

1.20 dB Bandwidth

Test Mode	Test Channel	20 dB BW[MHz]	99%BW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.036	0.89138	---	PASS
DH5	2441	1.027	0.89107	---	PASS
DH5	2480	1.027	0.89160	---	PASS
2DH5	2402	1.293	1.1722	---	PASS
2DH5	2441	1.292	1.1725	---	PASS
2DH5	2480	1.307	1.1739	---	PASS
3DH5	2402	1.304	1.1816	---	PASS
3DH5	2441	1.299	1.1852	---	PASS
3DH5	2480	1.301	1.1867	---	PASS

20 dB Bandwidth_DH5_2402

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.40200000 GHz Center Freq: 2.40200000 GHz Radio Std: None

#IFGain:Low Trig: Free Run AvgHold: 1/1 Radio Device: BTS

#Atten: 30 dB

Ref Offset 2.5 dB Mkr1 2.40216 GHz

Ref 20.00 dBm -1.8161 dBm

Center 2.402 GHz Span 2 MHz

#Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms

Occupied Bandwidth	Total Power	7.97 dBm
891.38 kHz		
Transmit Freq Error	OBW Power	99.00 %
2.217 kHz		
x dB Bandwidth	x dB	-20.00 dB
1.036 MHz		

MSG STATUS

Frequency	
Center Freq	2.40200000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

20 dB Bandwidth_DH5_2441

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.44100000 GHz Center Freq: 2.44100000 GHz Radio Std: None

#IFGain:Low Trig: Free Run AvgHold: 1/1 Radio Device: BTS

#Atten: 30 dB

Ref Offset 2.5 dB Mkr1 2.44116 GHz

Ref 20.00 dBm -1.8932 dBm

Center 2.441 GHz Span 2 MHz

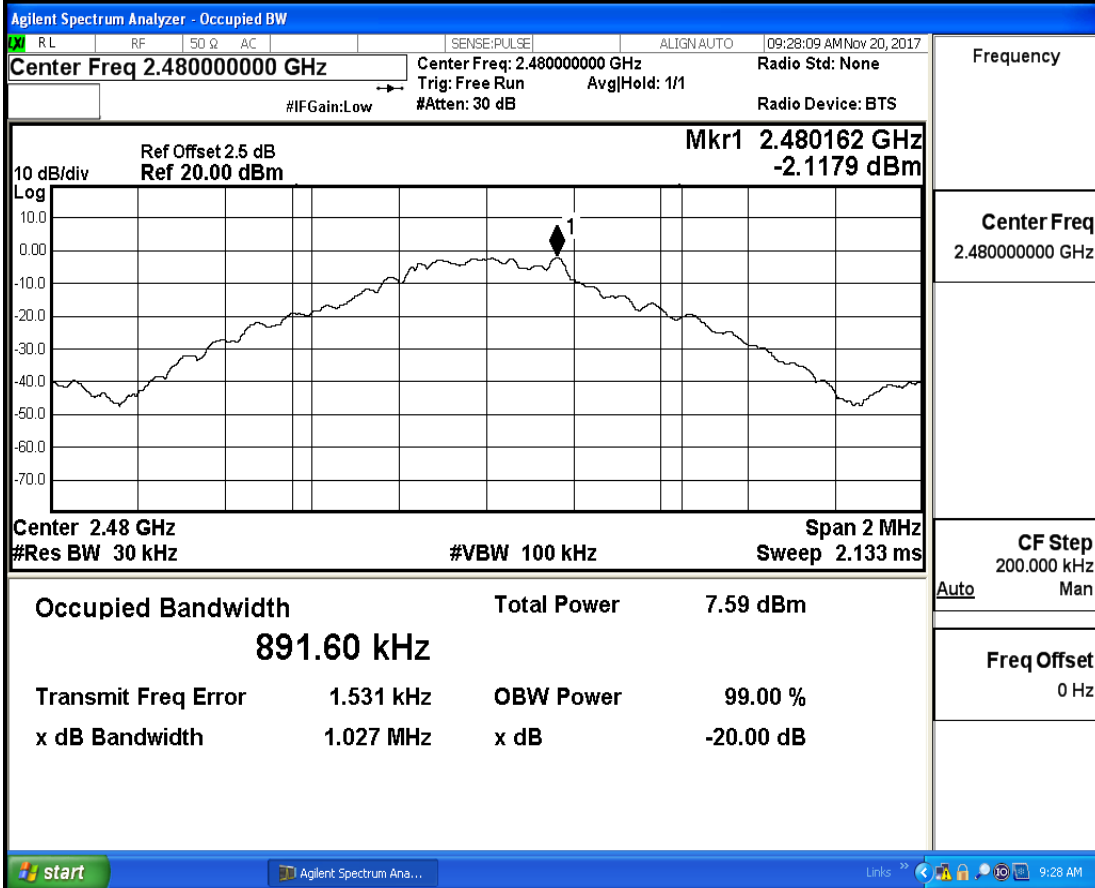
#Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms

Occupied Bandwidth	Total Power	7.91 dBm
891.07 kHz		
Transmit Freq Error	OBW Power	99.00 %
2.548 kHz		
x dB Bandwidth	x dB	-20.00 dB
1.027 MHz		

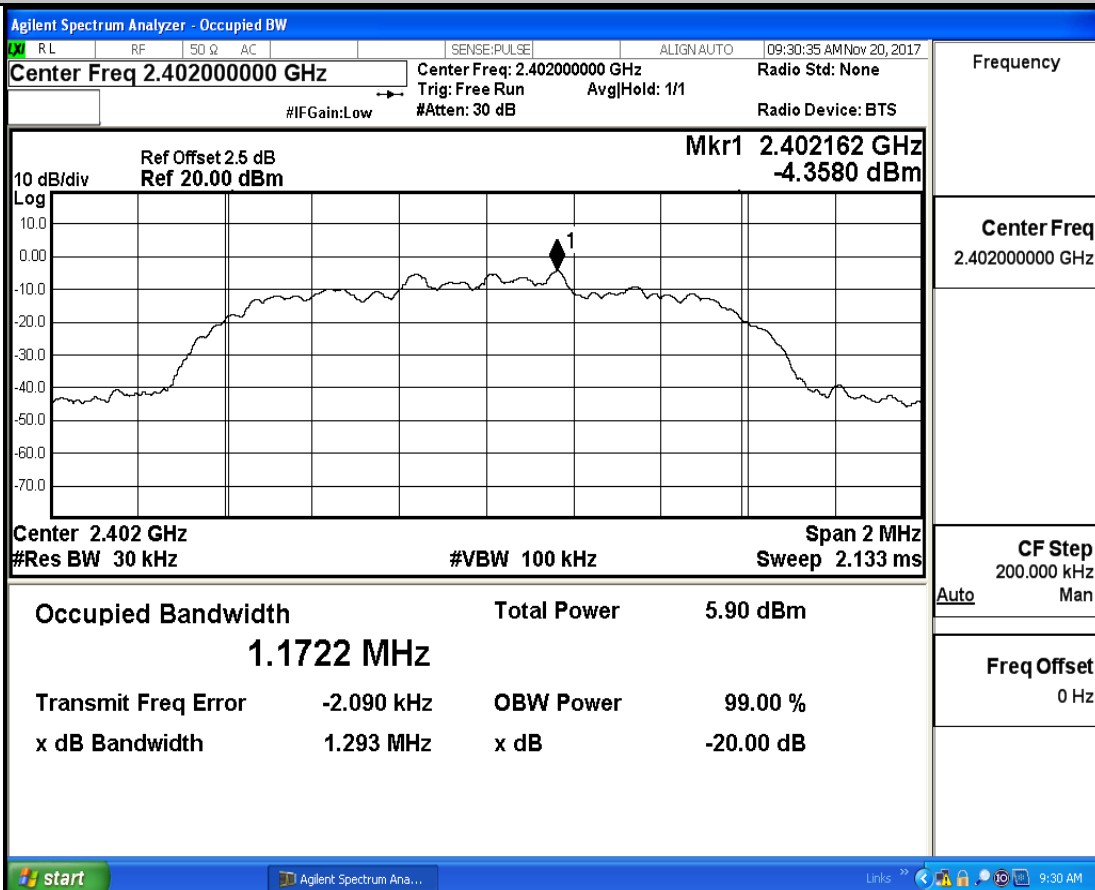
start Agilent Spectrum Ana... Links 9:26 AM

Frequency	
Center Freq	2.44100000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

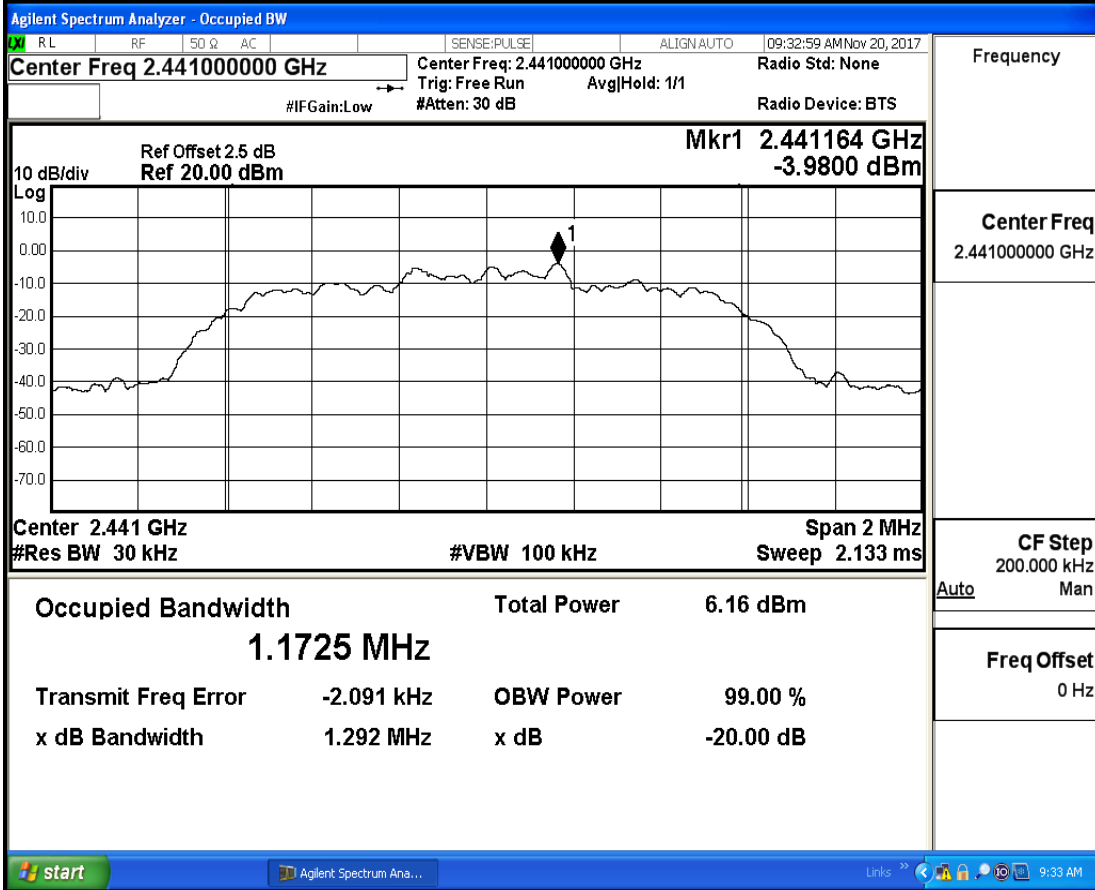
20 dB Bandwidth_DH5_2480



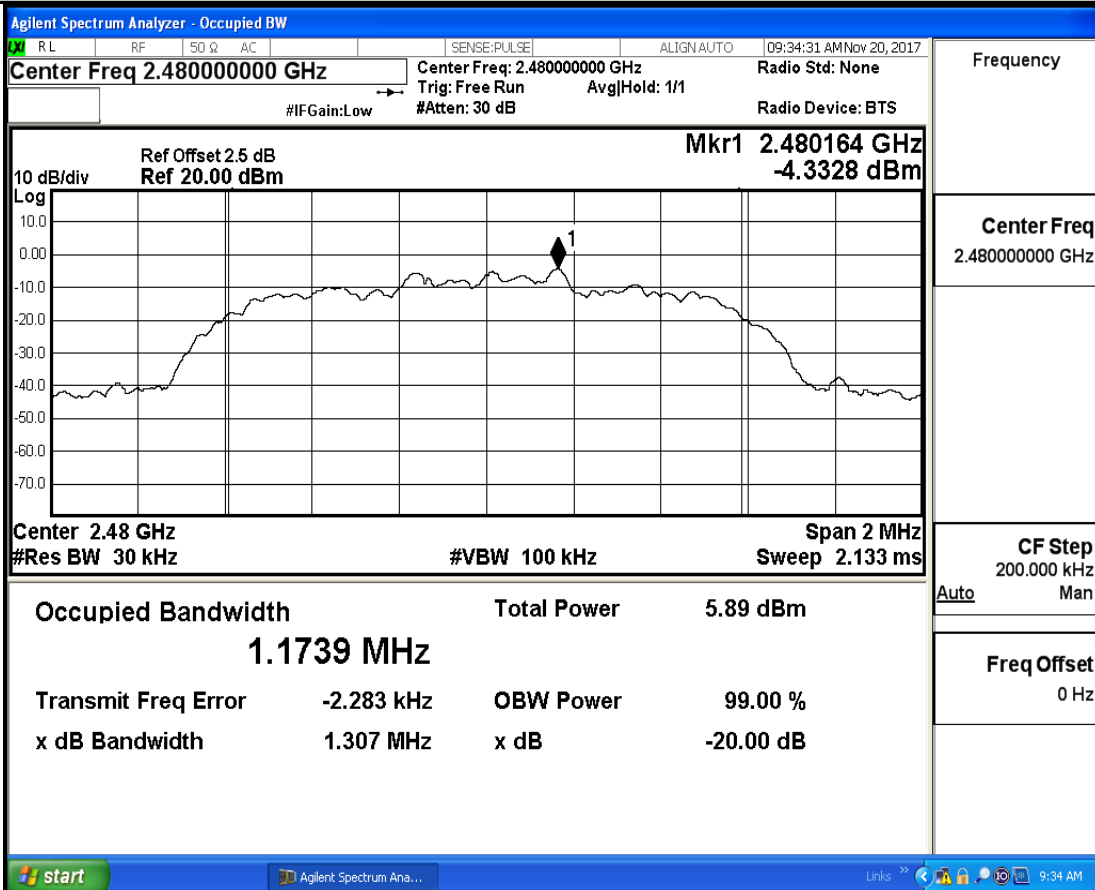
20 dB Bandwidth_2DH5_2402



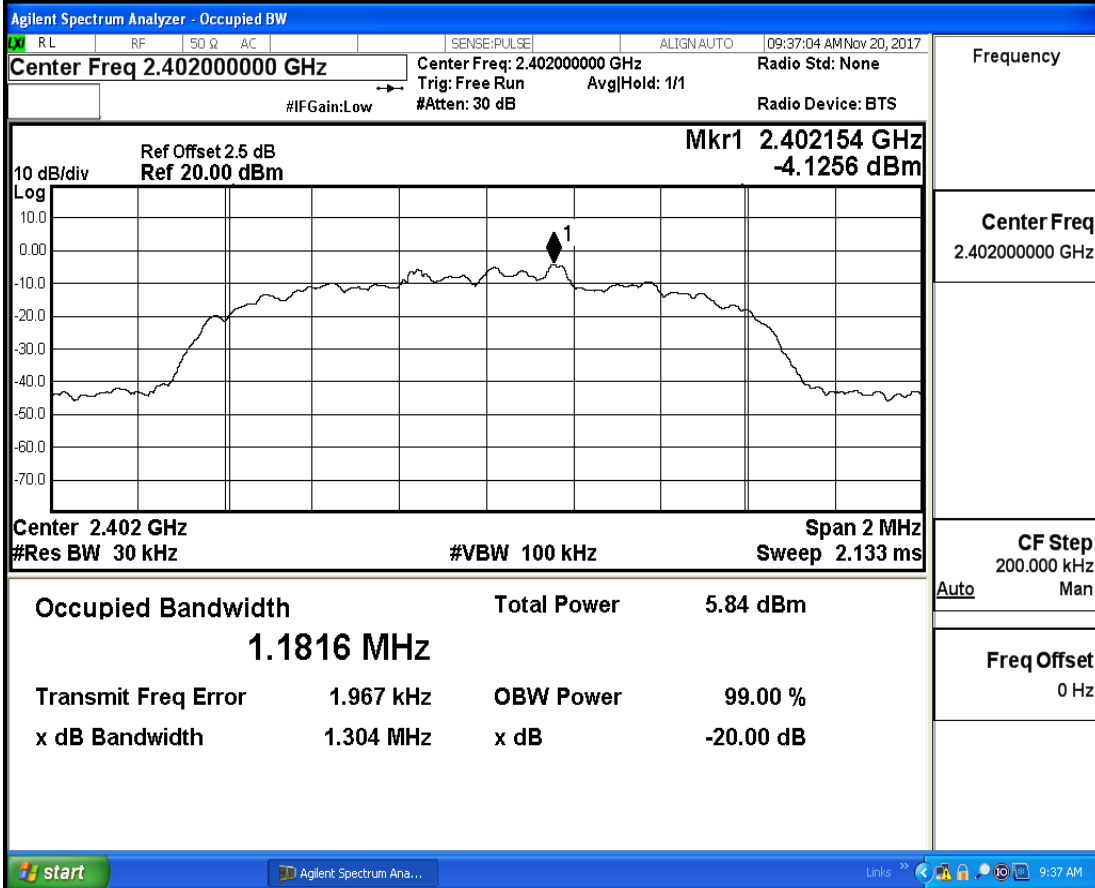
20 dB Bandwidth_2DH5_2441



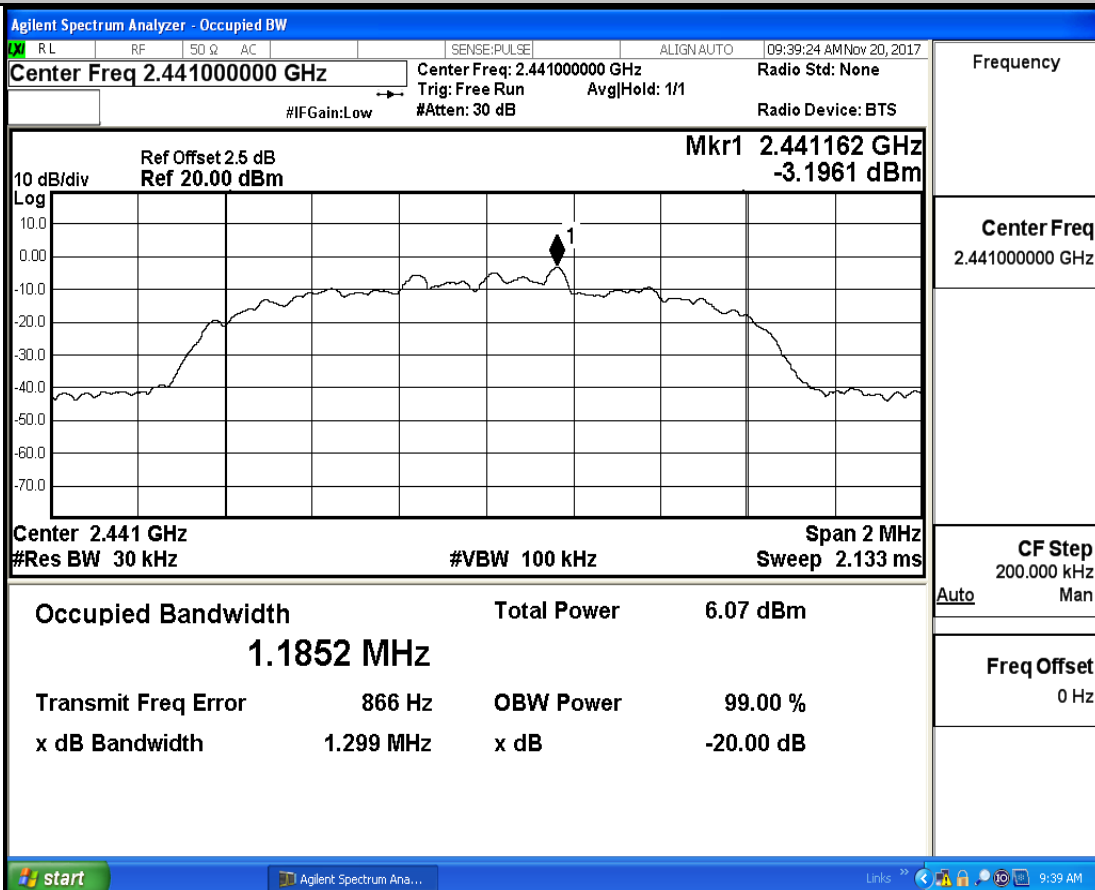
20 dB Bandwidth_2DH5_2480



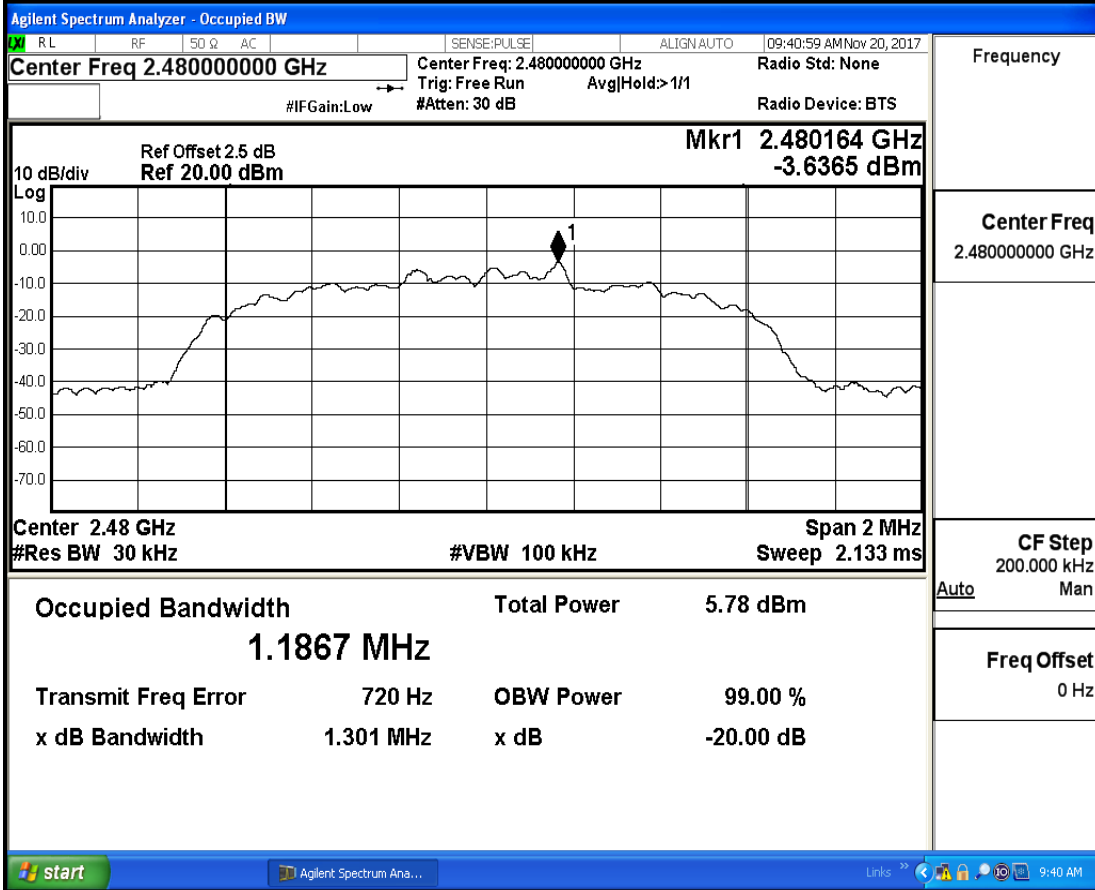
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



20 dB Bandwidth_3DH5_2480



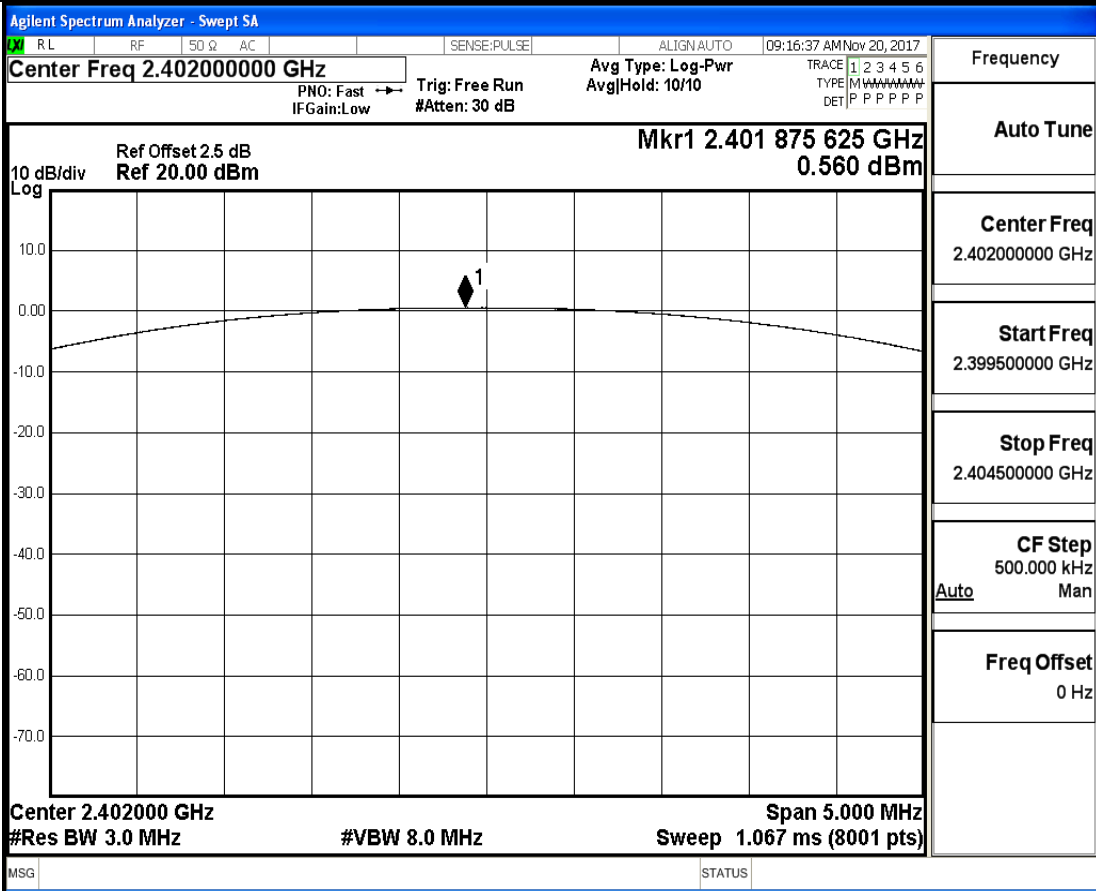
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
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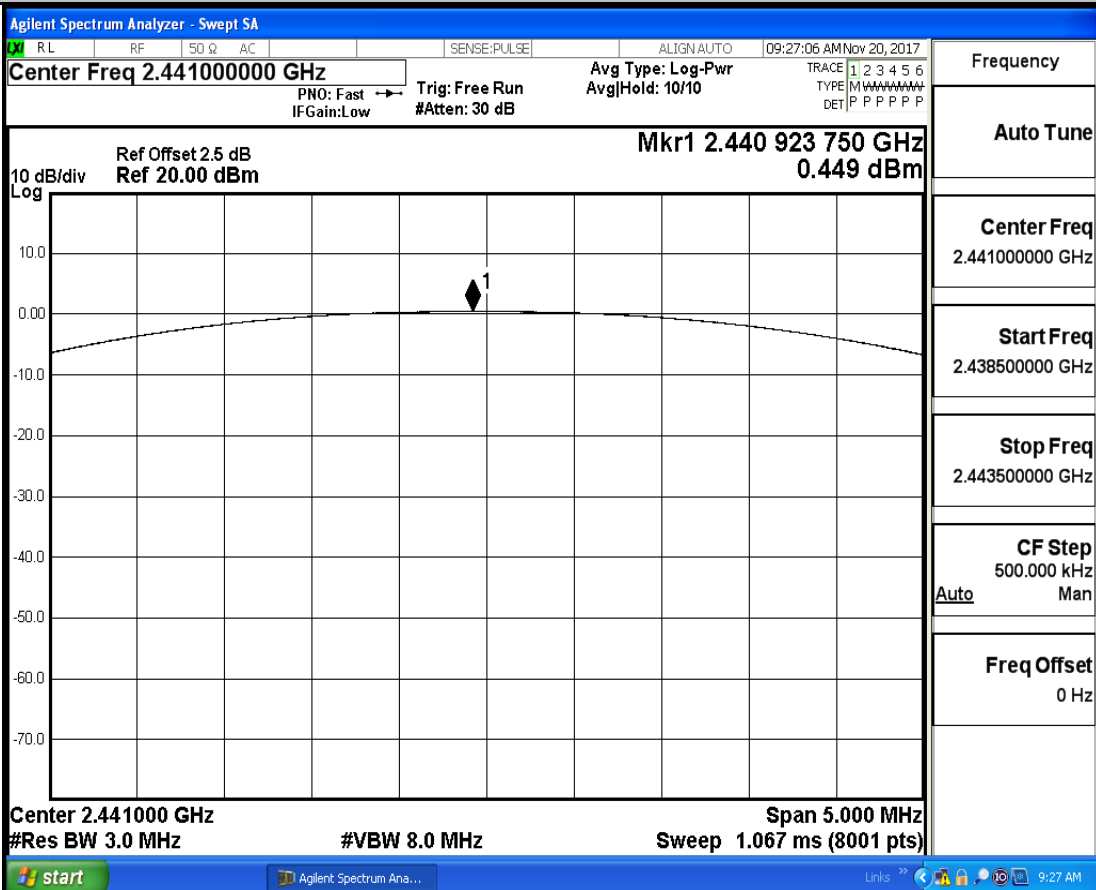
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	0.560	21	PASS
DH5	2441	0.449	21	PASS
DH5	2480	0.171	21	PASS
2DH5	2402	-0.280	21	PASS
2DH5	2441	-0.250	21	PASS
2DH5	2480	-0.552	21	PASS
3DH5	2402	-0.109	21	PASS
3DH5	2441	-0.101	21	PASS
3DH5	2480	-0.390	21	PASS

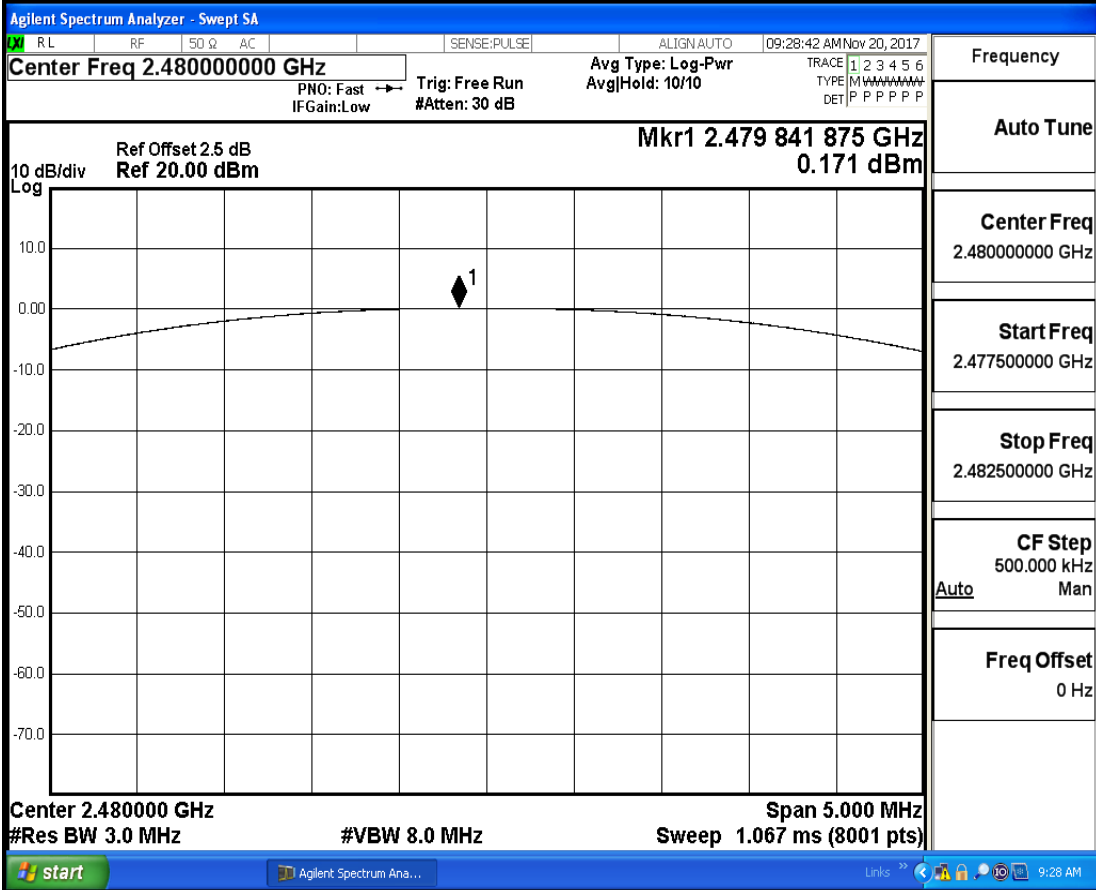
Conducted Peak Output Power_DH5_2402



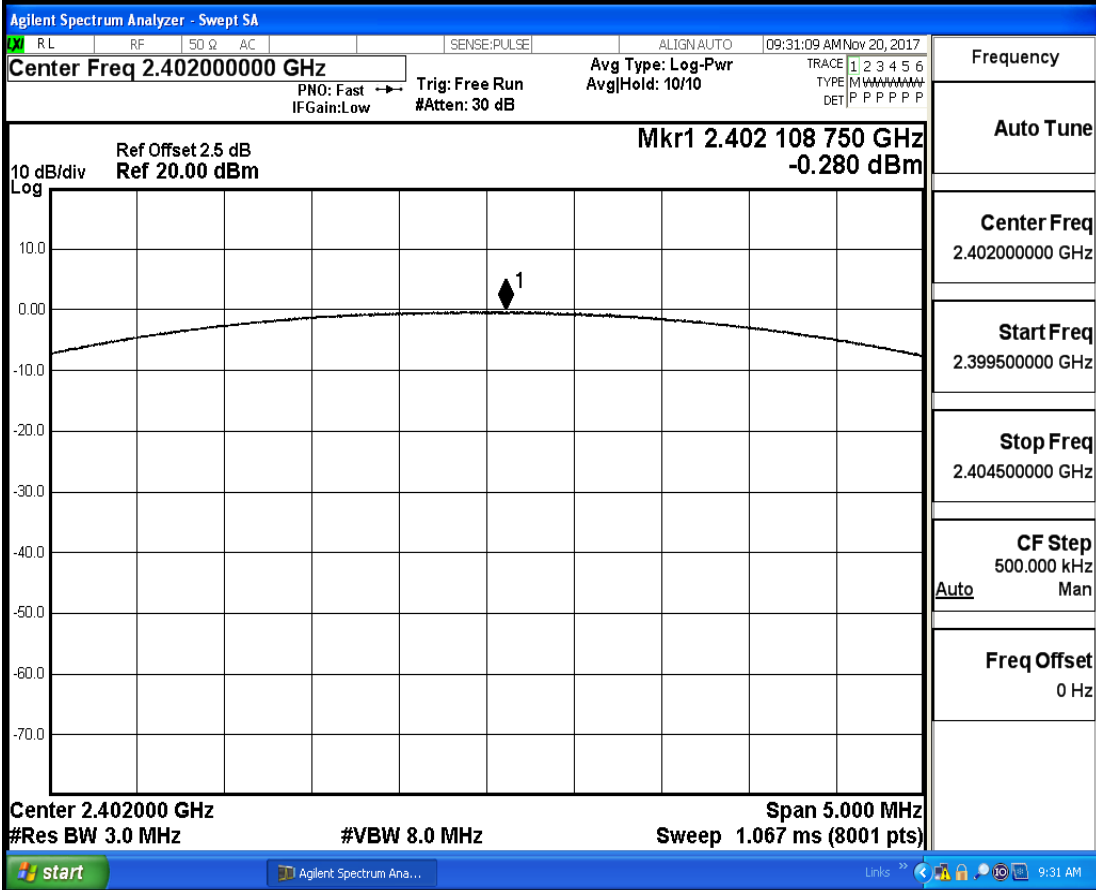
Conducted Peak Output Power_DH5_2441



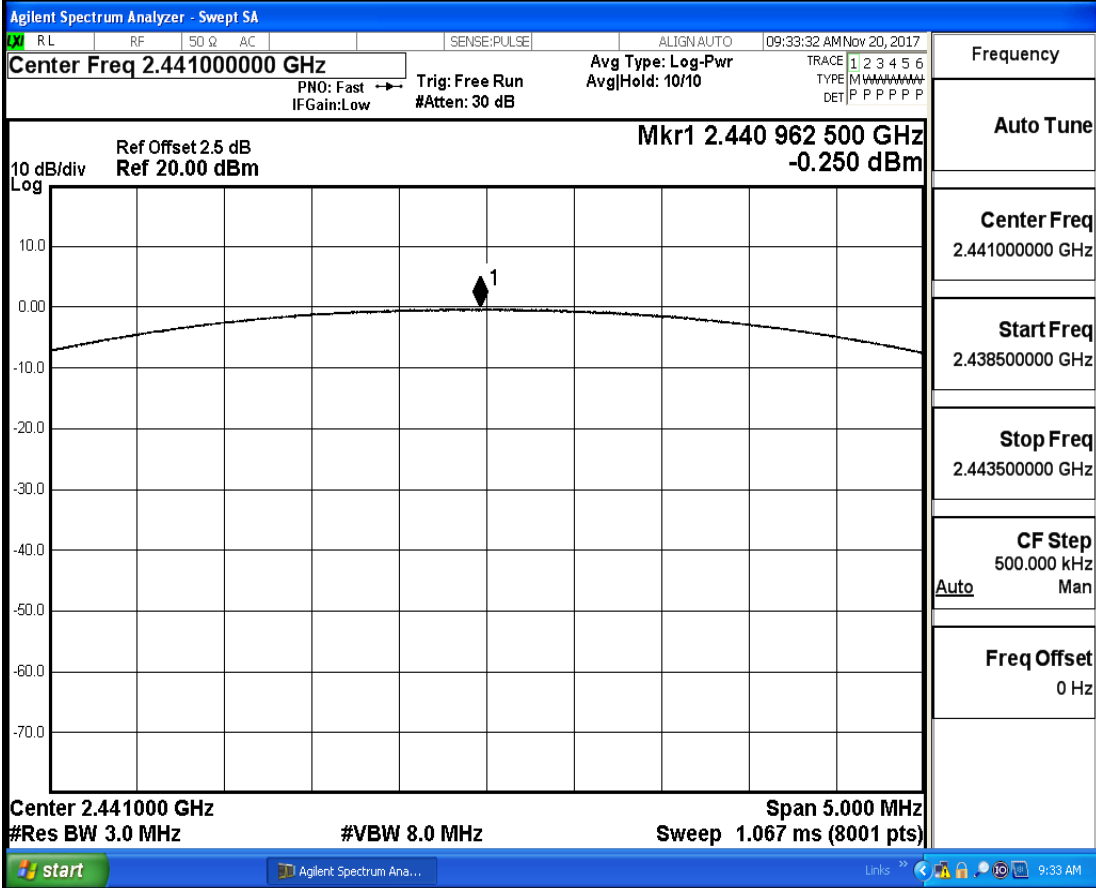
Conducted Peak Output Power_DH5_2480



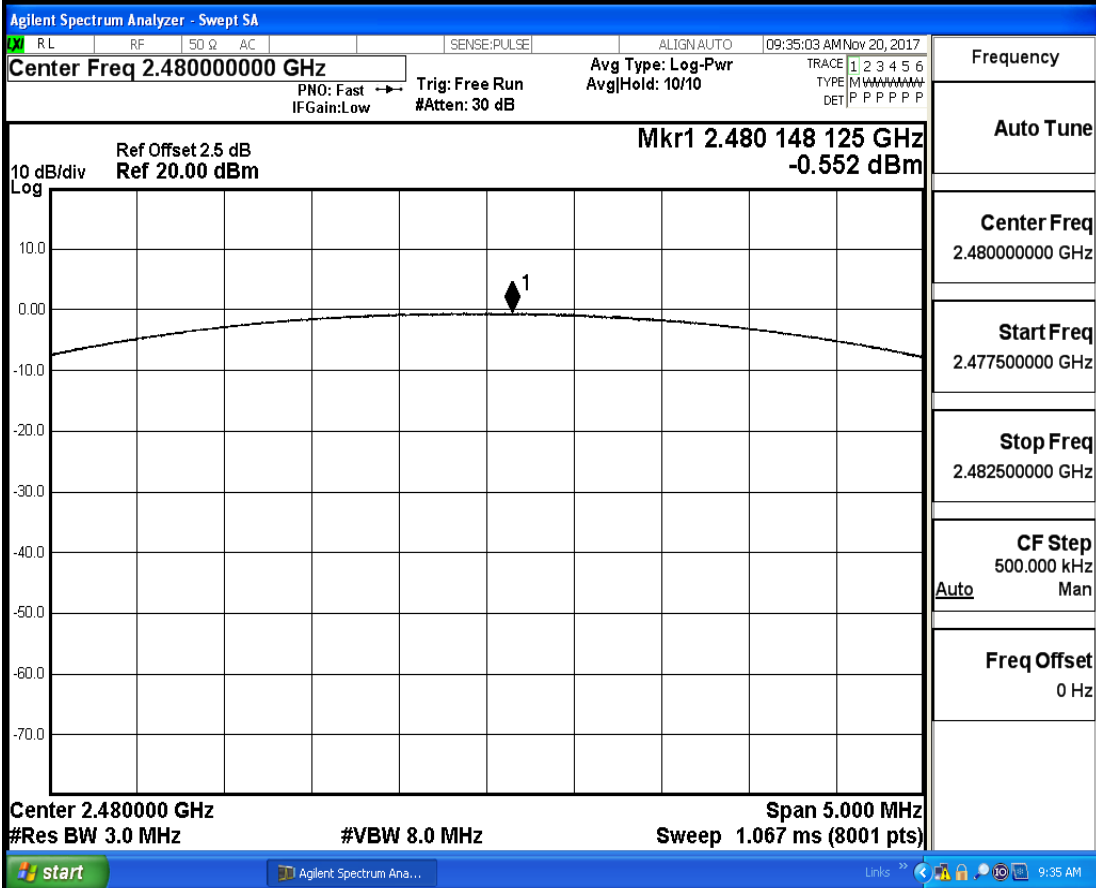
Conducted Peak Output Power_2DH5_2402



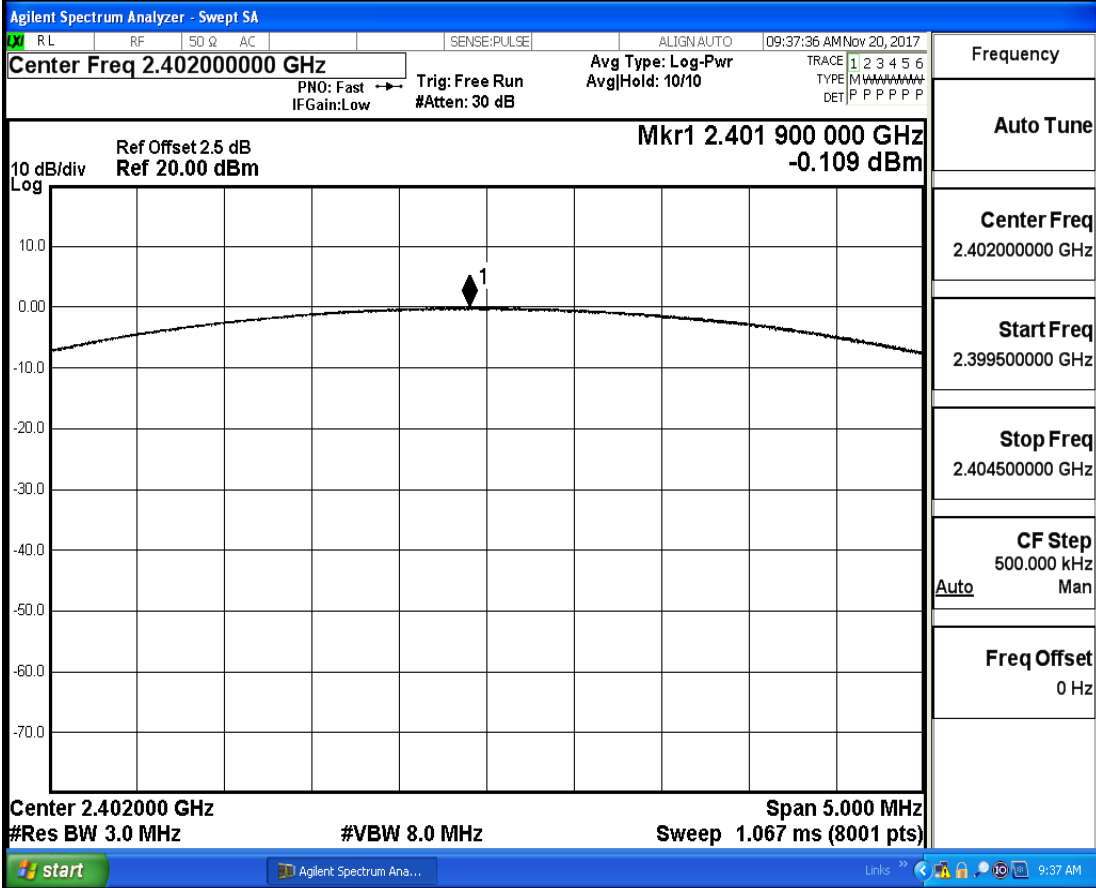
Conducted Peak Output Power_2DH5_2441



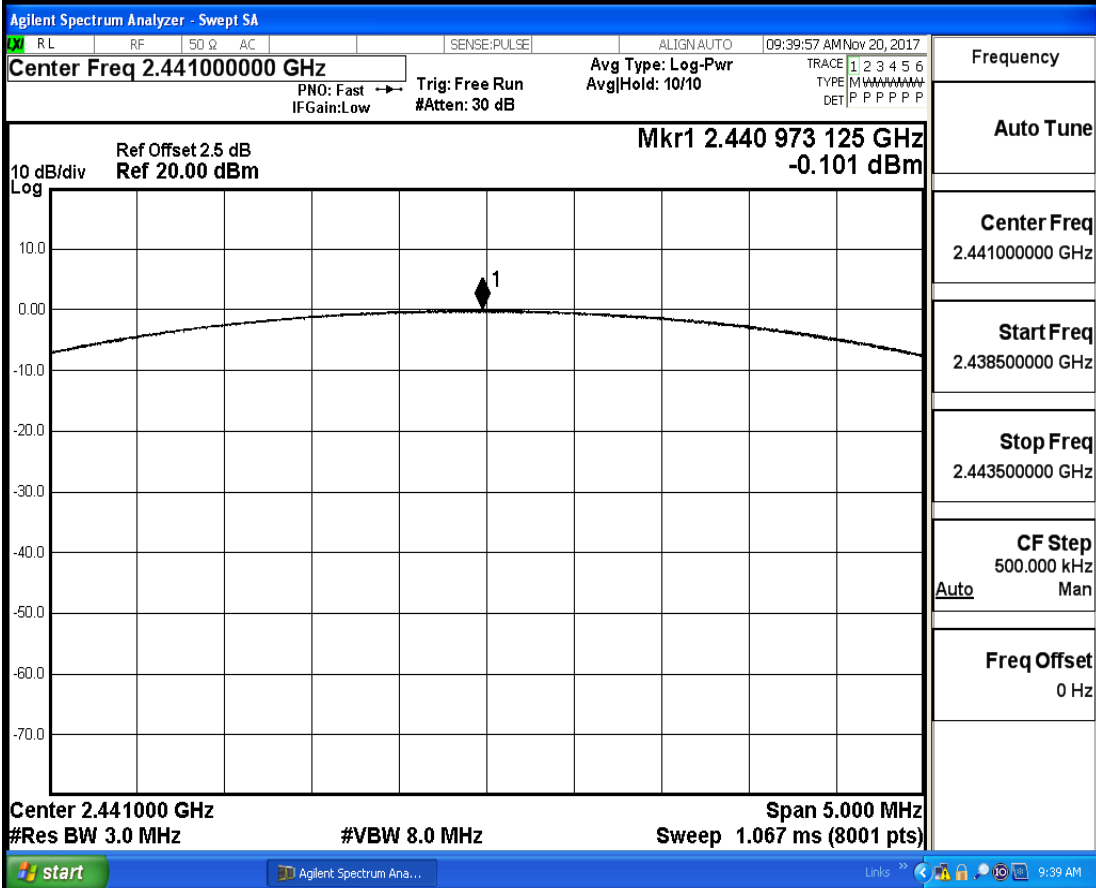
Conducted Peak Output Power_2DH5_2480



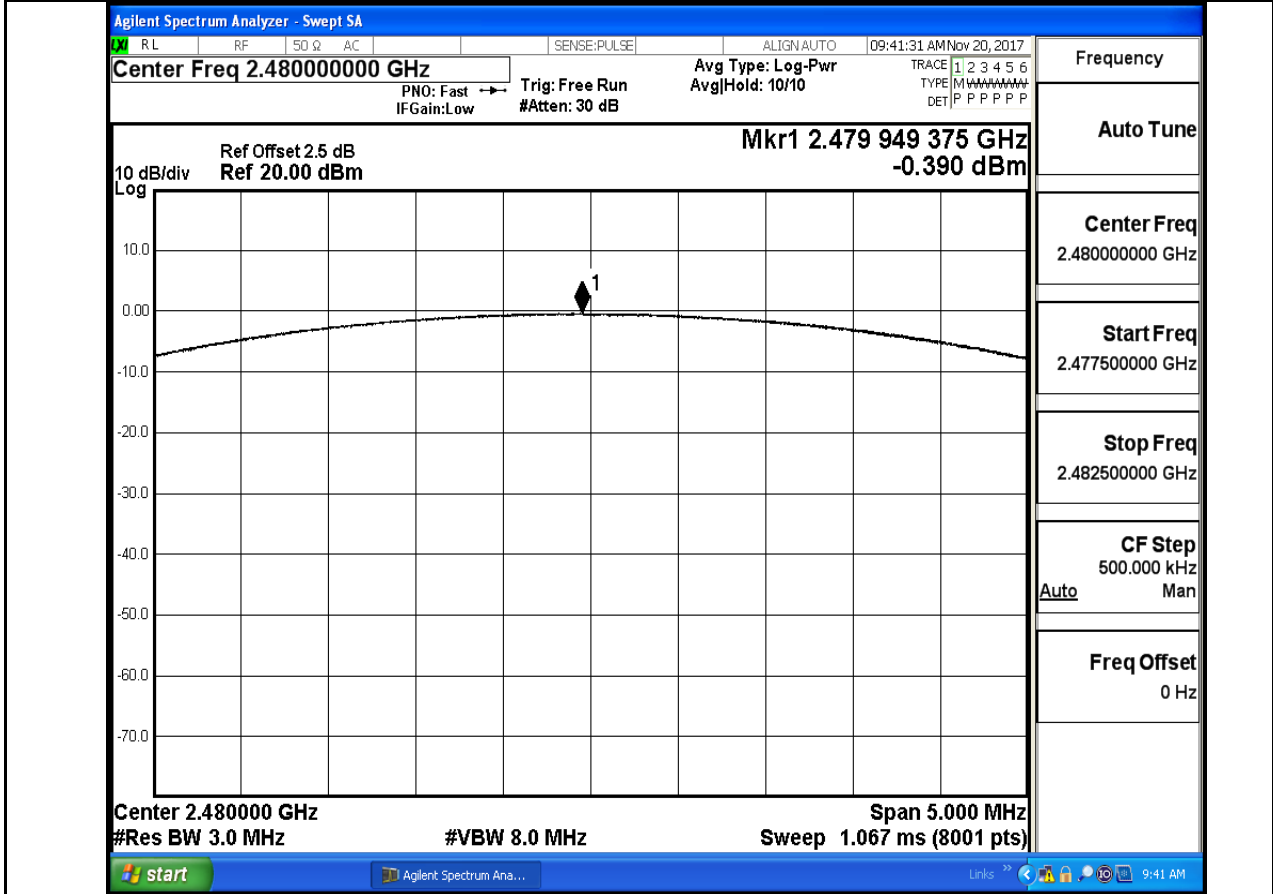
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



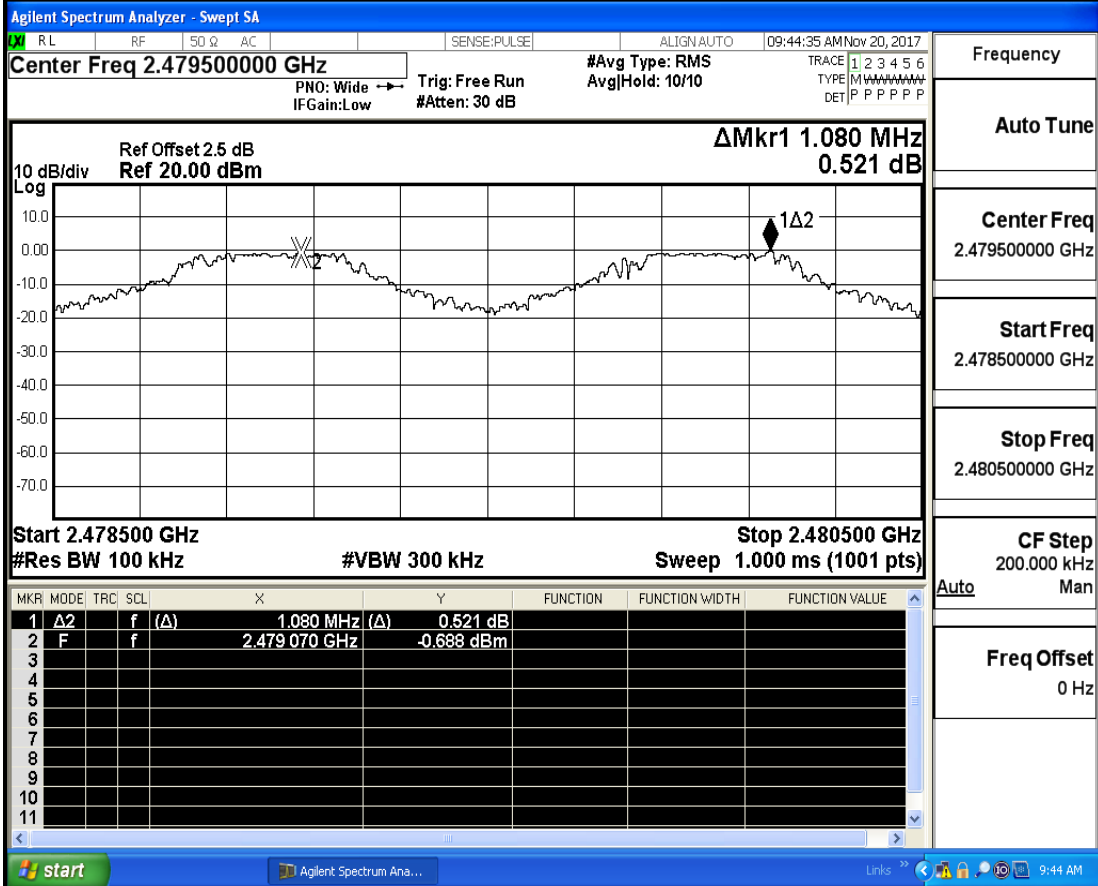
Conducted Peak Output Power_3DH5_2480



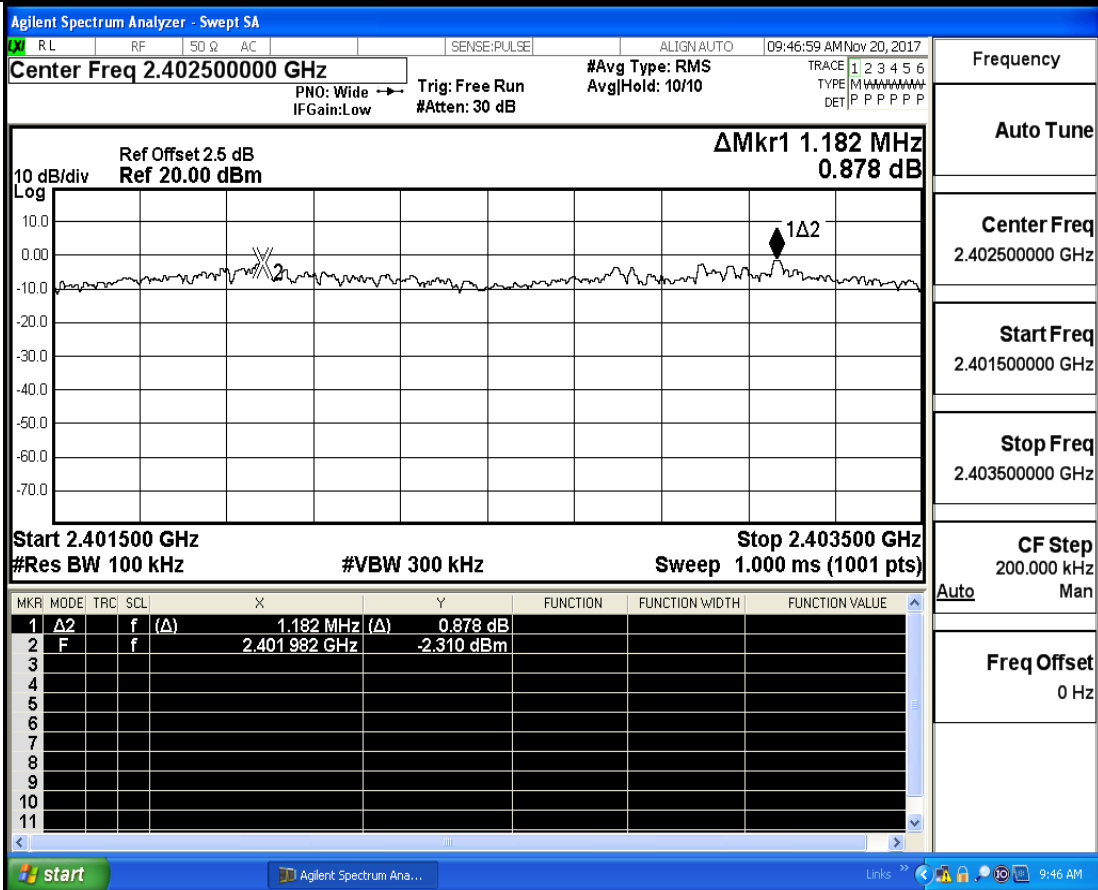
4. Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	0.852	0.691	PASS
DH5	2441	1.162	0.685	PASS
DH5	2480	1.080	0.685	PASS
2DH5	2402	1.182	0.788	PASS
2DH5	2441	1.024	0.683	PASS
2DH5	2480	0.996	0.664	PASS
3DH5	2402	1.134	0.756	PASS
3DH5	2441	0.988	0.659	PASS
3DH5	2480	1.012	0.675	PASS

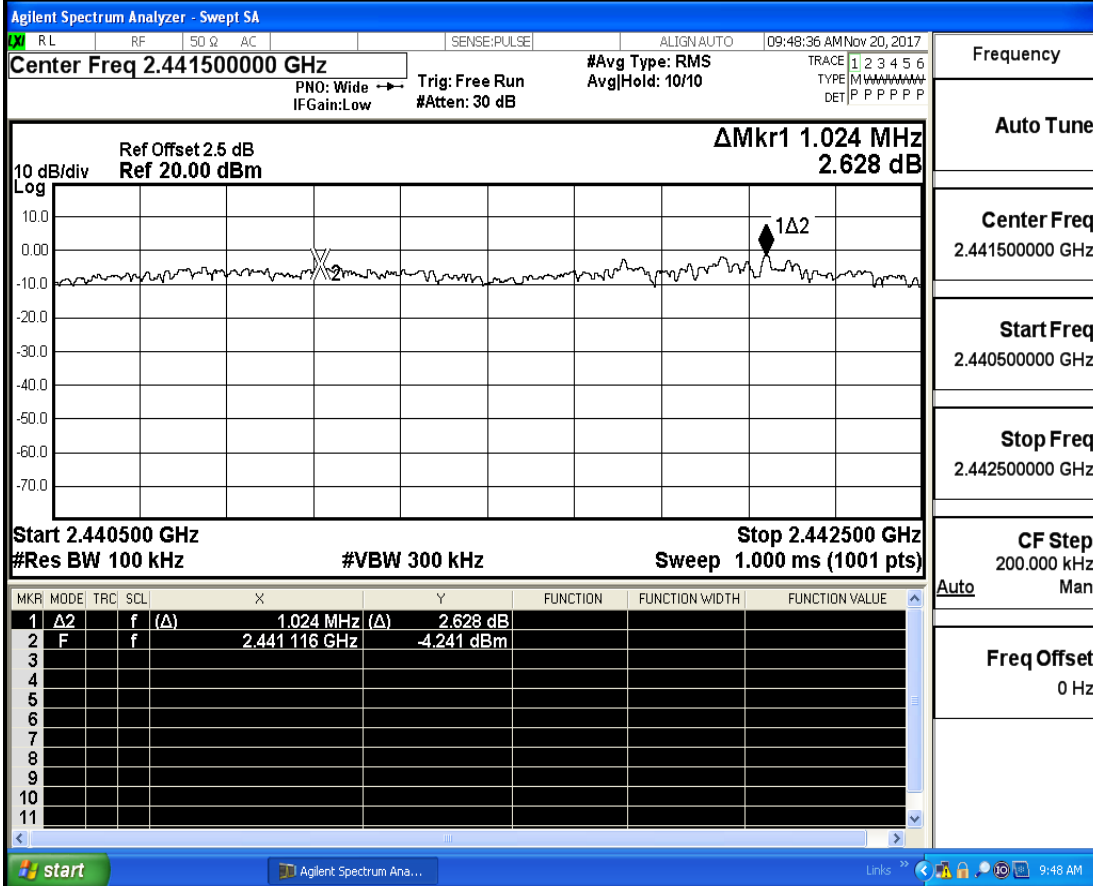
Carrier Frequency Separation_DH5_2480



Carrier Frequency Separation_2DH5_2402

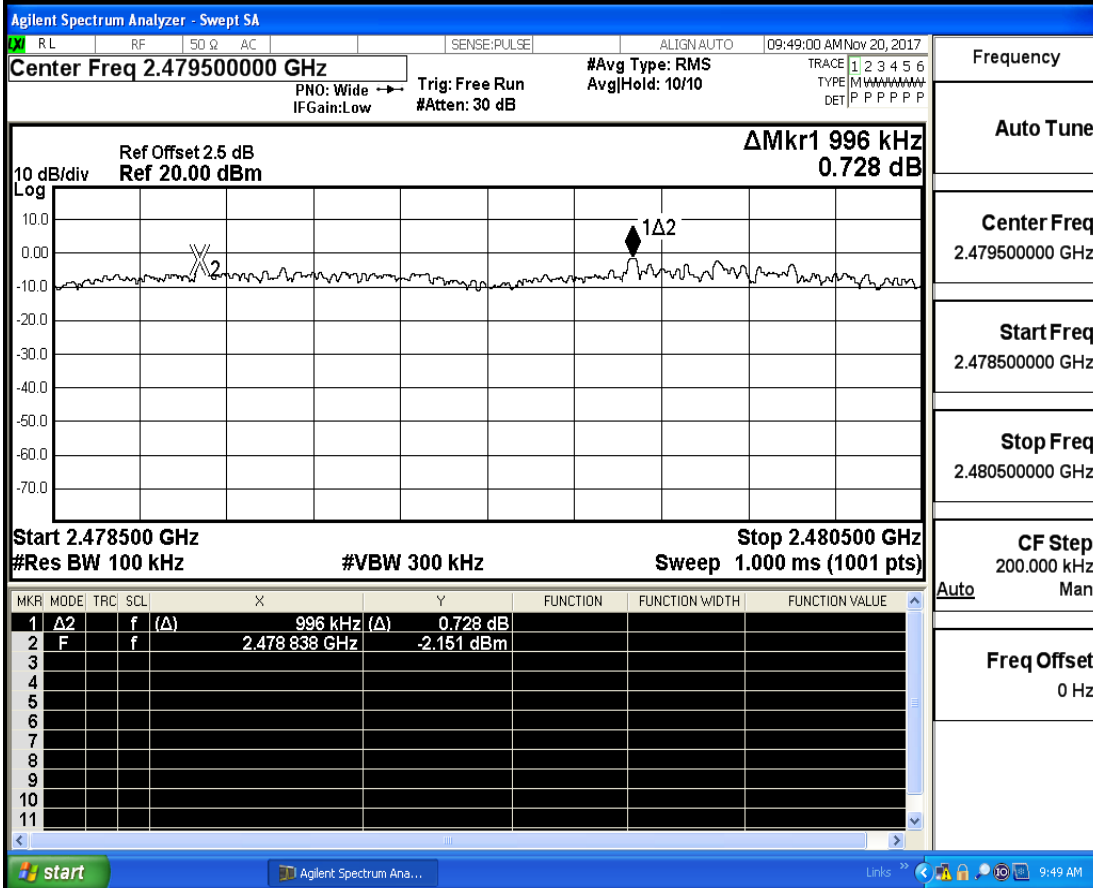


Carrier Frequency Separation_2DH5_2441



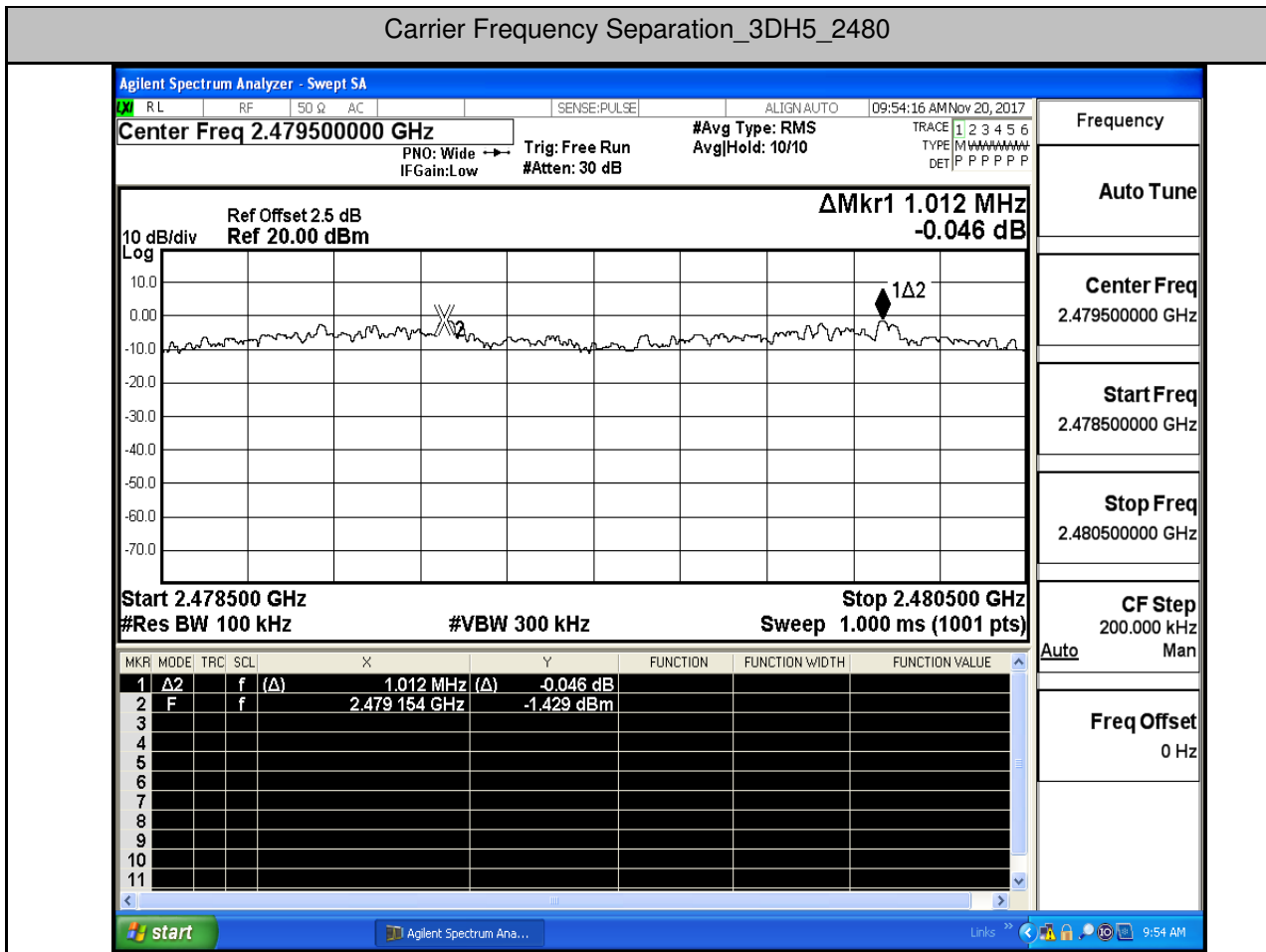
Frequency
Auto Tune
Center Freq 2.441500000 GHz
Start Freq 2.440500000 GHz
Stop Freq 2.442500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

Carrier Frequency Separation_2DH5_2480



Frequency
Auto Tune
Center Freq 2.479500000 GHz
Start Freq 2.478500000 GHz
Stop Freq 2.480500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

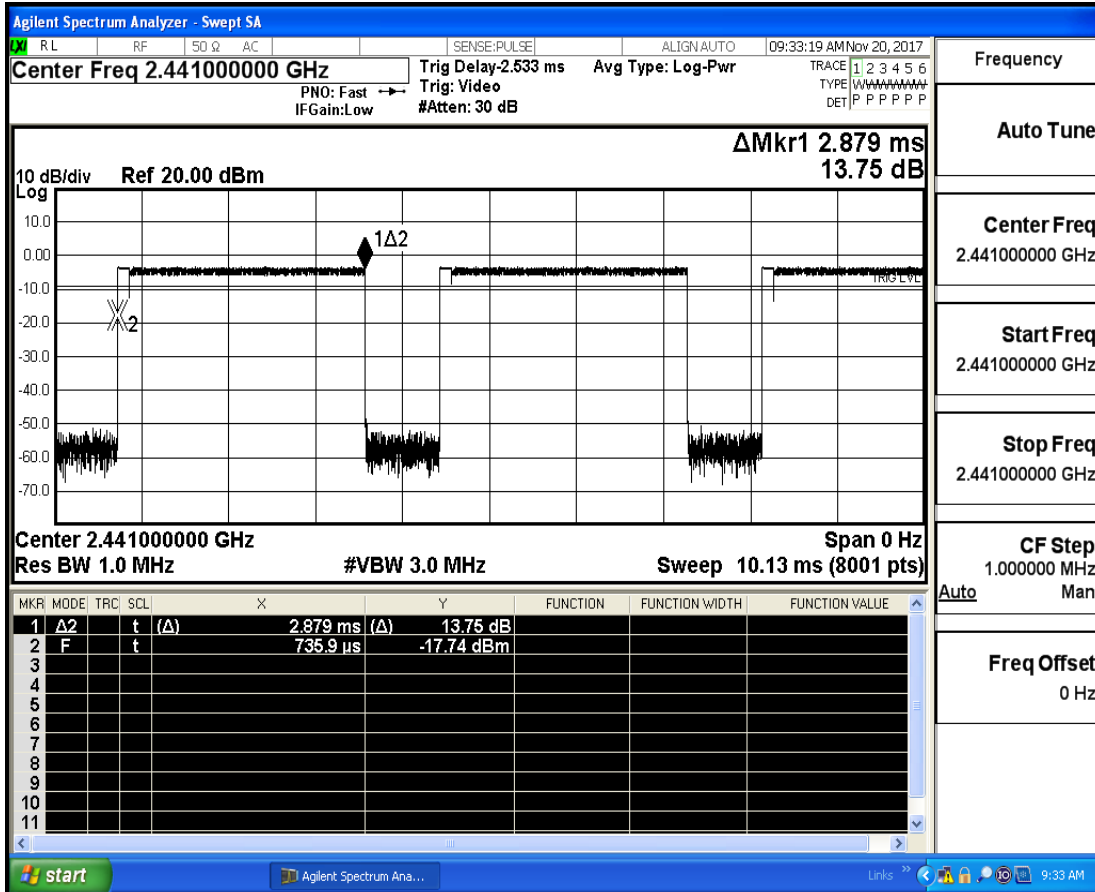
Carrier Frequency Separation_3DH5_2480



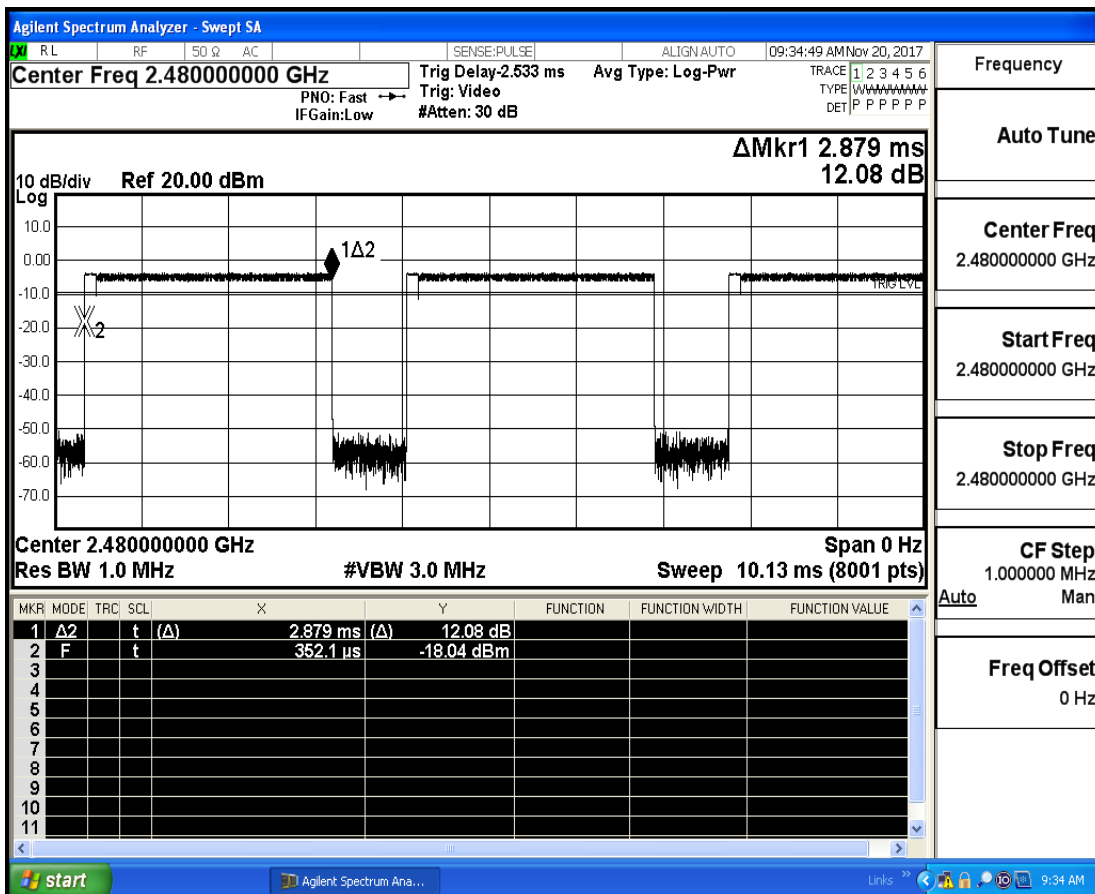
5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.88	106.7	0.307	0.4	PASS
DH5	2441	2.88	106.7	0.307	0.4	PASS
DH5	2480	2.88	106.7	0.307	0.4	PASS
2DH5	2402	2.88	106.7	0.307	0.4	PASS
2DH5	2441	2.88	106.7	0.307	0.4	PASS
2DH5	2480	2.88	106.7	0.307	0.4	PASS
3DH5	2402	2.88	106.7	0.307	0.4	PASS
3DH5	2441	2.88	106.7	0.307	0.4	PASS
3DH5	2480	2.88	106.7	0.307	0.4	PASS

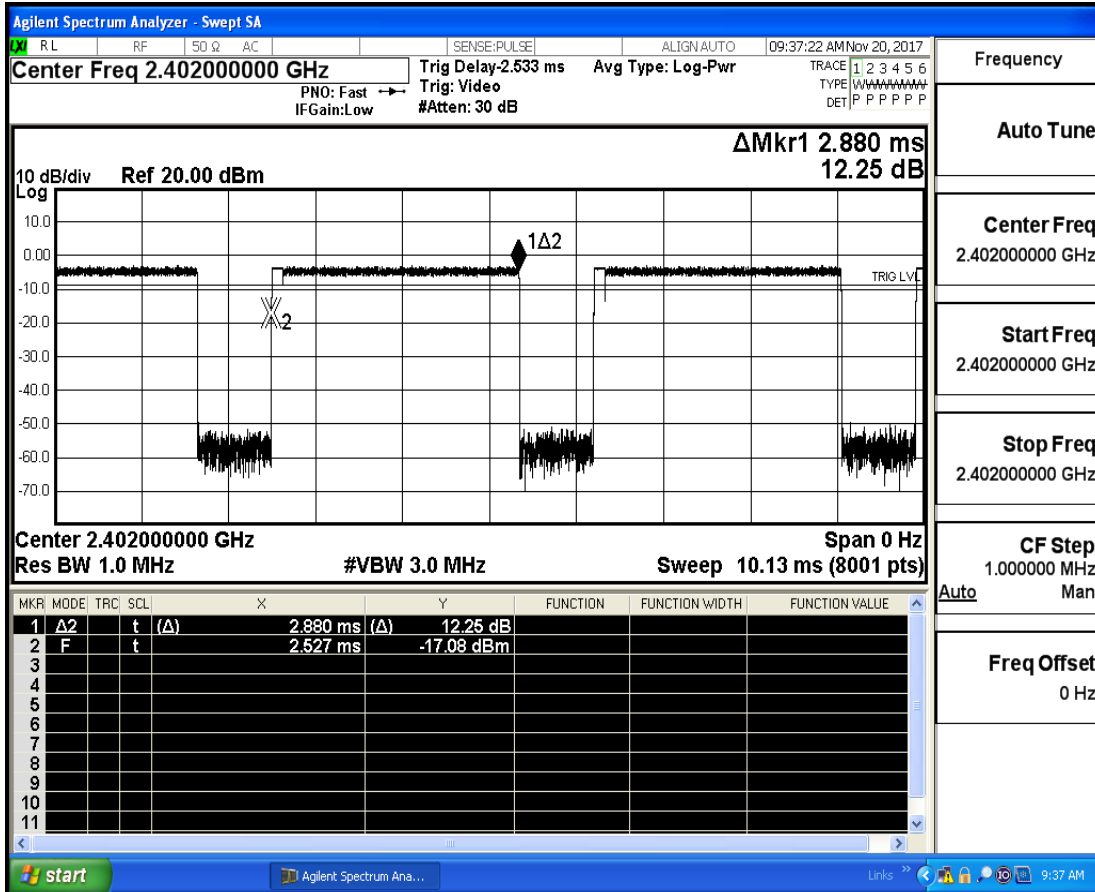
Dwell Time_2DH5_2441



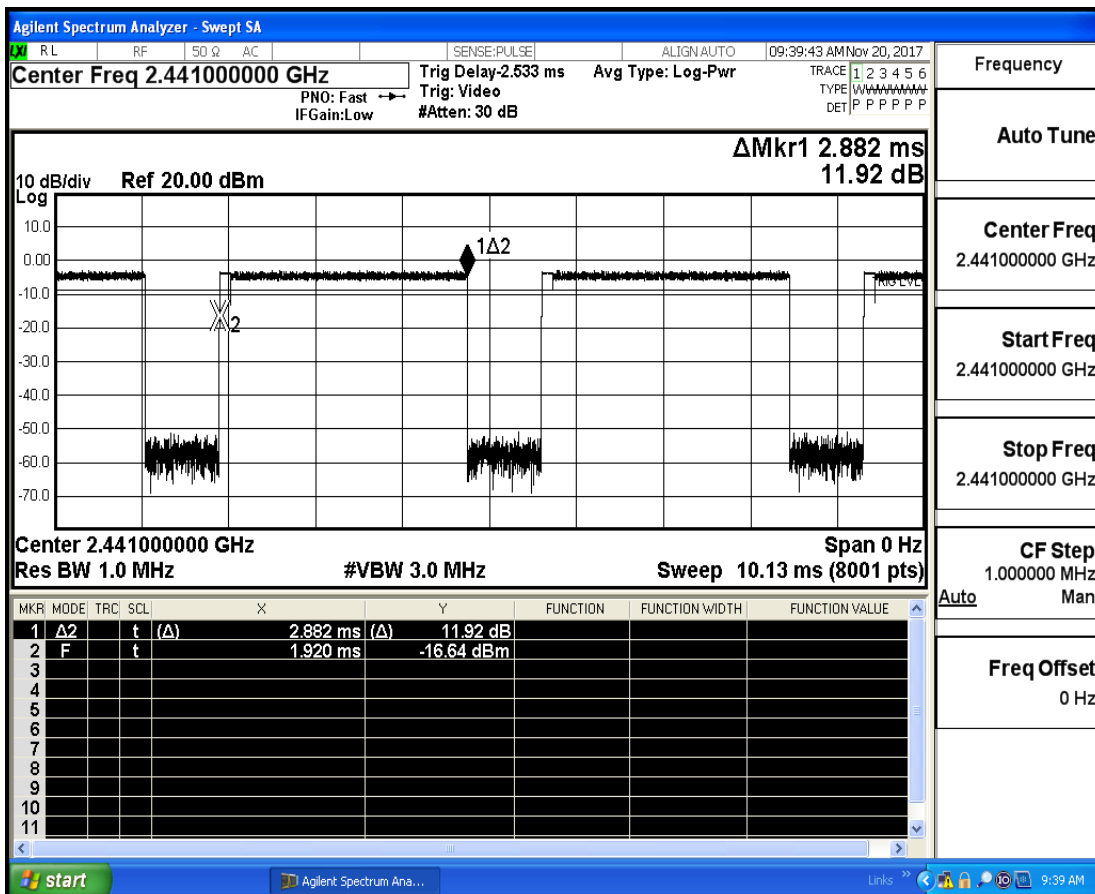
Dwell Time_2DH5_2480



Dwell Time_3DH5_2402



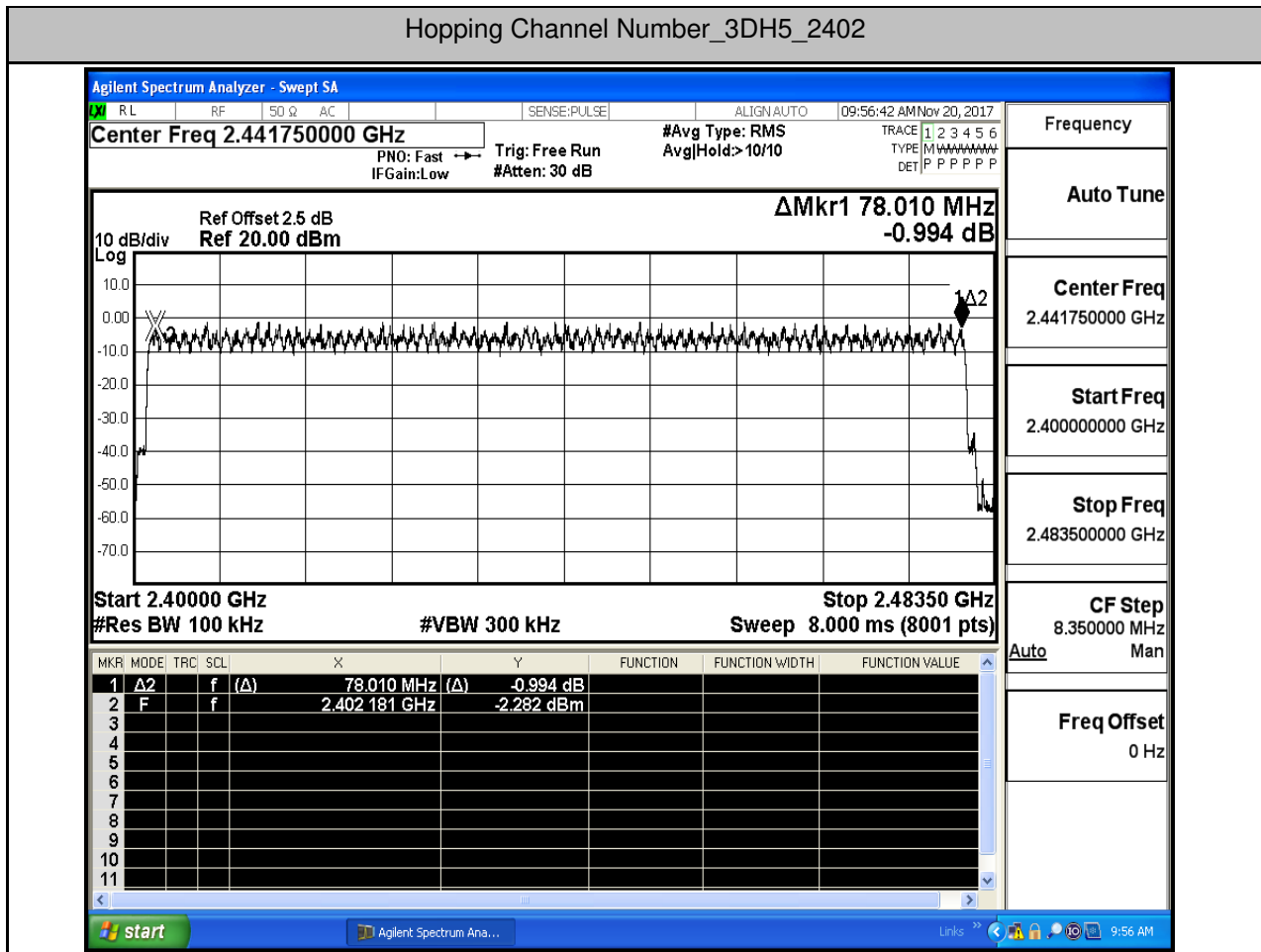
Dwell Time_3DH5_2441



6.Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	≥ 15	PASS
2DH5	2402	79	≥ 15	PASS
3DH5	2402	79	≥ 15	PASS

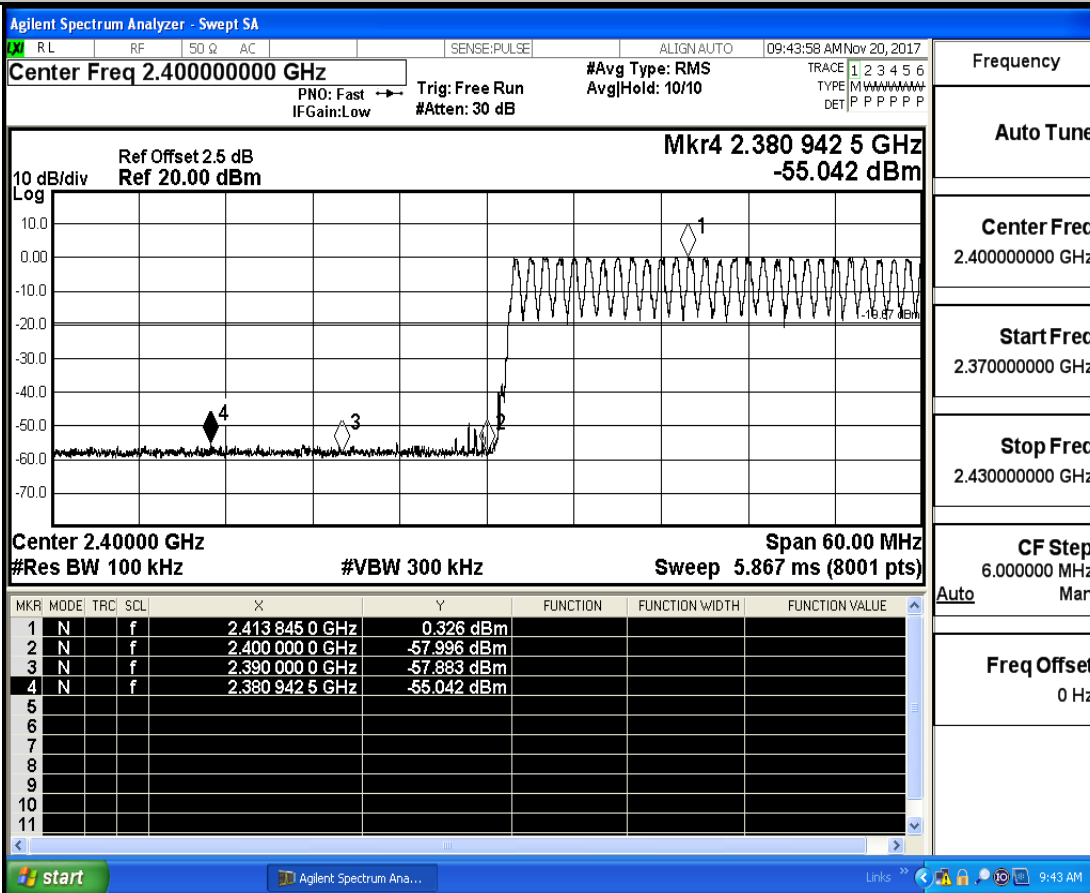
Hopping Channel Number_3DH5_2402



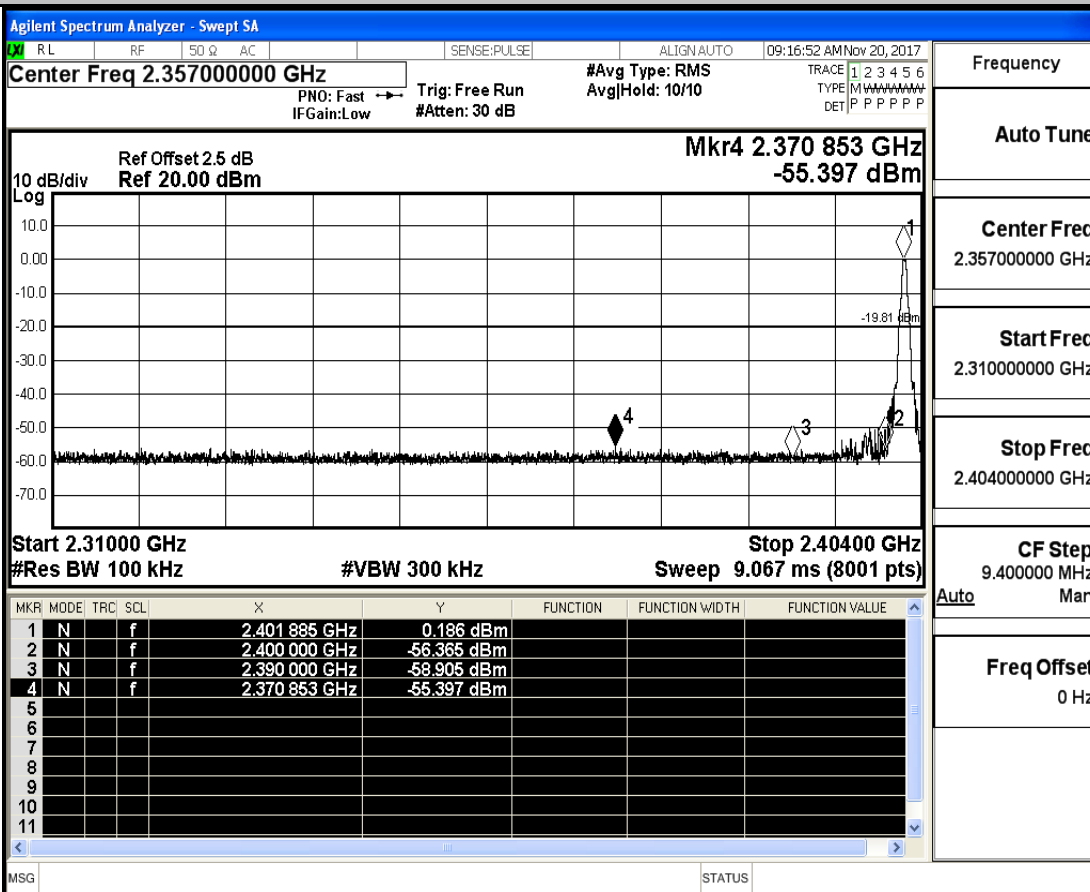
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	0.326	-55.042	-19.67	PASS
DH5	2402	Off	0.186	-55.397	-19.81	PASS
DH5	2480	On	0.073	-54.603	-19.93	PASS
DH5	2480	Off	-0.233	-49.550	-20.23	PASS
2DH5	2402	On	-1.142	-54.691	-21.14	PASS
2DH5	2402	Off	-2.237	-55.533	-22.24	PASS
2DH5	2480	On	-1.153	-52.221	-21.15	PASS
2DH5	2480	Off	-1.915	-53.866	-21.92	PASS
3DH5	2402	On	-1.219	-54.939	-21.22	PASS
3DH5	2402	Off	-1.203	-55.941	-21.2	PASS
3DH5	2480	On	-1.260	-54.537	-21.26	PASS
3DH5	2480	Off	-1.688	-53.320	-21.69	PASS

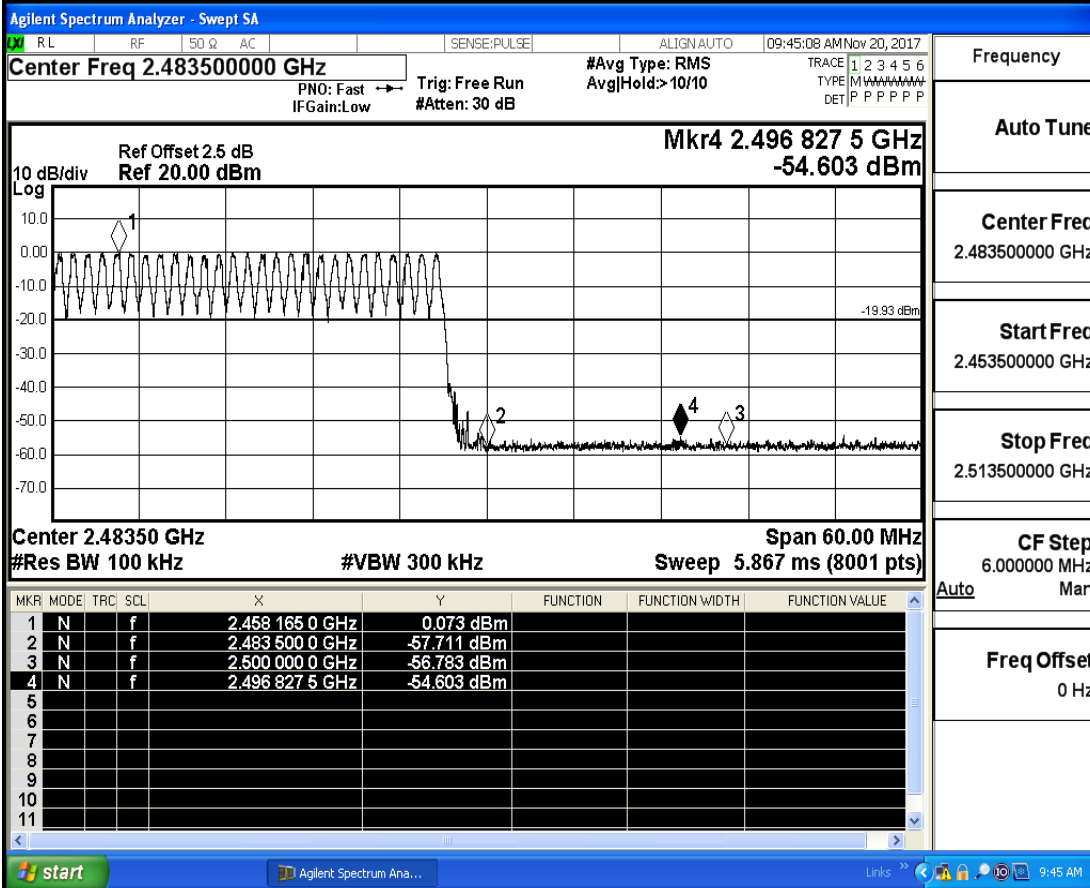
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off

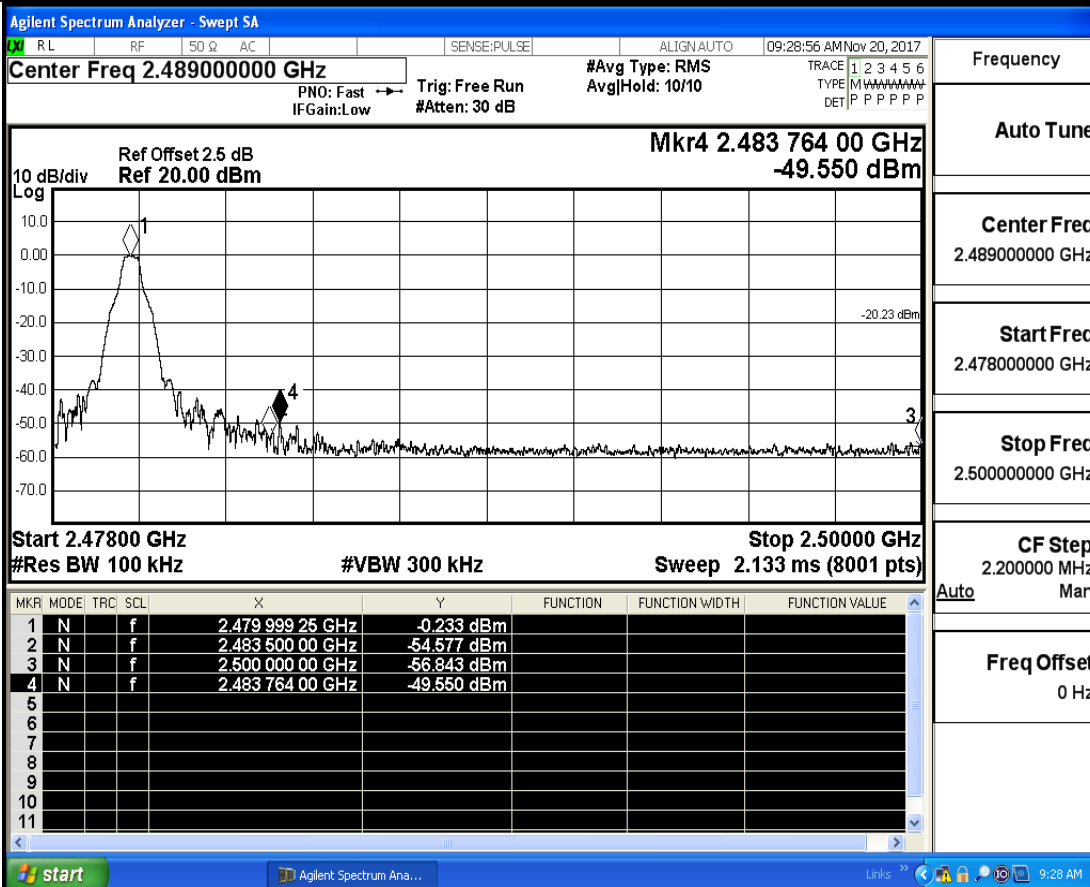


Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



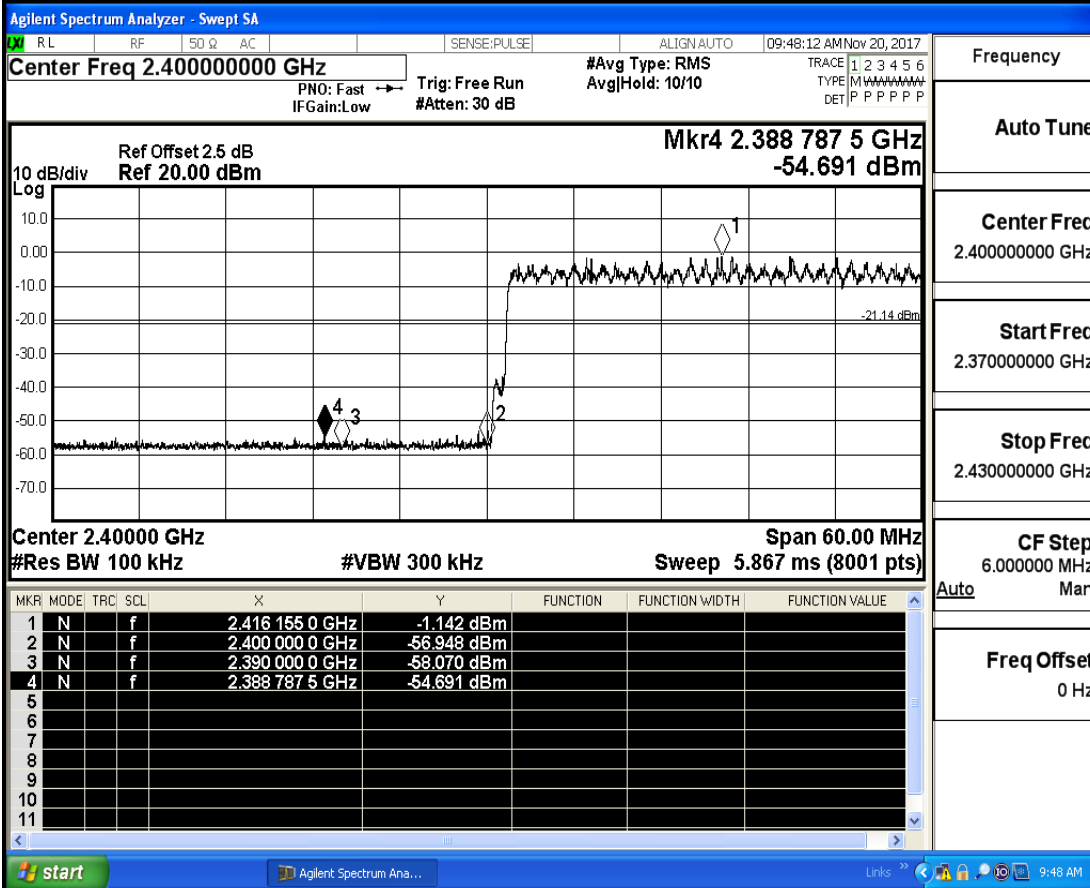
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



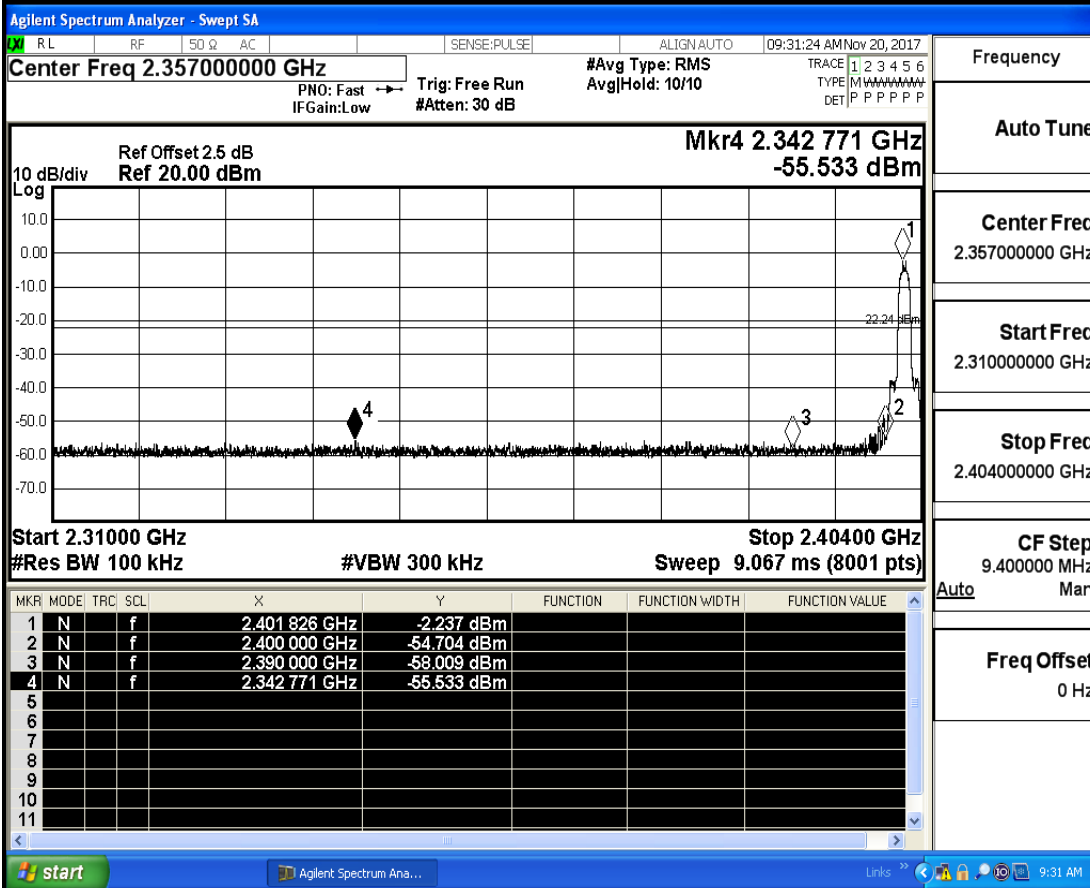
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



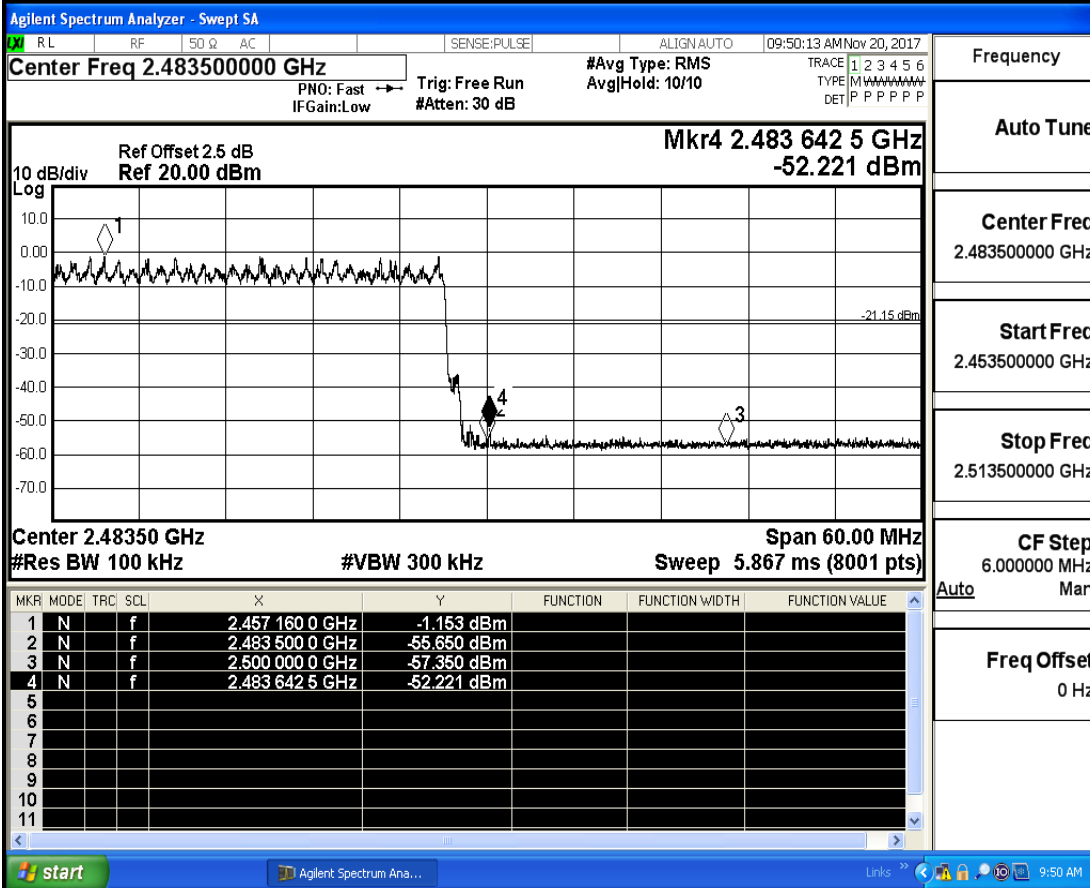
Frequency
Auto Tune
Center Freq 2.40000000 GHz
Start Freq 2.37000000 GHz
Stop Freq 2.43000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



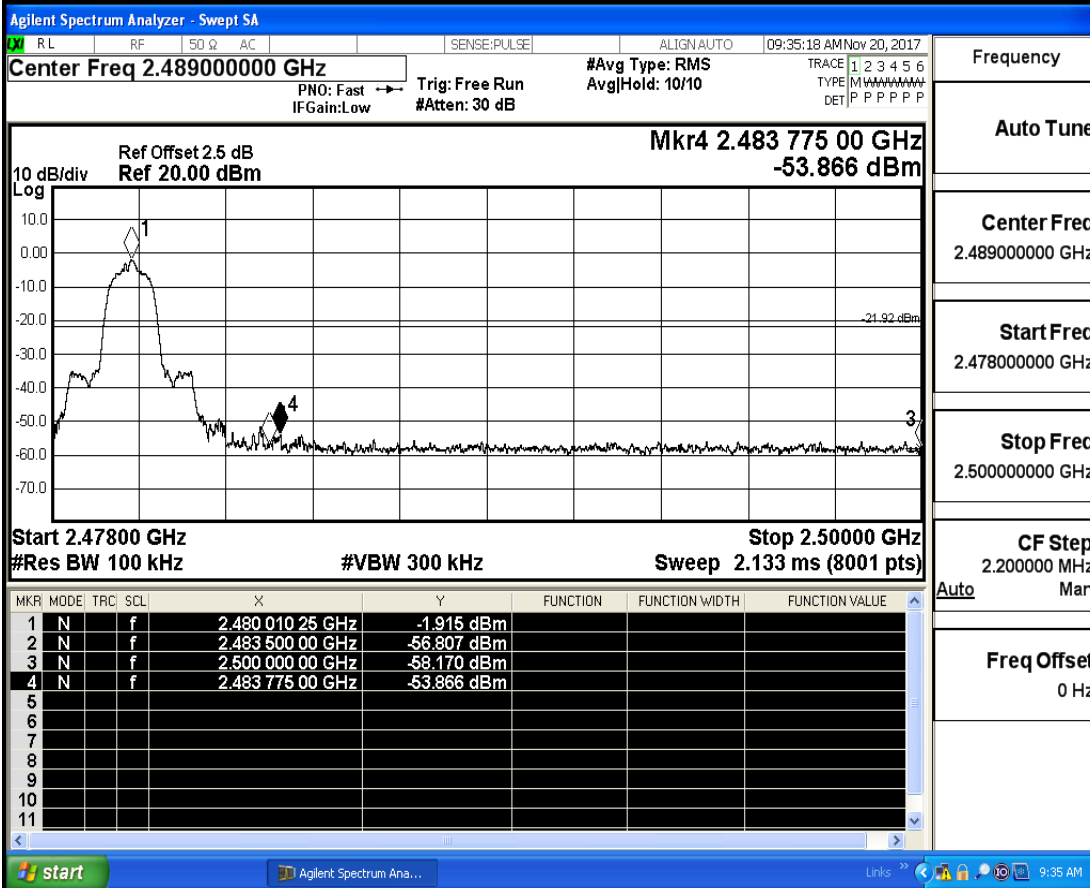
Frequency
Auto Tune
Center Freq 2.35700000 GHz
Start Freq 2.31000000 GHz
Stop Freq 2.40400000 GHz
CF Step 9.400000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



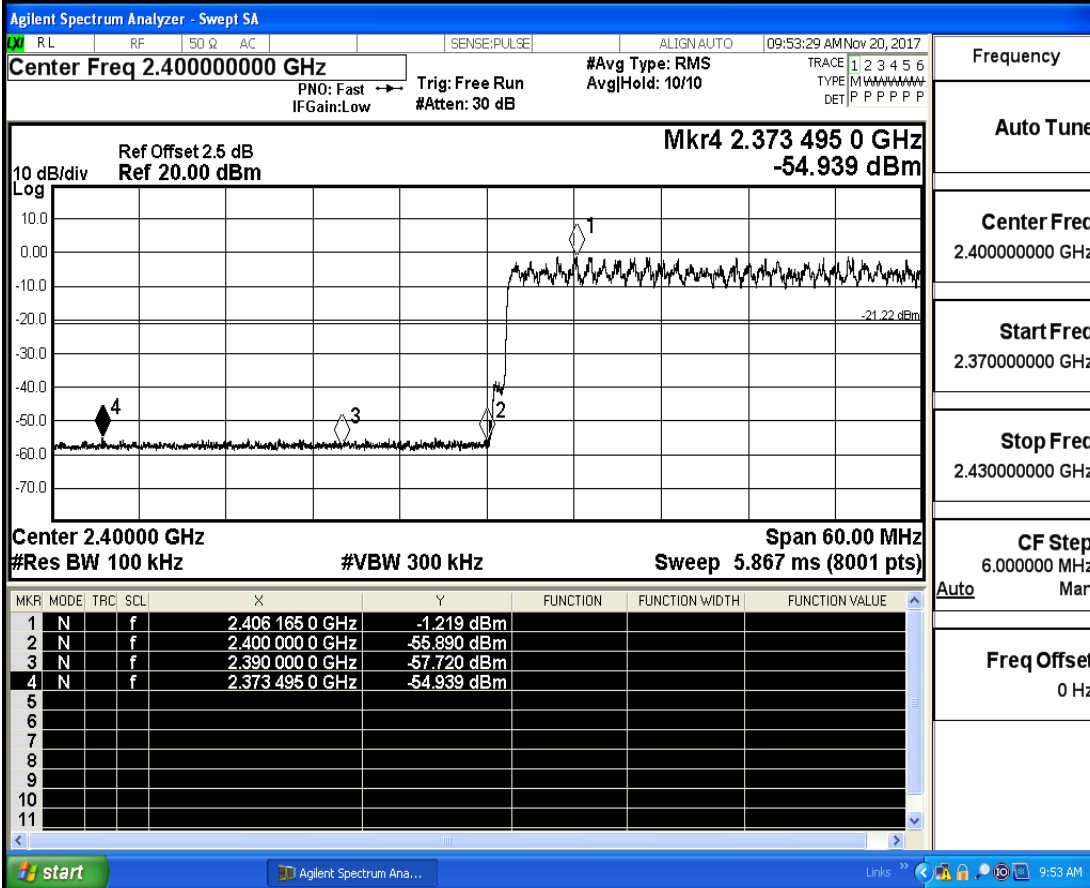
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



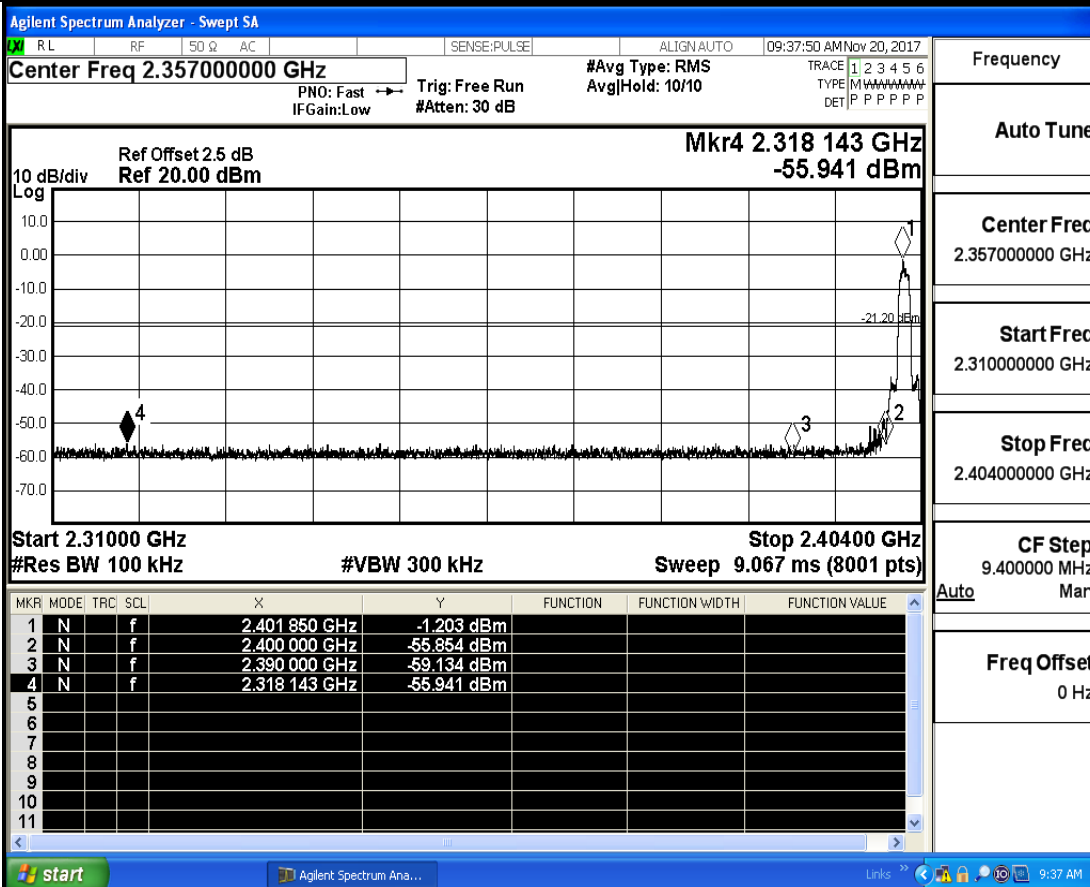
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



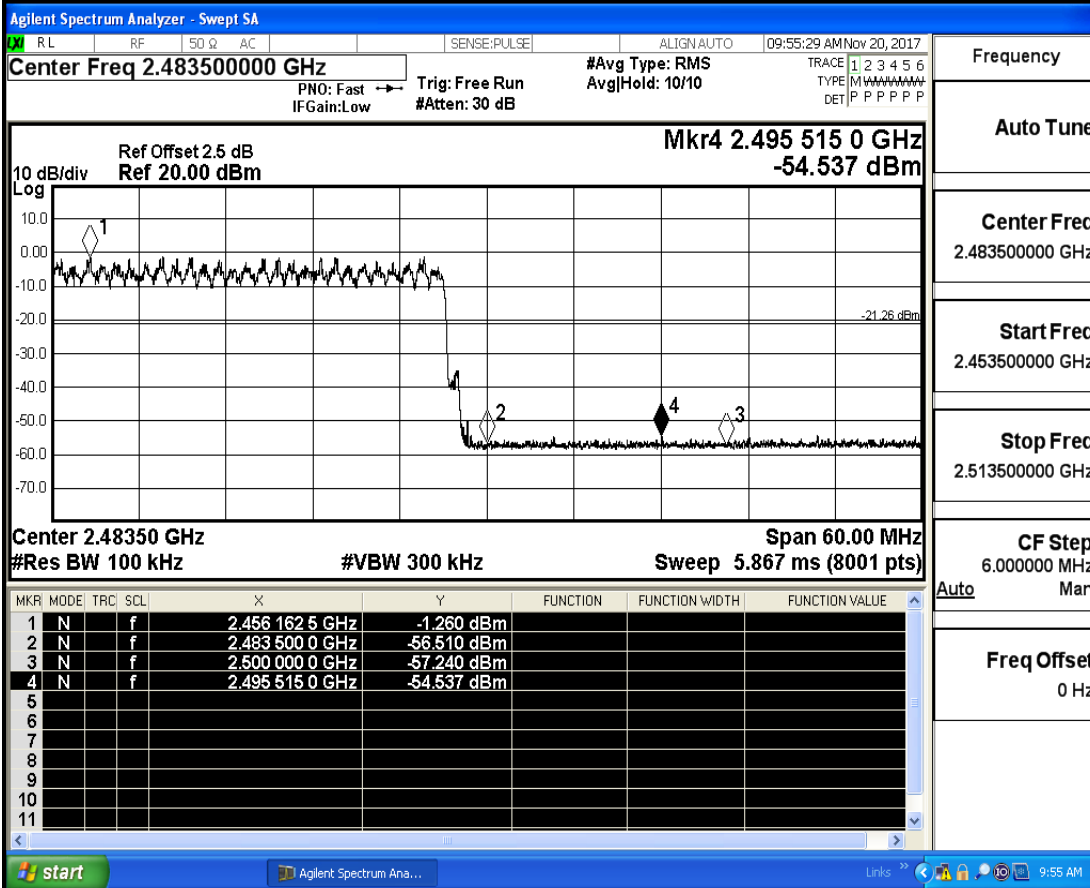
Frequency	
Auto Tune	
Center Freq	2.40000000 GHz
Start Freq	2.37000000 GHz
Stop Freq	2.43000000 GHz
CF Step	6.000000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



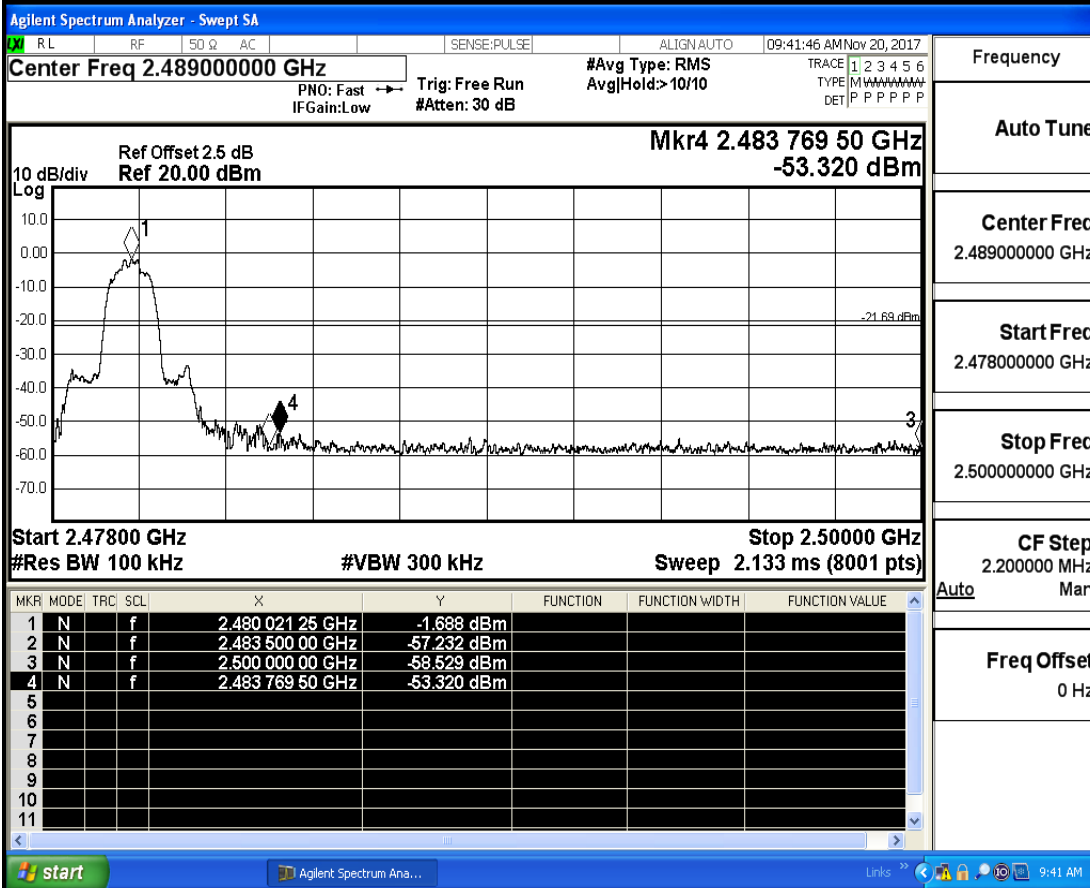
Frequency	
Auto Tune	
Center Freq	2.35700000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.40400000 GHz
CF Step	9.400000 MHz
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_3DH5_2480_Hopping On



Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off

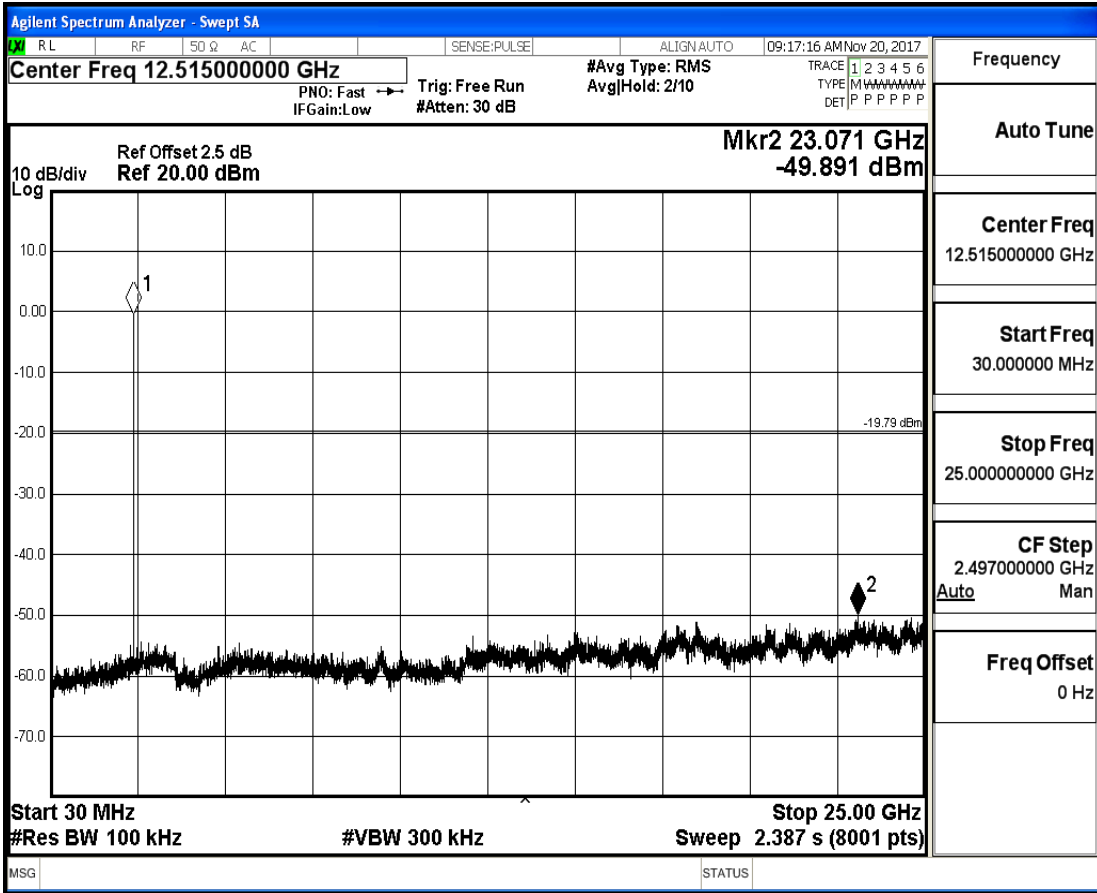
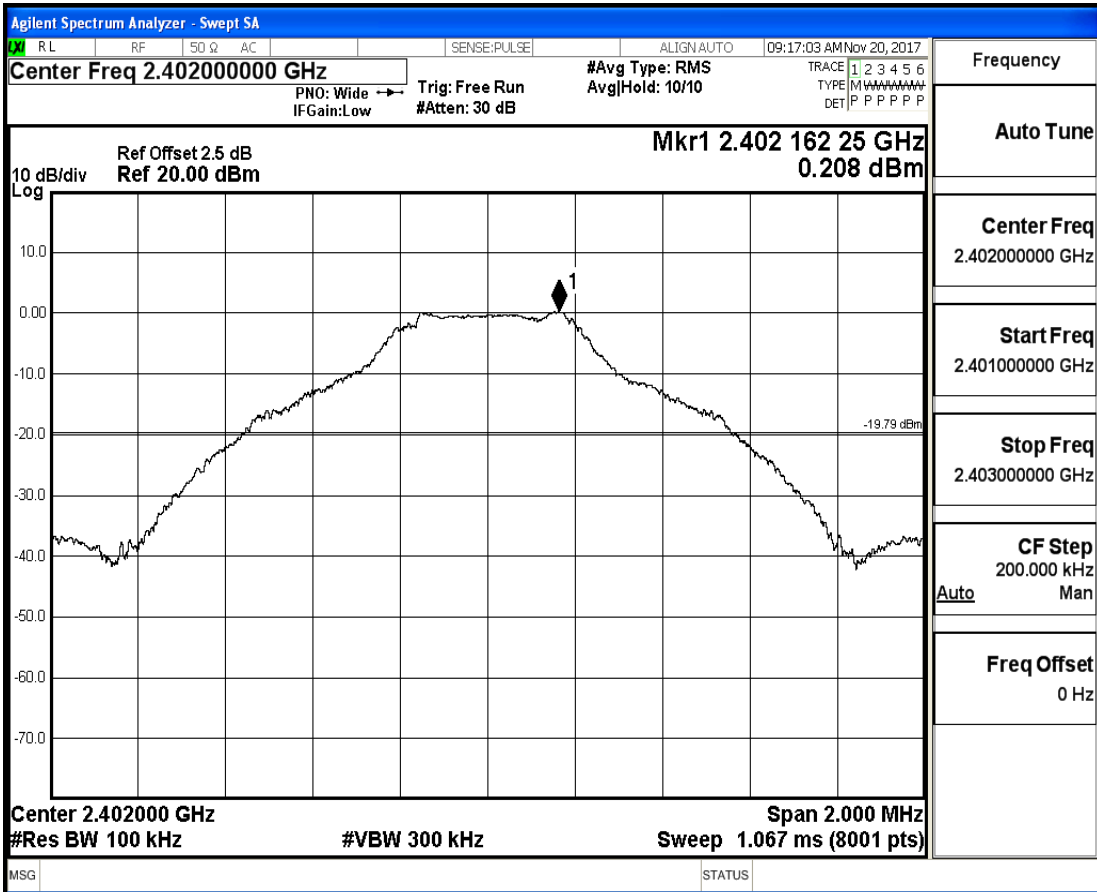


Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

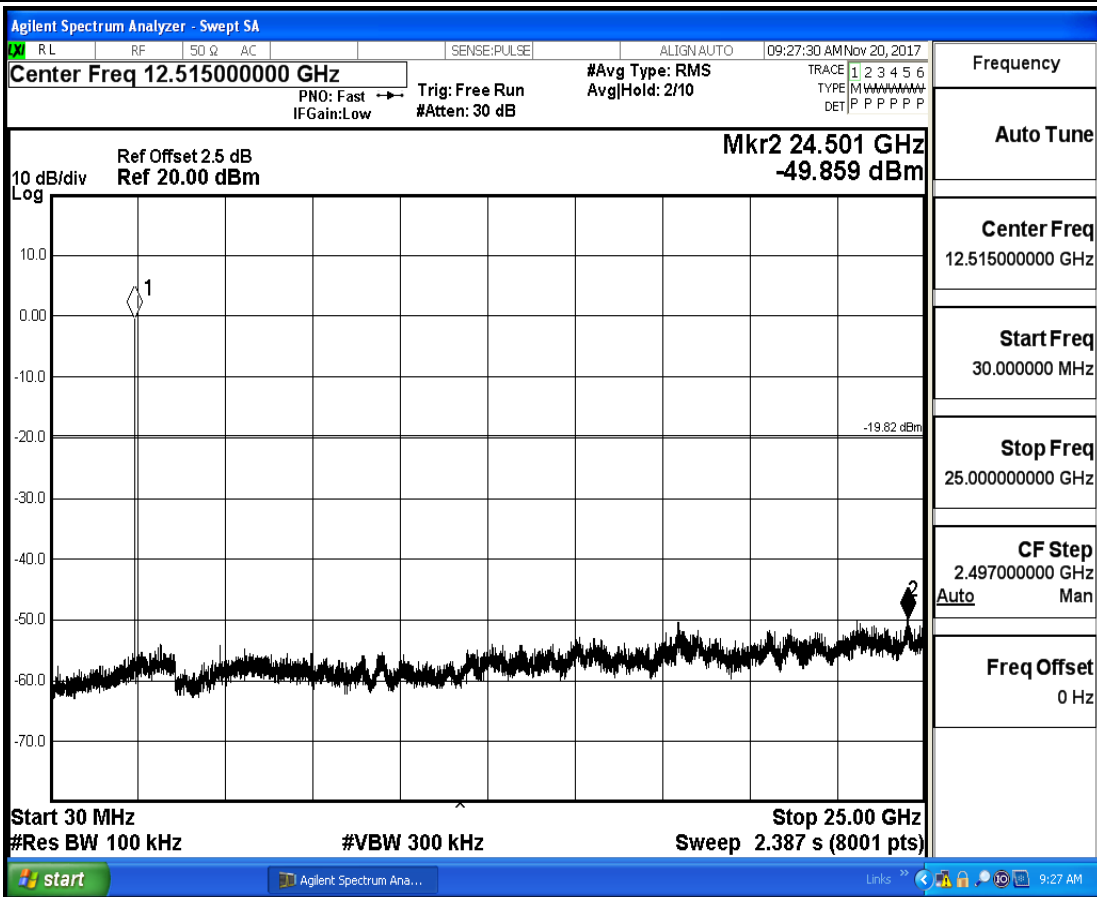
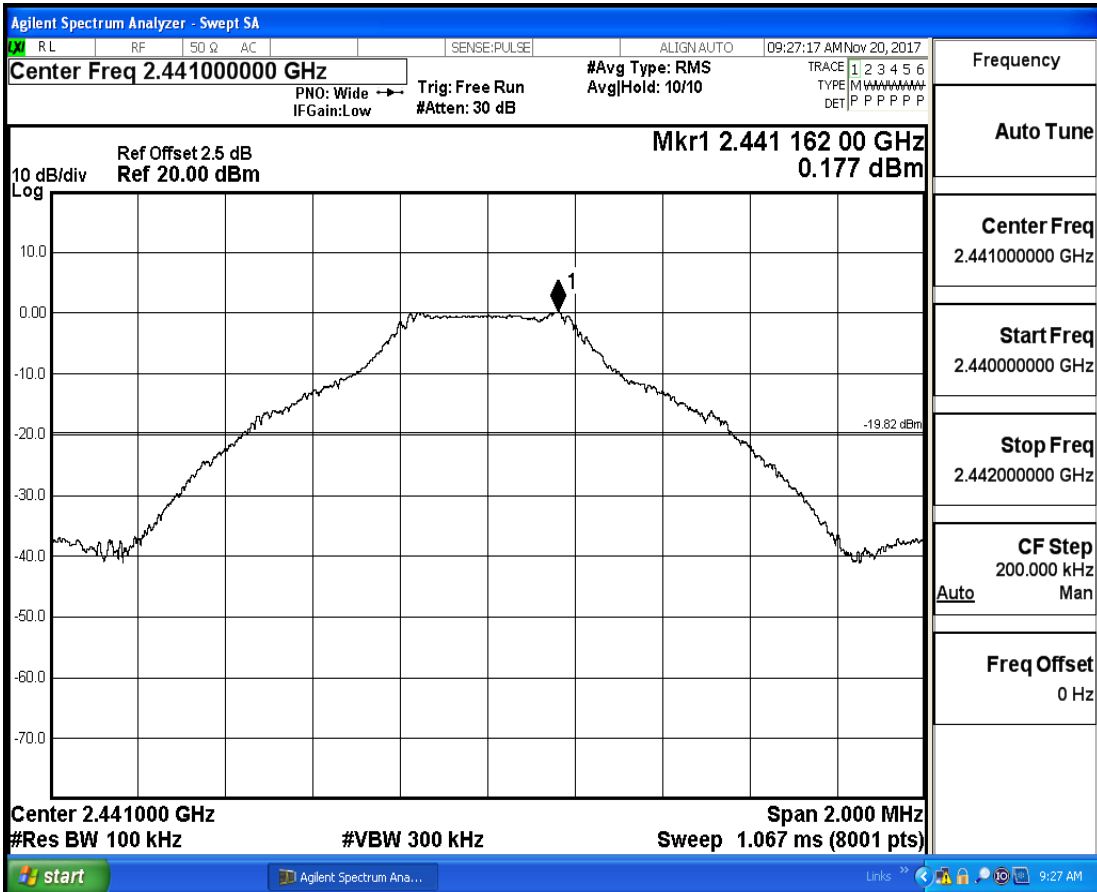
8.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	25000	100	300	0.208	-49.891	<-19.792	PASS
DH5	2441	30	25000	100	300	0.177	-49.859	<-19.823	PASS
DH5	2480	30	25000	100	300	-0.208	-49.941	<-20.208	PASS
2DH5	2402	30	25000	100	300	-1.305	-50.196	<-21.305	PASS
2DH5	2441	30	25000	100	300	-1.331	-50.432	<-21.331	PASS
2DH5	2480	30	25000	100	300	-1.495	-49.904	<-21.495	PASS
3DH5	2402	30	25000	100	300	-1.787	-49.954	<-21.787	PASS
3DH5	2441	30	25000	100	300	-1.344	-50.351	<-21.344	PASS
3DH5	2480	30	25000	100	300	-1.46	-50.366	<-21.46	PASS

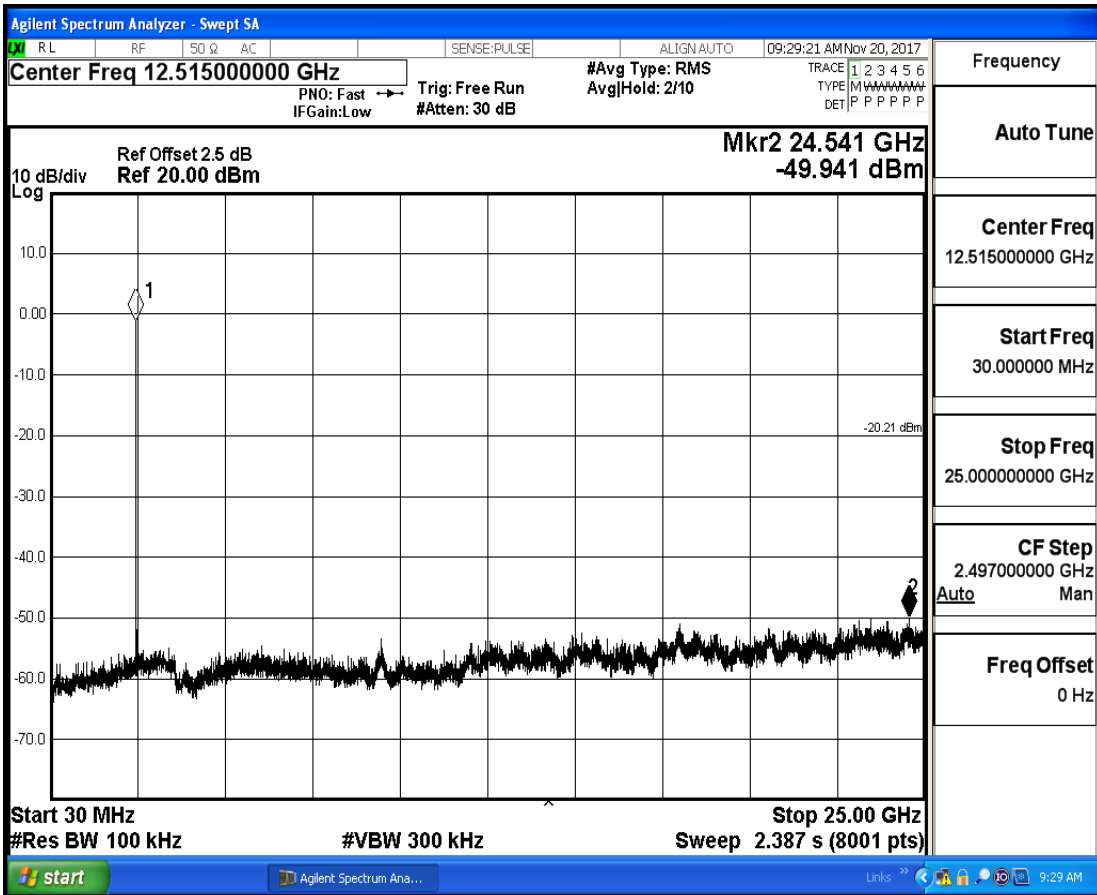
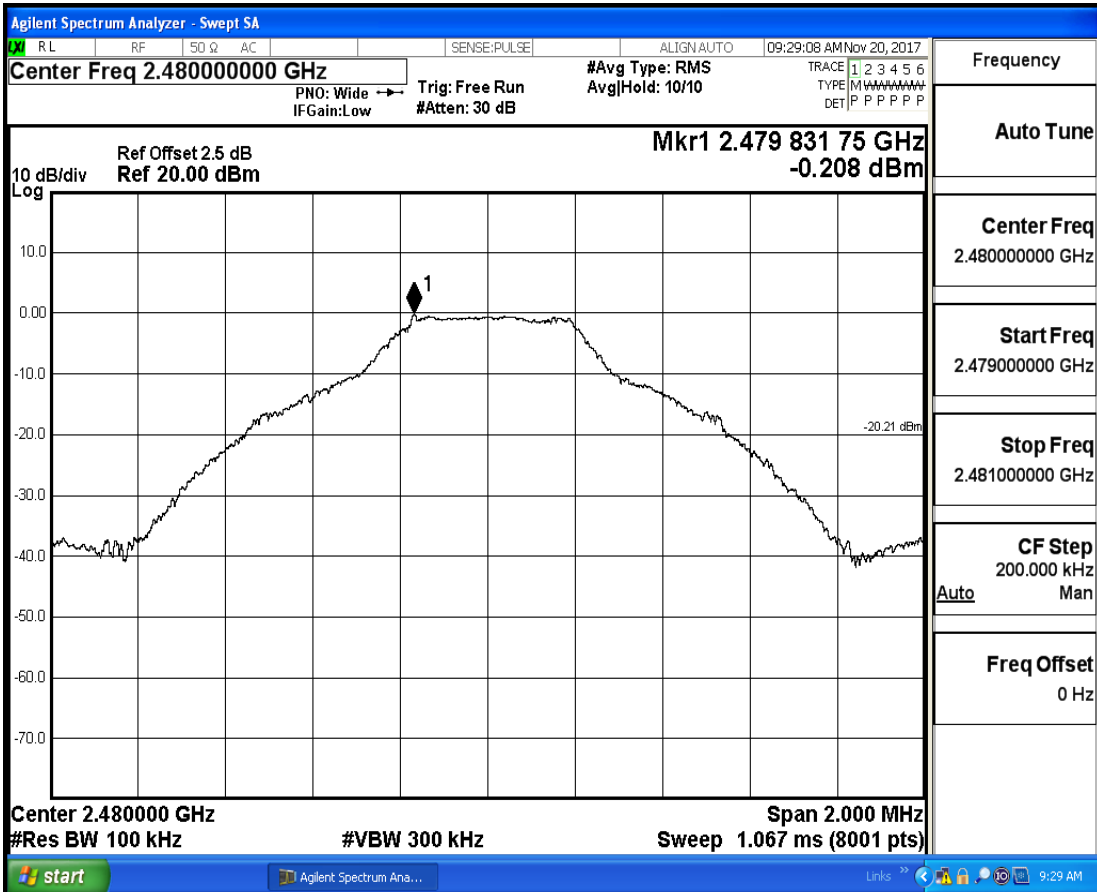
RF Conducted Spurious Emissions_DH5_2402



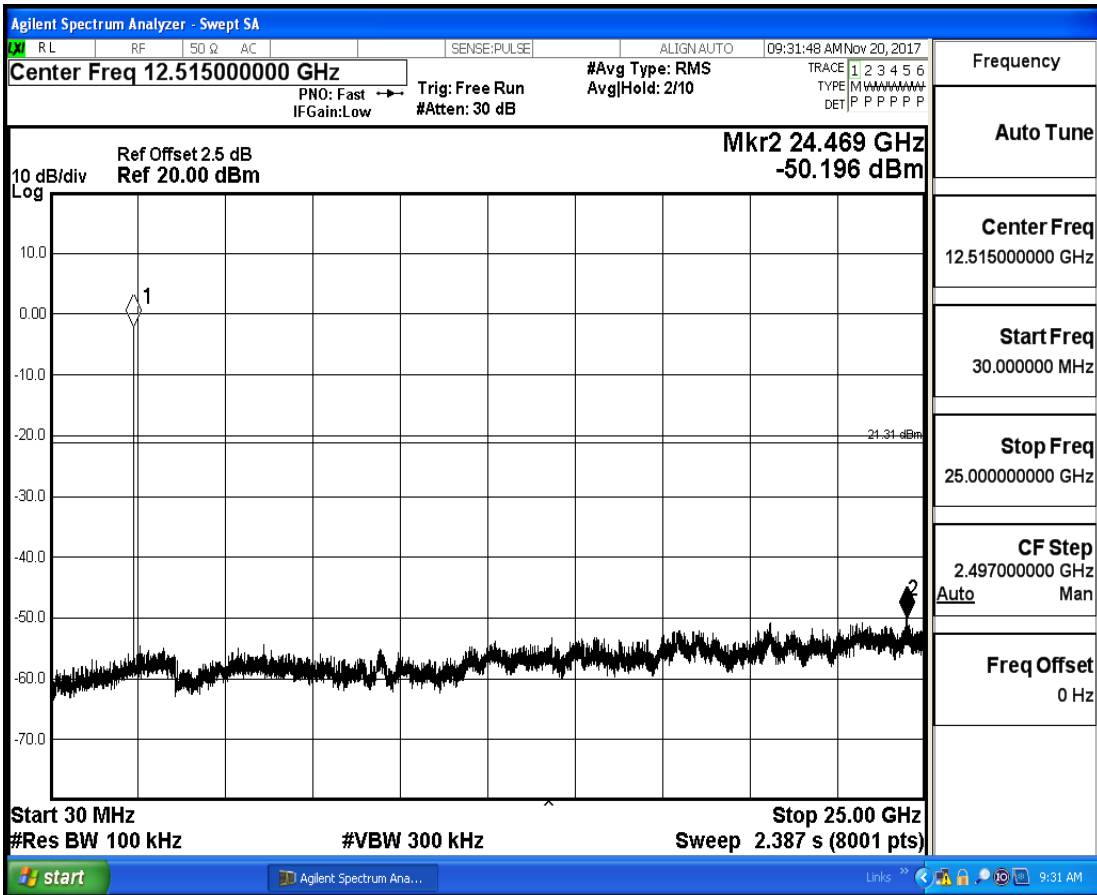
RF Conducted Spurious Emissions_DH5_2441



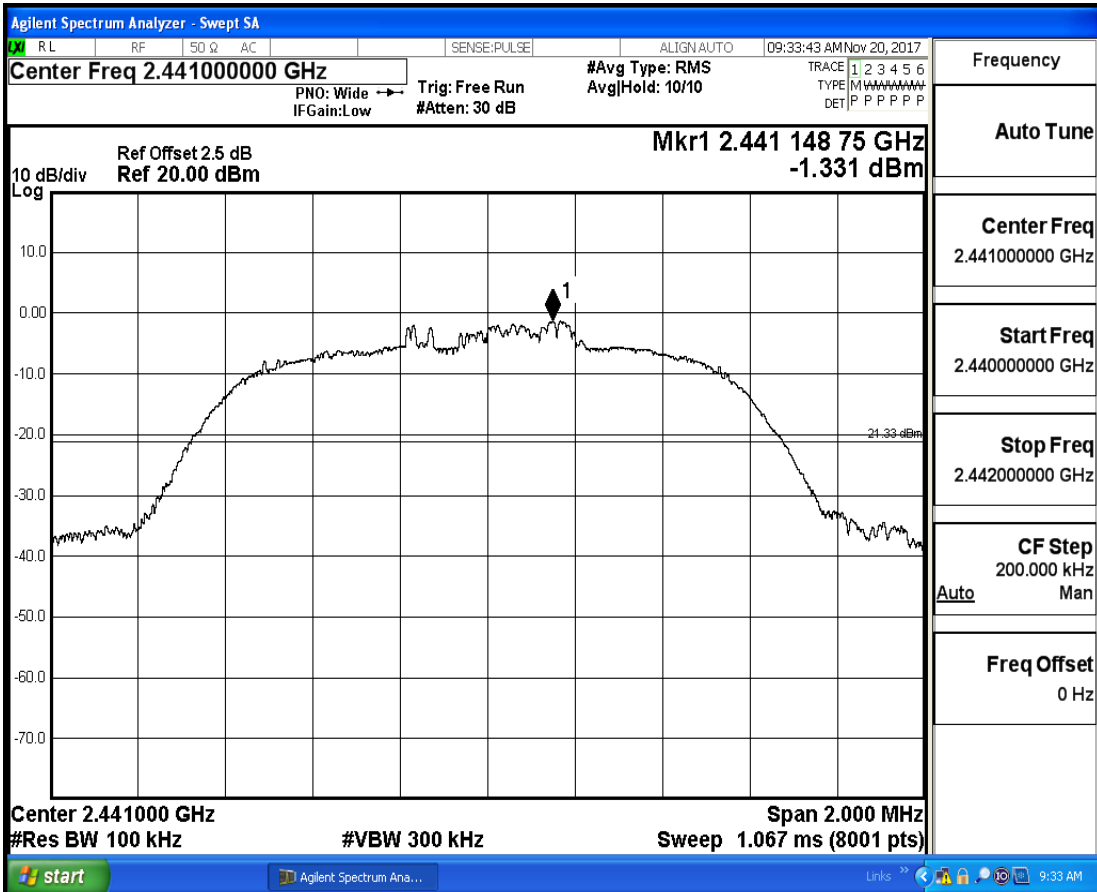
RF Conducted Spurious Emissions_DH5_2480



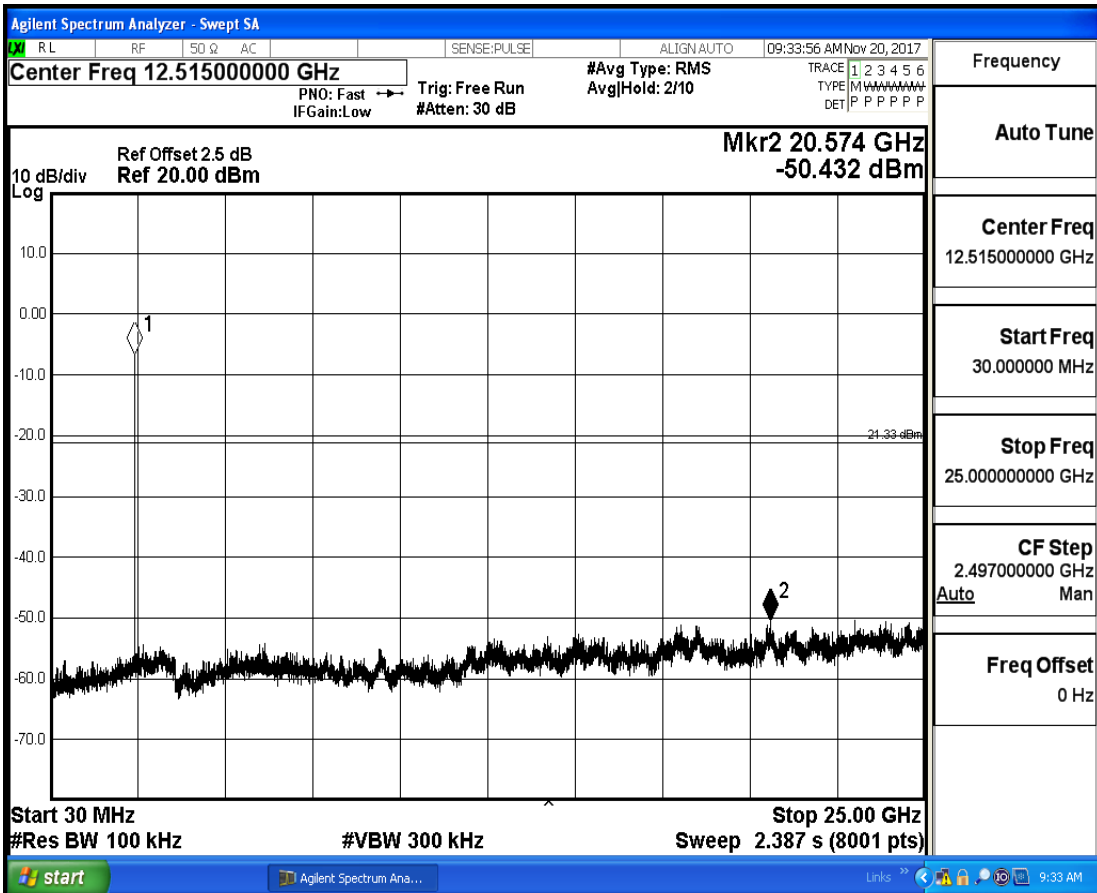
RF Conducted Spurious Emissions_2DH5_2402



RF Conducted Spurious Emissions_2DH5_2441

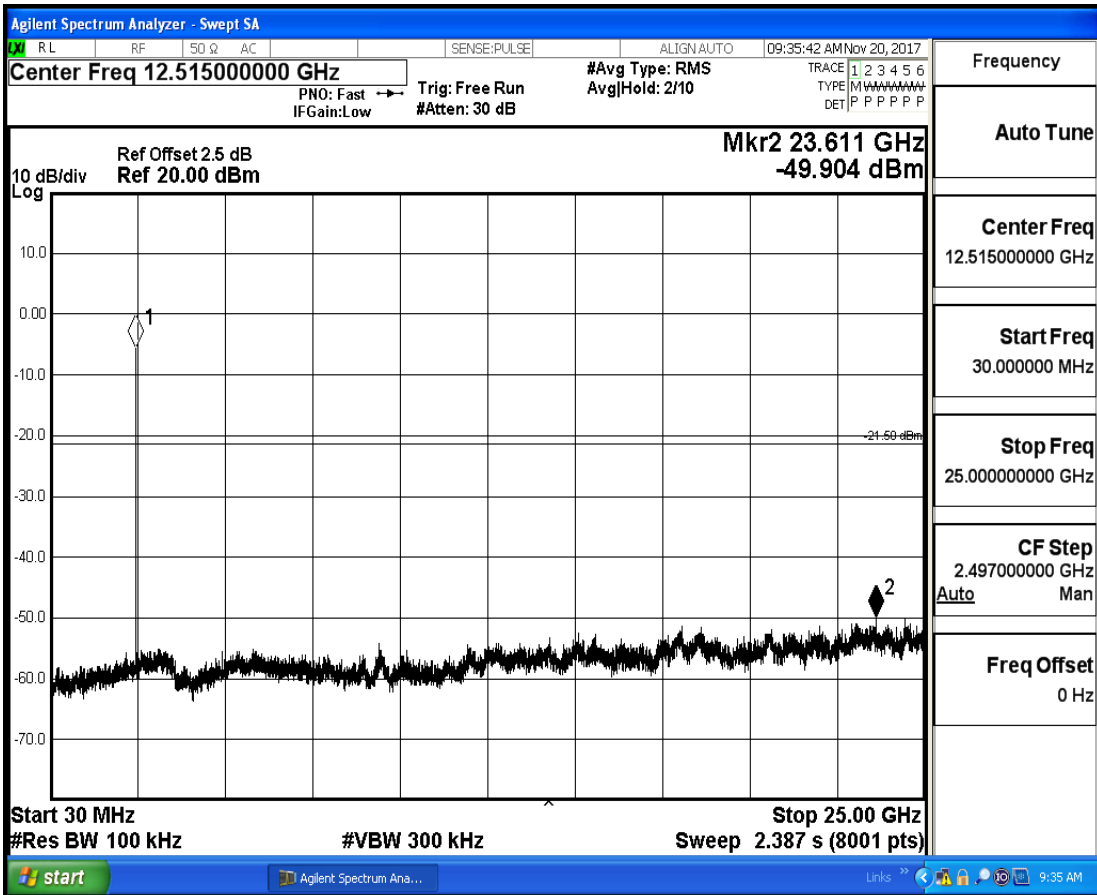
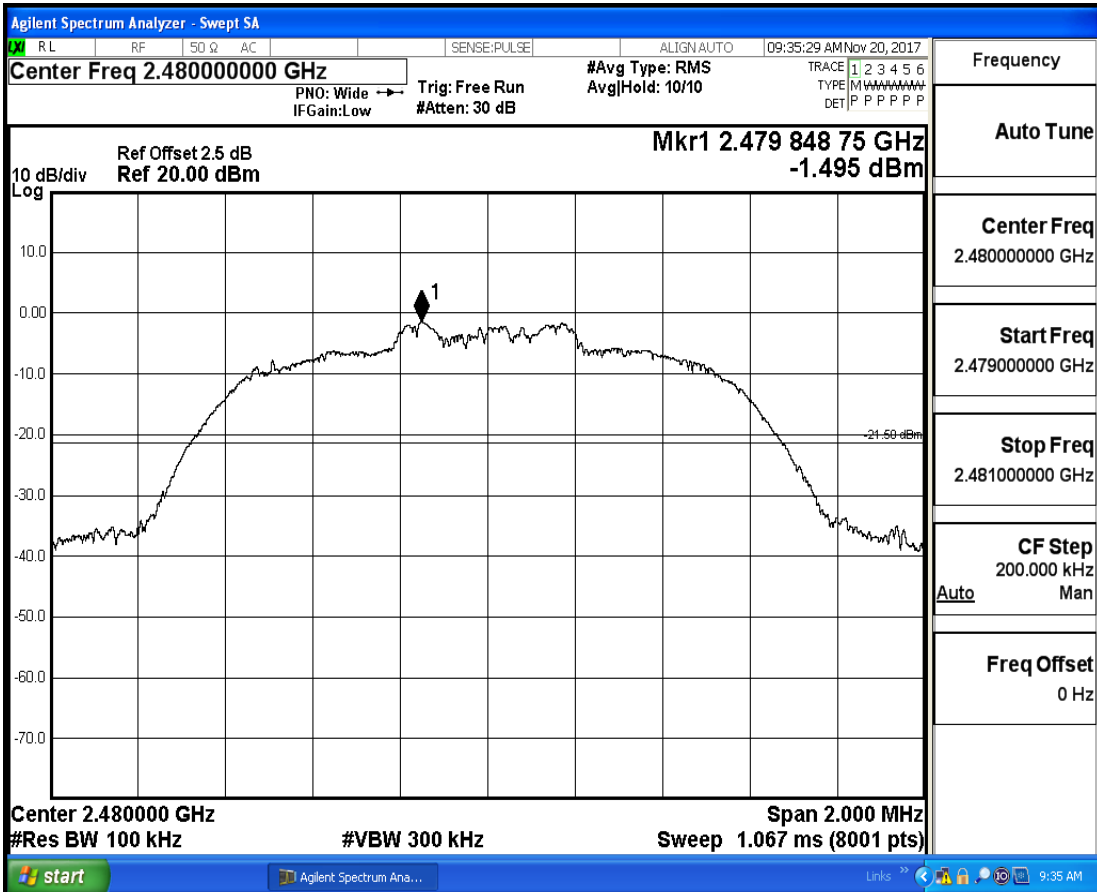


Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.440000000 GHz
Stop Freq 2.442000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

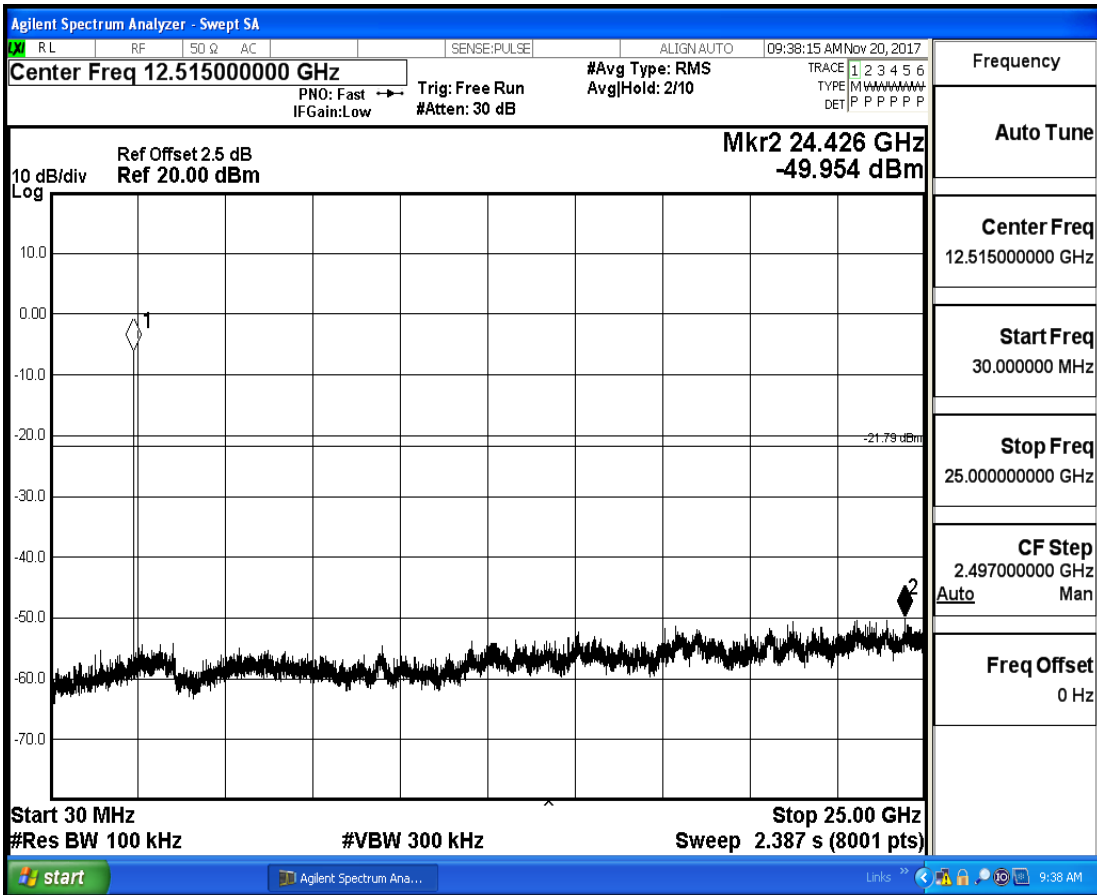
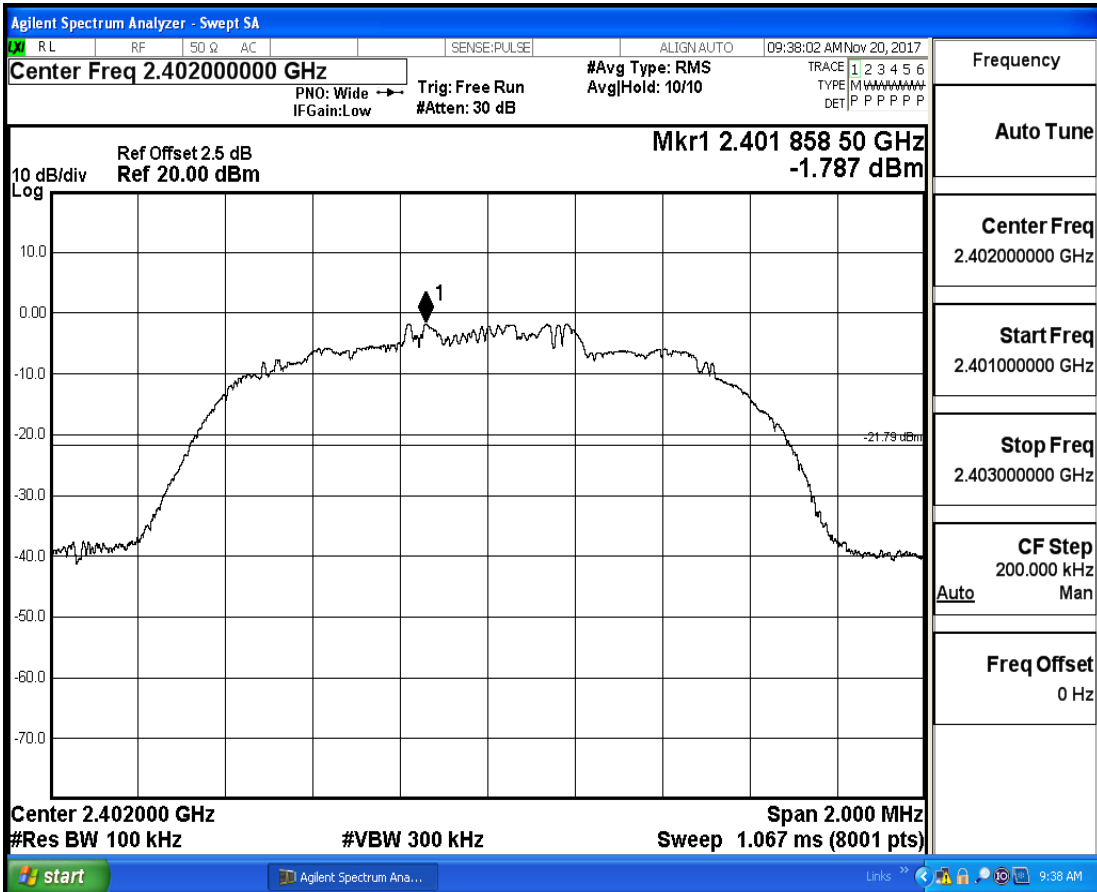


Frequency
Auto Tune
Center Freq 12.515000000 GHz
Start Freq 30.000000 MHz
Stop Freq 25.000000000 GHz
CF Step 2.497000000 GHz Auto Man
Freq Offset 0 Hz

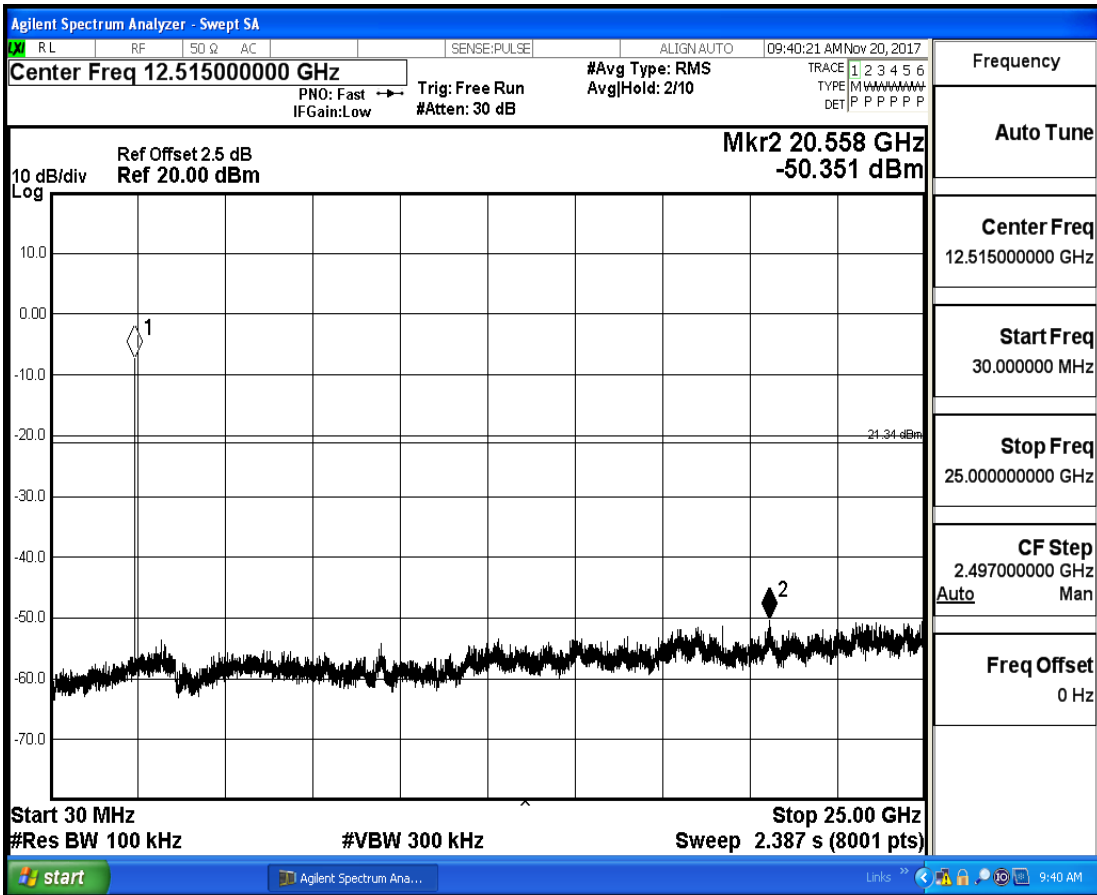
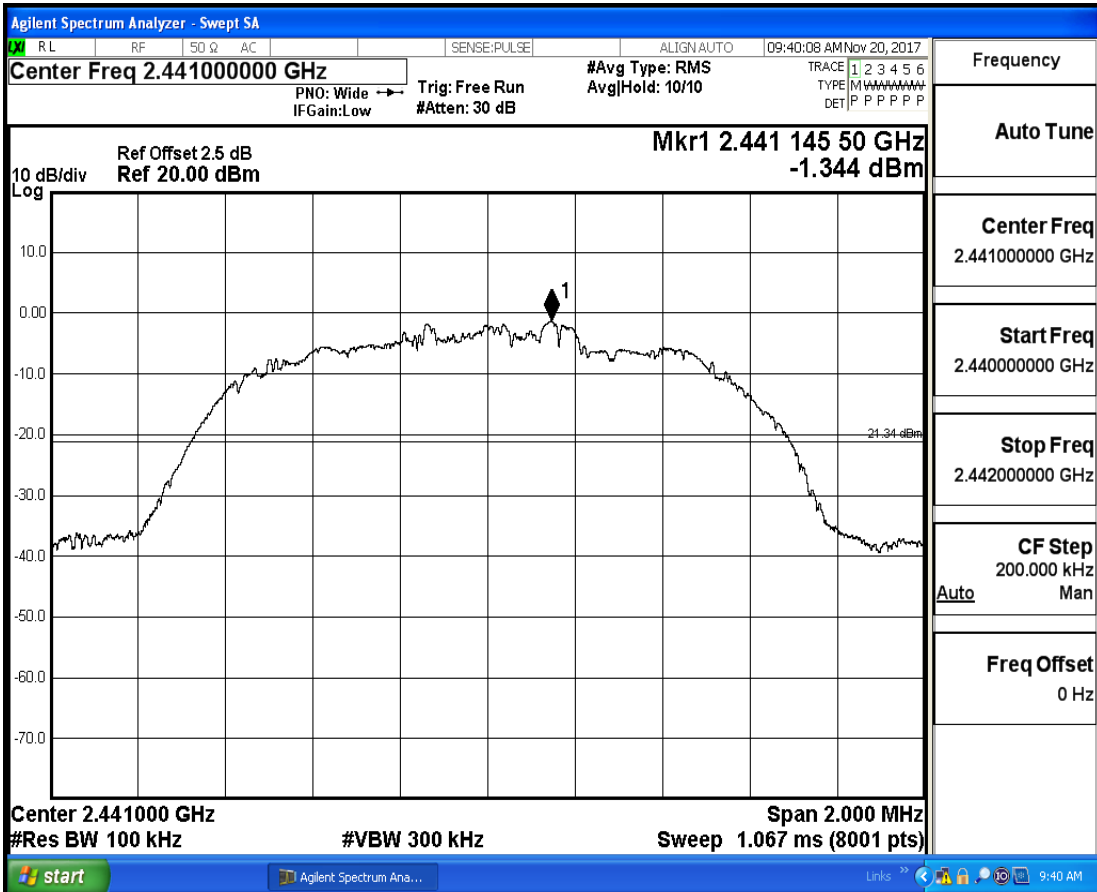
RF Conducted Spurious Emissions_2DH5_2480



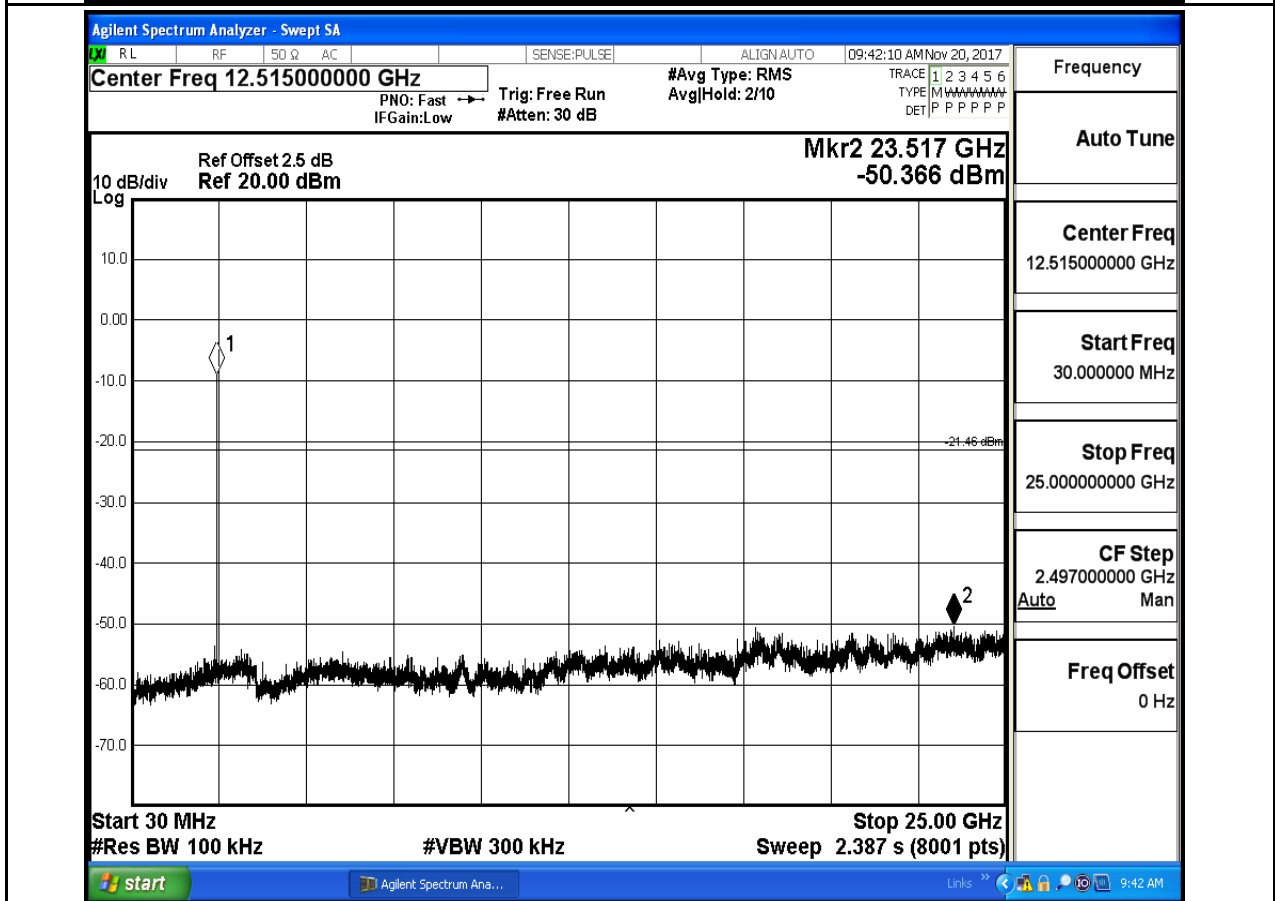
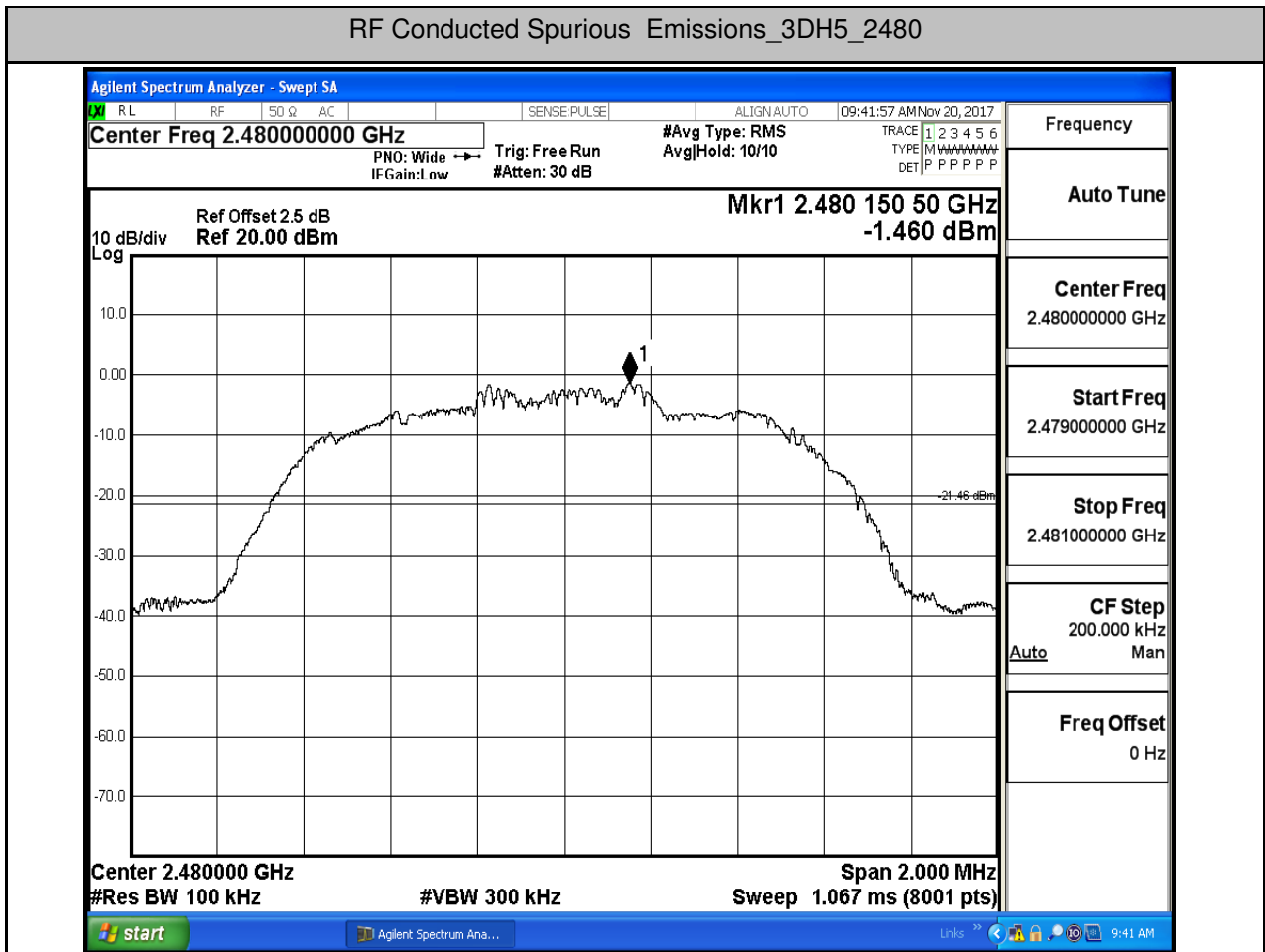
RF Conducted Spurious Emissions_3DH5_2402



RF Conducted Spurious Emissions_3DH5_2441



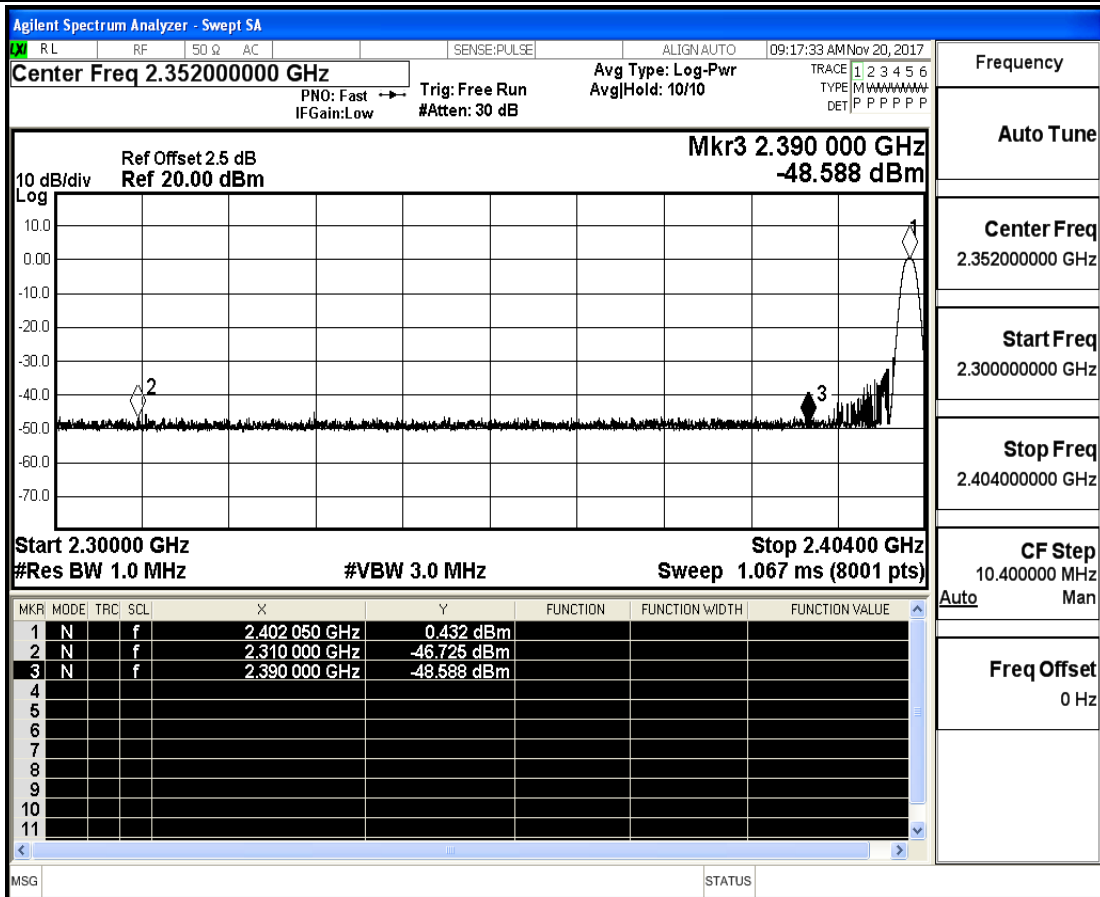
RF Conducted Spurious Emissions_3DH5_2480



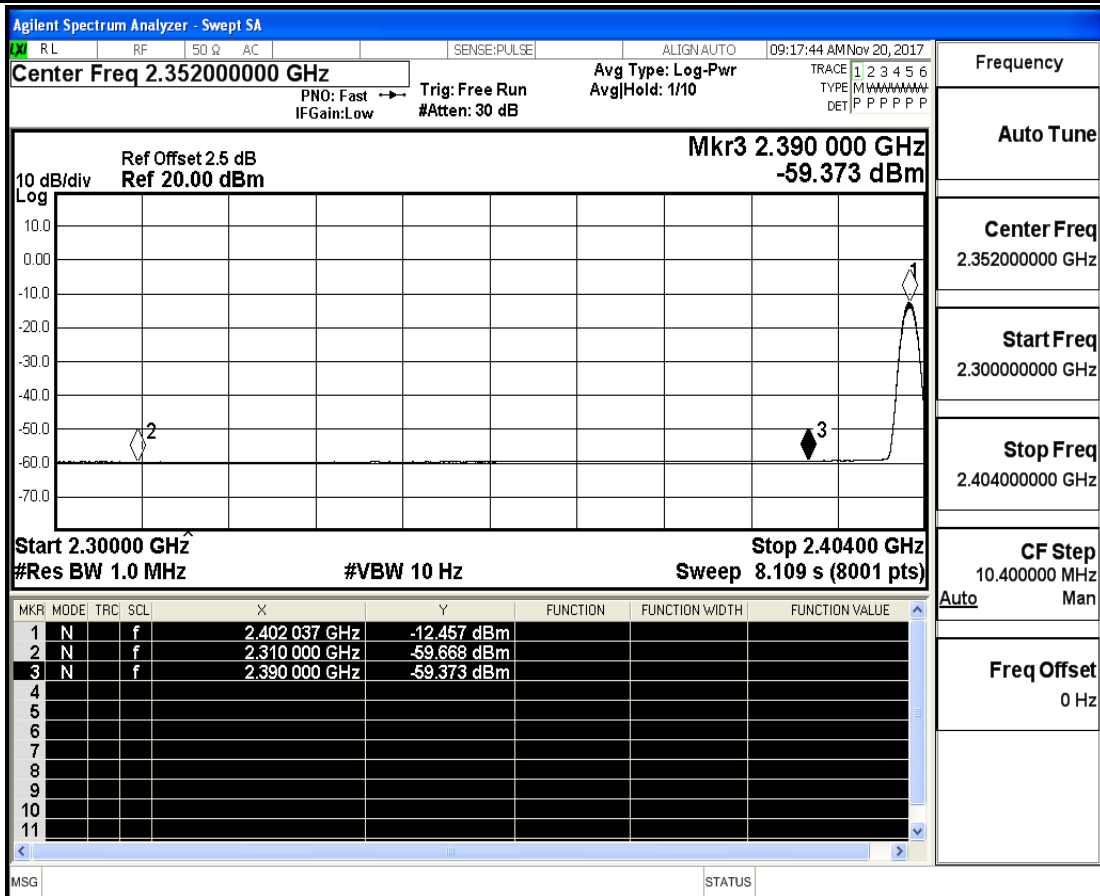
9.Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
DH5	On	2310.0	-46.73	2.0	0	48.53	PEAK	74	PASS
DH5	On	2310.0	-59.67	2.0	0	35.59	AV	54	PASS
DH5	On	2390.0	-48.59	2.0	0	46.67	PEAK	74	PASS
DH5	On	2390.0	-59.37	2.0	0	35.88	AV	54	PASS
DH5	On	2483.5	-46.83	2.0	0	48.43	PEAK	74	PASS
DH5	On	2483.5	-58.88	2.0	0	36.37	AV	54	PASS
DH5	On	2500.0	-47.88	2.0	0	47.38	PEAK	74	PASS
DH5	On	2500.0	-59.02	2.0	0	36.24	AV	54	PASS
2DH5	On	2310.0	-49.30	2.0	0	45.96	PEAK	74	PASS
2DH5	On	2310.0	-59.64	2.0	0	35.61	AV	54	PASS
2DH5	On	2390.0	-48.69	2.0	0	46.57	PEAK	74	PASS
2DH5	On	2390.0	-59.32	2.0	0	35.94	AV	54	PASS
2DH5	On	2483.5	-40.49	2.0	0	54.77	PEAK	74	PASS
2DH5	On	2483.5	-58.73	2.0	0	36.53	AV	54	PASS
2DH5	On	2500.0	-48.86	2.0	0	46.40	PEAK	74	PASS
2DH5	On	2500.0	-58.97	2.0	0	36.29	AV	54	PASS
3DH5	On	2310.0	-49.21	2.0	0	46.05	PEAK	74	PASS
3DH5	On	2310.0	-59.63	2.0	0	35.63	AV	54	PASS
3DH5	On	2390.0	-48.87	2.0	0	46.39	PEAK	74	PASS
3DH5	On	2390.0	-59.33	2.0	0	35.93	AV	54	PASS
3DH5	On	2483.5	-39.99	2.0	0	55.27	PEAK	74	PASS
3DH5	On	2483.5	-58.71	2.0	0	36.55	AV	54	PASS
3DH5	On	2500.0	-47.73	2.0	0	47.52	PEAK	74	PASS
3DH5	On	2500.0	-59.01	2.0	0	36.25	AV	54	PASS

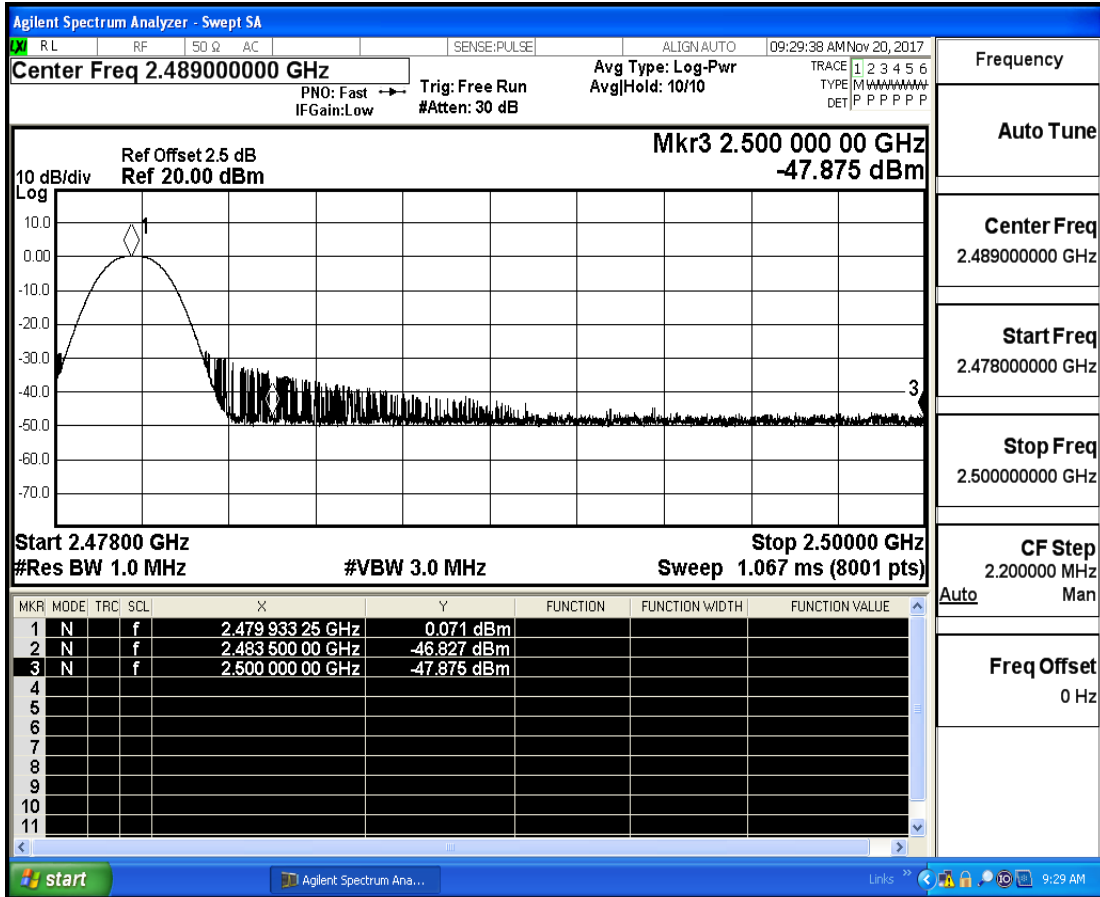
Restrict-band band-edge measurements_2402_PEAK



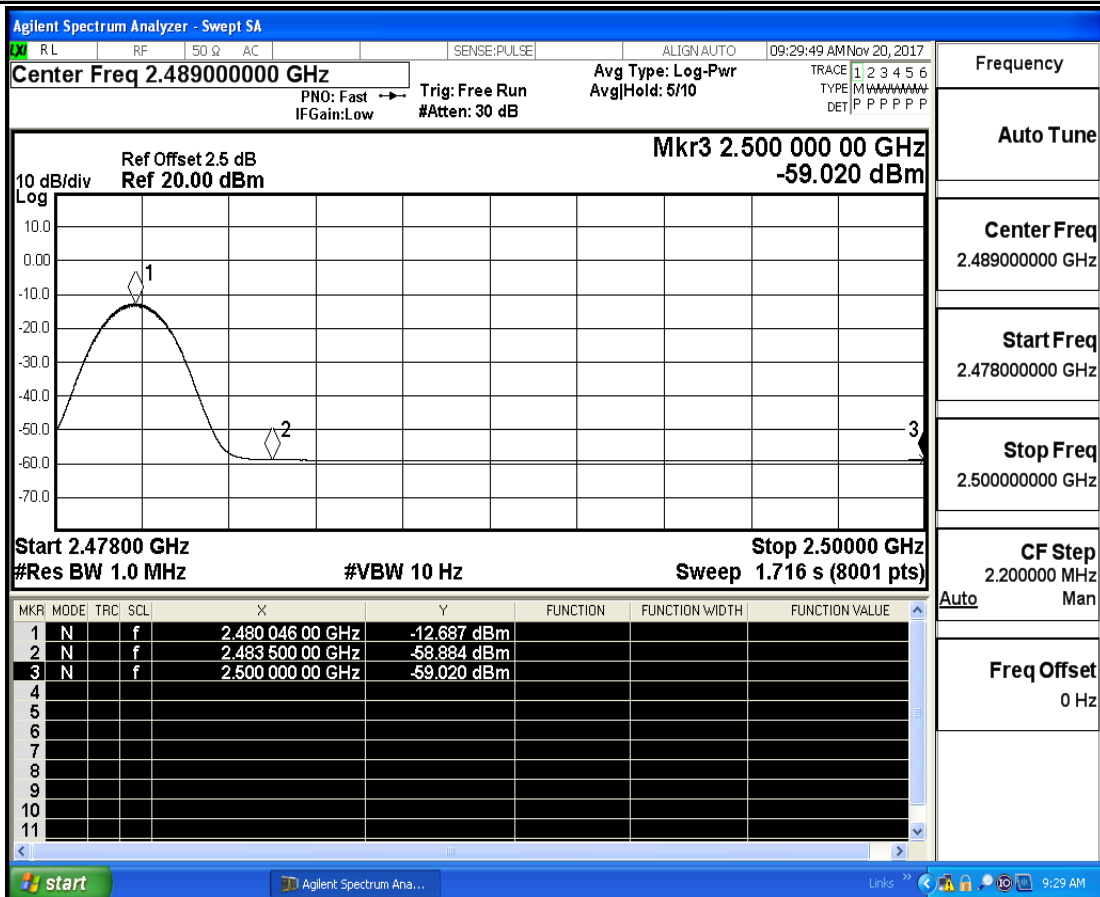
Restrict-band band-edge measurements_2402_AV



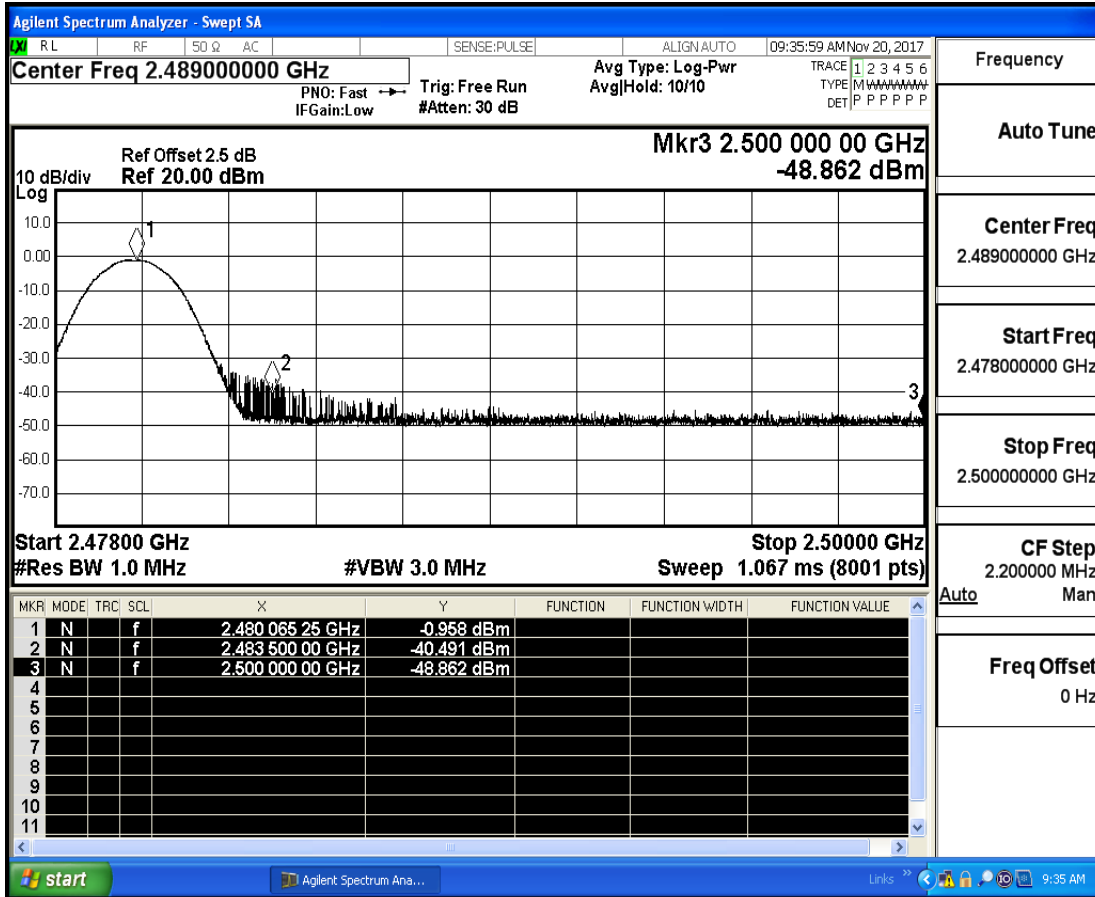
Restrict-band band-edge measurements_2480_PEAK



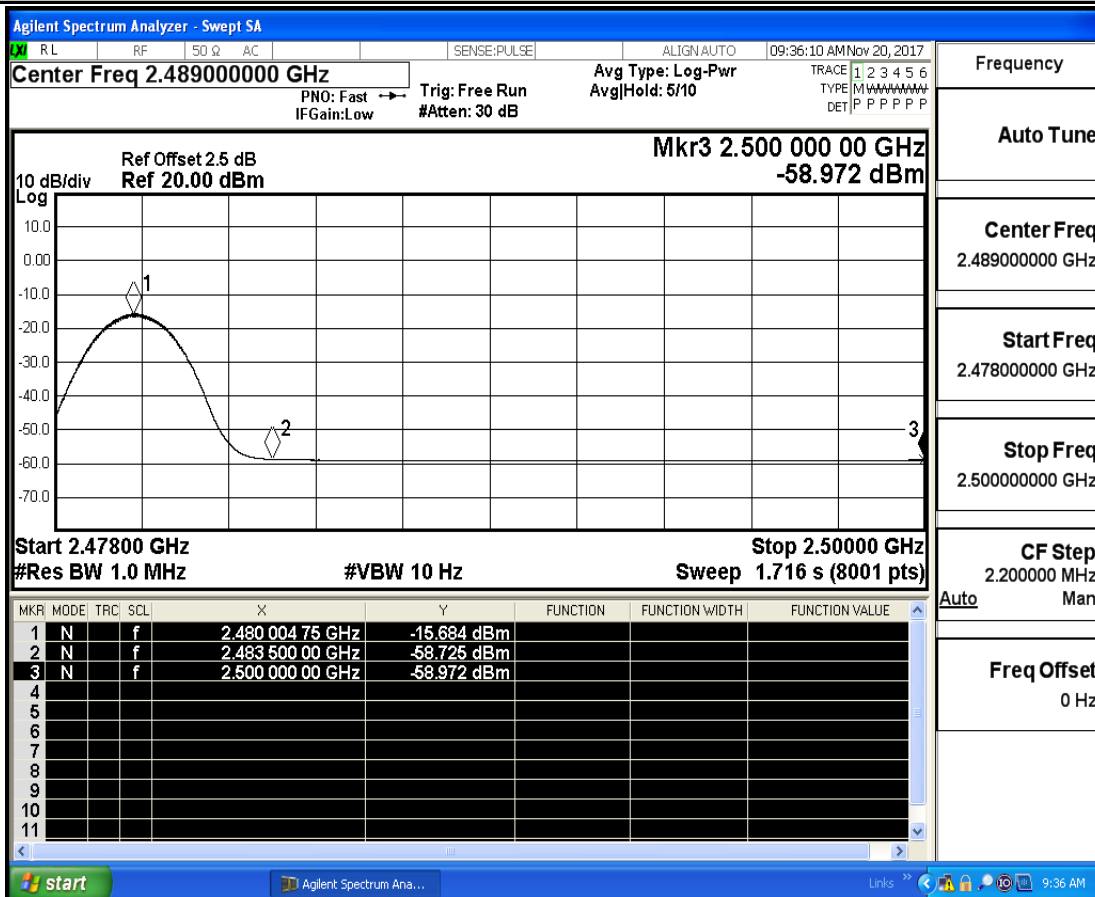
Restrict-band band-edge measurements_2480_AV



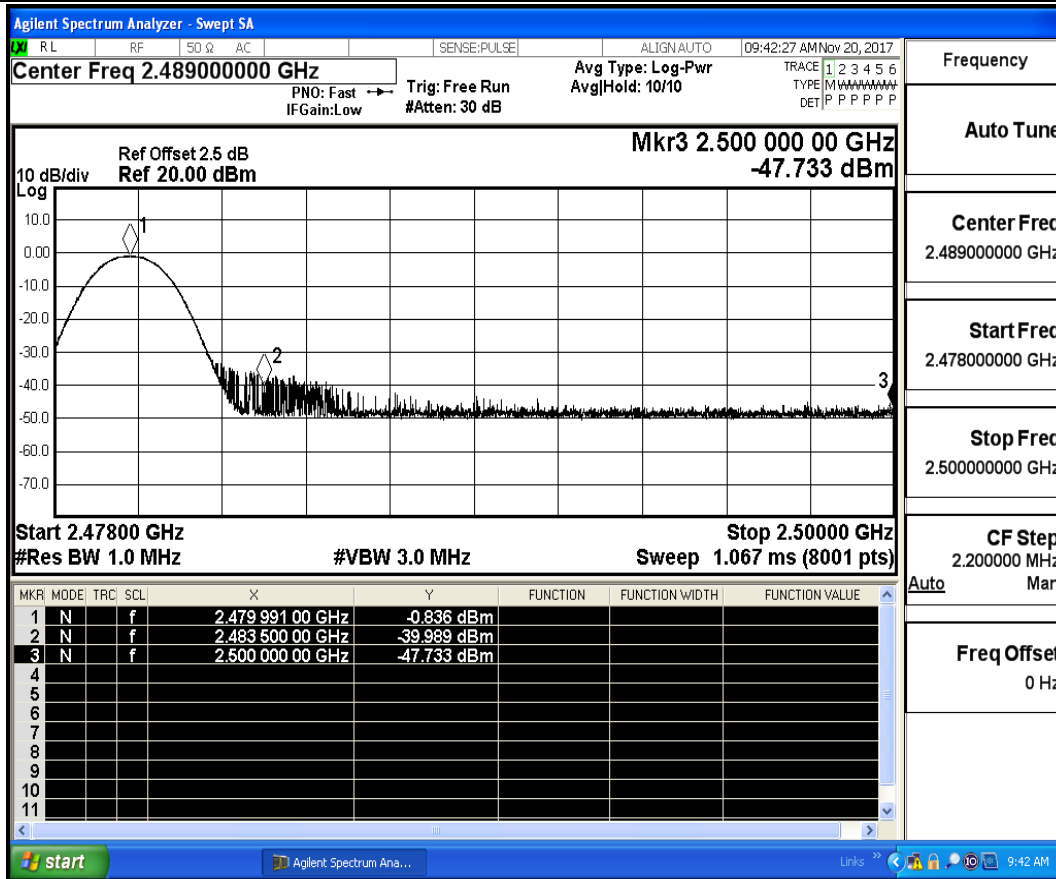
Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV



Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV

