

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart TV Box

Trade Mark: N/A

Test Model: T95

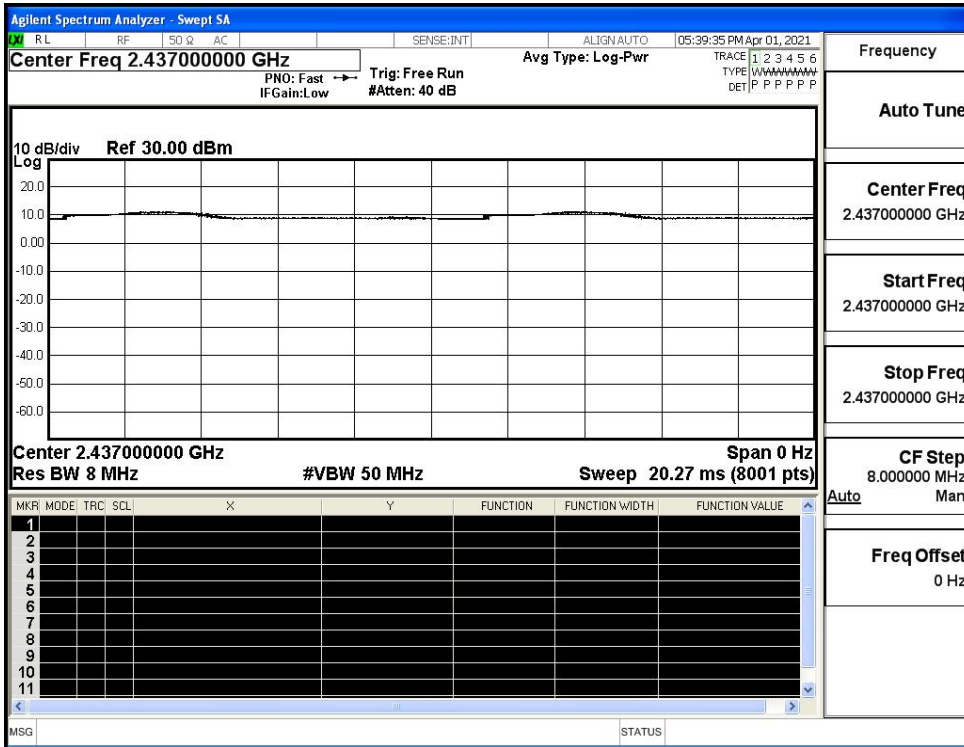
Environmental Conditions

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

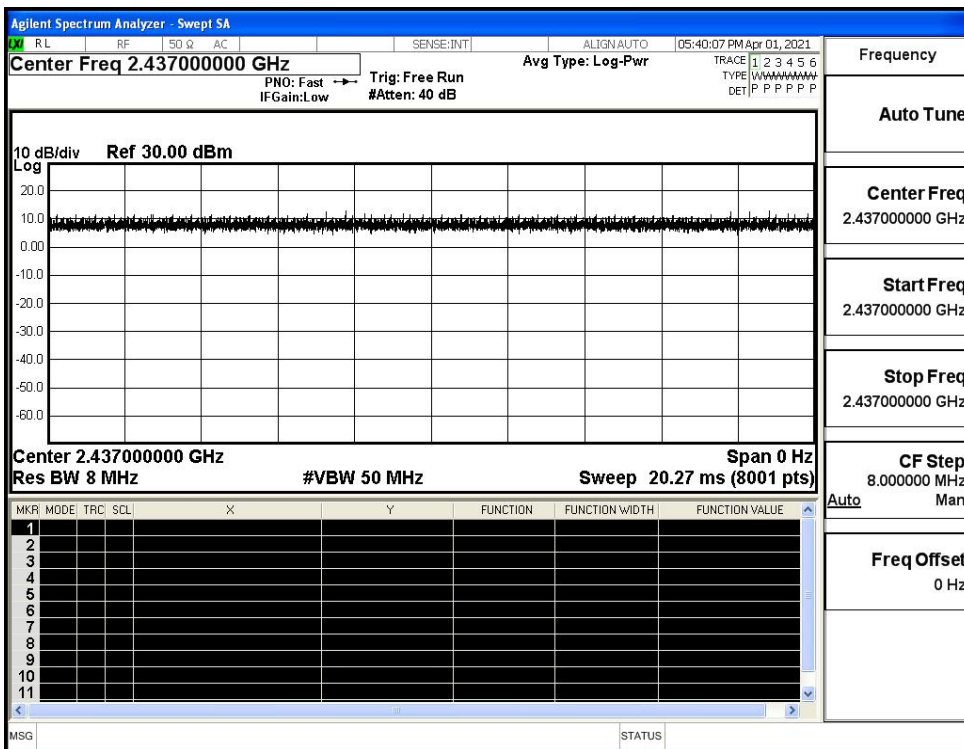
C.1 Duty Cycle

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

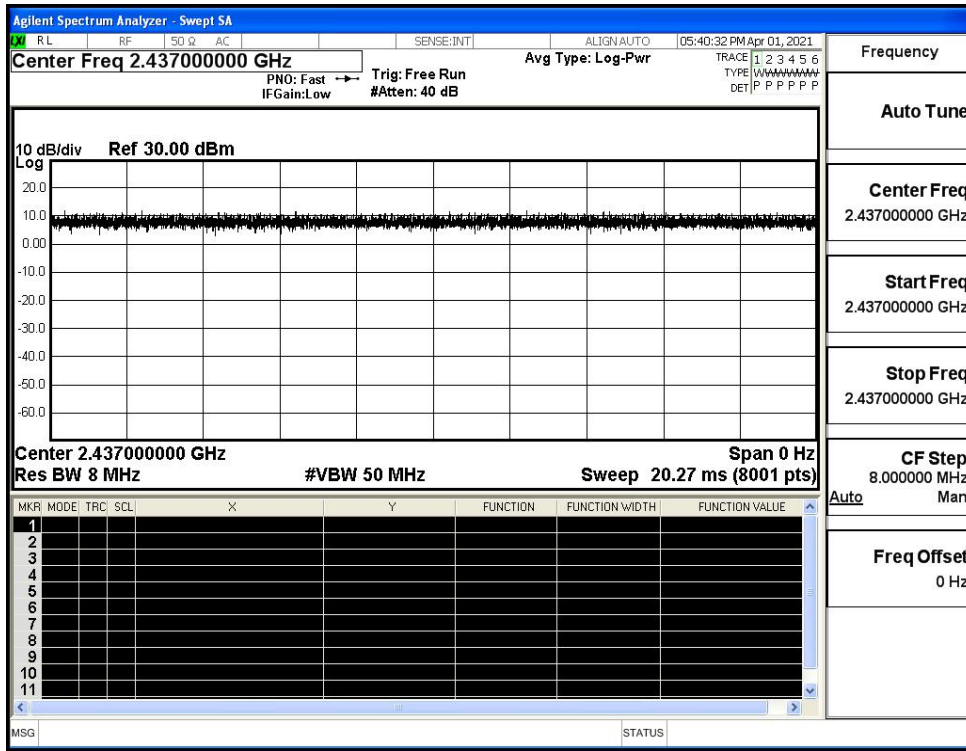
Duty Cycle_11B_2437_Ant1



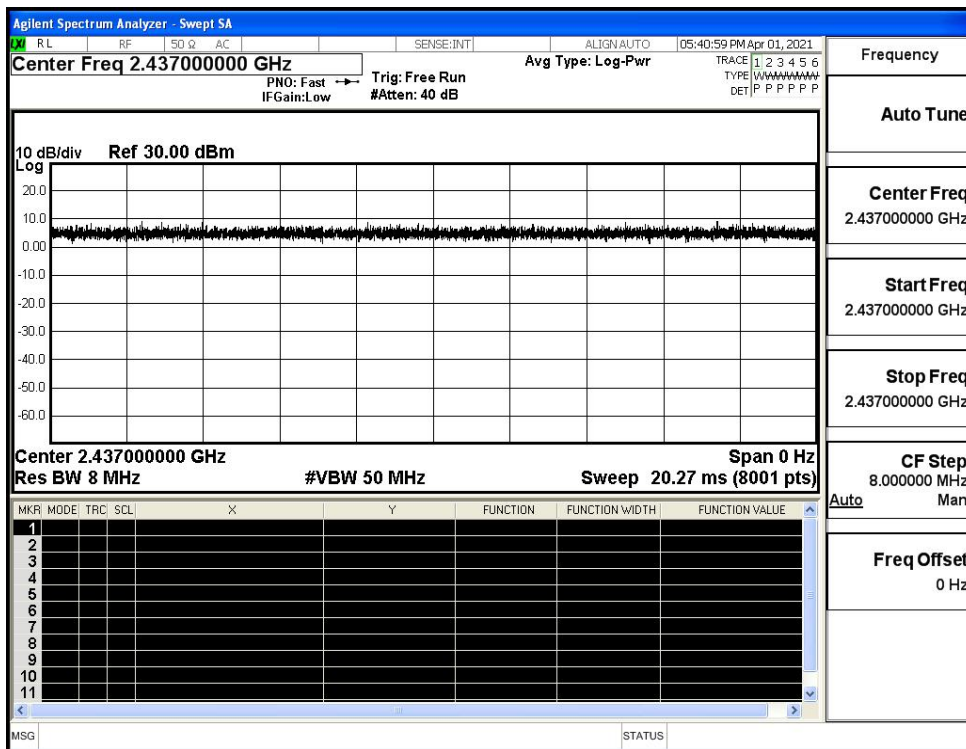
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



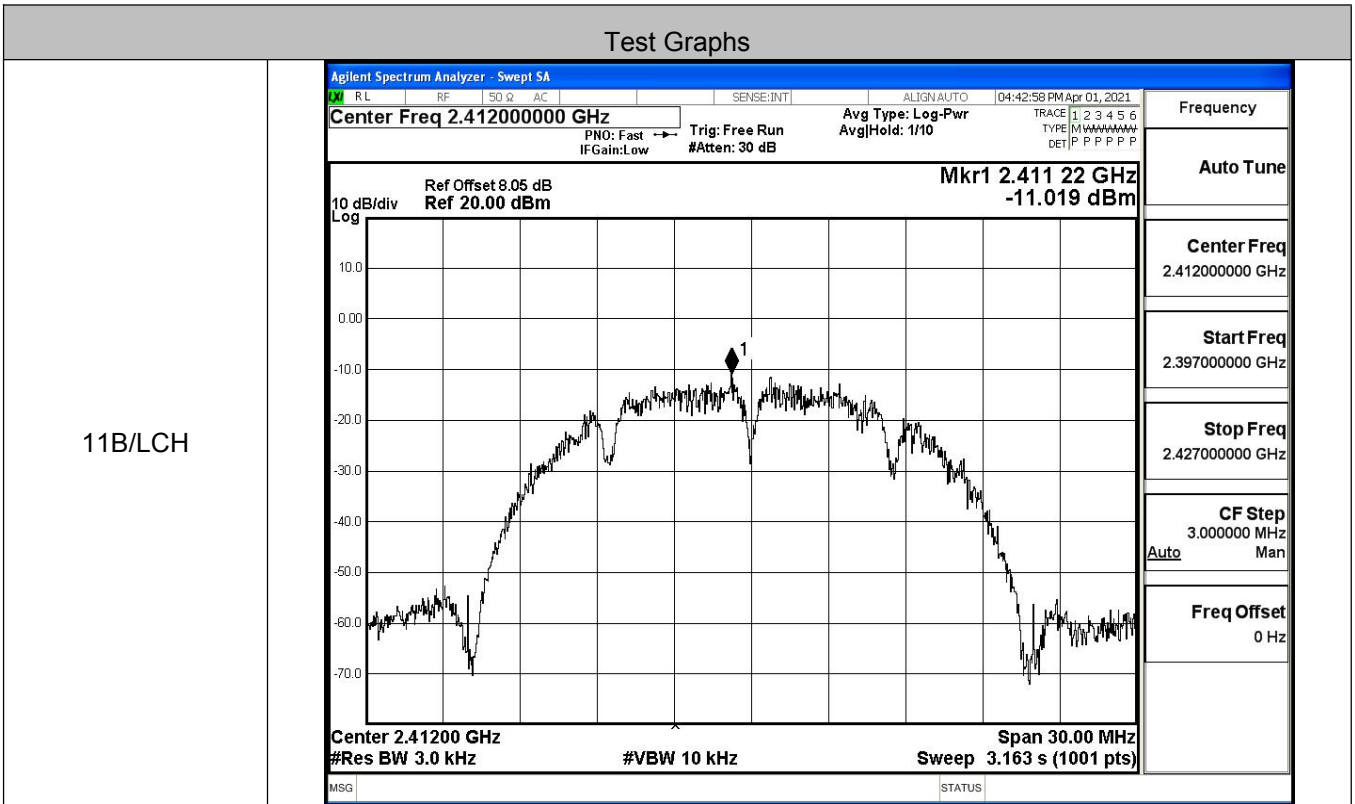
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.33	30	PASS
	MCH	16.8	30	PASS
	HCH	16.16	30	PASS
11G	LCH	15.17	30	PASS
	MCH	14.84	30	PASS
	HCH	14.33	30	PASS
11N20SISO	LCH	15.54	30	PASS
	MCH	15.83	30	PASS
	HCH	14.76	30	PASS
11N40SISO	LCH	15.17	30	PASS
	MCH	15.95	30	PASS
	HCH	15.63	30	PASS

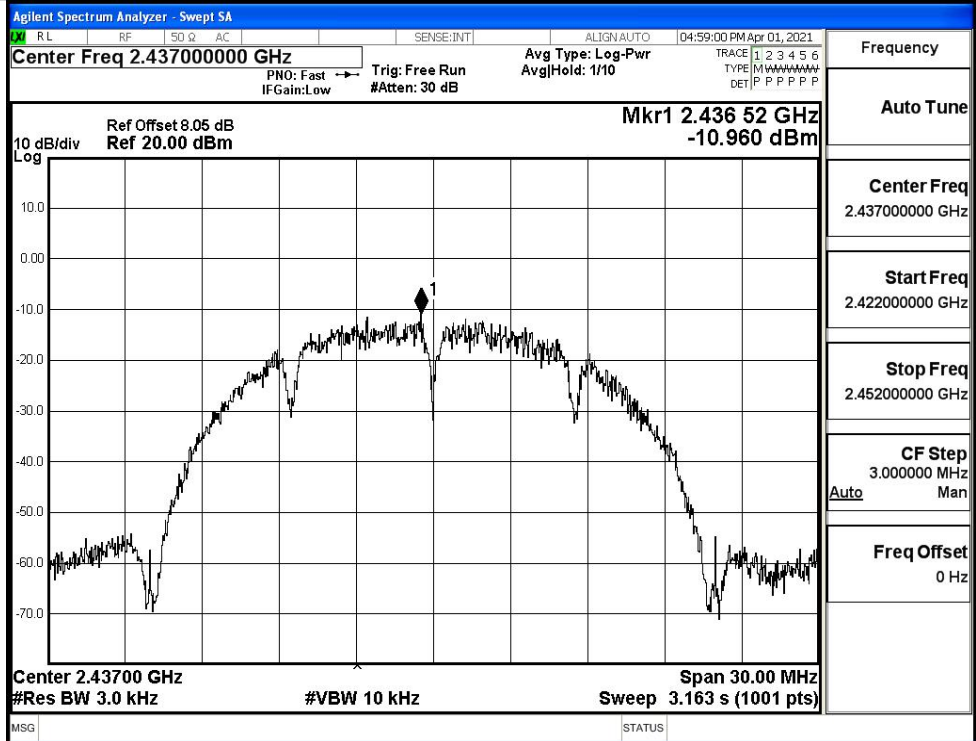
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-11.019	8	PASS
	MCH	-10.960	8	PASS
	HCH	-12.291	8	PASS
11G	LCH	-19.635	8	PASS
	MCH	-18.910	8	PASS
	HCH	-20.512	8	PASS
11N20SISO	LCH	-18.113	8	PASS
	MCH	-17.658	8	PASS
	HCH	-18.830	8	PASS
11N40SISO	LCH	-21.149	8	PASS
	MCH	-20.888	8	PASS
	HCH	-20.847	8	PASS

Test Graphs

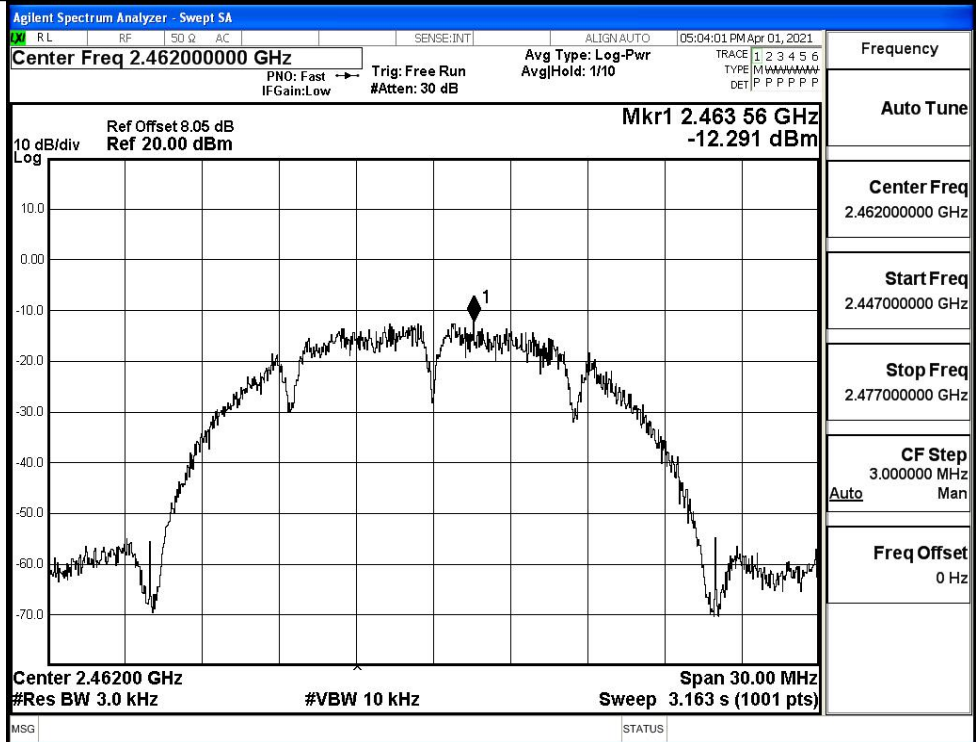


11B/MCH



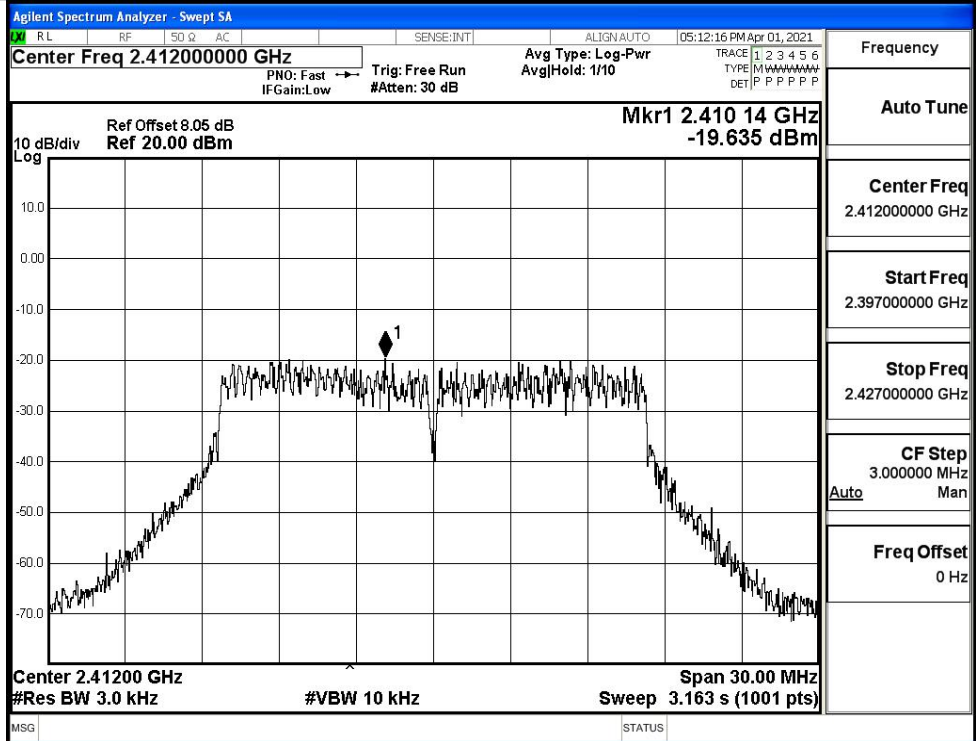
Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.42200000 GHz
Stop Freq 2.45200000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11B/HCH

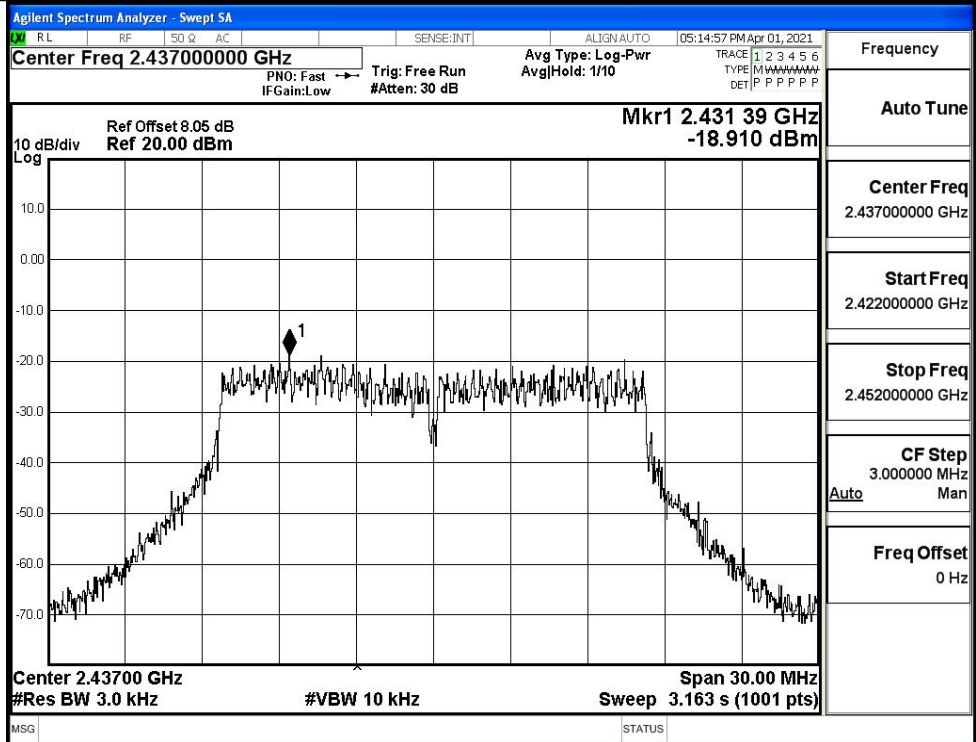


Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.44700000 GHz
Stop Freq 2.47700000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

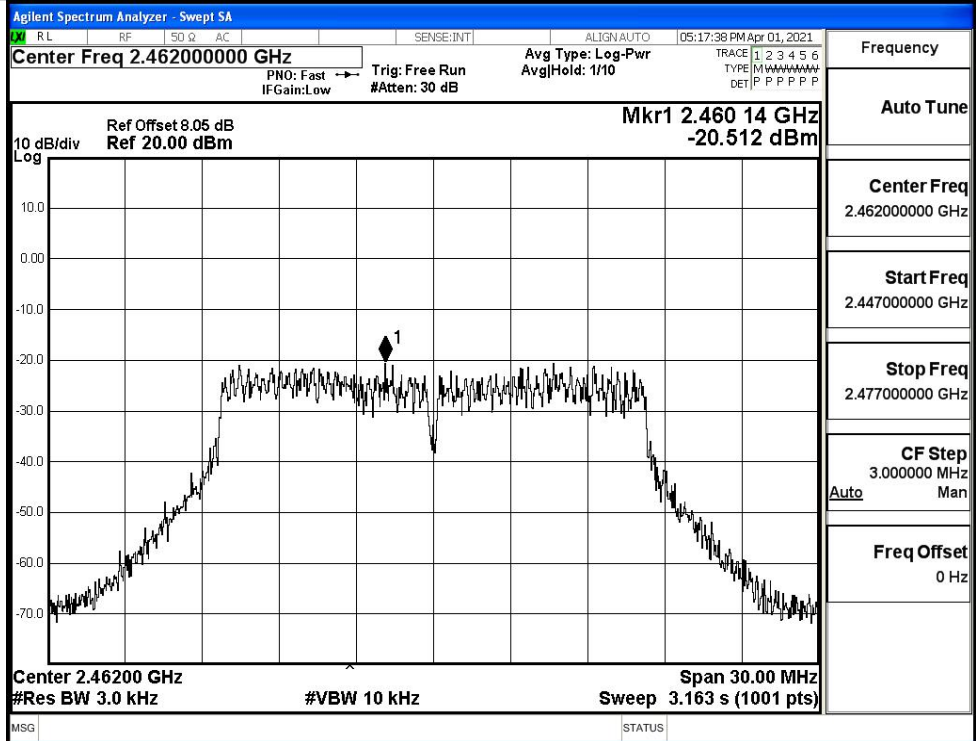
11G/LCH



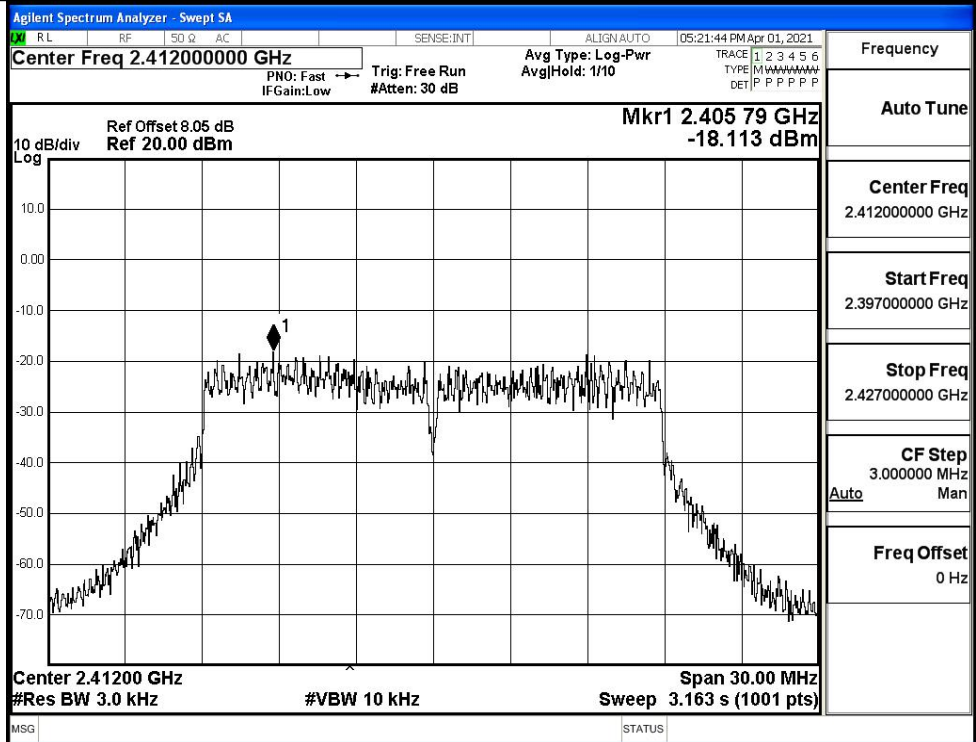
11G/MCH



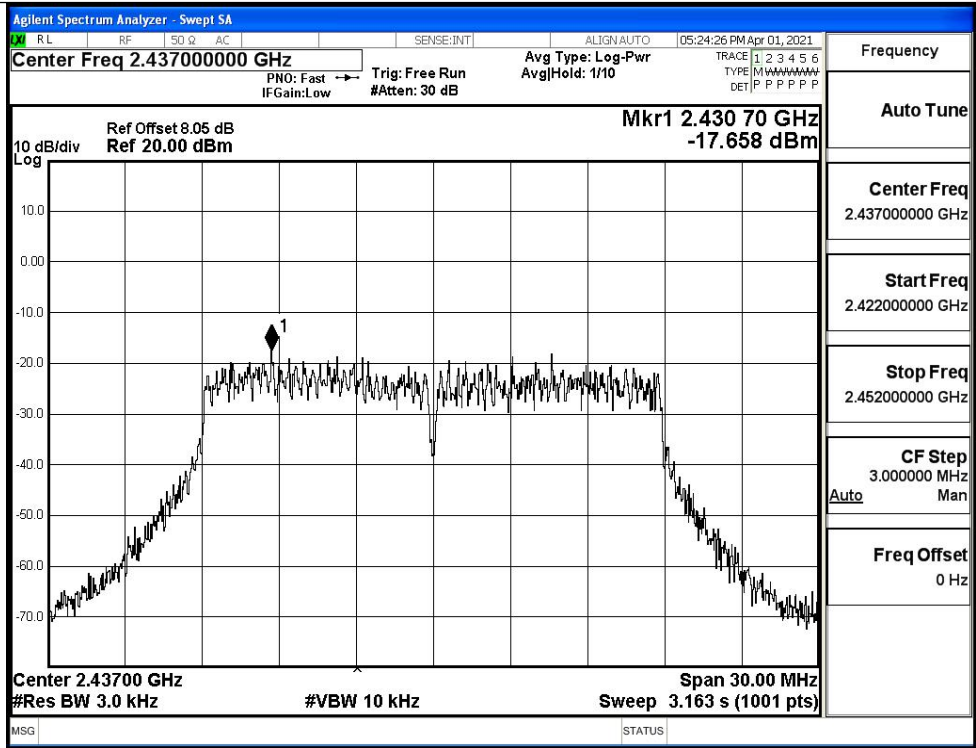
11G/HCH



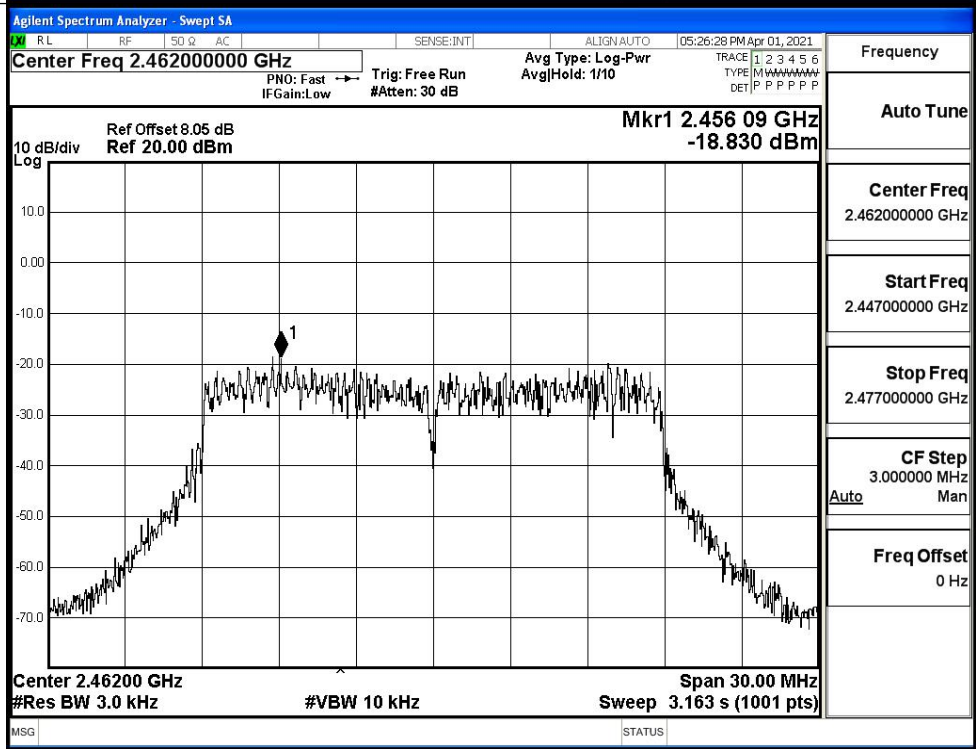
11N20SISO/LCH



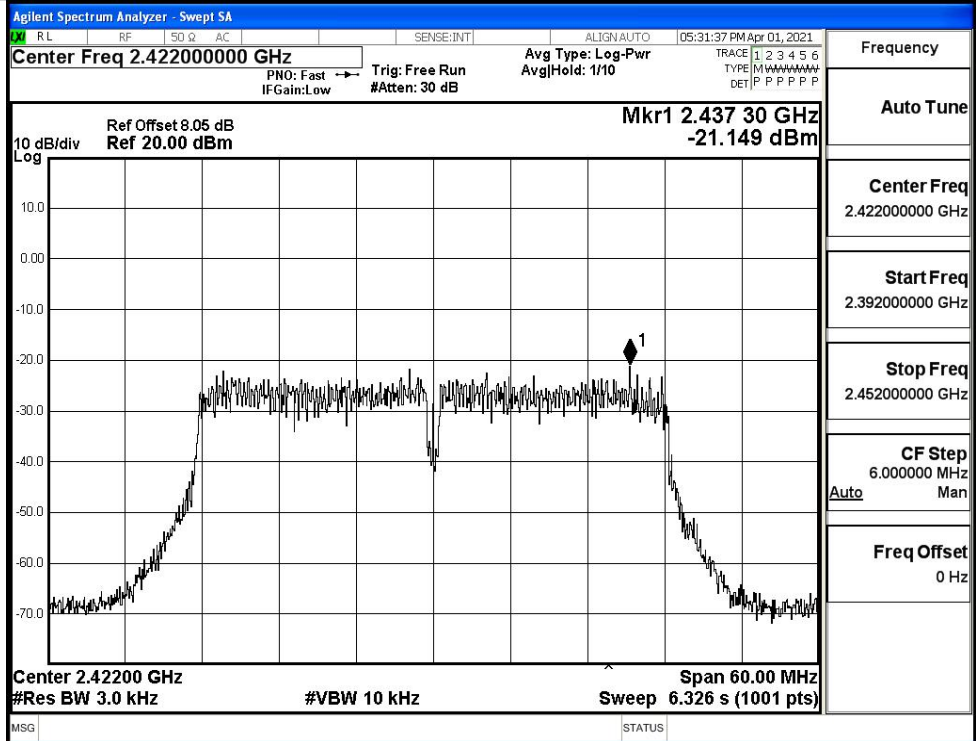
11N20SISO/MCH



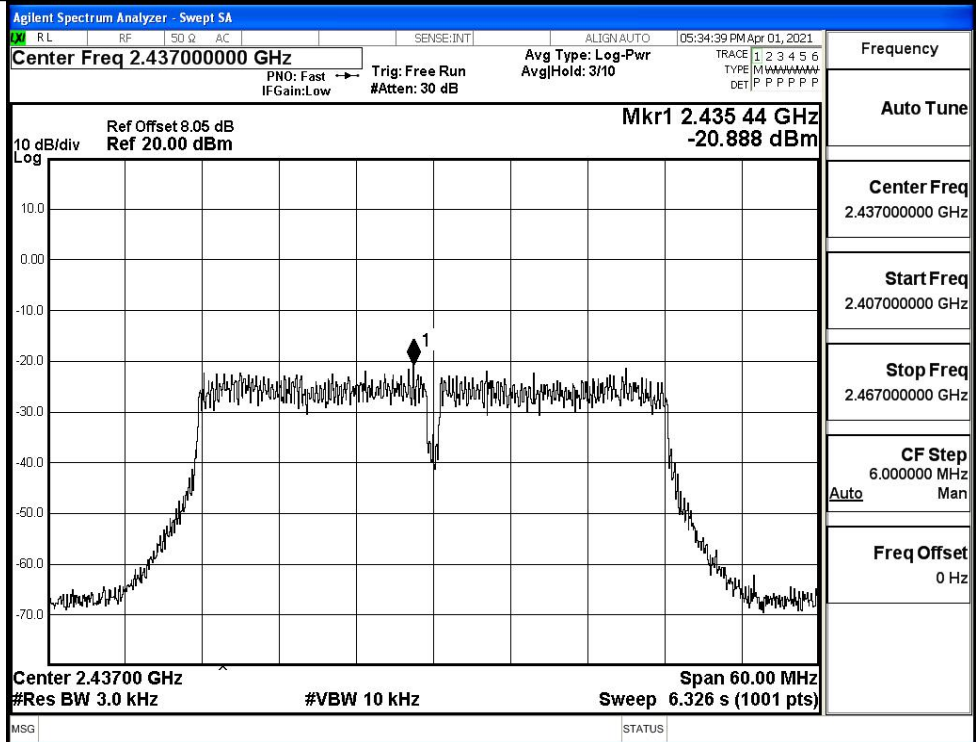
11N20SISO/HCH



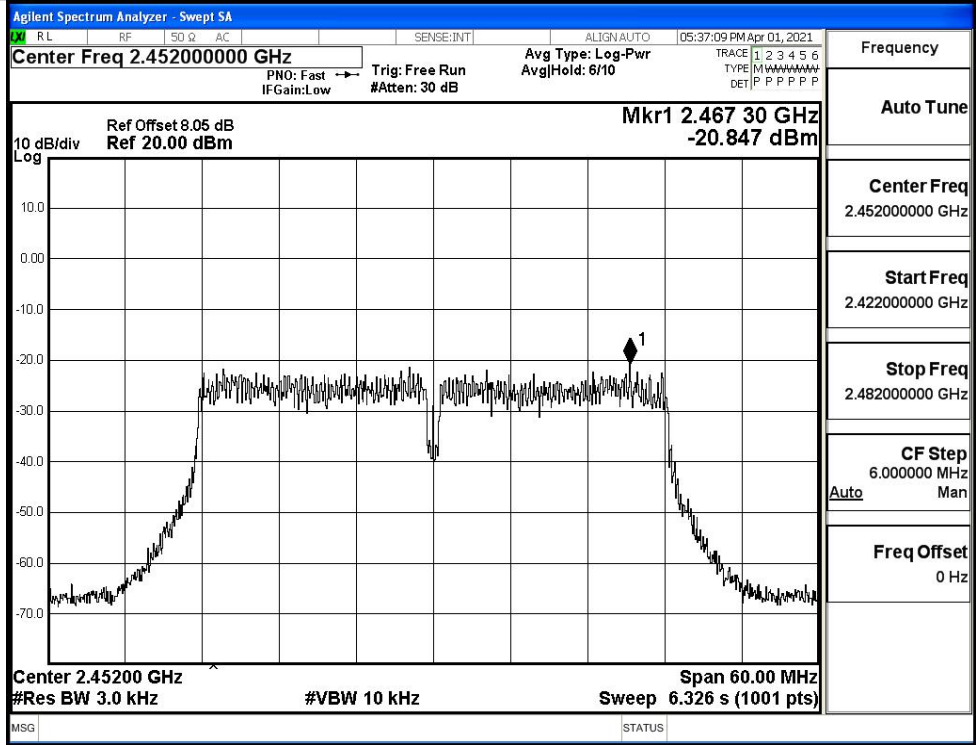
11N40SISO/LCH



11N40SISO/MCH

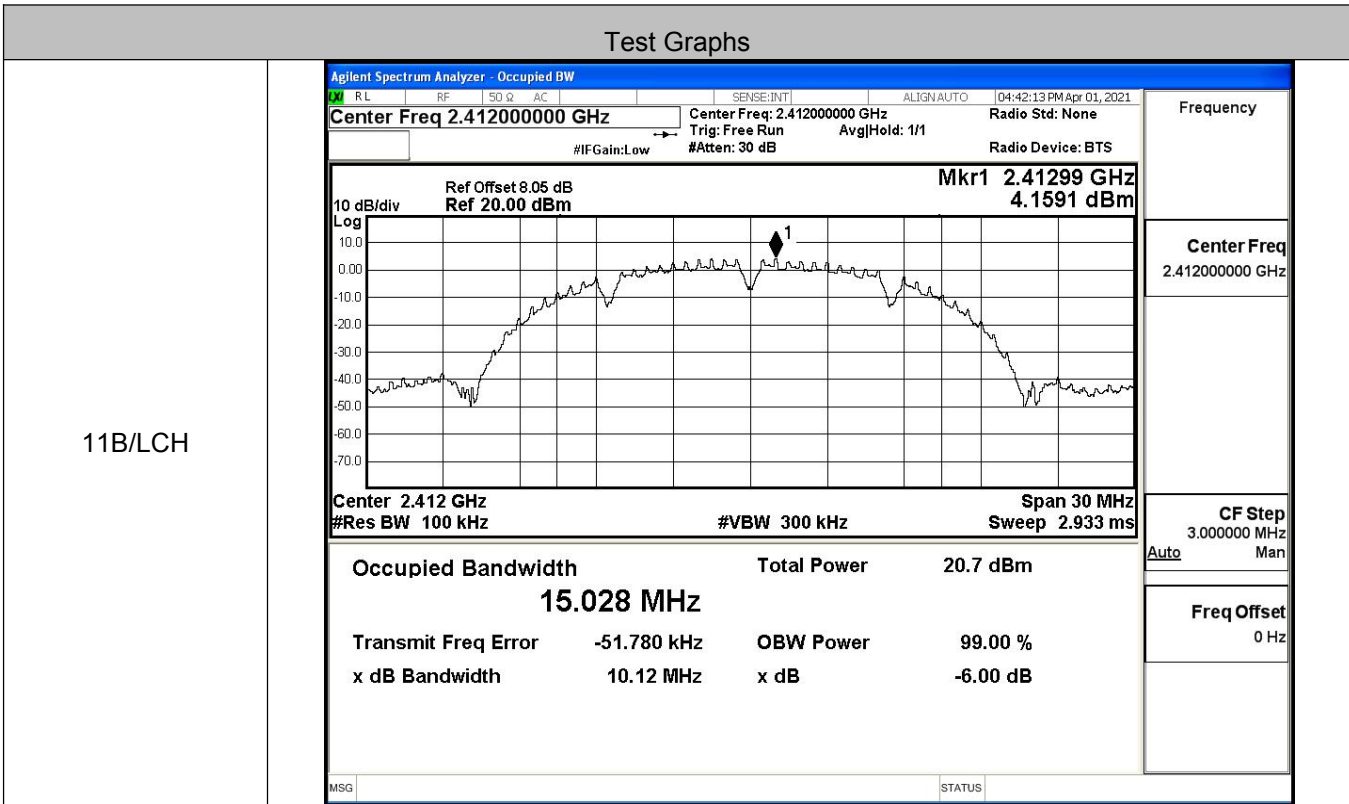


11N40SISO/HCH

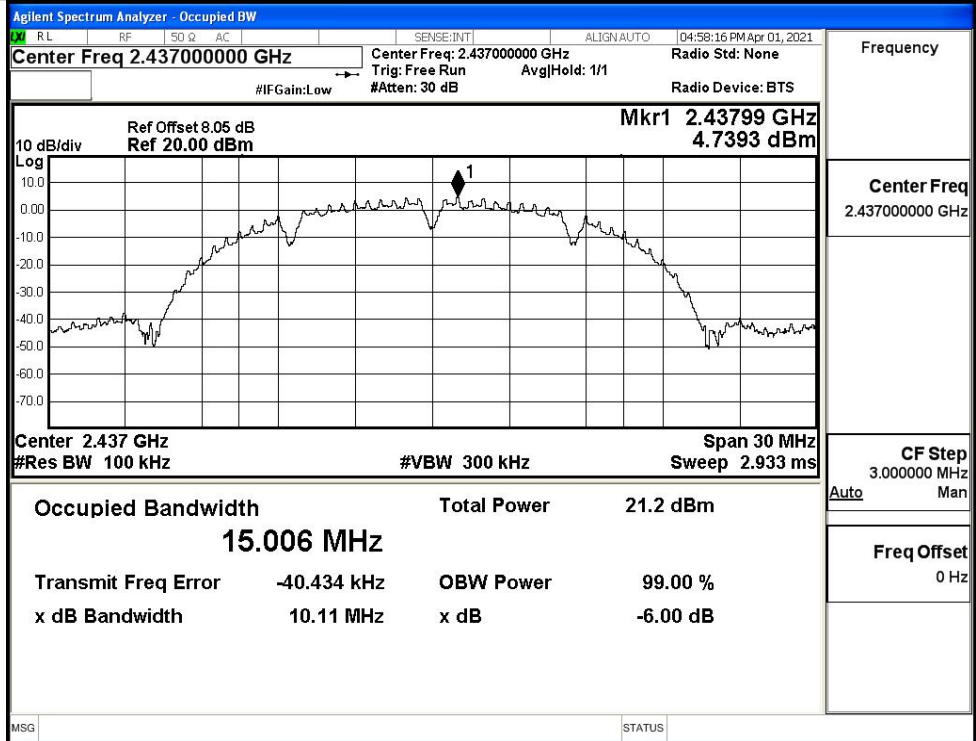


C.4 6dB Bandwidth

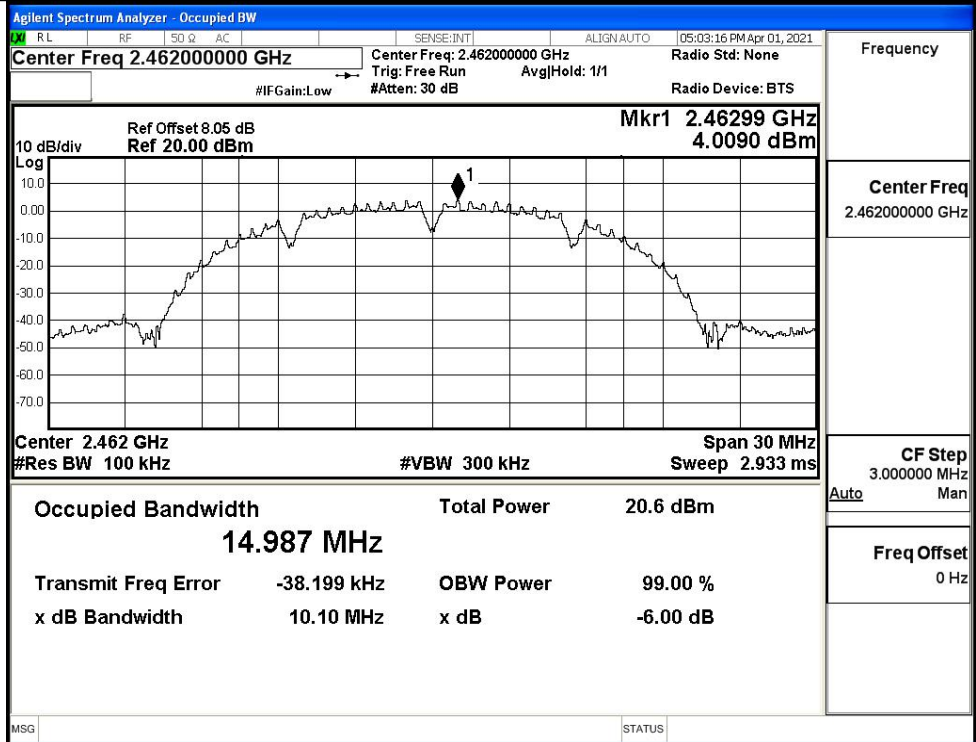
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.12	≥0.5	PASS
	MCH	10.11	≥0.5	PASS
	HCH	10.10	≥0.5	PASS
11G	LCH	16.35	≥0.5	PASS
	MCH	16.37	≥0.5	PASS
	HCH	16.32	≥0.5	PASS
11N20SISO	LCH	16.90	≥0.5	PASS
	MCH	16.99	≥0.5	PASS
	HCH	17.11	≥0.5	PASS
11N40SISO	LCH	35.72	≥0.5	PASS
	MCH	35.68	≥0.5	PASS
	HCH	35.75	≥0.5	PASS



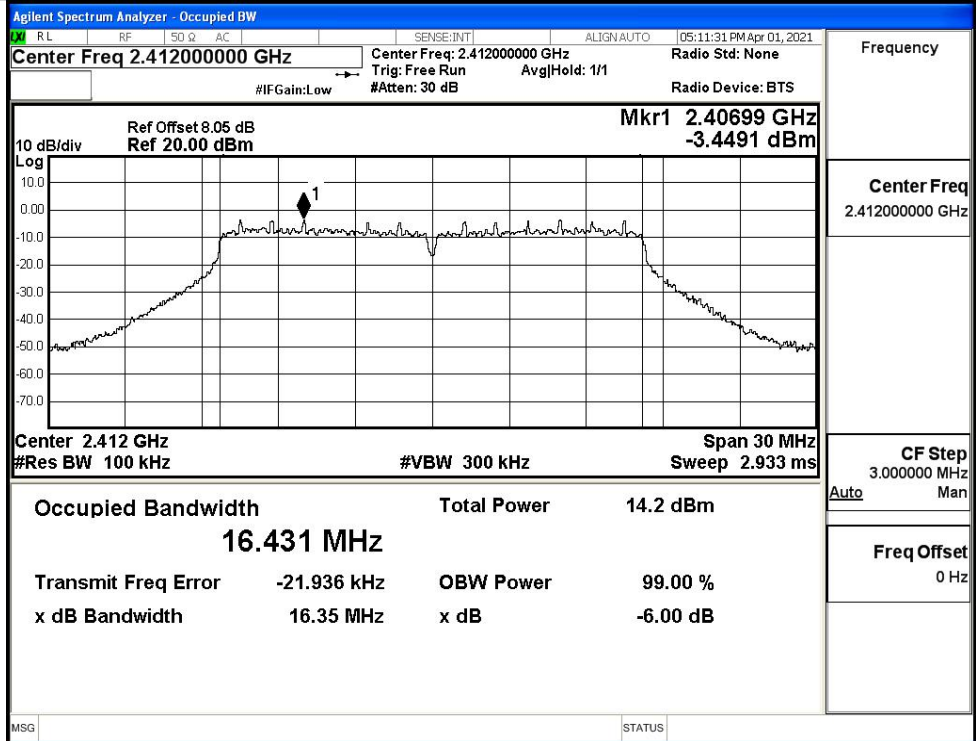
11B/MCH



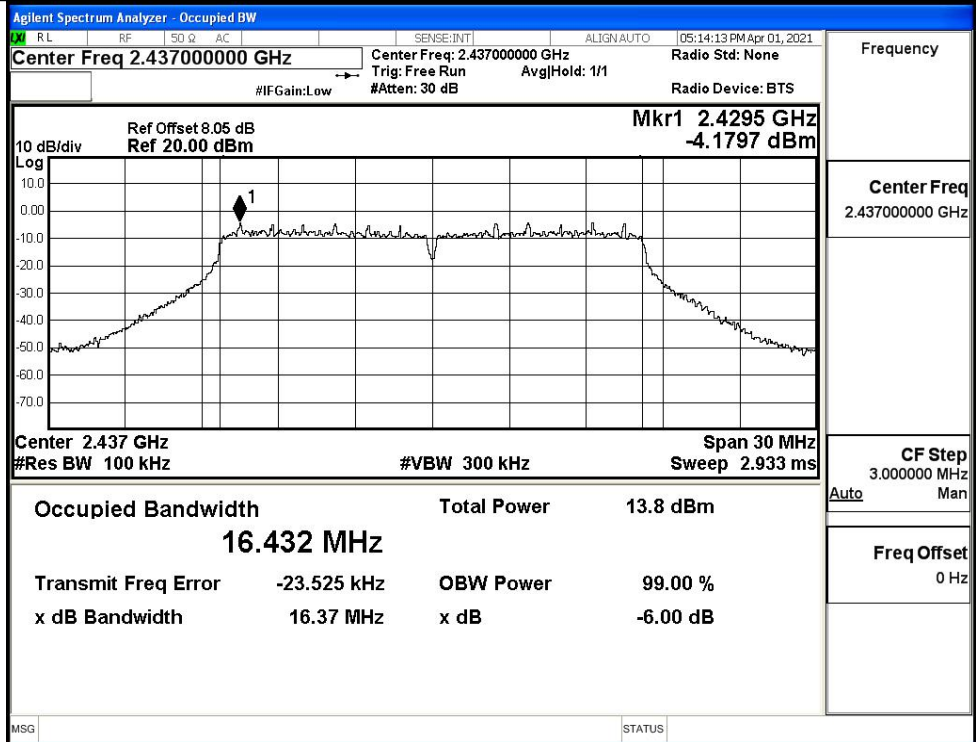
11B/HCH



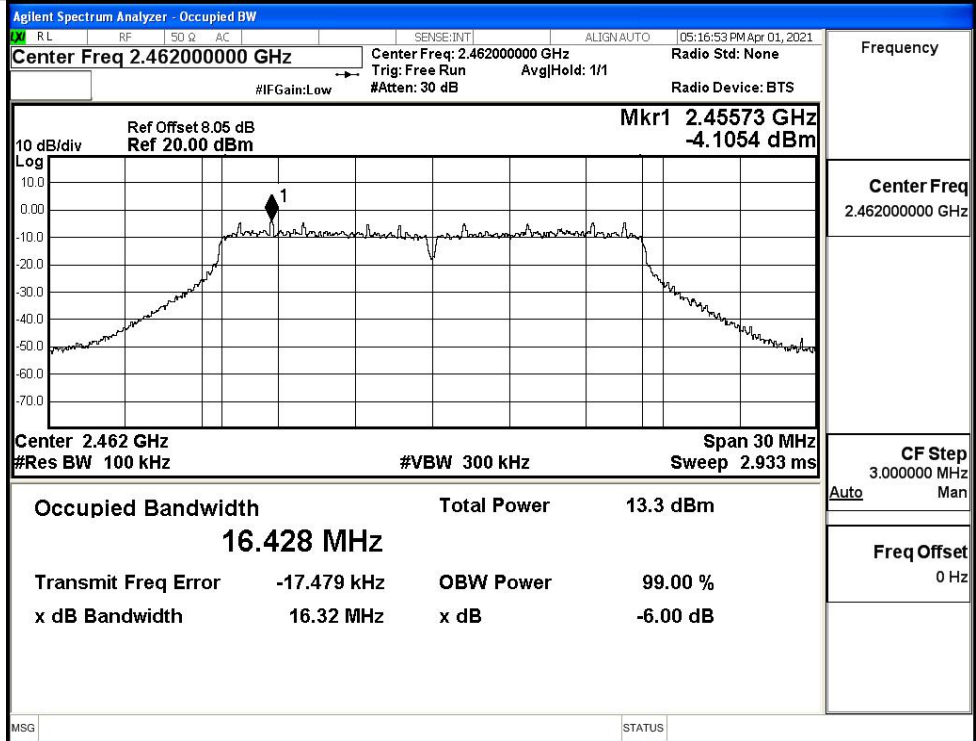
11G/LCH



11G/MCH

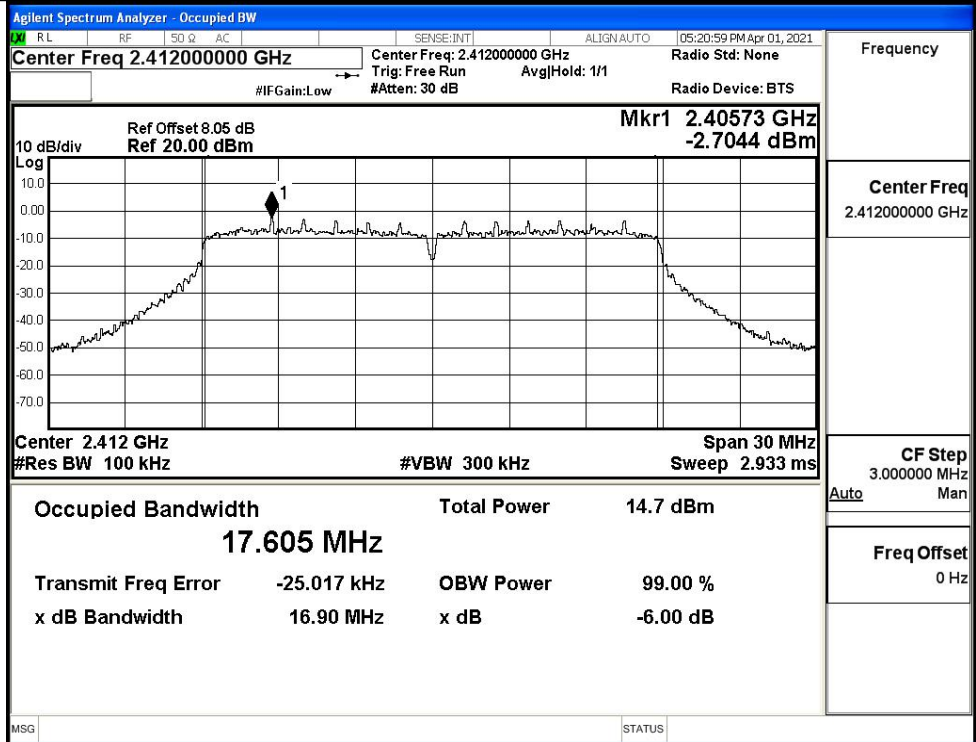


11G/HCH



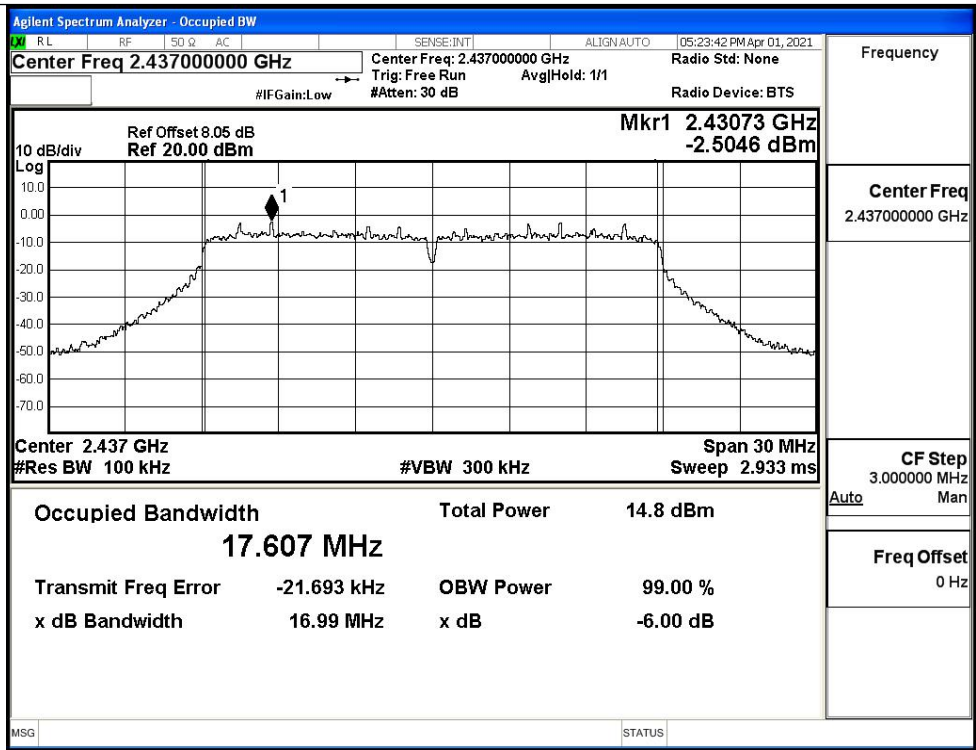
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

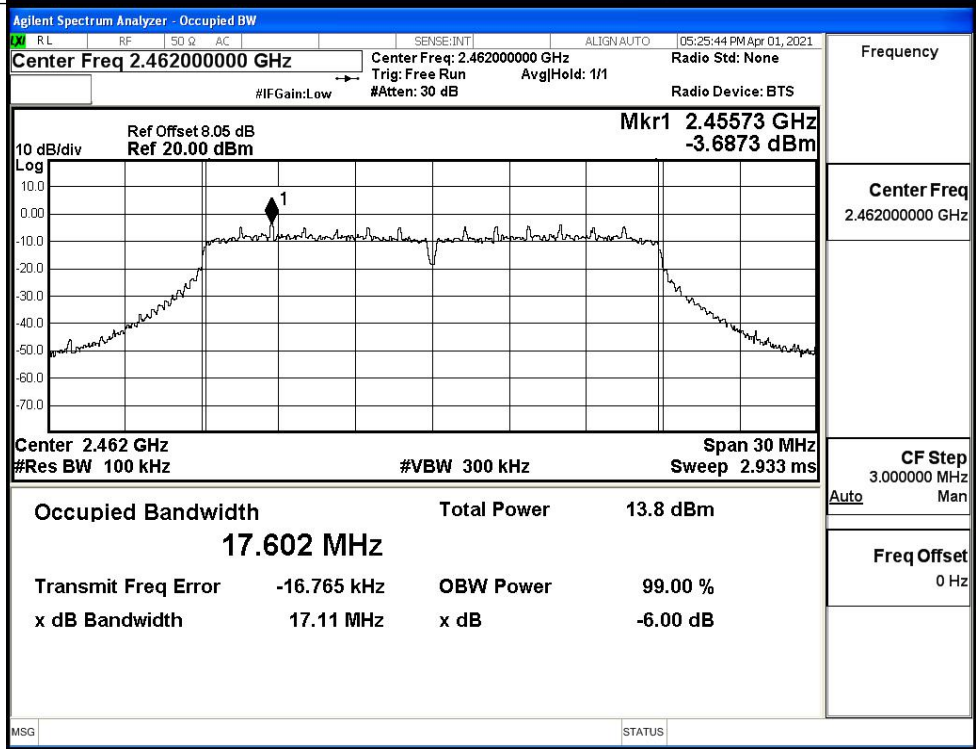


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

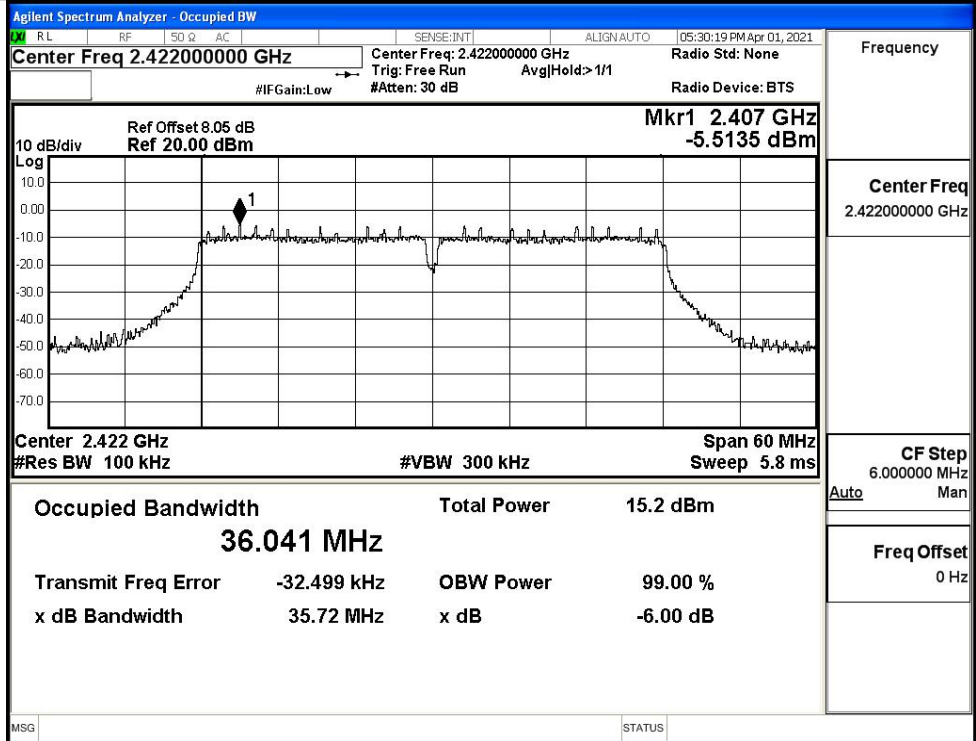
11N20SISO/MCH



11N20SISO/HCH

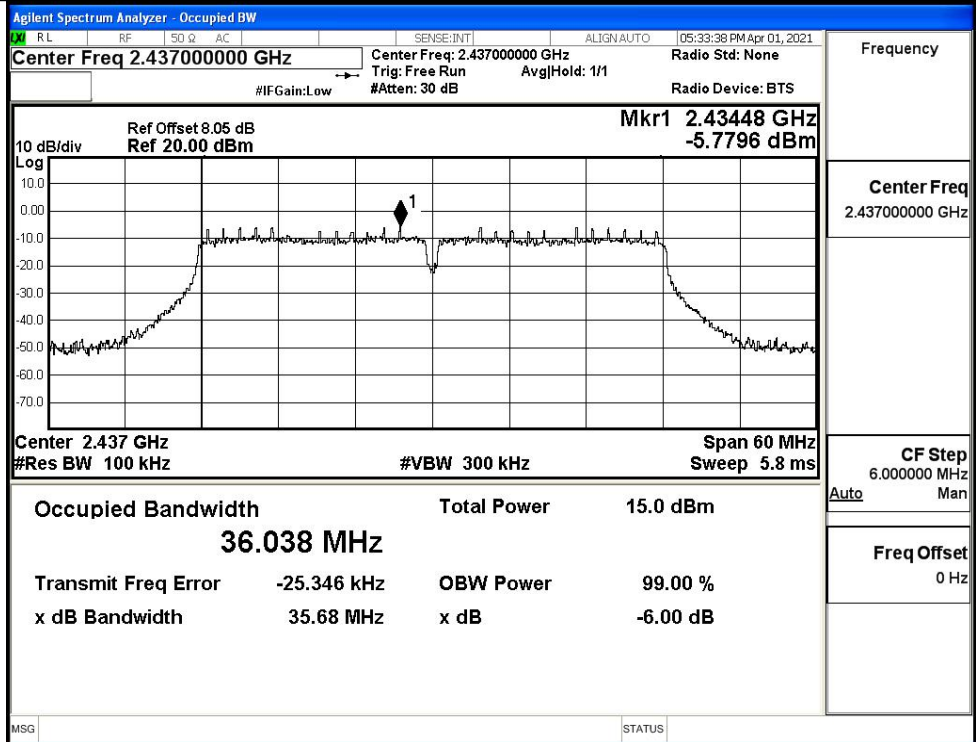


11N40SISO/LCH



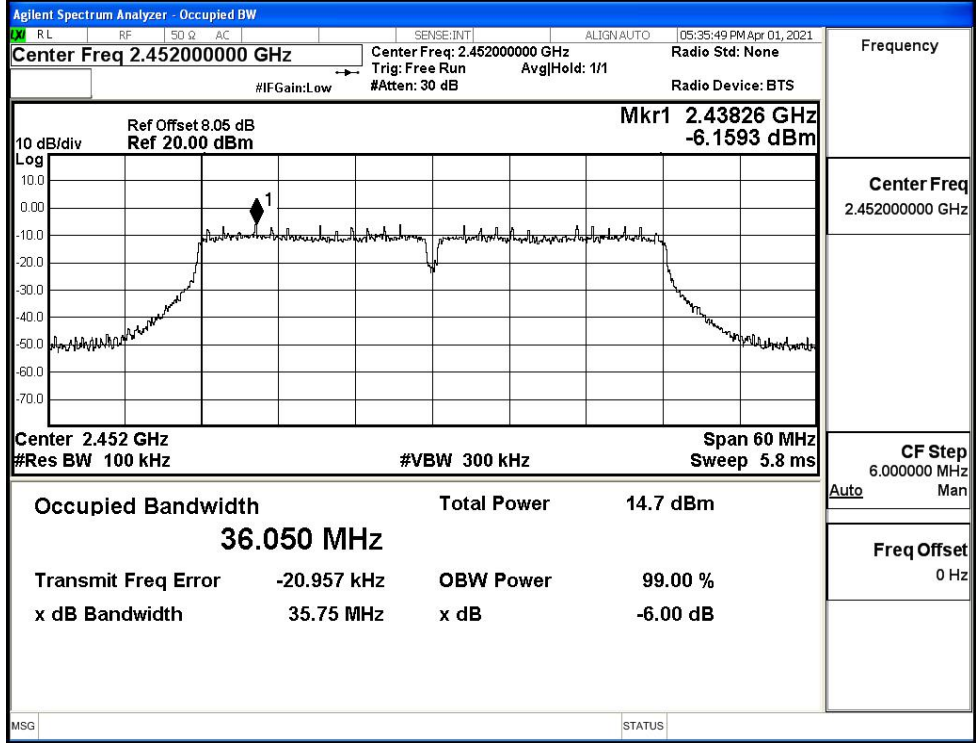
Frequency	2.42200000 GHz
Center Freq	2.42200000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N40SISO/MCH



Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

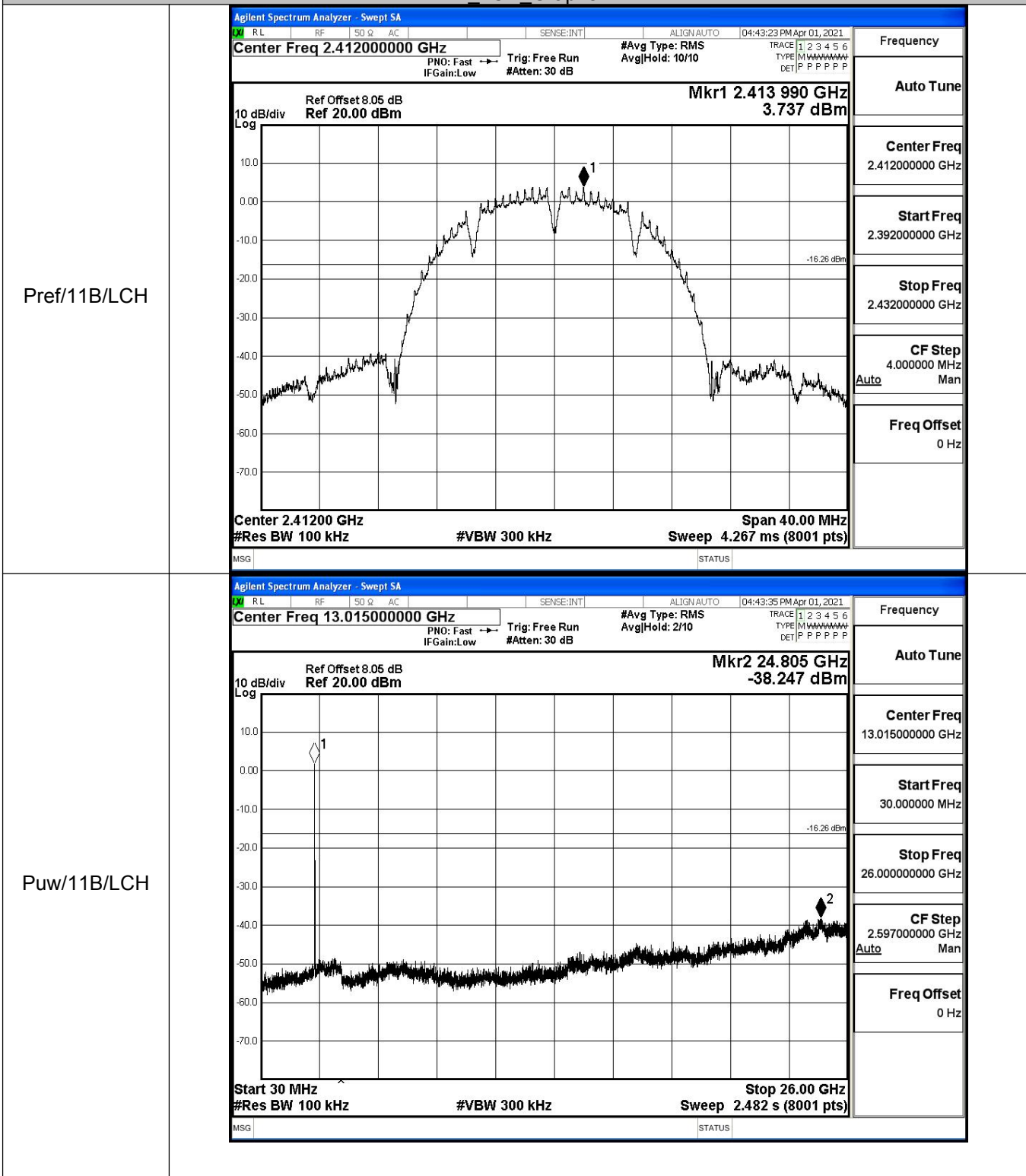
11N40SISO/HCH



C.5 RF Conducted Spurious Emissions

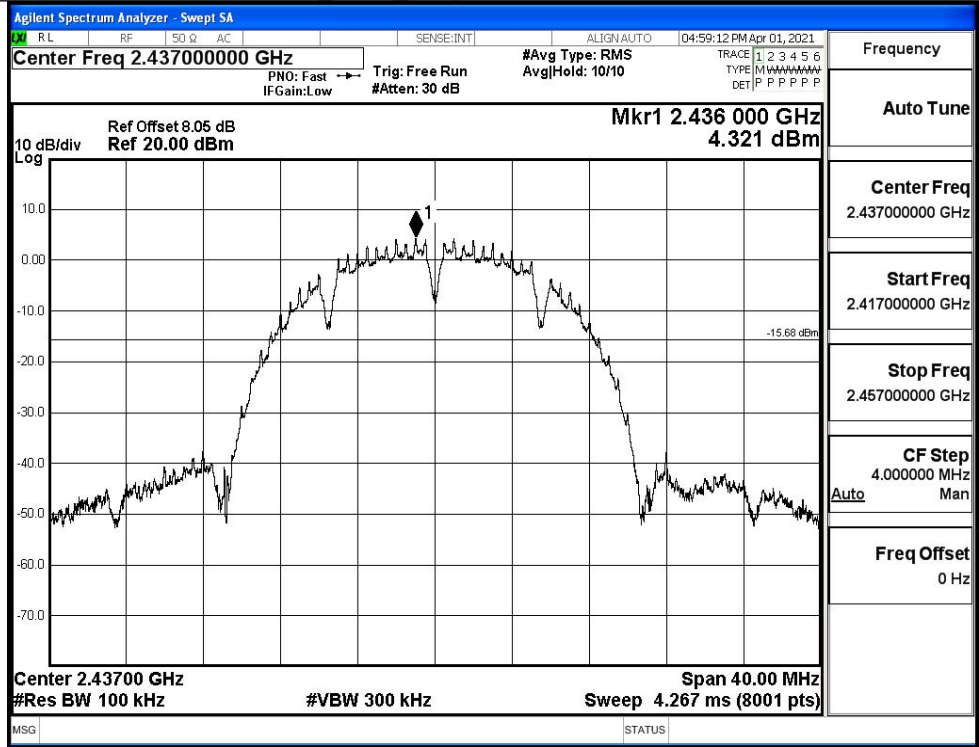
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.737	-38.247	-16.263	PASS
	MCH	4.321	-37.647	-15.679	PASS
	HCH	3.609	-36.656	-16.391	PASS
11G	LCH	-3.36	-38.468	-23.360	PASS
	MCH	-4.139	-37.958	-24.139	PASS
	HCH	-4.578	-36.988	-24.578	PASS
11N20 SISO	LCH	-3.127	-37.736	-23.127	PASS
	MCH	-2.812	-37.359	-22.812	PASS
	HCH	-4.435	-37.213	-24.435	PASS
11N40 SISO	LCH	-6.577	-37.928	-26.577	PASS
	MCH	-5.735	-37.706	-25.735	PASS
	HCH	-5.964	-38.351	-25.964	PASS

11B LCH Graphs

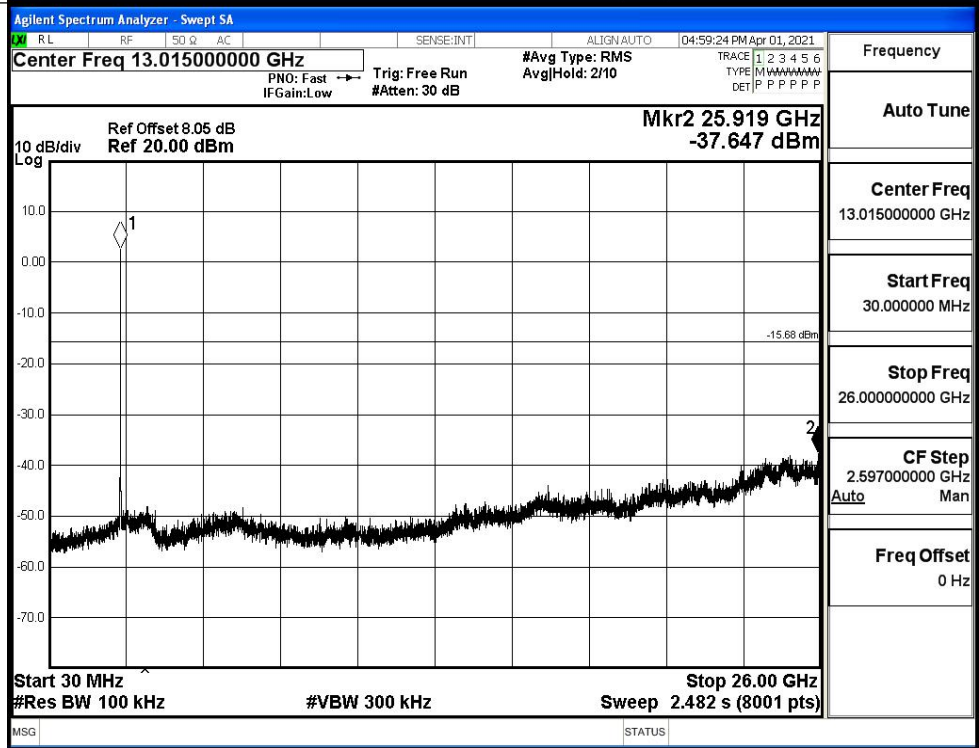


11B MCH Graphs

Pref/11B/MCH

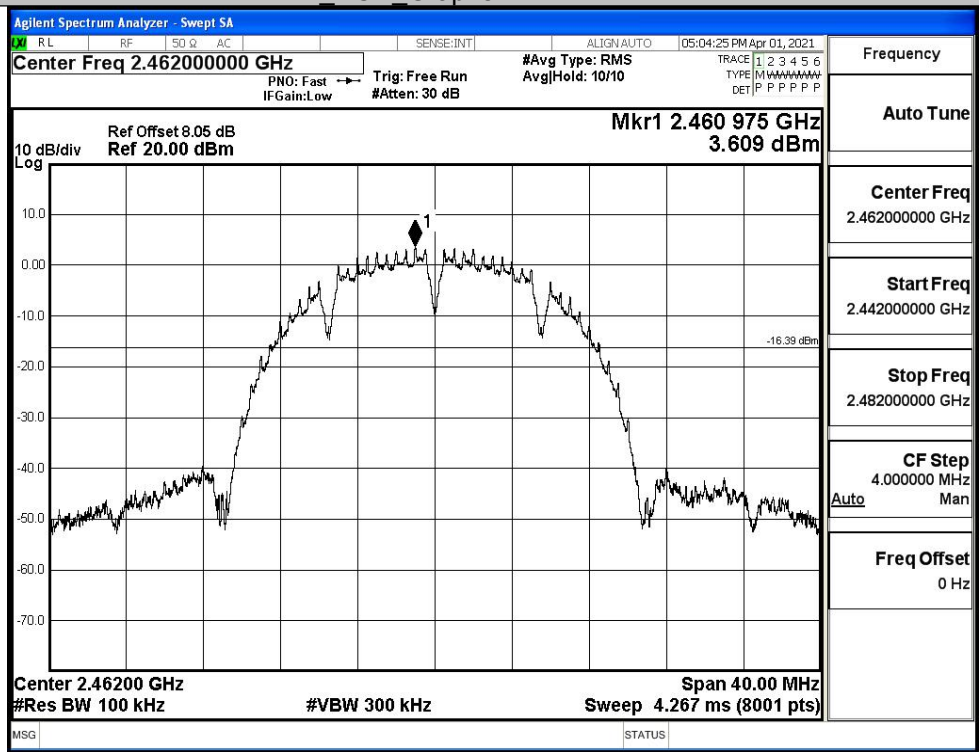


Puw/11B/MCH

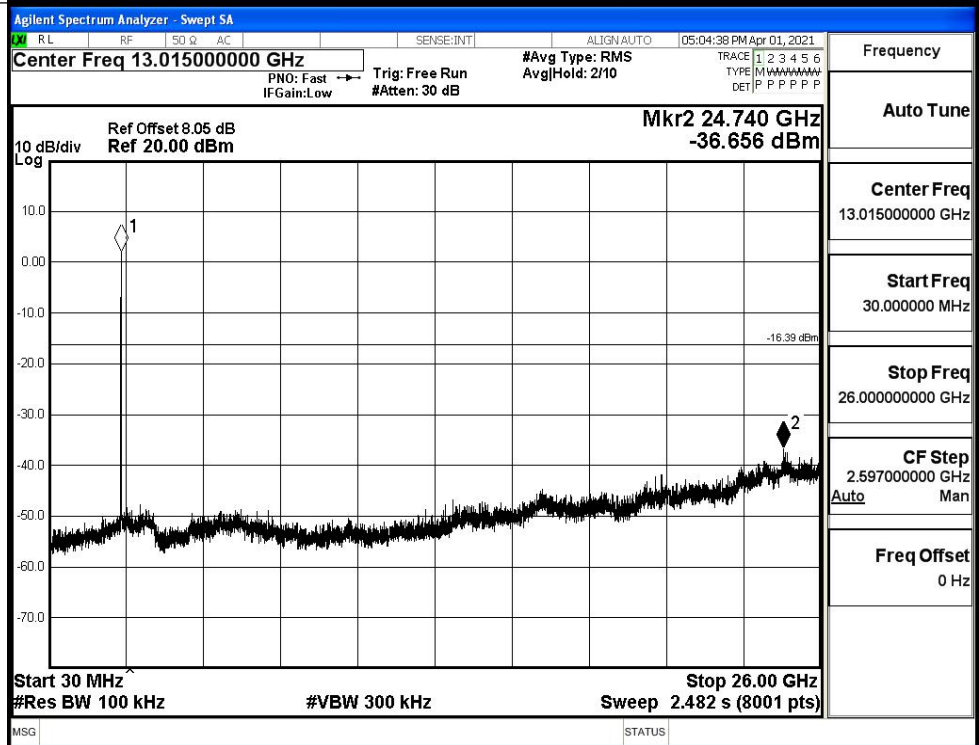


11B HCH Graphs

Pref/11B/HCH

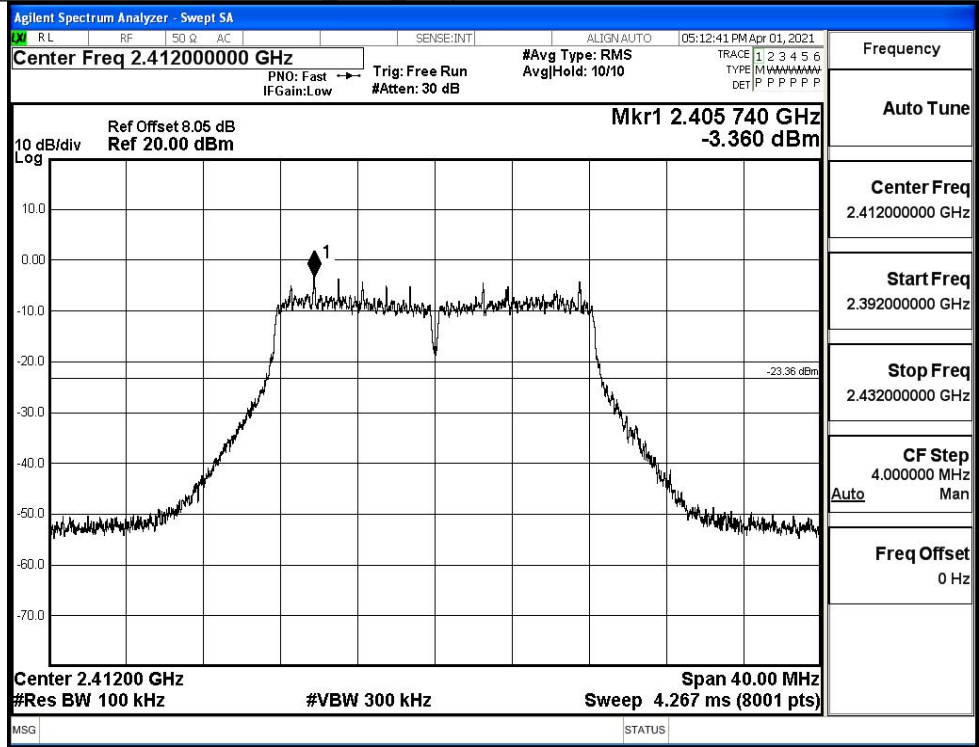


Puw/11B/HCH

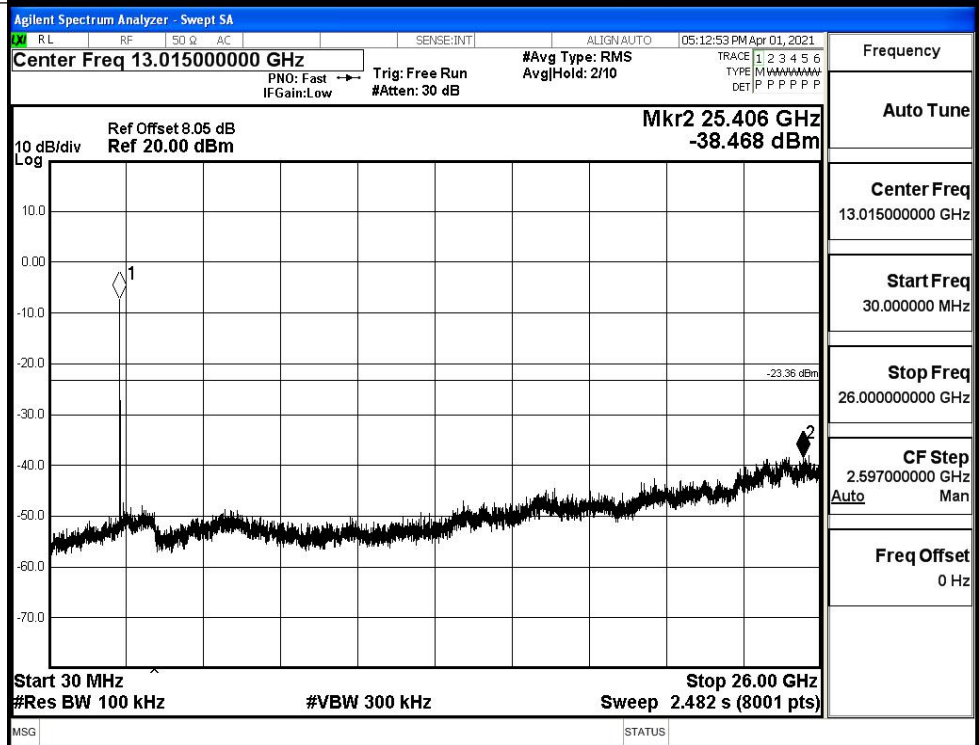


11G LCH Graphs

Pref/11G/LCH

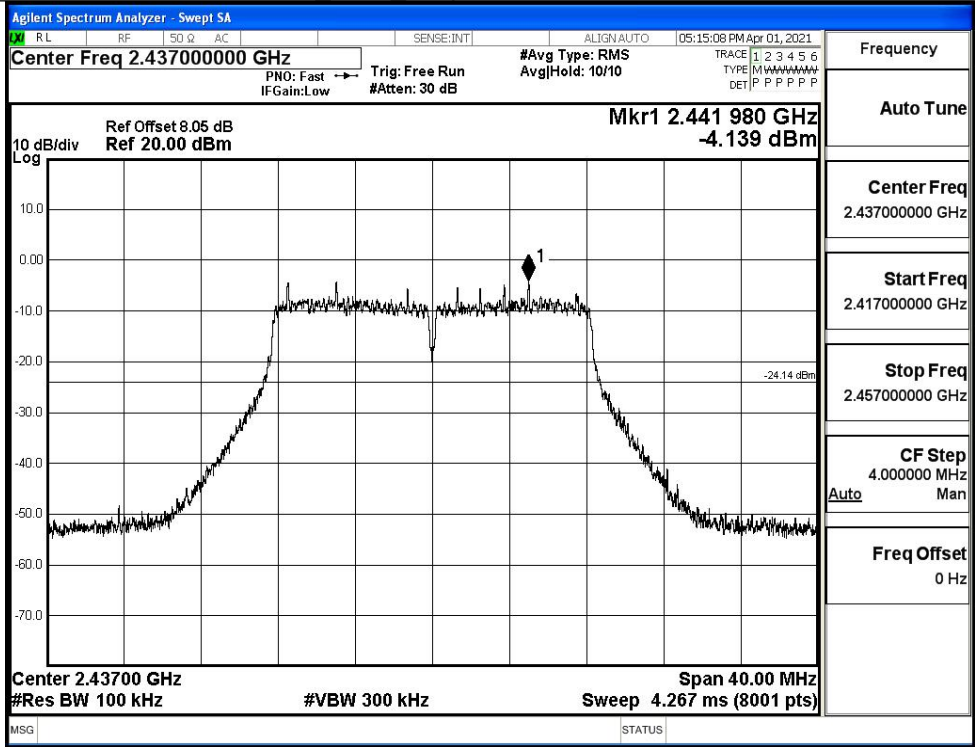


Puw/11G/LCH

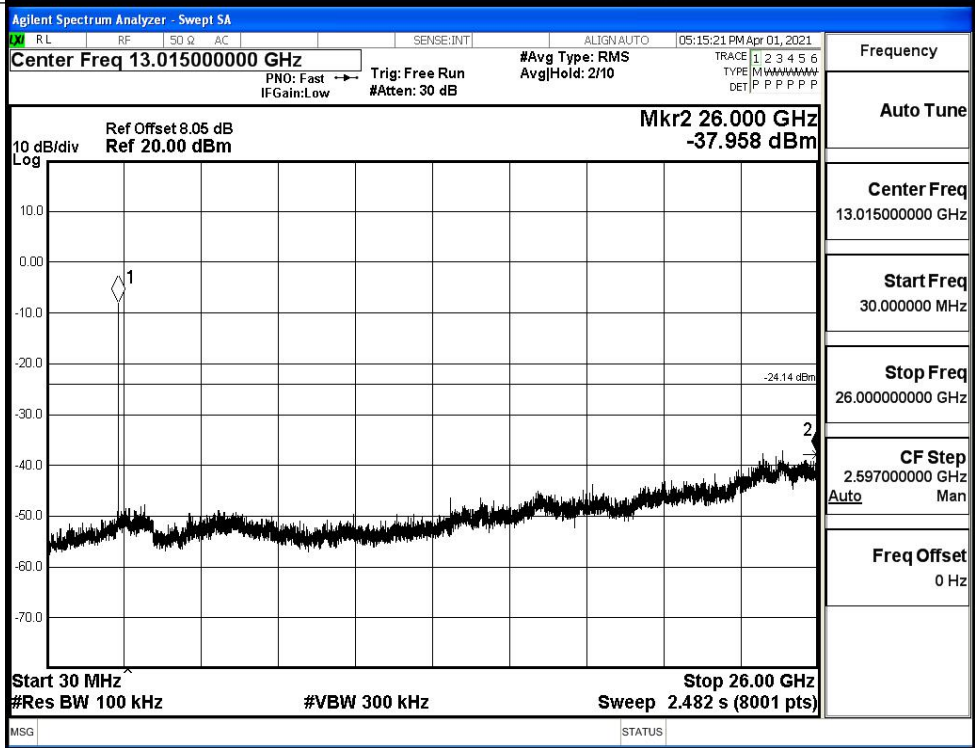


11G MCH Graphs

Pref/11G/MCH

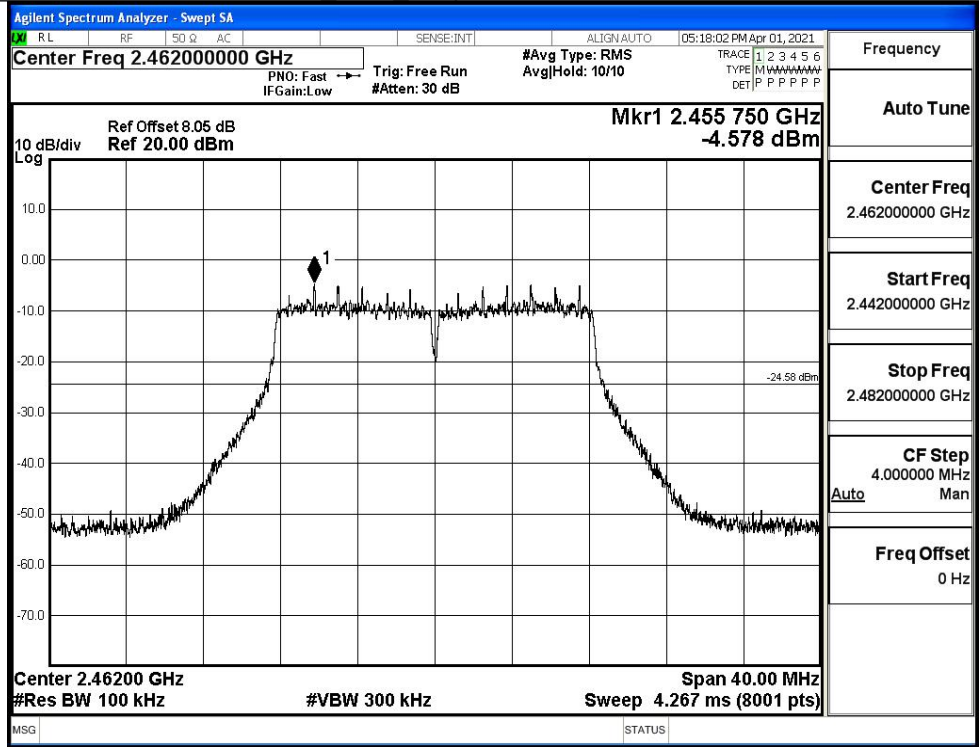


Puw/11G/MCH

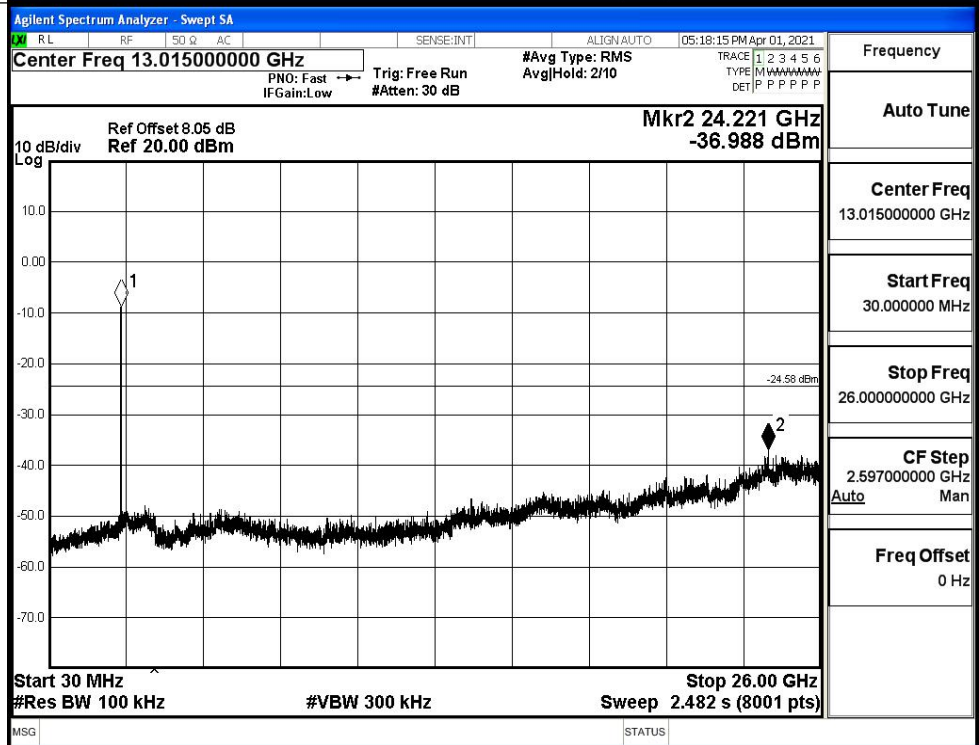


11G HCH Graphs

Pref/11G/HCH

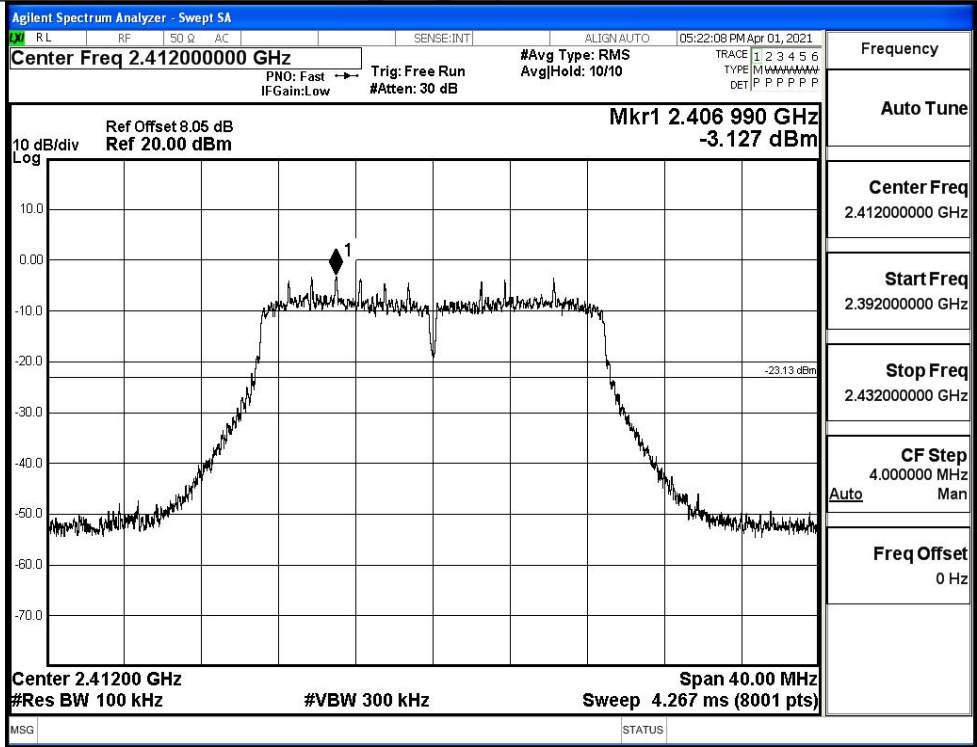


Puw/11G/HCH

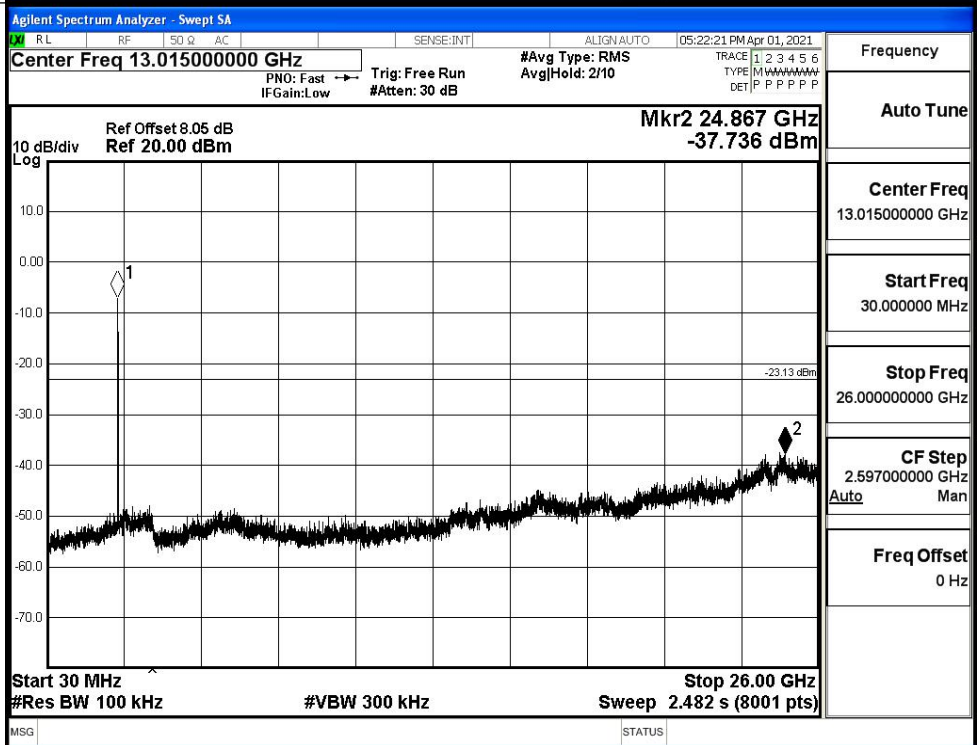


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

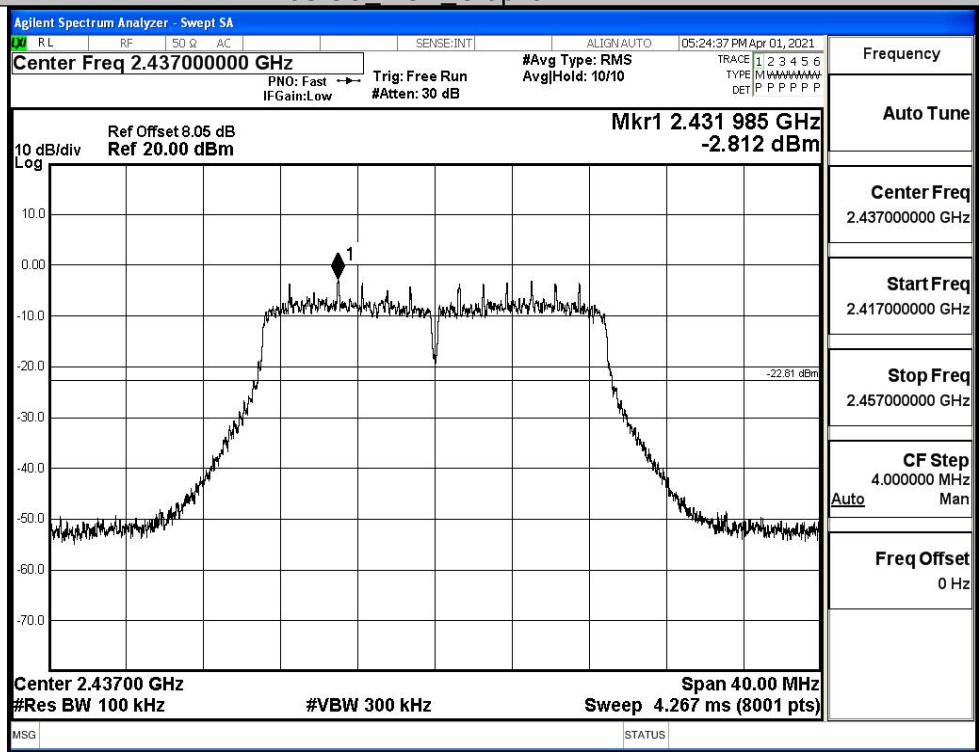


Puw/11N20
SISO/LCH



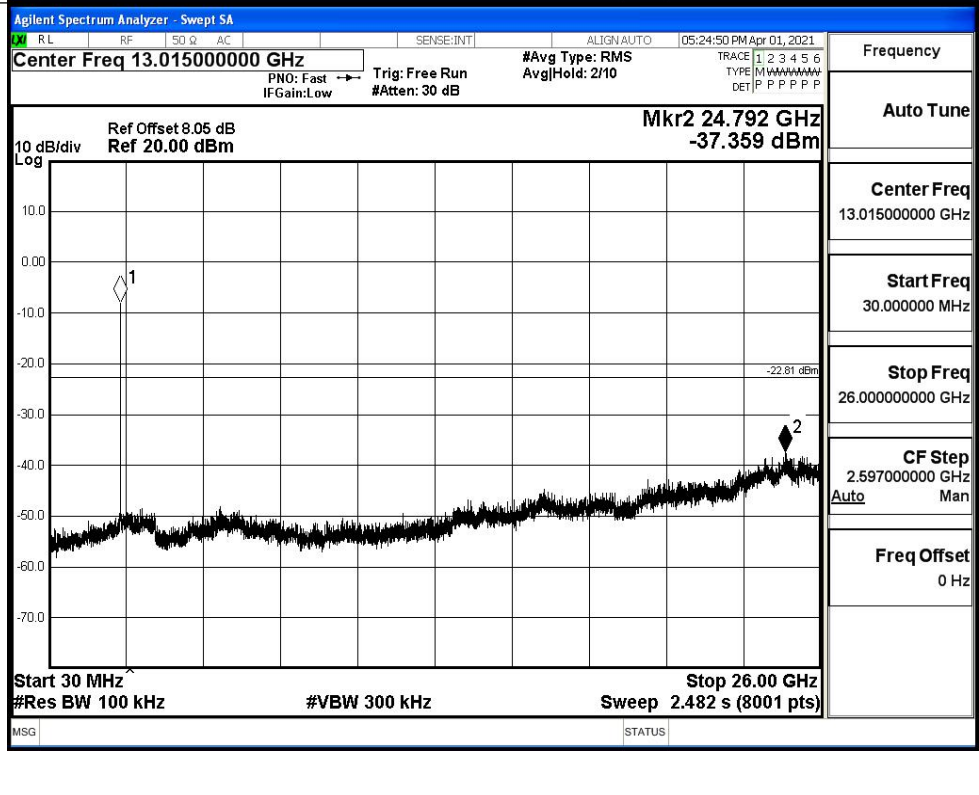
11N20SISO MCH Graphs

Pref/11N20
SISO/MCH



Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.417000000 GHz
Stop Freq 2.457000000 GHz
CF Step 4.000000 MHz Auto Man
Freq Offset 0 Hz

Puw/11N20
SISO/MCH



Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Auto Man
Freq Offset 0 Hz