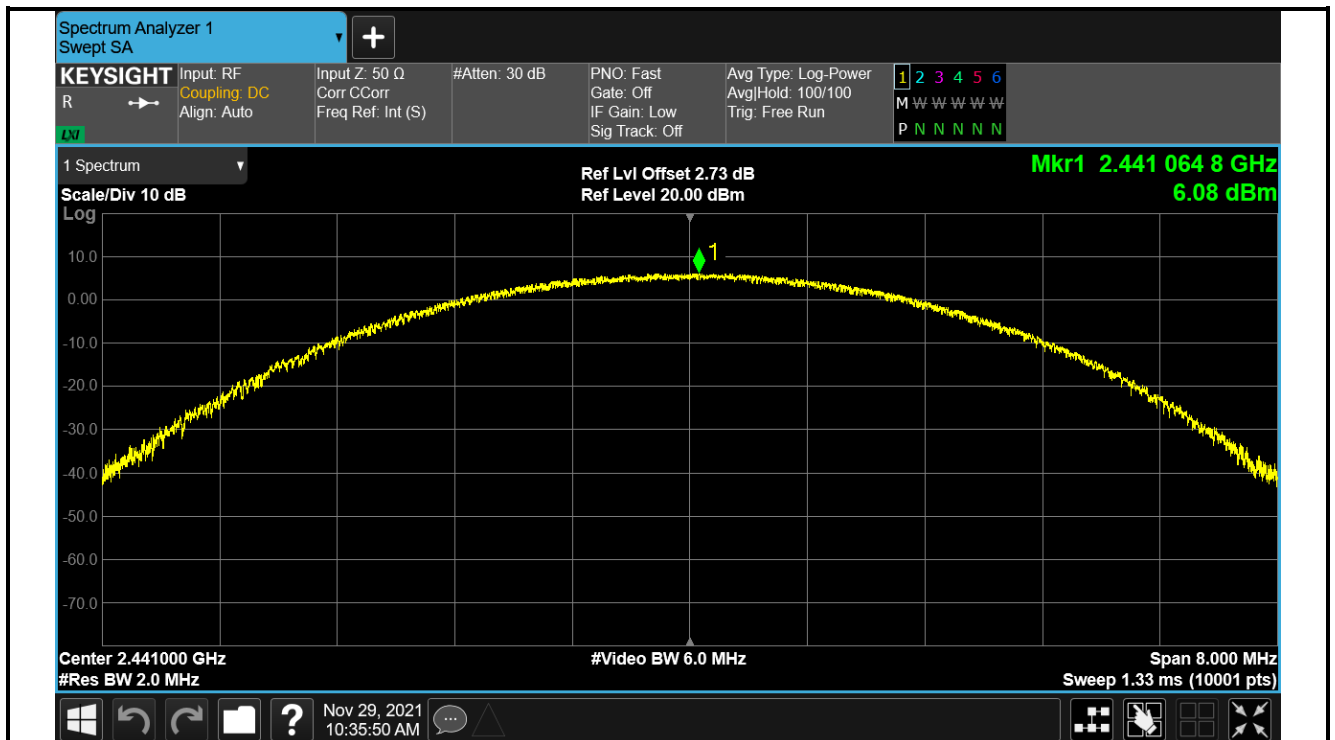
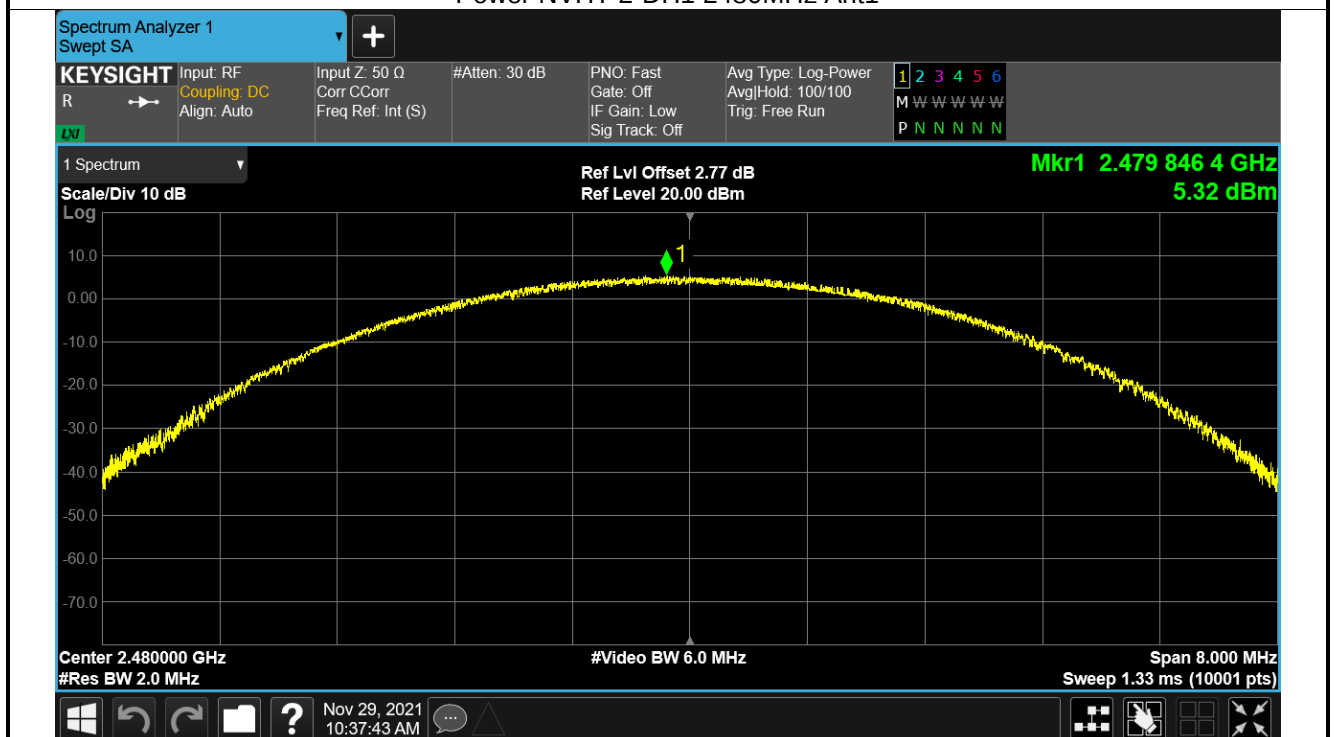




Power NVHT 2-DH1 2480MHz Ant1



Power NVHT 3-DH1 2402MHz Ant1



Power NVHT 3-DH1 2441MHz Ant1

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF
R Coupling: DC
Align: Auto

Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)

#Atten: 30 dB

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

Avg Type: Log-Power
Avg/Hold: 100/100
Trig: Free Run

1 2 3 4 5 6
M W W W W W
P N N N N N

1 Spectrum

Ref Lvl Offset 2.73 dB
Ref Level 20.00 dBm

Mkr1 2.440 956 0 GHz
6.54 dBm

Scale/Div 10 dB
Log

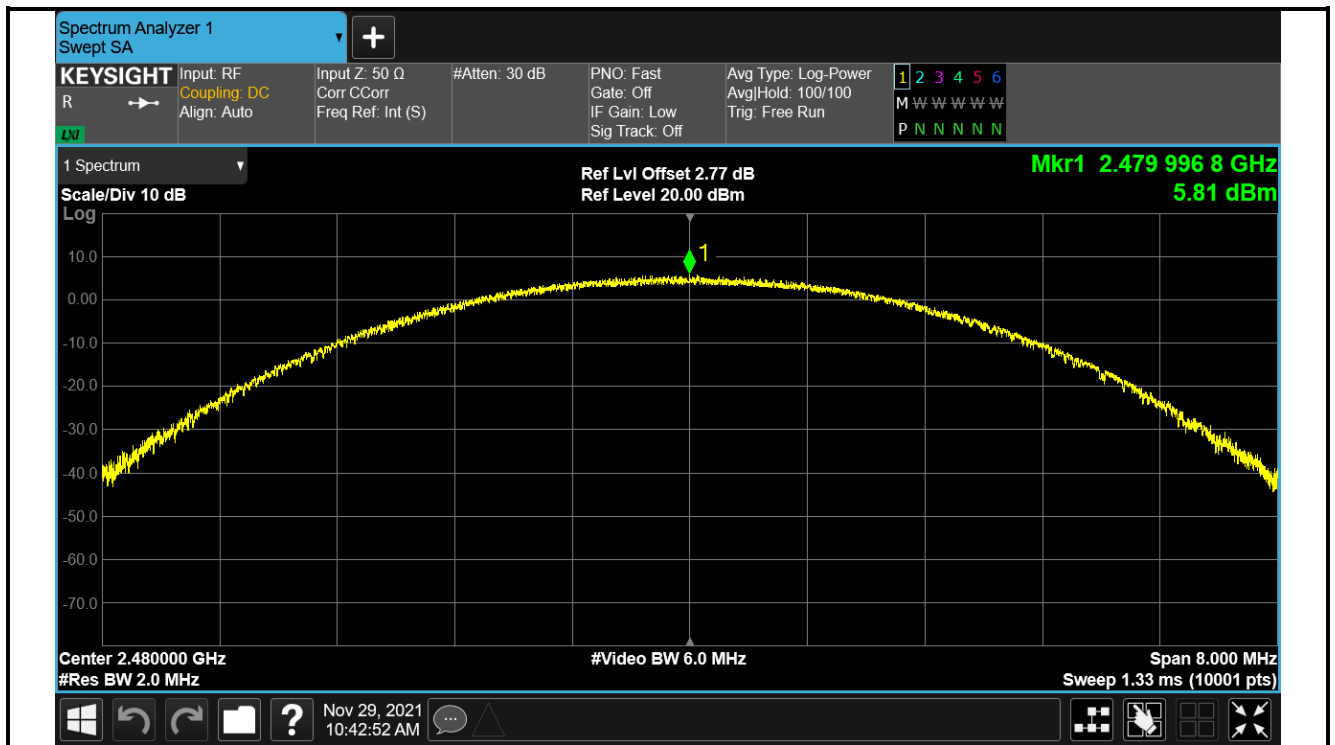
Center 2.441000 GHz
#Res BW 2.0 MHz

#Video BW 6.0 MHz

Span 8.000 MHz
Sweep 1.33 ms (10001 pts)

Nov 29, 2021
10:41:34 AM

Power NVHT 3-DH1 2480MHz Ant1

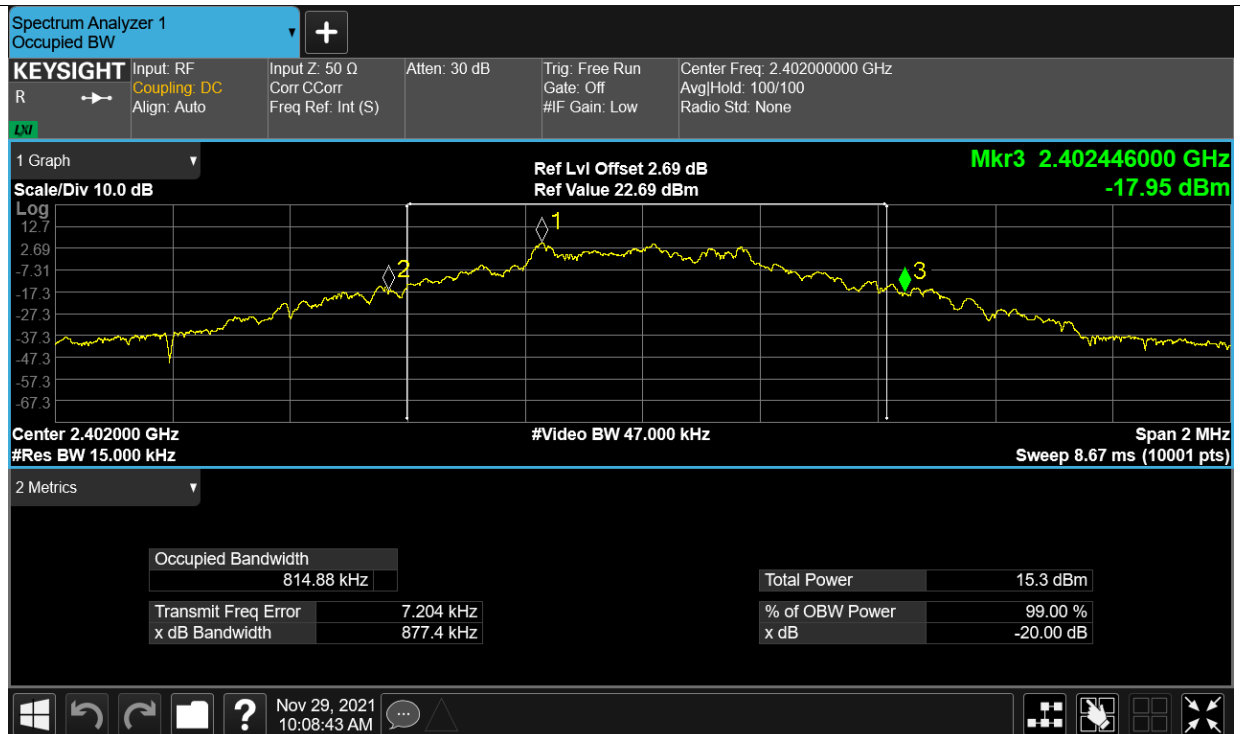


A.2 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVHT	1-DH1	2402	Ant1	0.877	0	Pass
NVHT	1-DH1	2441	Ant1	0.878	0	Pass
NVHT	1-DH1	2480	Ant1	0.874	0	Pass
NVHT	2-DH1	2402	Ant1	1.278	0	Pass
NVHT	2-DH1	2441	Ant1	1.286	0	Pass
NVHT	2-DH1	2480	Ant1	1.275	0	Pass
NVHT	3-DH1	2402	Ant1	1.202	0	Pass
NVHT	3-DH1	2441	Ant1	1.201	0	Pass
NVHT	3-DH1	2480	Ant1	1.215	0	Pass

Test Graphs

-20dB Bandwidth NVHT 1-DH1 2402MHz Ant1



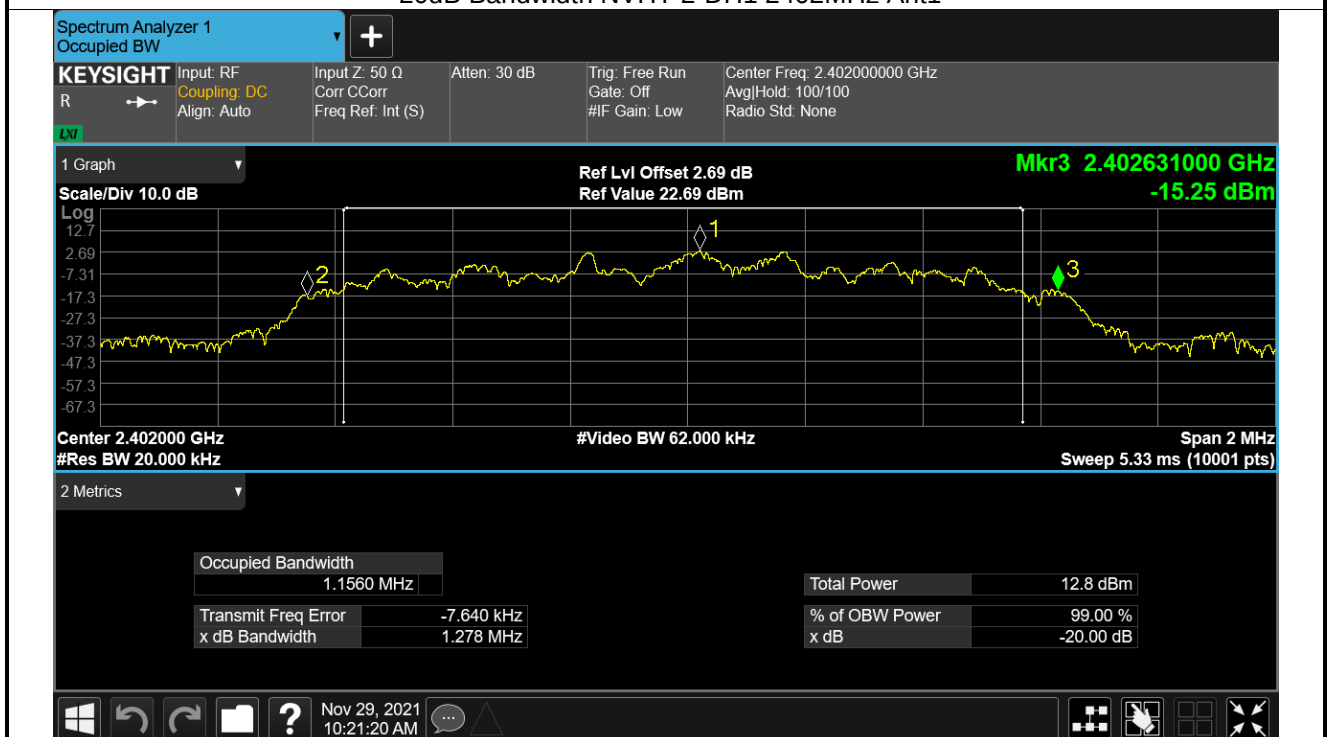
-20dB Bandwidth NVHT 1-DH1 2441MHz Ant1



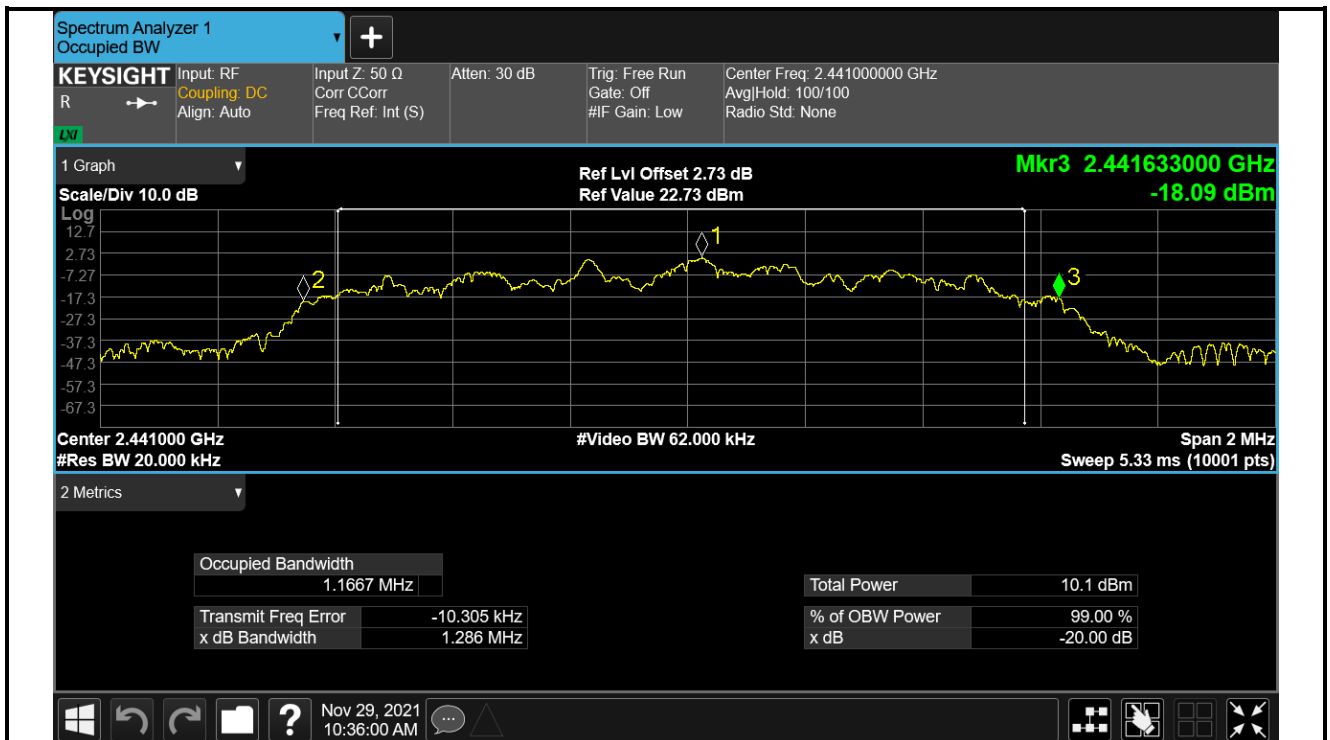
-20dB Bandwidth NVHT 1-DH1 2480MHz Ant1



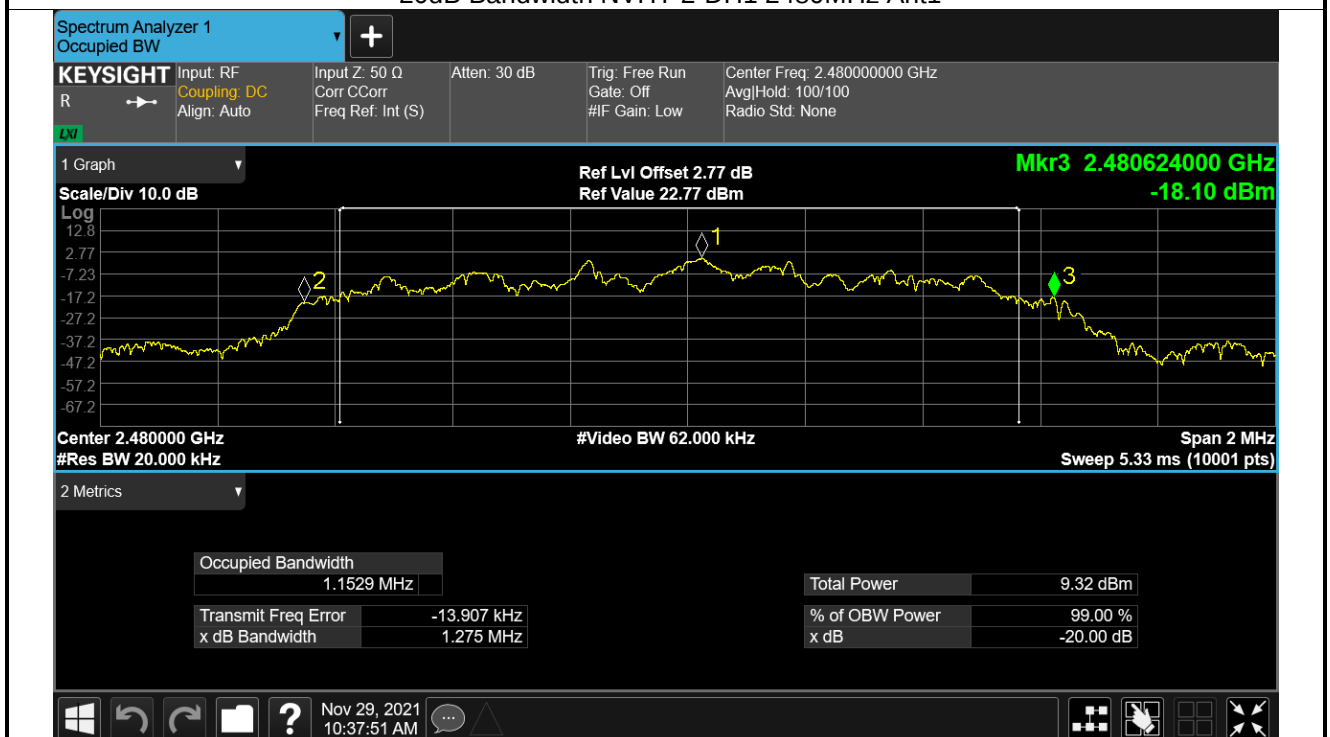
-20dB Bandwidth NVHT 2-DH1 2402MHz Ant1



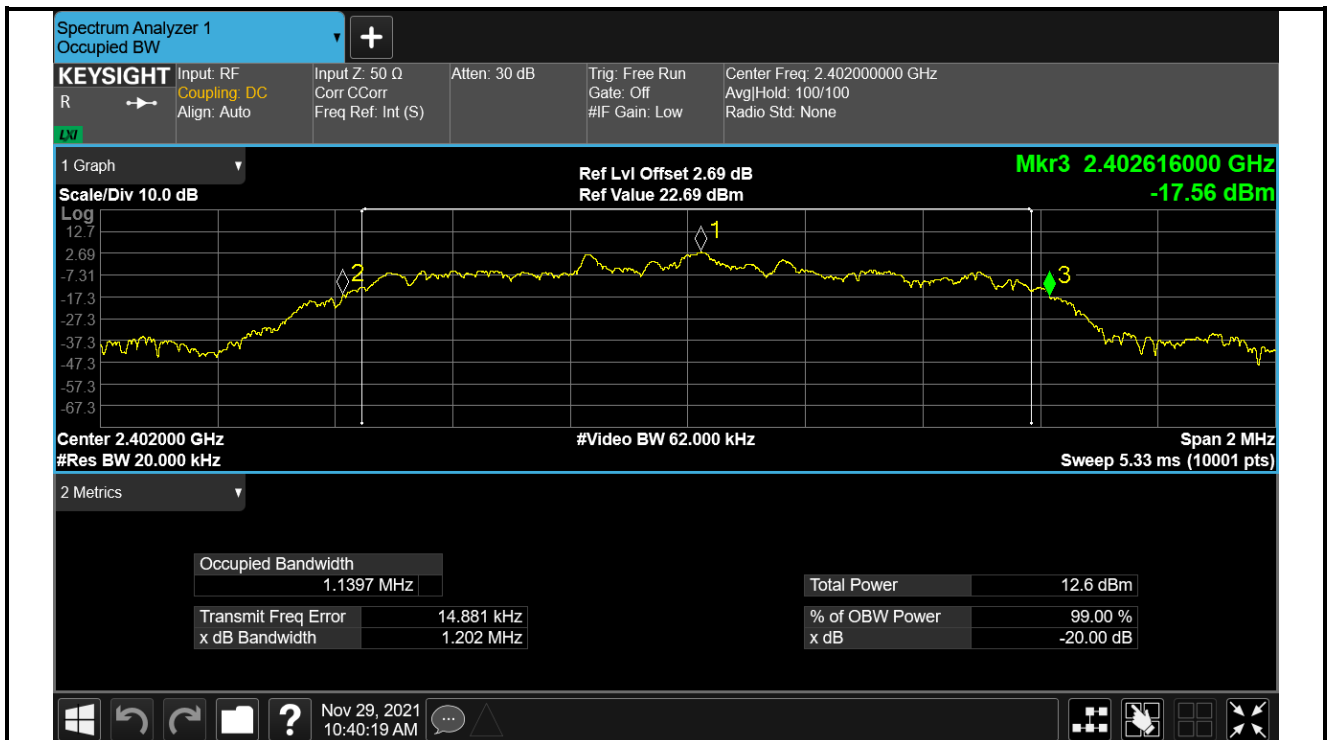
-20dB Bandwidth NVHT 2-DH1 2441MHz Ant1



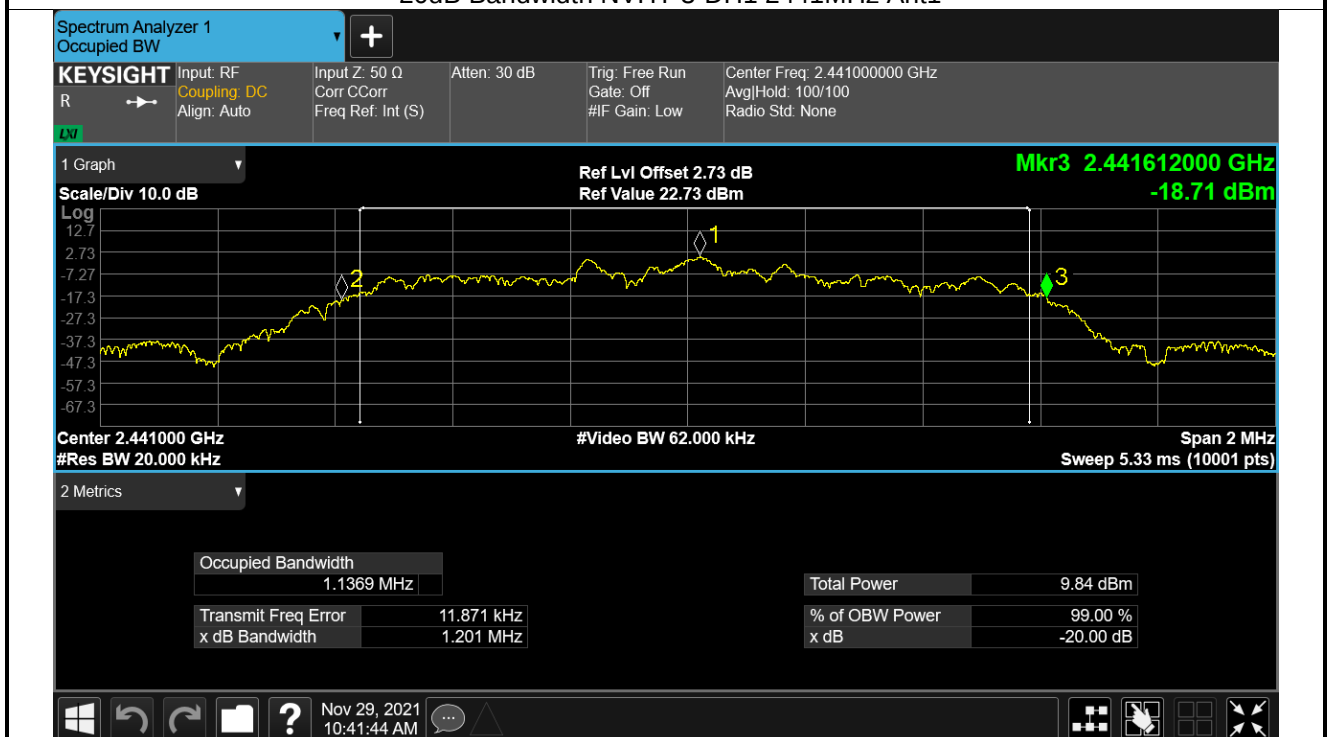
-20dB Bandwidth NVHT 2-DH1 2480MHz Ant1



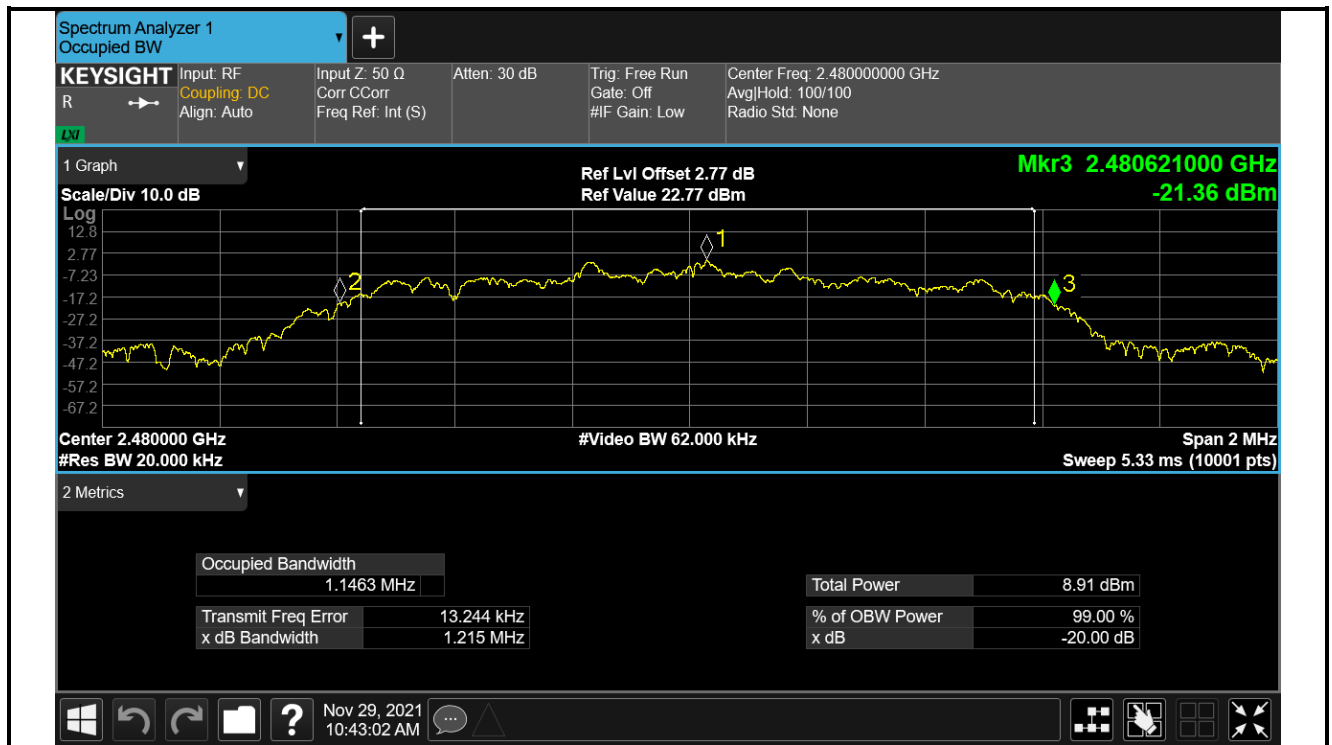
-20dB Bandwidth NVHT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVHT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVHT 3-DH1 2480MHz Ant1

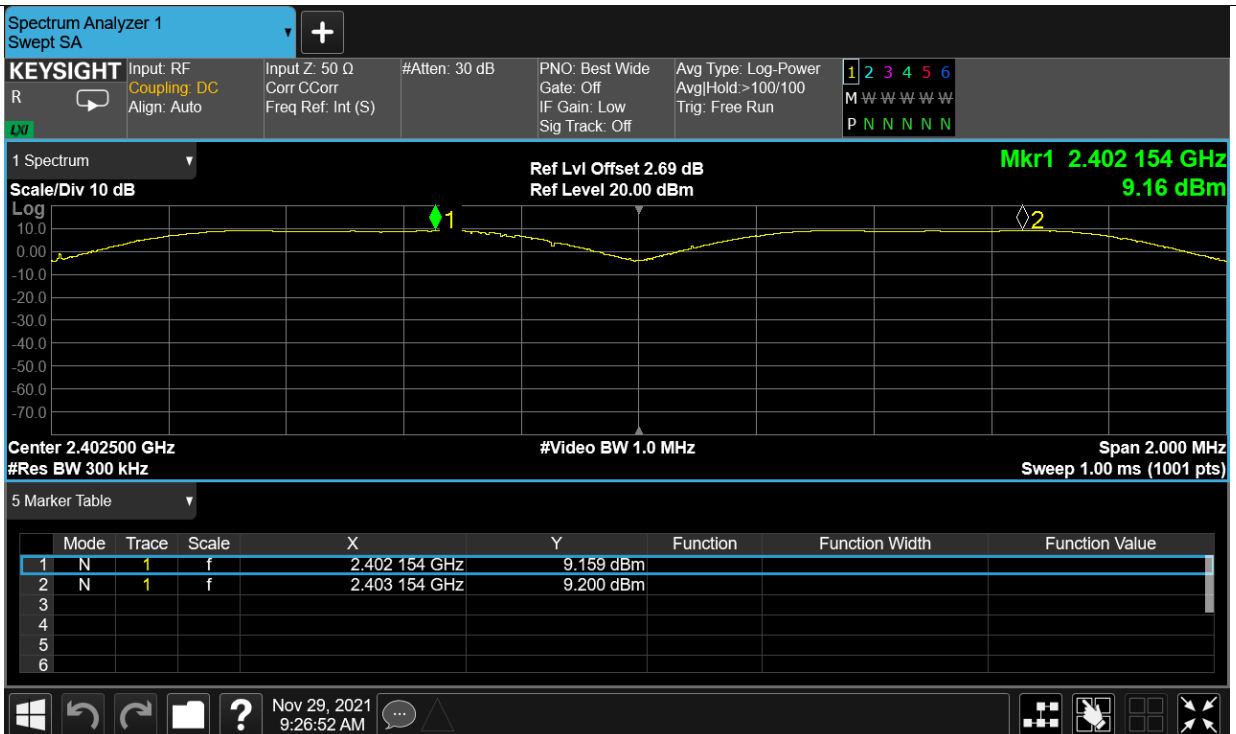


A.3 Carrier Frequencies Separation

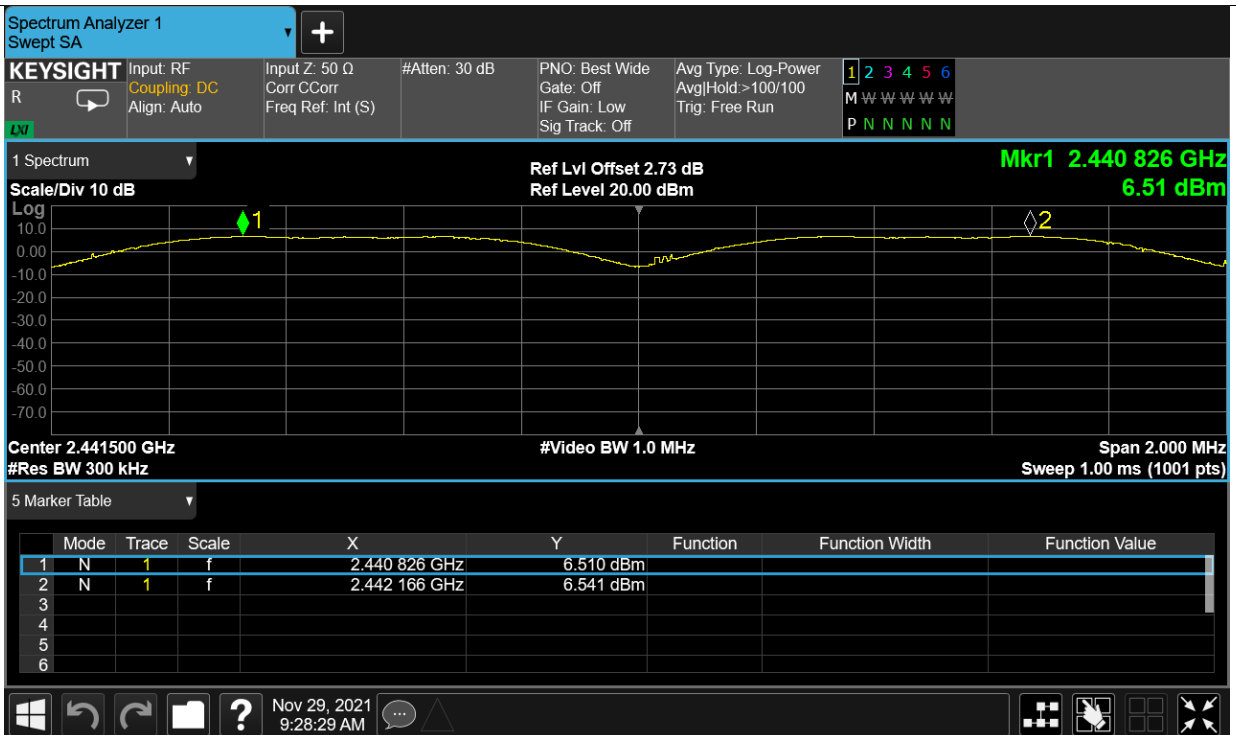
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVHT	1-DH1	Ant1	2402.154	2403.154	1	0.025	Pass
NVHT	1-DH1	Ant1	2440.826	2442.166	1.34	0.025	Pass
NVHT	1-DH1	Ant1	2478.844	2479.826	0.982	0.025	Pass
NVHT	2-DH1	Ant1	2402.008	2403	0.992	0.025	Pass
NVHT	2-DH1	Ant1	2441.006	2442.154	1.148	0.025	Pass
NVHT	2-DH1	Ant1	2478.836	2480.002	1.166	0.025	Pass
NVHT	3-DH1	Ant1	2401.992	2403.156	1.164	0.025	Pass
NVHT	3-DH1	Ant1	2441.172	2441.85	0.678	0.025	Pass
NVHT	3-DH1	Ant1	2479.158	2479.842	0.684	0.025	Pass

Test Graphs

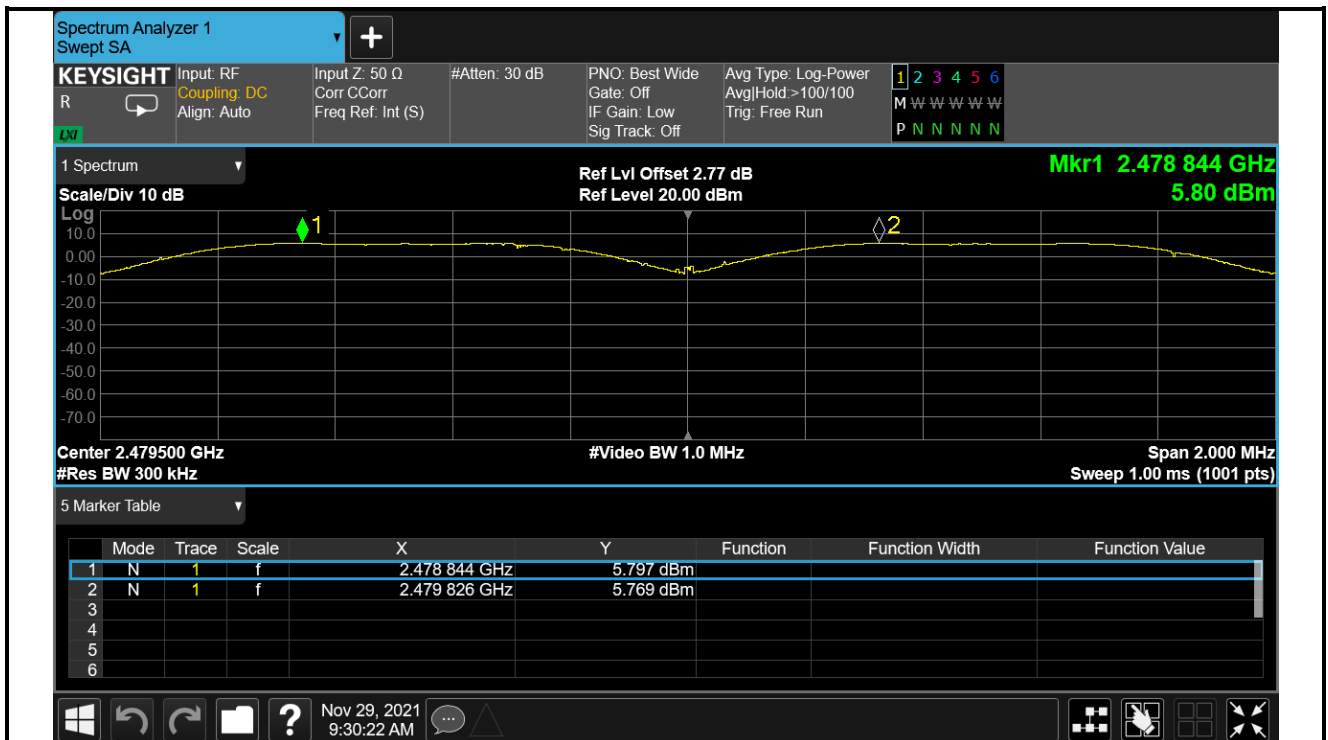
CFS NVHT 1-DH1 2402MHz Ant1



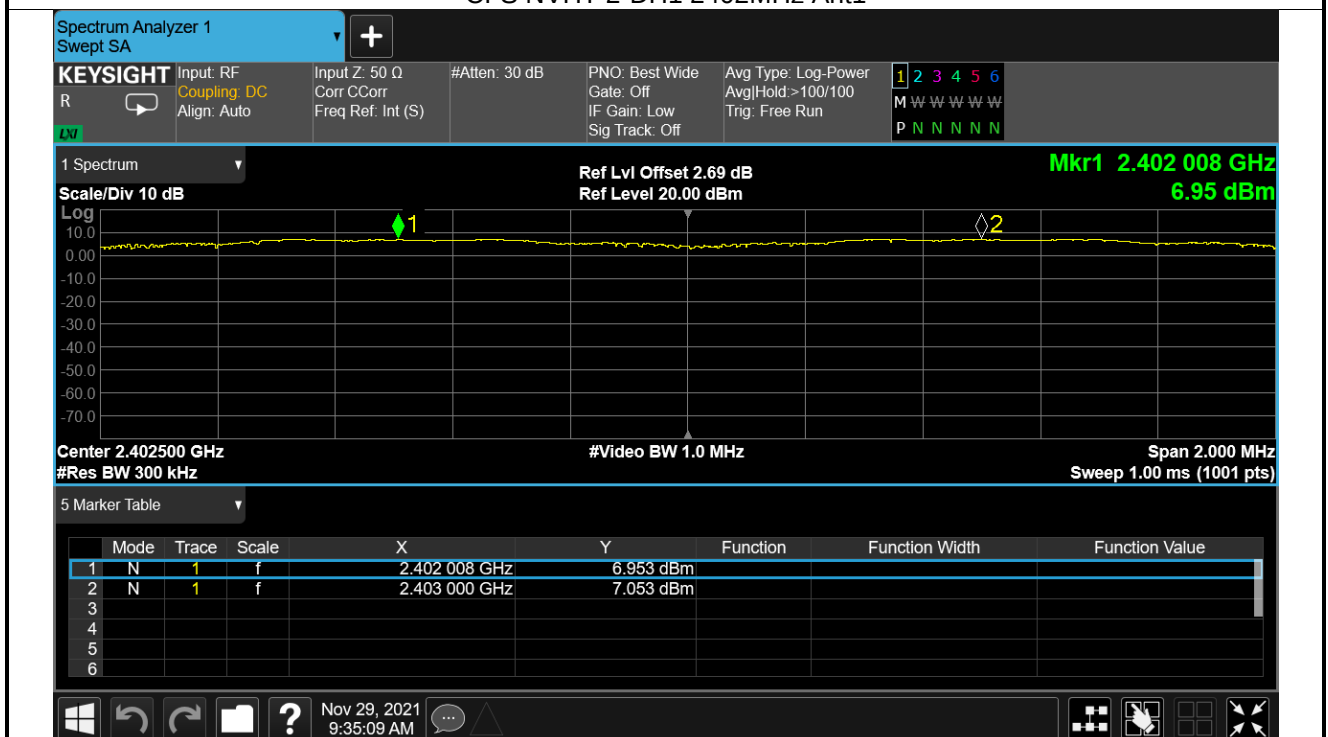
CFS NVHT 1-DH1 2441MHz Ant1



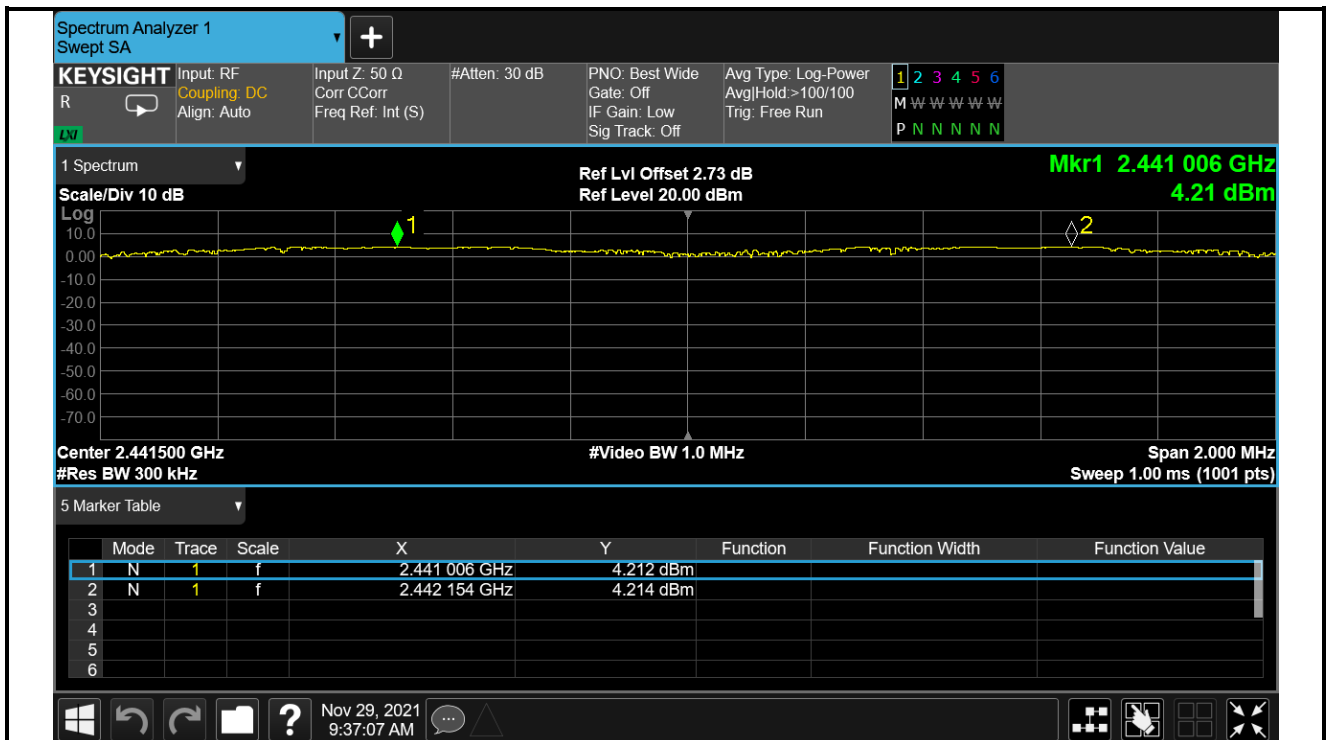
CFS NVHT 1-DH1 2480MHz Ant1



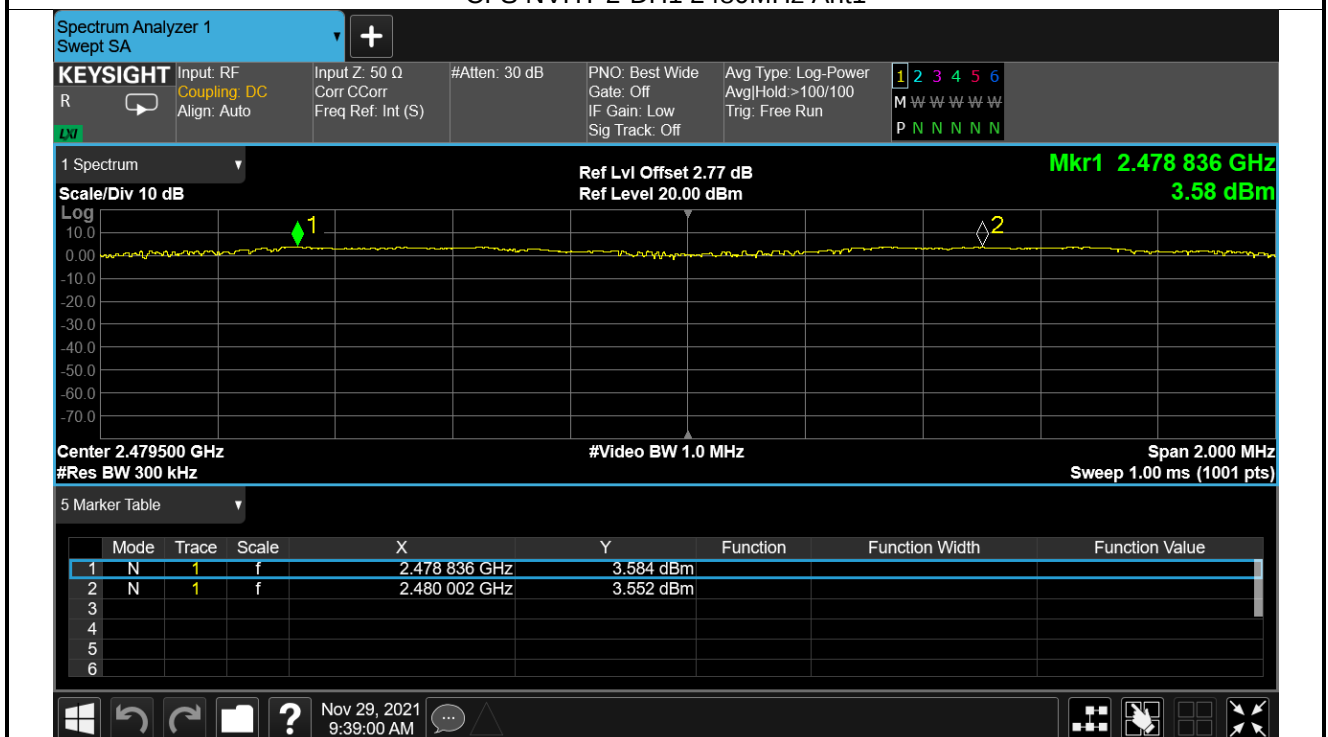
CFS NVHT 2-DH1 2402MHz Ant1



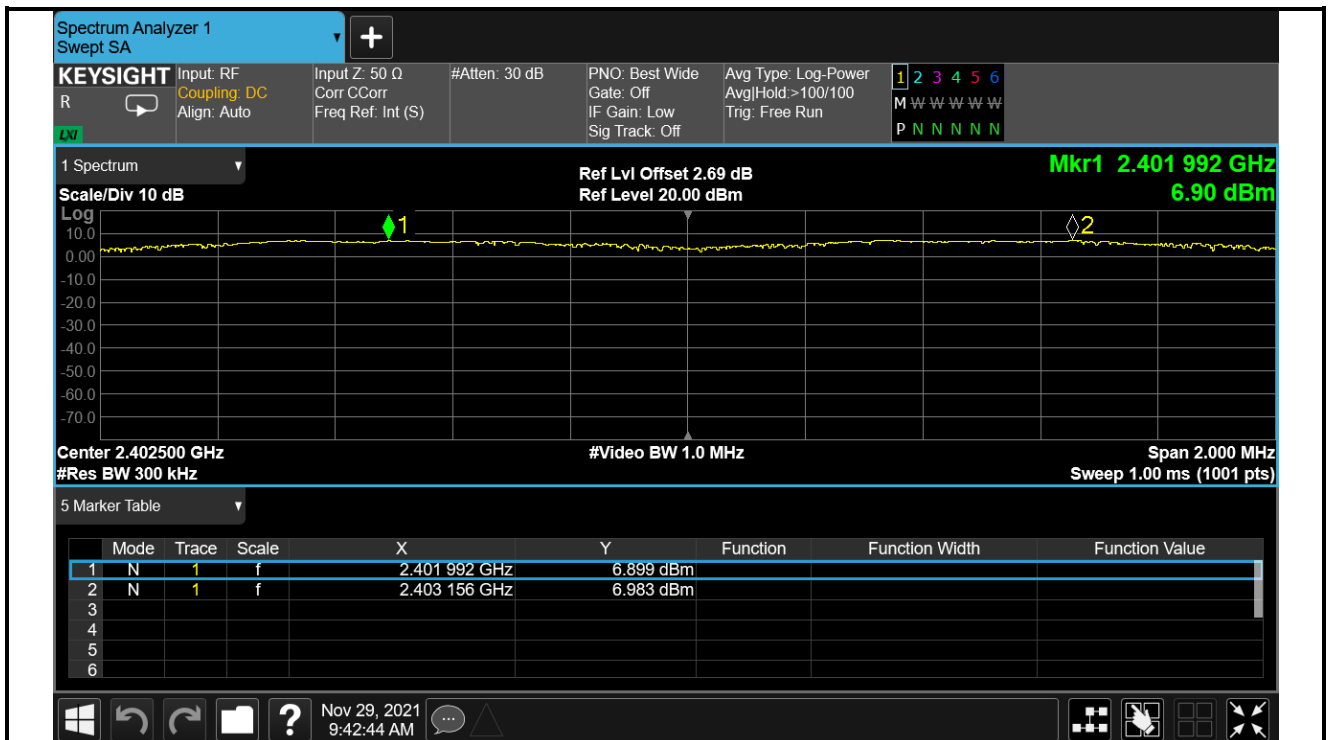
CFS NVHT 2-DH1 2441MHz Ant1



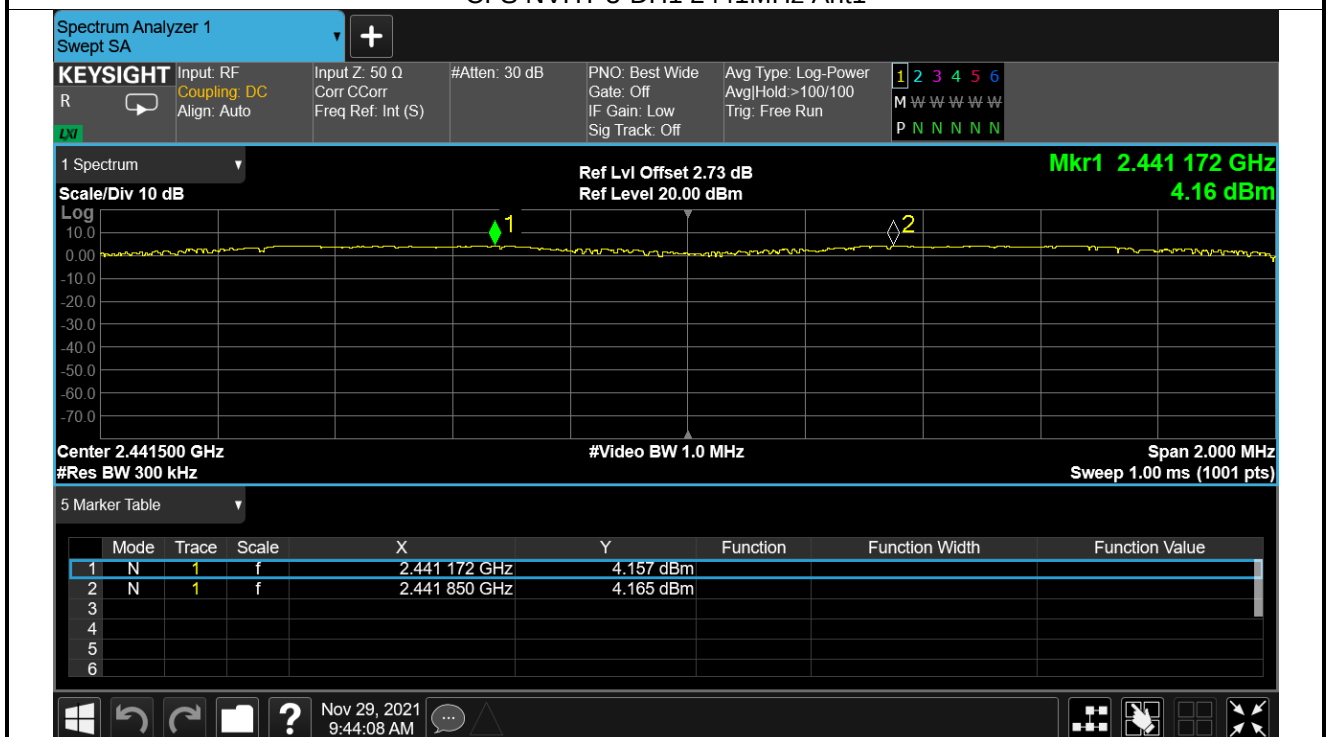
CFS NVHT 2-DH1 2480MHz Ant1



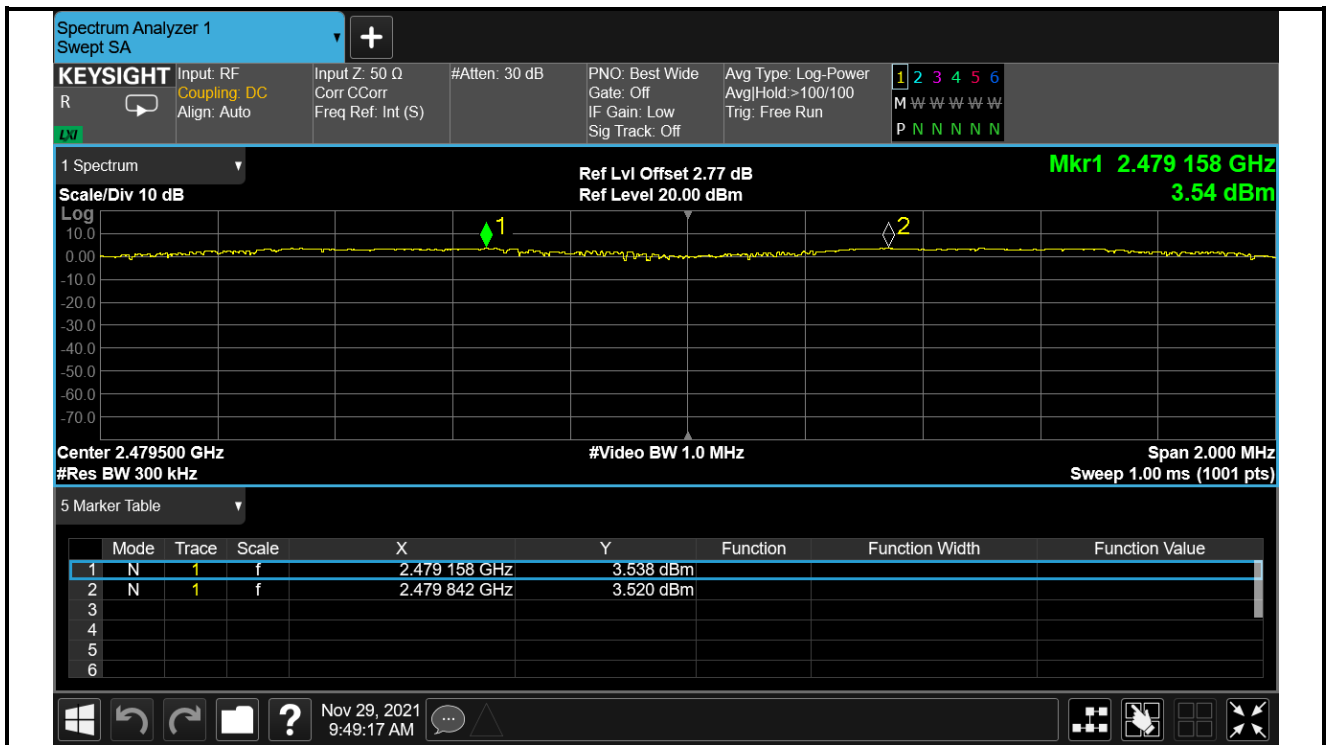
CFS NVHT 3-DH1 2402MHz Ant1



CFS NVHT 3-DH1 2441MHz Ant1



CFS NVHT 3-DH1 2480MHz Ant1

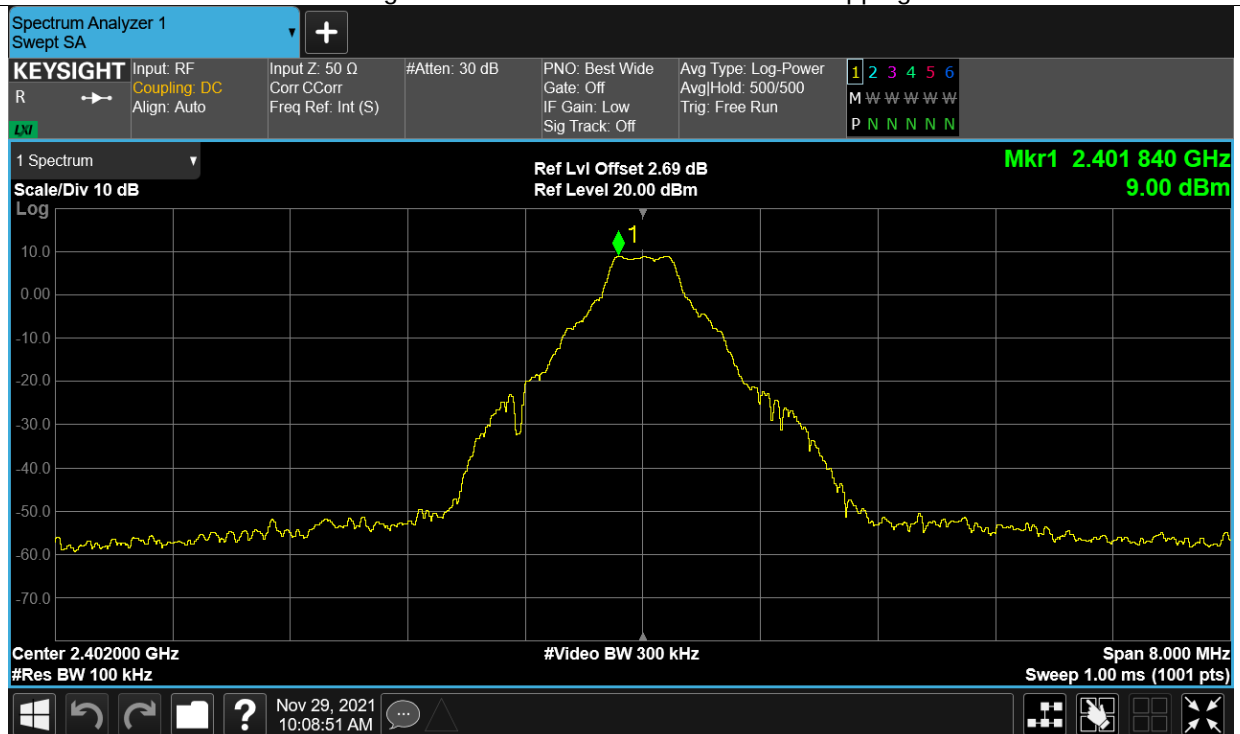


A.4 Band Edge

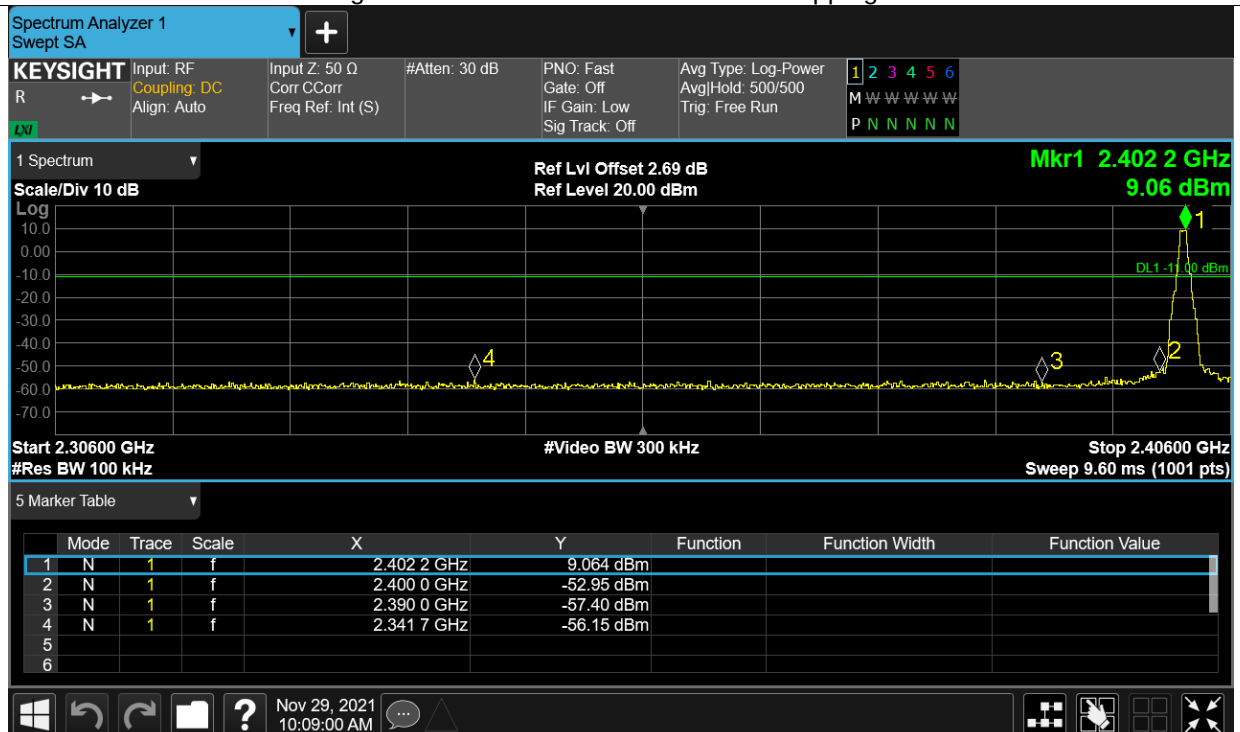
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVHT	1-DH1	2402	Ant1	No-Hopping	-65.16	-20	Pass
NVHT	1-DH1	2480	Ant1	No-Hopping	-58.87	-20	Pass
NVHT	2-DH1	2402	Ant1	No-Hopping	-62.67	-20	Pass
NVHT	2-DH1	2480	Ant1	No-Hopping	-59.48	-20	Pass
NVHT	3-DH1	2402	Ant1	No-Hopping	-63.26	-20	Pass
NVHT	3-DH1	2480	Ant1	No-Hopping	-58.39	-20	Pass

Test Graphs

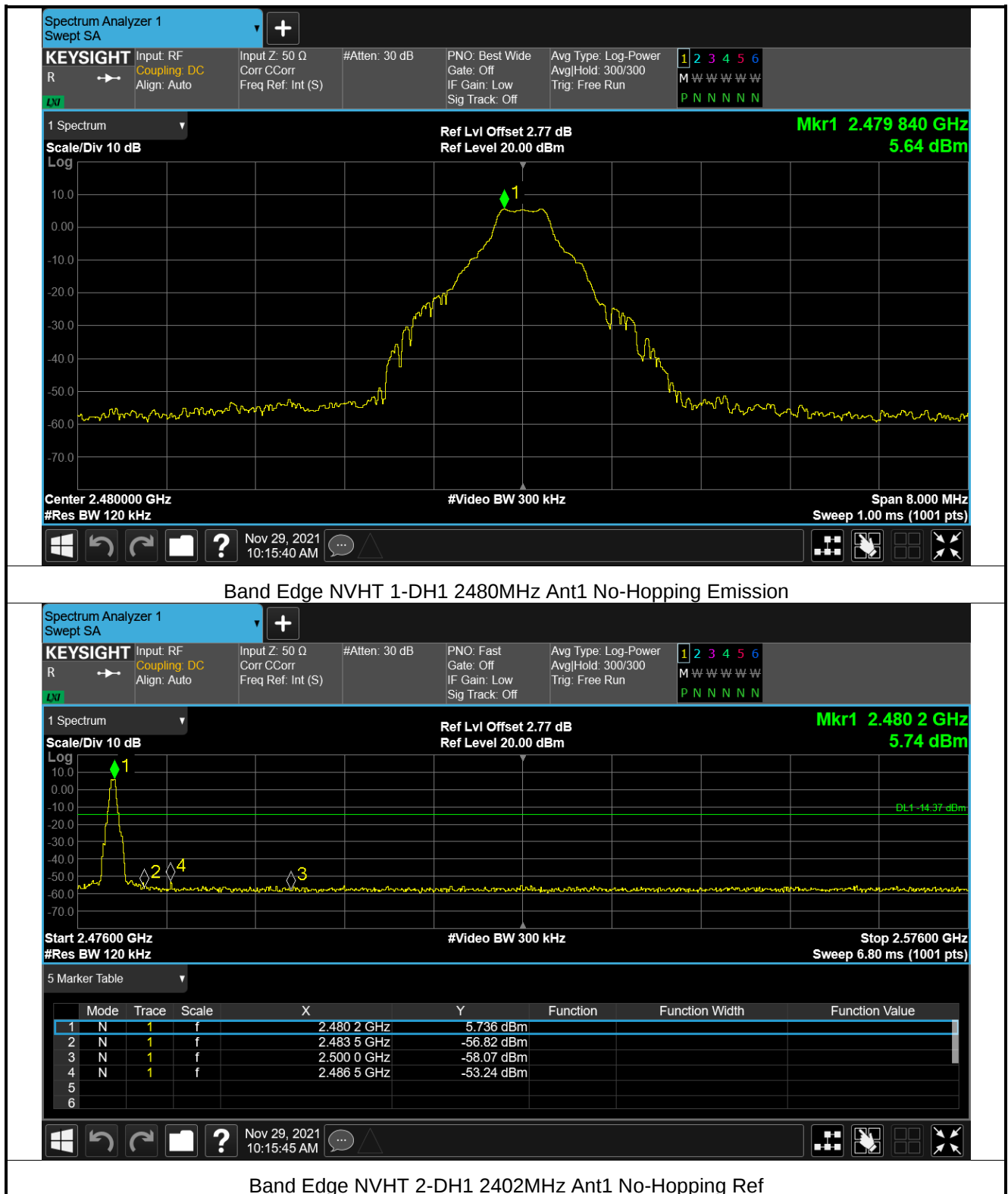
Band Edge NVHT 1-DH1 2402MHz Ant1 No-Hopping Ref

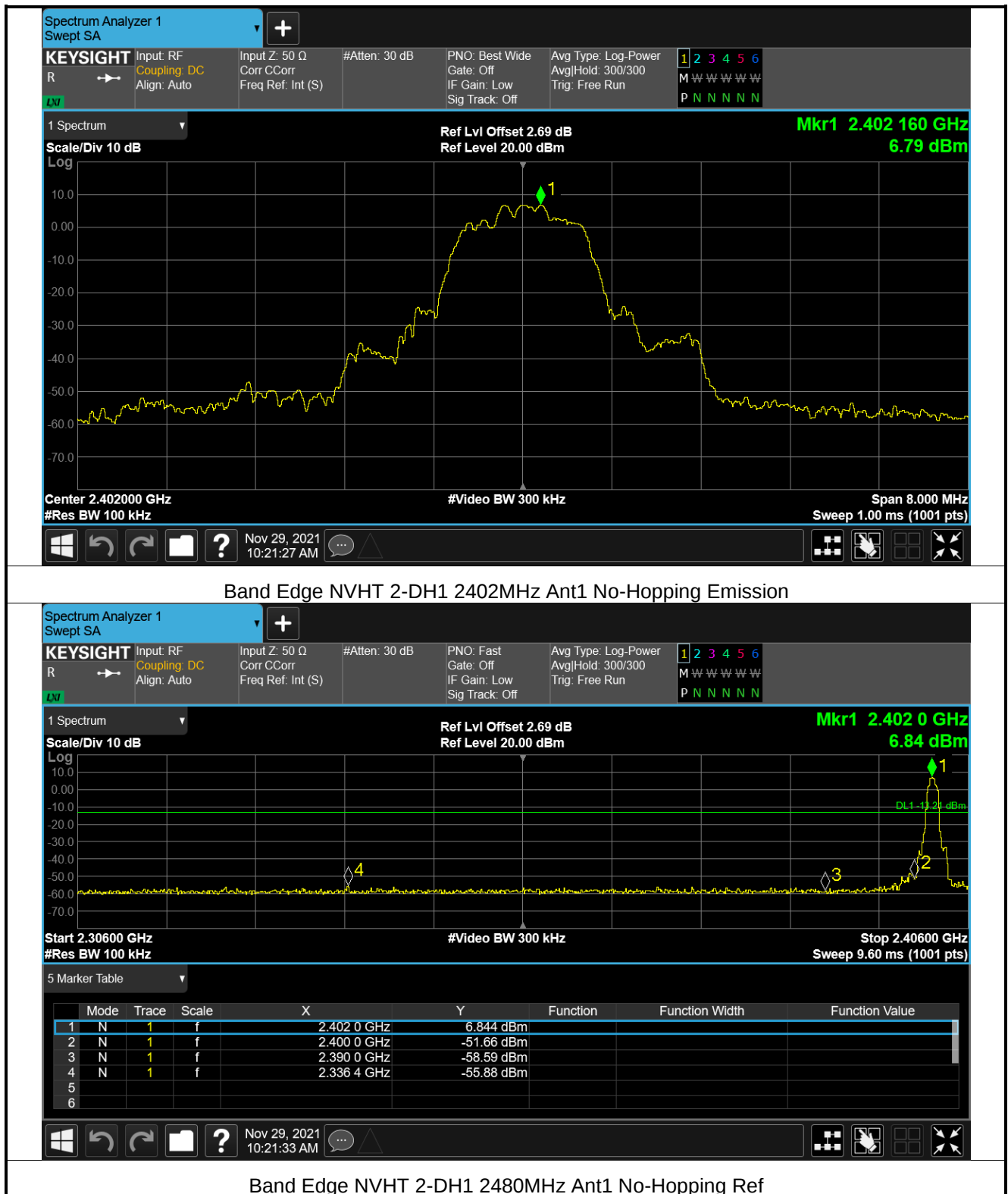


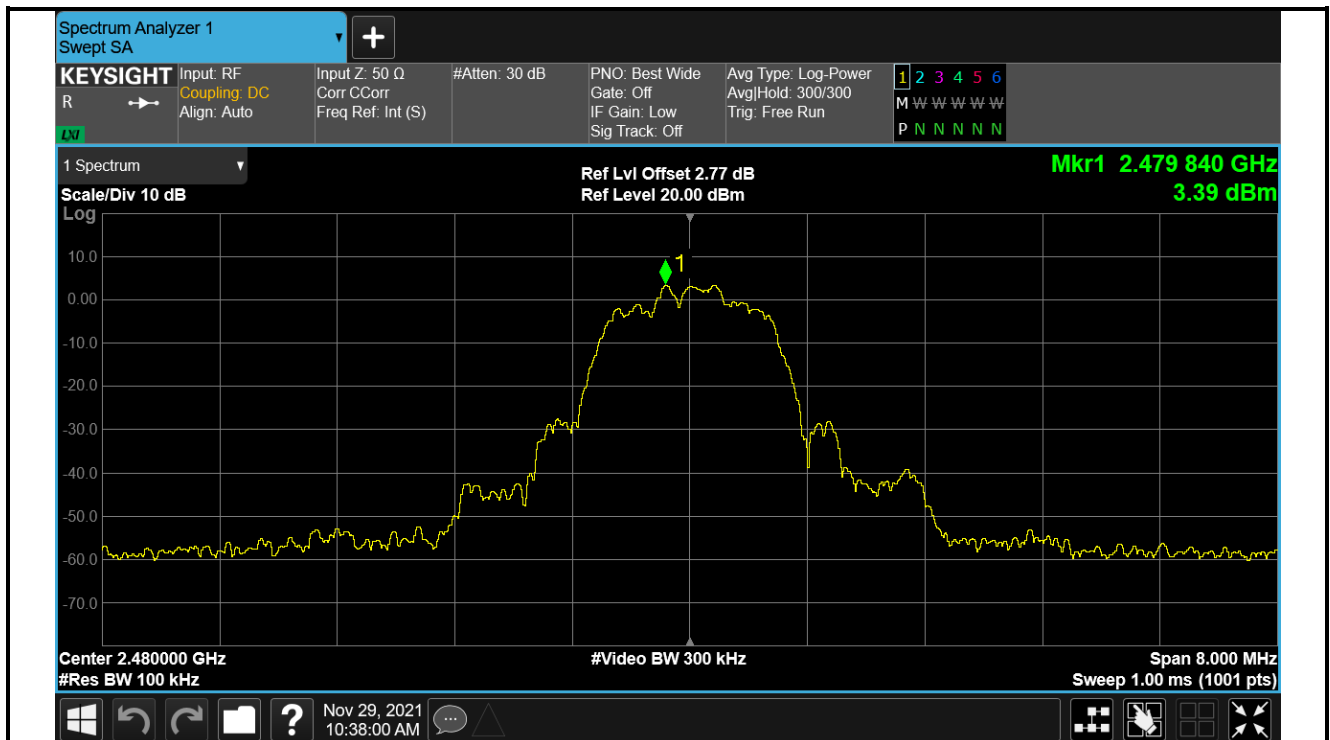
Band Edge NVHT 1-DH1 2402MHz Ant1 No-Hopping Emission



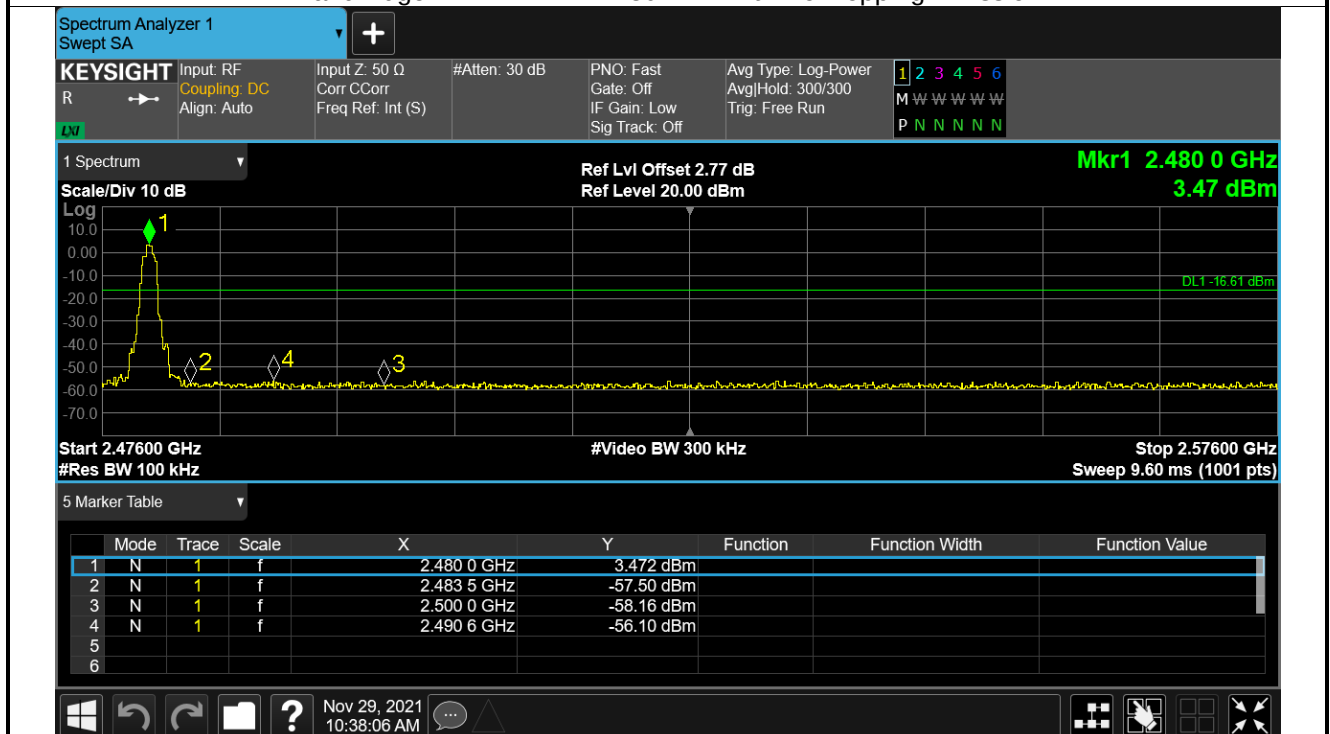
Band Edge NVHT 1-DH1 2480MHz Ant1 No-Hopping Ref



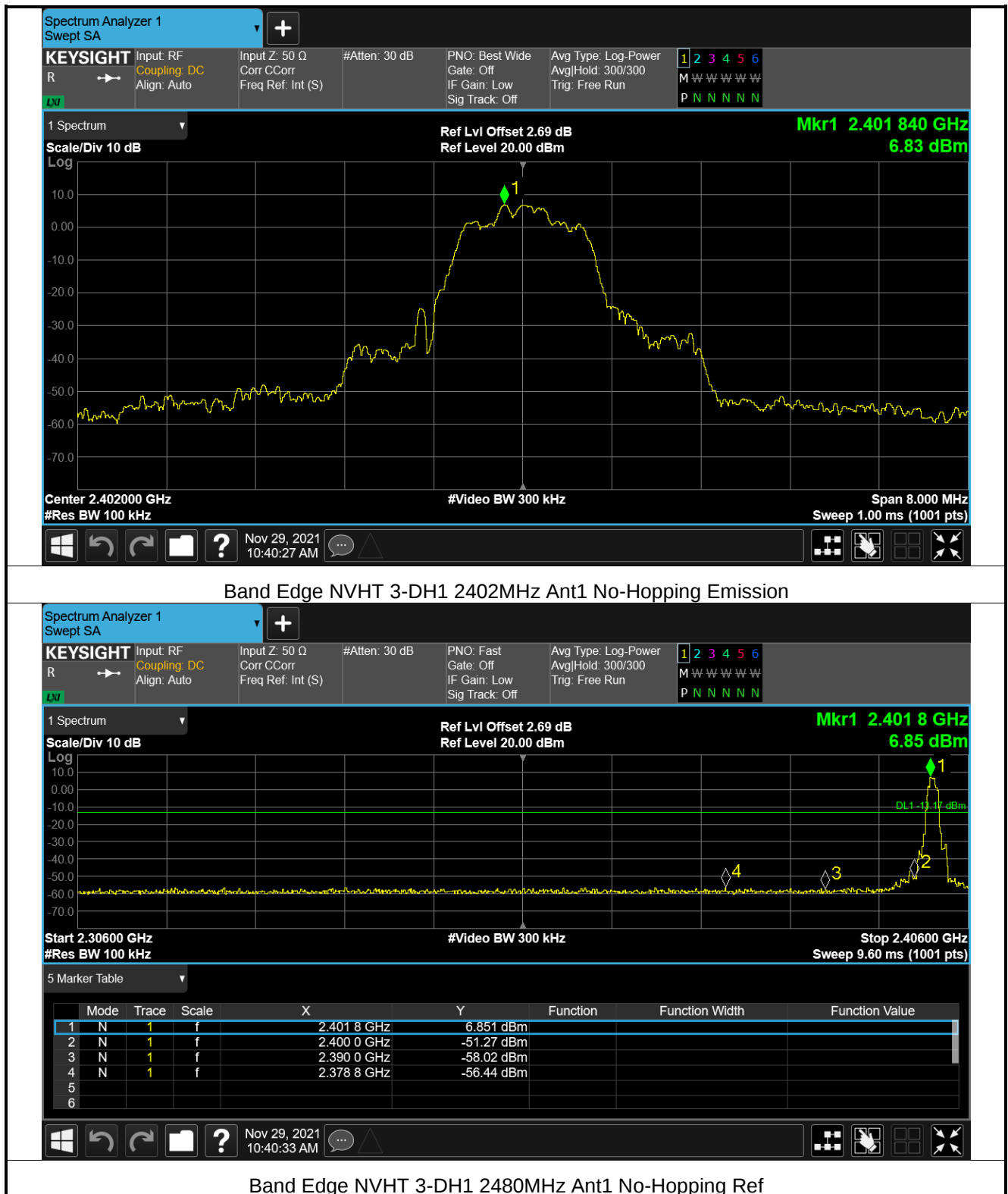


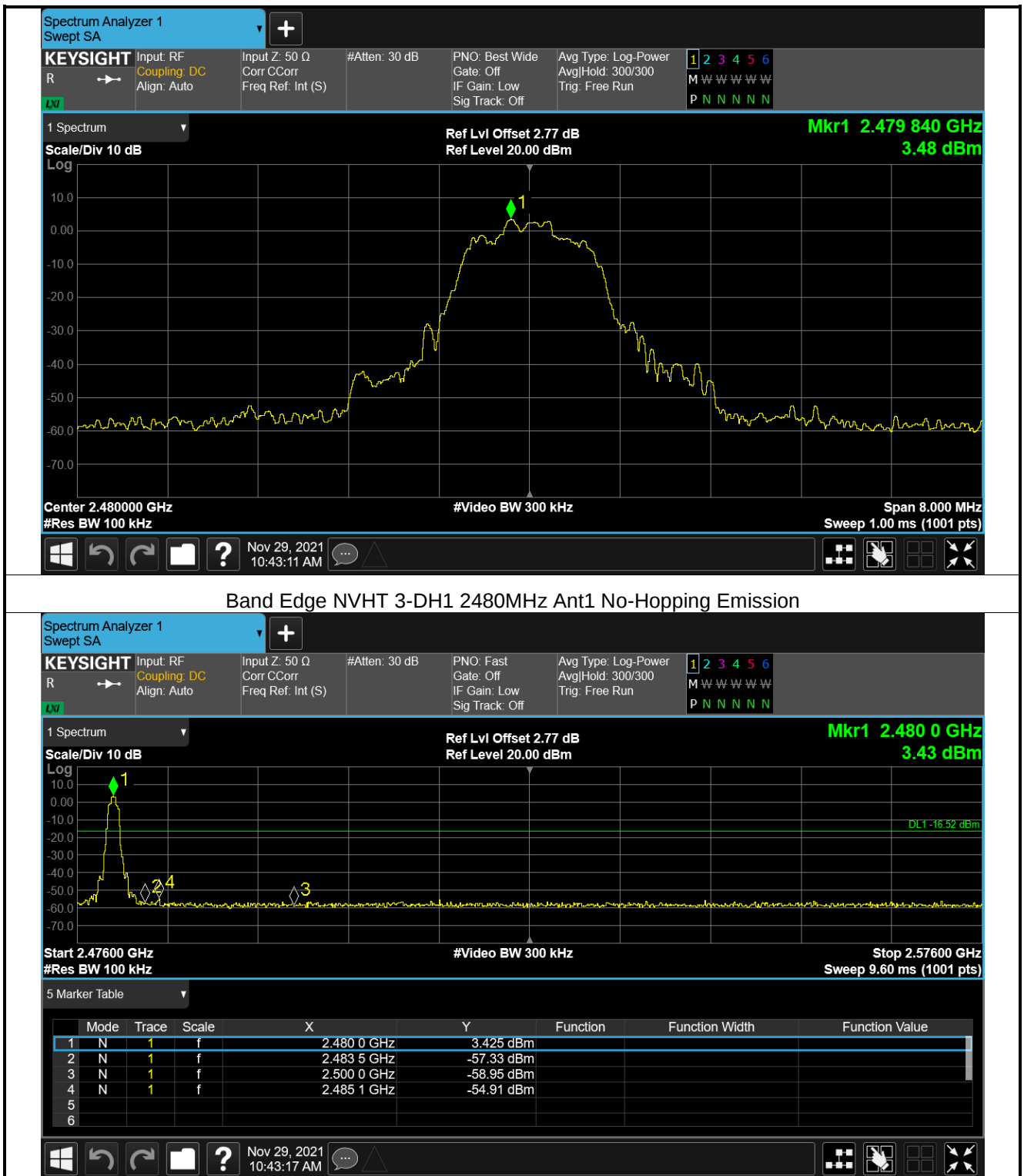


Band Edge NVHT 2-DH1 2480MHz Ant1 No-Hopping Emission



Band Edge NVHT 3-DH1 2402MHz Ant1 No-Hopping Ref



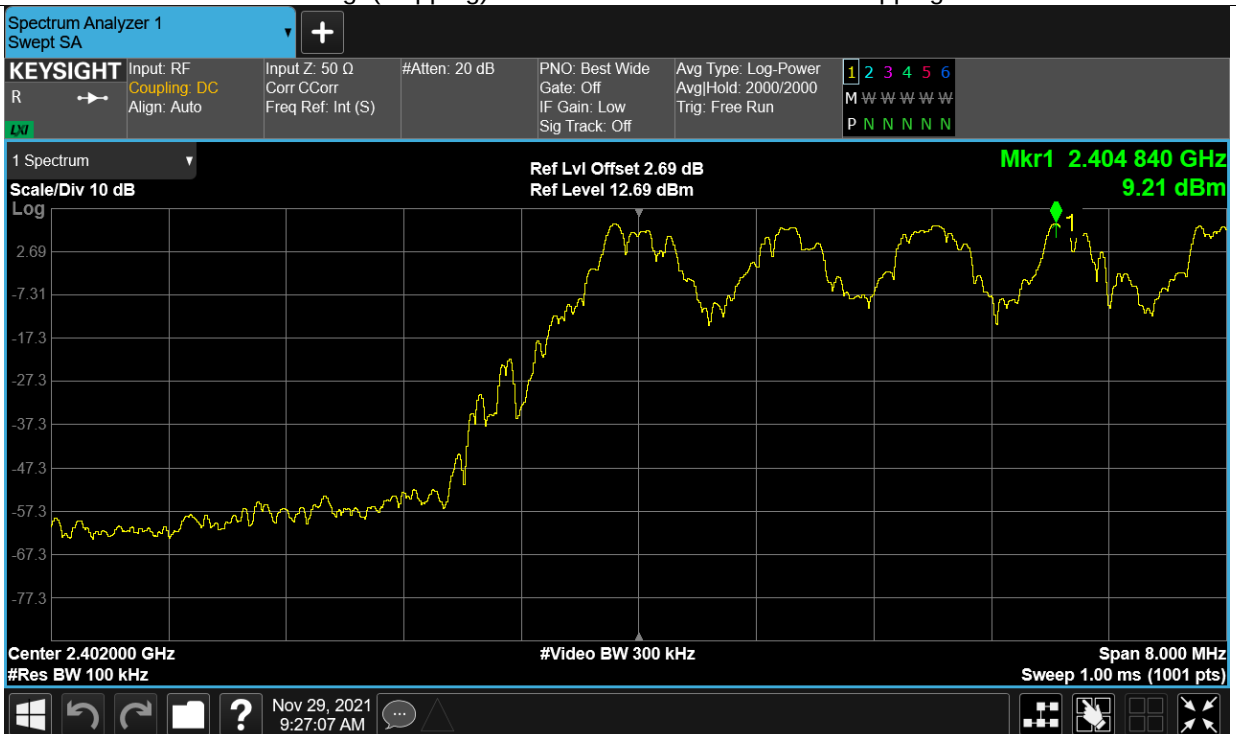


A.5 Band Edge (Hopping)

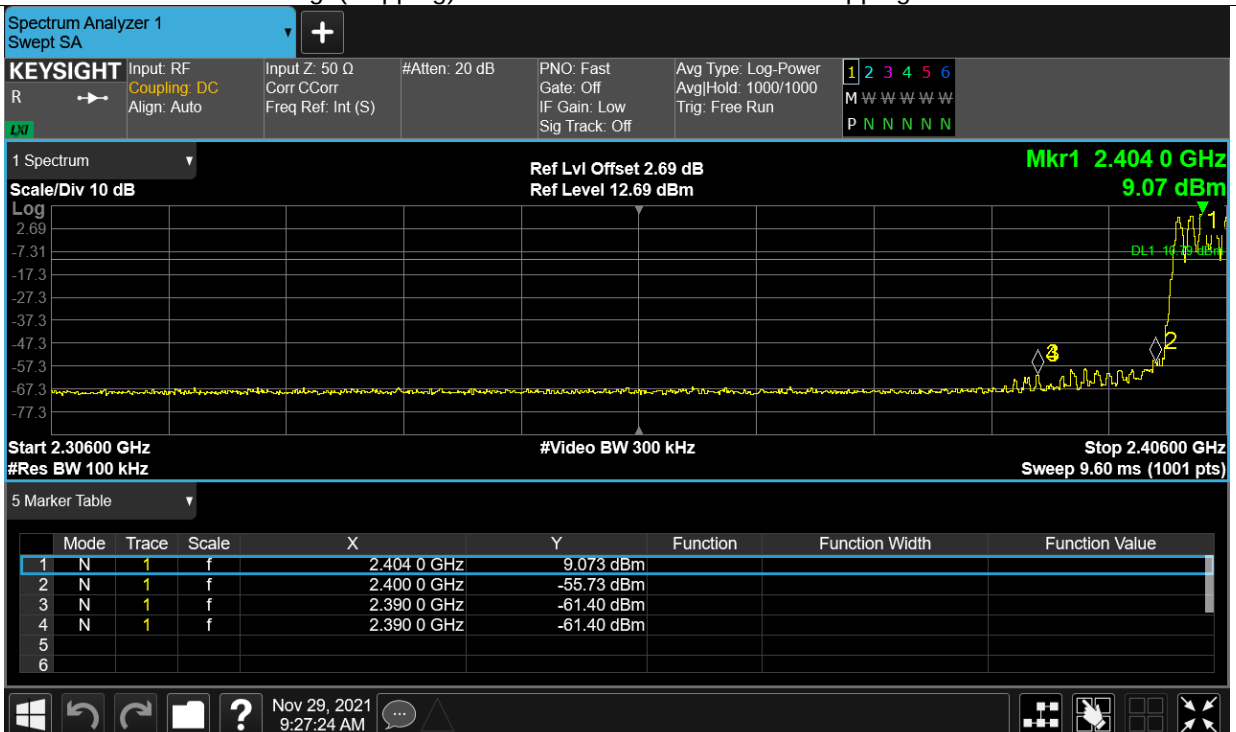
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVHT	1-DH1	2402	Ant1	Hopping	-70.61	-20	Pass
NVHT	1-DH1	2480	Ant1	Hopping	-60.92	-20	Pass
NVHT	2-DH1	2402	Ant1	Hopping	-62.48	-20	Pass
NVHT	2-DH1	2480	Ant1	Hopping	-59.74	-20	Pass
NVHT	3-DH1	2402	Ant1	Hopping	-62.45	-20	Pass
NVHT	3-DH1	2480	Ant1	Hopping	-58.59	-20	Pass

Test Graphs

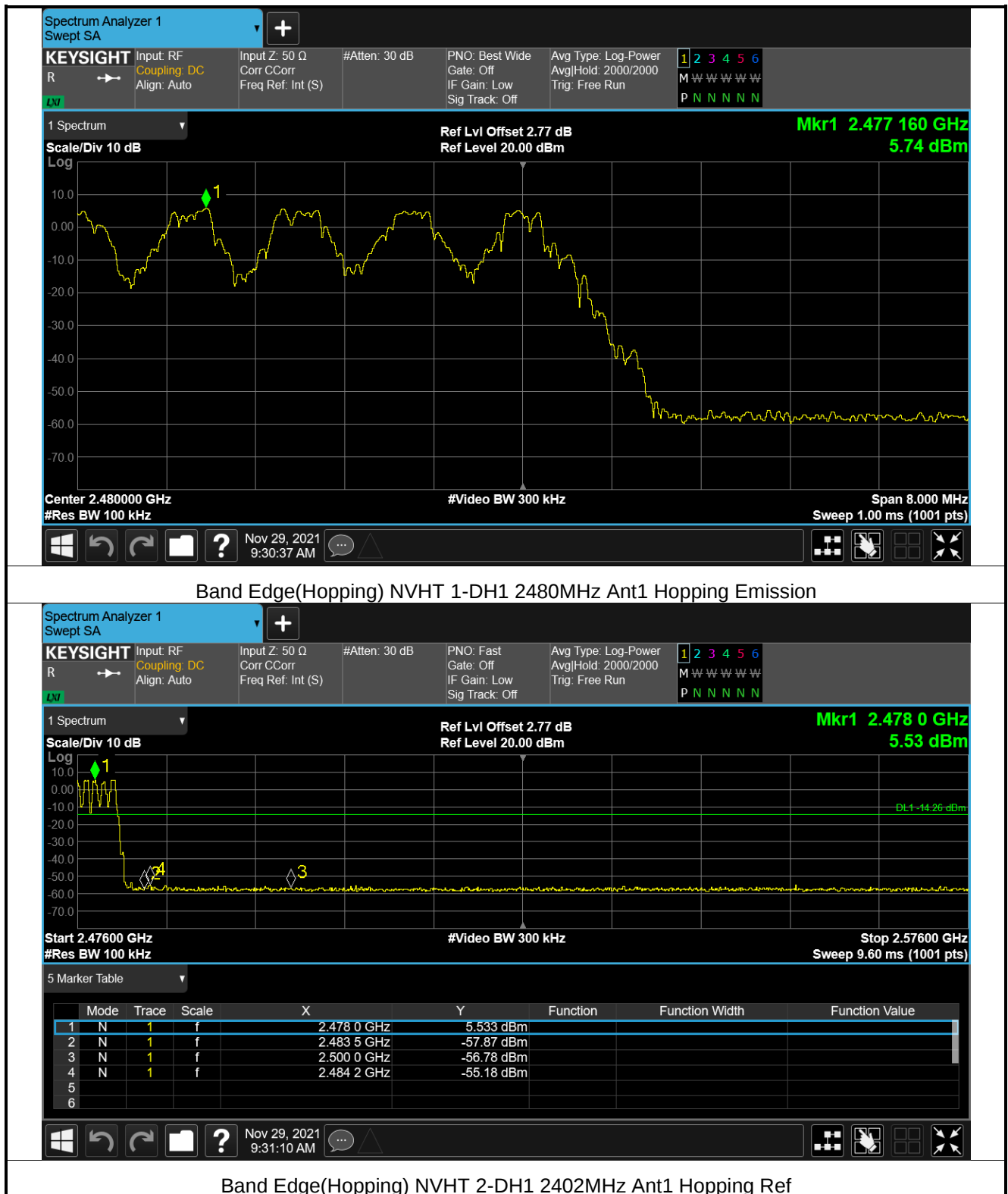
Band Edge(Hopping) NVHT 1-DH1 2402MHz Ant1 Hopping Ref

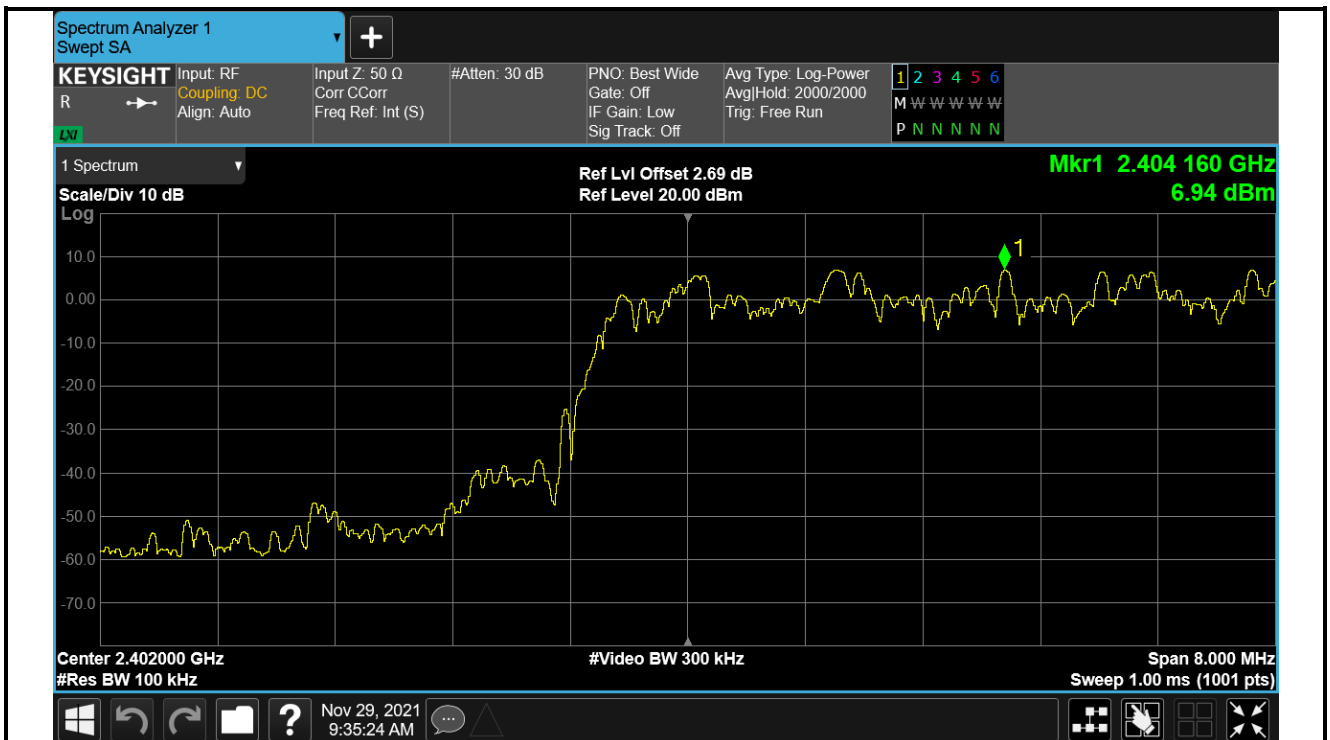


Band Edge(Hopping) NVHT 1-DH1 2402MHz Ant1 Hopping Emission

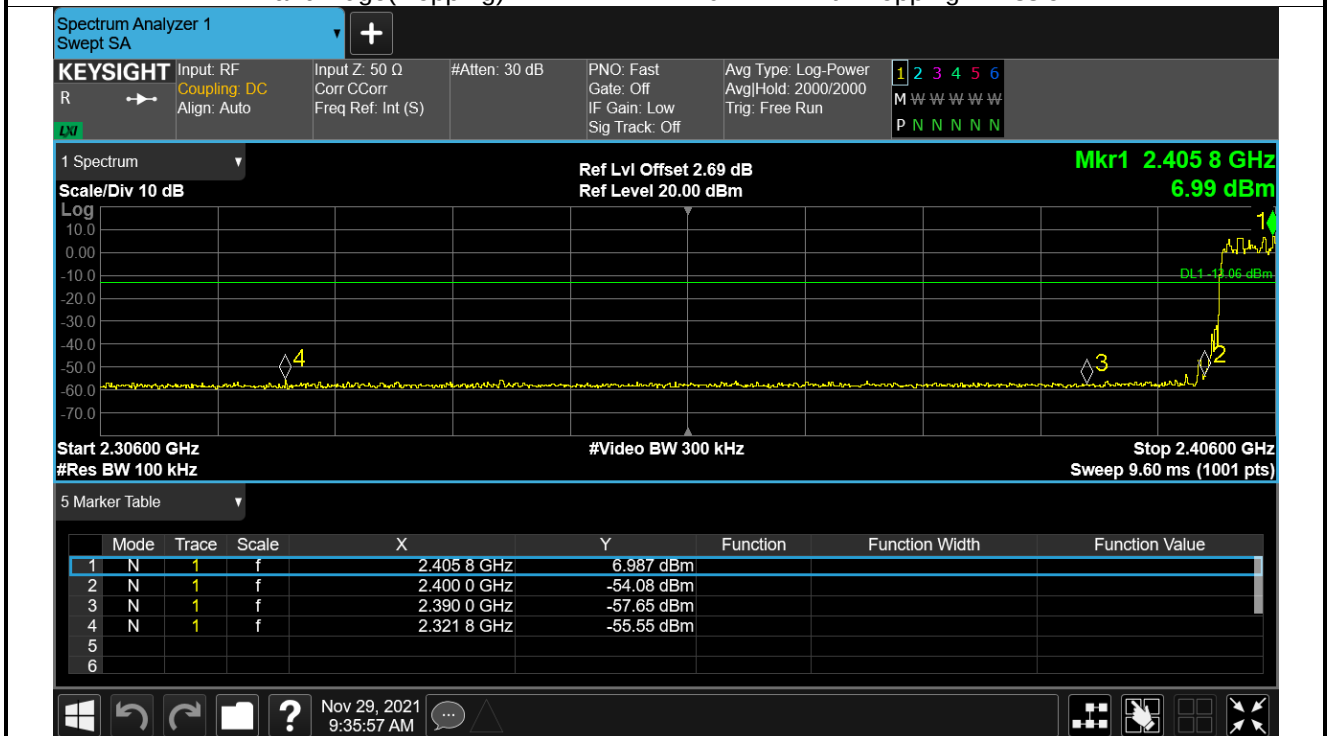


Band Edge(Hopping) NVHT 1-DH1 2480MHz Ant1 Hopping Ref

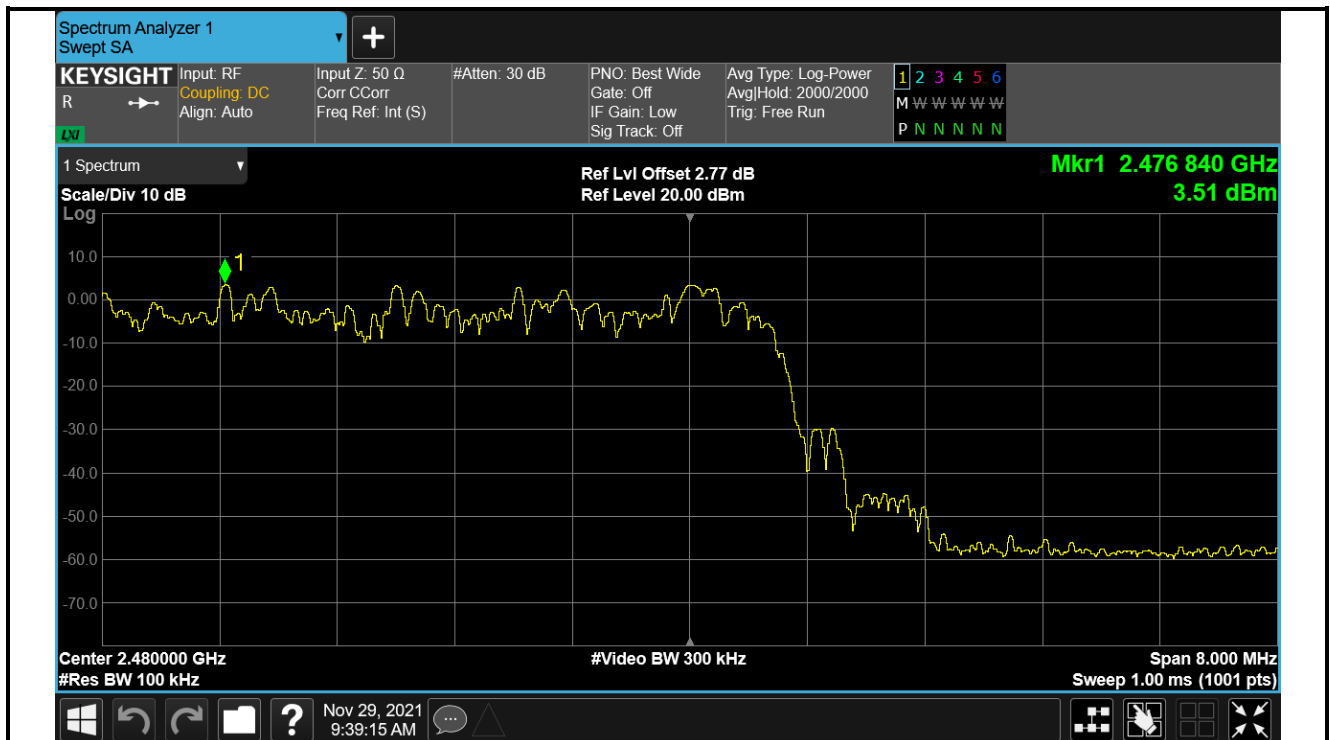




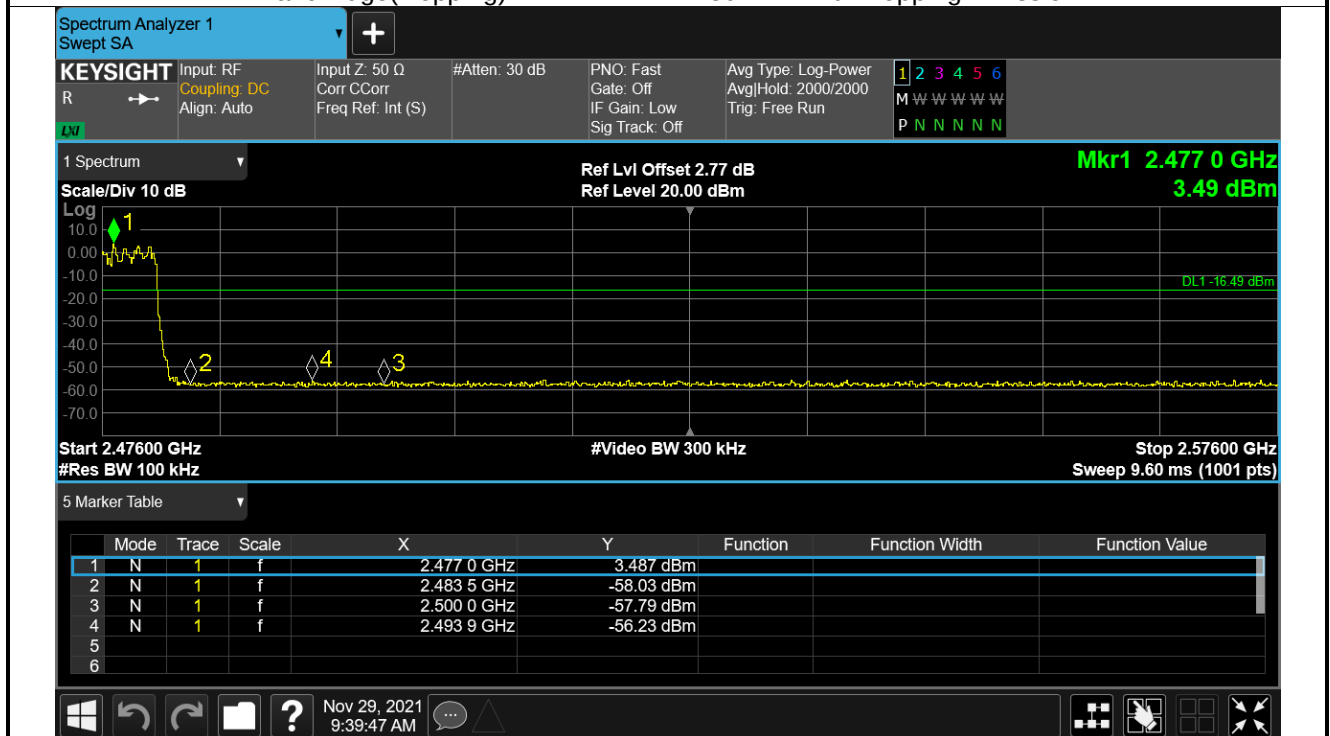
Band Edge(Hopping) NVHT 2-DH1 2402MHz Ant1 Hopping Emission



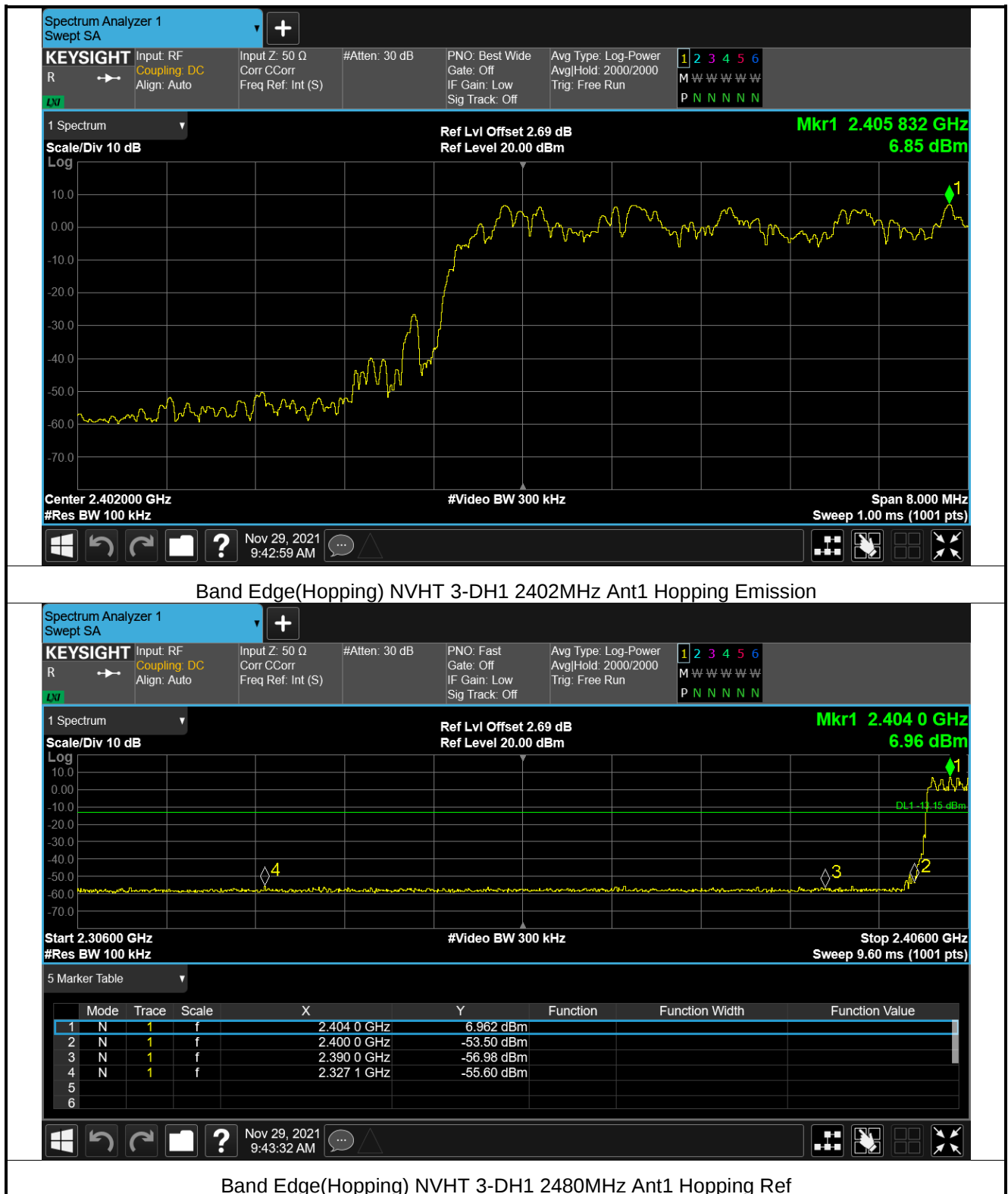
Band Edge(Hopping) NVHT 2-DH1 2480MHz Ant1 Hopping Ref

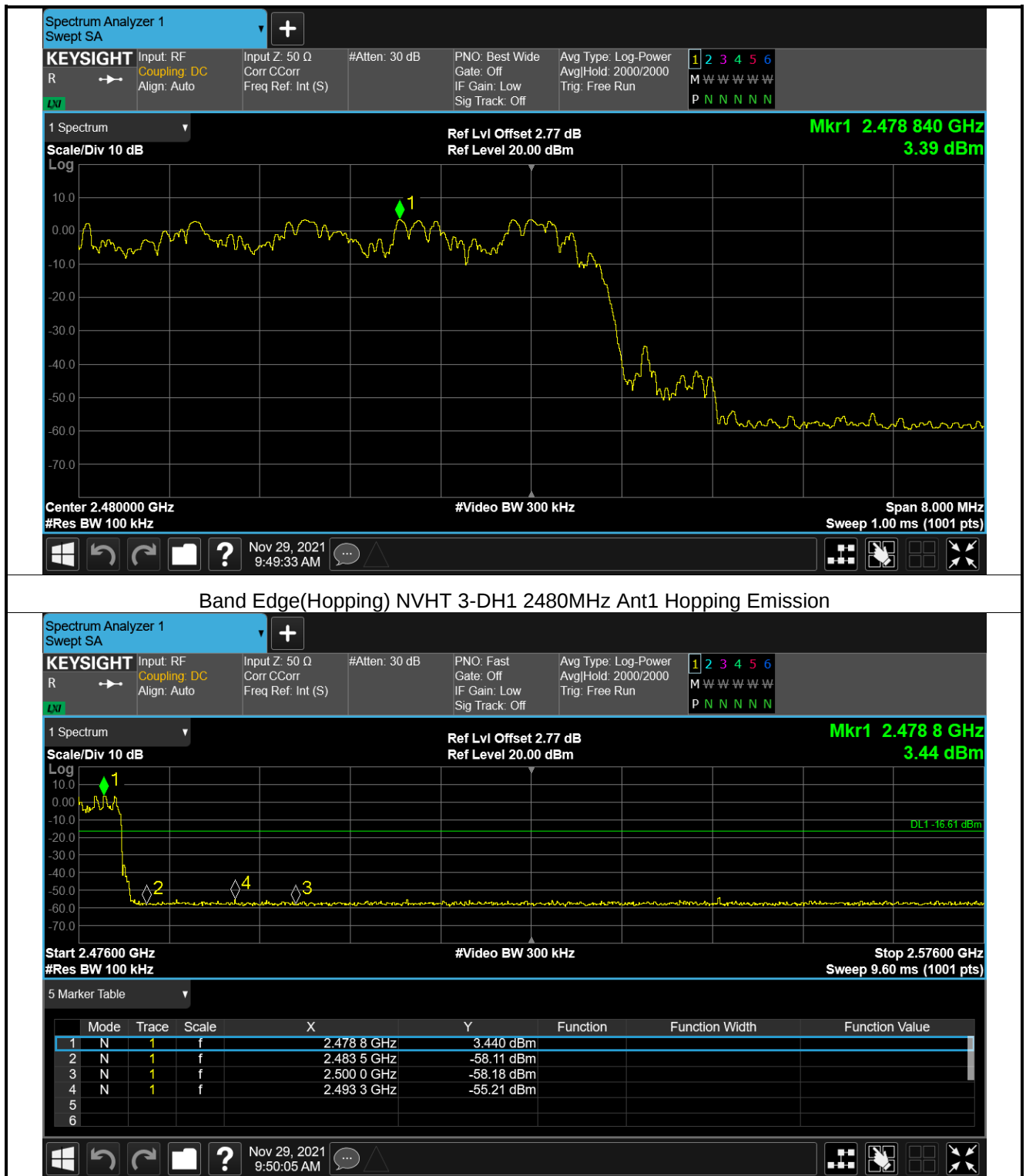


Band Edge(Hopping) NVHT 2-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVHT 3-DH1 2402MHz Ant1 Hopping Ref



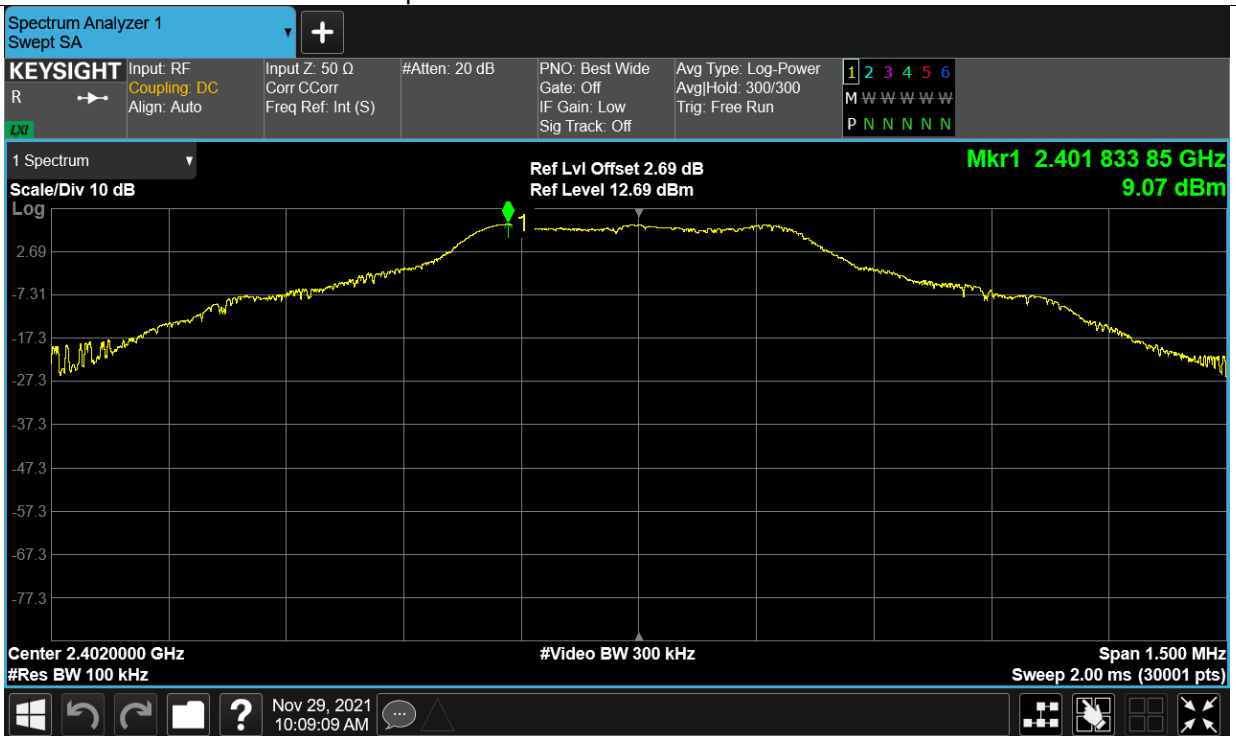


A.6 Conducted RF Spurious Emission

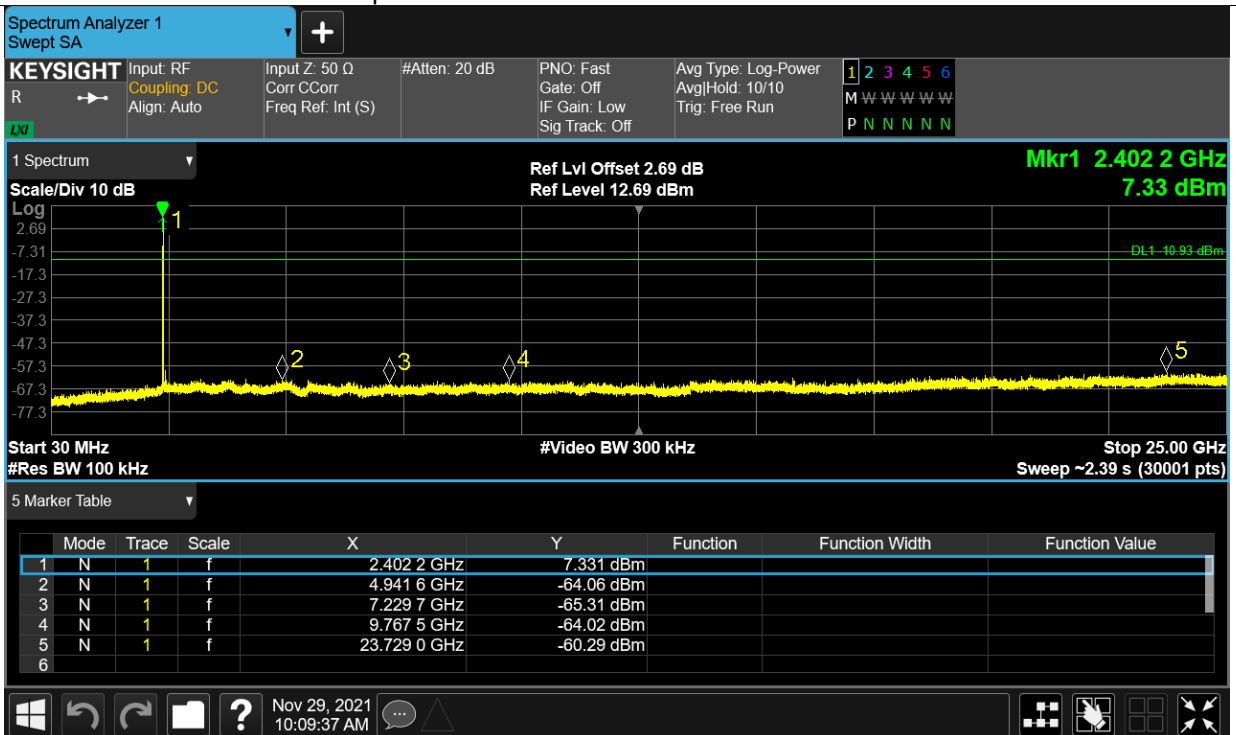
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVHT	1-DH1	2402	Ant1	-69.35	-20	Pass
NVHT	1-DH1	2441	Ant1	-66.73	-20	Pass
NVHT	1-DH1	2480	Ant1	-65.52	-20	Pass
NVHT	2-DH1	2402	Ant1	-66.86	-20	Pass
NVHT	2-DH1	2441	Ant1	-54.96	-20	Pass
NVHT	2-DH1	2480	Ant1	-63.21	-20	Pass
NVHT	3-DH1	2402	Ant1	-66.61	-20	Pass
NVHT	3-DH1	2441	Ant1	-63.93	-20	Pass
NVHT	3-DH1	2480	Ant1	-63.96	-20	Pass

Test Graphs

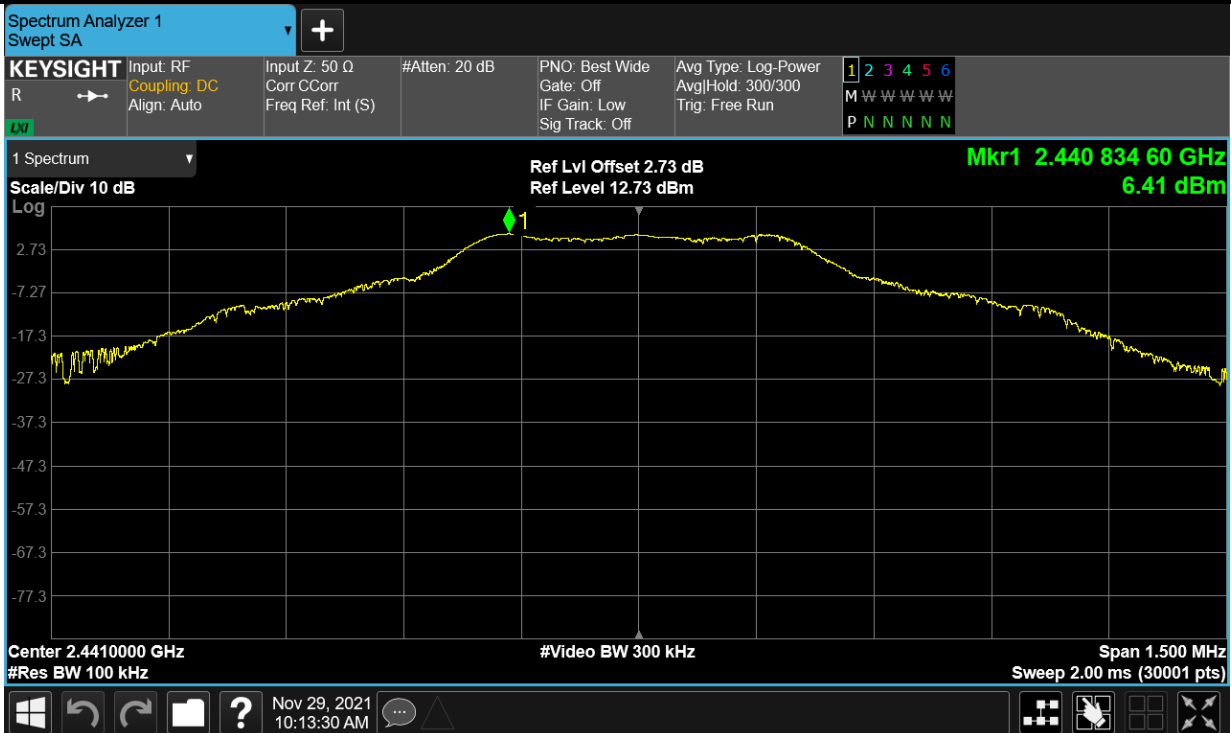
Tx. Spurious NVHT 1-DH1 2402MHz Ant1 Ref



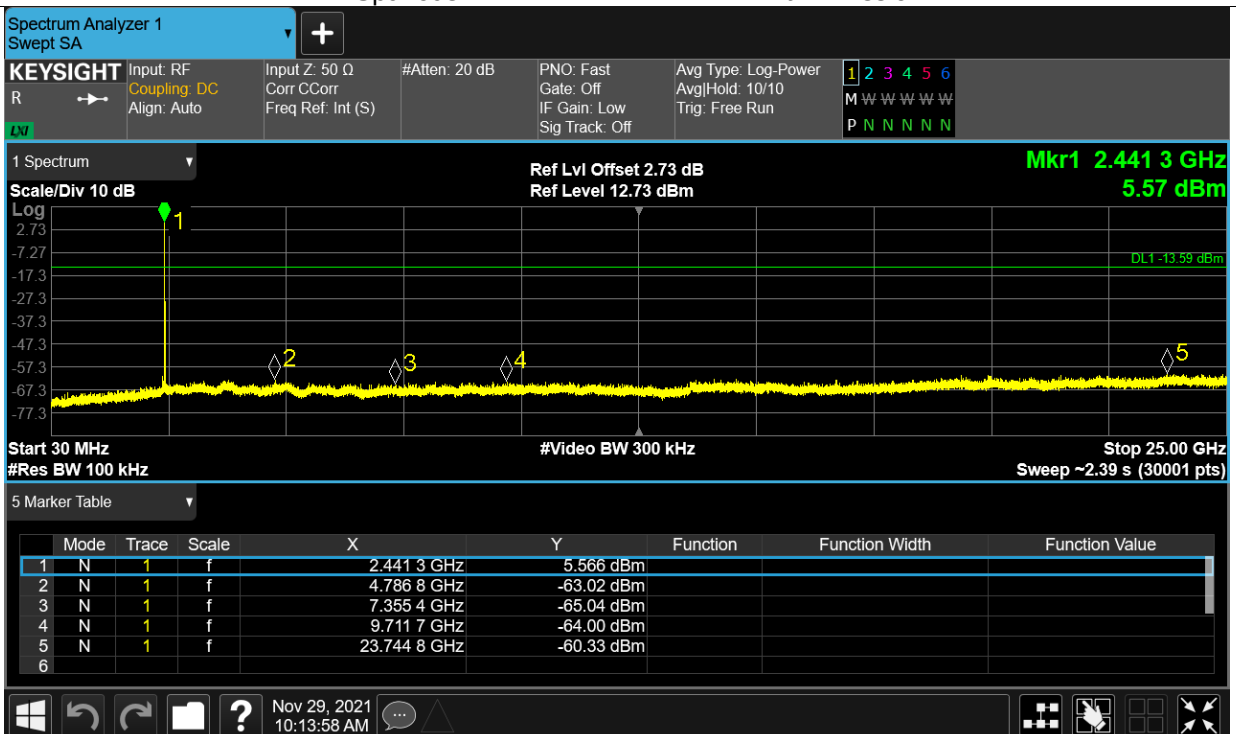
Tx. Spurious NVHT 1-DH1 2402MHz Ant1 Emission



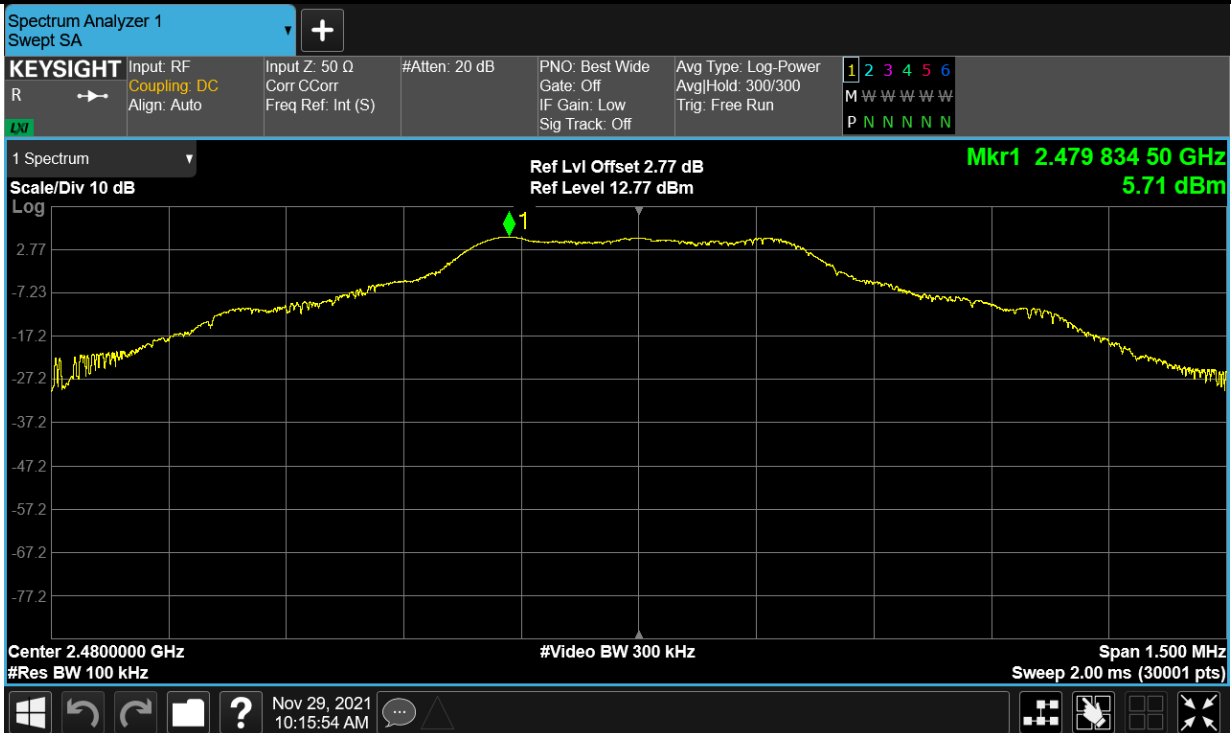
Tx. Spurious NVHT 1-DH1 2441MHz Ant1 Ref



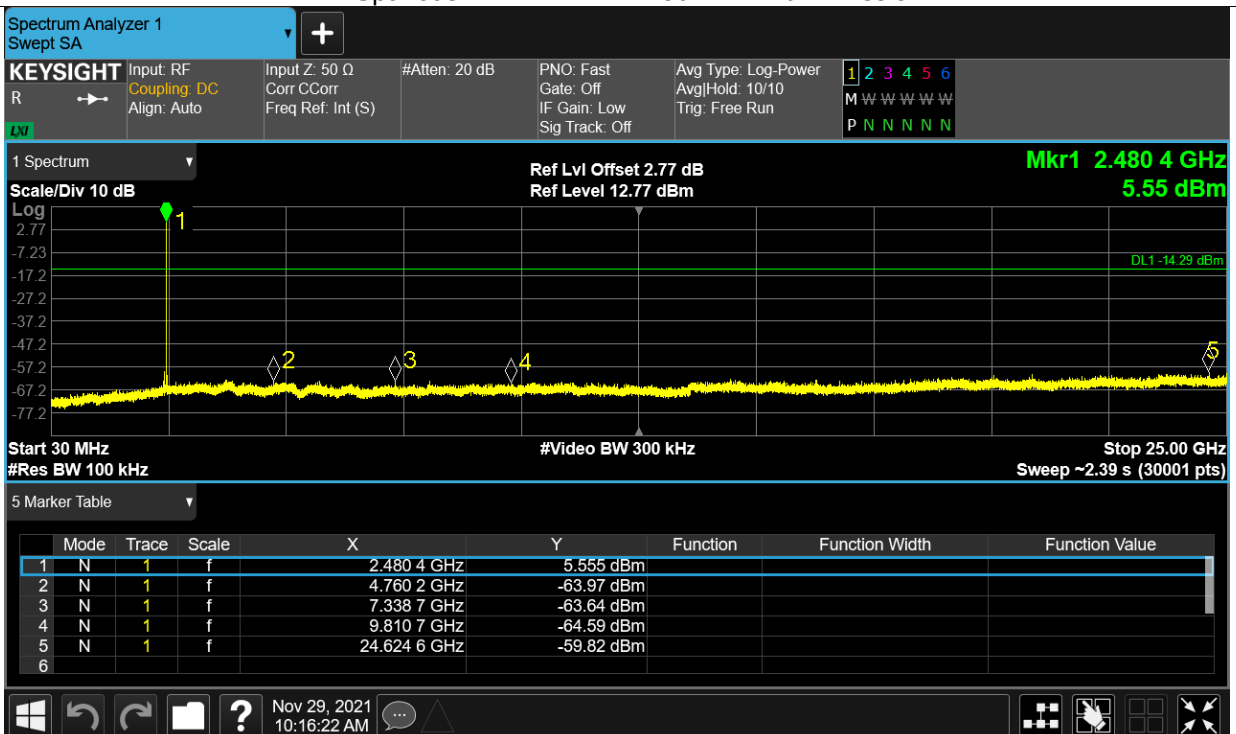
Tx. Spurious NVHT 1-DH1 2441MHz Ant1 Emission



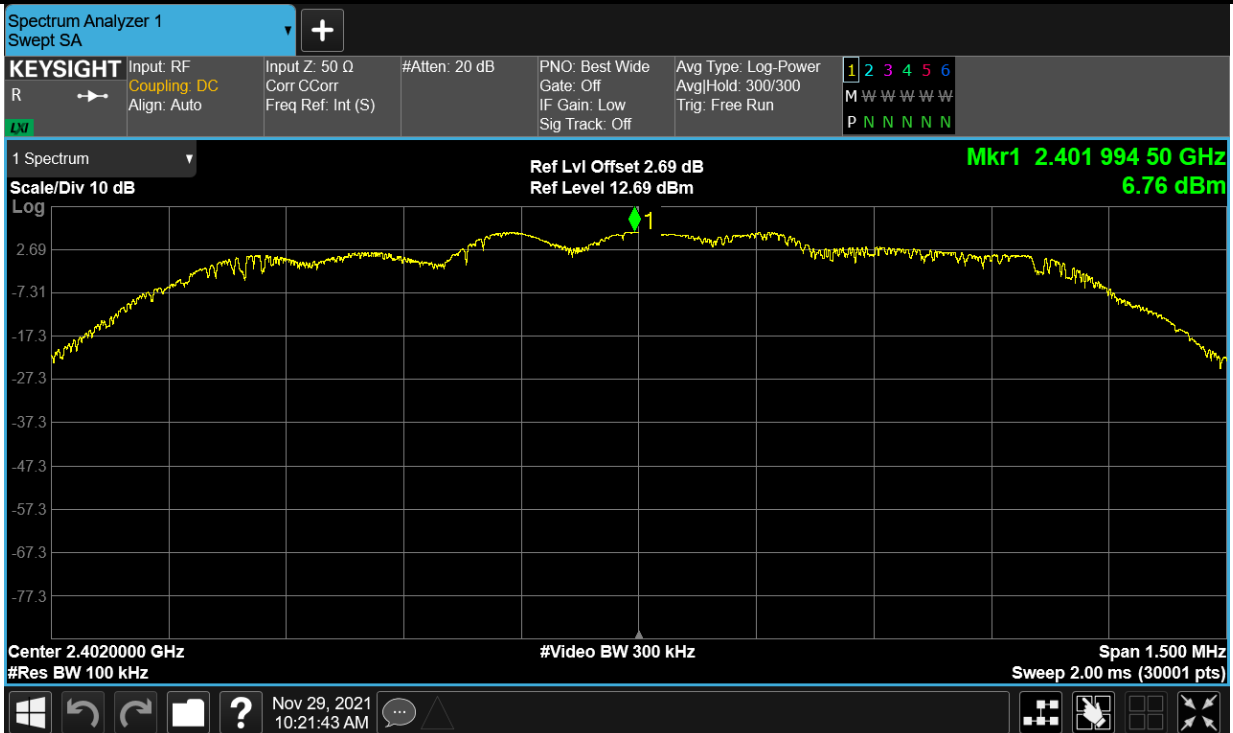
Tx. Spurious NVHT 1-DH1 2480MHz Ant1 Ref



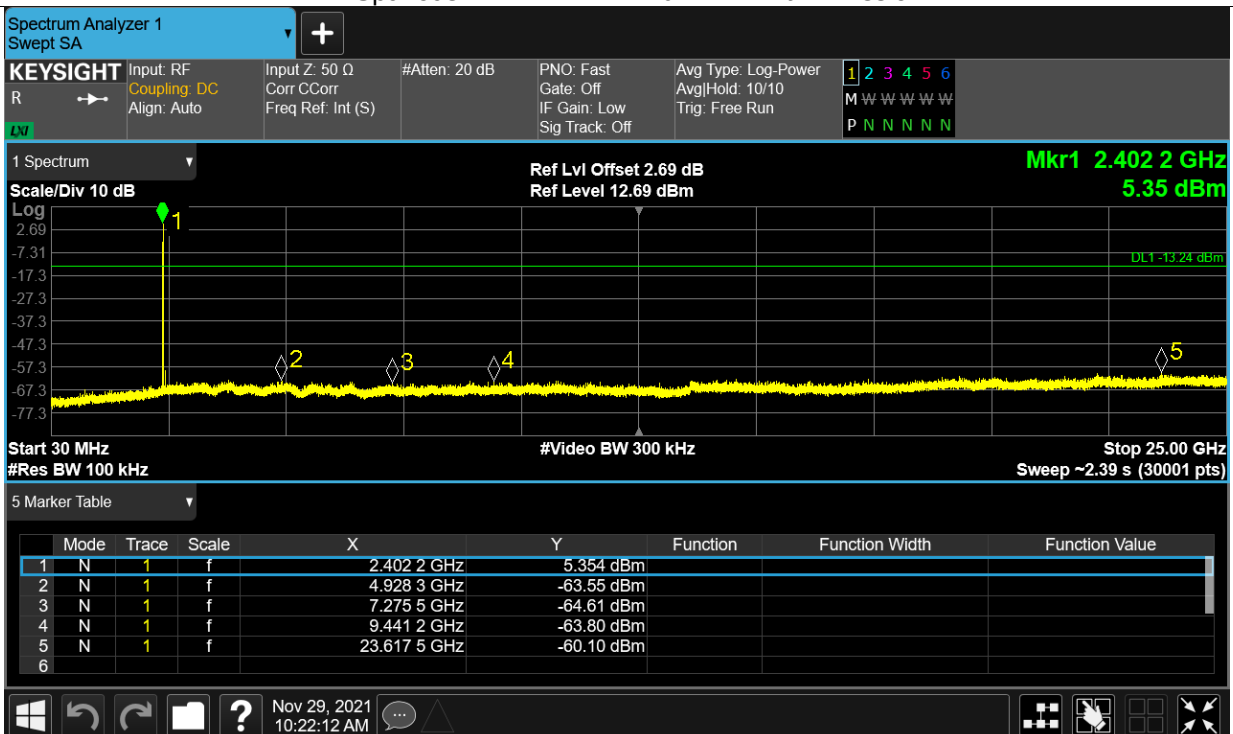
Tx. Spurious NVHT 1-DH1 2480MHz Ant1 Emission



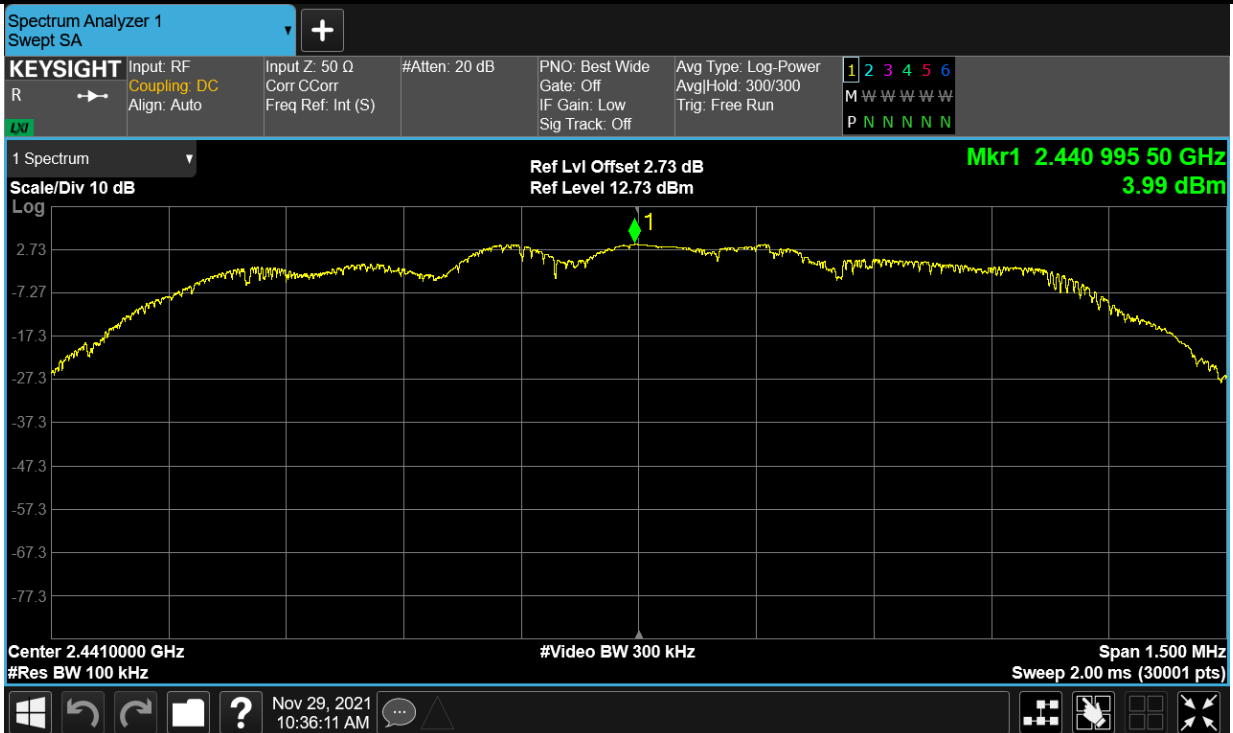
Tx. Spurious NVHT 2-DH1 2402MHz Ant1 Ref



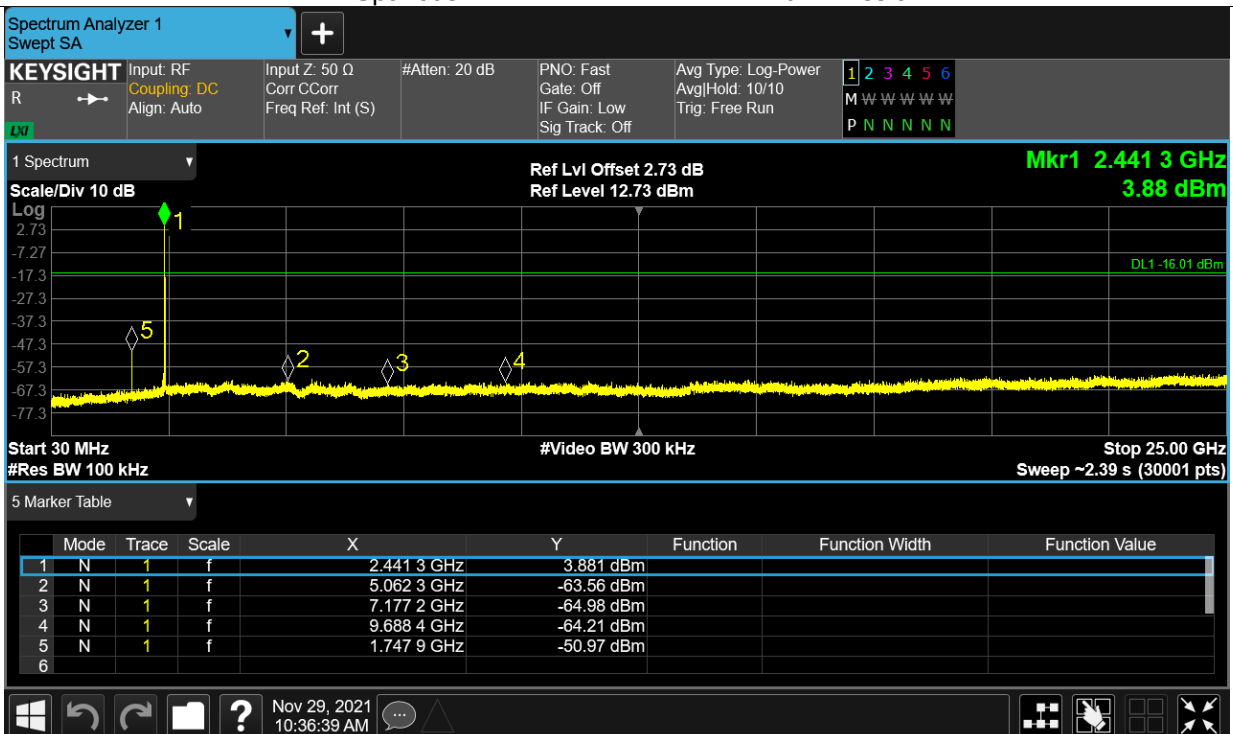
Tx. Spurious NVHT 2-DH1 2402MHz Ant1 Emission



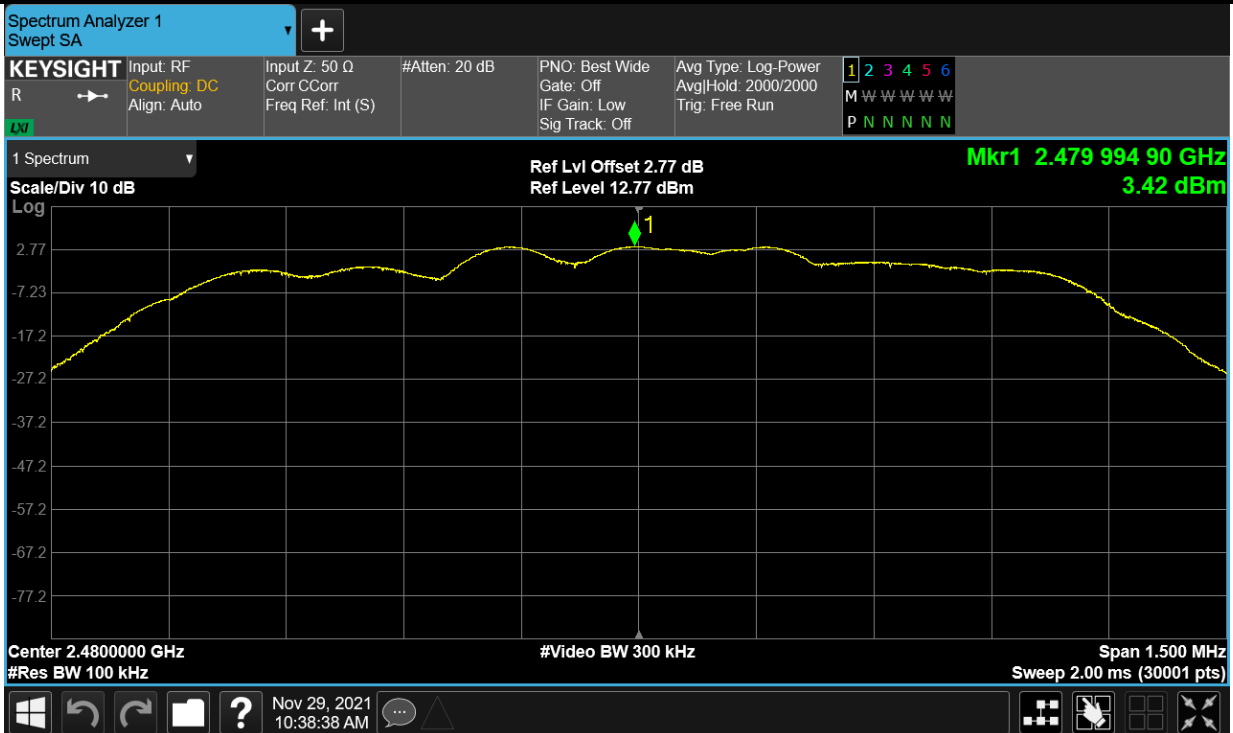
Tx. Spurious NVHT 2-DH1 2441MHz Ant1 Ref



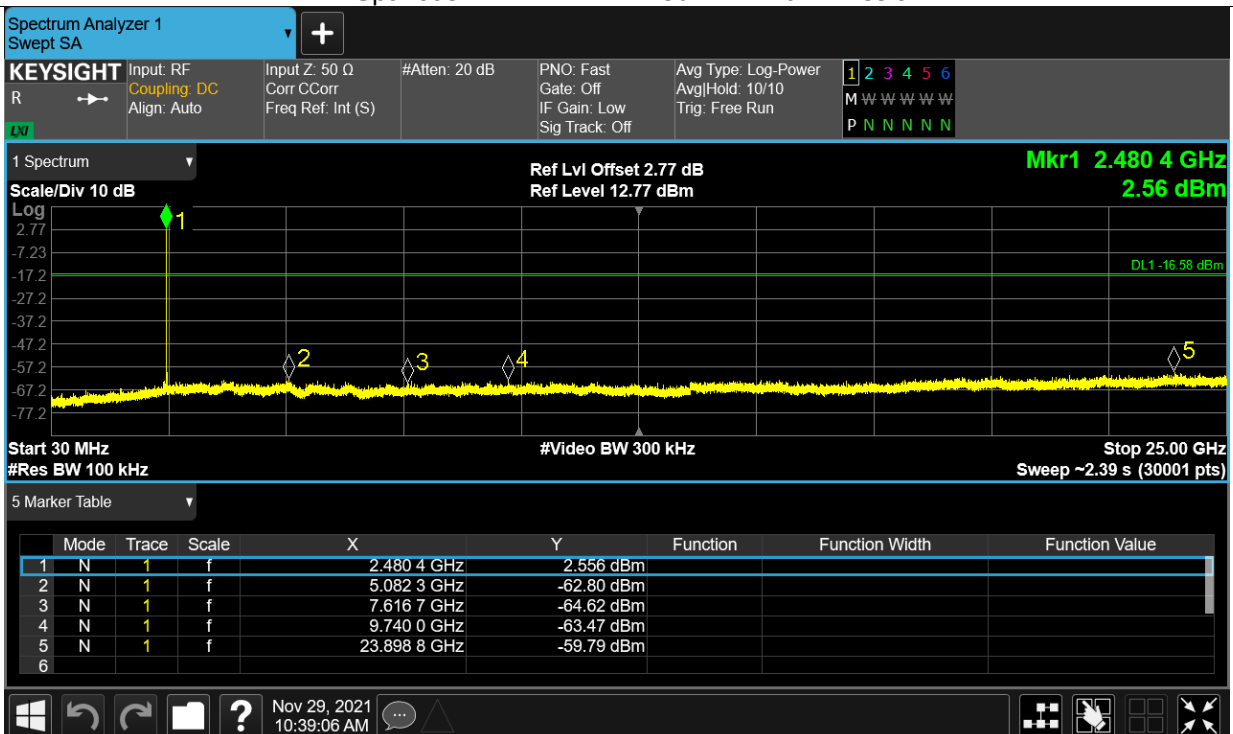
Tx. Spurious NVHT 2-DH1 2441MHz Ant1 Emission



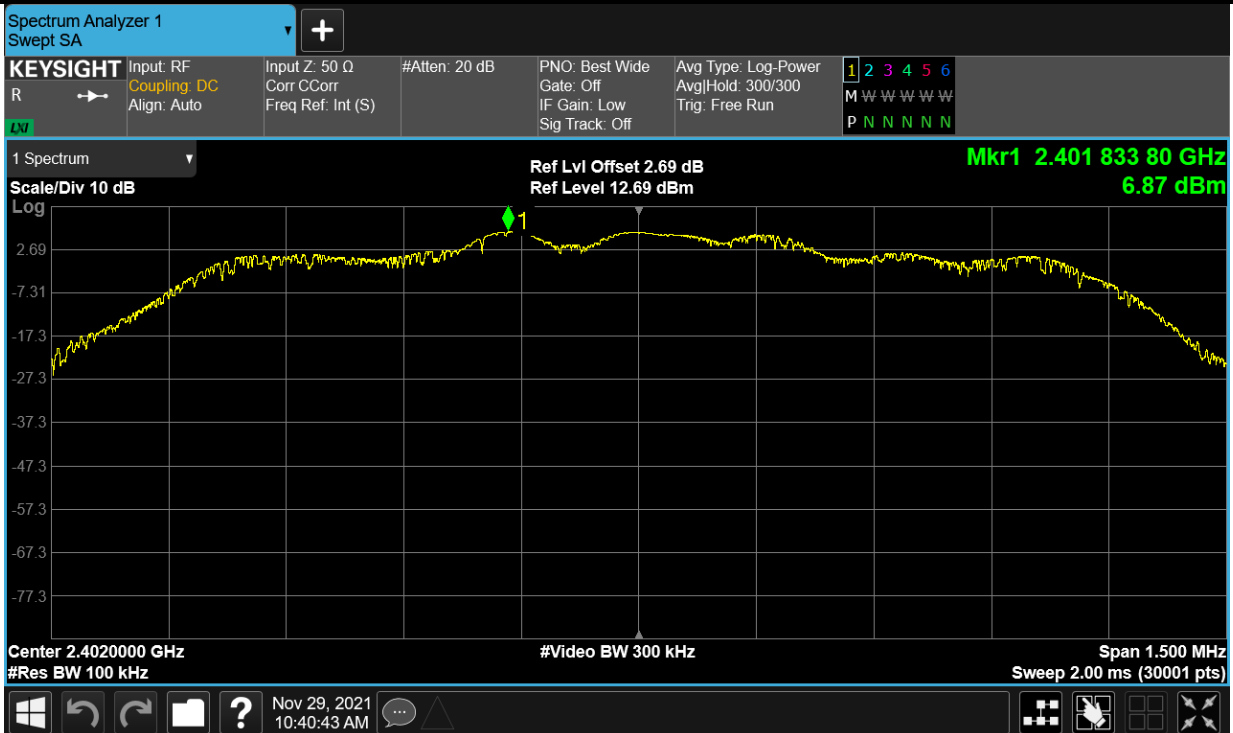
Tx. Spurious NVHT 2-DH1 2480MHz Ant1 Ref



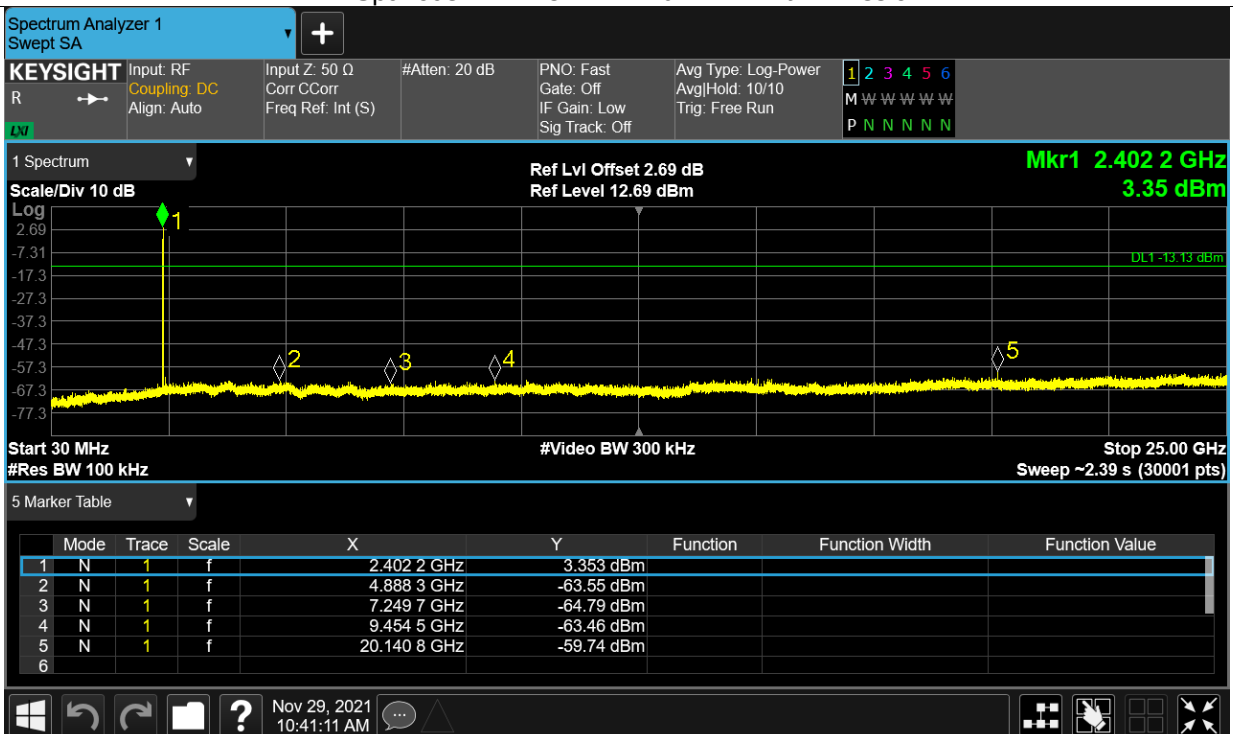
Tx. Spurious NVHT 2-DH1 2480MHz Ant1 Emission



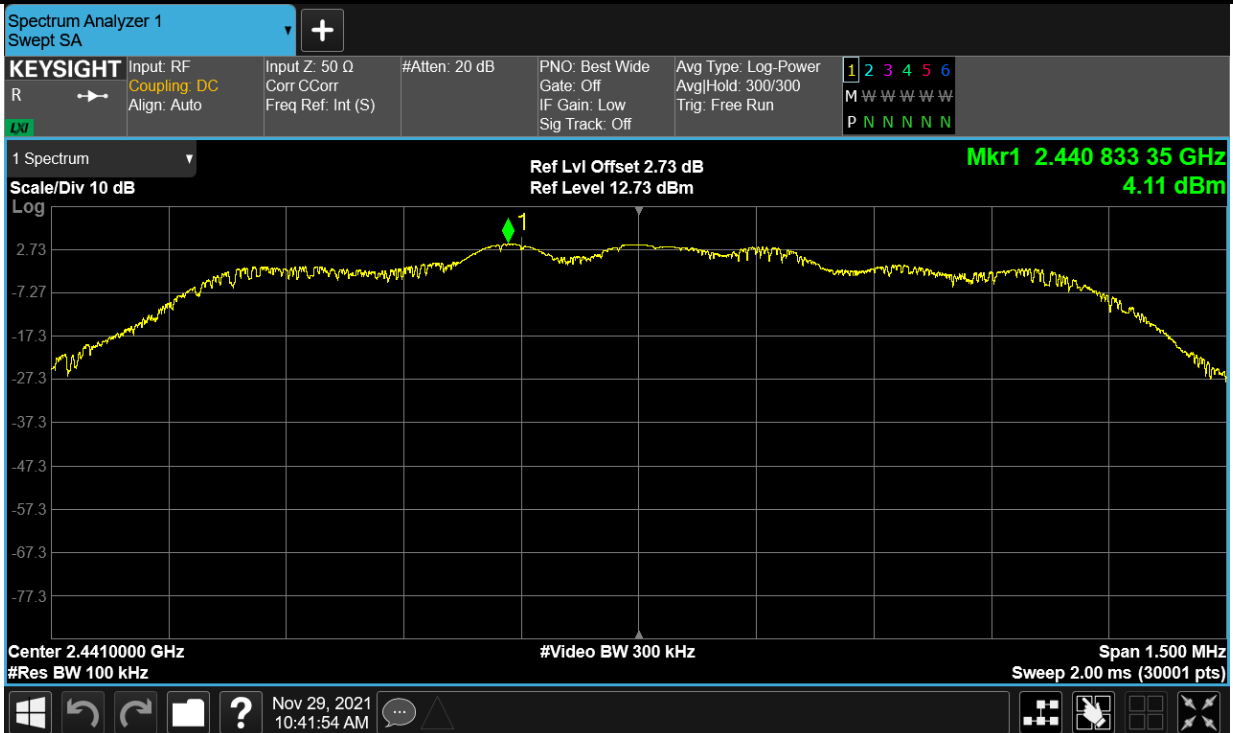
Tx. Spurious NVHT 3-DH1 2402MHz Ant1 Ref



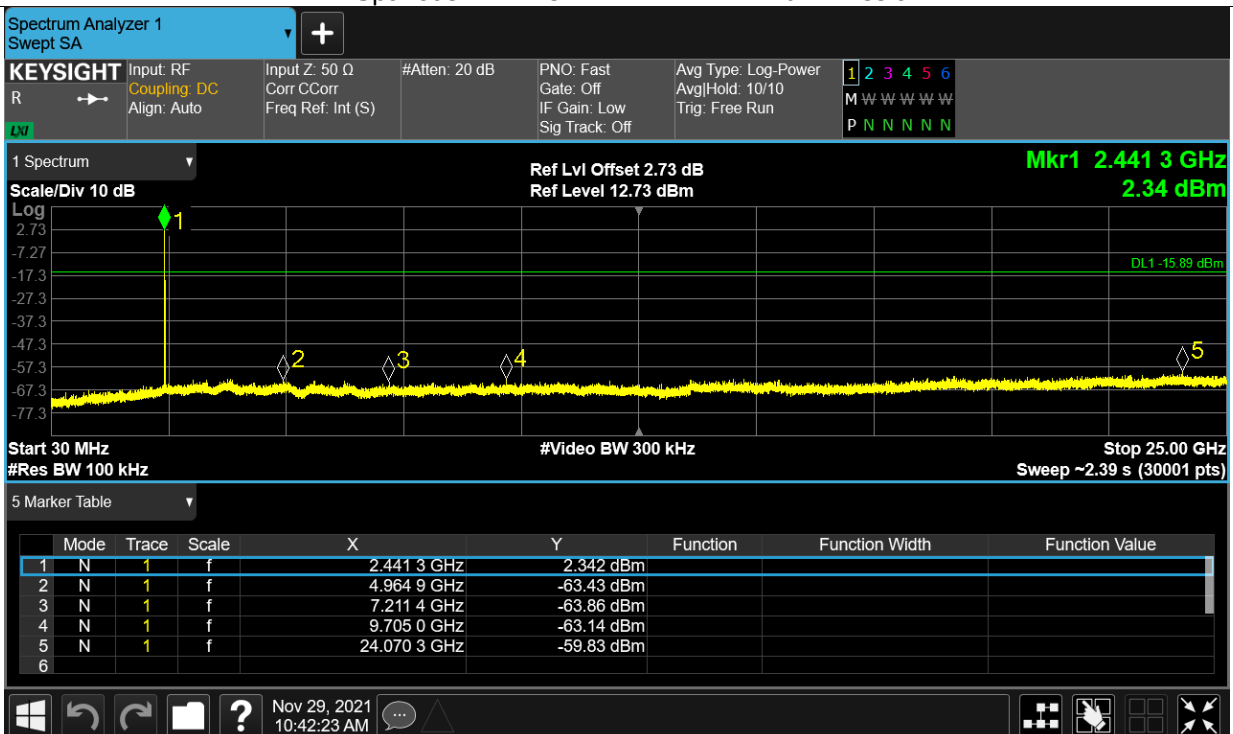
Tx. Spurious NVHT 3-DH1 2402MHz Ant1 Emission



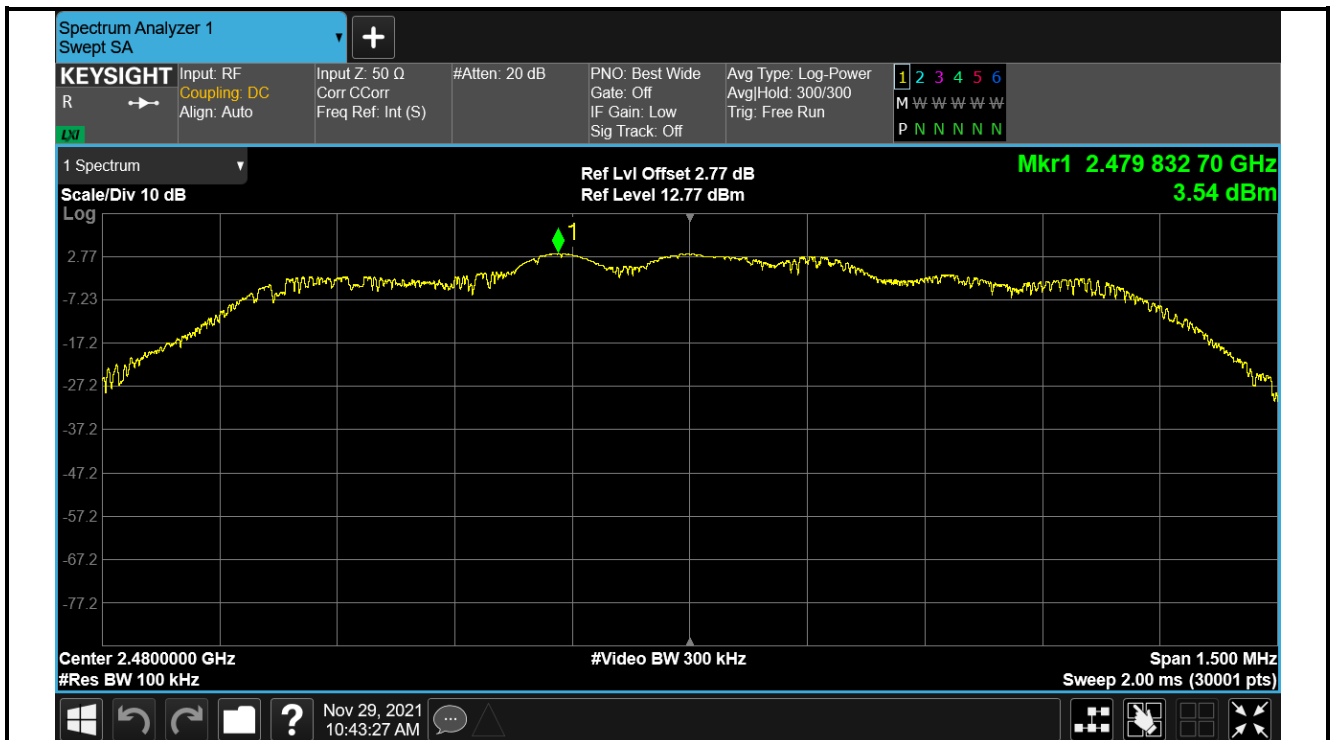
Tx. Spurious NVHT 3-DH1 2441MHz Ant1 Ref



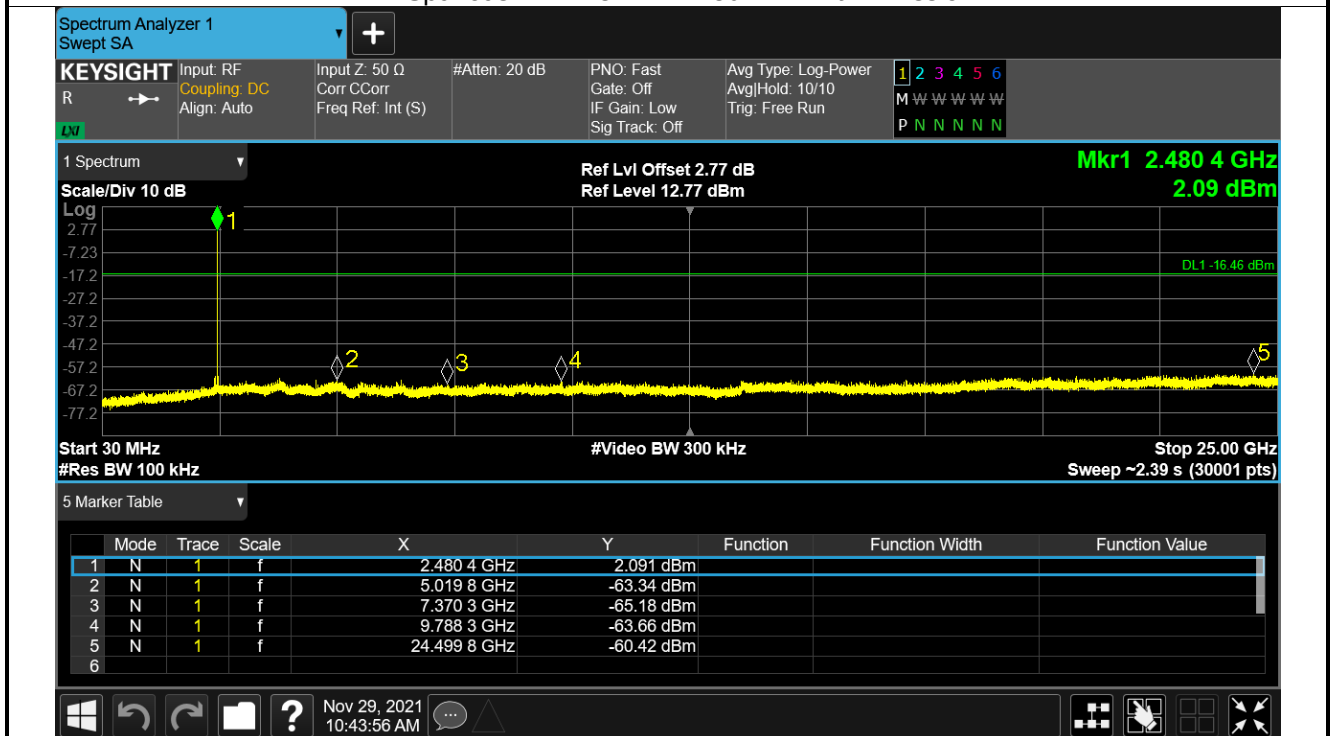
Tx. Spurious NVHT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVHT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVHT 3-DH1 2480MHz Ant1 Emission

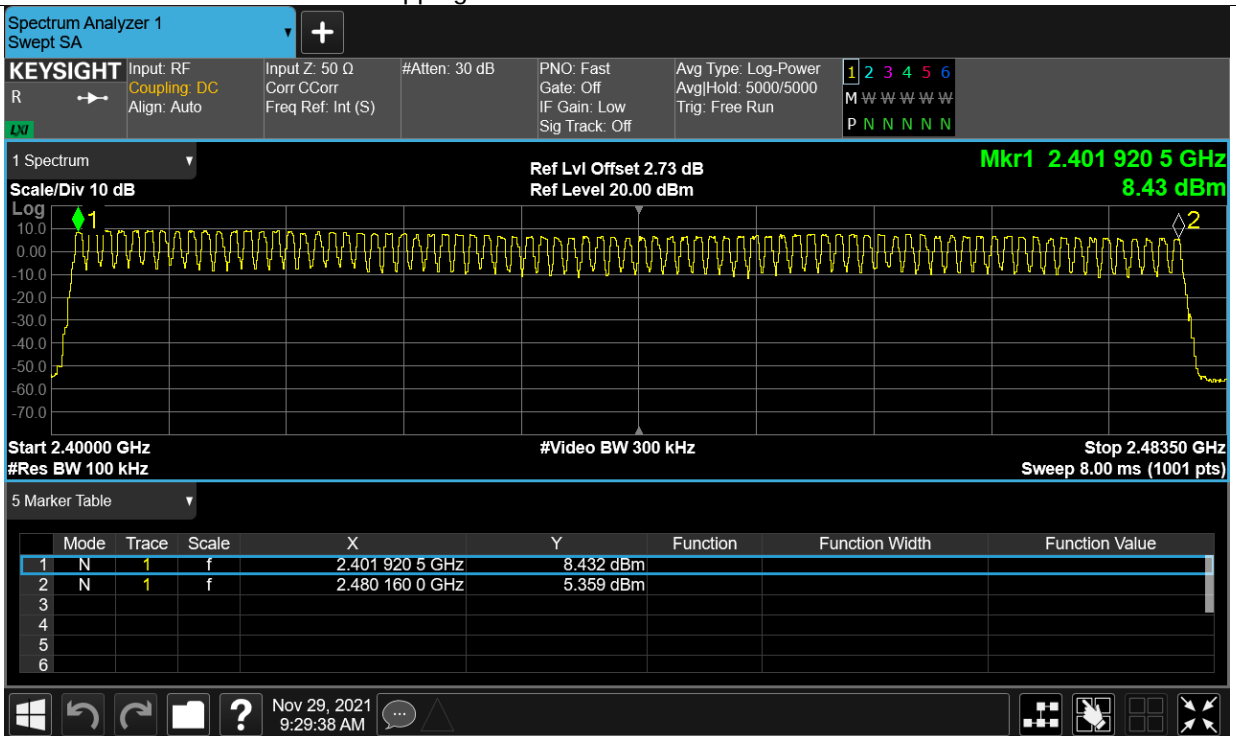


A.7 Number of Hopping Channel

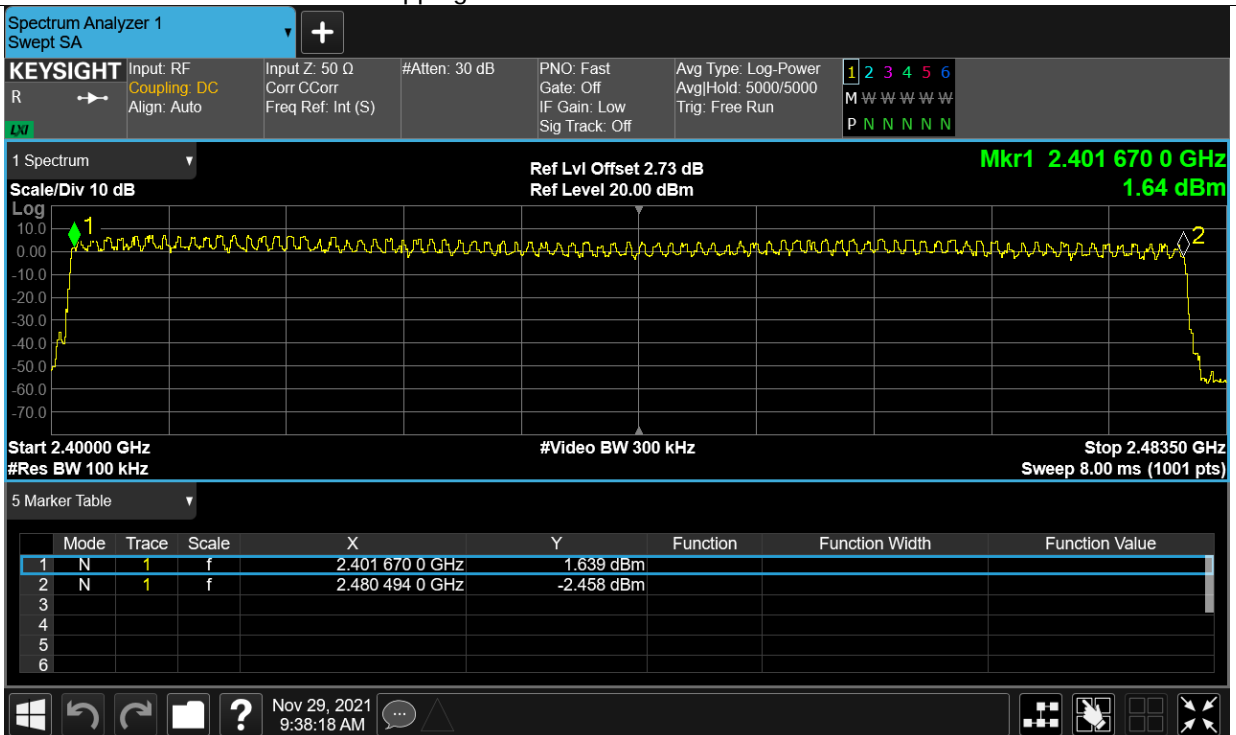
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVHT	1-DH1	Ant1	79	15	Pass
NVHT	2-DH1	Ant1	79	15	Pass
NVHT	3-DH1	Ant1	79	15	Pass

Test Graphs

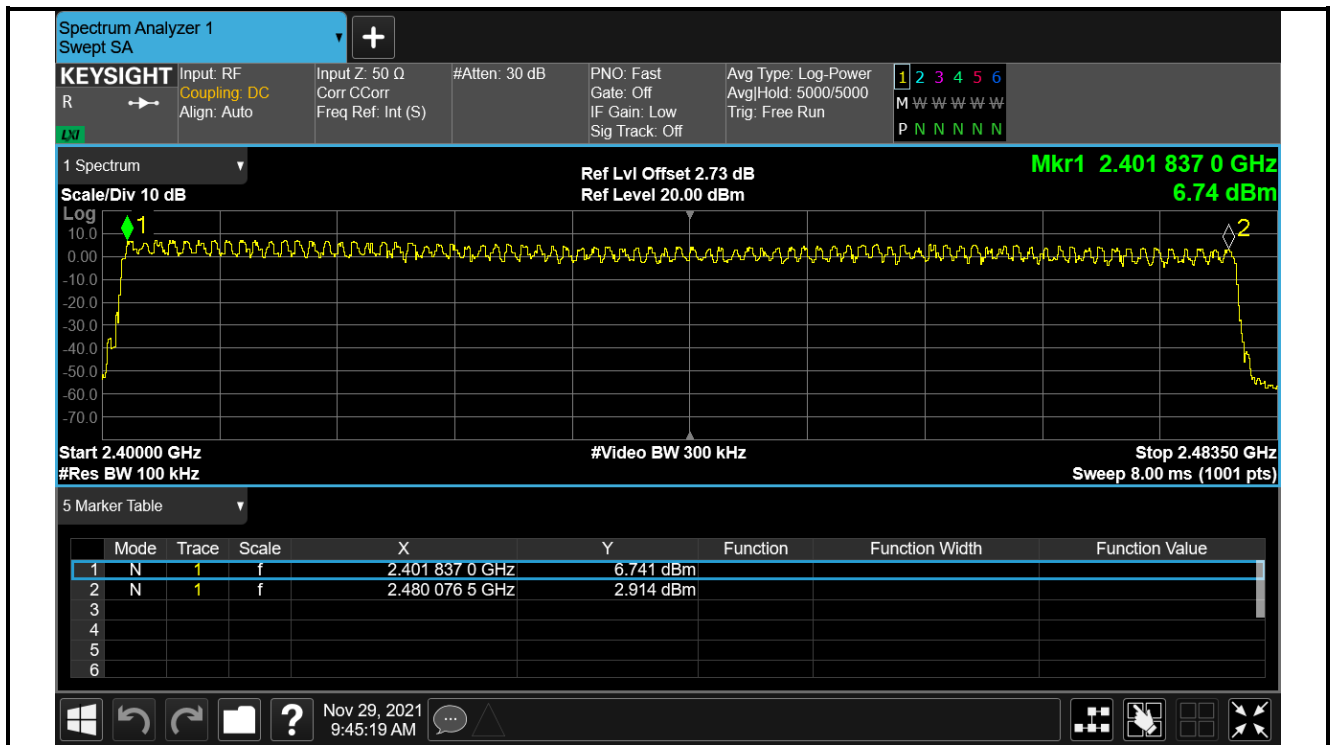
Hopping No. NVHT 1-DH1 2441MHz Ant1



Hopping No. NVHT 2-DH1 2441MHz Ant1



Hopping No. NVHT 3-DH1 2441MHz Ant1

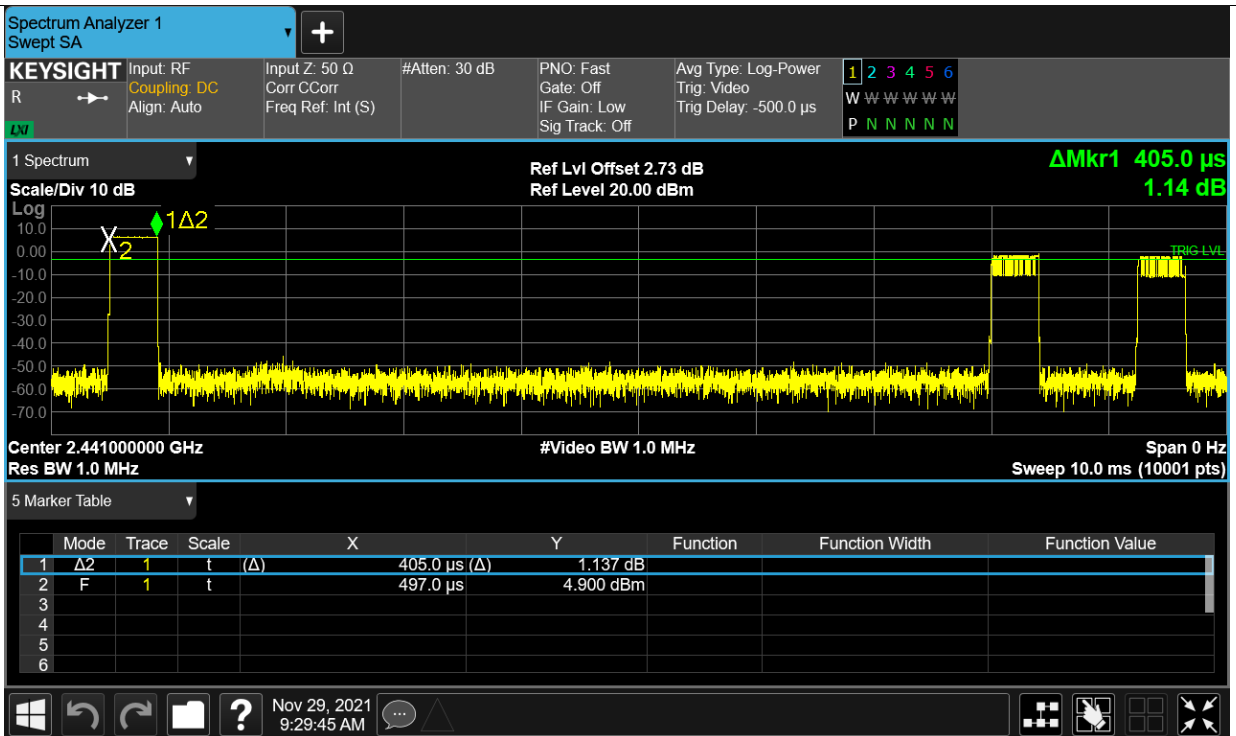


A.8 Dwell Time

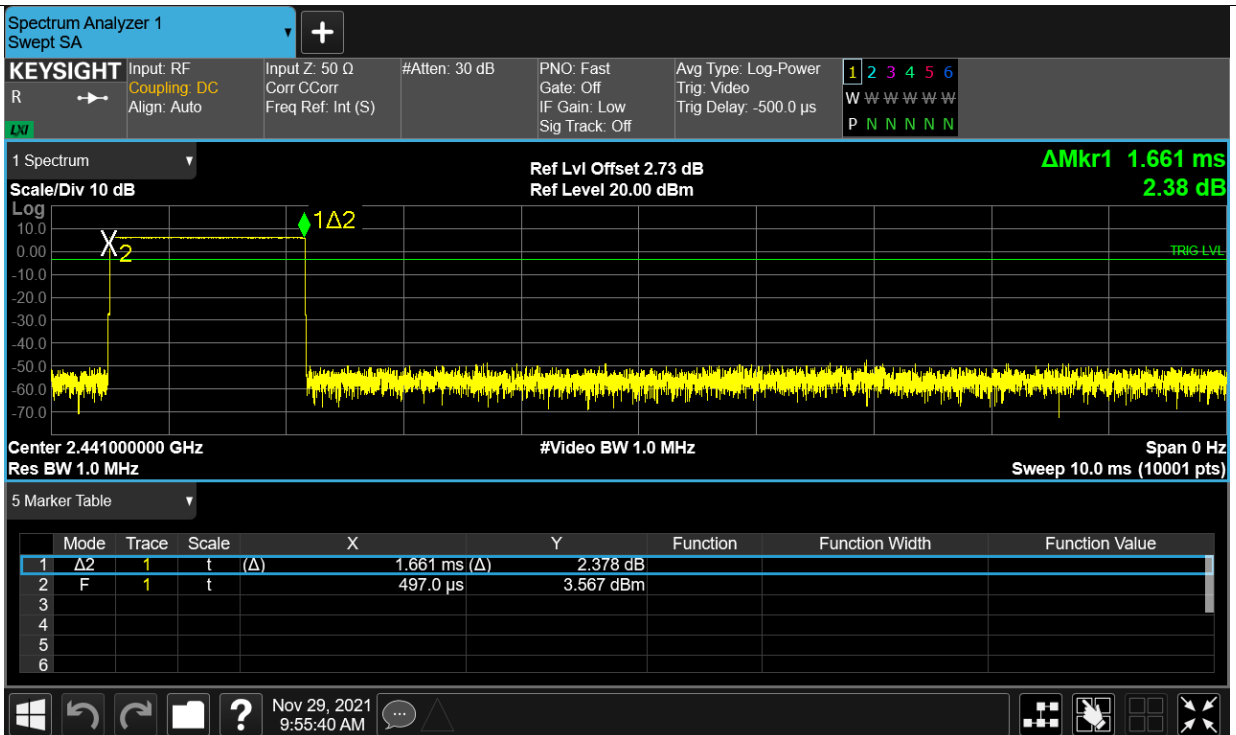
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVHT	1-DH1	2441	Ant1	0.405	129.6	31600	400	Pass
NVHT	1-DH3	2441	Ant1	1.661	265.76	31600	400	Pass
NVHT	1-DH5	2441	Ant1	2.91	310.4	31600	400	Pass
NVHT	2-DH1	2441	Ant1	0.398	127.36	31600	400	Pass
NVHT	2-DH3	2441	Ant1	1.538	246.08	31600	400	Pass
NVHT	2-DH5	2441	Ant1	2.806	299.307	31600	400	Pass
NVHT	3-DH1	2441	Ant1	0.396	126.72	31600	400	Pass
NVHT	3-DH3	2441	Ant1	1.647	263.52	31600	400	Pass
NVHT	3-DH5	2441	Ant1	2.804	299.093	31600	400	Pass

Test Graphs

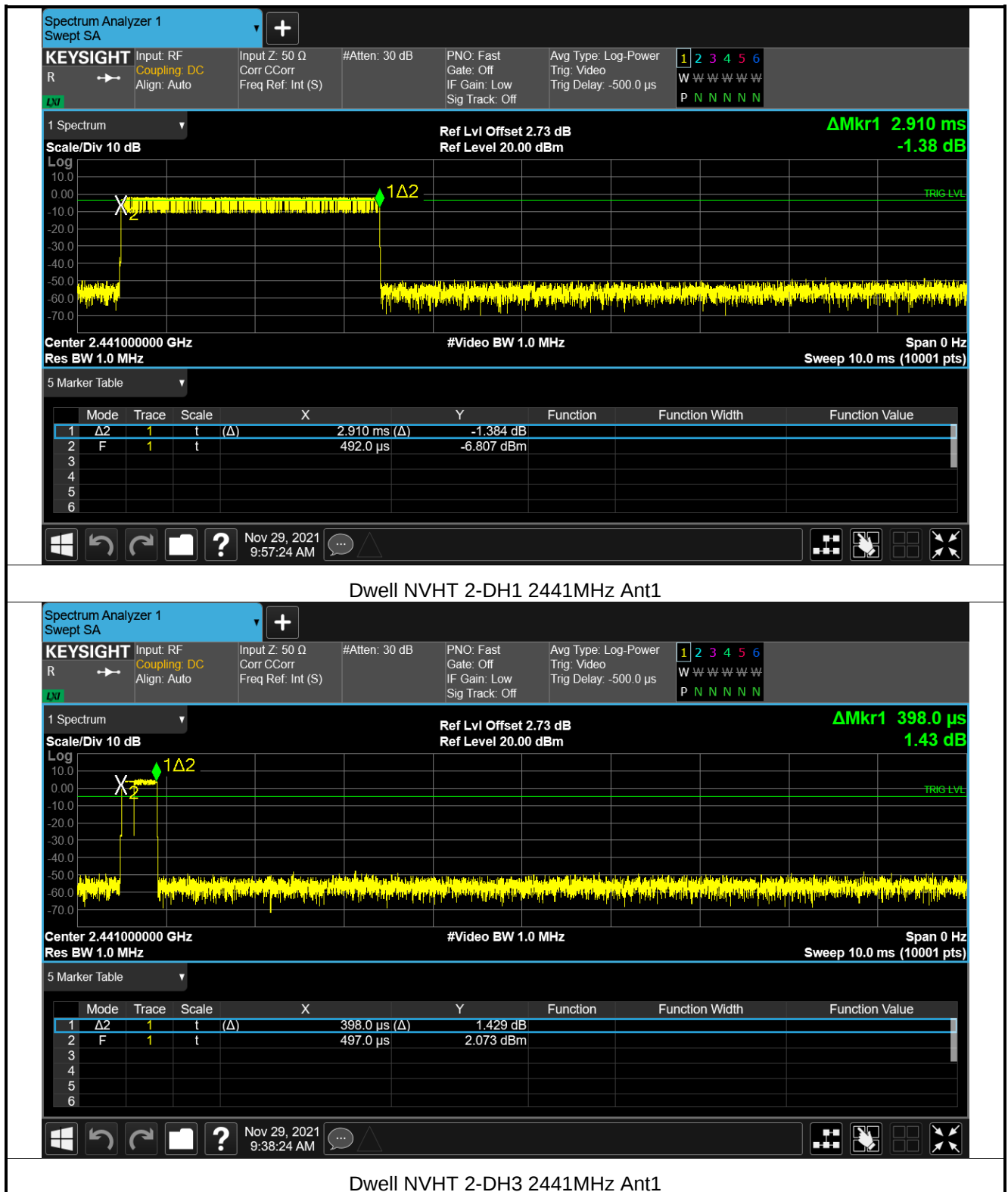
Dwell NVHT 1-DH1 2441MHz Ant1



Dwell NVHT 1-DH3 2441MHz Ant1



Dwell NVHT 1-DH5 2441MHz Ant1



Dwell NVHT 2-DH1 2441MHz Ant1

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Trg: Video Trg Delay: -500.0 μ s

1 2 3 4 5 6
W W W W W W
P N N N N N

1 Spectrum

Ref Lvl Offset 2.73 dB
Ref Level 20.00 dBm

Scale/Div 10 dB

Log

10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0

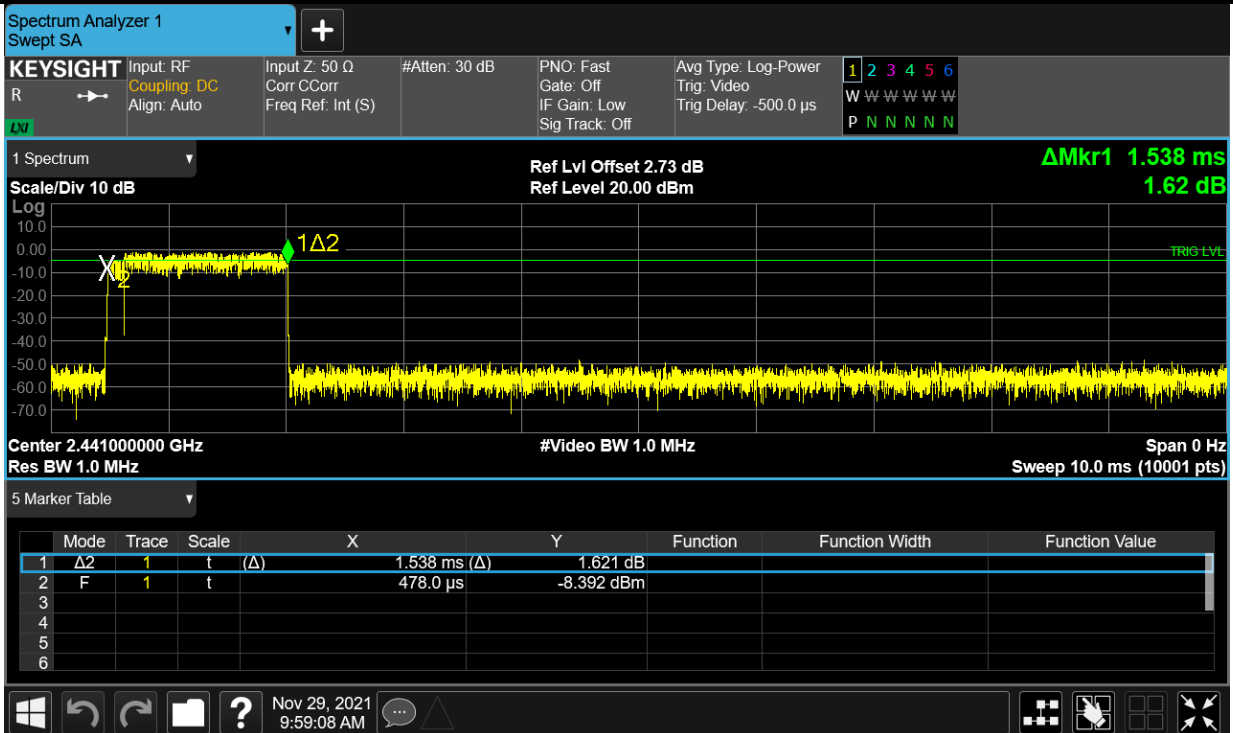
Center 2.441000000 GHz Res BW 1.0 MHz #Video BW 1.0 MHz Span 0 Hz Sweep 10.0 ms (10001 pts)

5 Marker Table

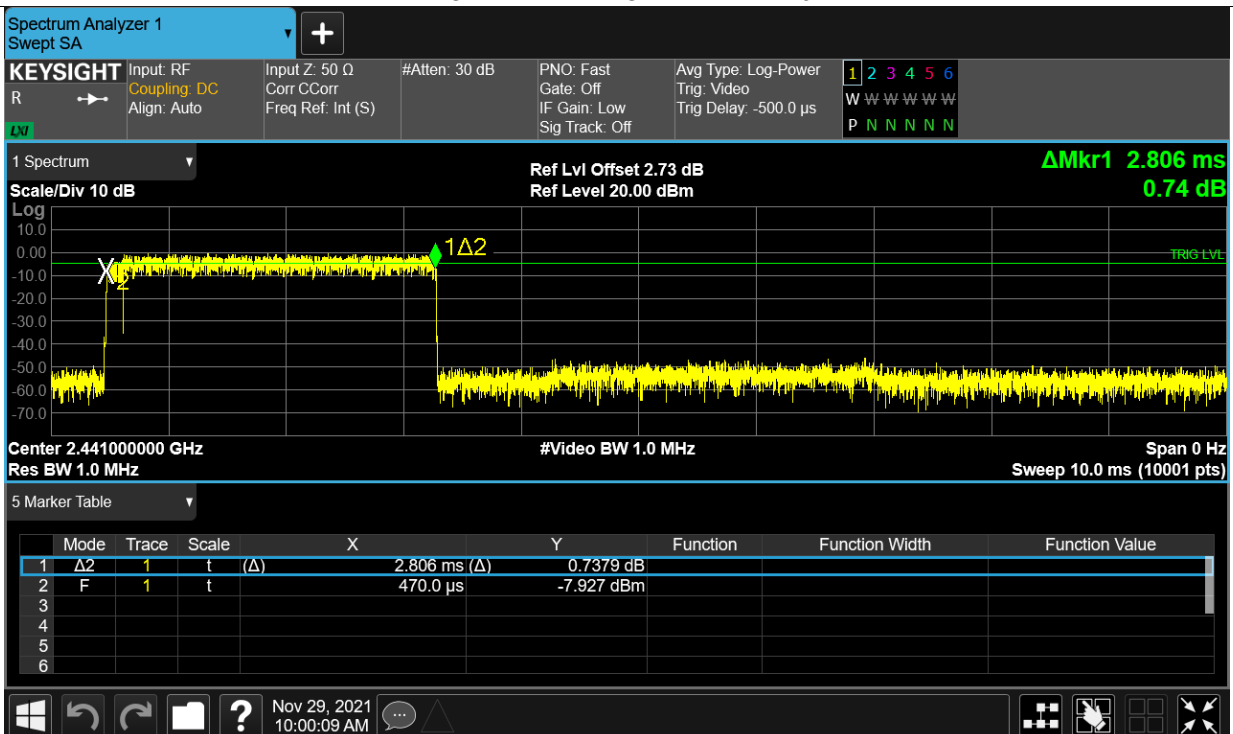
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ 2	1	t	(Δ)	398.0 μ s (Δ)	1.429 dB		
2	F	1	t		497.0 μ s	2.073 dBm		
3								
4								
5								
6								

Nov 29, 2021 9:38:24 AM

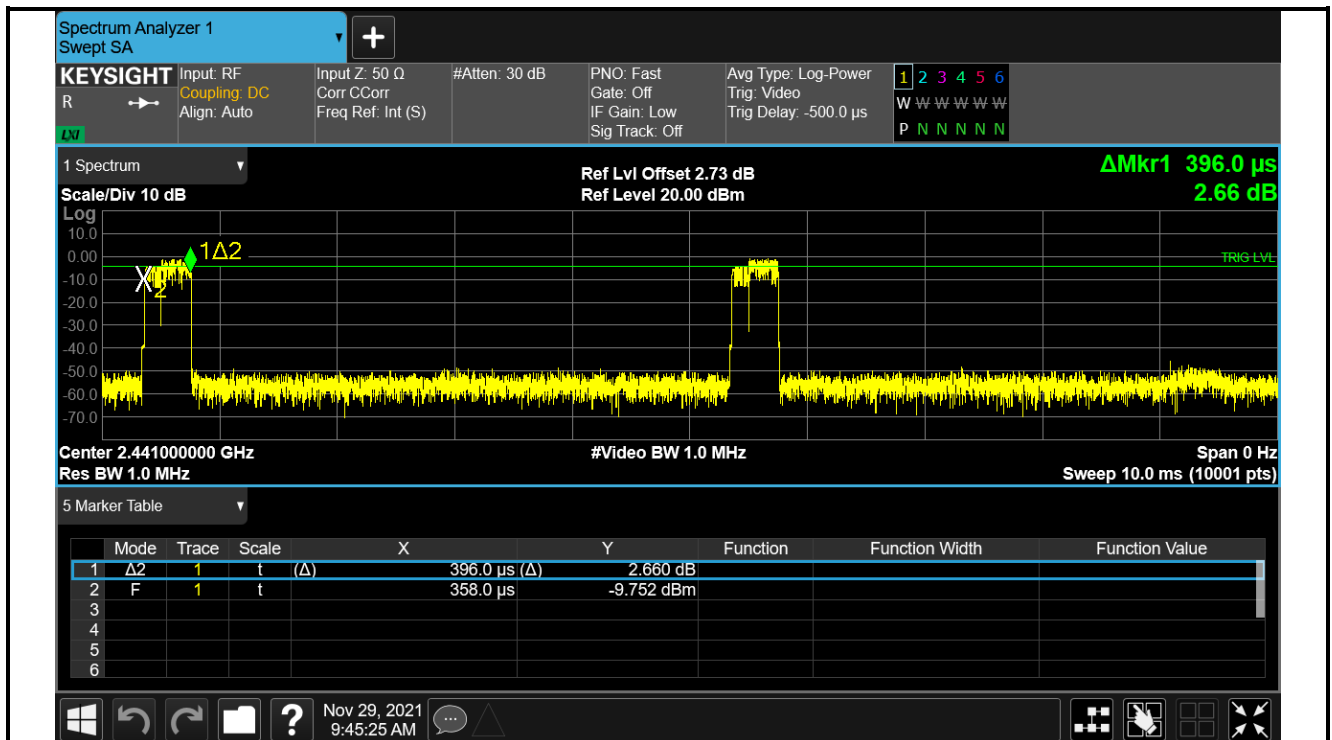
Dwell NVHT 2-DH3 2441MHz Ant1



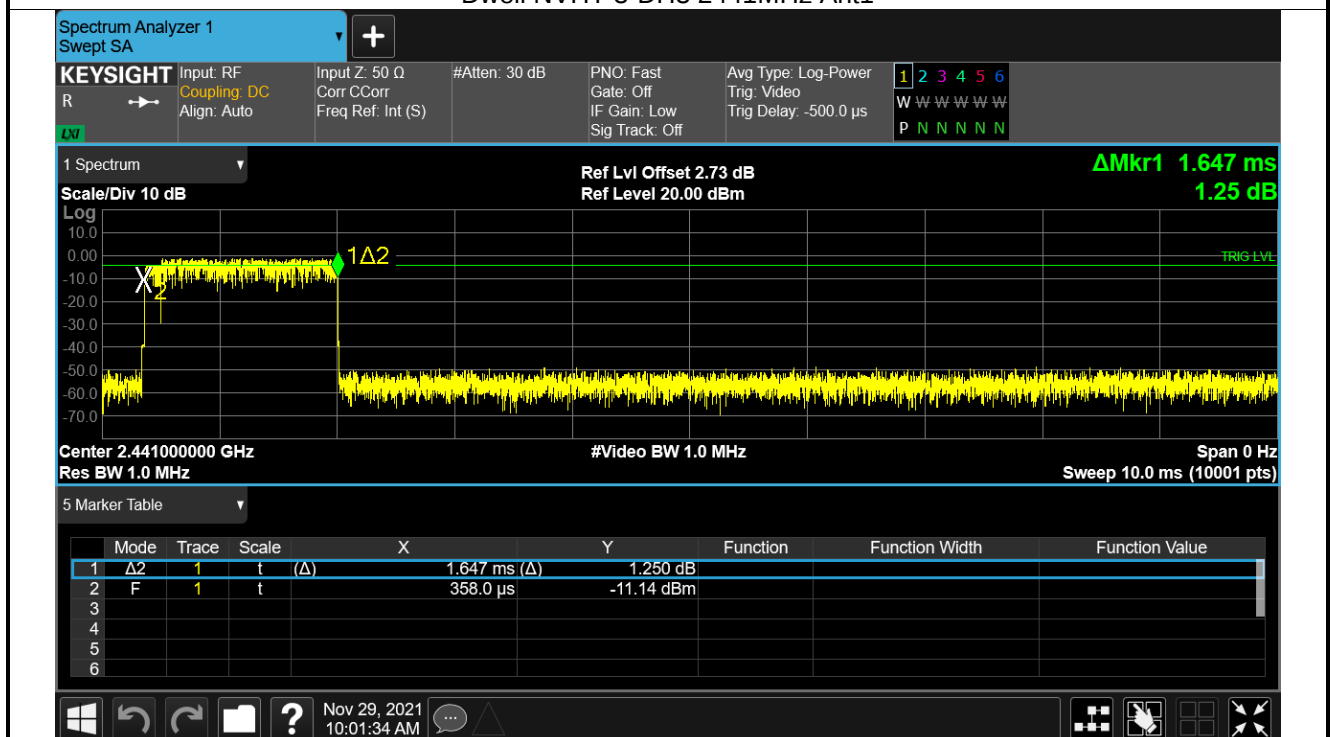
Dwell NVHT 2-DH5 2441MHz Ant1



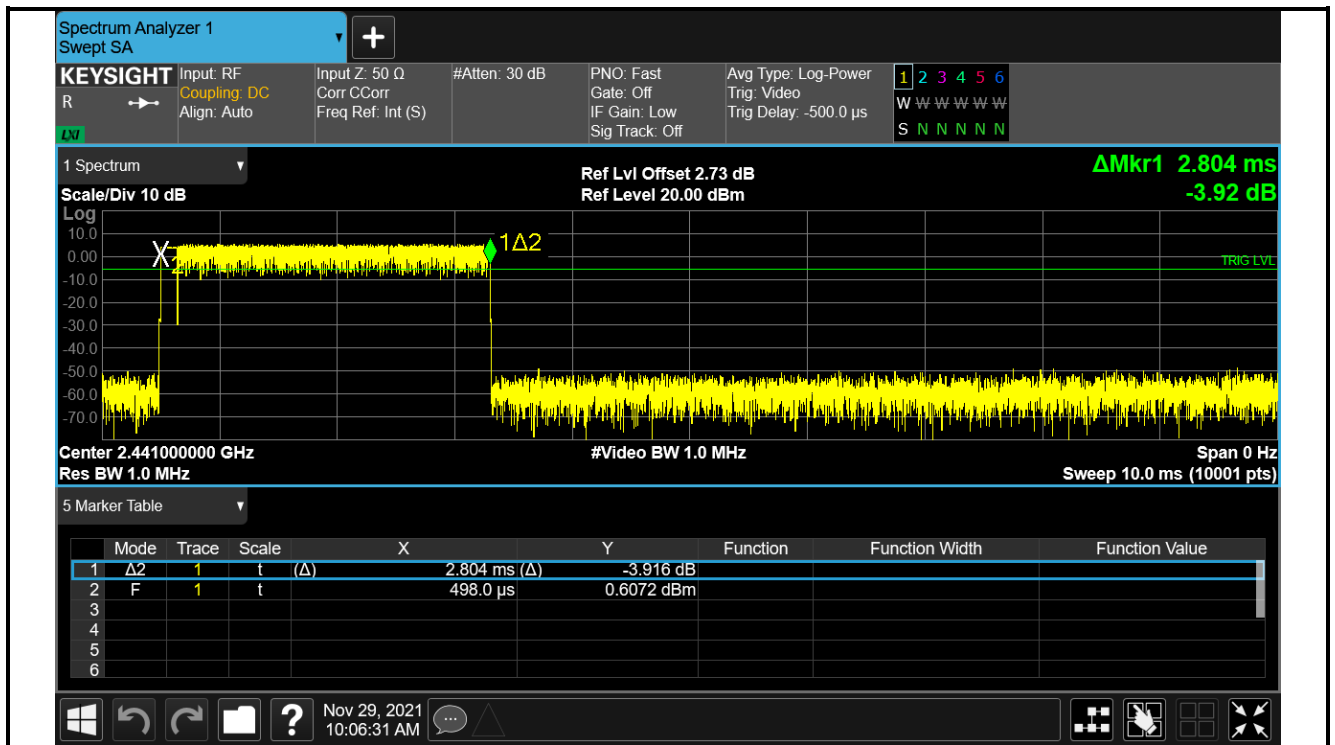
Dwell NVHT 3-DH1 2441MHz Ant1



Dwell NVHT 3-DH3 2441MHz Ant1



Dwell NVHT 3-DH5 2441MHz Ant1



-----End of report-----