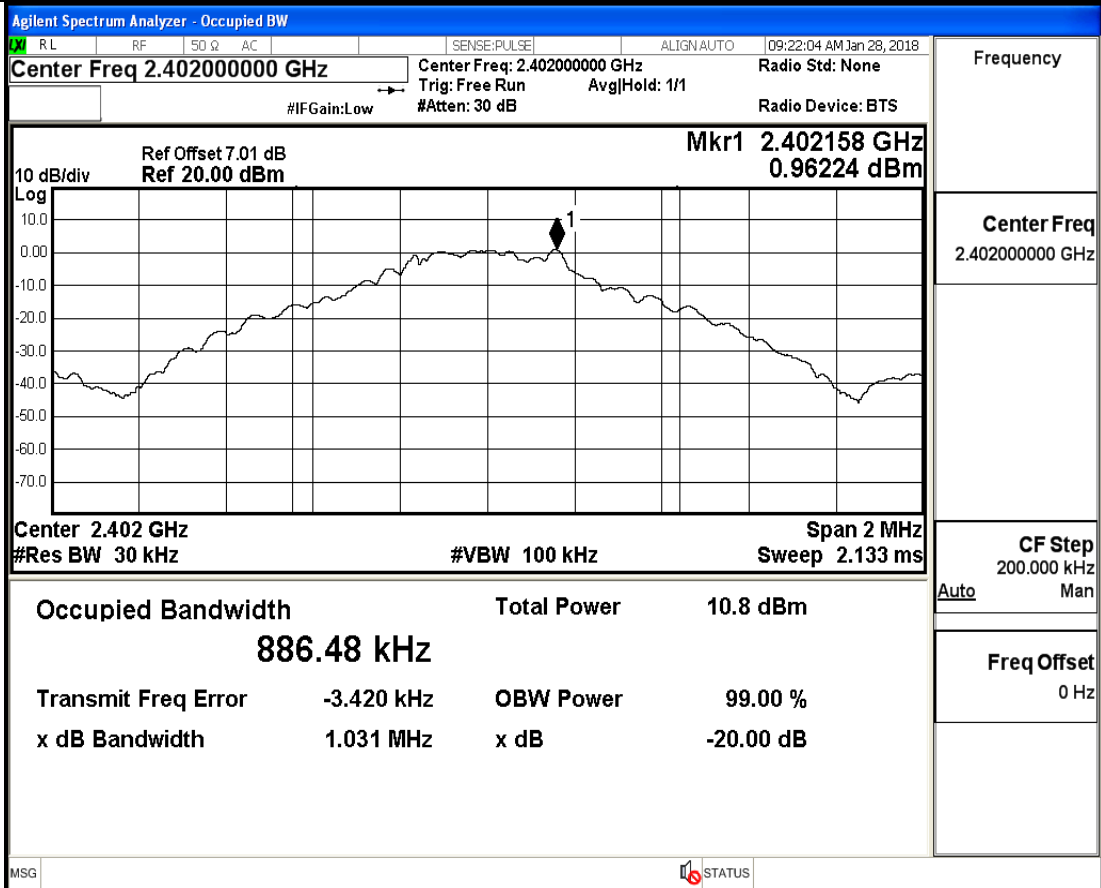


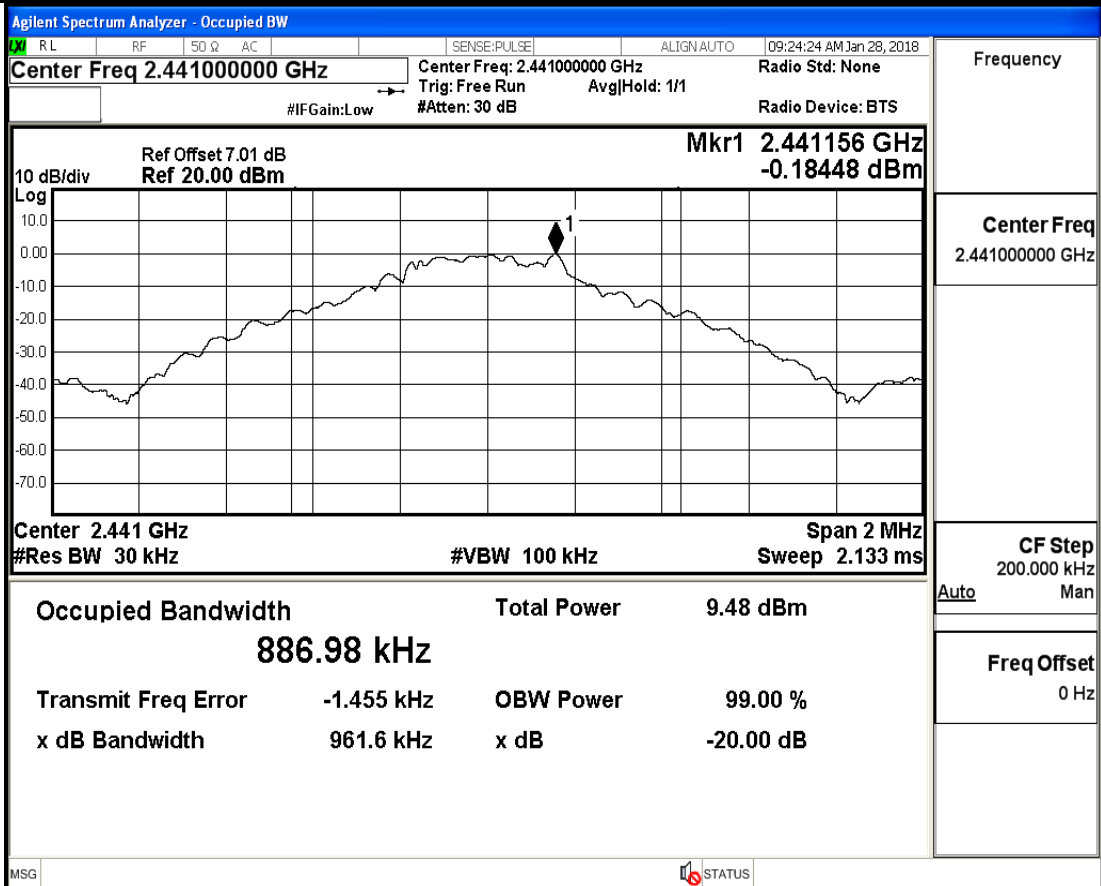
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	1.031	---	PASS
DH5	2441	0.9616	---	PASS
DH5	2480	1.484	---	PASS
2DH5	2402	1.291	---	PASS
2DH5	2441	1.293	---	PASS
2DH5	2480	1.289	---	PASS
3DH5	2402	1.296	---	PASS
3DH5	2441	1.299	---	PASS
3DH5	2480	1.298	---	PASS

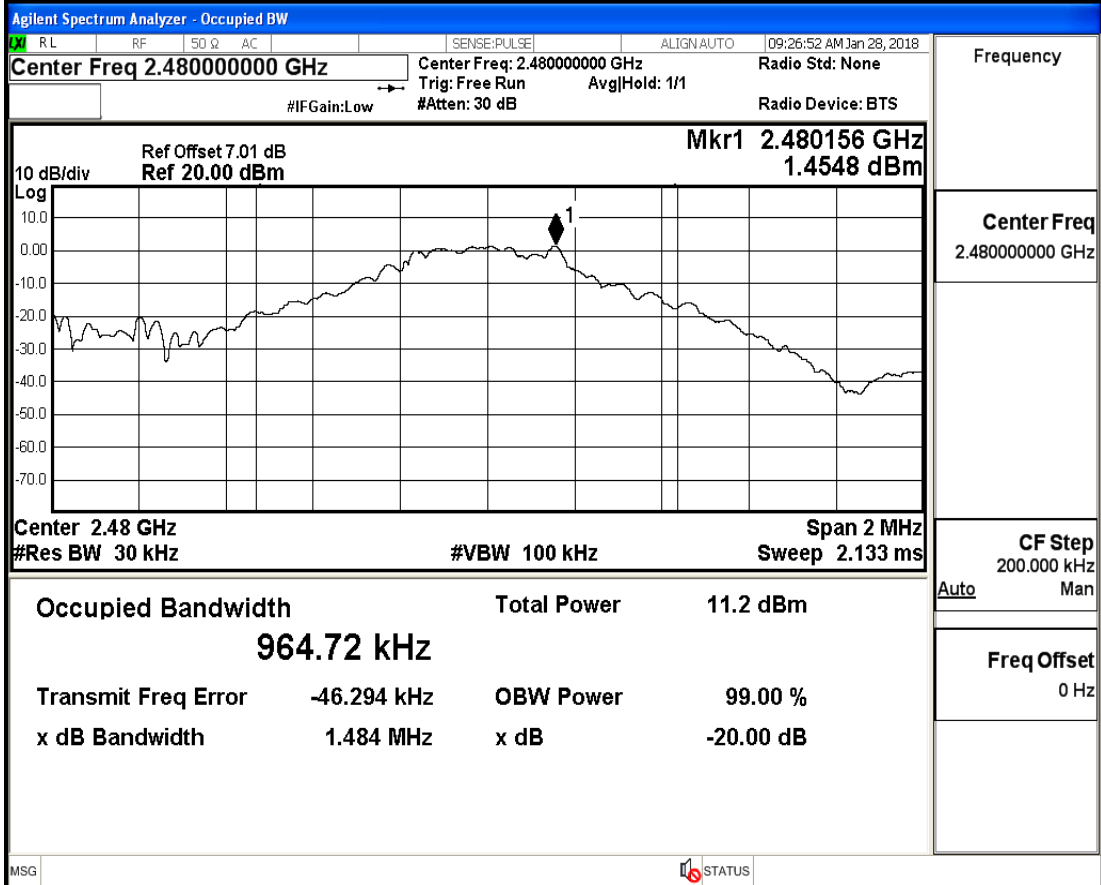
20 dB Bandwidth_DH5_2402



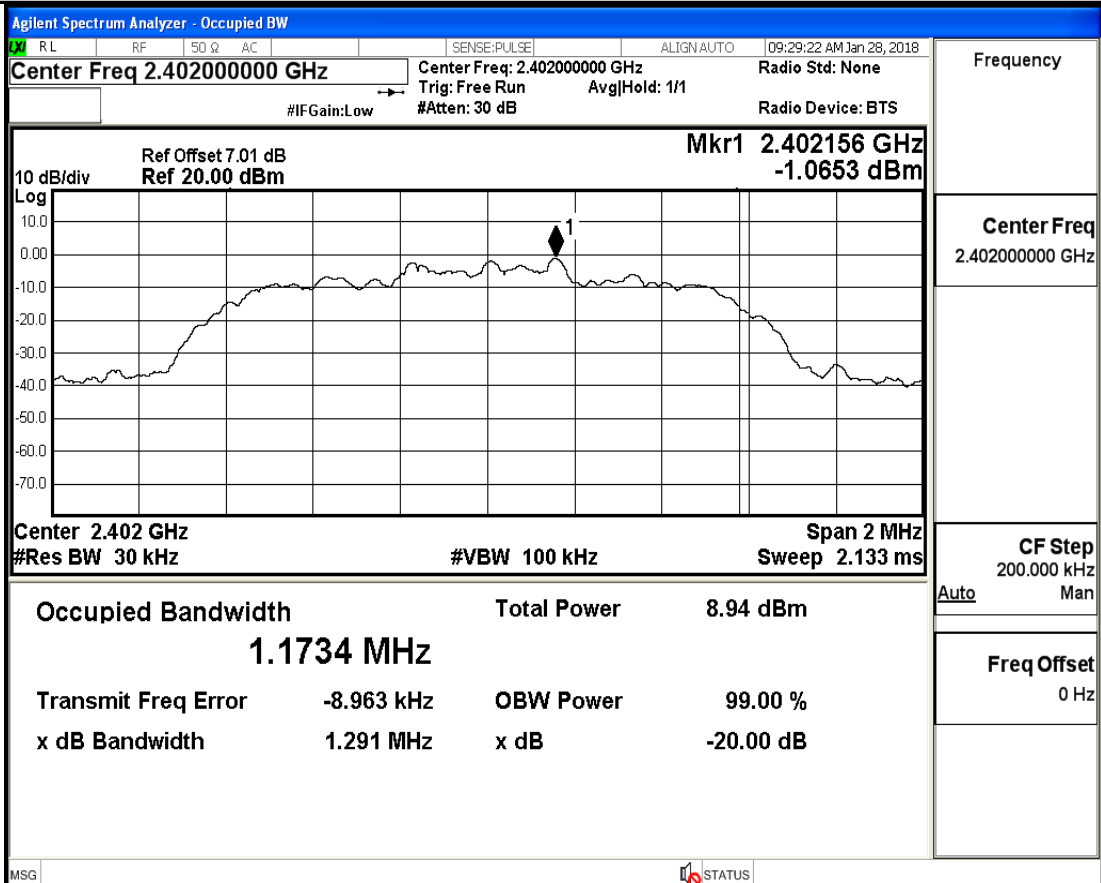
20 dB Bandwidth_DH5_2441



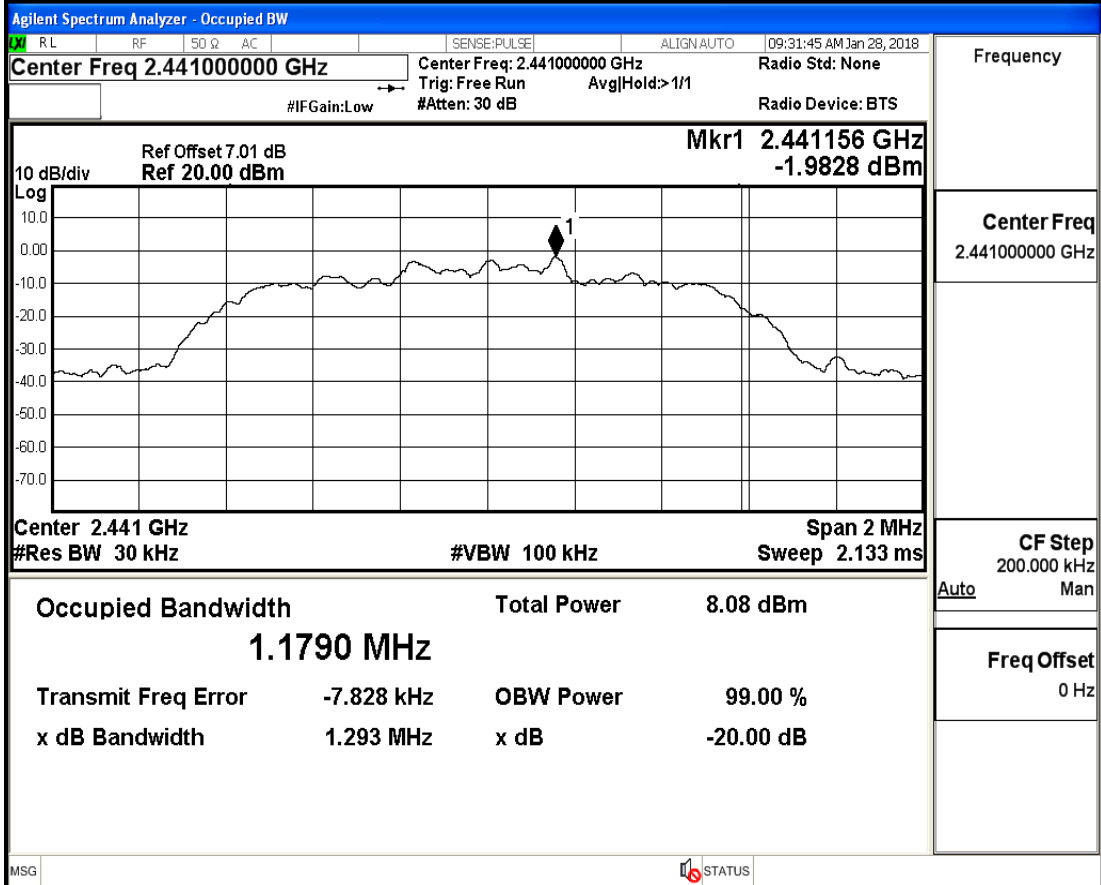
20 dB Bandwidth_DH5_2480



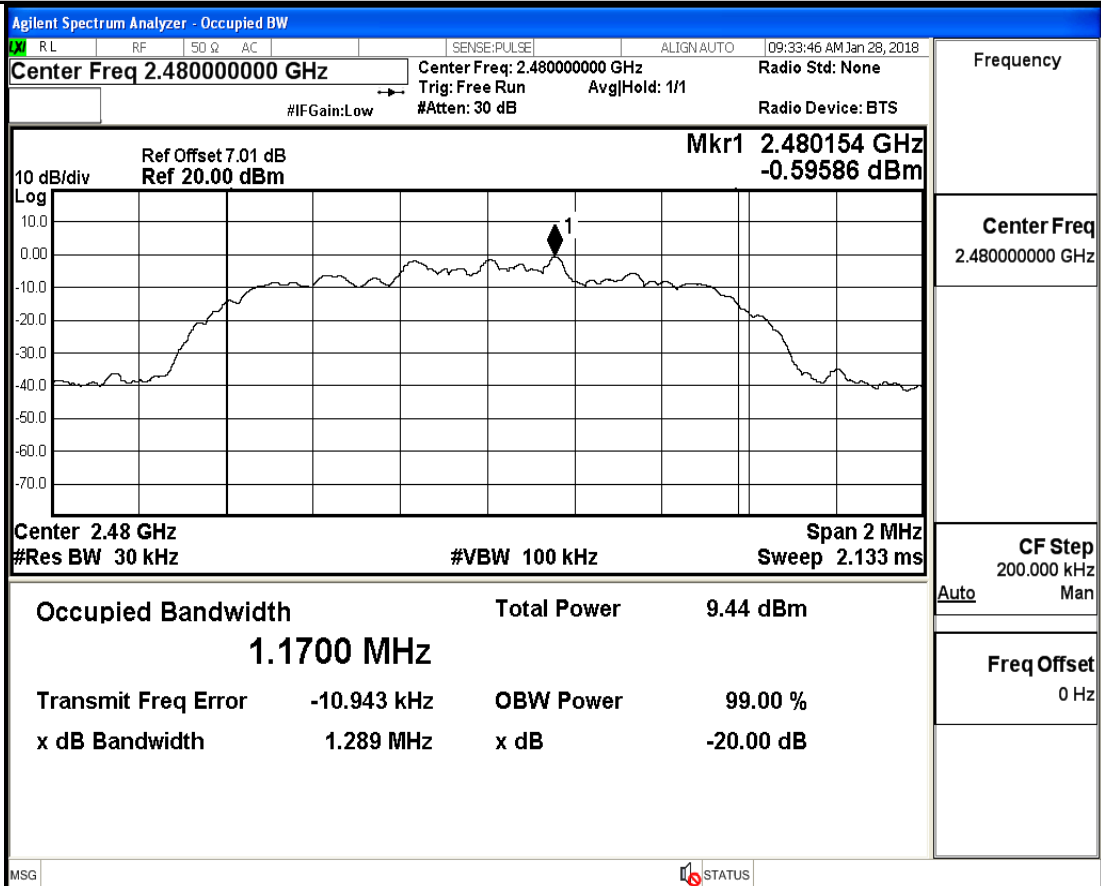
20 dB Bandwidth_2DH5_2402



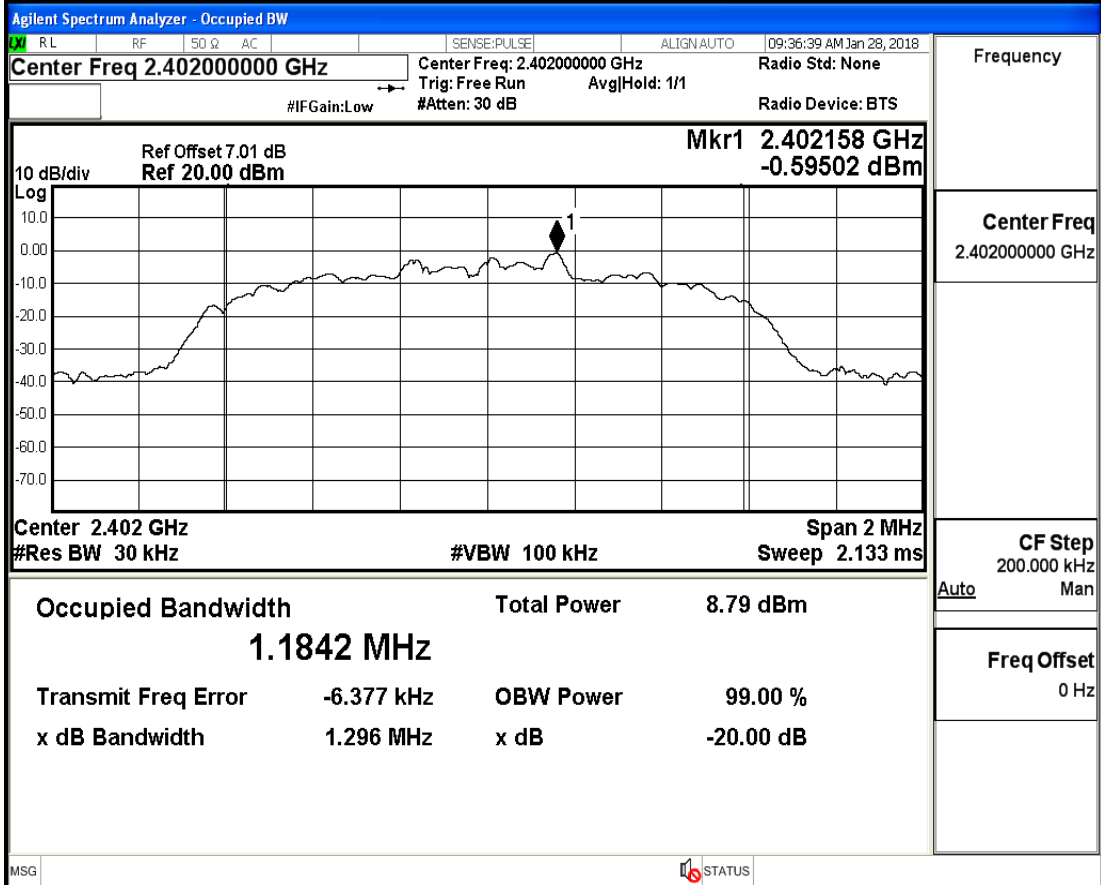
20 dB Bandwidth_2DH5_2441



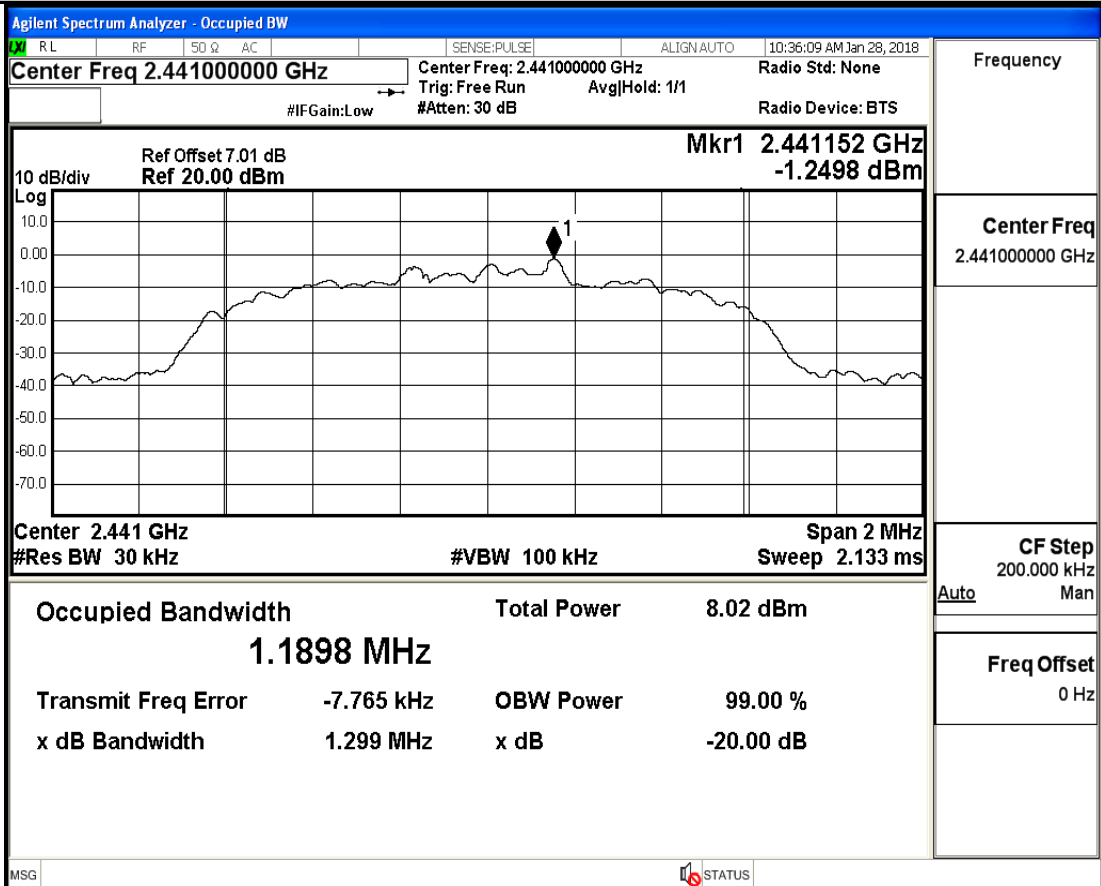
20 dB Bandwidth_2DH5_2480



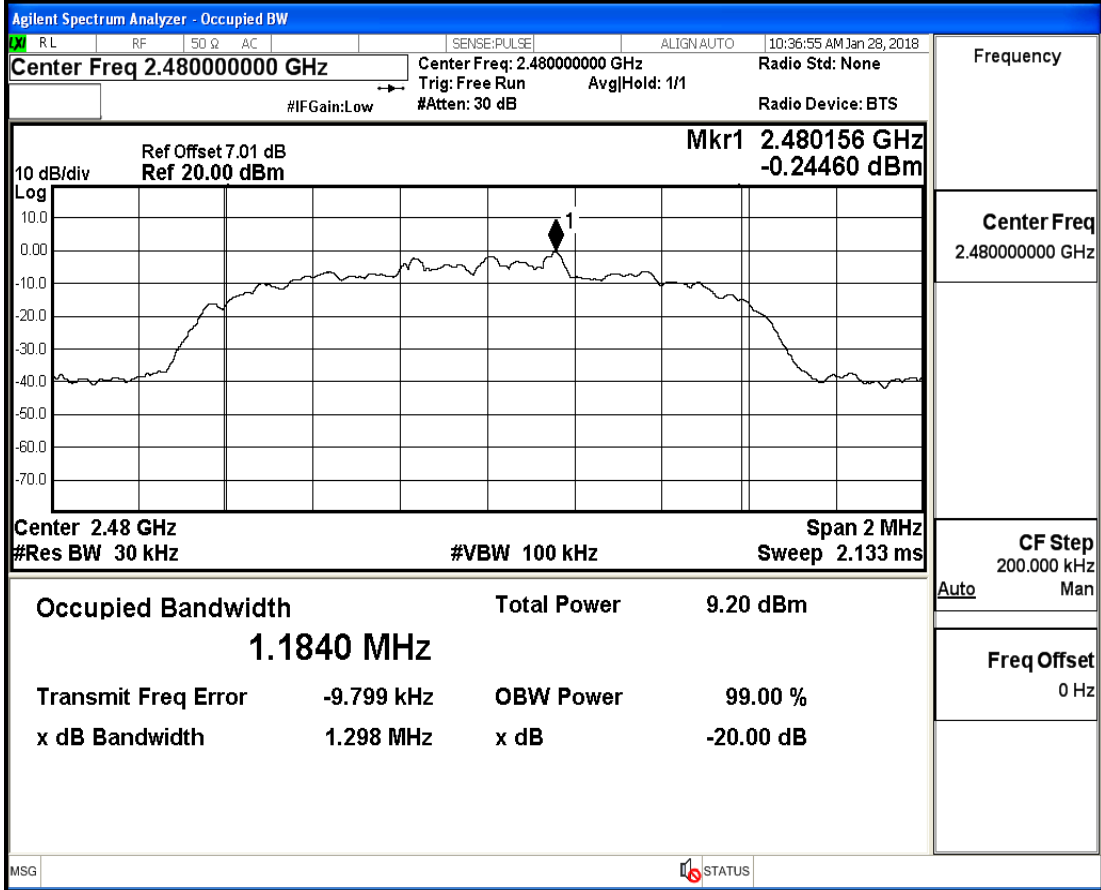
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



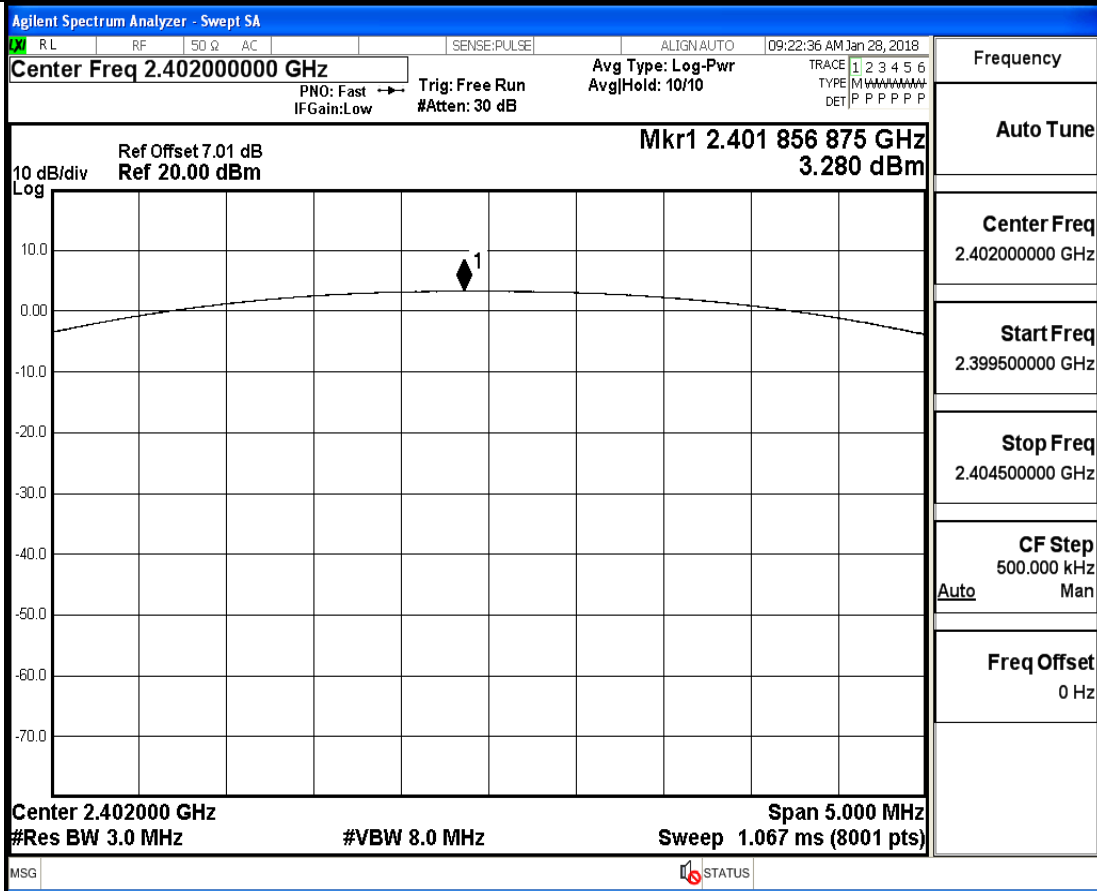
20 dB Bandwidth_3DH5_2480



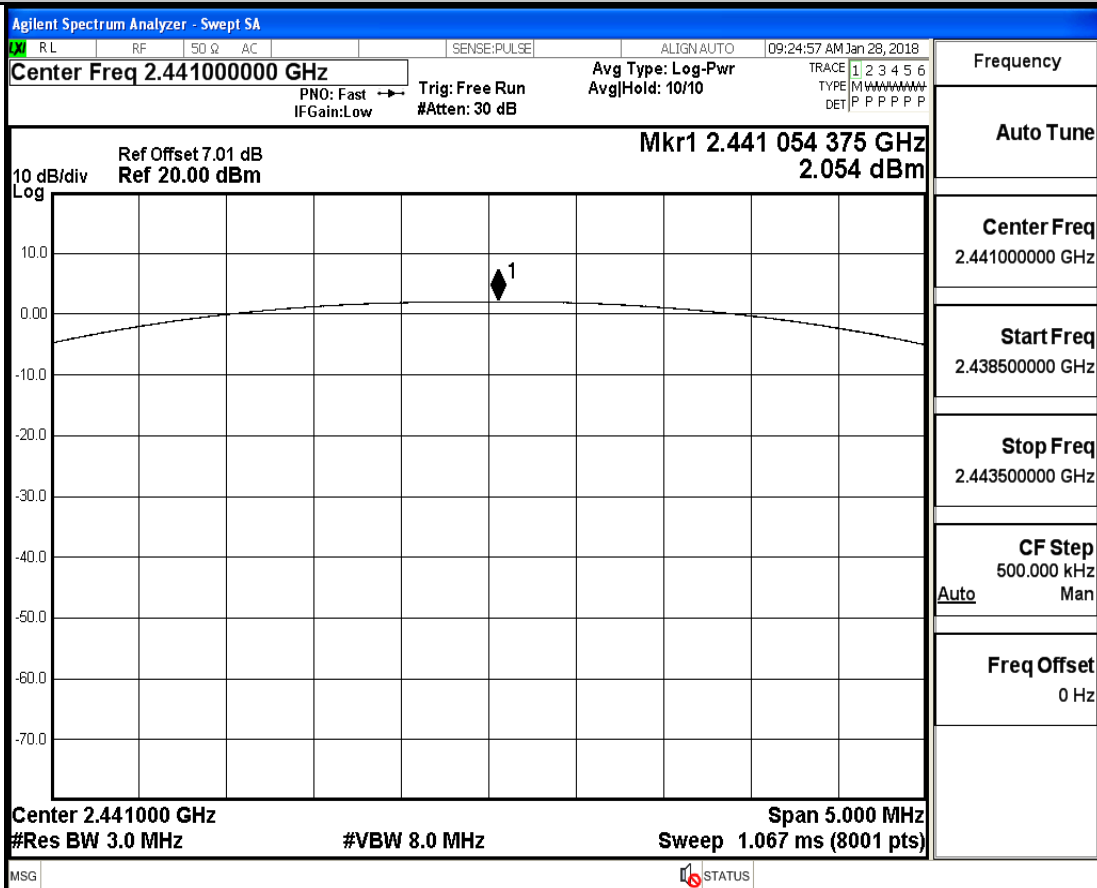
2. Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	3.28	21	PASS
DH5	2441	2.054	21	PASS
DH5	2480	3.617	21	PASS
2DH5	2402	2.446	21	PASS
2DH5	2441	1.472	21	PASS
2DH5	2480	3.035	21	PASS
3DH5	2402	2.721	21	PASS
3DH5	2441	1.652	21	PASS
3DH5	2480	3.226	21	PASS

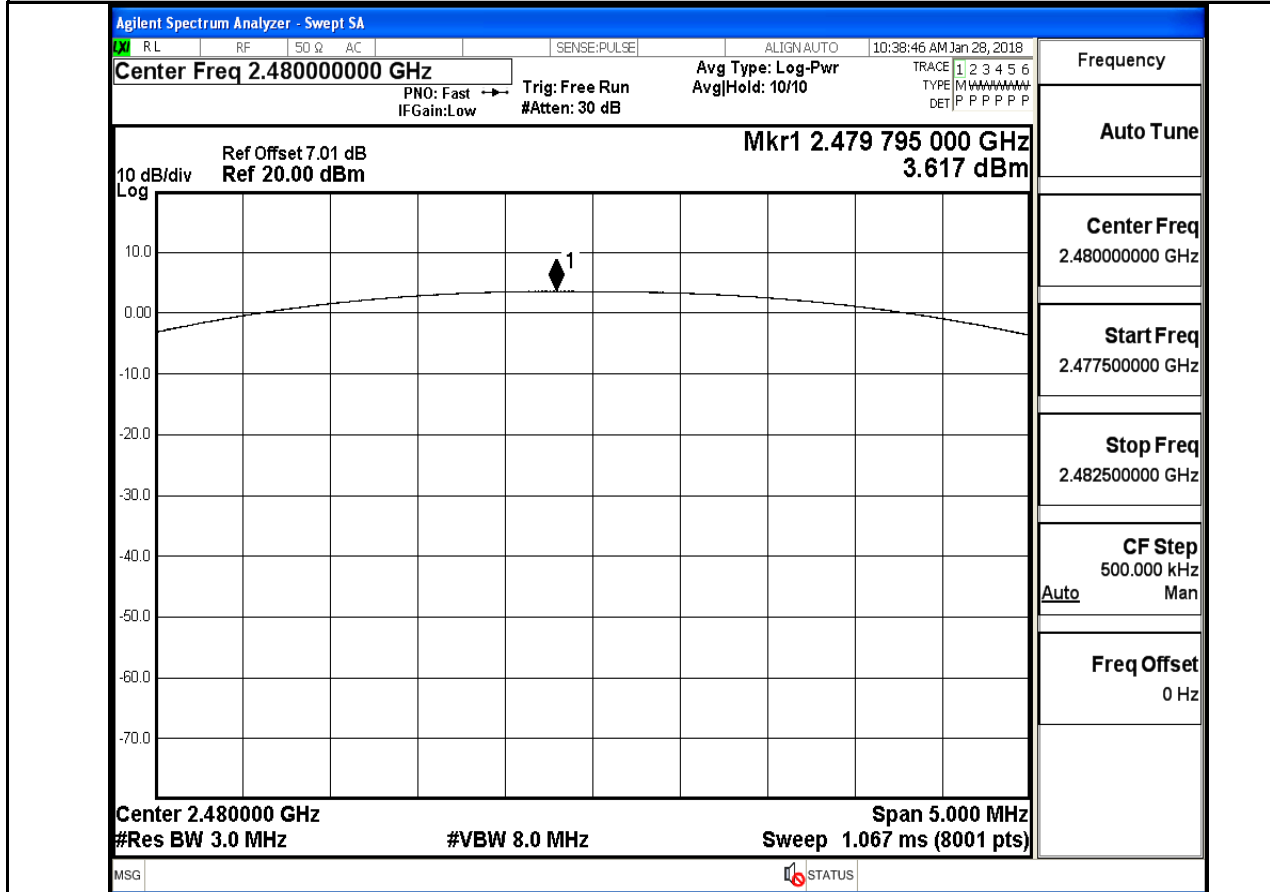
Conducted Peak Output Power_DH5_2402



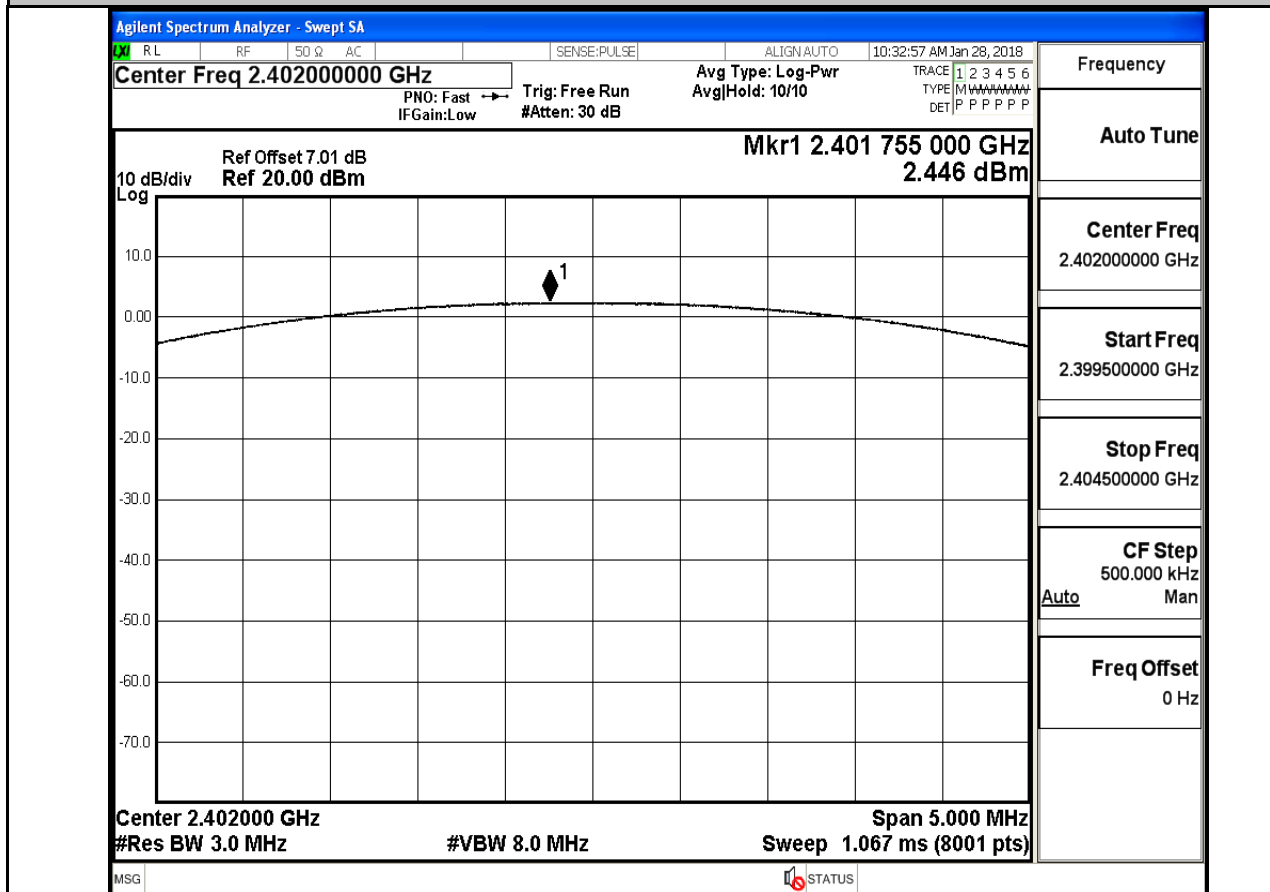
Conducted Peak Output Power_DH5_2441



Conducted Peak Output Power_DH5_2480



Conducted Peak Output Power_2DH5_2402



Conducted Peak Output Power_2DH5_2441

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Q AC SENSE:PULSE ALIGN: AUTO 09:32:18 AM Jan 28, 2018

Center Freq 2.441000000 GHz PNO: Fast → Trig: Free Run Avg Type: Log-Pwr TRAC 1 2 3 4 5 6
IFGain:Low #Atten: 30 dB AvgHld: 10/10 TYPE: M W W W W W W W W W
DET: P P P P P P P

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.438500000 GHz

Stop Freq
2.443500000 GHz

CF Step
500.000 kHz
Auto Man

Freq Offset
0 Hz

Ref Offset 7.01 dB
Ref 20.00 dBm

Mkr1 2.441 118 125 GHz
1.472 dBm

10 dB/div
Log

Center 2.441000 GHz **Span 5.000 MHz**
#Res BW 3.0 MHz **#VBW 8.0 MHz** **Sweep 1.067 ms (8001 pts)**

MSG STATUS

Conducted Peak Output Power_2DH5_2480

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Q AC SENSE:PULSE ALIGN: AUTO 09:34:18 AM Jan 28, 2018

Center Freq 2.480000000 GHz PNO: Fast → Trig: Free Run Avg Type: Log-Pwr TRAC 1 2 3 4 5 6
IFGain:Low #Atten: 30 dB AvgHld: 10/10 TYPE: M W W W W W W W W W
DET: P P P P P P P

Frequency

Auto Tune

Center Freq
2.480000000 GHz

Start Freq
2.477500000 GHz

Stop Freq
2.482500000 GHz

CF Step
500.000 kHz
Auto Man

Freq Offset
0 Hz

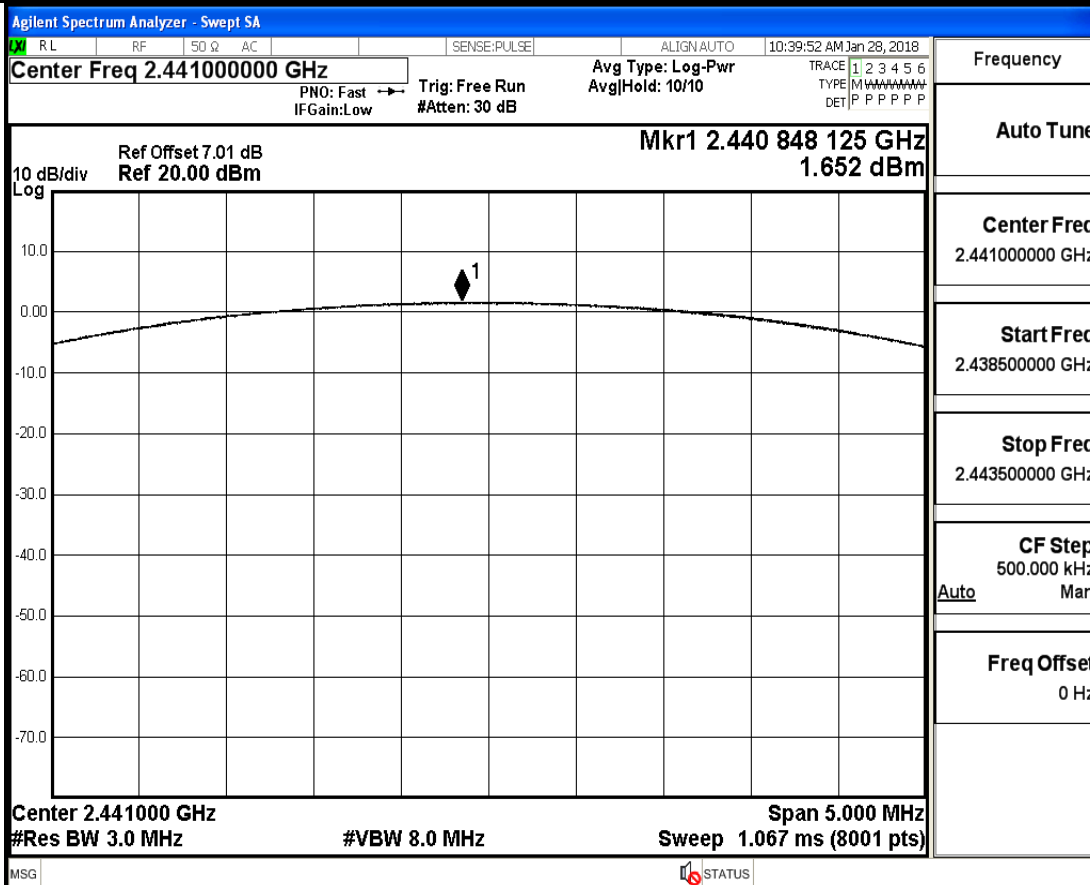
Ref Offset 7.01 dB
Ref 20.00 dBm

Mkr1 2.479 833 125 GHz
3.035 dBm

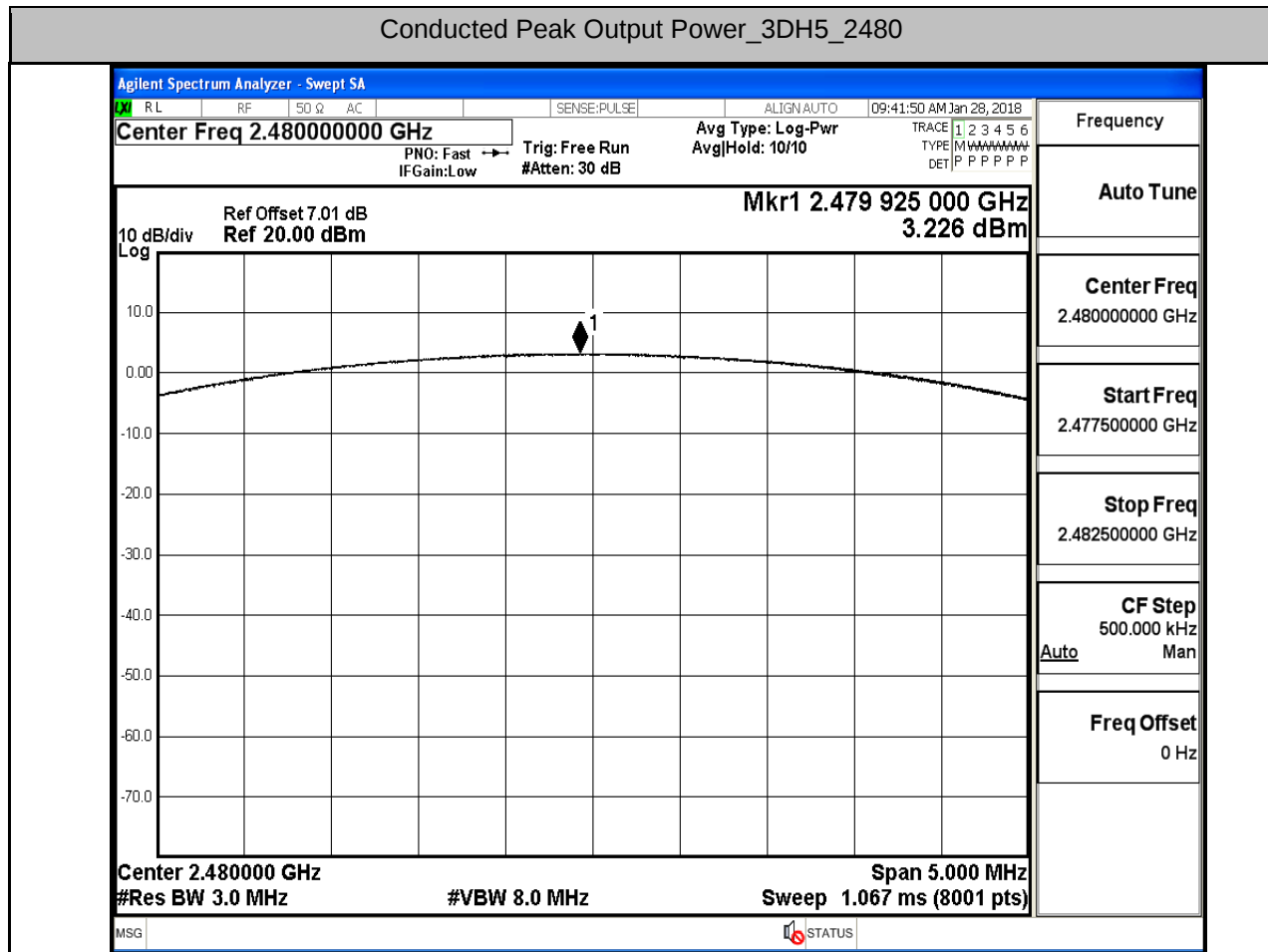
10 dB/div
Log

Center 2.480000 GHz **Span 5.000 MHz**
#Res BW 3.0 MHz **#VBW 8.0 MHz** **Sweep 1.067 ms (8001 pts)**

MSG STATUS



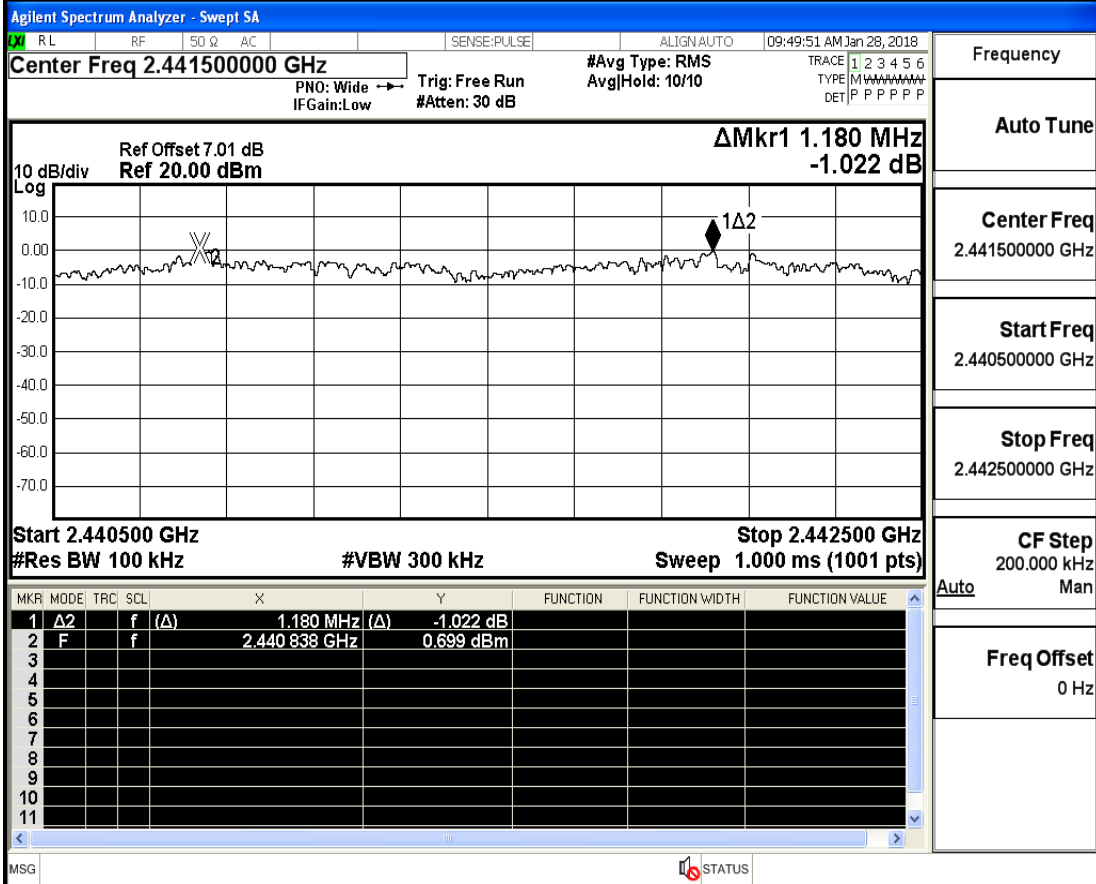
Conducted Peak Output Power_3DH5_2480



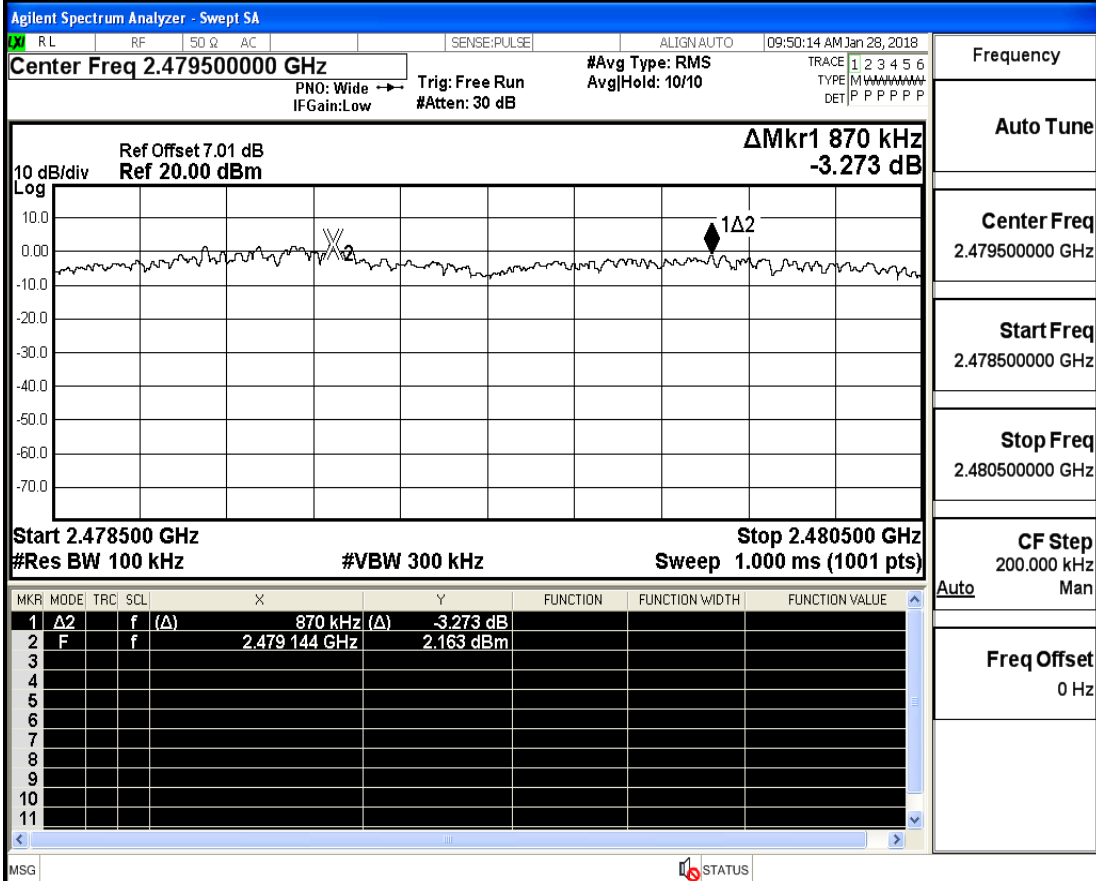
3.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2402	1.082	0.69	PASS
DH5	2441	0.874	0.64	PASS
DH5	2480	1.028	0.99	PASS
2DH5	2402	1.084	0.86	PASS
2DH5	2441	1.18	0.86	PASS
2DH5	2480	0.87	0.86	PASS
3DH5	2402	1.076	0.86	PASS
3DH5	2441	1.368	0.86	PASS
3DH5	2480	1.326	0.86	PASS

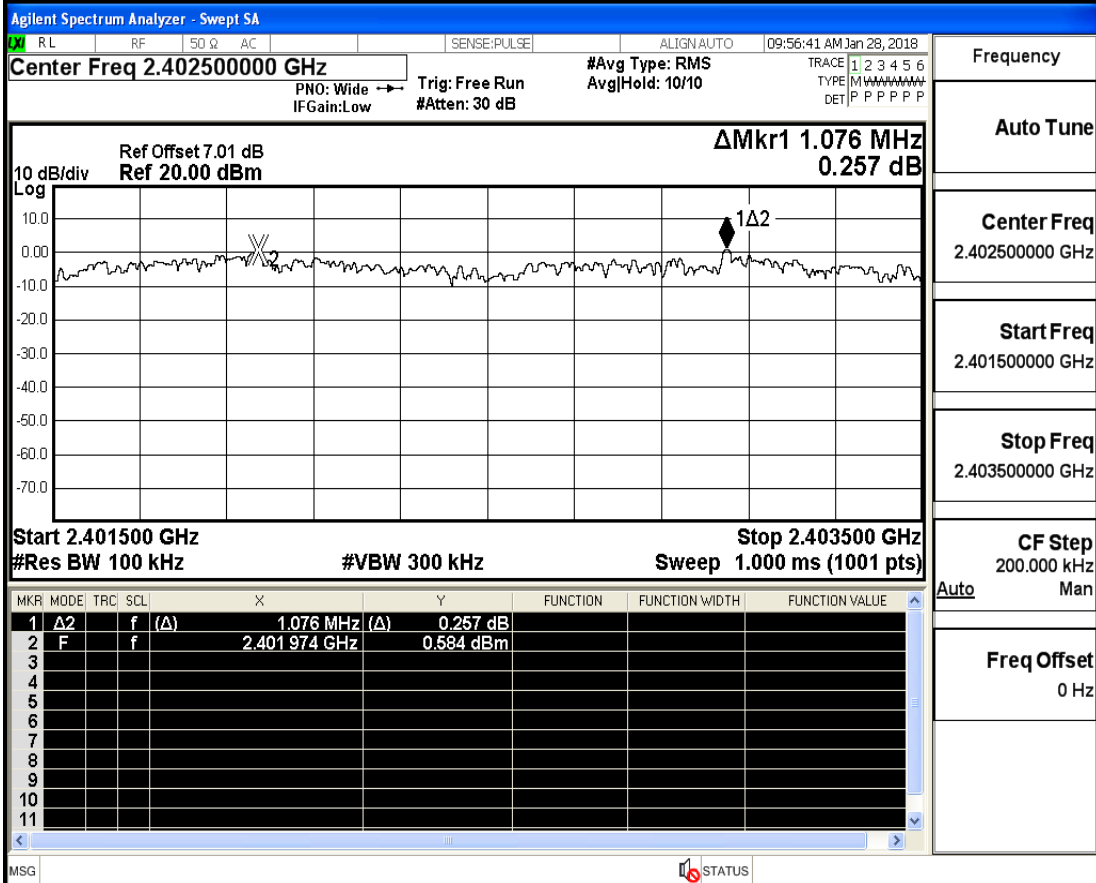
Carrier Frequency Separation_2DH5_2441



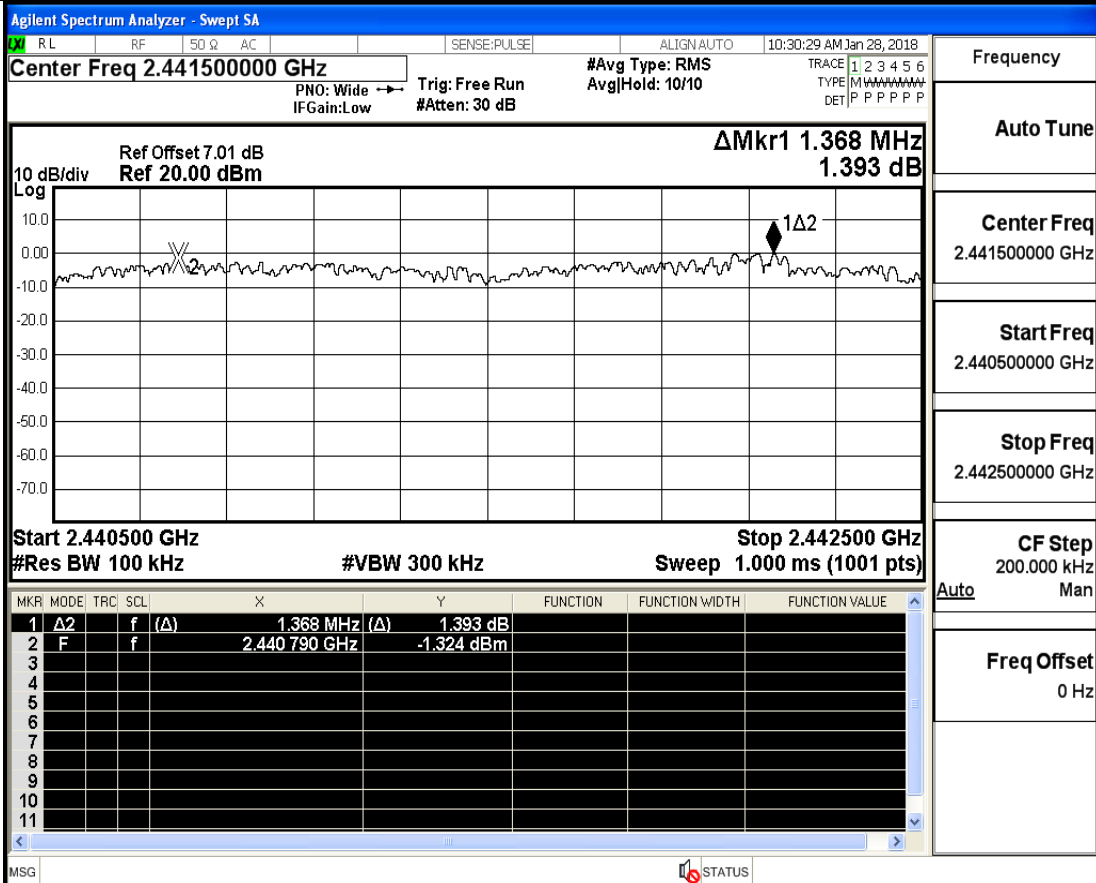
Carrier Frequency Separation_2DH5_2480



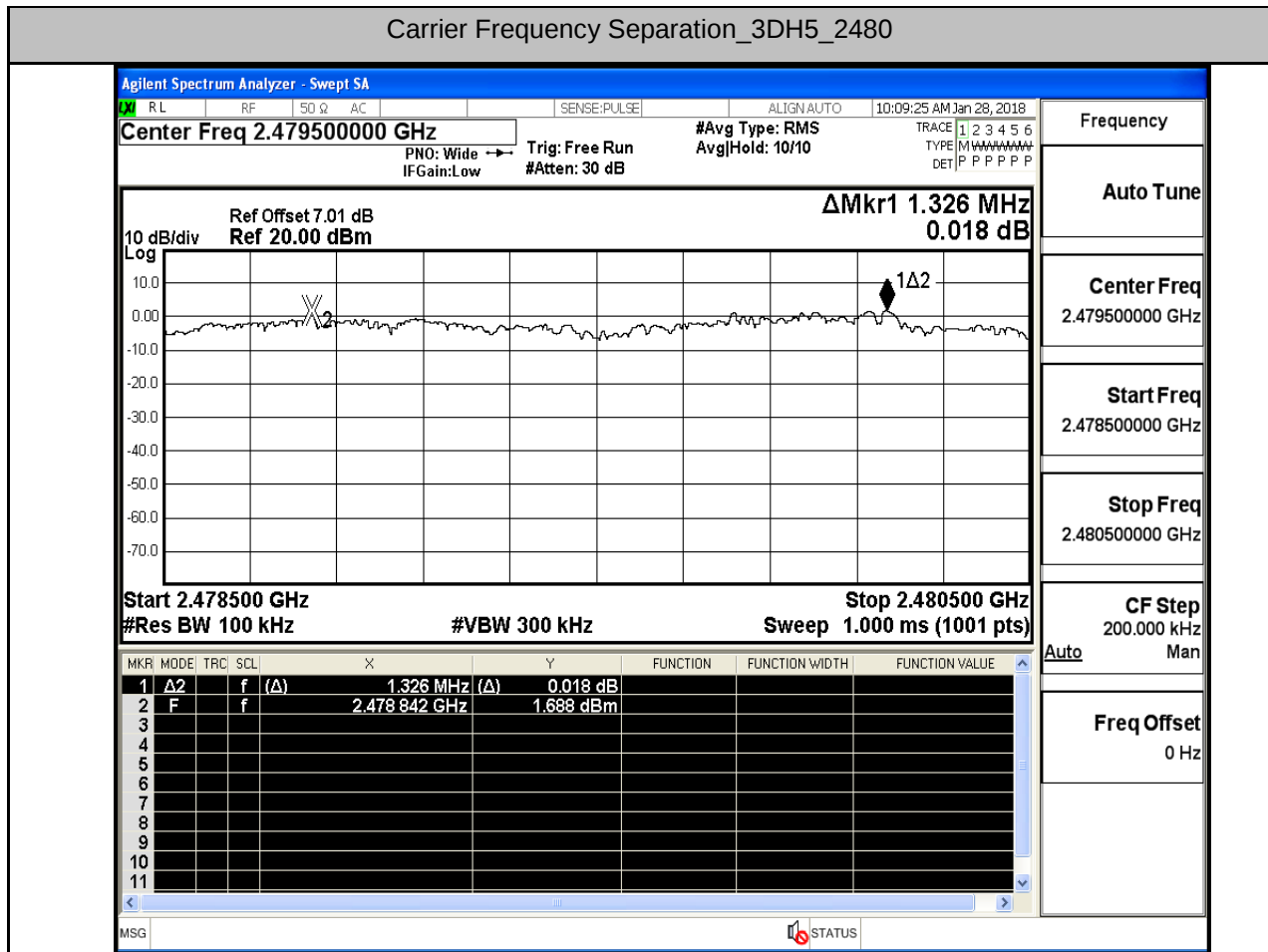
Carrier Frequency Separation_3DH5_2402



Carrier Frequency Separation_3DH5_2441



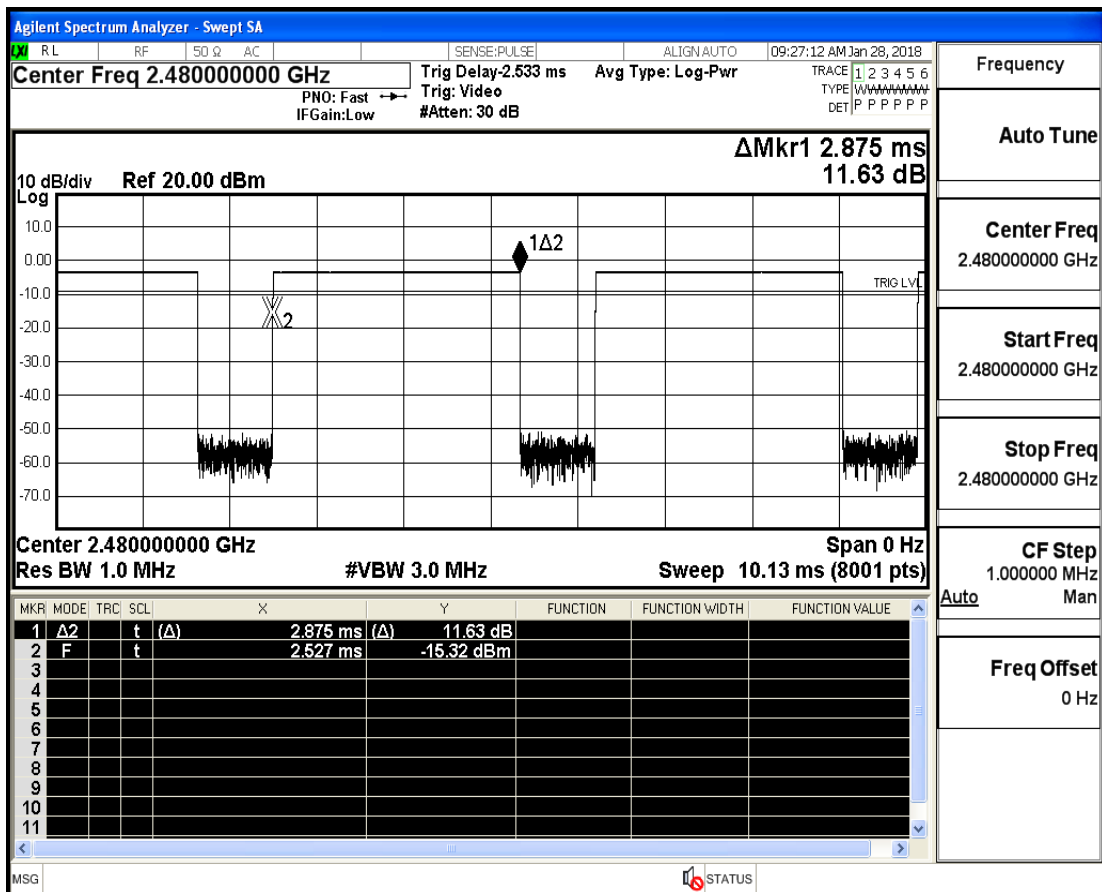
Carrier Frequency Separation_3DH5_2480



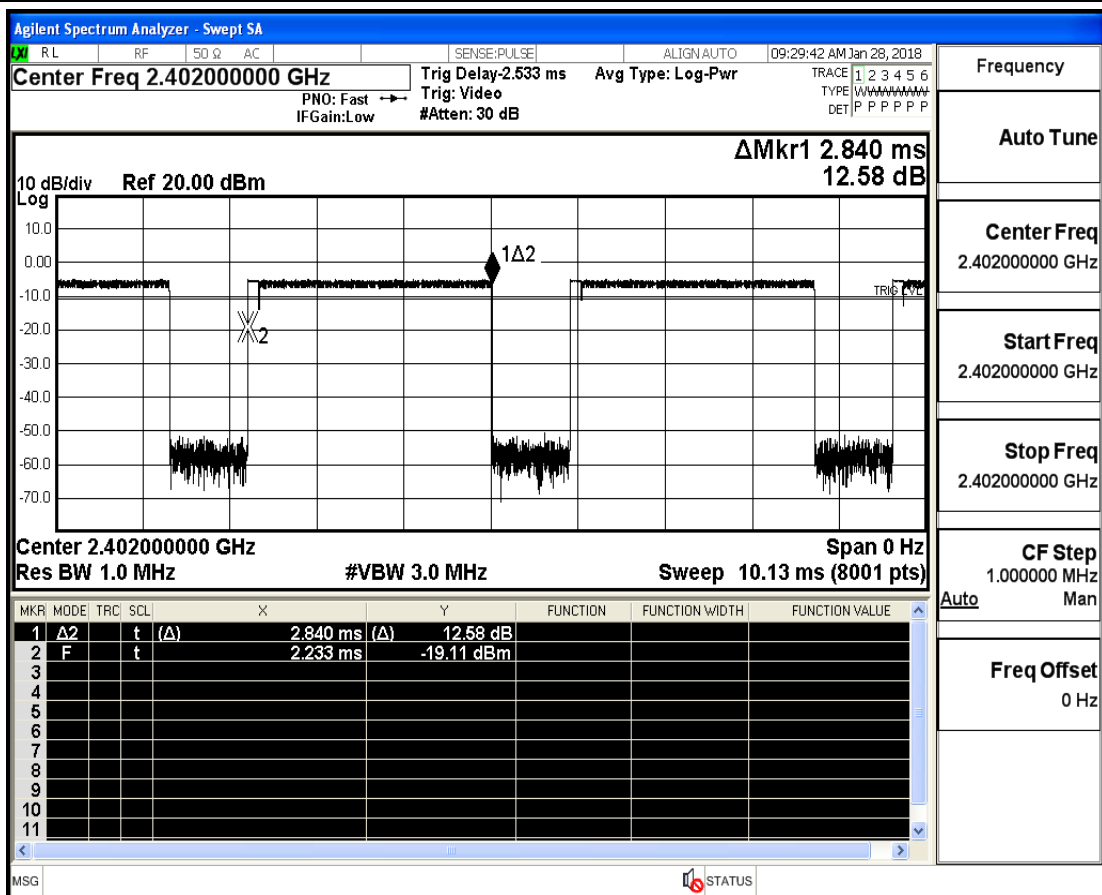
4.Dwell Time

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	2.88	106.7	0.307	0.4	PASS
2DH5	2402	2.84	106.7	0.303	0.4	PASS
2DH5	2441	2.84	106.7	0.303	0.4	PASS
2DH5	2480	2.84	106.7	0.303	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

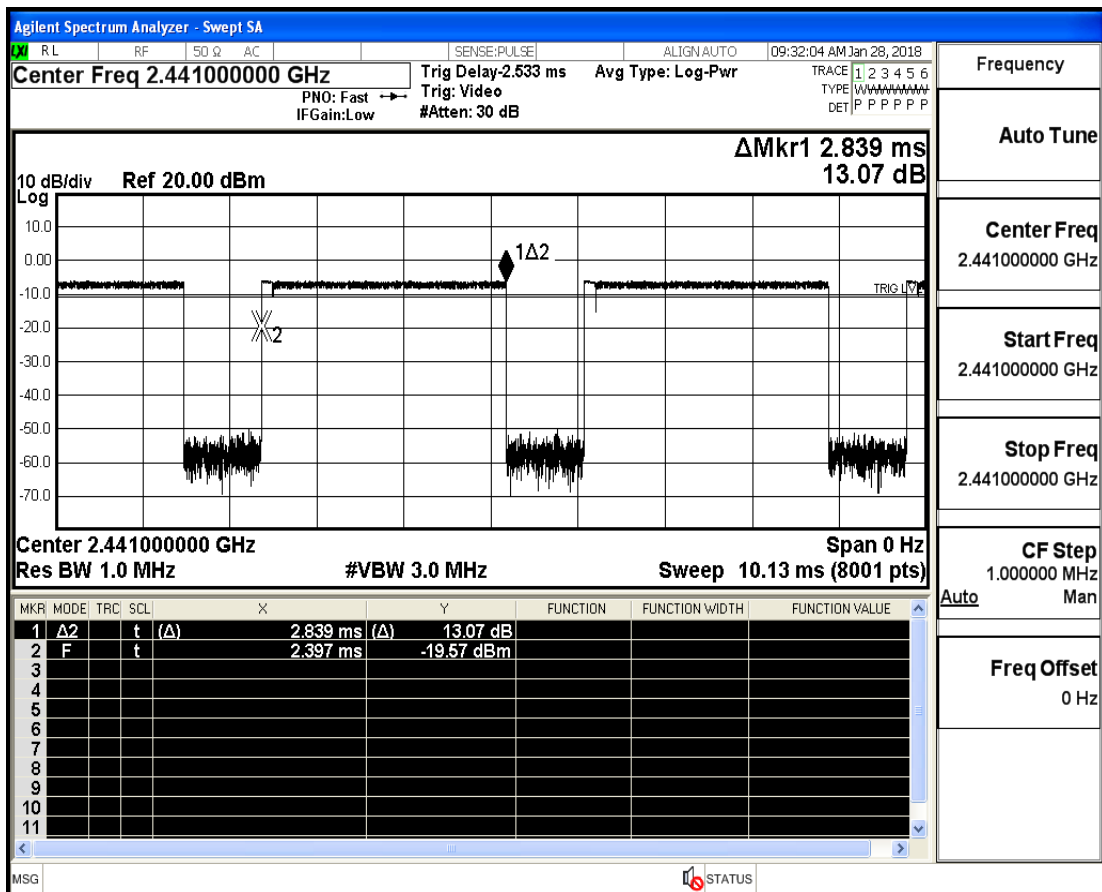
Dwell Time DH5 2480



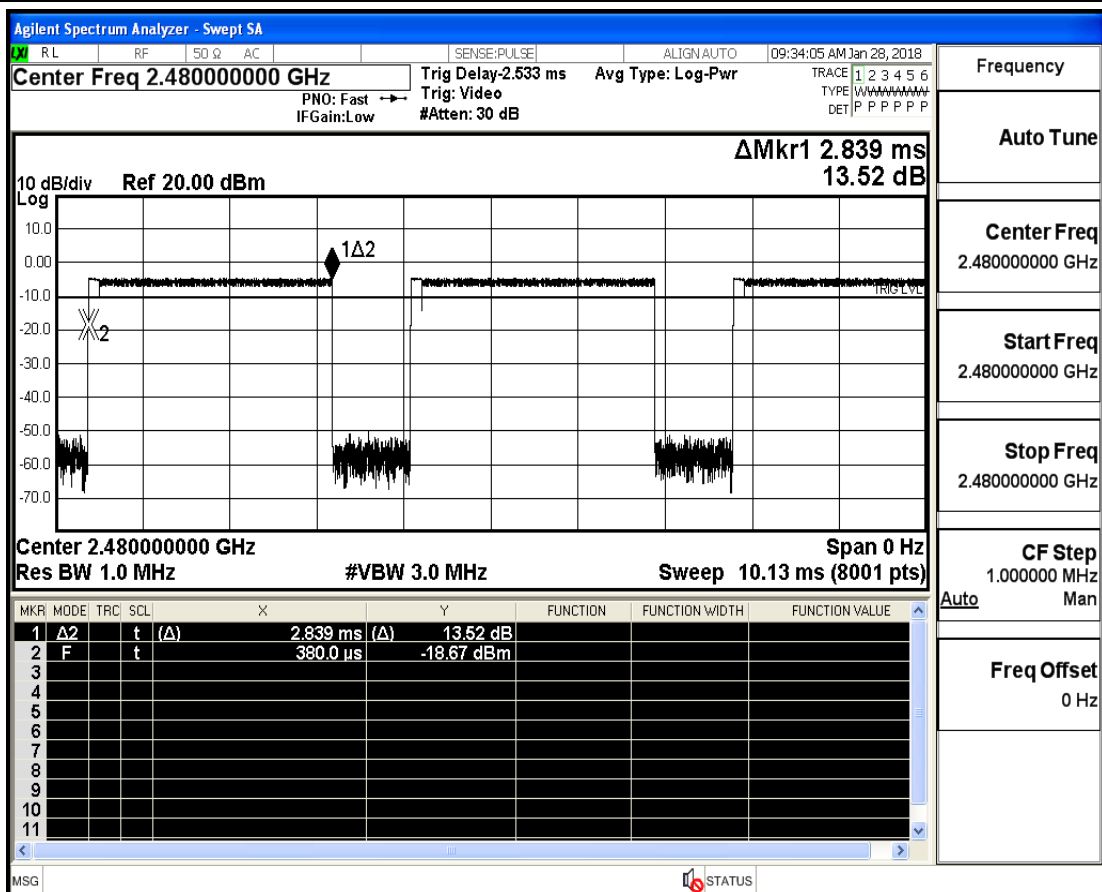
Dwell Time 2DH5 2402



Dwell Time 2DH5 2441



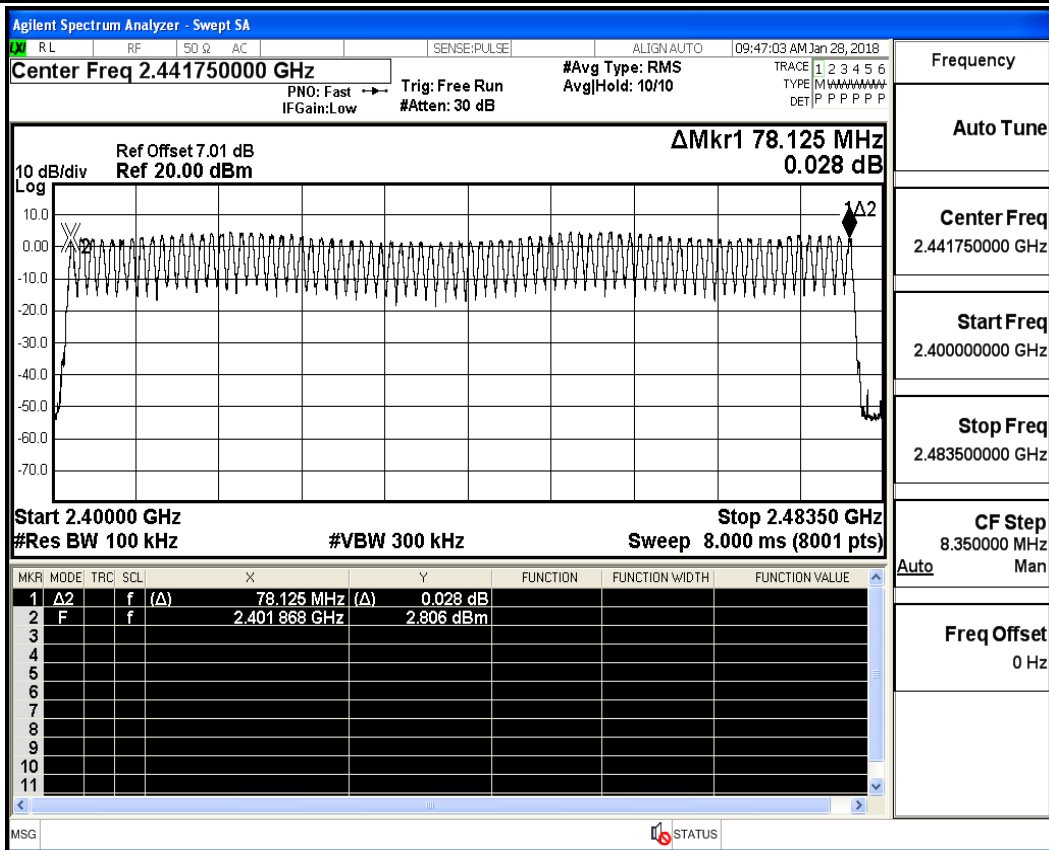
Dwell Time 2DH5 2480



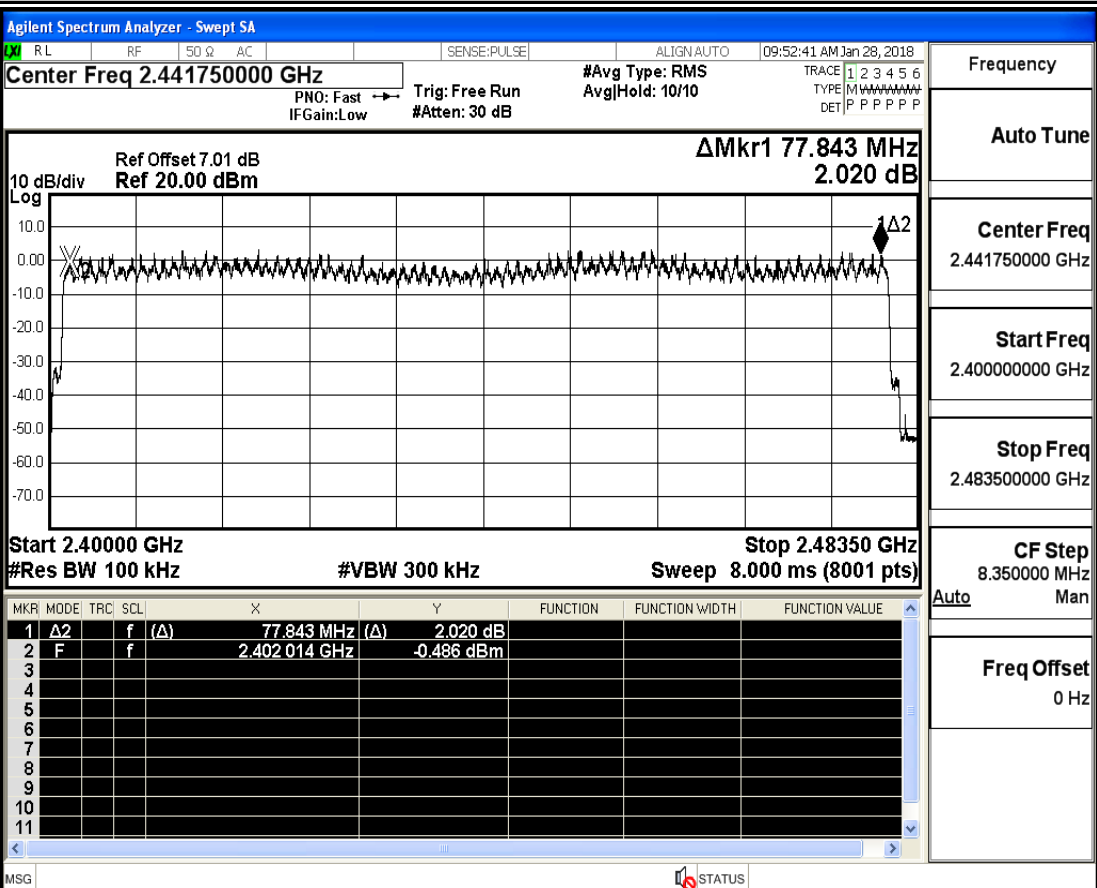
5.Hopping Channel Number

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

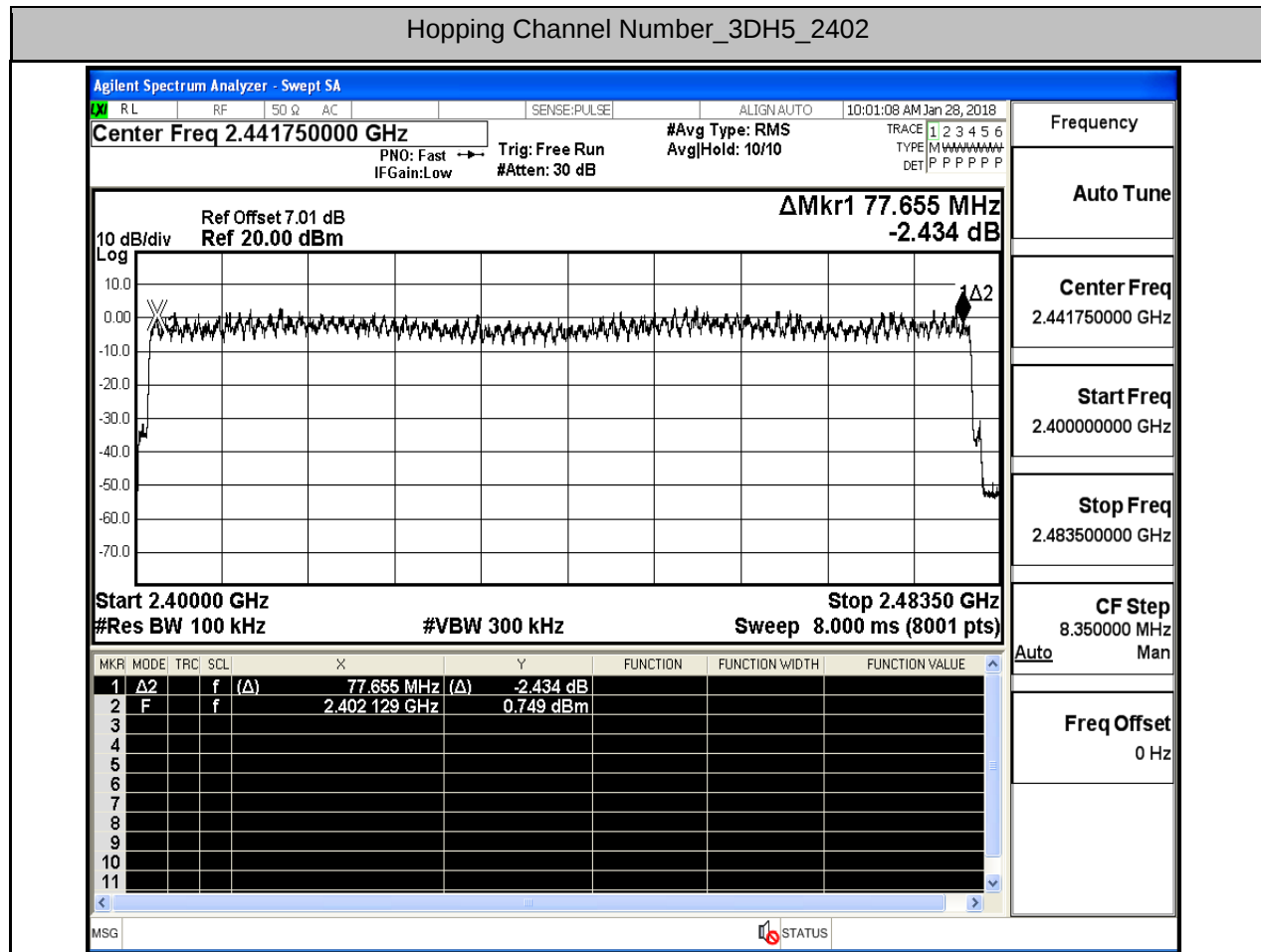
Hopping Channel Number_DH5_2402



Hopping Channel Number_2DH5_2402



Hopping Channel Number_3DH5_2402



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	6.346	-50.488	-13.65	PASS
DH5	2402	Off	2.898	-50.808	-17.1	PASS
DH5	2480	On	4.647	-50.403	-15.35	PASS
DH5	2480	Off	3.769	-46.835	-16.23	PASS
2DH5	2402	On	3.211	-50.215	-16.79	PASS
2DH5	2402	Off	1.564	-50.921	-18.44	PASS
2DH5	2480	On	3.375	-50.729	-16.63	PASS
2DH5	2480	Off	2.218	-51.168	-17.78	PASS
3DH5	2402	On	4.108	-50.699	-15.89	PASS
3DH5	2402	Off	0.456	-50.515	-19.54	PASS
3DH5	2480	On	3.302	-50.318	-16.7	PASS
3DH5	2480	Off	2.039	-50.045	-17.96	PASS

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 09:46:20 AM Jan 28, 2018

Center Freq 2.48350000 GHz #Avg Type: RMS #Atten: 30 dB AvgHold: 10/10
PNO: Fast IFGain:Low

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

Mkr4 2.484 175 0 GHz -50.403 dBm

Ref Offset 7.01 dB Ref 20.00 dBm

The main plot shows a frequency spectrum from approximately 2.482 GHz to 2.486 GHz. The y-axis is logarithmic power density from -70.0 dBm/div to 10.0 dBm/div. A strong signal is visible around 2.4835 GHz. At 2.484175 GHz, there is a sharp drop in power level, indicated by marker 4. Other markers include marker 1 at the start of the signal, marker 3 at a noise floor level, and marker 4 at the sharp drop.

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.486 012 5 GHz	4.647 dBm			
2	N	f		2.483 500 0 GHz	-53.013 dBm			
3	N	f		2.500 000 0 GHz	-53.076 dBm			
4	N	f		2.484 175 0 GHz	-50.403 dBm			
5								
6								
7								
8								
9								
10								
11								

Center 2.48350 GHz Span 60.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 5.867 ms (8001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.48350000 GHz

Start Freq
2.45350000 GHz

Stop Freq
2.51350000 GHz

CF Step
6.000000 MHz

Auto Man

Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 09:27:40 AM Jan 28, 2018

Center Freq 2.489000000 GHz PNO: Fast Trig: Free Run #Avg Type: RMS Avg/Hold: 10/10

Ref Offset 7.01 dB Ref 20.00 dBm

Mkr4 2.483 714 50 GHz -46.835 dBm

10 dB/div Log

Start 2.47800 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50000 GHz Sweep 2.133 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.479 842 50 GHz	3.769 dBm			
2	N	f		2.483 500 00 GHz	-52.298 dBm			
3	N	f		2.500 000 00 GHz	-53.884 dBm			
4	N	f		2.483 714 50 GHz	-46.835 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq 2.489000000 GHz

Start Freq 2.478000000 GHz

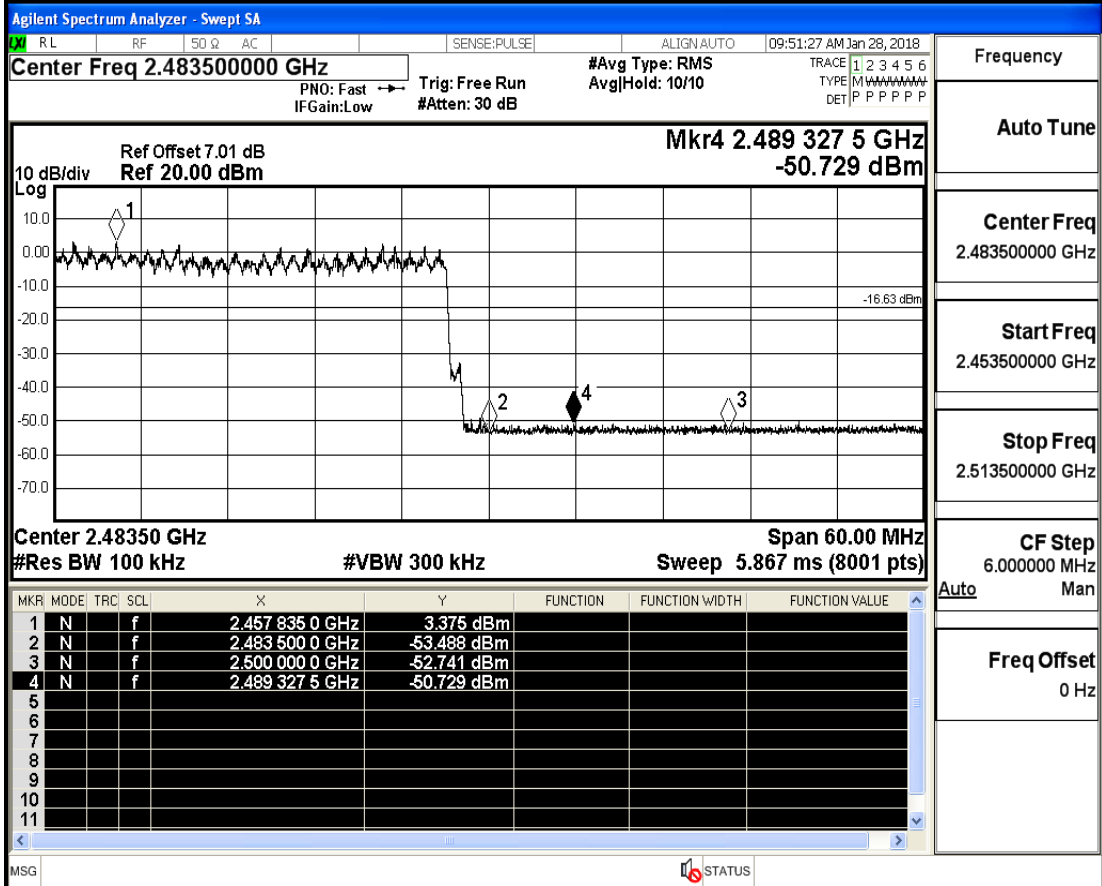
Stop Freq 2.500000000 GHz

CF Step 2.200000 MHz

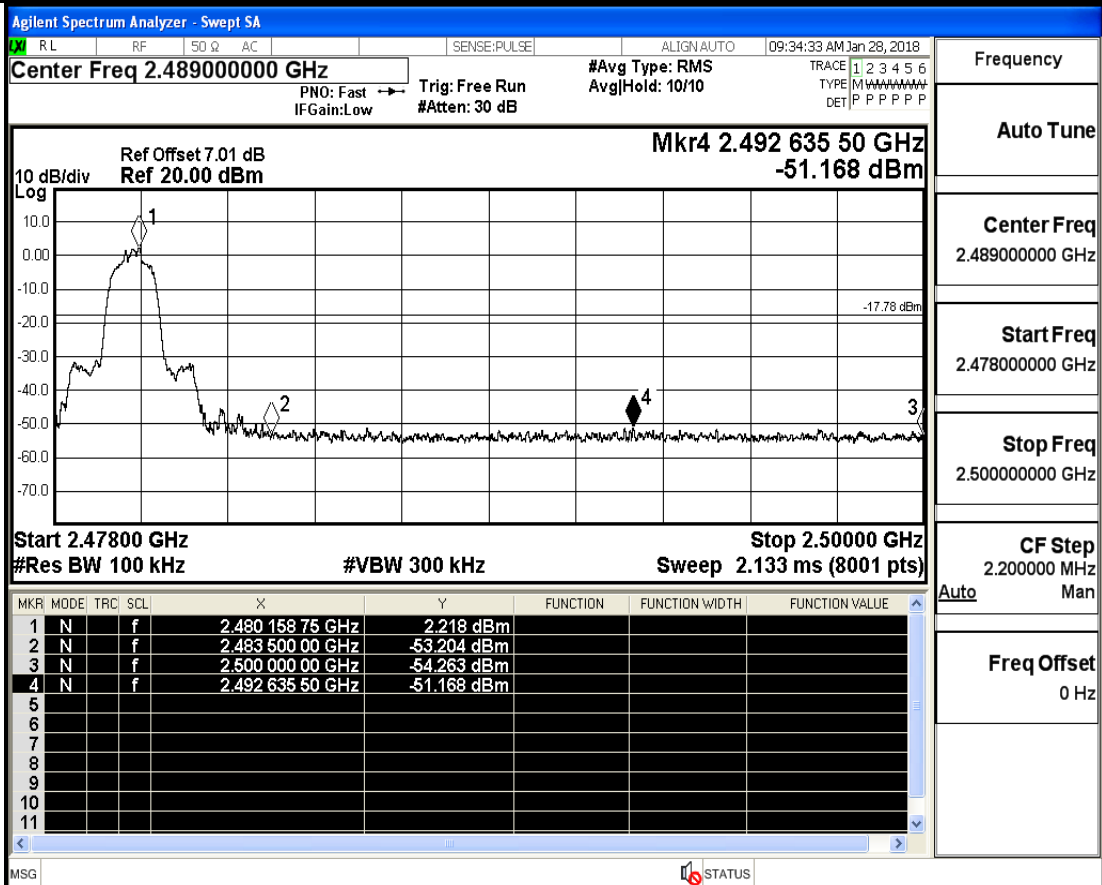
Auto Man

Freq Offset 0 Hz

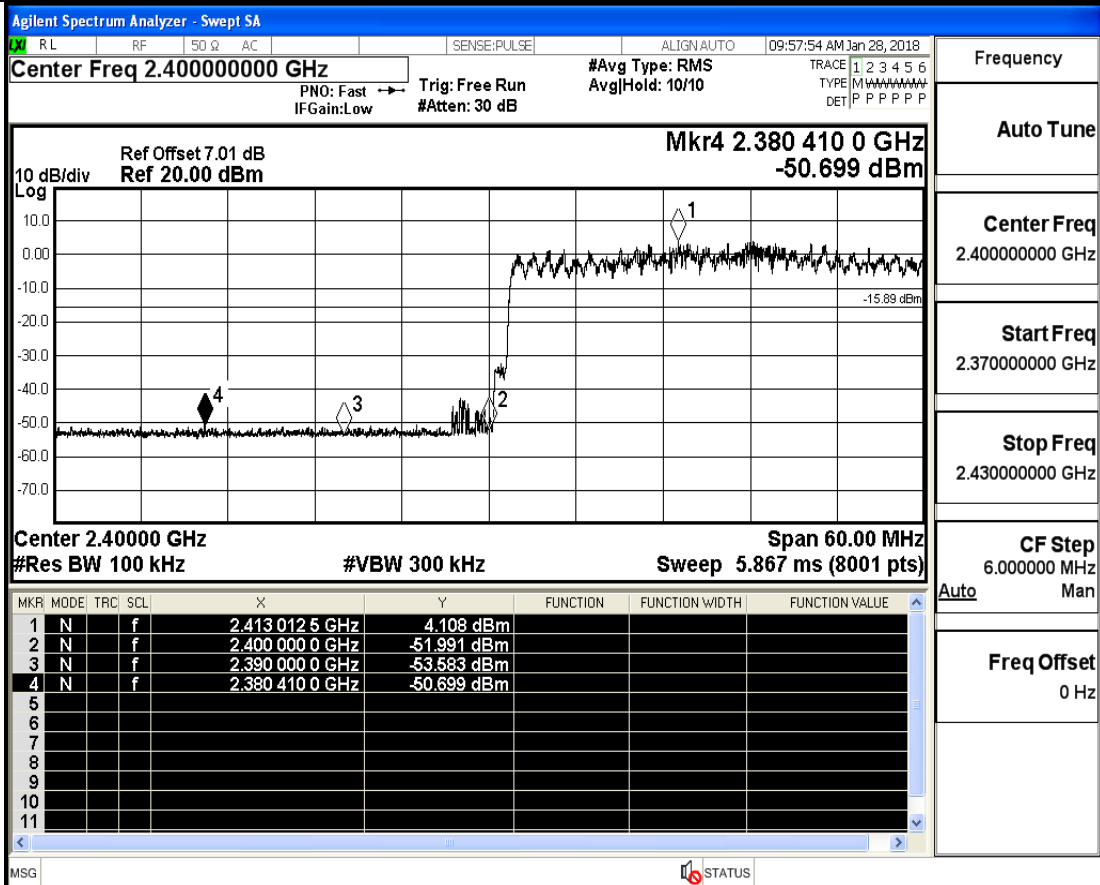
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On

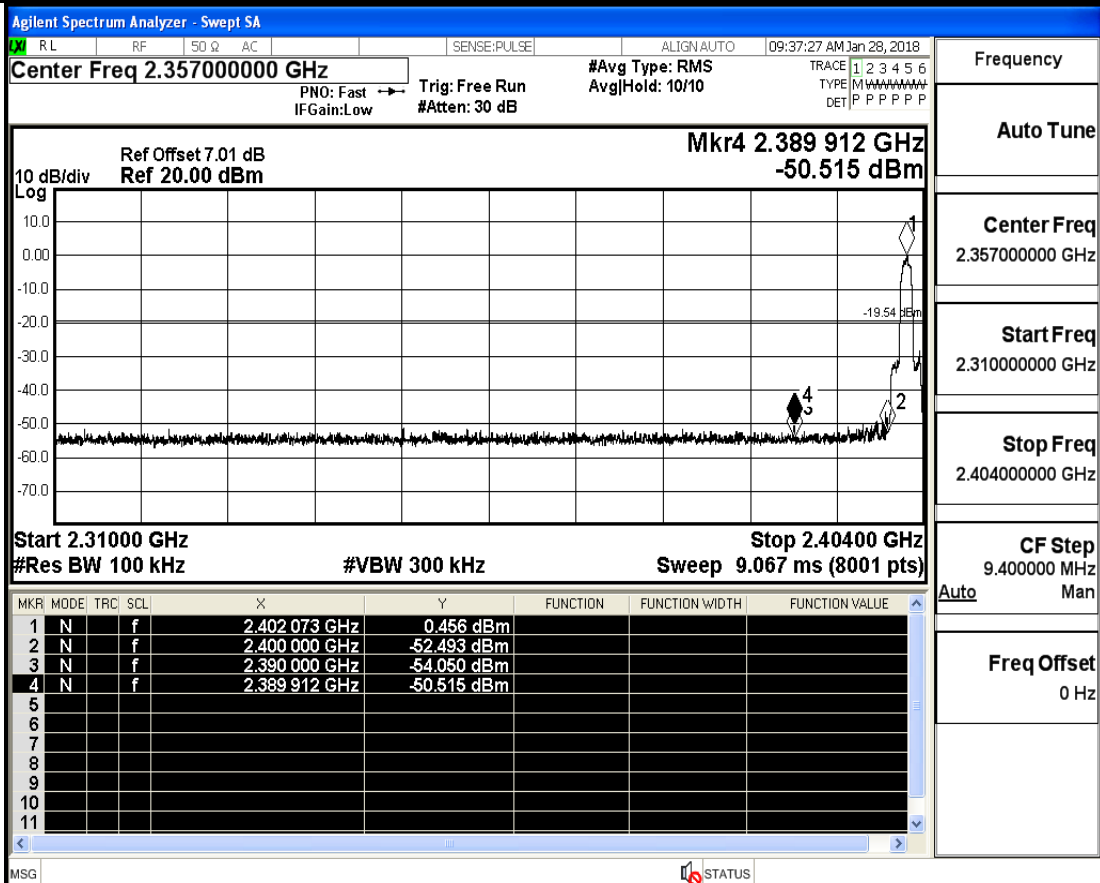


Frequency

Auto Tune

Center Freq
2.400000000 GHzStart Freq
2.370000000 GHzStop Freq
2.430000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off

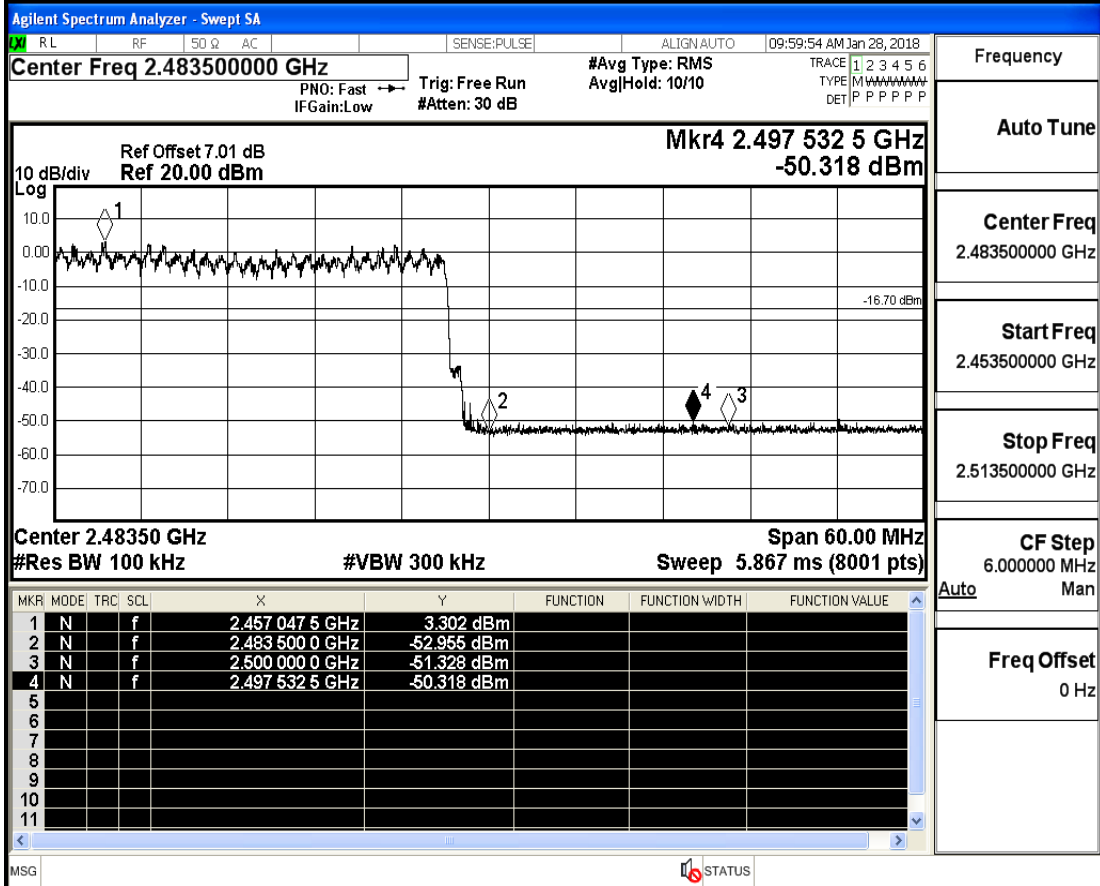


Frequency

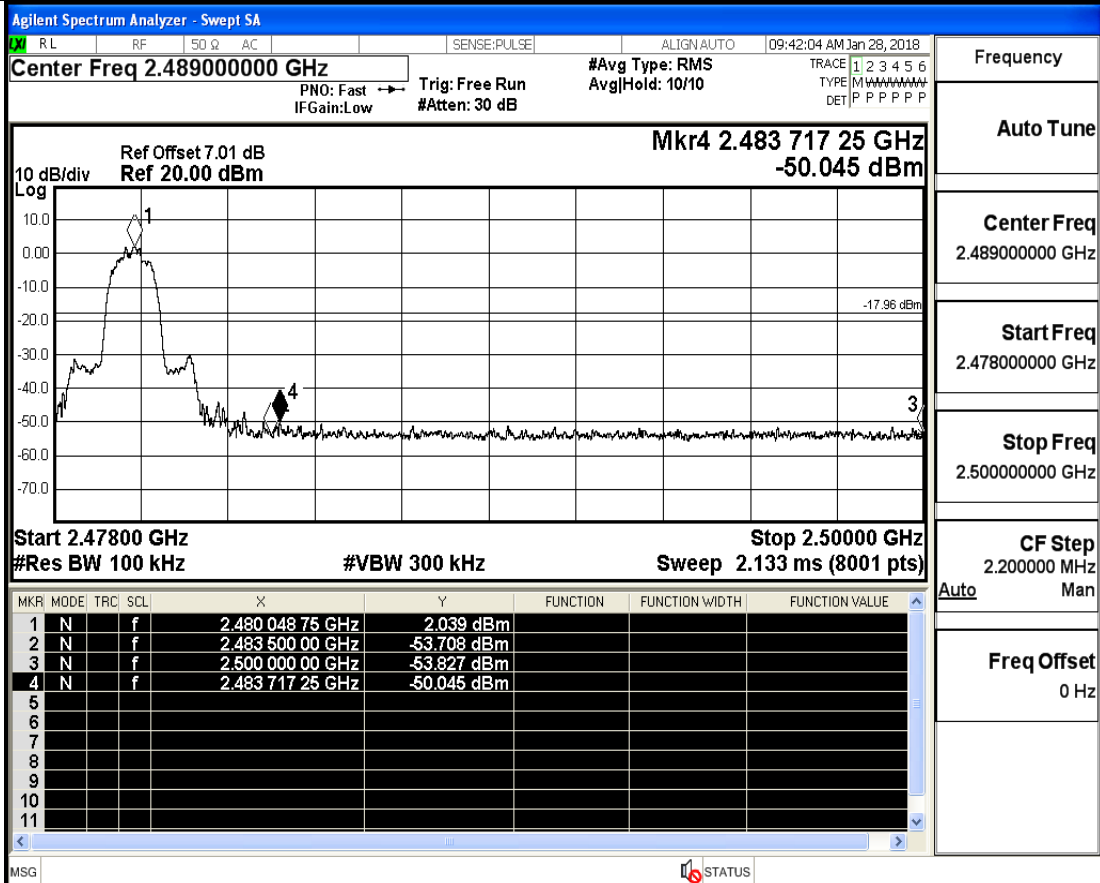
Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

Band-edge for RF Conducted Emissions_3DH5_2480_Hopping On



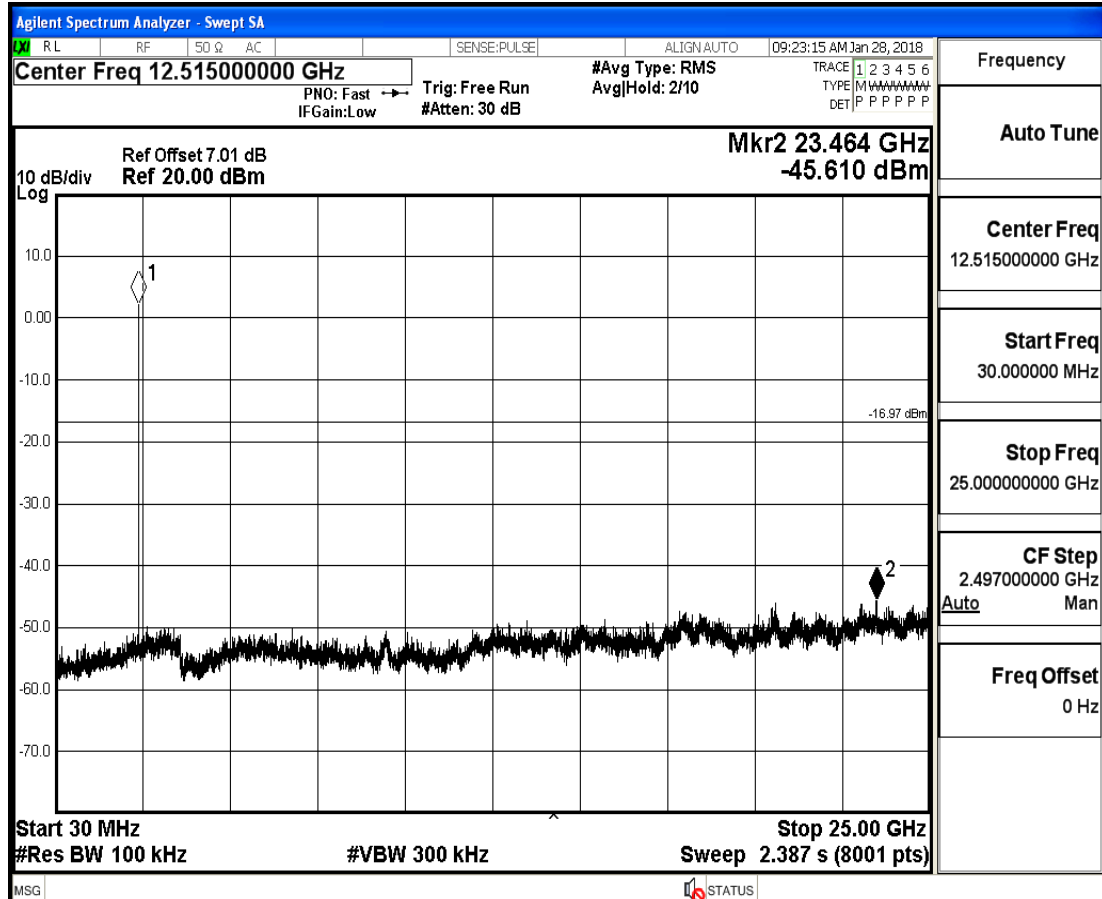
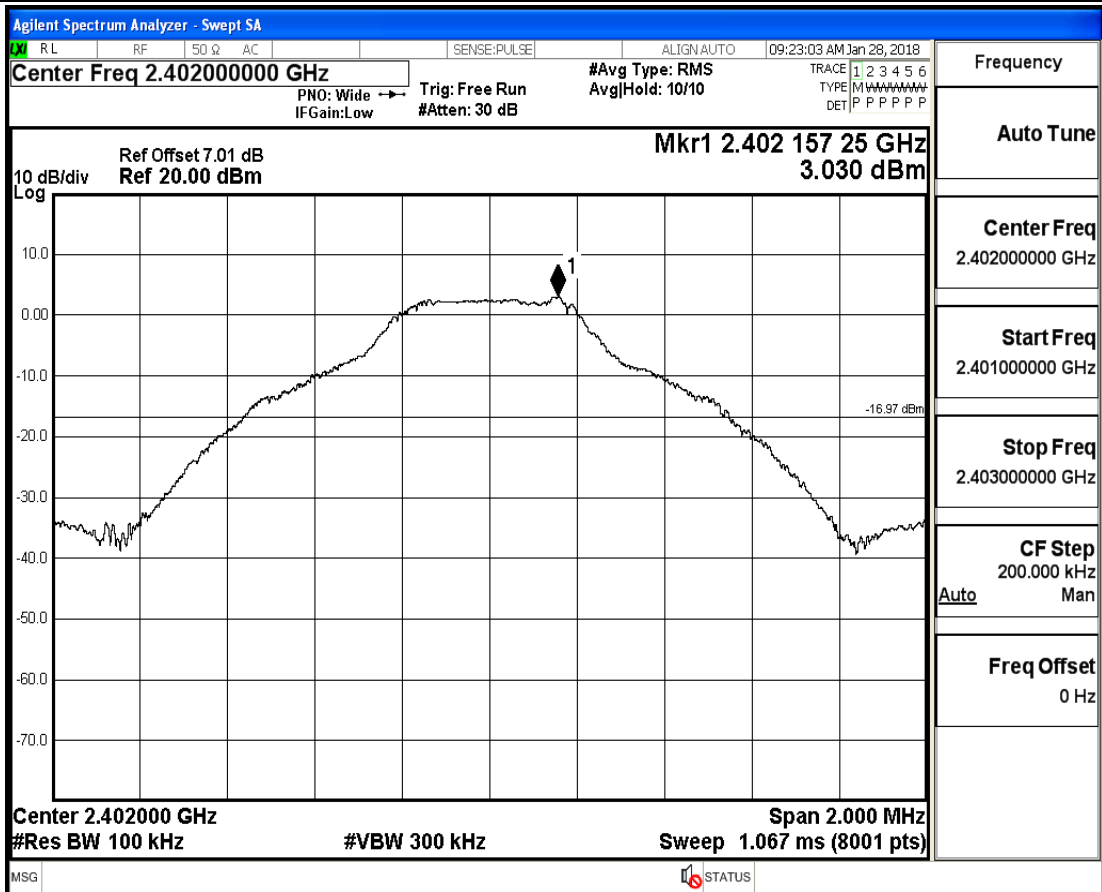
Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off



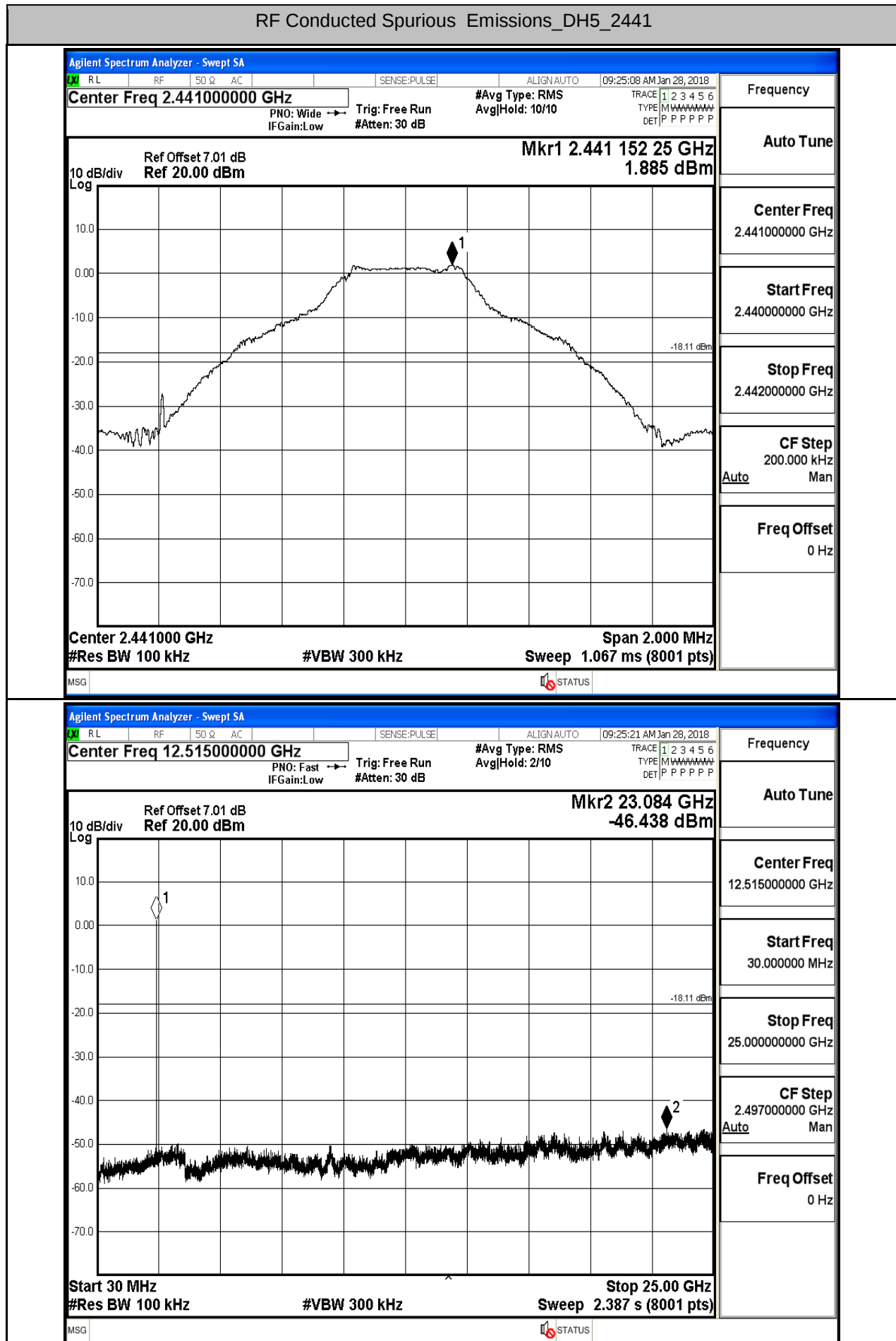
7.RF Conducted Spurious Emissions

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	3.03	-45.610	<-16.97	PASS
DH5	2441	30	25000	100	300	1.885	-46.438	<-18.115	PASS
DH5	2480	30	25000	100	300	3.534	-45.956	<-16.466	PASS
2DH5	2402	30	25000	100	300	1.563	-45.942	<-18.437	PASS
2DH5	2441	30	25000	100	300	0.39	-45.582	<-19.61	PASS
2DH5	2480	30	25000	100	300	1.839	-46.105	<-18.161	PASS
3DH5	2402	30	25000	100	300	1.684	-46.329	<-18.316	PASS
3DH5	2441	30	25000	100	300	0.77	-46.048	<-19.23	PASS
3DH5	2480	30	25000	100	300	2.146	-45.754	<-17.854	PASS

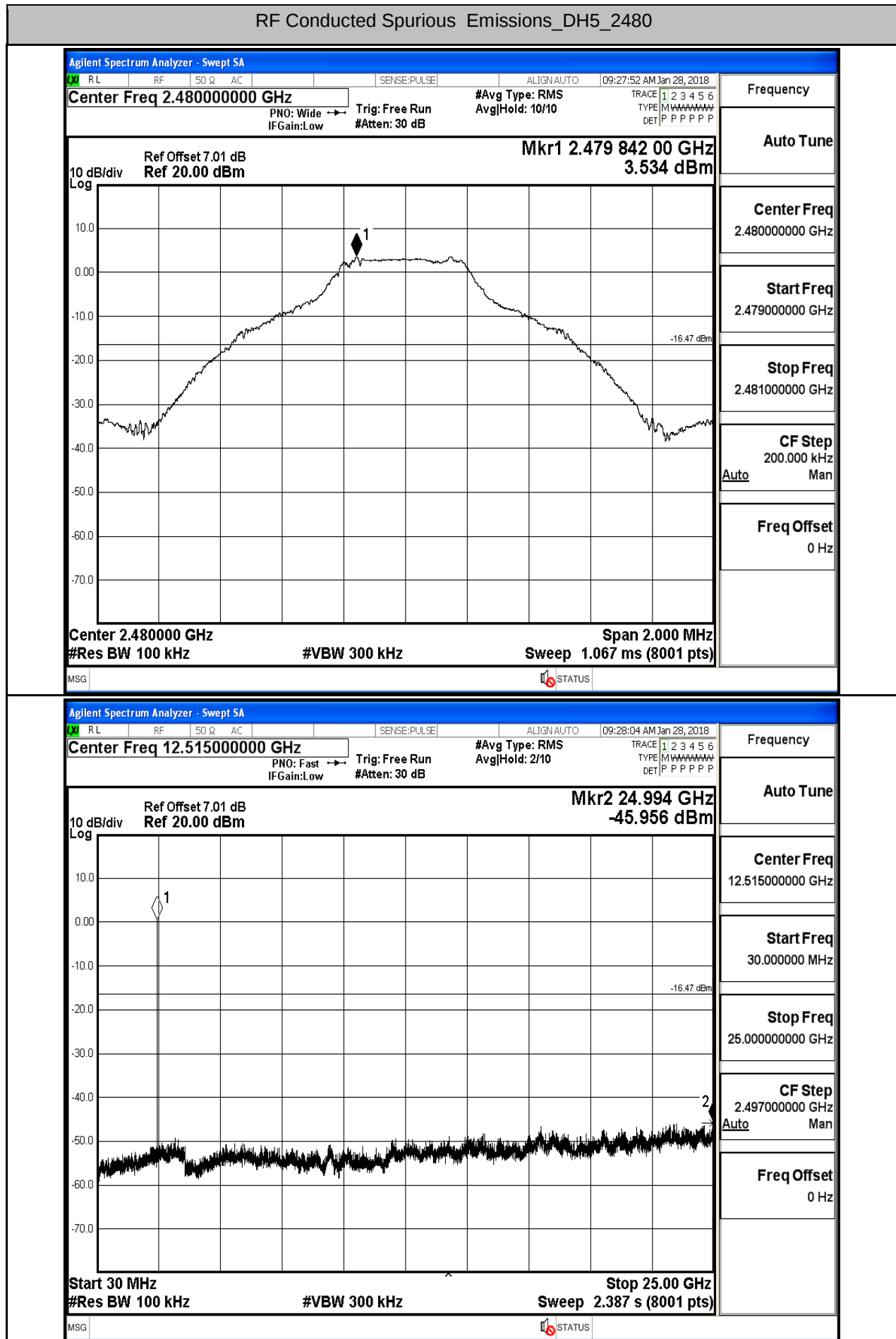
RF Conducted Spurious Emissions_DH5_2402



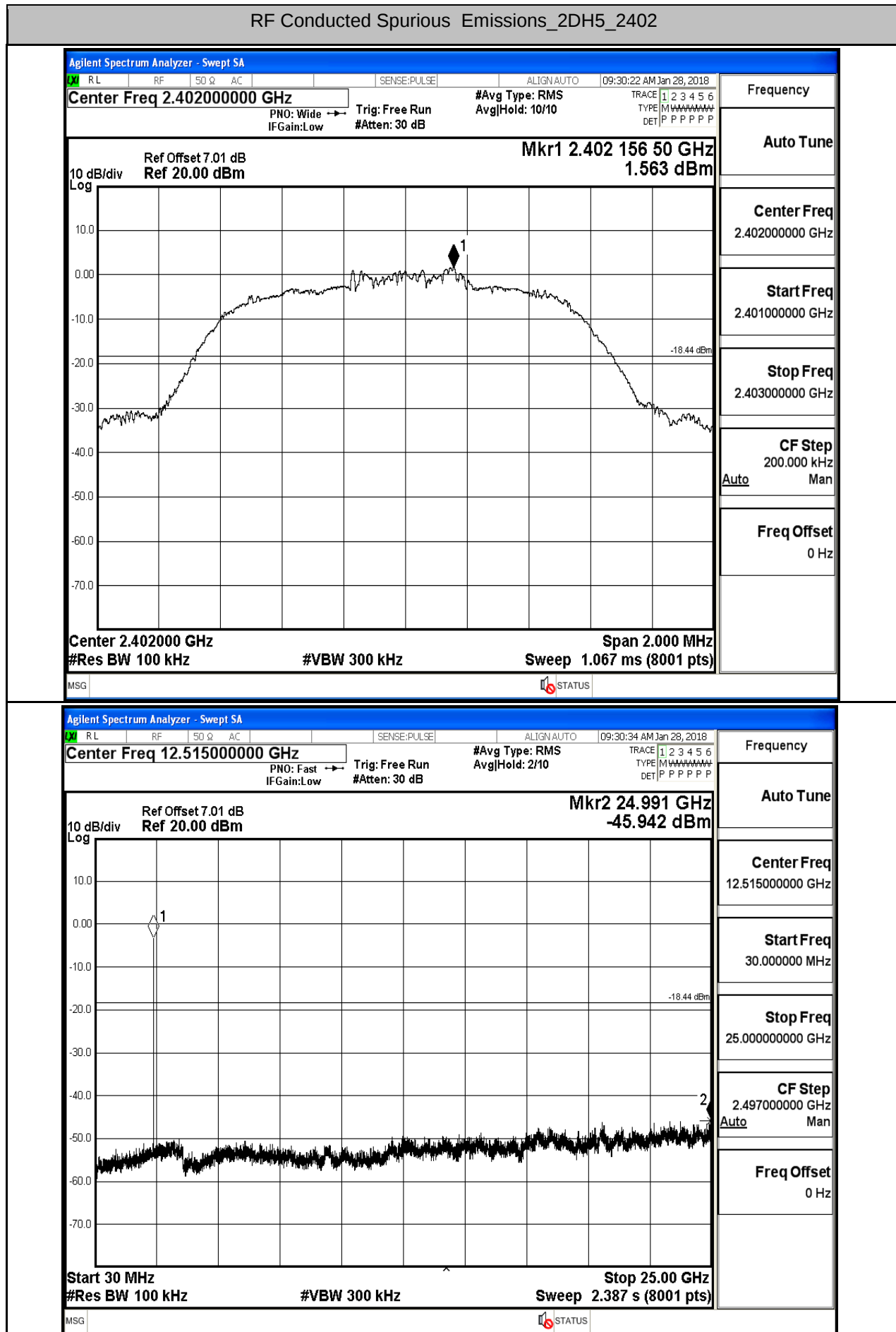
RF Conducted Spurious Emissions_DH5_2441



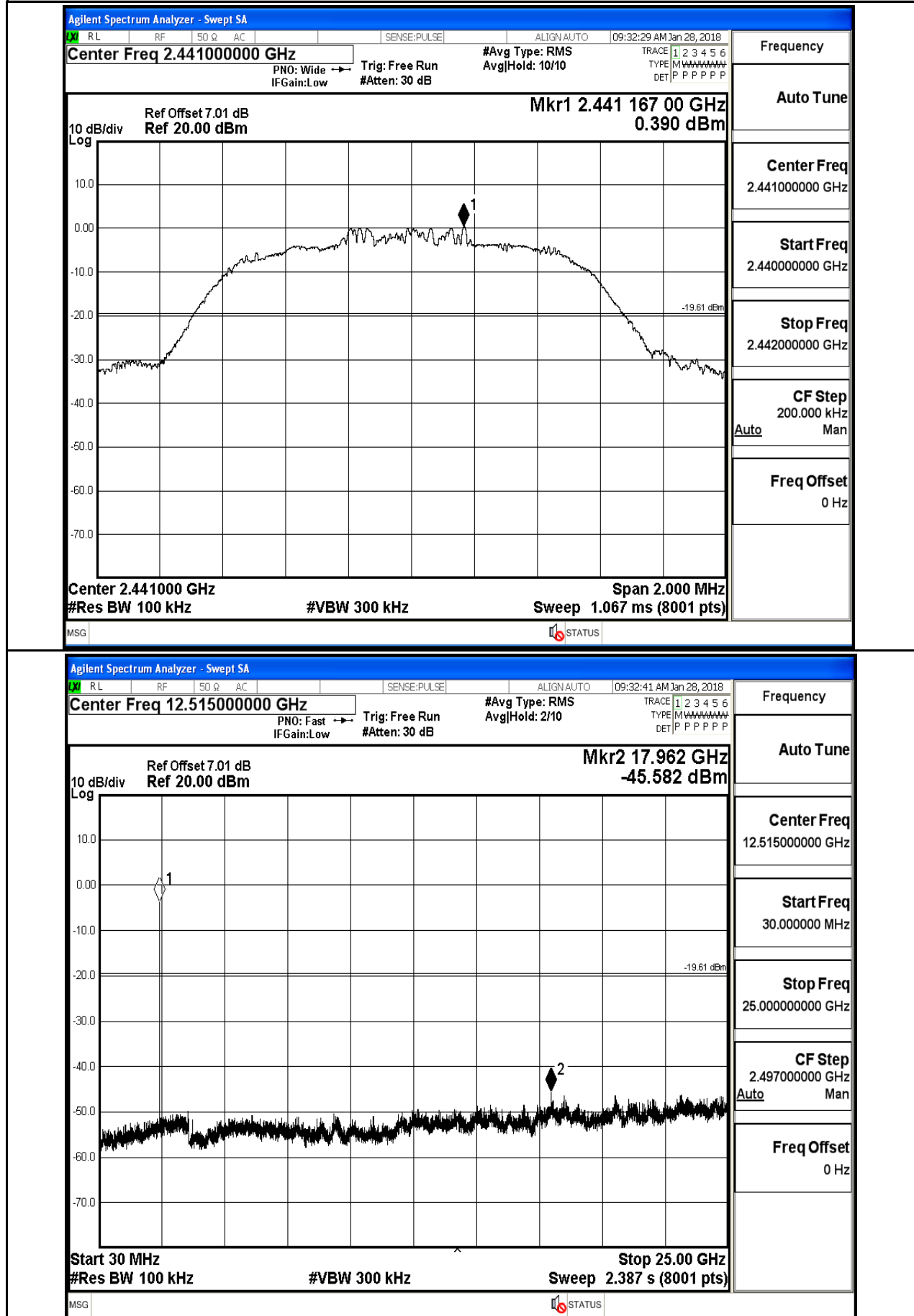
RF Conducted Spurious Emissions_DH5_2480



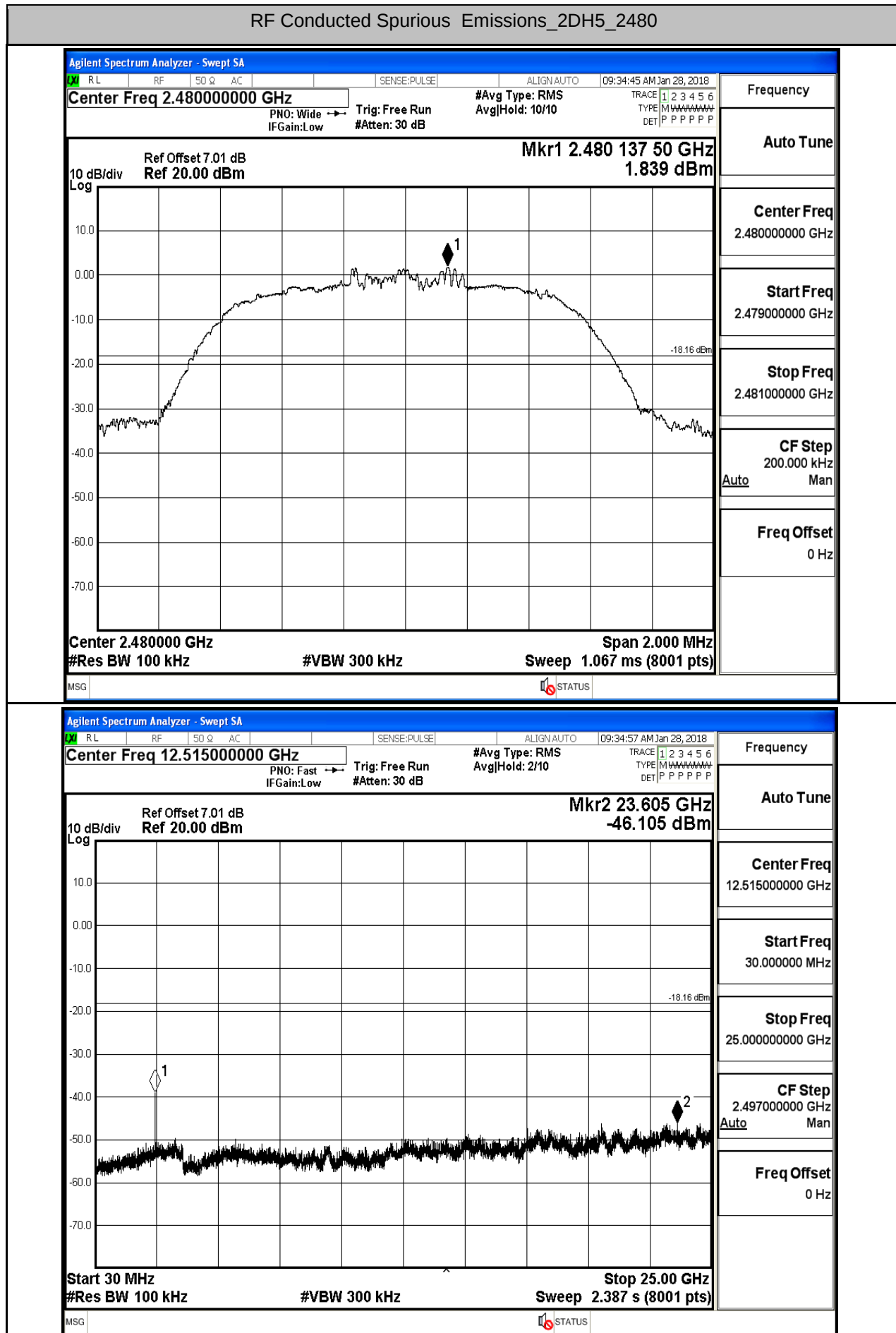
RF Conducted Spurious Emissions_2DH5_2402



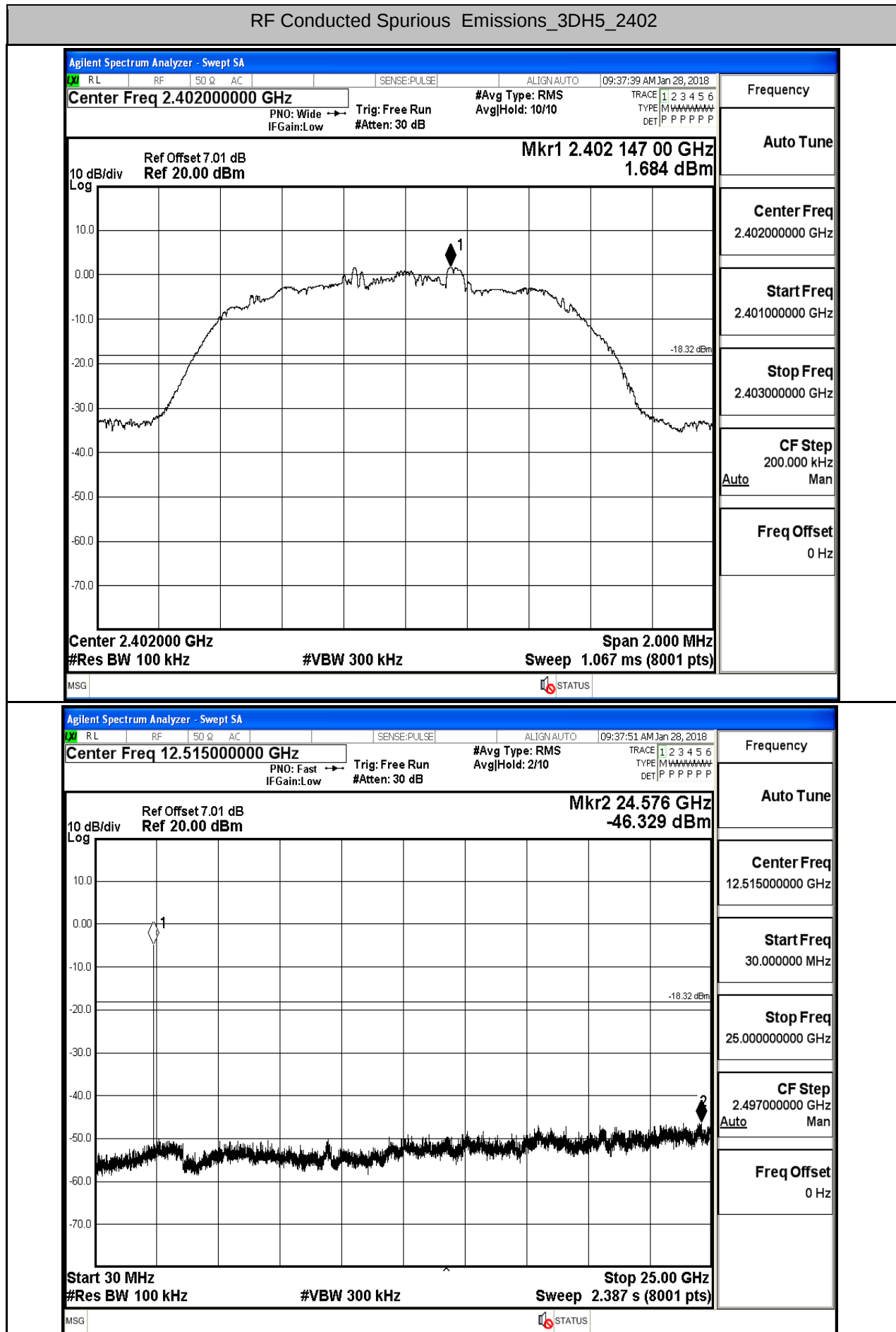
RF Conducted Spurious Emissions_2DH5_2441



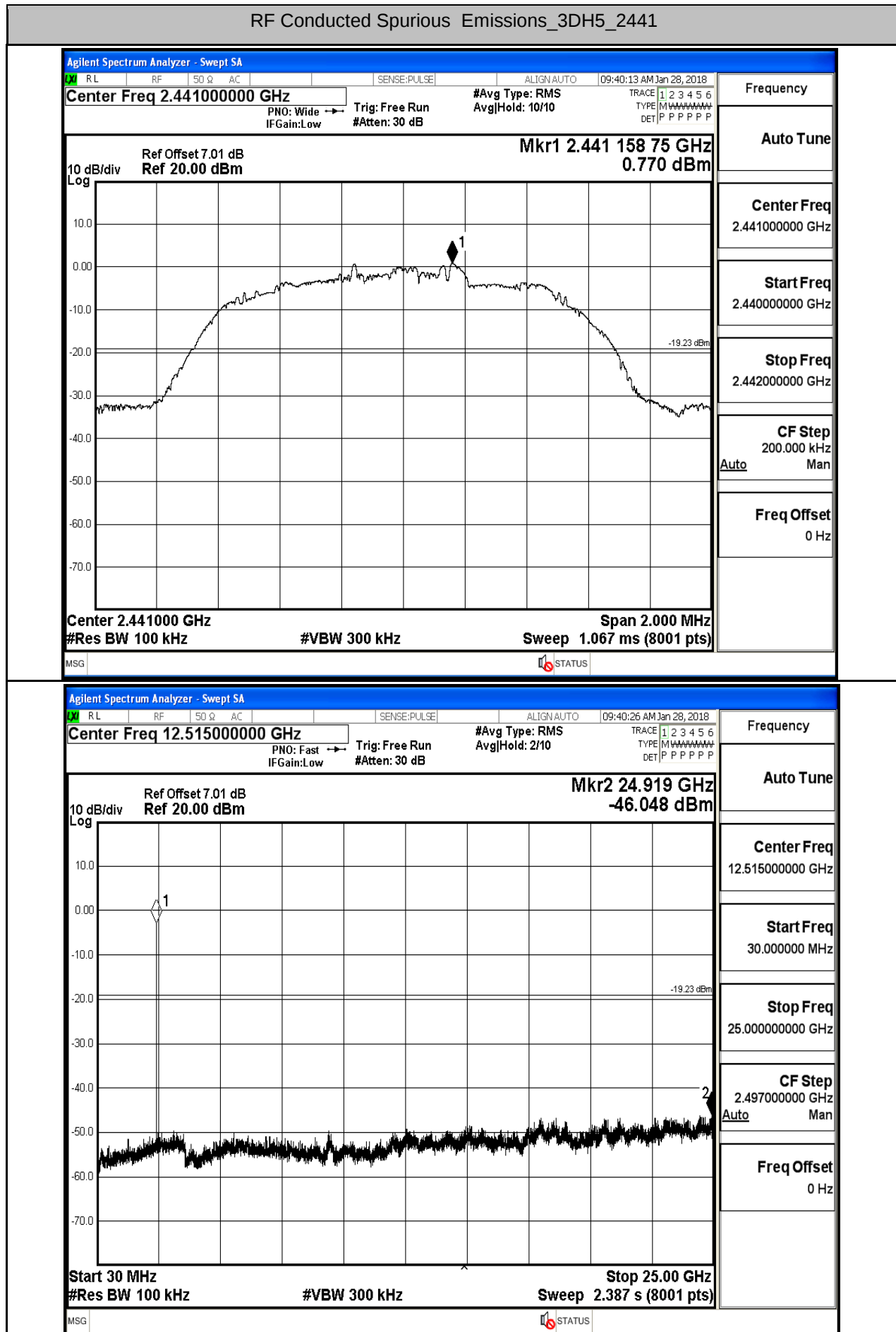
RF Conducted Spurious Emissions_2DH5_2480



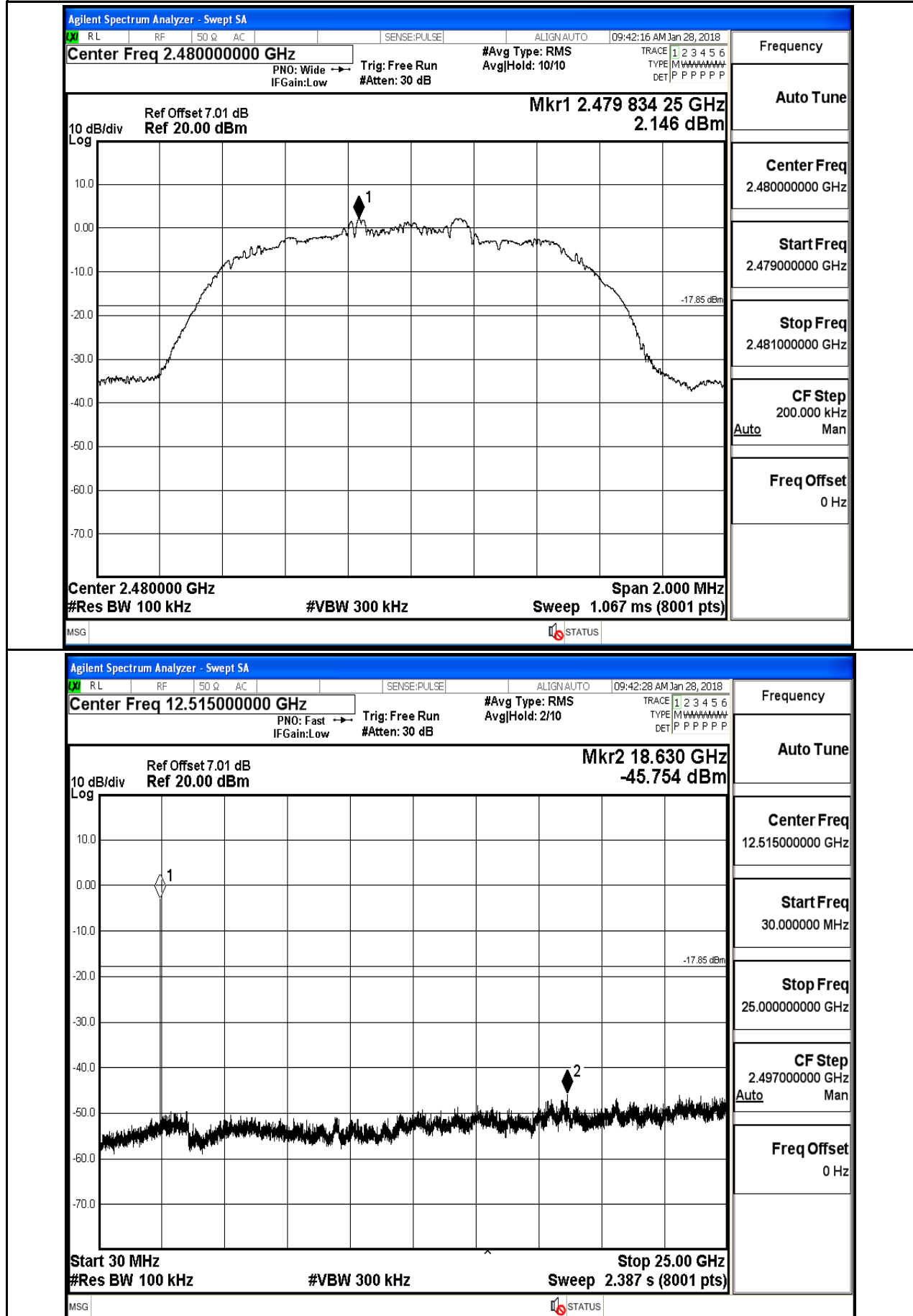
RF Conducted Spurious Emissions_3DH5_2402



RF Conducted Spurious Emissions_3DH5_2441

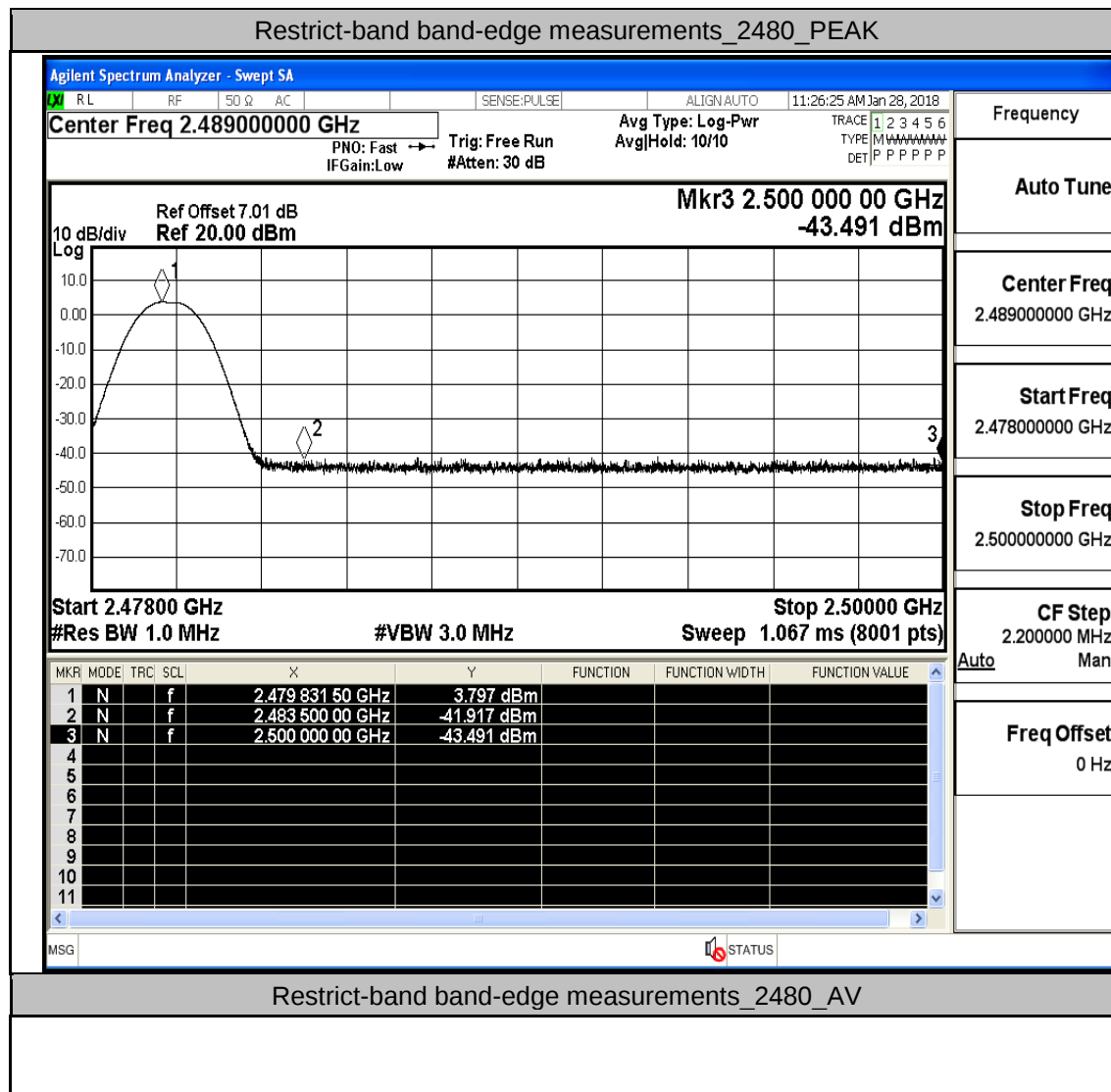


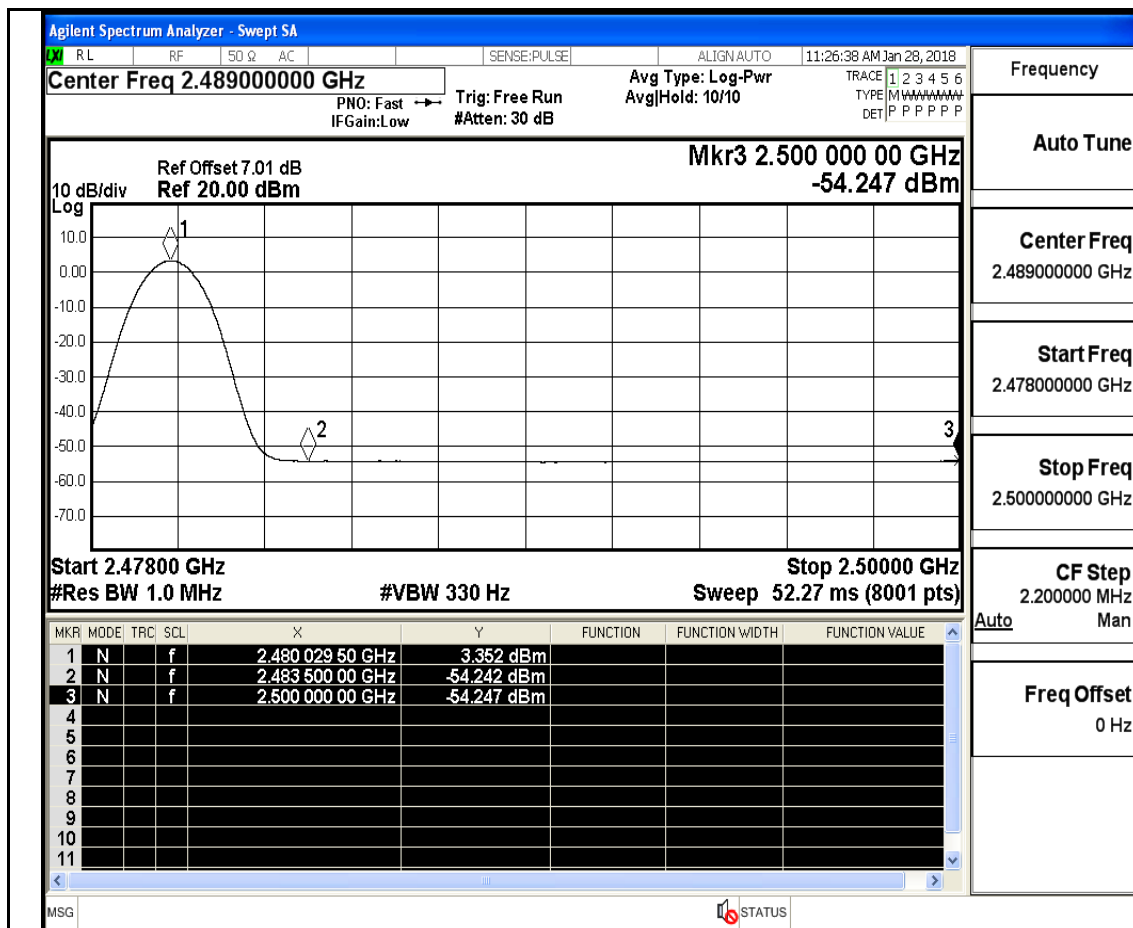
RF Conducted Spurious Emissions_3DH5_2480



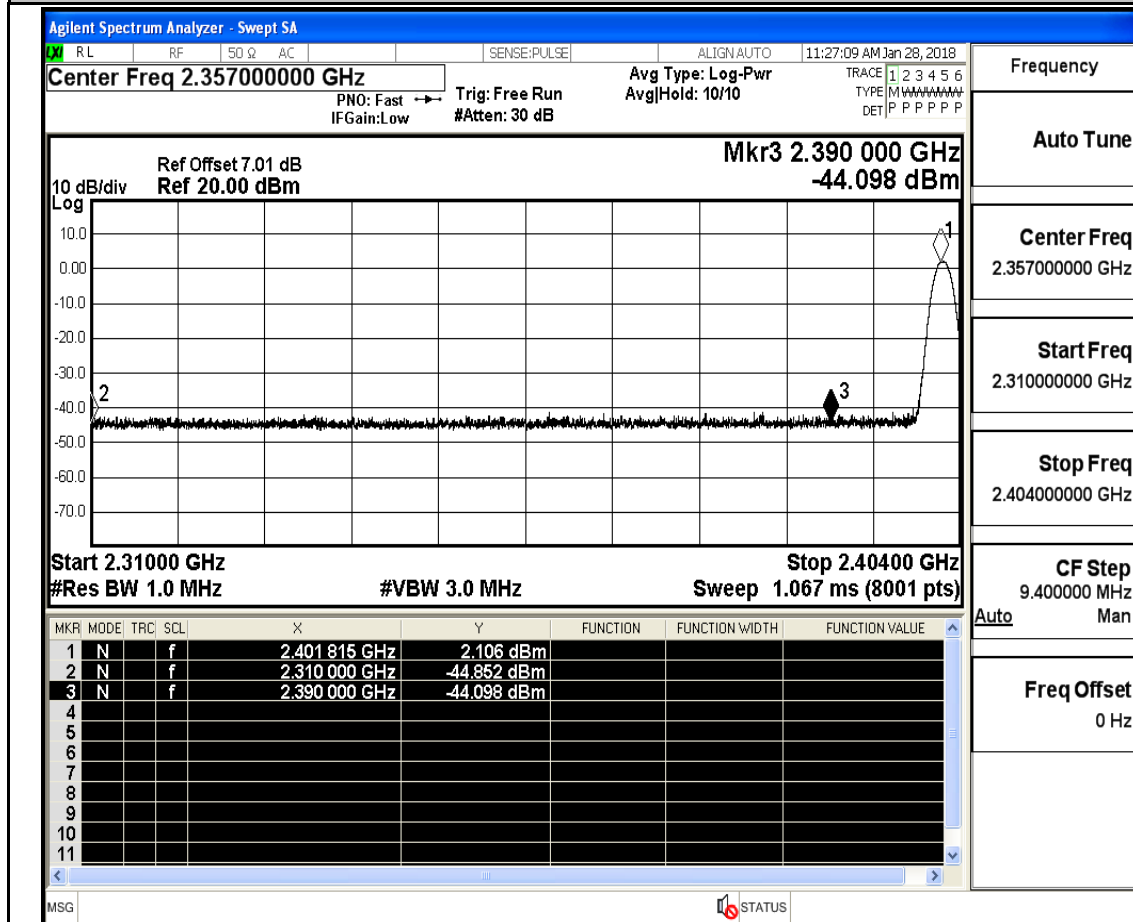
8.Restrict-band band-edge measurements

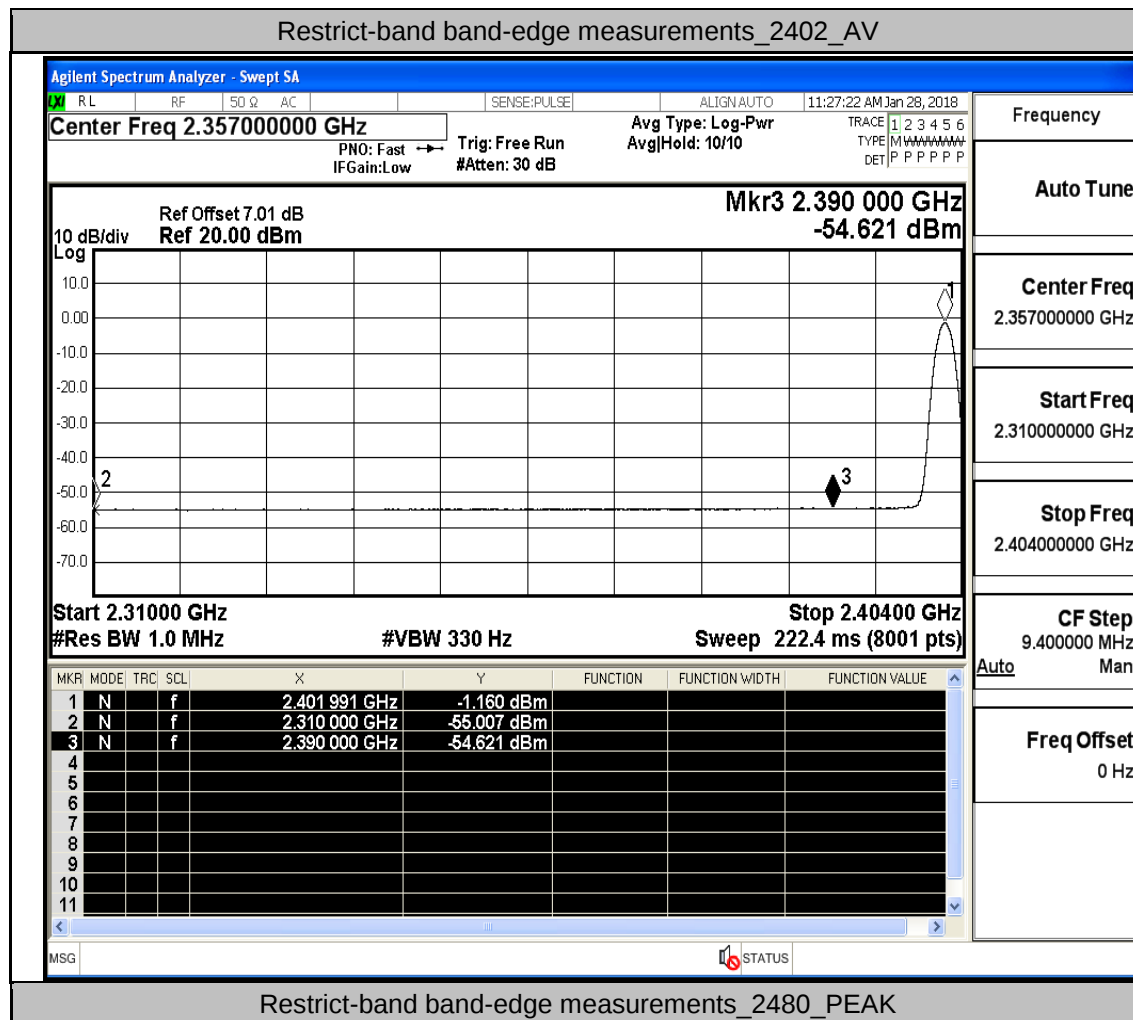
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
DH5	On	2310.0	-44.12	2	0	53.14	PEAK	74	PASS
DH5	On	2310.0	-54.94	2	0	42.32	AV	54	PASS
DH5	On	2390.0	-44.54	2	0	52.72	PEAK	74	PASS
DH5	On	2390.0	-54.68	2	0	42.58	AV	54	PASS
DH5	On	2483.5	-41.92	2	0	55.34	PEAK	74	PASS
DH5	On	2483.5	-54.24	2	0	43.02	AV	54	PASS
DH5	On	2500.0	-43.49	2	0	53.77	PEAK	74	PASS
DH5	On	2500.0	-54.25	2	0	43.01	AV	54	PASS
2DH5	On	2310.0	-44.85	2	0	52.41	PEAK	74	PASS
2DH5	On	2310.0	-55.01	2	0	42.25	AV	54	PASS
2DH5	On	2390.0	-44.10	2	0	53.16	PEAK	74	PASS
2DH5	On	2390.0	-54.62	2	0	42.64	AV	54	PASS
2DH5	On	2483.5	-44.15	2	0	53.10	PEAK	74	PASS
2DH5	On	2483.5	-54.13	2	0	43.13	AV	54	PASS
2DH5	On	2500.0	-43.54	2	0	53.71	PEAK	74	PASS
2DH5	On	2500.0	-54.35	2	0	42.91	AV	54	PASS
3DH5	On	2310.0	-44.41	2	0	52.85	PEAK	74	PASS
3DH5	On	2310.0	-54.91	2	0	42.35	AV	54	PASS
3DH5	On	2390.0	-44.55	2	0	52.71	PEAK	74	PASS
3DH5	On	2390.0	-54.70	2	0	42.55	AV	54	PASS
3DH5	On	2483.5	-43.68	2	0	53.58	PEAK	74	PASS
3DH5	On	2483.5	-54.03	2	0	43.23	AV	54	PASS
3DH5	On	2500.0	-45.71	2	0	51.55	PEAK	74	PASS
3DH5	On	2500.0	-54.36	2	0	42.90	AV	54	PASS

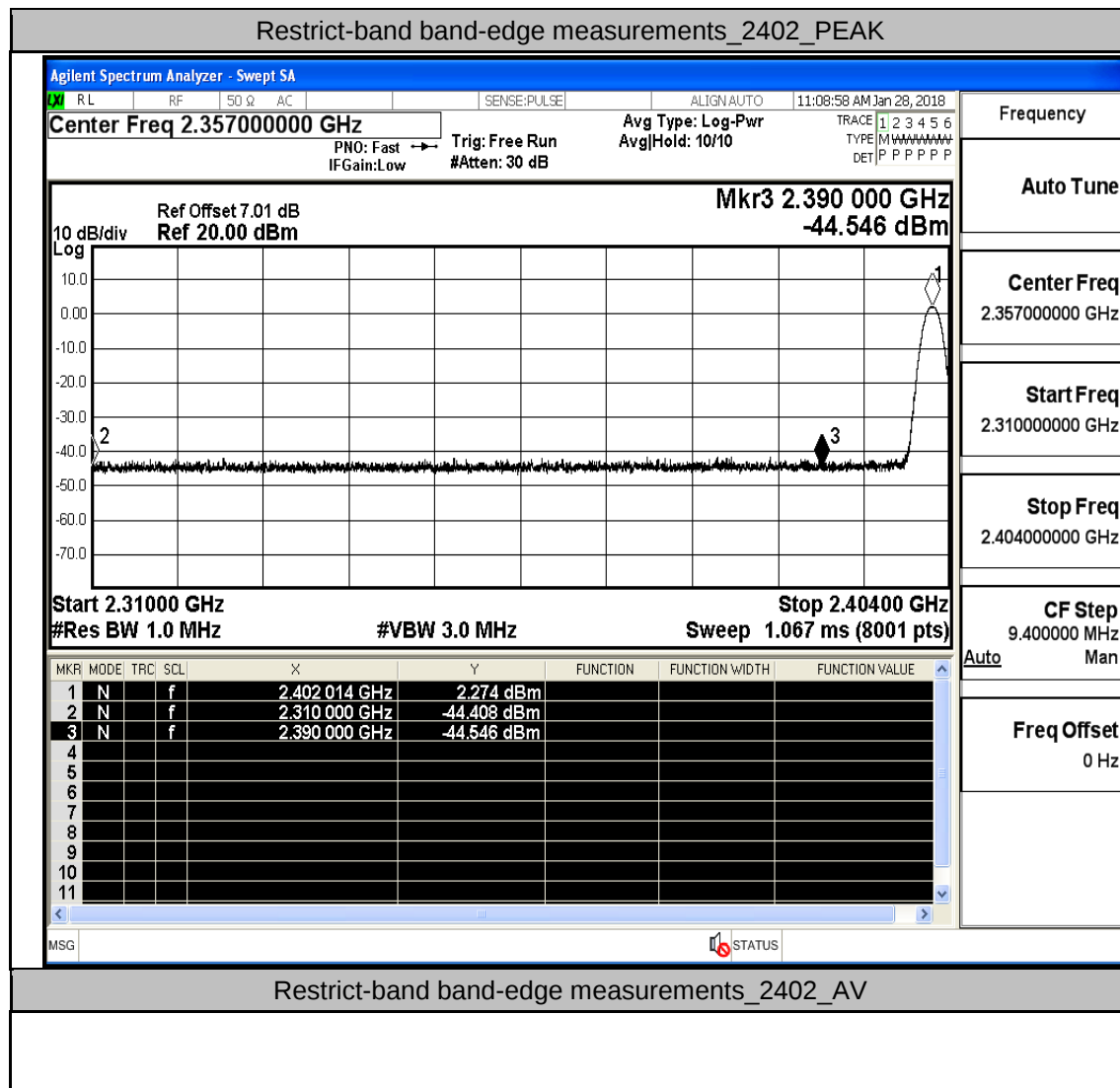


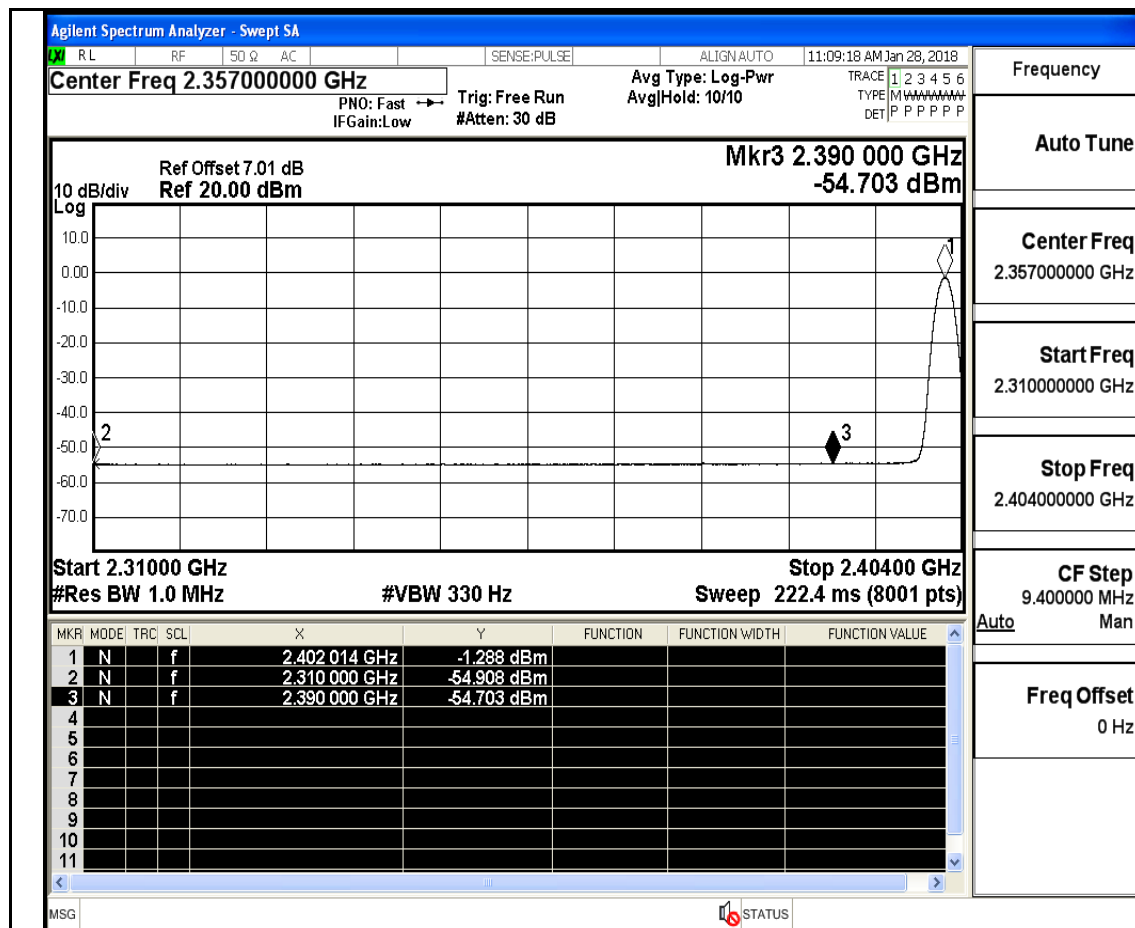


Restrict-band band-edge measurements_2402_PEAK

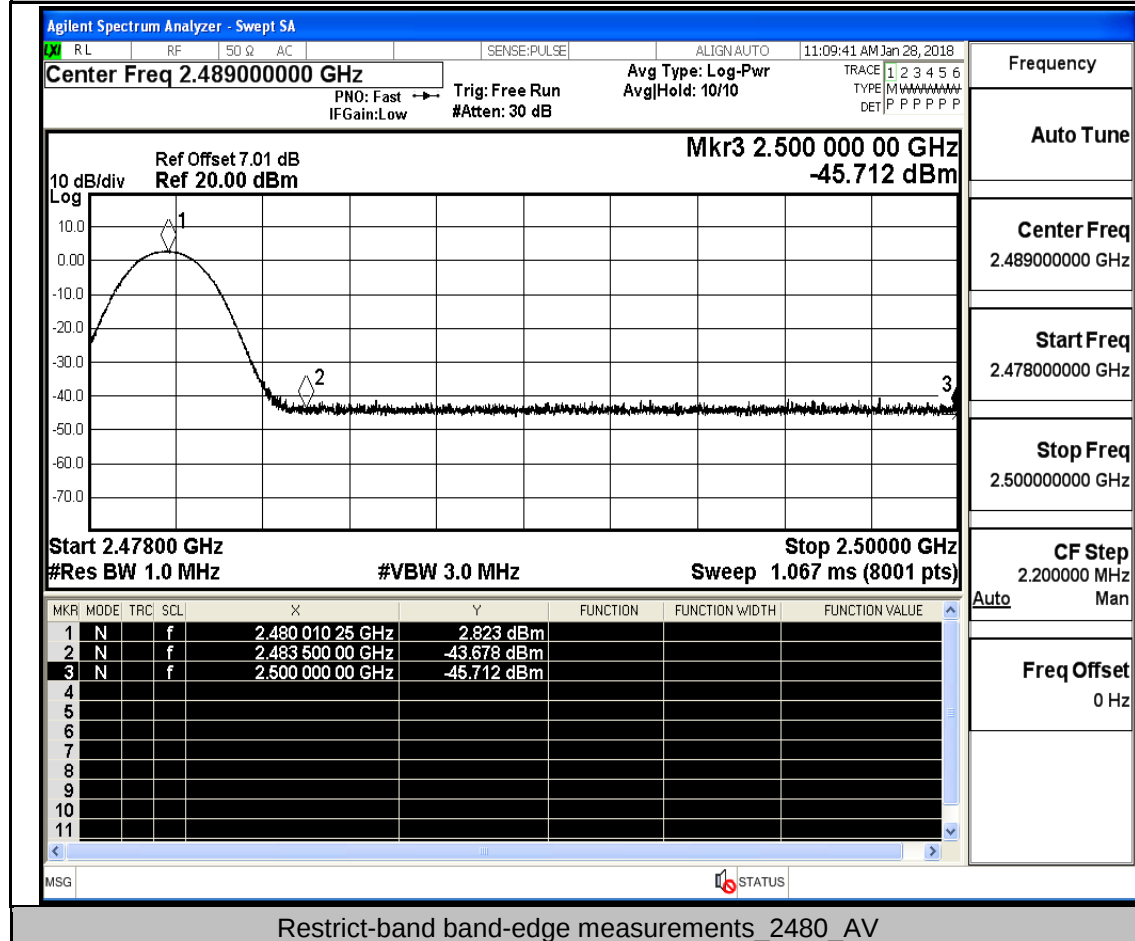








Restrict-band band-edge measurements_2480_PEAK



Restrict-band band-edge measurements_2480_AV

