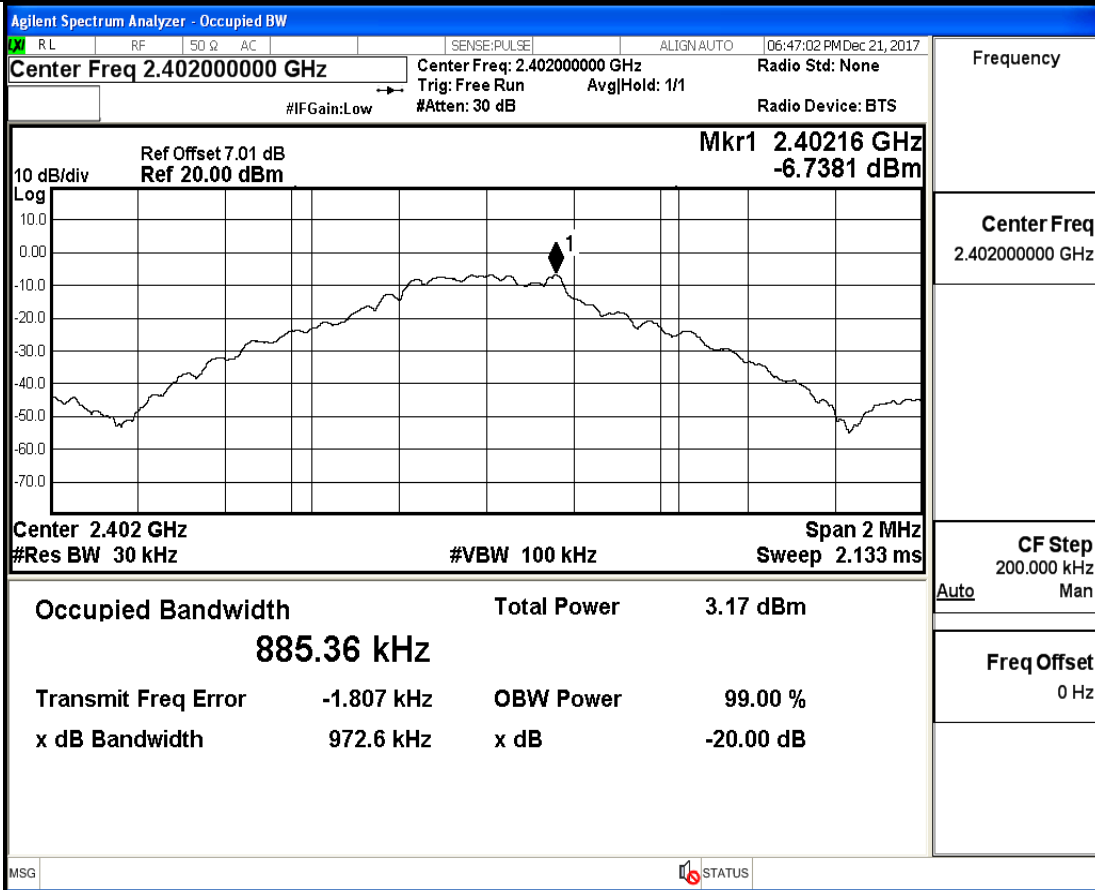


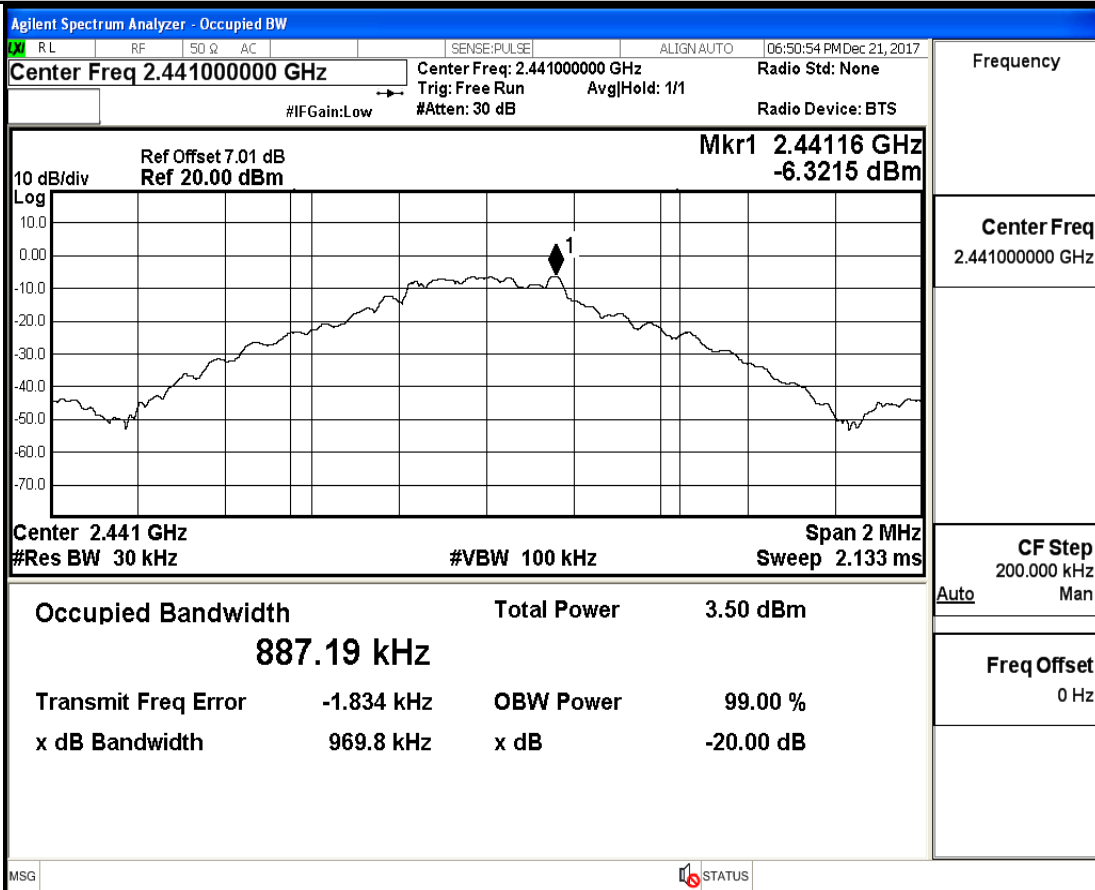
A.1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.9726	---	PASS
DH5	2441	0.9698	---	PASS
DH5	2480	1.028	---	PASS
2DH5	2402	1.286	---	PASS
2DH5	2441	1.284	---	PASS
2DH5	2480	1.285	---	PASS
3DH5	2402	1.297	---	PASS
3DH5	2441	1.288	---	PASS
3DH5	2480	1.288	---	PASS

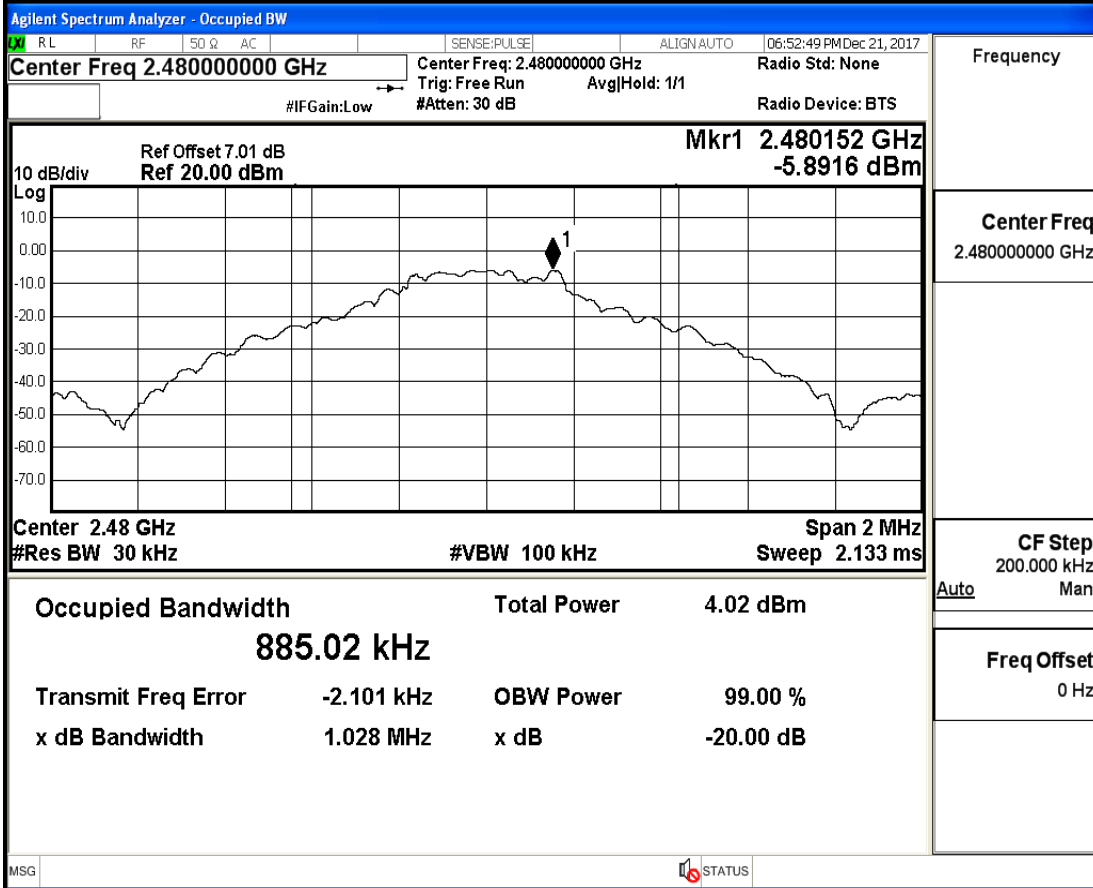
20 dB Bandwidth_DH5_2402



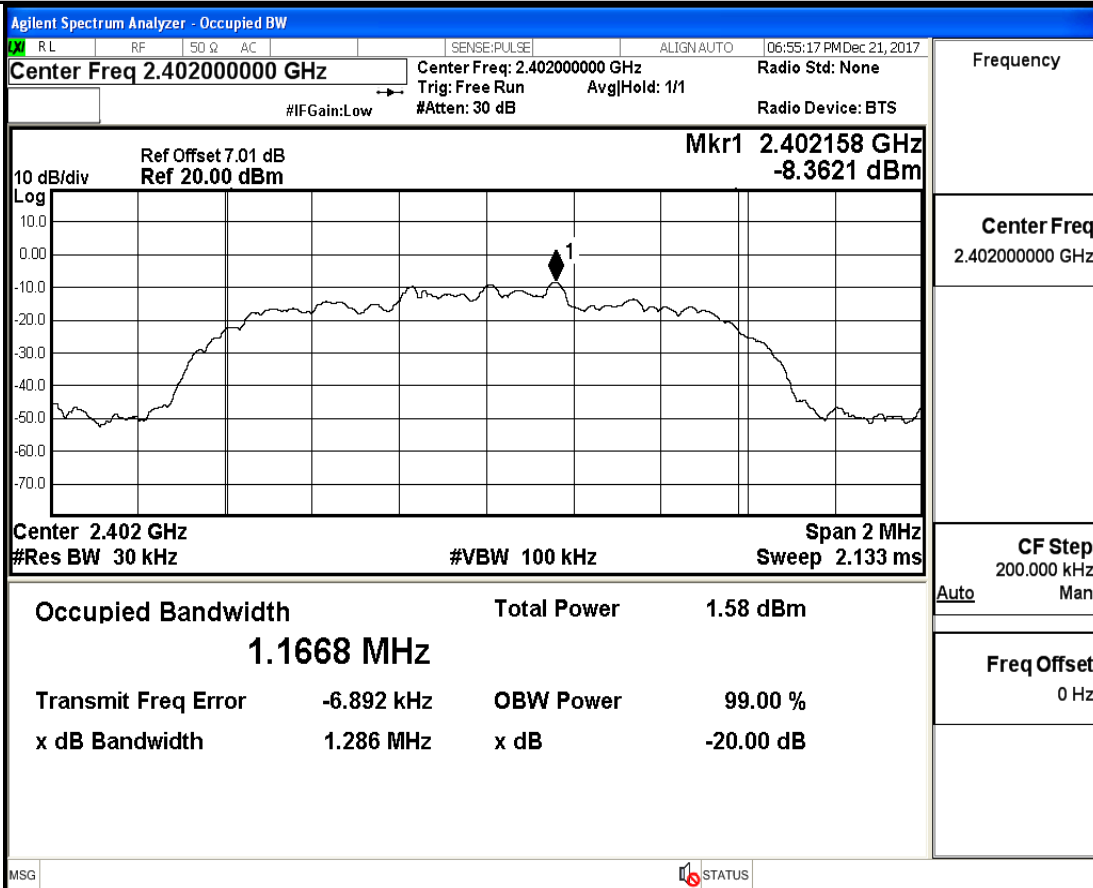
20 dB Bandwidth_DH5_2441



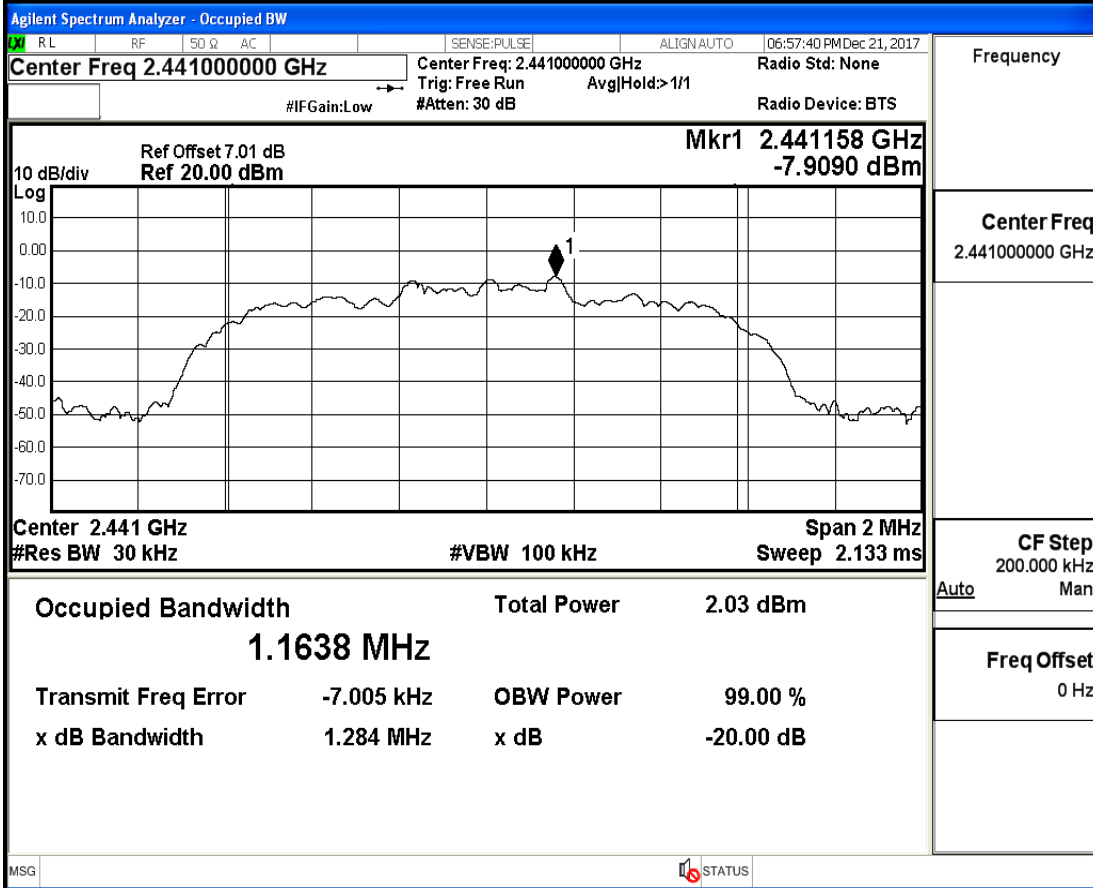
20 dB Bandwidth_DH5_2480



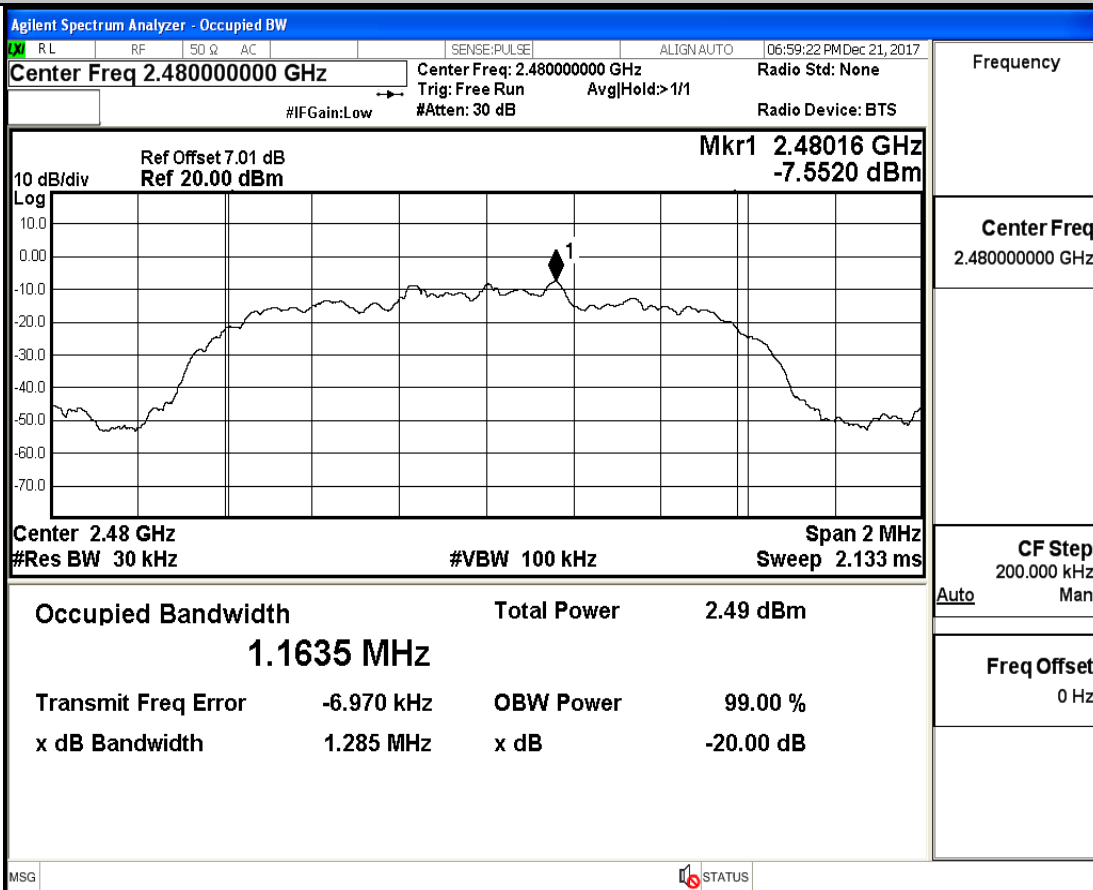
20 dB Bandwidth_2DH5_2402



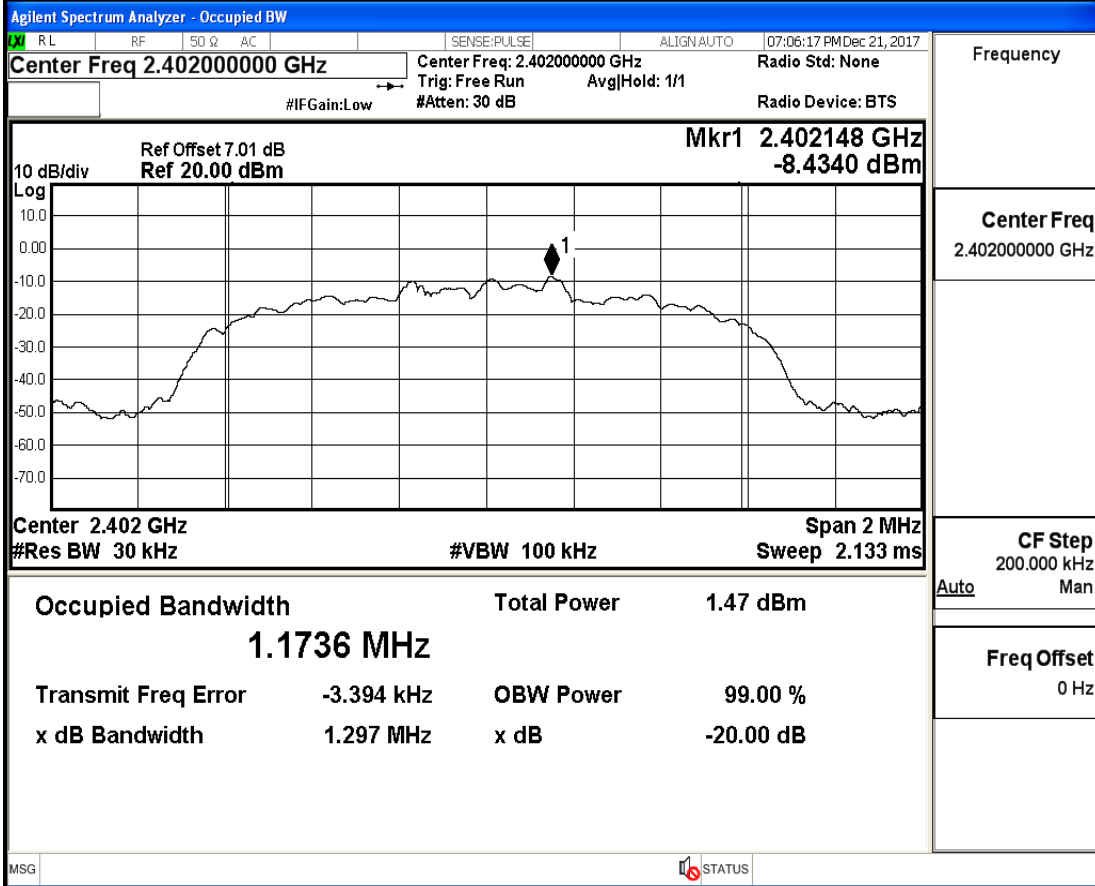
20 dB Bandwidth_2DH5_2441



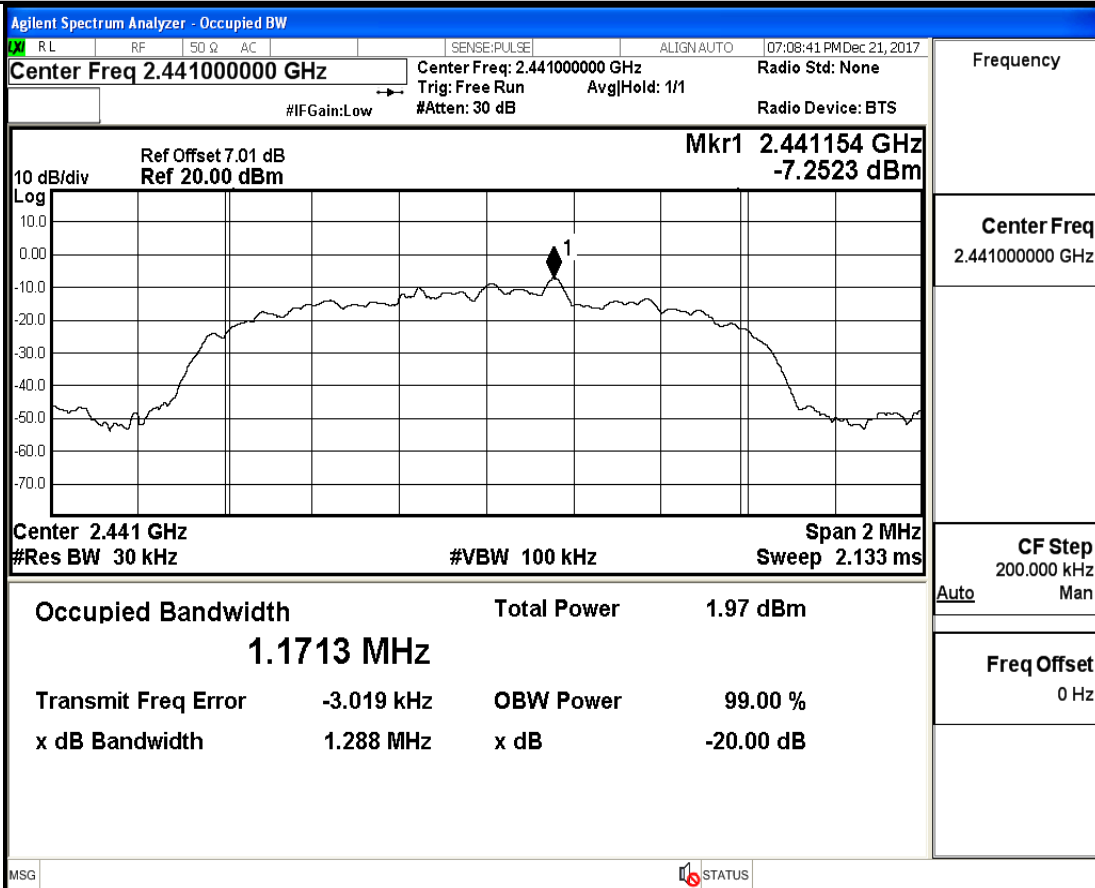
20 dB Bandwidth_2DH5_2480



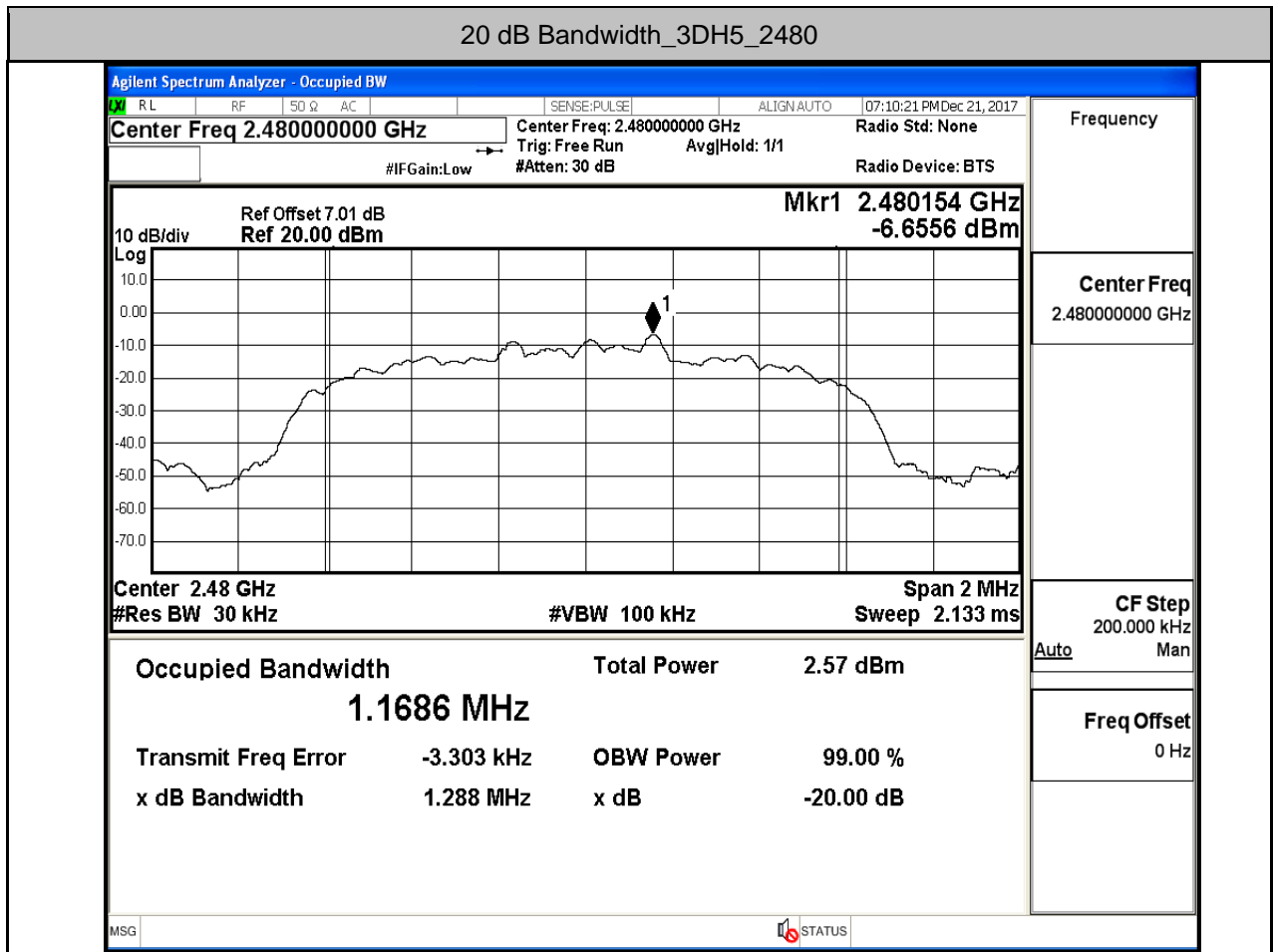
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441

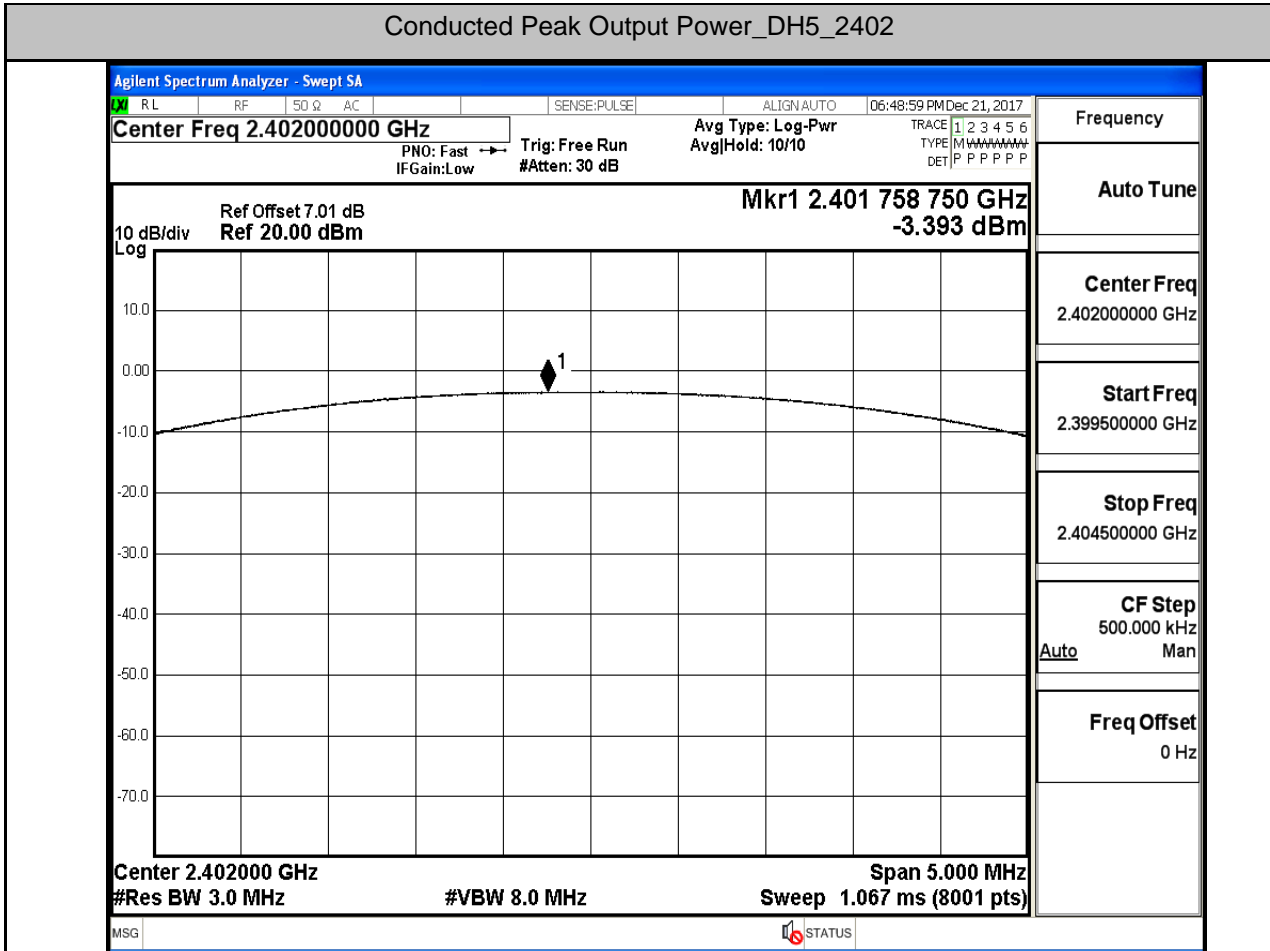


20 dB Bandwidth_3DH5_2480

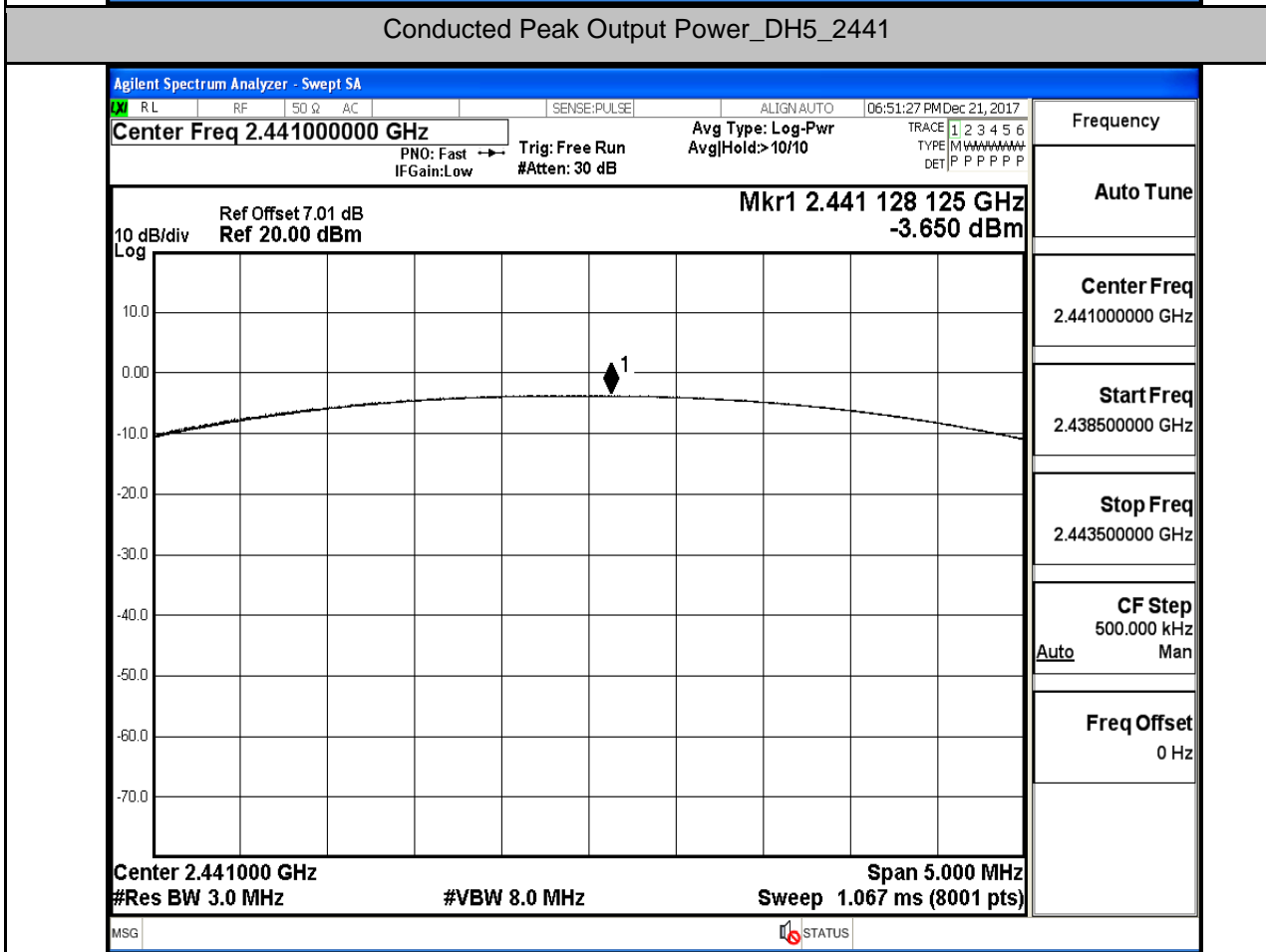


Test Mode	Test Channel	Measured Maximum Peak Power(dBm)	Limits (dBm)	Verdict
DH5	2402	-3.393	30	PASS
DH5	2441	-3.650	21	PASS
DH5	2480	-3.264	30	PASS
2DH5	2402	-4.474	21	PASS
2DH5	2441	-4.071	21	PASS
2DH5	2480	-3.570	21	PASS
3DH5	2402	-4.432	21	PASS
3DH5	2441	-3.847	21	PASS
3DH5	2480	-3.281	21	PASS

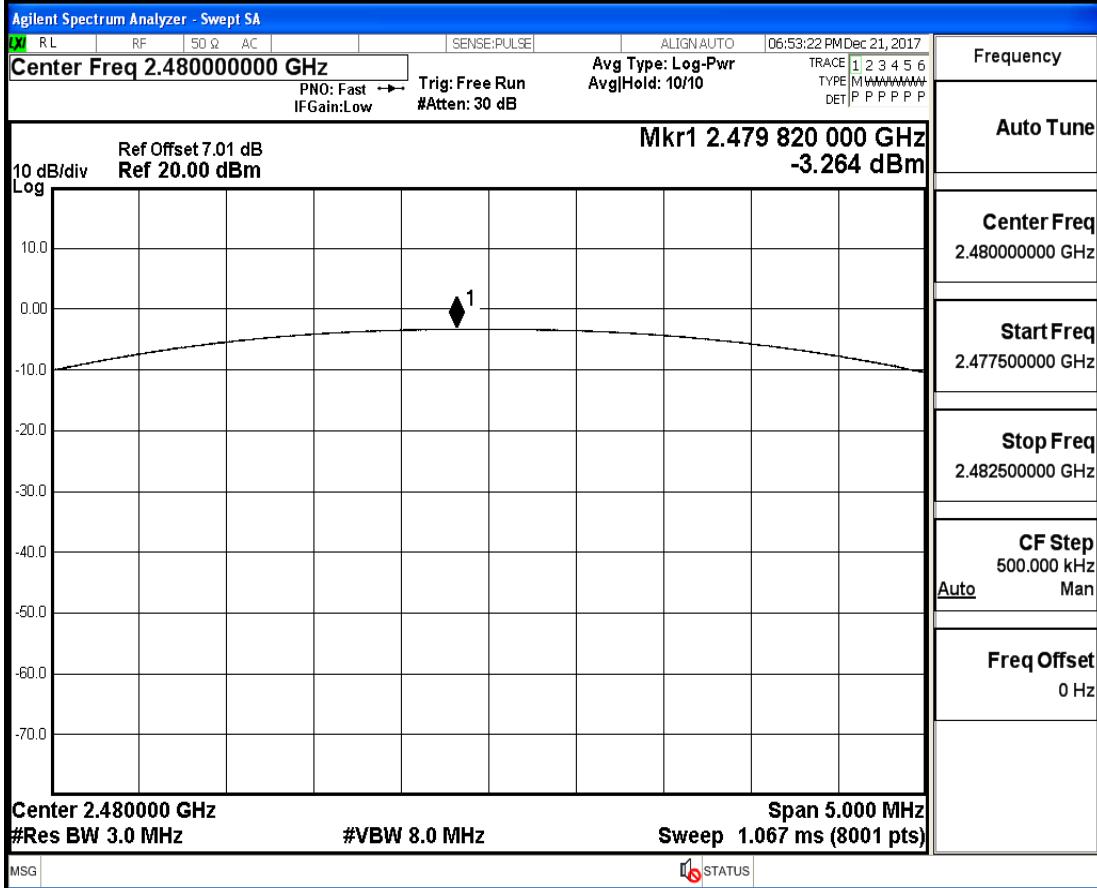
Conducted Peak Output Power_DH5_2402



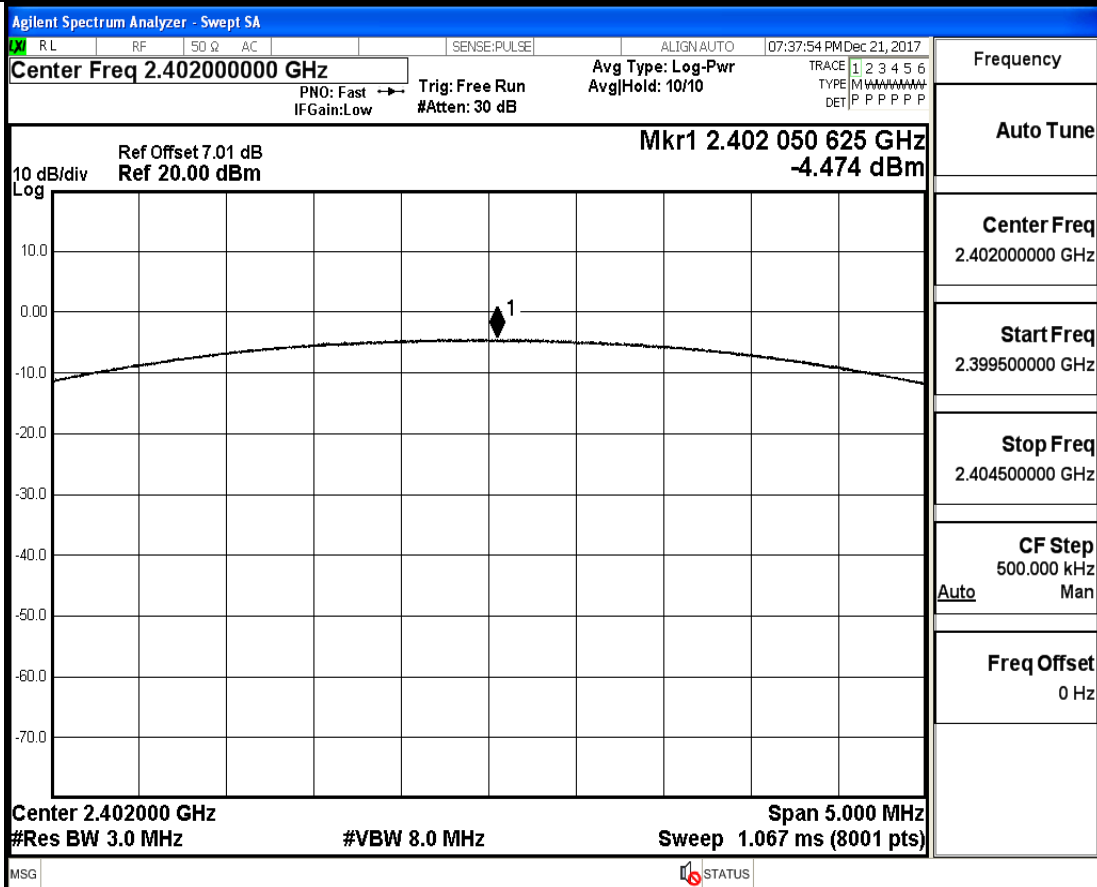
Conducted Peak Output Power_DH5_2441



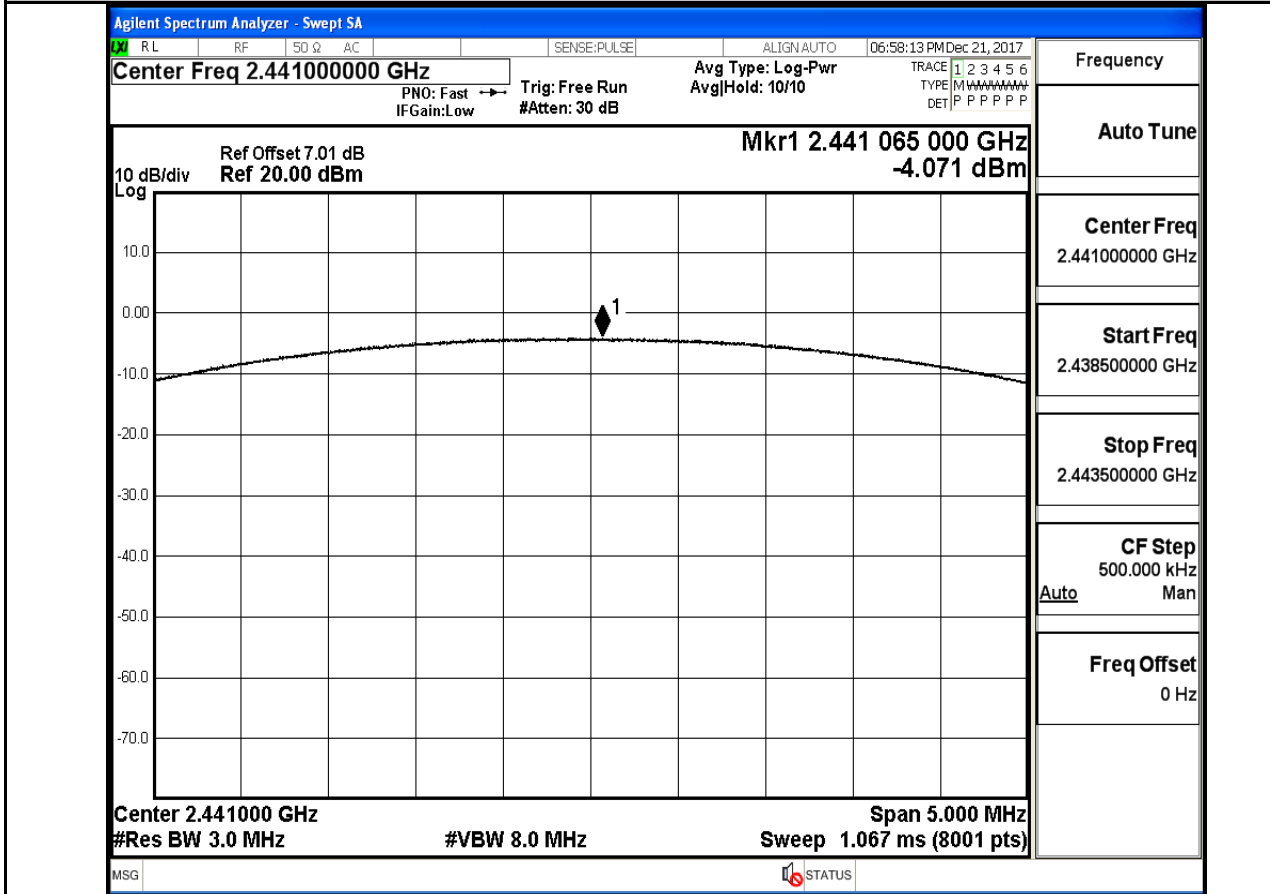
Conducted Peak Output Power_DH5_2480



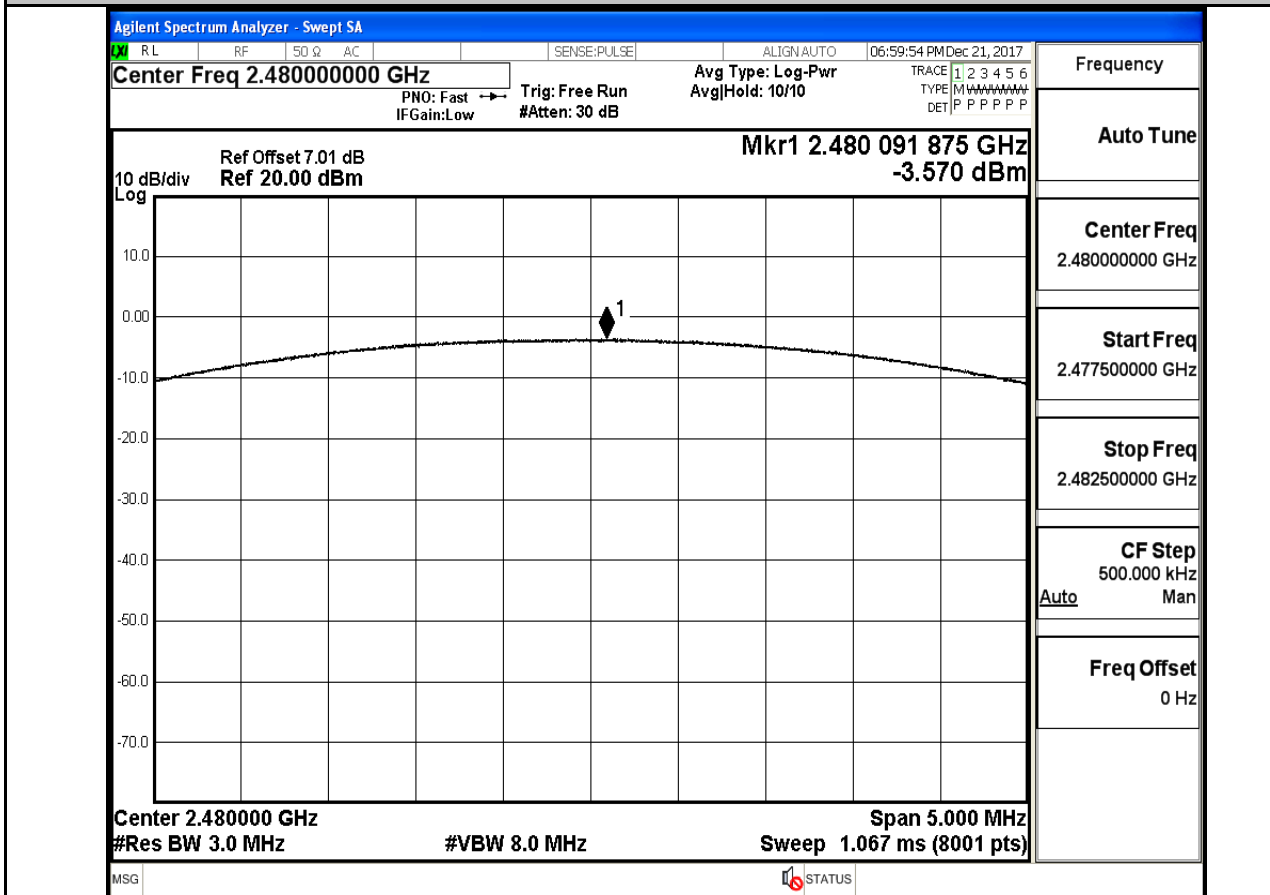
Conducted Peak Output Power_2DH5_2402



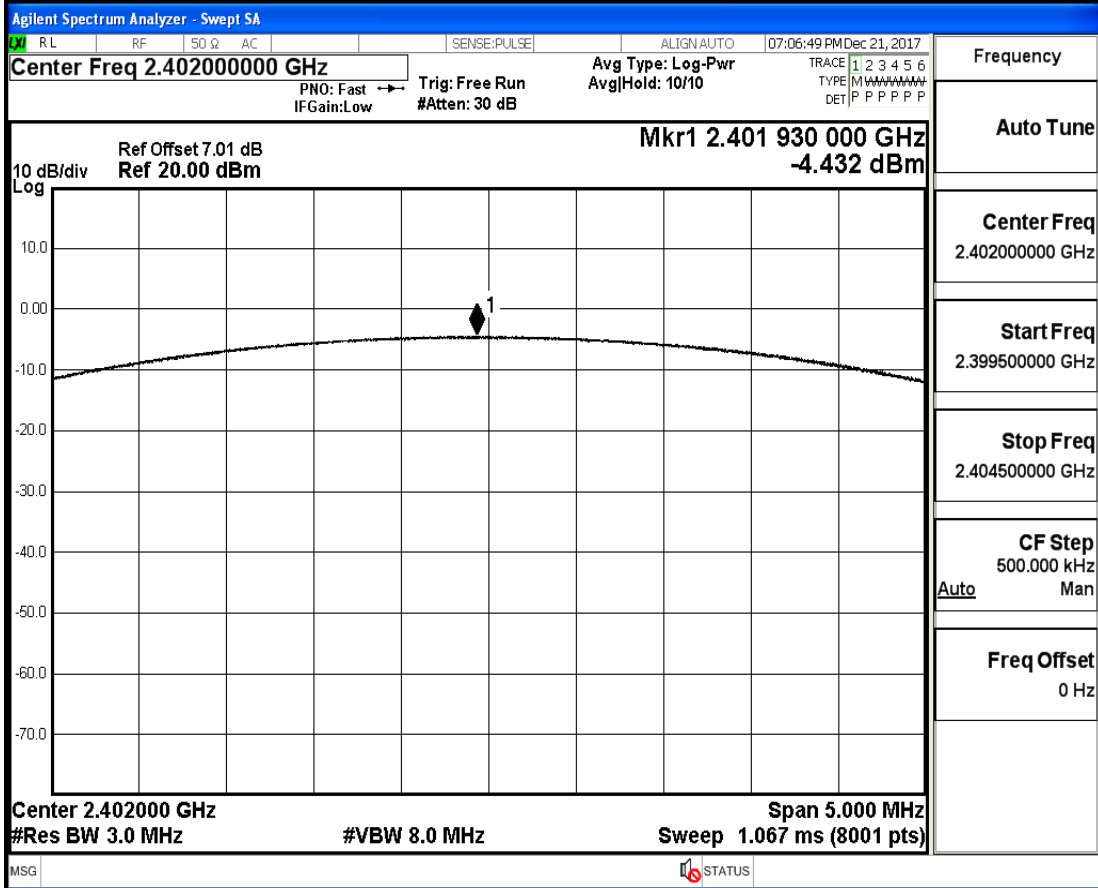
Conducted Peak Output Power_2DH5_2441



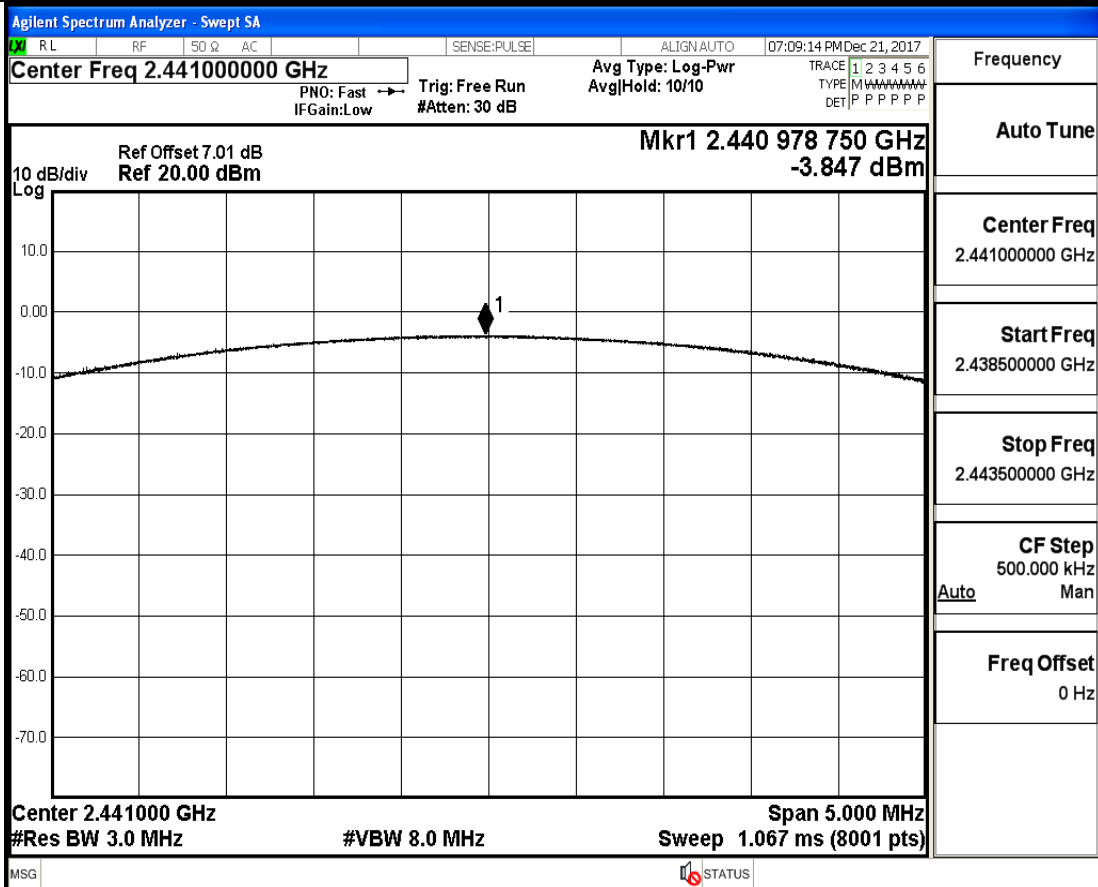
Conducted Peak Output Power_2DH5_2480



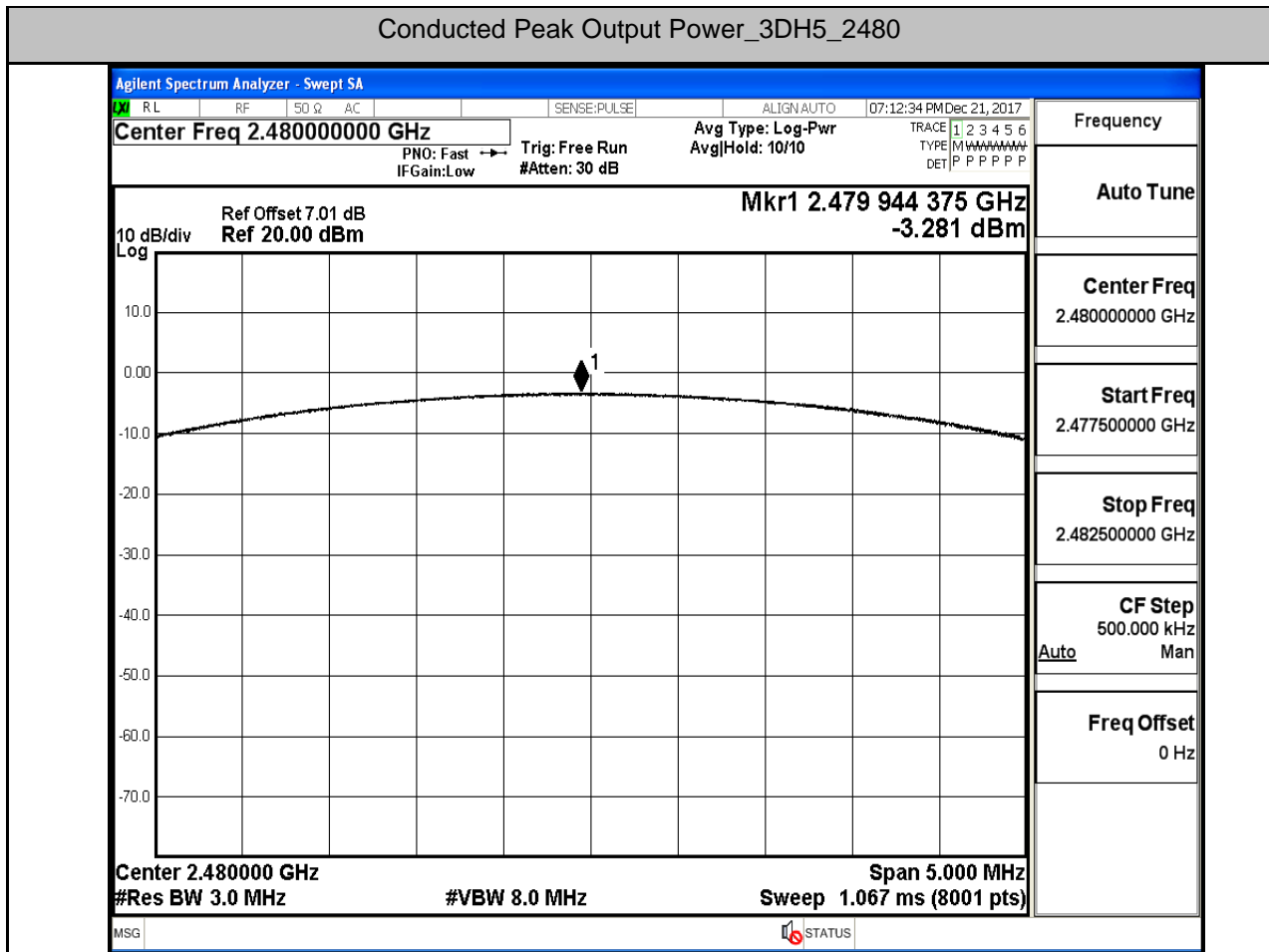
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



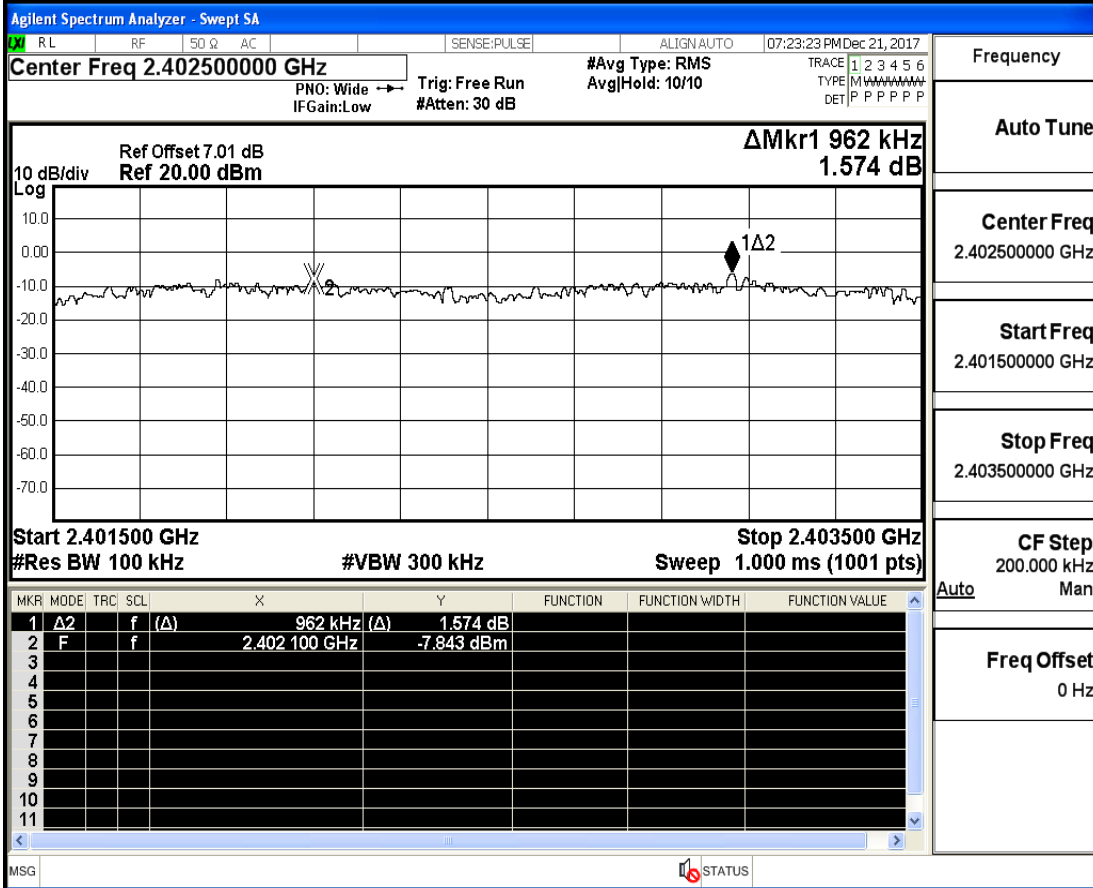
Conducted Peak Output Power_3DH5_2480



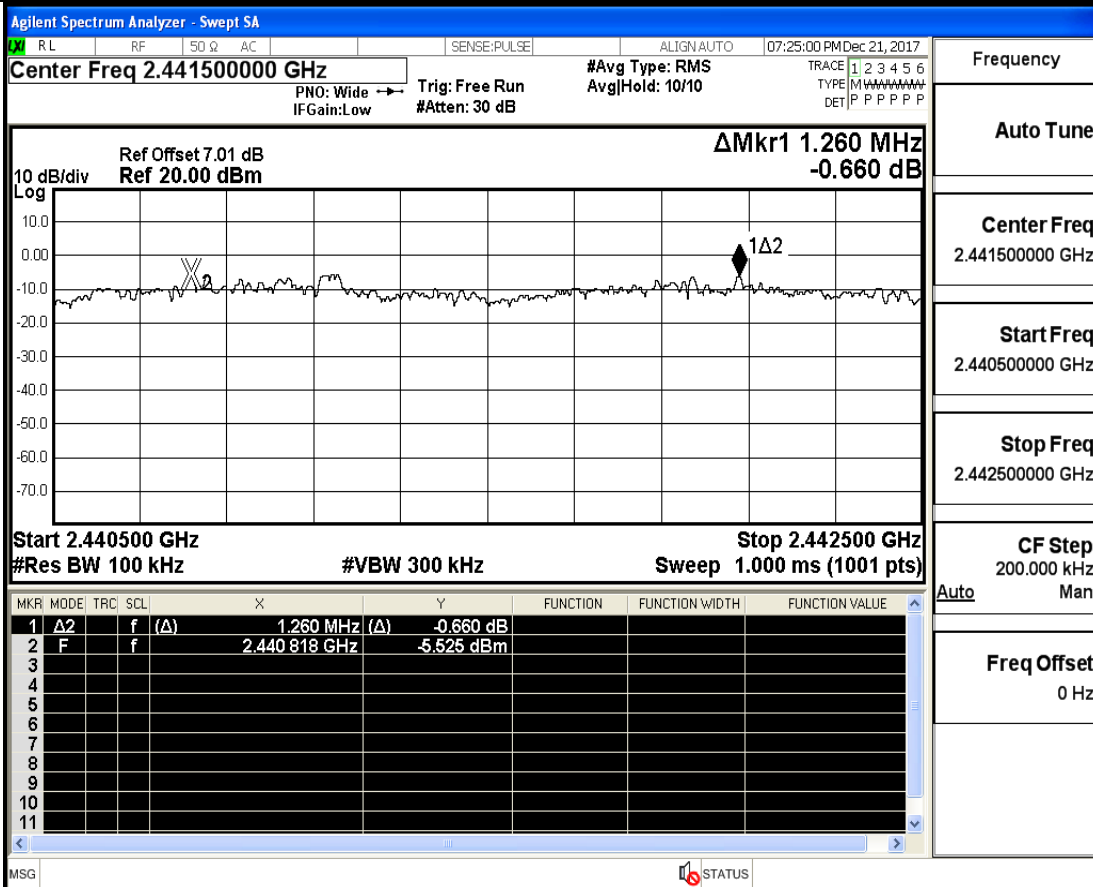
A.3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.067	0.97	PASS
DH5	2441	0.808	0.65	PASS
DH5	2480	1.198	1.03	PASS
2DH5	2402	0.998	0.86	PASS
2DH5	2441	0.962	0.86	PASS
2DH5	2480	1.030	0.86	PASS
3DH5	2402	0.962	0.86	PASS
3DH5	2441	1.260	0.86	PASS
3DH5	2480	0.894	0.86	PASS

Carrier Frequency Separation_3DH5_2402



Carrier Frequency Separation_3DH5_2441



Carrier Frequency Separation_3DH5_2480

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 07:25:23 PM Dec 21, 2017

Center Freq 2.479500000 GHz

PN0: Wide → Trig: Free Run #Avg Type: RMS
IFGain: Low #Atten: 30 dB AvgJHold: 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

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

Ref Offset 7.01 dB **ΔMkr1 894 kHz**
Ref 20.00 dBm **2.686 dB**

10 dB/div Log

Start 2.478500 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.480500 GHz Sweep 1.000 ms (1001 pts)

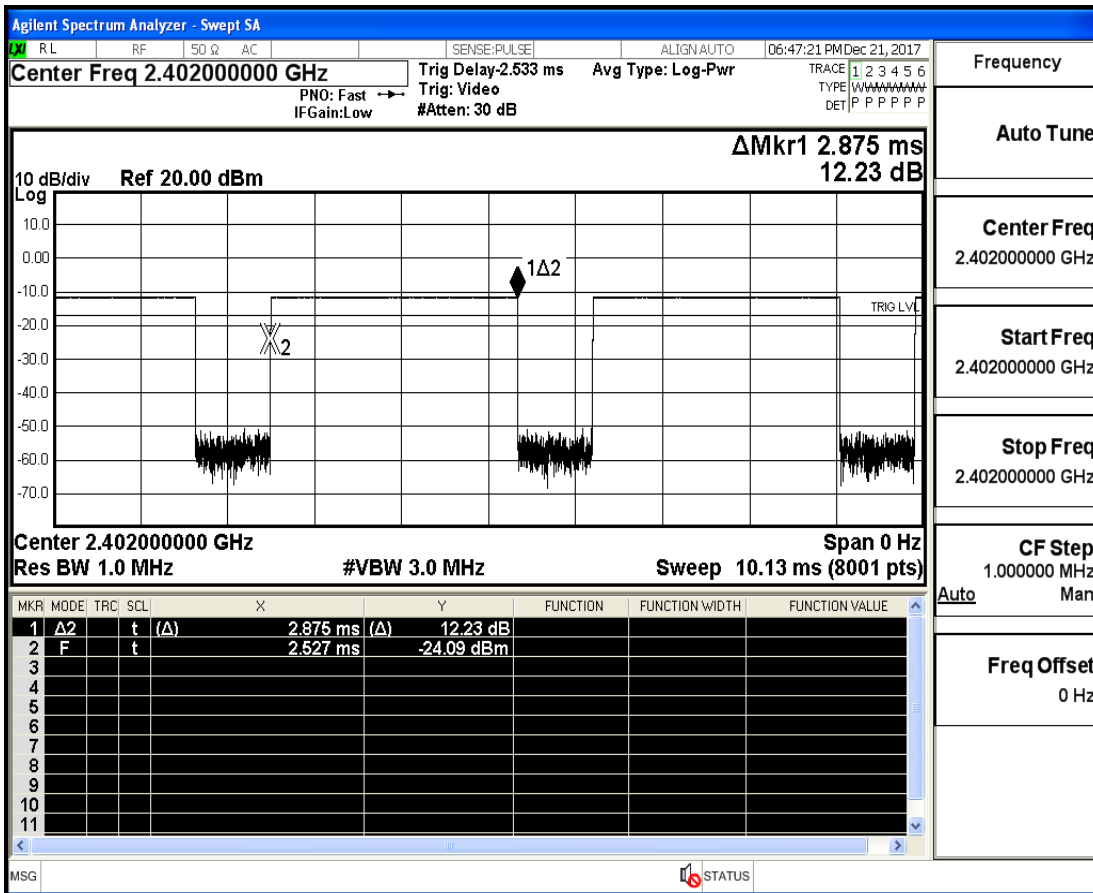
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	f	(Δ)	894 kHz (Δ)	2.686 dB			
2	F	f		2.478 912 GHz	-8.263 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

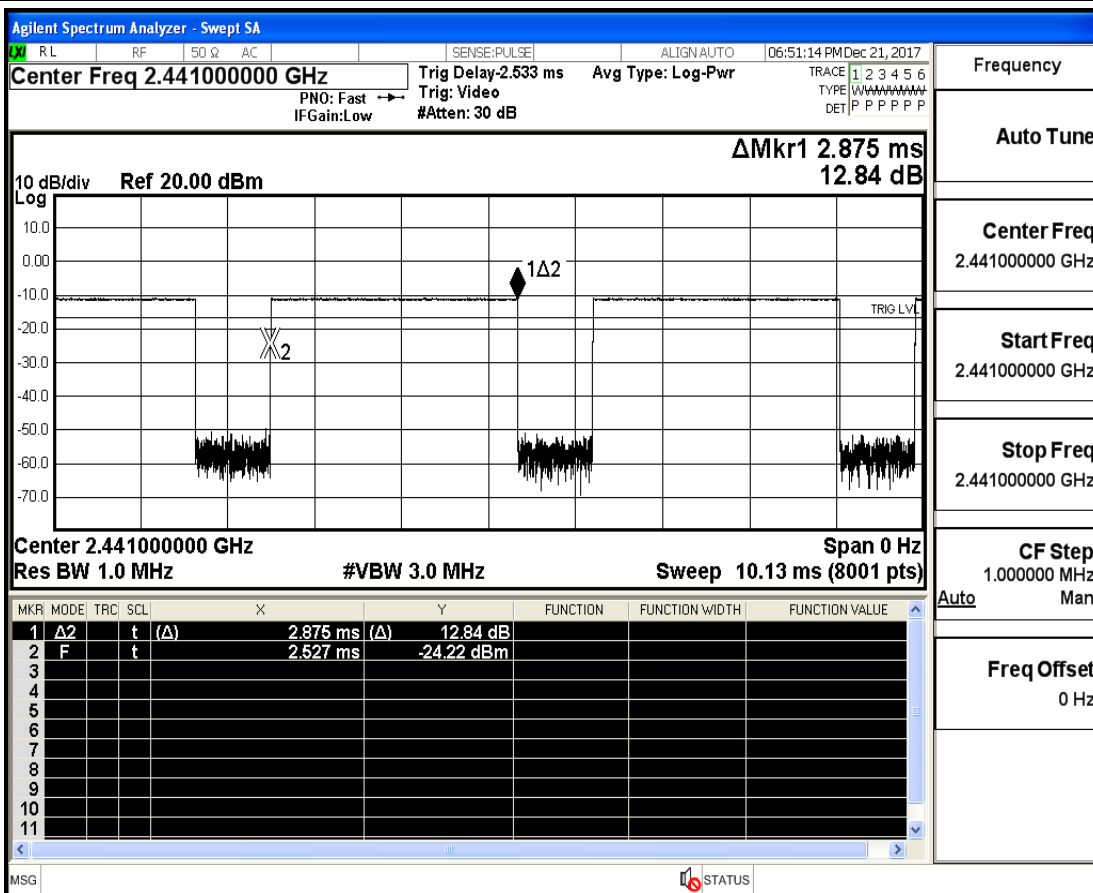
A.4.Dwell Time

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	2.87	106.7	0.306	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

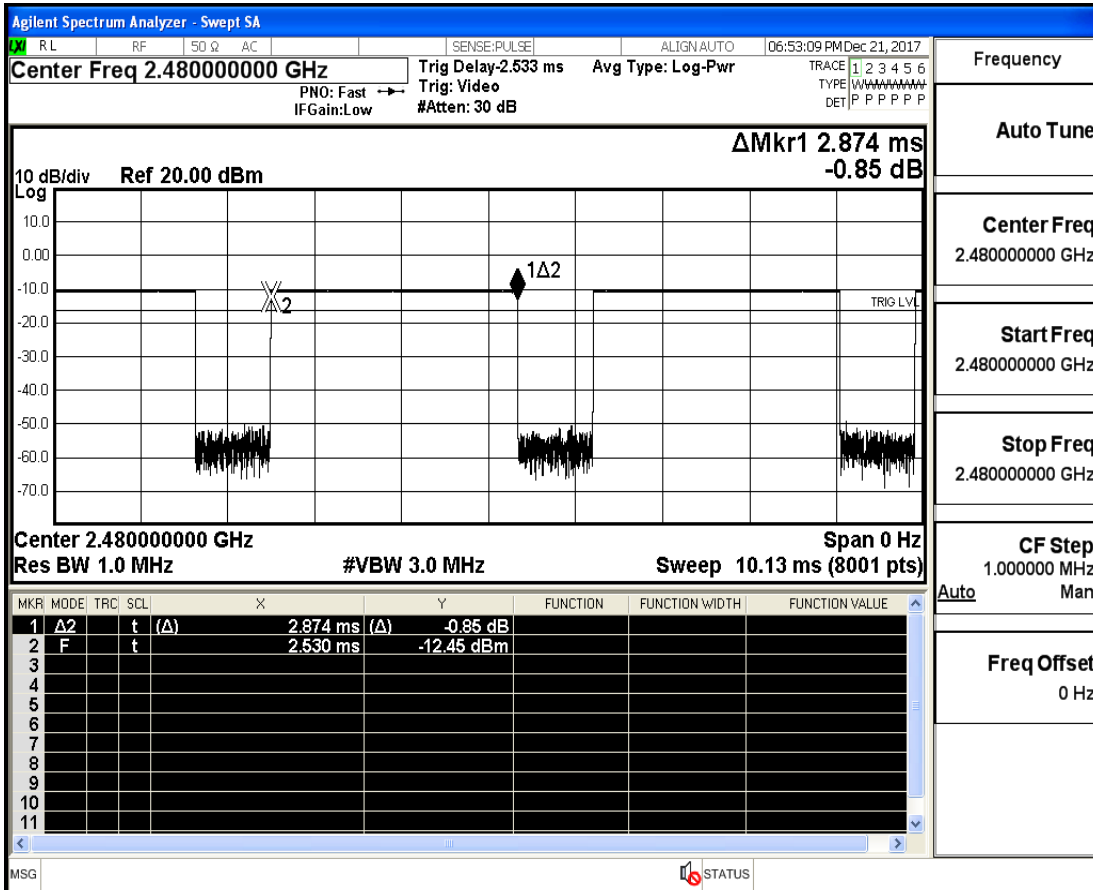
Dwell Time_DH5_2402



Dwell Time_DH5_2441

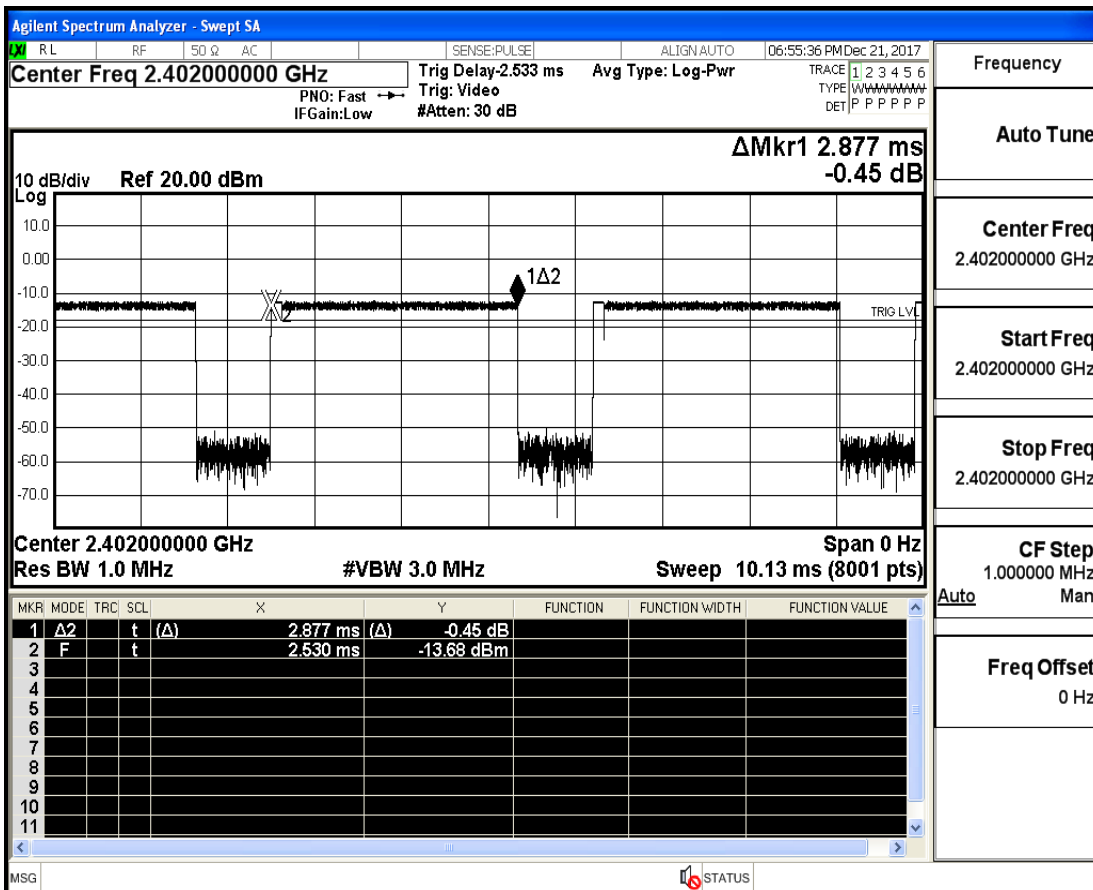


Dwell Time_DH5_2480



Frequency	
Auto Tune	
Center Freq	2.480000000 GHz
Start Freq	2.480000000 GHz
Stop Freq	2.480000000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

Dwell Time_2DH5_2402



Frequency	
Auto Tune	
Center Freq	2.402000000 GHz
Start Freq	2.402000000 GHz
Stop Freq	2.402000000 GHz
CF Step	1.000000 MHz
Auto	Man
Freq Offset	0 Hz

Dwell Time_2DH5_2441

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 06:58:00 PM Dec 21, 2017

Center Freq 2.441000000 GHz Trig Delay: 2.533 ms Avg Type: Log-Pwr

PNO: Fast IFGain: Low Trig: Video #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE WWWWWWWW
DET P P P P P P

ΔMkr1 2.877 ms
0.11 dB

10 dB/div Ref 20.00 dBm

Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	t	(Δ)	2.877 ms	(Δ)	0.11 dB		
2	F	t		3.538 ms	-13.59 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune
Center Freq 2.441000000 GHz
Start Freq 2.441000000 GHz
Stop Freq 2.441000000 GHz
CF Step 1.000000 MHz
Auto Man
Freq Offset 0 Hz

Dwell Time_2DH5_2480

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 06:59:40 PM Dec 21, 2017

Center Freq 2.480000000 GHz Trig Delay: 2.533 ms Avg Type: Log-Pwr

PNO: Fast IFGain: Low Trig: Video #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE WWWWWWWW
DET P P P P P P

ΔMkr1 2.877 ms
1.40 dB

10 dB/div Ref 20.00 dBm

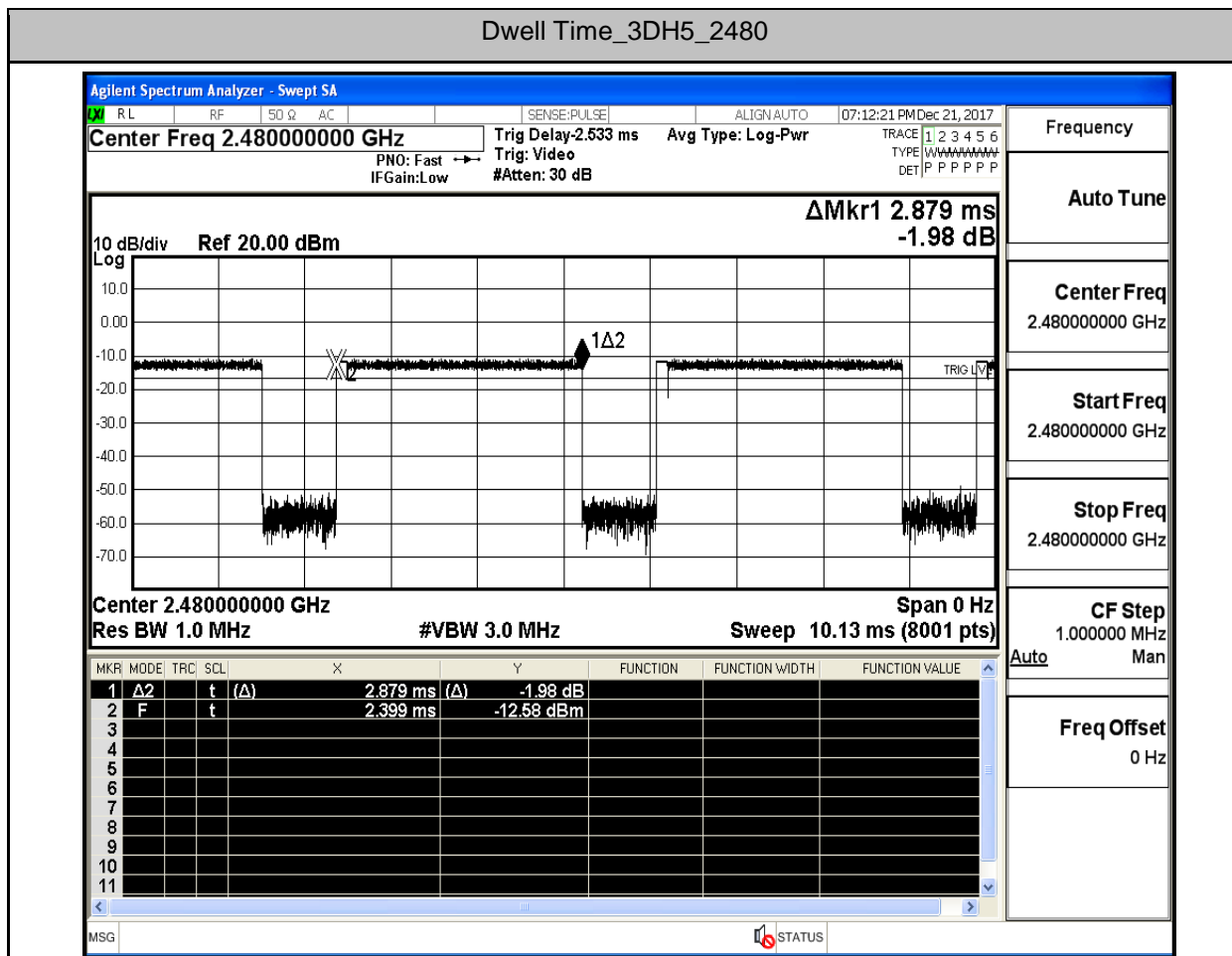
Center 2.480000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	t	(Δ)	2.877 ms	(Δ)	1.40 dB		
2	F	t		103.9 μs	-13.70 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
Auto Tune
Center Freq 2.480000000 GHz
Start Freq 2.480000000 GHz
Stop Freq 2.480000000 GHz
CF Step 1.000000 MHz
Auto Man
Freq Offset 0 Hz

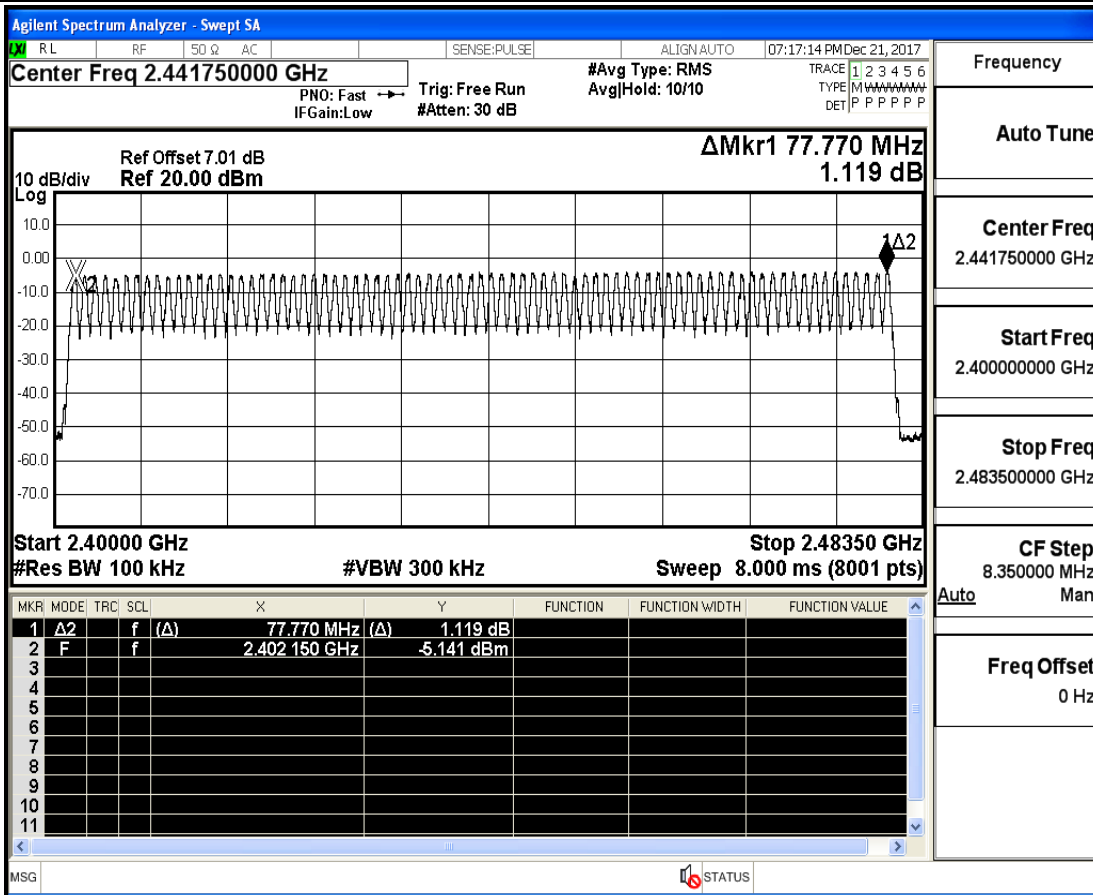
Dwell Time_3DH5_2480



A.5.Hopping Channel Number

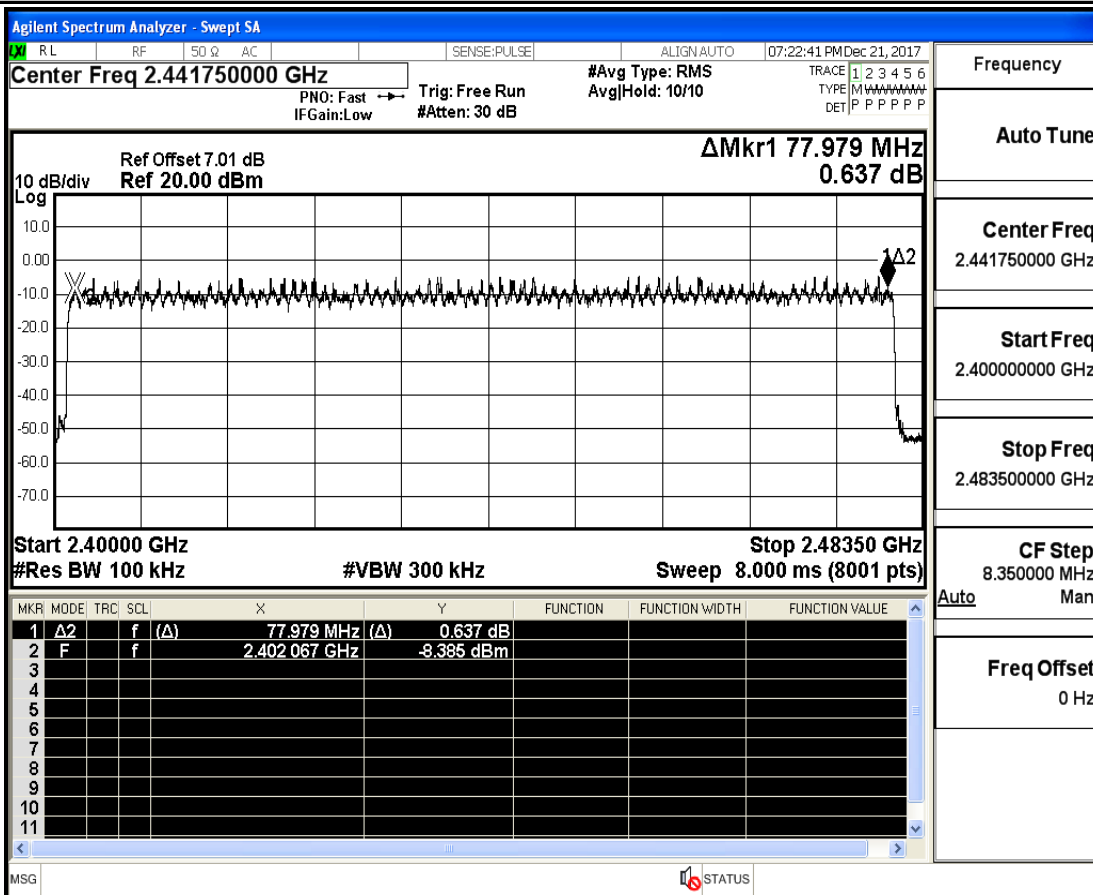
Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH5	2402	79	≥ 15	PASS
2DH5	2402	79	≥ 15	PASS
3DH5	2402	79	≥ 15	PASS

Hopping Channel Number_DH5_2402



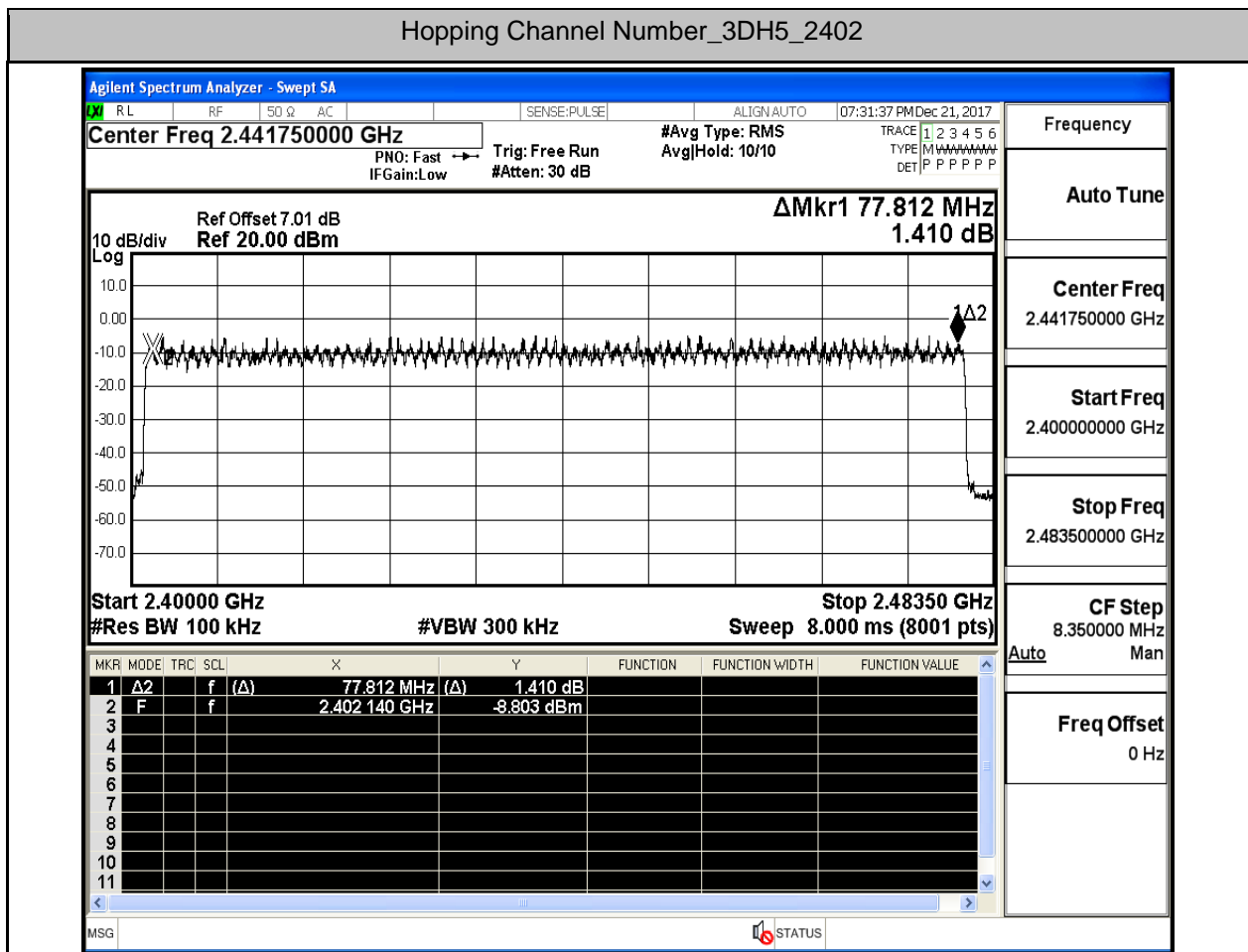
Frequency	
Auto Tune	
Center Freq	2.441750000 GHz
Start Freq	2.400000000 GHz
Stop Freq	2.483500000 GHz
CF Step	8.350000 MHz
Auto	Man
Freq Offset	0 Hz

Hopping Channel Number_2DH5_2402



Frequency	
Auto Tune	
Center Freq	2.441750000 GHz
Start Freq	2.400000000 GHz
Stop Freq	2.483500000 GHz
CF Step	8.350000 MHz
Auto	Man
Freq Offset	0 Hz

Hopping Channel Number_3DH5_2402

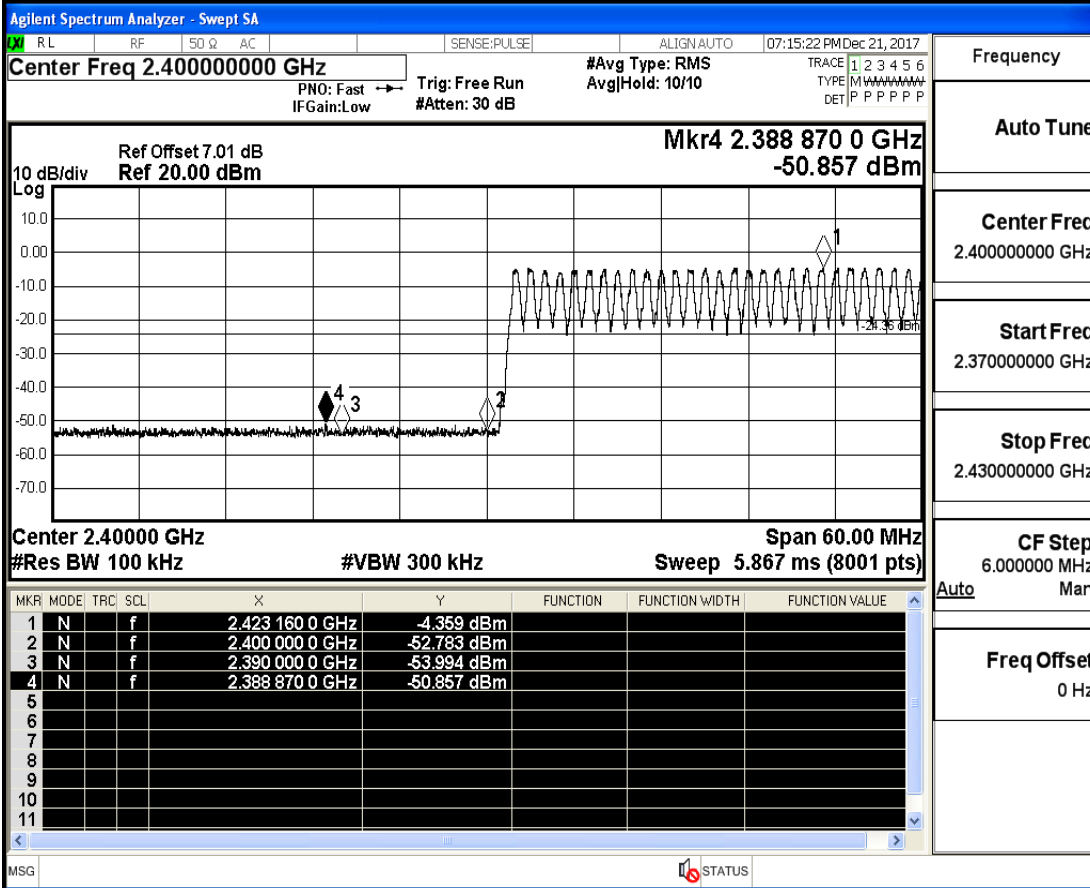


Frequency
Auto Tune
Center Freq 2.441750000 GHz
Start Freq 2.400000000 GHz
Stop Freq 2.483500000 GHz
CF Step 8.350000 MHz Auto Man
Freq Offset 0 Hz

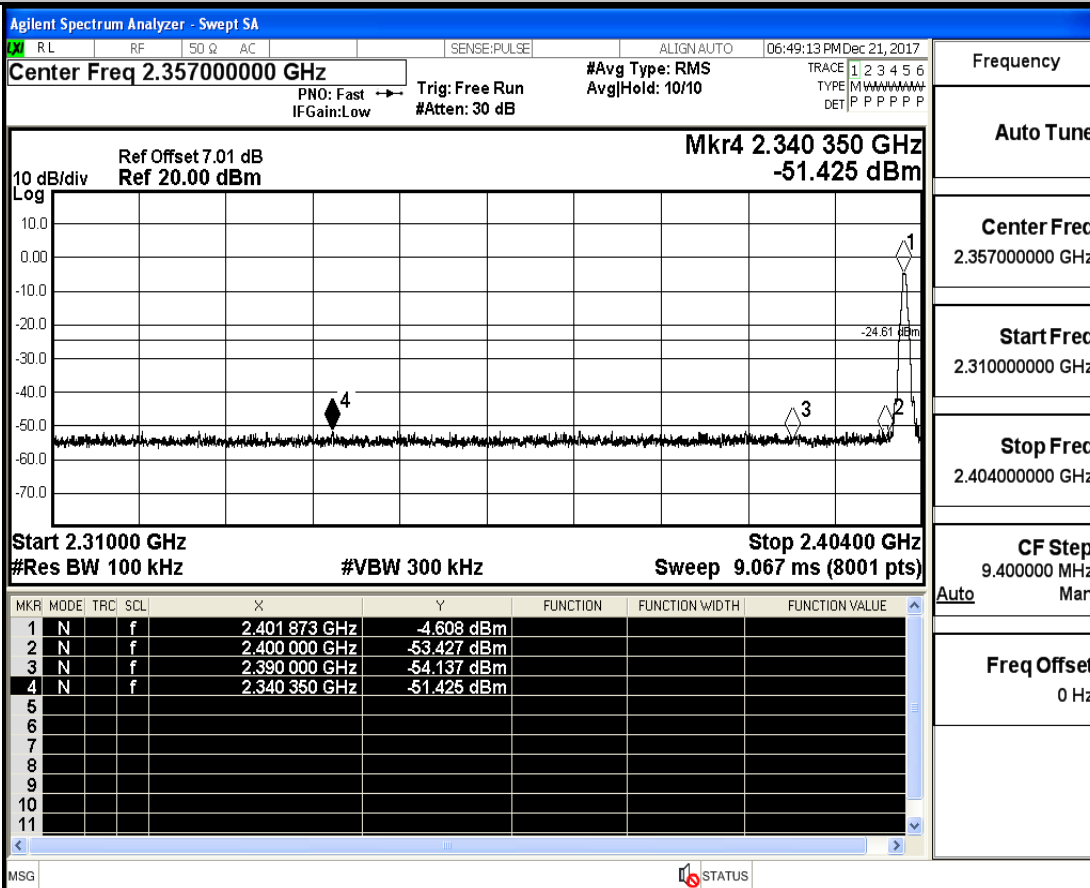
A.6.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	-4.359	-50.857	-24.36	PASS
DH5	2402	Off	-4.608	-51.425	-24.61	PASS
DH5	2480	On	-3.760	-50.468	-23.76	PASS
DH5	2480	Off	-3.520	-50.860	-23.52	PASS
2DH5	2402	On	-5.253	-50.723	-25.25	PASS
2DH5	2402	Off	-6.047	-50.502	-26.05	PASS
2DH5	2480	On	-4.553	-50.726	-24.55	PASS
2DH5	2480	Off	-4.624	-50.926	-24.62	PASS
3DH5	2402	On	-5.185	-50.801	-25.19	PASS
3DH5	2402	Off	-5.689	-50.160	-25.69	PASS
3DH5	2480	On	-4.647	-50.816	-24.65	PASS
3DH5	2480	Off	-4.983	-50.930	-24.98	PASS

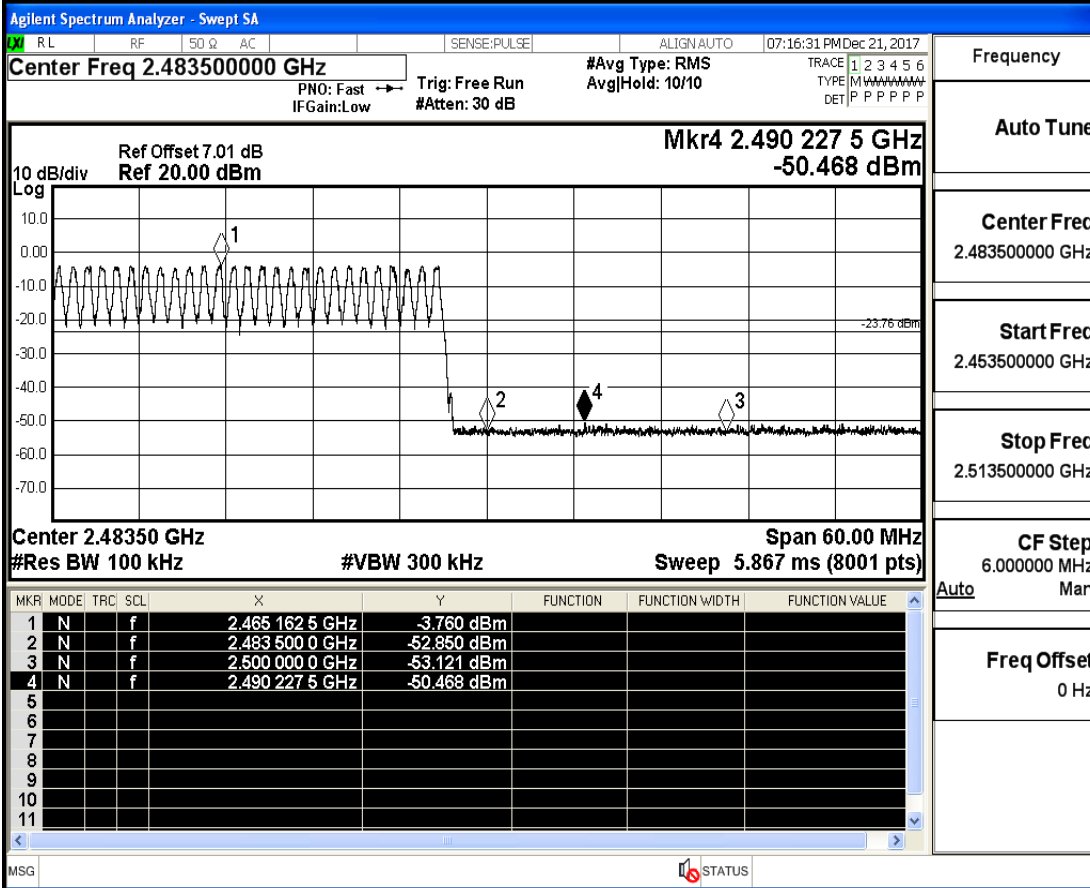
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off

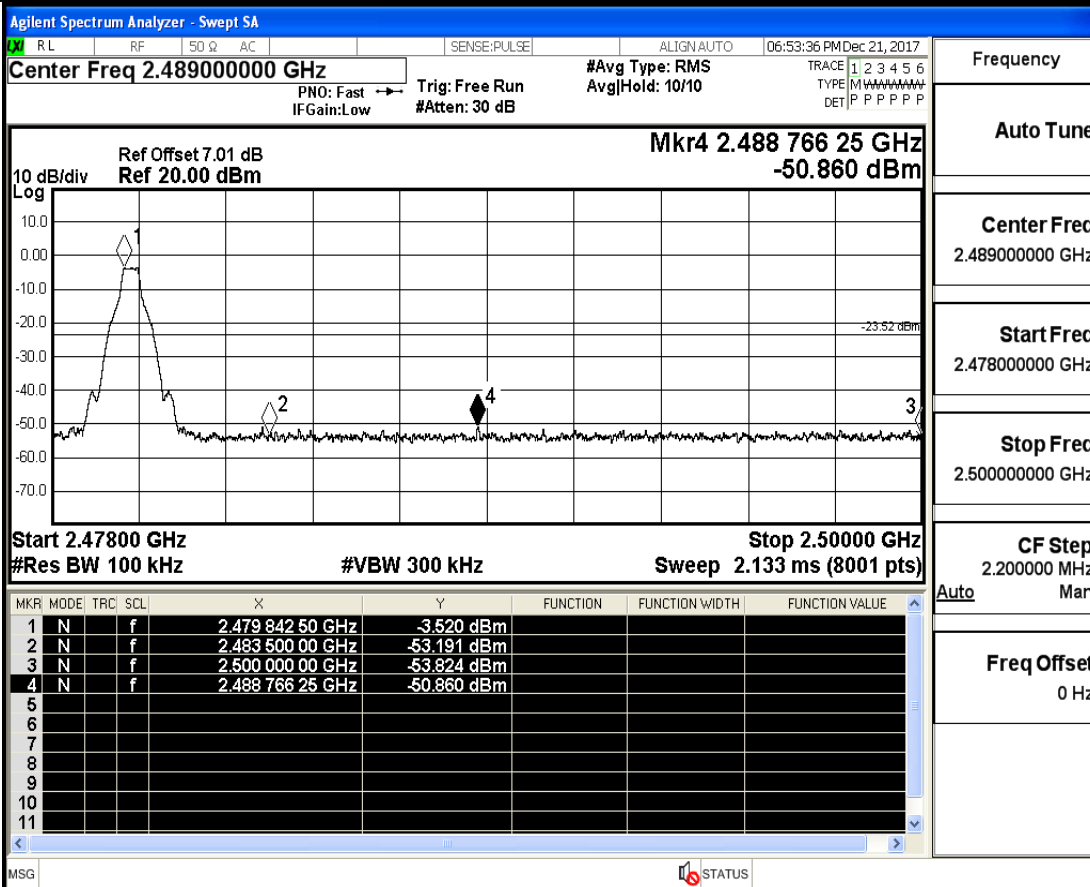


Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



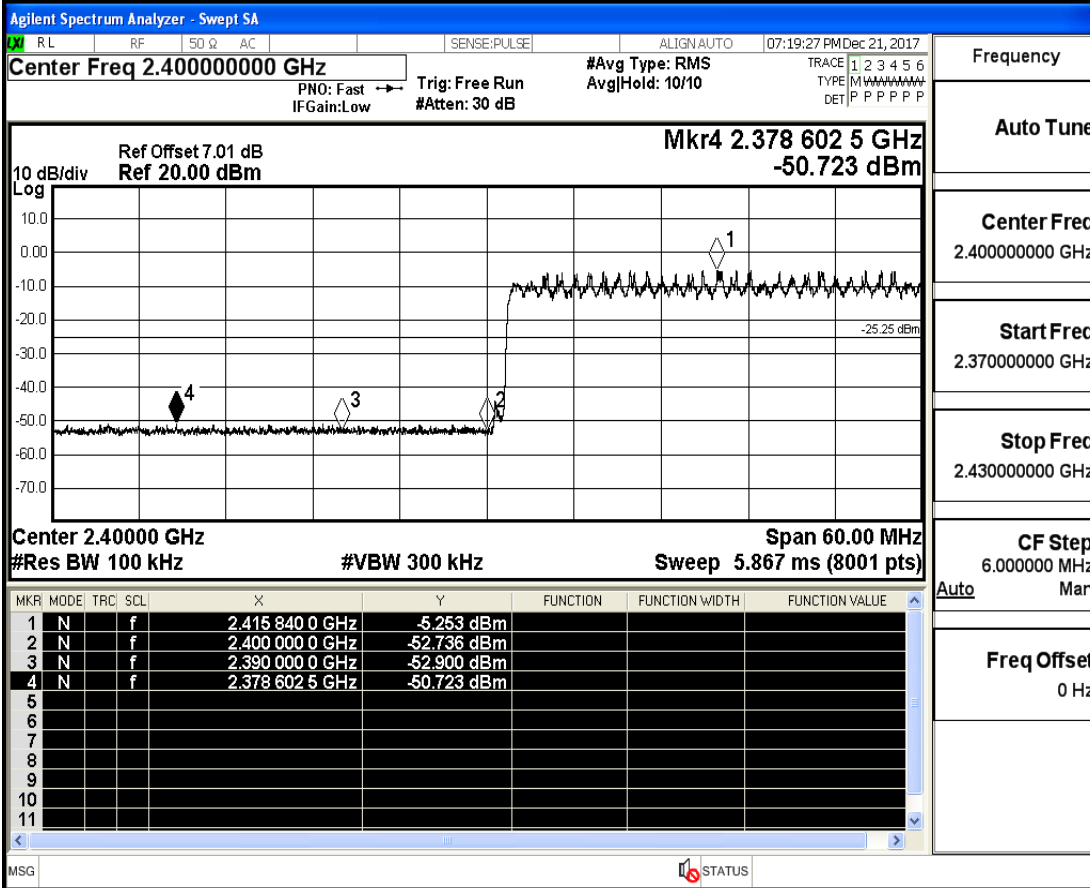
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



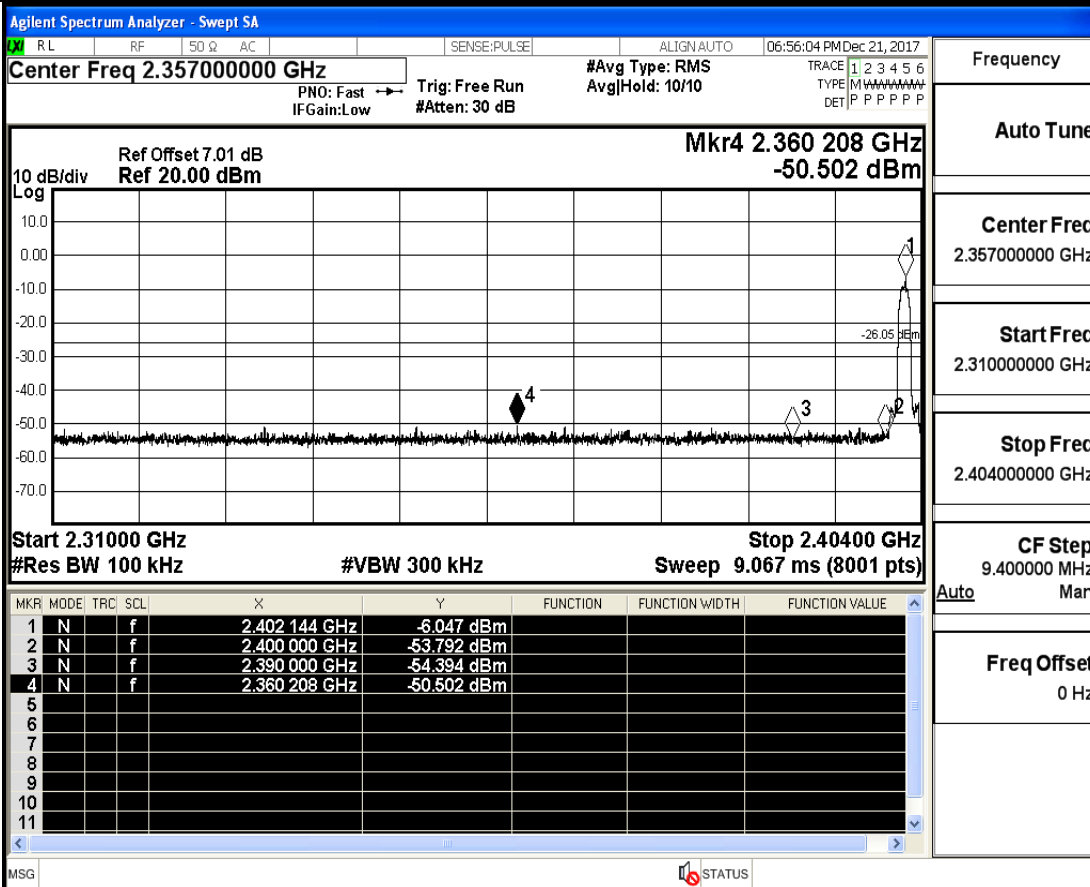
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



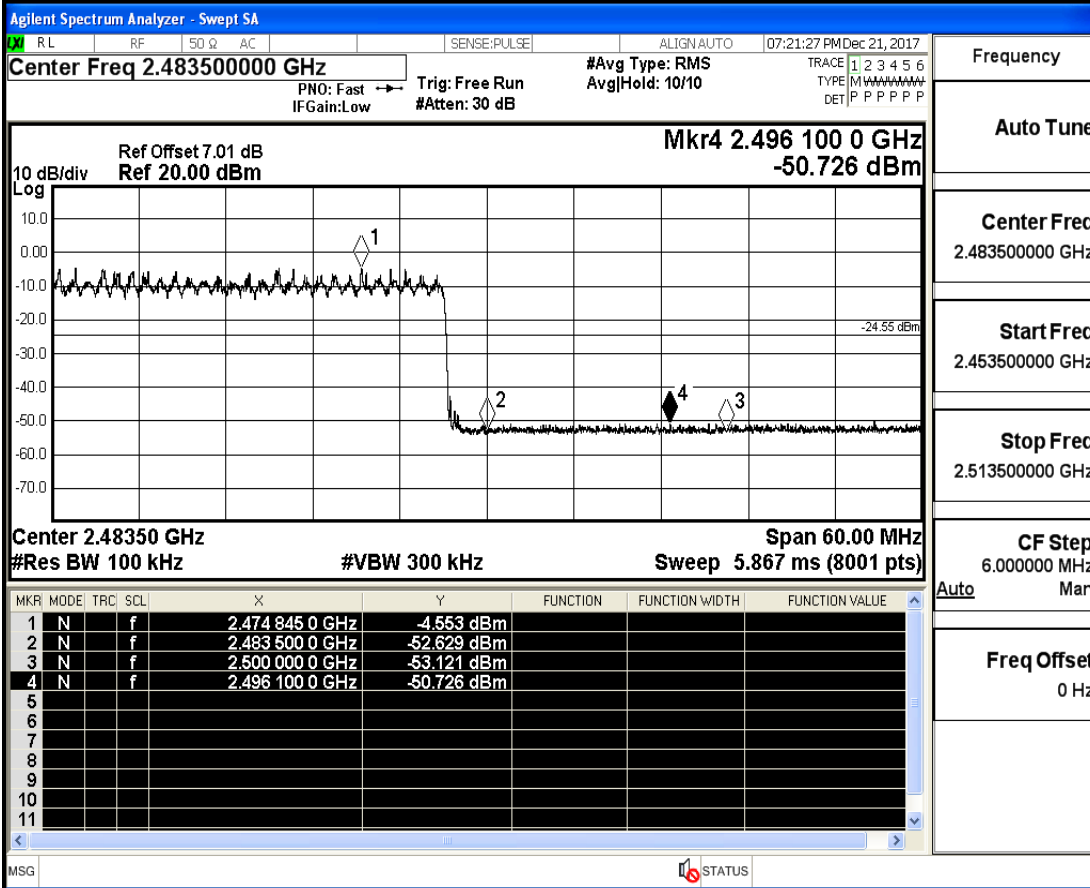
Frequency	
Auto Tune	
Center Freq	2.40000000 GHz
Start Freq	2.37000000 GHz
Stop Freq	2.43000000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



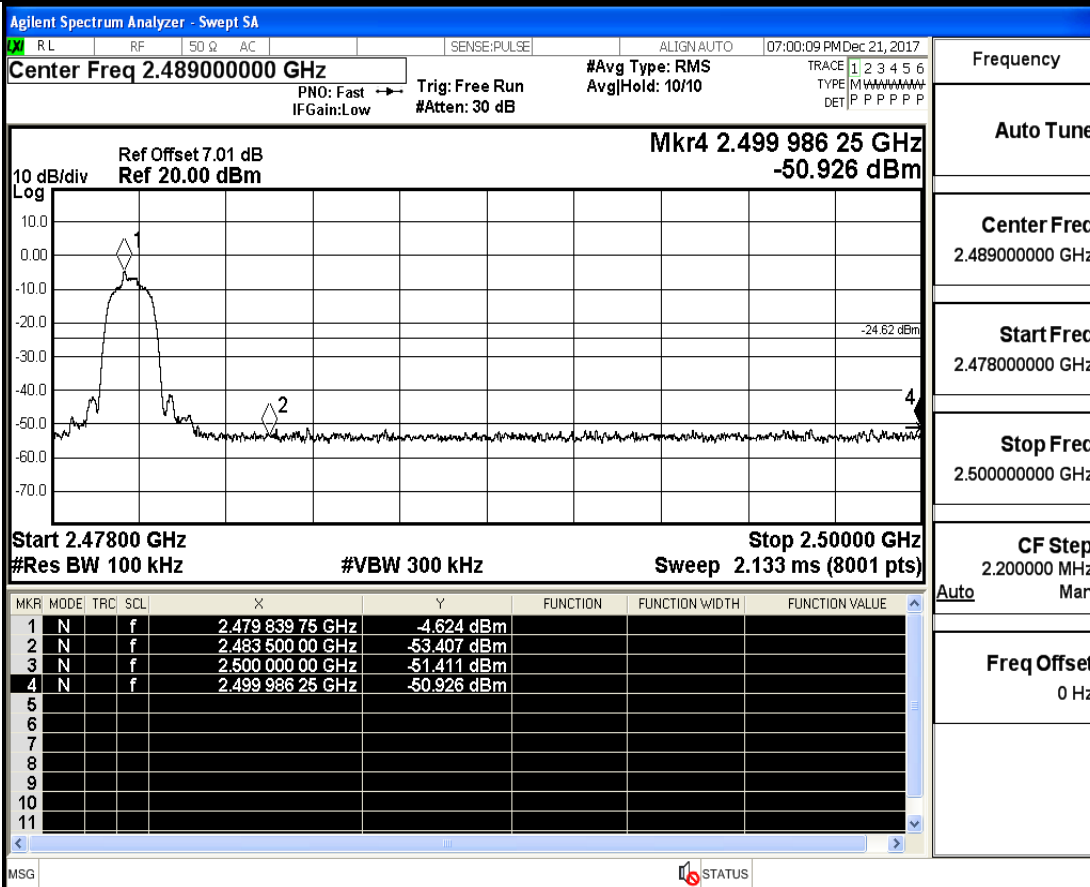
Frequency	
Auto Tune	
Center Freq	2.35700000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.40400000 GHz
CF Step	9.400000 MHz
Auto	Man
Freq Offset	0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



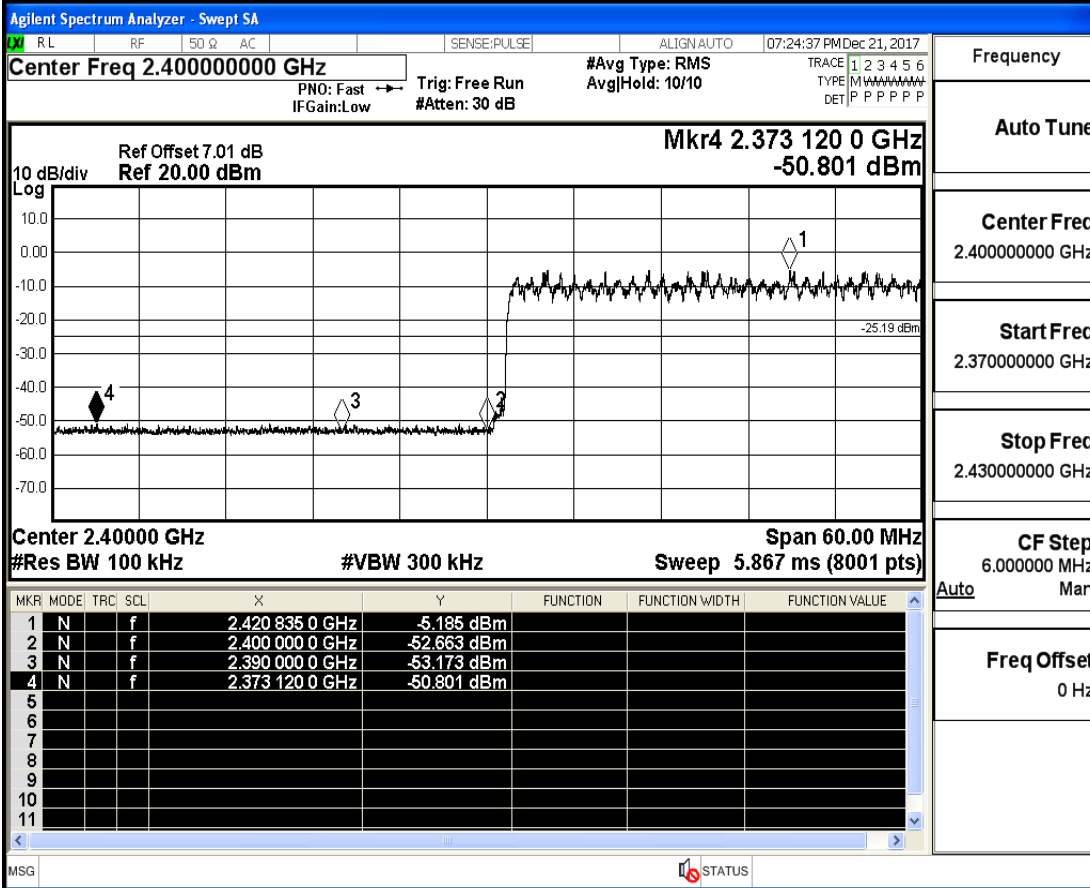
Frequency
Auto Tune
Center Freq 2.483500000 GHz
Start Freq 2.453500000 GHz
Stop Freq 2.513500000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



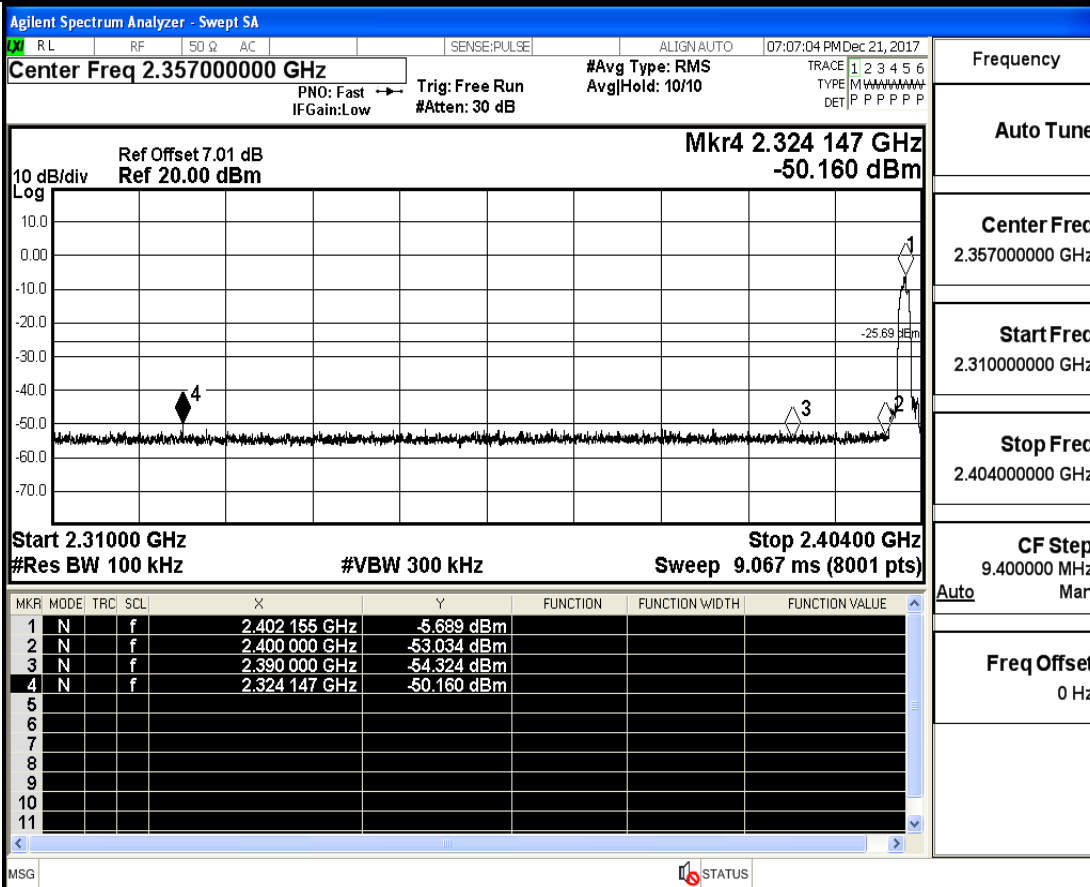
Frequency
Auto Tune
Center Freq 2.489000000 GHz
Start Freq 2.478000000 GHz
Stop Freq 2.500000000 GHz
CF Step 2.200000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



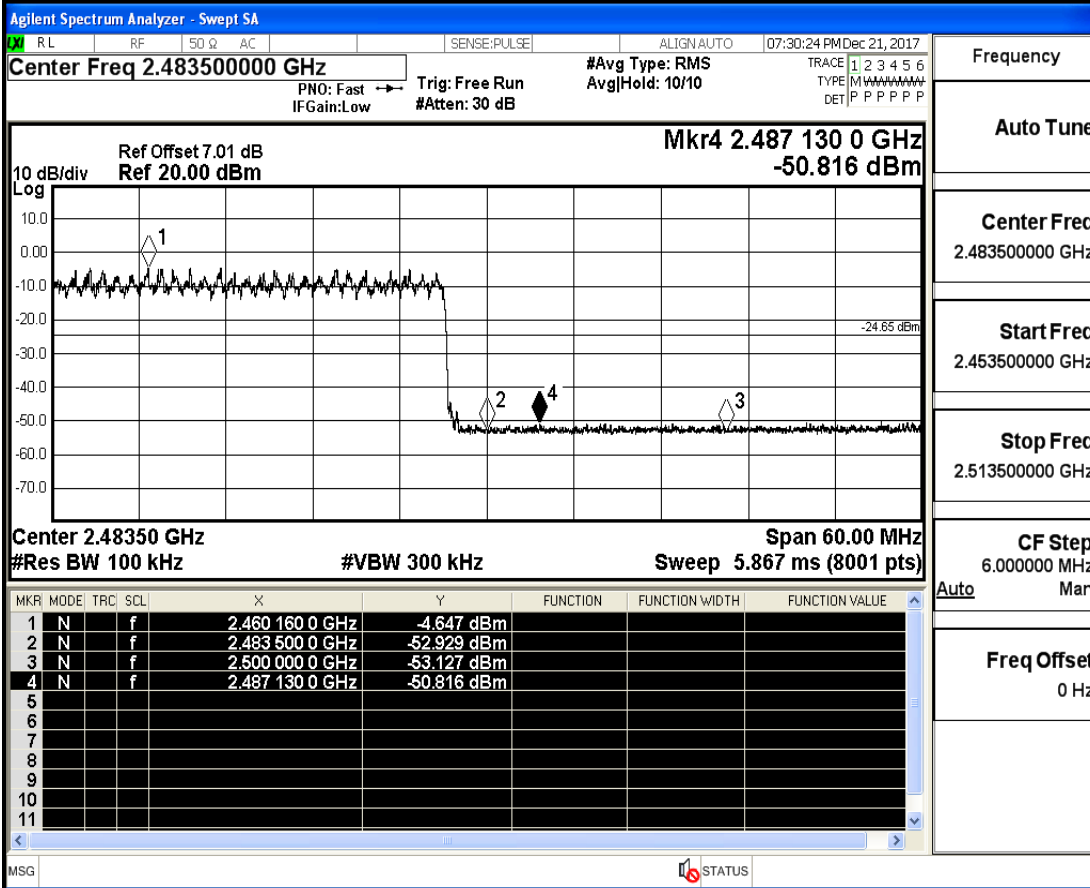
Frequency
Auto Tune
Center Freq 2.40000000 GHz
Start Freq 2.370000000 GHz
Stop Freq 2.430000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



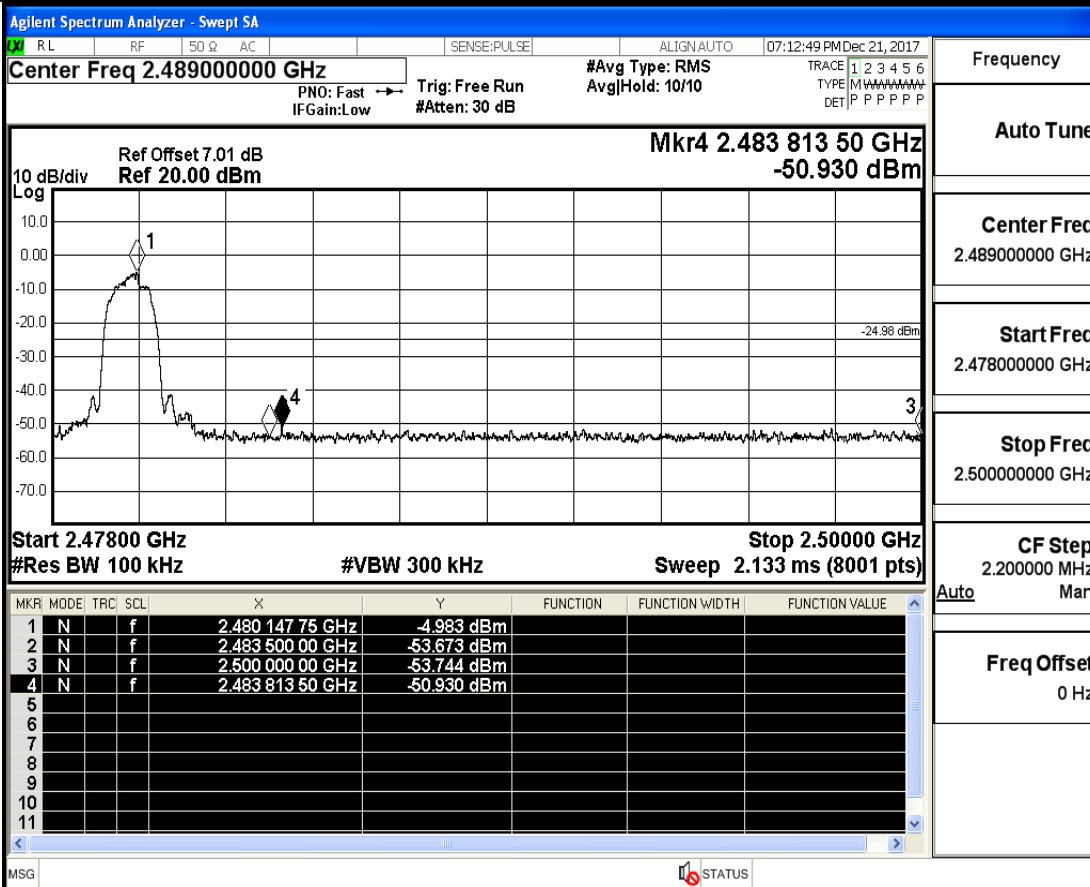
Frequency
Auto Tune
Center Freq 2.35700000 GHz
Start Freq 2.310000000 GHz
Stop Freq 2.404000000 GHz
CF Step 9.400000 MHz Auto Man
Freq Offset 0 Hz

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

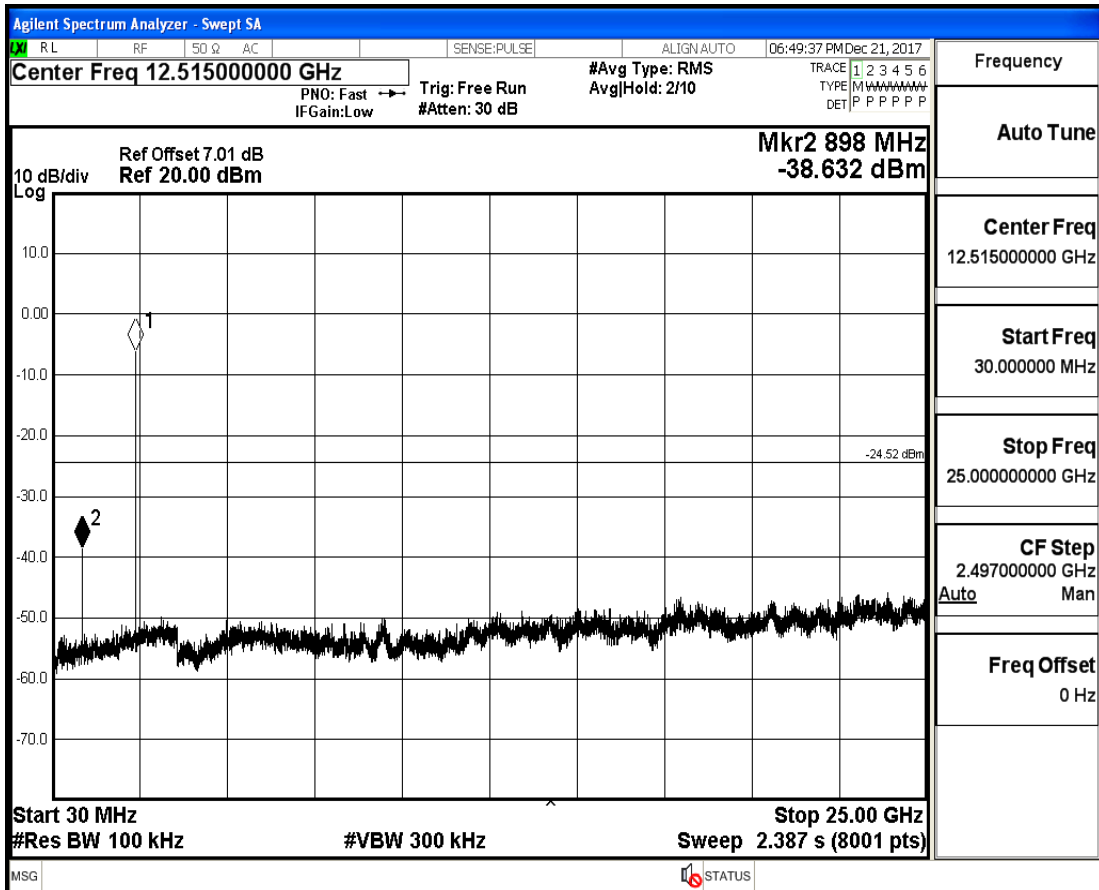
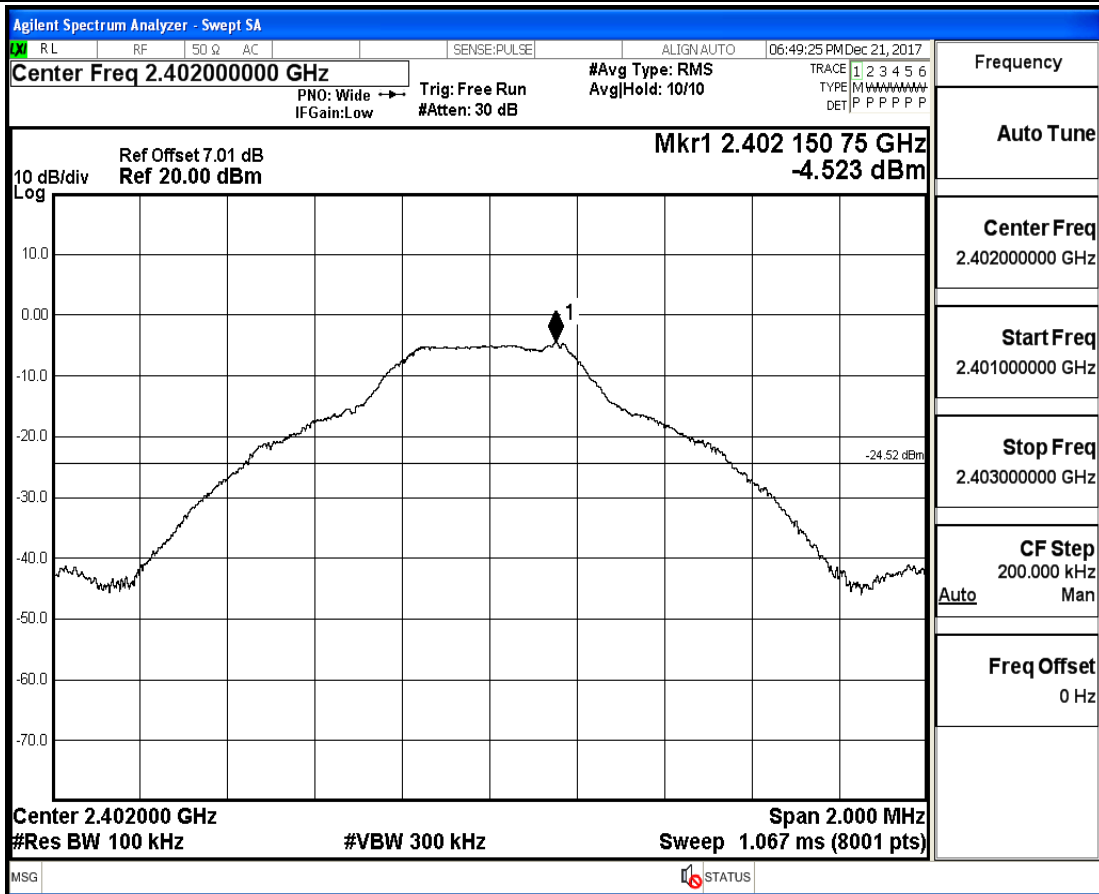


Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

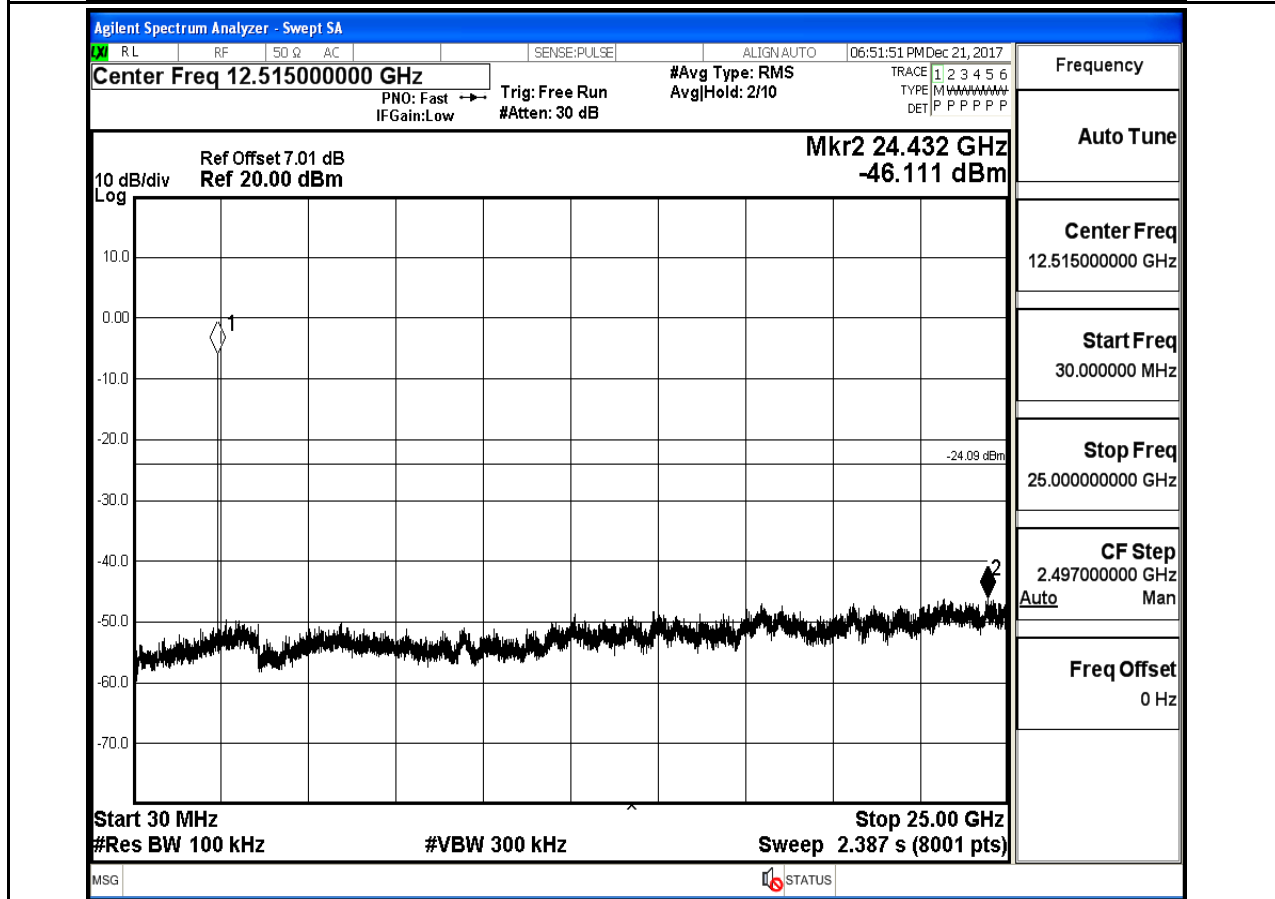
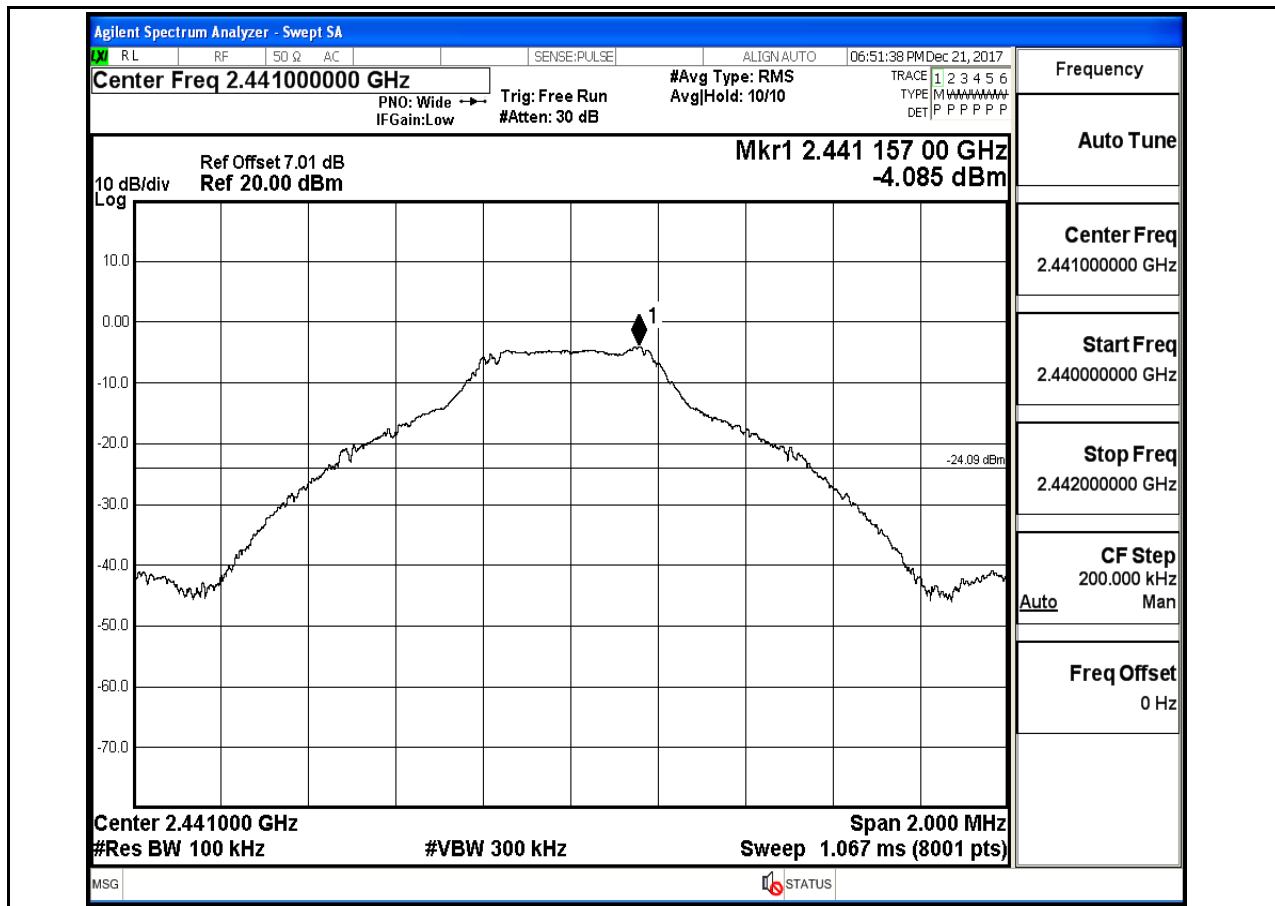
A.7.RF Conducted Spurious Emissions

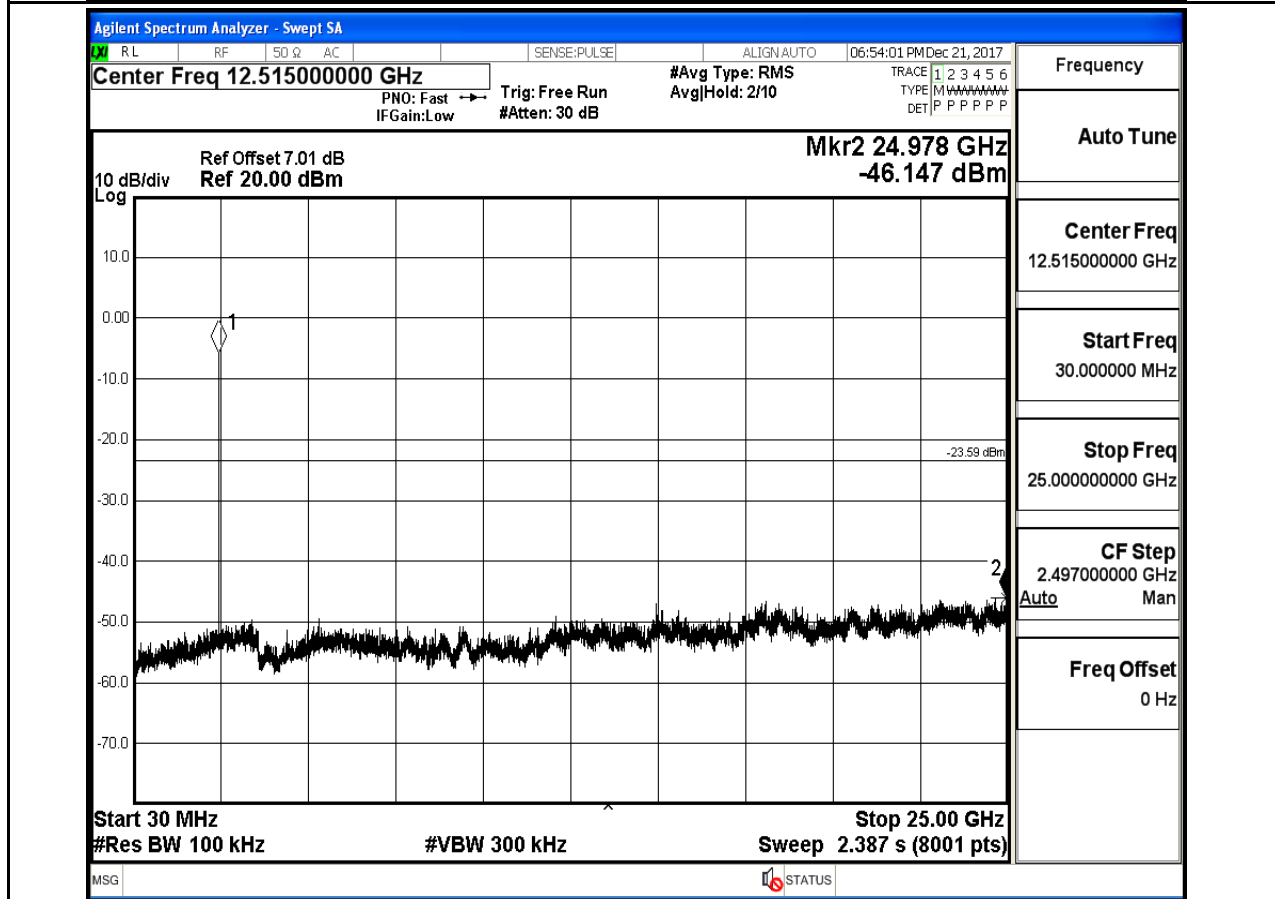
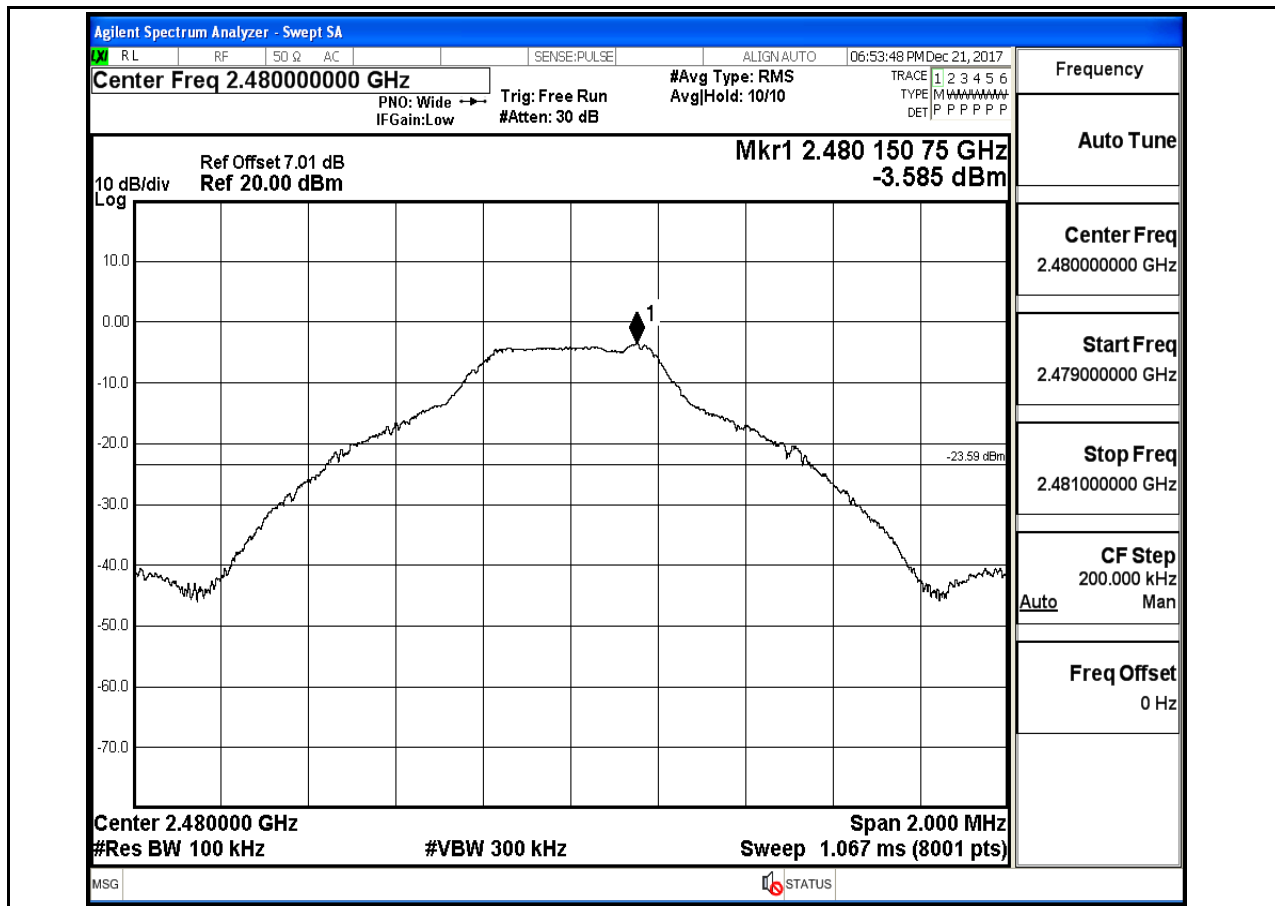
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	25000	100	300	-4.523	-38.632	<- 24.523	PASS
DH5	2441	30	25000	100	300	-4.085	-46.111	<- 24.085	PASS
DH5	2480	30	25000	100	300	-3.585	-46.147	<- 23.585	PASS
2DH5	2402	30	25000	100	300	-5.73	-45.598	<-25.73	PASS
2DH5	2441	30	25000	100	300	-5.216	-44.850	<- 25.216	PASS
2DH5	2480	30	25000	100	300	-4.788	-45.202	<- 24.788	PASS
3DH5	2402	30	25000	100	300	-5.767	-45.480	<- 25.767	PASS
3DH5	2441	30	25000	100	300	-5.162	-45.505	<- 25.162	PASS
3DH5	2480	30	25000	100	300	-4.606	-45.283	<- 24.606	PASS

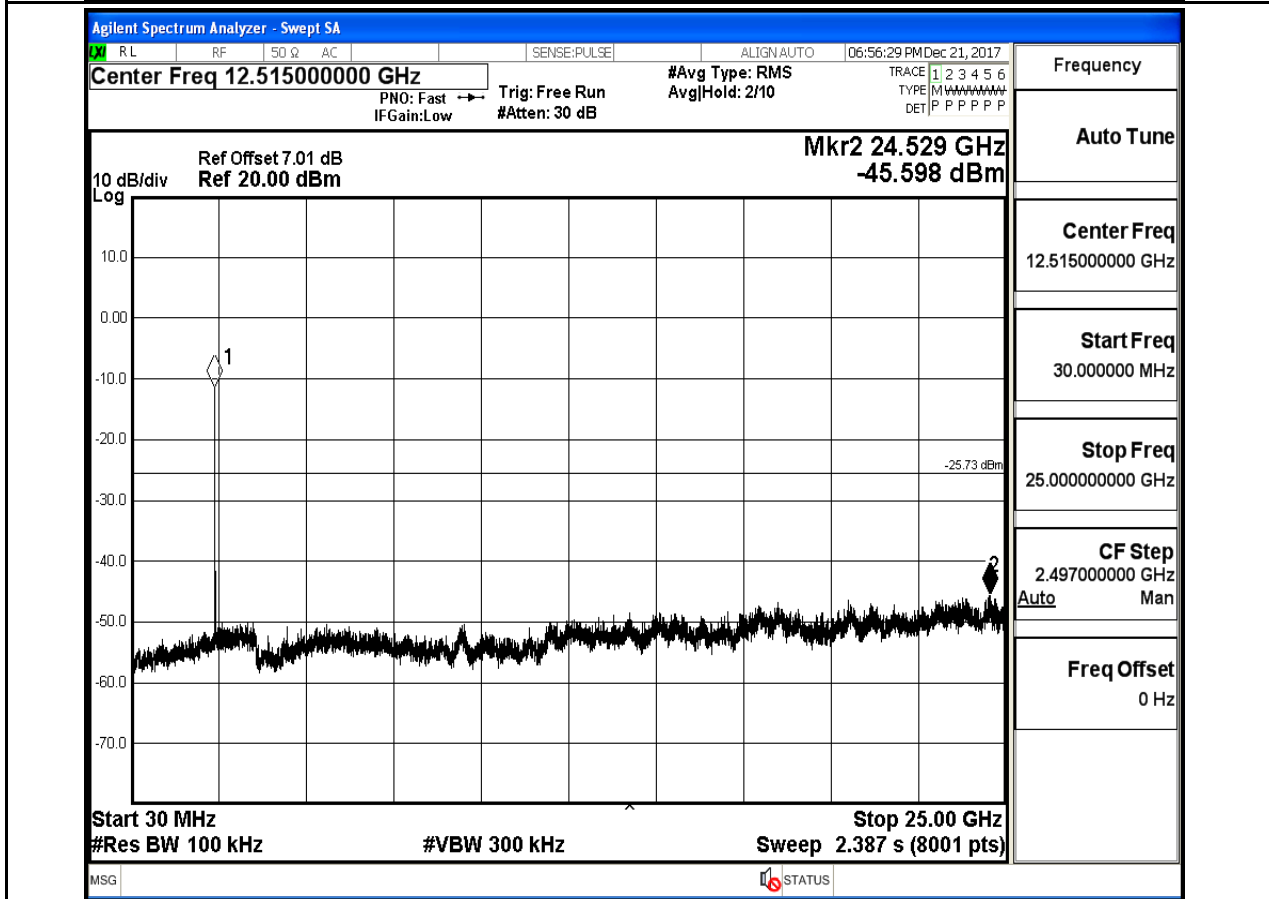
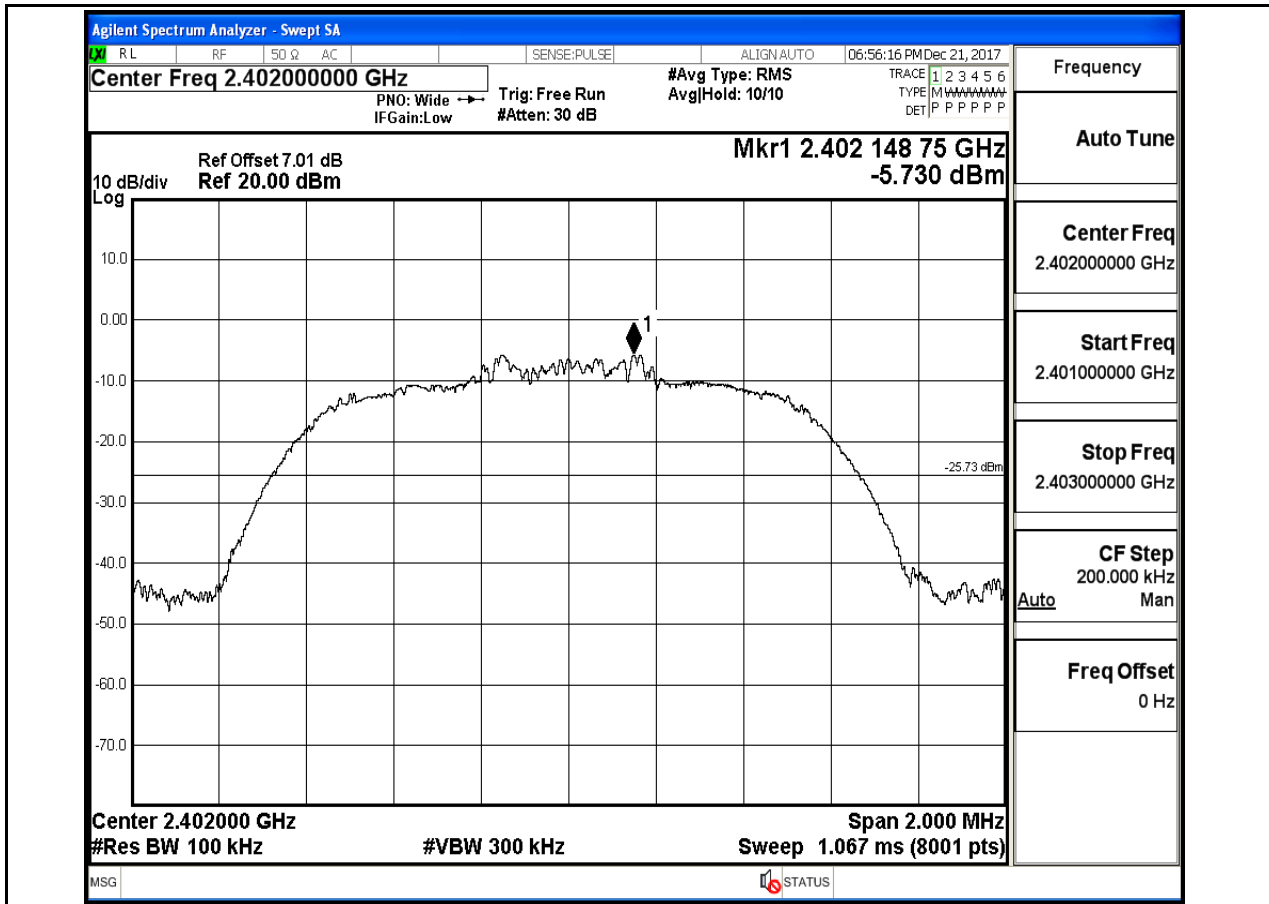
RF Conducted Spurious Emissions_DH5_2402

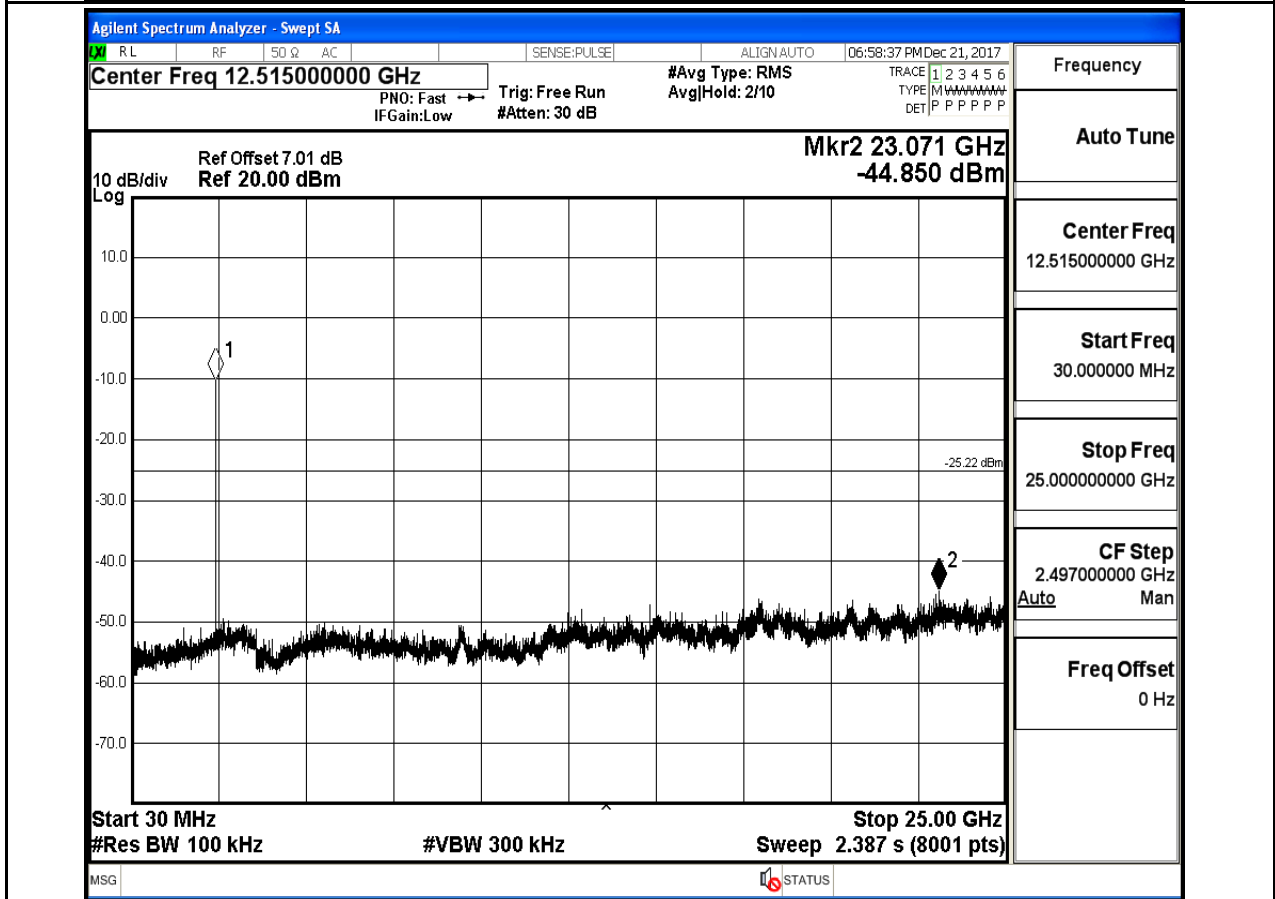
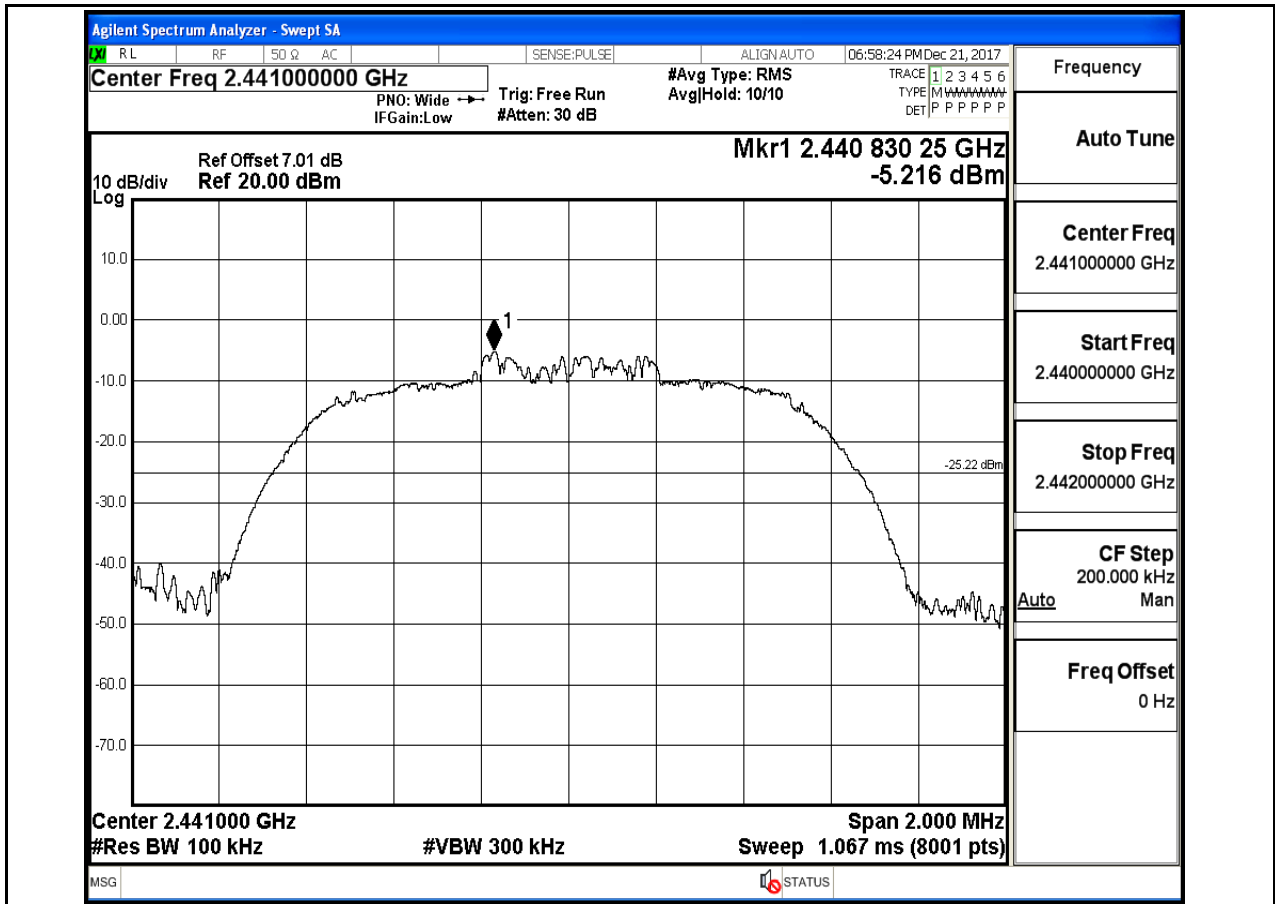


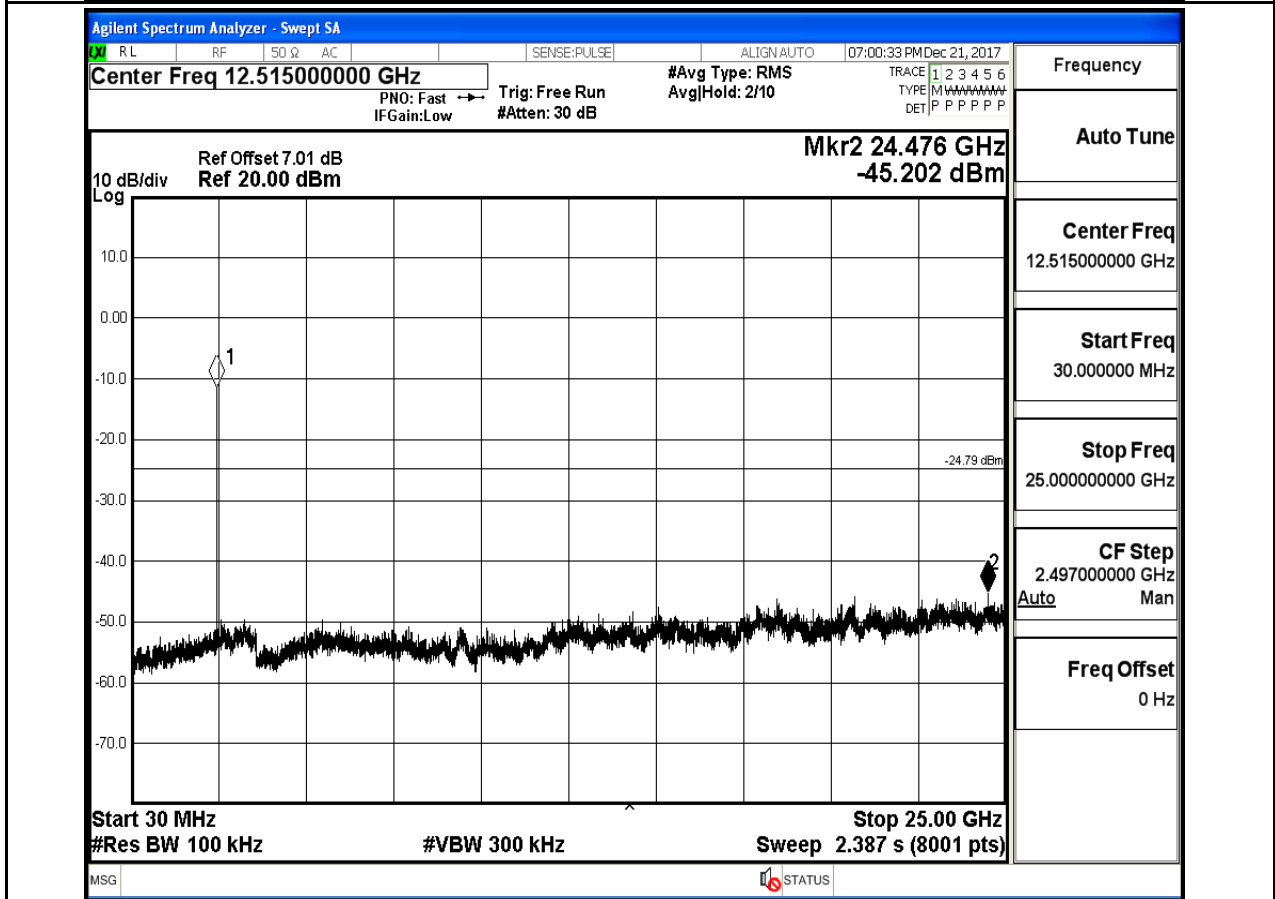
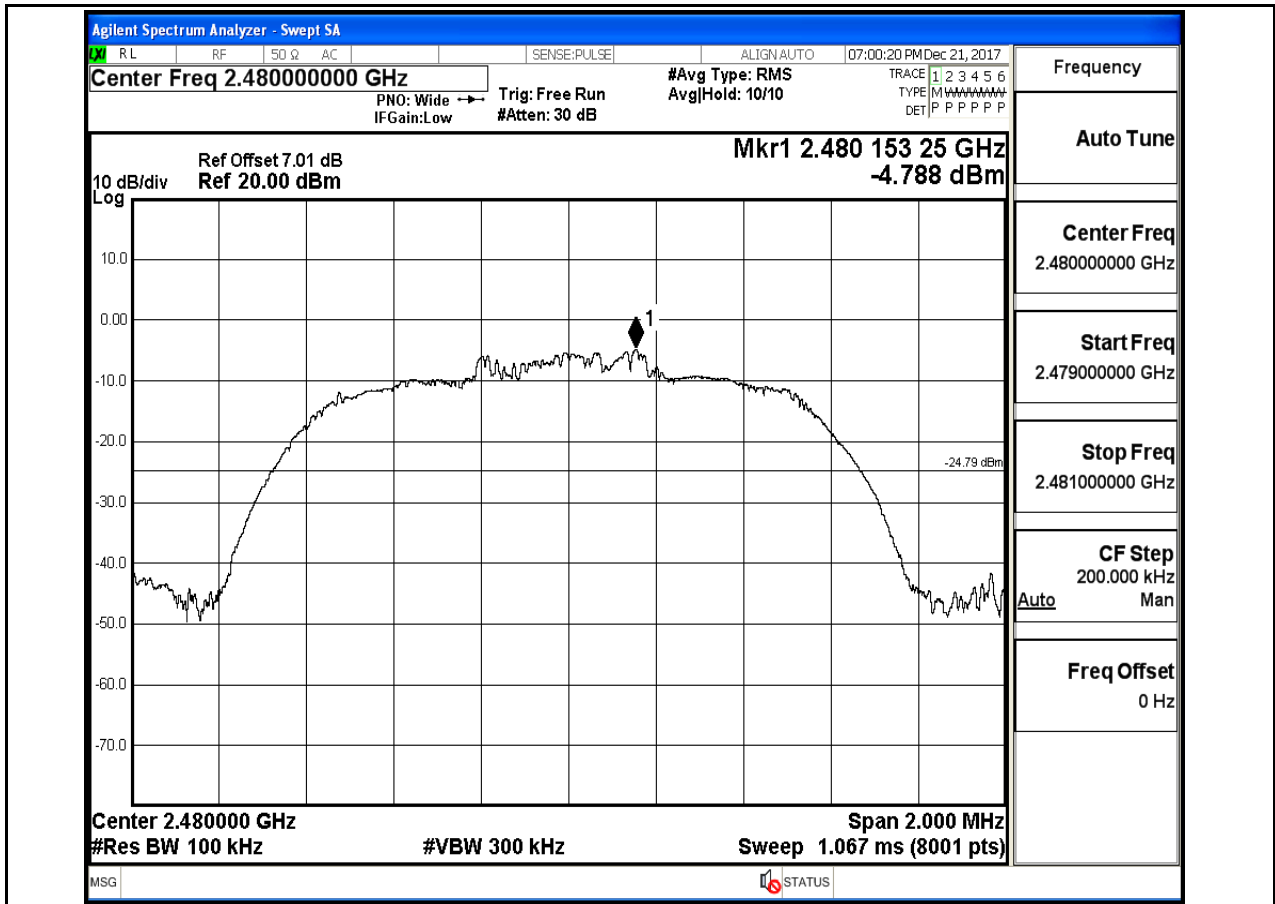
RF Conducted Spurious Emissions_DH5_2441

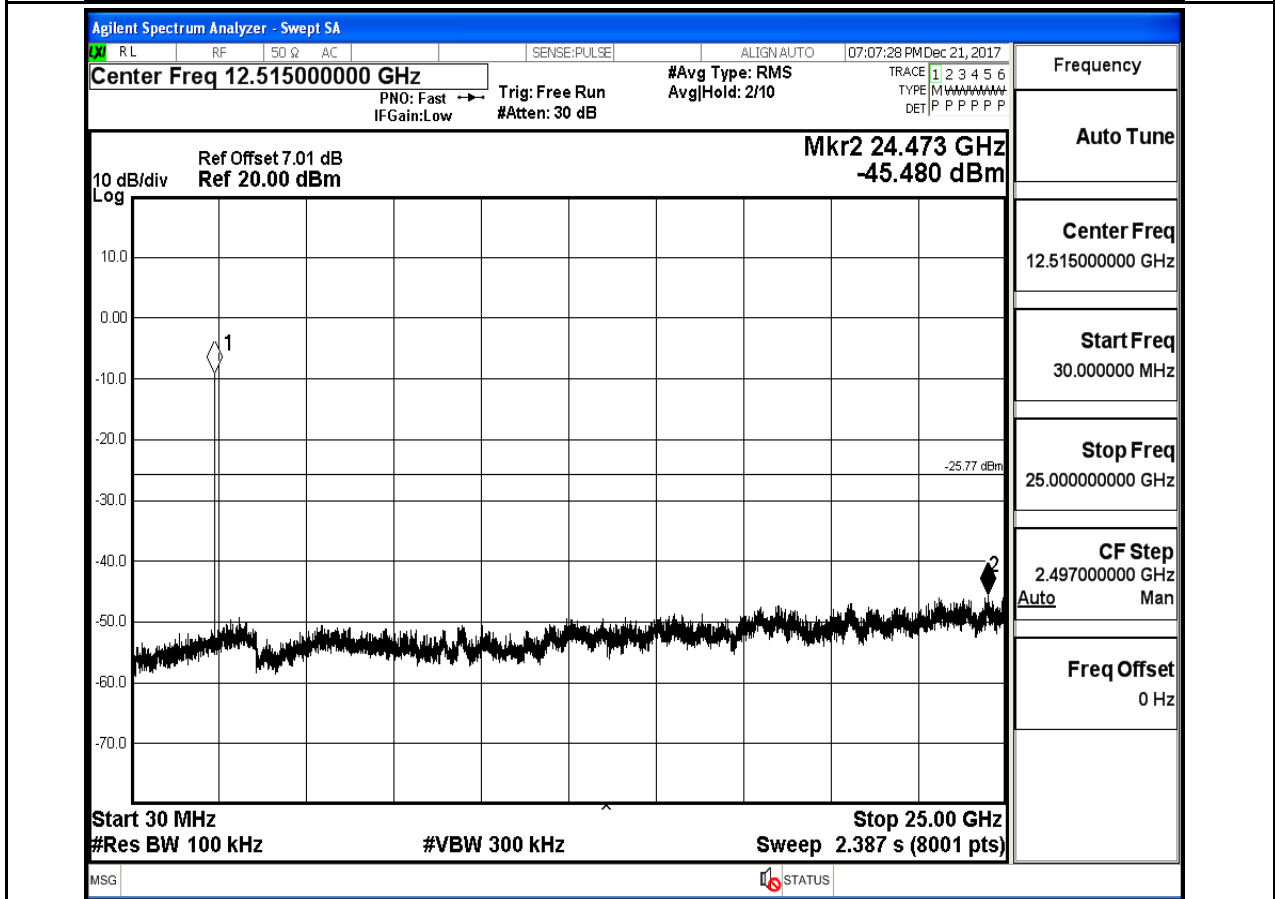
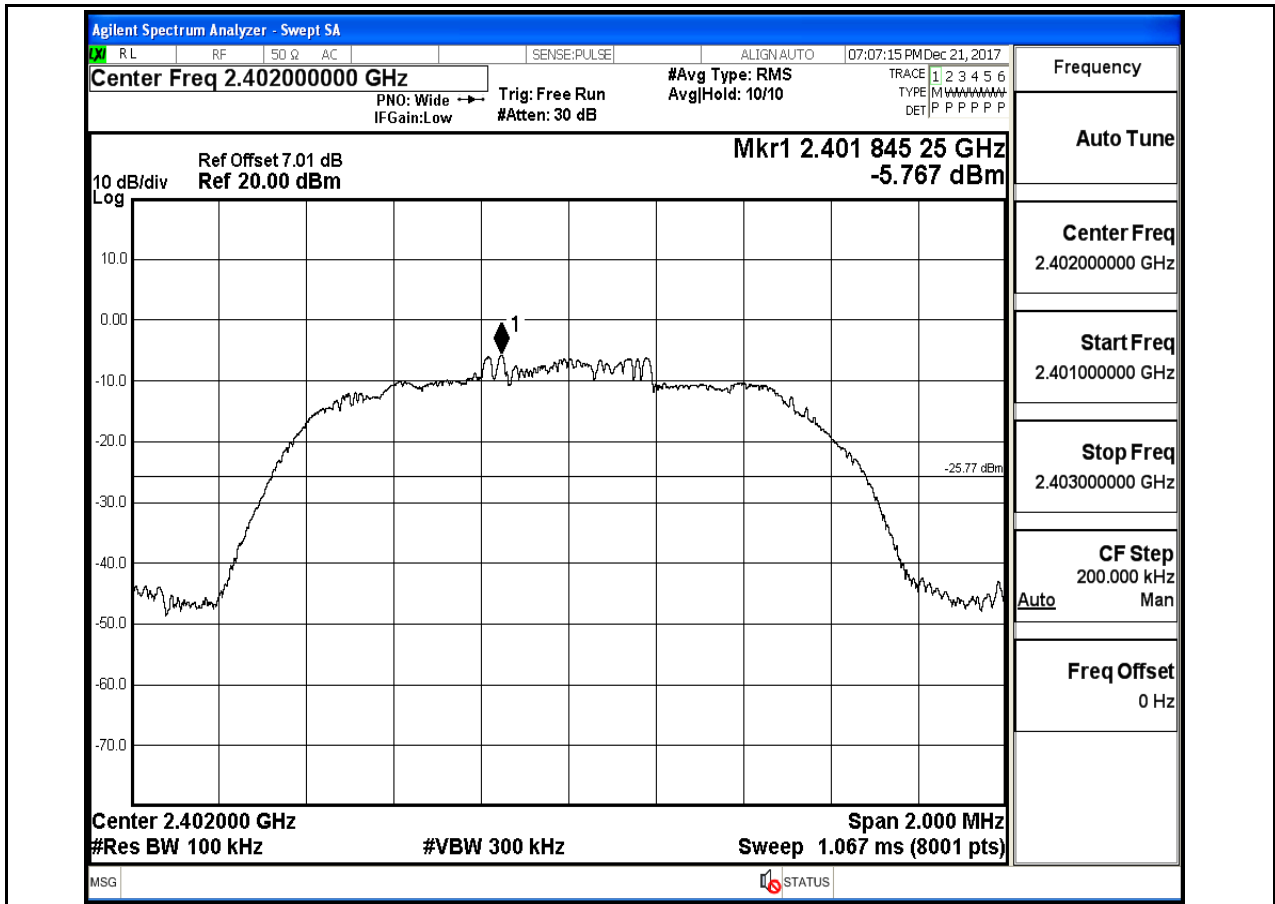


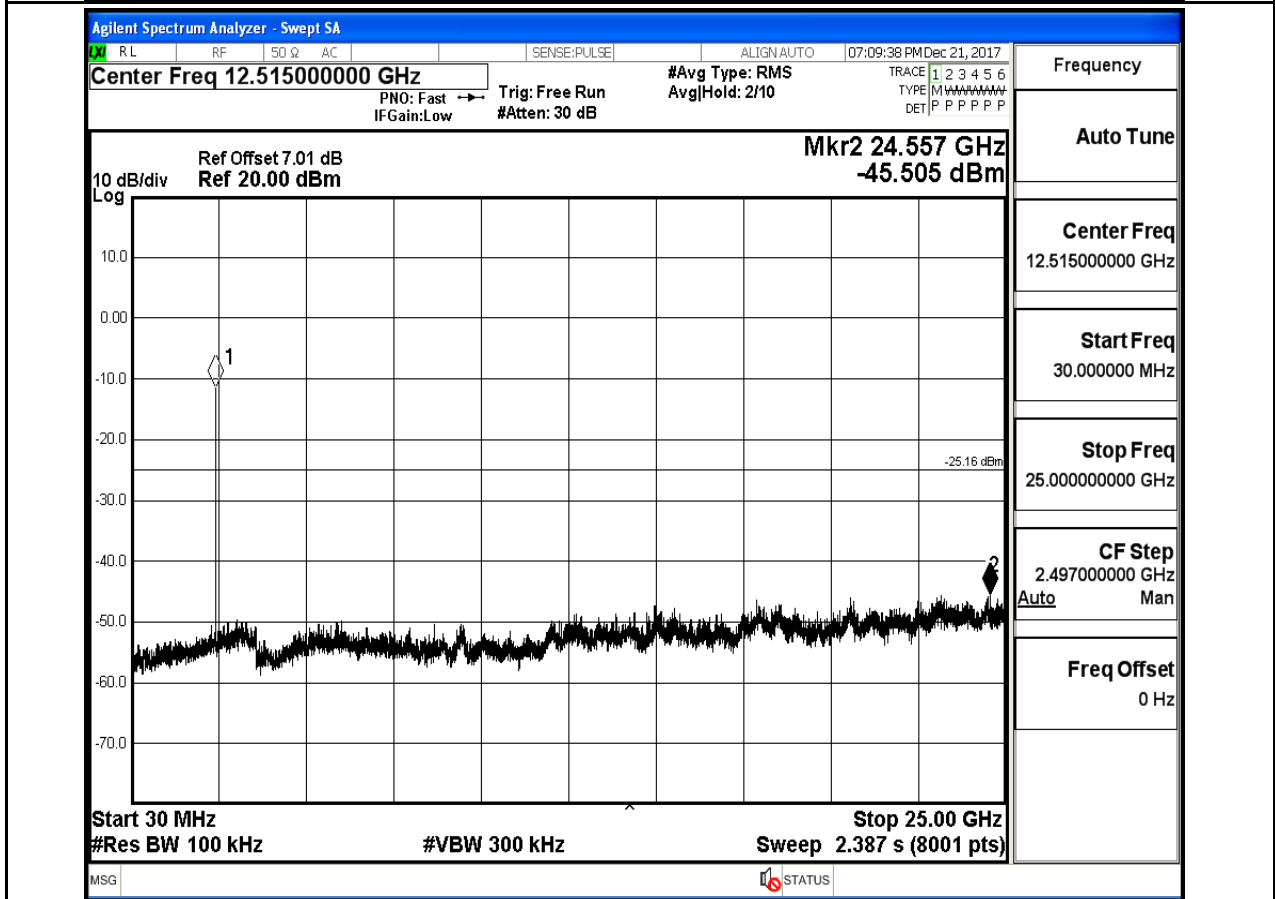
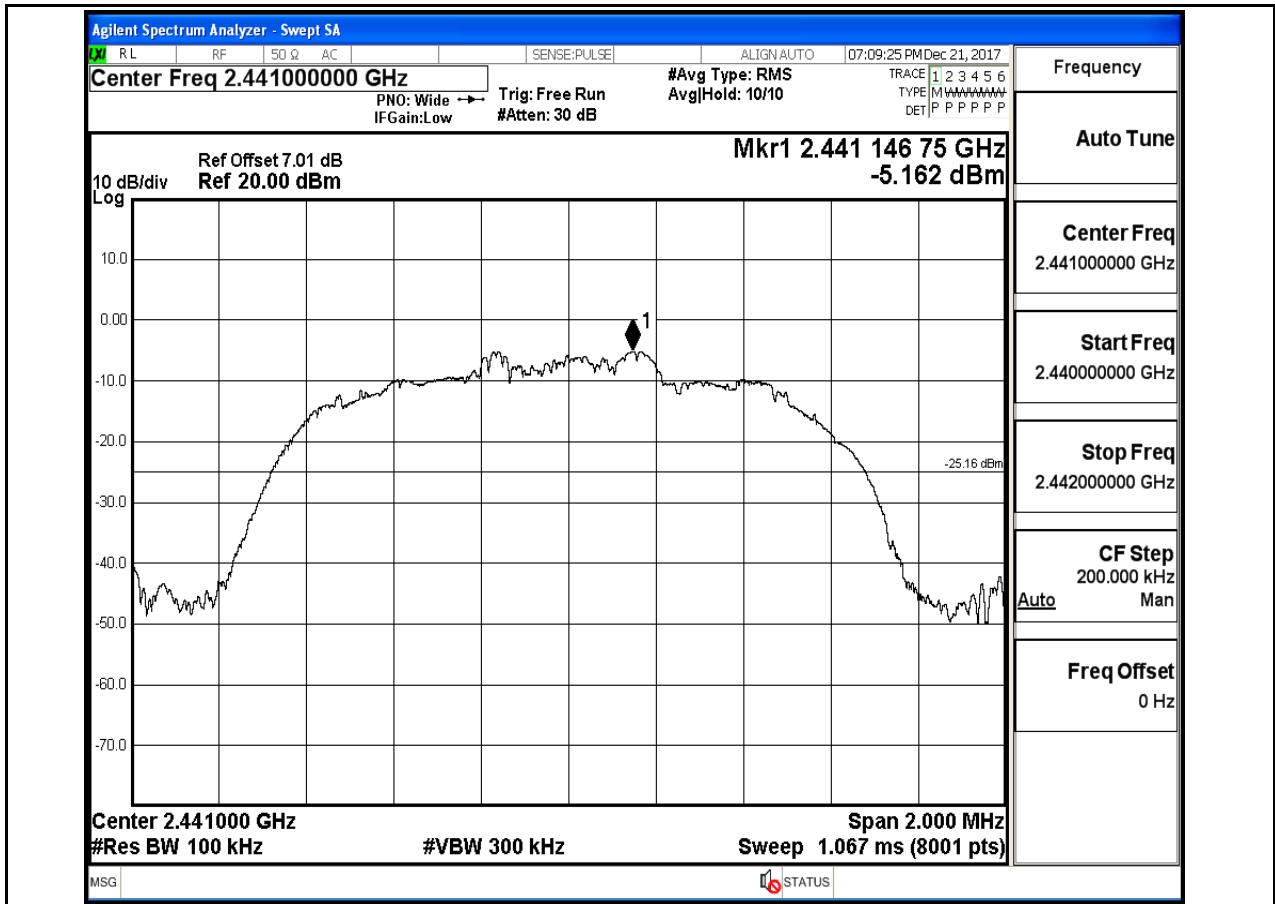


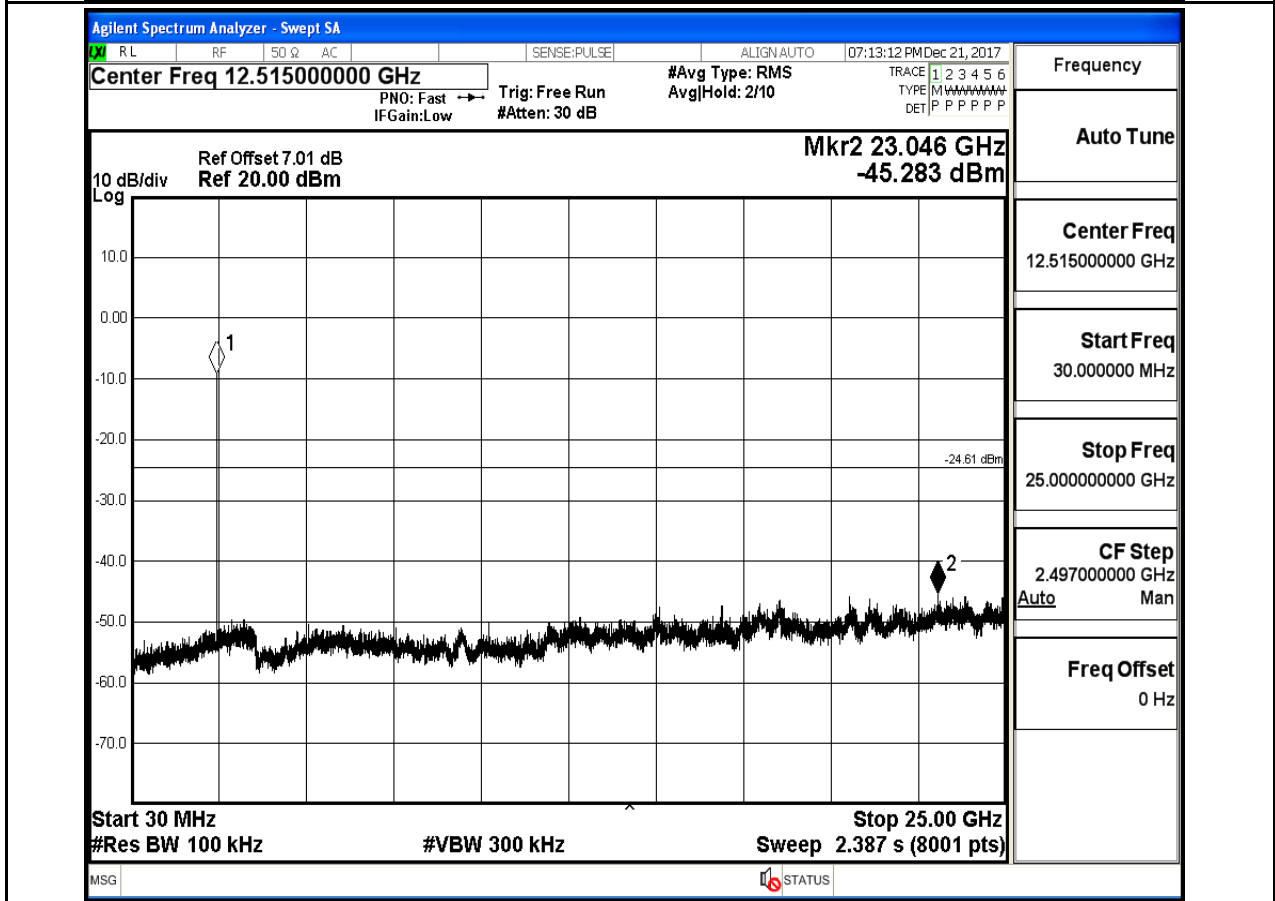
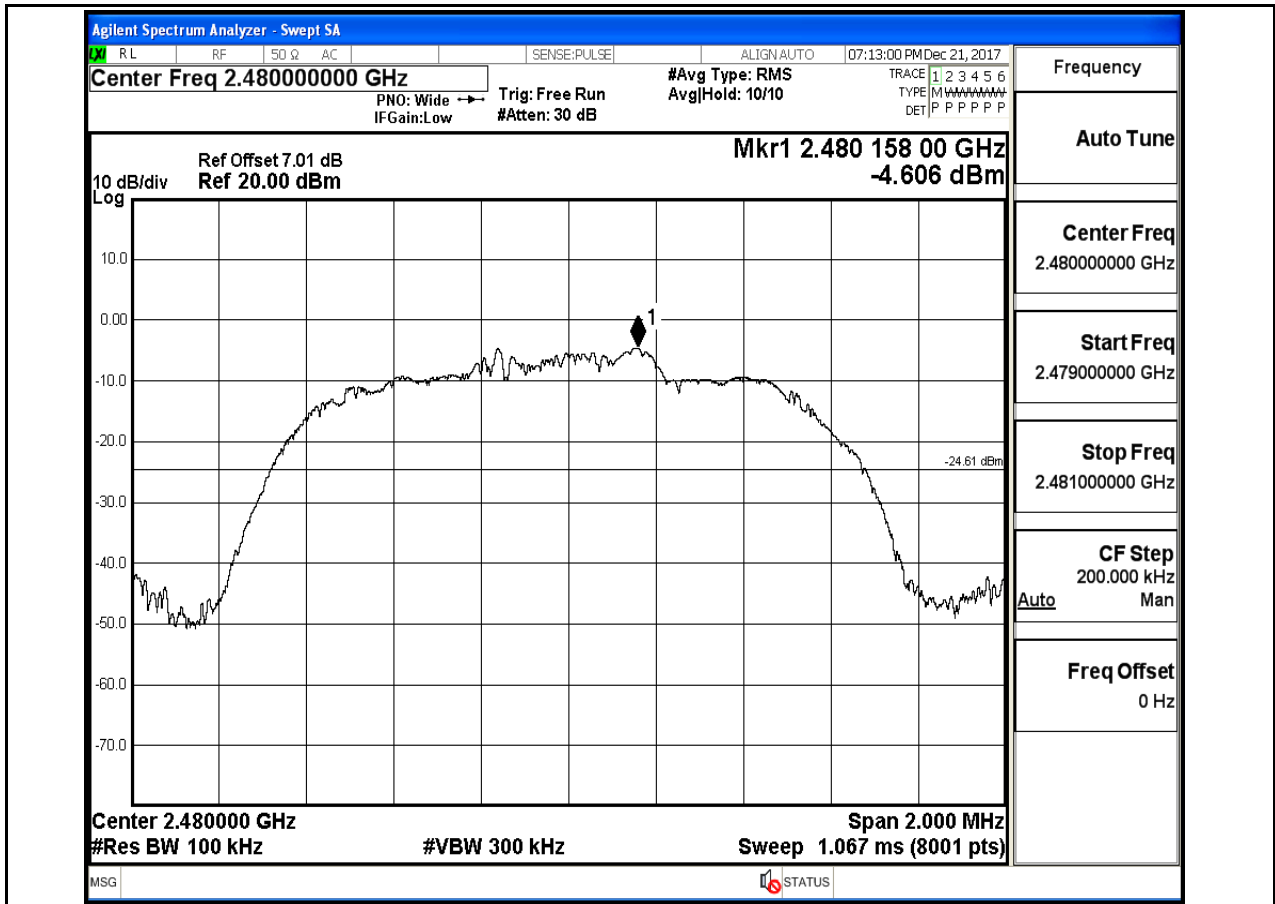








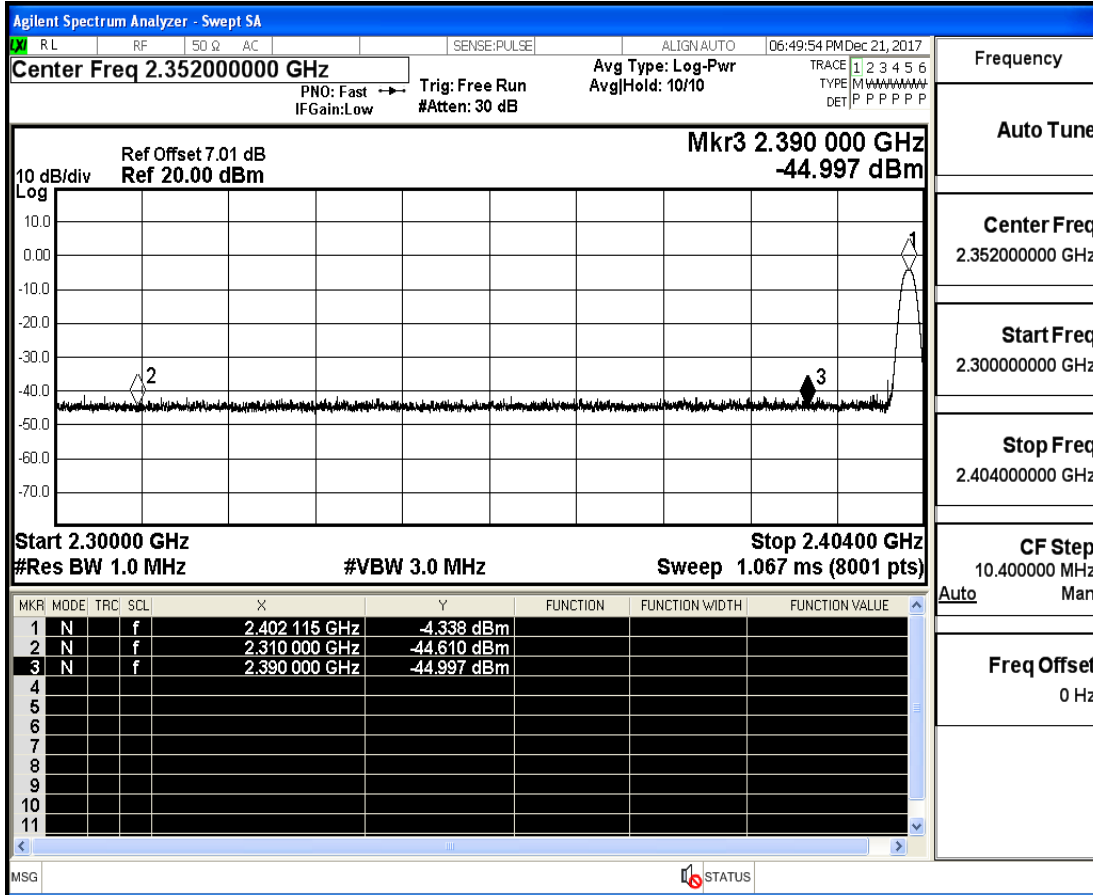




A.8.Restrict-band band-edge measurements

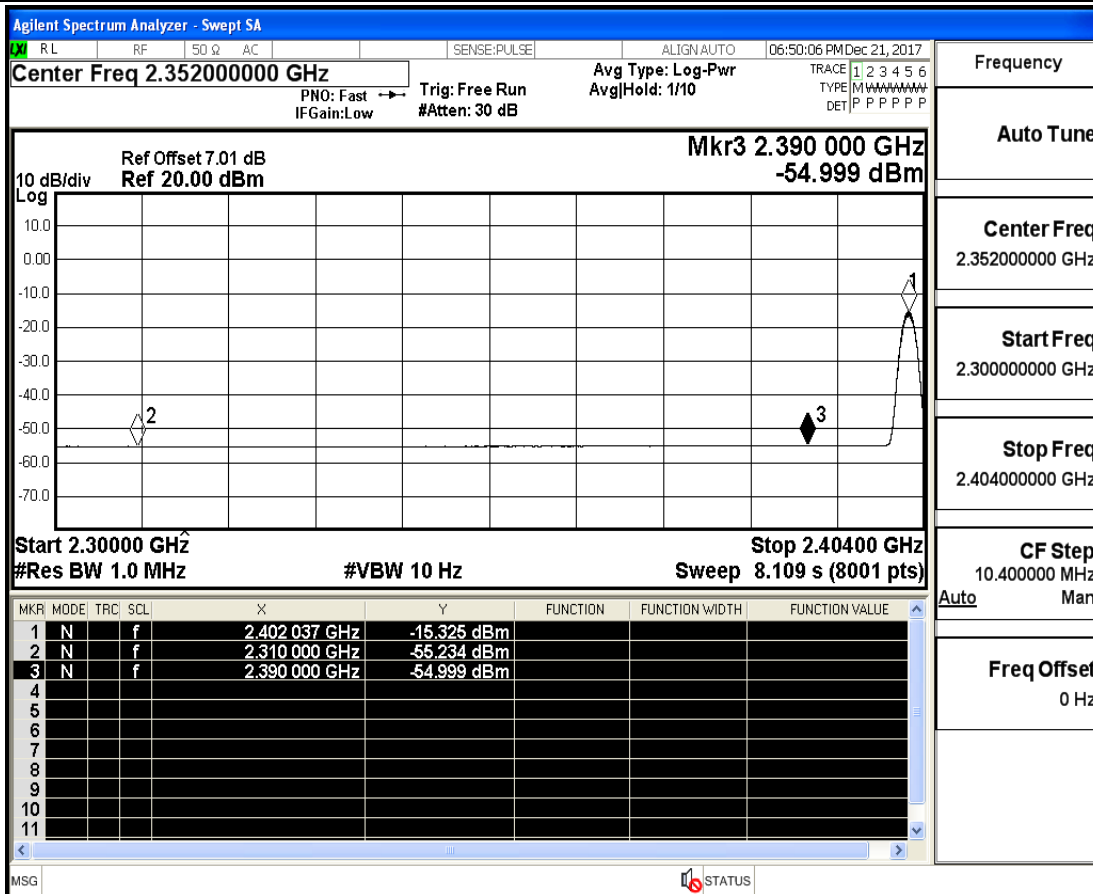
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
DH5	On	2310.0	-44.61	2	0	52.65	PEAK	74	PASS
DH5	On	2310.0	-55.23	2	0	42.02	AV	54	PASS
DH5	On	2390.0	-45.00	2	0	52.26	PEAK	74	PASS
DH5	On	2390.0	-55.00	2	0	42.26	AV	54	PASS
DH5	On	2483.5	-44.67	2	0	52.59	PEAK	74	PASS
DH5	On	2483.5	-54.75	2	0	42.51	AV	54	PASS
DH5	On	2500.0	-45.00	2	0	52.25	PEAK	74	PASS
DH5	On	2500.0	-54.62	2	0	42.64	AV	54	PASS
2DH5	On	2310.0	-44.60	2	0	52.65	PEAK	74	PASS
2DH5	On	2310.0	-55.22	2	0	42.04	AV	54	PASS
2DH5	On	2390.0	-44.19	2	0	53.07	PEAK	74	PASS
2DH5	On	2390.0	-54.96	2	0	42.30	AV	54	PASS
2DH5	On	2483.5	-43.11	2	0	54.15	PEAK	74	PASS
2DH5	On	2483.5	-54.74	2	0	42.52	AV	54	PASS
2DH5	On	2500.0	-44.15	2	0	53.11	PEAK	74	PASS
2DH5	On	2500.0	-54.65	2	0	42.61	AV	54	PASS
3DH5	On	2310.0	-45.32	2	0	51.94	PEAK	74	PASS
3DH5	On	2310.0	-55.22	2	0	42.04	AV	54	PASS
3DH5	On	2390.0	-43.72	2	0	53.54	PEAK	74	PASS
3DH5	On	2390.0	-55.00	2	0	42.26	AV	54	PASS
3DH5	On	2483.5	-43.93	2	0	53.33	PEAK	74	PASS
3DH5	On	2483.5	-54.77	2	0	42.49	AV	54	PASS
3DH5	On	2500.0	-44.58	2	0	52.68	PEAK	74	PASS
3DH5	On	2500.0	-54.63	2	0	42.63	AV	54	PASS

Restrict-band band-edge measurements_2402_PEAK



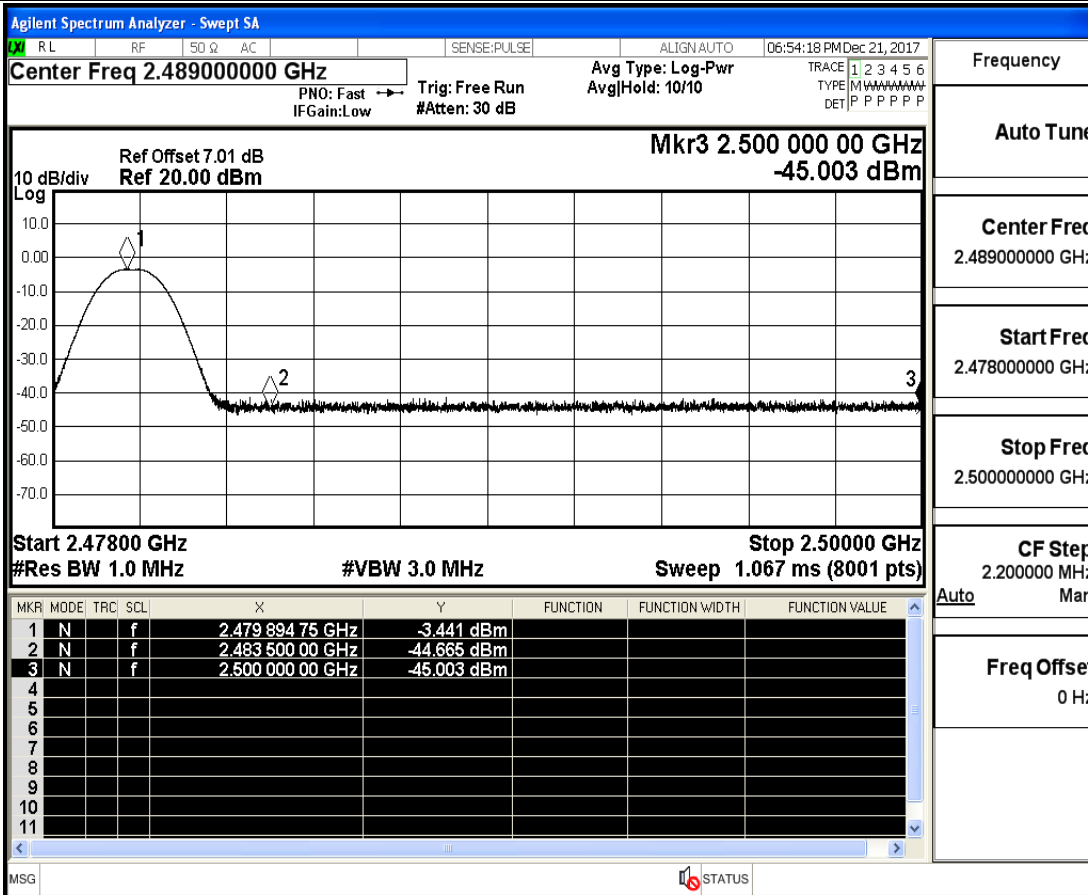
Frequency	
Auto Tune	
Center Freq	2.35200000 GHz
Start Freq	2.30000000 GHz
Stop Freq	2.40400000 GHz
CF Step	10.400000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2402_AV



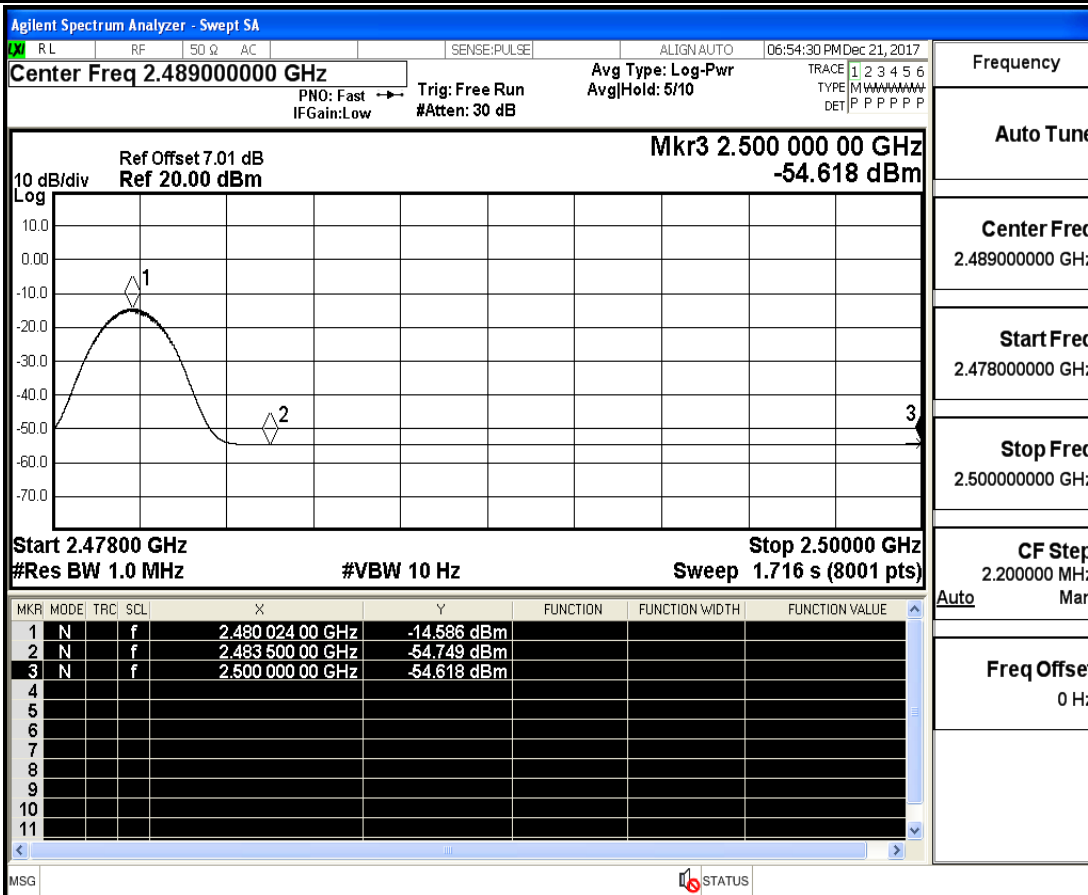
Frequency	
Auto Tune	
Center Freq	2.35200000 GHz
Start Freq	2.30000000 GHz
Stop Freq	2.40400000 GHz
CF Step	10.400000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_PEAK



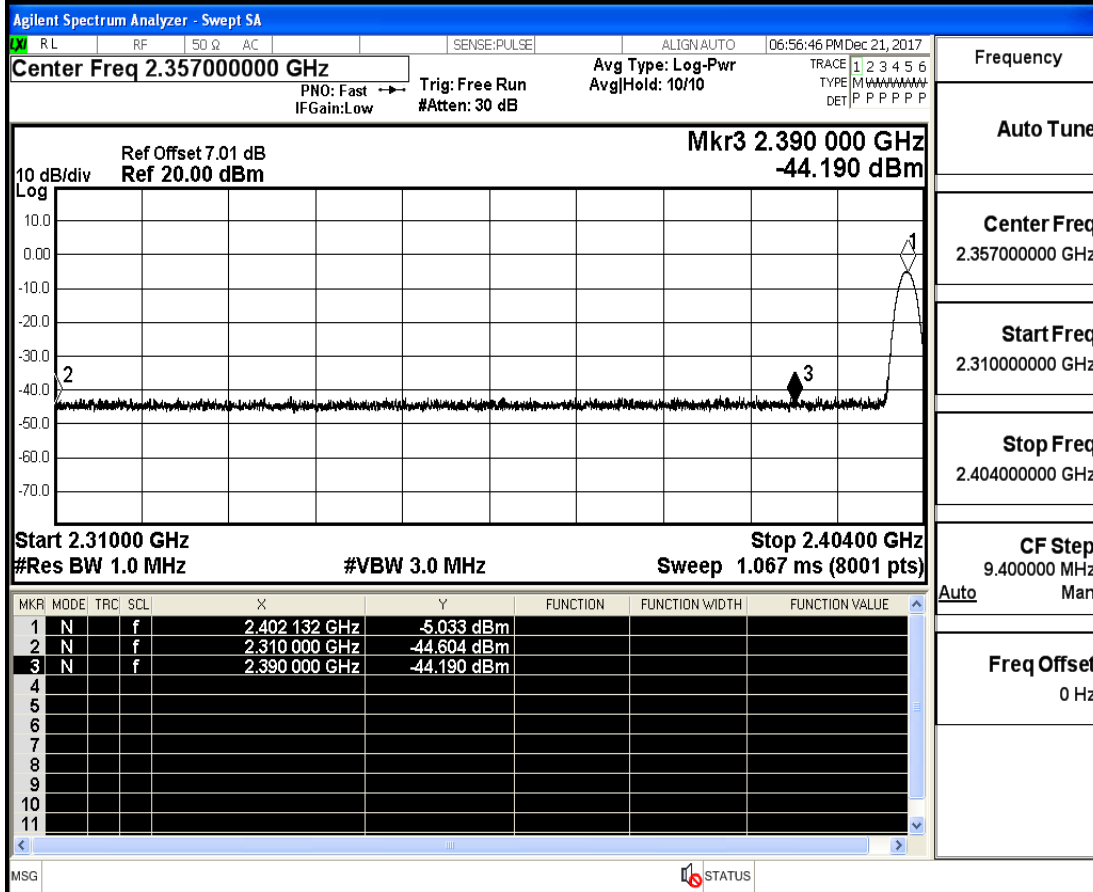
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_AV



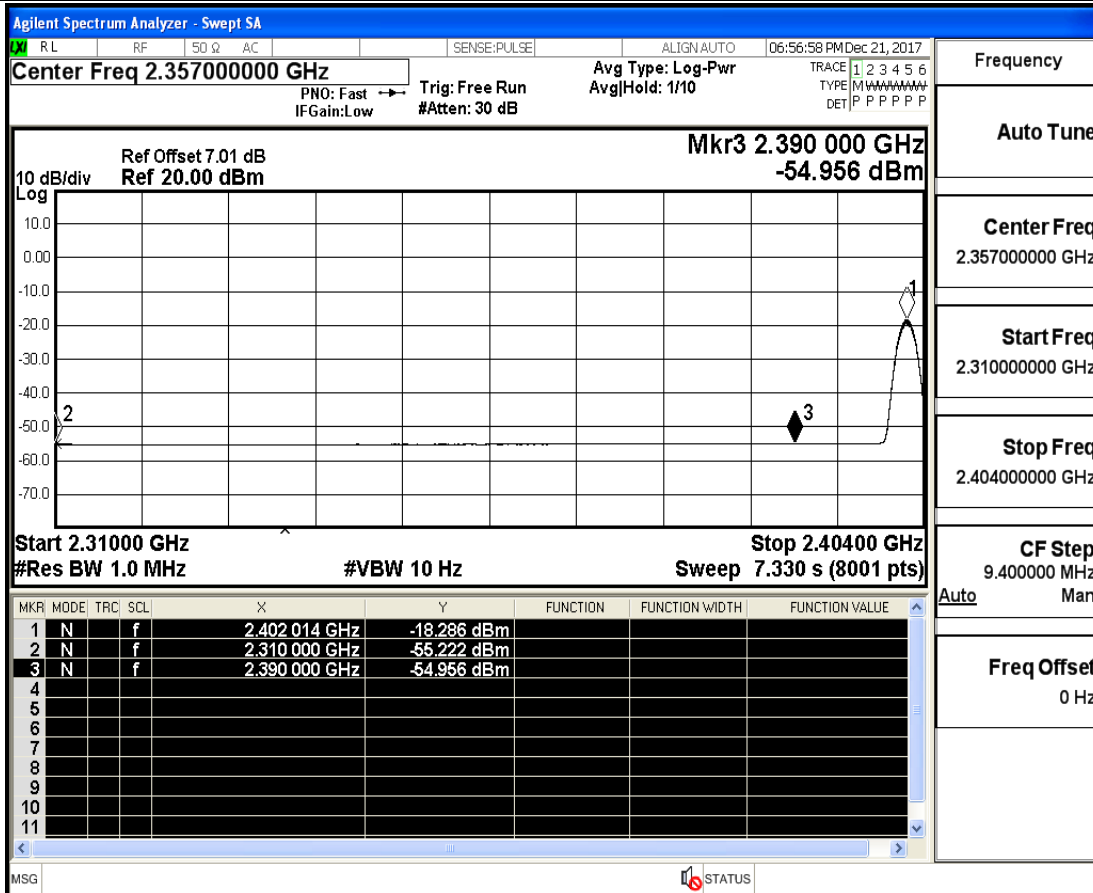
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2402_PEAK



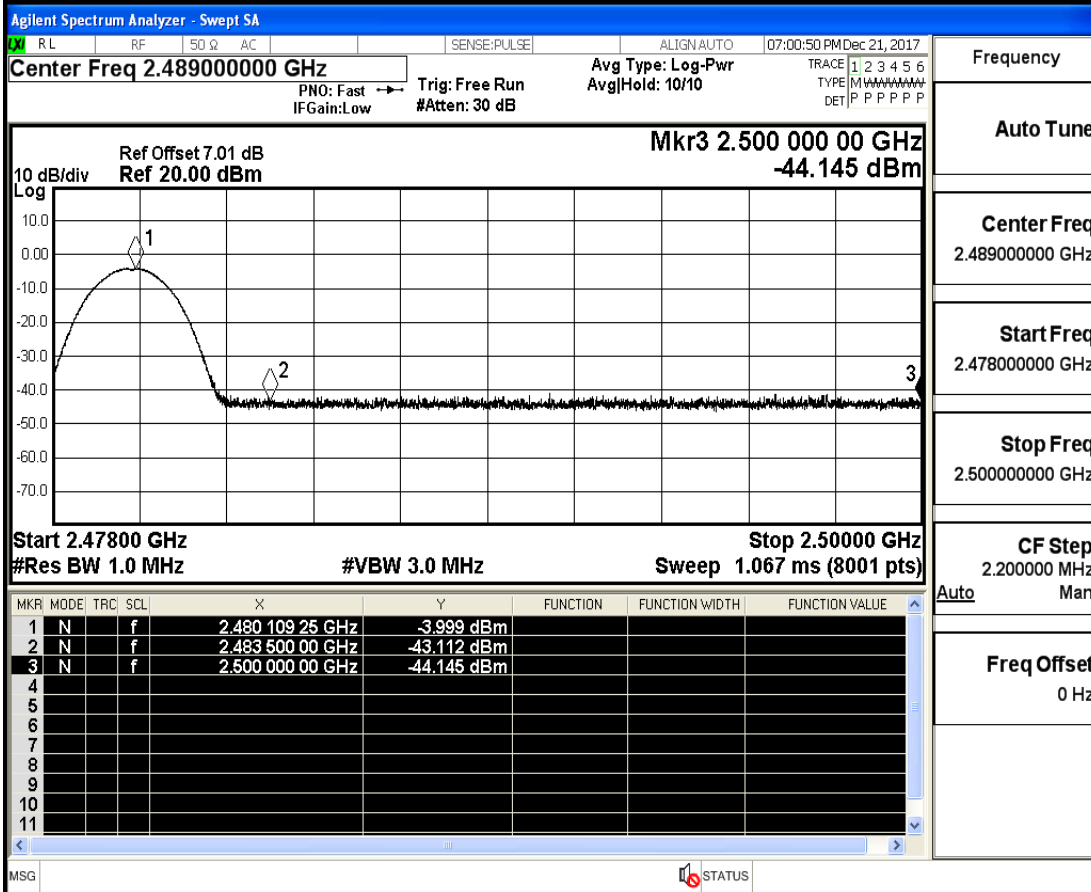
Frequency	
Auto Tune	
Center Freq	2.357000000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.404000000 GHz
CF Step	9.400000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2402_AV



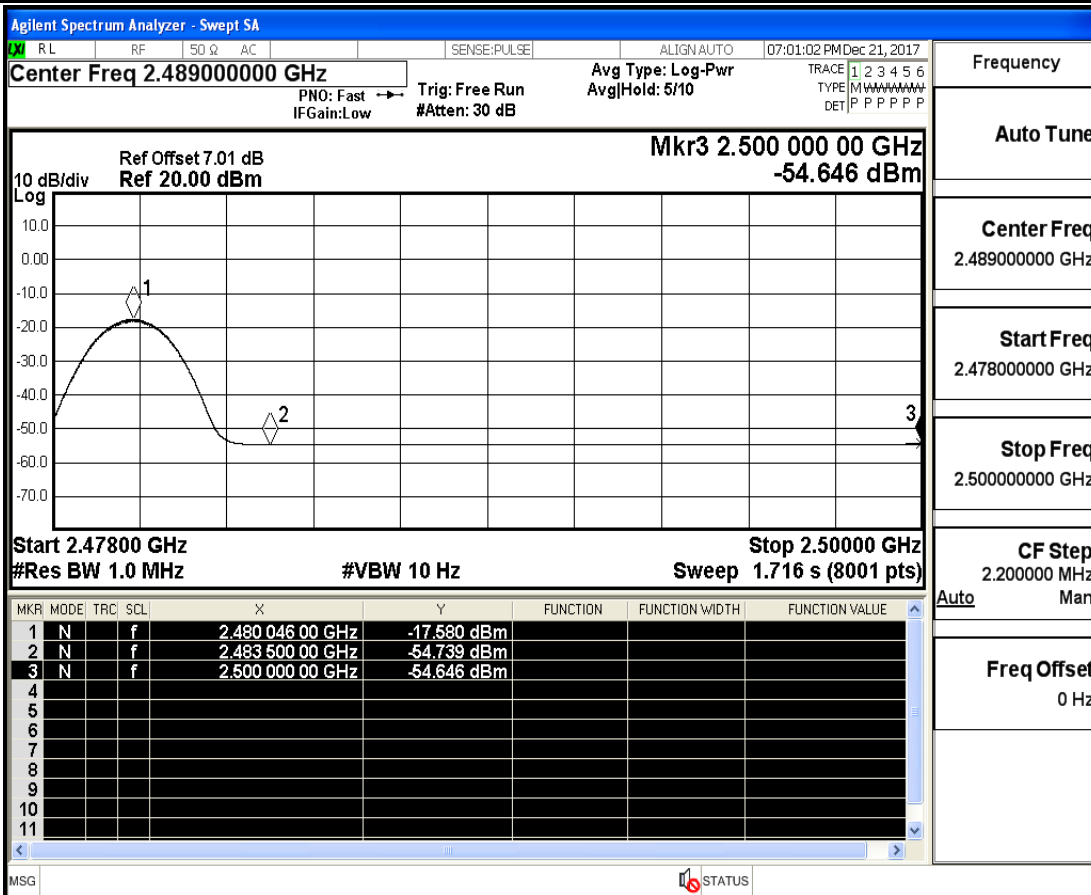
Frequency	
Auto Tune	
Center Freq	2.357000000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.404000000 GHz
CF Step	9.400000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_PEAK



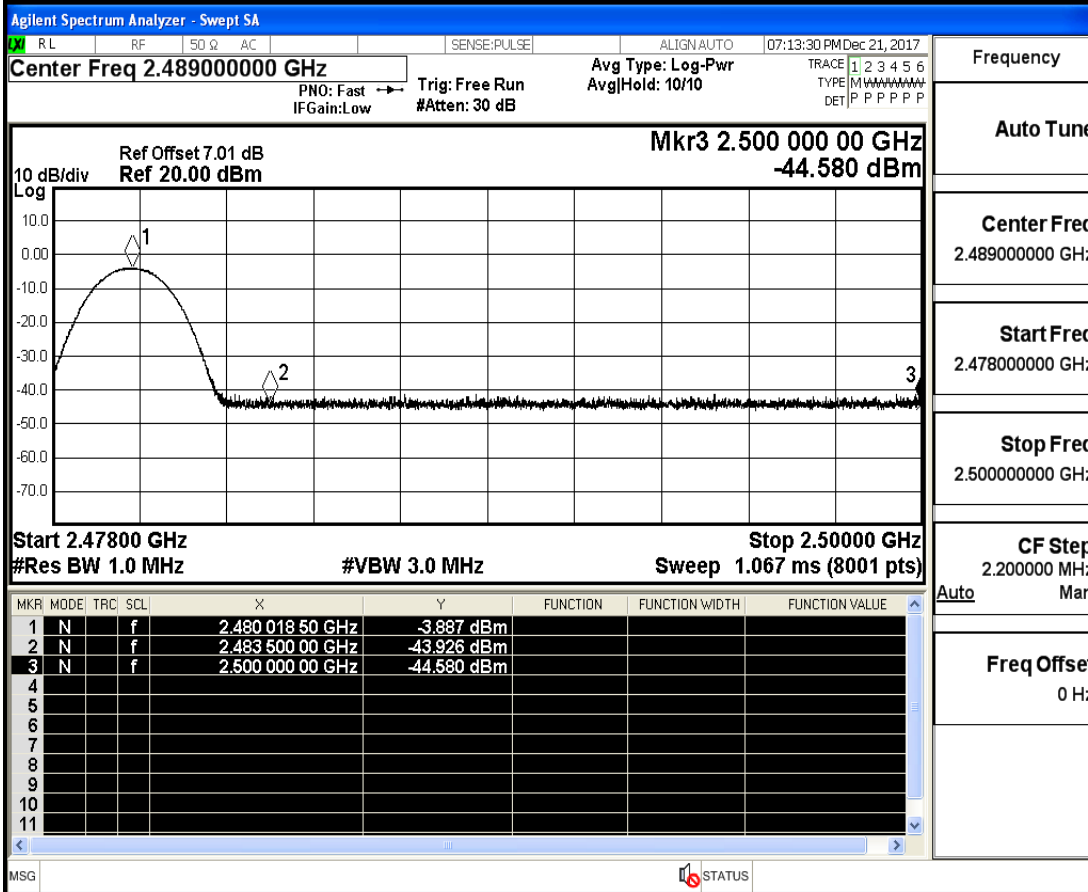
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_AV



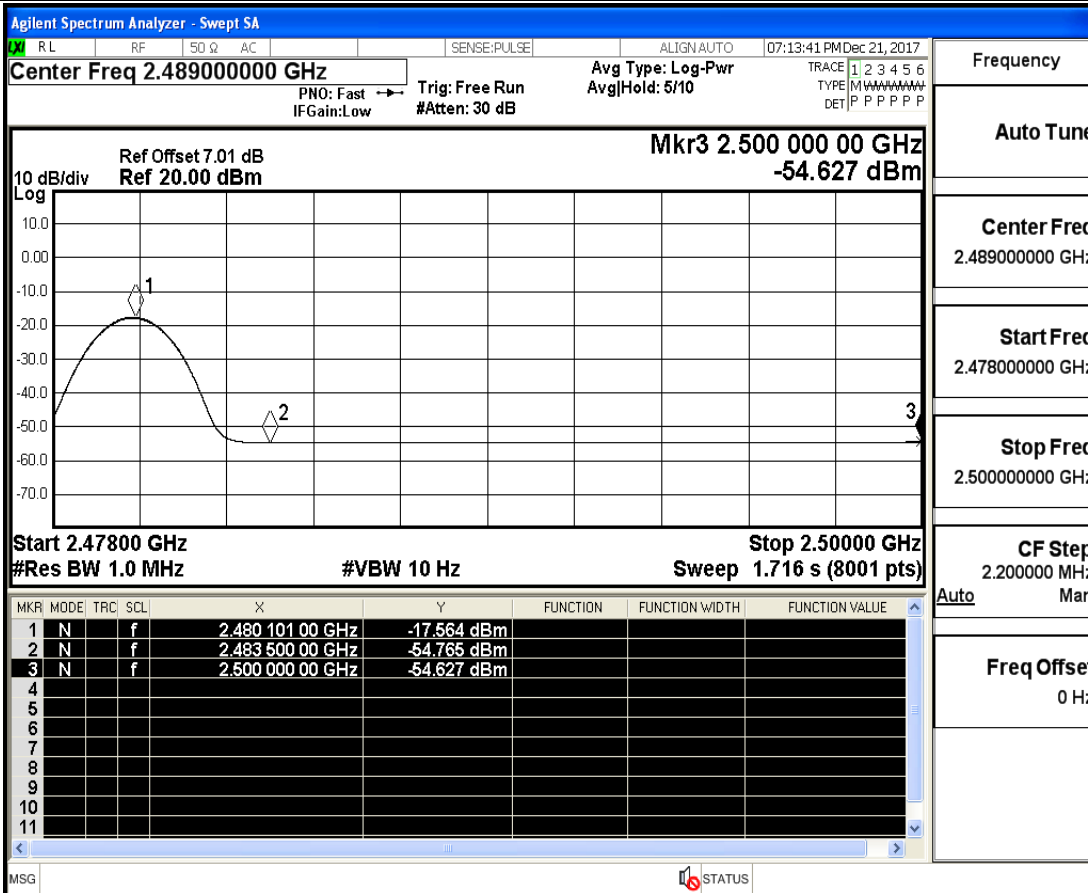
Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Restrict-band band-edge measurements_2480_PEAK



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

Restrict-band band-edge measurements_2480_AV



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