

## Appendix B

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Sound Machine Night Light

Trade Mark: GRDE

Test Model: NL01

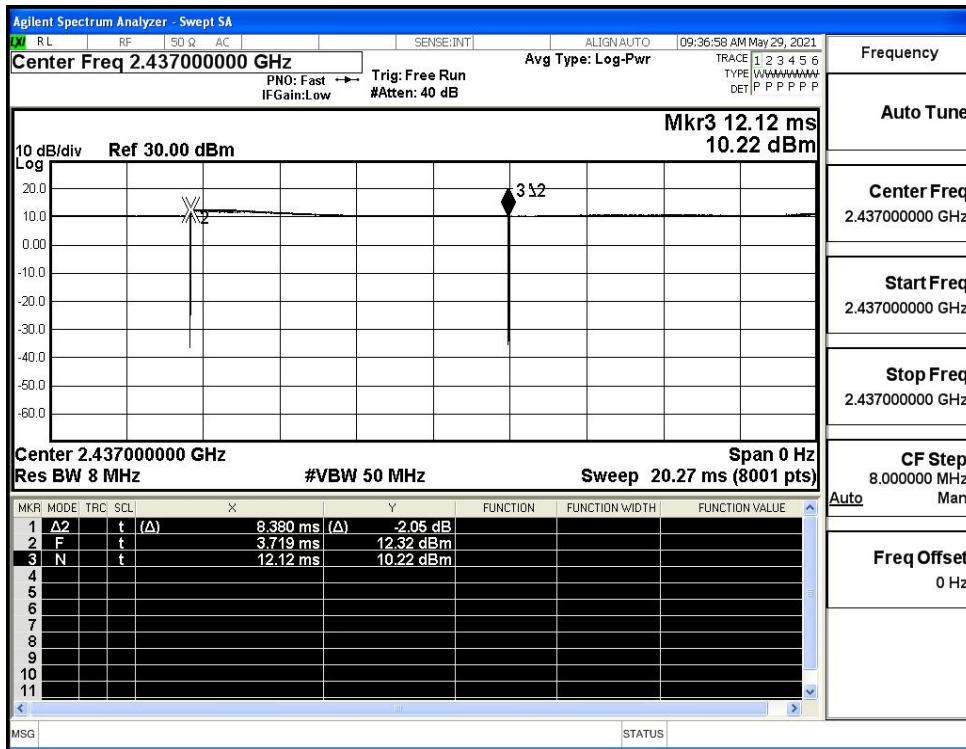
#### Environmental Conditions

Temperature:	24.4 ° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

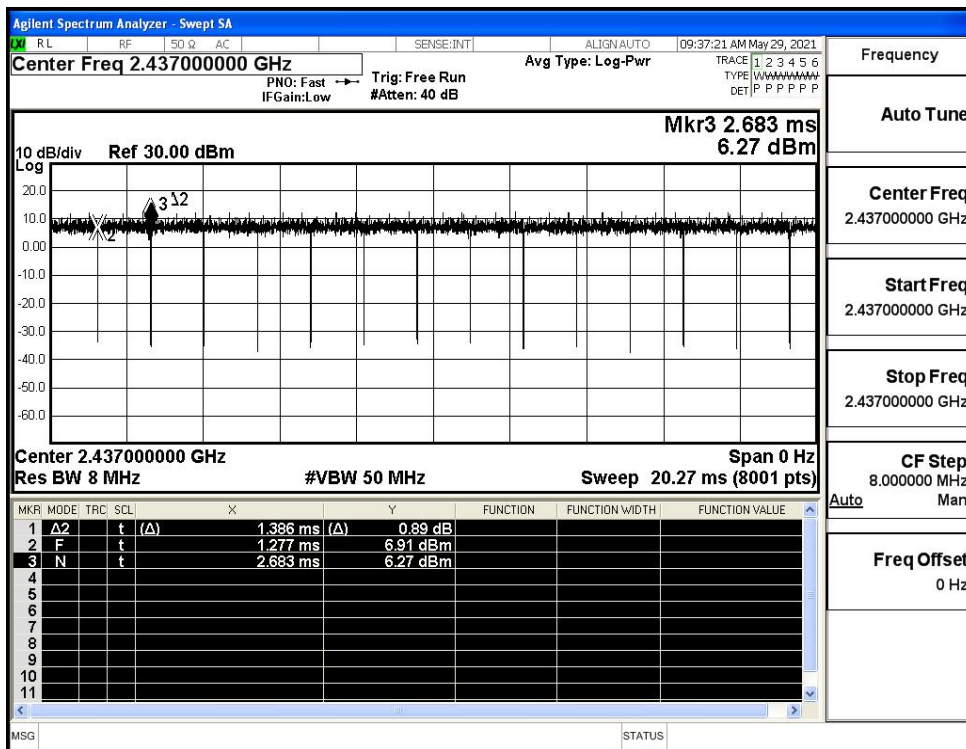
#### B.1 Duty Cycle

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

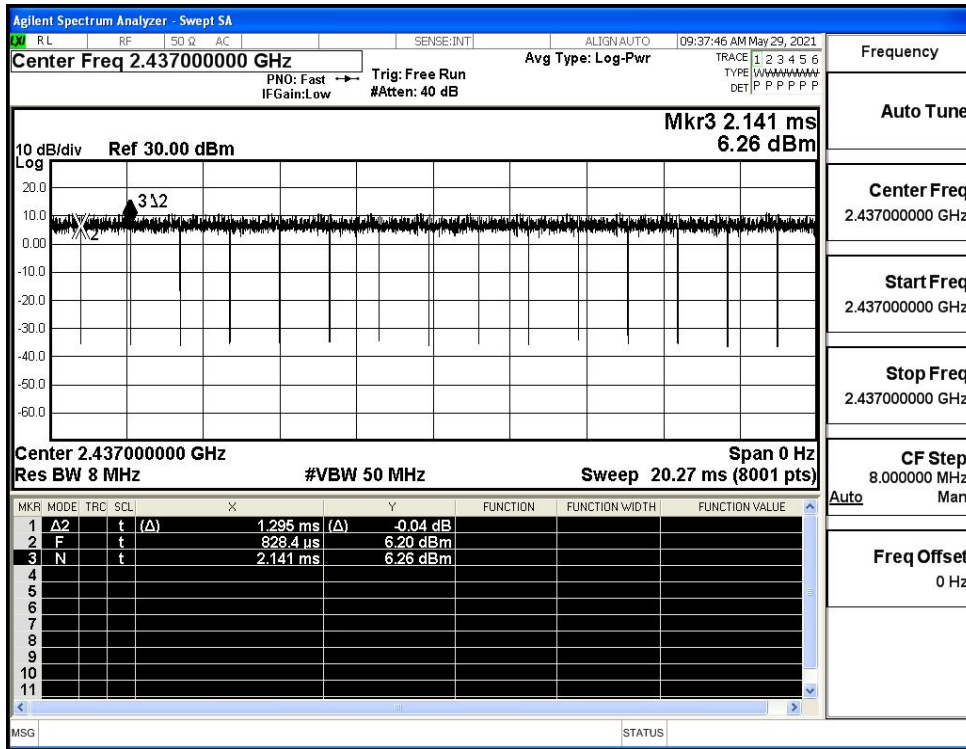
Duty Cycle\_11B\_2437\_Ant1



Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



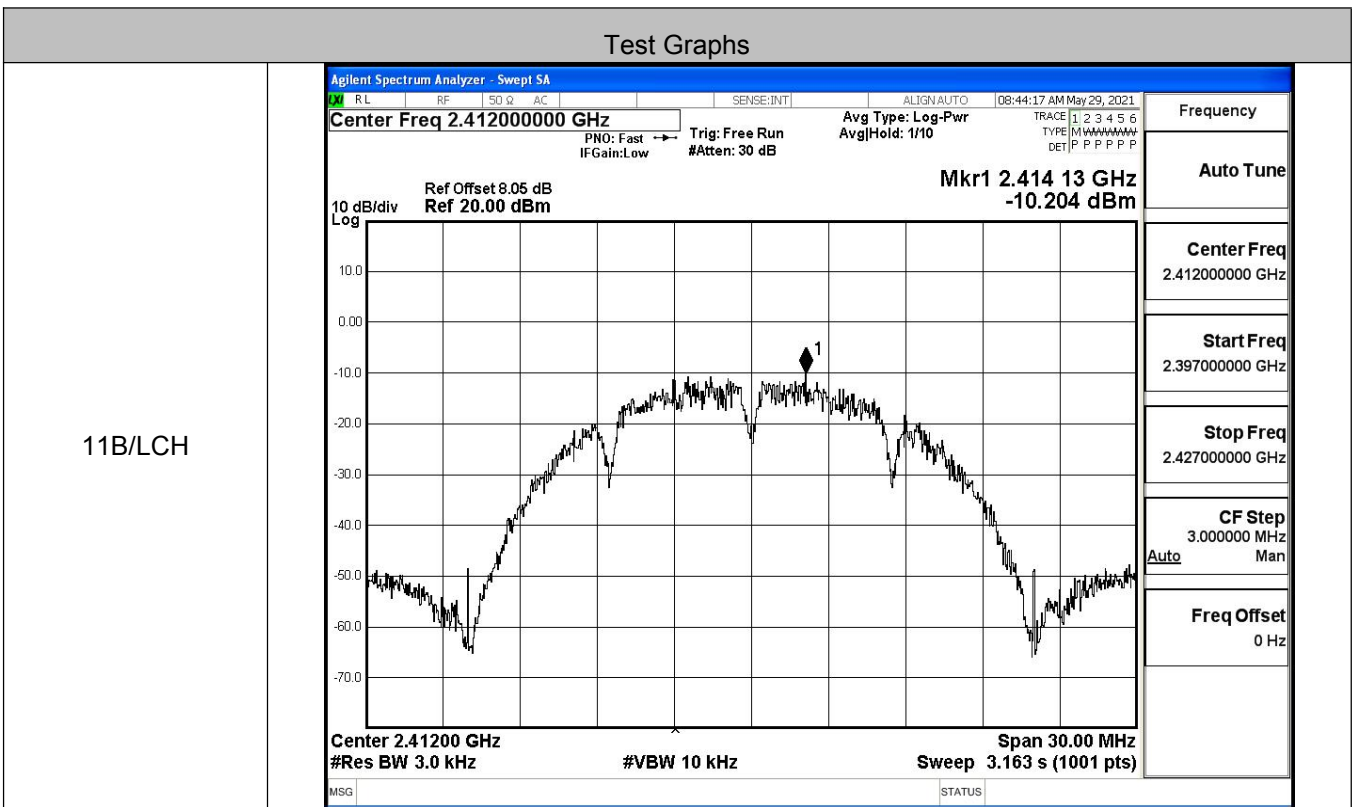
**B.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.48	30	PASS
	MCH	17.78	30	PASS
	HCH	17.48	30	PASS
11G	LCH	17.42	30	PASS
	MCH	17.29	30	PASS
	HCH	17.54	30	PASS
11N20SISO	LCH	16.88	30	PASS
	MCH	17.74	30	PASS
	HCH	17.14	30	PASS

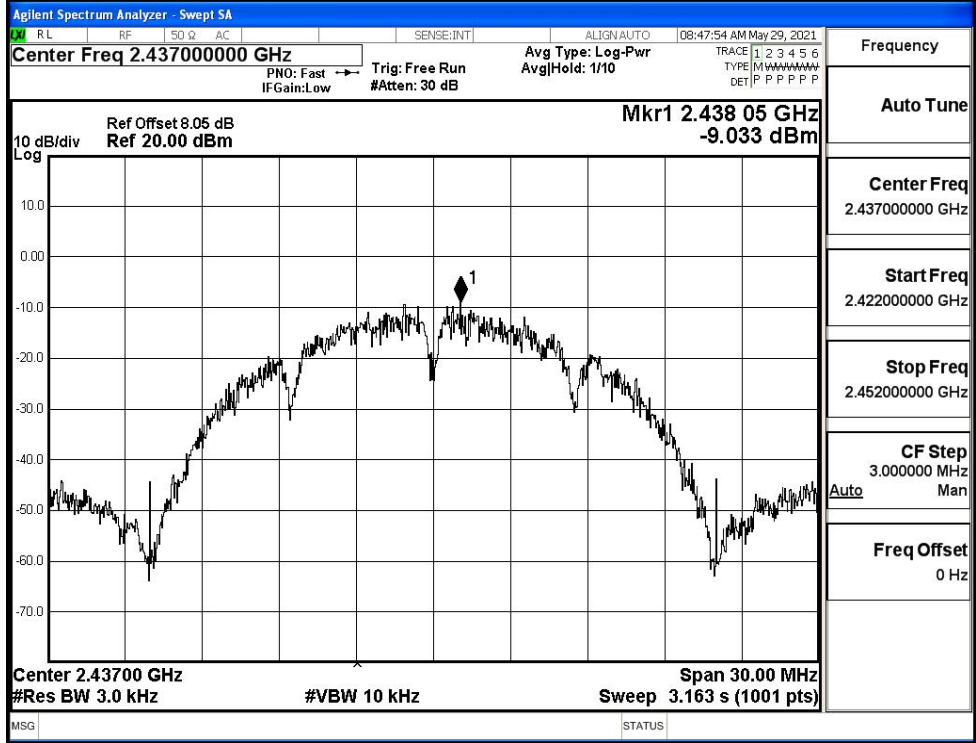
### B.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.204	8	PASS
	MCH	-9.033	8	PASS
	HCH	-10.125	8	PASS
11G	LCH	-14.937	8	PASS
	MCH	-15.407	8	PASS
	HCH	-15.129	8	PASS
11N20SISO	LCH	-14.519	8	PASS
	MCH	-14.673	8	PASS
	HCH	-14.536	8	PASS

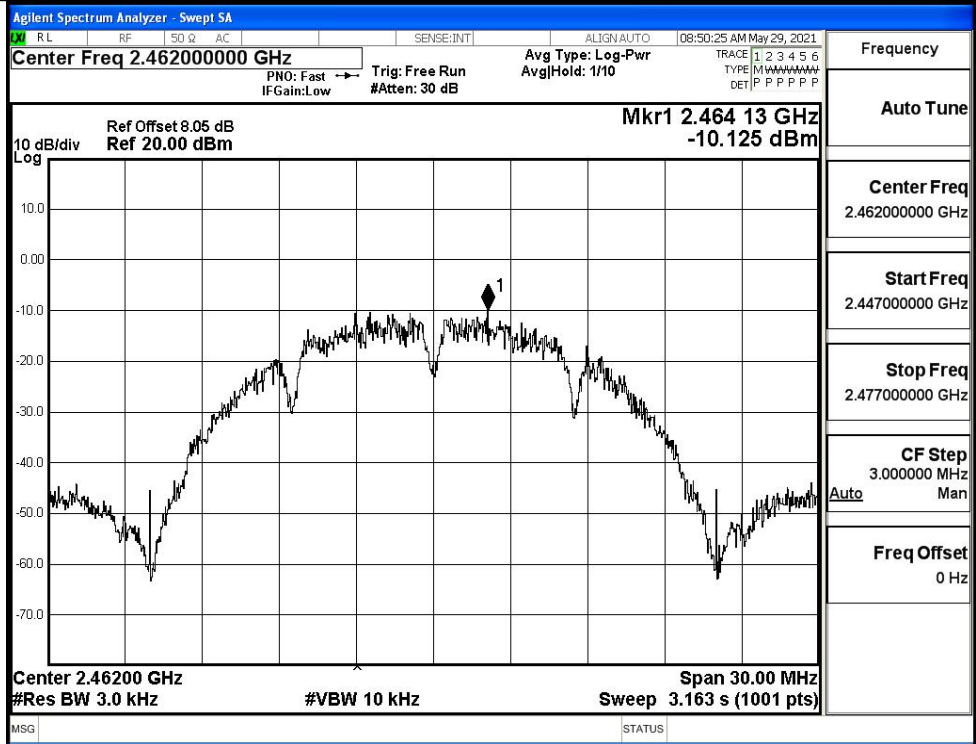
#### Test Graphs



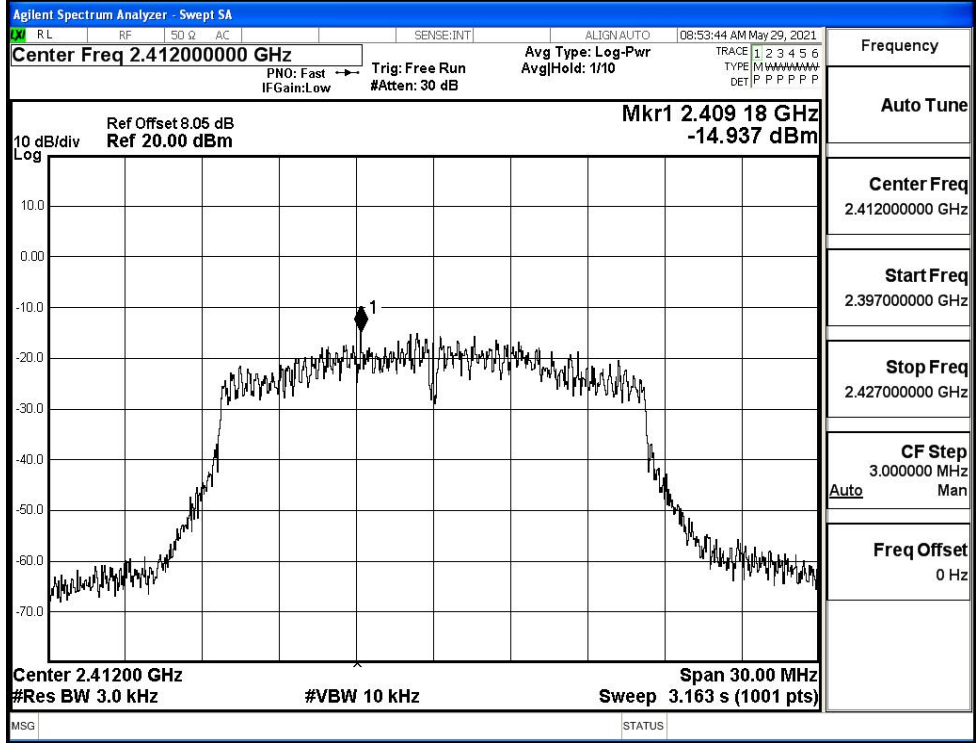
11B/MCH



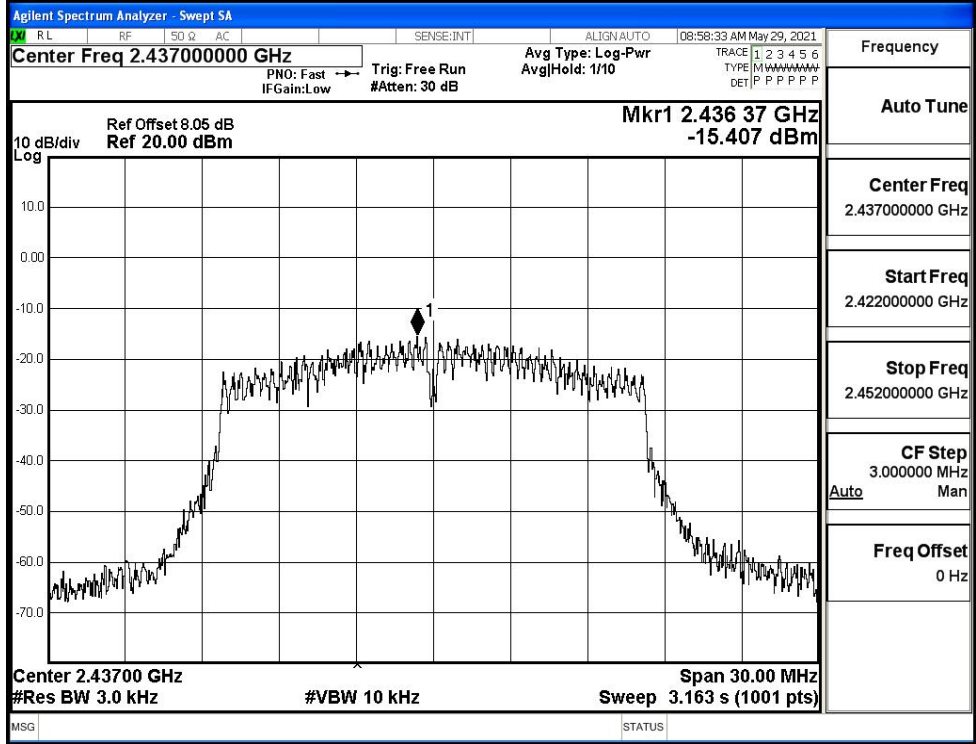
11B/HCH



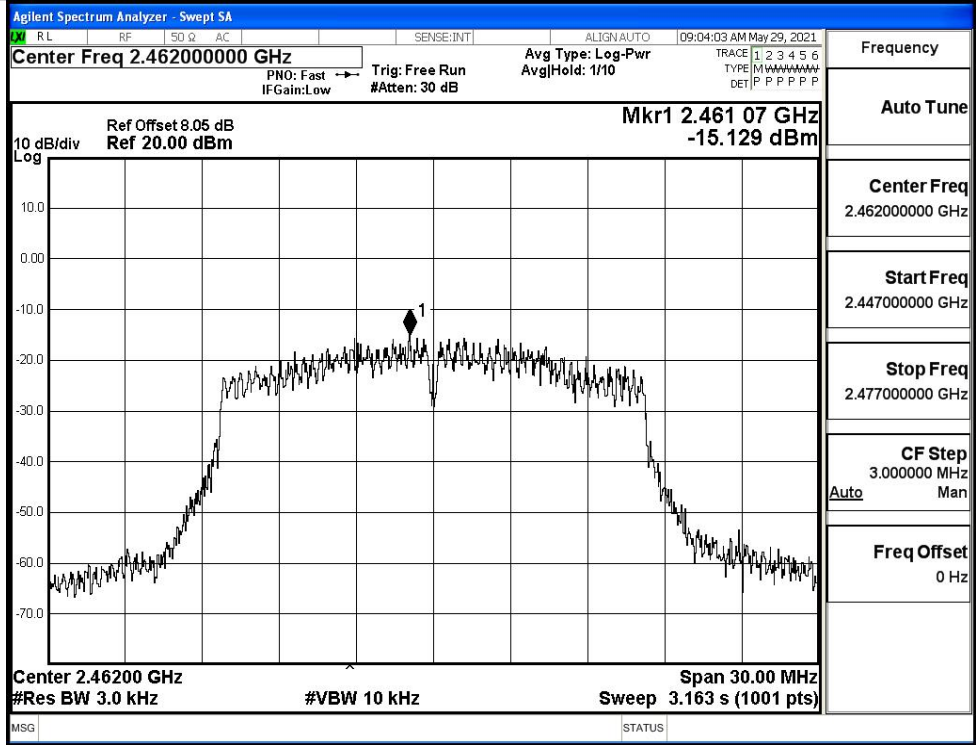
11G/LCH



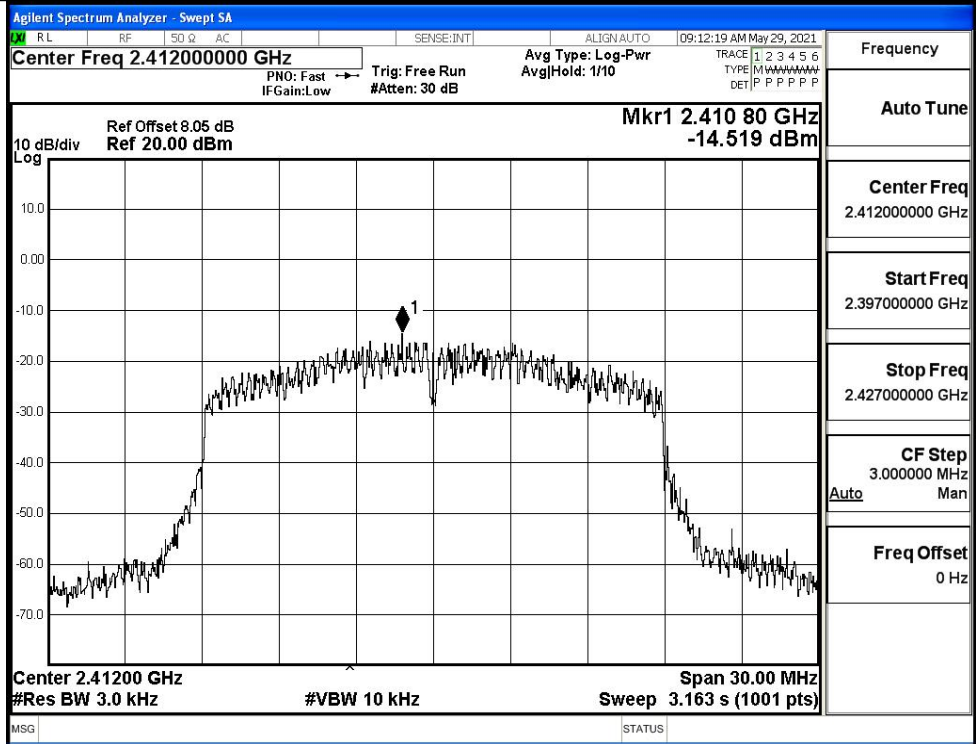
11G/MCH



11G/HCH

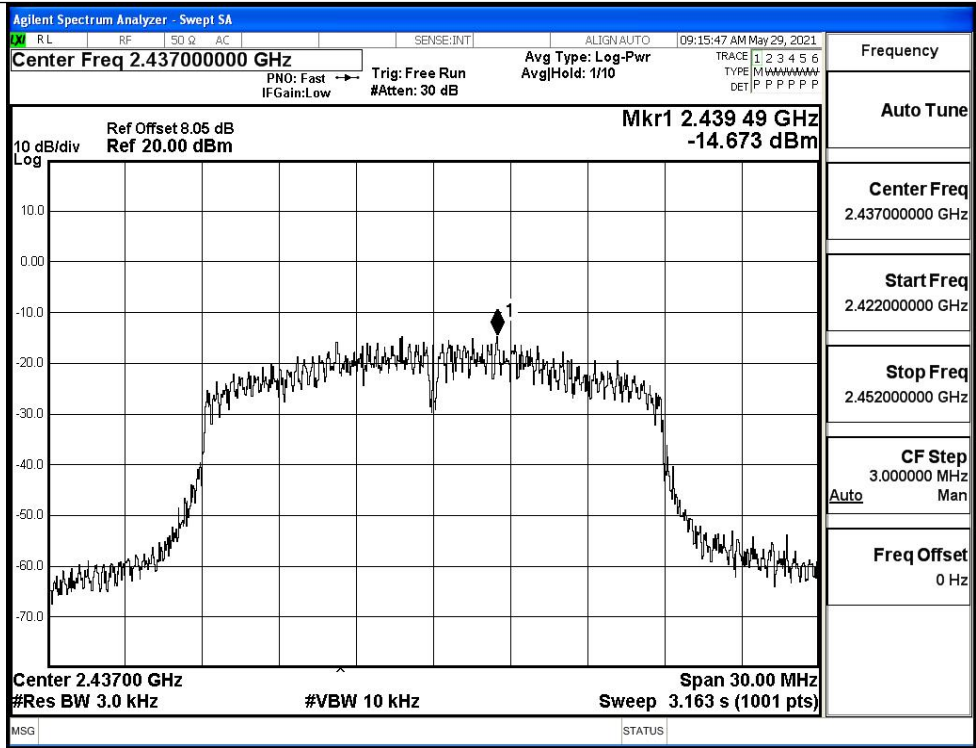


11N20SISO/LCH

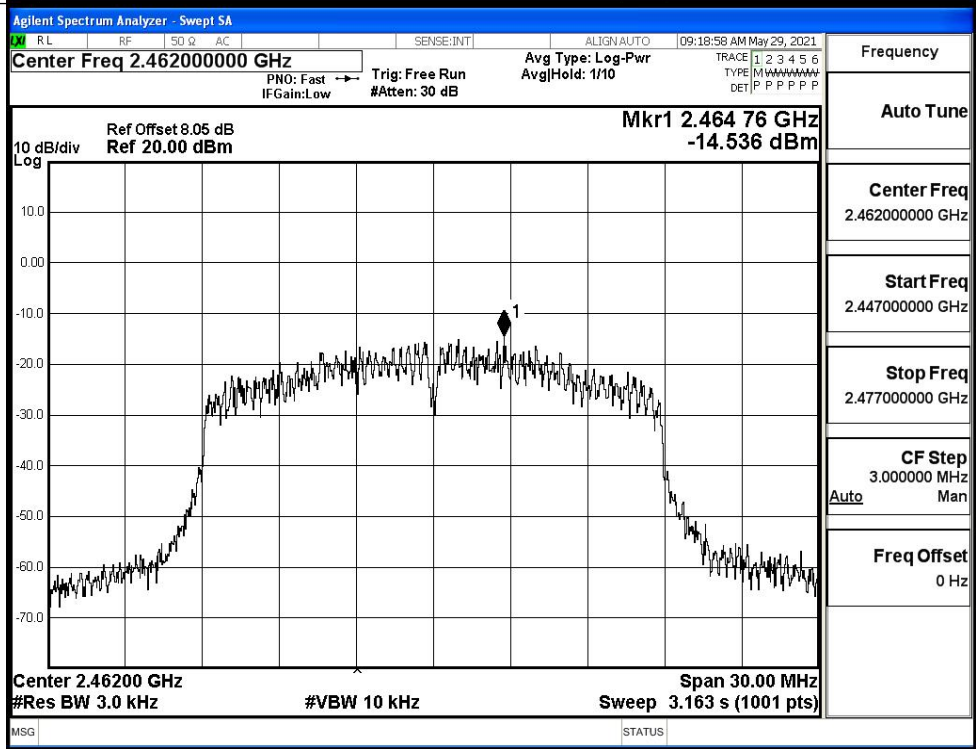




11N20SISO/MCH



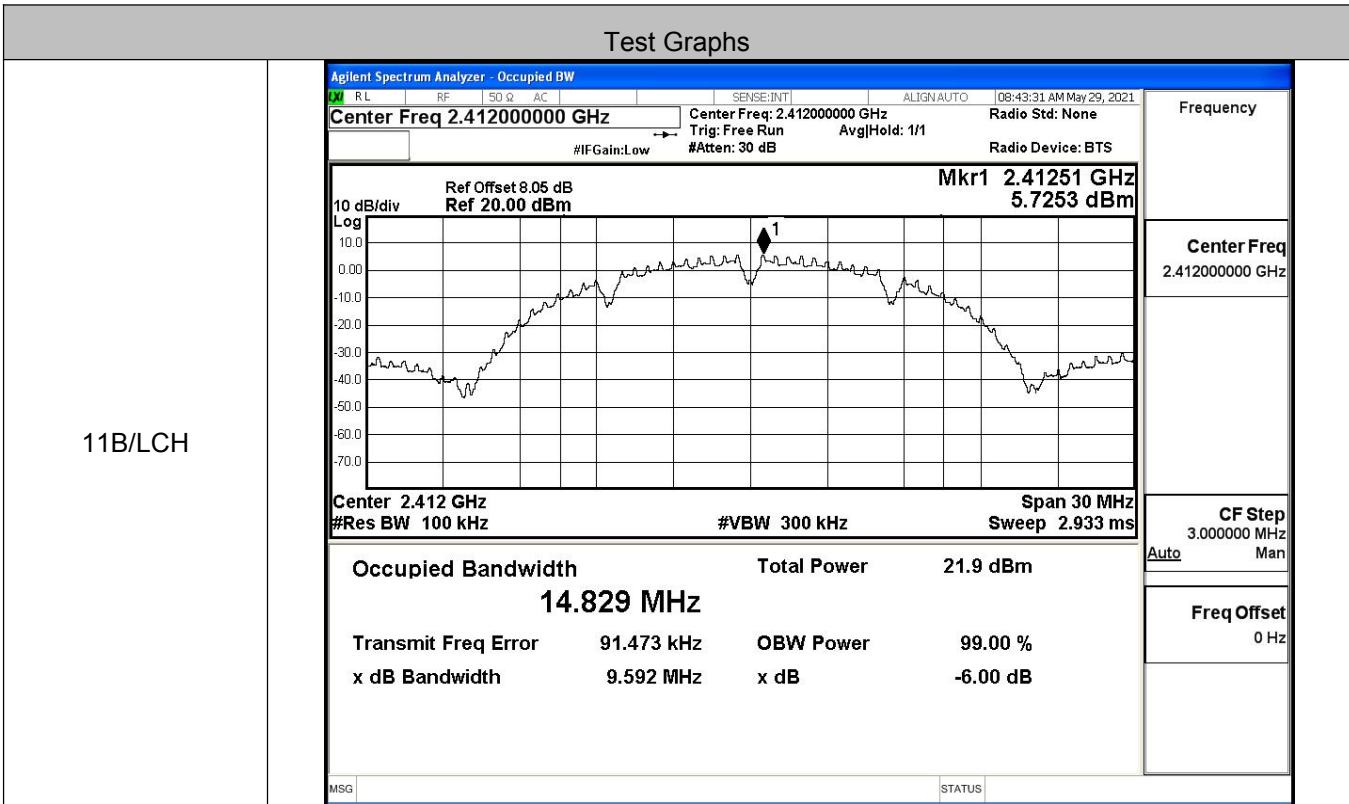
11N20SISO/HCH



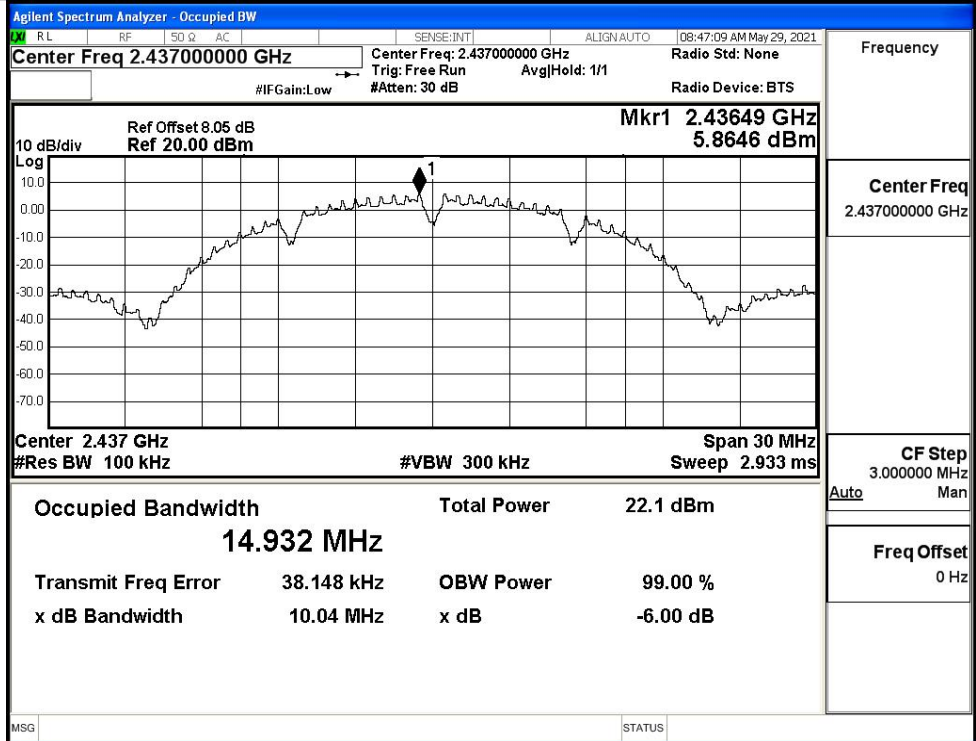
**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.592	≥0.5	PASS
	MCH	10.04	≥0.5	PASS
	HCH	9.591	≥0.5	PASS
11G	LCH	12.58	≥0.5	PASS
	MCH	11.33	≥0.5	PASS
	HCH	11.32	≥0.5	PASS
11N20SISO	LCH	11.36	≥0.5	PASS
	MCH	11.31	≥0.5	PASS
	HCH	12.58	≥0.5	PASS

**Test Graphs**

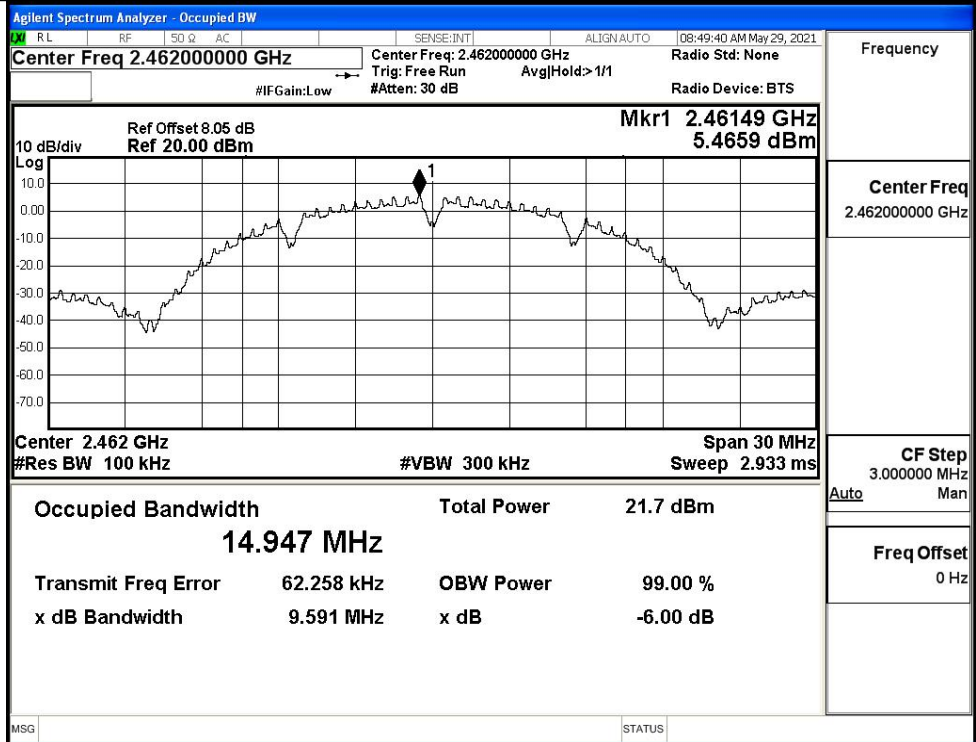


11B/MCH



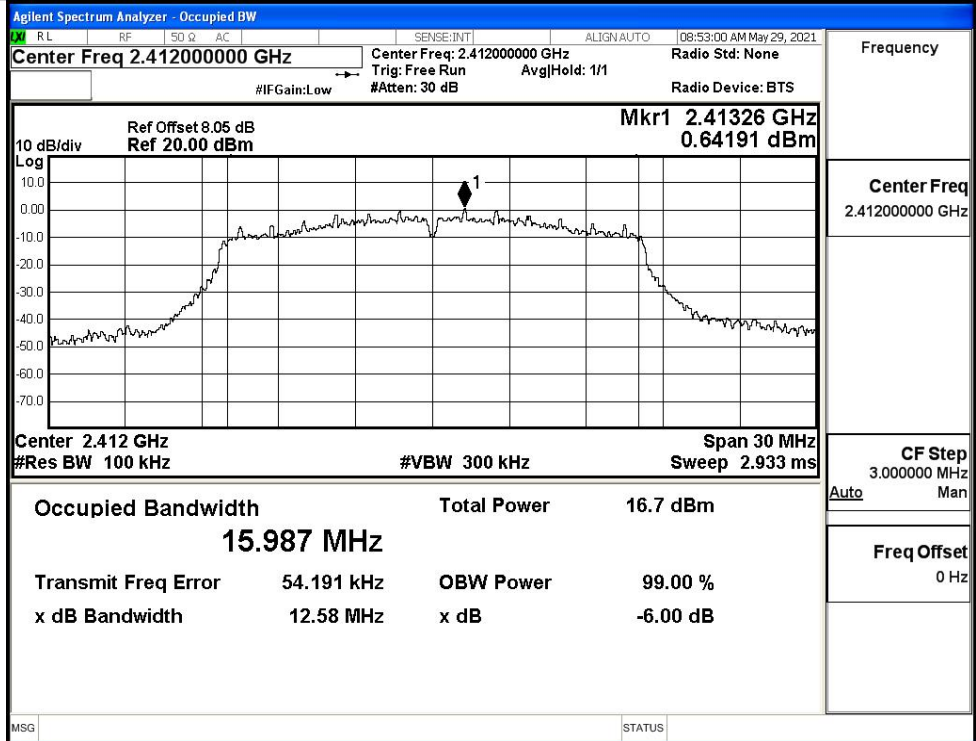
Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11B/HCH



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

11G/LCH



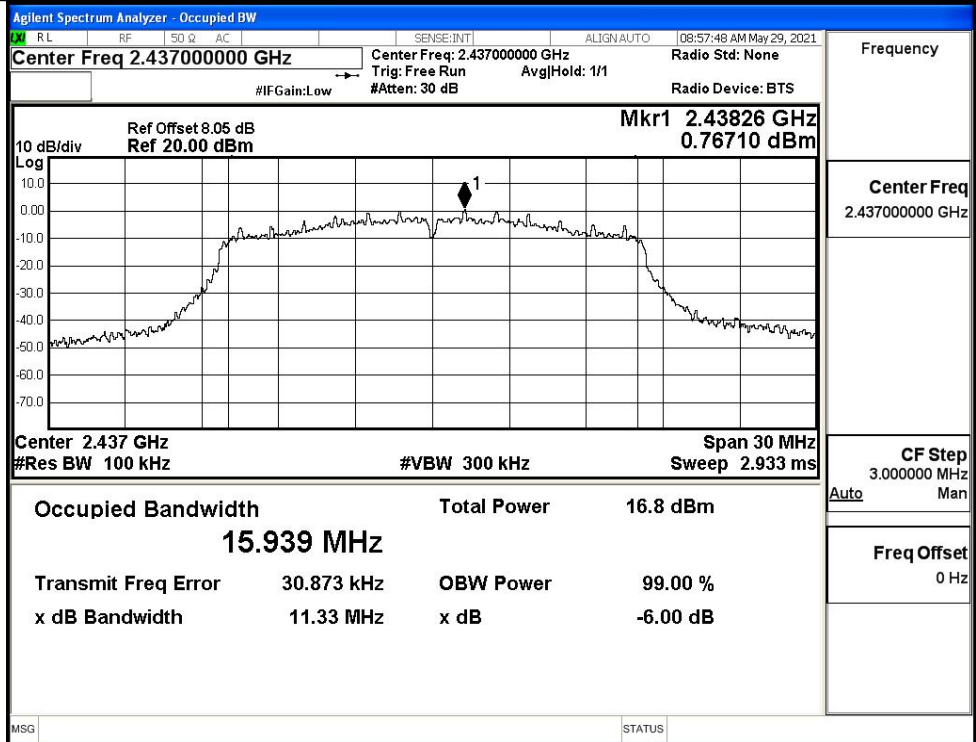
Frequency

Center Freq  
2.41200000 GHz

CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11G/MCH



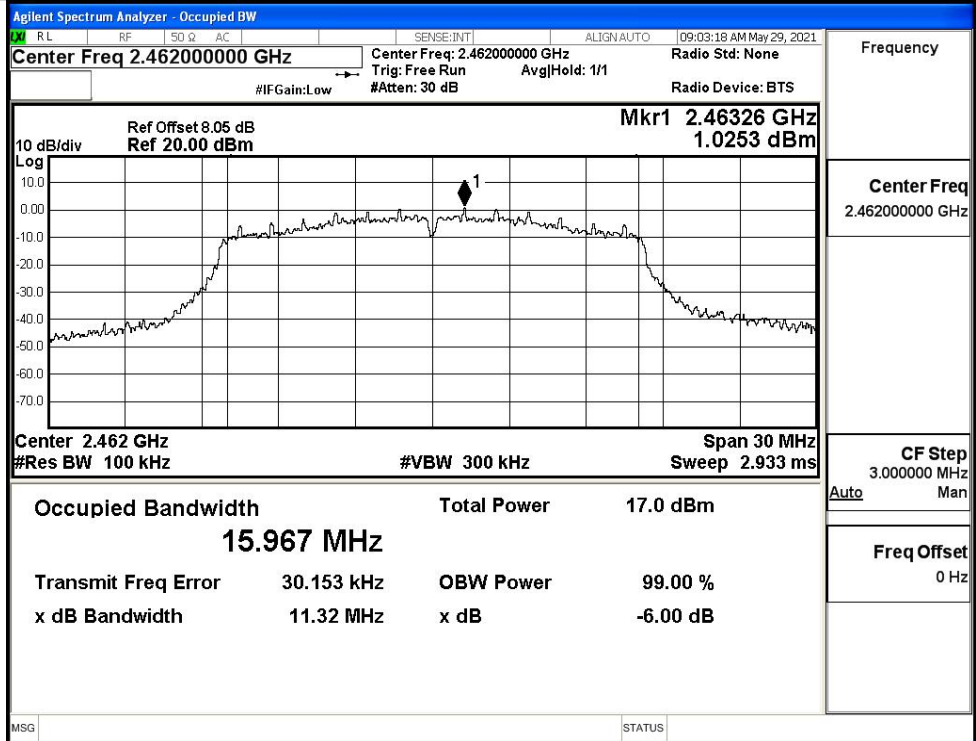
Frequency

Center Freq  
2.43700000 GHz

CF Step  
3.000000 MHz  
Auto Man

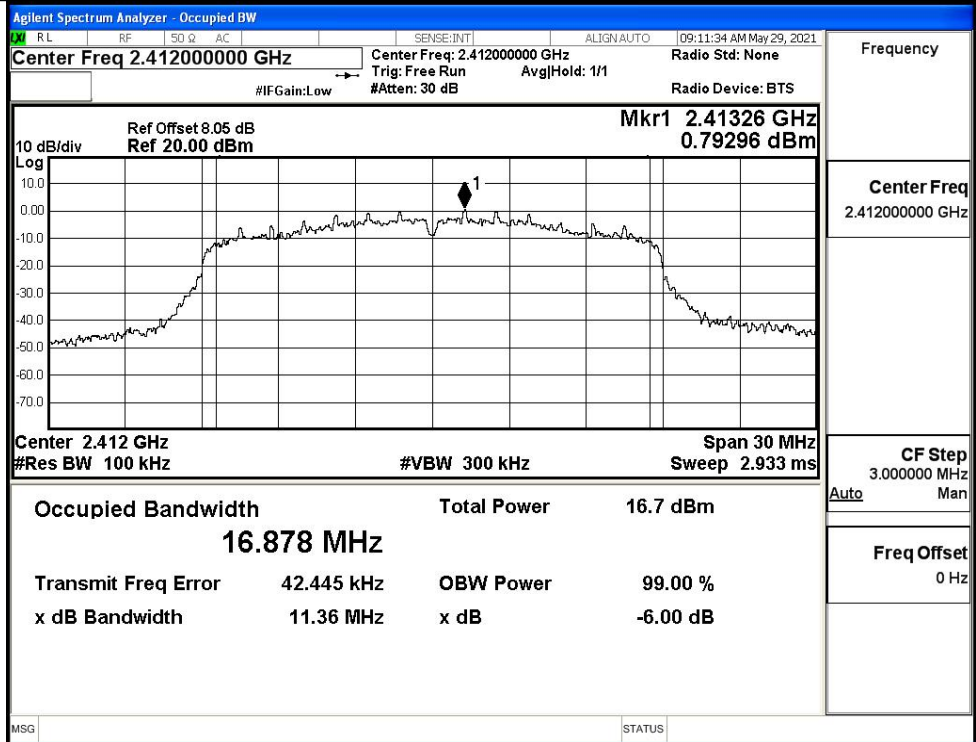
Freq Offset  
0 Hz

11G/HCH



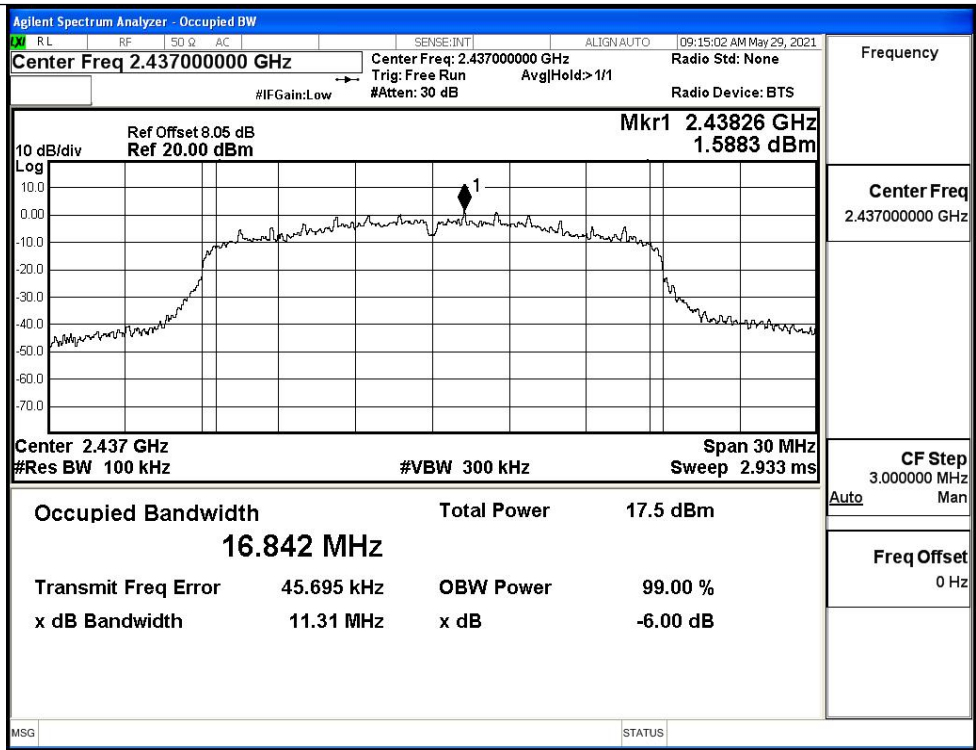
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

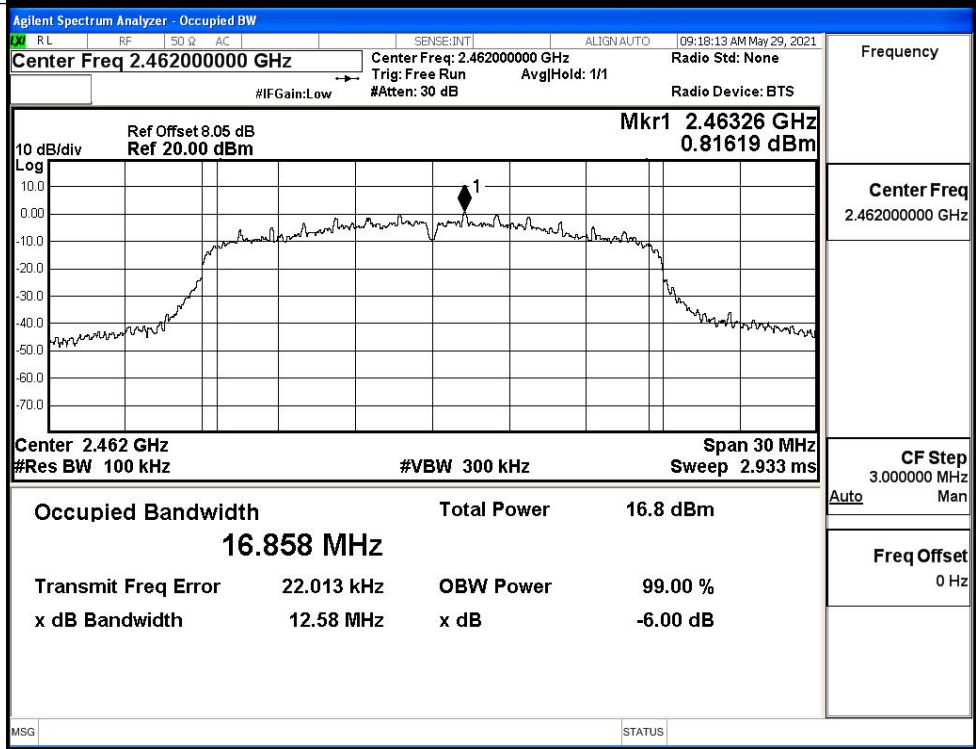


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH



11N20SISO/HCH

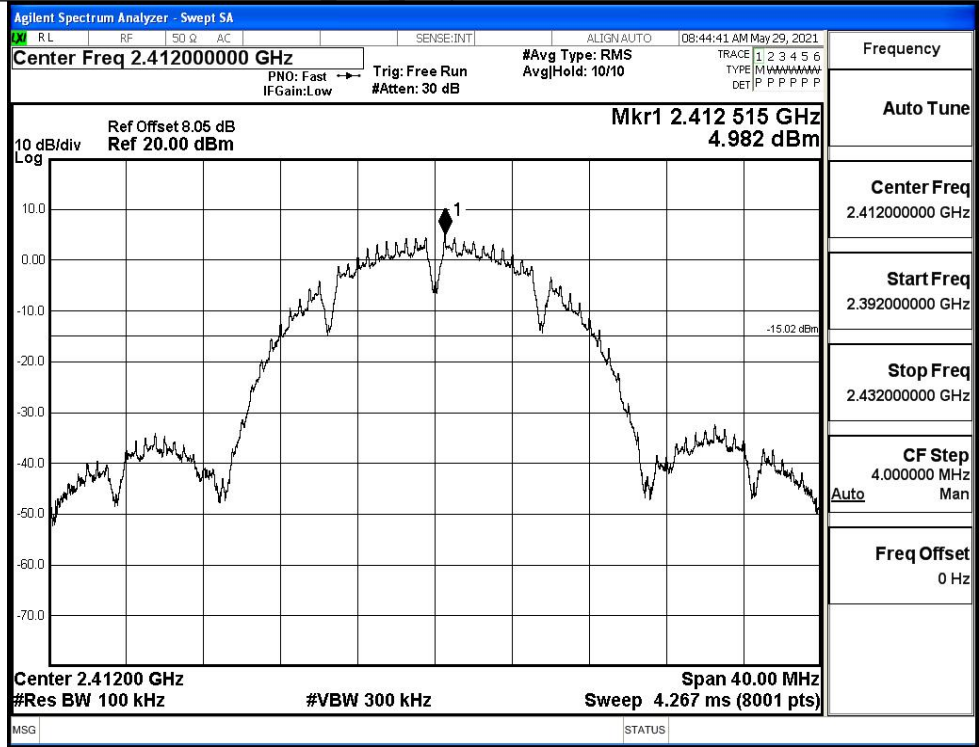


**B.5 RF Conducted Spurious Emissions**

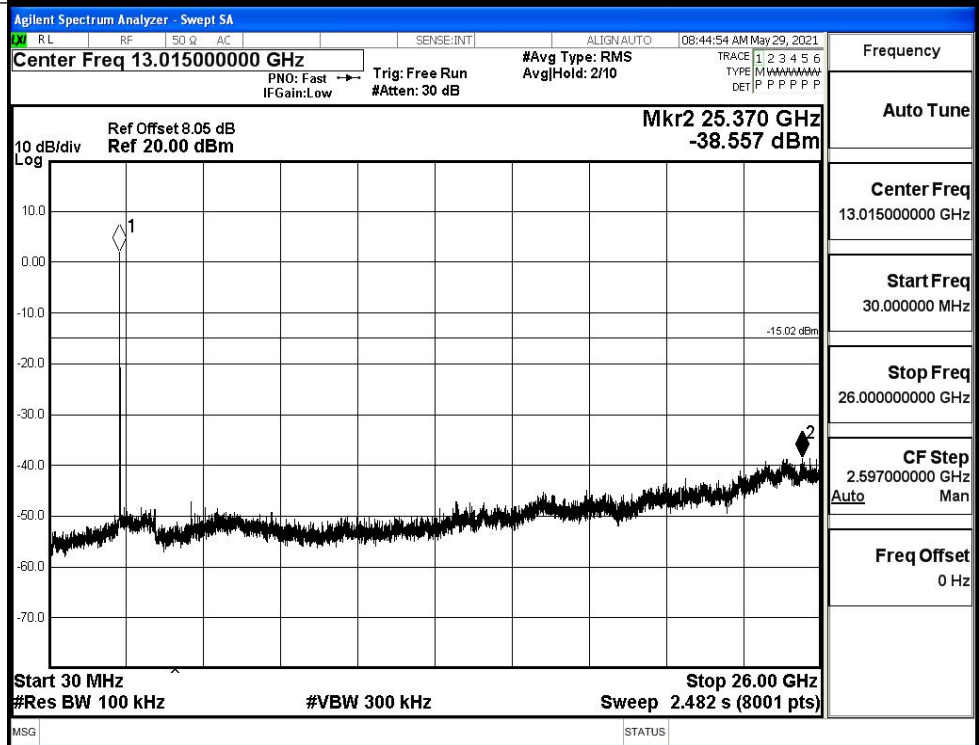
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.982	-38.557	-15.018	PASS
	MCH	5.512	-38.418	-14.488	PASS
	HCH	5.022	-37.565	-14.978	PASS
11G	LCH	0.523	-37.401	-19.477	PASS
	MCH	0.571	-37.791	-19.429	PASS
	HCH	-0.012	-38.238	-20.012	PASS
11N20 SISO	LCH	0.676	-38.415	-19.324	PASS
	MCH	1.36	-37.896	-18.640	PASS
	HCH	0.753	-37.501	-19.247	PASS

11B LCH Graphs

Pref/11B/LCH



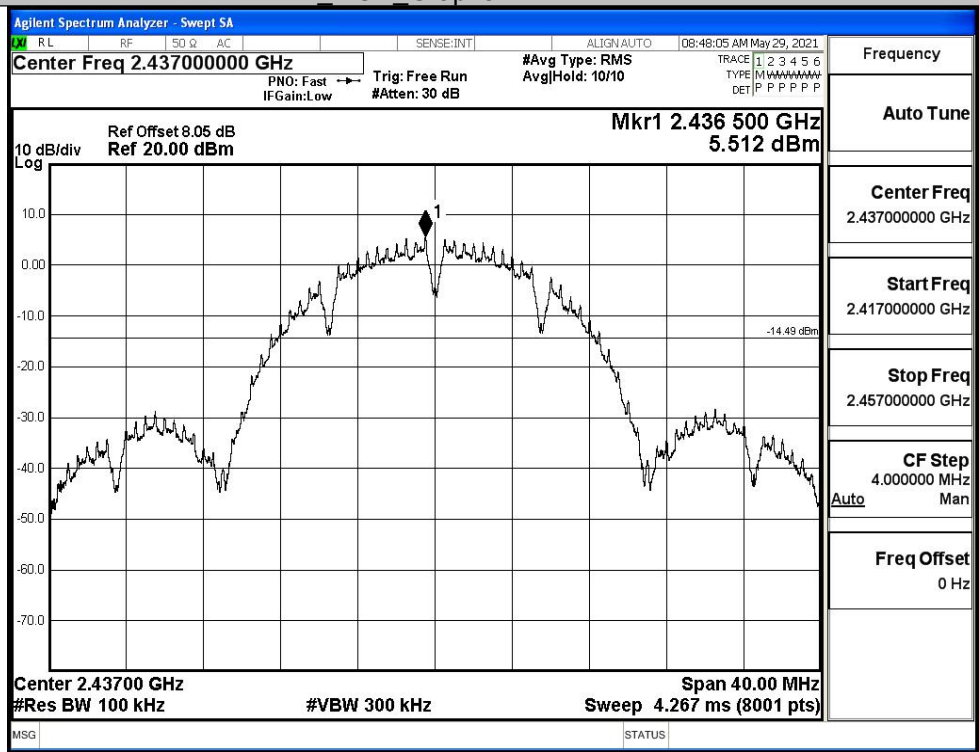
Puw/11B/LCH



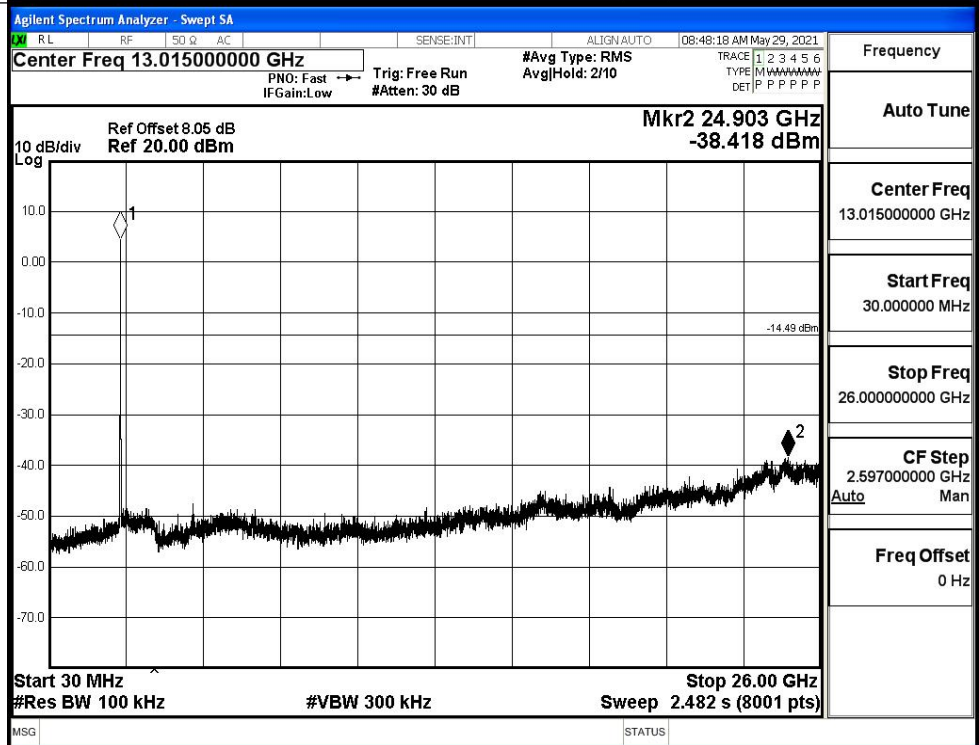


11B MCH Graphs

Pref/11B/MCH



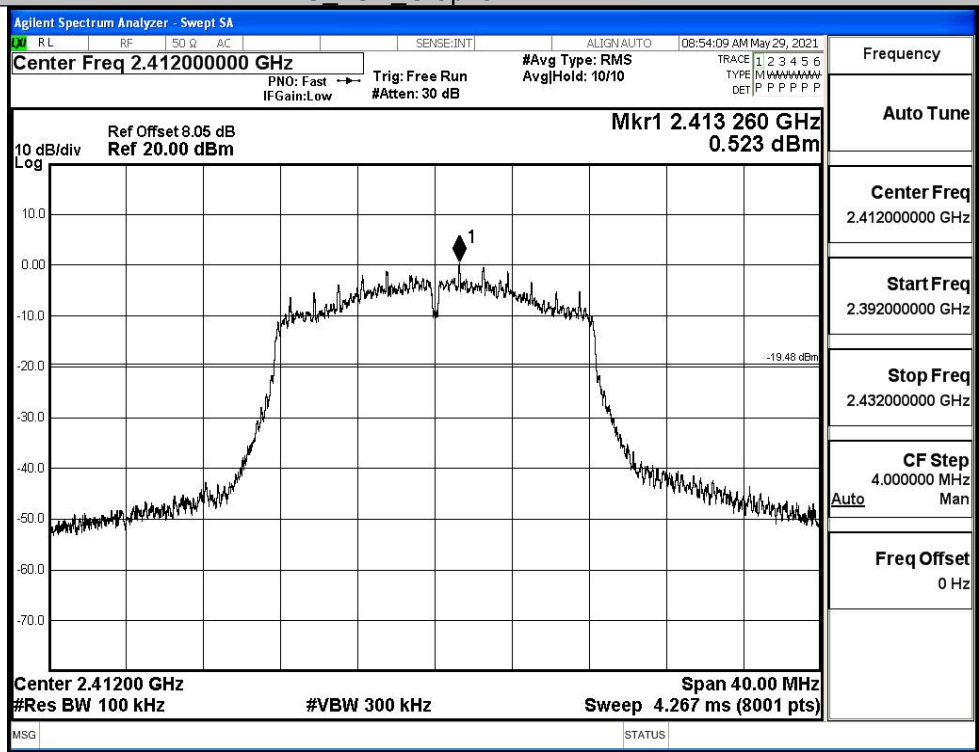
Puw/11B/MCH



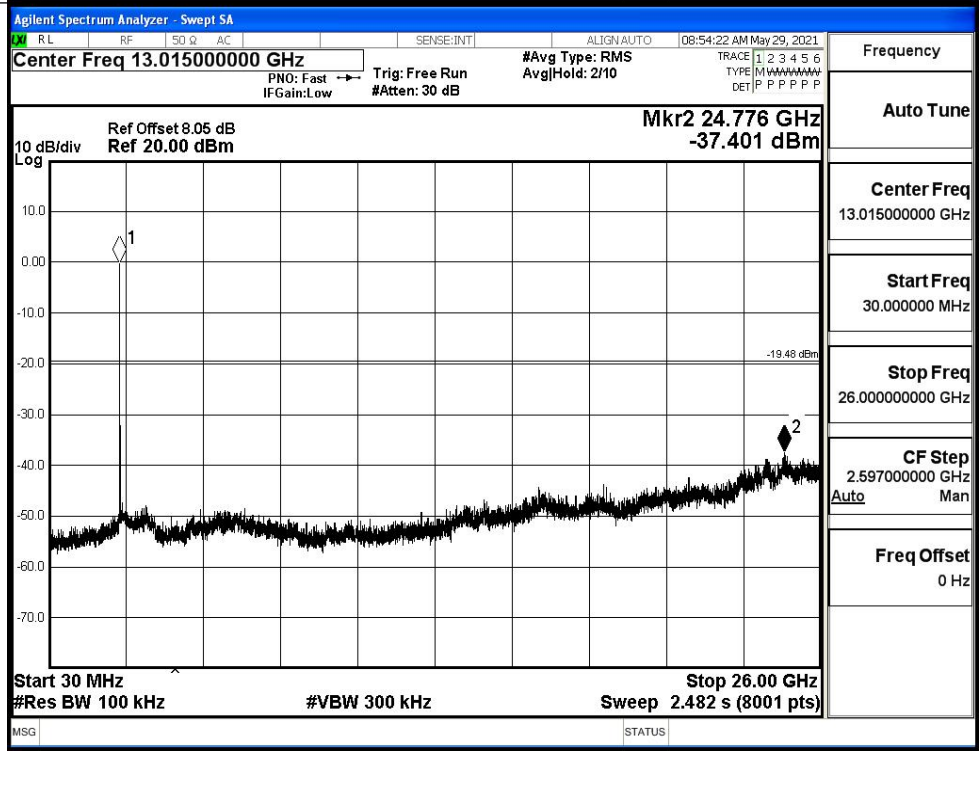


11G LCH Graphs

Pref/11G/LCH

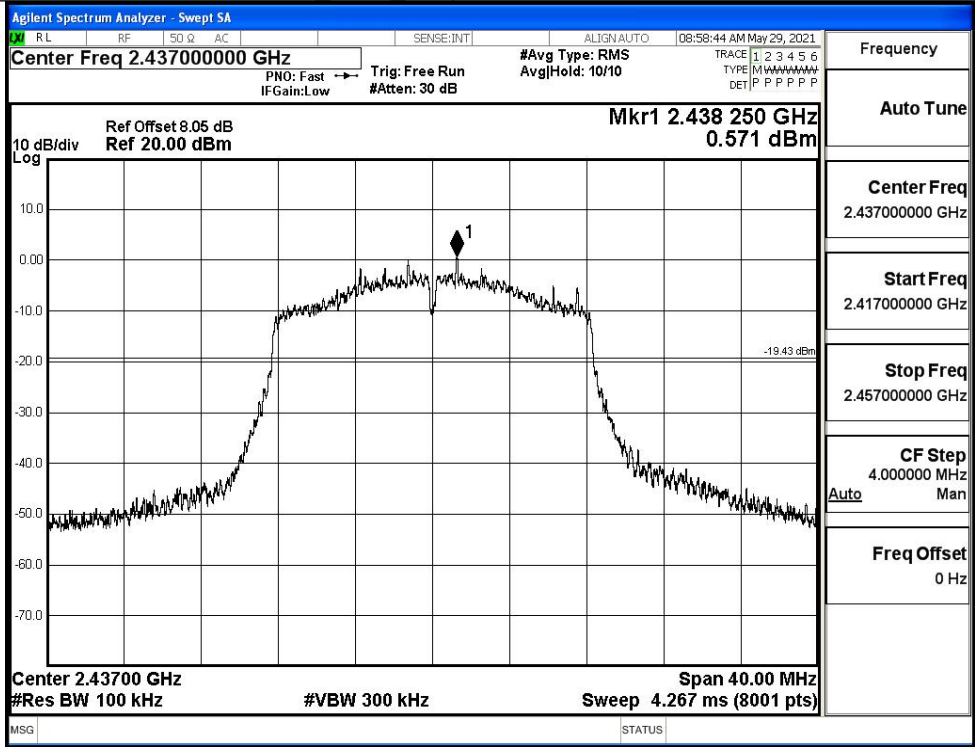


Puw/11G/LCH

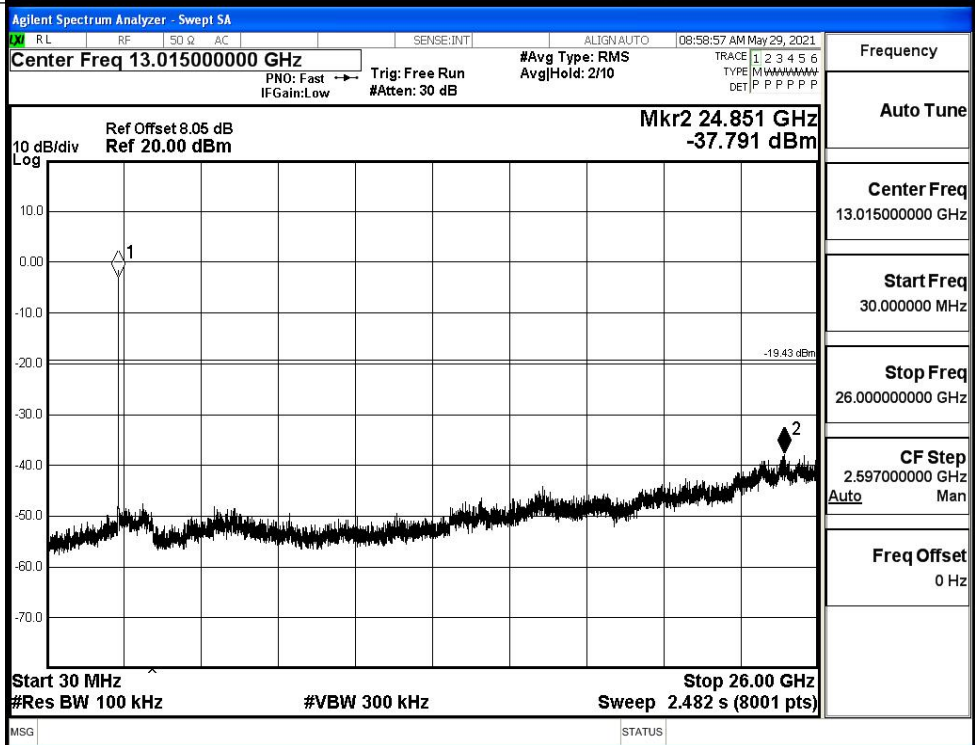


11G MCH Graphs

Pref/11G/MCH

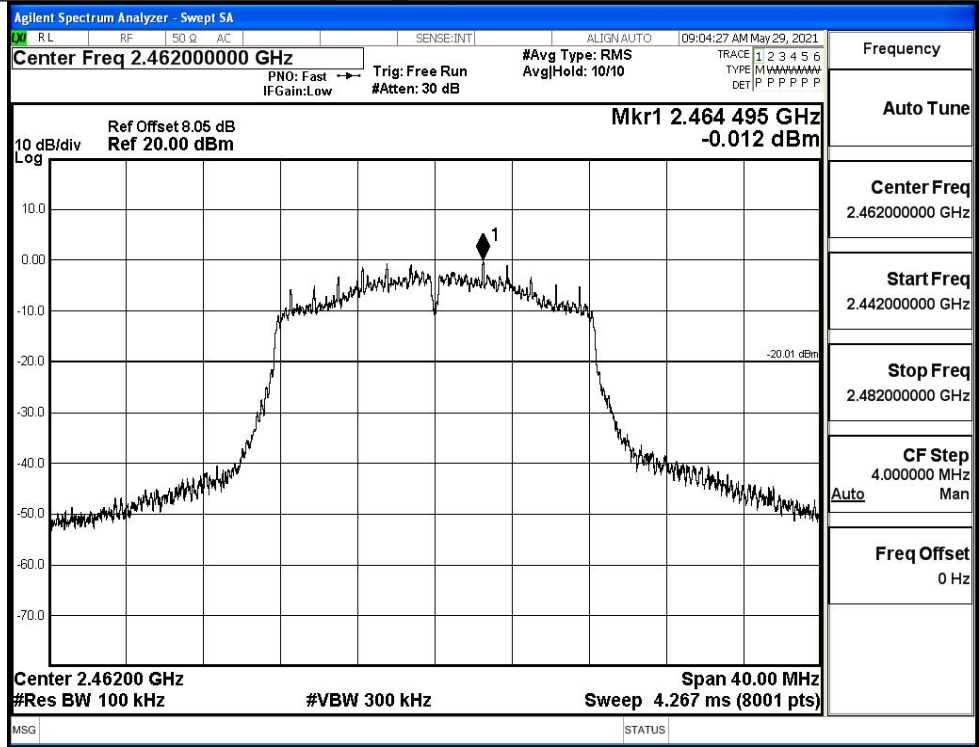


Puw/11G/MCH

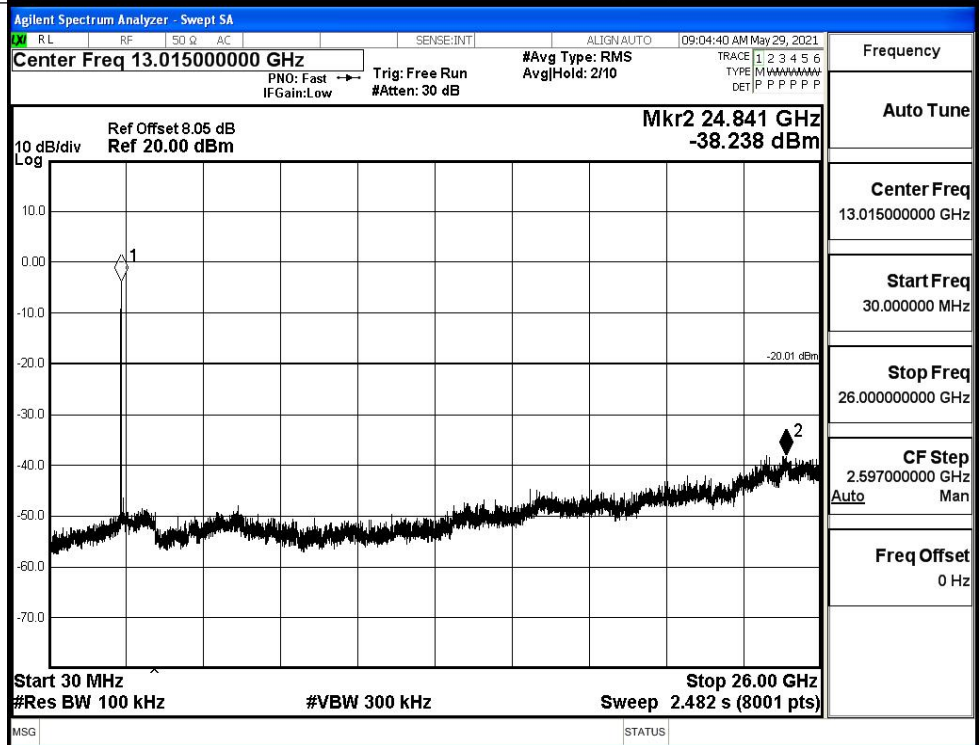


11G HCH Graphs

Pref/11G/HCH

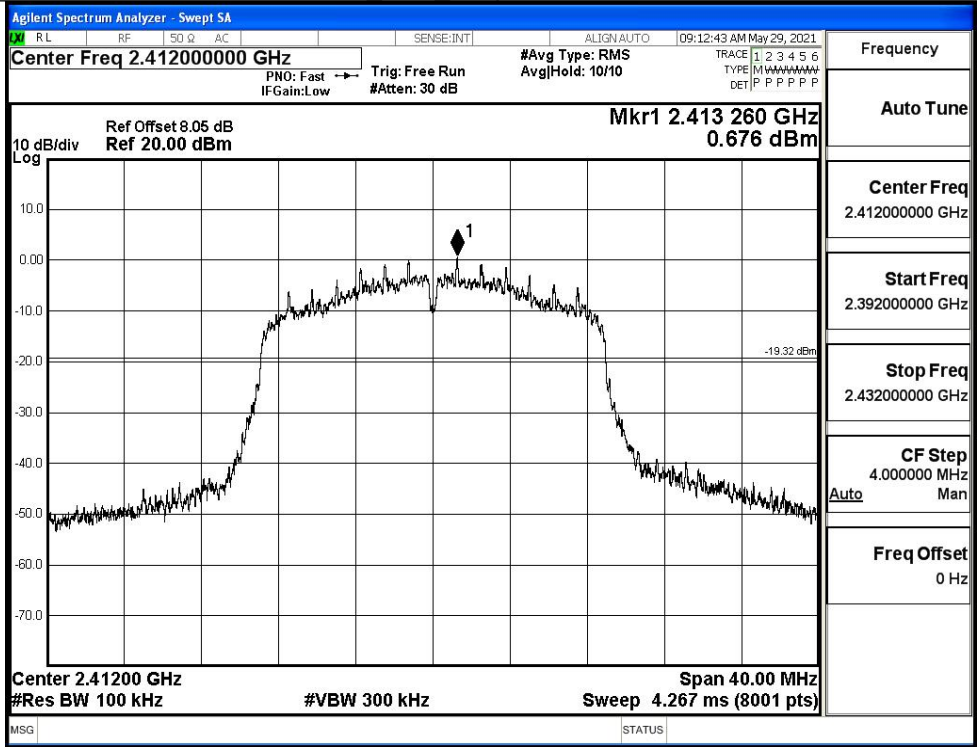


Puw/11G/HCH

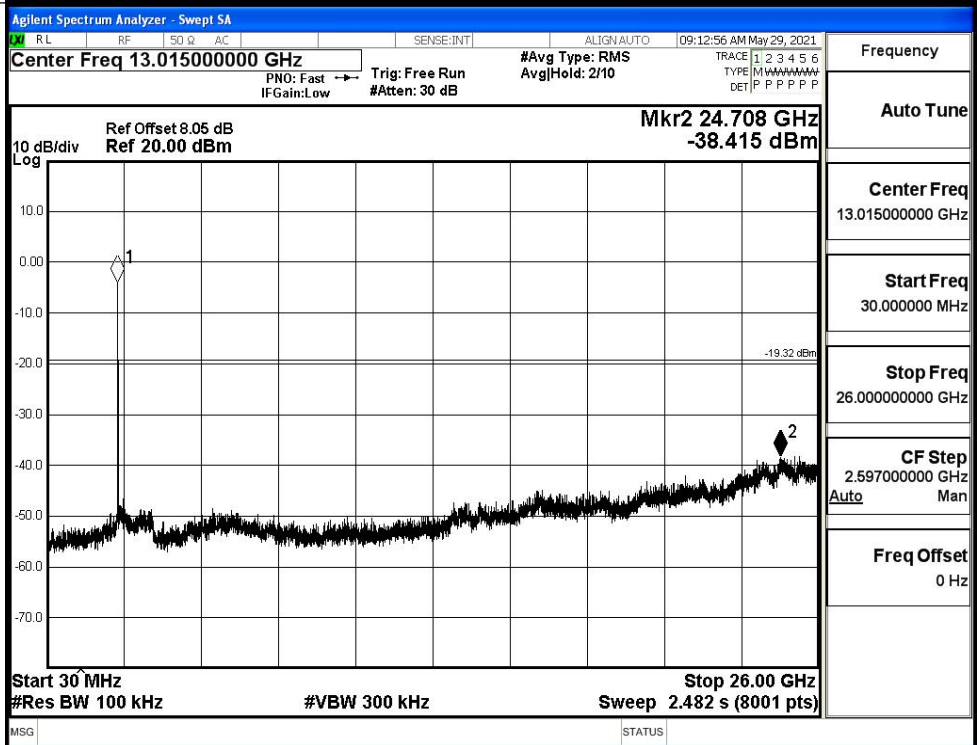


11N20SISO LCH Graphs

Pref/11N20SISO  
O/LCH

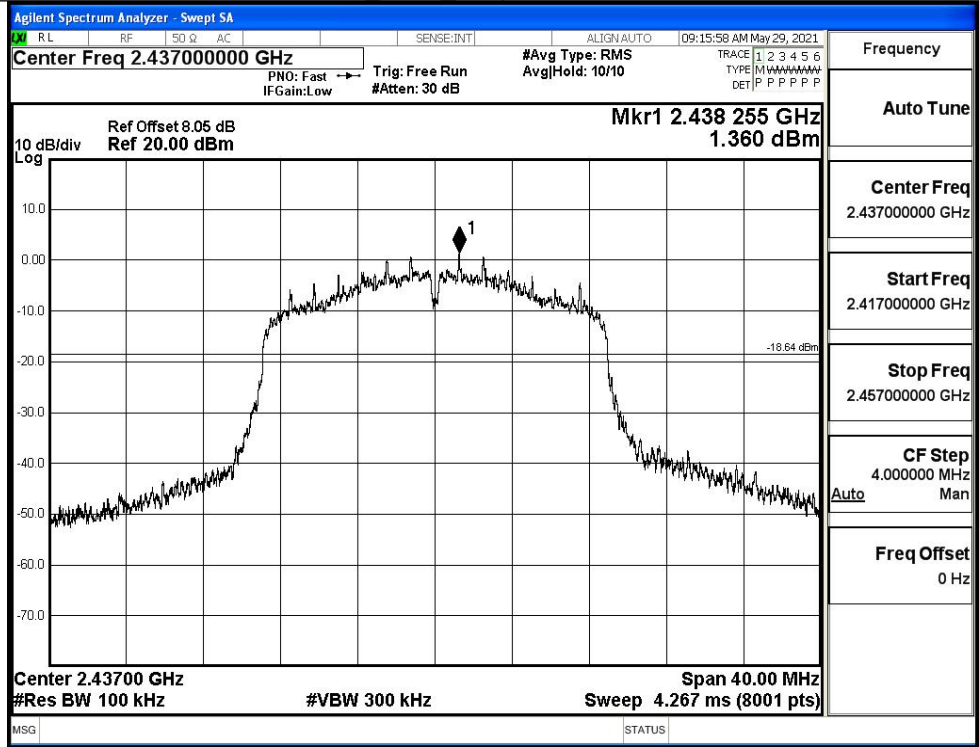


Puw/11N20  
SISO/LCH



11N20SISO MCH Graphs

Pref/11N20  
SISO/MCH



Puw/11N20  
SISO/MCH

