

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: ALL IN ONE

Trade Mark: N/A

Test Model: GEO-080R5B250C700-I-MBVM-PG020-AT

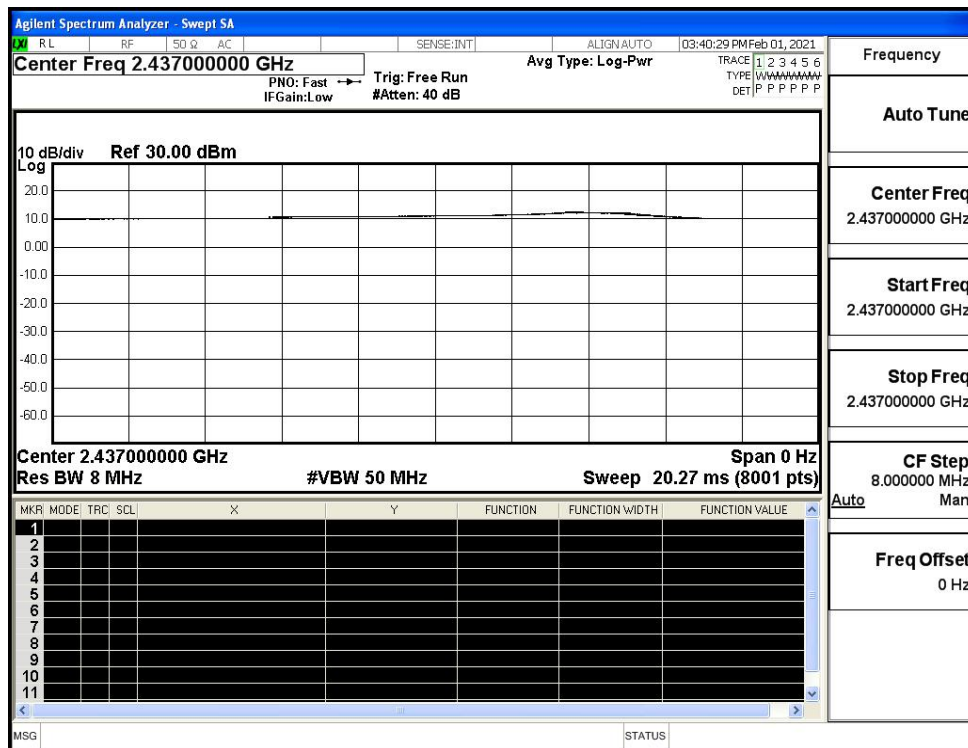
Environmental Conditions

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

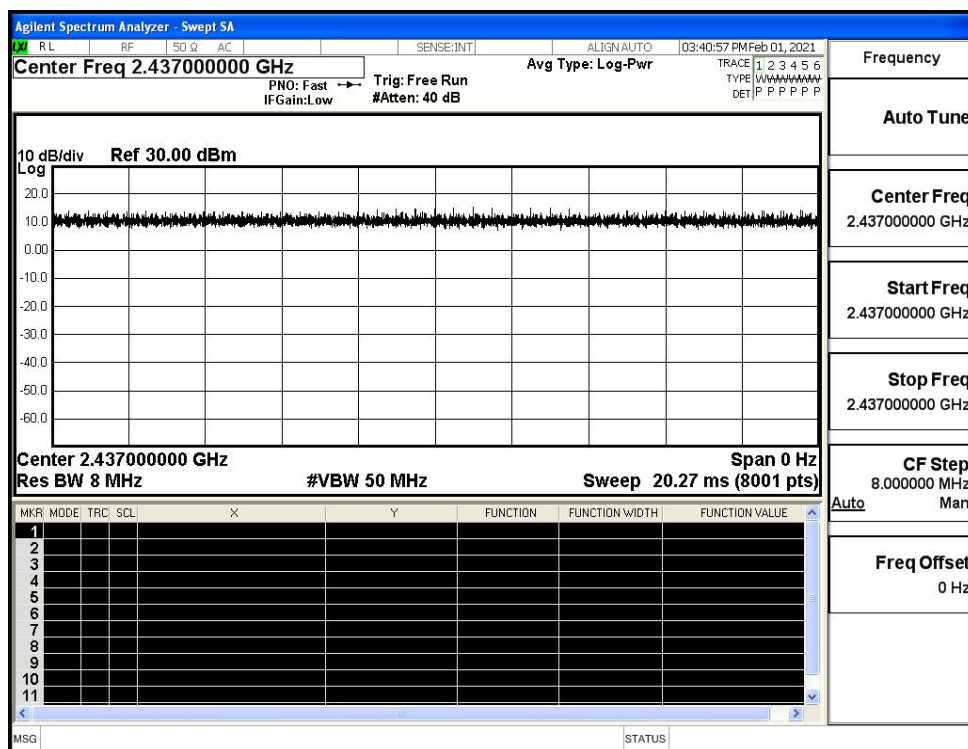
C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

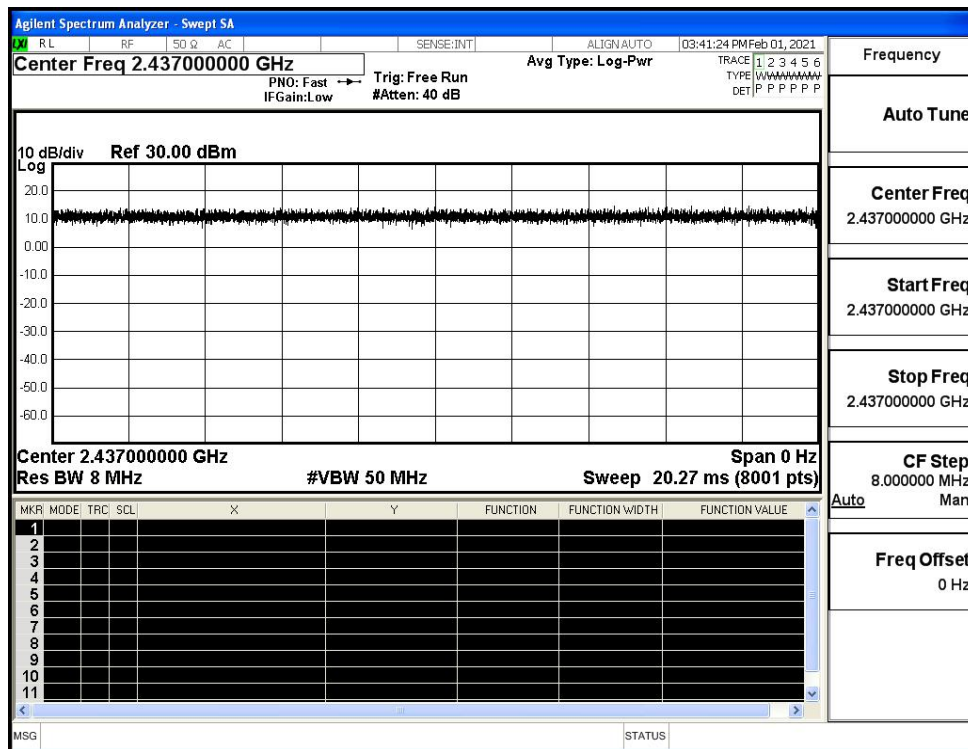
Duty Cycle_11B_2437_Ant1



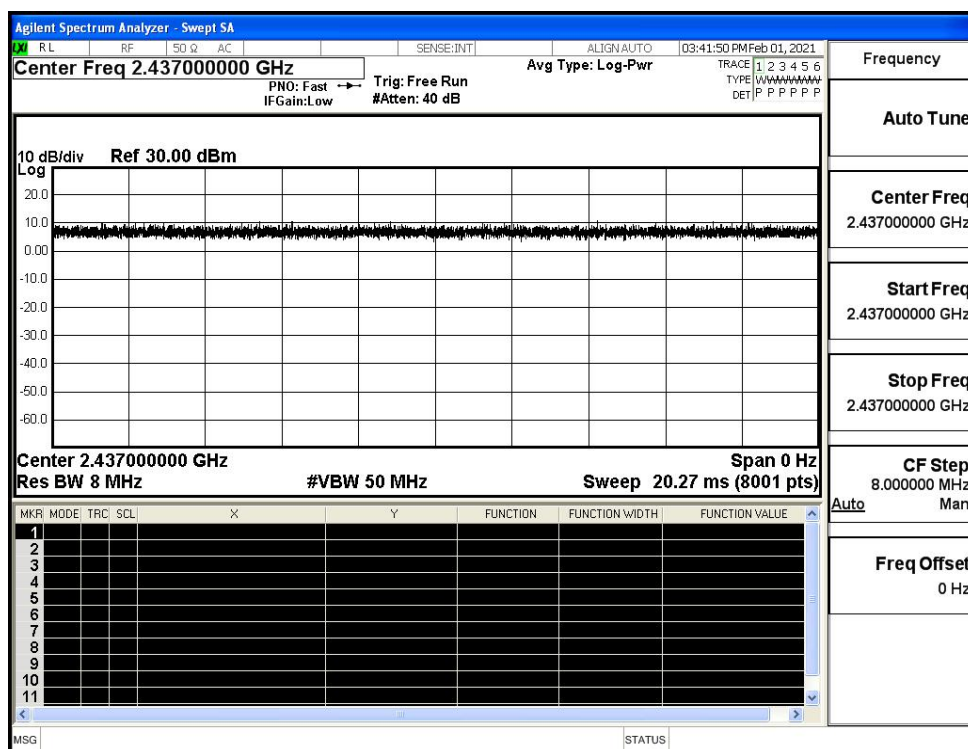
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

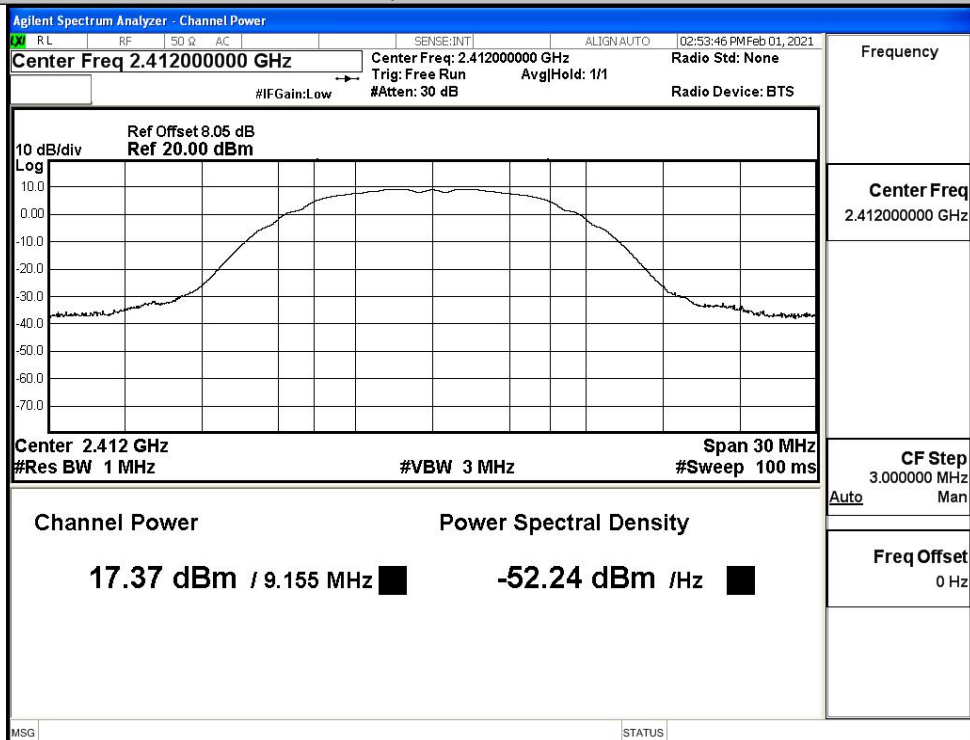


C.2 Maximum Conducted Output Power

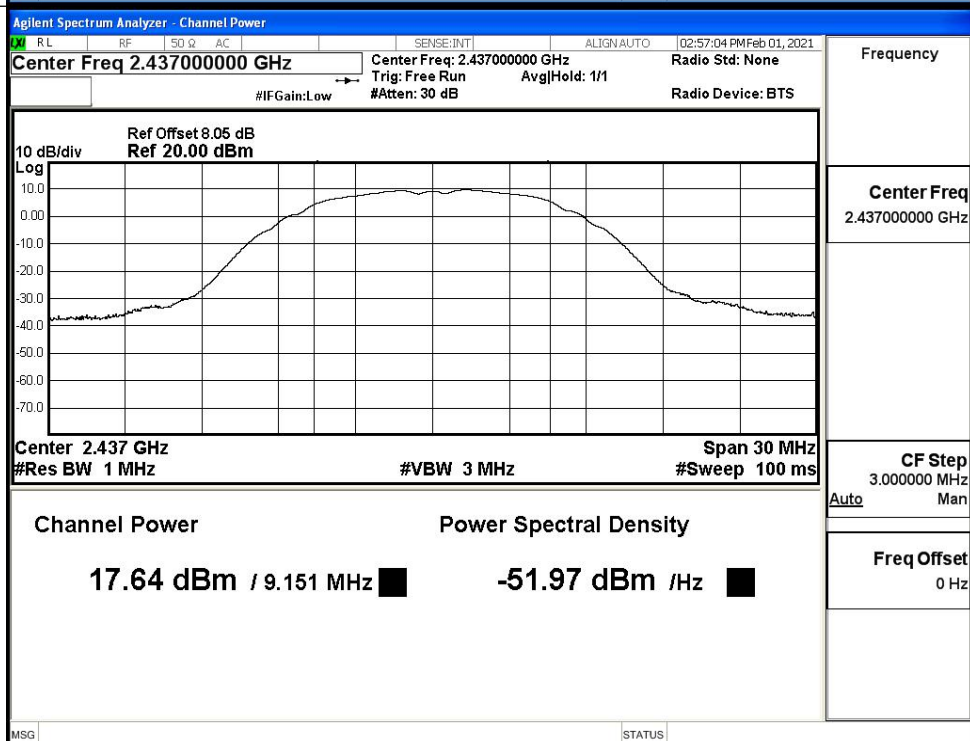
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.37	30	PASS
	MCH	17.64	30	PASS
	HCH	17.13	30	PASS
11G	LCH	17.94	30	PASS
	MCH	17.47	30	PASS
	HCH	17.57	30	PASS
11N20SISO	LCH	17.63	30	PASS
	MCH	17.88	30	PASS
	HCH	17.12	30	PASS
11N40SISO	LCH	17.89	30	PASS
	MCH	17.65	30	PASS
	HCH	17.61	30	PASS

Test Graphs

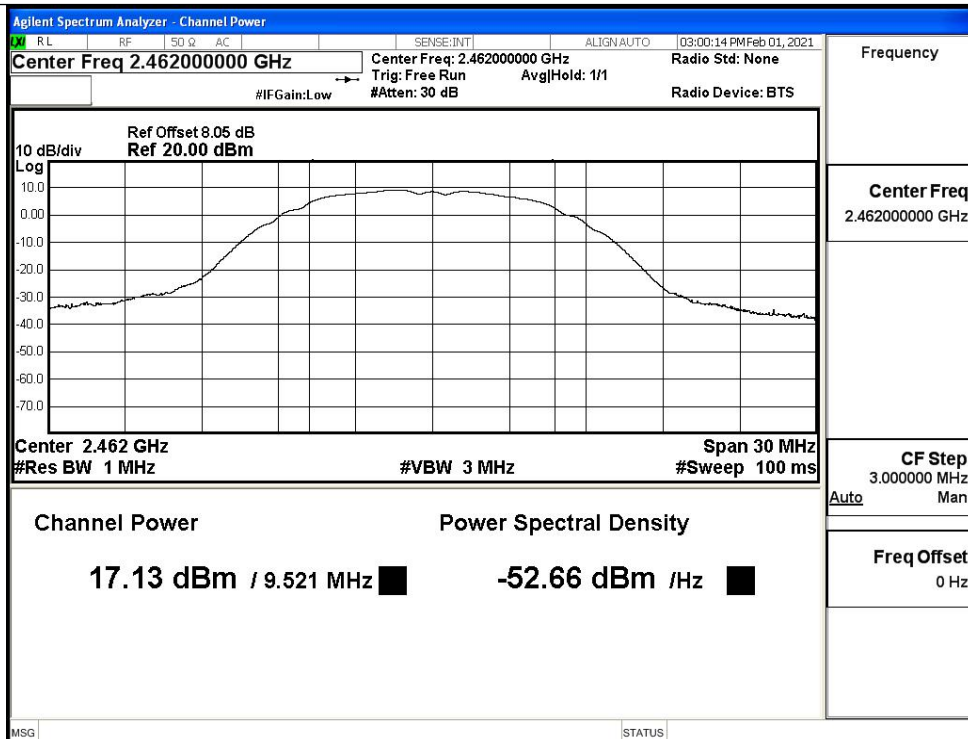
11B/LCH



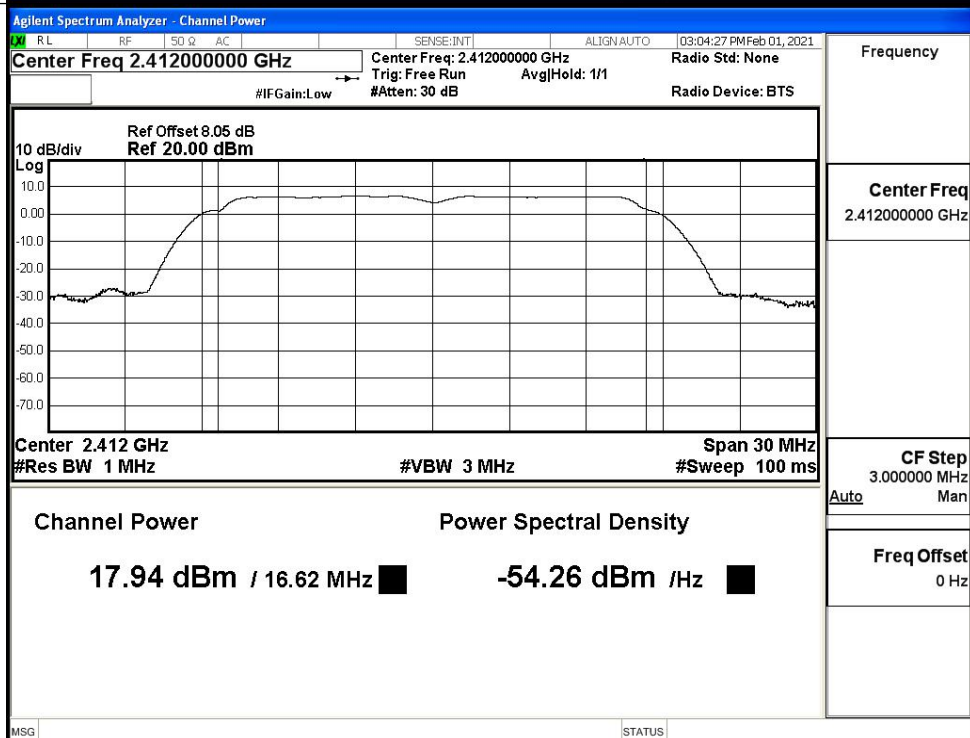
11B/MCH



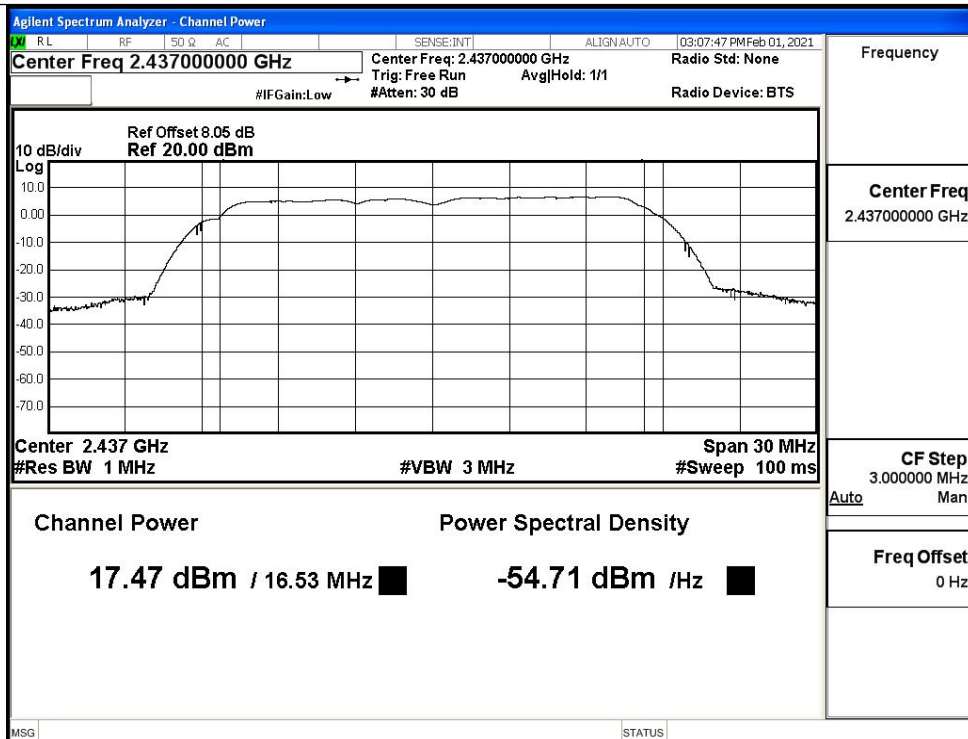
11B/HCH



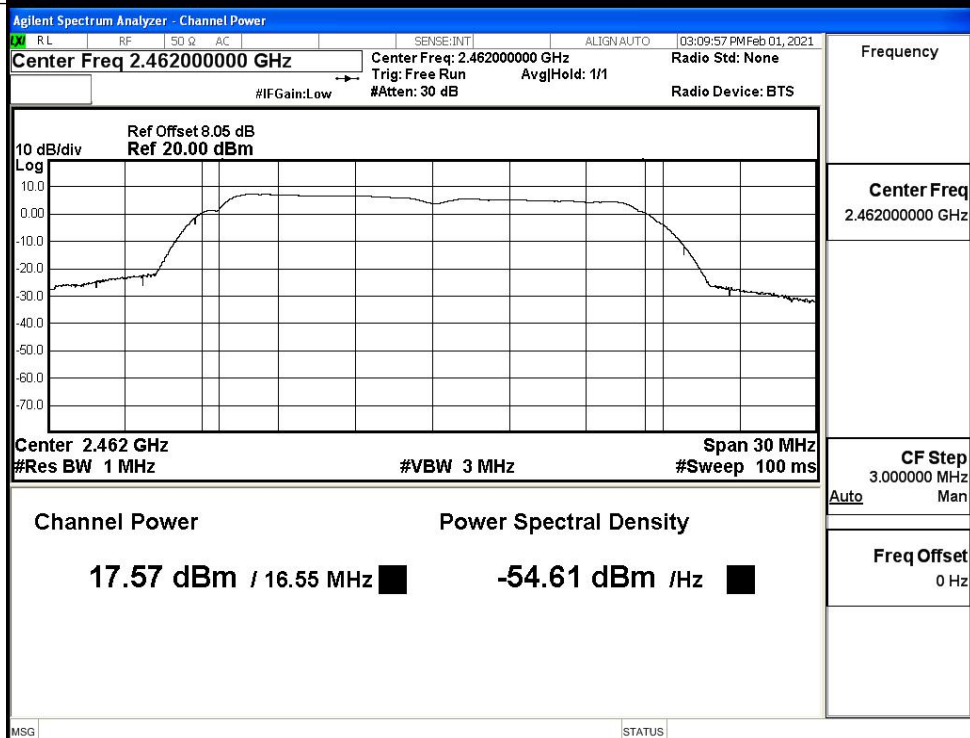
11G/LCH



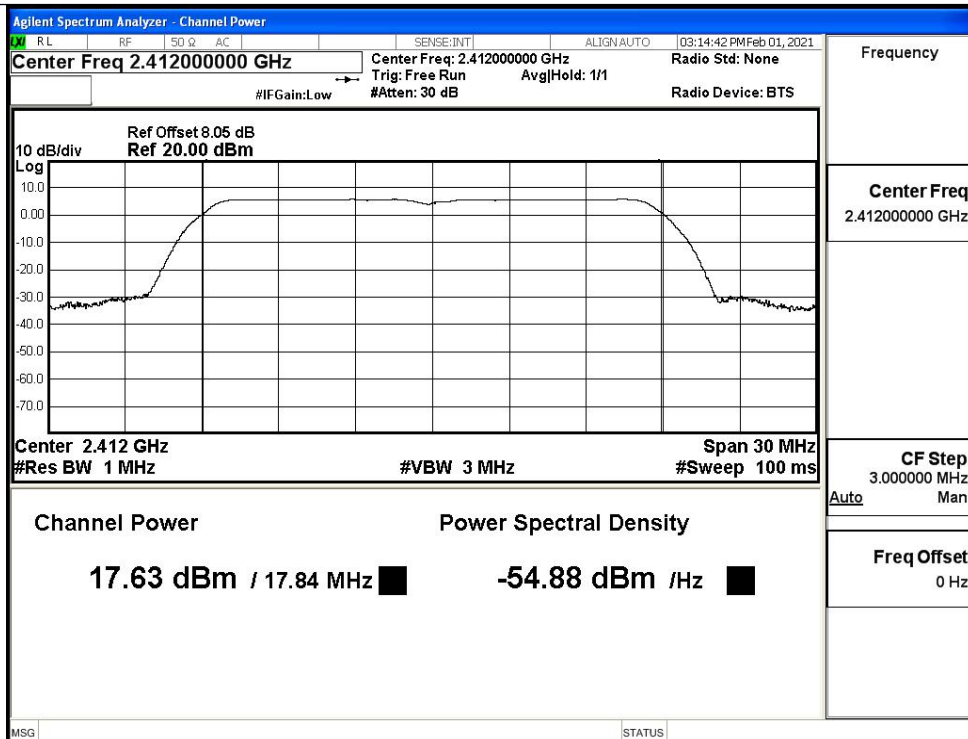
11G/MCH



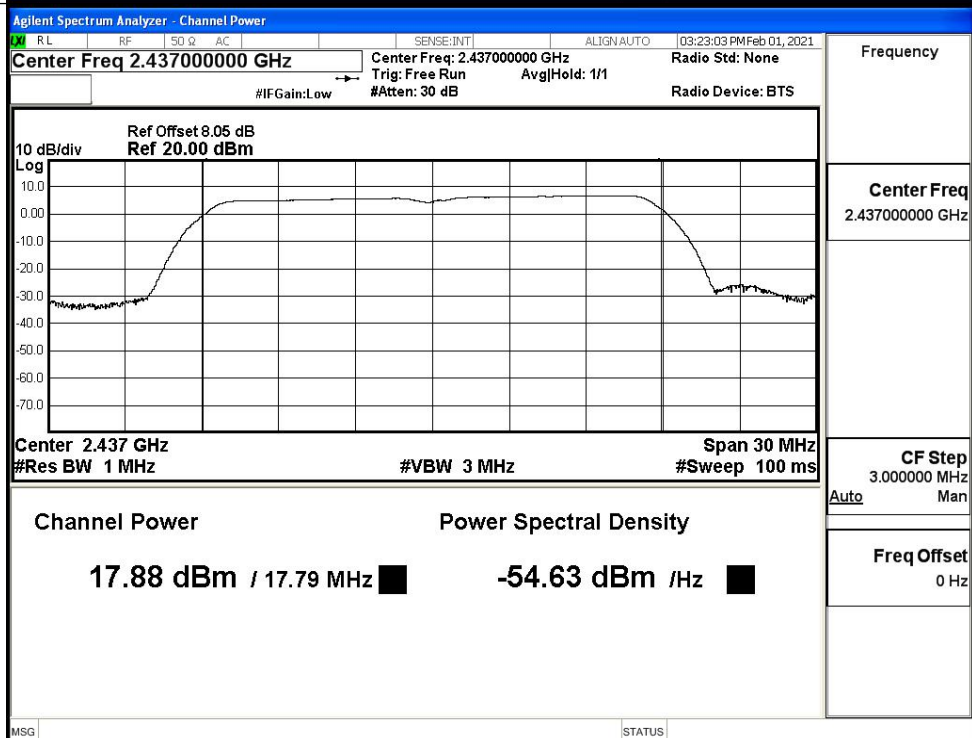
11G/HCH



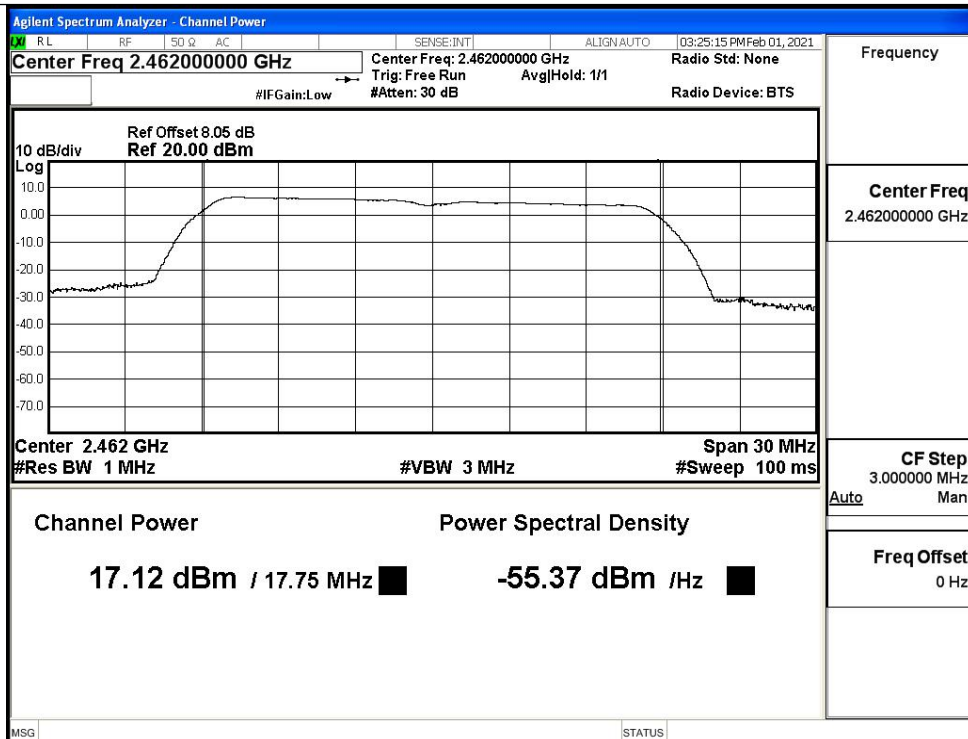
11N20SISO/LCH



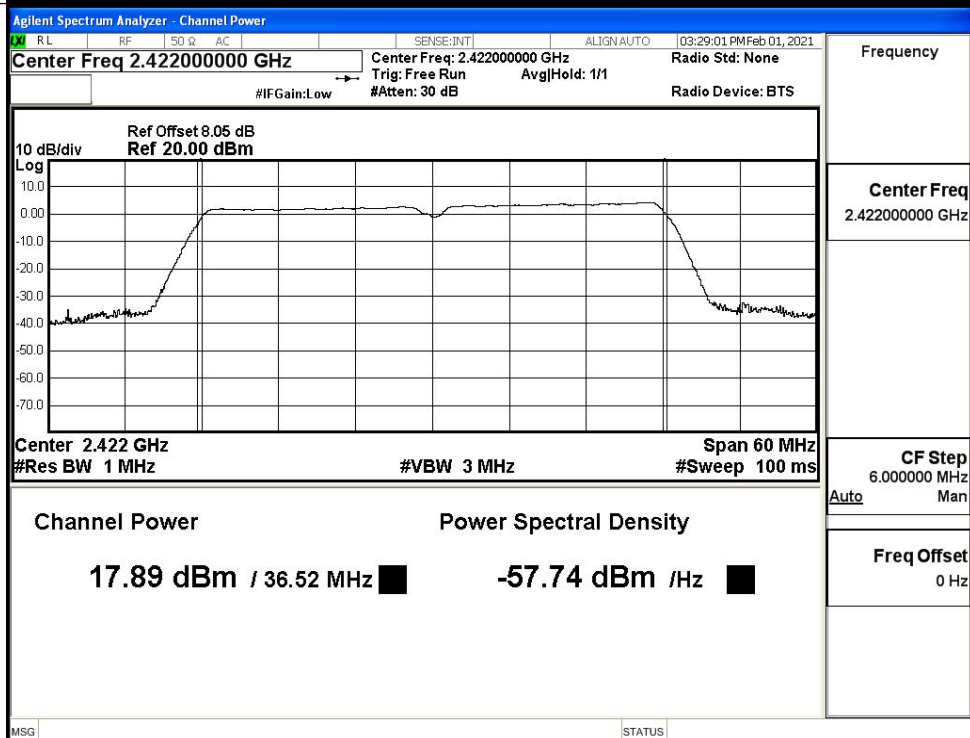
11N20SISO/MCH



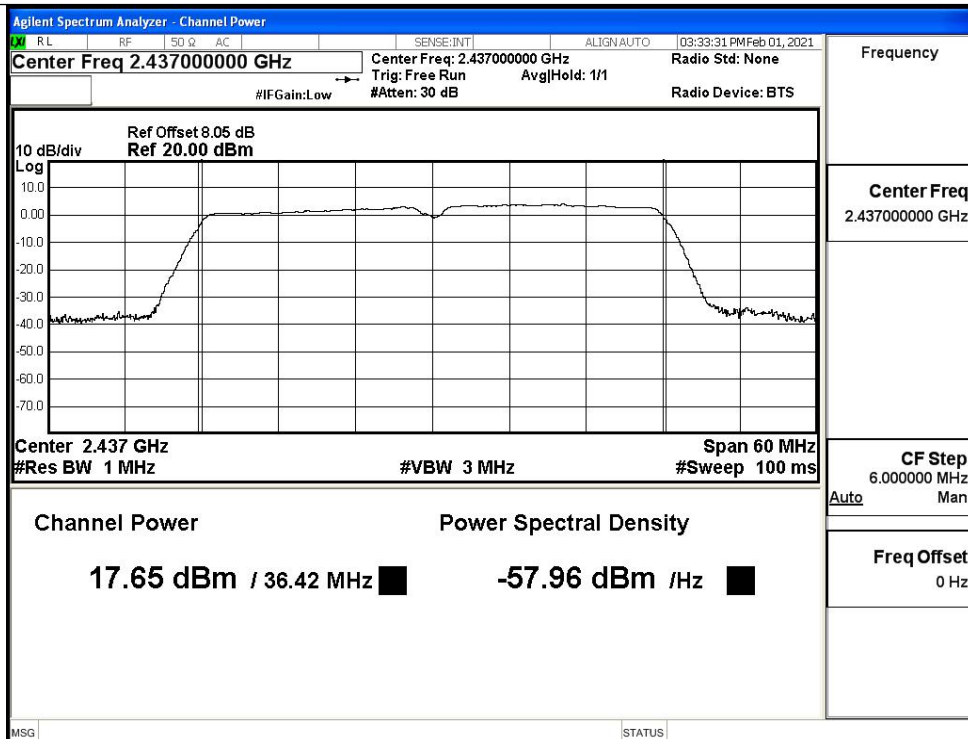
11N20SISO/HCH



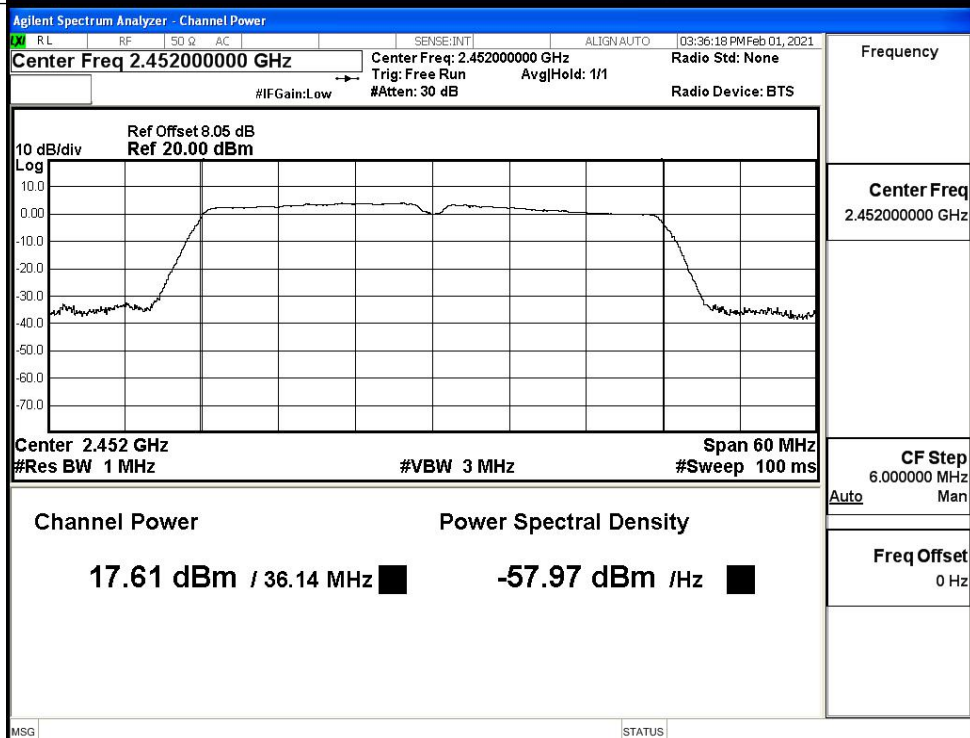
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

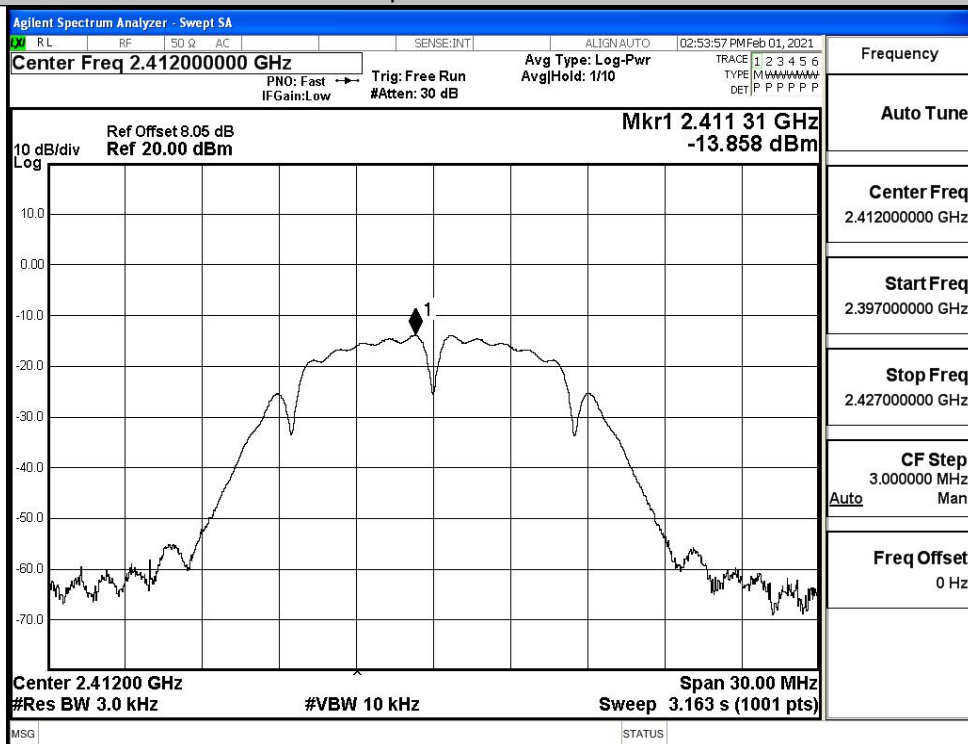


C.3 Maximum Power Spectral Density

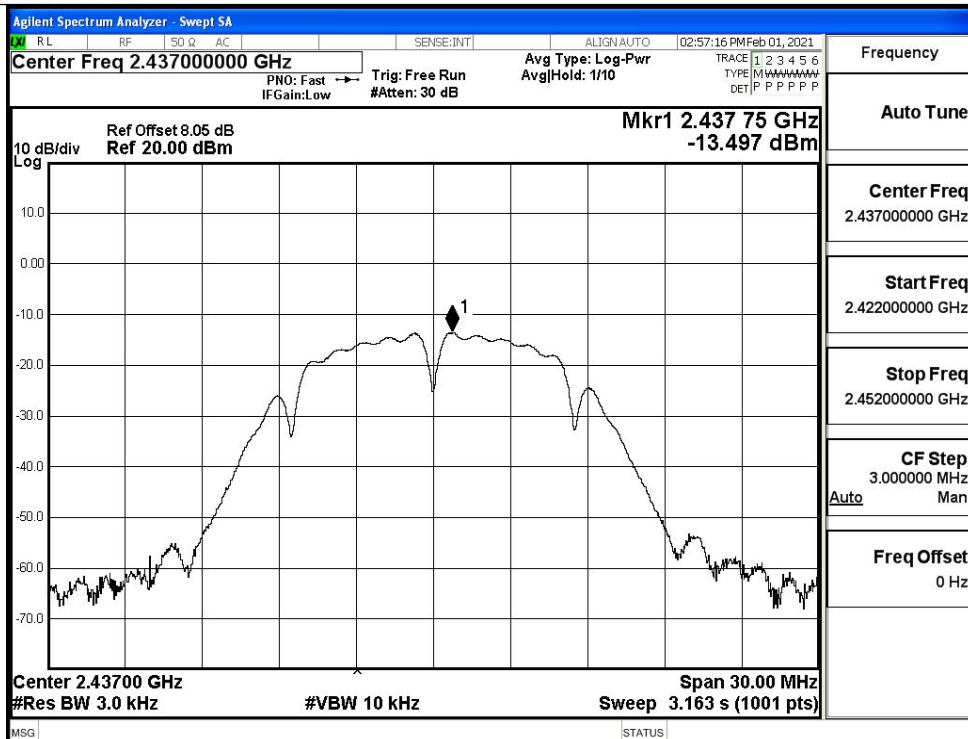
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-13.858	8	PASS
	MCH	-13.497	8	PASS
	HCH	-14.084	8	PASS
11G	LCH	-18.624	8	PASS
	MCH	-18.423	8	PASS
	HCH	-17.652	8	PASS
11N20SISO	LCH	-17.591	8	PASS
	MCH	-18.205	8	PASS
	HCH	-18.199	8	PASS
11N40SISO	LCH	-20.030	8	PASS
	MCH	-20.831	8	PASS
	HCH	-20.172	8	PASS

Test Graphs

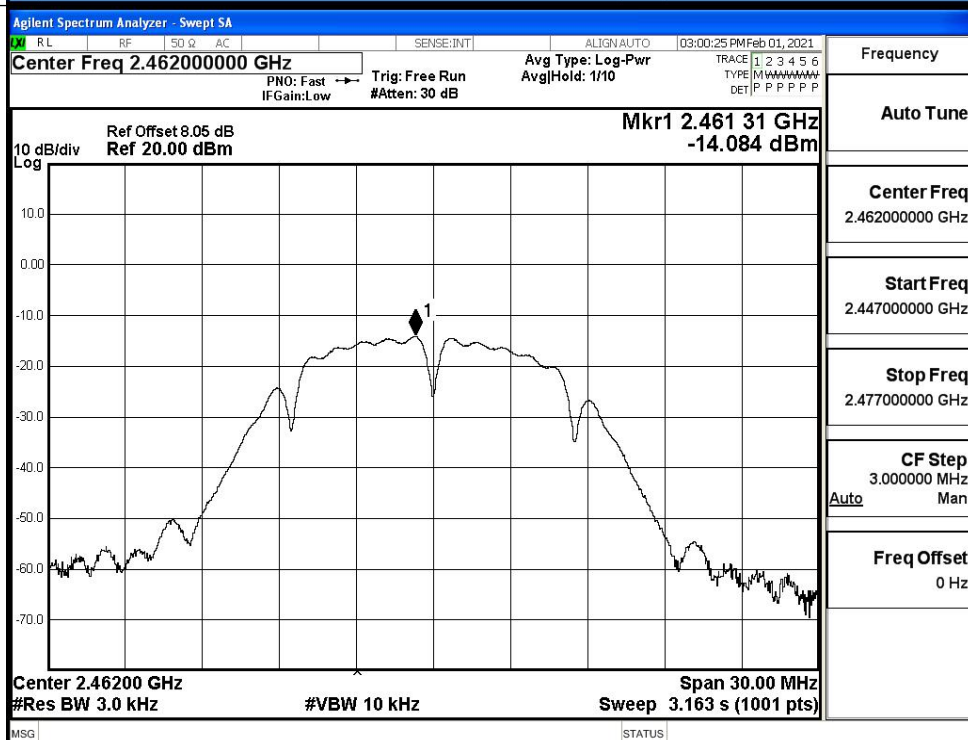
11B/LCH



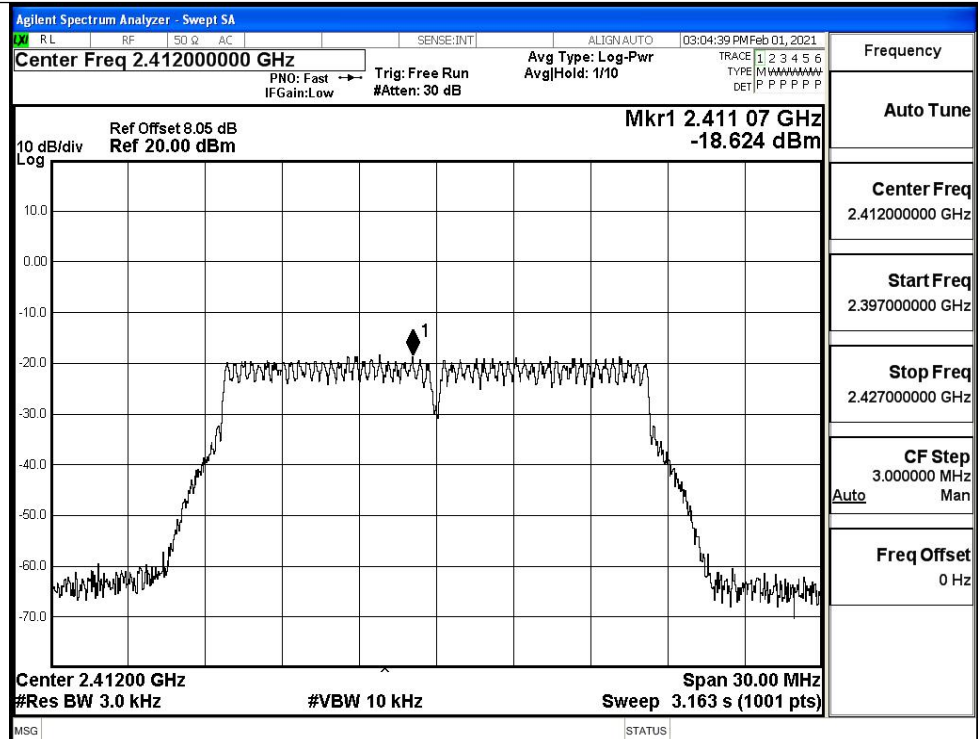
11B/MCH



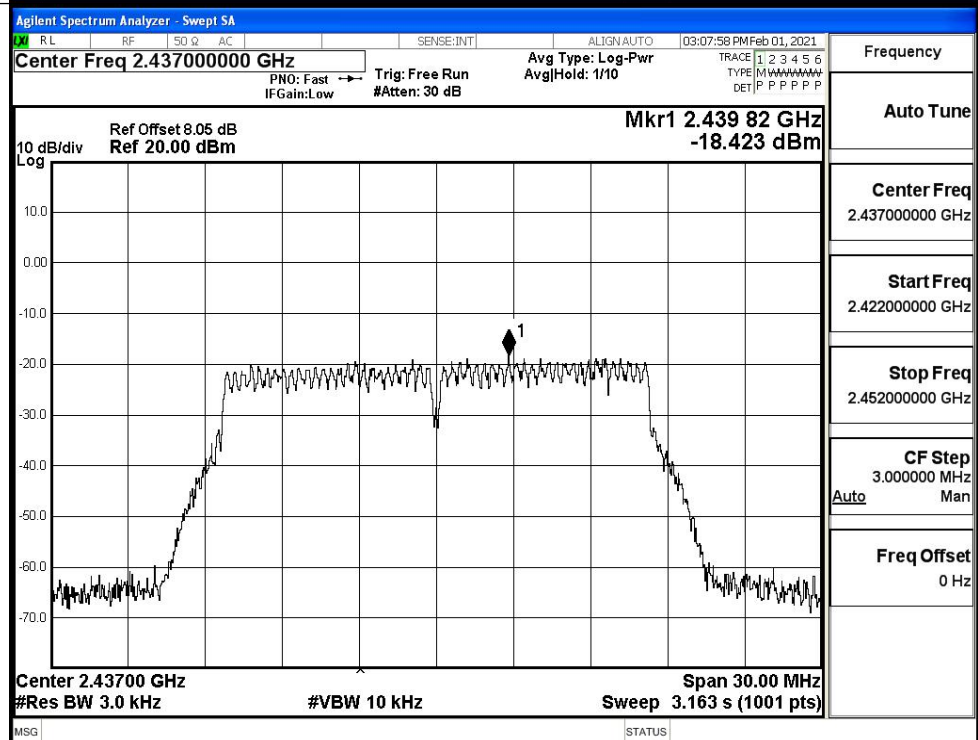
11B/HCH



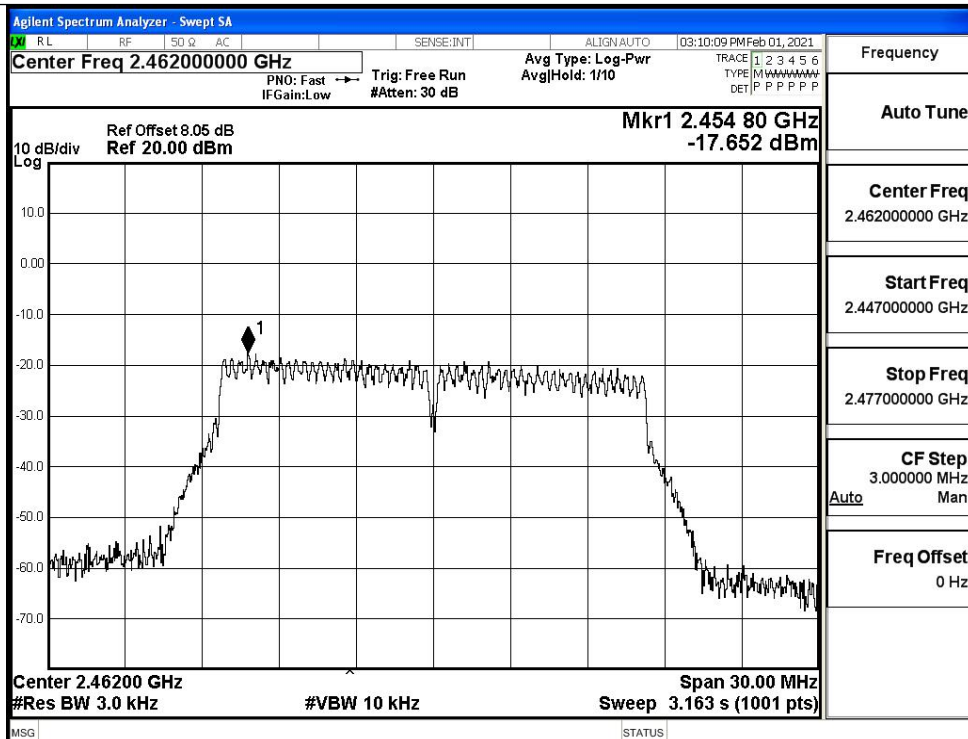
11G/LCH



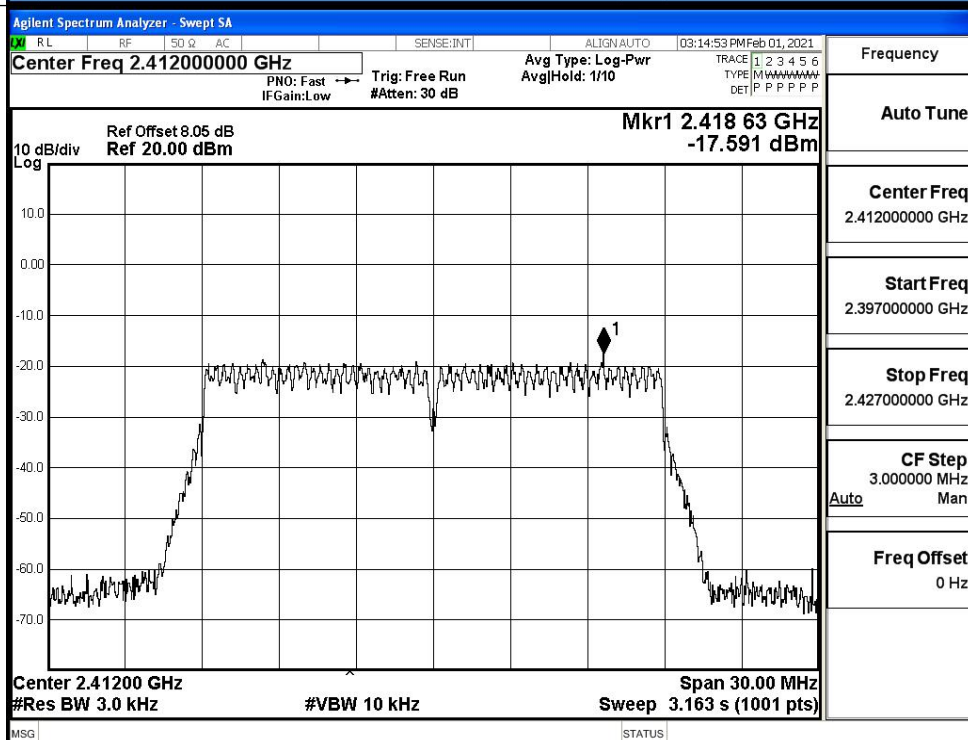
11G/MCH



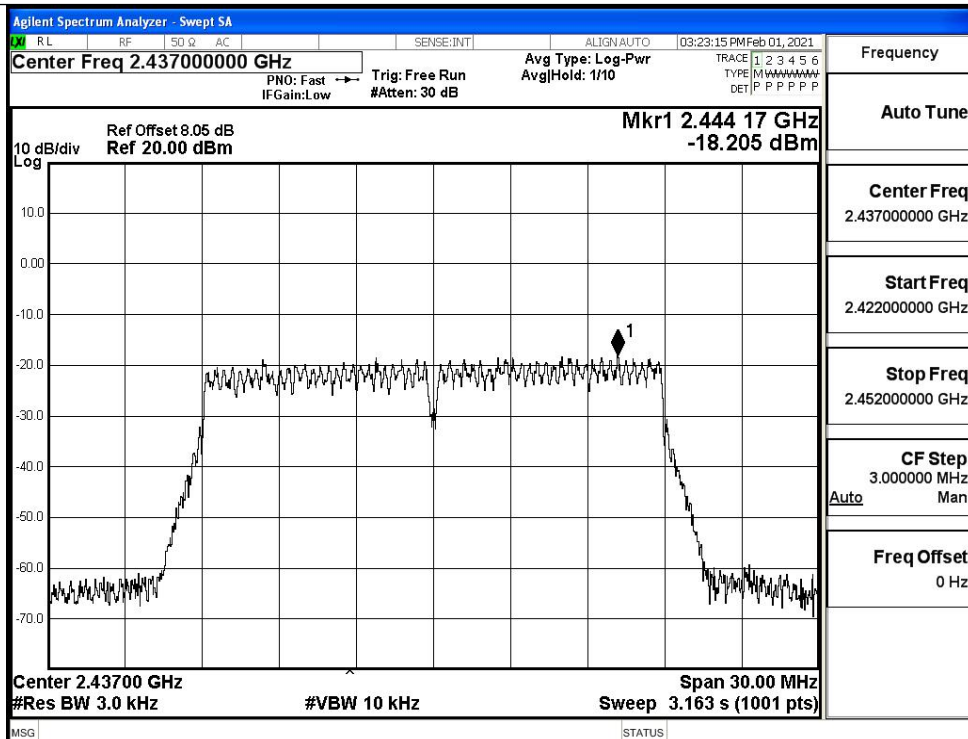
11G/HCH



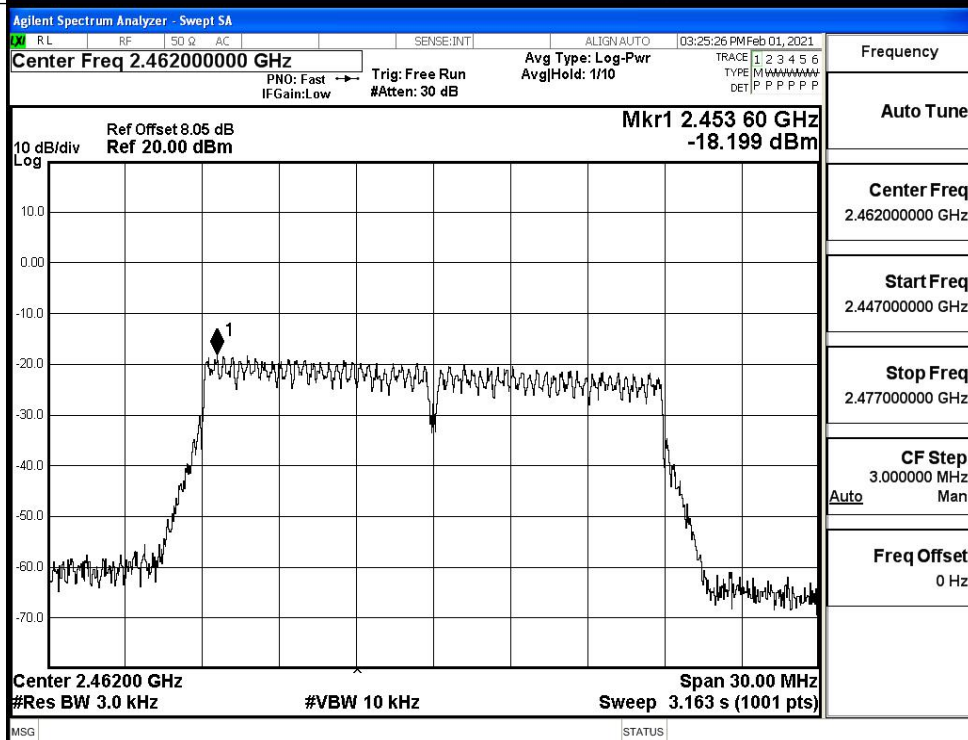
11N20SISO/LCH



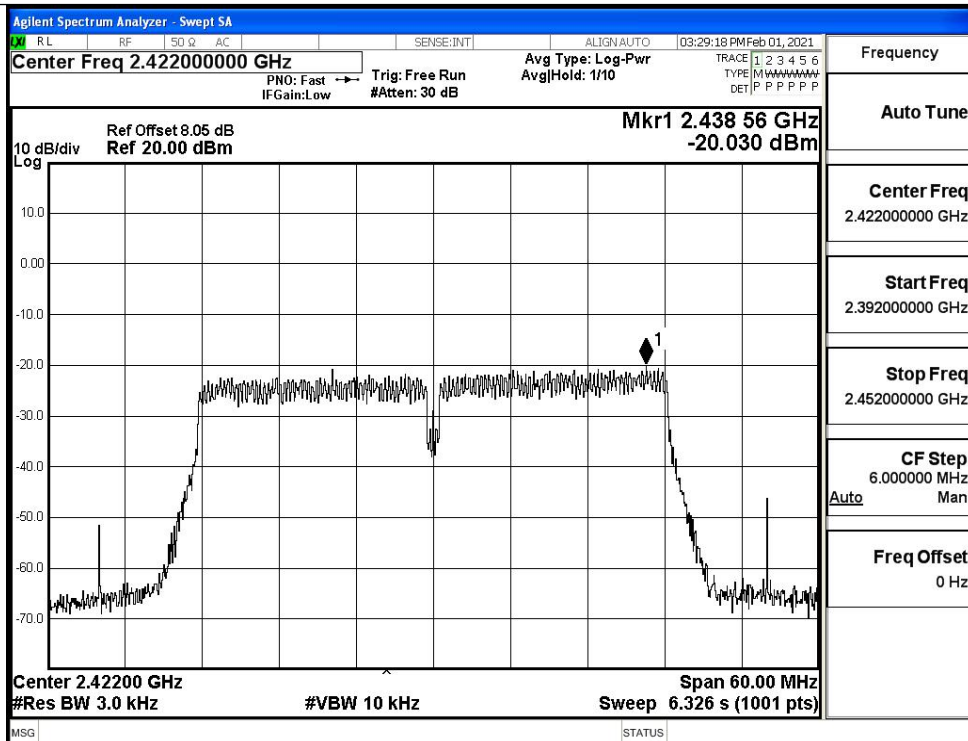
11N20SISO/MCH



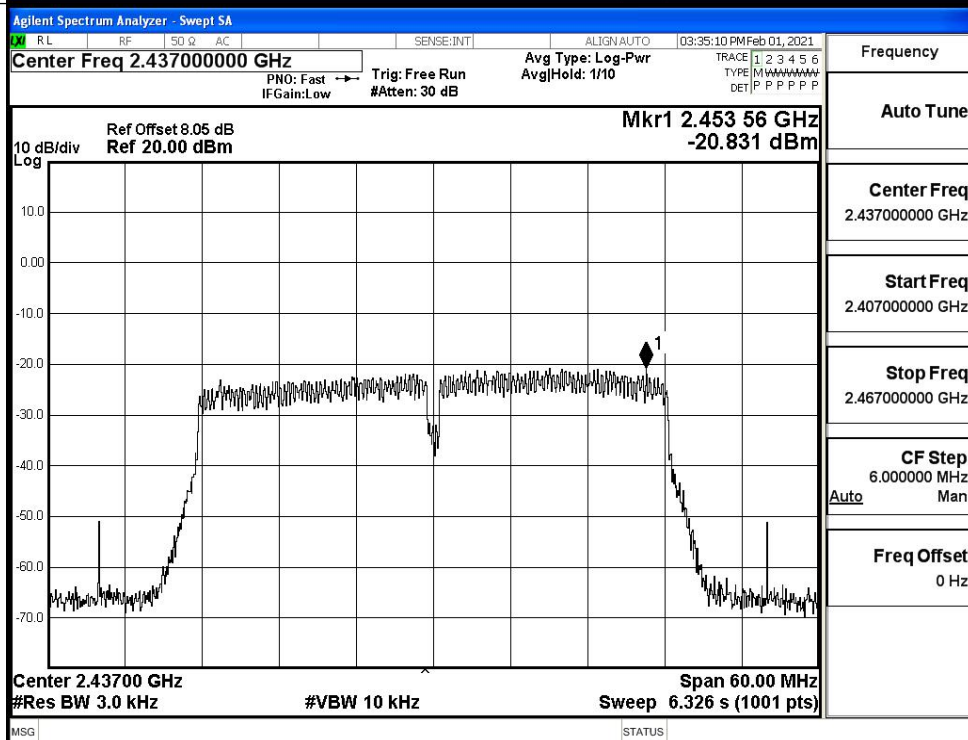
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/MCH



Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC SENSE:INT ALIGN AUTO 03:36:36 PM Feb 01, 2021

Center Freq 2.452000000 GHz PNO: Fast → Trig: Free Run Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
 IF Gain: Low #Atten: 30 dB Avg/Hold: 1/10 TYPE M W W W W W W W W W
 DET P P P P P P P

Ref Offset 8.05 dB Mkr1 2.444 14 GHz
 Ref 20.00 dBm -20.172 dBm

10 dB/div
Log

Center 2.45200 GHz Span 60.00 MHz
 #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)

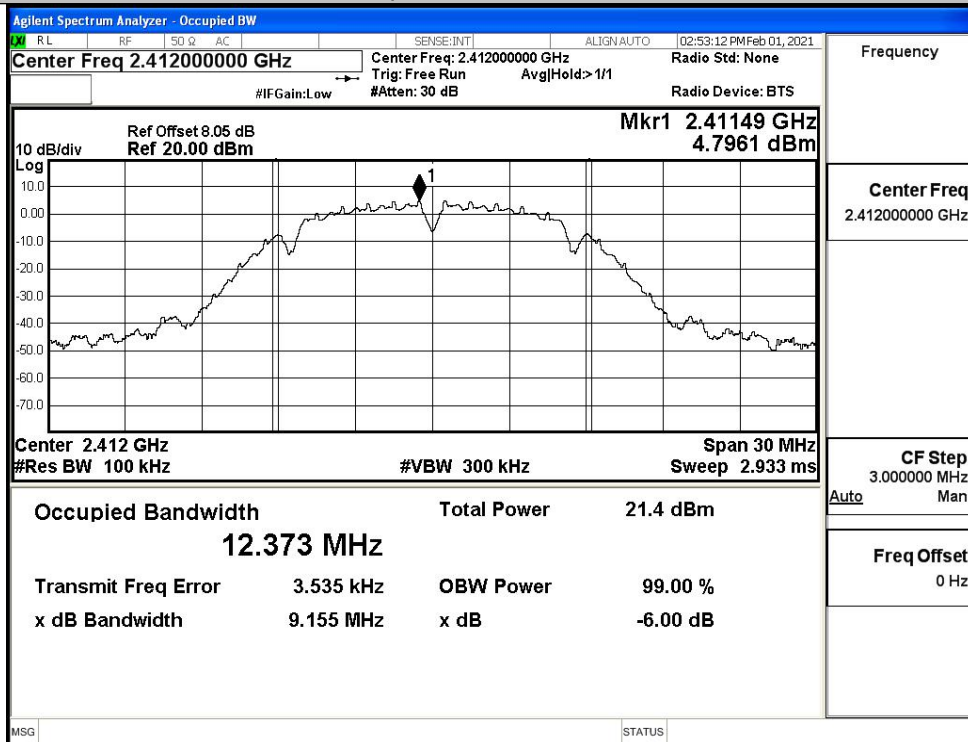
Frequency
 Auto Tune
 Center Freq
 2.452000000 GHz
 Start Freq
 2.422000000 GHz
 Stop Freq
 2.482000000 GHz
 CF Step
 6.000000 MHz
 Auto Man
 Freq Offset
 0 Hz

C.4 6dB Bandwidth

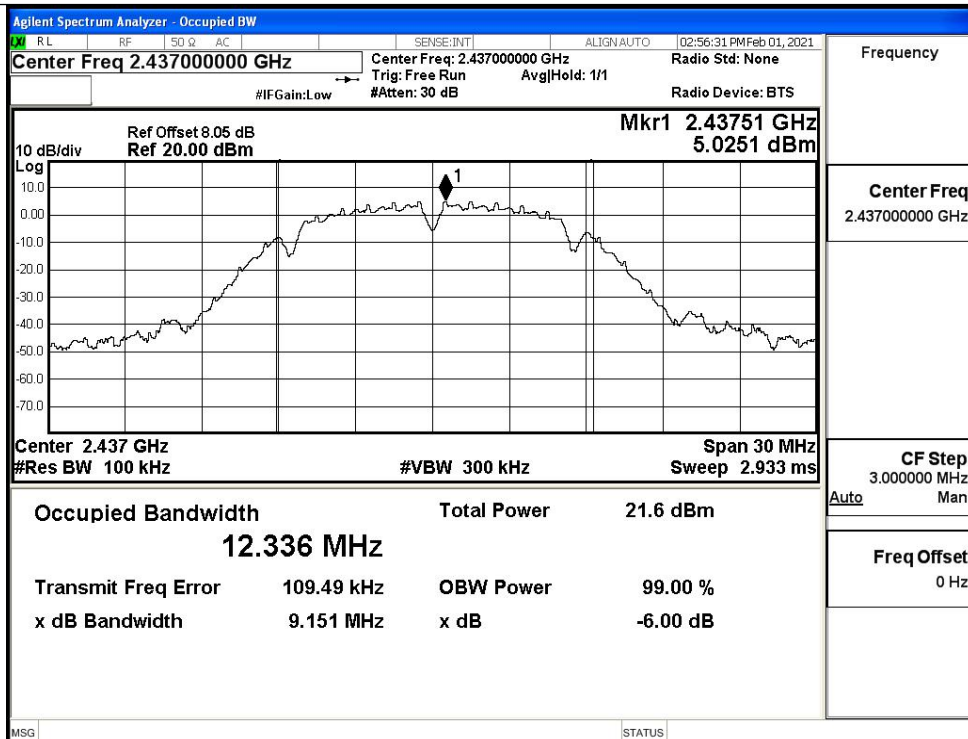
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.155	≥ 0.5	PASS
	MCH	9.151	≥ 0.5	PASS
	HCH	9.521	≥ 0.5	PASS
11G	LCH	16.62	≥ 0.5	PASS
	MCH	16.53	≥ 0.5	PASS
	HCH	16.55	≥ 0.5	PASS
11N20SISO	LCH	17.84	≥ 0.5	PASS
	MCH	17.79	≥ 0.5	PASS
	HCH	17.75	≥ 0.5	PASS
11N40SISO	LCH	36.52	≥ 0.5	PASS
	MCH	36.42	≥ 0.5	PASS
	HCH	36.14	≥ 0.5	PASS

Test Graphs

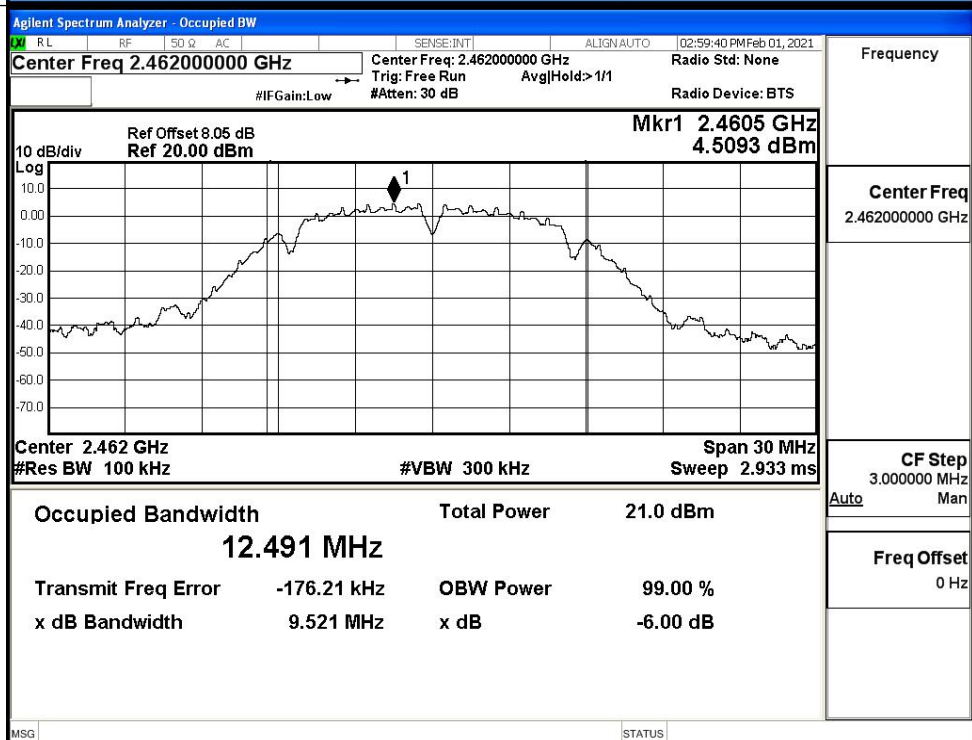
11B/LCH



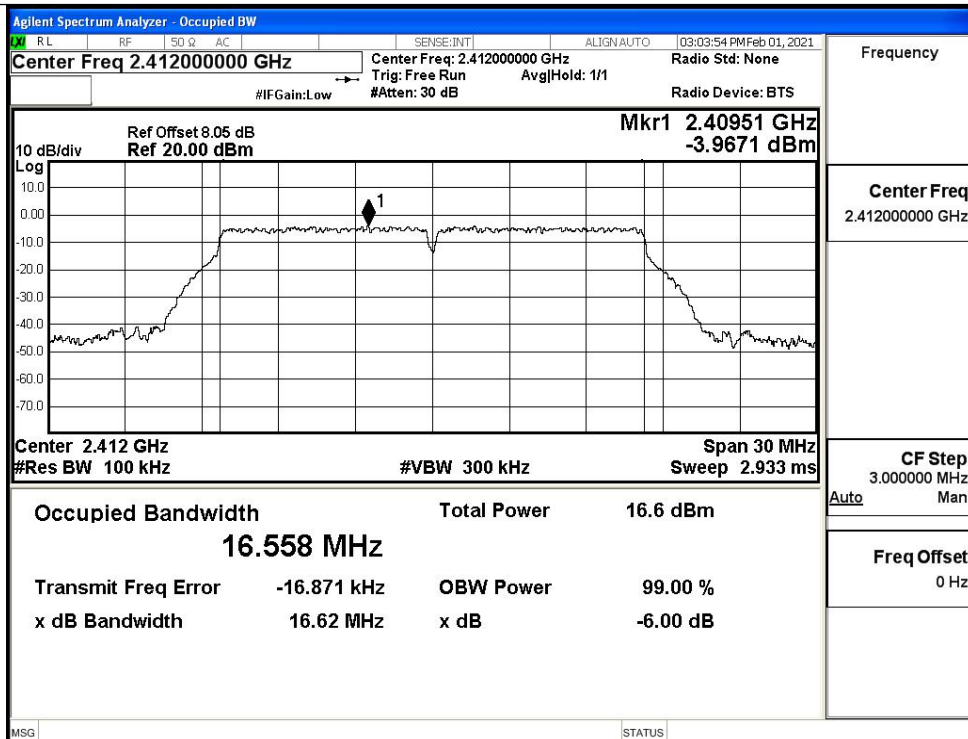
11B/MCH



11B/HCH



11G/LCH



11G/MCH

