

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: Acer

Test Model: Acer One 7 4G

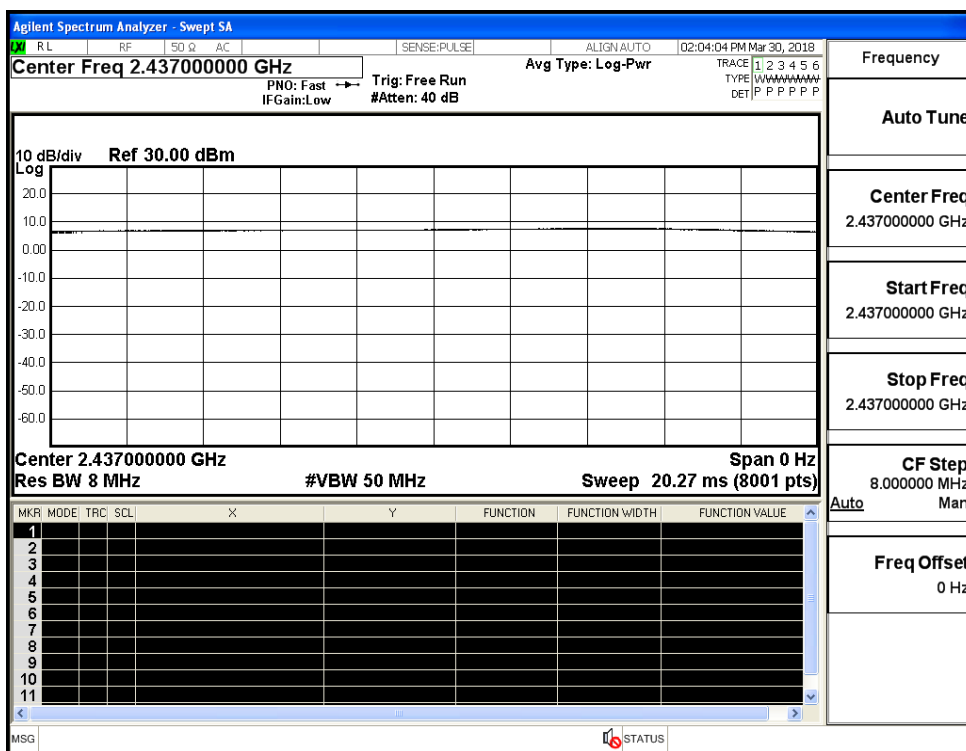
Environmental Conditions

Temperature:	22.3 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WILSON HONG
Supervised by:	Dick.Su

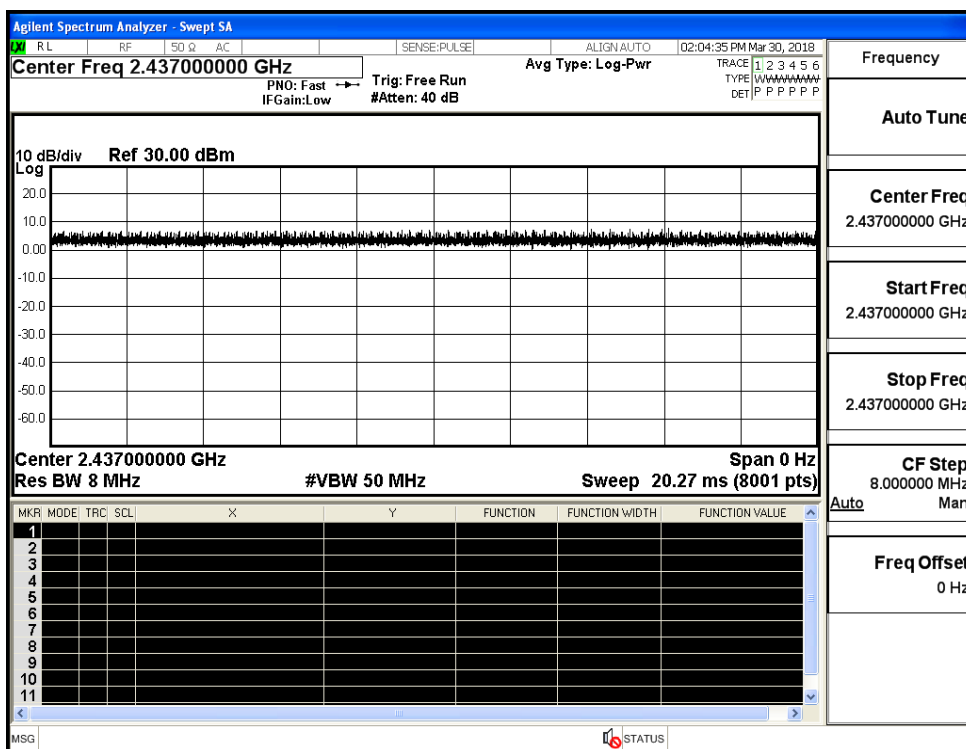
C.1 Duty Cycle

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

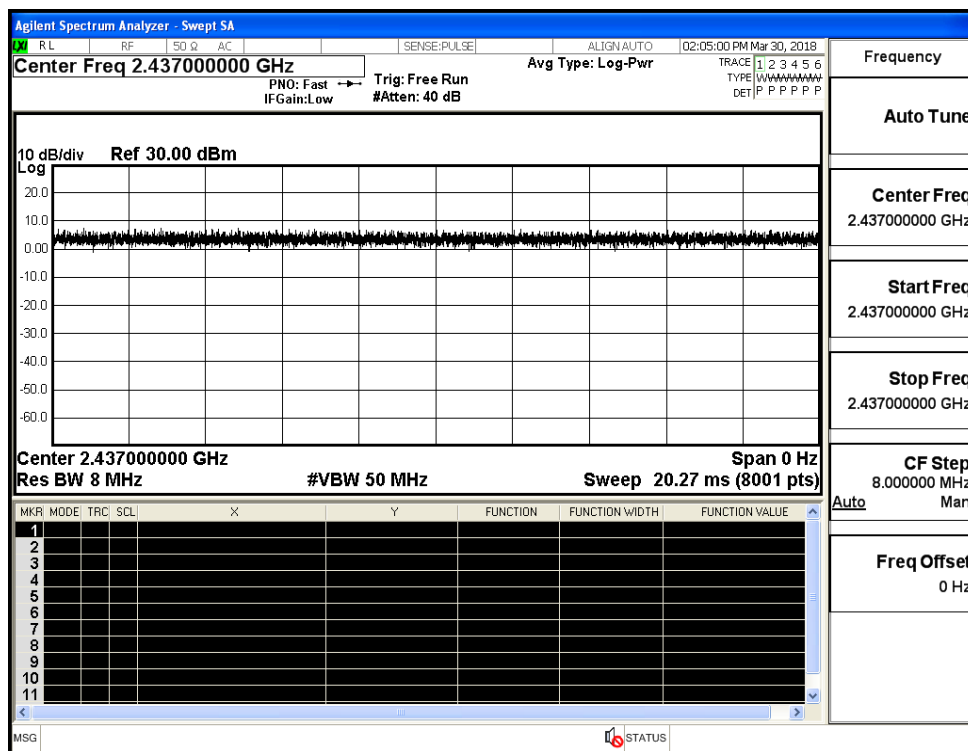
Duty Cycle_11B_2437_Ant1



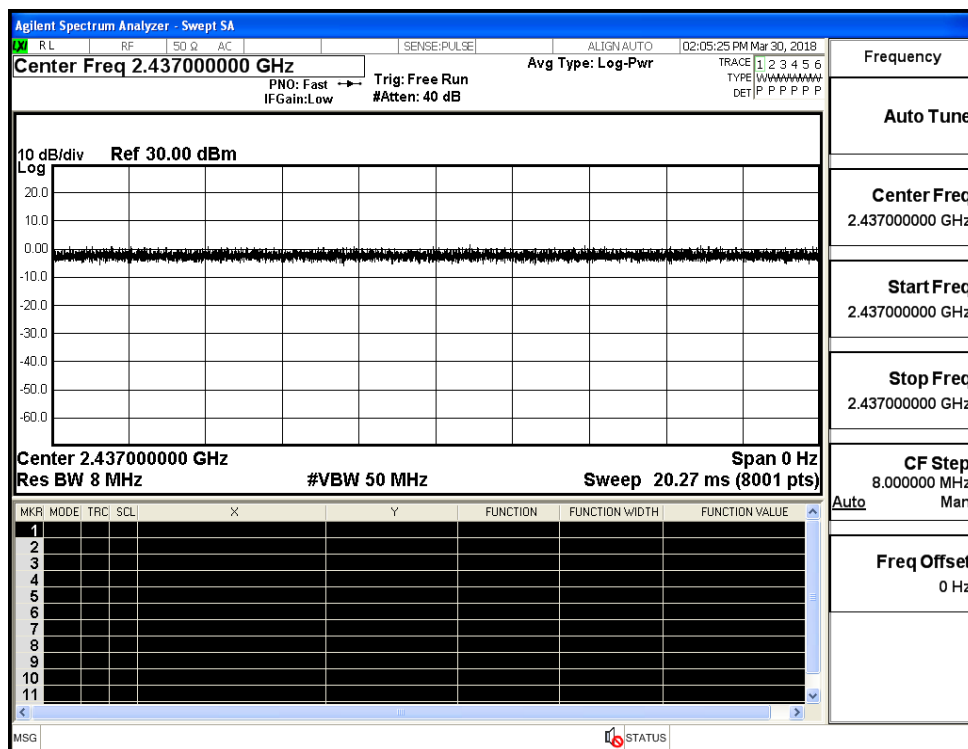
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



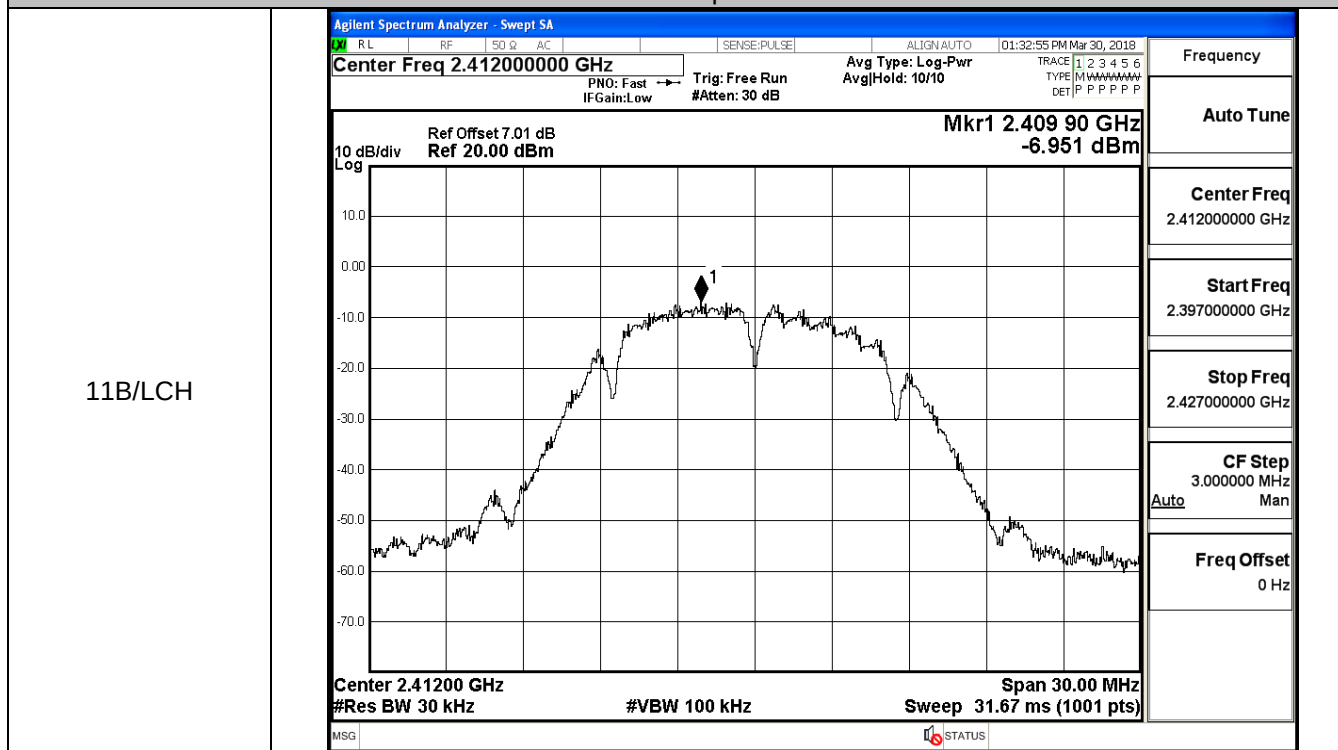
Duty Cycle_11N40SISO_2437_Ant1



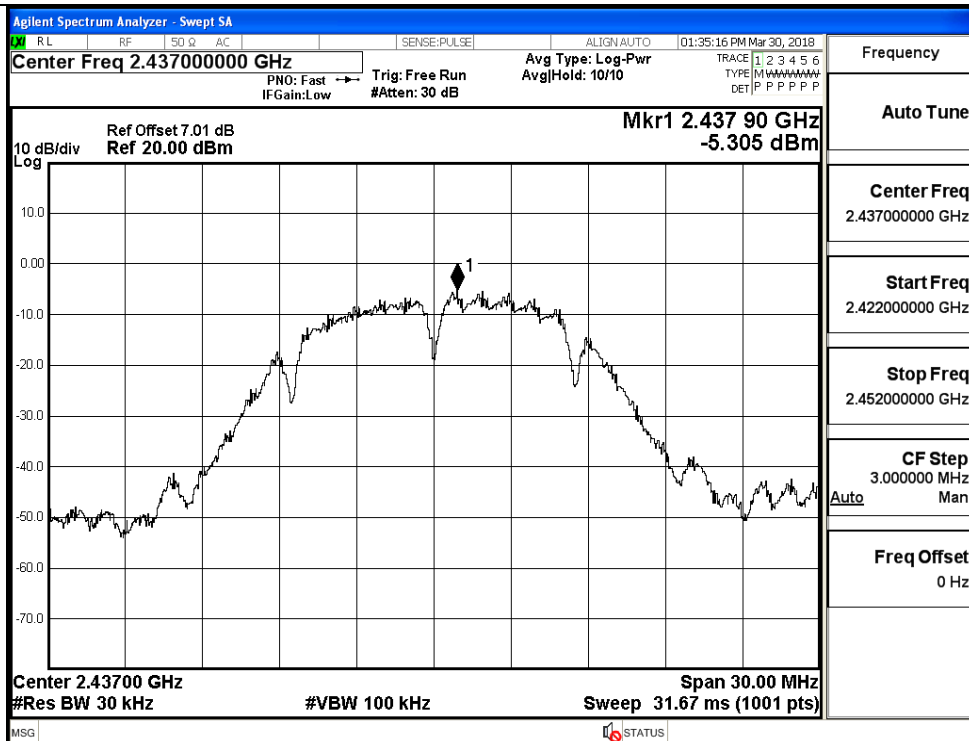
C.2 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.951	8	PASS
	MCH	-5.305	8	PASS
	HCH	-6.737	8	PASS
11G	LCH	-8.411	8	PASS
	MCH	-8.454	8	PASS
	HCH	-9.187	8	PASS
11N20SISO	LCH	-9.086	8	PASS
	MCH	-8.585	8	PASS
	HCH	-8.804	8	PASS
11N40SISO	LCH	-12.199	8	PASS
	MCH	-10.604	8	PASS
	HCH	-10.492	8	PASS

Test Graphs



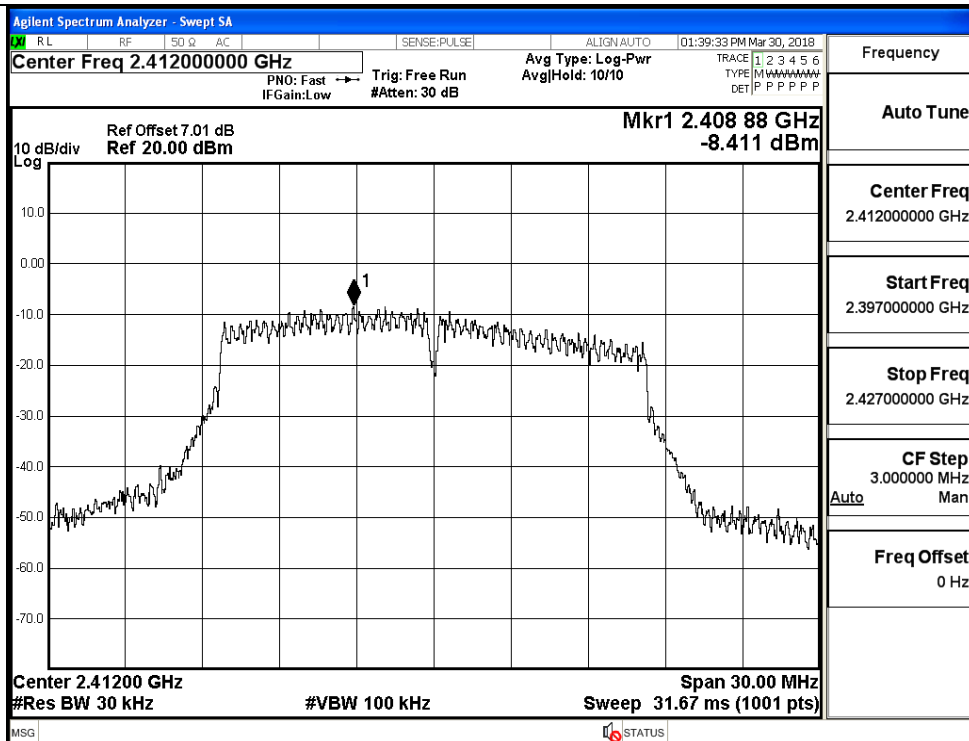
11B/MCH



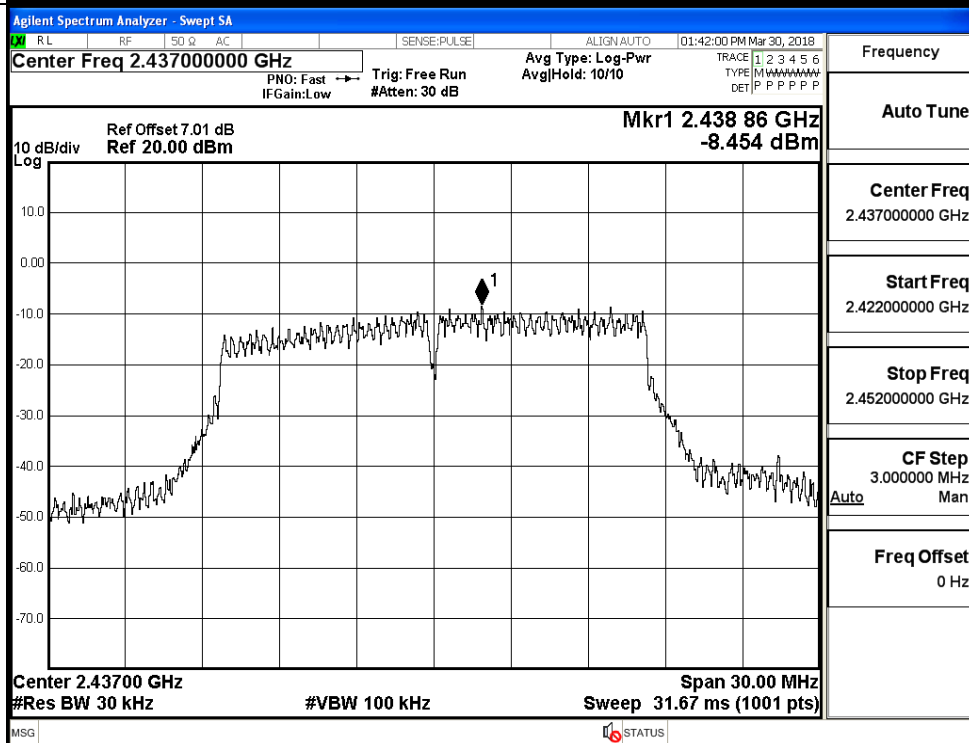
11B/HCH



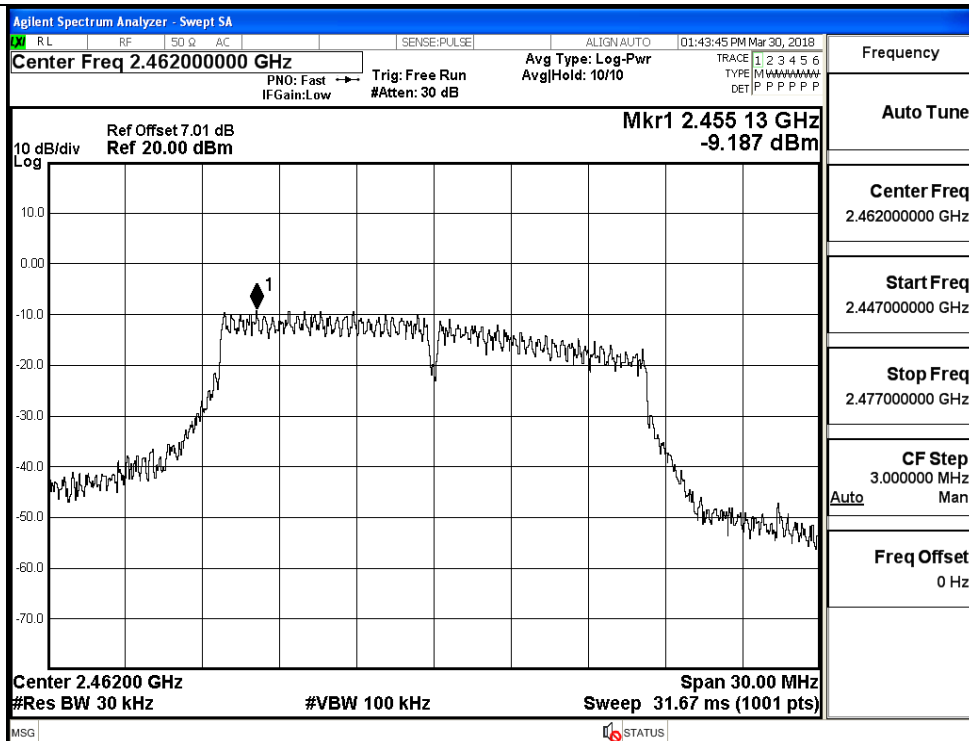
11G/LCH



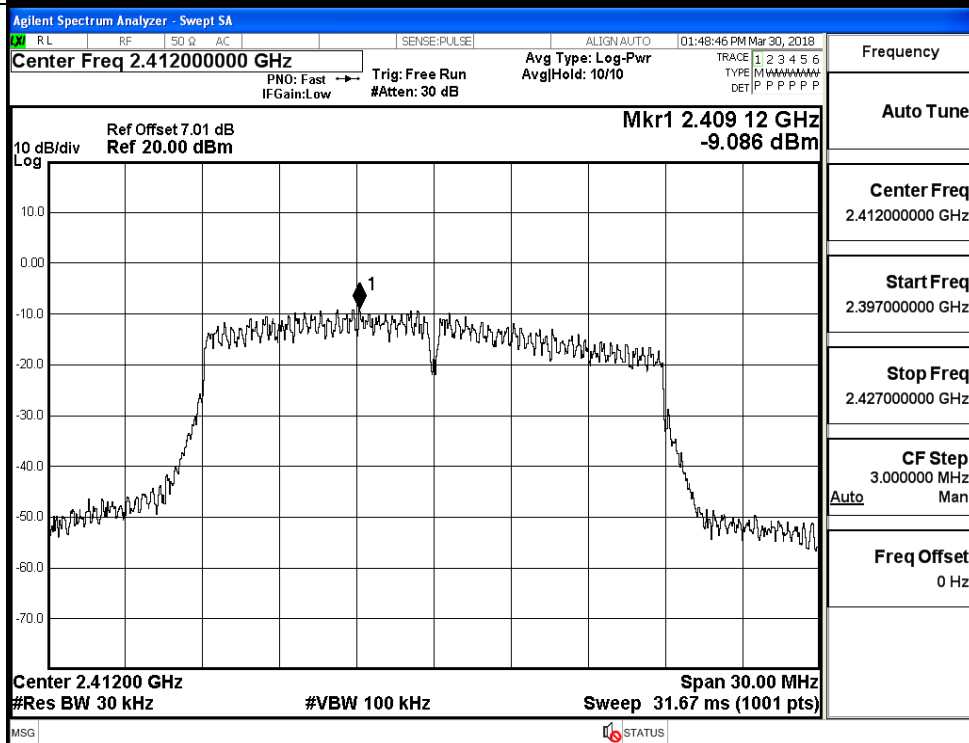
11G/MCH

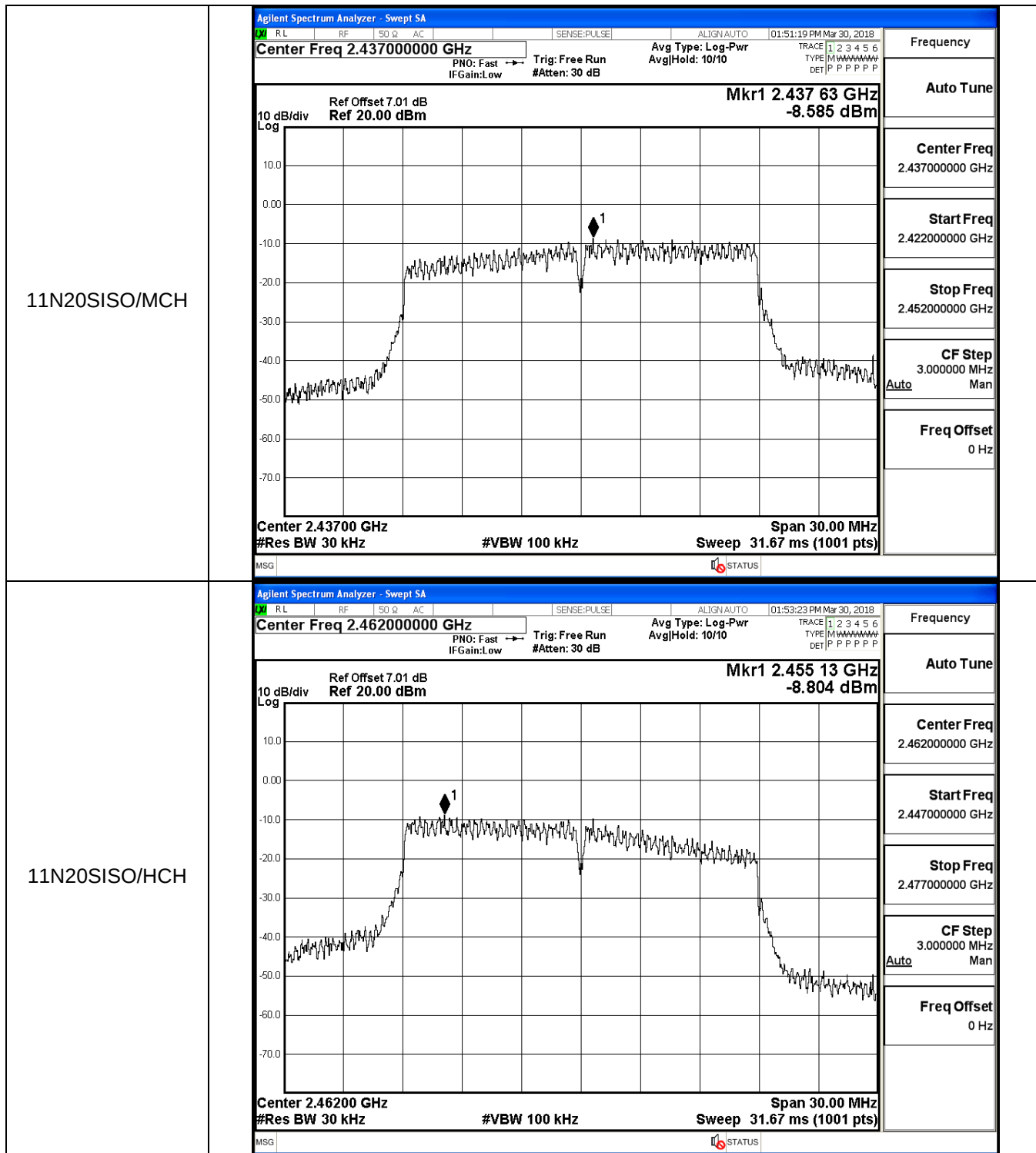


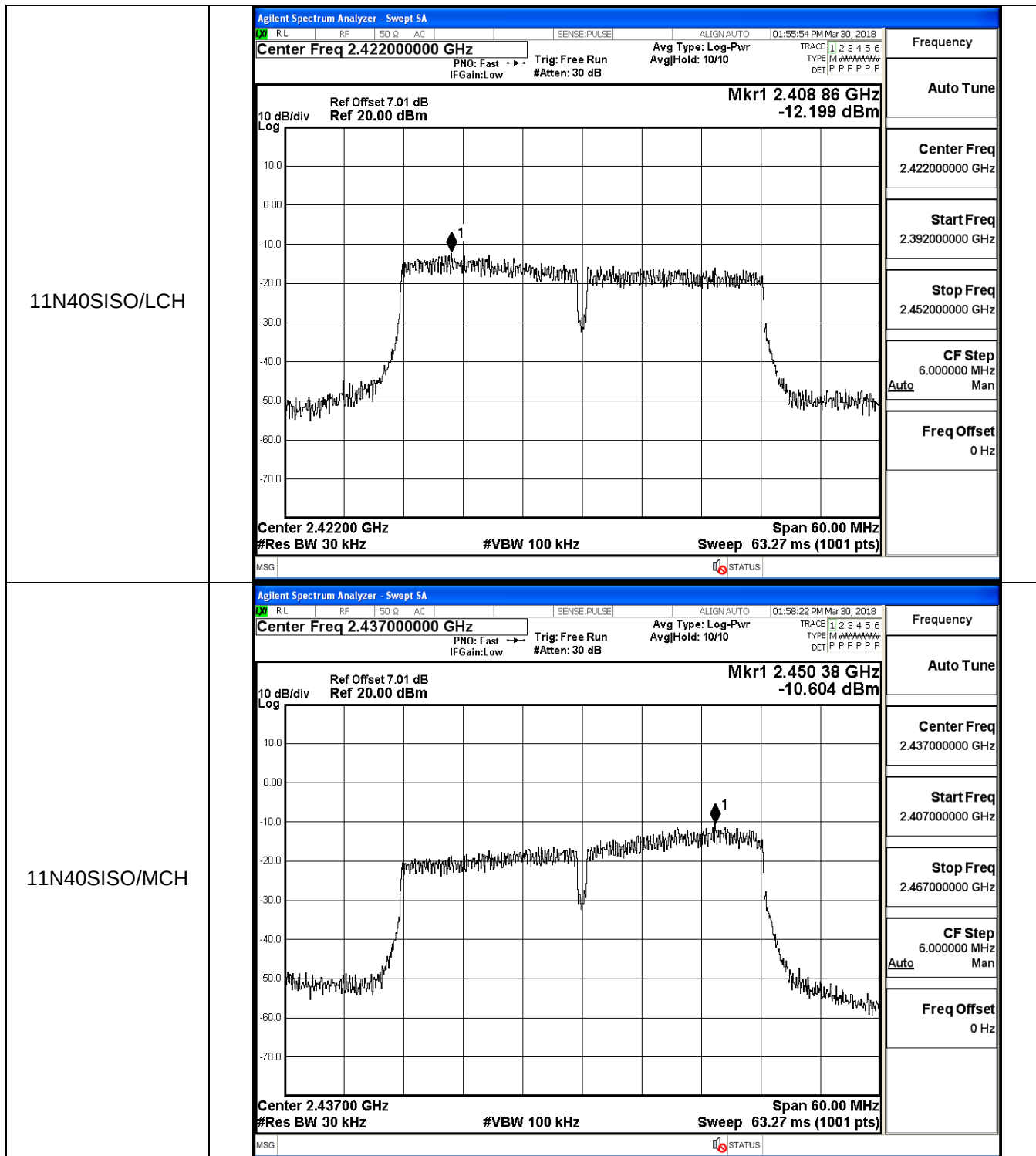
11G/HCH



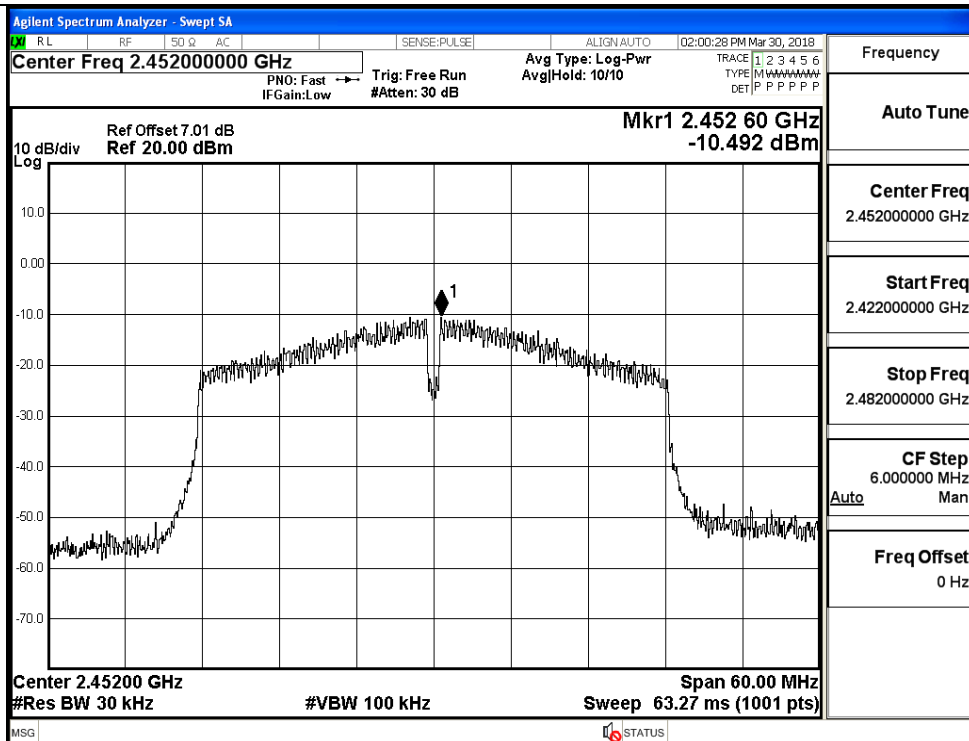
11N20SISO/LCH







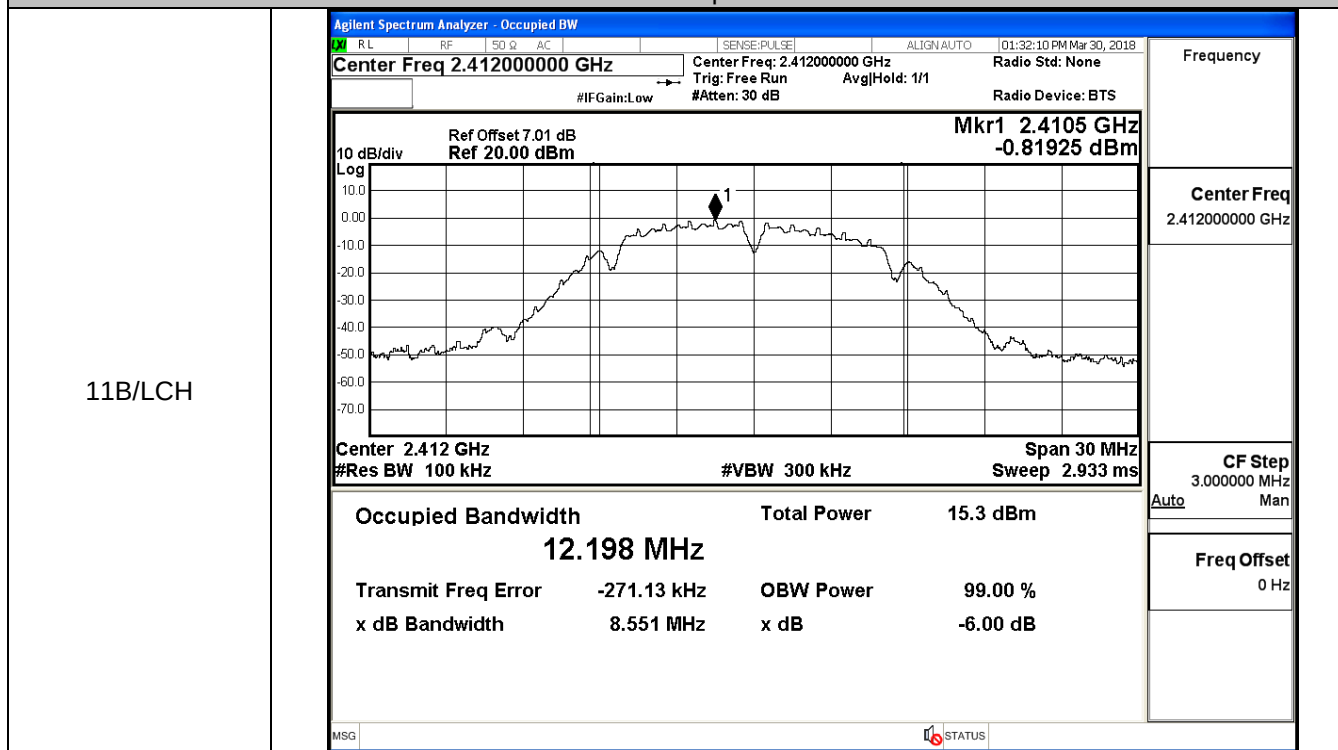
11N40SISO/HCH



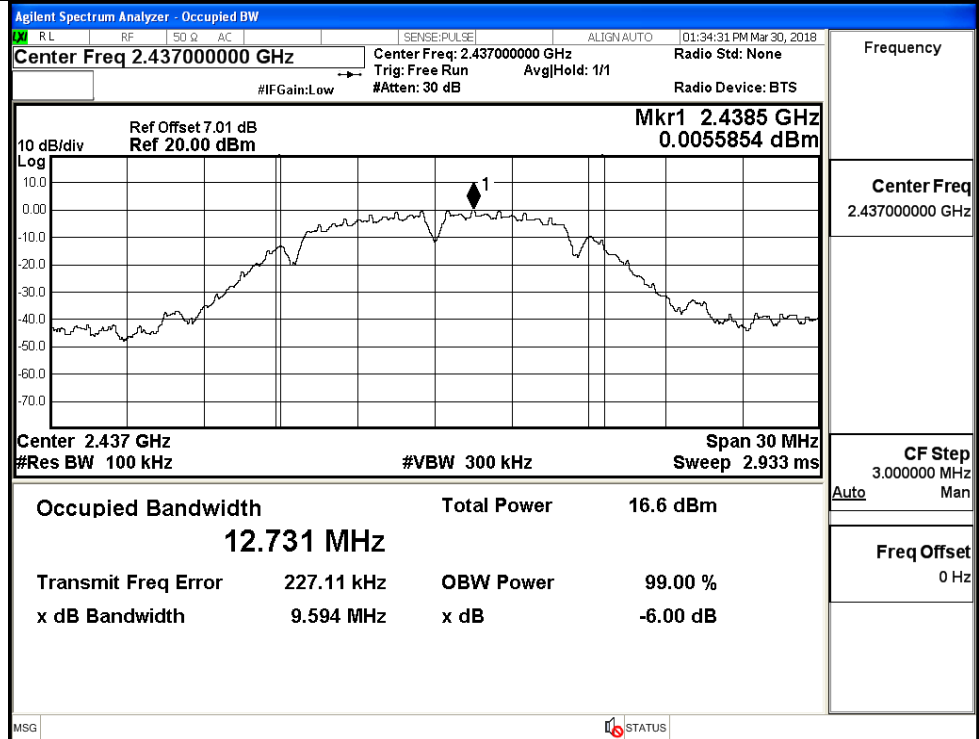
C.3 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.551	≥ 0.5	PASS
	MCH	9.594	≥ 0.5	PASS
	HCH	8.646	≥ 0.5	PASS
11G	LCH	15.11	≥ 0.5	PASS
	MCH	16.45	≥ 0.5	PASS
	HCH	13.60	≥ 0.5	PASS
11N20SISO	LCH	14.21	≥ 0.5	PASS
	MCH	17.70	≥ 0.5	PASS
	HCH	12.72	≥ 0.5	PASS
11N40SISO	LCH	36.39	≥ 0.5	PASS
	MCH	22.98	≥ 0.5	PASS
	HCH	21.42	≥ 0.5	PASS

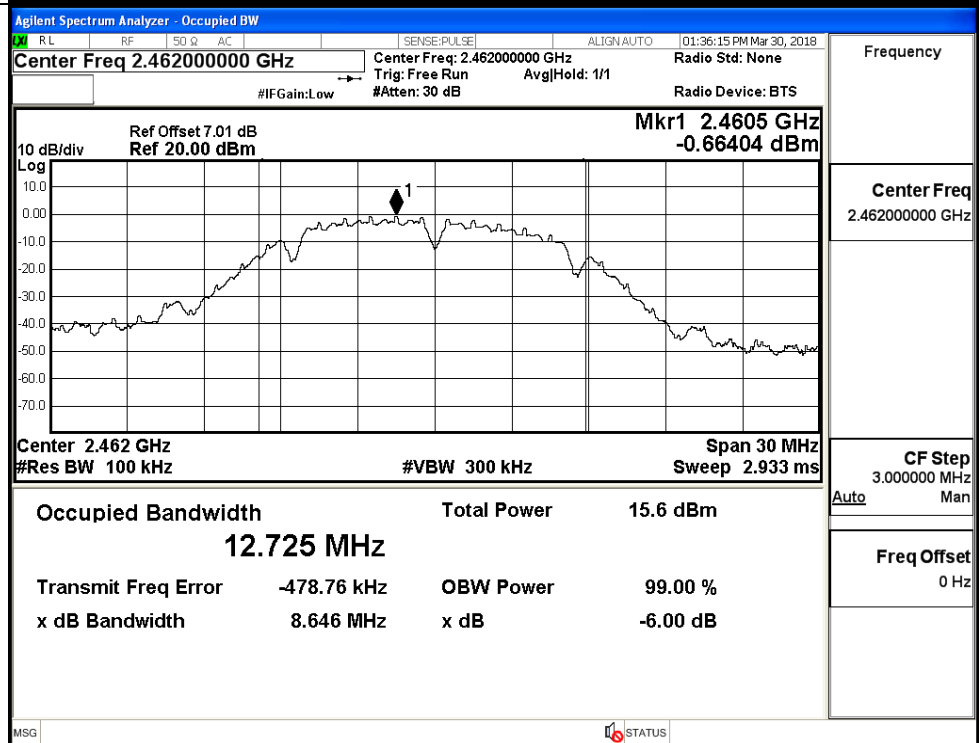
Test Graphs



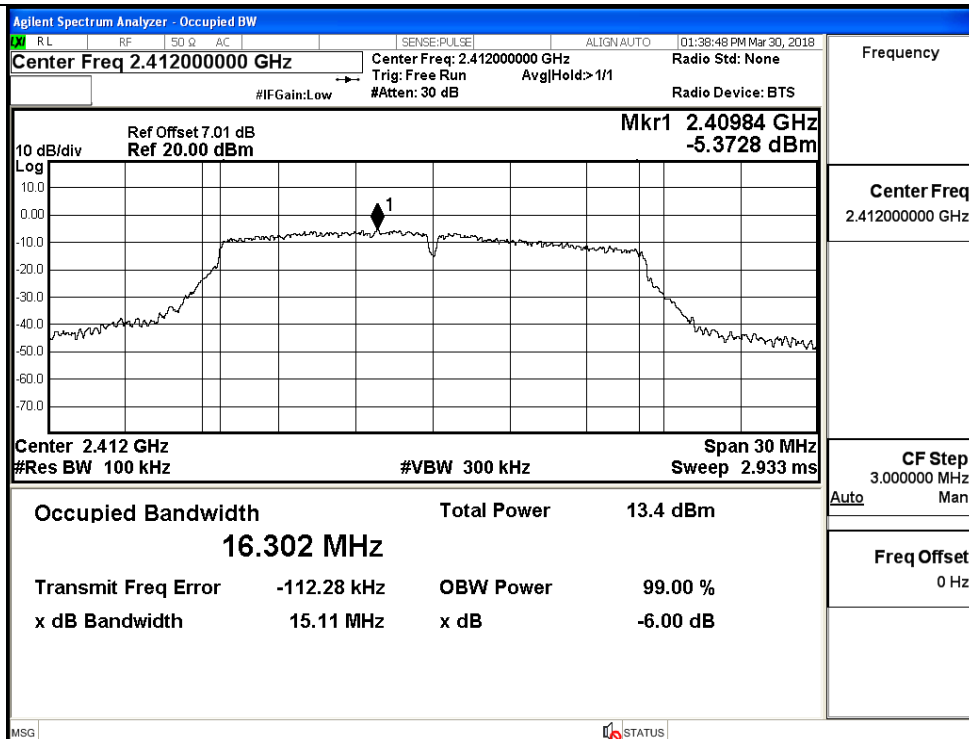
11B/MCH



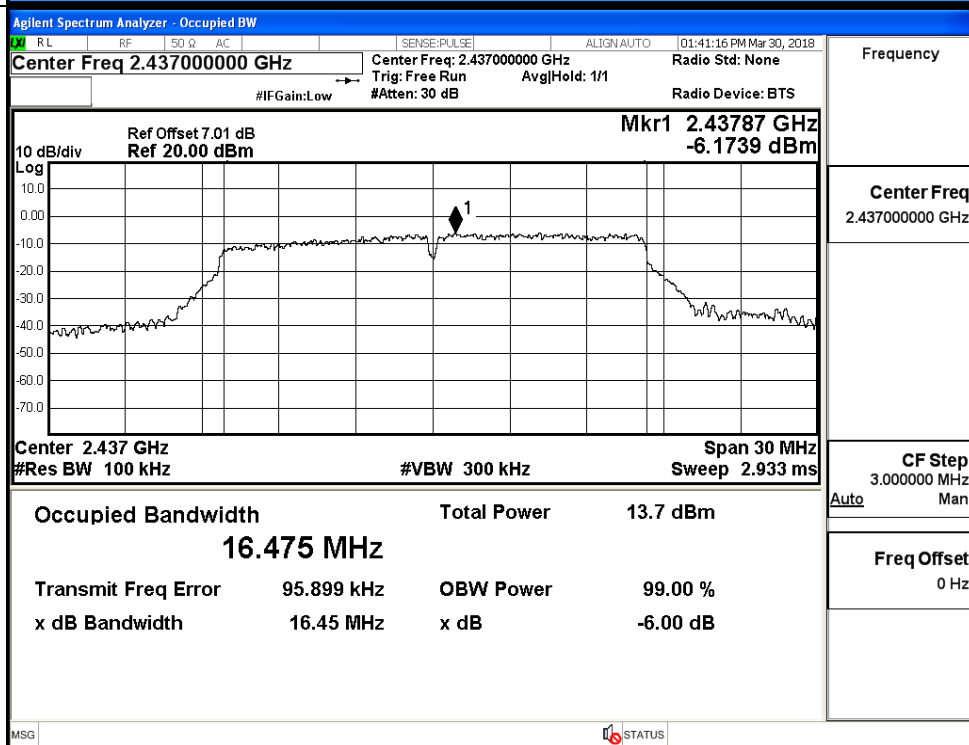
11B/HCH



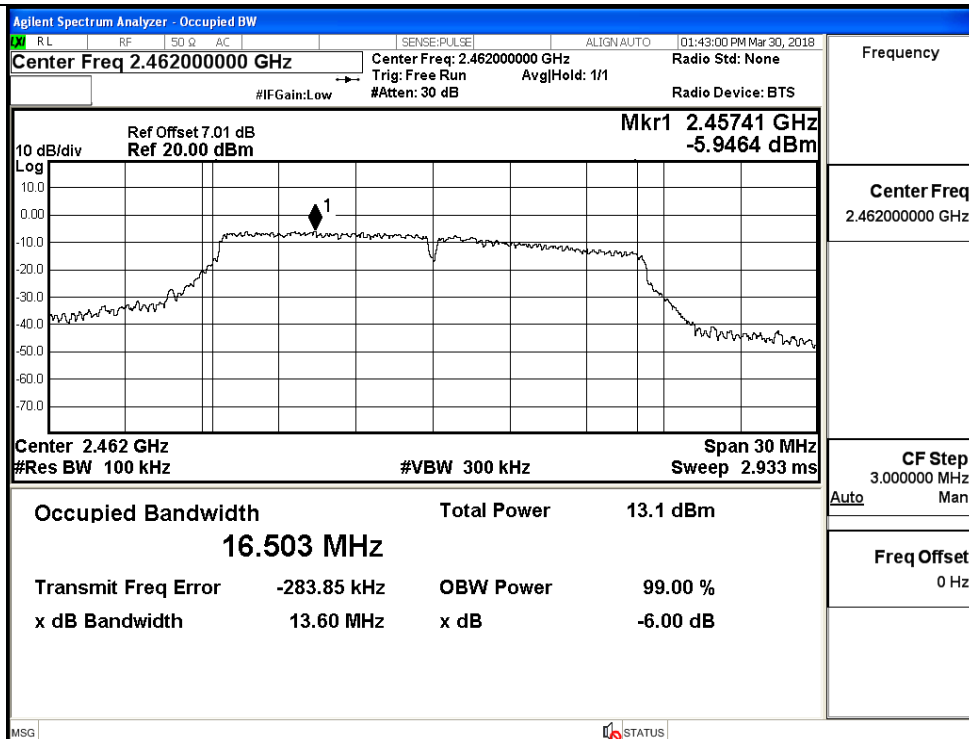
11G/LCH



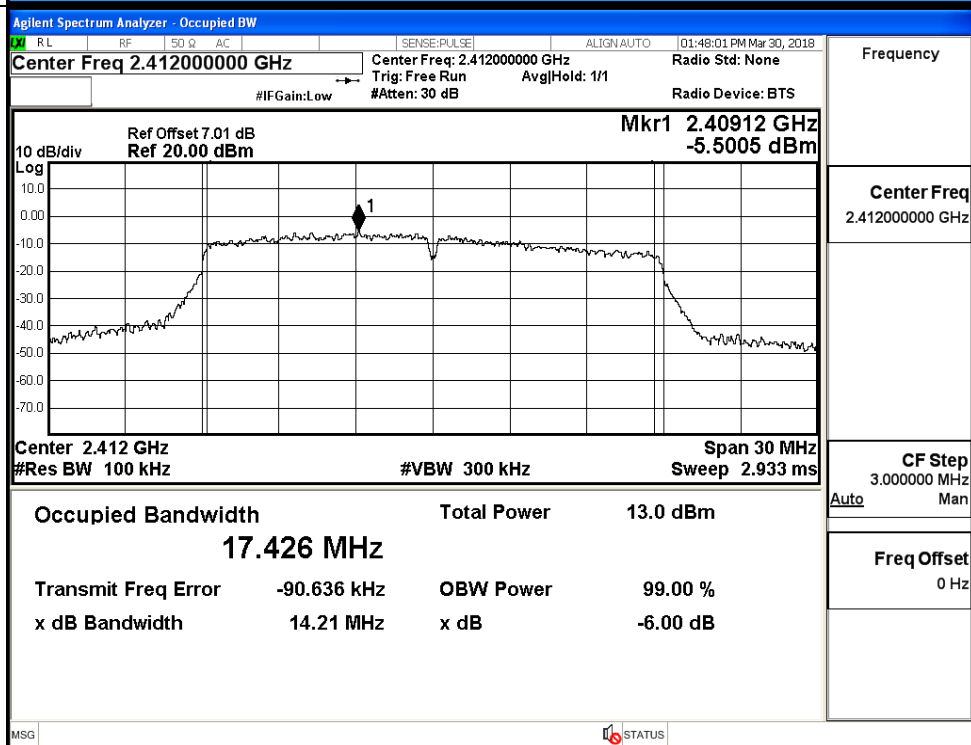
11G/MCH



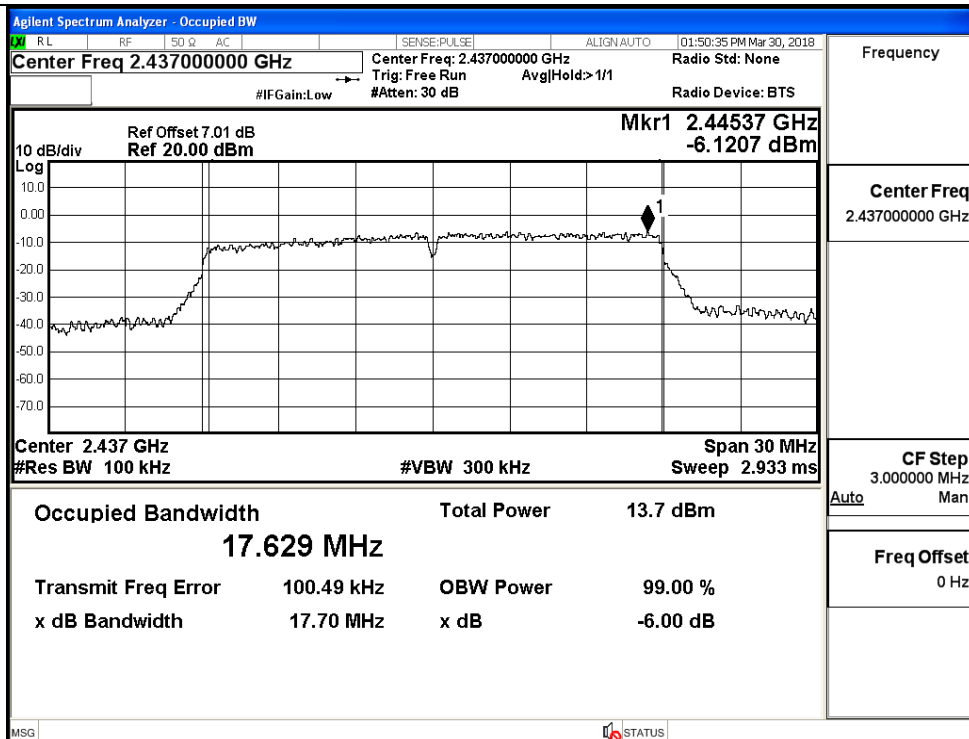
11G/HCH



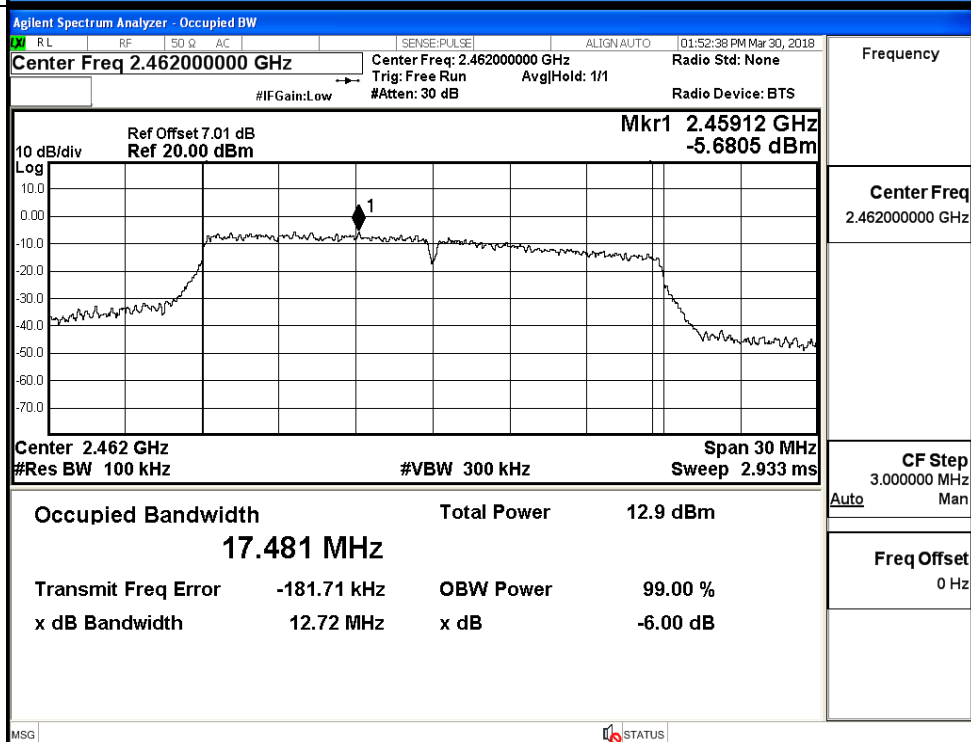
11N20SISO/LCH

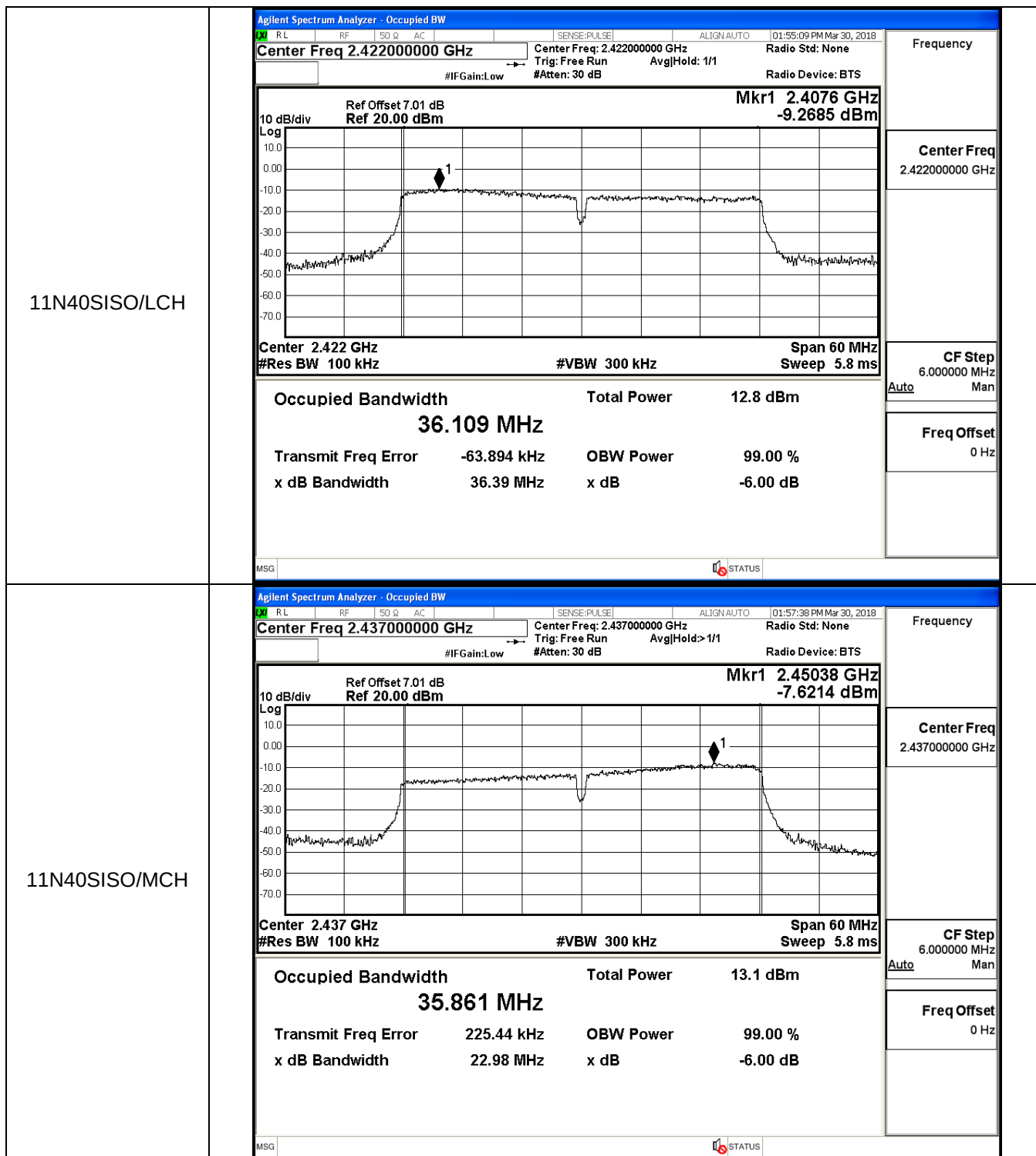


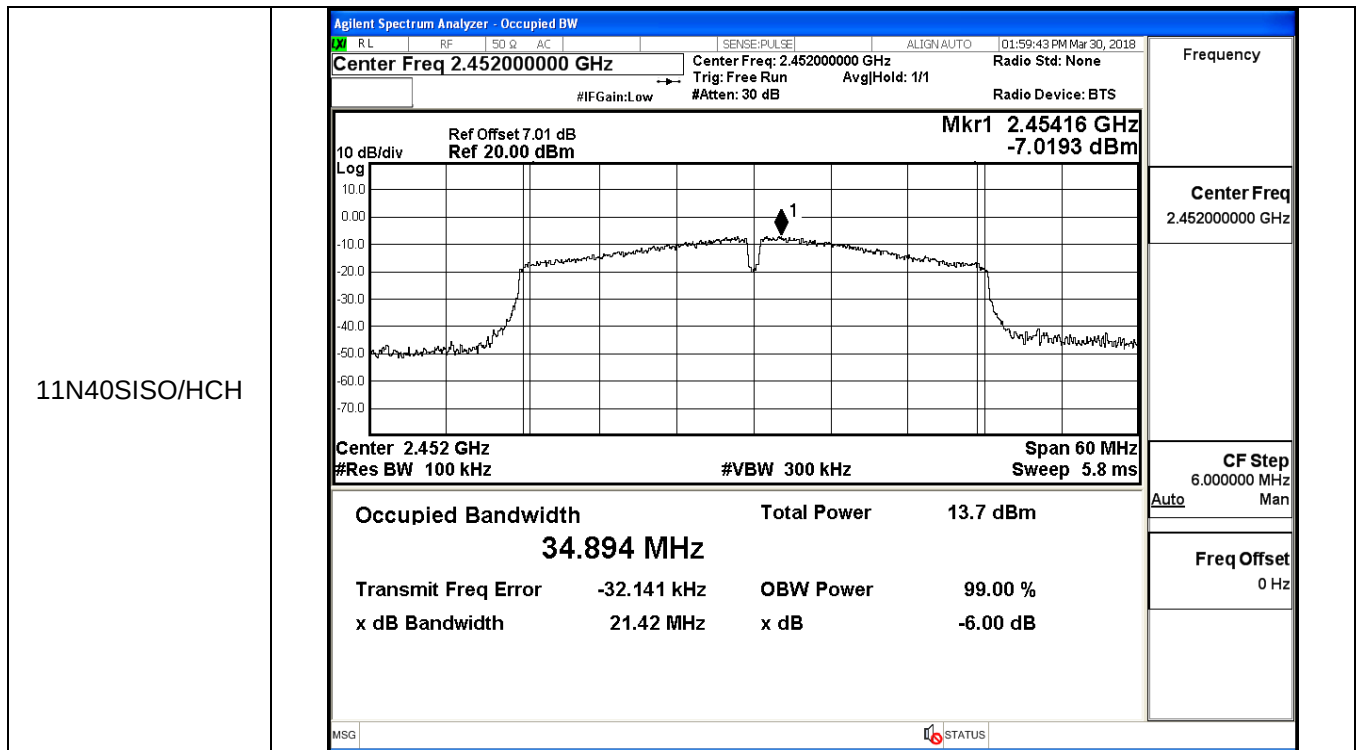
11N20SISO/MCH



11N20SISO/HCH





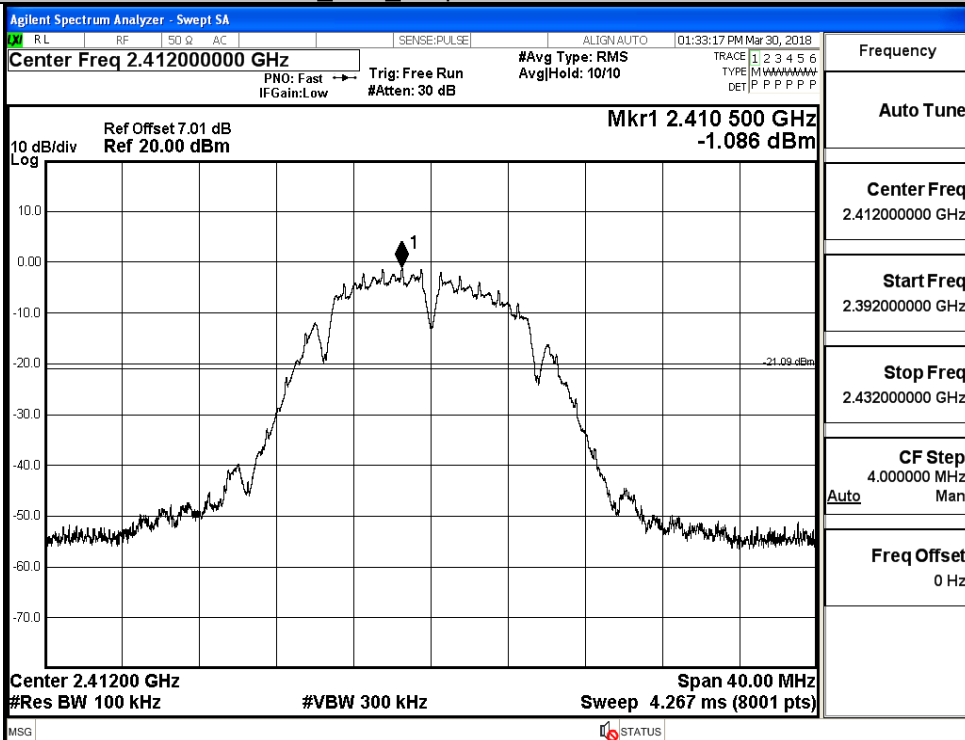


C.4 RF Conducted Spurious Emissions

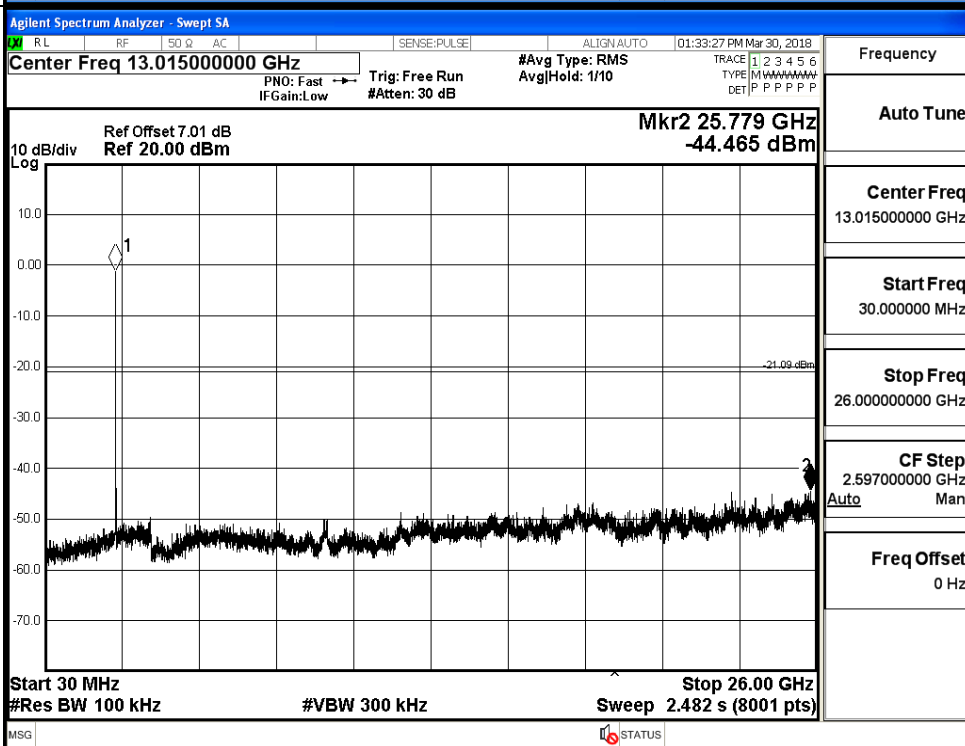
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.086	-44.465	-21.086	PASS
	MCH	-0.032	-44.960	-20.032	PASS
	HCH	-0.866	-43.584	-20.866	PASS
11G	LCH	-5.495	-44.700	-25.495	PASS
	MCH	-6.208	-44.592	-26.208	PASS
	HCH	-6.261	-44.201	-26.261	PASS
11N20 SISO	LCH	-5.713	-43.839	-25.713	PASS
	MCH	-6.159	-44.701	-26.159	PASS
	HCH	-5.998	-44.402	-25.998	PASS
11N40 SISO	LCH	-9.352	-43.177	-29.352	PASS
	MCH	-7.629	-44.124	-27.629	PASS
	HCH	-6.962	-44.756	-26.962	PASS

11B LCH Graphs

Pref/11B/LCH

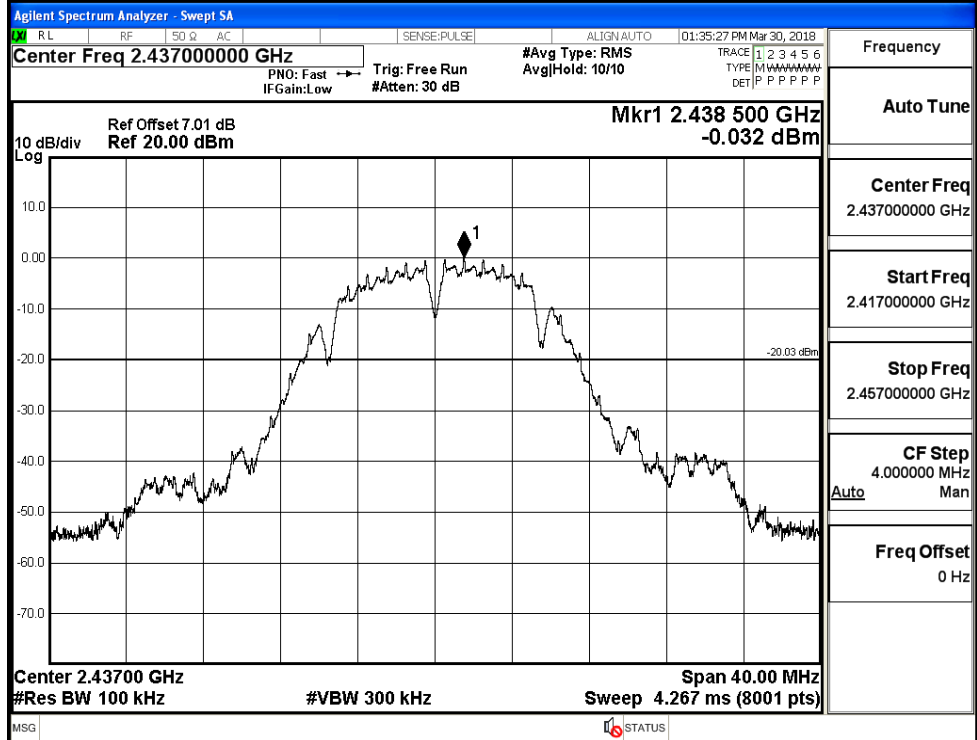


Puw/11B/LCH

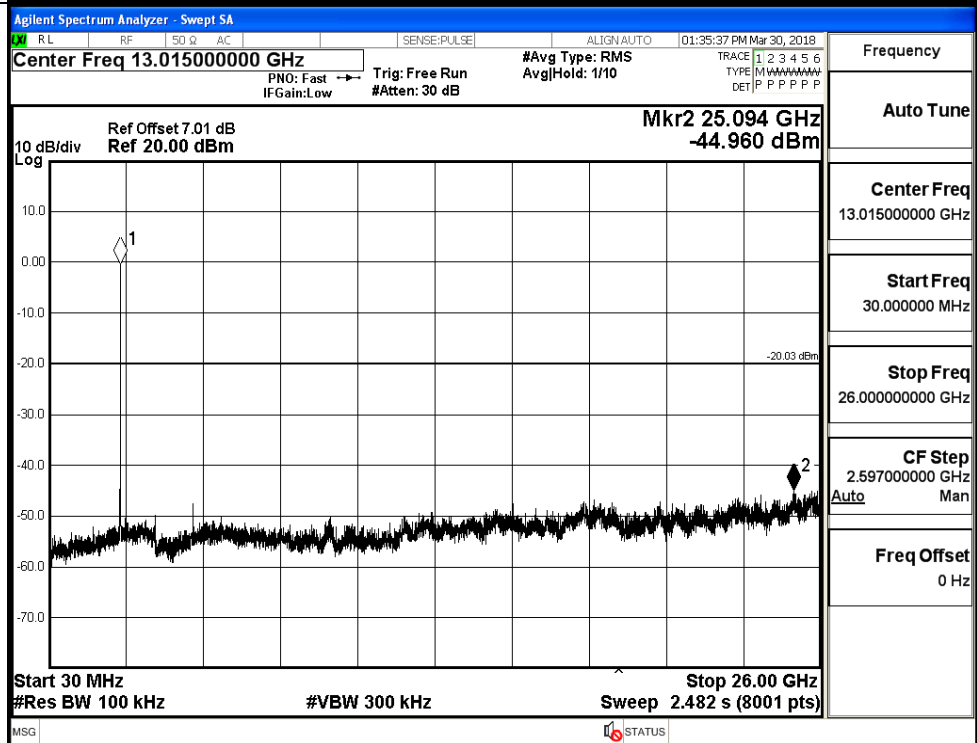


11B MCH Graphs

Pref/11B/MCH

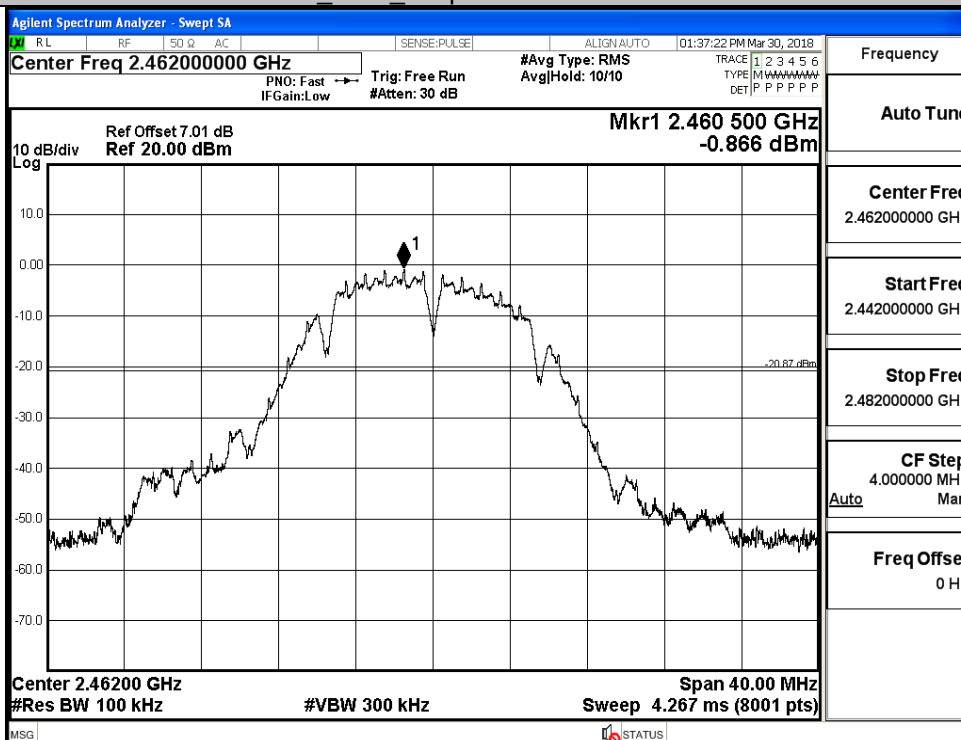


Puw/11B/MCH

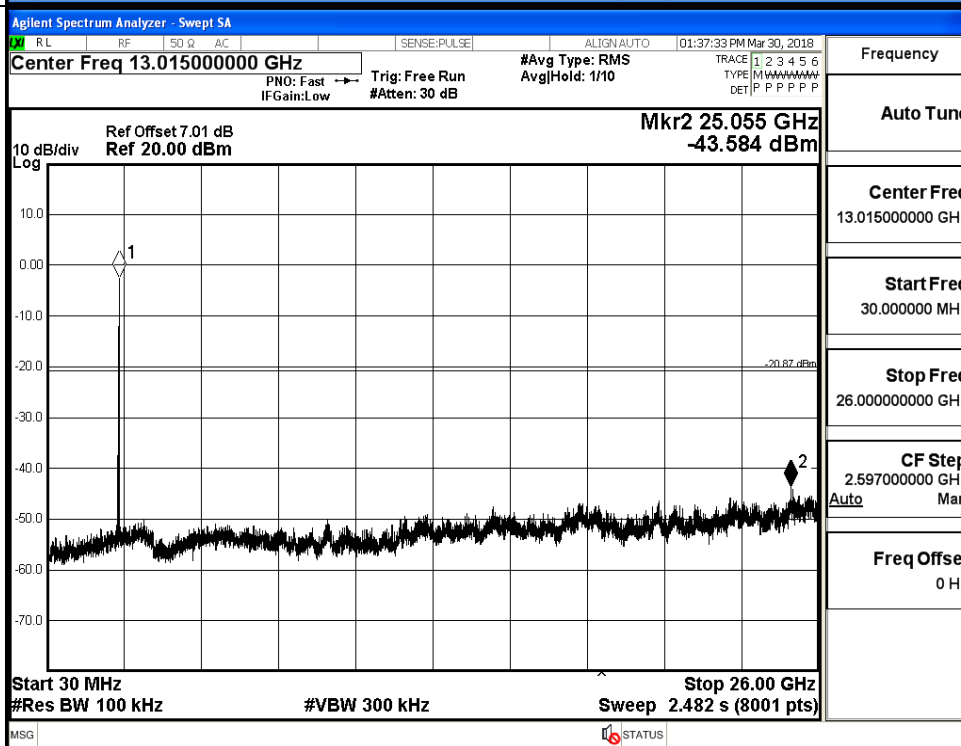


11B HCH Graphs

Pref/11B/HCH

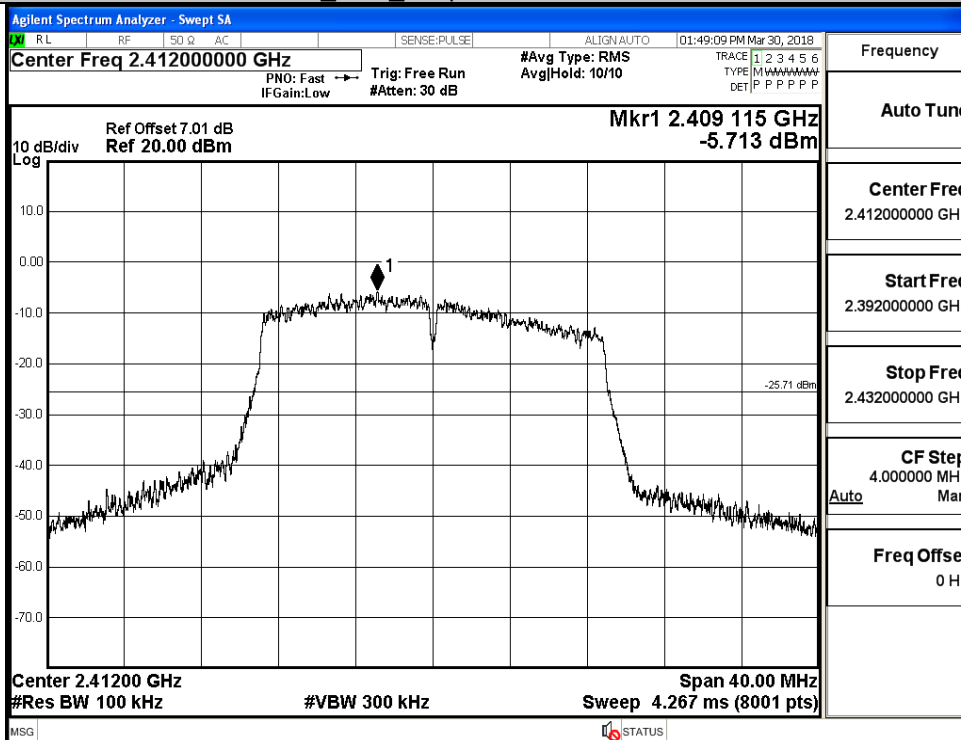


Puw/11B/HCH

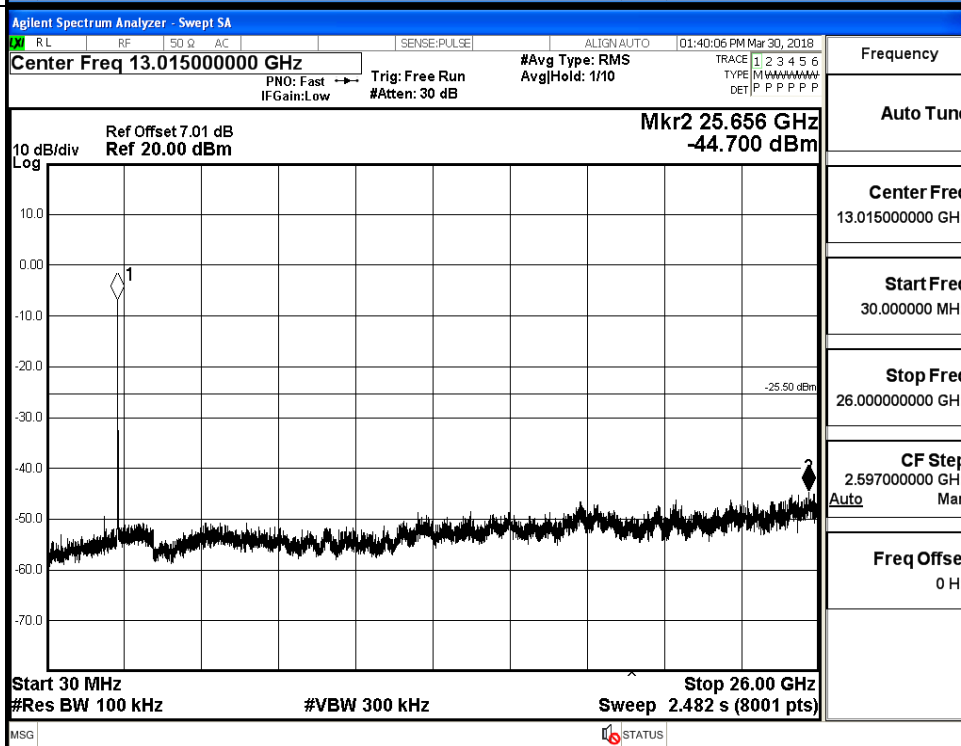


11G LCH Graphs

Pref/11G/LCH

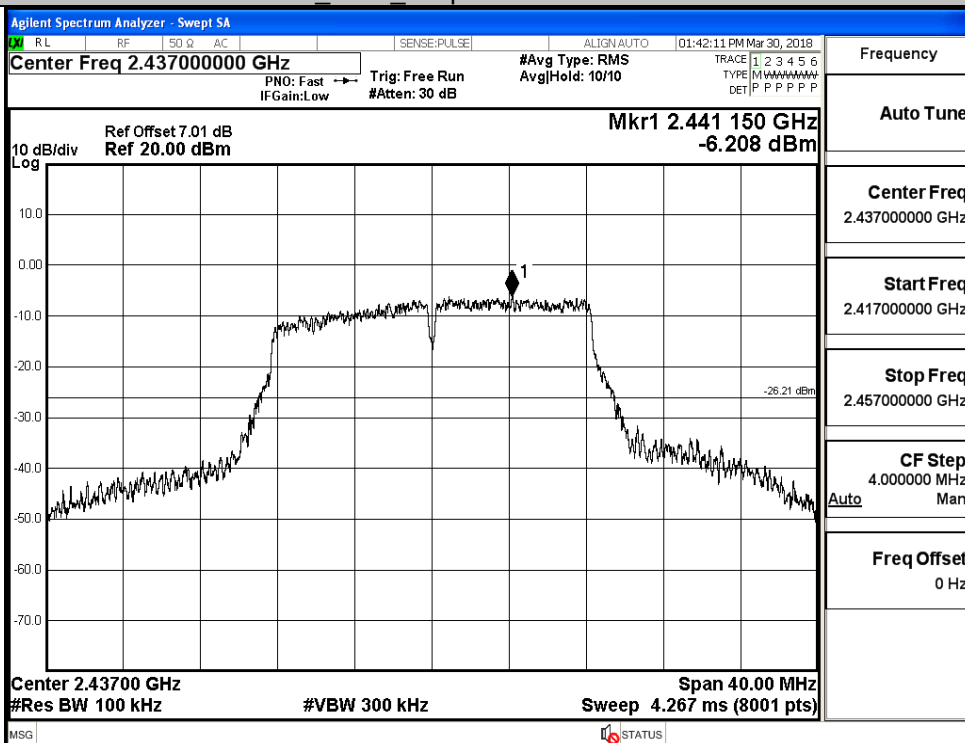


Puw/11G/LCH

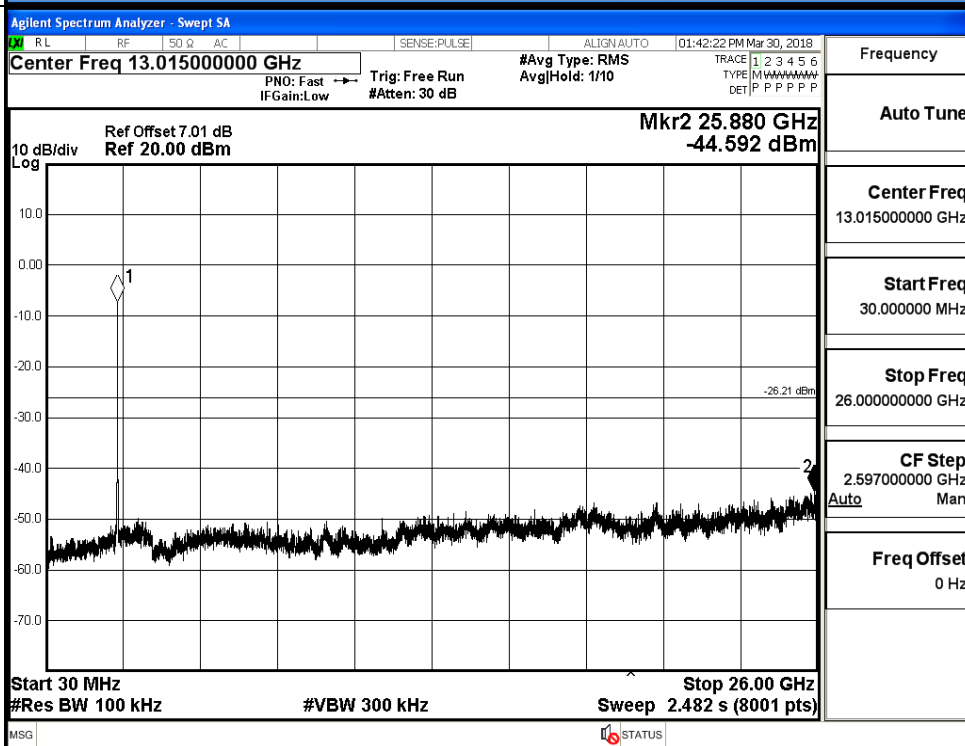


11G MCH Graphs

Pref/11G/MCH

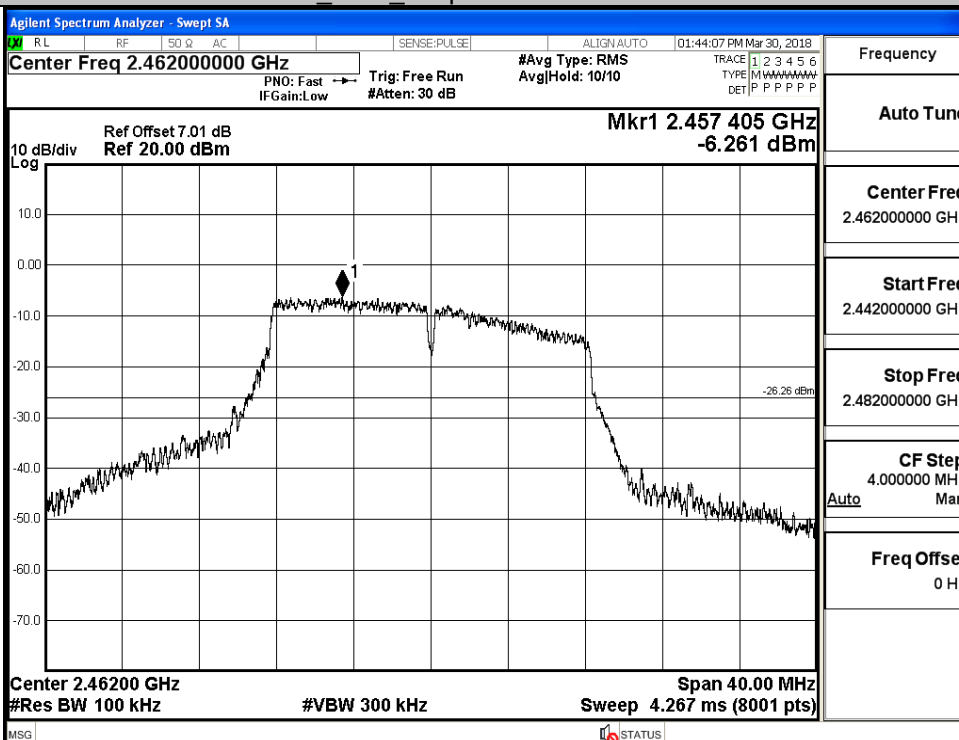


Puw/11G/MCH

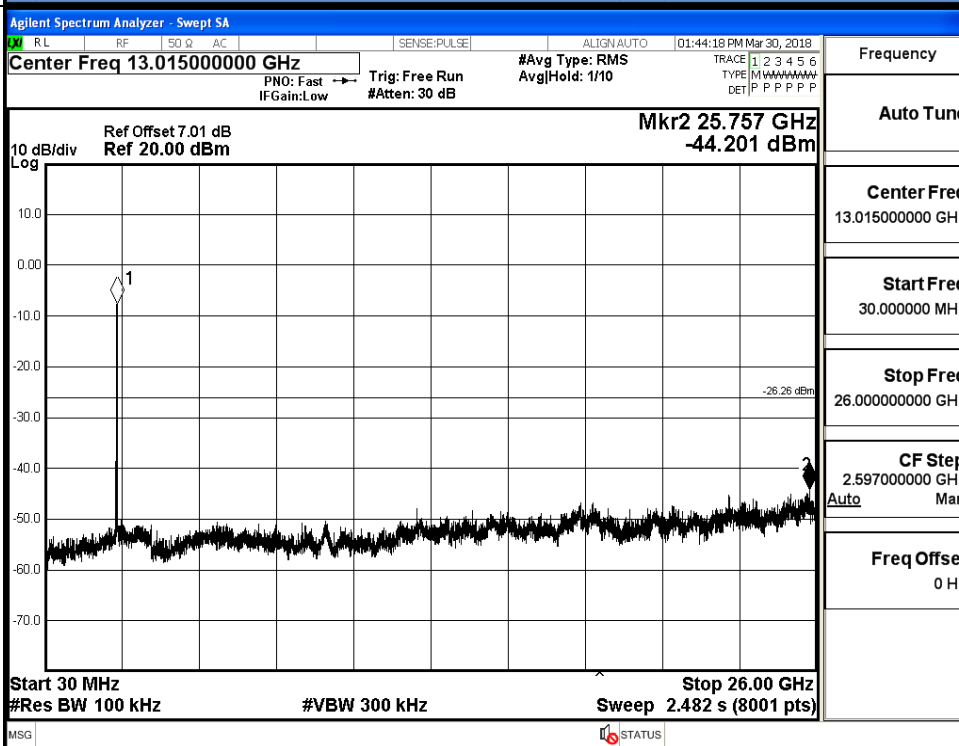


11G HCH Graphs

Pref/11G/HCH

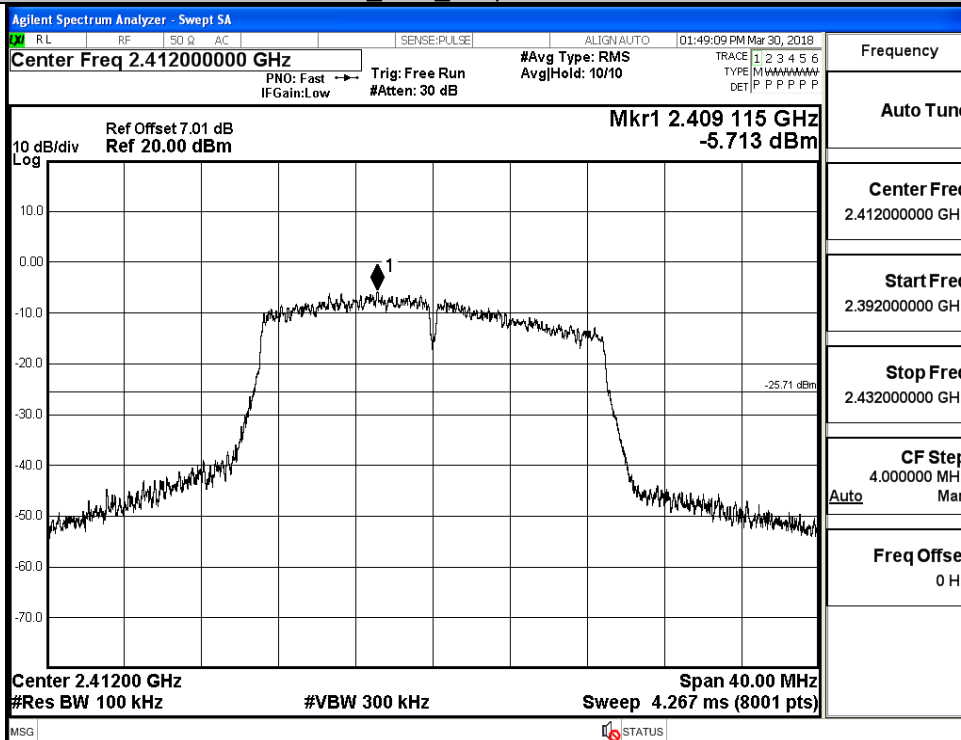


Puw/11G/HCH

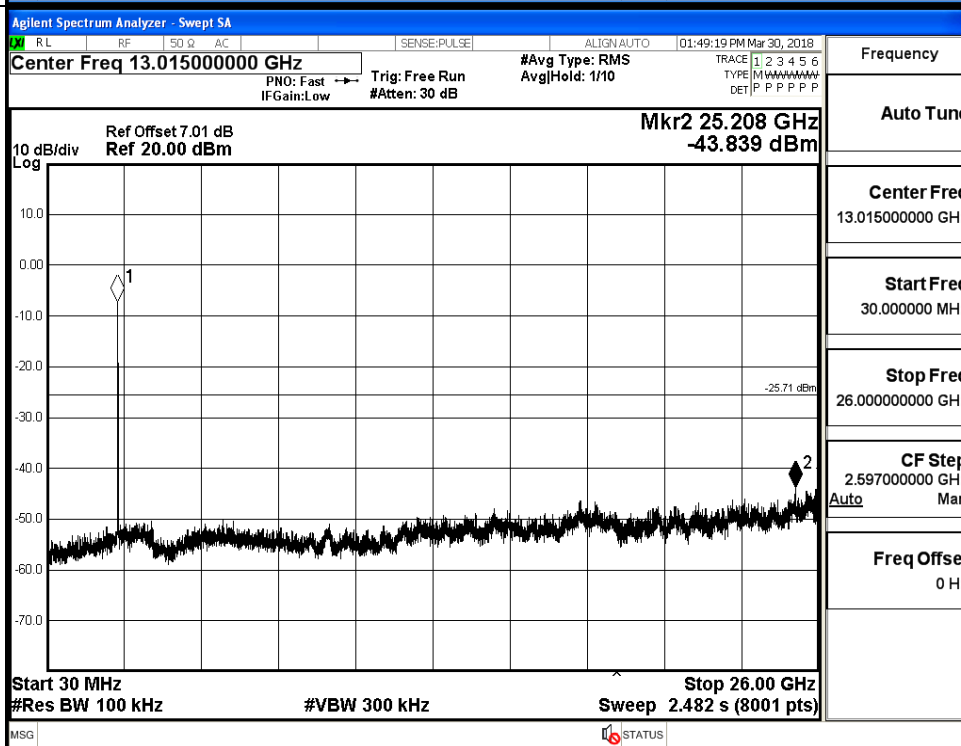


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

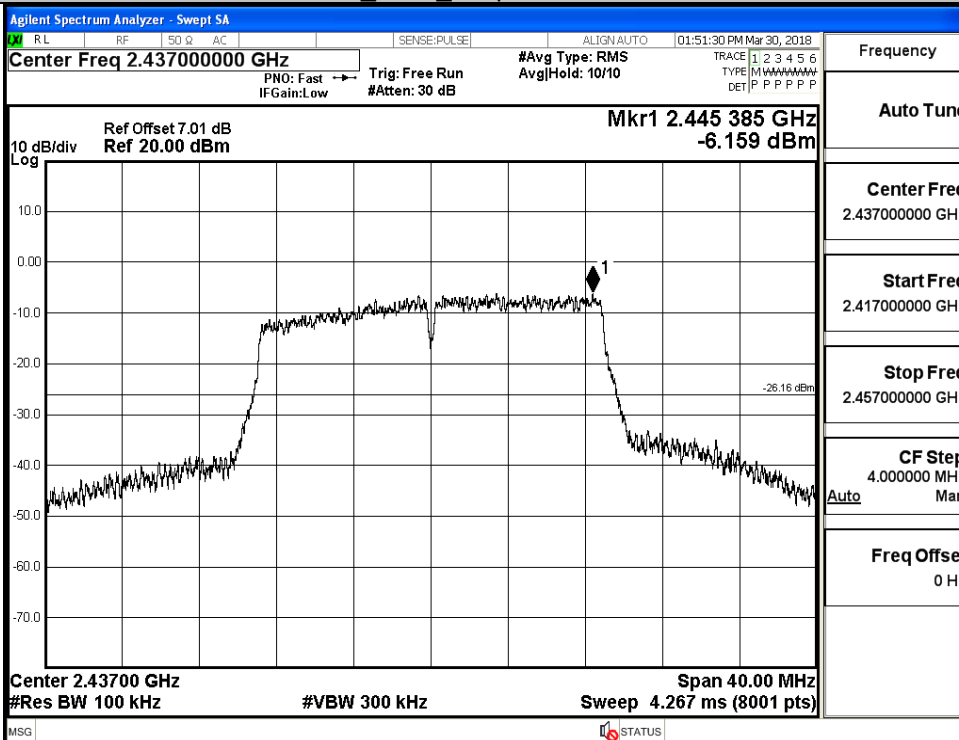


Puw/11N20
SISO/LCH

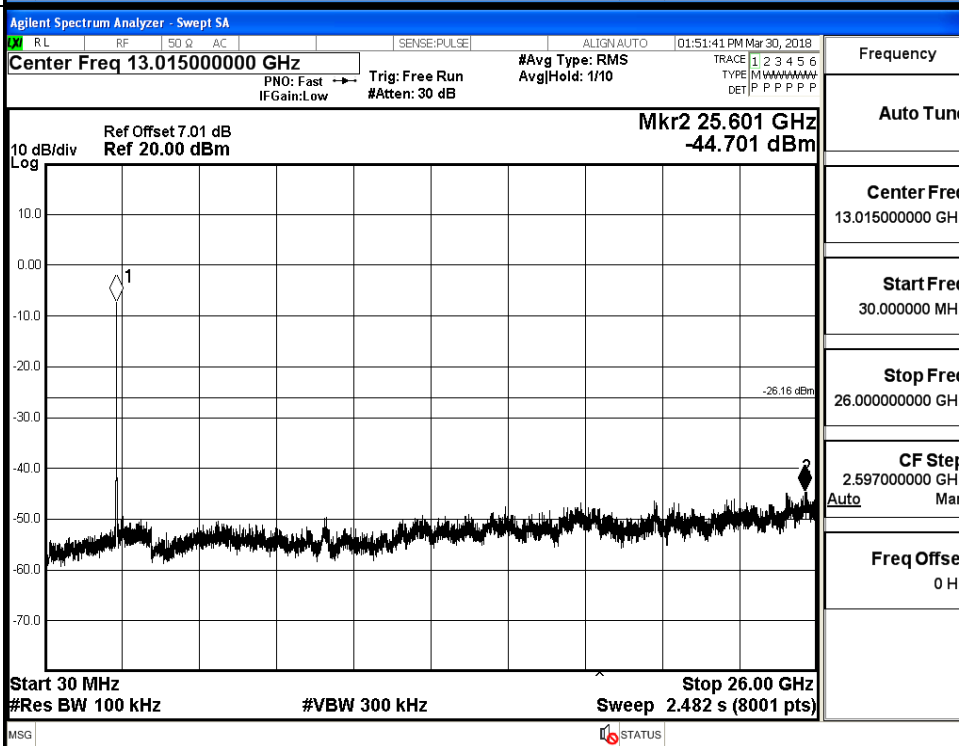


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

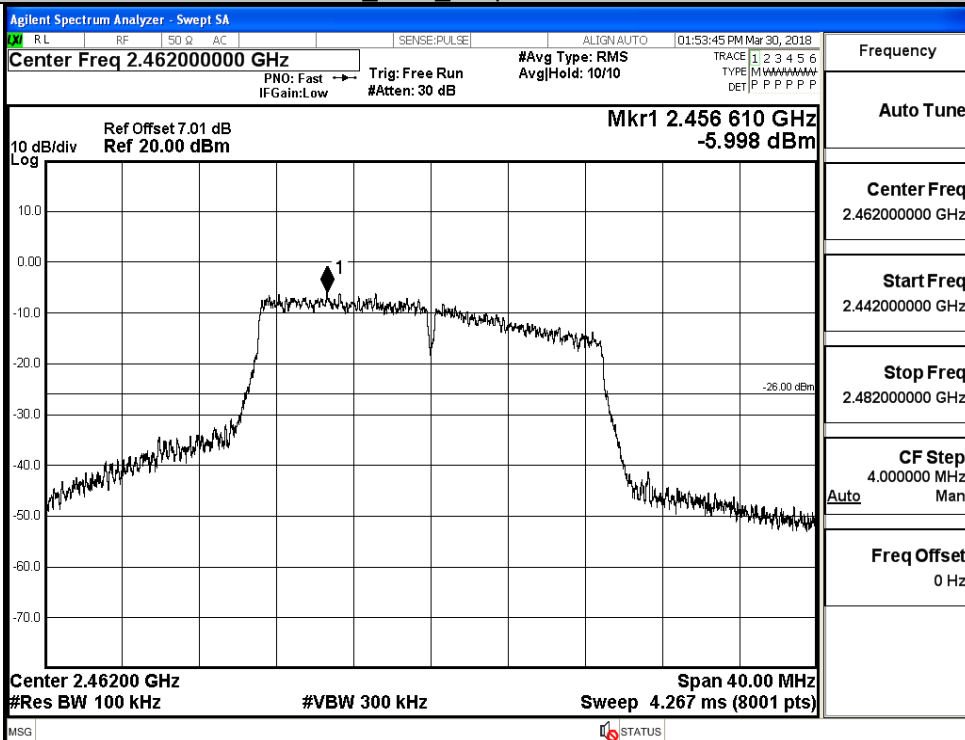


Puw/11N20
SISO/MCH

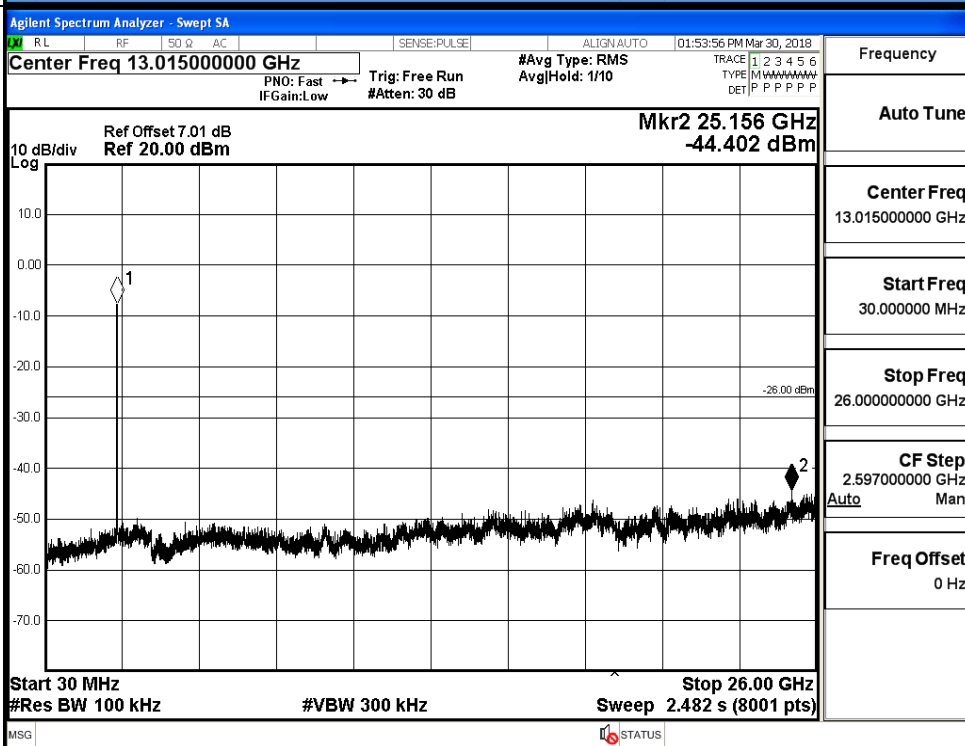


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

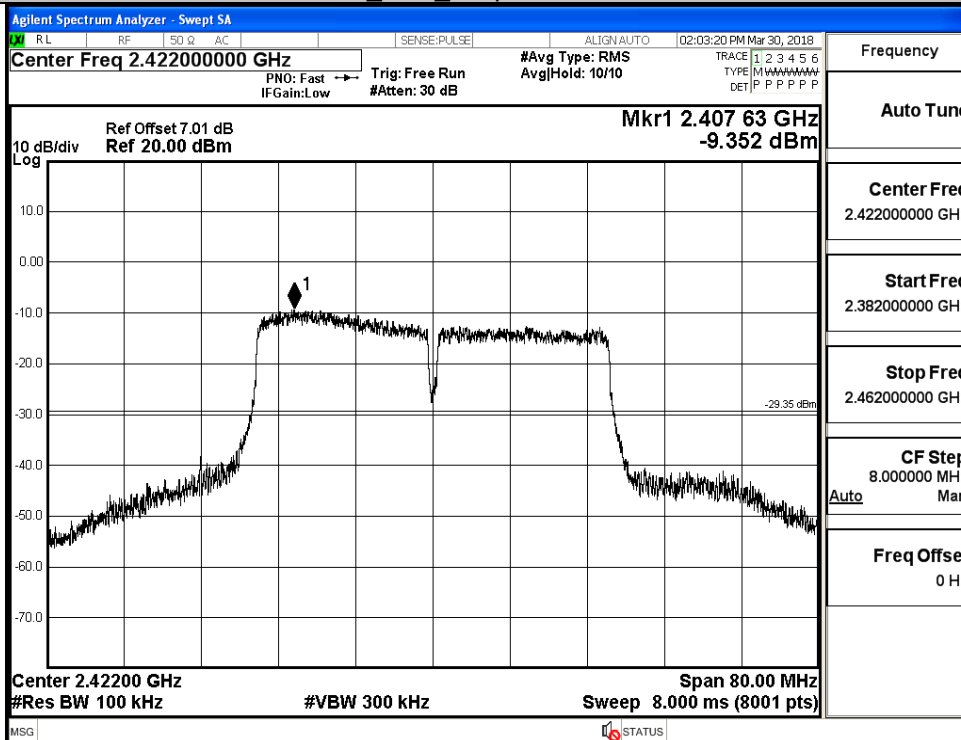


Puw/11N20
SISO/HCH

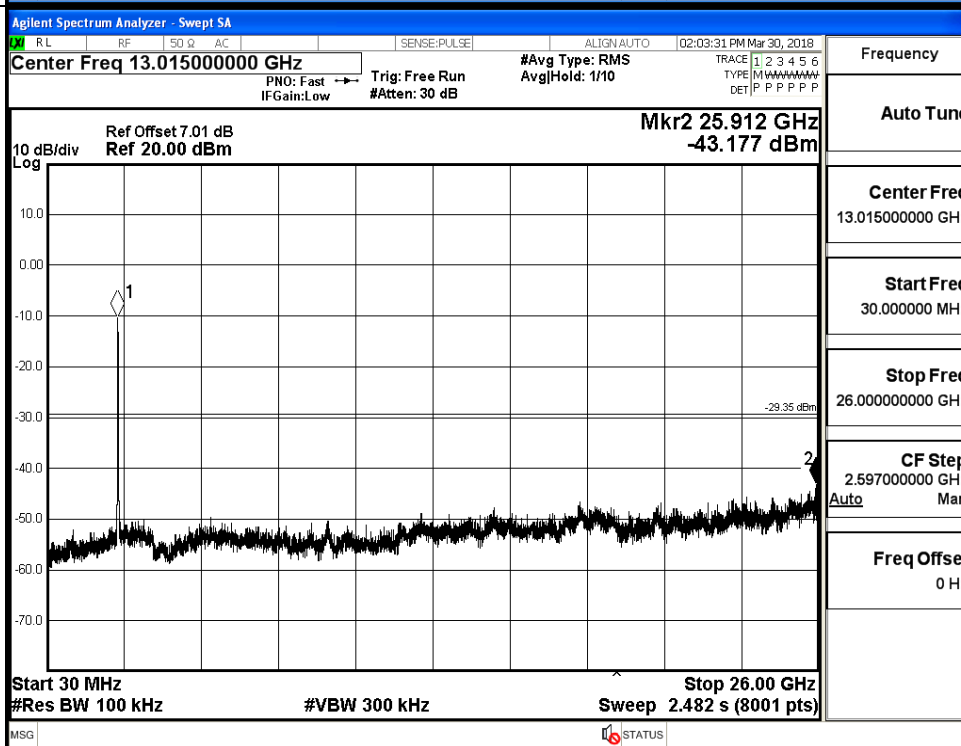


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH

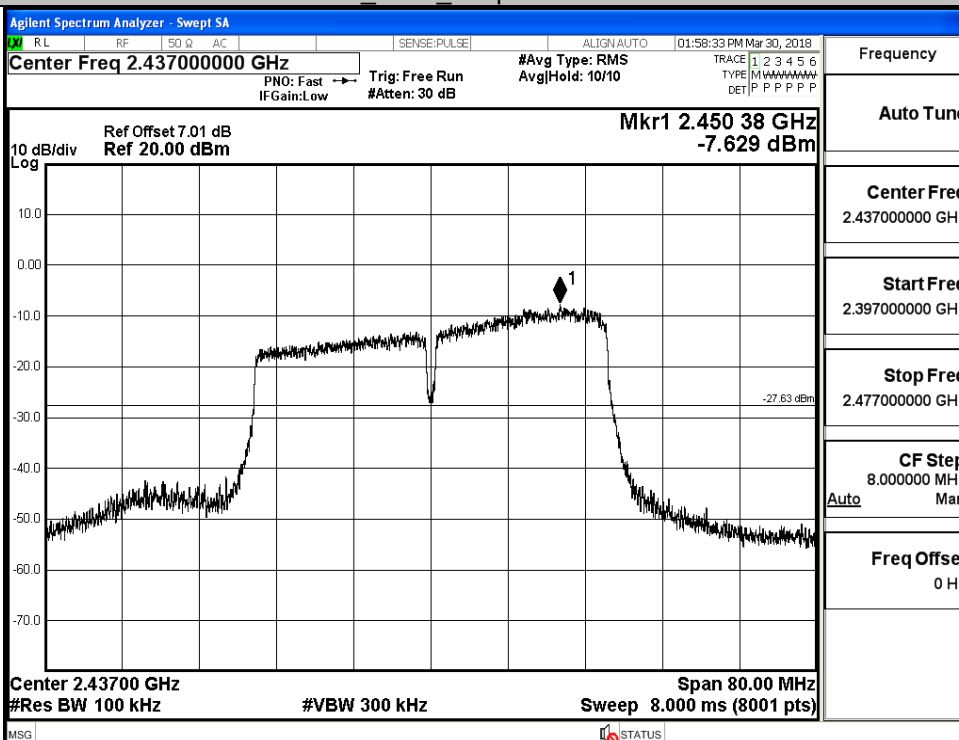


Puw/11N40
SISO/LCH

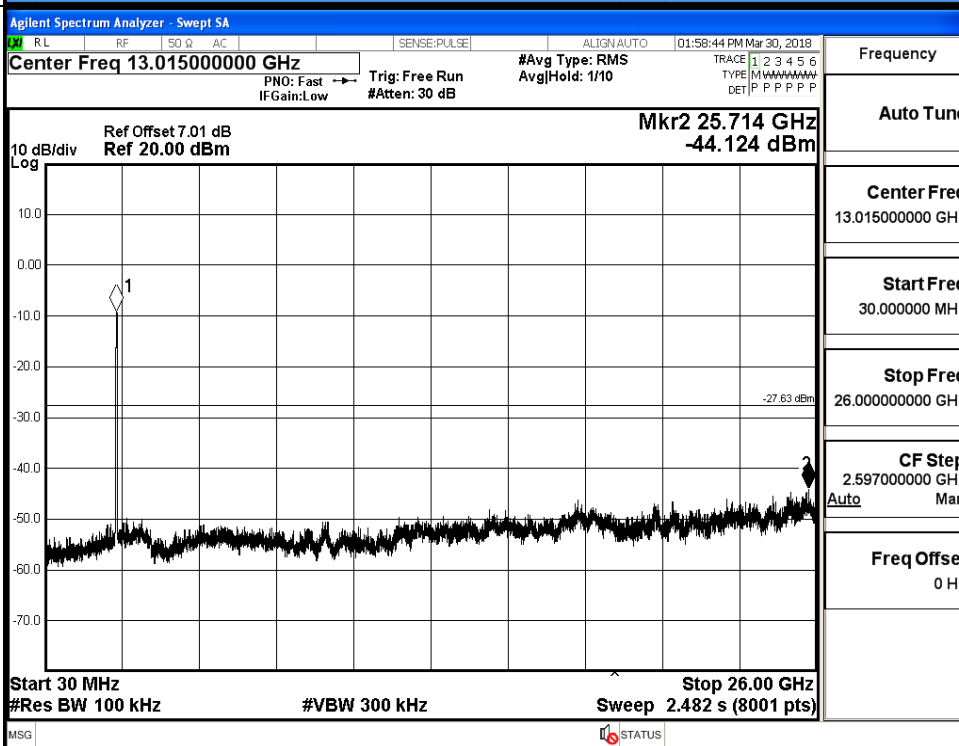


11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH

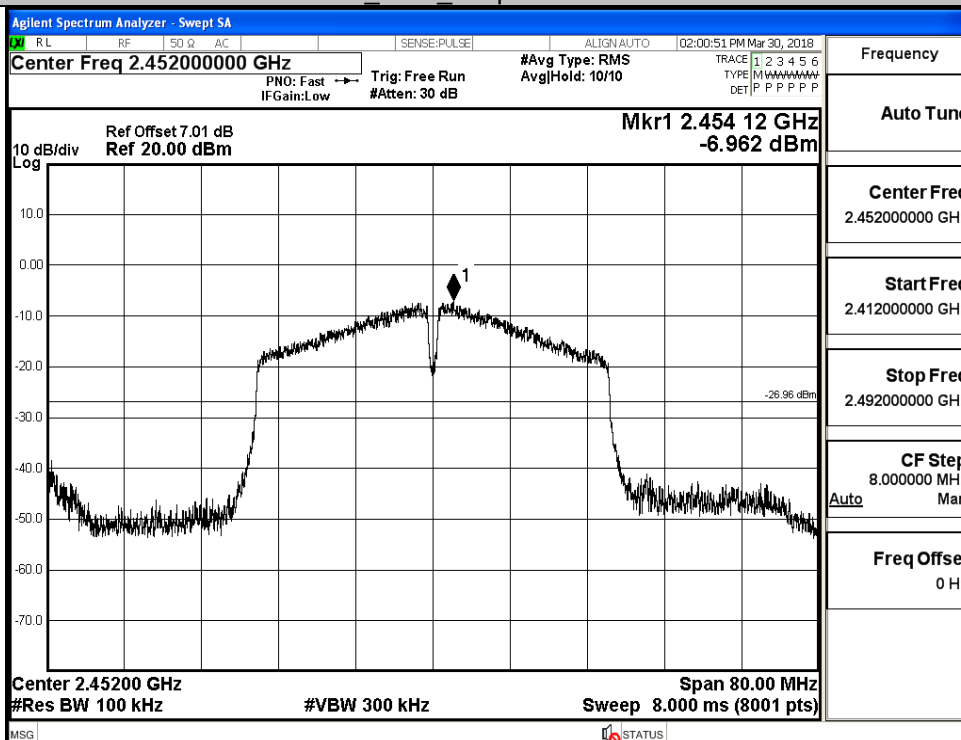


Puw/11N40
SISO/MCH

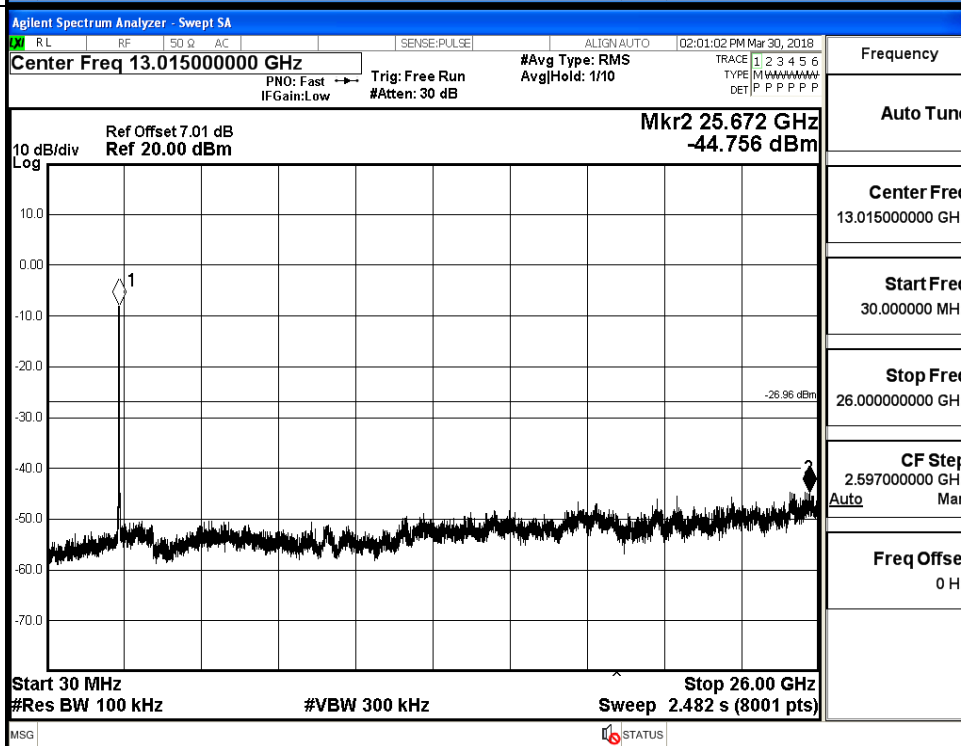


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH



Puw/11N40
SISO/HCH

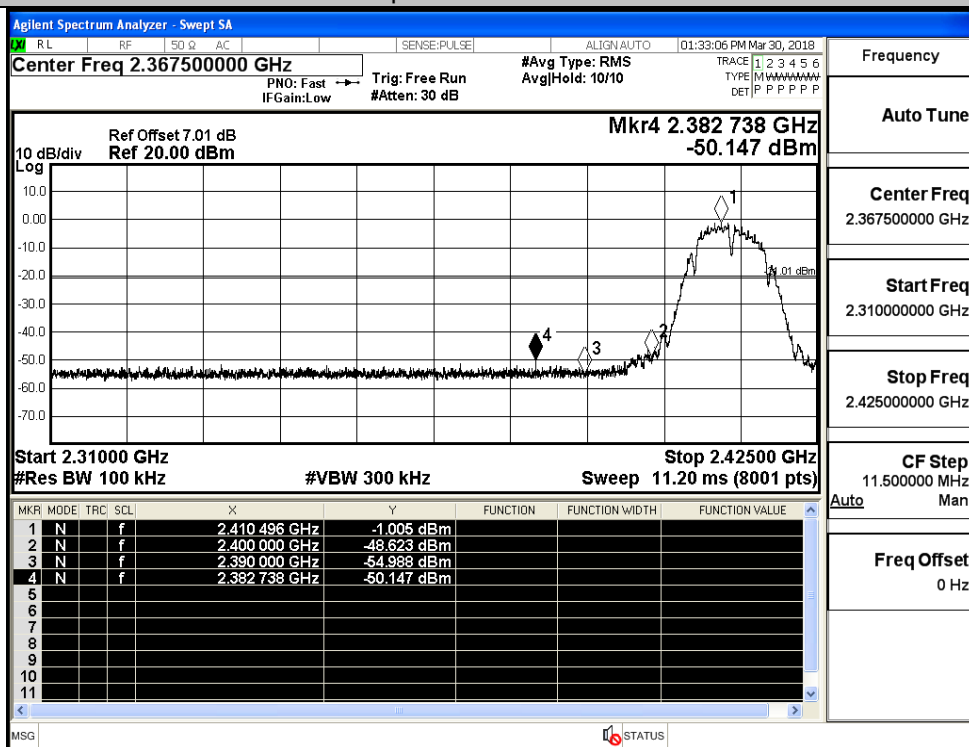


C.5 Band-edge for RF Conducted Emissions

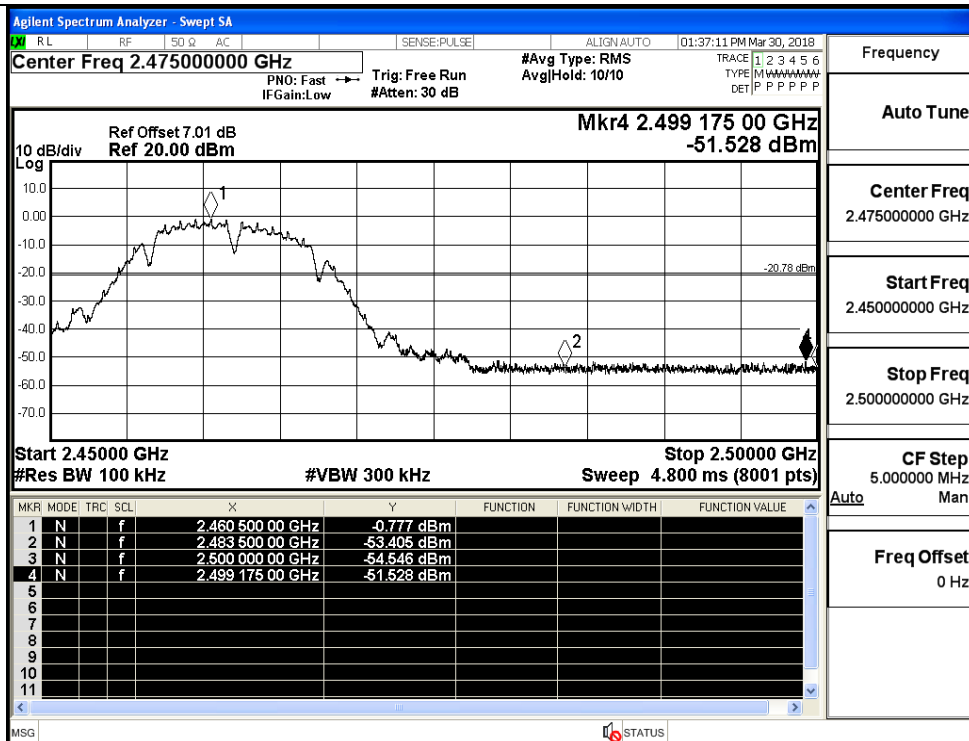
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.005	-50.147	-21.01	PASS
	HCH	-0.777	-51.528	-20.78	PASS
11G	LCH	-5.488	-51.098	-25.49	PASS
	HCH	-6.161	-49.993	-26.16	PASS
11N20SISO	LCH	-5.956	-50.561	-25.96	PASS
	HCH	-5.772	-50.149	-25.77	PASS
11N40SISO	LCH	-9.455	-47.030	-29.46	PASS
	HCH	-7.118	-42.373	-27.12	PASS

Test Graphs

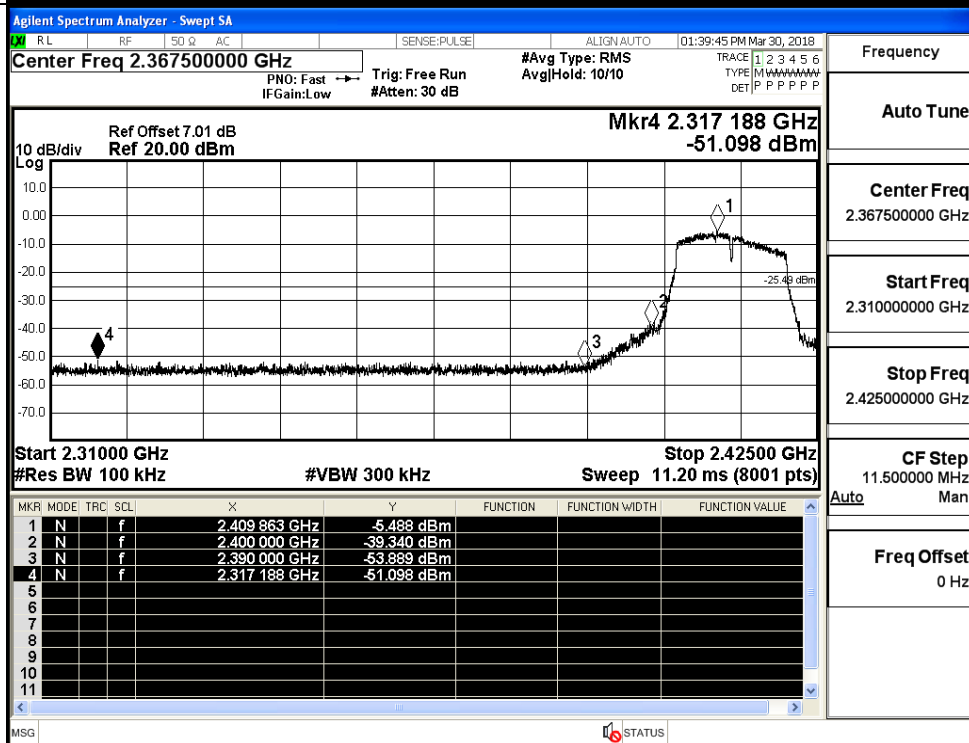
11B/LCH



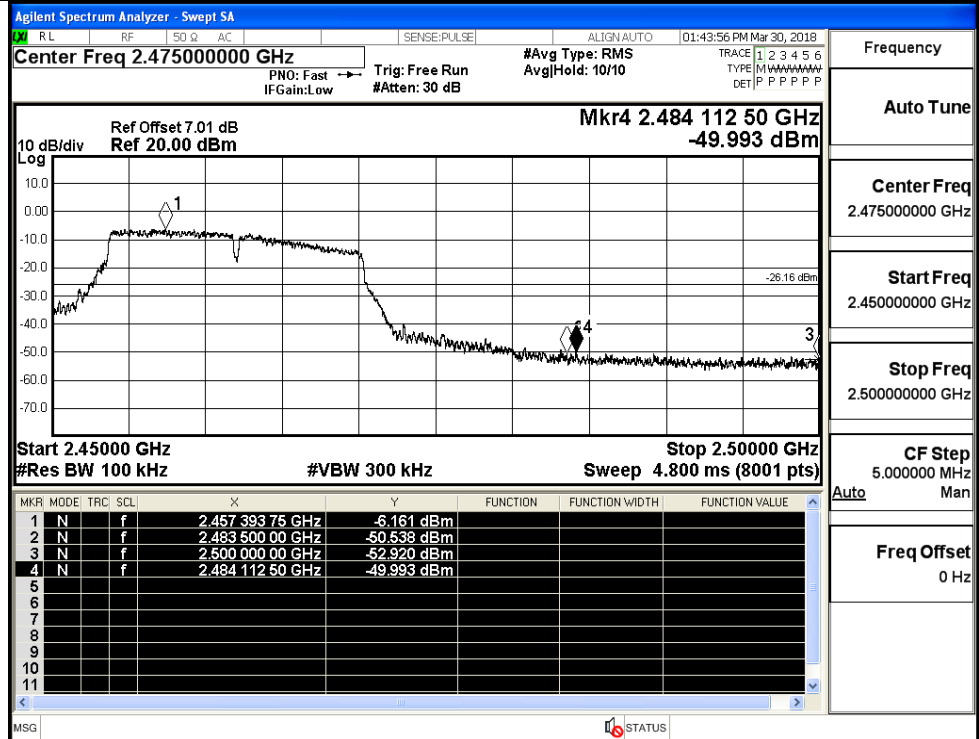
11B/HCH



11G/LCH



11G/HCH



Frequency

Auto Tune

Center Freq

2.475000000 GHz

Start Freq

2.450000000 GHz

Stop Freq

2.500000000 GHz

CF Step

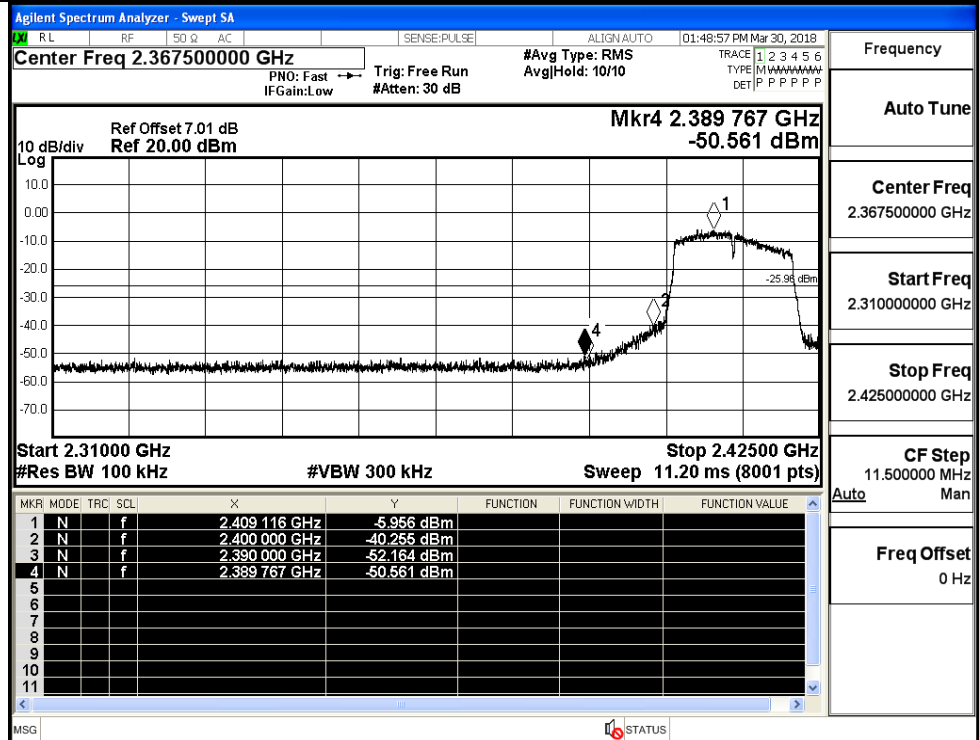
5.000000 MHz

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

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.47500000 GHz

Ref Offset 7.01 dB
Ref 20.00 dBm

Mkr4 2.483 575 00 GHz
-50.149 dBm

10 dB/div
Log

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

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.456 618 75 GHz	-5.772 dBm			
2	N		f	2.483 500 00 GHz	-52.573 dBm			
3	N		f	2.500 000 00 GHz	-54.224 dBm			
4	N		f	2.483 575 00 GHz	-50.149 dBm			

MSG STATUS

Frequency
Auto Tune
Center Freq
2.475000000 GHz
Start Freq
2.450000000 GHz
Stop Freq
2.500000000 GHz
CF Step
5.000000 MHz
Auto Man
Freq Offset
0 Hz

11N40SISO/LCH

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.377500000 GHz

Ref Offset 7.01 dB
Ref 20.00 dBm

Mkr4 2.389 785 GHz
-47.030 dBm

10 dB/div
Log

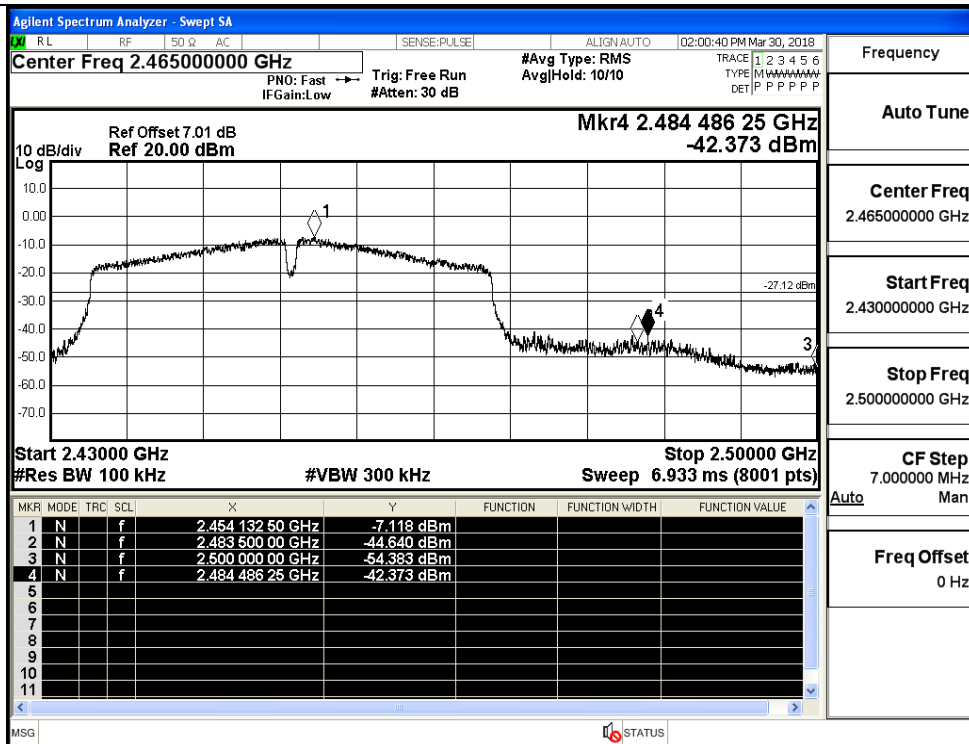
Start 2.31000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.44500 GHz
Sweep 13.33 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.407 386 GHz	-9.455 dBm			
2	N		f	2.400 000 GHz	-44.201 dBm			
3	N		f	2.390 000 GHz	-49.443 dBm			
4	N		f	2.389 785 GHz	-47.030 dBm			

MSG STATUS

Frequency
Auto Tune
Center Freq
2.377500000 GHz
Start Freq
2.310000000 GHz
Stop Freq
2.445000000 GHz
CF Step
13.500000 MHz
Auto Man
Freq Offset
0 Hz

11N40SISO/HCH



Frequency

Auto Tune

Center Freq
2.465000000 GHz

Start Freq
2.430000000 GHz

Stop Freq
2.500000000 GHz

CF Step
7.000000 MHz
Auto Man

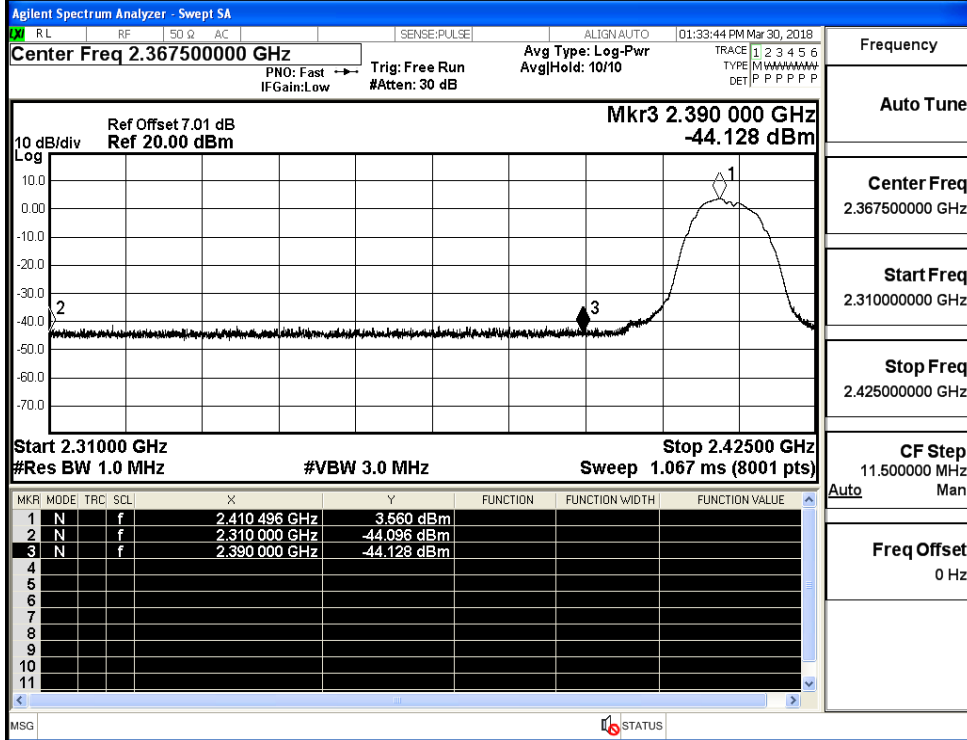
Freq Offset
0 Hz

C.6 Restrict-band band-edge measurements

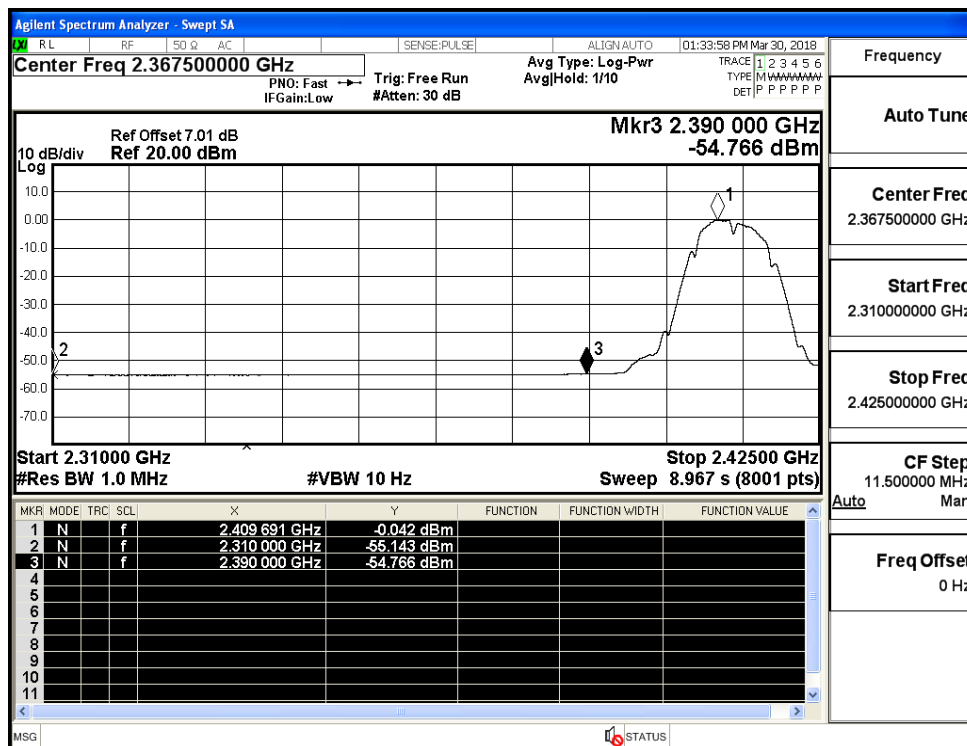
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.10	2.0	0	53.10	PEAK	74	PASS
	2412	Ant1	2310.0	-55.14	2.0	0	42.06	AV	54	PASS
	2412	Ant1	2390.0	-44.13	2.0	0	53.07	PEAK	74	PASS
	2412	Ant1	2390.0	-54.77	2.0	0	42.43	AV	54	PASS
	2462	Ant1	2483.5	-44.16	2.0	0	53.04	PEAK	74	PASS
	2462	Ant1	2483.5	-54.10	2.0	0	43.10	AV	54	PASS
	2462	Ant1	2500.0	-44.90	2.0	0	52.30	PEAK	74	PASS
	2462	Ant1	2500.0	-54.53	2.0	0	42.67	AV	54	PASS
11G	2412	Ant1	2310.0	-44.20	2.0	0	53.00	PEAK	74	PASS
	2412	Ant1	2310.0	-55.12	2.0	0	42.08	AV	54	PASS
	2412	Ant1	2390.0	-42.04	2.0	0	55.16	PEAK	74	PASS
	2412	Ant1	2390.0	-53.96	2.0	0	43.24	AV	54	PASS
	2462	Ant1	2483.5	-40.84	2.0	0	56.36	PEAK	74	PASS
	2462	Ant1	2483.5	-52.72	2.0	0	44.48	AV	54	PASS
	2462	Ant1	2500.0	-43.67	2.0	0	53.53	PEAK	74	PASS
	2462	Ant1	2500.0	-54.57	2.0	0	42.63	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-45.65	2.0	0	51.55	PEAK	74	PASS
	2412	Ant1	2310.0	-55.11	2.0	0	42.09	AV	54	PASS
	2412	Ant1	2390.0	-41.60	2.0	0	55.60	PEAK	74	PASS
	2412	Ant1	2390.0	-53.70	2.0	0	43.50	AV	54	PASS
	2462	Ant1	2483.5	-39.68	2.0	0	57.52	PEAK	74	PASS
	2462	Ant1	2483.5	-52.41	2.0	0	44.79	AV	54	PASS
	2462	Ant1	2500.0	-44.54	2.0	0	52.66	PEAK	74	PASS
	2462	Ant1	2500.0	-54.56	2.0	0	42.64	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-44.40	2.0	0	52.80	PEAK	74	PASS
	2422	Ant1	2310.0	-55.14	2.0	0	42.06	AV	54	PASS
	2422	Ant1	2390.0	-35.46	2.0	0	61.74	PEAK	74	PASS

	2422	Ant1	2390.0	-49.72	2.0	0	47.48	AV	54	PASS
	2452	Ant1	2483.5	-31.16	2.0	0	66.04	PEAK	74	PASS
	2452	Ant1	2483.5	-48.08	2.0	0	49.12	AV	54	PASS
	2452	Ant1	2500.0	-43.20	2.0	0	54.00	PEAK	74	PASS
	2452	Ant1	2500.0	-54.55	2.0	0	42.65	AV	54	PASS

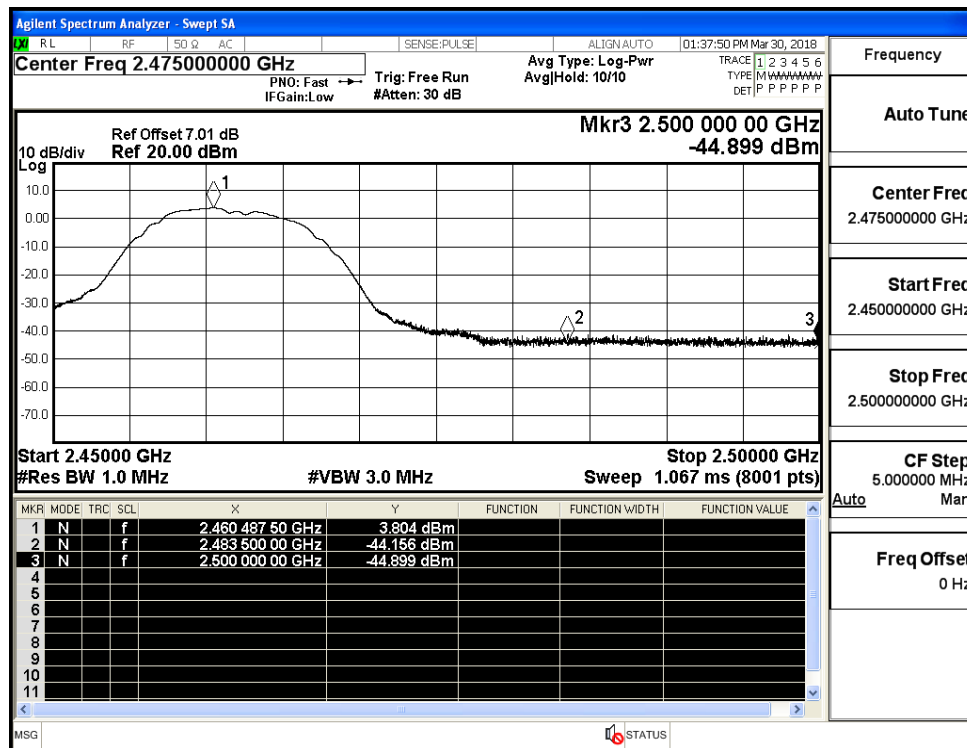
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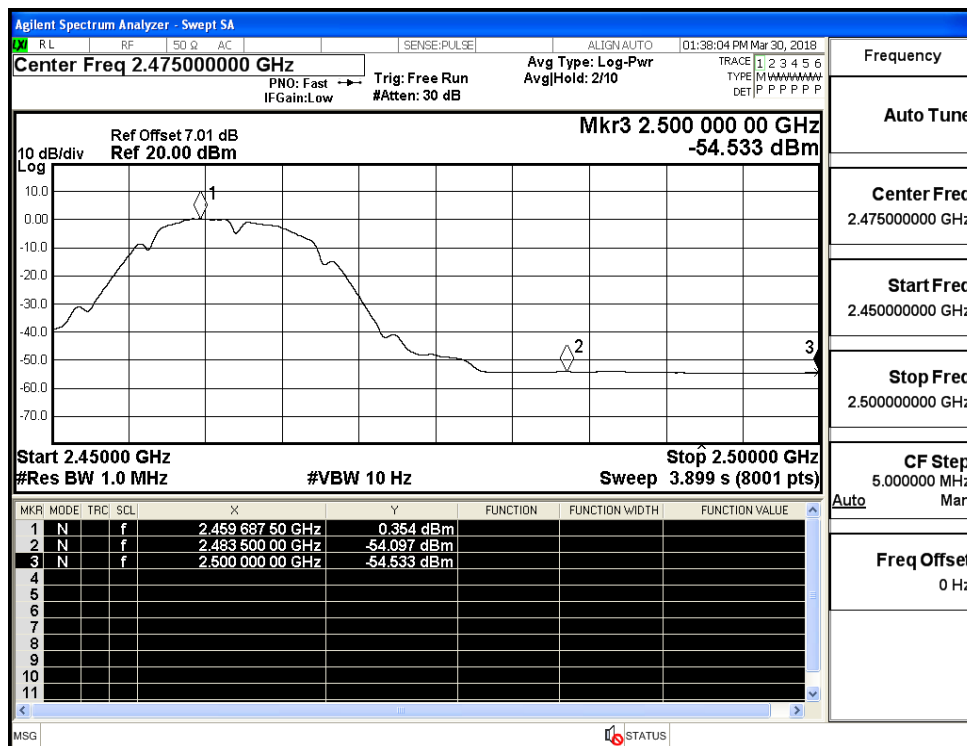
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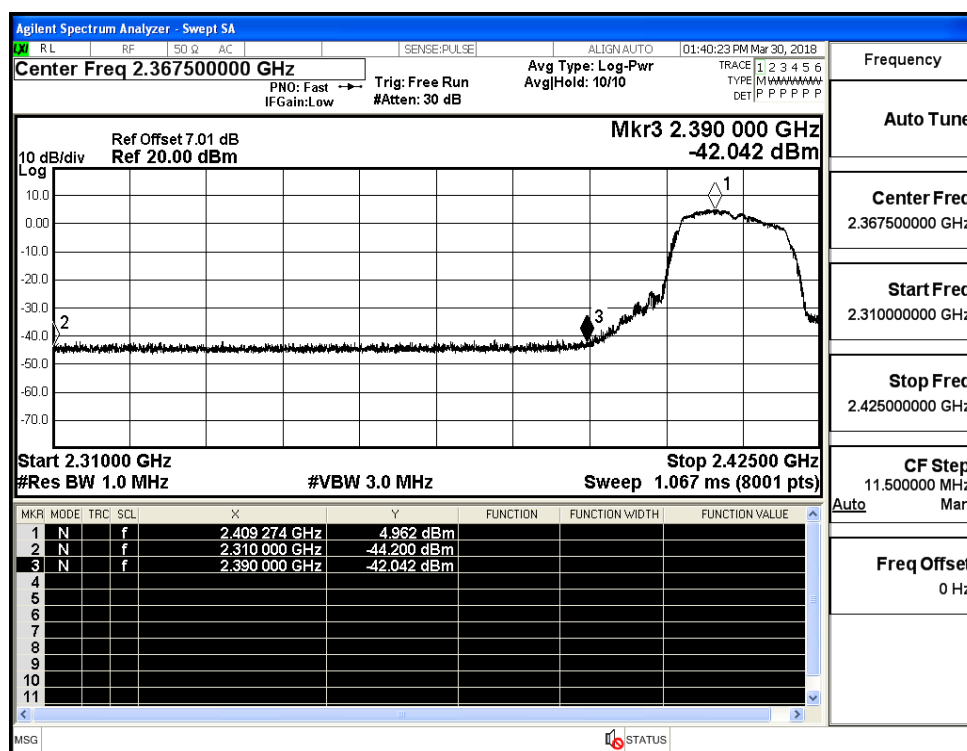
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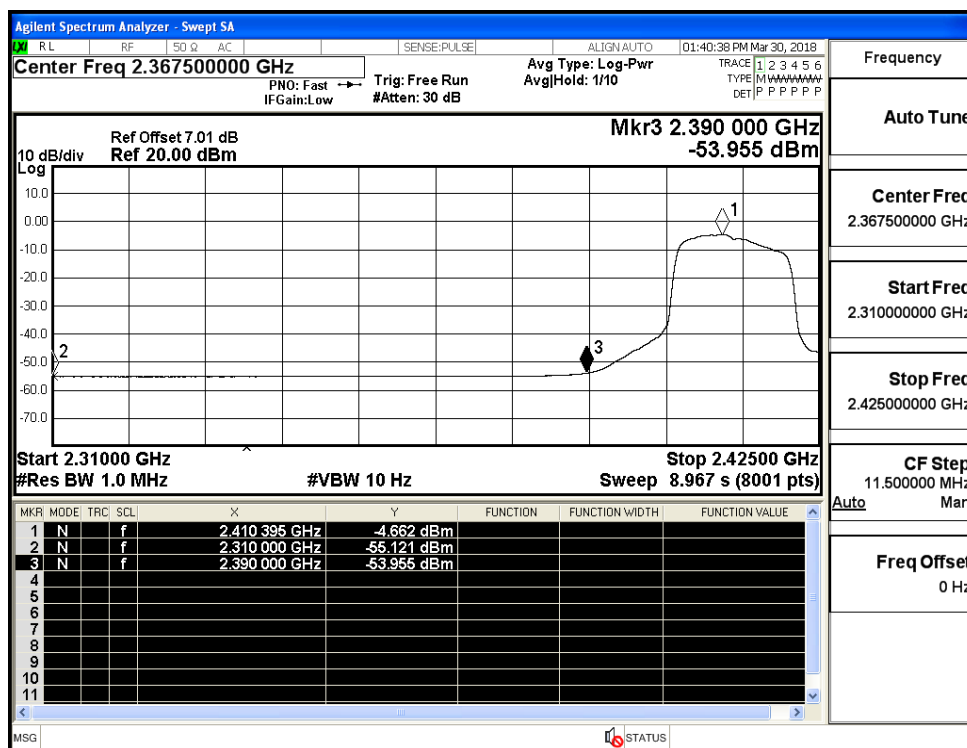
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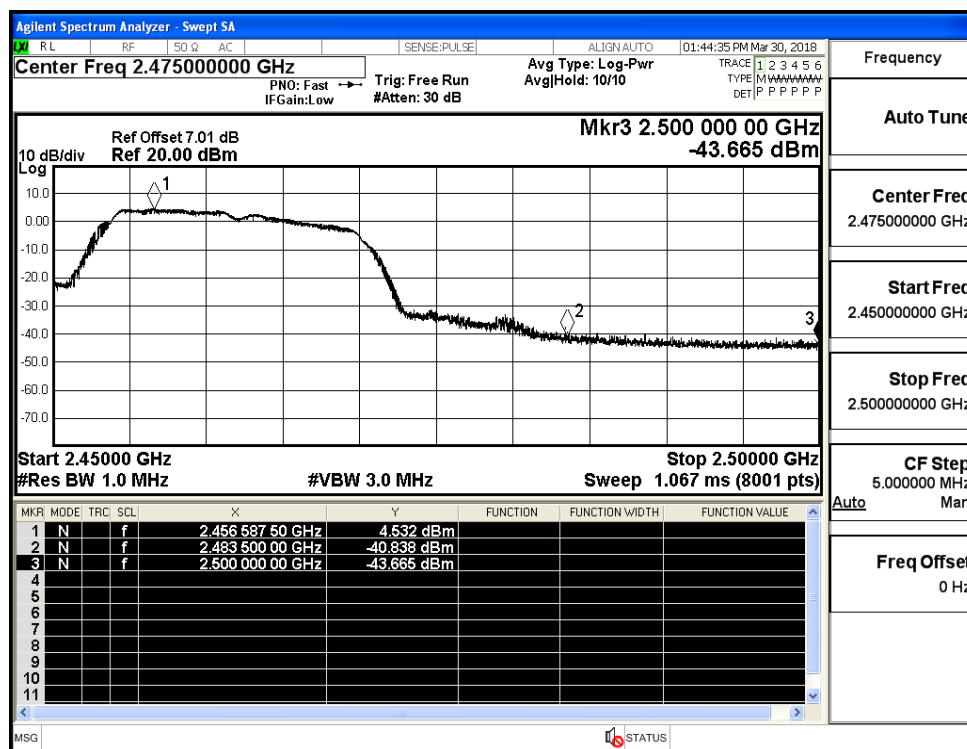
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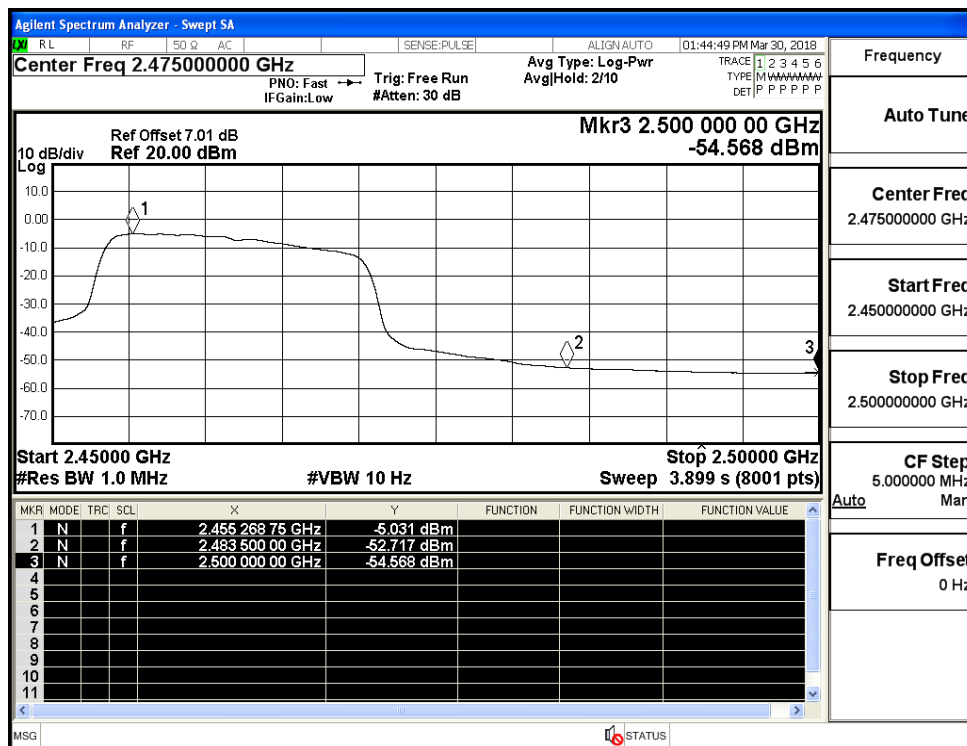
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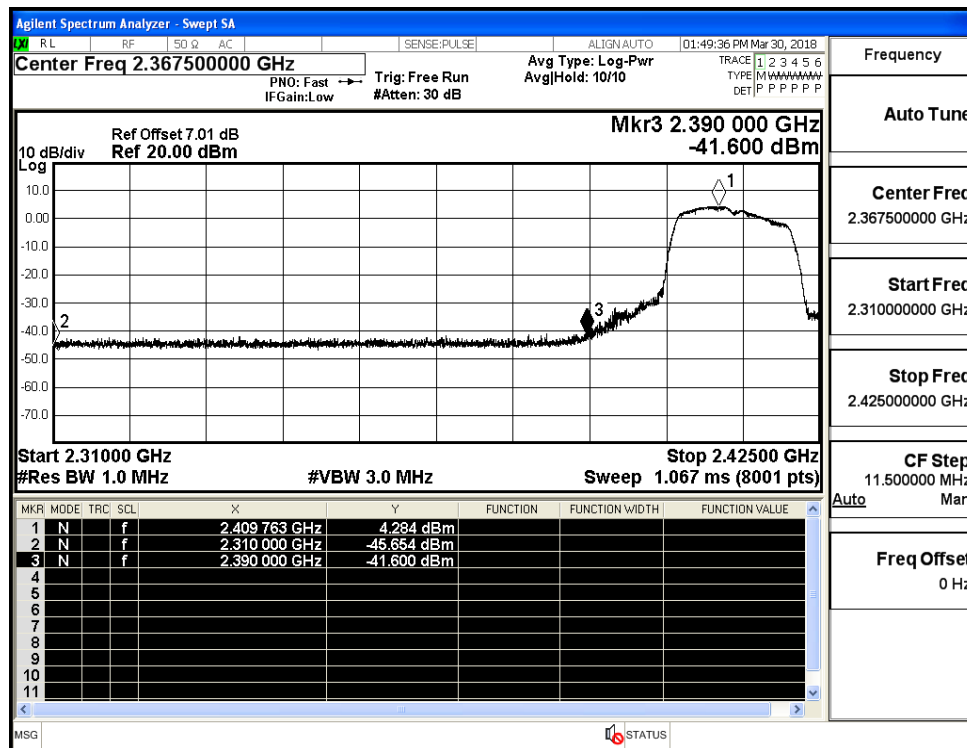
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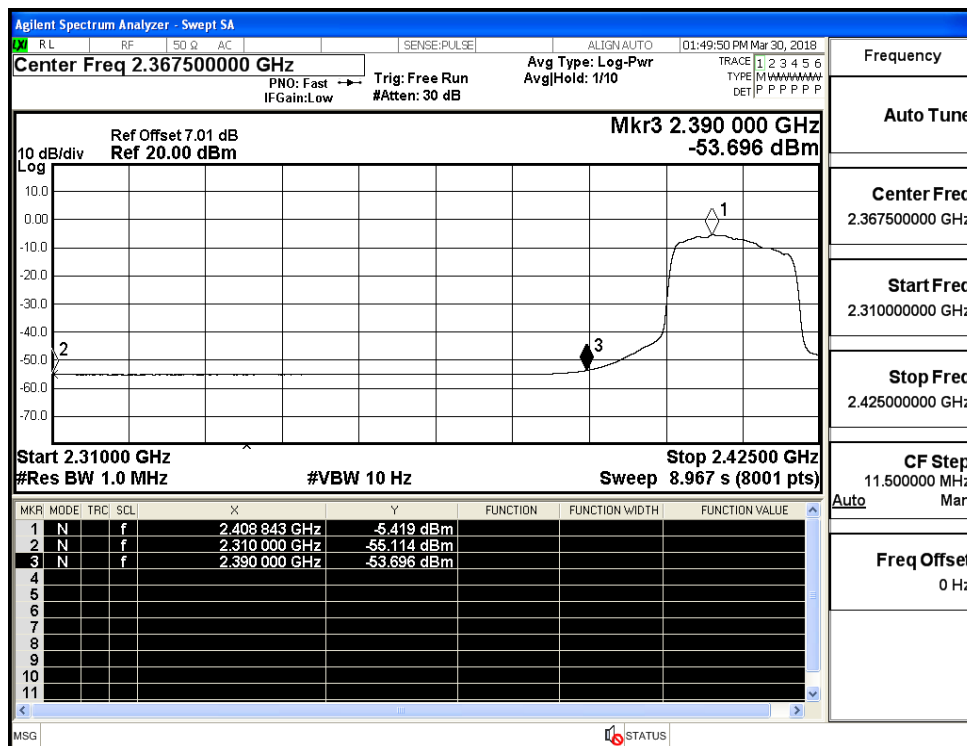
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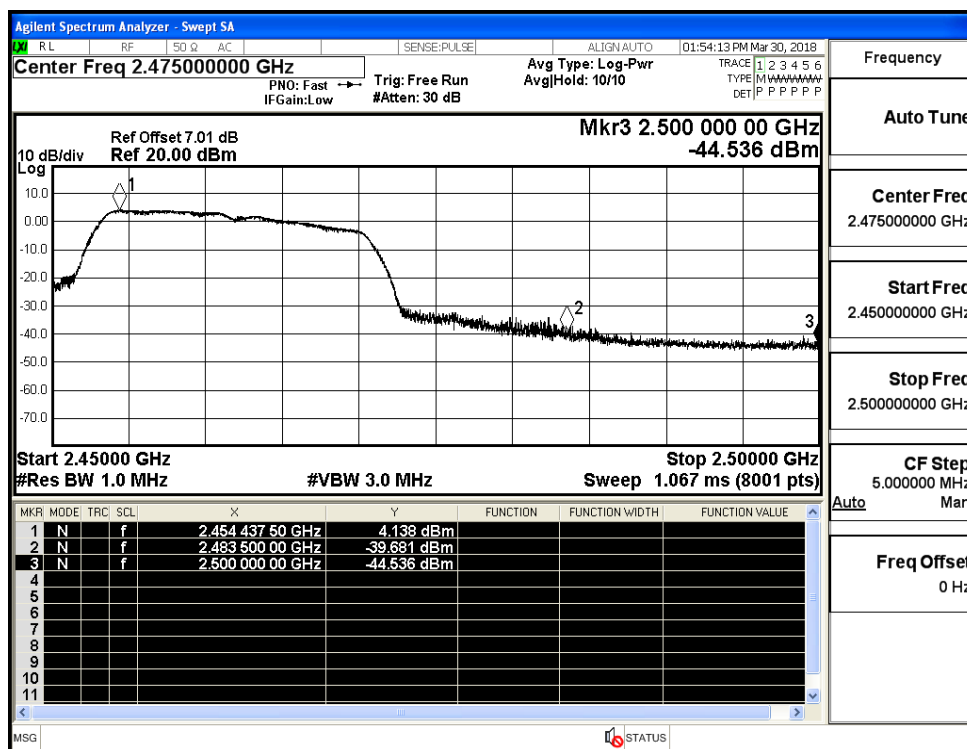
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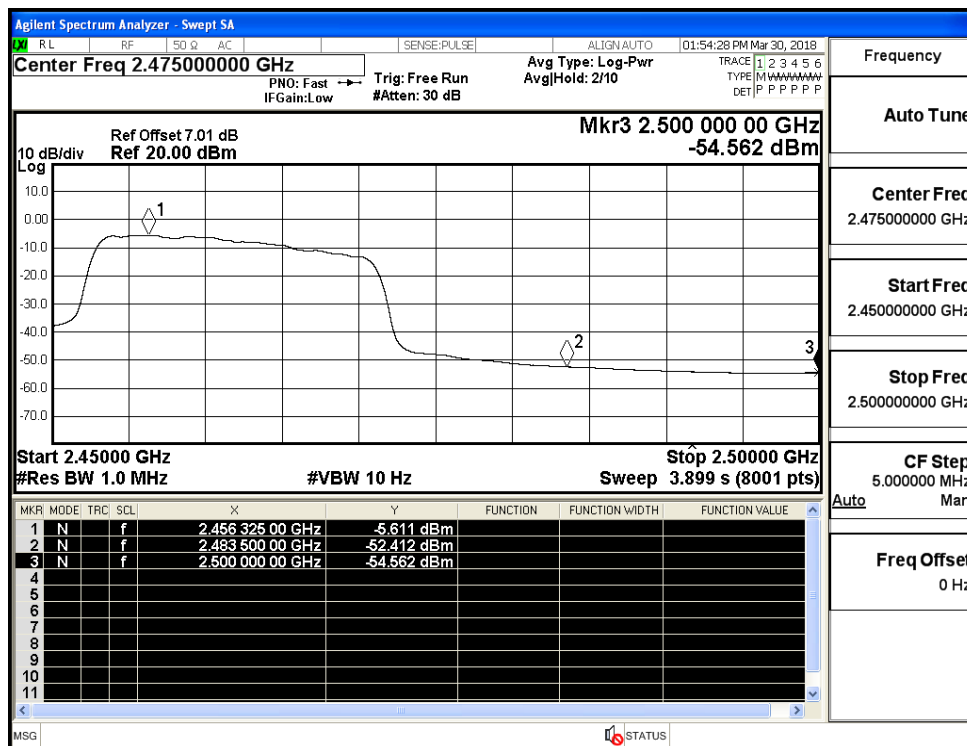
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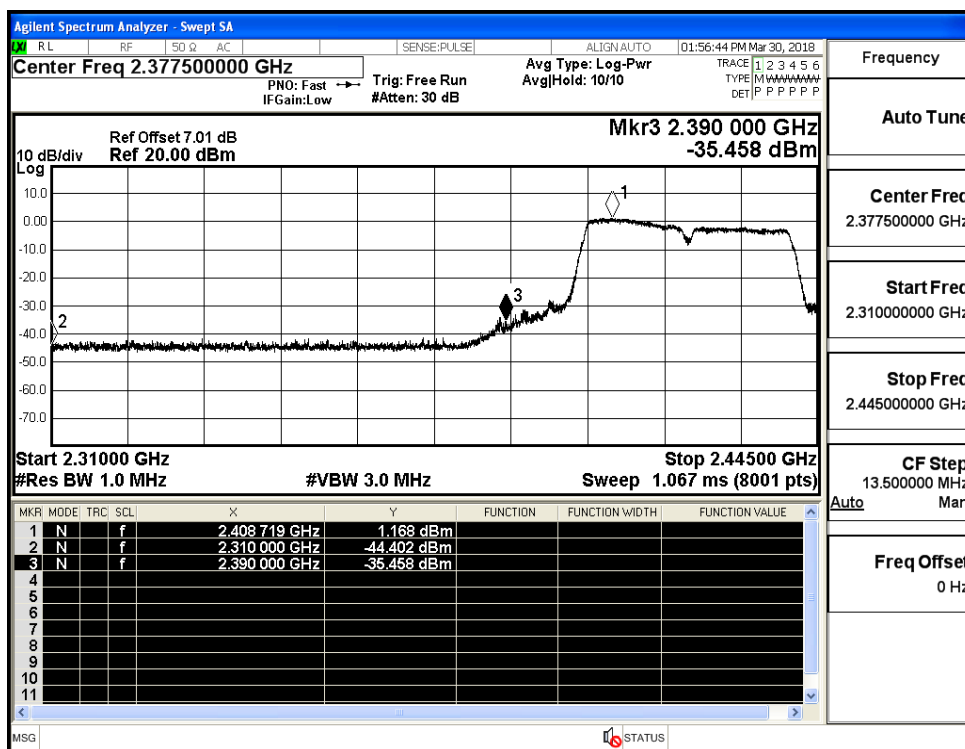
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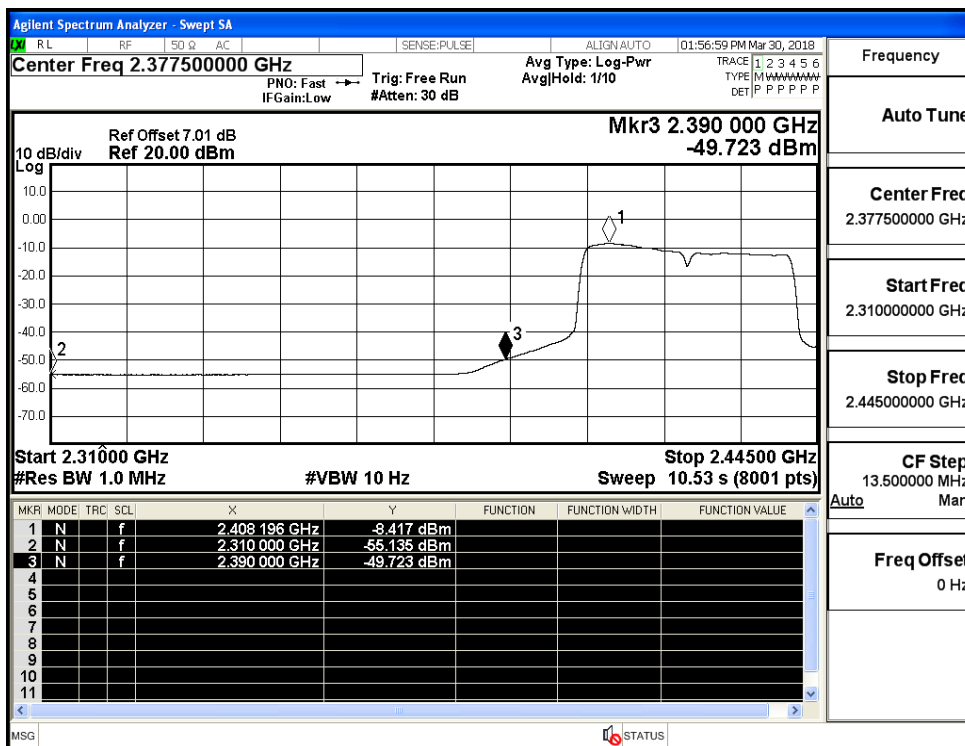
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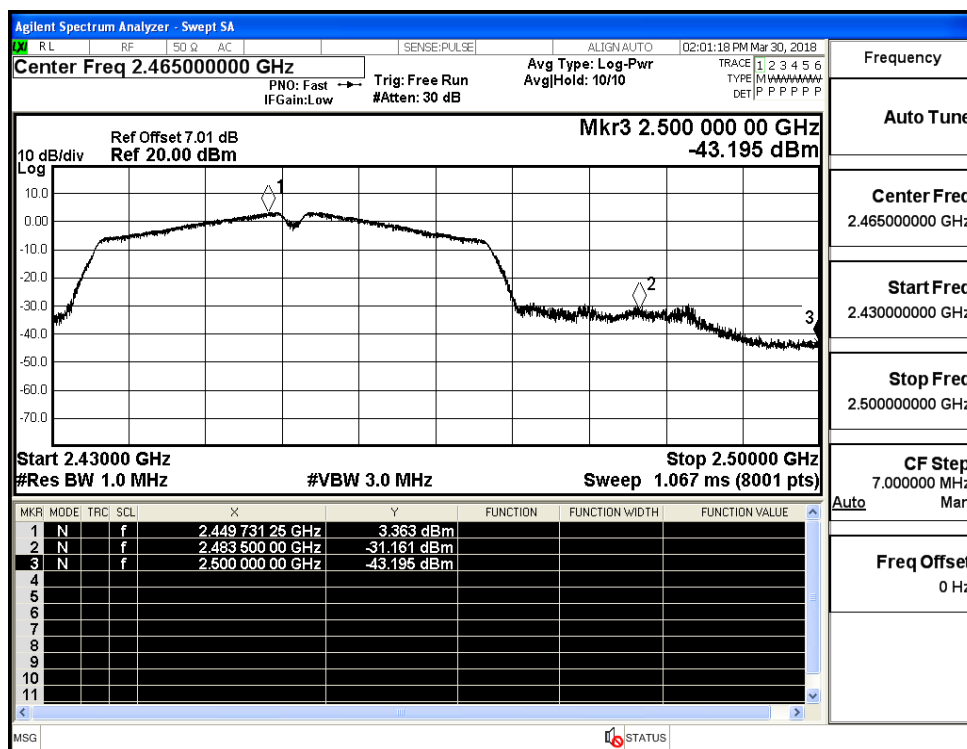
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

