

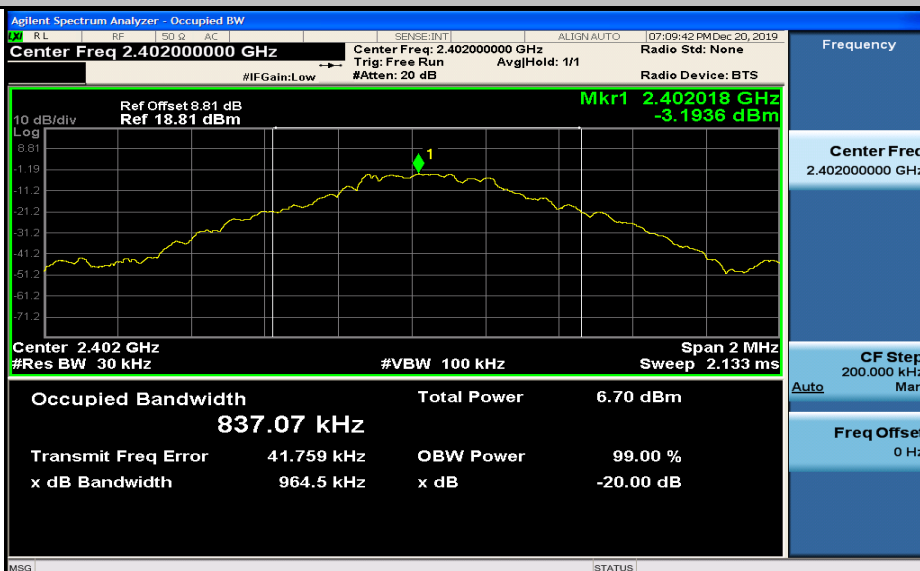


Appendix A for SHEM191201957801

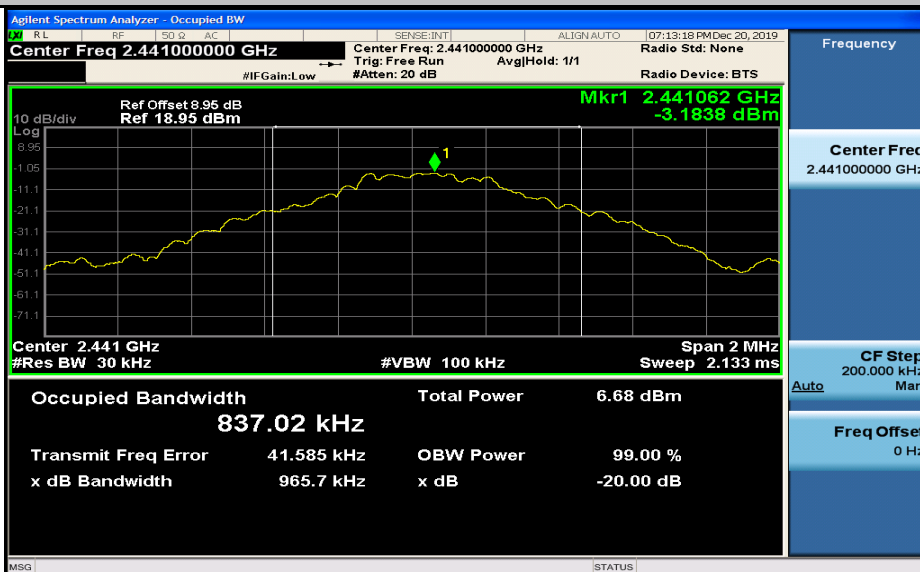
1.20 dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.96	---	PASS
DH5	2441	0.97	---	PASS
DH5	2480	0.96	---	PASS
2DH5	2402	1.28	---	PASS
2DH5	2441	1.28	---	PASS
2DH5	2480	1.28	---	PASS
3DH5	2402	1.31	---	PASS
3DH5	2441	1.30	---	PASS
3DH5	2480	1.30	---	PASS

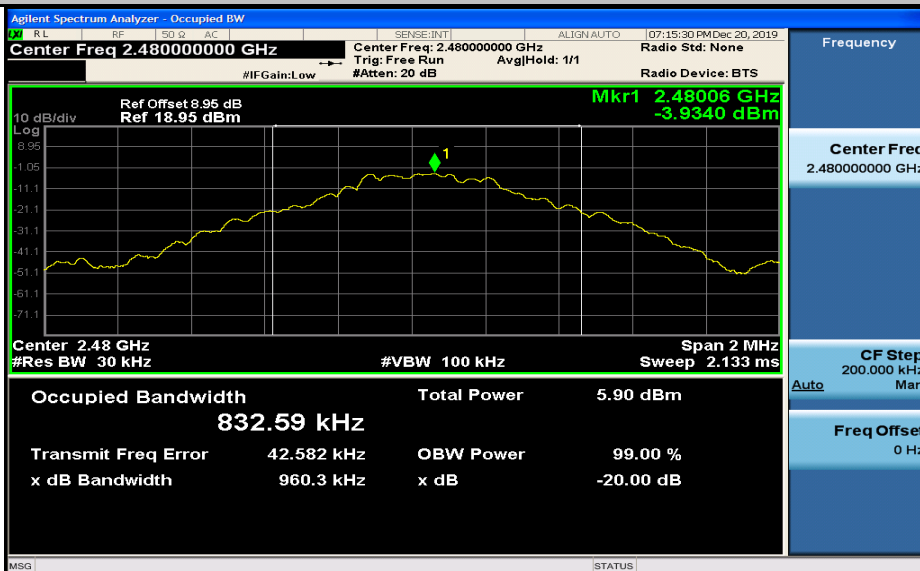
20 dB Bandwidth_DH5_2402



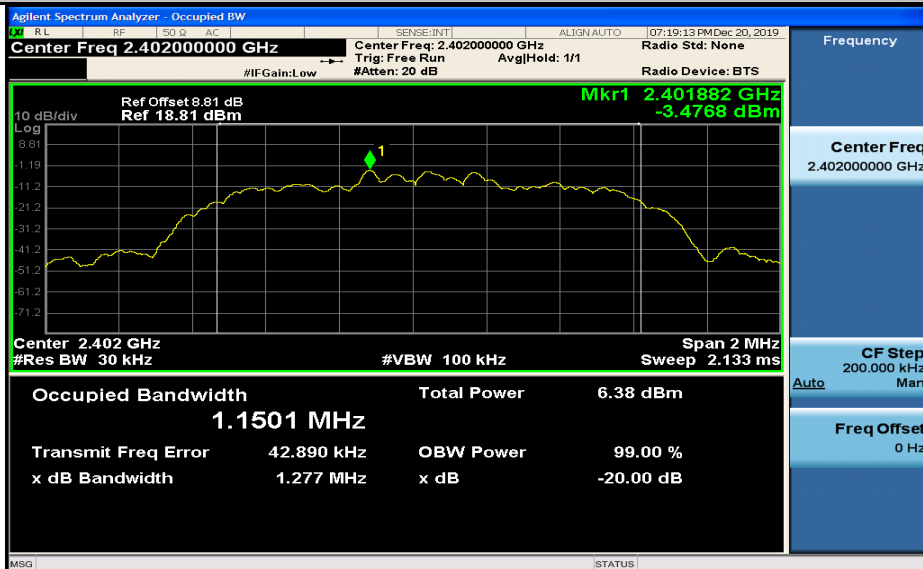
20 dB Bandwidth_DH5_2441



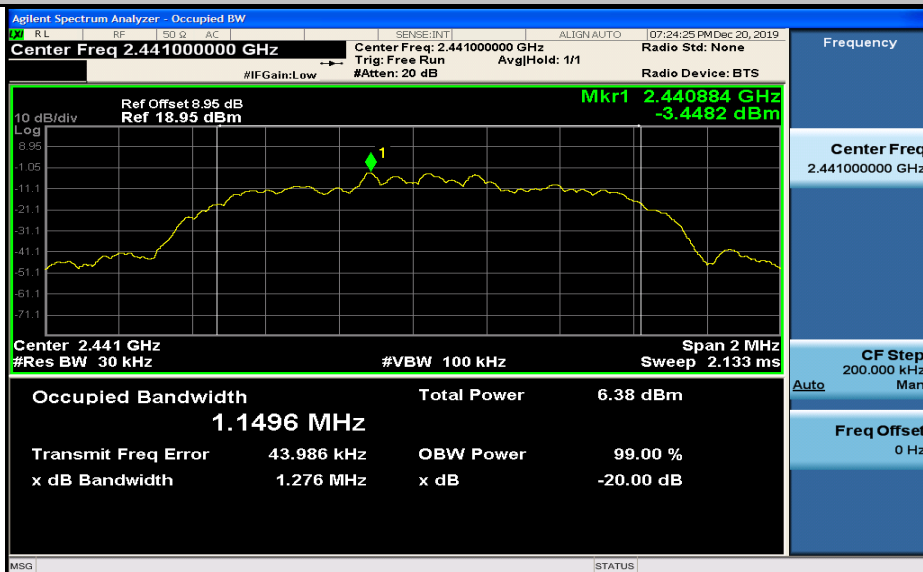
20 dB Bandwidth_DH5_2480



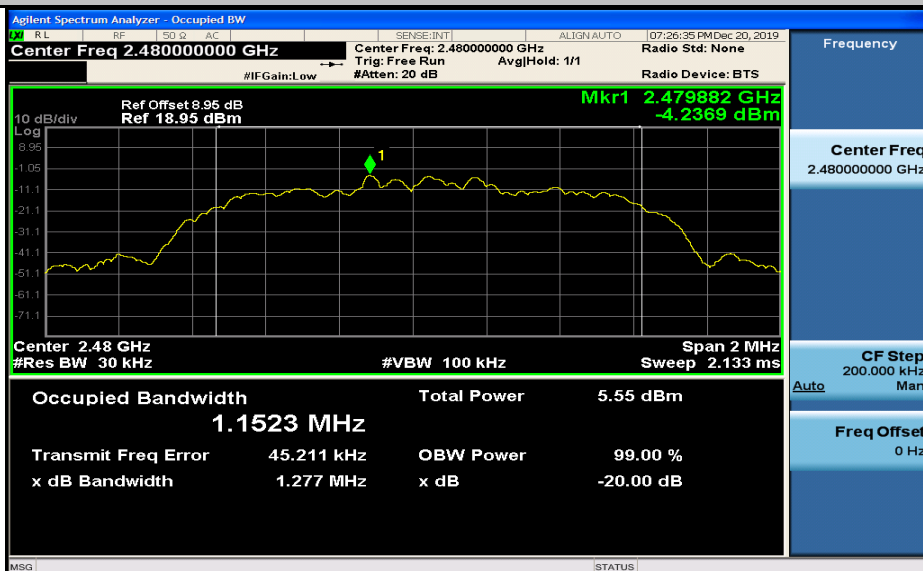
20 dB Bandwidth_2DH5_2402



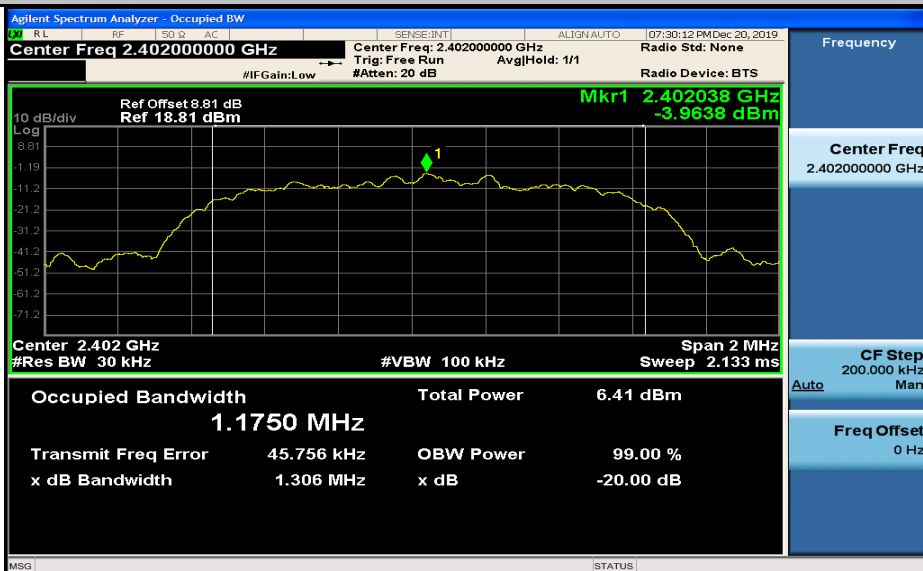
20 dB Bandwidth_2DH5_2441



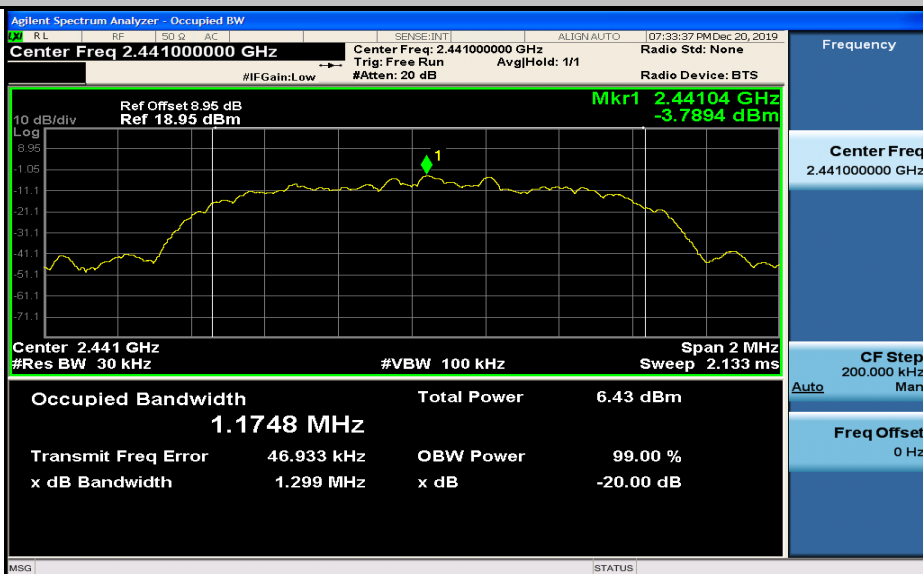
20 dB Bandwidth_2DH5_2480



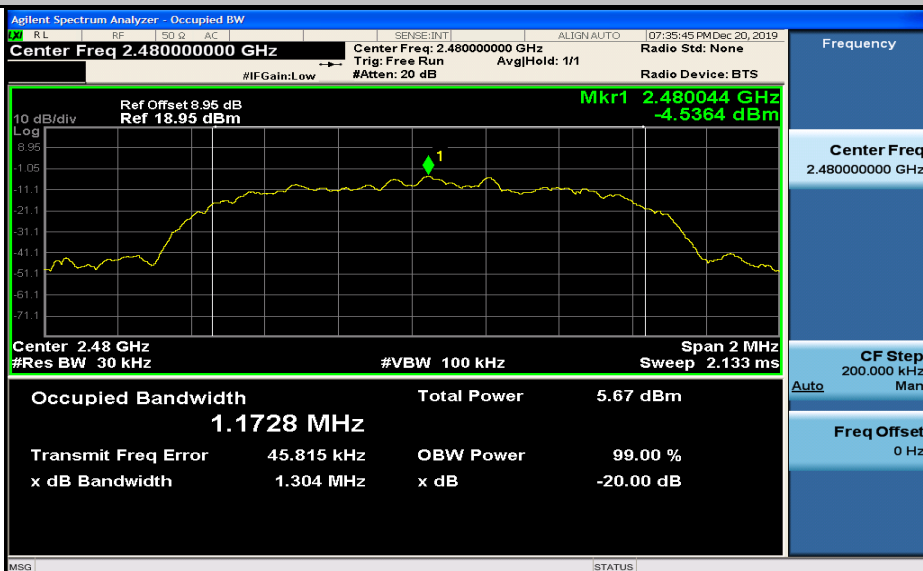
20 dB Bandwidth_3DH5_2402



20 dB Bandwidth_3DH5_2441



20 dB Bandwidth_3DH5_2480

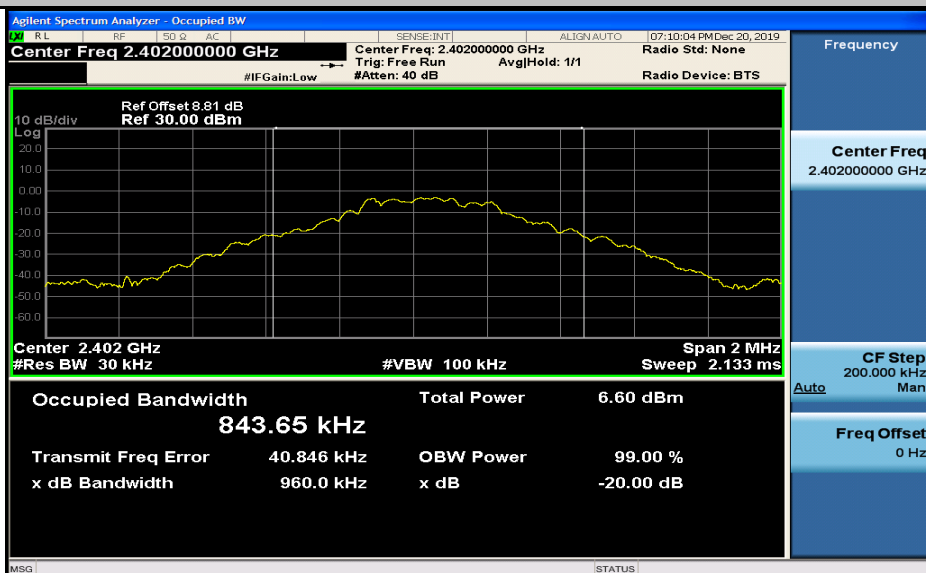




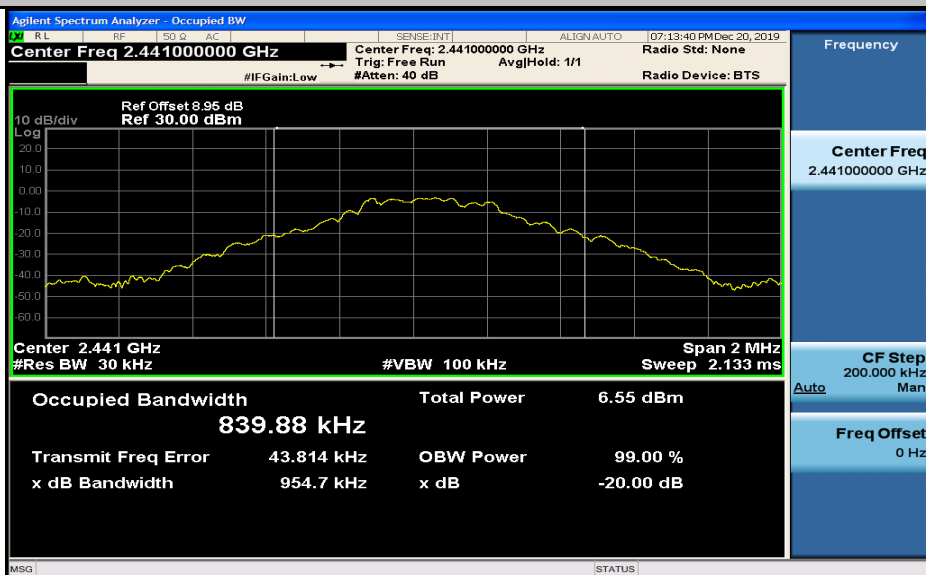
2.Occupied Bandwidth

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
DH5	2402	0.84	---	PASS
DH5	2441	0.84	---	PASS
DH5	2480	0.84	---	PASS
2DH5	2402	1.15	---	PASS
2DH5	2441	1.15	---	PASS
2DH5	2480	1.15	---	PASS
3DH5	2402	1.18	---	PASS
3DH5	2441	1.18	---	PASS
3DH5	2480	1.18	---	PASS

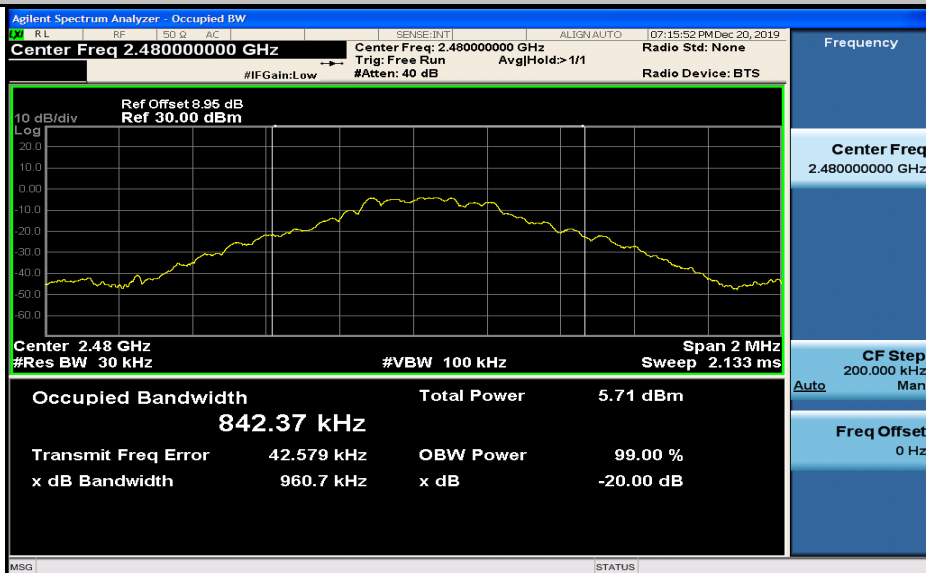
Occupied Bandwidth_DH5_2402



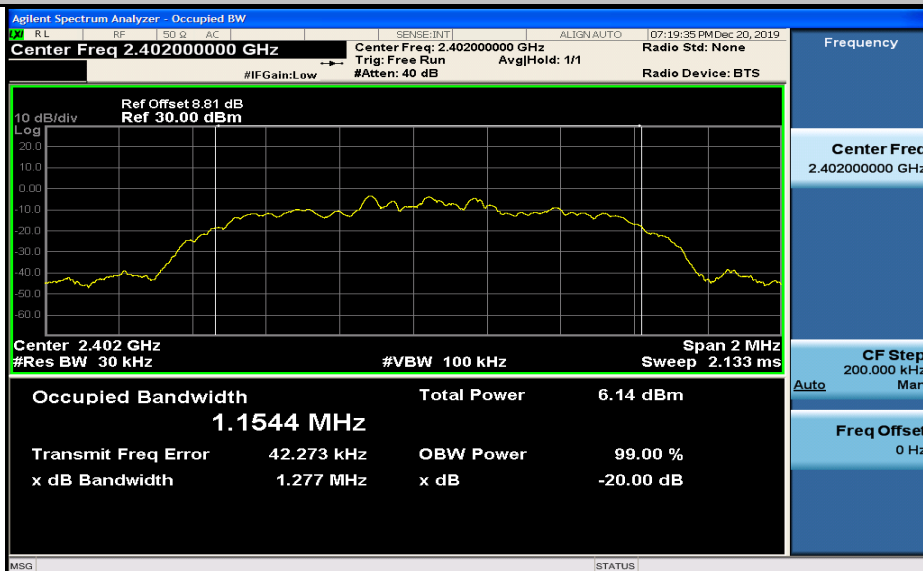
Occupied Bandwidth_DH5_2441



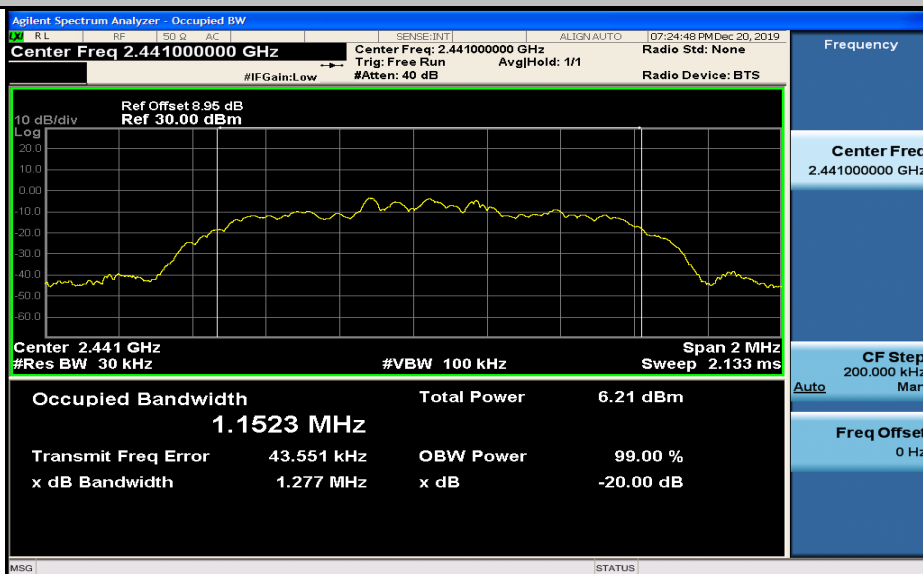
Occupied Bandwidth_DH5_2480



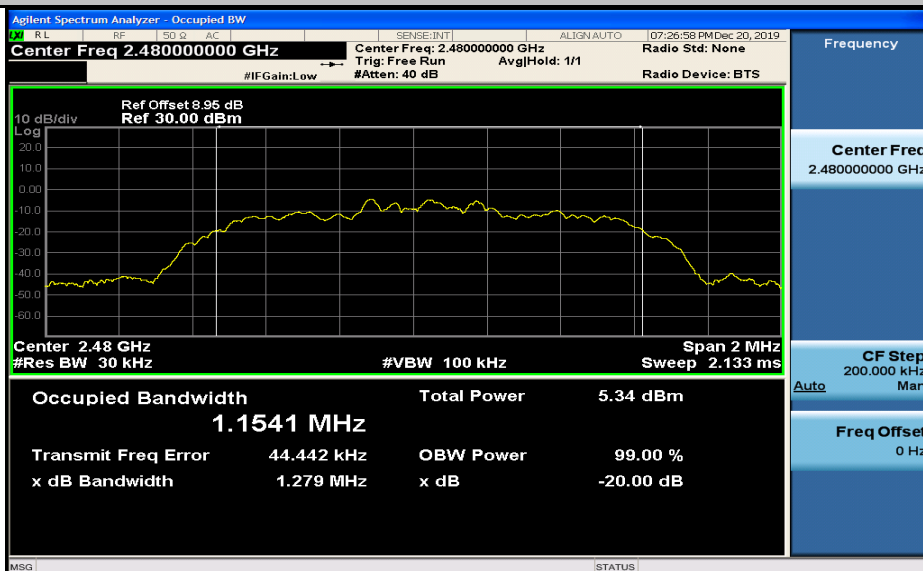
Occupied Bandwidth_2DH5_2402



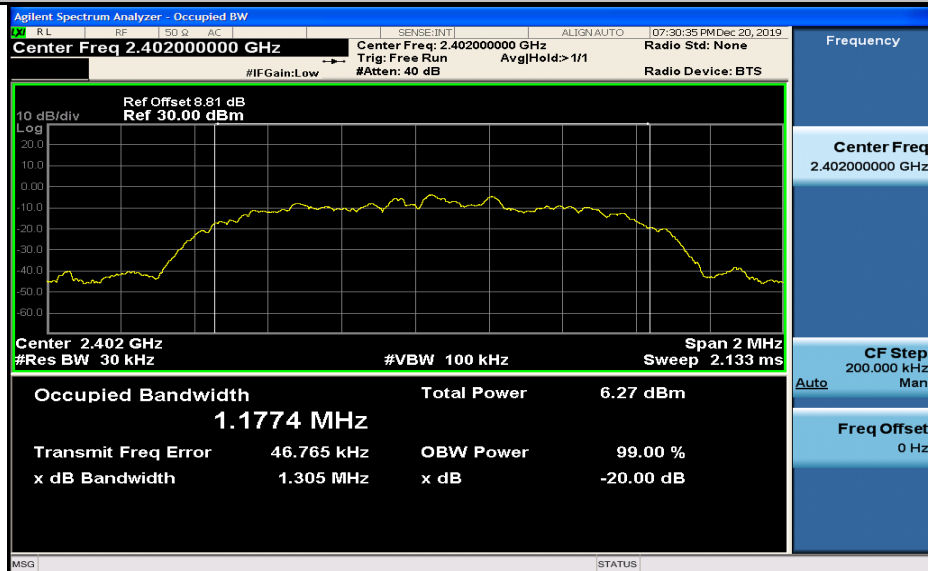
Occupied Bandwidth_2DH5_2441



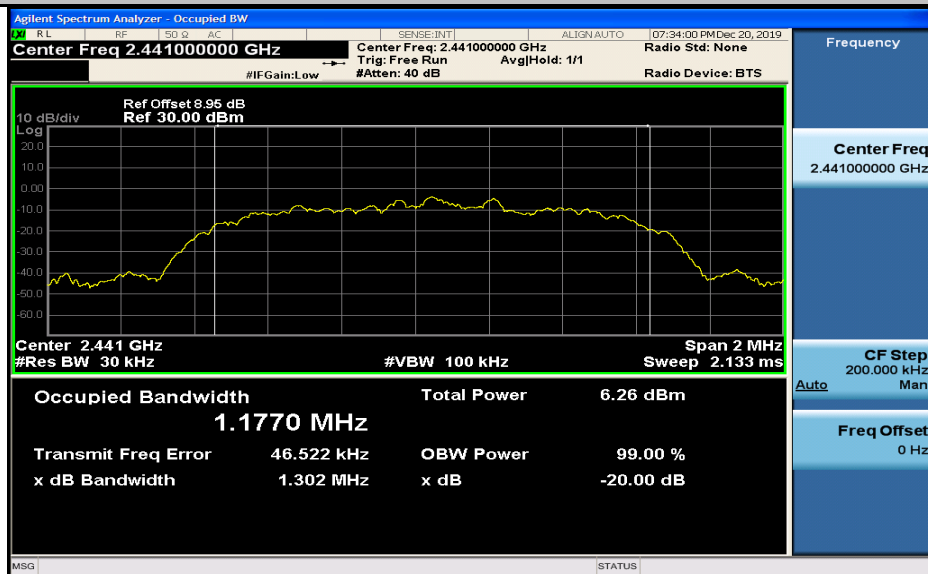
Occupied Bandwidth_2DH5_2480



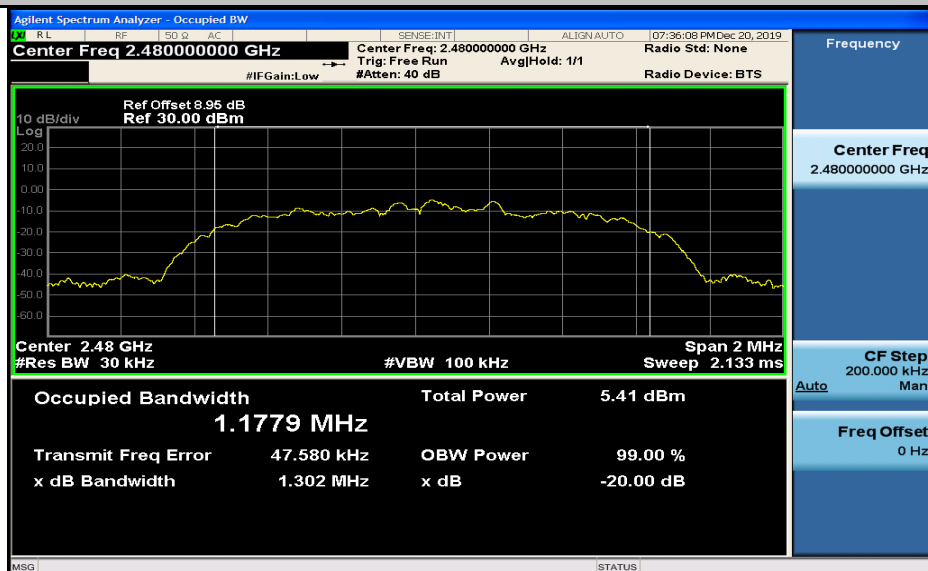
Occupied Bandwidth_3DH5_2402



Occupied Bandwidth_3DH5_2441



Occupied Bandwidth_3DH5_2480

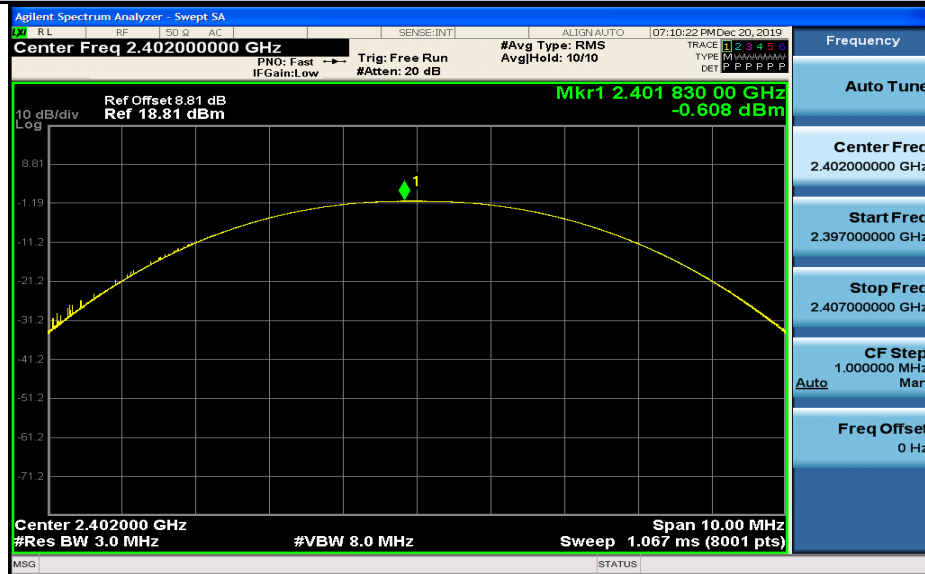




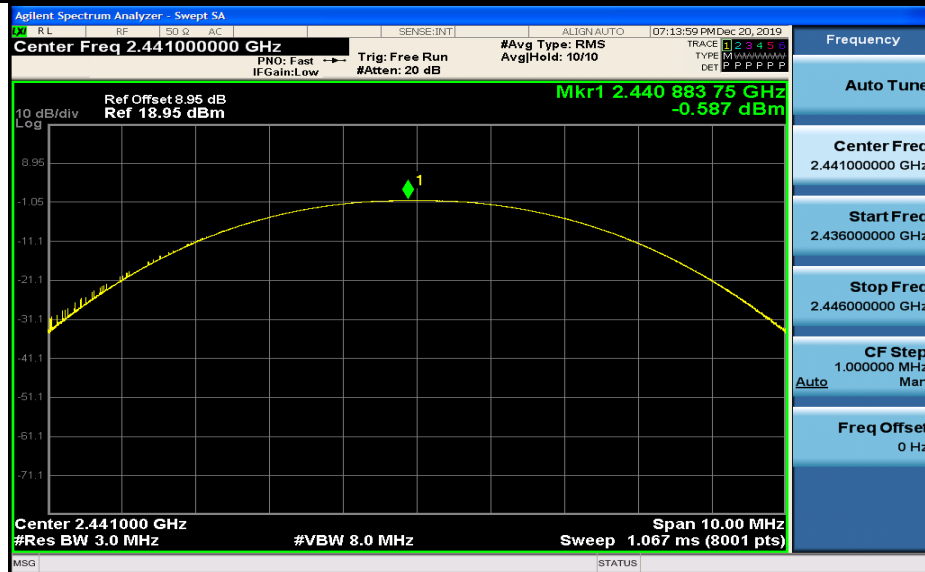
3.Conducted Peak Output Power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-0.61	21	PASS
DH5	2441	-0.59	21	PASS
DH5	2480	-1.39	21	PASS
2DH5	2402	0.19	21	PASS
2DH5	2441	0.24	21	PASS
2DH5	2480	-0.59	21	PASS
3DH5	2402	0.84	21	PASS
3DH5	2441	0.89	21	PASS
3DH5	2480	0.04	21	PASS

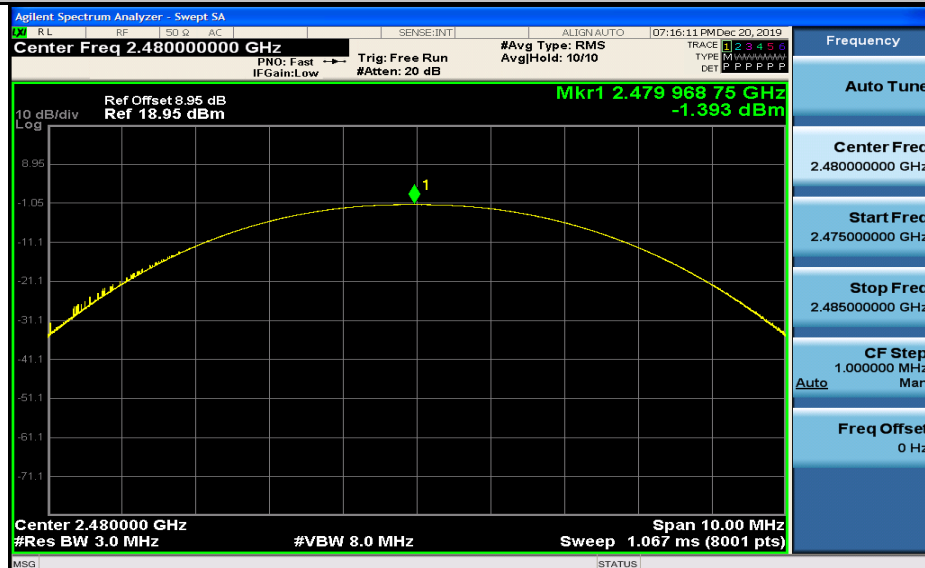
Conducted Peak Output Power_DH5_2402



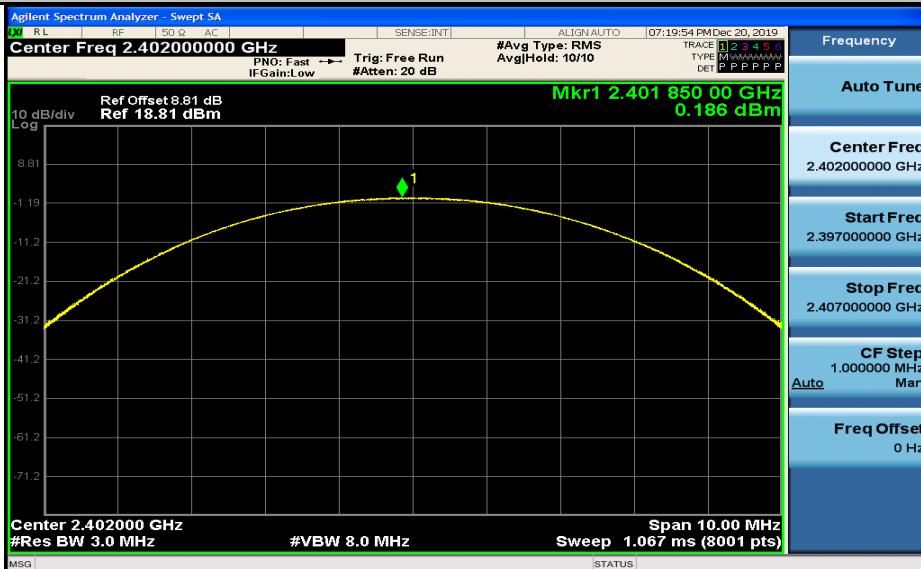
Conducted Peak Output Power_DH5_2441



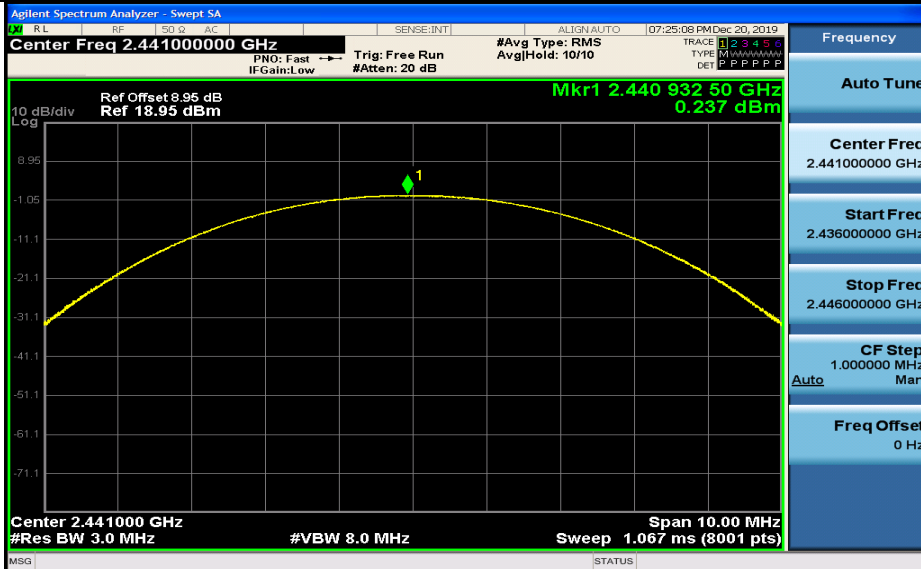
Conducted Peak Output Power_DH5_2480



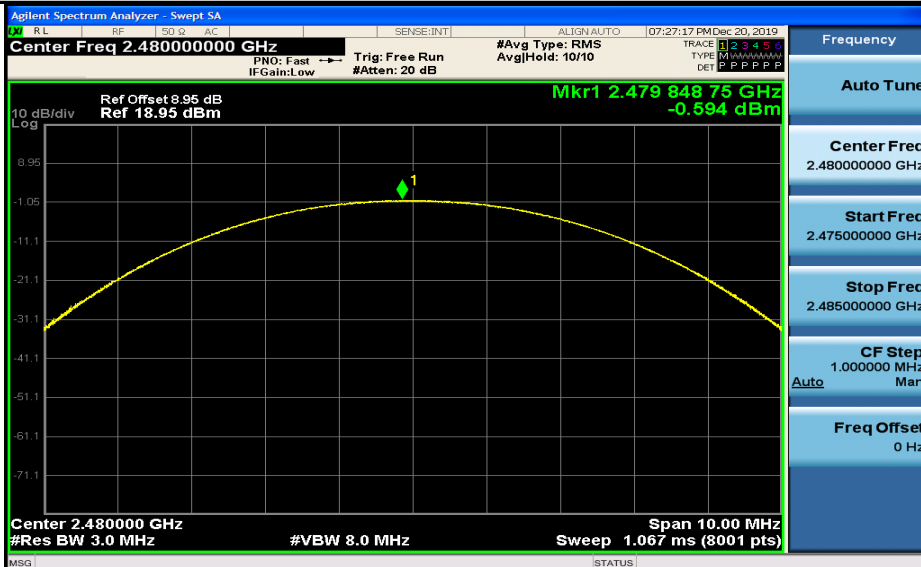
Conducted Peak Output Power_2DH5_2402



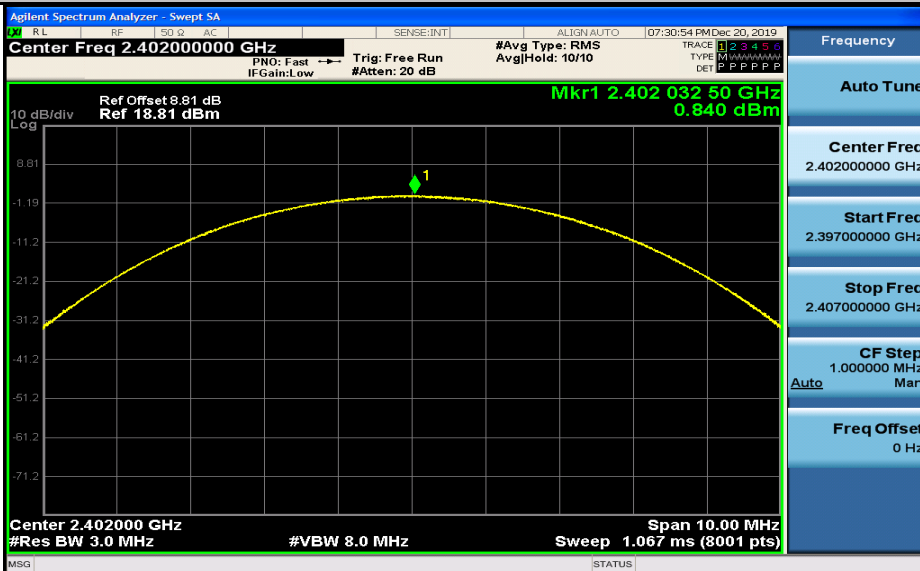
Conducted Peak Output Power_2DH5_2441



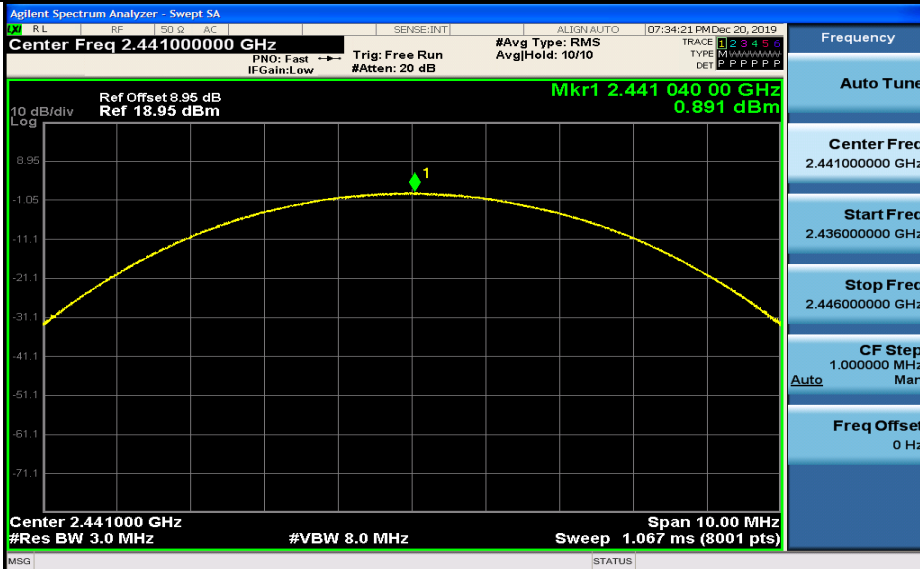
Conducted Peak Output Power_2DH5_2480



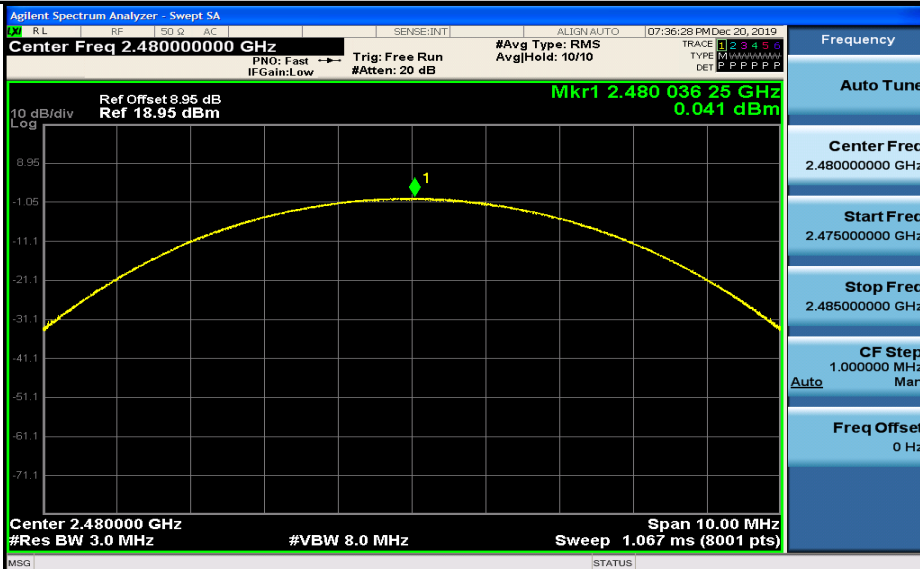
Conducted Peak Output Power_3DH5_2402



Conducted Peak Output Power_3DH5_2441



Conducted Peak Output Power_3DH5_2480





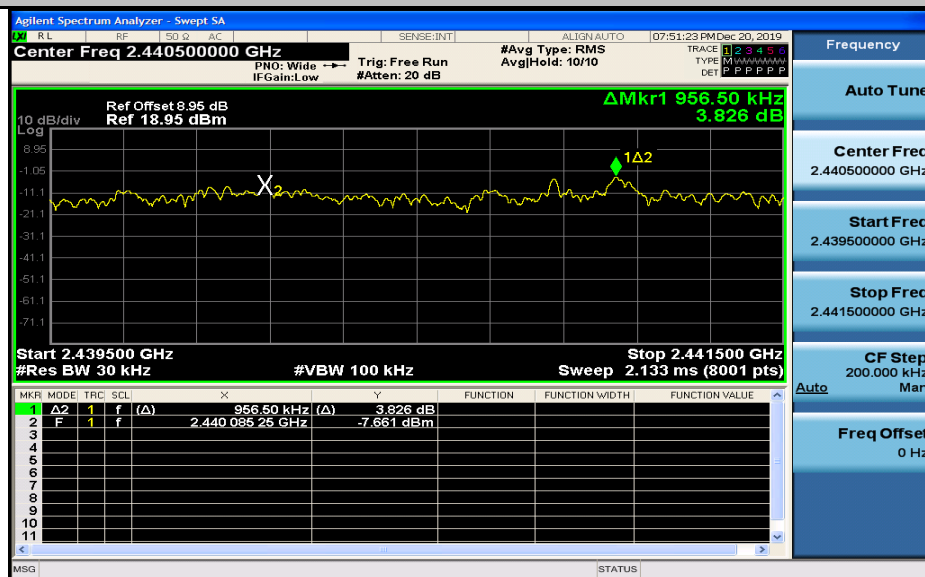
4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	2441	0.99	0.644	PASS
2DH5	2441	0.96	0.851	PASS
3DH5	2441	1.16	0.866	PASS

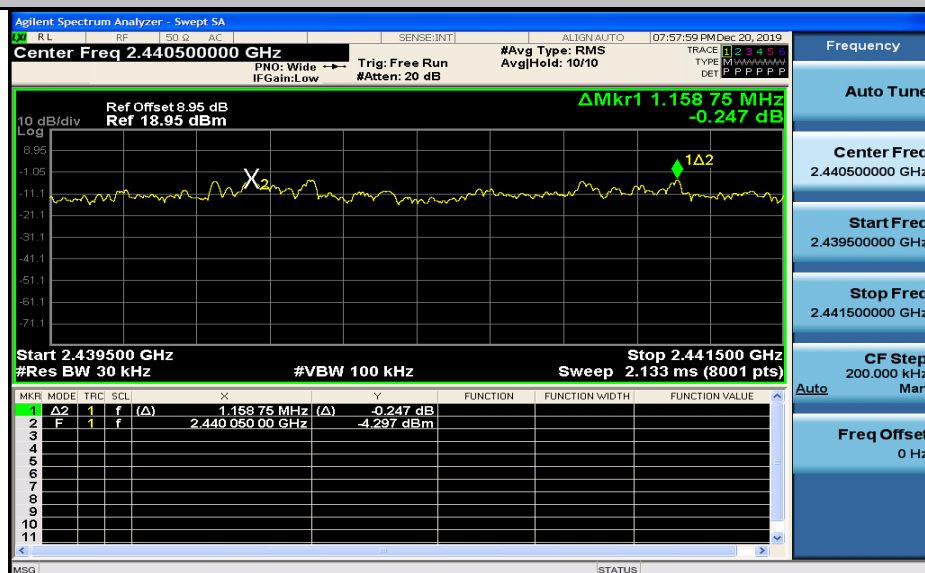
Carrier Frequency Separation_DH5_2441



Carrier Frequency Separation_2DH5_2441



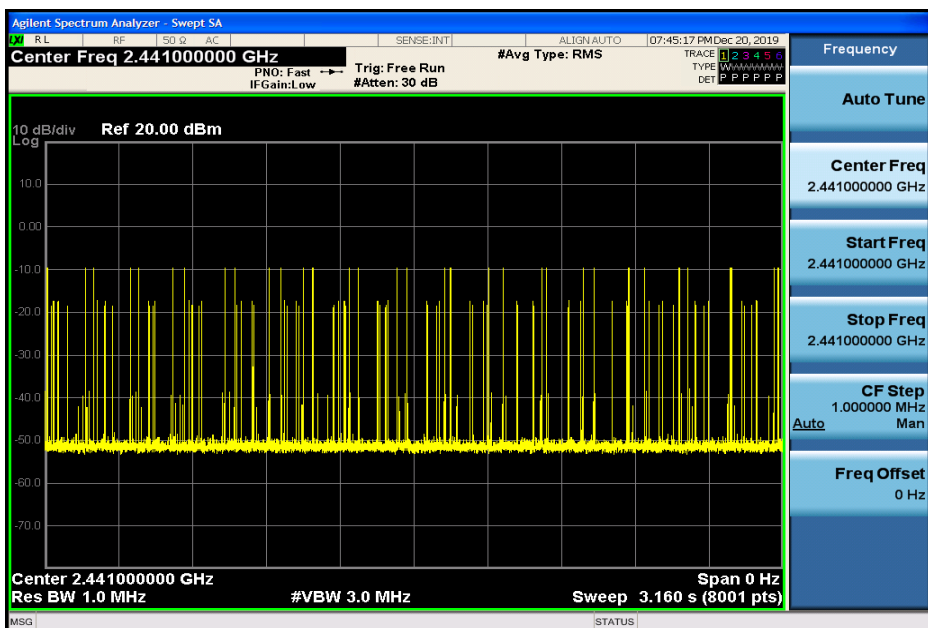
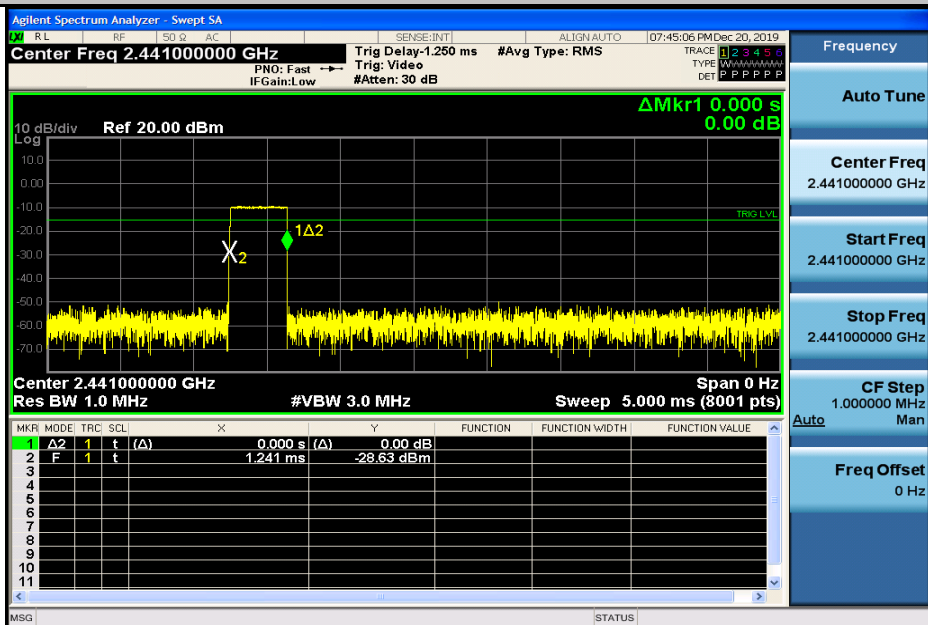
Carrier Frequency Separation_3DH5_2441



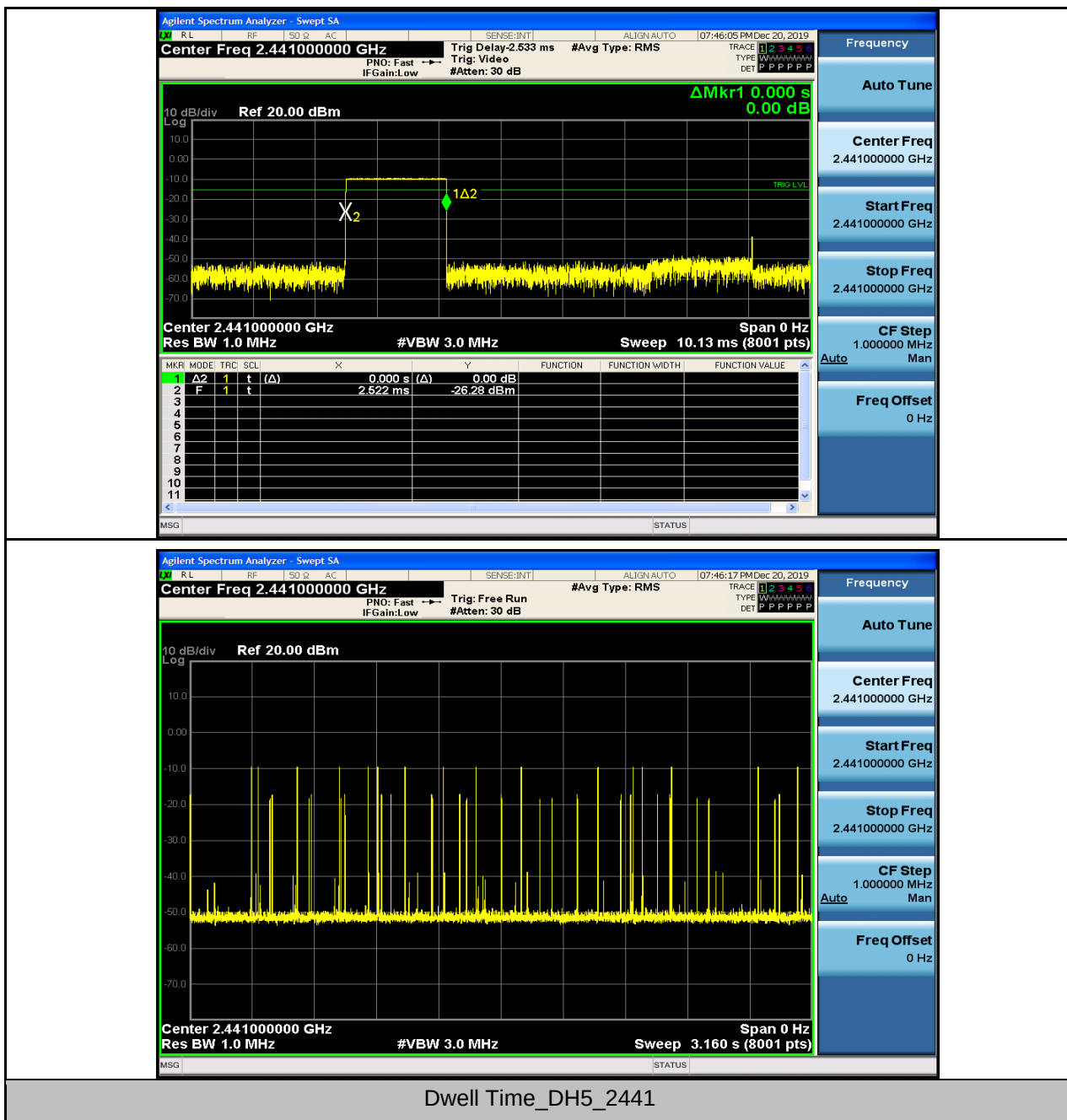
5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict
DH1	2441	0.39	320	0.12	0.4	PASS
DH3	2441	1.65	160	0.26	0.4	PASS
DH5	2441	2.90	110	0.32	0.4	PASS
2DH1	2441	0.40	300	0.12	0.4	PASS
2DH3	2441	1.66	160	0.27	0.4	PASS
2DH5	2441	2.90	70	0.20	0.4	PASS
3DH1	2441	0.41	310	0.13	0.4	PASS
3DH3	2441	1.65	160	0.26	0.4	PASS
3DH5	2441	2.90	130	0.38	0.4	PASS

Dwell Time_DH1_2441



Dwell Time_DH3_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run #Avg Type: RMS

IF Gain: Low #Atten: 30 dB

PN0: Fast

07:46:17 PM Dec 20, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P

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

10 dB/div Ref 20.00 dBm

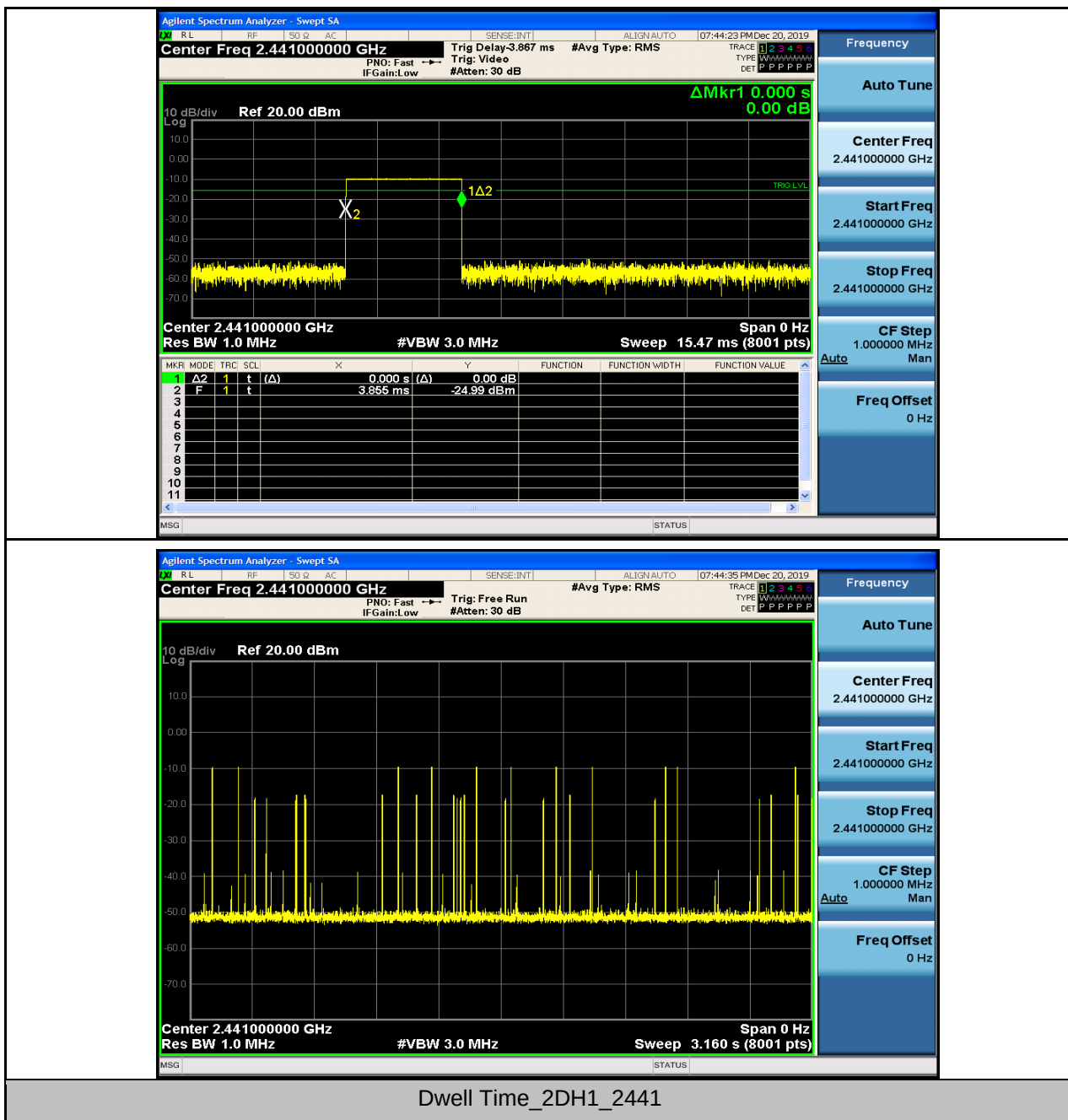
Log

Center 2.441000000 GHz Span 0 Hz

Res BW 1.0 MHz #VBW 3.0 MHz Sweep 3.160 s (8001 pts)

MSG STATUS

Dwell Time_DH5_2441



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

#Avg Type: RMS

Trig: Video

PN0: Fast

IFGain: Low

#Atten: 30 dB

07:44:35 PM Dec 20, 2019

TRACE 1 2 3 4 5 6

TYPE 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
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

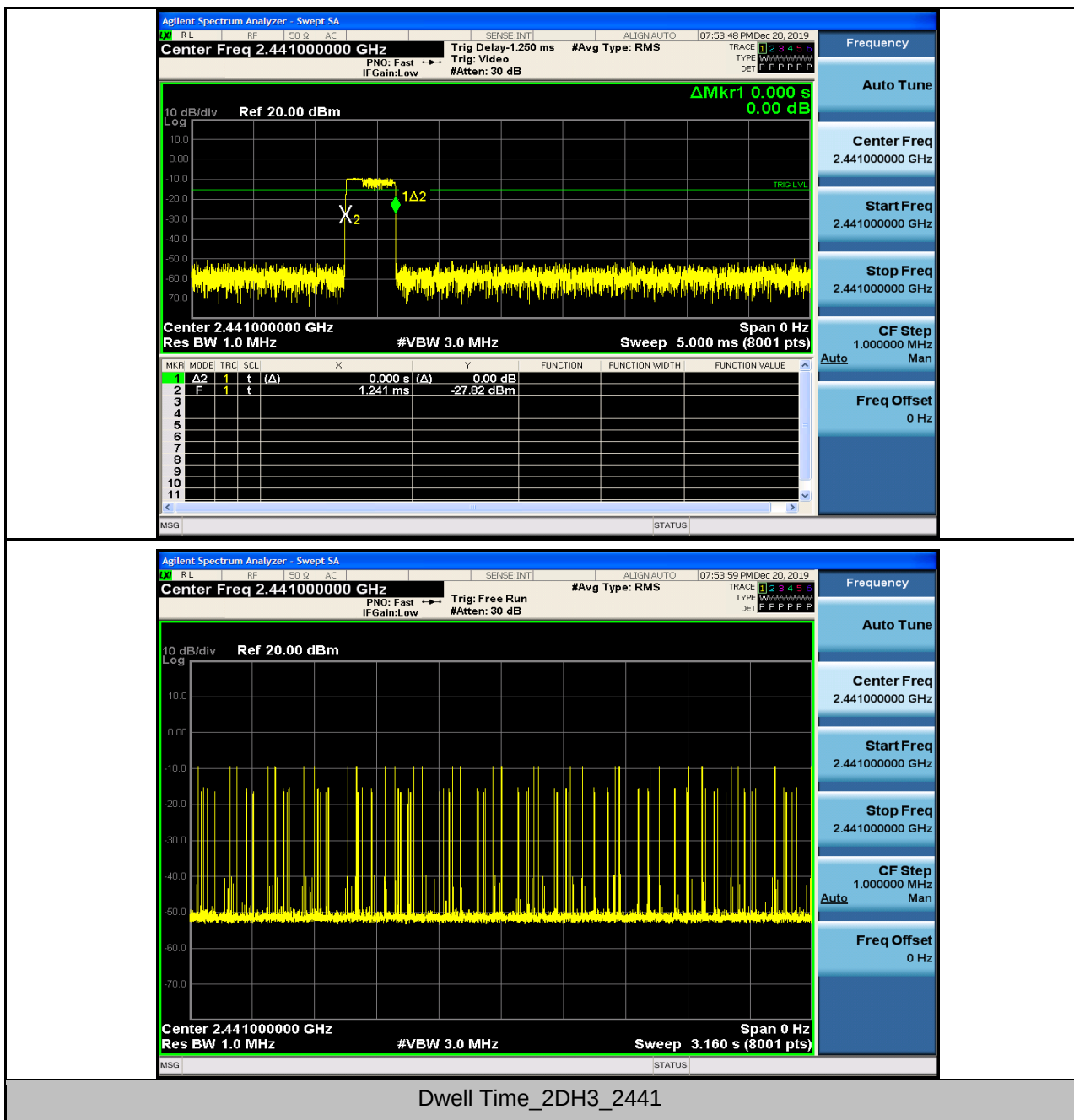
Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 3.160 s (8001 pts)

MSG

STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

PN0: Fast IFGain: Low #Atten: 30 dB

07:53:59 PM Dec 20, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P

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

10 dB/div Ref 20.00 dBm

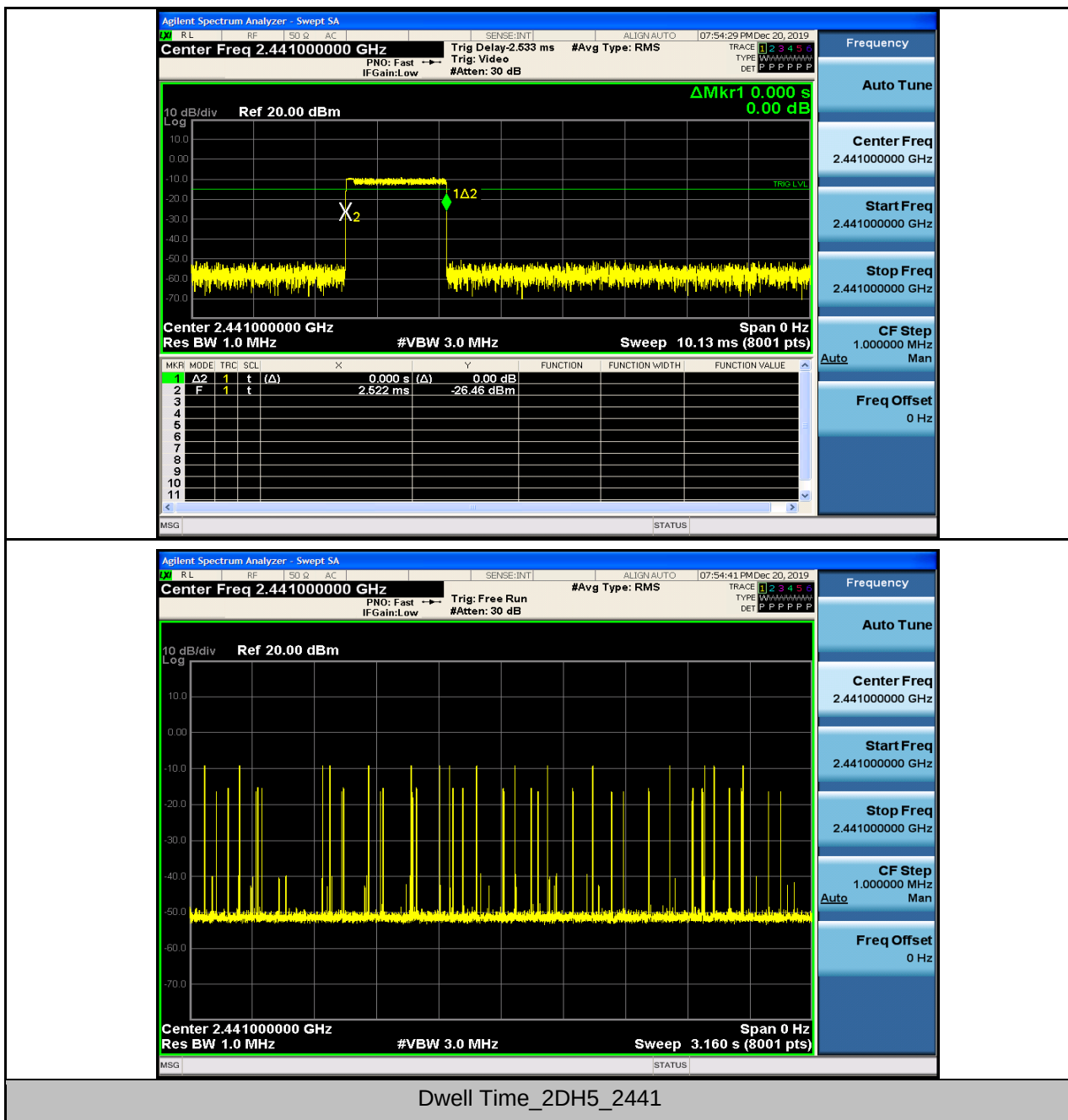
Log

Center 2.441000000 GHz

Res BW 1.0 MHz #VBW 3.0 MHz

Sweep 3.160 s (8001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

#Avg Type: RMS

Trig: Video

PN0: Fast

IFGain: Low

#Atten: 30 dB

07:54:41 PM Dec 20, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

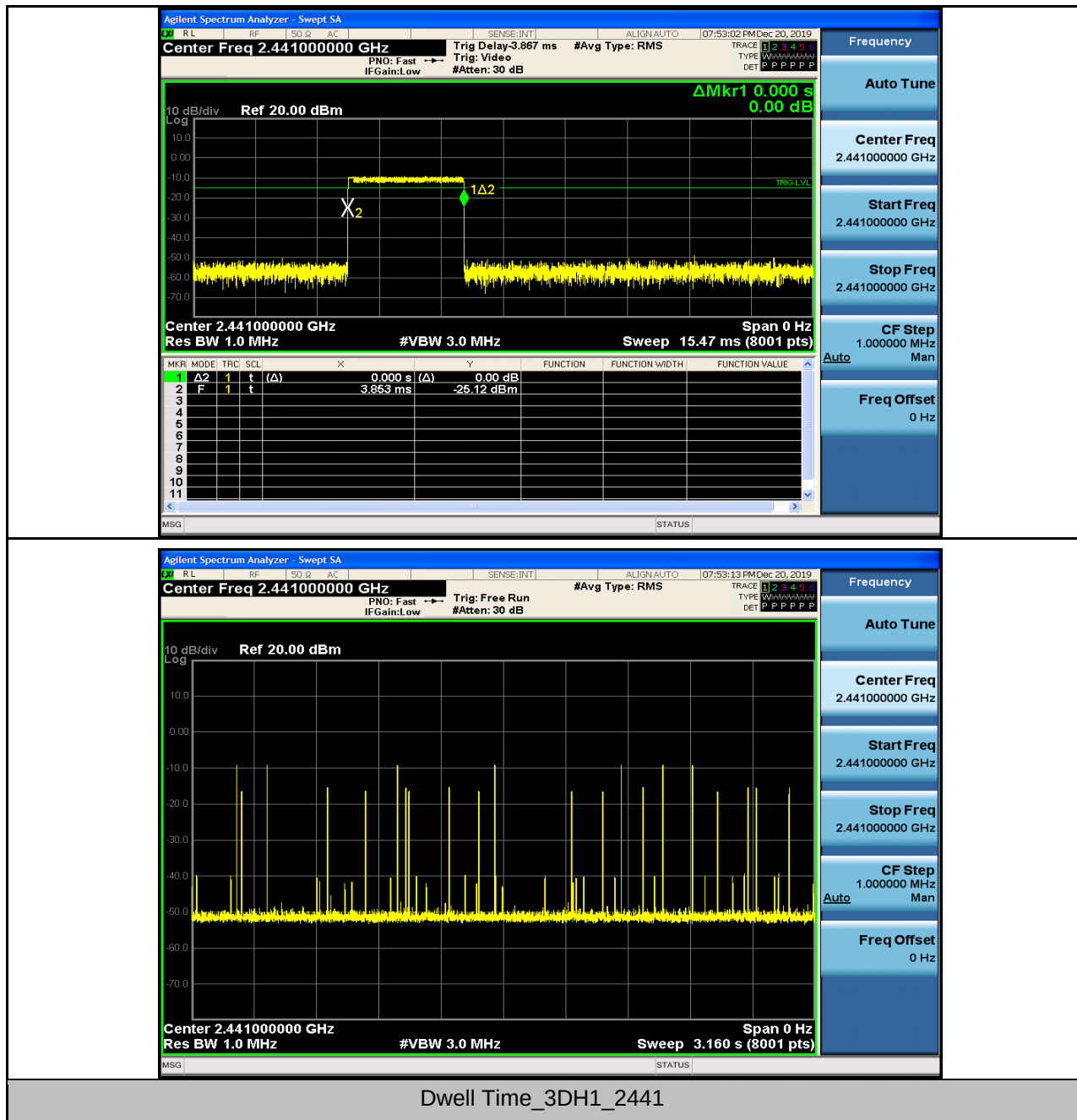
Res BW 1.0 MHz

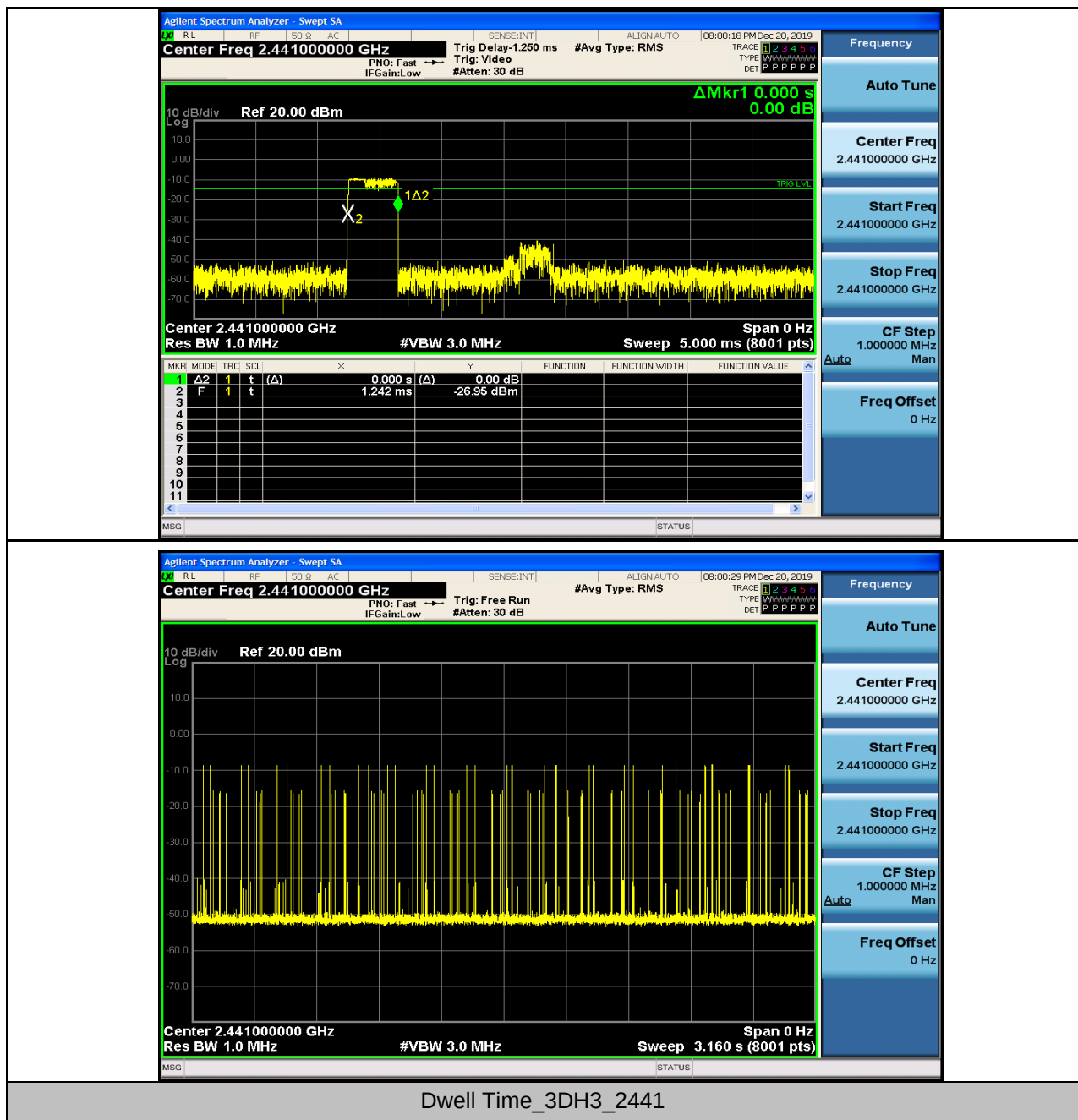
#VBW 3.0 MHz

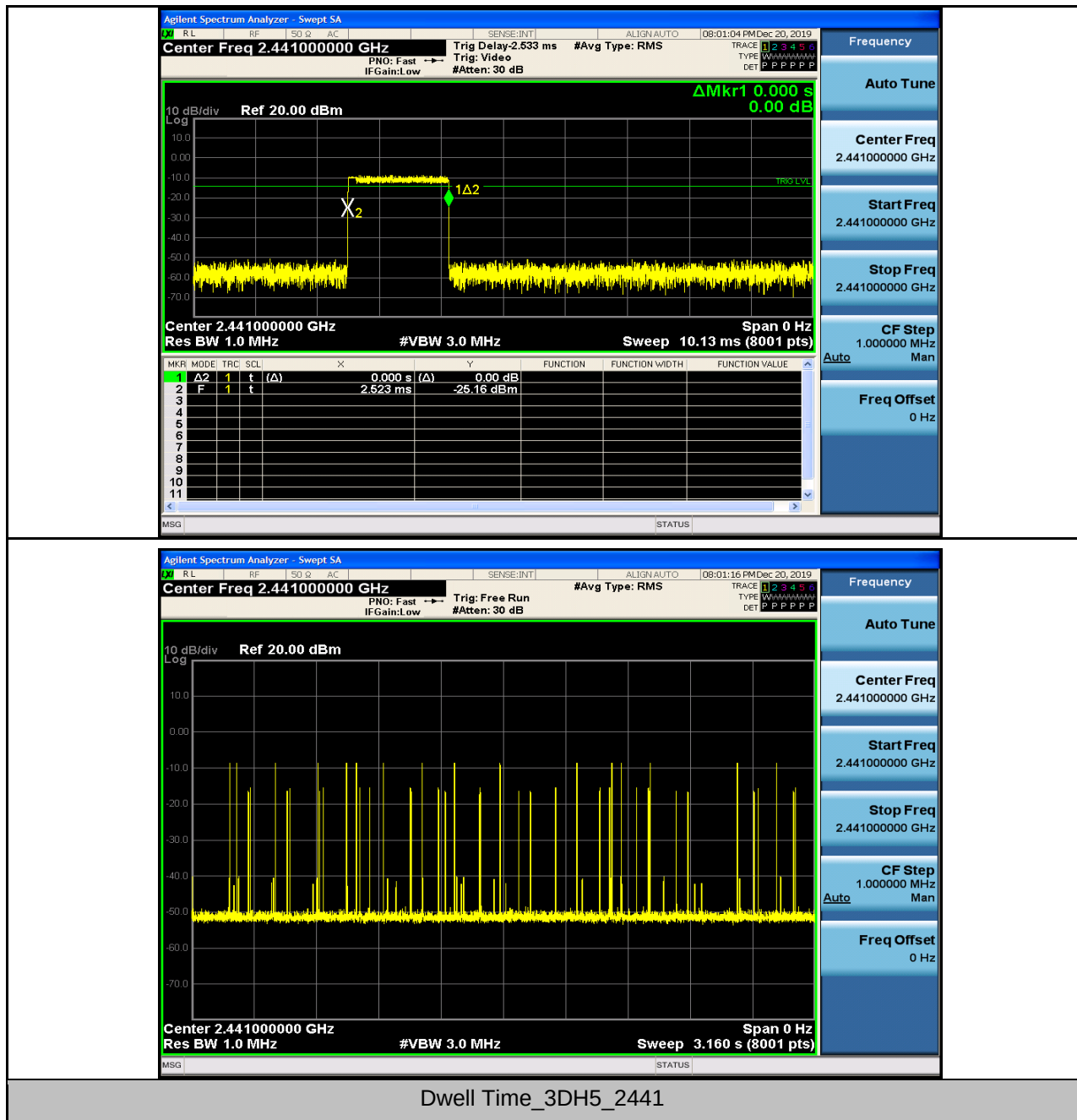
Sweep 3.160 s (8001 pts)

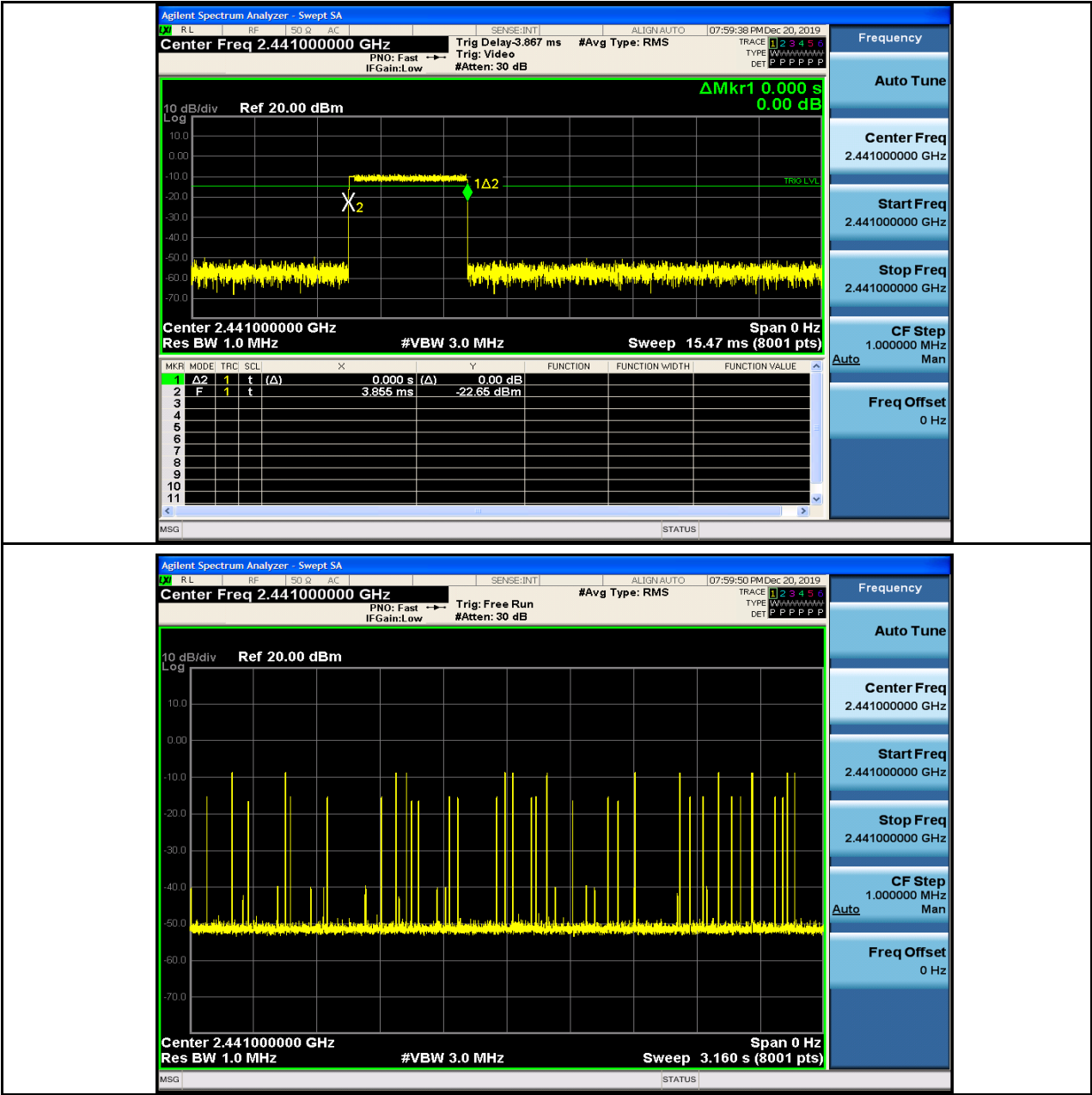
MSG

STATUS









Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig: Free Run

#Atten: 30 dB

#Avg Type: RMS

Trig: Free Run

#Atten: 30 dB

07:59:50 PM Dec 20, 2019

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P P P P P P

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Auto

Freq Offset 0 Hz

10 dB/div Ref 20.00 dBm

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 3.160 s (8001 pts)

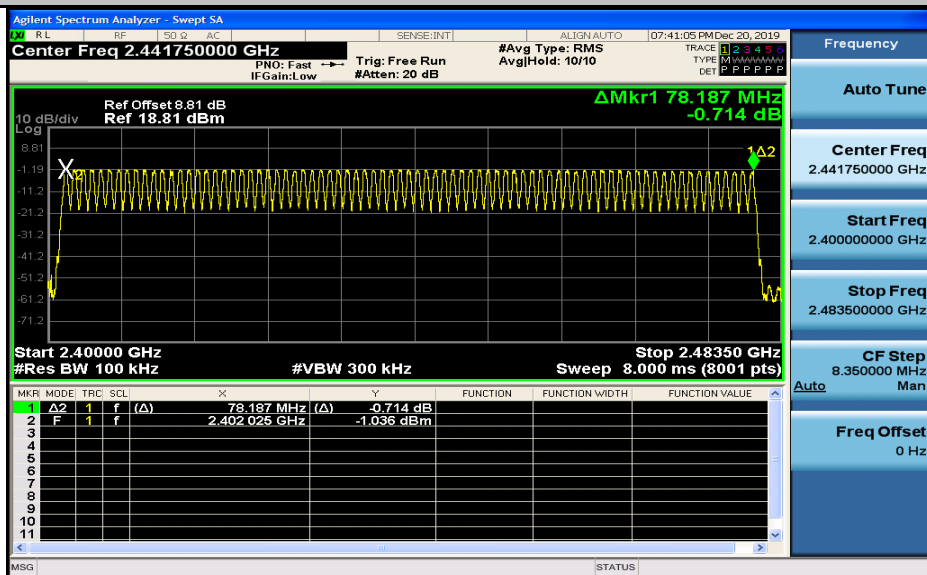
MSG STATUS



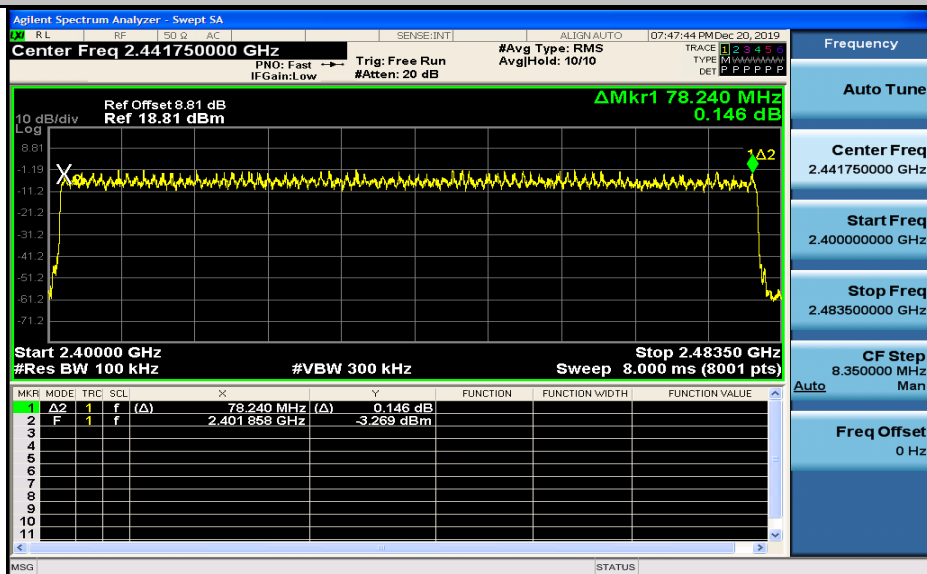
6.Hopping Channel Number

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

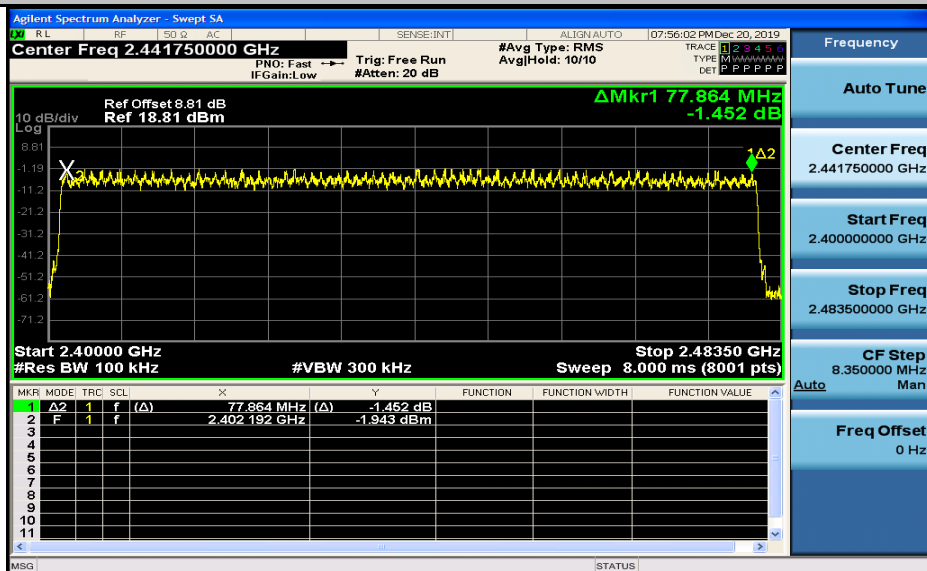
Hopping Channel Number_DH5



Hopping Channel Number_2DH5



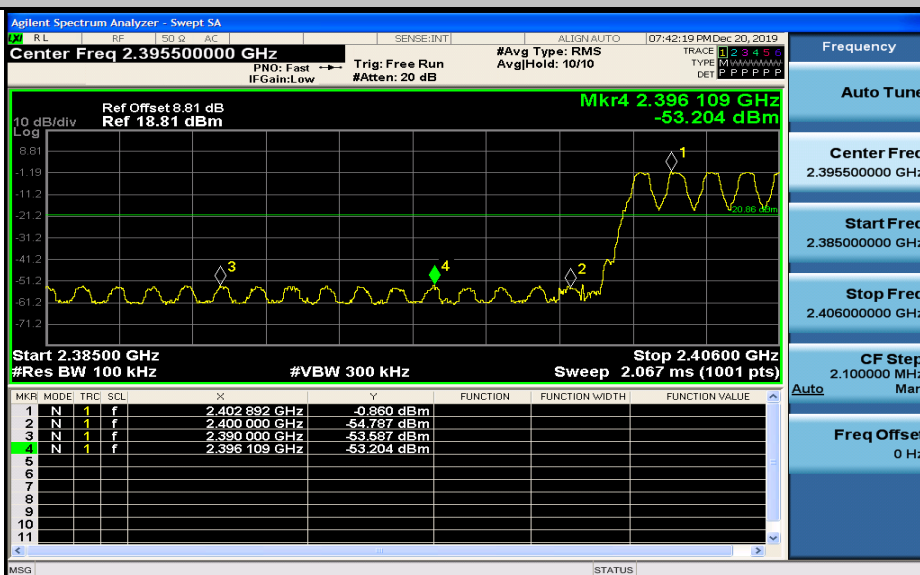
Hopping Channel Number_3DH5



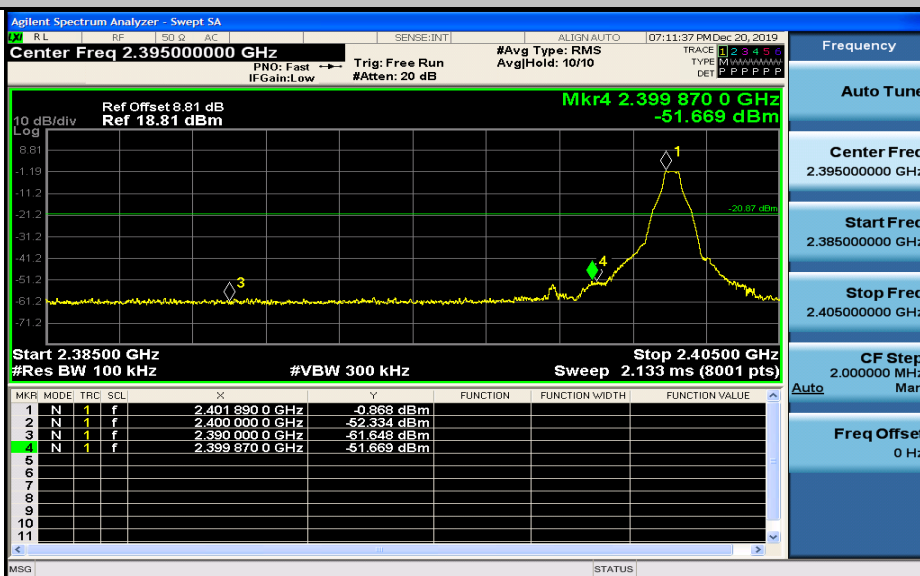
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
DH5	2402	On	-0.86	-53.20	-20.86	PASS
DH5	2402	Off	-0.87	-51.67	-20.87	PASS
DH5	2480	On	-1.50	-53.41	-21.50	PASS
DH5	2480	Off	-1.64	-58.45	-21.64	PASS
2DH5	2402	On	-0.92	-53.85	-20.92	PASS
2DH5	2402	Off	-0.92	-52.19	-20.92	PASS
2DH5	2480	On	-2.10	-54.79	-22.10	PASS
2DH5	2480	Off	-1.68	-58.16	-21.68	PASS
3DH5	2402	On	-0.97	-54.08	-20.97	PASS
3DH5	2402	Off	-0.93	-52.30	-20.93	PASS
3DH5	2480	On	-1.46	-53.60	-21.46	PASS
3DH5	2480	Off	-1.67	-57.89	-21.67	PASS

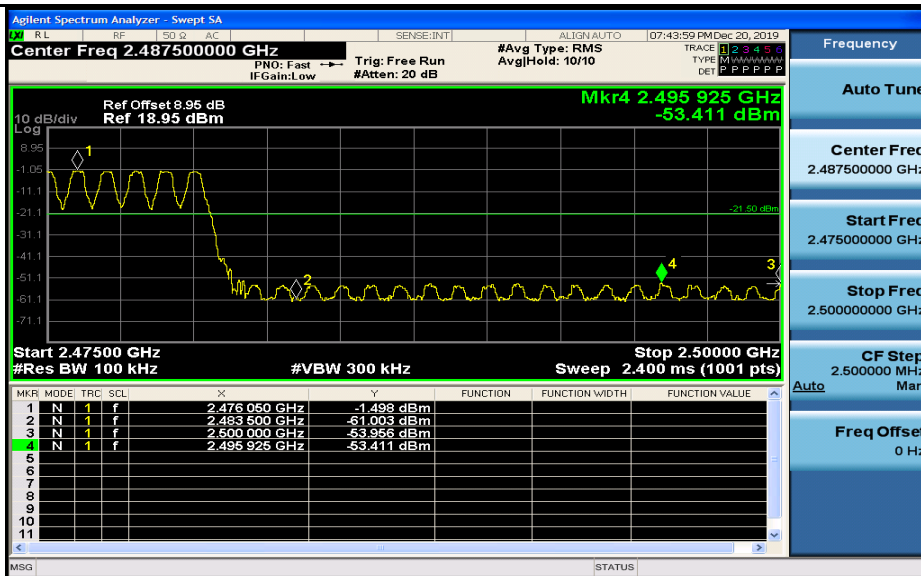
Band-edge for RF Conducted Emissions_DH5_2402_Hopping On



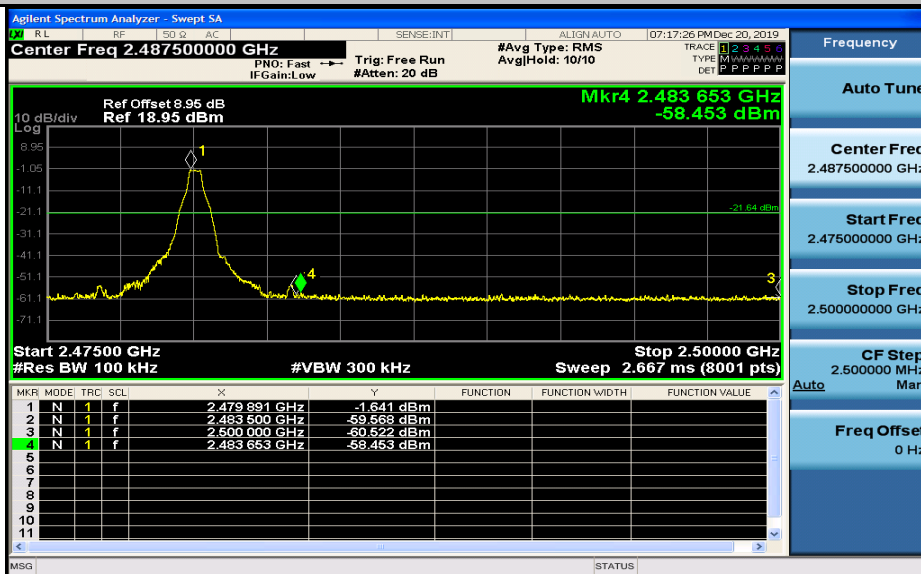
Band-edge for RF Conducted Emissions_DH5_2402_Hopping Off



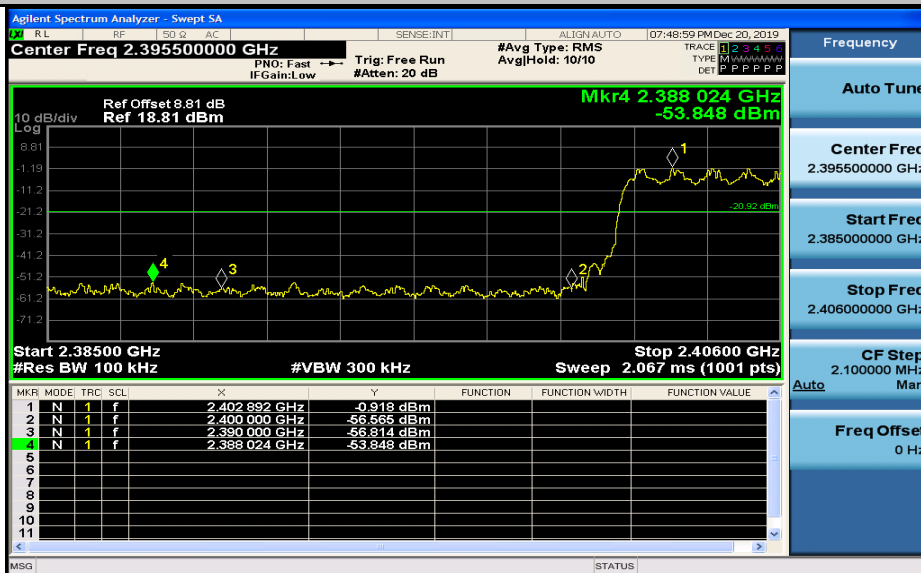
Band-edge for RF Conducted Emissions_DH5_2480_Hopping On



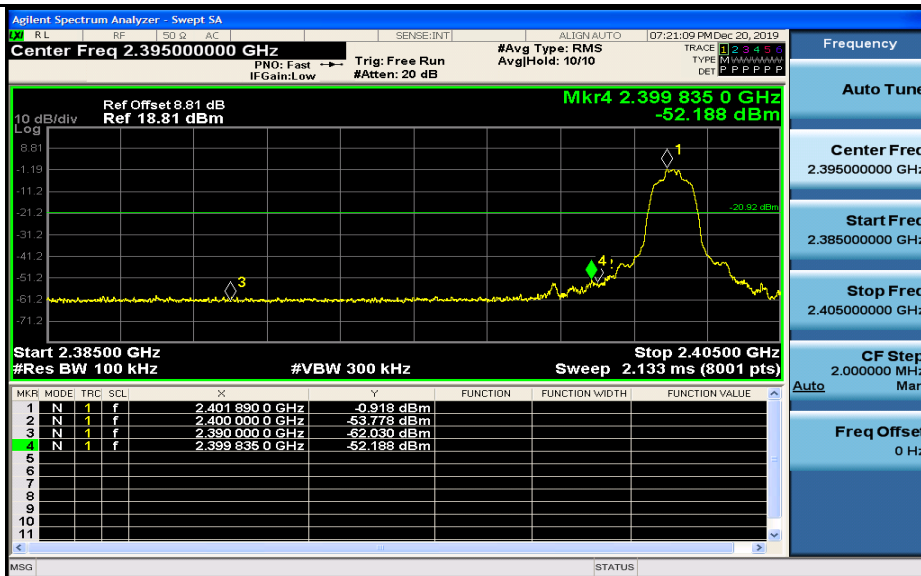
Band-edge for RF Conducted Emissions_DH5_2480_Hopping Off



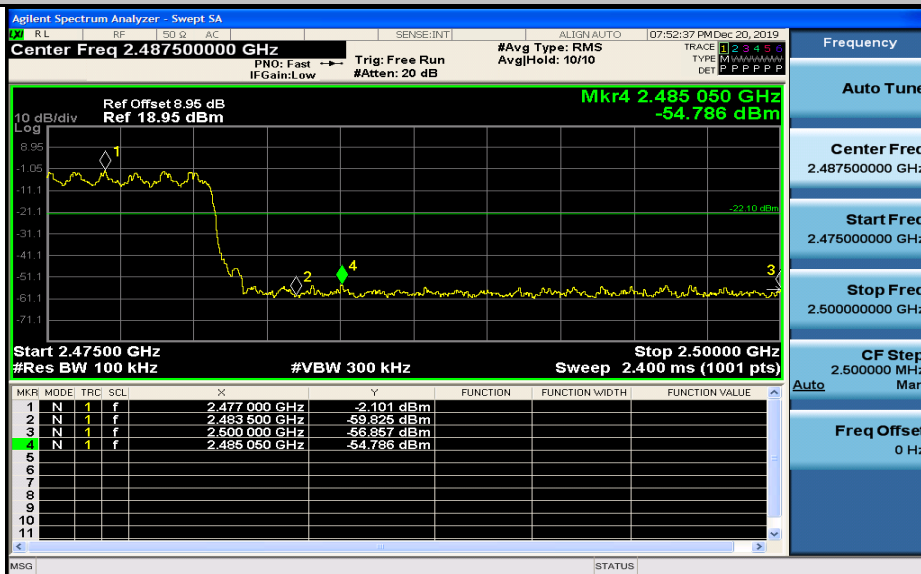
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping On



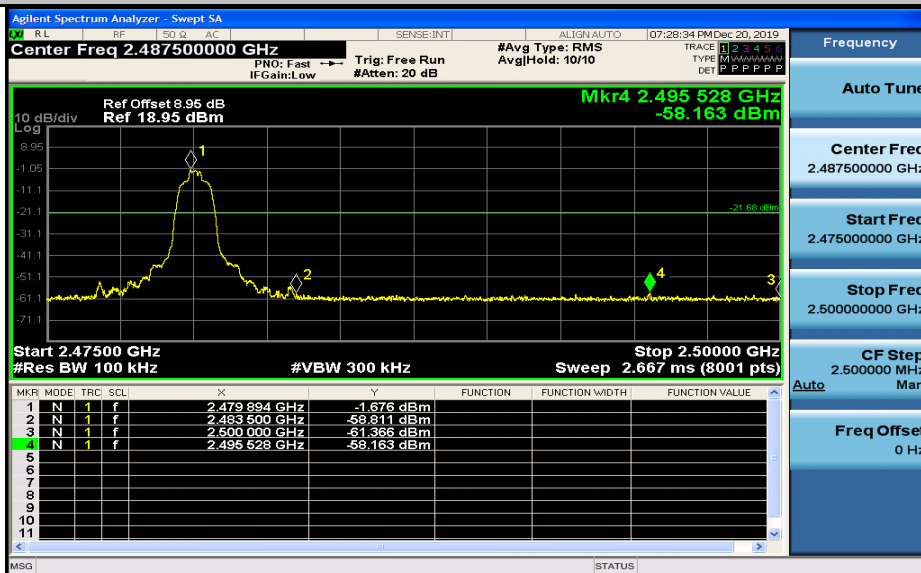
Band-edge for RF Conducted Emissions_2DH5_2402_Hopping Off



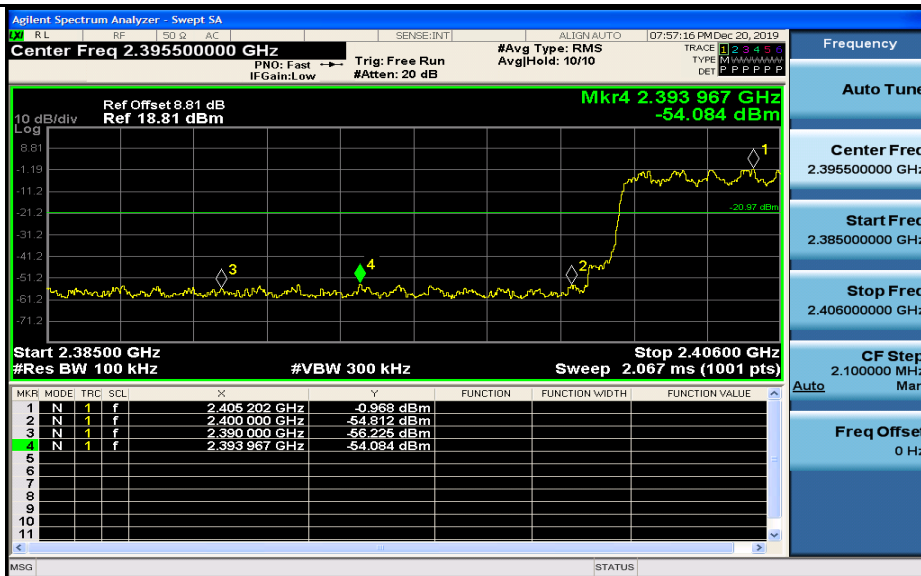
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping On



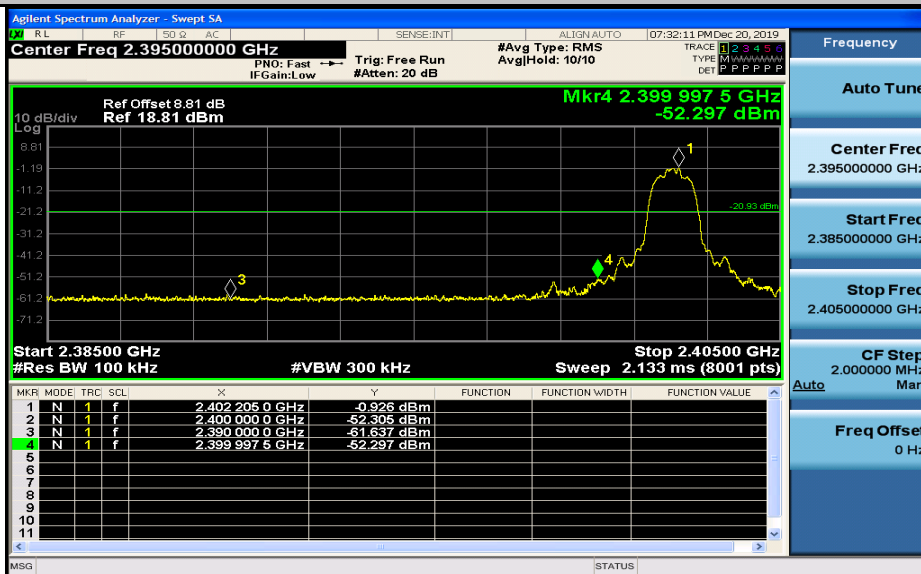
Band-edge for RF Conducted Emissions_2DH5_2480_Hopping Off



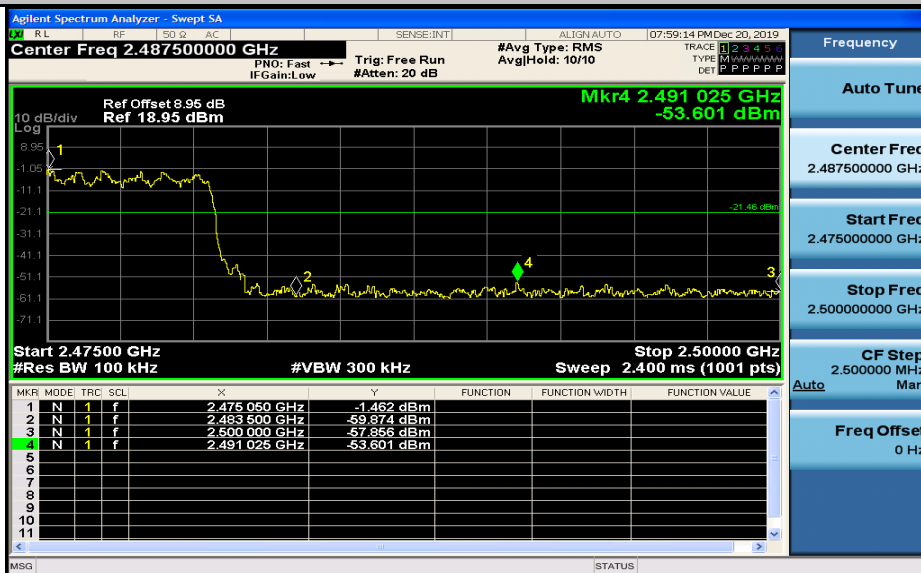
Band-edge for RF Conducted Emissions_3DH5_2402_Hopping On



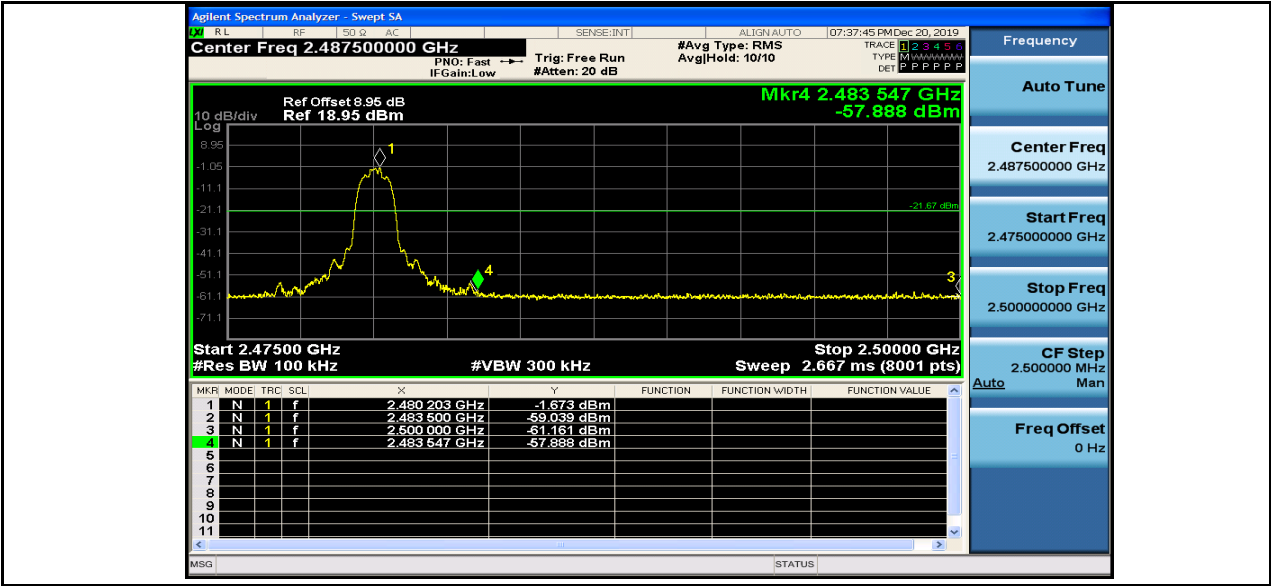
Band-edge for RF Conducted Emissions_3DH5_2402_Hopping Off



Band-edge for RF Conducted Emissions_3DH5_2480_Hopping On



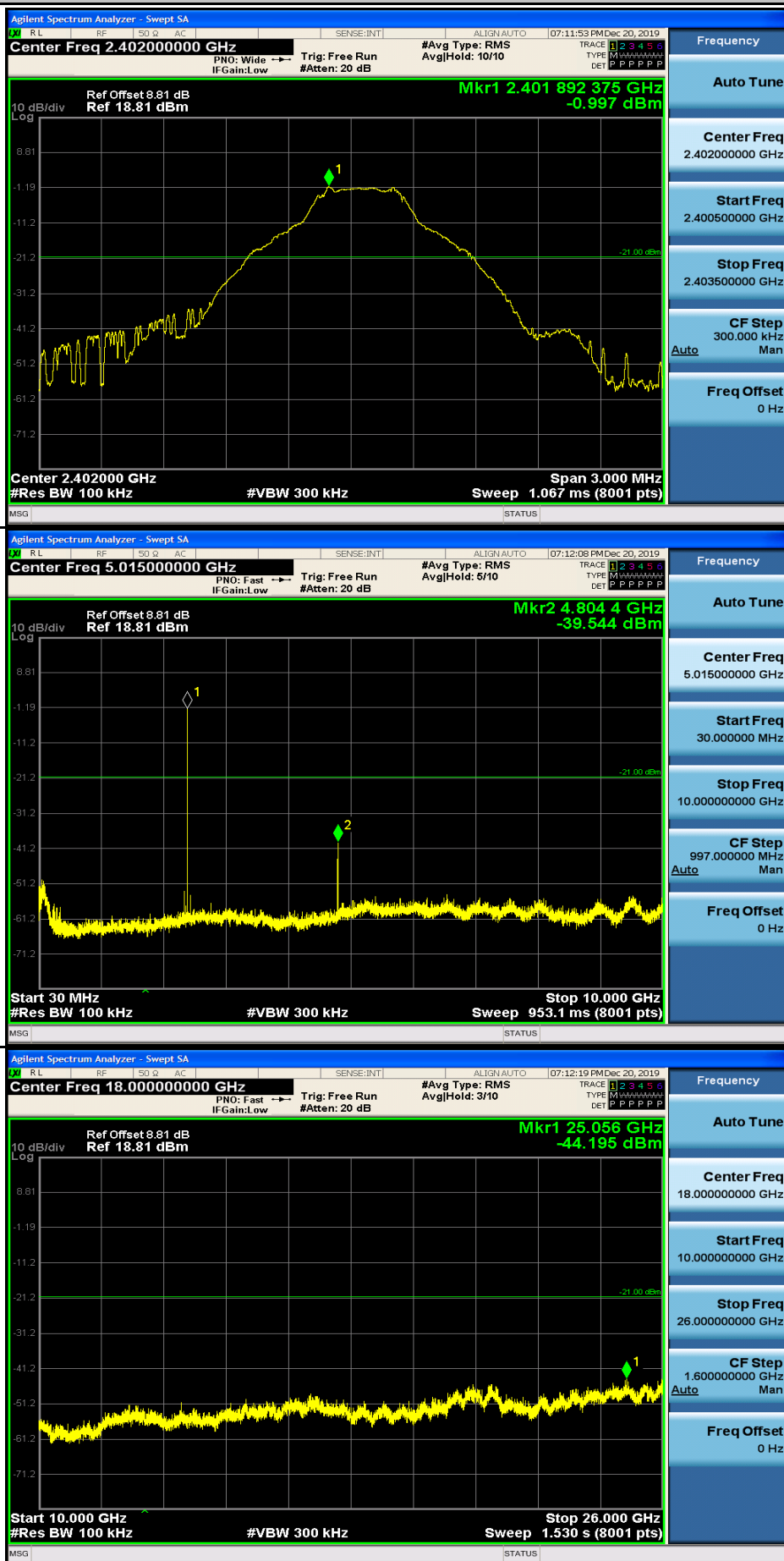
Band-edge for RF Conducted Emissions_3DH5_2480_Hopping Off



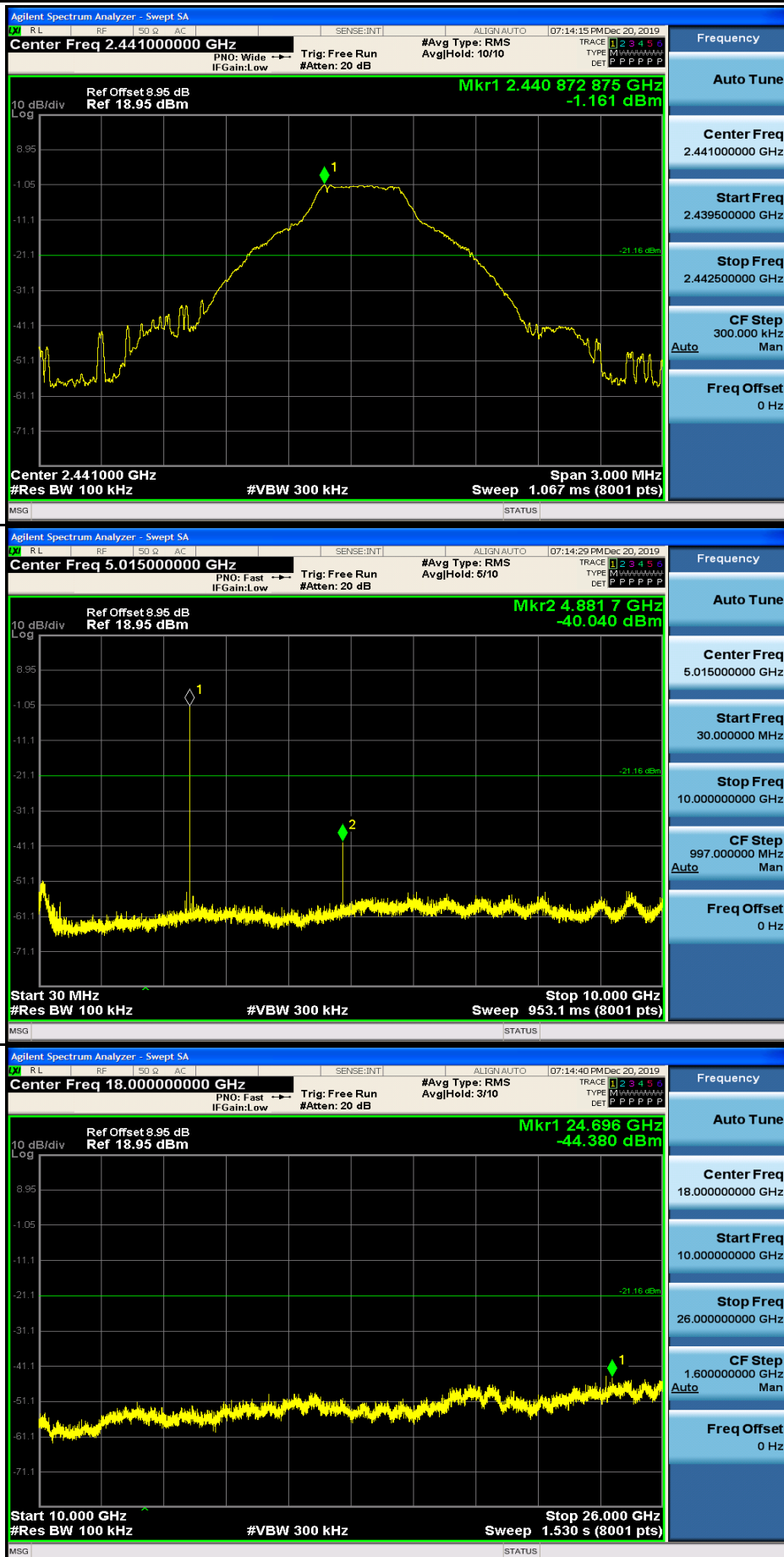
8.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
DH5	2402	30	10000	100	300	-1.00	-39.54	<-21.00	PASS
DH5	2402	10000	26000	100	300	-0.997	-44.195	<-20.997	PASS
DH5	2441	30	10000	100	300	-1.16	-40.04	<-21.16	PASS
DH5	2441	10000	26000	100	300	-1.161	-44.380	<-21.161	PASS
DH5	2480	30	10000	100	300	-2.07	-41.15	<-22.07	PASS
DH5	2480	10000	26000	100	300	-2.073	-44.094	<-22.073	PASS
2DH5	2402	30	10000	100	300	-1.15	-43.08	<-21.15	PASS
2DH5	2402	10000	26000	100	300	-1.151	-44.718	<-21.151	PASS
2DH5	2441	30	10000	100	300	-1.43	-44.80	<-21.43	PASS
2DH5	2441	10000	26000	100	300	-1.426	-44.767	<-21.426	PASS
2DH5	2480	30	10000	100	300	-2.03	-46.20	<-22.03	PASS
2DH5	2480	10000	26000	100	300	-2.033	-44.843	<-22.033	PASS
3DH5	2402	30	10000	100	300	-1.12	-44.70	<-21.12	PASS
3DH5	2402	10000	26000	100	300	-1.116	-43.610	<-21.116	PASS
3DH5	2441	30	10000	100	300	-1.00	-40.24	<-21.00	PASS
3DH5	2441	10000	26000	100	300	-1.003	-42.485	<-21.003	PASS
3DH5	2480	30	10000	100	300	-1.78	-44.44	<-21.78	PASS
3DH5	2480	10000	26000	100	300	-1.783	-44.716	<-21.783	PASS

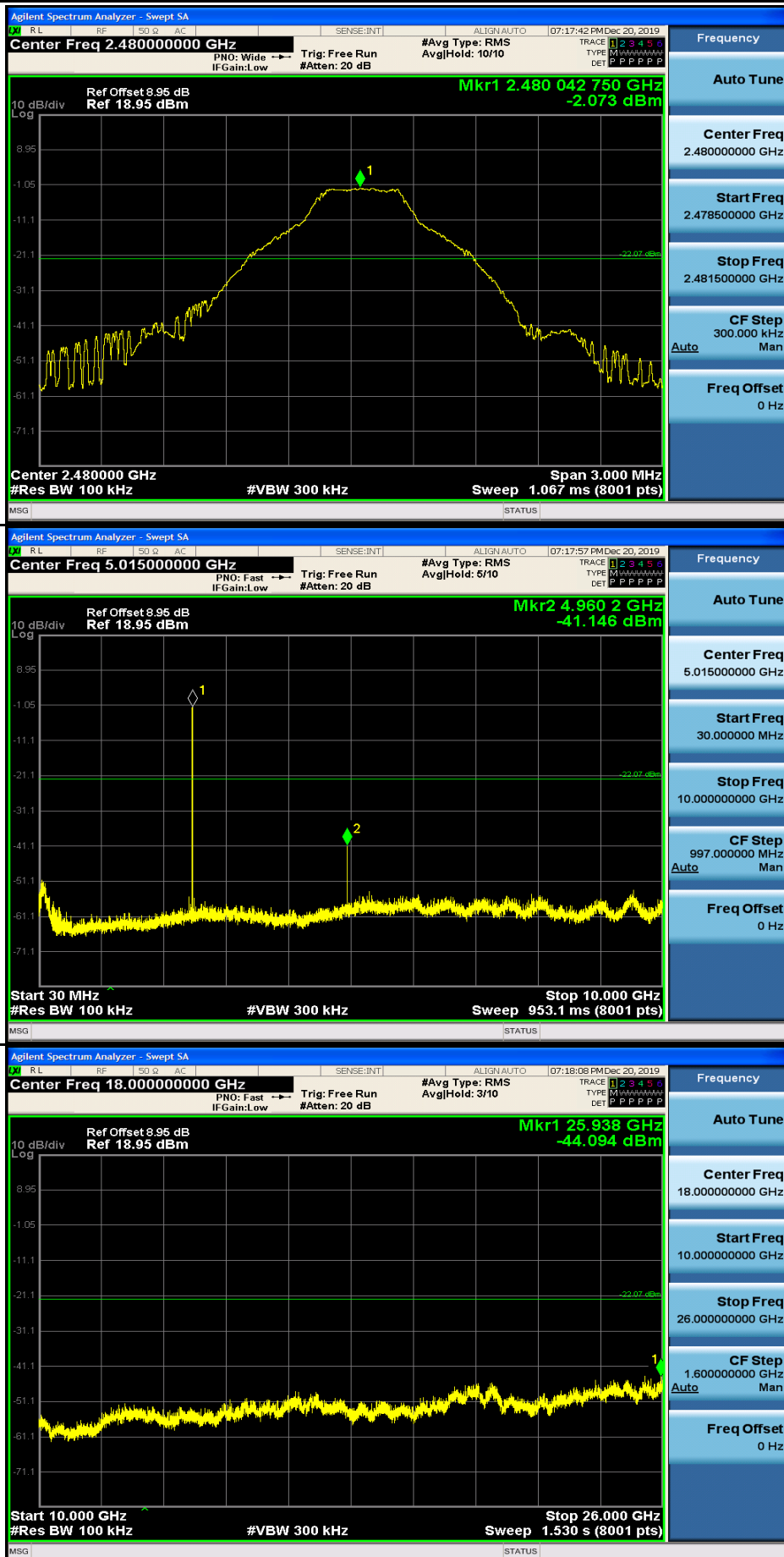
RF Conducted Spurious Emissions_DH5_2402



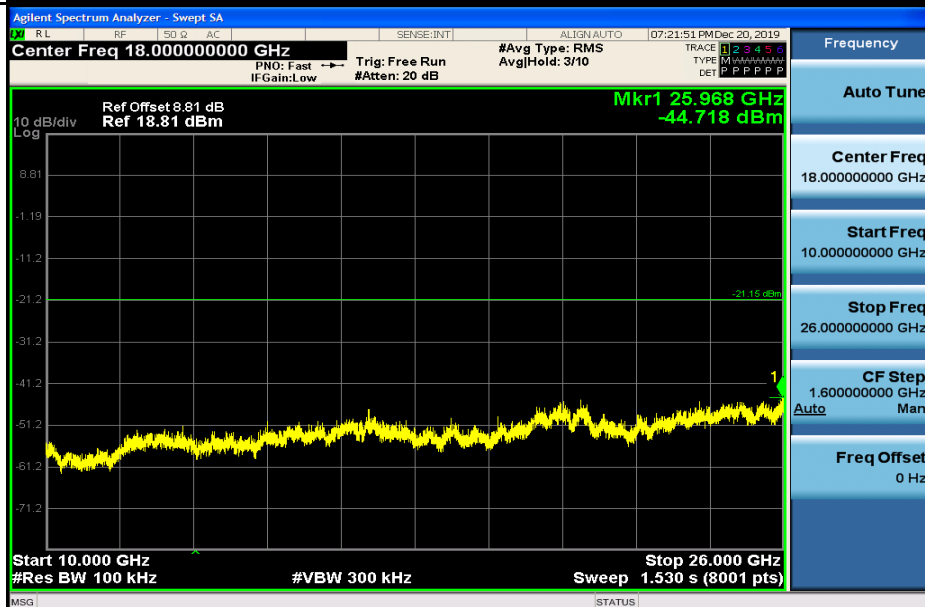
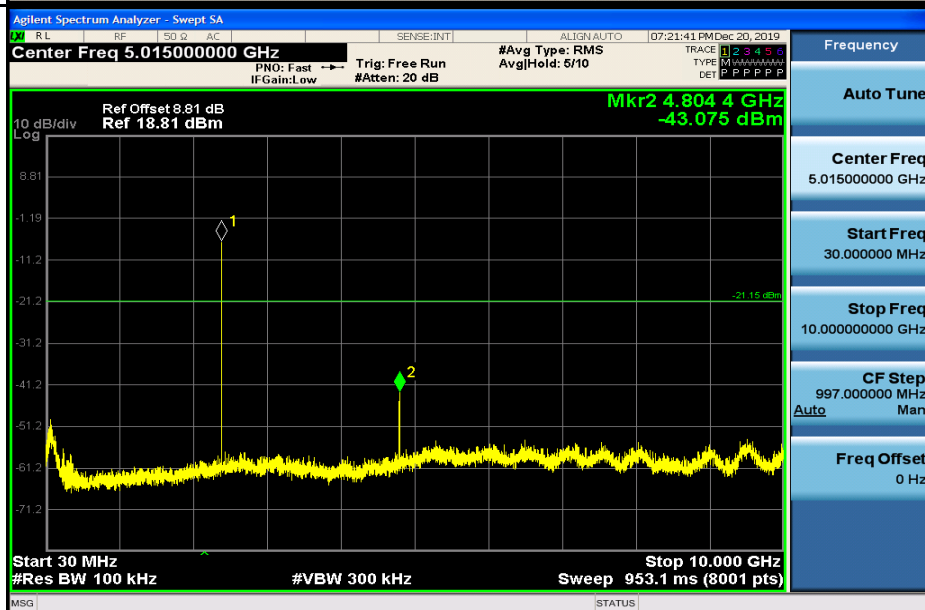
RF Conducted Spurious Emissions_DH5_2441



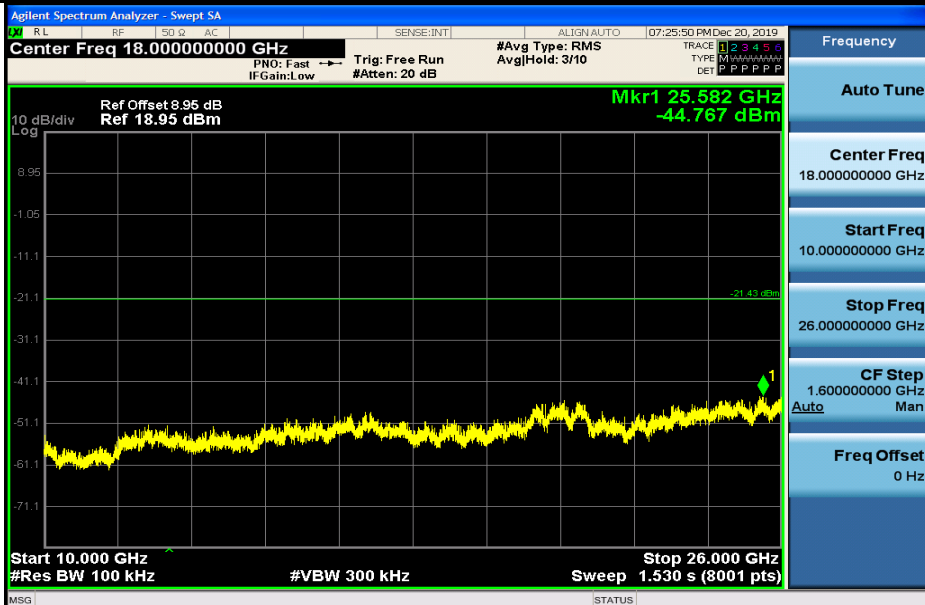
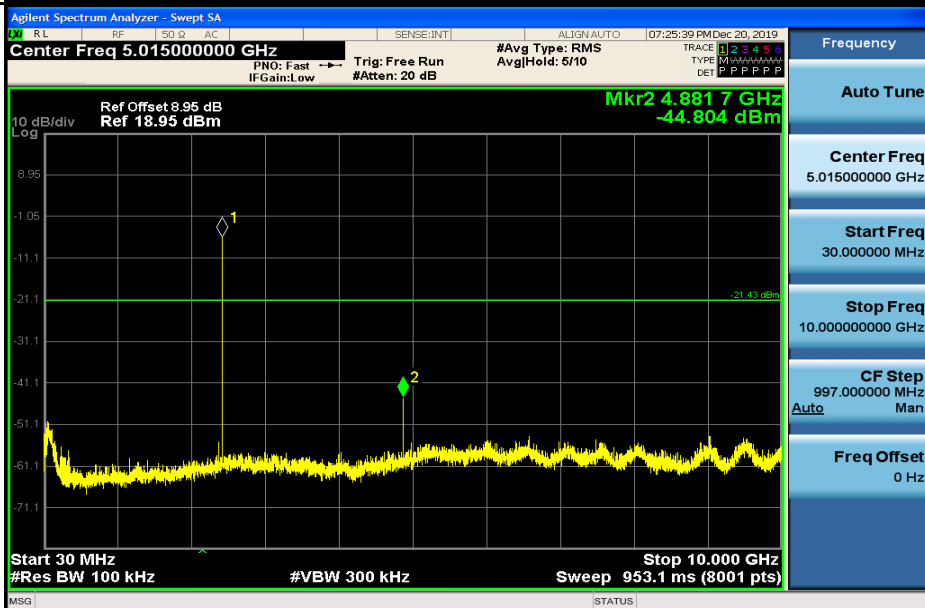
RF Conducted Spurious Emissions_DH5_2480



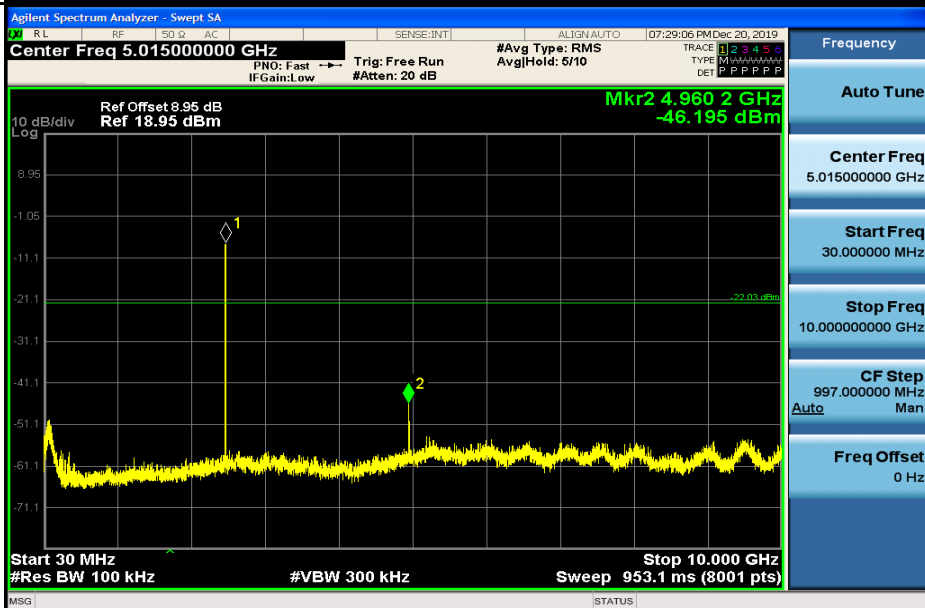
RF Conducted Spurious Emissions_2DH5_2402



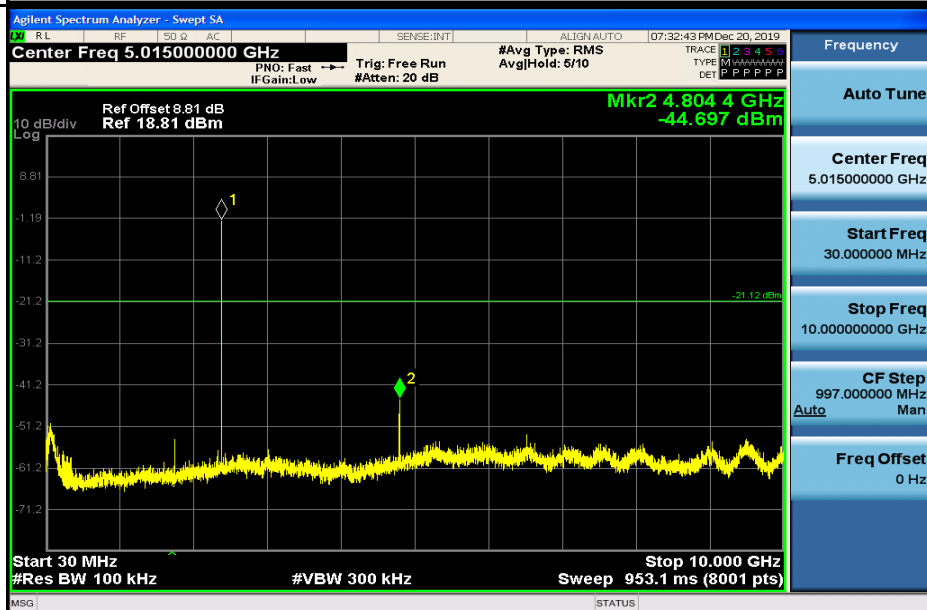
RF Conducted Spurious Emissions_2DH5_2441



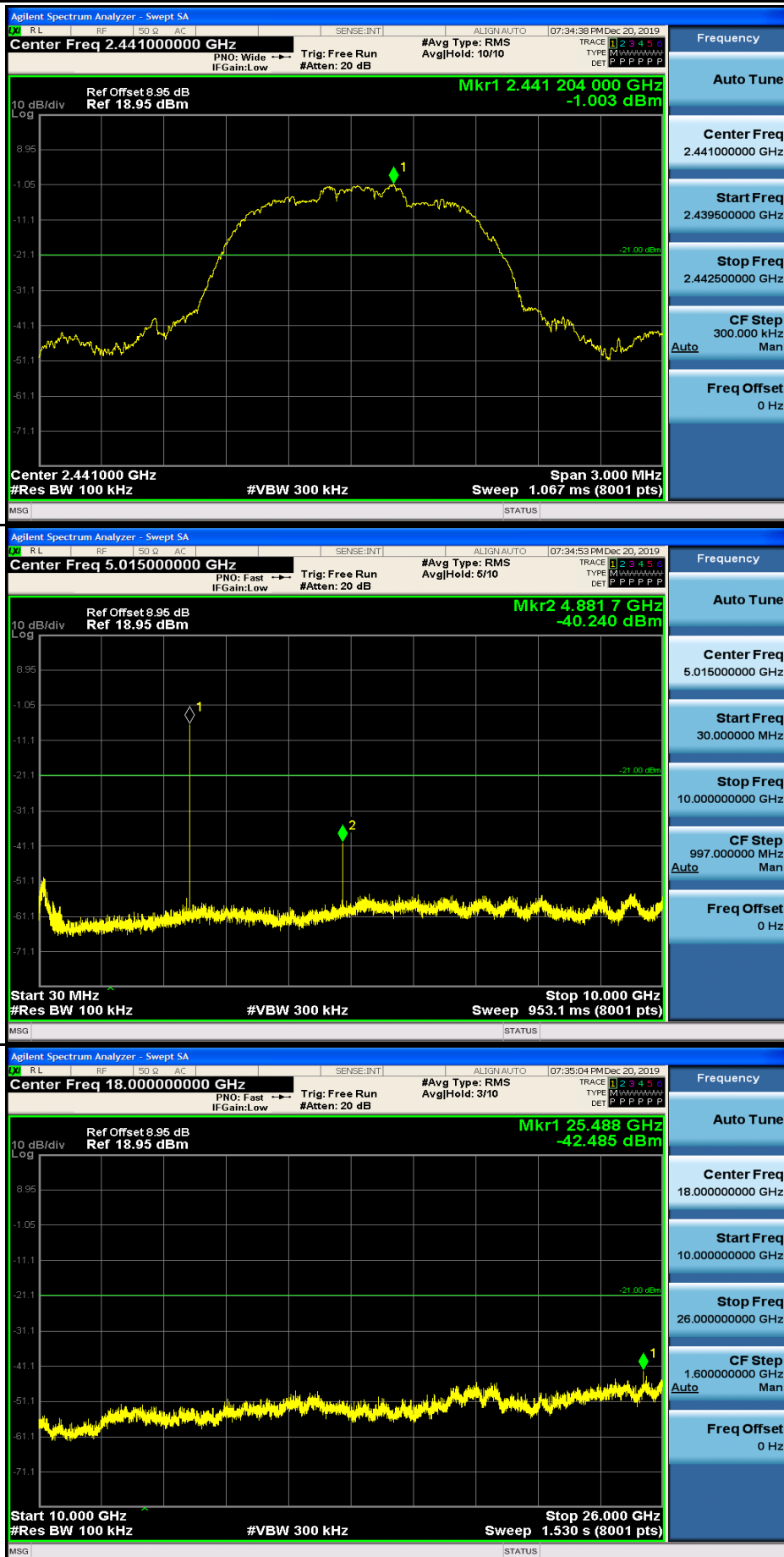
RF Conducted Spurious Emissions_2DH5_2480



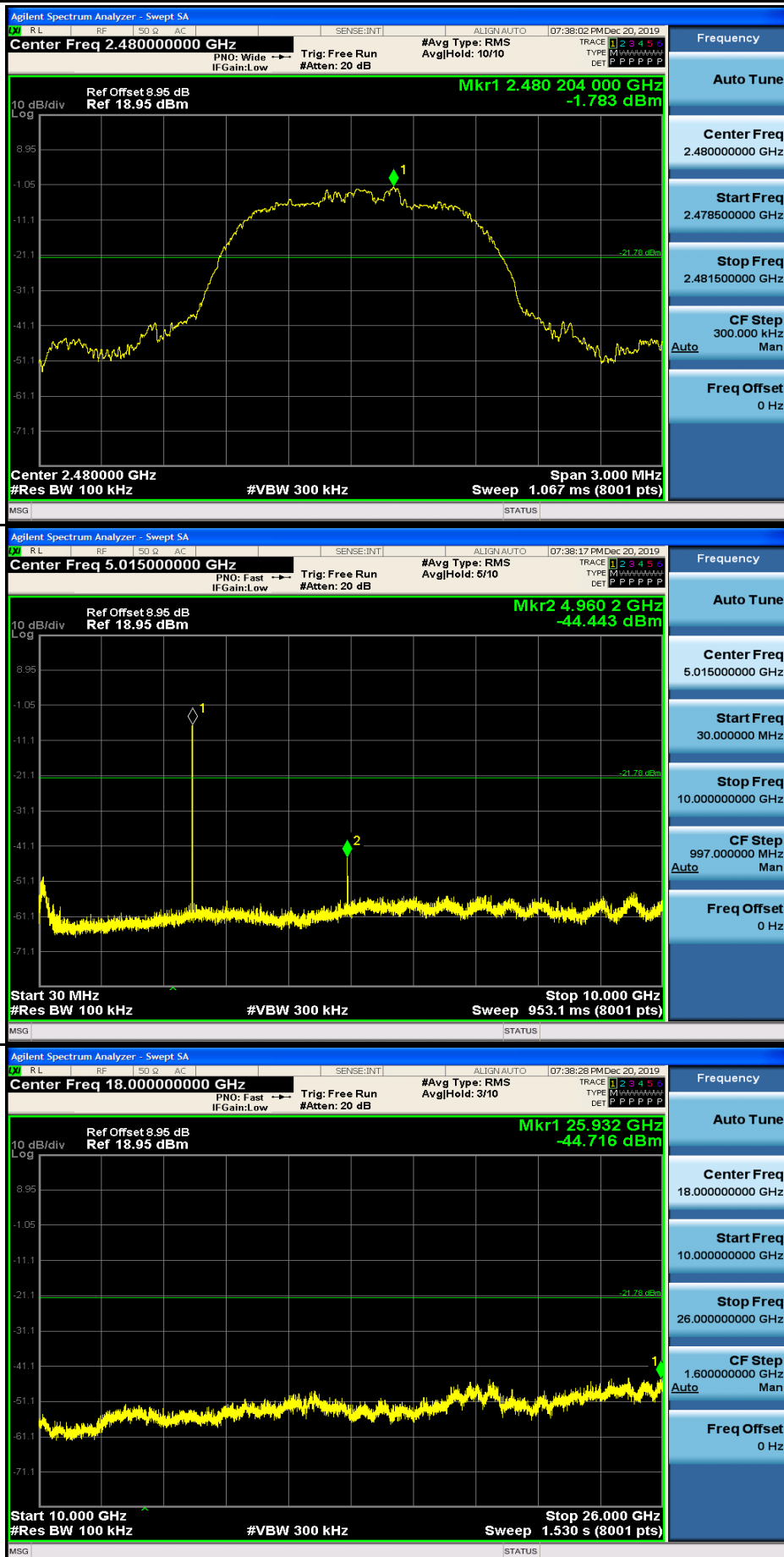
RF Conducted Spurious Emissions_3DH5_2402



RF Conducted Spurious Emissions_3DH5_2441



RF Conducted Spurious Emissions_3DH5_2480





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Branch**