

Appendix A
RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet with wifi
Trade Mark: SKY DEVICES, HENA
Test Model: SKY VISION
FCC ID: 2ABOSSKYVISION

A.1 6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	9.152	0.5	PASS
11B	2437	Ant1	9.155	0.5	PASS
11B	2462	Ant1	9.150	0.5	PASS
11G	2412	Ant1	16.61	0.5	PASS
11G	2437	Ant1	16.61	0.5	PASS
11G	2462	Ant1	16.61	0.5	PASS
11N20SISO	2412	Ant1	17.81	0.5	PASS
11N20SISO	2437	Ant1	17.84	0.5	PASS
11N20SISO	2462	Ant1	17.83	0.5	PASS
11N40SISO	2422	Ant1	36.55	0.5	PASS
11N40SISO	2437	Ant1	36.53	0.5	PASS
11N40SISO	2452	Ant1	36.49	0.5	PASS

6dB Bandwidth_11B_2412_Ant1

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.412000000 GHz Center Freq: 2.412000000 GHz Radio Std: None
 Trig: Free Run AvgJHold: 1/1
 #IFGain:Low #Atten: 30 dB Radio Device: BTS

Ref Offset 8.01 dB Mkr1 2.41149 GHz
 Ref 20.00 dB -0.86594 dBm

Center 2.412 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth	Total Power	15.7 dBm
12.291 MHz		
Transmit Freq Error	-5.520 kHz	OBW Power
		99.00 %
x dB Bandwidth	9.152 MHz	x dB
		-6.00 dB

Frequency: 2.412000000 GHz
 CF Step: 3.000000 MHz
 Freq Offset: 0 Hz

6dB Bandwidth_11B_2437_Ant1

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None
 Trig: Free Run AvgJHold: >1/1
 #IFGain:Low #Atten: 30 dB Radio Device: BTS

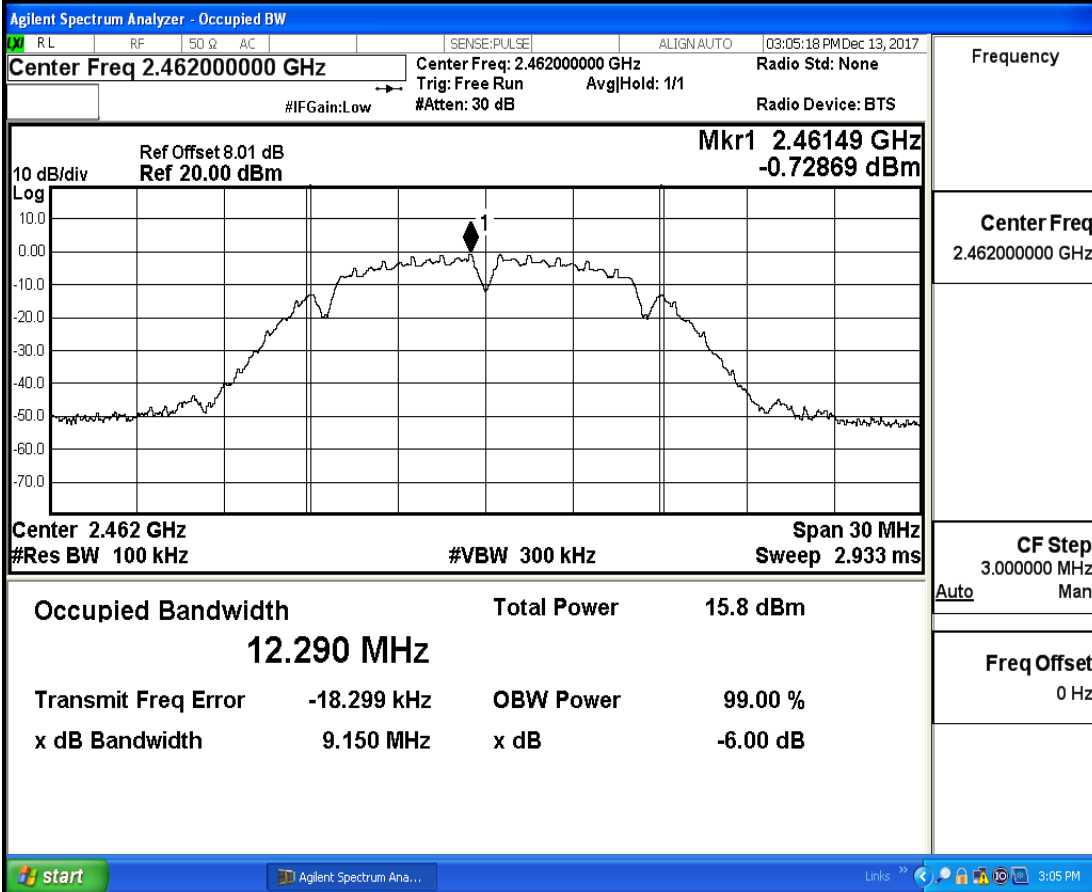
Ref Offset 8.01 dB Mkr1 2.43649 GHz
 Ref 20.00 dB -0.71875 dBm

Center 2.437 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

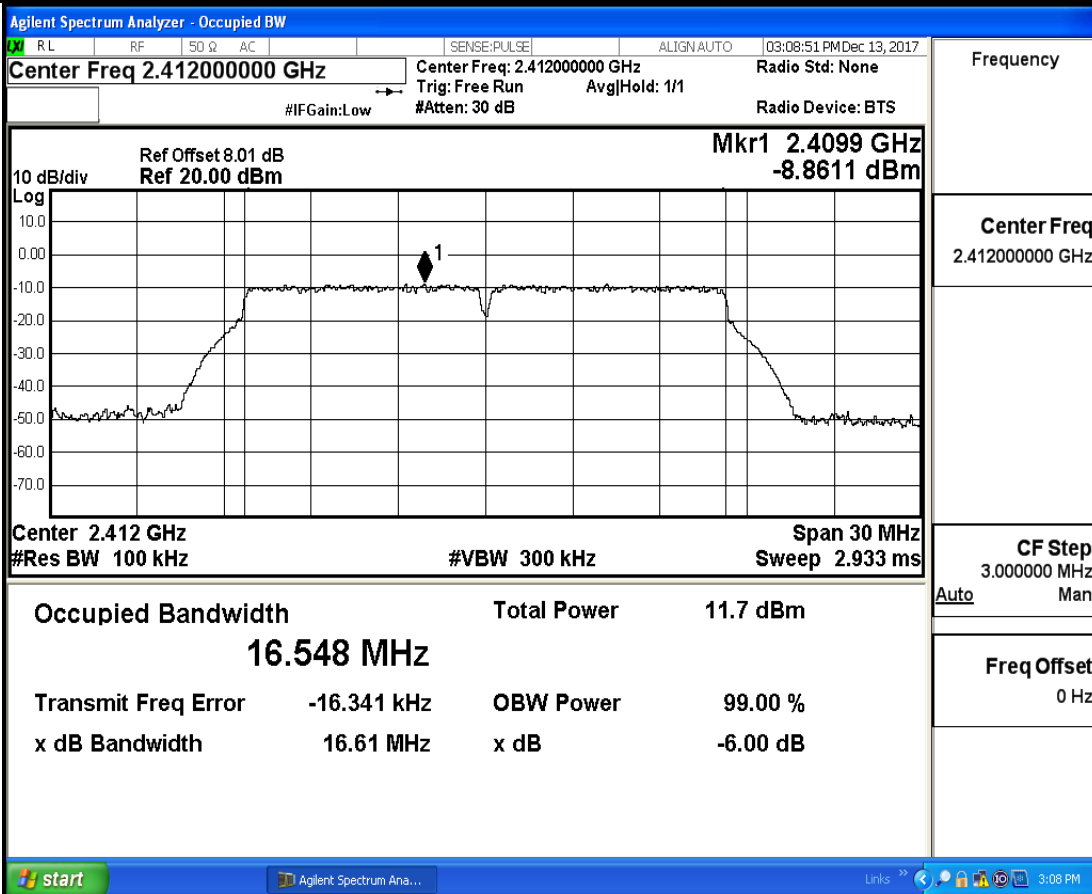
Occupied Bandwidth	Total Power	15.8 dBm
12.291 MHz		
Transmit Freq Error	-4.556 kHz	OBW Power
		99.00 %
x dB Bandwidth	9.155 MHz	x dB
		-6.00 dB

Frequency: 2.437000000 GHz
 CF Step: 3.000000 MHz
 Freq Offset: 0 Hz

6dB Bandwidth_11B_2462_Ant1



6dB Bandwidth_11G_2412_Ant1



6dB Bandwidth_11G_2437_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 03:26:24 PM Dec 13, 2017

Center Freq 2.43700000 GHz Center Freq: 2.437000000 GHz Radio Std: None
 #IFGain:Low Trig: Free Run AvgHold: 1/1 Radio Device: BTS
 #Atten: 30 dB

Ref Offset 8.01 dB Mkr1 2.43853 GHz
 Ref 20.00 dBm -9.0367 dBm

Center 2.437 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth	Total Power	11.5 dBm
16.542 MHz		
Transmit Freq Error	-16.788 kHz	OBW Power 99.00 %
x dB Bandwidth	16.61 MHz	x dB -6.00 dB

Frequency: 2.43700000 GHz

CF Step: 3.000000 MHz (Auto)

Freq Offset: 0 Hz

start Agilent Spectrum Ana... Links 3:26 PM

6dB Bandwidth_11G_2462_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 03:28:23 PM Dec 13, 2017

Center Freq 2.46200000 GHz Center Freq: 2.462000000 GHz Radio Std: None
 #IFGain:Low Trig: Free Run AvgHold: 1/1 Radio Device: BTS
 #Atten: 30 dB

Ref Offset 8.01 dB Mkr1 2.4599 GHz
 Ref 20.00 dBm -8.8171 dBm

Center 2.462 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth	Total Power	11.7 dBm
16.506 MHz		
Transmit Freq Error	-12.739 kHz	OBW Power 99.00 %
x dB Bandwidth	16.61 MHz	x dB -6.00 dB

Frequency: 2.46200000 GHz

CF Step: 3.000000 MHz (Auto)

Freq Offset: 0 Hz

start Agilent Spectrum Ana... Links 3:28 PM

6dB Bandwidth_11N20SISO_2412_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 03:31:41 PM Dec 13, 2017

Center Freq 2.41200000 GHz Center Freq: 2.41200000 GHz Radio Std: None
 Trig: Free Run Avg|Hold:>1/1
 #IFGain:Low #Atten: 30 dB Radio Device: BTS

Ref Offset 8.01 dB Mkr1 2.40912 GHz
 Ref 20.00 dBm -8.6445 dBm

10 dB/div Log
 Center 2.412 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth	Total Power	11.4 dBm
17.672 MHz		
Transmit Freq Error	6.588 kHz	OBW Power 99.00 %
x dB Bandwidth	17.81 MHz	x dB -6.00 dB

Frequency: 2.41200000 GHz
 CF Step: 3.000000 MHz (Auto)
 Freq Offset: 0 Hz

start Agilent Spectrum Ana... Links 3:31 PM

6dB Bandwidth_11N20SISO_2437_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 03:34:05 PM Dec 13, 2017

Center Freq 2.43700000 GHz Center Freq: 2.43700000 GHz Radio Std: None
 Trig: Free Run Avg|Hold:>1/1
 #IFGain:Low #Atten: 30 dB Radio Device: BTS

Ref Offset 8.01 dB Mkr1 2.43412 GHz
 Ref 20.00 dBm -8.8267 dBm

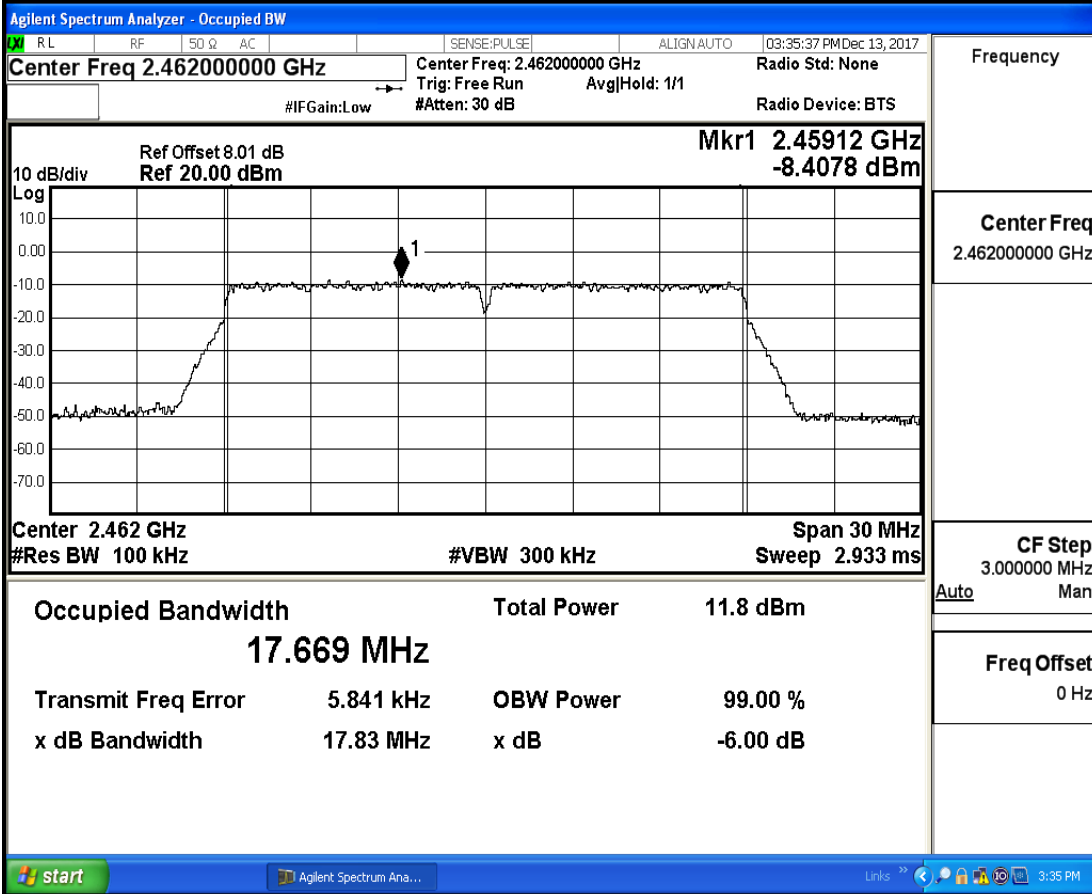
10 dB/div Log
 Center 2.437 GHz Span 30 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms

Occupied Bandwidth	Total Power	11.5 dBm
17.677 MHz		
Transmit Freq Error	8.092 kHz	OBW Power 99.00 %
x dB Bandwidth	17.84 MHz	x dB -6.00 dB

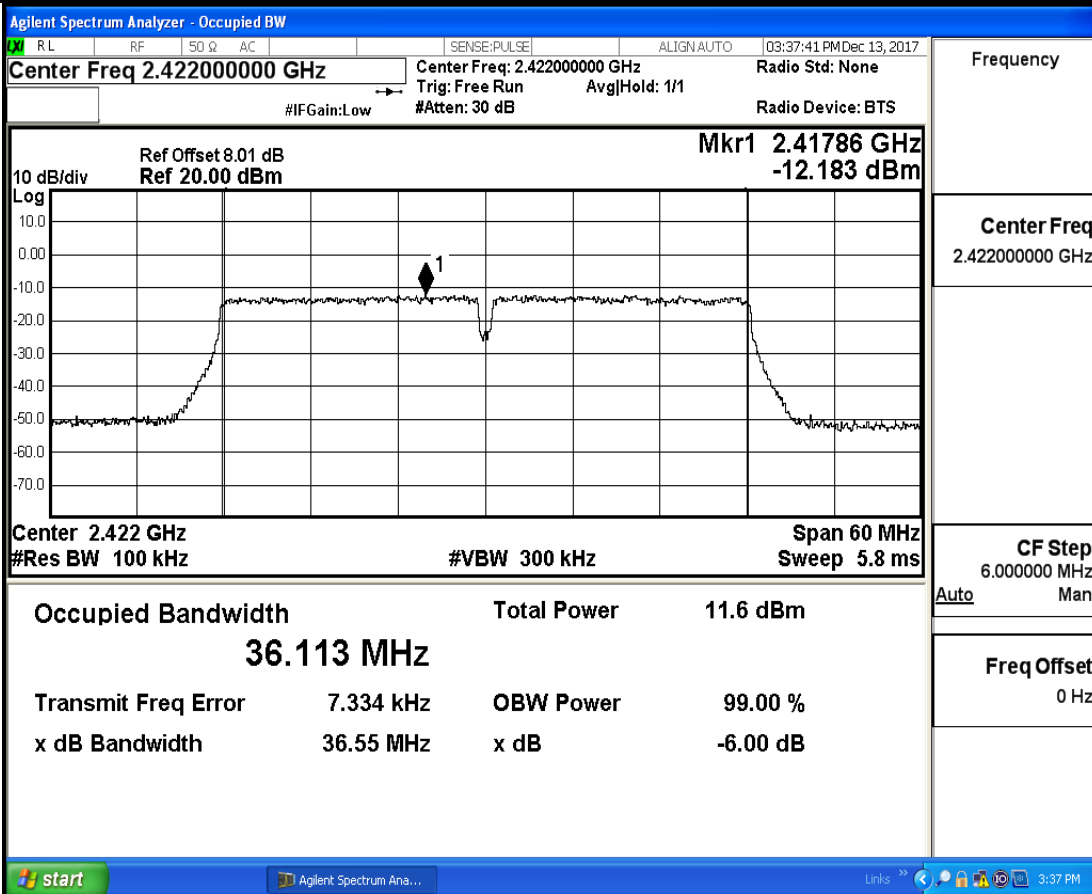
Frequency: 2.43700000 GHz
 CF Step: 3.000000 MHz (Auto)
 Freq Offset: 0 Hz

start Agilent Spectrum Ana... Links 3:34 PM

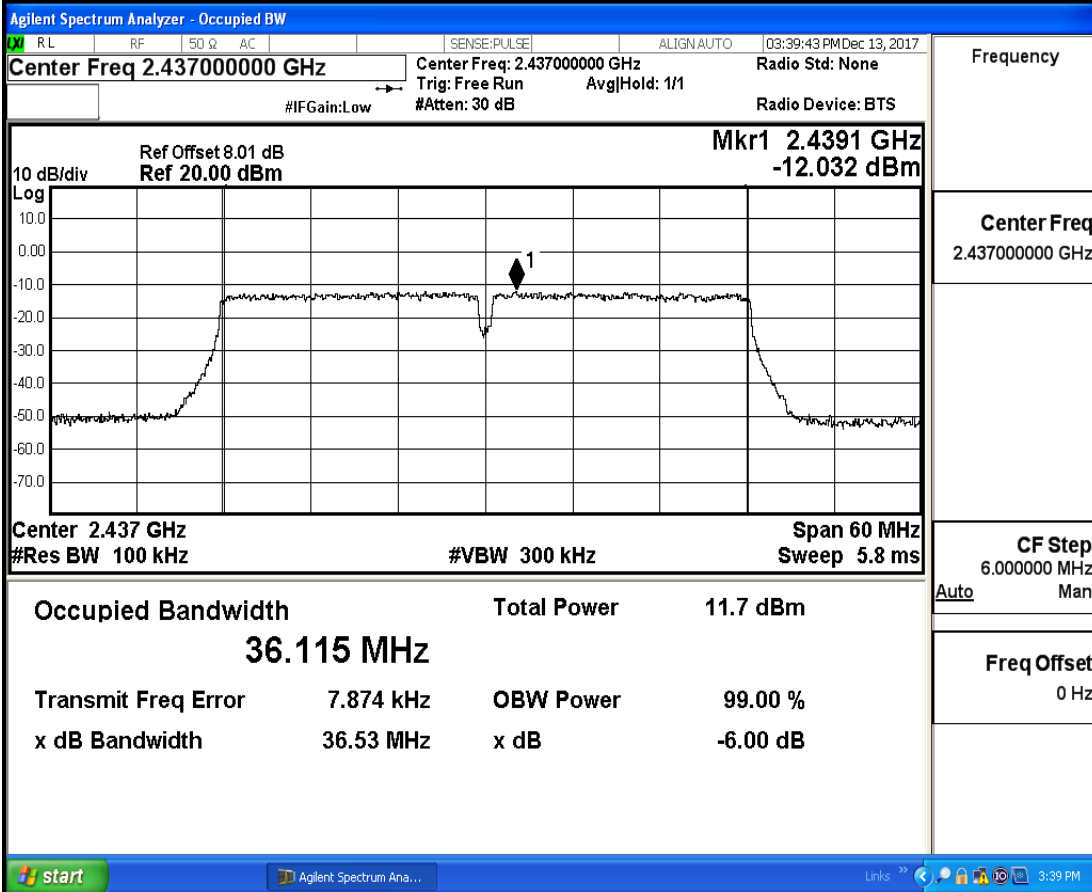
6dB Bandwidth_11N20SISO_2462_Ant1



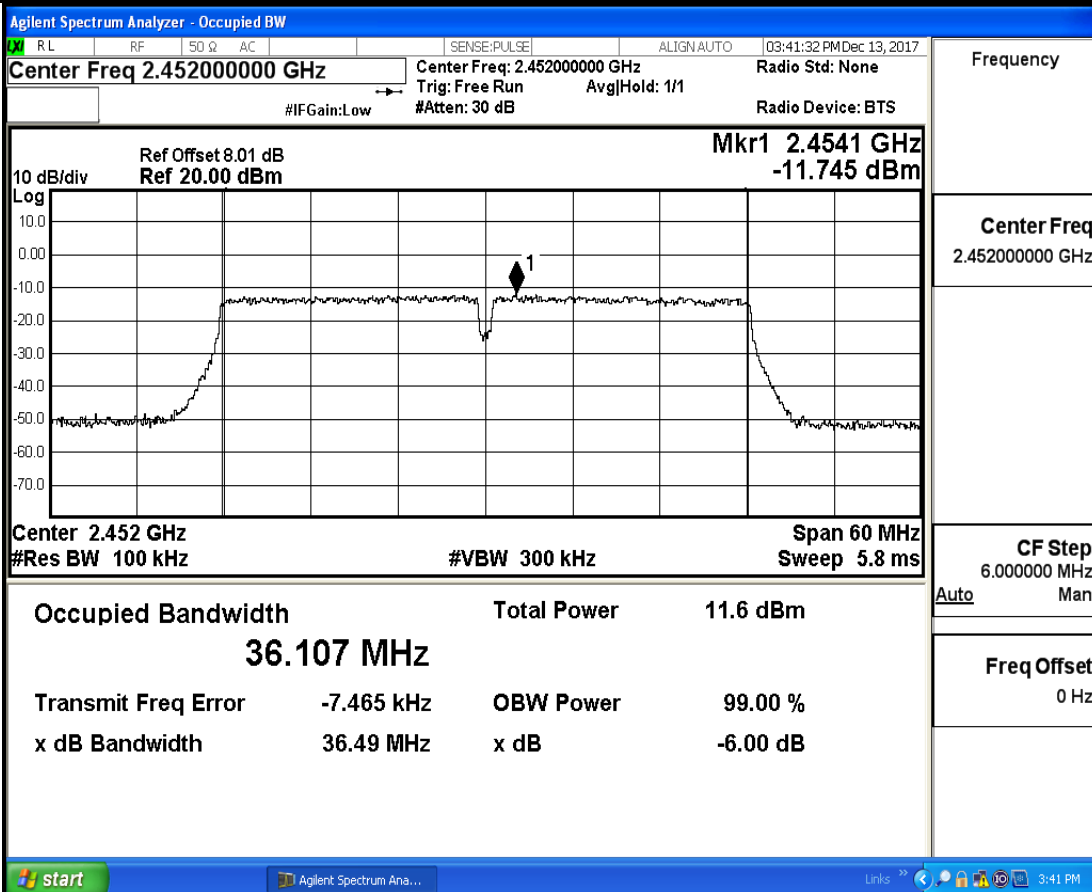
6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1



6dB Bandwidth_11N40SISO_2452_Ant1



A.2 Maximum peak conducted output power

Test Mode	Test Channel	Ant	Peak Power[dBm]	Limit[dBm]	Verdict
11B	2412	Ant1	11.42	30	PASS
11B	2437	Ant1	11.48	30	PASS
11B	2462	Ant1	11.56	30	PASS
11G	2412	Ant1	14.54	30	PASS
11G	2437	Ant1	14.60	30	PASS
11G	2462	Ant1	14.66	30	PASS
11N20SISO	2412	Ant1	13.99	30	PASS
11N20SISO	2437	Ant1	14.05	30	PASS
11N20SISO	2462	Ant1	14.12	30	PASS
11N40SISO	2422	Ant1	13.48	30	PASS
11N40SISO	2437	Ant1	13.55	30	PASS
11N40SISO	2452	Ant1	13.62	30	PASS

A.3 Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/30KHz]	Limit[dBm/3KHz]	Verdict
11B	2412	Ant1	-6.289	8.00	PASS
11B	2437	Ant1	-6.169	8.00	PASS
11B	2462	Ant1	-6.034	8.00	PASS
11G	2412	Ant1	-11.902	8.00	PASS
11G	2437	Ant1	-12.18	8.00	PASS
11G	2462	Ant1	-11.122	8.00	PASS
11N20SISO	2412	Ant1	-11.49	8.00	PASS
11N20SISO	2437	Ant1	-11.563	8.00	PASS
11N20SISO	2462	Ant1	-11.238	8.00	PASS
11N40SISO	2422	Ant1	-15.255	8.00	PASS
11N40SISO	2437	Ant1	-15.065	8.00	PASS
11N40SISO	2452	Ant1	-15.091	8.00	PASS

Maximum Peak power spectral density_11B_2412_Ant1



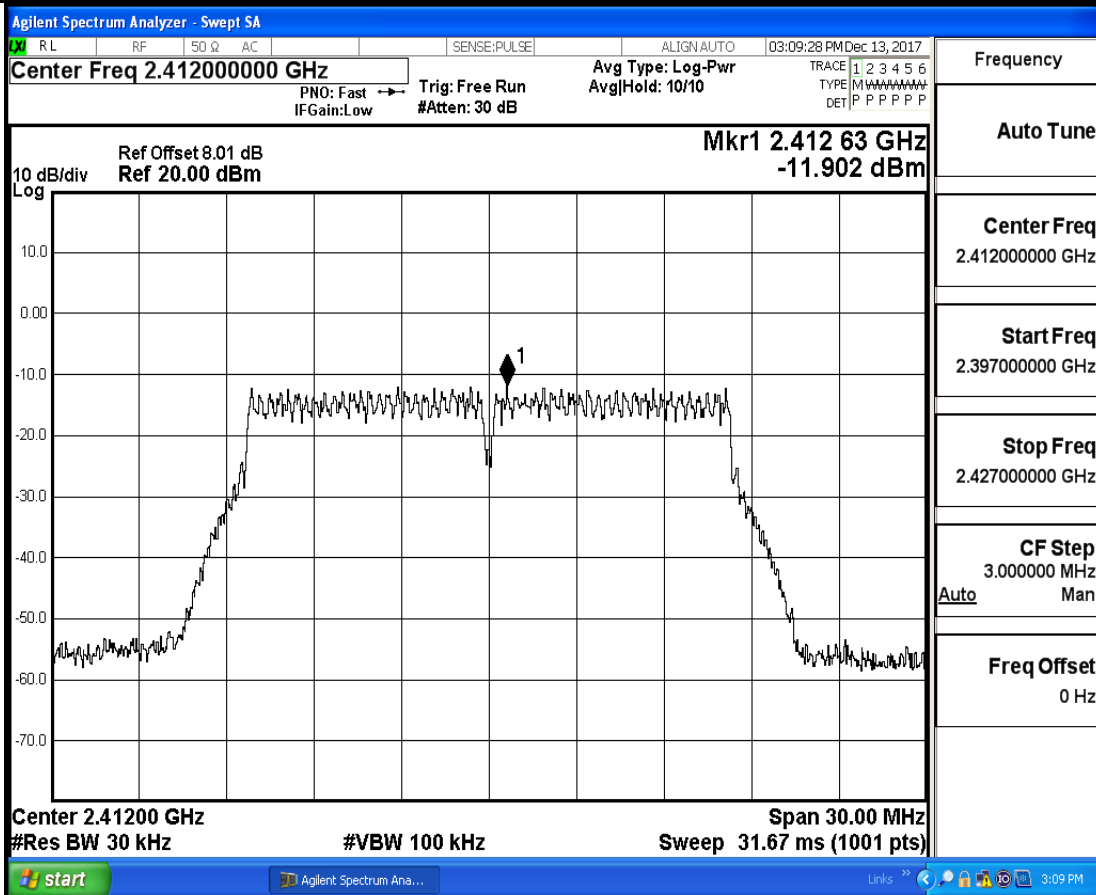
Maximum Peak power spectral density_11B_2437_Ant1



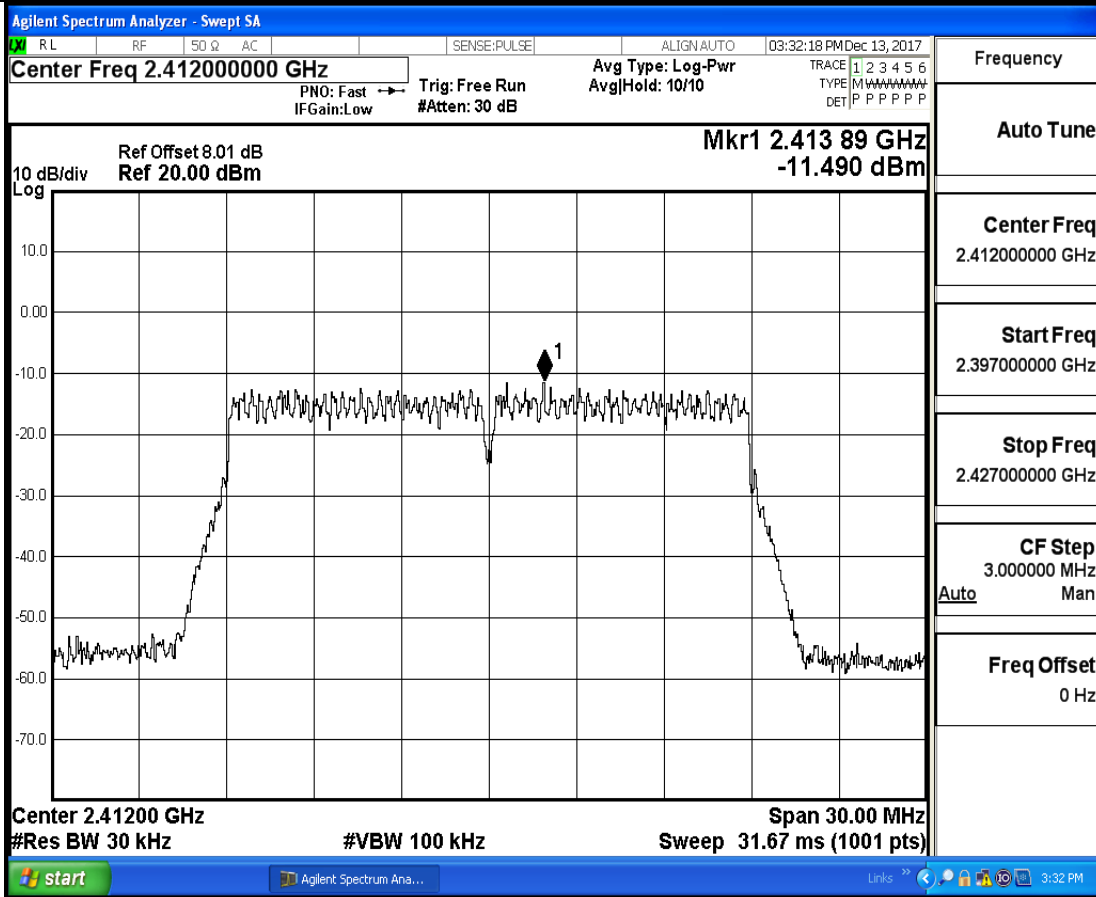
Maximum Peak power spectral density_11B_2462_Ant1



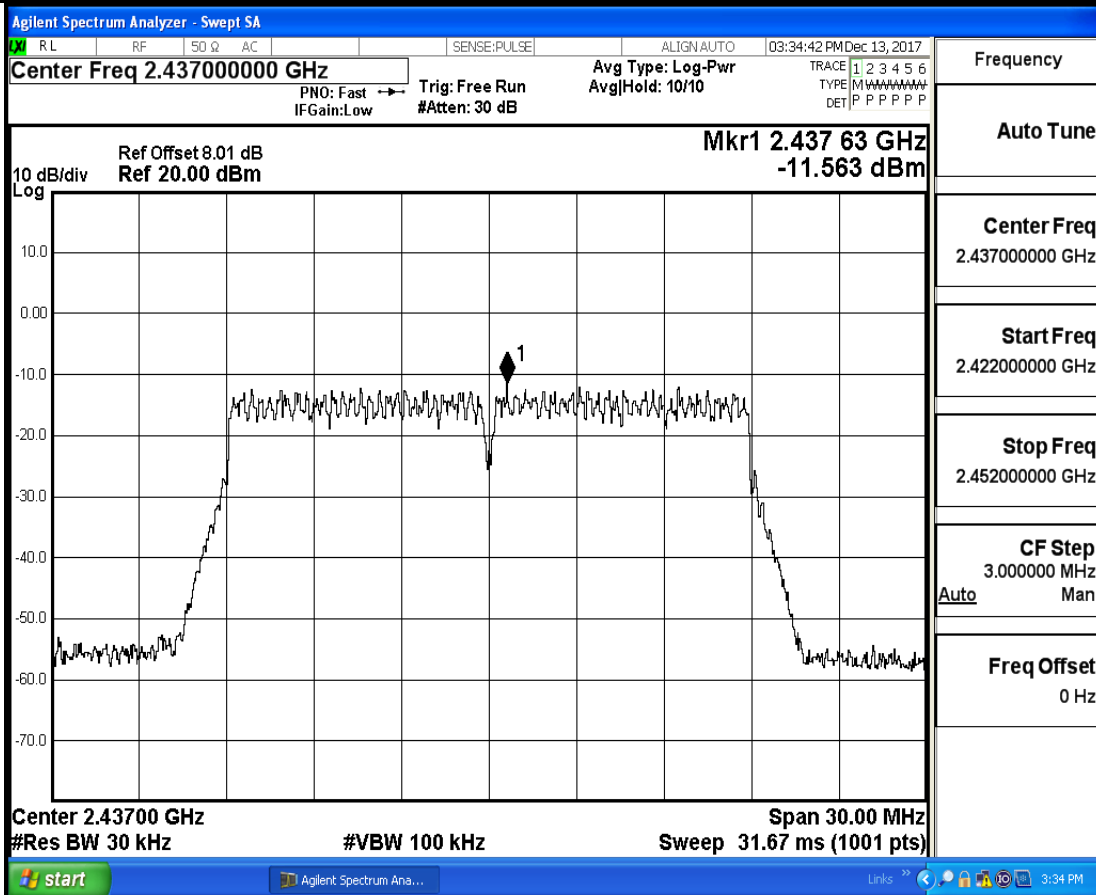
Maximum Peak power spectral density_11G_2412_Ant1



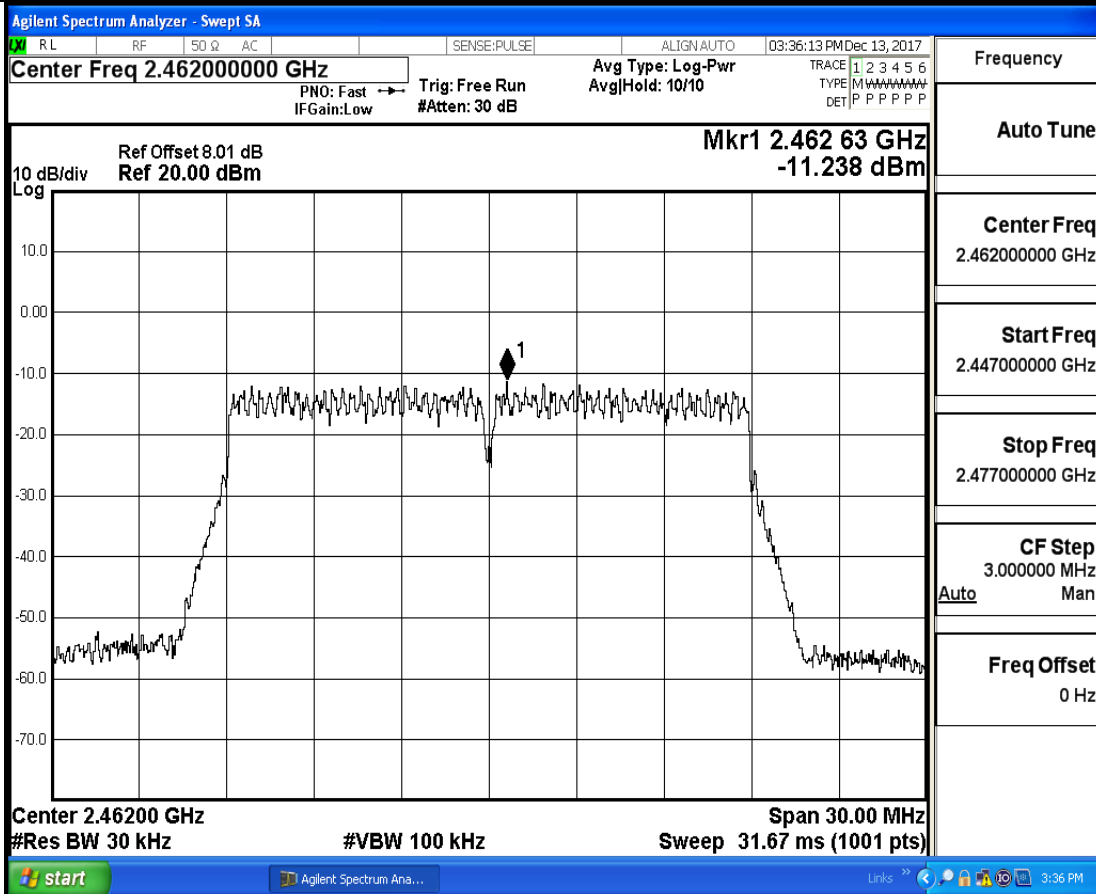
Maximum Peak power spectral density_11N20SISO_2412_Ant1



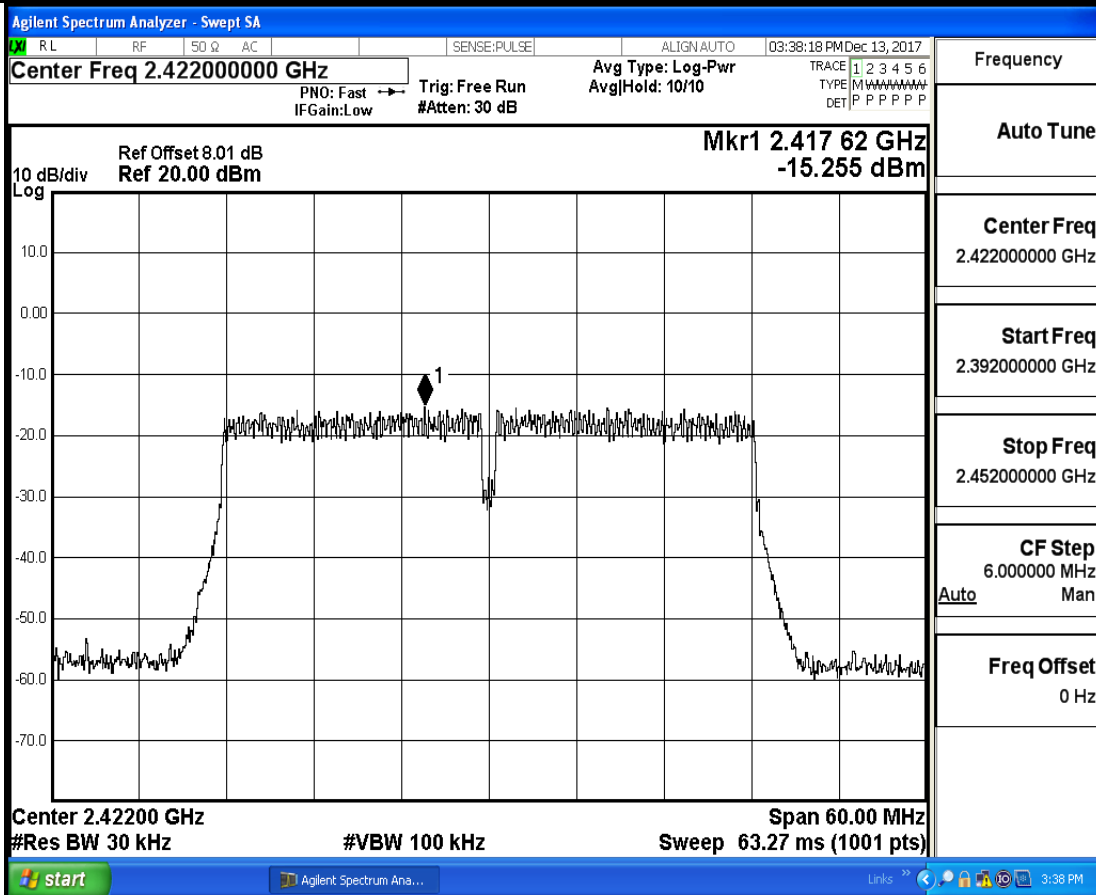
Maximum Peak power spectral density_11N20SISO_2437_Ant1



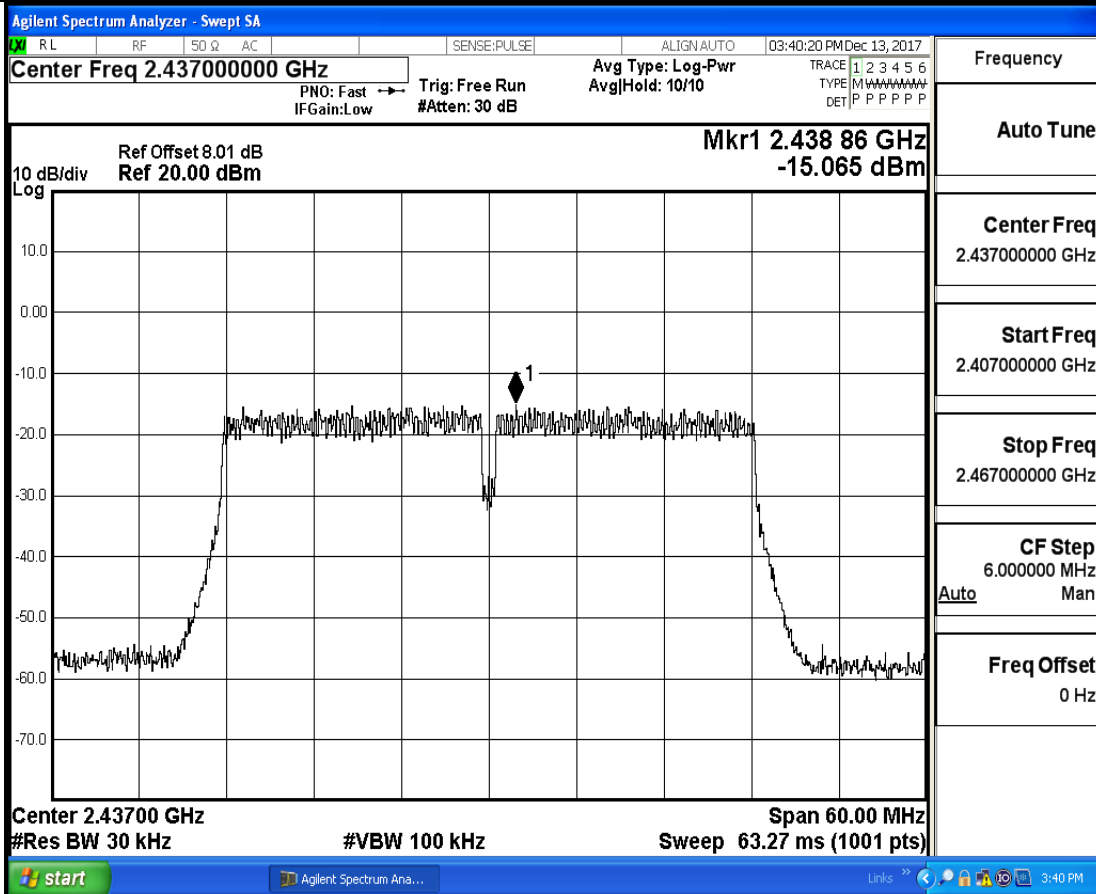
Maximum Peak power spectral density_11N20SISO_2462_Ant1



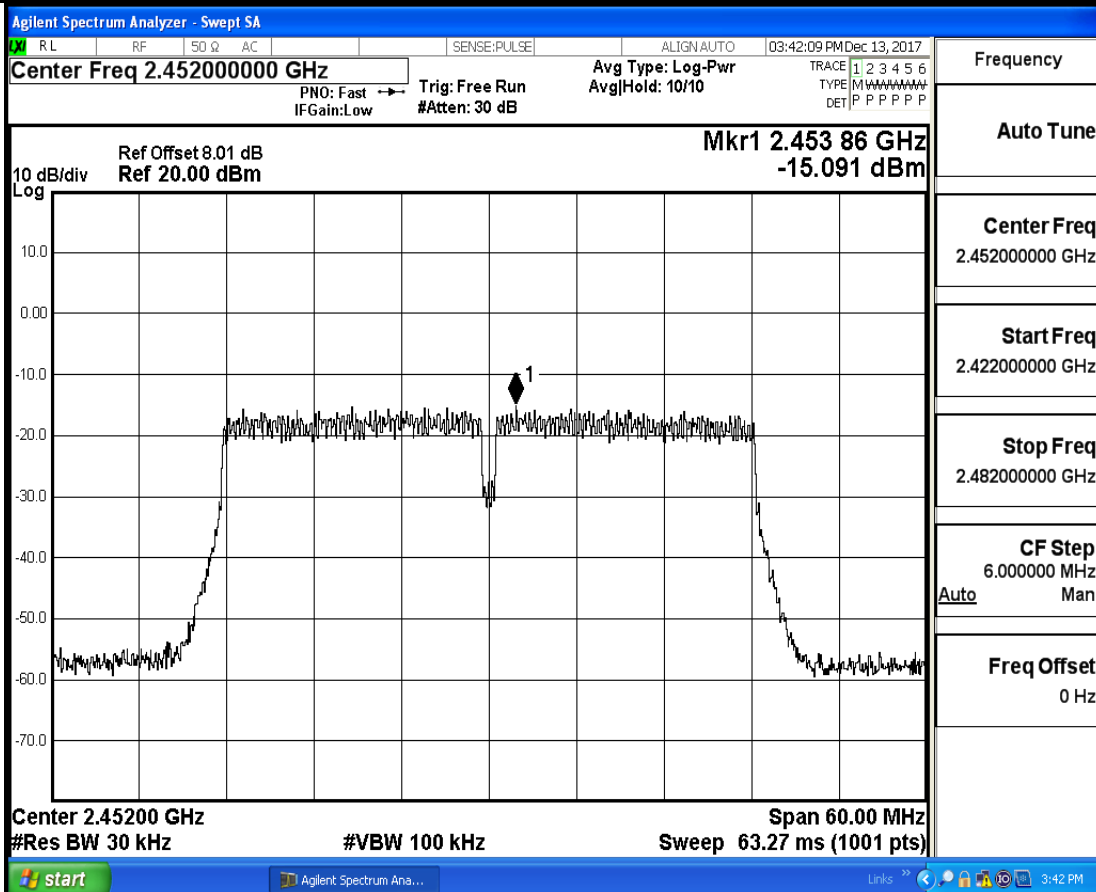
Maximum Peak power spectral density_11N40SISO_2422_Ant1



Maximum Peak power spectral density_11N40SISO_2437_Ant1



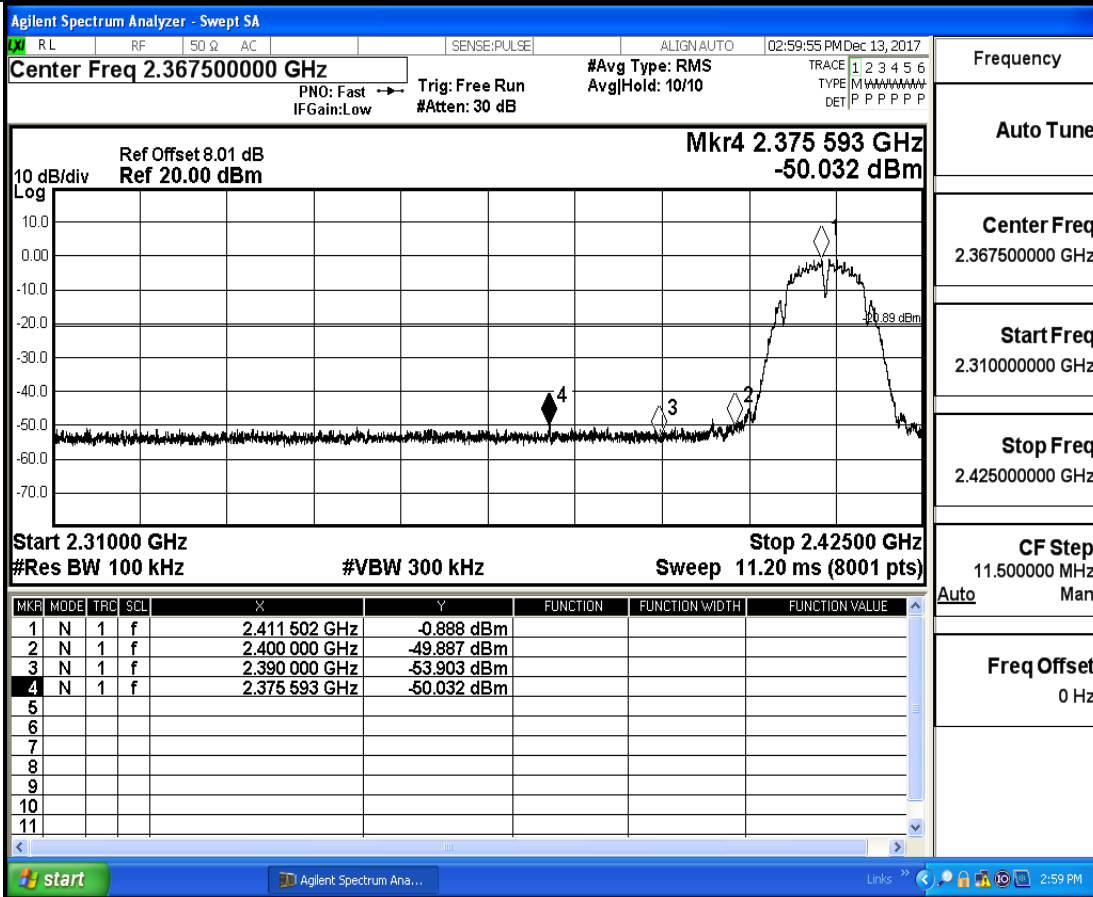
Maximum Peak power spectral density_11N40SISO_2452_Ant1



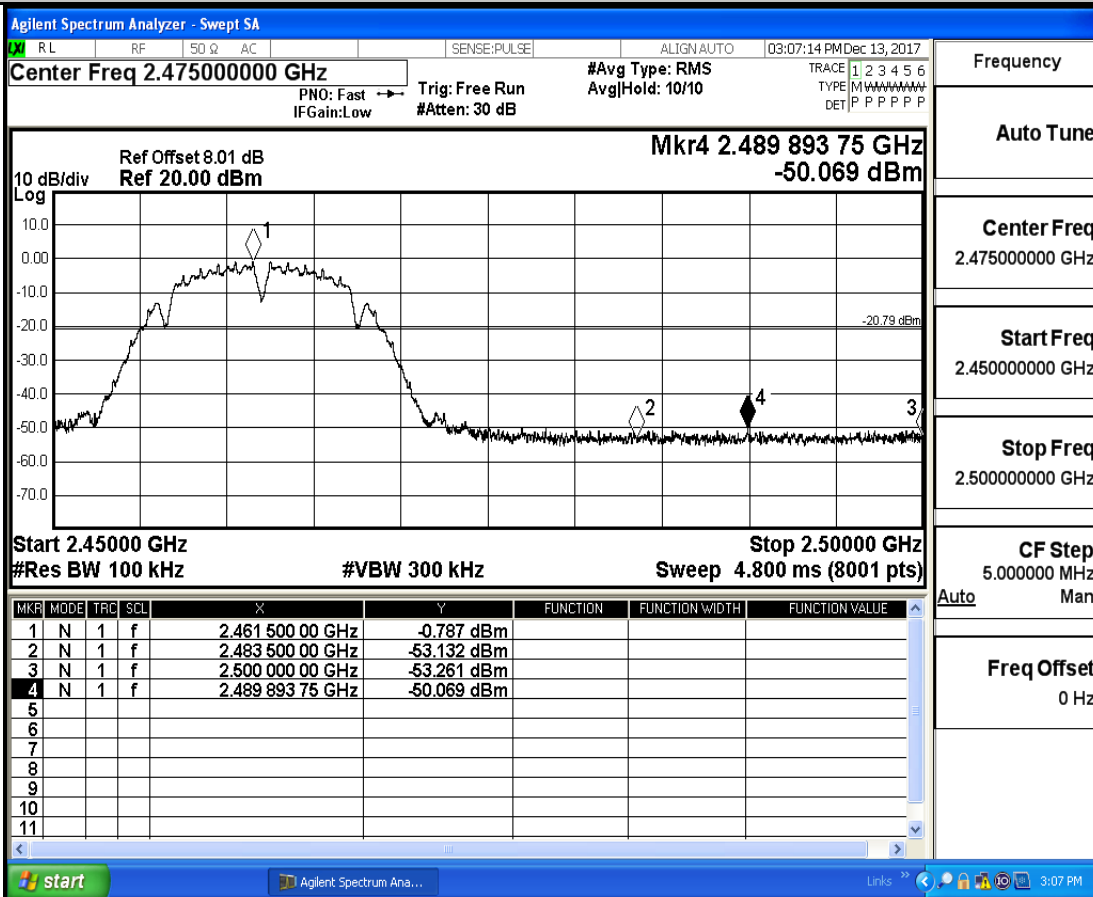
A.4 Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	-0.888	-50.032	-20.89	PASS
11B	2462	Ant1	-0.787	-50.069	-20.79	PASS
11G	2412	Ant1	-8.932	-49.732	-28.93	PASS
11G	2462	Ant1	-8.881	-49.437	-28.88	PASS
11N20SISO	2412	Ant1	-9.126	-50.012	-29.13	PASS
11N20SISO	2462	Ant1	-8.322	-49.900	-28.32	PASS
11N40SISO	2422	Ant1	-12.620	-48.717	-32.62	PASS
11N40SISO	2452	Ant1	-12.175	-49.684	-32.18	PASS

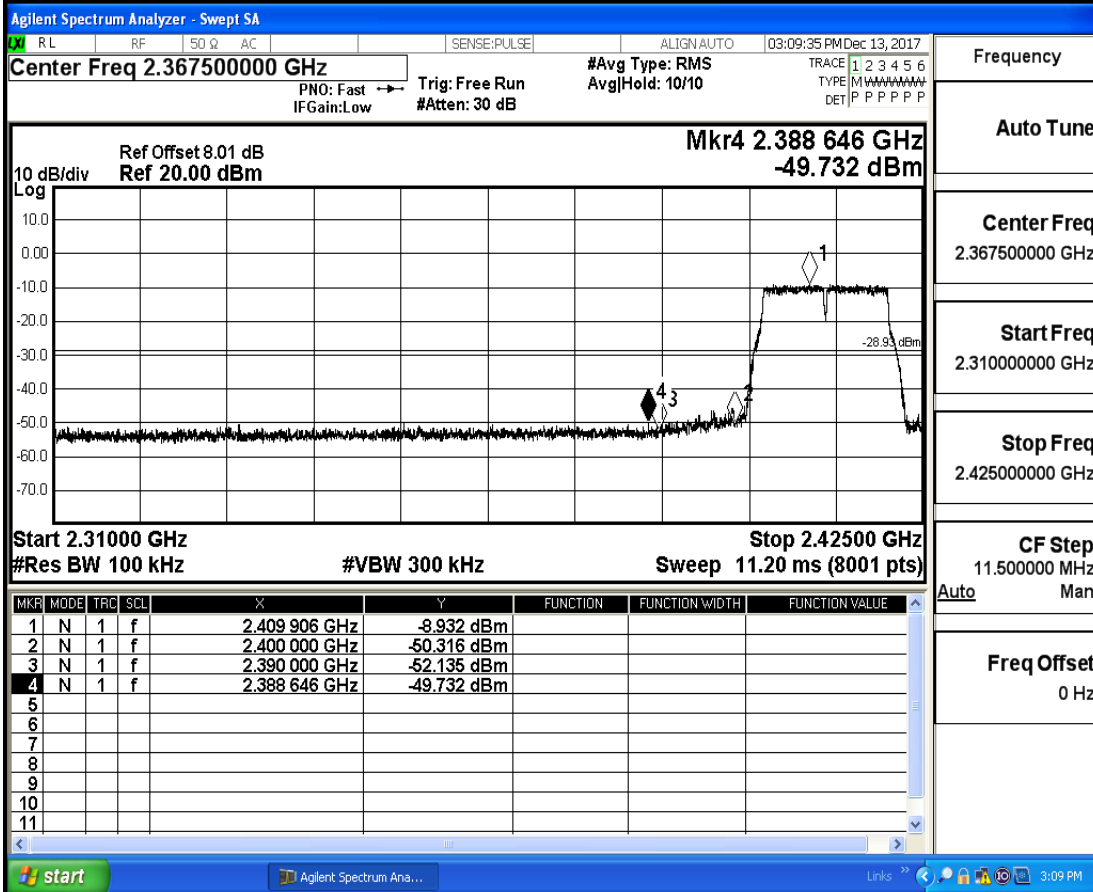
Band-edge for RF Conducted Emissions_11B_2412_Ant1



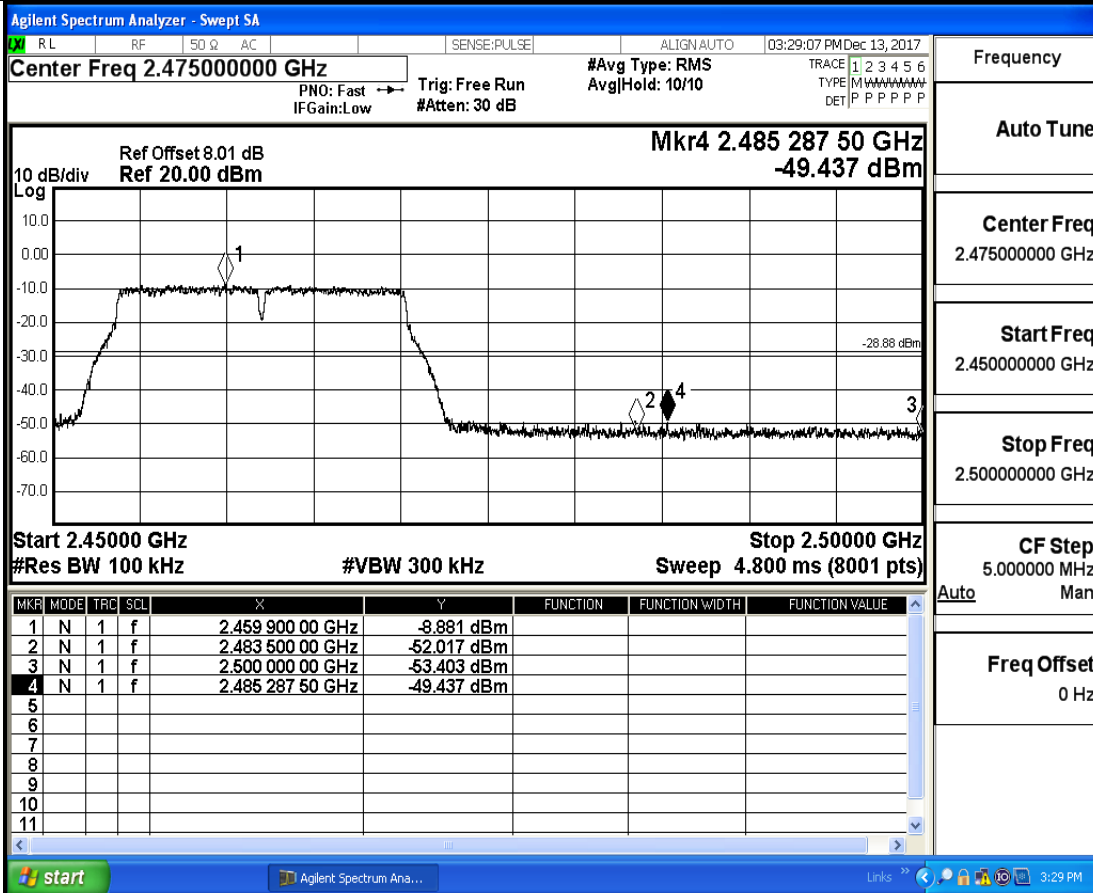
Band-edge for RF Conducted Emissions_11B_2462_Ant1



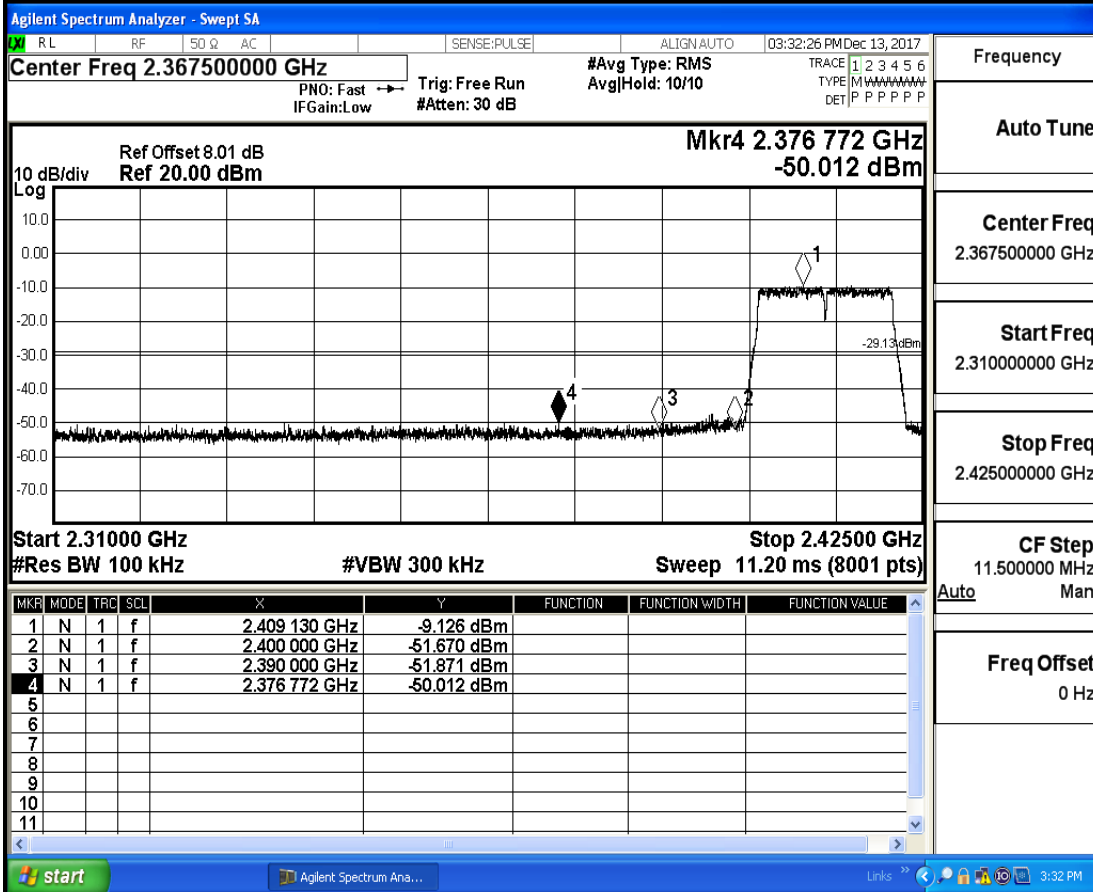
Band-edge for RF Conducted Emissions_11G_2412_Ant1



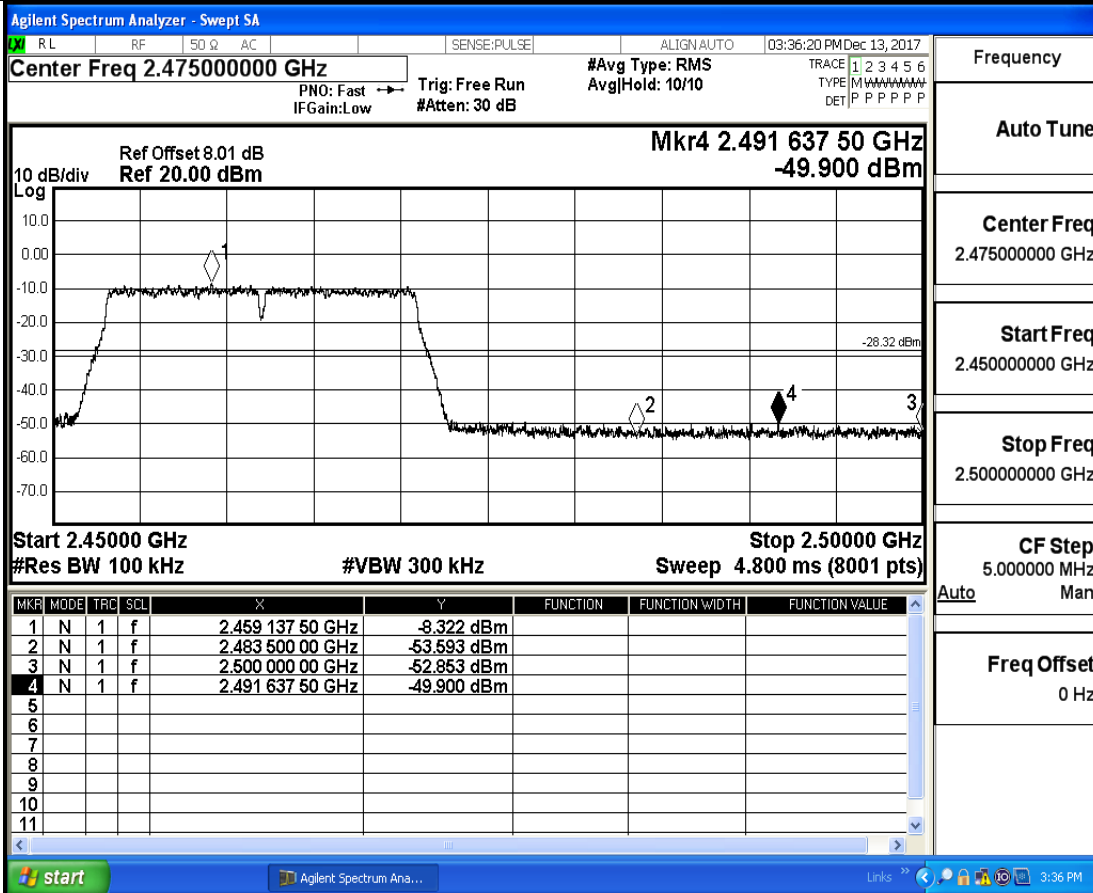
Band-edge for RF Conducted Emissions_11G_2462_Ant1



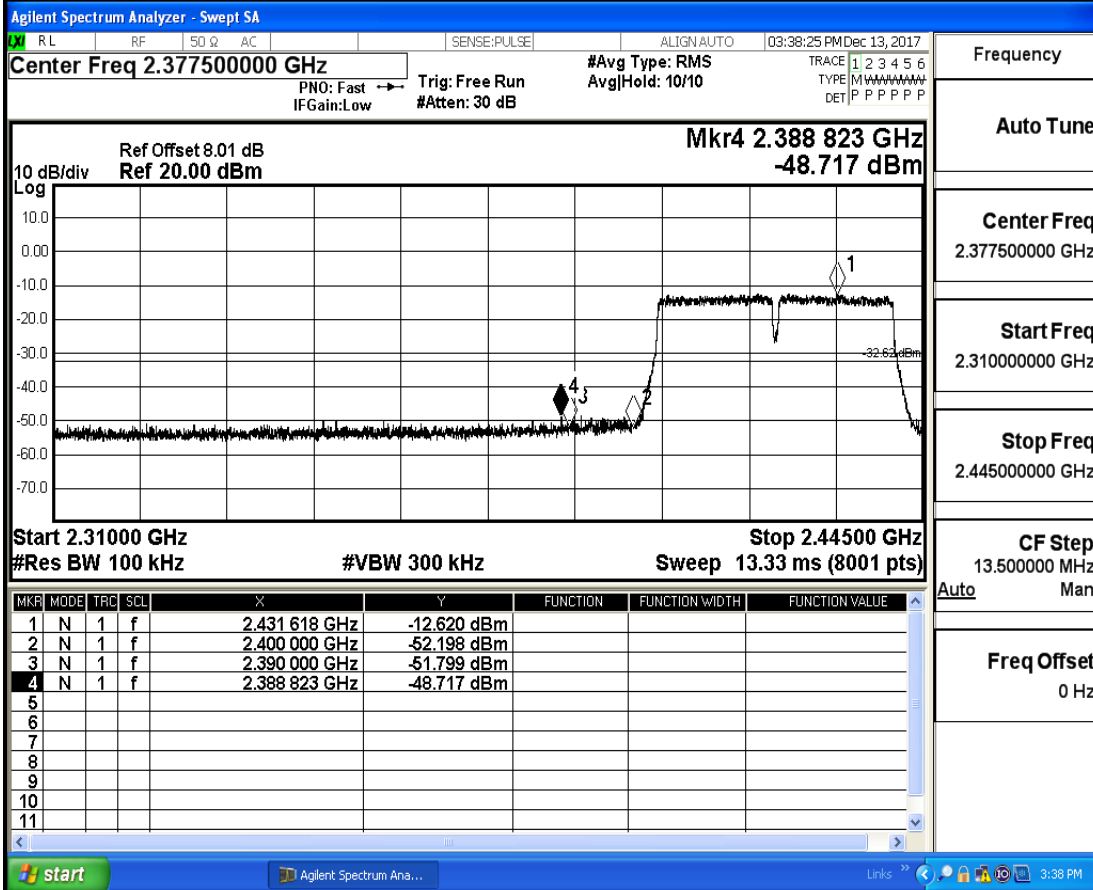
Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1



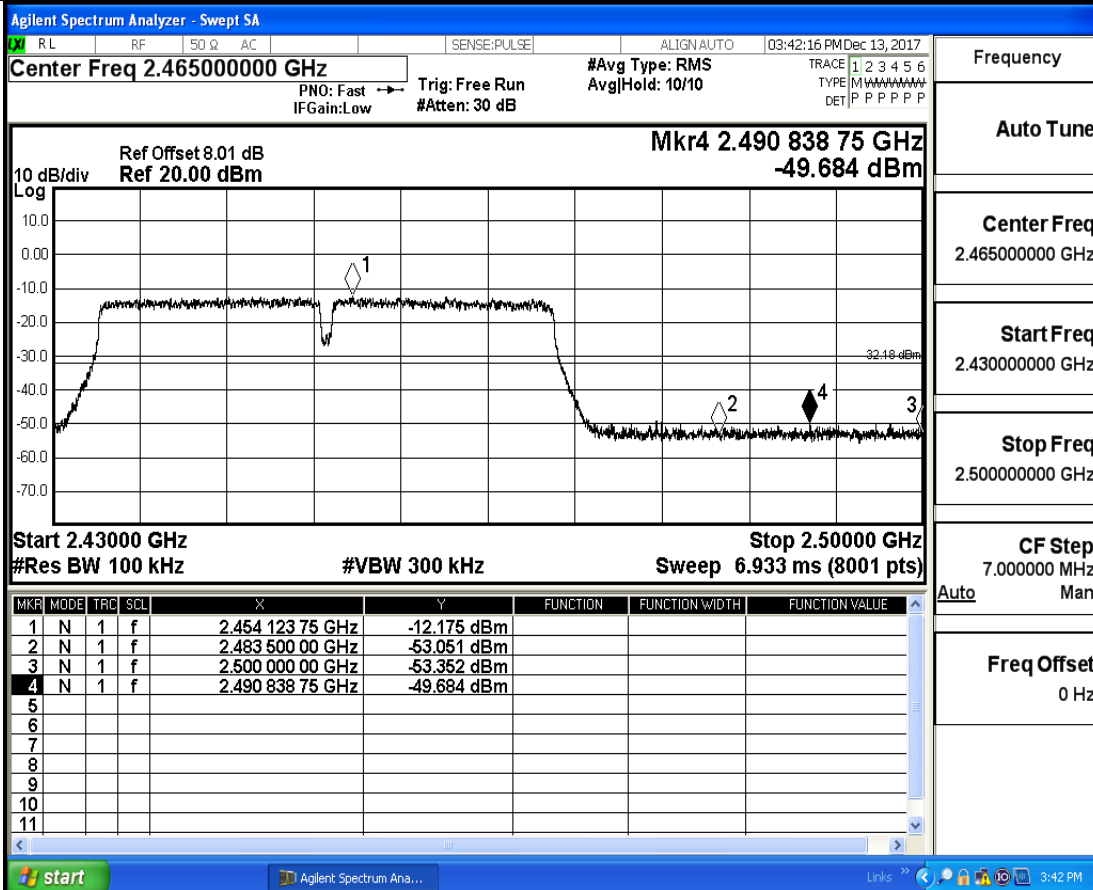
Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1



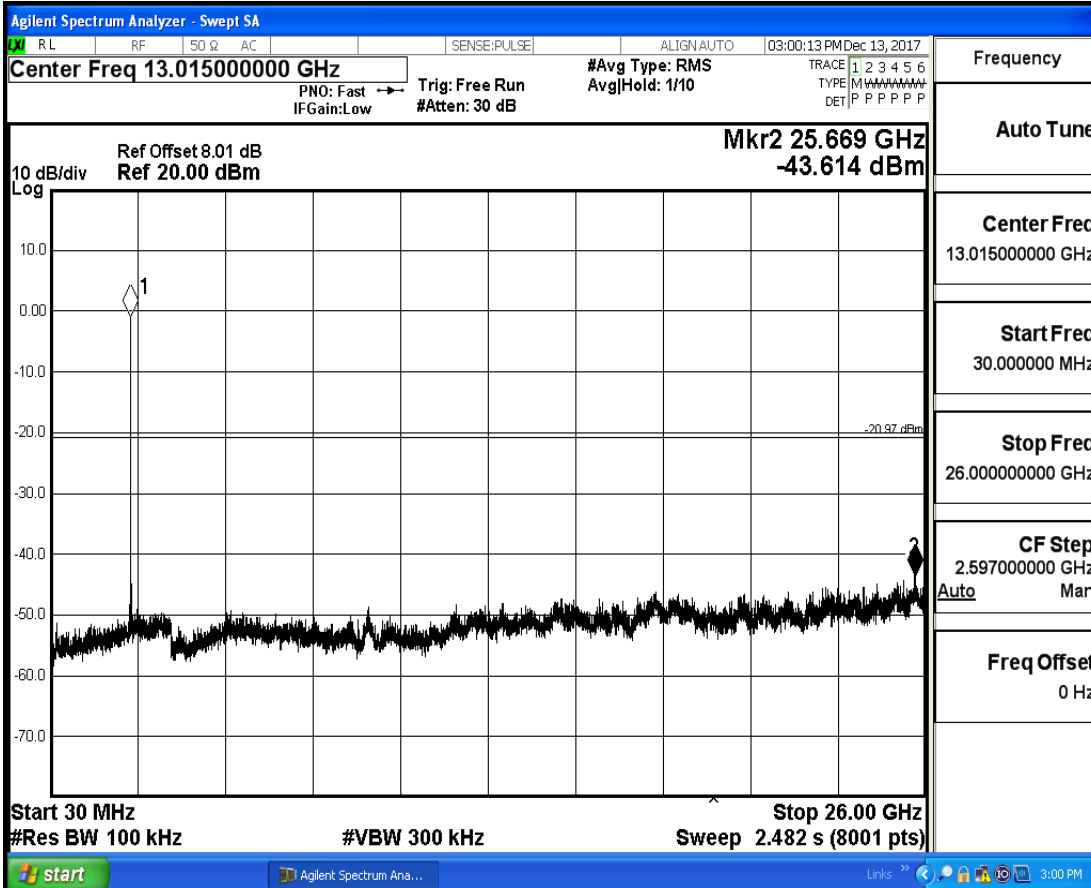
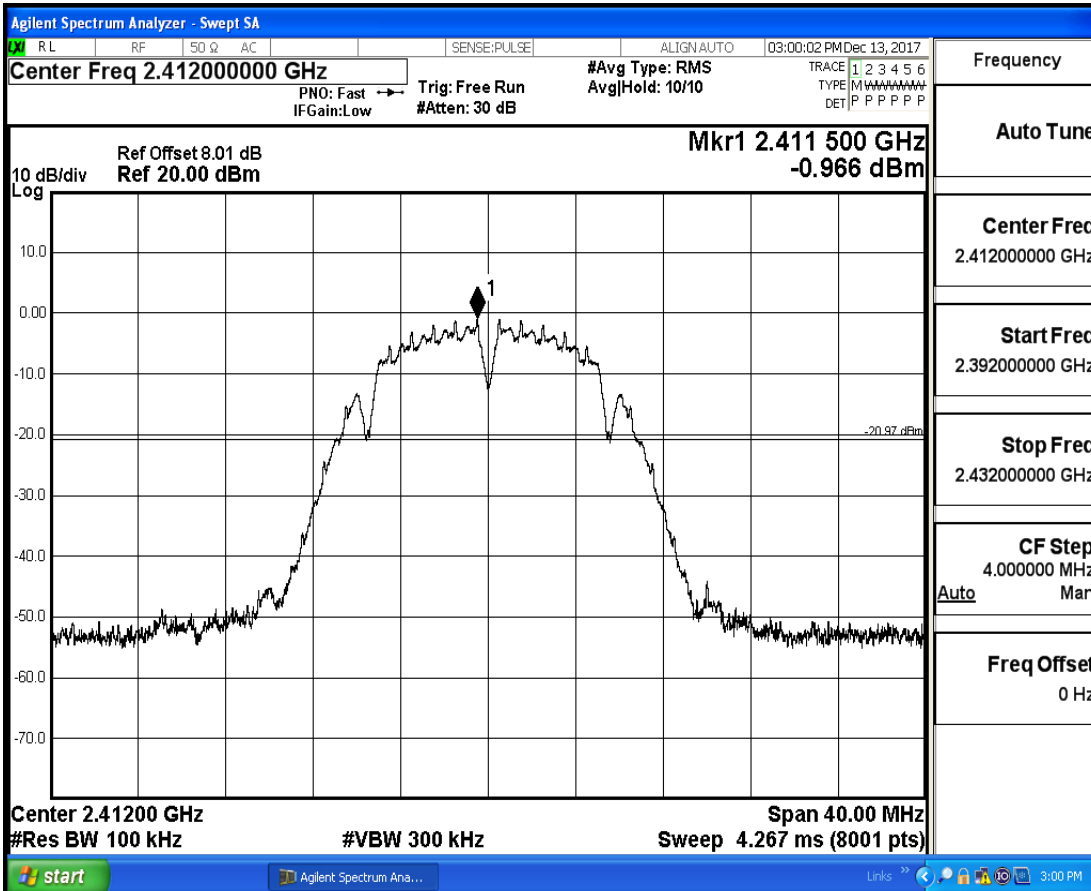
Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1



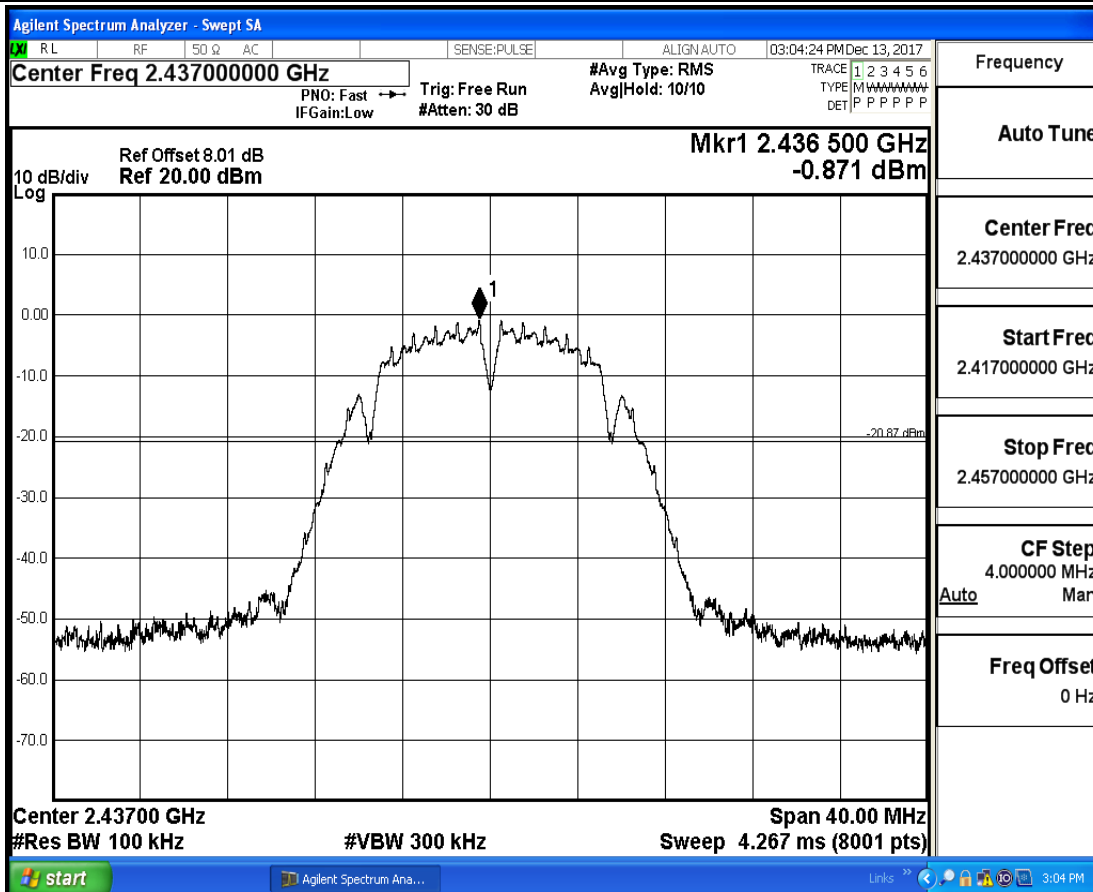
A.5 RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	30	26000	100	300	-0.966	-43.614	<- 20.966	PASS
11B	2437	Ant1	30	26000	100	300	-0.871	-41.433	<- 20.871	PASS
11B	2462	Ant1	30	26000	100	300	-0.824	-43.729	<- 20.824	PASS
11G	2412	Ant1	30	26000	100	300	-9.039	-42.847	<- 29.039	PASS
11G	2437	Ant1	30	26000	100	300	-9.301	-43.842	<- 29.301	PASS
11G	2462	Ant1	30	26000	100	300	-8.855	-43.784	<- 28.855	PASS
11N20SISO	2412	Ant1	30	26000	100	300	-8.769	-42.791	<- 28.769	PASS
11N20SISO	2437	Ant1	30	26000	100	300	-8.937	-42.219	<- 28.937	PASS
11N20SISO	2462	Ant1	30	26000	100	300	-8.358	-43.721	<- 28.358	PASS
11N40SISO	2422	Ant1	30	26000	100	300	-11.937	-43.238	<- 31.937	PASS
11N40SISO	2437	Ant1	30	26000	100	300	-11.866	-43.465	<- 31.866	PASS
11N40SISO	2452	Ant1	30	26000	100	300	-12.448	-44.233	<- 32.448	PASS

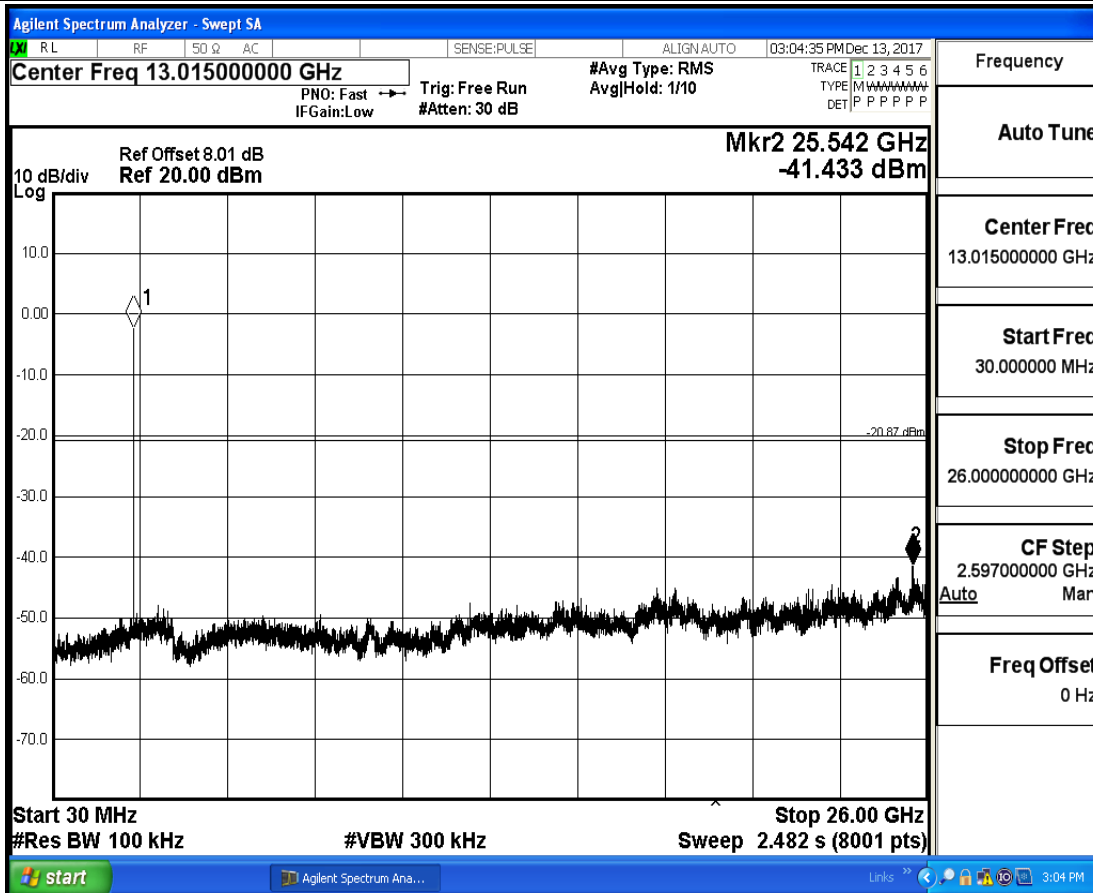
RF Conducted Spurious Emissions_11B_2412_Ant1



RF Conducted Spurious Emissions_11B_2437_Ant1

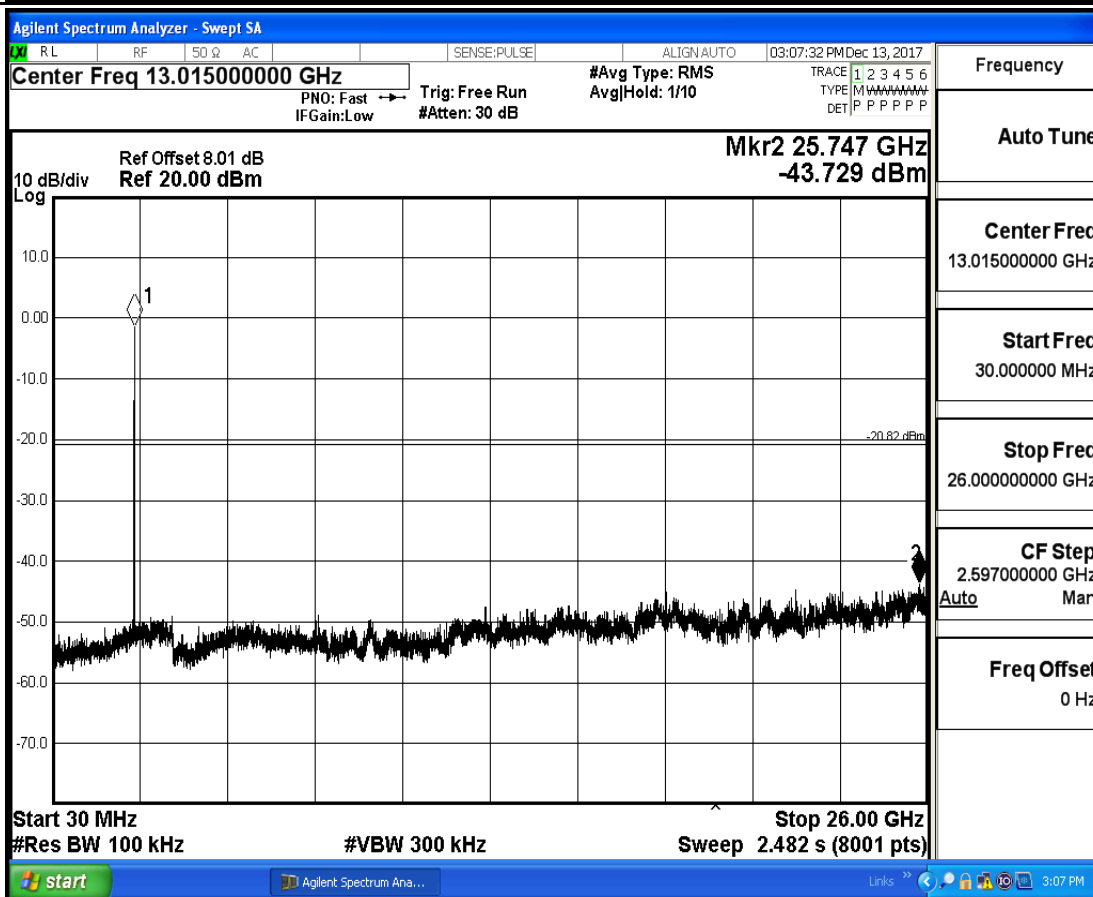
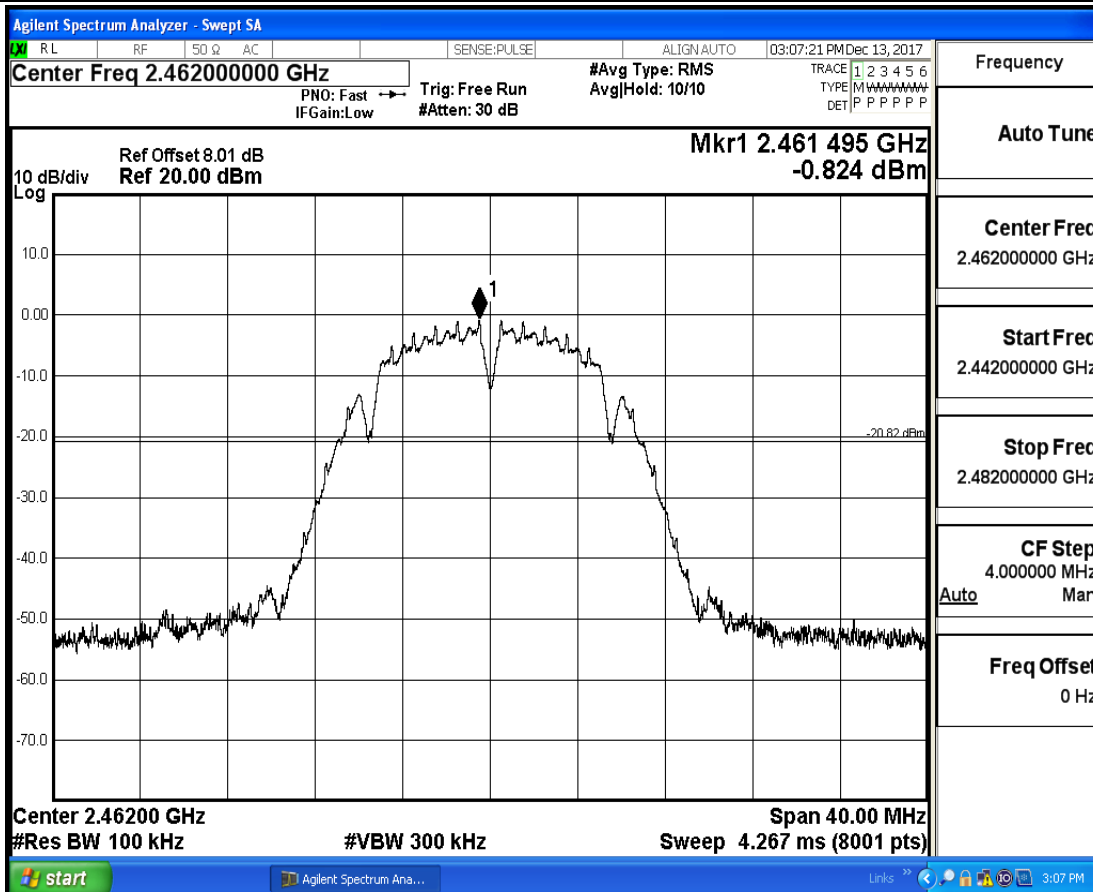


Frequency	
Auto Tune	
Center Freq	2.43700000 GHz
Start Freq	2.41700000 GHz
Stop Freq	2.45700000 GHz
CF Step	4.000000 MHz
Auto	Man
Freq Offset	0 Hz

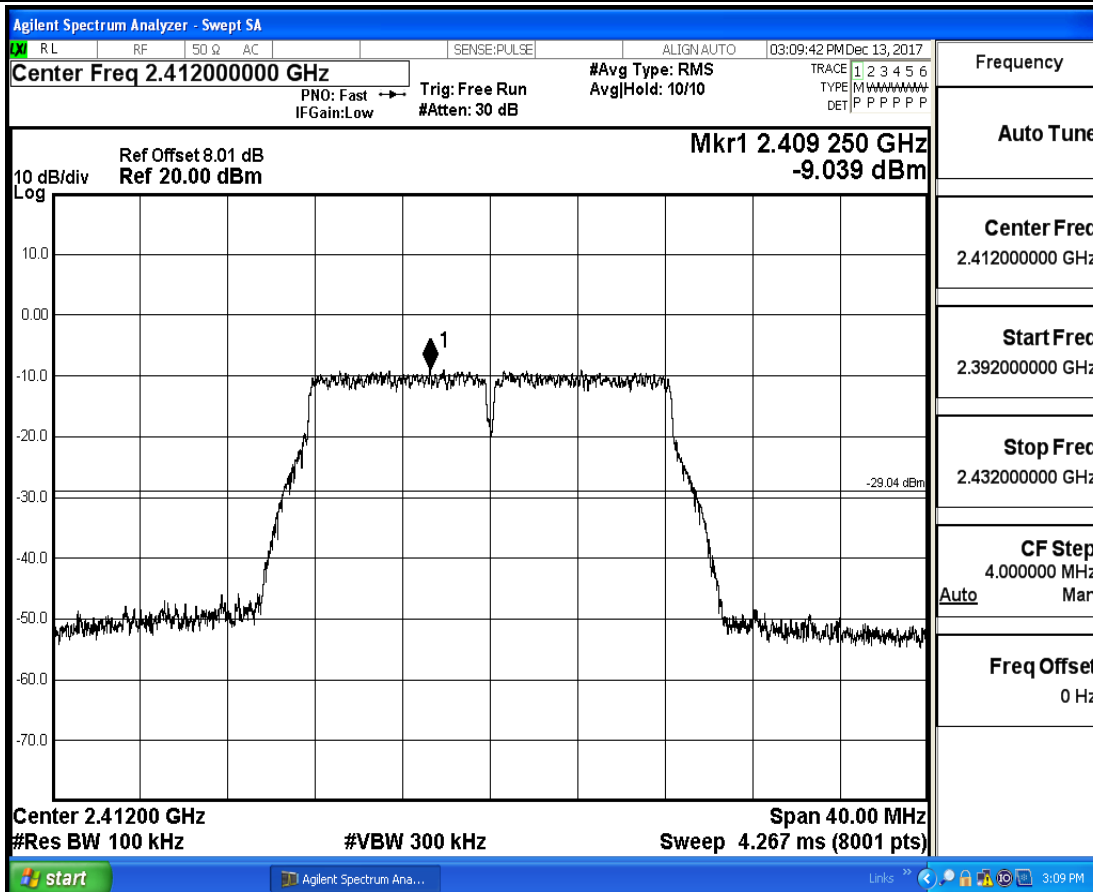


Frequency	
Auto Tune	
Center Freq	13.01500000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.00000000 GHz
CF Step	2.597000000 GHz
Auto	Man
Freq Offset	0 Hz

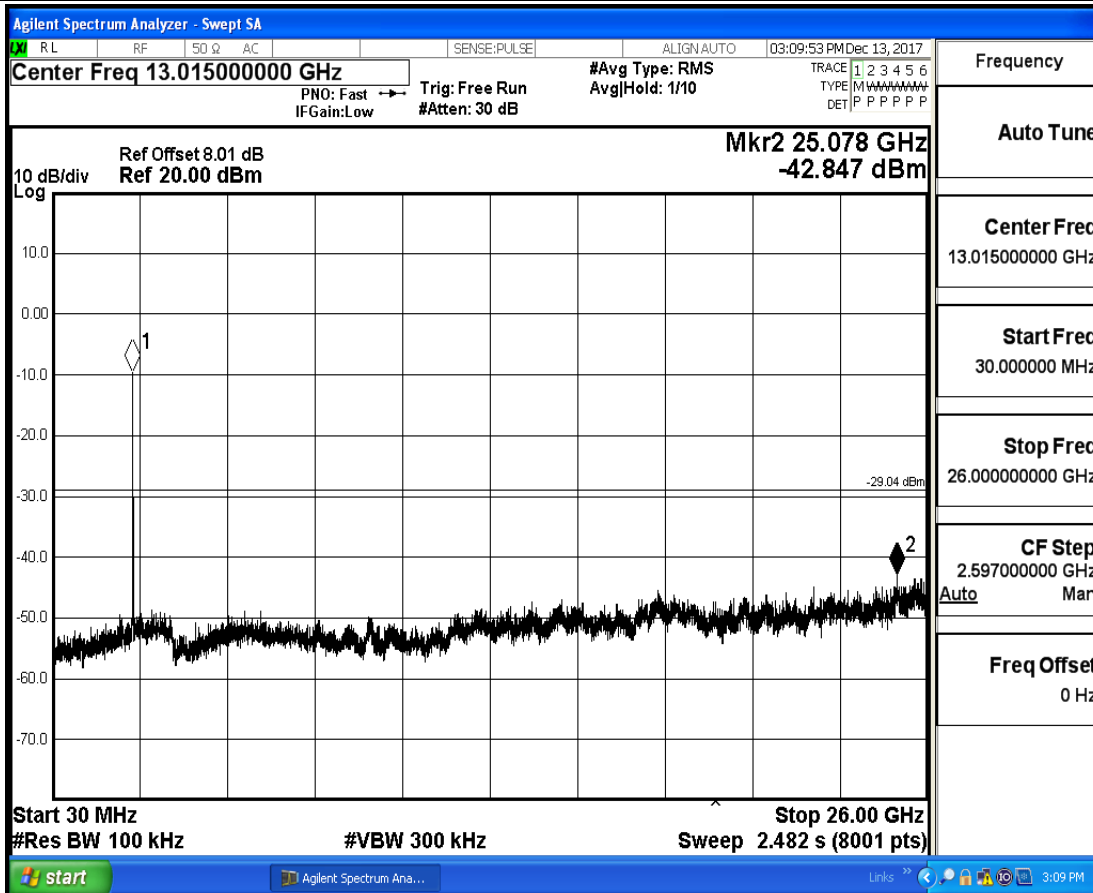
RF Conducted Spurious Emissions_11B_2462_Ant1



RF Conducted Spurious Emissions_11G_2412_Ant1

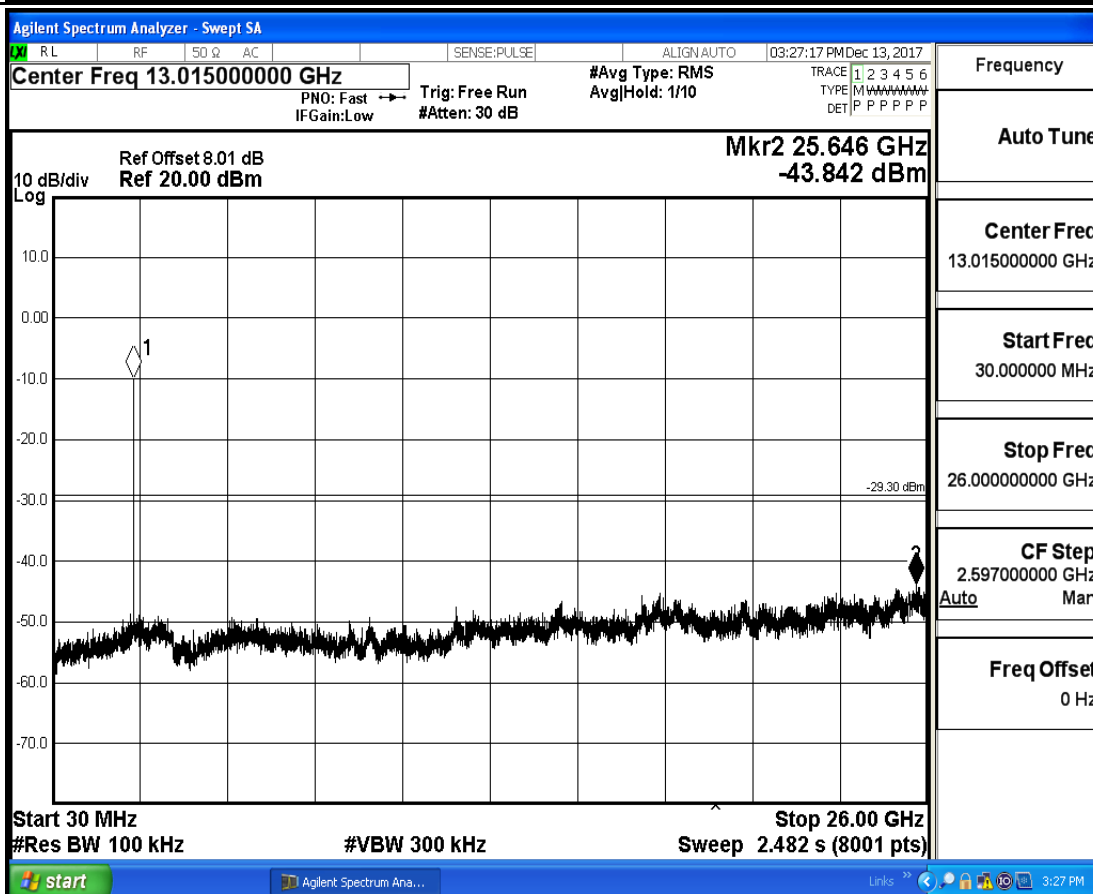
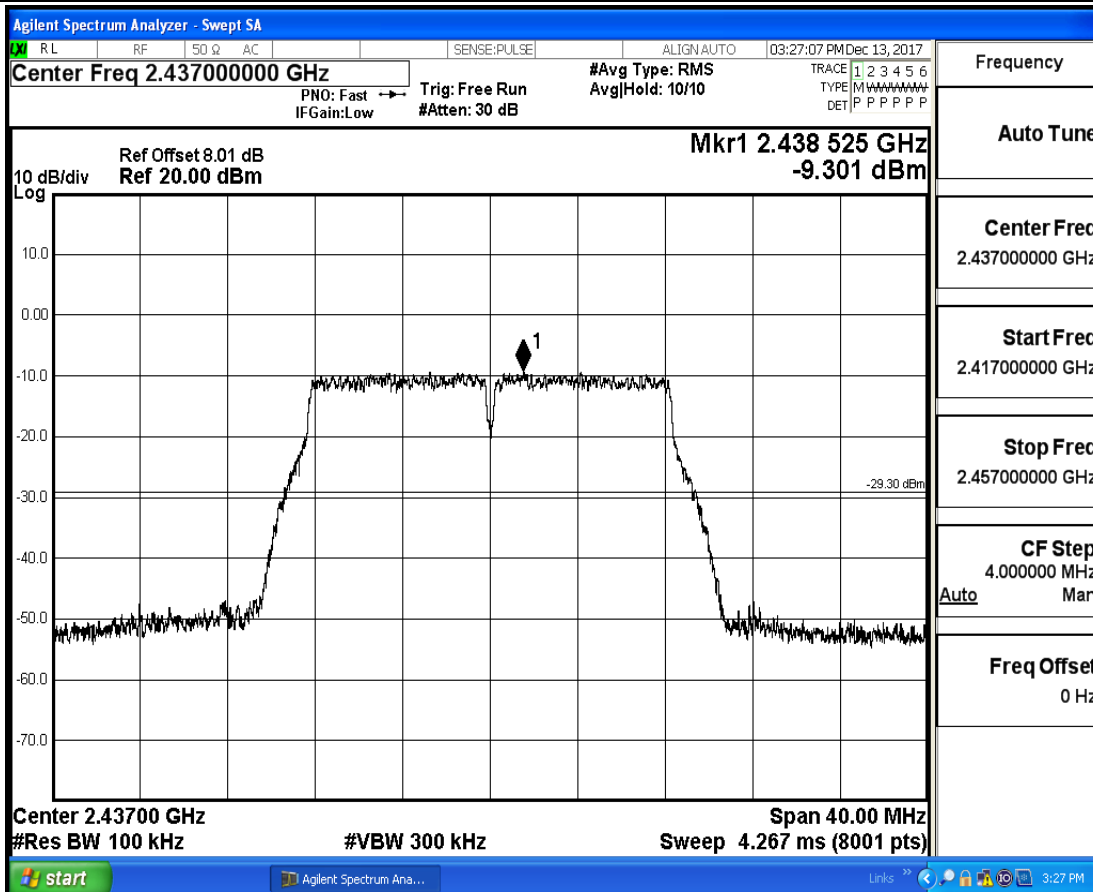


Frequency	
Auto Tune	
Center Freq	2.41200000 GHz
Start Freq	2.392000000 GHz
Stop Freq	2.432000000 GHz
CF Step	4.000000 MHz
Auto	Man
Freq Offset	0 Hz

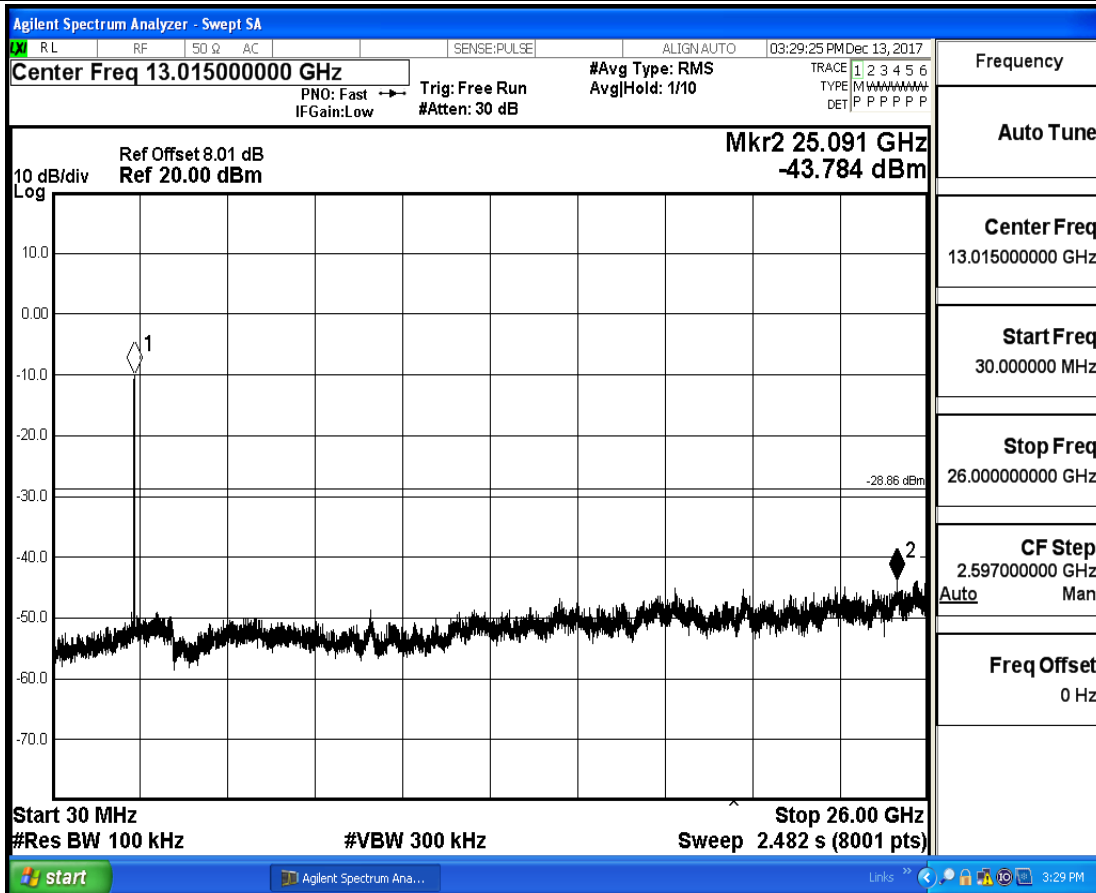
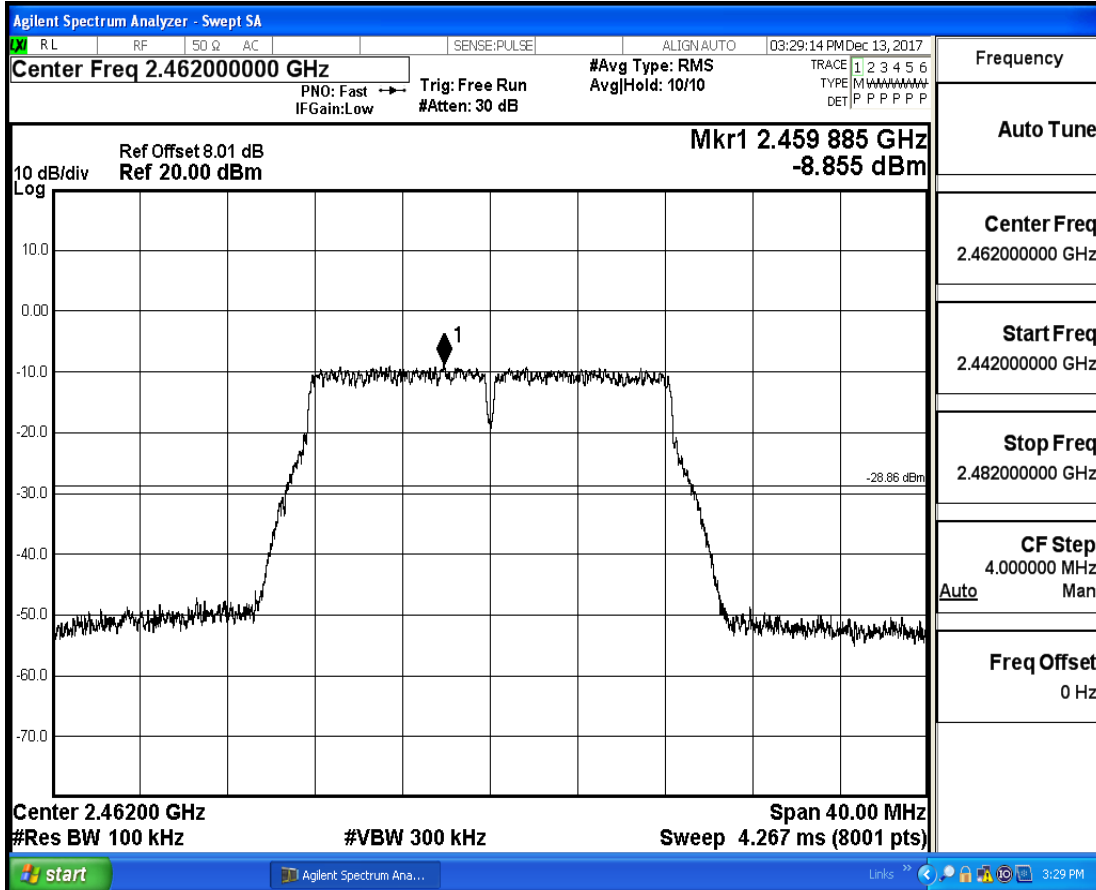


Frequency	
Auto Tune	
Center Freq	13.01500000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.00000000 GHz
CF Step	2.597000000 GHz
Auto	Man
Freq Offset	0 Hz

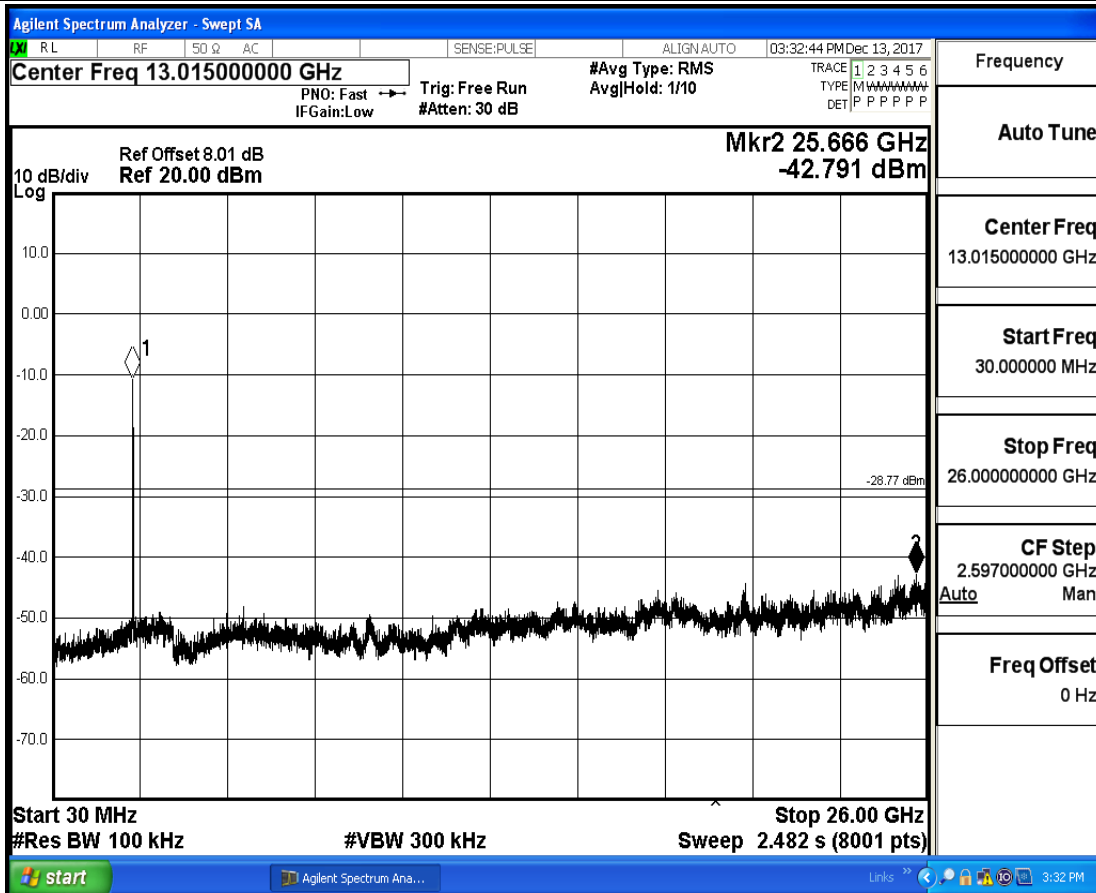
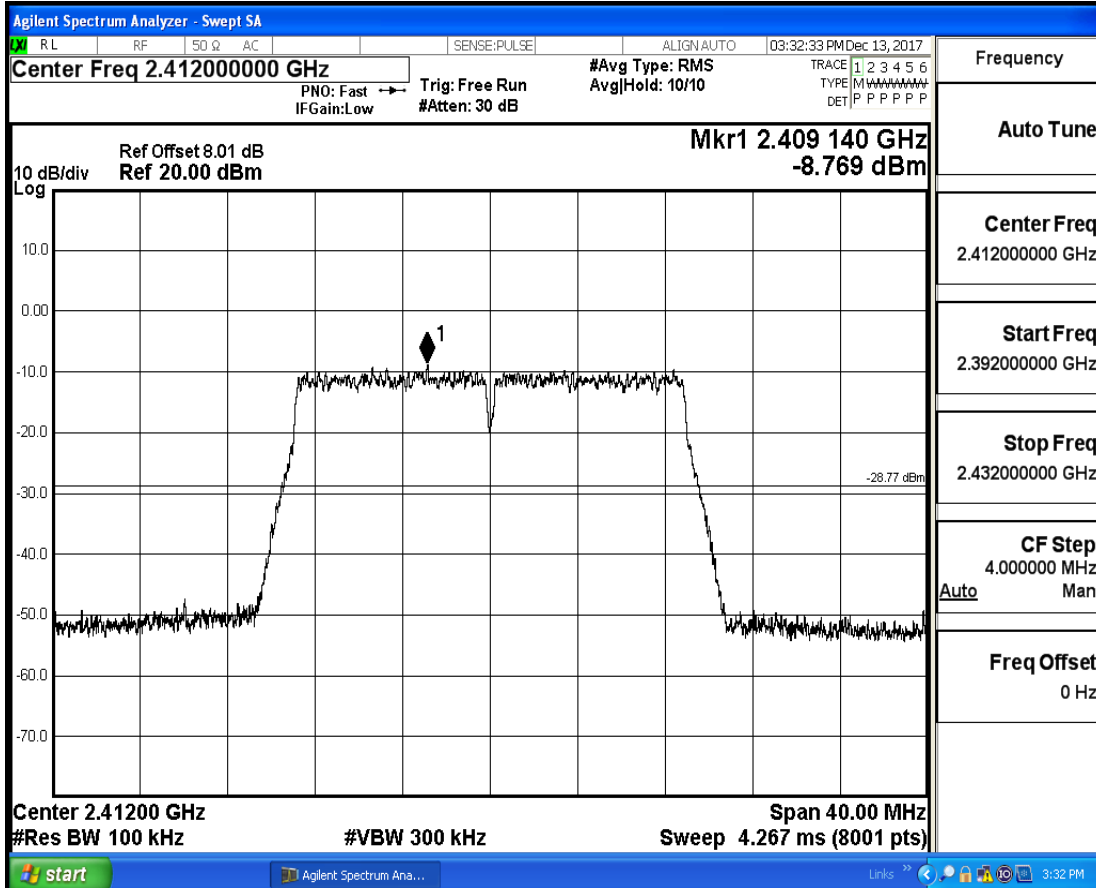
RF Conducted Spurious Emissions_11G_2437_Ant1



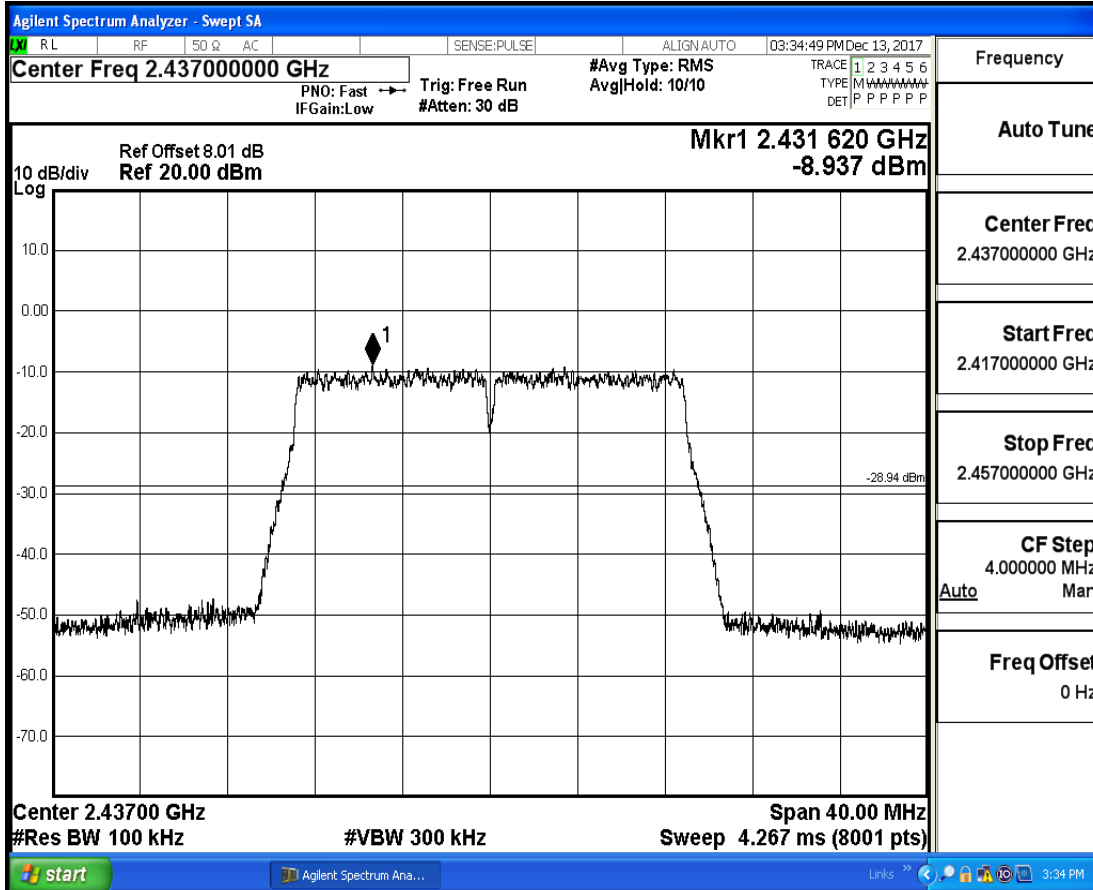
RF Conducted Spurious Emissions_11G_2462_Ant1



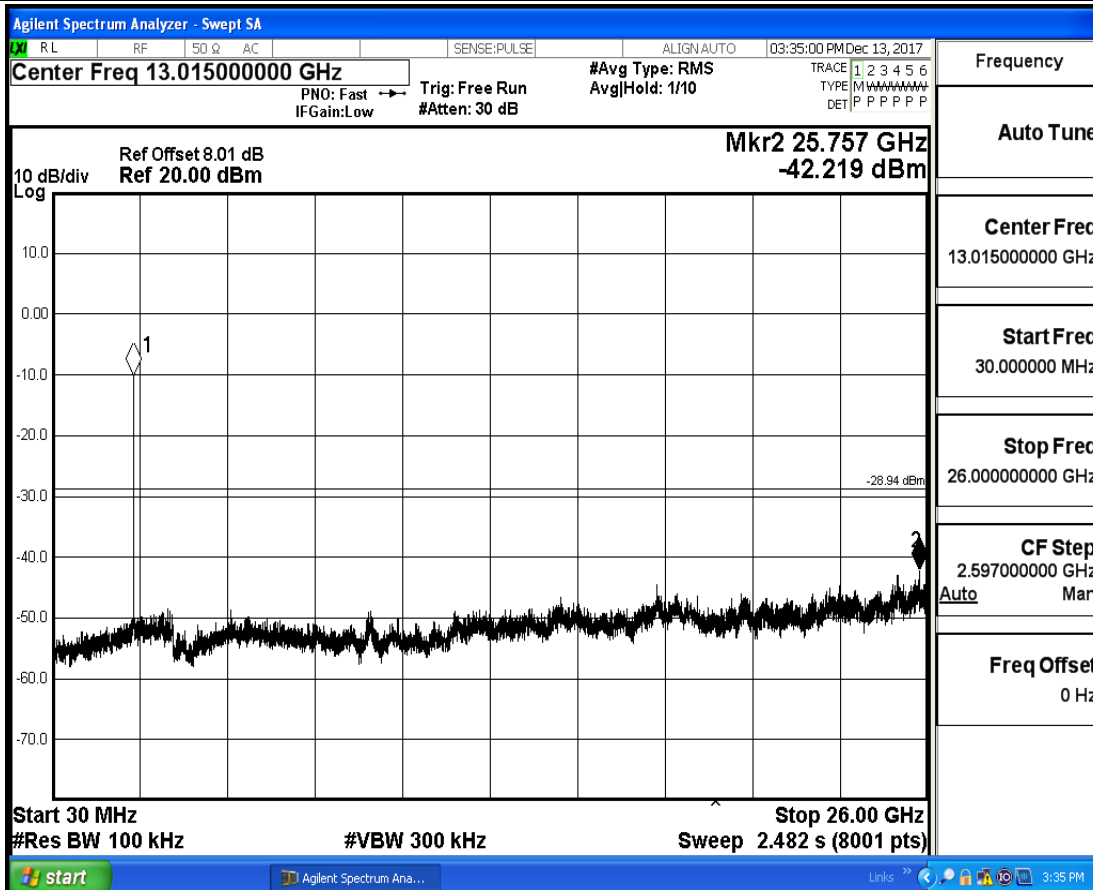
RF Conducted Spurious Emissions_11N20SISO_2412_Ant1



RF Conducted Spurious Emissions_11N20SISO_2437_Ant1

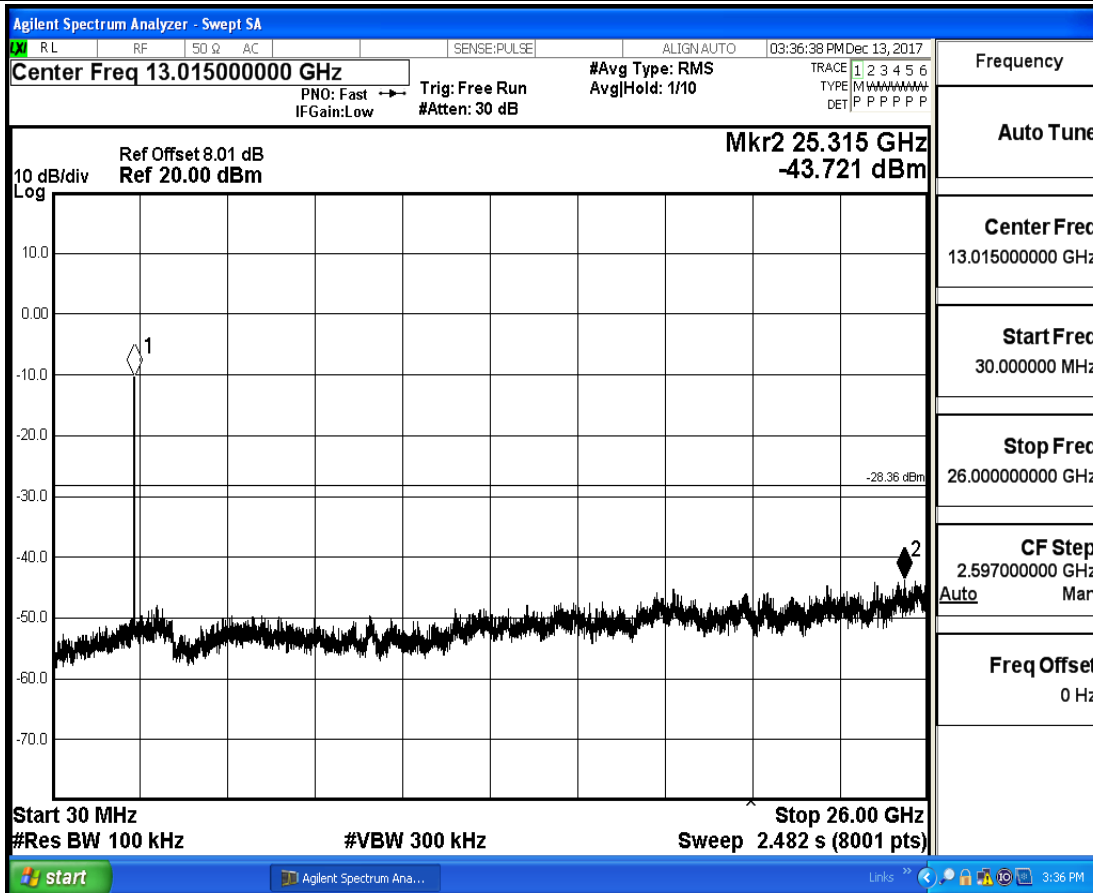
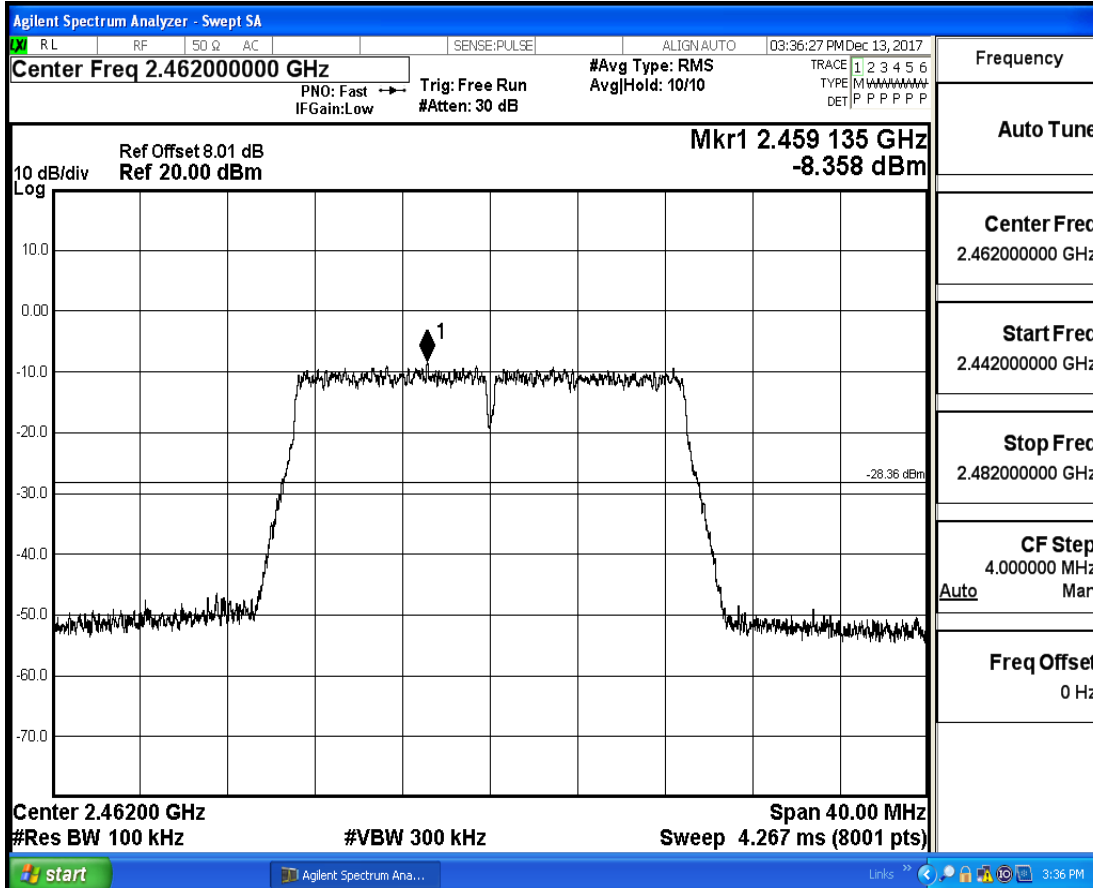


Frequency	
Auto Tune	
Center Freq	2.437000000 GHz
Start Freq	2.417000000 GHz
Stop Freq	2.457000000 GHz
CF Step	4.000000 MHz
Auto	Man
Freq Offset	0 Hz

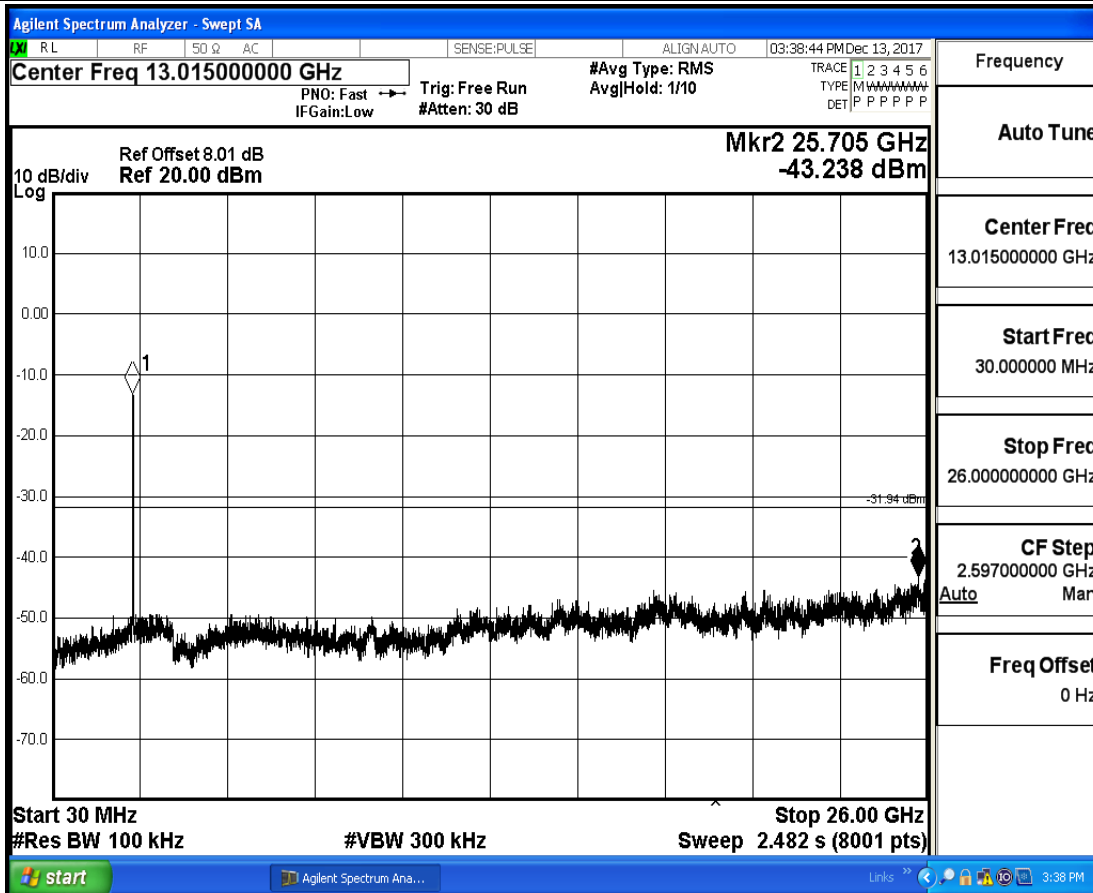
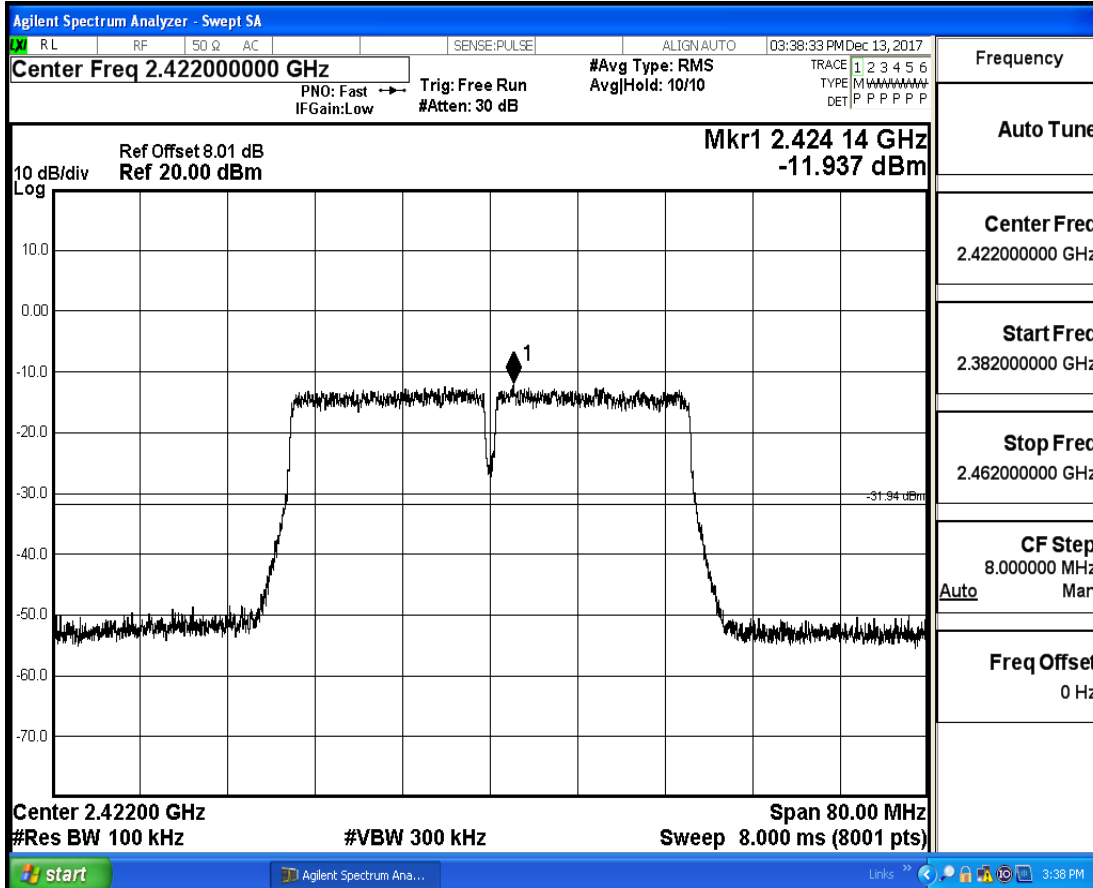


Frequency	
Auto Tune	
Center Freq	13.015000000 GHz
Start Freq	30.000000 MHz
Stop Freq	26.000000000 GHz
CF Step	2.597000000 GHz
Auto	Man
Freq Offset	0 Hz

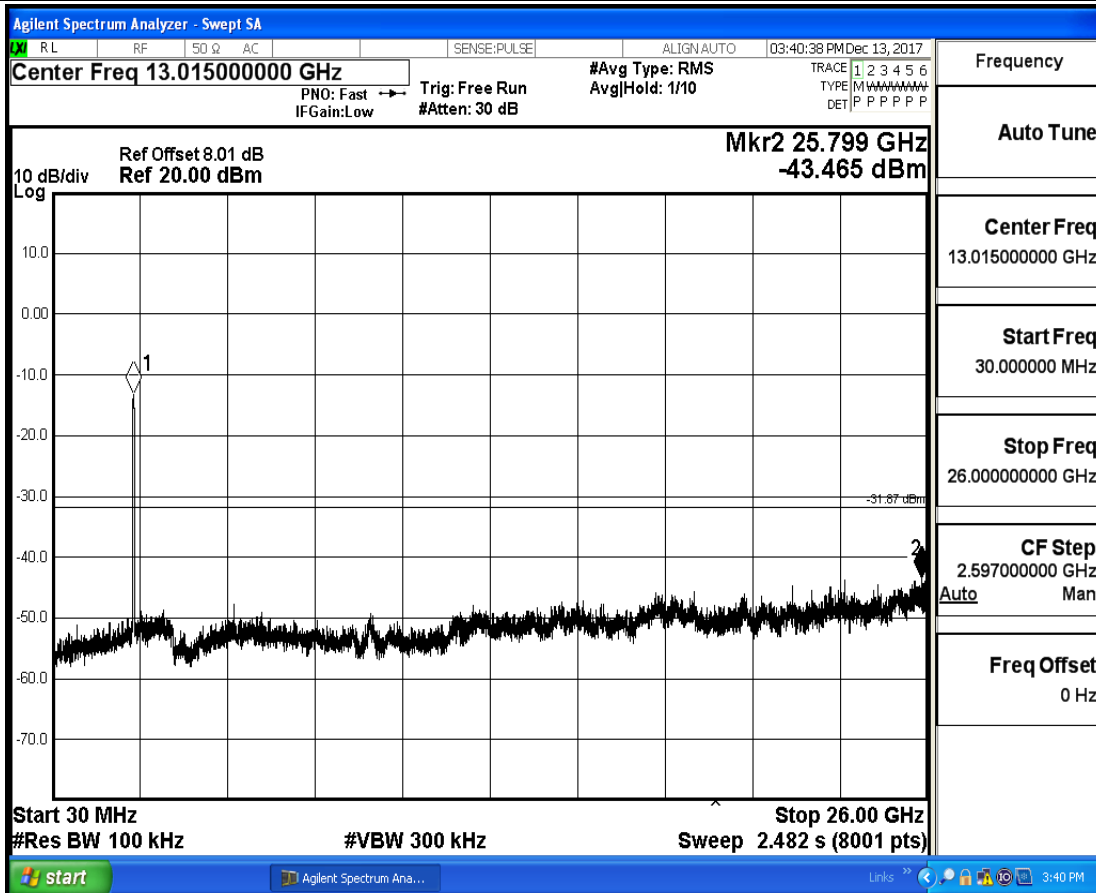
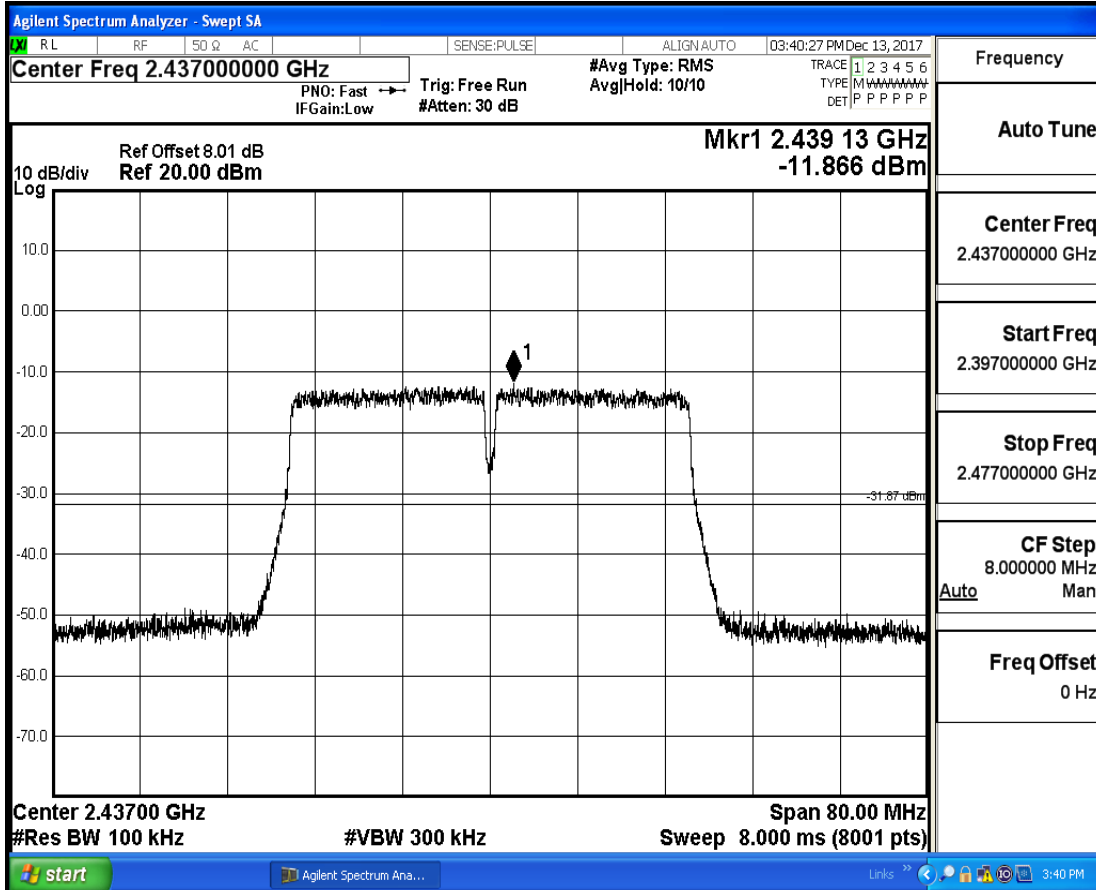
RF Conducted Spurious Emissions_11N20SISO_2462_Ant1



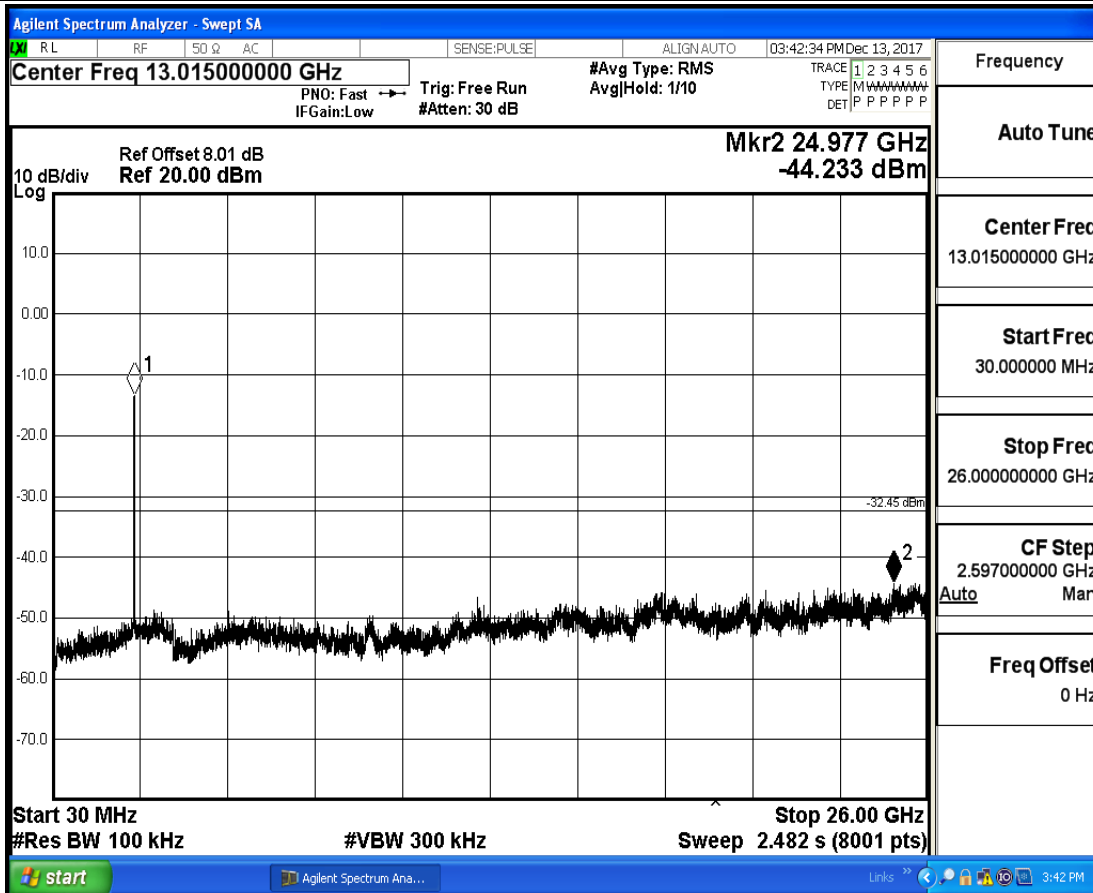
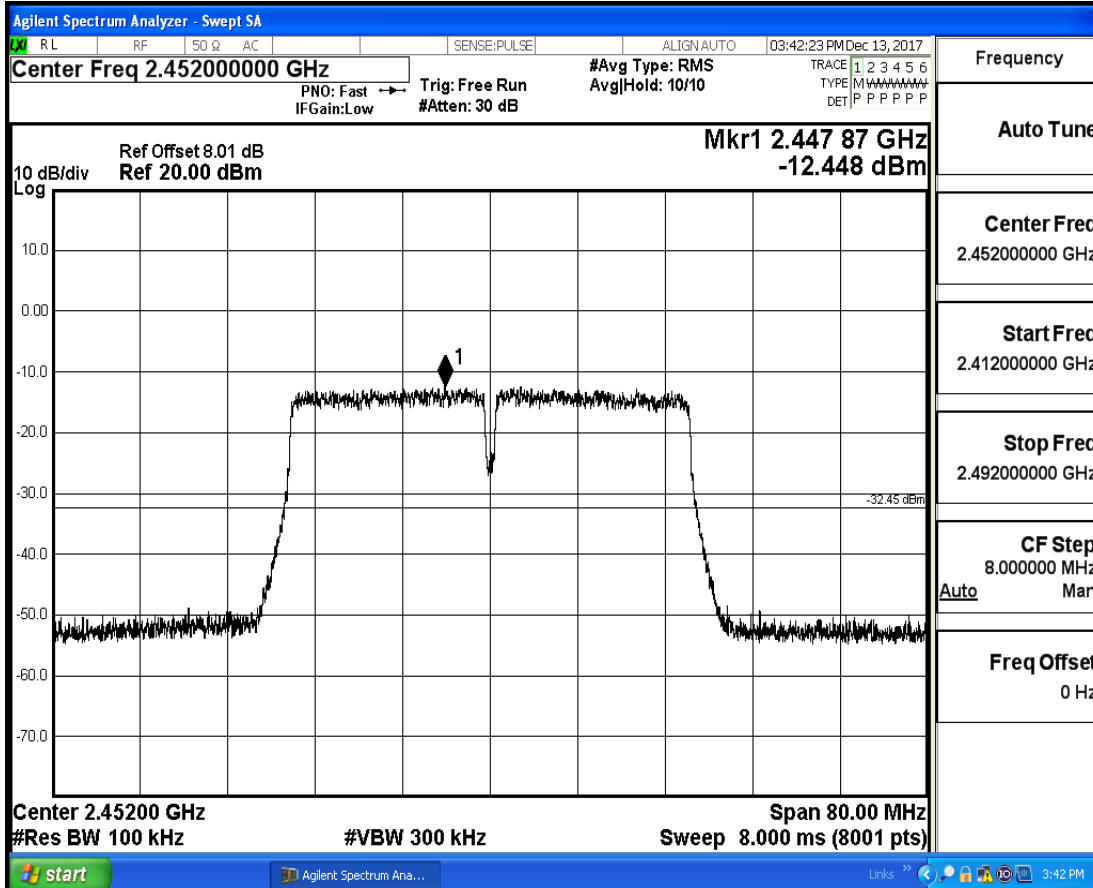
RF Conducted Spurious Emissions_11N40SISO_2422_Ant1



RF Conducted Spurious Emissions_11N40SISO_2437_Ant1



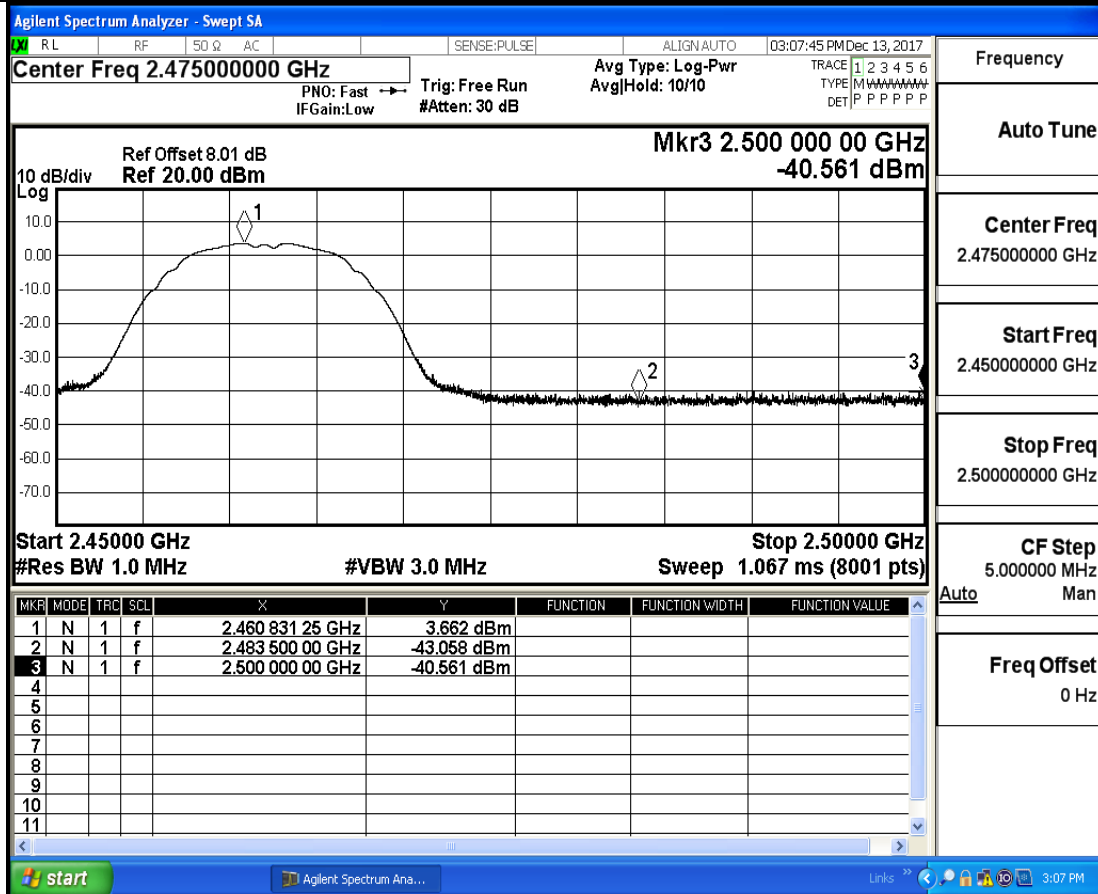
RF Conducted Spurious Emissions_11N40SISO_2452_Ant1



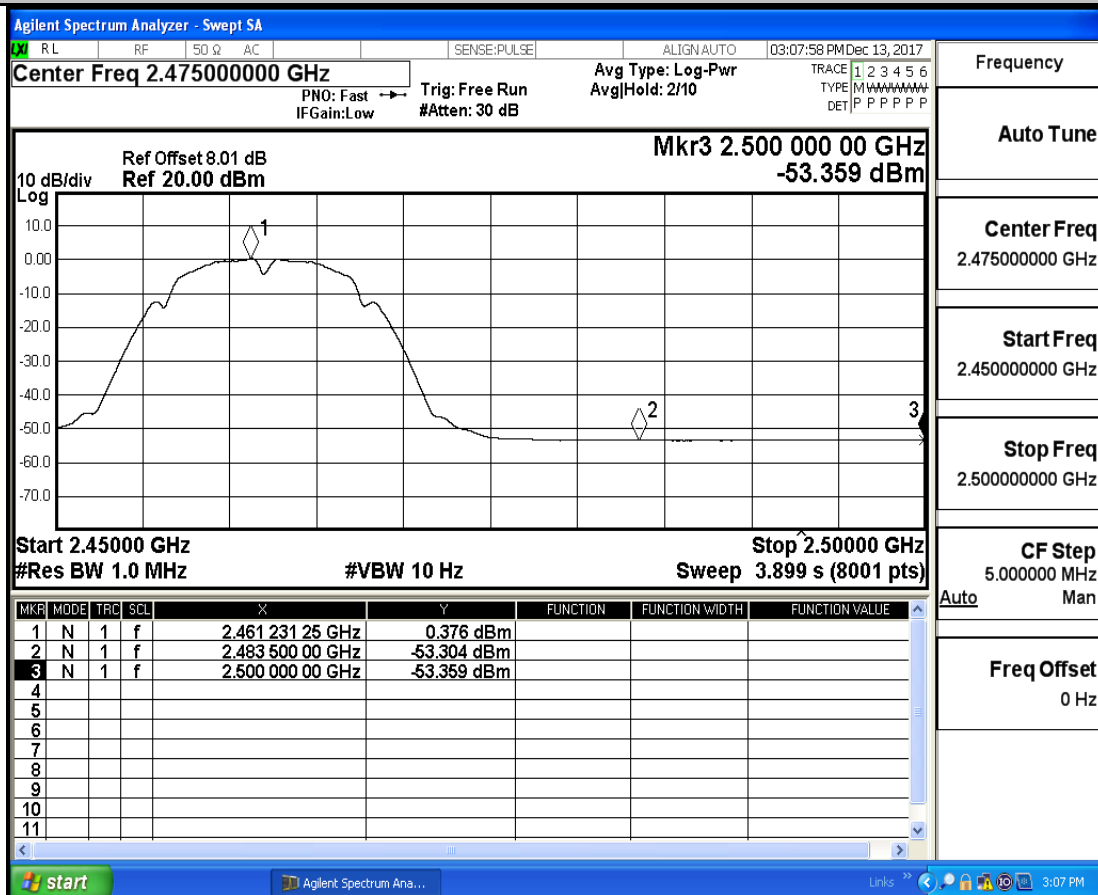
A.6 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.28	2	0	53.98	PEAK	74	PASS
11B	2412	Ant1	2310.0	-54.14	2	0	43.12	AV	54	PASS
11B	2412	Ant1	2390.0	-43.57	2	0	53.69	PEAK	74	PASS
11B	2412	Ant1	2390.0	-53.45	2	0	43.81	AV	54	PASS
11B	2462	Ant1	2483.5	-43.06	2	0	54.20	PEAK	74	PASS
11B	2462	Ant1	2483.5	-53.30	2	0	43.96	AV	54	PASS
11B	2462	Ant1	2500.0	-40.56	2	0	56.70	PEAK	74	PASS
11B	2462	Ant1	2500.0	-53.36	2	0	43.90	AV	54	PASS
11G	2412	Ant1	2310.0	-43.15	2	0	54.11	PEAK	74	PASS
11G	2412	Ant1	2310.0	-54.11	2	0	43.15	AV	54	PASS
11G	2412	Ant1	2390.0	-41.91	2	0	55.35	PEAK	74	PASS
11G	2412	Ant1	2390.0	-52.82	2	0	44.44	AV	54	PASS
11G	2462	Ant1	2483.5	-43.03	2	0	54.23	PEAK	74	PASS
11G	2462	Ant1	2483.5	-53.01	2	0	44.25	AV	54	PASS
11G	2462	Ant1	2500.0	-42.53	2	0	54.73	PEAK	74	PASS
11G	2462	Ant1	2500.0	-53.07	2	0	44.19	AV	54	PASS
11N20SISO	2412	Ant1	2310.0	-44.07	2	0	53.19	PEAK	74	PASS
11N20SISO	2412	Ant1	2310.0	-54.08	2	0	43.18	AV	54	PASS
11N20SISO	2412	Ant1	2390.0	-41.50	2	0	55.76	PEAK	74	PASS
11N20SISO	2412	Ant1	2390.0	-52.65	2	0	44.61	AV	54	PASS
11N20SISO	2462	Ant1	2483.5	-41.64	2	0	55.62	PEAK	74	PASS
11N20SISO	2462	Ant1	2483.5	-52.97	2	0	44.29	AV	54	PASS
11N20SISO	2462	Ant1	2500.0	-43.21	2	0	54.05	PEAK	74	PASS
11N20SISO	2462	Ant1	2500.0	-53.09	2	0	44.17	AV	54	PASS
11N40SISO	2422	Ant1	2310.0	-43.40	2	0	53.86	PEAK	74	PASS
11N40SISO	2422	Ant1	2310.0	-54.08	2	0	43.18	AV	54	PASS
11N40SISO	2422	Ant1	2390.0	-41.71	2	0	55.55	PEAK	74	PASS
11N40SISO	2422	Ant1	2390.0	-52.41	2	0	44.85	AV	54	PASS
11N40SISO	2452	Ant1	2483.5	-41.47	2	0	55.79	PEAK	74	PASS
11N40SISO	2452	Ant1	2483.5	-52.87	2	0	44.39	AV	54	PASS
11N40SISO	2452	Ant1	2500.0	-41.79	2	0	55.47	PEAK	74	PASS
11N40SISO	2452	Ant1	2500.0	-53.07	2	0	44.19	AV	54	PASS

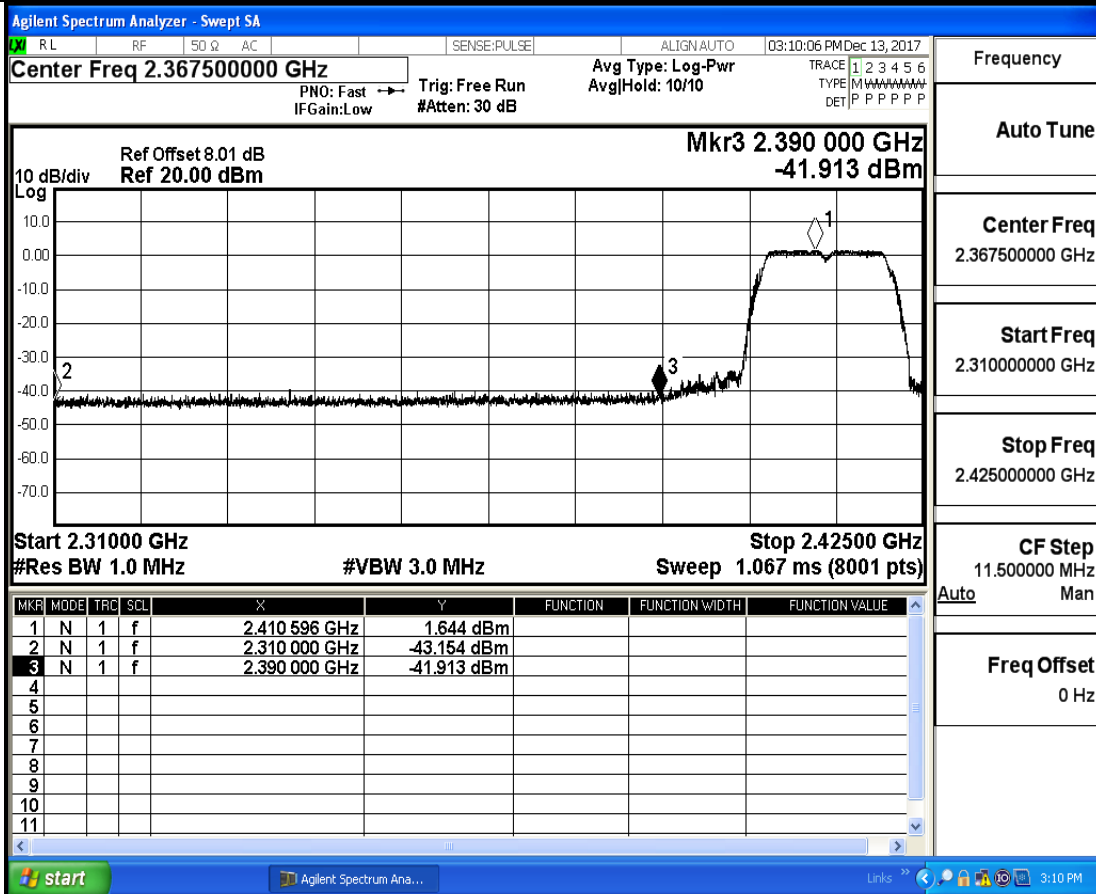
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



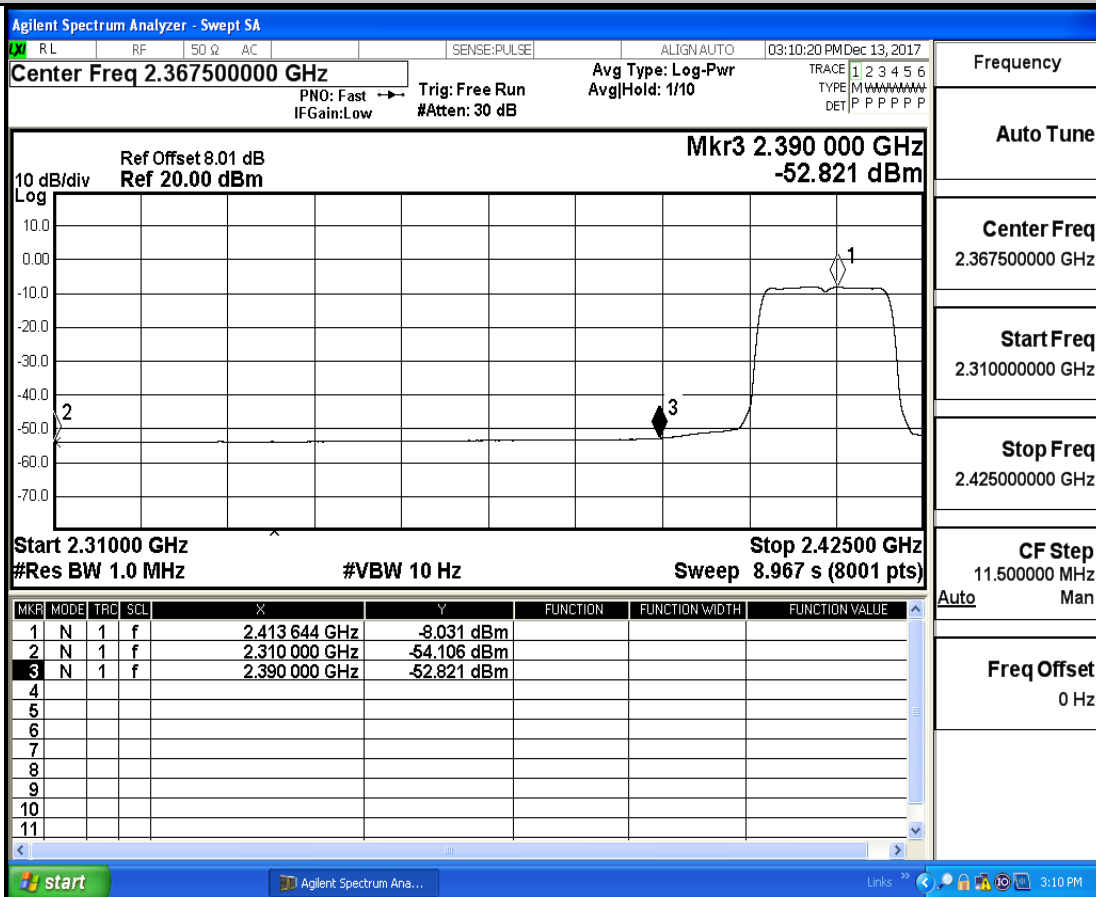
Restrict-band band-edge measurements_11B_2462_Ant1_AV



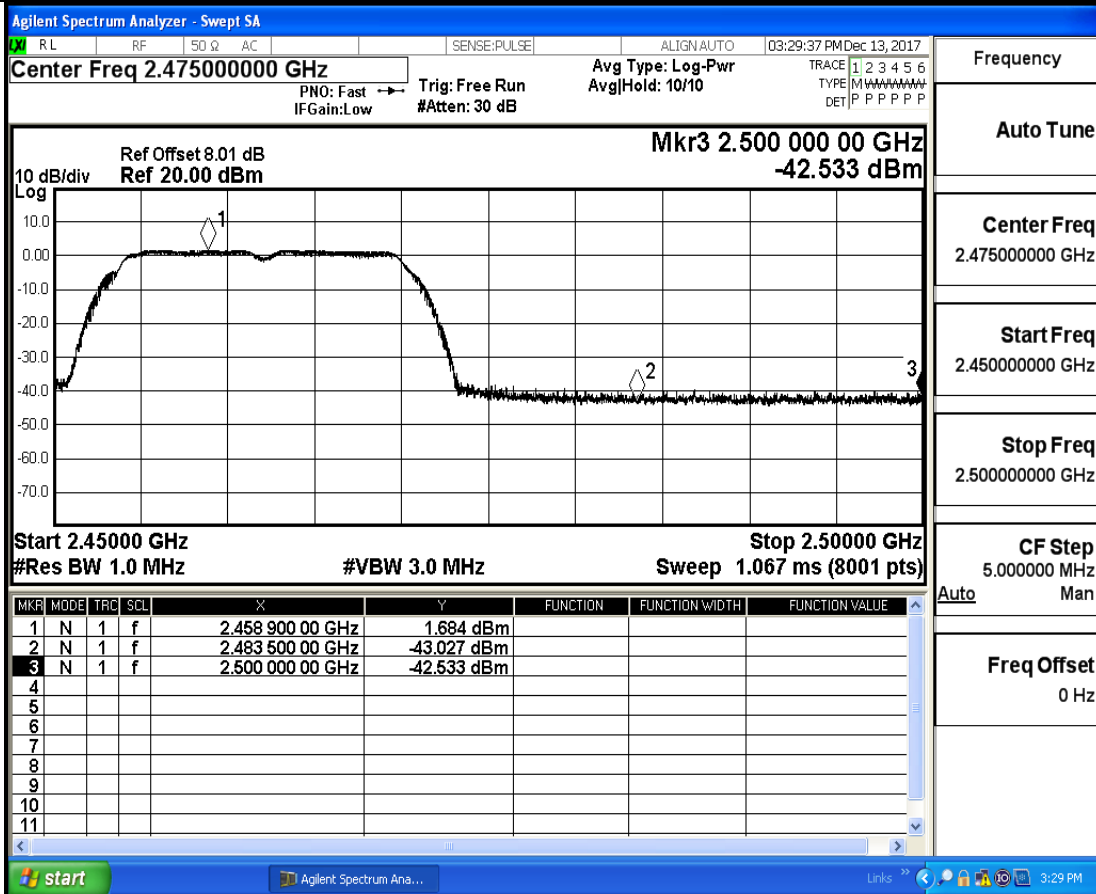
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



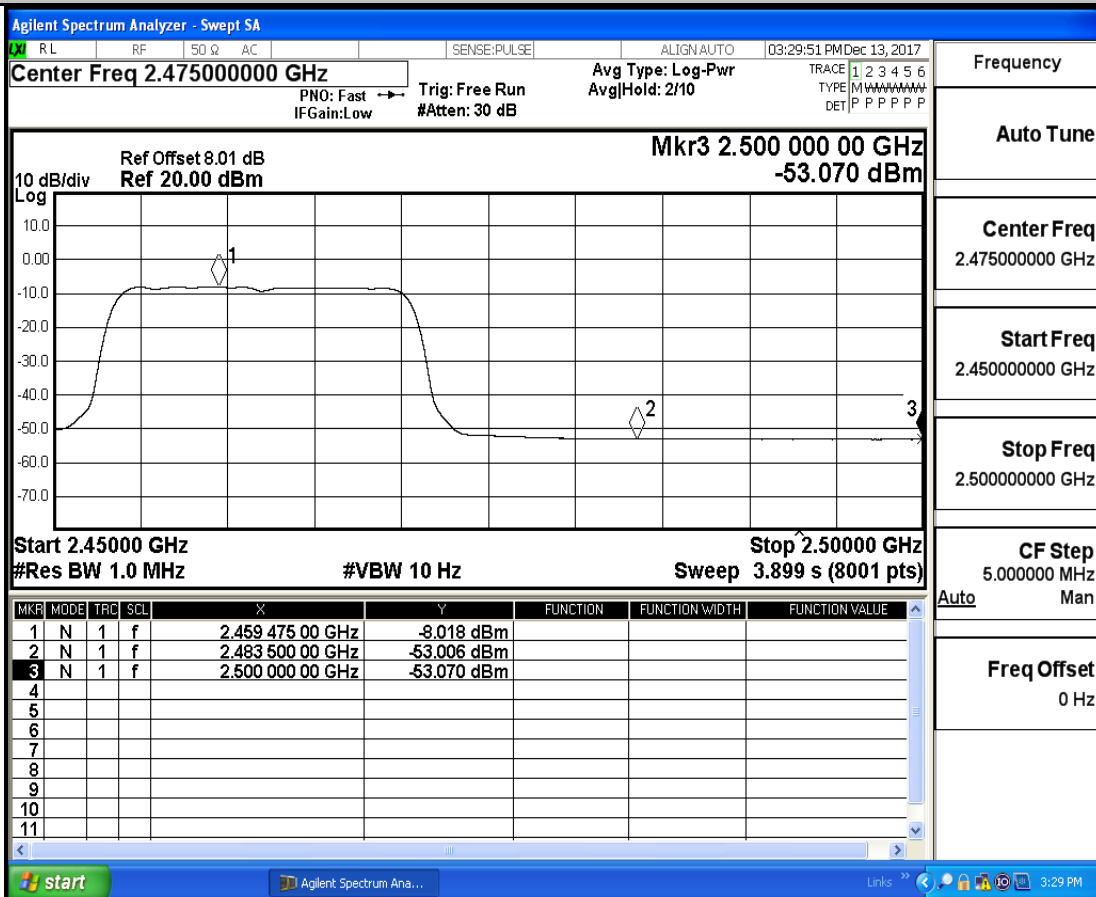
Restrict-band band-edge measurements_11G_2412_Ant1_AV



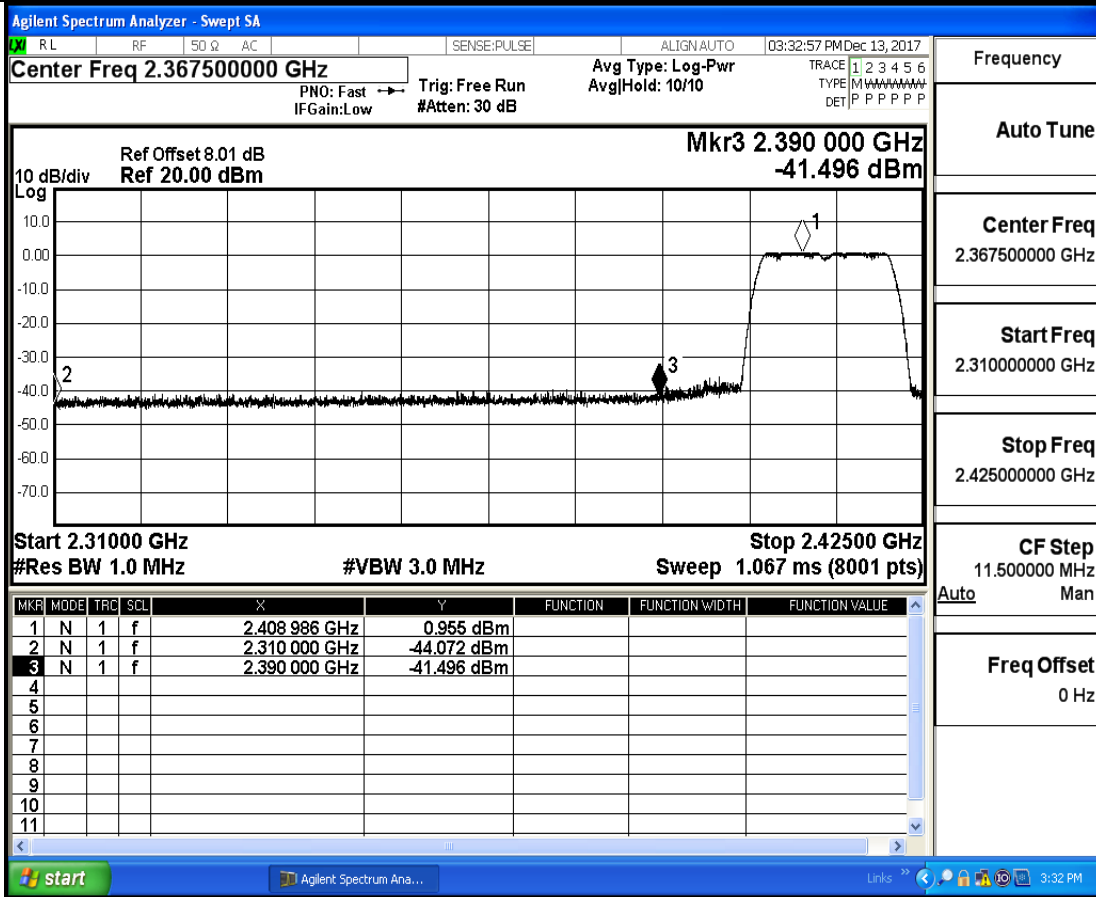
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



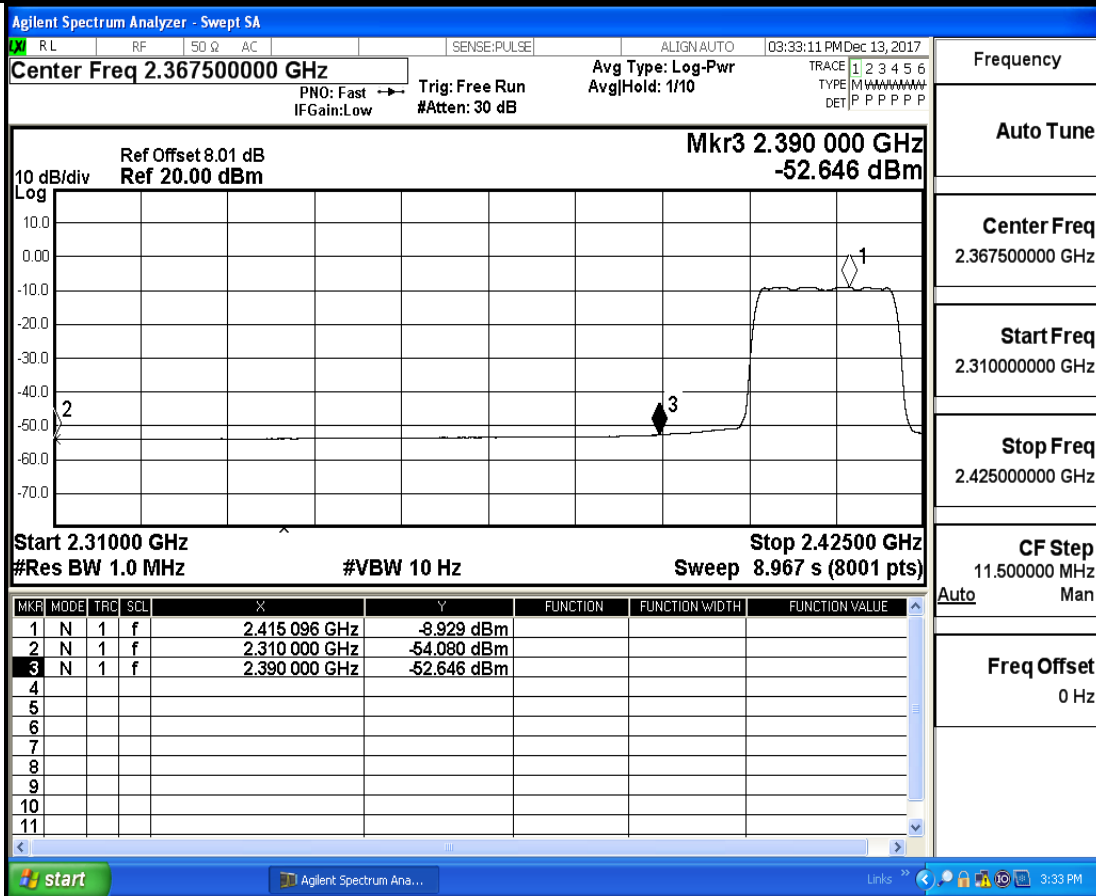
Restrict-band band-edge measurements_11G_2462_Ant1_AV



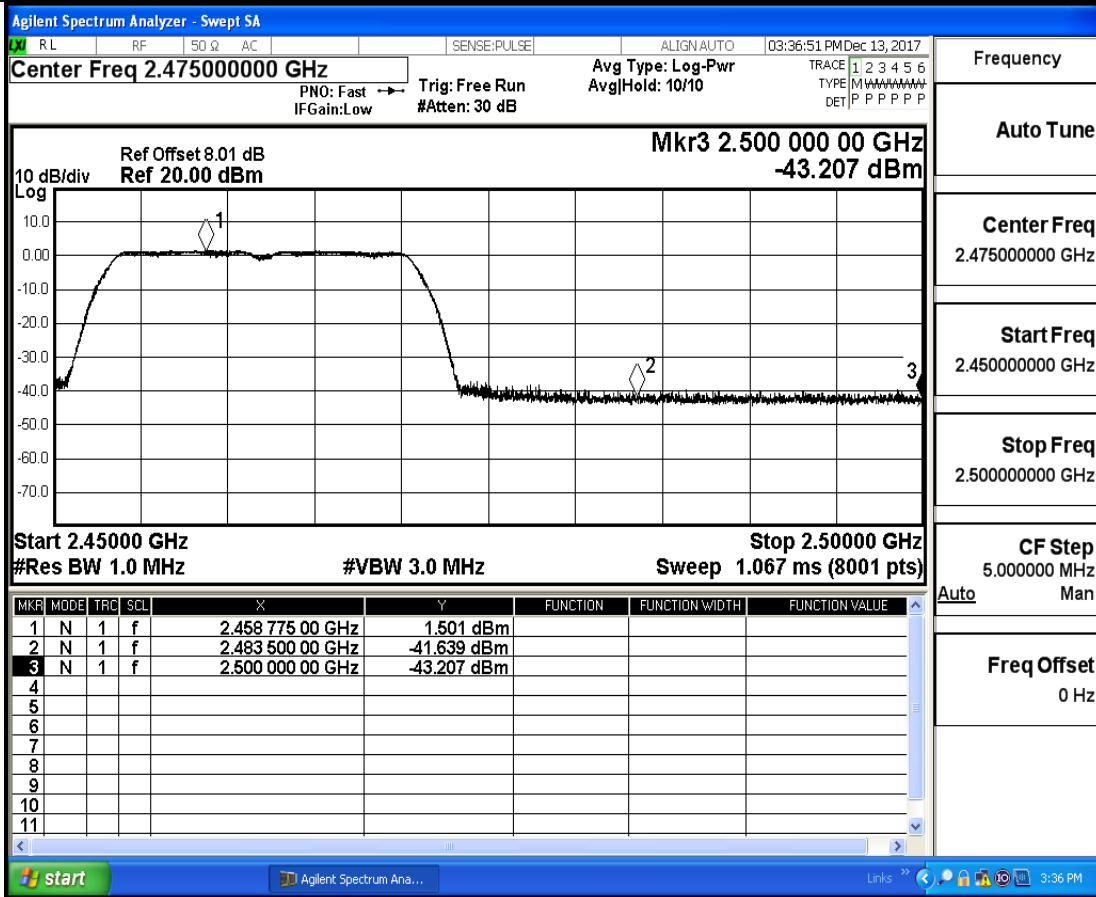
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



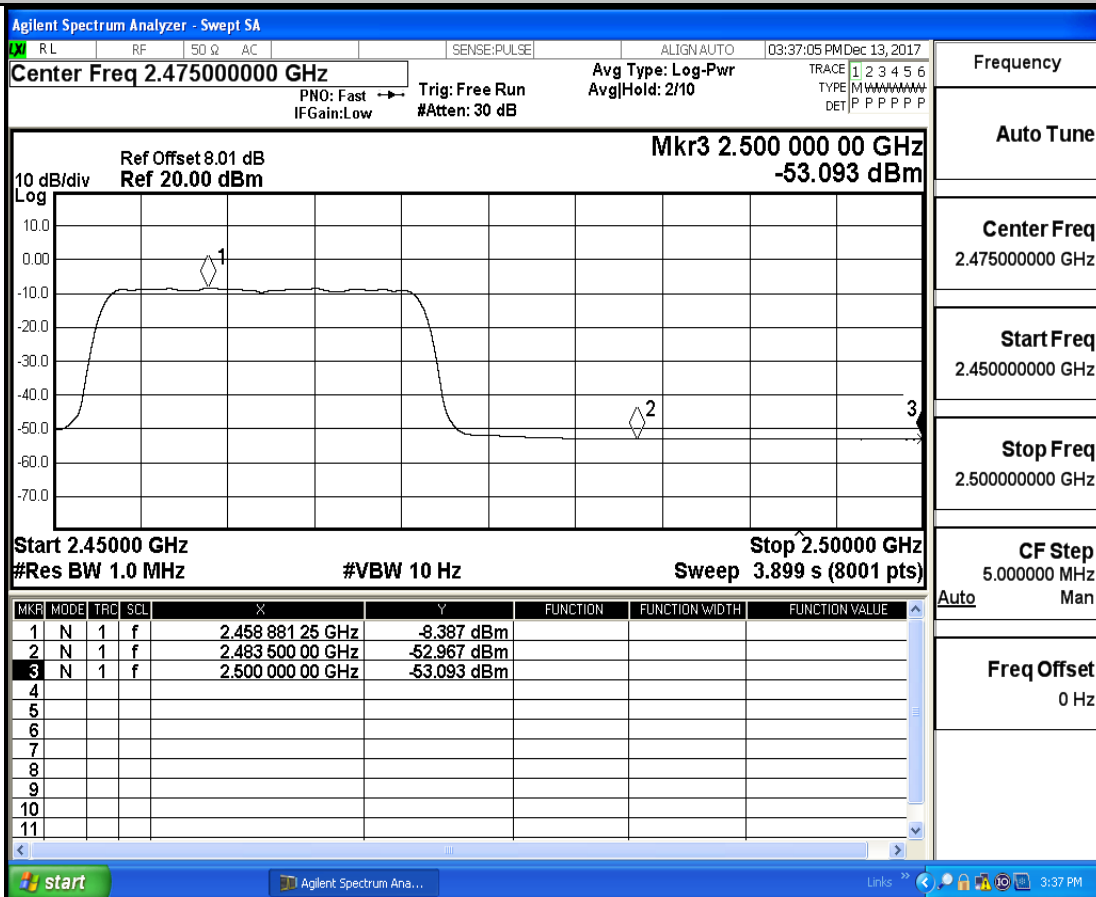
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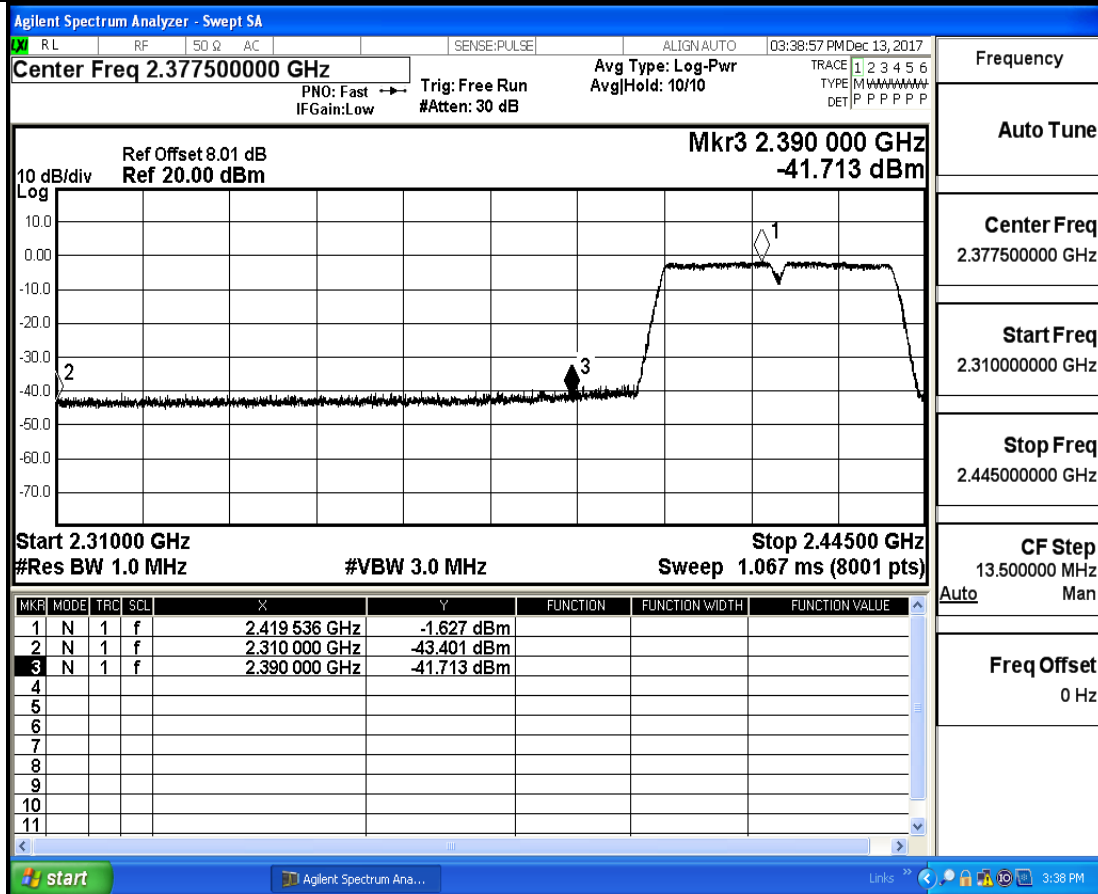
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



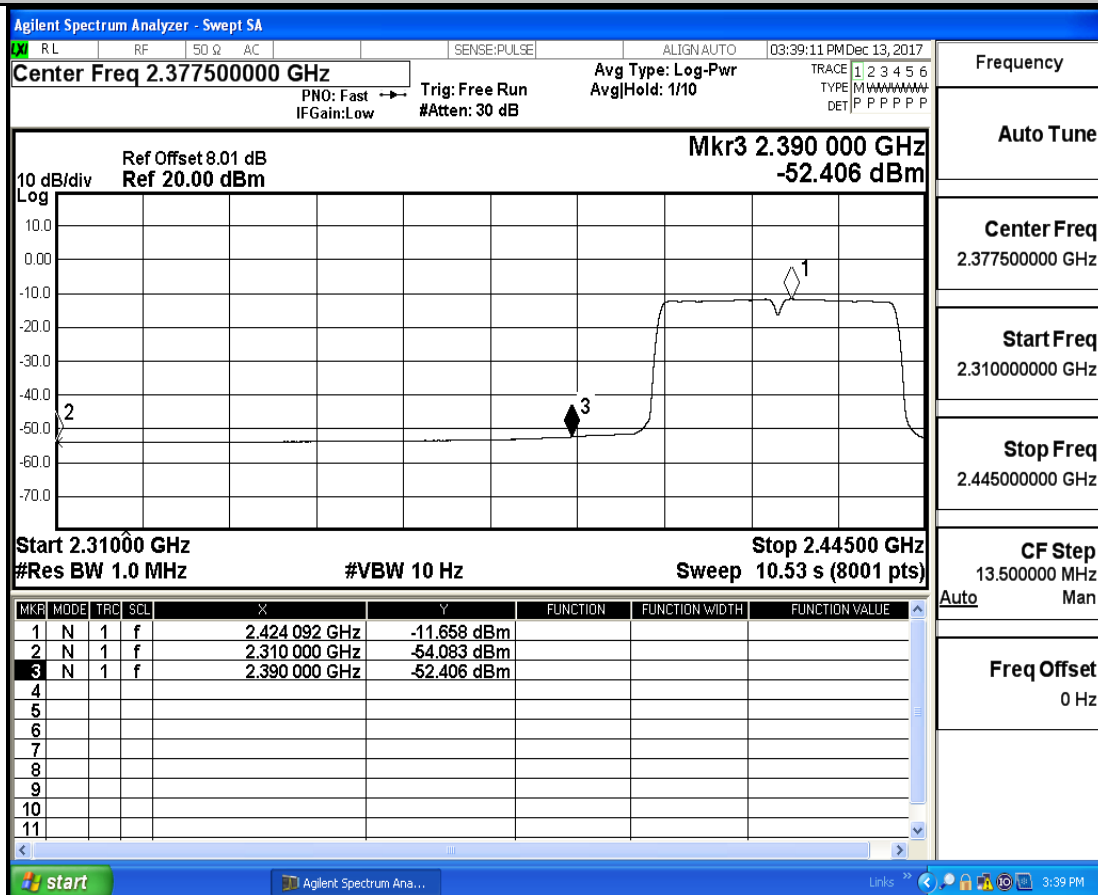
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



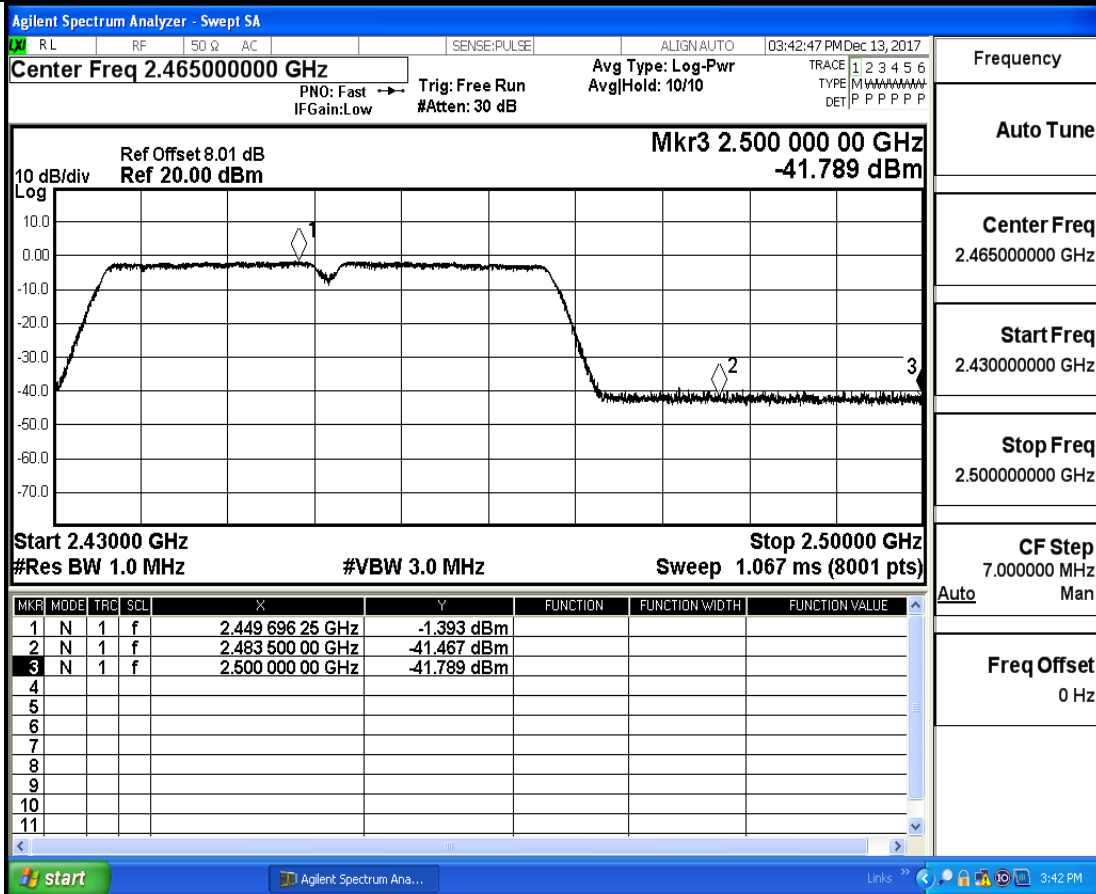
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



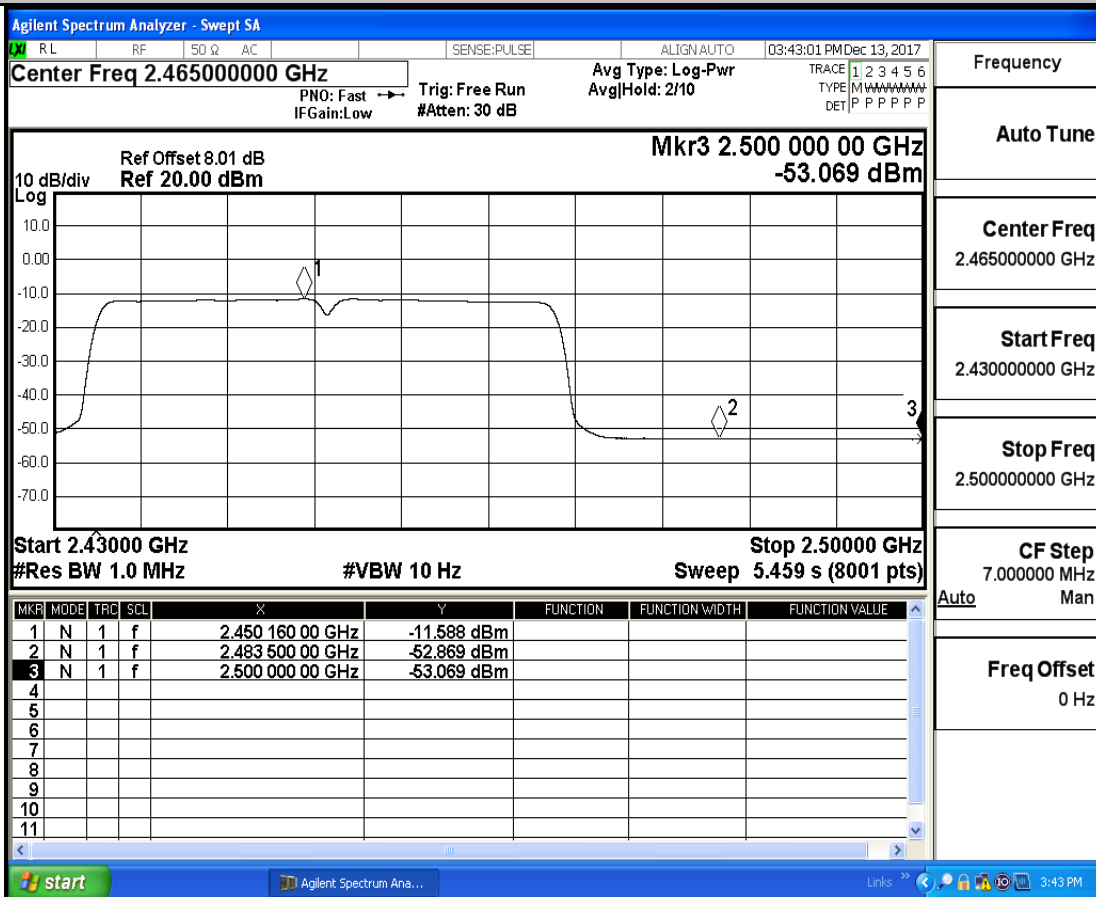
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



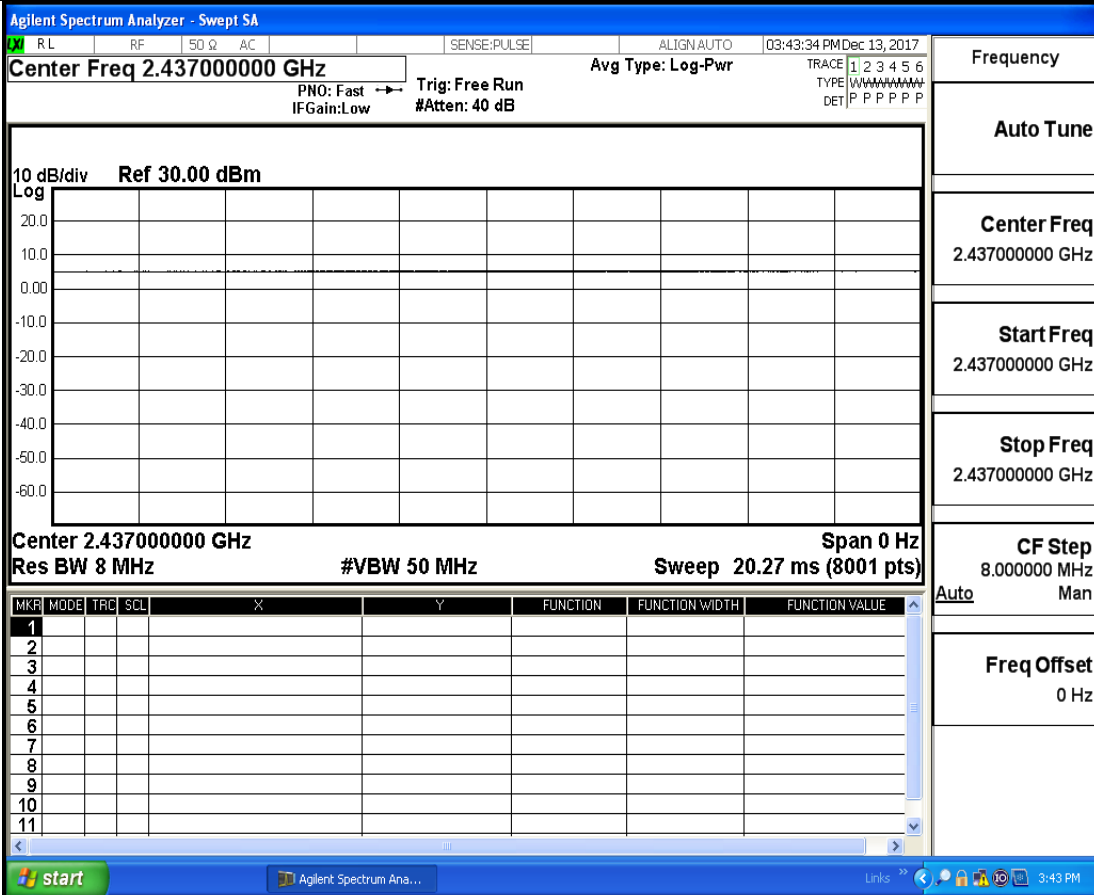
Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



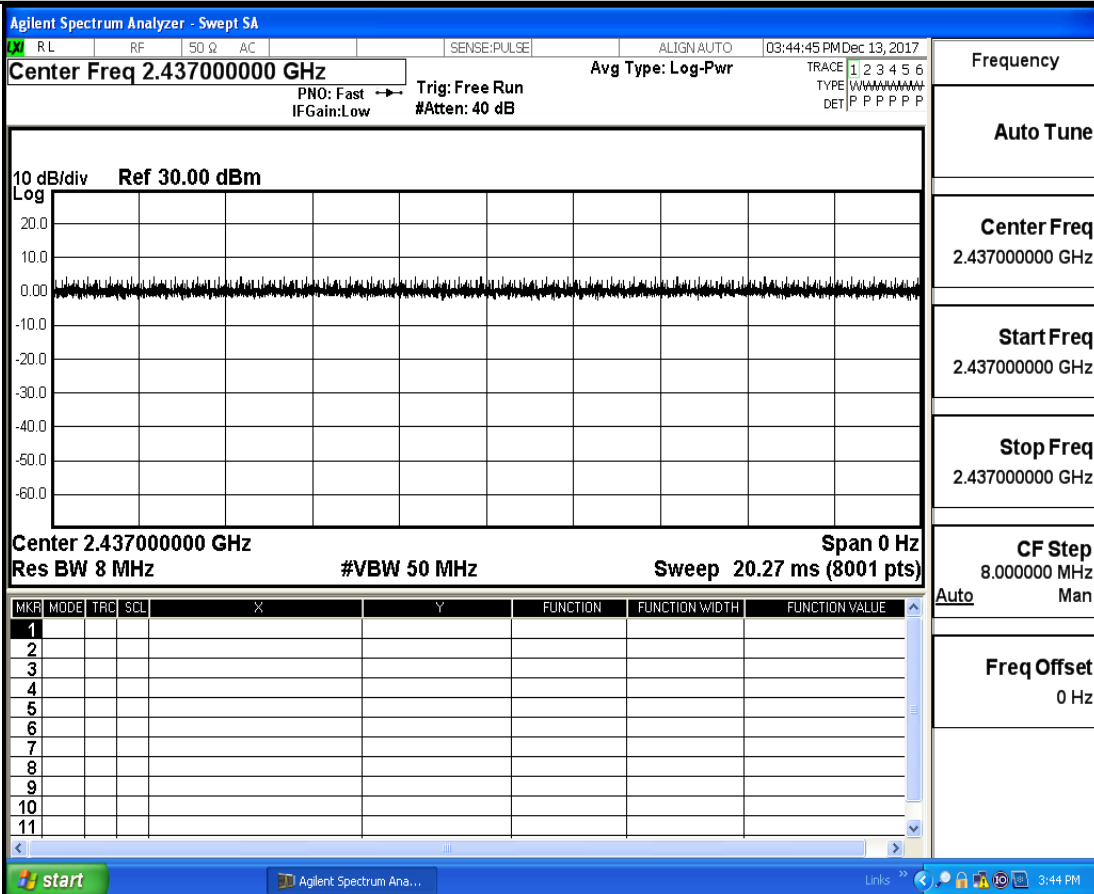
A.7 Duty Cycle

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

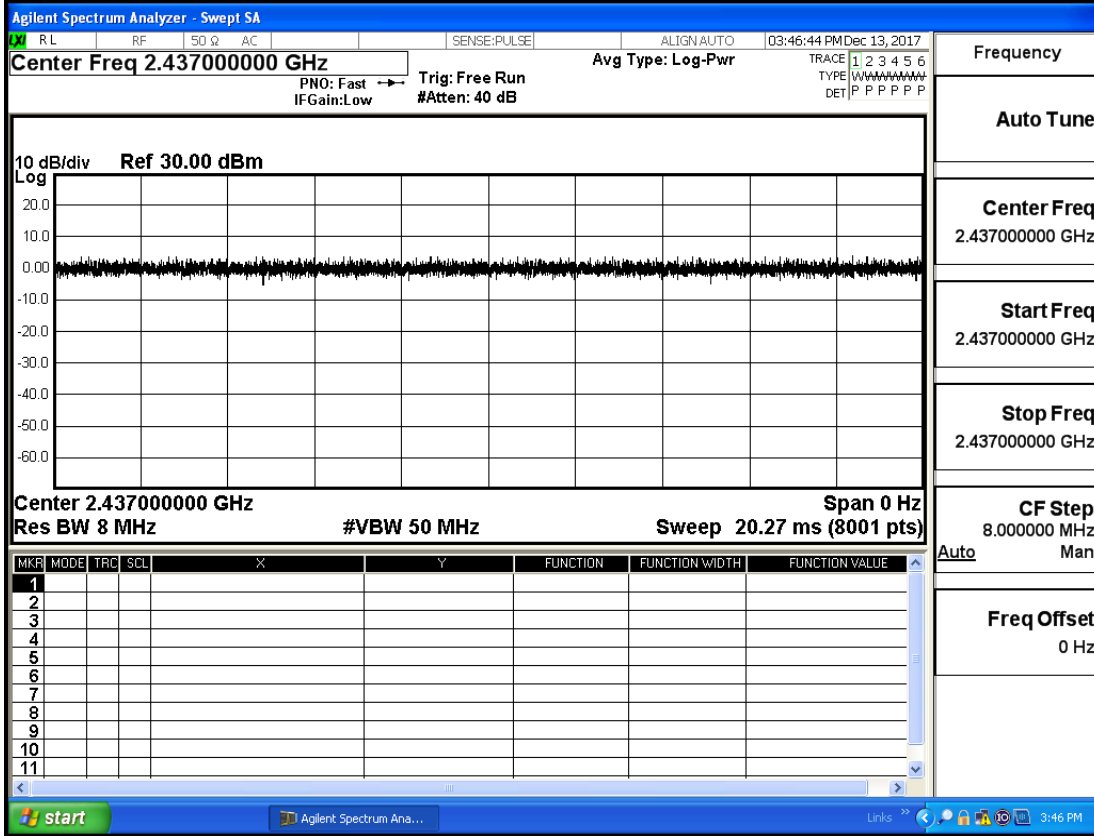
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

