

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Nreal Computing Unit

Trade Mark:  nreal

Test Model: NR-9100UGL

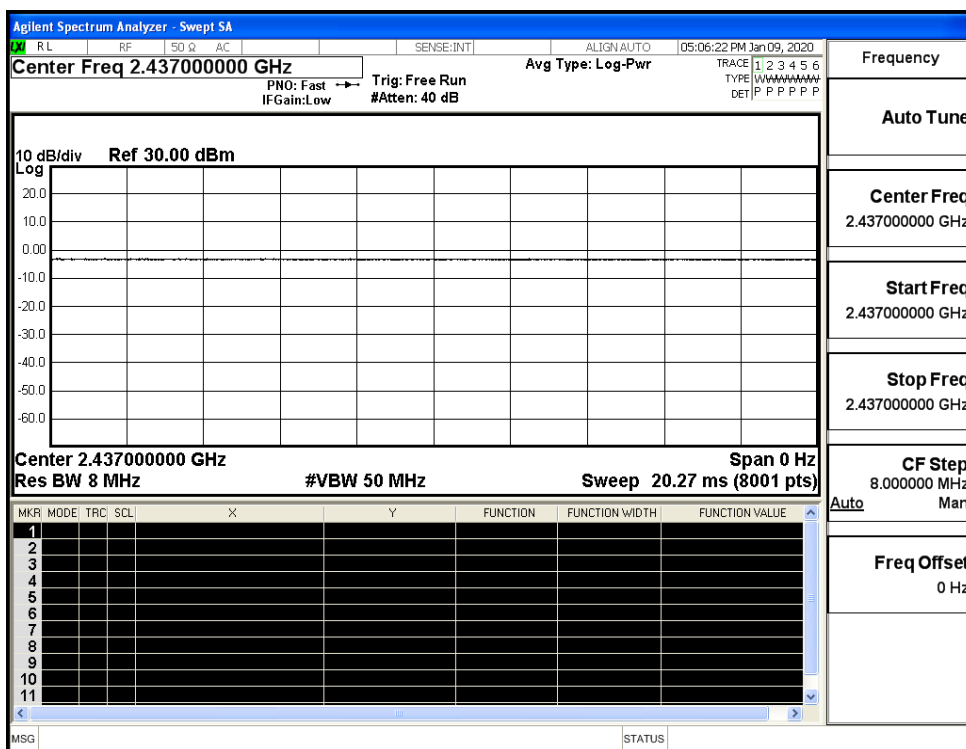
Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Tom.Liu

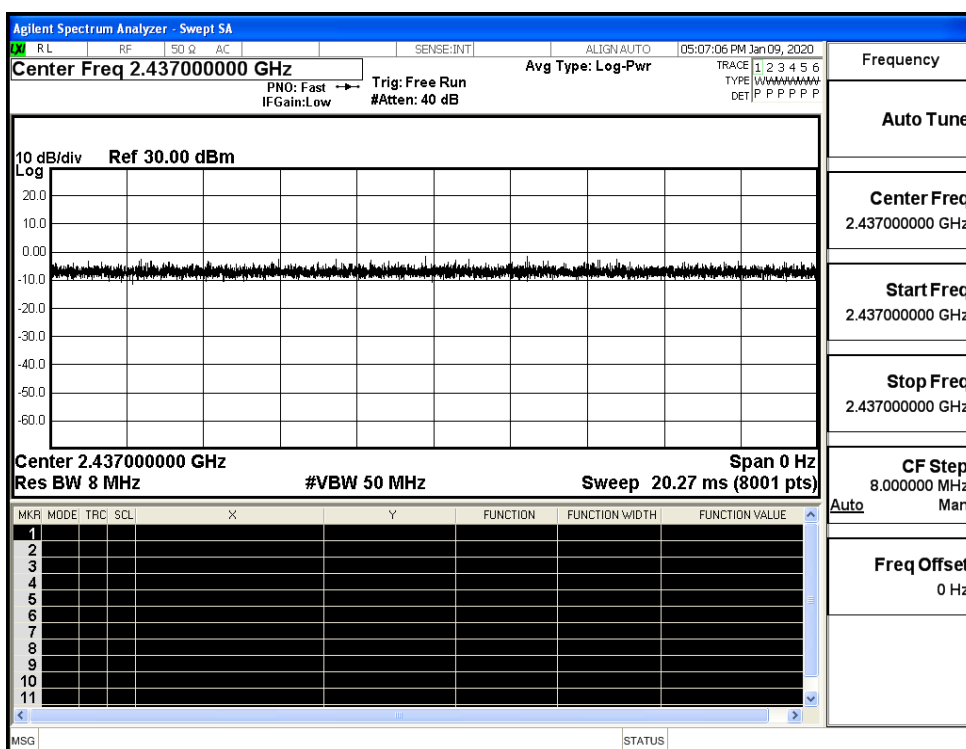
C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS

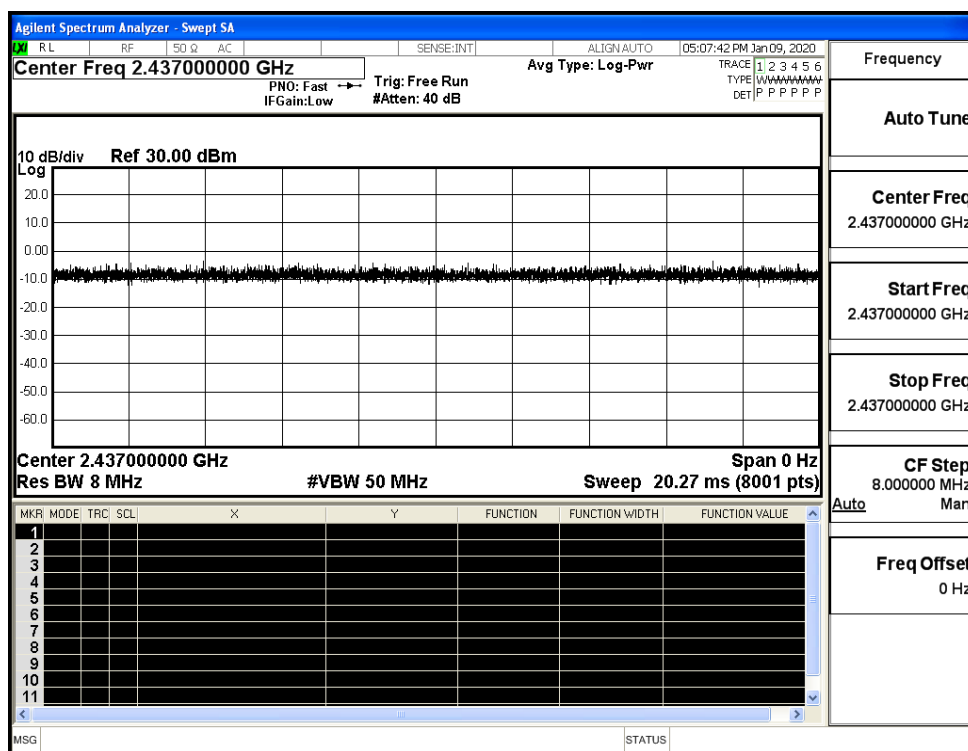
Duty Cycle_11B_2437_Ant0



Duty Cycle_11G_2437_Ant0

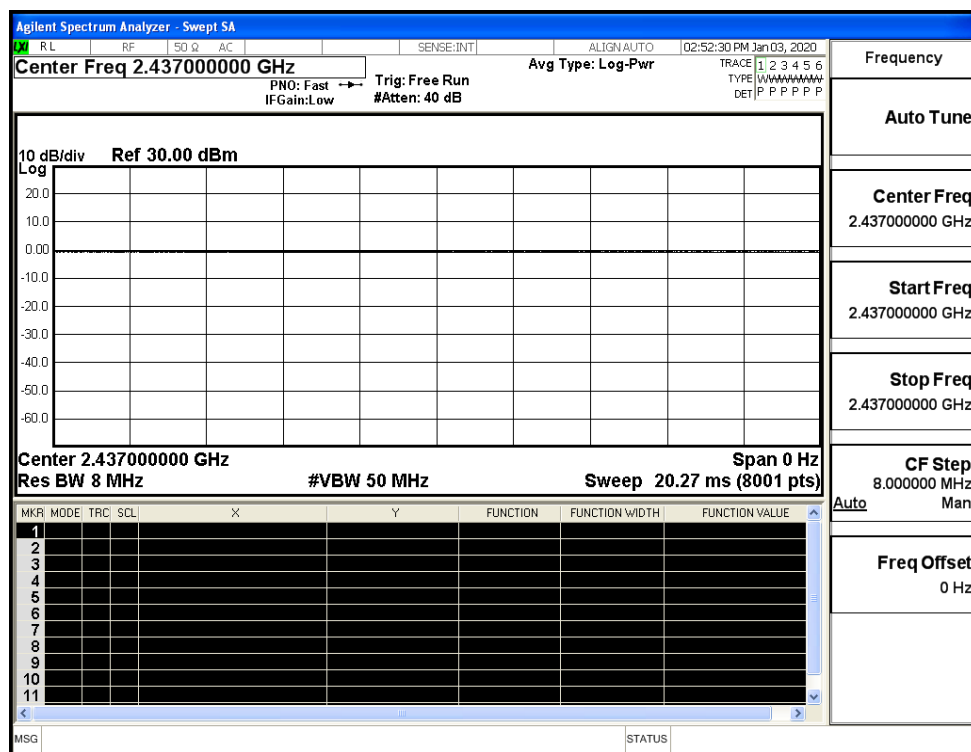


Duty Cycle_11N20SISO_2437_Ant0

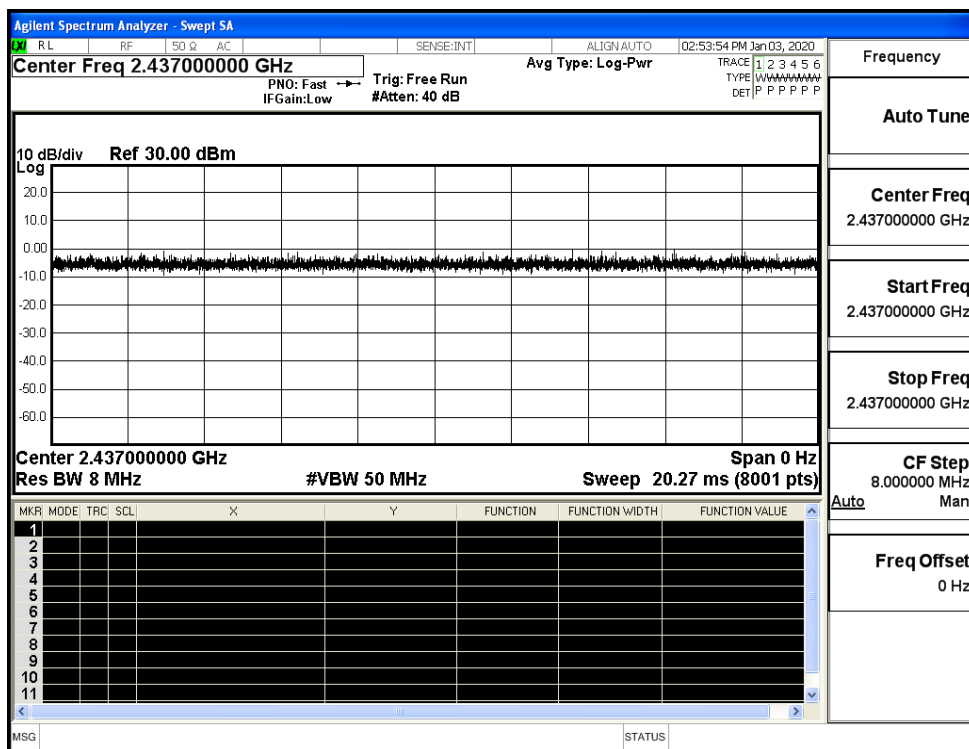


Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS

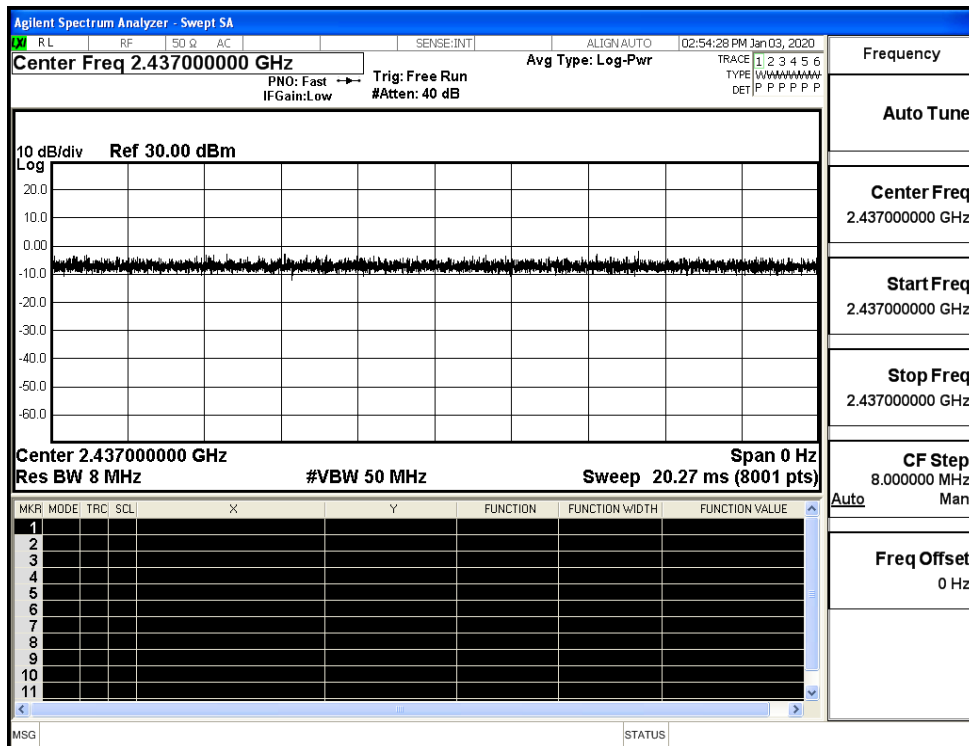
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

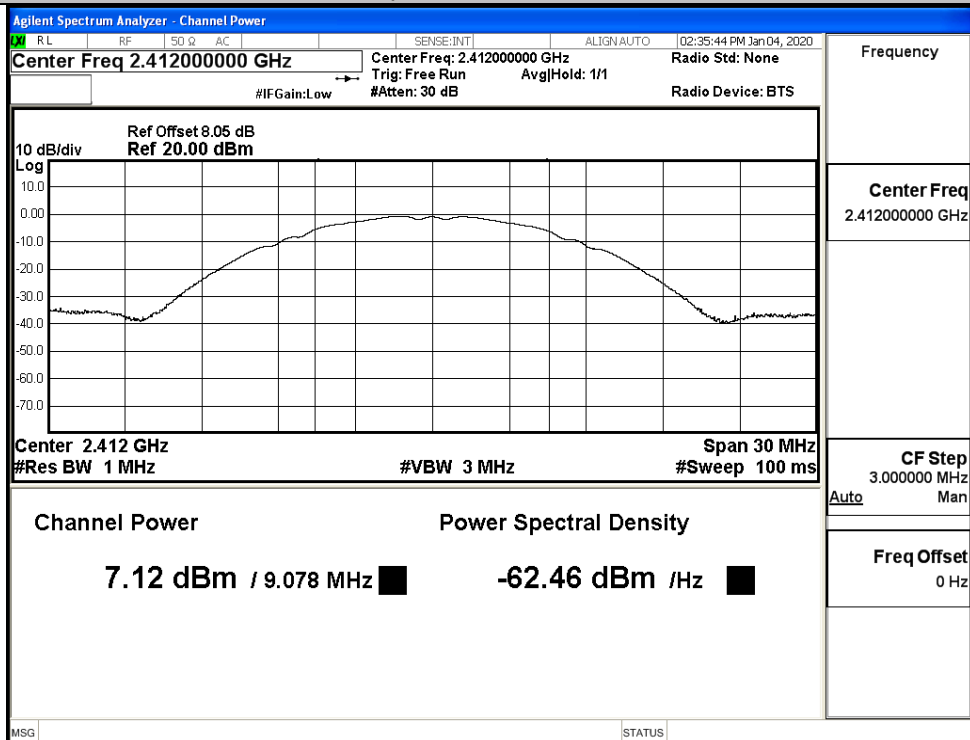


C.2 Maximum Conducted Output Power**Ant0**

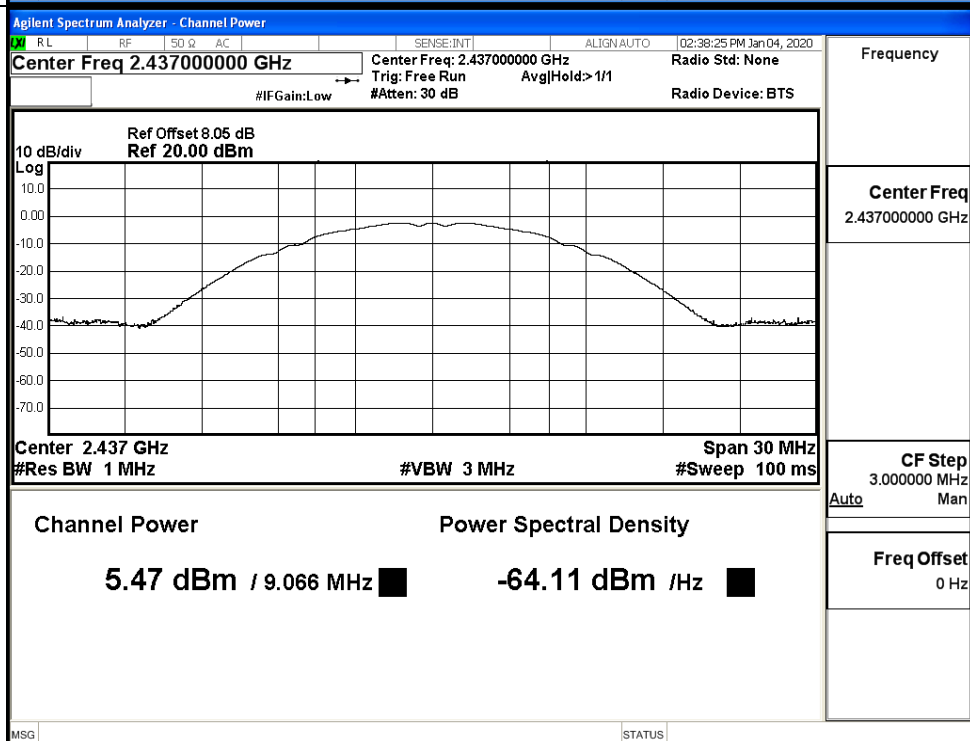
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	7.12	30	PASS
	MCH	5.47	30	PASS
	HCH	6.19	30	PASS
11G	LCH	7.91	30	PASS
	MCH	7.06	30	PASS
	HCH	7.82	30	PASS
11N20SISO	LCH	7.01	30	PASS
	MCH	6.14	30	PASS
	HCH	6.81	30	PASS

Test Graphs

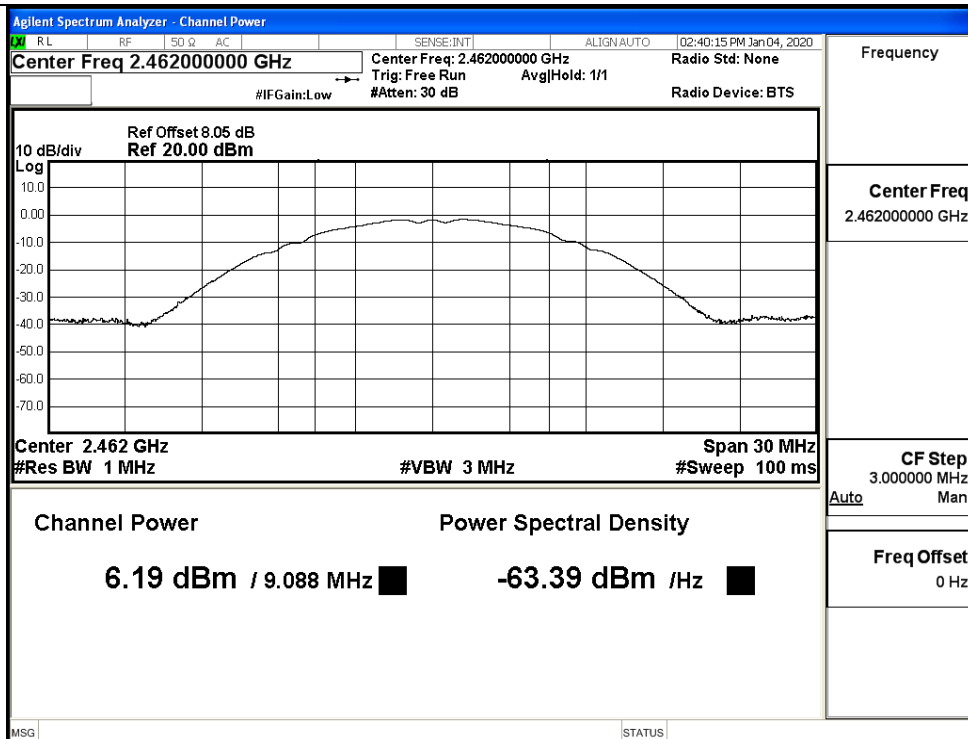
11B/LCH



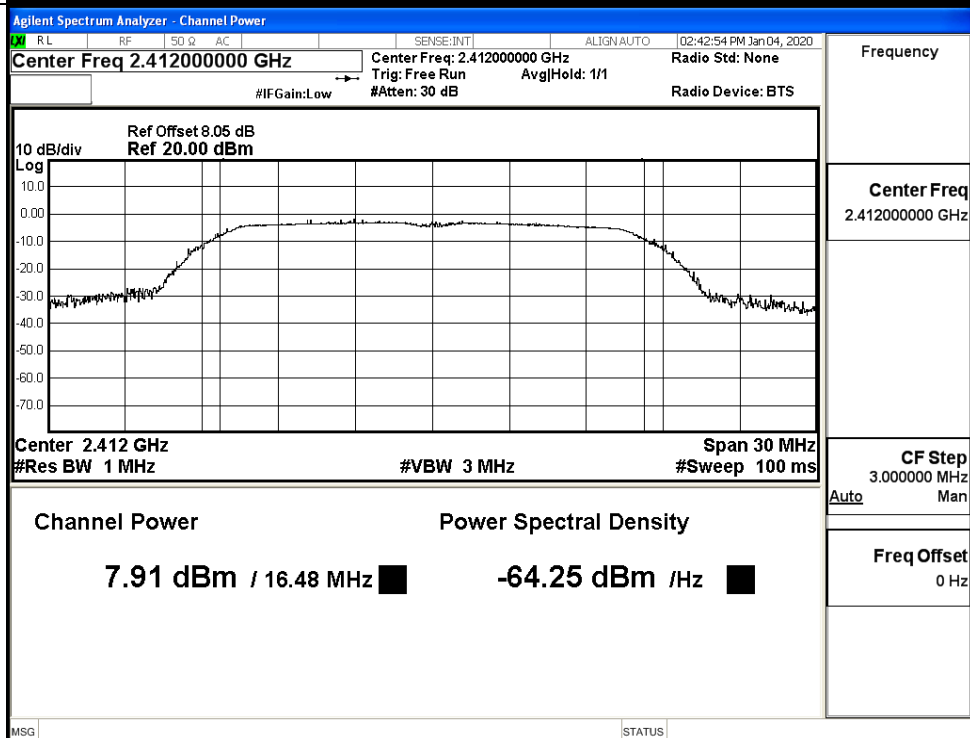
11B/MCH



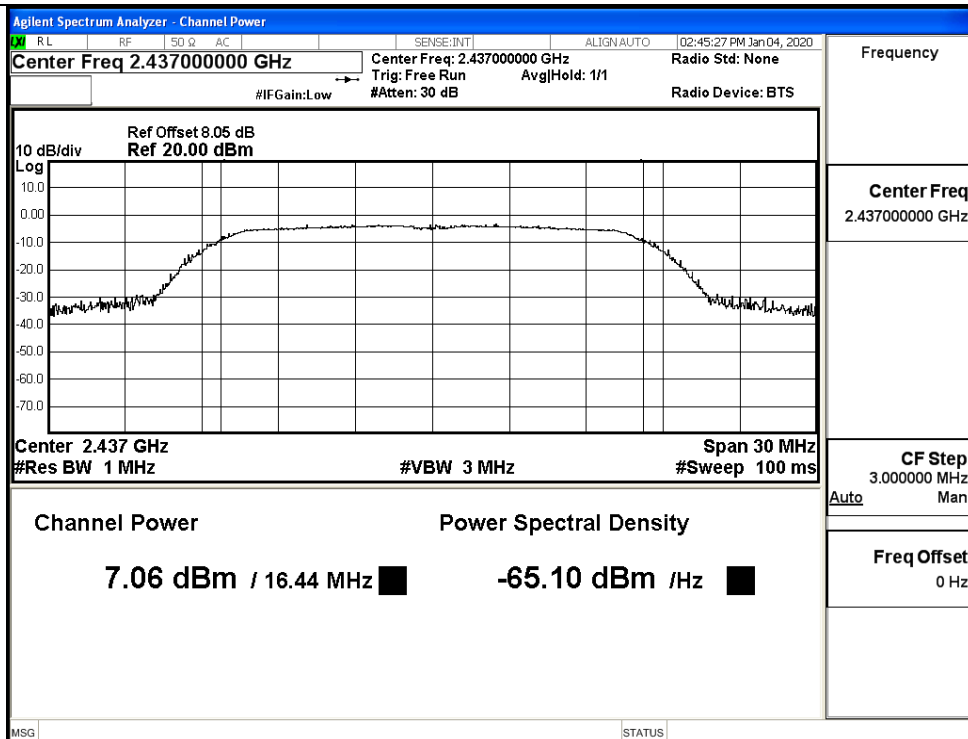
11B/HCH



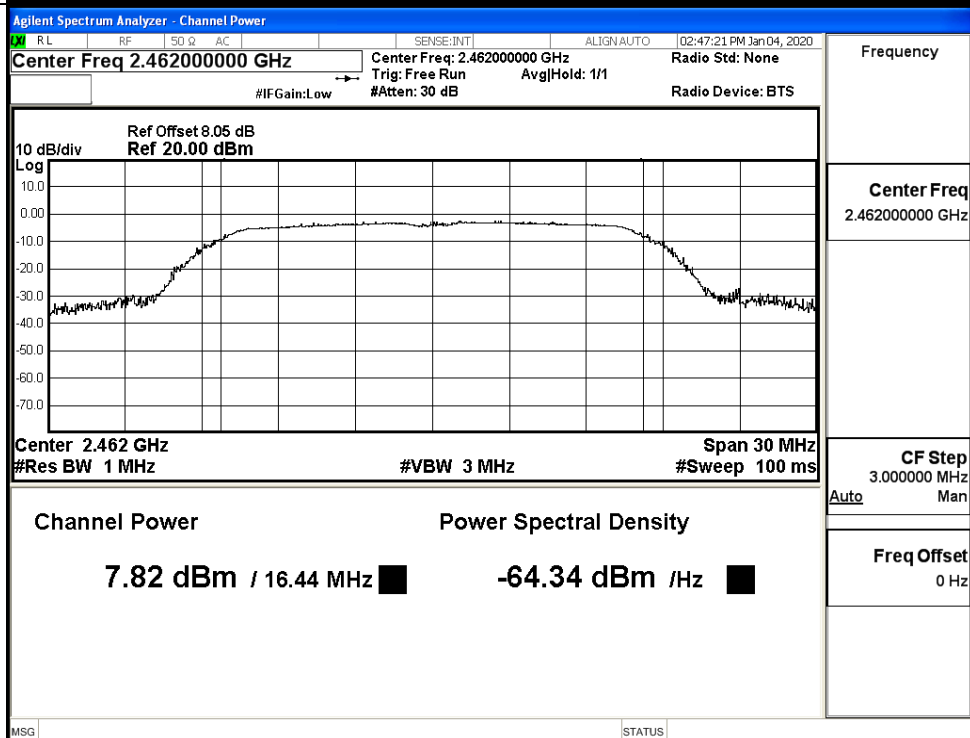
11G/LCH



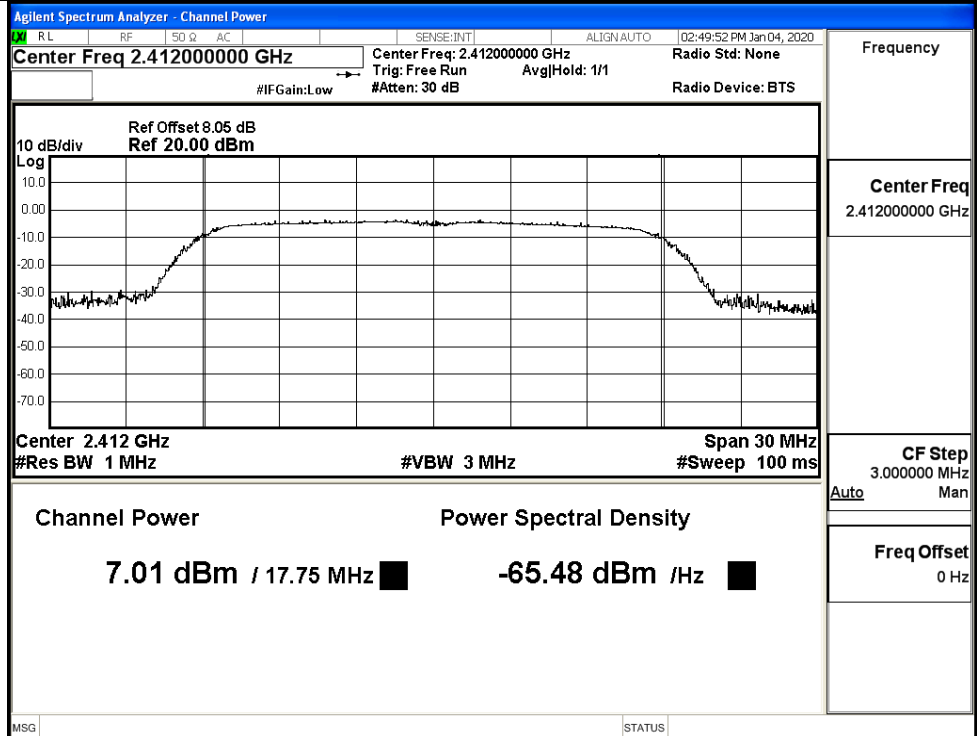
11G/MCH



11G/HCH



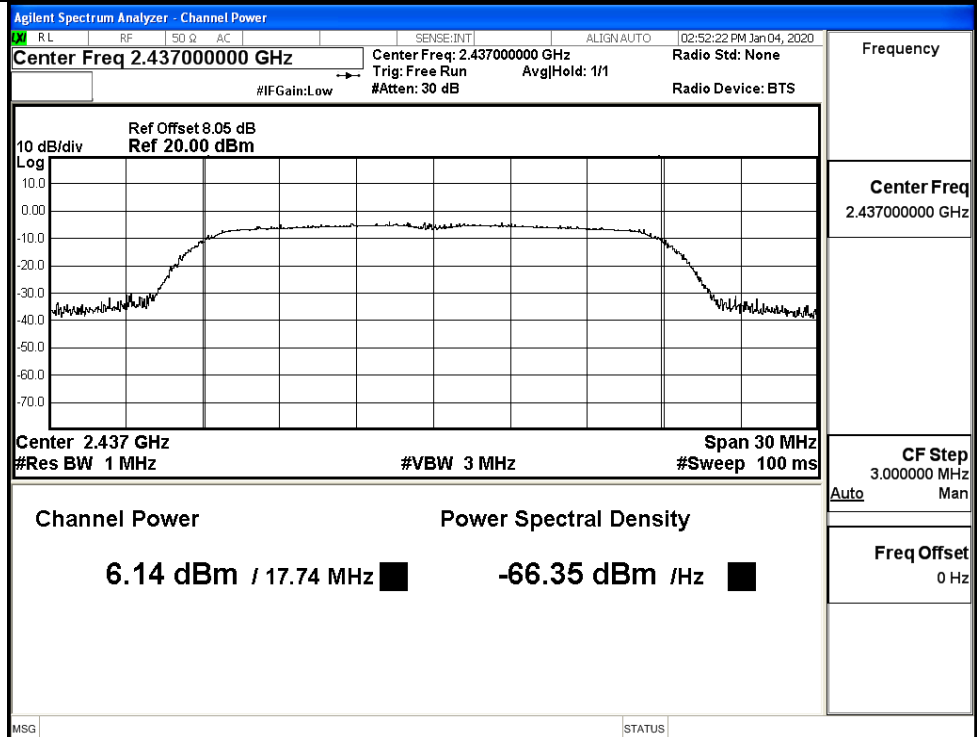
11N20SISO/LCH



Frequency

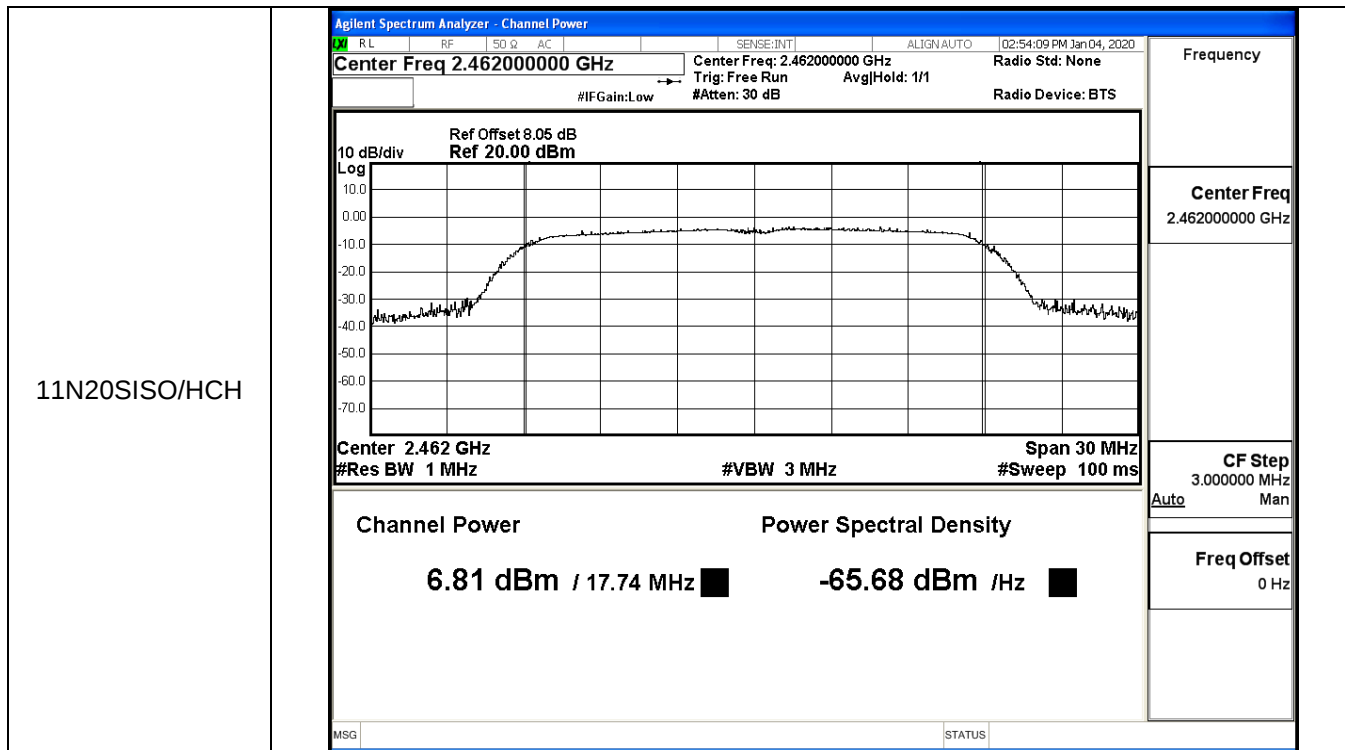
Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

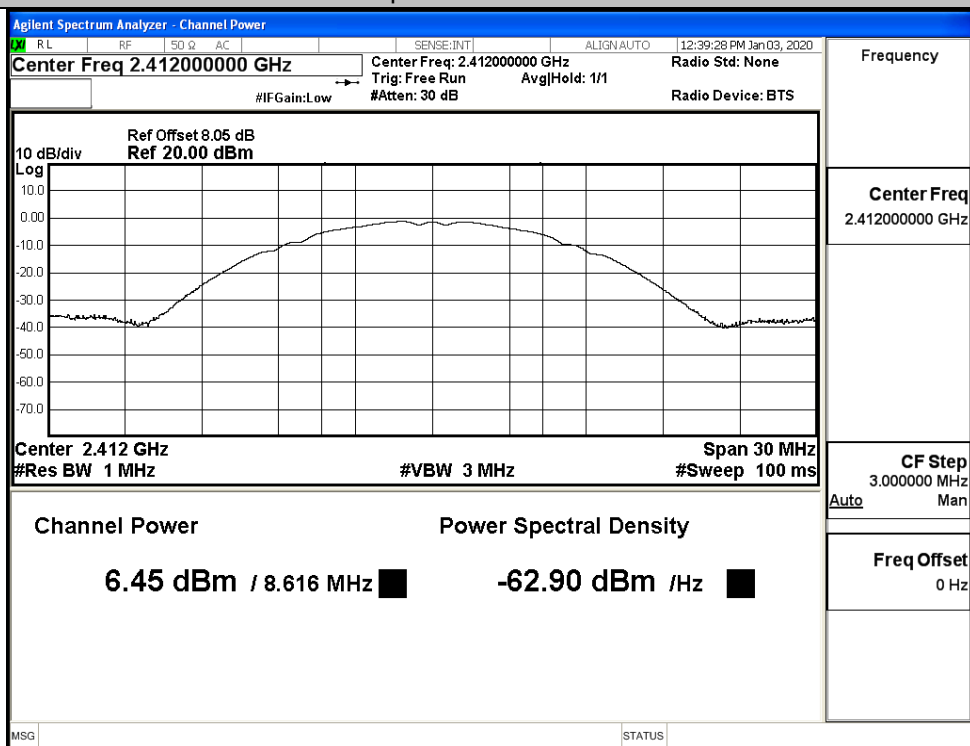


Ant1

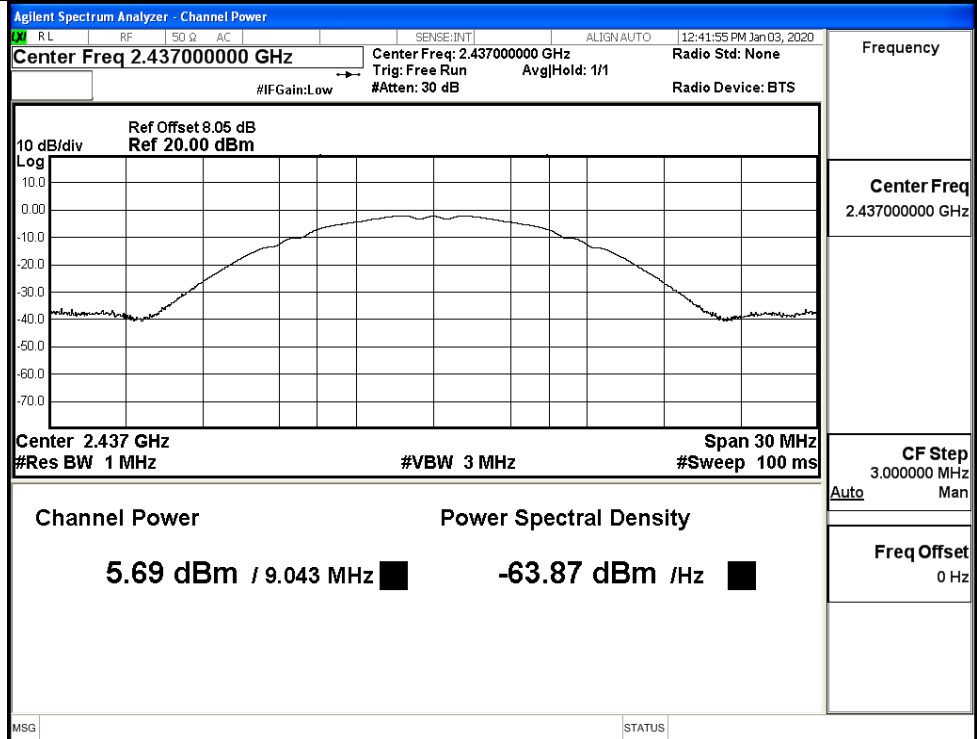
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.45	30	PASS
	MCH	5.69	30	PASS
	HCH	6.32	30	PASS
11G	LCH	8.26	30	PASS
	MCH	5.55	30	PASS
	HCH	6.17	30	PASS
11N20SISO	LCH	5.59	30	PASS
	MCH	5.97	30	PASS
	HCH	6.62	30	PASS

Test Graphs

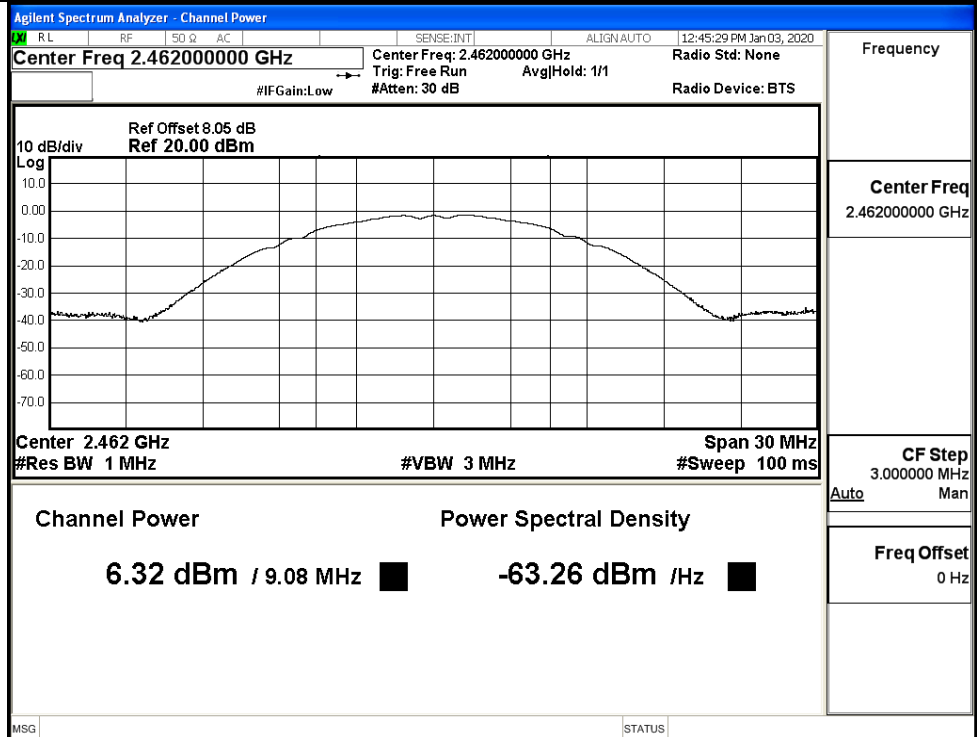
11B/LCH



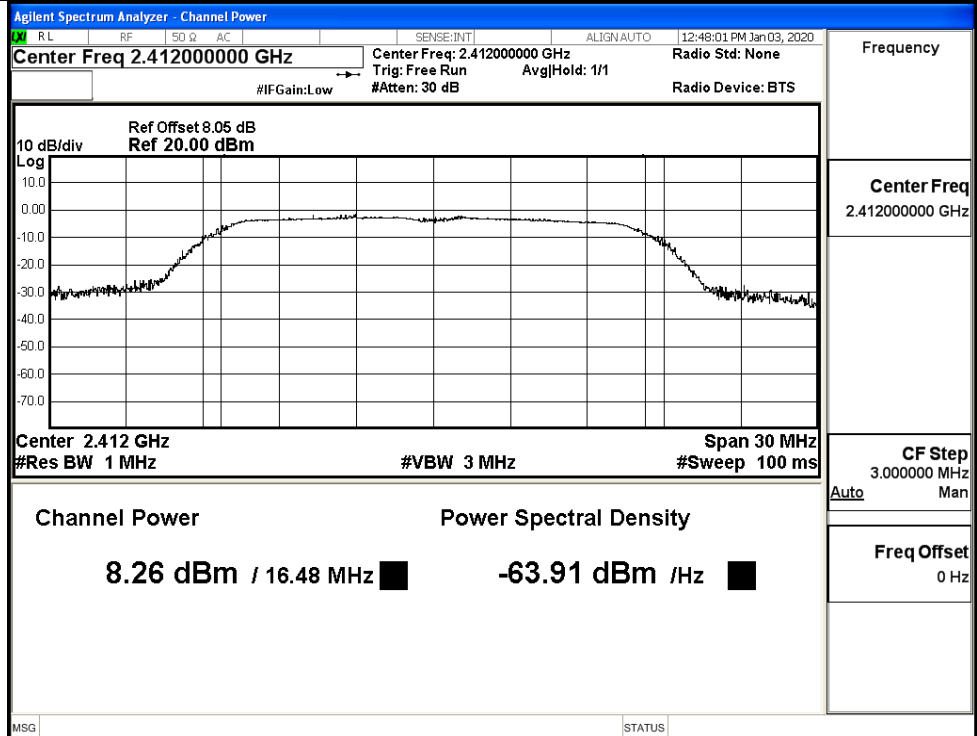
11B/MCH



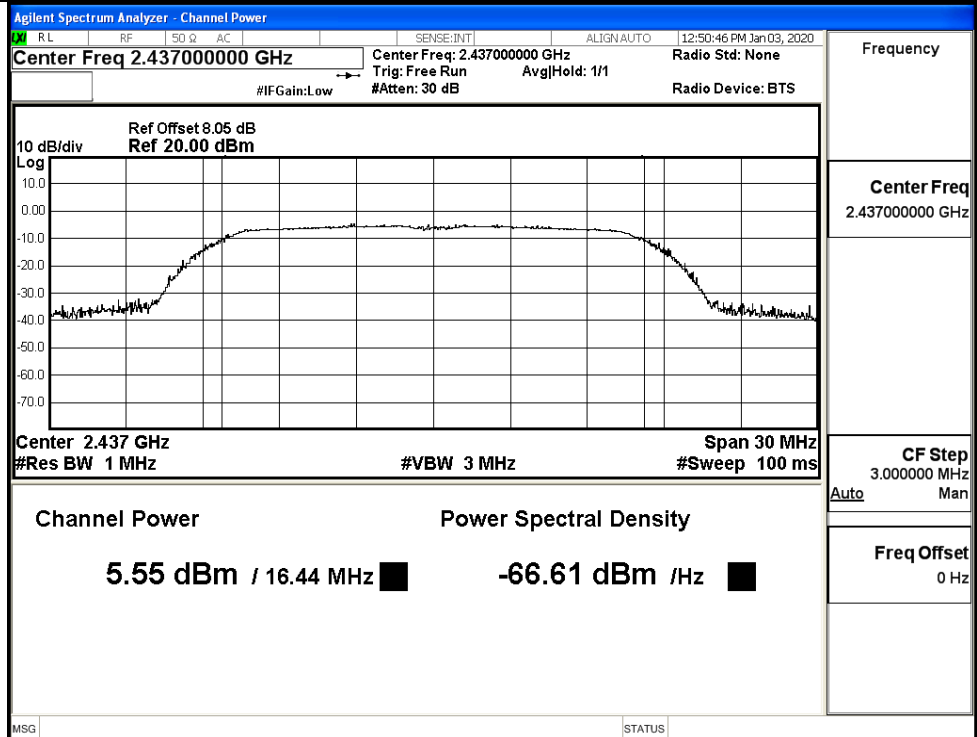
11B/HCH



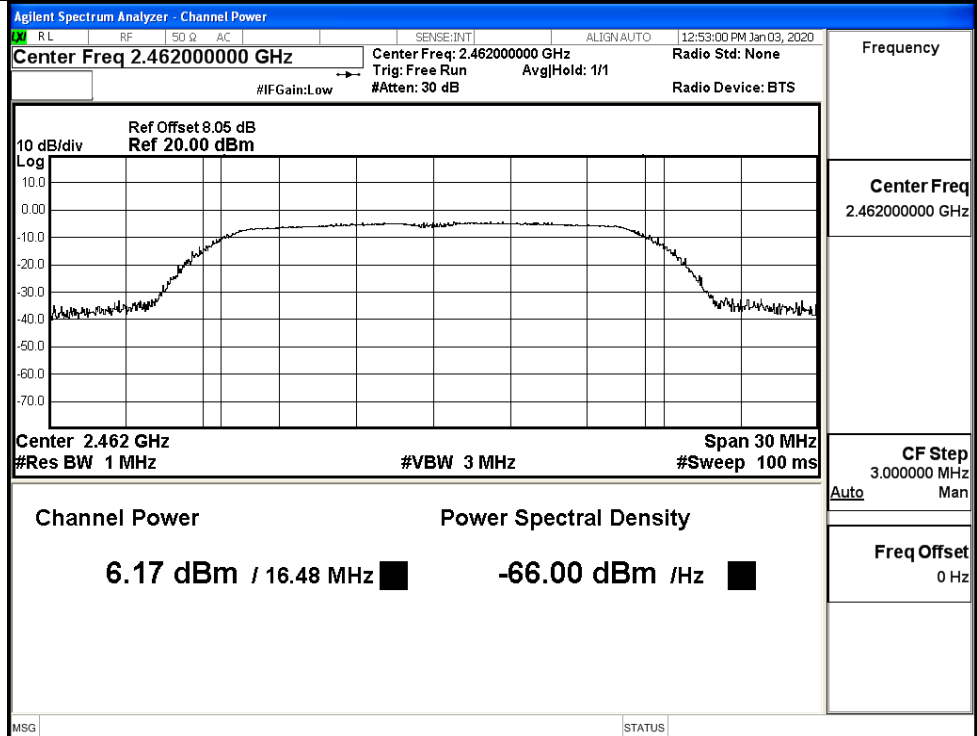
11G/LCH



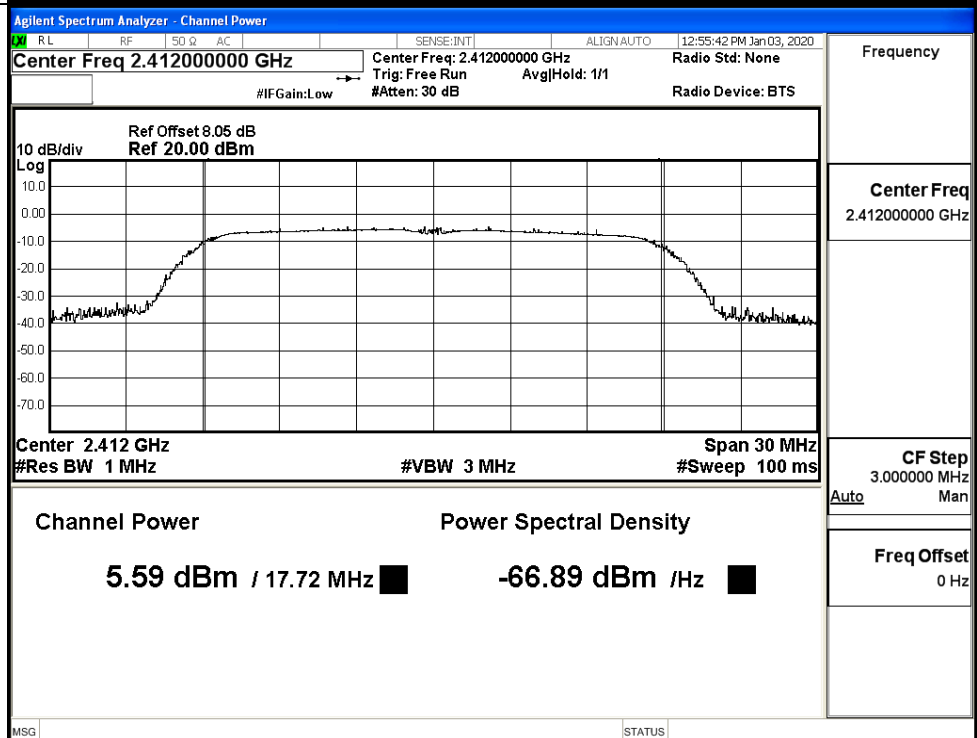
11G/MCH

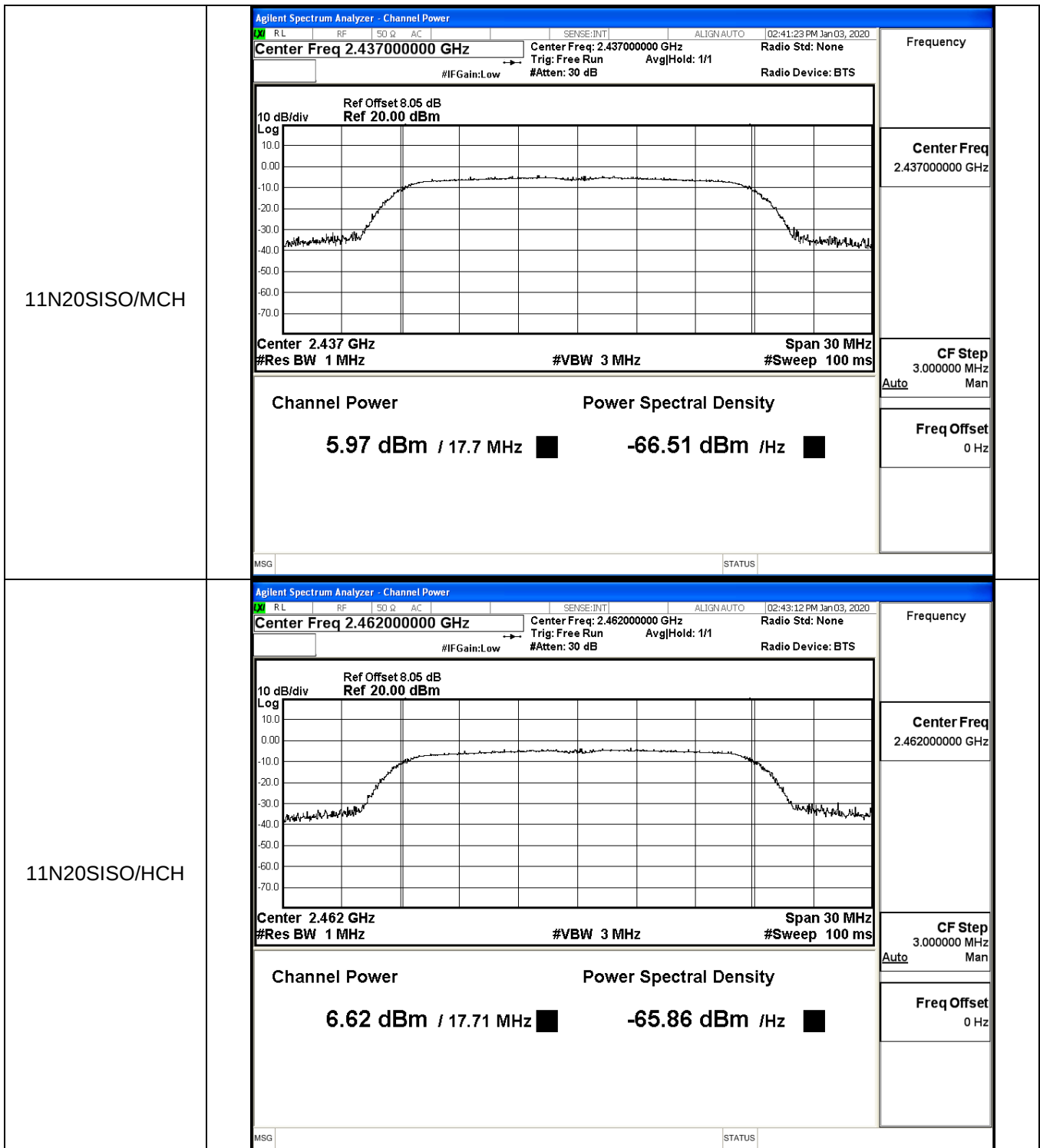


11G/HCH



11N20SISO/LCH





Ant 0+1

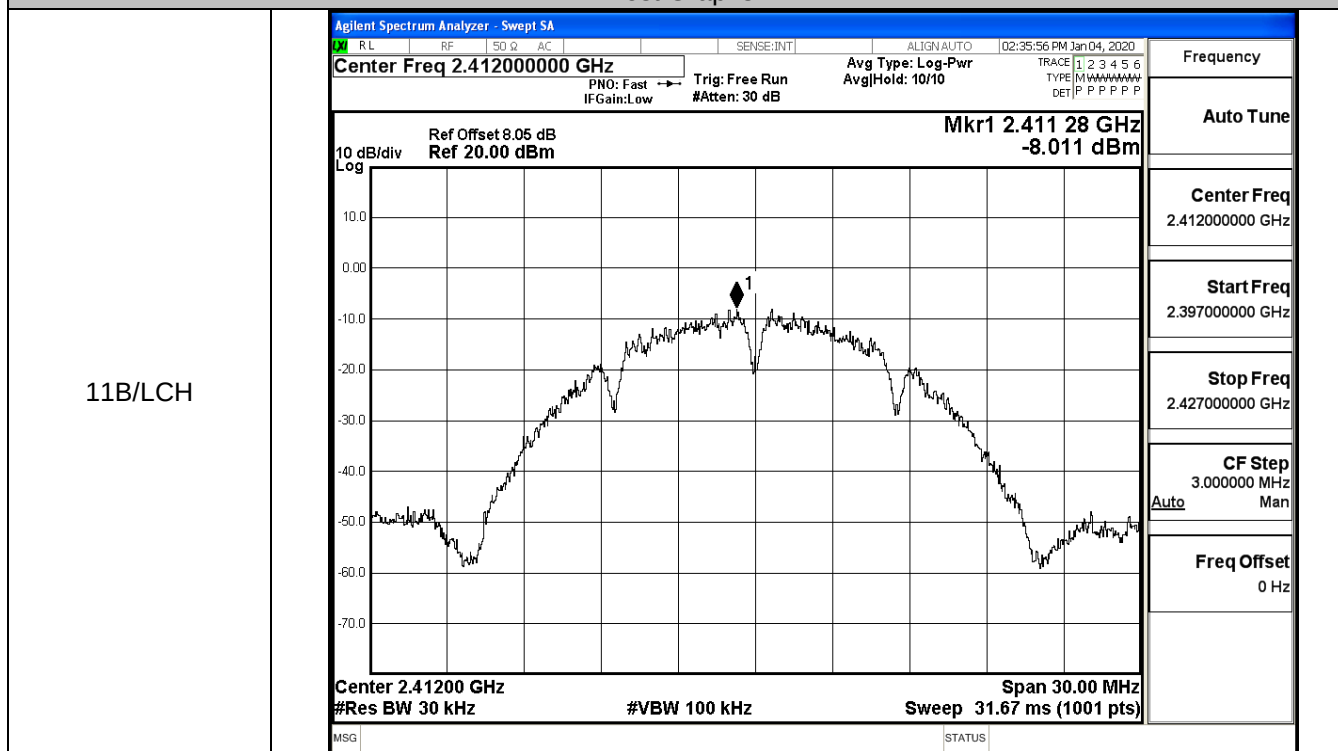
Mode	Channel	ANT 0 [dBm]	ANT 1 [dBm]	MIMO [dBm]	Limit [dBm]	Verdict
11N20SISO	LCH	7.01	5.59	9.37	30	PASS
	MCH	6.14	5.97	9.07	30	PASS
	HCH	6.81	6.62	9.73	30	PASS

C.3 Maximum Power Spectral Density

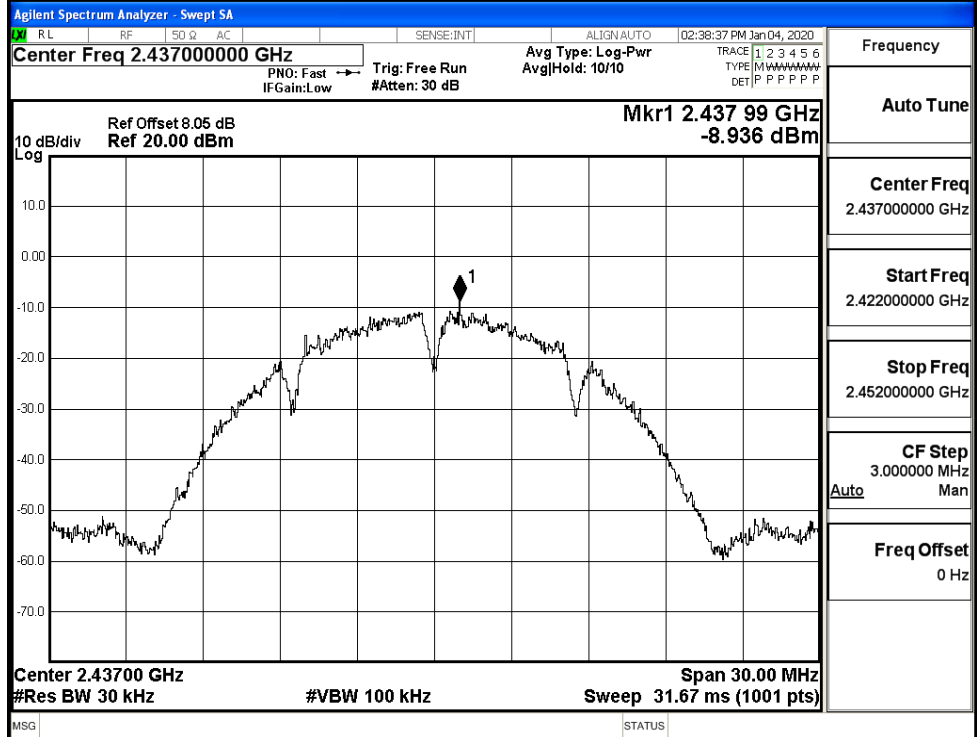
Ant0

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-8.011	8	PASS
	MCH	-8.936	8	PASS
	HCH	-8.939	8	PASS
11G	LCH	-15.438	8	PASS
	MCH	-16.784	8	PASS
	HCH	-16.070	8	PASS
11N20SISO	LCH	-16.921	8	PASS
	MCH	-17.682	8	PASS
	HCH	-17.233	8	PASS

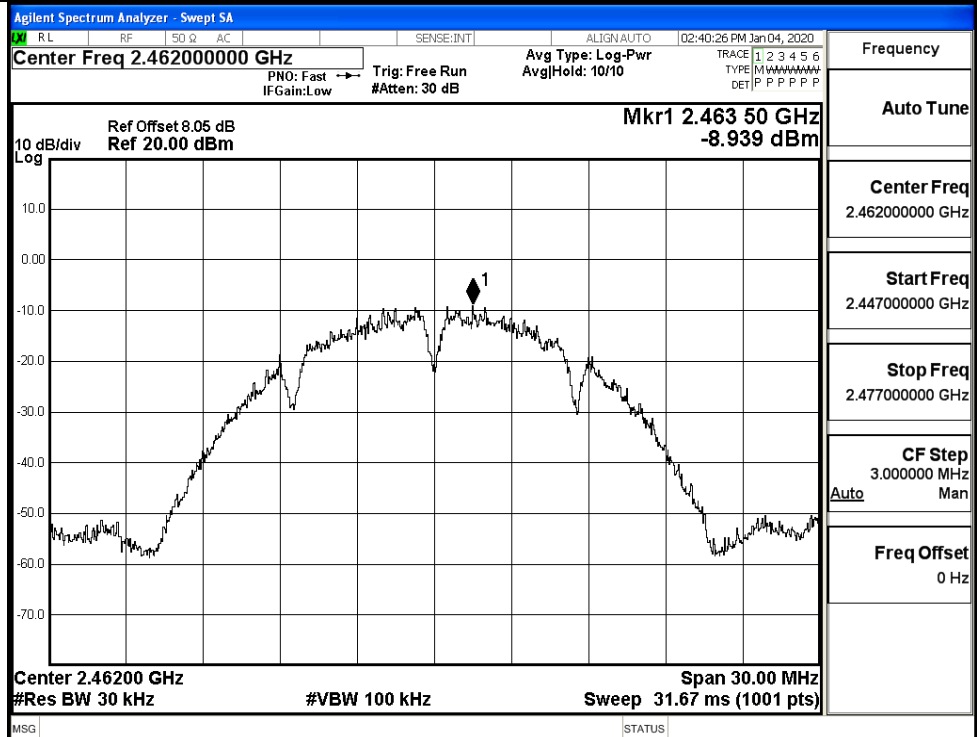
Test Graphs



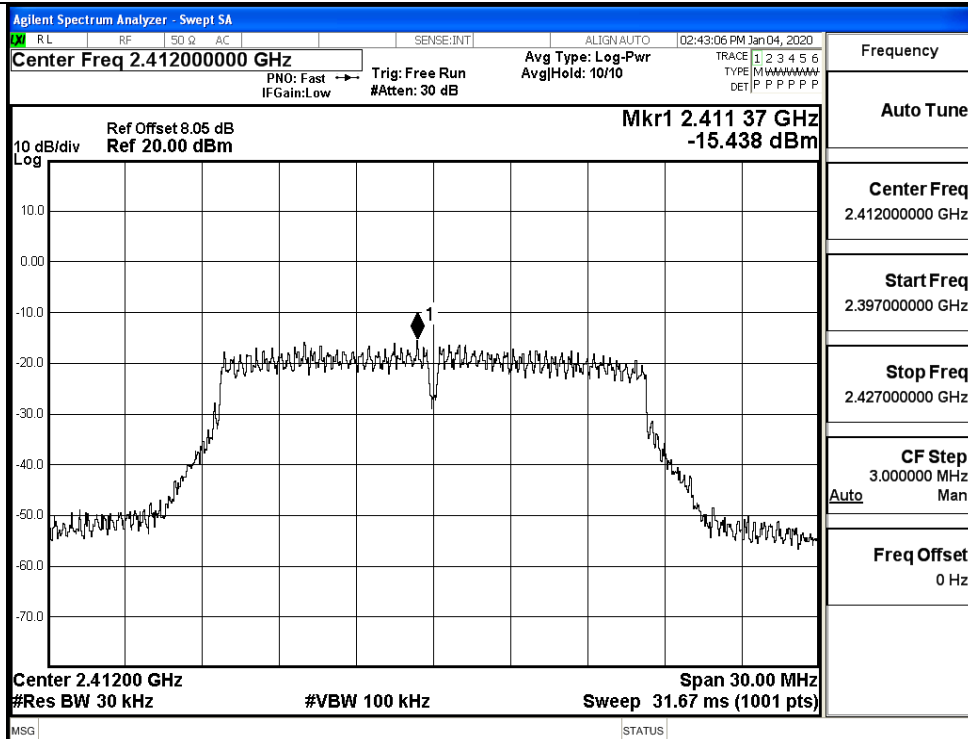
11B/MCH



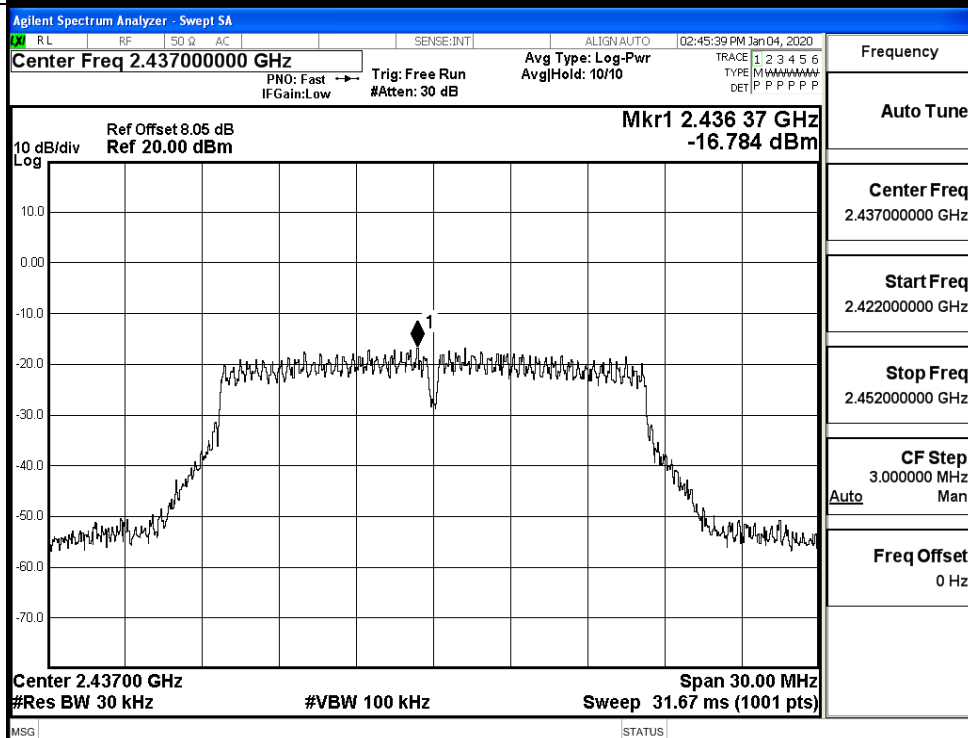
11B/HCH



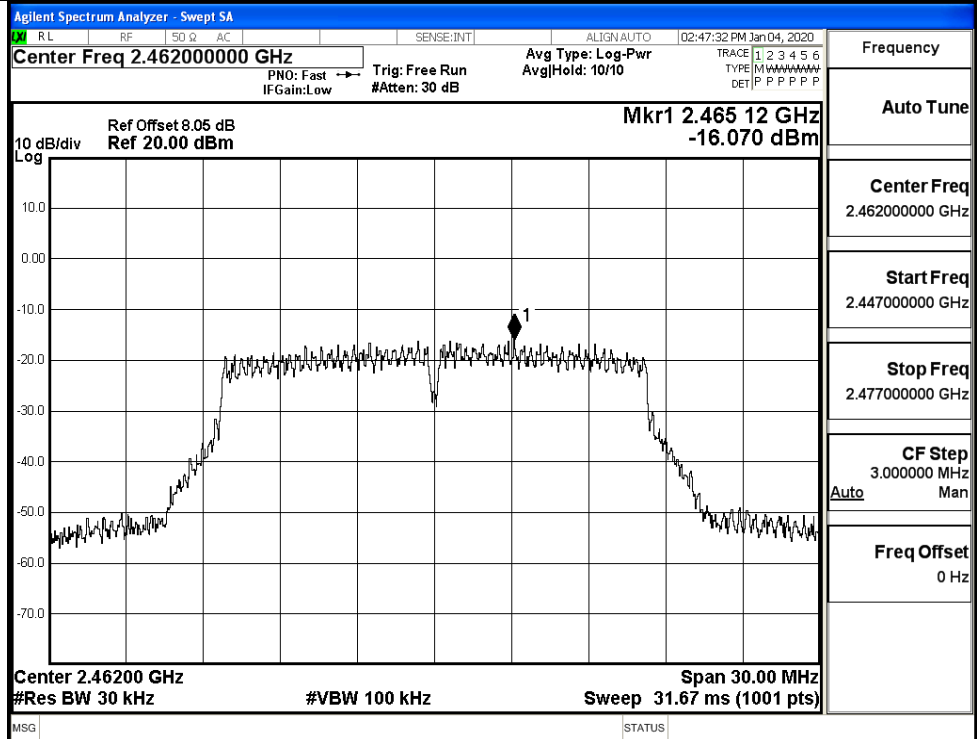
11G/LCH



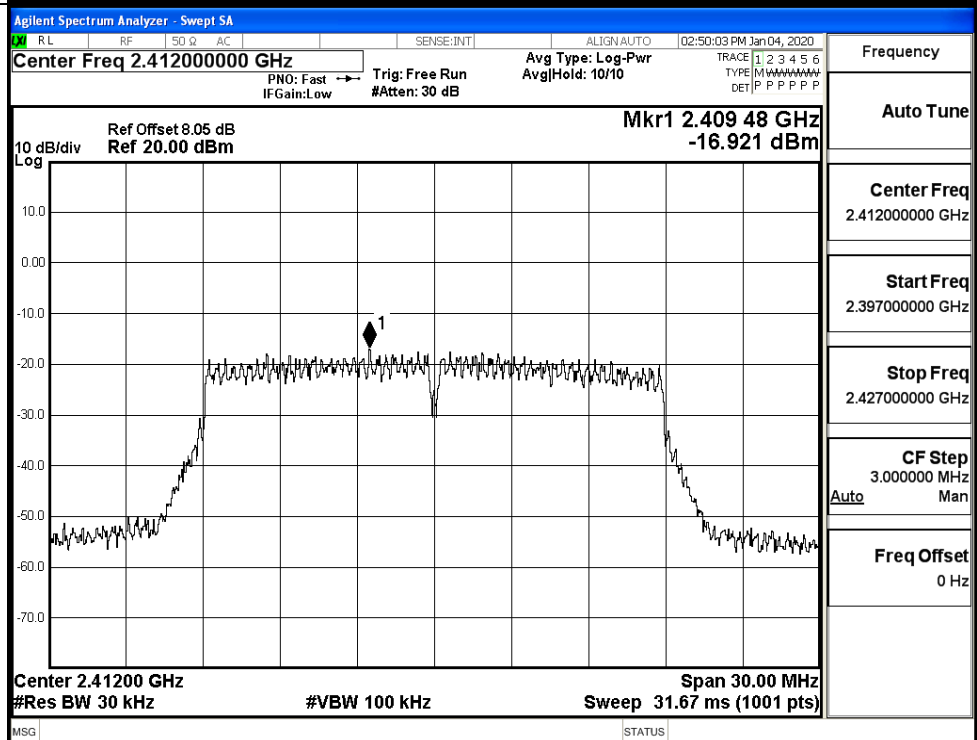
11G/MCH



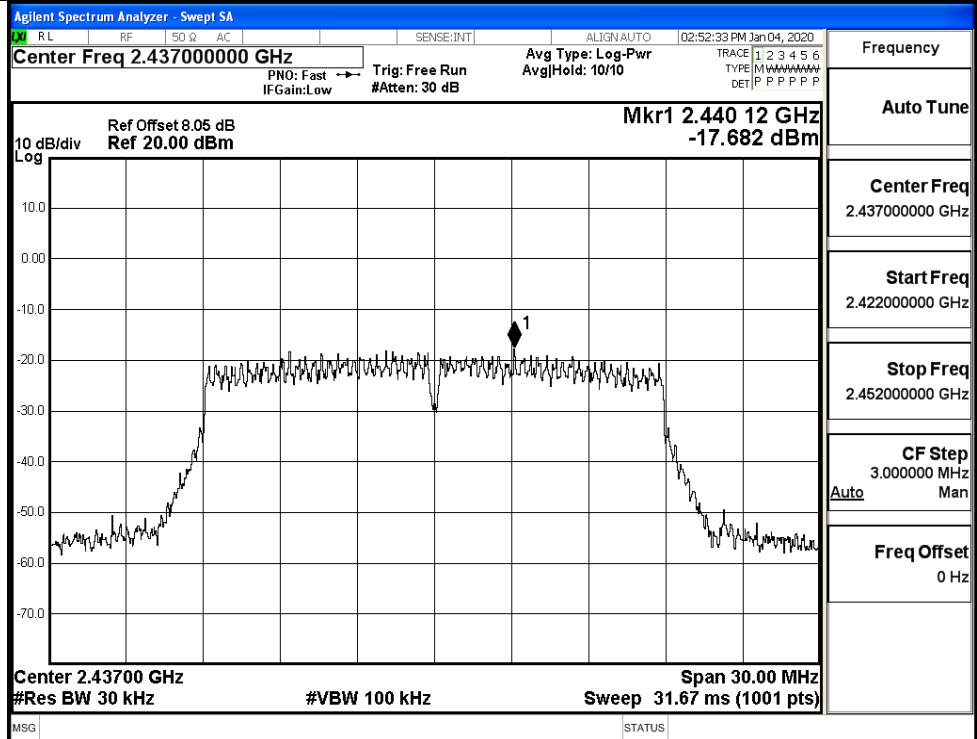
11G/HCH



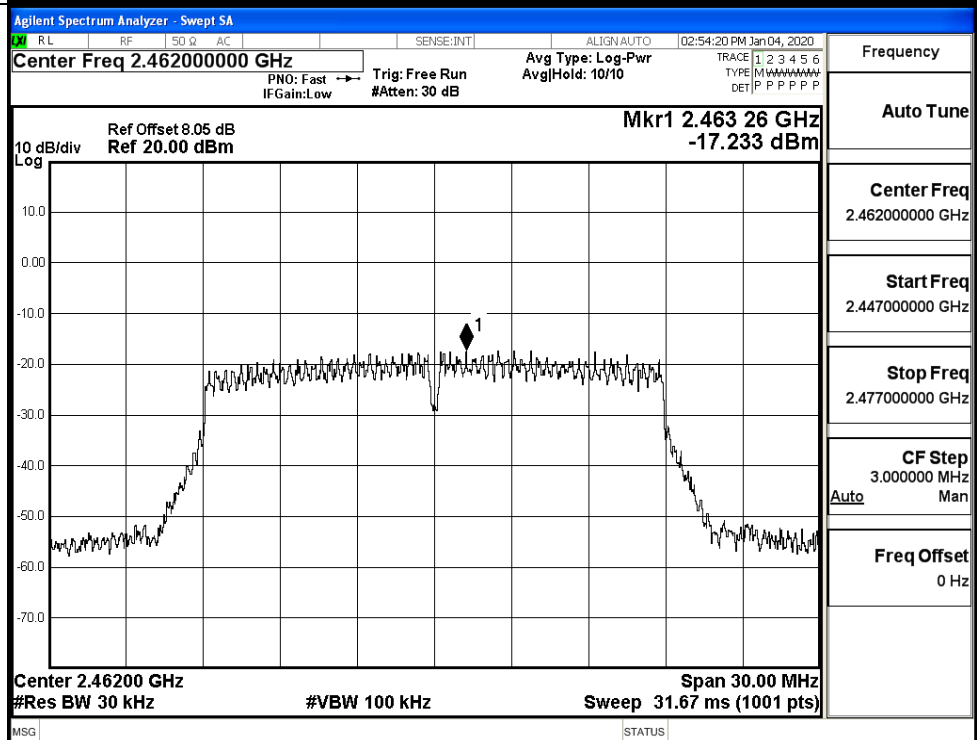
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

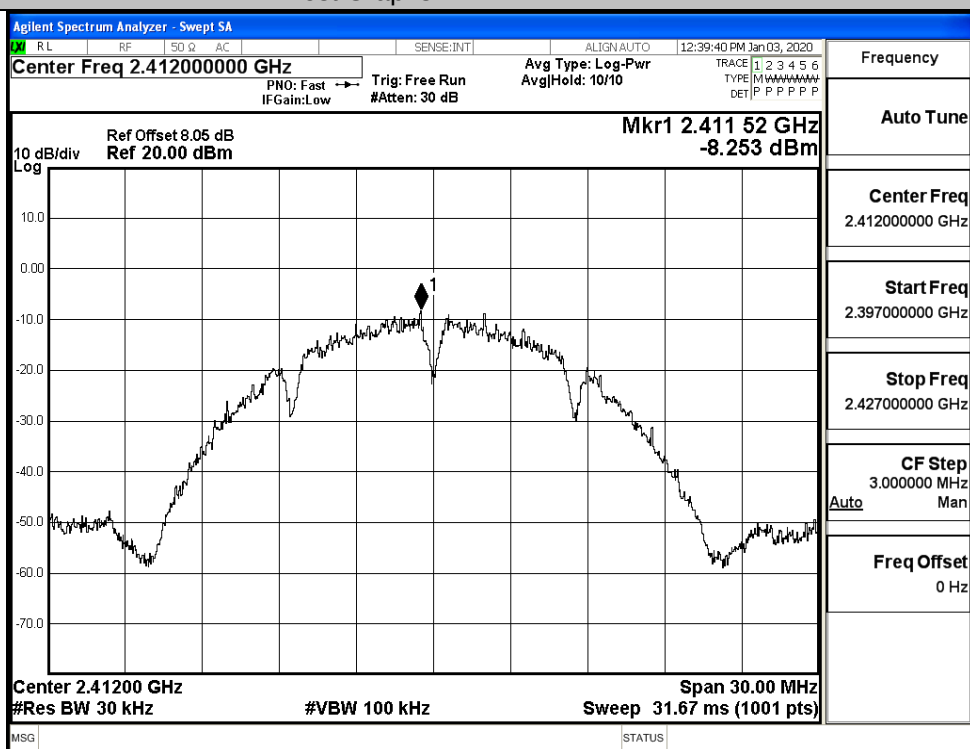


Ant1

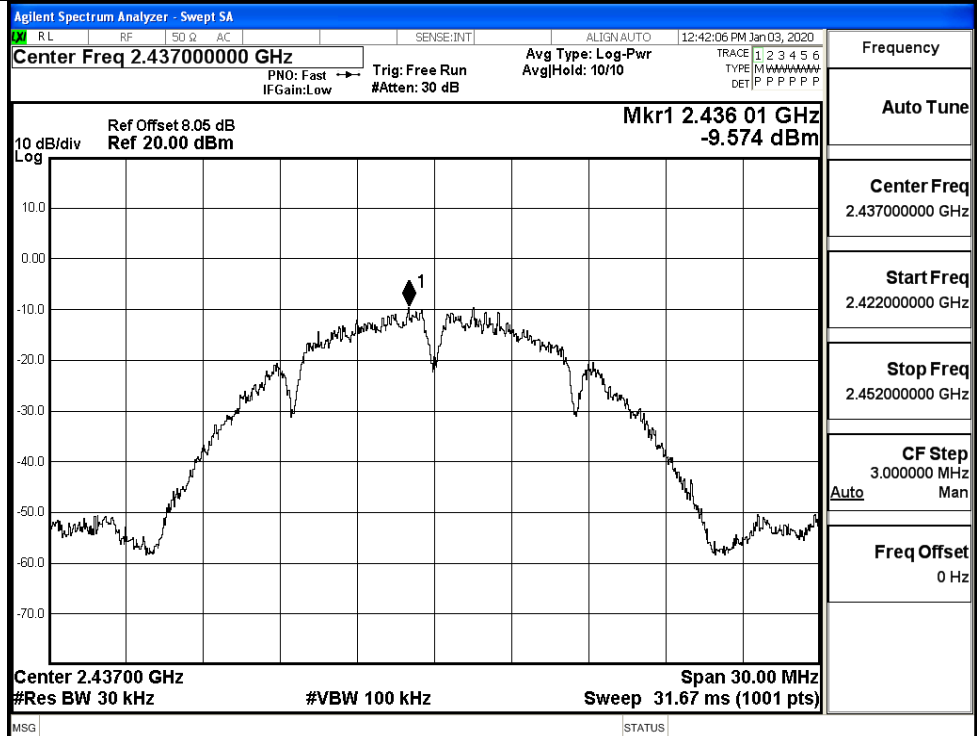
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-8.253	8	PASS
	MCH	-9.574	8	PASS
	HCH	-8.564	8	PASS
11G	LCH	-15.840	8	PASS
	MCH	-18.237	8	PASS
	HCH	-17.098	8	PASS
11N20SISO	LCH	-18.879	8	PASS
	MCH	-17.972	8	PASS
	HCH	-17.422	8	PASS

Test Graphs

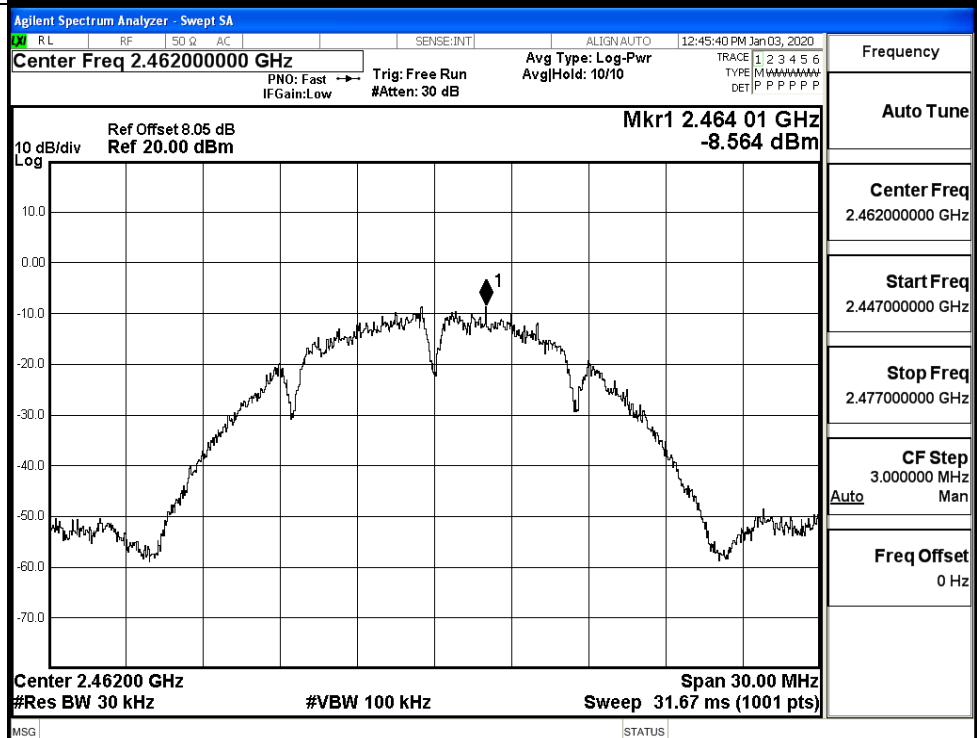
11B/LCH



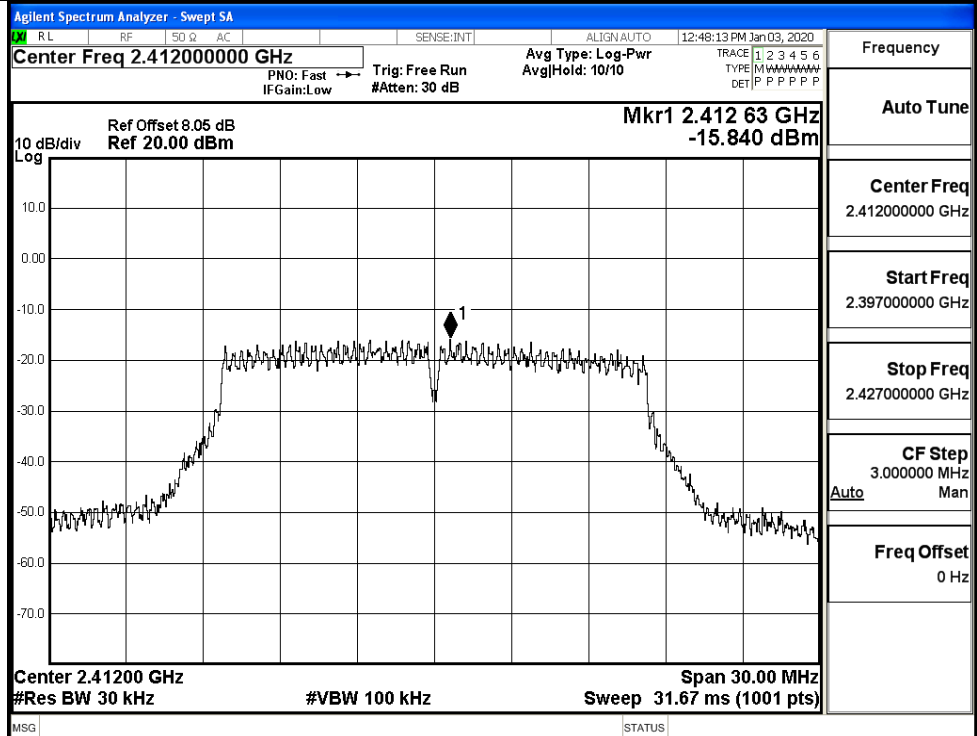
11B/MCH



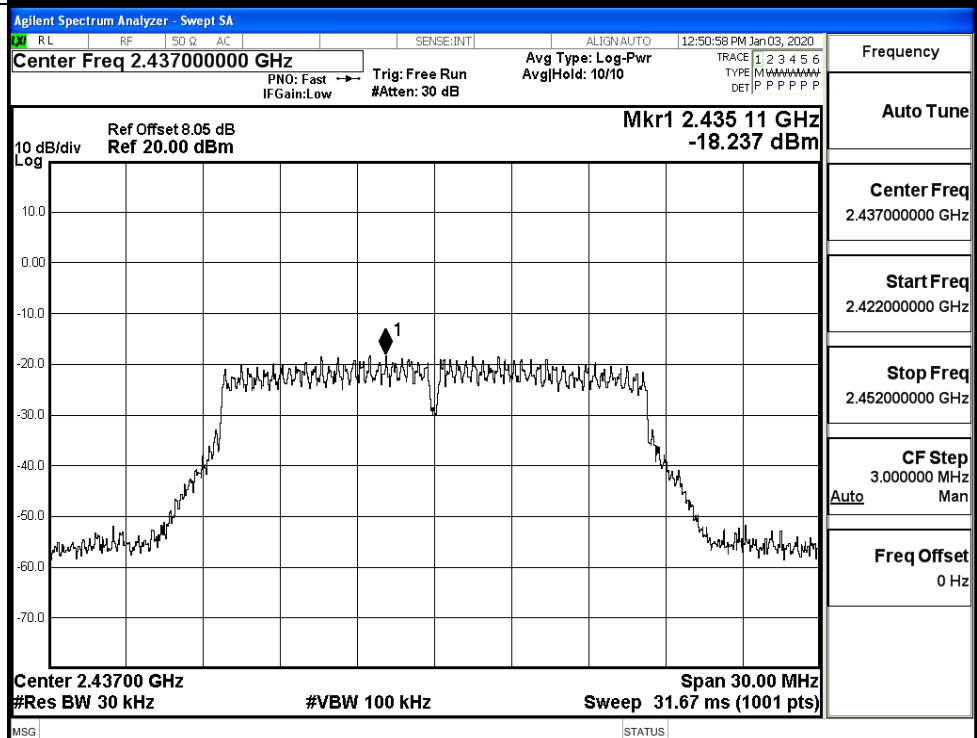
11B/HCH



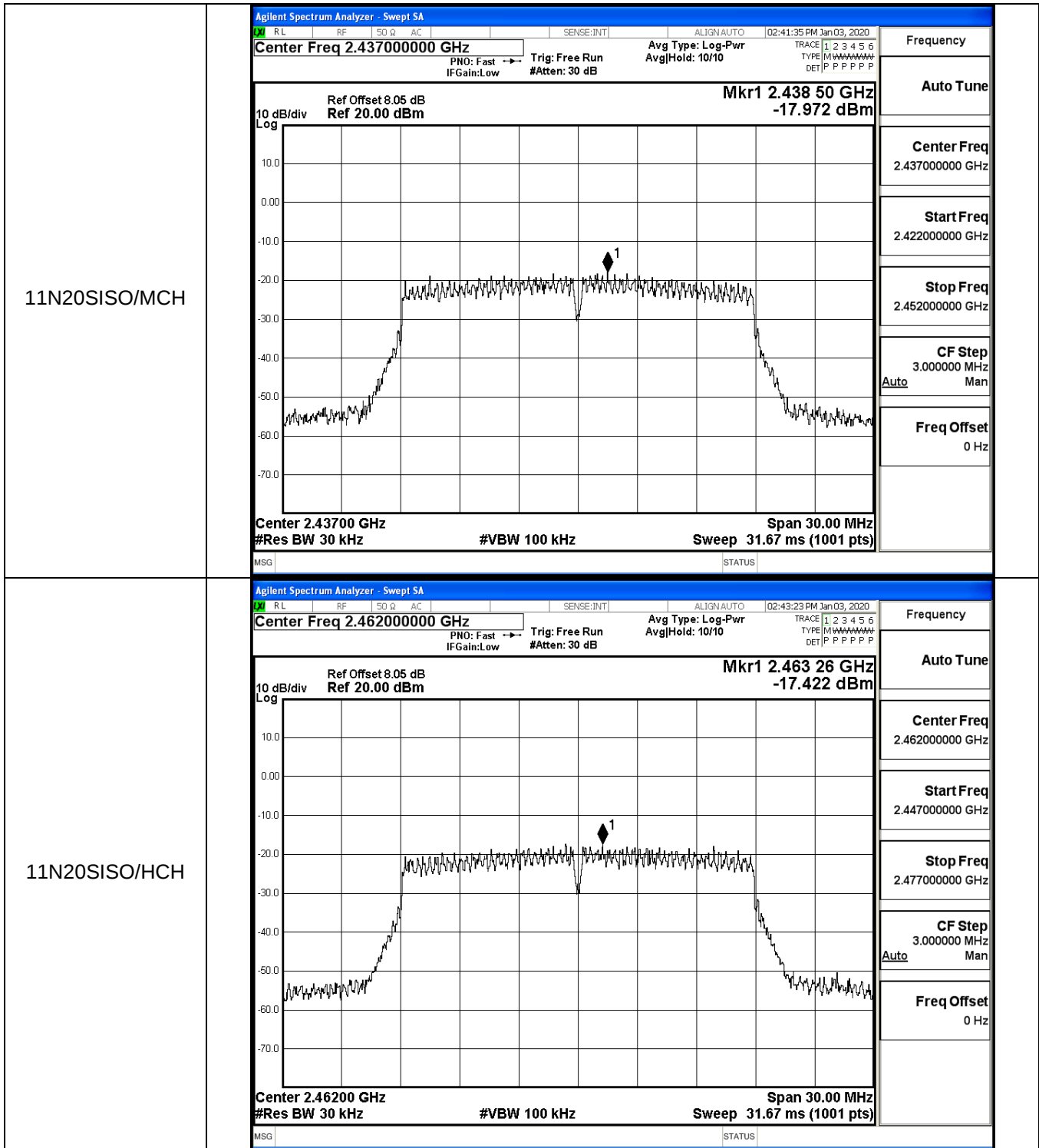
11G/LCH



11G/MCH



Page 25 of 79



Ant0+1

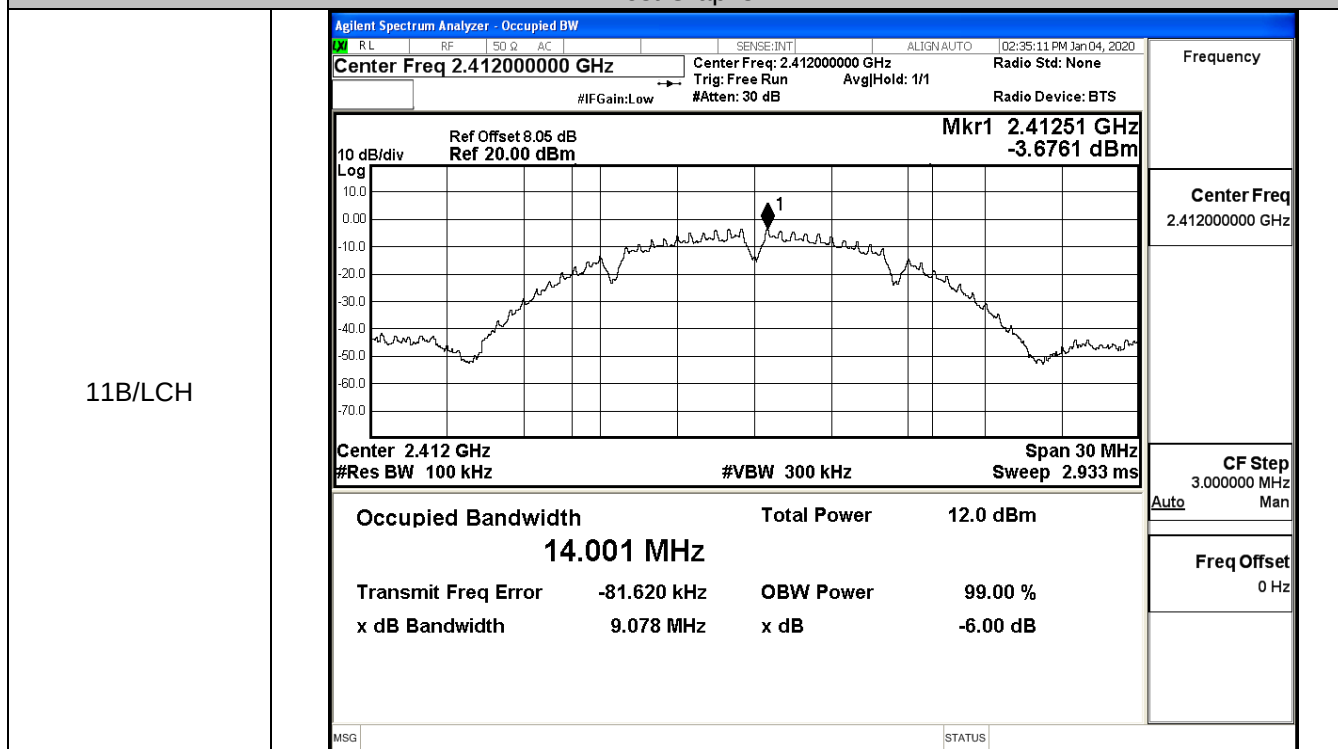
Mode	Channel	ANT 0 [dBm/30KHz]	ANT 1 [dBm/30KHz]	ANT 0+1 [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11N20SI SO	LCH	-16.921	-18.879	-14.78	8	PASS
	MCH	-17.682	-17.972	-14.81	8	PASS
	HCH	-17.233	-17.422	-14.32	8	PASS

C.4 6dB Bandwidth

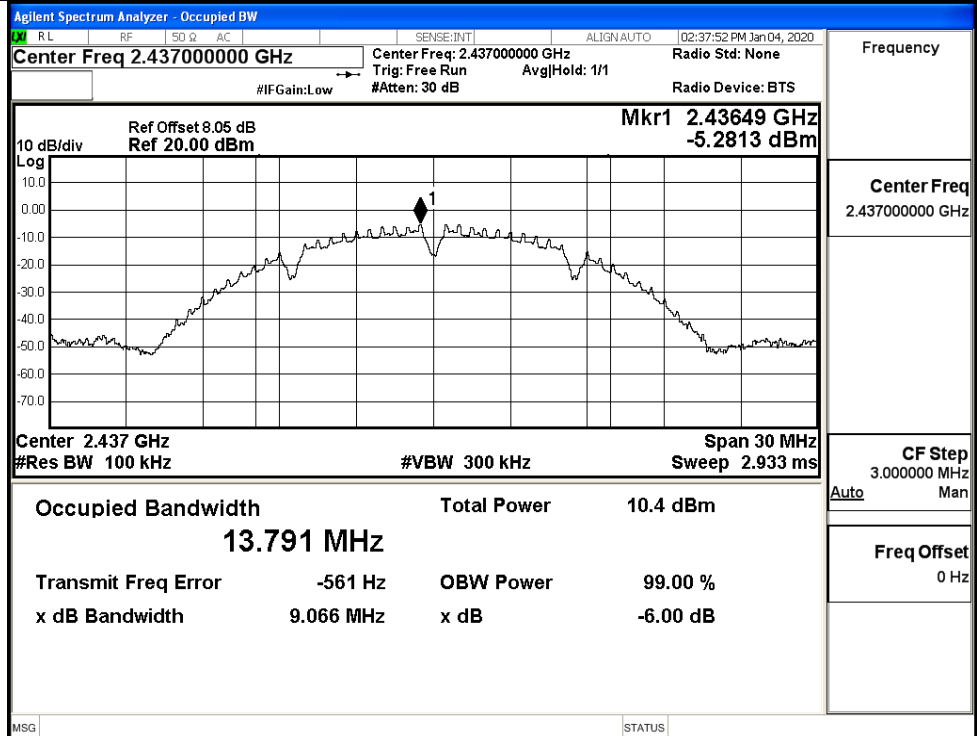
Ant0

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.078	≥ 0.5	PASS
	MCH	9.066	≥ 0.5	PASS
	HCH	9.088	≥ 0.5	PASS
11G	LCH	16.48	≥ 0.5	PASS
	MCH	16.44	≥ 0.5	PASS
	HCH	16.44	≥ 0.5	PASS
11N20SISO	LCH	17.75	≥ 0.5	PASS
	MCH	17.74	≥ 0.5	PASS
	HCH	17.74	≥ 0.5	PASS

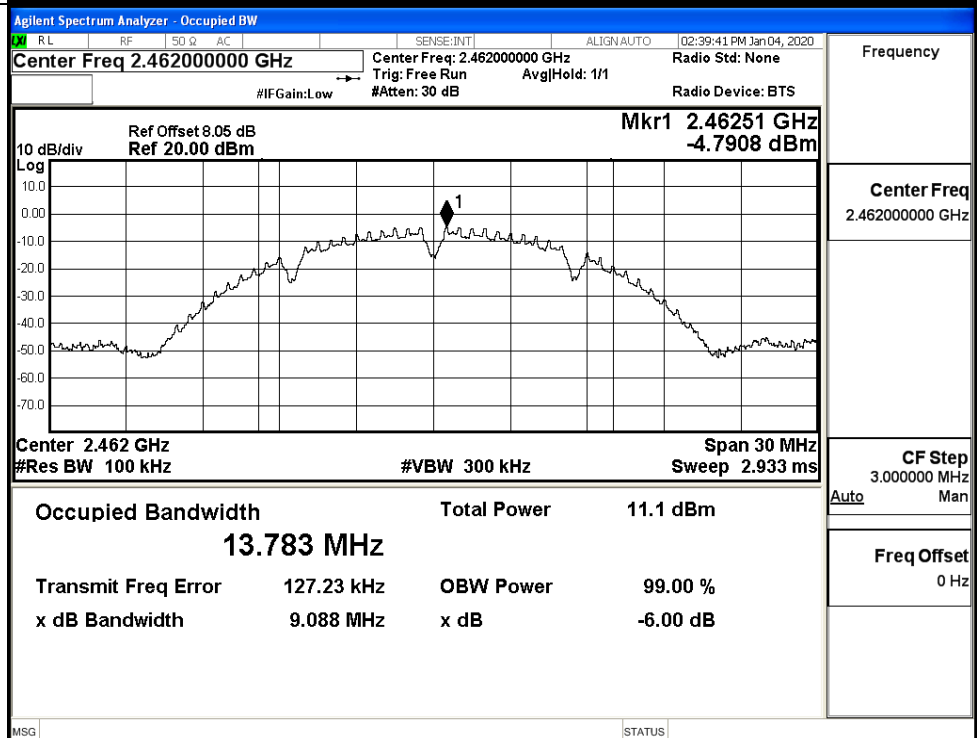
Test Graphs



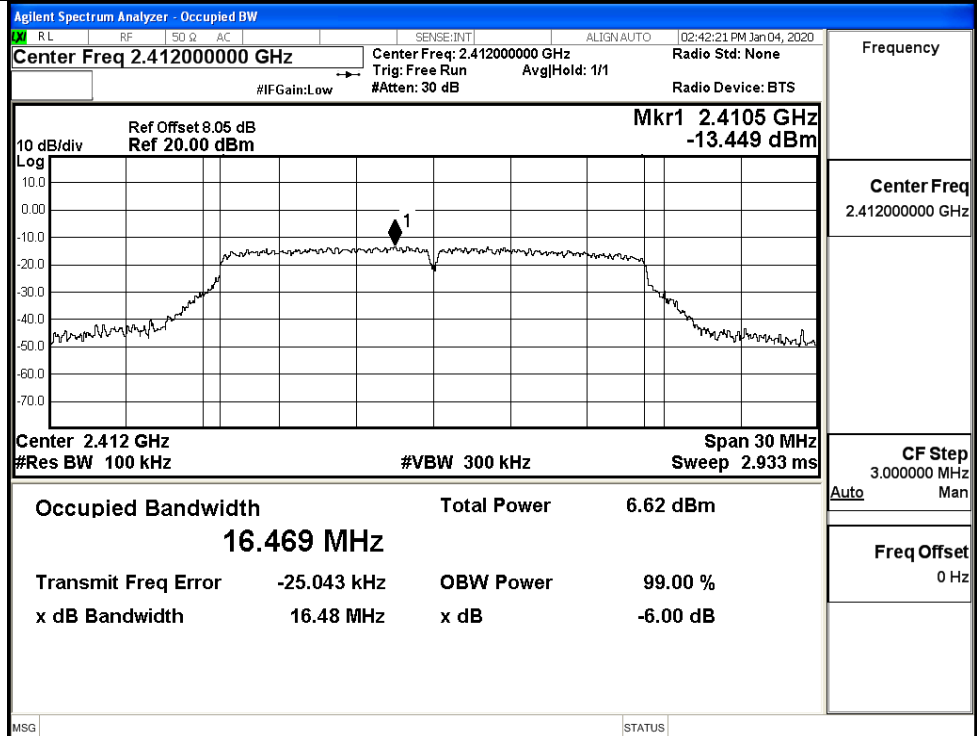
11B/MCH



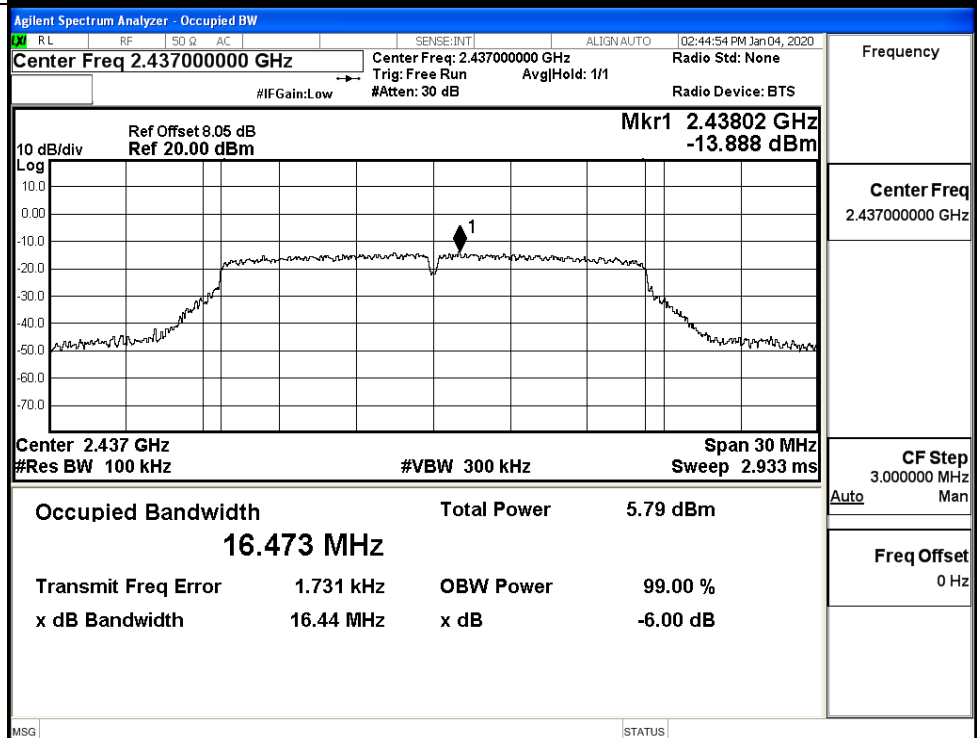
11B/HCH



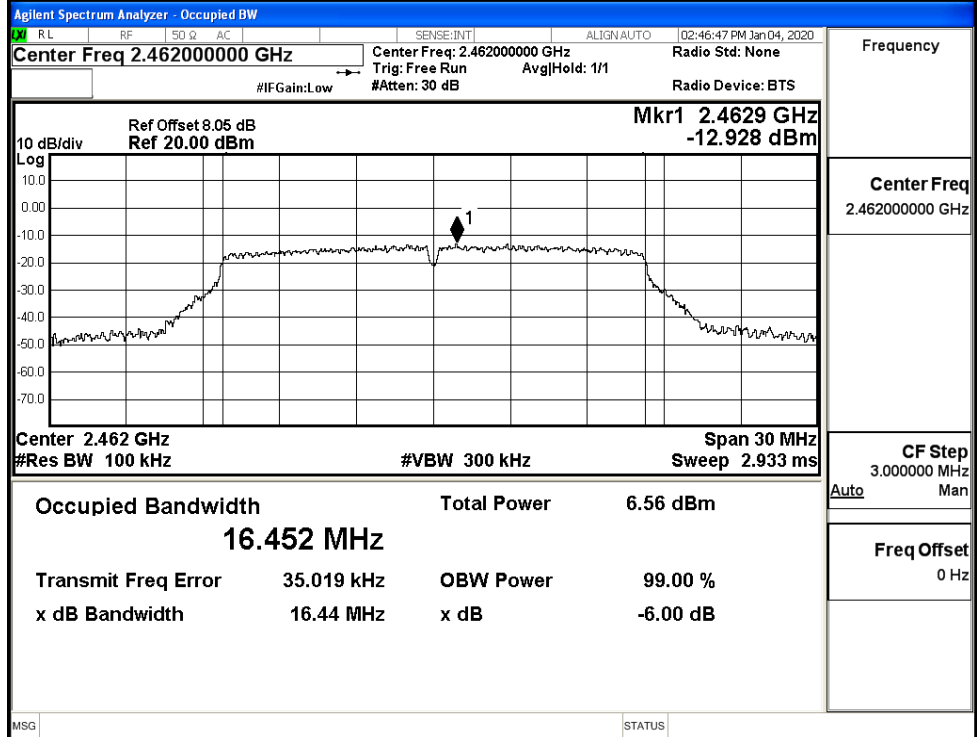
11G/LCH



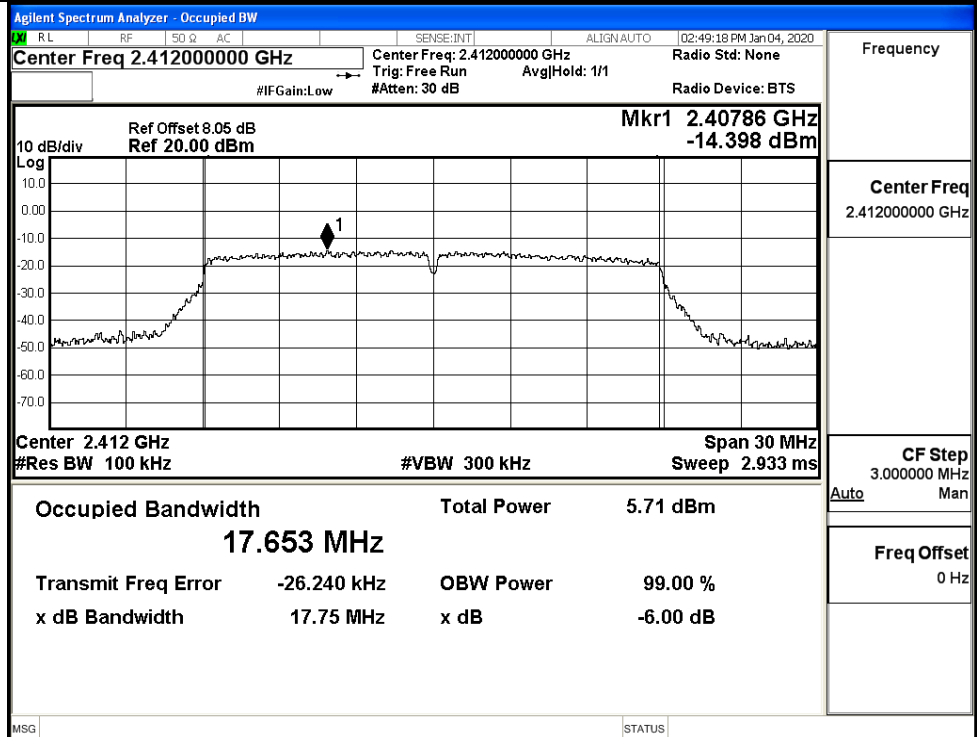
11G/MCH



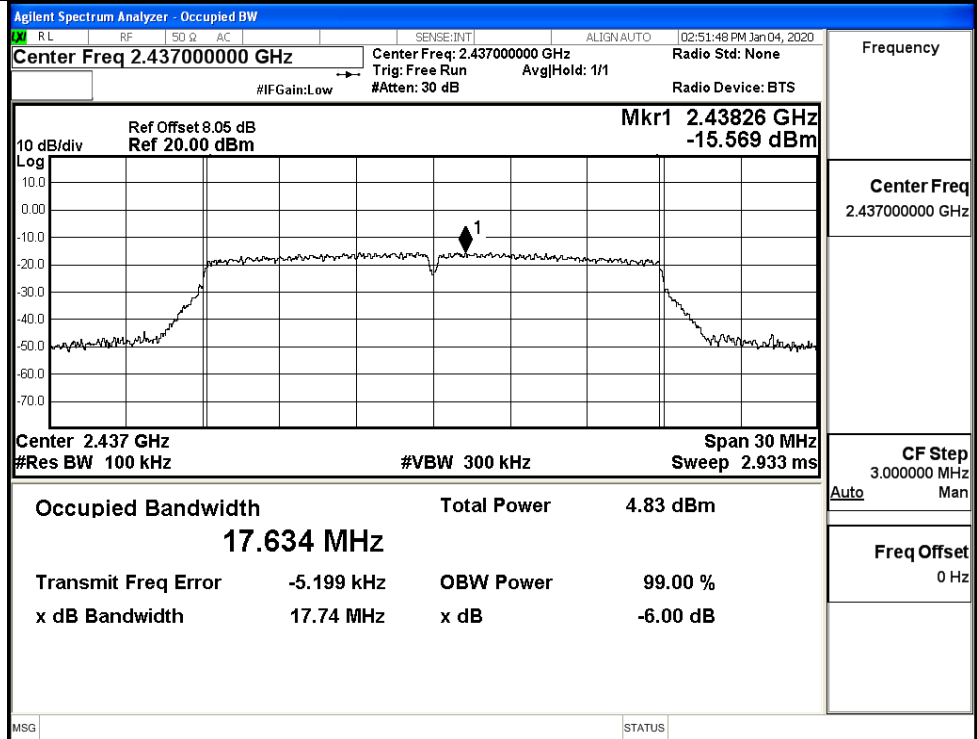
11G/HCH



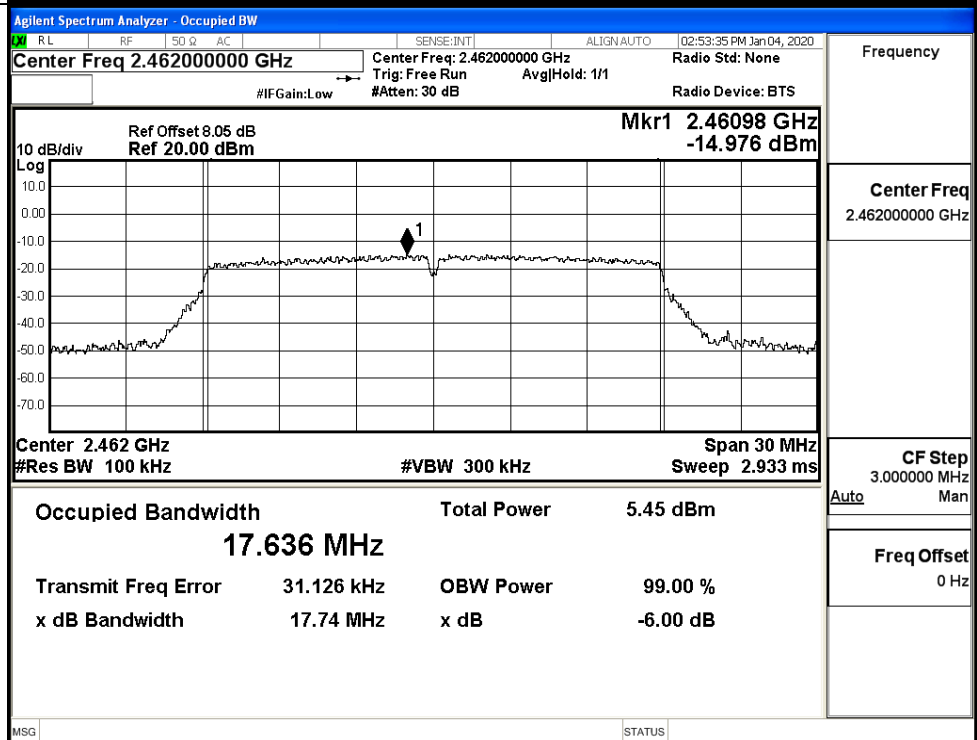
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

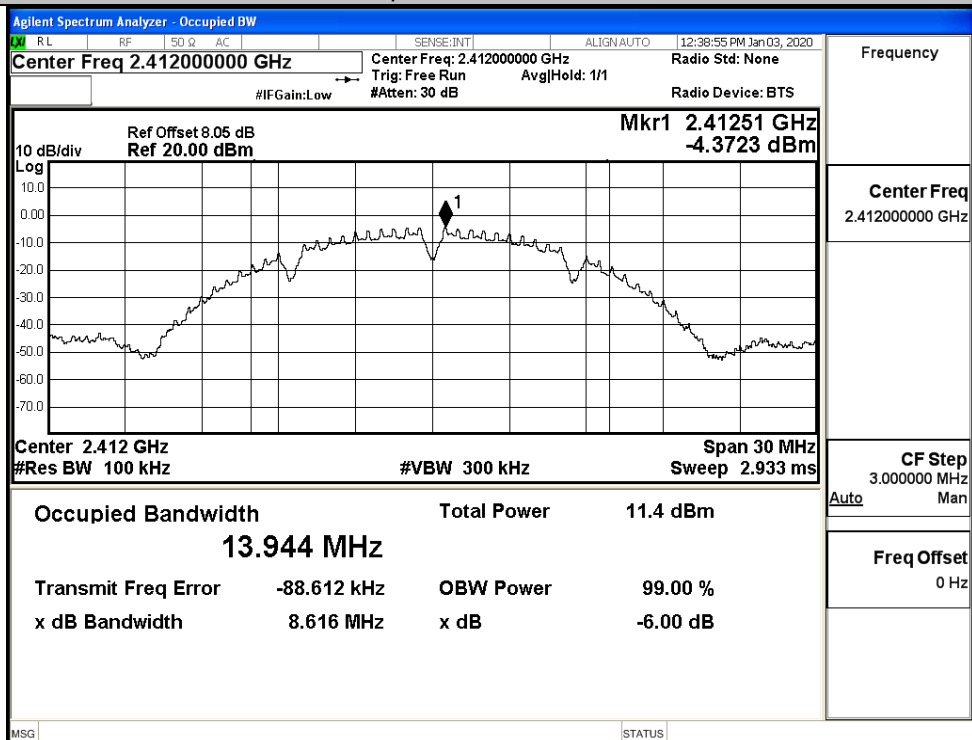


Ant1

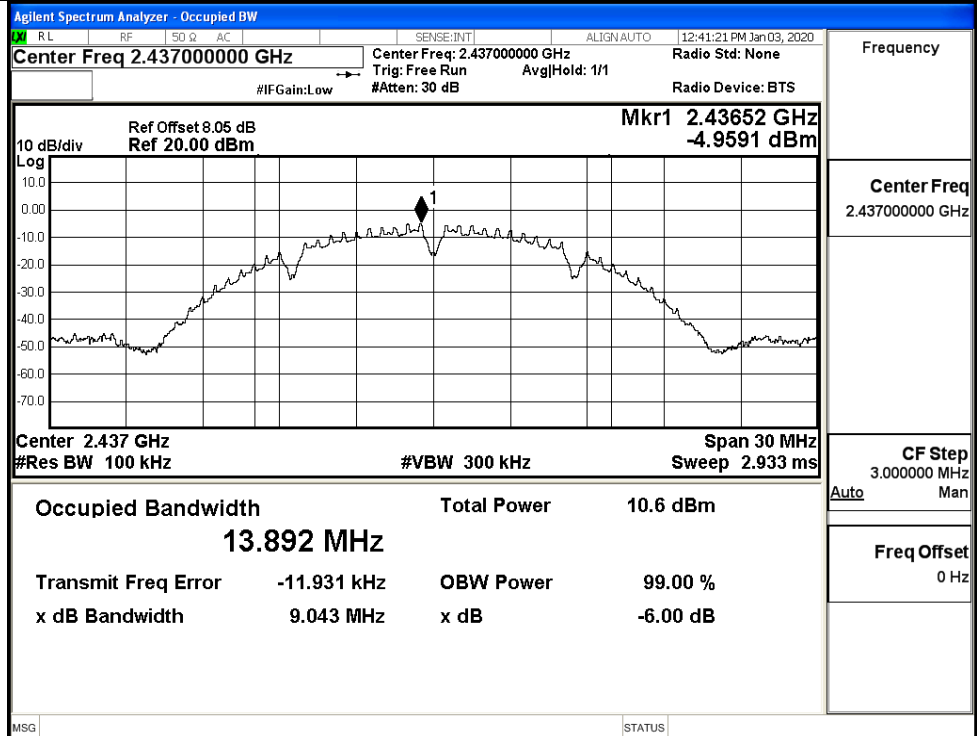
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.616	≥ 0.5	PASS
	MCH	9.043	≥ 0.5	PASS
	HCH	9.080	≥ 0.5	PASS
11G	LCH	16.48	≥ 0.5	PASS
	MCH	16.44	≥ 0.5	PASS
	HCH	16.48	≥ 0.5	PASS
11N20SISO	LCH	17.72	≥ 0.5	PASS
	MCH	17.70	≥ 0.5	PASS
	HCH	17.71	≥ 0.5	PASS

Test Graphs

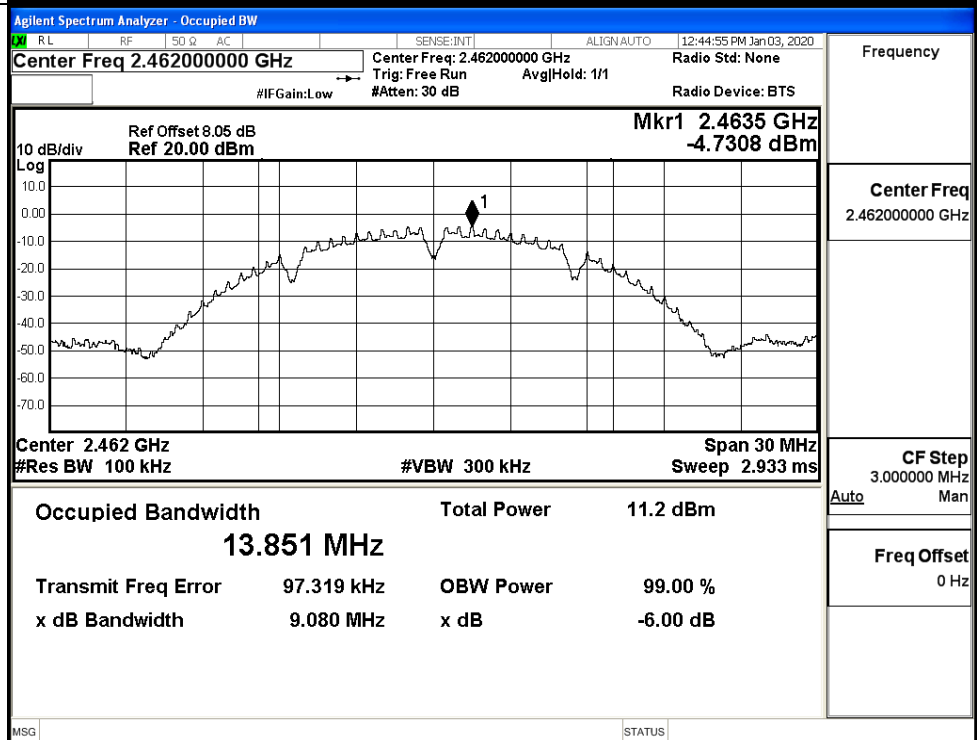
11B/LCH



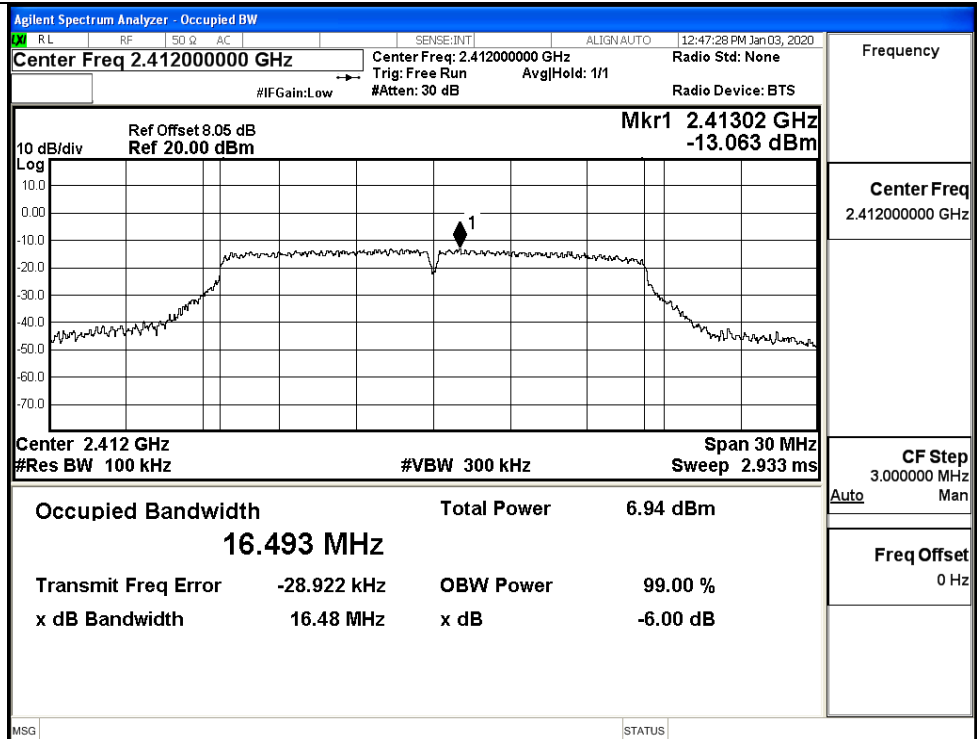
11B/MCH



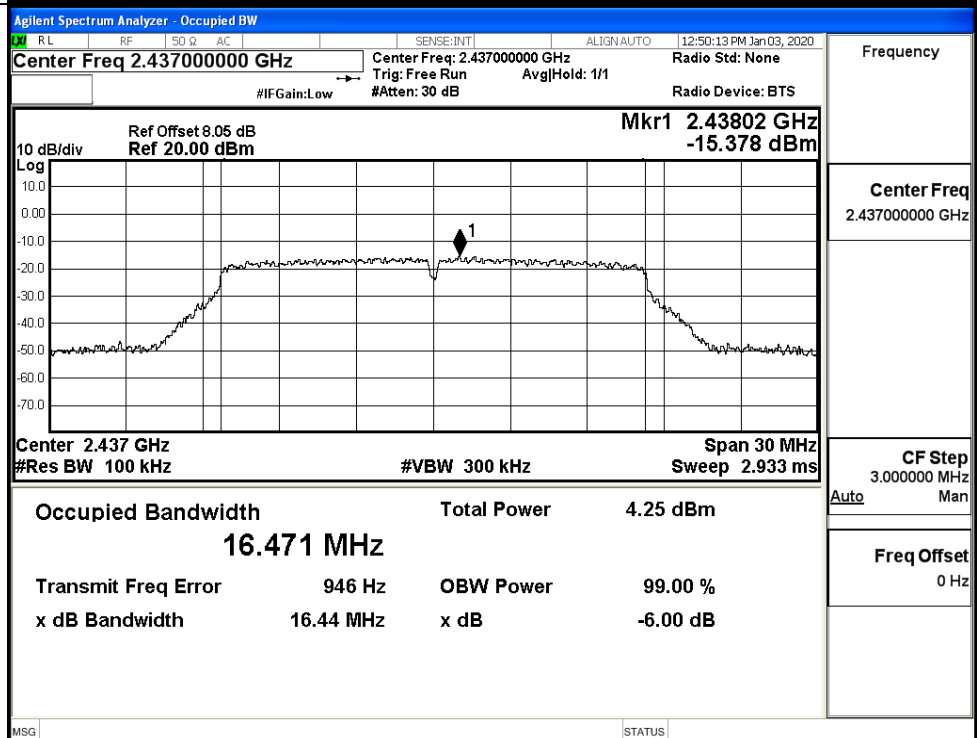
11B/HCH



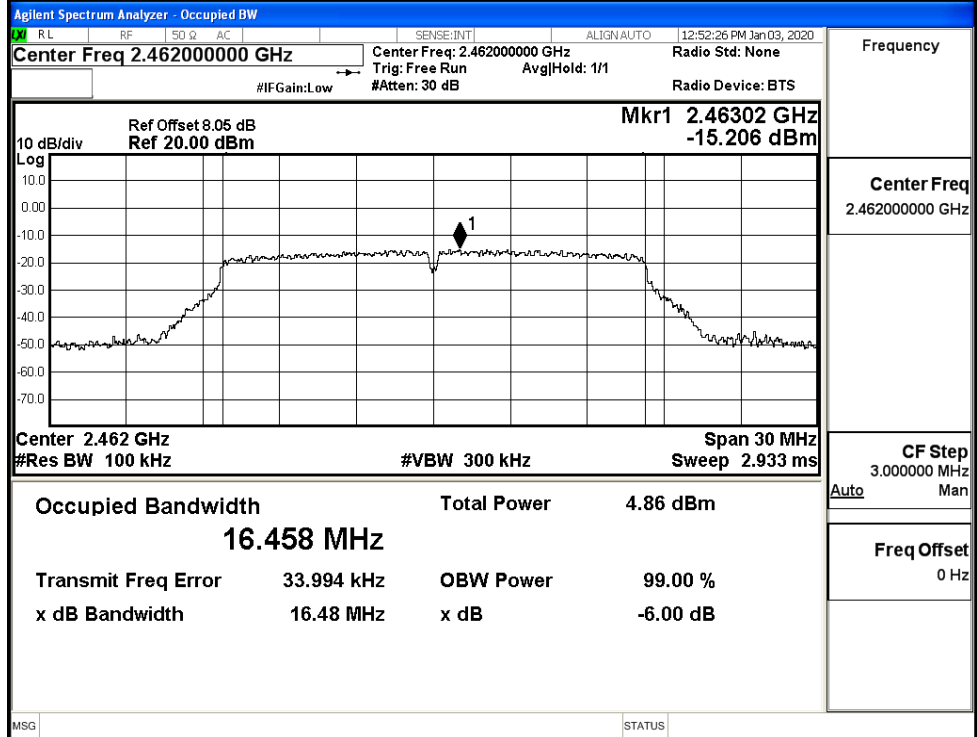
11G/LCH



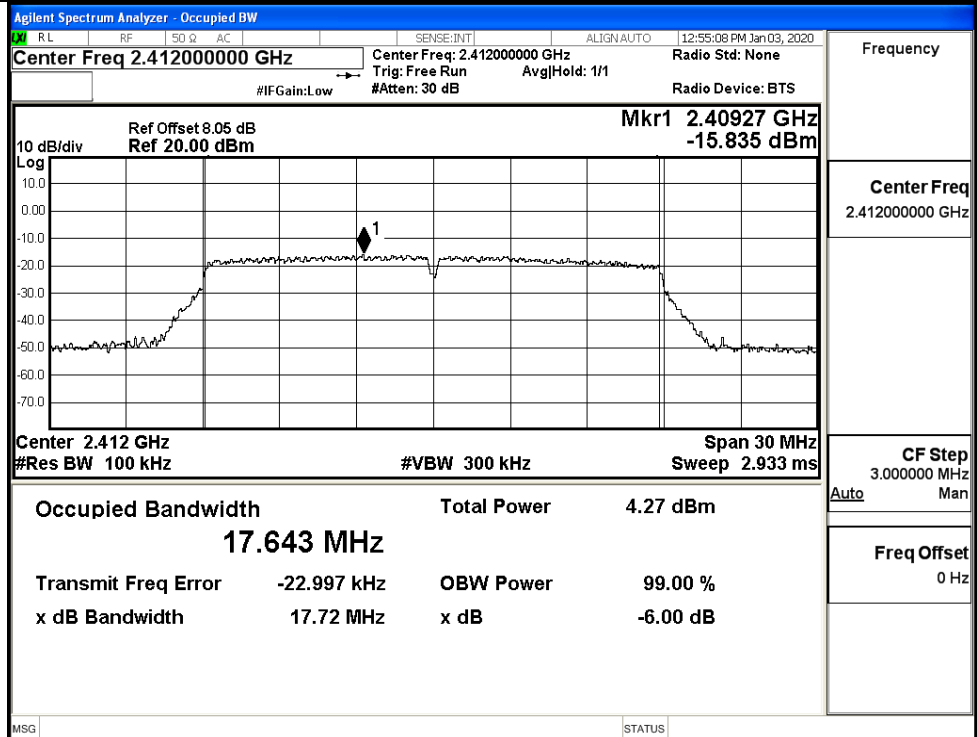
11G/MCH



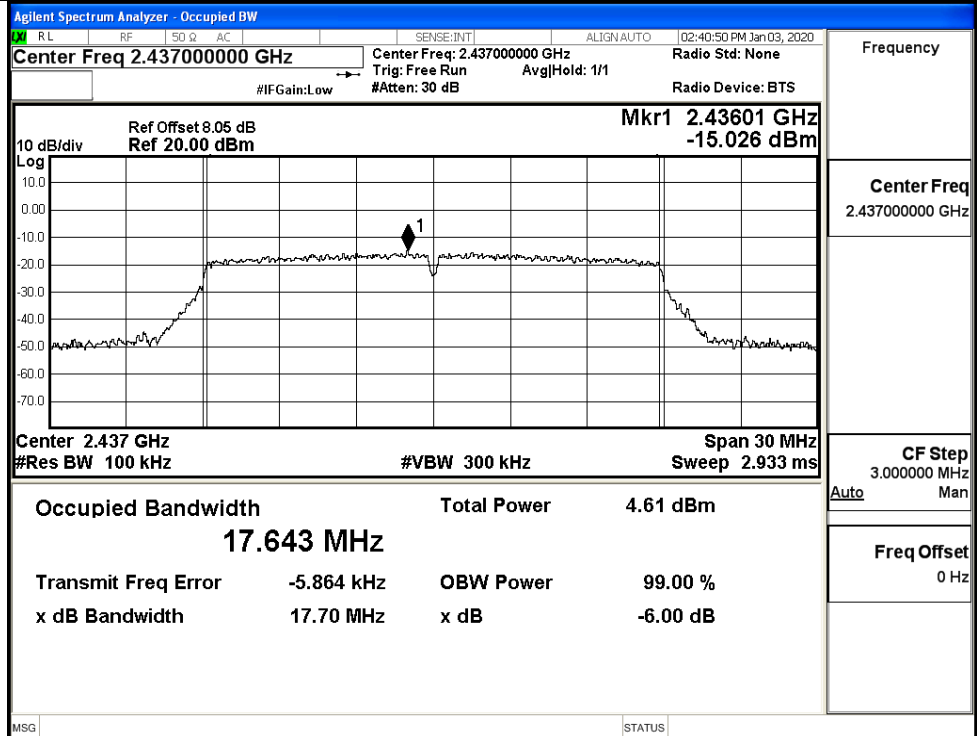
11G/HCH



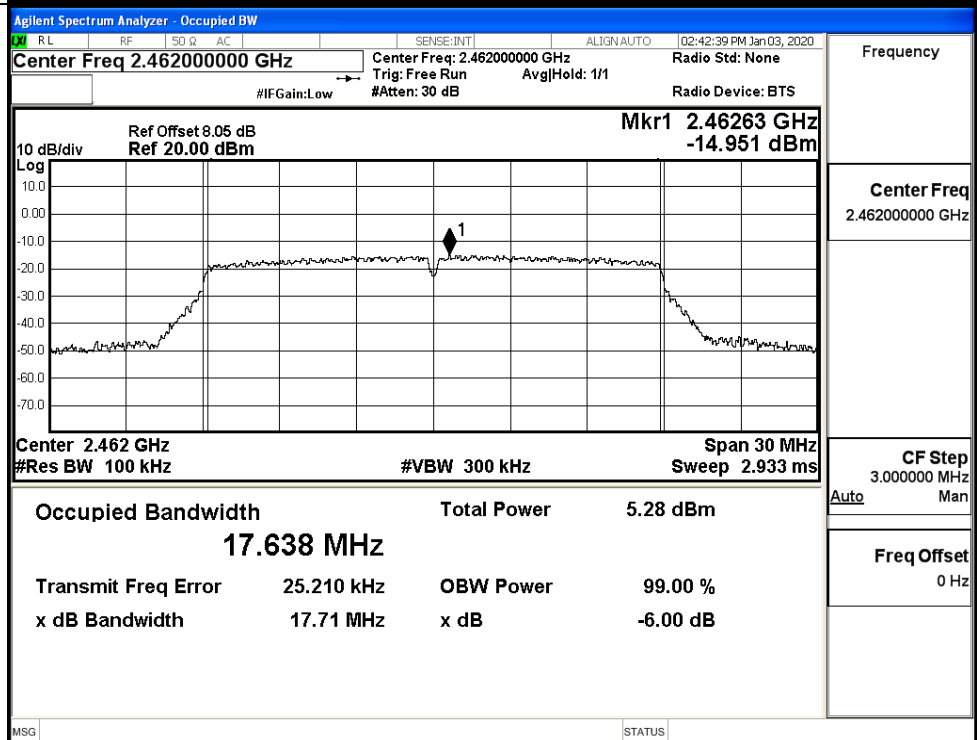
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH



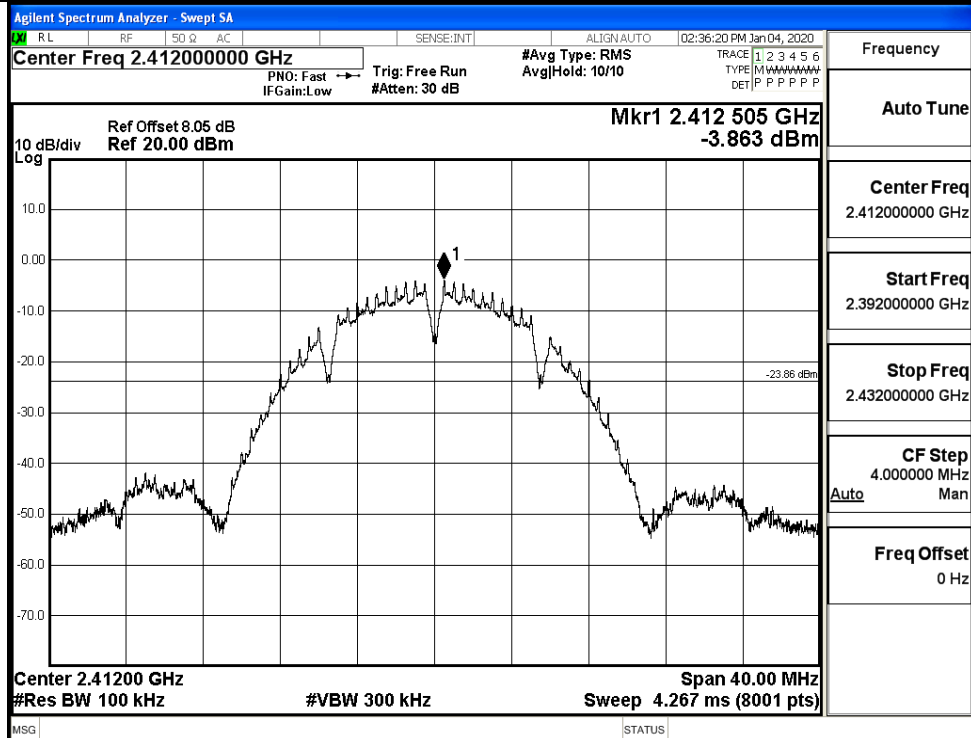
C.5 RF Conducted Spurious Emissions

Ant0

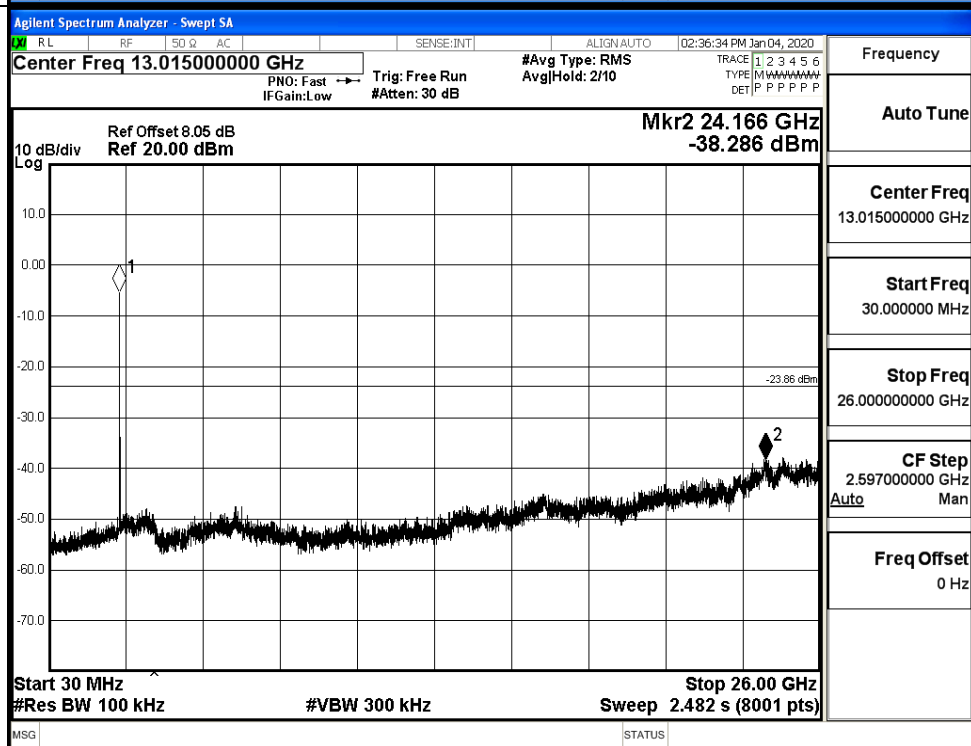
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.863	-38.286	-23.863	PASS
	MCH	-5.598	-37.724	-25.598	PASS
	HCH	-4.882	-38.122	-24.882	PASS
11G	LCH	-13.533	-36.650	-33.533	PASS
	MCH	-14.527	-38.177	-34.527	PASS
	HCH	-13.537	-37.974	-33.537	PASS
11N20 SISO	LCH	-14.234	-37.573	-34.234	PASS
	MCH	-15.796	-37.465	-35.796	PASS
	HCH	-14.666	-38.323	-34.666	PASS

11B LCH Graphs

Pref/11B/LCH

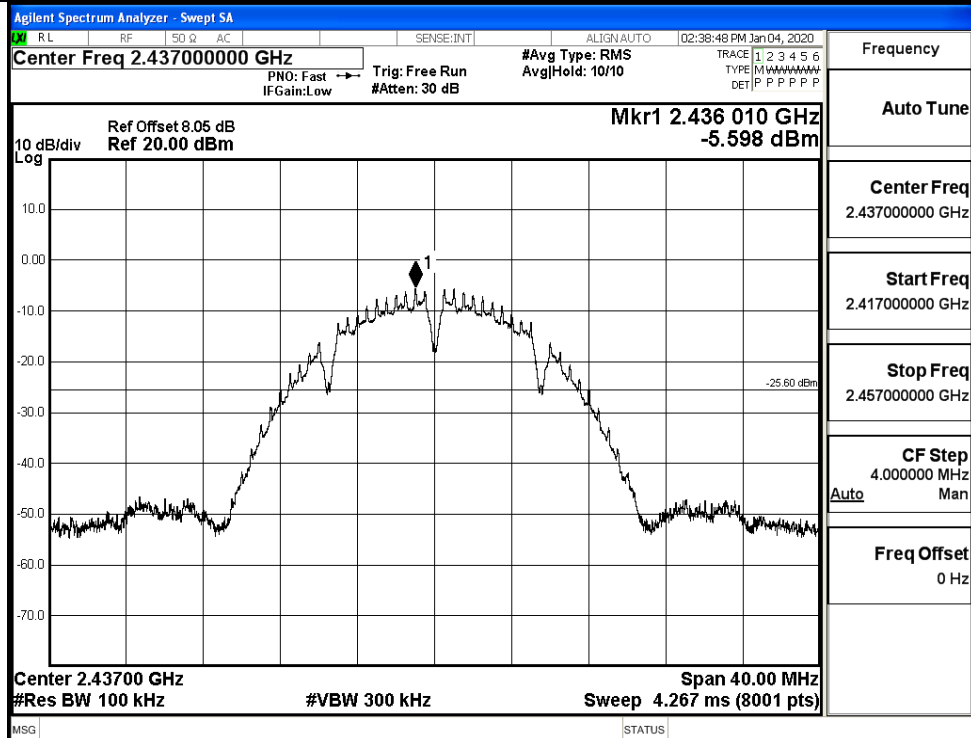


Puw/11B/LCH

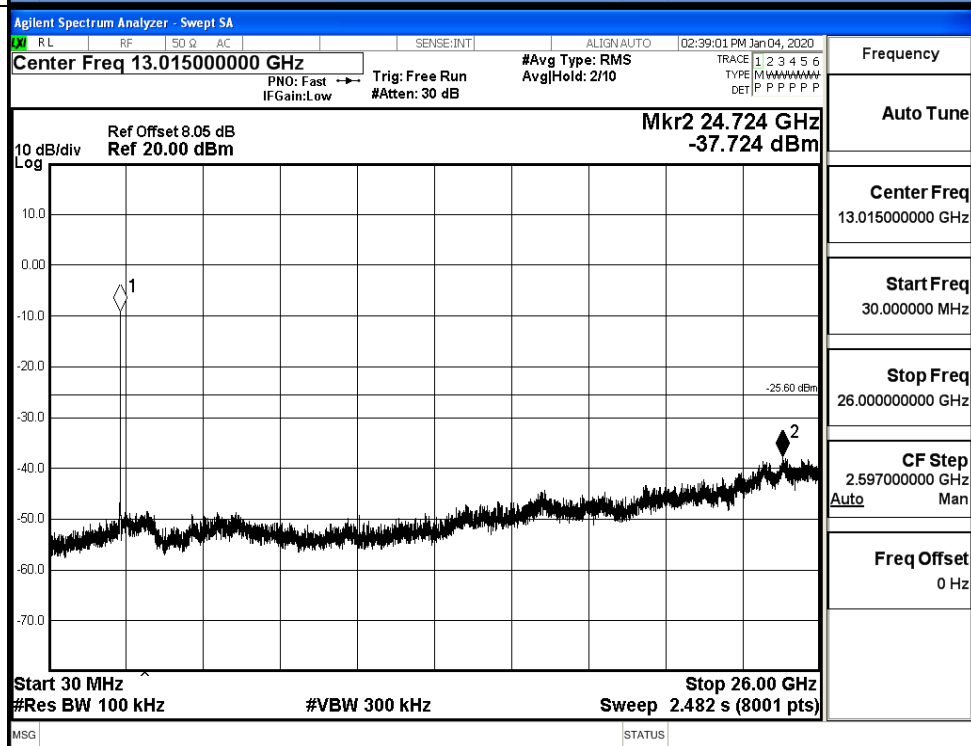


11B MCH Graphs

Pref/11B/MCH

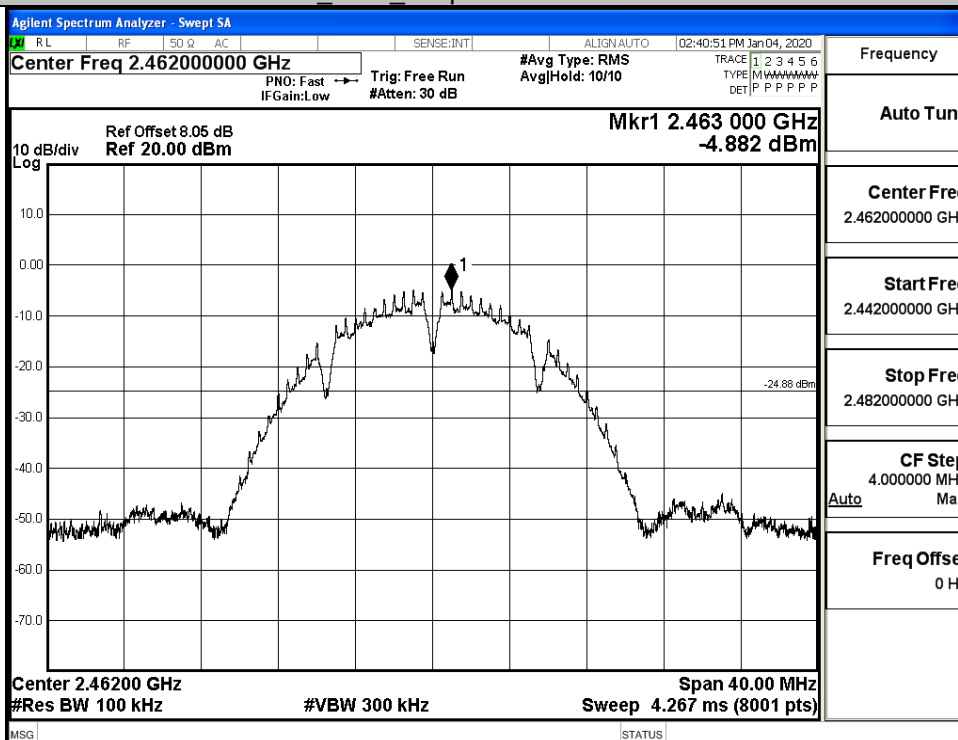


Puw/11B/MCH

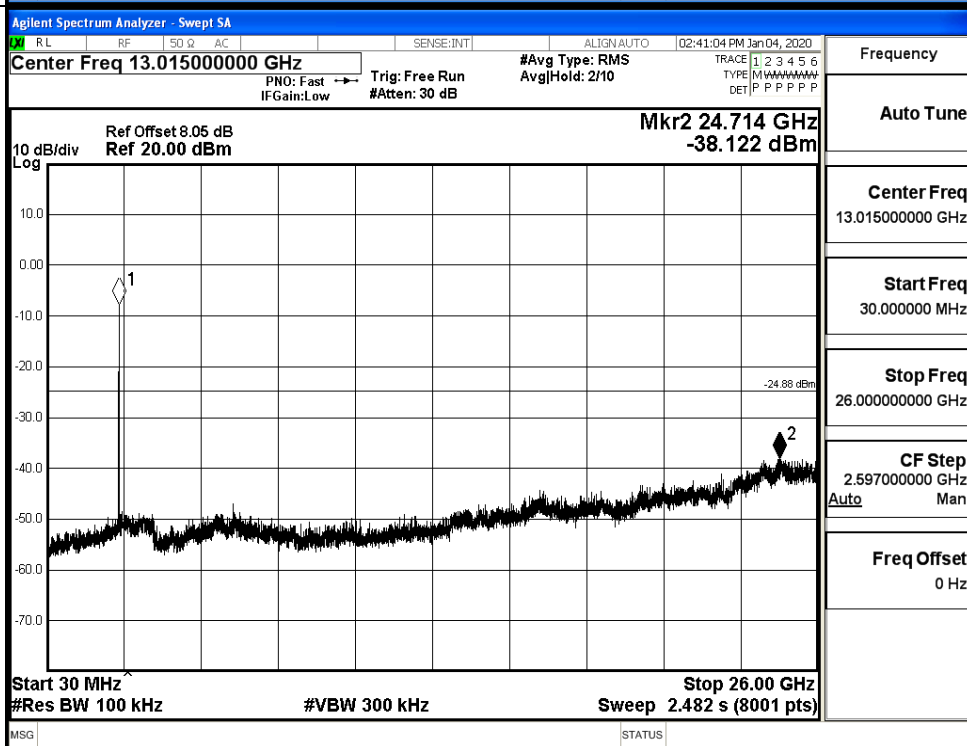


11B HCH Graphs

Pref/11B/HCH

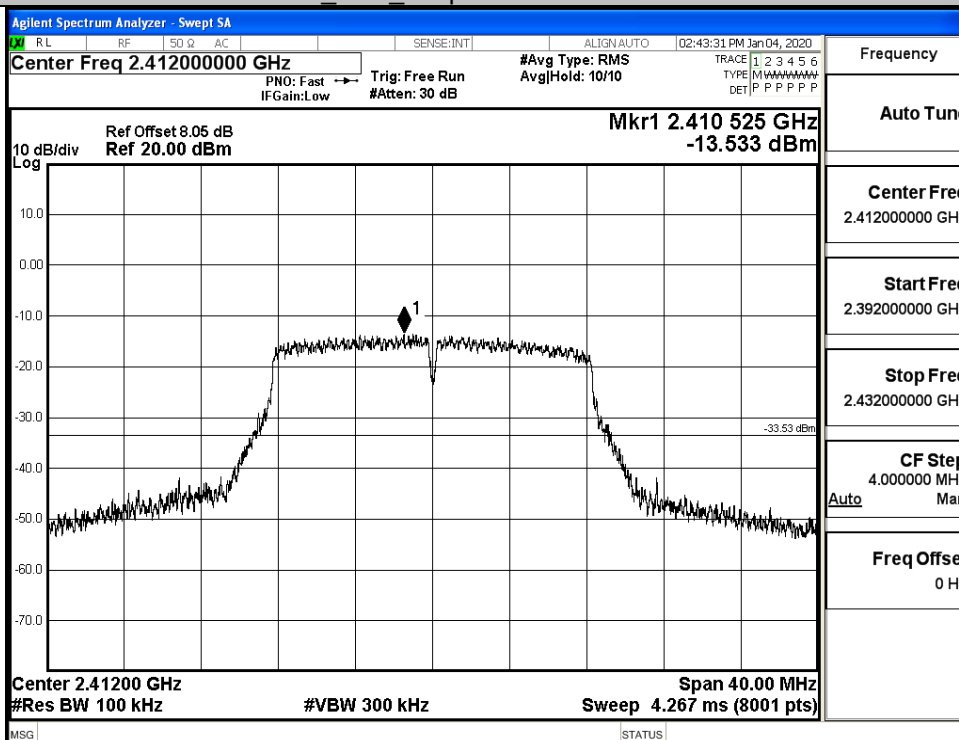


Puw/11B/HCH

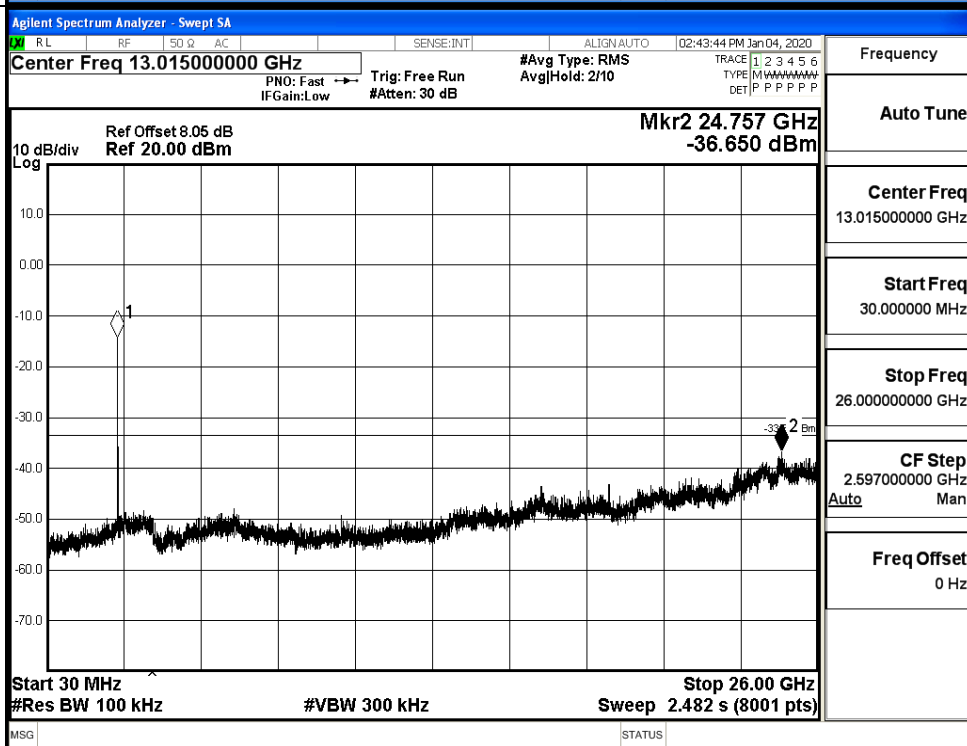


11G_LCH_Graphs

Pref/11G/LCH

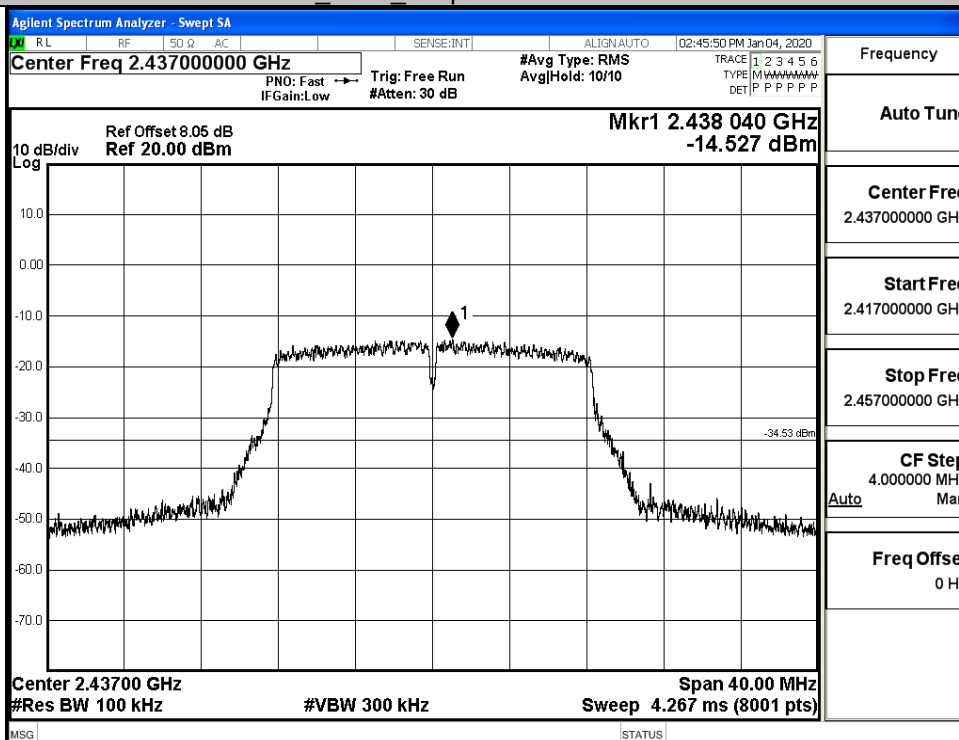


Puw/11G/LCH

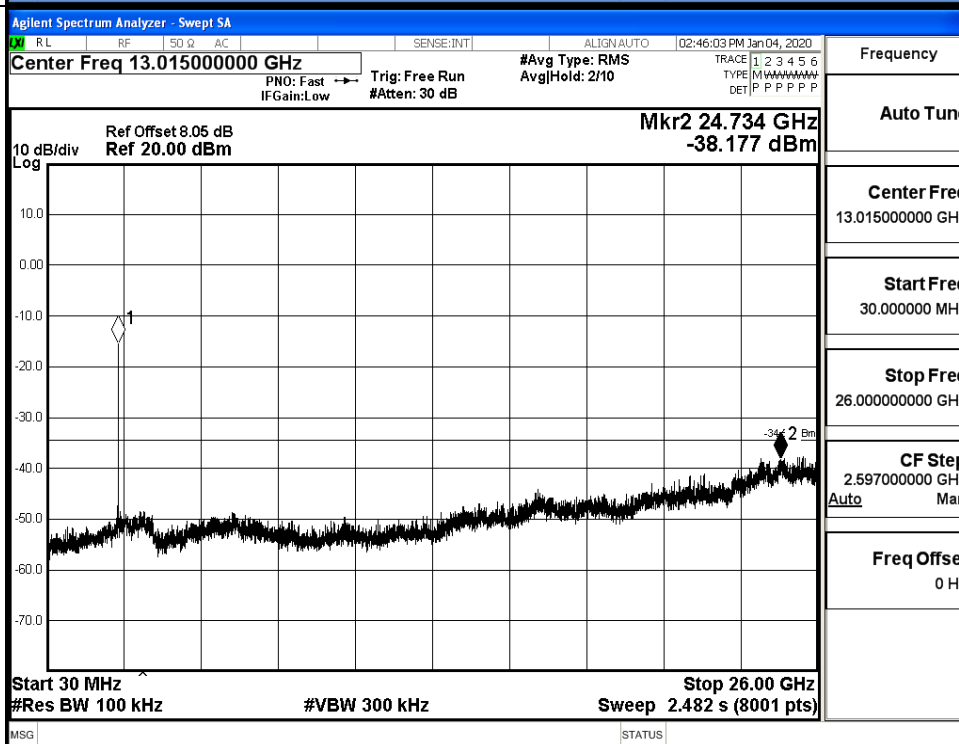


11G MCH Graphs

Pref/11G/MCH

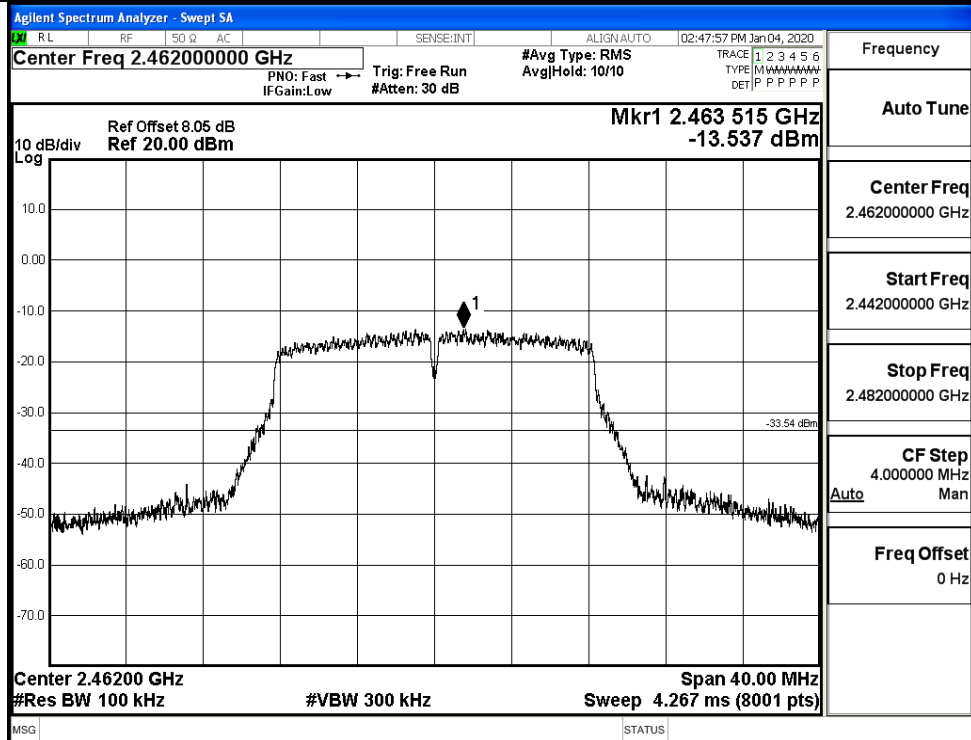


Puw/11G/MCH

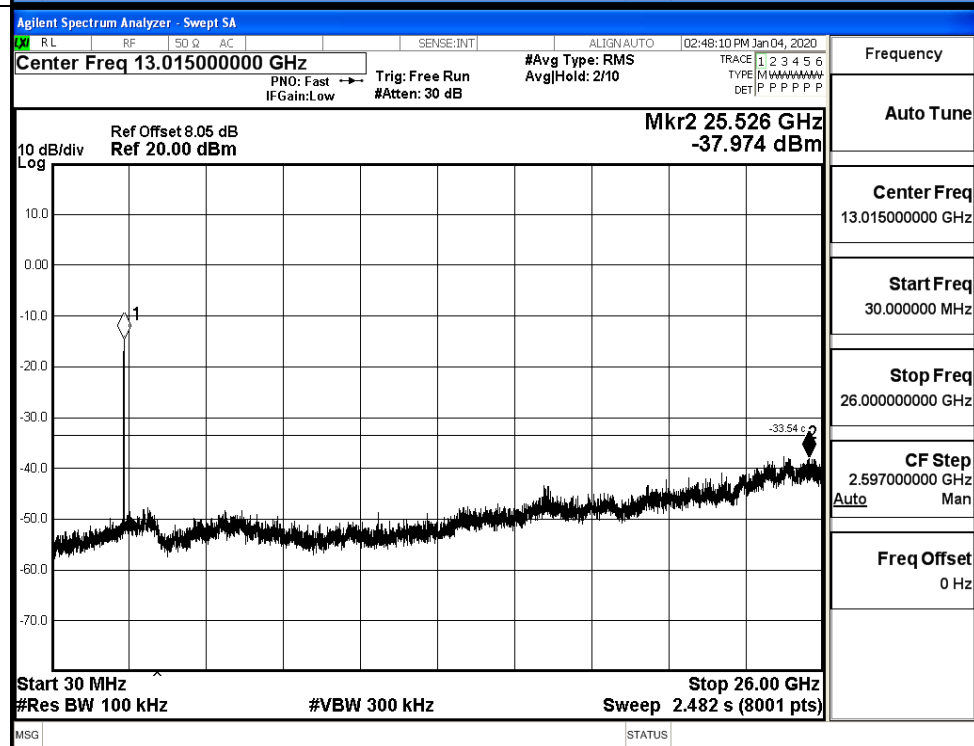


11G HCH Graphs

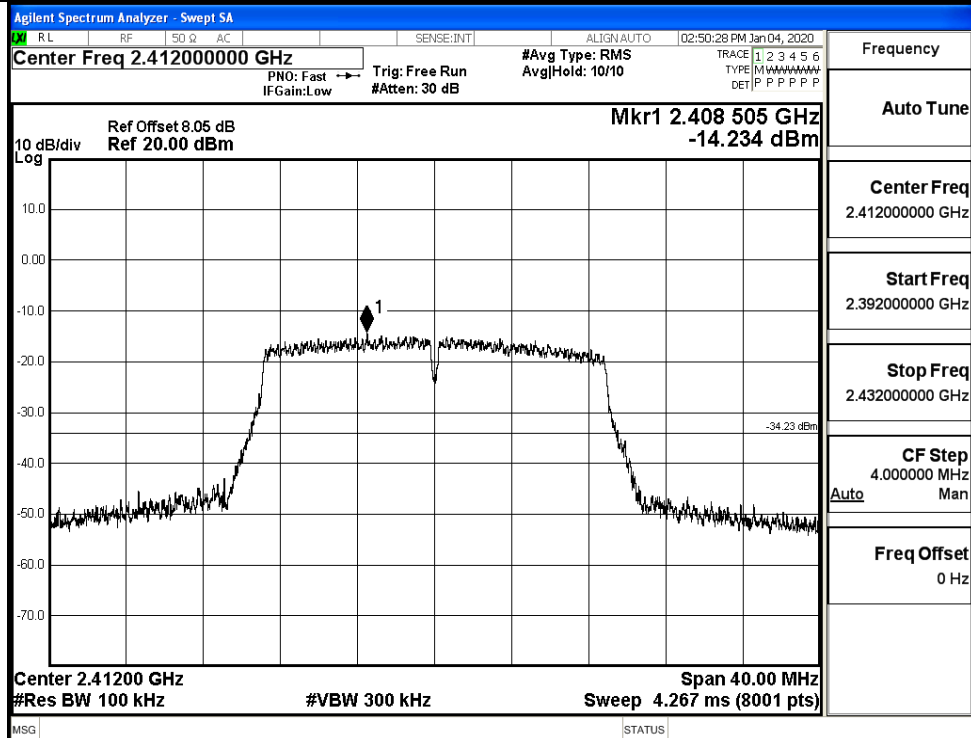
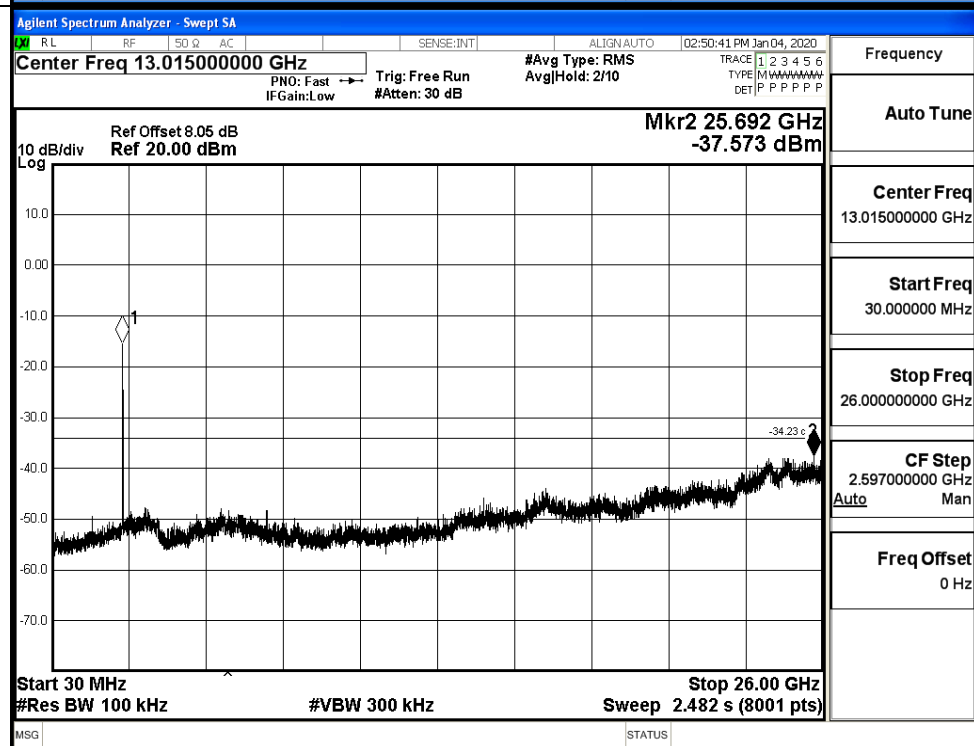
Pref/11G/HCH



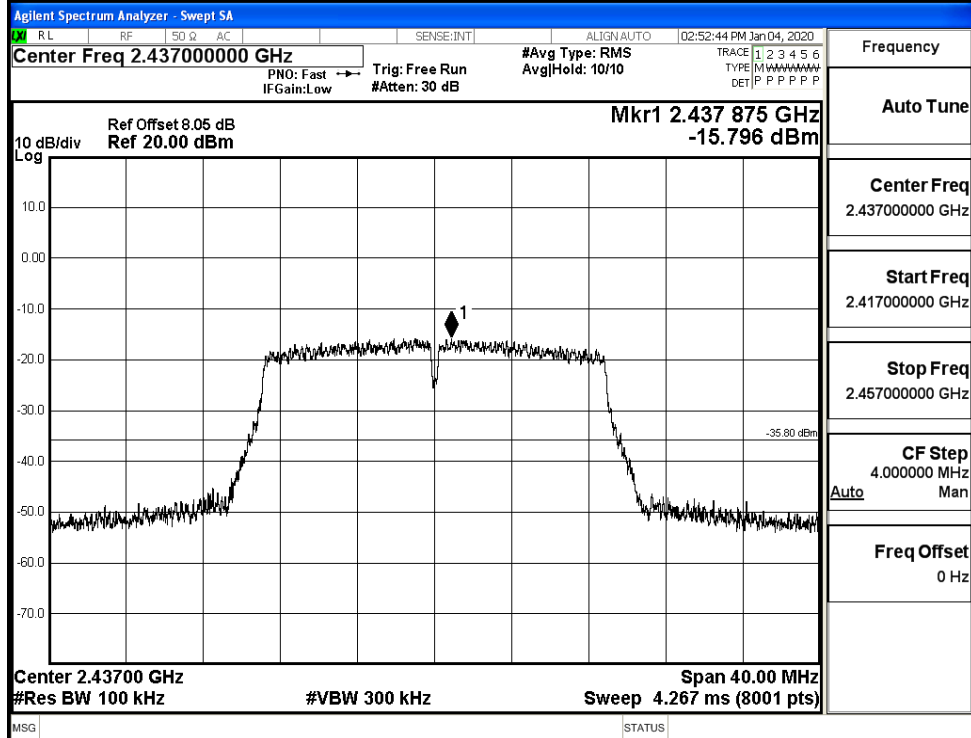
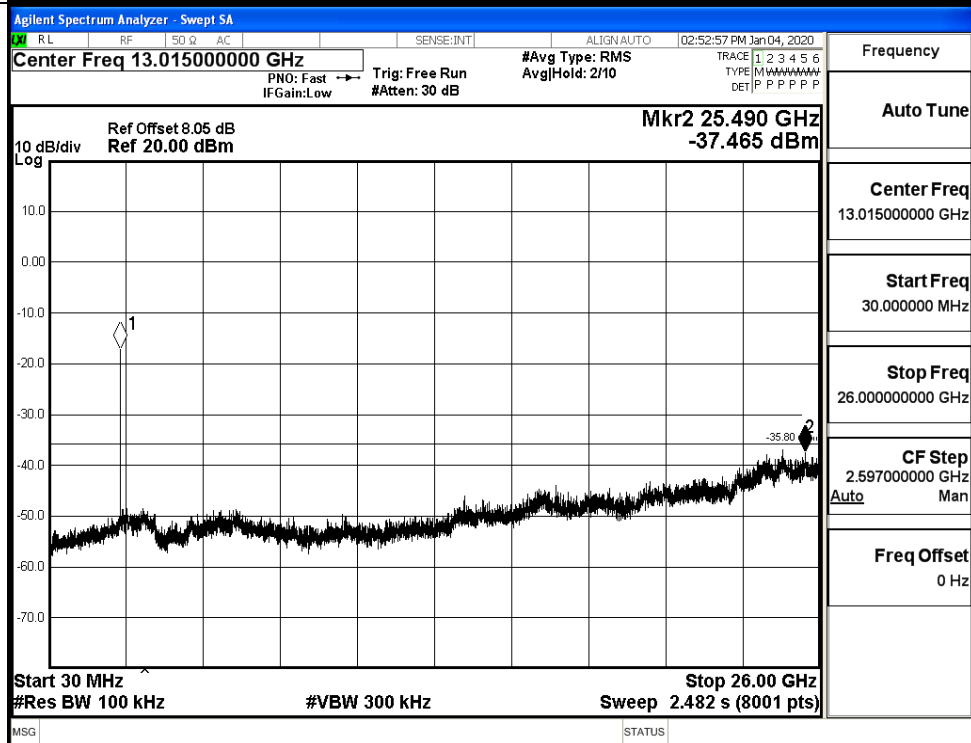
Puw/11G/HCH



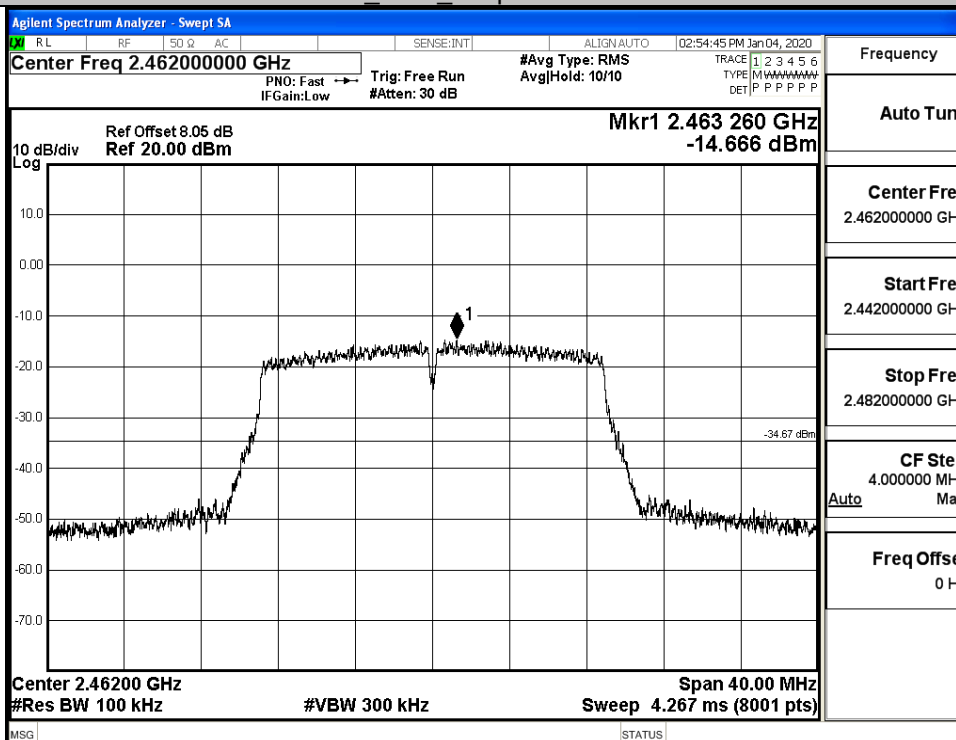
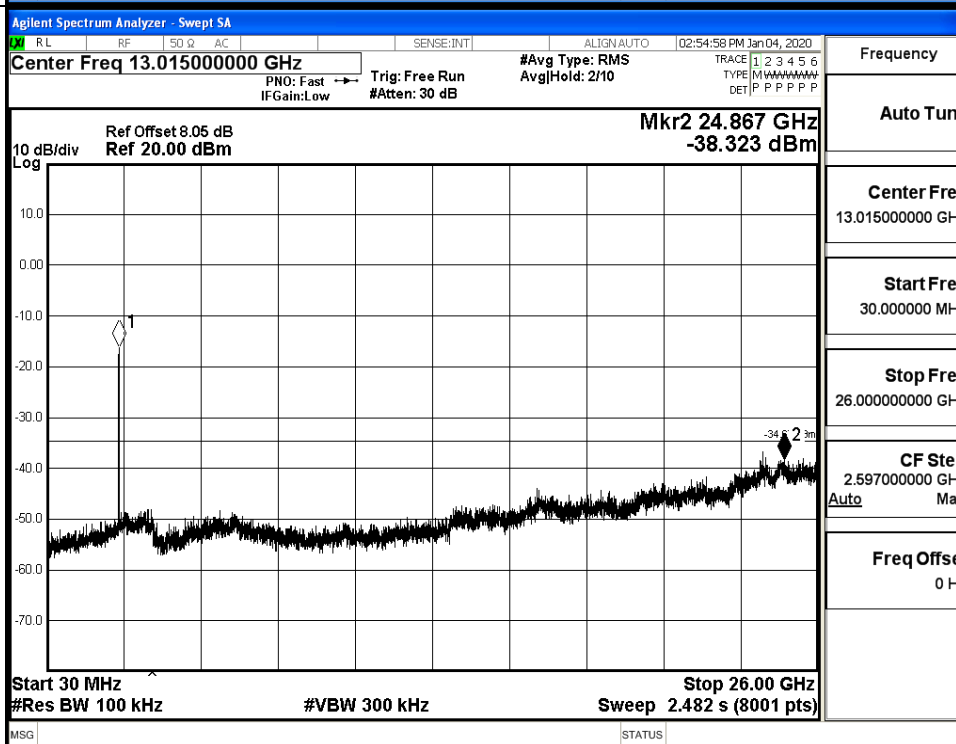
11N20SISO LCH Graphs

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

11N20SISO HCH Graphs

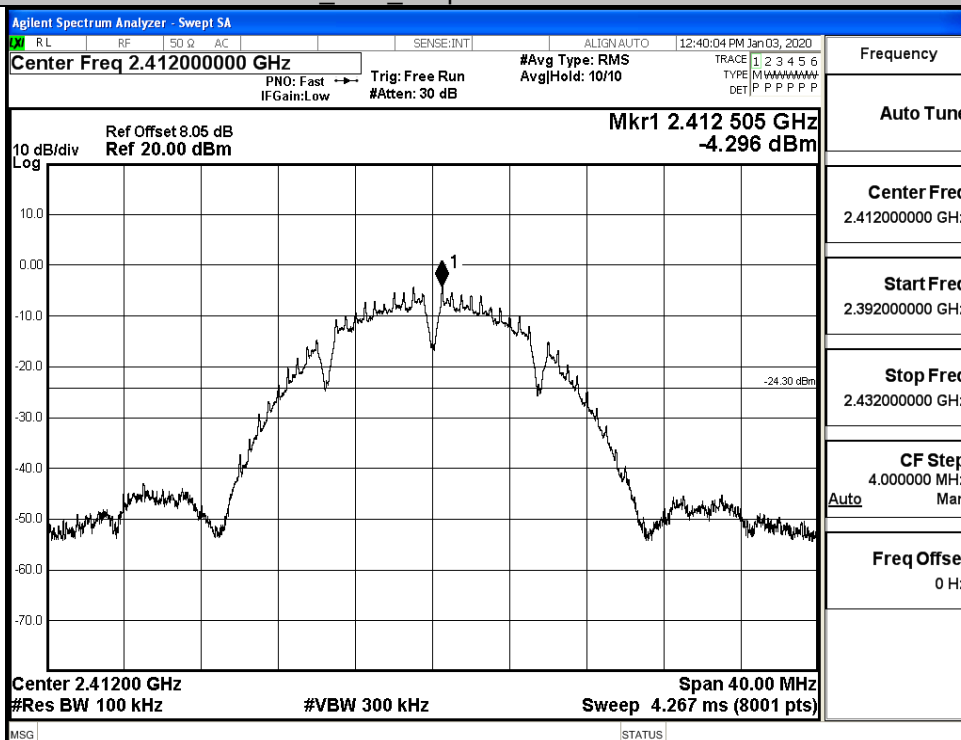
Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

Ant1

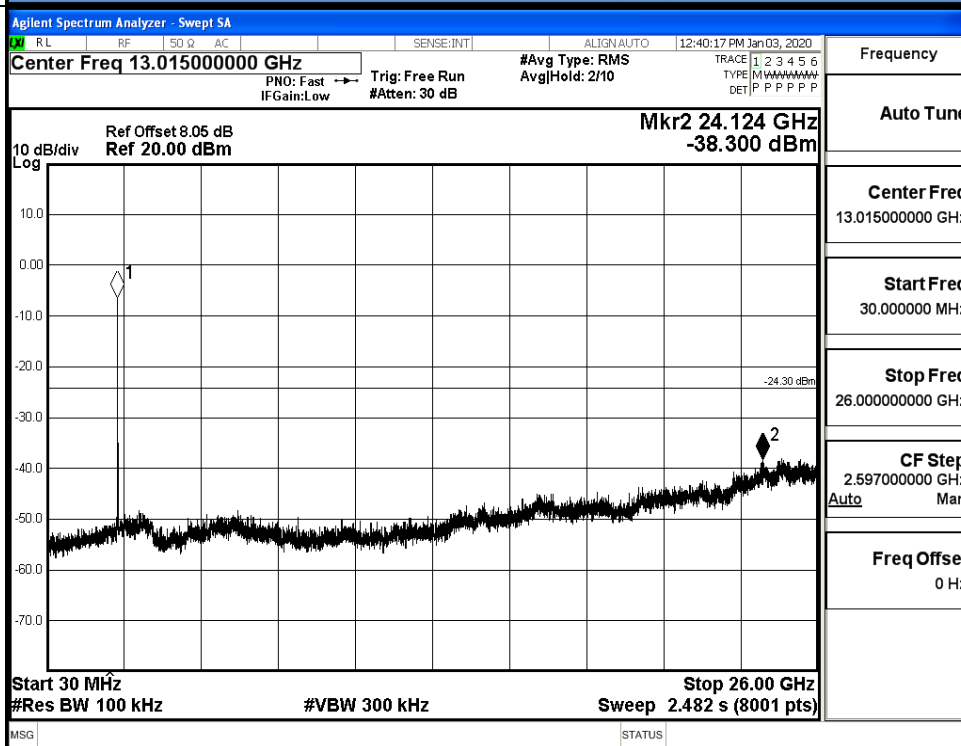
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.296	-38.300	-24.296	PASS
	MCH	-5.175	-38.247	-25.175	PASS
	HCH	-4.585	-37.914	-24.585	PASS
11G	LCH	-12.964	-36.787	-32.964	PASS
	MCH	-15.945	-37.368	-35.945	PASS
	HCH	-15.278	-36.912	-35.278	PASS
11N20 SISO	LCH	-16.341	-37.503	-36.341	PASS
	MCH	-15.097	-37.094	-35.097	PASS
	HCH	-15.416	-38.060	-35.416	PASS

11B LCH Graphs

Pref/11B/LCH

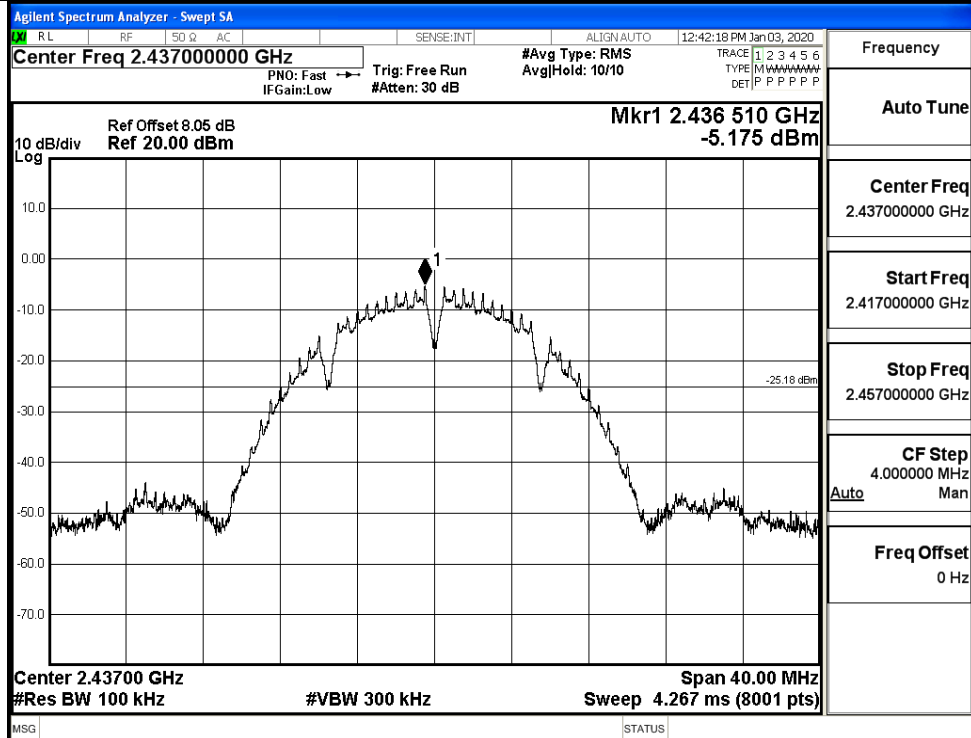


Puw/11B/LCH

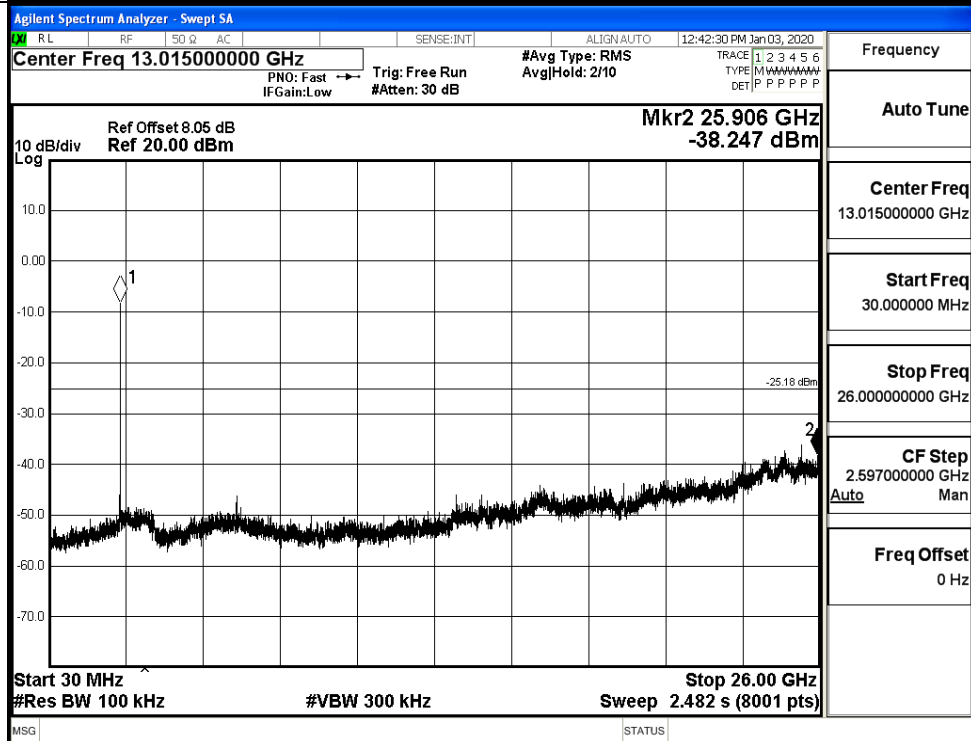


11B MCH Graphs

Pref/11B/MCH

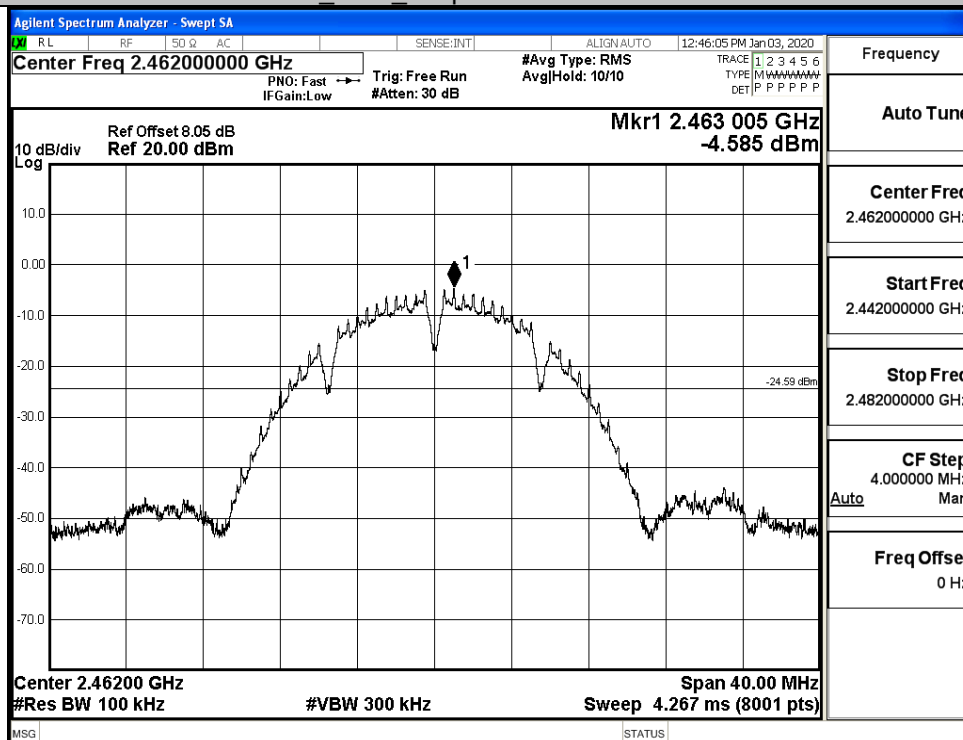


Puw/11B/MCH

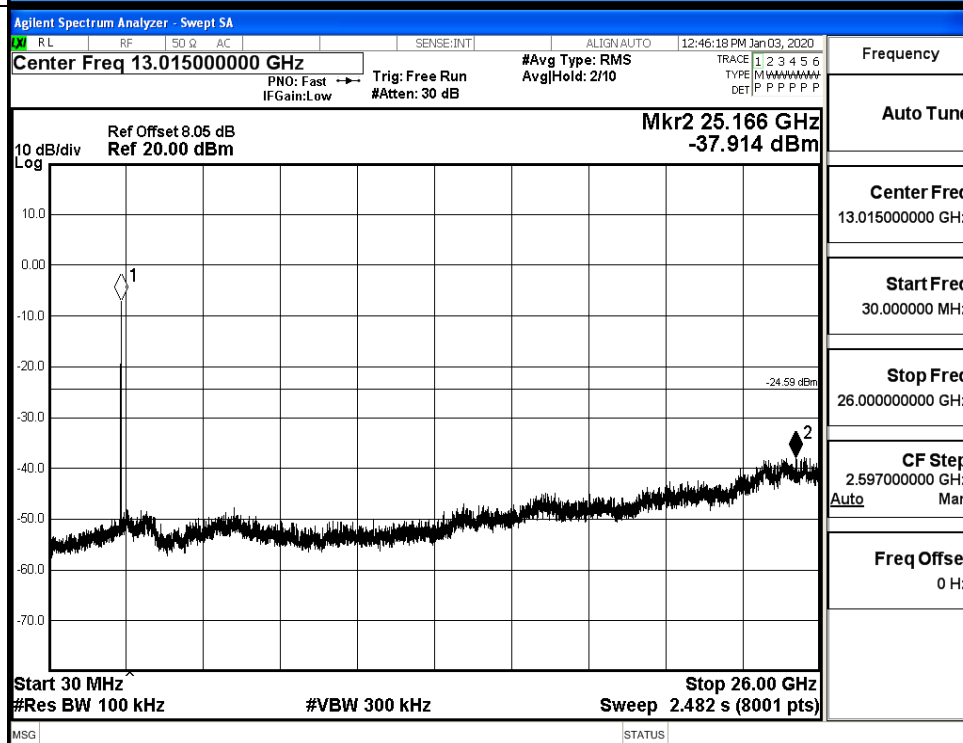


11B HCH Graphs

Pref/11B/HCH

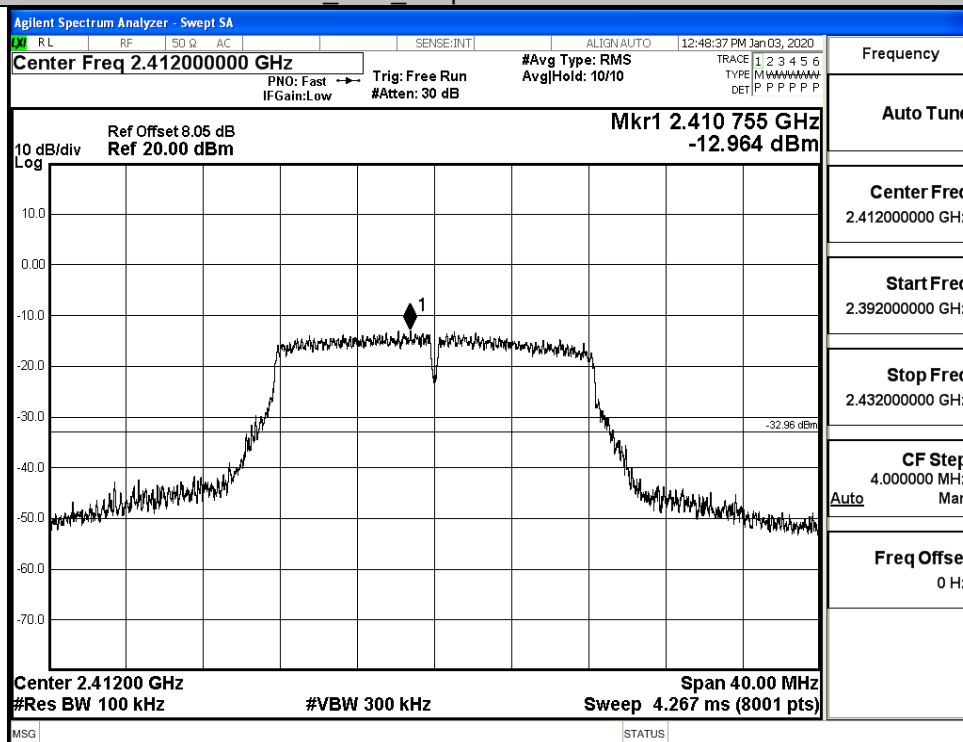


Puw/11B/HCH

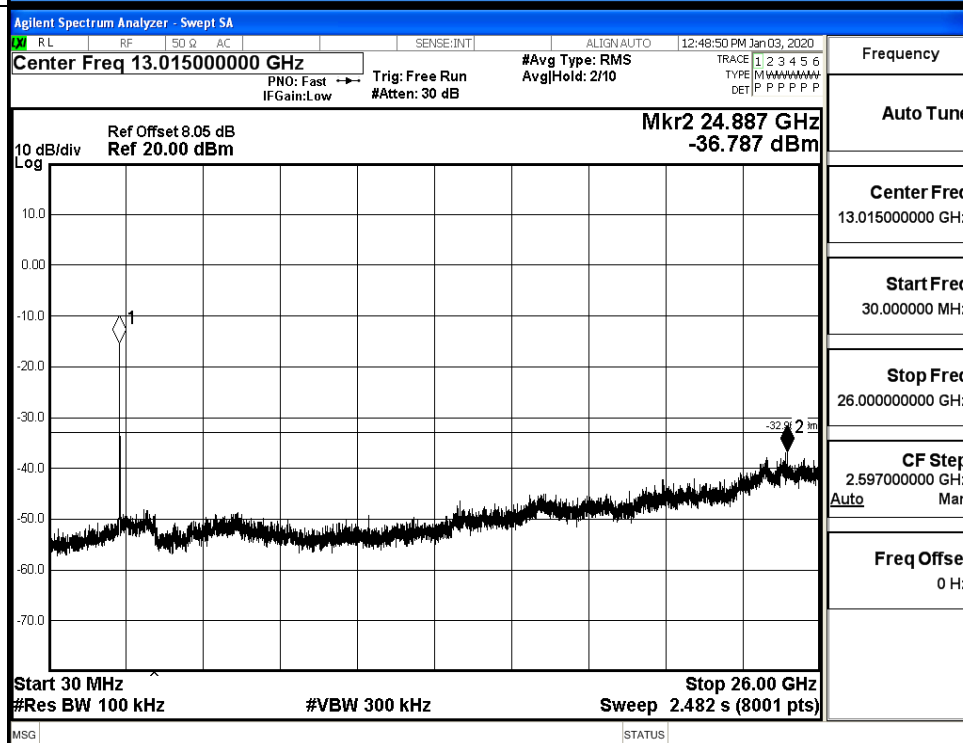


11G LCH Graphs

Pref/11G/LCH

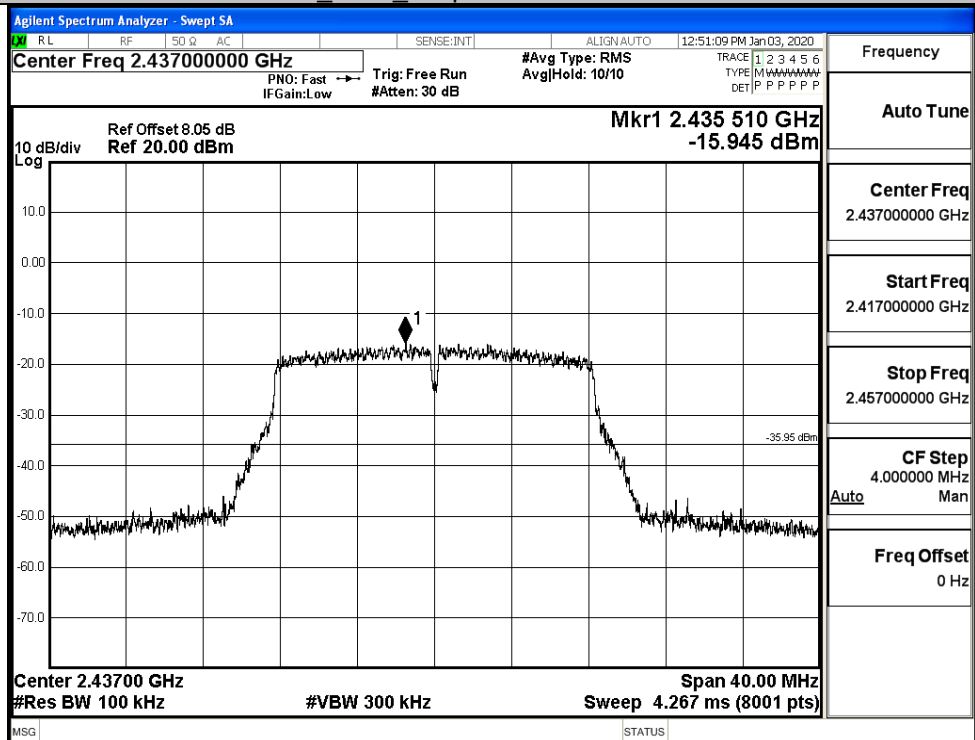


Puw/11G/LCH

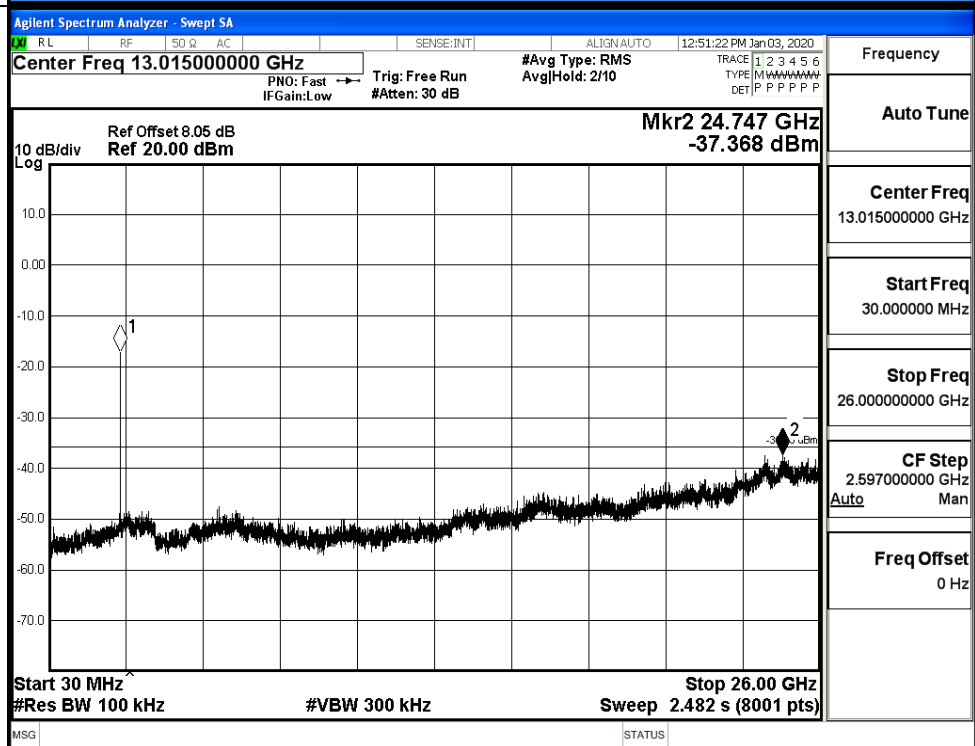


11G MCH Graphs

Pref/11G/MCH

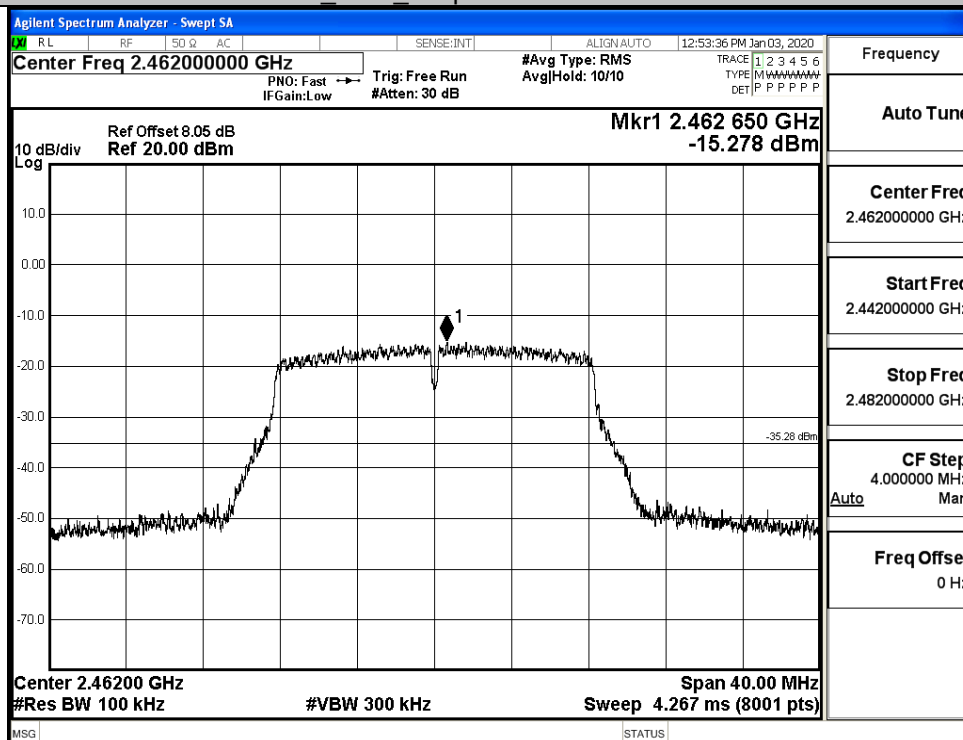


Puw/11G/MCH

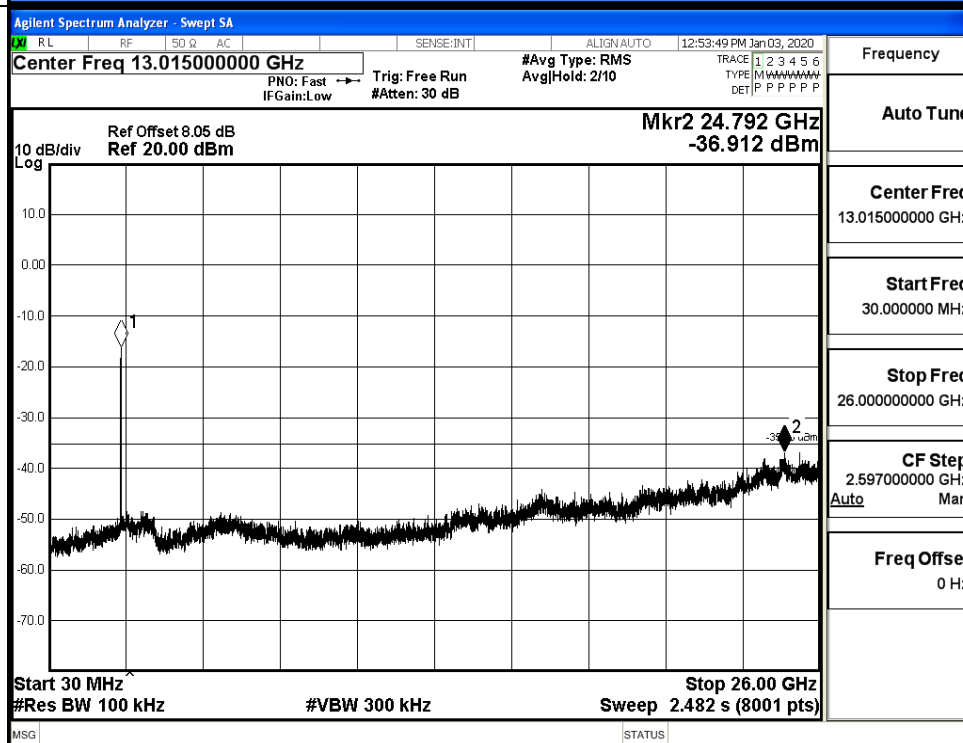


11G HCH Graphs

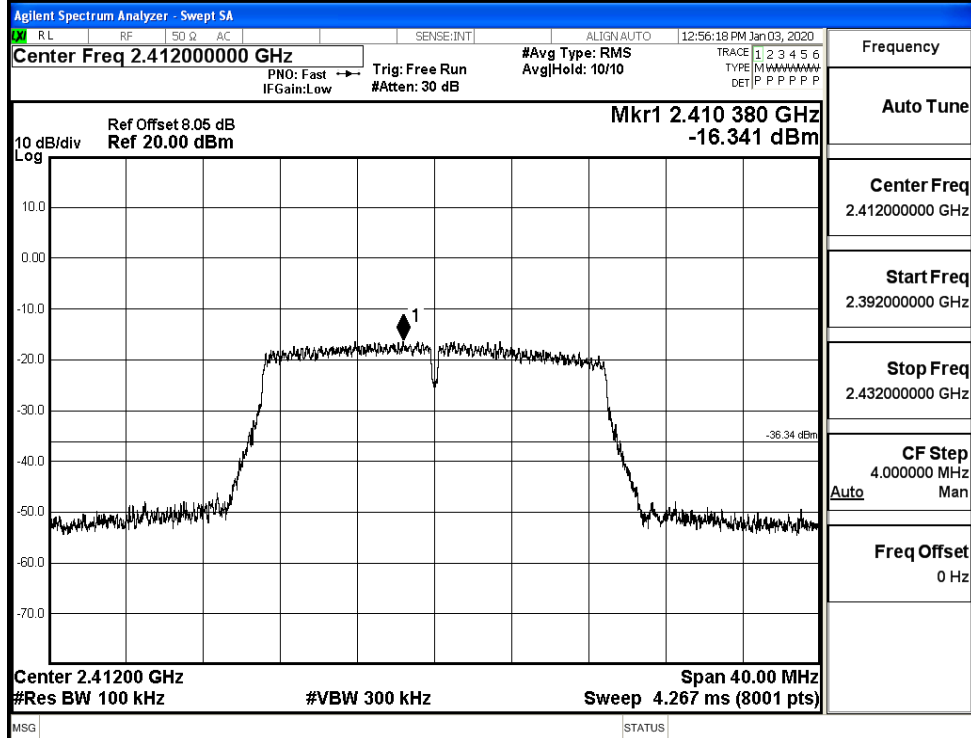
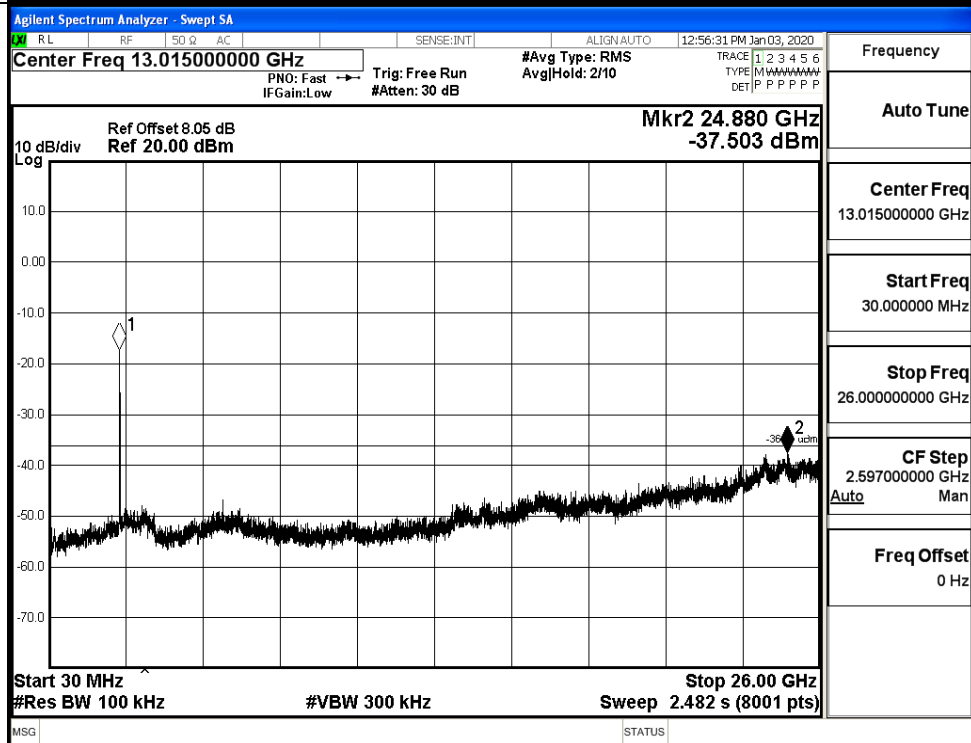
Pref/11G/HCH



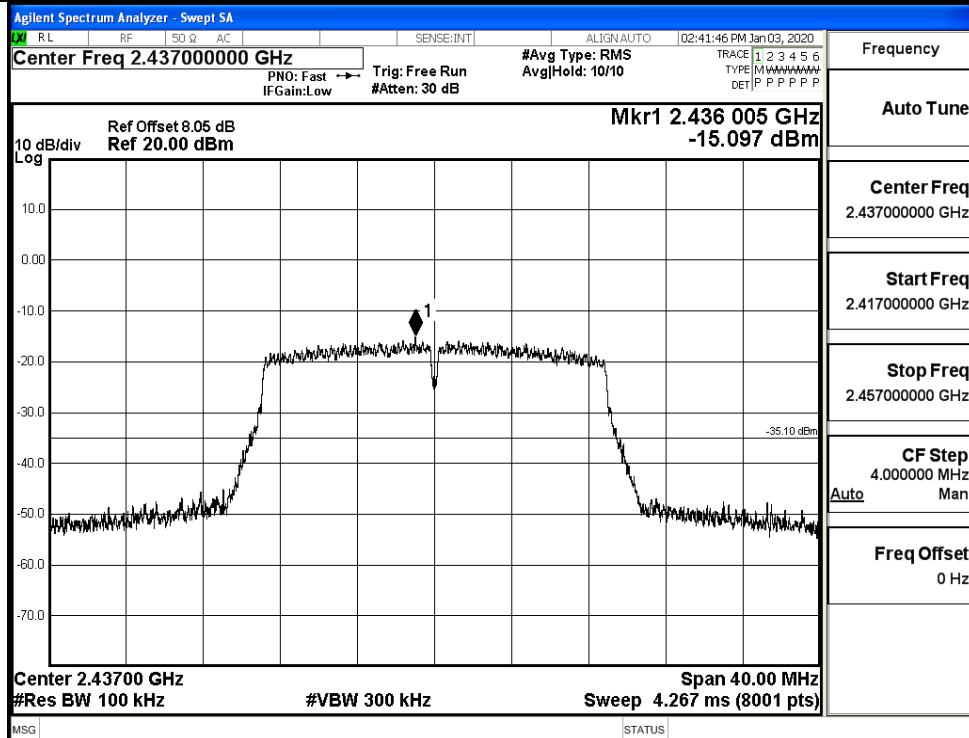
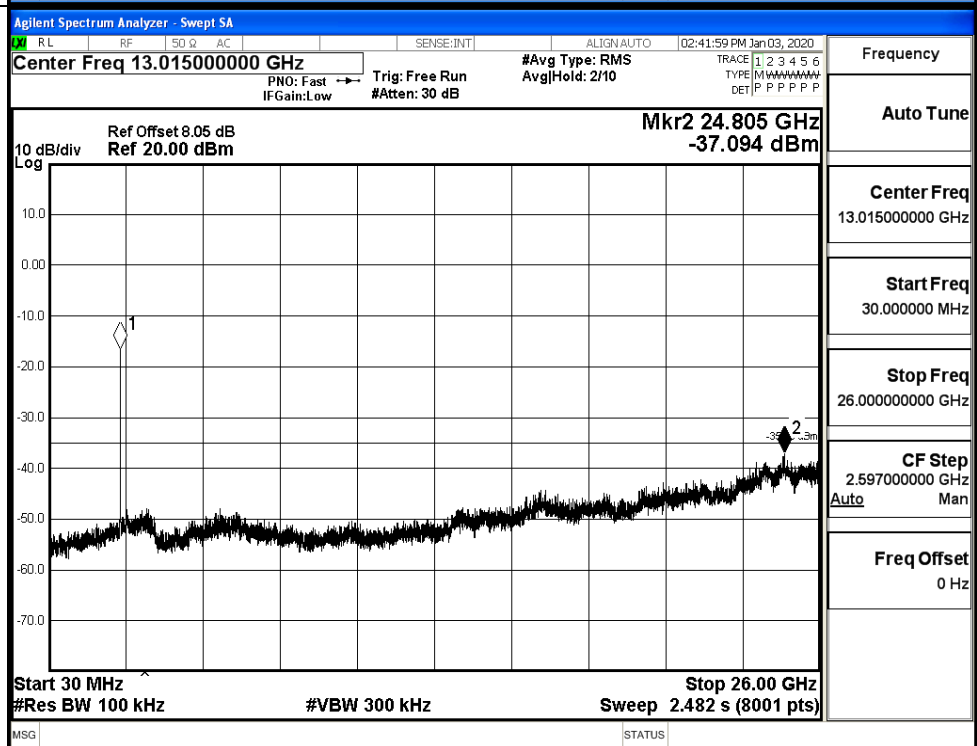
Puw/11G/HCH



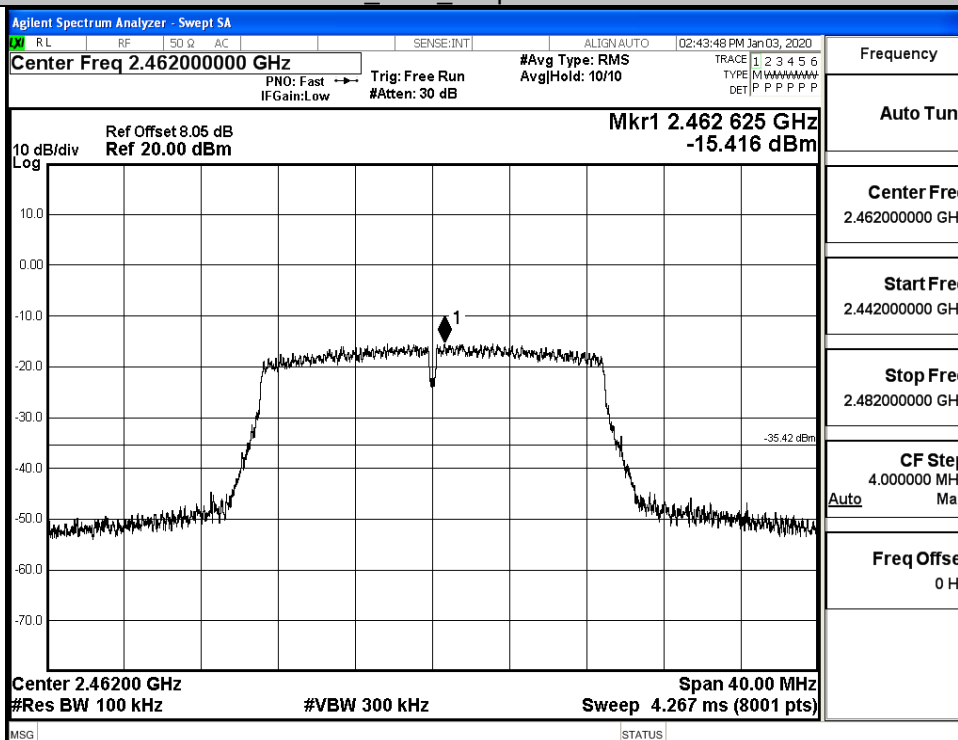
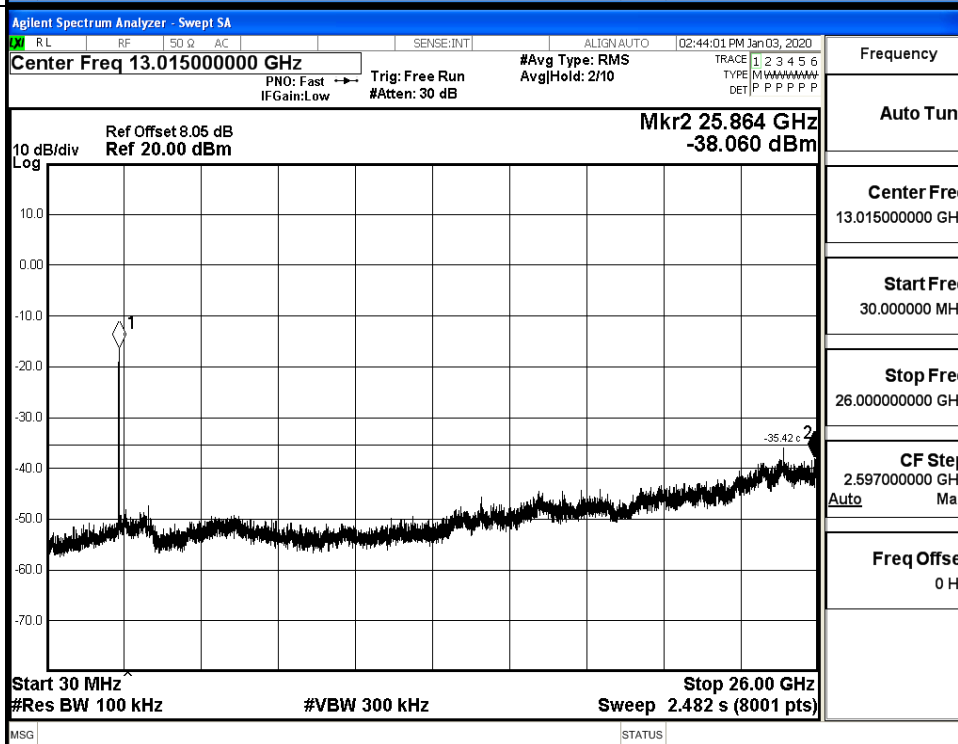
11N20SISO LCH Graphs

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

11N20SISO HCH Graphs

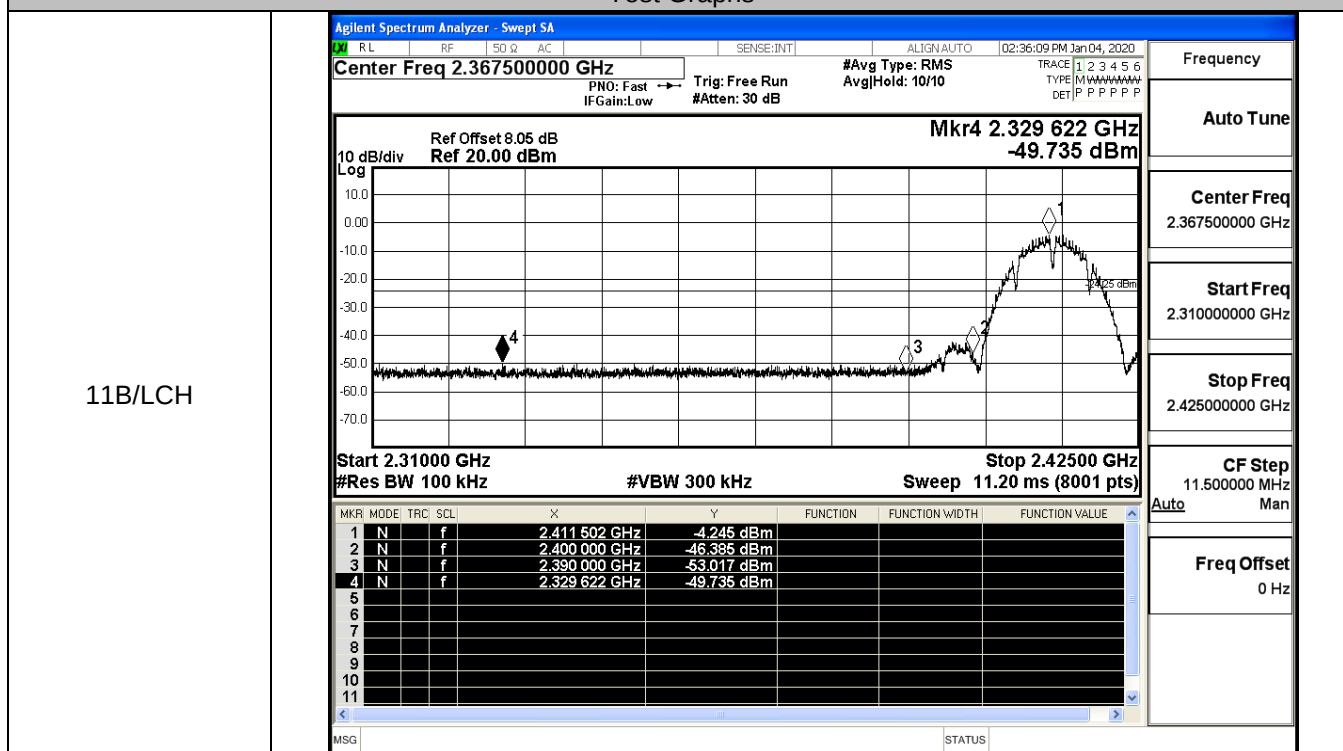
Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

C.6 Band-edge for RF Conducted Emissions

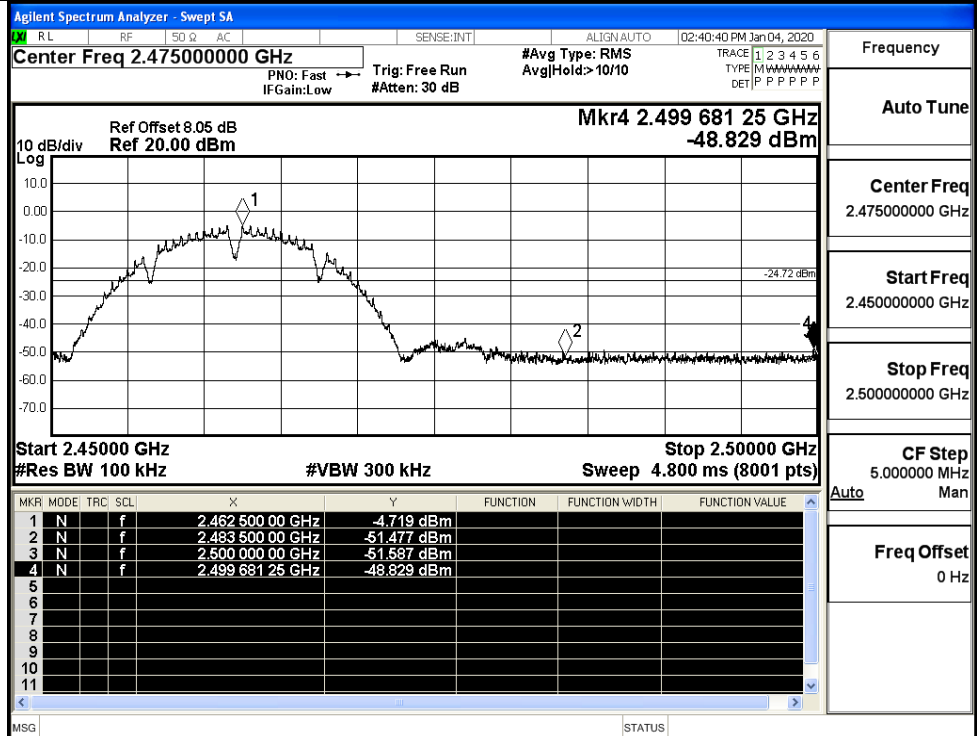
Ant0

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.245	-49.735	-24.25	PASS
	HCH	-4.719	-48.829	-24.72	PASS
11G	LCH	-13.574	-49.645	-33.57	PASS
	HCH	-13.439	-49.591	-33.44	PASS
11N20SISO	LCH	-14.830	-48.904	-34.83	PASS
	HCH	-14.819	-48.381	-34.82	PASS

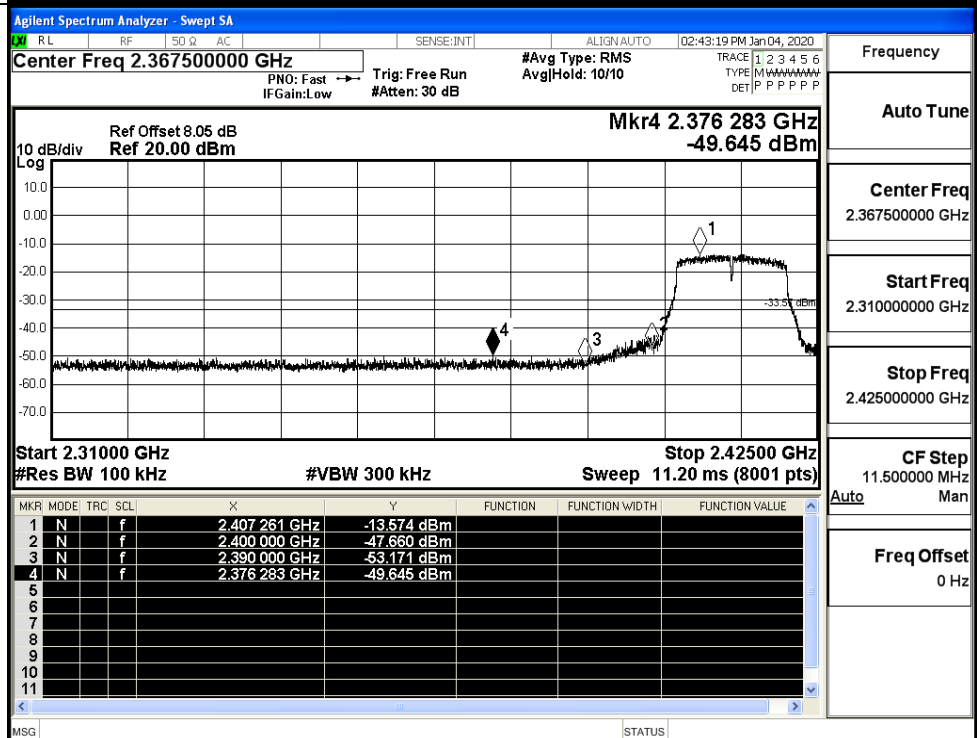
Test Graphs



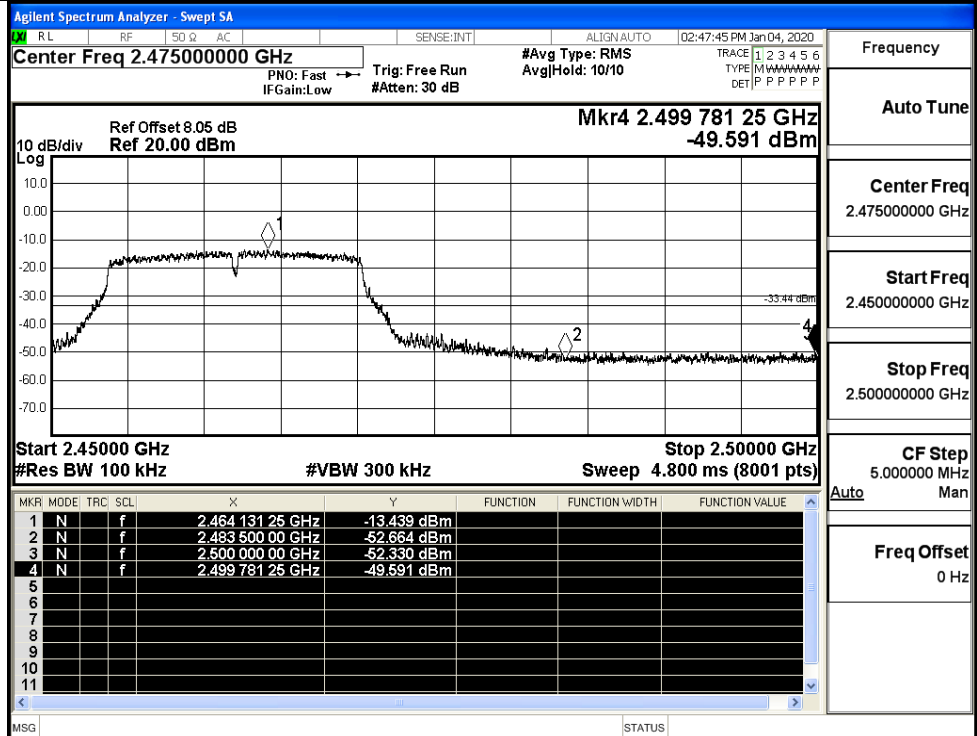
11B/HCH



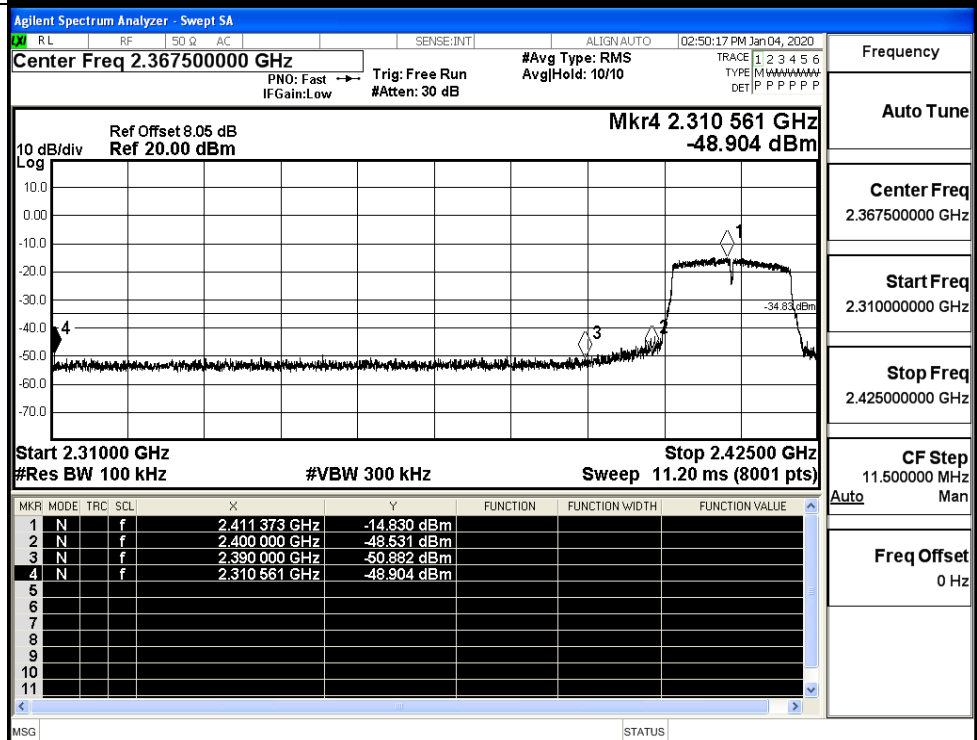
11G/LCH



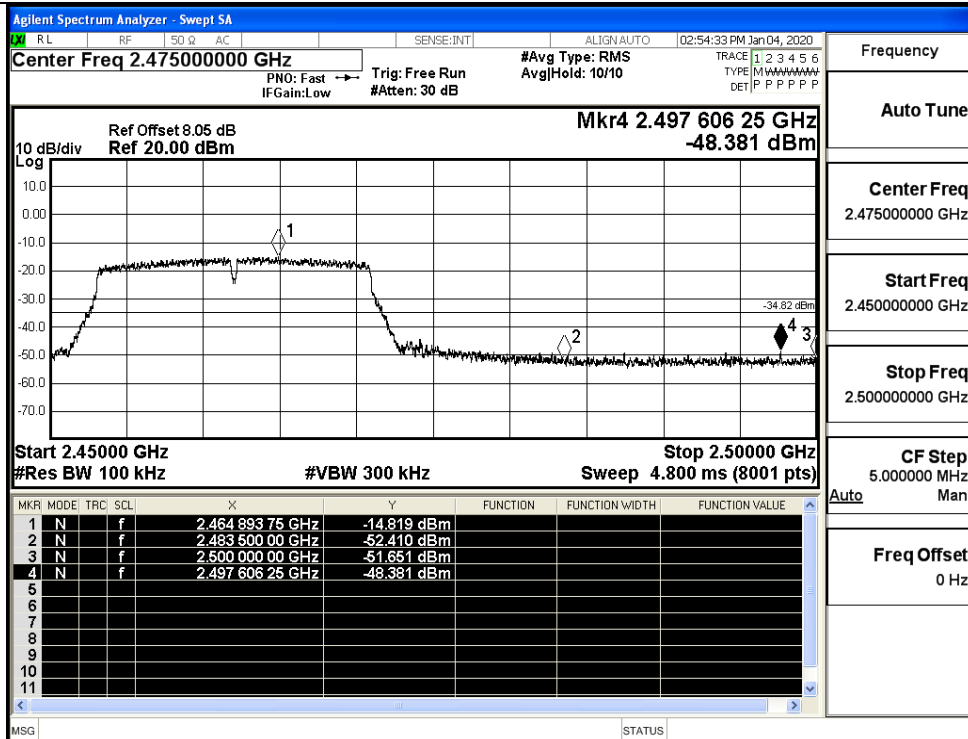
11G/HCH



11N20SISO/LCH

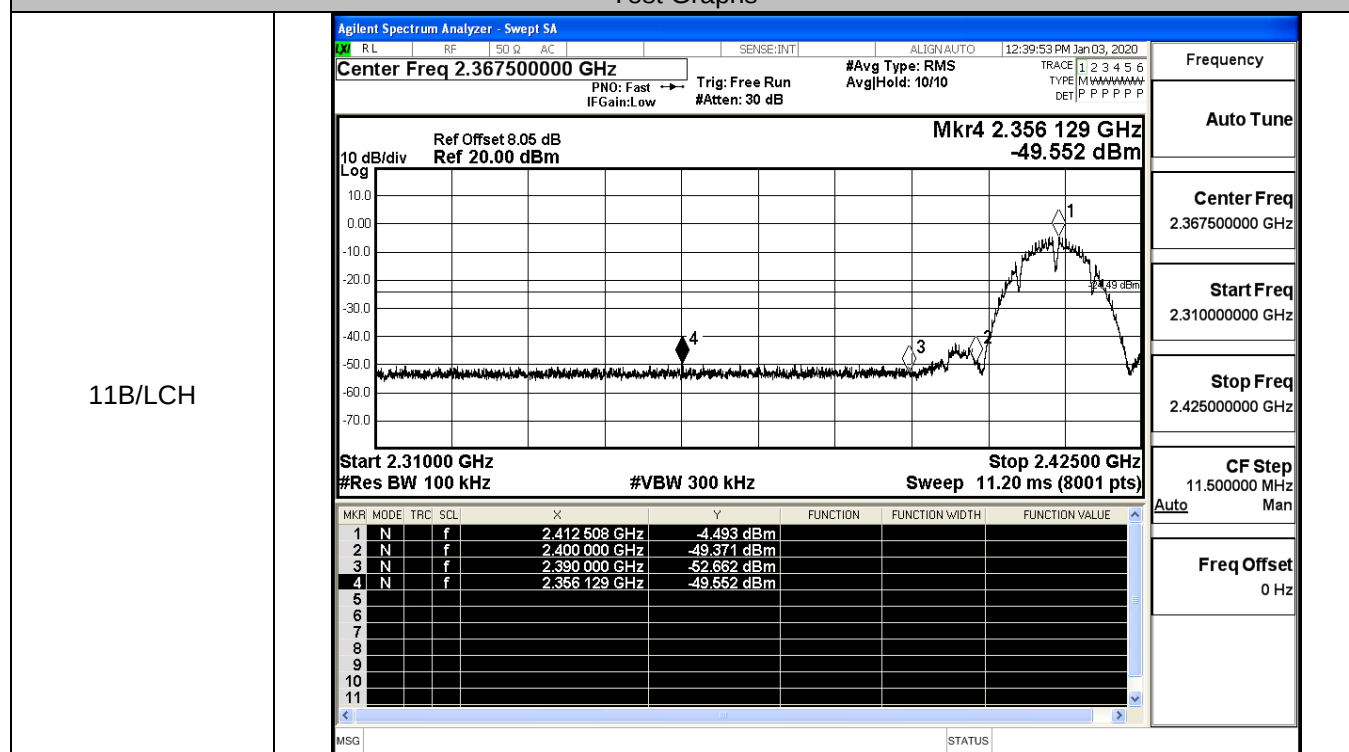


11N20SISO/HCH



Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.493	-49.552	-24.49	PASS
	HCH	-4.941	-49.413	-24.94	PASS
11G	LCH	-13.166	-47.217	-33.17	PASS
	HCH	-15.188	-48.655	-35.19	PASS
11N20SISO	LCH	-15.977	-50.144	-35.98	PASS
	HCH	-15.197	-49.459	-35.2	PASS

Test Graphs



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 12:45:54 PM Jan 03, 2020

Center Freq 2.475000000 GHz **#Avg Type: RMS** **Trig: Free Run** **Auto Tune**
PNO: Fast **IF Gain: Low** **#Atten: 30 dB** **Avg/Hold: 10/10** **TRACE 1 2 3 4 5 6**
TYPE M W W W W W W W
DET P P P P P P P

Ref Offset 8.05 dB **Mkr4 2.497 668 75 GHz**
 Ref 20.00 dBm **-49.413 dBm**

10 dB/div Log

Start 2.45000 GHz **Stop 2.50000 GHz**
 #Res BW 100 kHz **#VBW 300 kHz** **Sweep 4.800 ms (8001 pts)**

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.462 512 50 GHz	-4.941 dBm			
2	N		f	2.483 500 00 GHz	-52.224 dBm			
3	N		f	2.500 000 00 GHz	-50.646 dBm			
4	N		f	2.497 668 75 GHz	-49.413 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Auto Man

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 12:48:26 PM Jan 03, 2020

Center Freq 2.367500000 GHz PNO: Fast Trg: Free Run Avg Type: RMS #Avg Hold: 10/10

IF Gain: Low #Atten: 30 dB TRACE 1 2 3 4 5 6 TYPE M W I N T E R DET P P P P P P

Ref Offset 8.05 dB Mkr4 2.376 441 GHz
Ref 20.00 dBm -47.217 dBm

10 dB/div Log

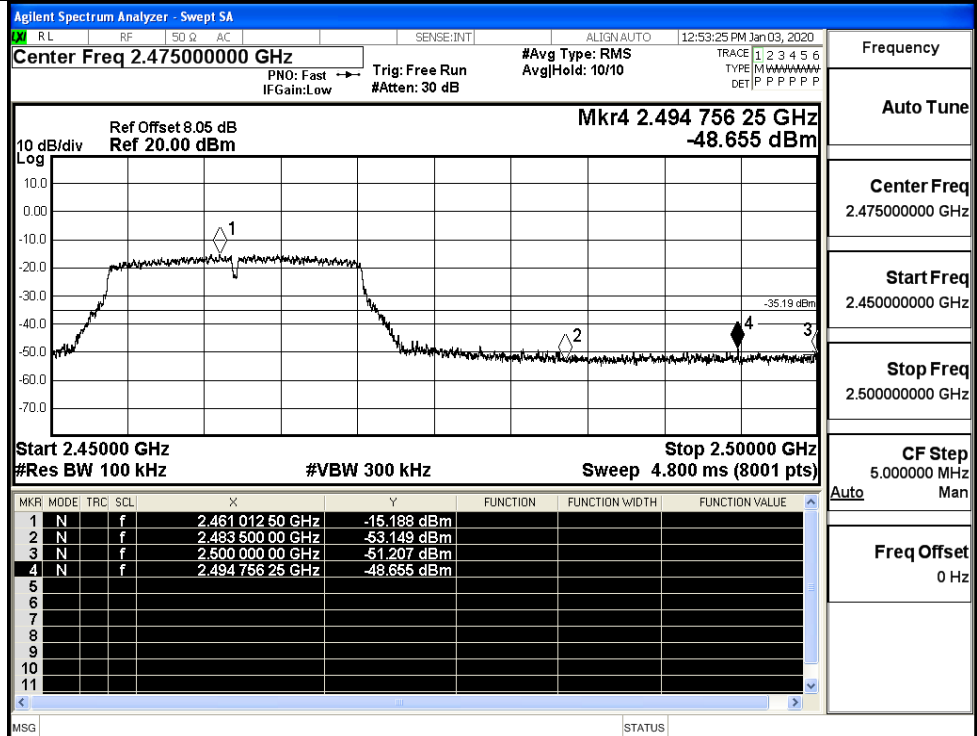
Start 2.31000 GHz Stop 2.42500 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 11.20 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.409 763 GHz	-13.166 dBm			
2	N	f		2.400 000 GHz	-44.793 dBm			
3	N	f		2.390 000 GHz	-52.569 dBm			
4	N	f		2.376 441 GHz	-47.217 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency Auto Tune Center Freq 2.367500000 GHz Start Freq 2.310000000 GHz Stop Freq 2.425000000 GHz CF Step 11.500000 MHz Auto Man Freq Offset 0 Hz

11G/HCH



Frequency

Auto Tune

Center Freq

2.475000000 GHz

Start Freq

2.450000000 GHz

Stop Freq

2.500000000 GHz

CF Step

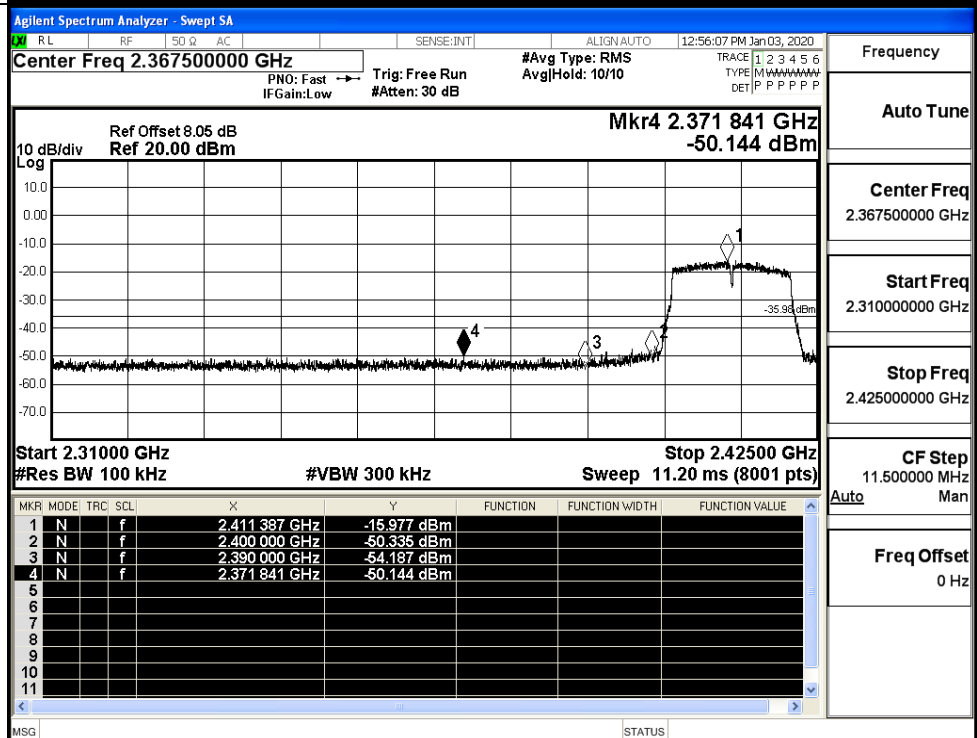
5.000000 MHz

Auto

Freq Offset

0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq

2.367500000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.425000000 GHz

CF Step

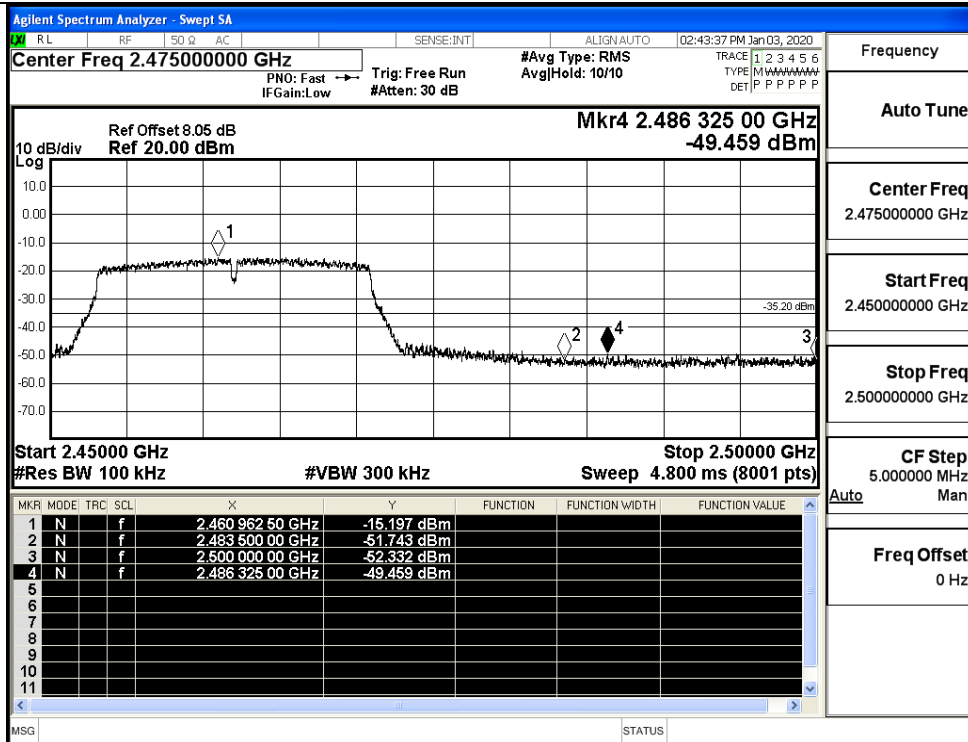
11.500000 MHz

Auto

Freq Offset

0 Hz

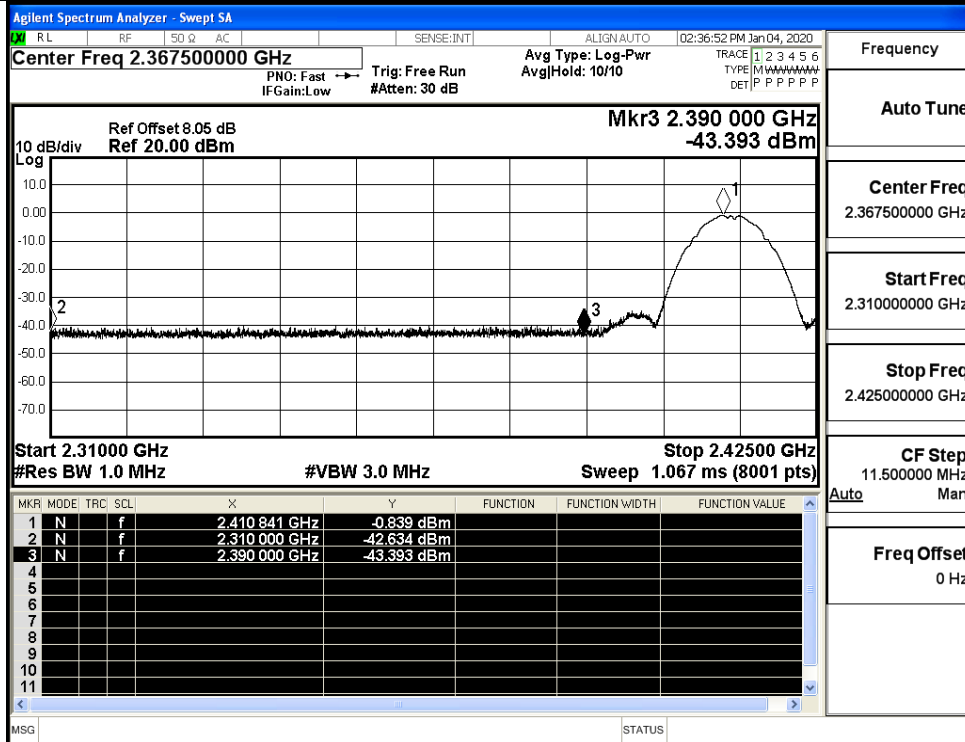
11N20SISO/HCH



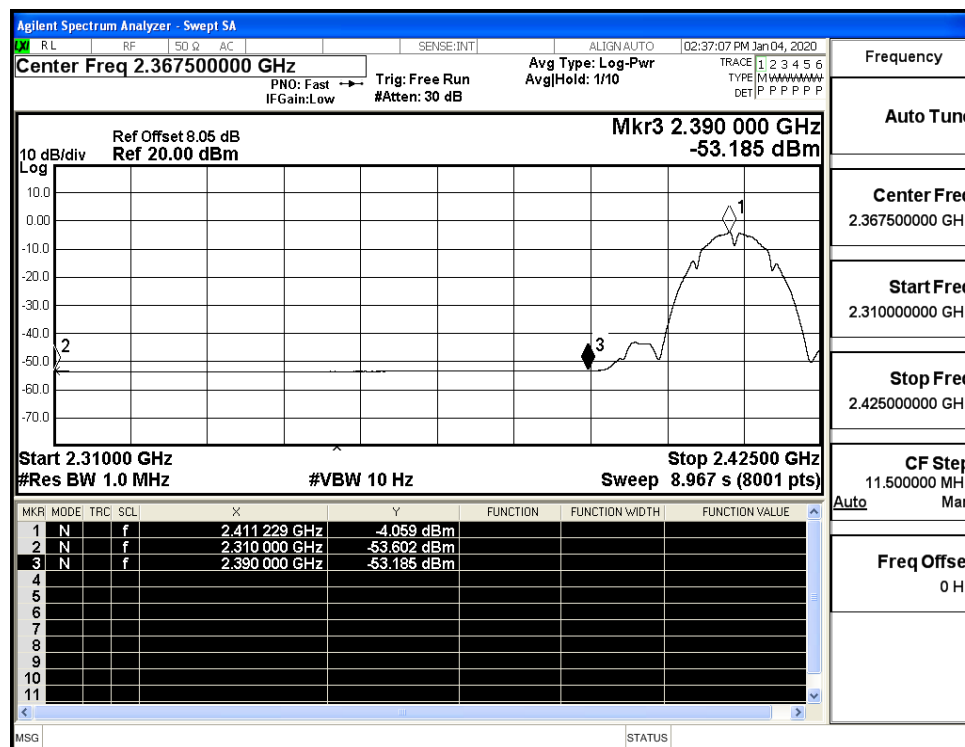
C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant0	2310.0	-42.63	2.0	0	52.62	PEAK	74	PASS
	2412	Ant0	2310.0	-53.60	2.0	0	41.66	AV	54	PASS
	2412	Ant0	2390.0	-43.39	2.0	0	51.86	PEAK	74	PASS
	2412	Ant0	2390.0	-53.19	2.0	0	42.07	AV	54	PASS
	2462	Ant0	2483.5	-43.17	2.0	0	52.09	PEAK	74	PASS
	2462	Ant0	2483.5	-52.82	2.0	0	42.43	AV	54	PASS
	2462	Ant0	2500.0	-42.97	2.0	0	52.29	PEAK	74	PASS
	2462	Ant0	2500.0	-52.57	2.0	0	42.69	AV	54	PASS
11G	2412	Ant0	2310.0	-43.48	2.0	0	51.78	PEAK	74	PASS
	2412	Ant0	2310.0	-53.59	2.0	0	41.67	AV	54	PASS
	2412	Ant0	2390.0	-42.16	2.0	0	53.10	PEAK	74	PASS
	2412	Ant0	2390.0	-52.71	2.0	0	42.55	AV	54	PASS
	2462	Ant0	2483.5	-42.57	2.0	0	52.69	PEAK	74	PASS
	2462	Ant0	2483.5	-52.40	2.0	0	42.86	AV	54	PASS
	2462	Ant0	2500.0	-42.84	2.0	0	52.42	PEAK	74	PASS
	2462	Ant0	2500.0	-52.57	2.0	0	42.69	AV	54	PASS
11N20 SISO	2412	Ant0	2310.0	-43.83	2.0	0	51.43	PEAK	74	PASS
	2412	Ant0	2310.0	-53.62	2.0	0	41.63	AV	54	PASS
	2412	Ant0	2390.0	-42.30	2.0	0	52.96	PEAK	74	PASS
	2412	Ant0	2390.0	-52.68	2.0	0	42.58	AV	54	PASS
	2462	Ant0	2483.5	-42.16	2.0	0	53.09	PEAK	74	PASS
	2462	Ant0	2483.5	-52.45	2.0	0	42.81	AV	54	PASS
	2462	Ant0	2500.0	-42.51	2.0	0	52.75	PEAK	74	PASS
	2462	Ant0	2500.0	-52.59	2.0	0	42.67	AV	54	PASS

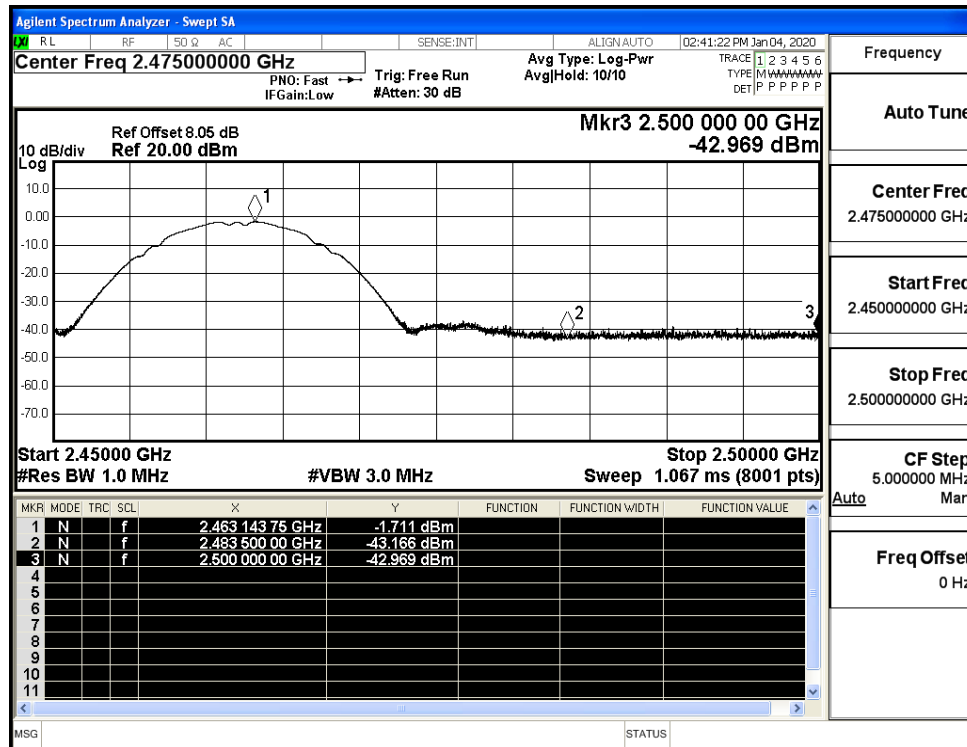
Restrict-band band-edge measurements_11B_2412_Ant0_PEAK



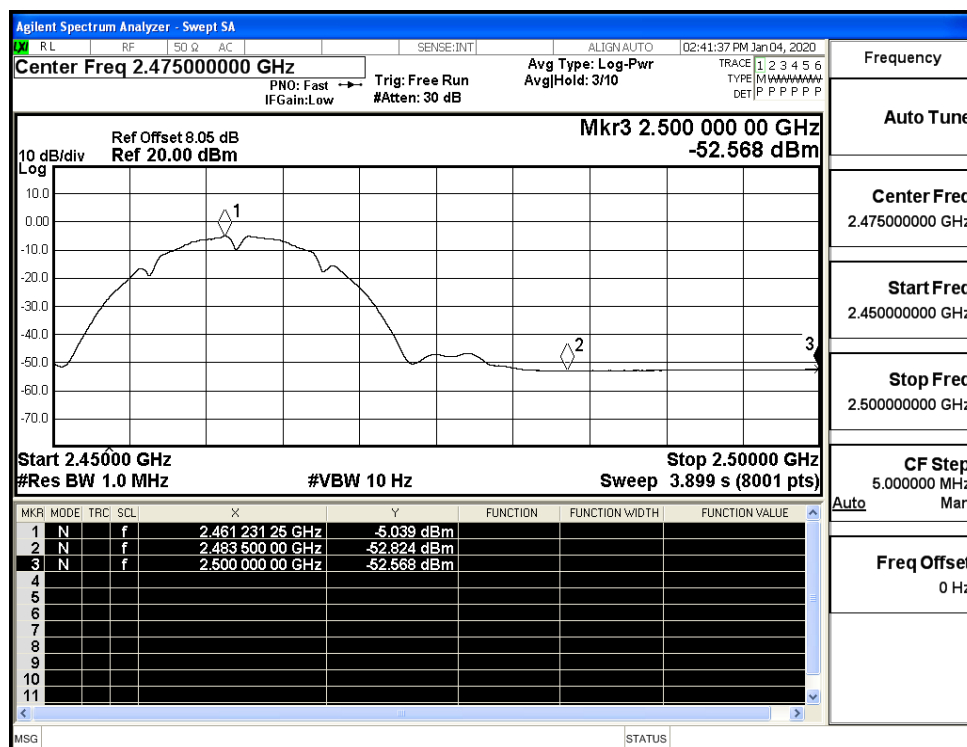
Restrict-band band-edge measurements_11B_2412_Ant0_AV



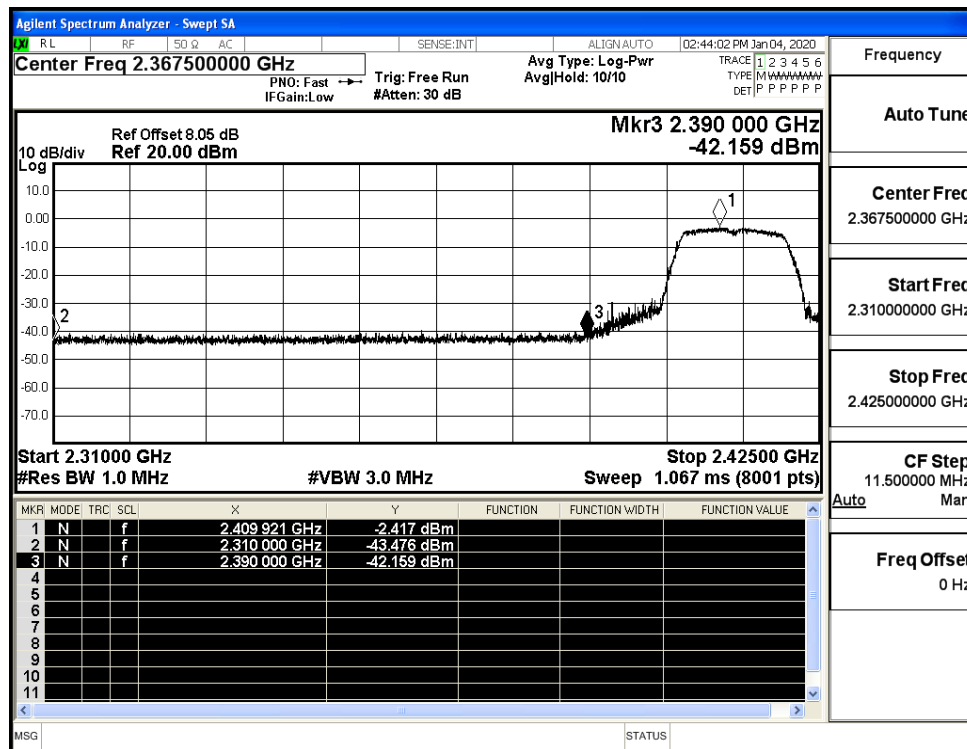
Restrict-band band-edge measurements_11B_2462_Ant0_PEAK



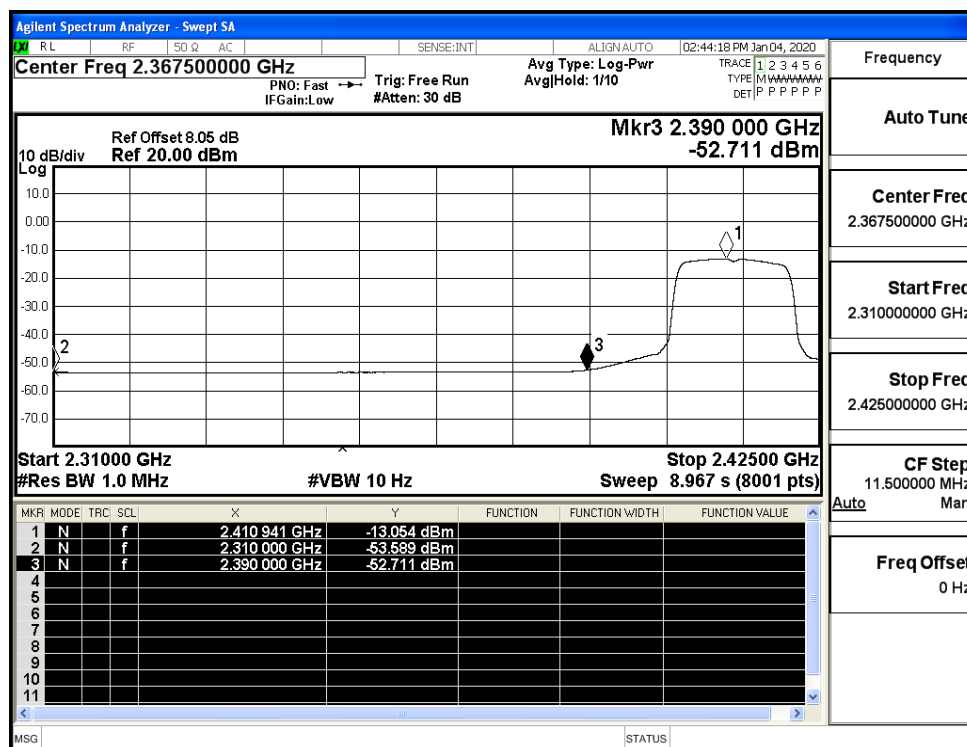
Restrict-band band-edge measurements_11B_2462_Ant0_AV



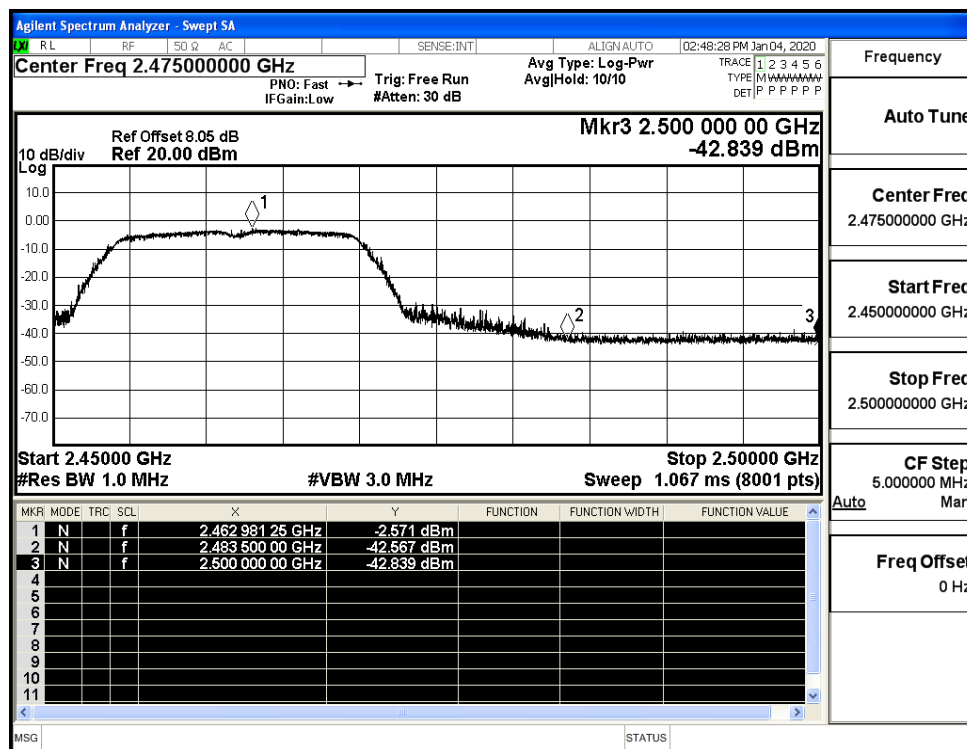
Restrict-band band-edge measurements_11G_2412_Ant0_PEAK



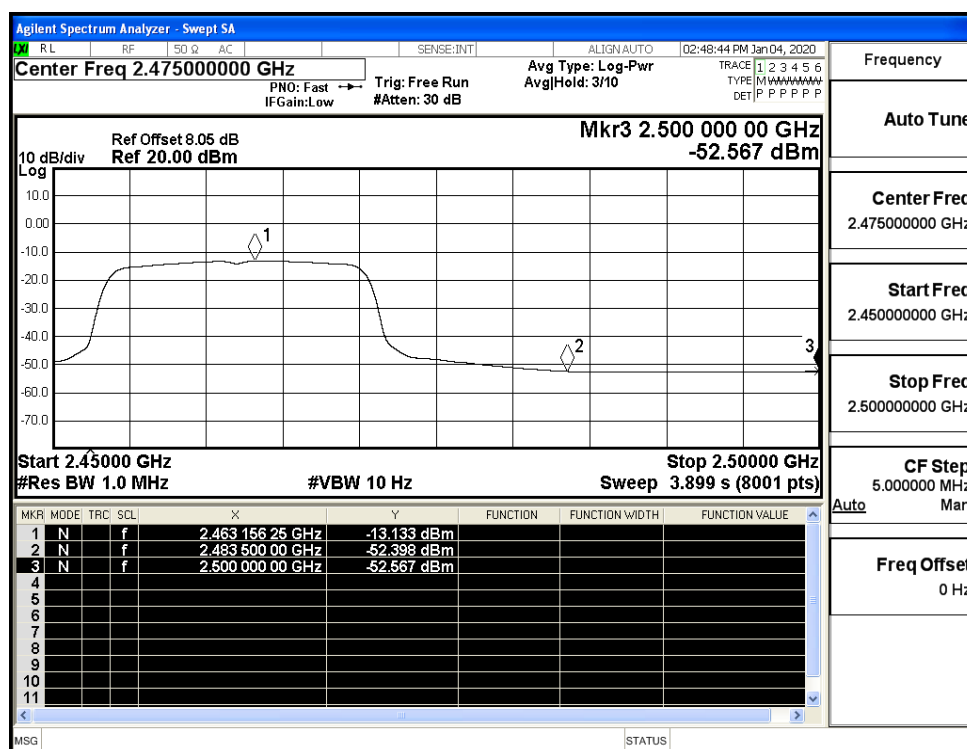
Restrict-band band-edge measurements_11G_2412_Ant0_AV



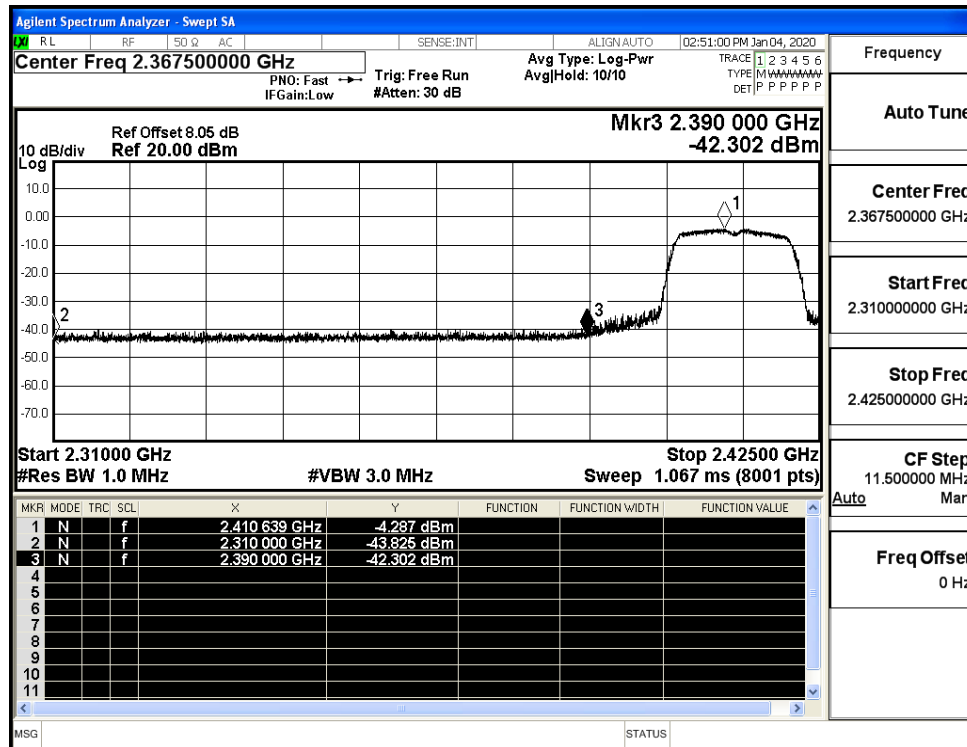
Restrict-band band-edge measurements_11G_2462_Ant0_PEAK



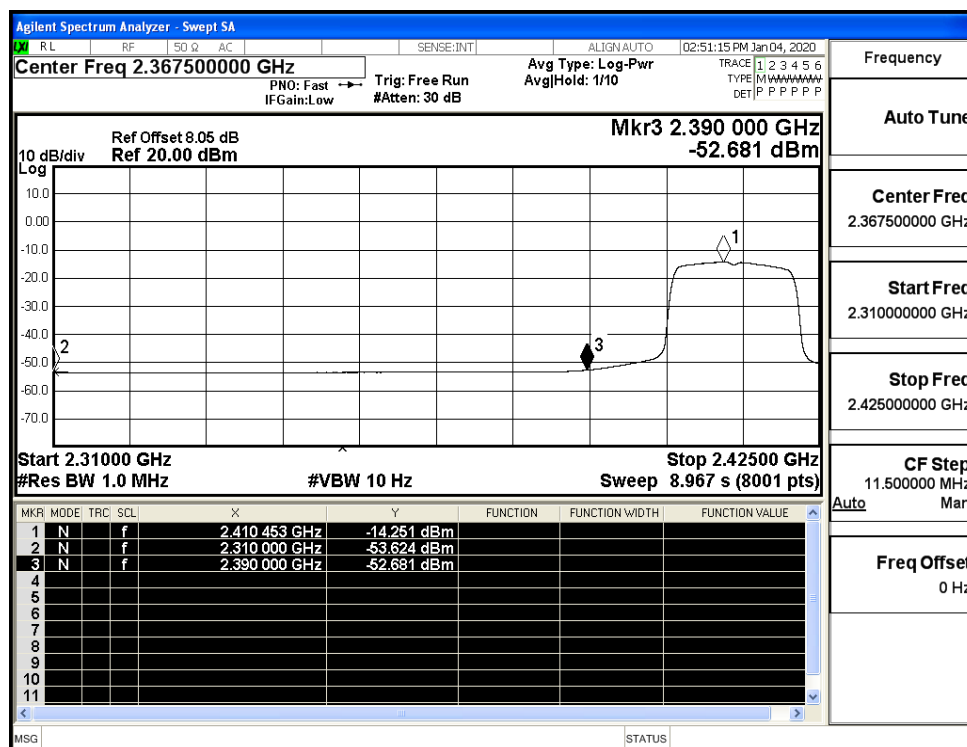
Restrict-band band-edge measurements_11G_2462_Ant0_AV



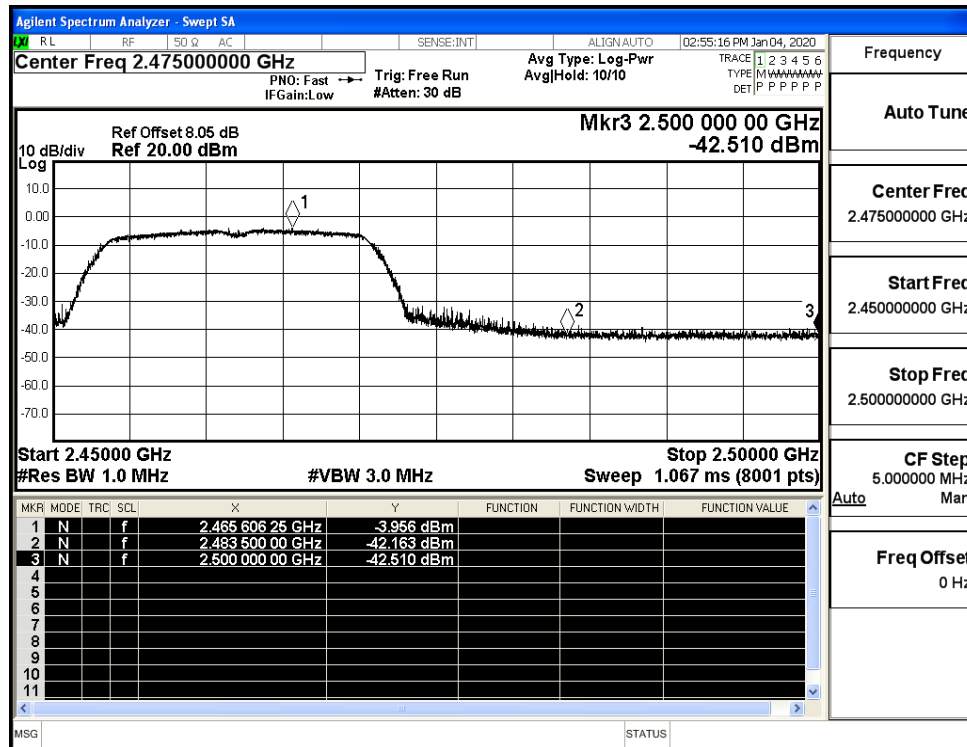
Restrict-band band-edge measurements_11N20SISO_2412_Ant0_PEAK



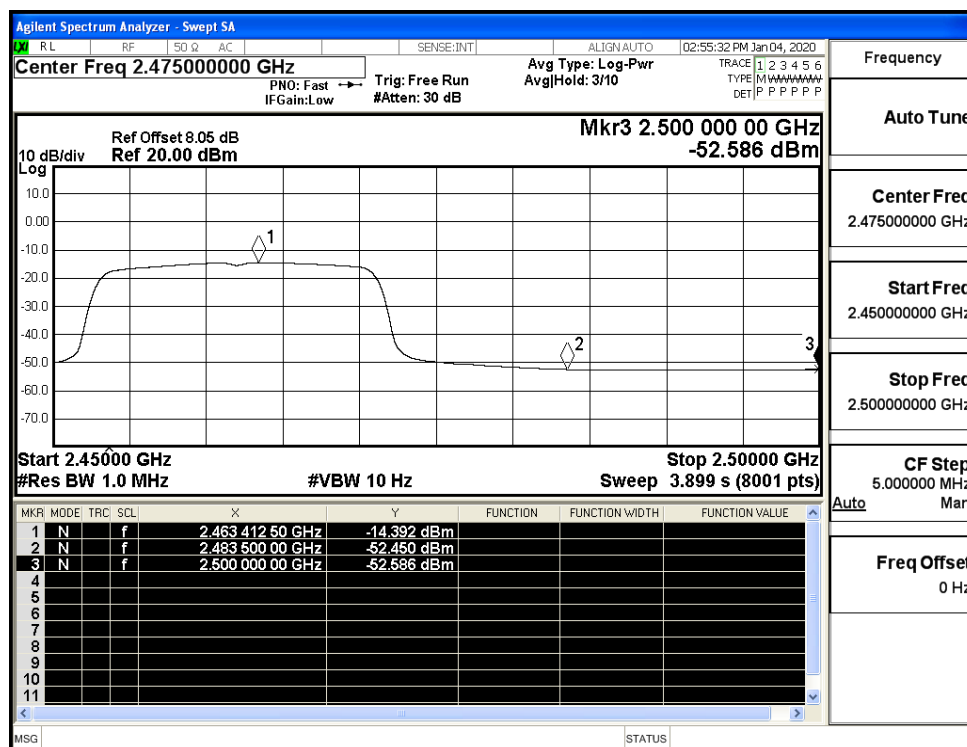
Restrict-band band-edge measurements_11N20SISO_2412_Ant0_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant0_PEAK

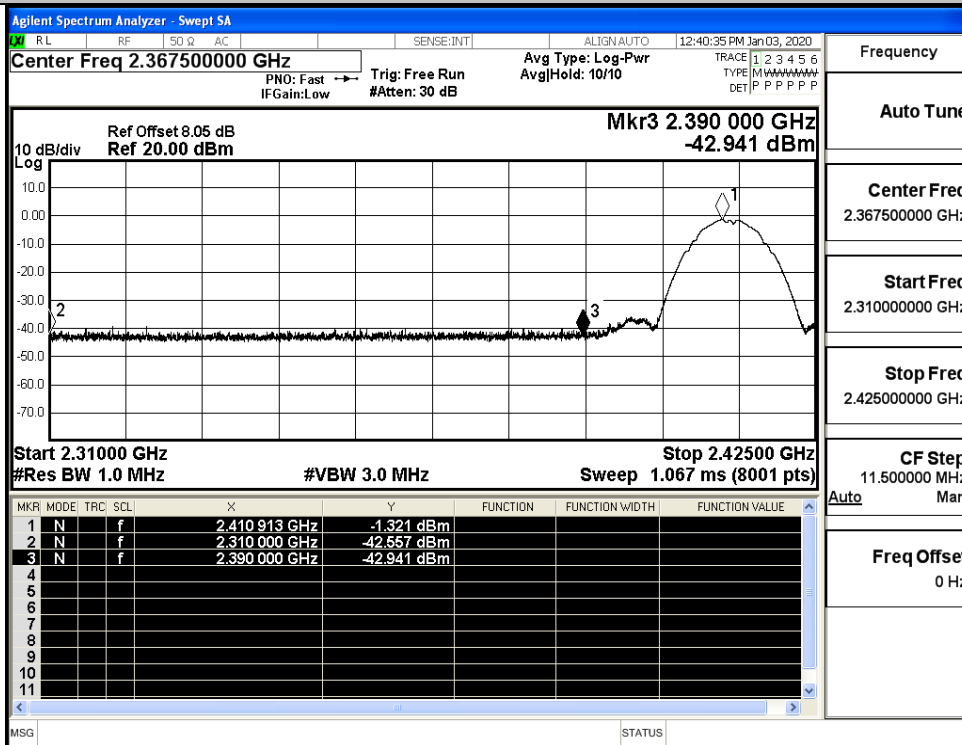


Restrict-band band-edge measurements_11N20SISO_2462_Ant0_AV

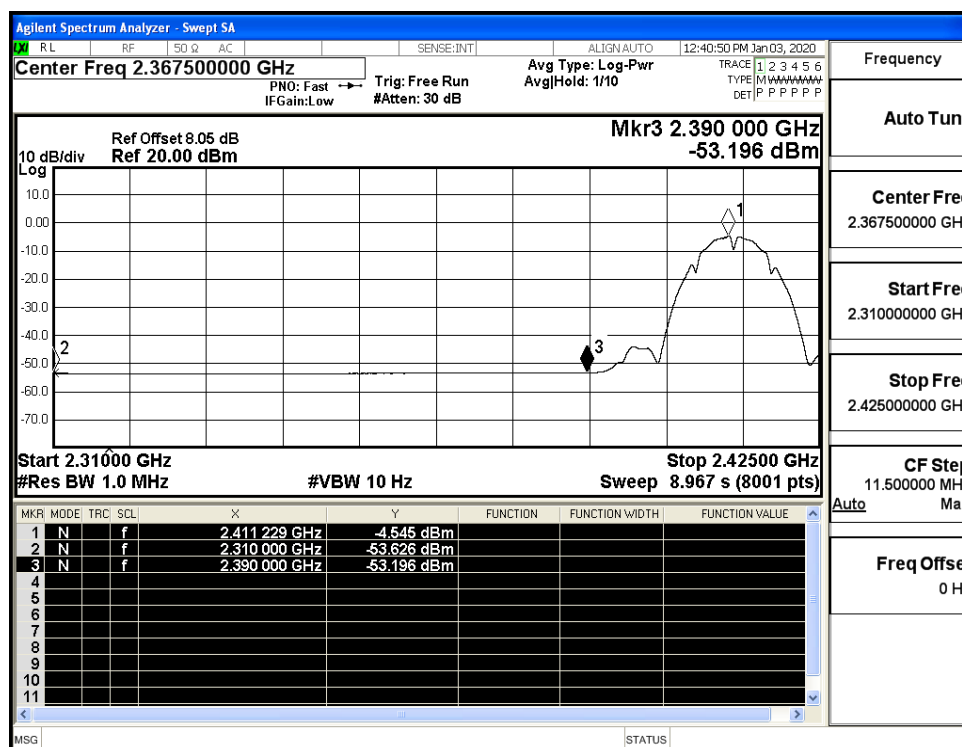


Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-42.56	2.0	0	52.70	PEAK	74	PASS
	2412	Ant1	2310.0	-53.63	2.0	0	41.63	AV	54	PASS
	2412	Ant1	2390.0	-42.94	2.0	0	52.32	PEAK	74	PASS
	2412	Ant1	2390.0	-53.20	2.0	0	42.06	AV	54	PASS
	2462	Ant1	2483.5	-41.86	2.0	0	53.40	PEAK	74	PASS
	2462	Ant1	2483.5	-52.89	2.0	0	42.37	AV	54	PASS
	2462	Ant1	2500.0	-41.88	2.0	0	53.38	PEAK	74	PASS
	2462	Ant1	2500.0	-52.64	2.0	0	42.62	AV	54	PASS
11G	2412	Ant1	2310.0	-43.17	2.0	0	52.08	PEAK	74	PASS
	2412	Ant1	2310.0	-53.65	2.0	0	41.61	AV	54	PASS
	2412	Ant1	2390.0	-40.34	2.0	0	54.92	PEAK	74	PASS
	2412	Ant1	2390.0	-52.51	2.0	0	42.75	AV	54	PASS
	2462	Ant1	2483.5	-42.93	2.0	0	52.33	PEAK	74	PASS
	2462	Ant1	2483.5	-52.68	2.0	0	42.58	AV	54	PASS
	2462	Ant1	2500.0	-42.50	2.0	0	52.75	PEAK	74	PASS
	2462	Ant1	2500.0	-52.64	2.0	0	42.62	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-41.61	2.0	0	53.65	PEAK	74	PASS
	2412	Ant1	2310.0	-53.64	2.0	0	41.62	AV	54	PASS
	2412	Ant1	2390.0	-42.91	2.0	0	52.35	PEAK	74	PASS
	2412	Ant1	2390.0	-53.02	2.0	0	42.24	AV	54	PASS
	2462	Ant1	2483.5	-43.13	2.0	0	52.13	PEAK	74	PASS
	2462	Ant1	2483.5	-52.48	2.0	0	42.77	AV	54	PASS
	2462	Ant1	2500.0	-42.09	2.0	0	53.16	PEAK	74	PASS
	2462	Ant1	2500.0	-52.64	2.0	0	42.61	AV	54	PASS

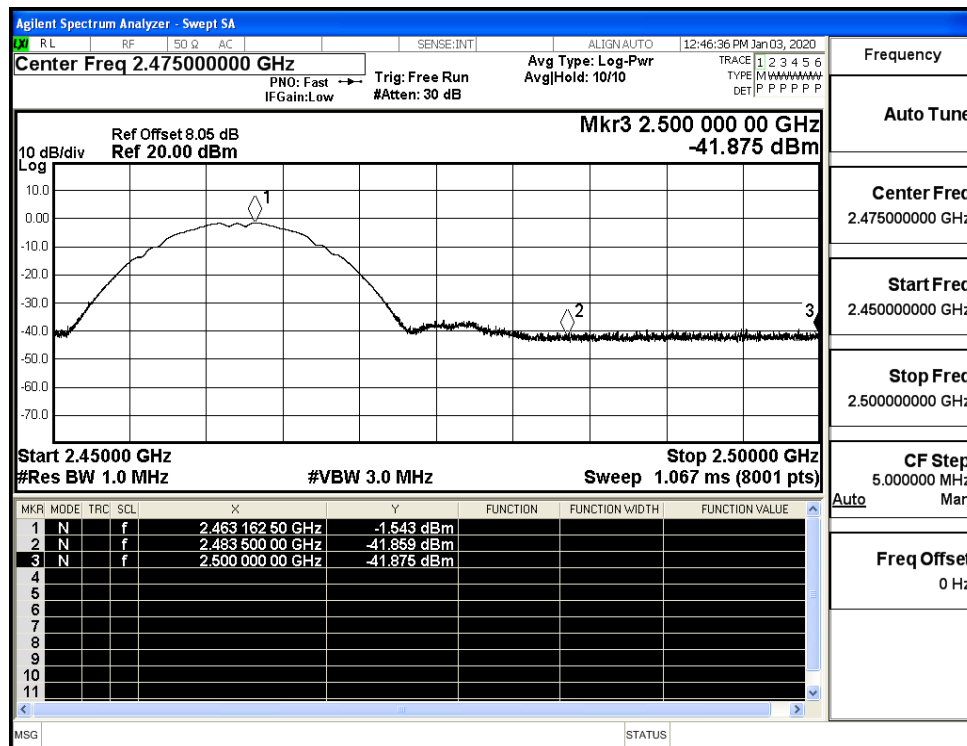
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



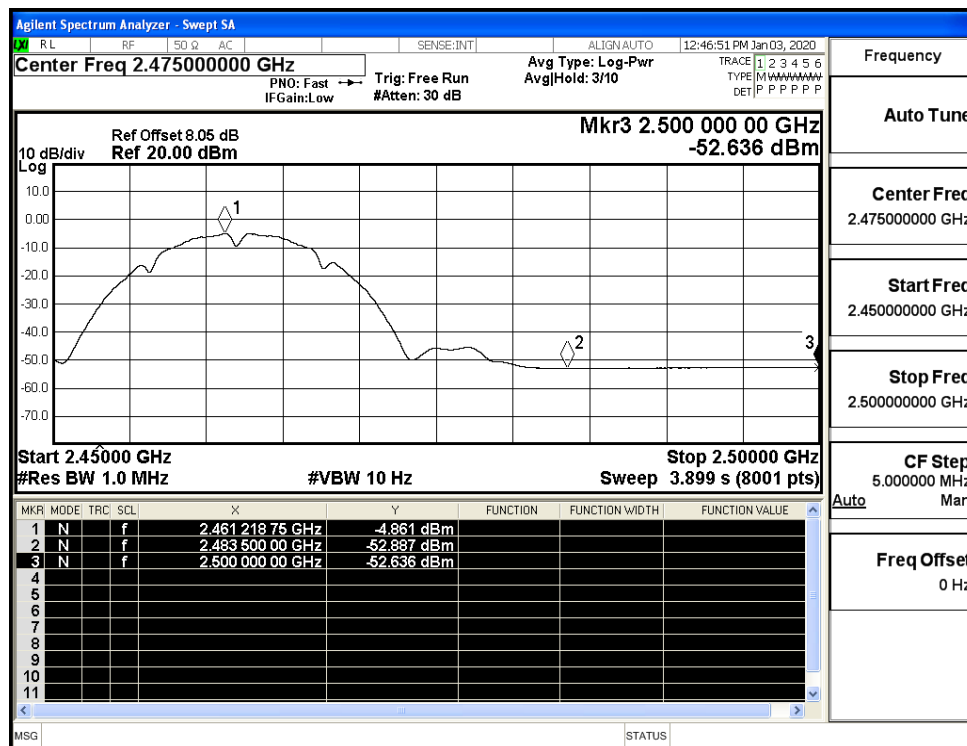
Restrict-band band-edge measurements_11B_2412_Ant1_AV



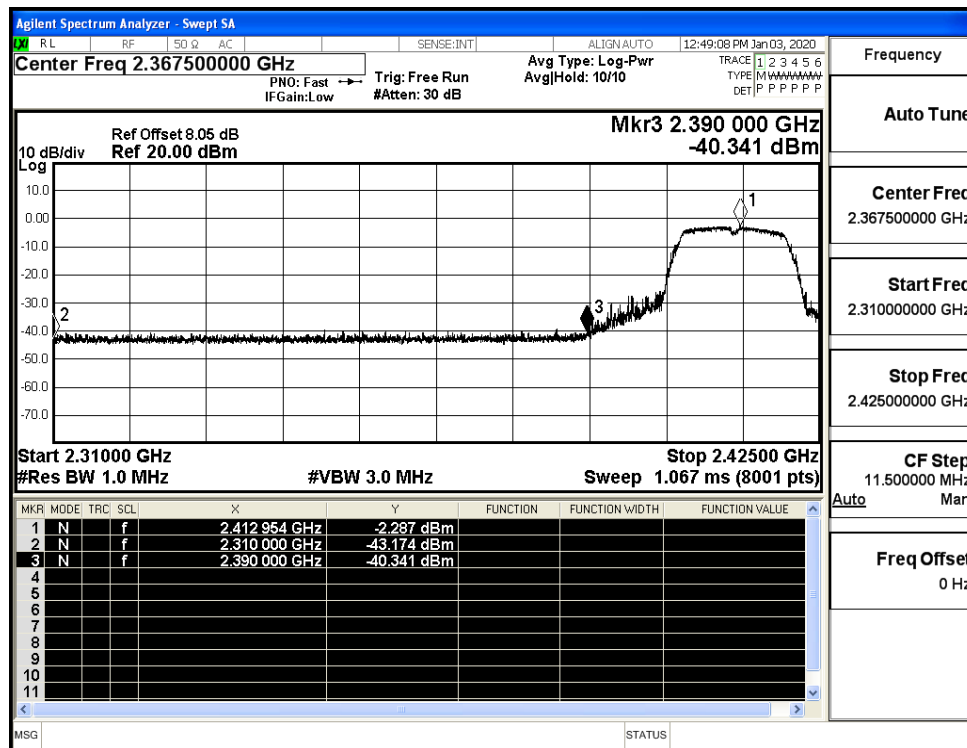
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



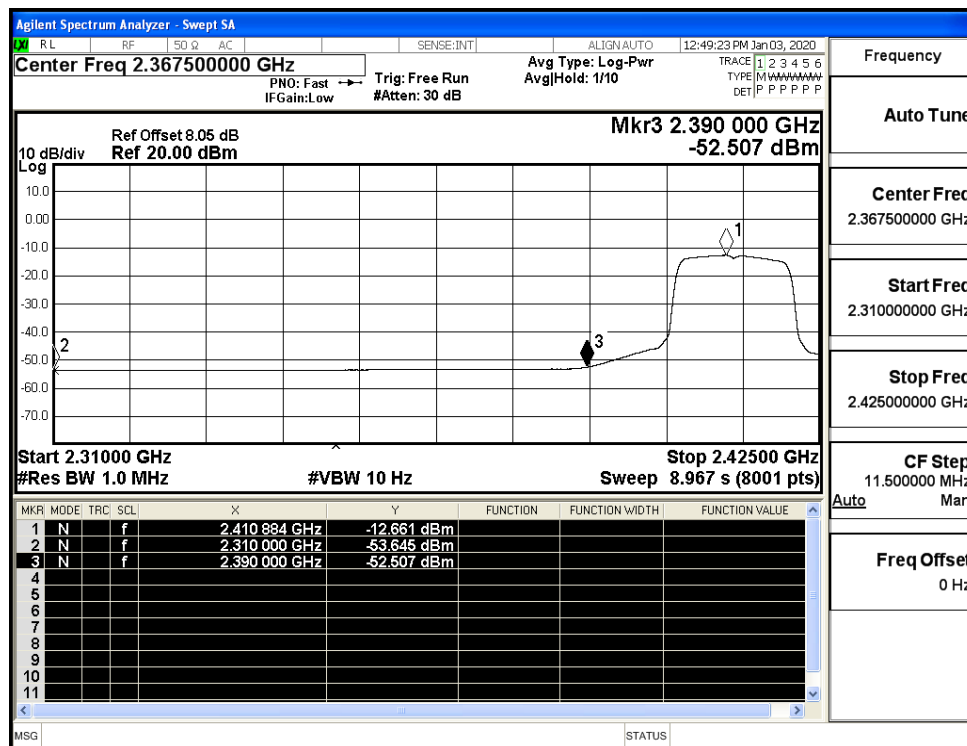
Restrict-band band-edge measurements_11B_2462_Ant1_AV



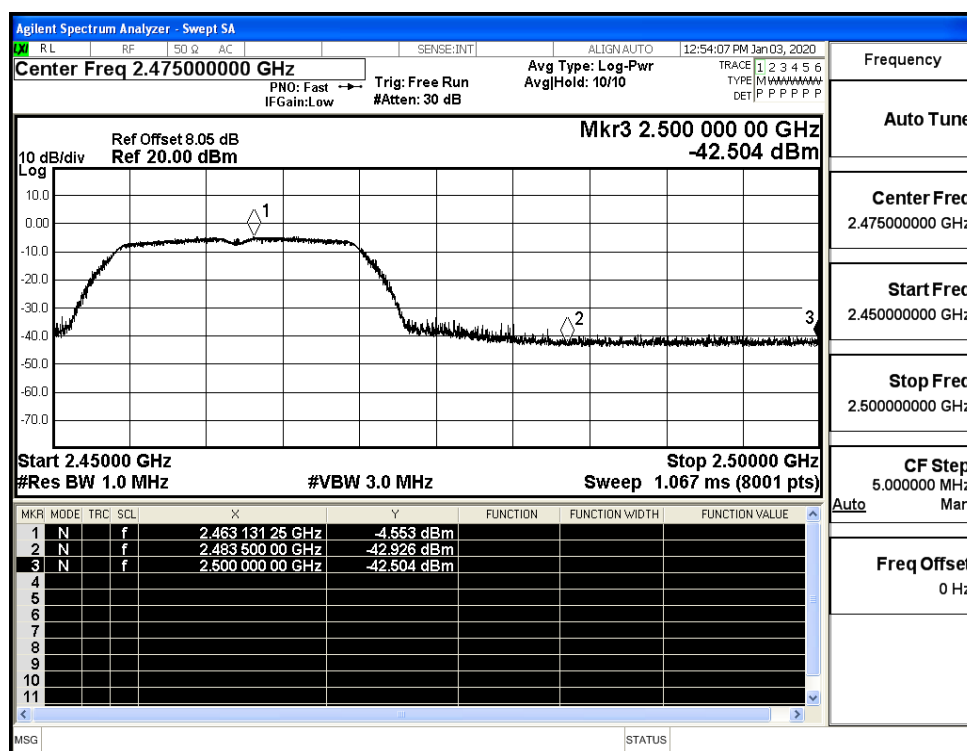
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



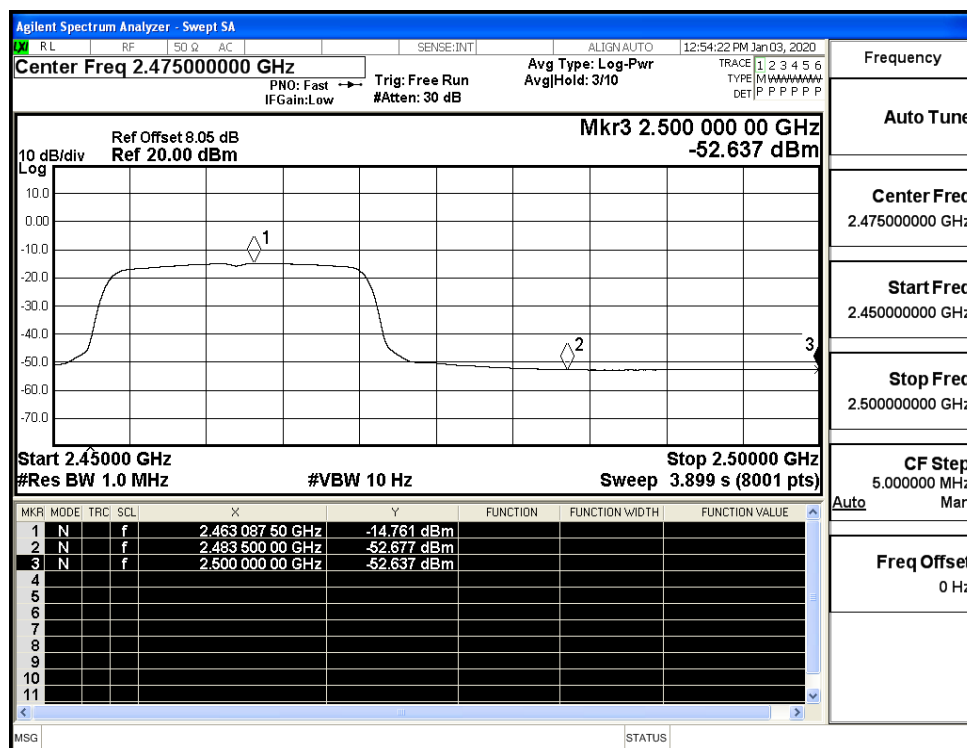
Restrict-band band-edge measurements_11G_2412_Ant1_AV



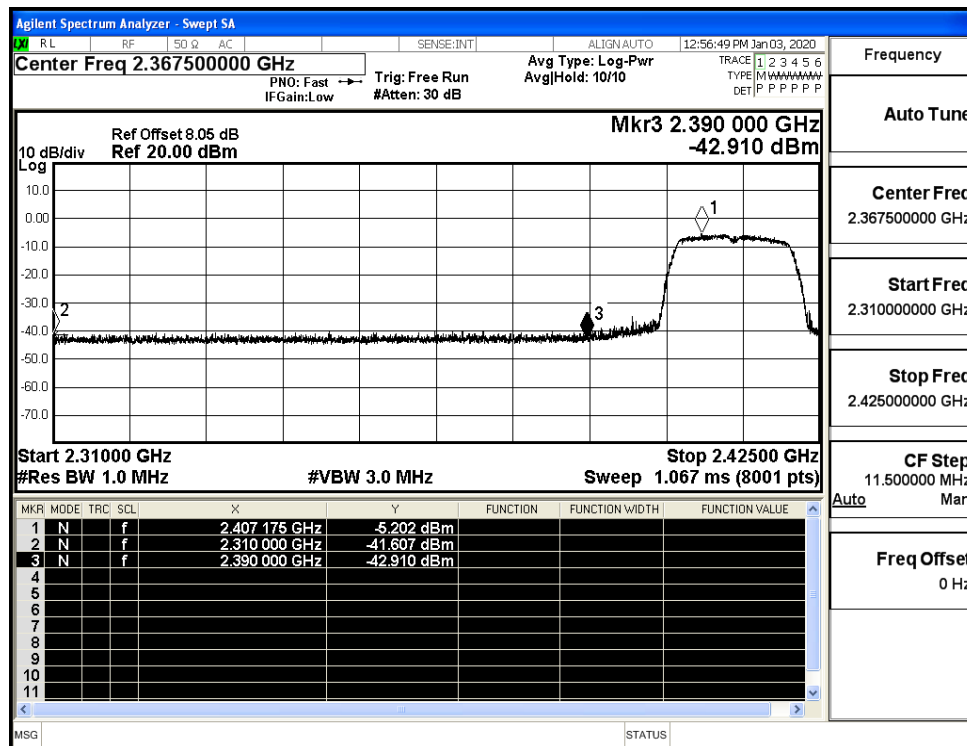
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



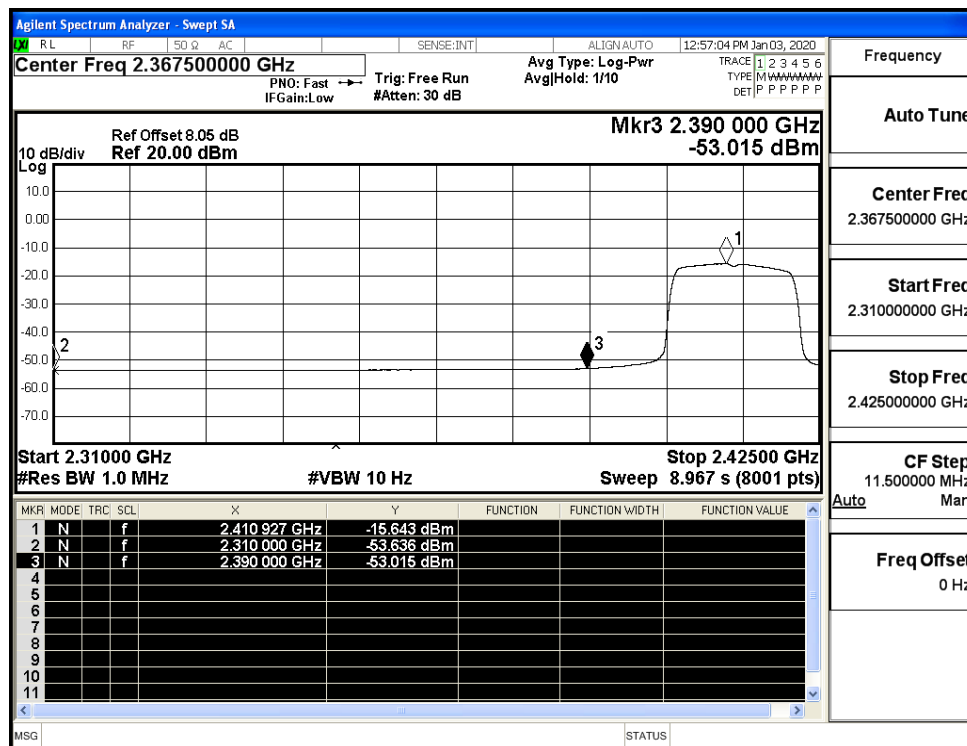
Restrict-band band-edge measurements_11G_2462_Ant1_AV



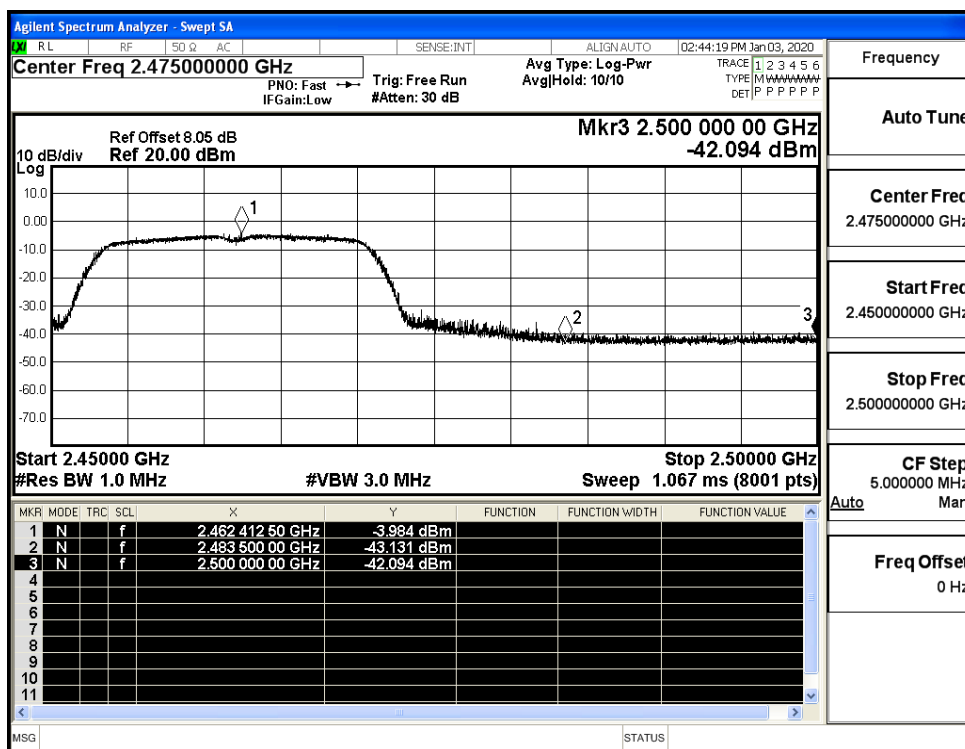
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



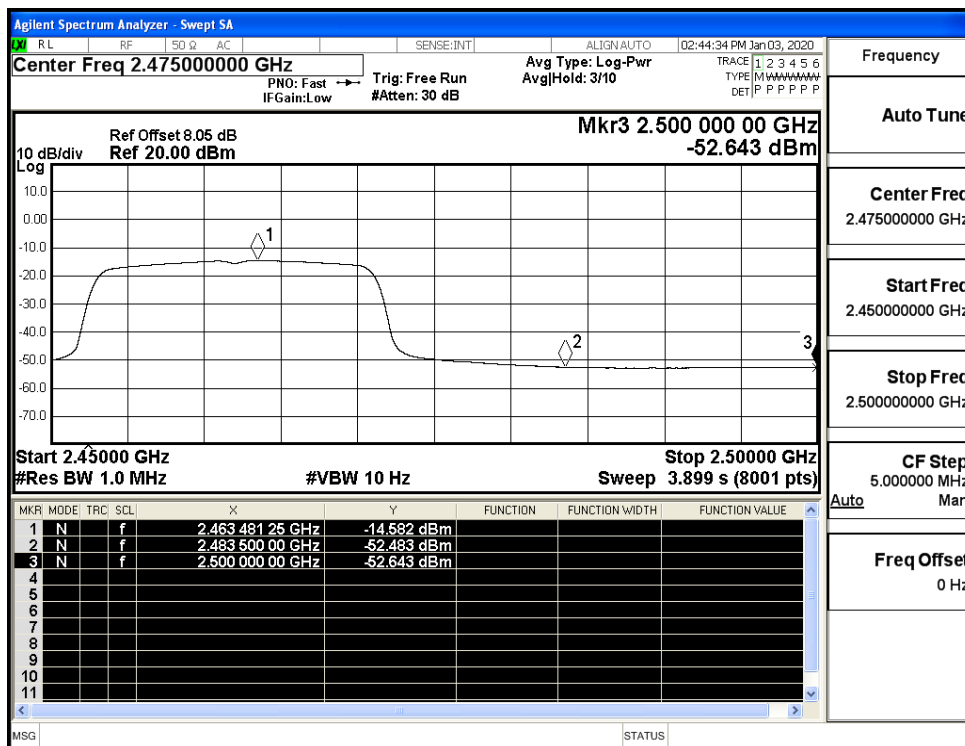
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



Ant0+1

Test Mode	Test Channel	Freq.	ANT 0 Power [dBm]	ANT 1 Power [dBm]	ANT 0+1 Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11N20 SISO	2412	2310.0	-43.83	-41.61	-41.61	3.91	0	58.10	PEAK	74	PASS
	2412	2310.0	-53.62	-53.64	-53.64	3.91	0	47.05	AV	54	PASS
	2412	2390.0	-42.30	-42.91	-42.91	3.91	0	58.09	PEAK	74	PASS
	2412	2390.0	-52.68	-53.02	-53.02	3.91	0	47.83	AV	54	PASS
	2462	2483.5	-42.16	-43.13	-43.13	3.91	0	58.06	PEAK	74	PASS
	2462	2483.5	-52.45	-52.48	-52.48	3.91	0	48.22	AV	54	PASS
	2462	2500.0	-42.51	-42.09	-42.09	3.91	0	58.39	PEAK	74	PASS
	2462	2500.0	-52.59	-52.64	-52.64	3.91	0	48.07	AV	54	PASS

$E \text{ [dBuV/m]} = \text{Power [dBm]} + \text{Gain} + \text{Ground Factor} + 93.76$

The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater

Directional gain = $0.9 \text{ dBi} + 10 \log(2) = 3.91 \text{ dBi}$