

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: MJ-80

Trade Mark: N/A

Test Model: MJ-80B

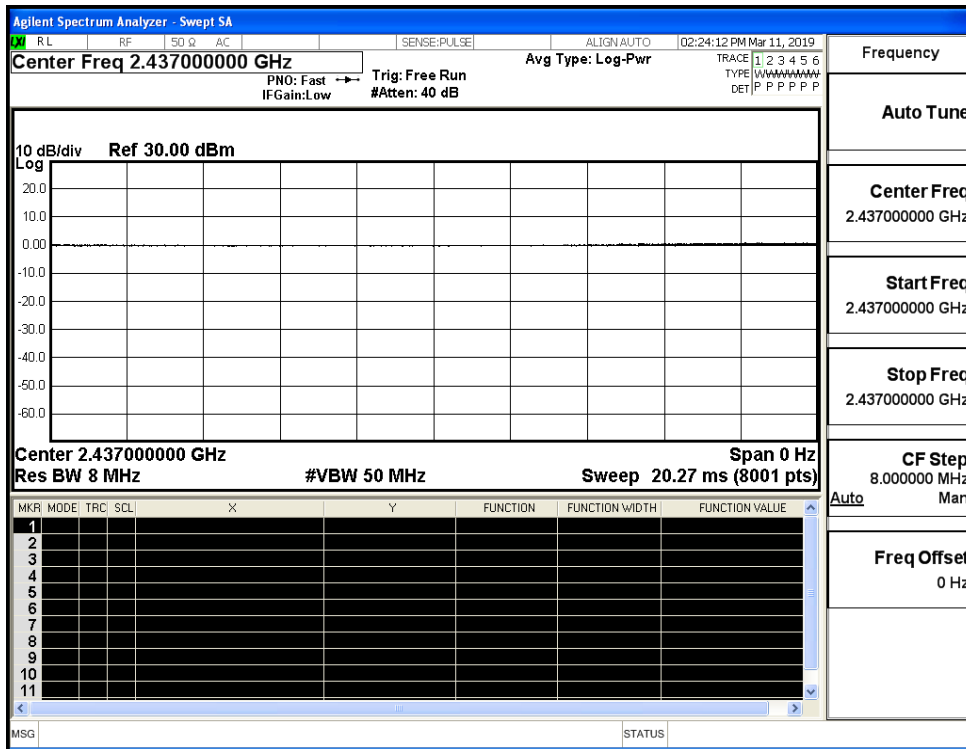
Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Tom Liu

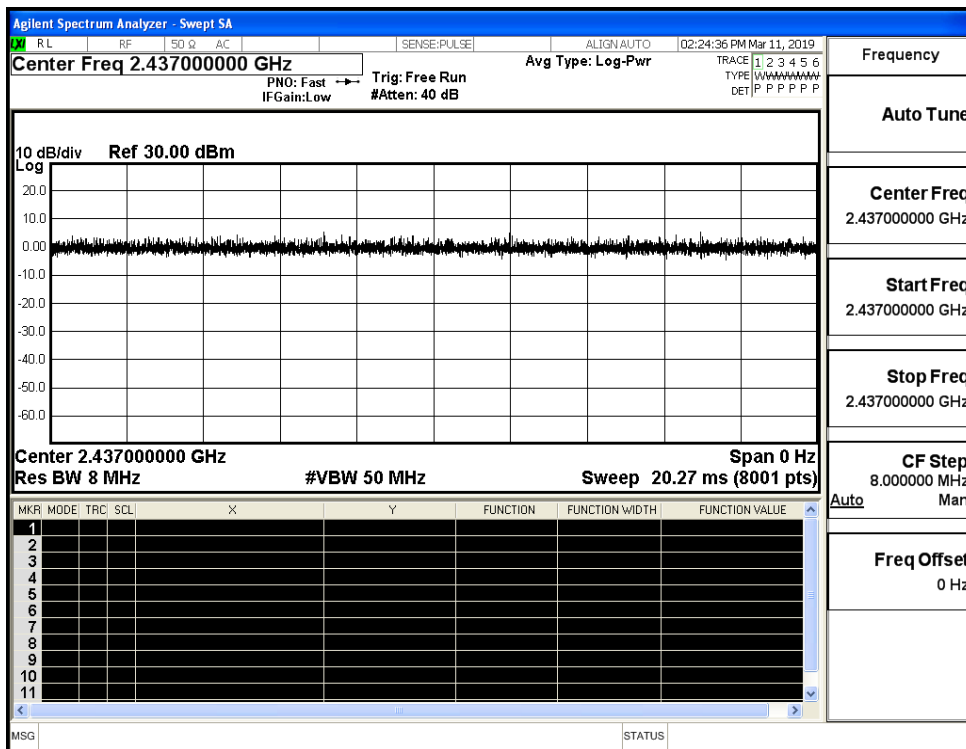
C.1 Duty Cycle

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

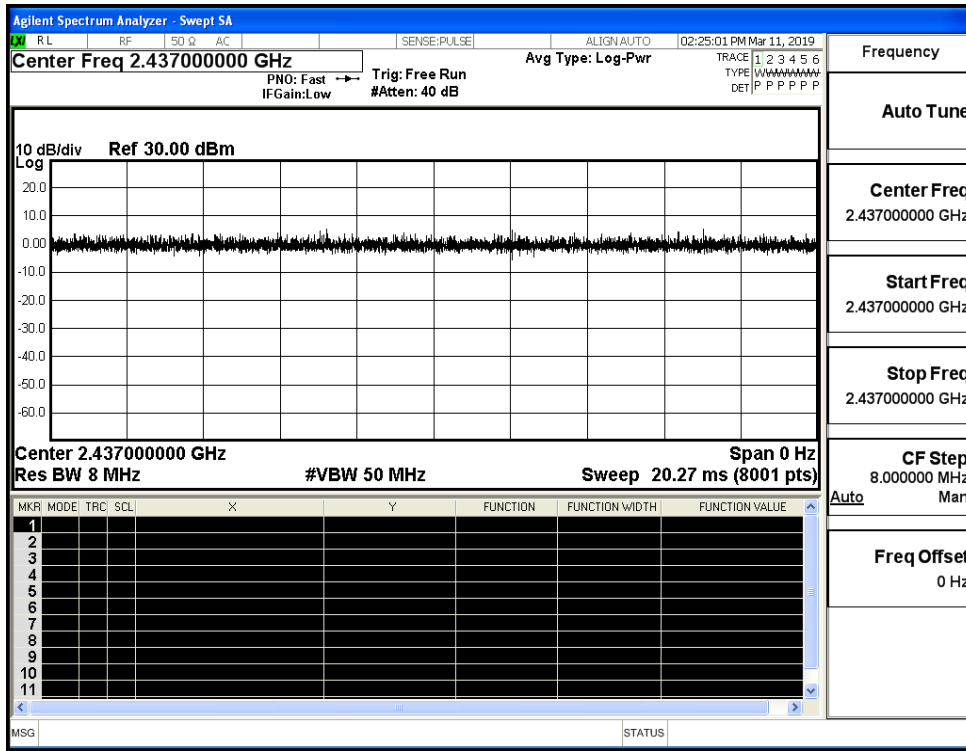
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



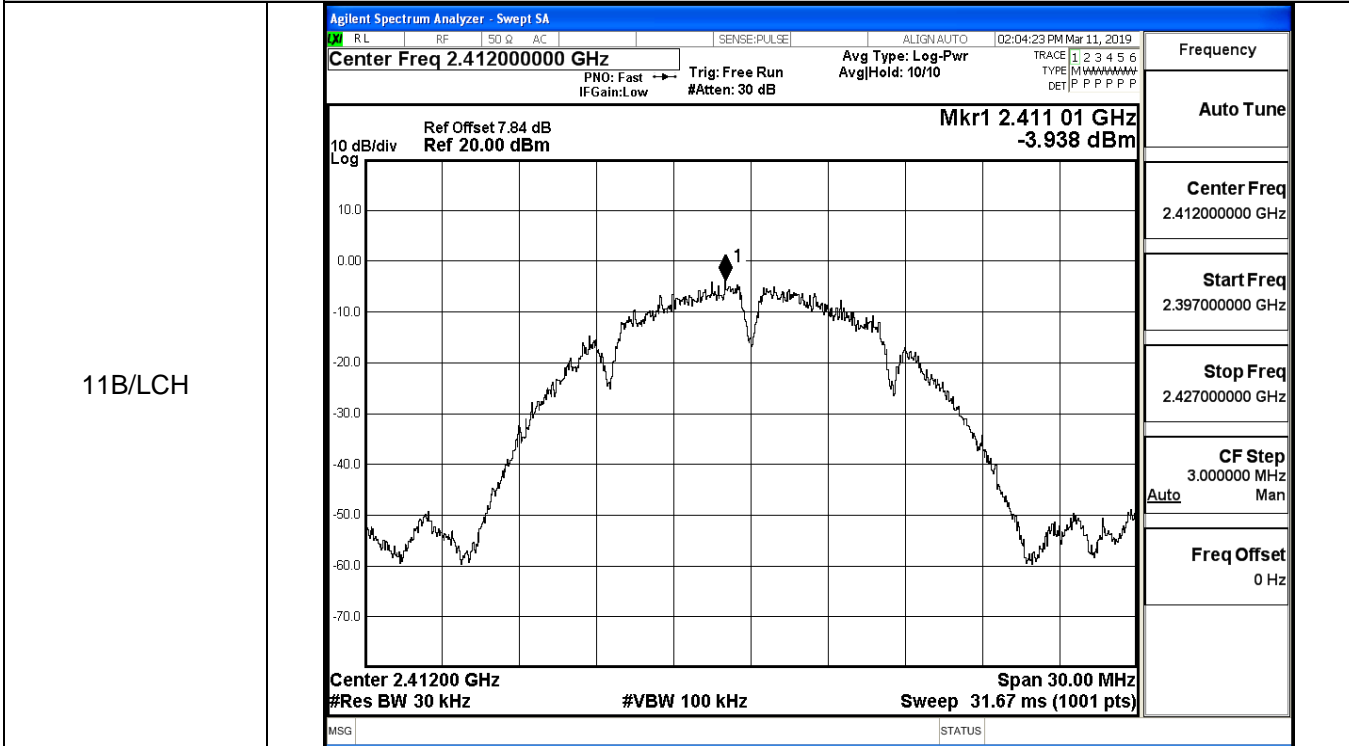
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	11.74	30	PASS
	MCH	11.67	30	PASS
	HCH	11.73	30	PASS
11G	LCH	12.85	30	PASS
	MCH	12.77	30	PASS
	HCH	12.59	30	PASS
11N20SISO	LCH	13.42	30	PASS
	MCH	13.39	30	PASS
	HCH	13.49	30	PASS

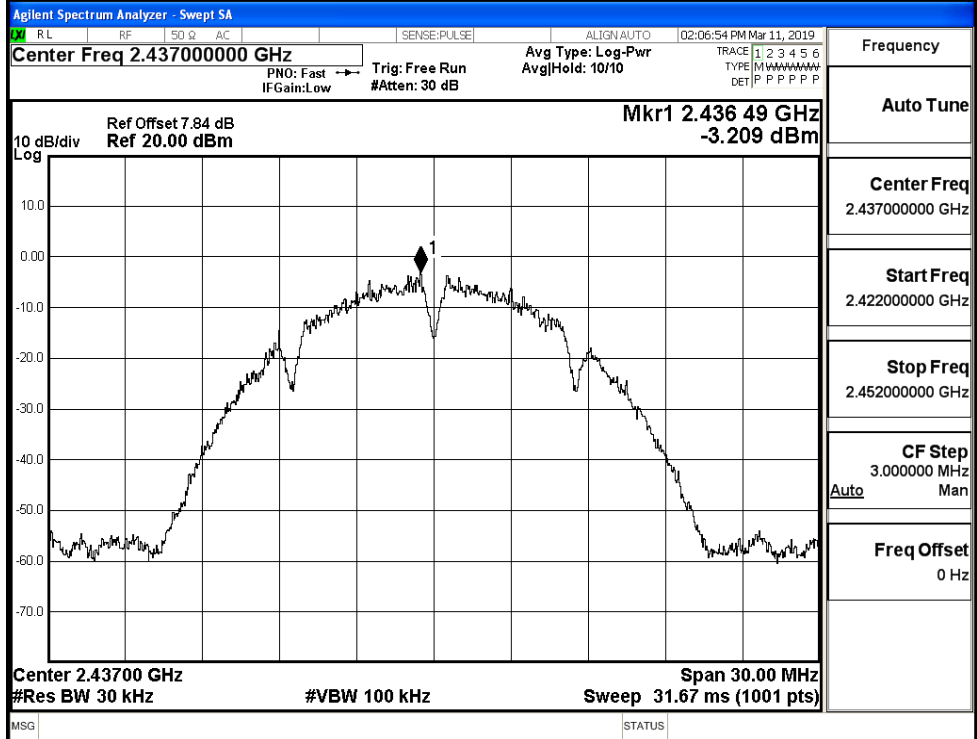
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-3.938	8	PASS
	MCH	-3.209	8	PASS
	HCH	-3.796	8	PASS
11G	LCH	-13.013	8	PASS
	MCH	-11.517	8	PASS
	HCH	-12.636	8	PASS
11N20SISO	LCH	-11.491	8	PASS
	MCH	-11.107	8	PASS
	HCH	-12.203	8	PASS

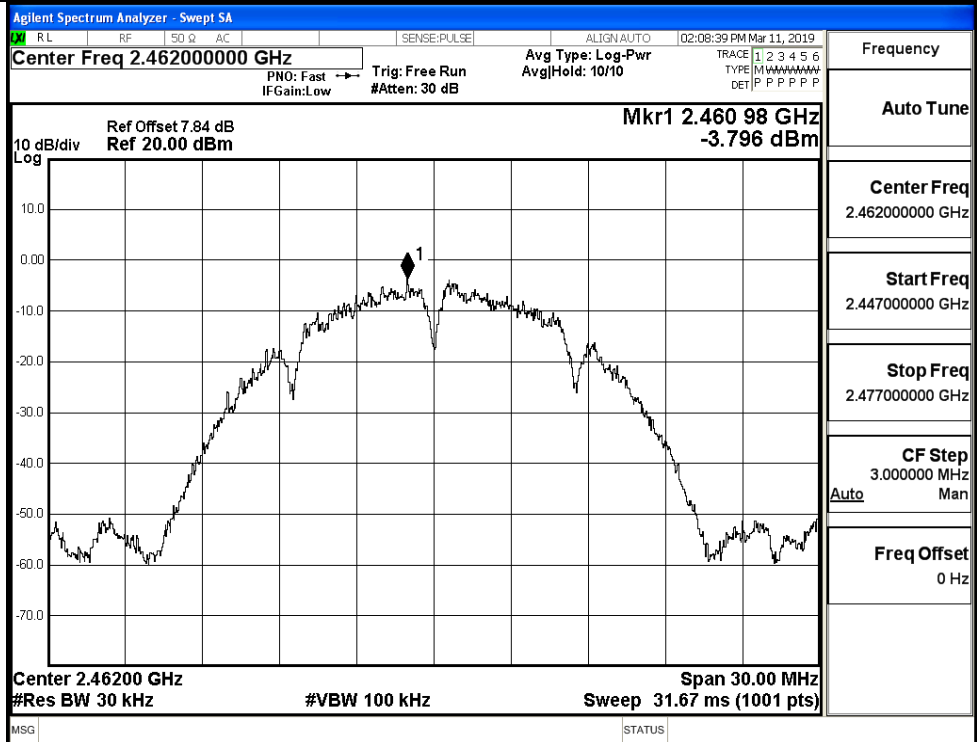
Test Graphs



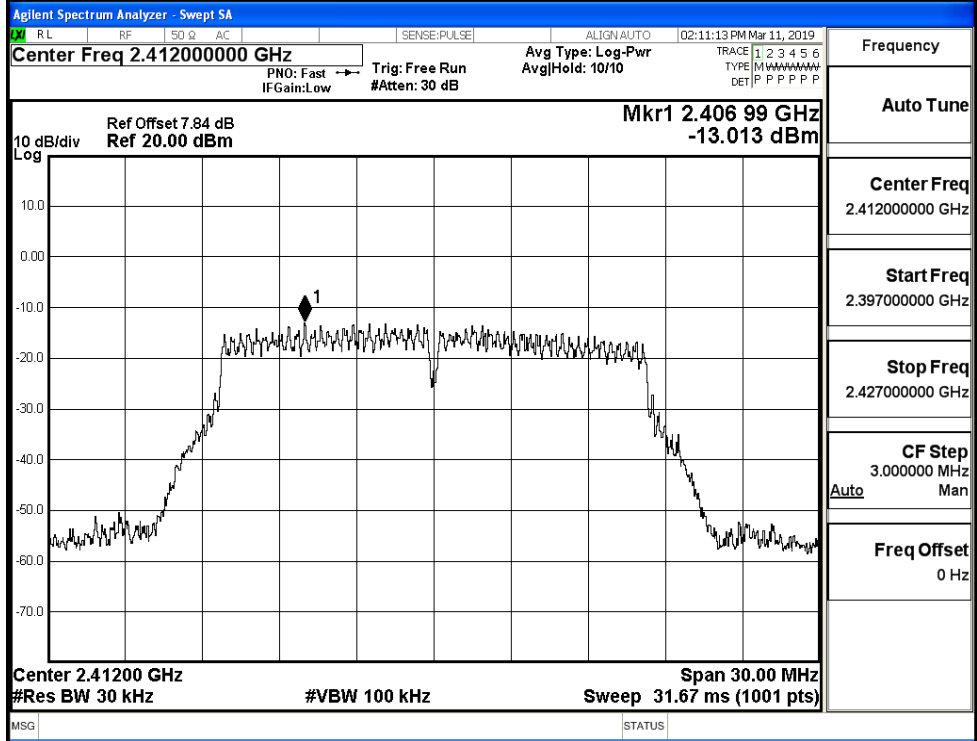
11B/MCH



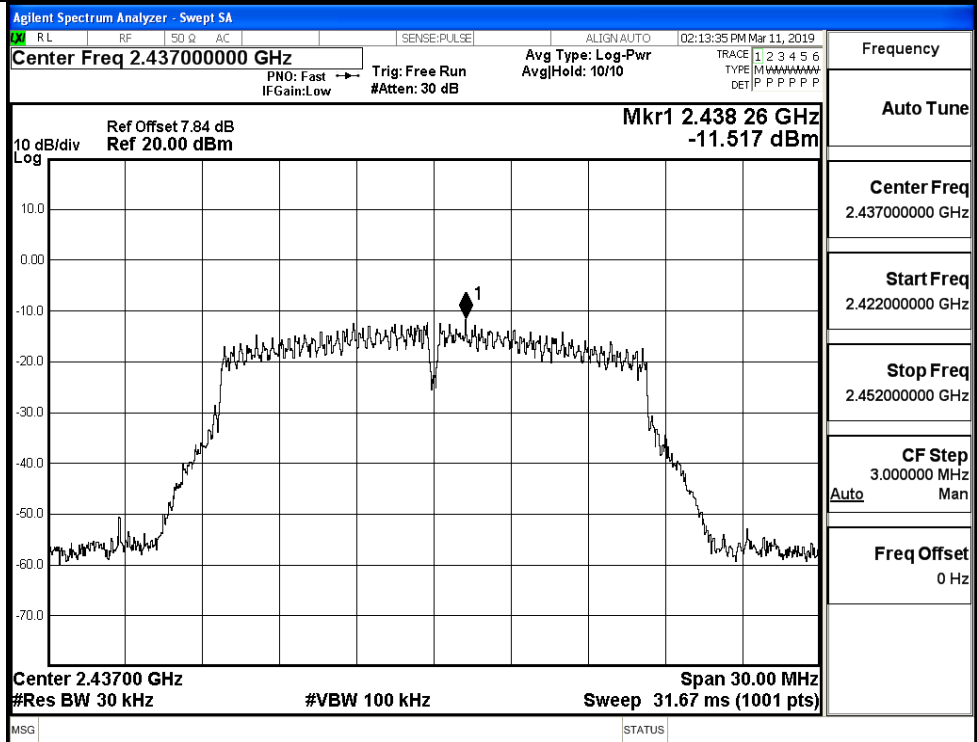
11B/HCH



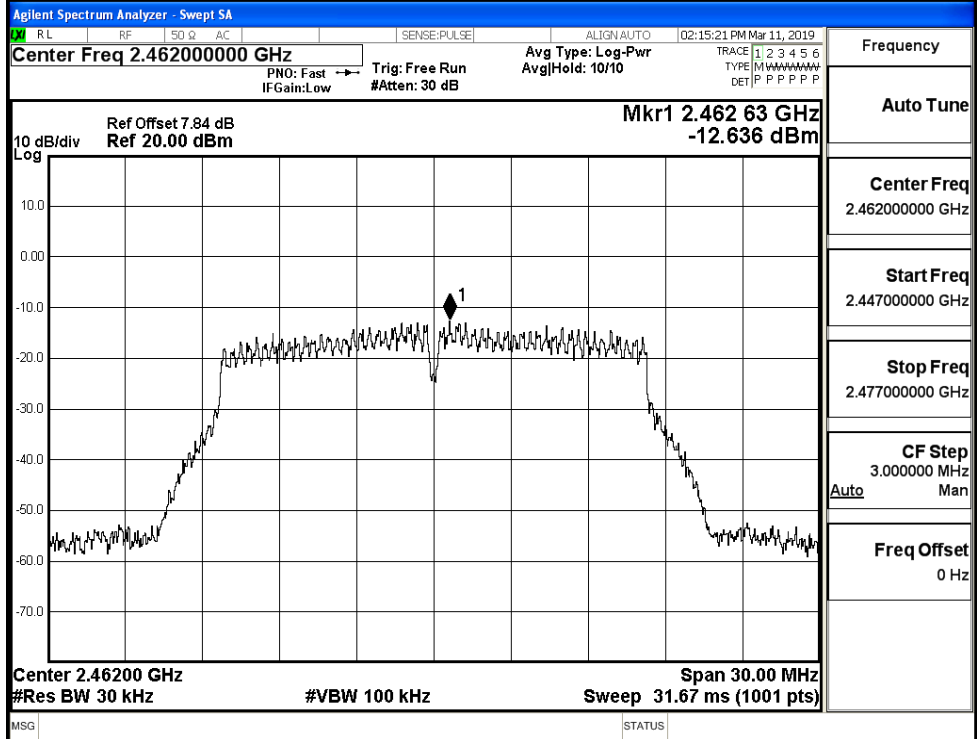
11G/LCH



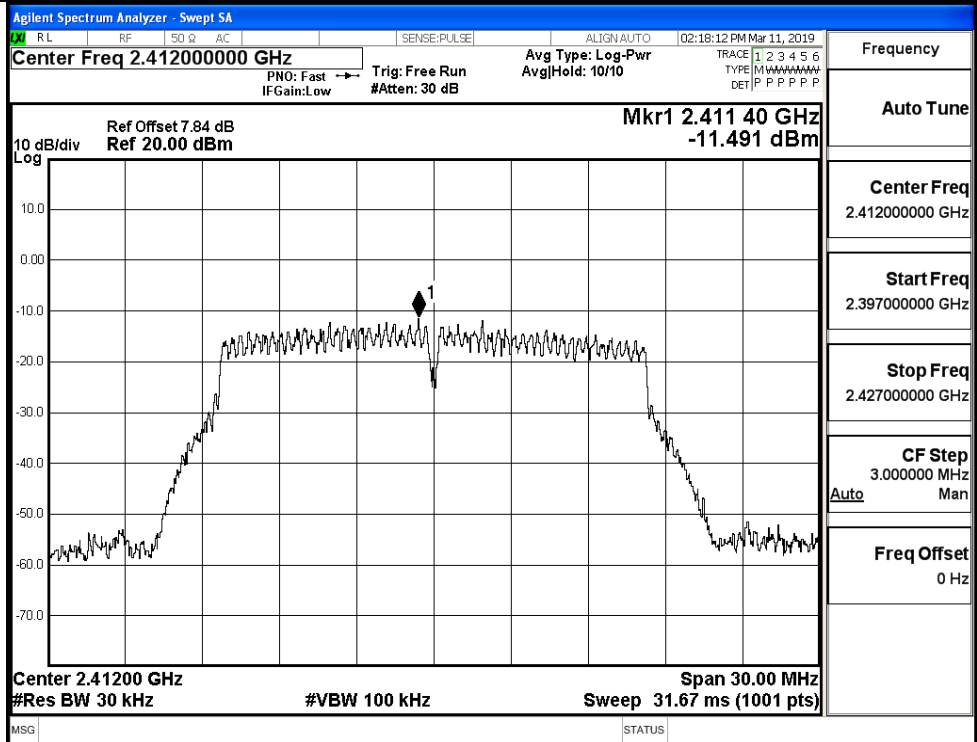
11G/MCH



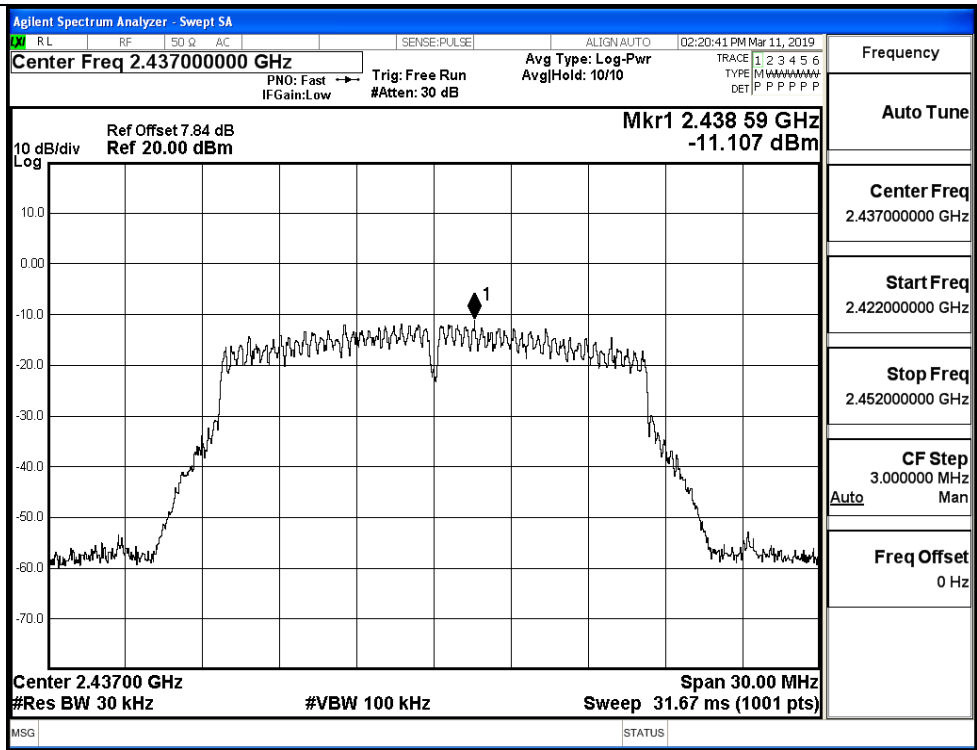
11G/HCH



11N20SISO/LCH

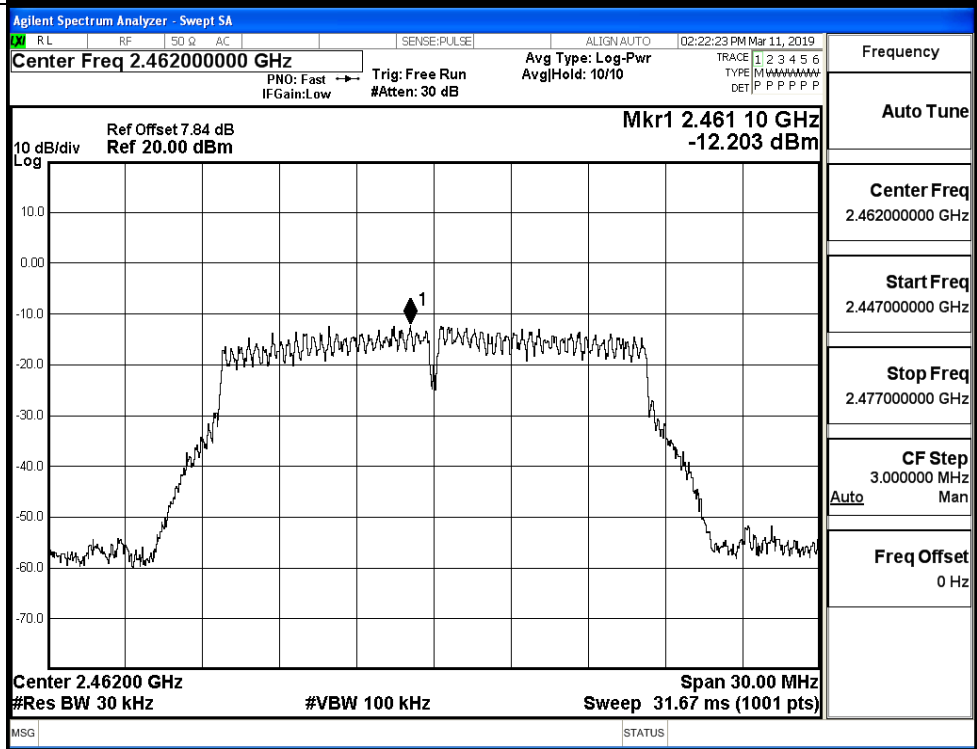


11N20SISO/MCH



Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

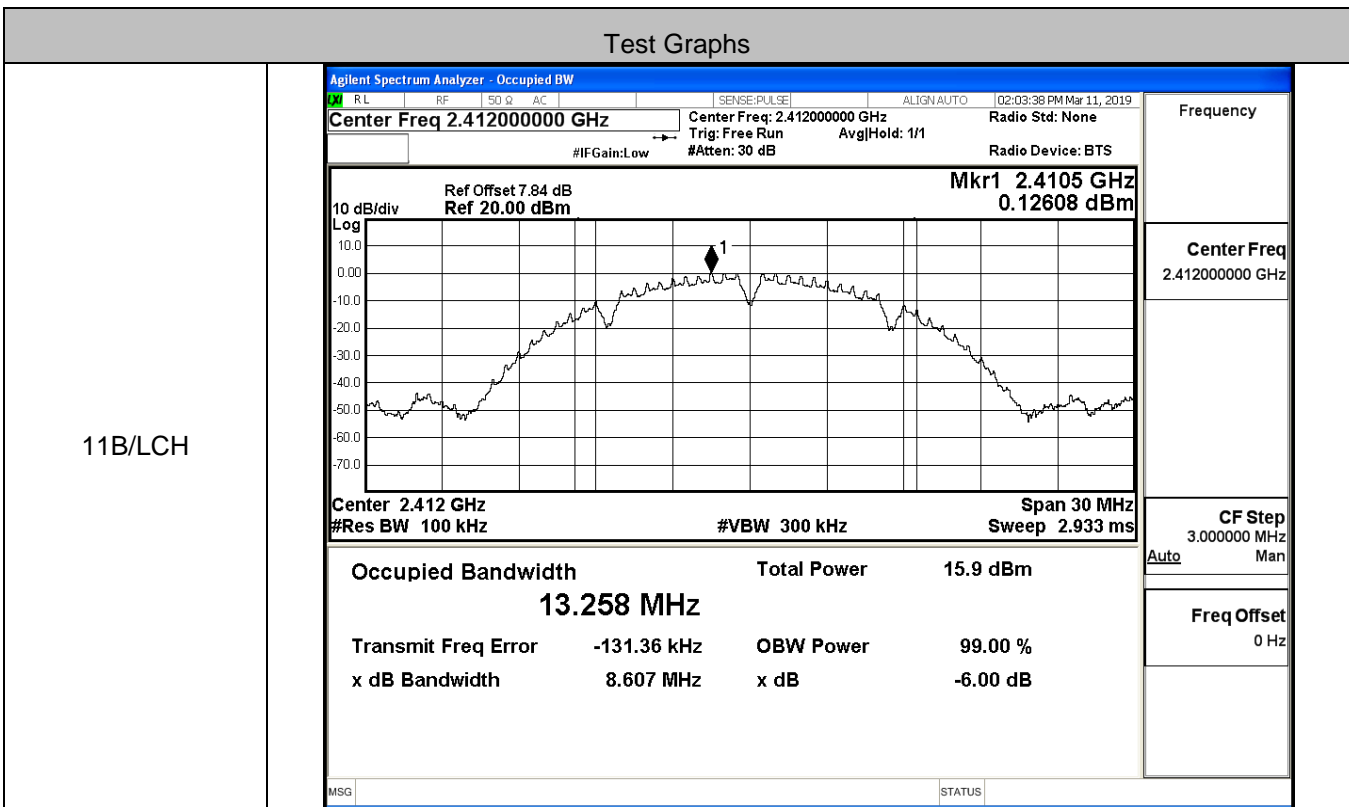
11N20SISO/HCH



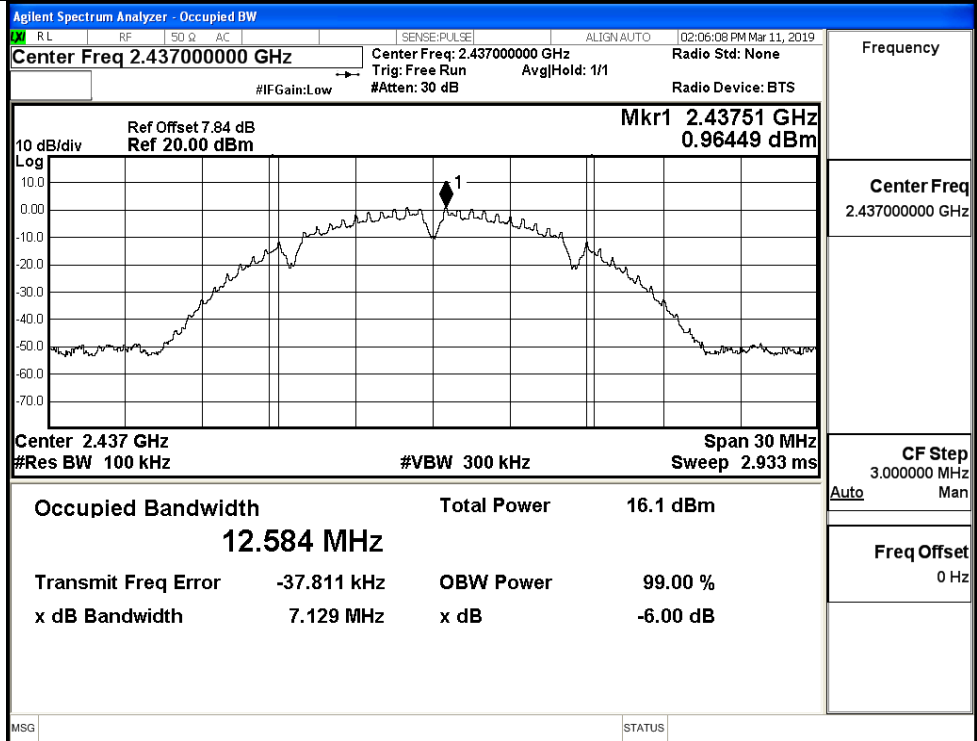
Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

C.4 6dB Bandwidth

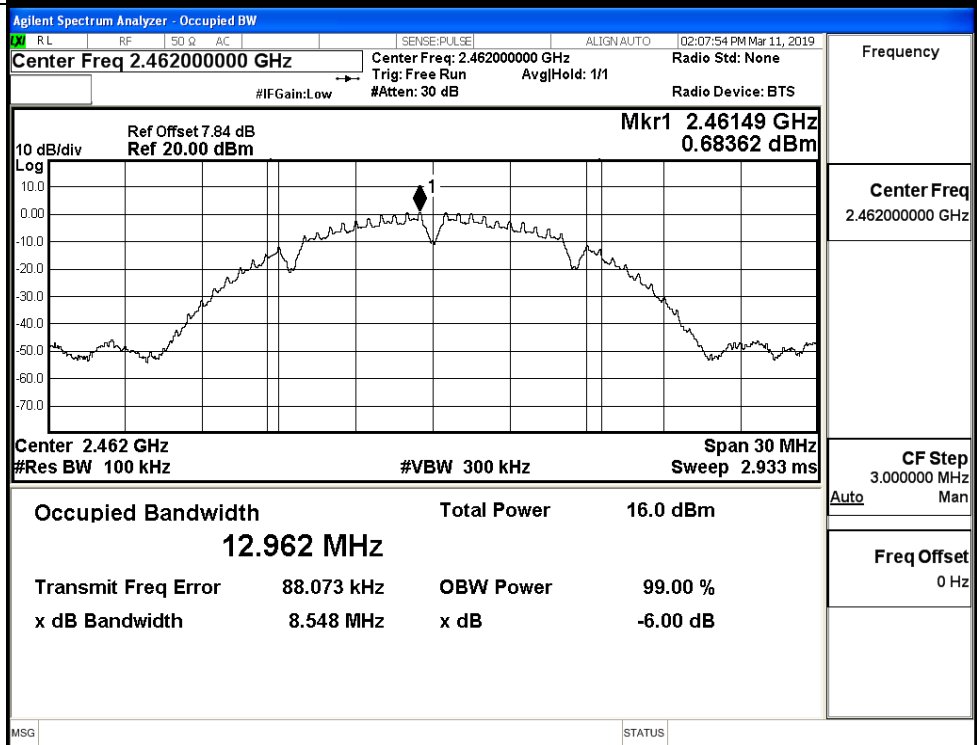
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.607	≥0.5	PASS
	MCH	7.129	≥0.5	PASS
	HCH	8.548	≥0.5	PASS
11G	LCH	16.47	≥0.5	PASS
	MCH	15.79	≥0.5	PASS
	HCH	16.39	≥0.5	PASS
11N20SISO	LCH	16.51	≥0.5	PASS
	MCH	15.91	≥0.5	PASS
	HCH	16.46	≥0.5	PASS



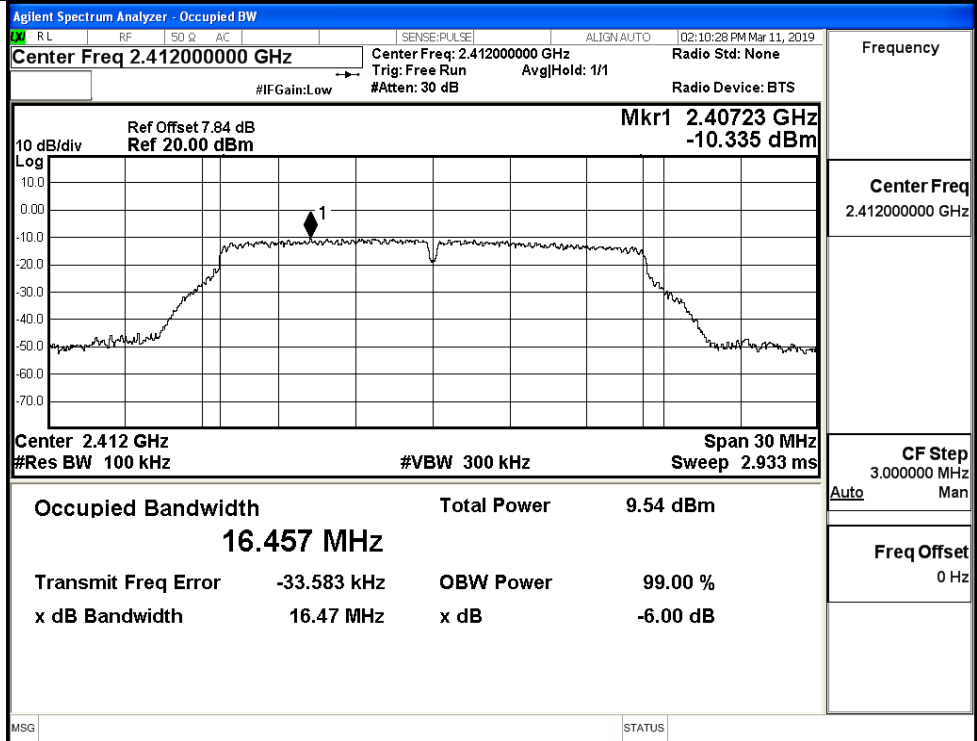
11B/MCH



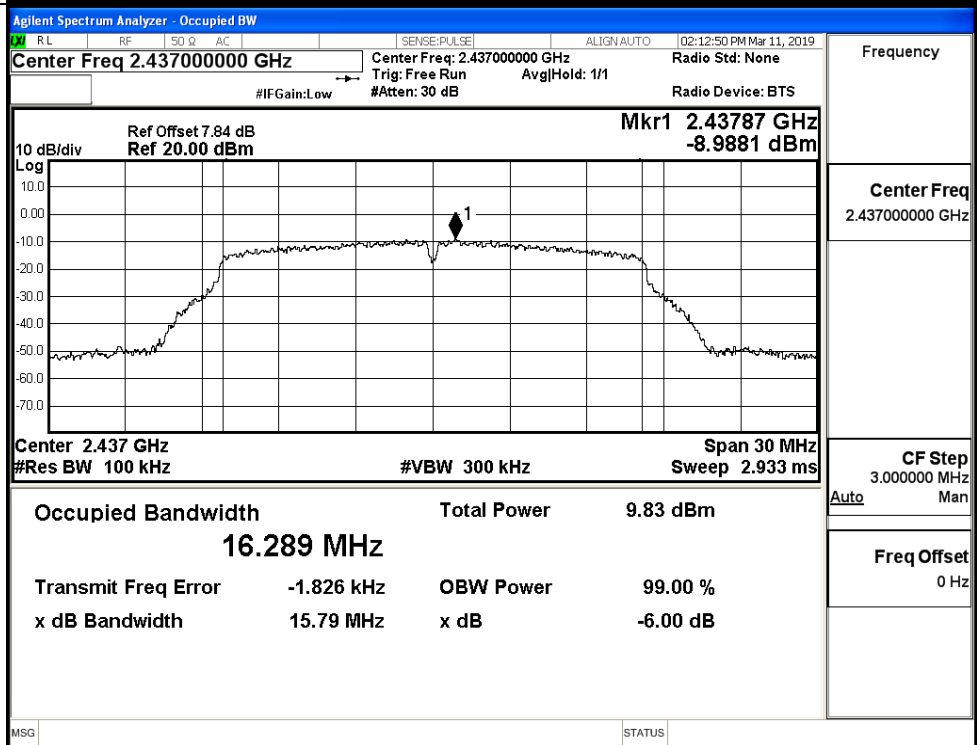
11B/HCH



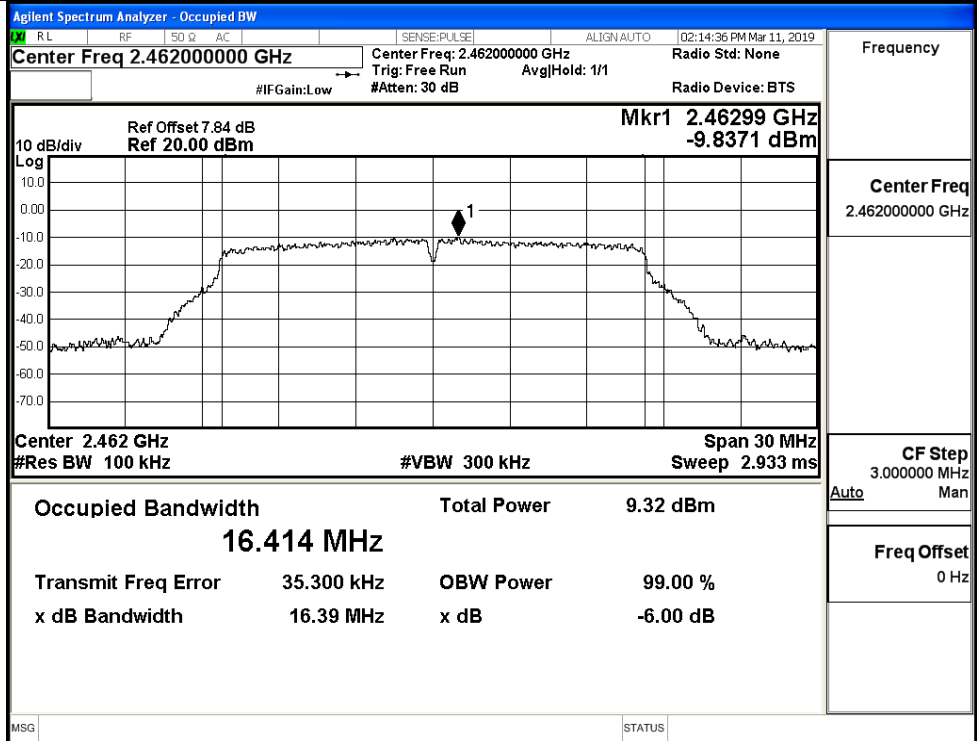
11G/LCH



11G/MCH

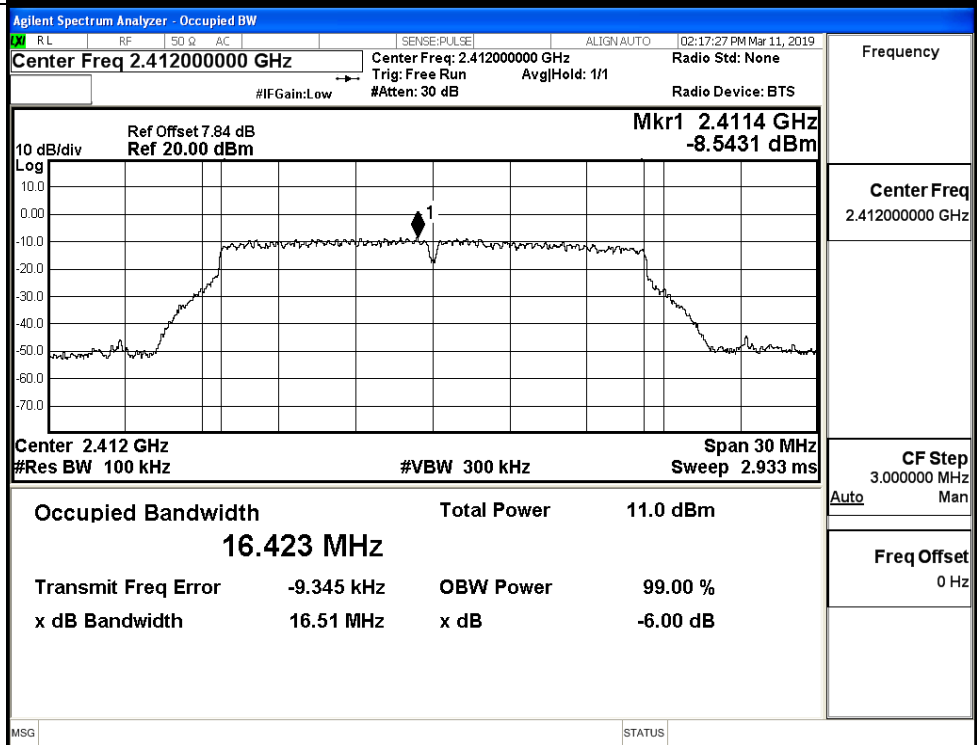


11G/HCH



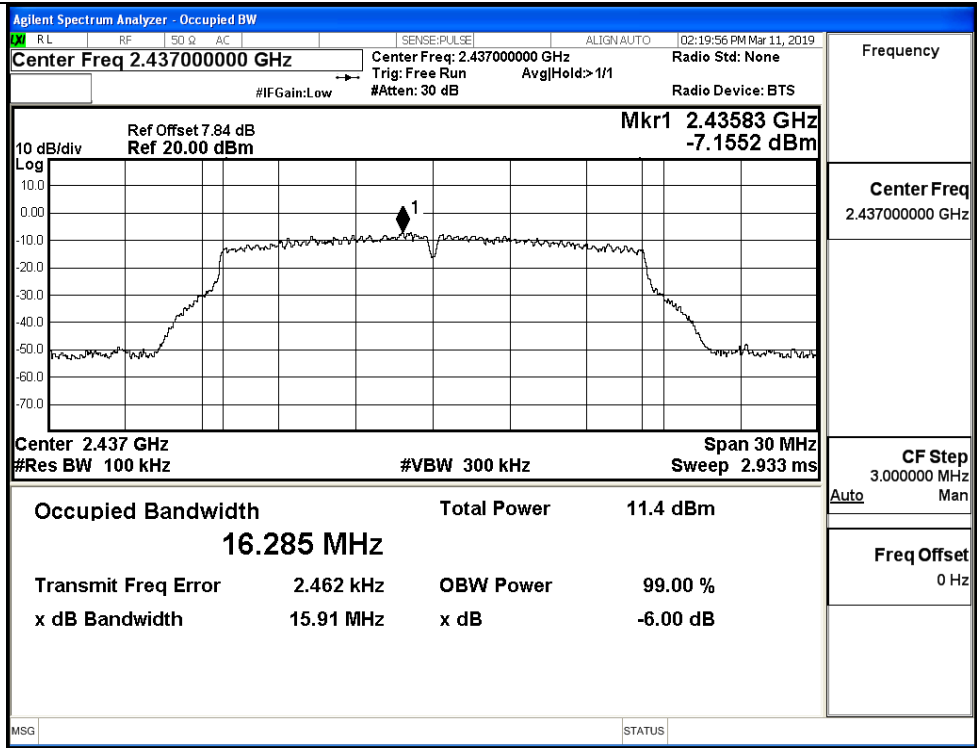
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

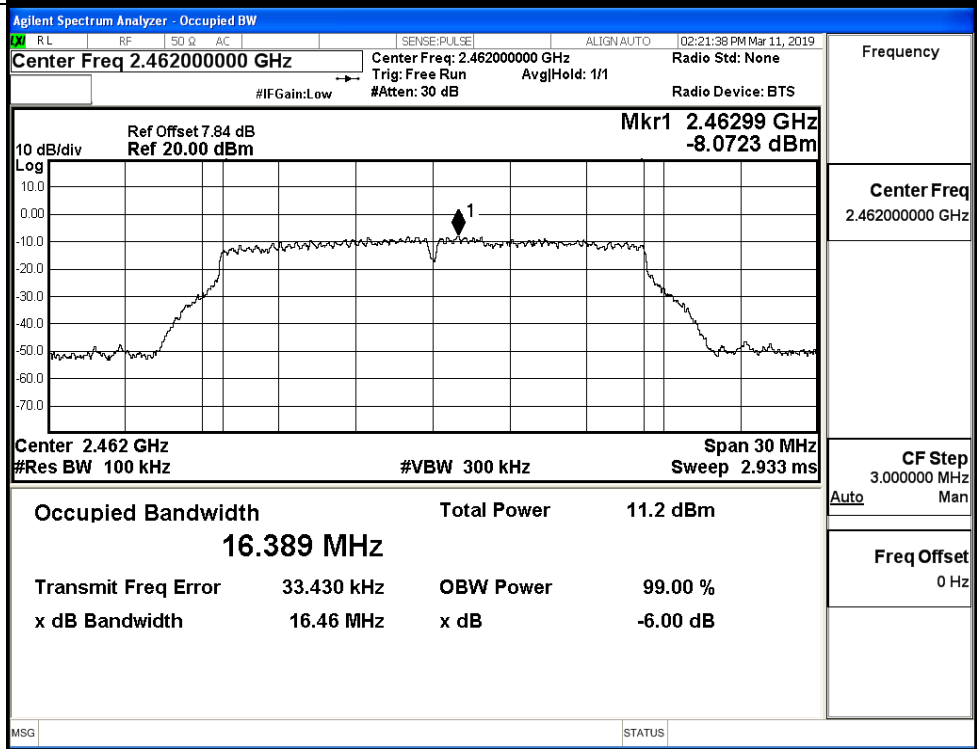


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH



11N20SISO/HCH

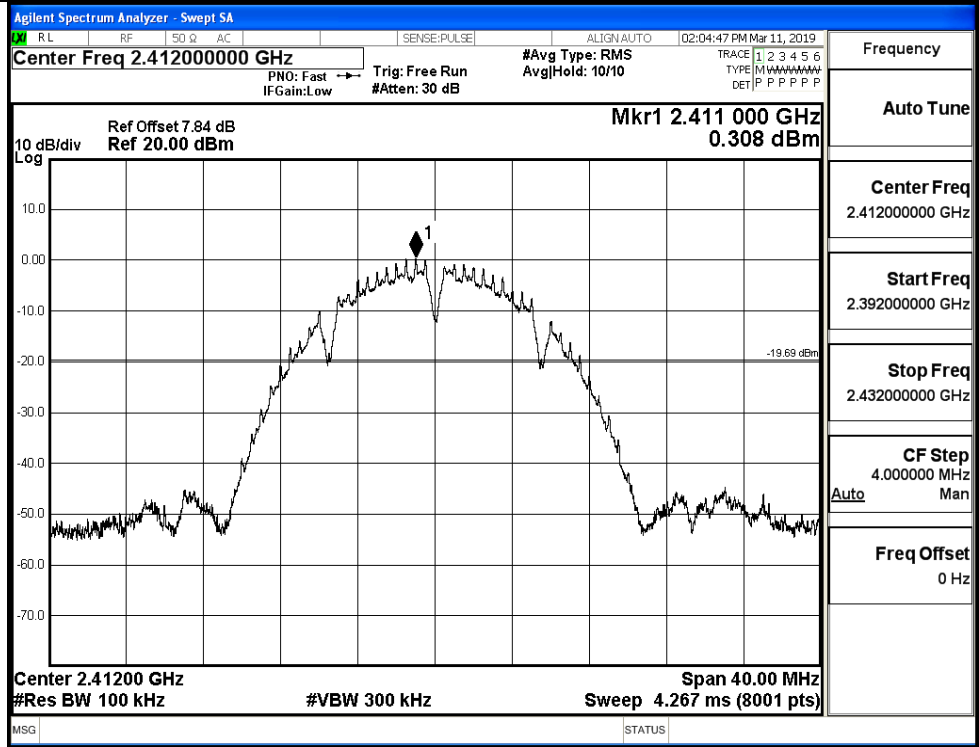


C.5 RF Conducted Spurious Emissions

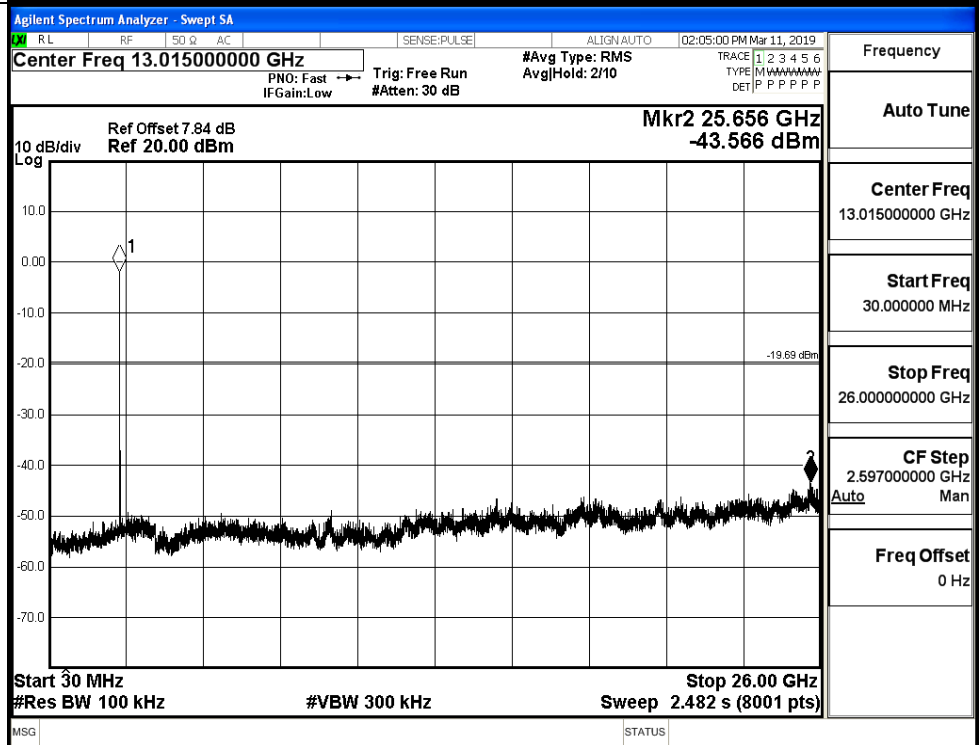
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.308	-43.566	-19.692	PASS
	MCH	0.712	-44.094	-19.288	PASS
	HCH	0.492	-43.822	-19.508	PASS
11G	LCH	-10.581	-43.984	-30.581	PASS
	MCH	-9.685	-43.858	-29.685	PASS
	HCH	-10.565	-44.294	-30.565	PASS
11N20SISO	LCH	-8.048	-44.529	-28.048	PASS
	MCH	-7.729	-43.664	-27.729	PASS
	HCH	-7.477	-43.916	-27.477	PASS

11B_LCH_Graphs

Pref/11B/LCH

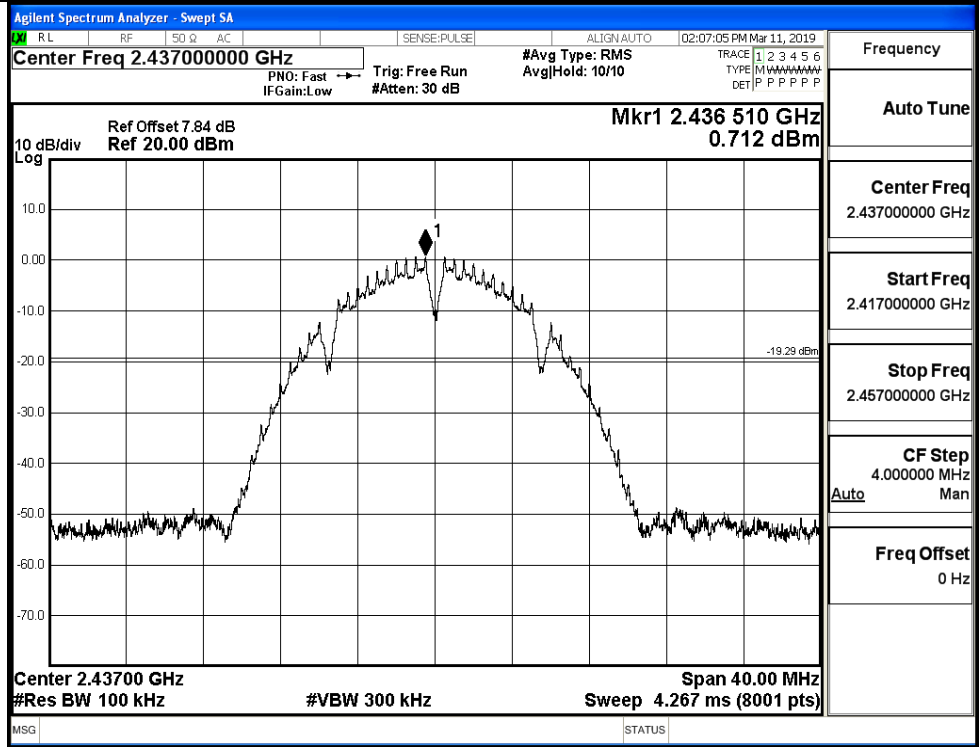


Puw/11B/LCH

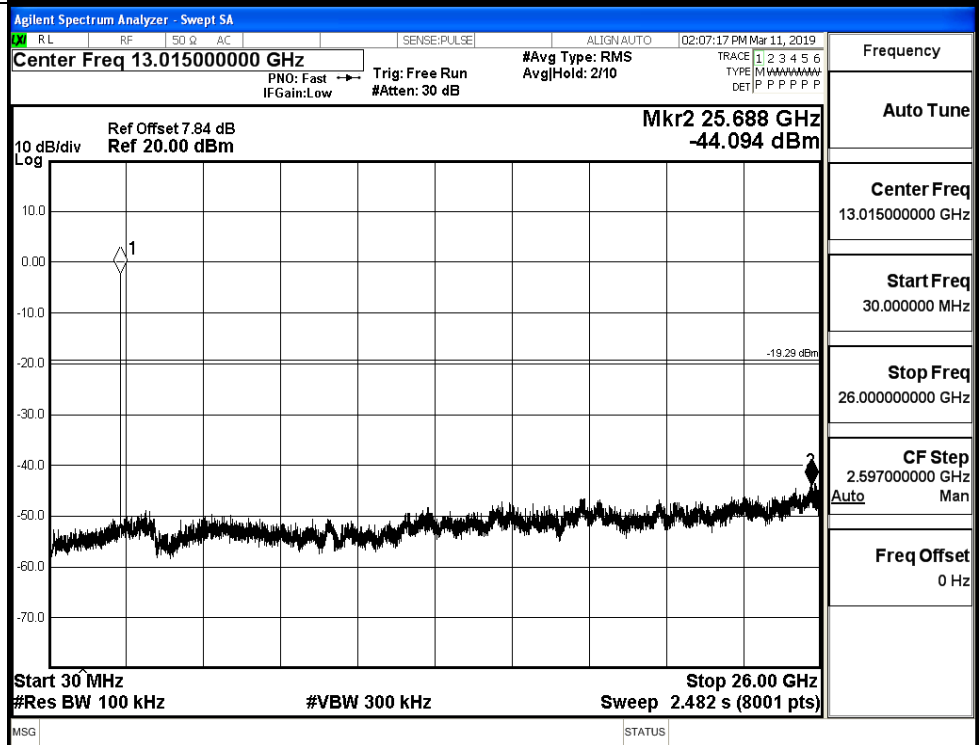


11B_MCH_Graphs

Pref/11B/MCH

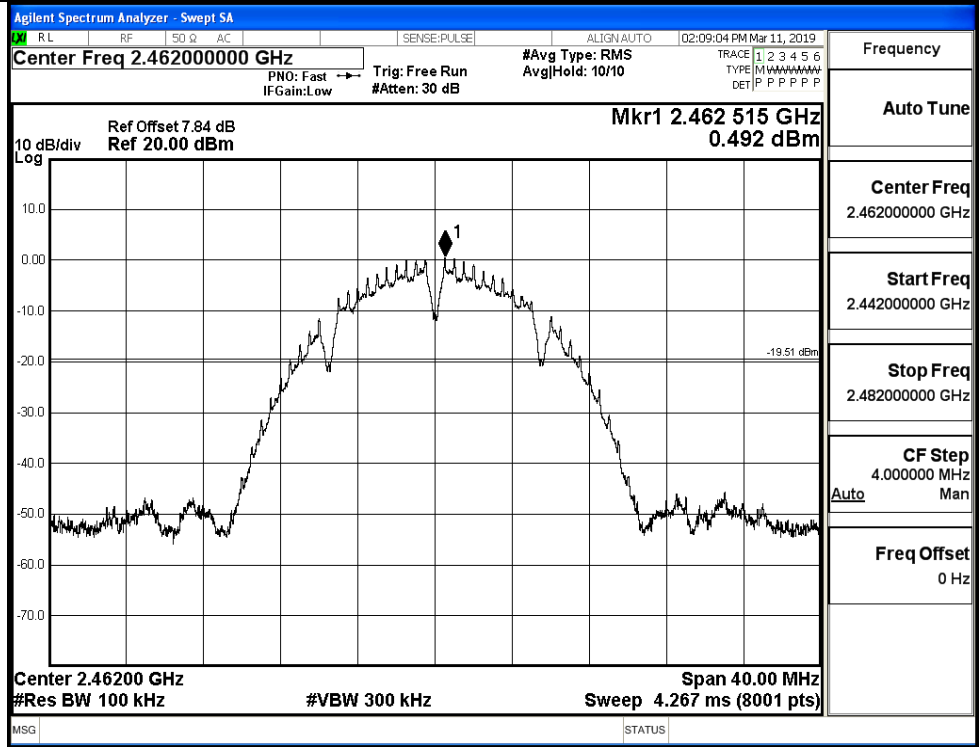


Puw/11B/MCH

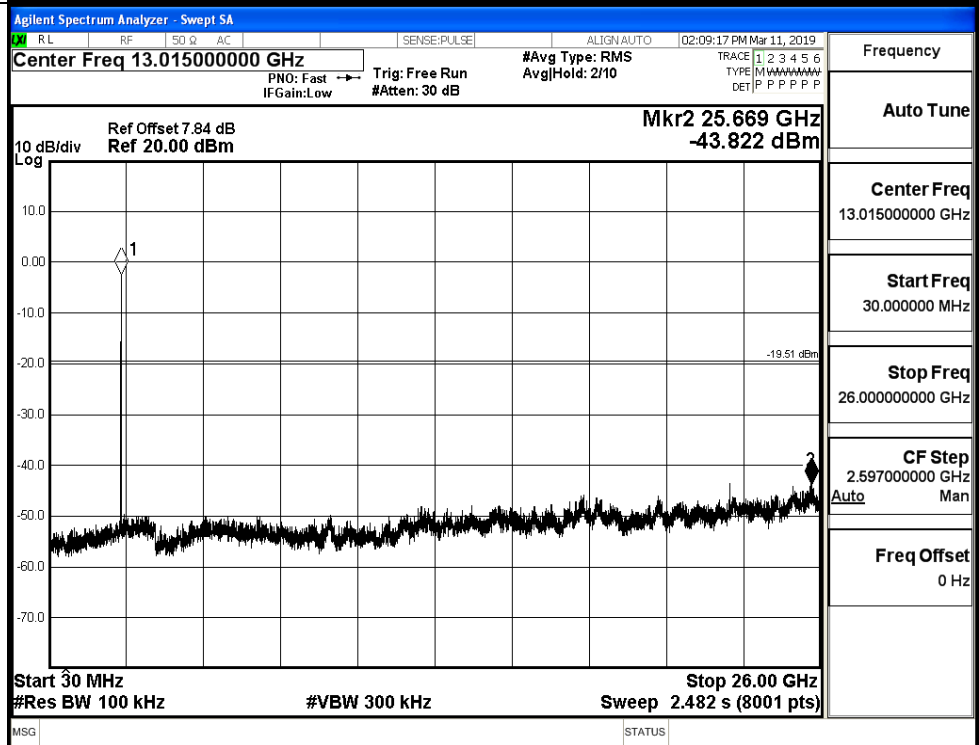


11B_HCH_Graphs

Pref/11B/HCH

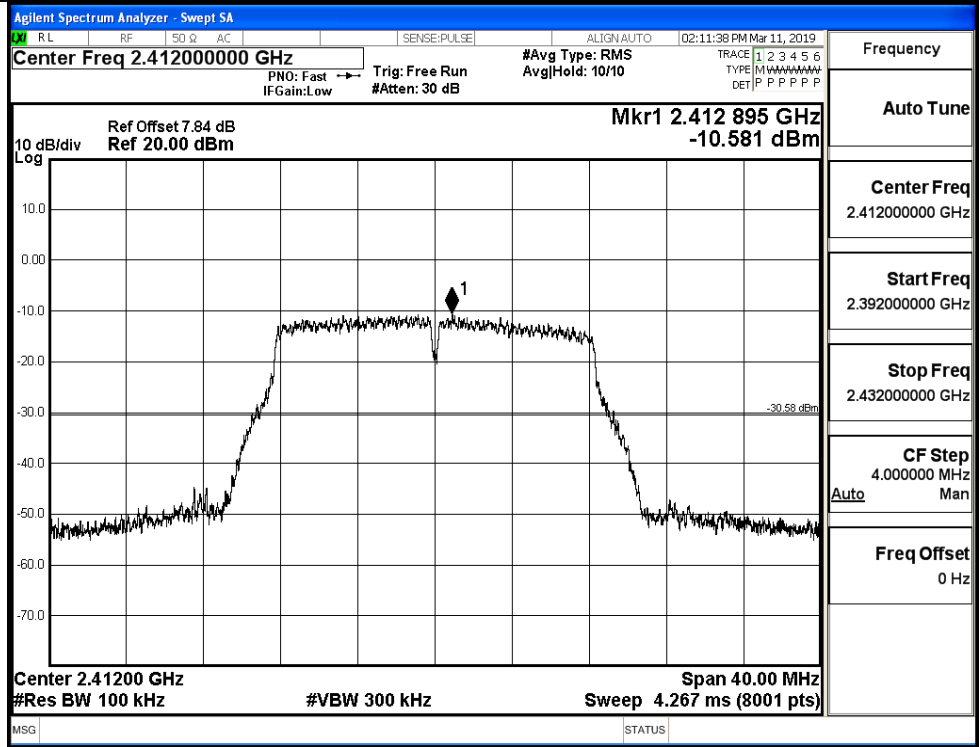


Puw/11B/HCH

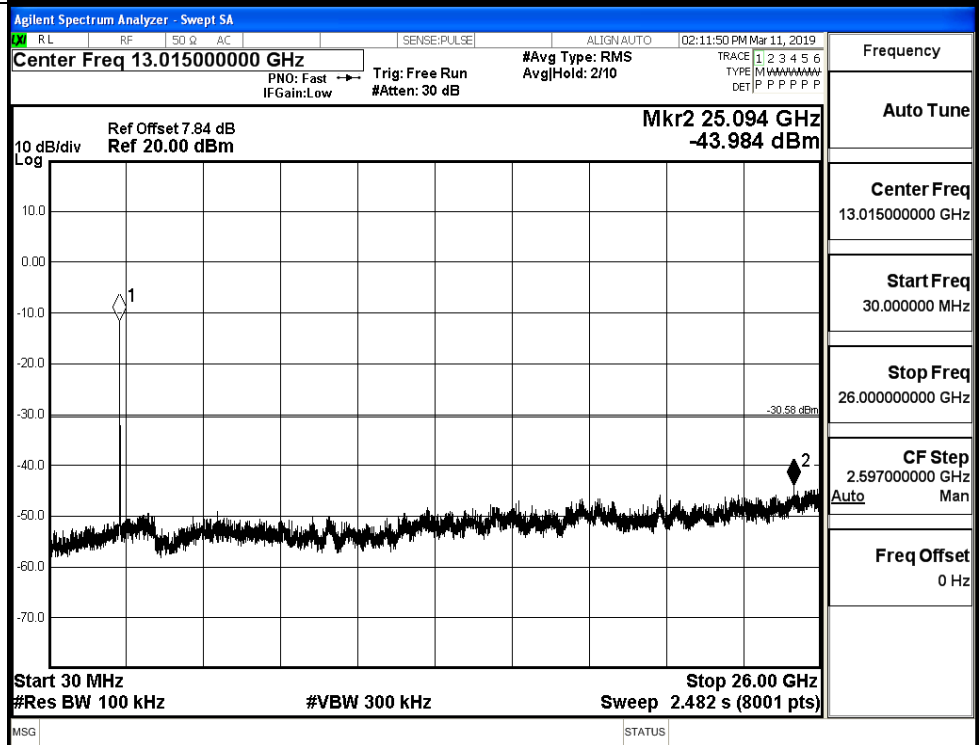


11G_LCH_Graphs

Pref/11G/LCH

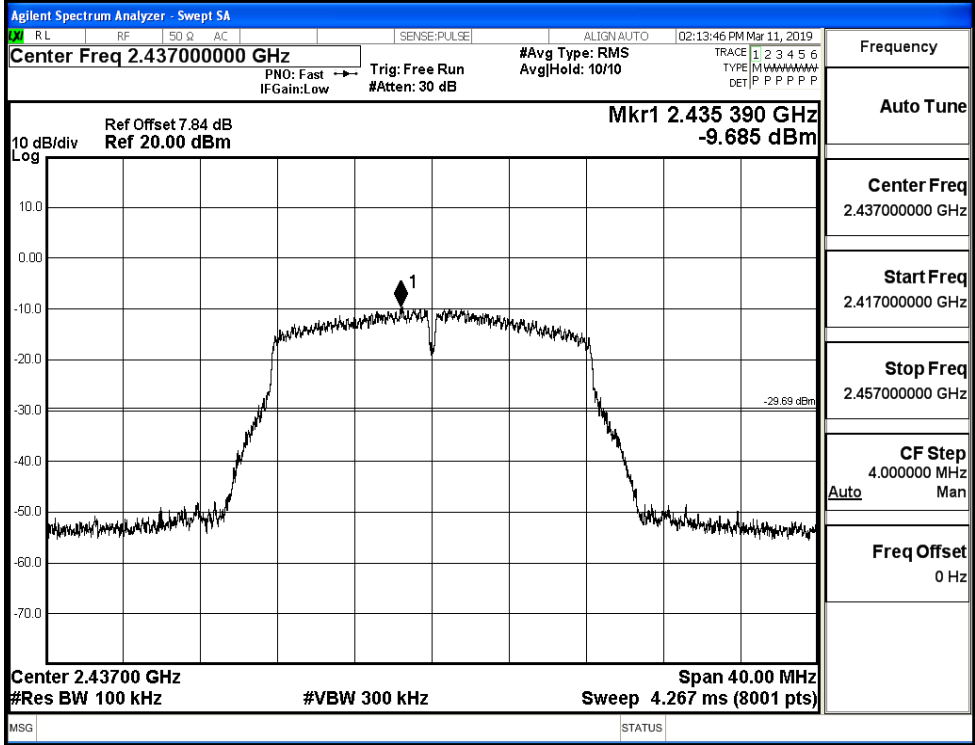


Puw/11G/LCH

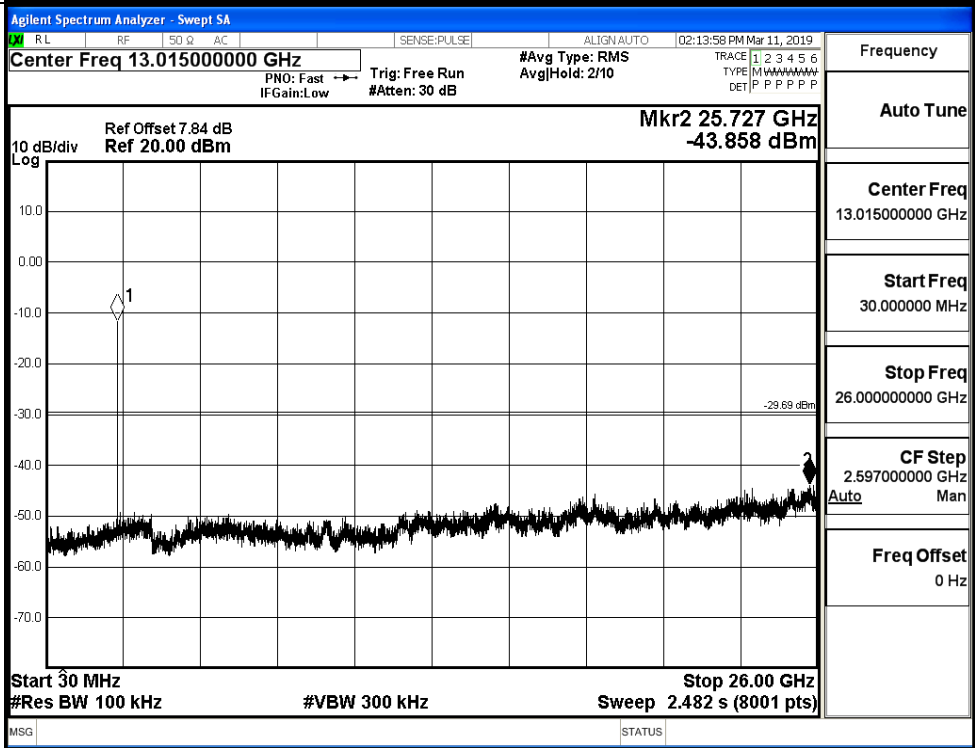


11G_MCH_Graphs

Pref/11G/MCH

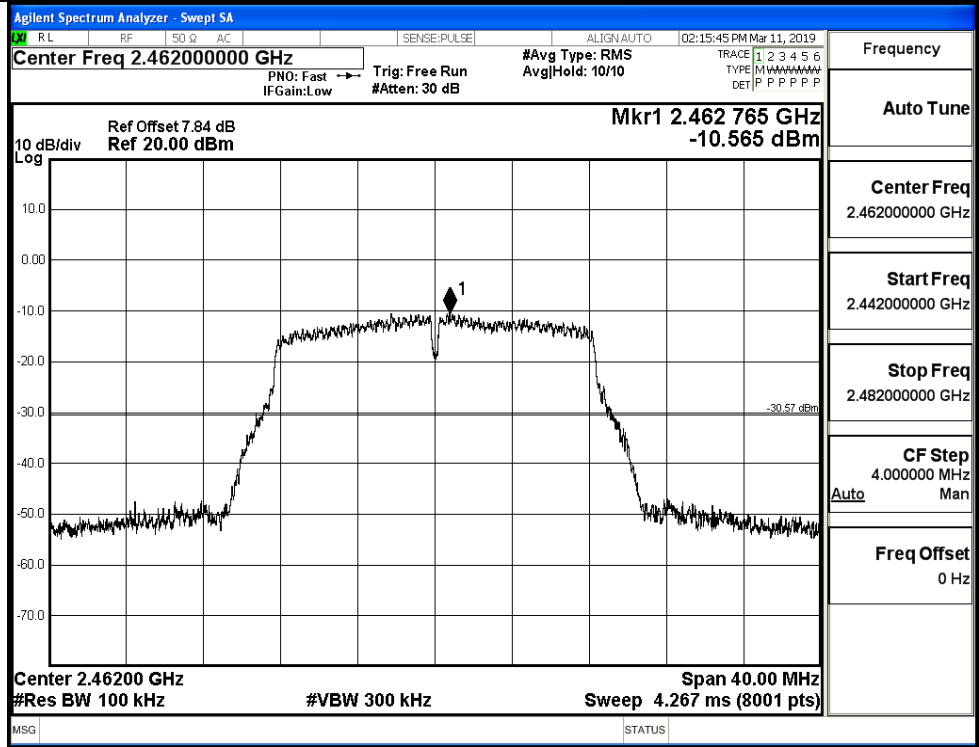


Puw/11G/MCH

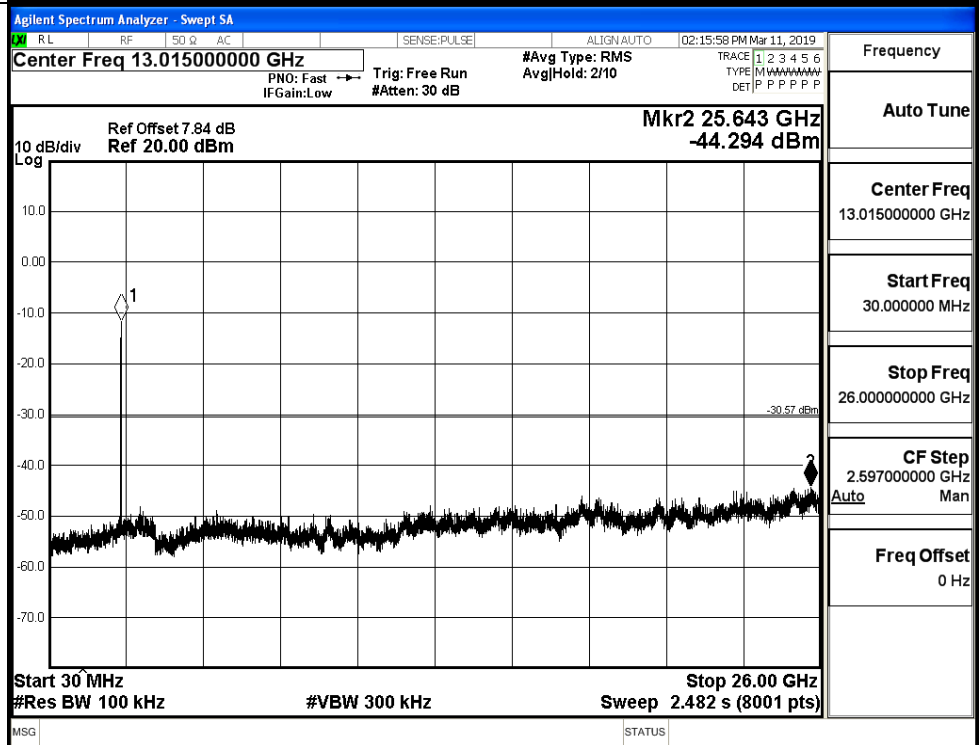


11G_HCH_Graphs

Pref/11G/HCH

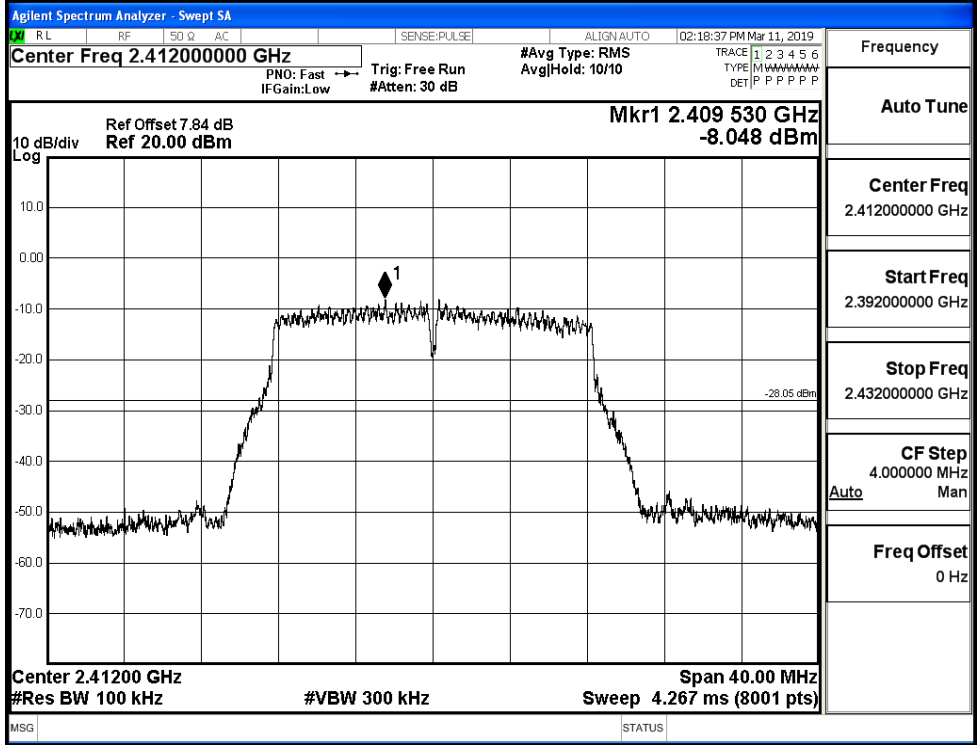


Puw/11G/HCH

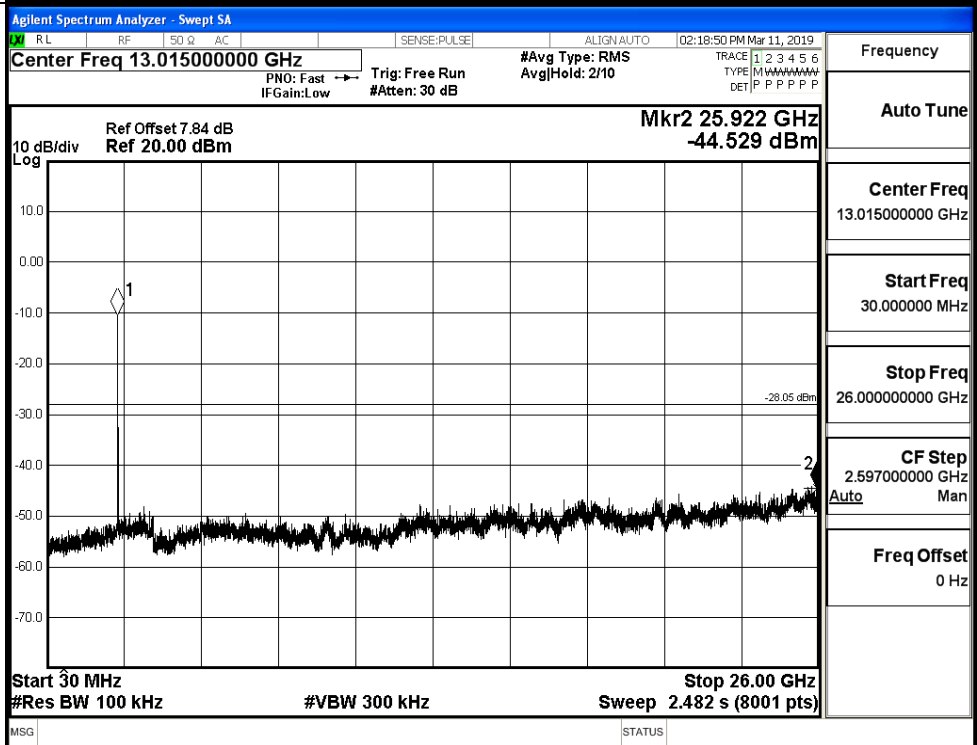


11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH

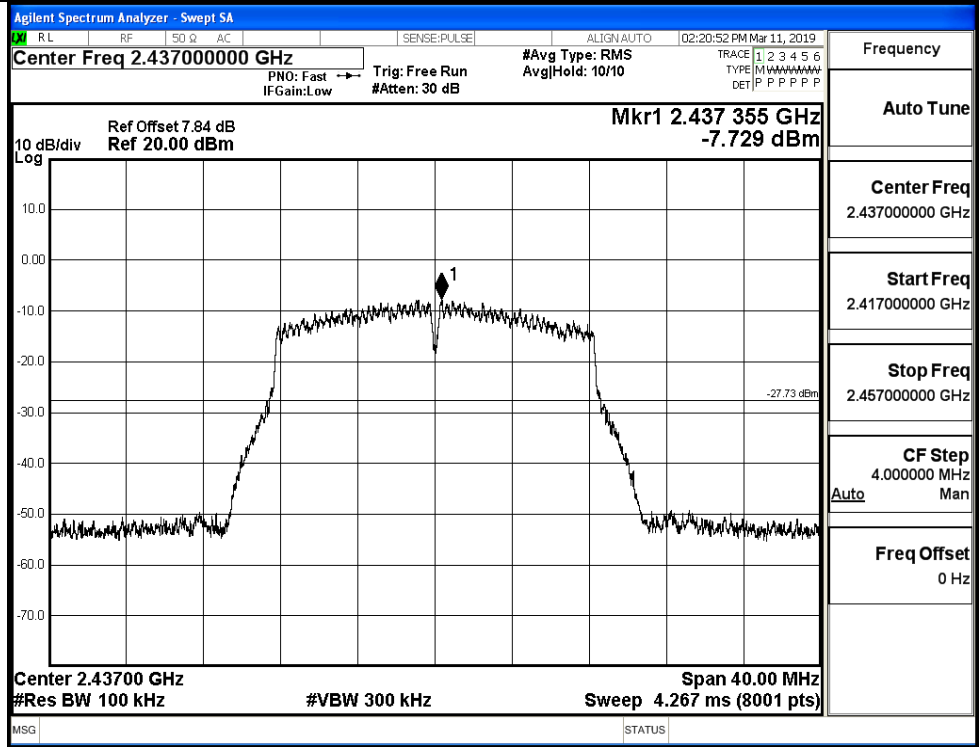


Puw/11N20
SISO/LCH

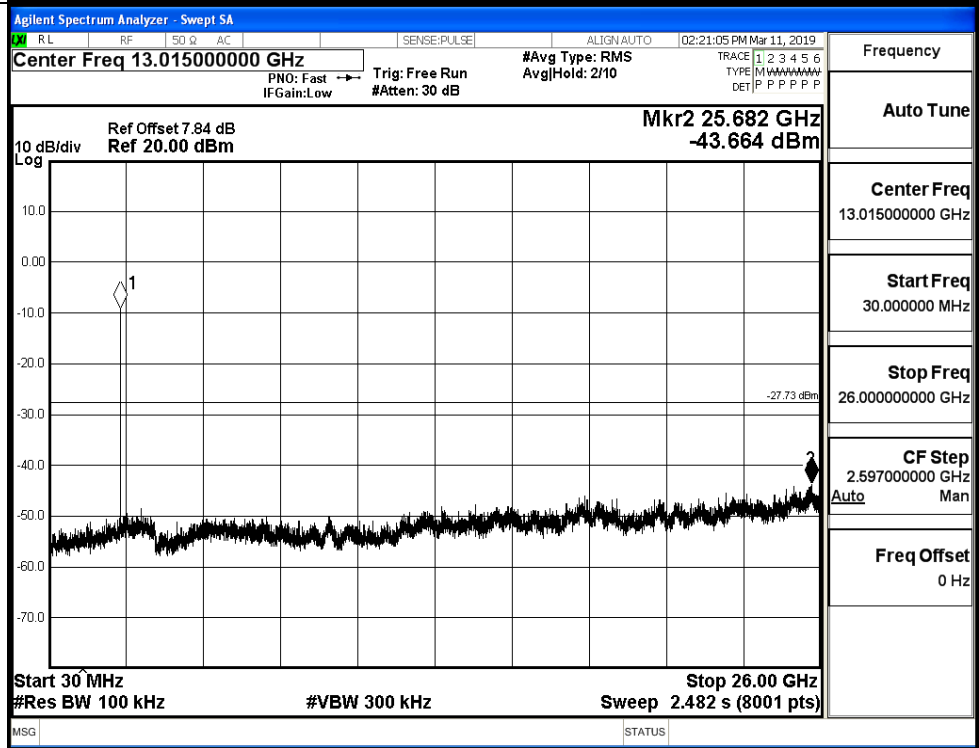


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

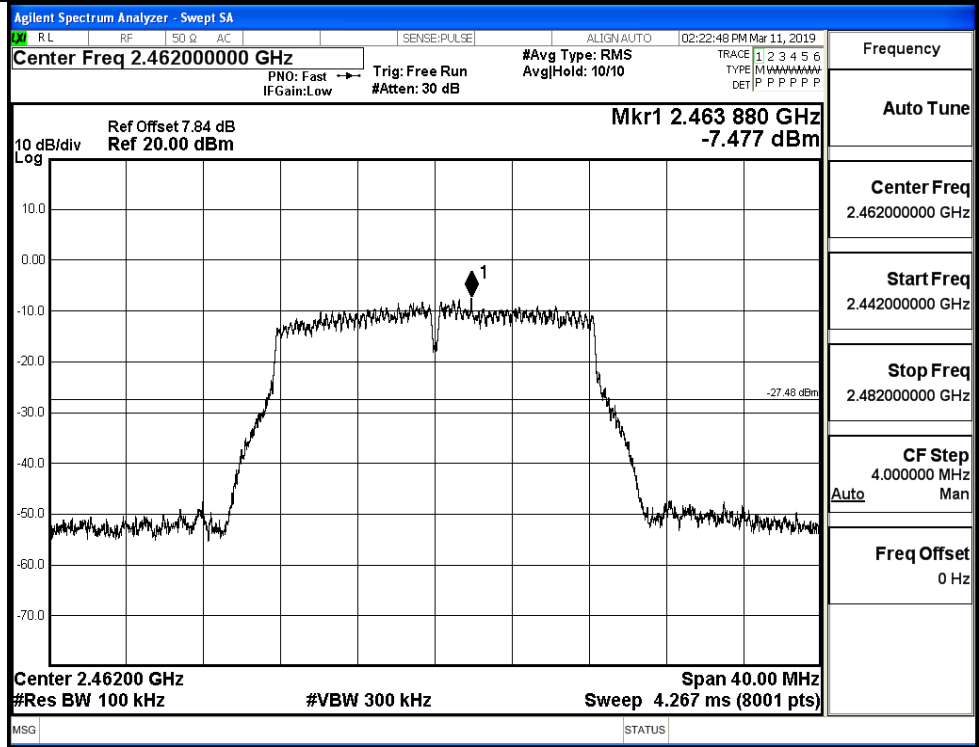


Puw/11N20
SISO/MCH

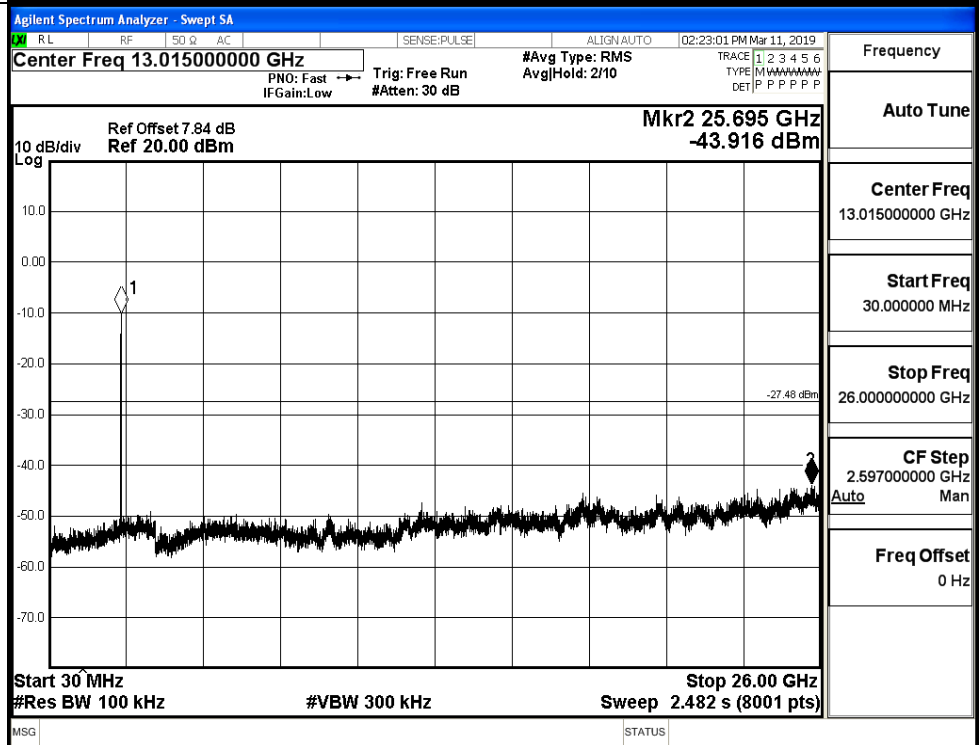


11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH

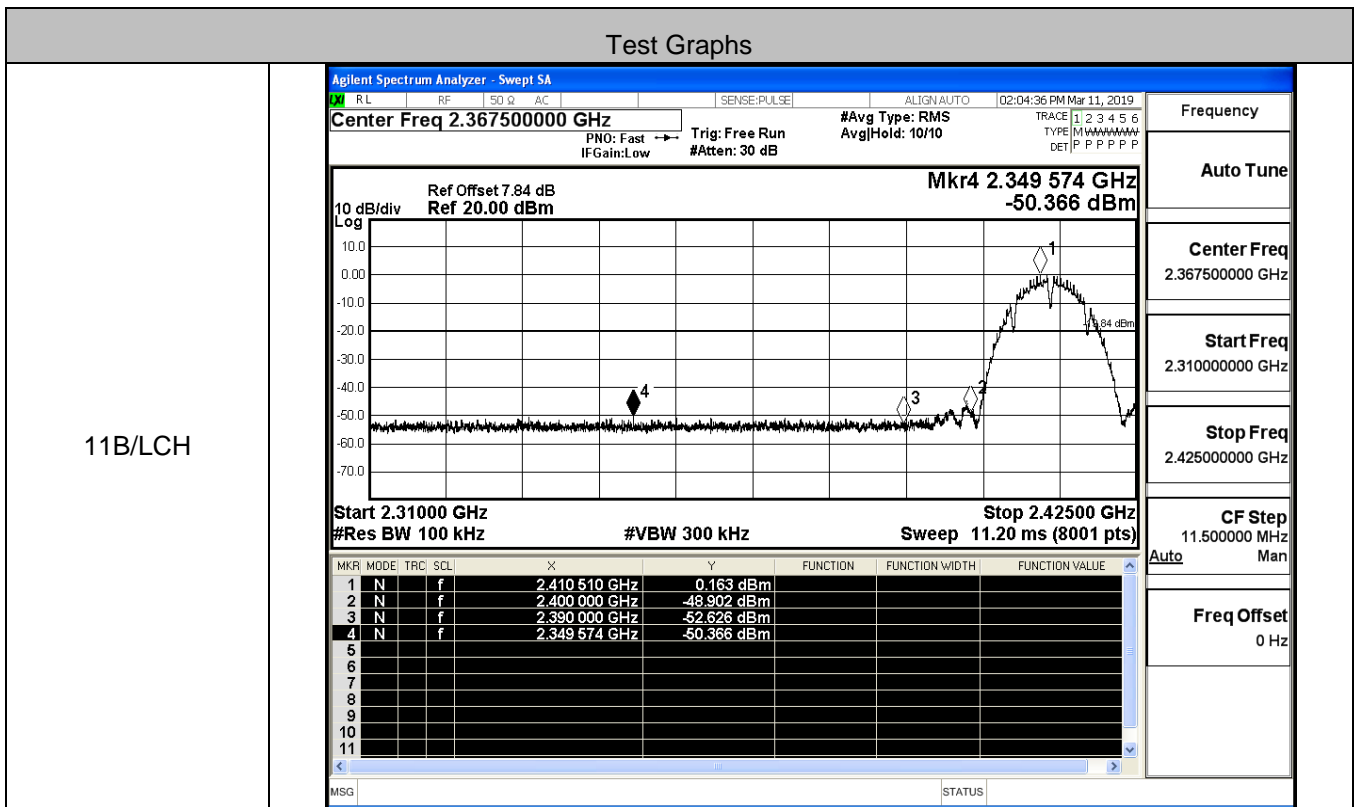


Puw/11N20
SISO/HCH

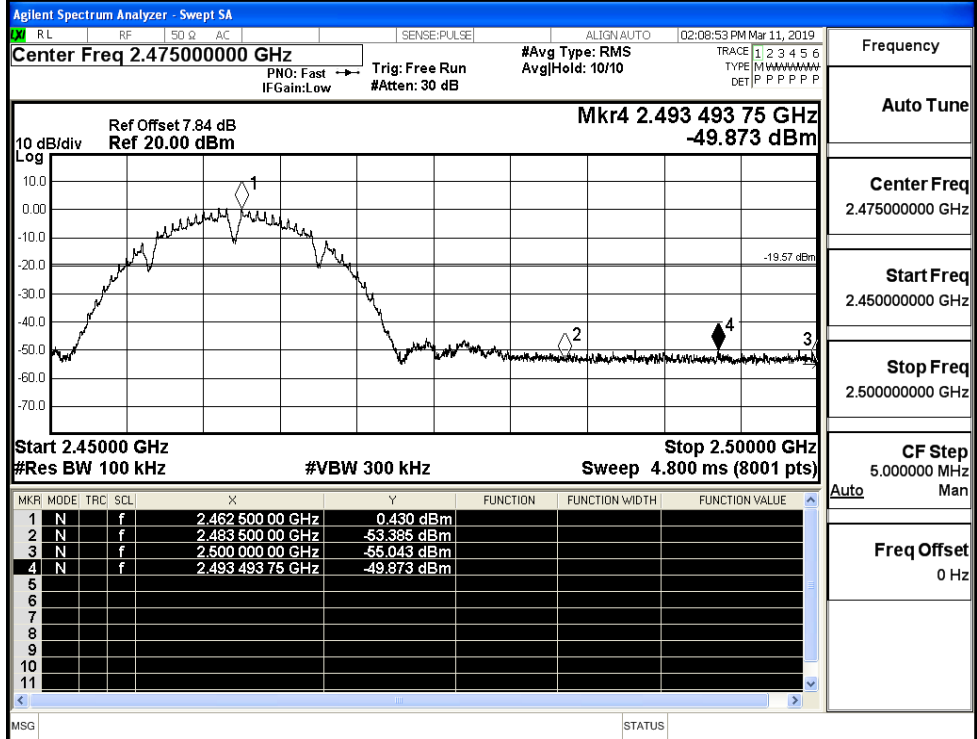


C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.163	-50.366	-19.84	PASS
	HCH	0.430	-49.873	-19.57	PASS
11G	LCH	-10.097	-50.102	-30.1	PASS
	HCH	-9.888	-50.451	-29.89	PASS
11N20SISO	LCH	-8.855	-50.588	-28.86	PASS
	HCH	-8.056	-50.029	-28.06	PASS

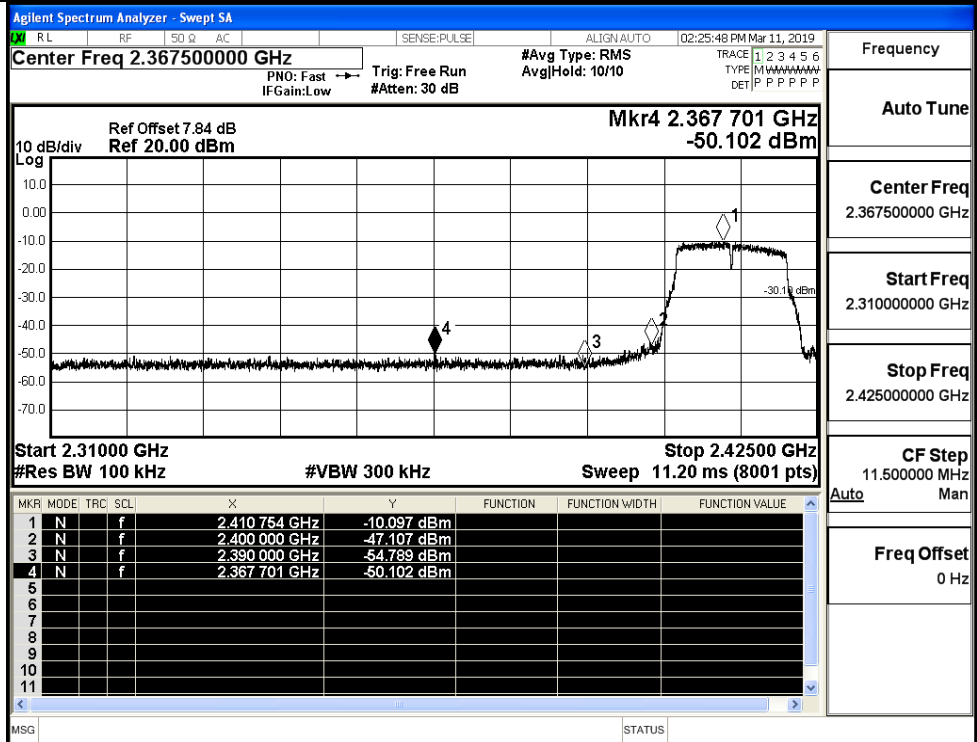


11B/HCH



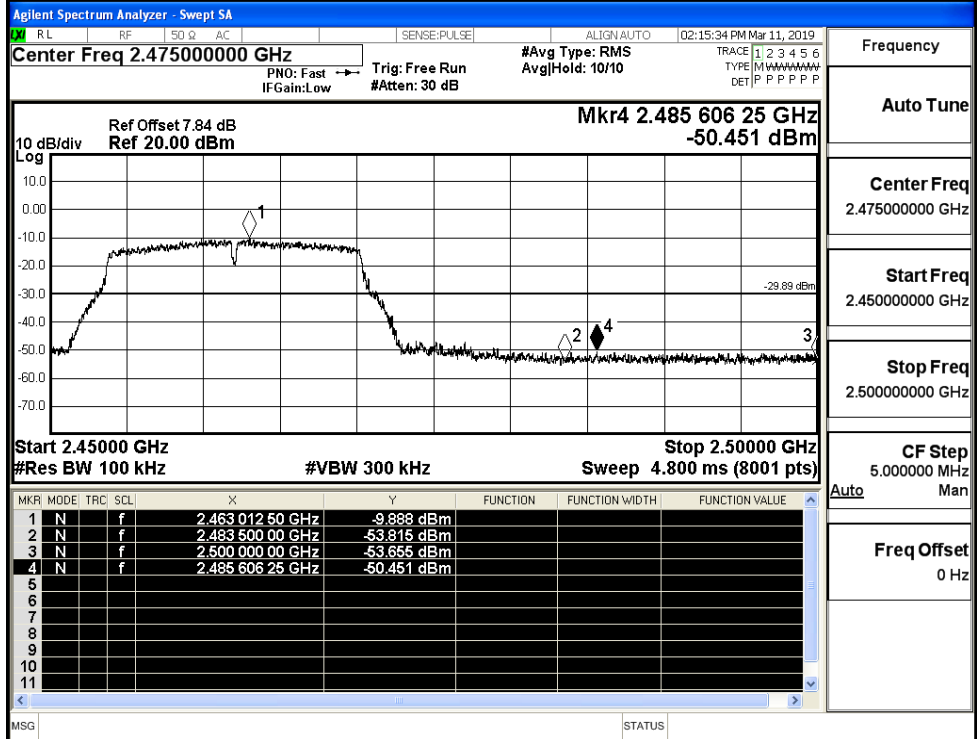
Frequency	
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11G/LCH



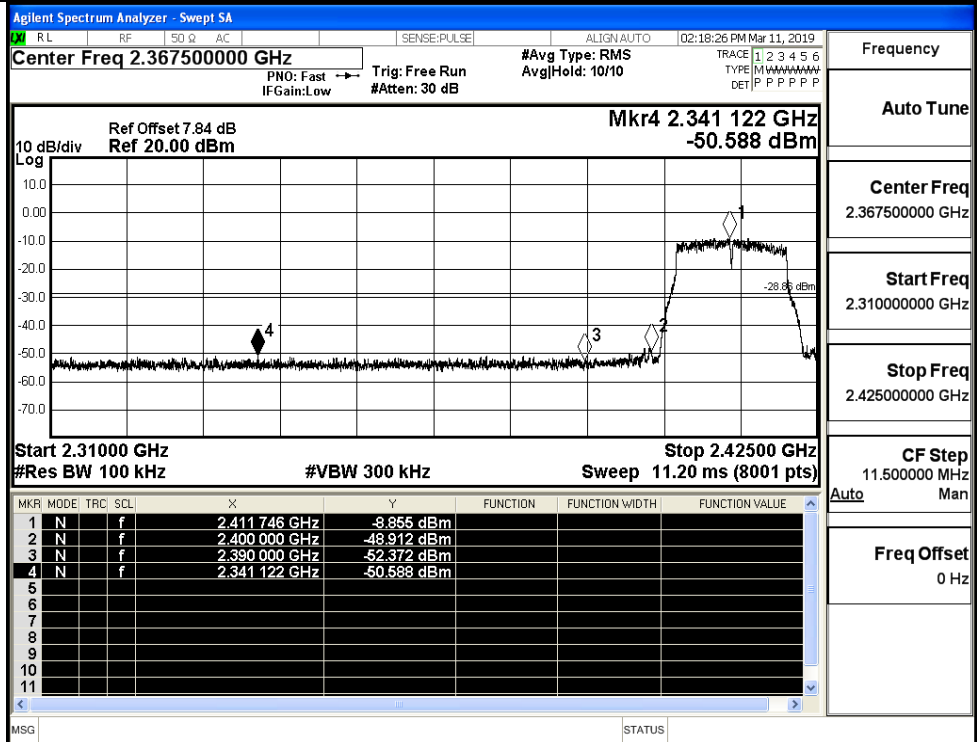
Frequency	
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11G/HCH



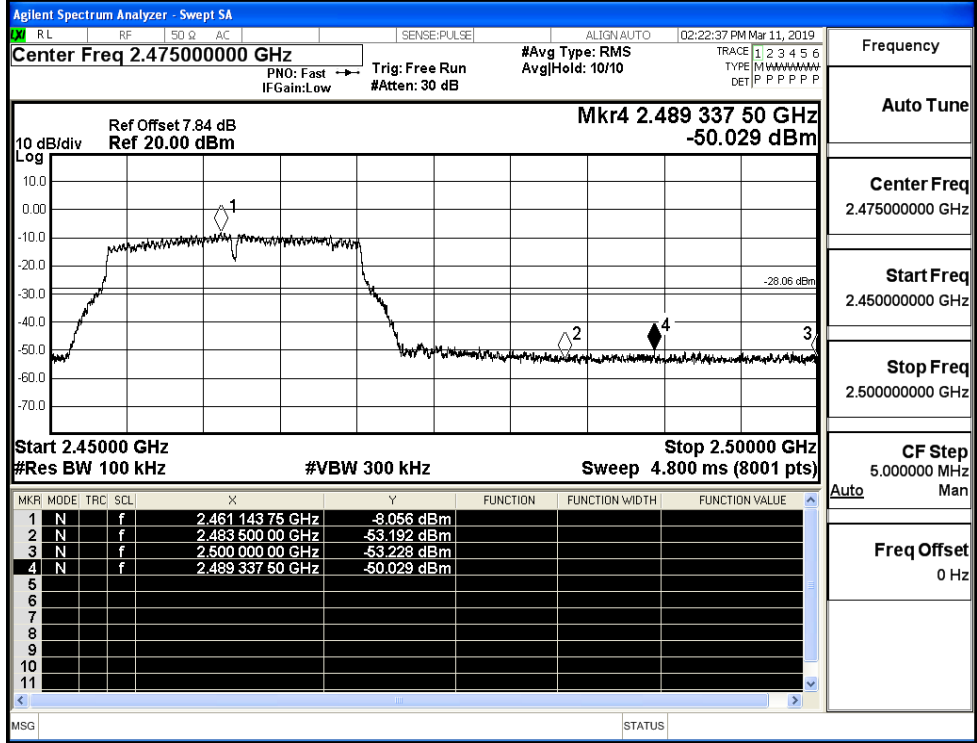
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

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

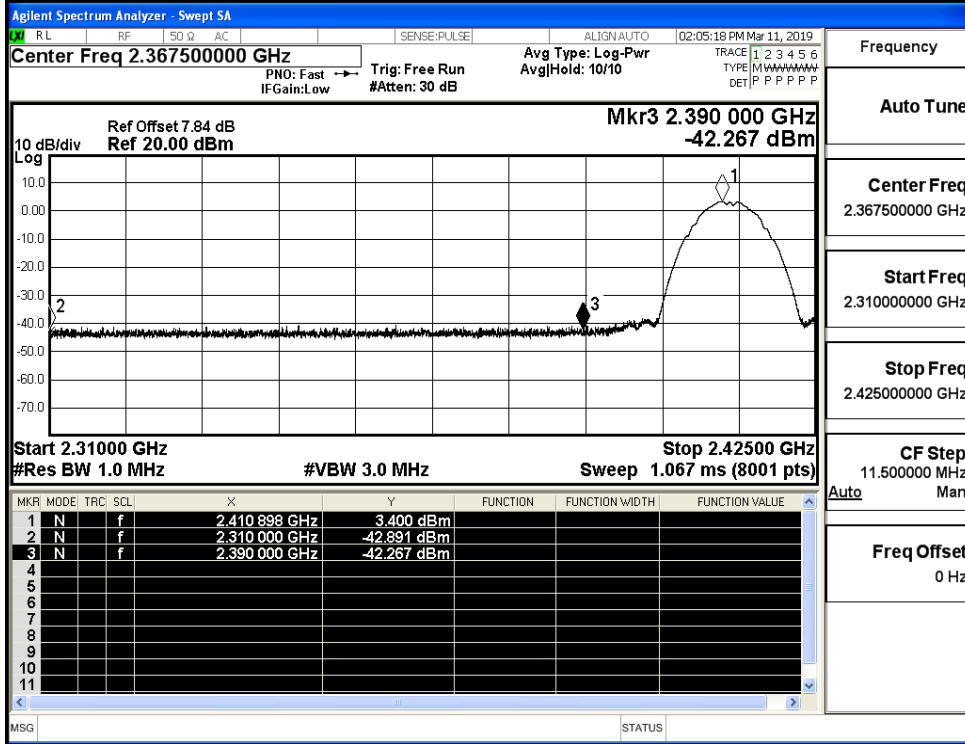
11N20SISO/HCH



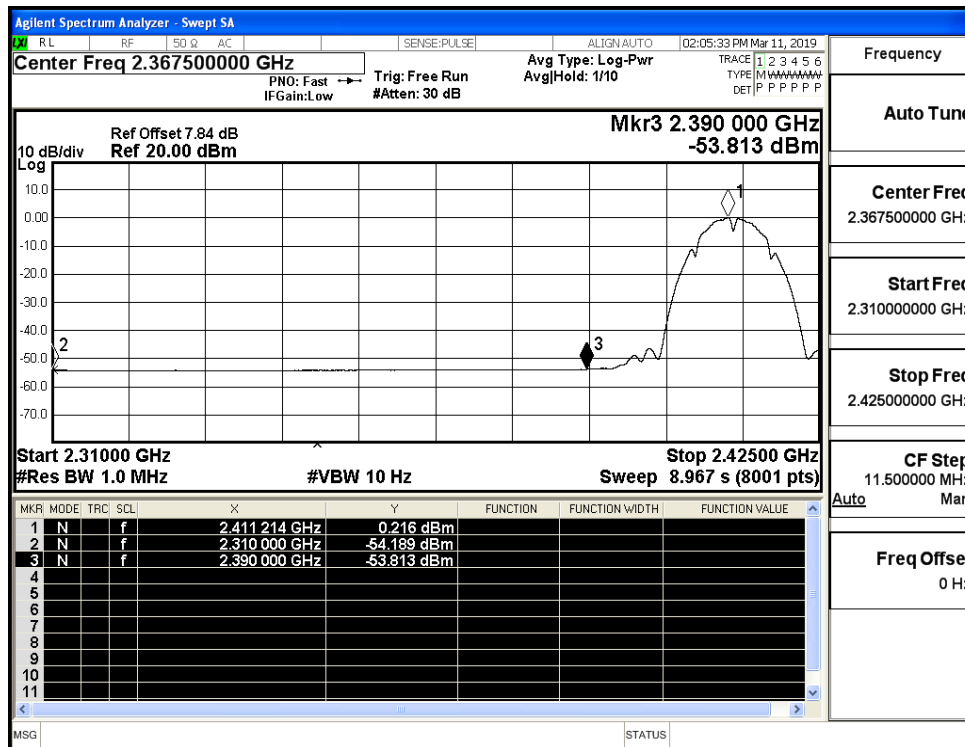
C.7 Restrict-band band-edge measurements

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	-42.89	2.0	0	54.37	PEAK	74	PASS
	2412	Ant1	2310.0	-54.19	2.0	0	43.07	AV	54	PASS
	2412	Ant1	2390.0	-42.27	2.0	0	54.99	PEAK	74	PASS
	2412	Ant1	2390.0	-53.81	2.0	0	43.44	AV	54	PASS
	2462	Ant1	2483.5	-41.50	2.0	0	55.76	PEAK	74	PASS
	2462	Ant1	2483.5	-53.47	2.0	0	43.79	AV	54	PASS
	2462	Ant1	2500.0	-42.71	2.0	0	54.55	PEAK	74	PASS
	2462	Ant1	2500.0	-53.43	2.0	0	43.83	AV	54	PASS
11G	2412	Ant1	2310.0	-43.86	2.0	0	53.40	PEAK	74	PASS
	2412	Ant1	2310.0	-54.18	2.0	0	43.08	AV	54	PASS
	2412	Ant1	2390.0	-44.08	2.0	0	53.18	PEAK	74	PASS
	2412	Ant1	2390.0	-53.76	2.0	0	43.49	AV	54	PASS
	2462	Ant1	2483.5	-43.71	2.0	0	53.55	PEAK	74	PASS
	2462	Ant1	2483.5	-53.40	2.0	0	43.86	AV	54	PASS
	2462	Ant1	2500.0	-40.85	2.0	0	56.41	PEAK	74	PASS
	2462	Ant1	2500.0	-53.46	2.0	0	43.79	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.76	2.0	0	53.50	PEAK	74	PASS
	2412	Ant1	2310.0	-54.18	2.0	0	43.08	AV	54	PASS
	2412	Ant1	2390.0	-43.41	2.0	0	53.84	PEAK	74	PASS
	2412	Ant1	2390.0	-53.70	2.0	0	43.56	AV	54	PASS
	2462	Ant1	2483.5	-43.06	2.0	0	54.20	PEAK	74	PASS
	2462	Ant1	2483.5	-53.08	2.0	0	44.17	AV	54	PASS
	2462	Ant1	2500.0	-43.21	2.0	0	54.05	PEAK	74	PASS
	2462	Ant1	2500.0	-53.42	2.0	0	43.84	AV	54	PASS

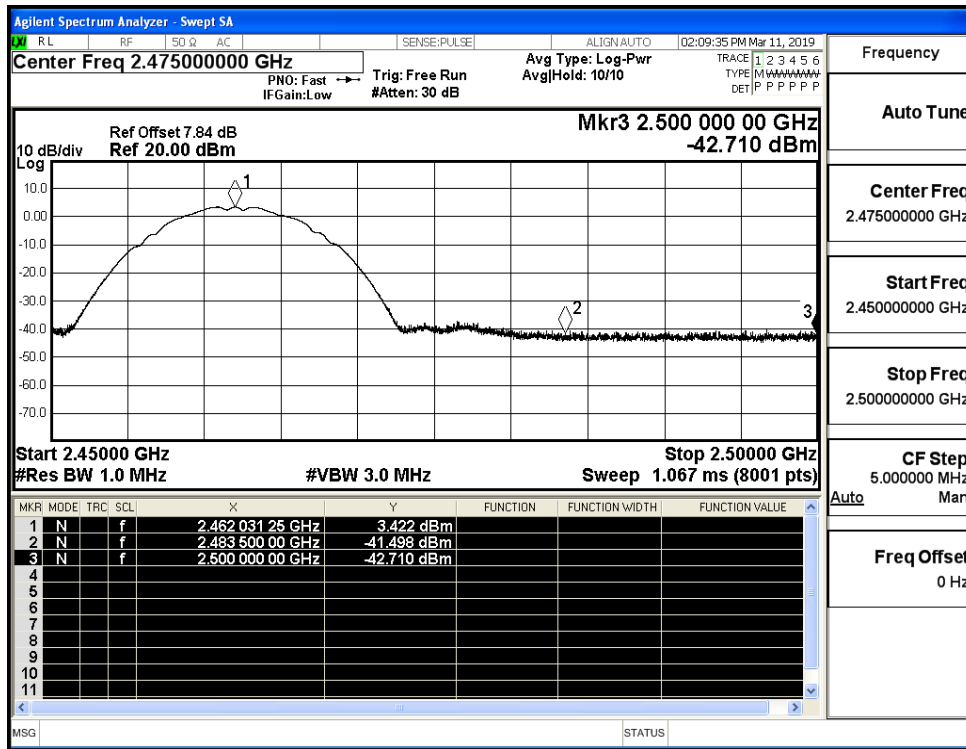
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



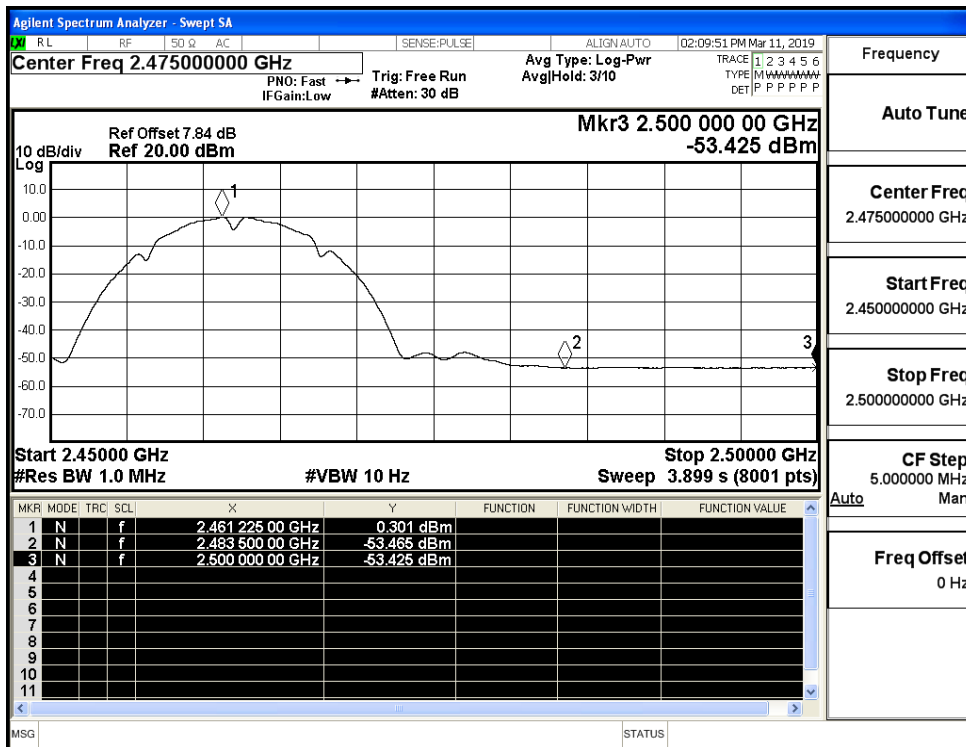
Restrict-band band-edge measurements_11B_2412_Ant1_AV



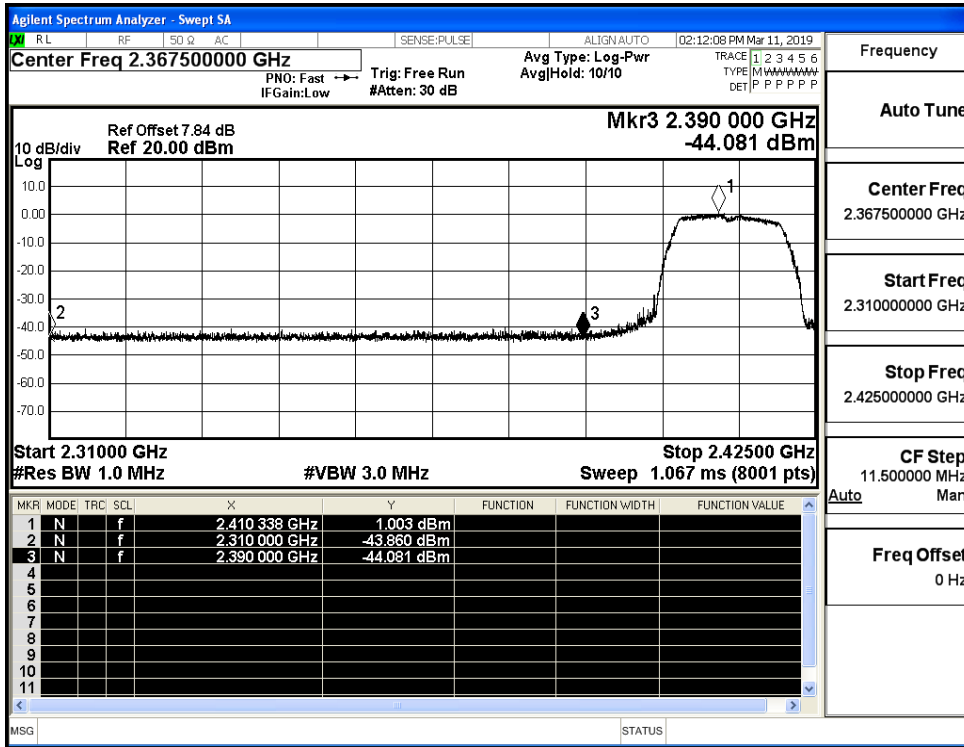
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



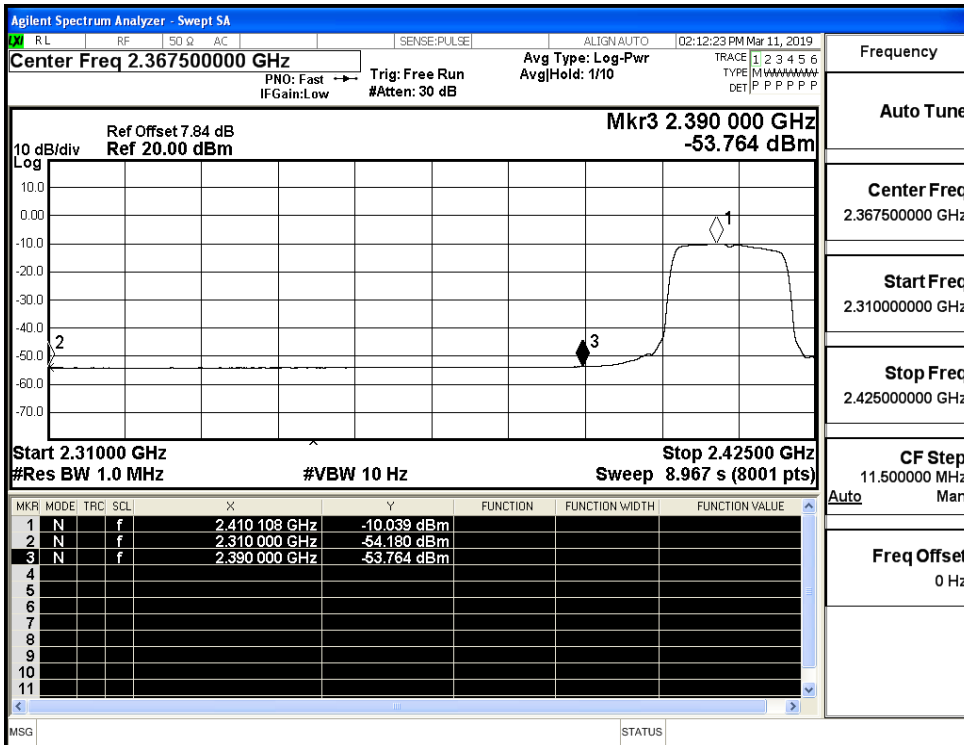
Restrict-band band-edge measurements_11B_2462_Ant1_AV



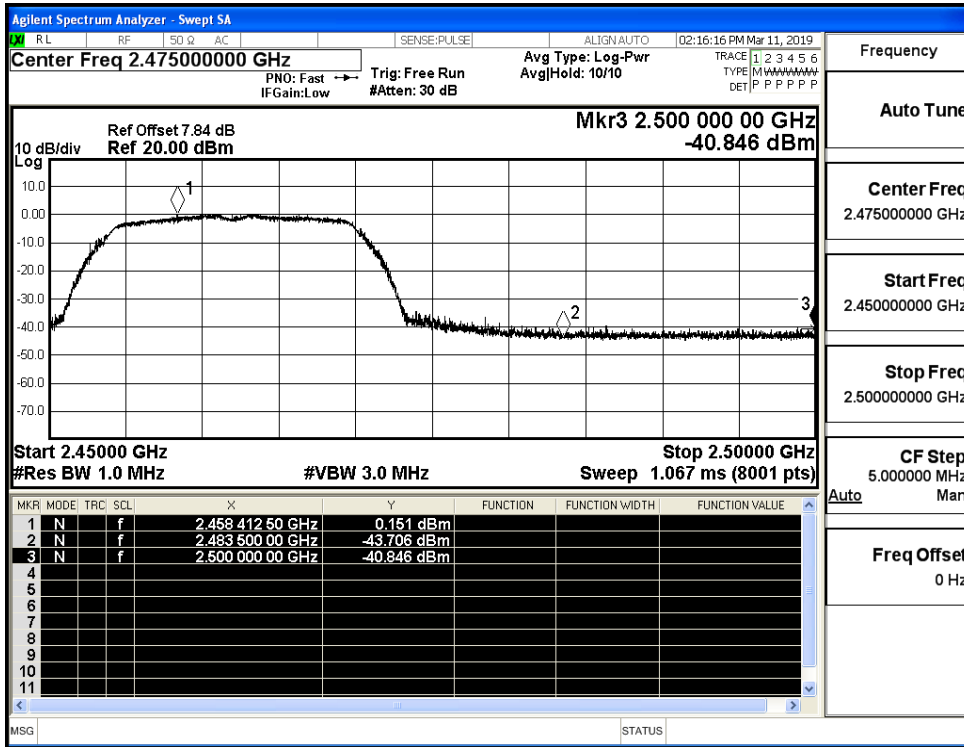
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



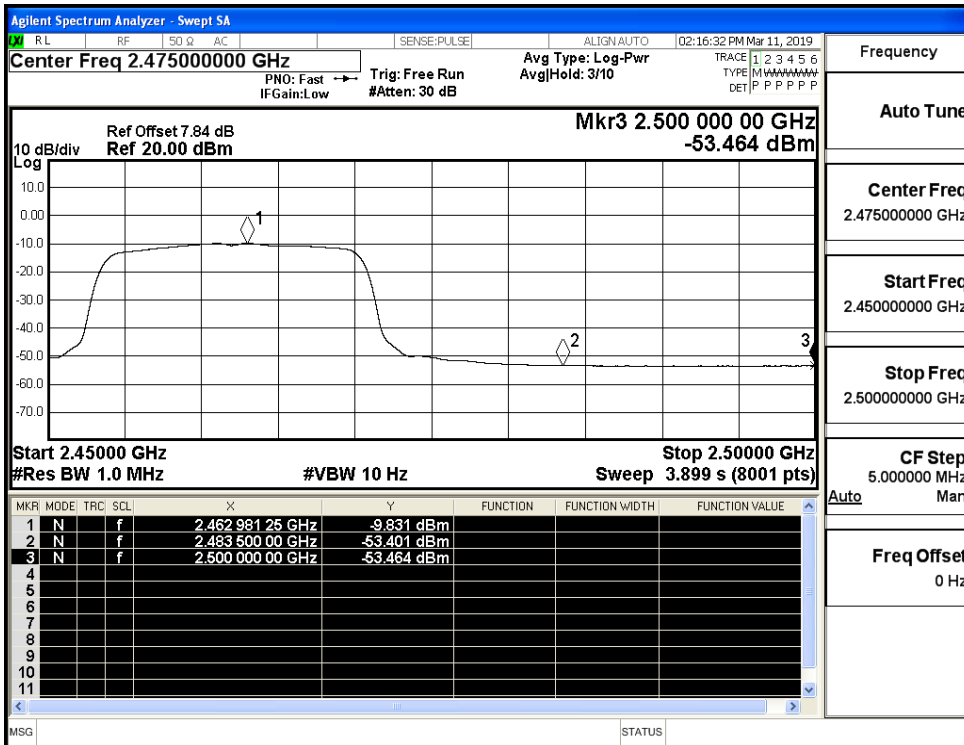
Restrict-band band-edge measurements_11G_2412_Ant1_AV



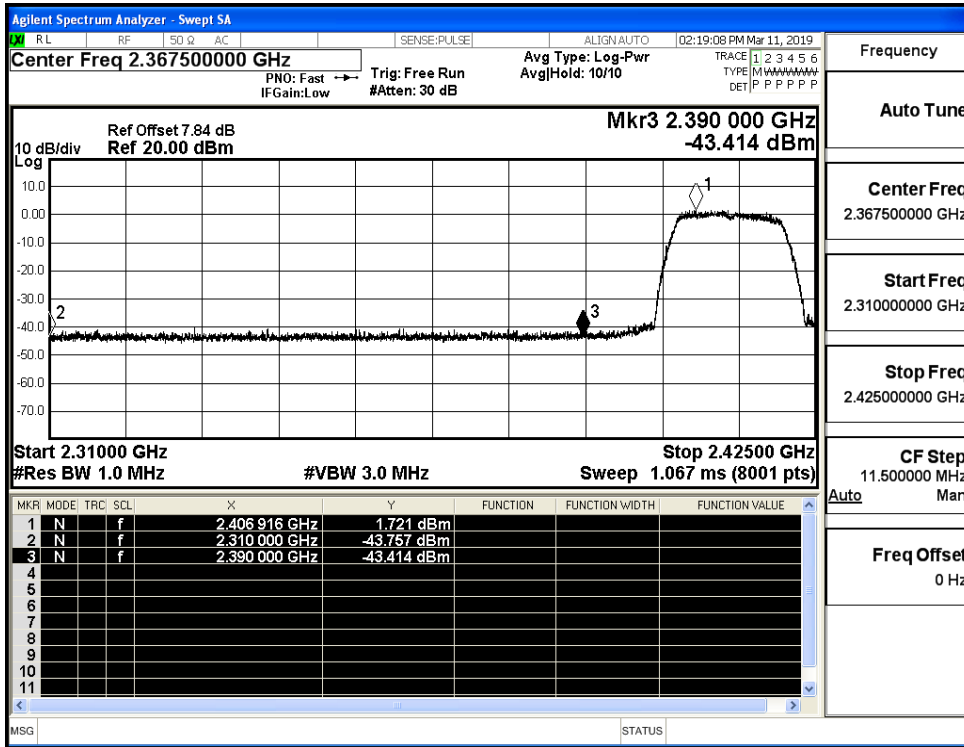
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



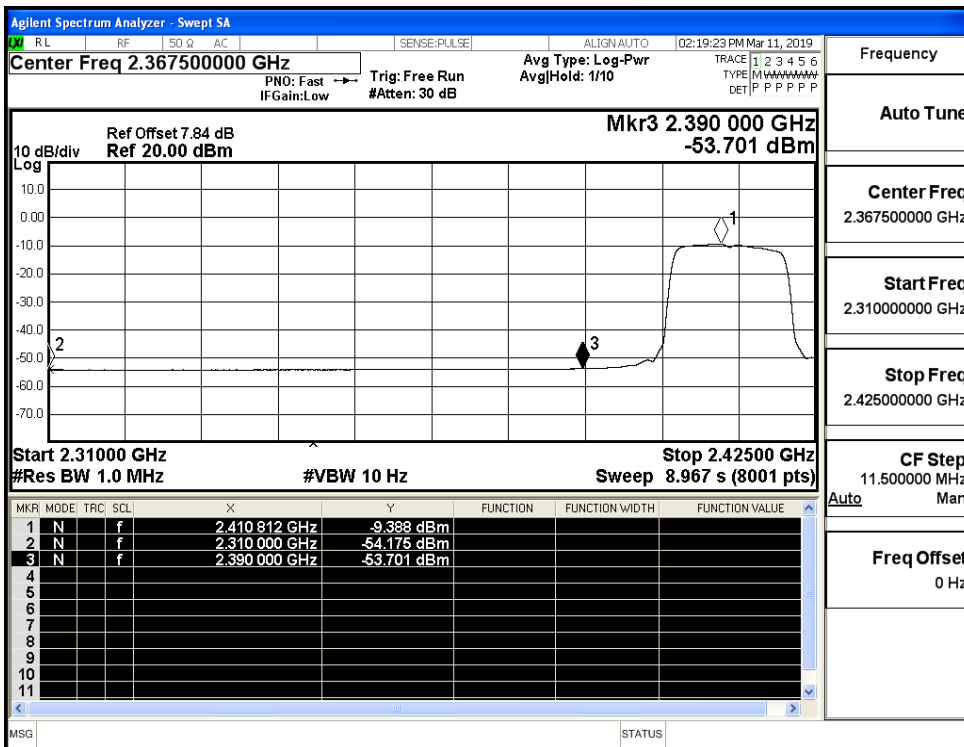
Restrict-band band-edge measurements_11G_2462_Ant1_AV



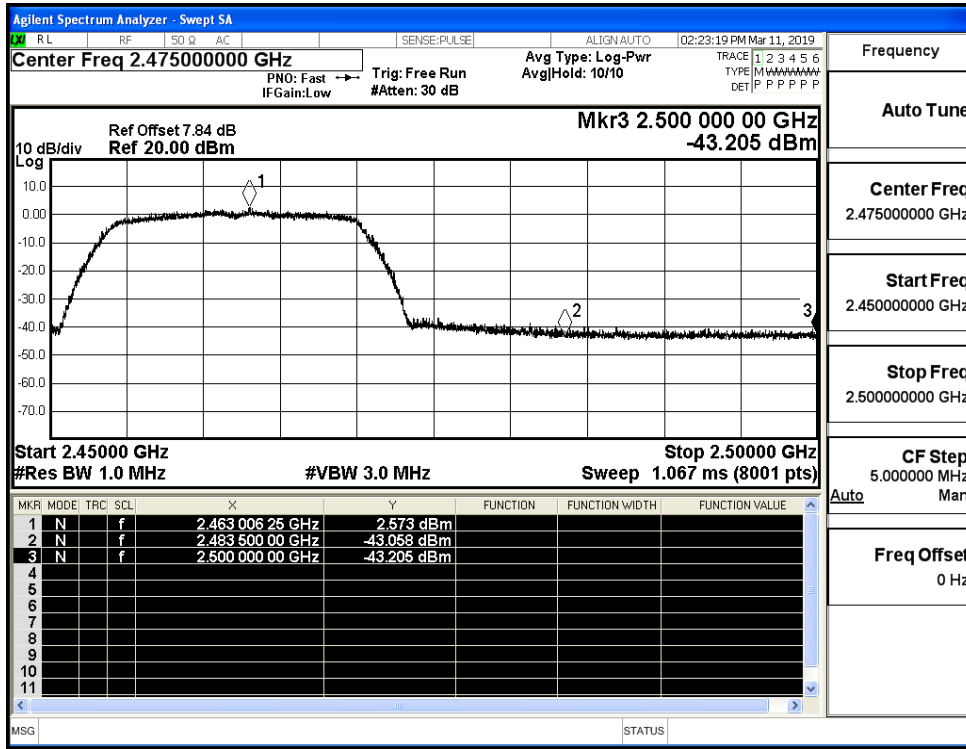
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

