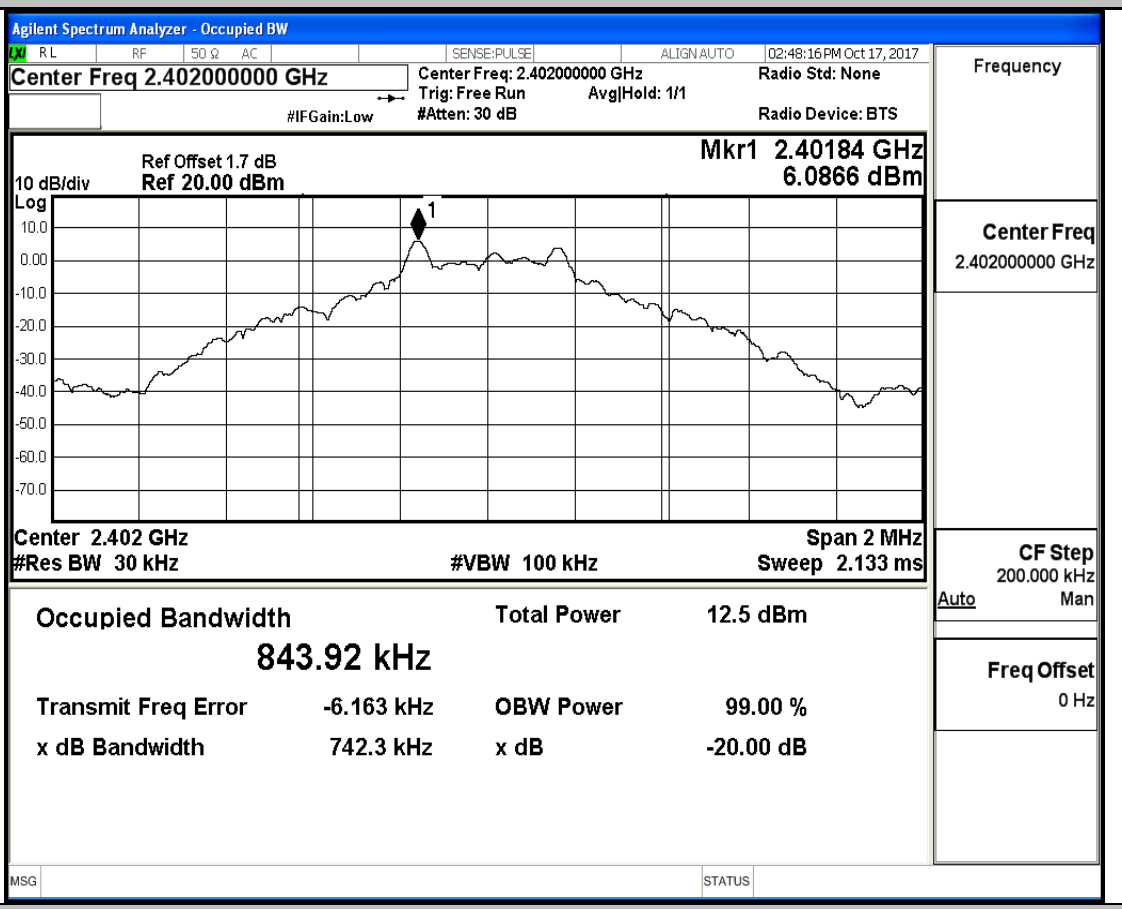
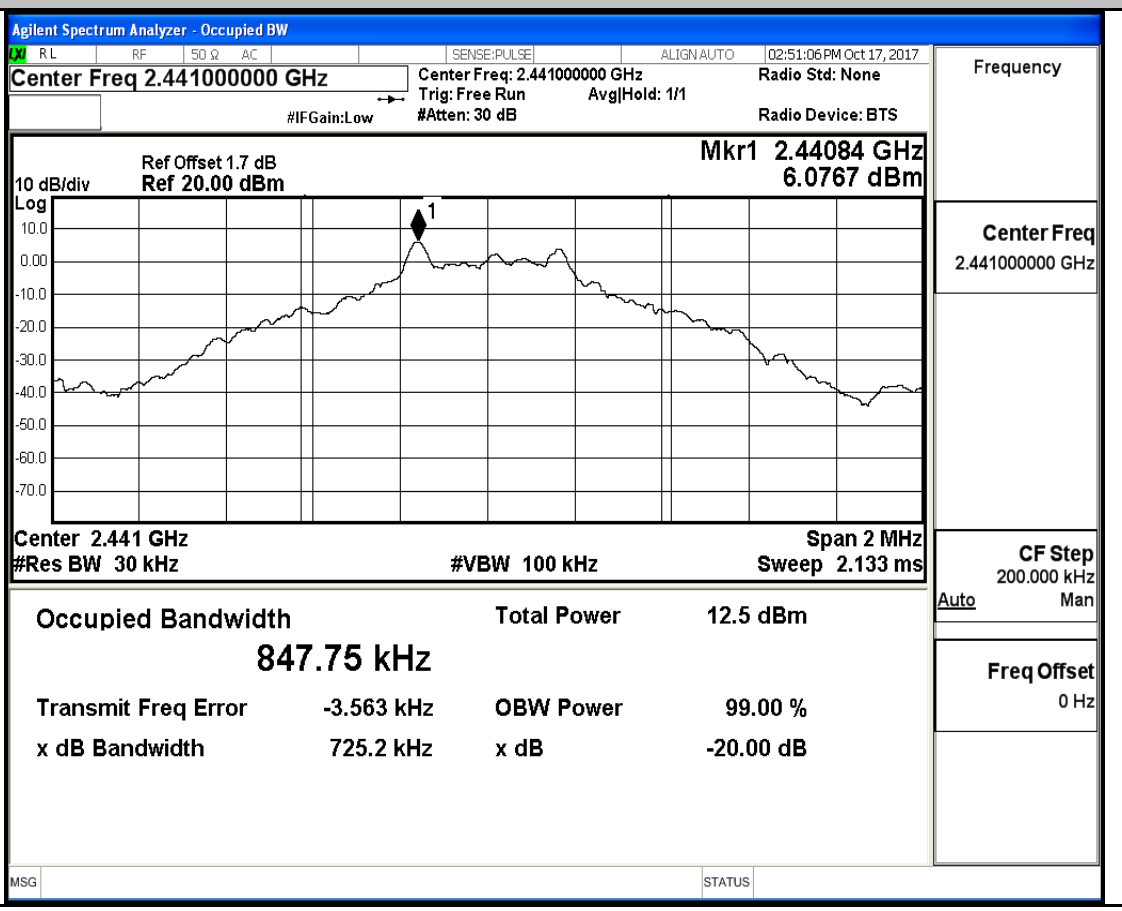
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
GFSK	2402	0.7423	---	PASS
	2441	0.7252	---	PASS
	2480	0.8295	---	PASS
π/4DQPSK	2402	1.131	---	PASS
	2441	1.120	---	PASS
	2480	1.122	---	PASS
8DPSK	2402	1.135	---	PASS
	2441	1.118	---	PASS
	2480	1.119	---	PASS

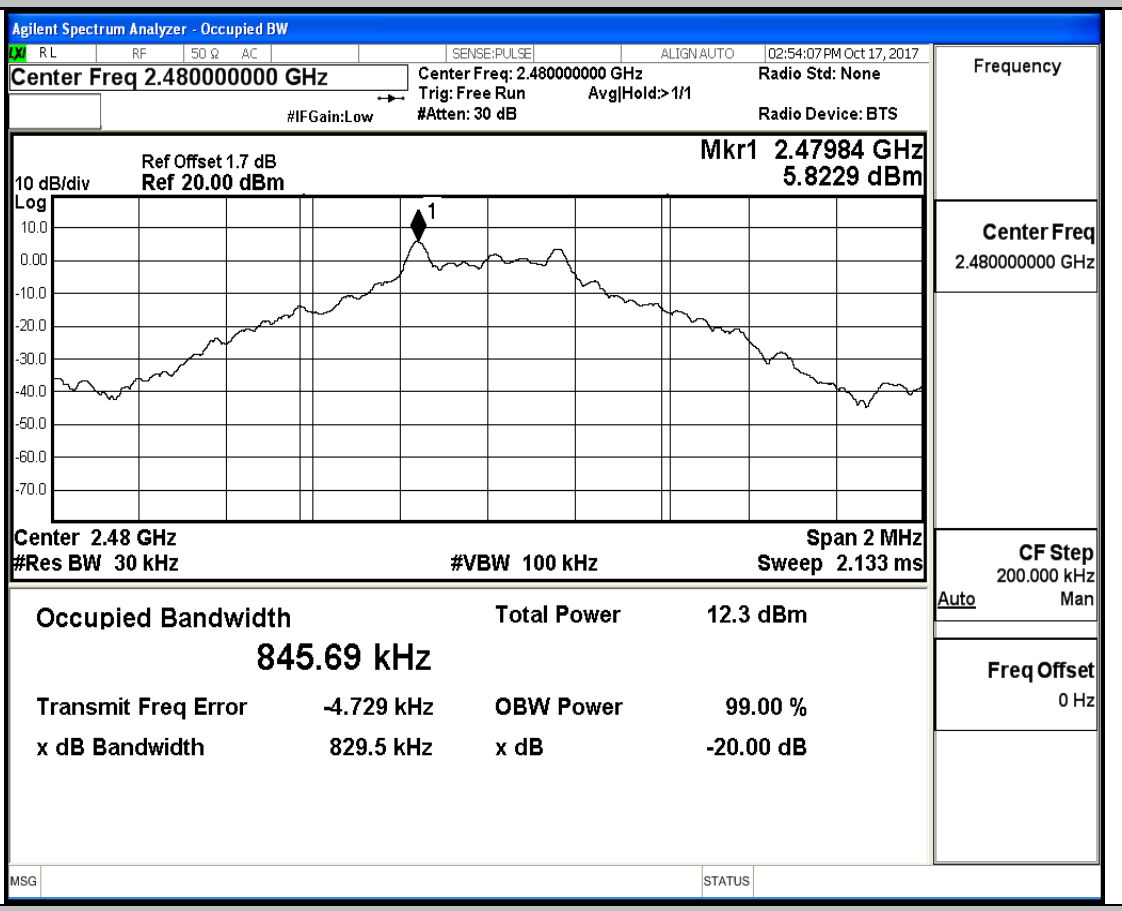
20 dB Bandwidth_DH1_2402



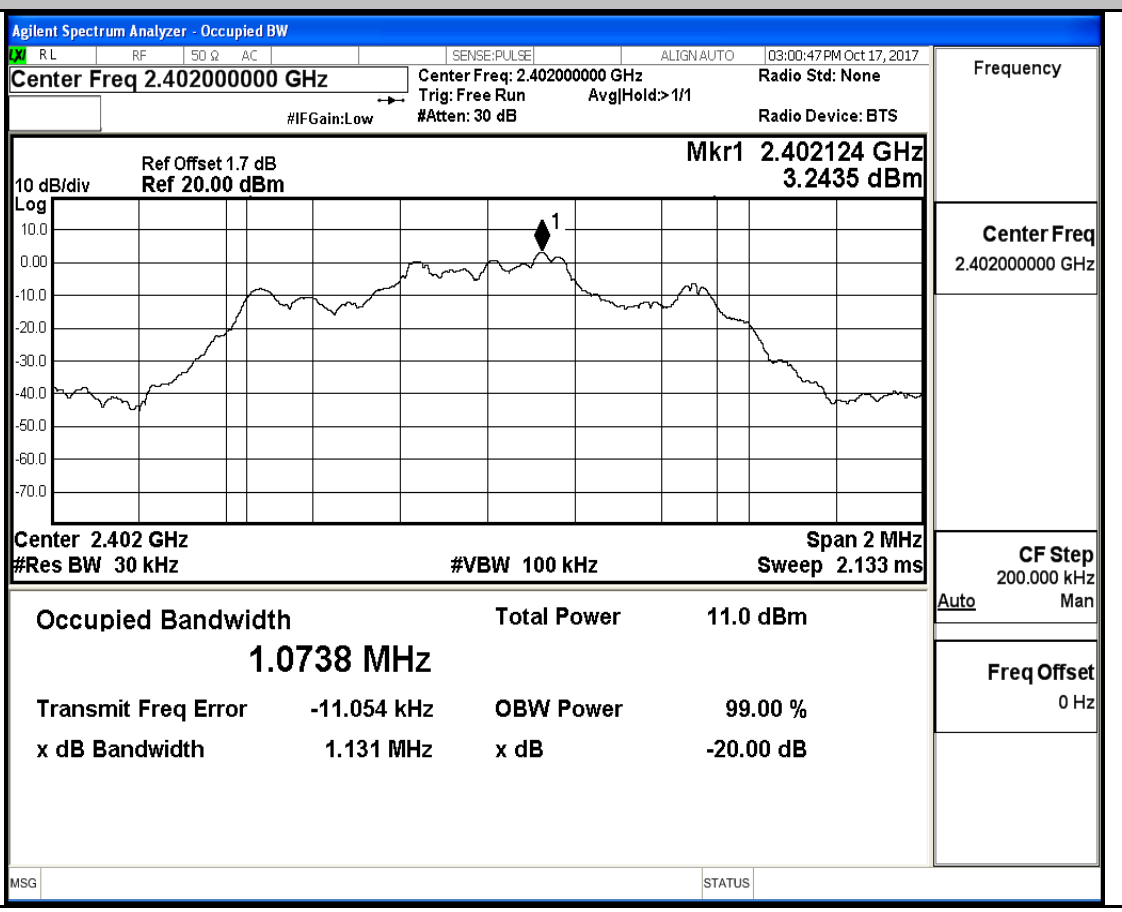
20 dB Bandwidth_DH1_2441



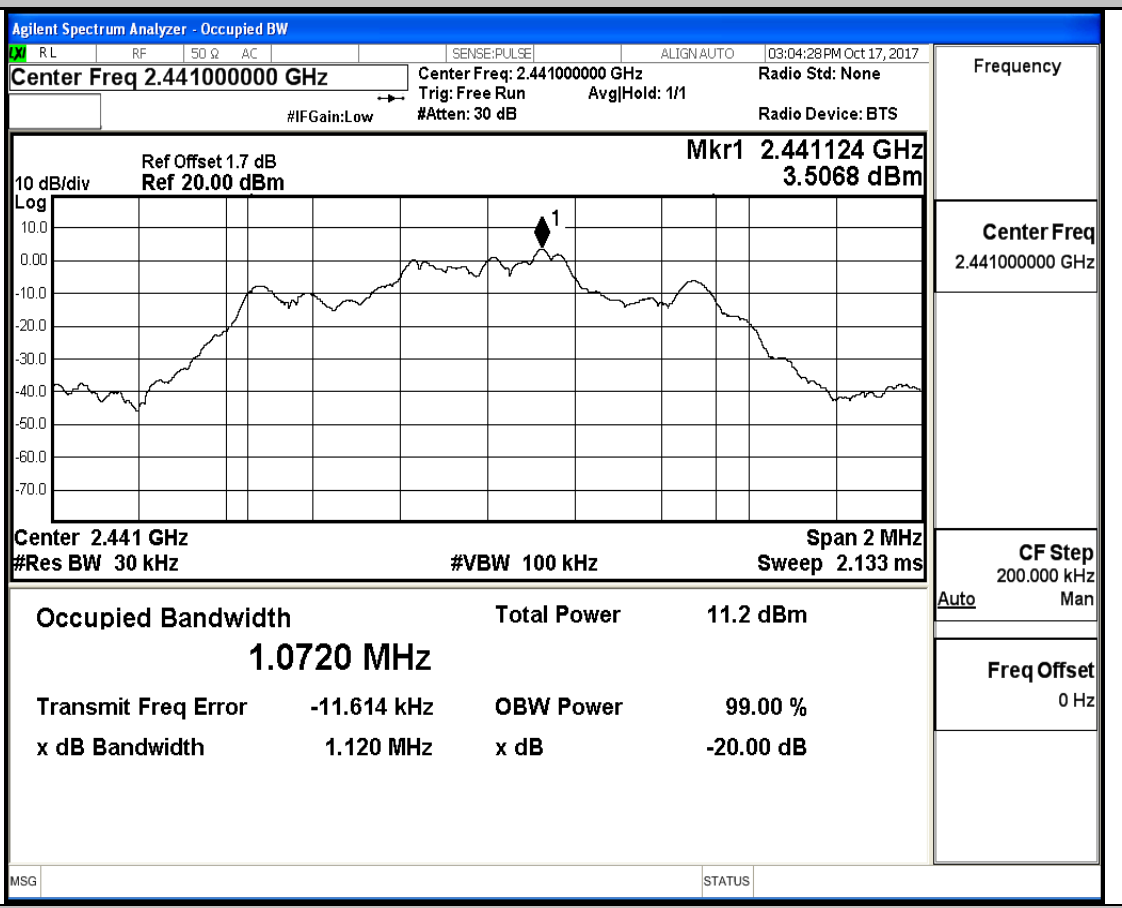
20 dB Bandwidth_DH1_2480



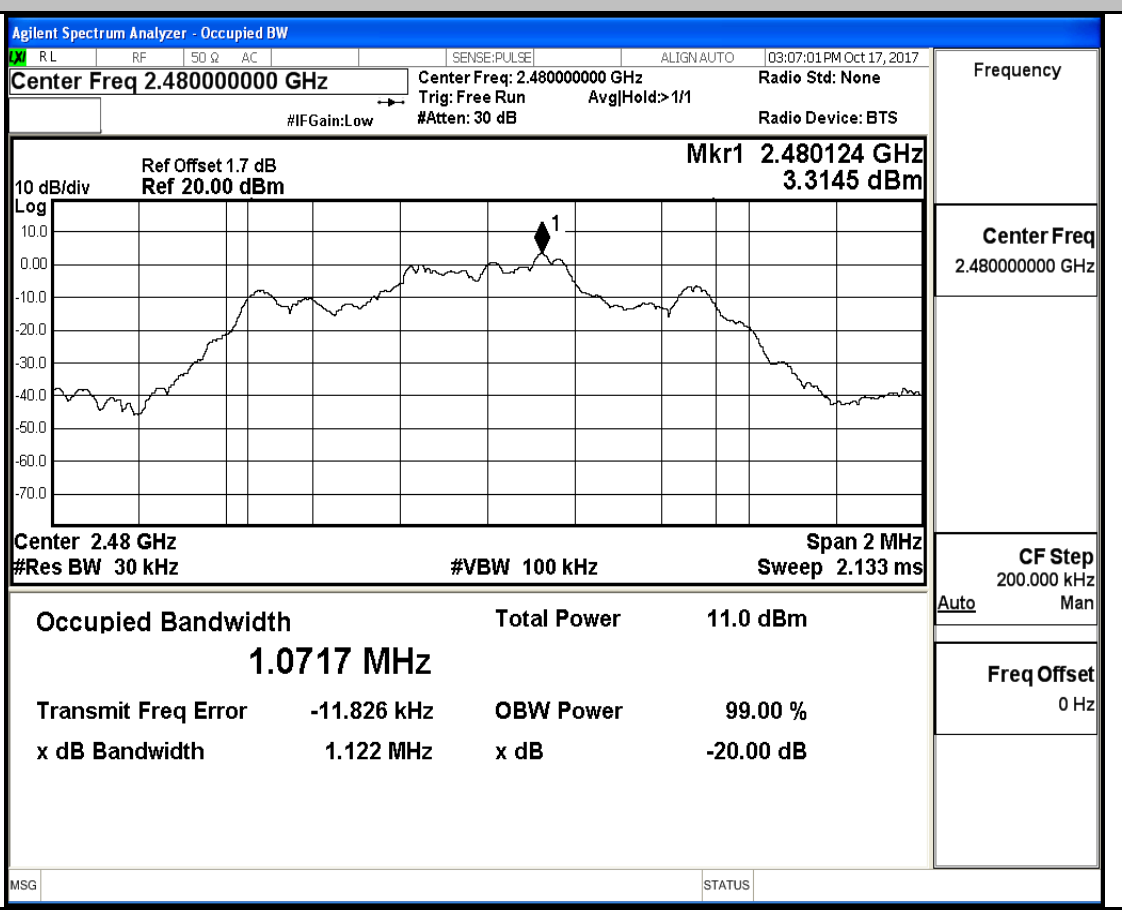
20 dB Bandwidth_2DH1_2402



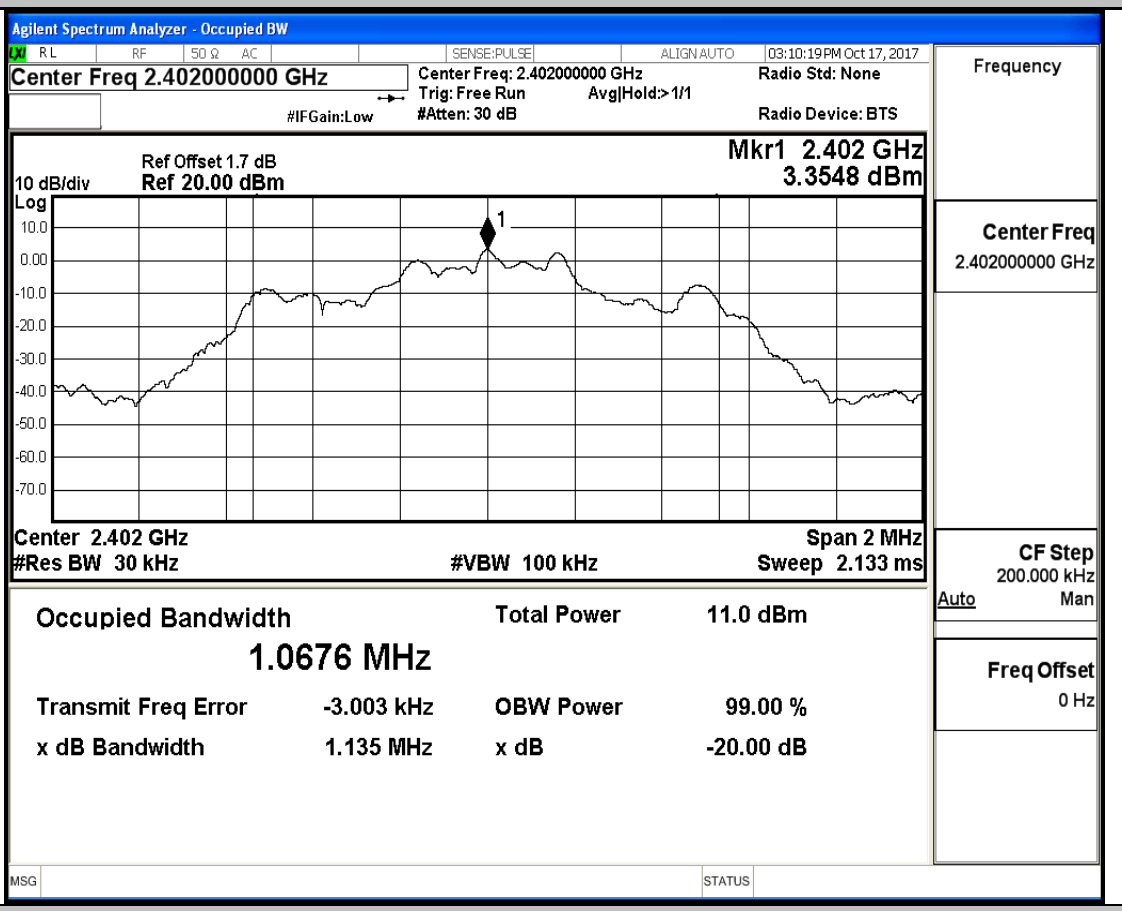
20 dB Bandwidth_2DH1_2441



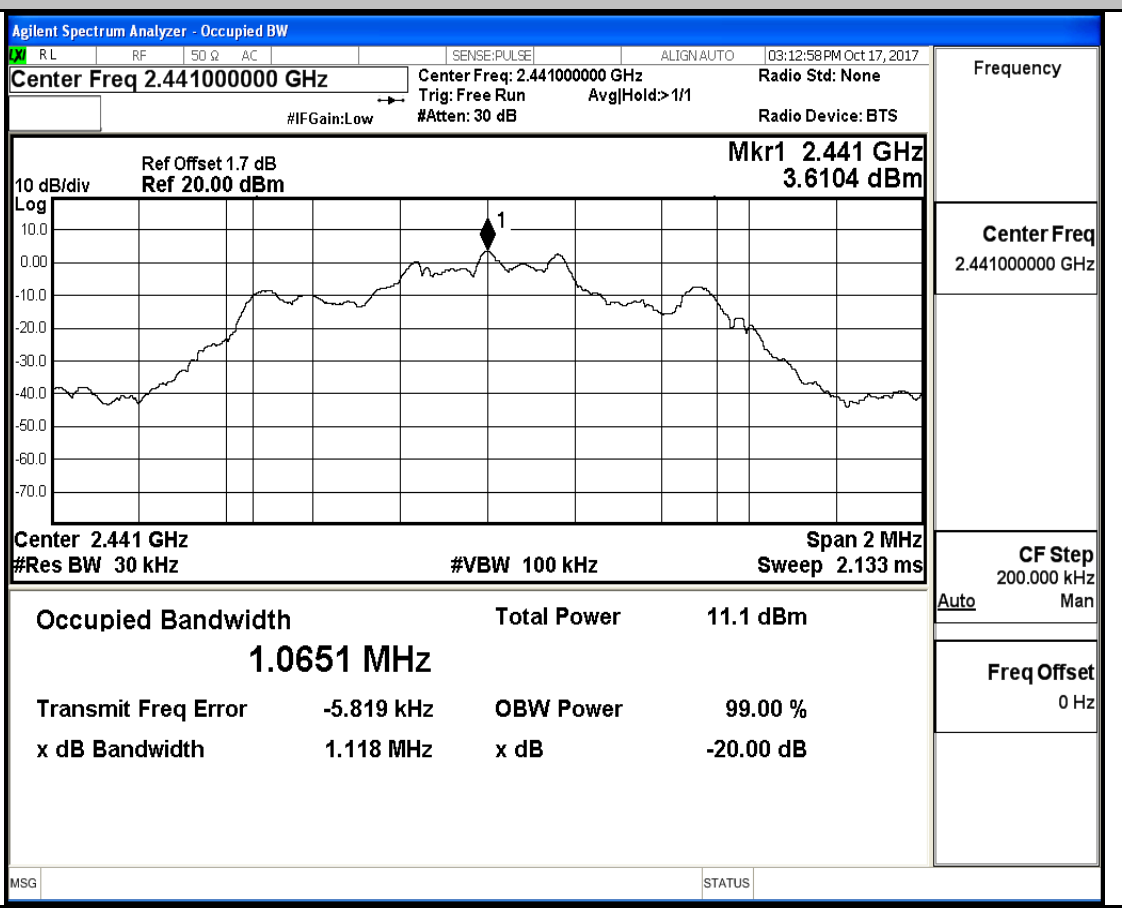
20 dB Bandwidth_2DH1_2480



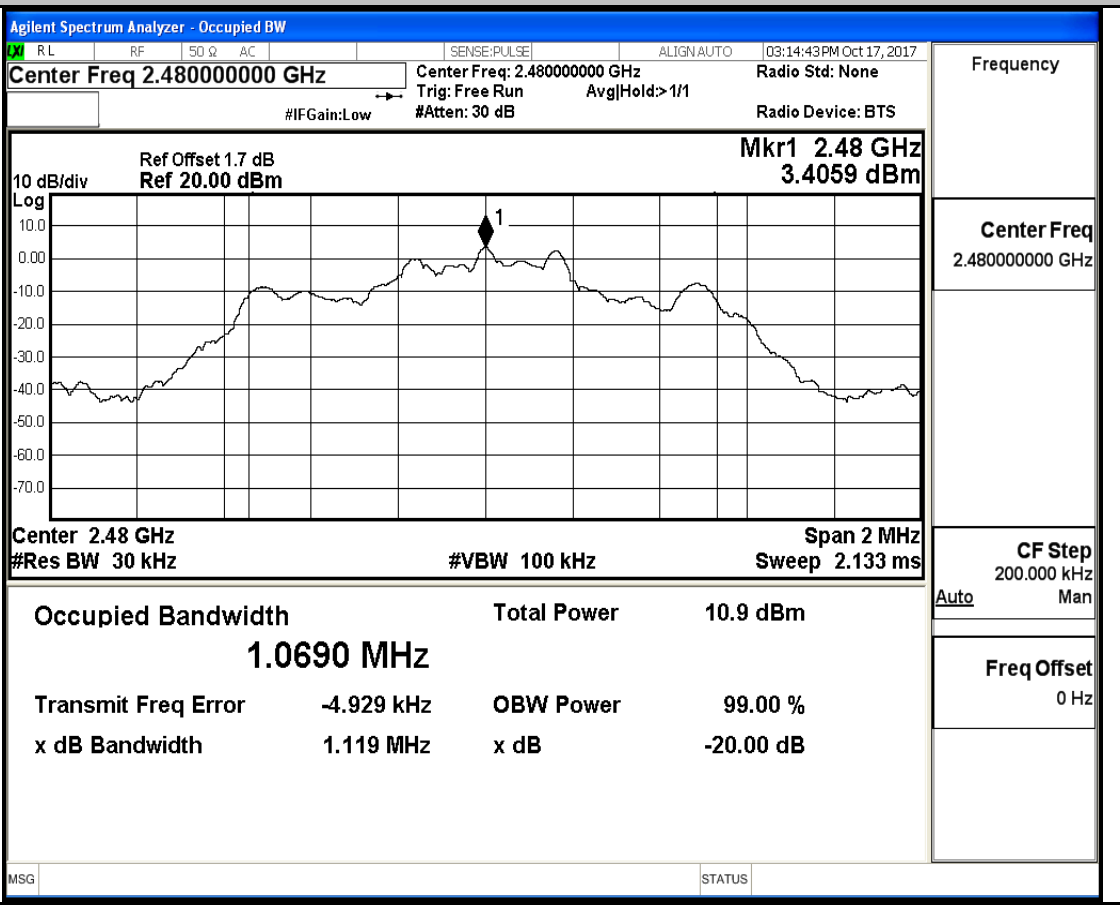
20 dB Bandwidth_3DH1_2402



20 dB Bandwidth_3DH1_2441



20 dB Bandwidth_3DH1_2480



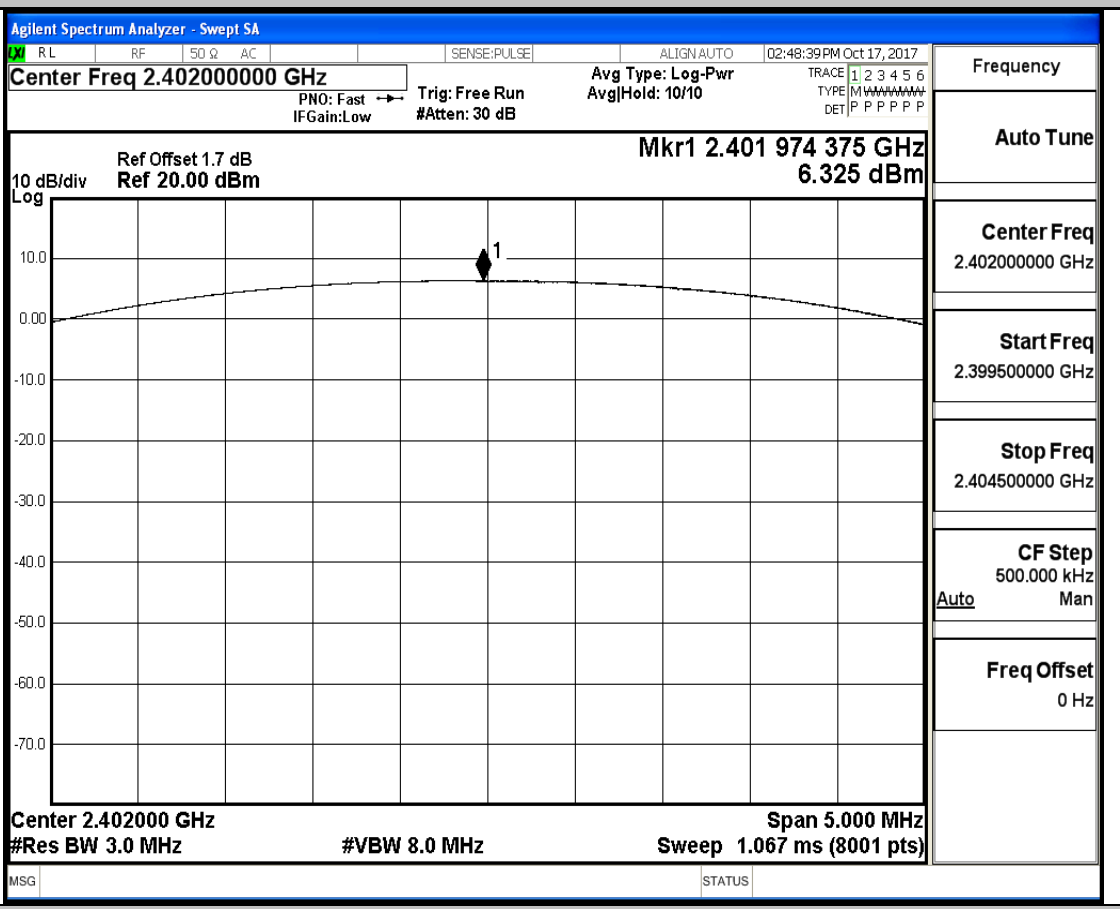
2.Occupied Bandwidth

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

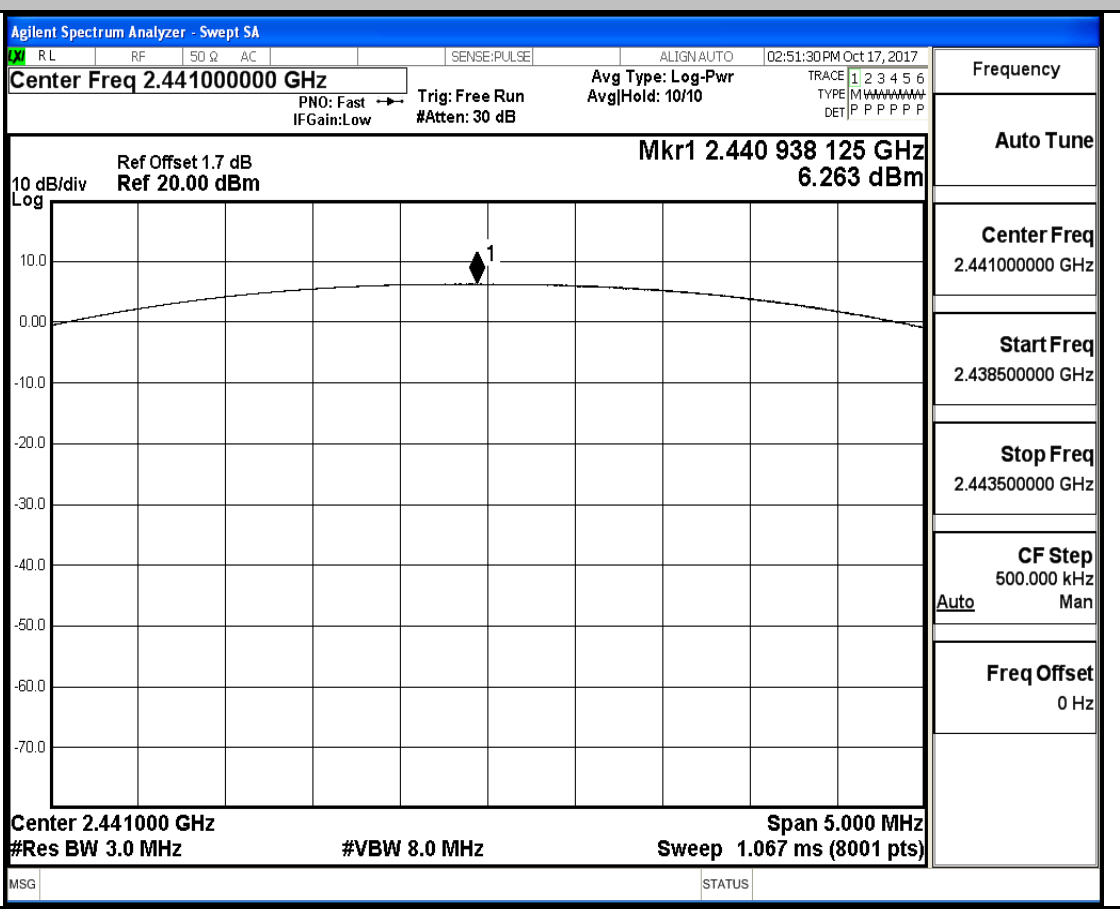
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
GFSK	2402	6.325	30	PASS
	2441	6.263	30	PASS
	2480	5.985	30	PASS
π/4DQPSK	2402	5.146	21	PASS
	2441	5.247	21	PASS
	2480	4.987	21	PASS
8DPSK	2402	5.173	21	PASS
	2441	5.289	21	PASS
	2480	5.036	21	PASS

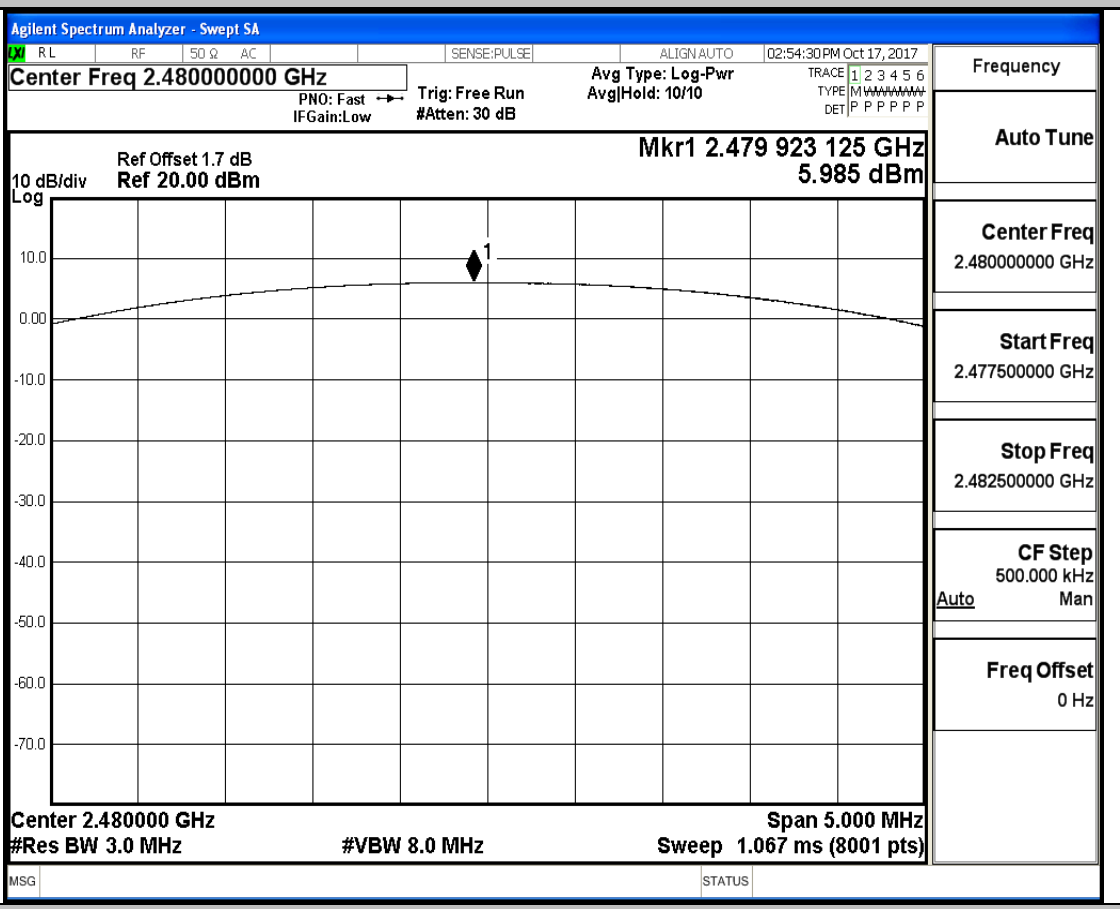
Conducted Peak Output Power_DH1_2402



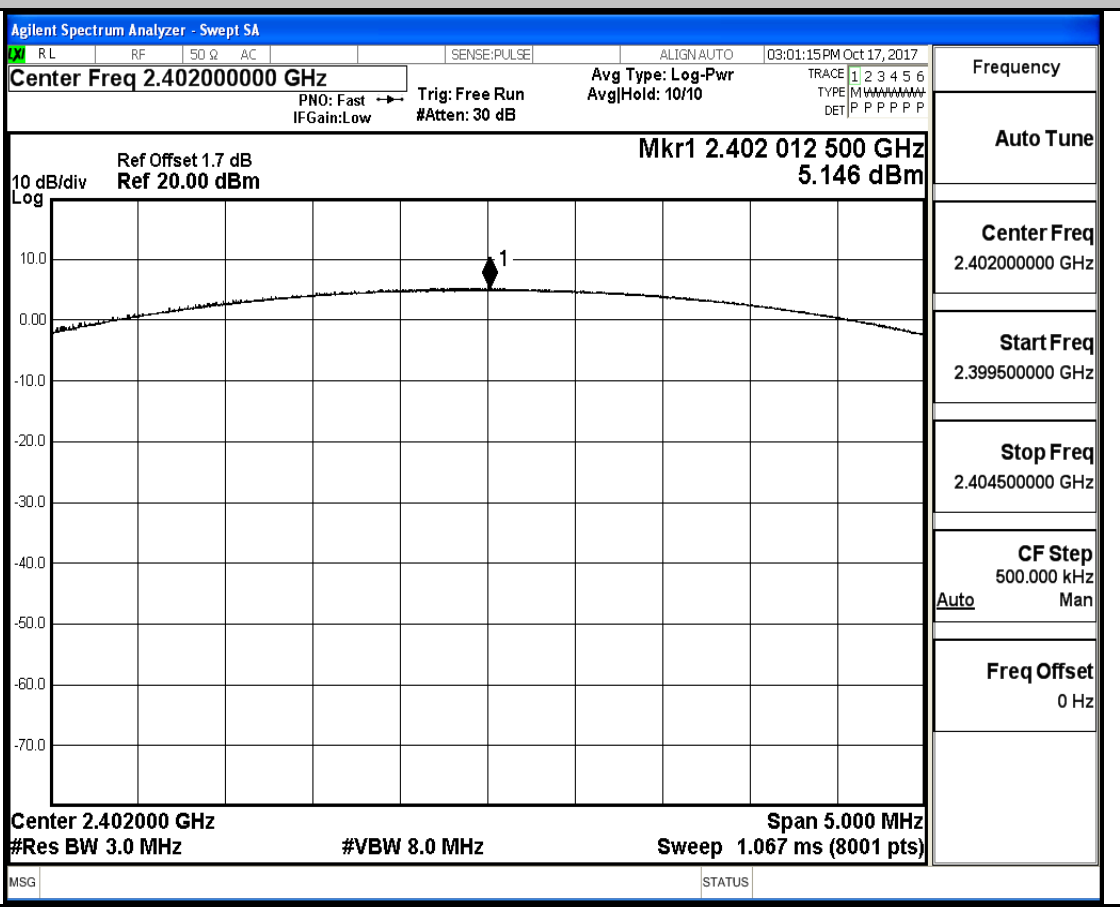
Conducted Peak Output Power_DH1_2441



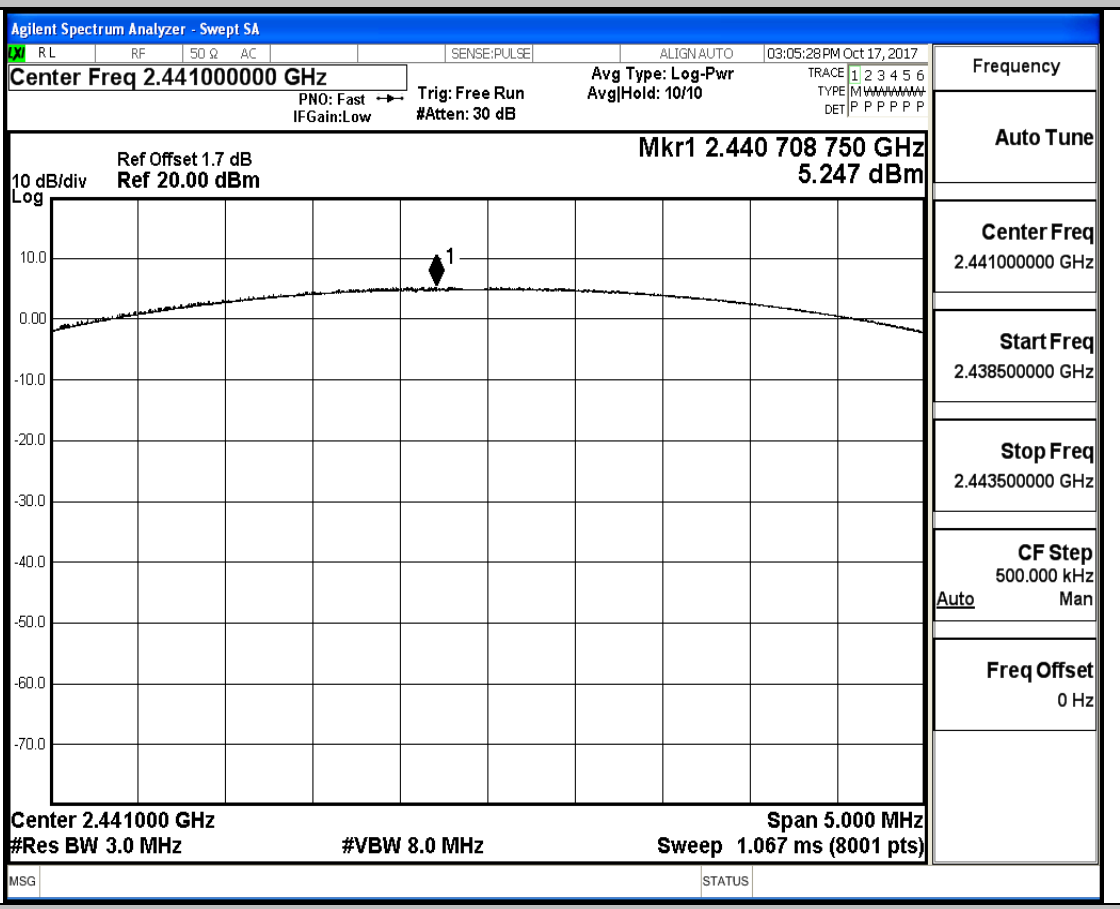
Conducted Peak Output Power_DH1_2480



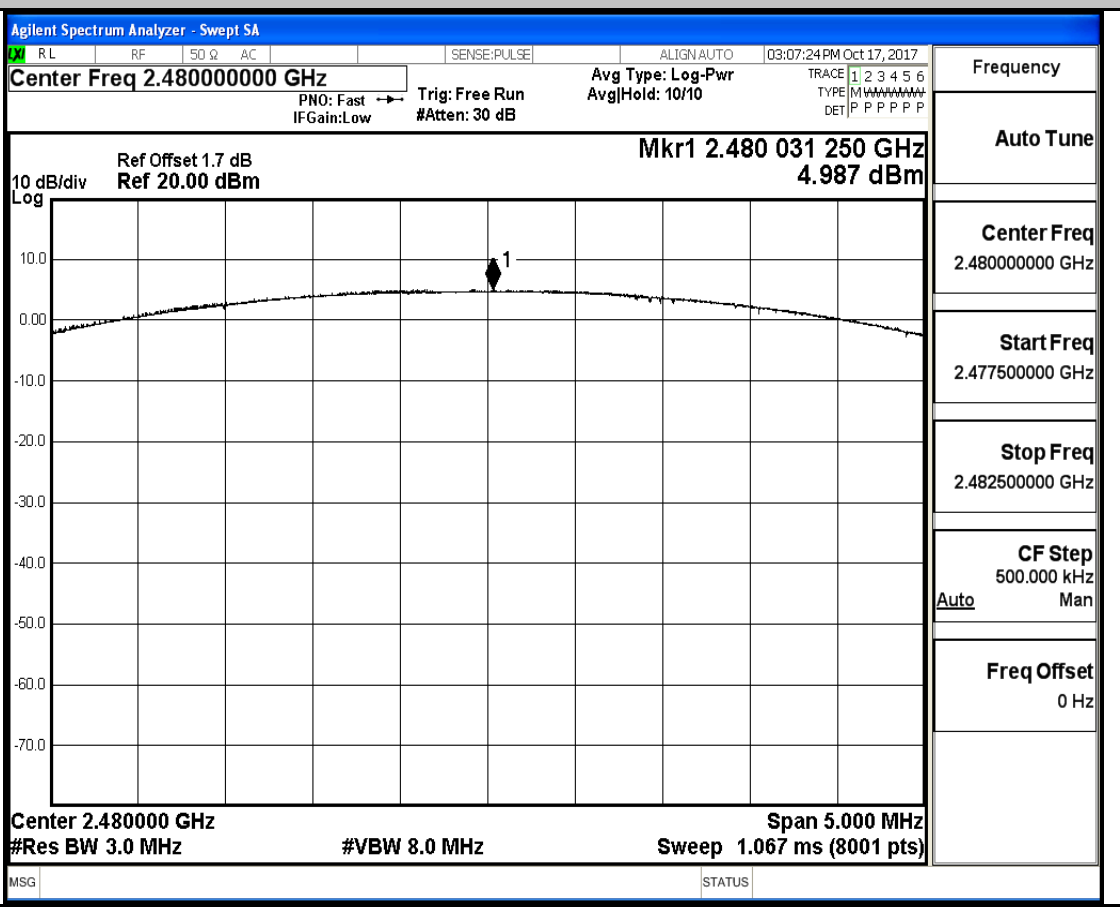
Conducted Peak Output Power_2DH1_2402



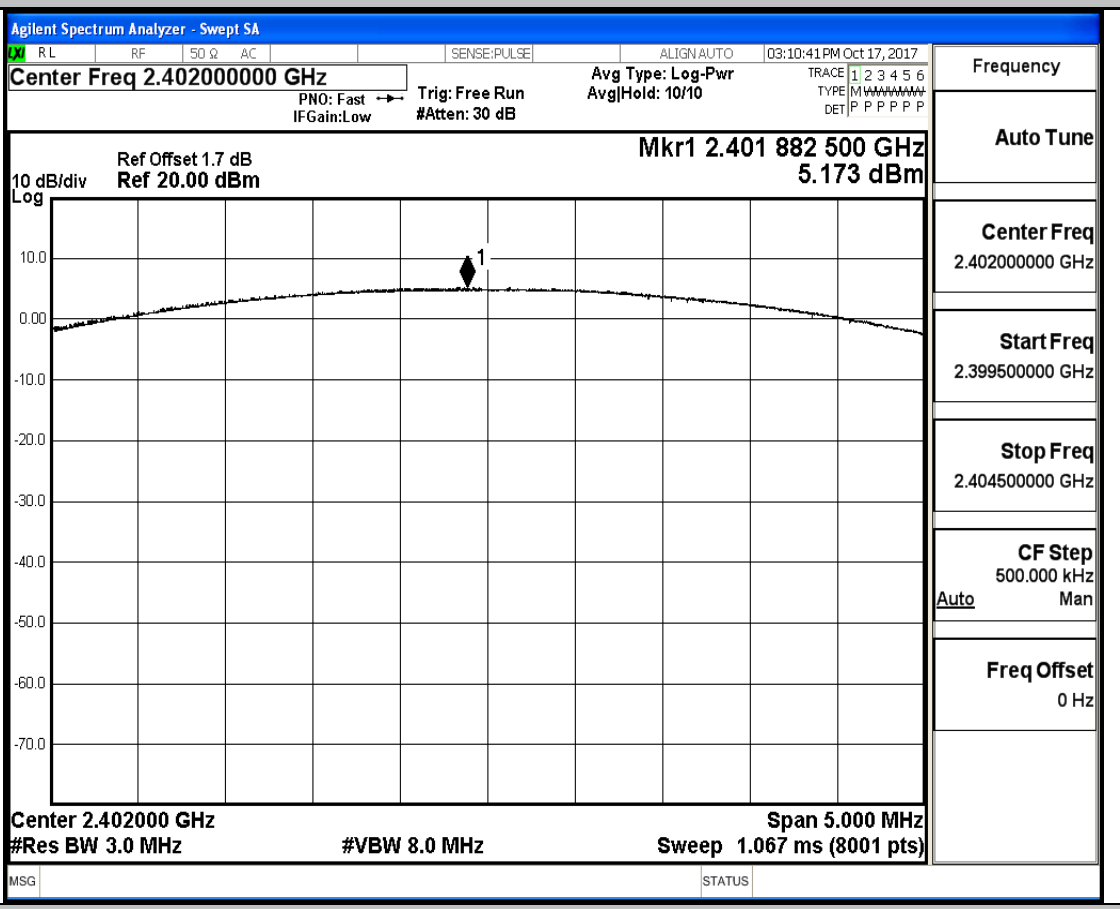
Conducted Peak Output Power_2DH1_2441



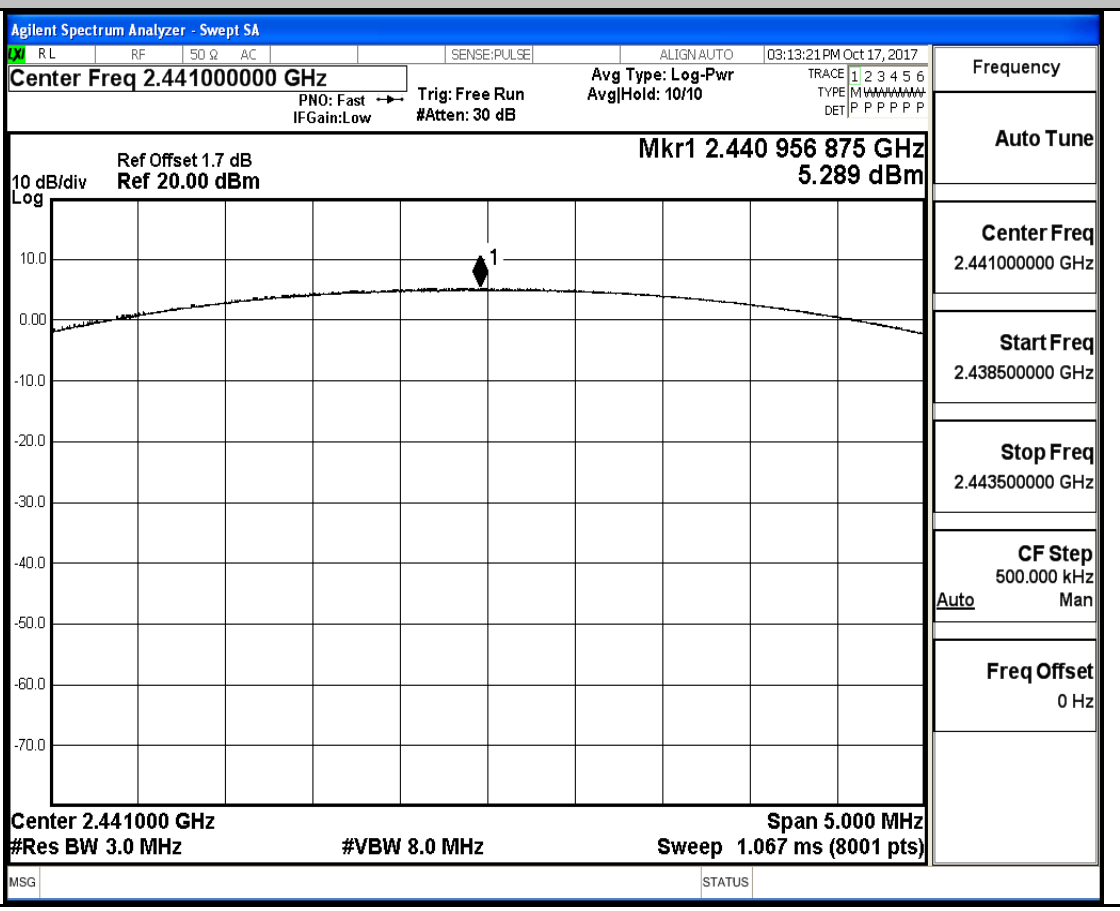
Conducted Peak Output Power_2DH1_2480



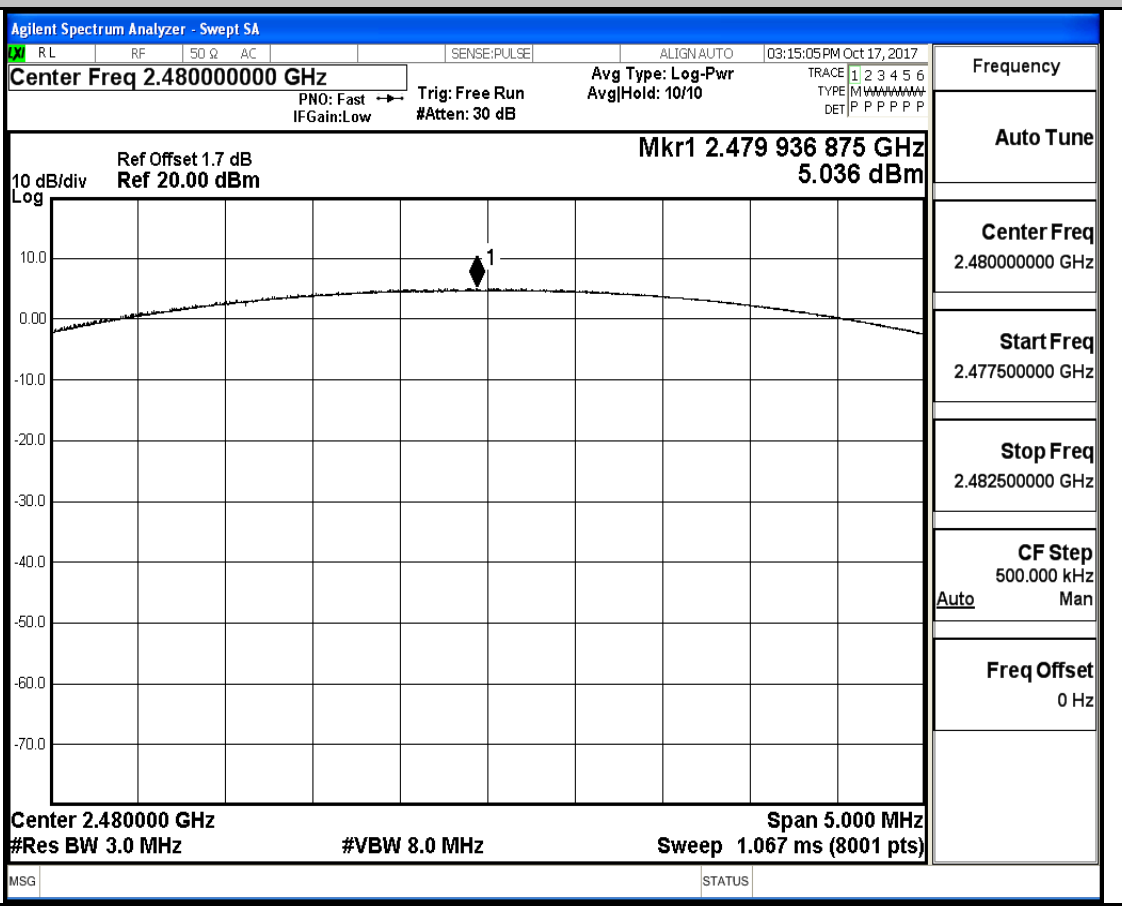
Conducted Peak Output Power_3DH1_2402



Conducted Peak Output Power_3DH1_2441



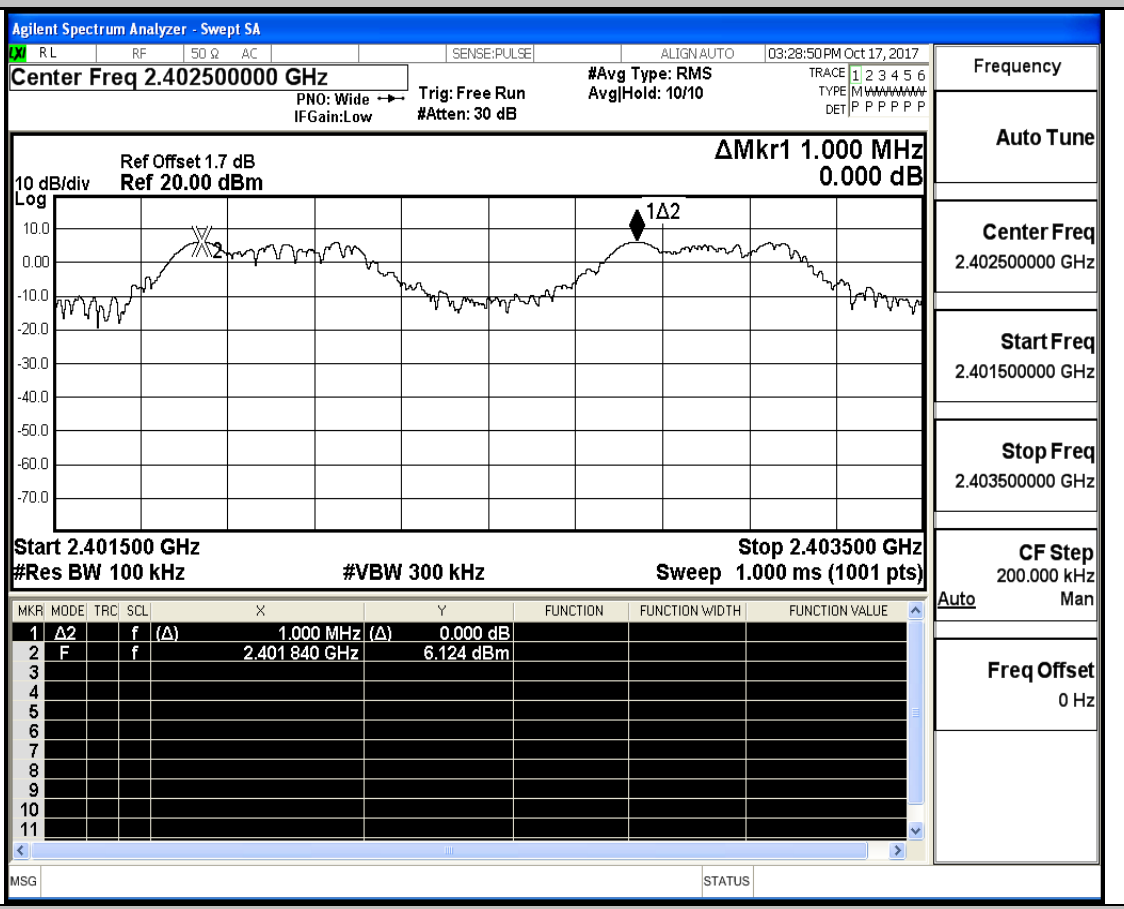
Conducted Peak Output Power_3DH1_2480



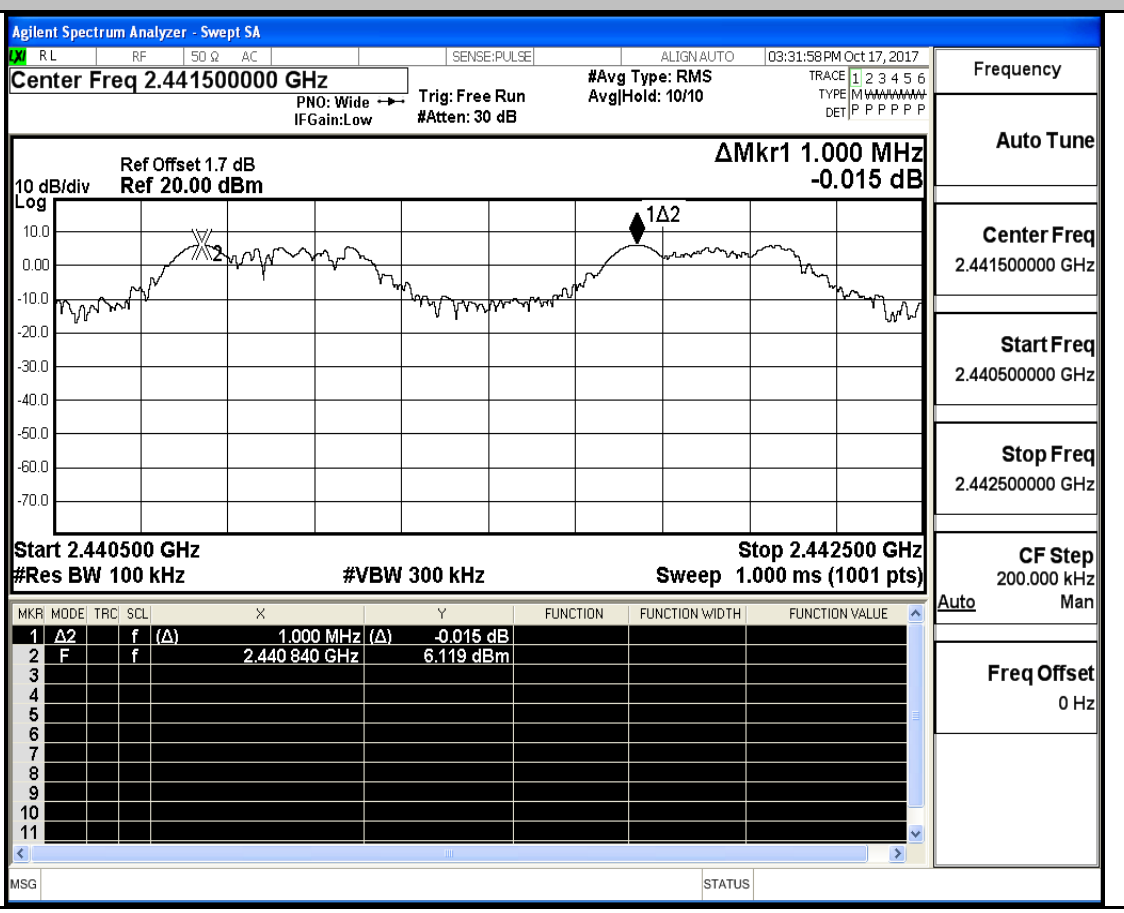
4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
GFSK	2402	1	0.7423	PASS
	2441	1	0.7252	PASS
	2480	1	0.8295	PASS
π/4DQPSK	2402	0.982	0.754	PASS
	2441	0.798	0.7467	PASS
	2480	1.008	0.748	PASS
8DPSK	2402	1.014	0.7567	PASS
	2441	0.998	0.7453	PASS
	2480	0.984	0.7460	PASS

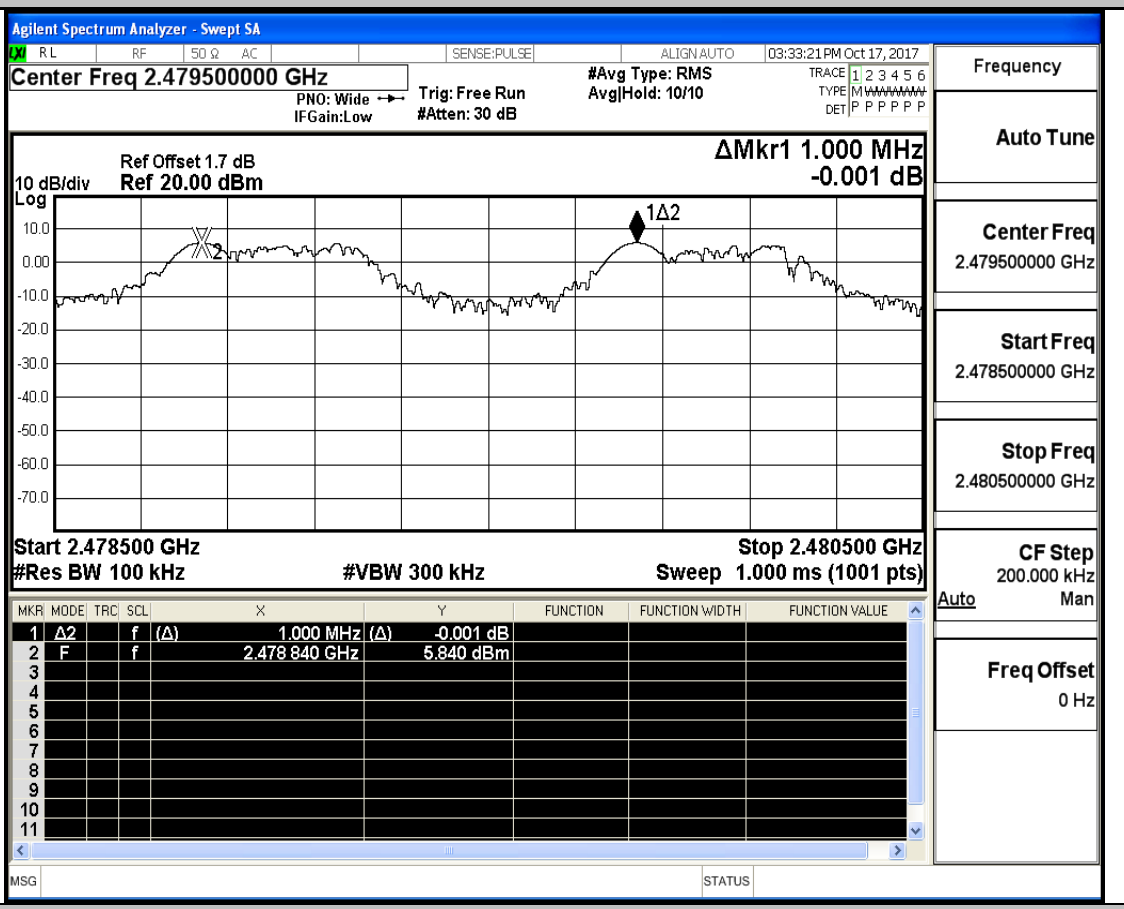
Carrier Frequency Separation_DH1_2402



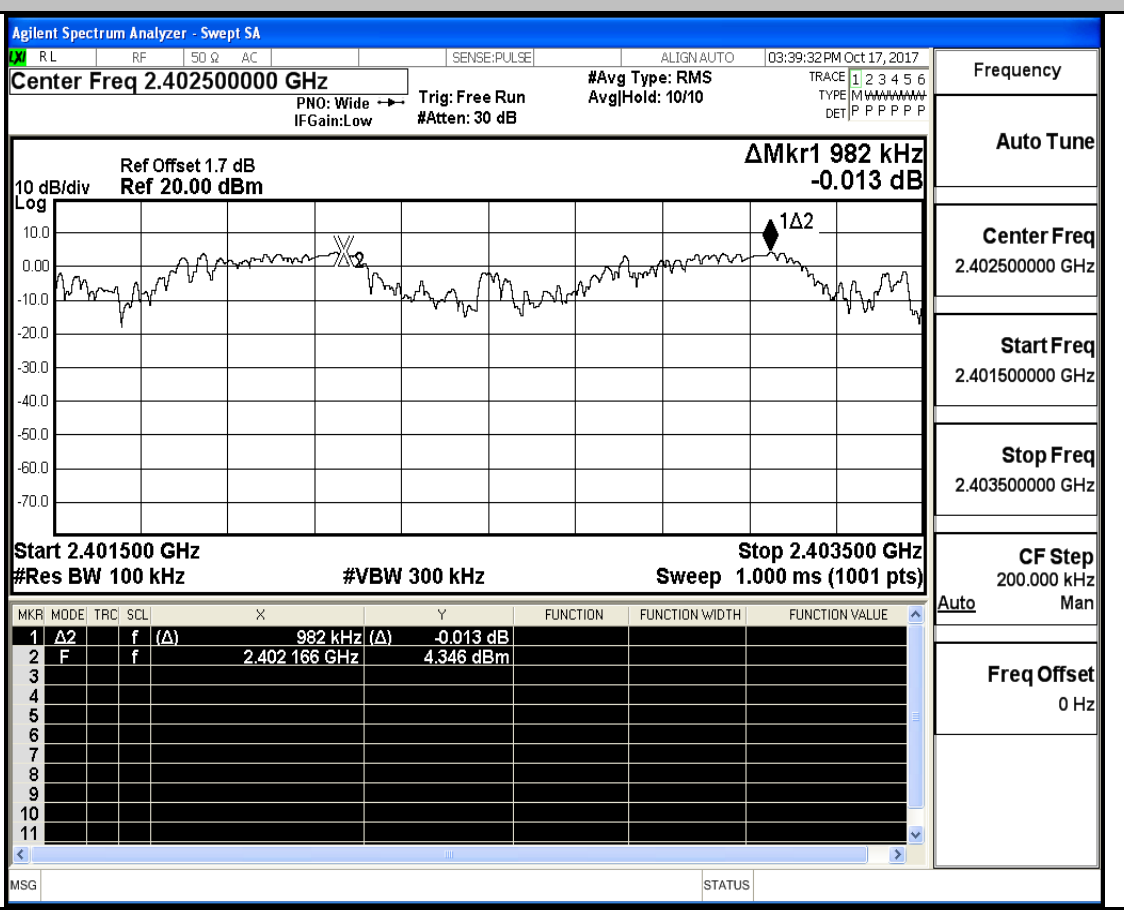
Carrier Frequency Separation_DH1_2441



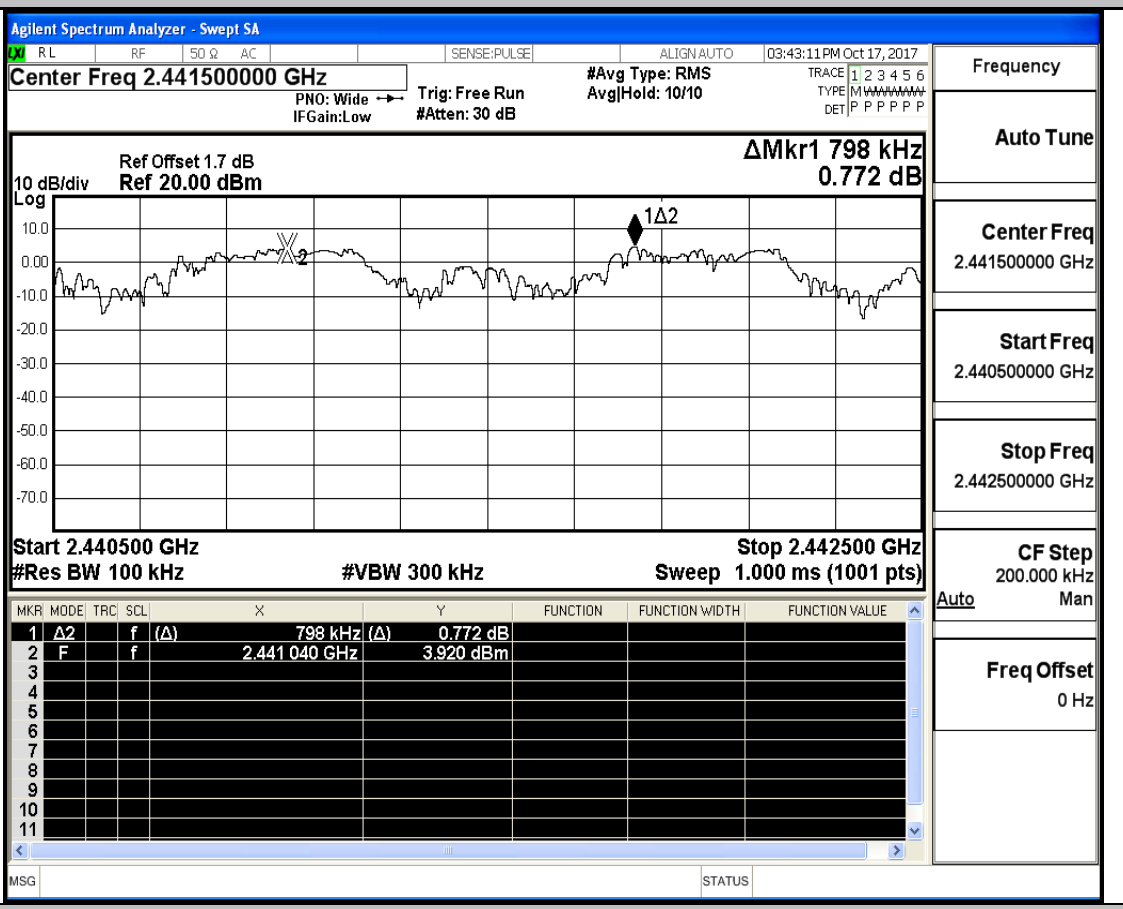
Carrier Frequency Separation_DH1_2480



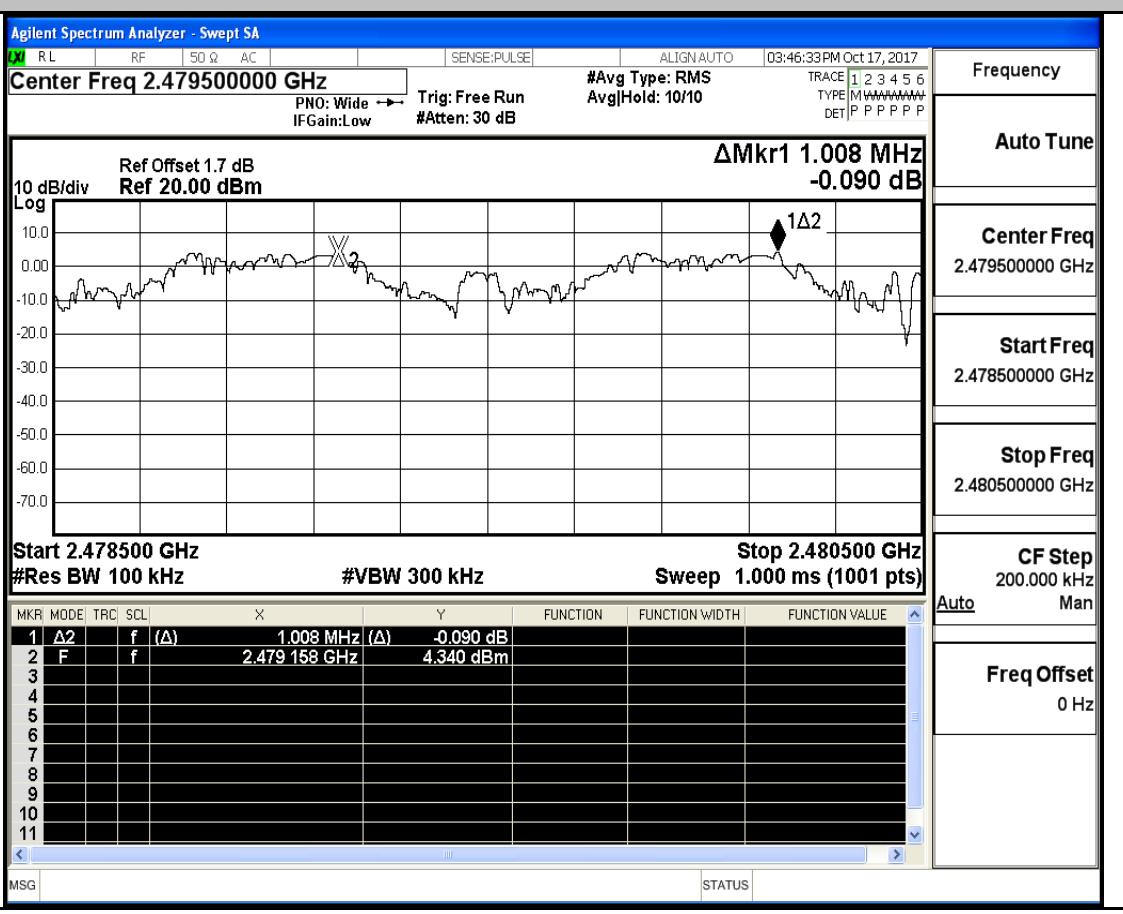
Carrier Frequency Separation_2DH1_2402



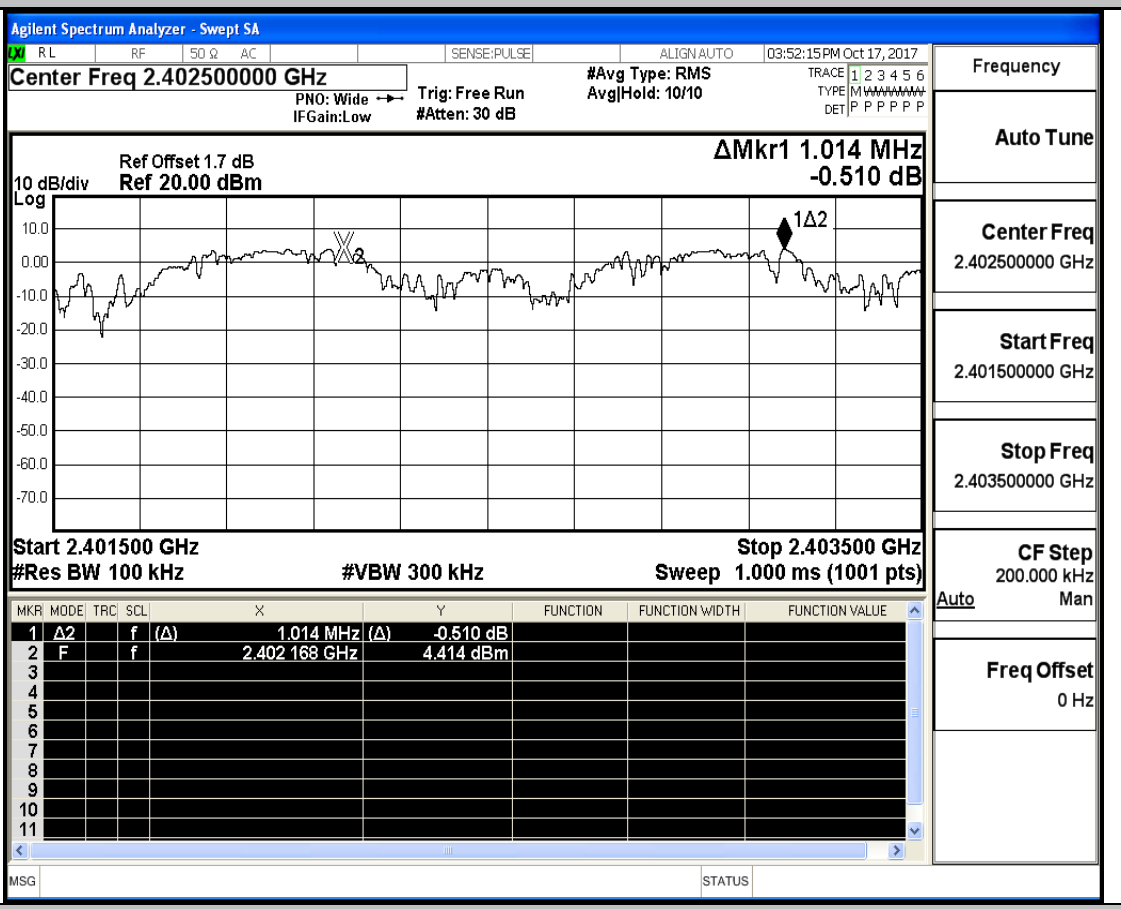
Carrier Frequency Separation_2DH1_2441



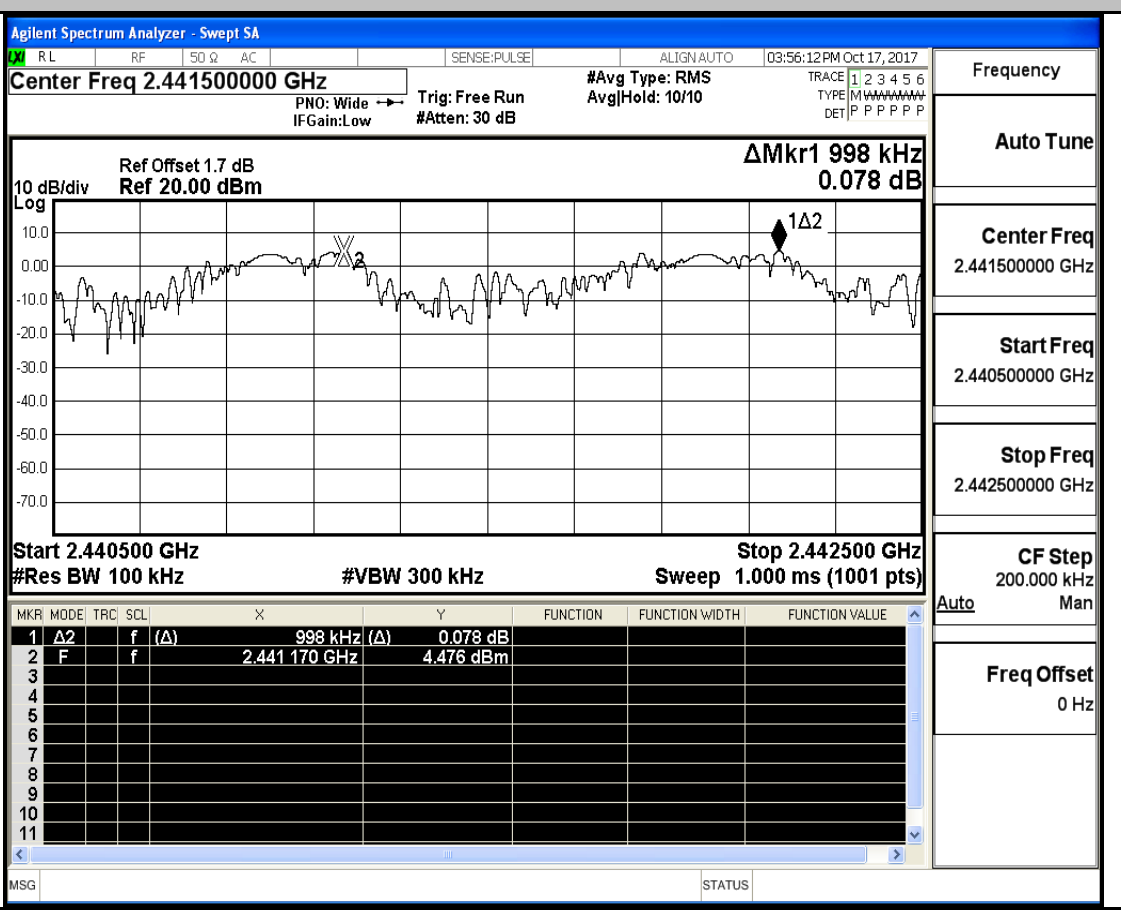
Carrier Frequency Separation_2DH1_2480



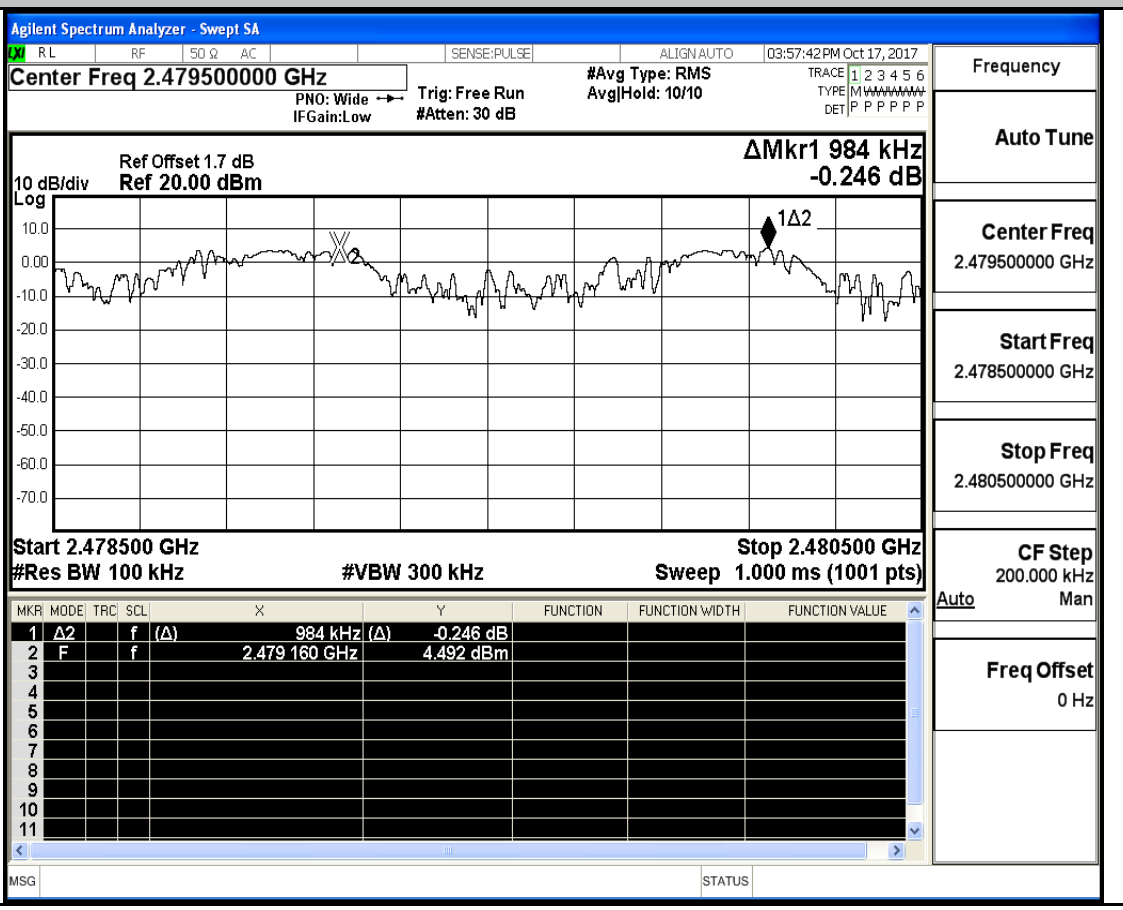
Carrier Frequency Separation_3DH1_2402



Carrier Frequency Separation_3DH1_2441



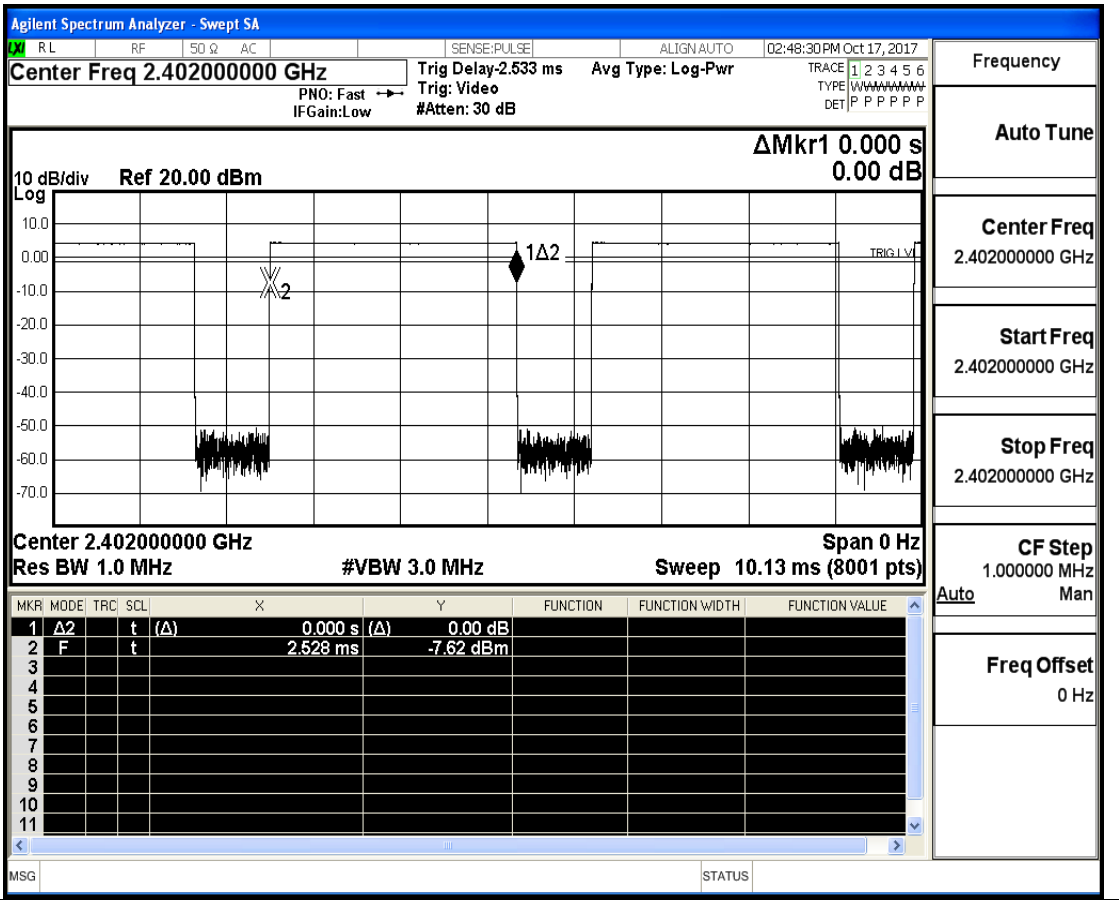
Carrier Frequency Separation_3DH1_2480



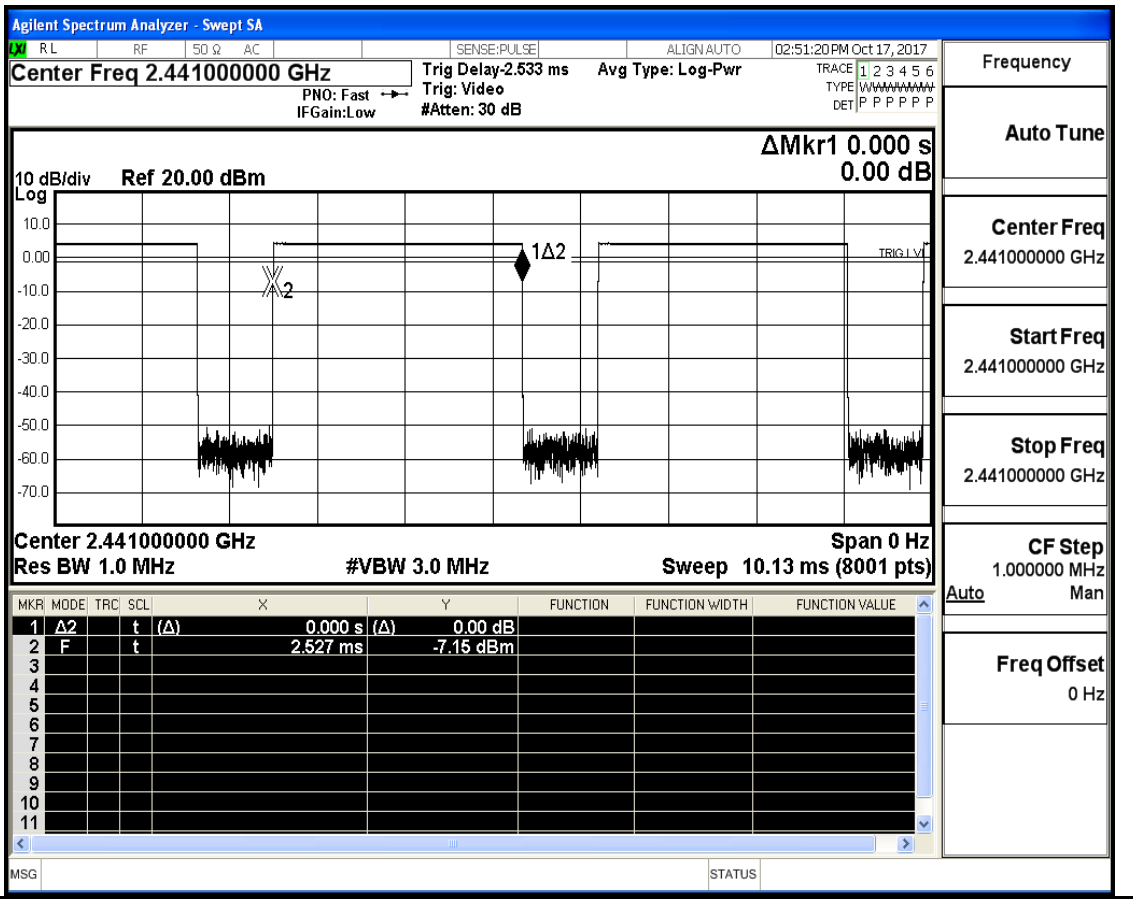
5.Dwell Time

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

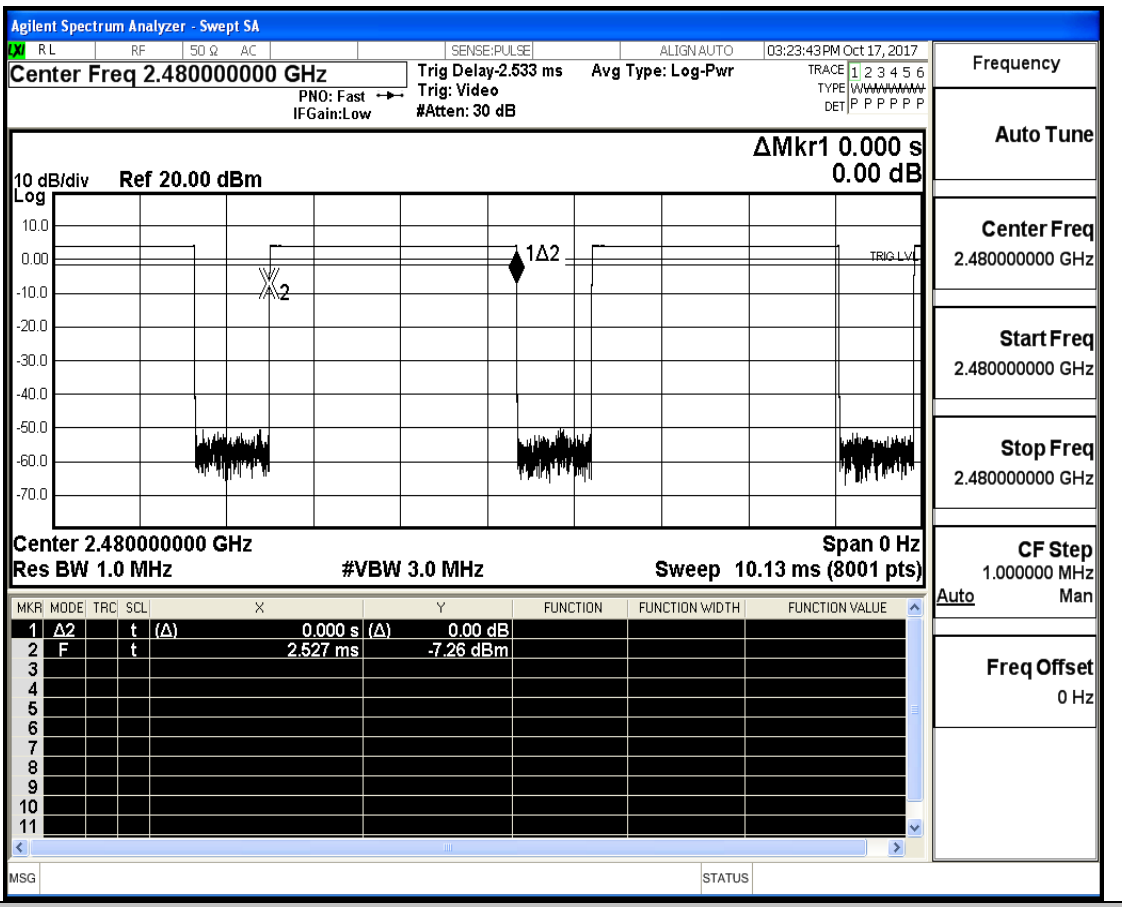
Dwell Time_DH5_2402



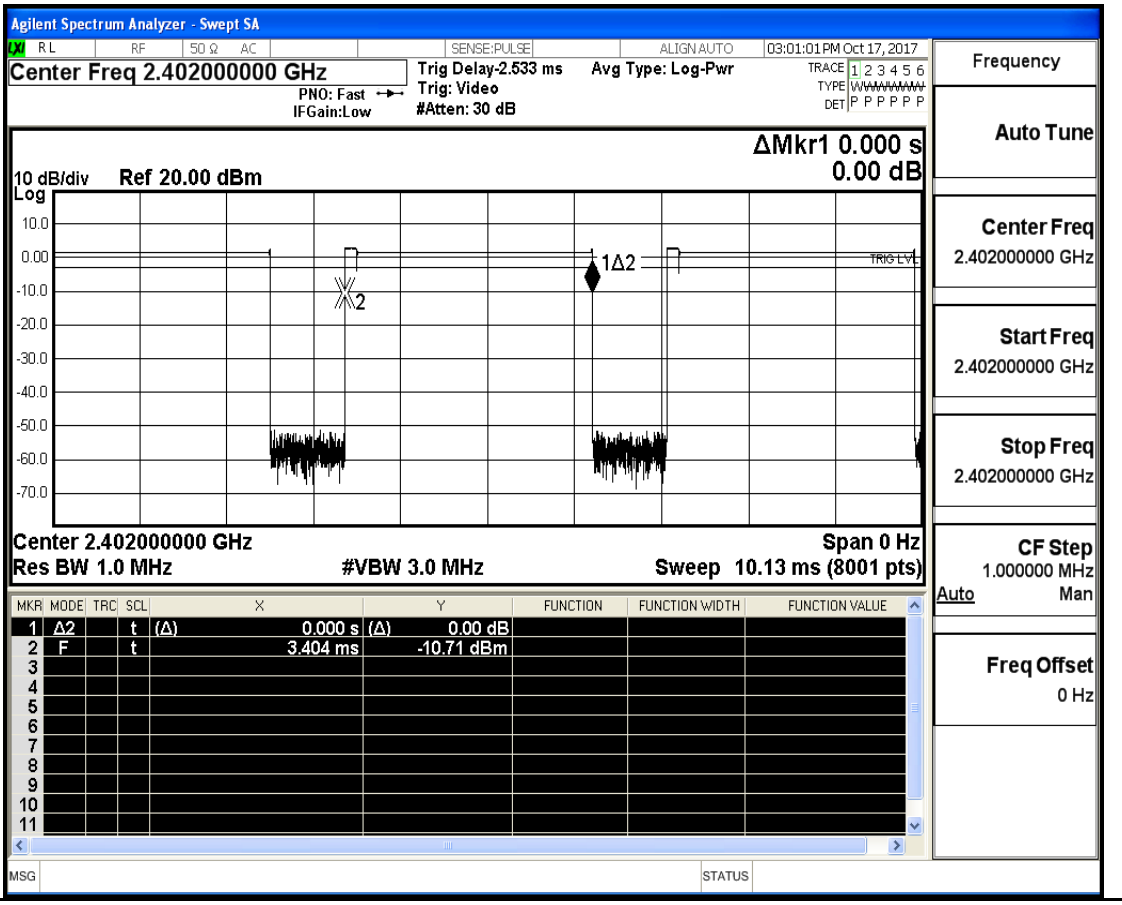
Dwell Time_DH5_2441



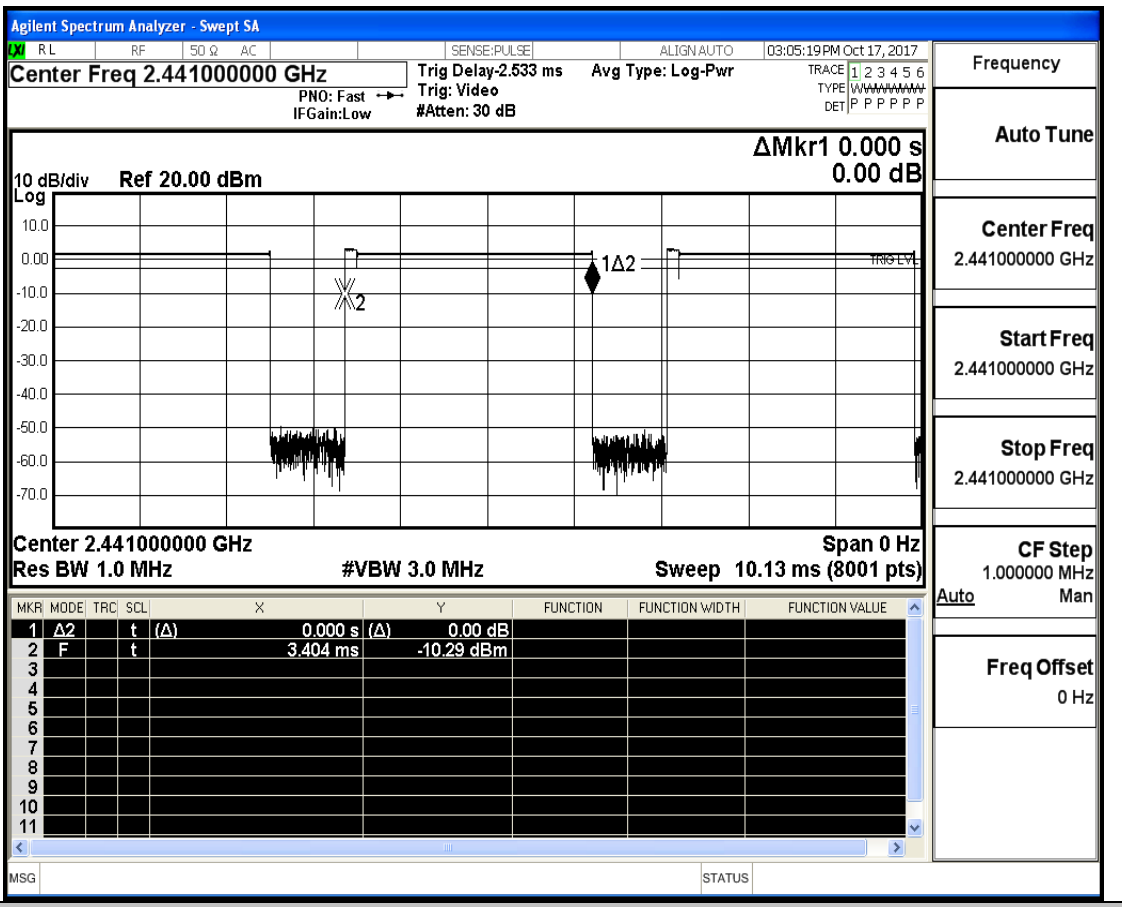
Dwell Time_DH5_2480



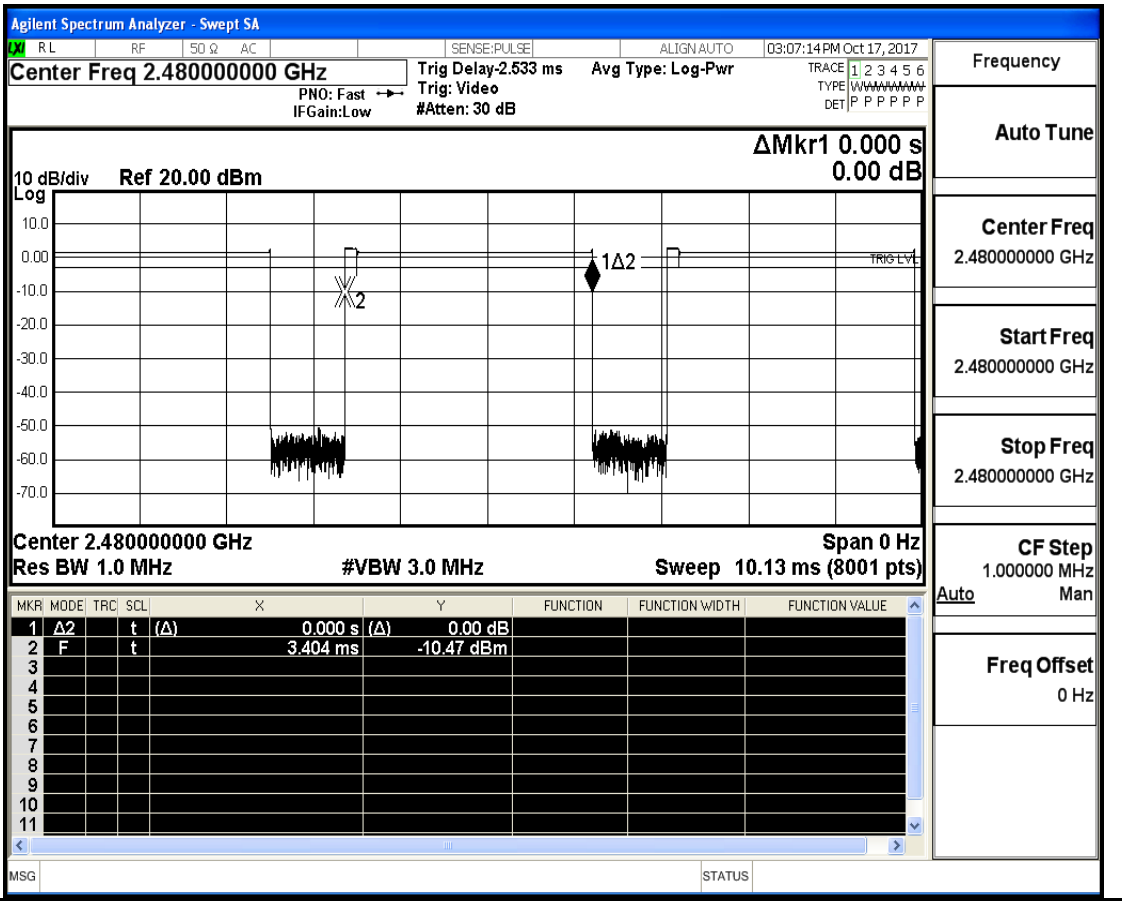
Dwell Time_2DH5_2402



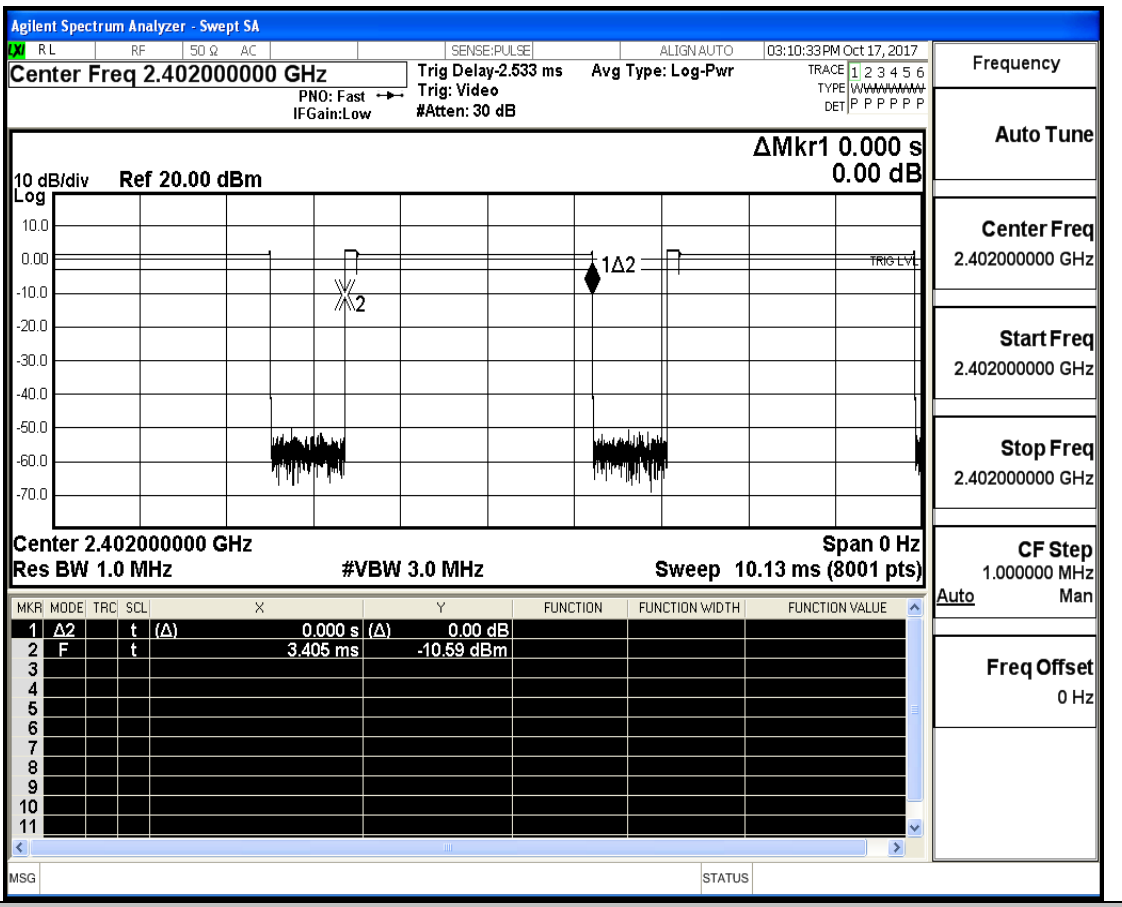
Dwell Time_2DH5_2441



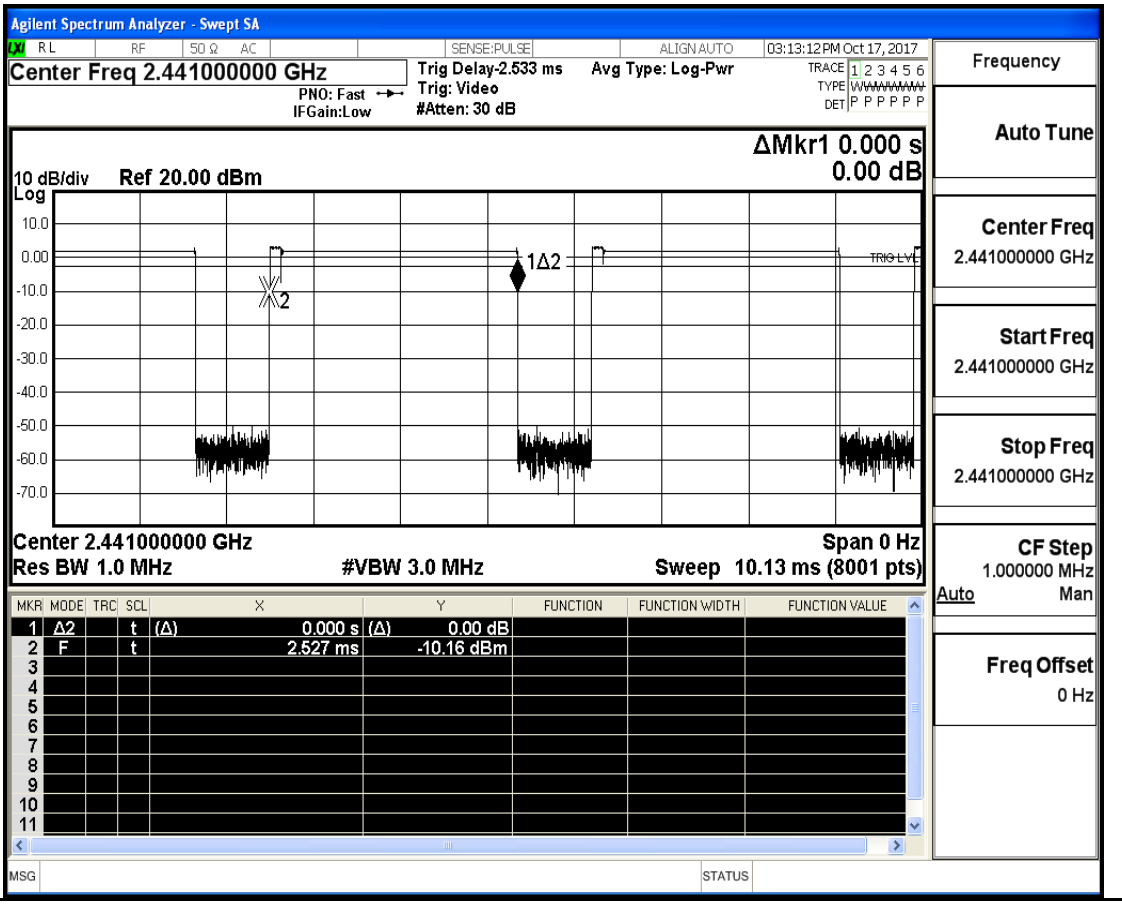
Dwell Time_2DH5_2480



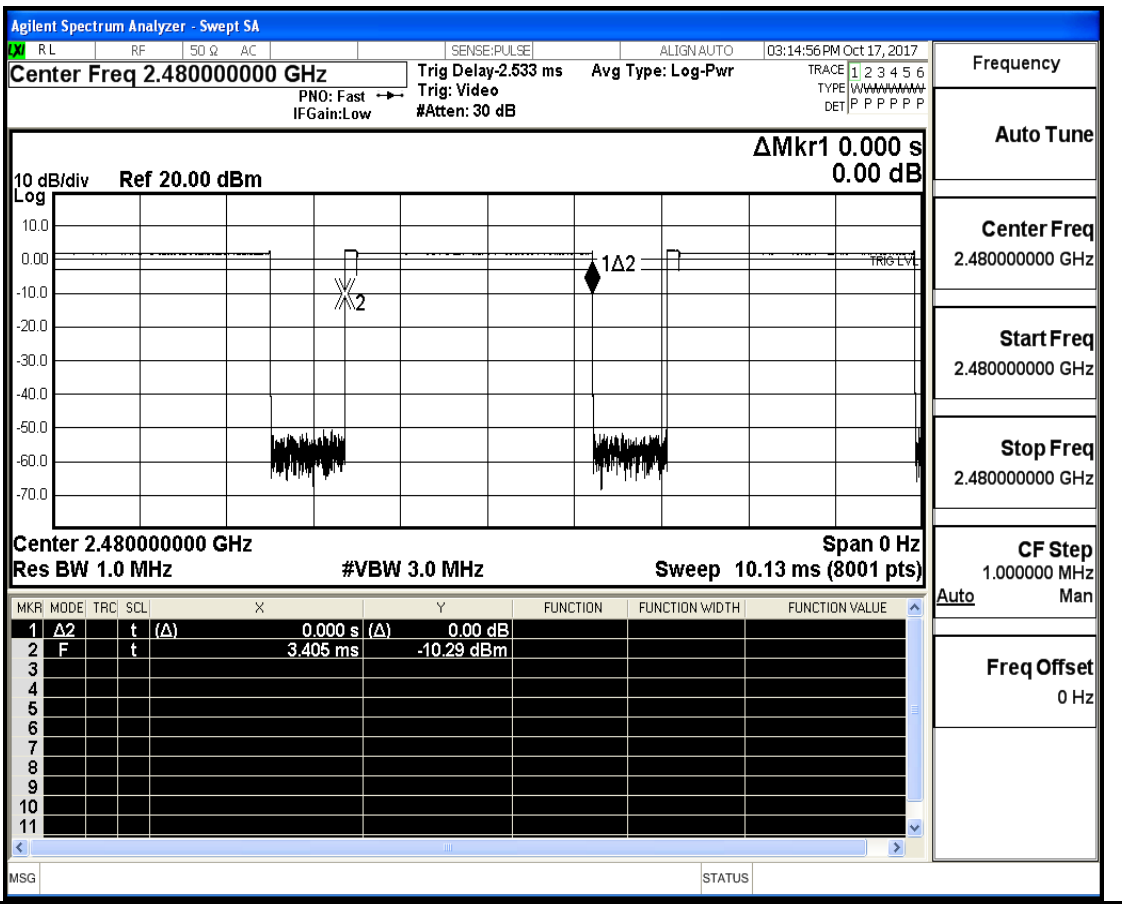
Dwell Time_3DH5_2402



Dwell Time_3DH5_2441



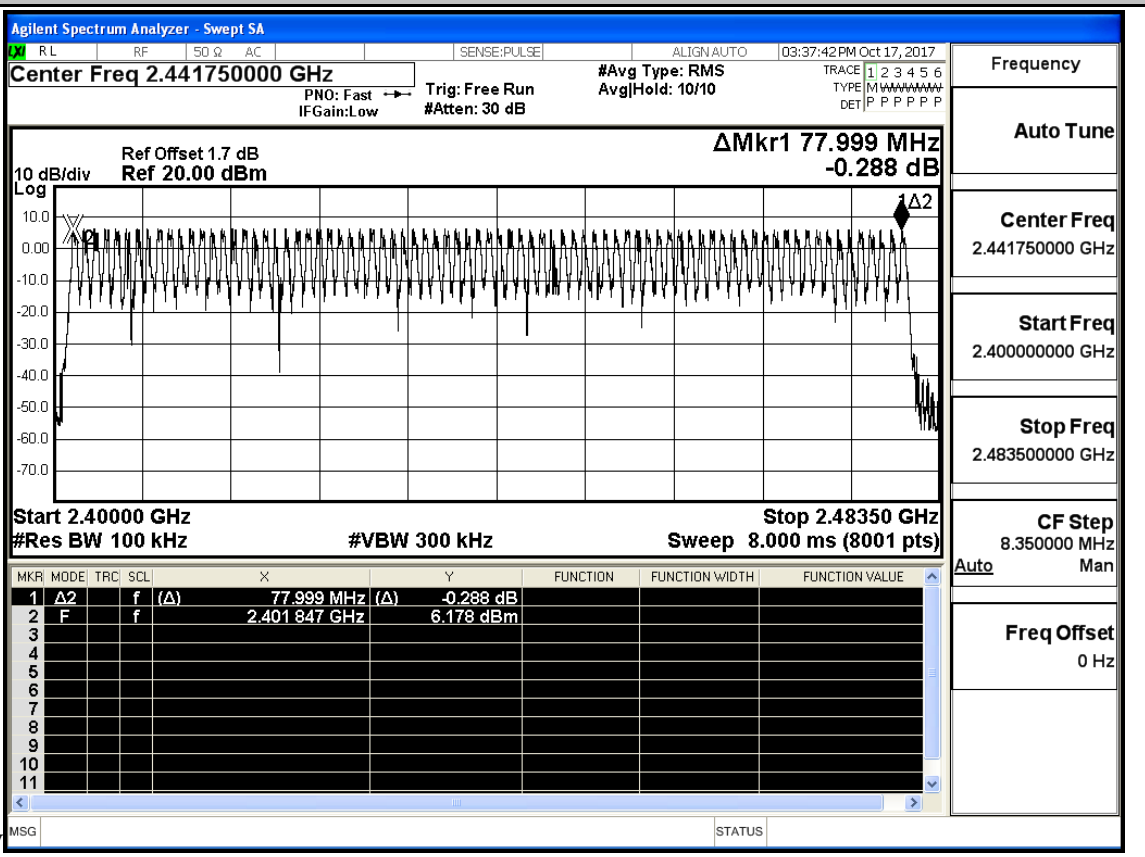
Dwell Time_3DH5_2480



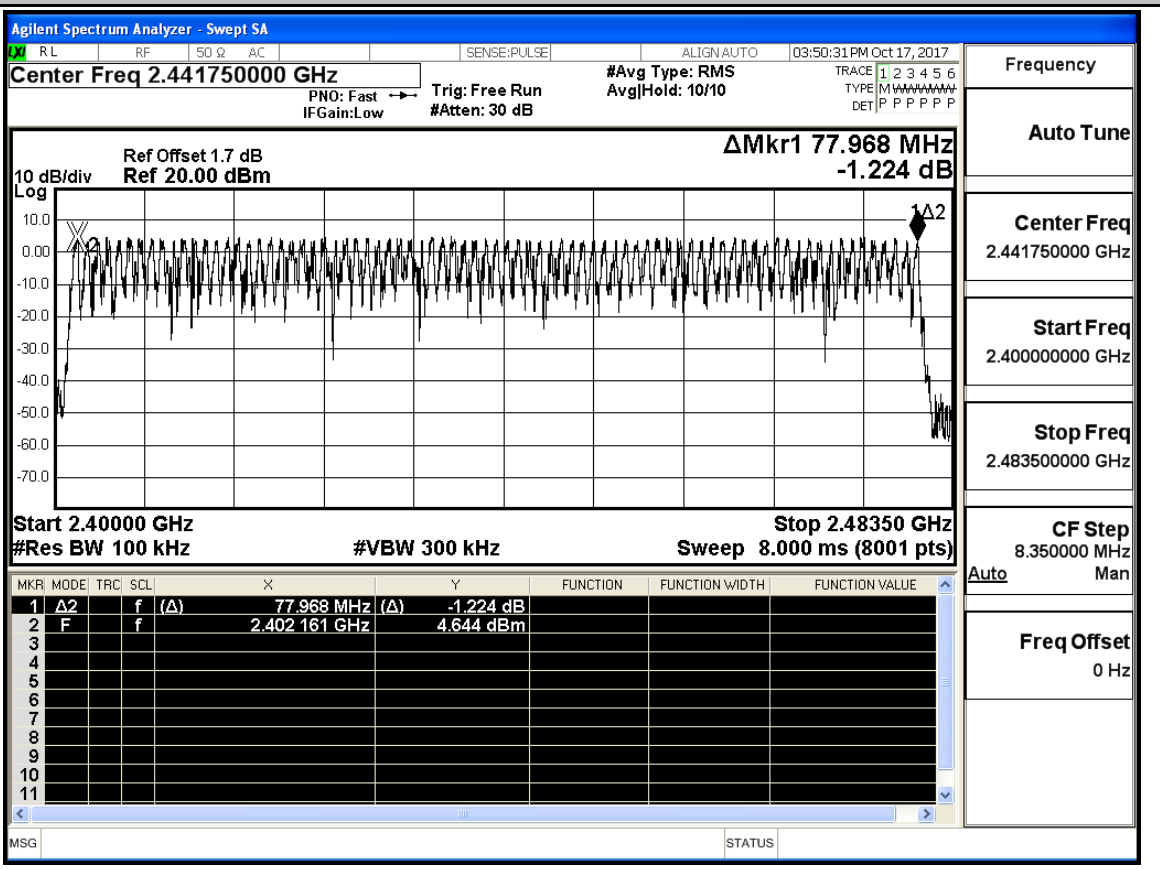
6.Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict
DH1	2402	79	>=15	PASS
2DH1	2402	79	>=15	PASS
3DH1	2402	79	>=15	PASS

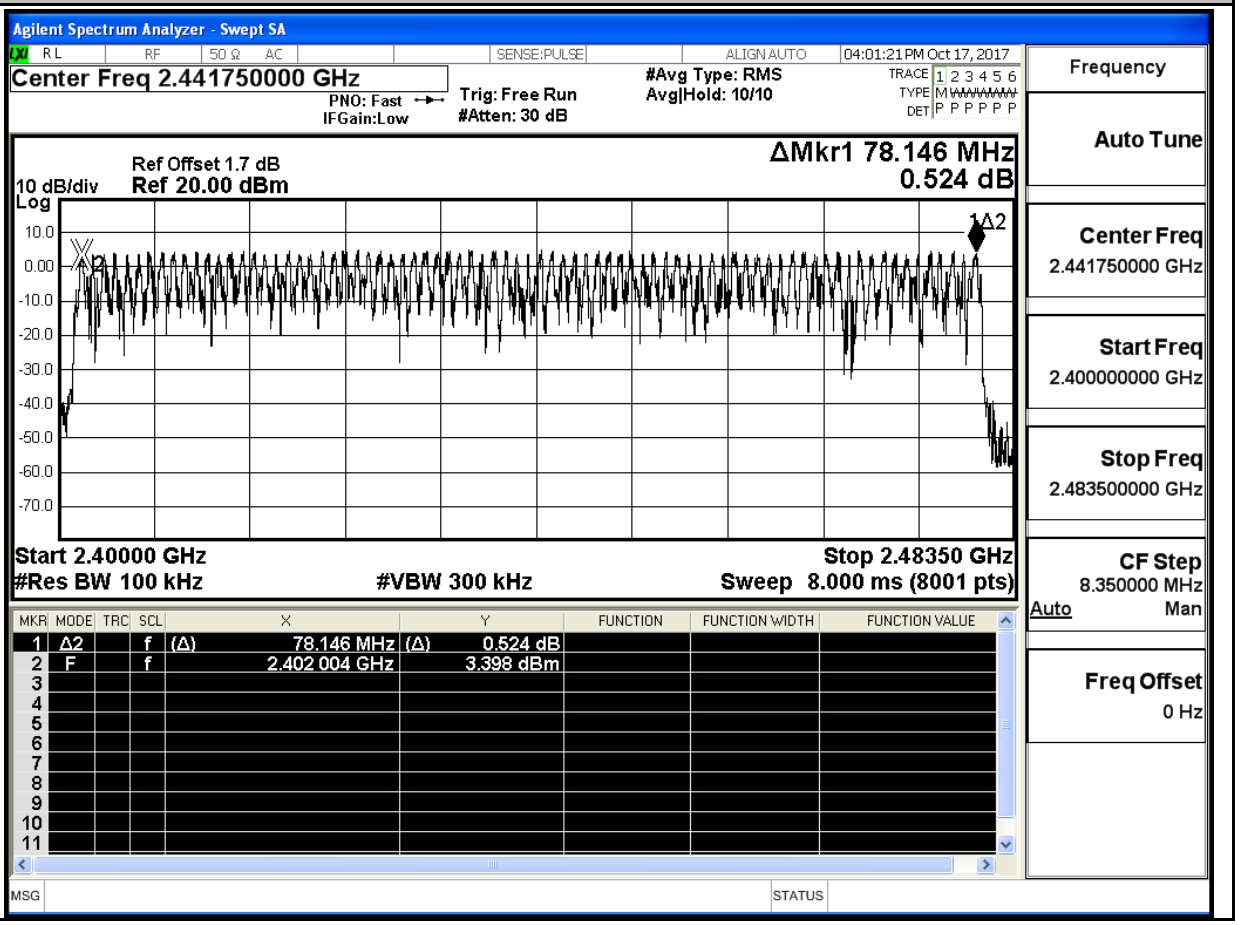
Hopping Channel Number_DH1_2402



Hopping Channel Number_2DH1_2402



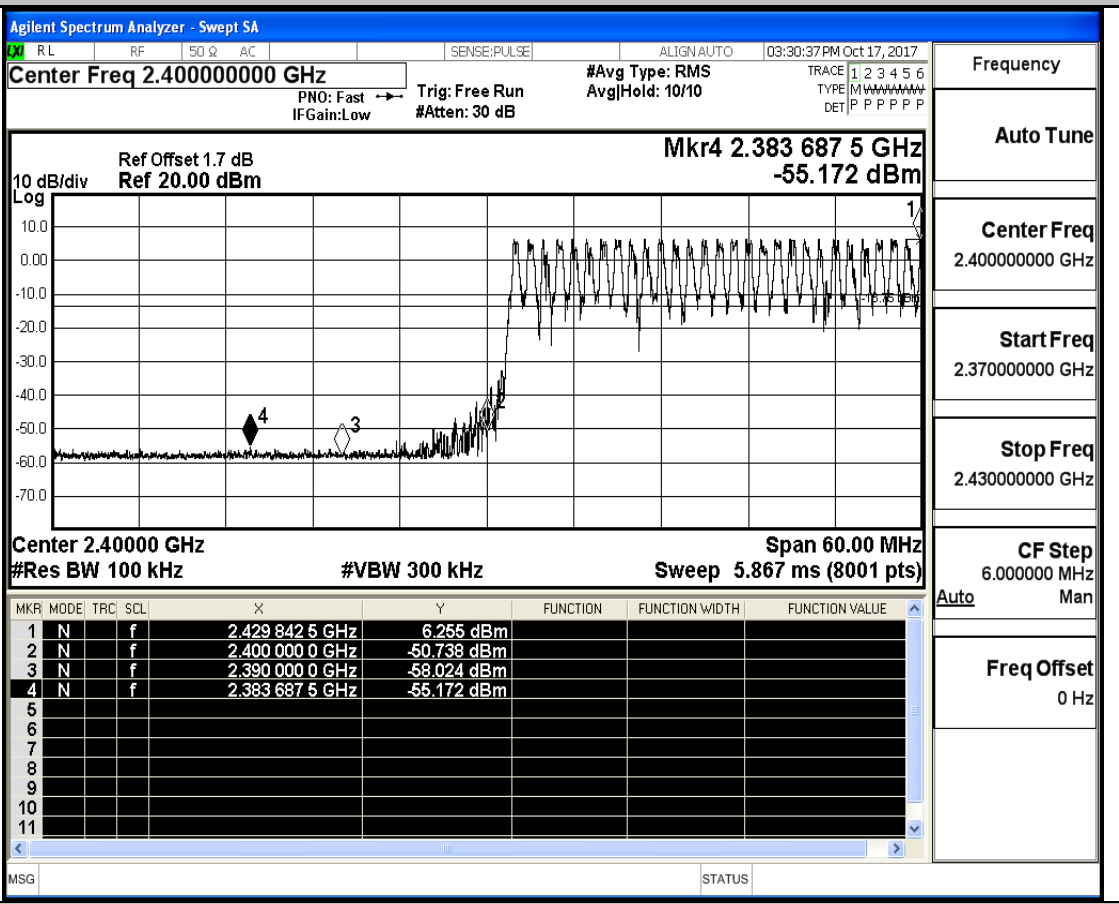
Hopping Channel Number_3DH1_2402



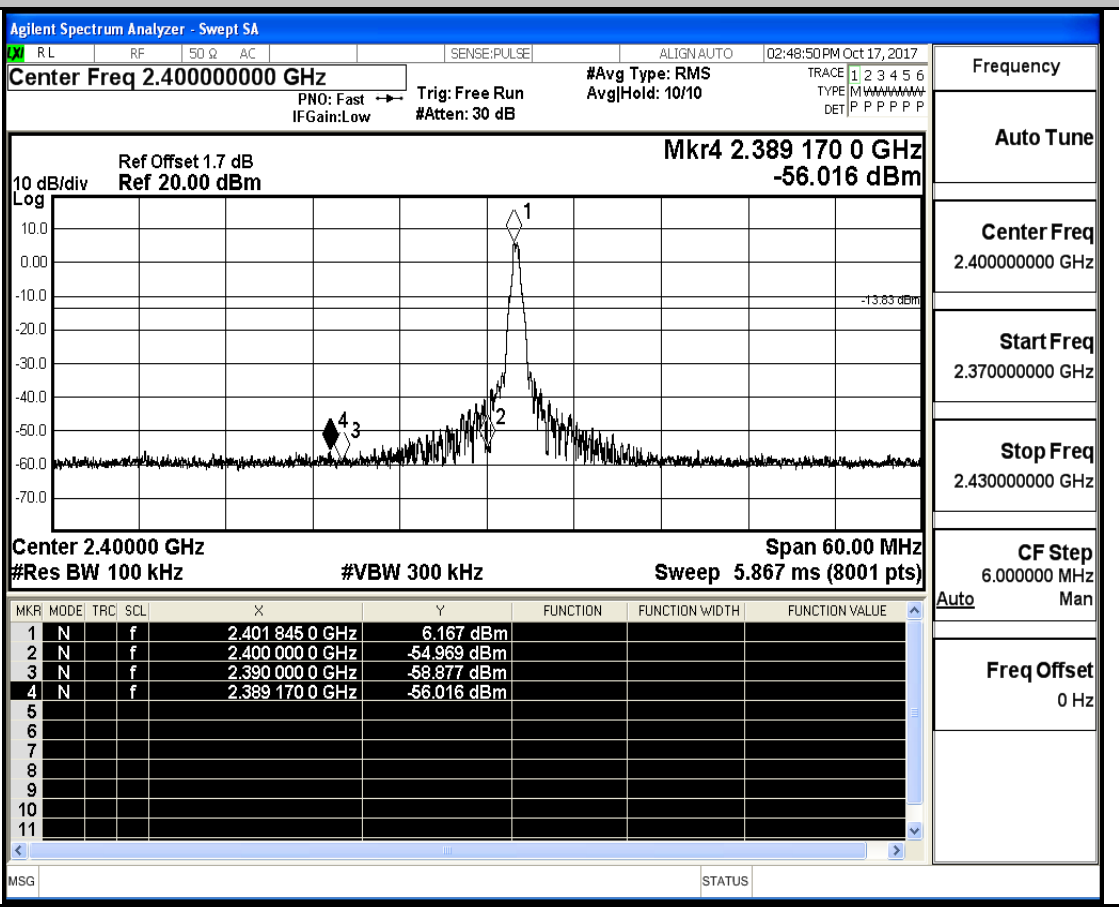
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH1	2402	On	6.255	-55.172	-13.75	PASS
DH1	2402	Off	6.167	-56.016	-13.83	PASS
DH1	2480	On	5.972	-46.239	-14.03	PASS
DH1	2480	Off	5.877	-44.281	-14.12	PASS
2DH1	2402	On	4.867	-54.433	-15.13	PASS
2DH1	2402	Off	4.657	-56.413	-15.34	PASS
2DH1	2480	On	4.616	-47.910	-15.38	PASS
2DH1	2480	Off	4.542	-46.998	-15.46	PASS
3DH1	2402	On	4.670	-55.836	-15.33	PASS
3DH1	2402	Off	4.329	-56.769	-15.67	PASS
3DH1	2480	On	4.588	-49.811	-15.41	PASS
3DH1	2480	Off	4.440	-47.713	-15.56	PASS

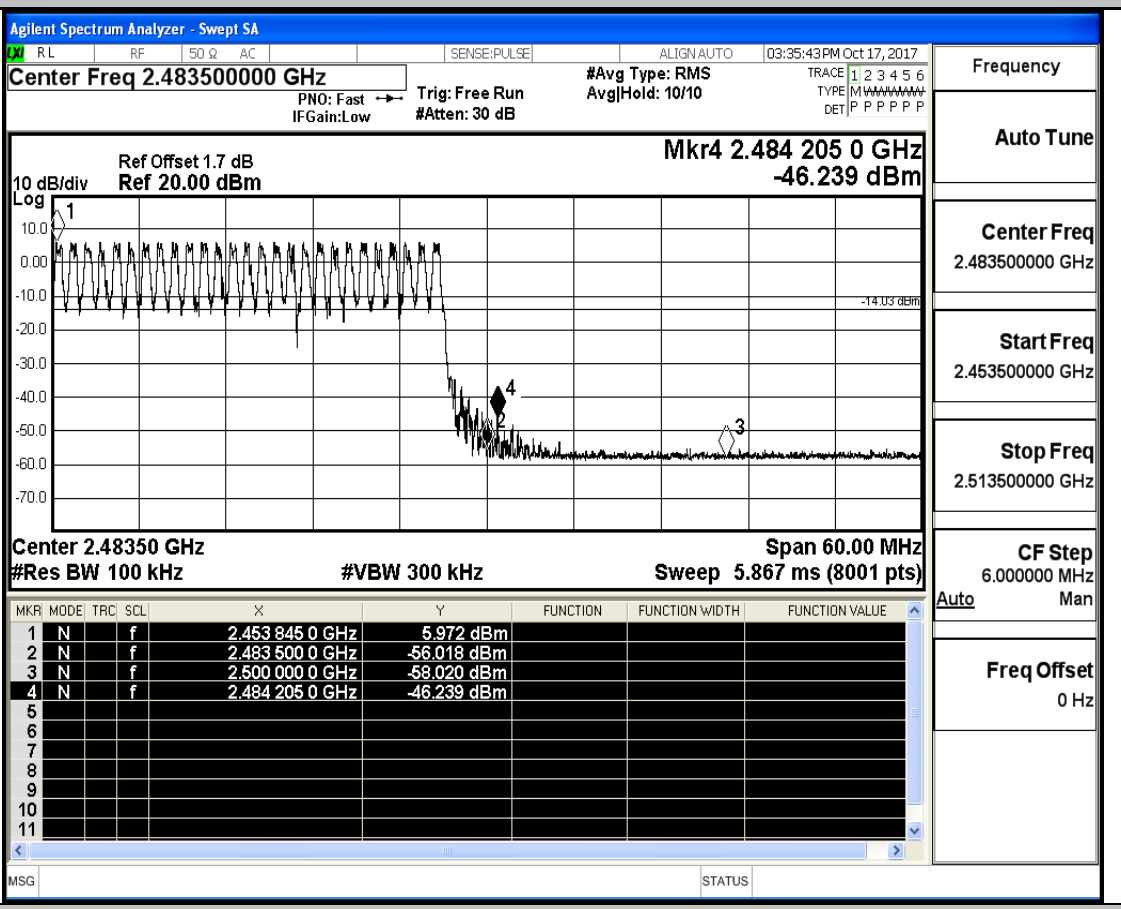
Band-edge for RF Conducted Emissions_DH1_2402_Hopping On



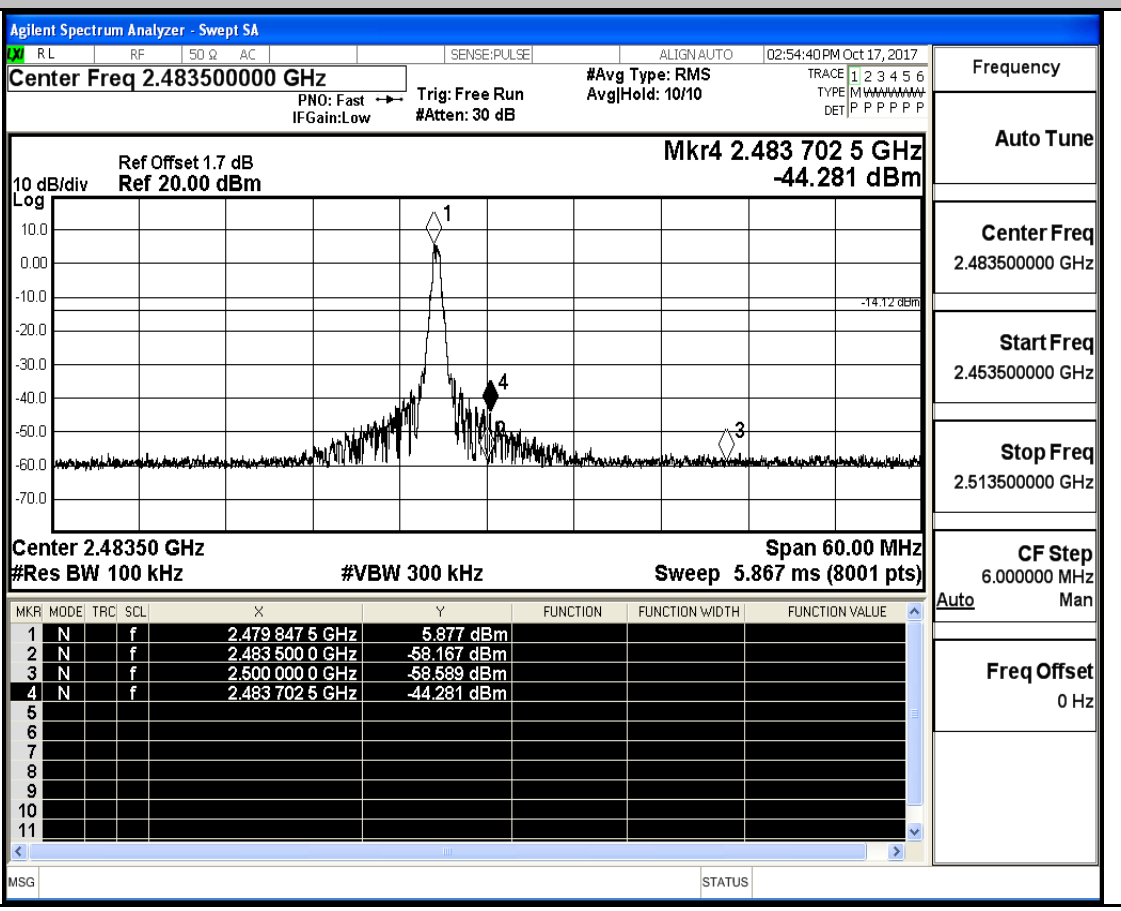
Band-edge for RF Conducted Emissions_DH1_2402_Hopping Off



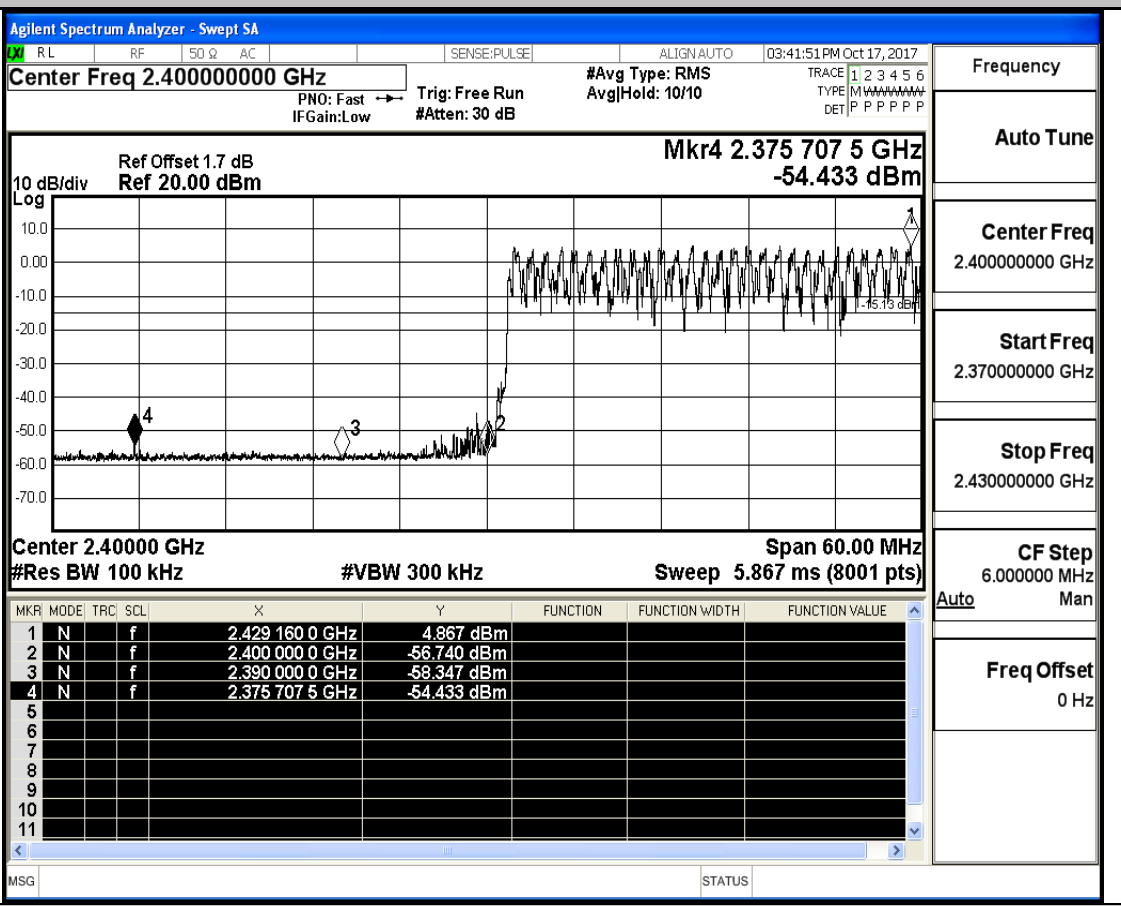
Band-edge for RF Conducted Emissions_DH1_2480_Hopping On



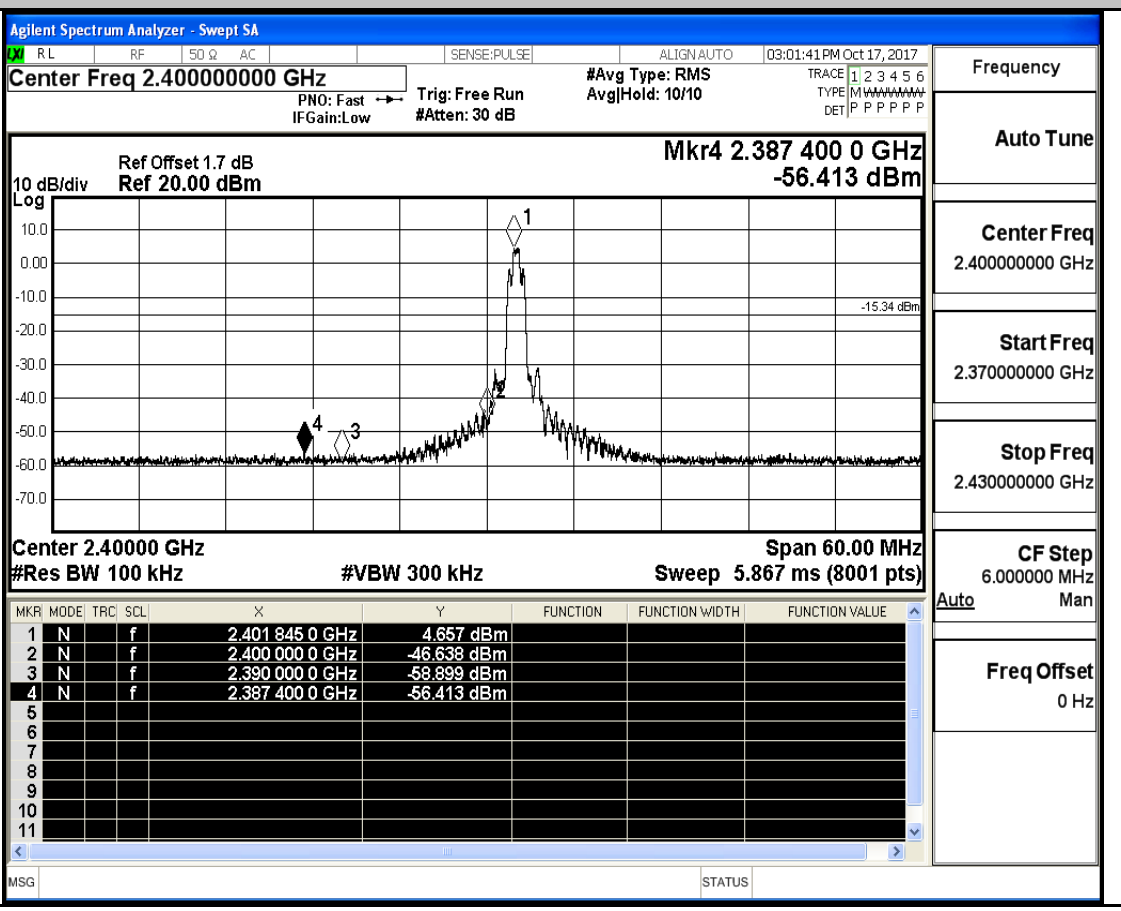
Band-edge for RF Conducted Emissions_DH1_2480_Hopping Off



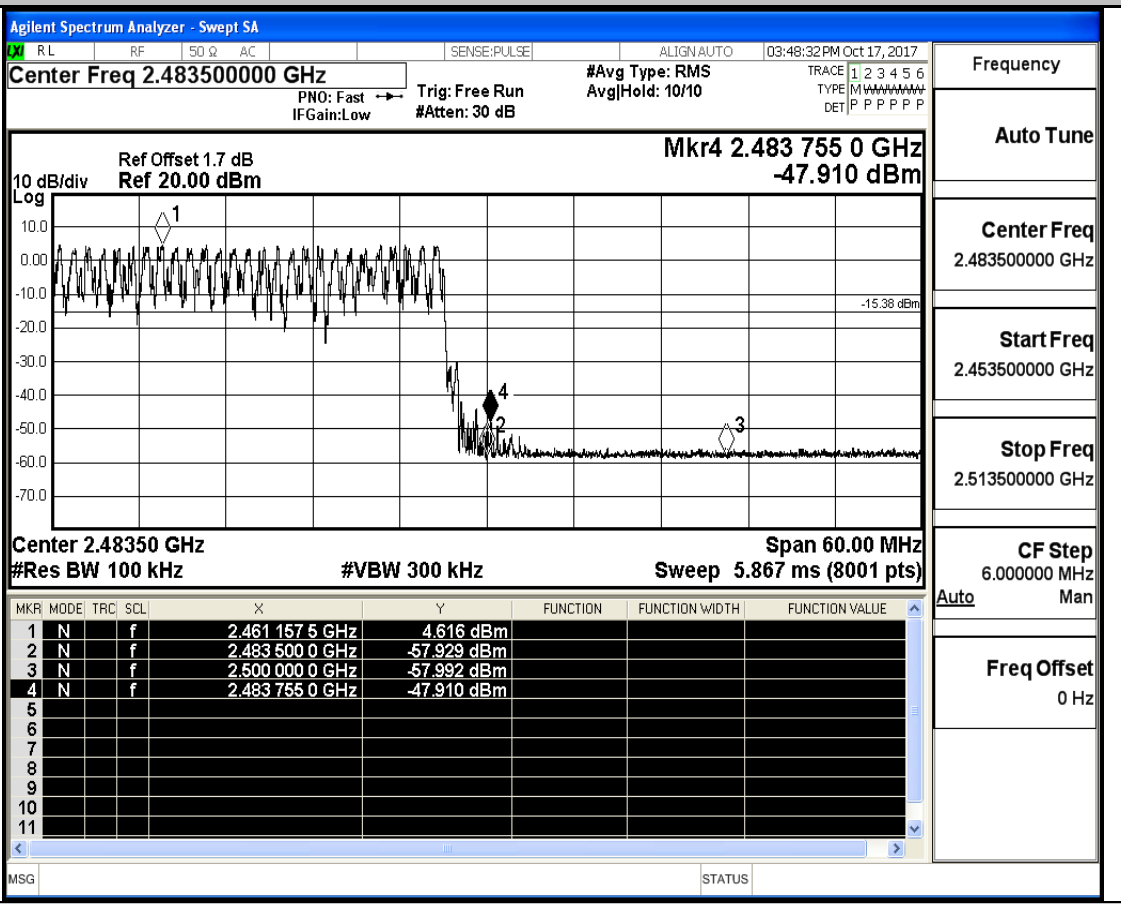
Band-edge for RF Conducted Emissions_2DH1_2402_Hopping On



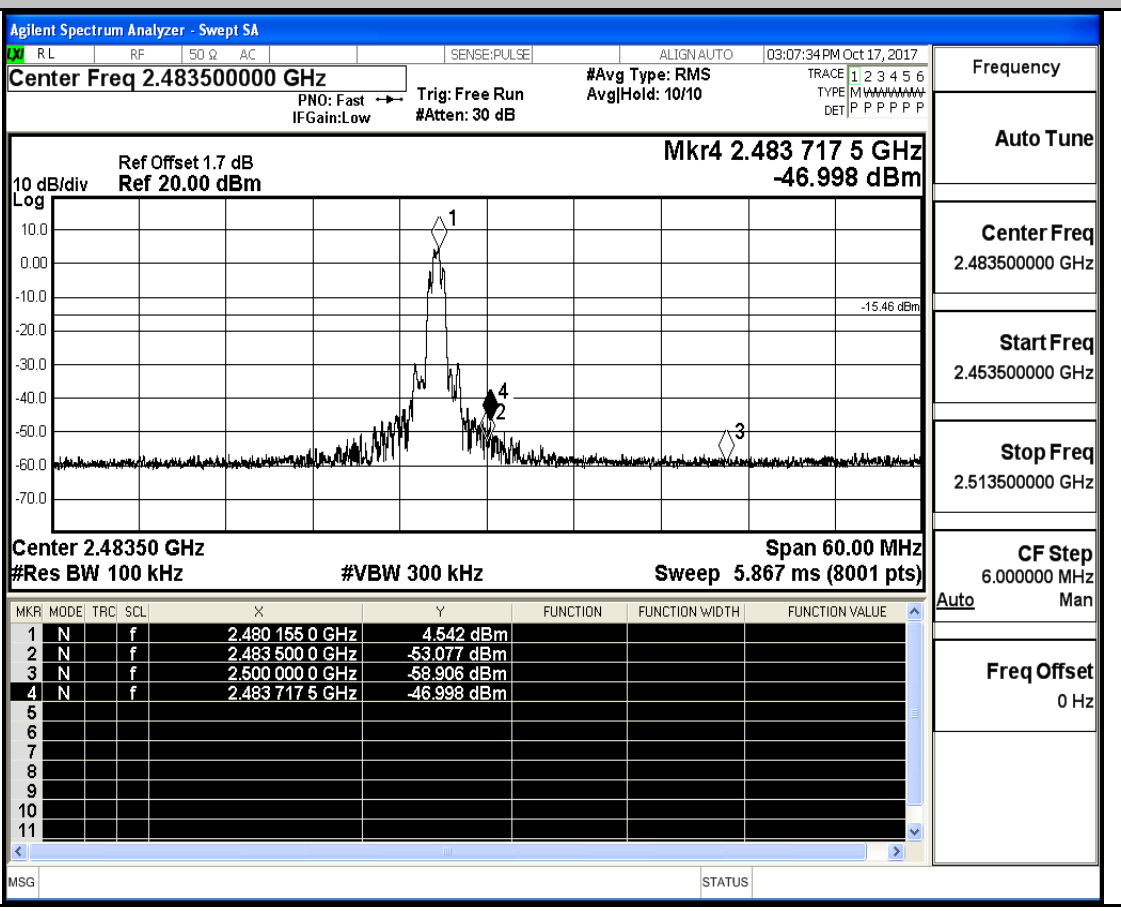
Band-edge for RF Conducted Emissions_2DH1_2402_Hopping Off



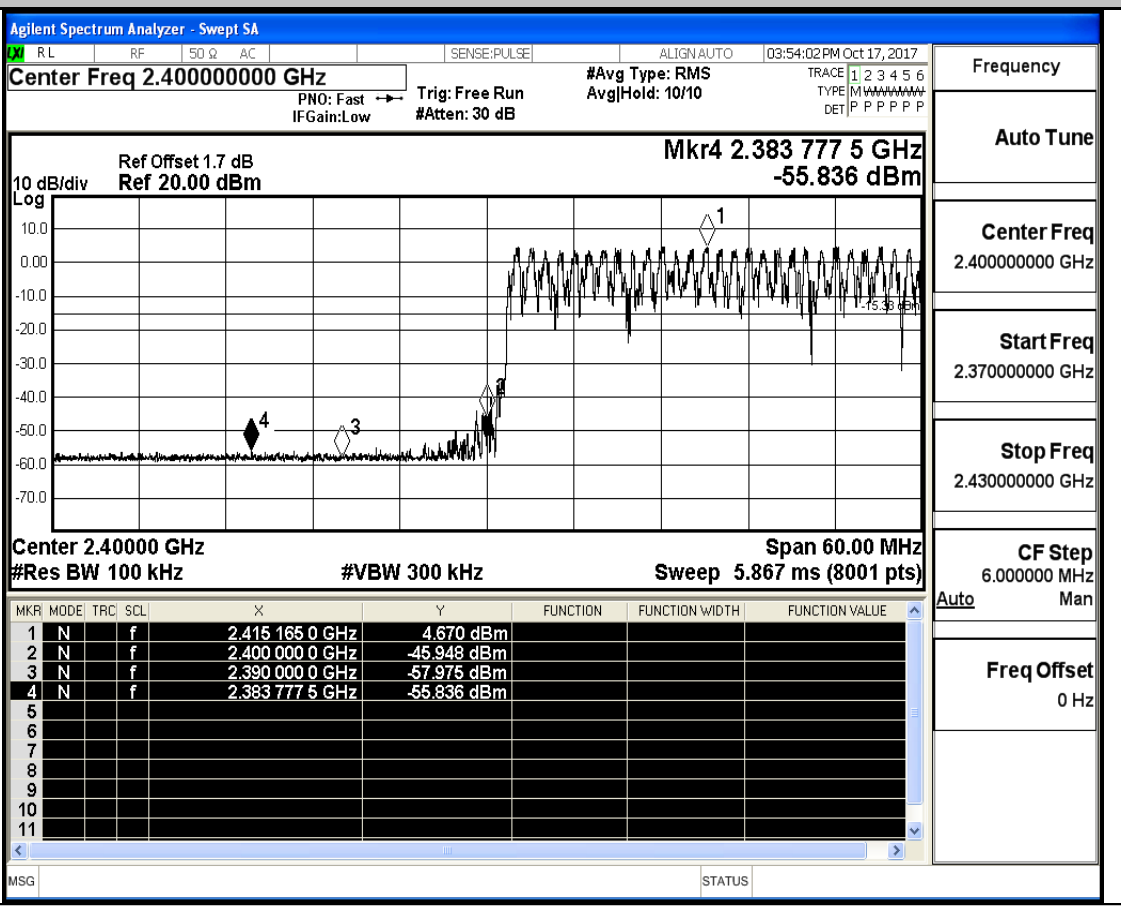
Band-edge for RF Conducted Emissions_2DH1_2480_Hopping On



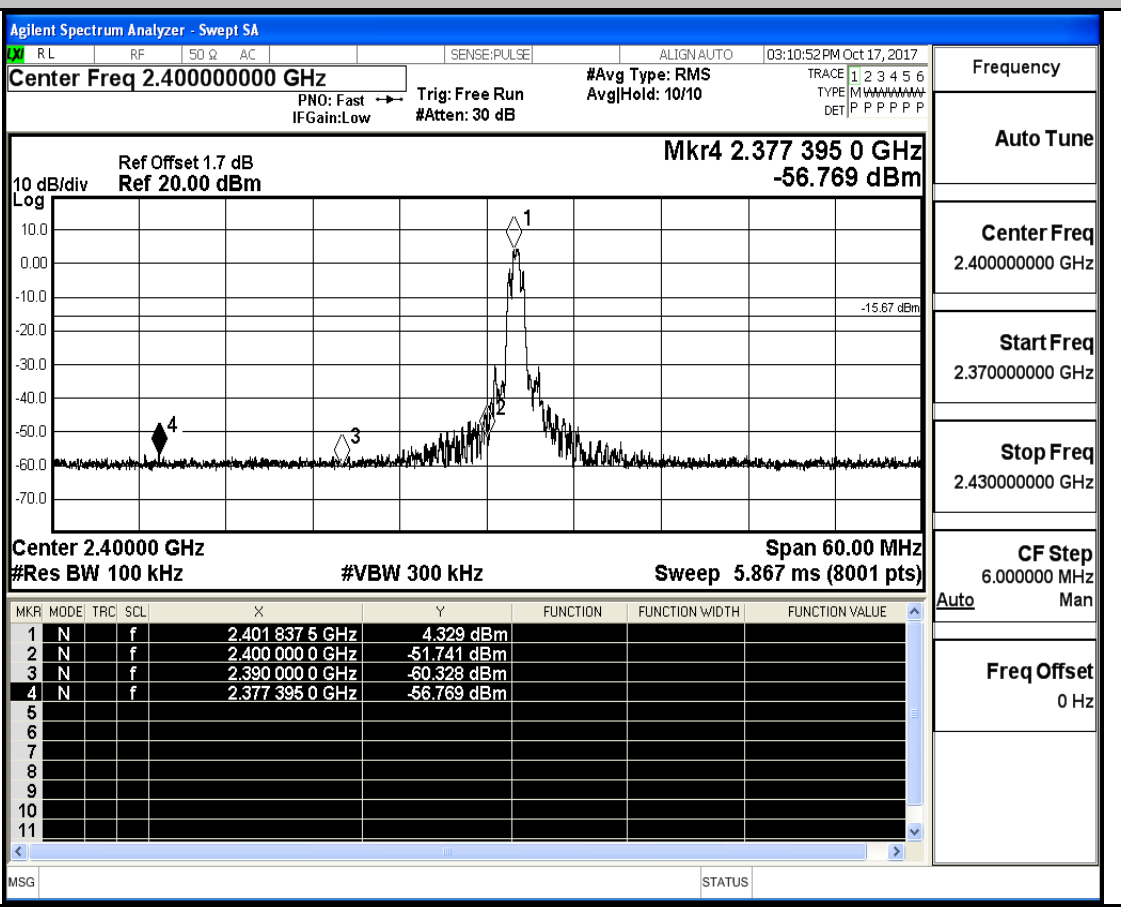
Band-edge for RF Conducted Emissions_2DH1_2480_Hopping Off



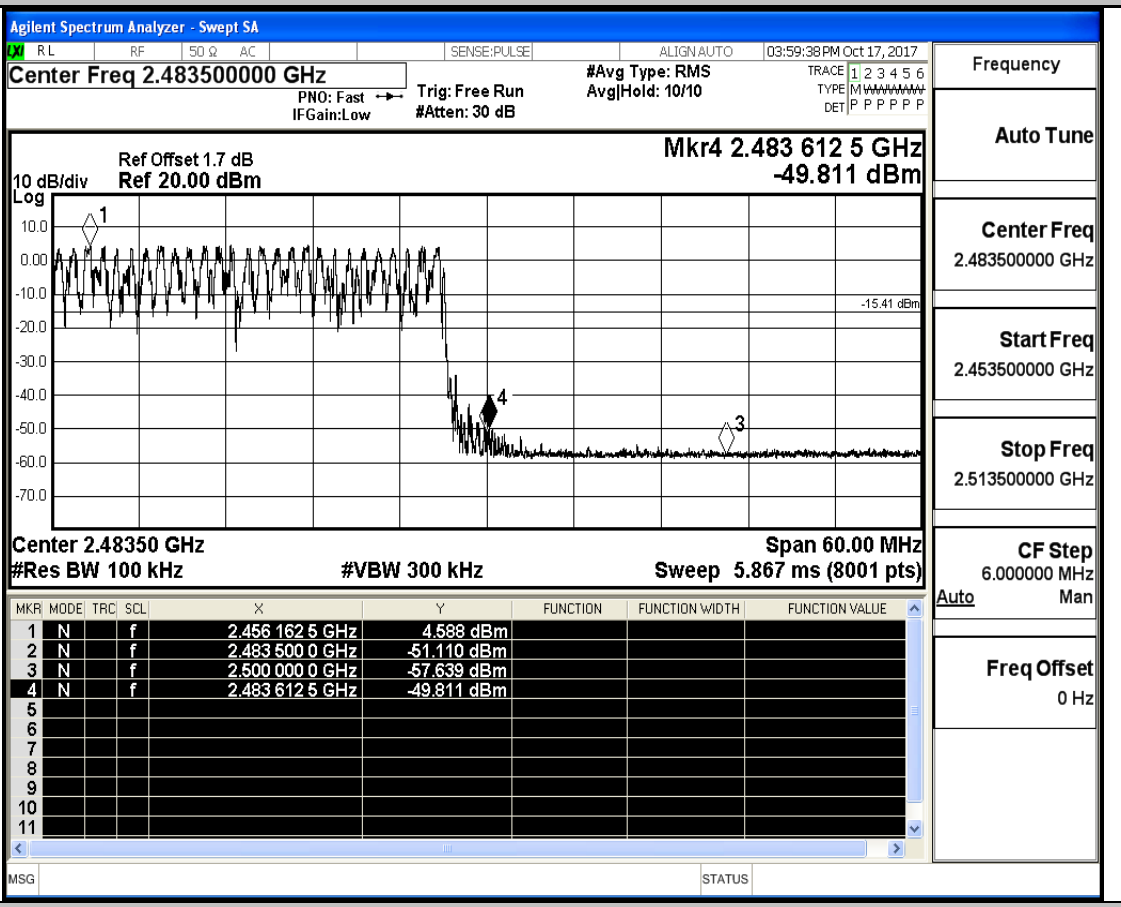
Band-edge for RF Conducted Emissions_3DH1_2402_Hopping On



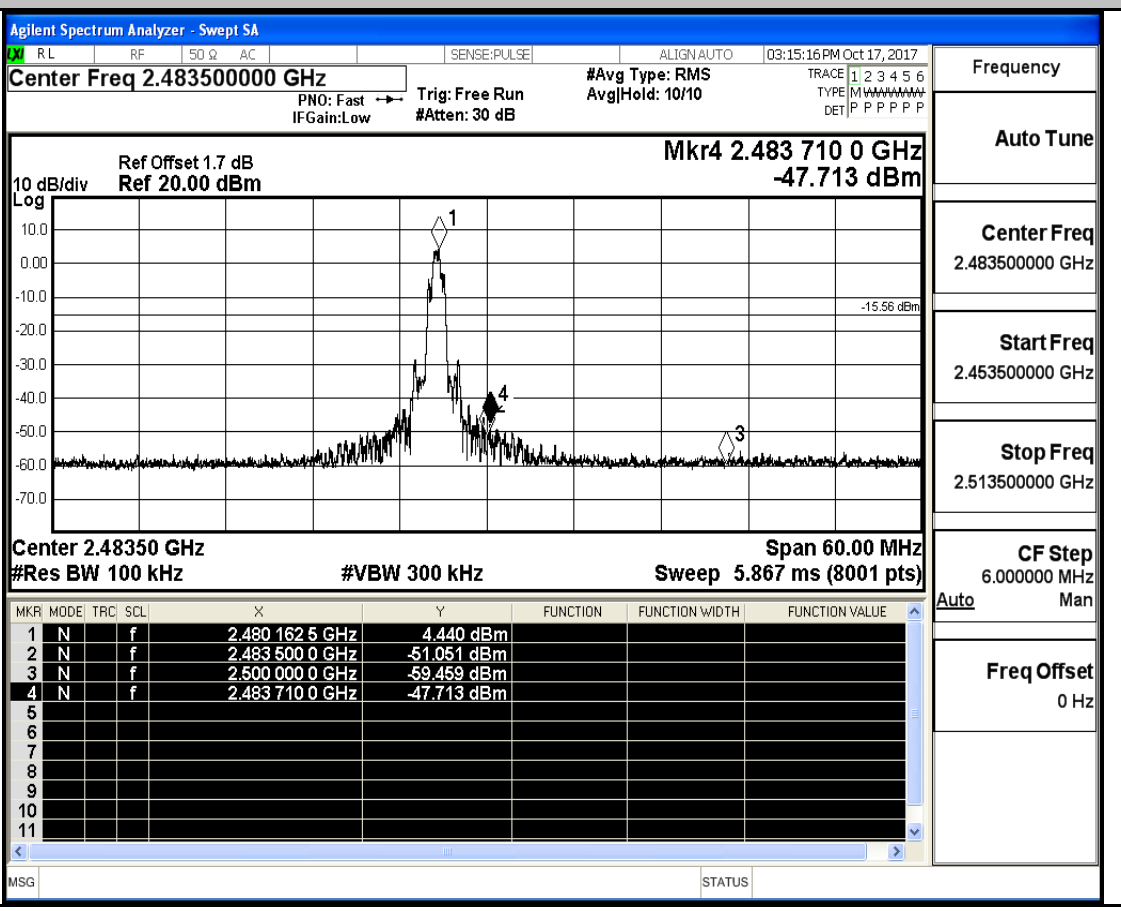
Band-edge for RF Conducted Emissions_3DH1_2402_Hopping Off



Band-edge for RF Conducted Emissions_3DH1_2480_Hopping On



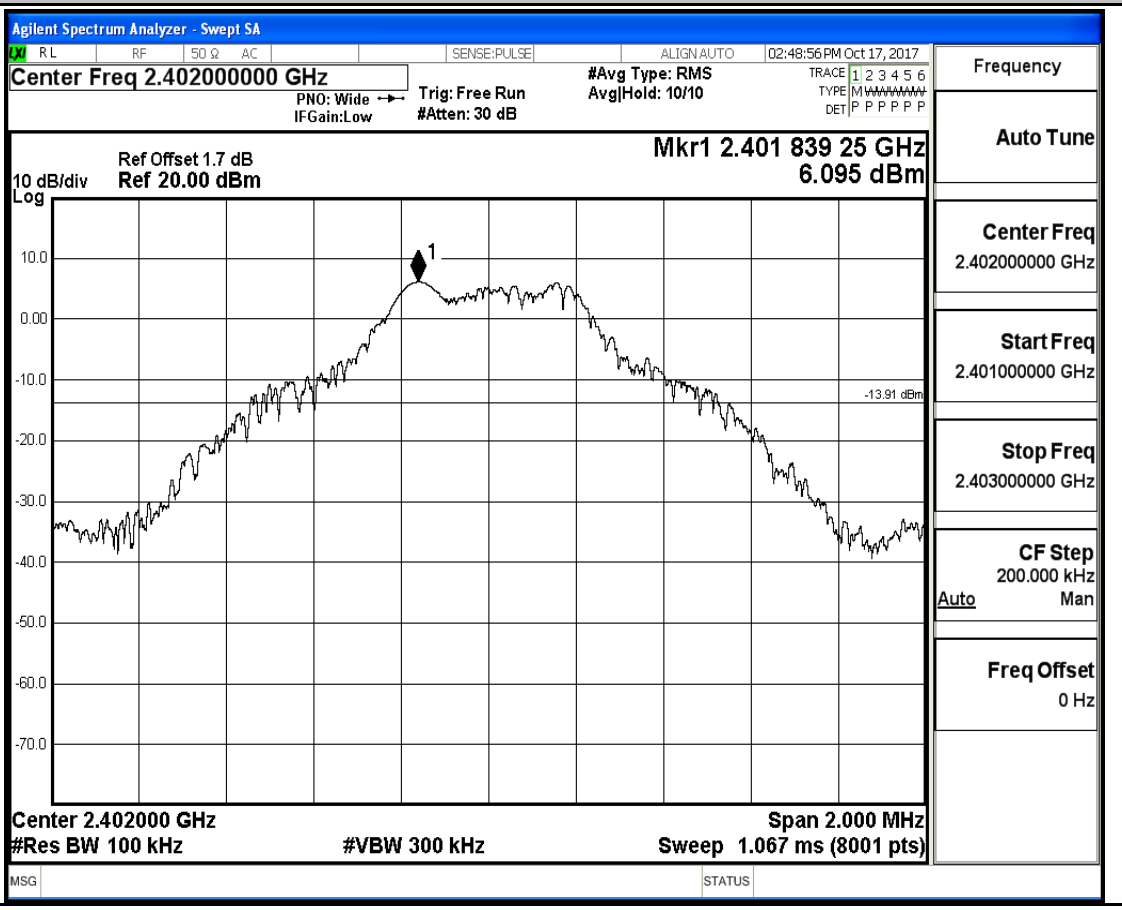
Band-edge for RF Conducted Emissions_3DH1_2480_Hopping Off

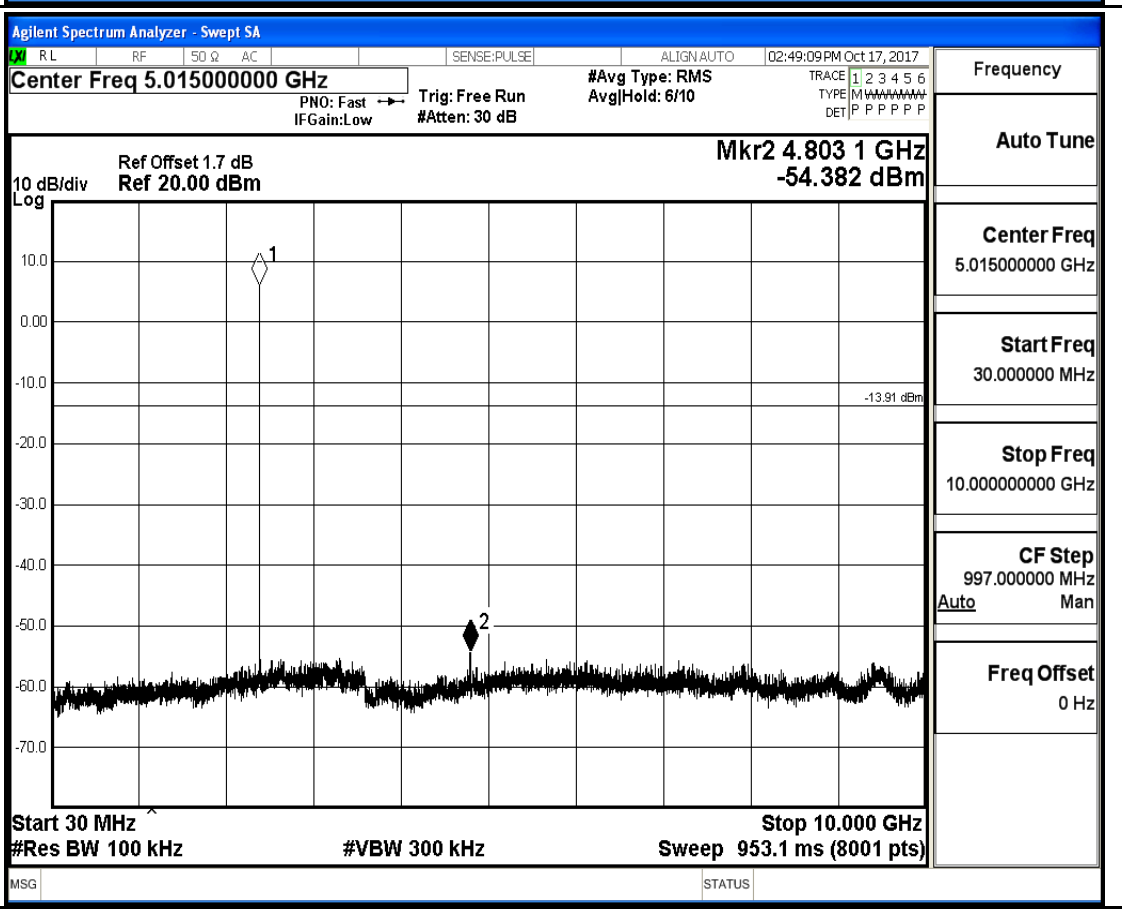


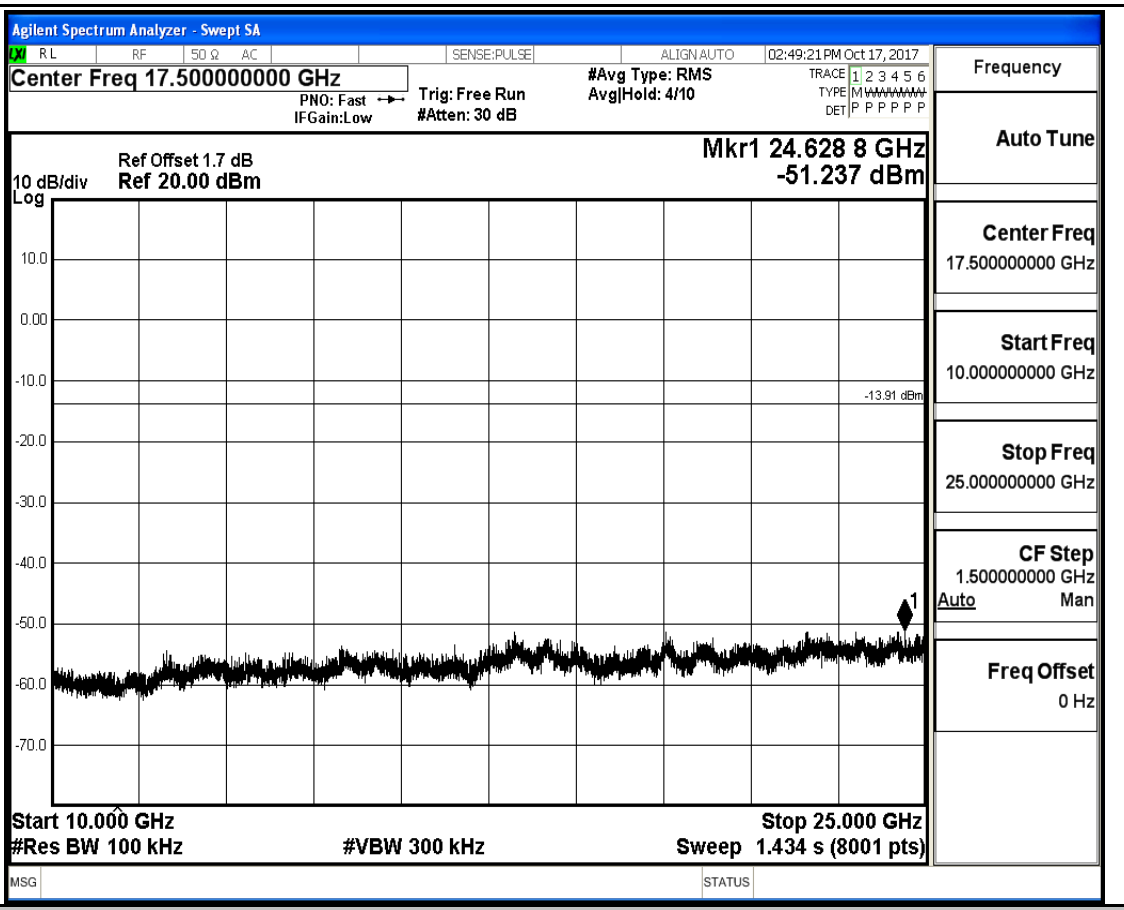
8.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH1	2402	30	10000	100	300	6.095	-54.382	<-13.905	PASS
DH1	2402	10000	25000	100	300	6.095	-51.237	<-13.905	PASS
DH1	2441	30	10000	100	300	6.087	-52.886	<-13.913	PASS
DH1	2441	10000	25000	100	300	6.087	-50.511	<-13.913	PASS
DH1	2480	30	10000	100	300	5.827	-54.168	<-14.173	PASS
DH1	2480	10000	25000	100	300	5.827	-51.177	<-14.173	PASS
2DH1	2402	30	10000	100	300	4.545	-54.918	<-15.455	PASS
2DH1	2402	10000	25000	100	300	4.545	-51.091	<-15.455	PASS
2DH1	2441	30	10000	100	300	4.701	-54.423	<-15.299	PASS
2DH1	2441	10000	25000	100	300	4.701	-50.808	<-15.299	PASS
2DH1	2480	30	10000	100	300	4.474	-55.103	<-15.526	PASS
2DH1	2480	10000	25000	100	300	4.474	-50.369	<-15.526	PASS
3DH1	2402	30	10000	100	300	4.562	-54.658	<-15.438	PASS
3DH1	2402	10000	25000	100	300	4.562	-49.975	<-15.438	PASS
3DH1	2441	30	10000	100	300	4.609	-55.325	<-15.391	PASS
3DH1	2441	10000	25000	100	300	4.609	-50.330	<-15.391	PASS
3DH1	2480	30	10000	100	300	4.436	-54.643	<-15.564	PASS
3DH1	2480	10000	25000	100	300	4.436	-50.625	<-15.564	PASS

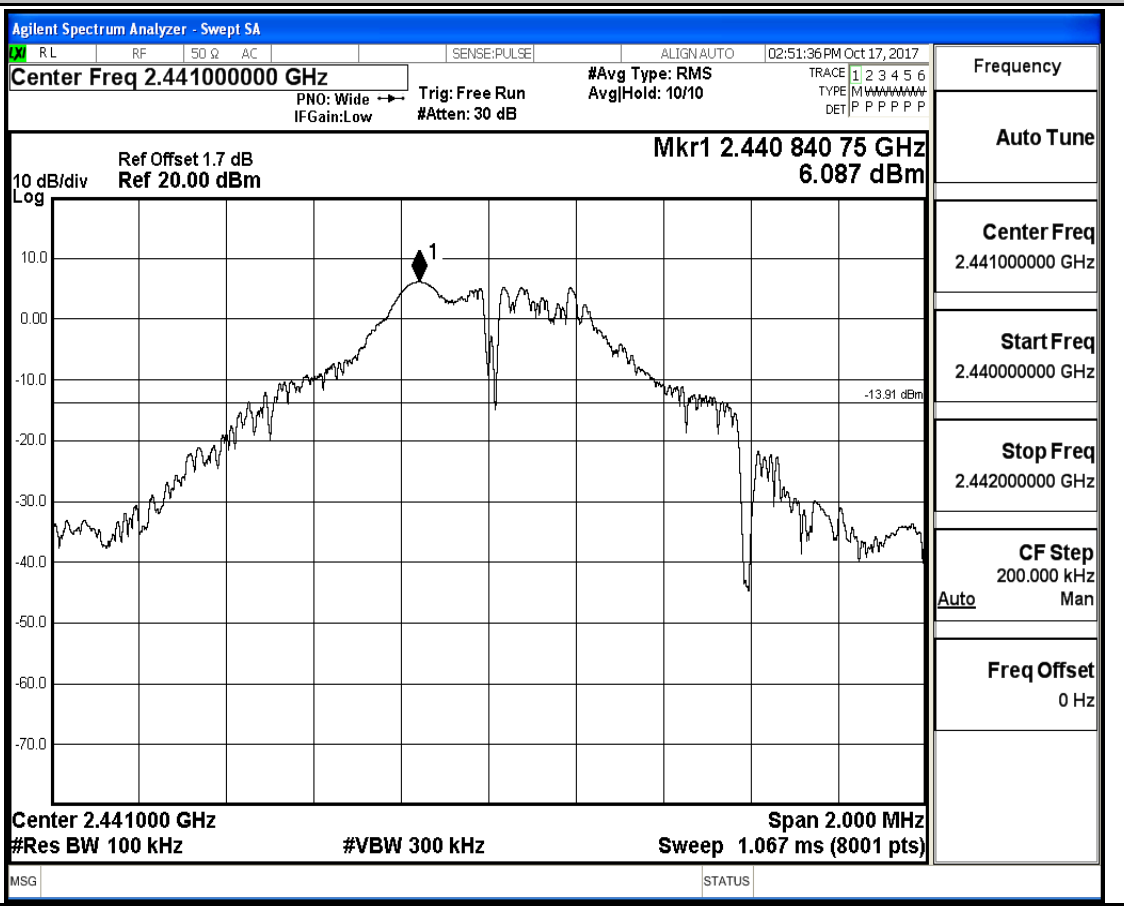
RF Conducted Spurious Emissions_DH1_2402

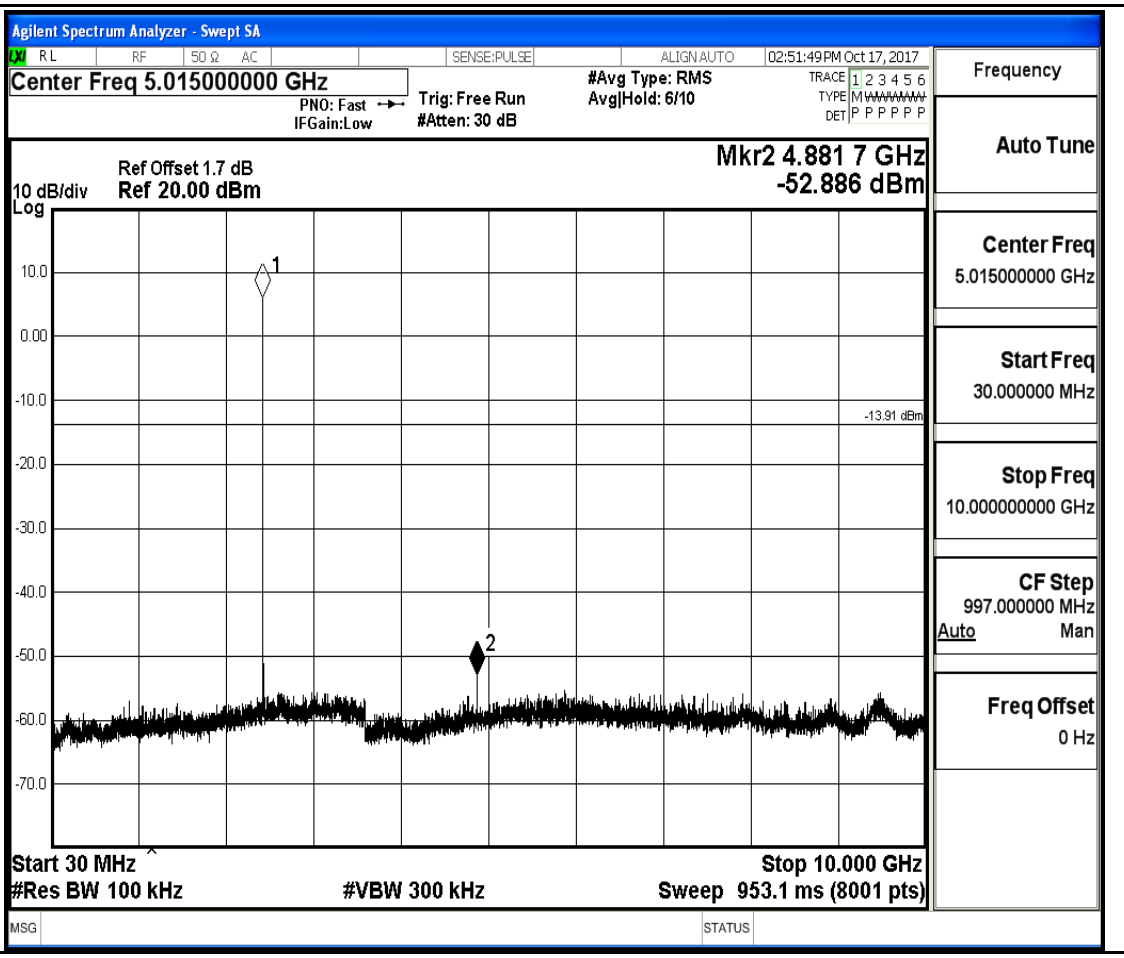


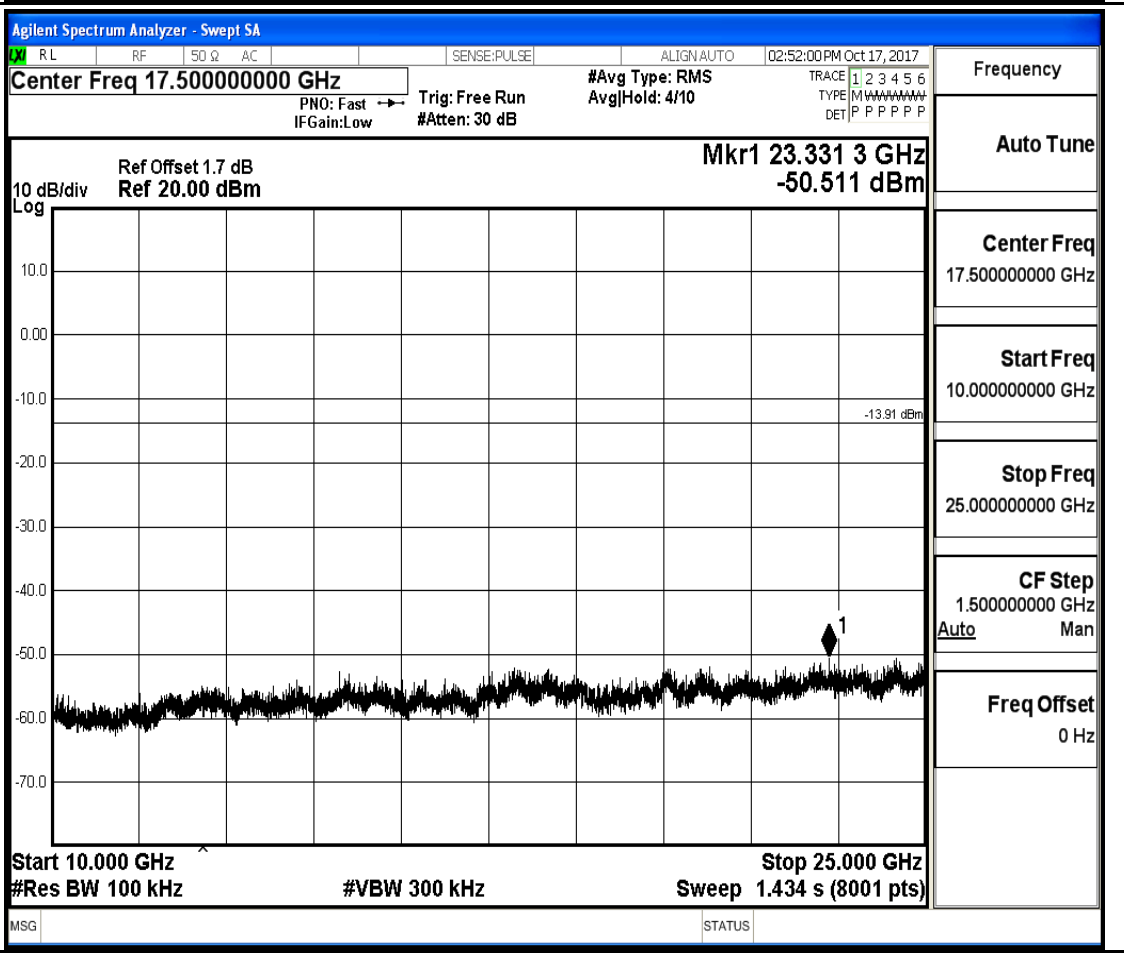




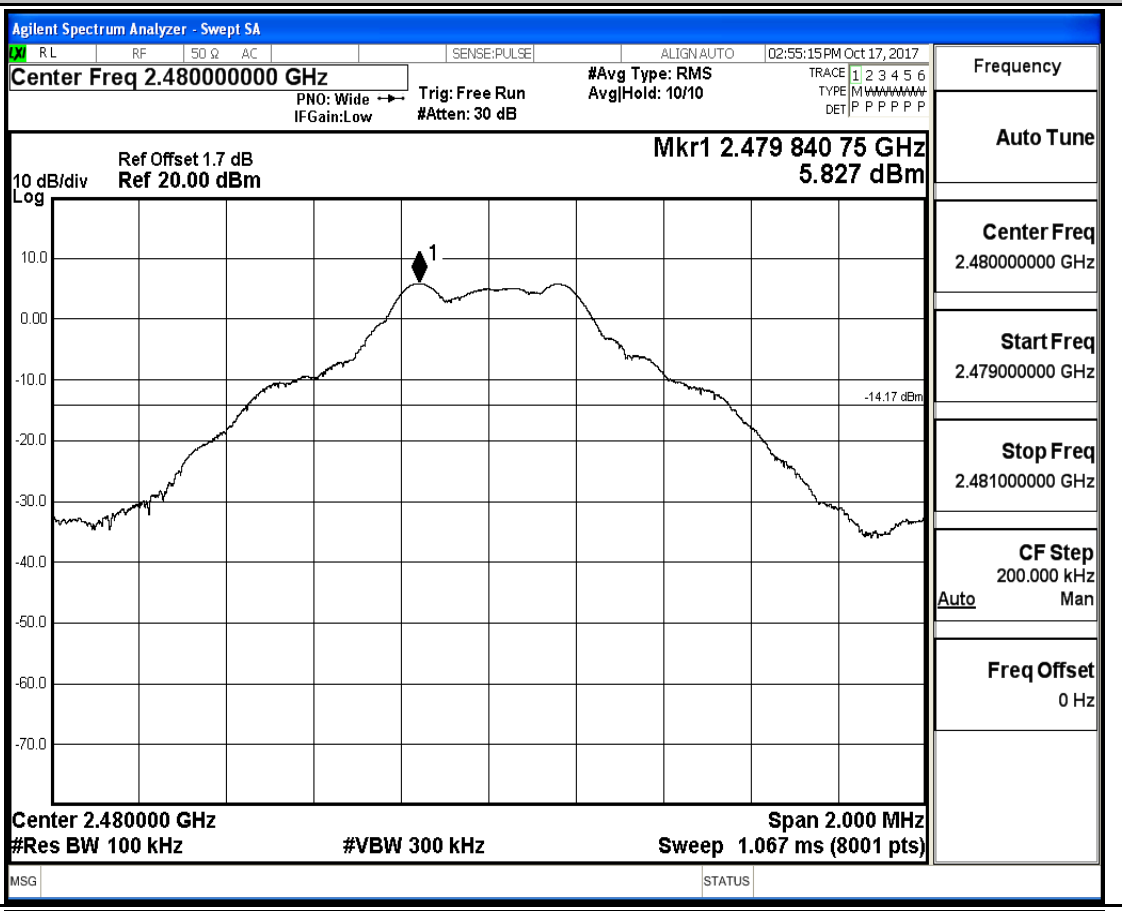
RF Conducted Spurious Emissions_DH1_2441

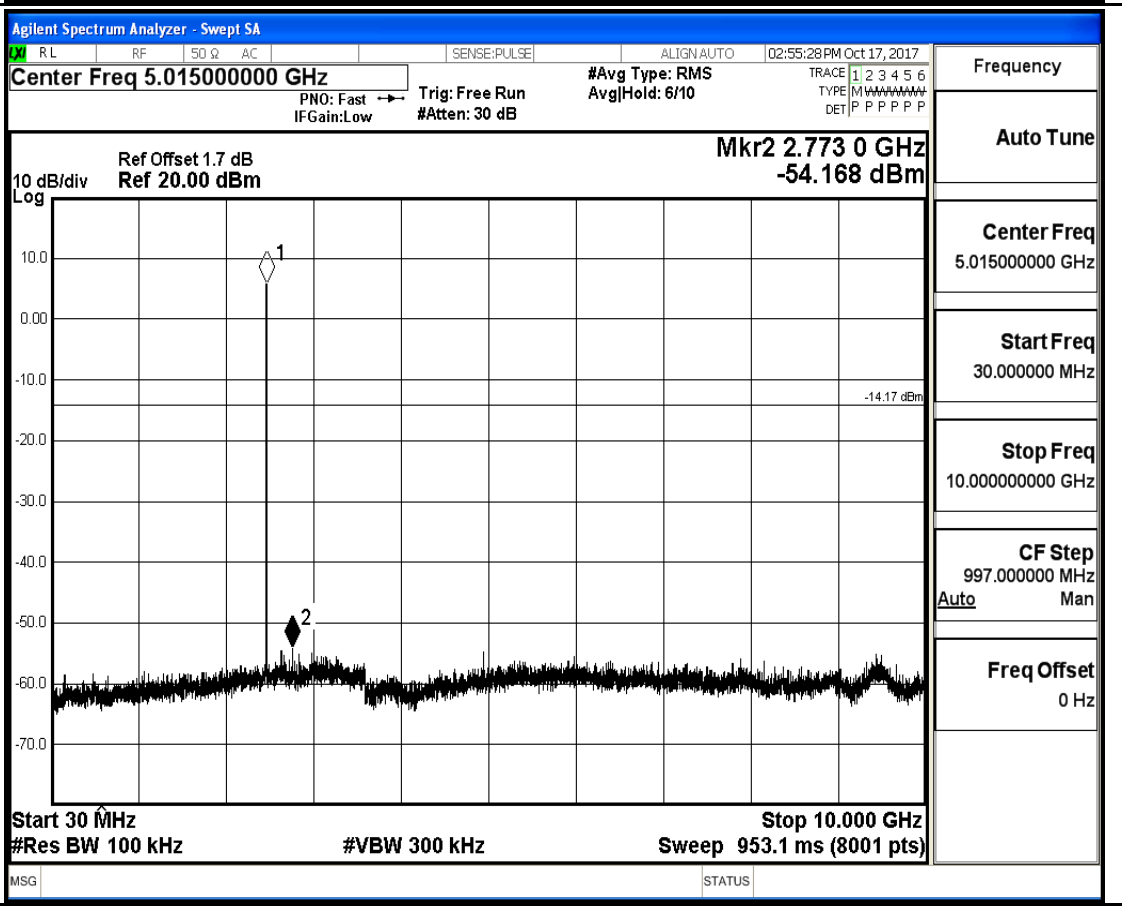


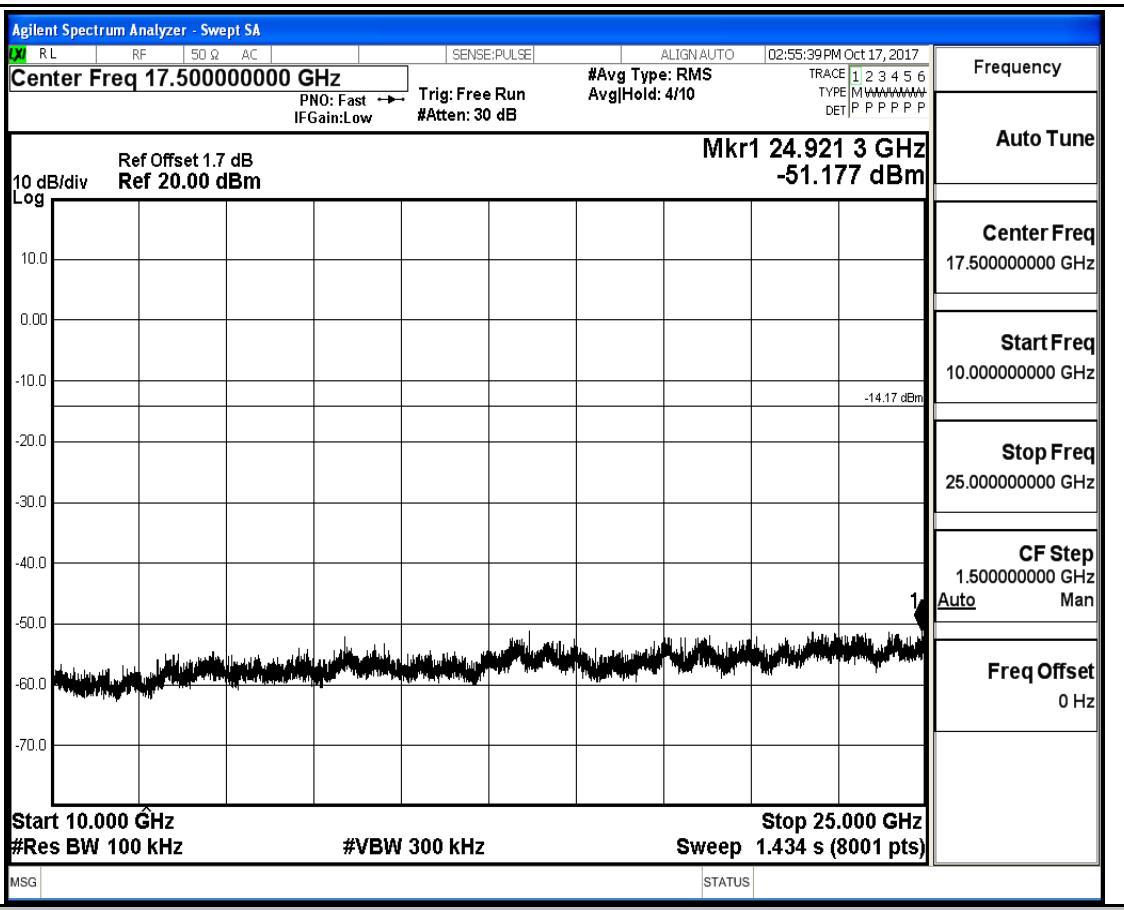

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
02:51:49 PM Oct 17, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 4.881 7 GHz
-52.886 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-13.91 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
02:52:00 PM Oct 17, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 23.331 3 GHz
-50.511 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-13.91 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

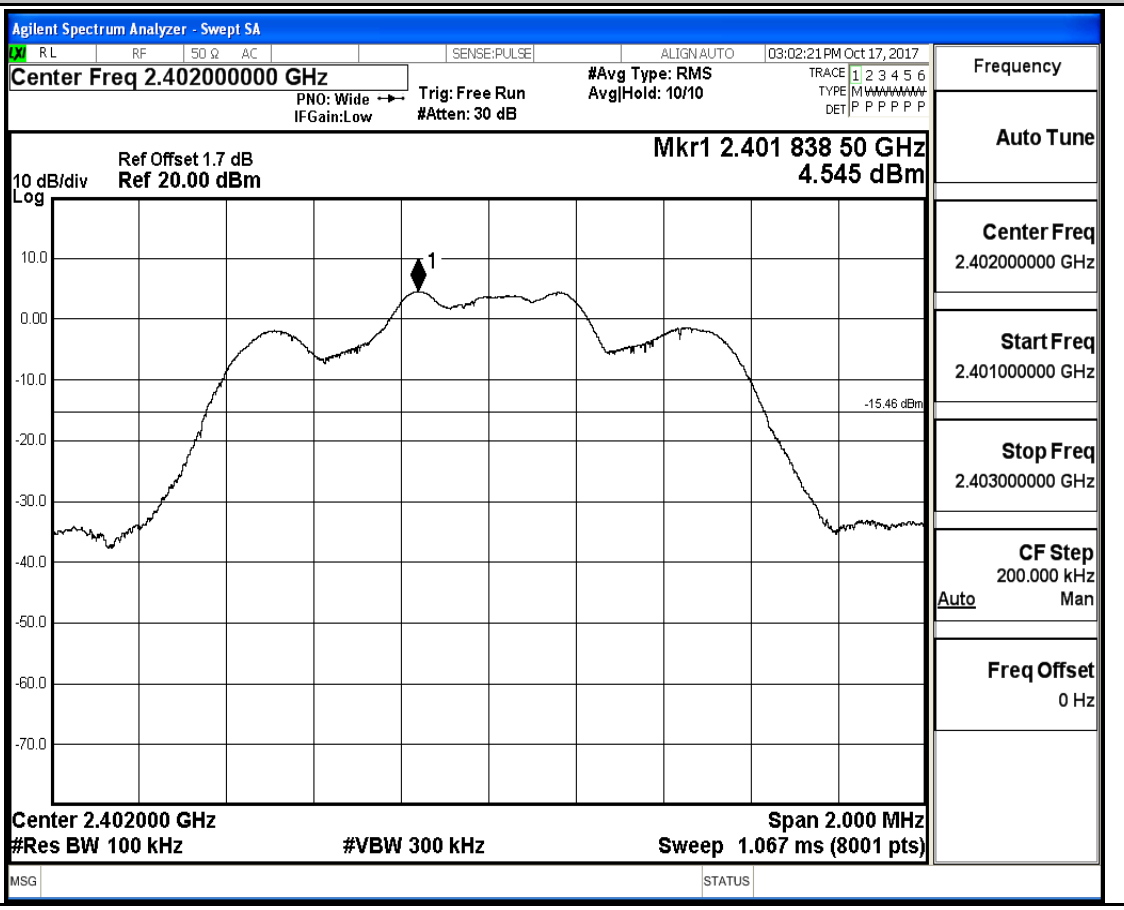
RF Conducted Spurious Emissions_DH1_2480

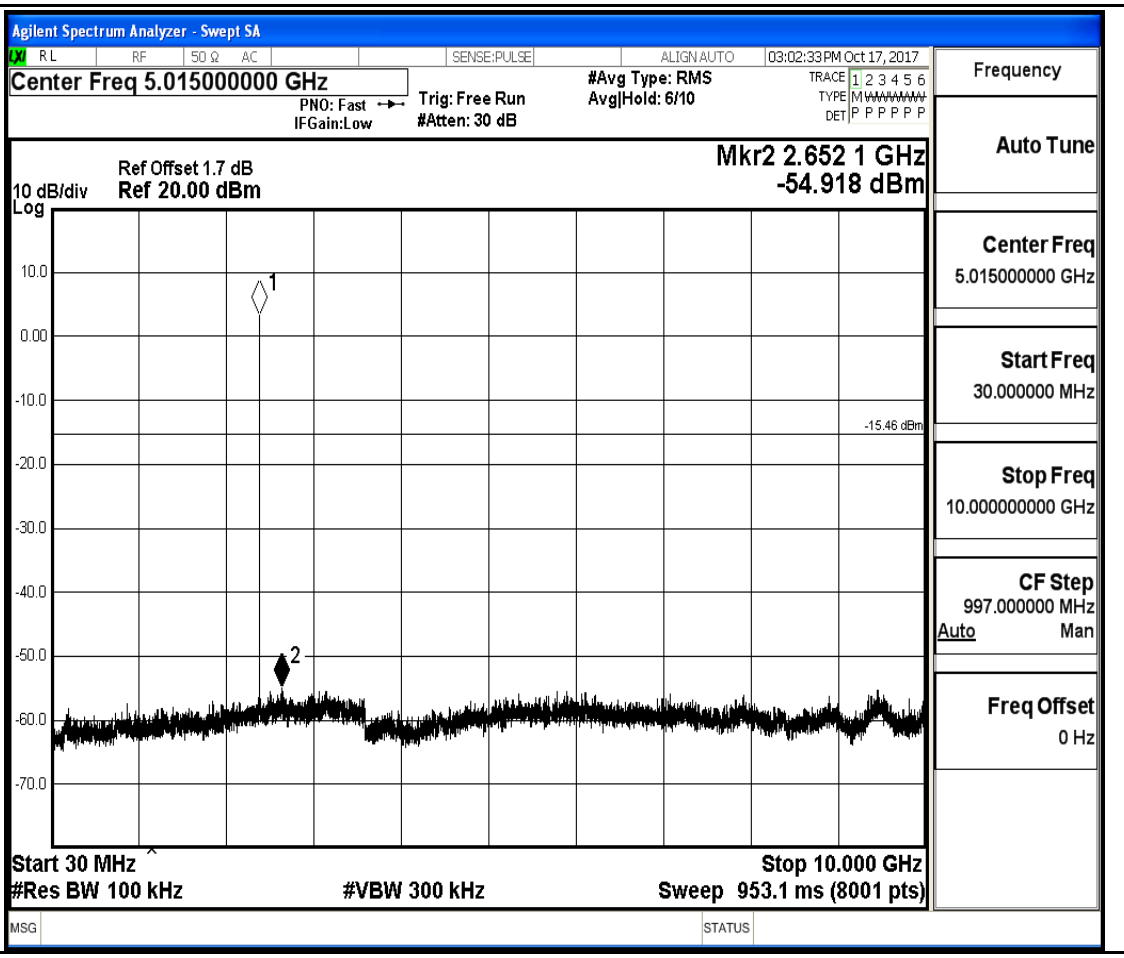


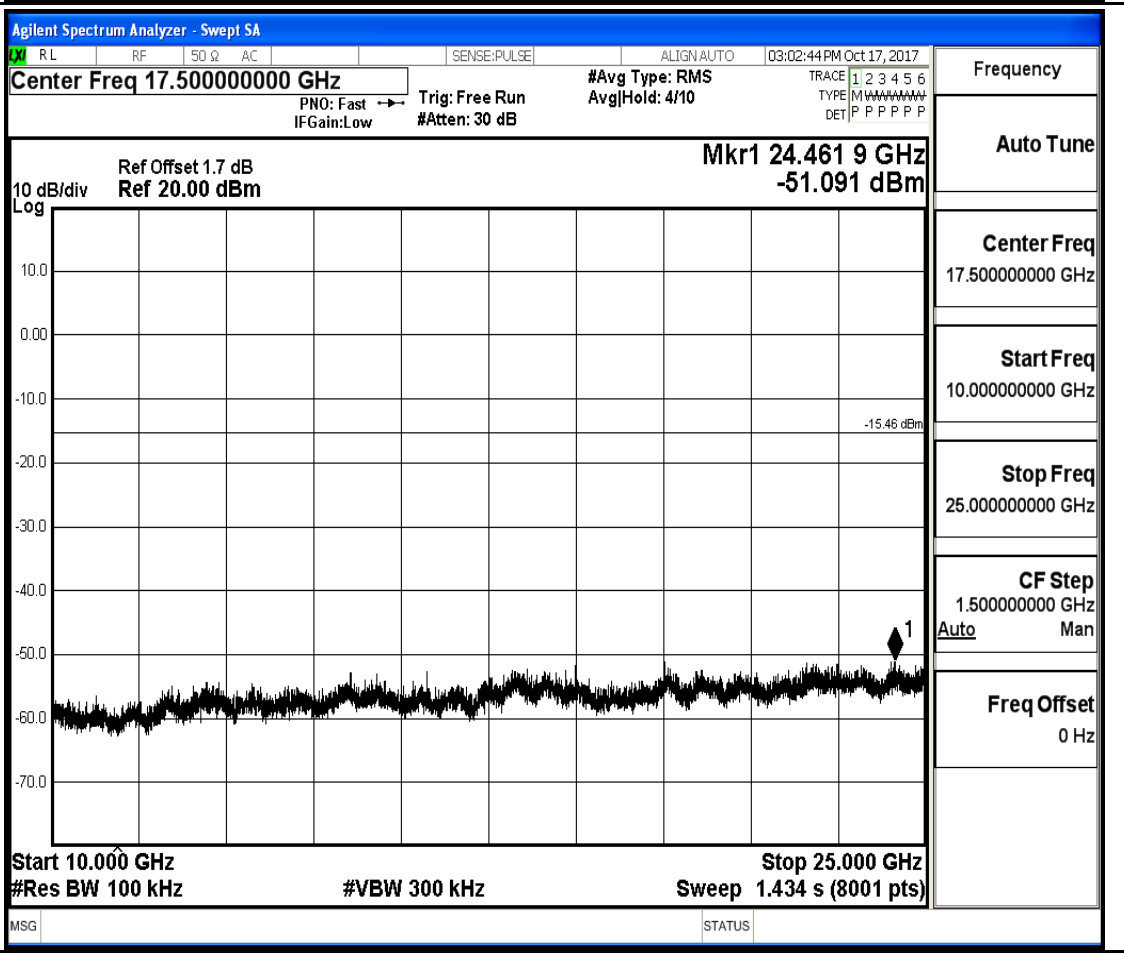




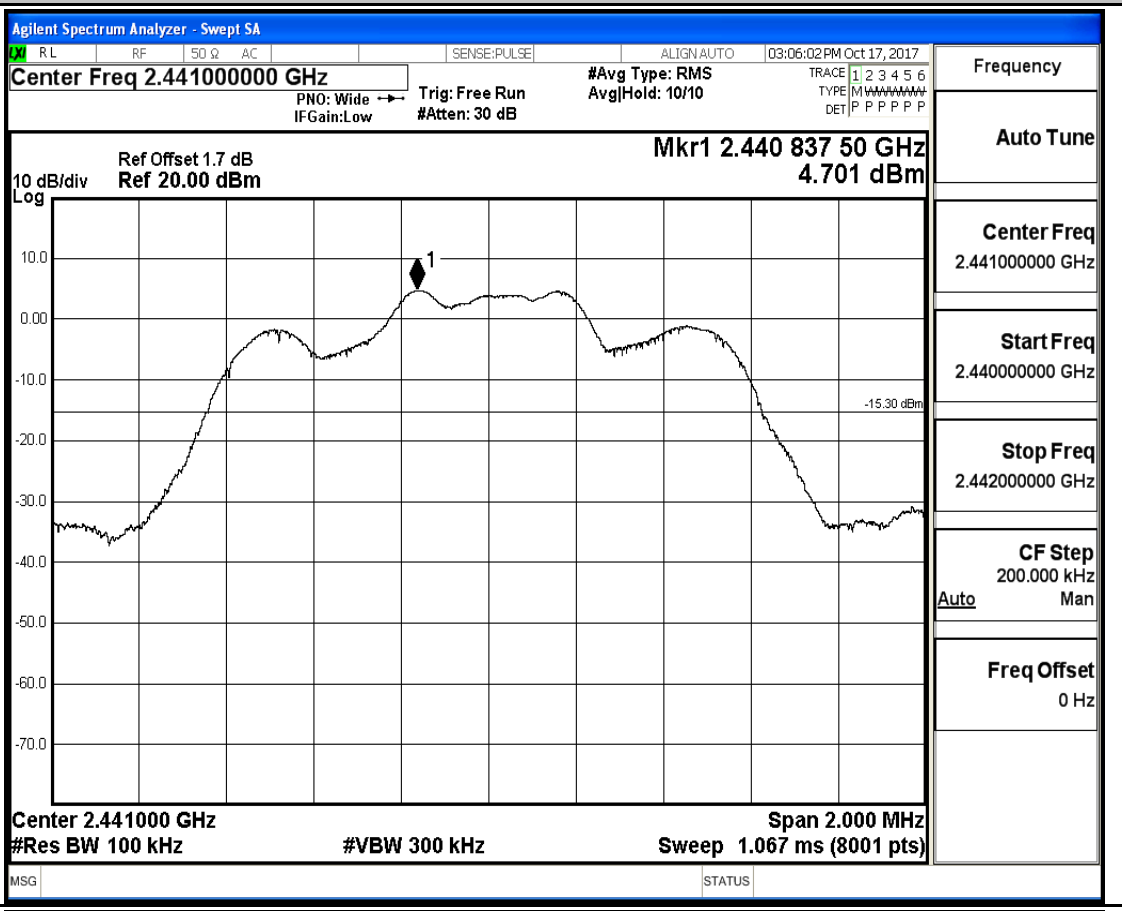
RF Conducted Spurious Emissions_2DH1_2402

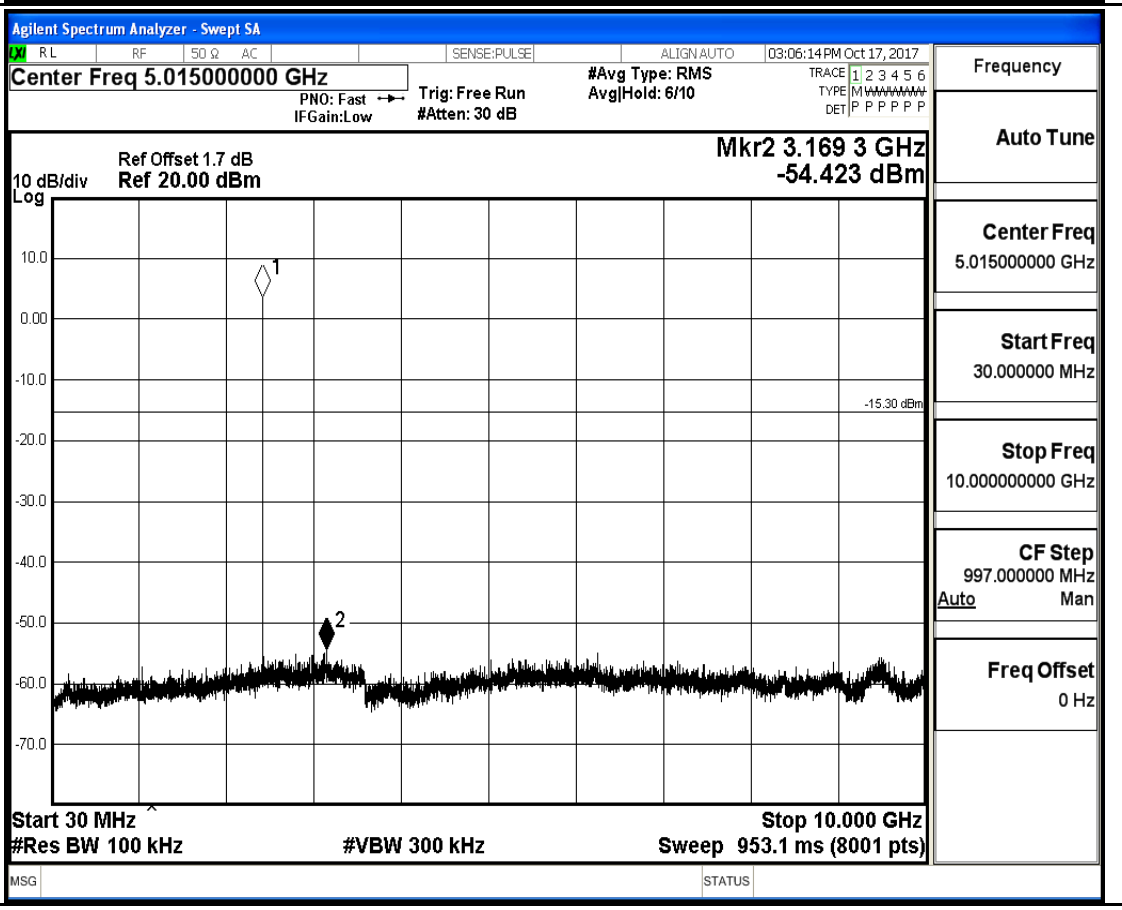


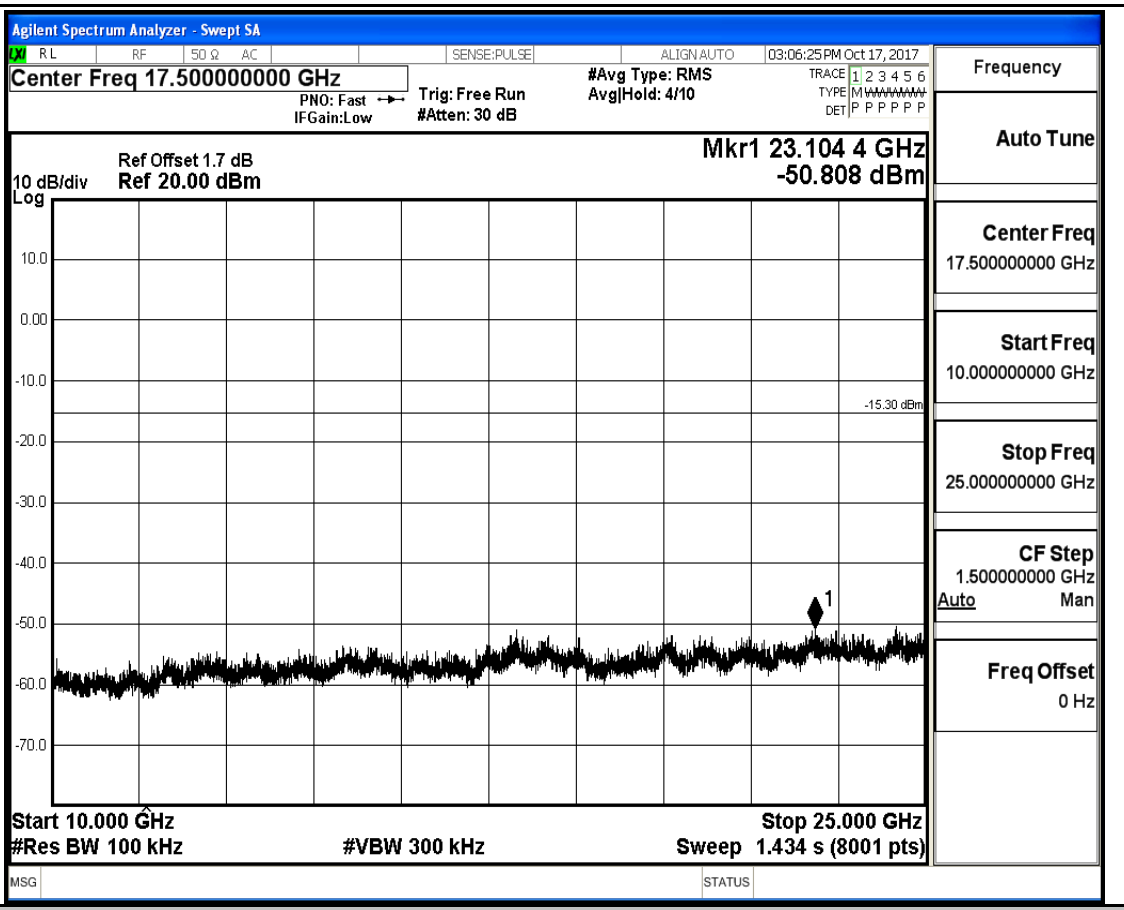

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
03:02:33 PM Oct 17, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 2.652 1 GHz
-54.918 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-15.46 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
03:02:44 PM Oct 17, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 24.461 9 GHz
-51.091 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-15.46 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

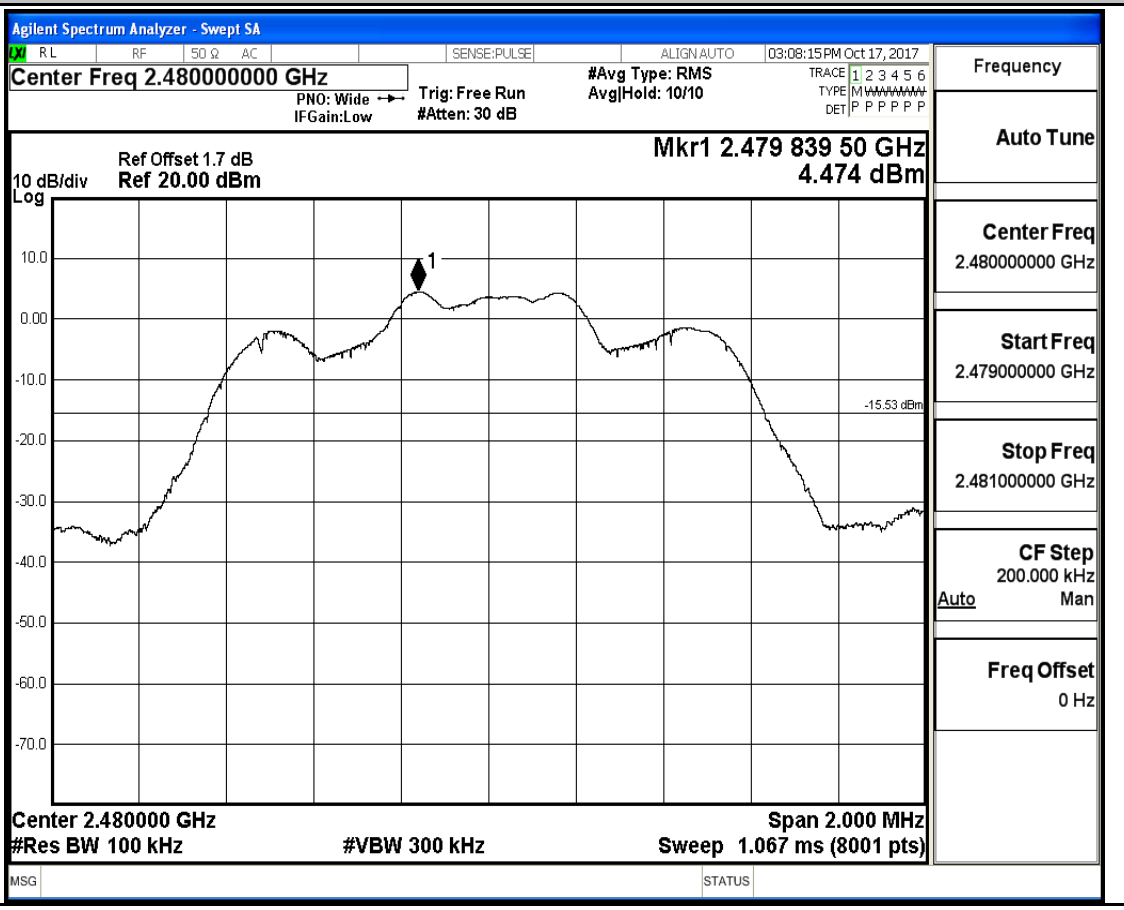
RF Conducted Spurious Emissions_2DH1_2441

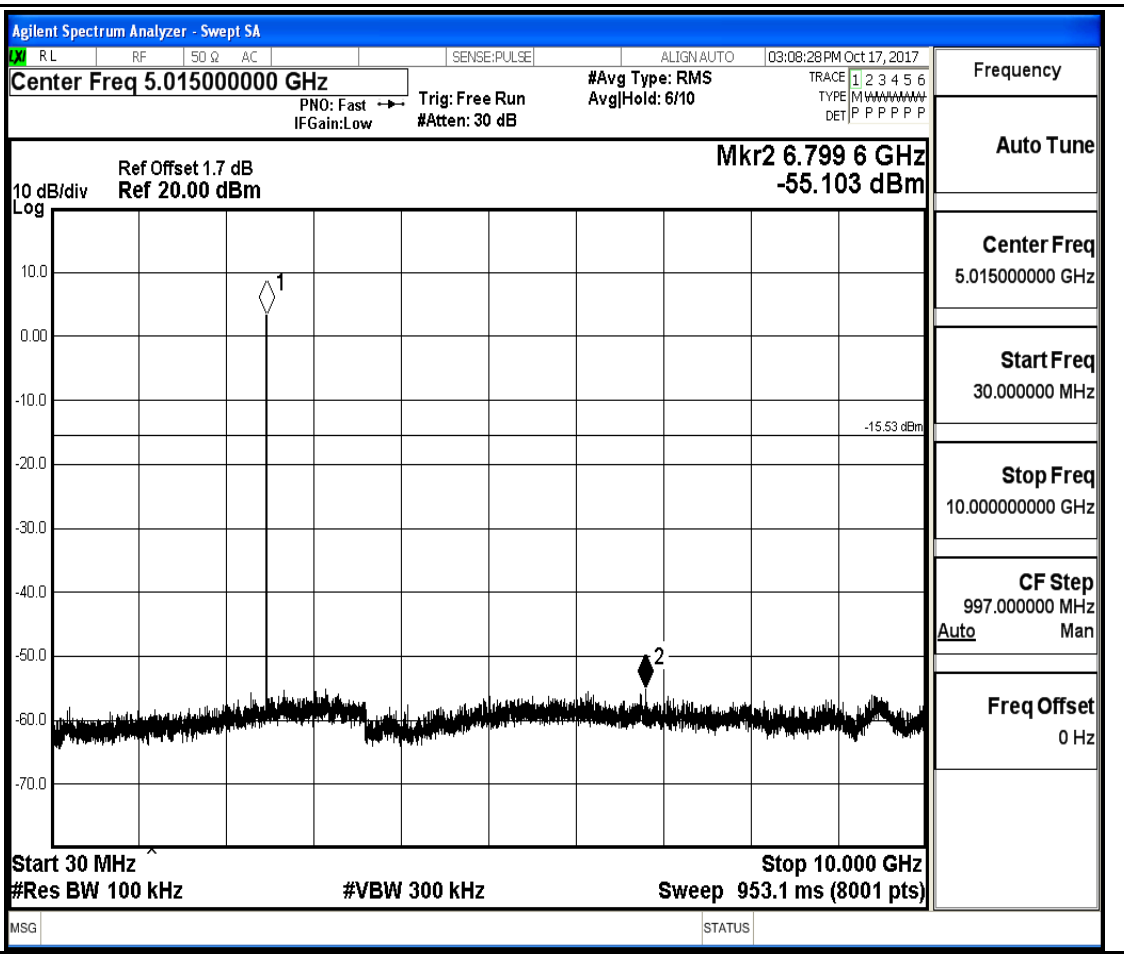


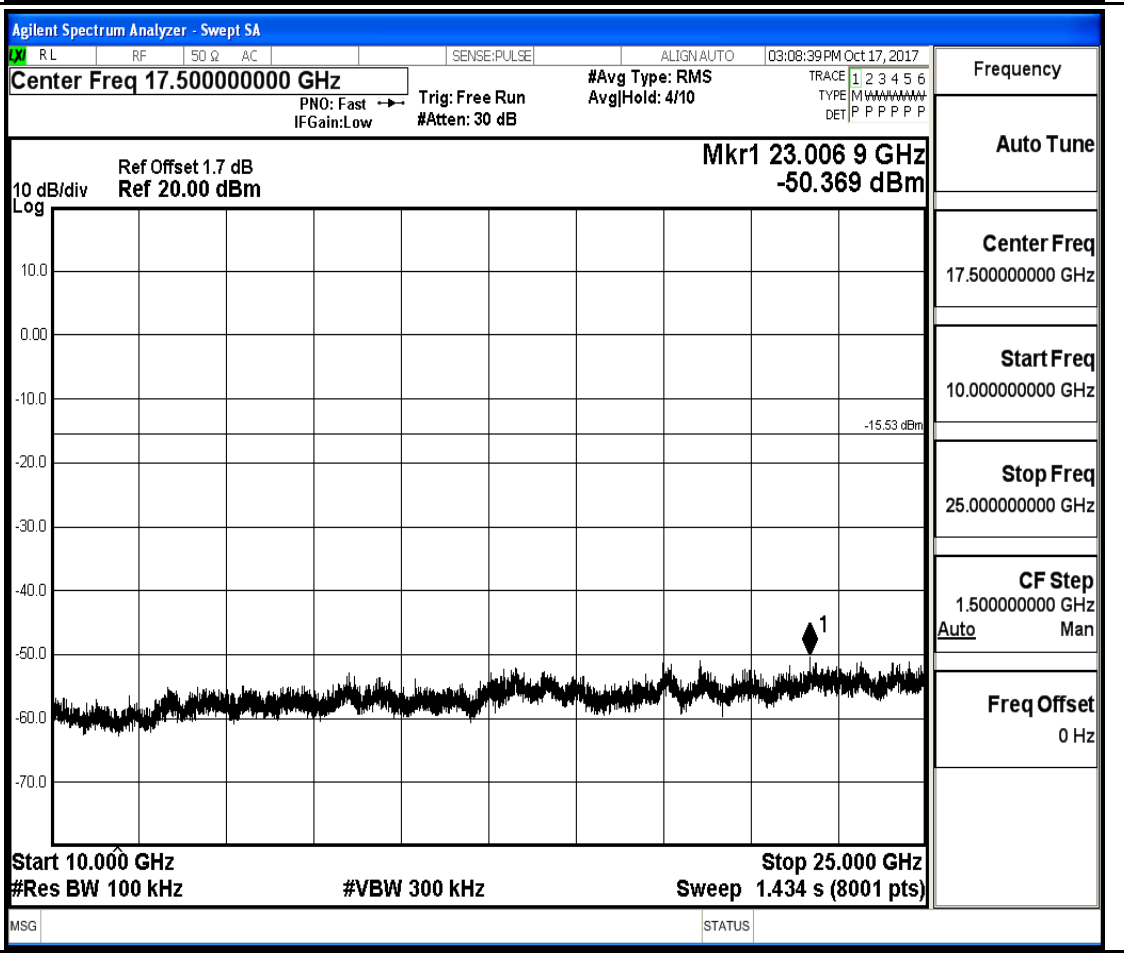




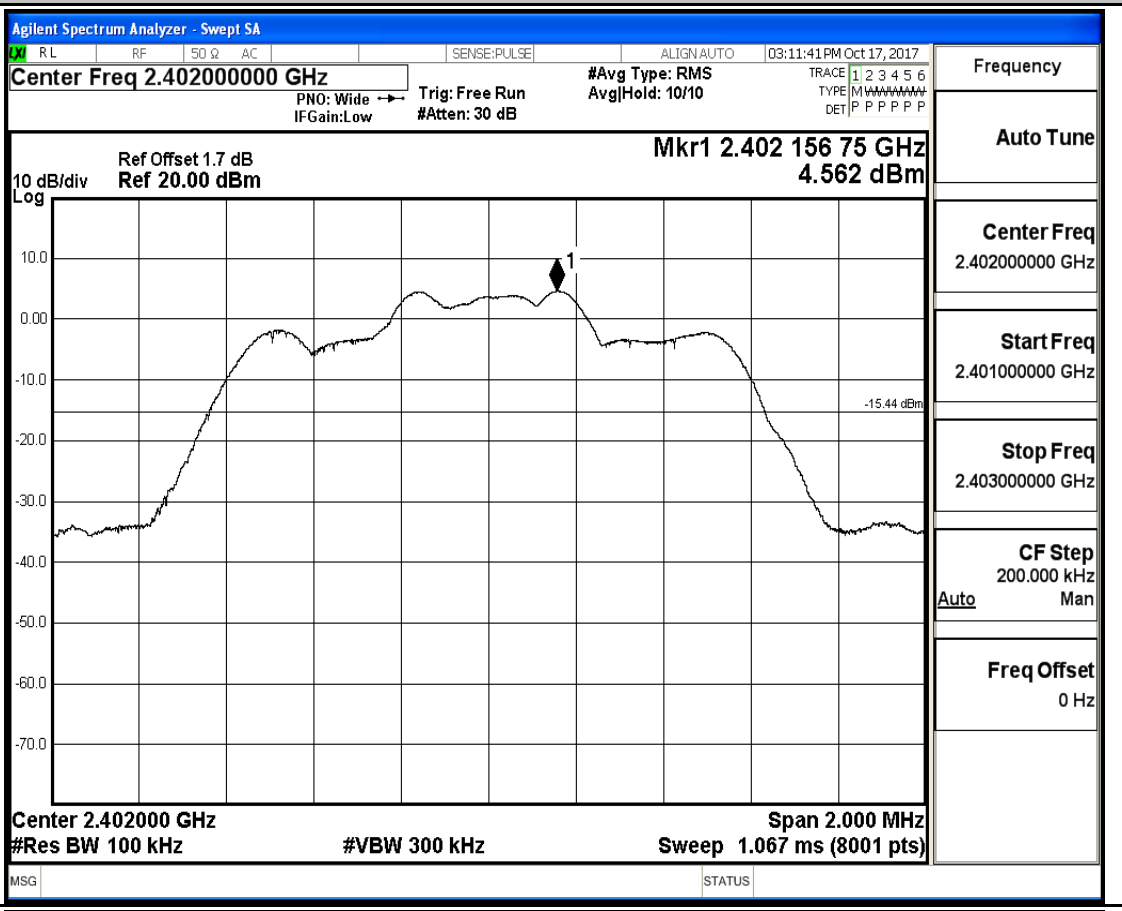
RF Conducted Spurious Emissions_2DH1_2480

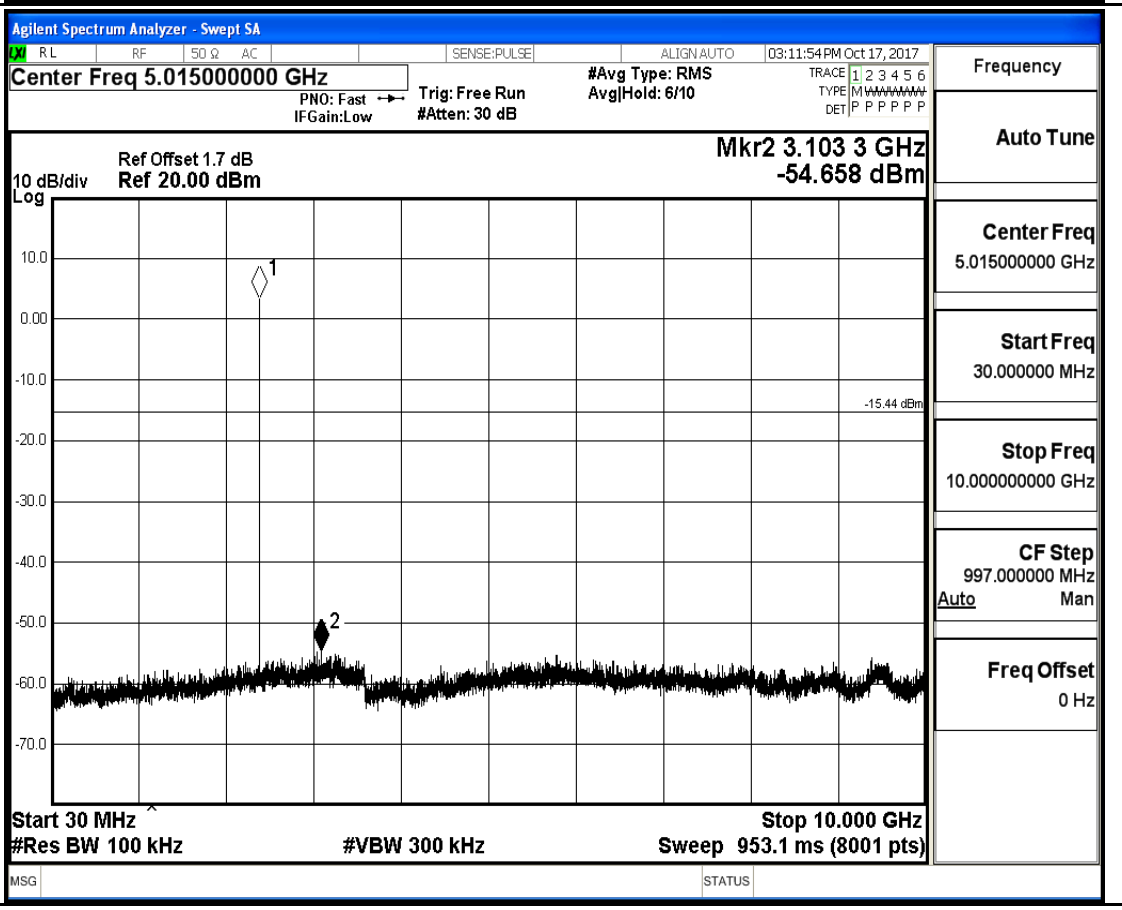


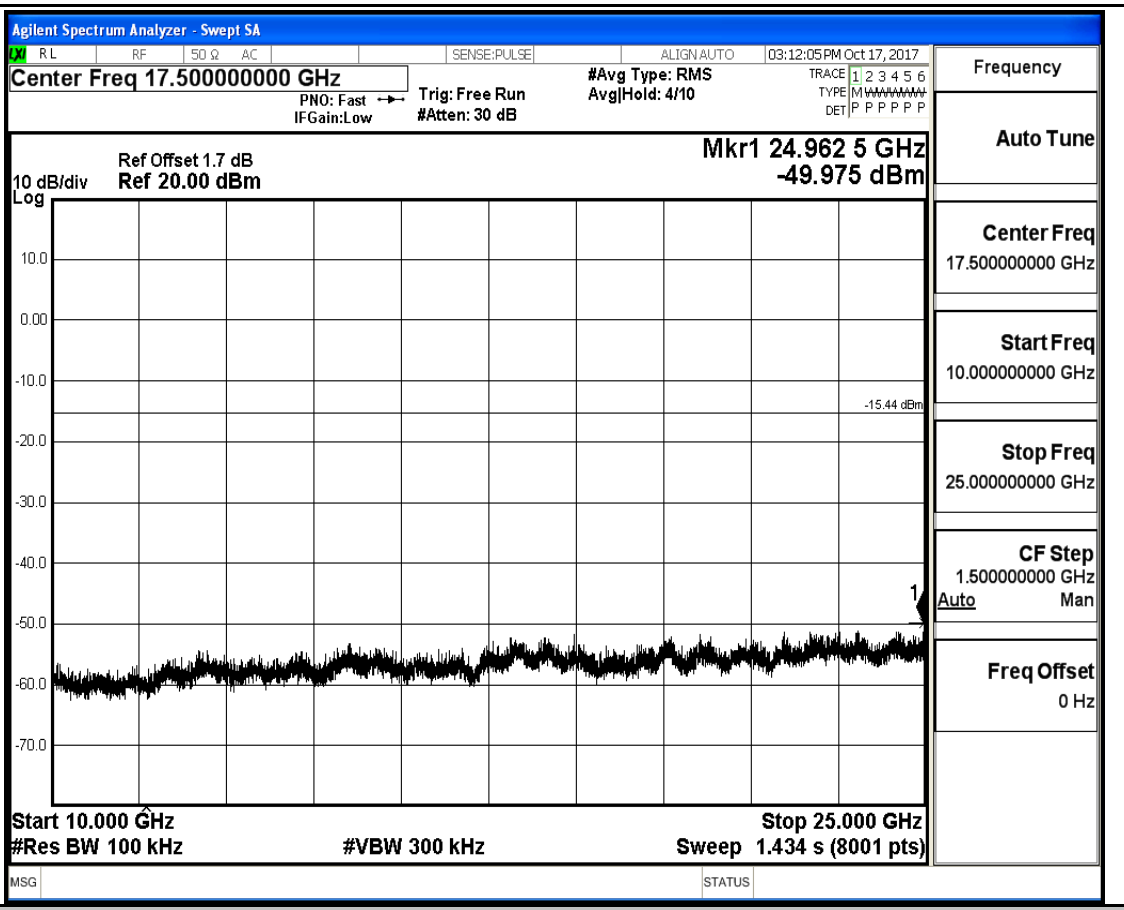

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
03:08:28 PM Oct 17, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 6.799 6 GHz
-55.103 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-15.53 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
03:08:39 PM Oct 17, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 23.006 9 GHz
-50.369 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-15.53 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

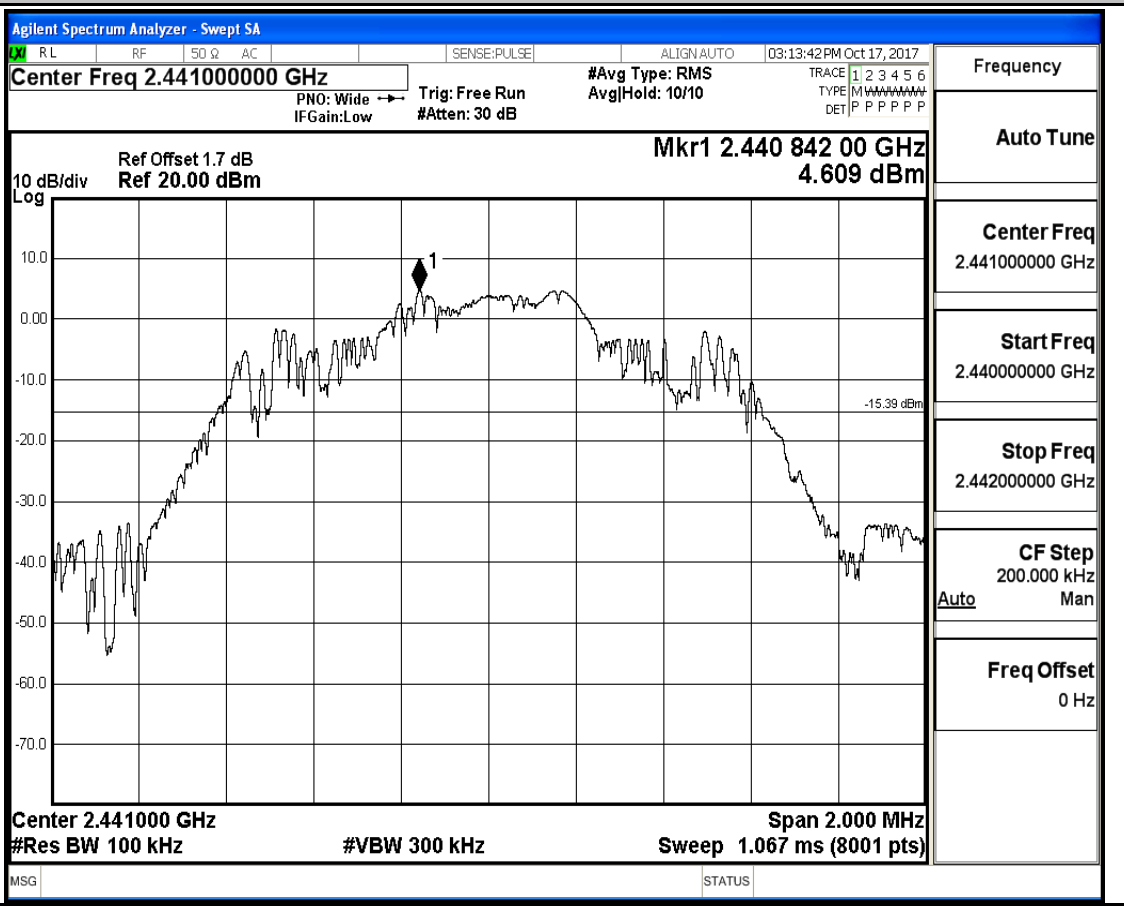
RF Conducted Spurious Emissions_3DH1_2402

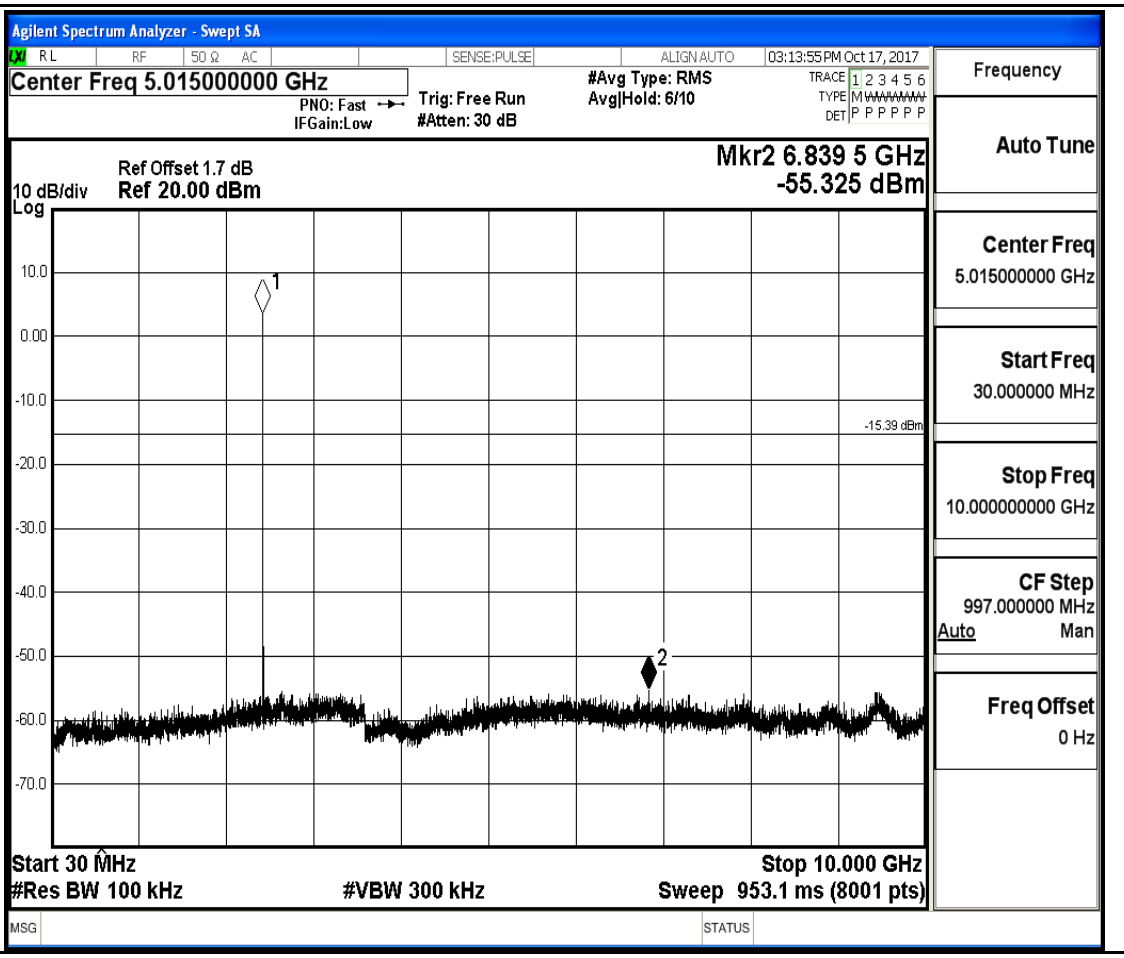


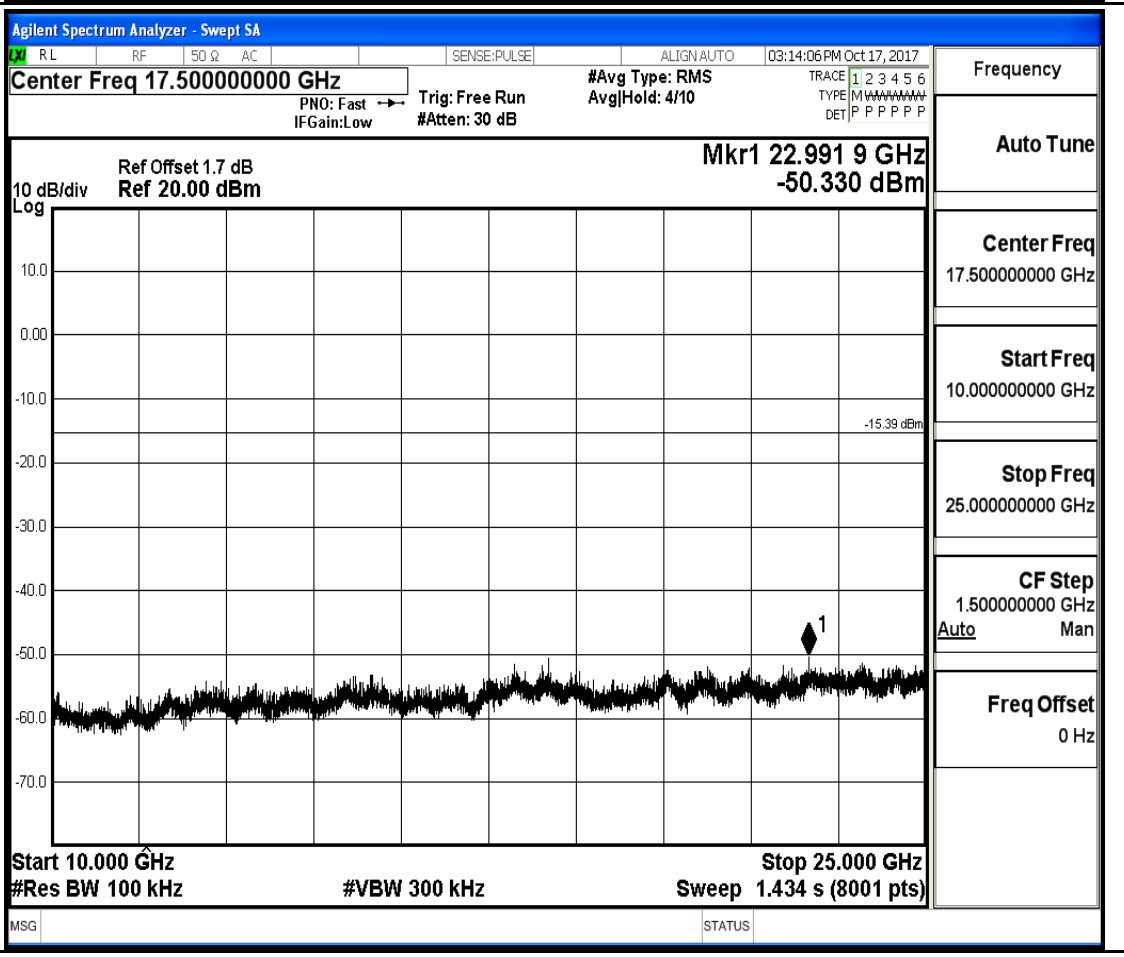




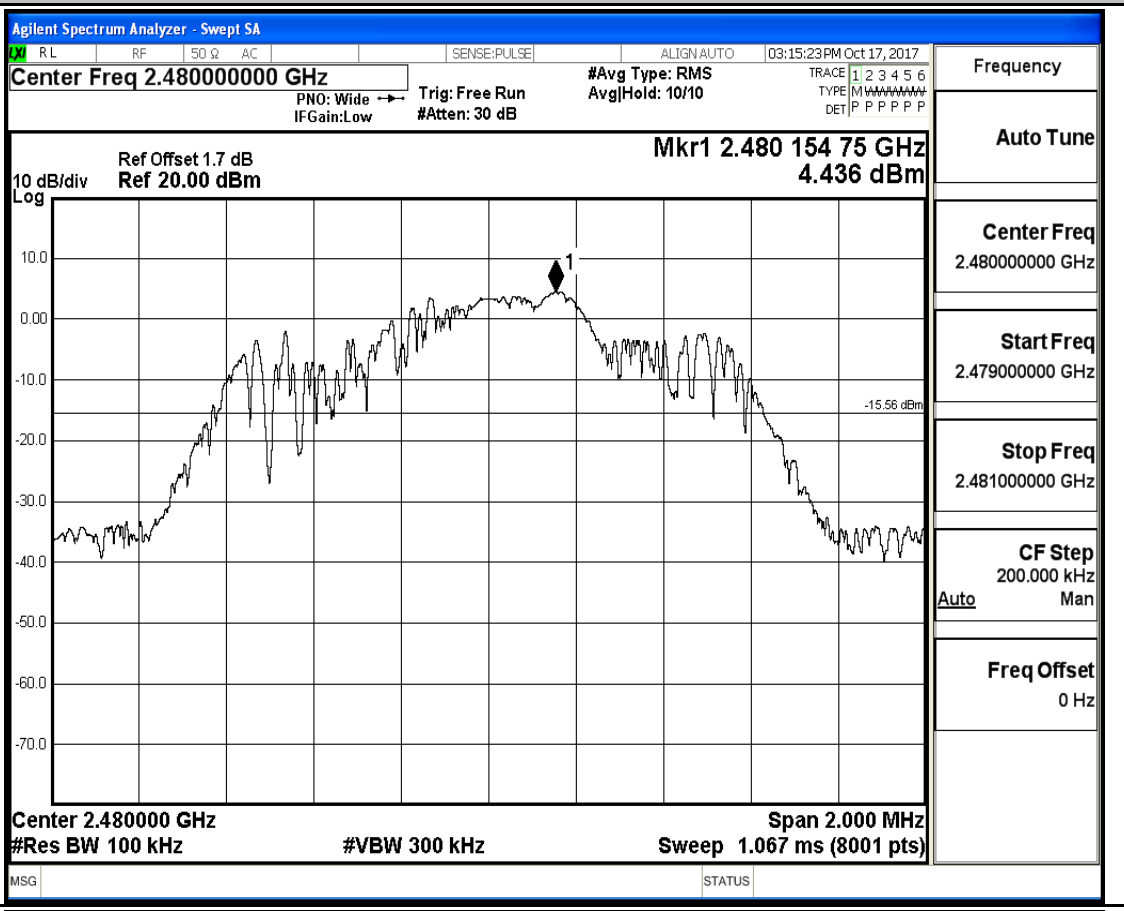
RF Conducted Spurious Emissions_3DH1_2441

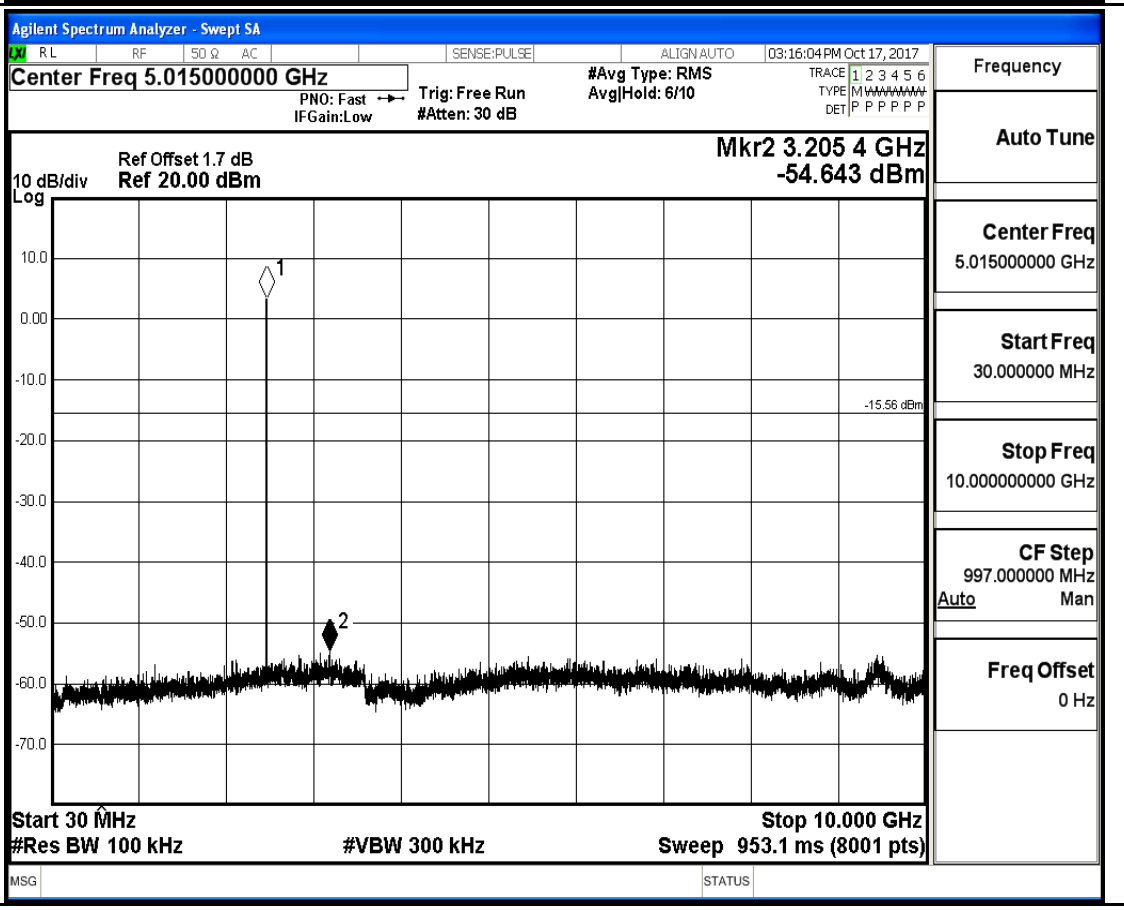


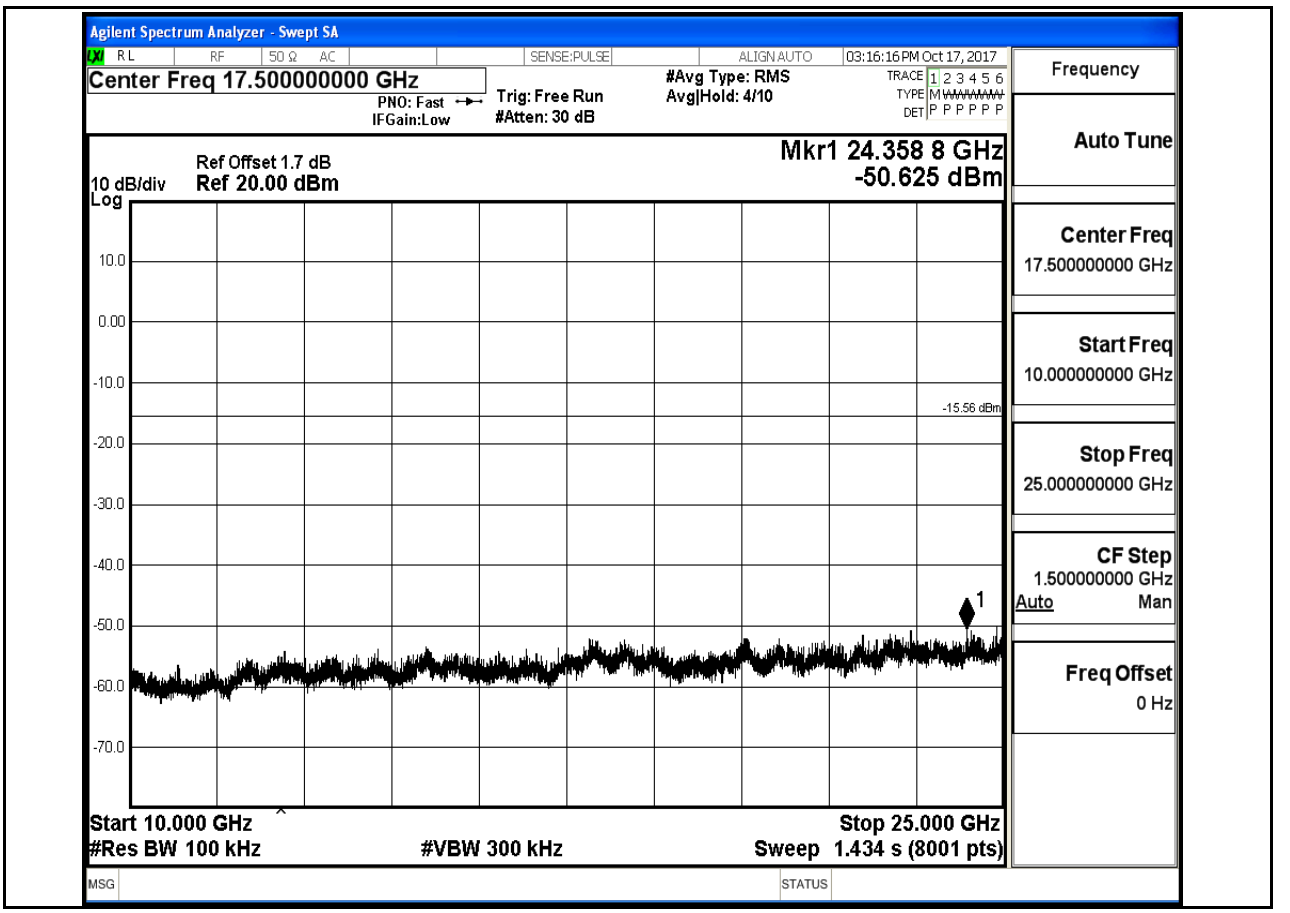

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
03:13:55 PM Oct 17, 2017
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 6/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr2 6.839 5 GHz
-55.325 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-15.39 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
03:14:06 PM Oct 17, 2017
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Ref Offset 1.7 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 22.991 9 GHz
-50.330 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-15.39 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
17.500000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
25.000000000 GHz
CF Step
1.500000000 GHz
Auto
Man
Freq Offset
0 Hz

RF Conducted Spurious Emissions_3DH1_2480



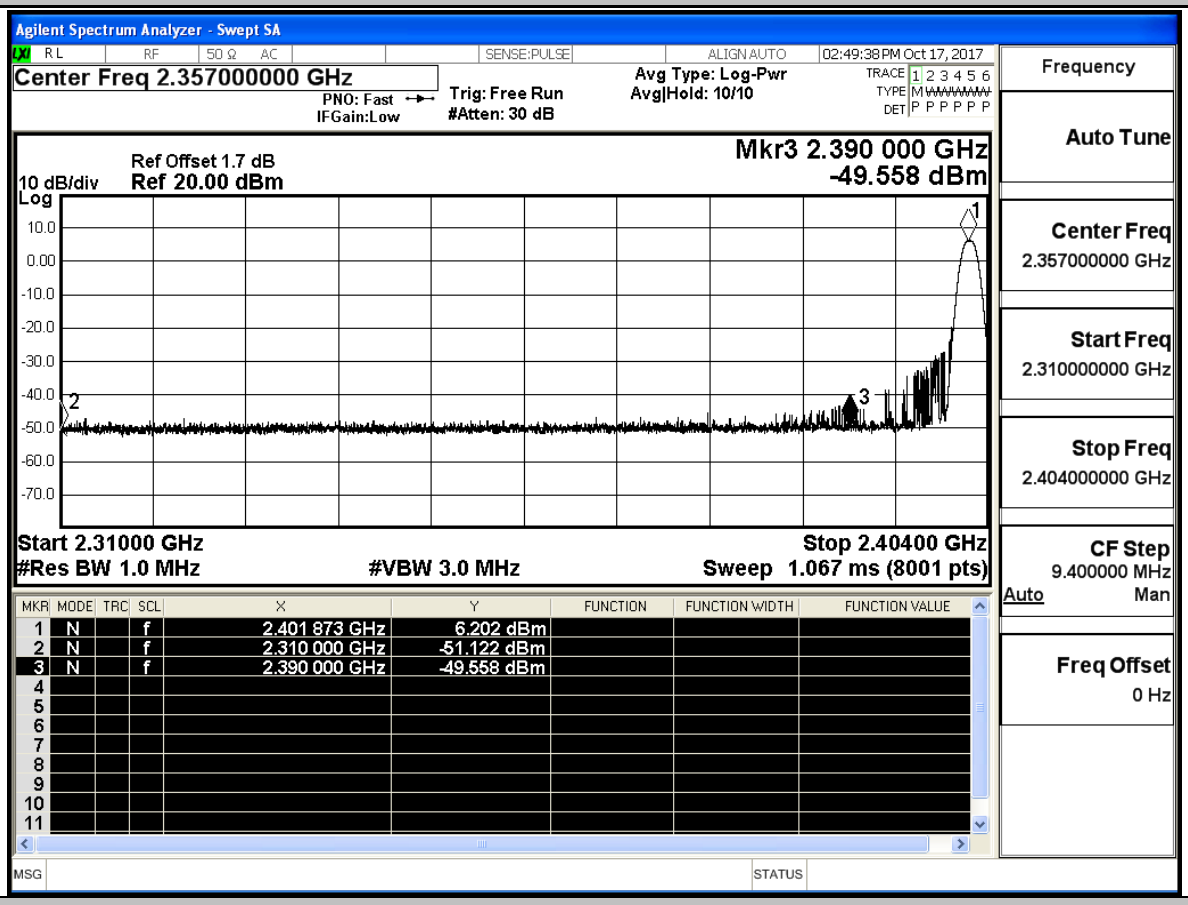




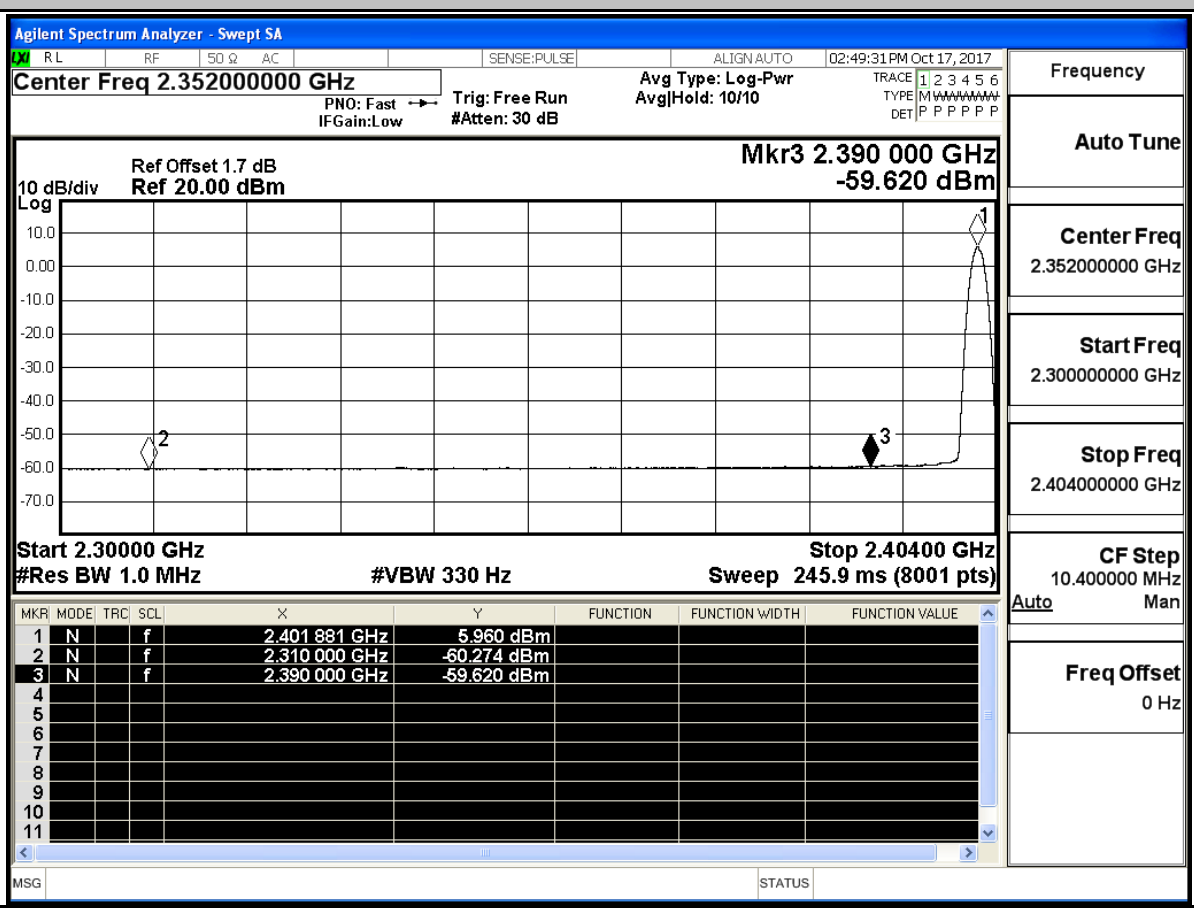
9.Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
DH1	On	2310.0	-51.12	2	0	46.14	PEAK	74	PASS
DH1	On	2390.0	-49.56	2	0	47.70	PEAK	74	PASS
DH1	On	2483.5	-32.14	2	0	65.12	PEAK	74	PASS
DH1	On	2500.0	-50.35	2	0	46.91	PEAK	74	PASS
2DH1	On	2310.0	-51.00	2	0	46.26	PEAK	74	PASS
2DH1	On	2390.0	-48.33	2	0	48.93	PEAK	74	PASS
2DH1	On	2483.5	-31.41	2	0	65.85	PEAK	74	PASS
2DH1	On	2500.0	-47.05	2	0	50.21	PEAK	74	PASS
3DH1	On	2310.0	-51.76	2	0	45.50	PEAK	74	PASS
3DH1	On	2390.0	-49.79	2	0	47.47	PEAK	74	PASS
3DH1	On	2483.5	-47.18	2	0	50.08	PEAK	74	PASS
3DH1	On	2500.0	-48.30	2	0	48.96	PEAK	74	PASS

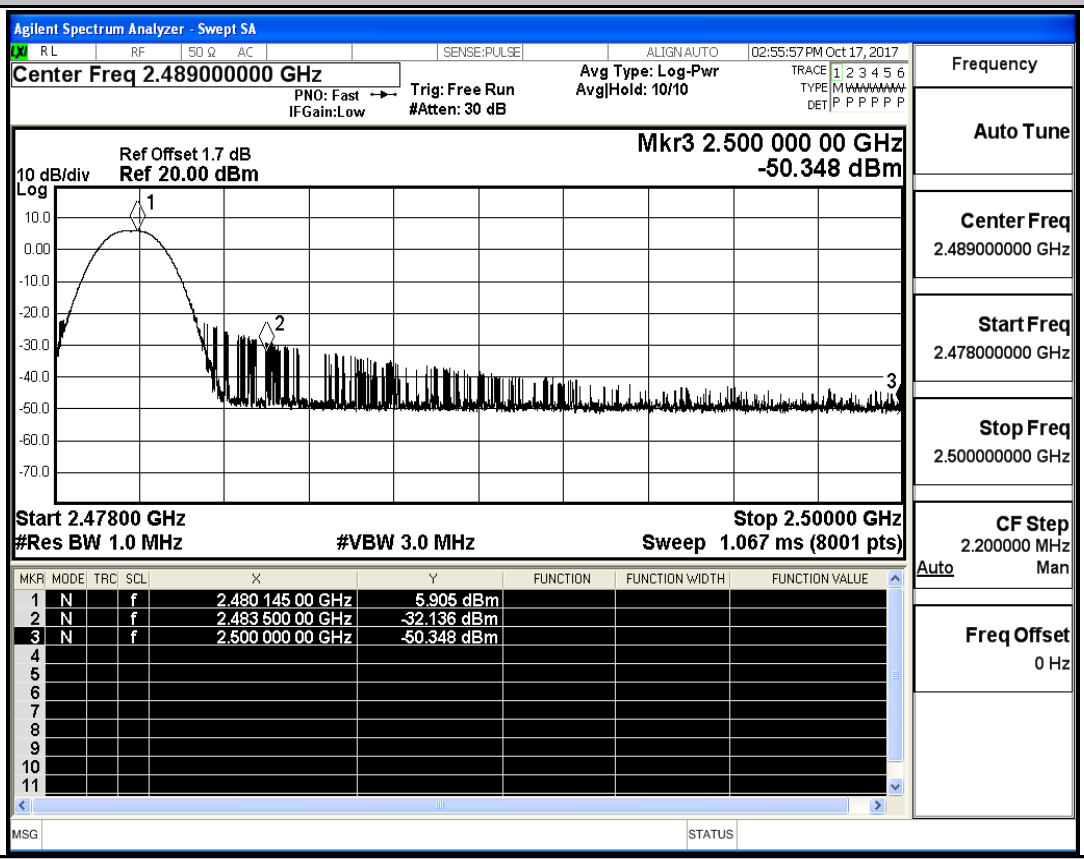
Restrict-band band-edge measurements_Hopping On_PEAK



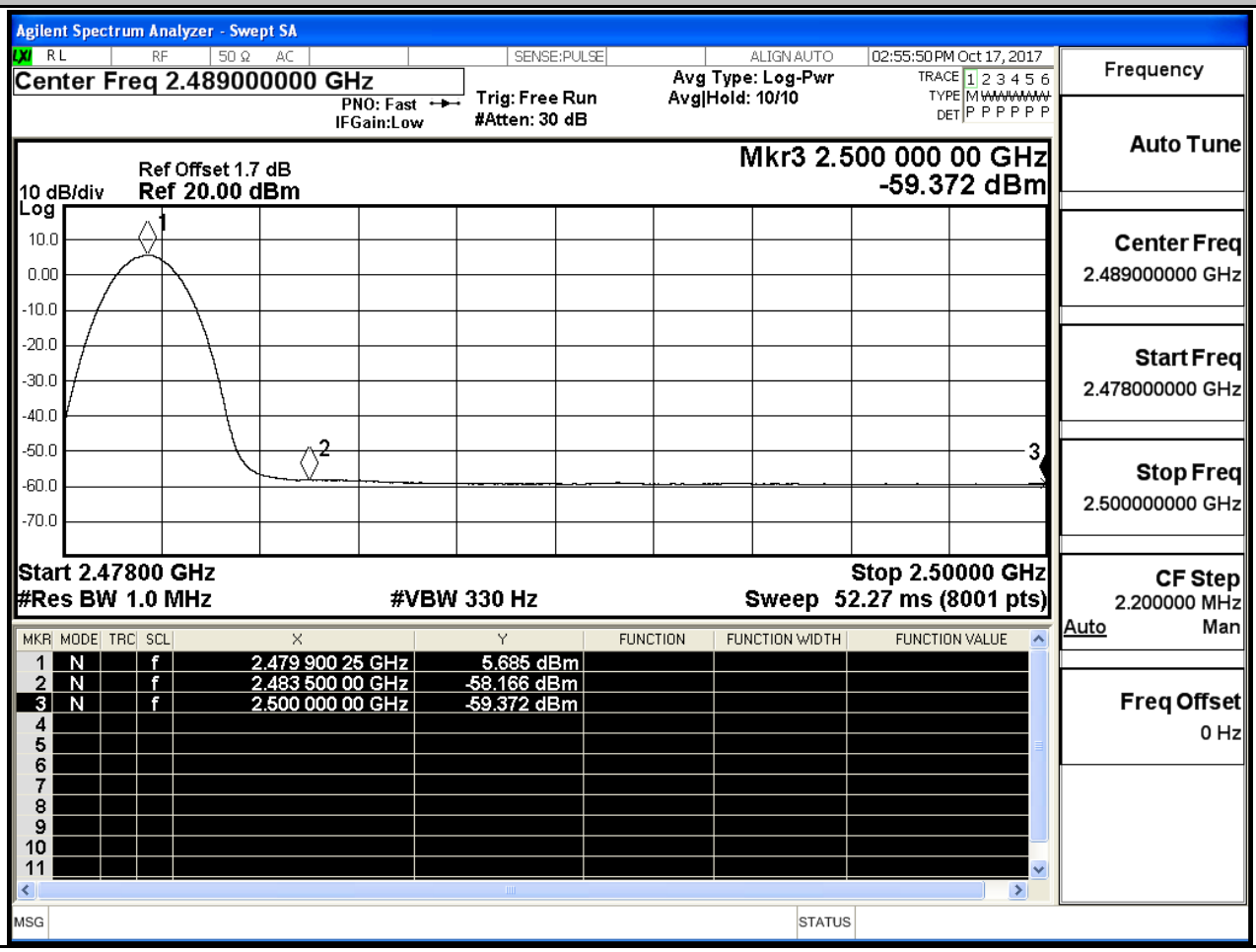
Restrict-band band-edge measurements_Hopping On_PEAK



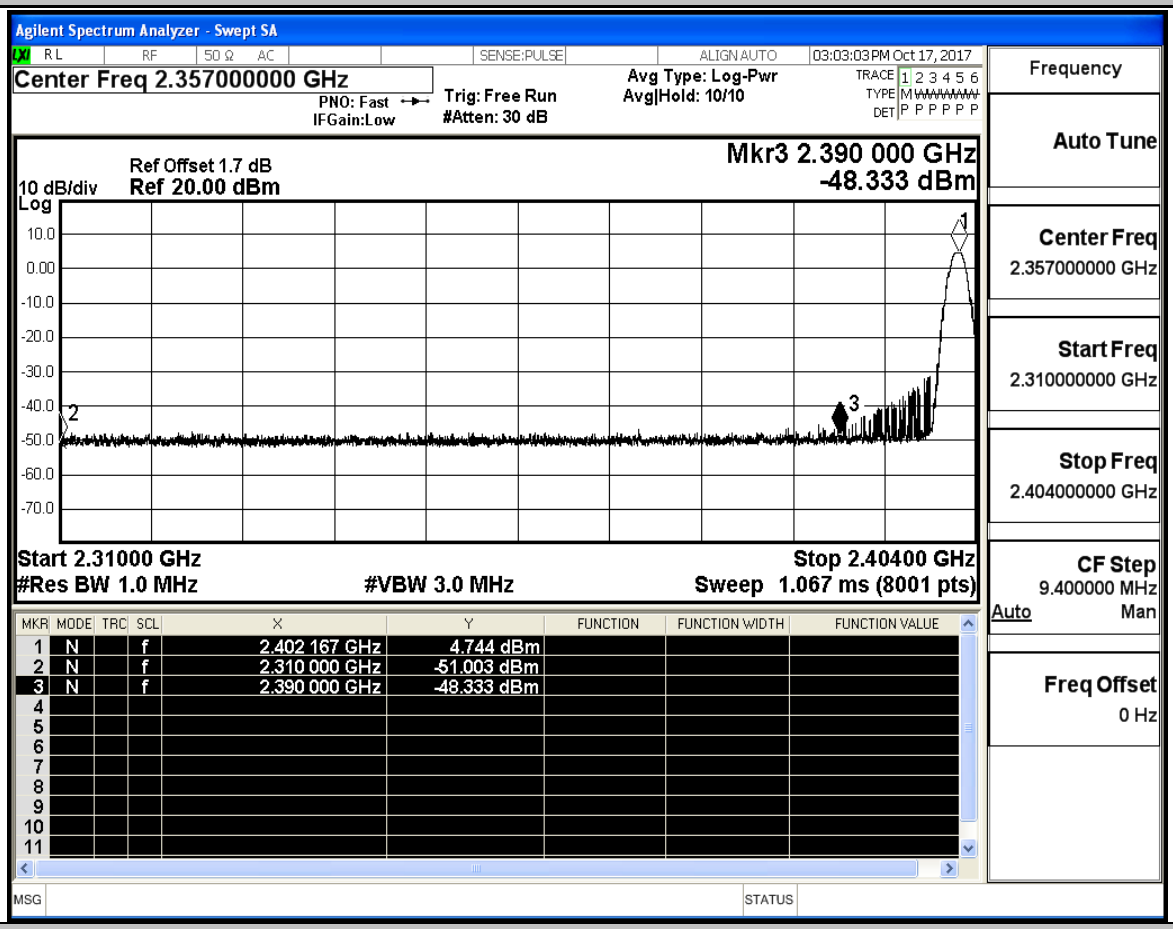
Restrict-band band-edge measurements_Hopping On_PEAK



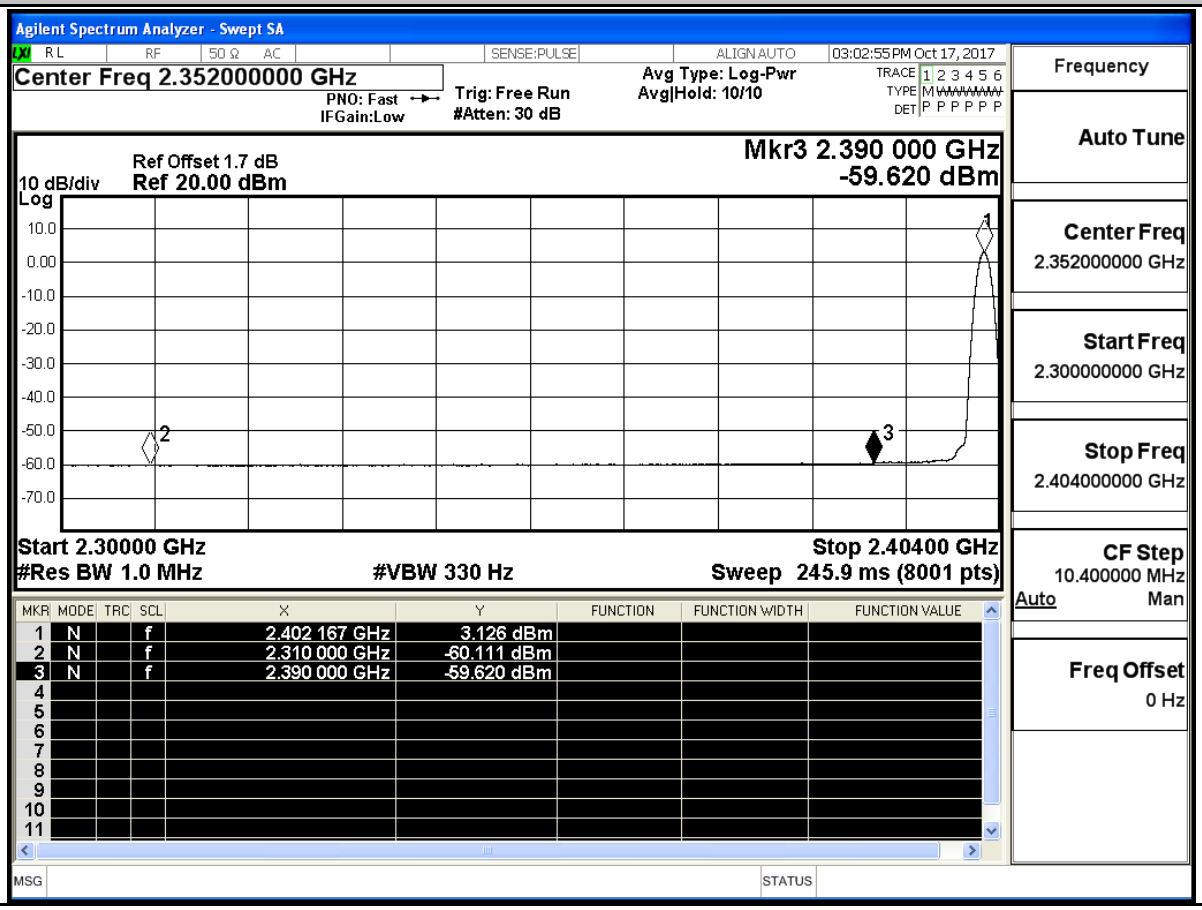
Restrict-band band-edge measurements_Hopping On_PEAK



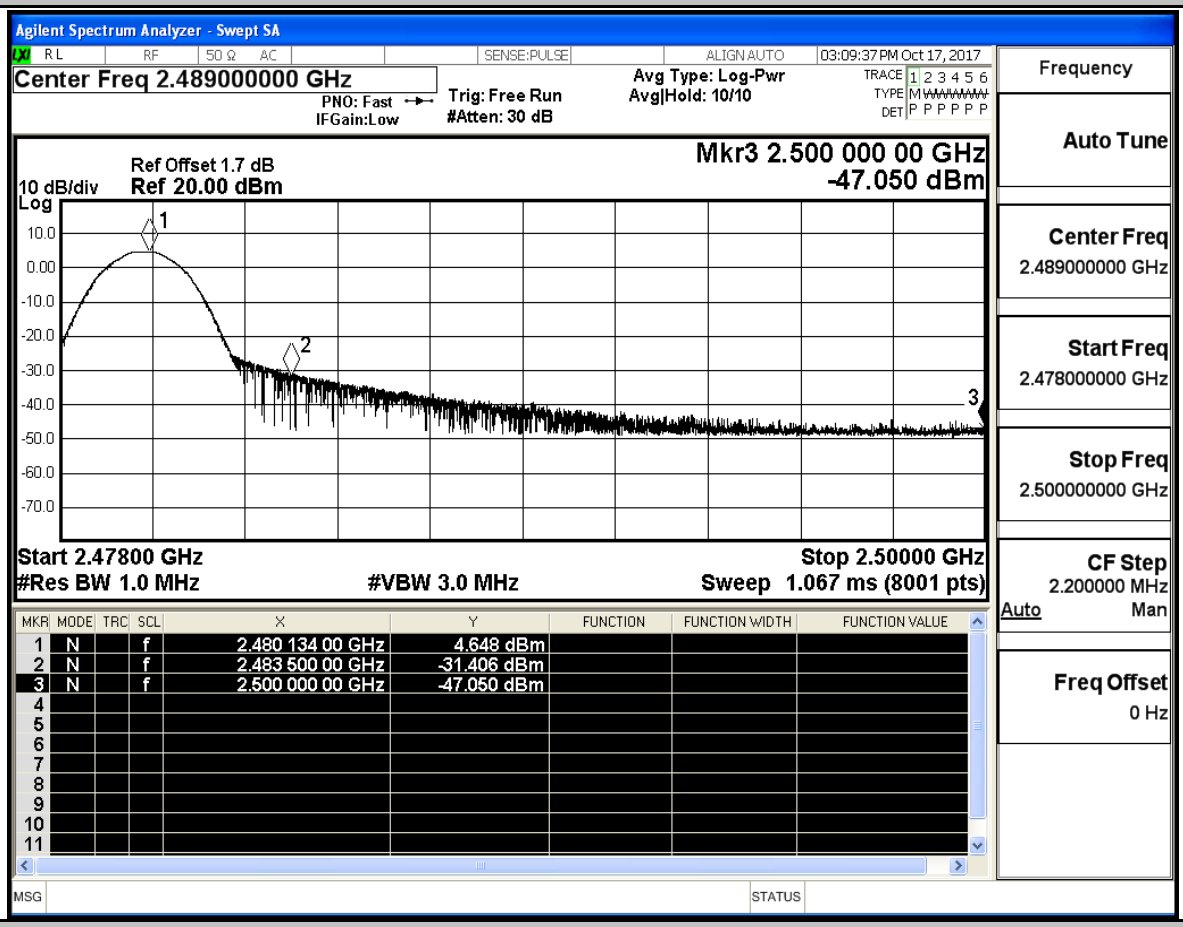
Restrict-band band-edge measurements_Hopping On_PEAK



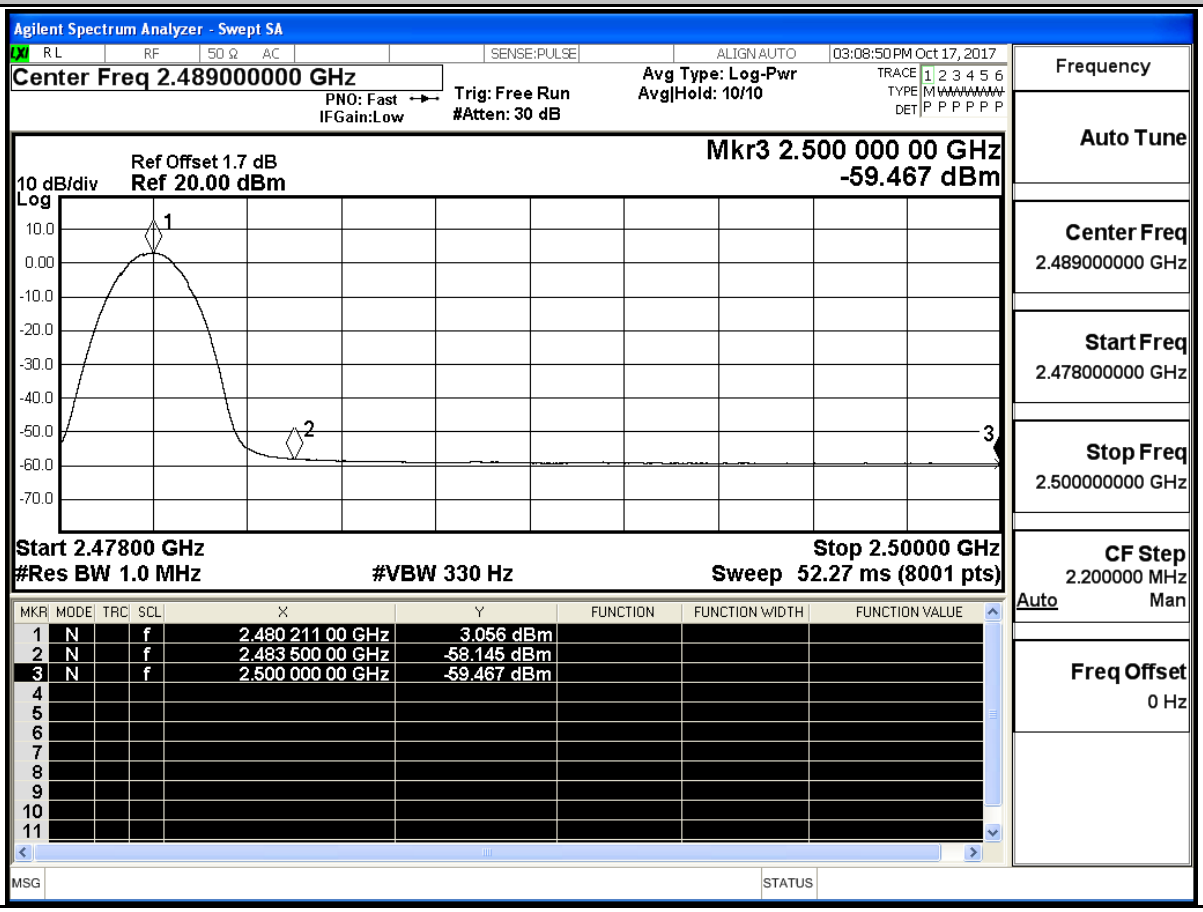
Restrict-band band-edge measurements_Hopping On_PEAK



Restrict-band band-edge measurements_Hopping On_PEAK



Restrict-band band-edge measurements_Hopping On_PEAK



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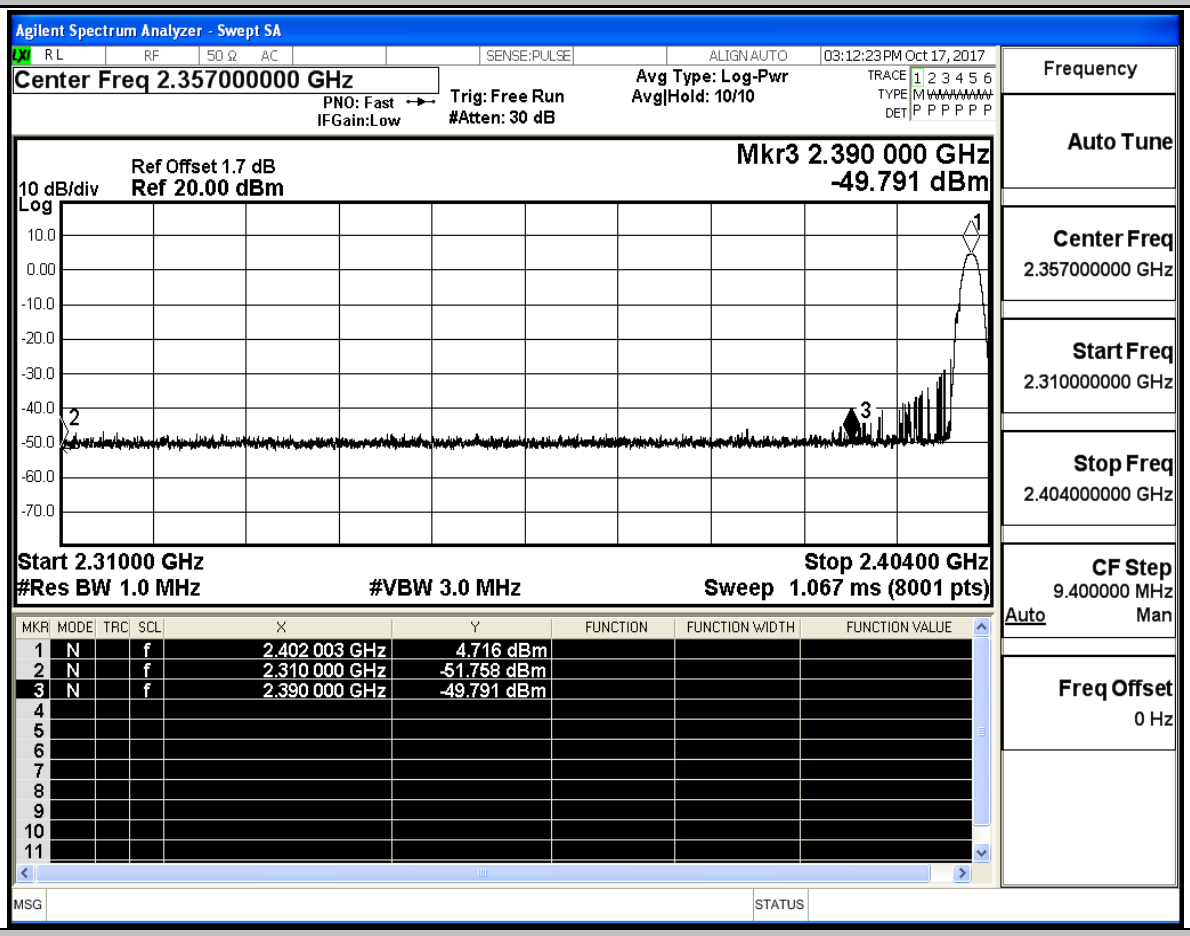
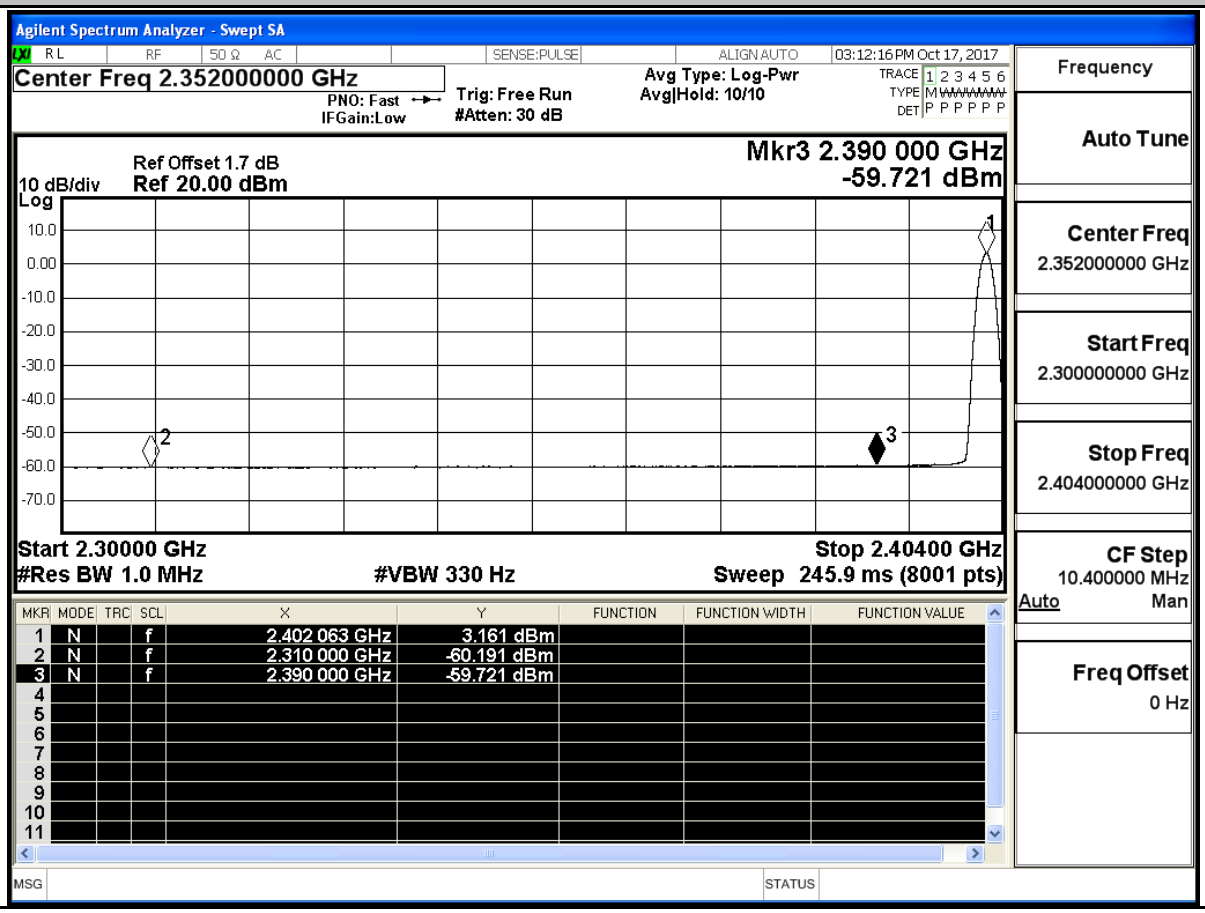
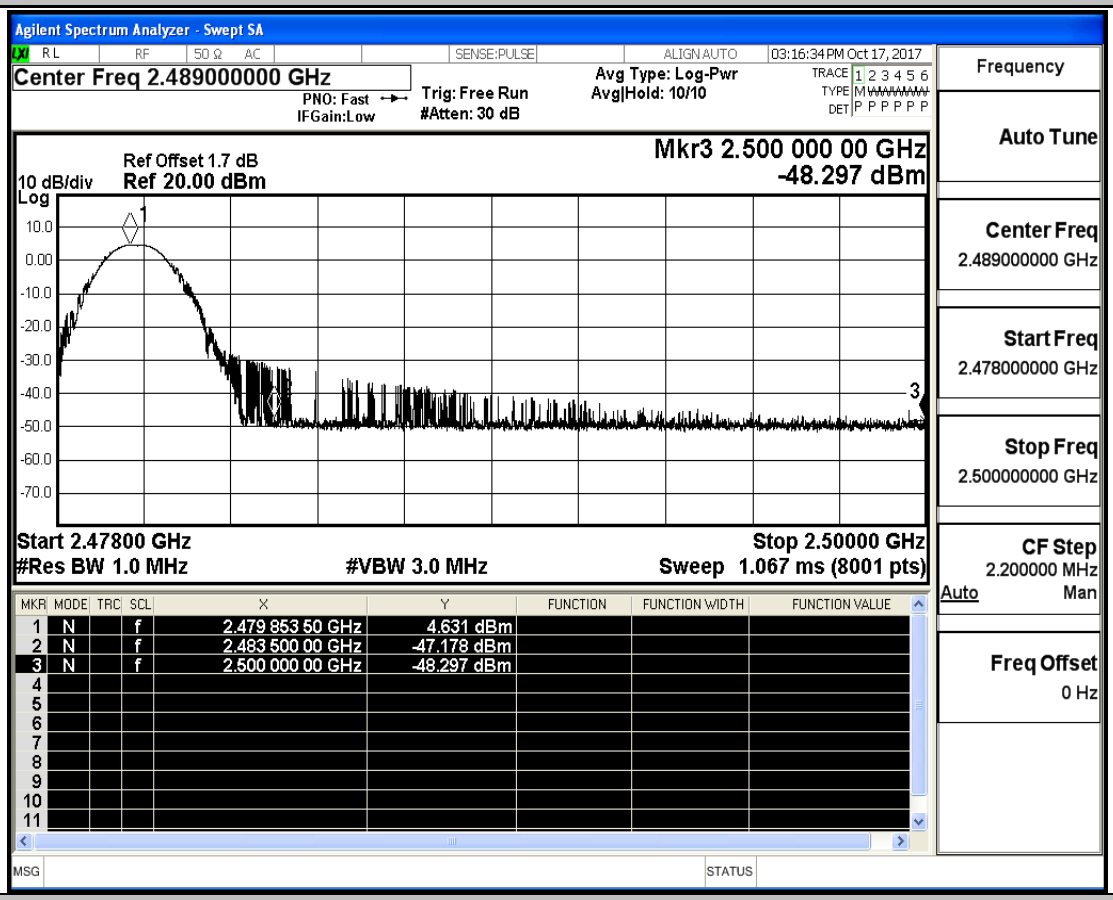


Restrict-band band-edge measurements_Hopping On_PEAK



Restrict-band band-edge measurements_Hopping On_PEAK



Restrict-band band-edge measurements_Hopping On_PEAK