

RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	SCORE51X
Sample ID:	RW-C-202211-0239-1-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Zhu Dian Yuan
Note: For a more detailed features description, please refer to the report TBR-C-202211-0239-11	

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	30.4	5.17	2.63

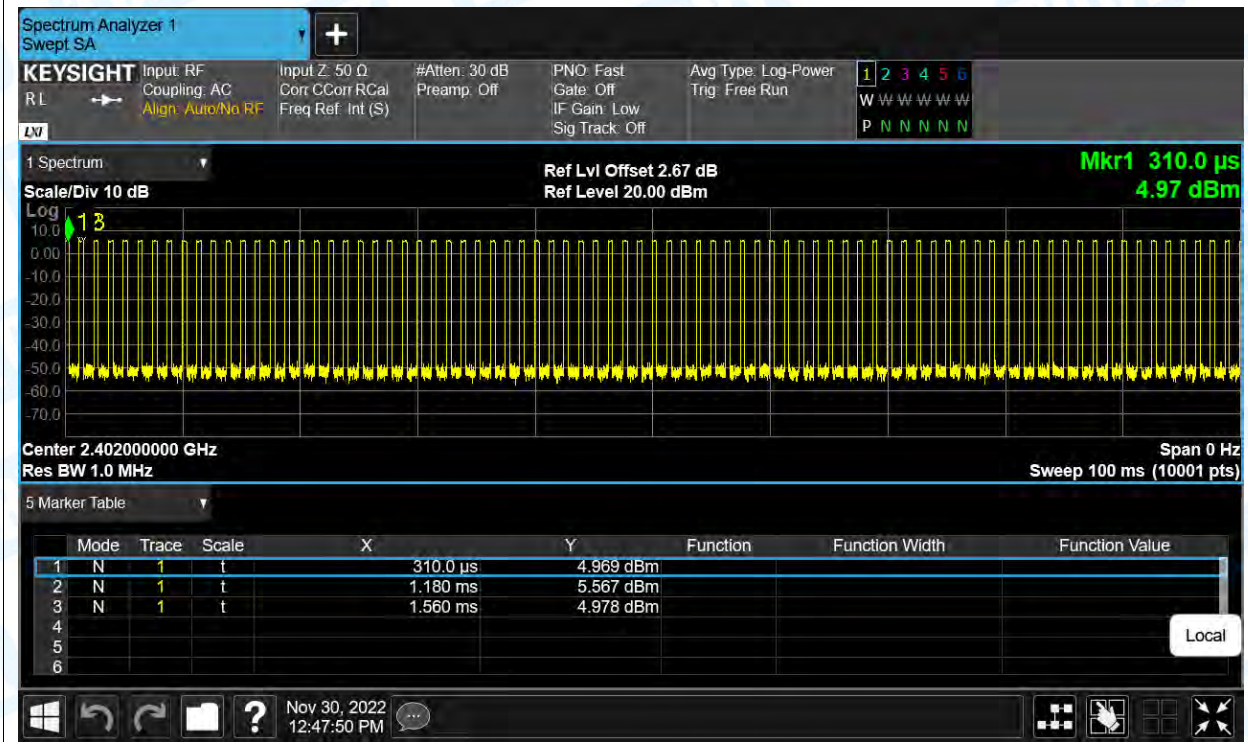
Note: $Duty\ Cycle(\%) = \frac{ON(ms)}{ON(ms)+OFF(ms)}$

$ON(ms) = Maker3 - Maker2$

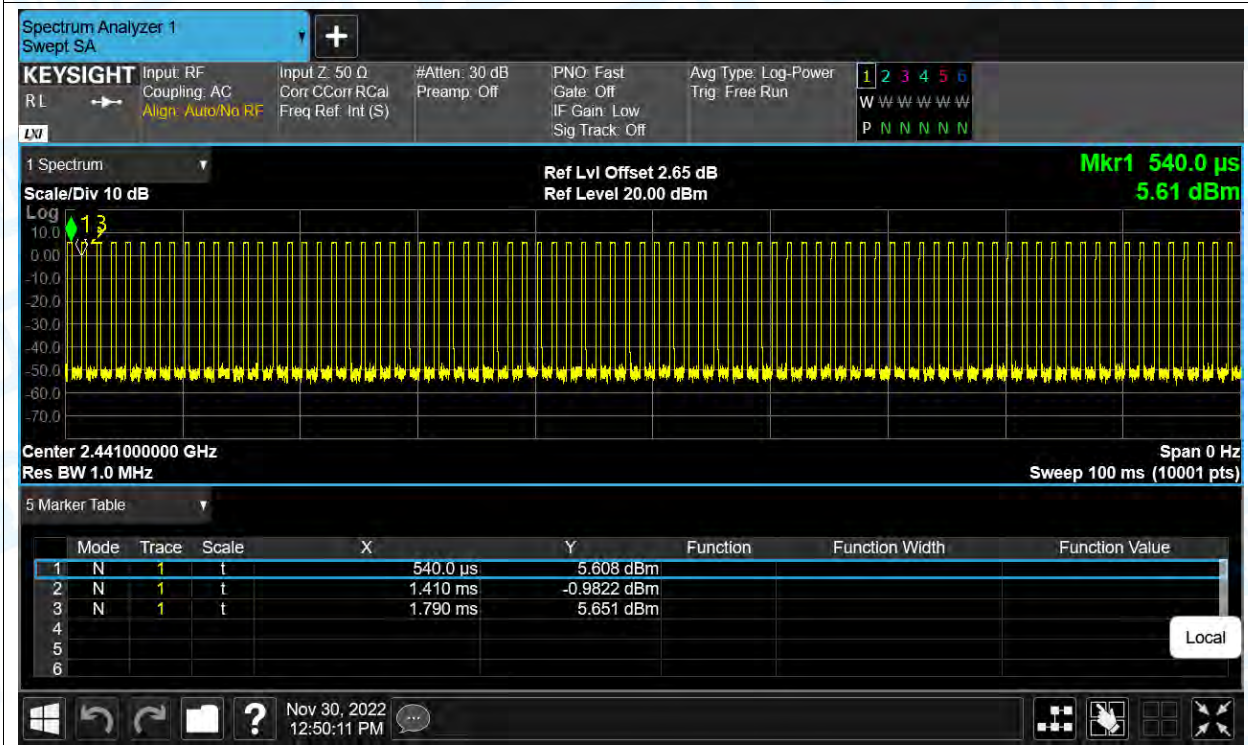
$(ON(ms)+OFF(ms)) = Maker3 - Maker1$

Test Graphs

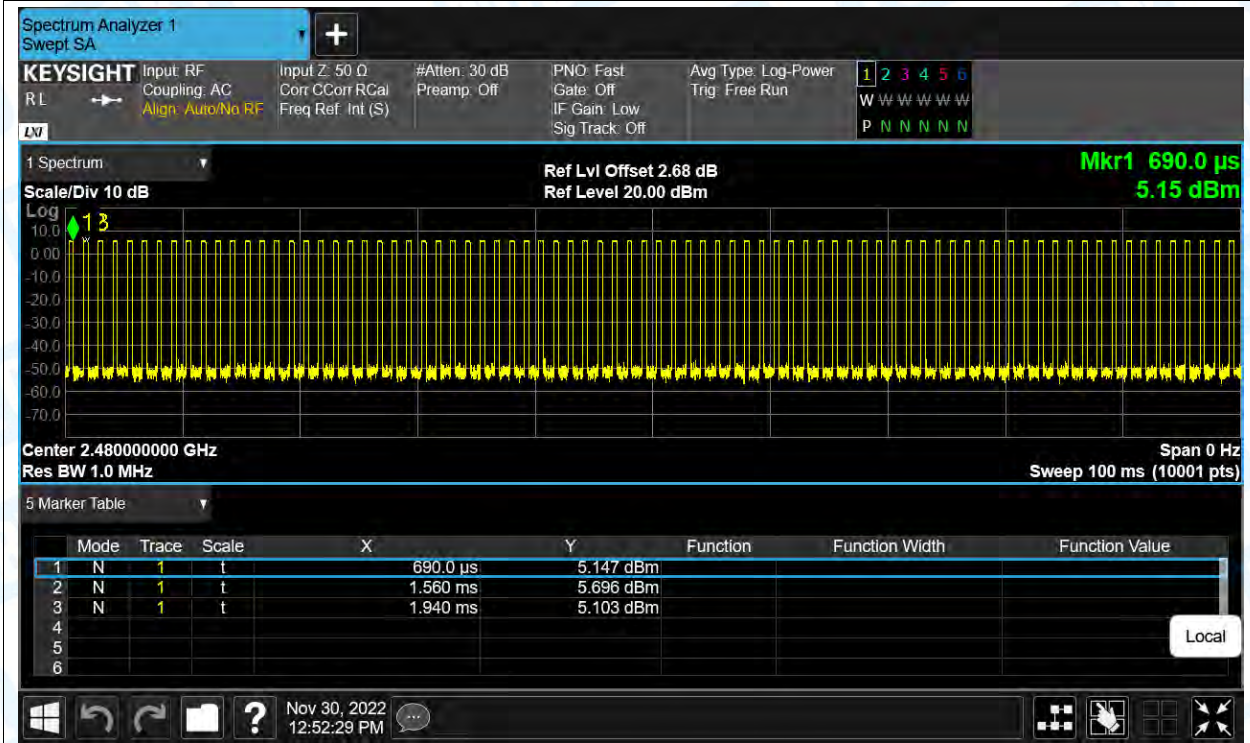
Duty Cycle NVNT 1-DH1 2402MHz Ant1



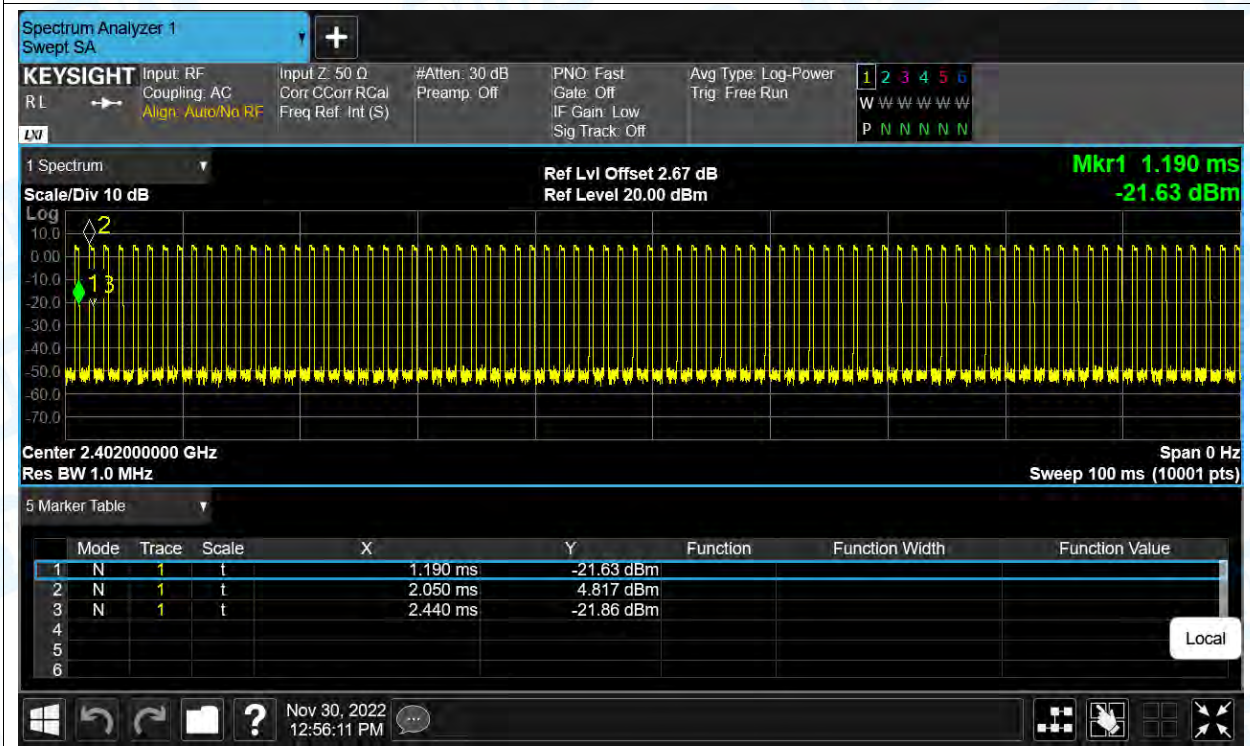
Duty Cycle NVNT 1-DH1 2441MHz Ant1



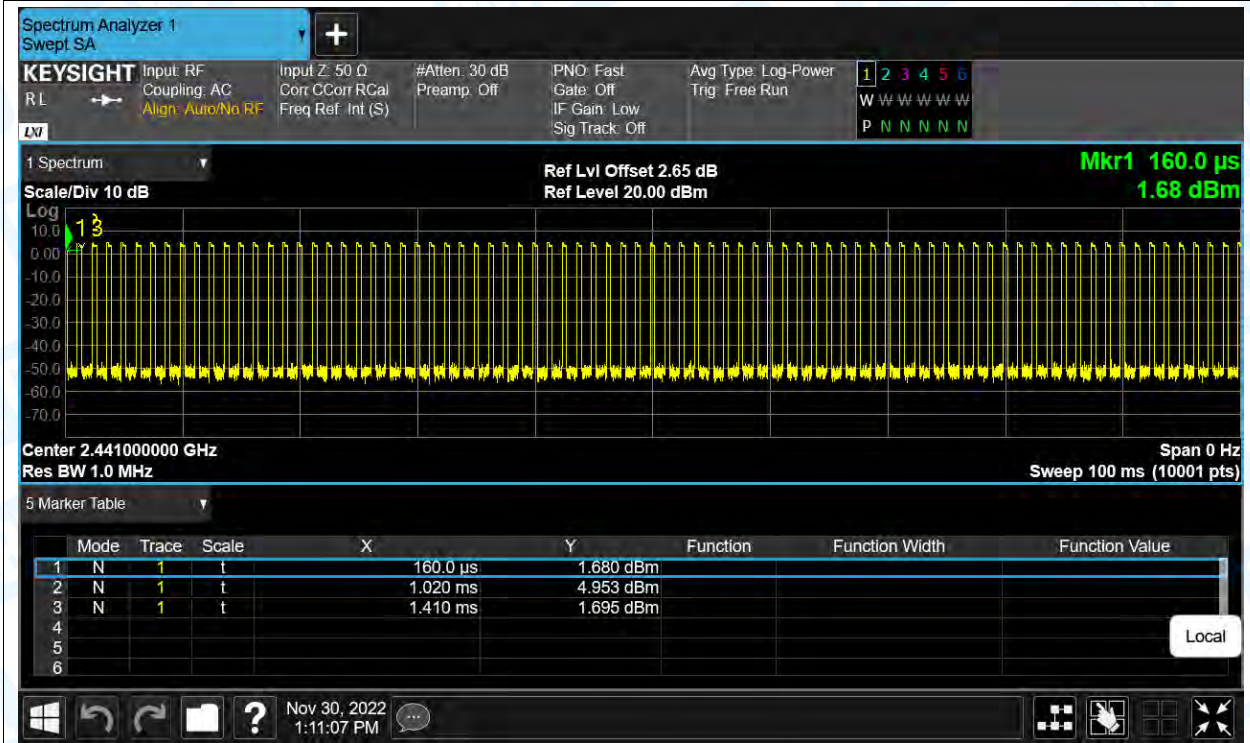
Duty Cycle NVNT 1-DH1 2480MHz Ant1



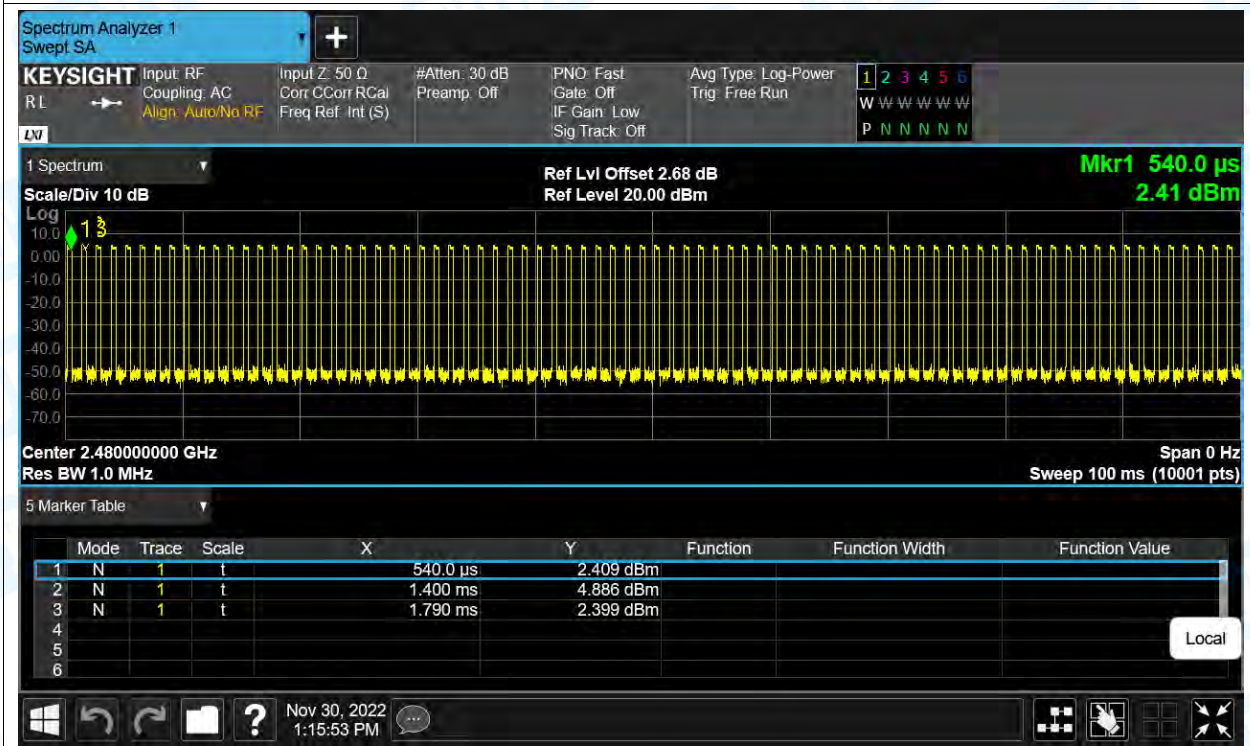
Duty Cycle NVNT 2-DH1 2402MHz Ant1



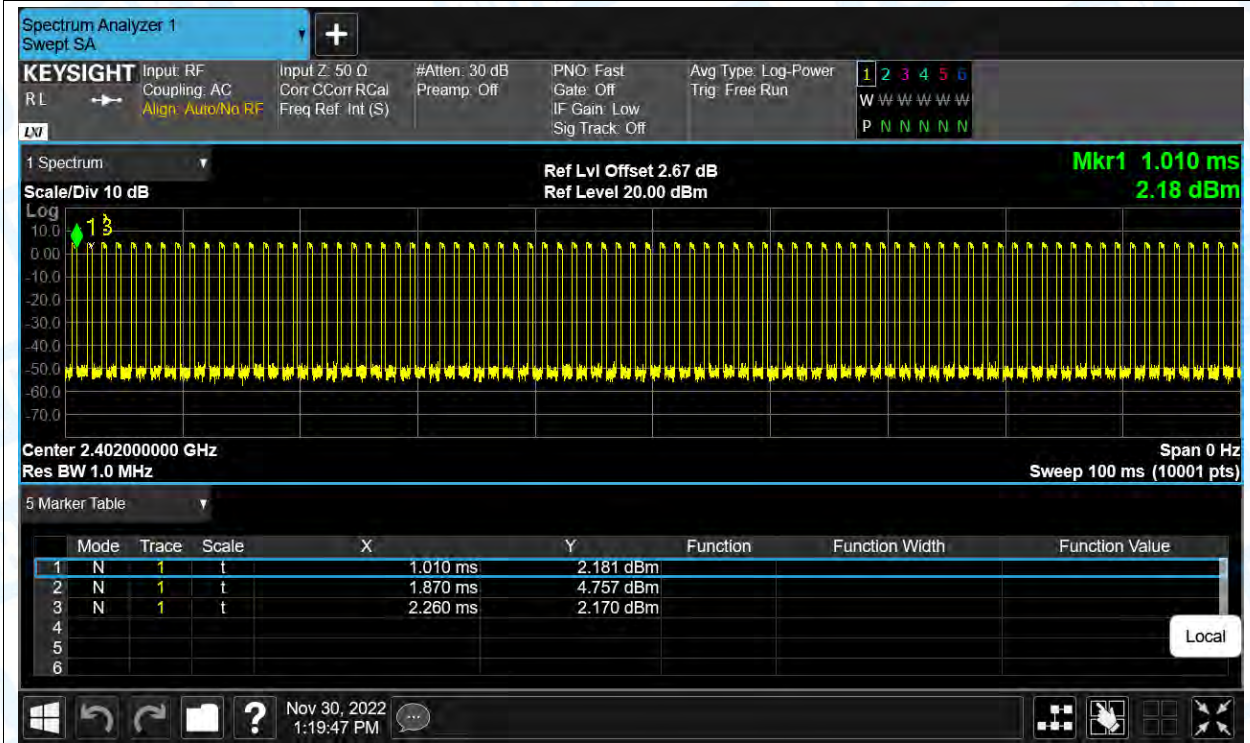
Duty Cycle NVNT 2-DH1 2441MHz Ant1



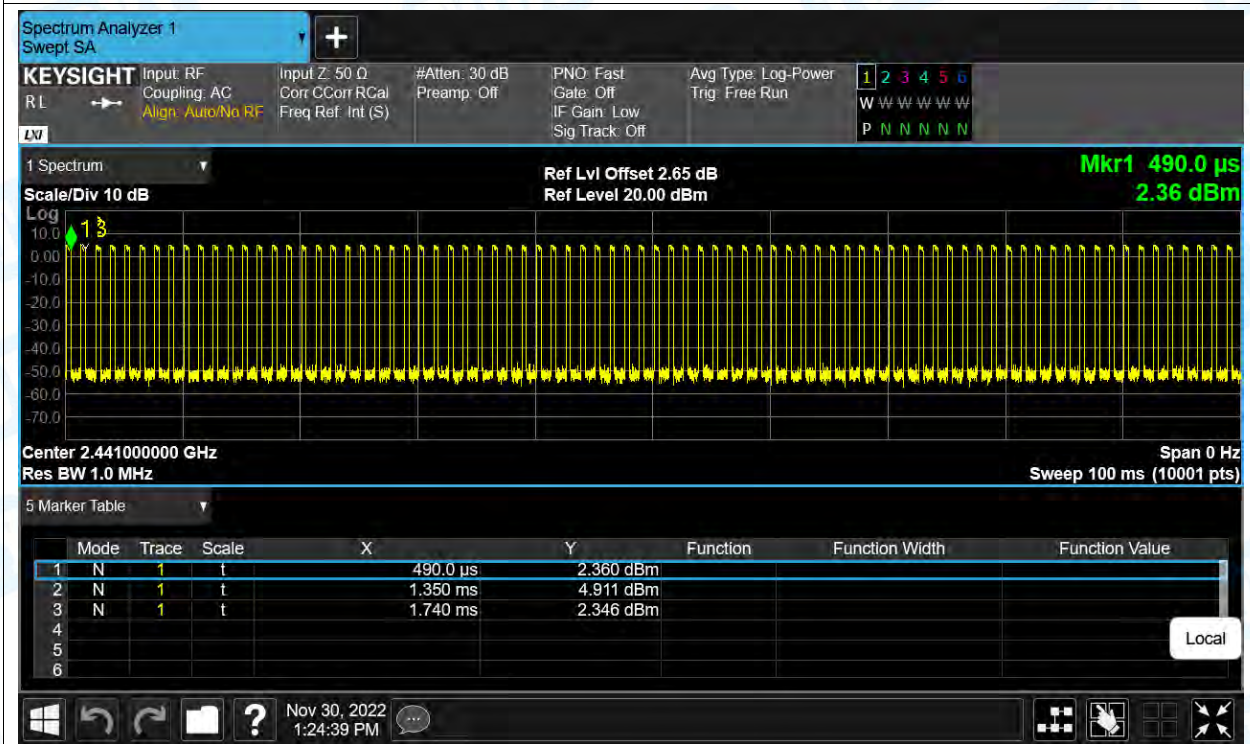
Duty Cycle NVNT 2-DH1 2480MHz Ant1

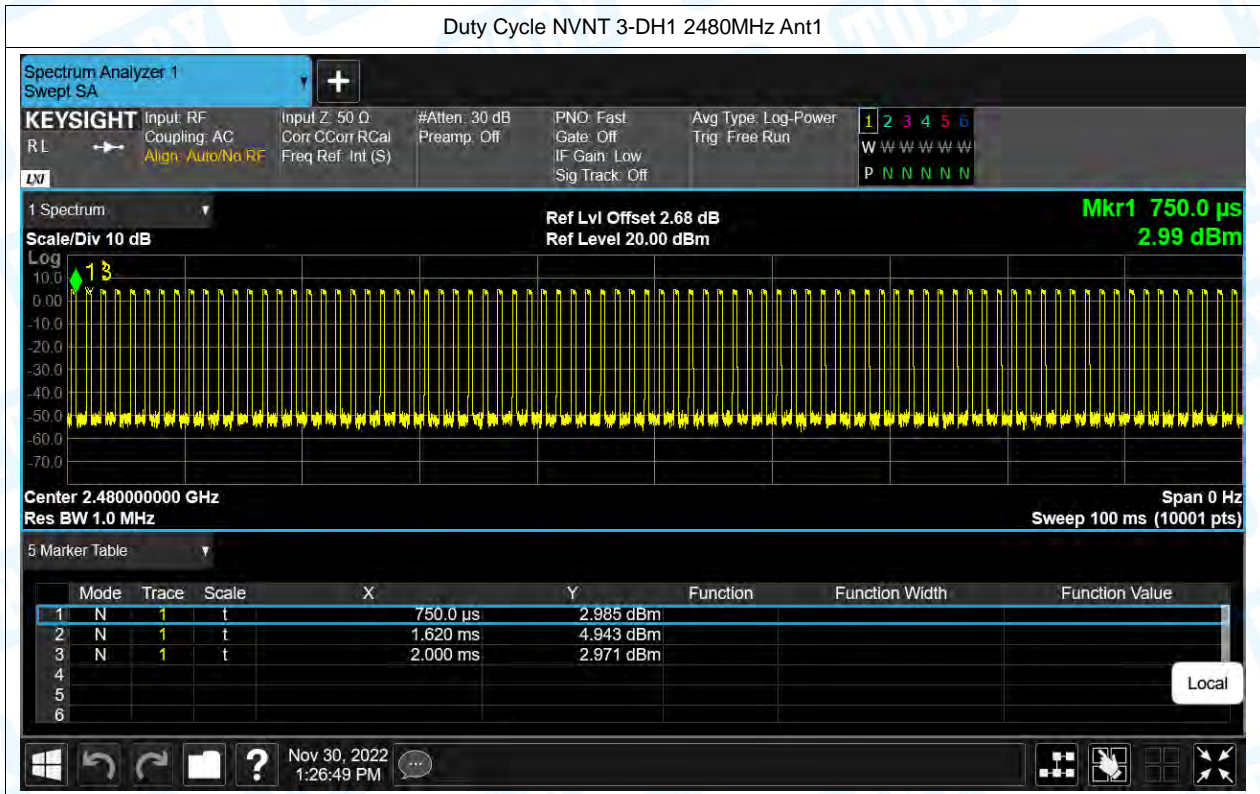


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1





2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	5.66	21	Pass
NVNT	1-DH1	2441	Ant1	5.81	21	Pass
NVNT	1-DH1	2480	Ant1	5.81	21	Pass
NVNT	2-DH1	2402	Ant1	4.89	21	Pass
NVNT	2-DH1	2441	Ant1	5.06	21	Pass
NVNT	2-DH1	2480	Ant1	5.12	21	Pass
NVNT	3-DH1	2402	Ant1	4.884	21	Pass
NVNT	3-DH1	2441	Ant1	5.07	21	Pass
NVNT	3-DH1	2480	Ant1	5.04	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



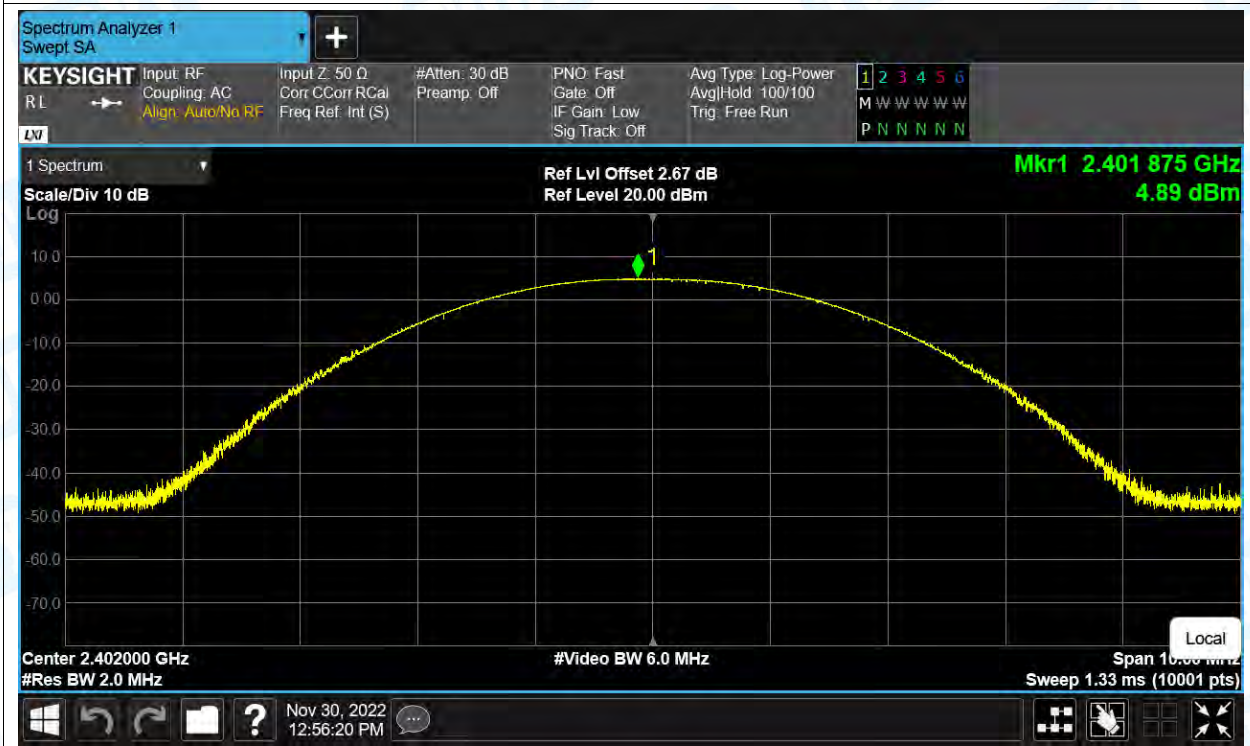
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1



Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1

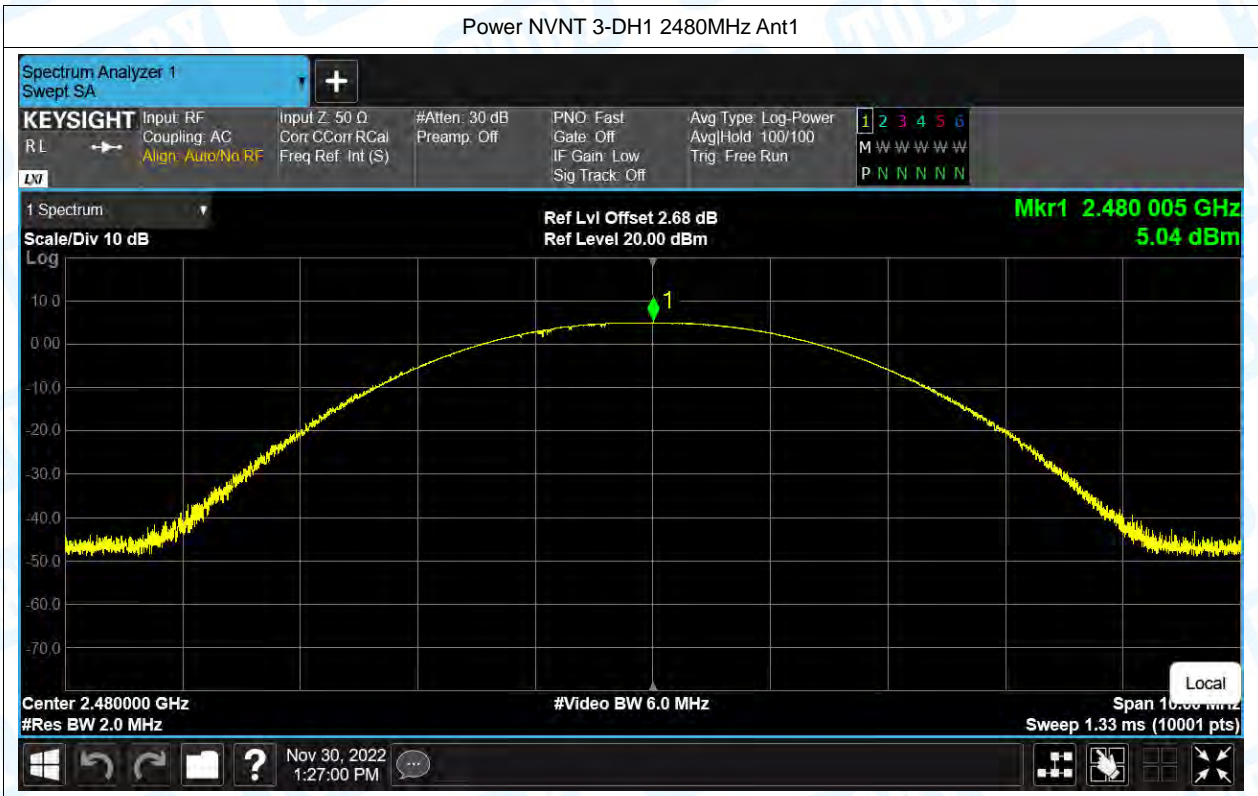


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1





3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.77	0	Pass
NVNT	1-DH1	2441	Ant1	0.83	0	Pass
NVNT	1-DH1	2480	Ant1	0.77	0	Pass
NVNT	2-DH1	2402	Ant1	1.2	0	Pass
NVNT	2-DH1	2441	Ant1	1.24	0	Pass
NVNT	2-DH1	2480	Ant1	1.21	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.22	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



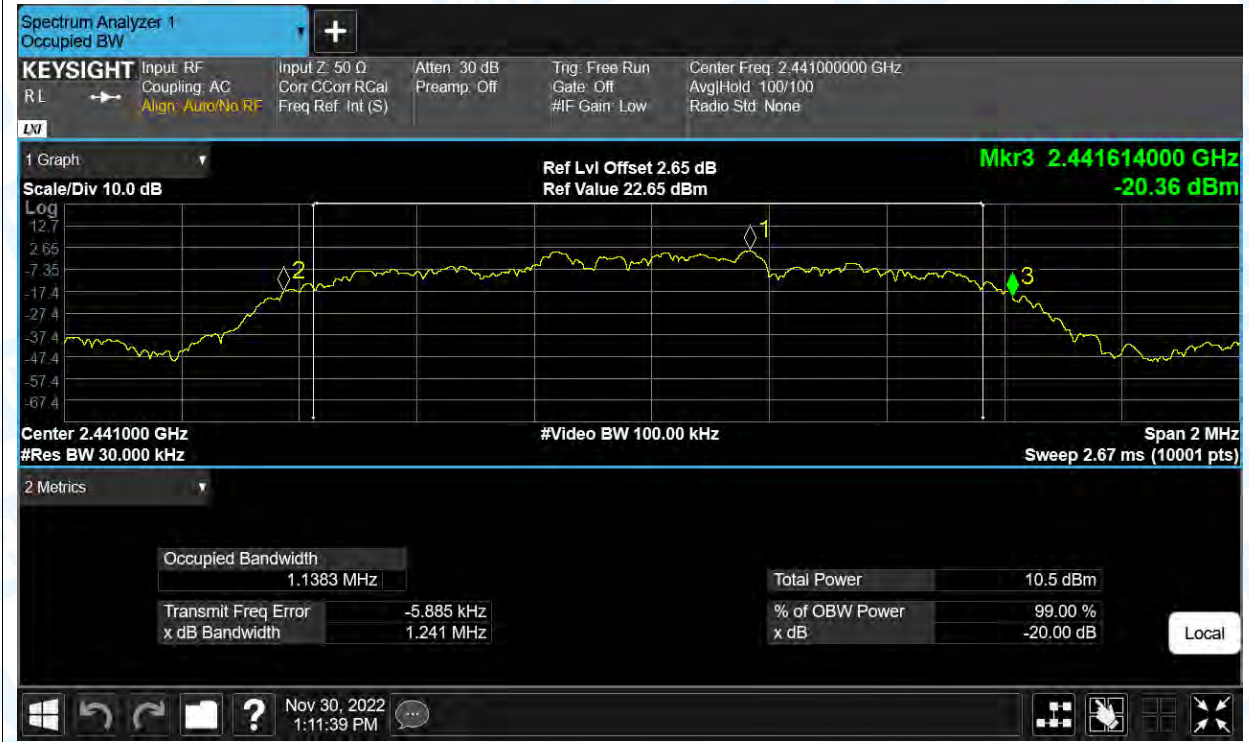
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



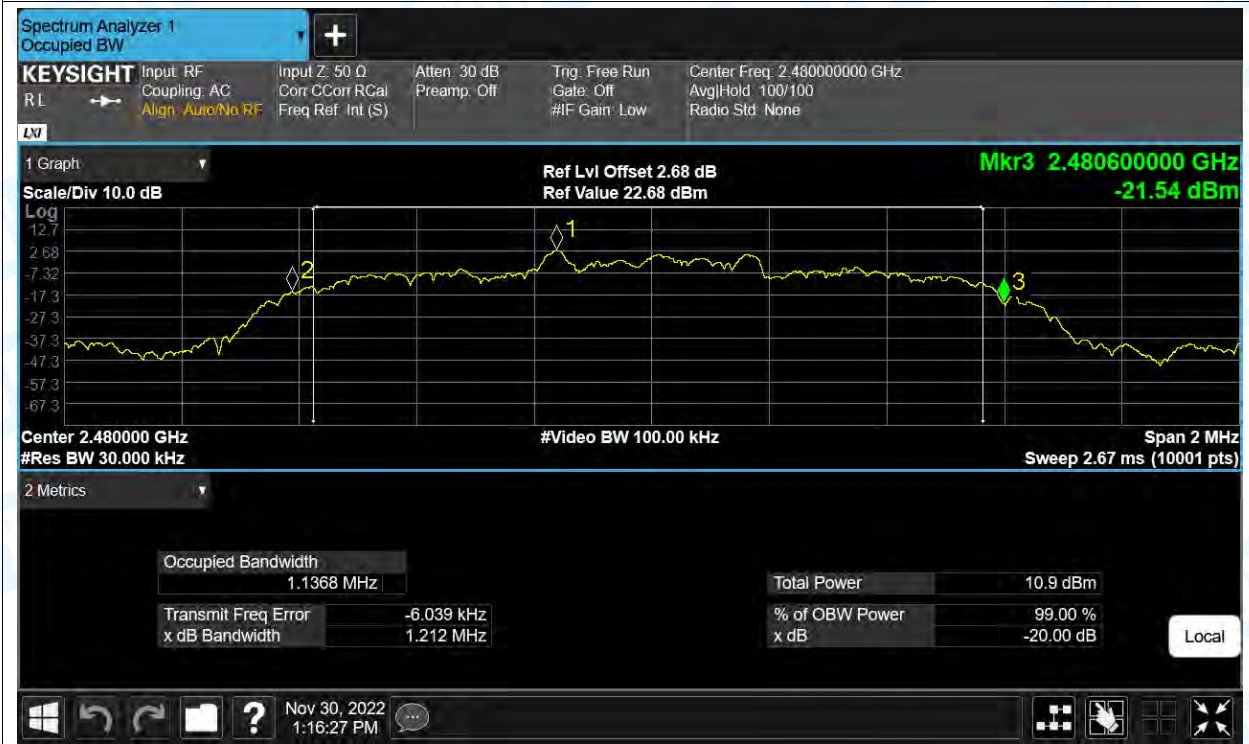
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



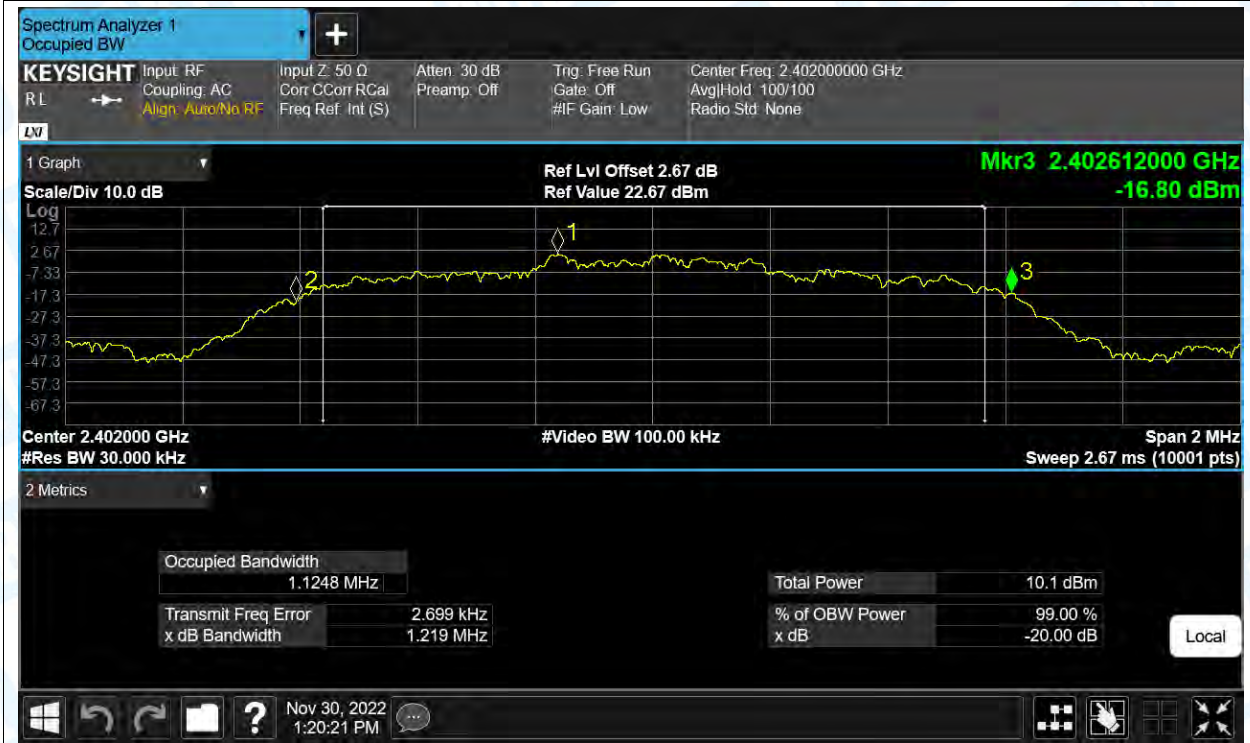
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

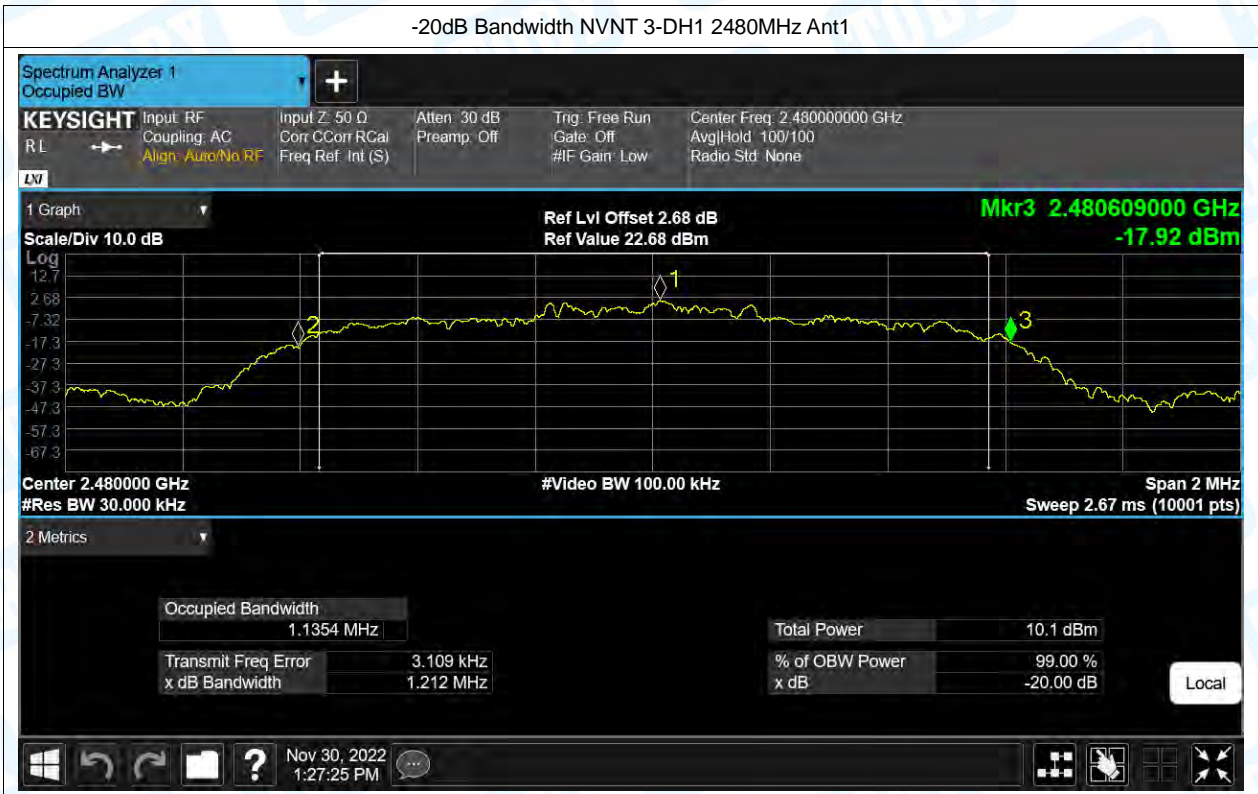


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



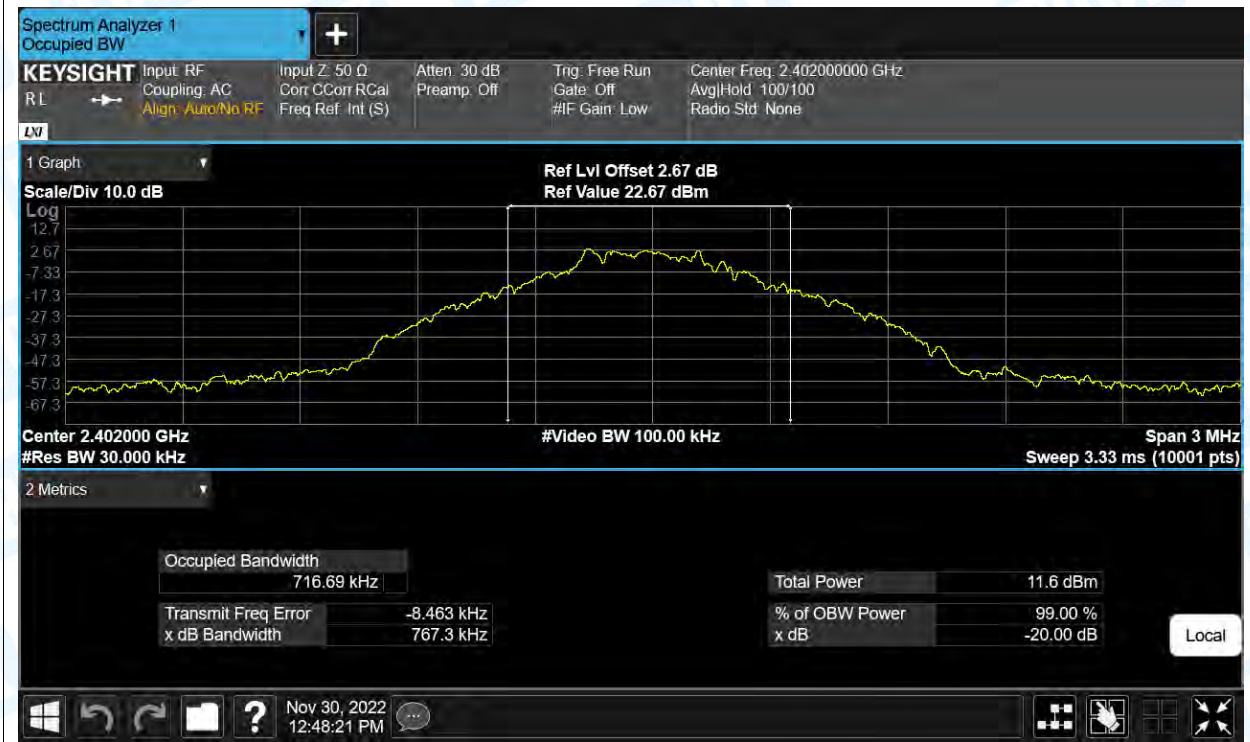


4. Occupied Channel Bandwidth

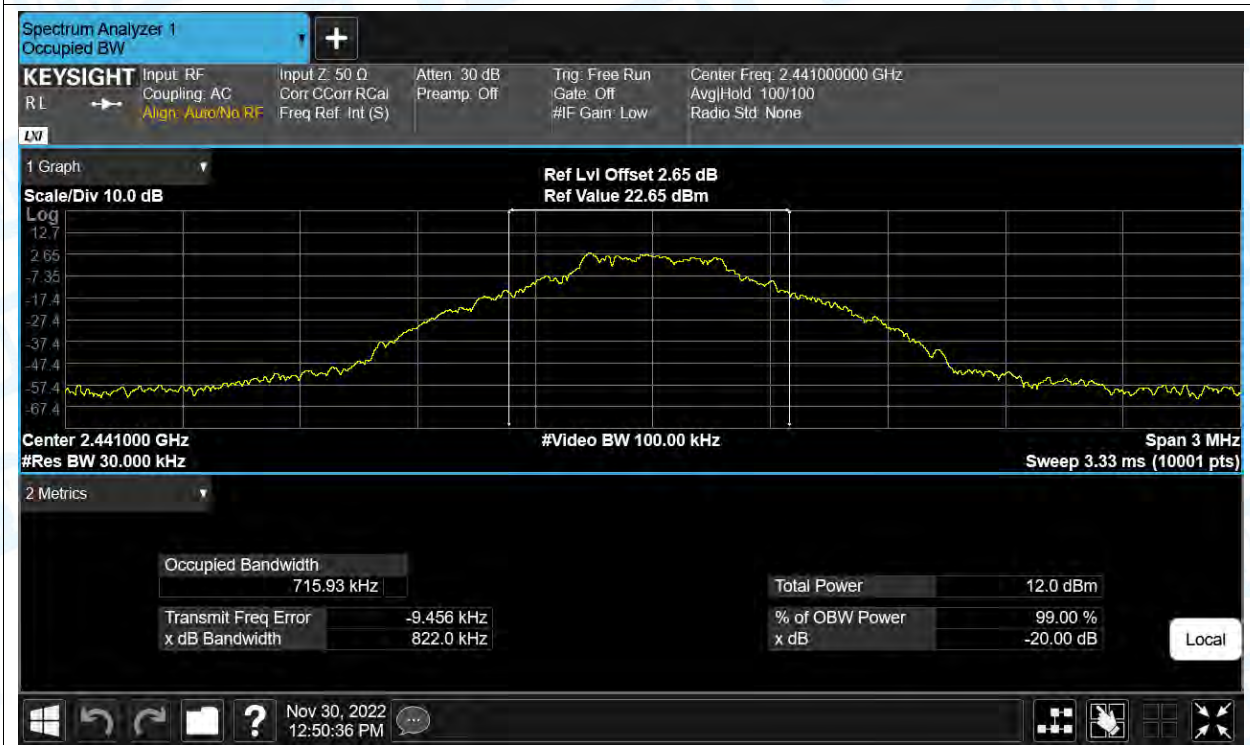
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.717
NVNT	1-DH1	2441	Ant1	0.716
NVNT	1-DH1	2480	Ant1	0.712
NVNT	2-DH1	2402	Ant1	1.13
NVNT	2-DH1	2441	Ant1	1.127
NVNT	2-DH1	2480	Ant1	1.136
NVNT	3-DH1	2402	Ant1	1.152
NVNT	3-DH1	2441	Ant1	1.131
NVNT	3-DH1	2480	Ant1	1.132

Test Graphs

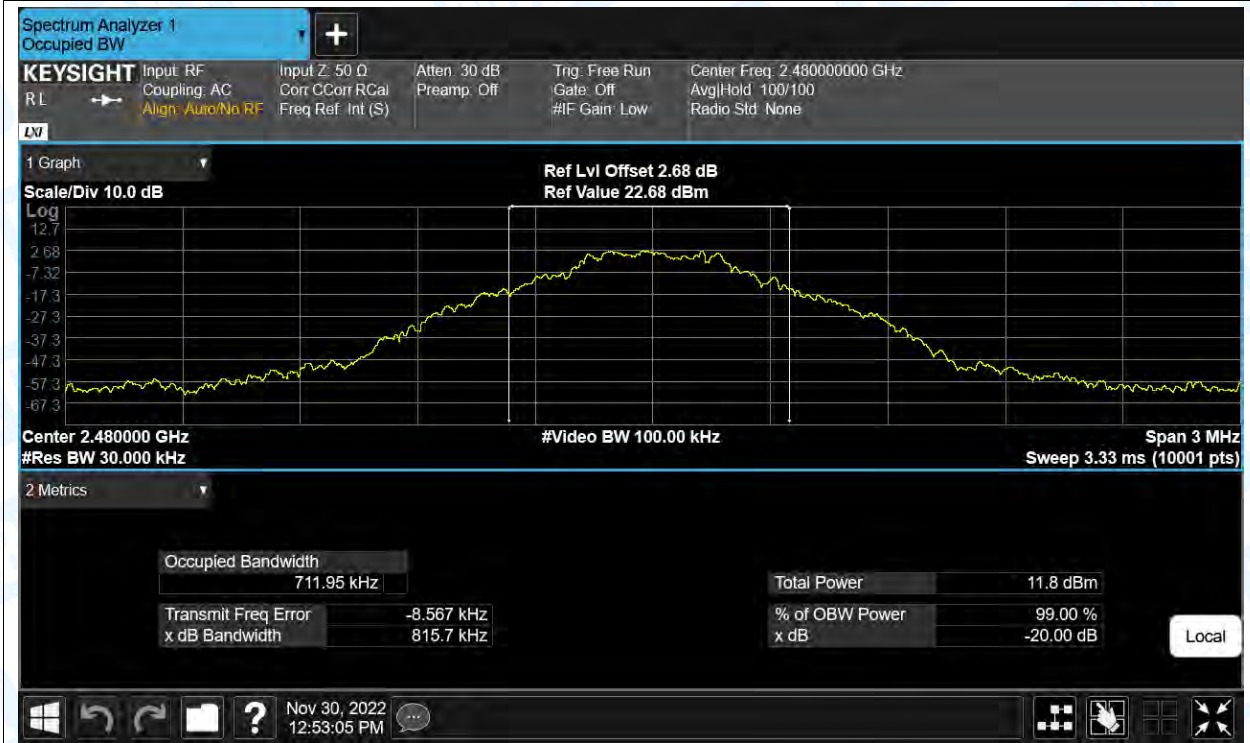
OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1



OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1



OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

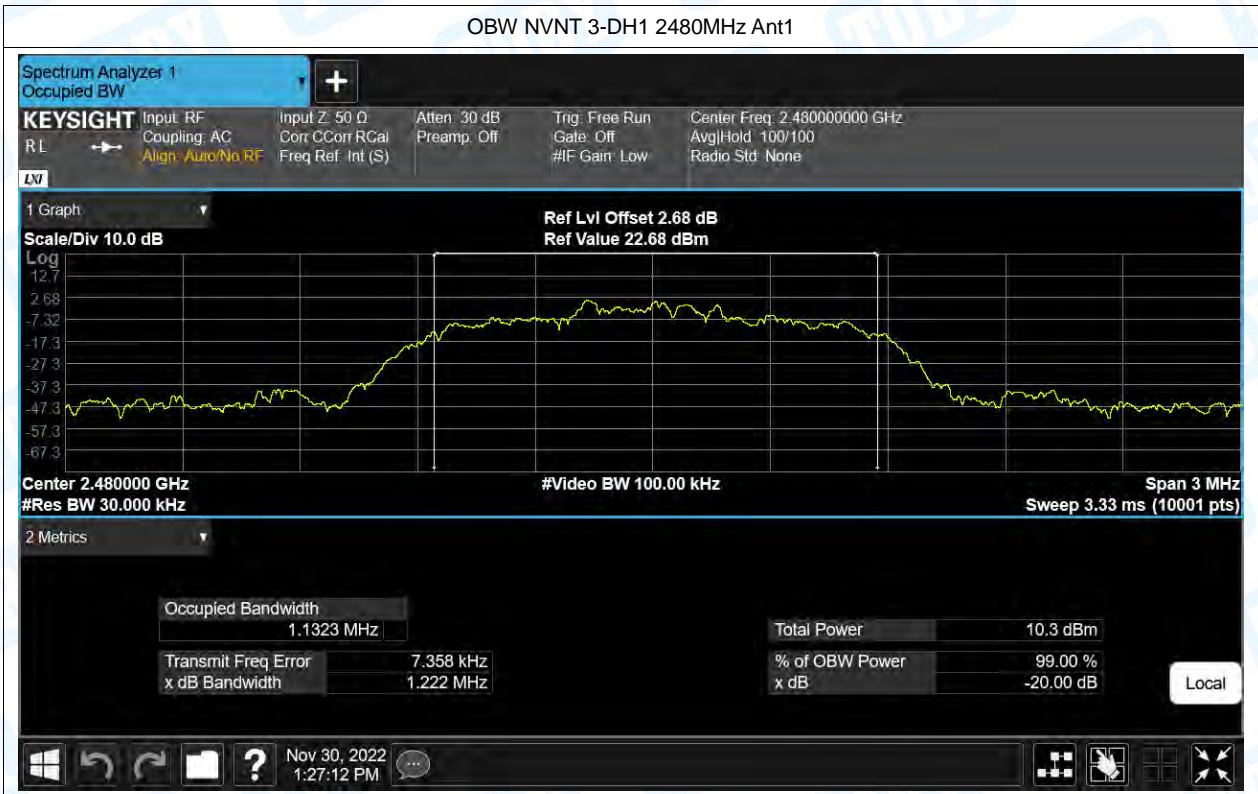


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



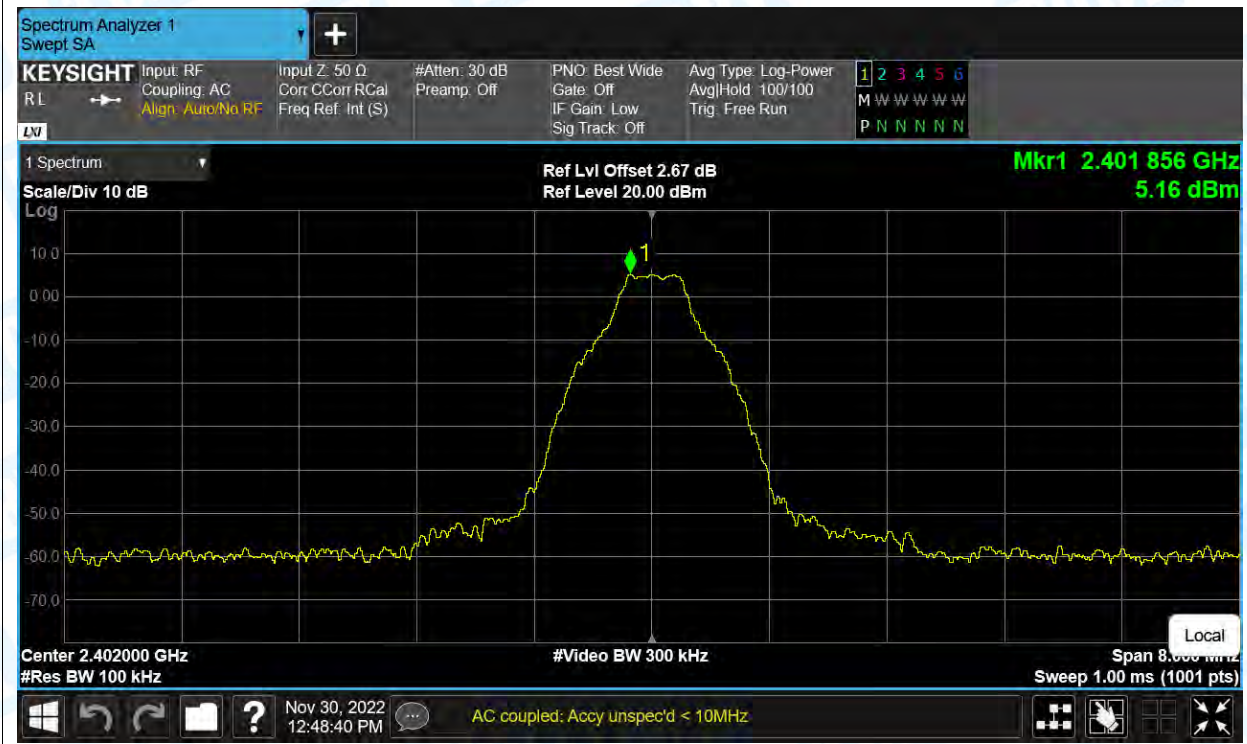


5. Band Edge

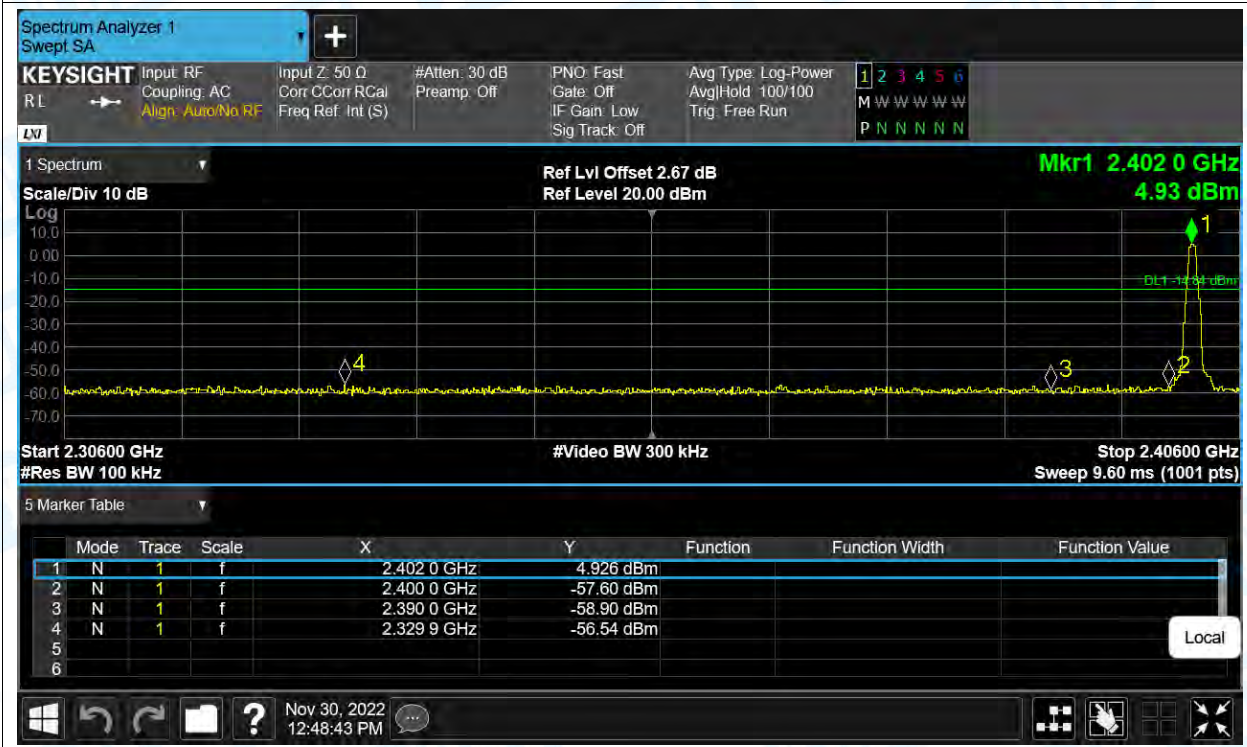
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-61.7	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-61.78	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-60.21	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-60.64	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-58.97	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-61.04	-20	Pass

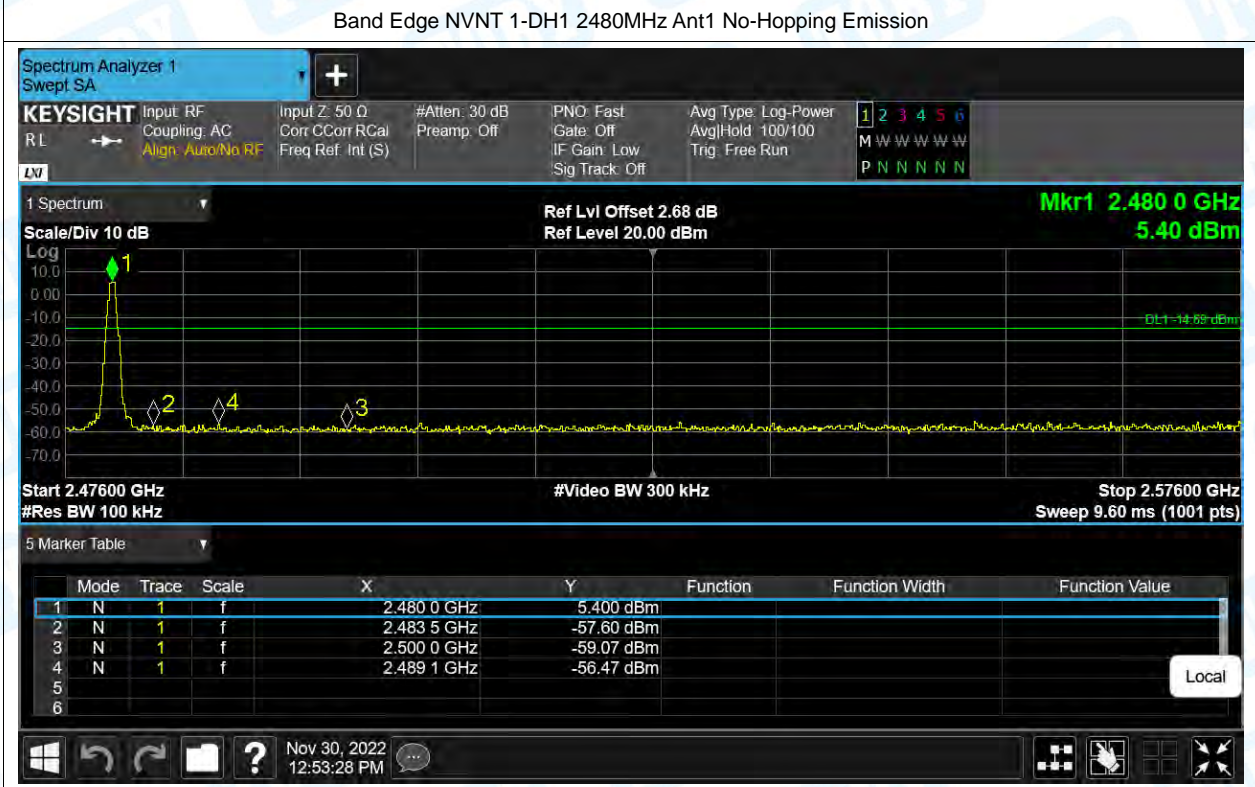
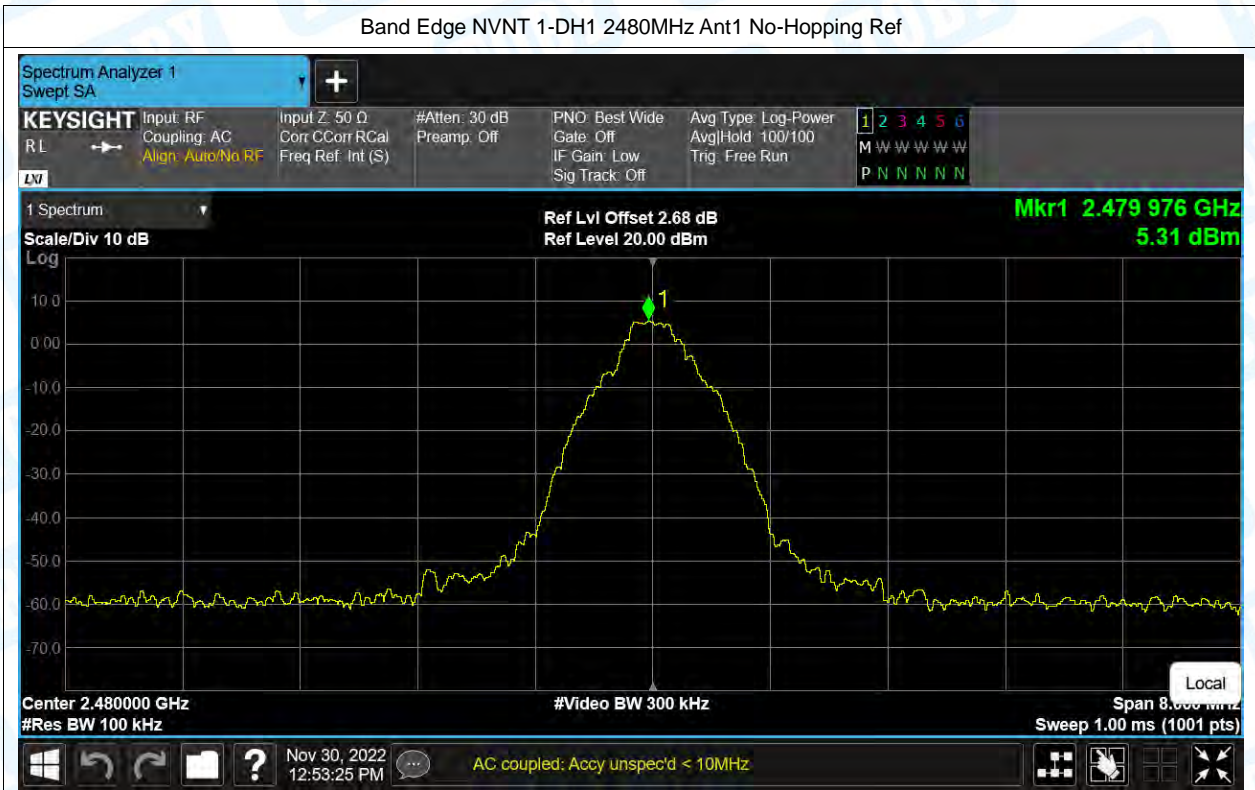
Test Graphs

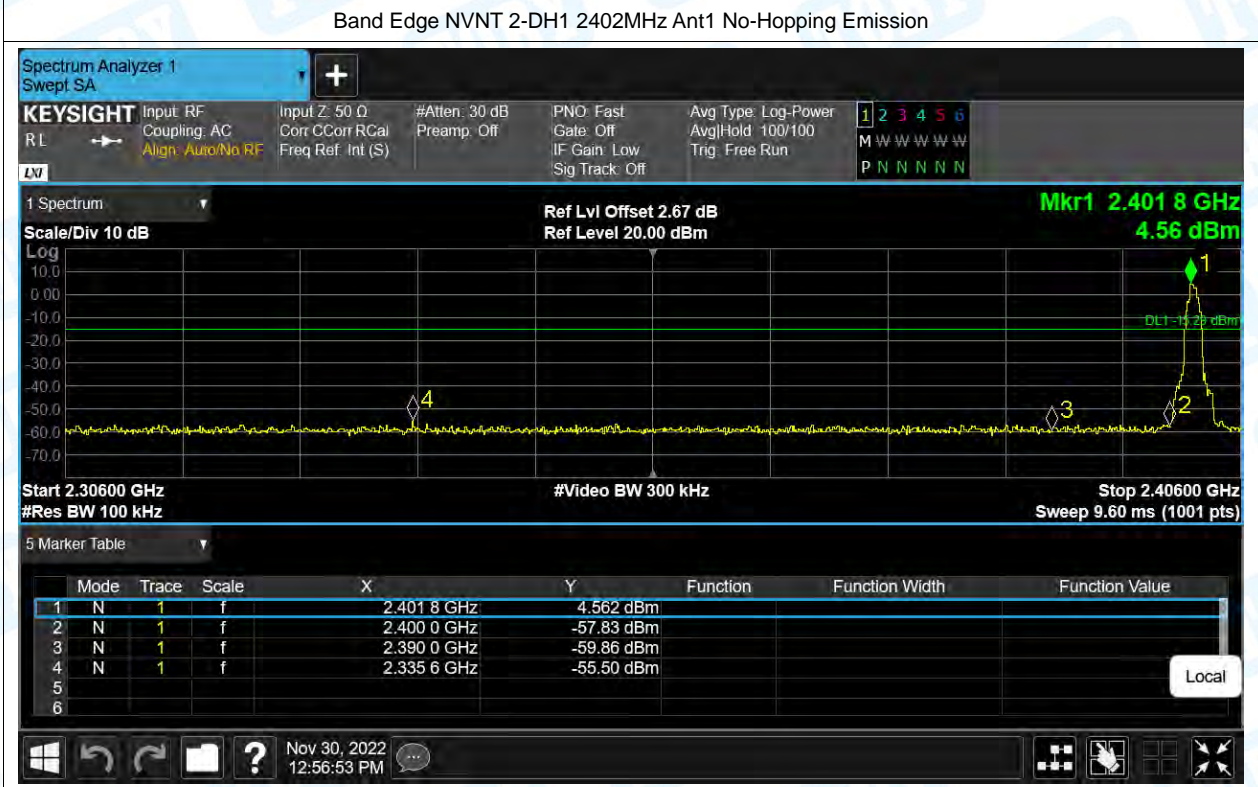
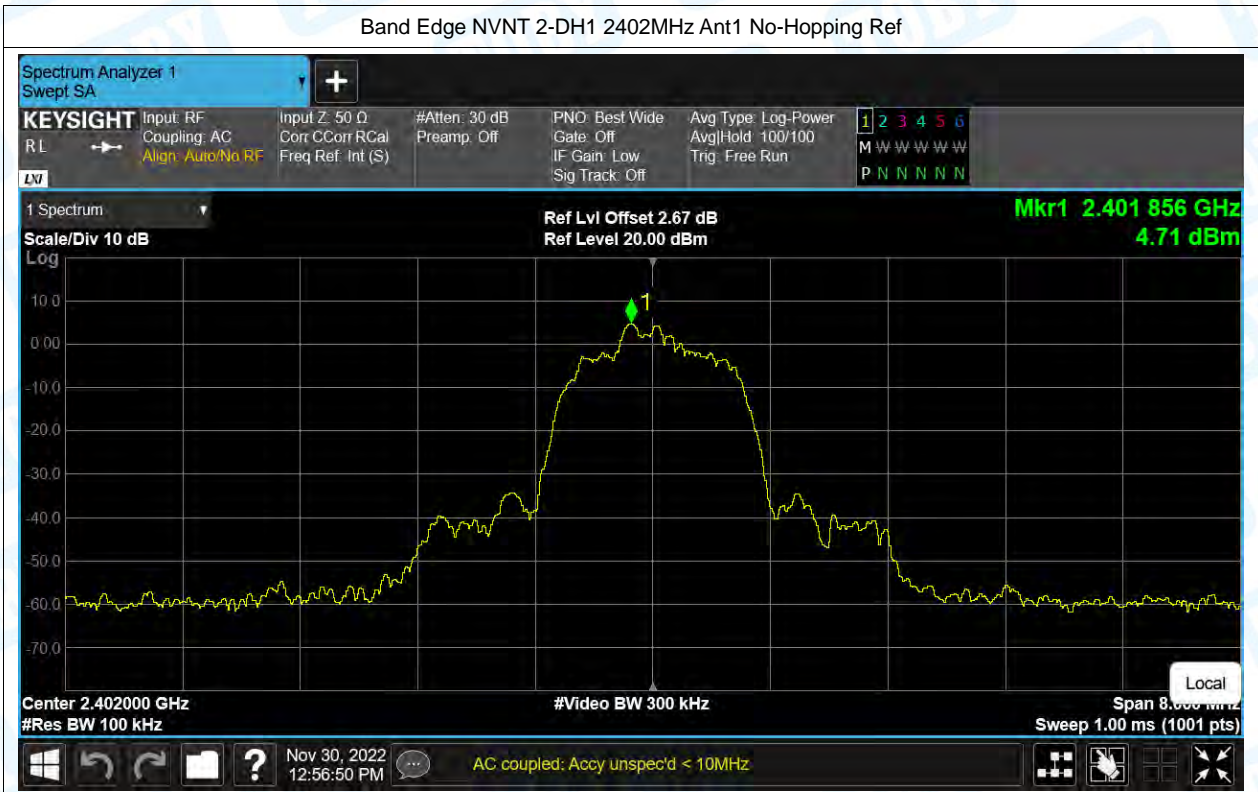
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

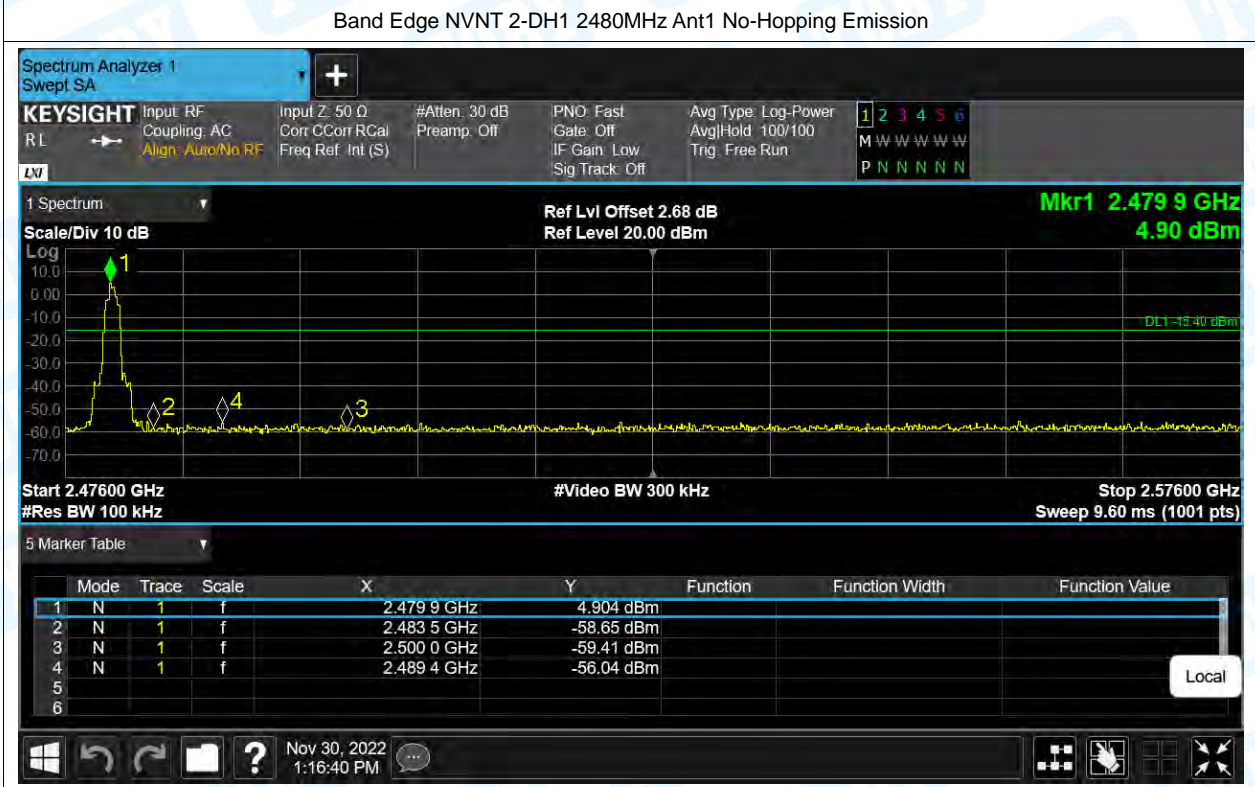
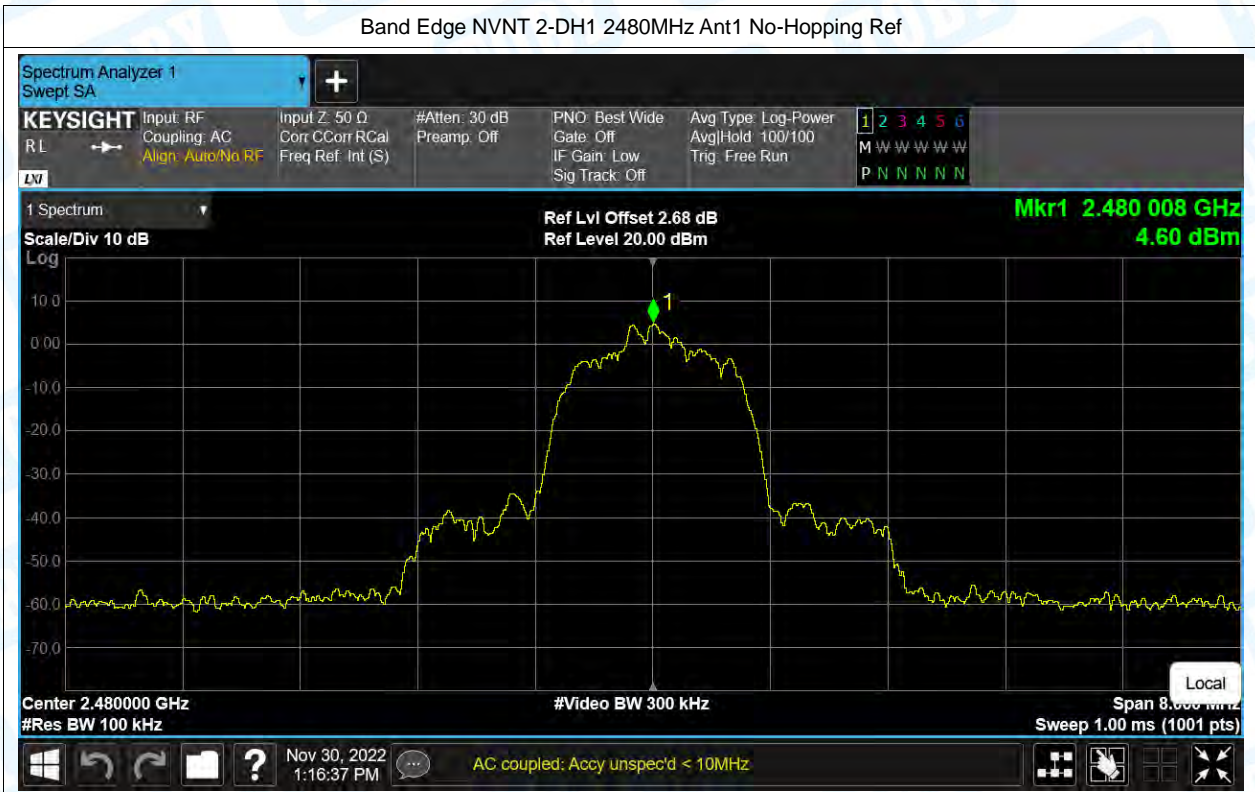


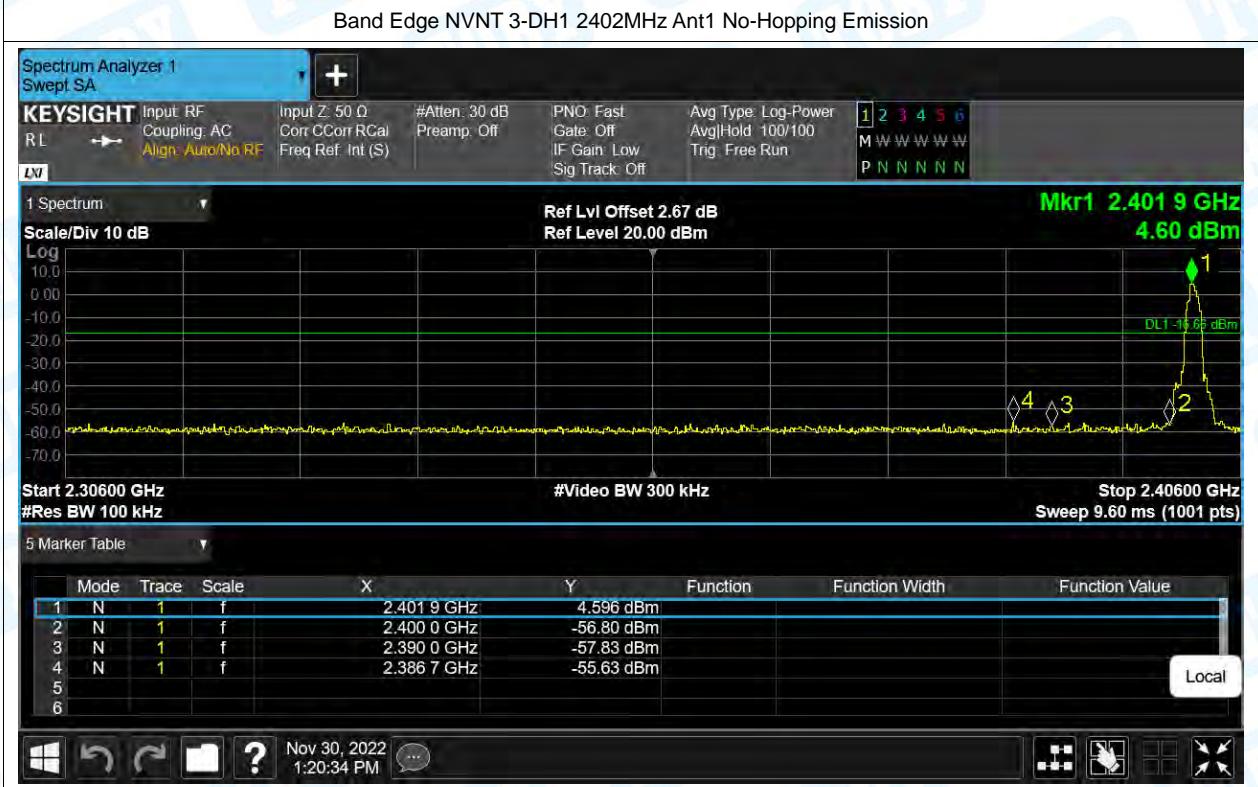
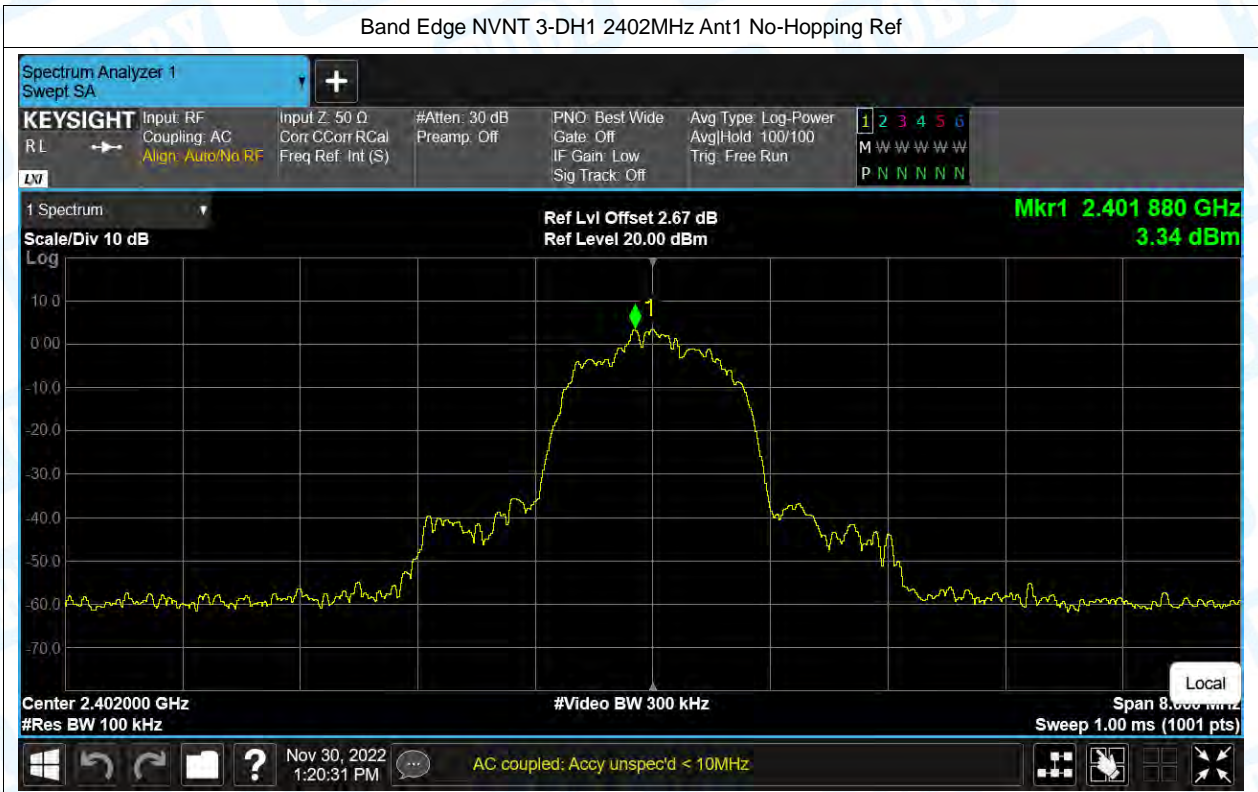
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

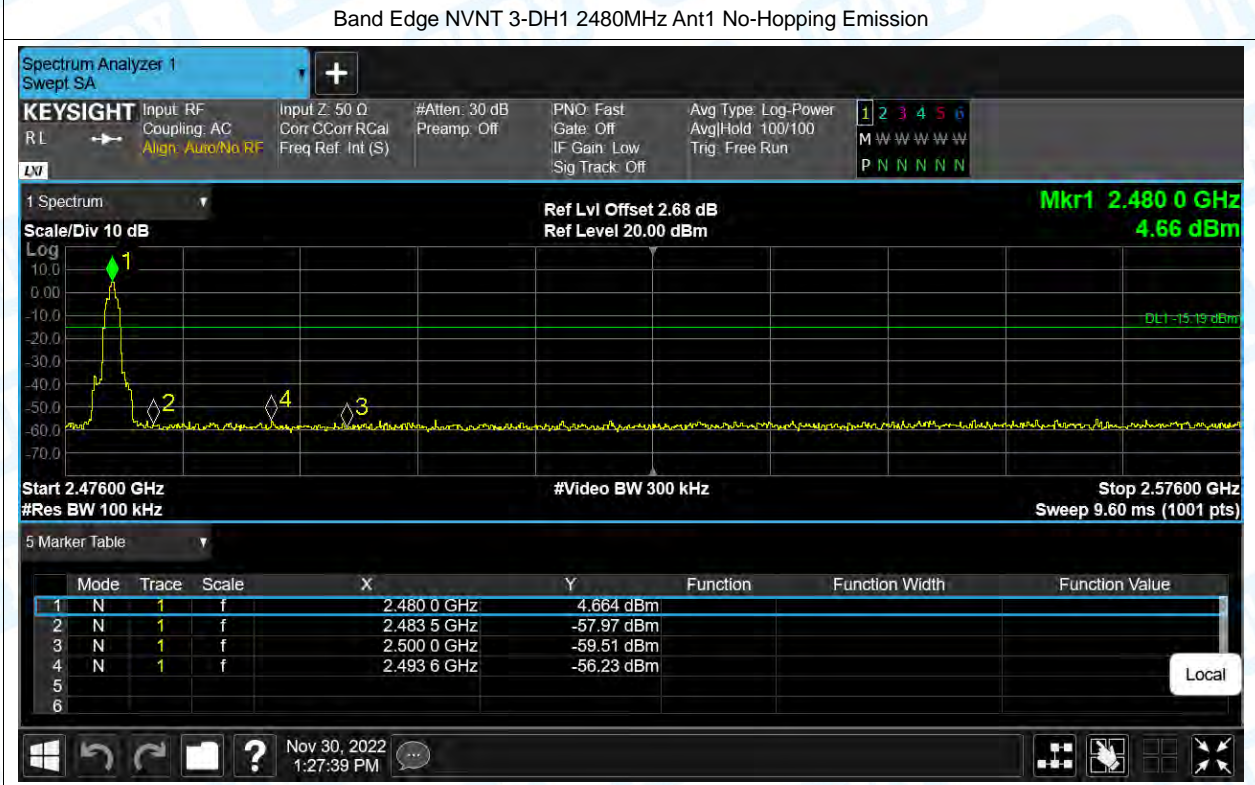
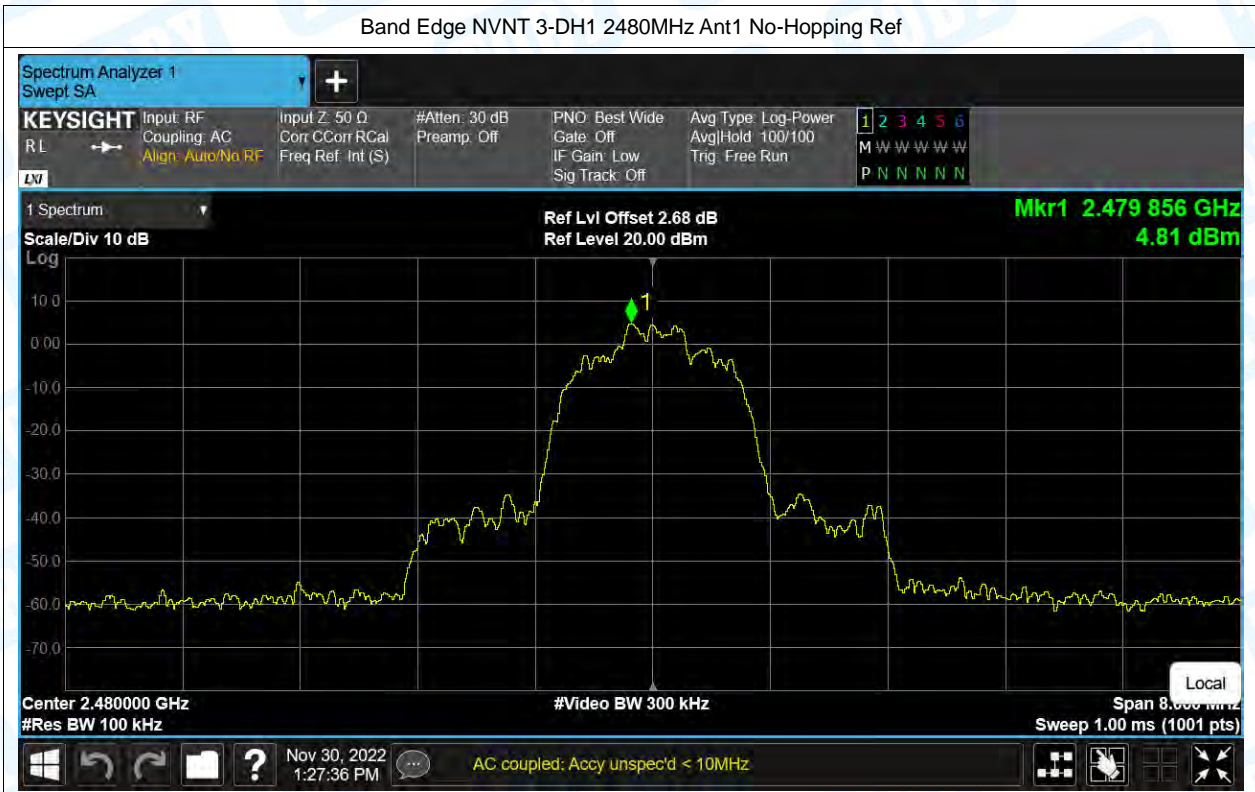












6. Band Edge(Hopping)

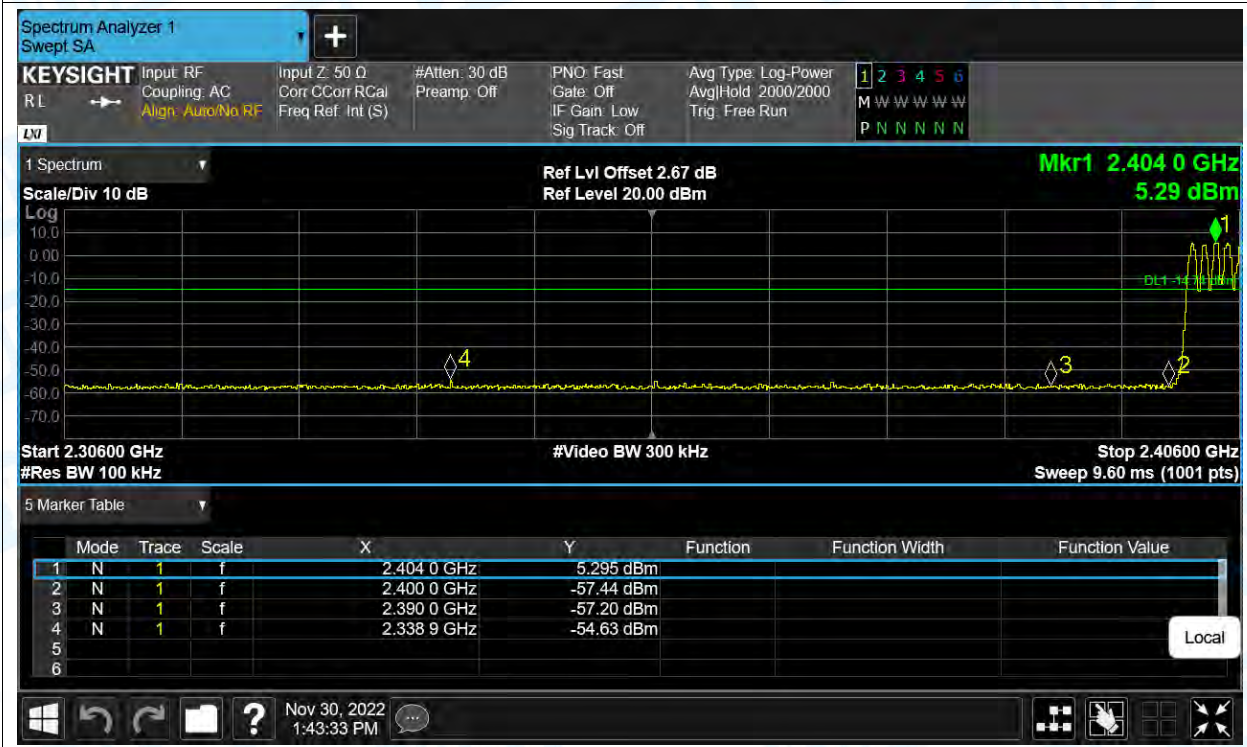
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-59.89	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-60.47	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-60.1	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-60.3	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-59.69	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-59.43	-20	Pass

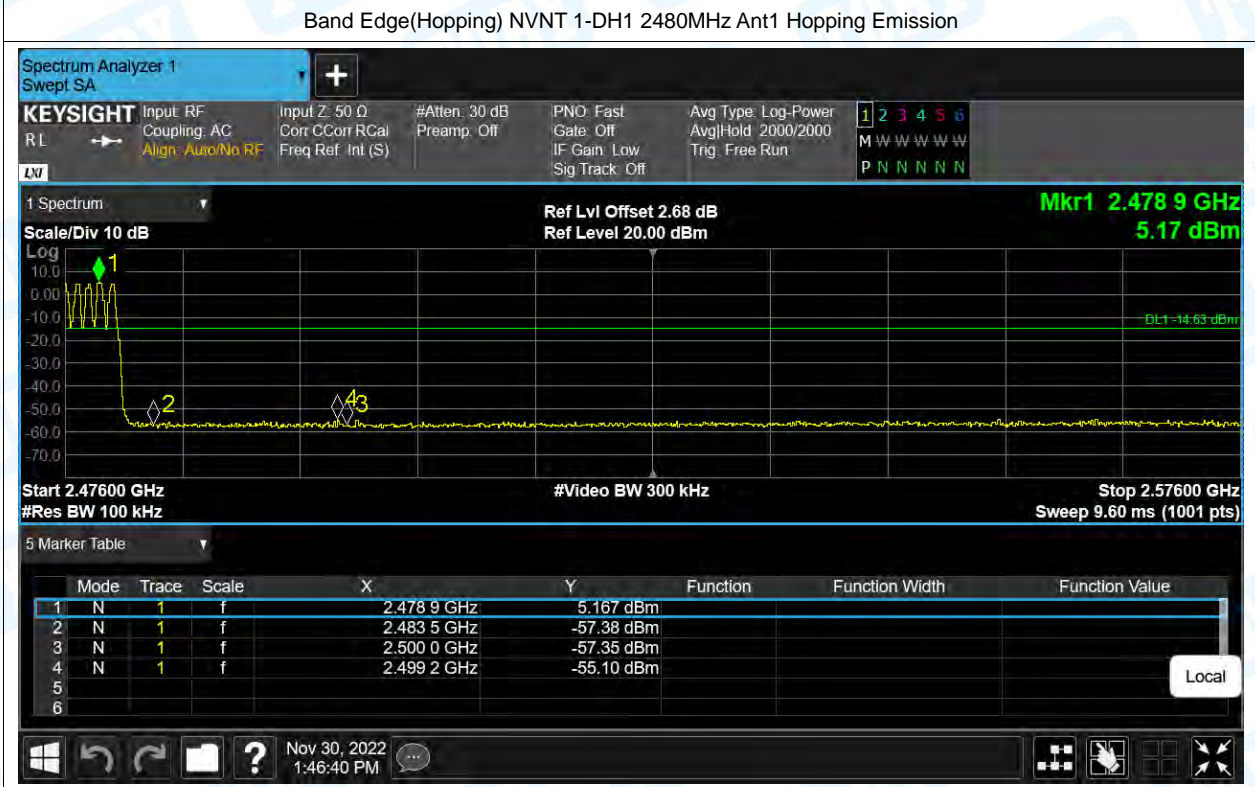
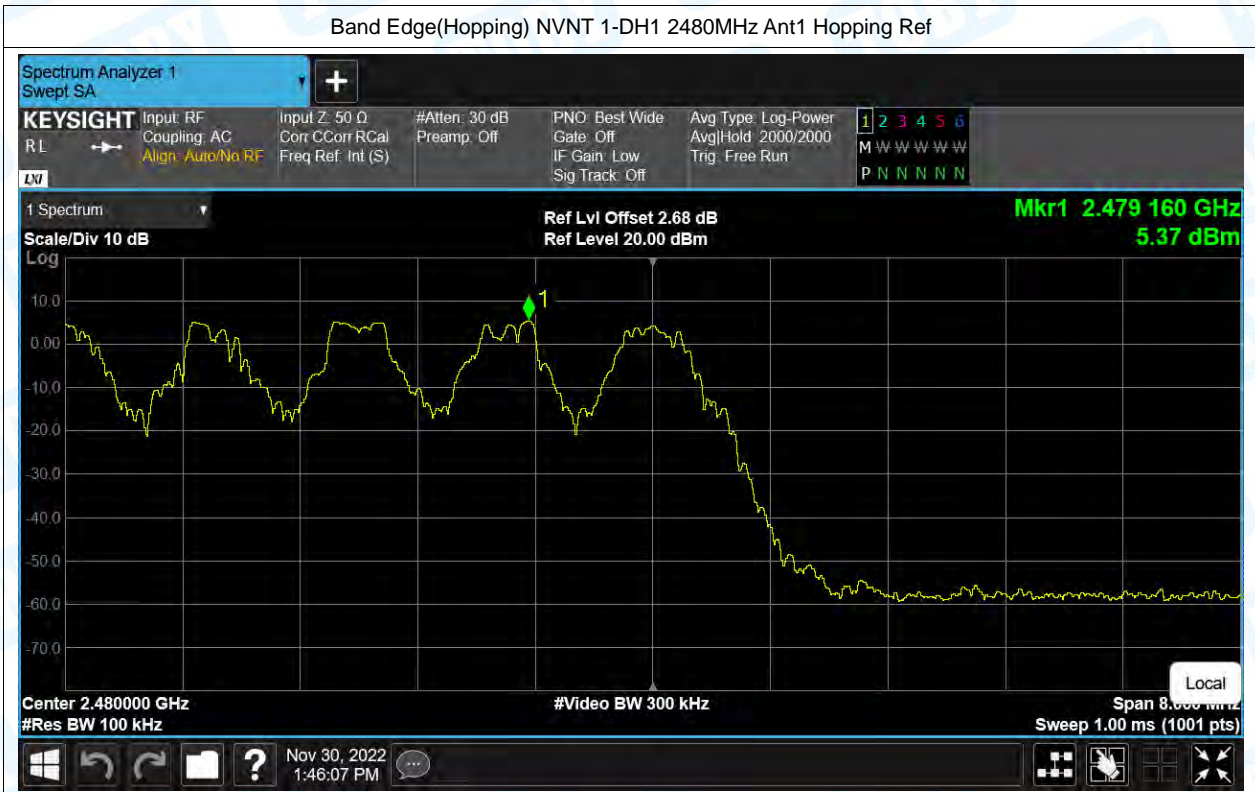
Test Graphs

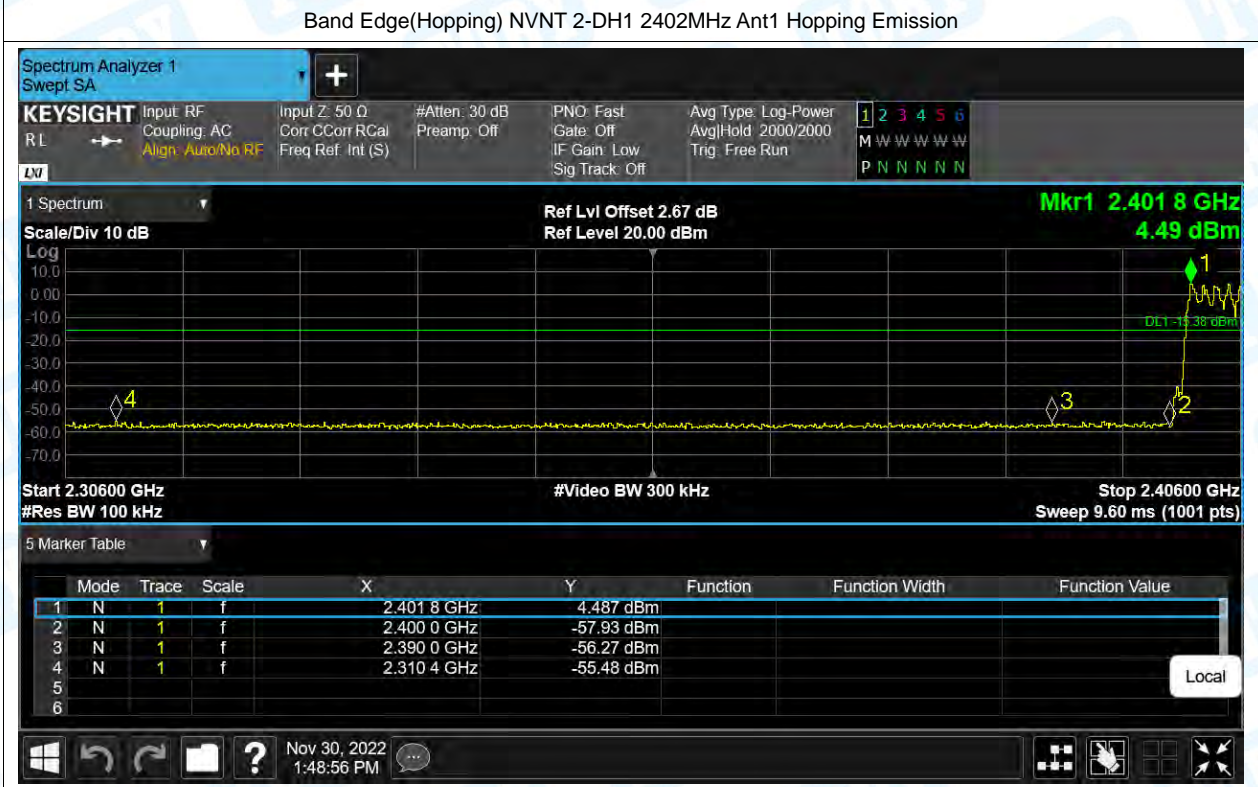
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

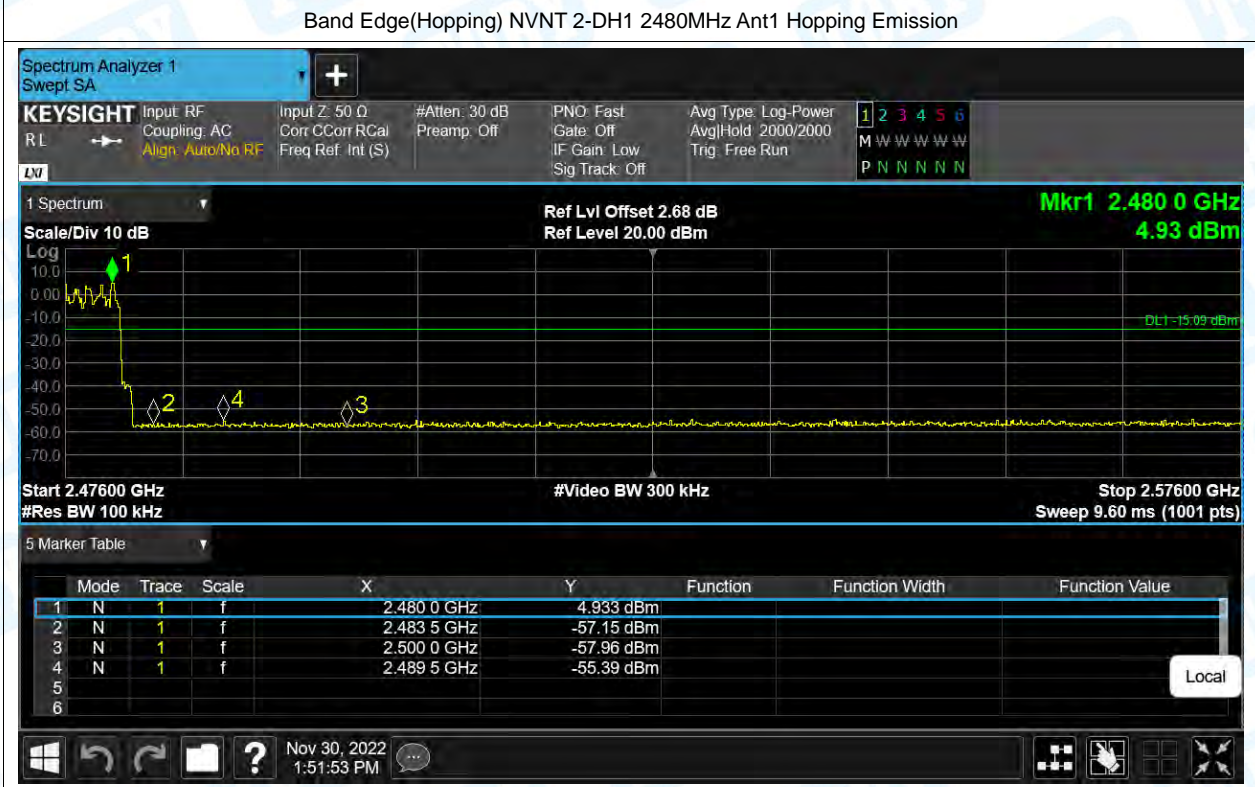


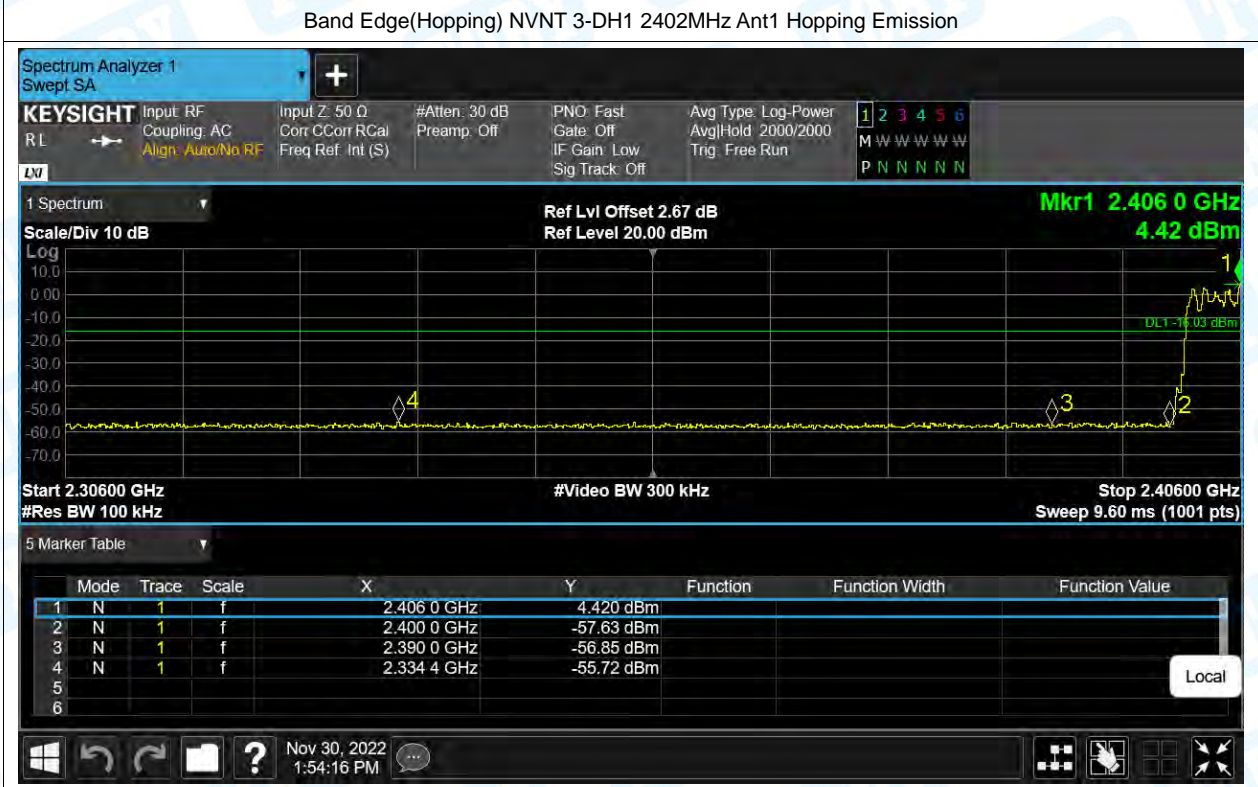
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

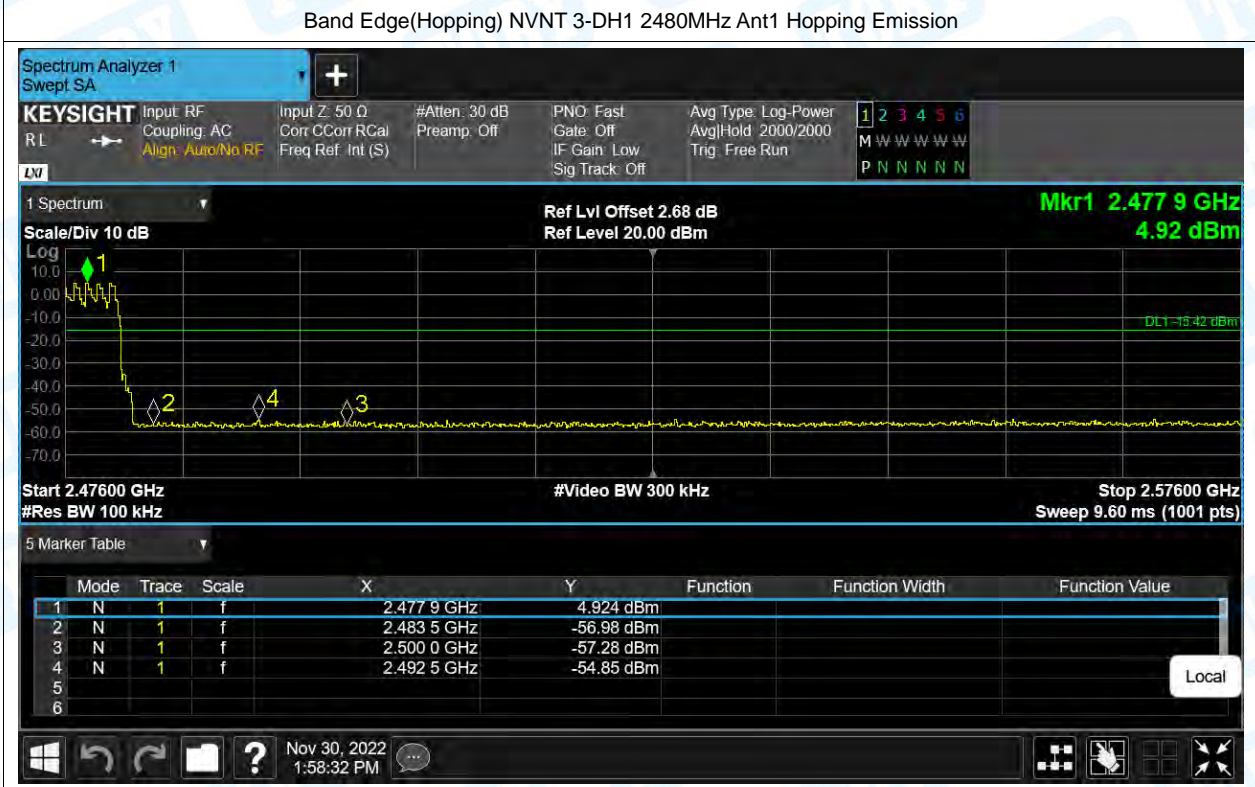












7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-55.14	-20	Pass
NVNT	1-DH1	2441	Ant1	-56.93	-20	Pass
NVNT	1-DH1	2480	Ant1	-57.14	-20	Pass
NVNT	2-DH1	2402	Ant1	-56.74	-20	Pass
NVNT	2-DH1	2441	Ant1	-57.22	-20	Pass
NVNT	2-DH1	2480	Ant1	-56.17	-20	Pass
NVNT	3-DH1	2402	Ant1	-55.8	-20	Pass
NVNT	3-DH1	2441	Ant1	-56.18	-20	Pass
NVNT	3-DH1	2480	Ant1	-56.16	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



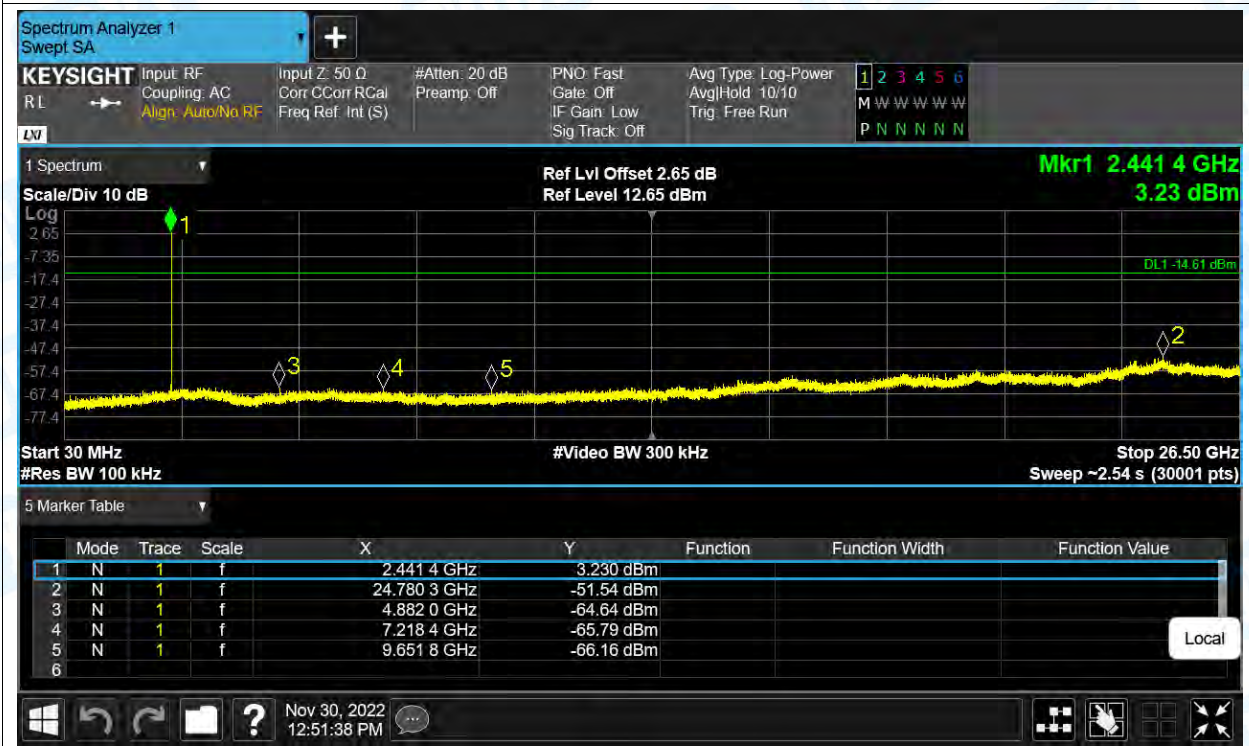
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



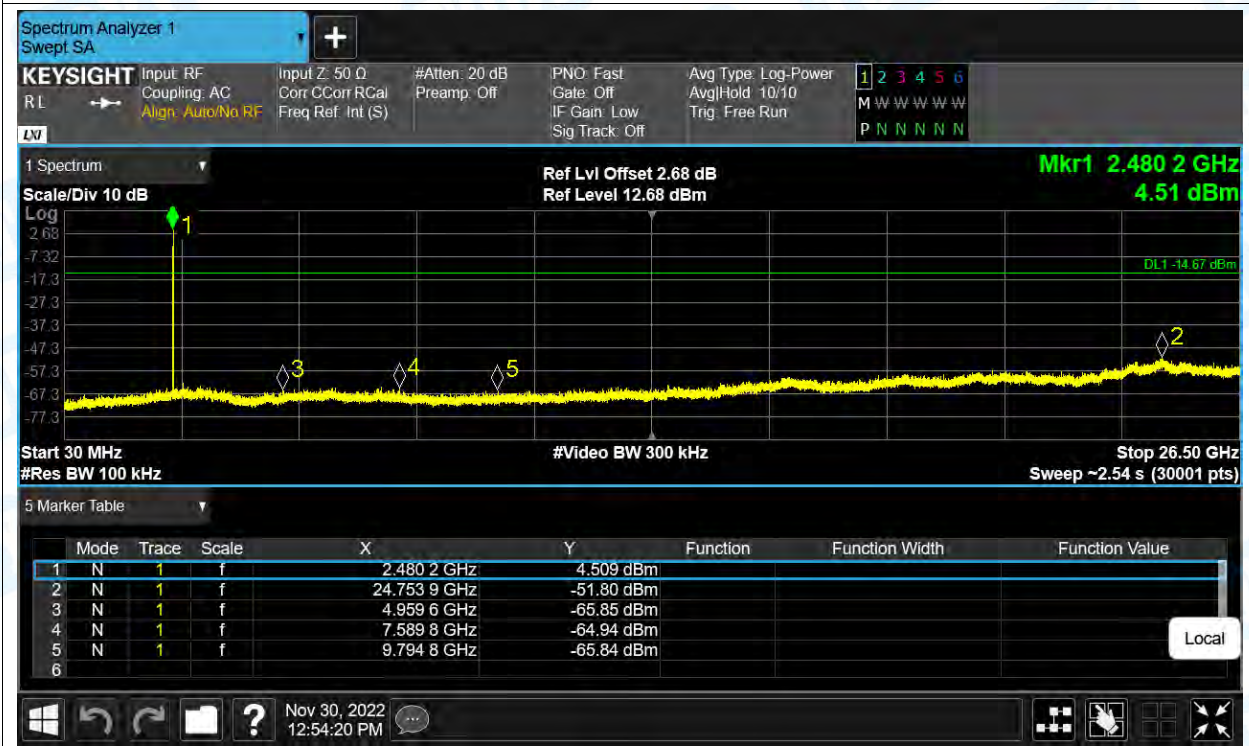
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



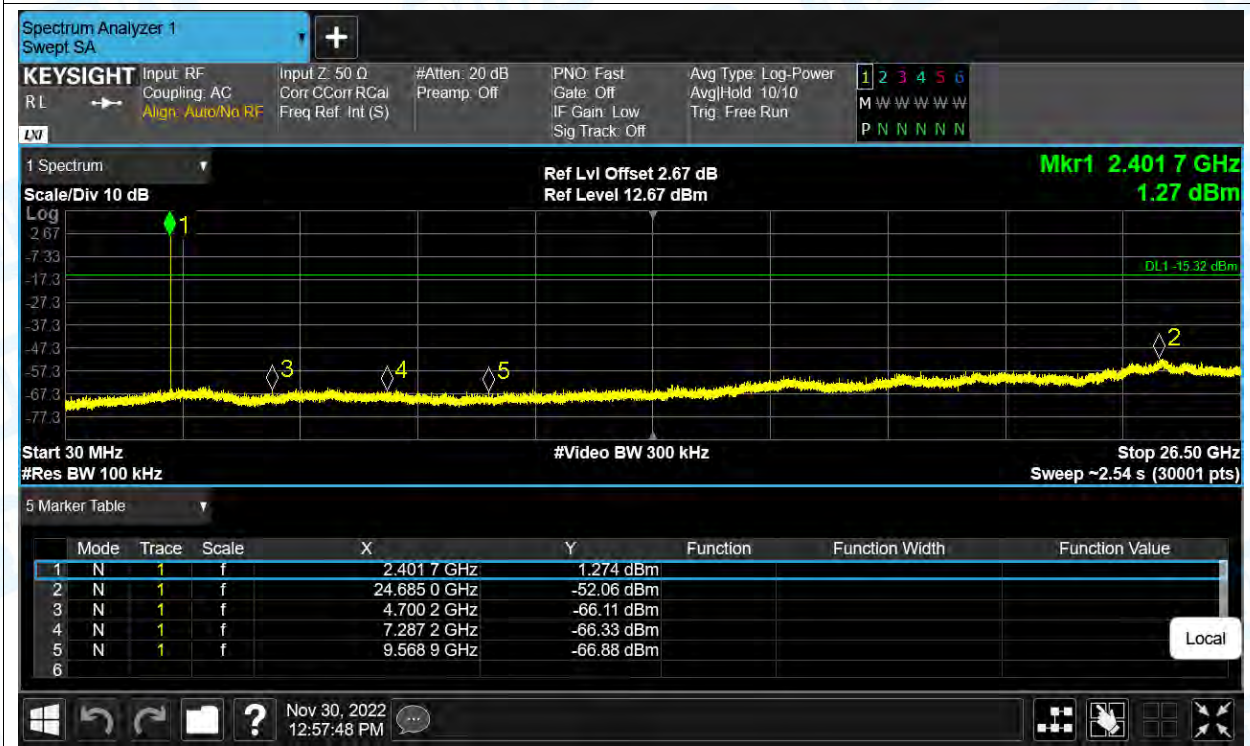
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



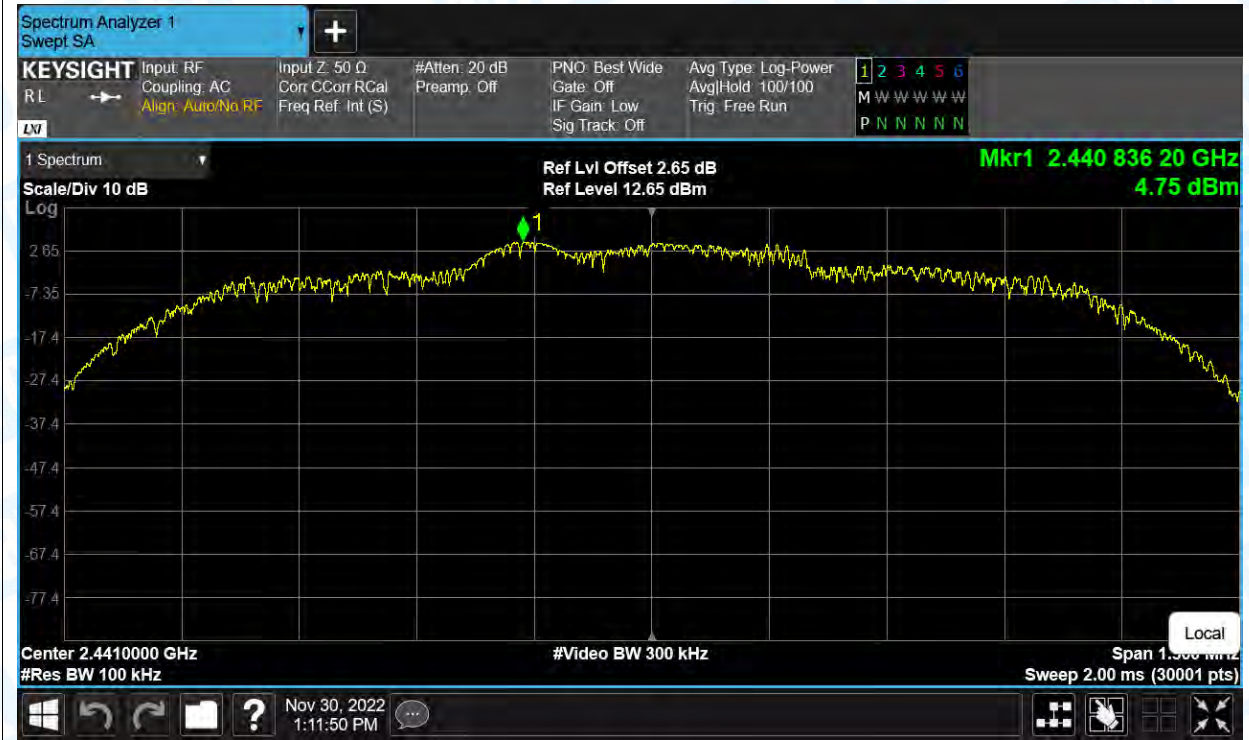
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



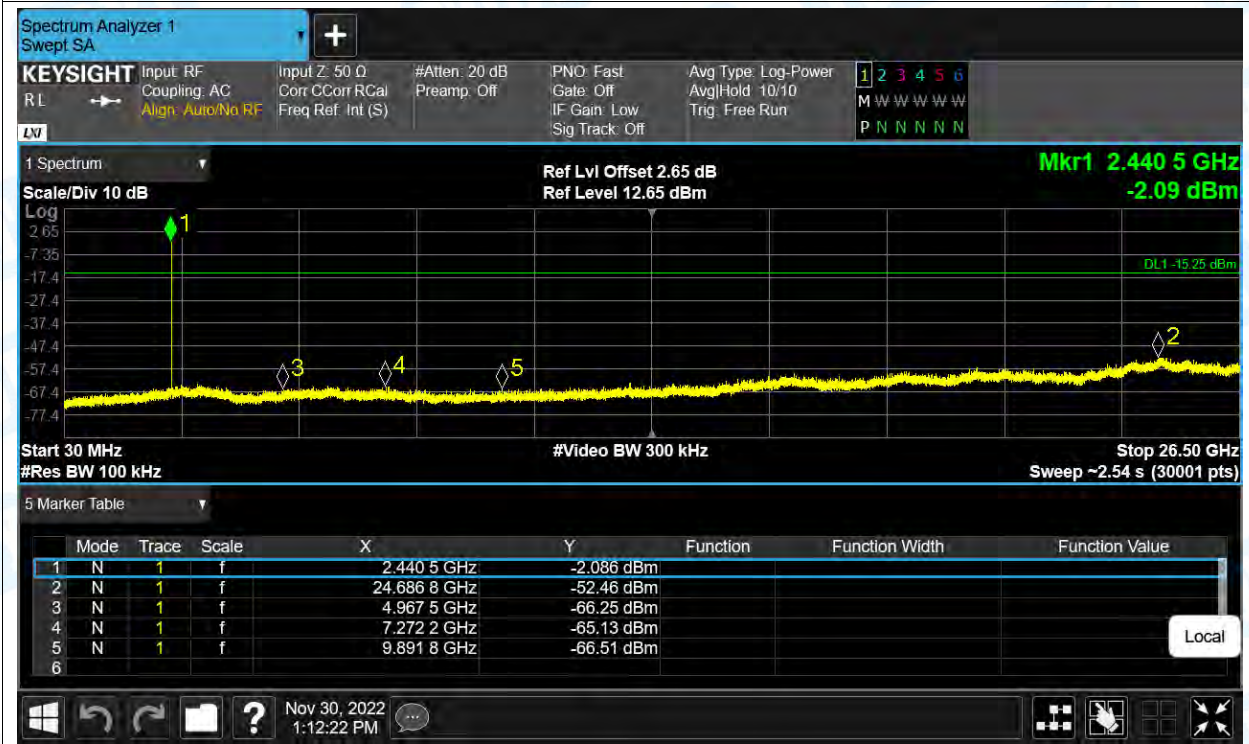
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



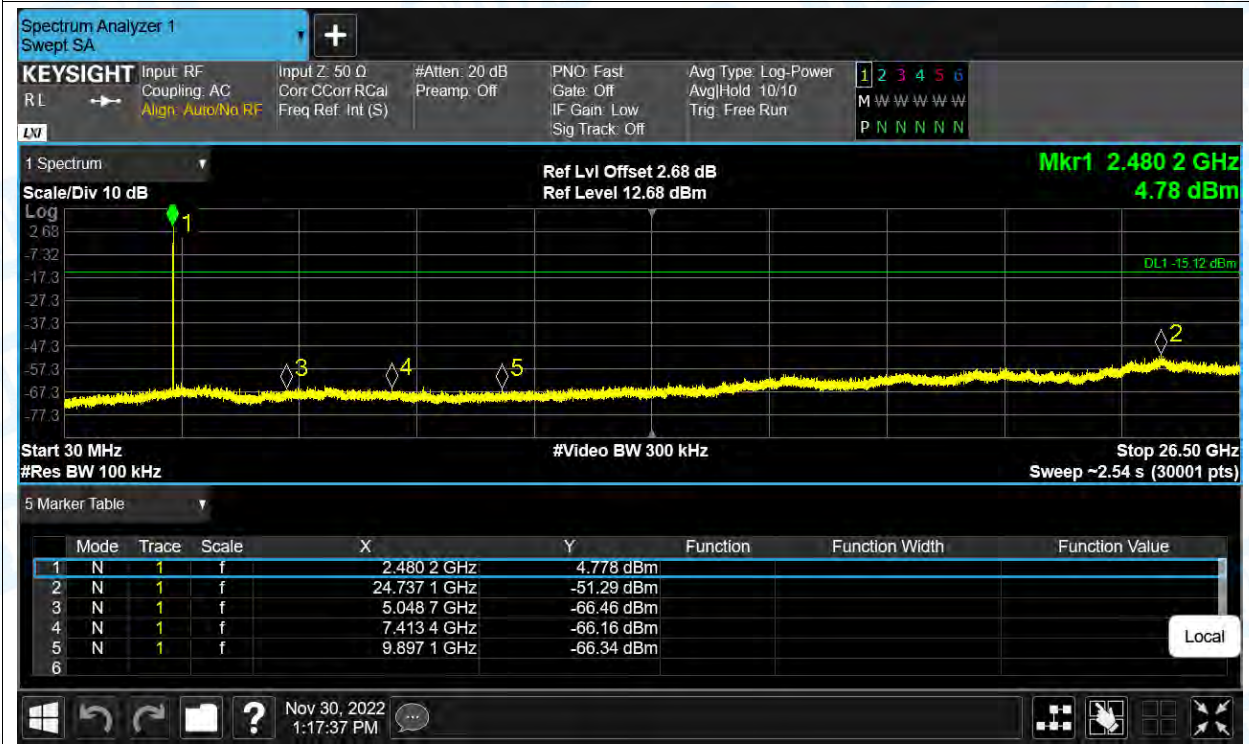
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



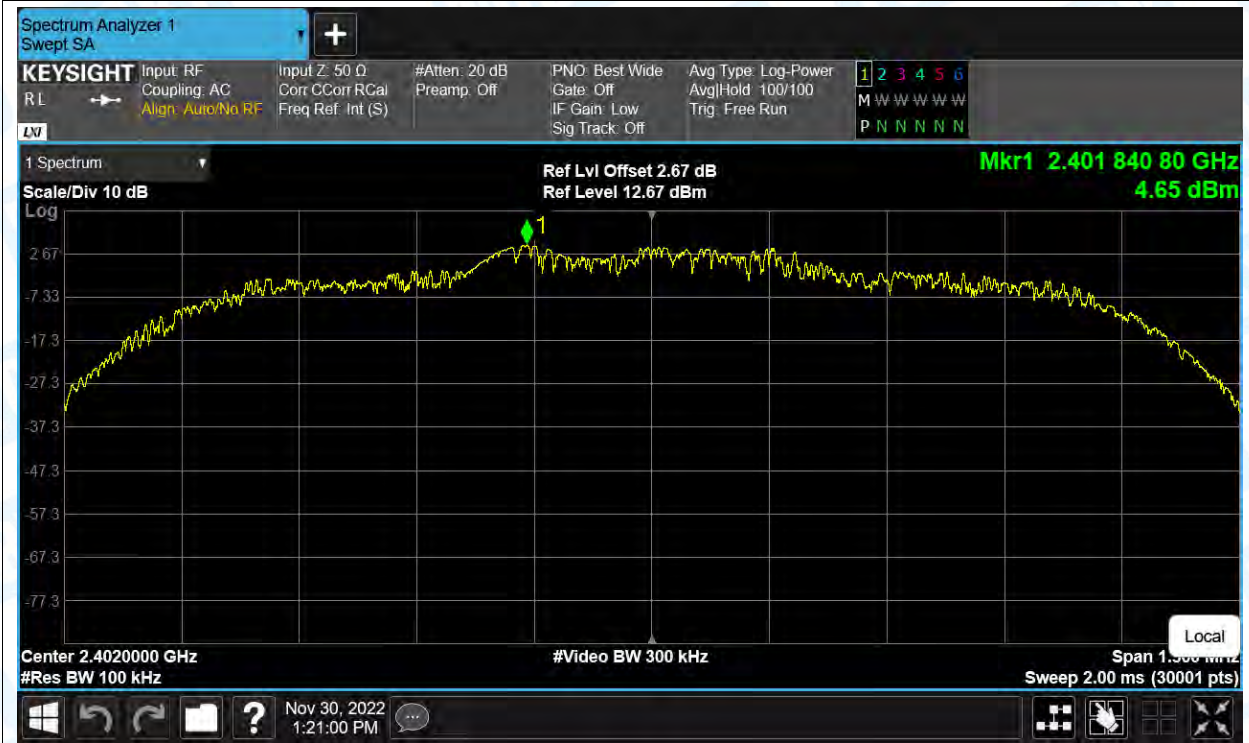
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



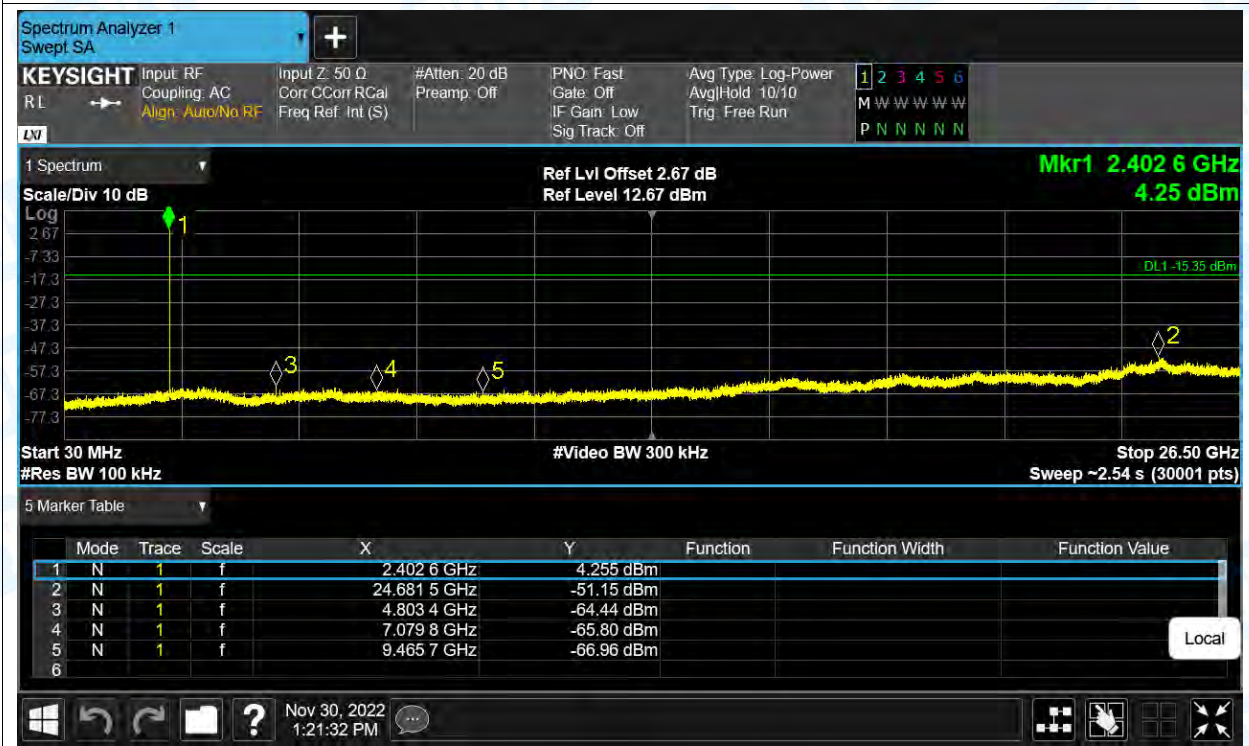
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



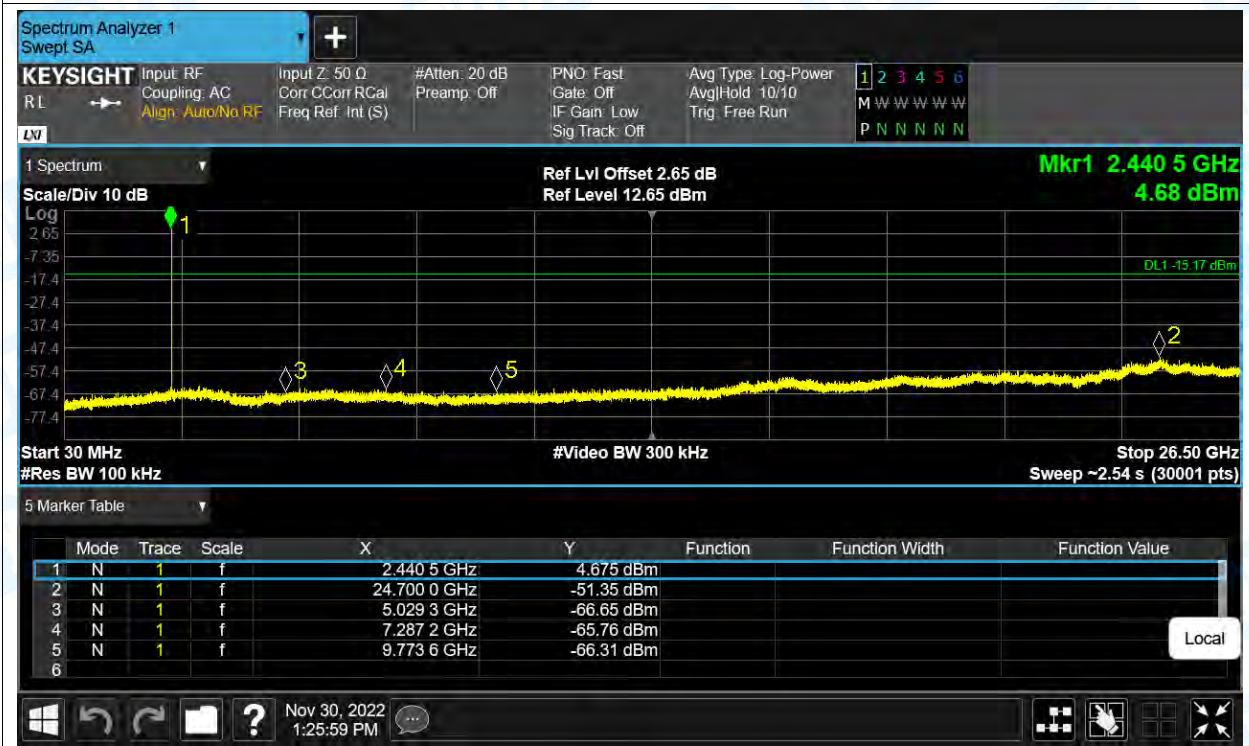
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



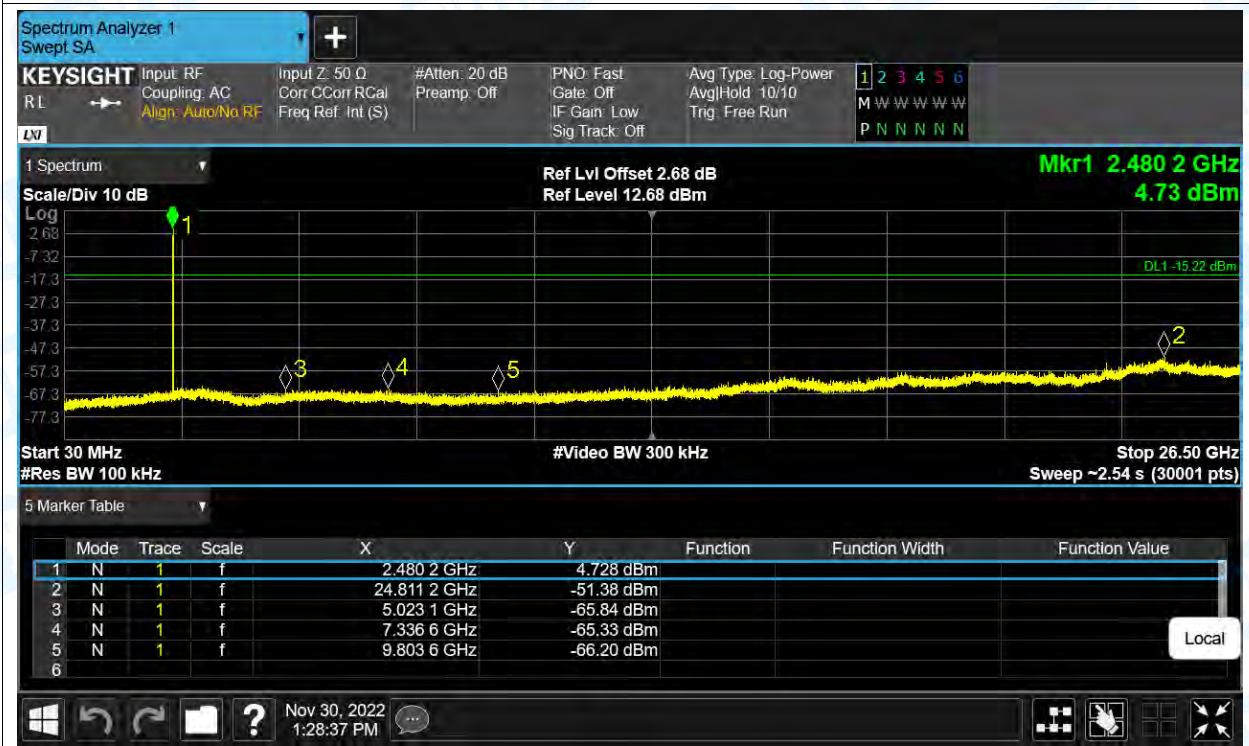
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

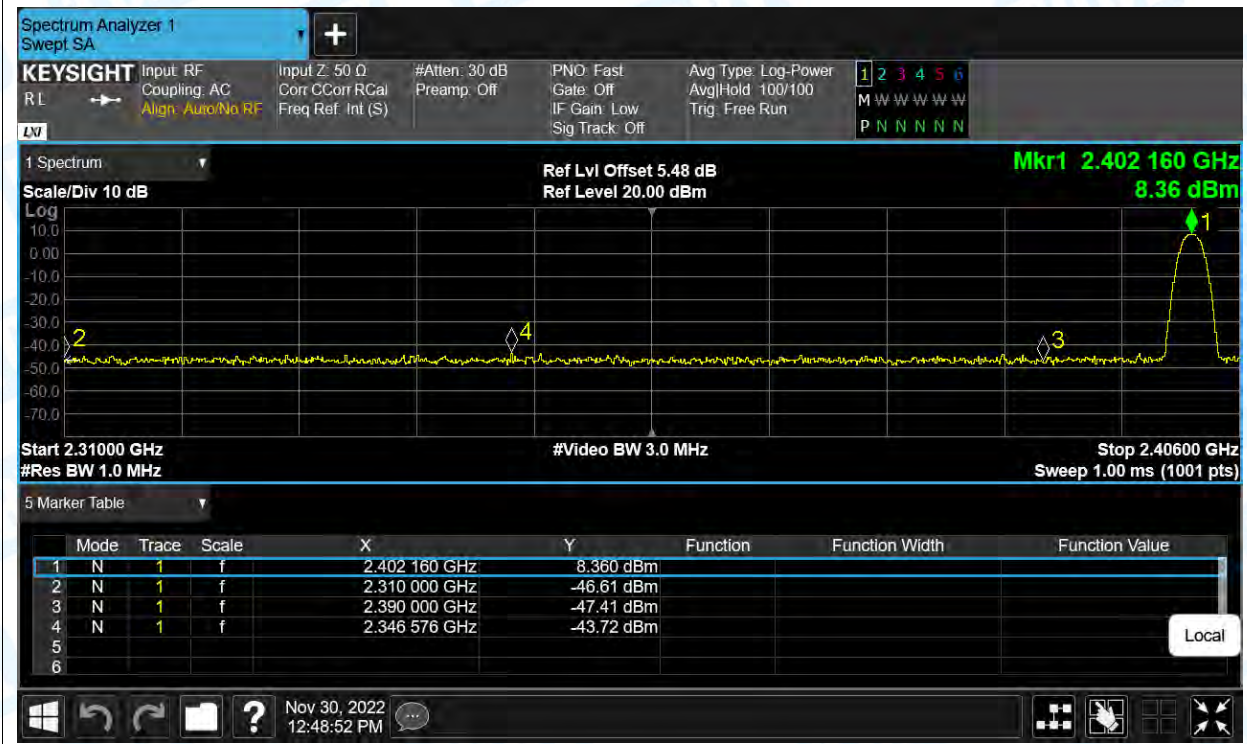


8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBUV/m)	Detector	Limit (dBUV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-46.61	2.0	51.46	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.73	2.0	42.34	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2346.576	-43.72	2.0	54.35	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2342.832	-54.94	2.0	43.13	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.62	2.0	50.45	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.47	2.0	42.6	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.75	2.0	51.32	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.81	2.0	43.26	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2499.232	-43.85	2.0	54.22	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2486.68	-54.66	2.0	43.41	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.39	2.0	49.68	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.57	2.0	42.5	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.54	2.0	51.53	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.62	2.0	42.45	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2344.848	-44.02	2.0	54.05	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2368.752	-55.19	2.0	42.88	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.26	2.0	50.81	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.58	2.0	42.49	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.33	2.0	50.74	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.83	2.0	43.24	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2490.16	-43.13	2.0	54.94	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.656	-54.56	2.0	43.51	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-45.59	2.0	52.48	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.4	2.0	42.67	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.29	2.0	50.78	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.87	2.0	42.2	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2365.968	-43.76	2.0	54.31	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2314.512	-54.94	2.0	43.13	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-45.49	2.0	52.58	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.67	2.0	42.4	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-45.61	2.0	52.46	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.09	2.0	42.98	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2497	-42.23	2.0	55.84	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.584	-54.87	2.0	43.2	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.23	2.0	51.84	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.39	2.0	42.68	Average	54	Pass

Test Graphs

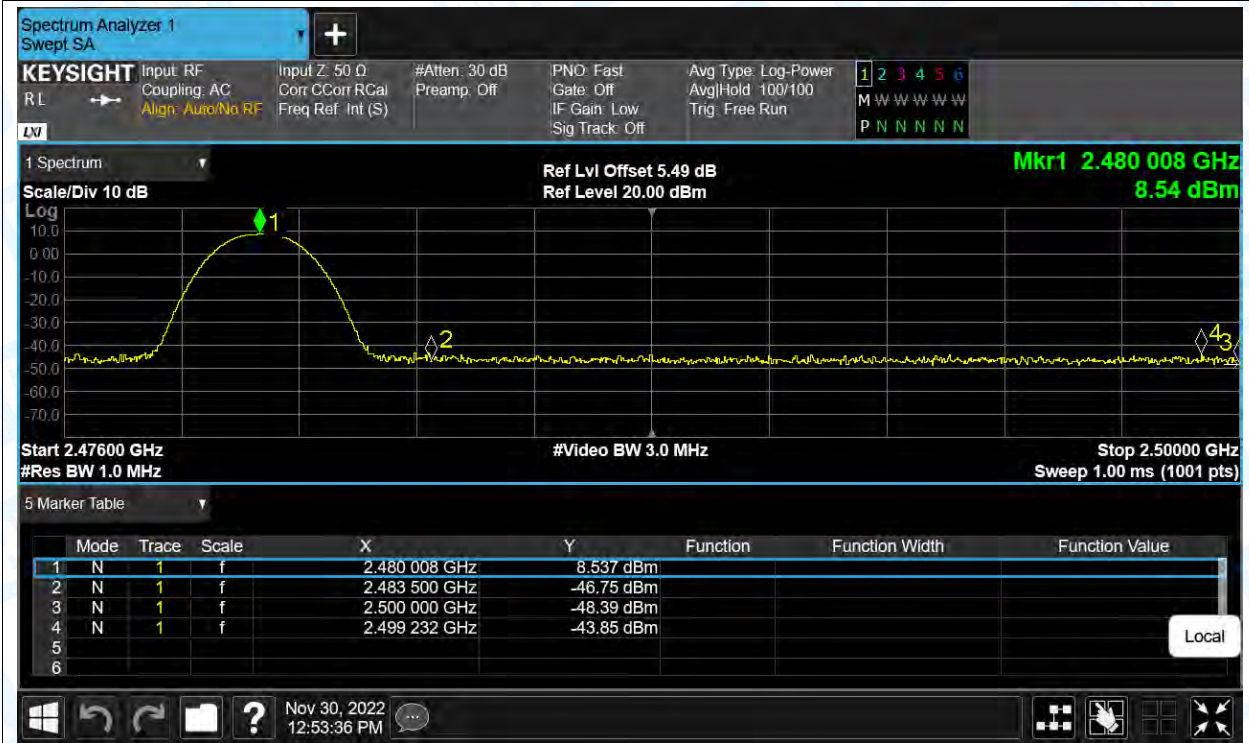
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



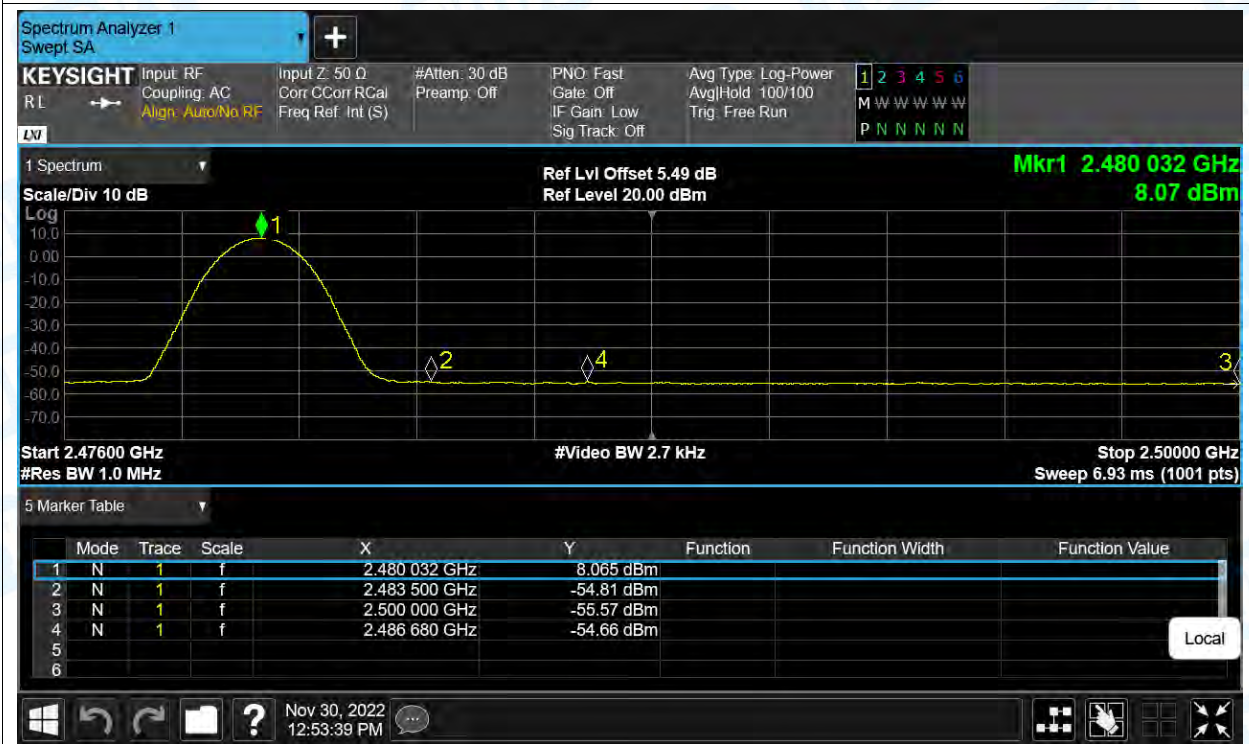
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



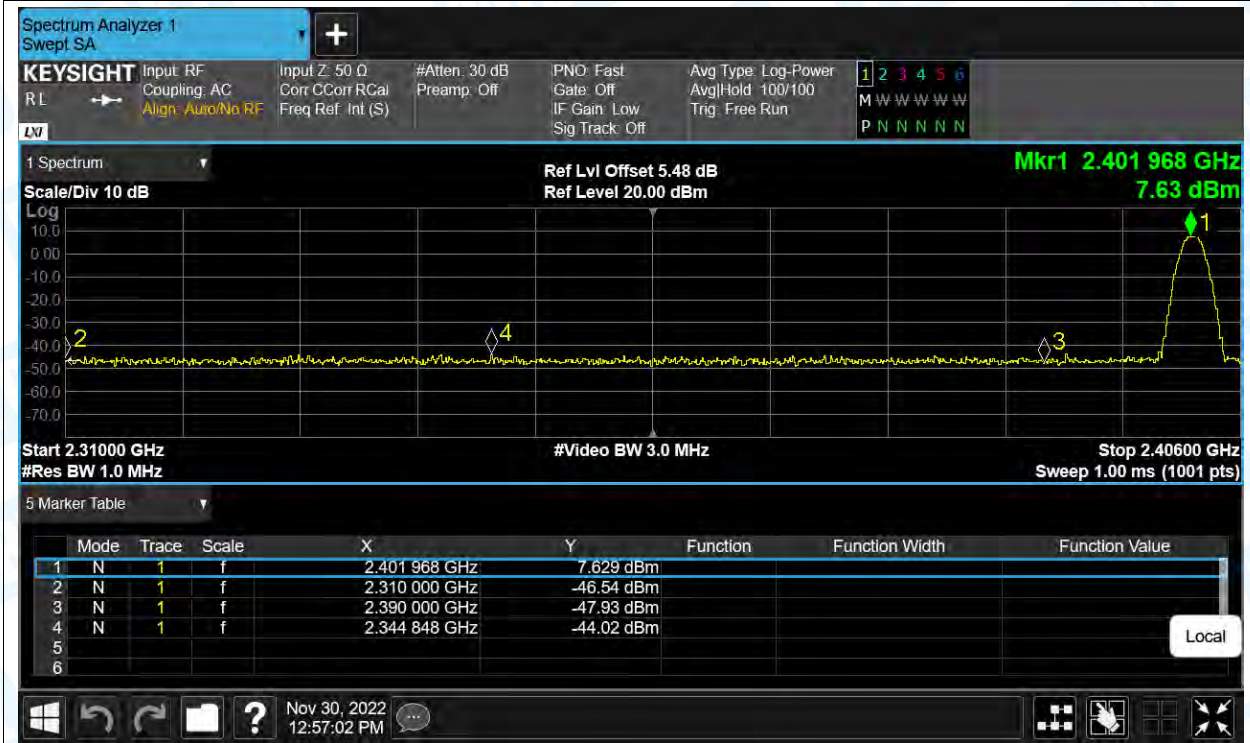
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



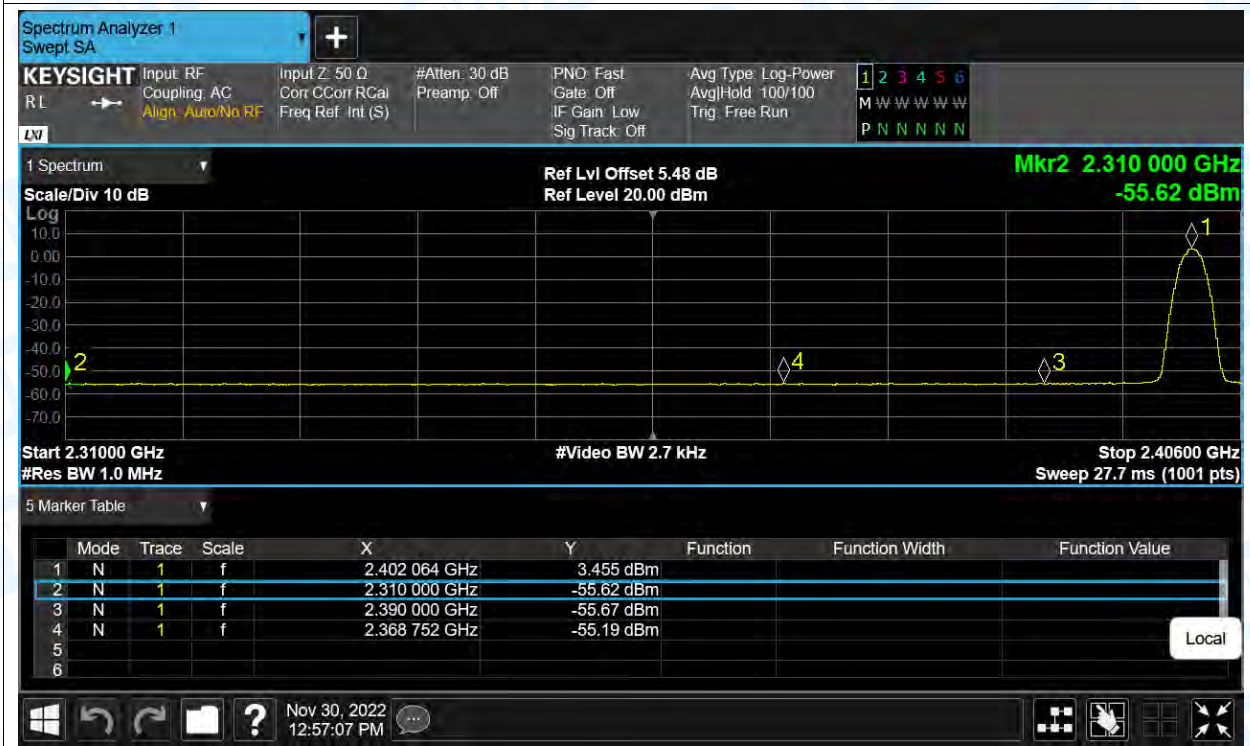
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



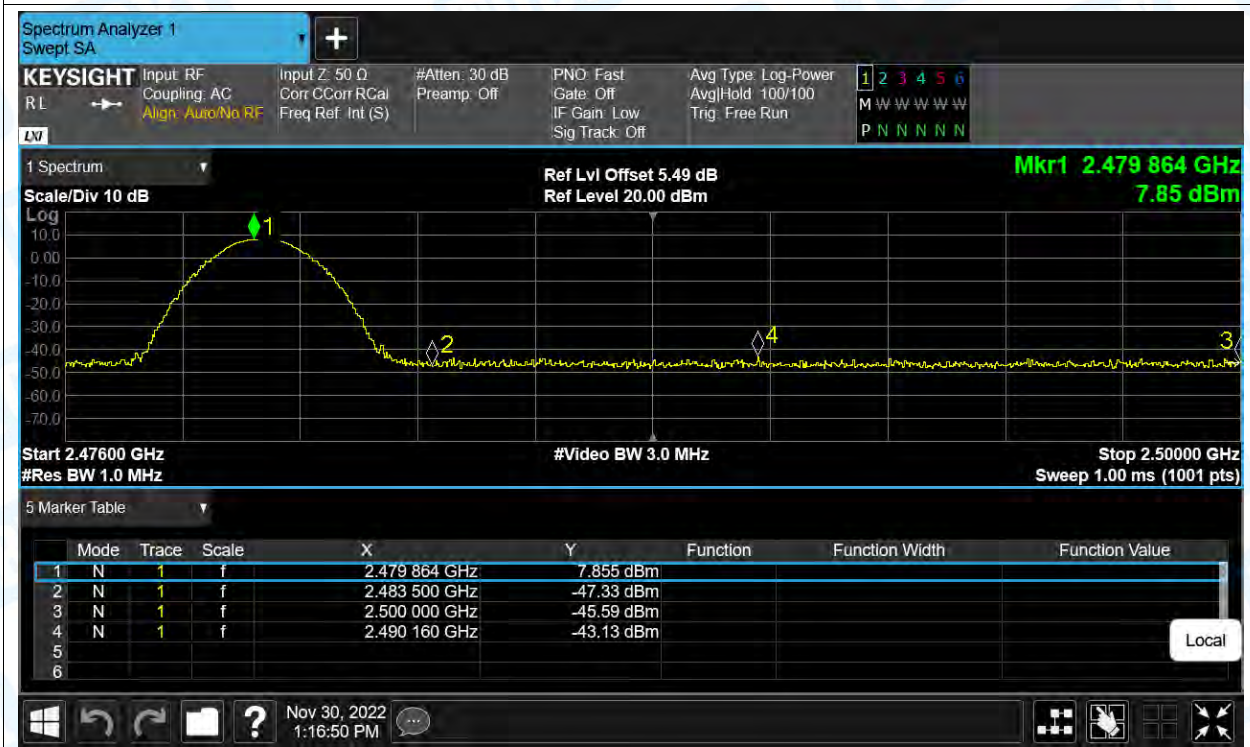
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



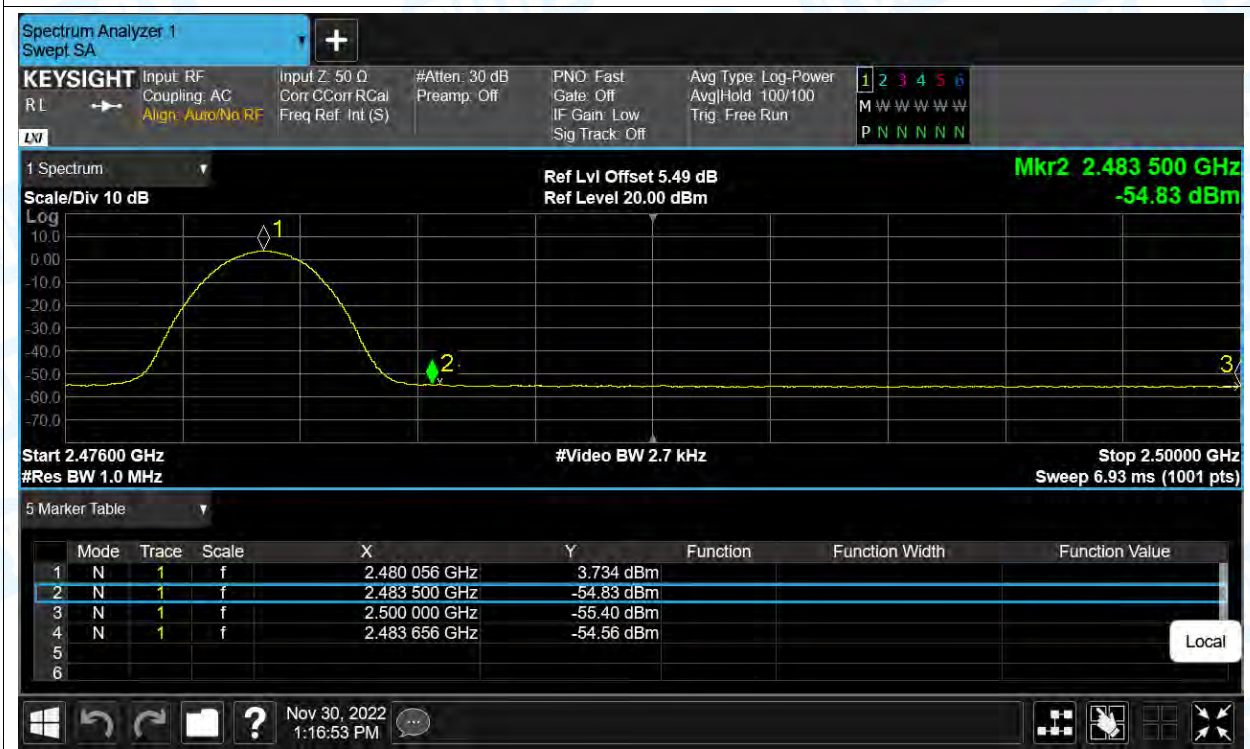
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



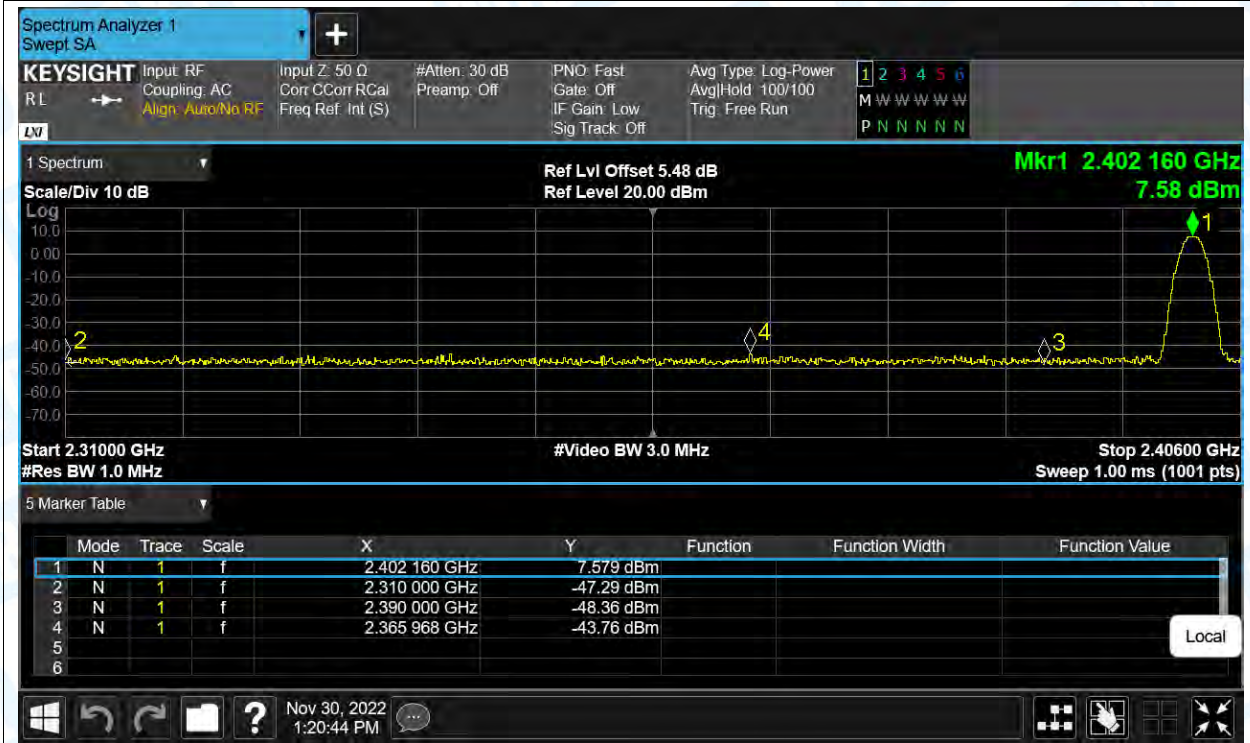
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



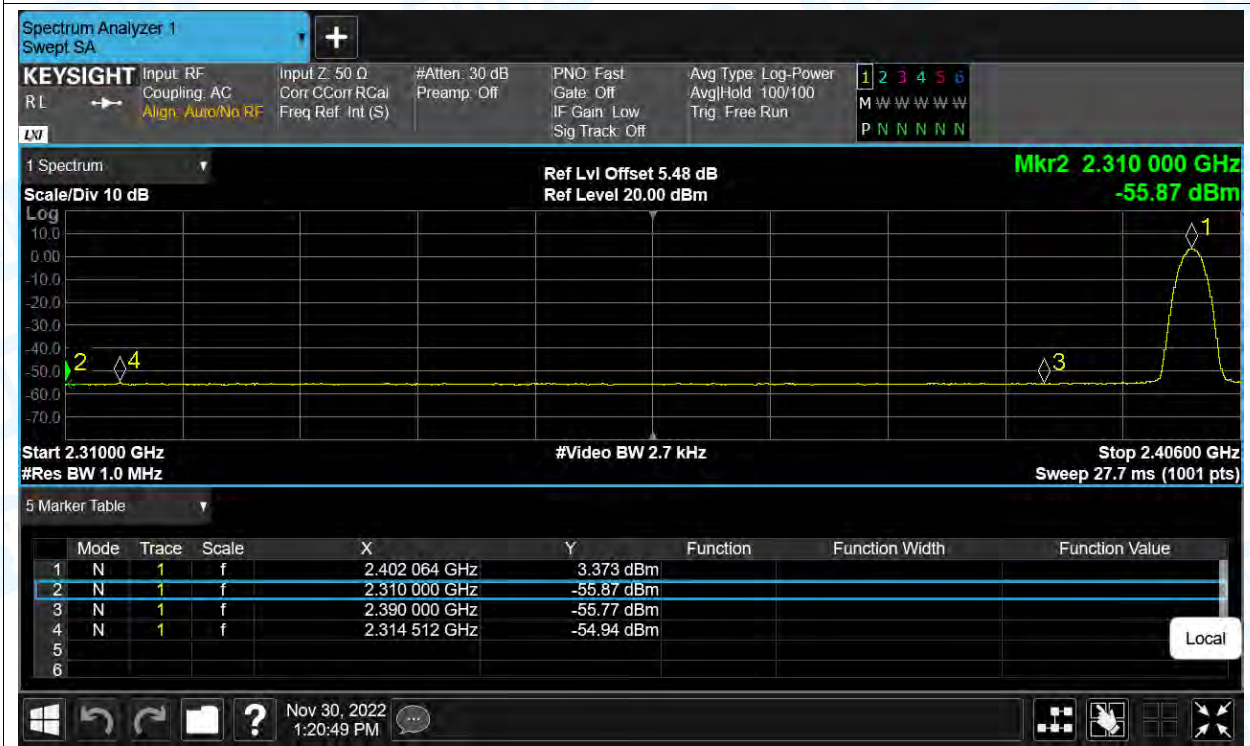
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



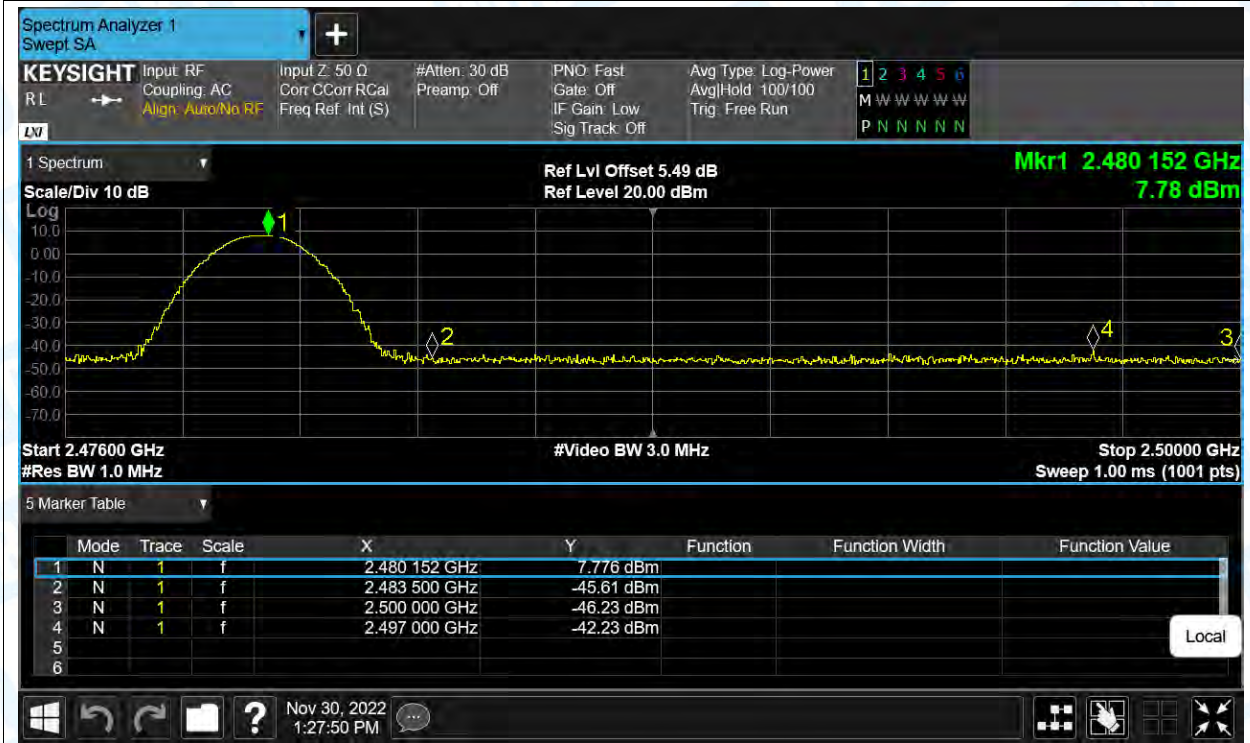
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



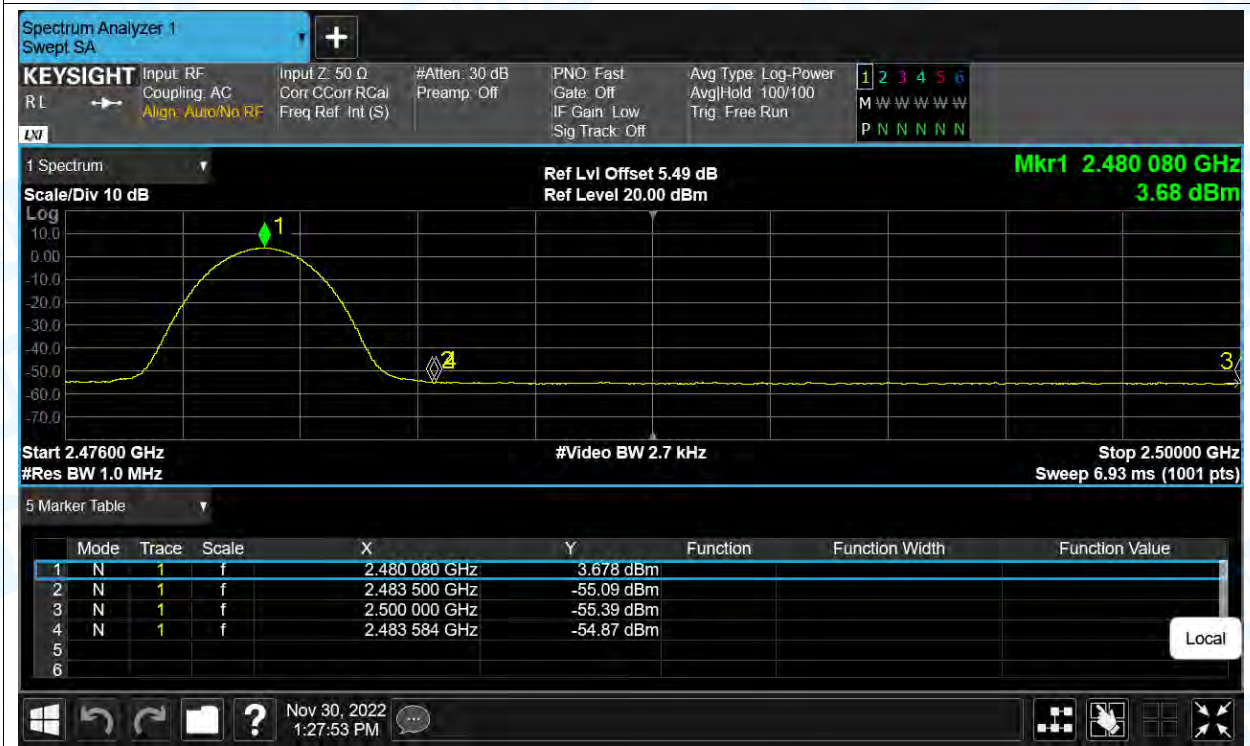
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average

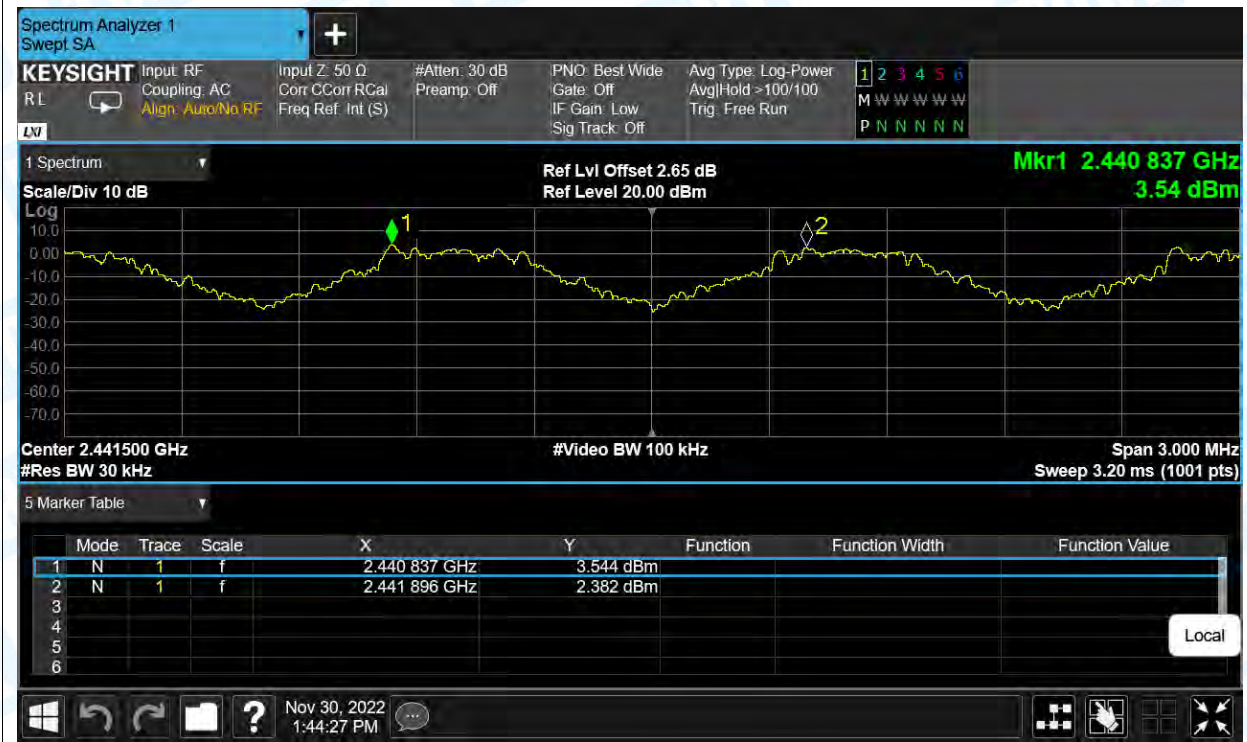


9. Carrier Frequencies Separation

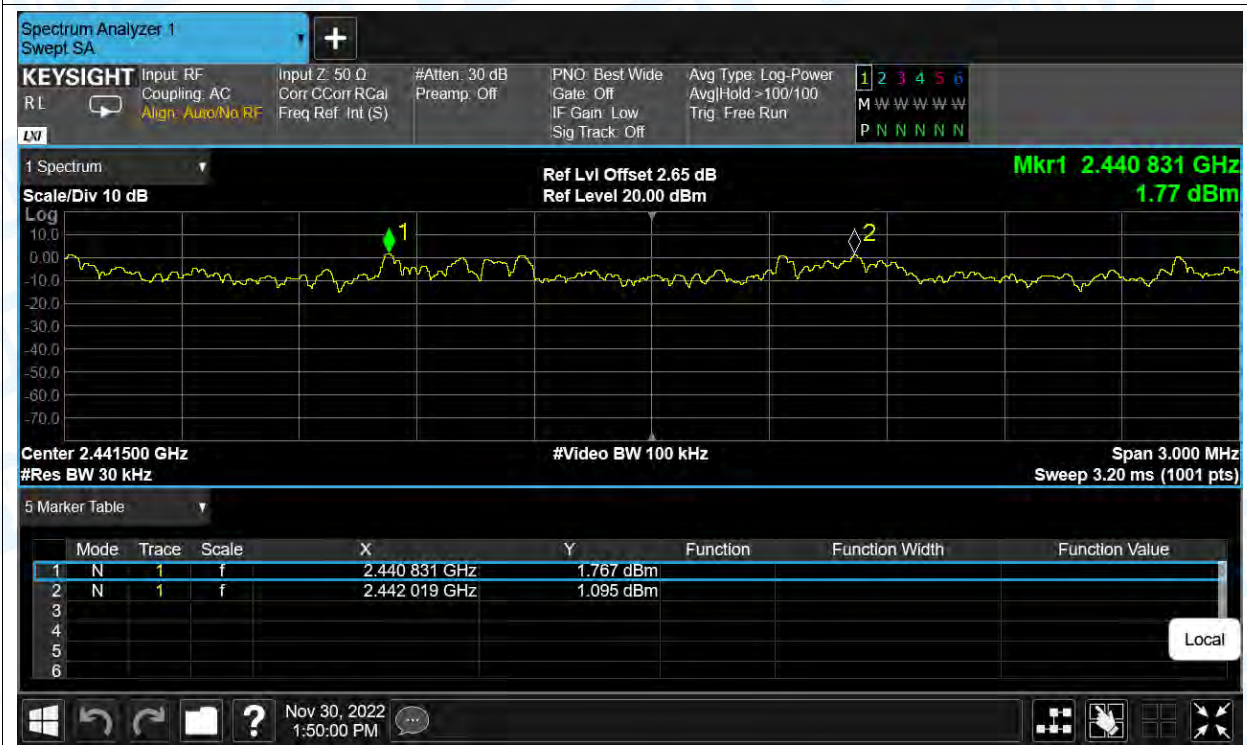
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.837	2441.896	1.059	0.553	Pass
NVNT	2-DH1	Ant1	2440.831	2442.019	1.188	0.827	Pass
NVNT	3-DH1	Ant1	2440.825	2442.028	1.203	0.813	Pass

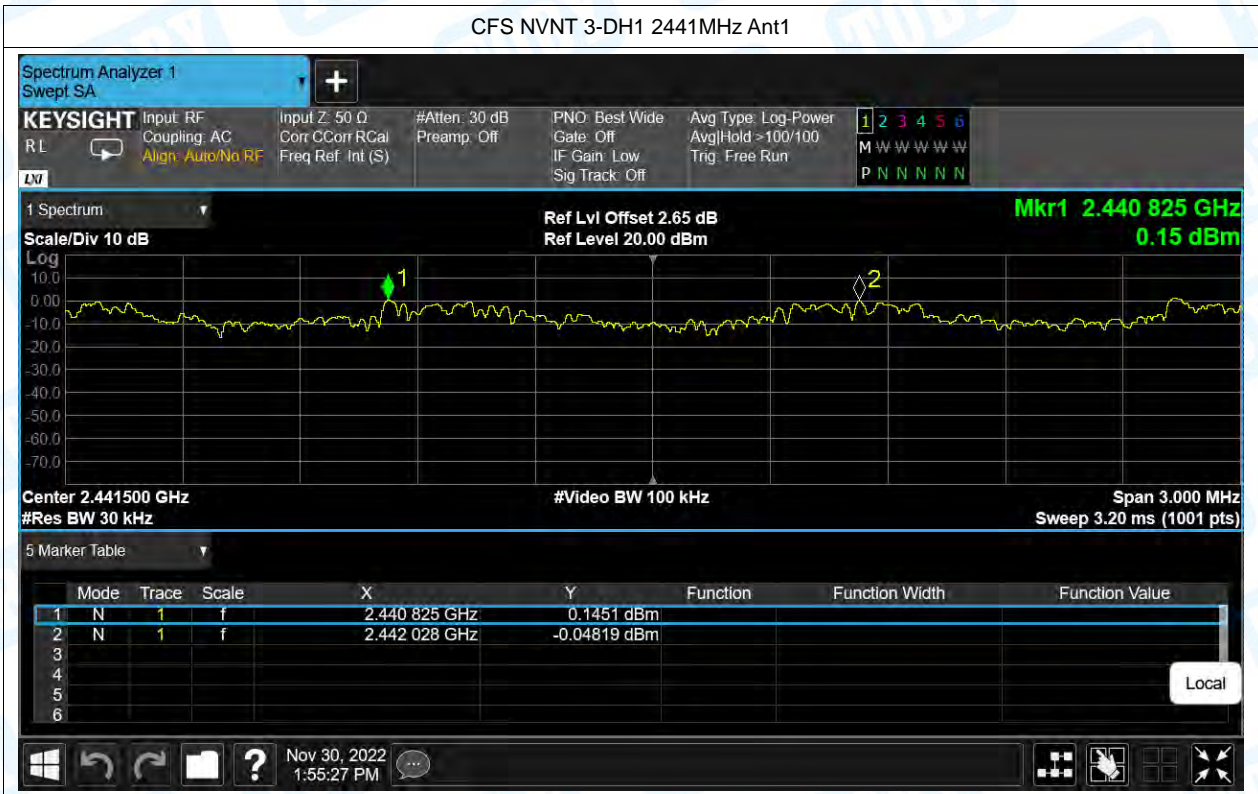
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



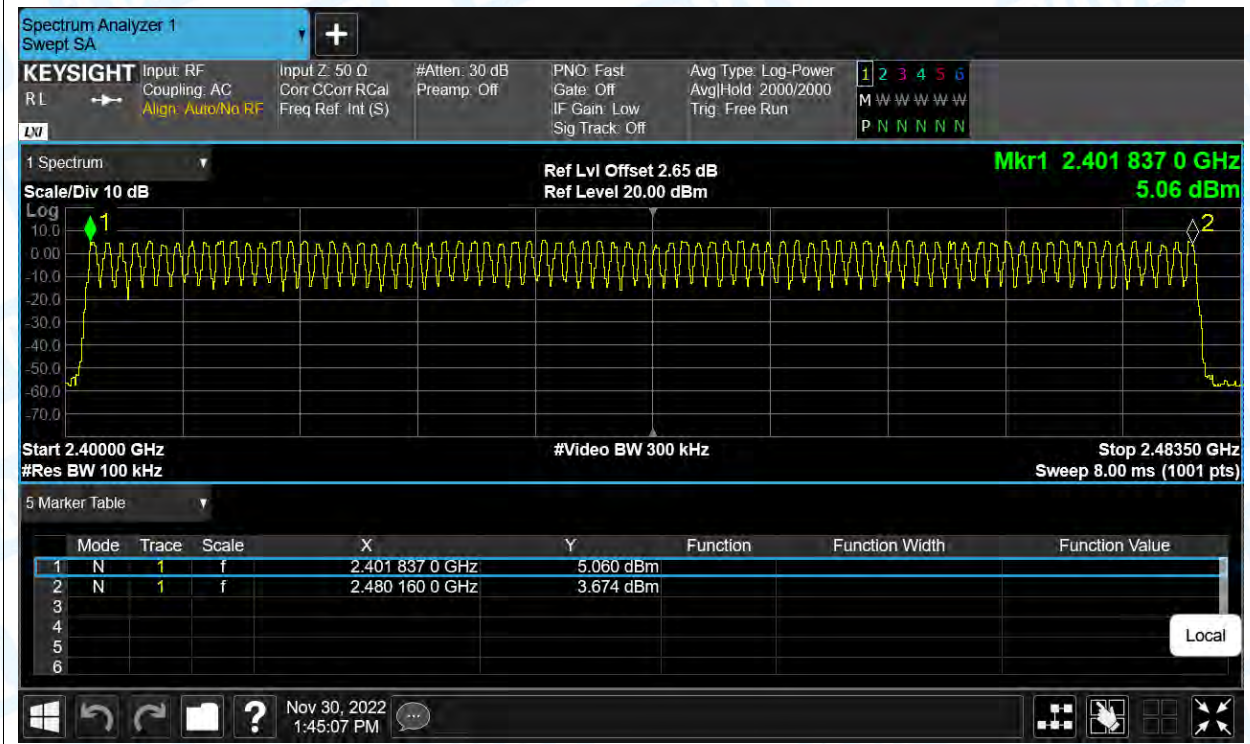


10. Number of Hopping Channel

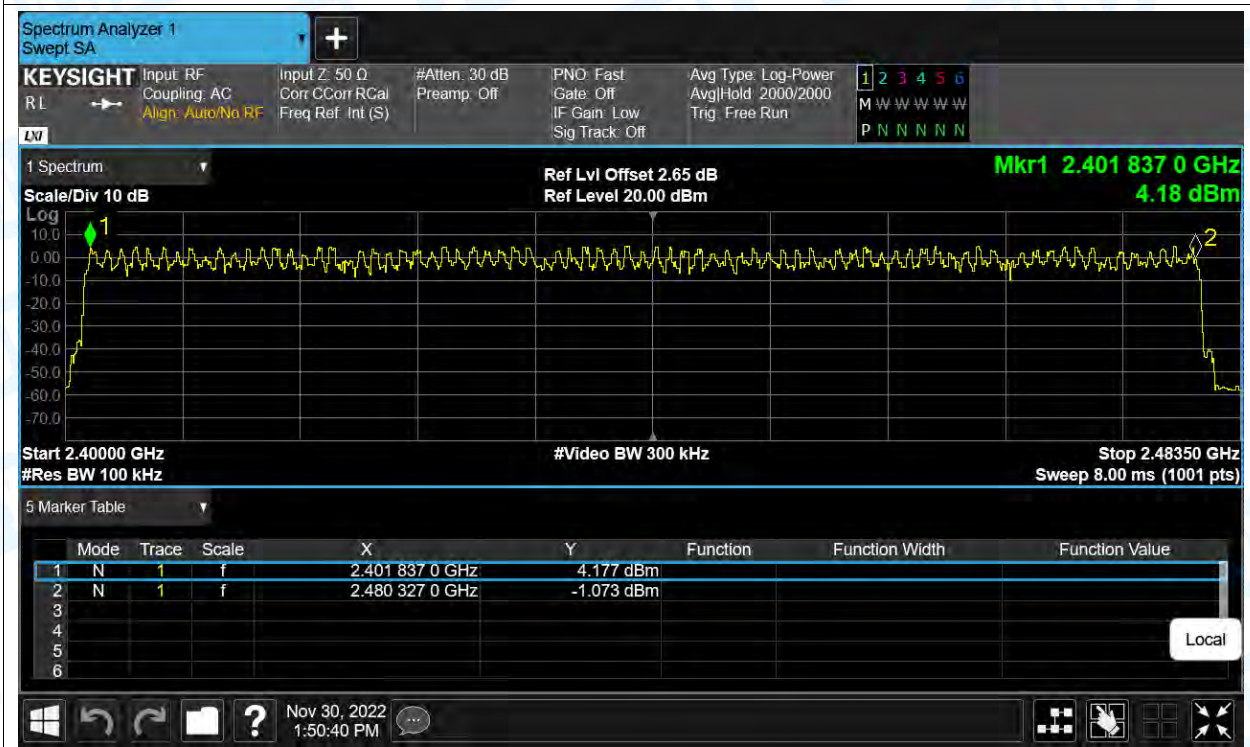
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

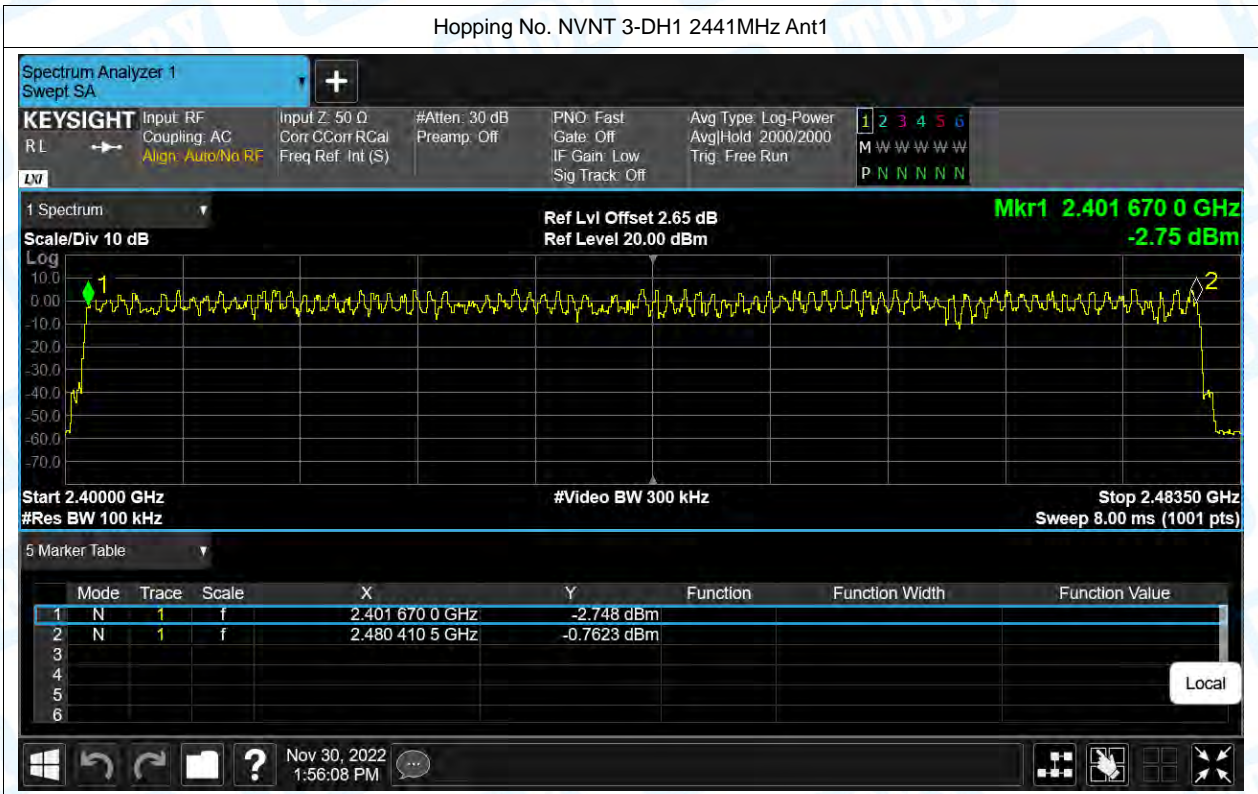
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



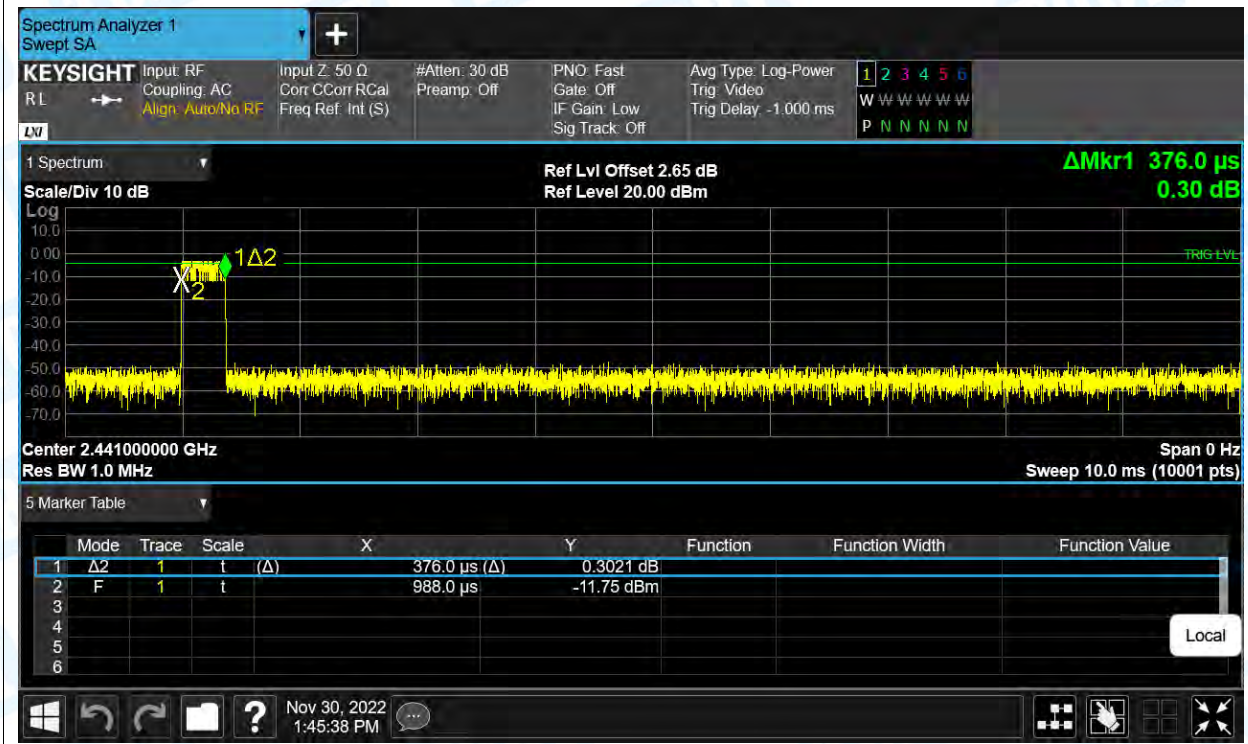


11. Dwell Time

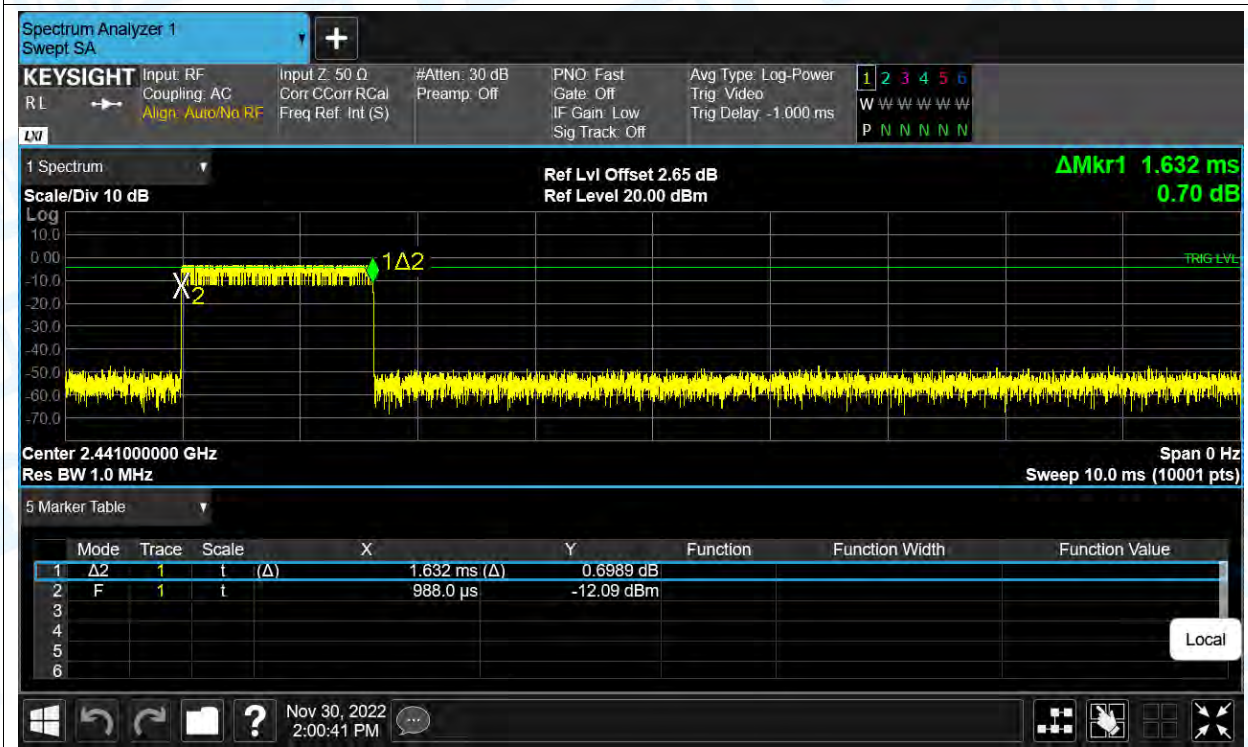
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.376	120.32	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	307.413	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	307.733	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	307.947	31600	400	Pass

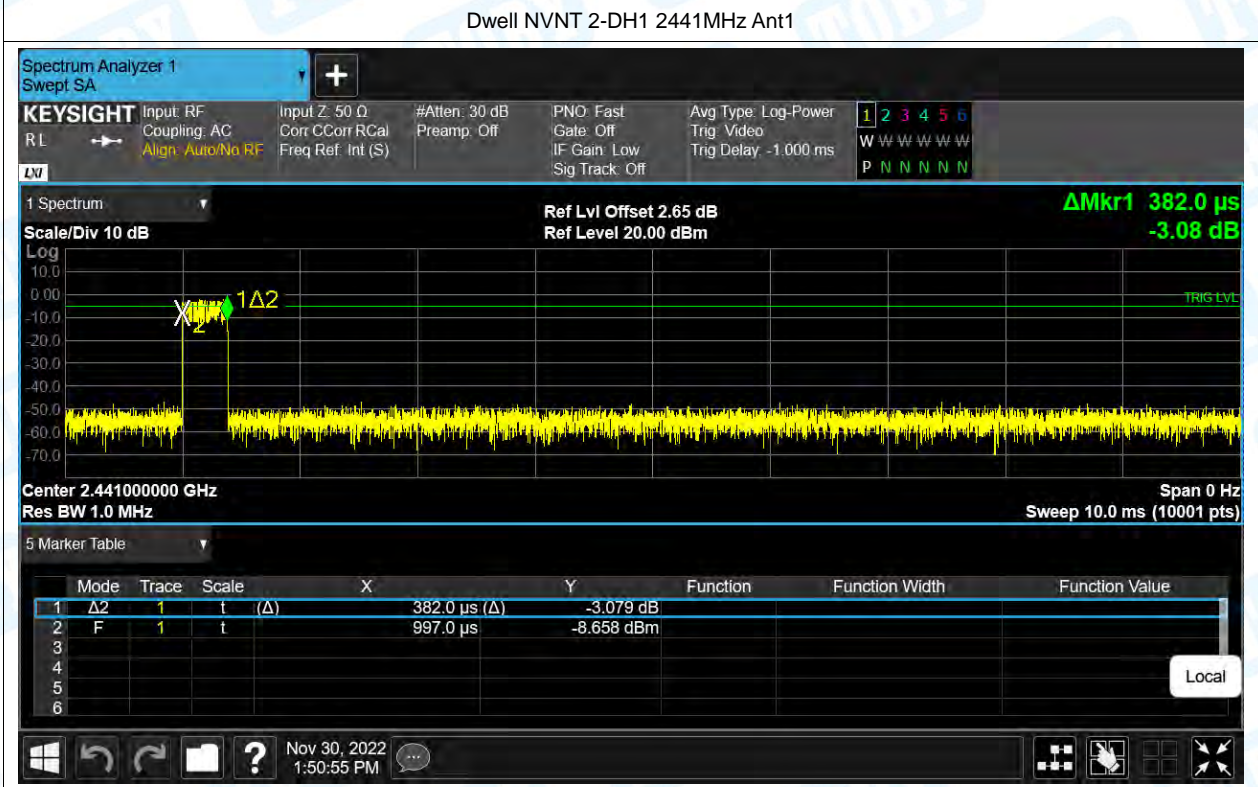
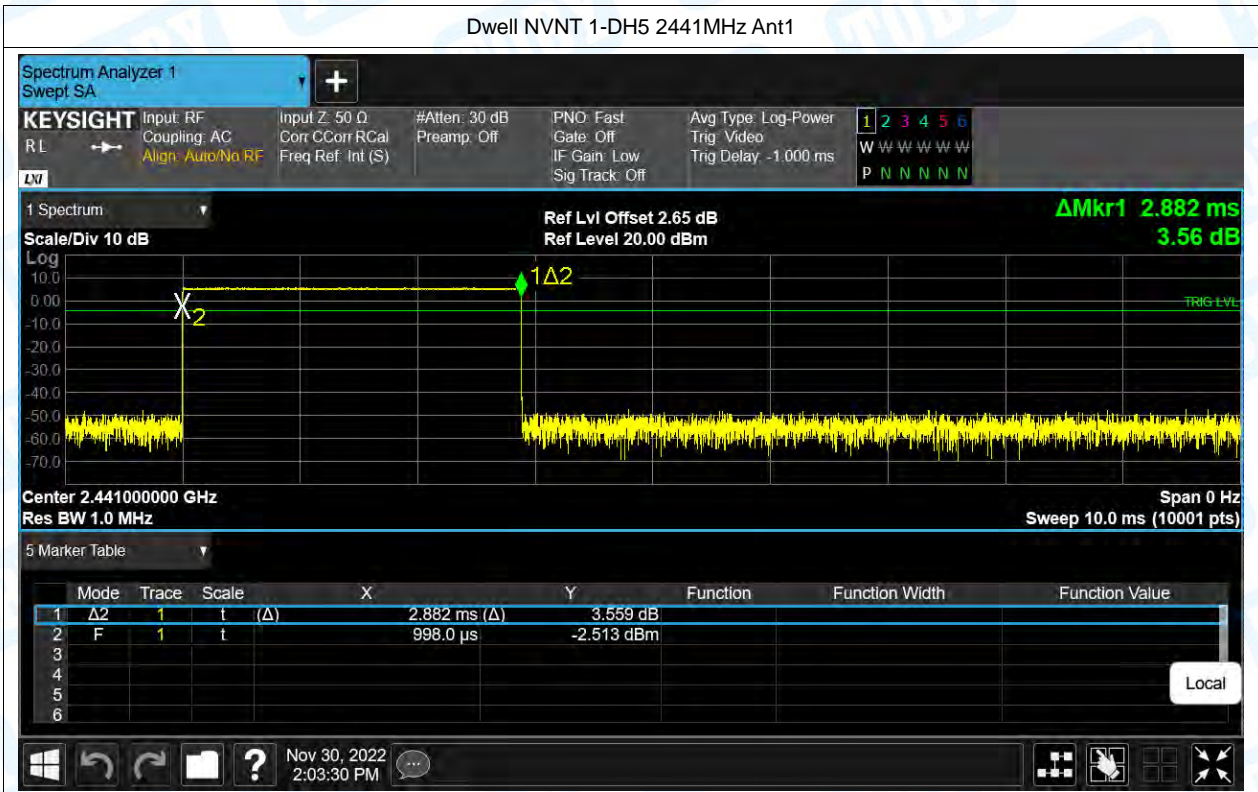
Test Graphs

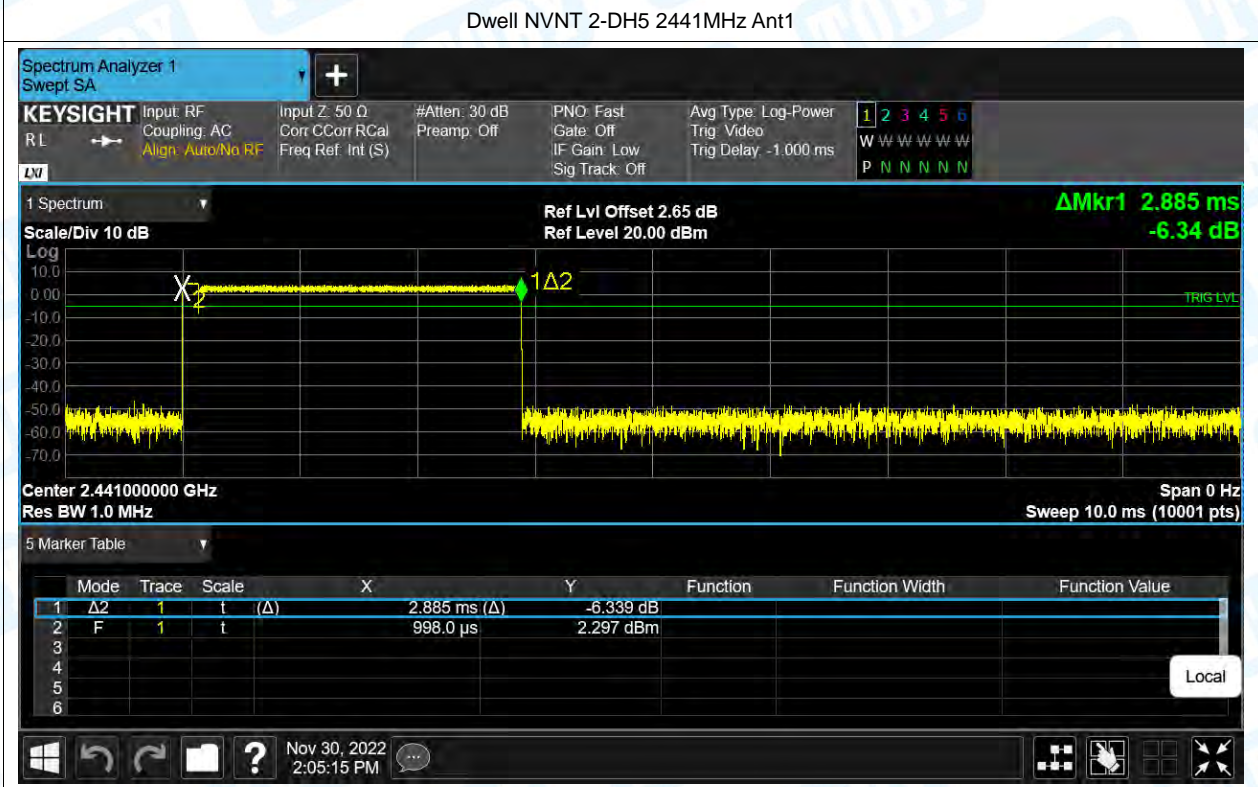
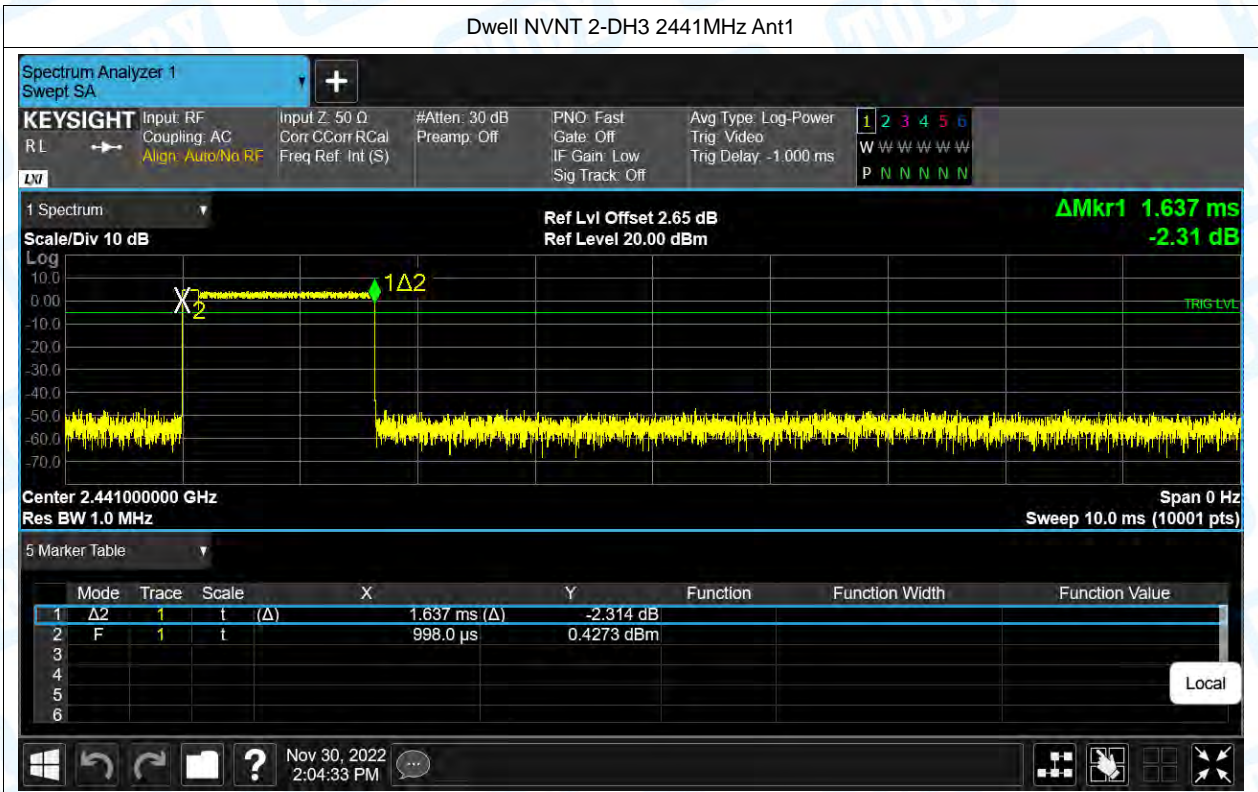
Dwell NVNT 1-DH1 2441MHz Ant1

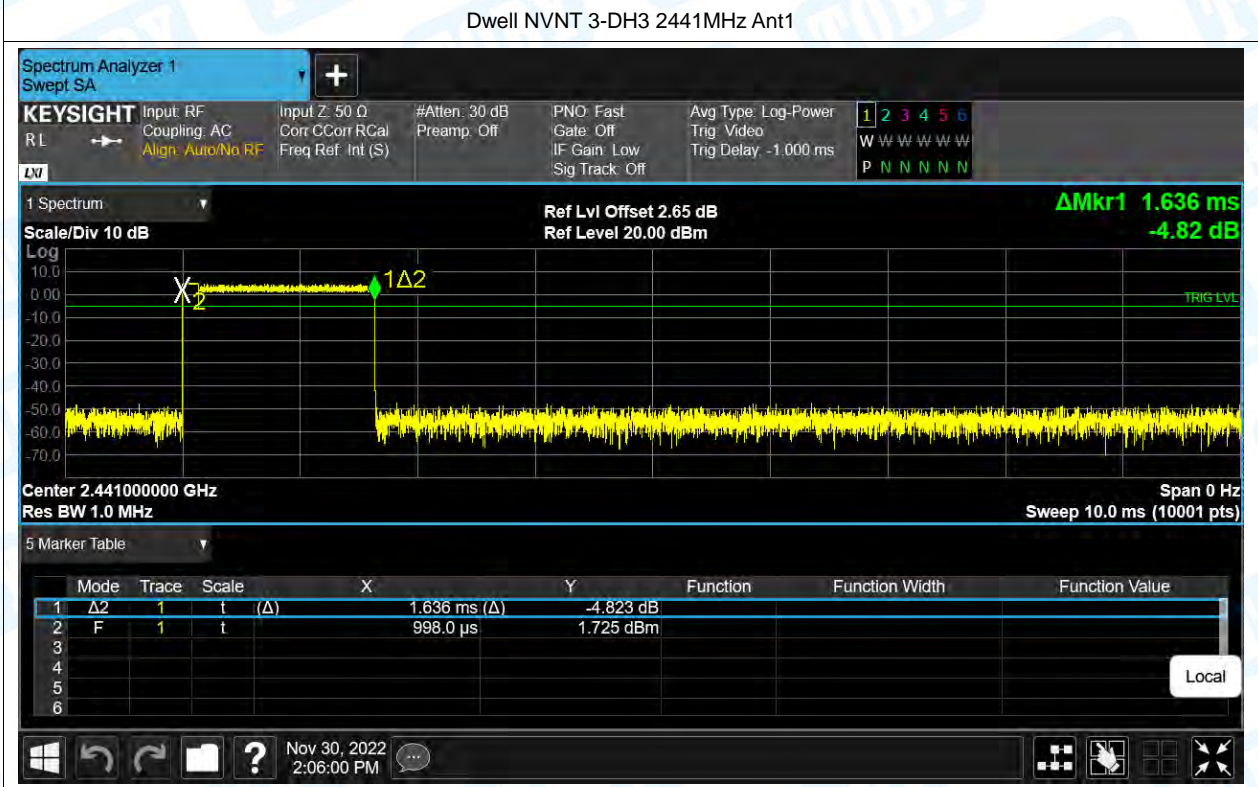
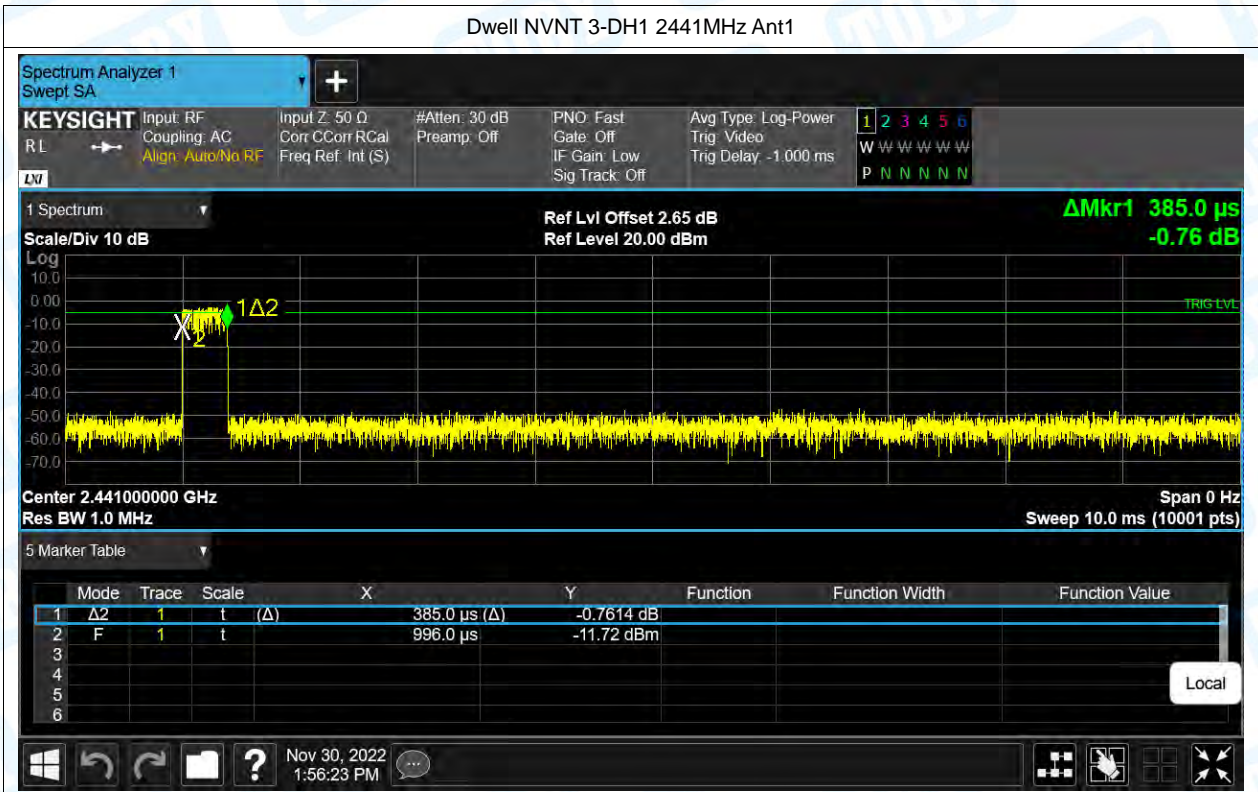


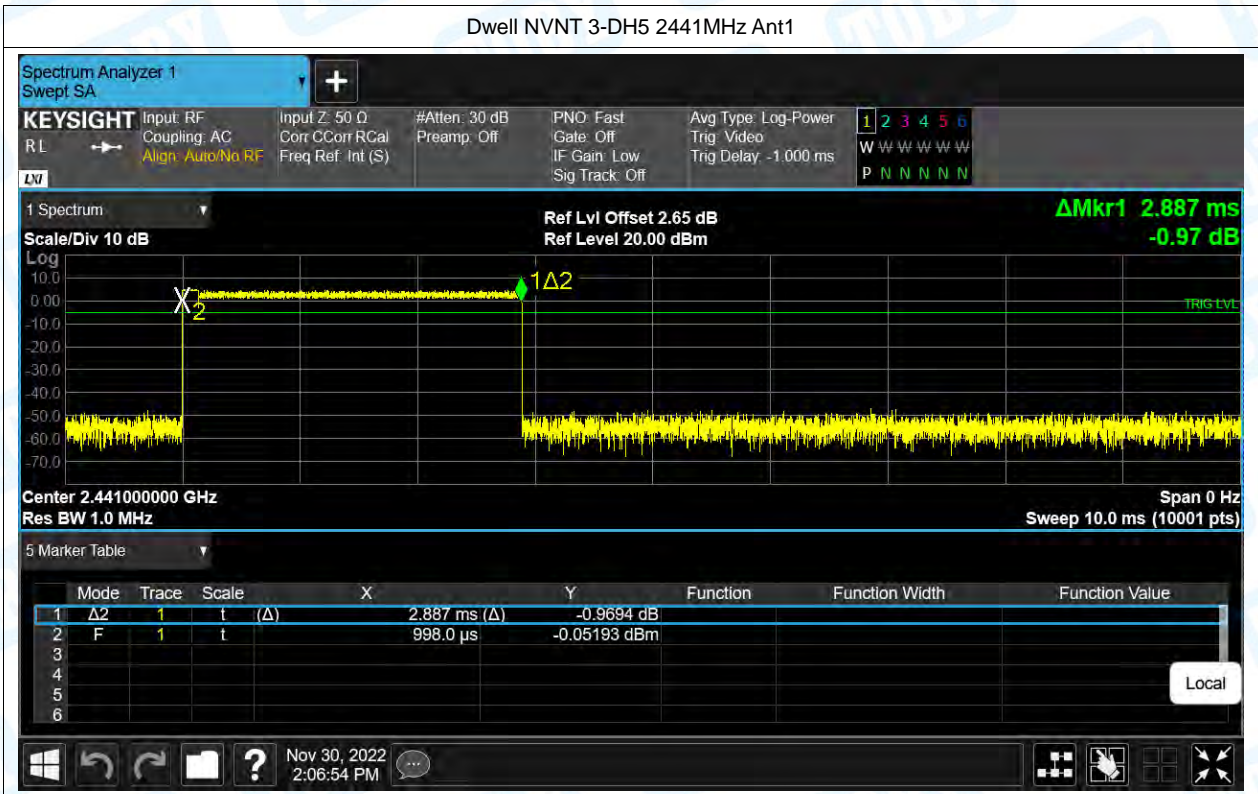
Dwell NVNT 1-DH3 2441MHz Ant1











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