

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Internet Radio

Trade Mark: N/A

Test Model: MA-200

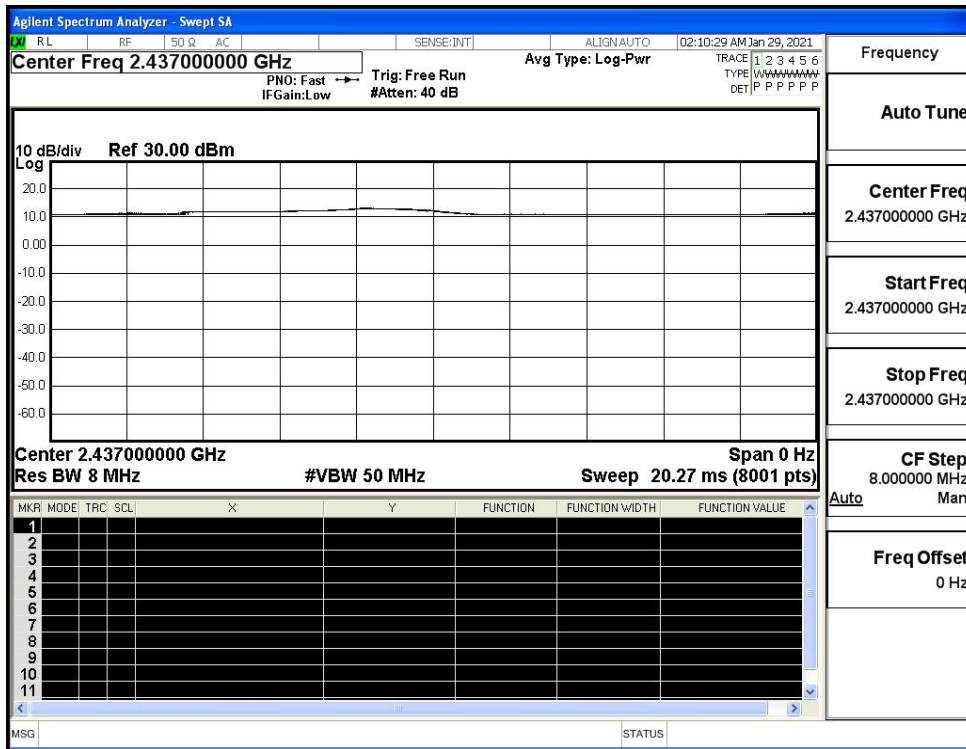
Environmental Conditions

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

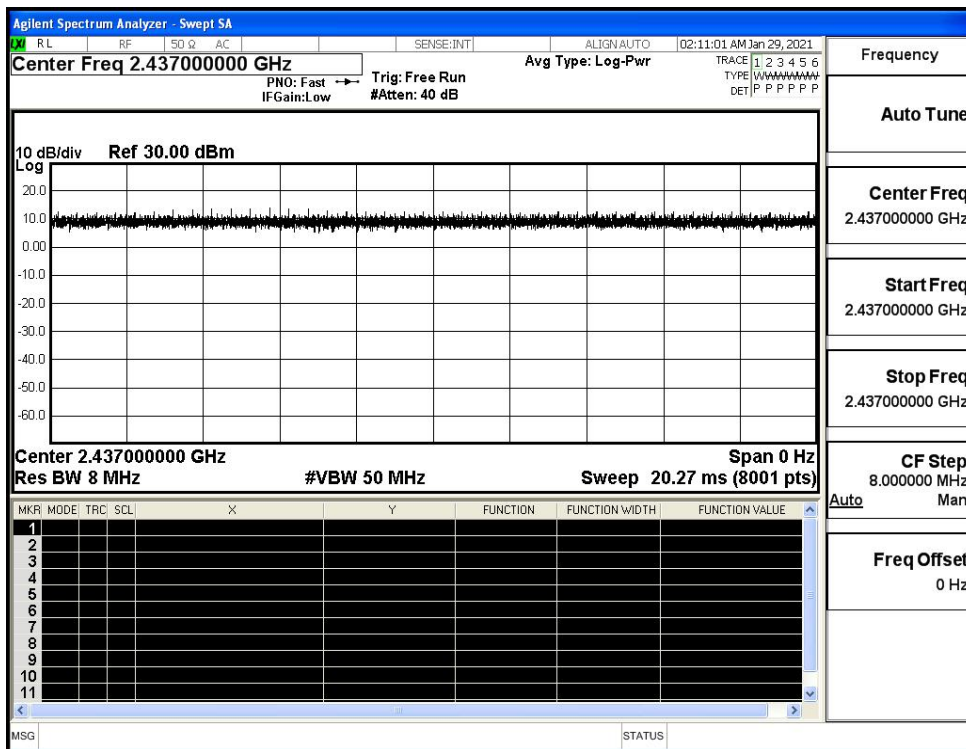
B.1 Duty Cycle

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

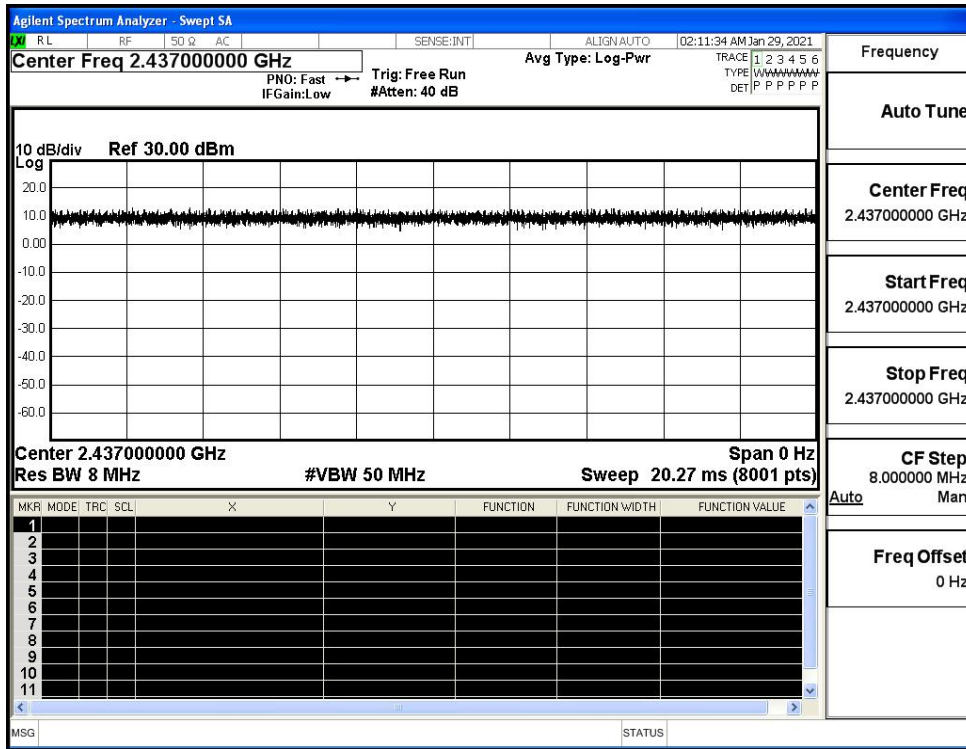
Duty Cycle_11B_2437_Ant1



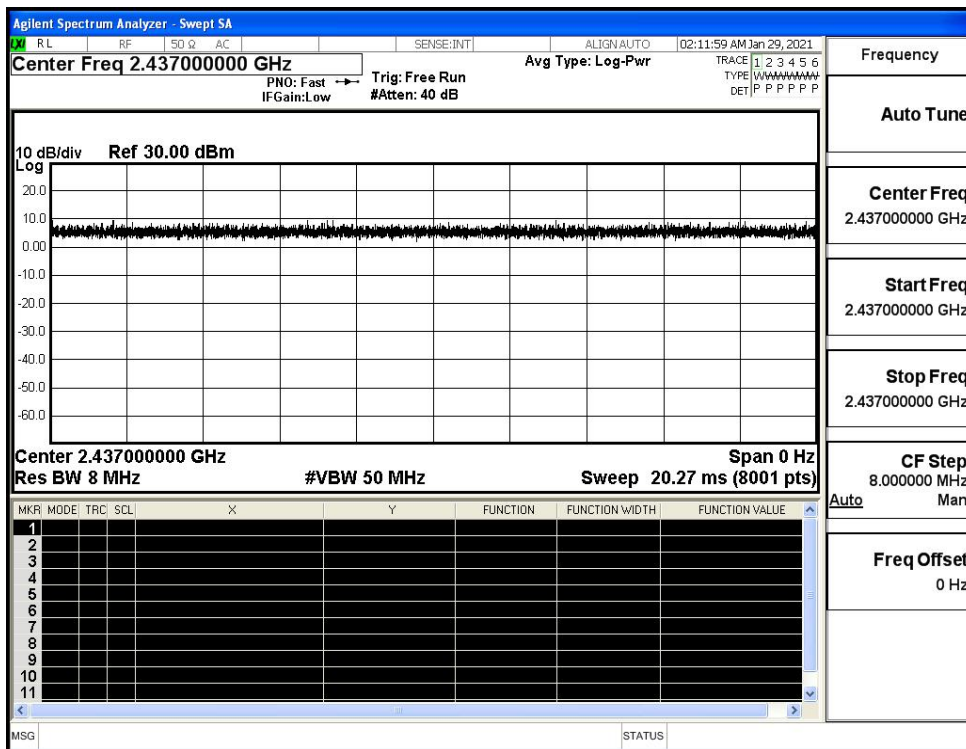
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



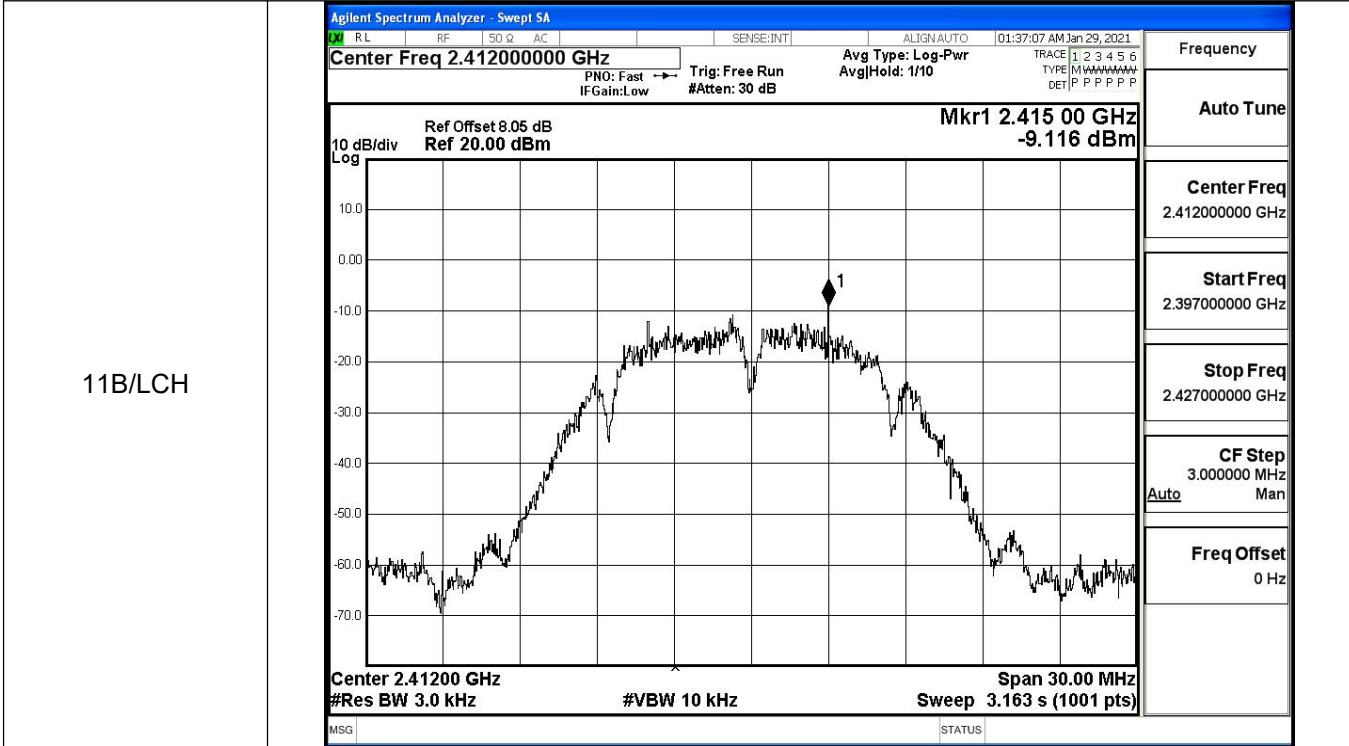
B.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.93	30	PASS
	MCH	15.16	30	PASS
	HCH	14.88	30	PASS
11G	LCH	15.65	30	PASS
	MCH	14.04	30	PASS
	HCH	14.32	30	PASS
11N20SISO	LCH	14.71	30	PASS
	MCH	13.68	30	PASS
	HCH	13.4	30	PASS
11N40SISO	LCH	13.87	30	PASS
	MCH	13.91	30	PASS
	HCH	13.84	30	PASS

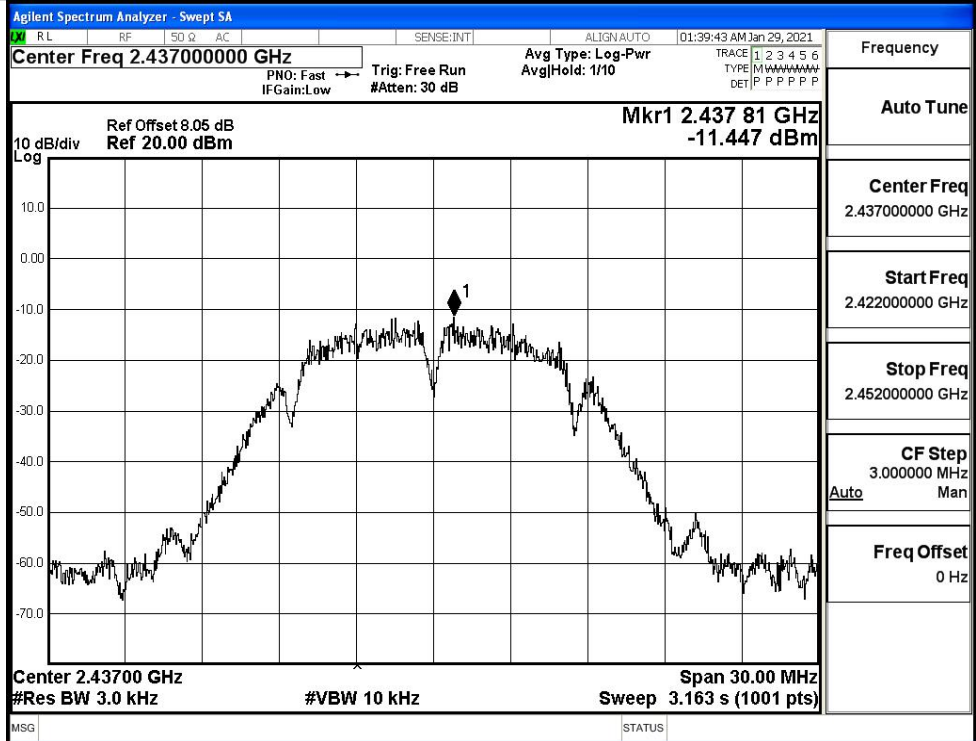
B.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-9.116	8	PASS
	MCH	-11.447	8	PASS
	HCH	-11.976	8	PASS
11G	LCH	-18.268	8	PASS
	MCH	-20.706	8	PASS
	HCH	-18.986	8	PASS
11N20SISO	LCH	-18.557	8	PASS
	MCH	-20.413	8	PASS
	HCH	-20.280	8	PASS
11N40SISO	LCH	-23.219	8	PASS
	MCH	-23.527	8	PASS
	HCH	-22.975	8	PASS

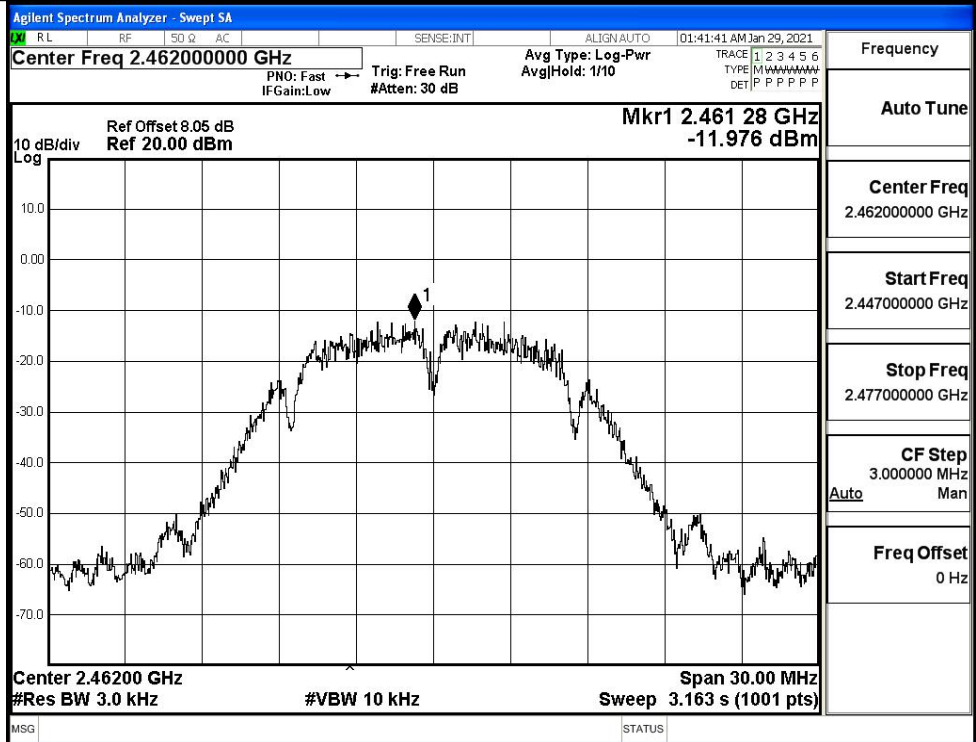
Test Graphs



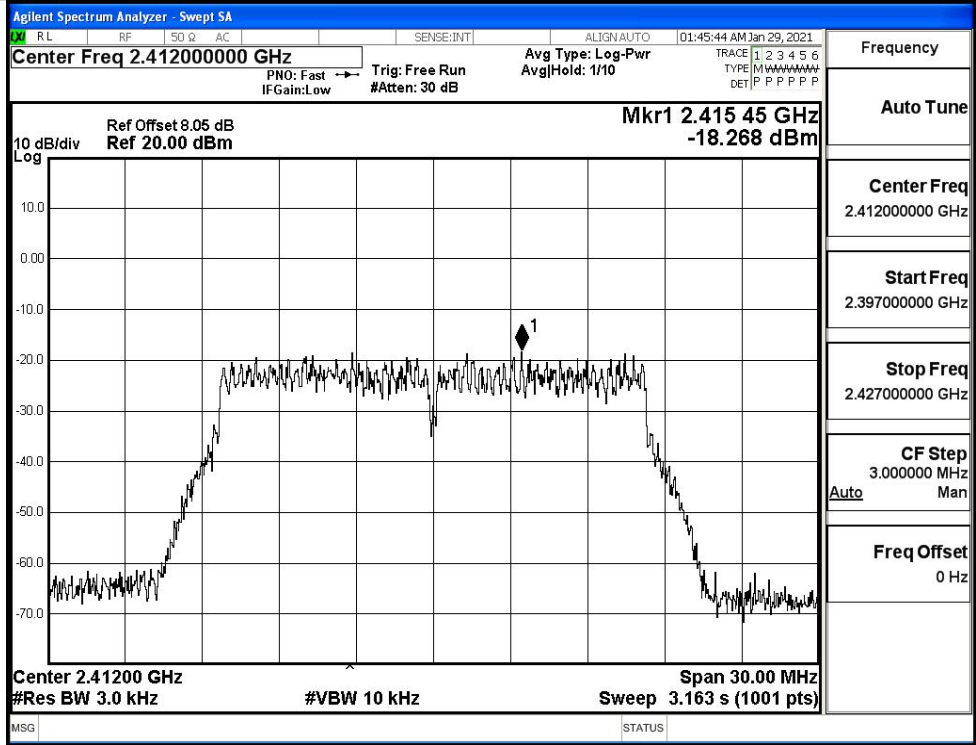
11B/MCH



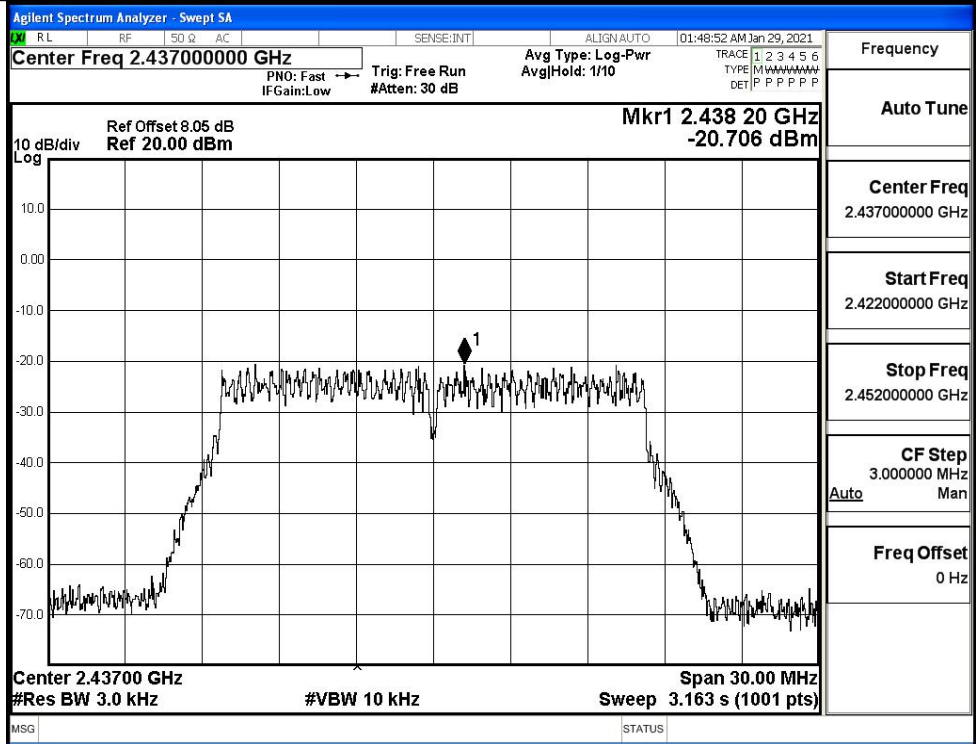
11B/HCH



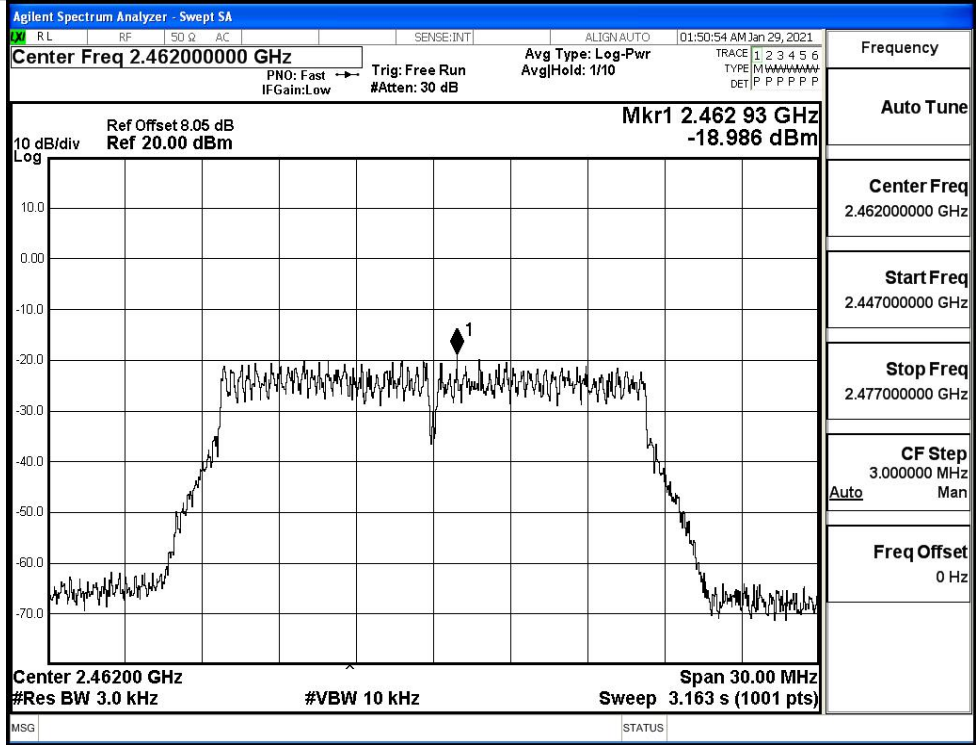
11G/LCH



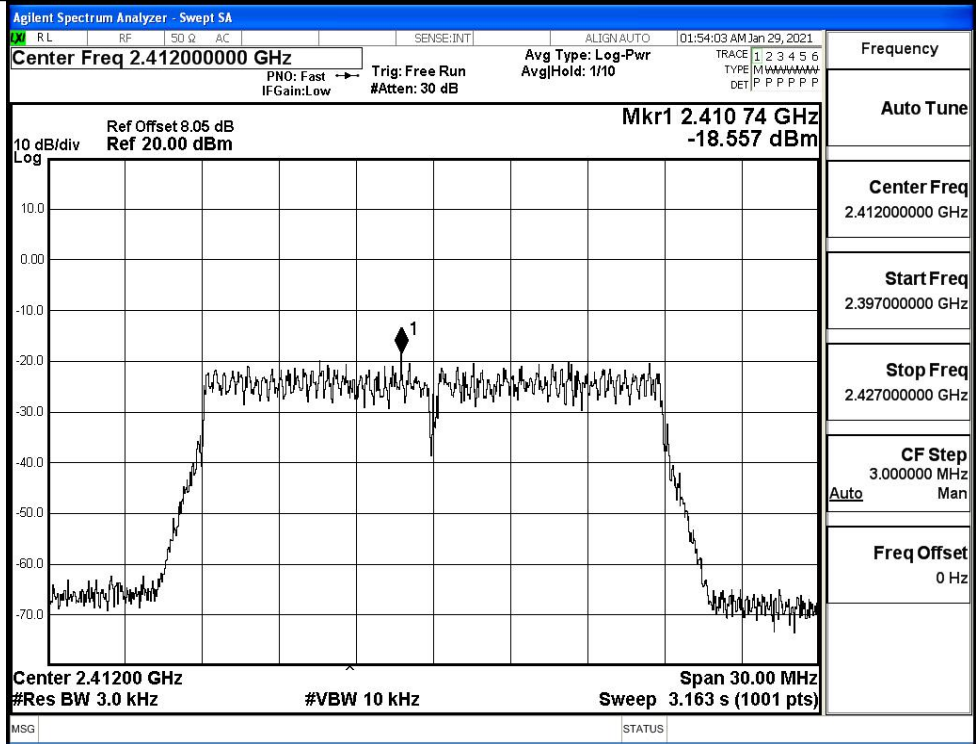
11G/MCH



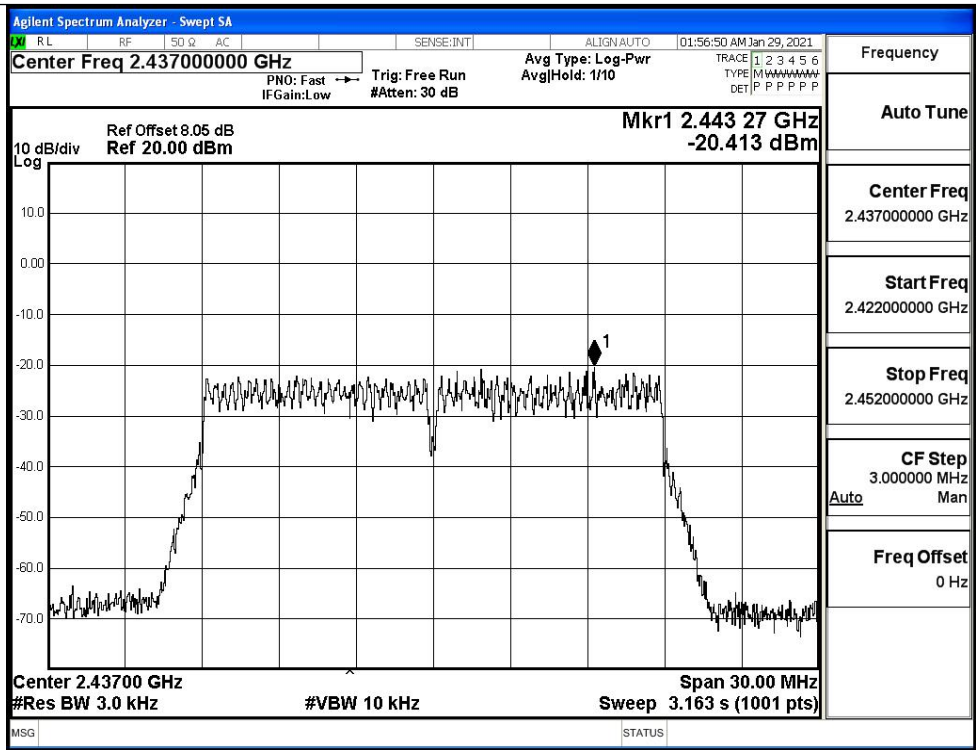
11G/HCH



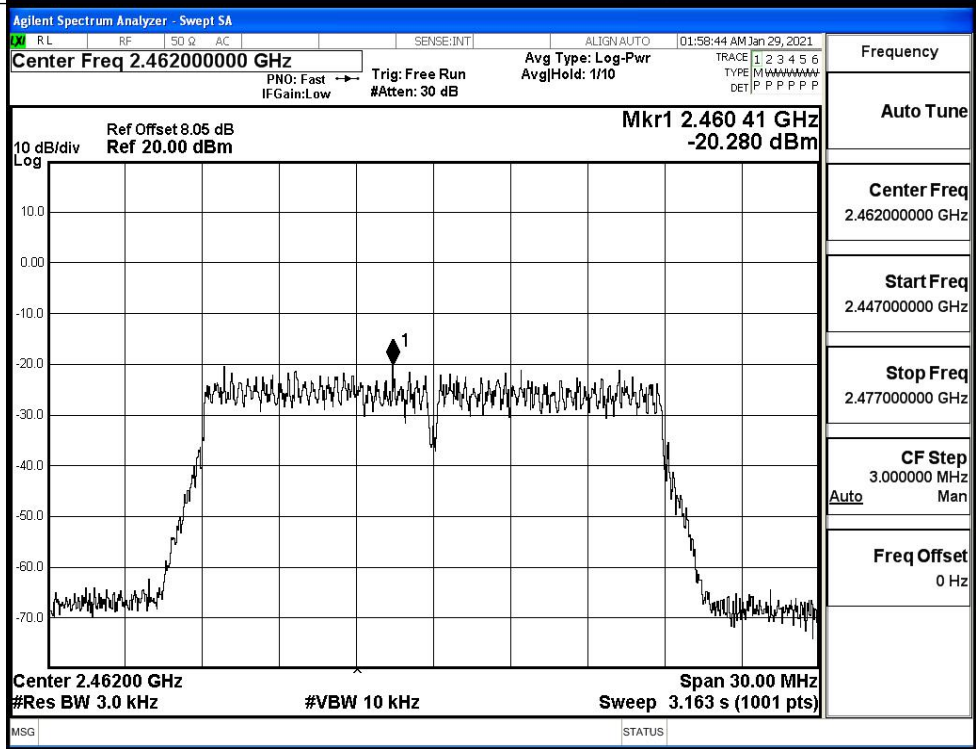
11N20SISO/LCH



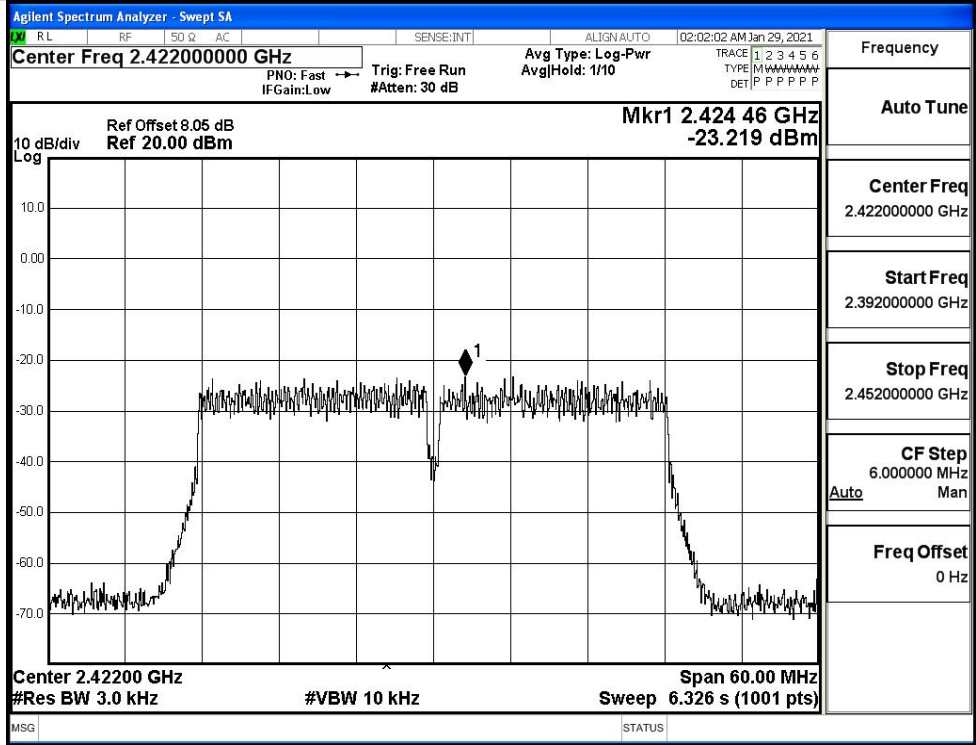
11N20SISO/MCH



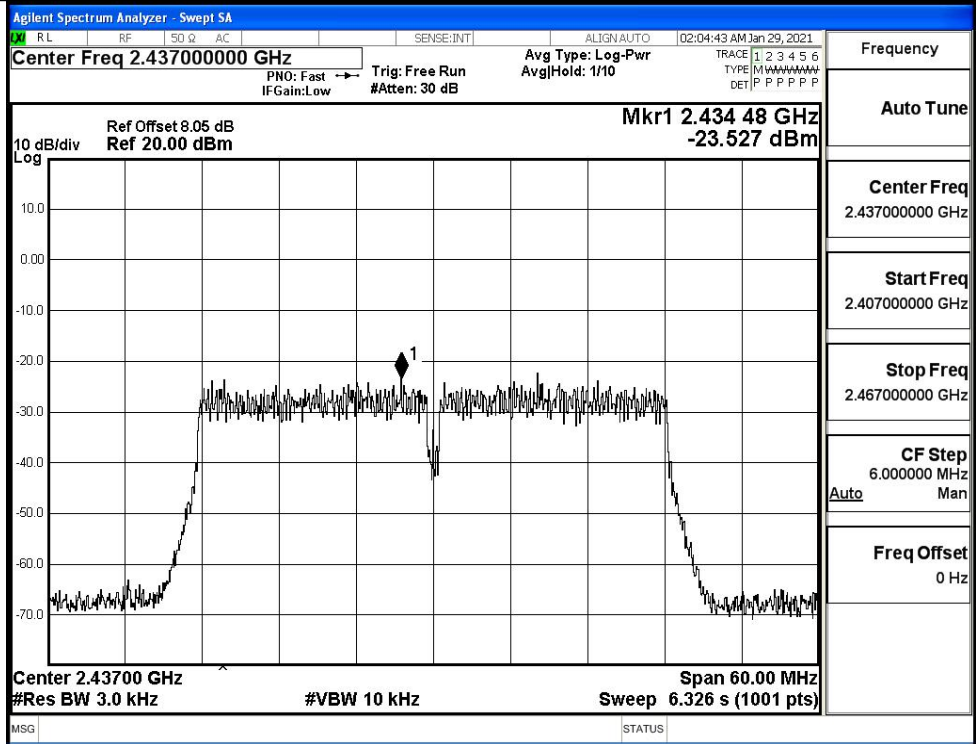
11N20SISO/HCH



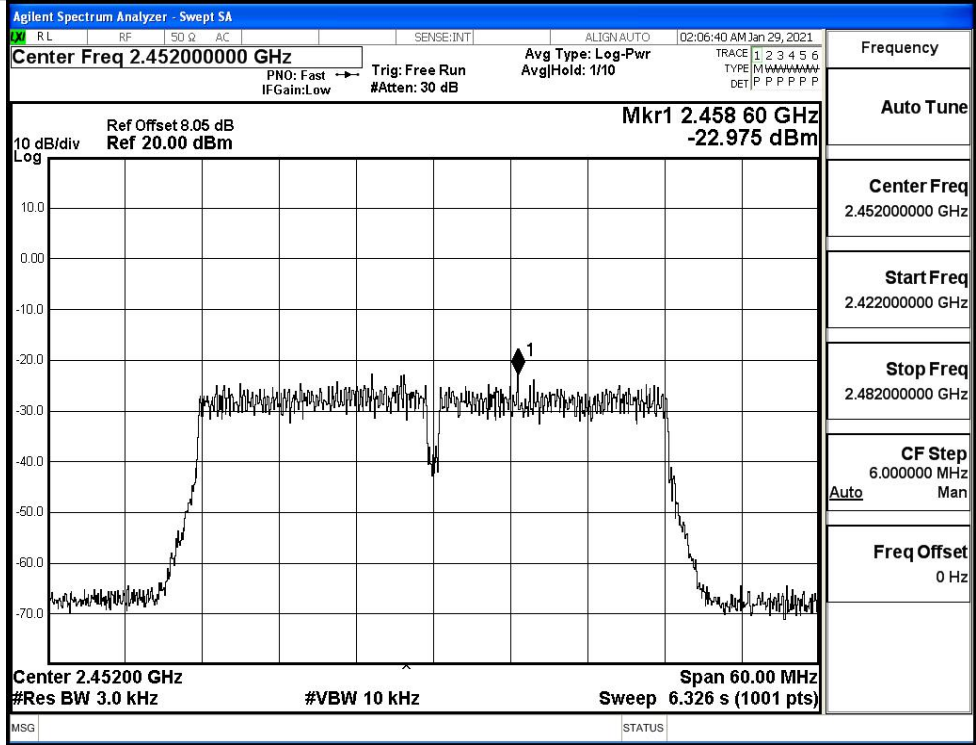
11N40SISO/LCH



11N40SISO/MCH



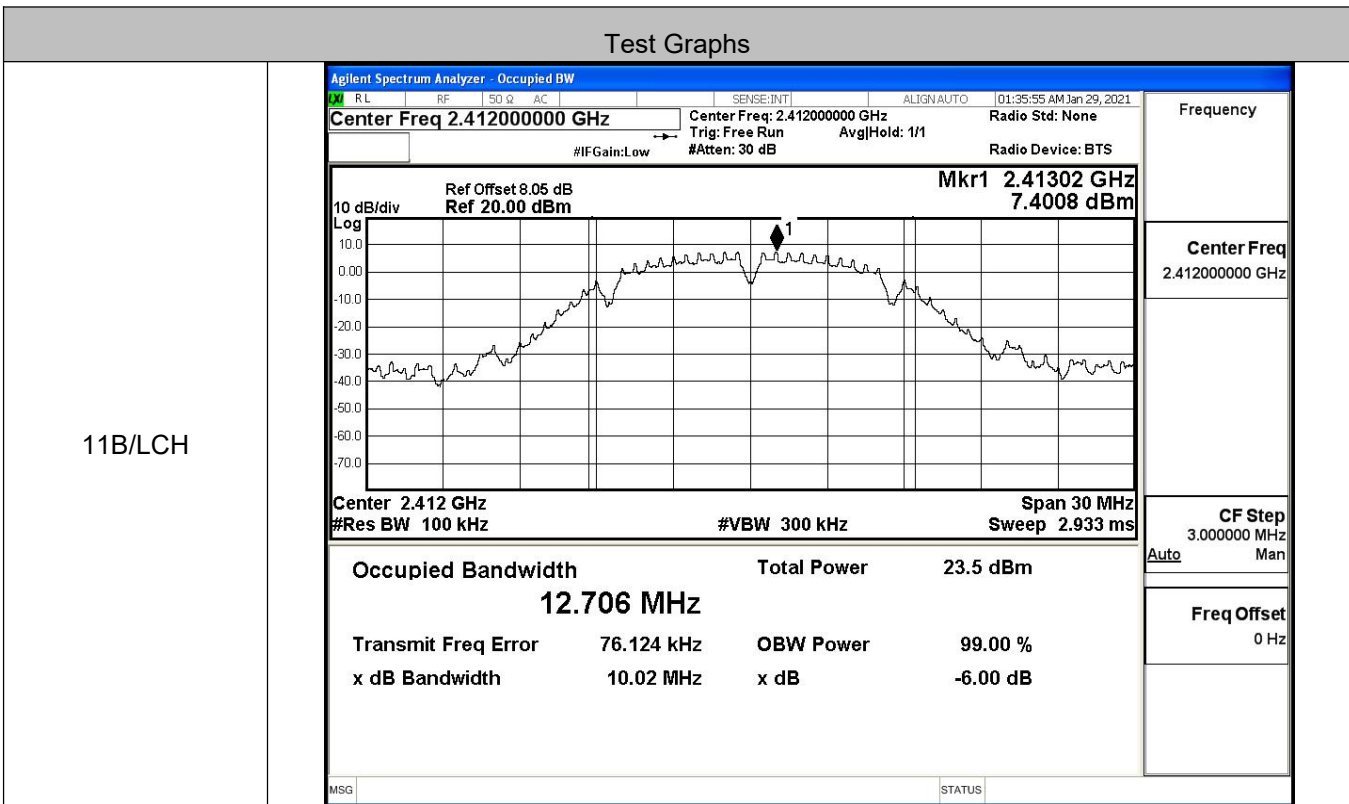
11N40SISO/HCH



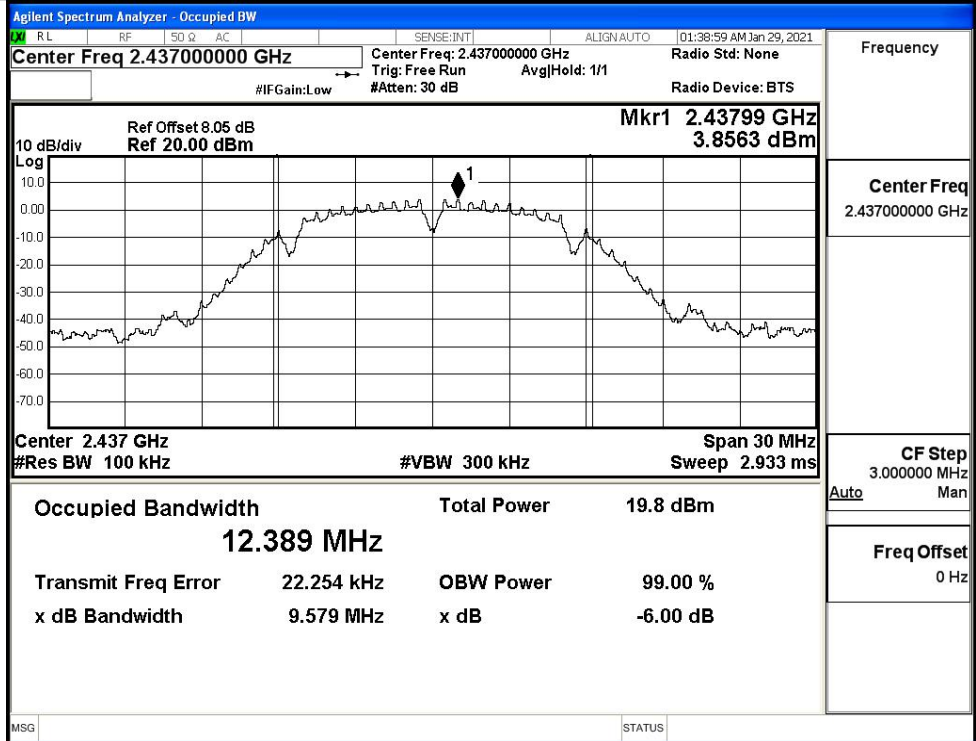
B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.02	≥0.5	PASS
	MCH	9.579	≥0.5	PASS
	HCH	9.566	≥0.5	PASS
11G	LCH	16.38	≥0.5	PASS
	MCH	16.38	≥0.5	PASS
	HCH	16.37	≥0.5	PASS
11N20SISO	LCH	17.61	≥0.5	PASS
	MCH	17.61	≥0.5	PASS
	HCH	17.62	≥0.5	PASS
11N40SISO	LCH	36.10	≥0.5	PASS
	MCH	35.73	≥0.5	PASS
	HCH	35.92	≥0.5	PASS

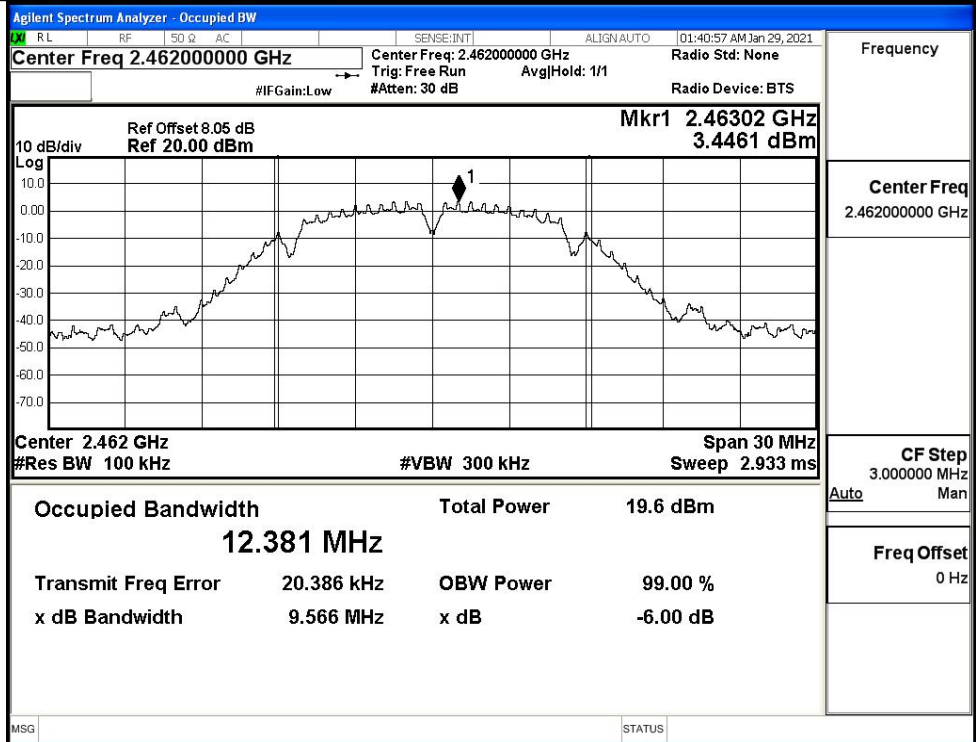
Test Graphs



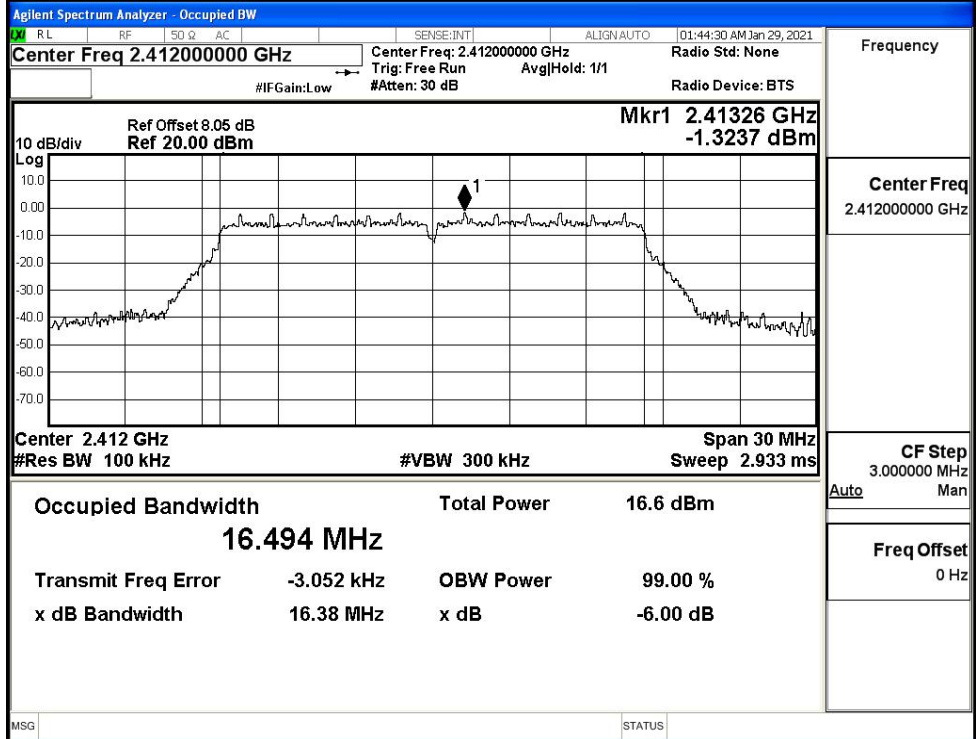
11B/MCH



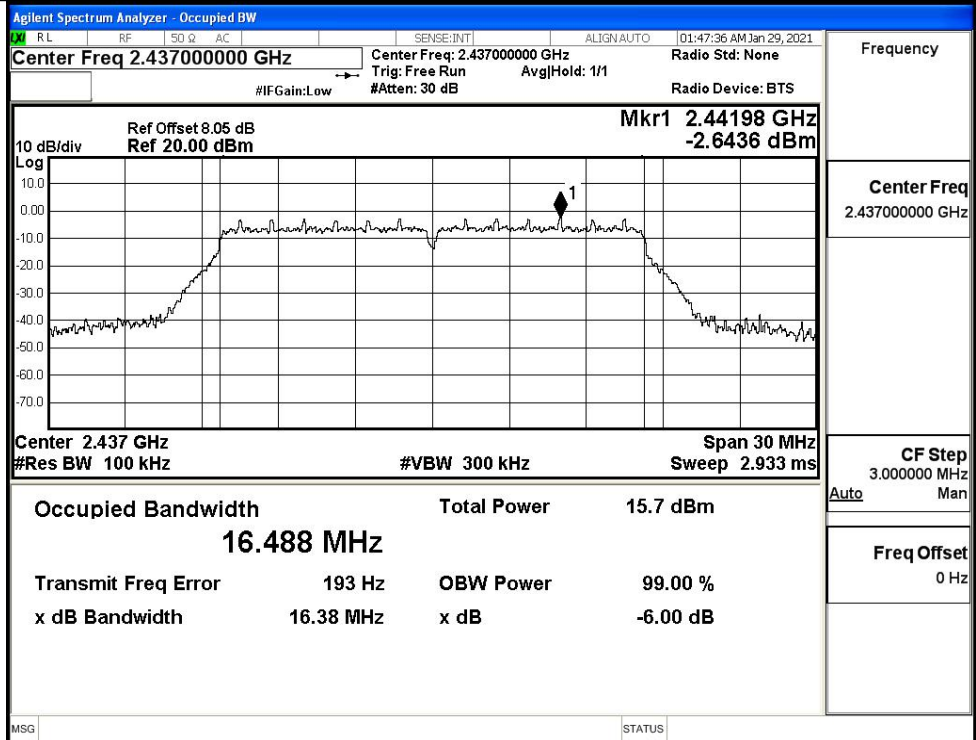
11B/HCH



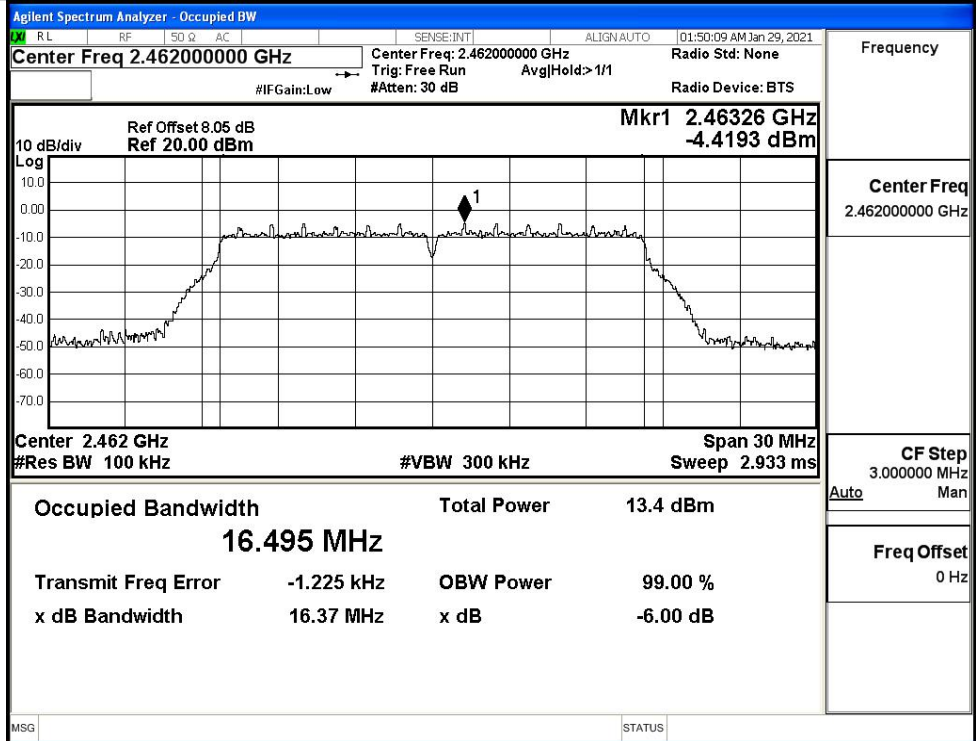
11G/LCH



11G/MCH

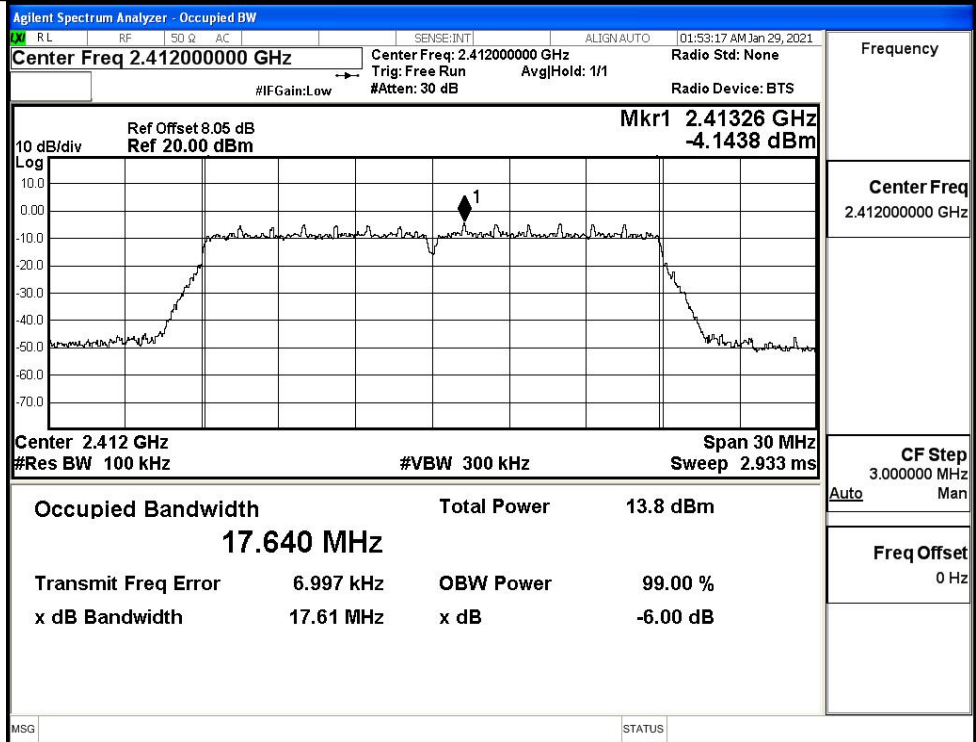


11G/HCH



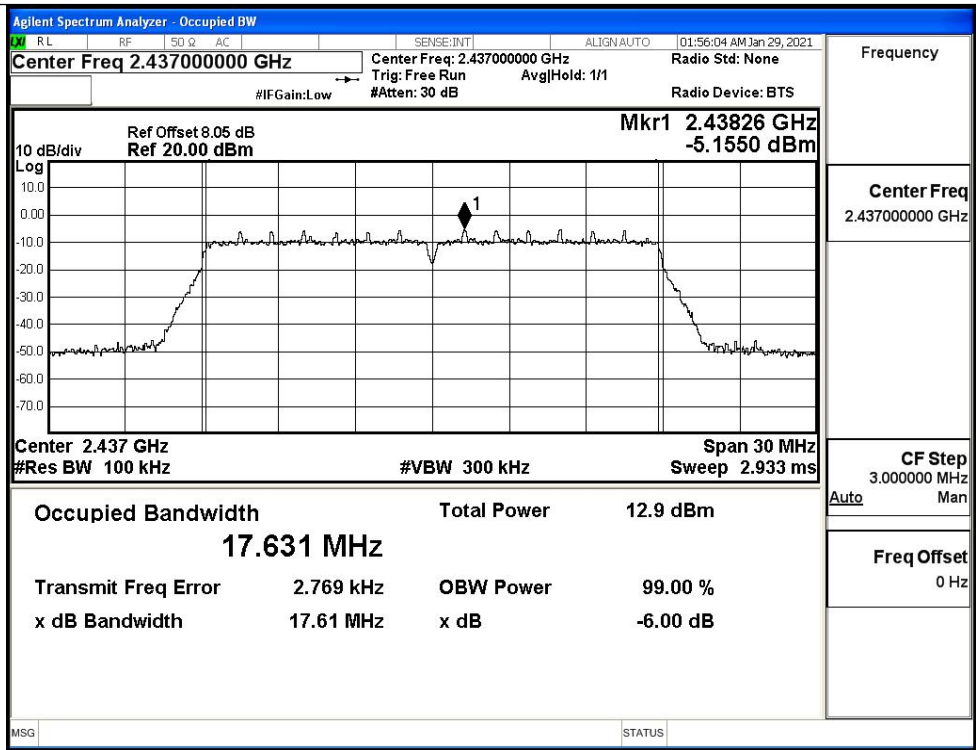
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

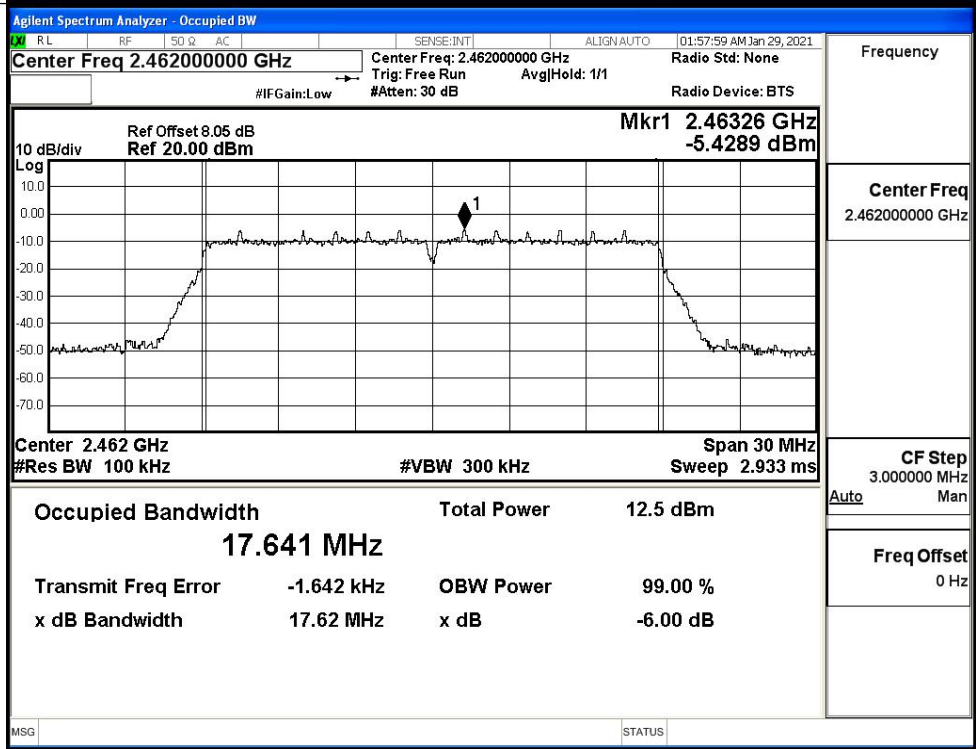


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

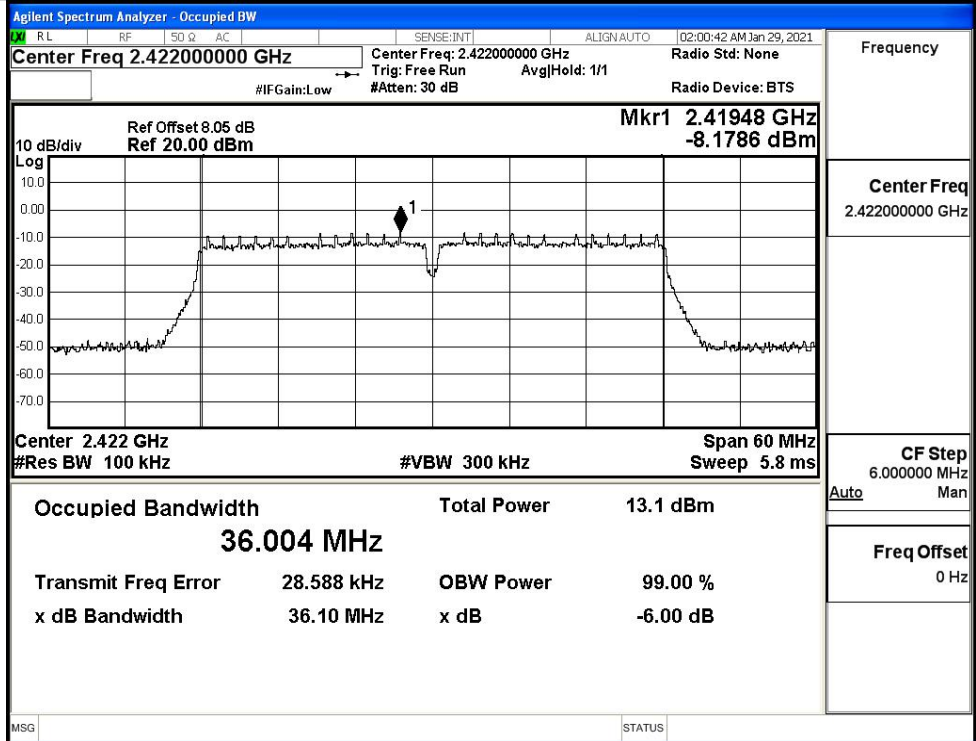
11N20SISO/MCH



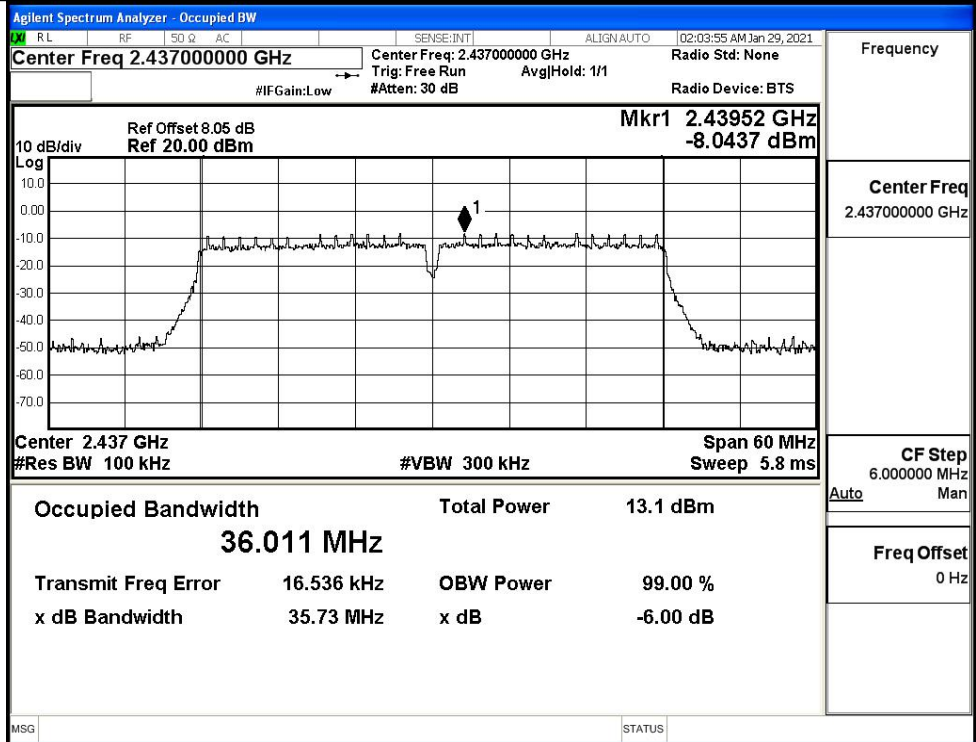
11N20SISO/HCH



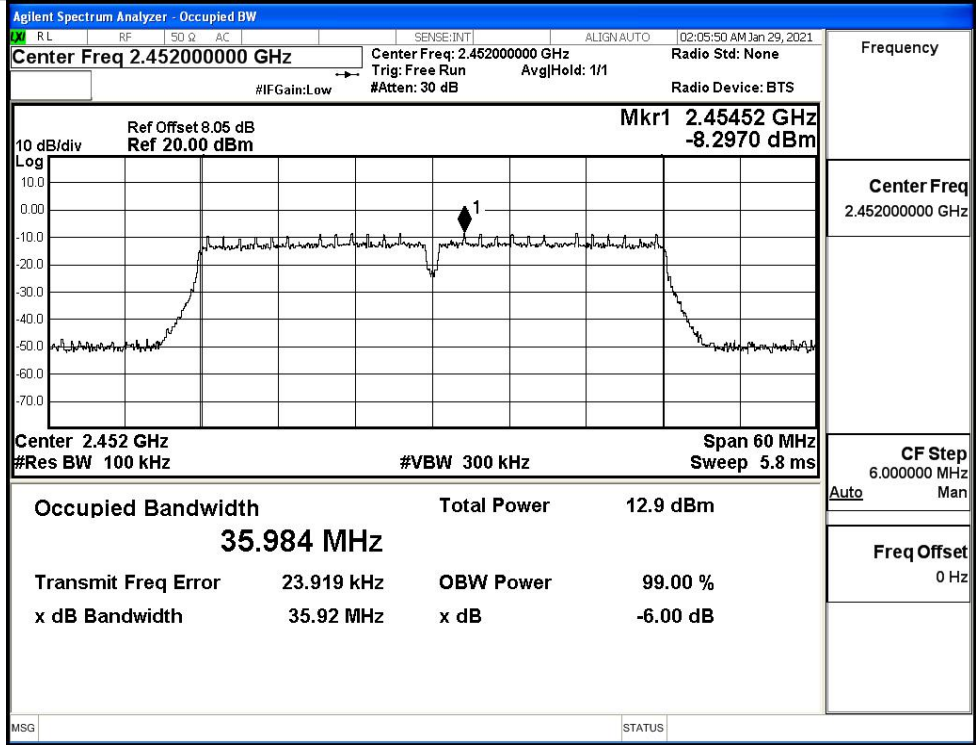
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

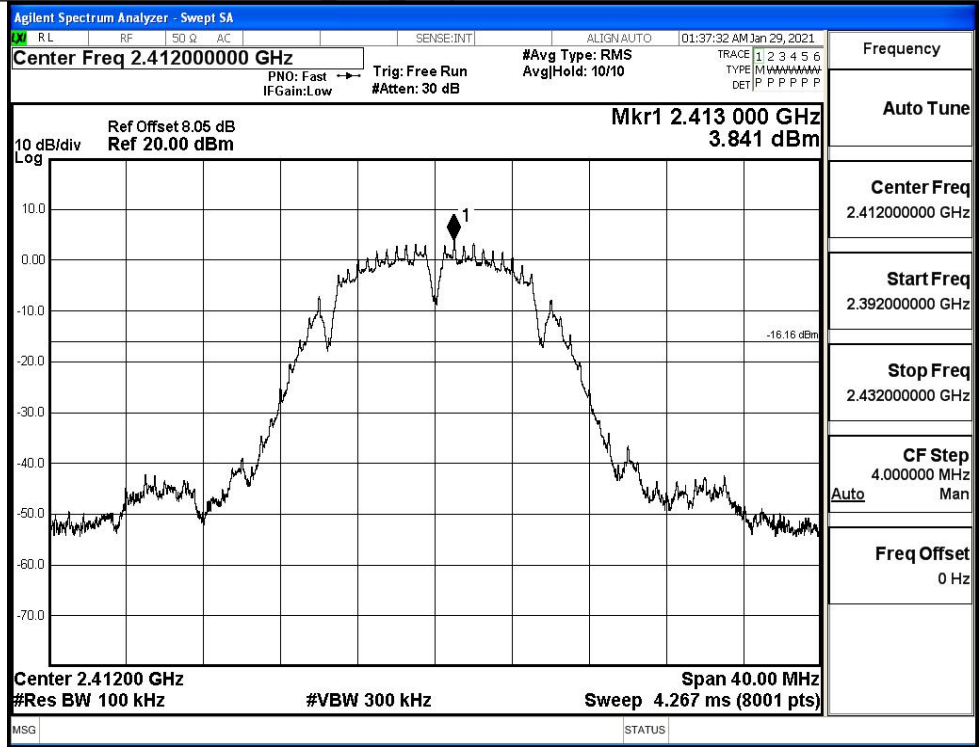


B.5 RF Conducted Spurious Emissions

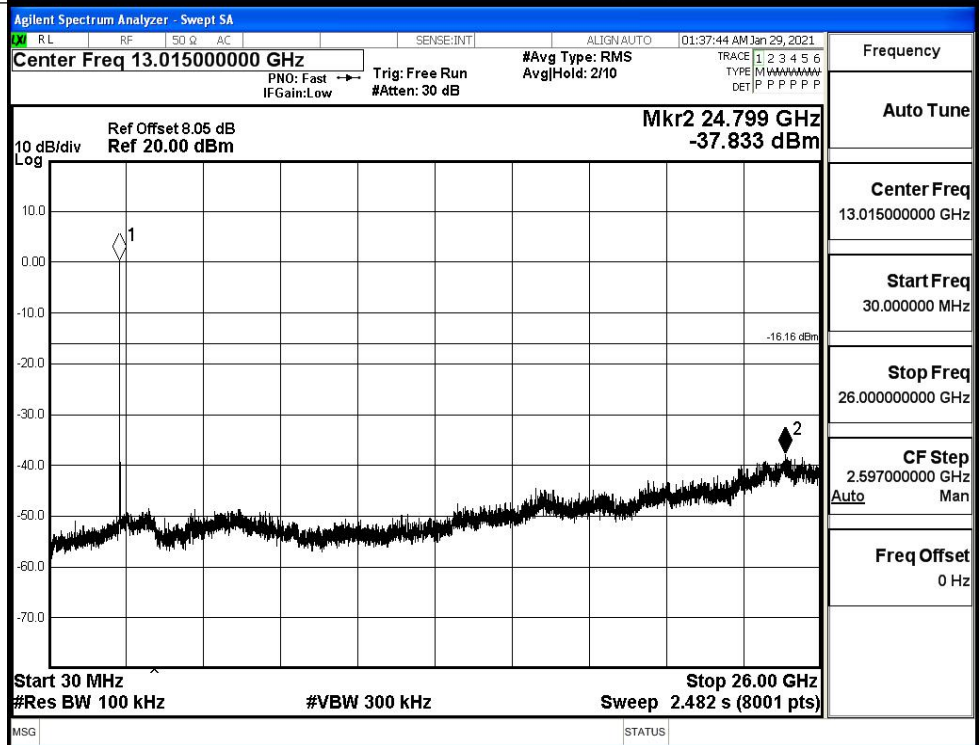
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.841	-37.833	-16.159	PASS
	MCH	3.293	-37.502	-16.707	PASS
	HCH	3.383	-37.324	-16.617	PASS
11G	LCH	-3.772	-37.537	-23.772	PASS
	MCH	-5.115	-36.794	-25.115	PASS
	HCH	-4.279	-37.964	-24.279	PASS
11N20 SISO	LCH	-4.551	-38.234	-24.551	PASS
	MCH	-5.314	-38.033	-25.314	PASS
	HCH	-5.946	-38.317	-25.946	PASS
11N40 SISO	LCH	-8.163	-37.071	-28.163	PASS
	MCH	-8.117	-37.745	-28.117	PASS
	HCH	-8.362	-37.469	-28.362	PASS

11B LCH Graphs

Pref/11B/LCH

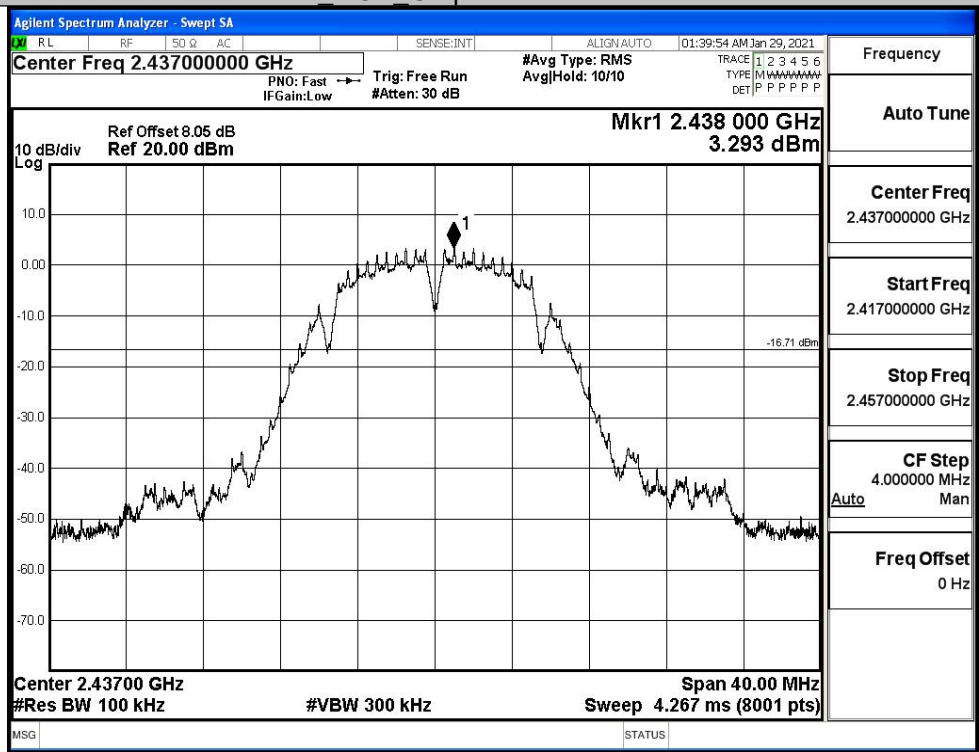


Puw/11B/LCH

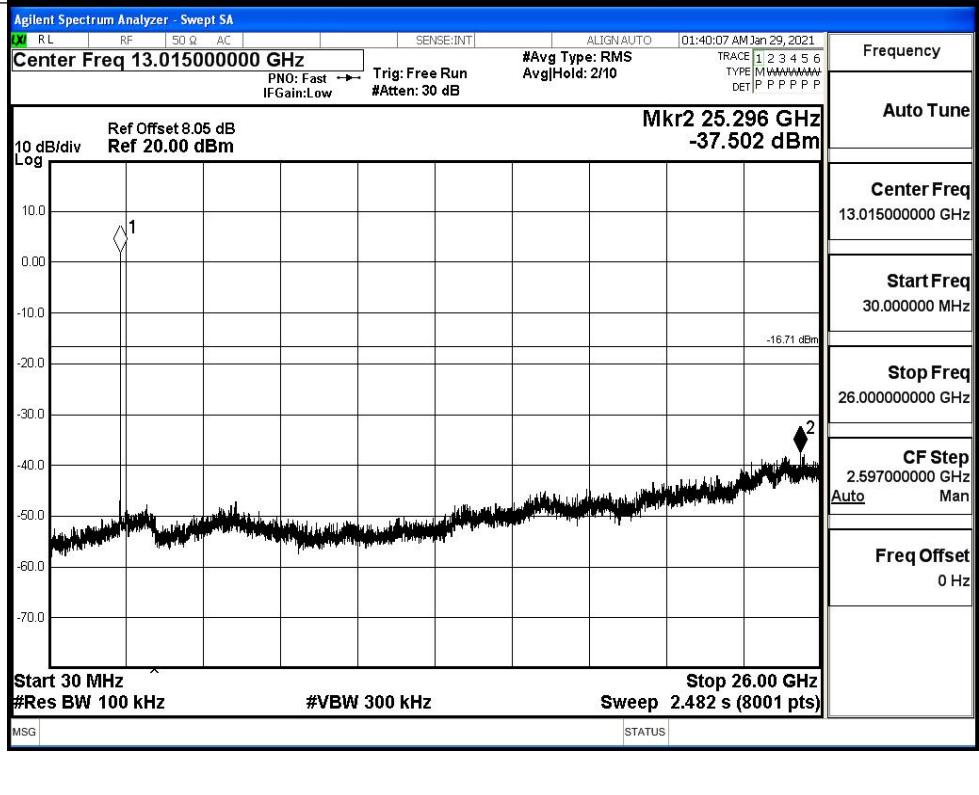


11B MCH Graphs

Pref/11B/MCH

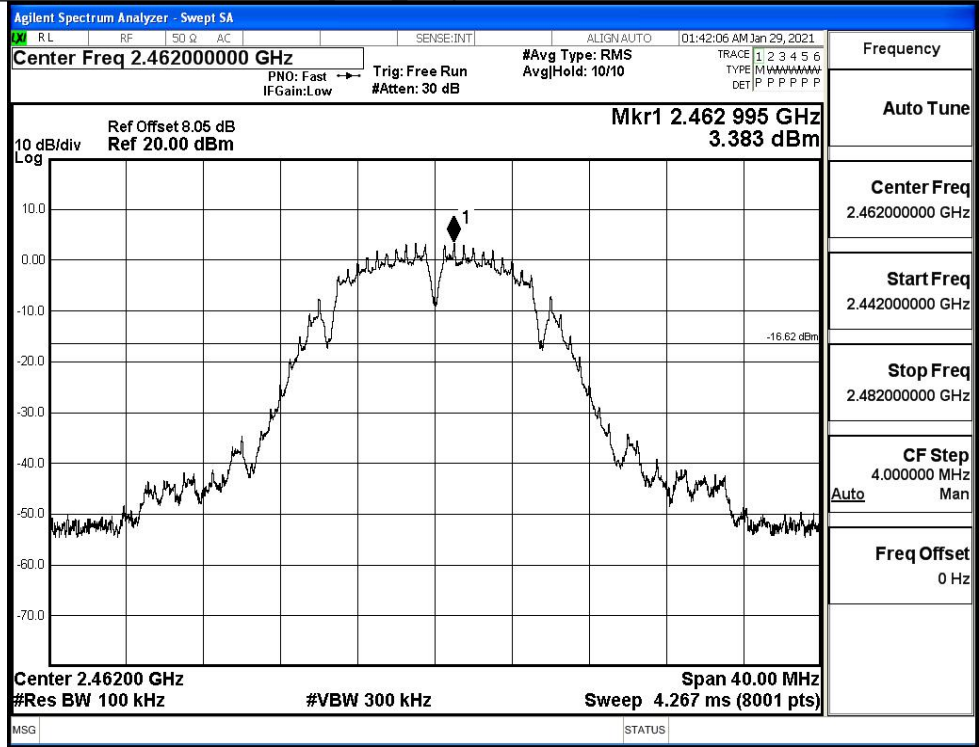


Puw/11B/MCH

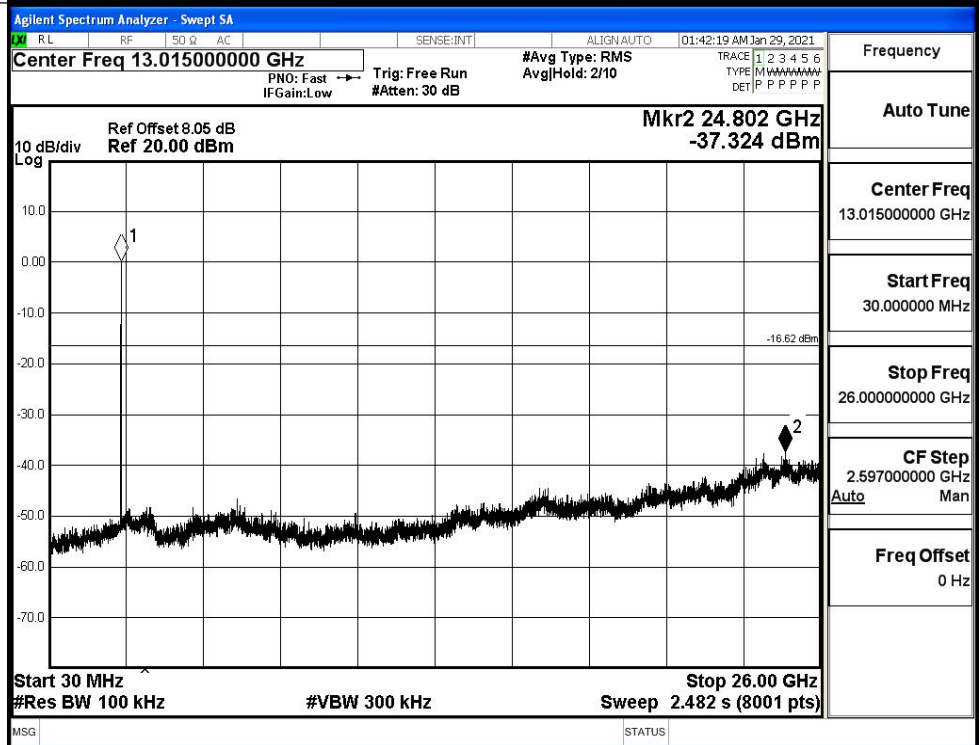


11B HCH Graphs

Pref/11B/HCH

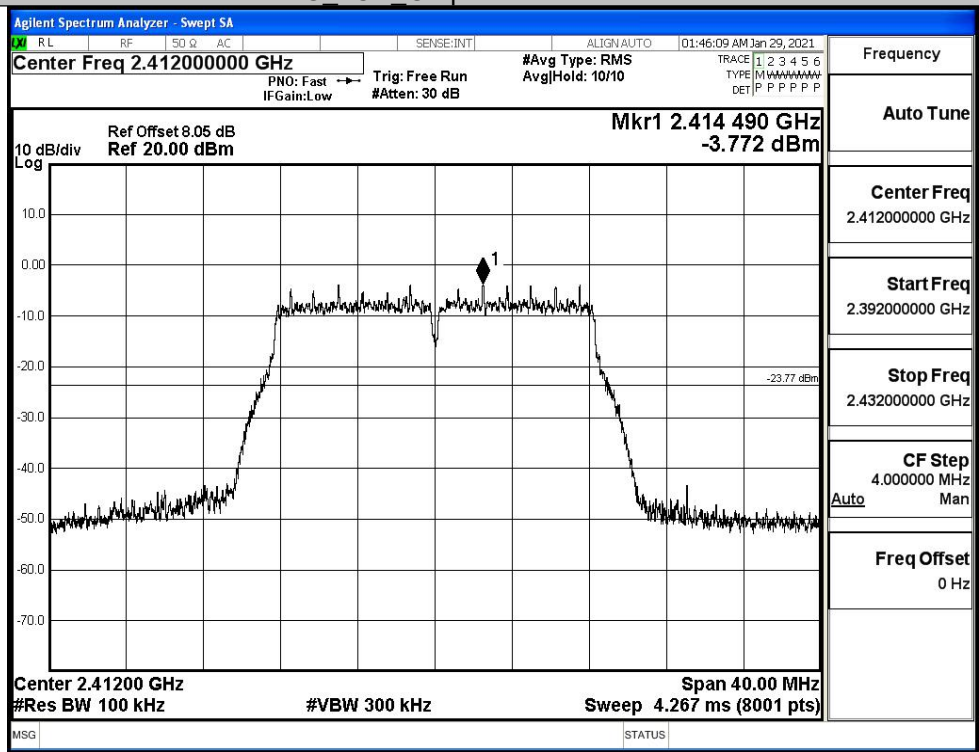


Puw/11B/HCH

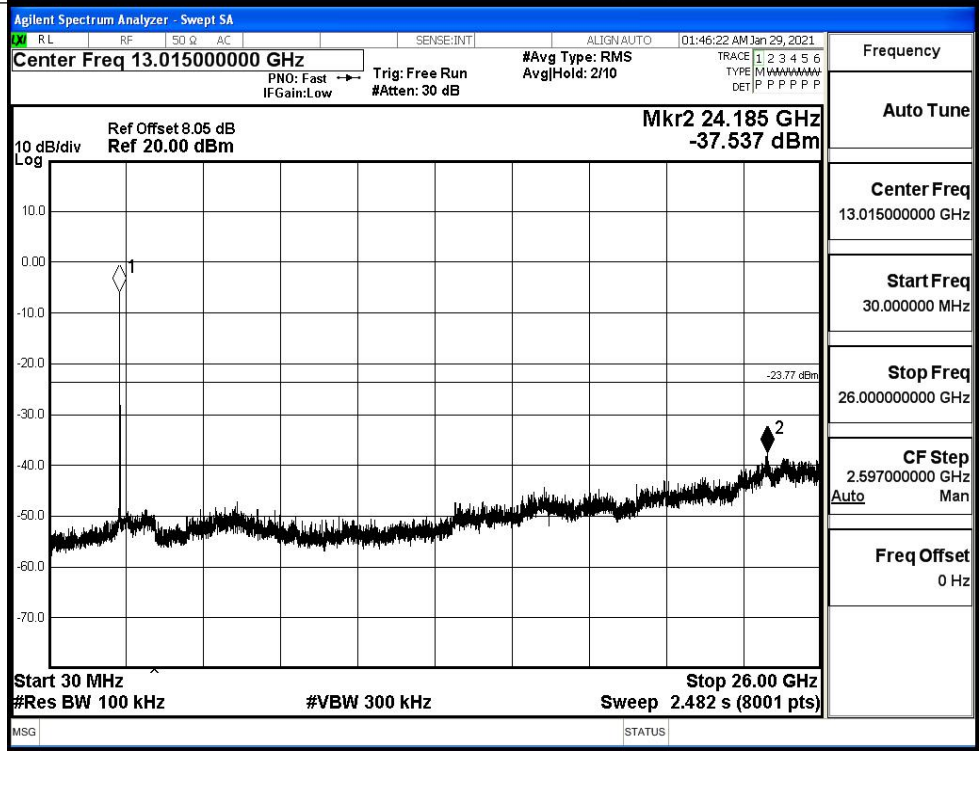


11G LCH Graphs

Pref/11G/LCH

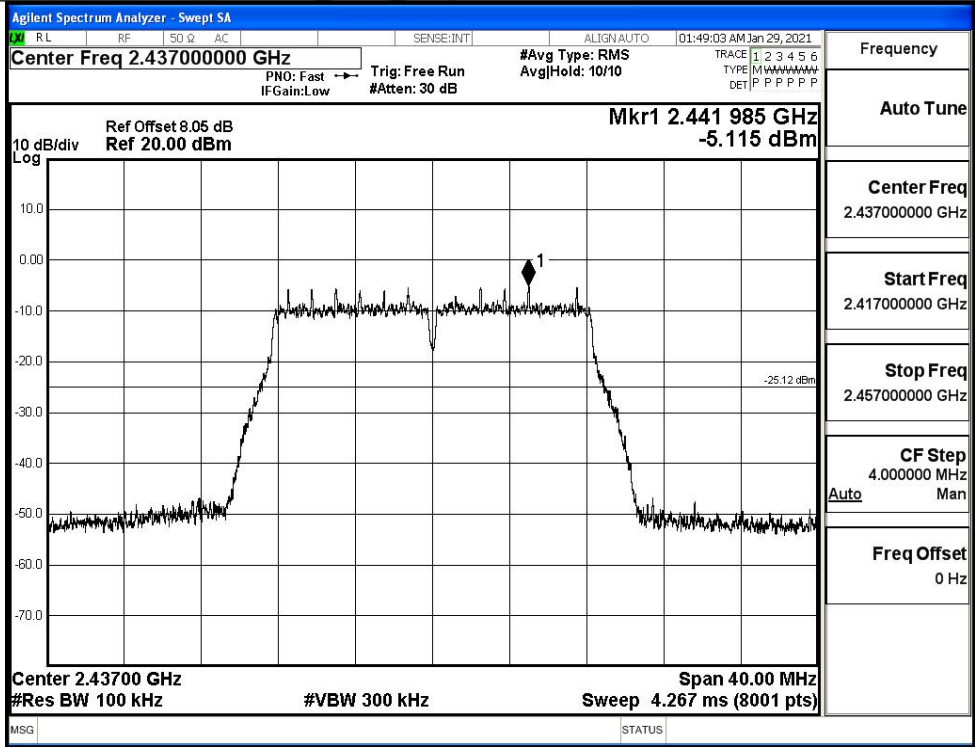


Puw/11G/LCH

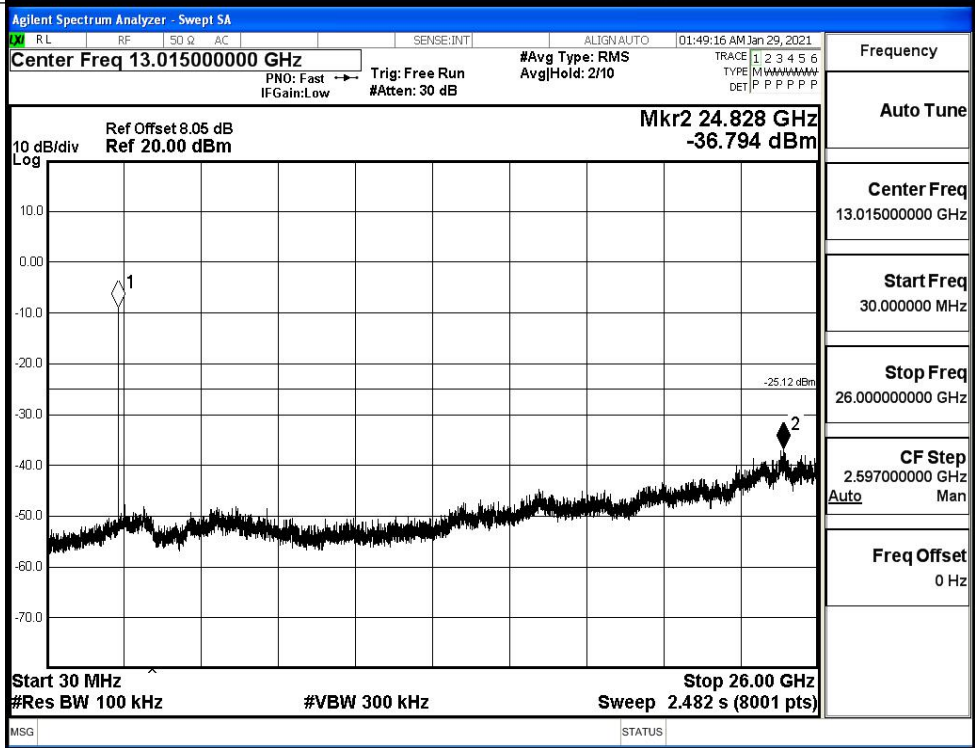


11G MCH Graphs

Pref/11G/MCH

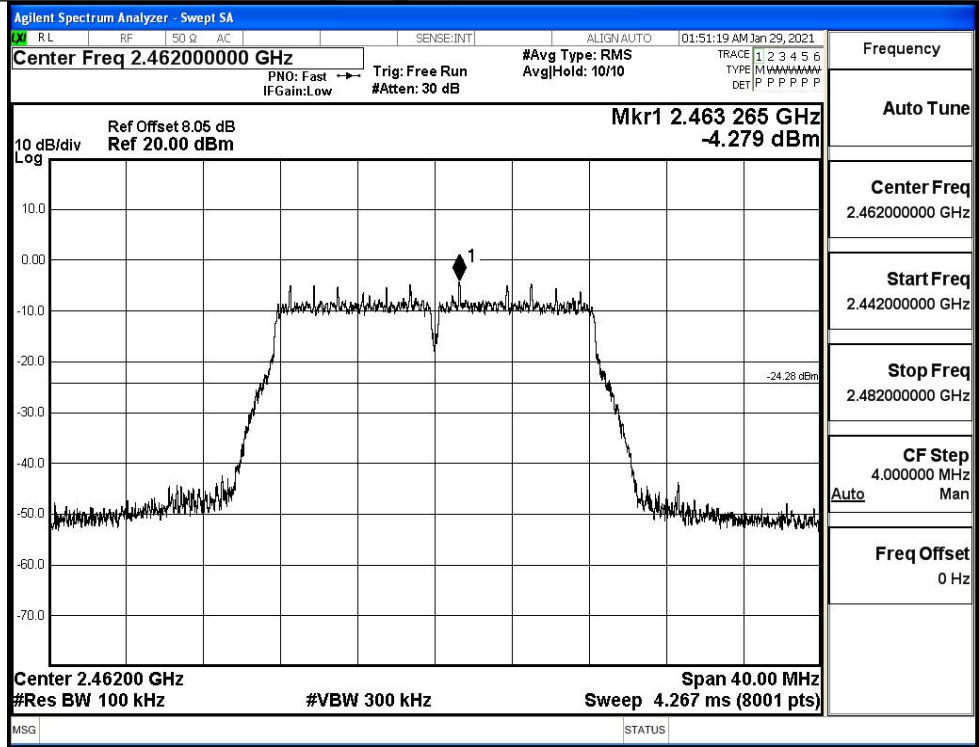


Puw/11G/MCH

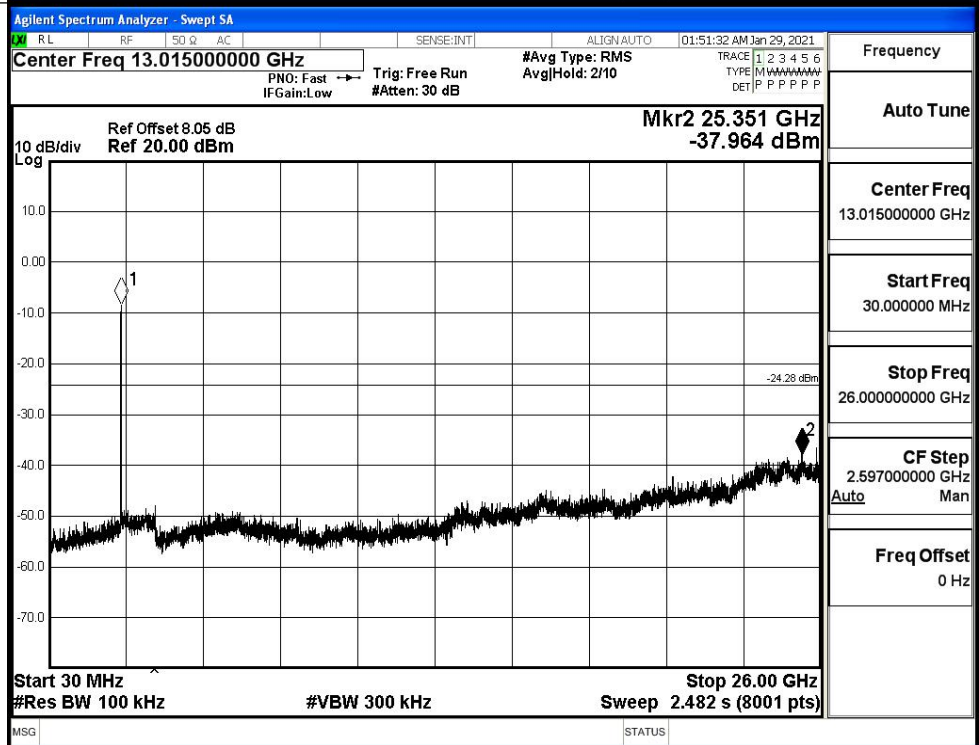


11G HCH Graphs

Pref/11G/HCH

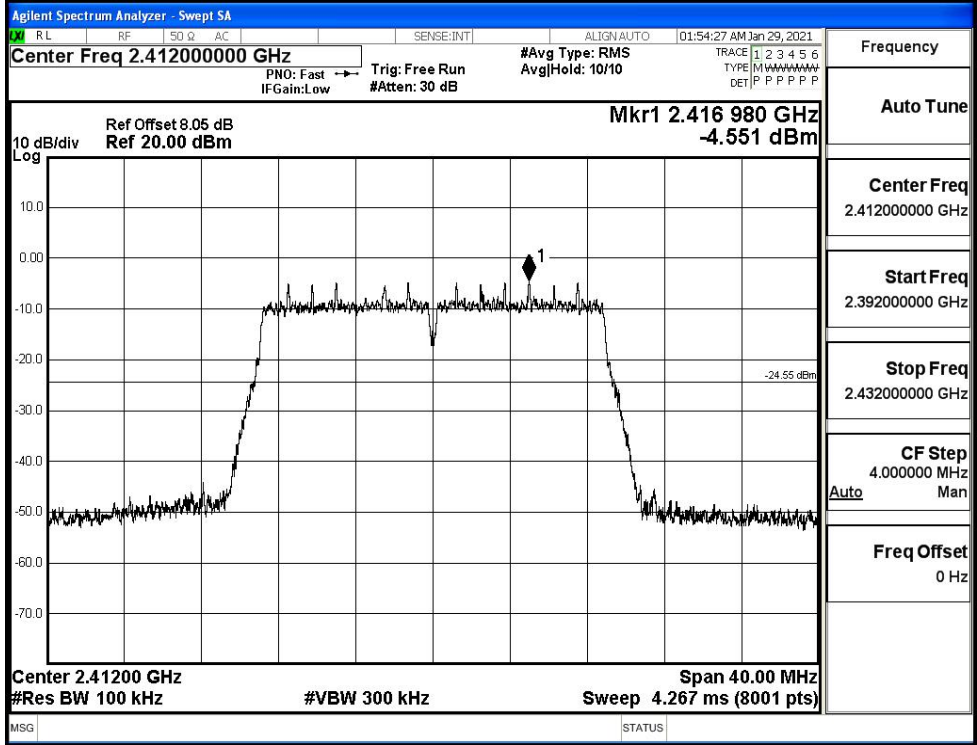


Puw/11G/HCH



11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH



Puw/11N20
SISO/LCH

