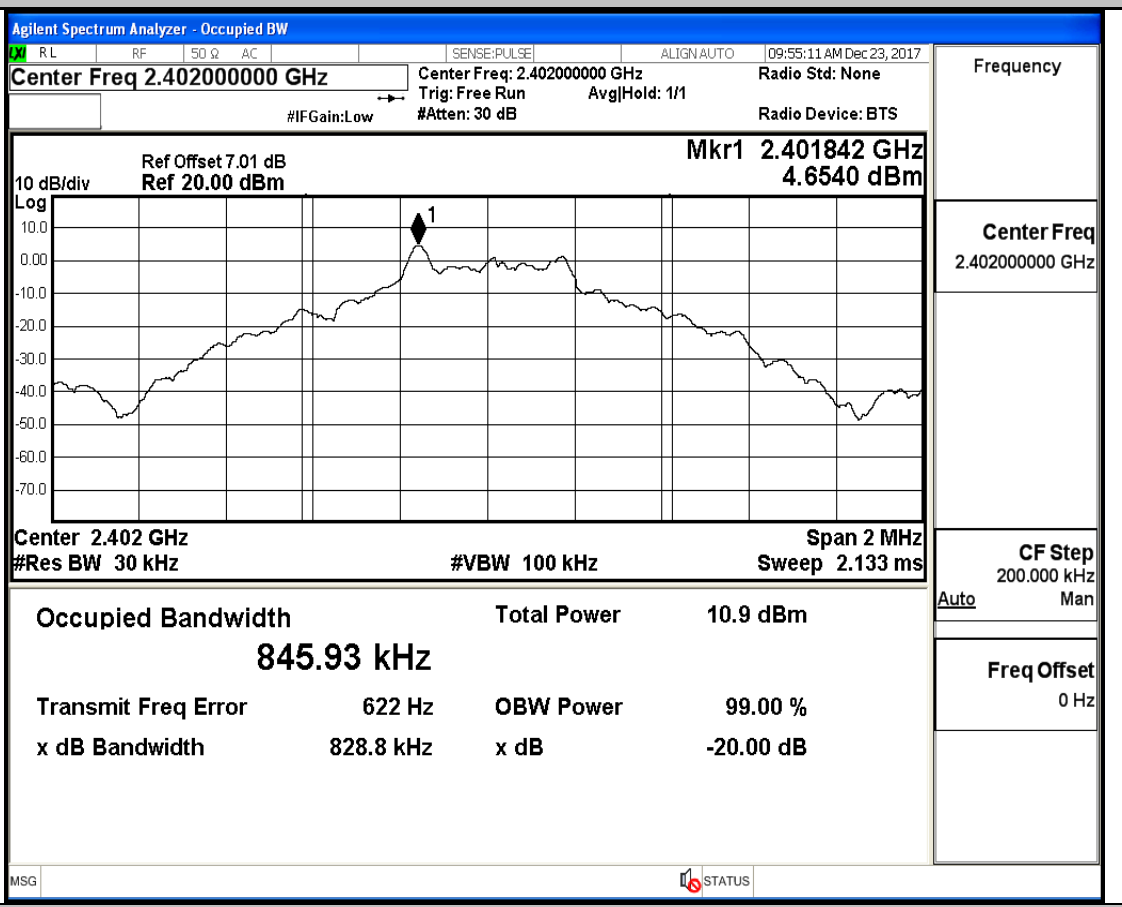
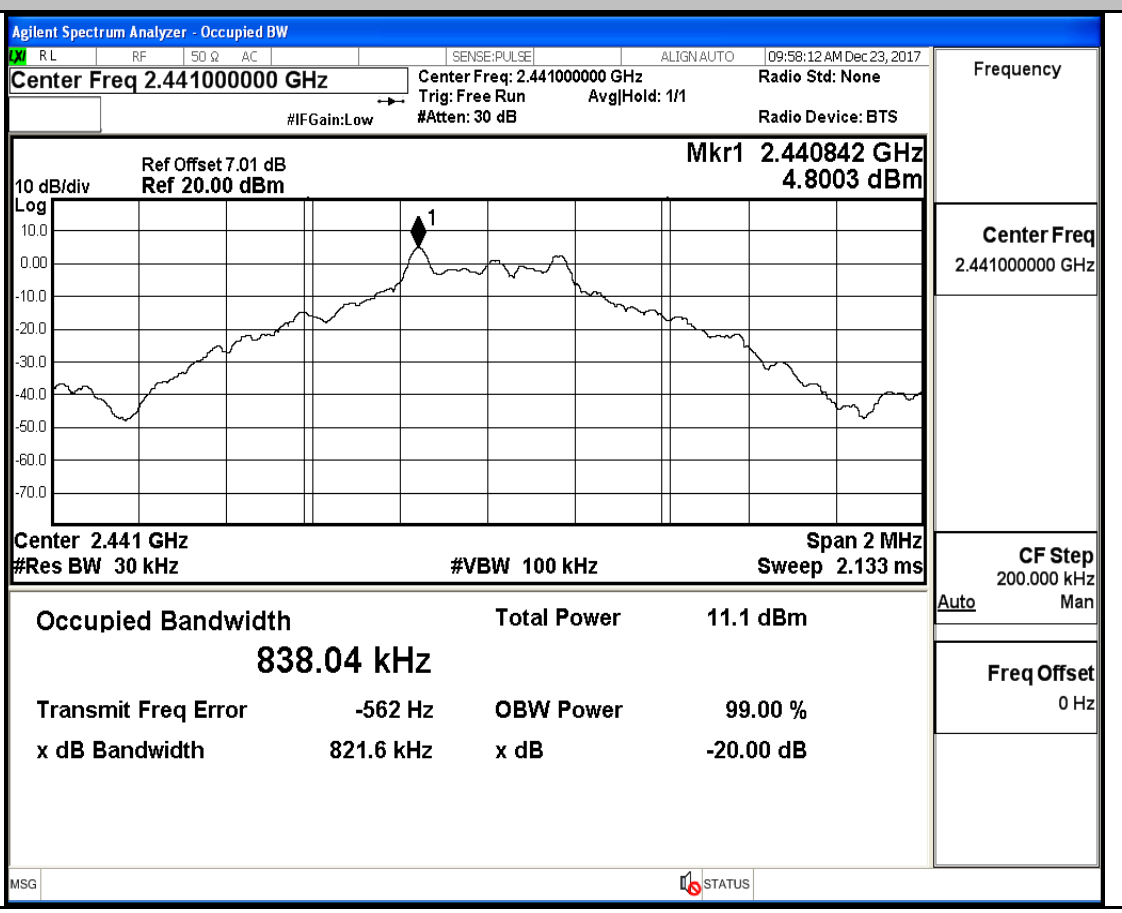
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.8288	---	PASS
DH5	2441	0.8216	---	PASS
DH5	2480	0.8296	---	PASS
2DH5	2402	1.114	---	PASS
2DH5	2441	1.112	---	PASS
2DH5	2480	1.123	---	PASS
3DH5	2402	1.127	---	PASS
3DH5	2441	1.142	---	PASS
3DH5	2480	1.141	---	PASS

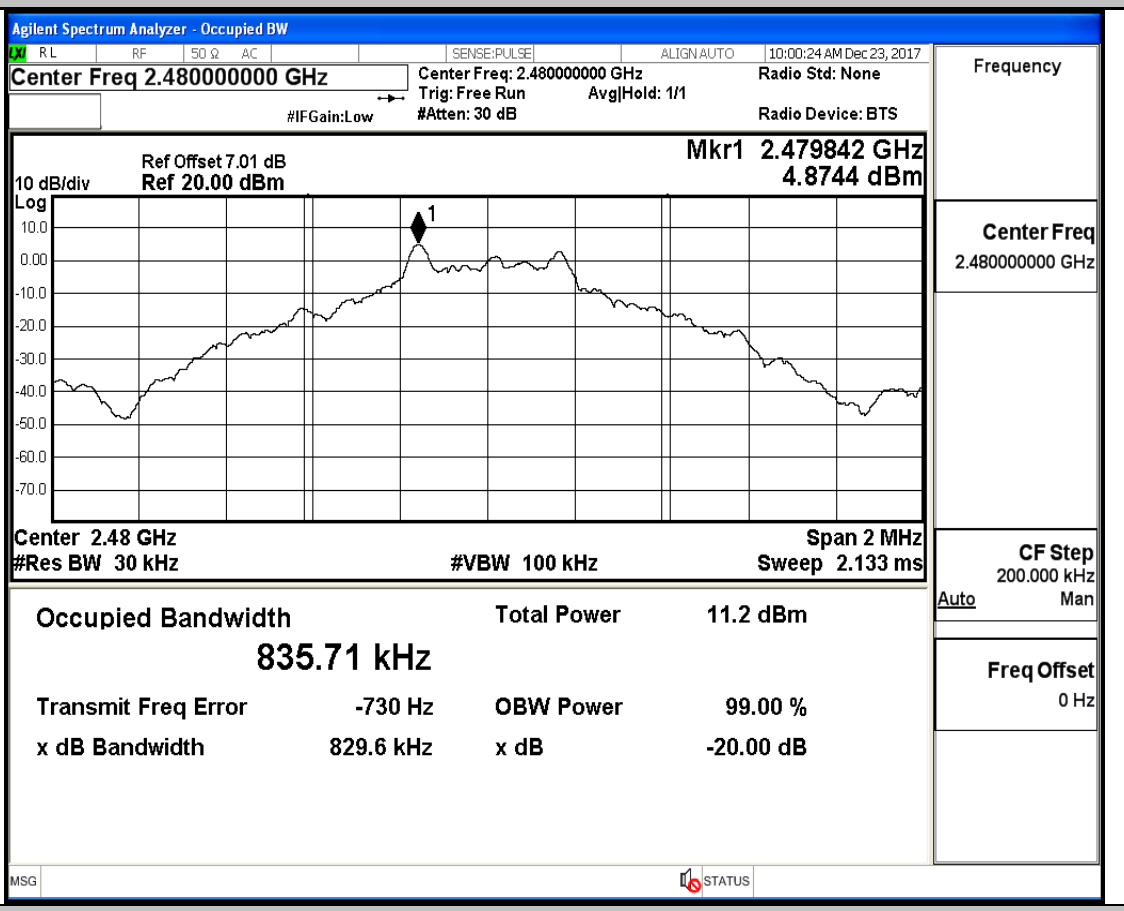
20 dB Bandwidth_DH5_2402



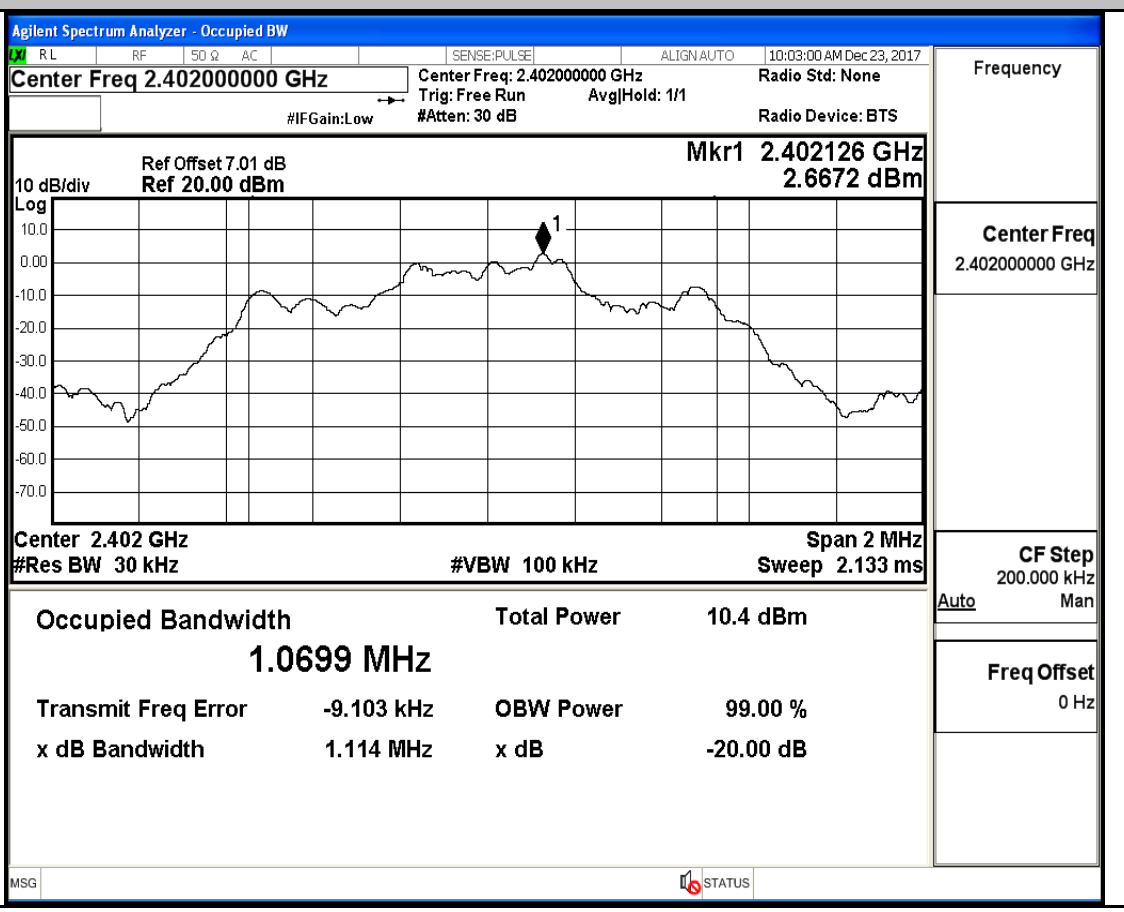
20 dB Bandwidth_DH5_2441



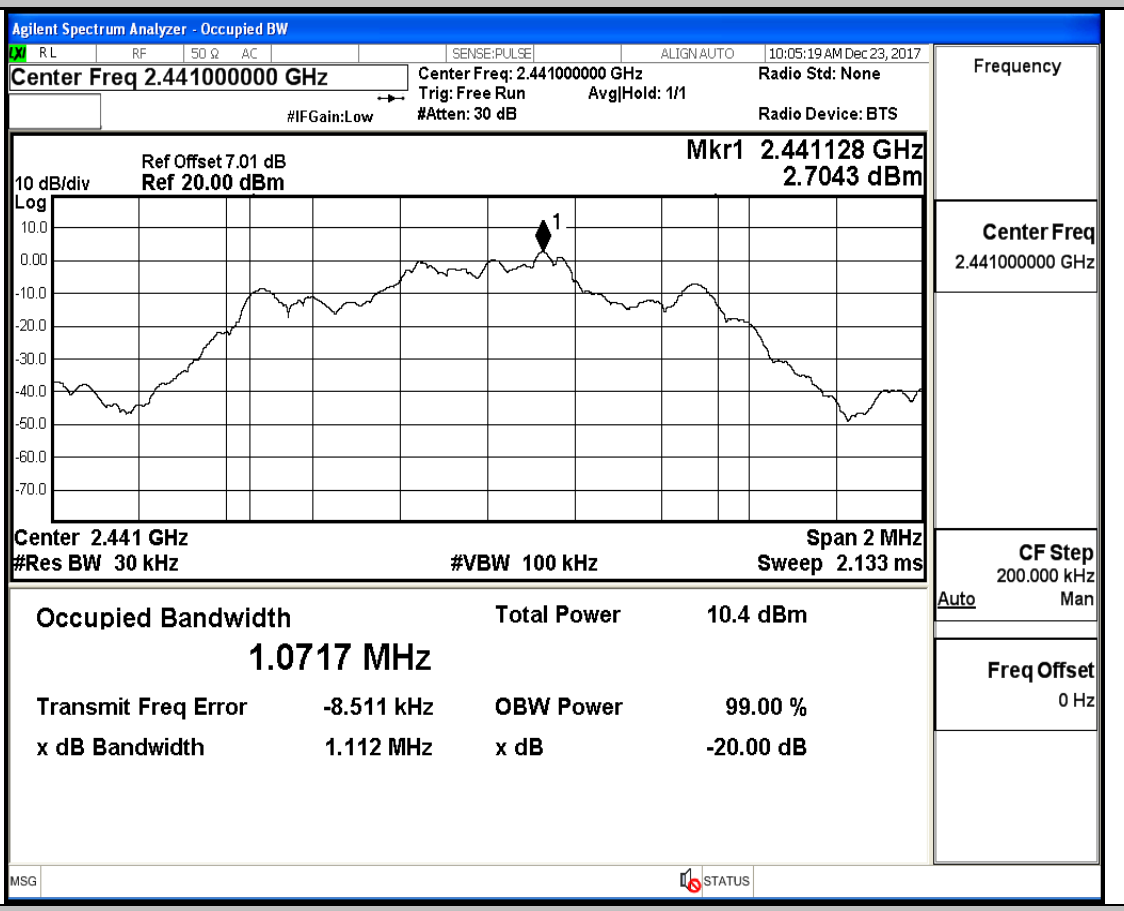
20 dB Bandwidth_DH5_2480



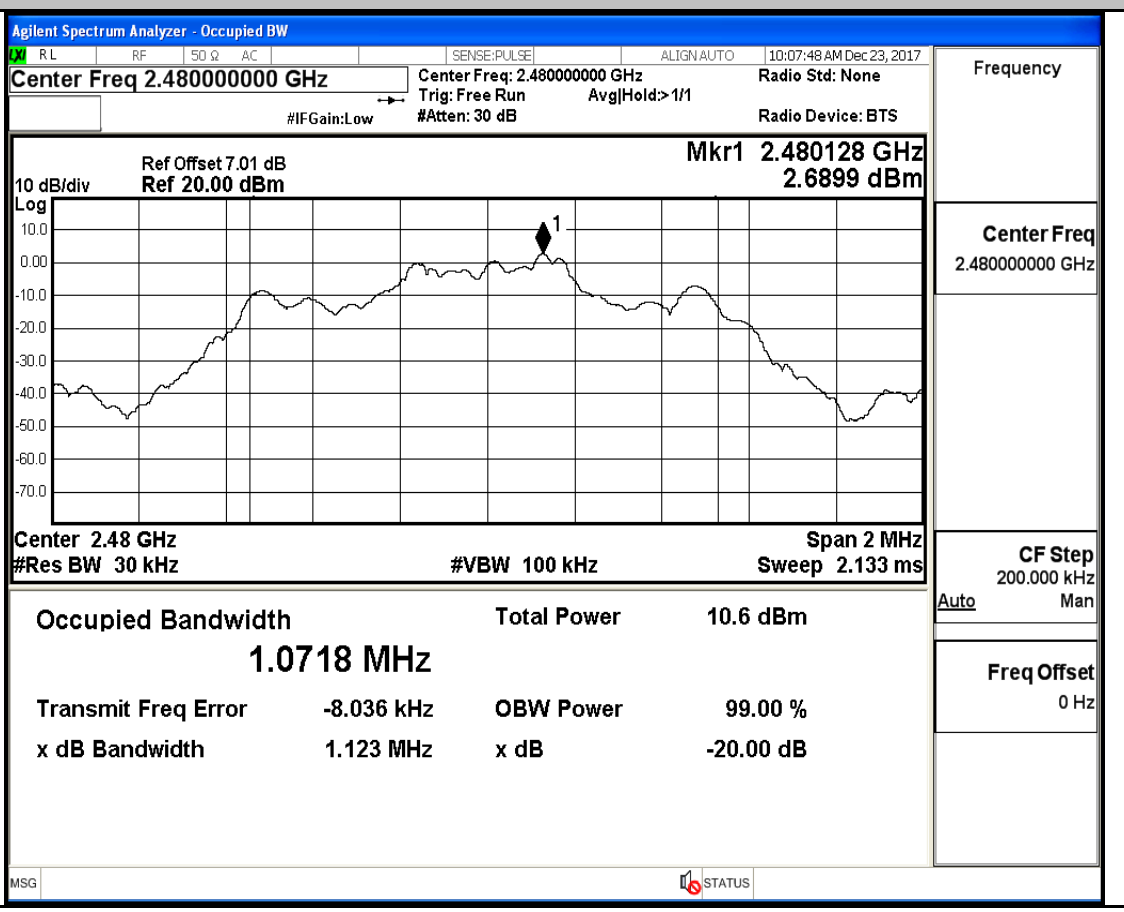
20 dB Bandwidth_2DH5_2402



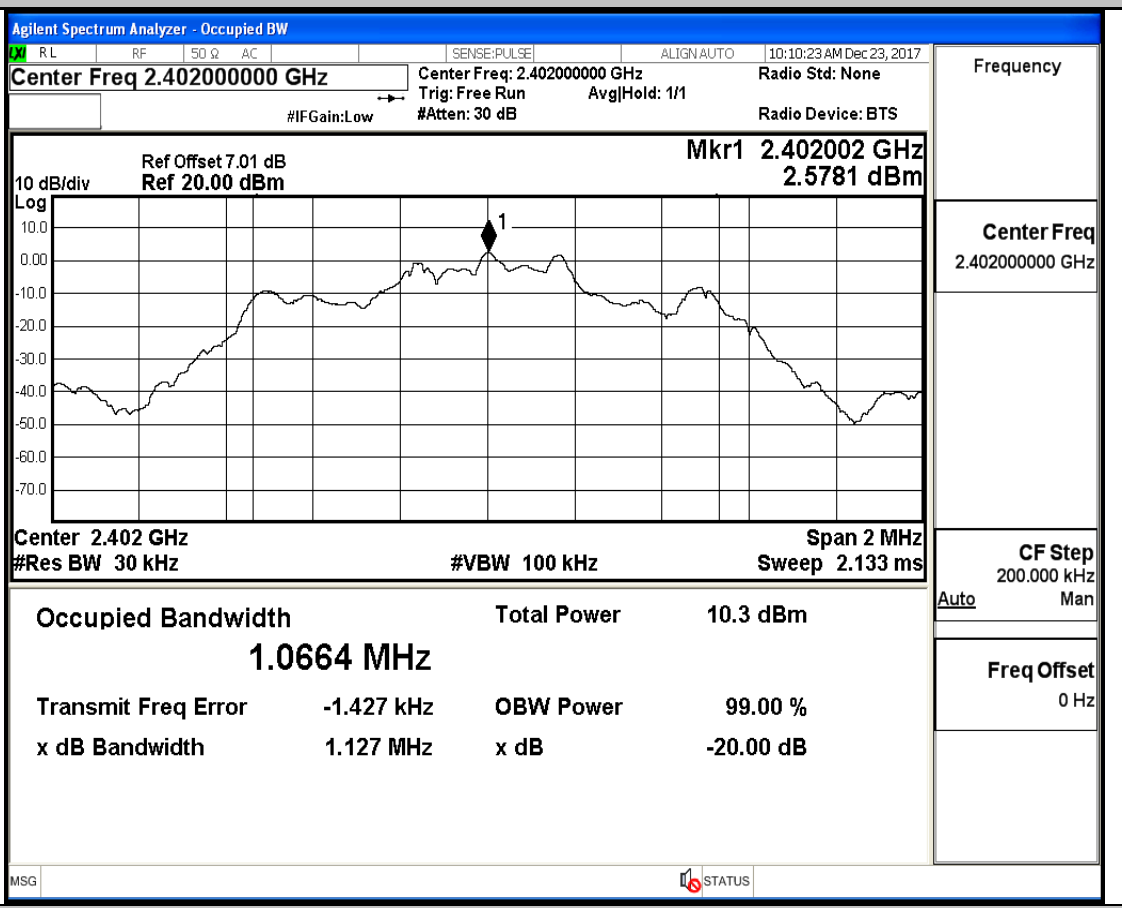
20 dB Bandwidth_2DH5_2441



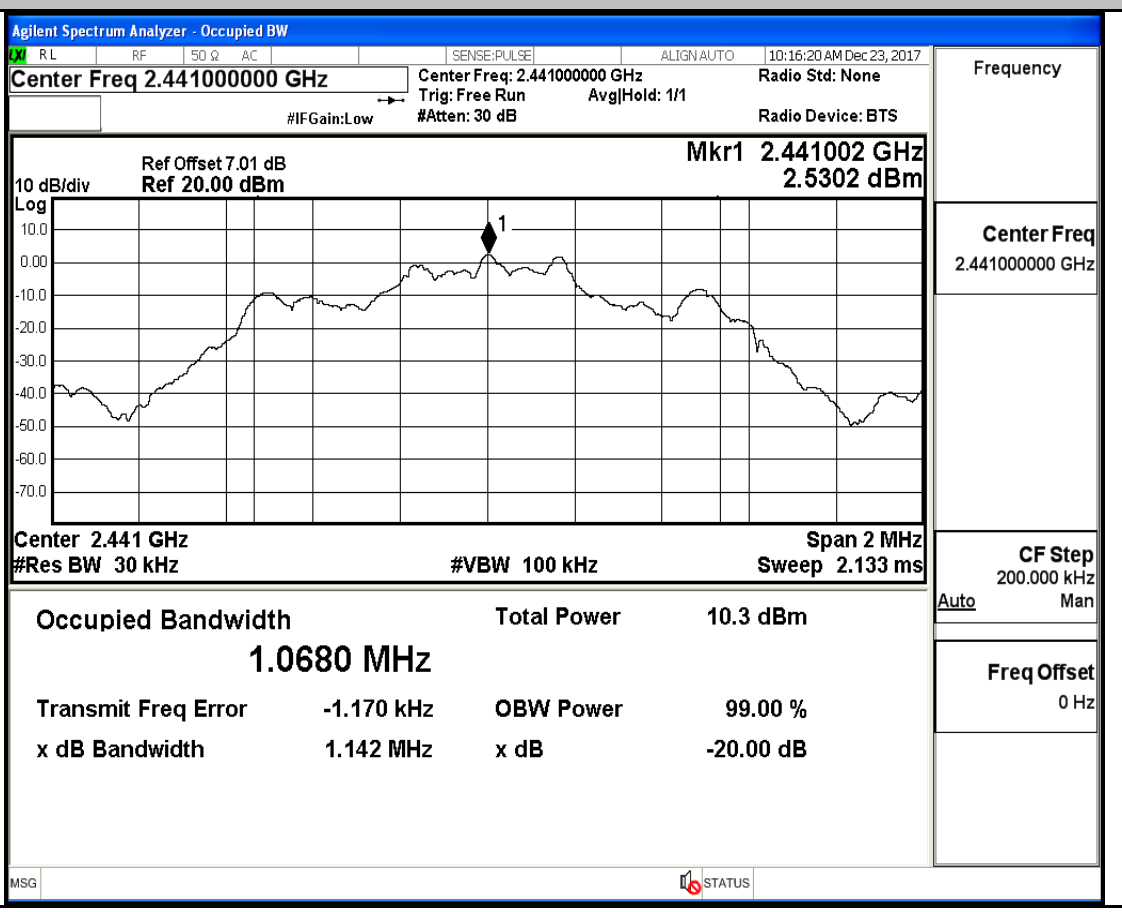
20 dB Bandwidth_2DH5_2480



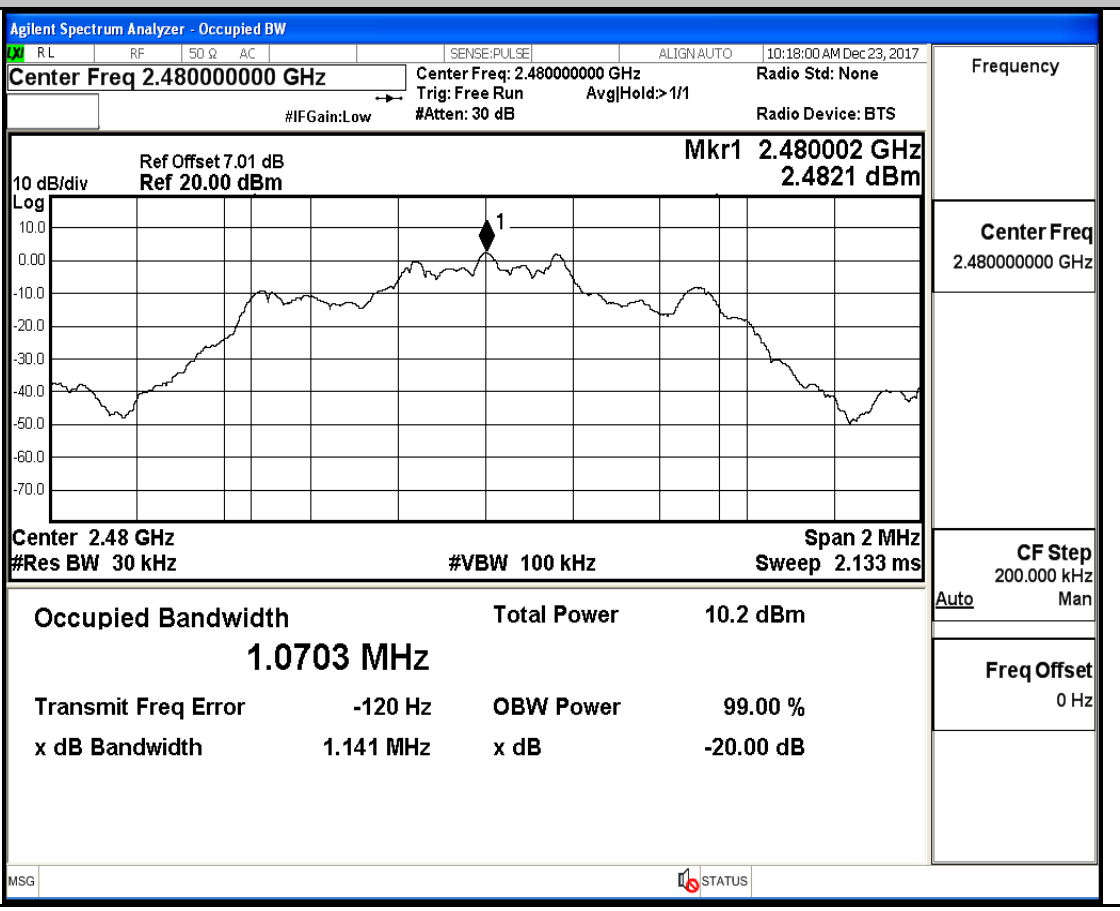
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



20 dB Bandwidth_3DH5_2480



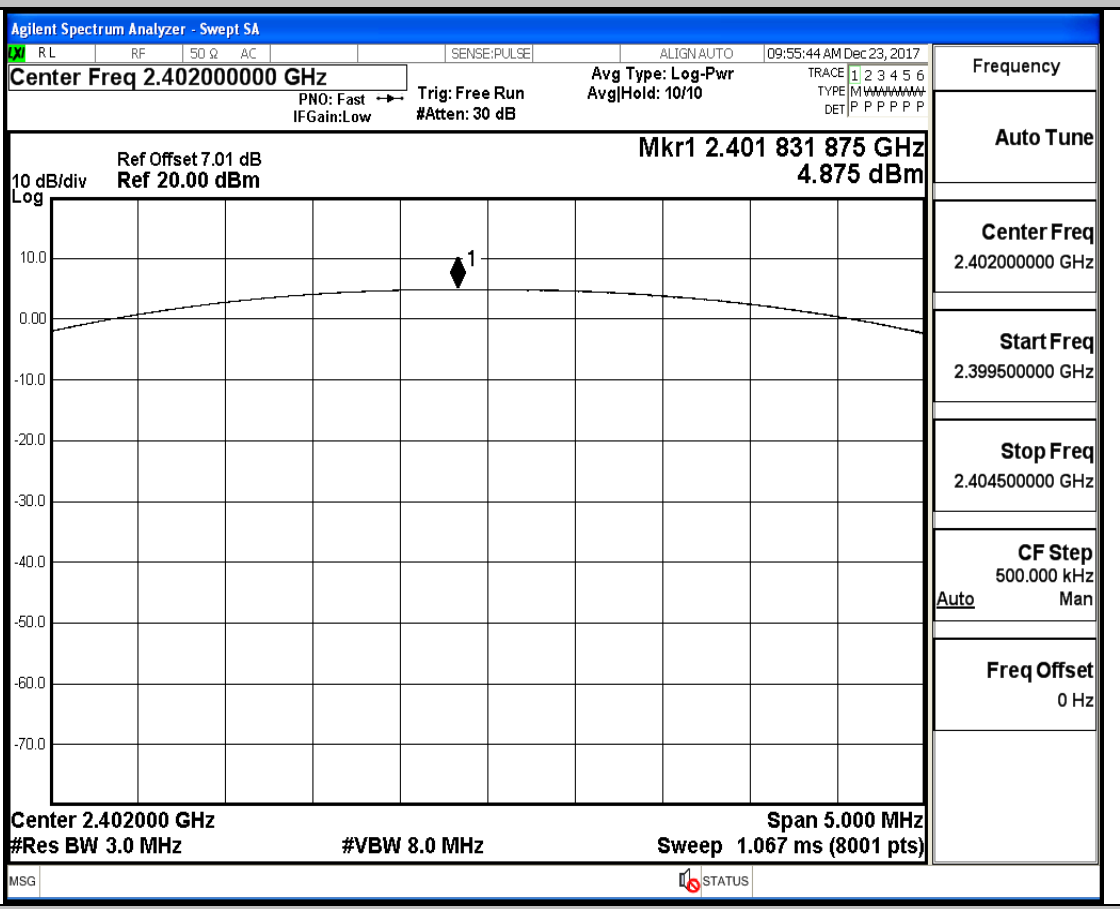
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict

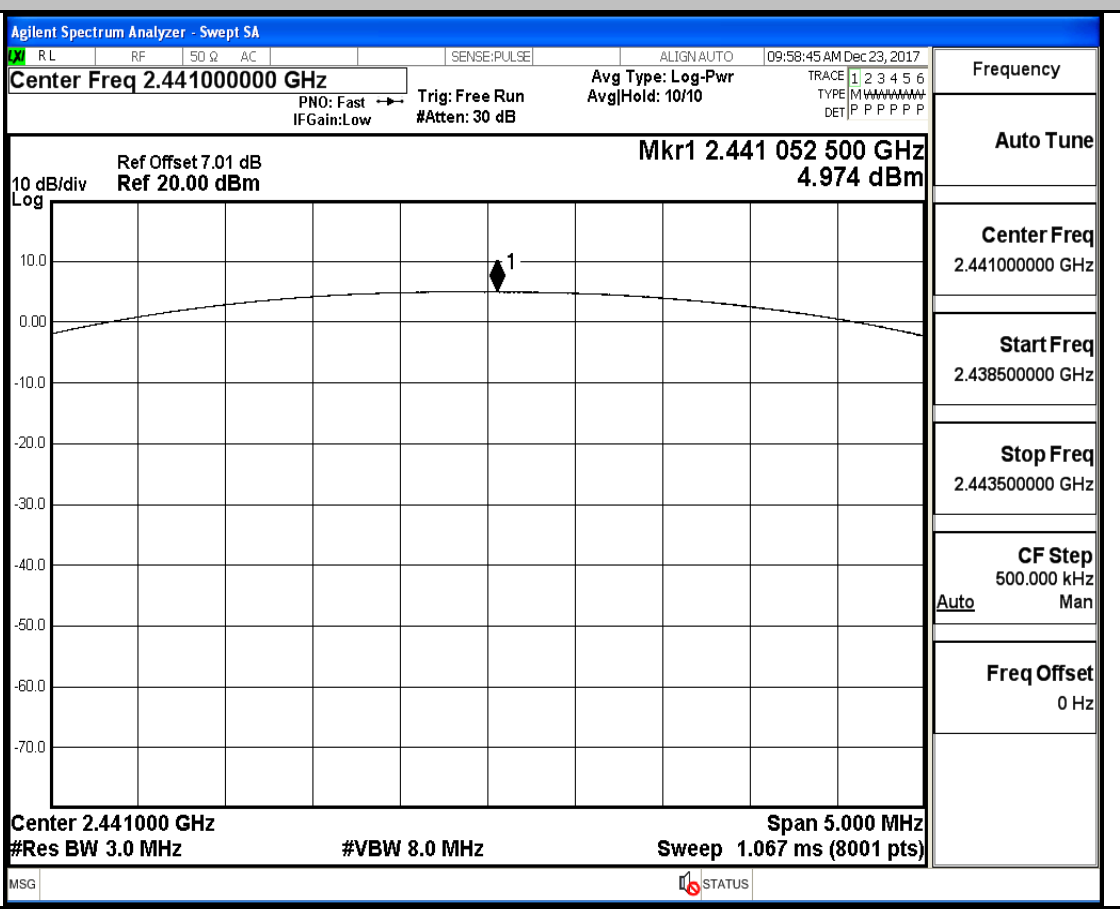
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	4.875	30	PASS
DH5	2441	4.974	30	PASS
DH5	2480	5.058	30	PASS
2DH5	2402	4.392	30	PASS
2DH5	2441	4.531	30	PASS
2DH5	2480	4.61	30	PASS
3DH5	2402	4.403	30	PASS
3DH5	2441	4.472	30	PASS
3DH5	2480	4.496	30	PASS

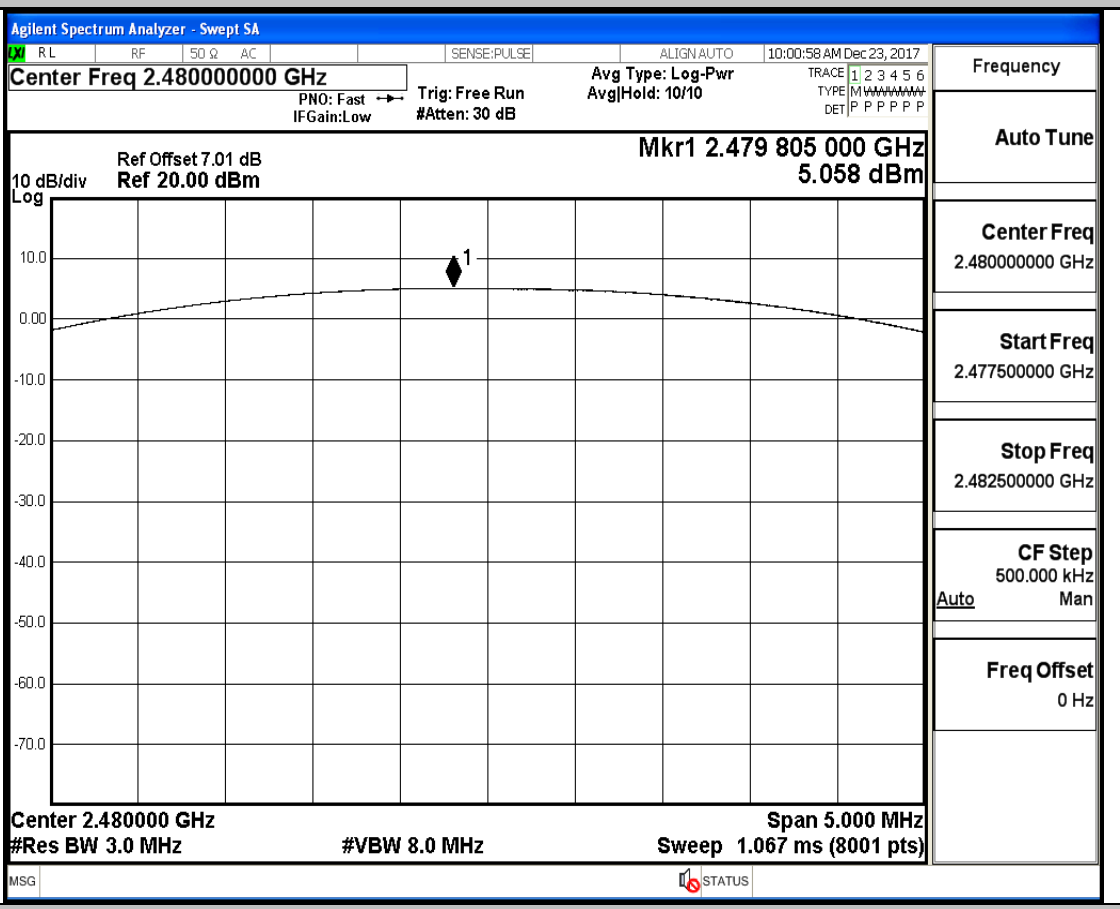
Conducted Peak Output Power_DH5_2402



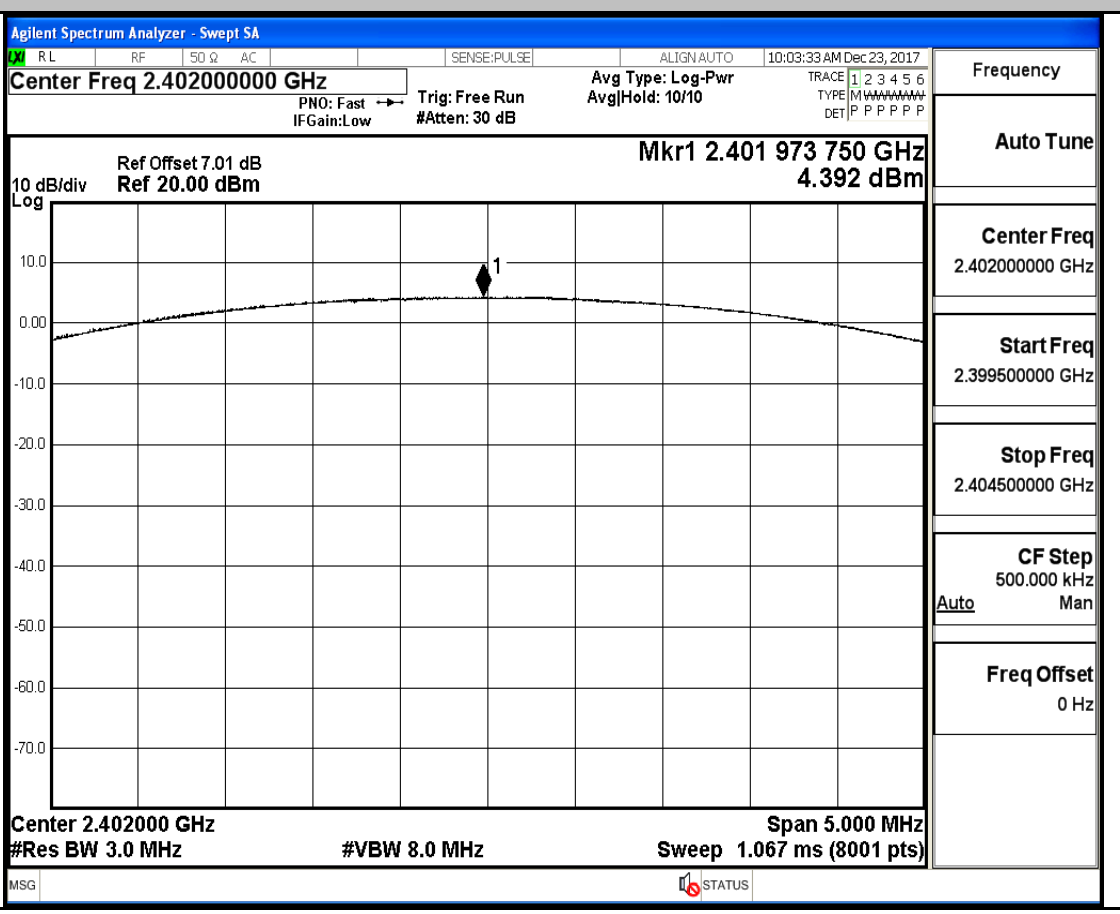
Conducted Peak Output Power_DH5_2441



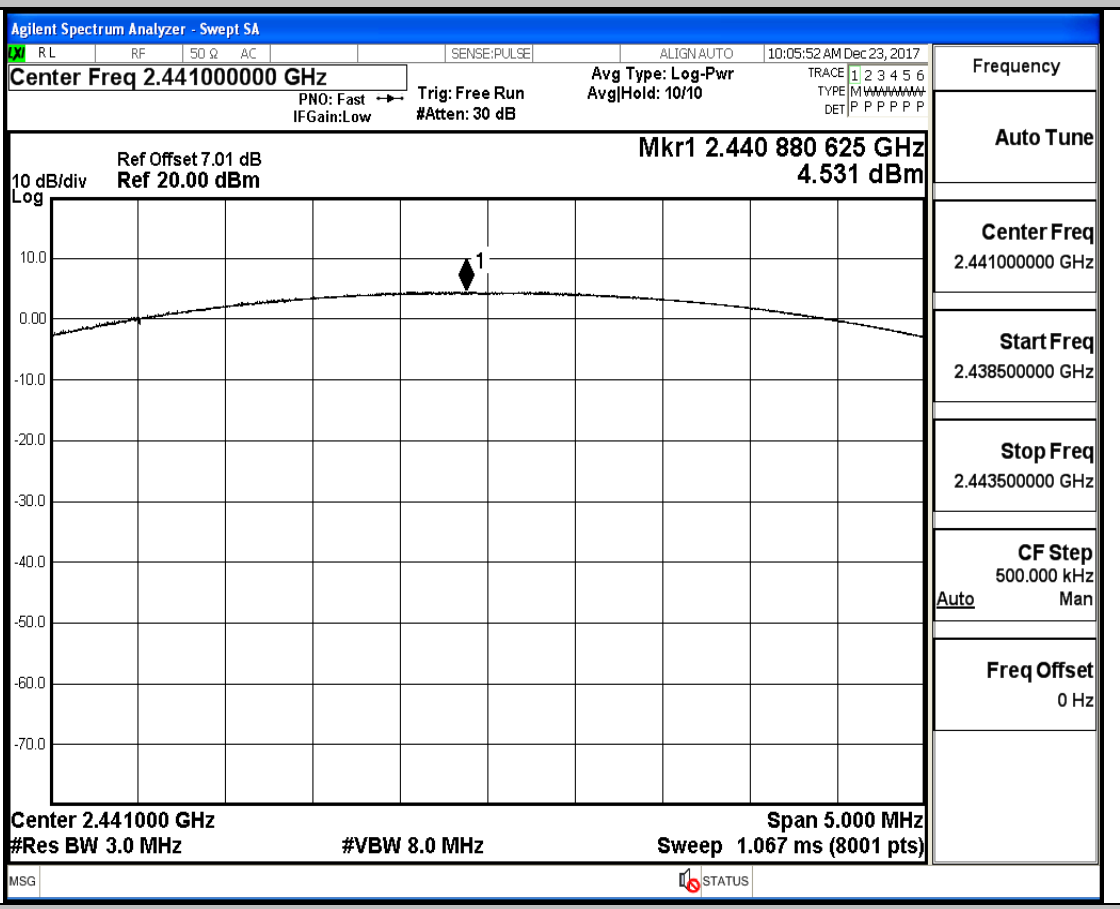
Conducted Peak Output Power_DH5_2480



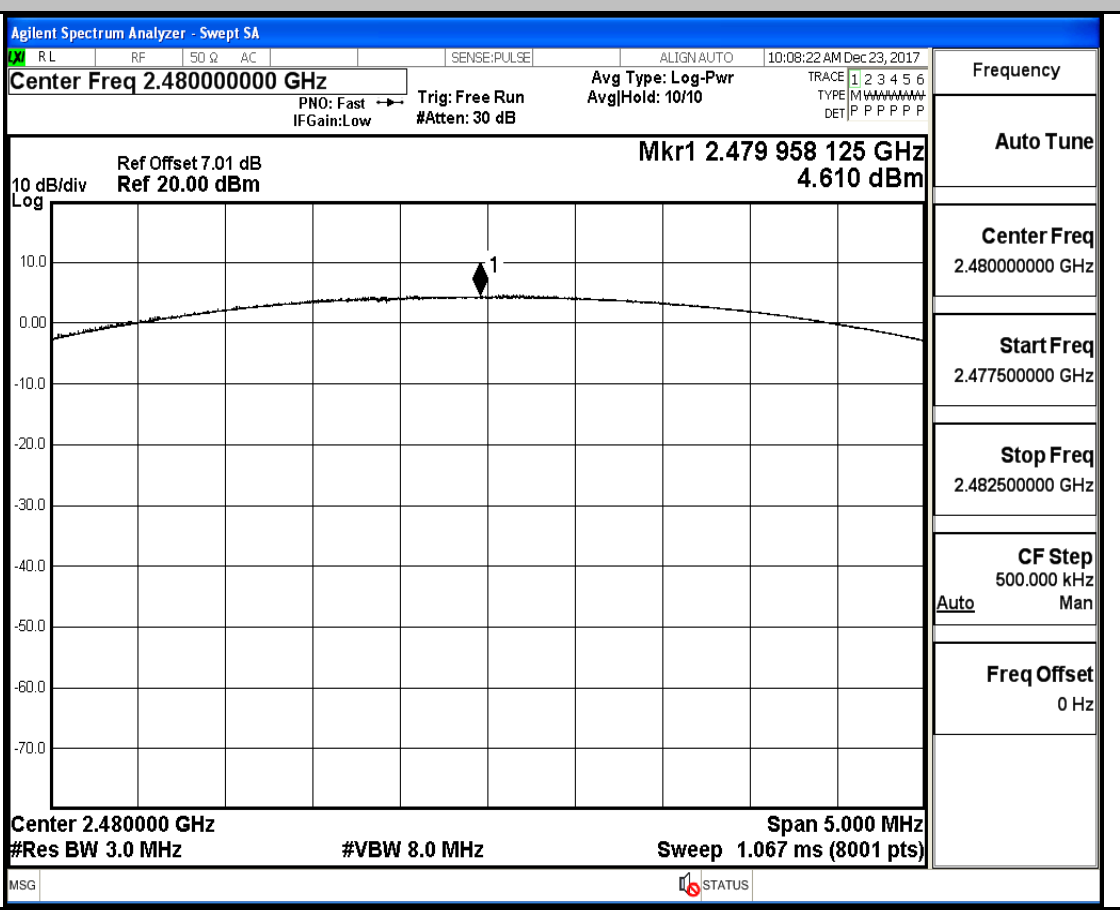
Conducted Peak Output Power_2DH5_2402



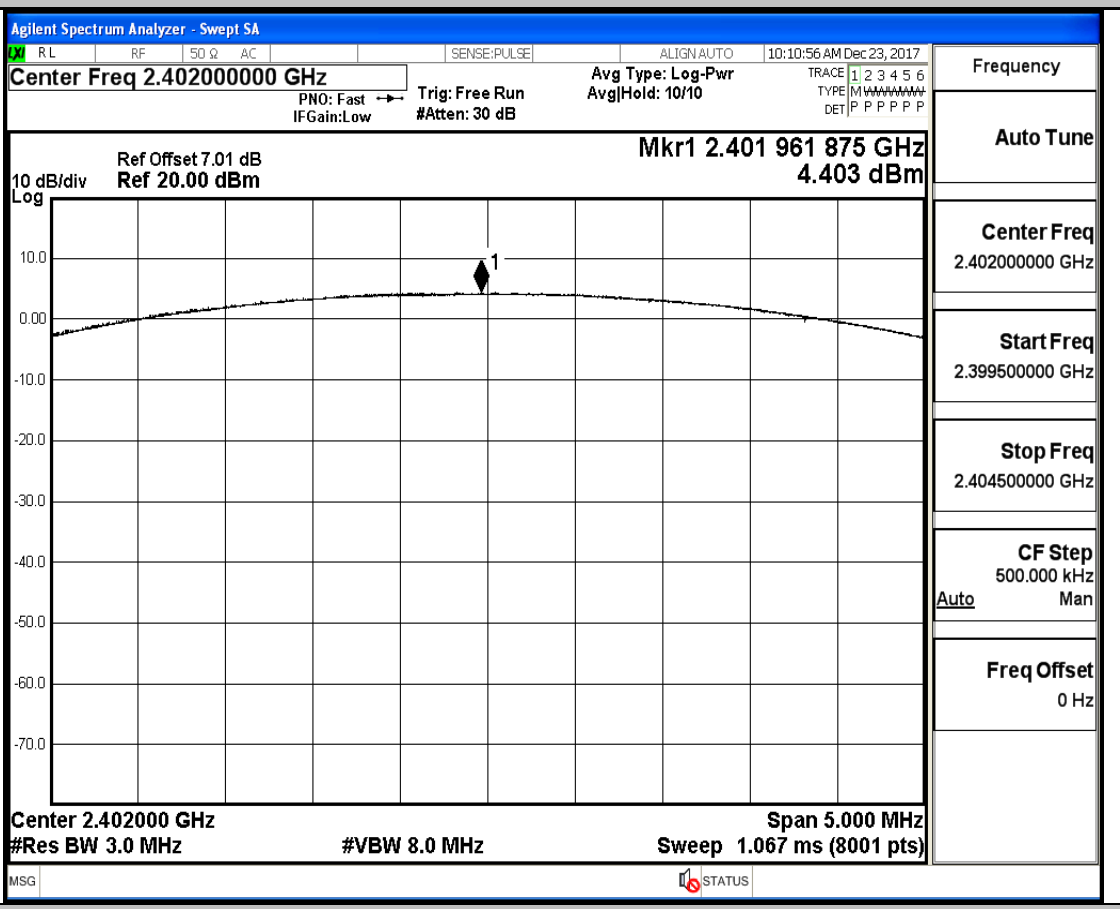
Conducted Peak Output Power_2DH5_2441



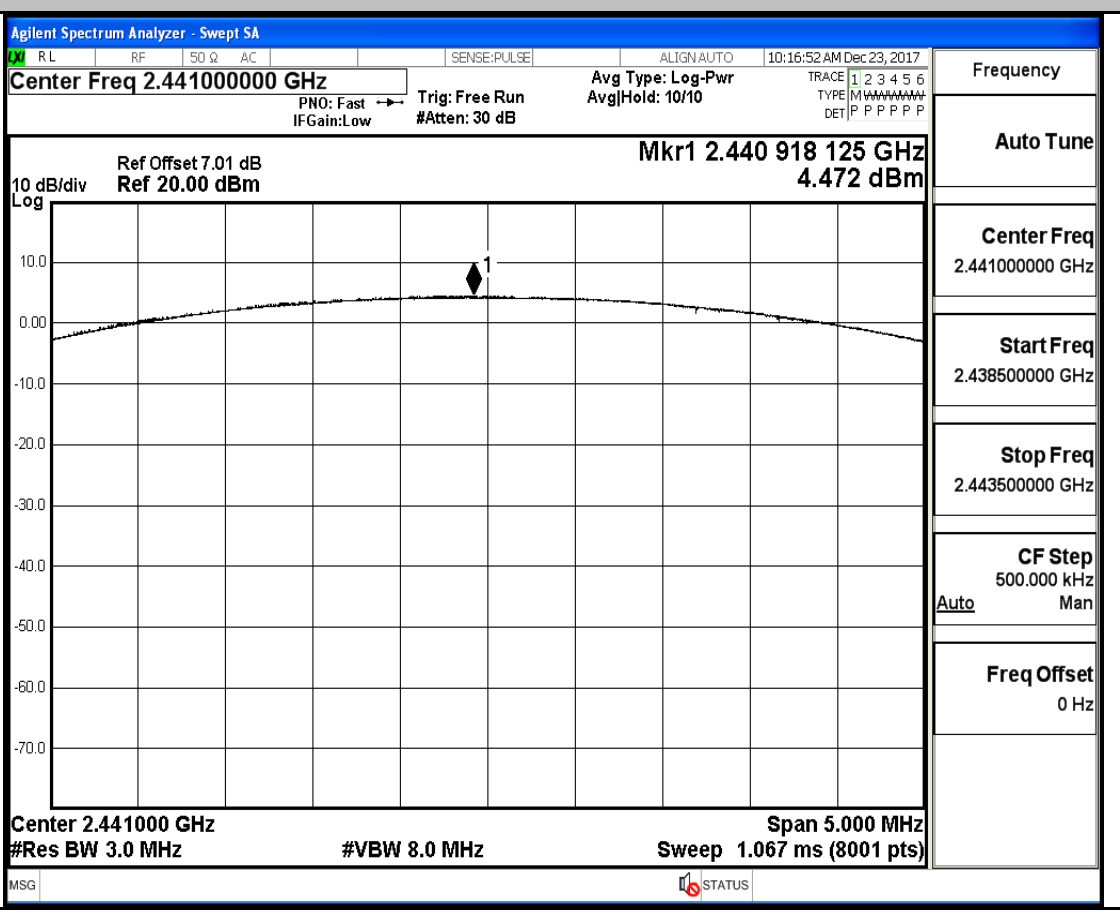
Conducted Peak Output Power_2DH5_2480



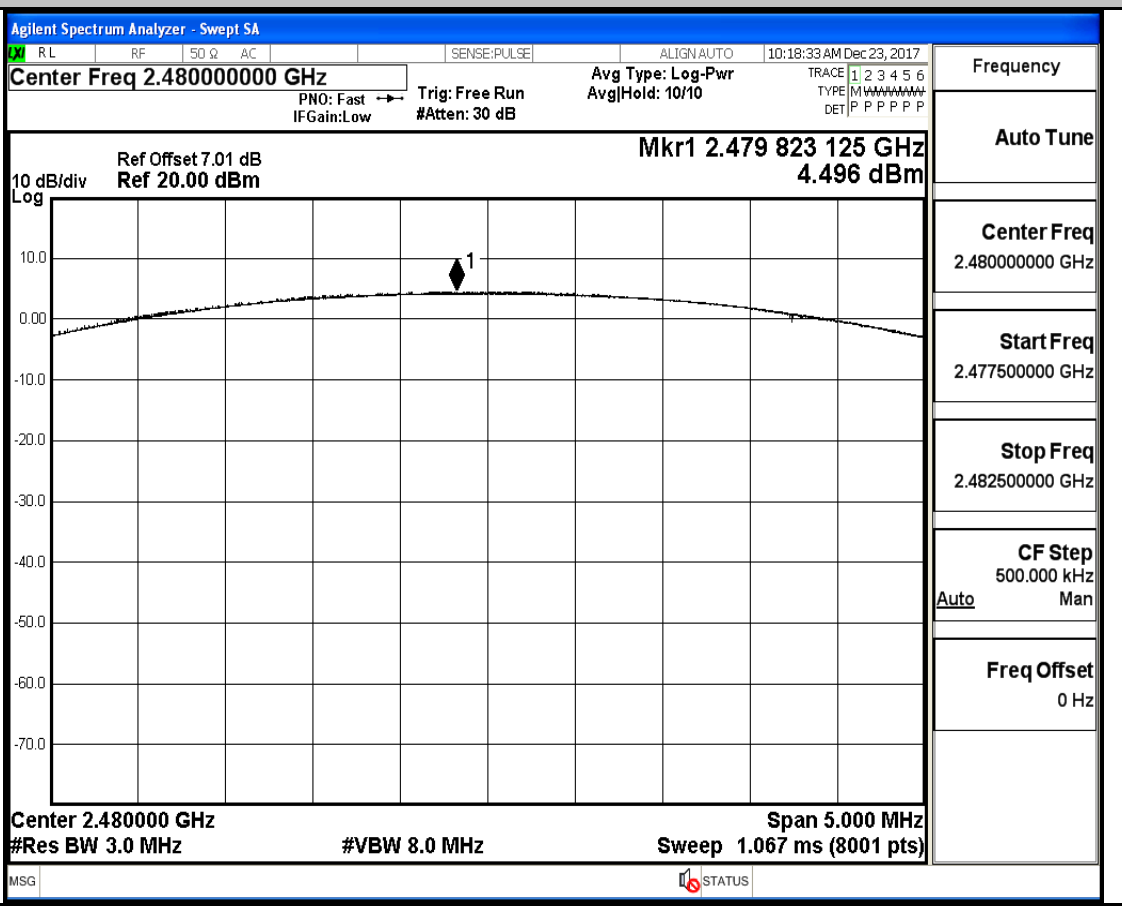
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



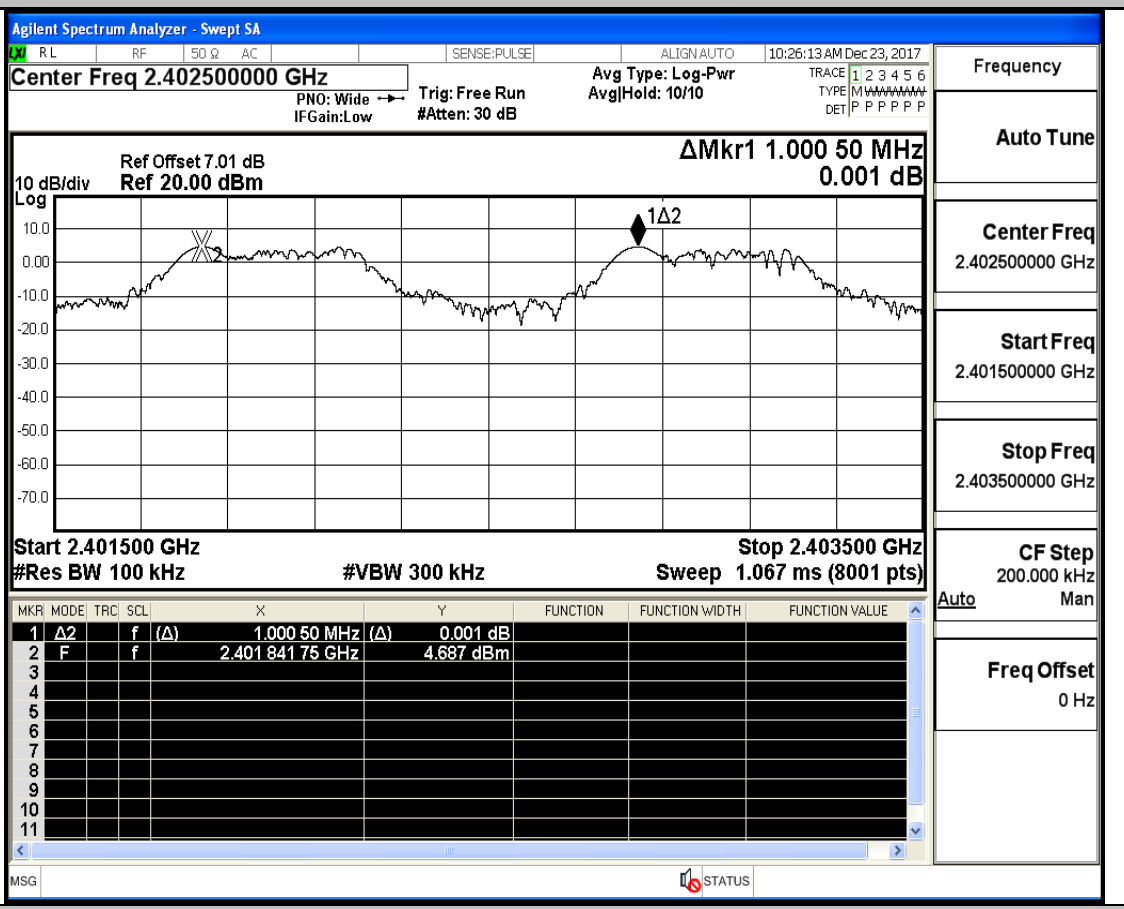
Conducted Peak Output Power_3DH5_2480



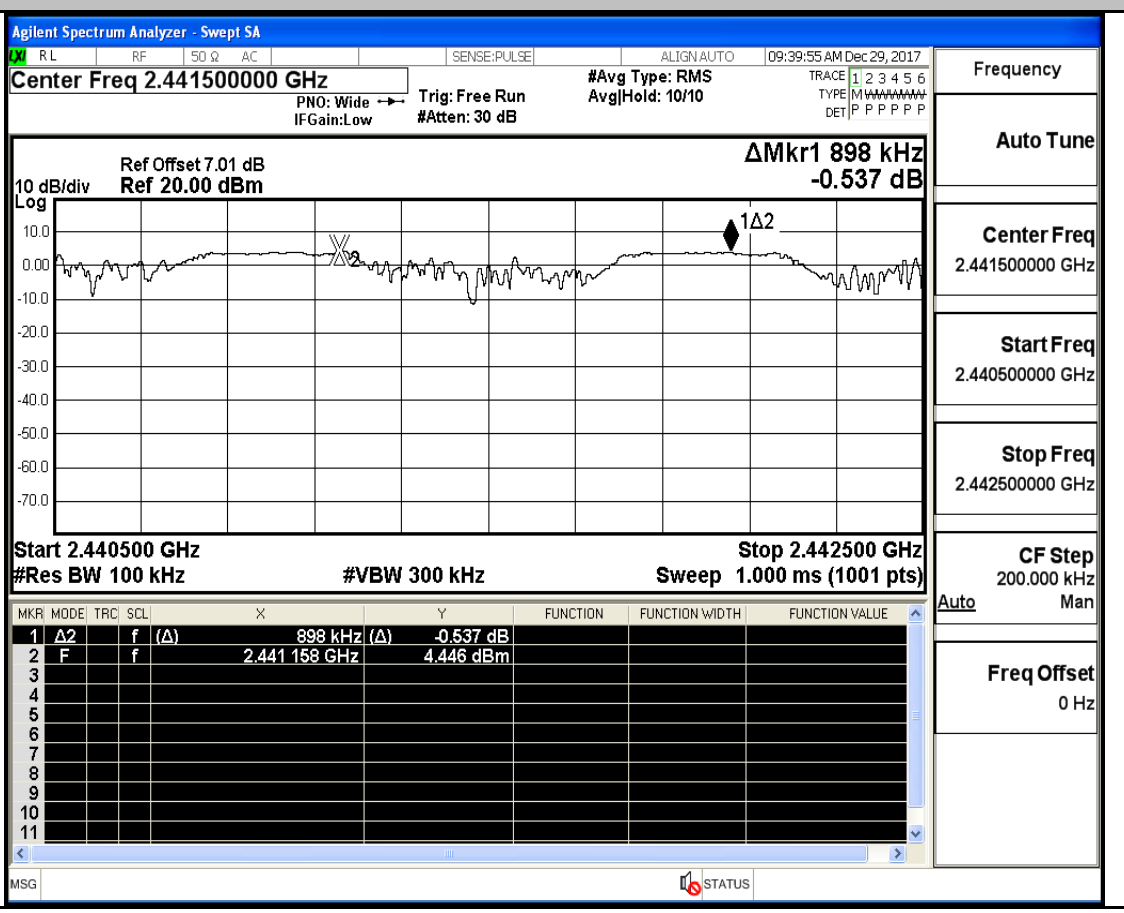
4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.001	0.55	PASS
DH5	2441	0.898	0.55	PASS
DH5	2480	0.884	0.55	PASS
2DH5	2402	0.998	0.74	PASS
2DH5	2441	0.99	0.74	PASS
2DH5	2480	0.988	0.75	PASS
3DH5	2402	0.998	0.75	PASS
3DH5	2441	0.992	0.76	PASS
3DH5	2480	0.978	0.76	PASS

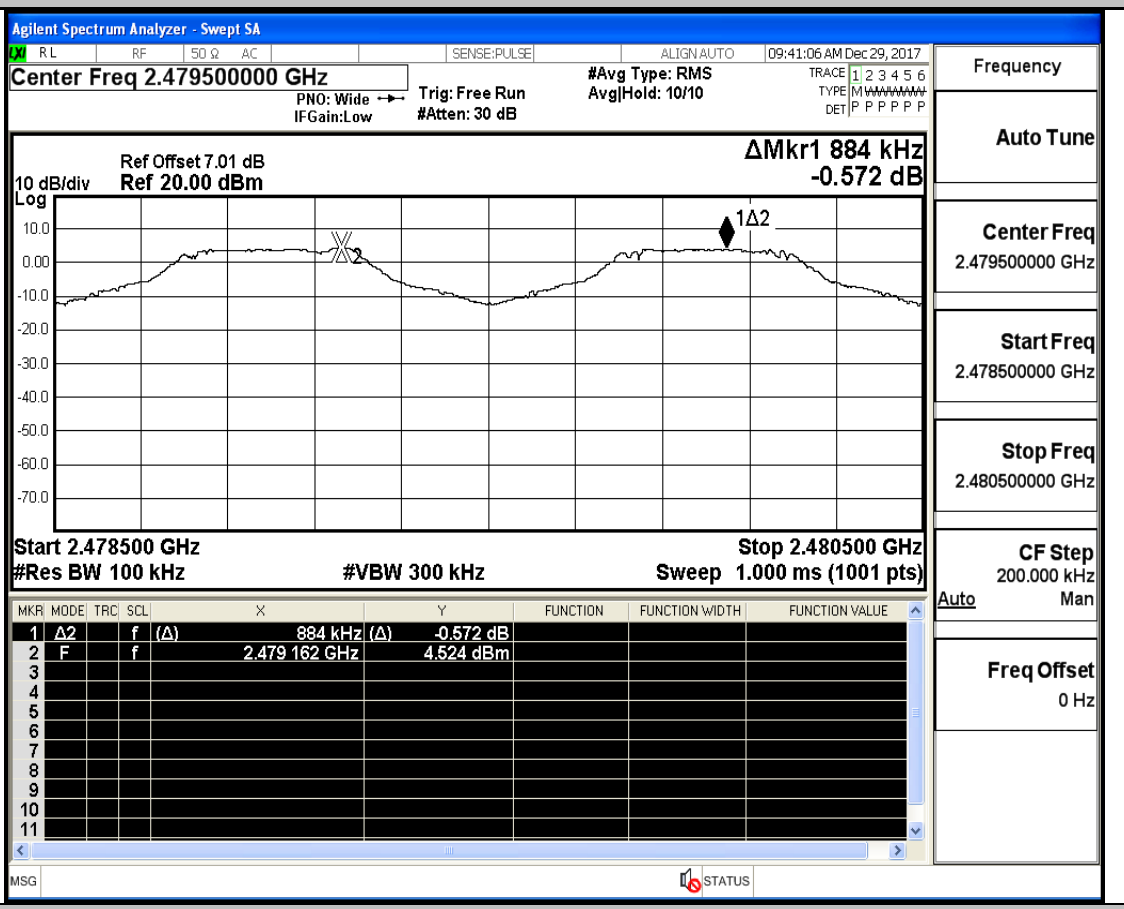
Carrier Frequency Separation_DH5_2402



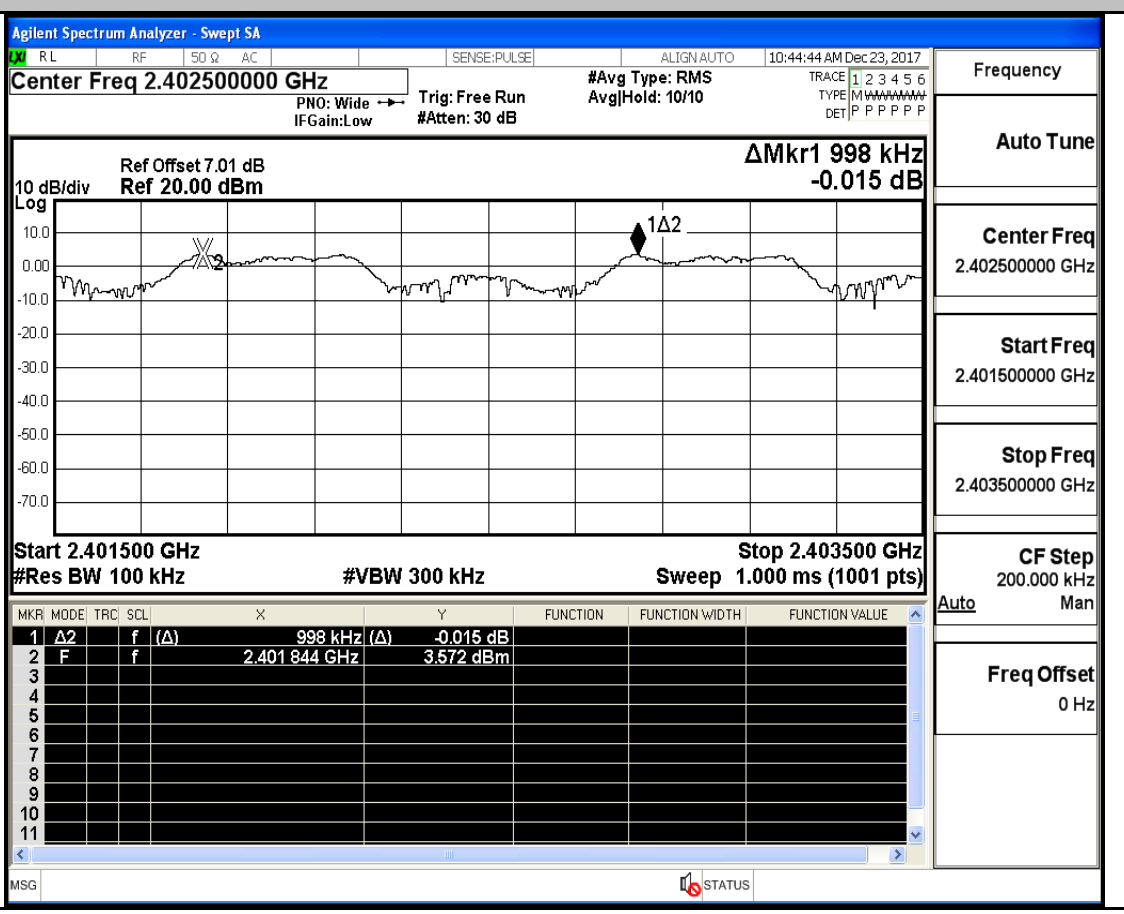
Carrier Frequency Separation_DH5_2441



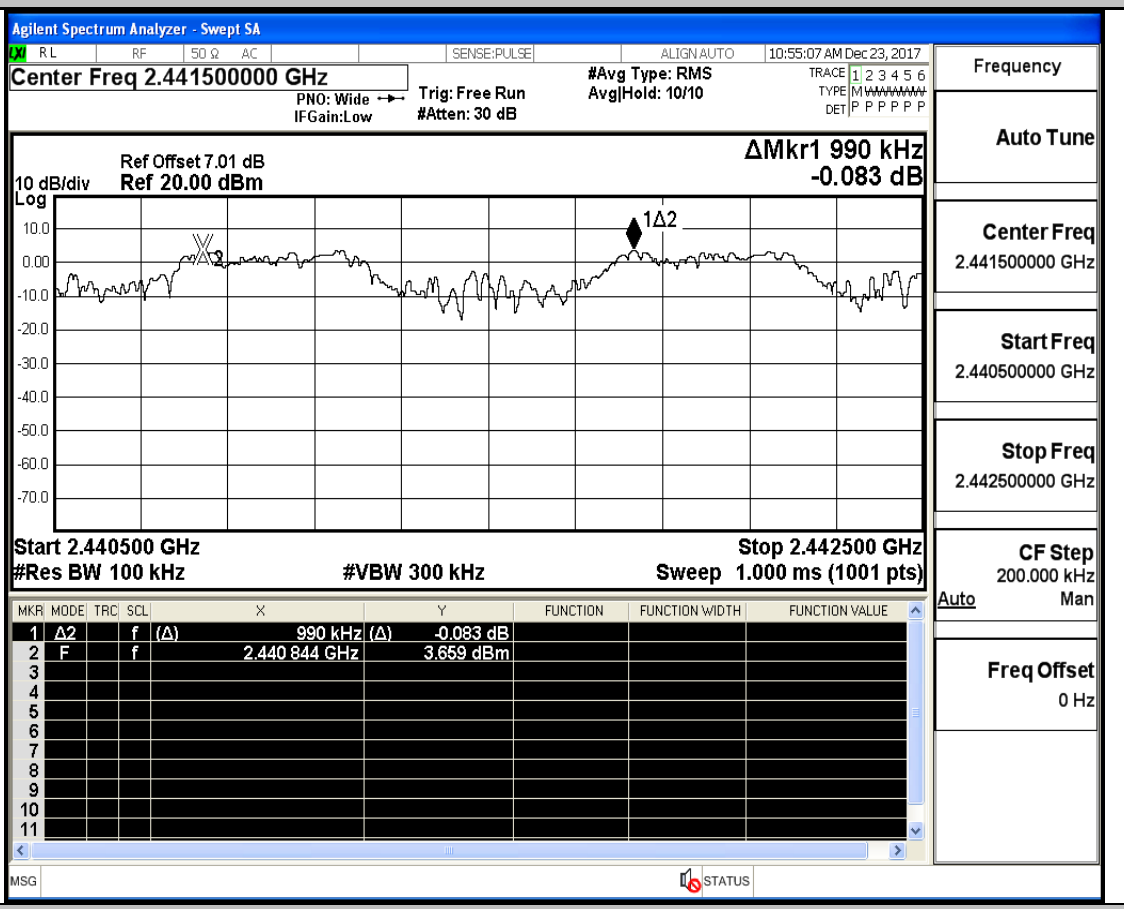
Carrier Frequency Separation_DH5_2480



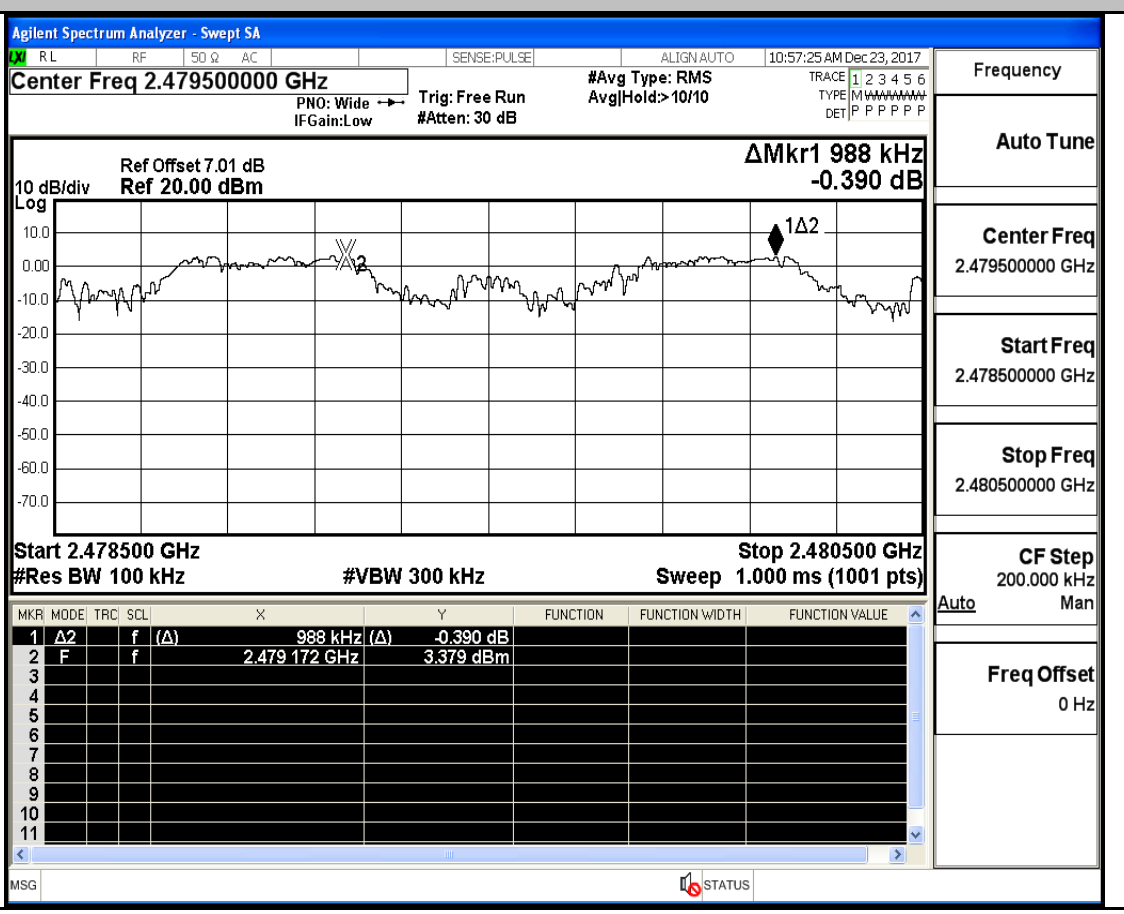
Carrier Frequency Separation_2DH5_2402



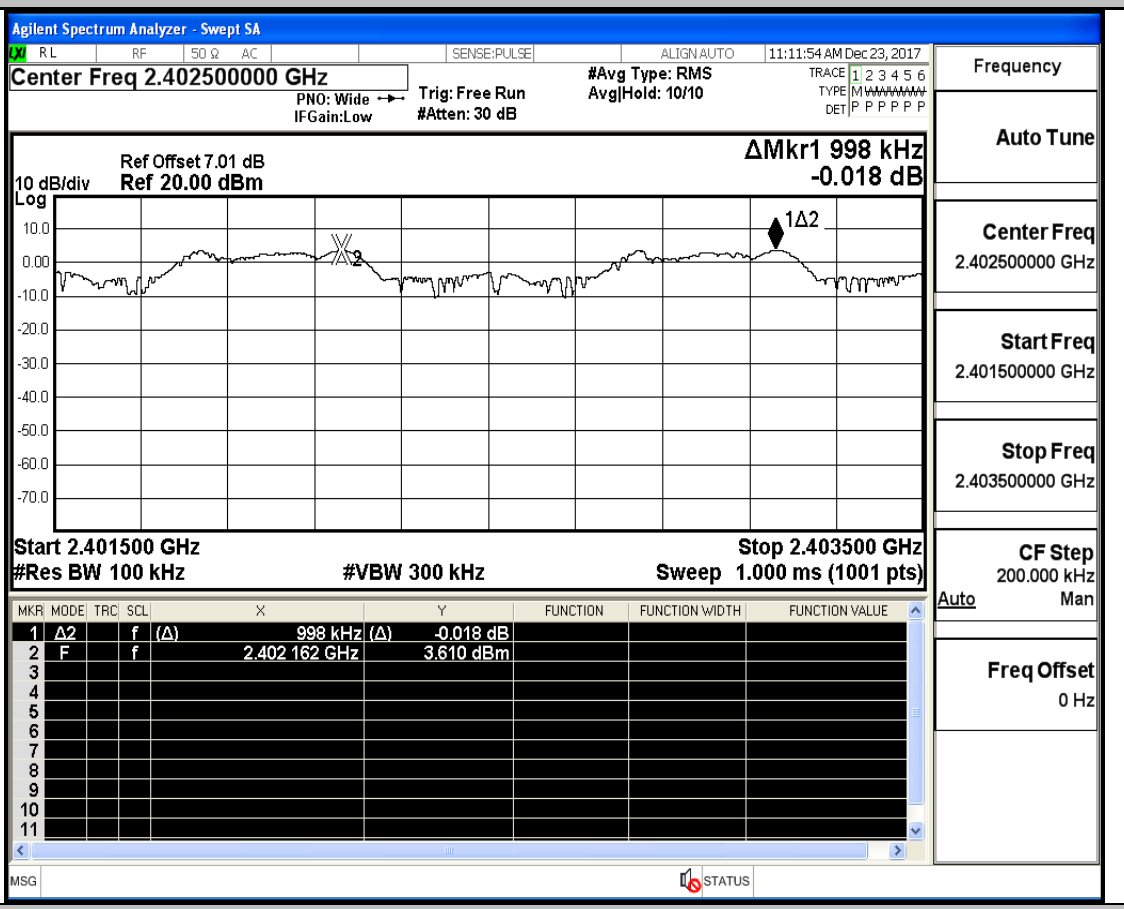
Carrier Frequency Separation_2DH5_2441



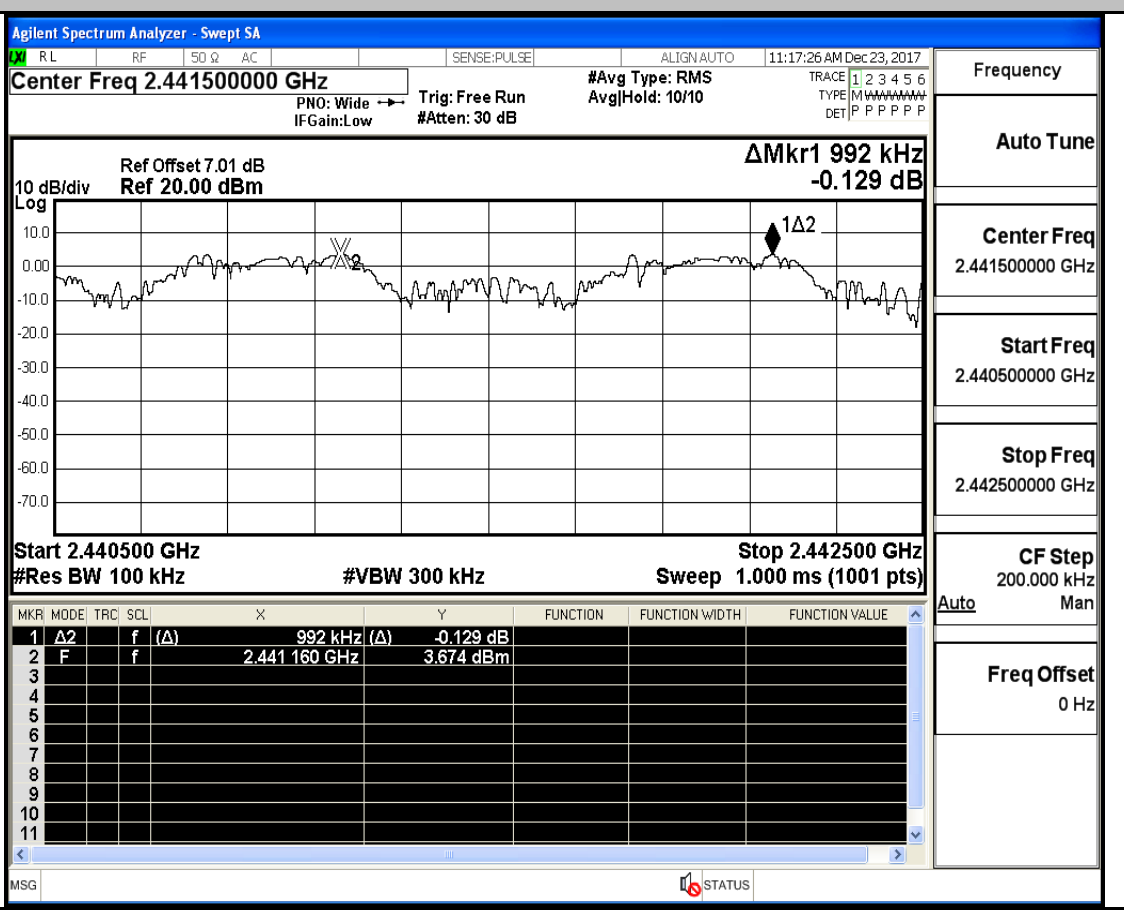
Carrier Frequency Separation_2DH5_2480



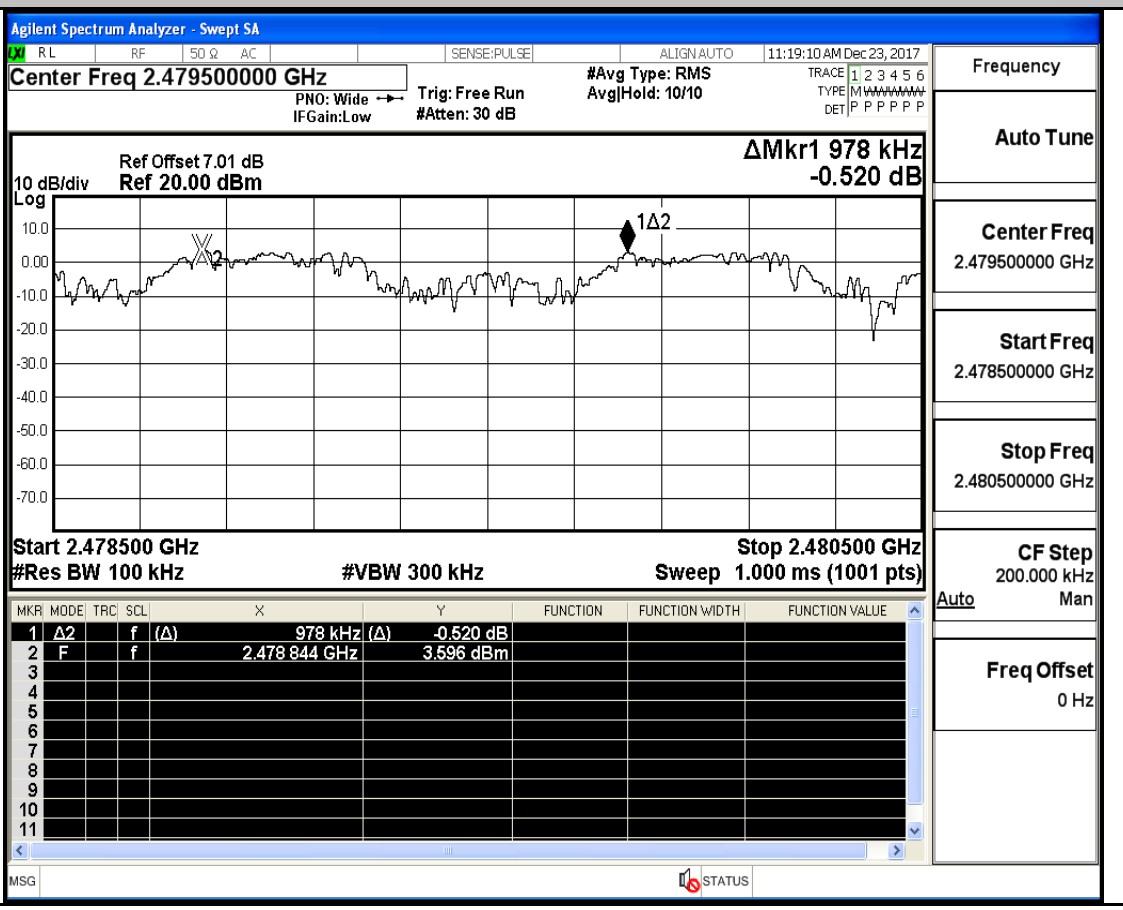
Carrier Frequency Separation_3DH5_2402



Carrier Frequency Separation_3DH5_2441



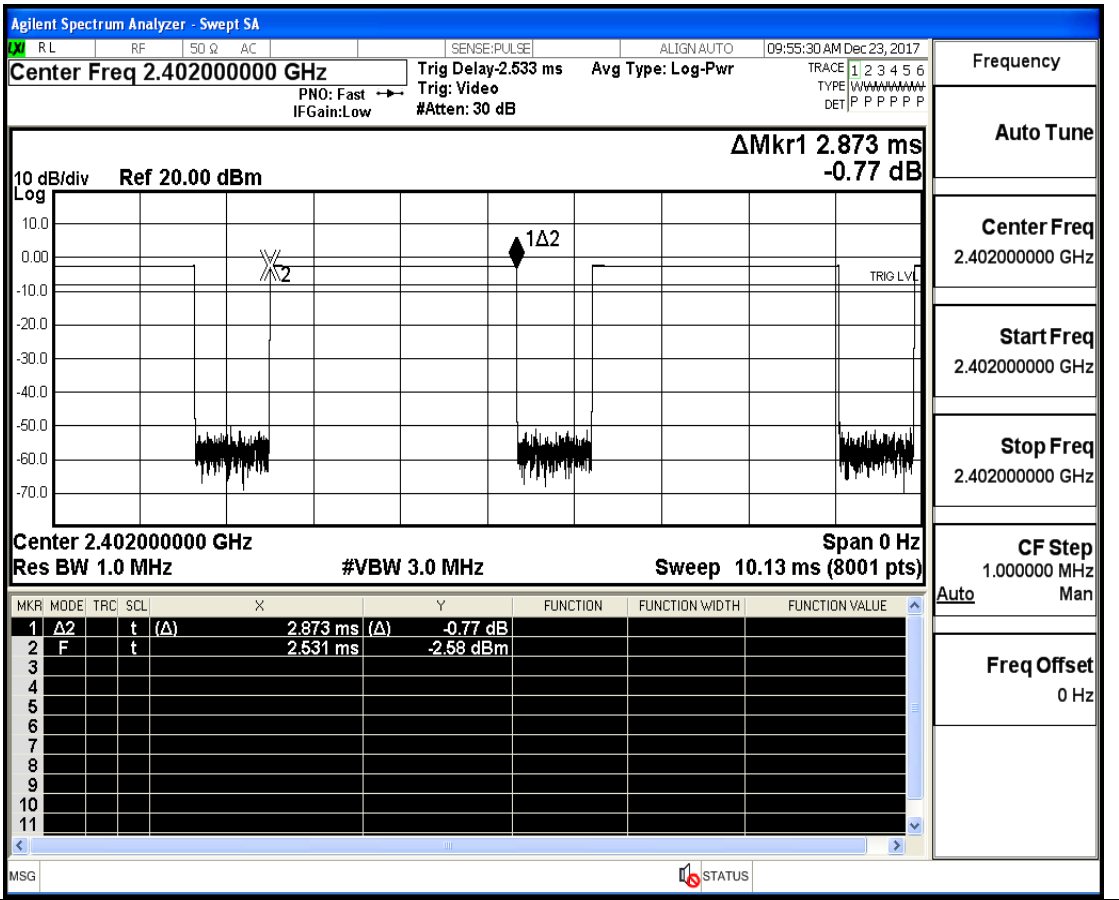
Carrier Frequency Separation_3DH5_2480



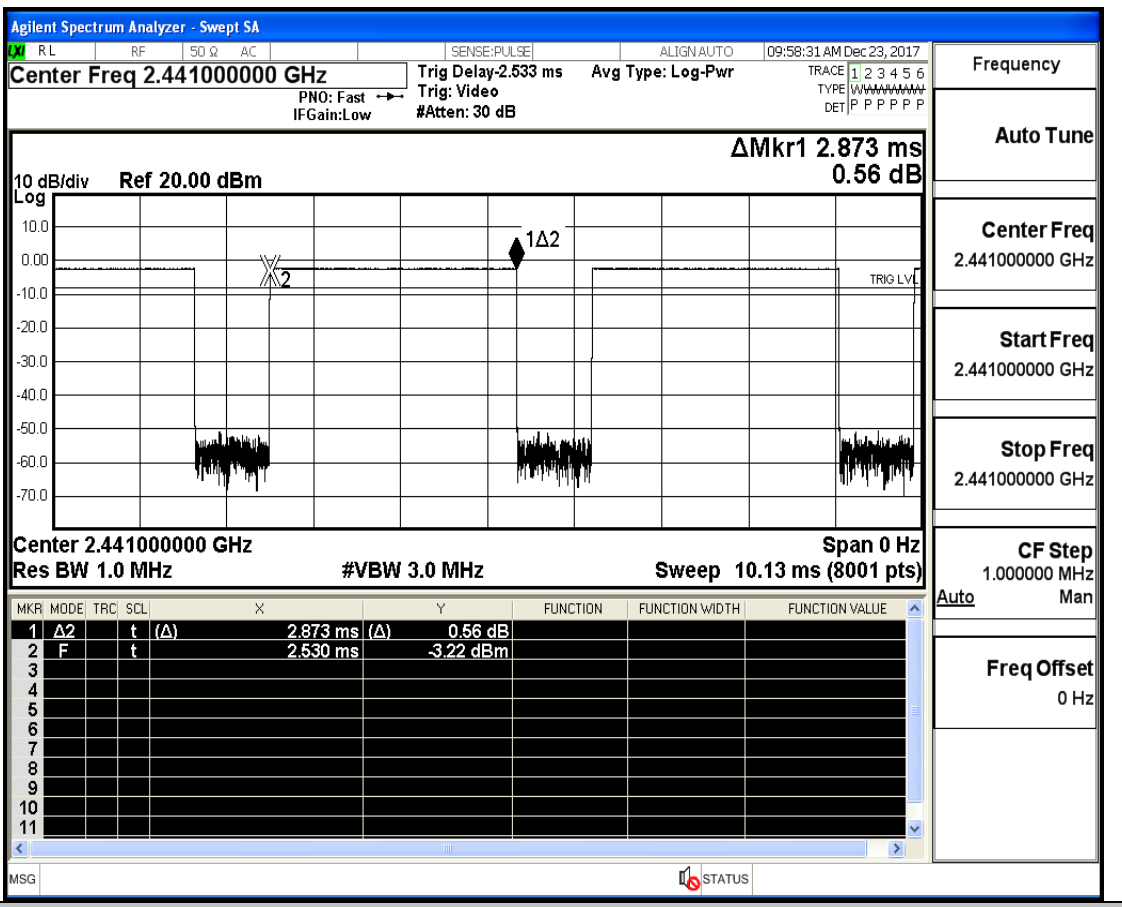
5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH5	2402	2.87	106.7	0.306	0.4	PASS
DH5	2441	2.87	106.7	0.306	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

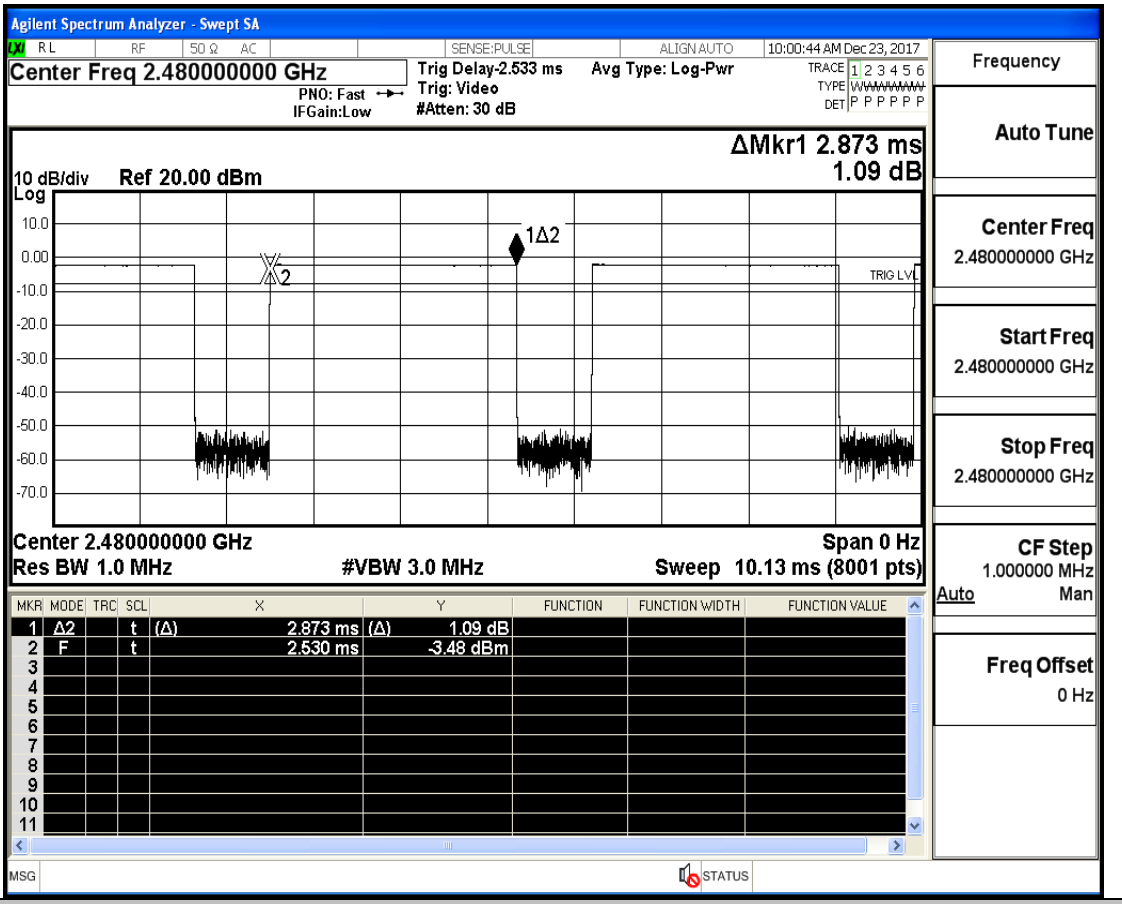
Dwell Time_DH5_2402



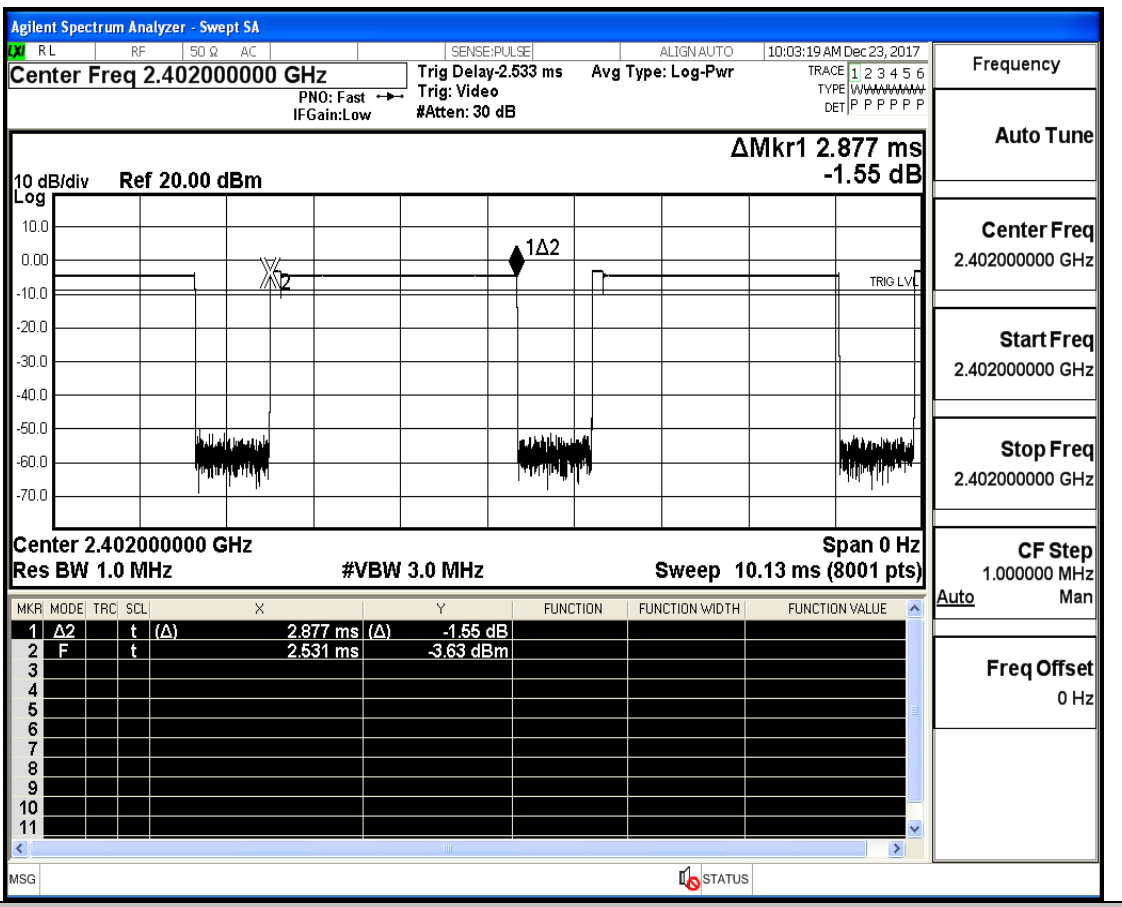
Dwell Time_DH5_2441



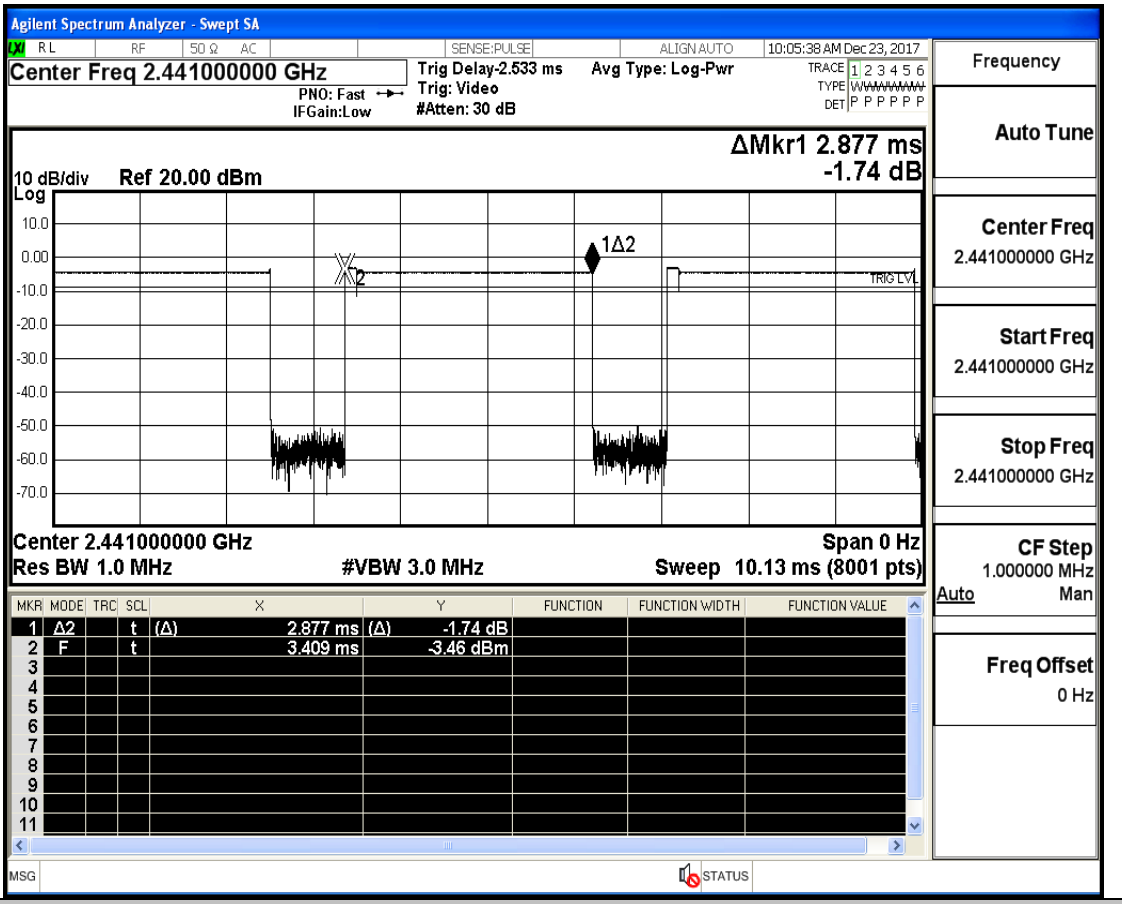
Dwell Time_DH5_2480



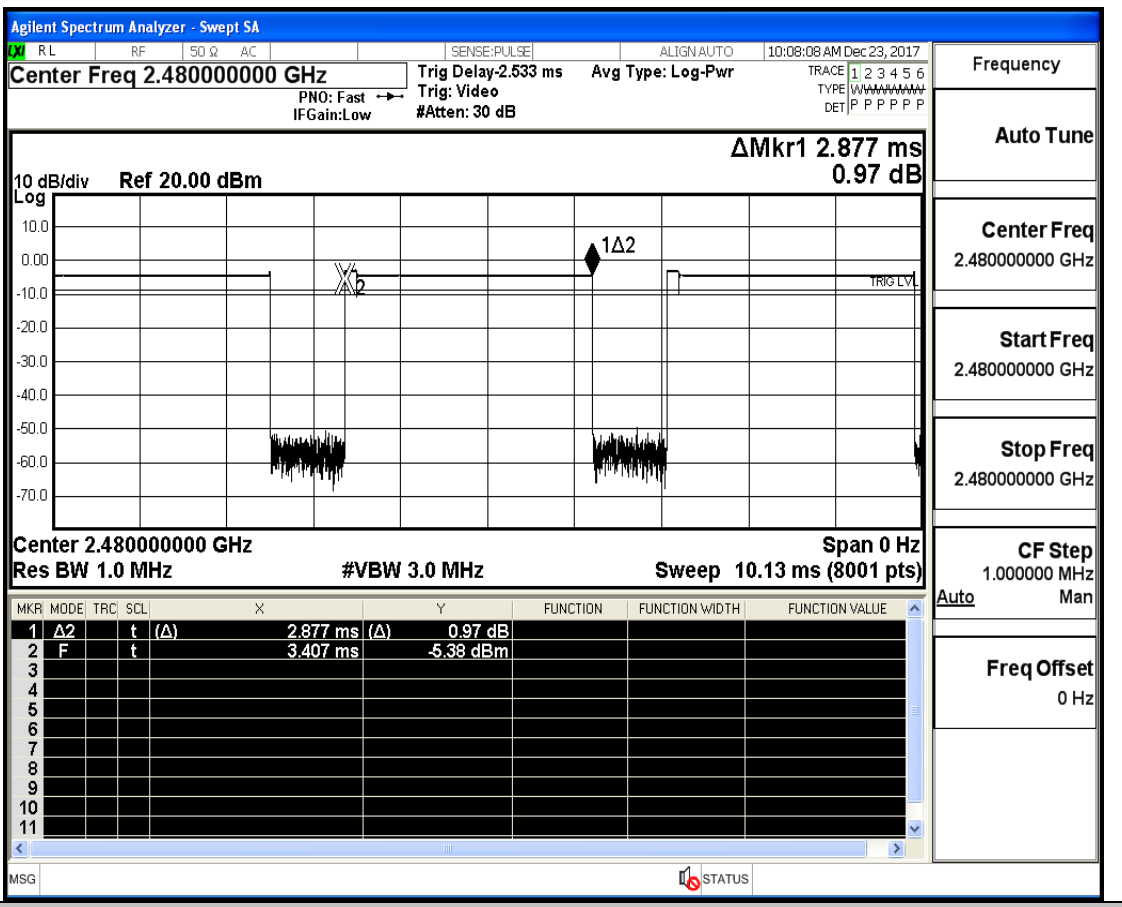
Dwell Time_2DH5_2402



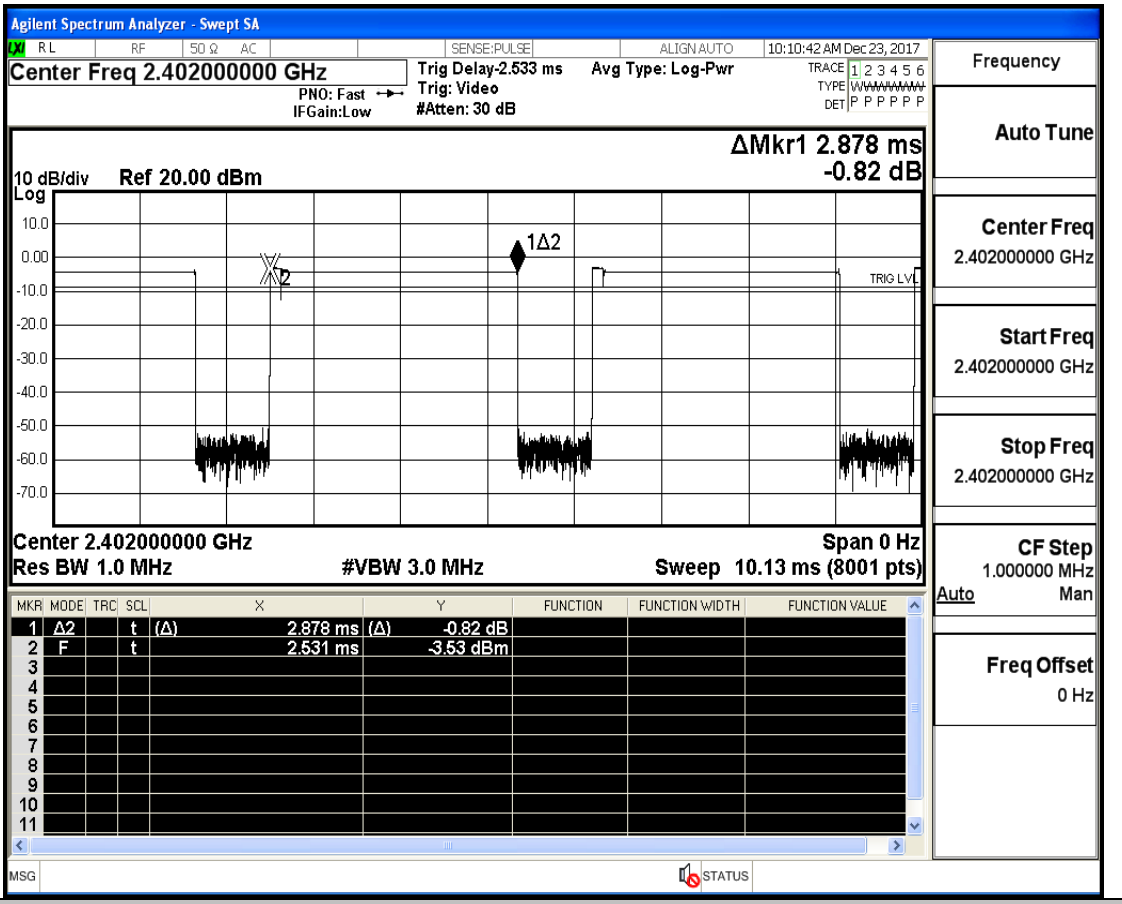
Dwell Time_2DH5_2441



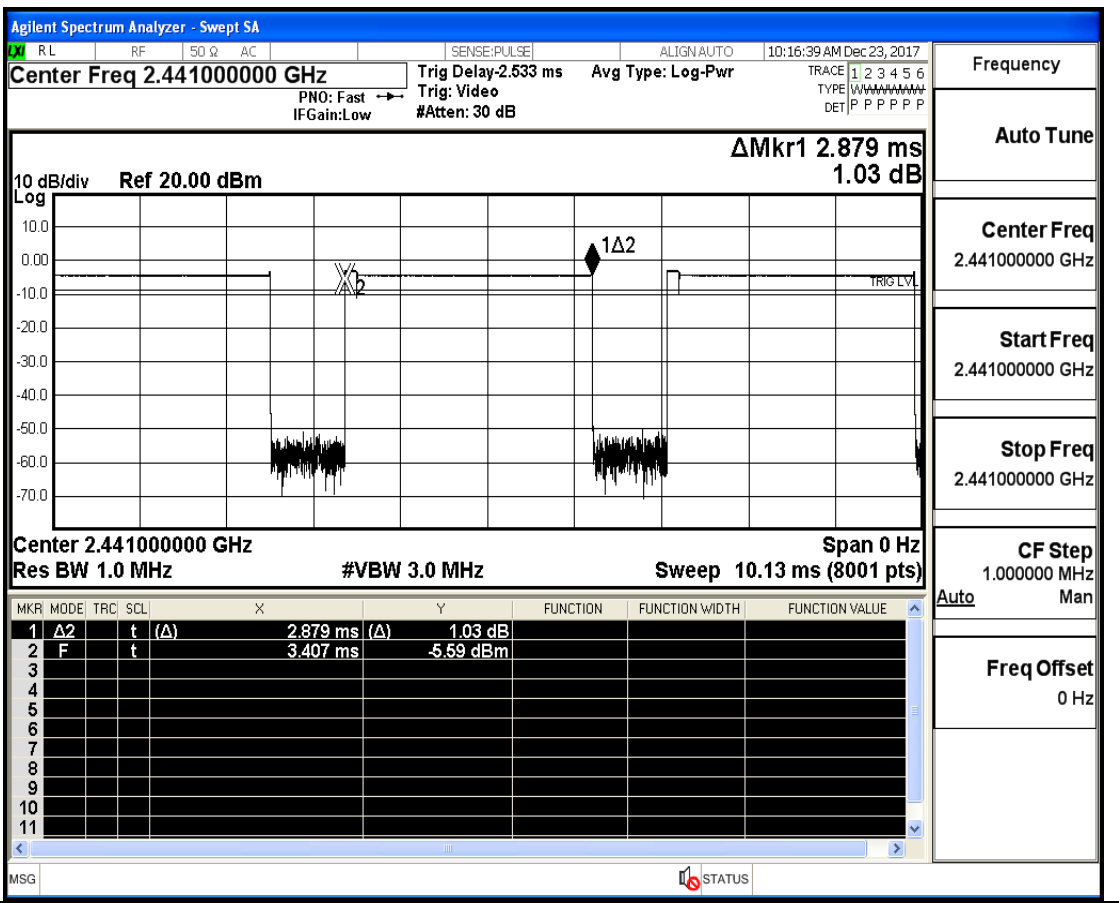
Dwell Time_2DH5_2480



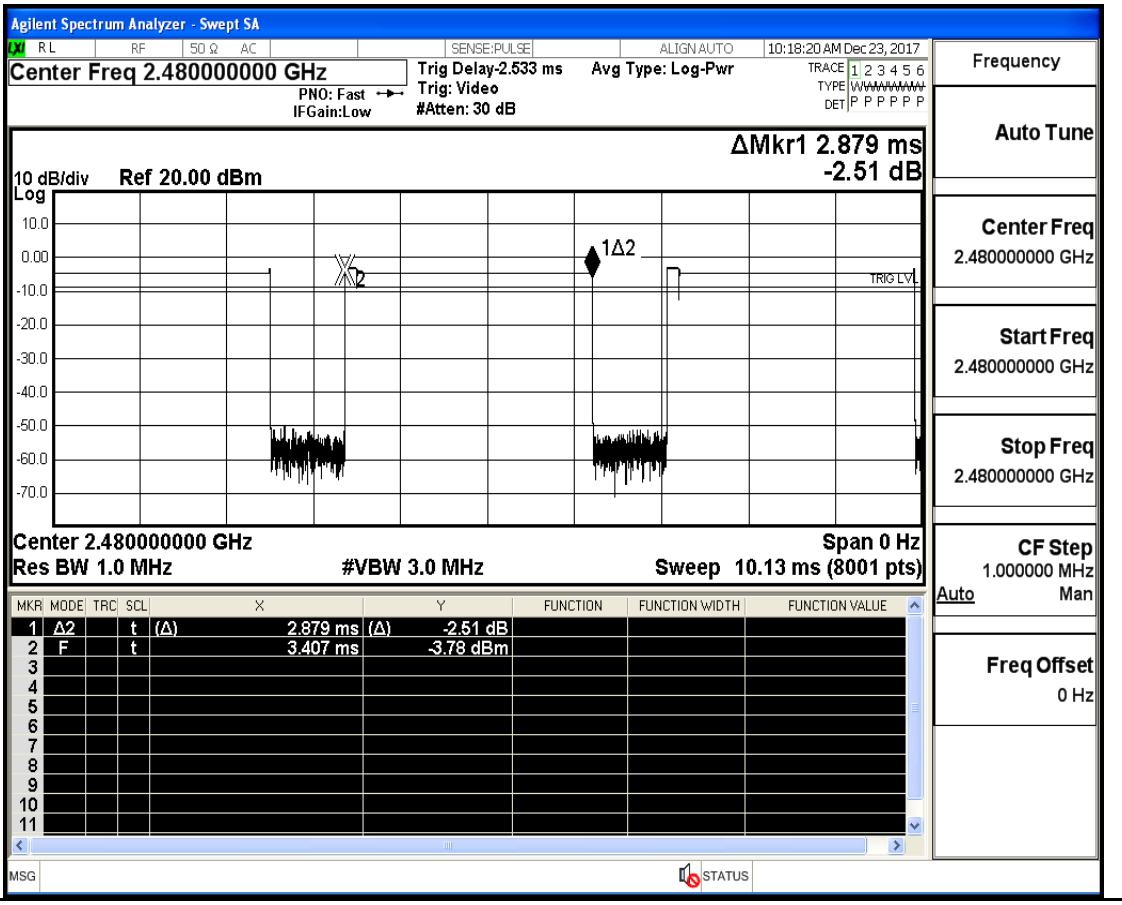
Dwell Time_3DH5_2402



Dwell Time_3DH5_2441



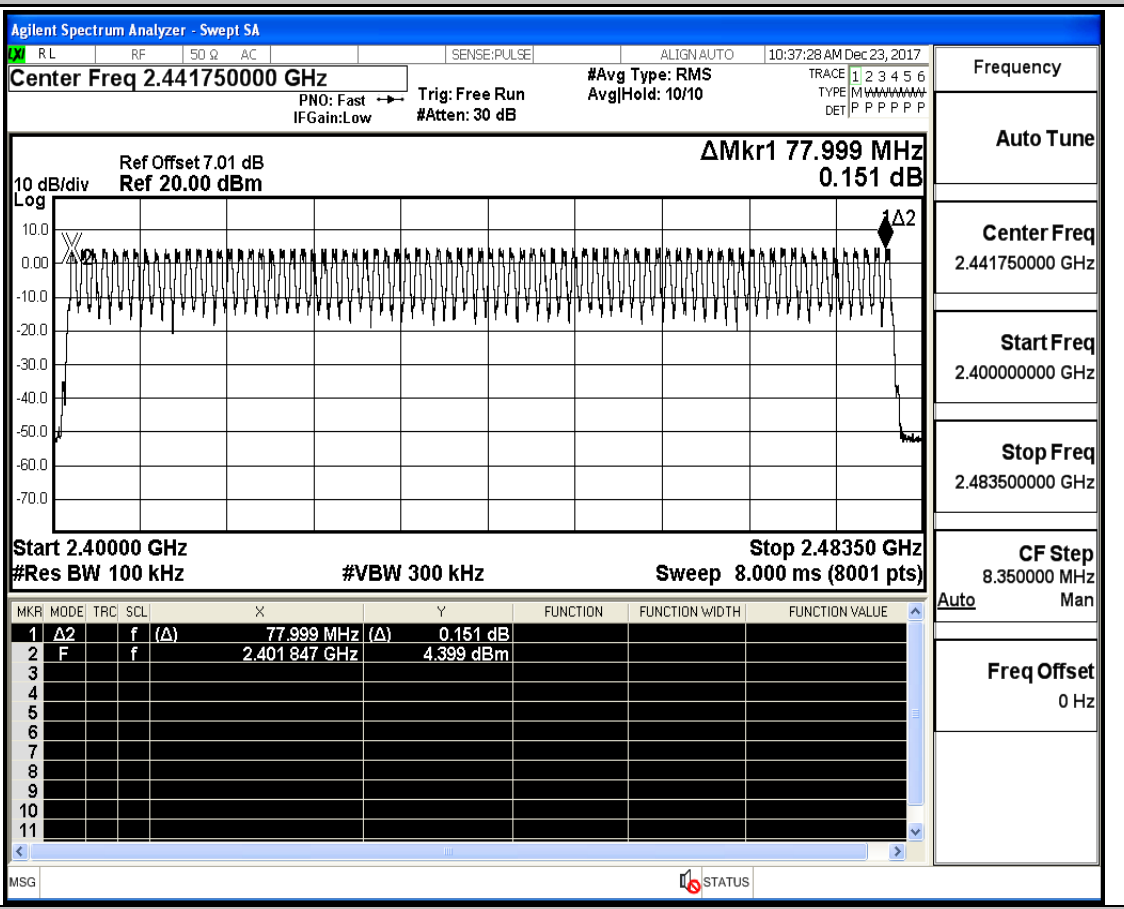
Dwell Time_3DH5_2480



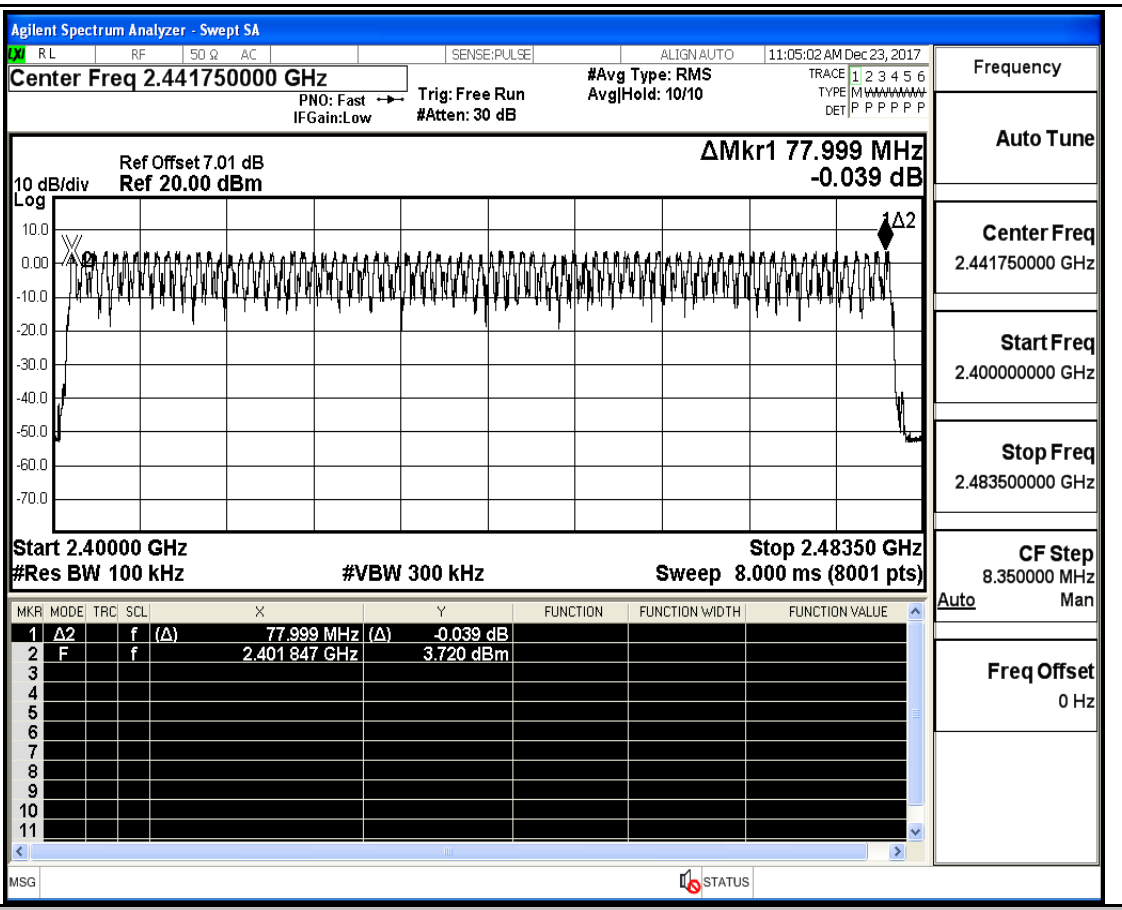
6.Hopping Channel Number

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

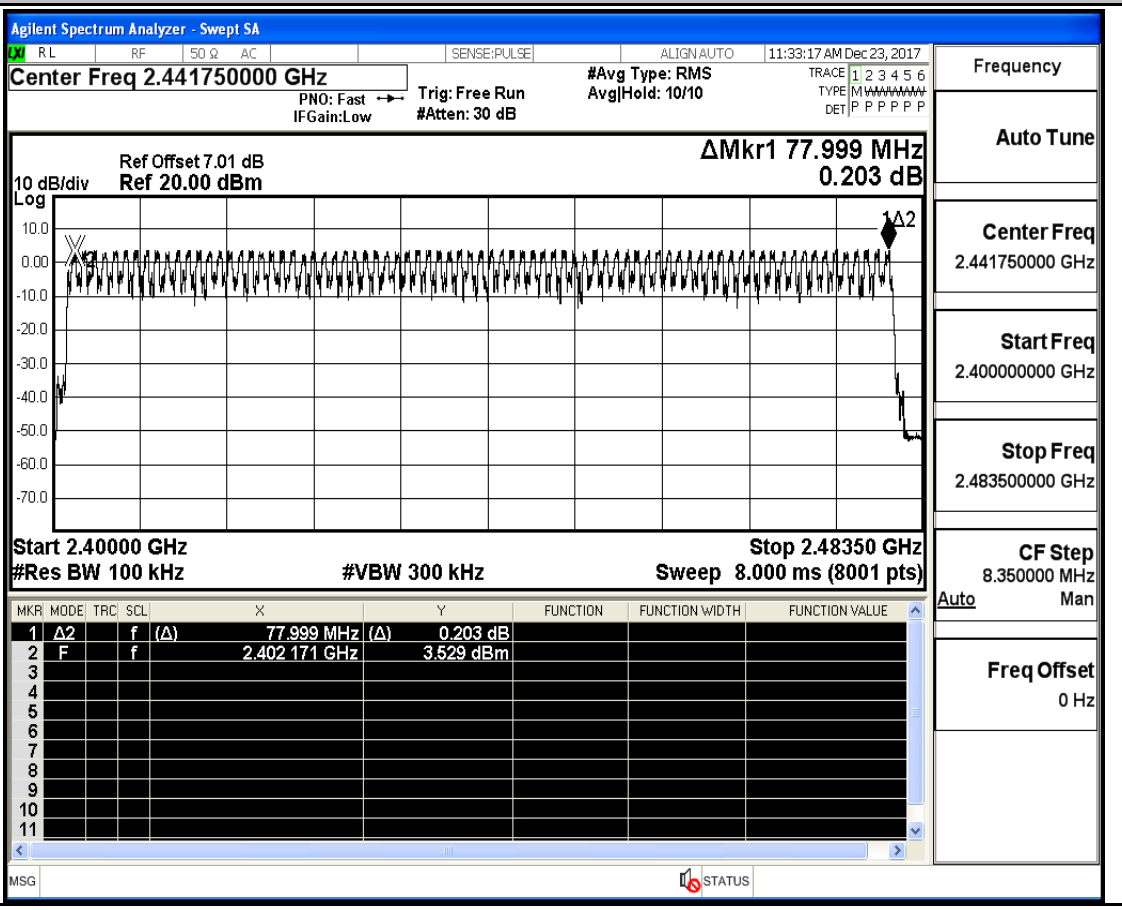
Hopping Channel Number_DH5_2402



Hopping Channel Number_2DH5_2402



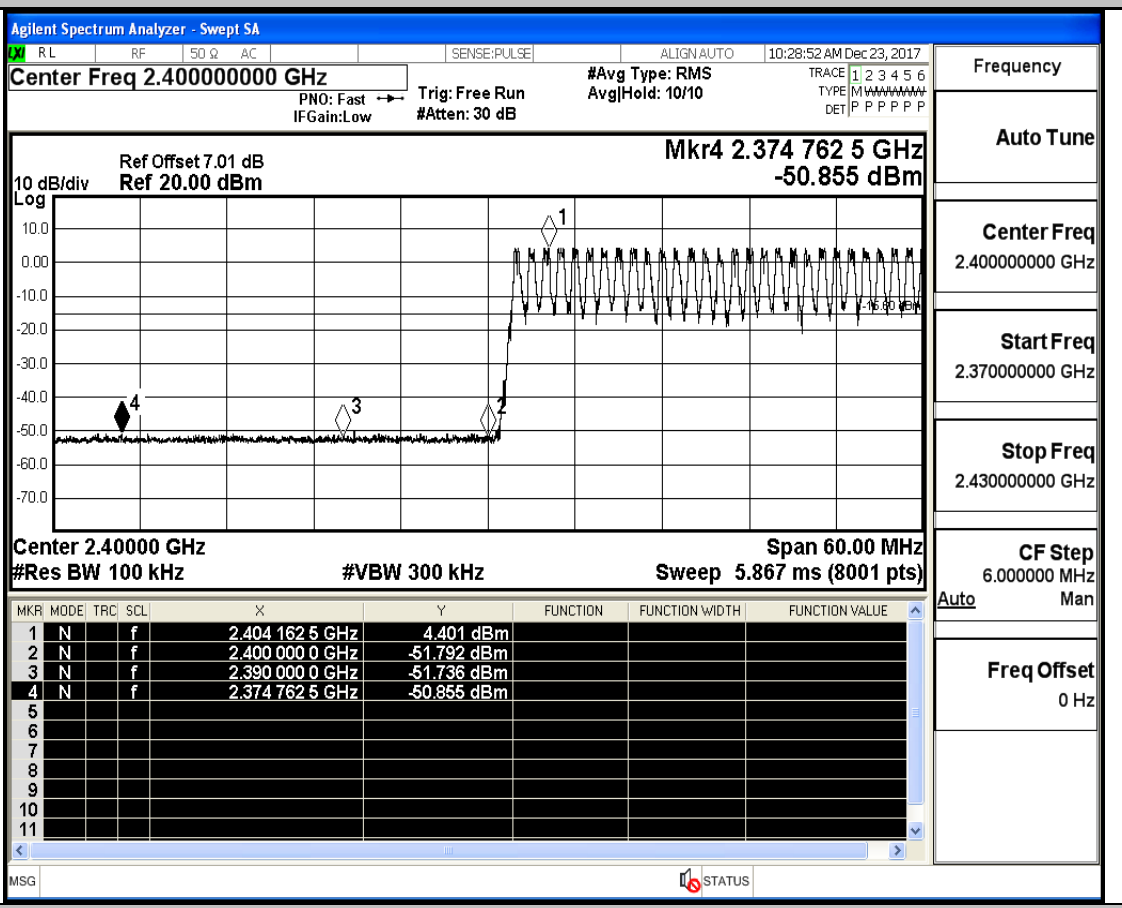
Hopping Channel Number_3DH5_2402



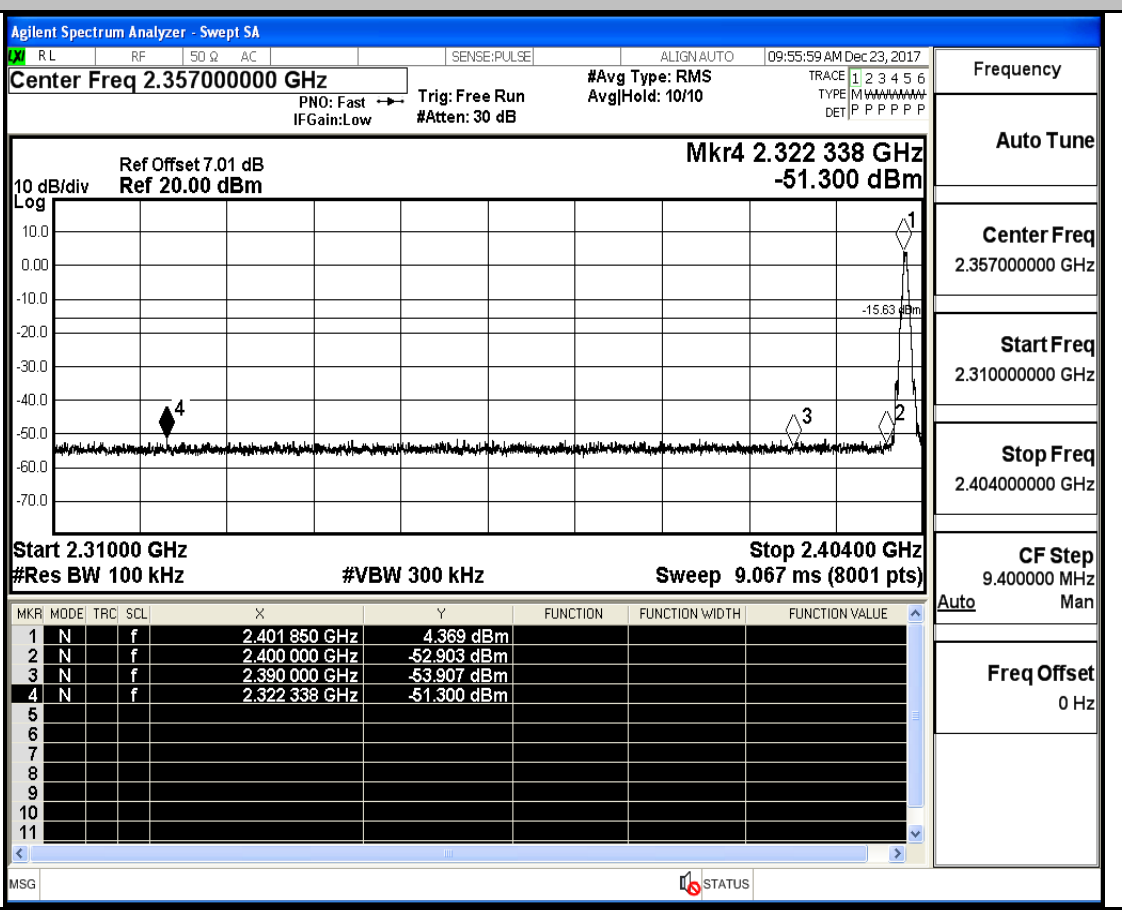
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	4.401	-50.855	-15.6	PASS
DH5	2402	Off	4.369	-51.300	-15.63	PASS
DH5	2480	On	4.584	-50.035	-15.42	PASS
DH5	2480	Off	4.947	-50.756	-15.05	PASS
2DH5	2402	On	3.677	-50.183	-16.32	PASS
2DH5	2402	Off	3.888	-51.477	-16.11	PASS
2DH5	2480	On	3.695	-50.080	-16.31	PASS
2DH5	2480	Off	4.045	-50.872	-15.96	PASS
3DH5	2402	On	3.696	-50.017	-16.3	PASS
3DH5	2402	Off	2.583	-50.896	-17.42	PASS
3DH5	2480	On	3.714	-49.746	-16.29	PASS
3DH5	2480	Off	3.987	-51.262	-16.01	PASS

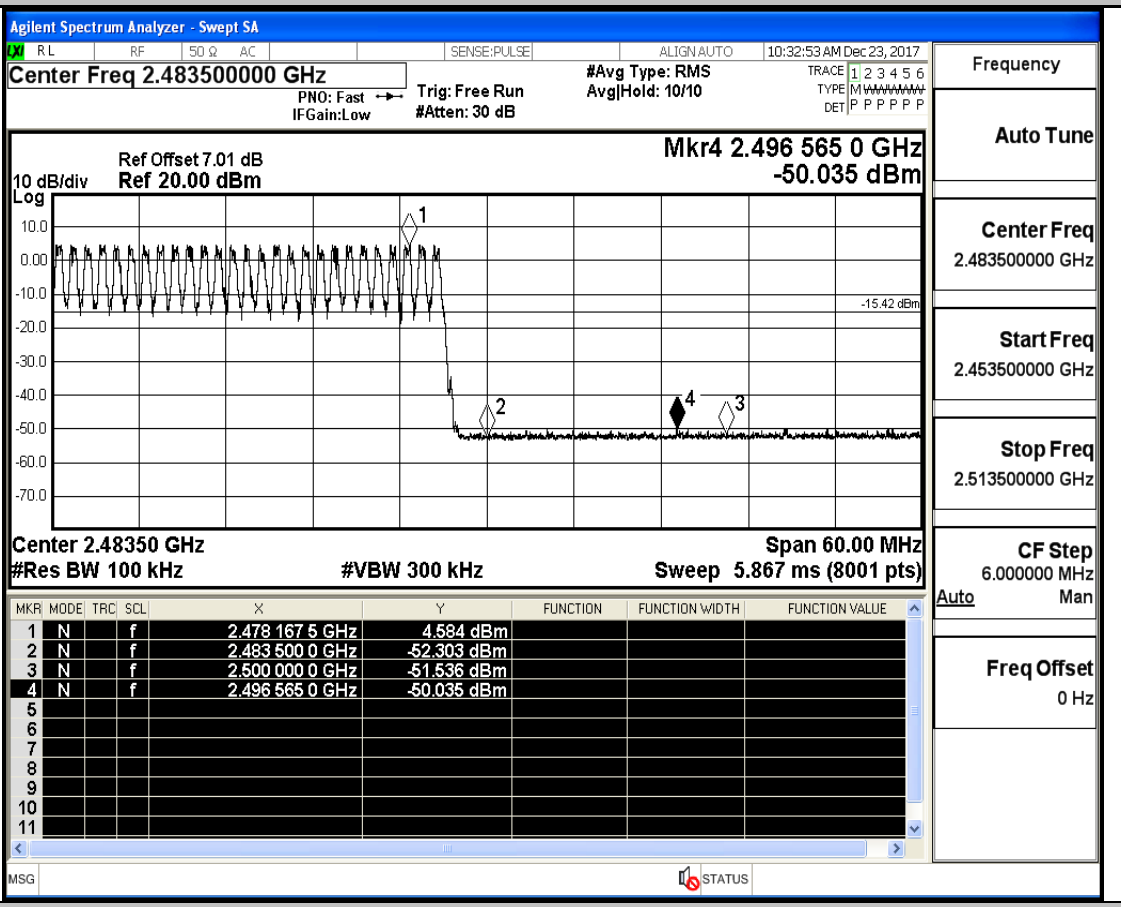
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



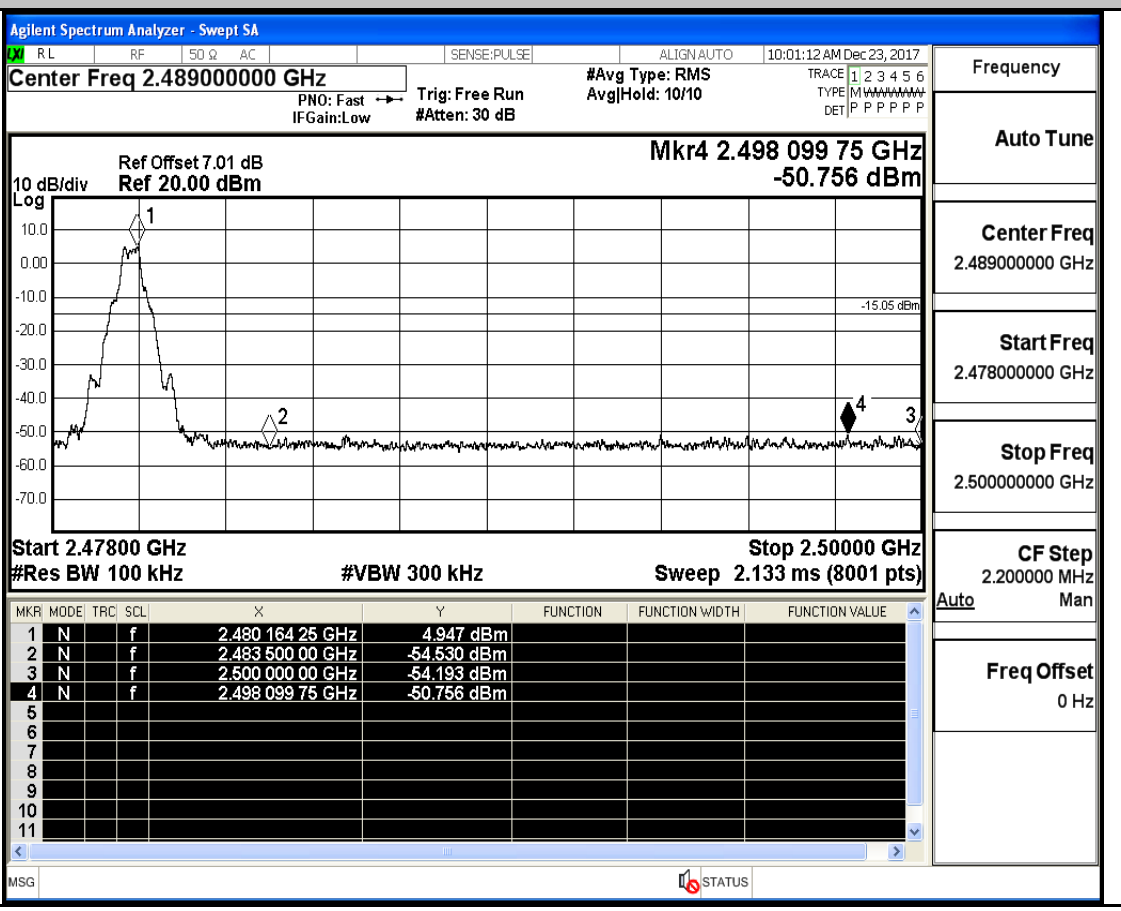
Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



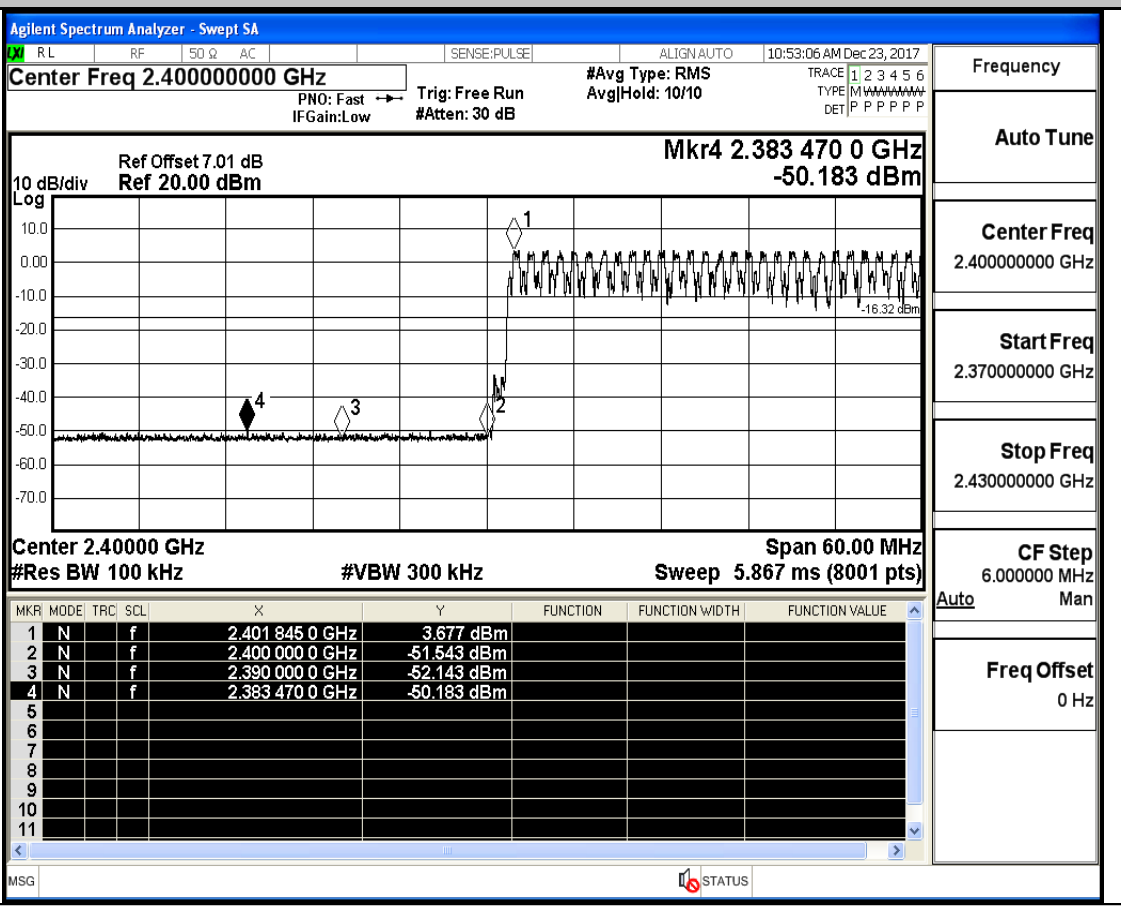
Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



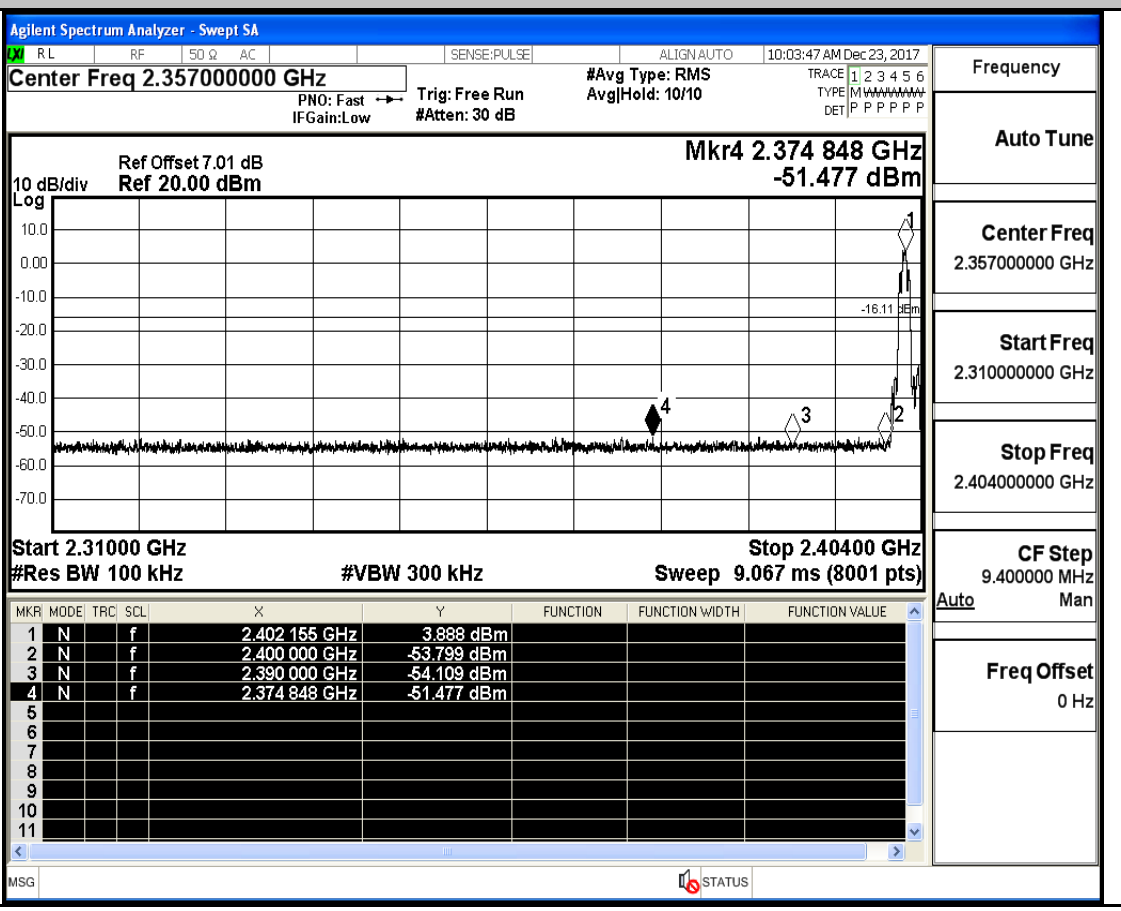
Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



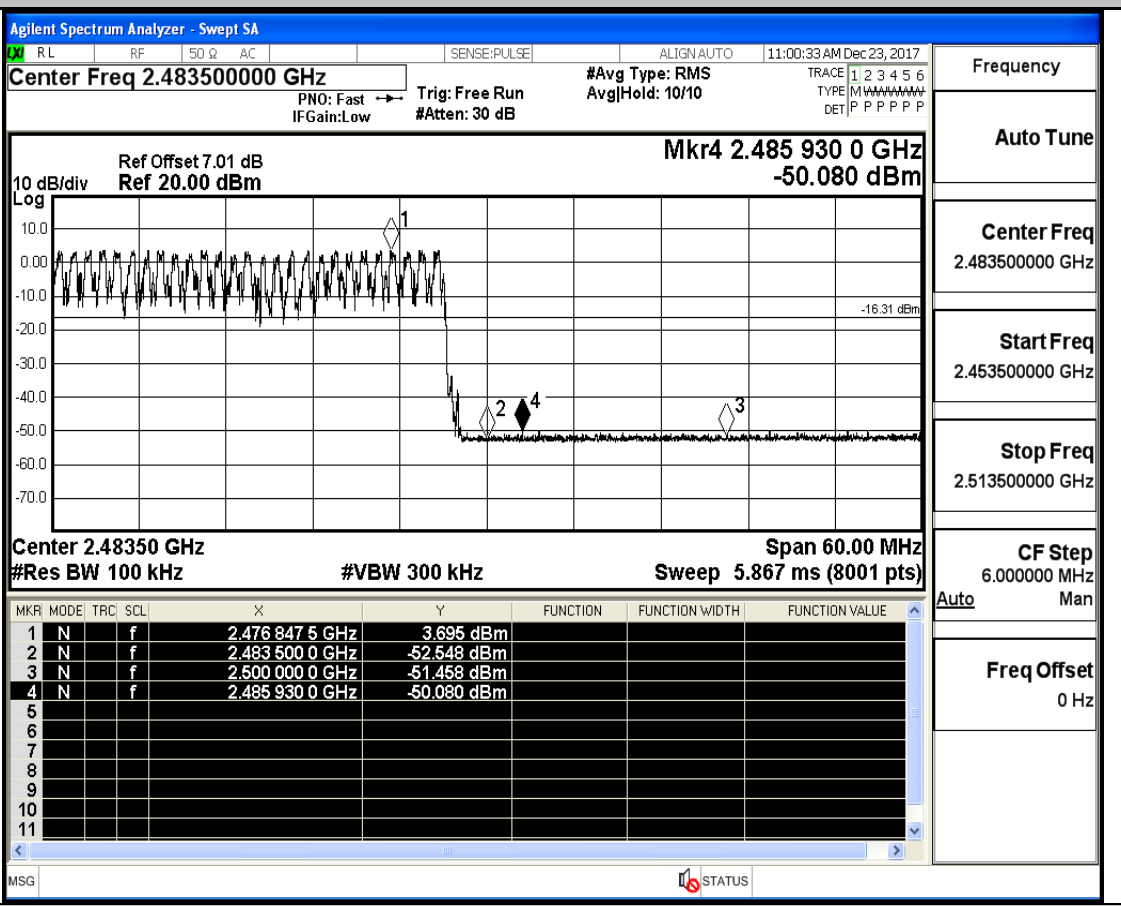
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



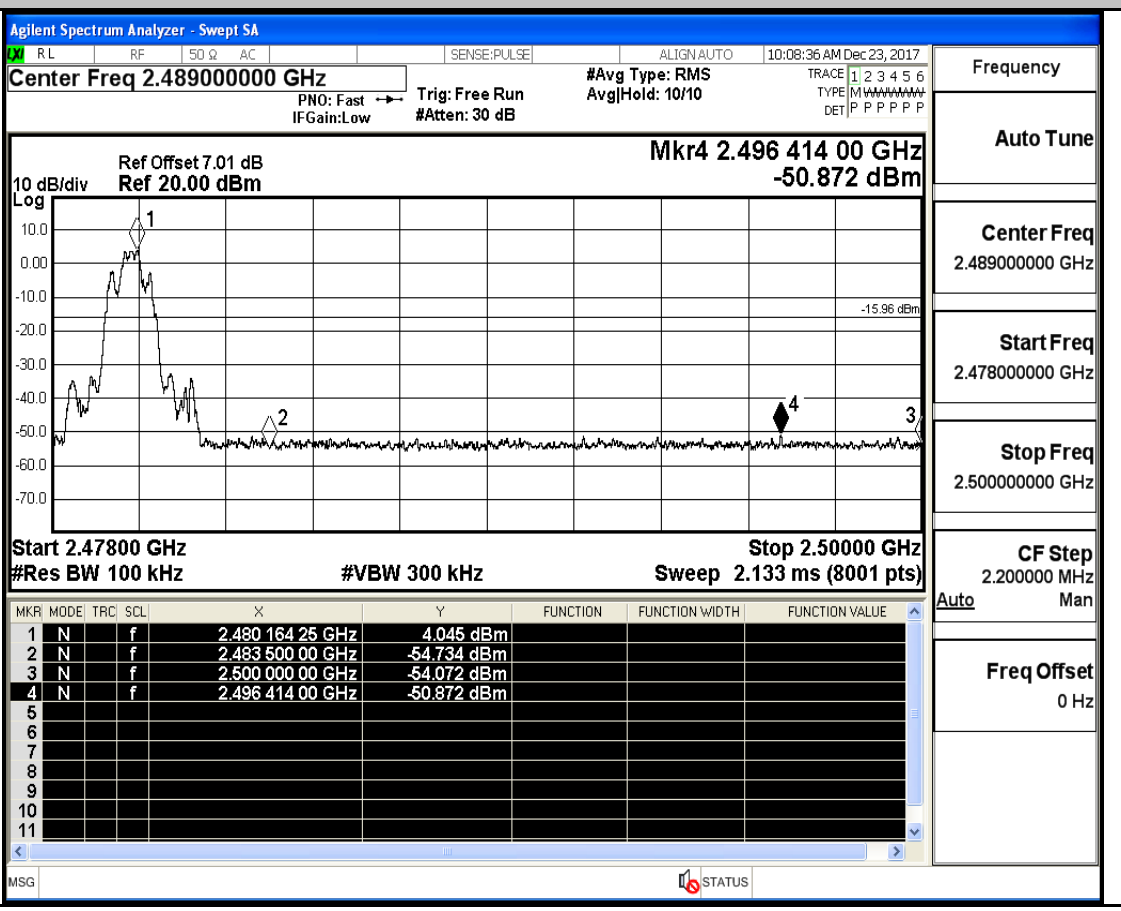
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



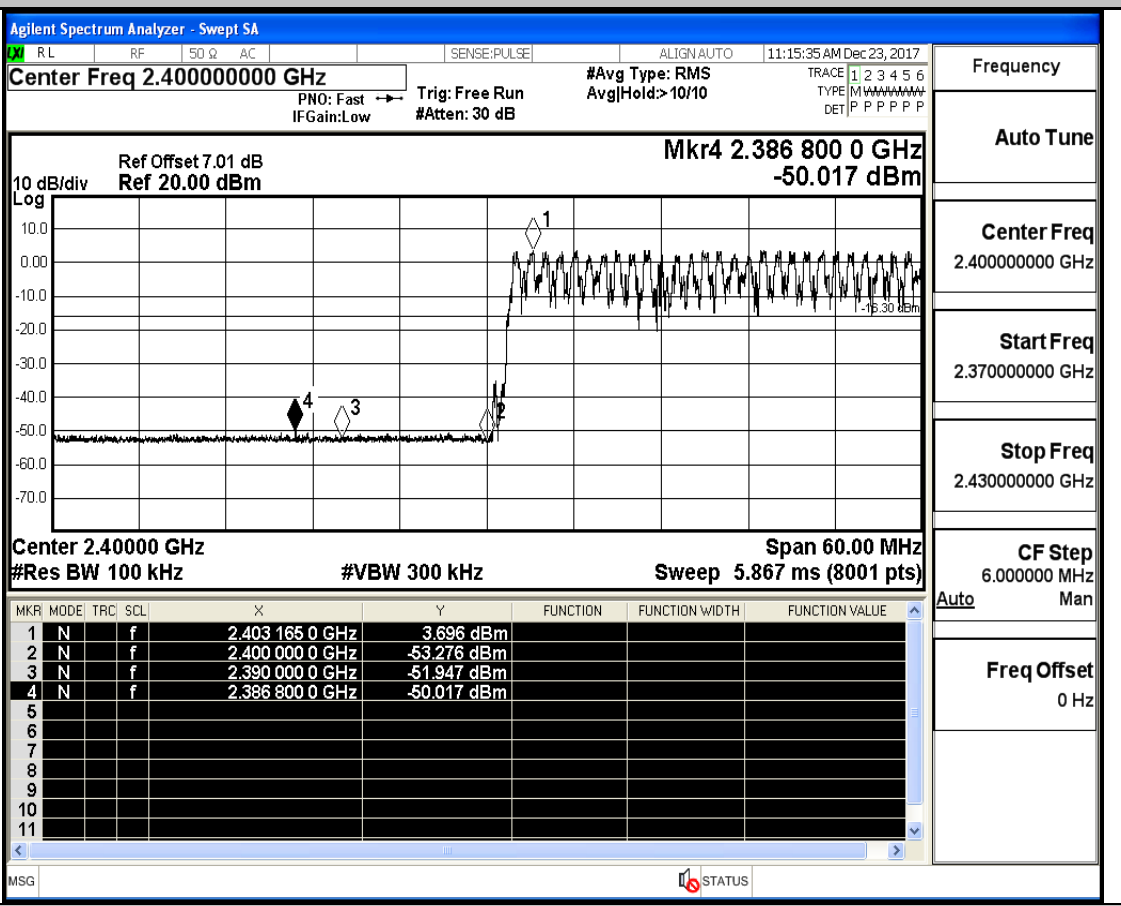
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



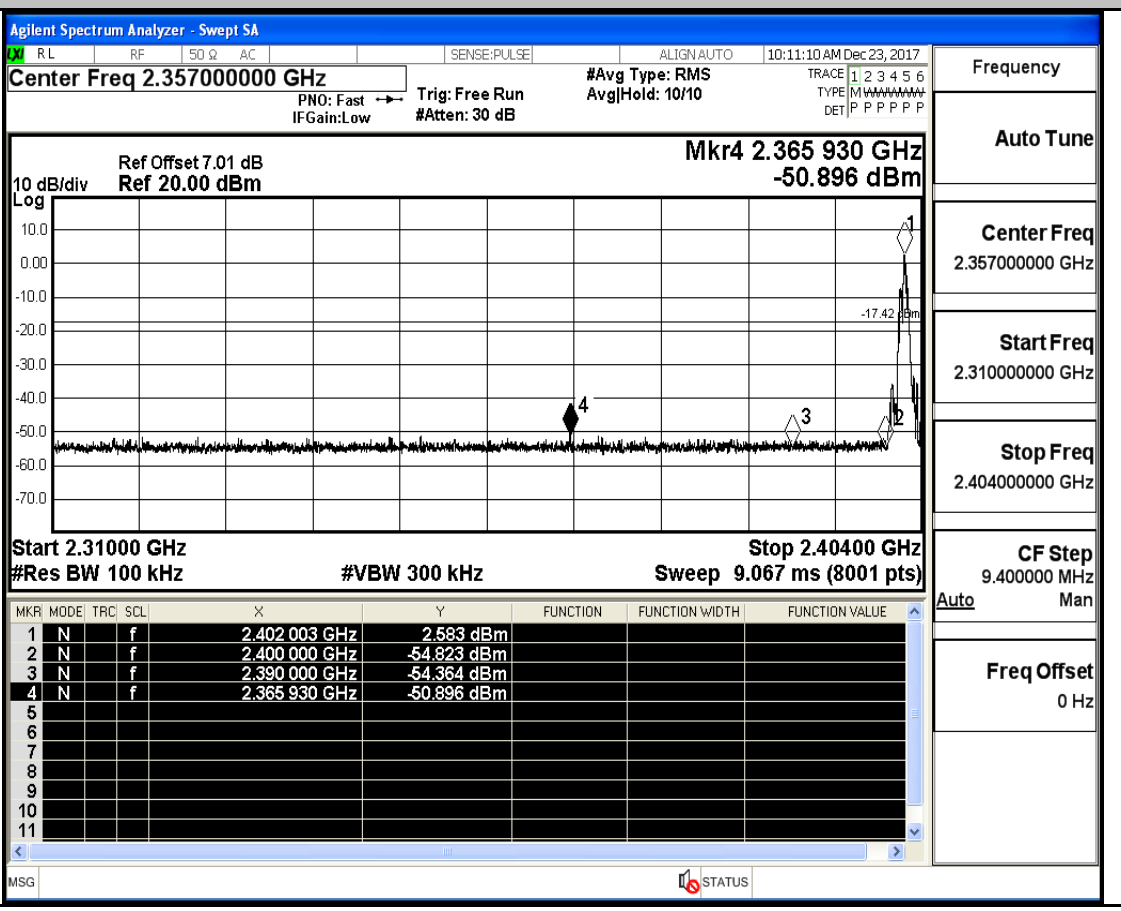
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



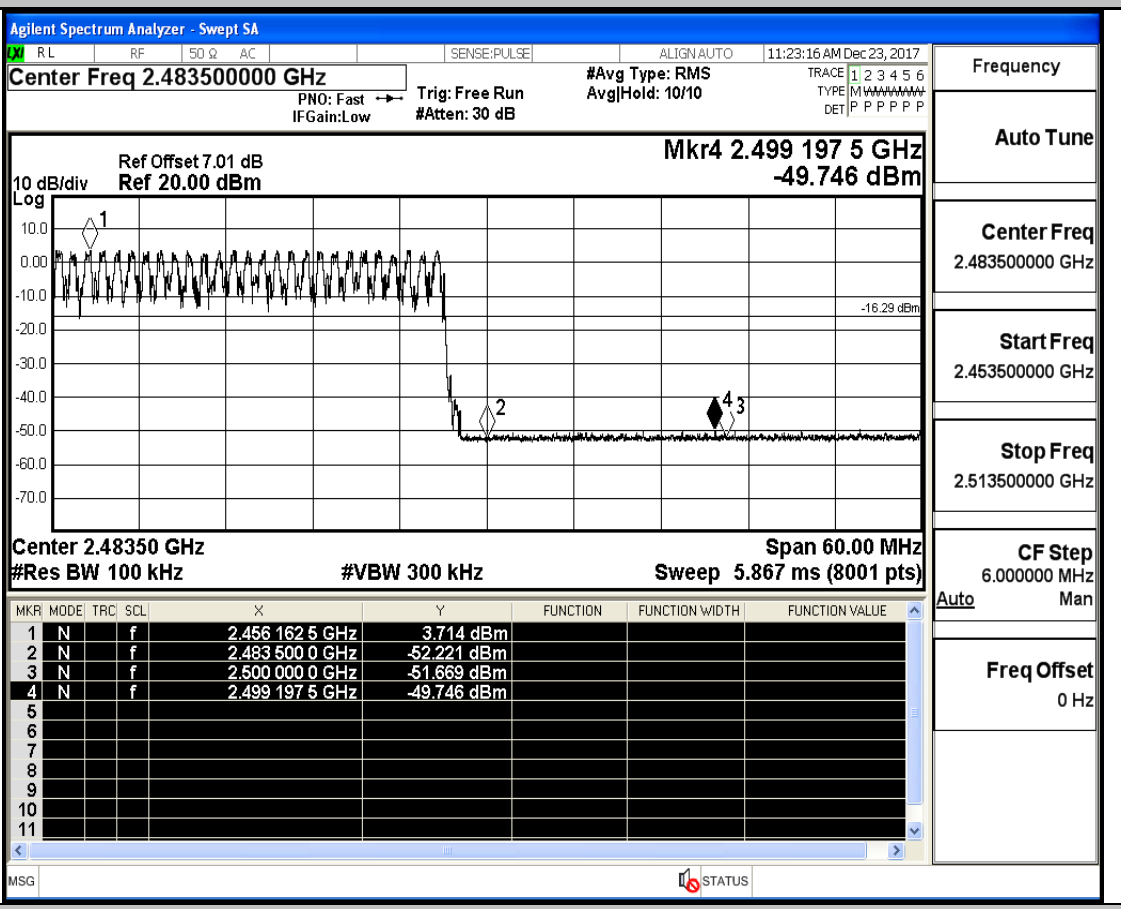
Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



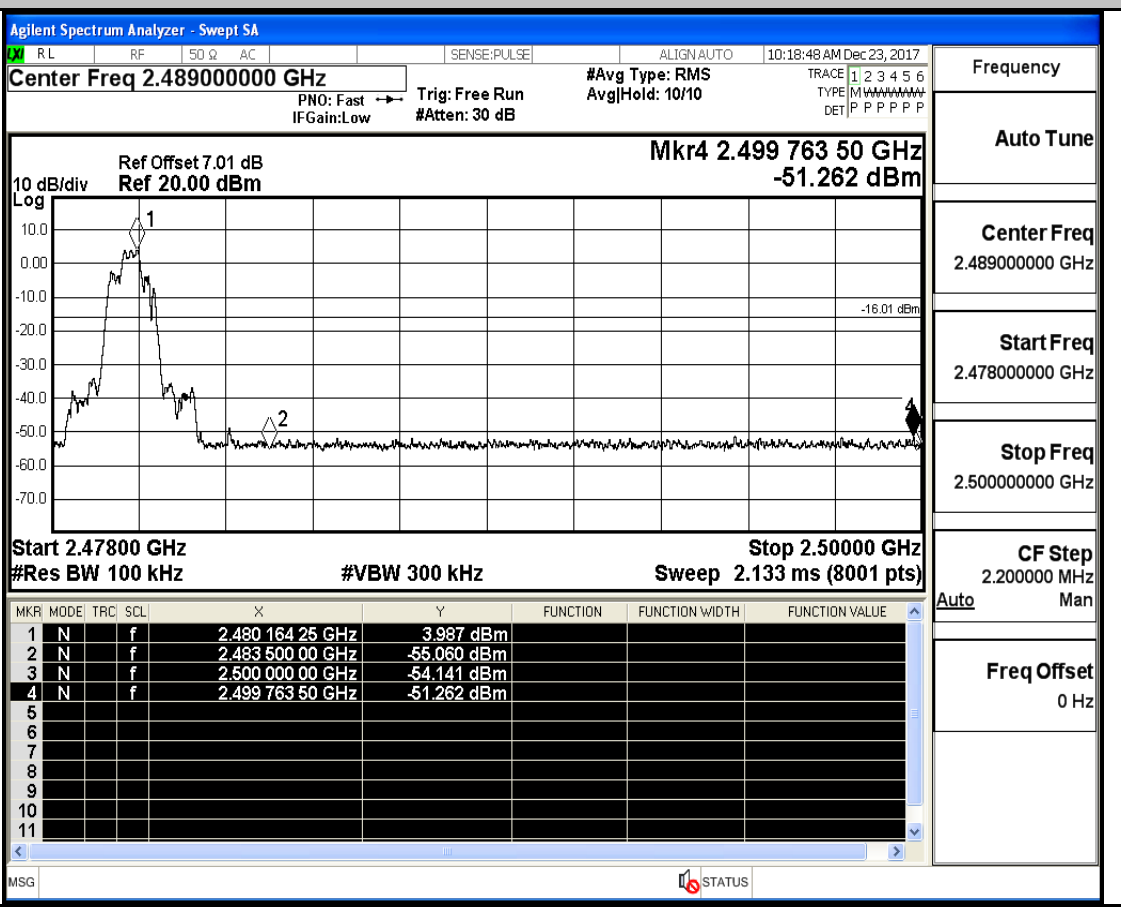
Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



Band-edge for RF Conducted Emissions_3DH5_2480_Hopping On



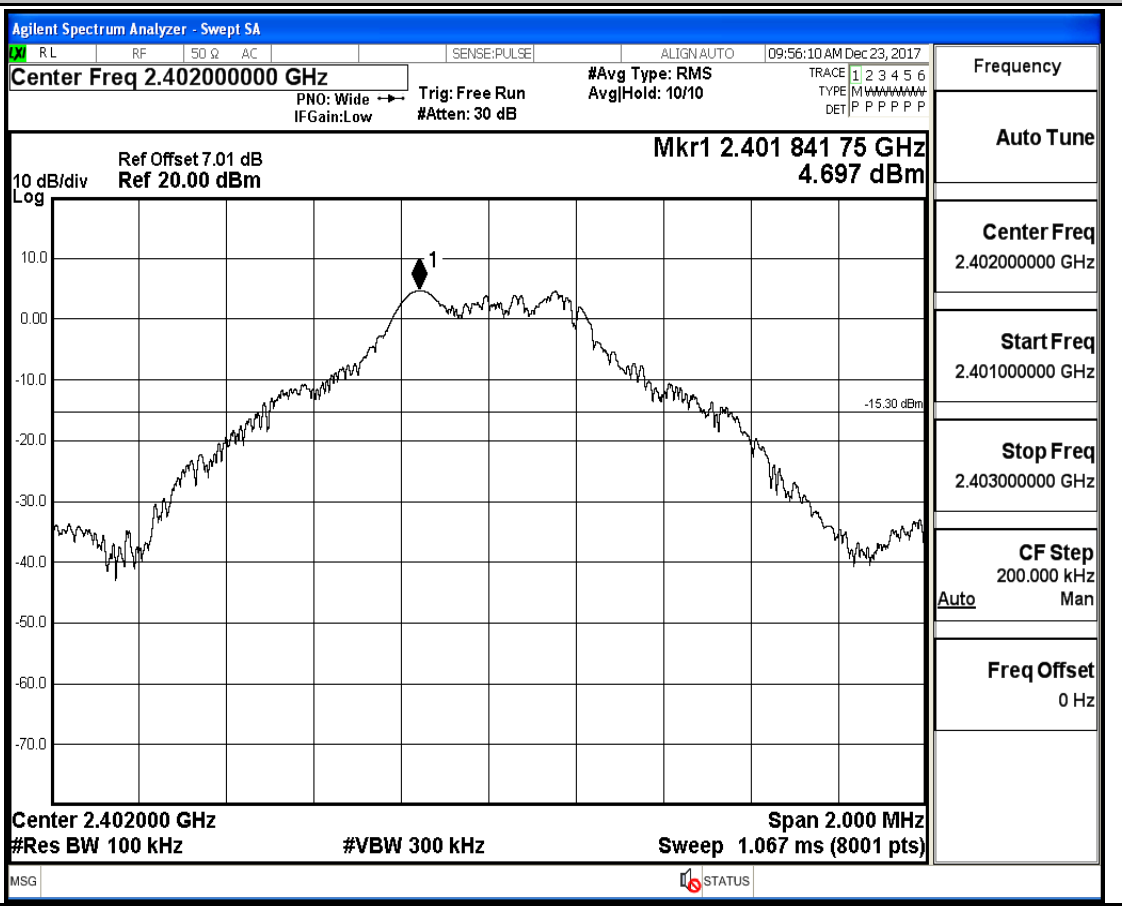
Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off

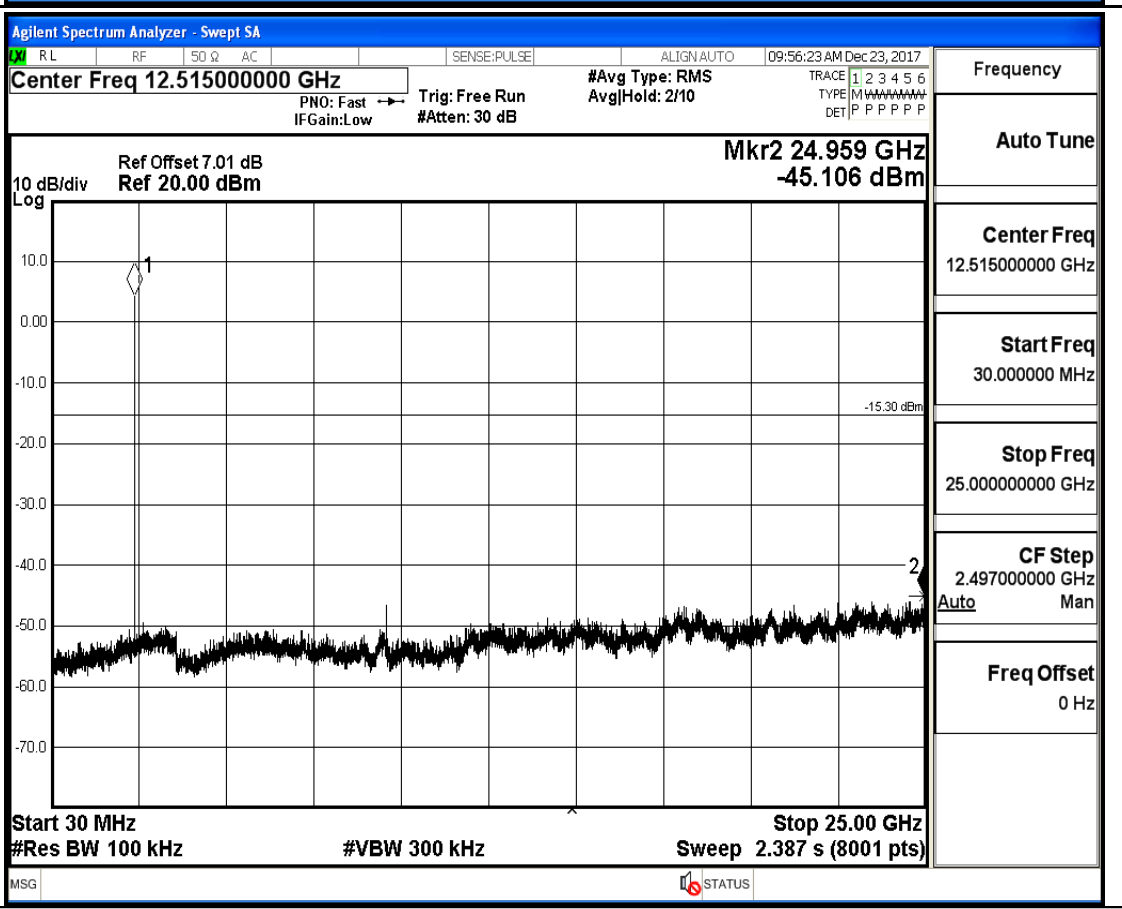


8.RF Conducted Spurious Emissions

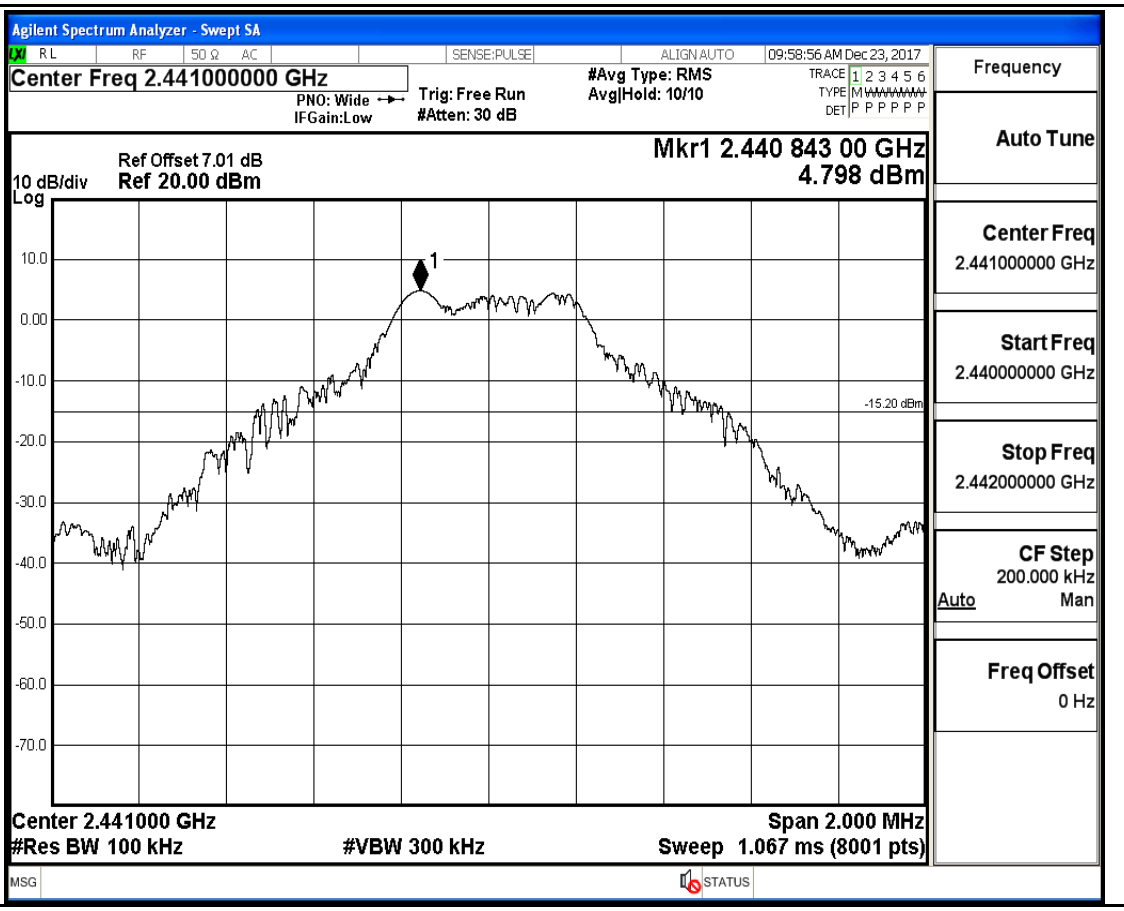
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	25000	100	300	4.697	-45.106	<-15.303	PASS
DH5	2441	30	25000	100	300	4.798	-45.601	<-15.202	PASS
DH5	2480	30	25000	100	300	4.905	-46.336	<-15.095	PASS
2DH5	2402	30	25000	100	300	3.366	-45.712	<-16.634	PASS
2DH5	2441	30	25000	100	300	3.85	-46.088	<-16.15	PASS
2DH5	2480	30	25000	100	300	3.601	-45.760	<-16.399	PASS
3DH5	2402	30	25000	100	300	3.372	-46.149	<-16.628	PASS
3DH5	2441	30	25000	100	300	3.383	-45.030	<-16.617	PASS
3DH5	2480	30	25000	100	300	3.4	-45.956	<-16.6	PASS

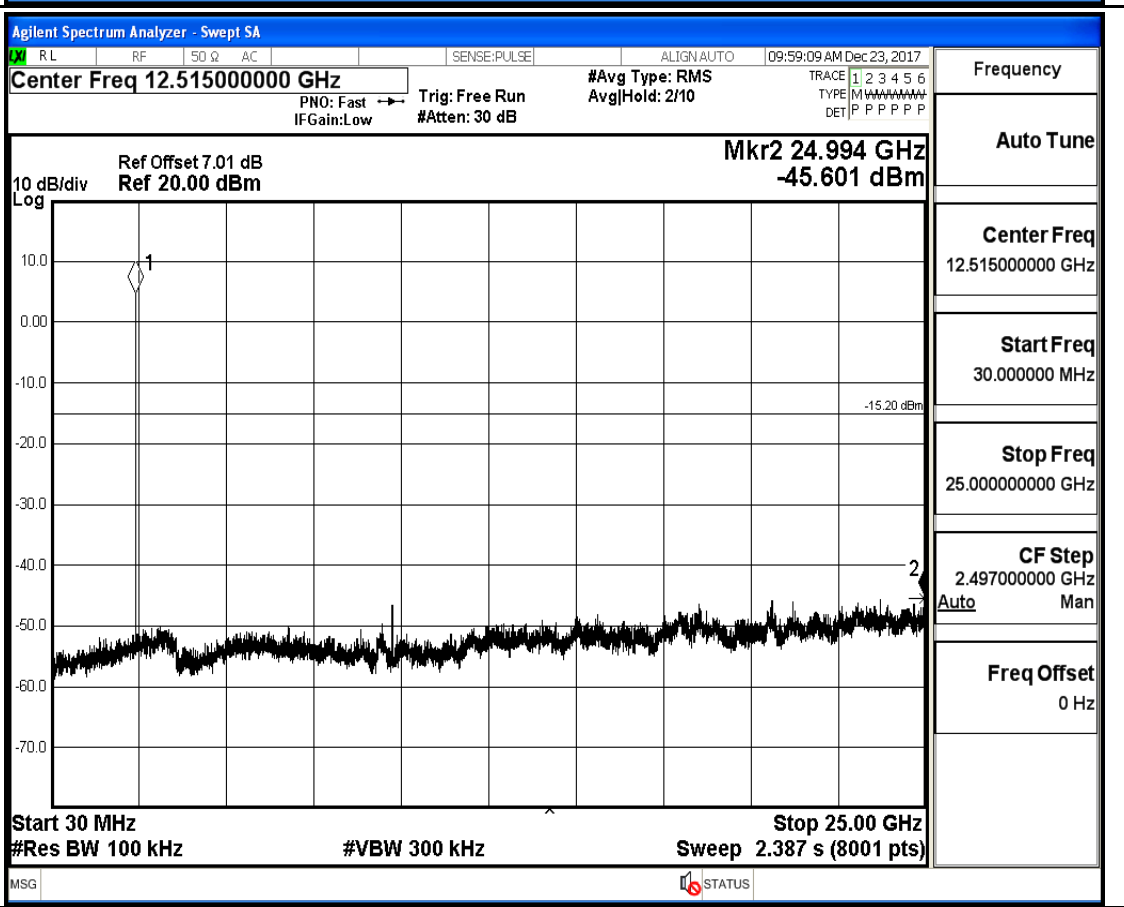
RF Conducted Spurious Emissions_DH5_2402



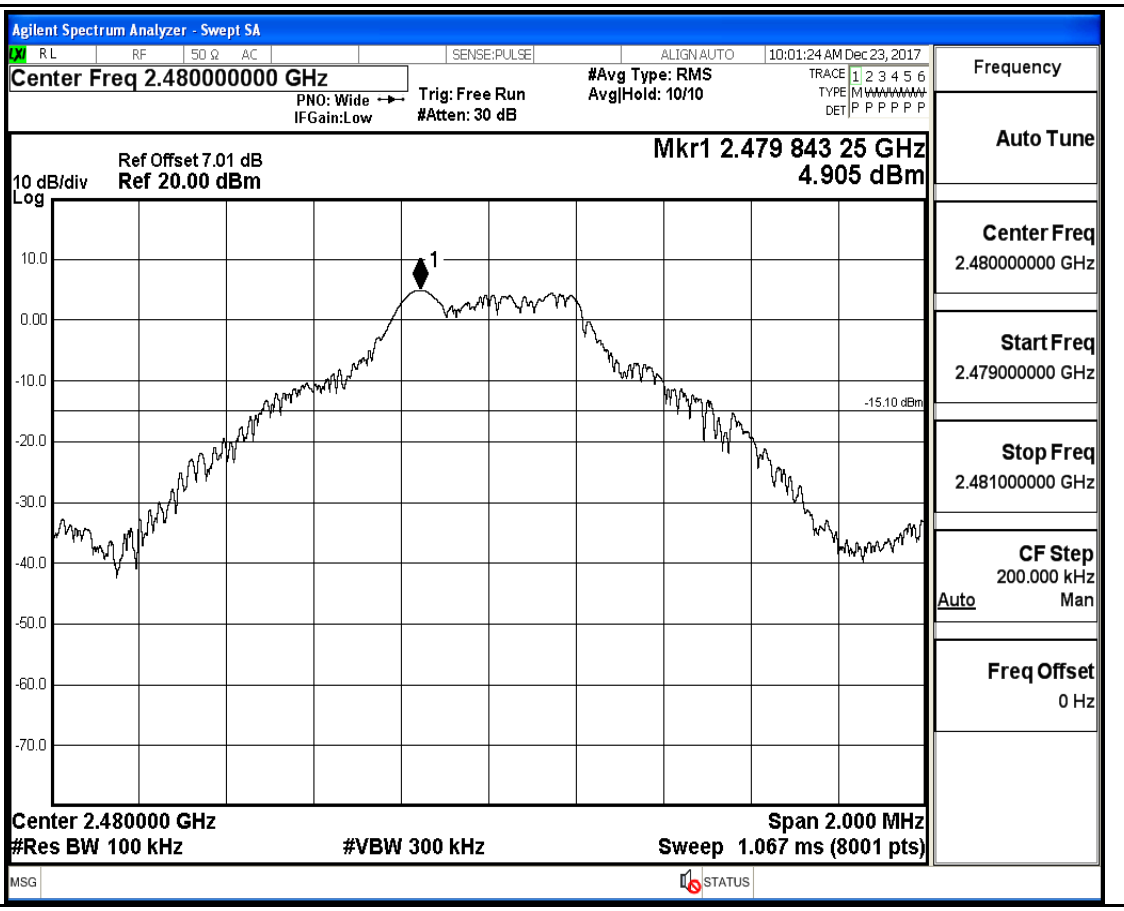


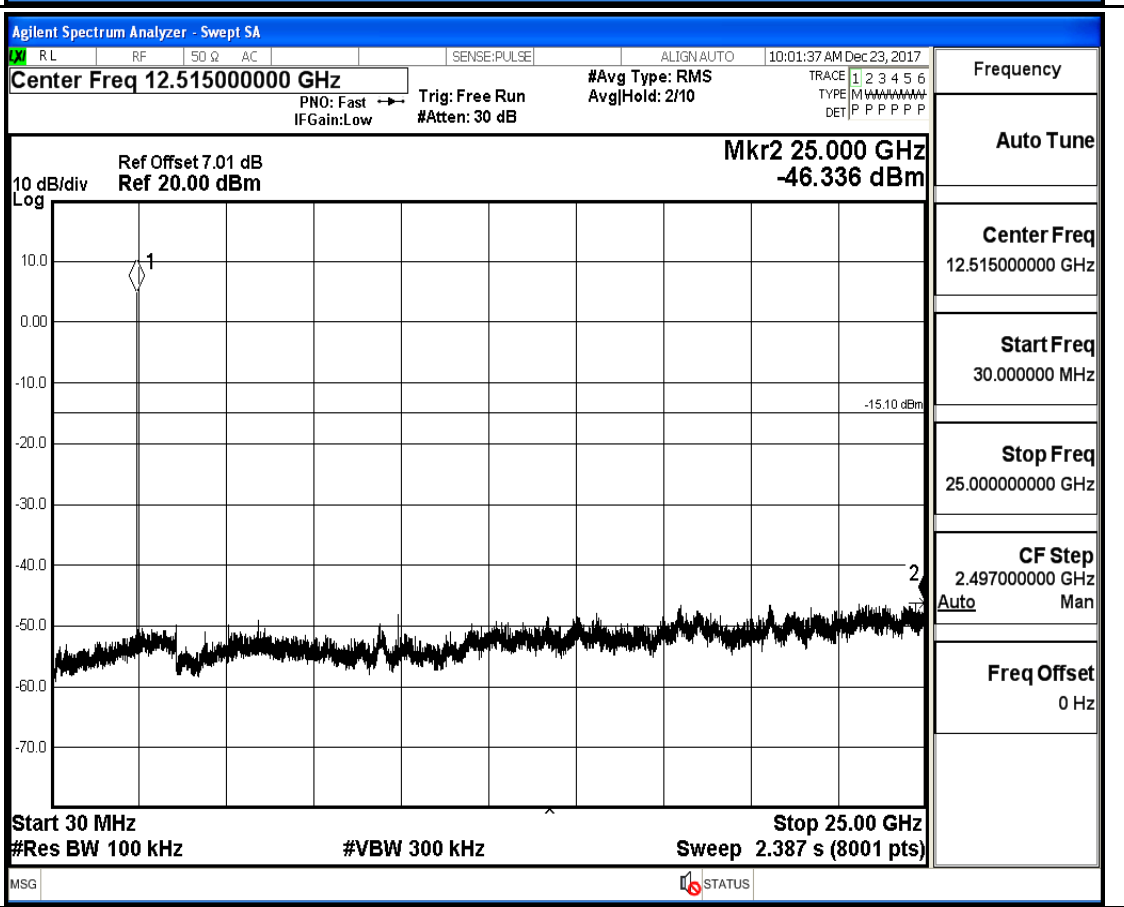
RF Conducted Spurious Emissions_DH5_2441



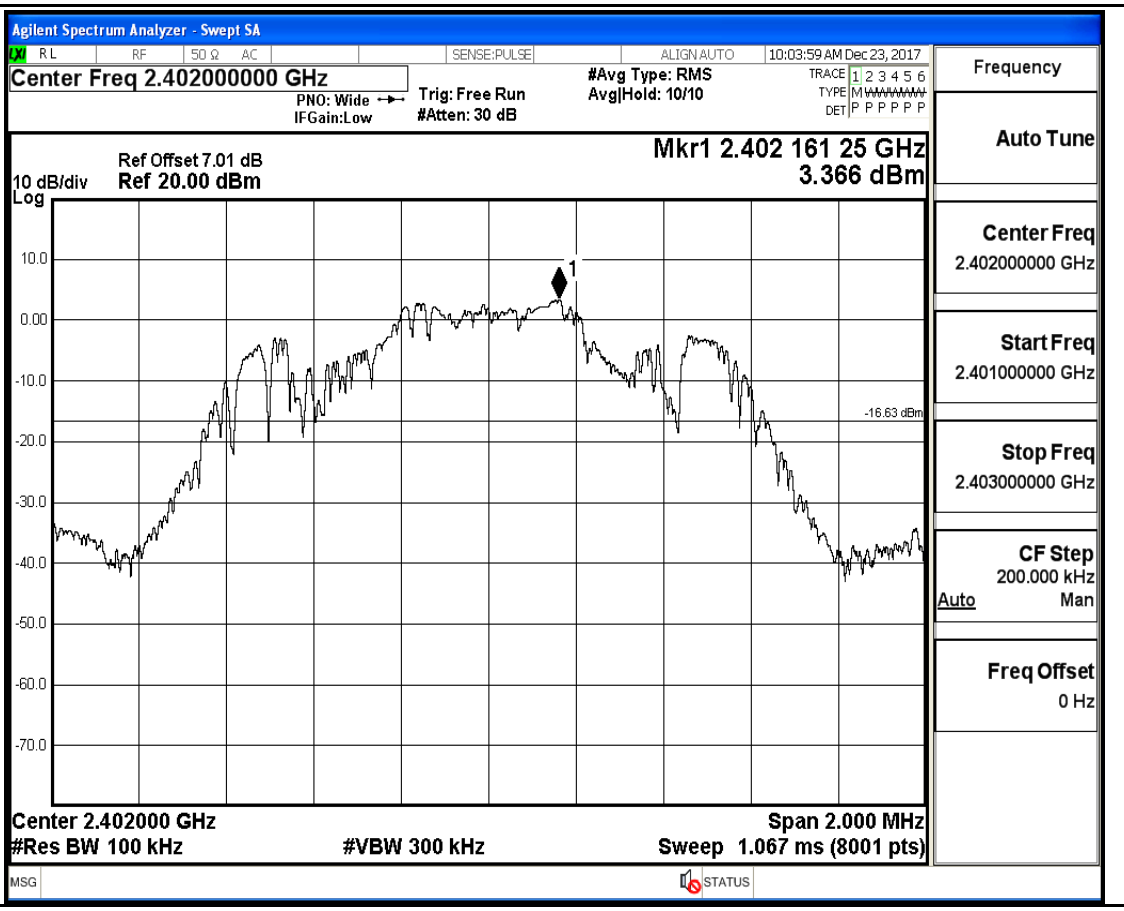


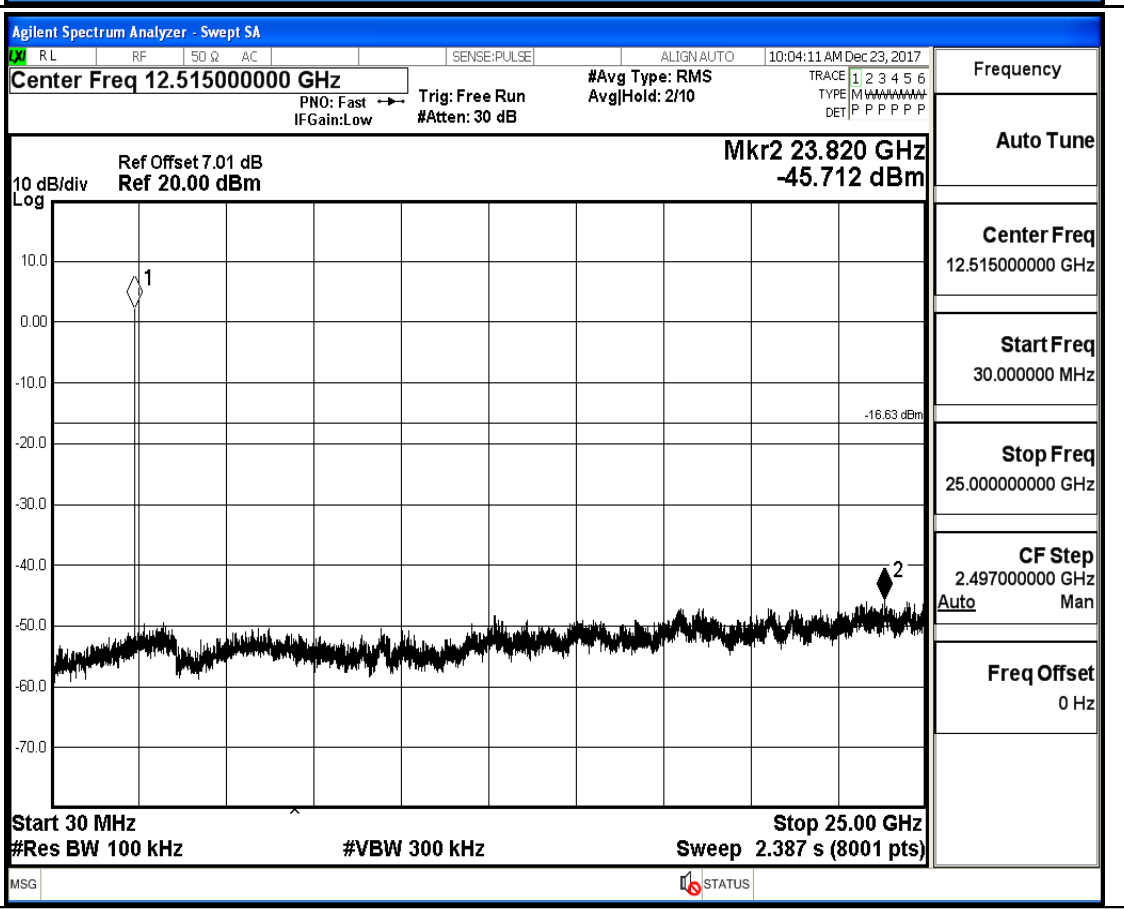
RF Conducted Spurious Emissions_DH5_2480



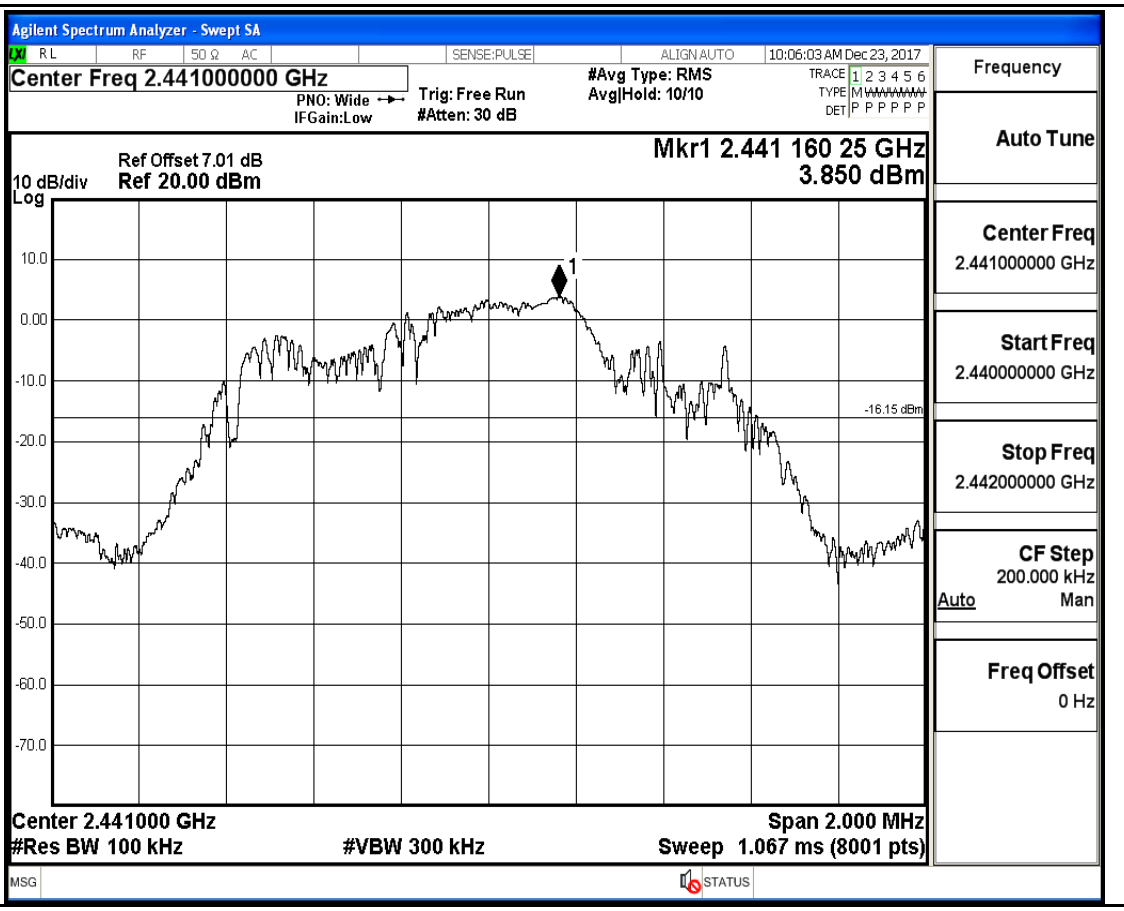


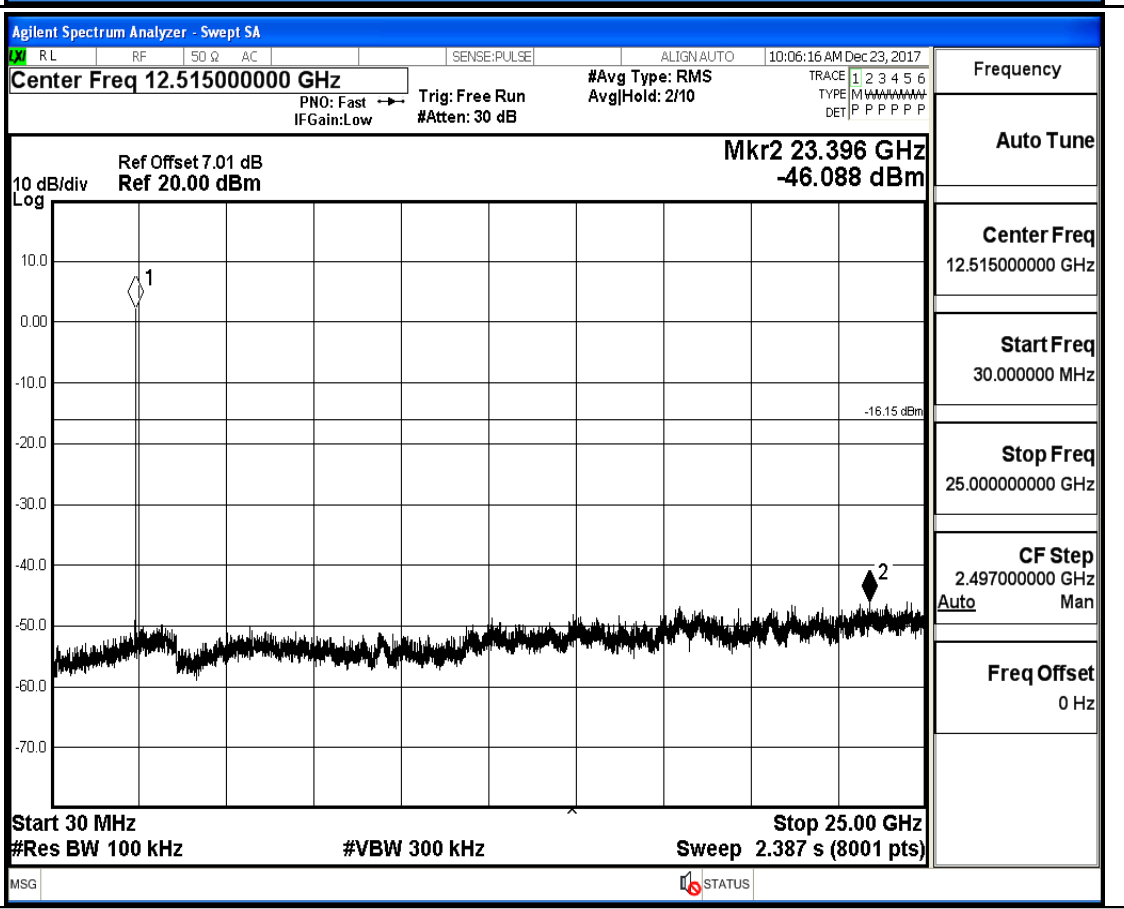
RF Conducted Spurious Emissions_2DH5_2402



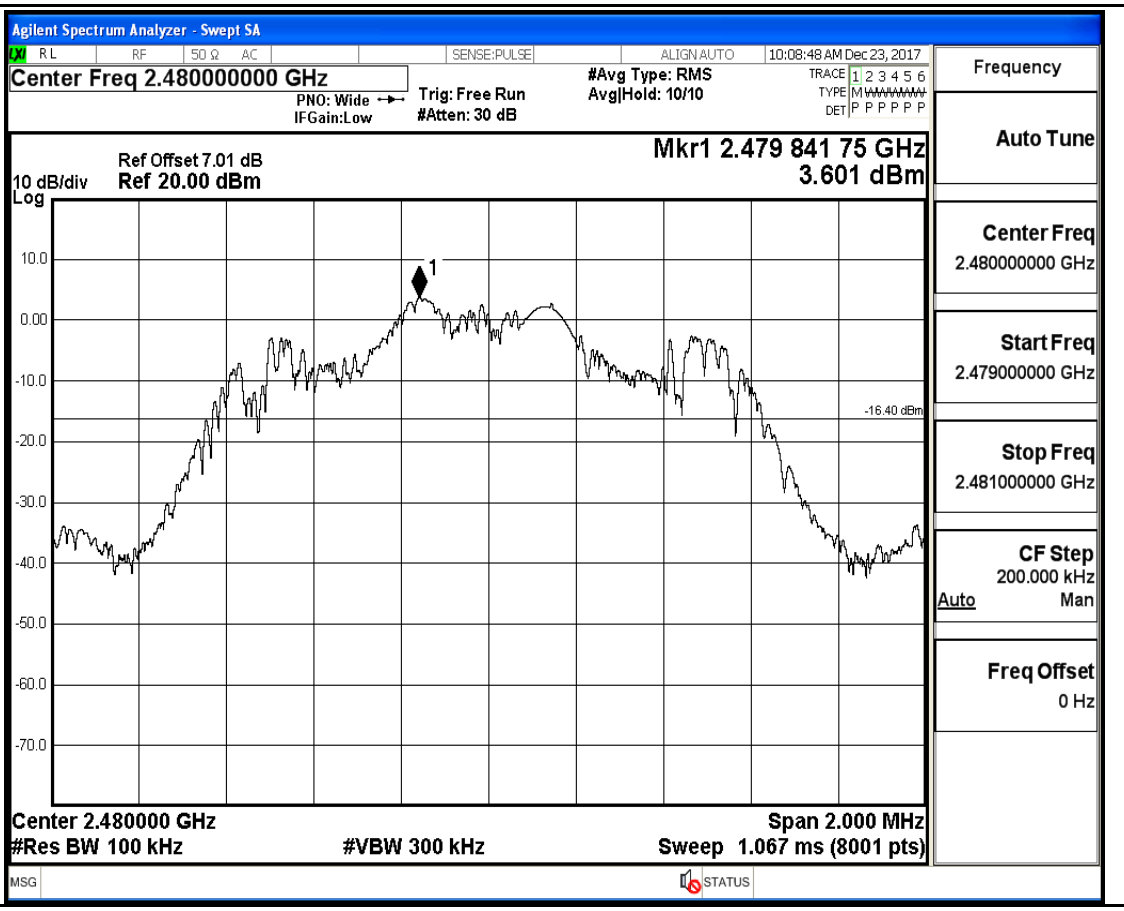


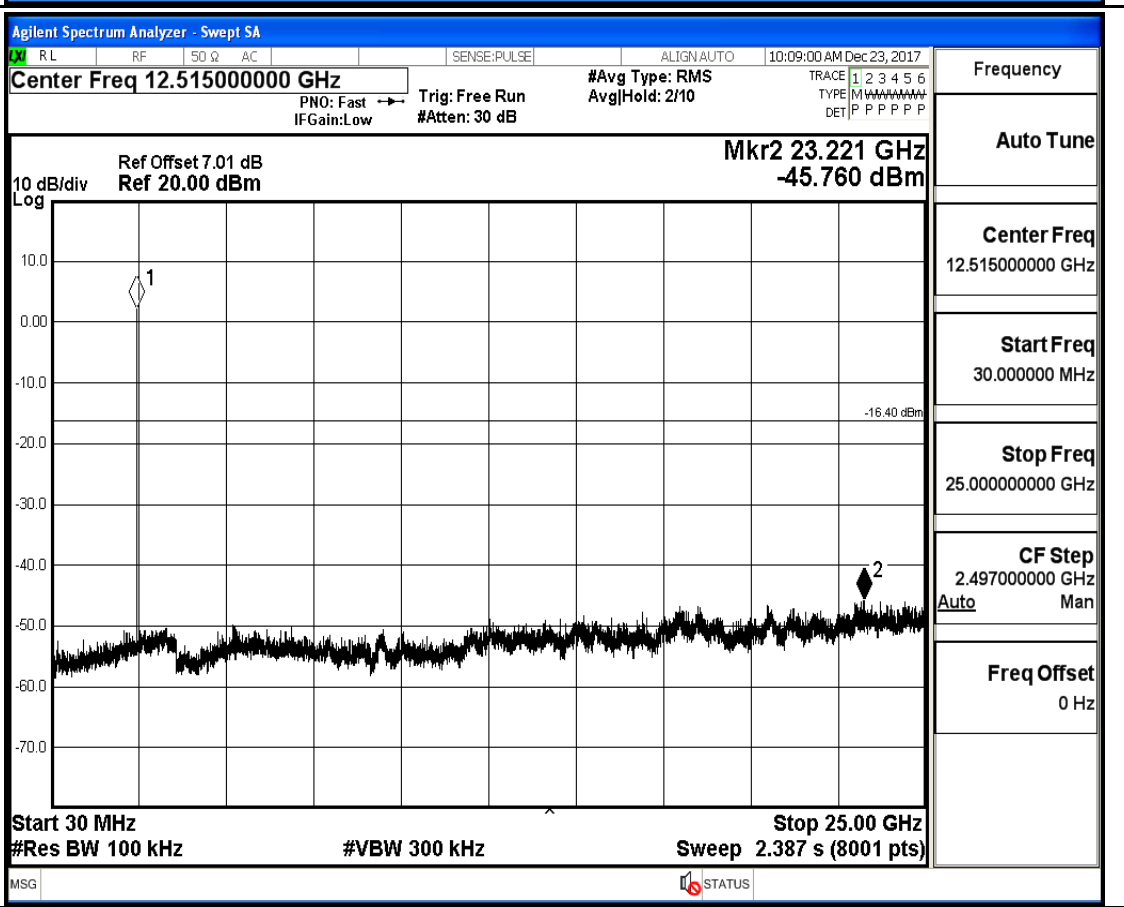
RF Conducted Spurious Emissions_2DH5_2441



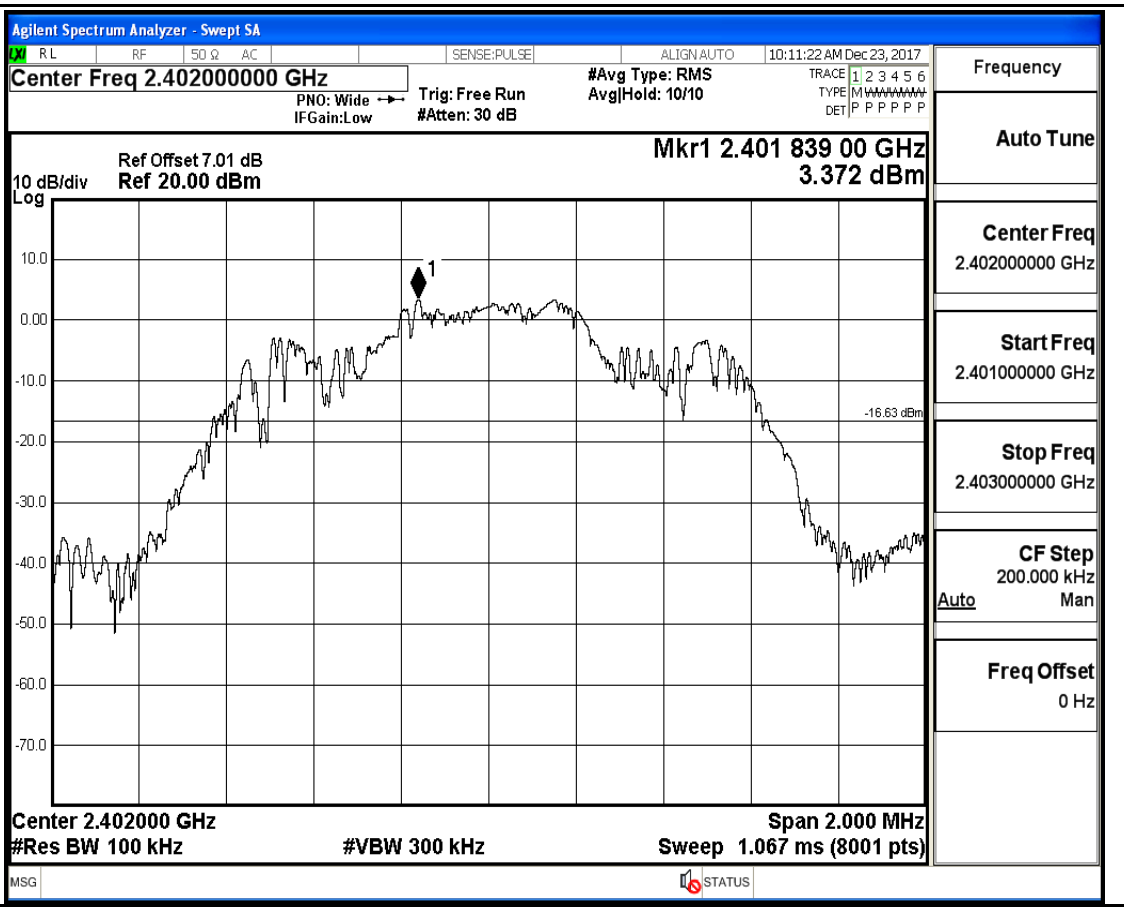


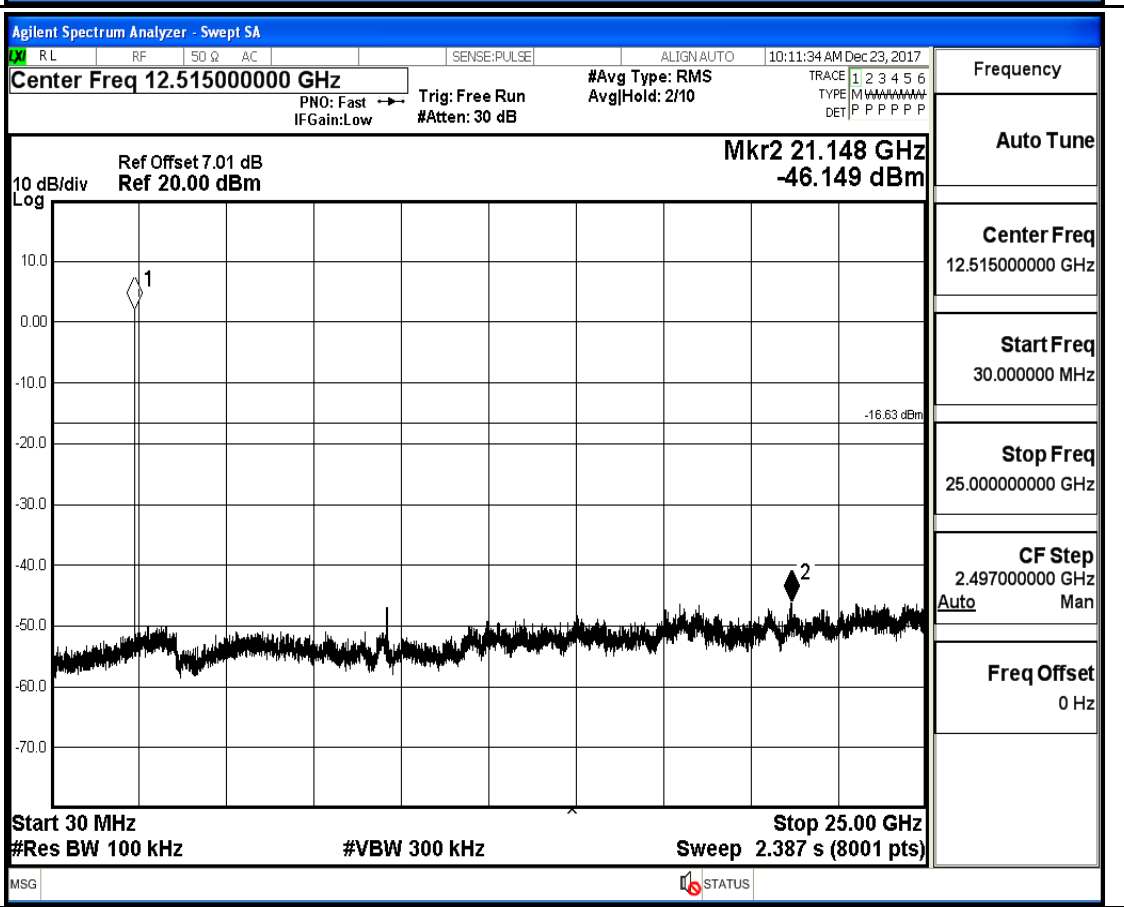
RF Conducted Spurious Emissions_2DH5_2480



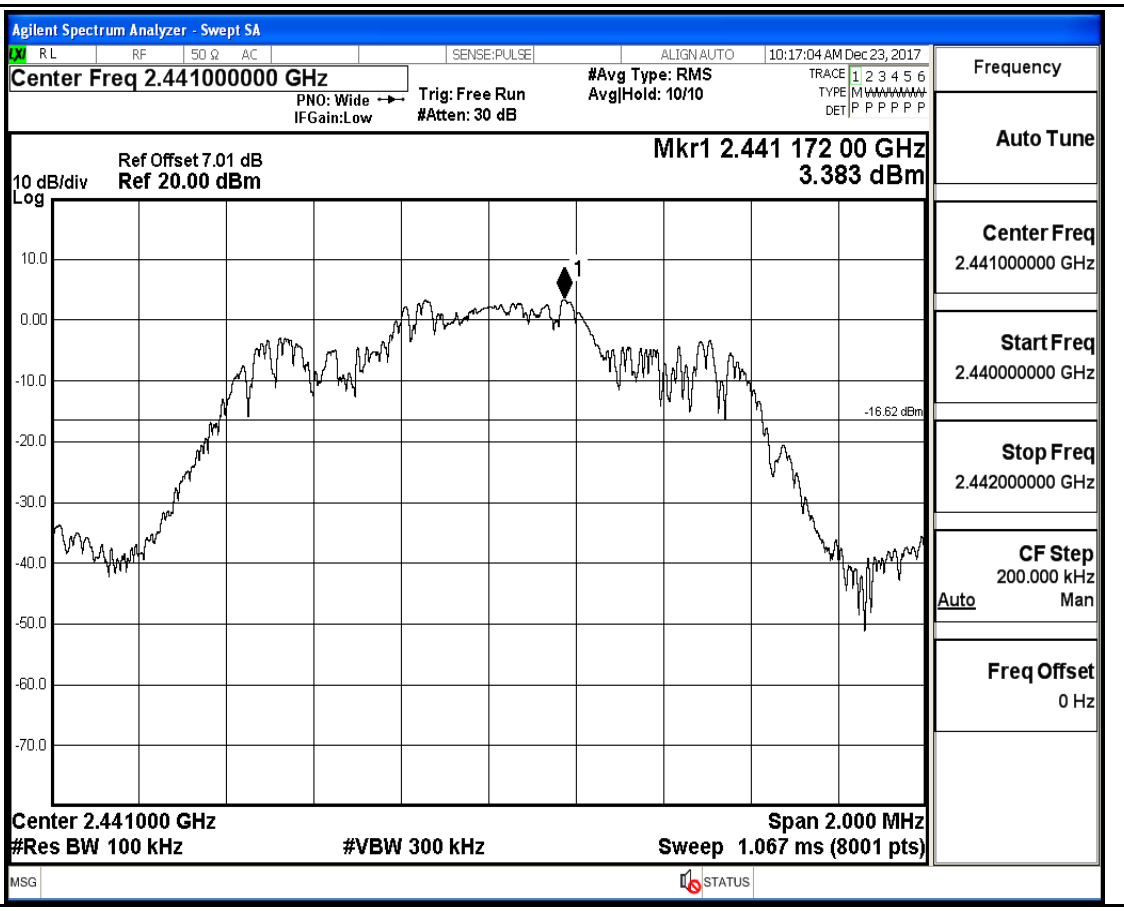


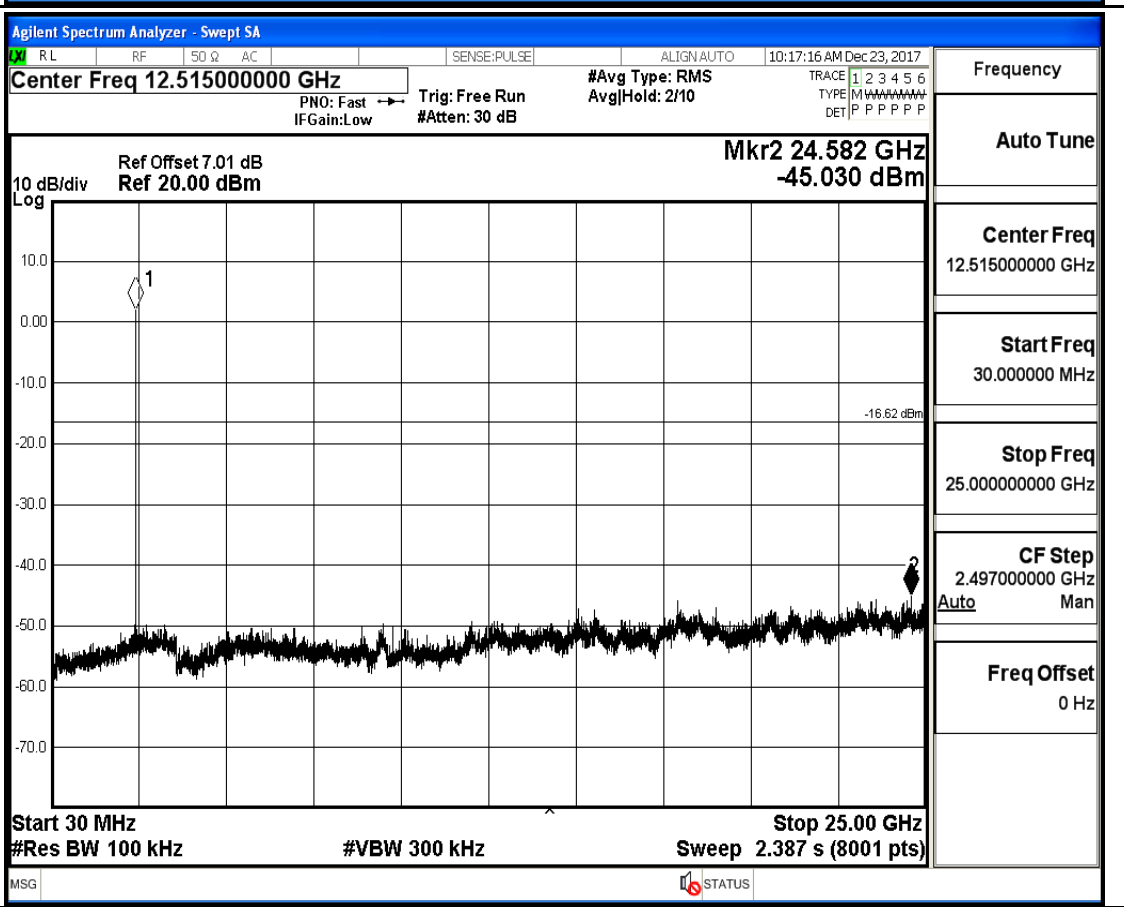
RF Conducted Spurious Emissions_3DH5_2402



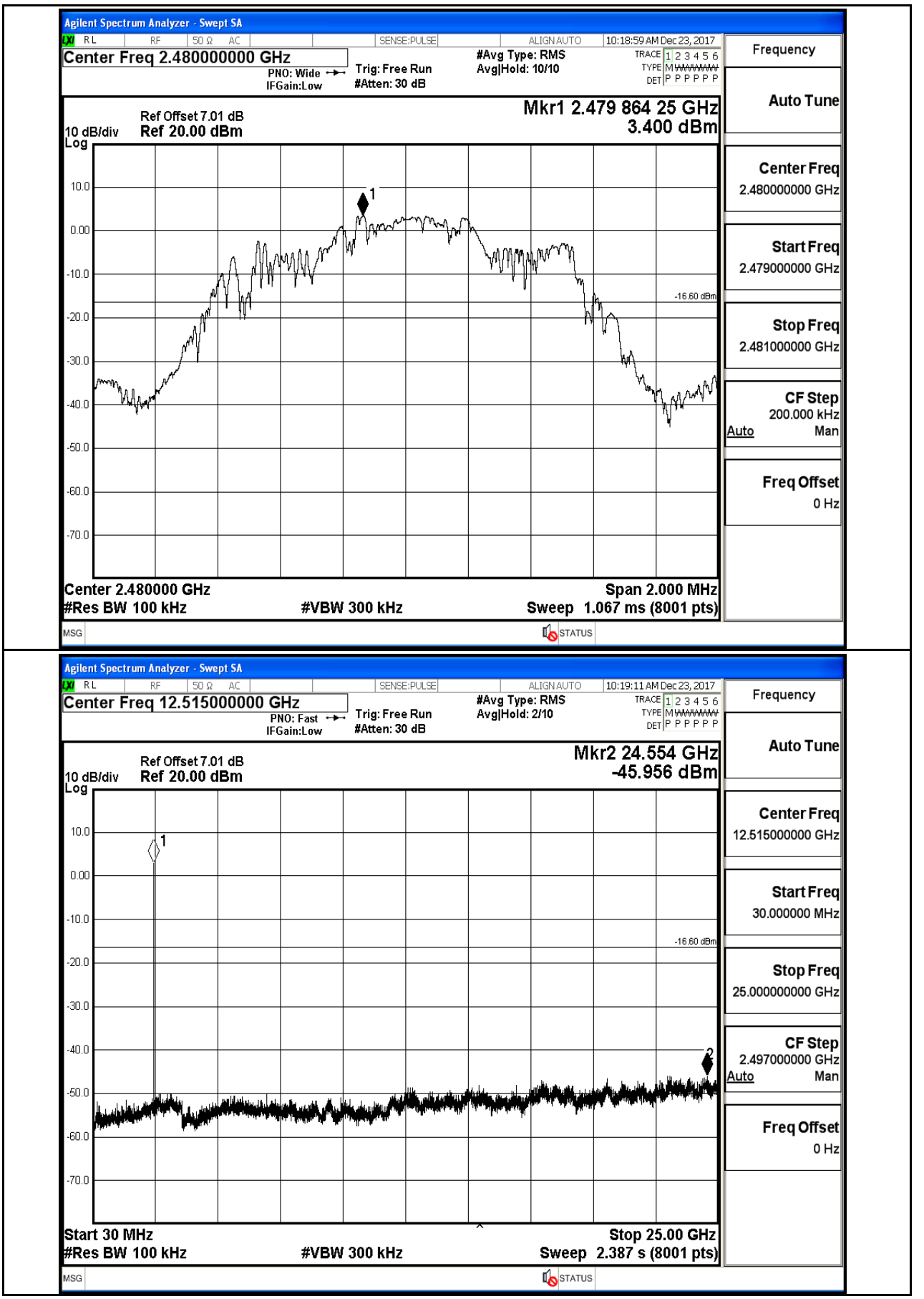


RF Conducted Spurious Emissions_3DH5_2441





RF Conducted Spurious Emissions_3DH5_2480

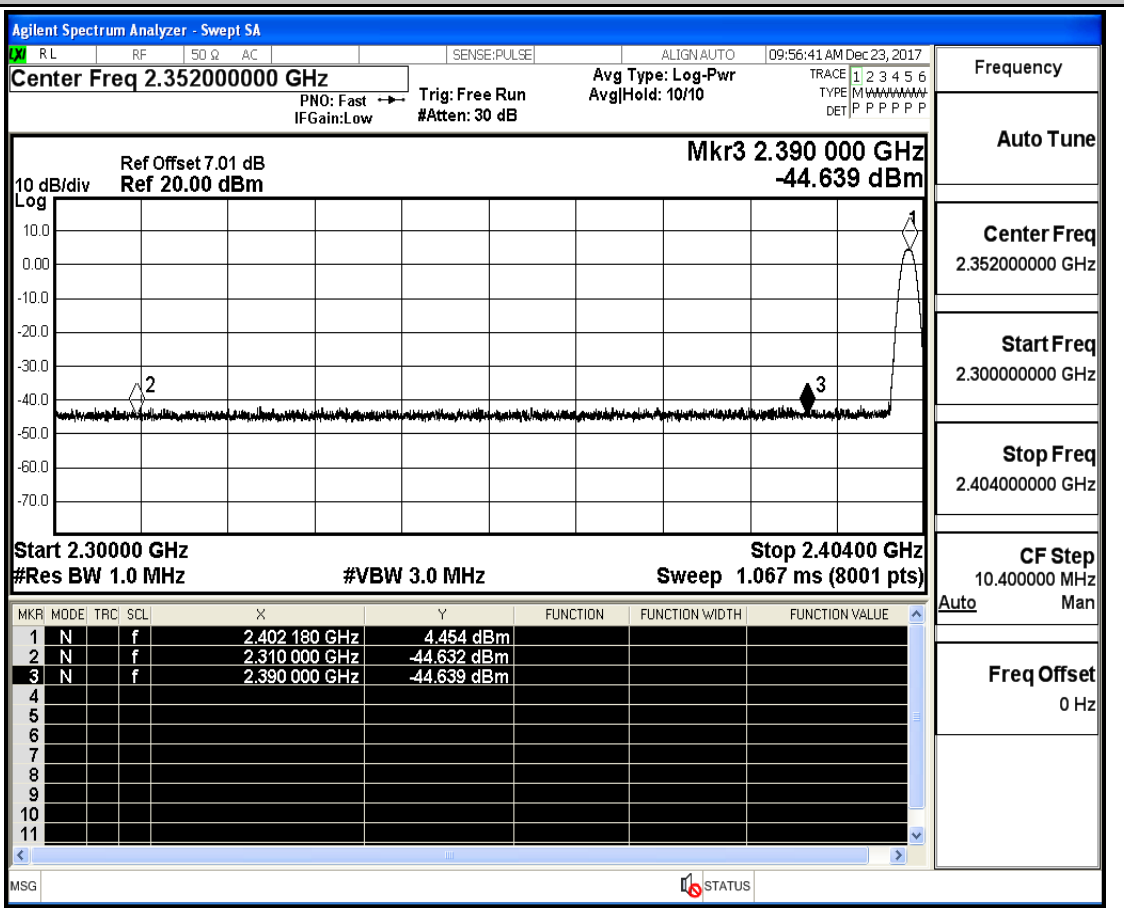


9.Restrict-band band-edge measurements

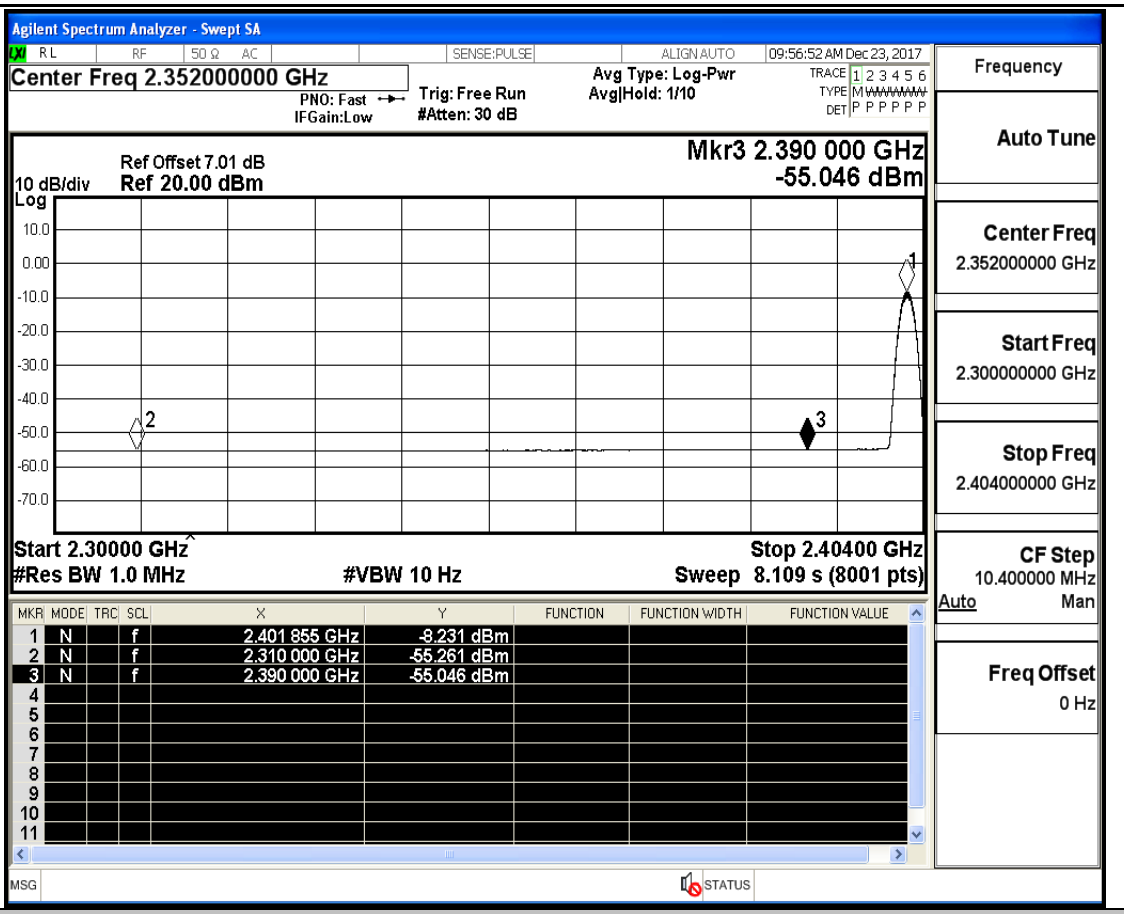
Test	Hopping	Freq.	Power	Gain	Ground	E	Detector	Limit	Verdict

Mode			[dBm]		Factor	[dBuV/m]		[dBuV/m]	
DH5	On	2310.0	-44.63	2	0	52.63	PEAK	74	PASS
DH5	On	2310.0	-55.26	2	0	42.00	AV	54	PASS
DH5	On	2390.0	-44.64	2	0	52.62	PEAK	74	PASS
DH5	On	2390.0	-55.05	2	0	42.21	AV	54	PASS
DH5	On	2483.5	-43.88	2	0	53.38	PEAK	74	PASS
DH5	On	2483.5	-54.60	2	0	42.66	AV	54	PASS
DH5	On	2500.0	-44.68	2	0	52.57	PEAK	74	PASS
DH5	On	2500.0	-54.66	2	0	42.60	AV	54	PASS
2DH5	On	2310.0	-44.98	2	0	52.28	PEAK	74	PASS
2DH5	On	2310.0	-55.24	2	0	42.02	AV	54	PASS
2DH5	On	2390.0	-43.63	2	0	53.63	PEAK	74	PASS
2DH5	On	2390.0	-55.00	2	0	42.26	AV	54	PASS
2DH5	On	2483.5	-44.59	2	0	52.66	PEAK	74	PASS
2DH5	On	2483.5	-54.54	2	0	42.72	AV	54	PASS
2DH5	On	2500.0	-43.24	2	0	54.02	PEAK	74	PASS
2DH5	On	2500.0	-54.64	2	0	42.62	AV	54	PASS
3DH5	On	2310.0	-44.86	2	0	52.40	PEAK	74	PASS
3DH5	On	2310.0	-55.23	2	0	42.03	AV	54	PASS
3DH5	On	2390.0	-43.76	2	0	53.50	PEAK	74	PASS
3DH5	On	2390.0	-55.02	2	0	42.24	AV	54	PASS
3DH5	On	2483.5	-42.90	2	0	54.36	PEAK	74	PASS
3DH5	On	2483.5	-54.73	2	0	42.53	AV	54	PASS
3DH5	On	2500.0	-44.50	2	0	52.76	PEAK	74	PASS
3DH5	On	2500.0	-54.64	2	0	42.62	AV	54	PASS

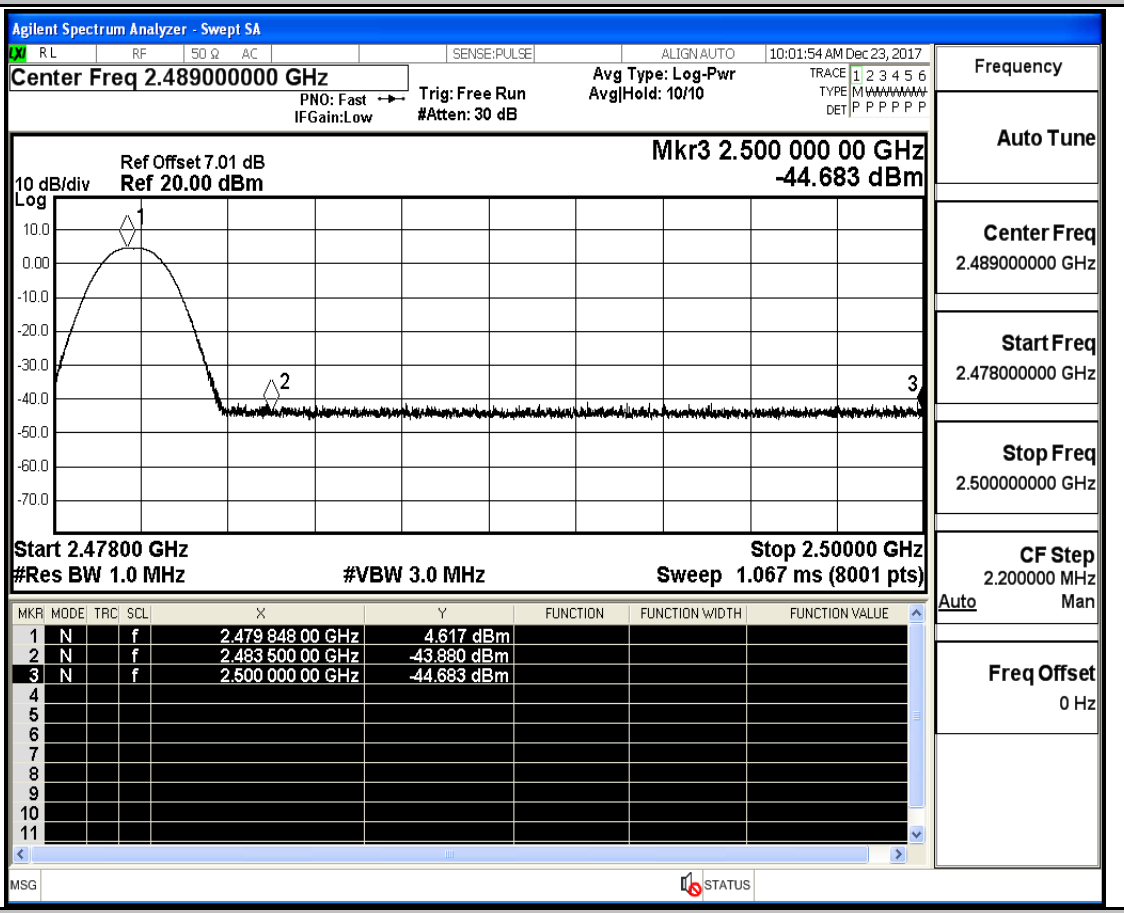
Restrict-band band-edge measurements_2402_PEAK



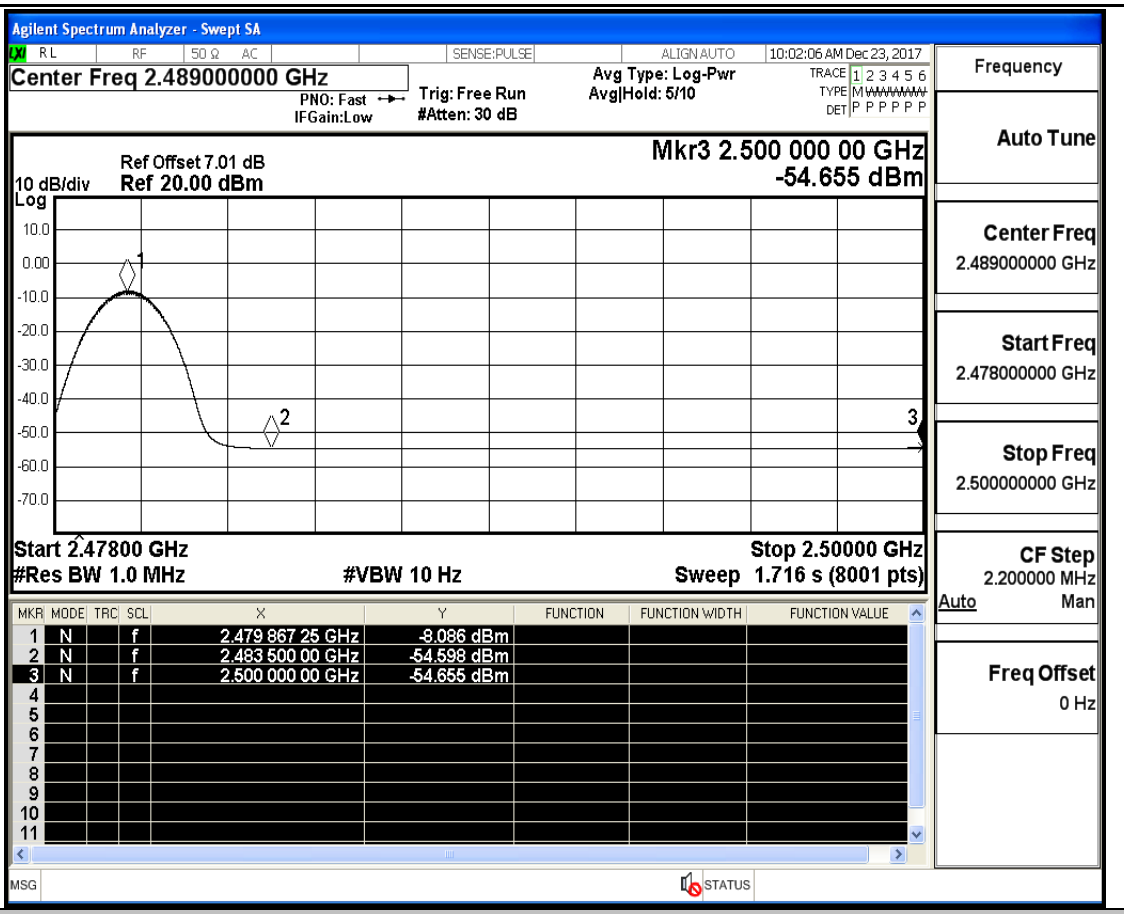
Restrict-band band-edge measurements_2402_AV



Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV



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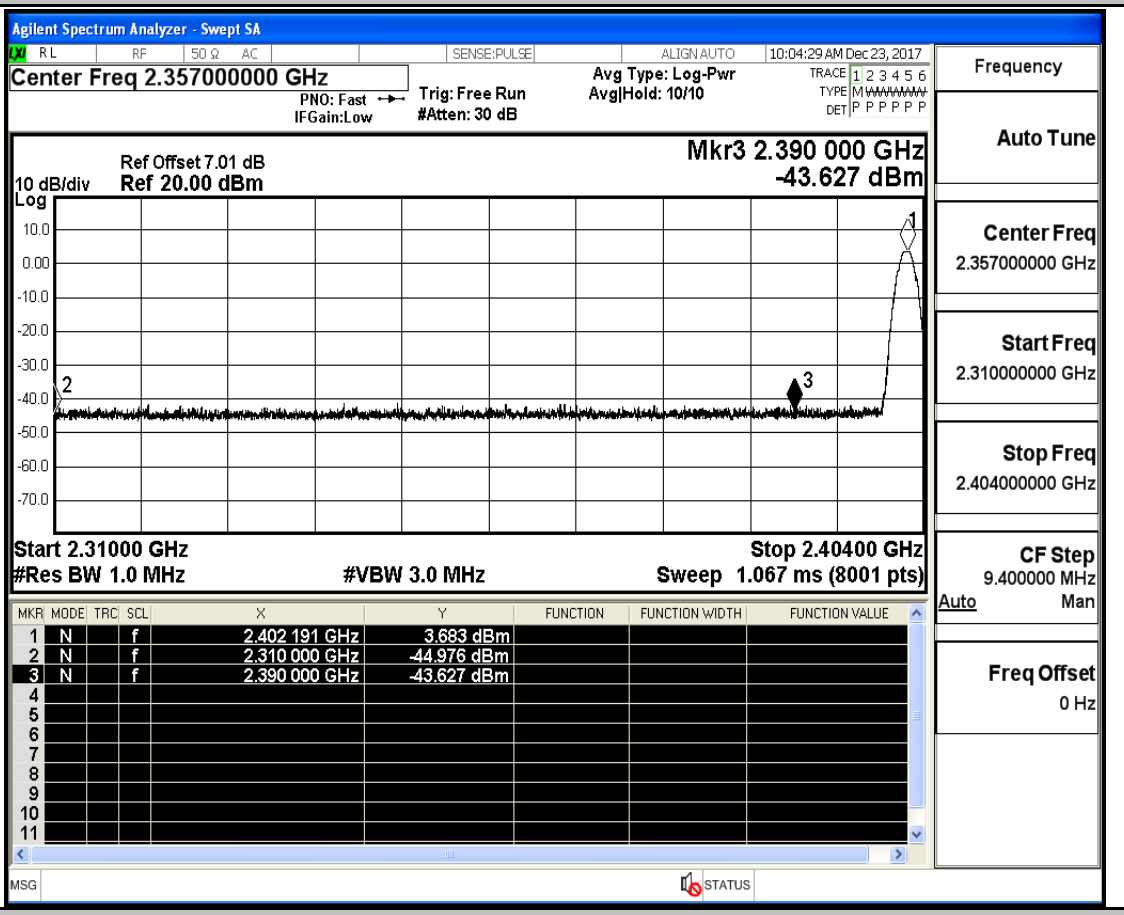
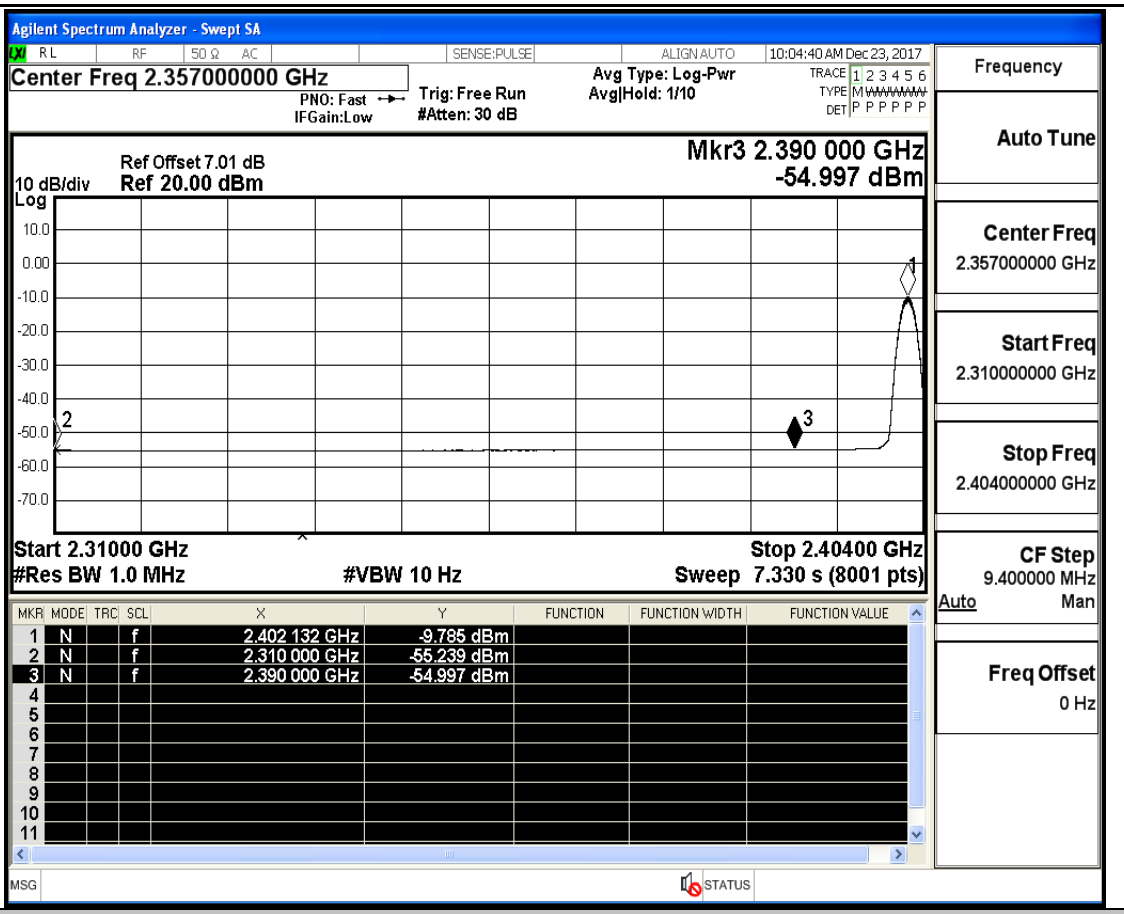
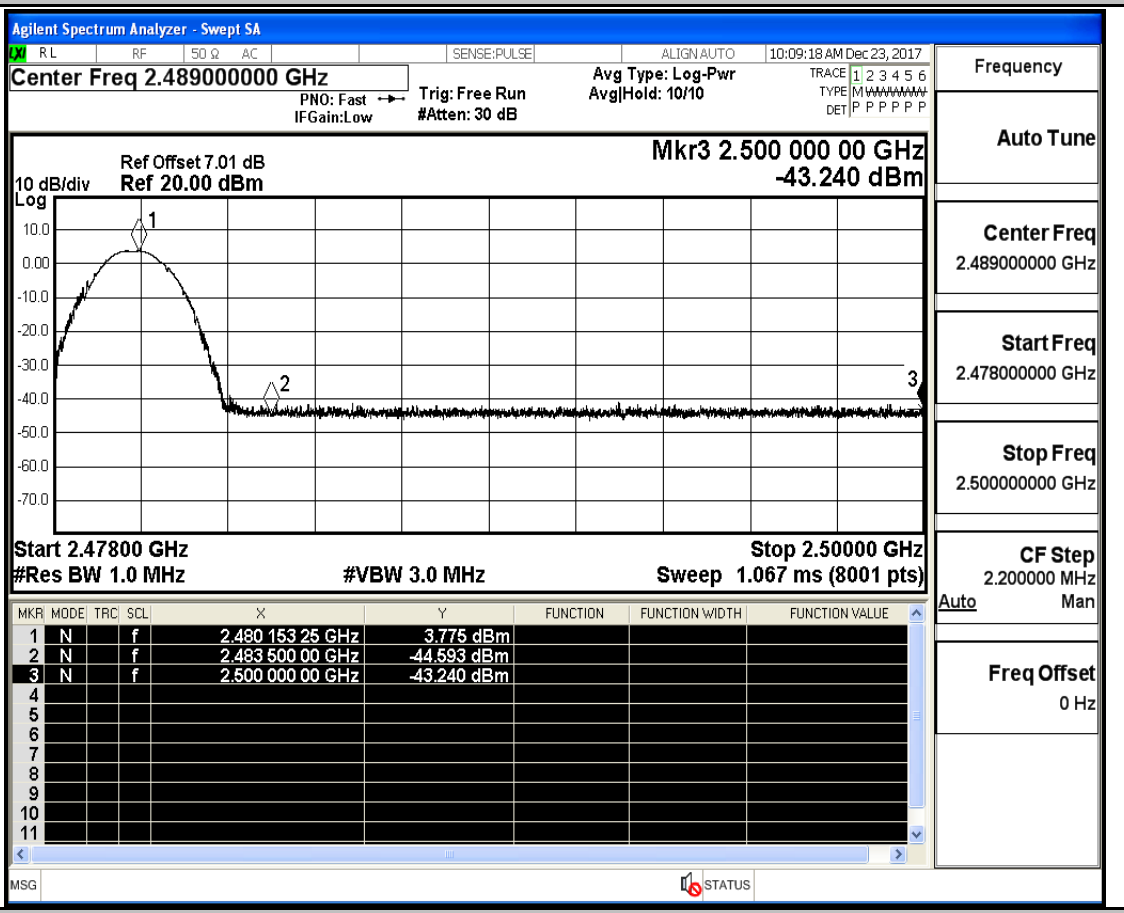


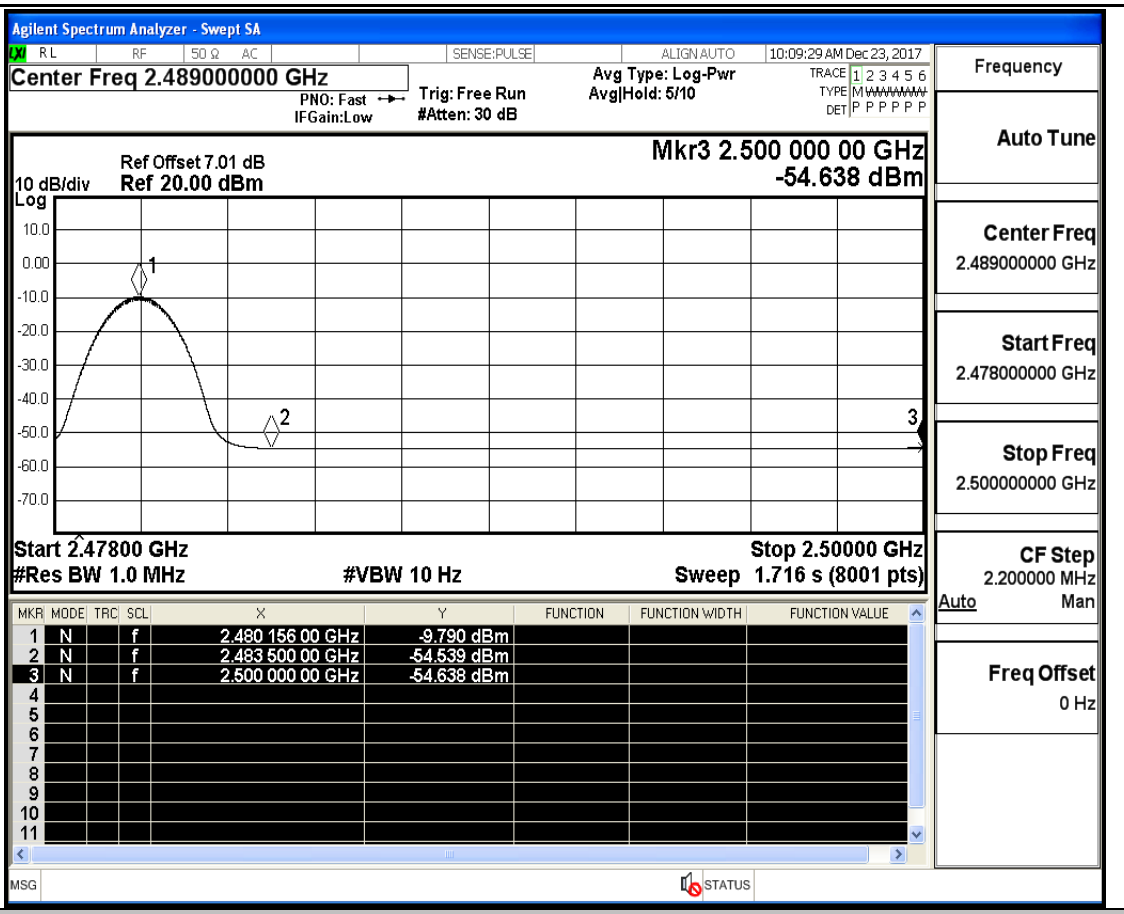
Restrict-band band-edge measurements_2402_AV



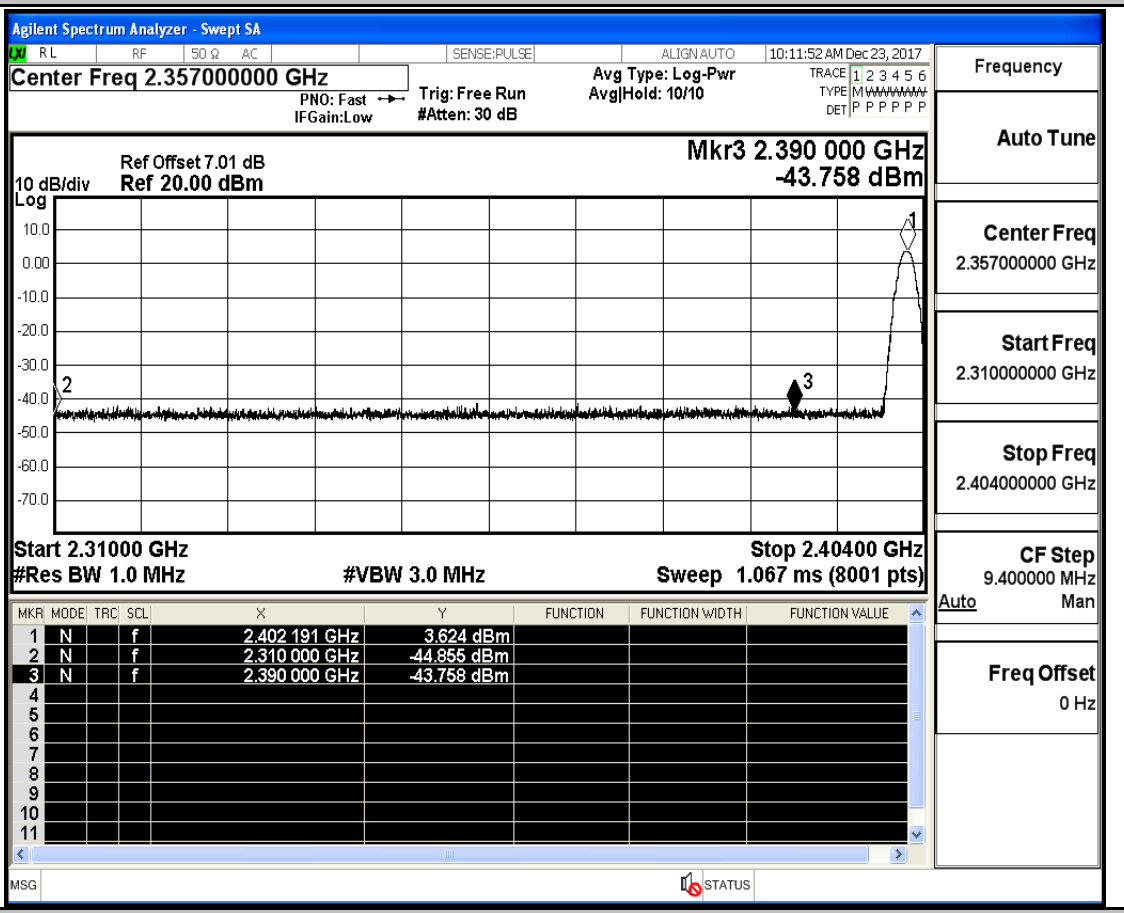
Restrict-band band-edge measurements_2480_PEAK



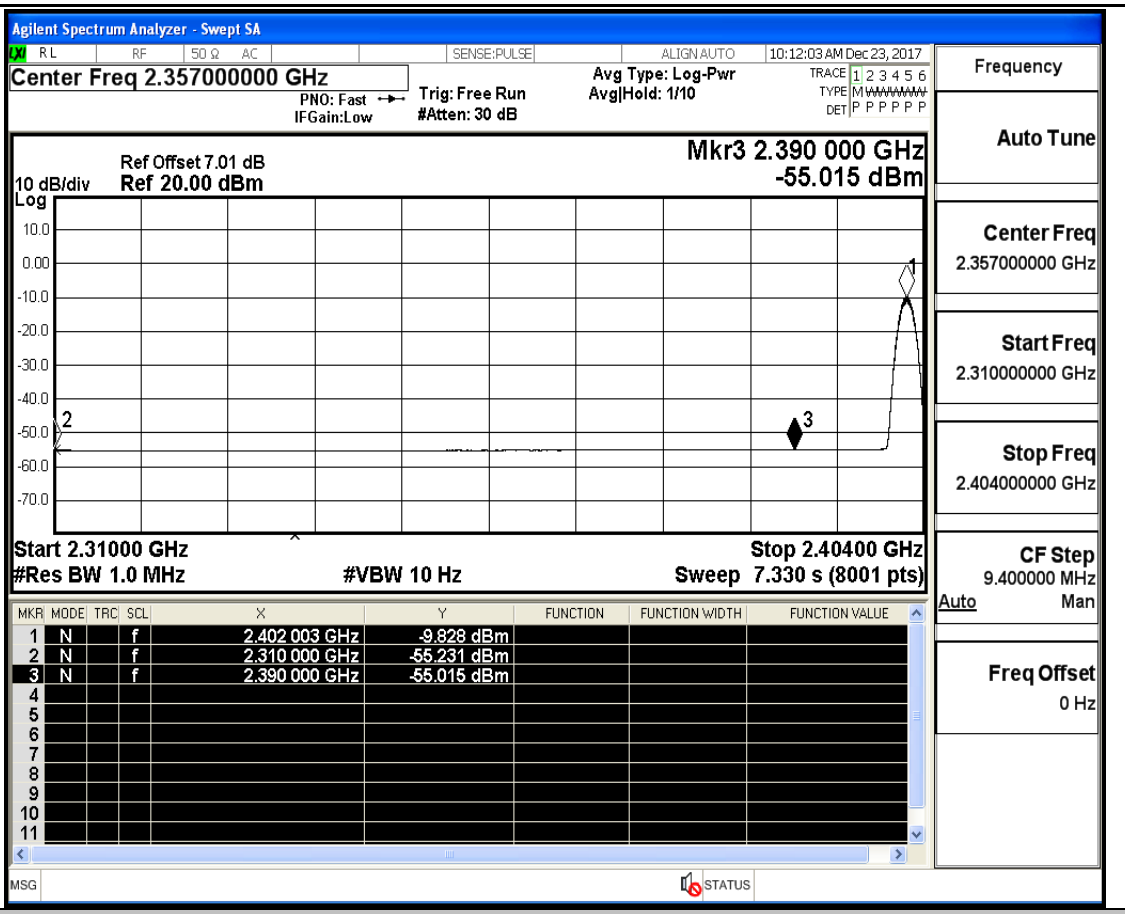
Restrict-band band-edge measurements_2480_AV



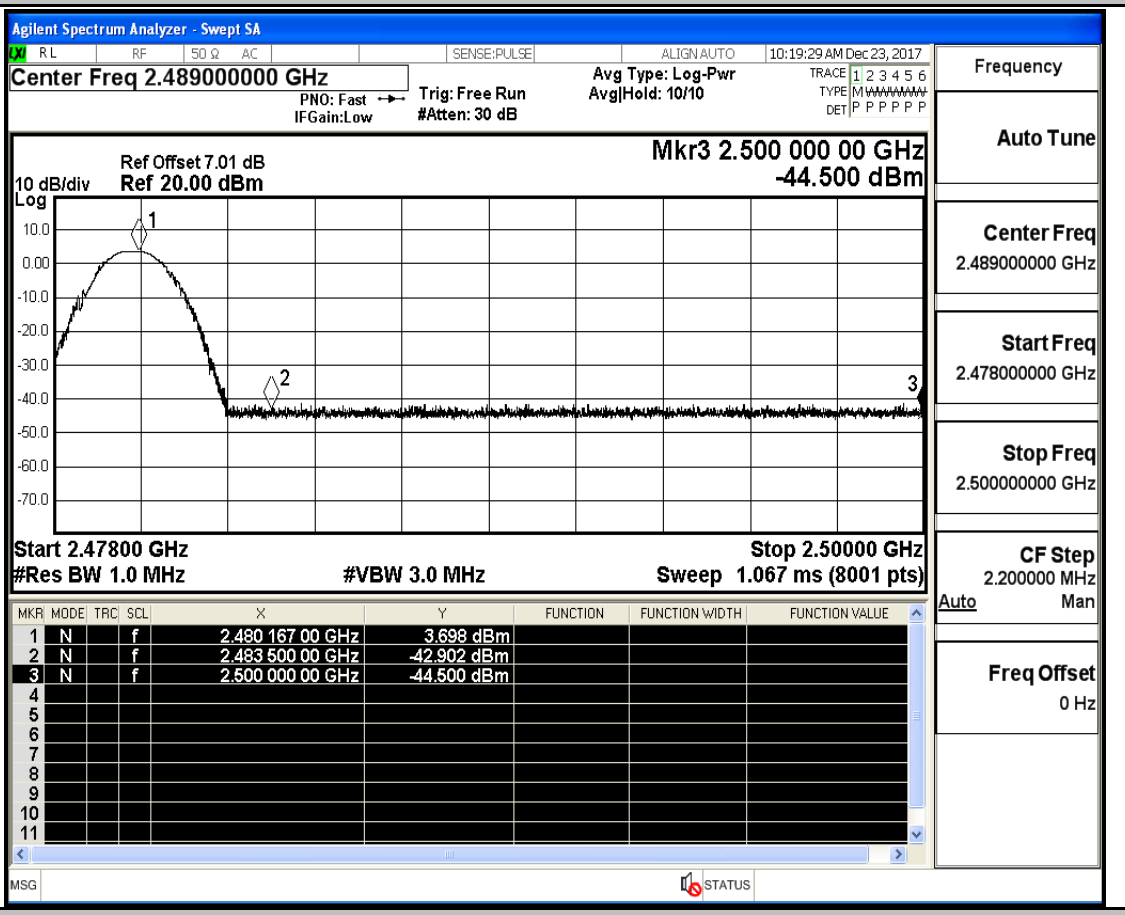
Restrict-band band-edge measurements_2402_PEAK



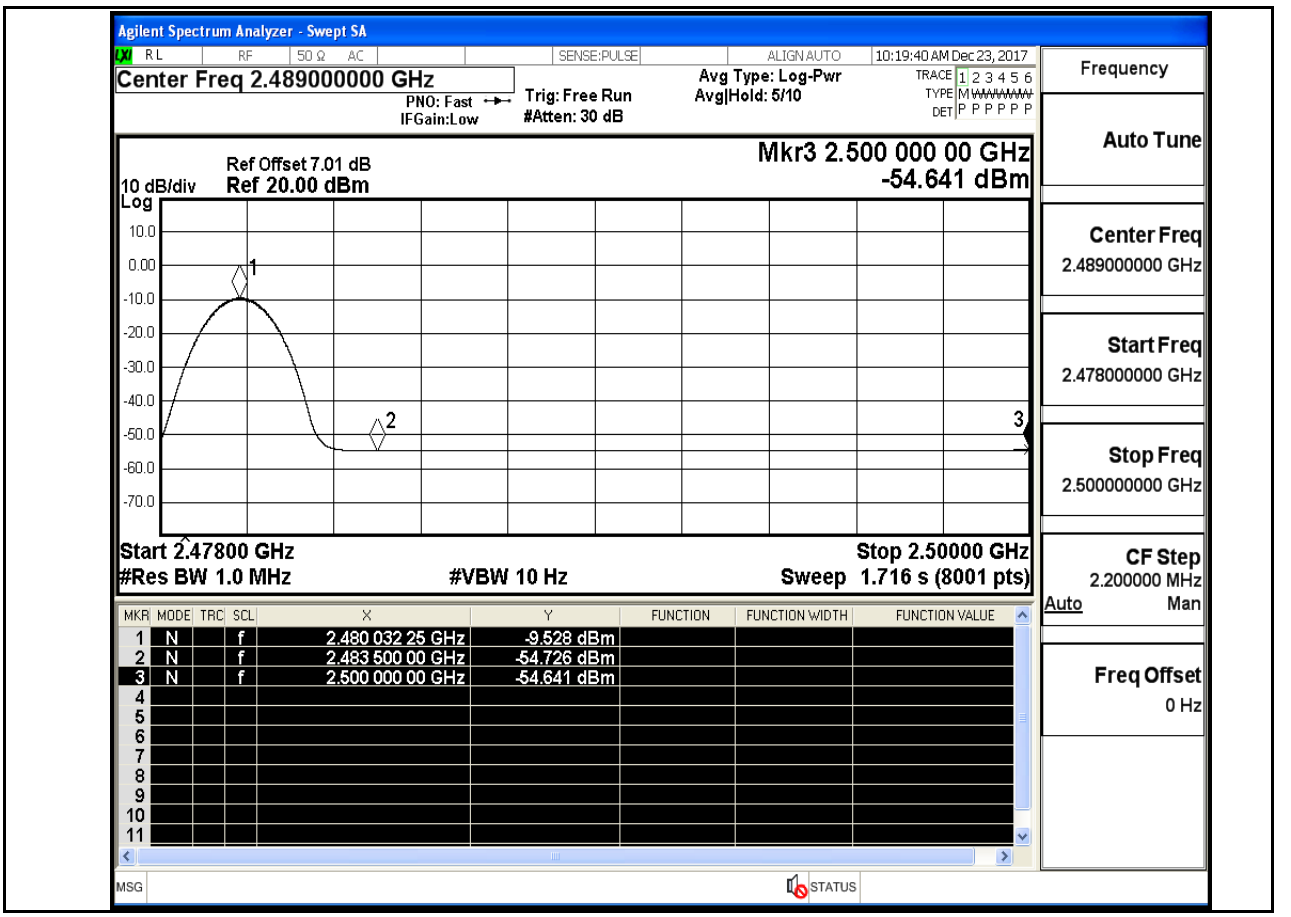
Restrict-band band-edge measurements_2402_AV



Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
10:19:40 AM Dec 23, 2017
Center Freq 2.489000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 5/10
TRACE 1 2 3 4 5 6
TYPE M WWWWWW
DET P P P P P
Ref Offset 7.01 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr3 2.500 000 00 GHz
-54.641 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Start 2.47800 GHz
#Res BW 1.0 MHz
#VBW 10 Hz
Stop 2.50000 GHz
Sweep 1.716 s (8001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N f 2.480 032 25 GHz -9.528 dBm
2 N f 2.483 500 00 GHz -54.726 dBm
3 N f 2.500 000 00 GHz -54.641 dBm
MSG
STATUS
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