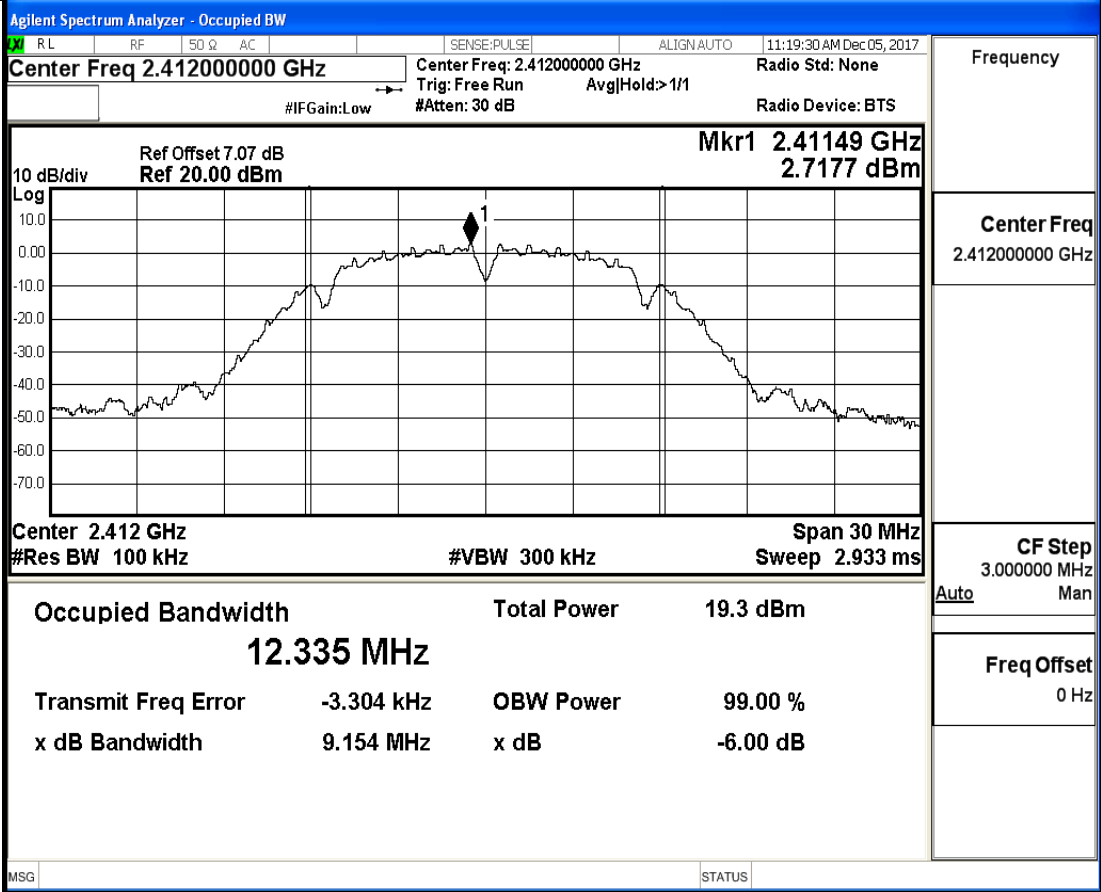


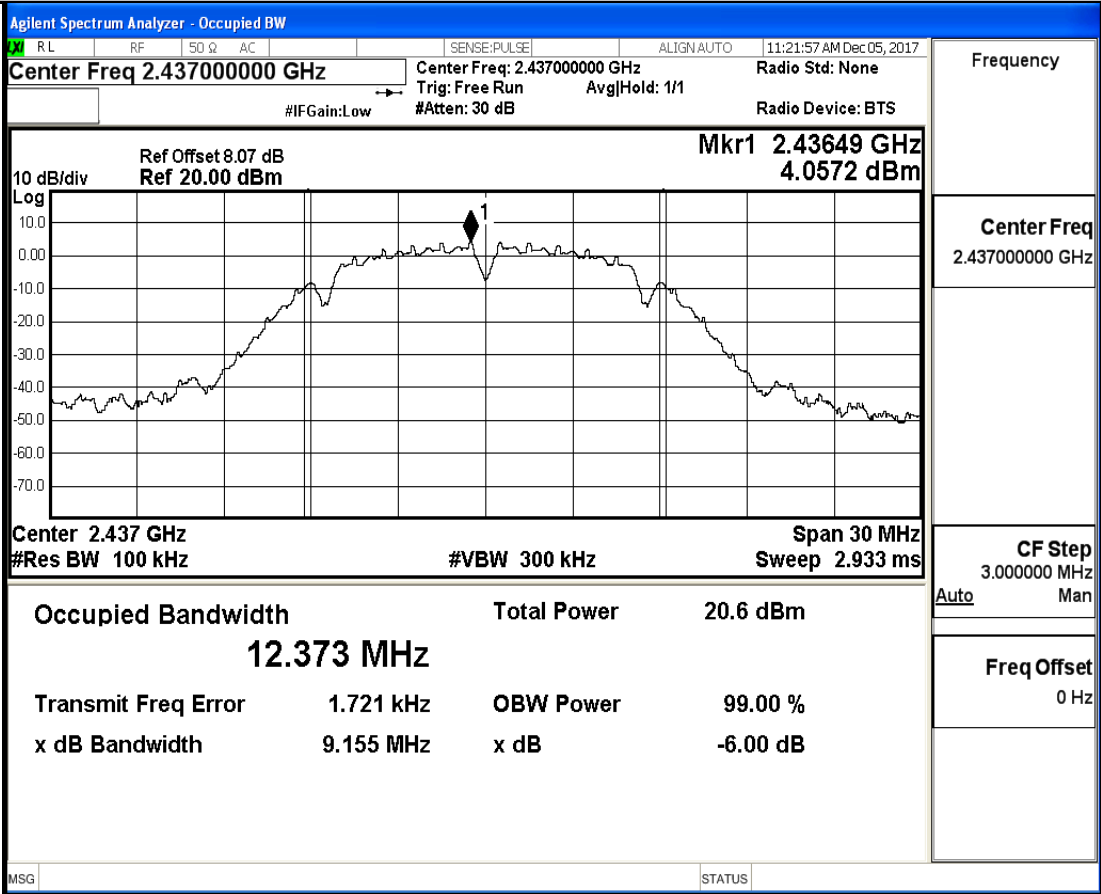
1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	9.154	0.5	PASS
11B	2437	Ant1	9.155	0.5	PASS
11B	2462	Ant1	9.155	0.5	PASS
11G	2412	Ant1	16.62	0.5	PASS
11G	2437	Ant1	16.61	0.5	PASS
11G	2462	Ant1	16.62	0.5	PASS
11N20SISO	2412	Ant1	17.84	0.5	PASS
11N20SISO	2437	Ant1	17.85	0.5	PASS
11N20SISO	2462	Ant1	17.83	0.5	PASS
11N40SISO	2422	Ant1	36.50	0.5	PASS
11N40SISO	2437	Ant1	36.52	0.5	PASS
11N40SISO	2452	Ant1	36.49	0.5	PASS

6dB Bandwidth_11B_2412_Ant1



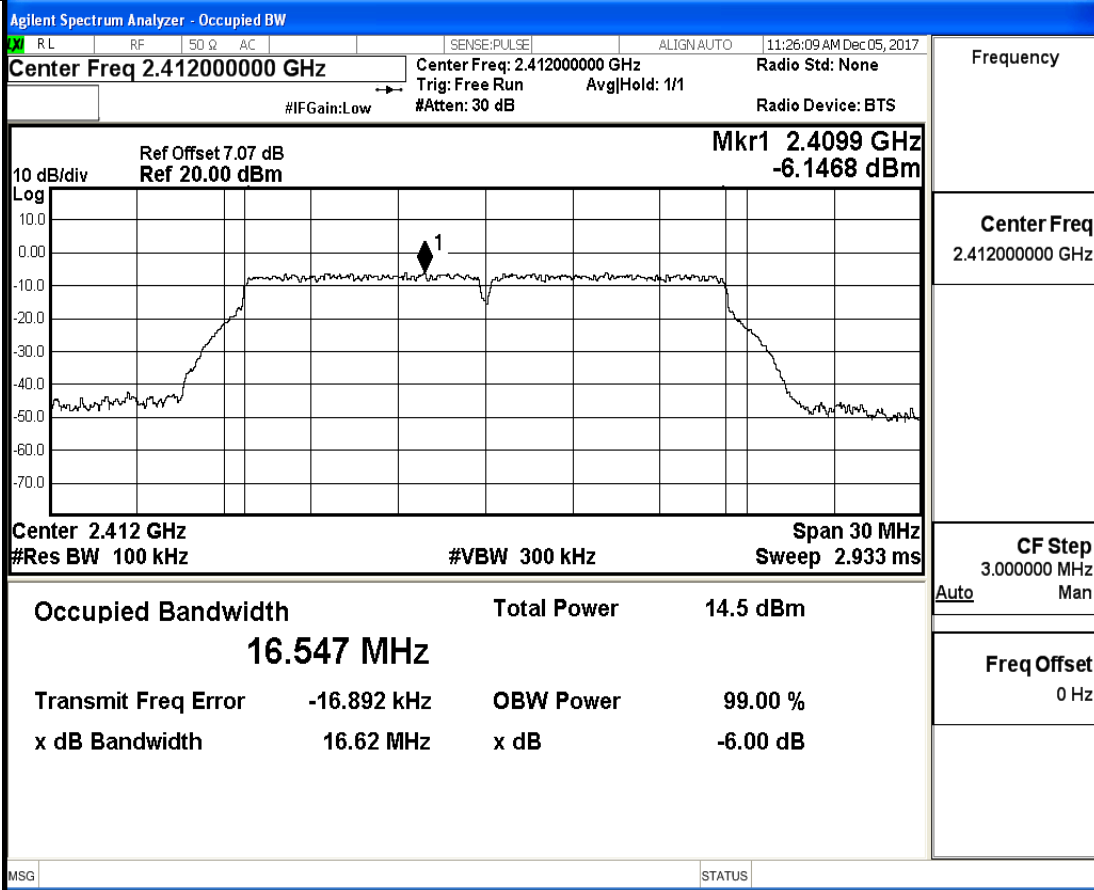
6dB Bandwidth_11B_2437_Ant1



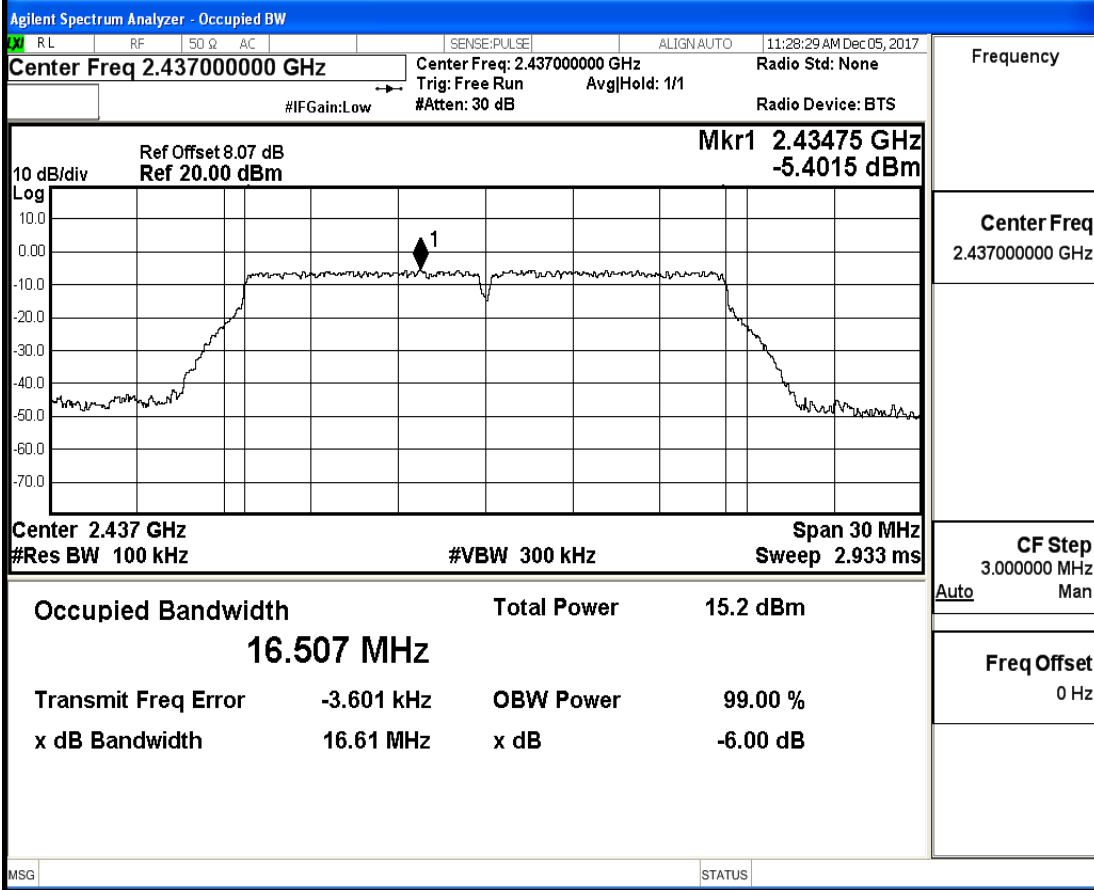
6dB Bandwidth_11B_2462_Ant1



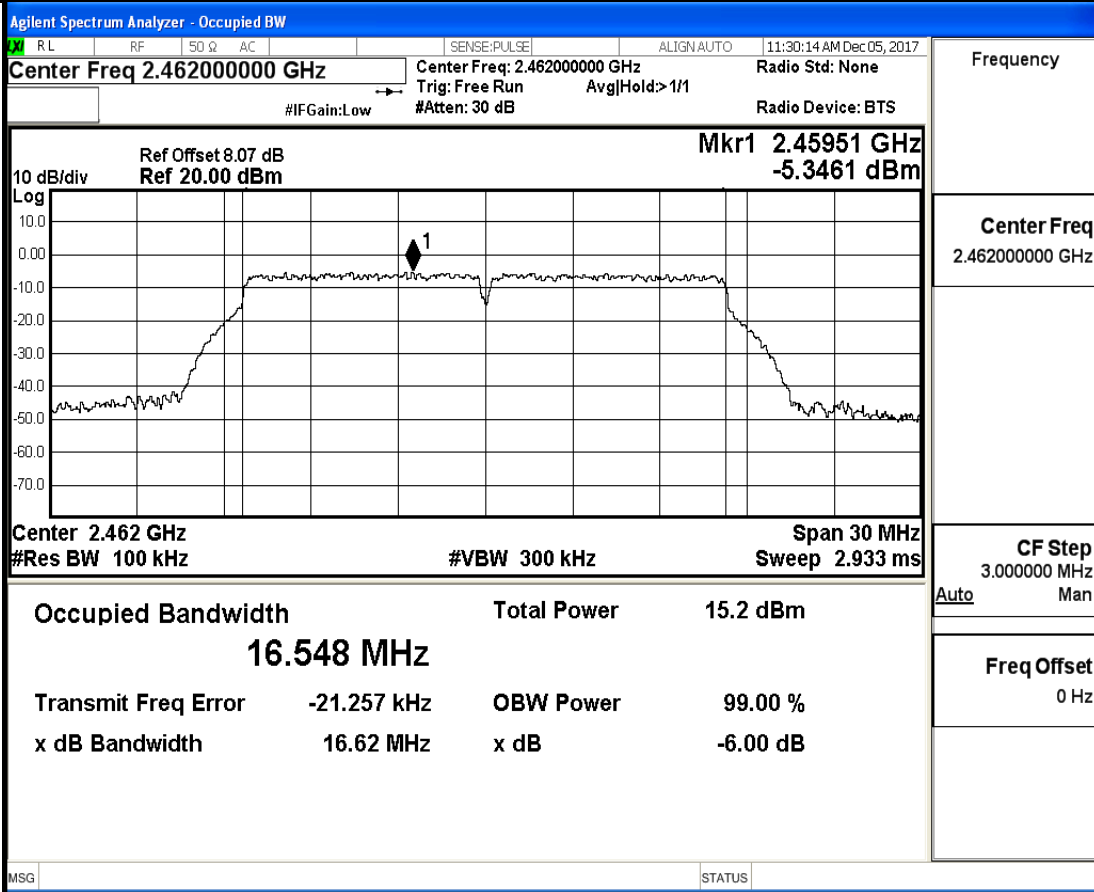
6dB Bandwidth_11G_2412_Ant1



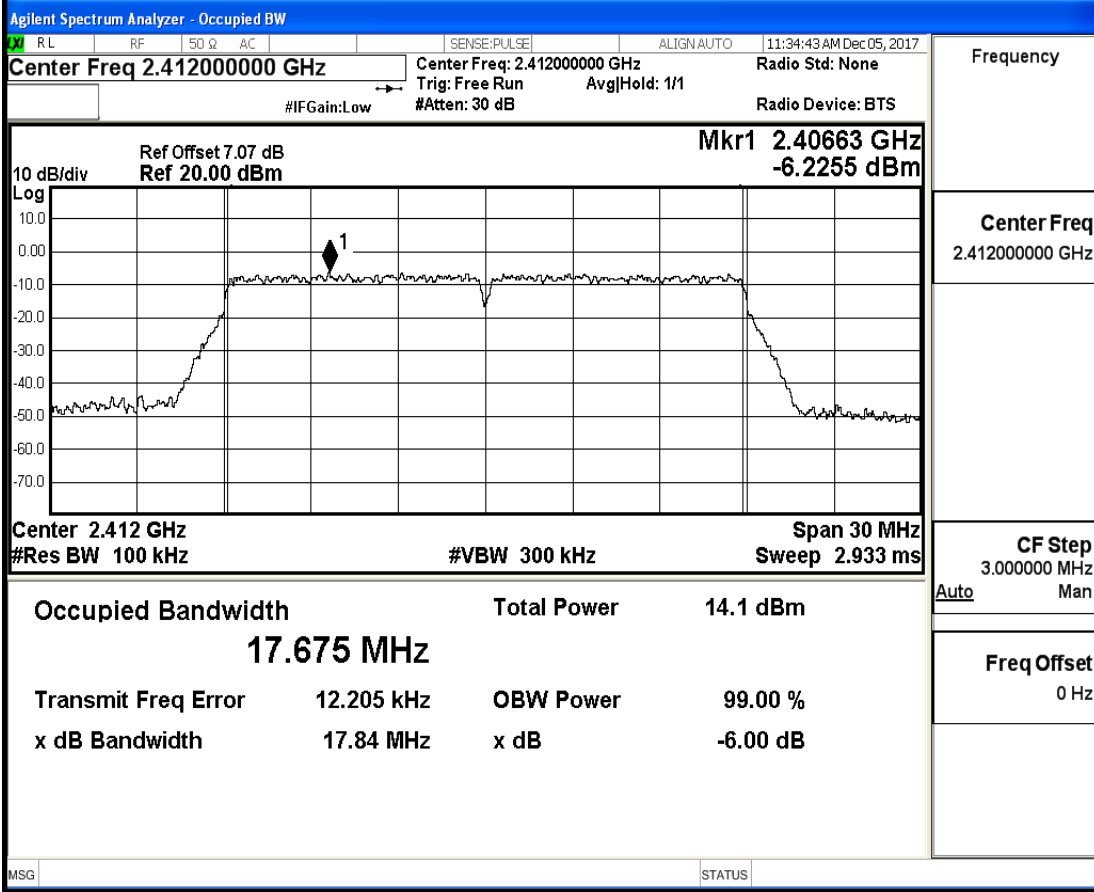
6dB Bandwidth_11G_2437_Ant1



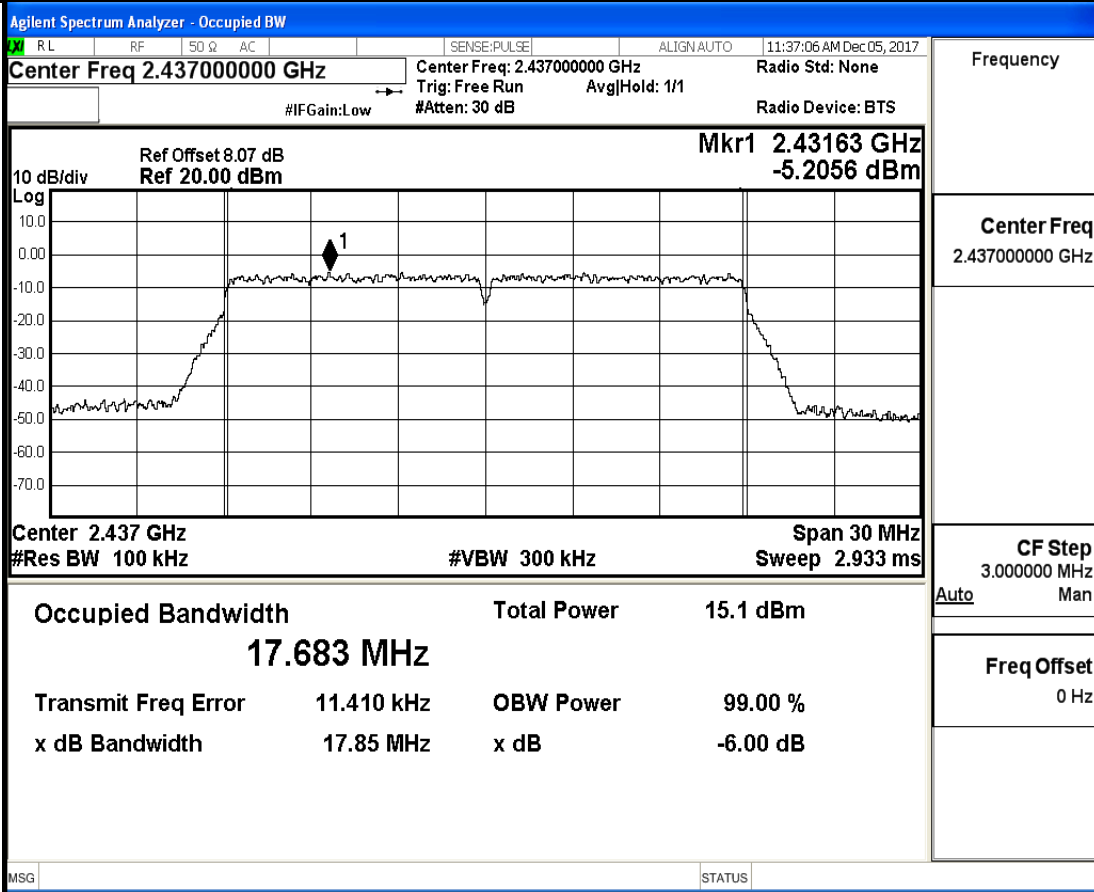
6dB Bandwidth_11G_2462_Ant1



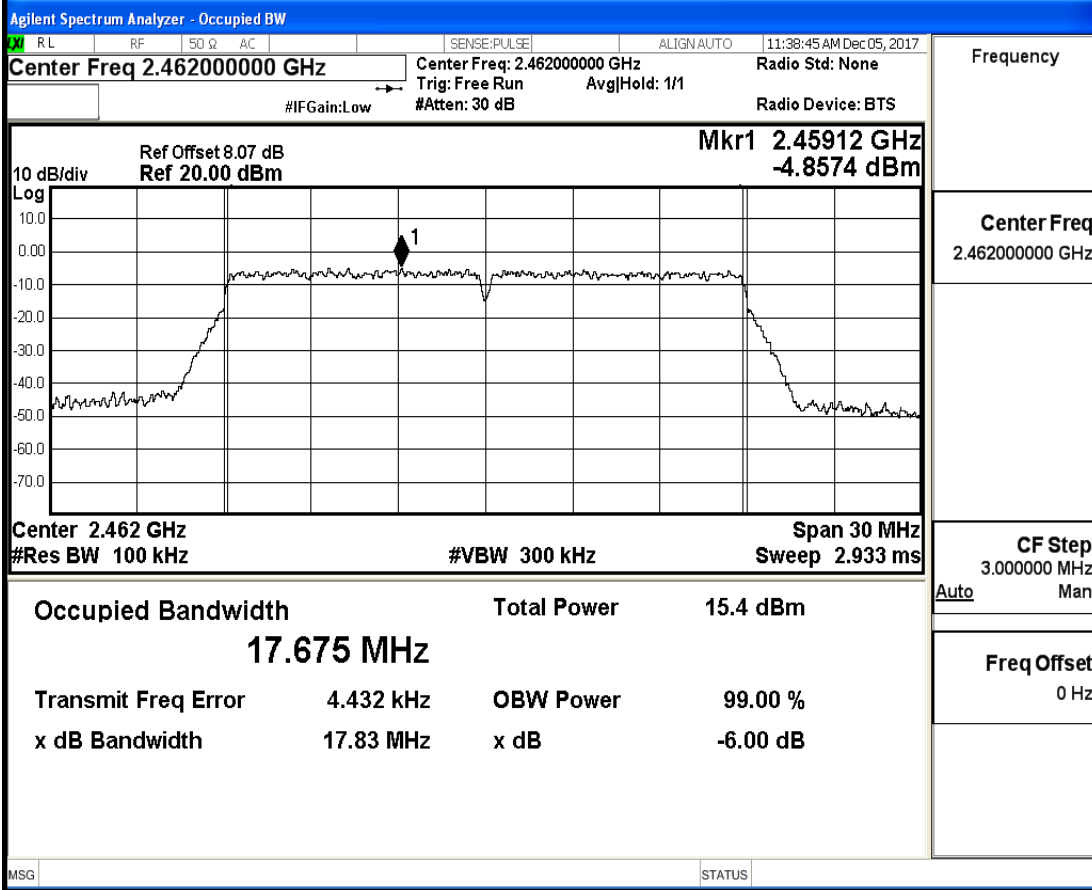
6dB Bandwidth_11N20SISO_2412_Ant1



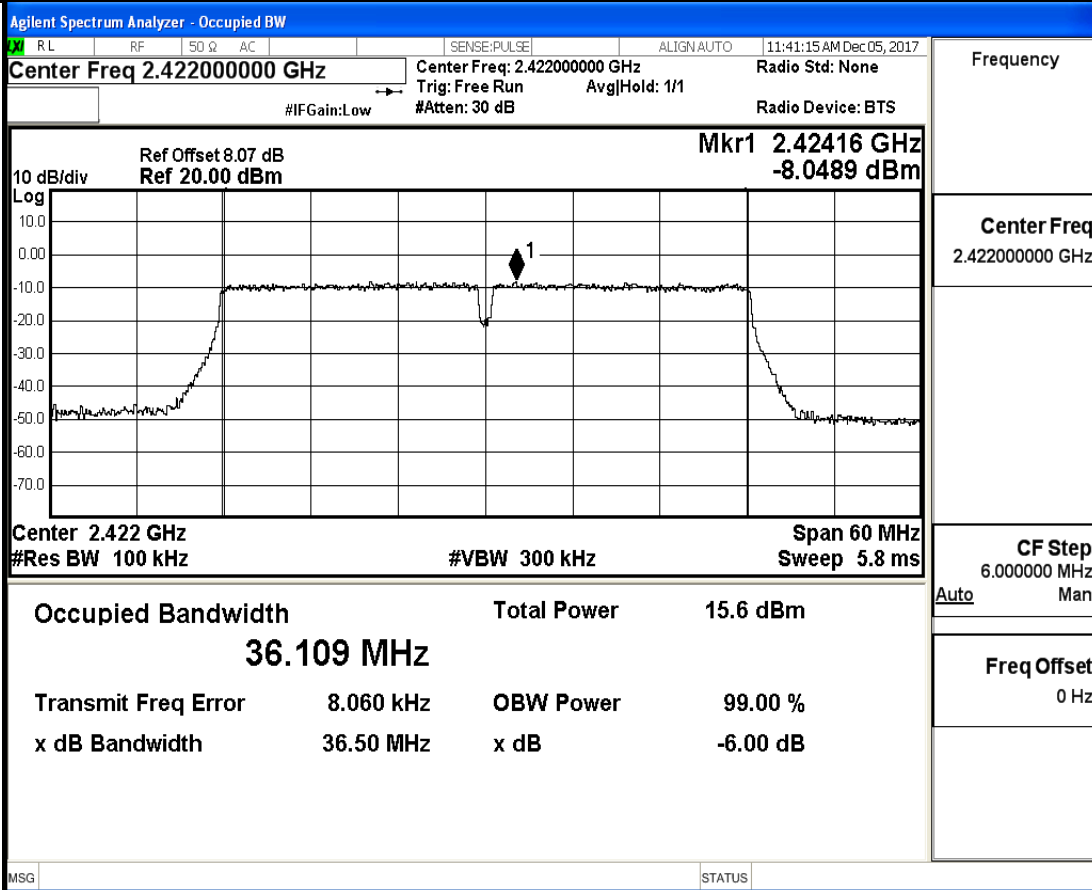
6dB Bandwidth_11N20SISO_2437_Ant1



6dB Bandwidth_11N20SISO_2462_Ant1



6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 11:44:54 AM Dec 05, 2017

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

Ref Offset 8.07 dB Mkr1 2.43916 GHz
 Ref 20.00 dBm -8.2368 dBm

Center 2.437 GHz Span 60 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 5.8 ms

Occupied Bandwidth	Total Power	15.4 dBm
36.128 MHz		
Transmit Freq Error	6.289 kHz	OBW Power 99.00 %
x dB Bandwidth	36.52 MHz	x dB -6.00 dB

Frequency: 2.437000000 GHz

CF Step: 6.000000 MHz (Auto)

Freq Offset: 0 Hz

MSG STATUS

6dB Bandwidth_11N40SISO_2452_Ant1

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 11:52:47 AM Dec 05, 2017

Center Freq 2.45200000 GHz Center Freq: 2.452000000 GHz Radio Std: None
 Trig: Free Run AvgHld: 1/1
 #IFGain:Low #Atten: 30 dB Radio Device: BTS

Ref Offset 8.07 dB Mkr1 2.45548 GHz
 Ref 20.00 dBm -8.1824 dBm

Center 2.452 GHz Span 60 MHz
 #Res BW 100 kHz #VBW 300 kHz Sweep 5.8 ms

Occupied Bandwidth	Total Power	15.6 dBm
36.103 MHz		
Transmit Freq Error	-4.996 kHz	OBW Power 99.00 %
x dB Bandwidth	36.49 MHz	x dB -6.00 dB

Frequency: 2.452000000 GHz

CF Step: 6.000000 MHz (Auto)

Freq Offset: 0 Hz

MSG STATUS

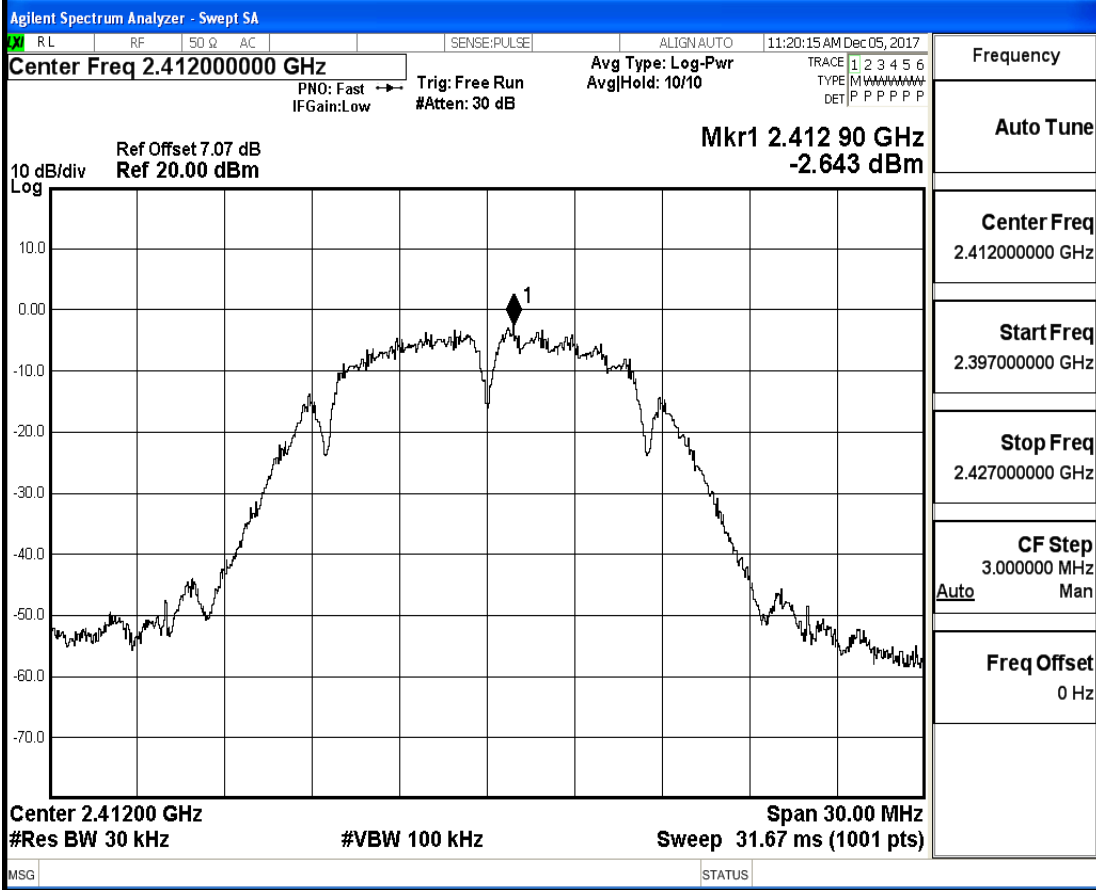
2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
11B	2412	Ant1	15.26	30	PASS
11B	2437	Ant1	16.61	30	PASS
11B	2462	Ant1	16.67	30	PASS
11G	2412	Ant1	15.80	30	PASS
11G	2437	Ant1	16.43	30	PASS
11G	2462	Ant1	16.50	30	PASS
11N20SISO	2412	Ant1	14.39	30	PASS
11N20SISO	2437	Ant1	14.65	30	PASS
11N20SISO	2462	Ant1	14.88	30	PASS
11N40SISO	2422	Ant1	14.52	30	PASS
11N40SISO	2437	Ant1	14.62	30	PASS
11N40SISO	2452	Ant1	14.71	30	PASS

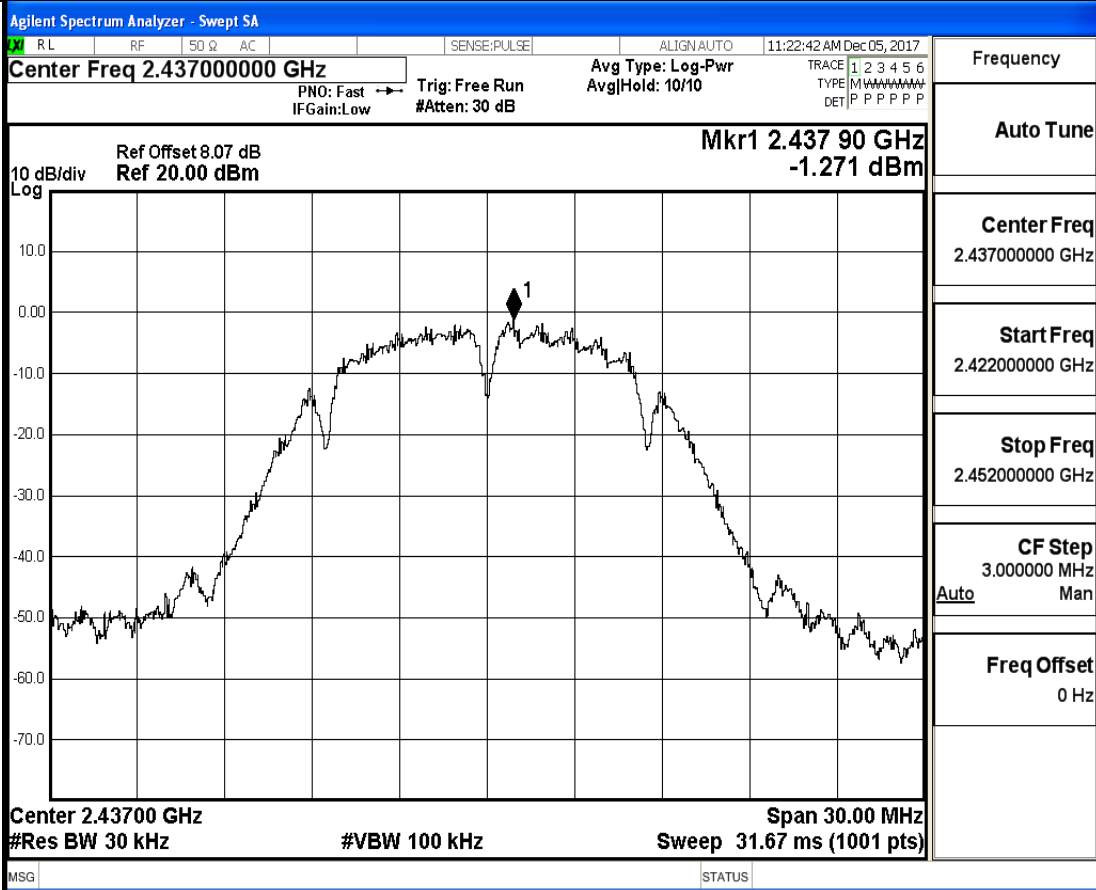
3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/KHz]	Limit[dBm/KHz]	Verdict
11B	2412	Ant1	-2.643	8.00	PASS
11B	2437	Ant1	-1.271	8.00	PASS
11B	2462	Ant1	-1.213	8.00	PASS
11G	2412	Ant1	-9.047	8.00	PASS
11G	2437	Ant1	-8.184	8.00	PASS
11G	2462	Ant1	-7.807	8.00	PASS
11N20SISO	2412	Ant1	-10.106	8.00	PASS
11N20SISO	2437	Ant1	-9.989	8.00	PASS
11N20SISO	2462	Ant1	-9.586	8.00	PASS
11N40SISO	2422	Ant1	-11.268	8.00	PASS
11N40SISO	2437	Ant1	-11.275	8.00	PASS
11N40SISO	2452	Ant1	-11.273	8.00	PASS

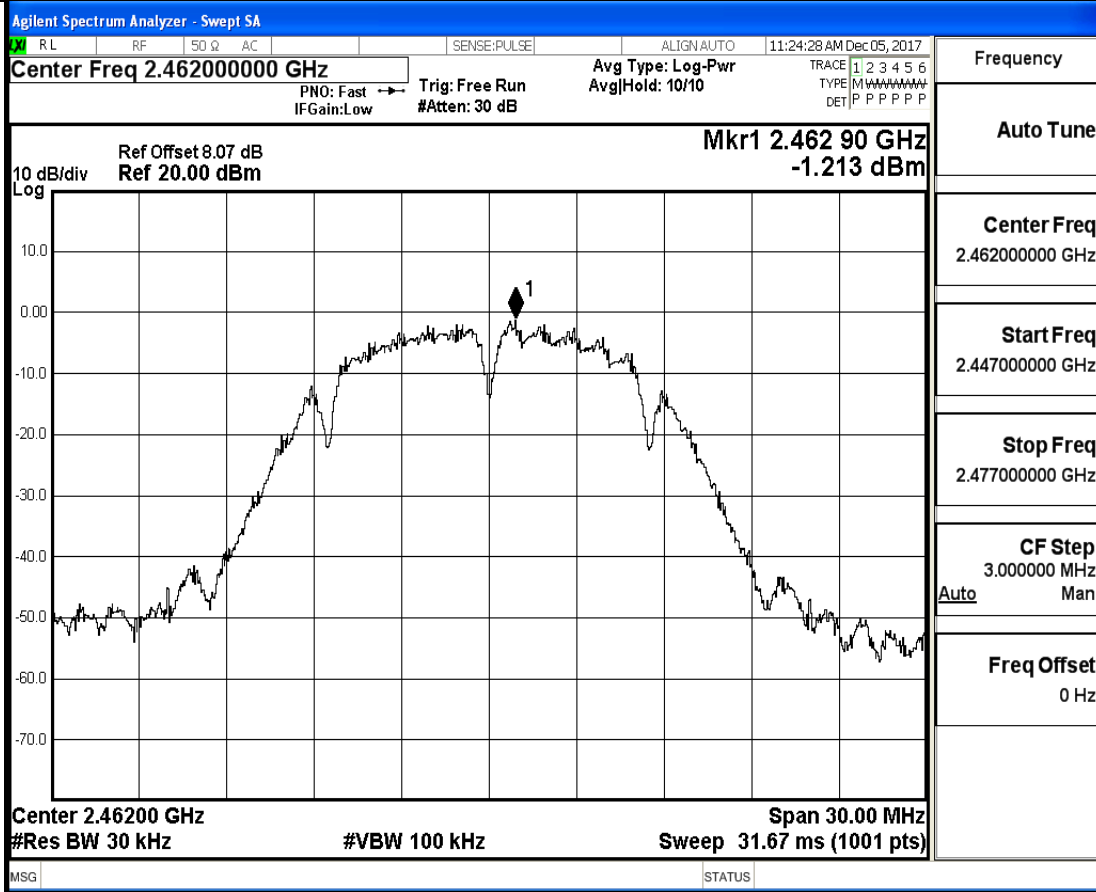
Maximum Peak power spectral density_11B_2412_Ant1



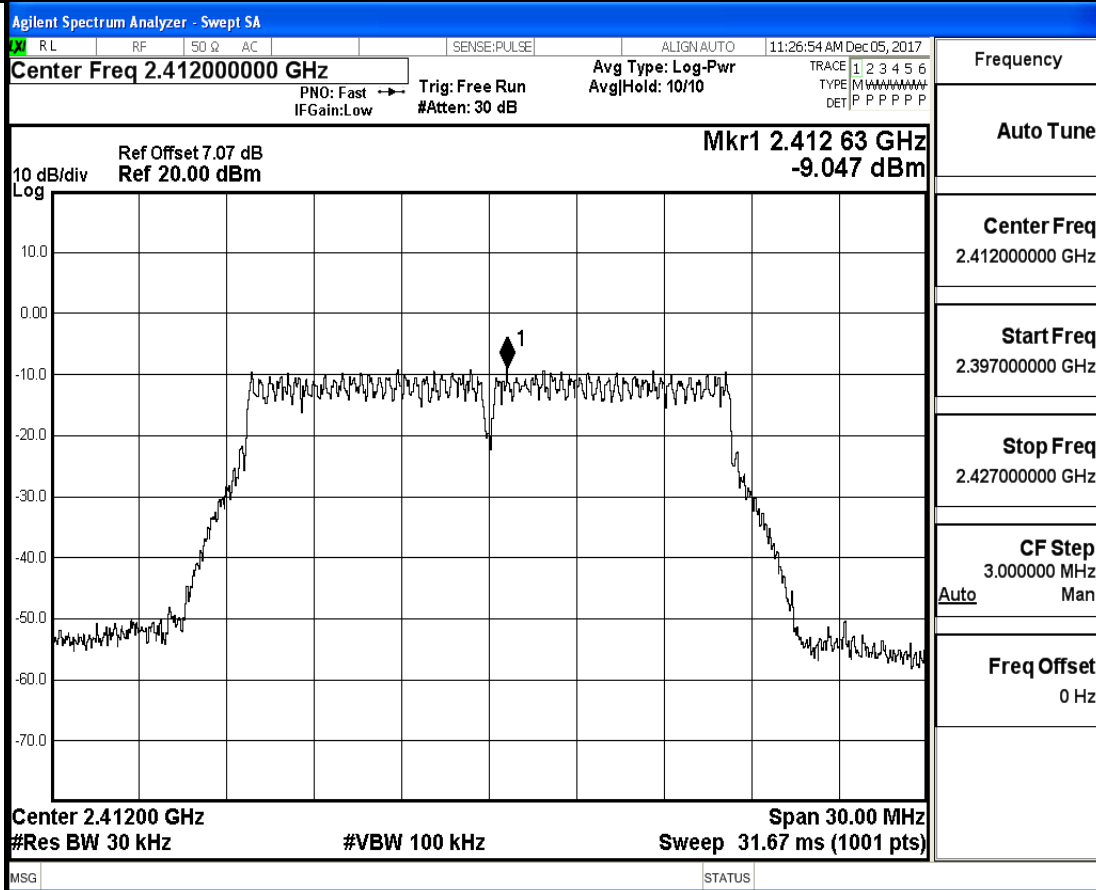
Maximum Peak power spectral density_11B_2437_Ant1



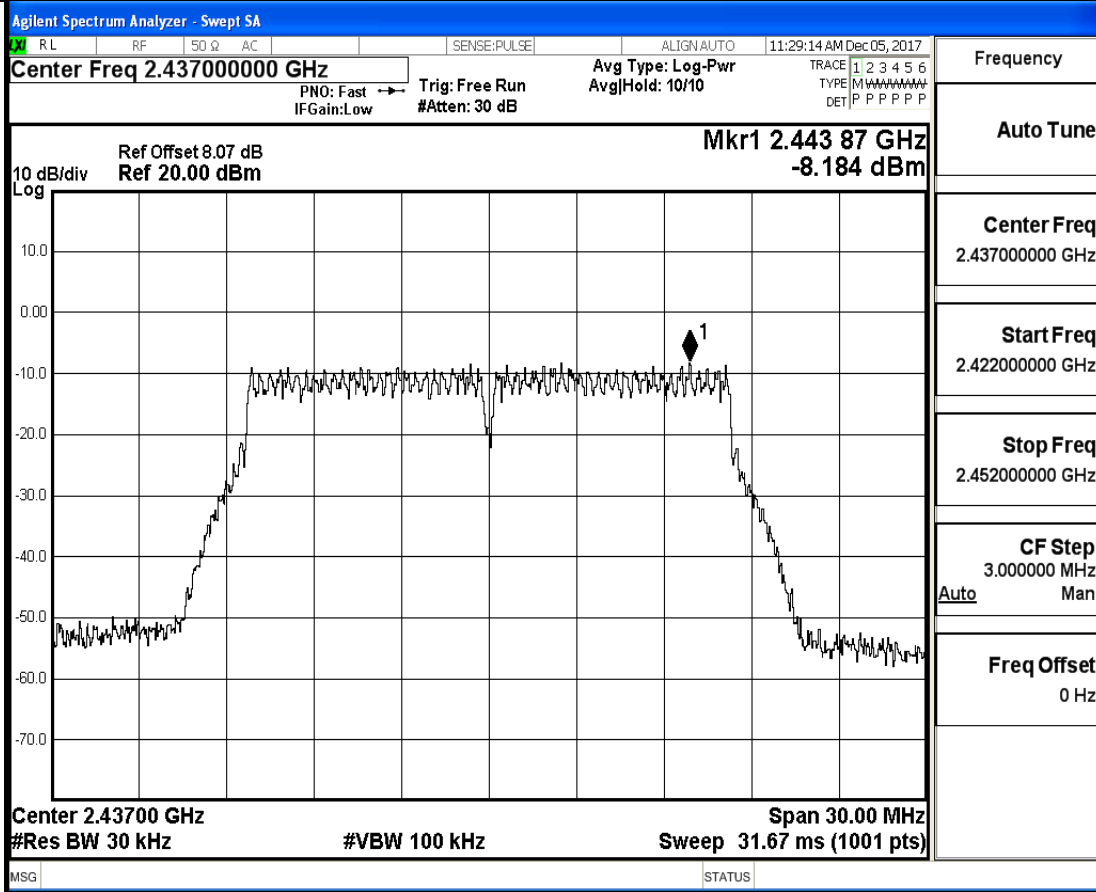
Maximum Peak power spectral density_11B_2462_Ant1



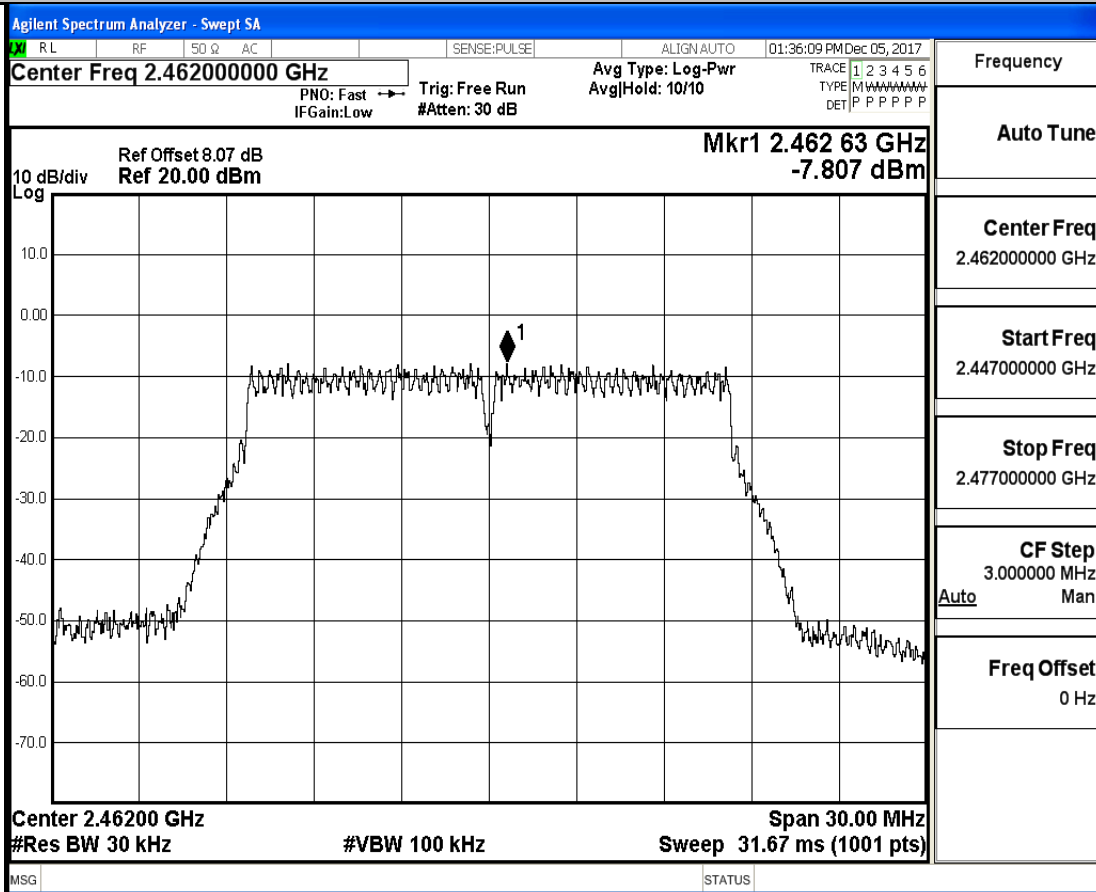
Maximum Peak power spectral density_11G_2412_Ant1



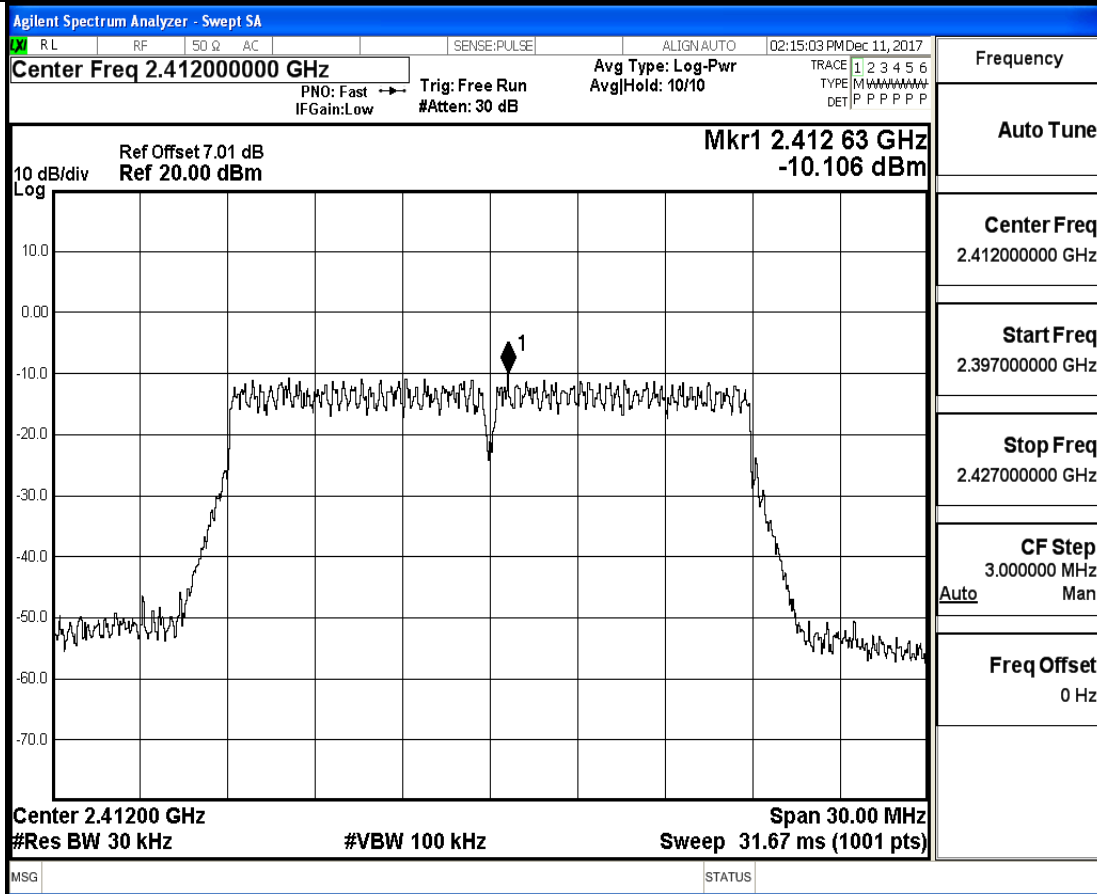
Maximum Peak power spectral density_11G_2437_Ant1



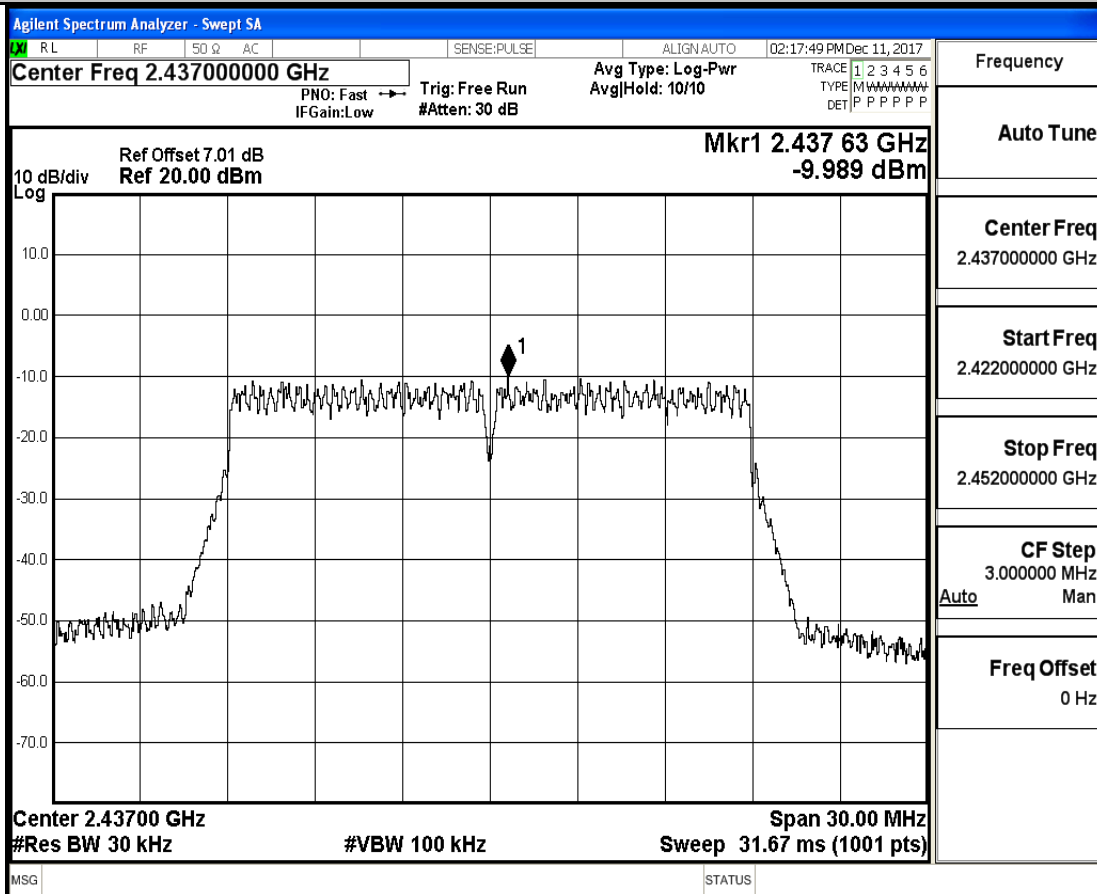
Maximum Peak power spectral density_11G_2462_Ant1



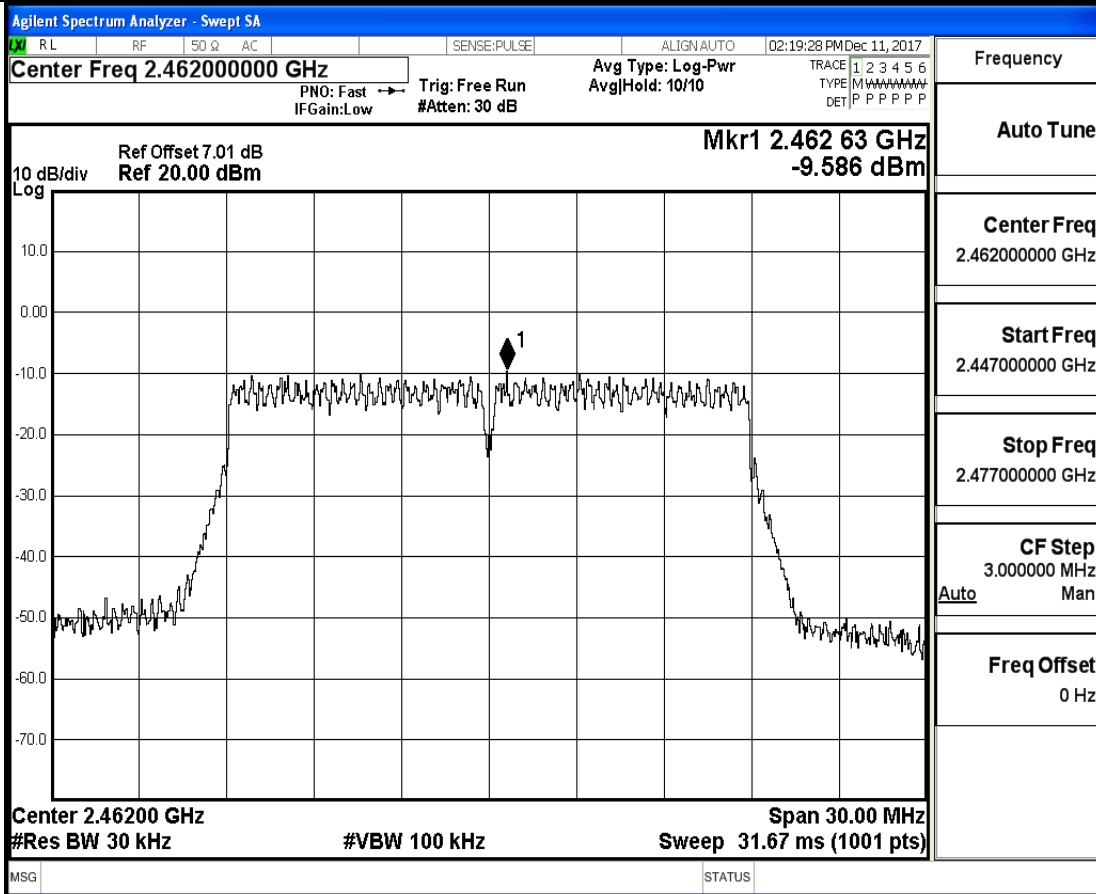
Maximum Peak power spectral density_11N20SISO_2412_Ant1



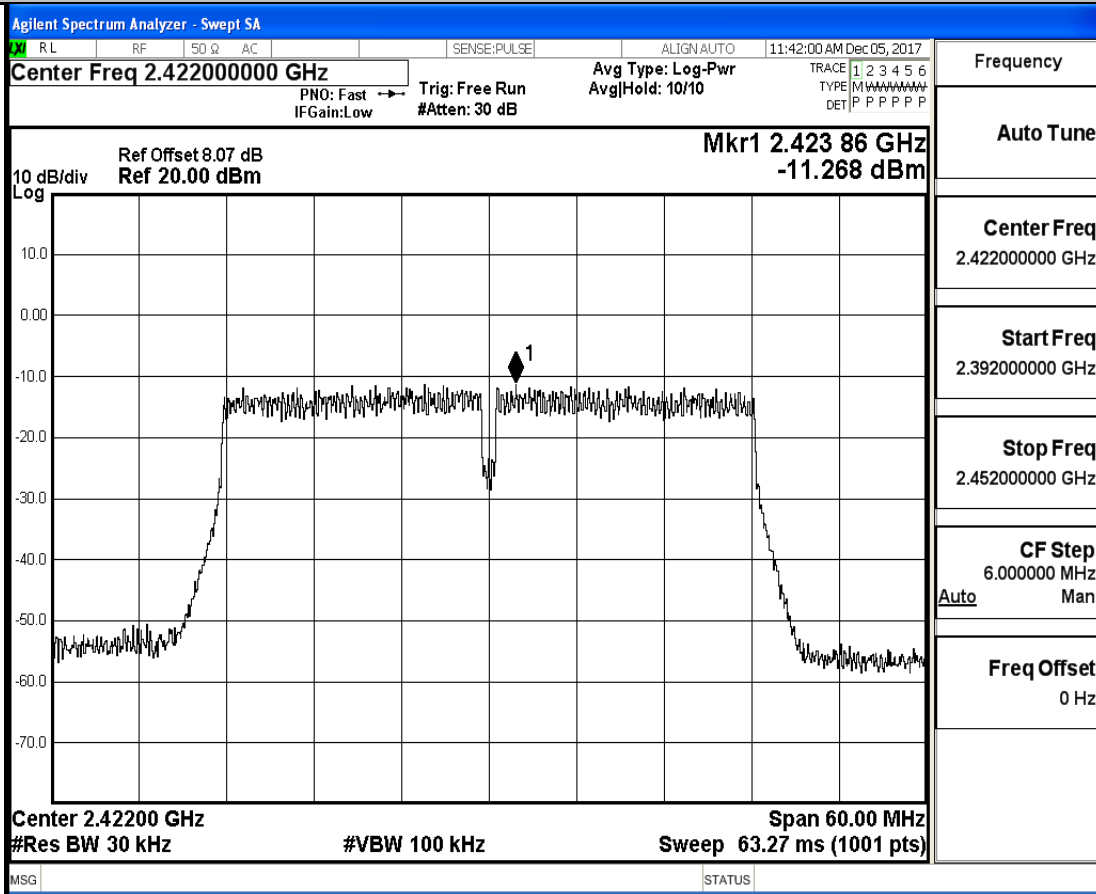
Maximum Peak power spectral density_11N20SISO_2437_Ant1



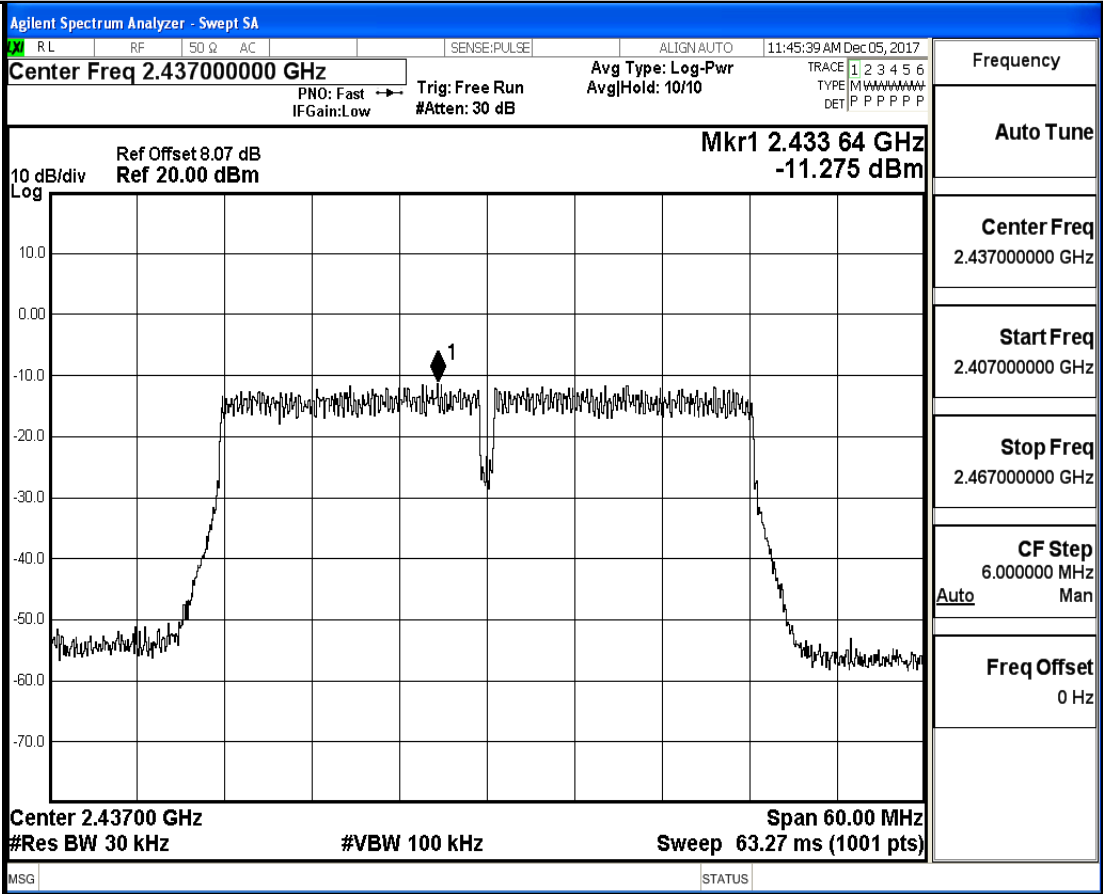
Maximum Peak power spectral density_11N20SISO_2462_Ant1



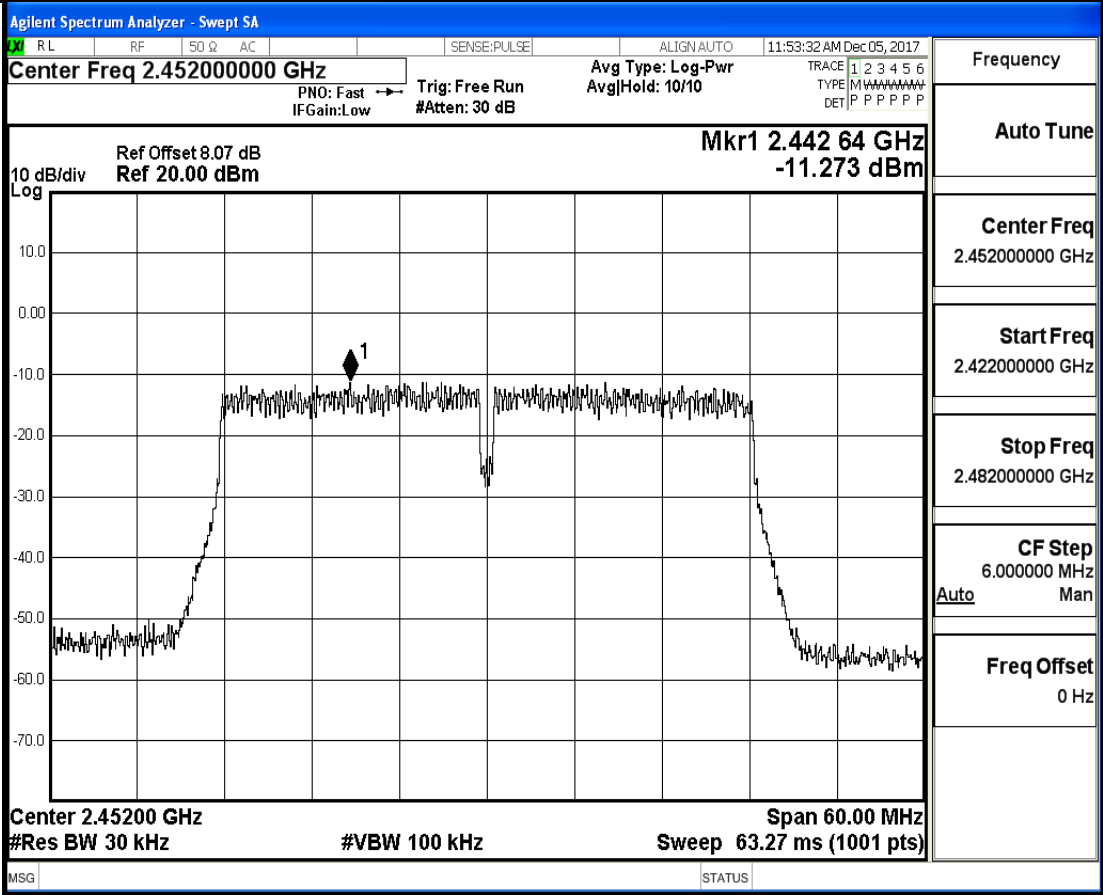
Maximum Peak power spectral density_11N40SISO_2422_Ant1



Maximum Peak power spectral density_11N40SISO_2437_Ant1



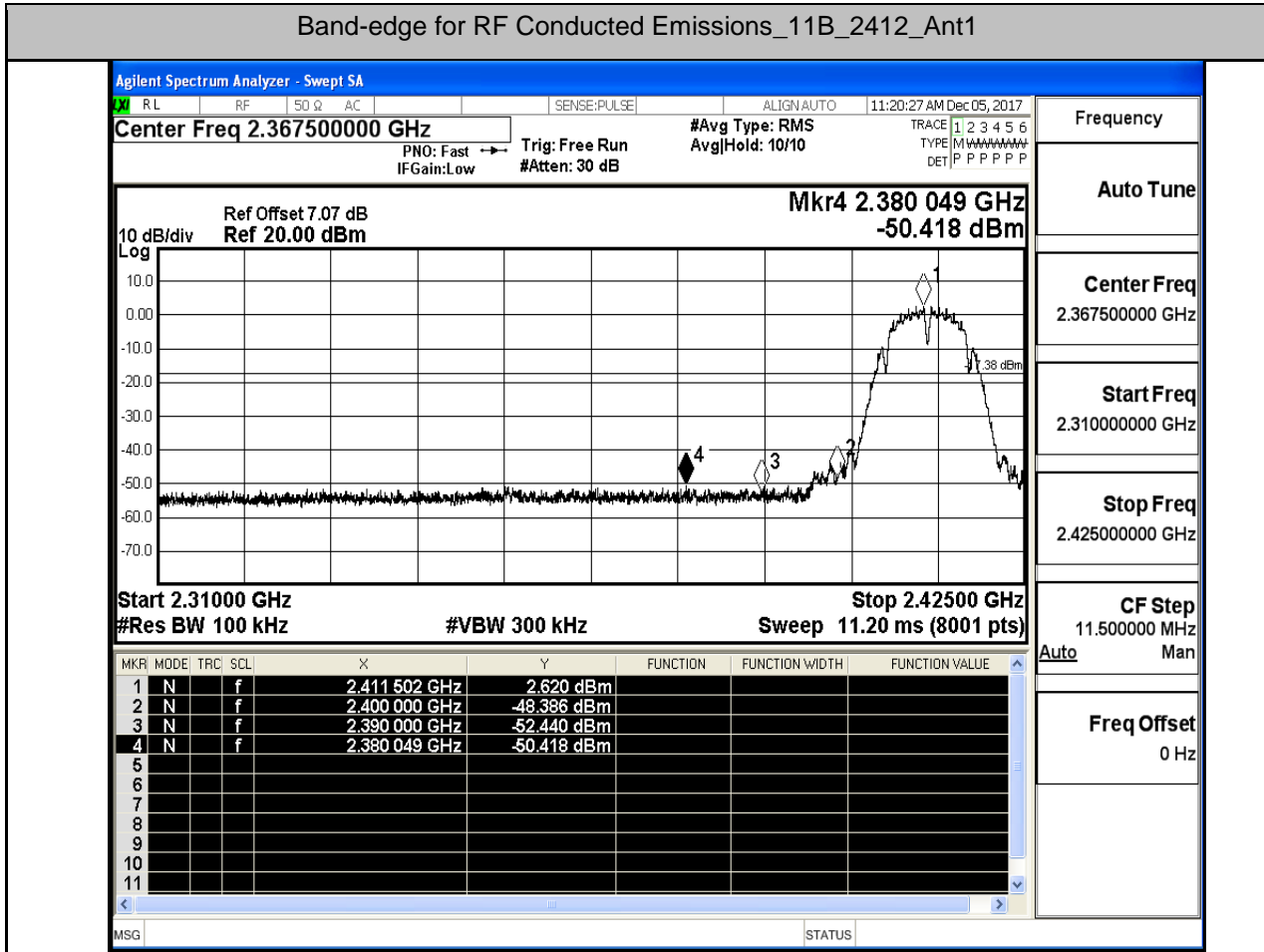
Maximum Peak power spectral density_11N40SISO_2452_Ant1



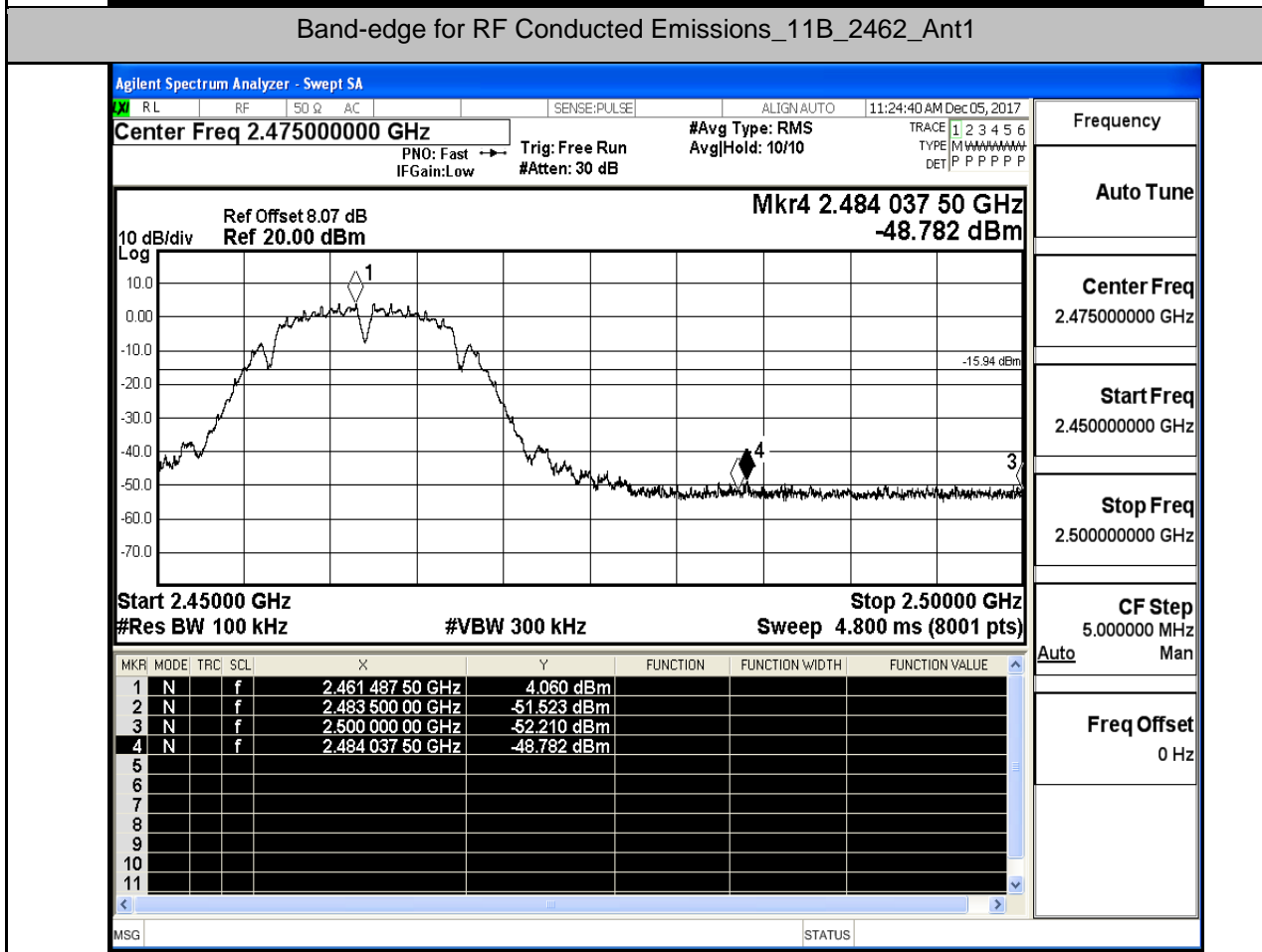
4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	2.620	-50.418	-17.38	PASS
11B	2462	Ant1	4.060	-48.782	-15.94	PASS
11G	2412	Ant1	-6.097	-50.408	-26.1	PASS
11G	2462	Ant1	-5.367	-48.860	-25.37	PASS
11N20SISO	2412	Ant1	-6.226	-49.074	-26.23	PASS
11N20SISO	2462	Ant1	-5.164	-49.003	-25.16	PASS
11N40SISO	2422	Ant1	-7.929	-47.811	-27.93	PASS
11N40SISO	2452	Ant1	-8.155	-49.154	-28.16	PASS

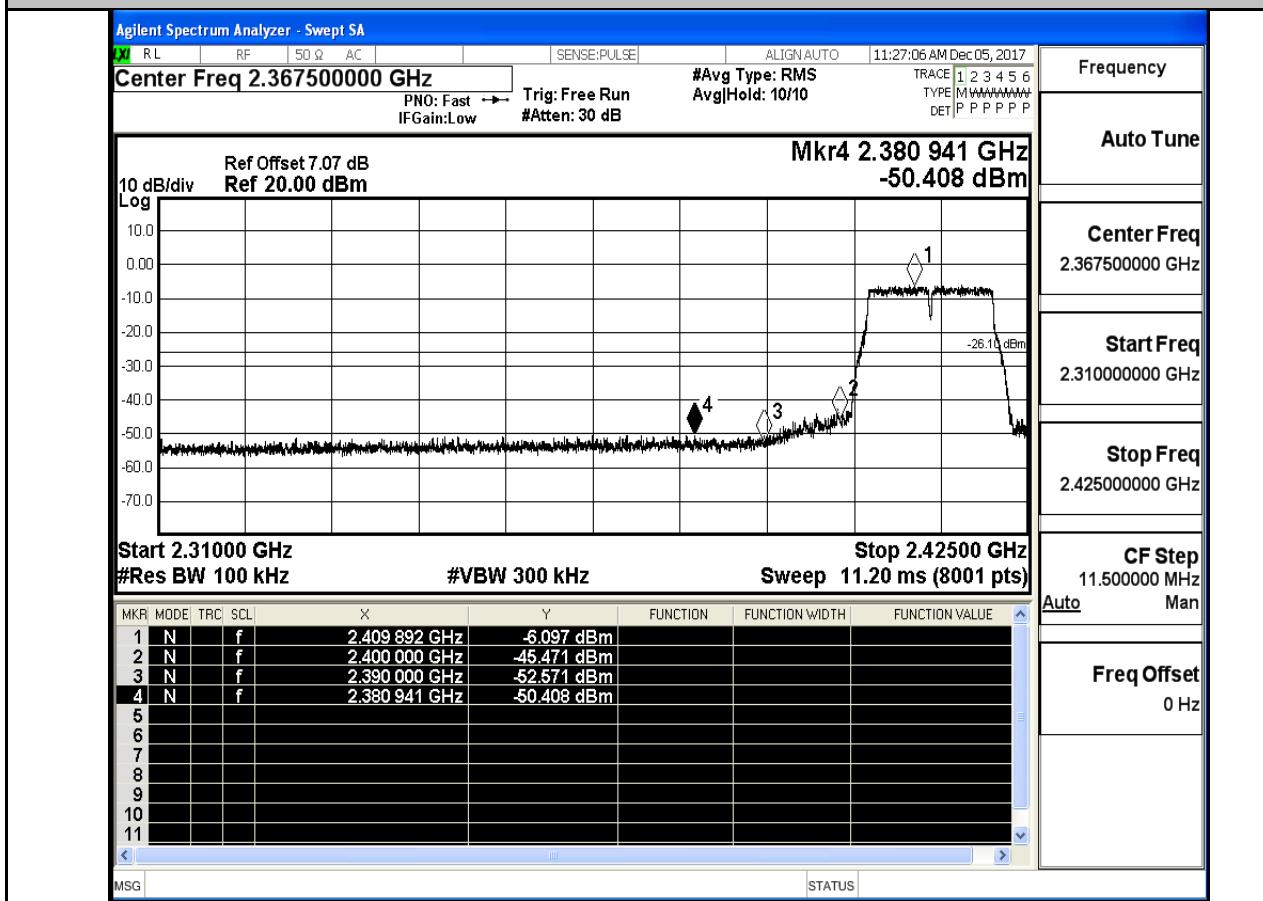
Band-edge for RF Conducted Emissions_11B_2412_Ant1



Band-edge for RF Conducted Emissions_11B_2462_Ant1

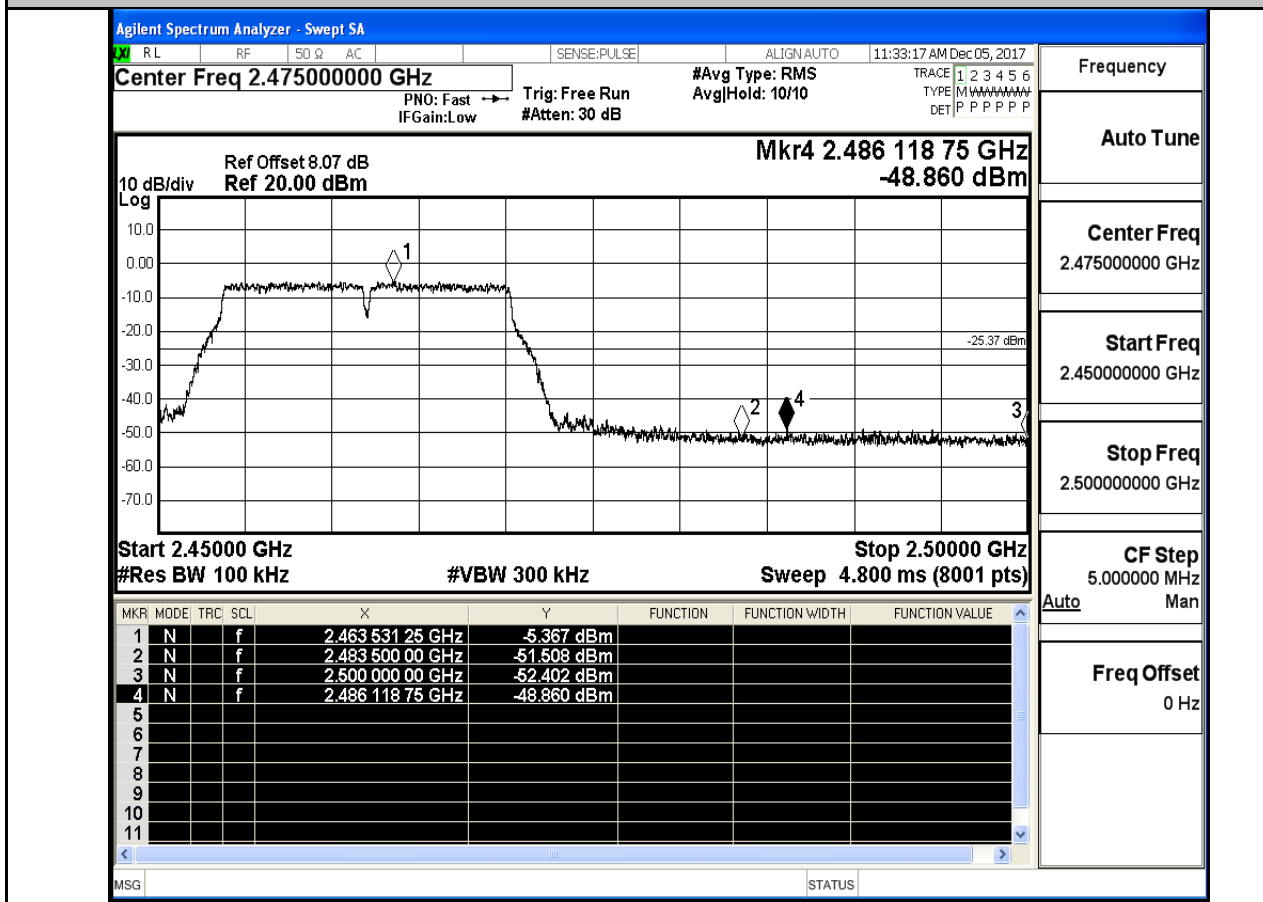


Band-edge for RF Conducted Emissions_11G_2412_Ant1



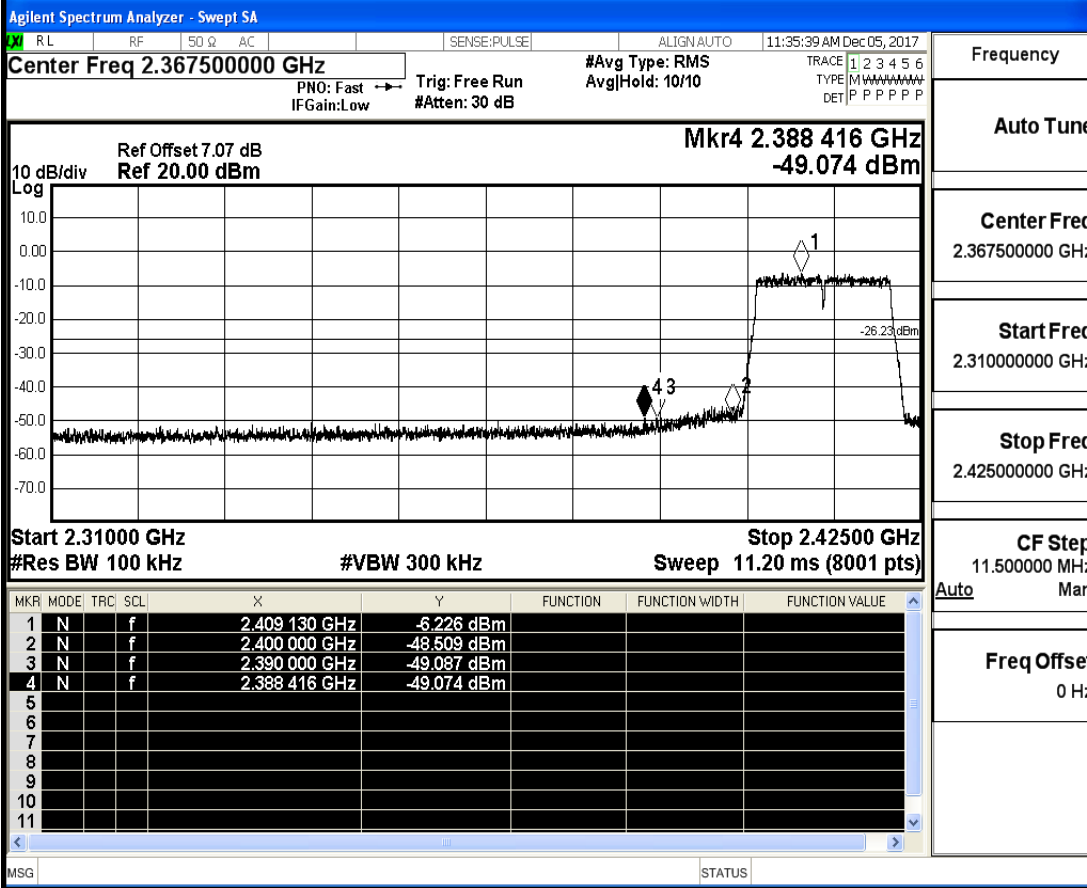
Frequency	
Auto Tune	
Center Freq	2.367500000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.425000000 GHz
CF Step	11.500000 MHz
Auto	Man
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_11G_2462_Ant1



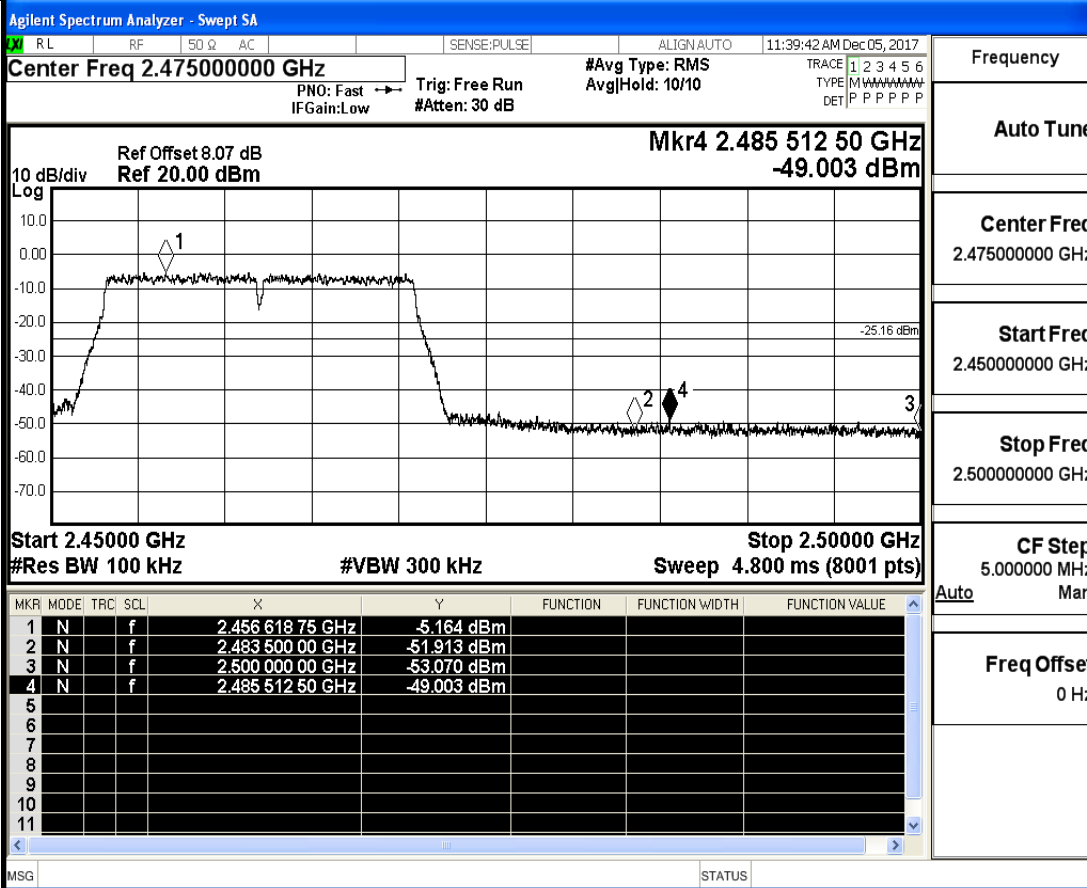
Frequency	
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1



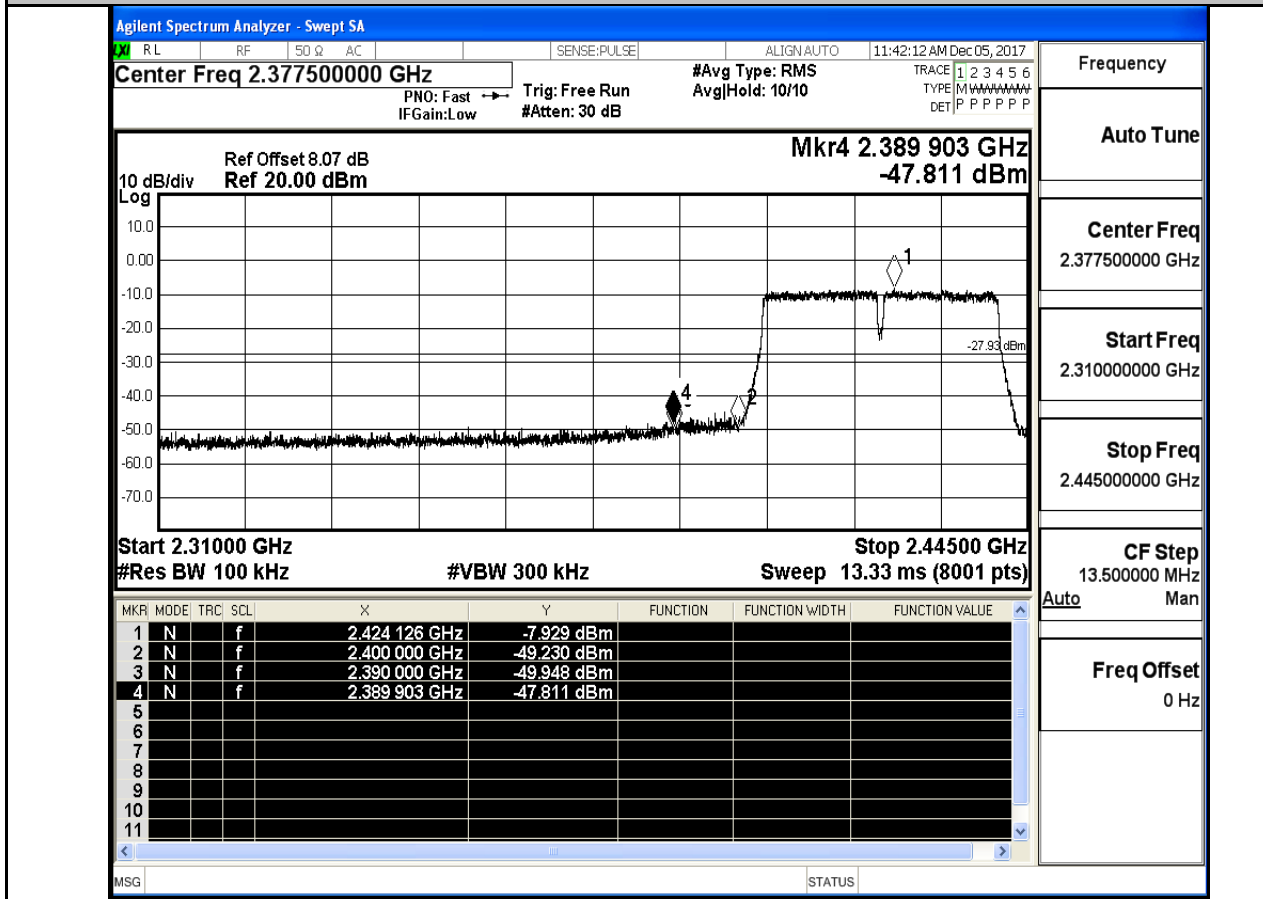
Frequency	
Auto Tune	
Center Freq	2.367500000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.425000000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1

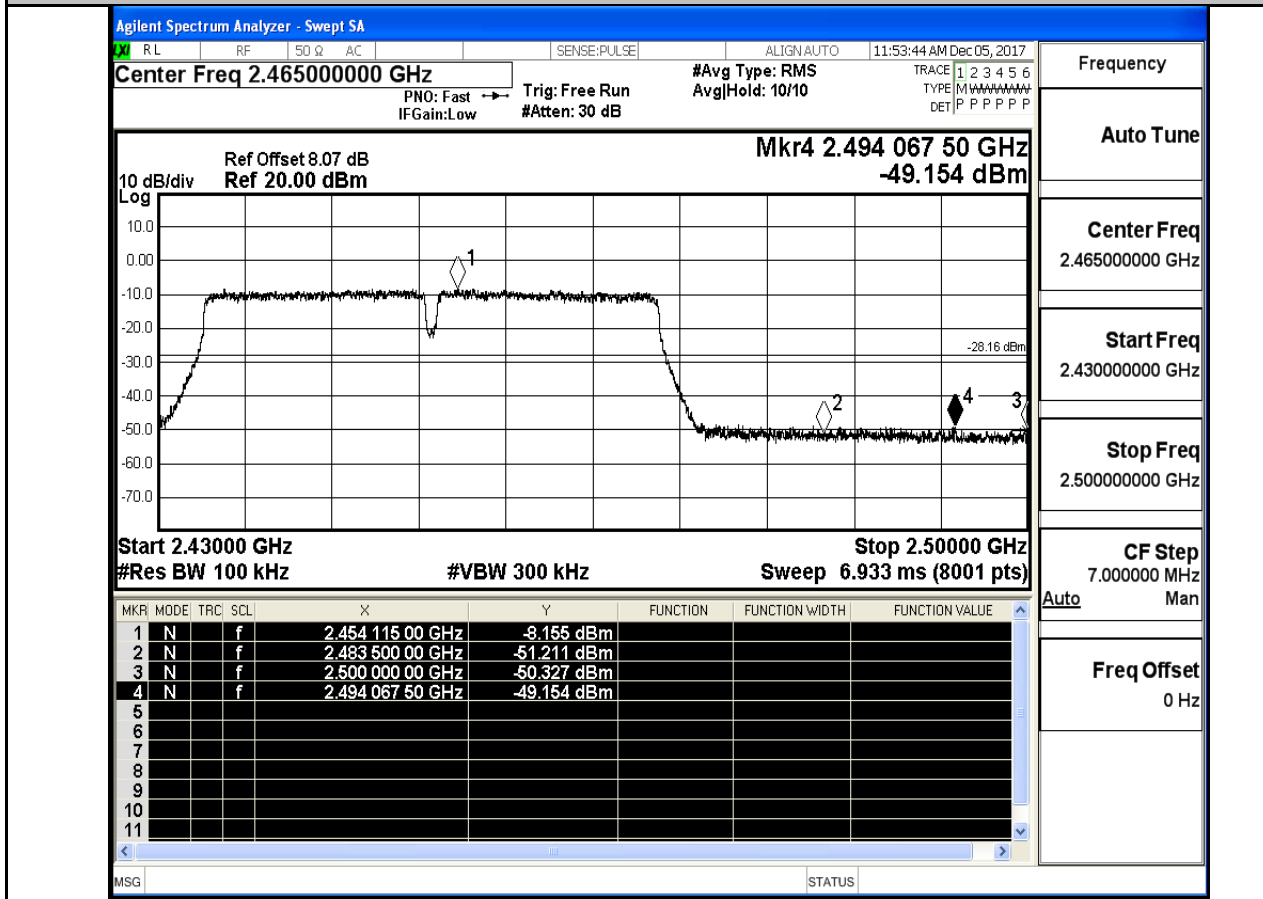


Frequency	
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1



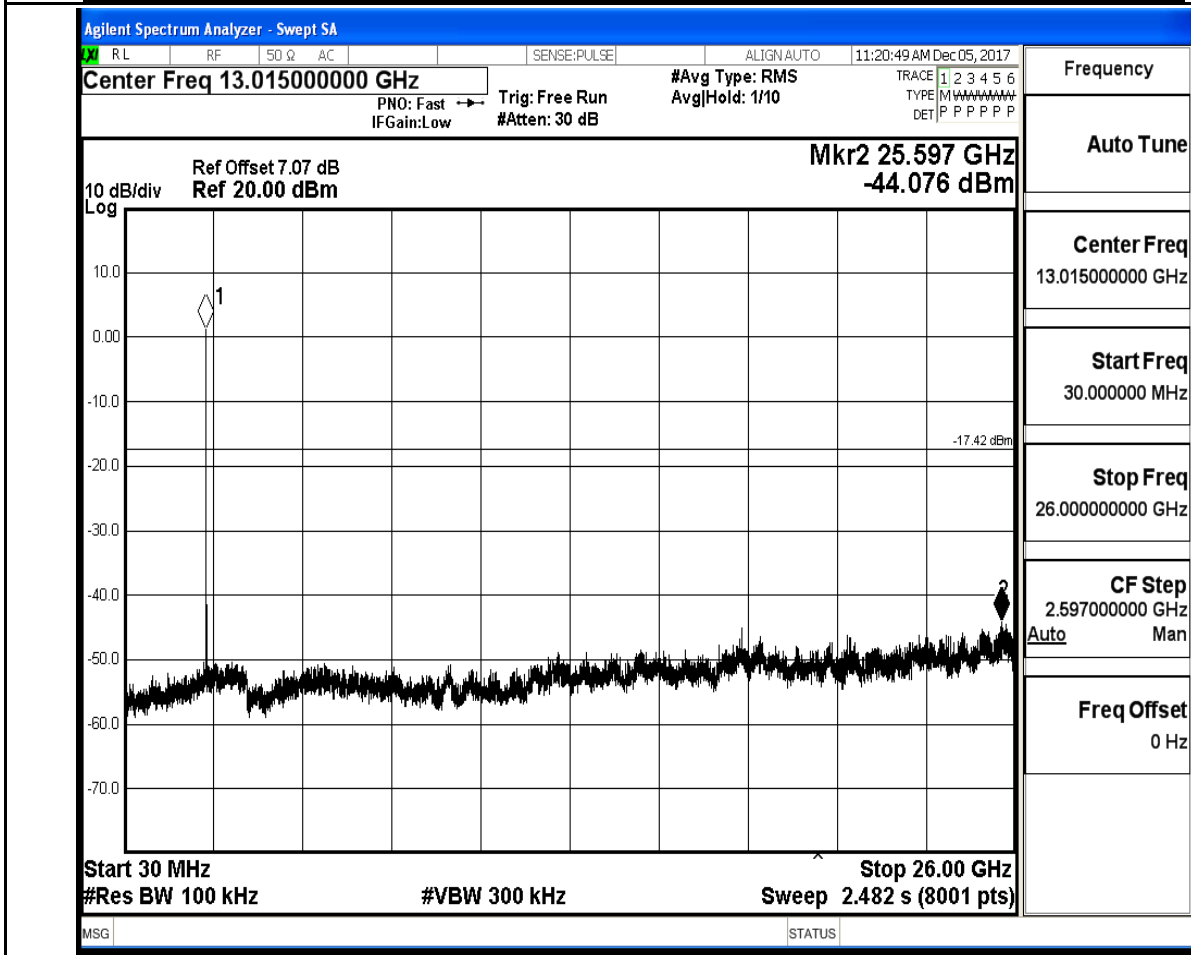
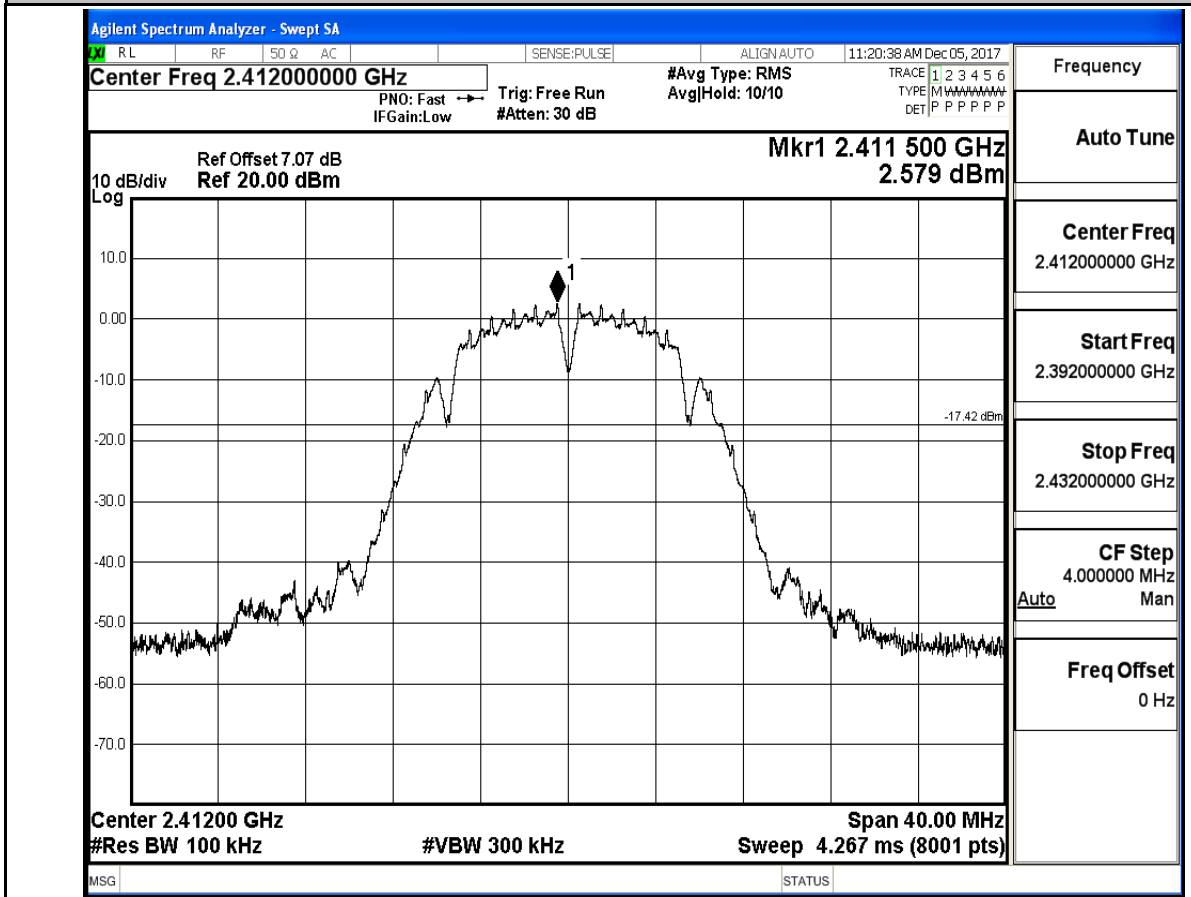
Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1



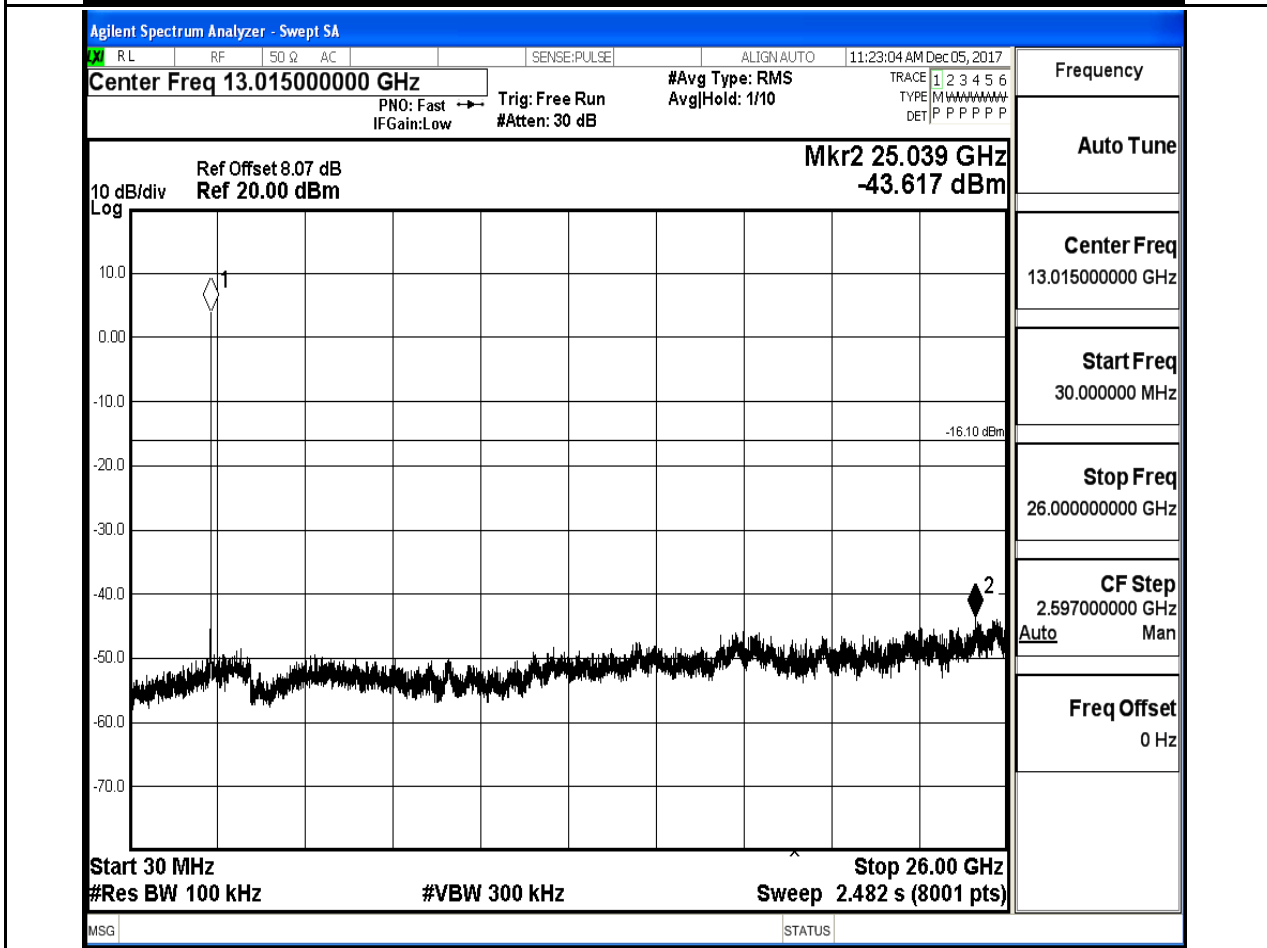
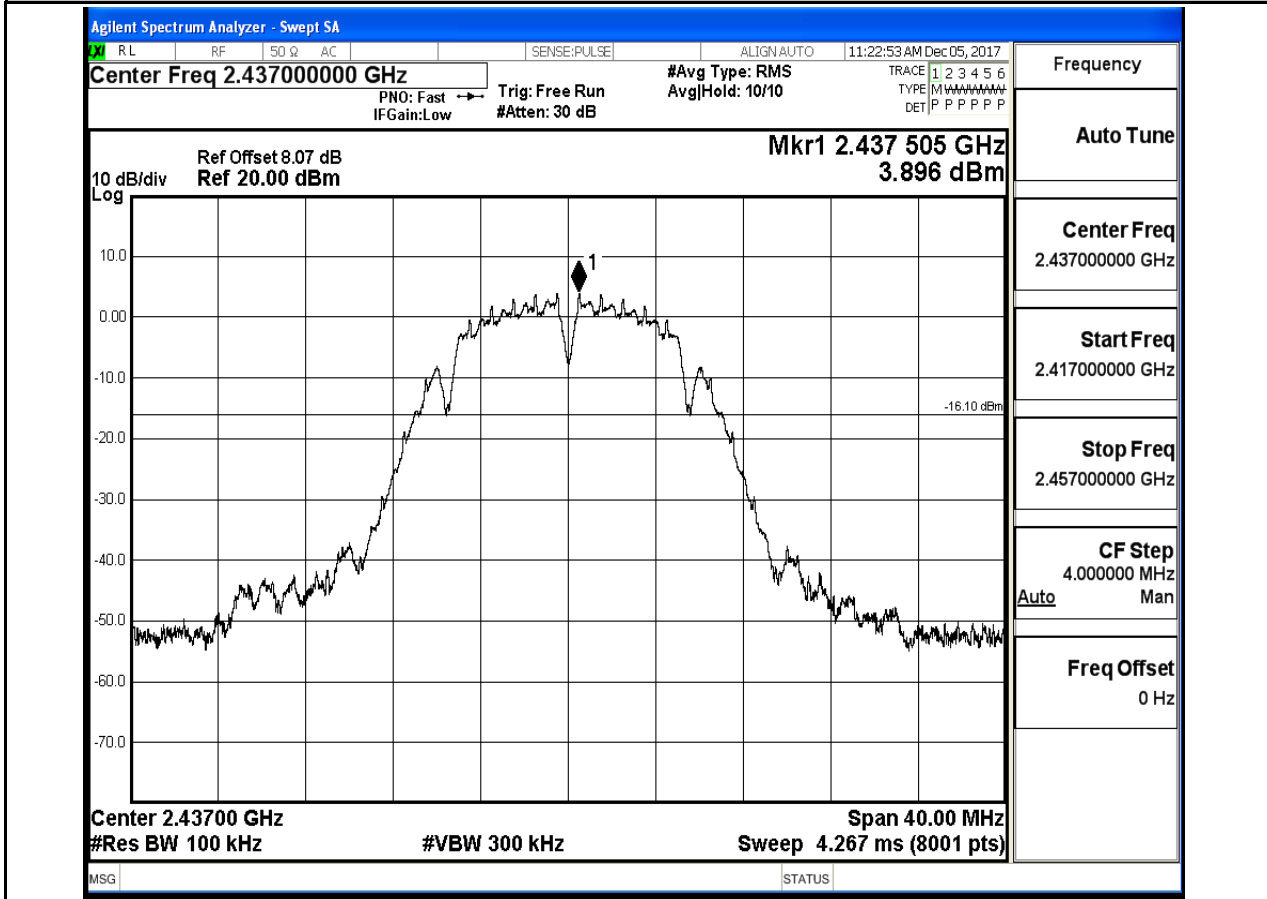
5.RF Conducted Spurious Emissions

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	2.579	-44.076	<- 17.421	PASS
11B	2437	Ant1	30	26000	100	300	3.896	-43.617	<- 16.104	PASS
11B	2462	Ant1	30	26000	100	300	3.995	-42.435	<- 16.005	PASS
11G	2412	Ant1	30	26000	100	300	-6.119	-44.475	<- 26.119	PASS
11G	2437	Ant1	30	26000	100	300	-5.631	-43.991	<- 25.631	PASS
11G	2462	Ant1	30	26000	100	300	-5.419	-43.837	<- 25.419	PASS
11N20SISO	2412	Ant1	30	26000	100	300	-7.429	-44.288	<- 27.429	PASS
11N20SISO	2437	Ant1	30	26000	100	300	-7.301	-44.524	<- 27.301	PASS
11N20SISO	2462	Ant1	30	26000	100	300	-7.036	-44.715	<- 27.036	PASS
11N40SISO	2422	Ant1	30	26000	100	300	-10.18	-43.935	<-30.18	PASS
11N40SISO	2437	Ant1	30	26000	100	300	-9.93	-43.947	<-29.93	PASS
11N40SISO	2452	Ant1	30	26000	100	300	-9.729	-44.027	<- 29.729	PASS

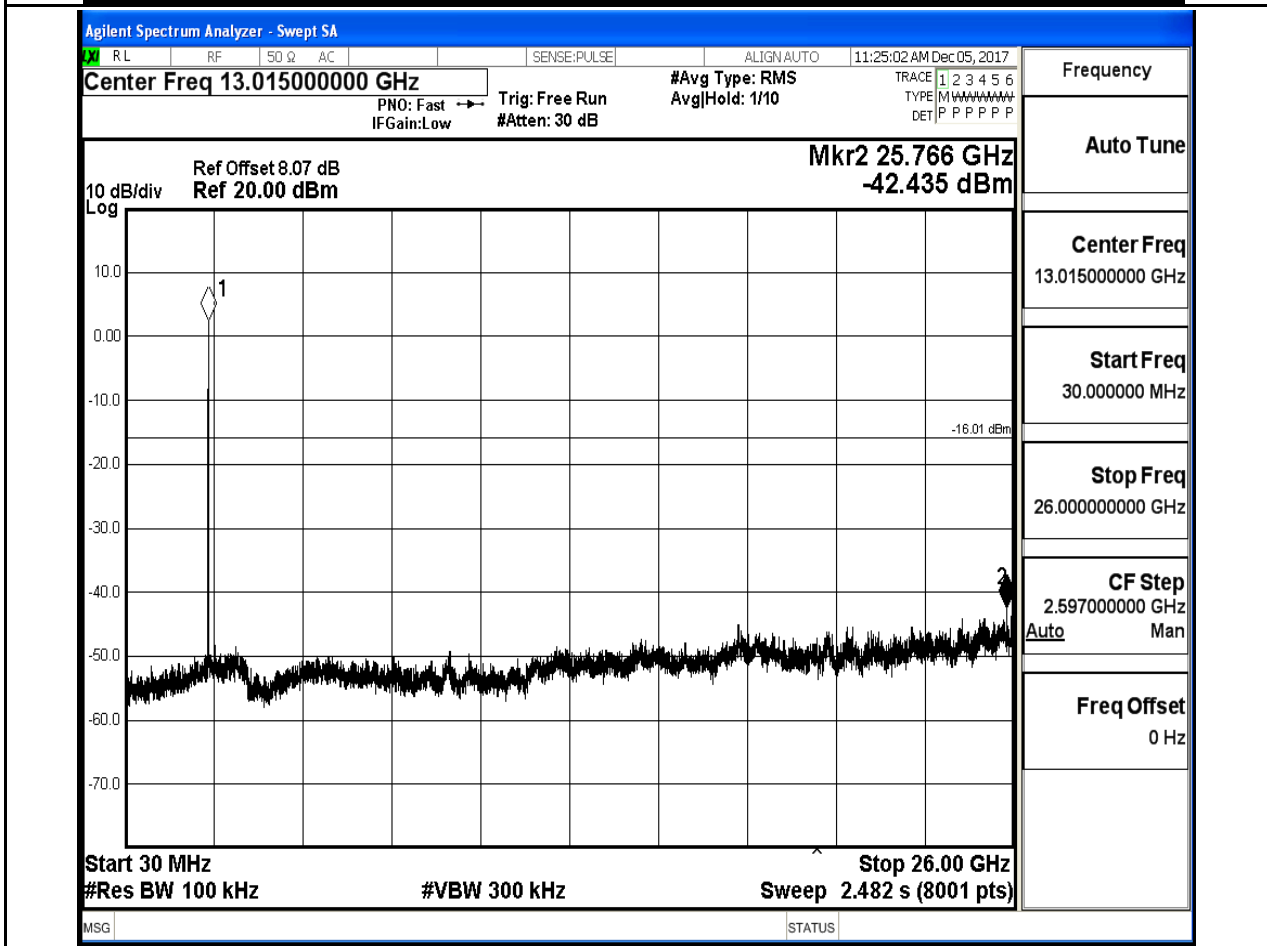
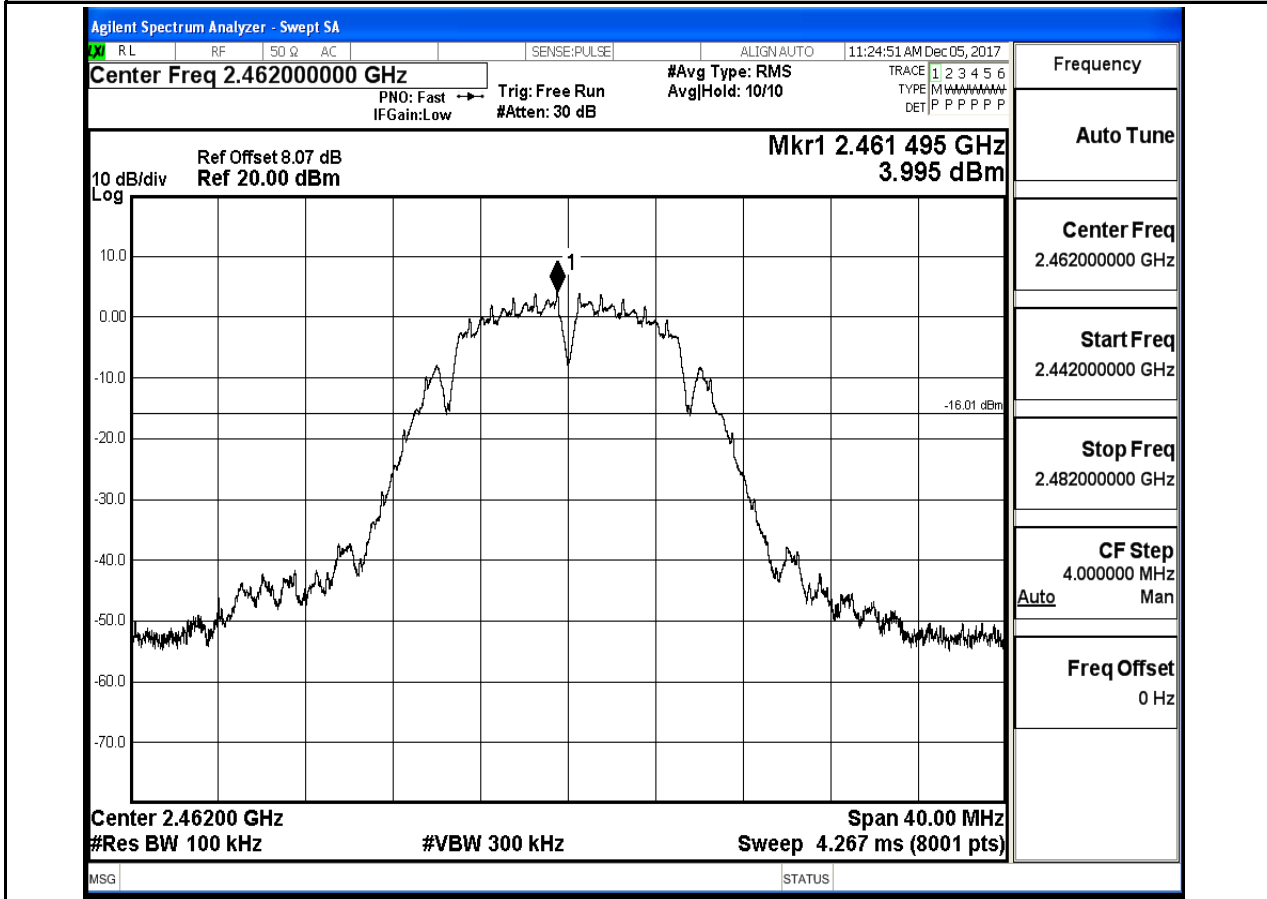
RF Conducted Spurious Emissions_11B_2412_Ant1



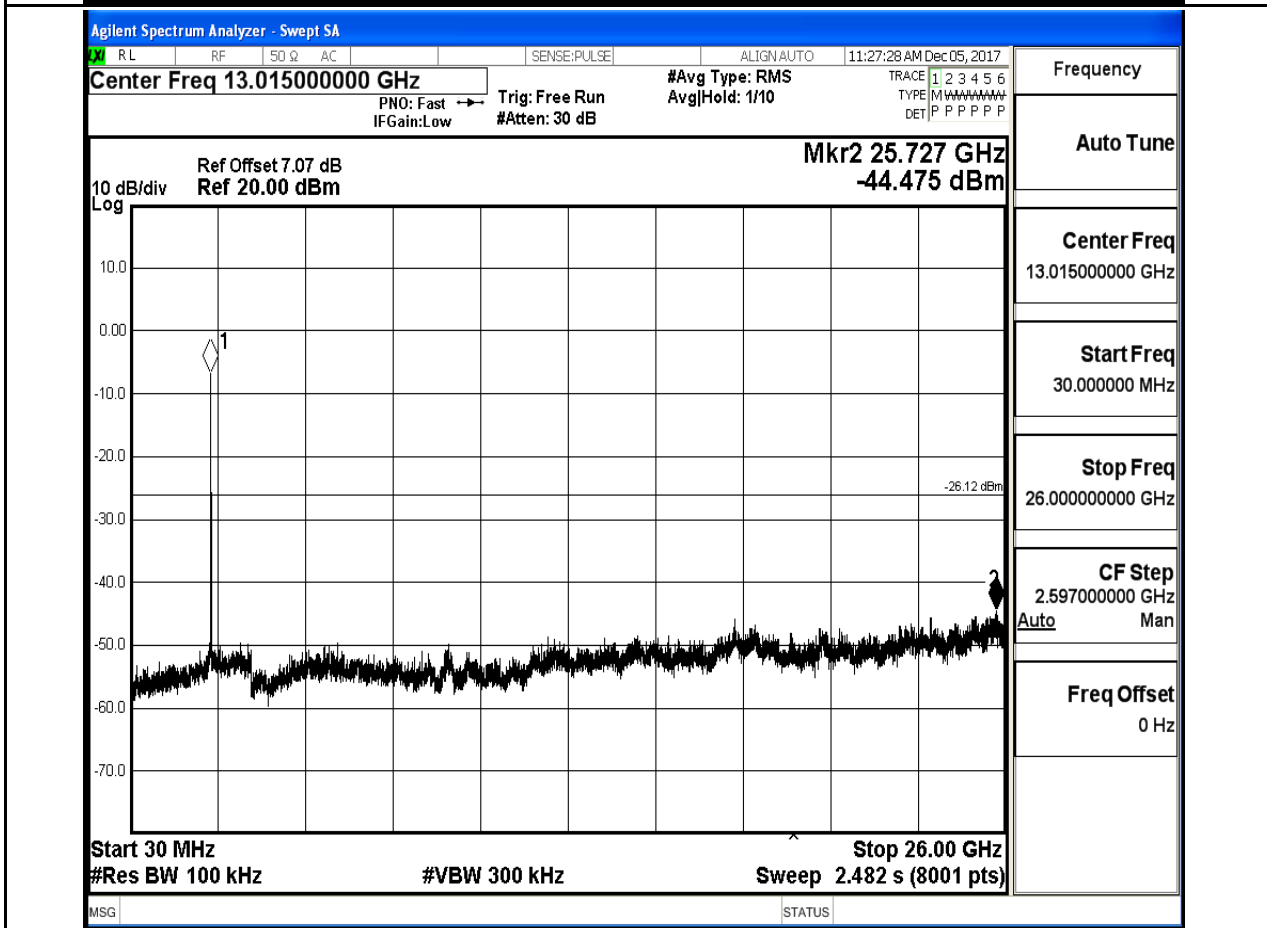
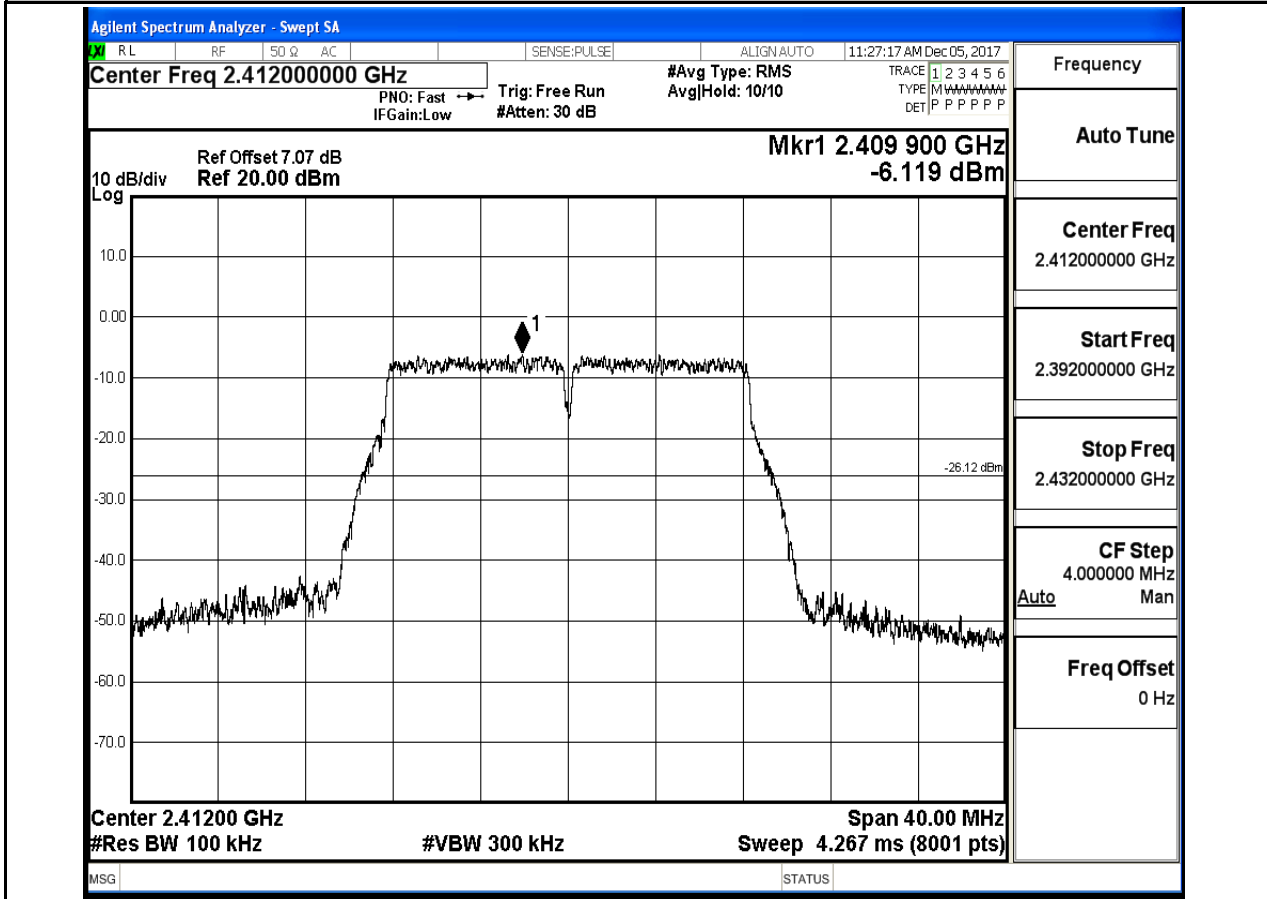
RF Conducted Spurious Emissions_11B_2437_Ant1



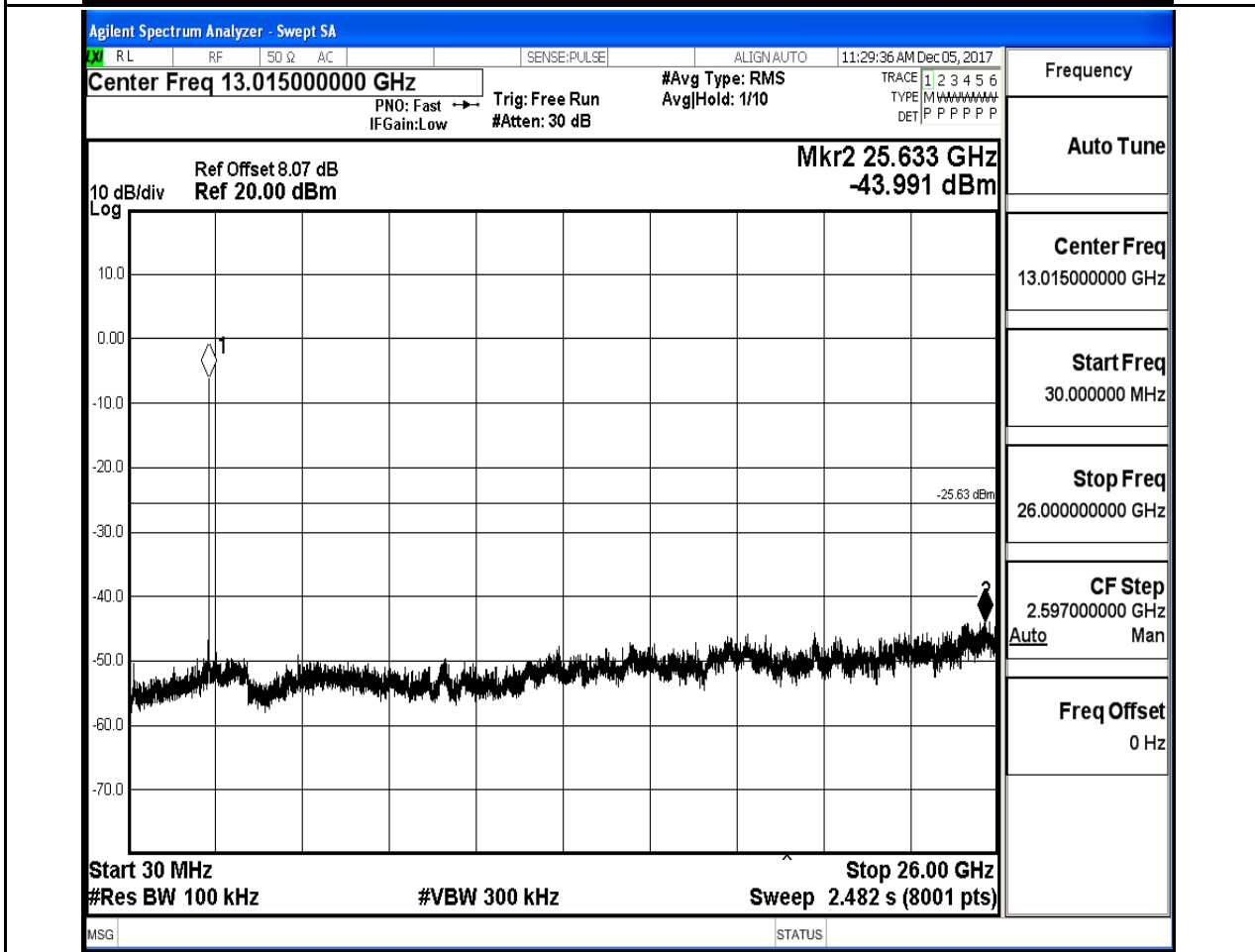
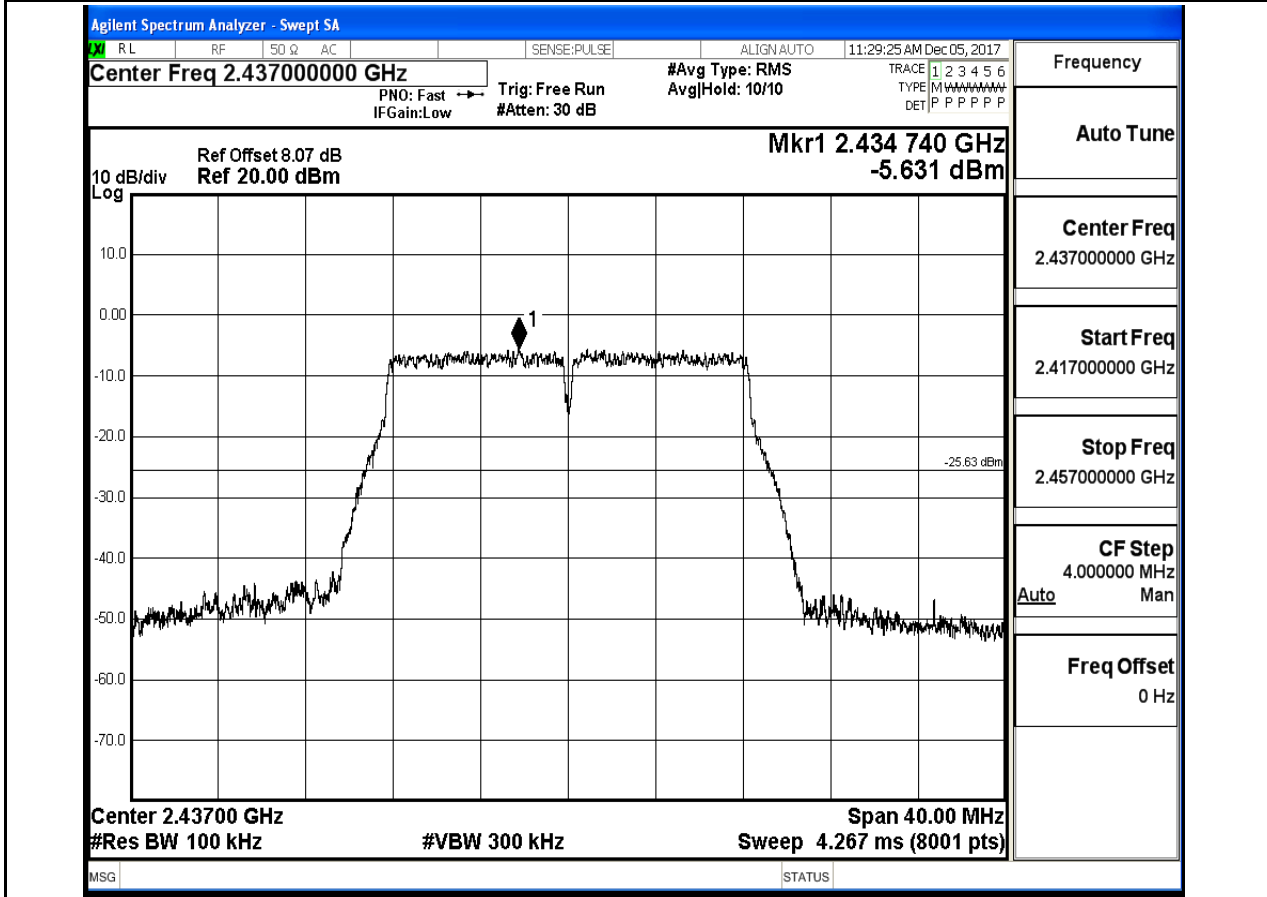
RF Conducted Spurious Emissions_11B_2462_Ant1



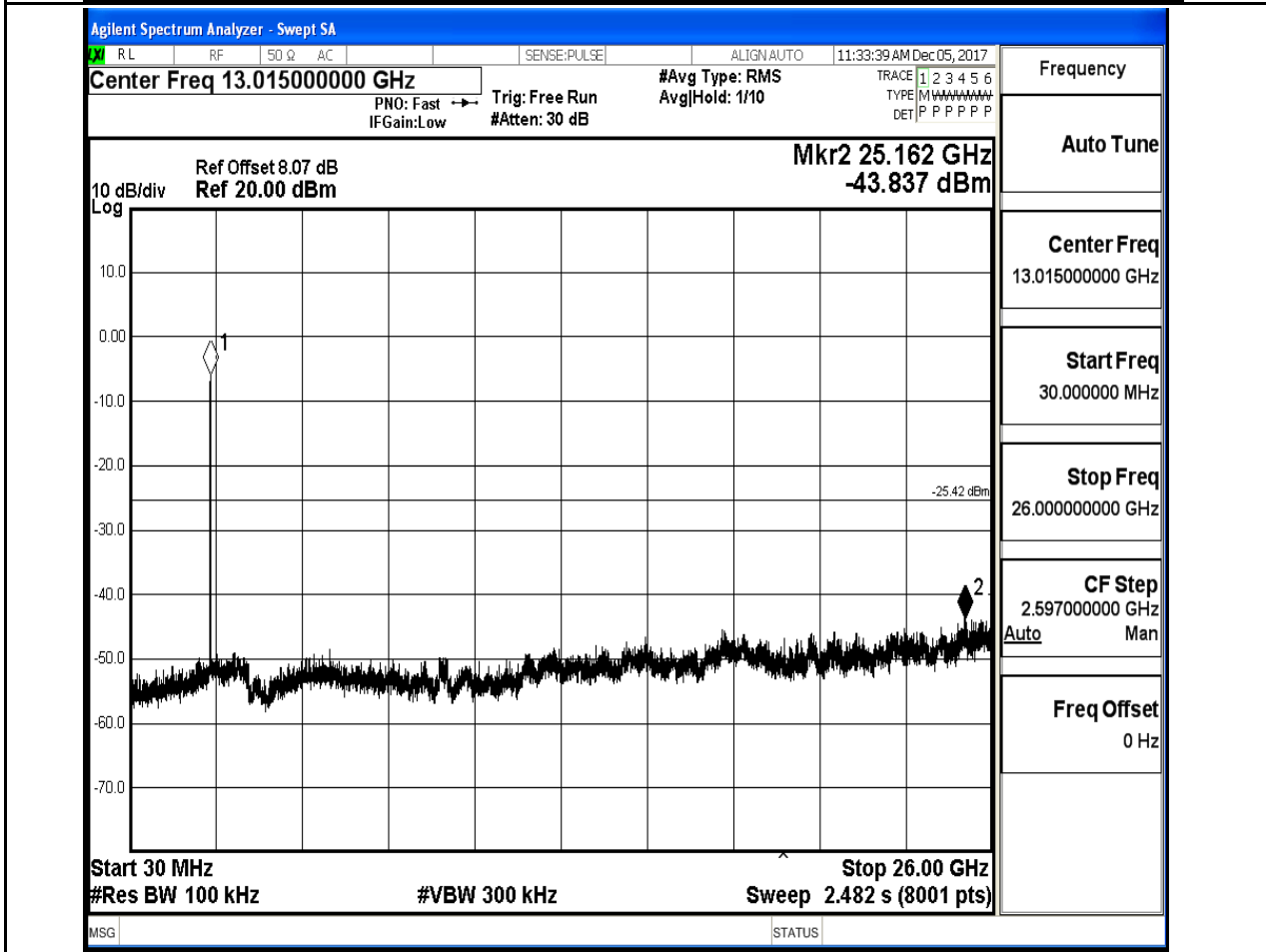
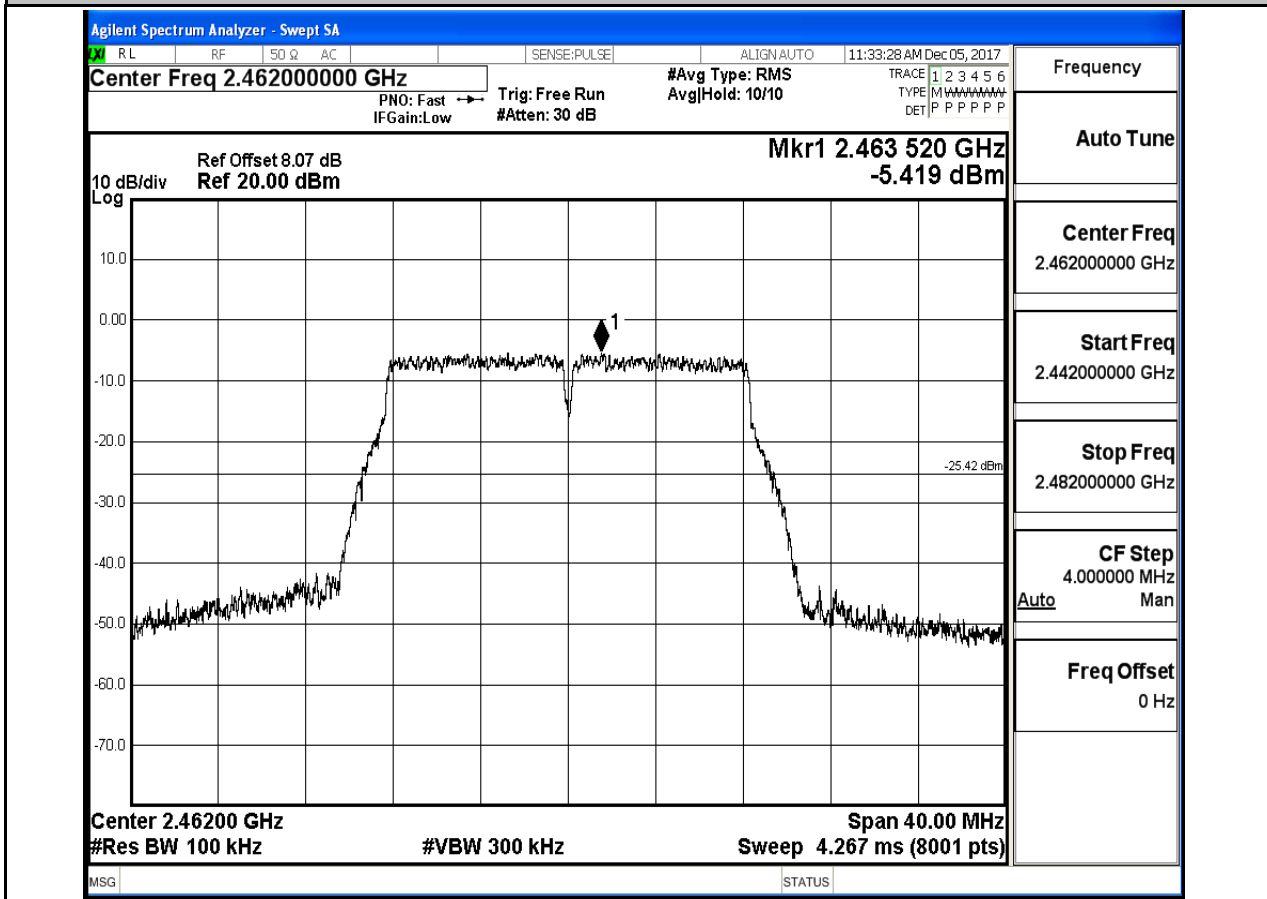
RF Conducted Spurious Emissions_11G_2412_Ant1



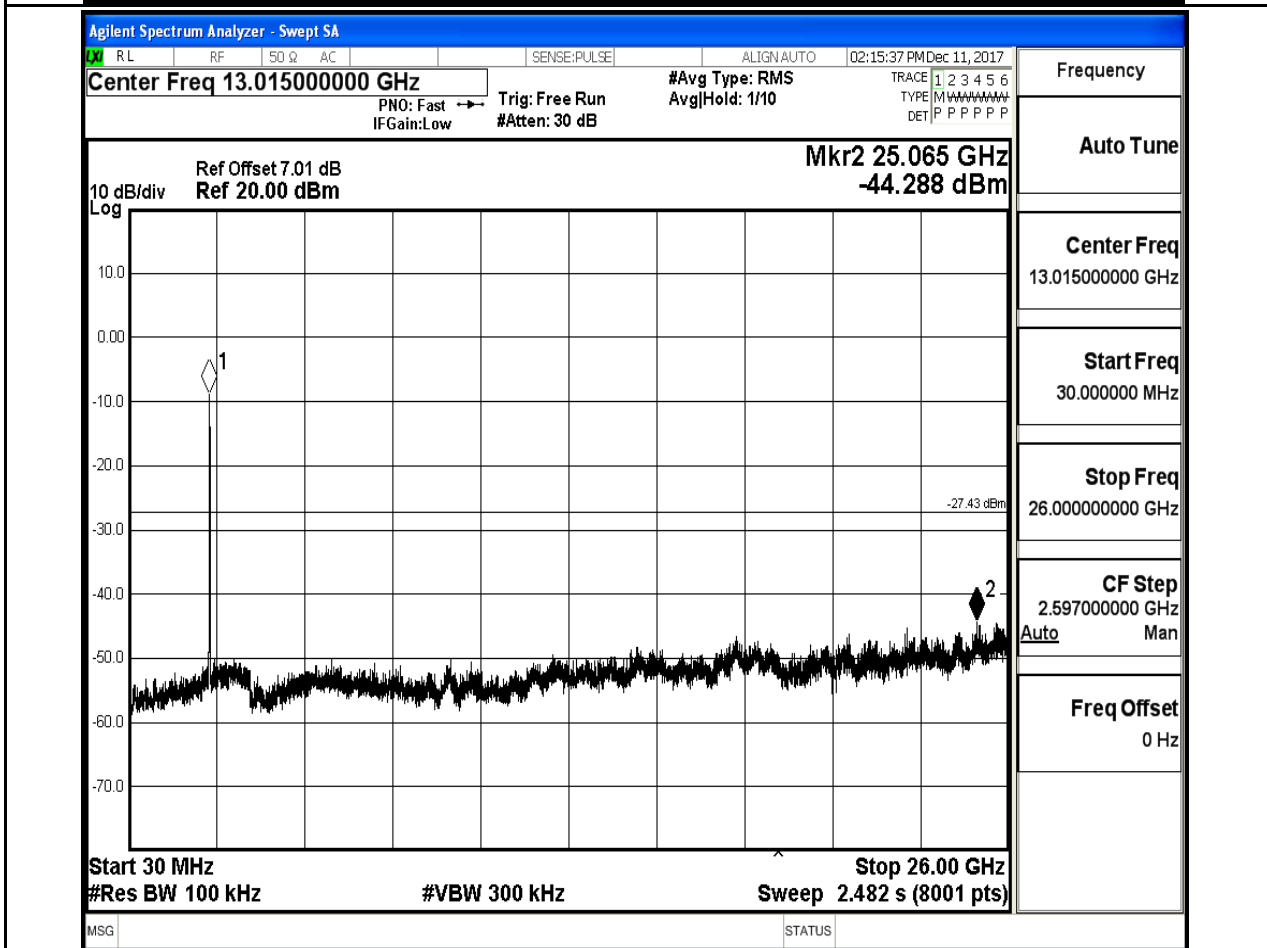
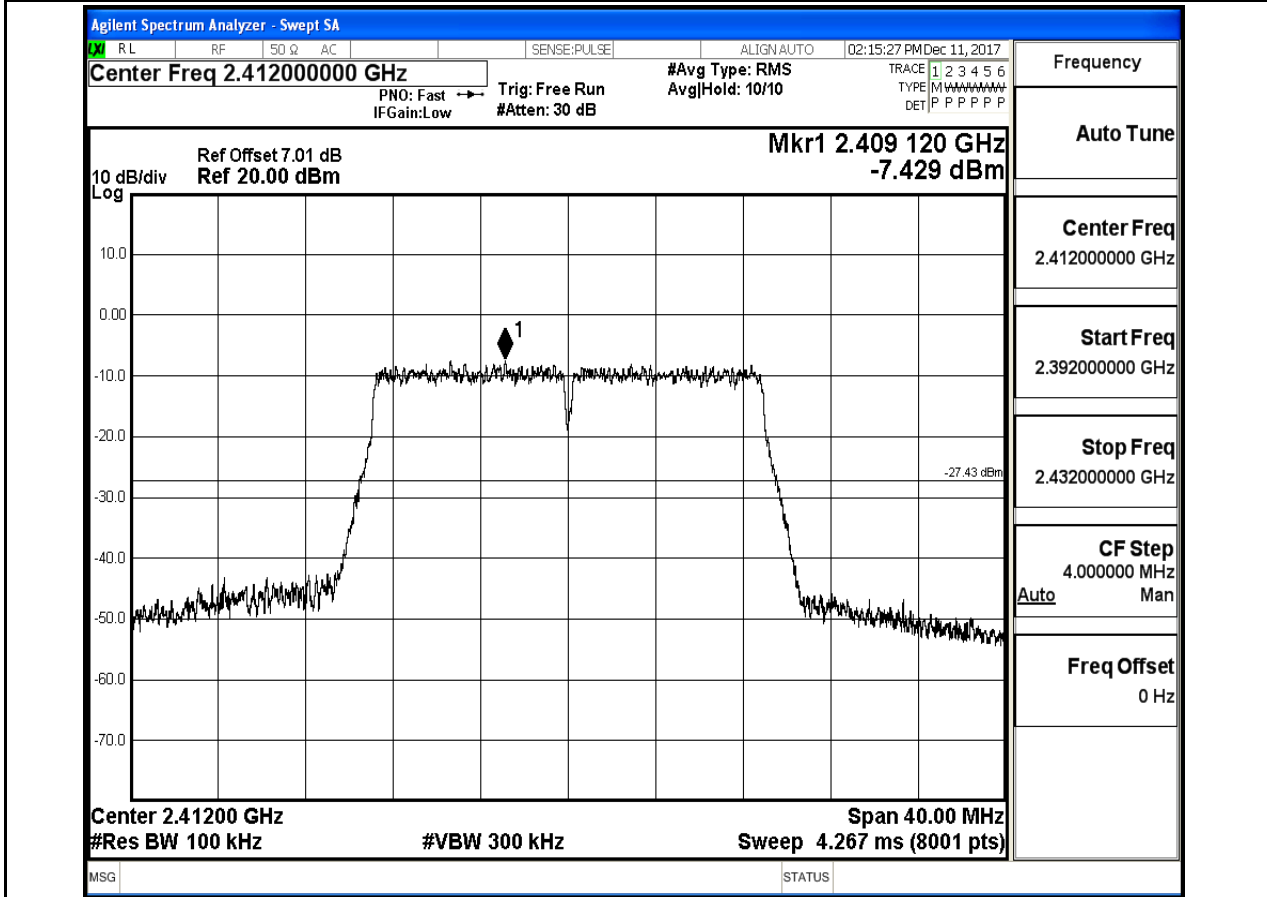
RF Conducted Spurious Emissions_11G_2437_Ant1



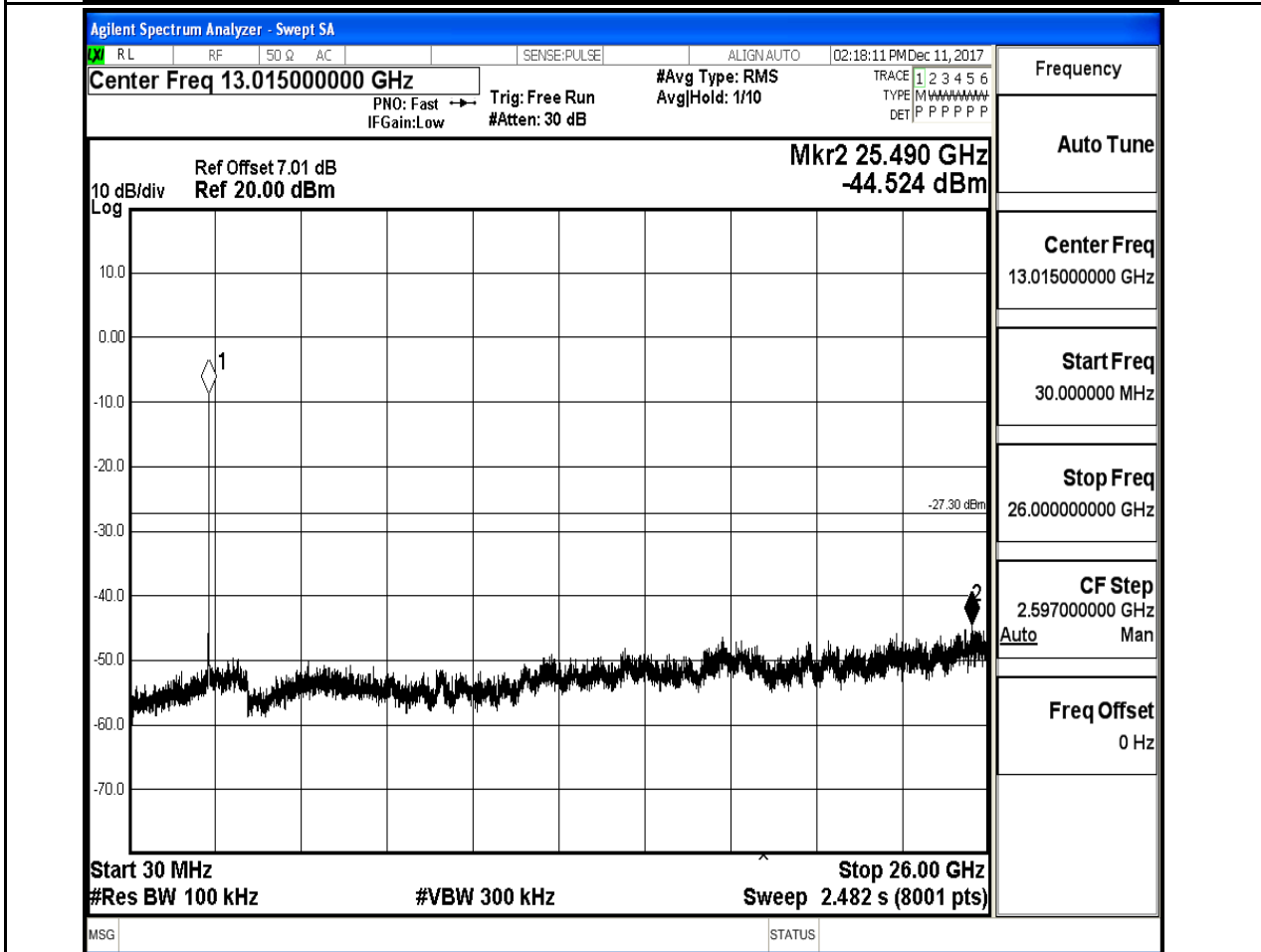
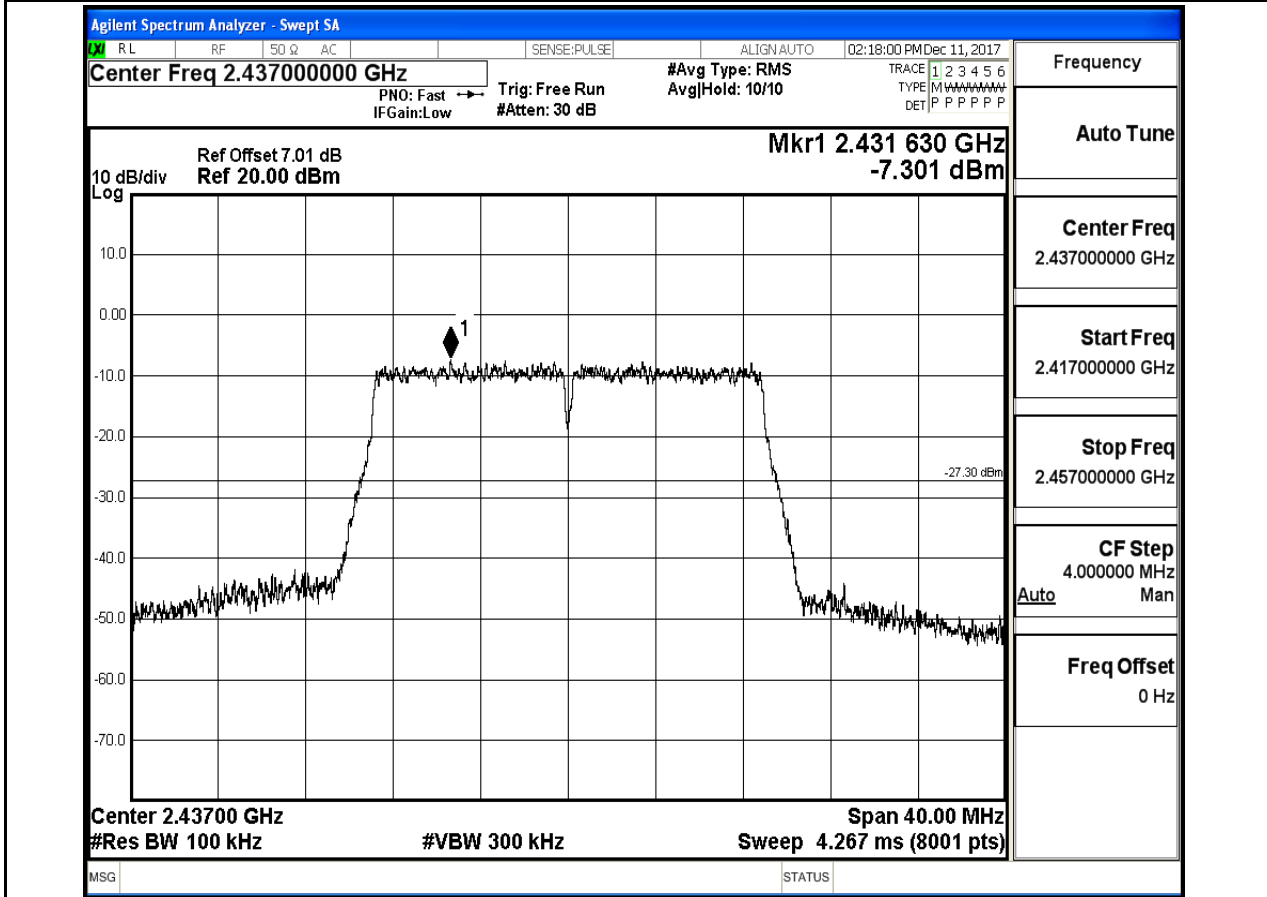
RF Conducted Spurious Emissions_11G_2462_Ant1



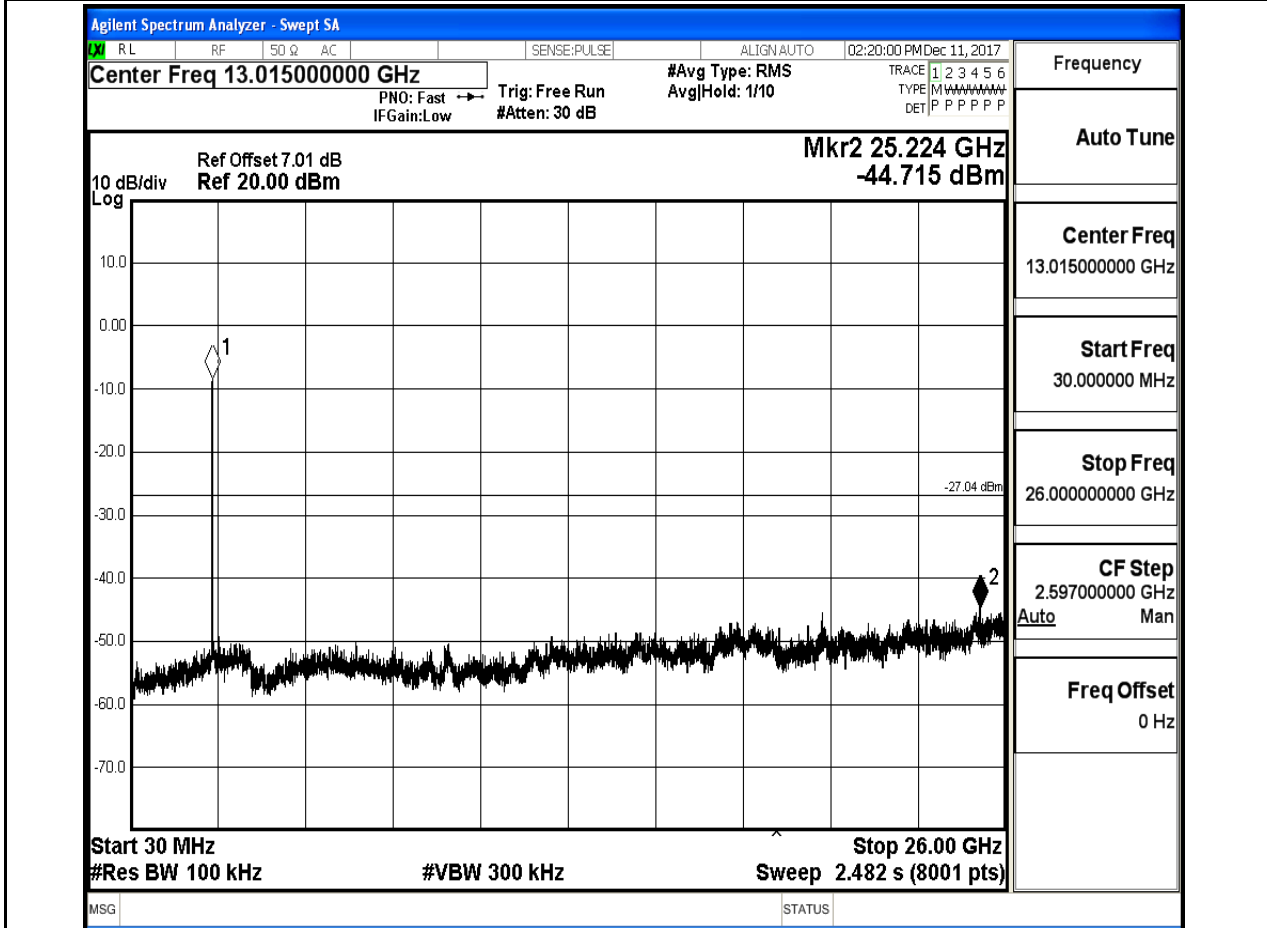
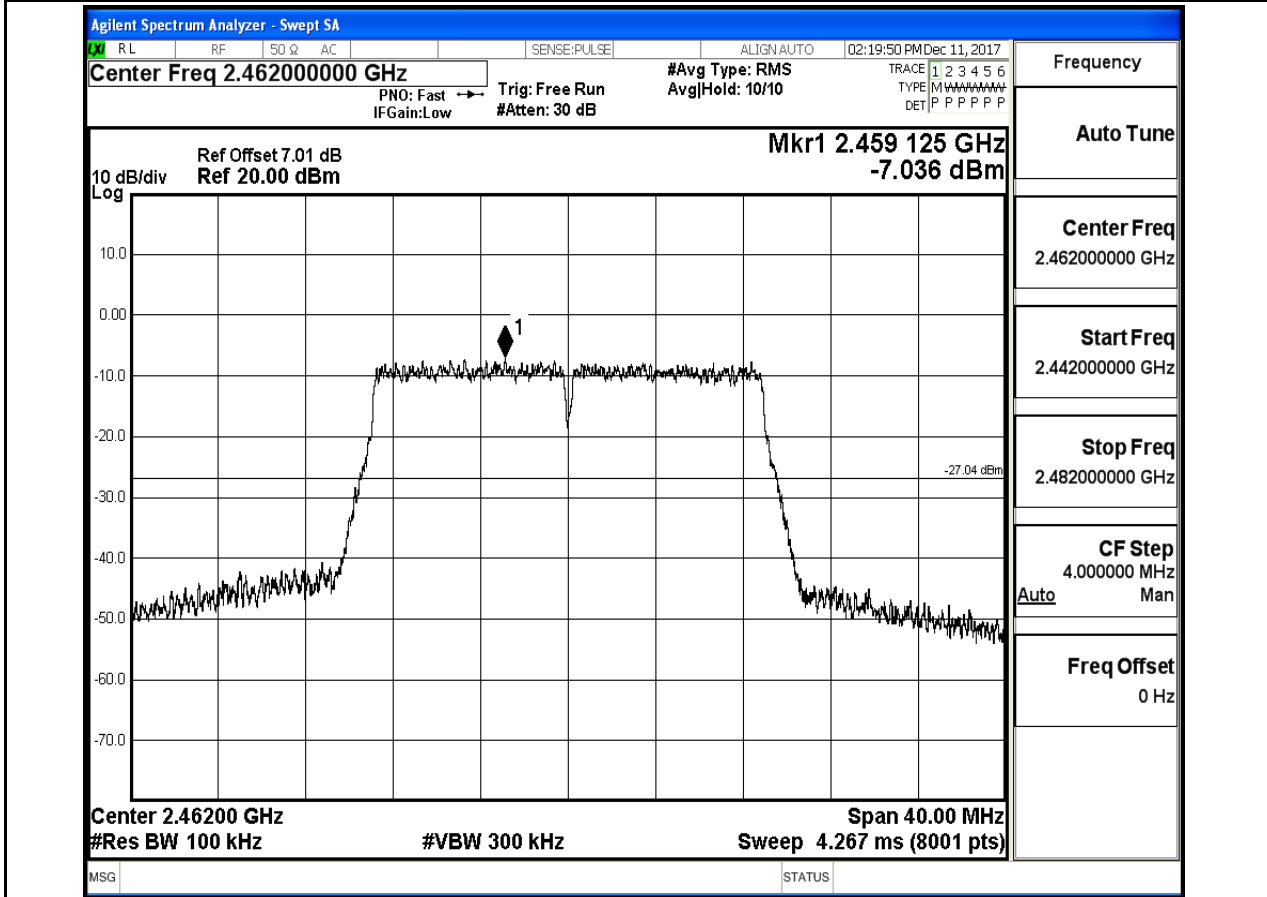
RF Conducted Spurious Emissions_11N20SISO_2412_Ant1



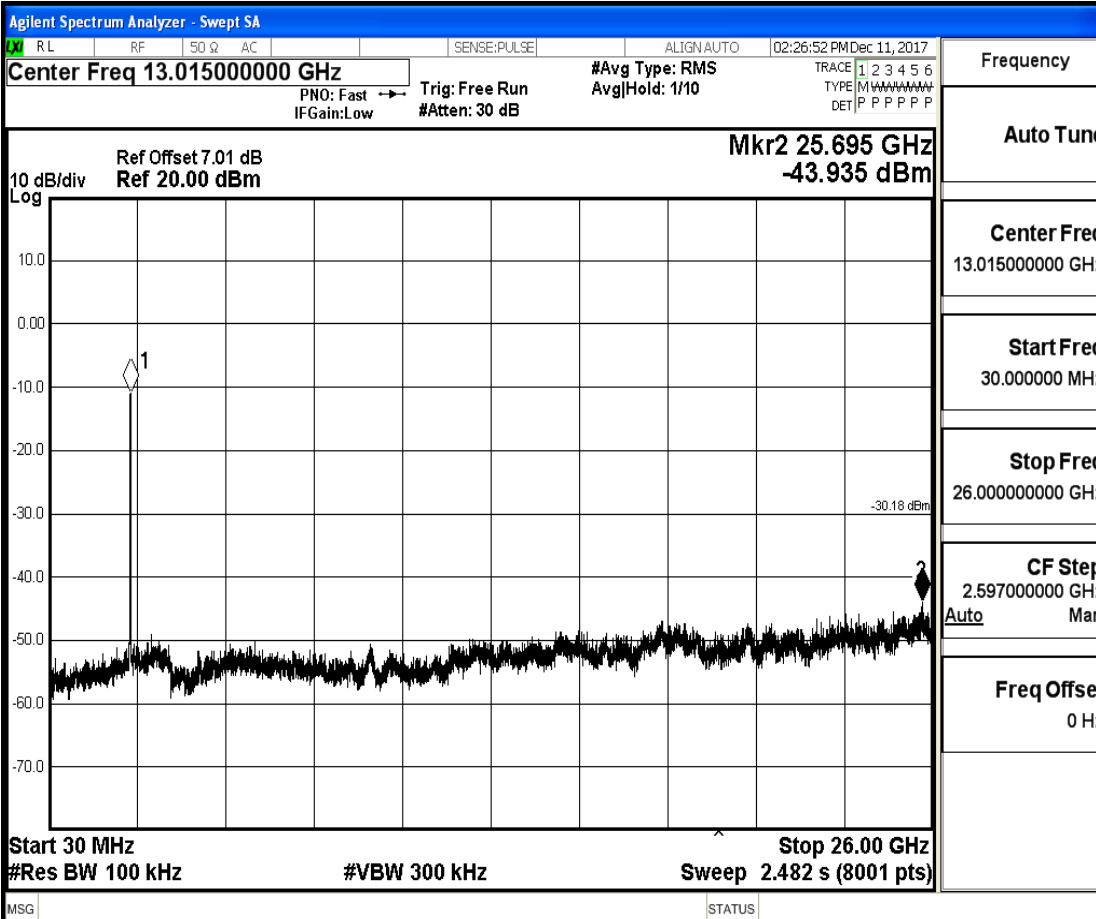
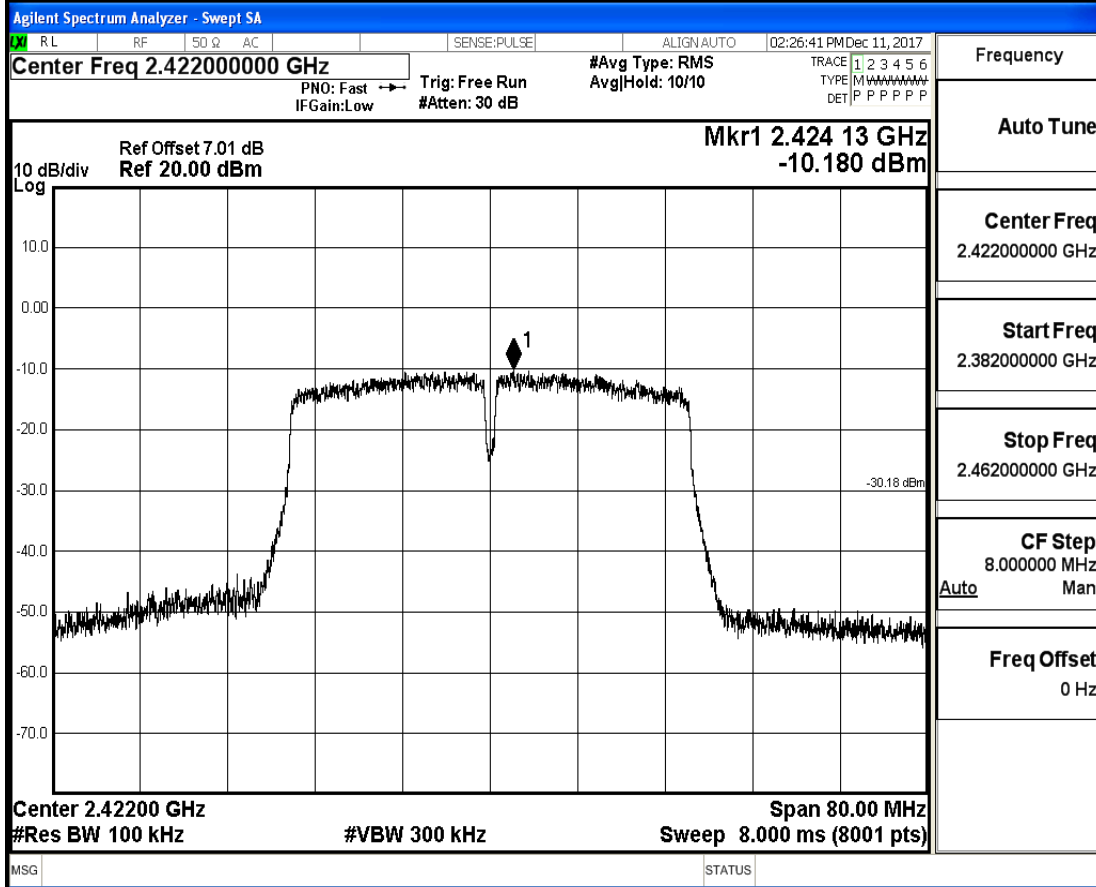
RF Conducted Spurious Emissions_11N20SISO_2437_Ant1



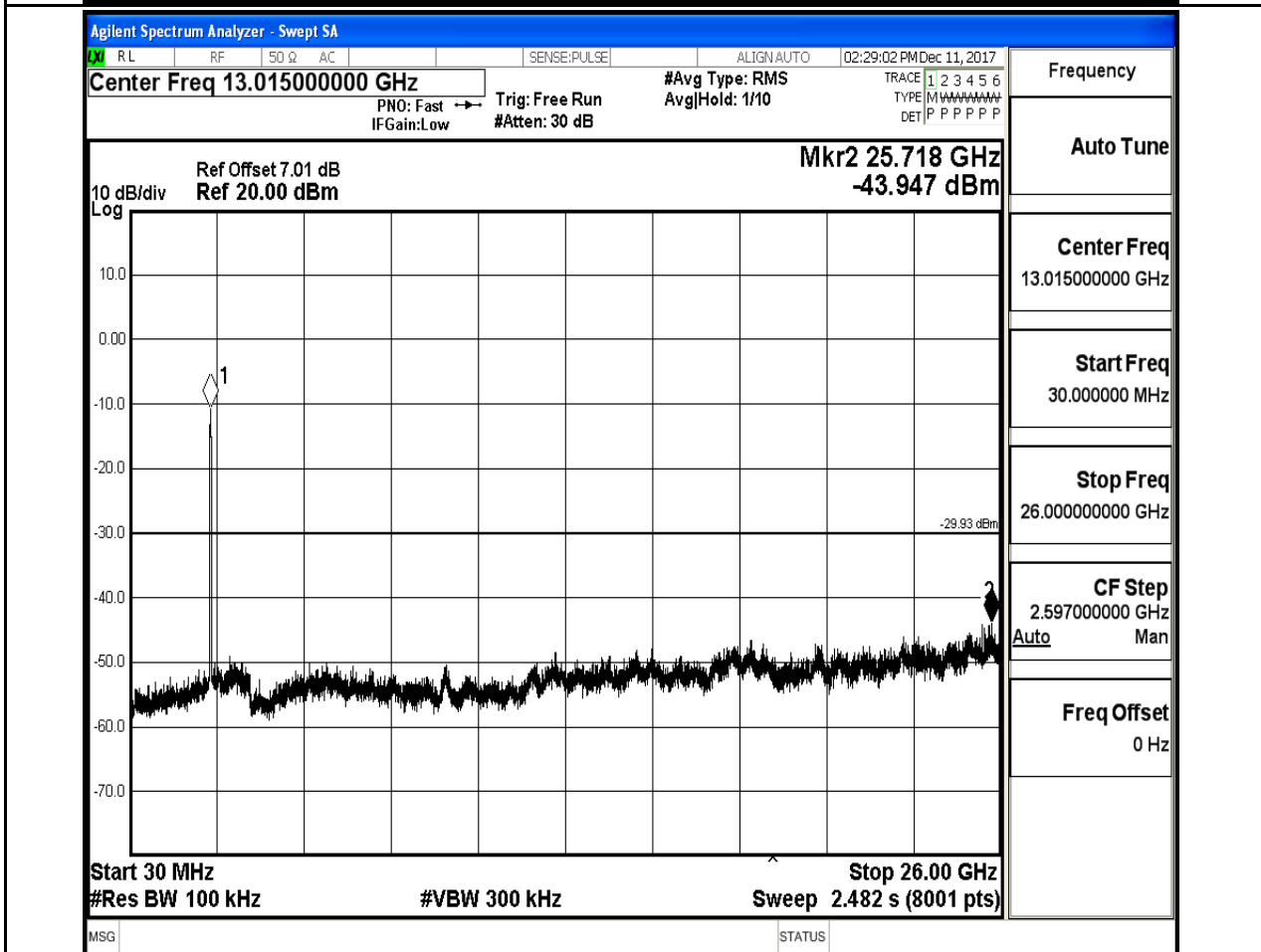
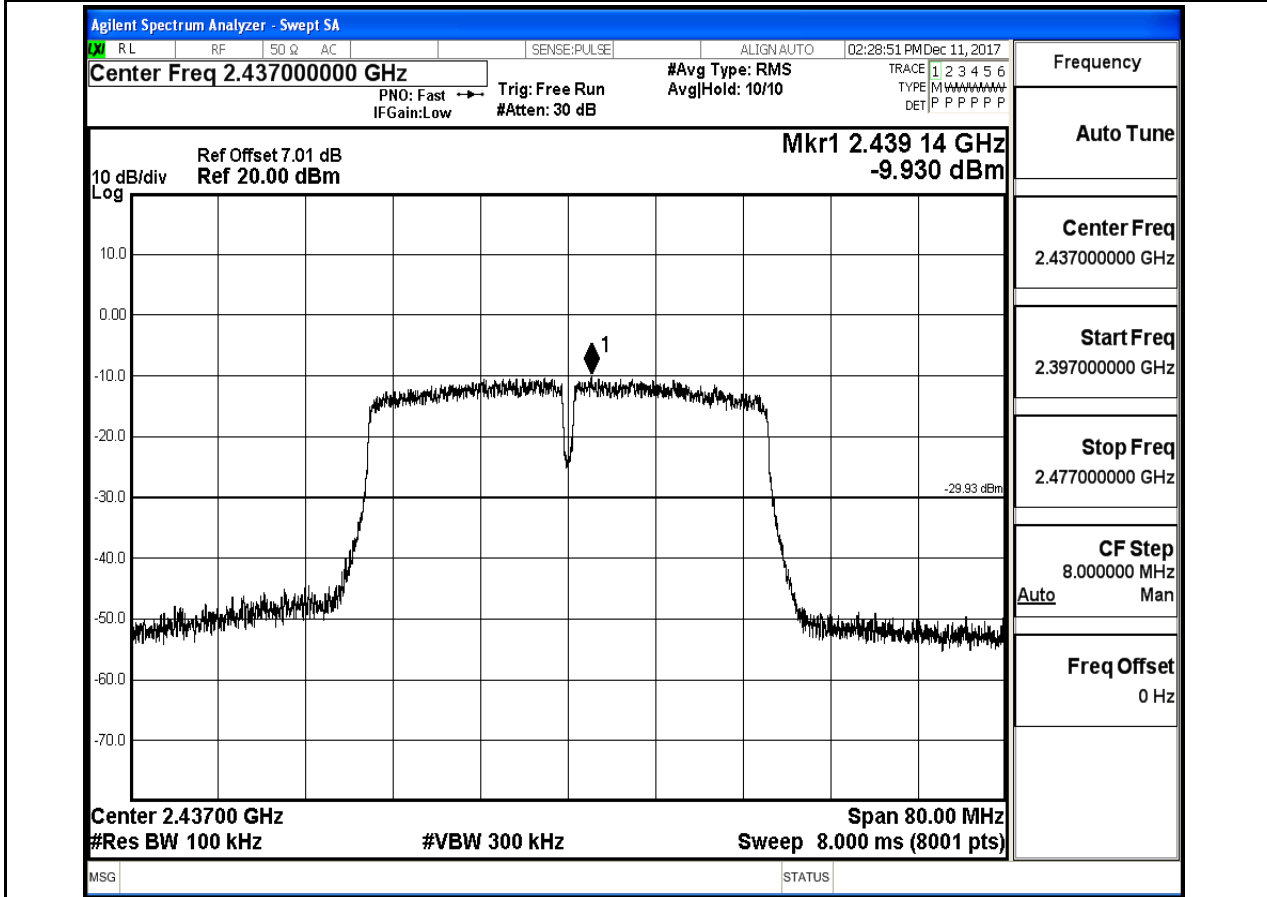
RF Conducted Spurious Emissions_11N20SISO_2462_Ant1



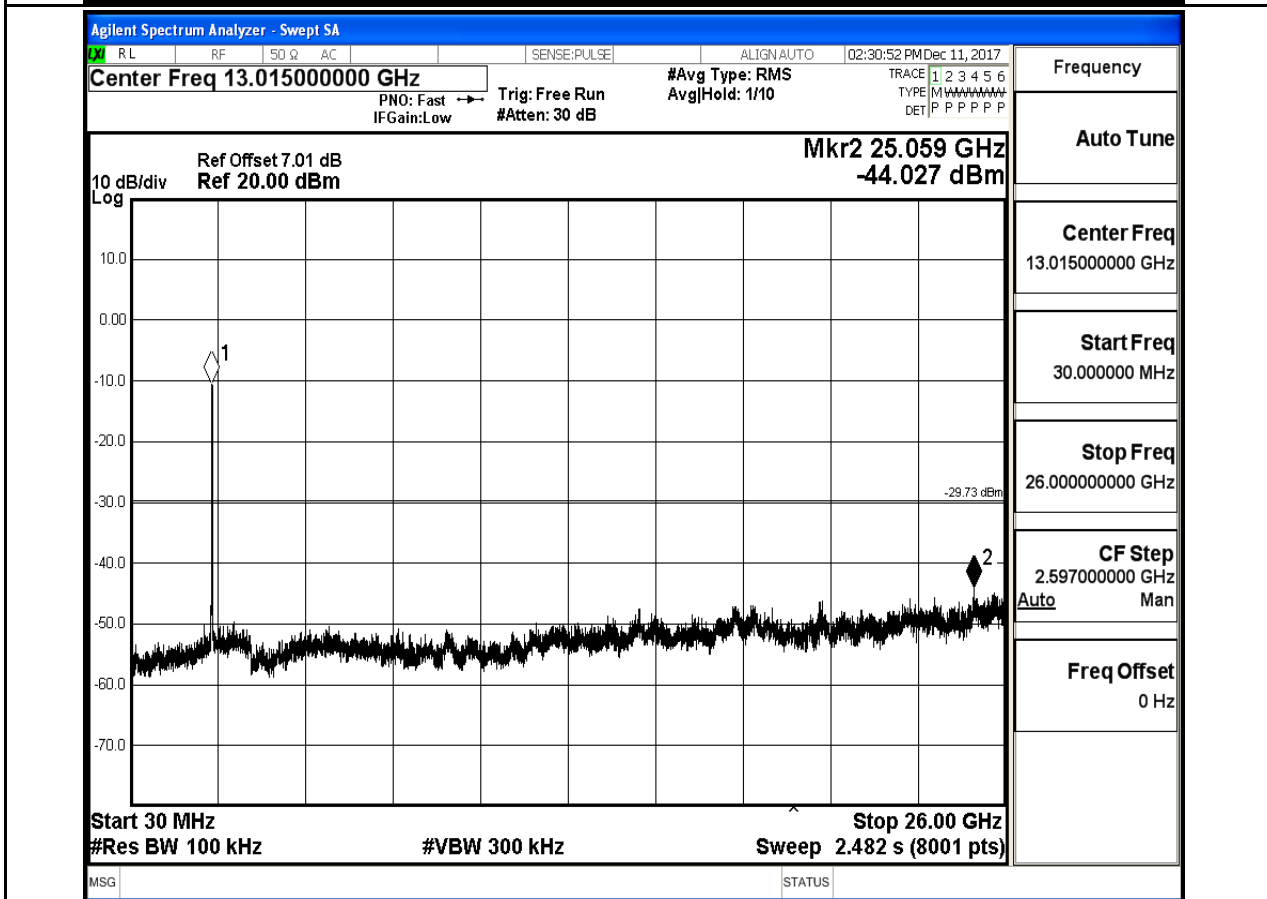
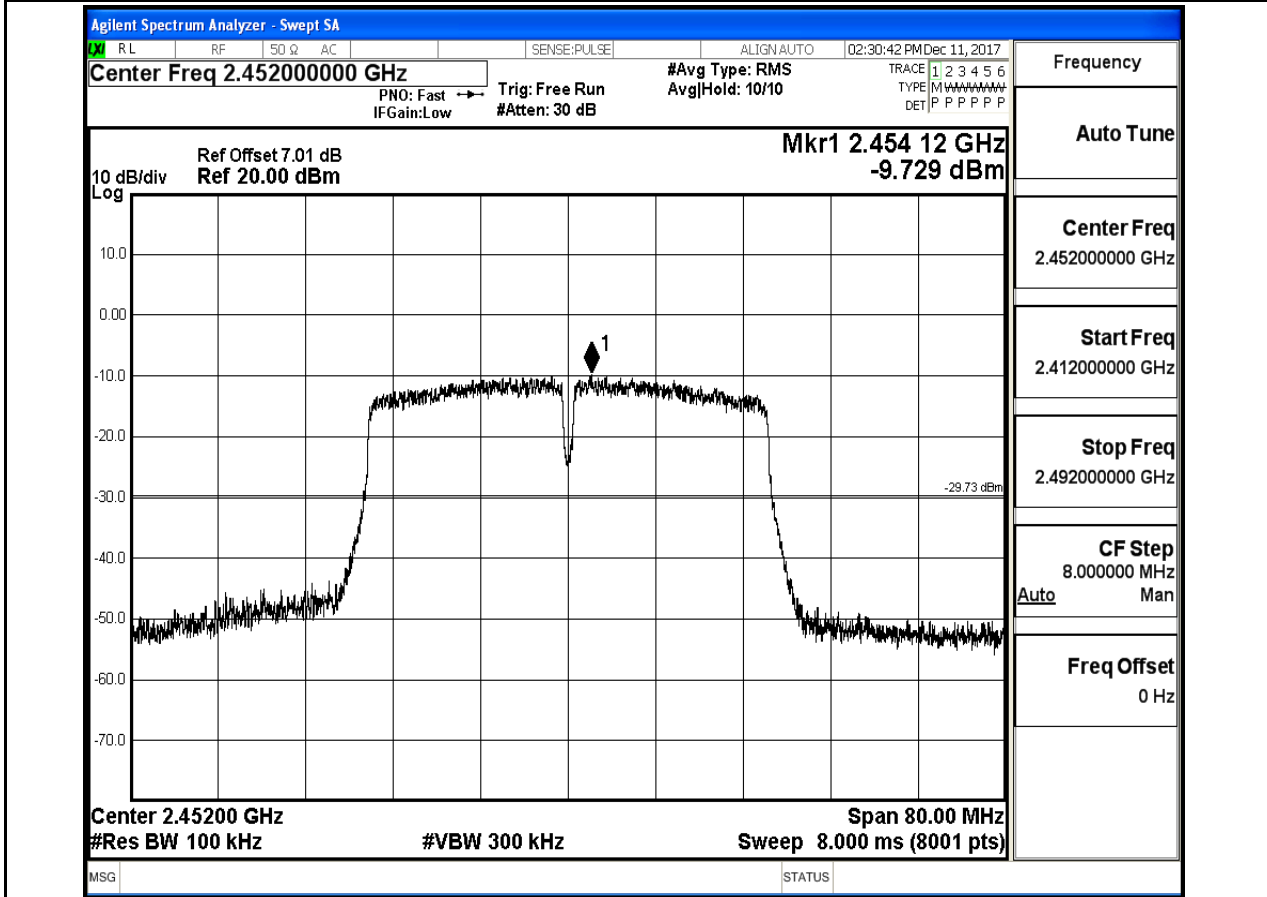
RF Conducted Spurious Emissions_11N40SISO_2422_Ant1



RF Conducted Spurious Emissions_11N40SISO_2437_Ant1



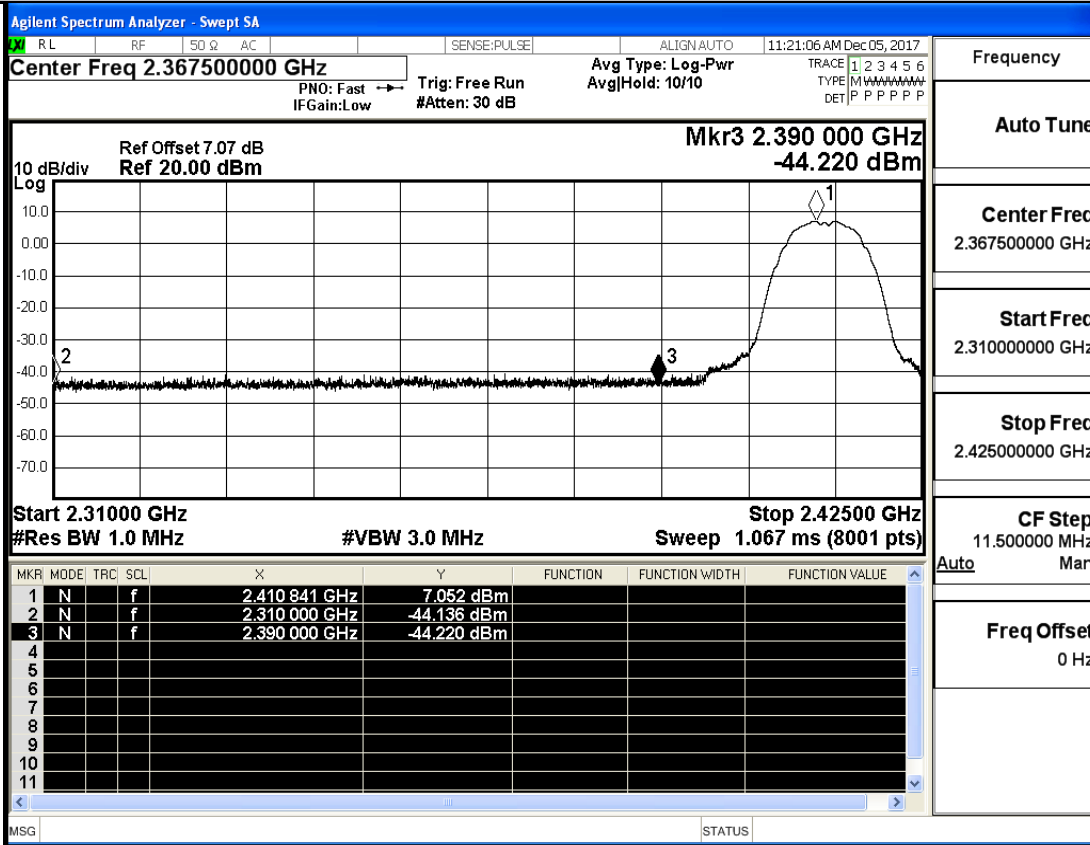
RF Conducted Spurious Emissions_11N40SISO_2452_Ant1



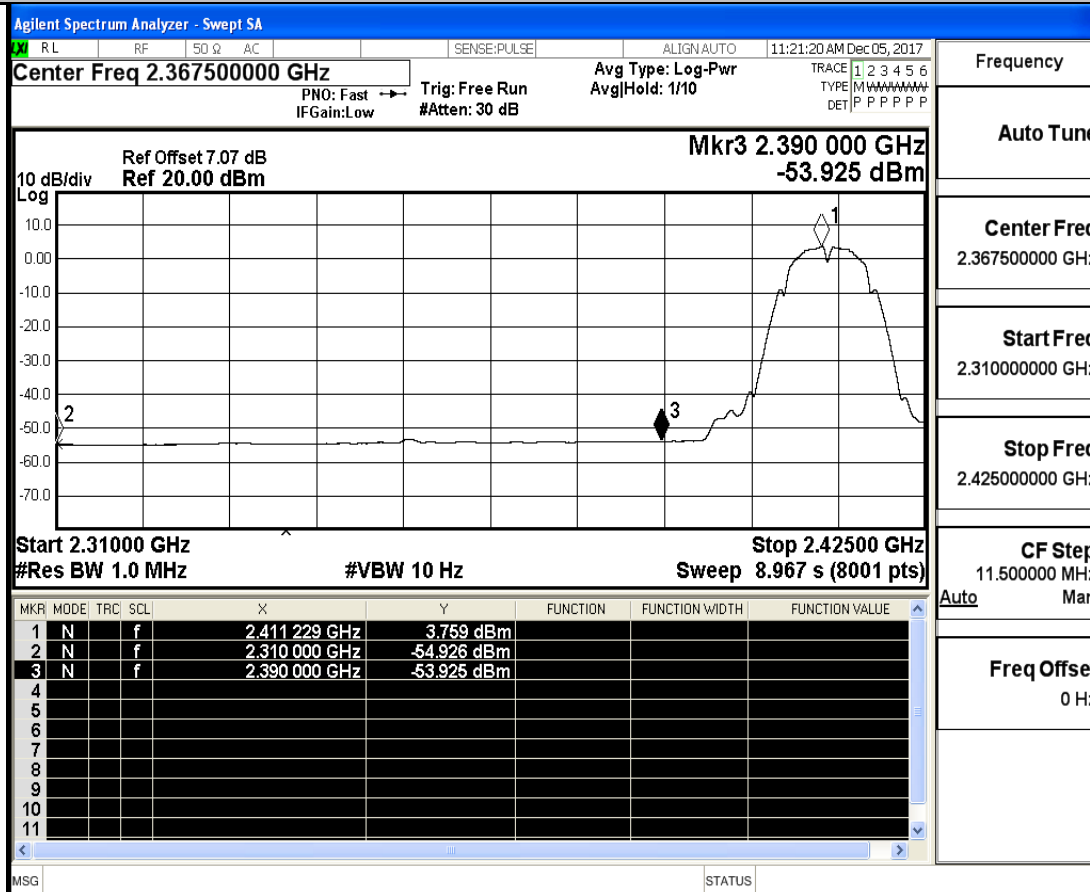
6.Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.14	3	0	54.06	PEAK	74	PASS
11B	2412	Ant1	2310.0	-54.93	3	0	43.27	AV	54	PASS
11B	2412	Ant1	2390.0	-44.22	3	0	53.98	PEAK	74	PASS
11B	2412	Ant1	2390.0	-53.93	3	0	44.27	AV	54	PASS
11B	2462	Ant1	2483.5	-42.05	3	0	56.15	PEAK	74	PASS
11B	2462	Ant1	2483.5	-51.88	3	0	46.32	AV	54	PASS
11B	2462	Ant1	2500.0	-41.18	3	0	57.02	PEAK	74	PASS
11B	2462	Ant1	2500.0	-52.91	3	0	45.29	AV	54	PASS
11G	2412	Ant1	2310.0	-44.15	3	0	54.05	PEAK	74	PASS
11G	2412	Ant1	2310.0	-54.87	3	0	43.33	AV	54	PASS
11G	2412	Ant1	2390.0	-41.21	3	0	56.99	PEAK	74	PASS
11G	2412	Ant1	2390.0	-52.59	3	0	45.61	AV	54	PASS
11G	2462	Ant1	2483.5	-41.62	3	0	56.58	PEAK	74	PASS
11G	2462	Ant1	2483.5	-52.13	3	0	46.07	AV	54	PASS
11G	2462	Ant1	2500.0	-41.72	3	0	56.48	PEAK	74	PASS
11G	2462	Ant1	2500.0	-52.55	3	0	45.65	AV	54	PASS
11N20SISO	2412	Ant1	2310.0	-44.92	3	0	53.28	PEAK	74	PASS
11N20SISO	2412	Ant1	2310.0	-54.88	3	0	43.32	AV	54	PASS
11N20SISO	2412	Ant1	2390.0	-41.55	3	0	56.65	PEAK	74	PASS
11N20SISO	2412	Ant1	2390.0	-52.42	3	0	45.78	AV	54	PASS
11N20SISO	2462	Ant1	2483.5	-42.14	3	0	56.06	PEAK	74	PASS
11N20SISO	2462	Ant1	2483.5	-52.10	3	0	46.10	AV	54	PASS
11N20SISO	2462	Ant1	2500.0	-42.31	3	0	55.89	PEAK	74	PASS
11N20SISO	2462	Ant1	2500.0	-52.54	3	0	45.66	AV	54	PASS
11N40SISO	2422	Ant1	2310.0	-43.34	3	0	54.86	PEAK	74	PASS
11N40SISO	2422	Ant1	2310.0	-53.90	3	0	44.30	AV	54	PASS
11N40SISO	2422	Ant1	2390.0	-38.66	3	0	59.54	PEAK	74	PASS
11N40SISO	2422	Ant1	2390.0	-50.25	3	0	47.95	AV	54	PASS
11N40SISO	2452	Ant1	2483.5	-41.01	3	0	57.19	PEAK	74	PASS
11N40SISO	2452	Ant1	2483.5	-51.65	3	0	46.55	AV	54	PASS
11N40SISO	2452	Ant1	2500.0	-43.08	3	0	55.12	PEAK	74	PASS
11N40SISO	2452	Ant1	2500.0	-52.47	3	0	45.73	AV	54	PASS

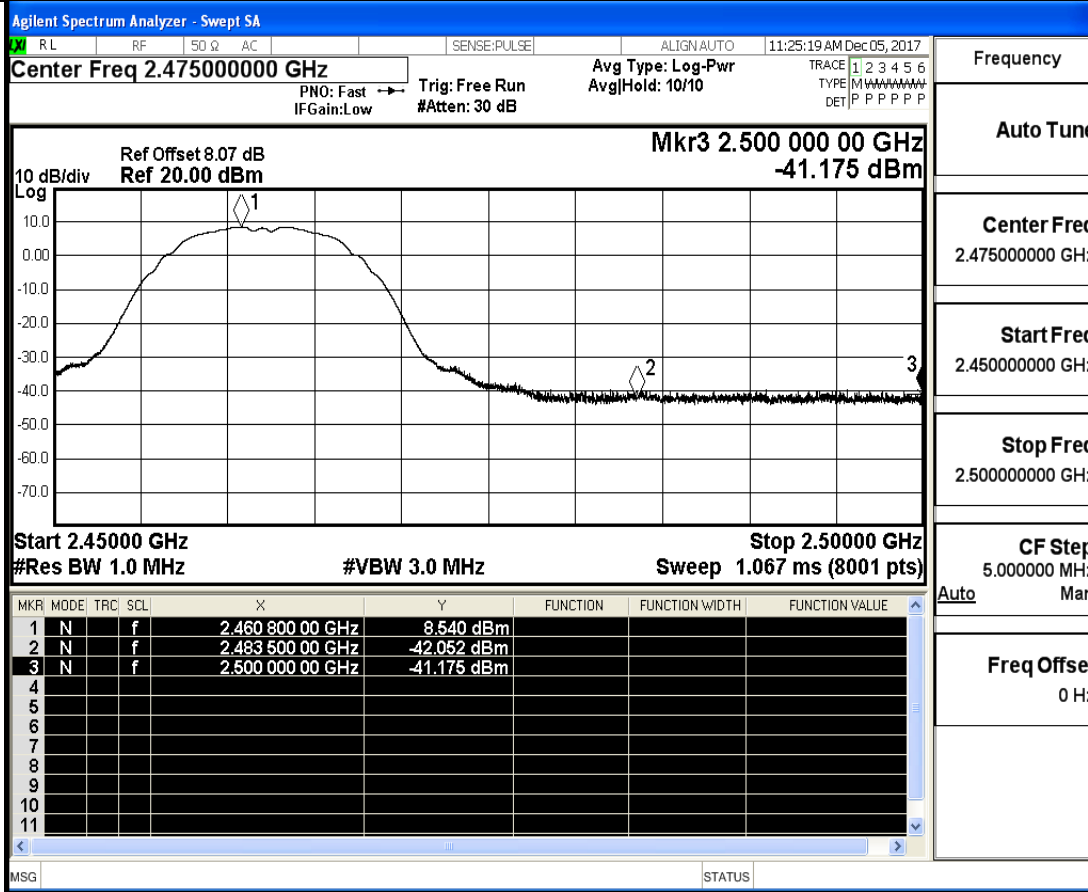
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



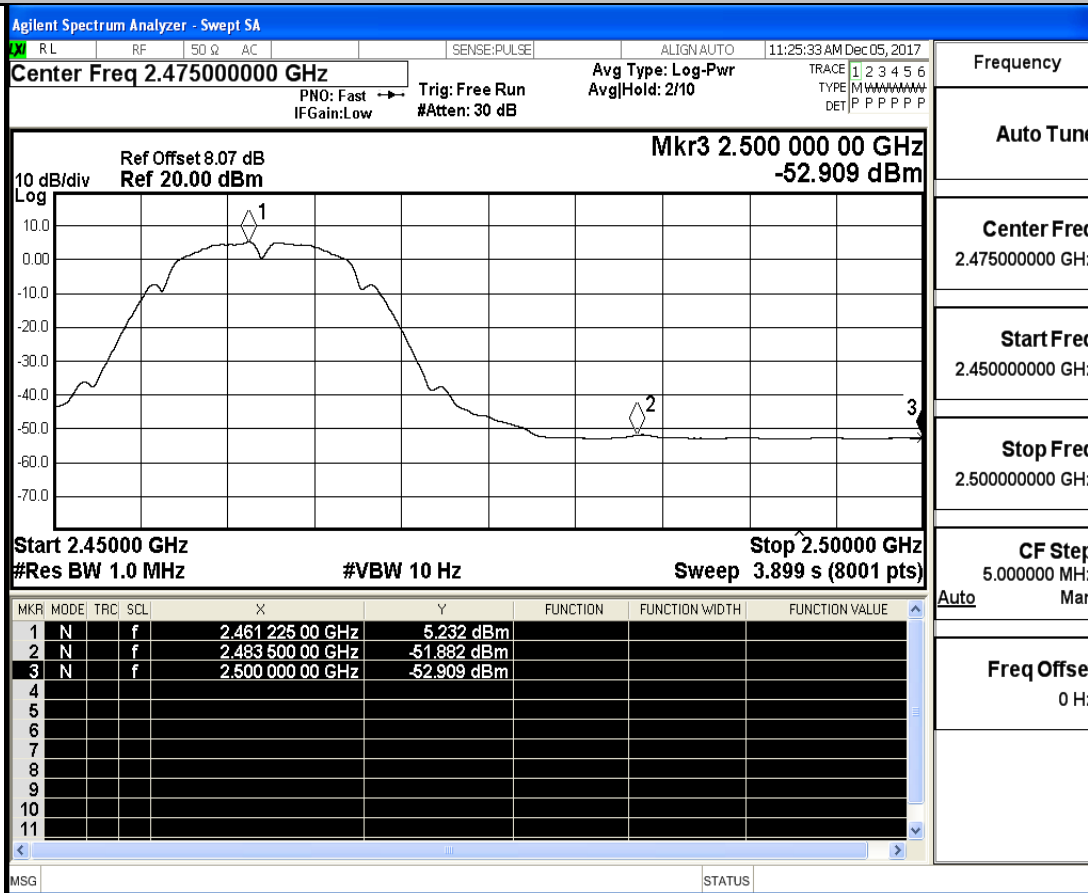
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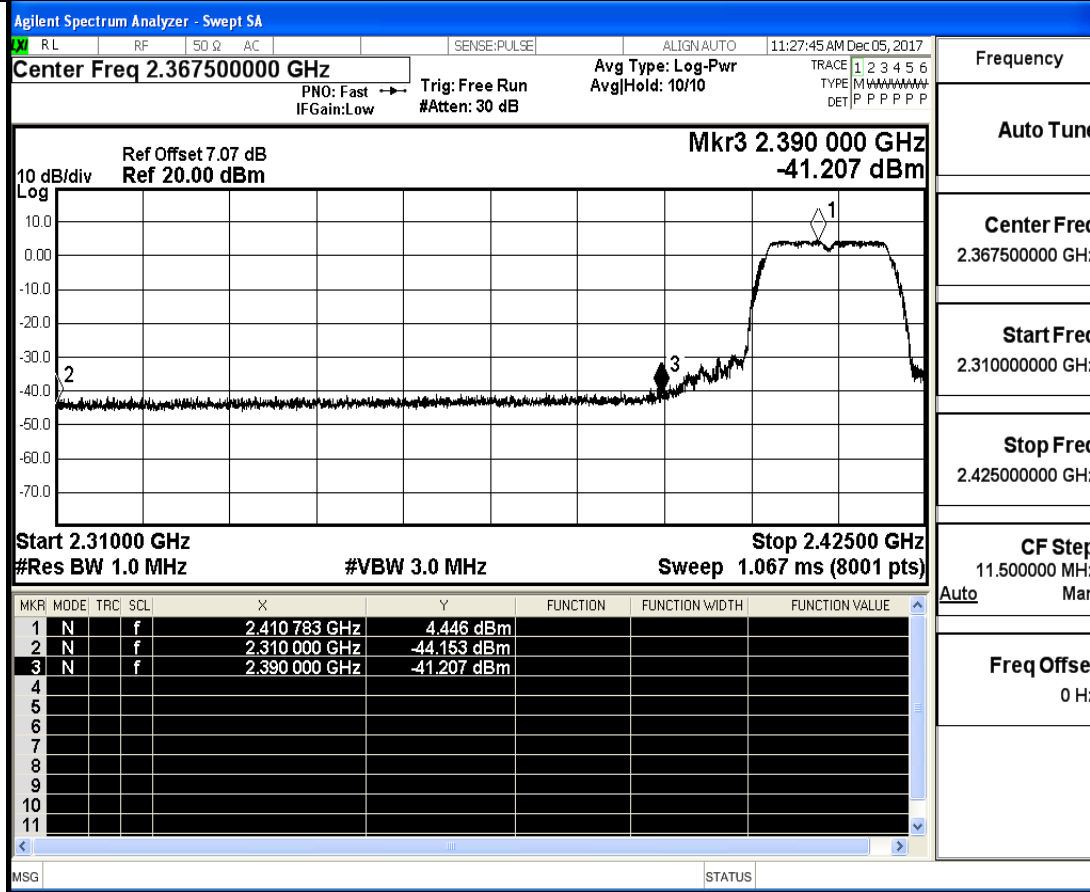
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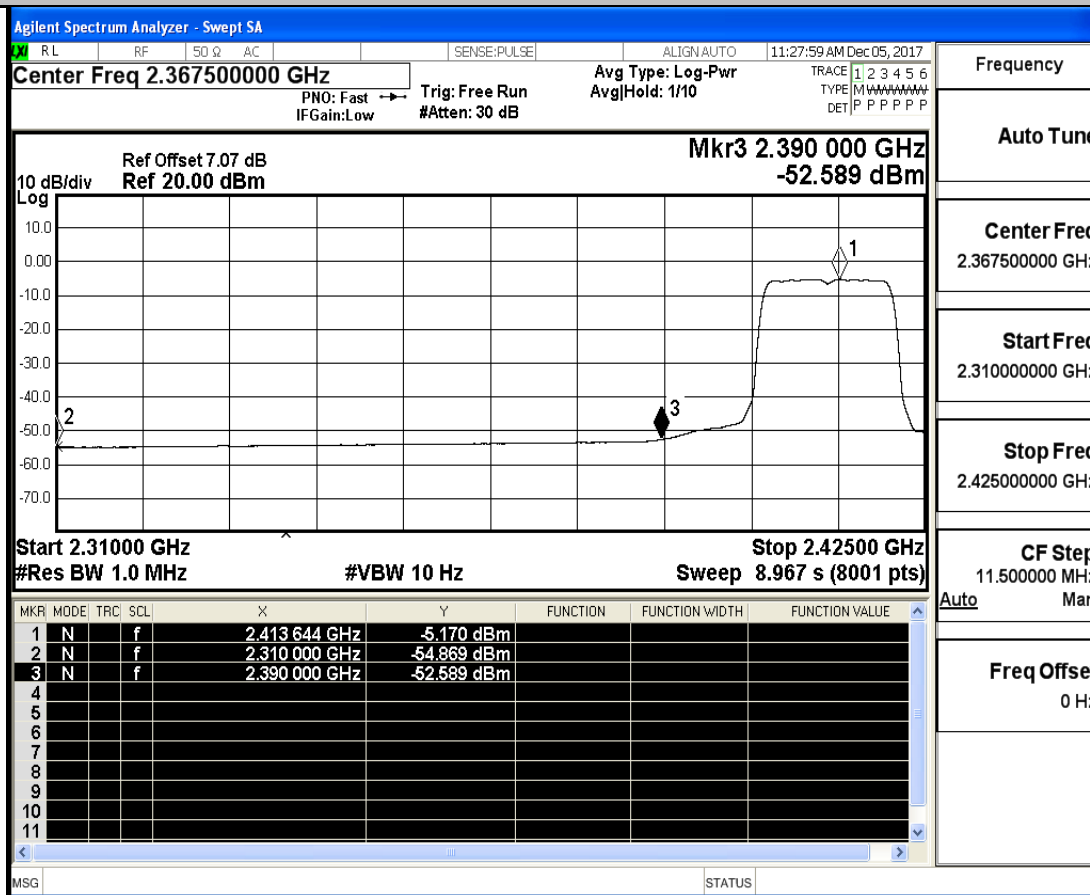
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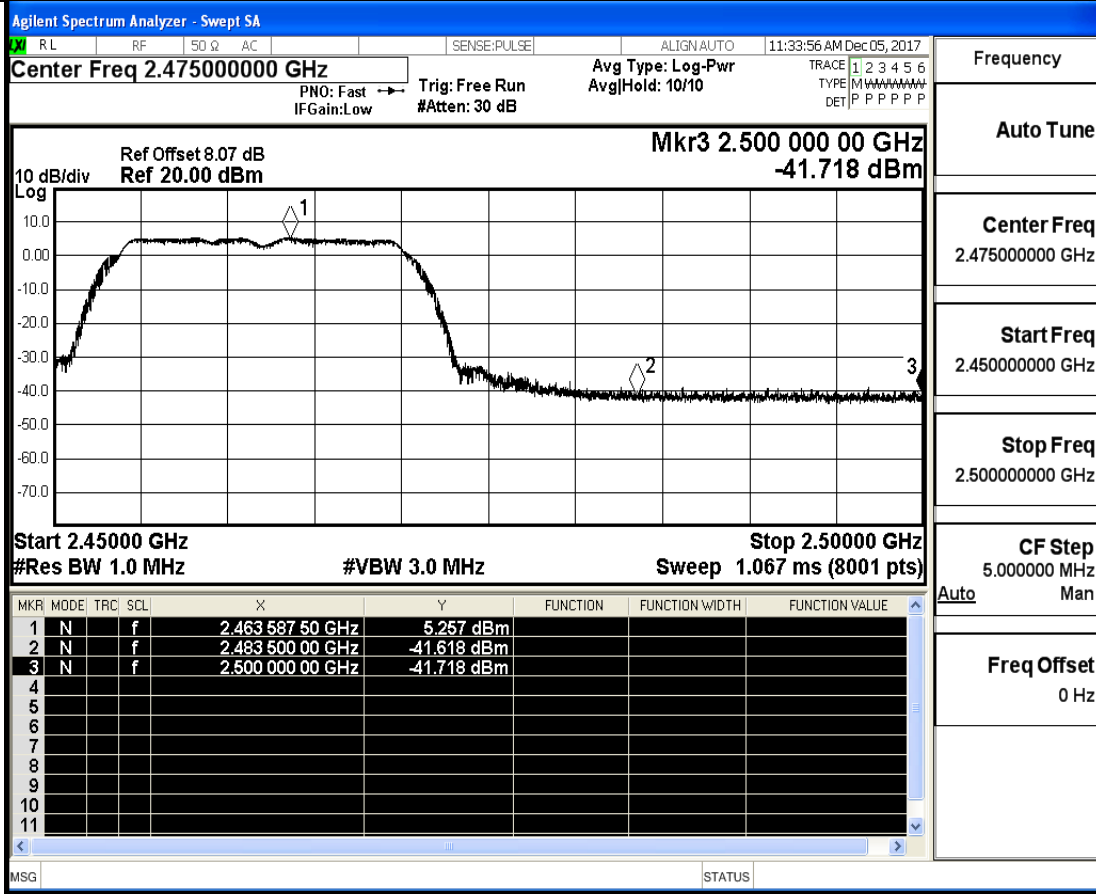
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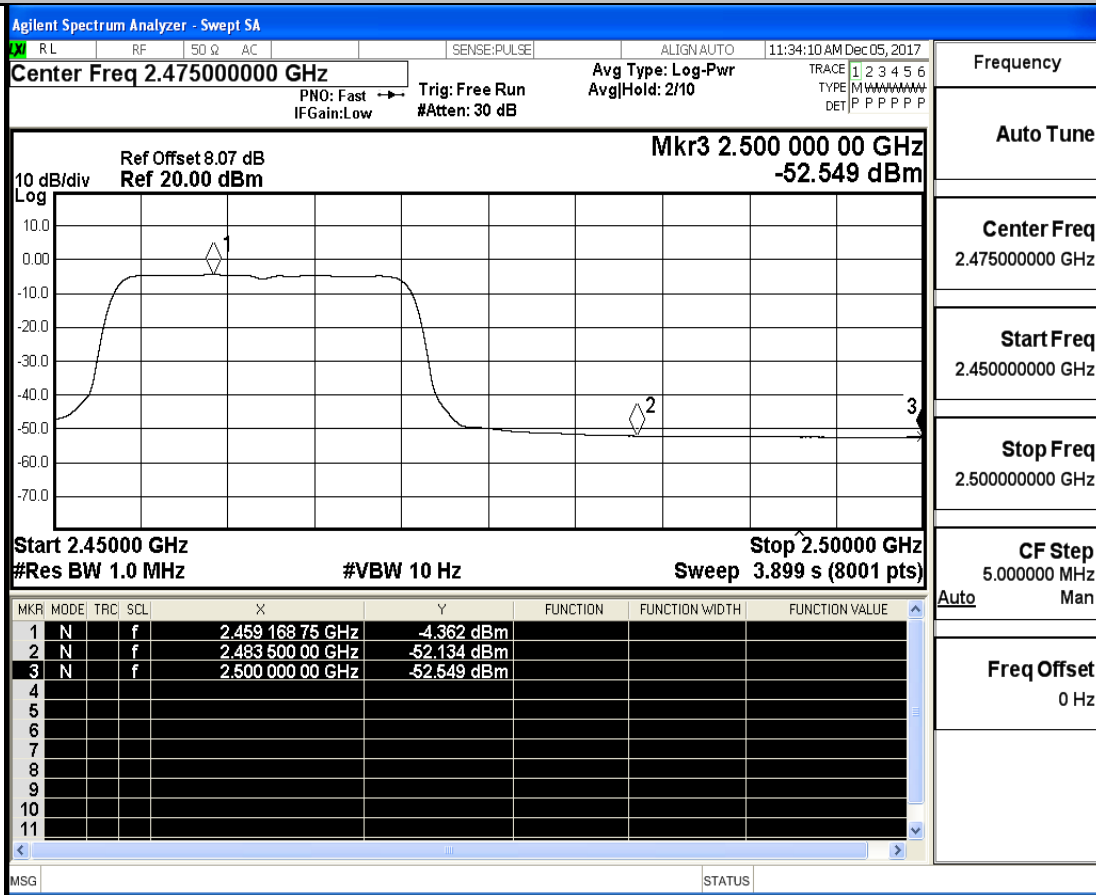
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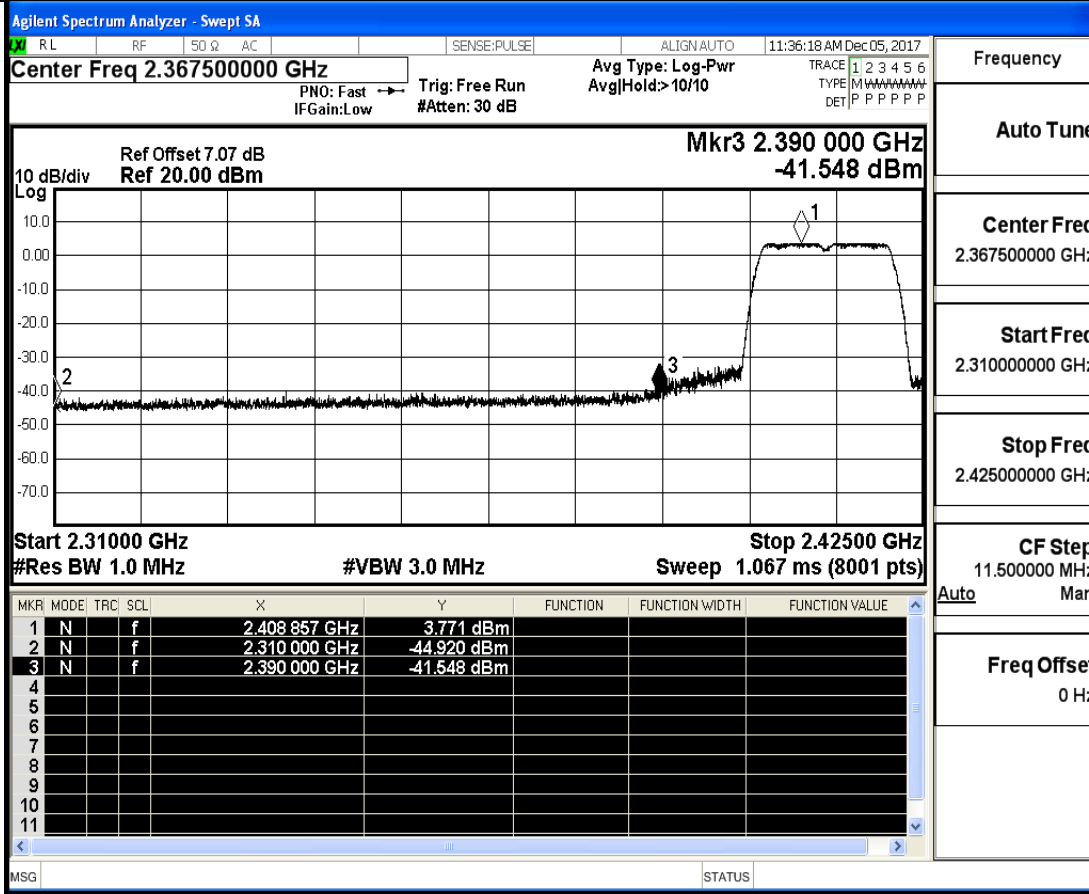
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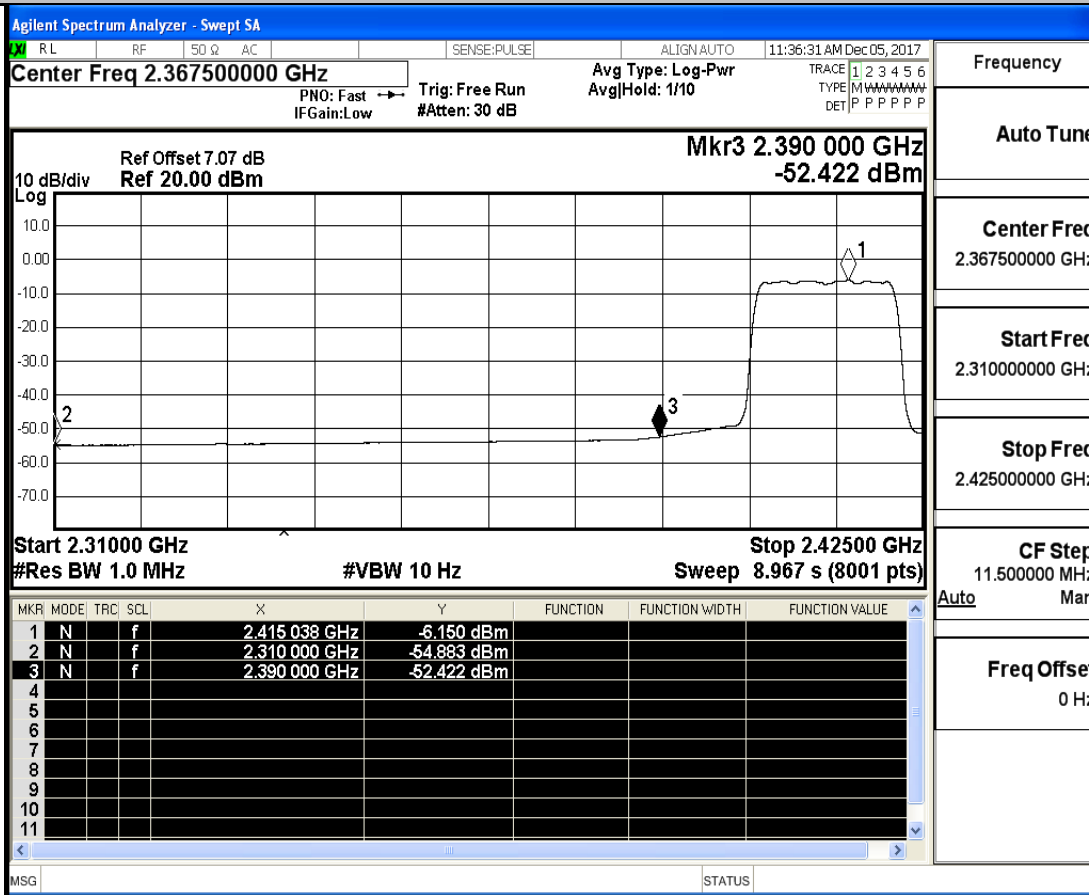
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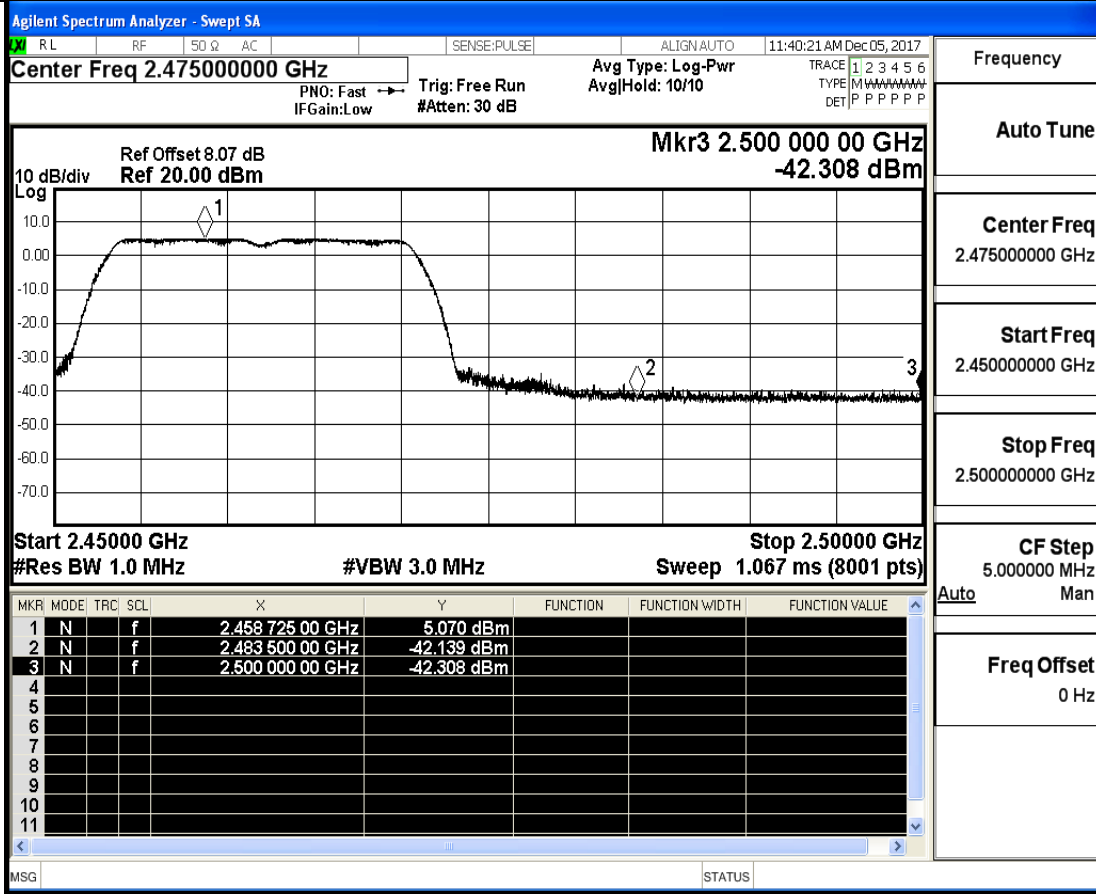
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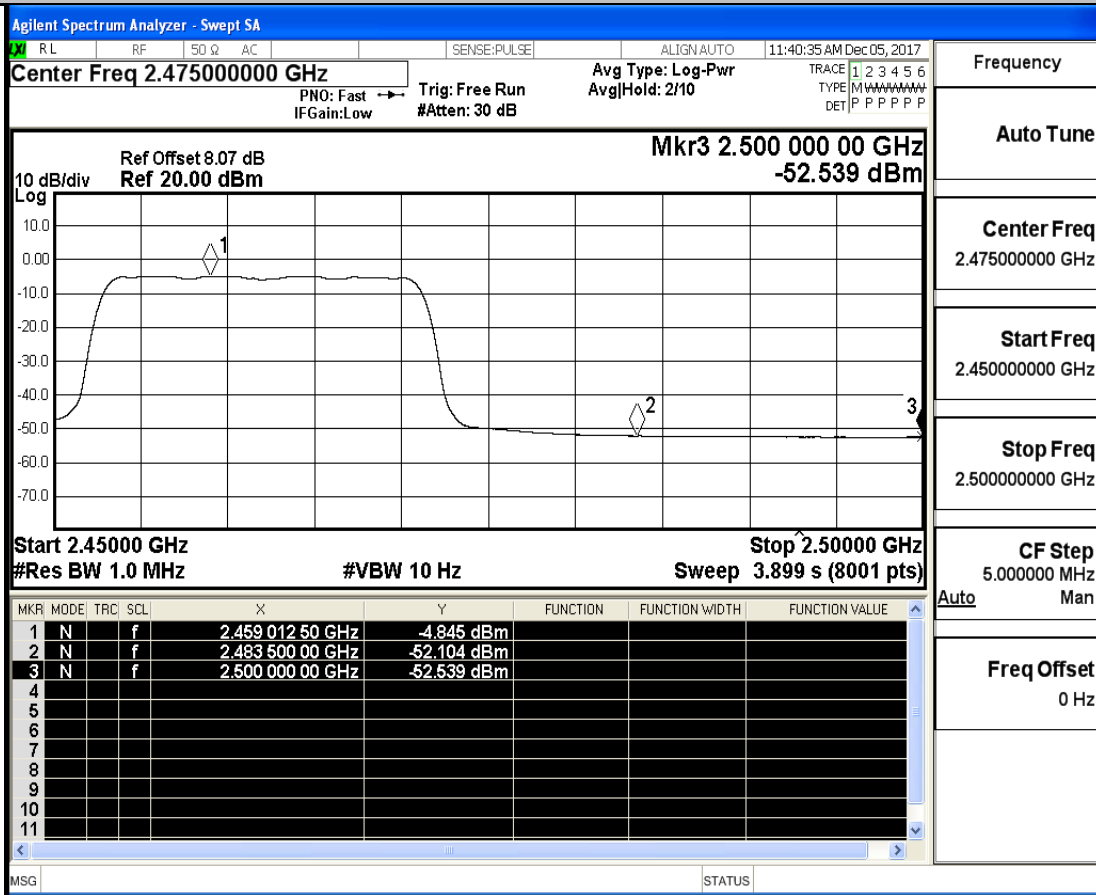
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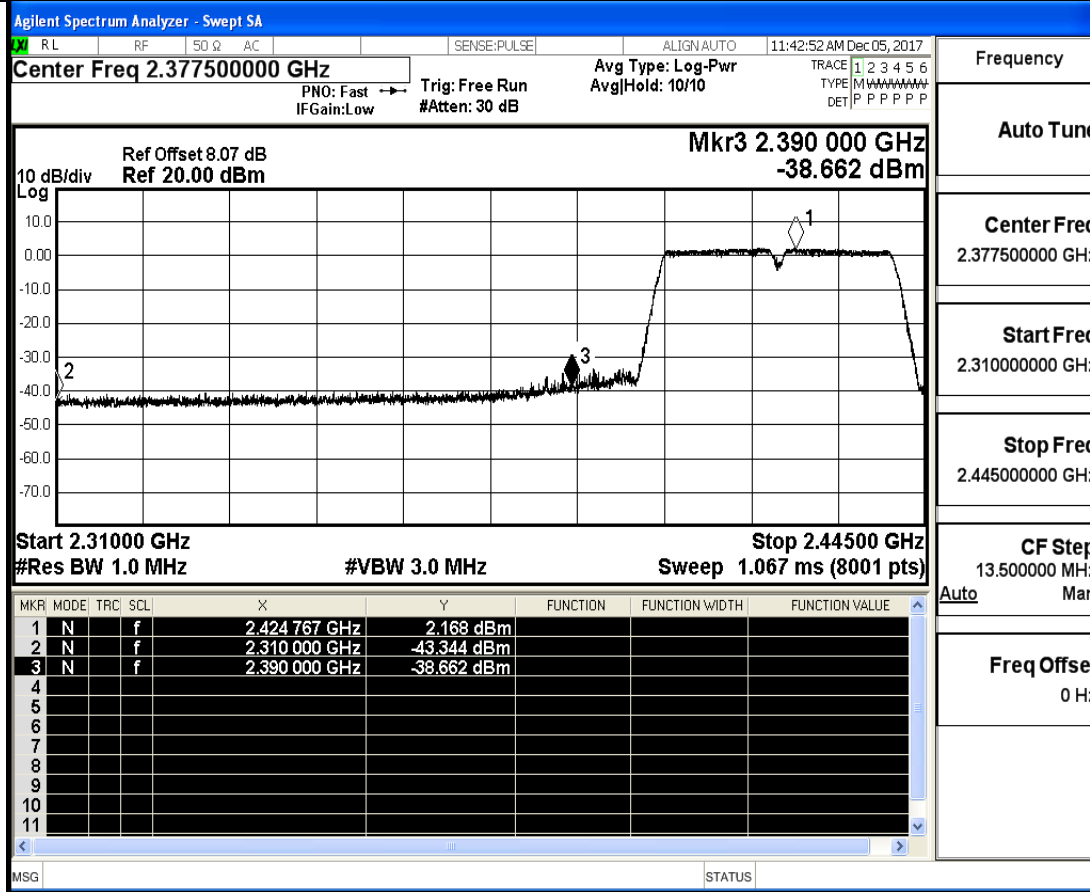
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



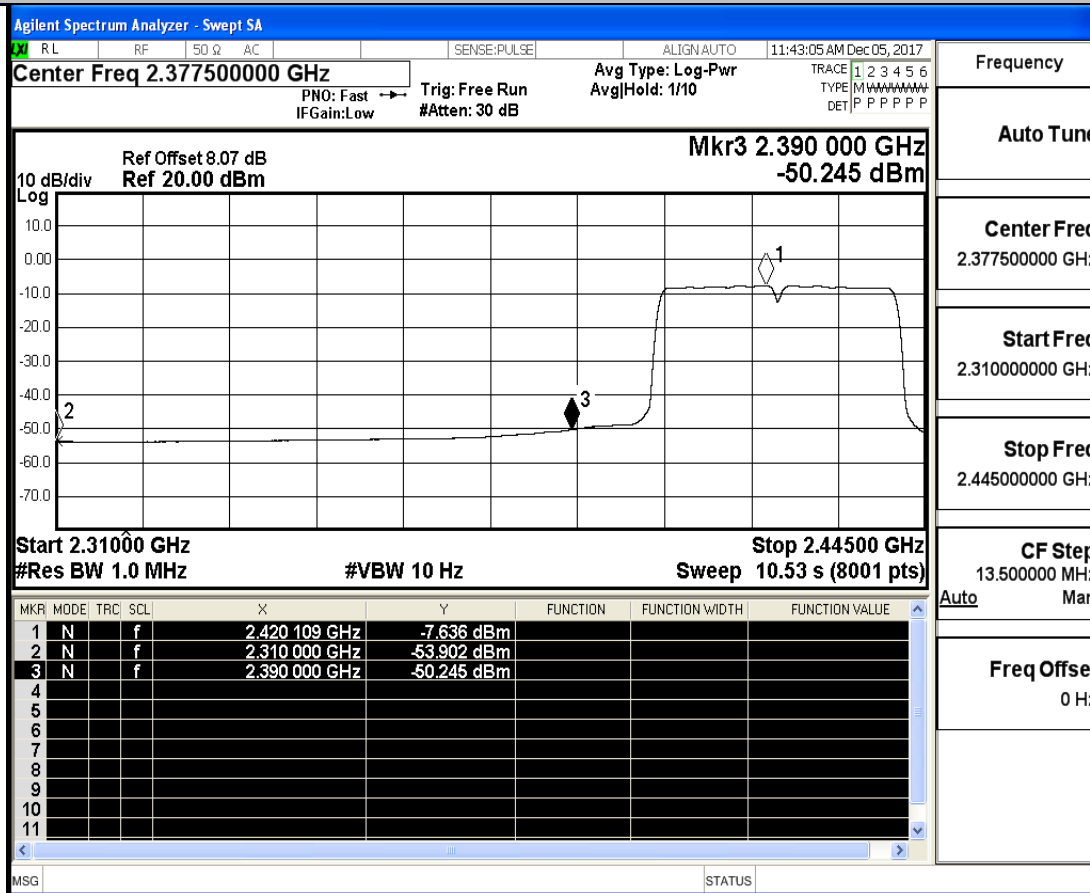
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



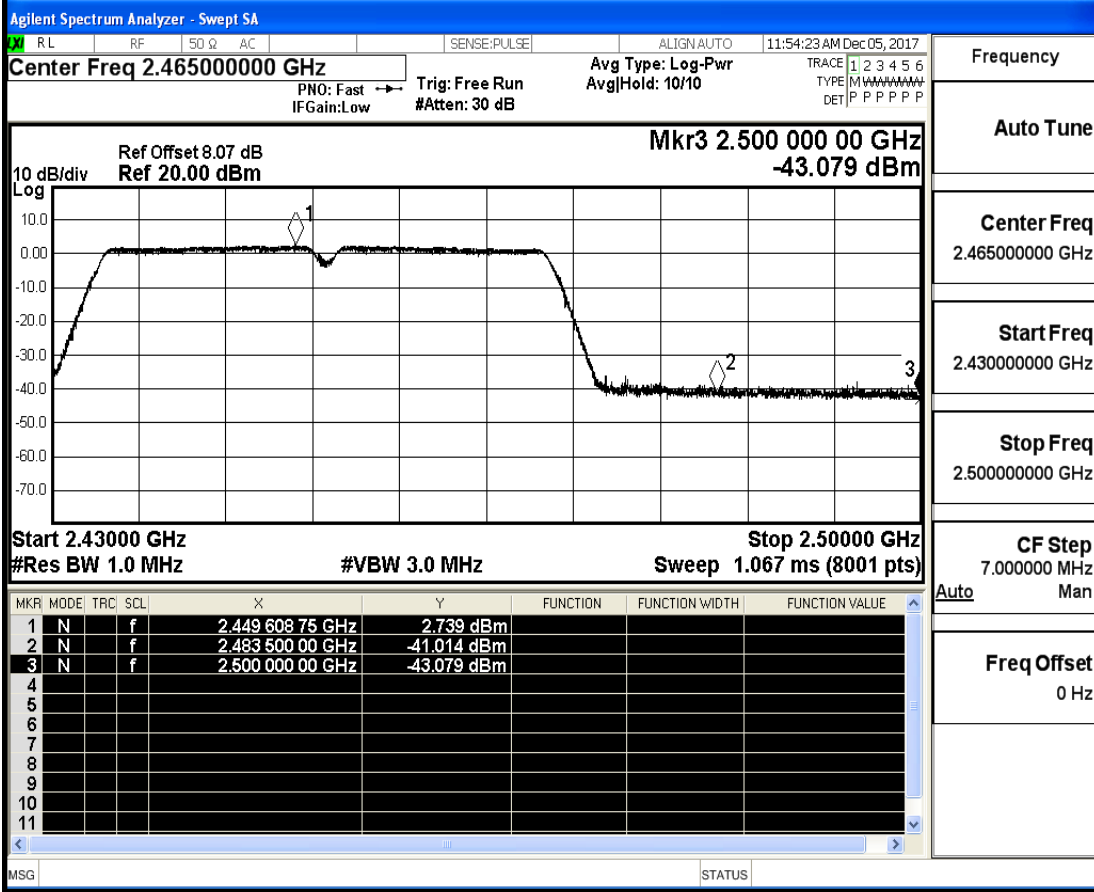
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



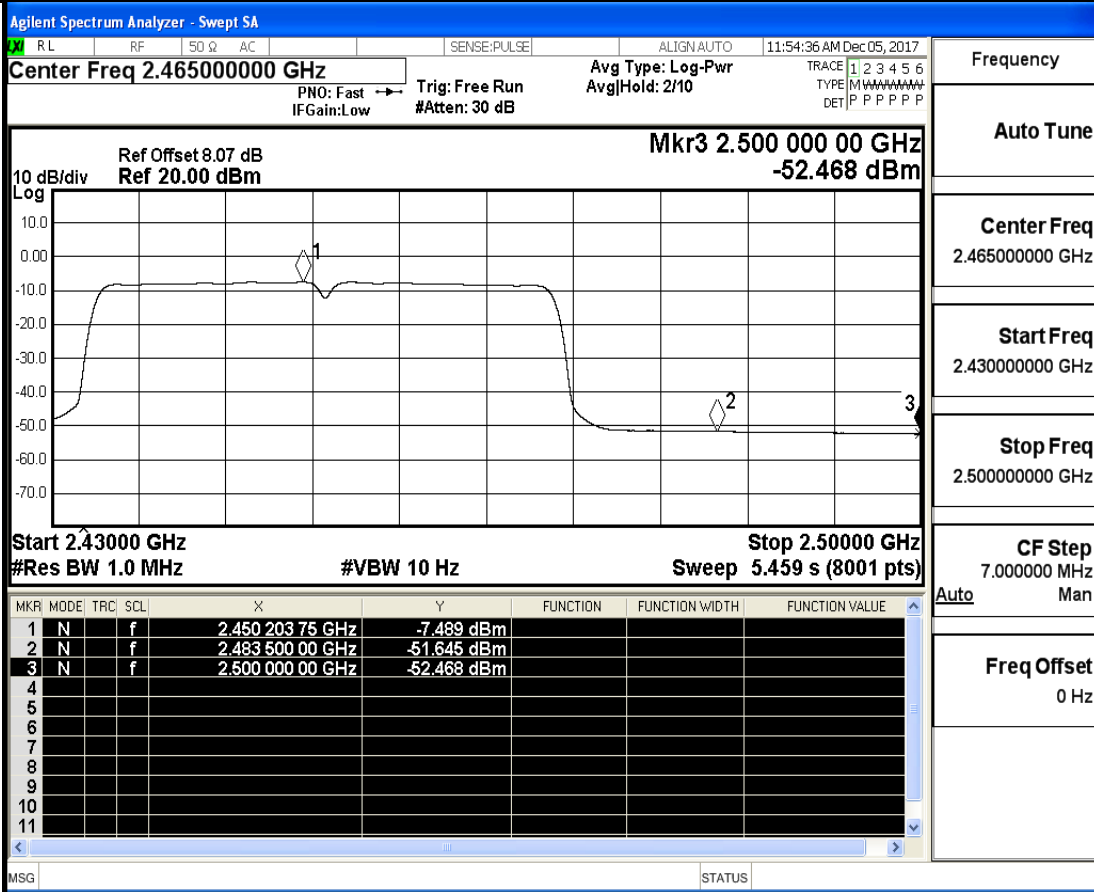
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



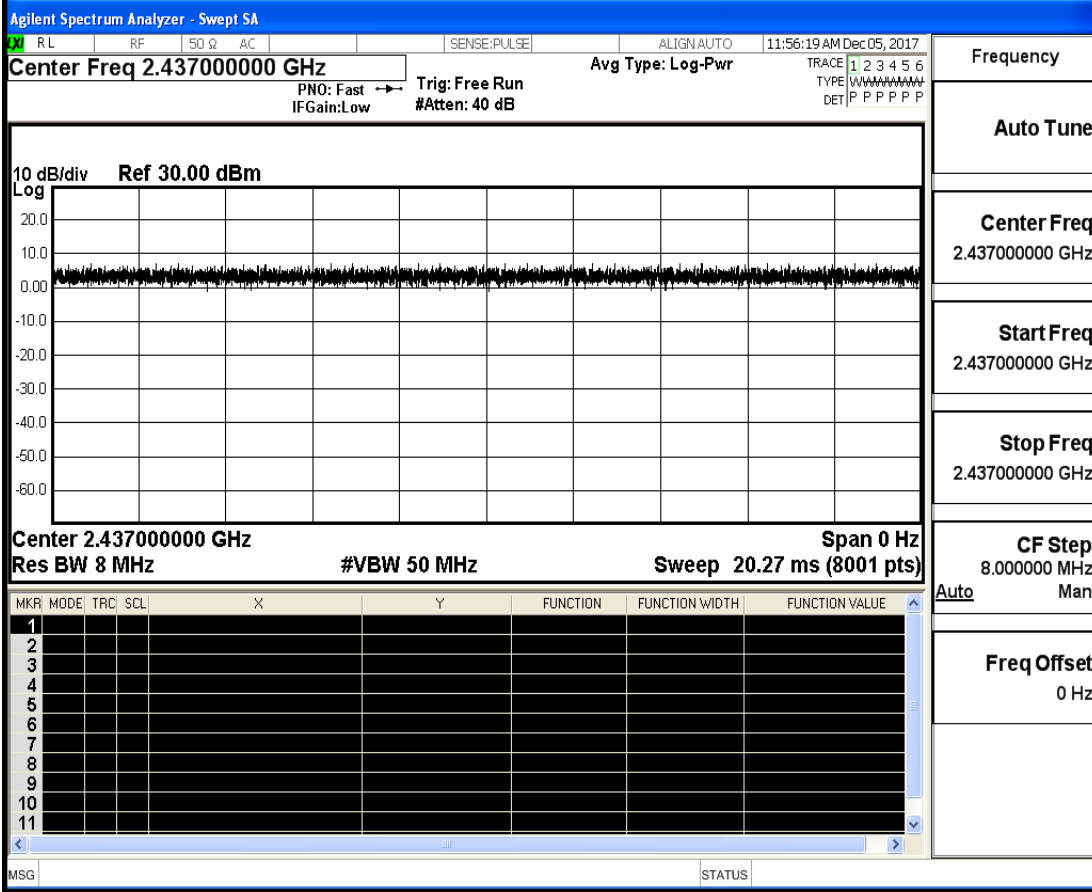
Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



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_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

