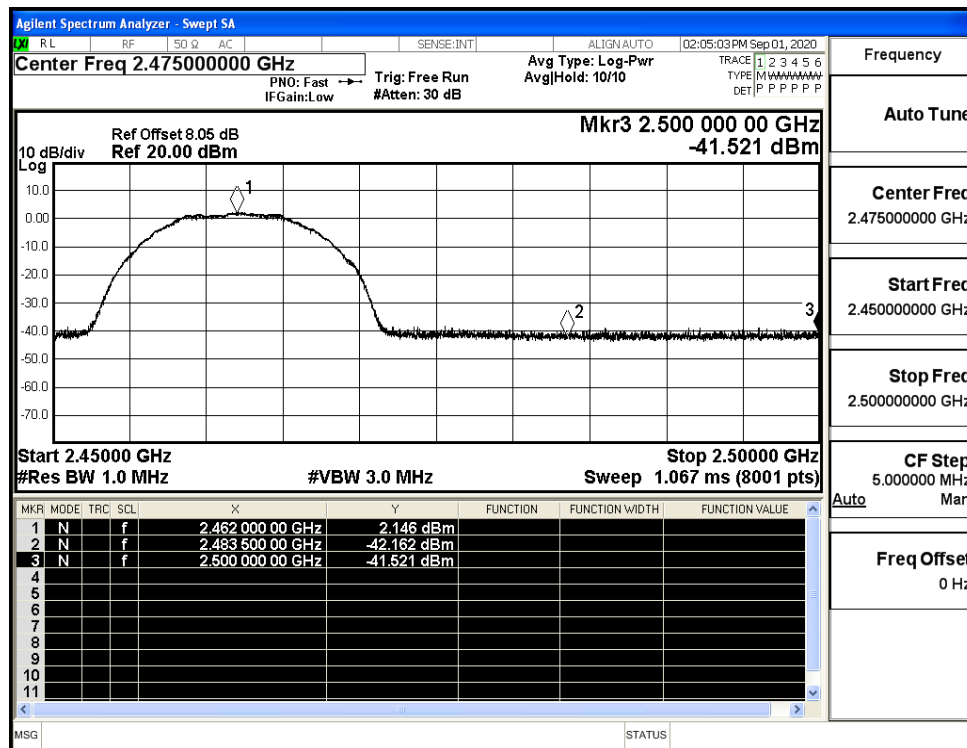
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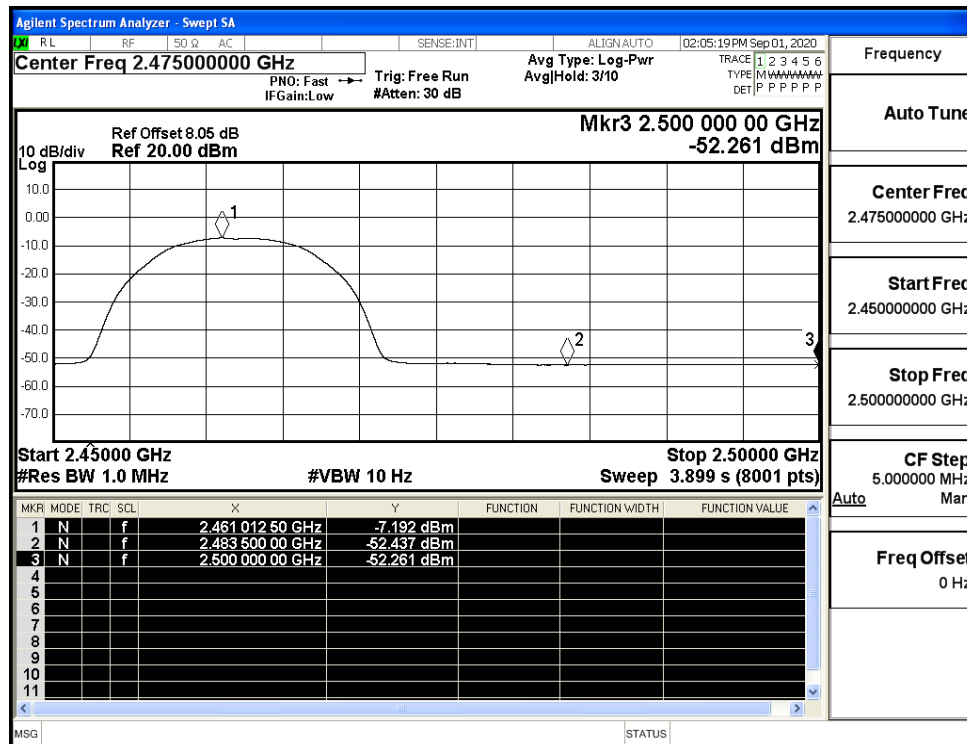
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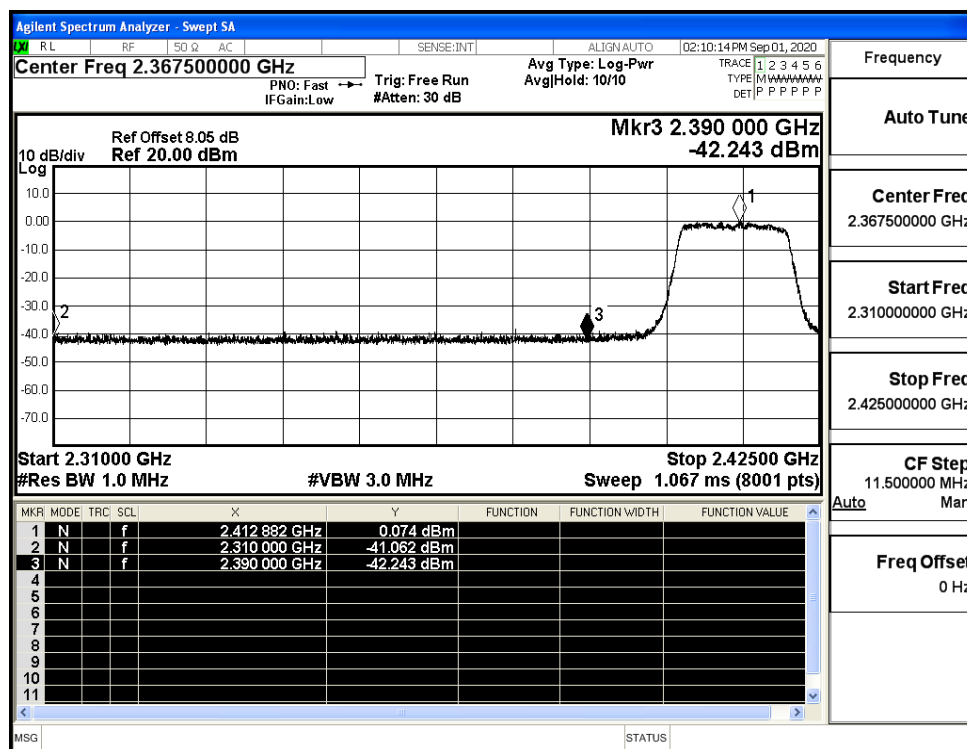
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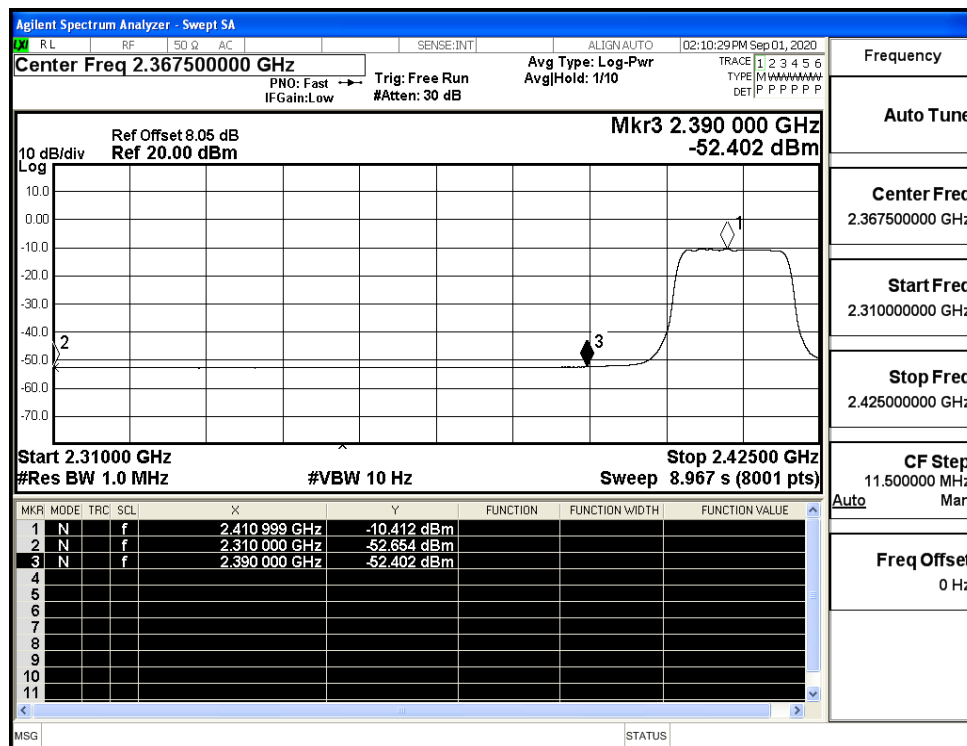
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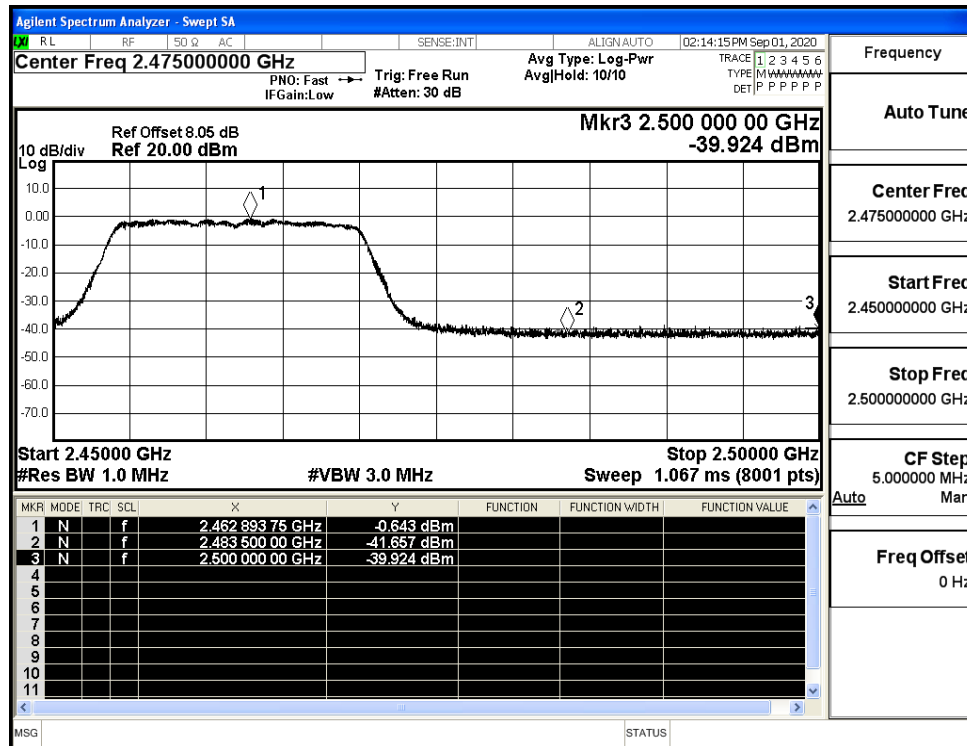
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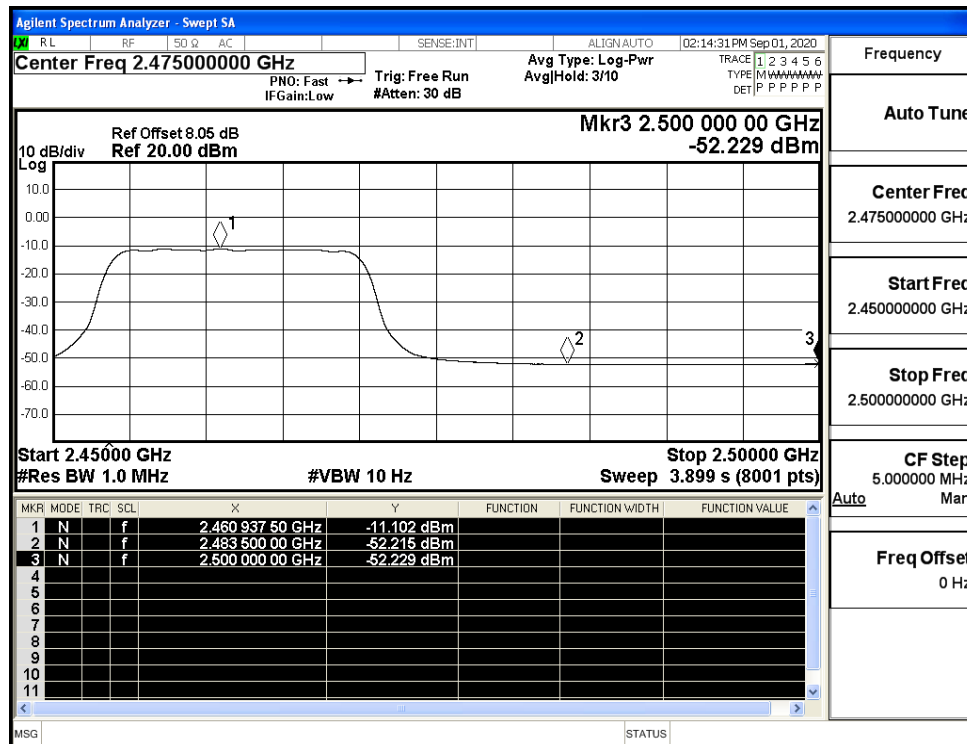
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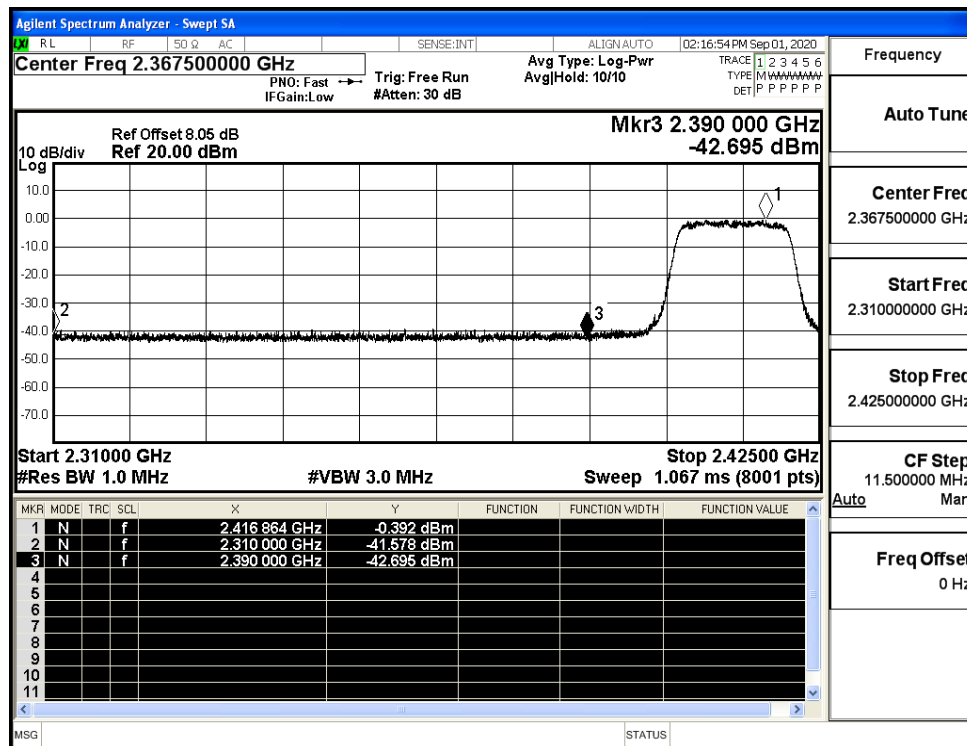
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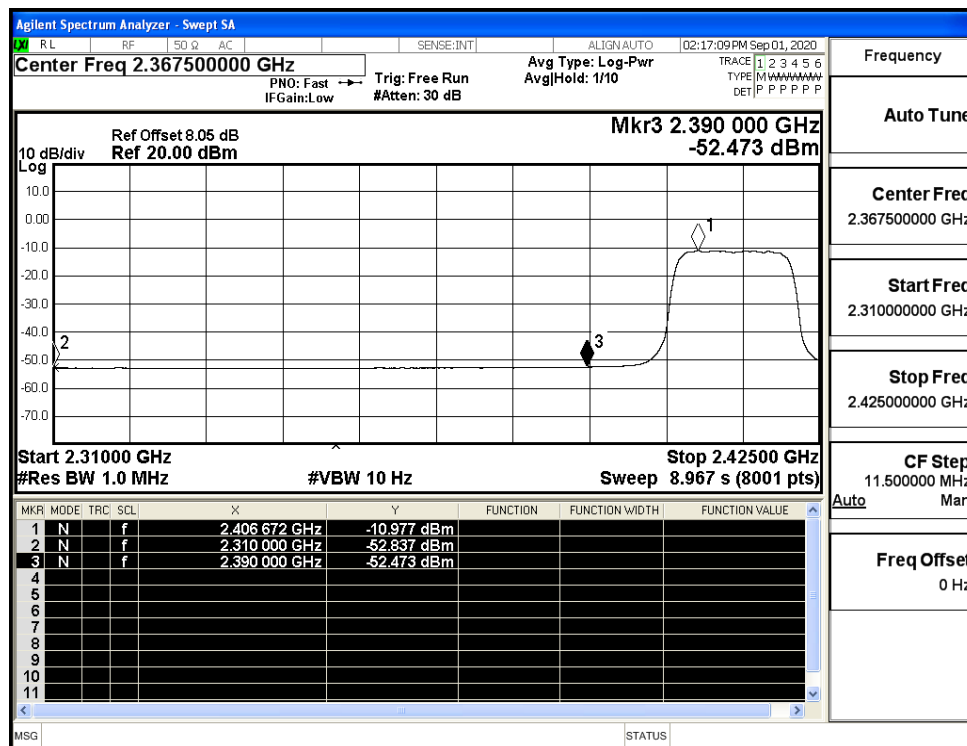
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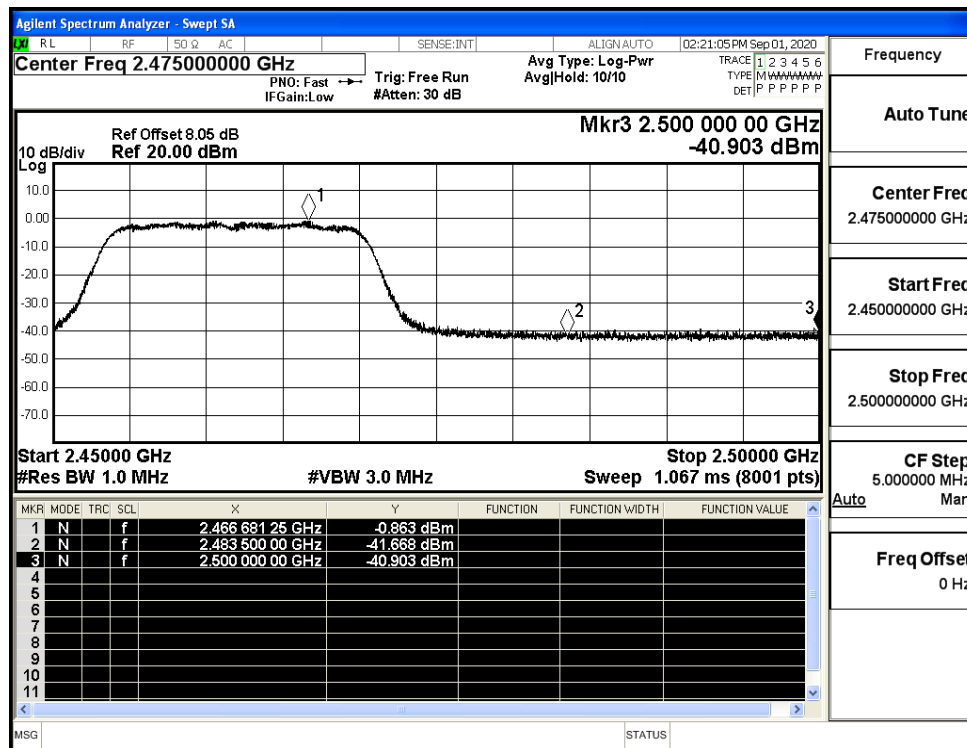
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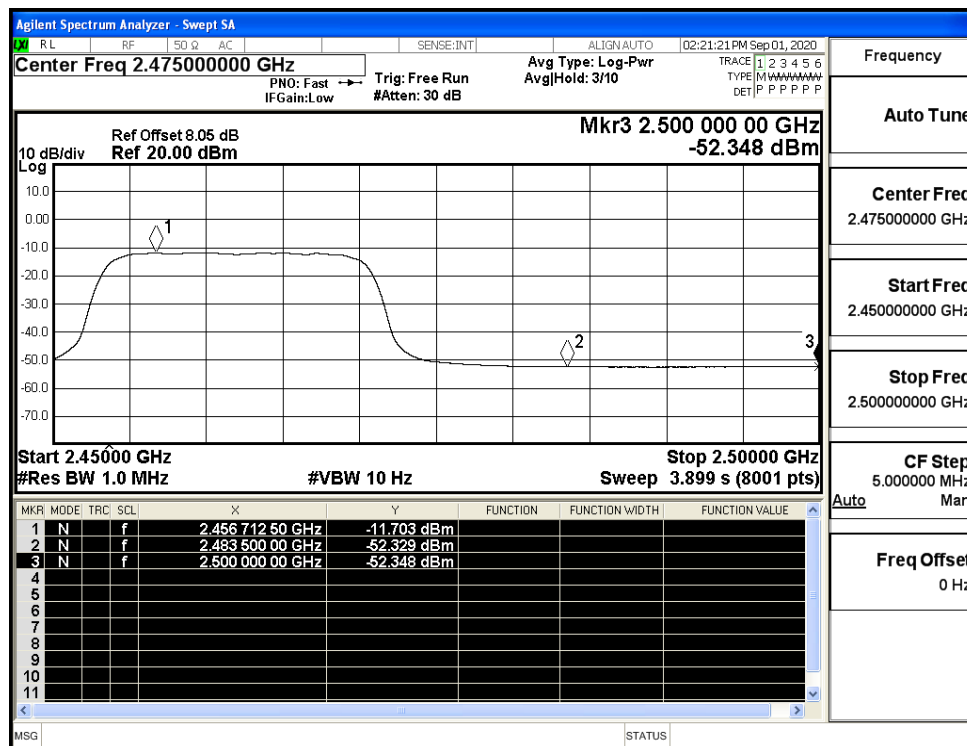
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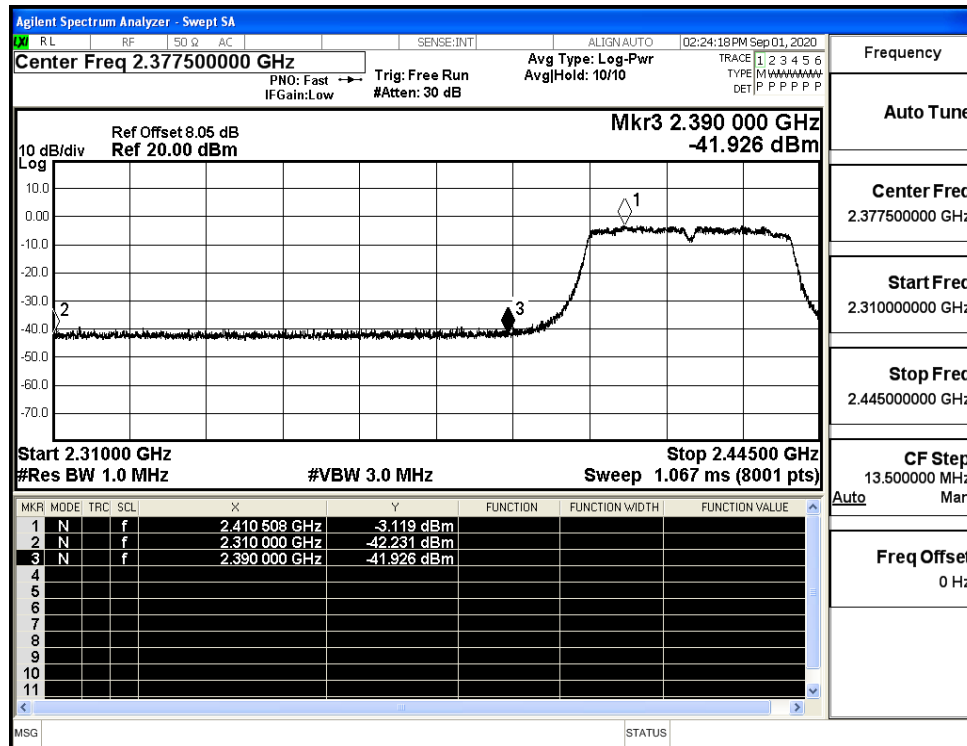
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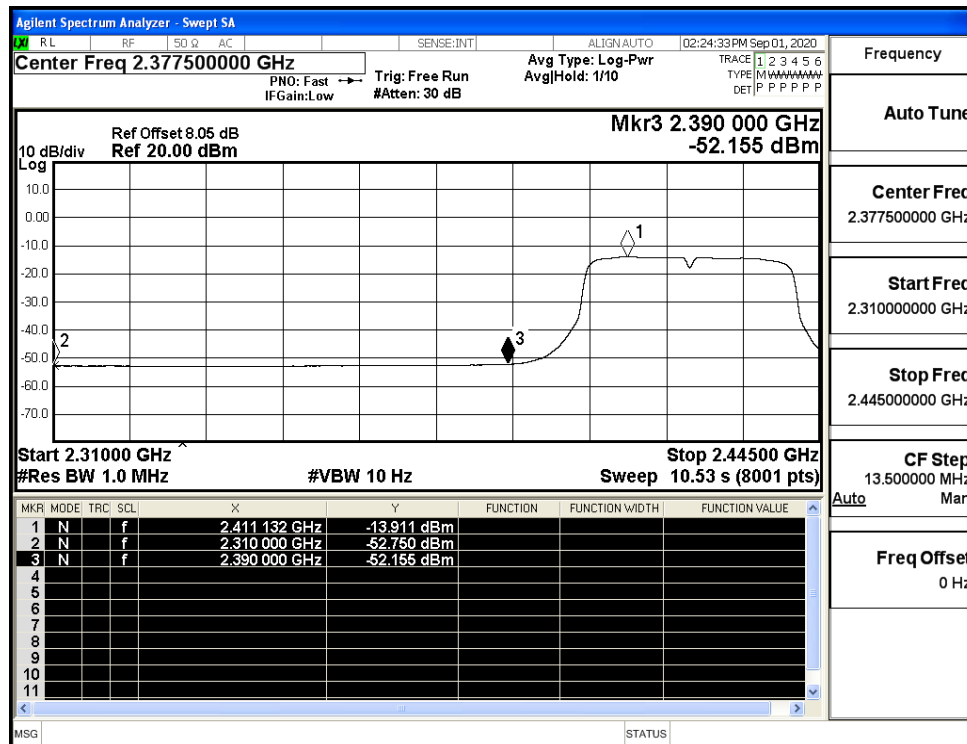
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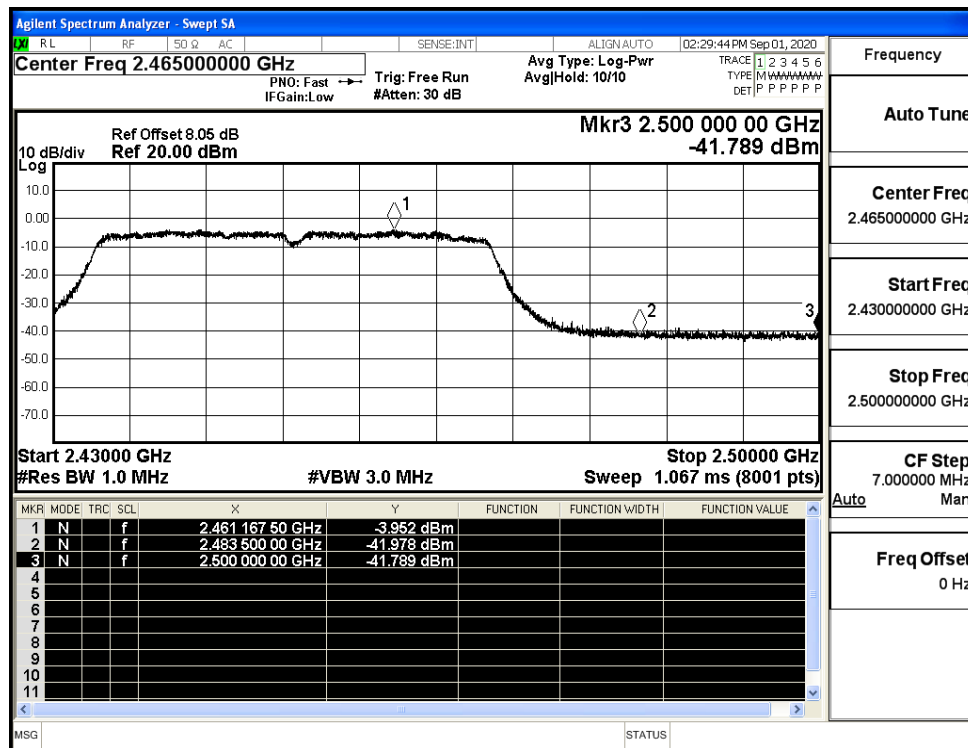
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

