

Appendix B
RF Test Data for 2.4G WIFI (Conducted Measurement)
Product Name: Smart light
Trade Mark: N/A
Test Model: SD4015

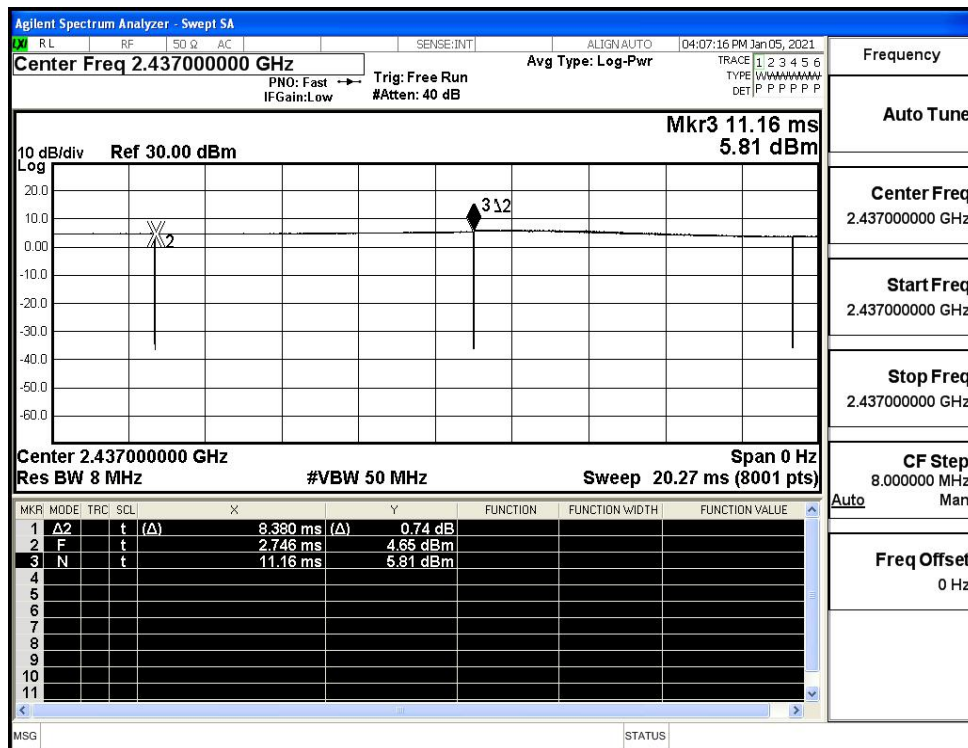
Environmental Conditions

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

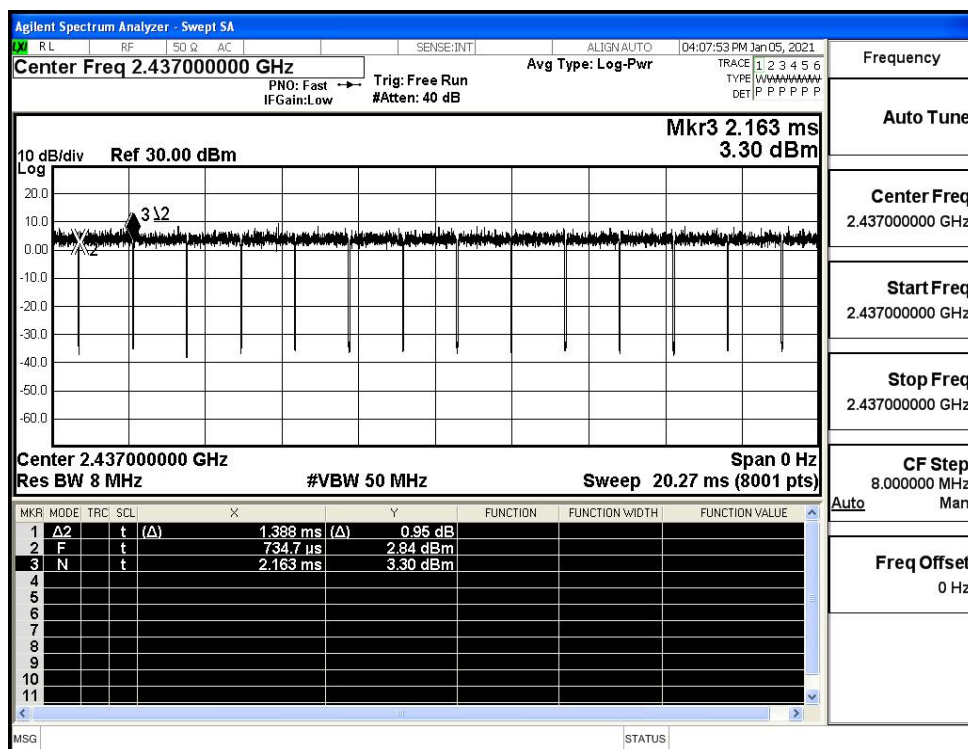
B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	99.61	PASS
11G	2437	Ant1	97.16	PASS
11N20SISO	2437	Ant1	96.96	PASS

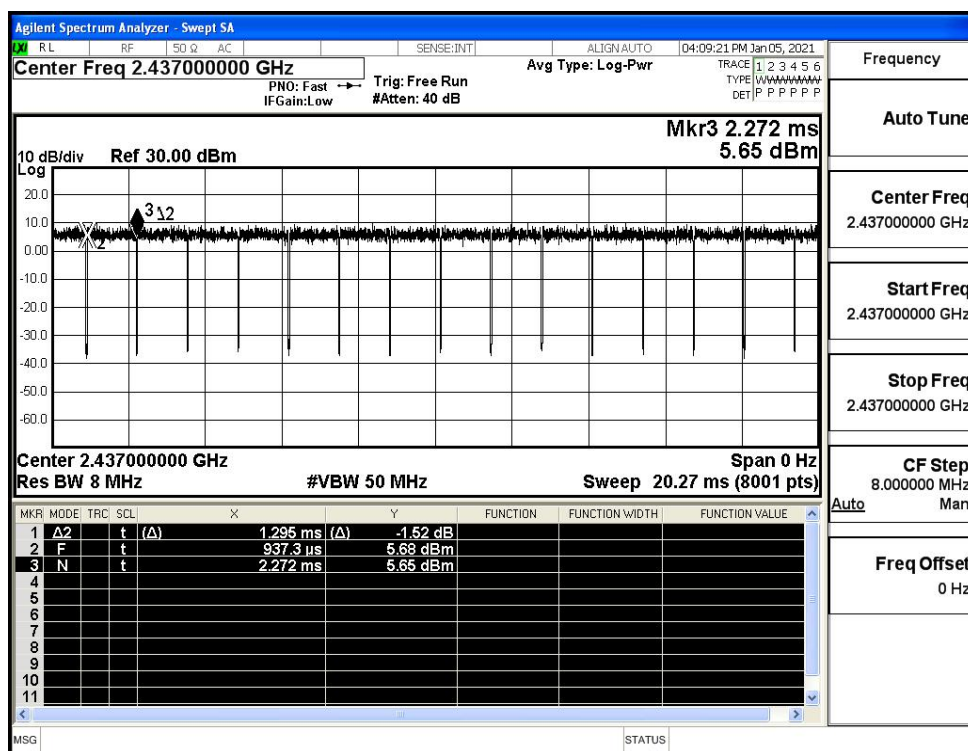
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

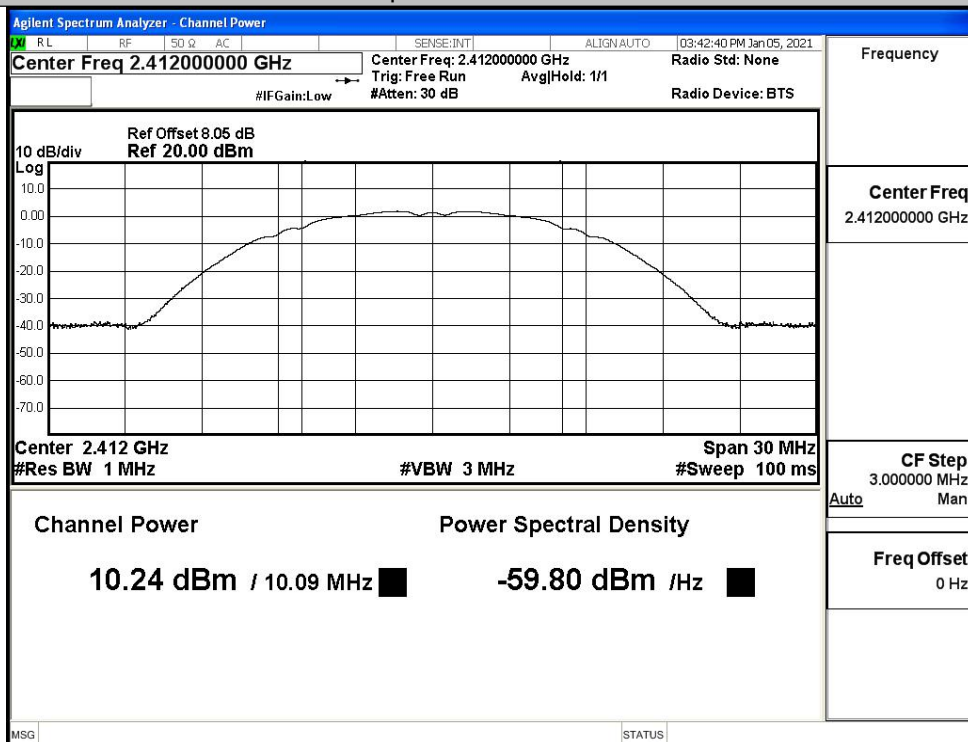


B.2 Maximum Conducted Output Power

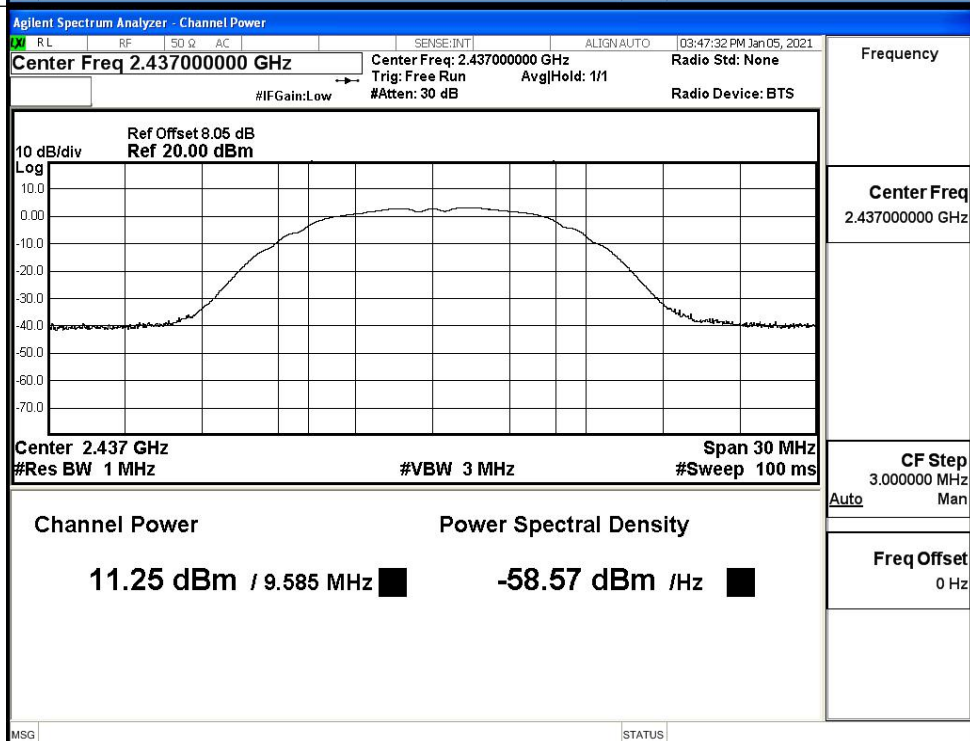
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.24	30	PASS
	MCH	11.25	30	PASS
	HCH	10.60	30	PASS
11G	LCH	16.43	30	PASS
	MCH	16.68	30	PASS
	HCH	16.82	30	PASS
11N20SISO	LCH	16.46	30	PASS
	MCH	16.67	30	PASS
	HCH	16.78	30	PASS

Test Graphs

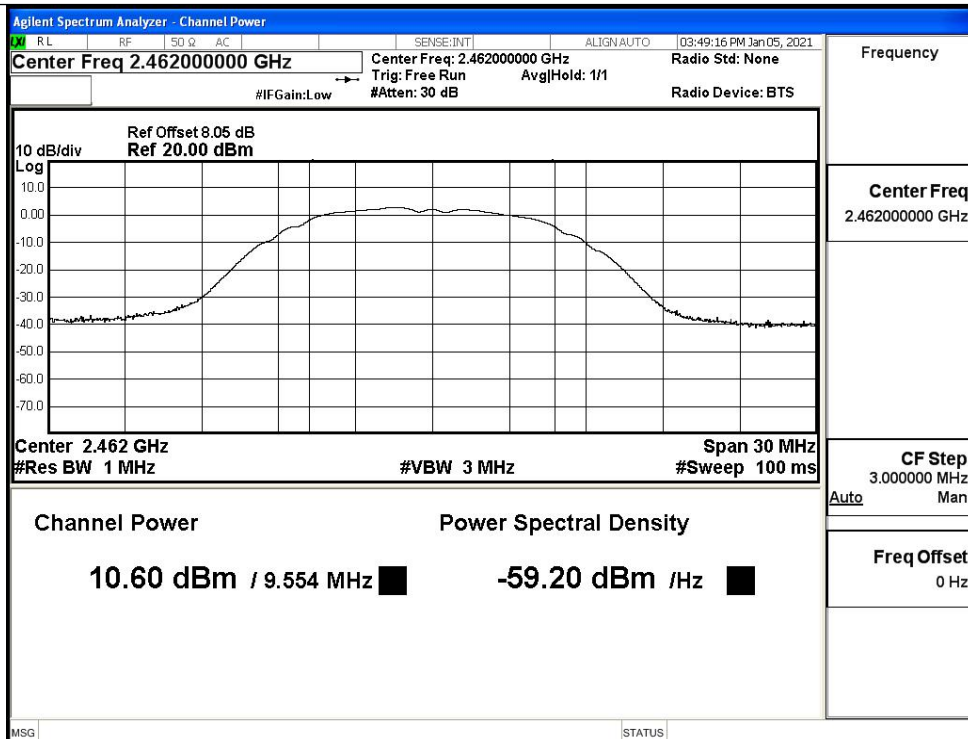
11B/LCH



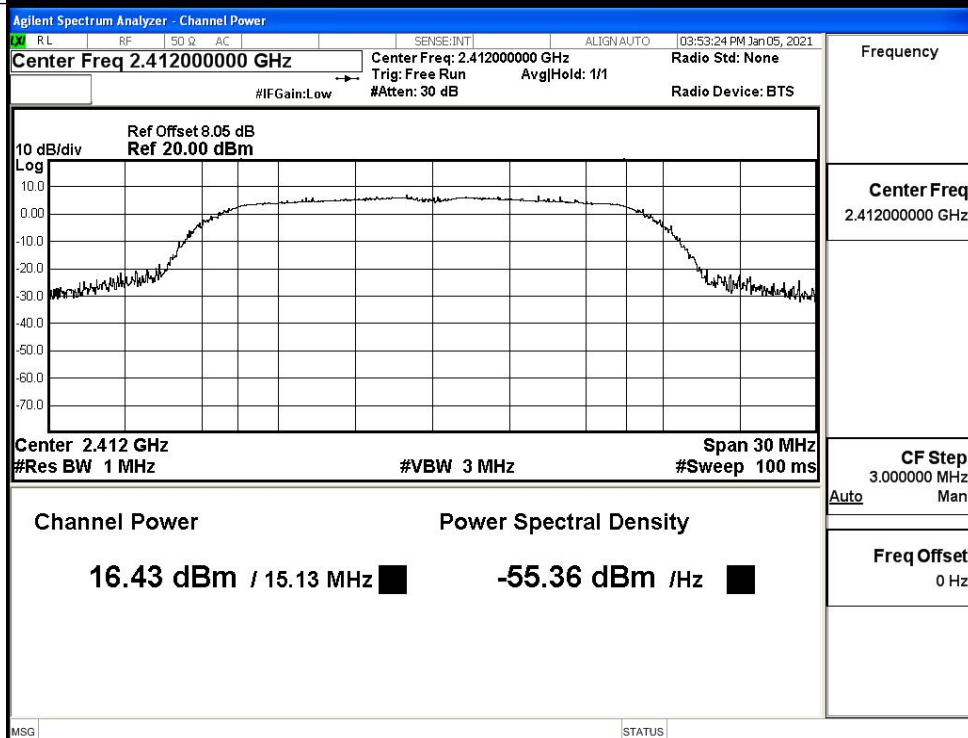
11B/MCH



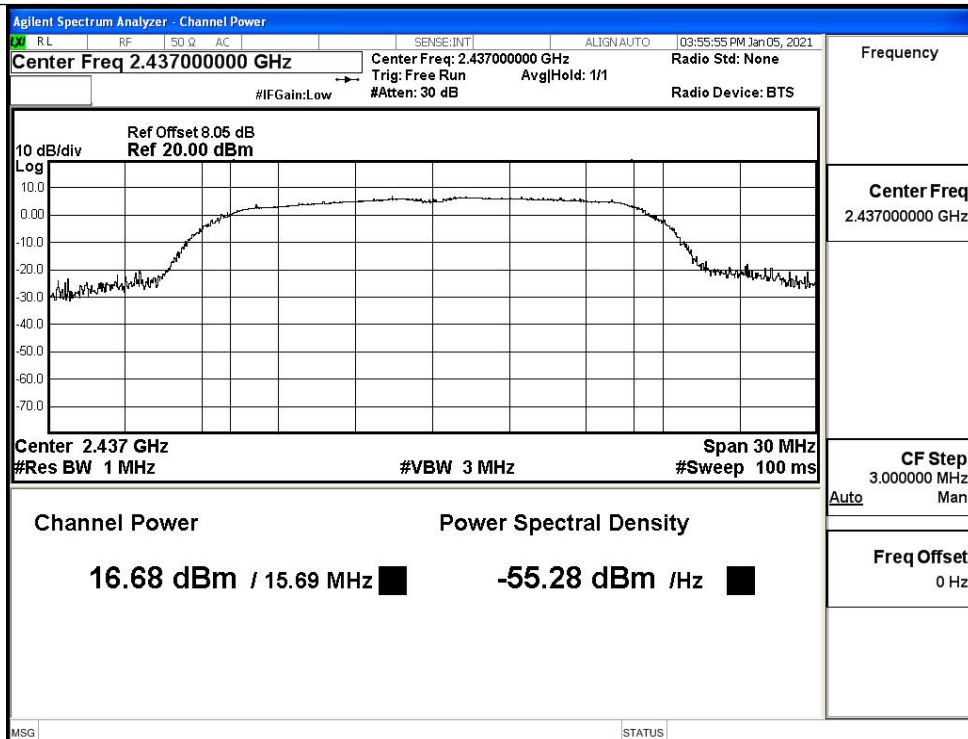
11B/HCH



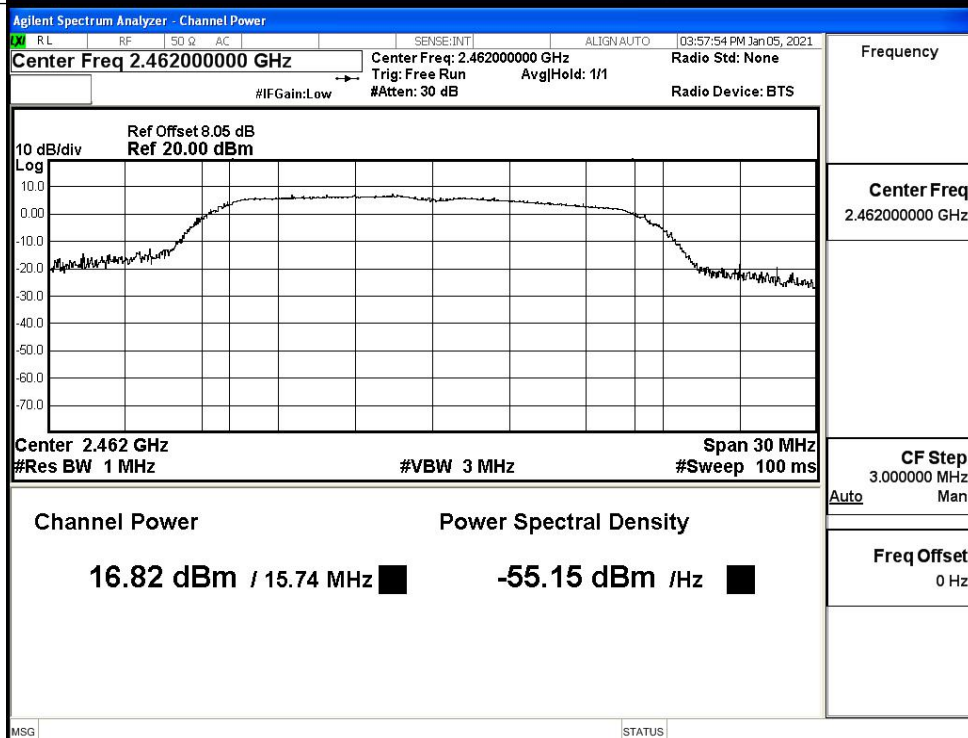
11G/LCH



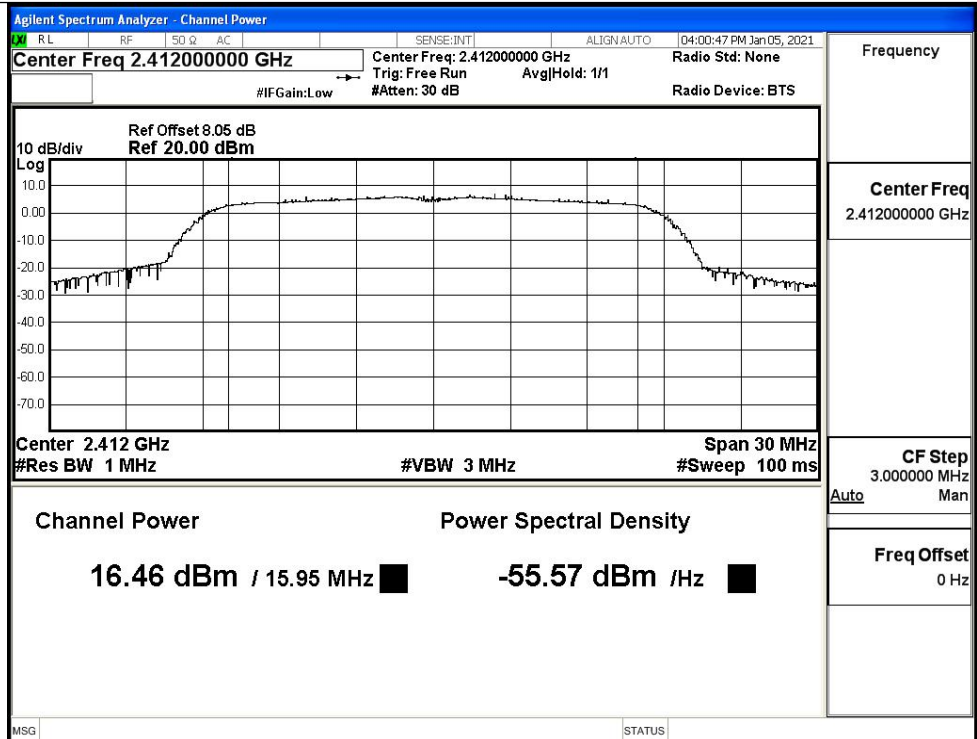
11G/MCH



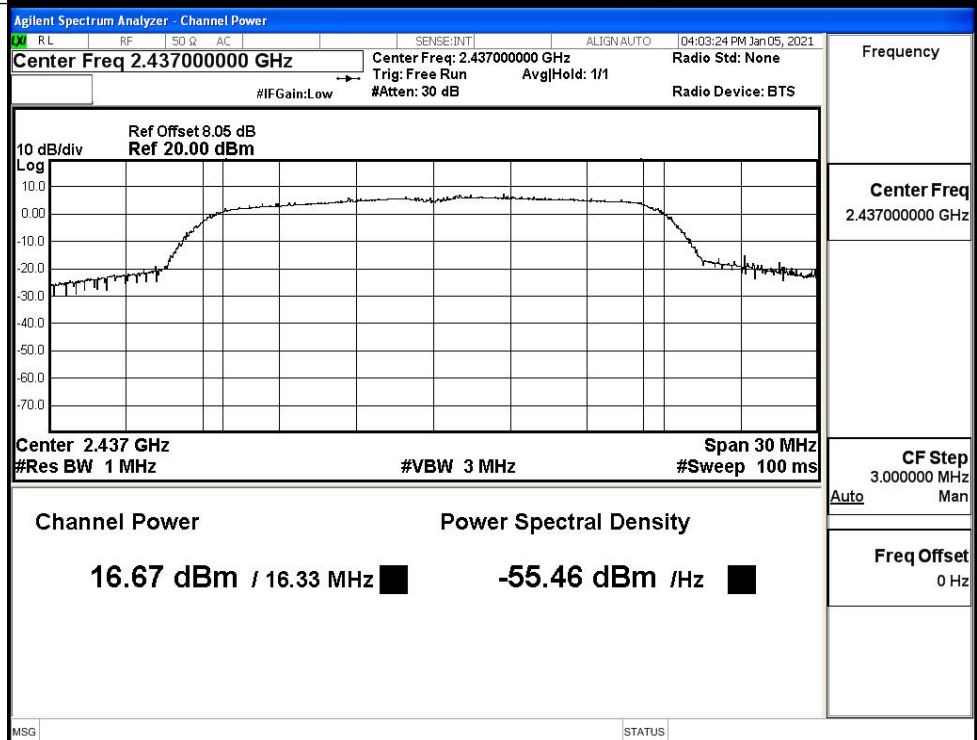
11G/HCH



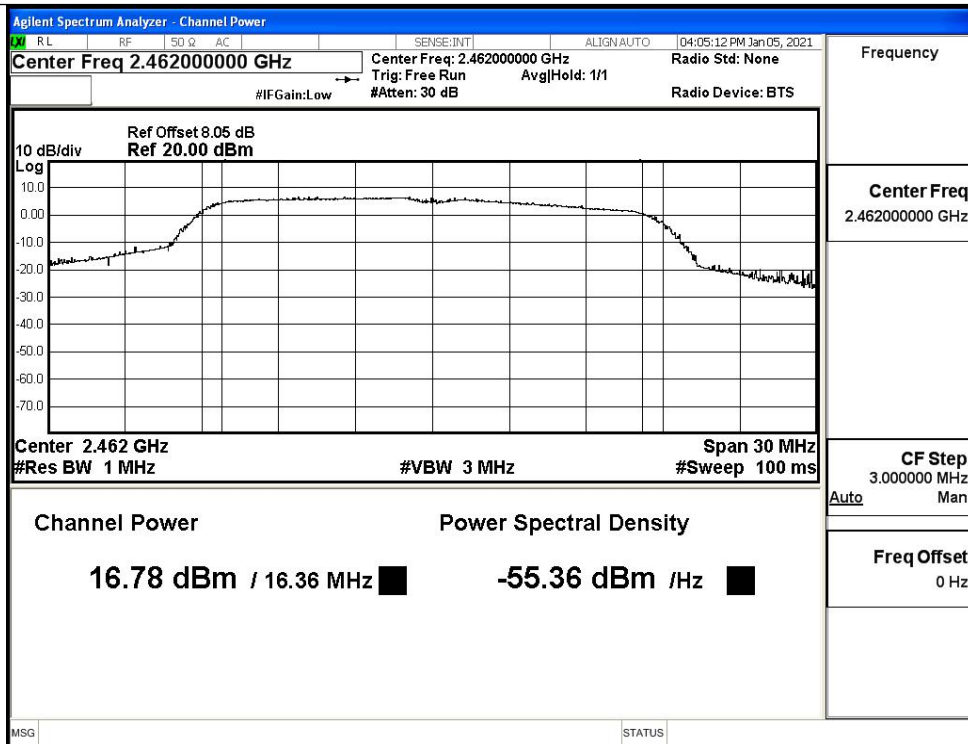
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

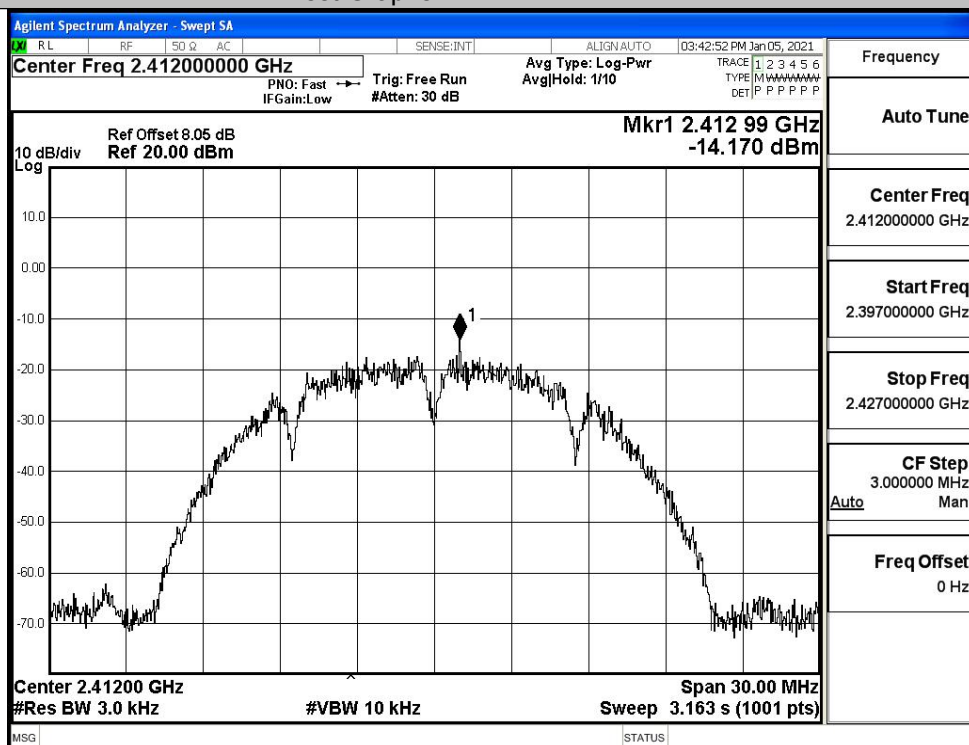


B.3 Maximum Power Spectral Density

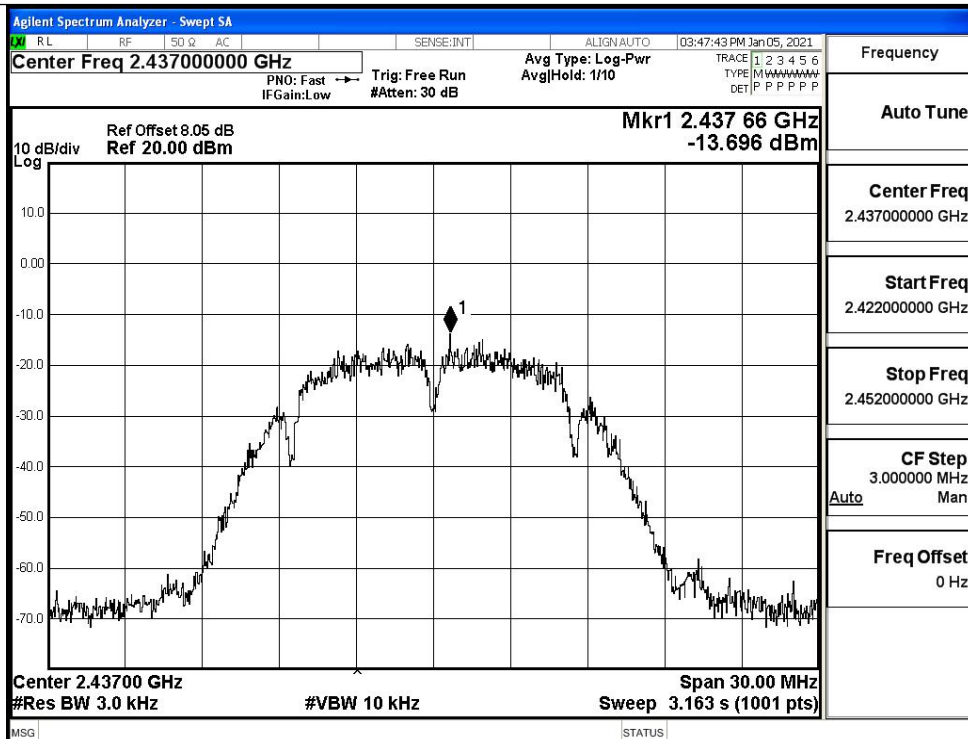
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-14.170	8	PASS
	MCH	-13.696	8	PASS
	HCH	-16.128	8	PASS
11G	LCH	-17.143	8	PASS
	MCH	-16.694	8	PASS
	HCH	-16.468	8	PASS
11N20SISO	LCH	-17.187	8	PASS
	MCH	-16.407	8	PASS
	HCH	-15.926	8	PASS

Test Graphs

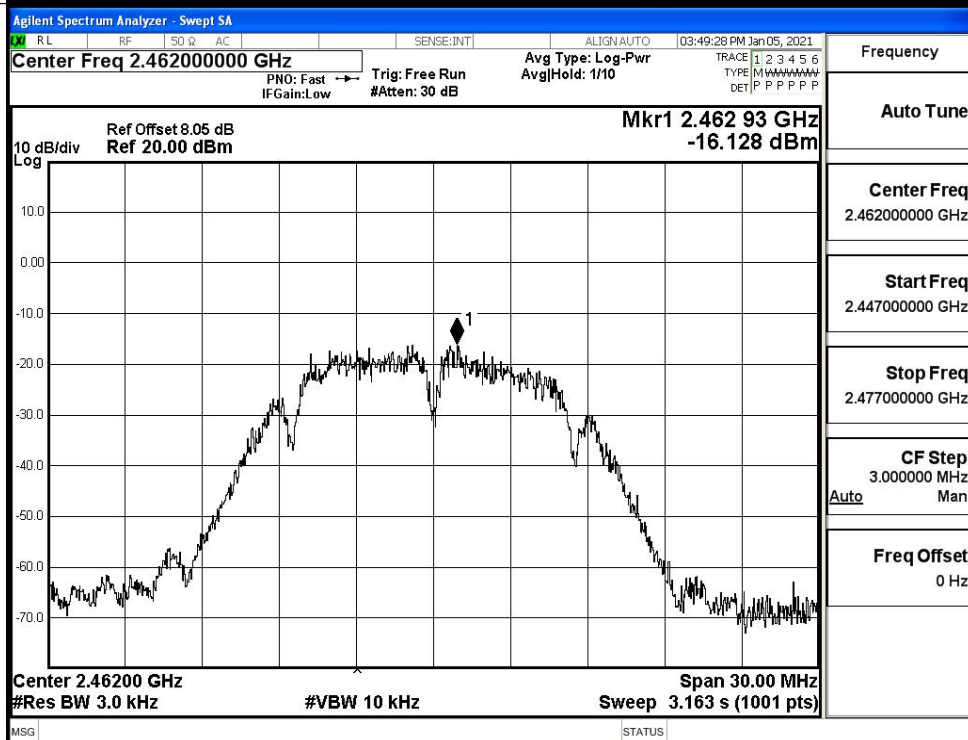
11B/LCH



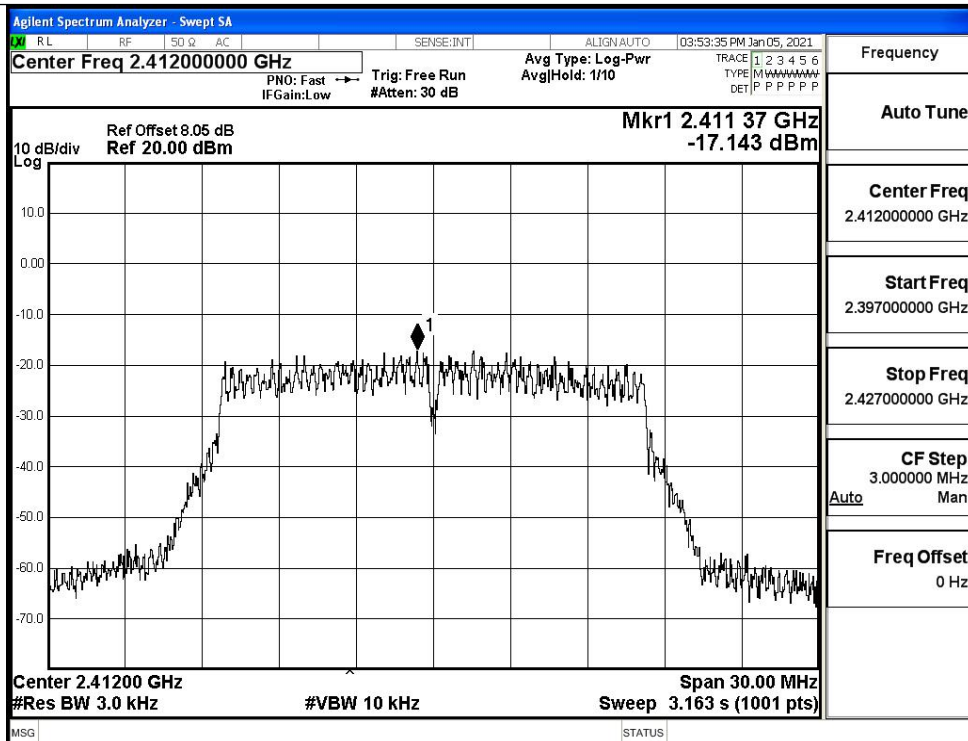
11B/MCH



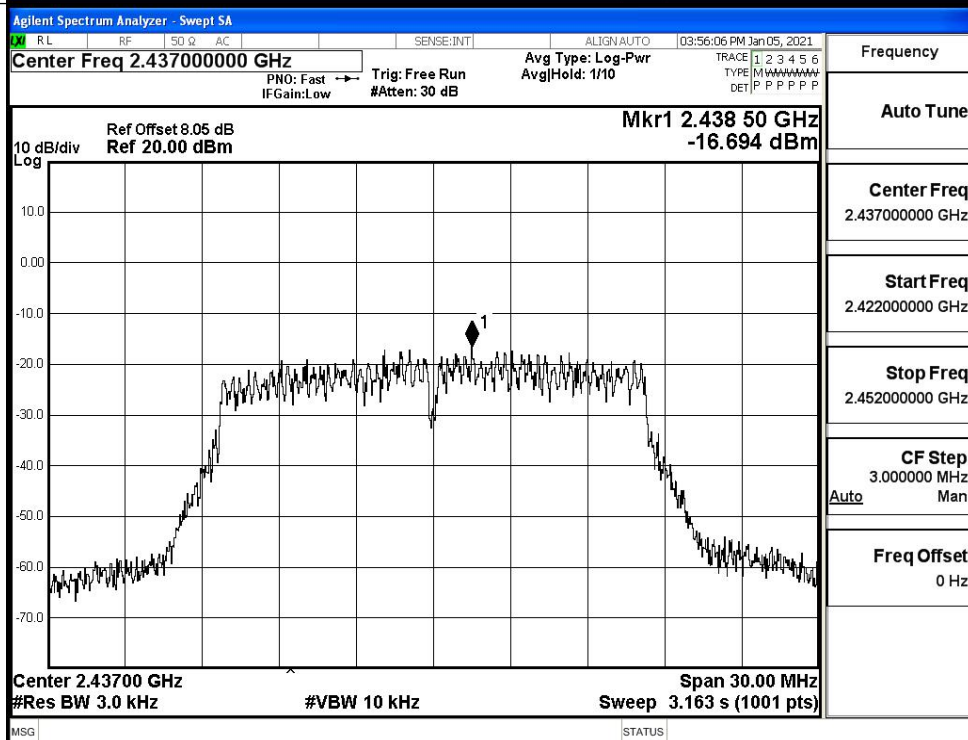
11B/HCH



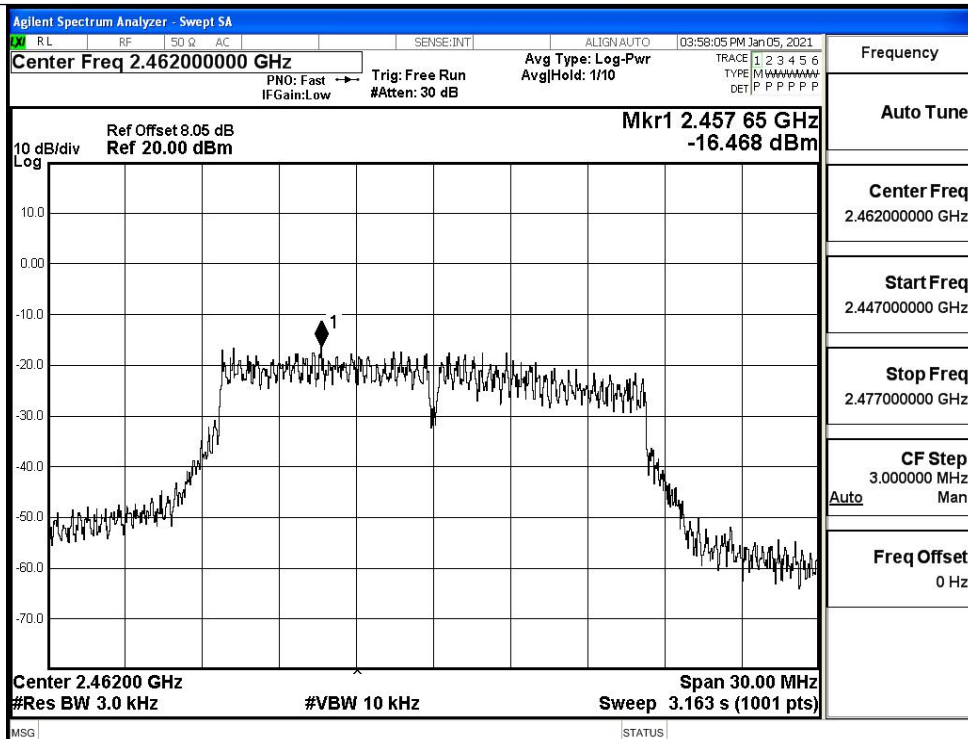
11G/LCH



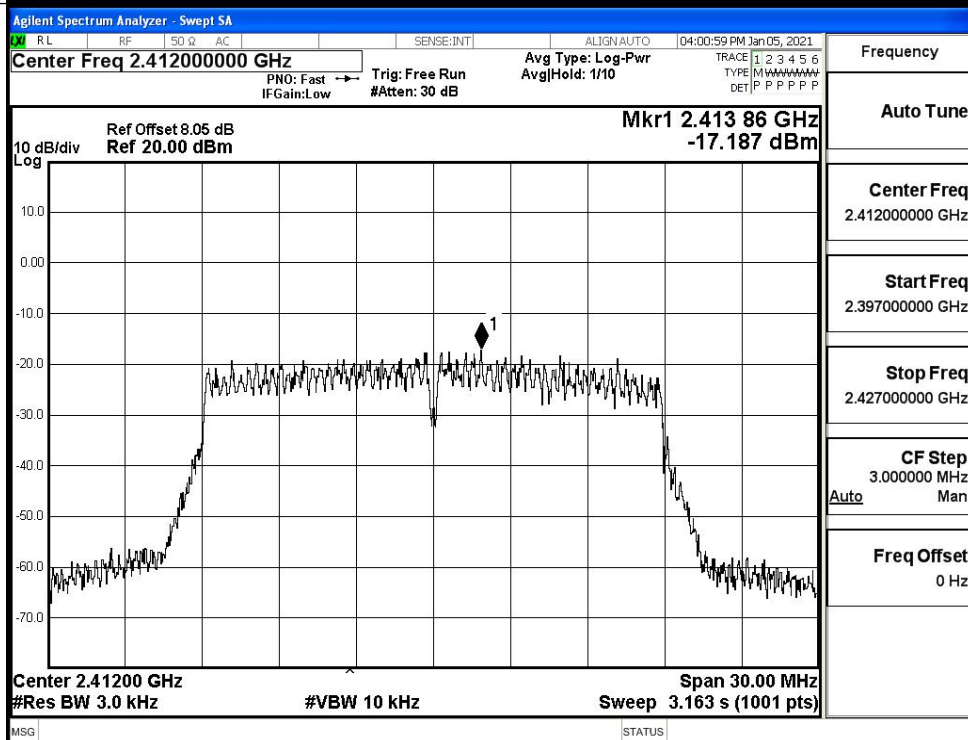
11G/MCH



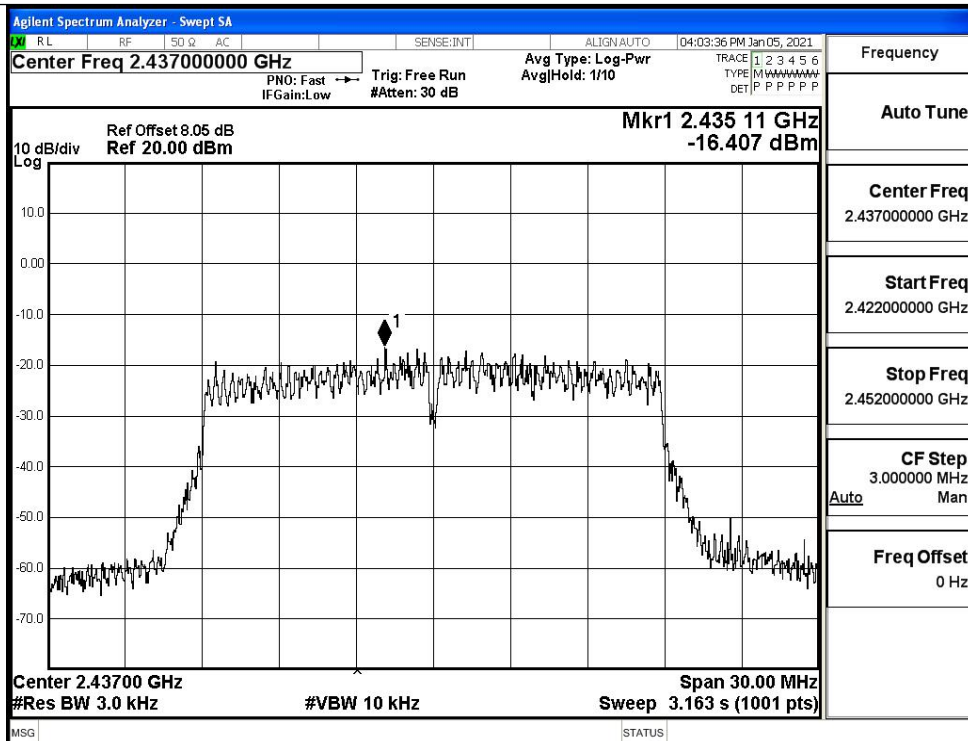
11G/HCH



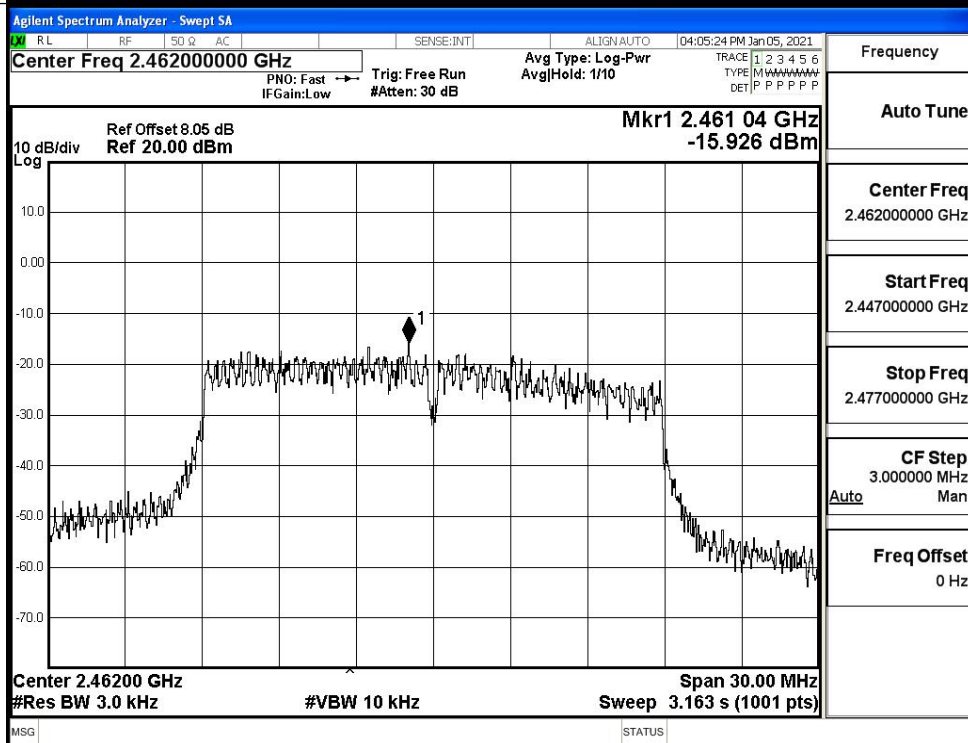
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

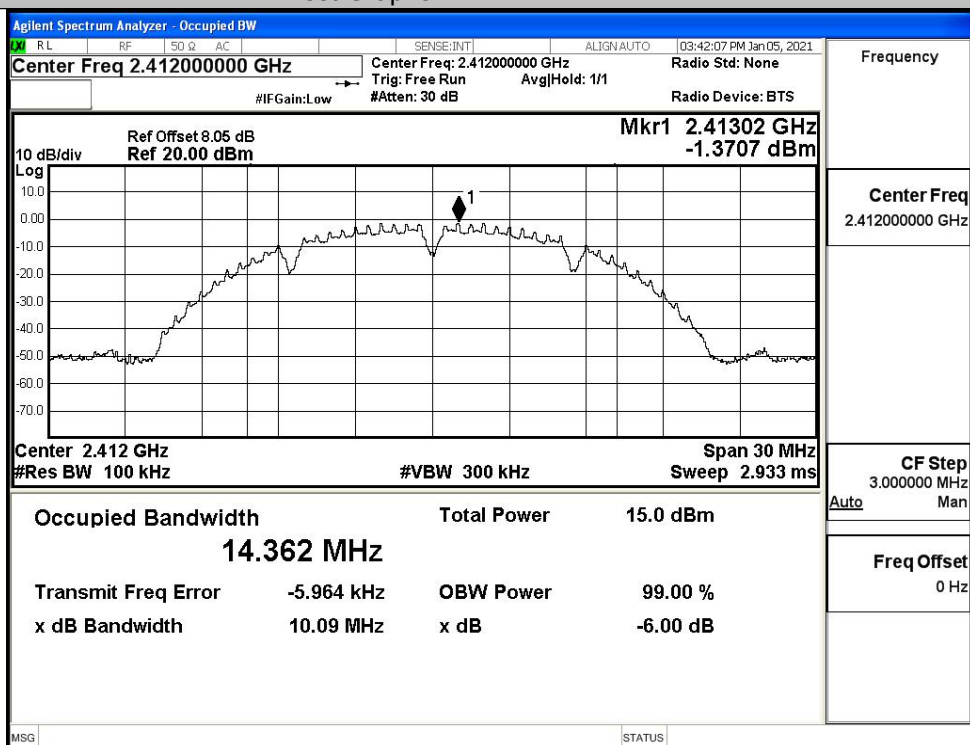


B.4 6dB Bandwidth

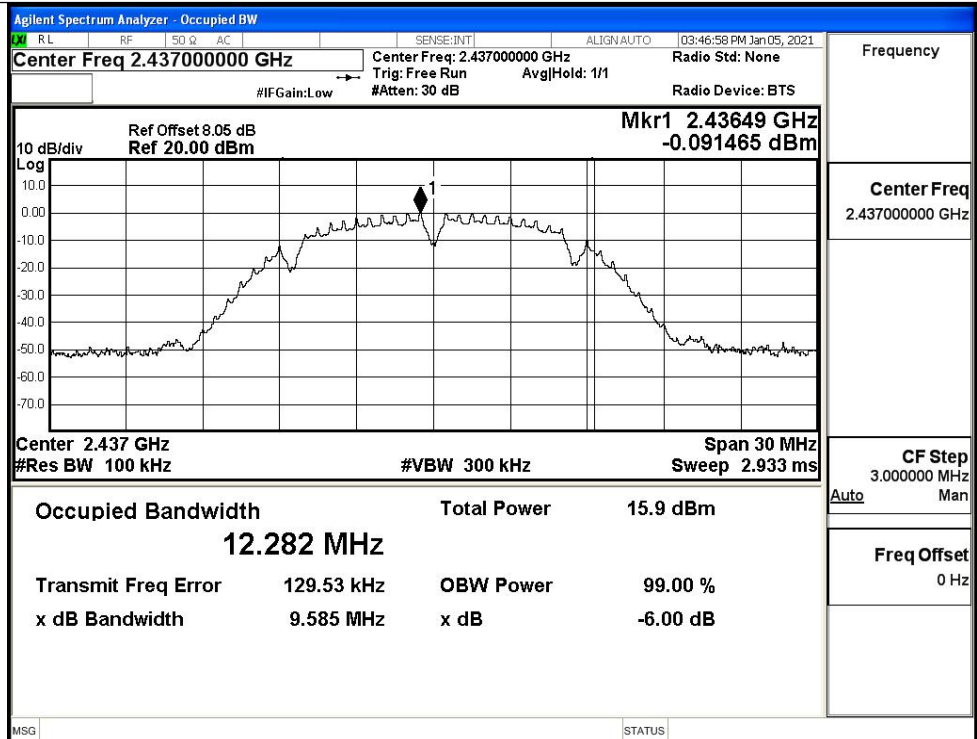
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.09	≥ 0.5	PASS
	MCH	9.585	≥ 0.5	PASS
	HCH	9.554	≥ 0.5	PASS
11G	LCH	15.13	≥ 0.5	PASS
	MCH	15.69	≥ 0.5	PASS
	HCH	15.74	≥ 0.5	PASS
11N20SISO	LCH	15.95	≥ 0.5	PASS
	MCH	16.33	≥ 0.5	PASS
	HCH	16.36	≥ 0.5	PASS

Test Graphs

11B/LCH



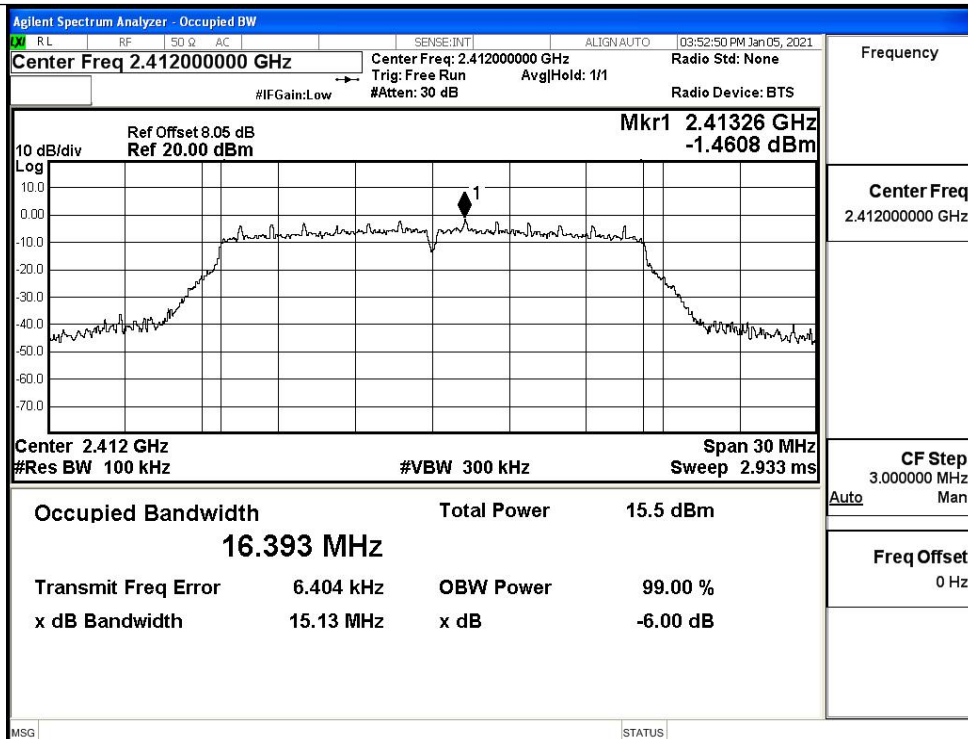
11B/MCH



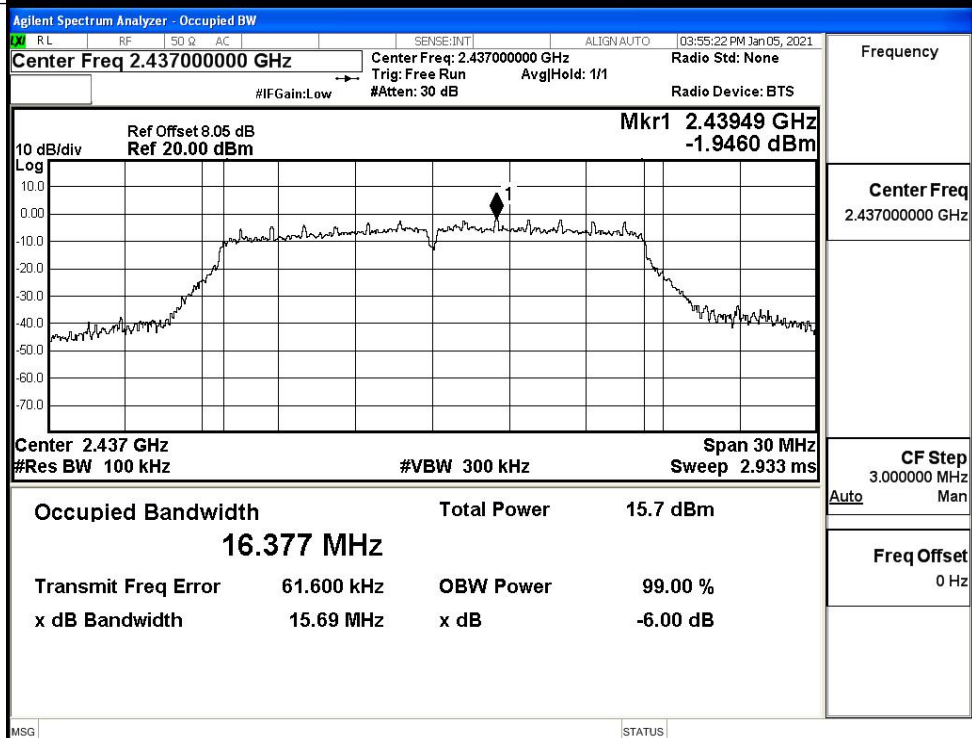
11B/HCH



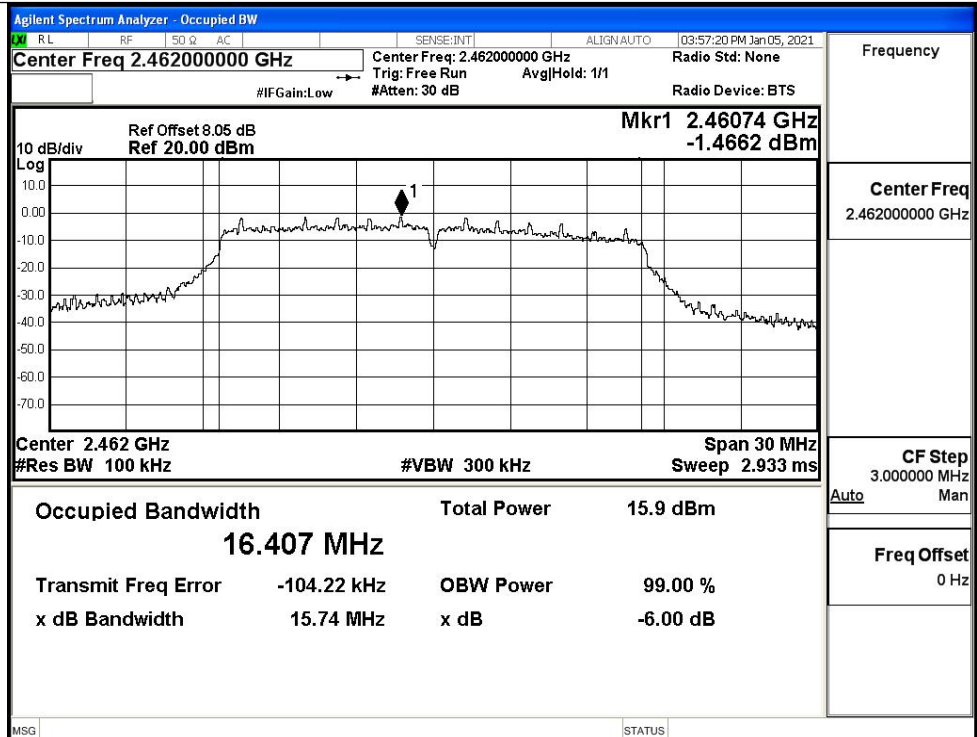
11G/LCH



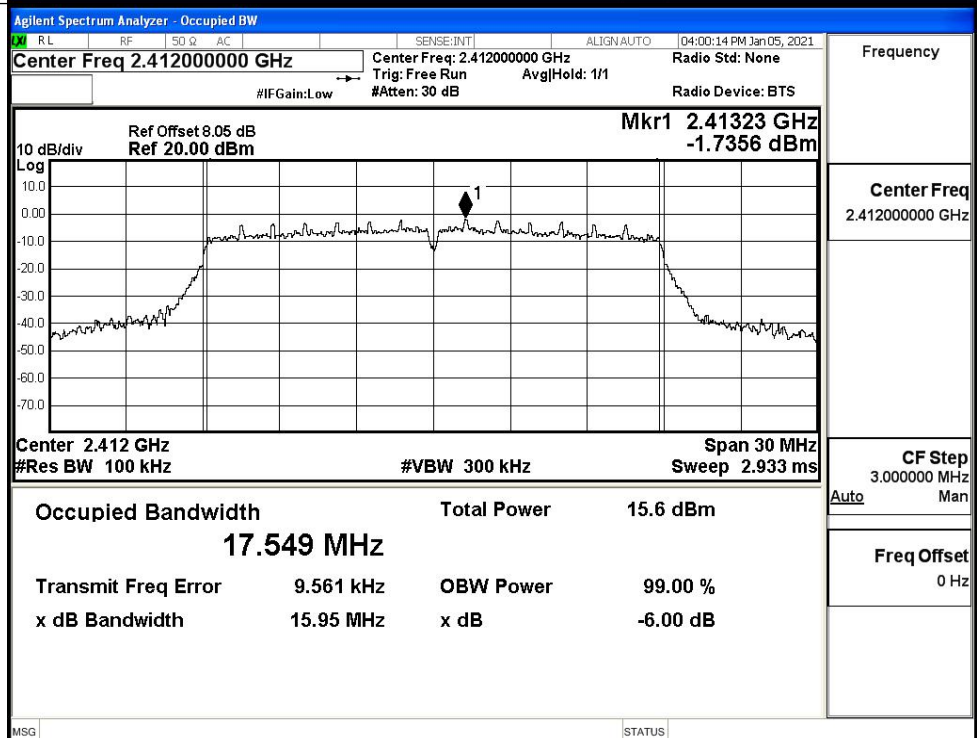
11G/MCH



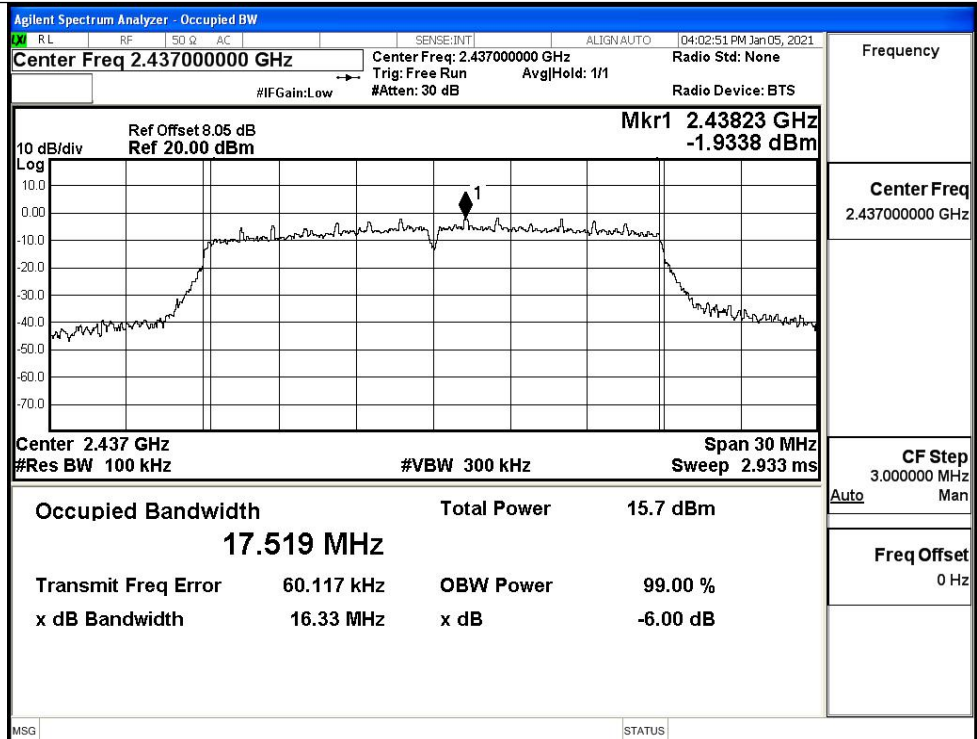
11G/HCH



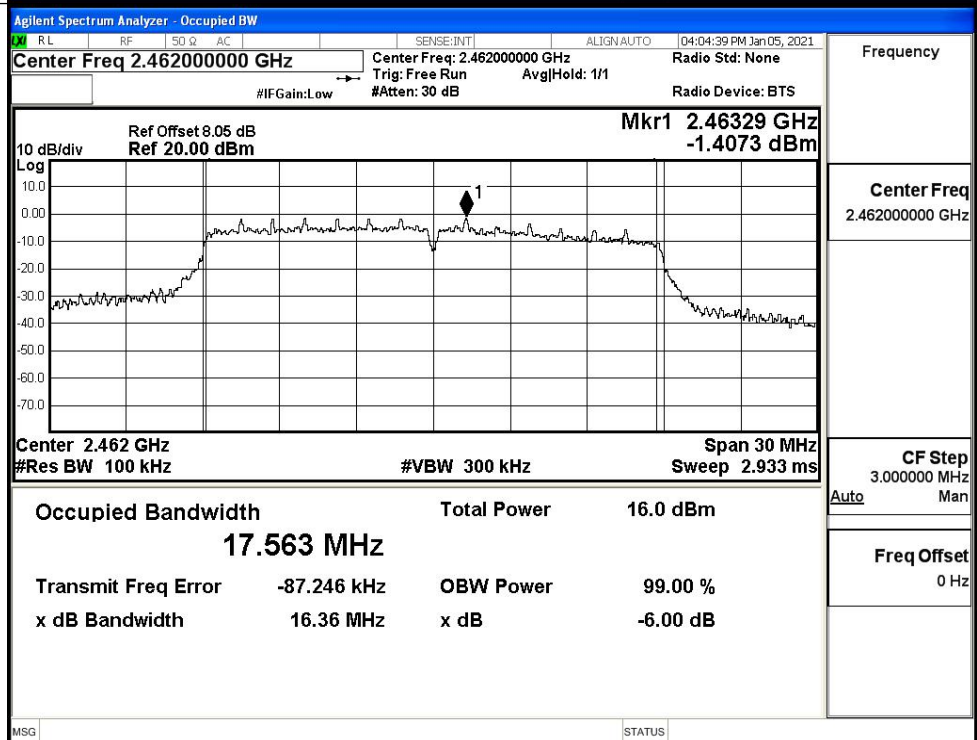
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

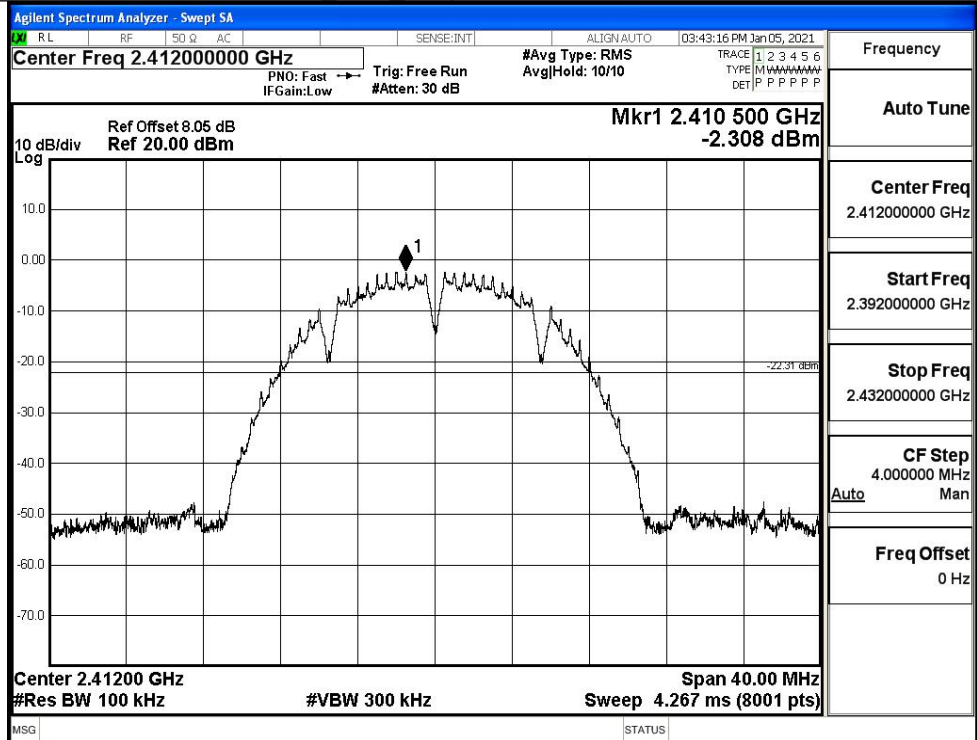


B.5 RF Conducted Spurious Emissions

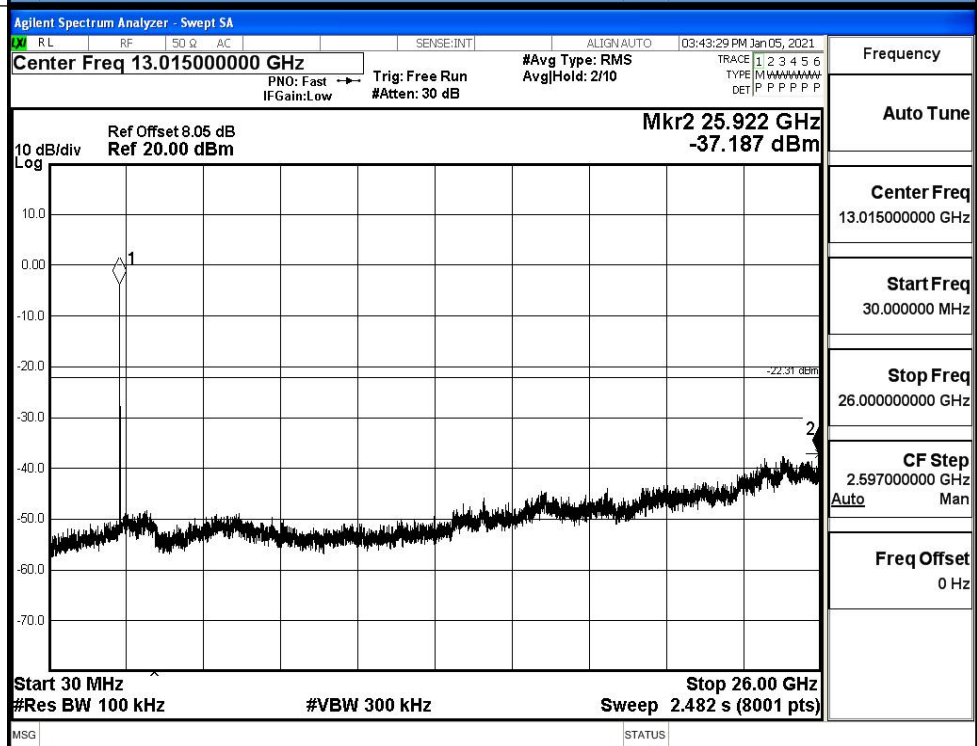
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.308	-37.187	-22.308	PASS
	MCH	0.153	-37.383	-19.847	PASS
	HCH	-0.884	-38.126	-20.884	PASS
11G	LCH	-1.431	-37.732	-21.431	PASS
	MCH	-1.08	-38.124	-21.080	PASS
	HCH	-1.417	-37.356	-21.417	PASS
11N20 SISO	LCH	-1.884	-38.765	-21.884	PASS
	MCH	-1.089	-37.604	-21.089	PASS
	HCH	-1.395	-38.684	-21.395	PASS

11B LCH Graphs

Pref/11B/LCH

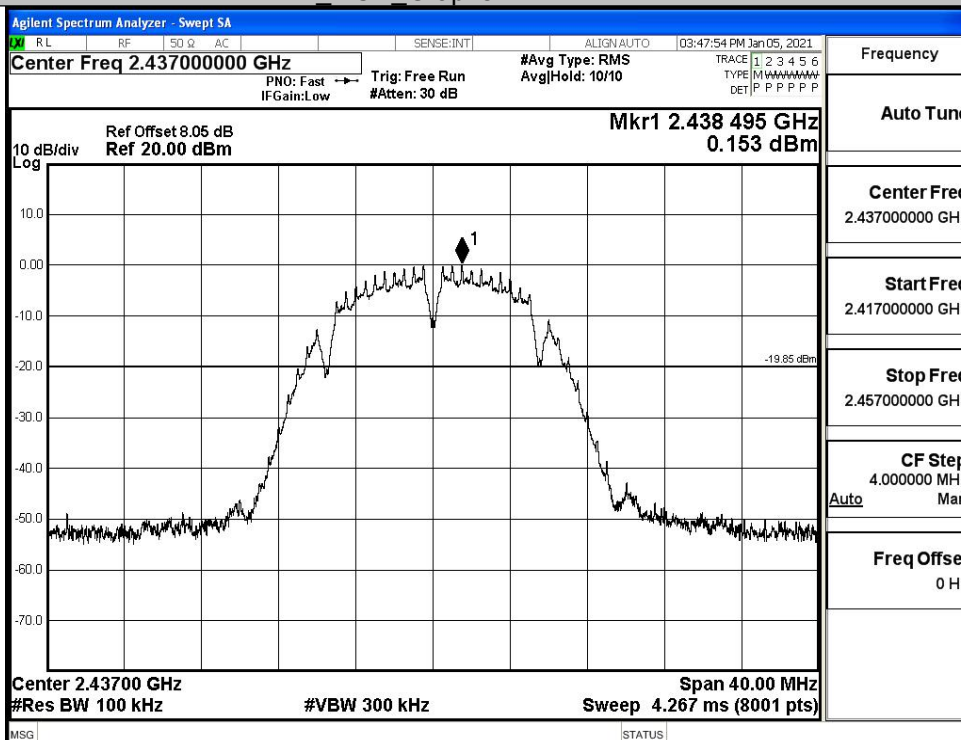


Puw/11B/LCH



11B MCH Graphs

Pref/11B/MCH



Puw/11B/MCH

