

Appendix B
RF Test Data for 2.4G WIFI (Conducted Measurement)
Product Name: Smart light
Trade Mark: N/A
Test Model: SF5024

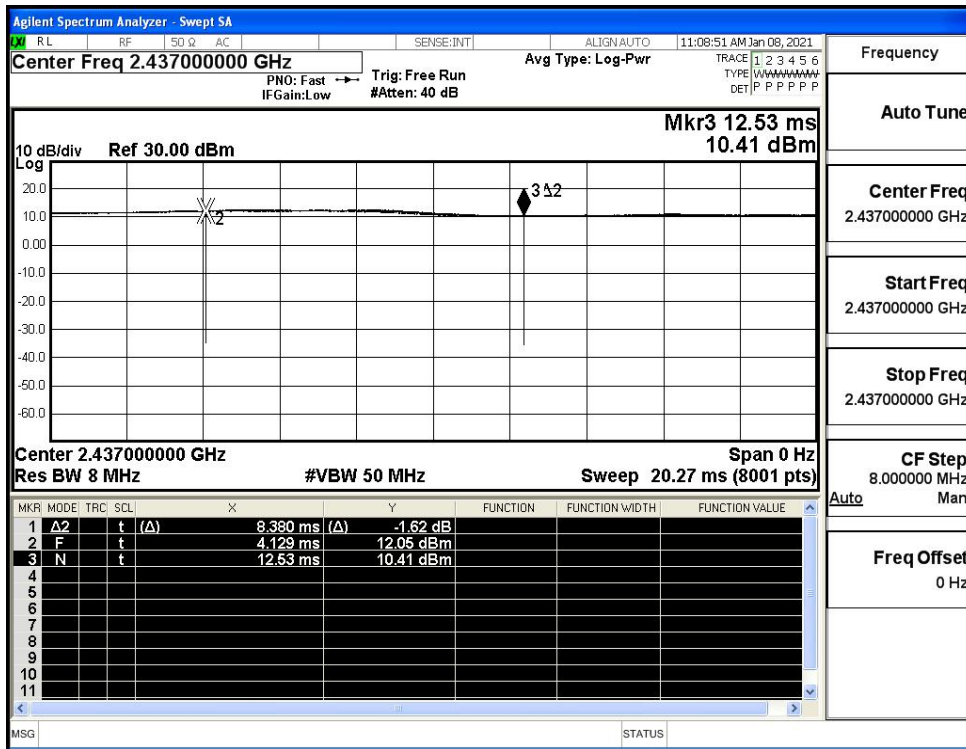
Environmental Conditions

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

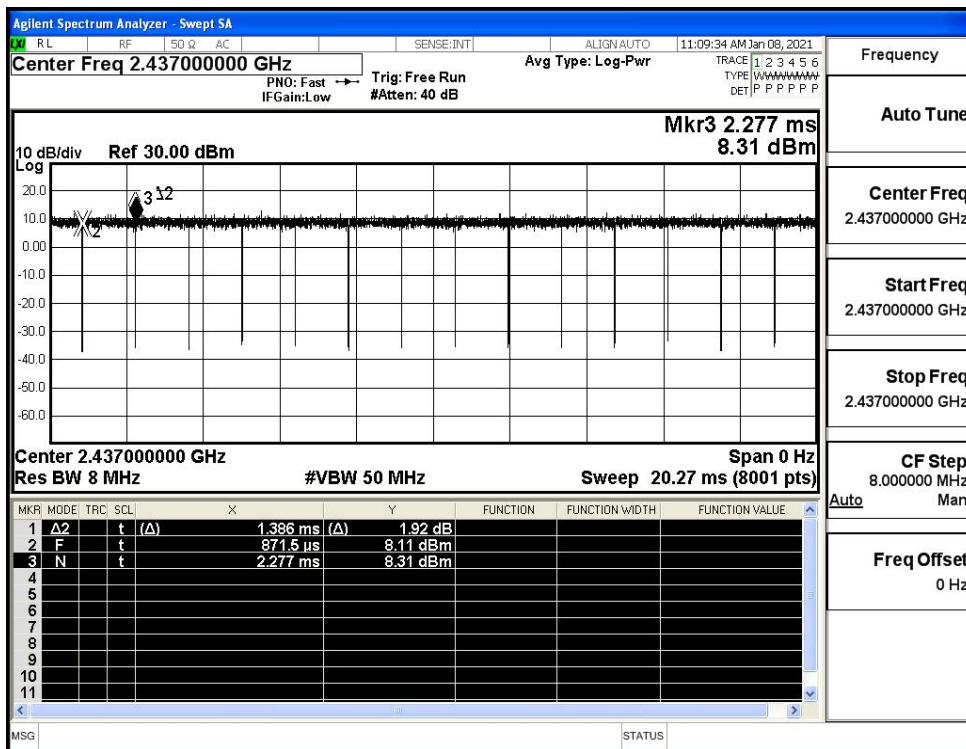
B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	99.79	PASS
11G	2437	Ant1	98.56	PASS
11N20SISO	2437	Ant1	98.65	PASS

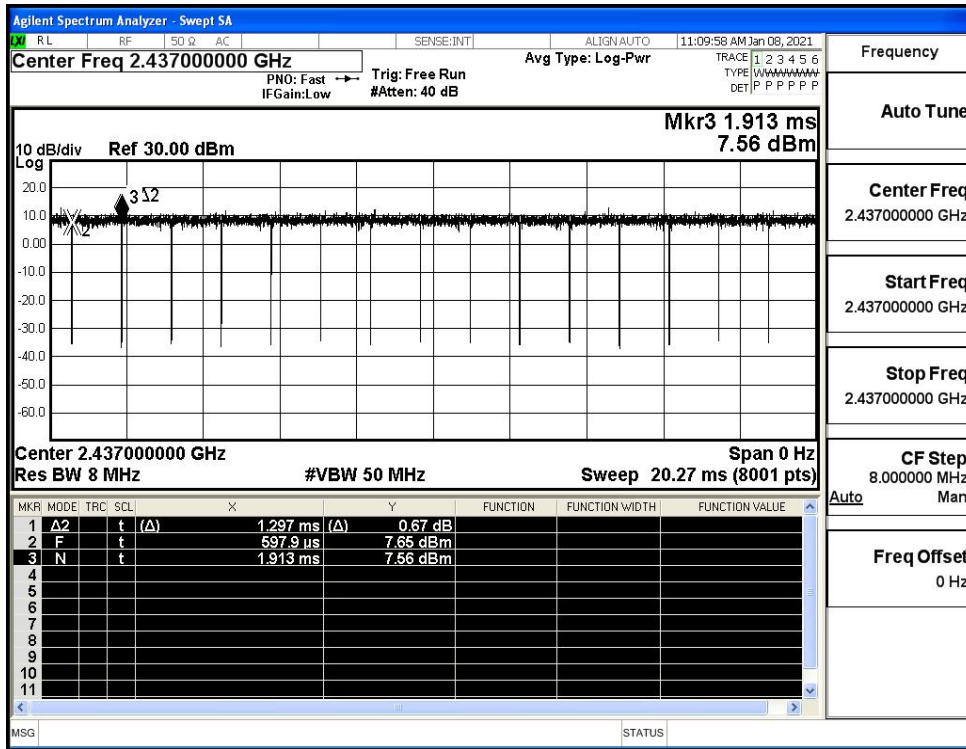
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

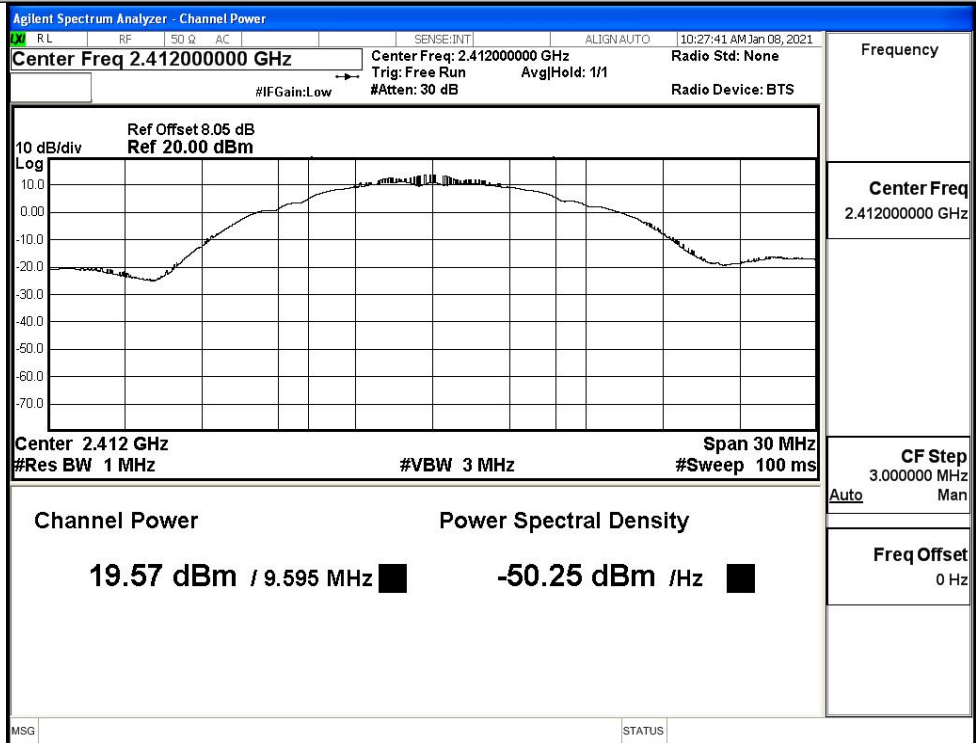


B.2 Maximum Conducted Output Power

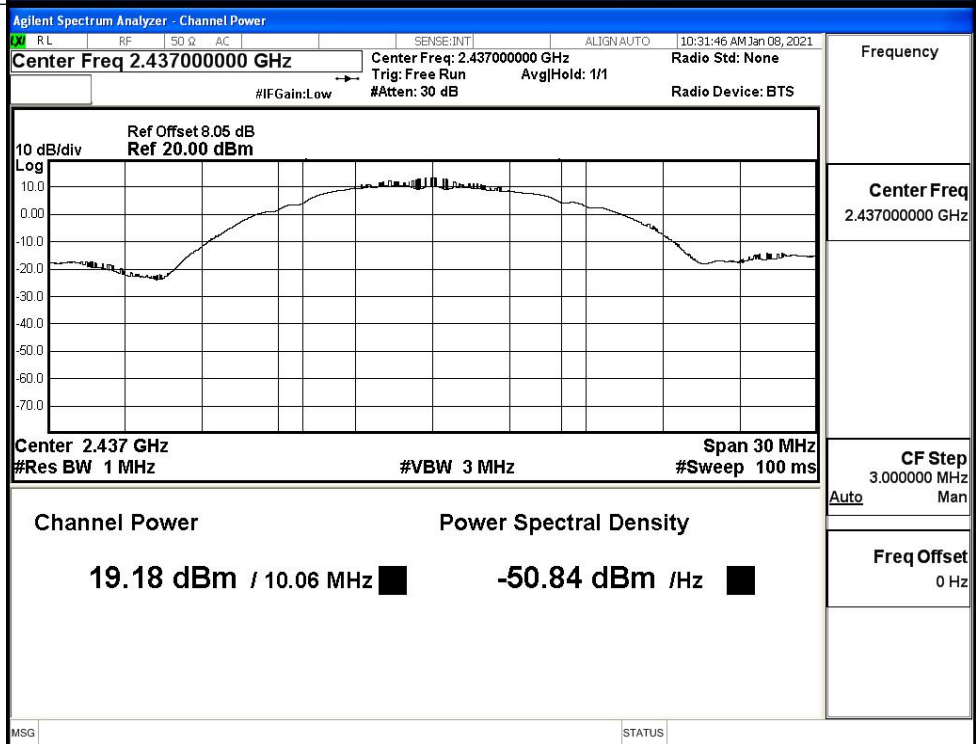
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	19.57	30	PASS
	MCH	19.18	30	PASS
	HCH	18.76	30	PASS
11G	LCH	18.86	30	PASS
	MCH	20.15	30	PASS
	HCH	19.66	30	PASS
11N20SISO	LCH	18.52	30	PASS
	MCH	19.65	30	PASS
	HCH	19.39	30	PASS

Test Graphs

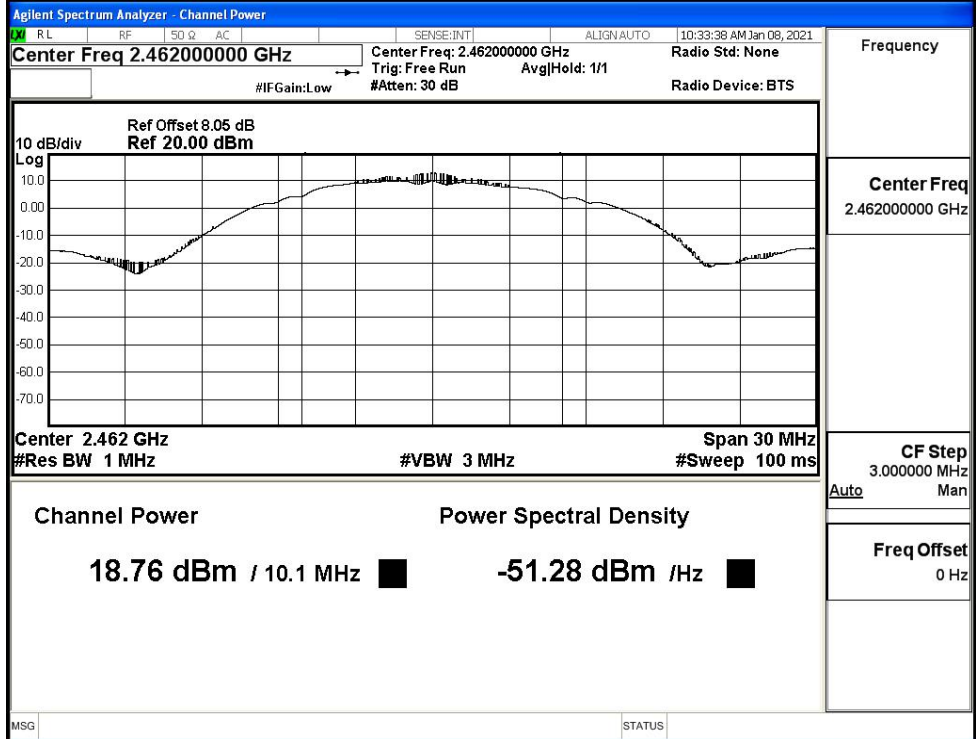
11B/LCH



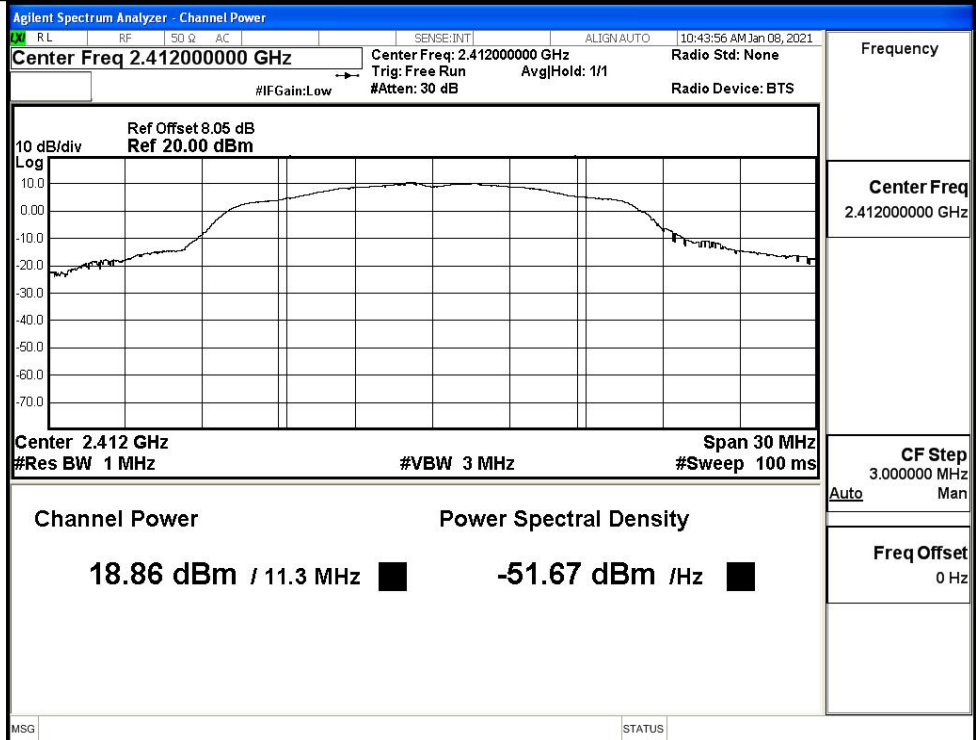
11B/MCH



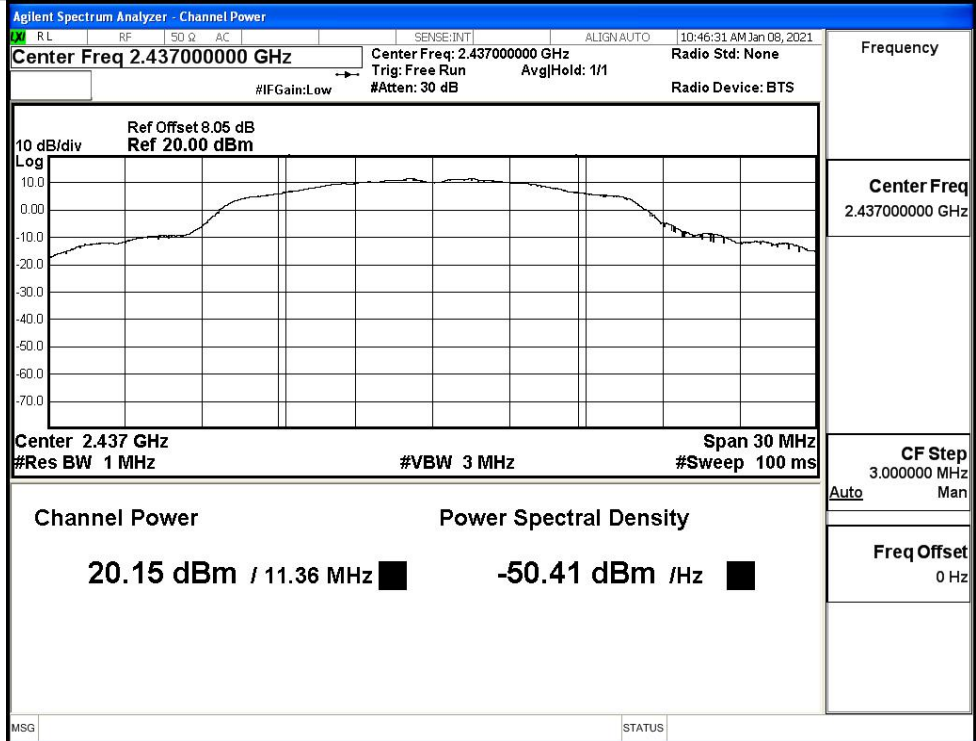
11B/HCH



11G/LCH

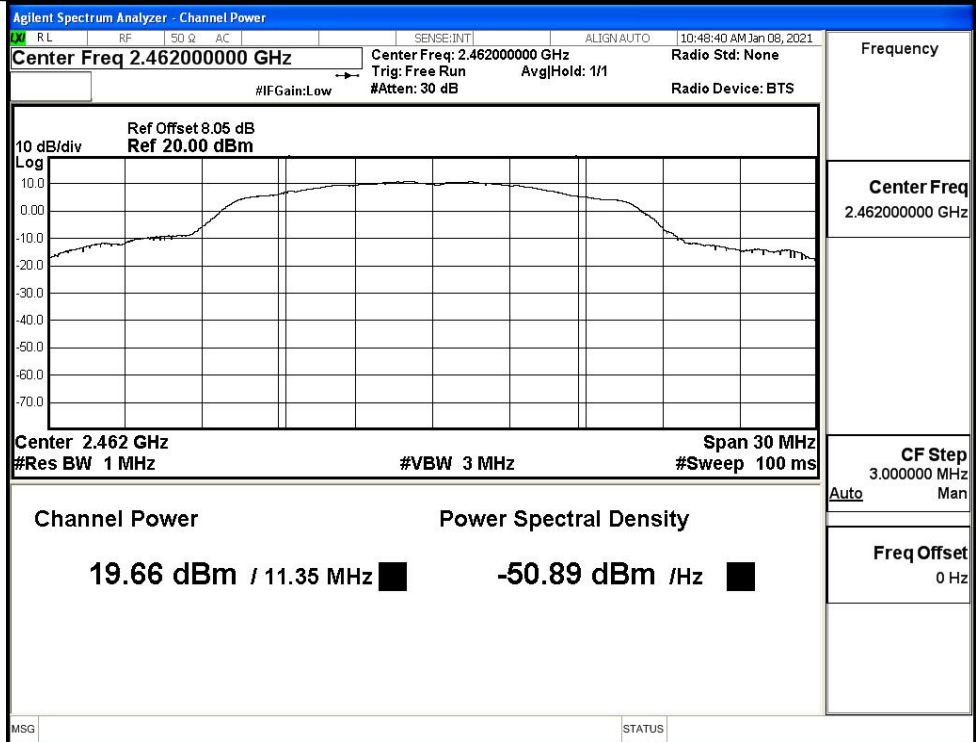


11G/MCH



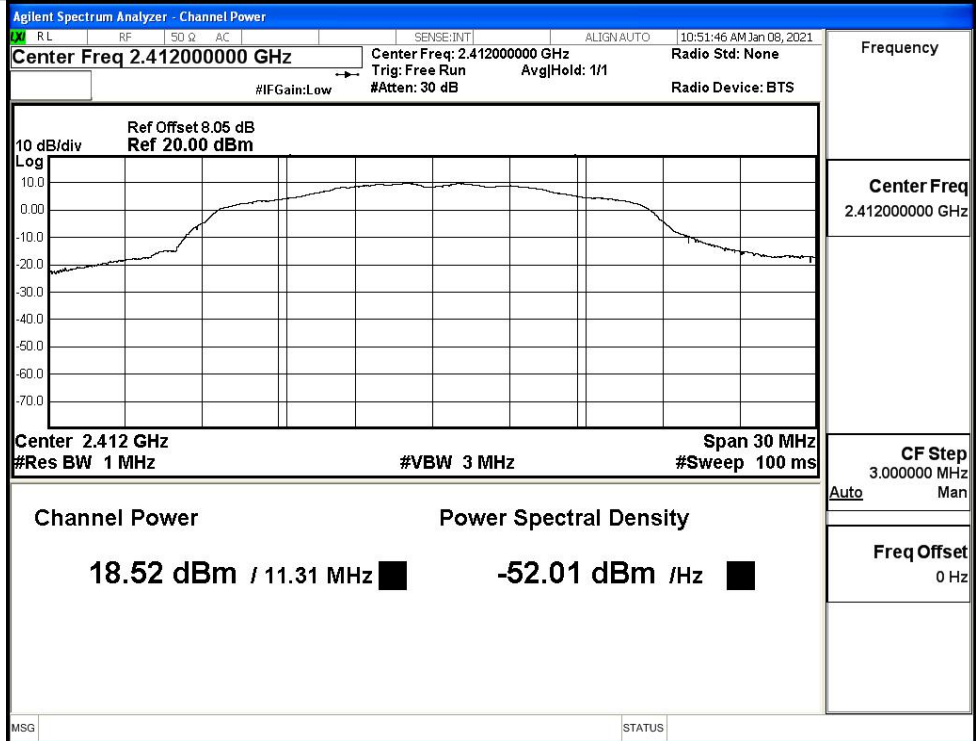
Frequency	Center Freq 2.437000000 GHz
CF Step	3.000000 MHz Auto Man
Freq Offset	0 Hz

11G/HCH

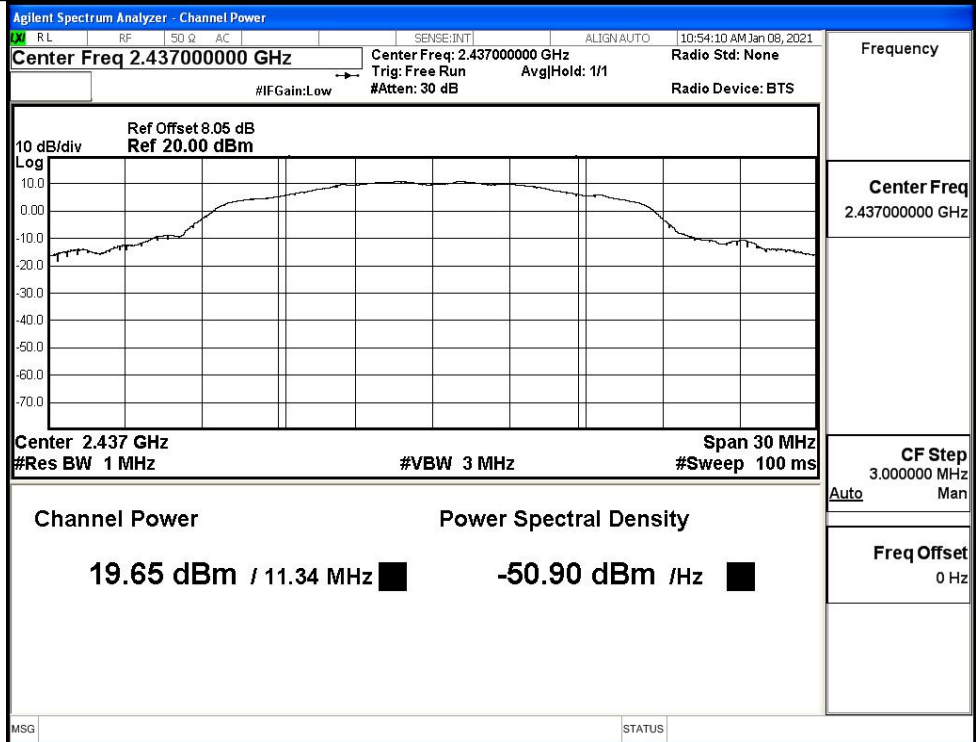


Frequency	Center Freq 2.462000000 GHz
CF Step	3.000000 MHz Auto Man
Freq Offset	0 Hz

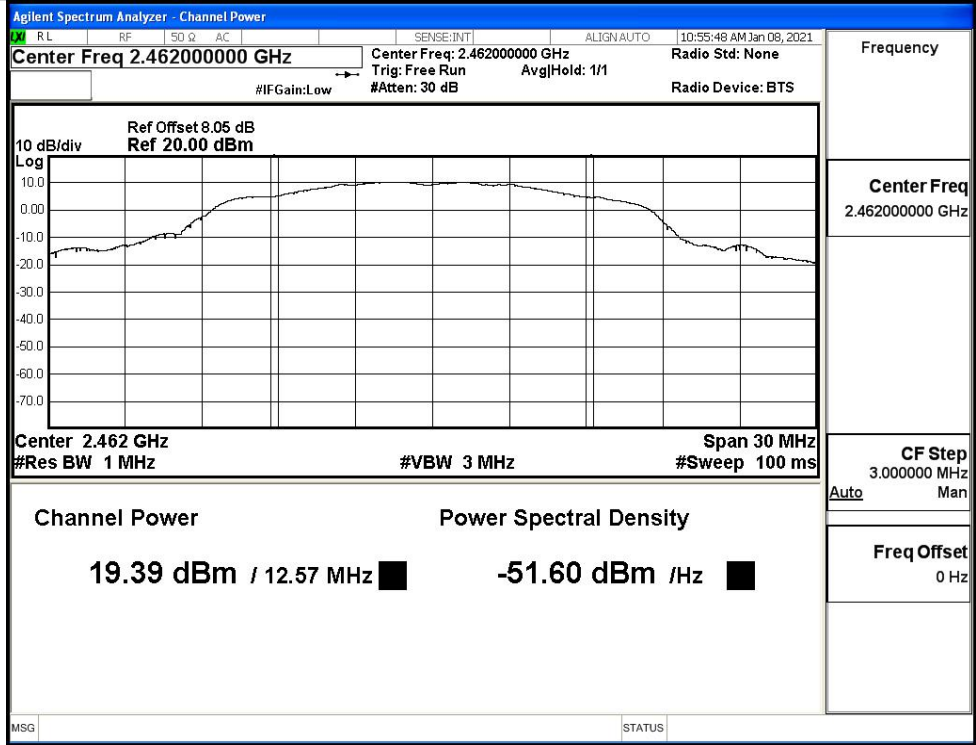
11N20SISO/LCH



11N20SISO/MCH

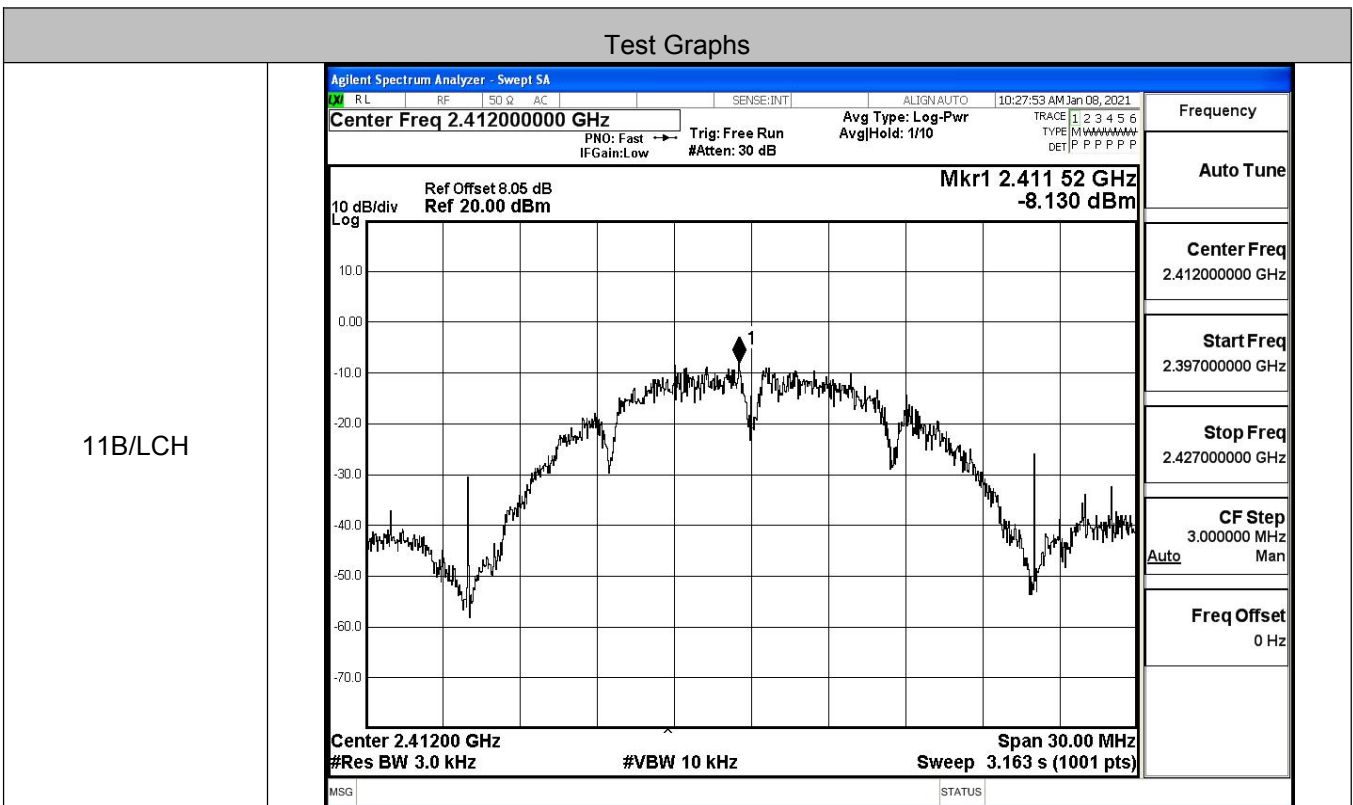


11N20SISO/HCH

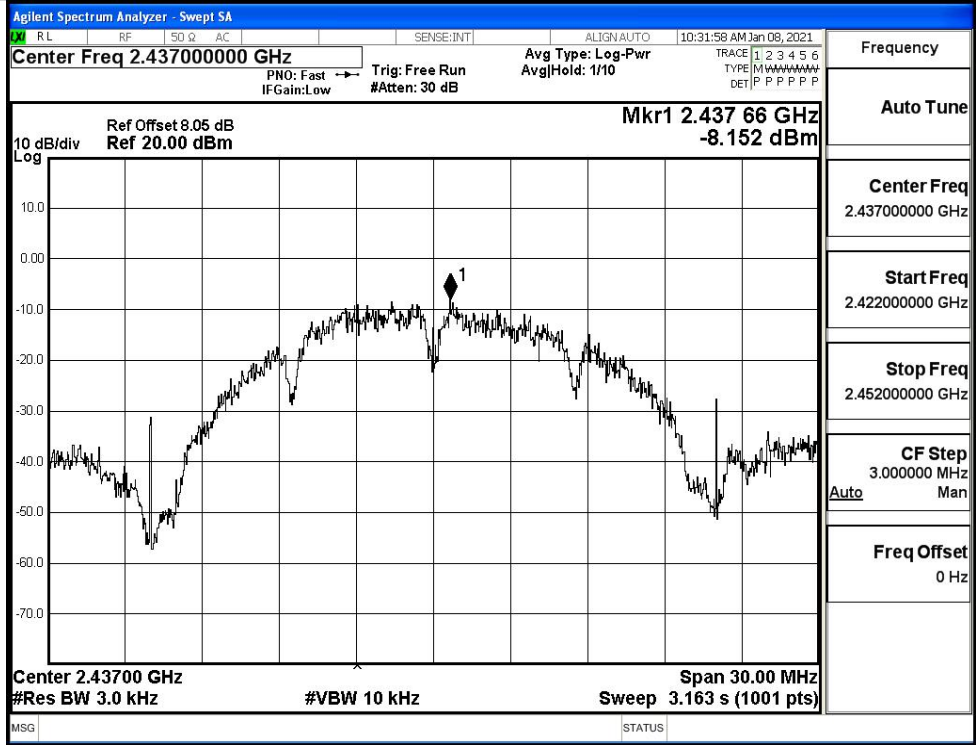


B.3 Maximum Power Spectral Density

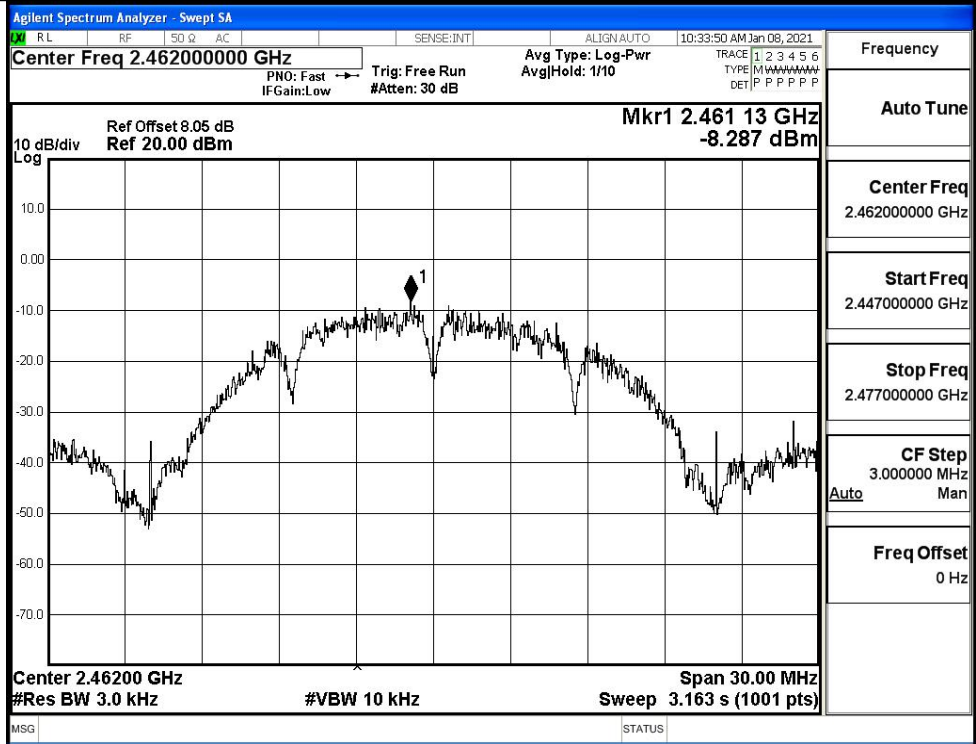
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-8.130	8	PASS
	MCH	-8.152	8	PASS
	HCH	-8.287	8	PASS
11G	LCH	-13.669	8	PASS
	MCH	-12.405	8	PASS
	HCH	-11.722	8	PASS
11N20SISO	LCH	-13.014	8	PASS
	MCH	-11.465	8	PASS
	HCH	-12.821	8	PASS



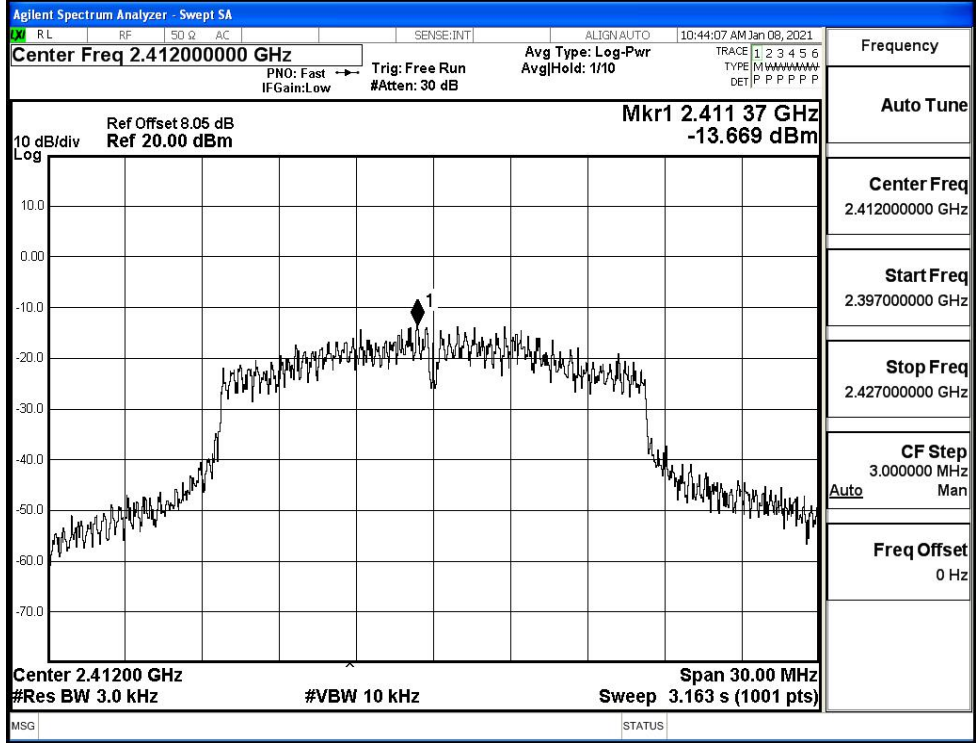
11B/MCH



11B/HCH

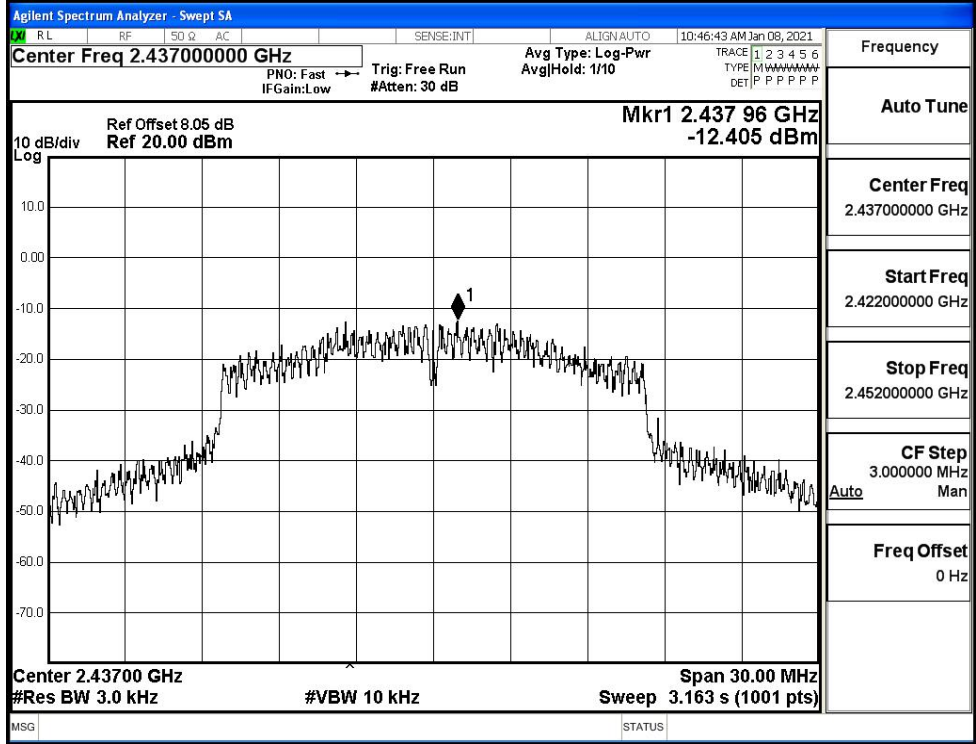


11G/LCH



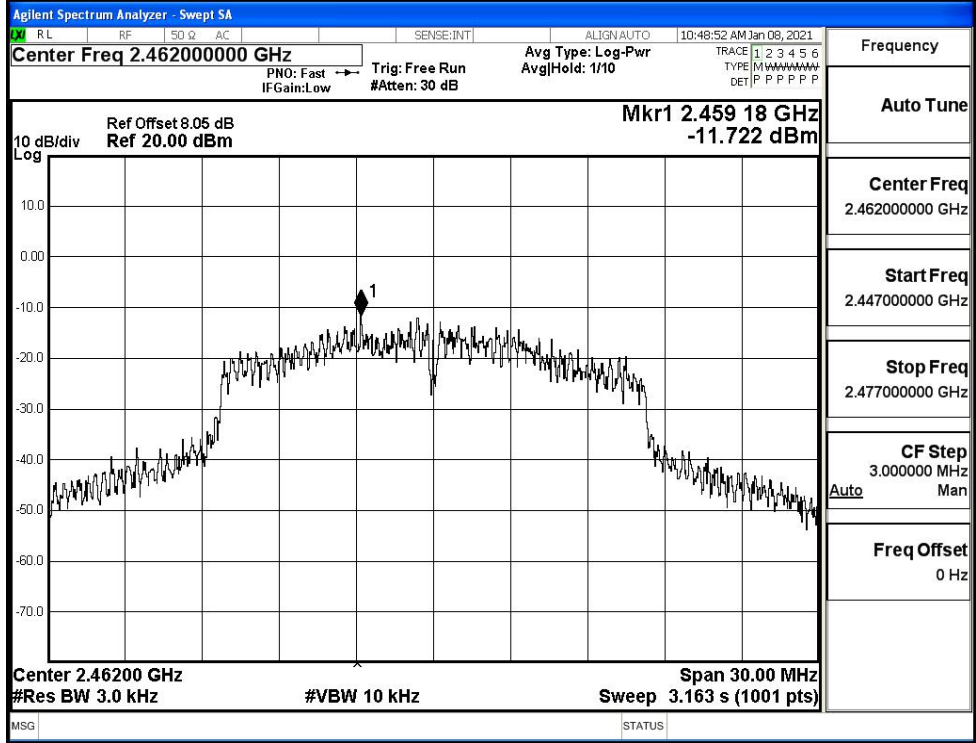
Frequency
Auto Tune
Center Freq 2.41200000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/MCH

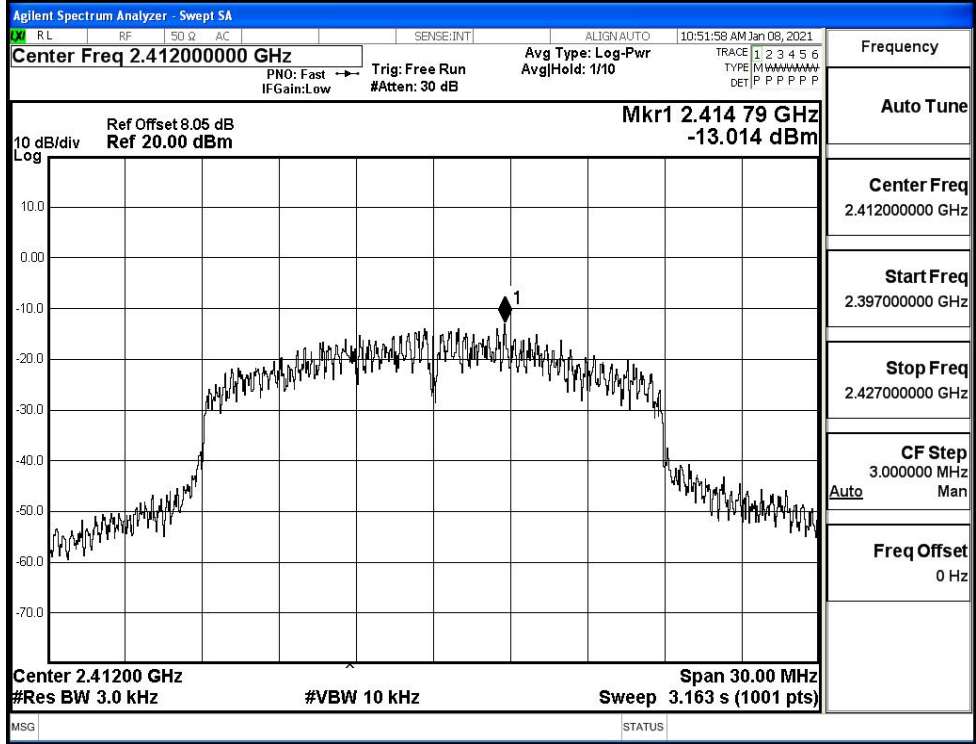


Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

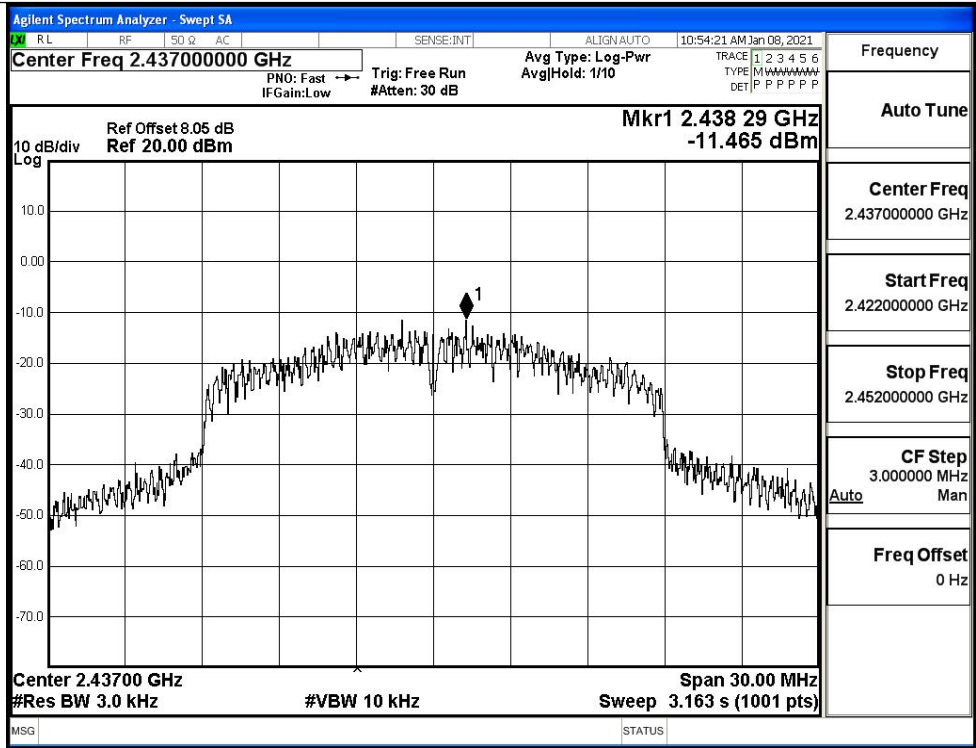
11G/HCH



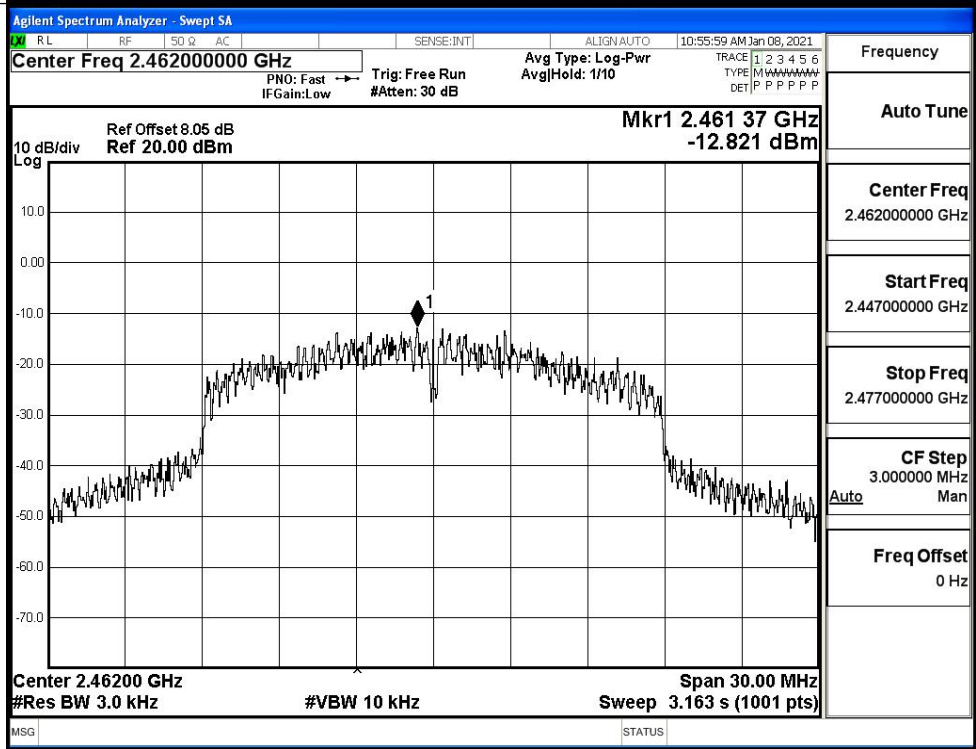
11N20SISO/LCH



11N20SISO/MCH



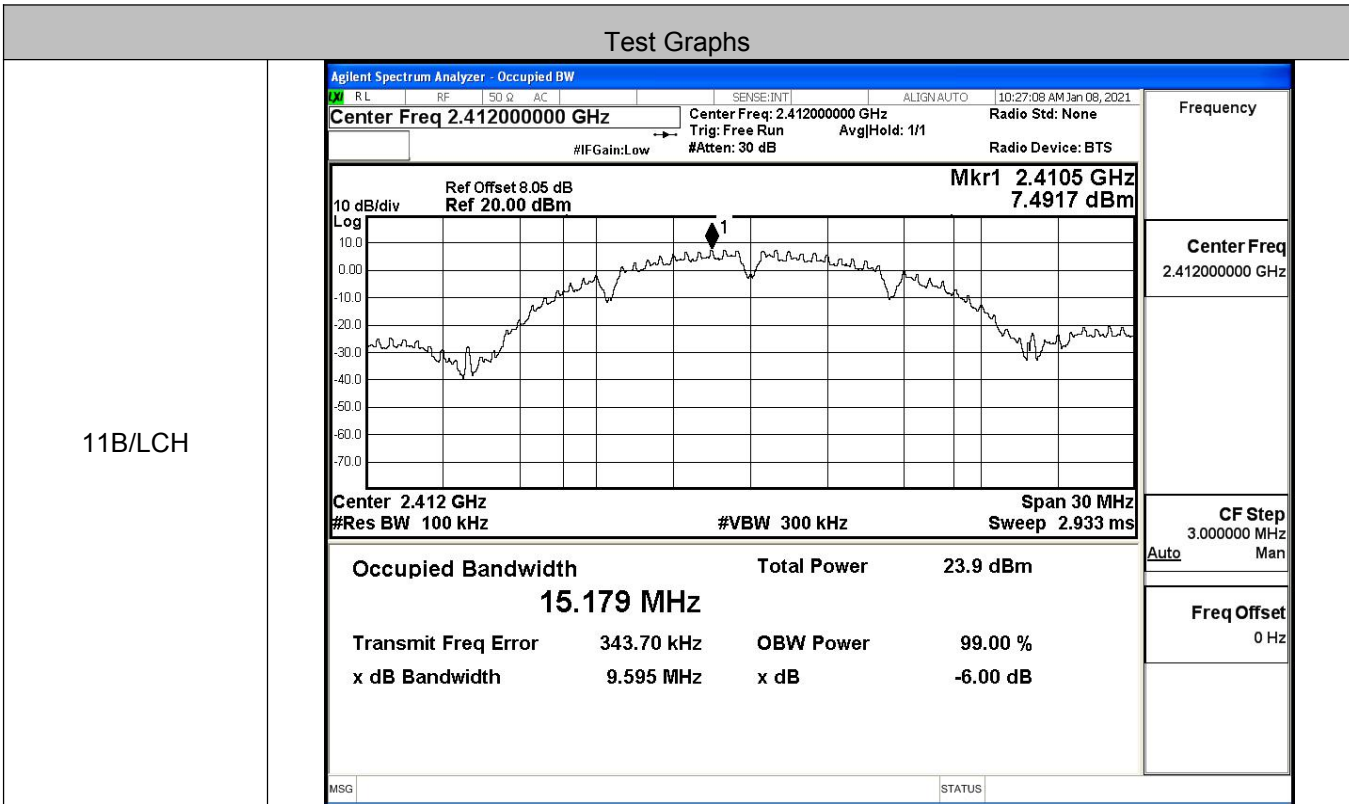
11N20SISO/HCH



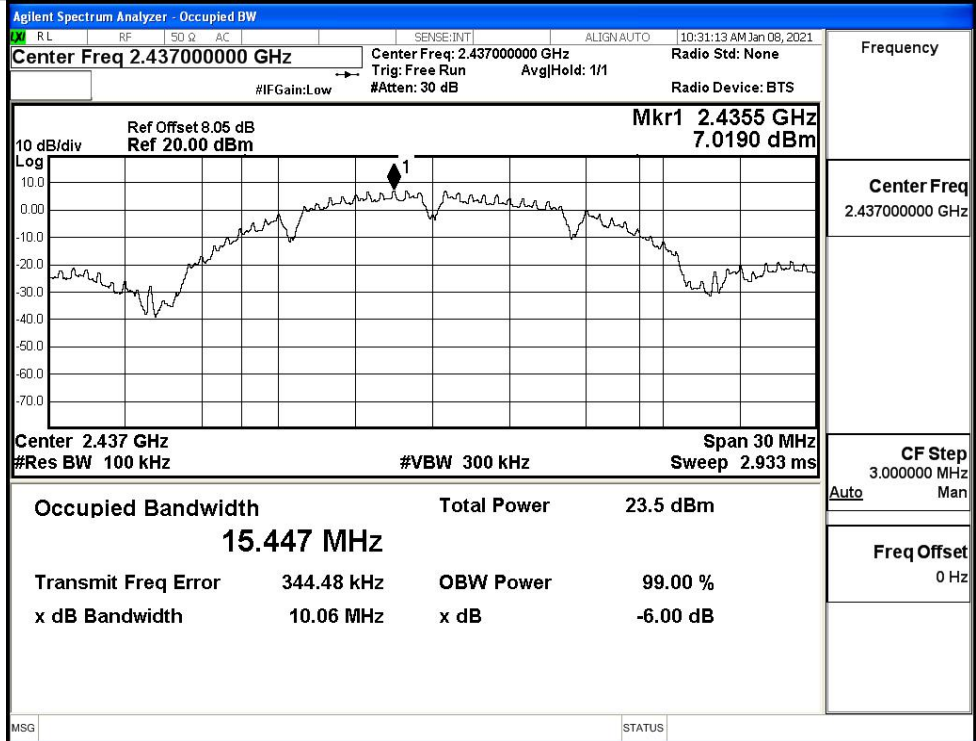
B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.595	≥0.5	PASS
	MCH	10.06	≥0.5	PASS
	HCH	10.10	≥0.5	PASS
11G	LCH	11.30	≥0.5	PASS
	MCH	11.36	≥0.5	PASS
	HCH	11.35	≥0.5	PASS
11N20SISO	LCH	11.31	≥0.5	PASS
	MCH	11.34	≥0.5	PASS
	HCH	12.57	≥0.5	PASS

Test Graphs



11B/MCH



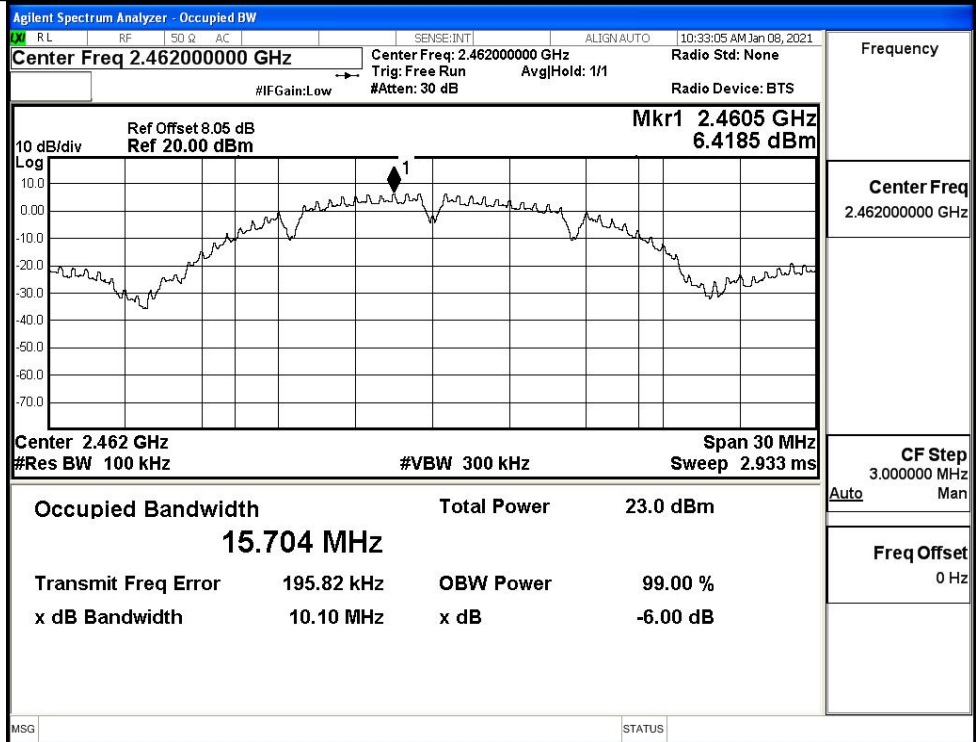
Frequency

Center Freq
2.43700000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11B/HCH



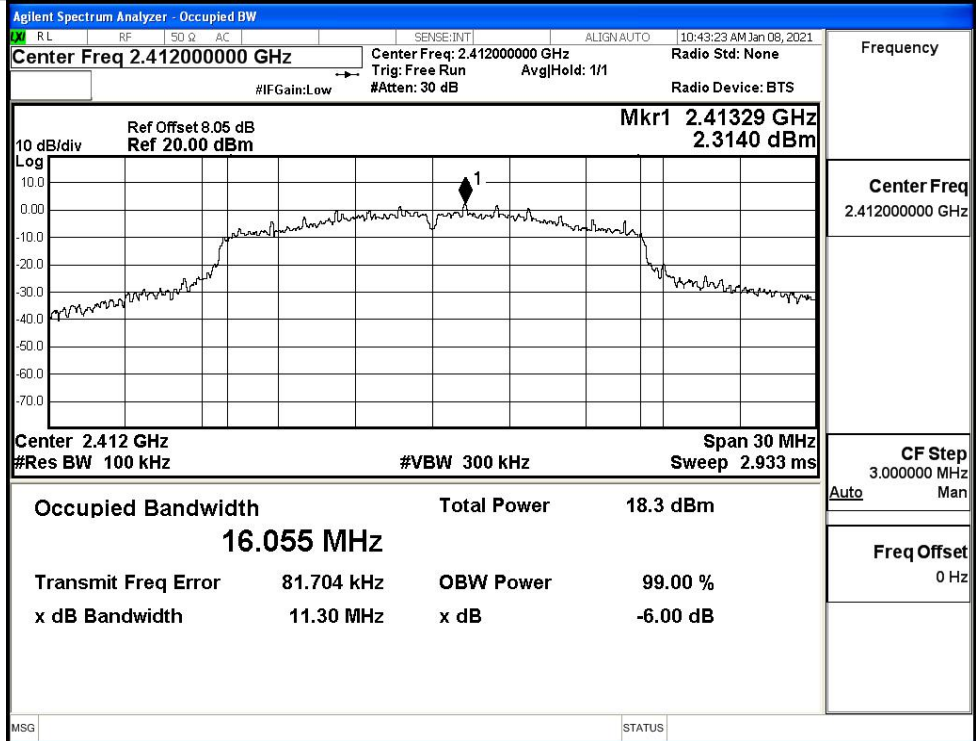
Frequency

Center Freq
2.46200000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11G/LCH



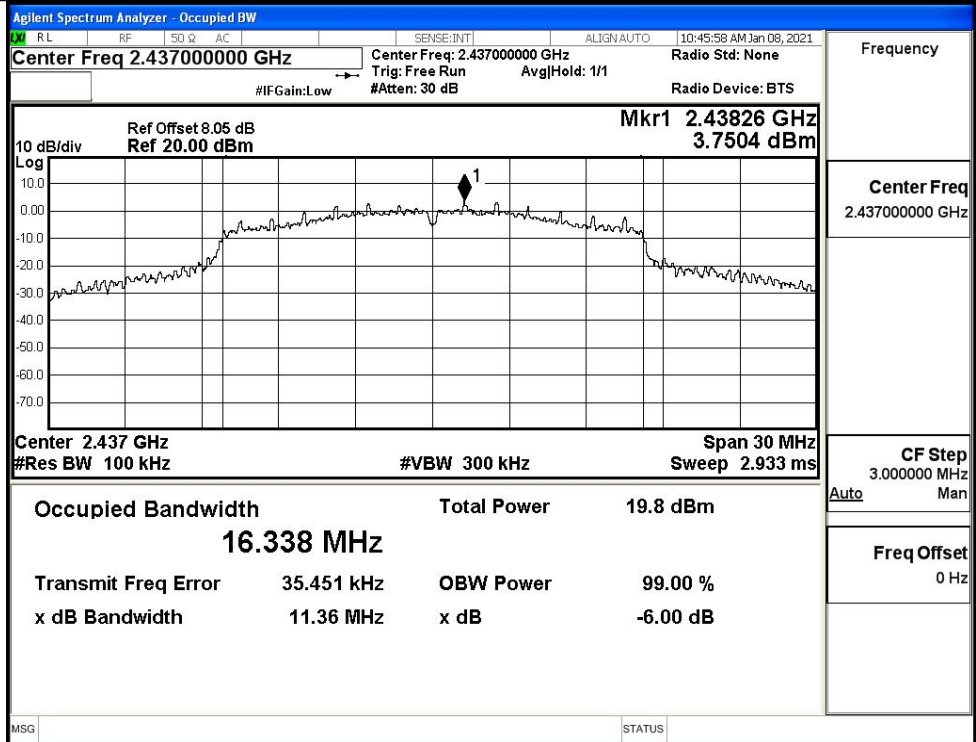
Frequency

Center Freq
2.41200000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11G/MCH



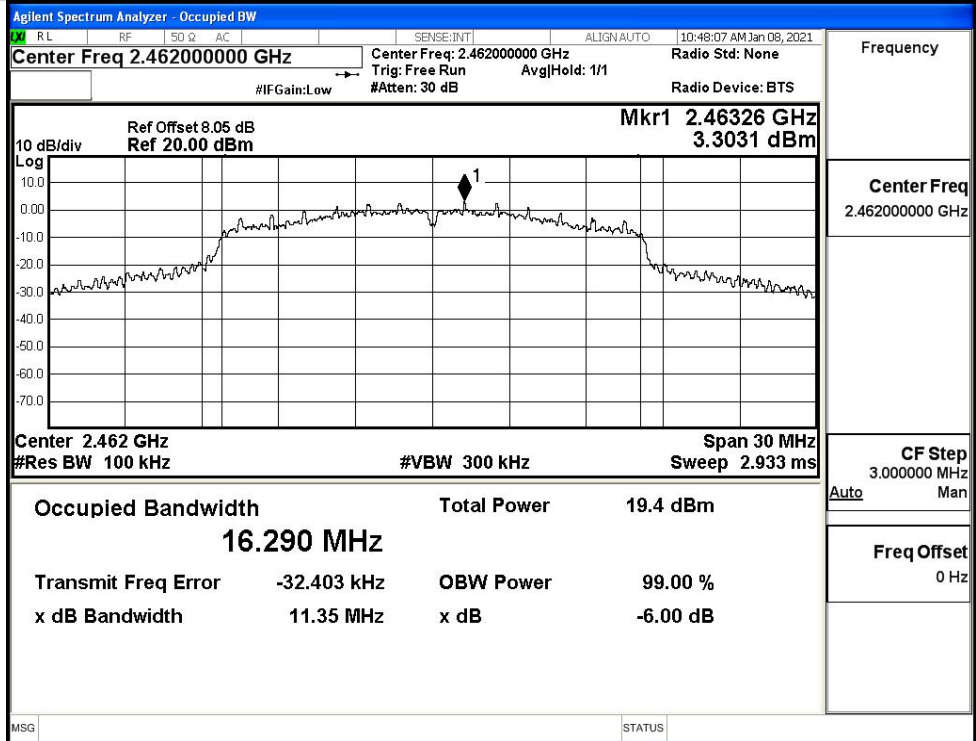
Frequency

Center Freq
2.43700000 GHz

CF Step
3.000000 MHz
Auto Man

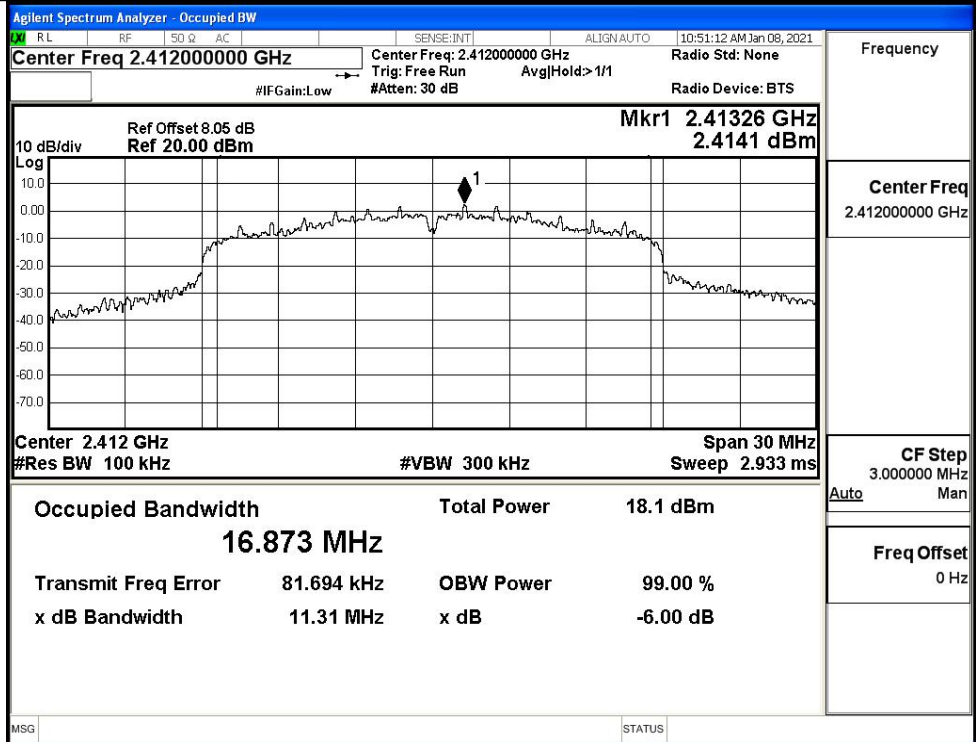
Freq Offset
0 Hz

11G/HCH



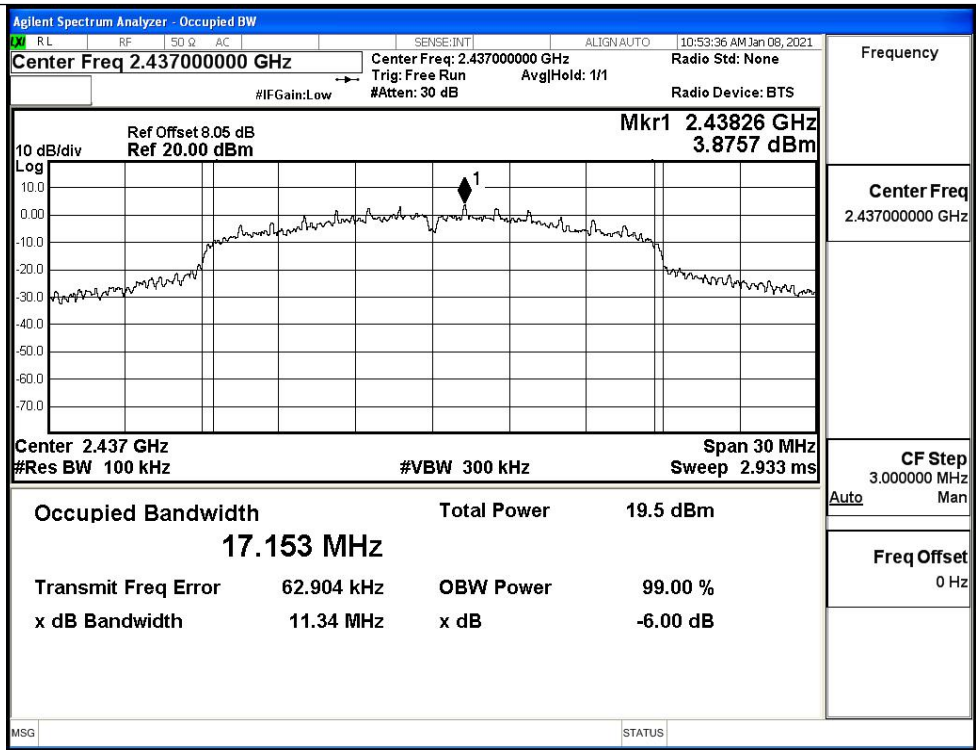
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

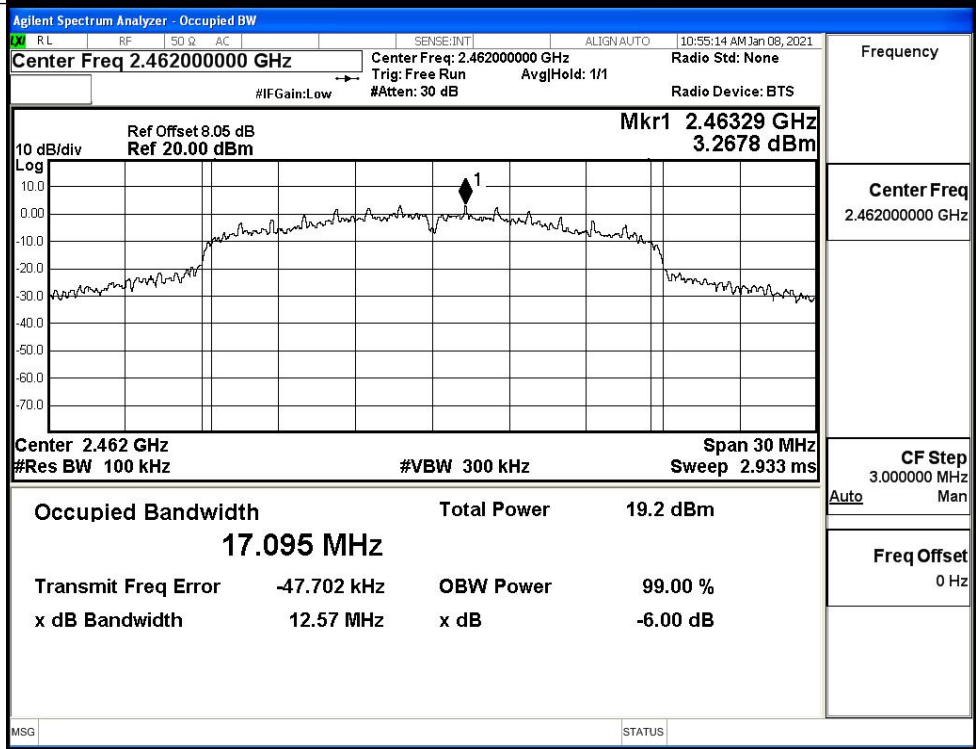


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH



11N20SISO/HCH

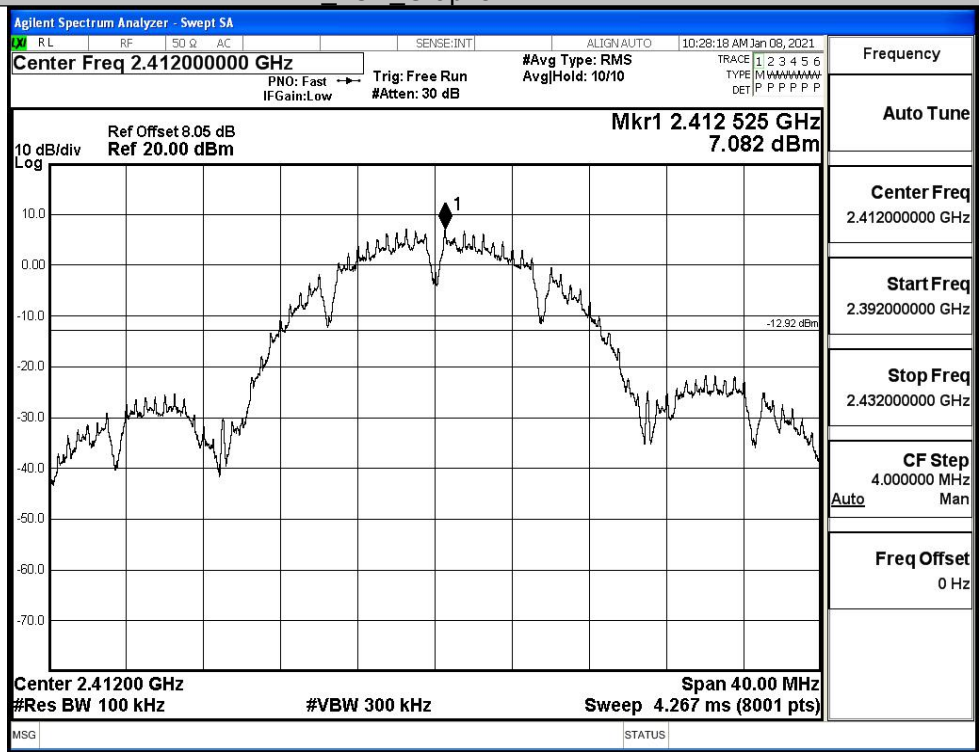


B.5 RF Conducted Spurious Emissions

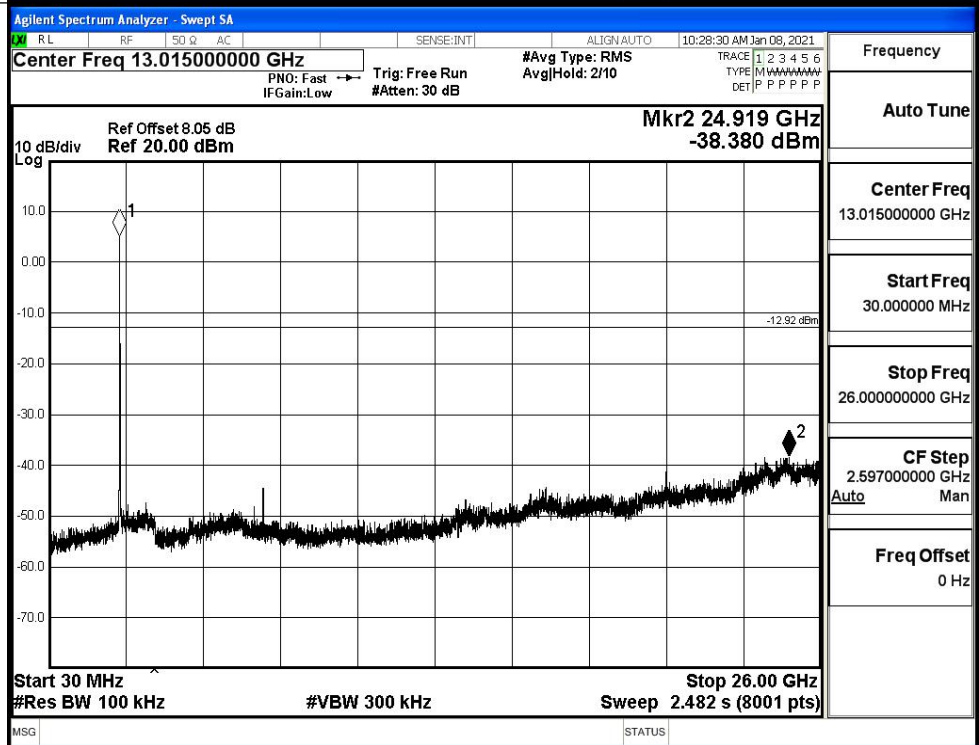
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	7.082	-38.380	-12.918	PASS
	MCH	6.875	-38.355	-13.125	PASS
	HCH	6.001	-38.421	-13.999	PASS
11G	LCH	2.234	-37.987	-17.766	PASS
	MCH	3.055	-38.581	-16.945	PASS
	HCH	3.324	-37.898	-16.676	PASS
11N20 SISO	LCH	2.432	-38.022	-17.568	PASS
	MCH	3.63	-38.648	-16.370	PASS
	HCH	3.254	-37.765	-16.746	PASS

11B LCH Graphs

Pref/11B/LCH

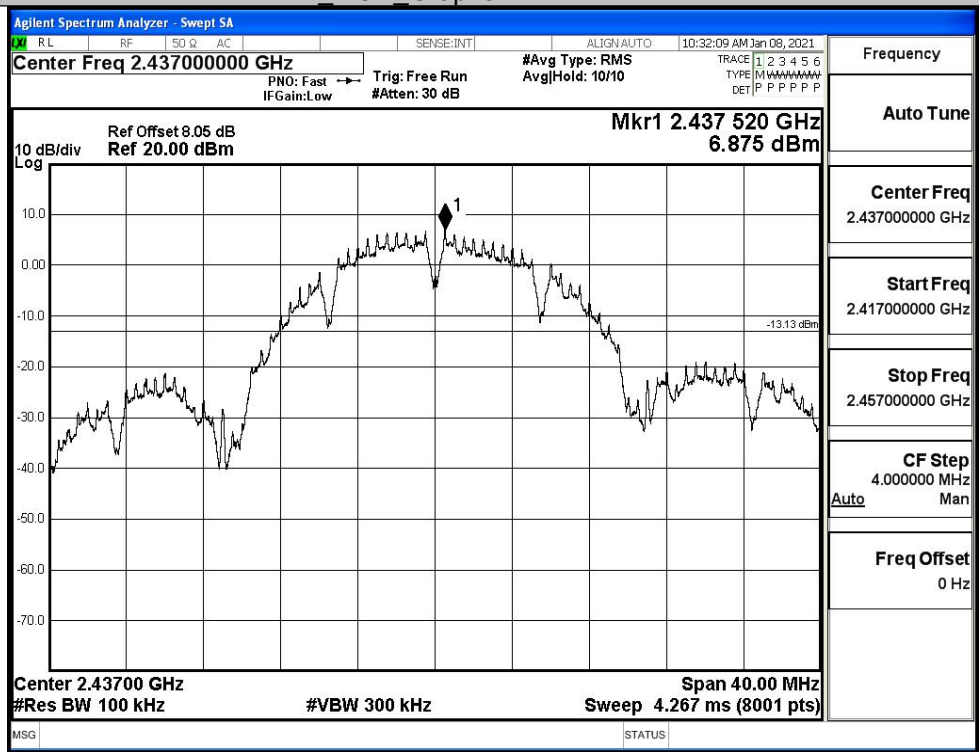


Puw/11B/LCH



11B MCH Graphs

Pref/11B/MCH



Puw/11B/MCH

