

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

General Description of EUT	
Product Name:	music power station
Test Model:	SKA700T
Sample ID:	202306-0024-3-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 16V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202306-0024-9 The report only show the worst case data.	

Contents

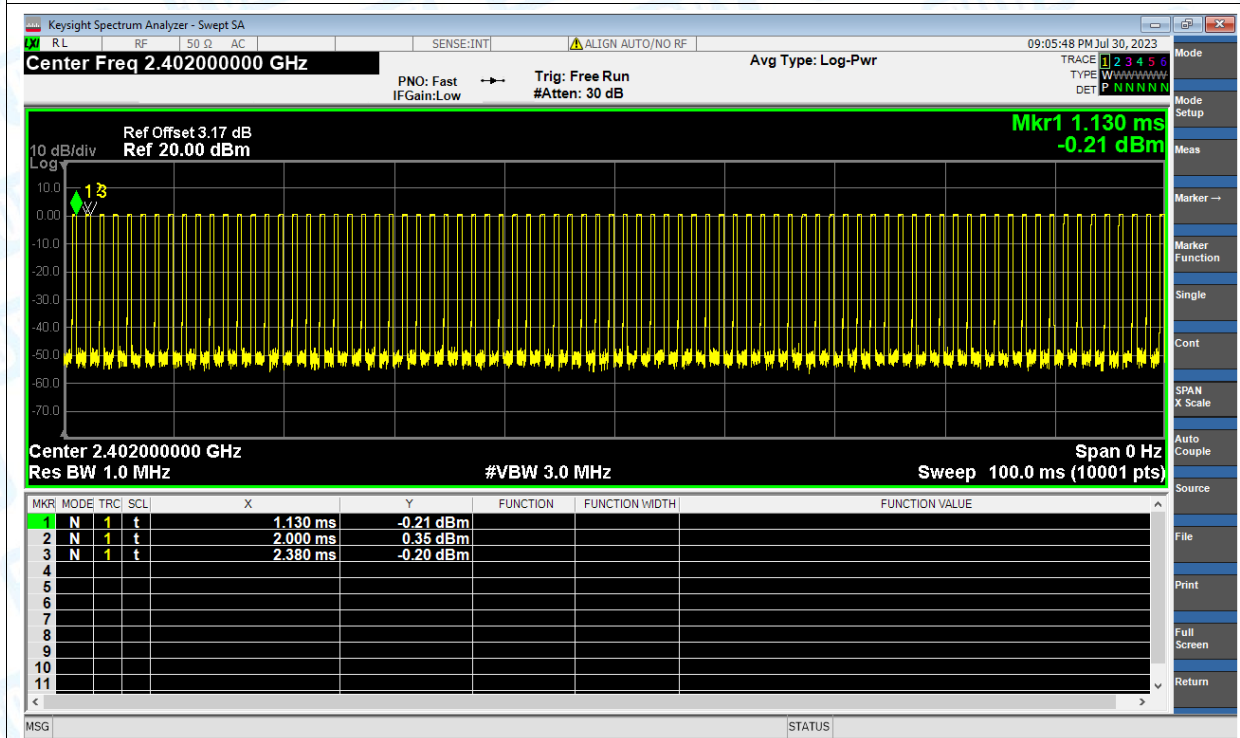
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1. Duty Cycle

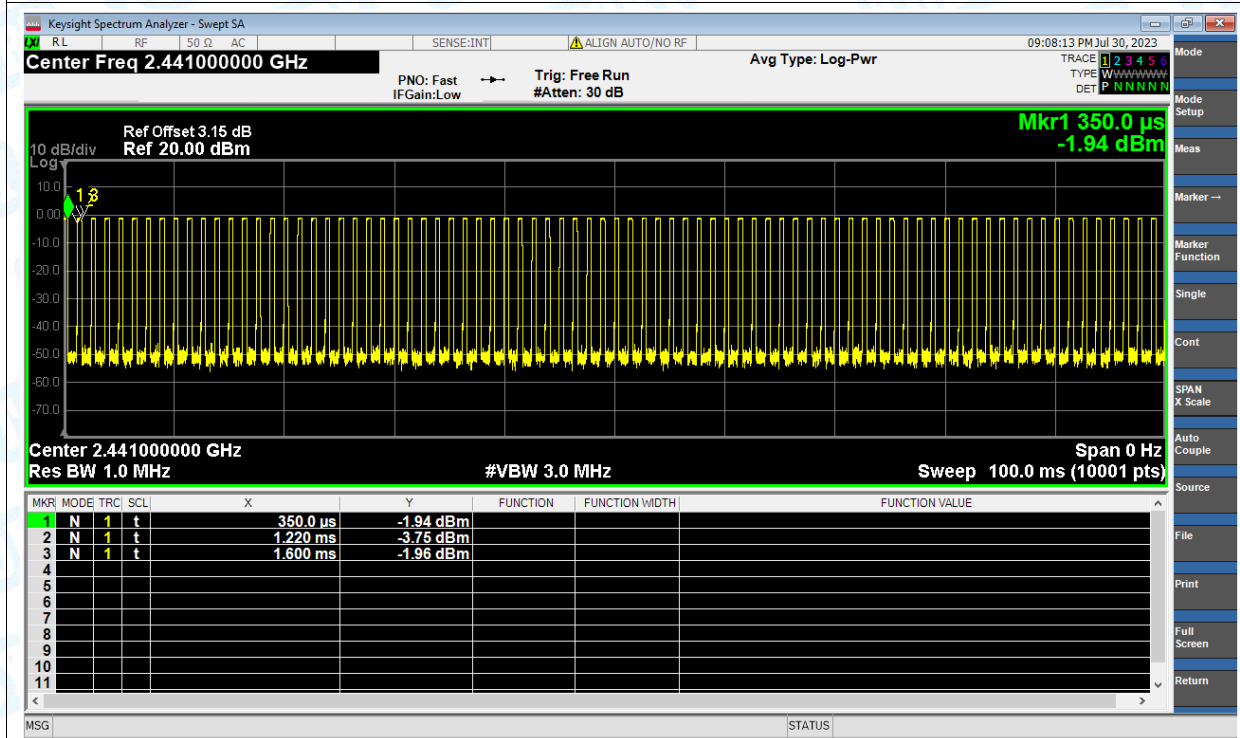
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56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

Test Graphs

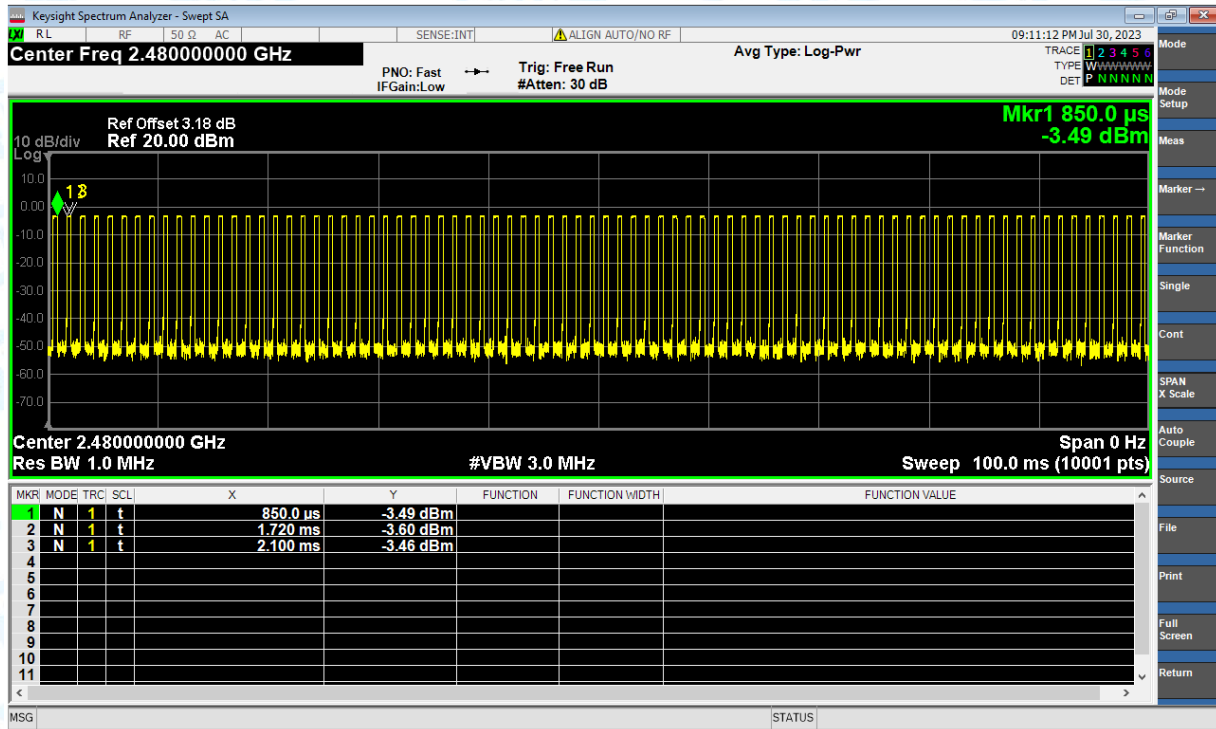
Duty Cycle NVNT 1-DH1 2402MHz Ant1



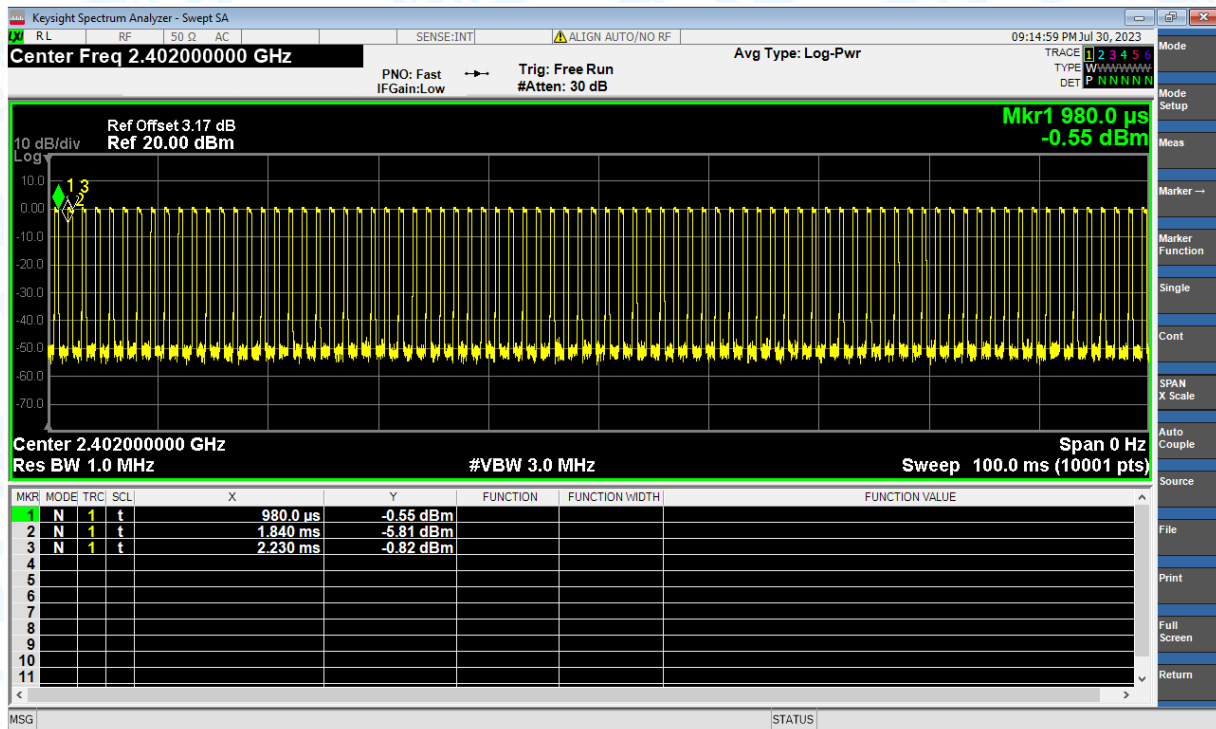
Duty Cycle NVNT 1-DH1 2441MHz Ant1



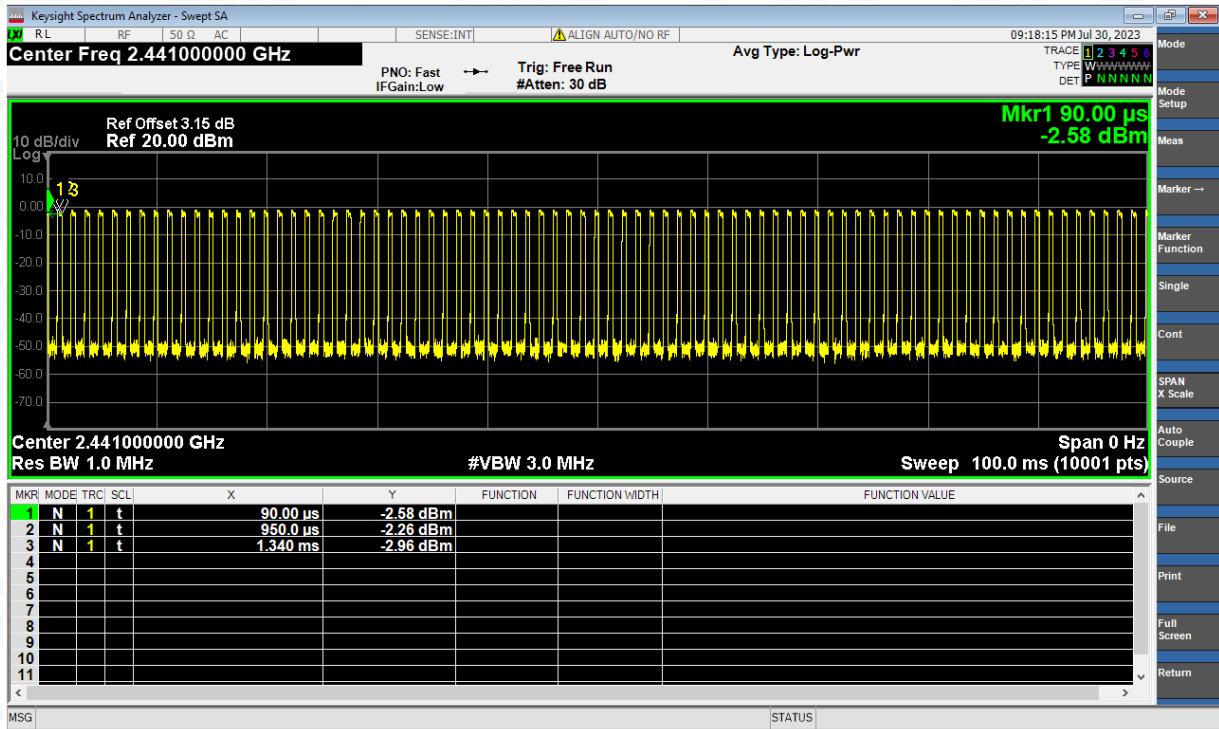
Duty Cycle NVNT 1-DH1 2480MHz Ant1



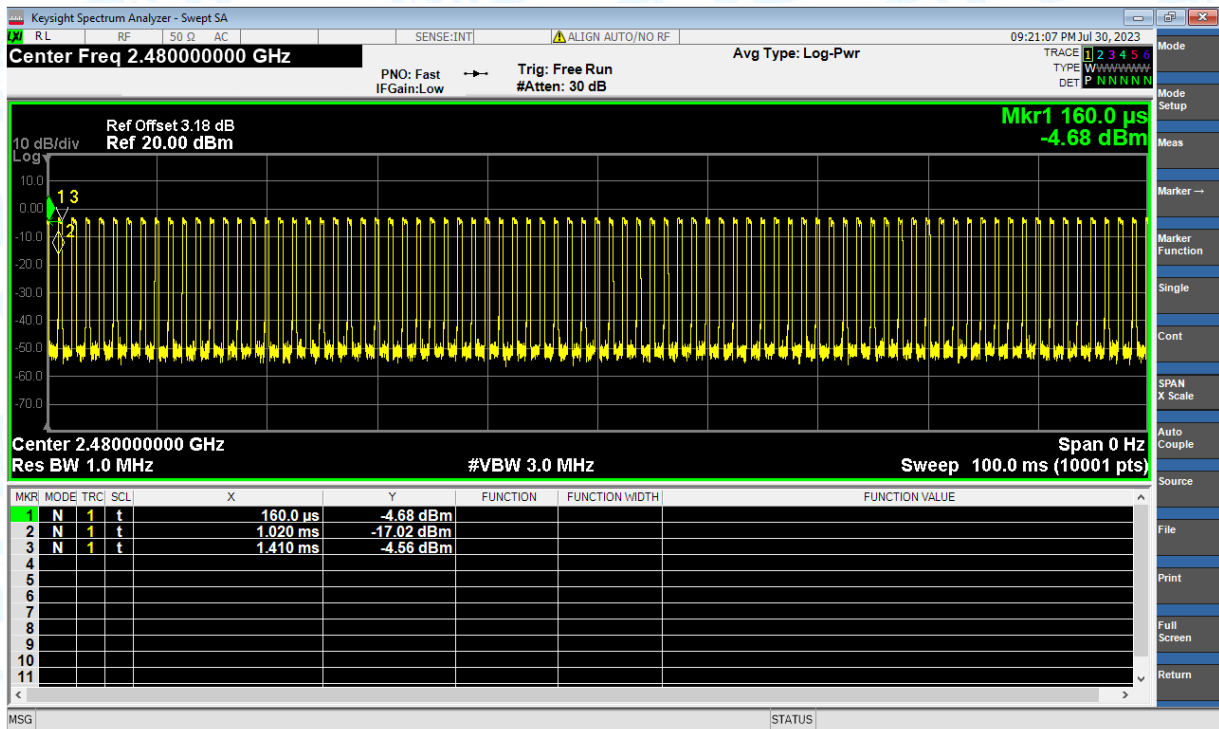
Duty Cycle NVNT 2-DH1 2402MHz Ant1



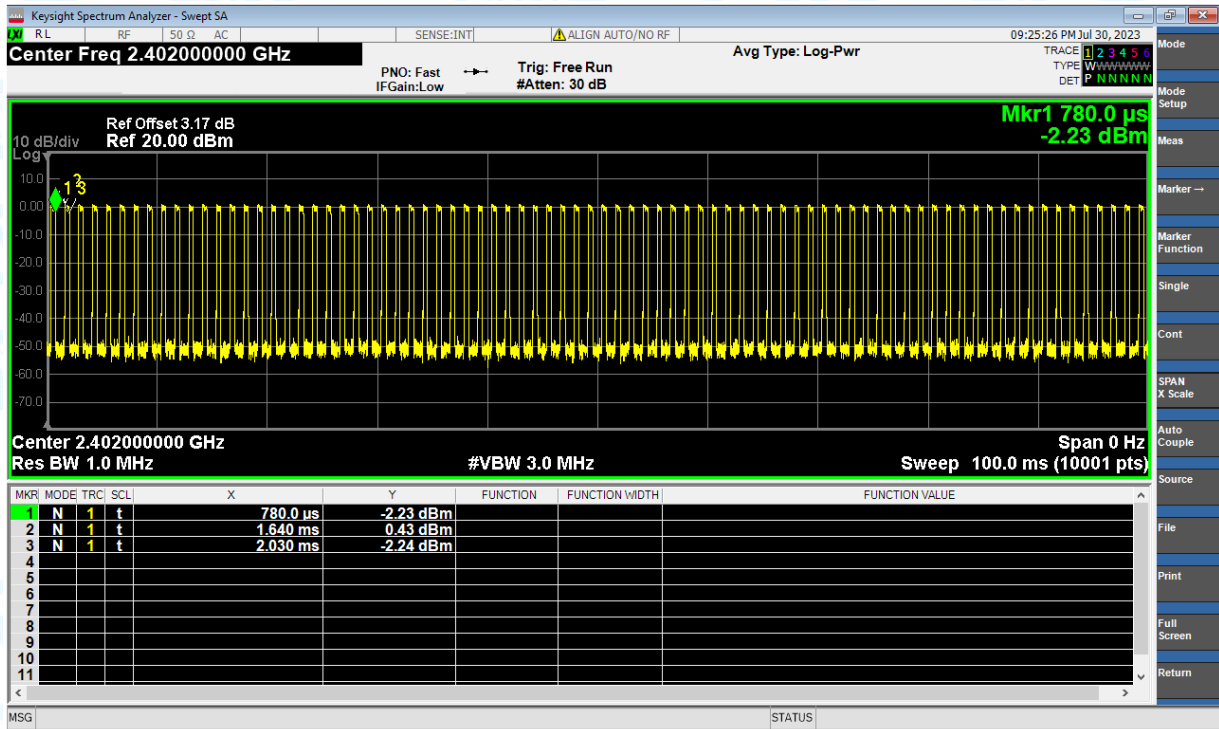
Duty Cycle NVNT 2-DH1 2441MHz Ant1



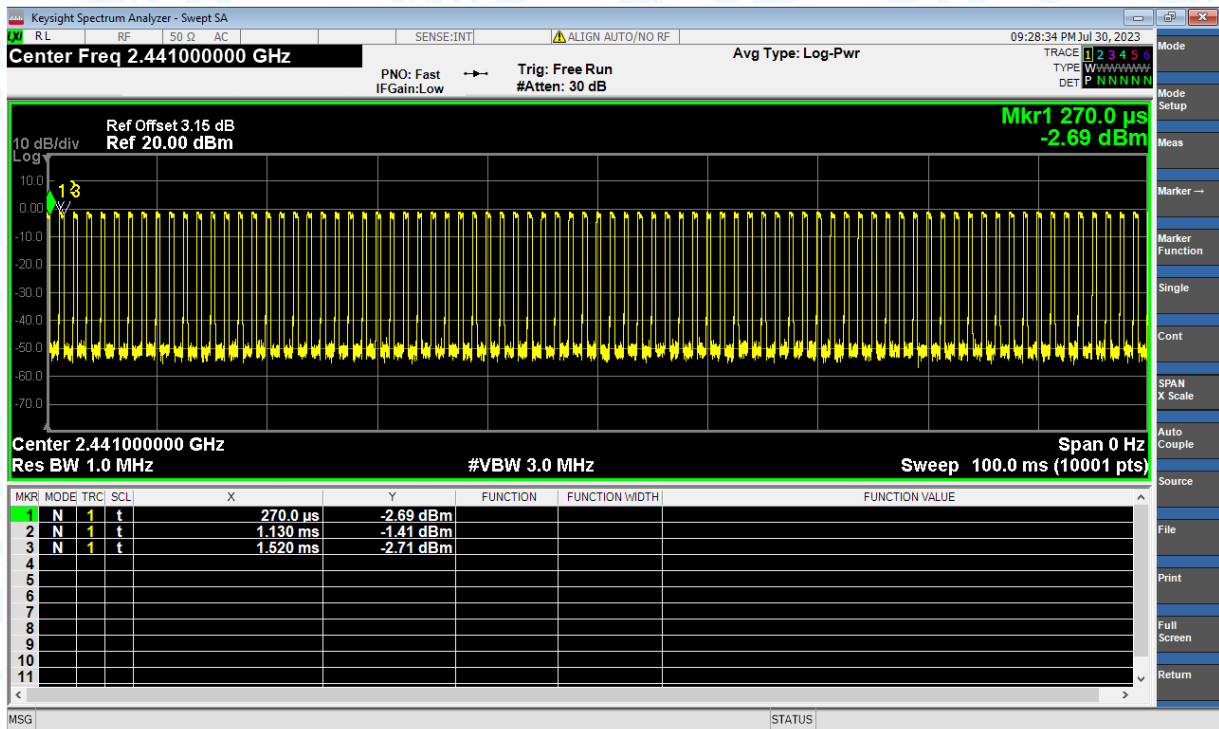
Duty Cycle NVNT 2-DH1 2480MHz Ant1

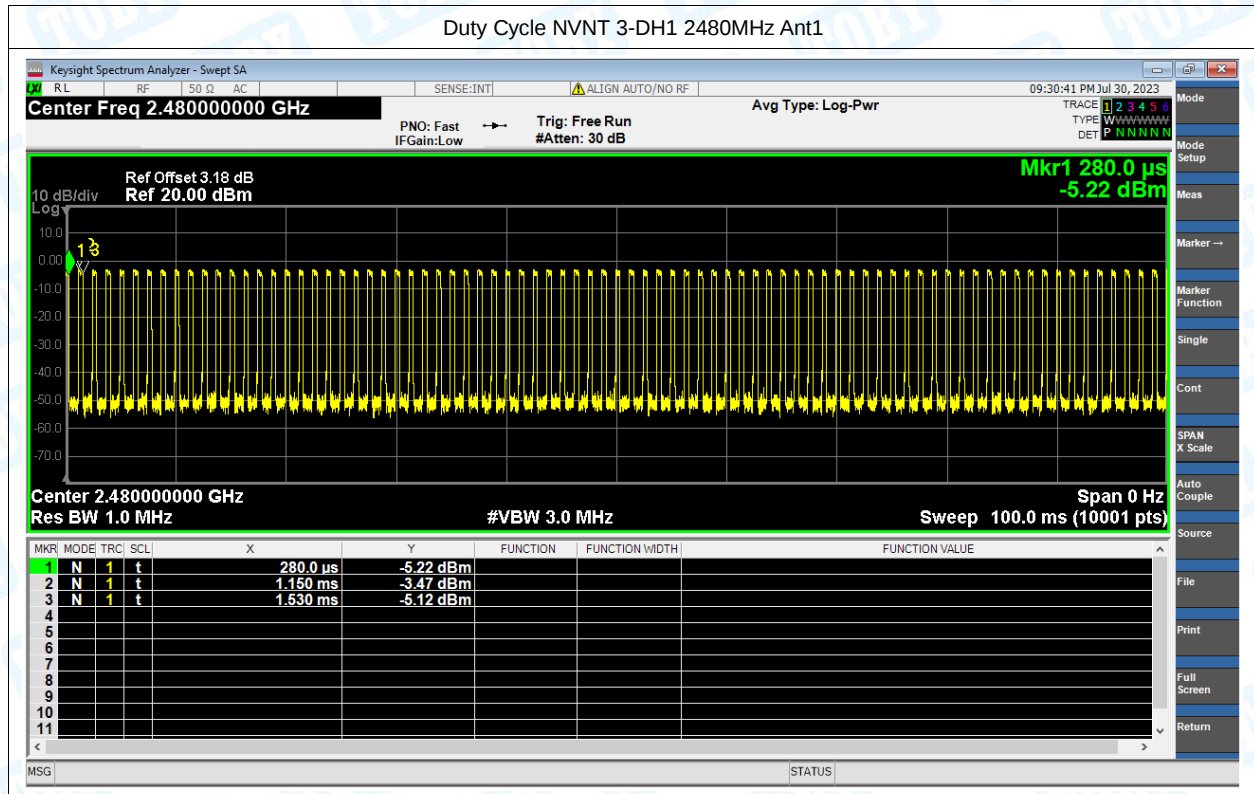


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



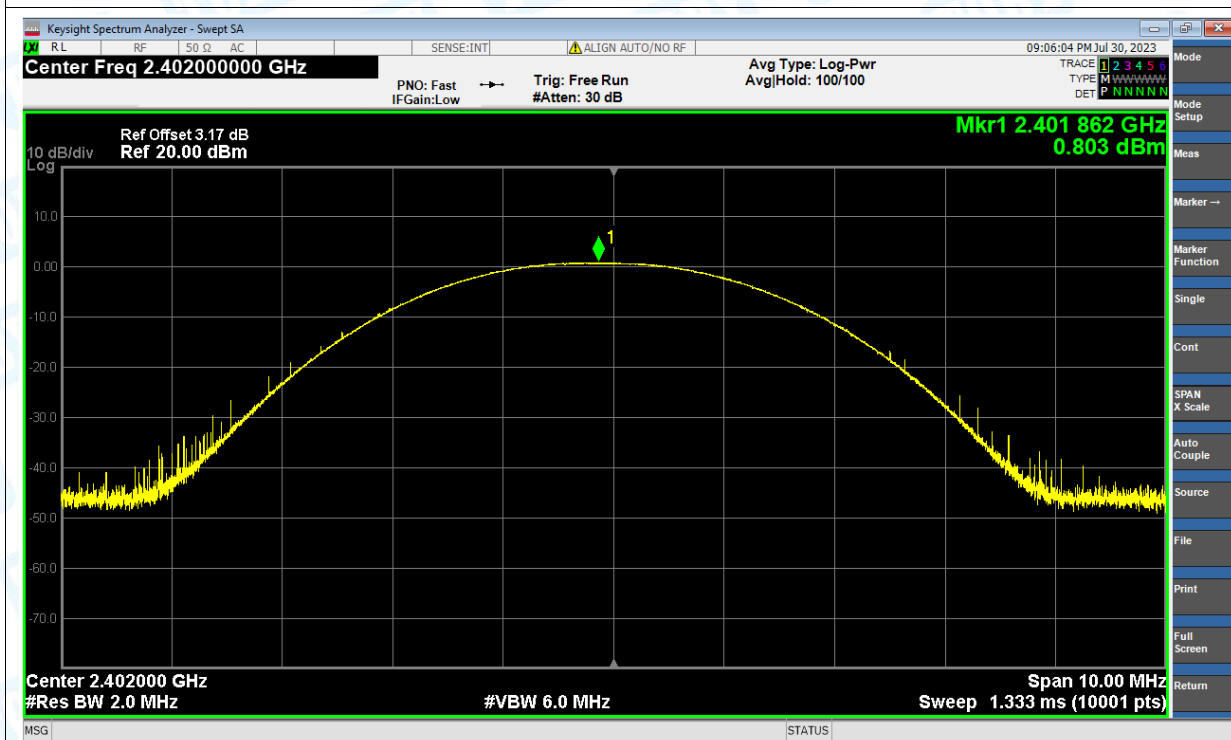


2. Maximum Conducted Output Power

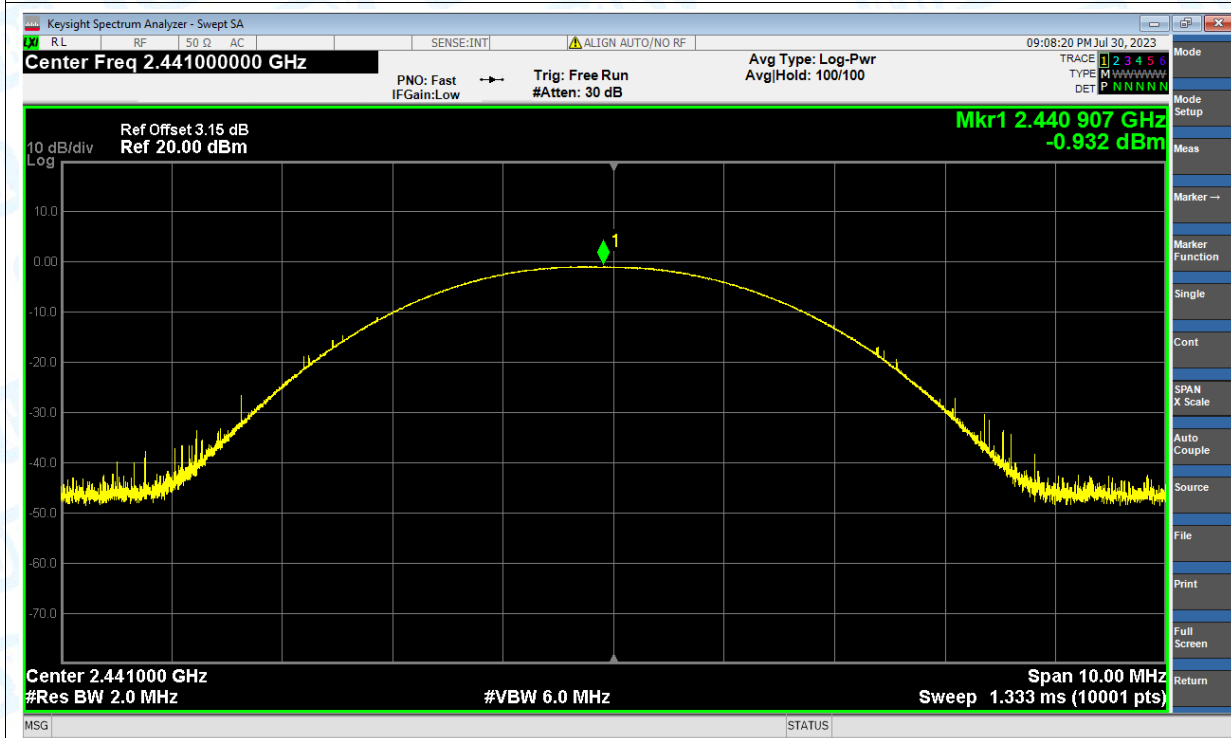
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	0.803	21	Pass
NVNT	1-DH1	2441	Ant1	-0.932	21	Pass
NVNT	1-DH1	2480	Ant1	-3.007	21	Pass
NVNT	2-DH1	2402	Ant1	0.868	21	Pass
NVNT	2-DH1	2441	Ant1	-0.967	21	Pass
NVNT	2-DH1	2480	Ant1	-3.007	21	Pass
NVNT	3-DH1	2402	Ant1	1.091	21	Pass
NVNT	3-DH1	2441	Ant1	-0.806	21	Pass
NVNT	3-DH1	2480	Ant1	-2.659	21	Pass

Test Graphs

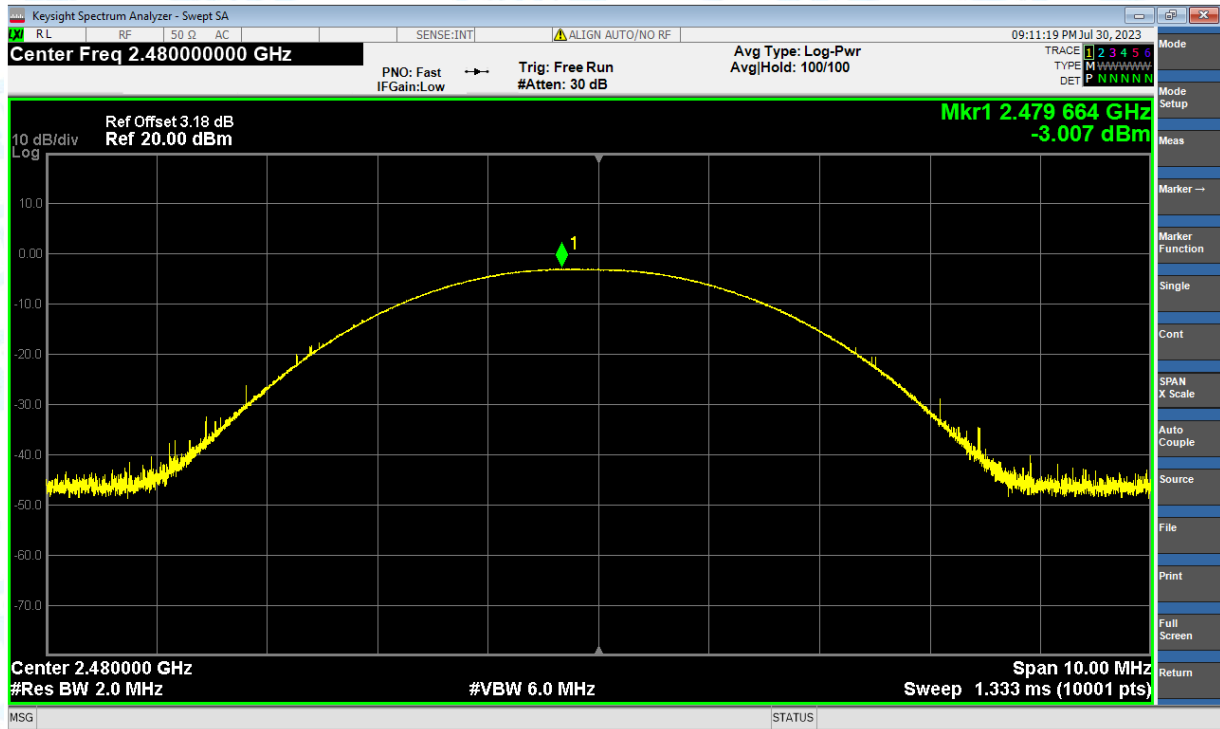
Power NVNT 1-DH1 2402MHz Ant1



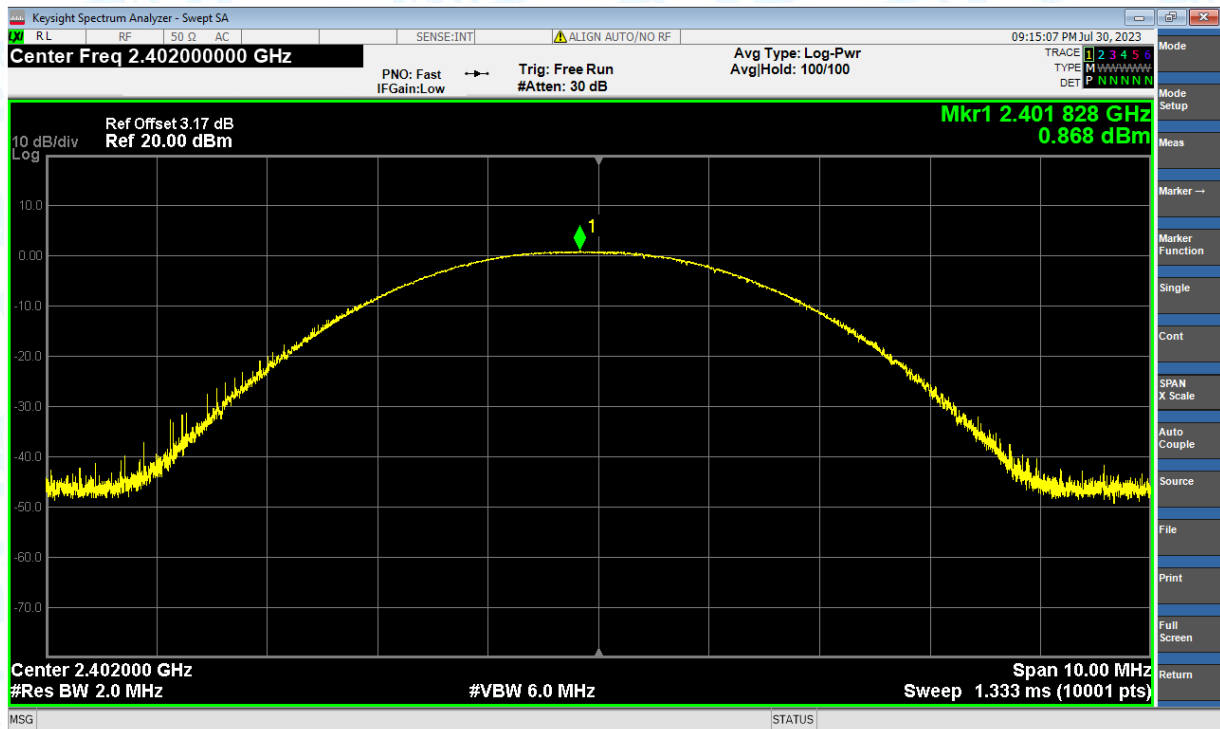
Power NVNT 1-DH1 2441MHz Ant1



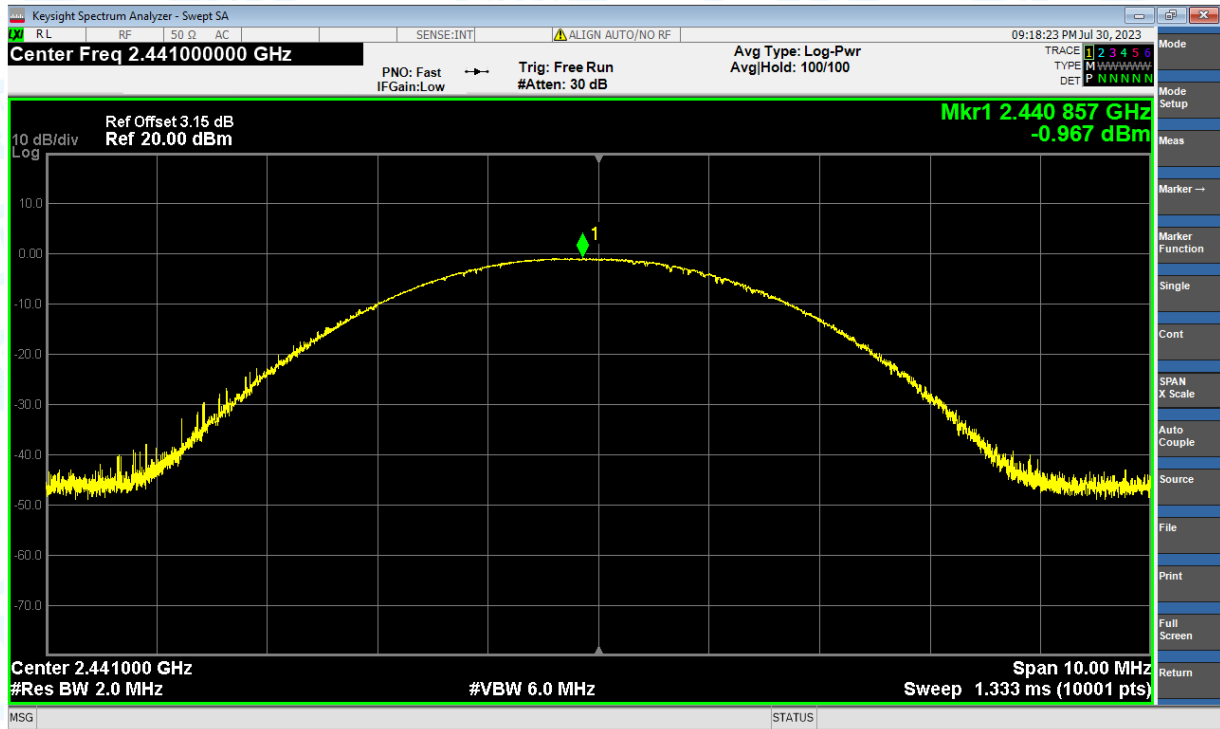
Power NVNT 1-DH1 2480MHz Ant1



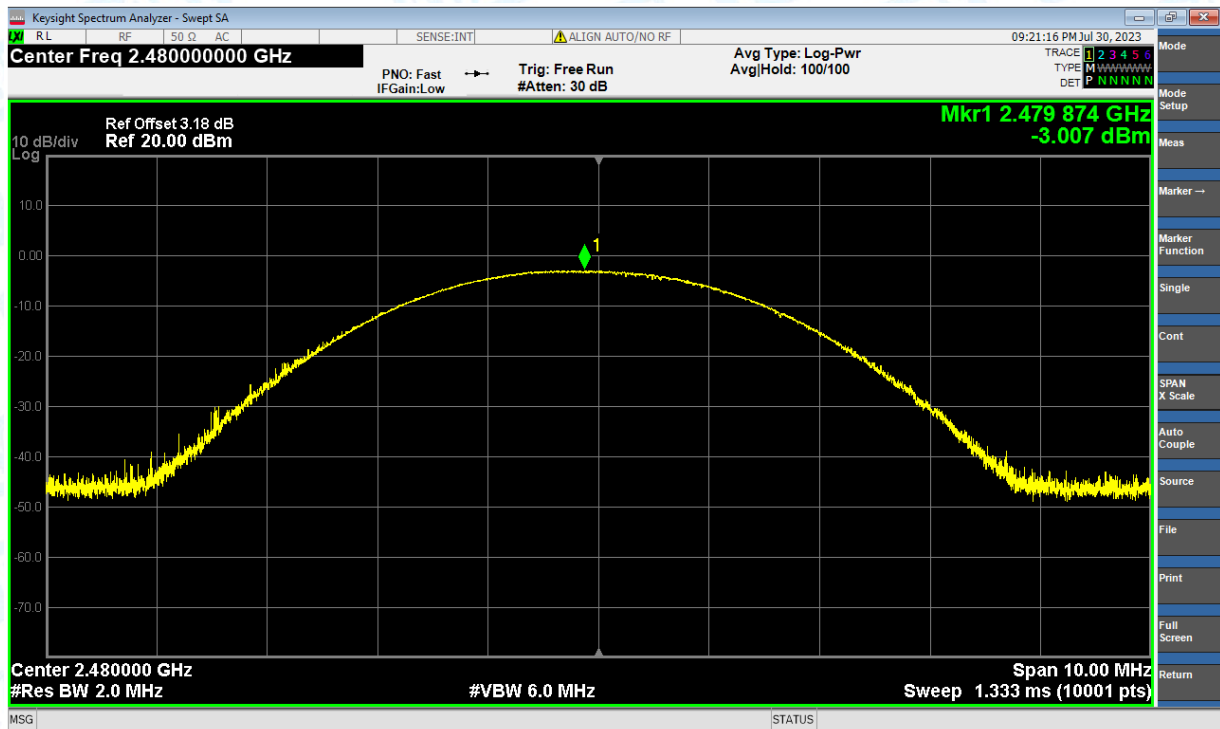
Power NVNT 2-DH1 2402MHz Ant1



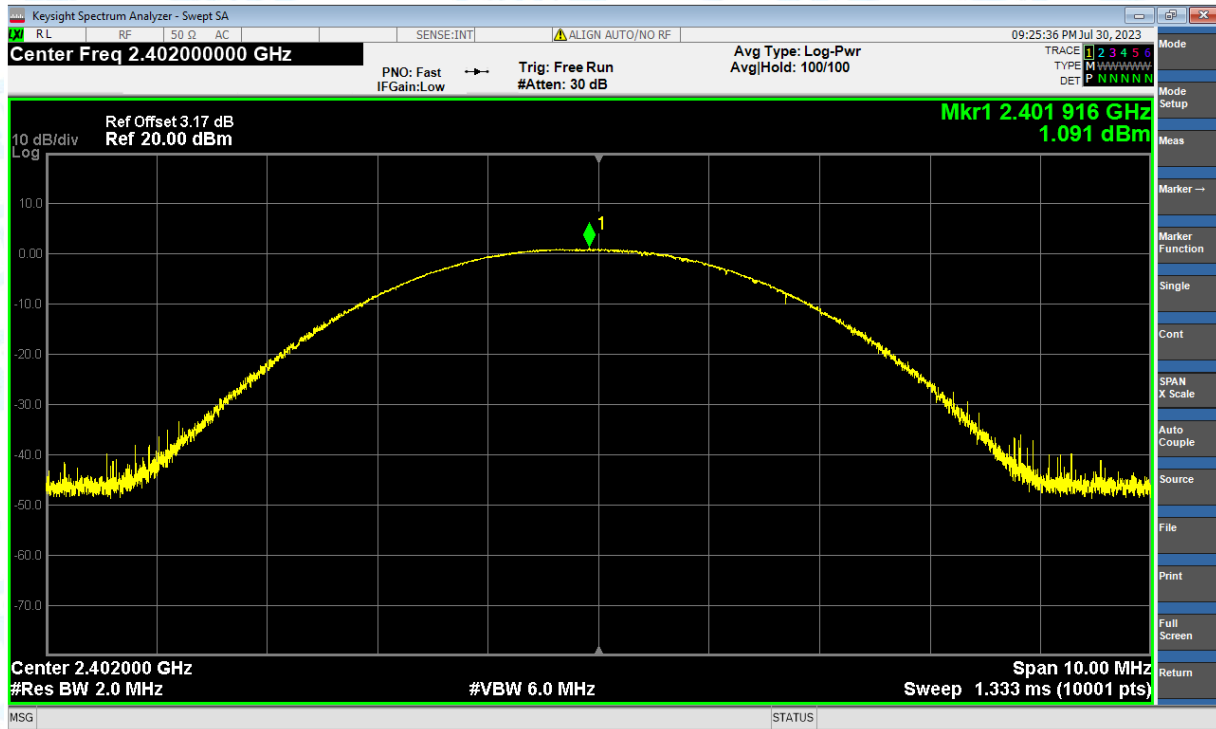
Power NVNT 2-DH1 2441MHz Ant1



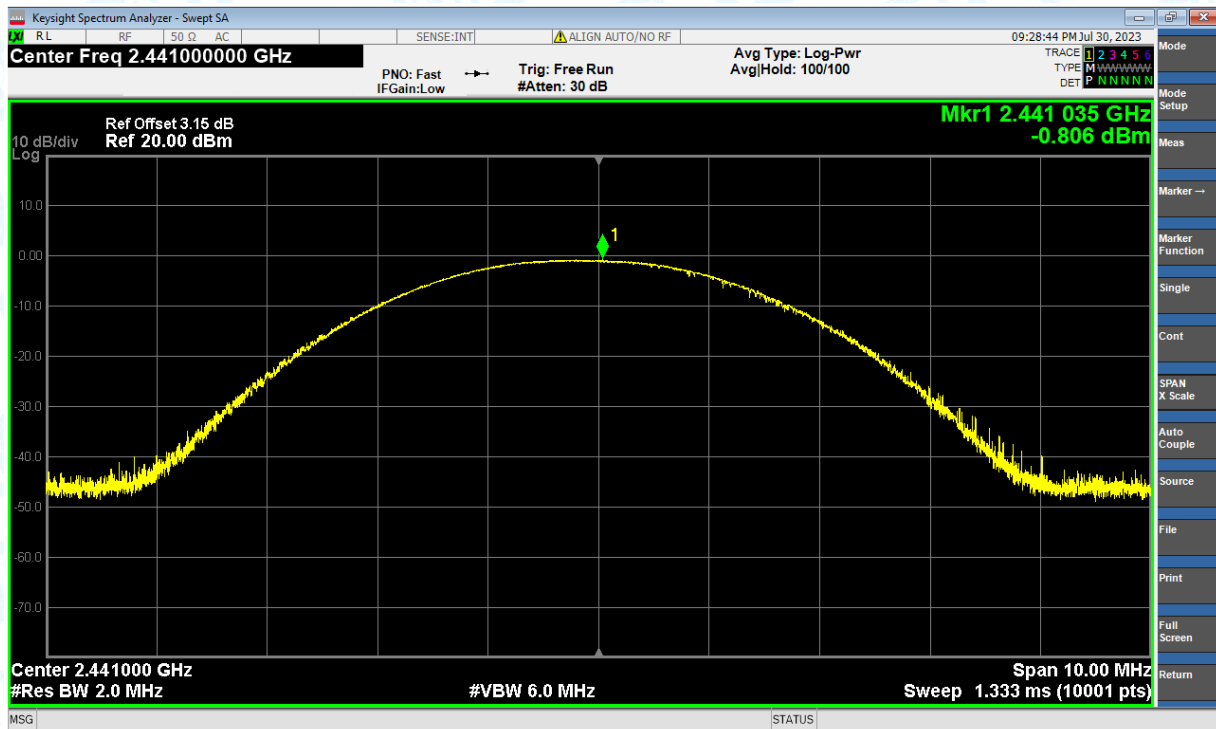
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



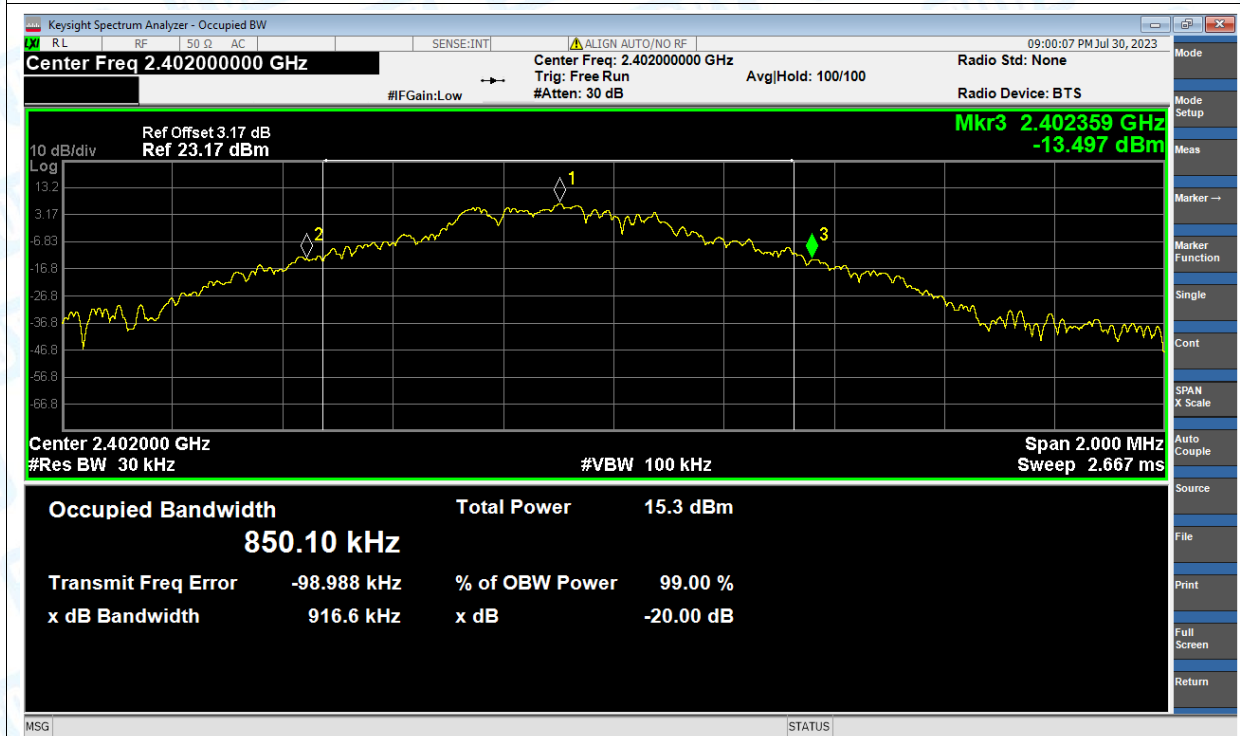


3. -20dB Bandwidth

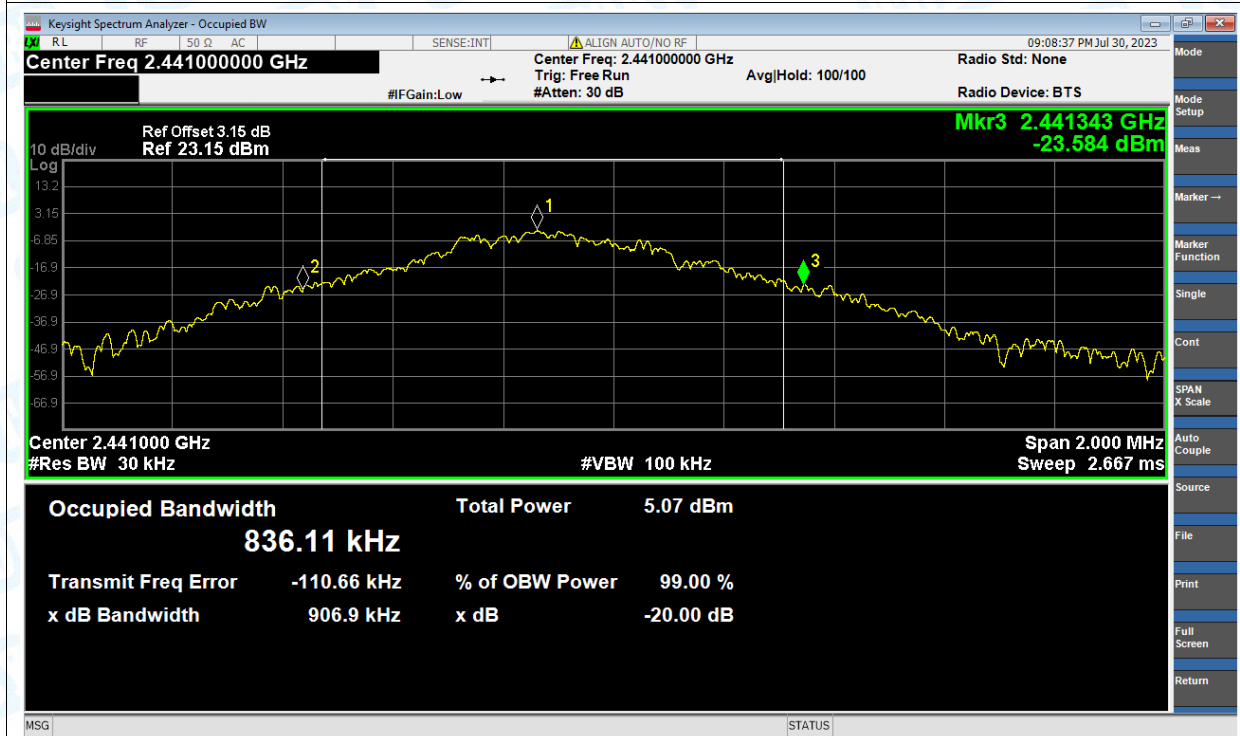
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.92	0	Pass
NVNT	1-DH1	2441	Ant1	0.91	0	Pass
NVNT	1-DH1	2480	Ant1	1.01	0	Pass
NVNT	2-DH1	2402	Ant1	1.29	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.29	0	Pass
NVNT	3-DH1	2402	Ant1	1.25	0	Pass
NVNT	3-DH1	2441	Ant1	1.28	0	Pass
NVNT	3-DH1	2480	Ant1	1.28	0	Pass

Test Graphs

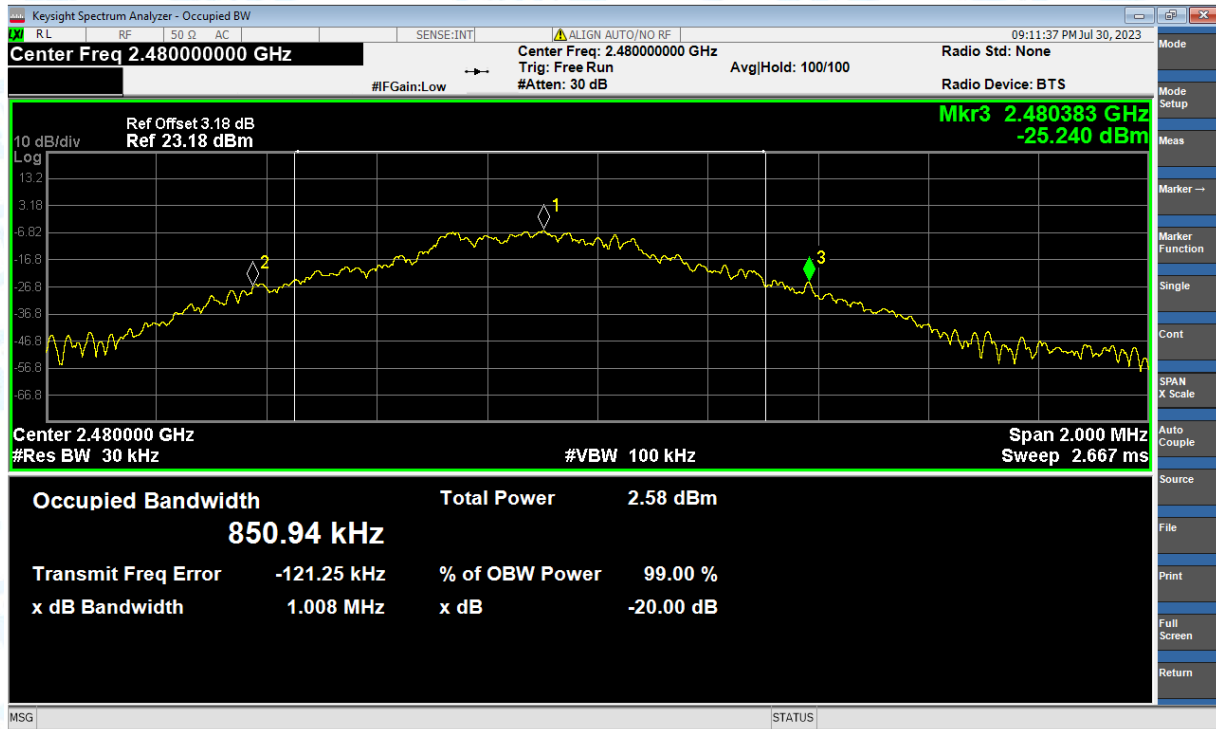
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



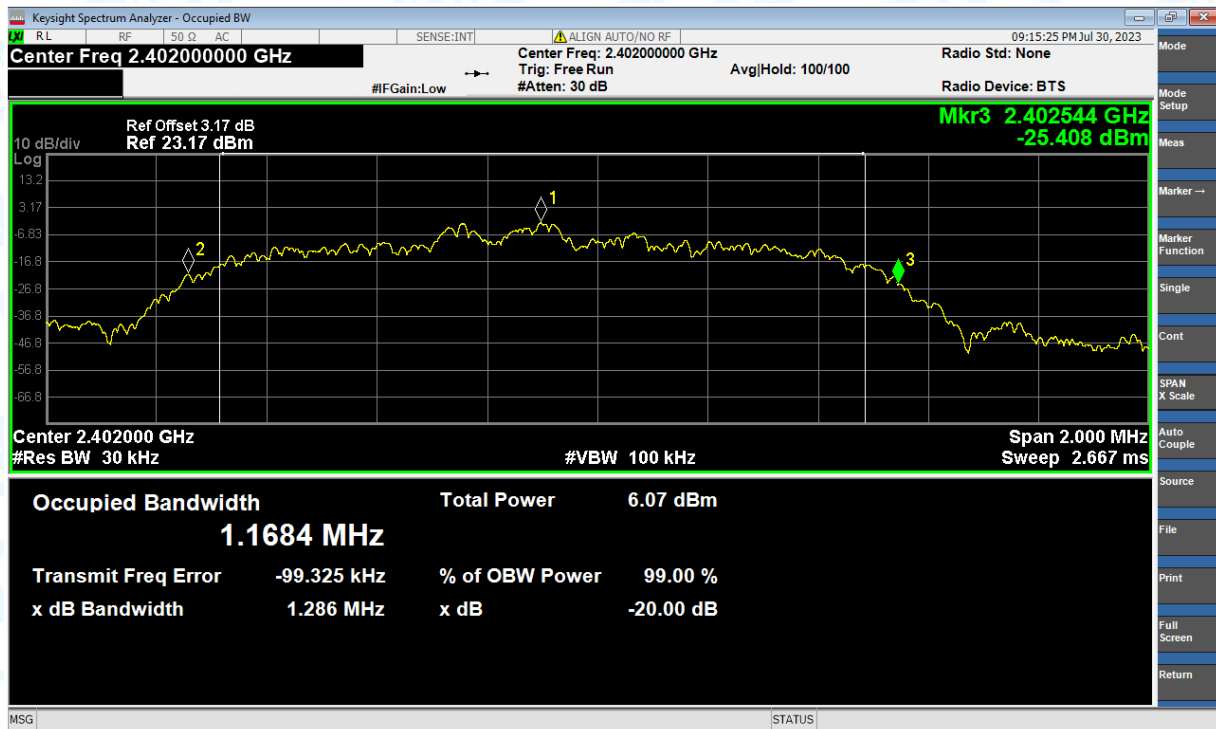
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



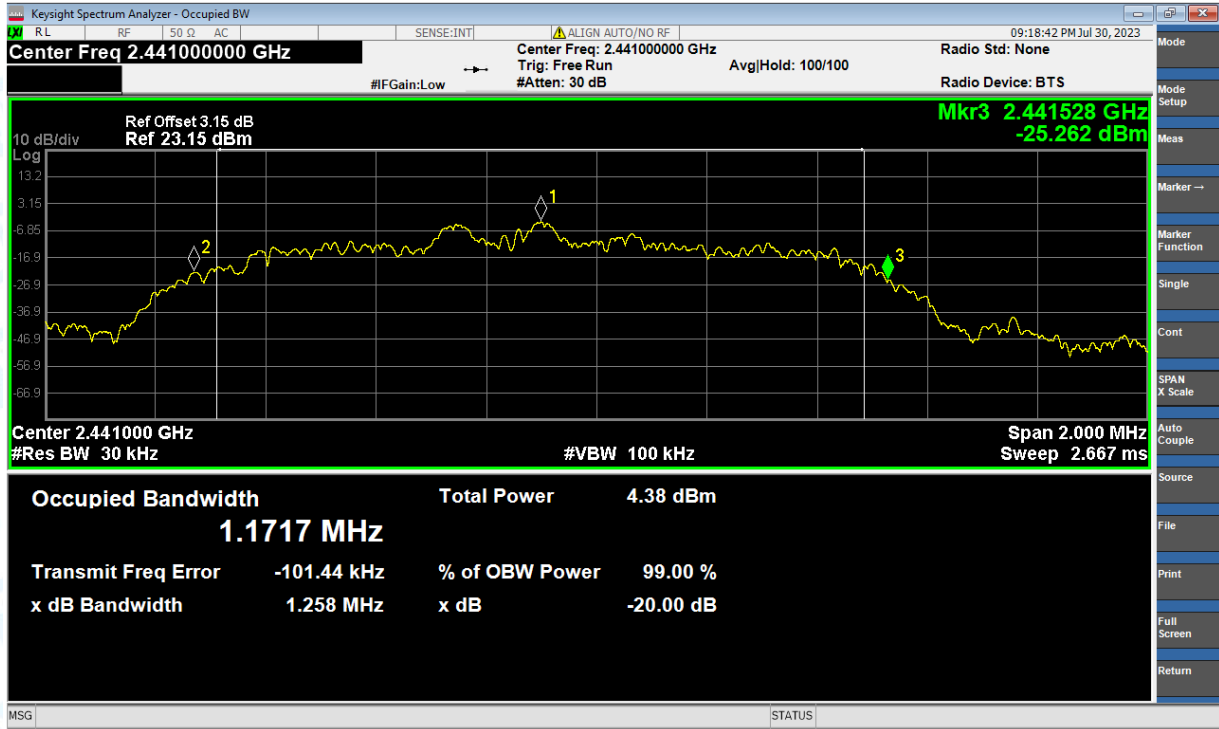
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



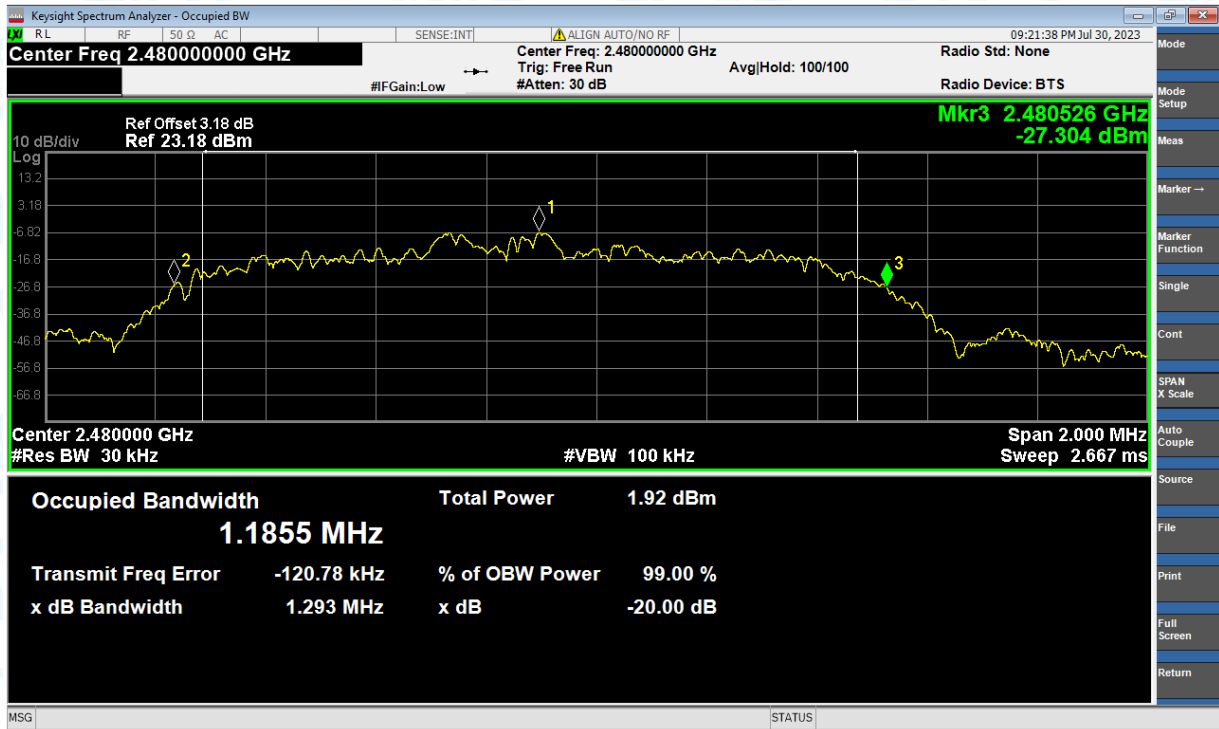
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



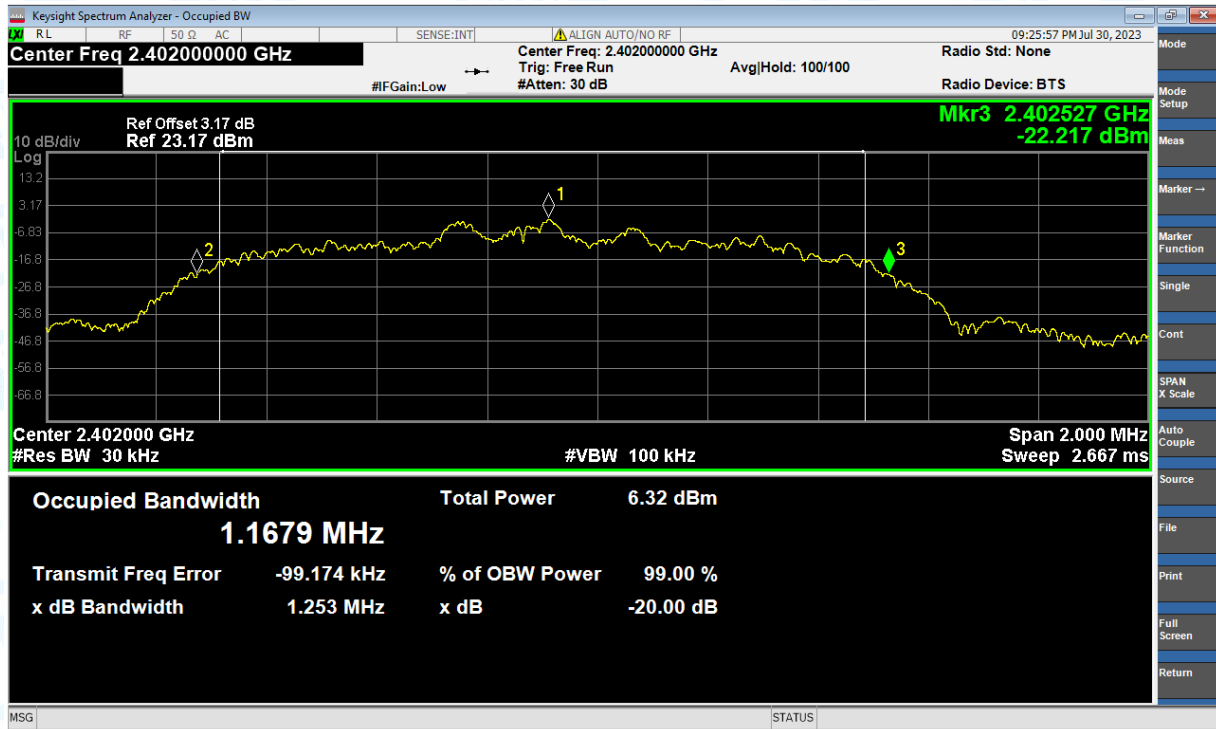
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



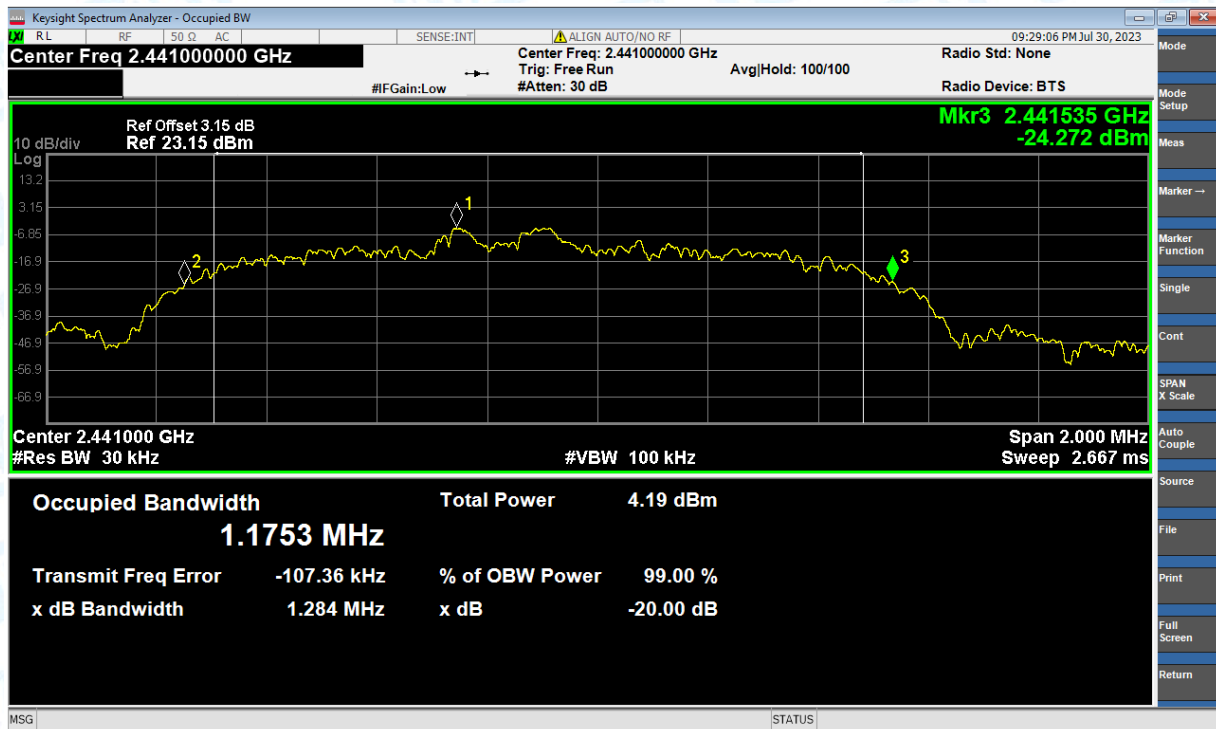
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

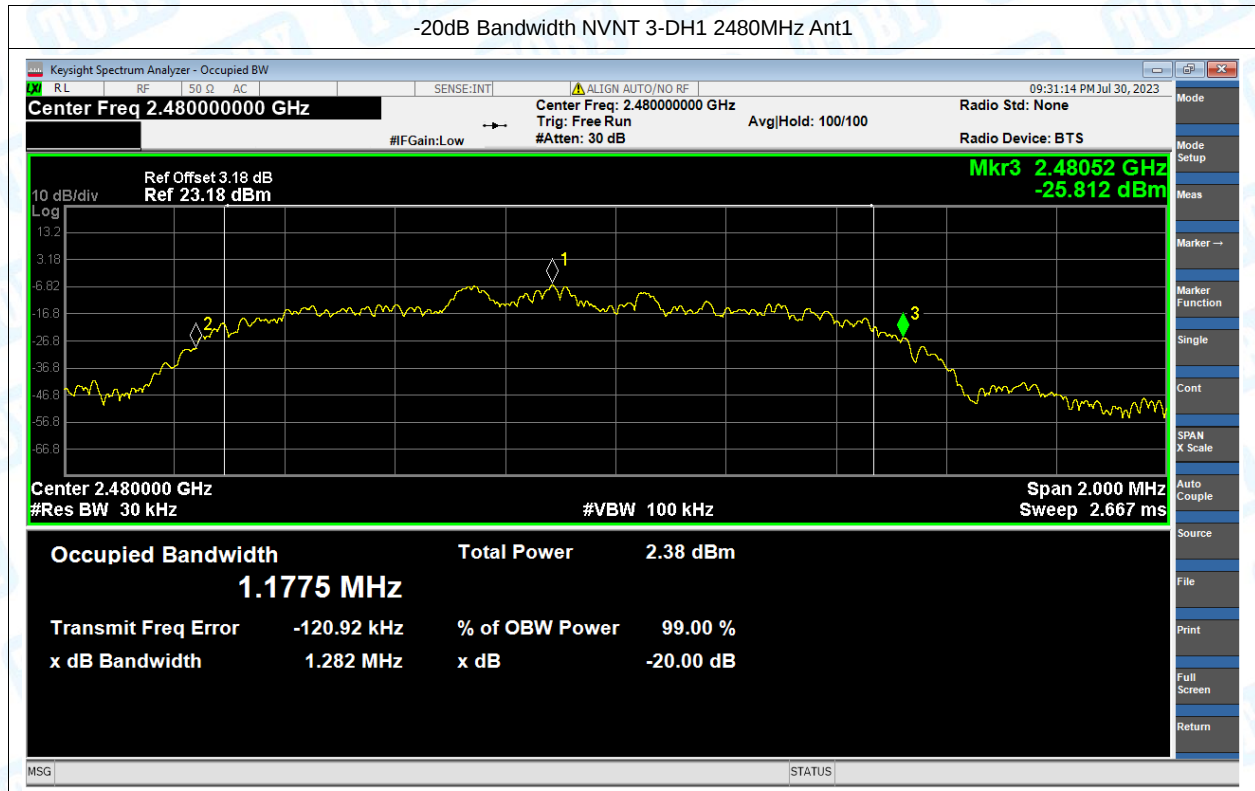


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



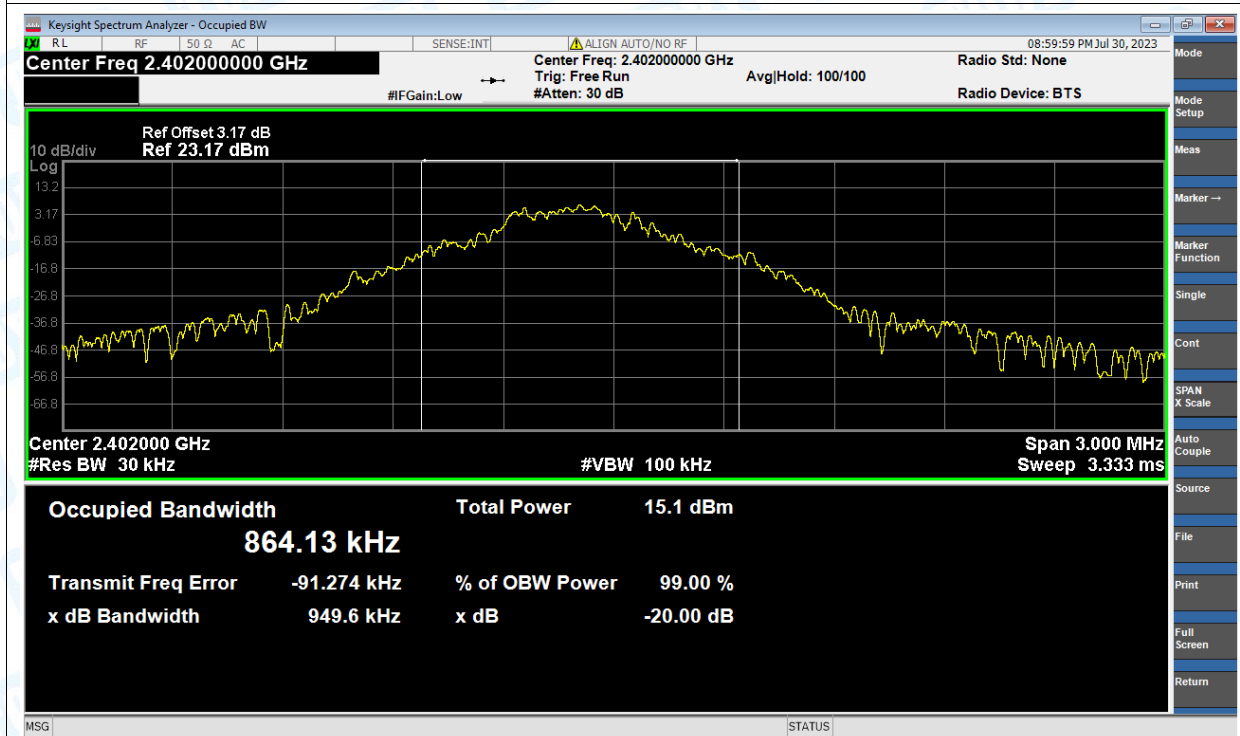


4. Occupied Channel Bandwidth

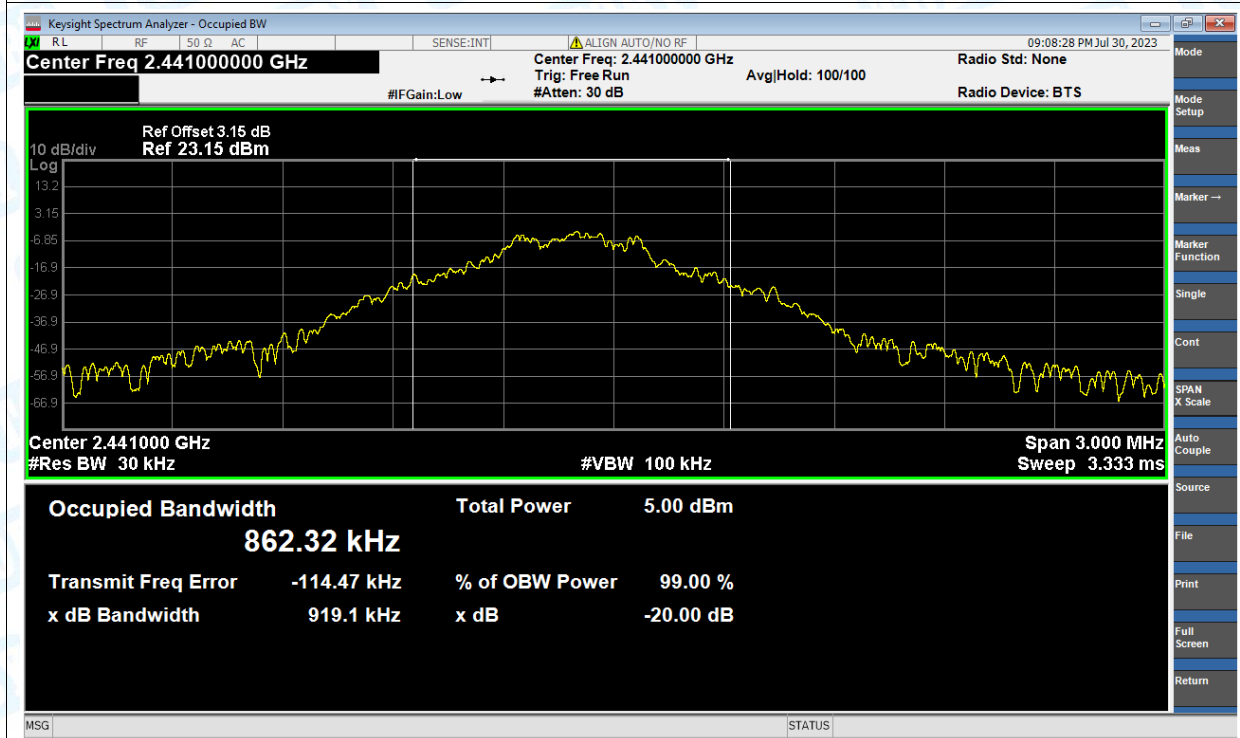
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.864
NVNT	1-DH1	2441	Ant1	0.862
NVNT	1-DH1	2480	Ant1	0.868
NVNT	2-DH1	2402	Ant1	1.176
NVNT	2-DH1	2441	Ant1	1.162
NVNT	2-DH1	2480	Ant1	1.181
NVNT	3-DH1	2402	Ant1	1.172
NVNT	3-DH1	2441	Ant1	1.155
NVNT	3-DH1	2480	Ant1	1.157

Test Graphs

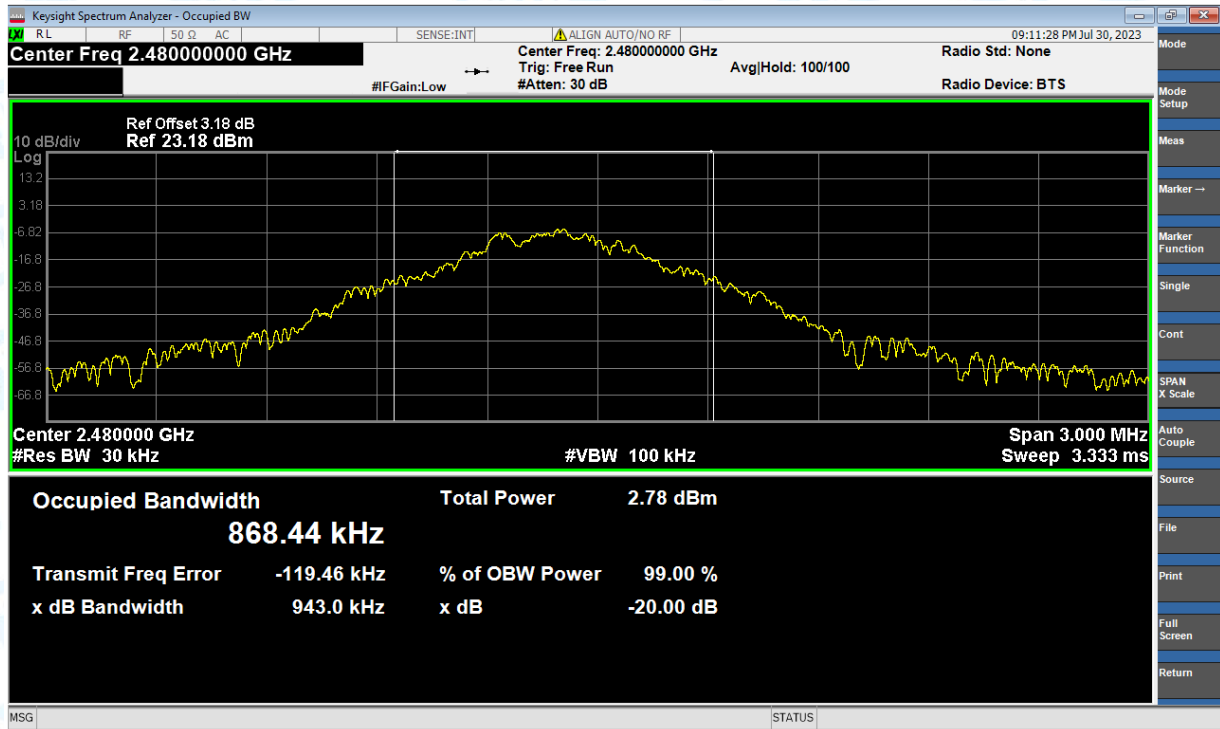
OBW NVNT 1-DH1 2402MHz Ant1



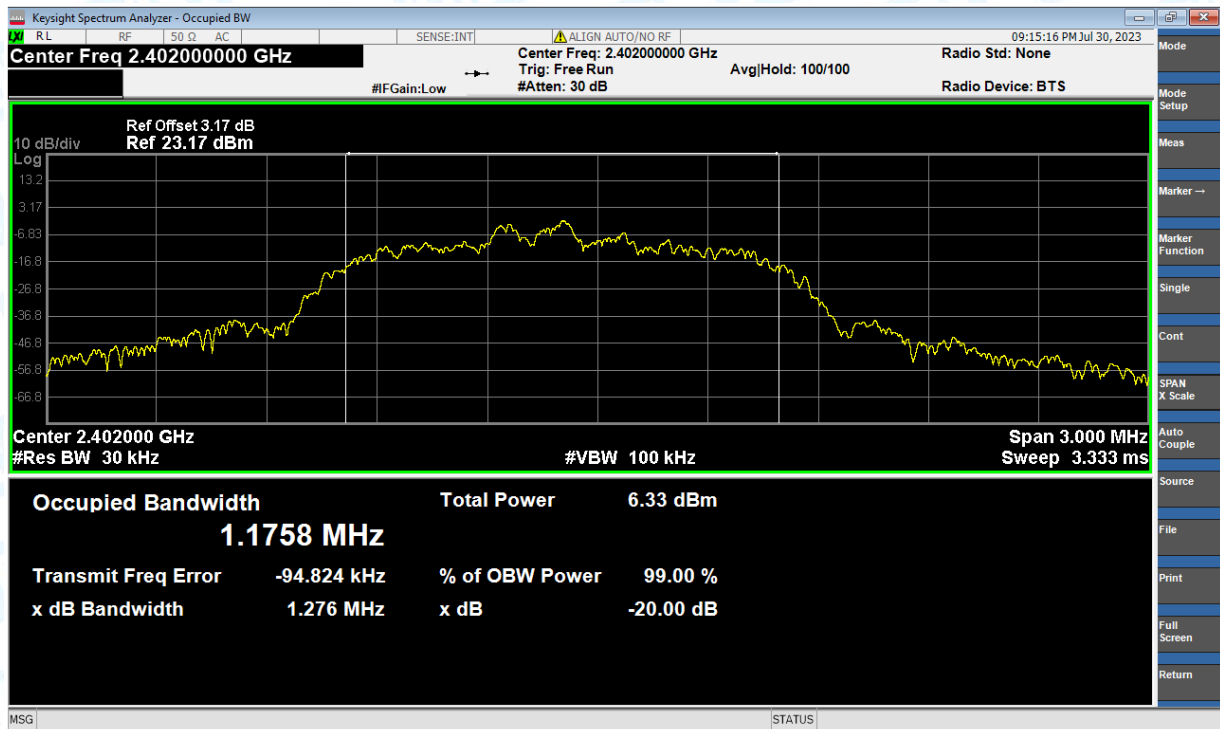
OBW NVNT 1-DH1 2441MHz Ant1



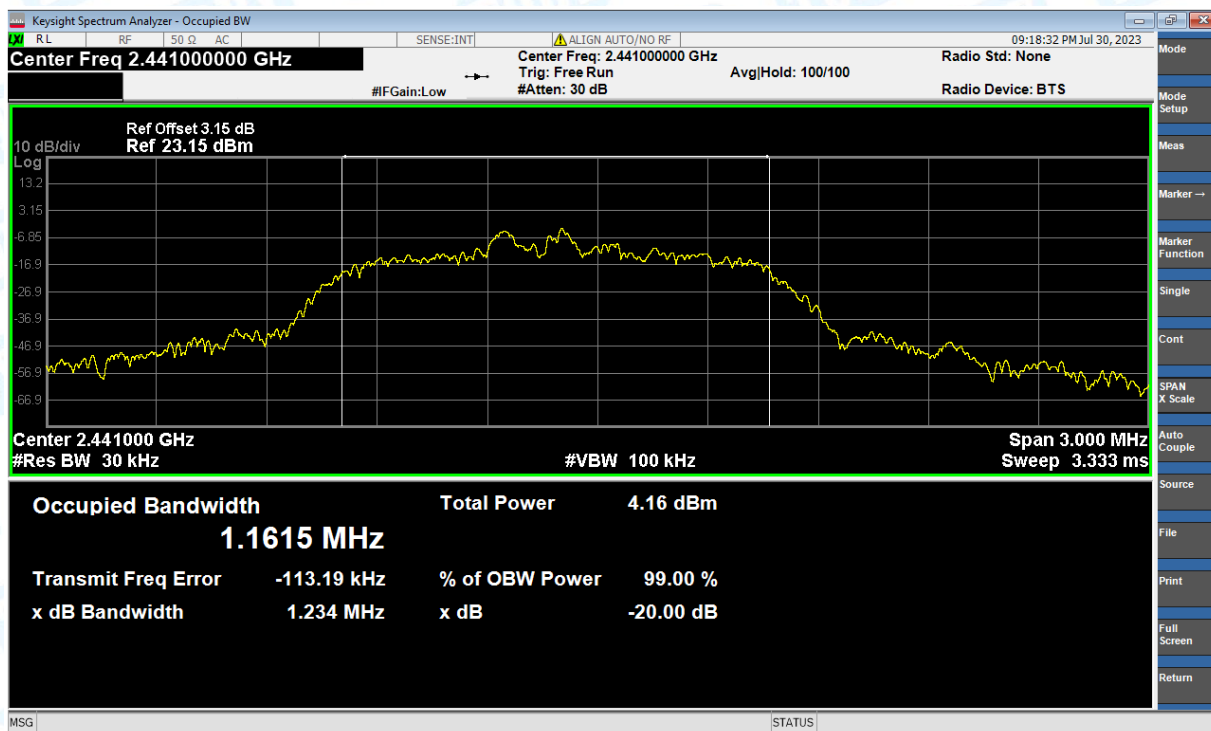
OBW NVNT 1-DH1 2480MHz Ant1



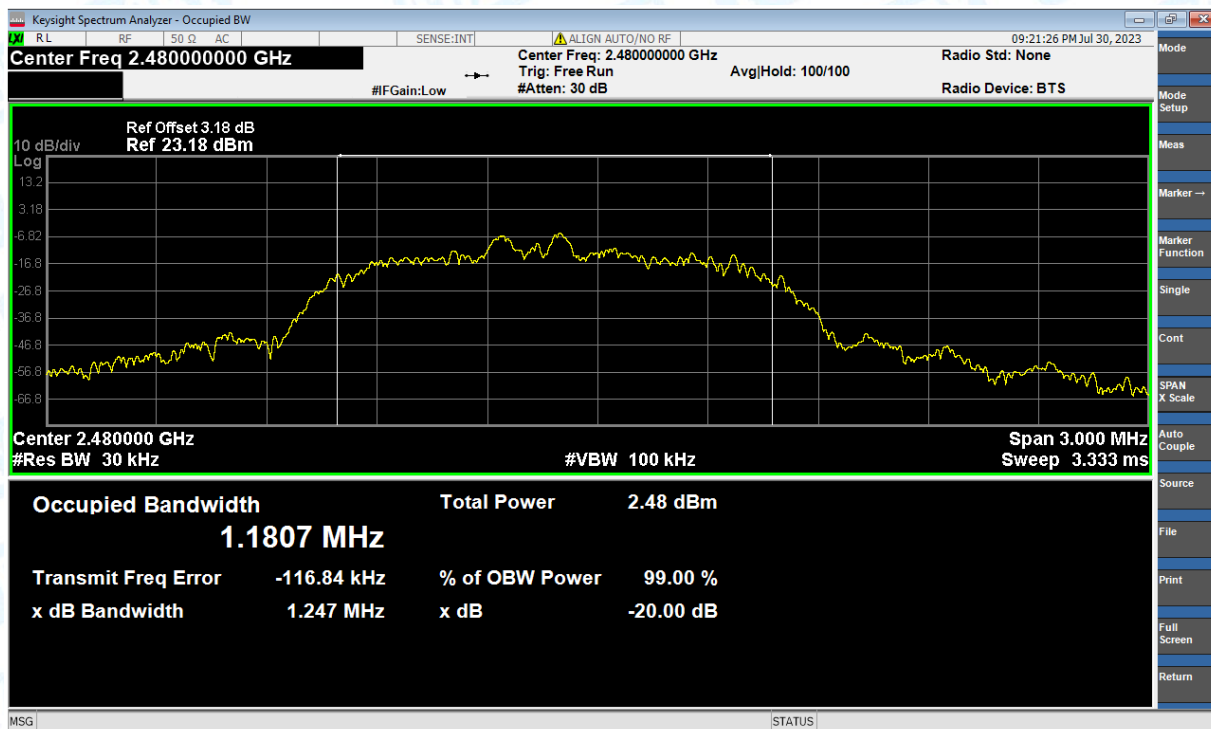
OBW NVNT 2-DH1 2402MHz Ant1



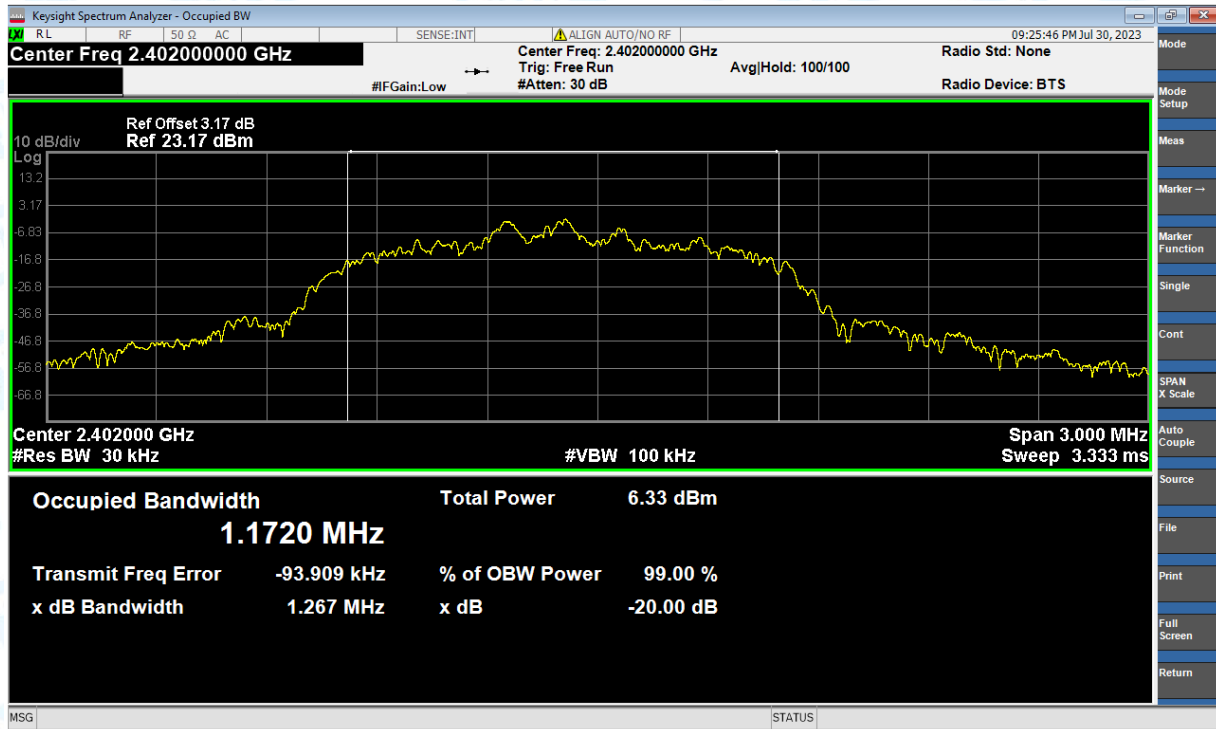
OBW NVNT 2-DH1 2441MHz Ant1



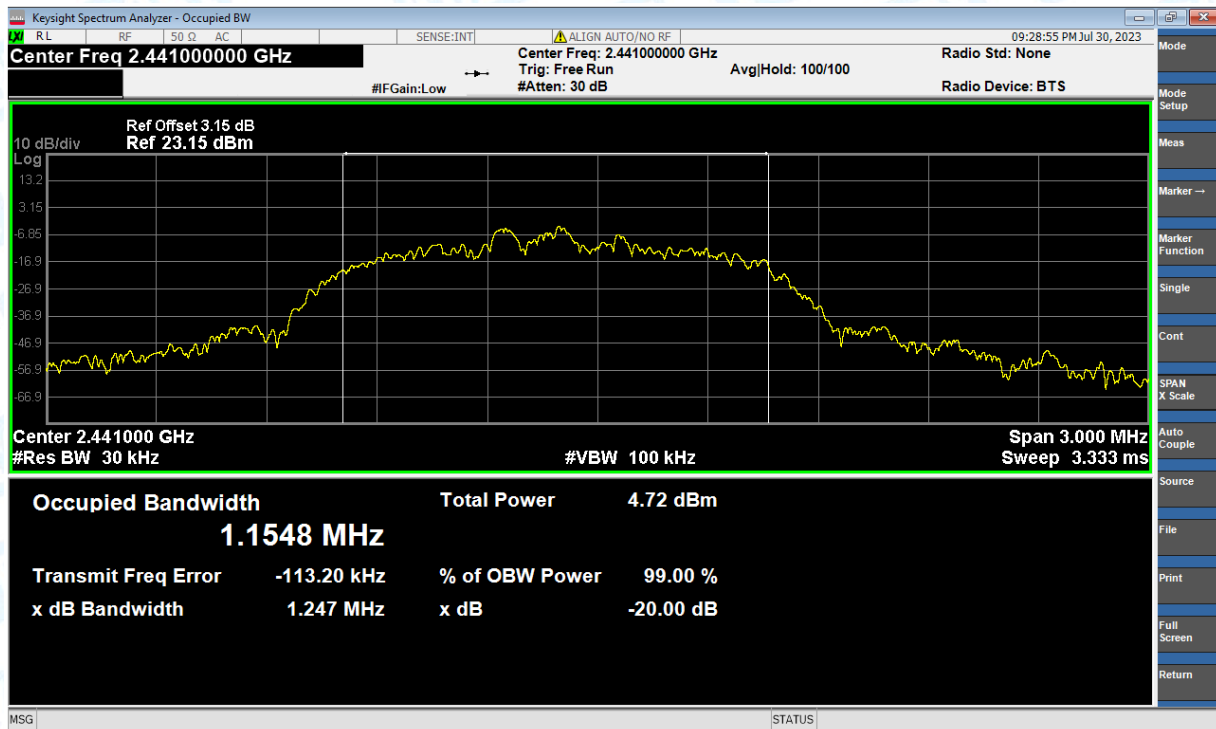
OBW NVNT 2-DH1 2480MHz Ant1

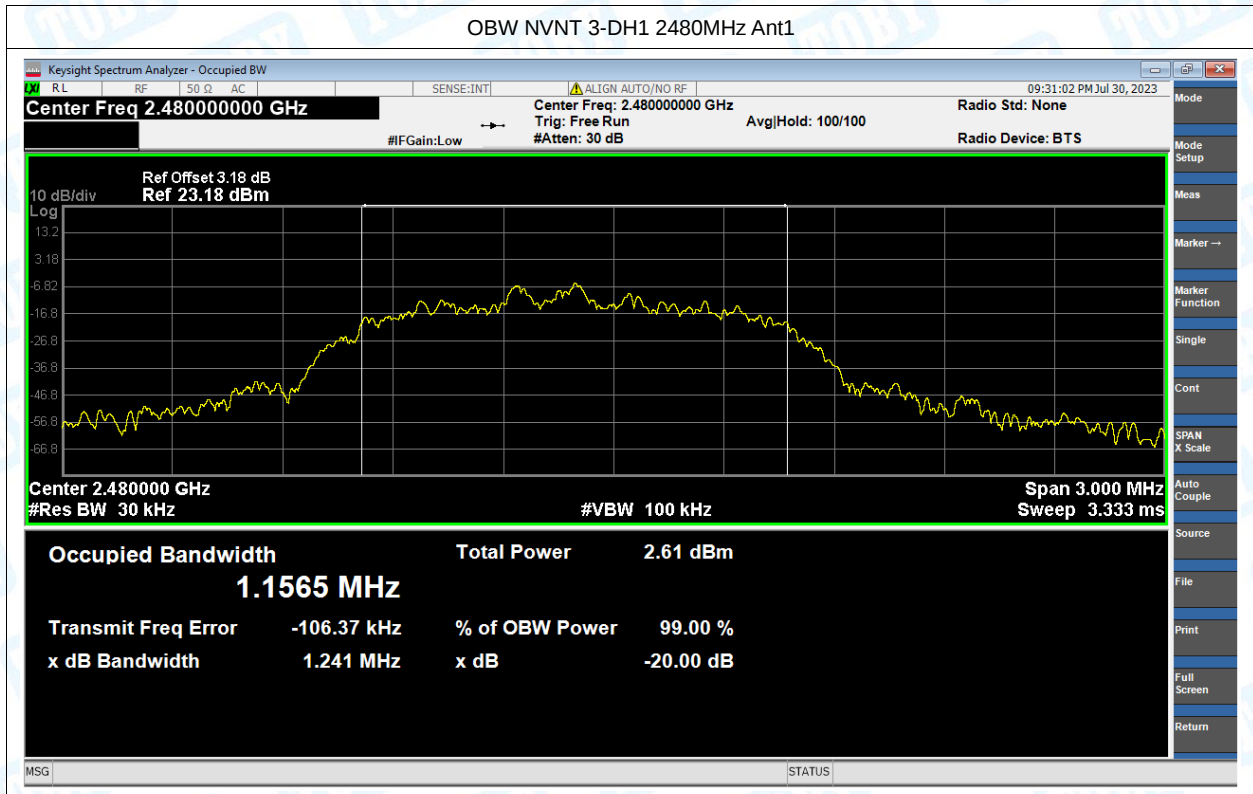


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



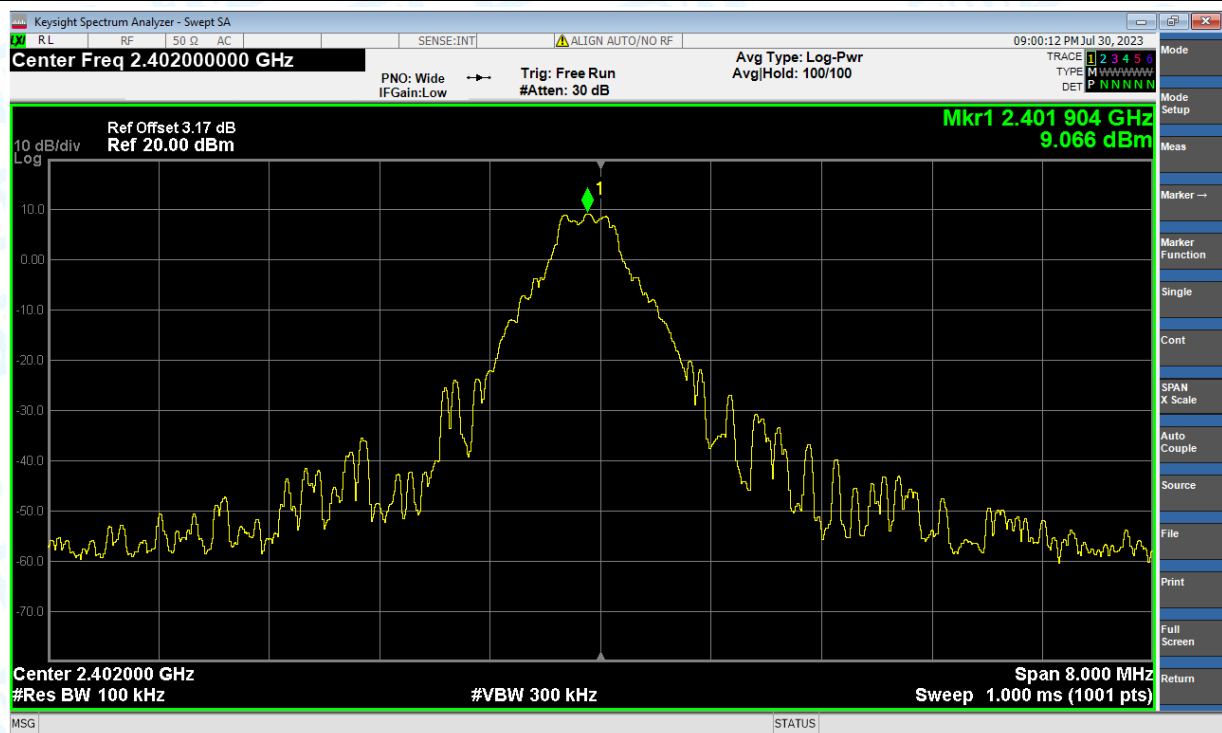


5. Band Edge

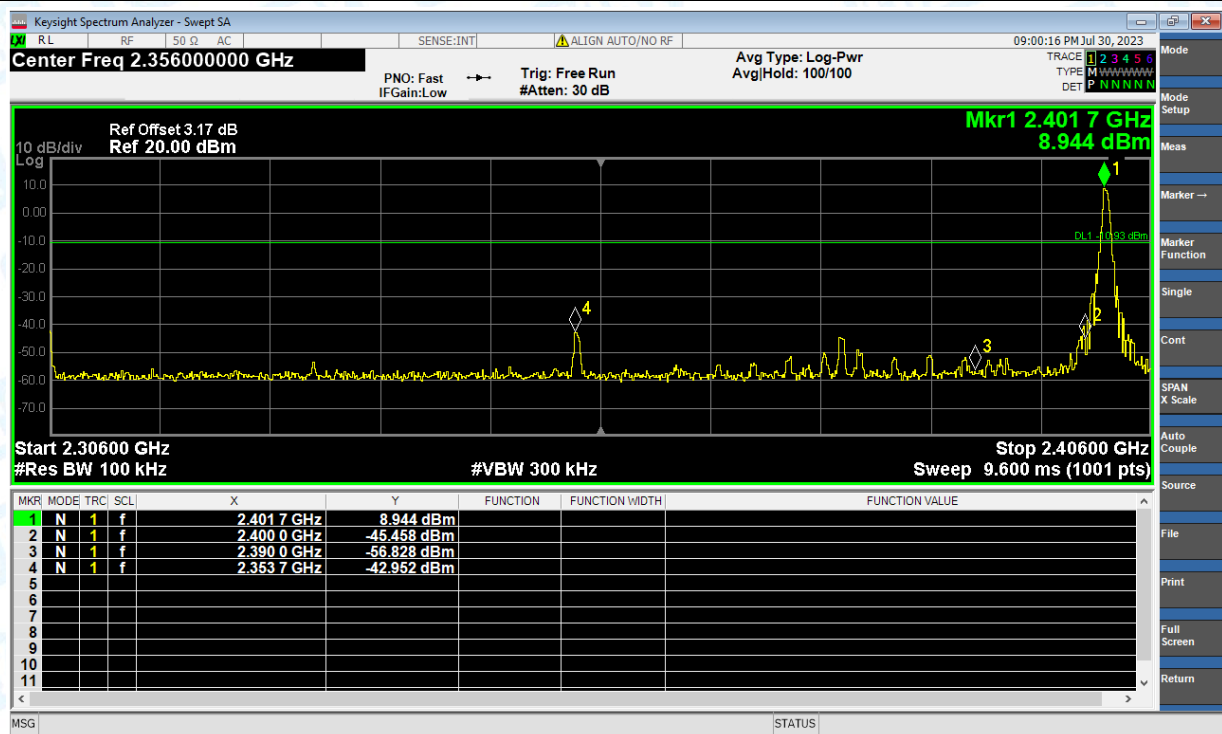
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-52.02	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-51.01	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-48.86	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-52.14	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-48.98	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-52.19	-20	Pass

Test Graphs

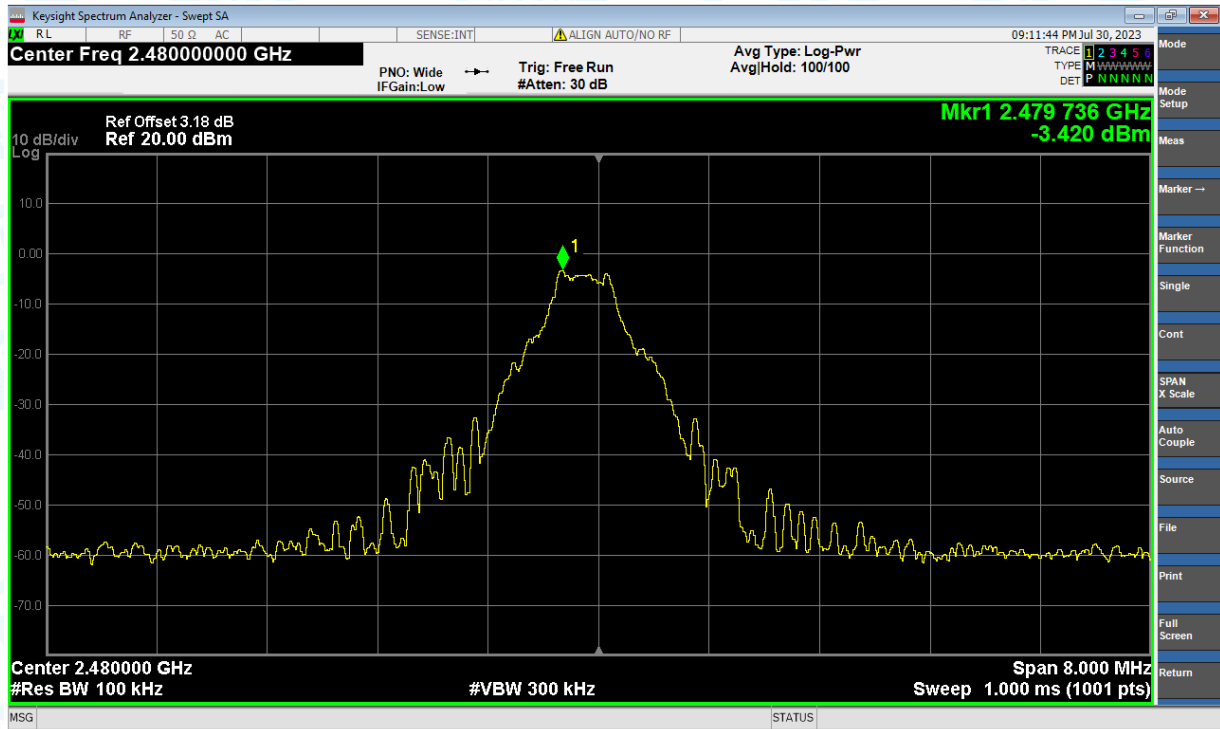
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



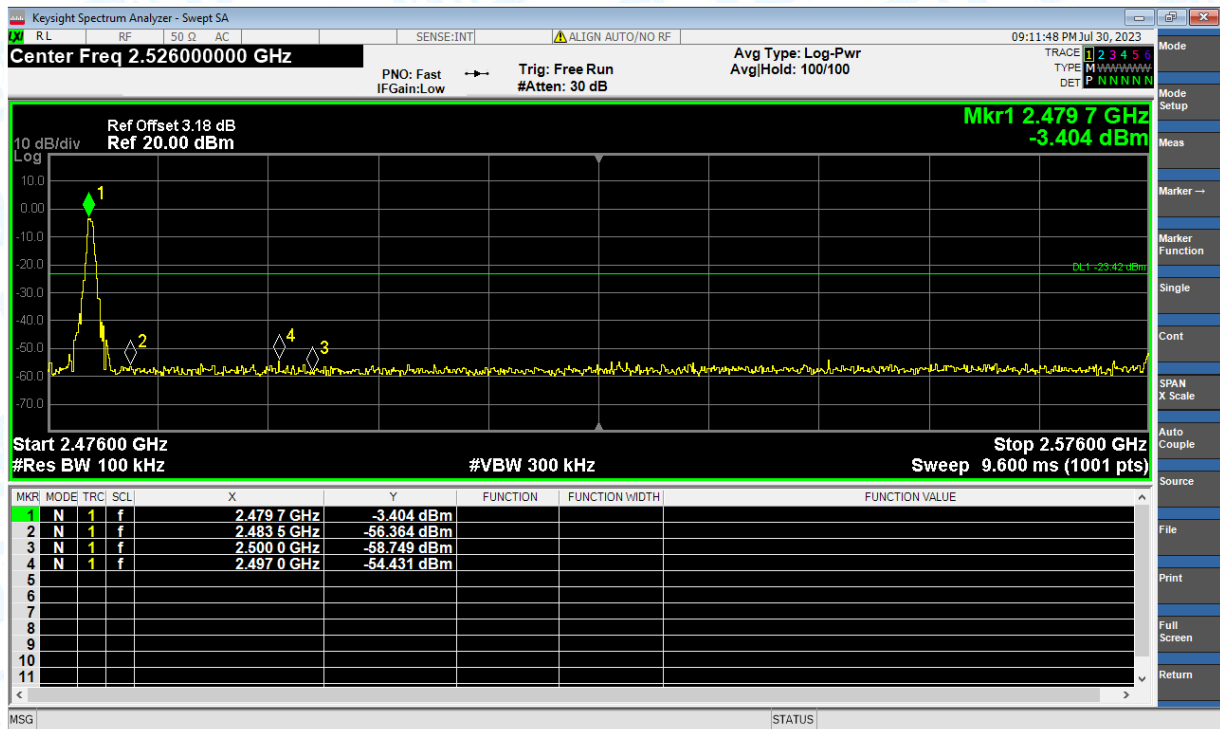
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



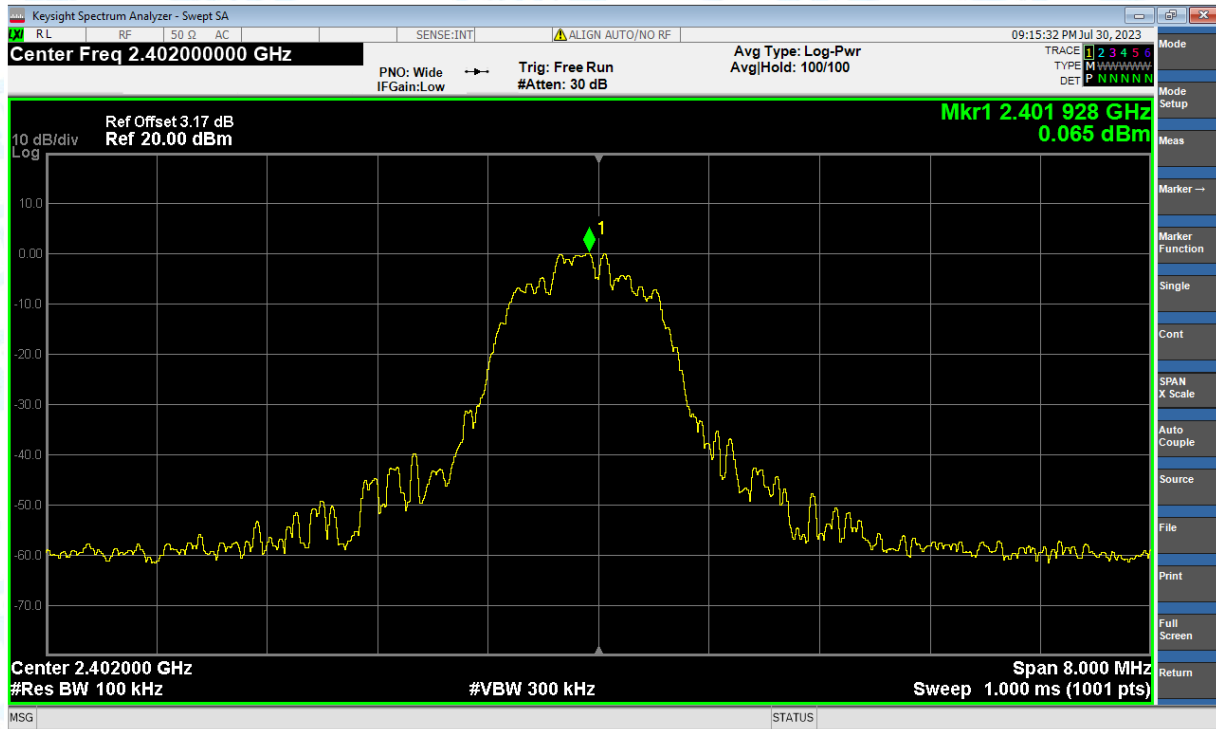
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



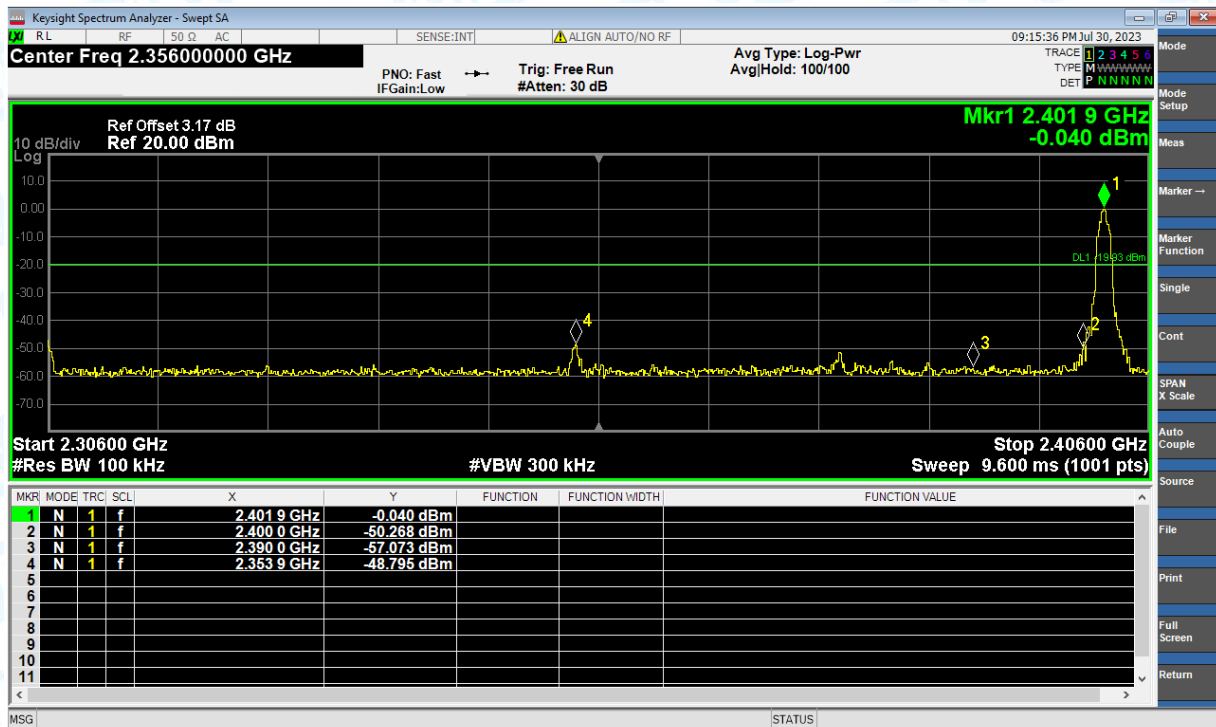
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



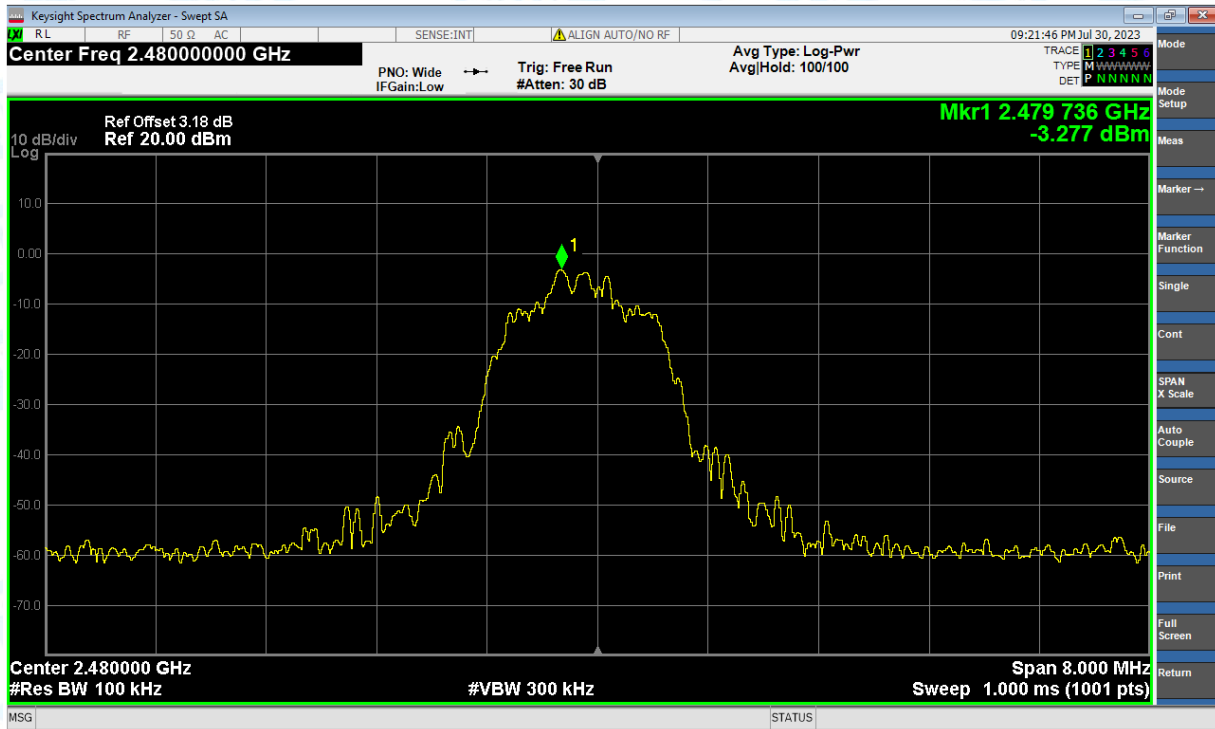
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



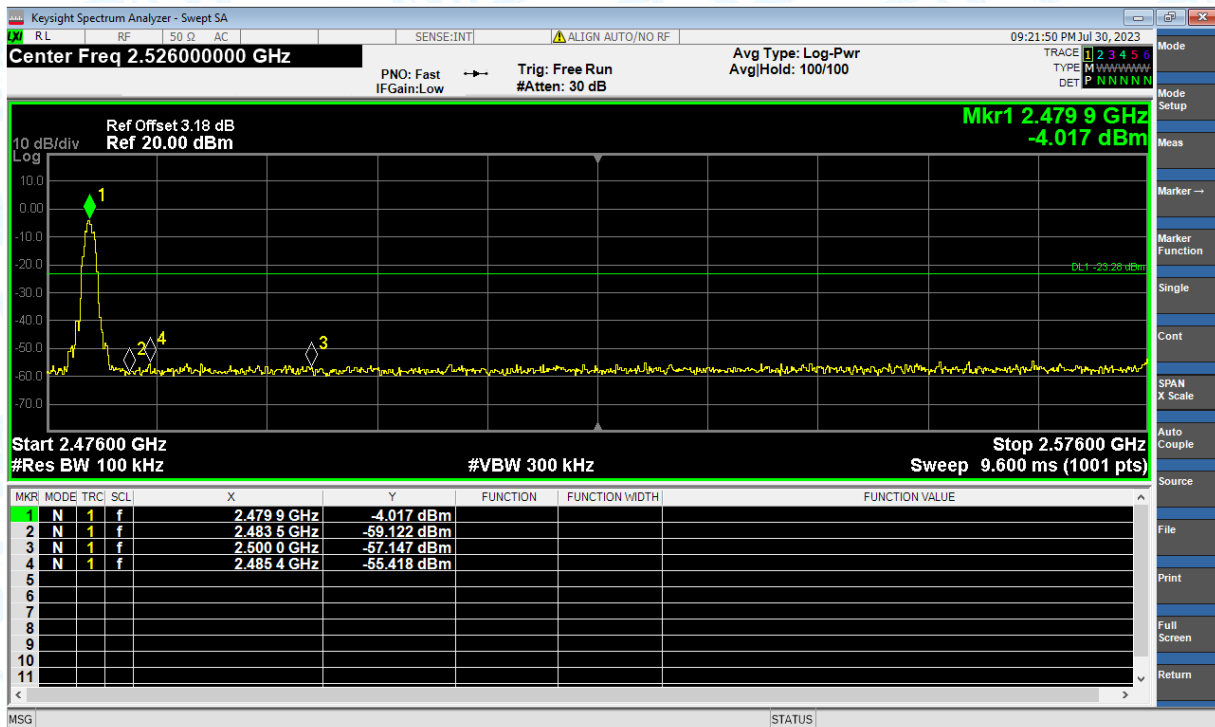
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



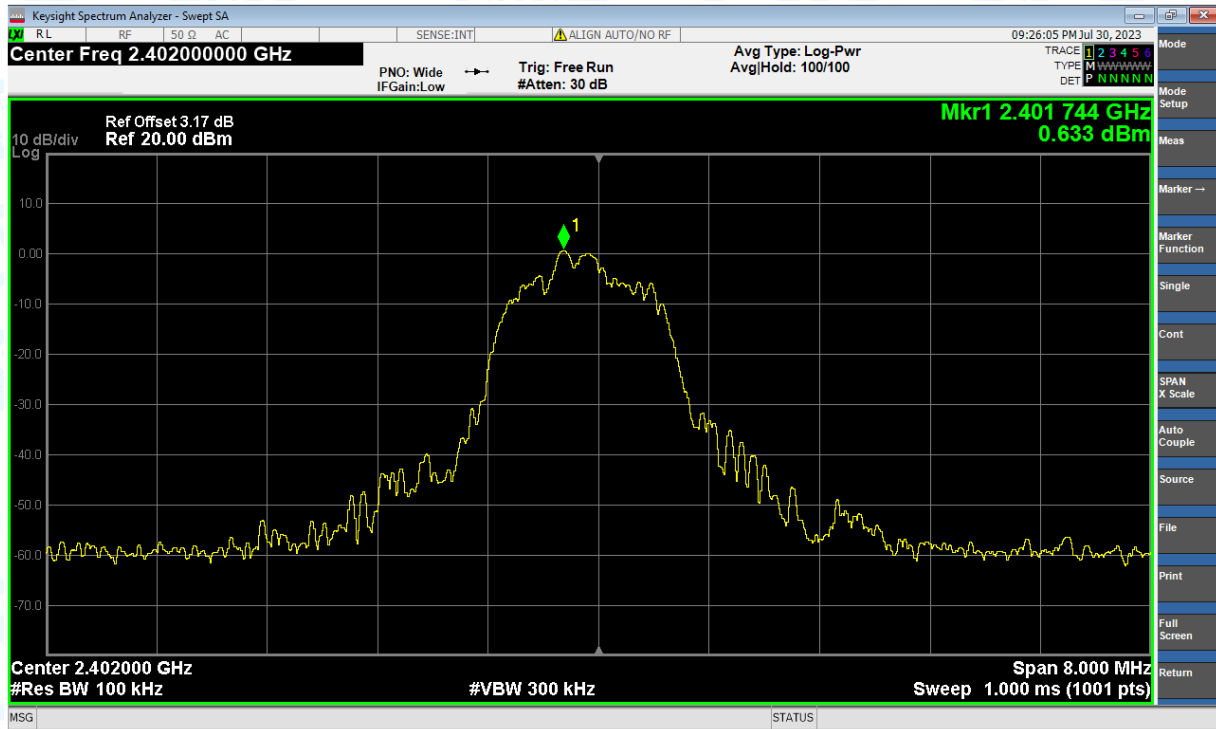
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



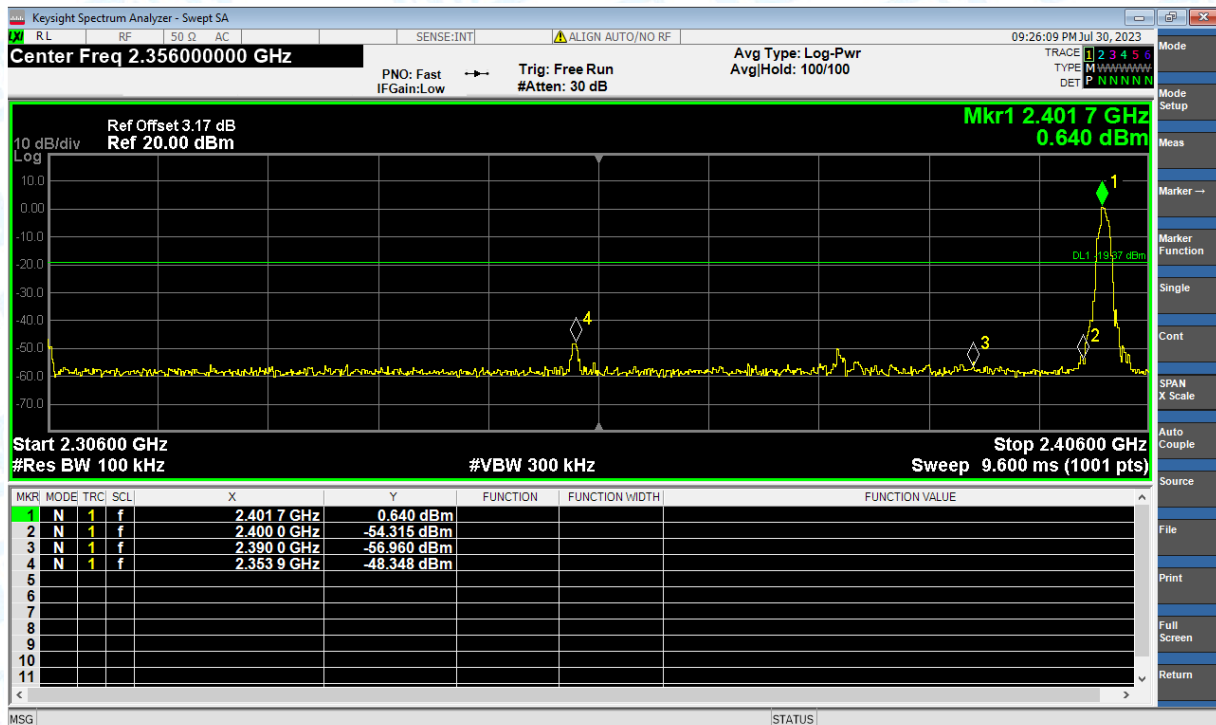
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



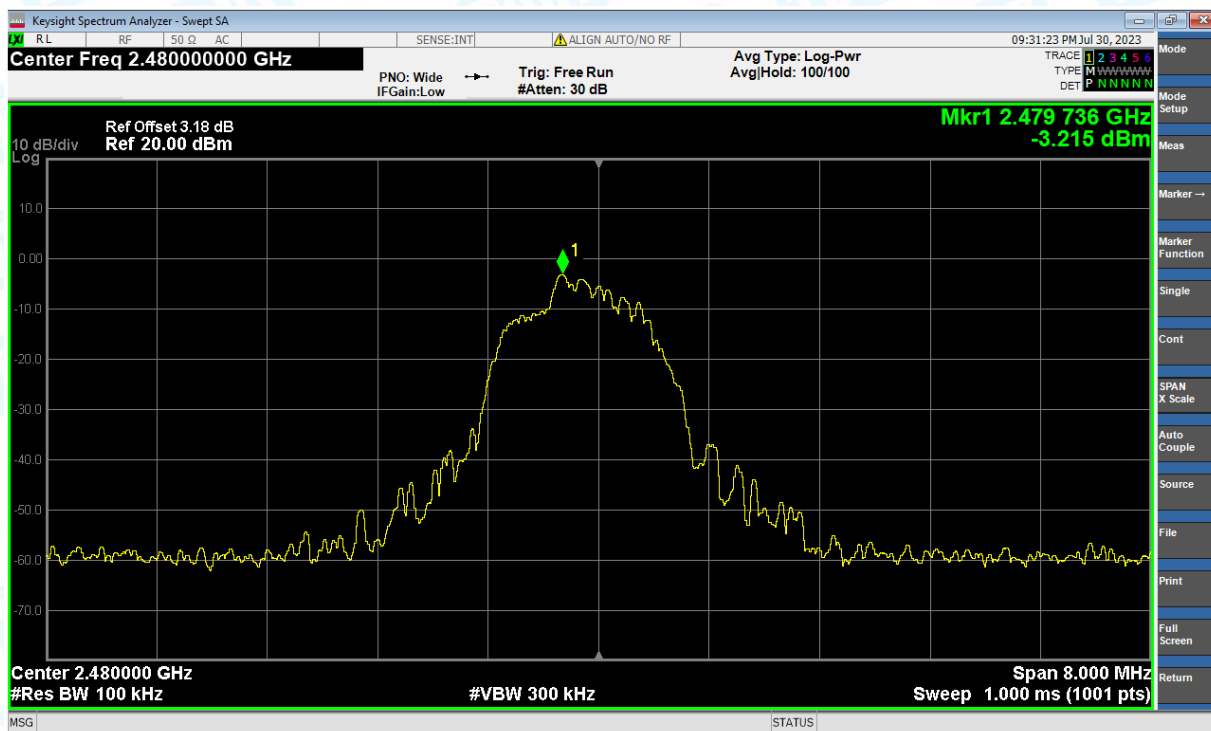
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



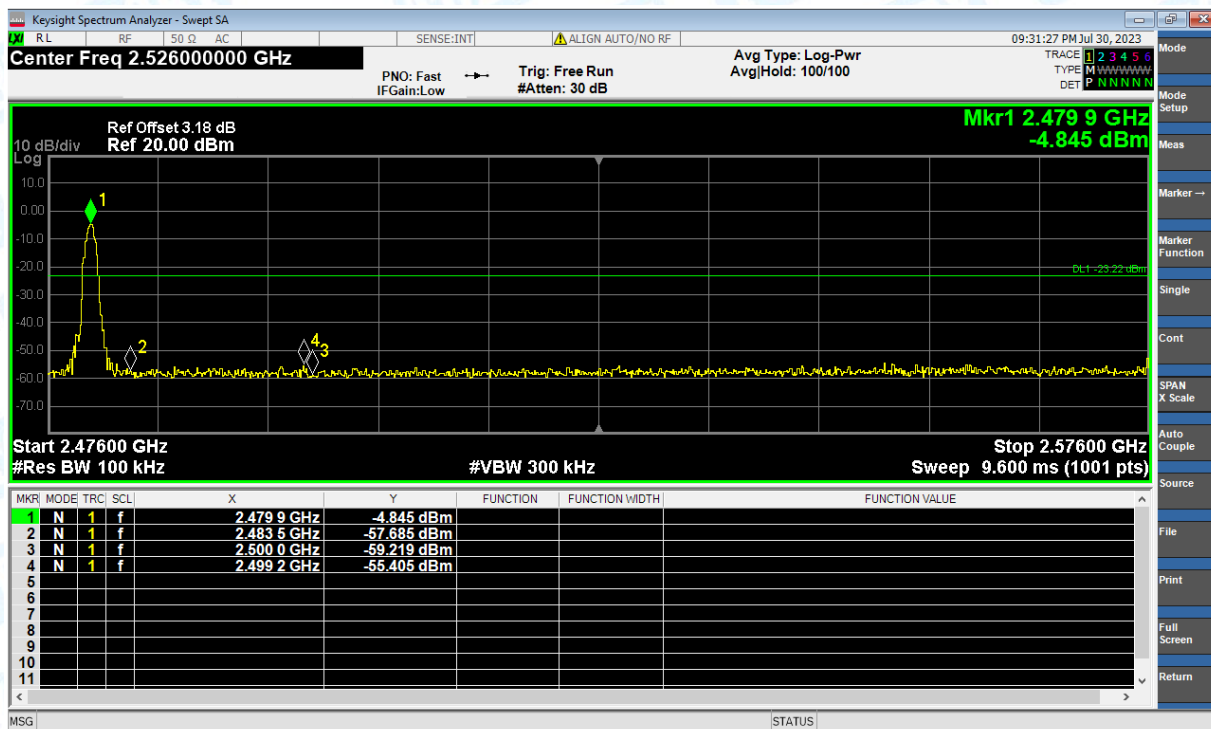
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



6. Band Edge(Hopping)

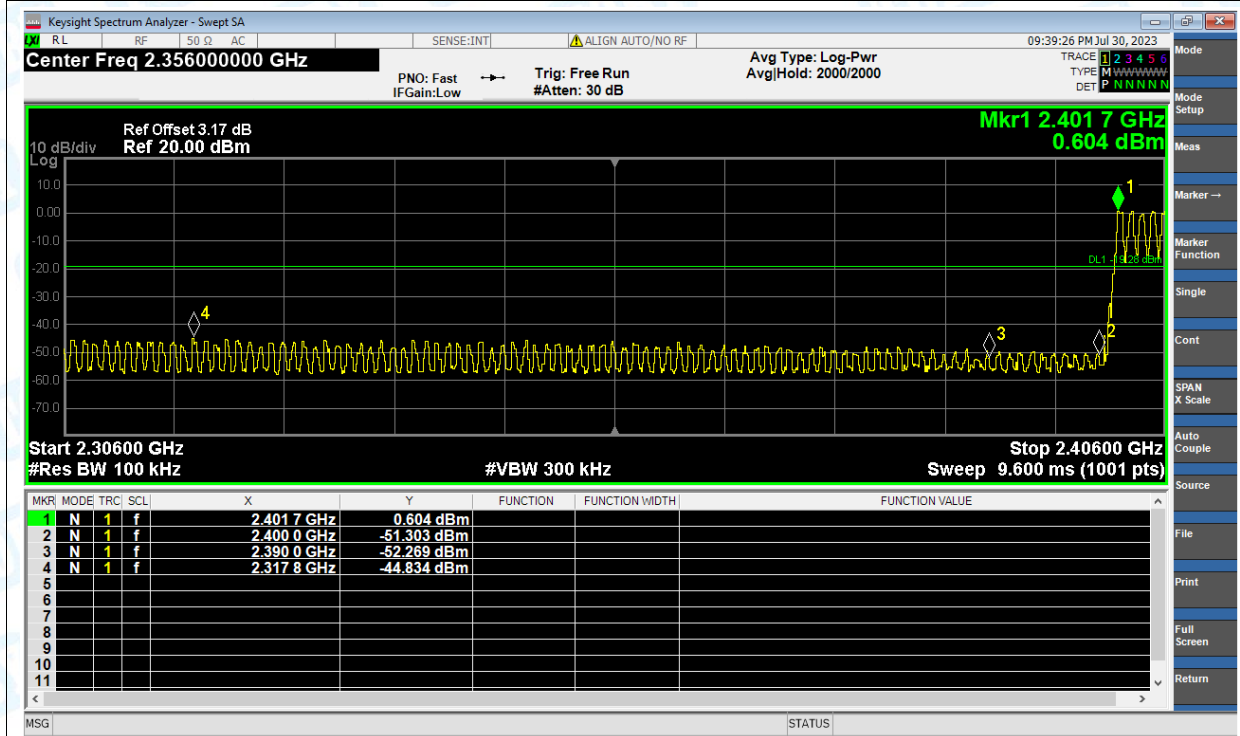
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-45.55	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-45.75	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-45.65	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-45.42	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-45.49	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-44.91	-20	Pass

Test Graphs

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



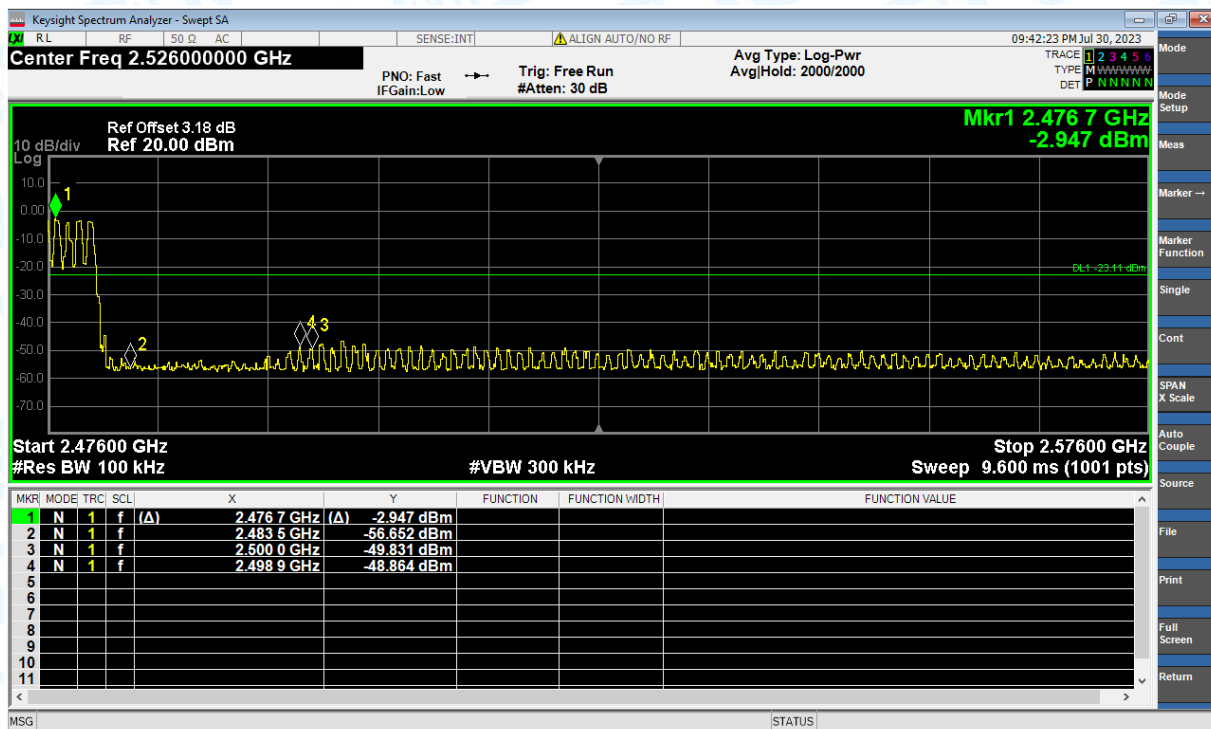
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



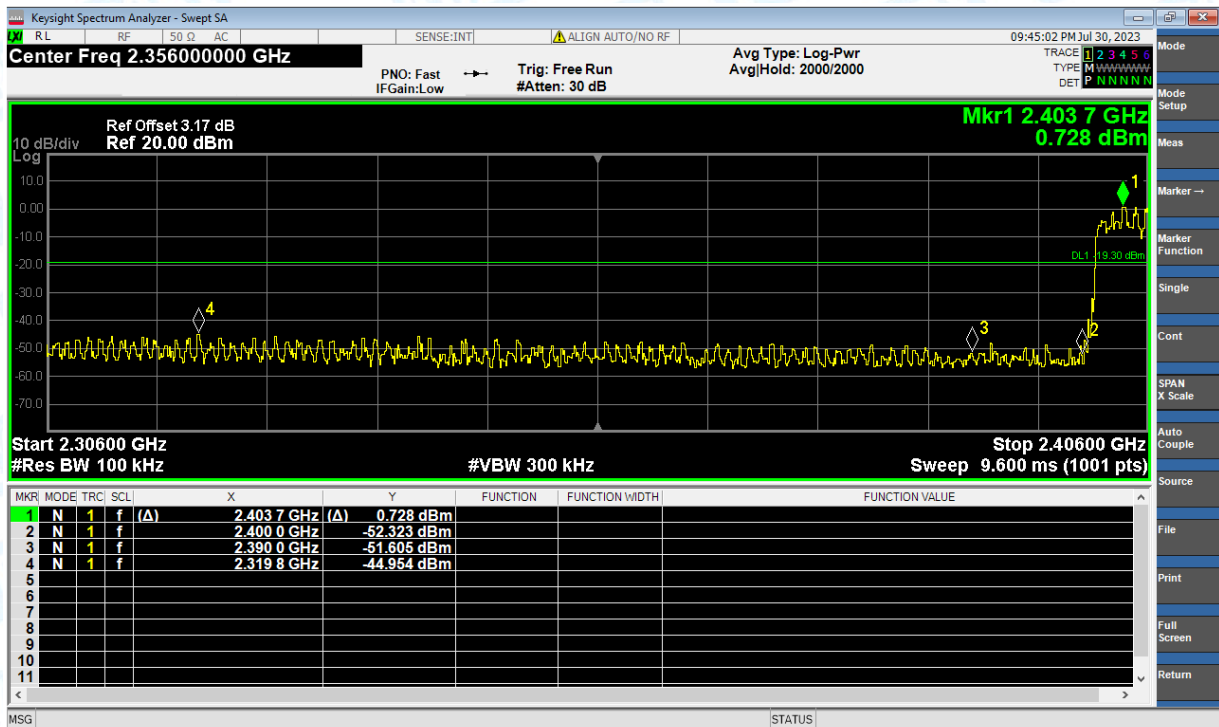
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



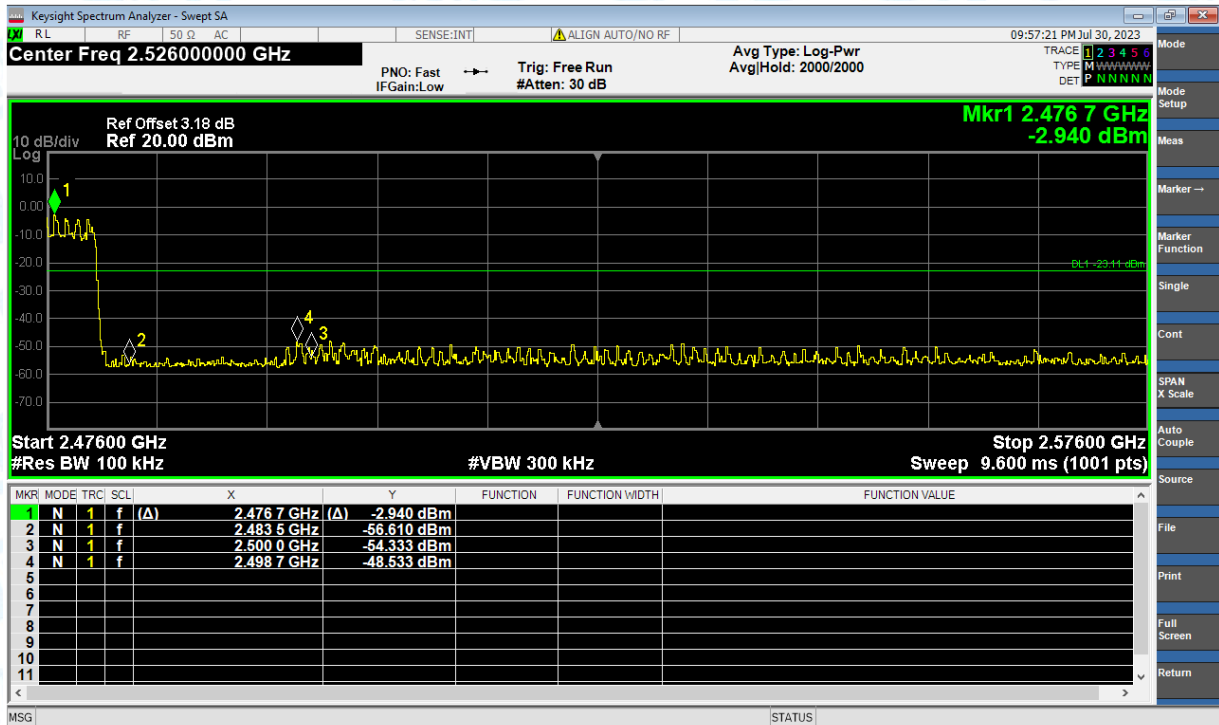
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



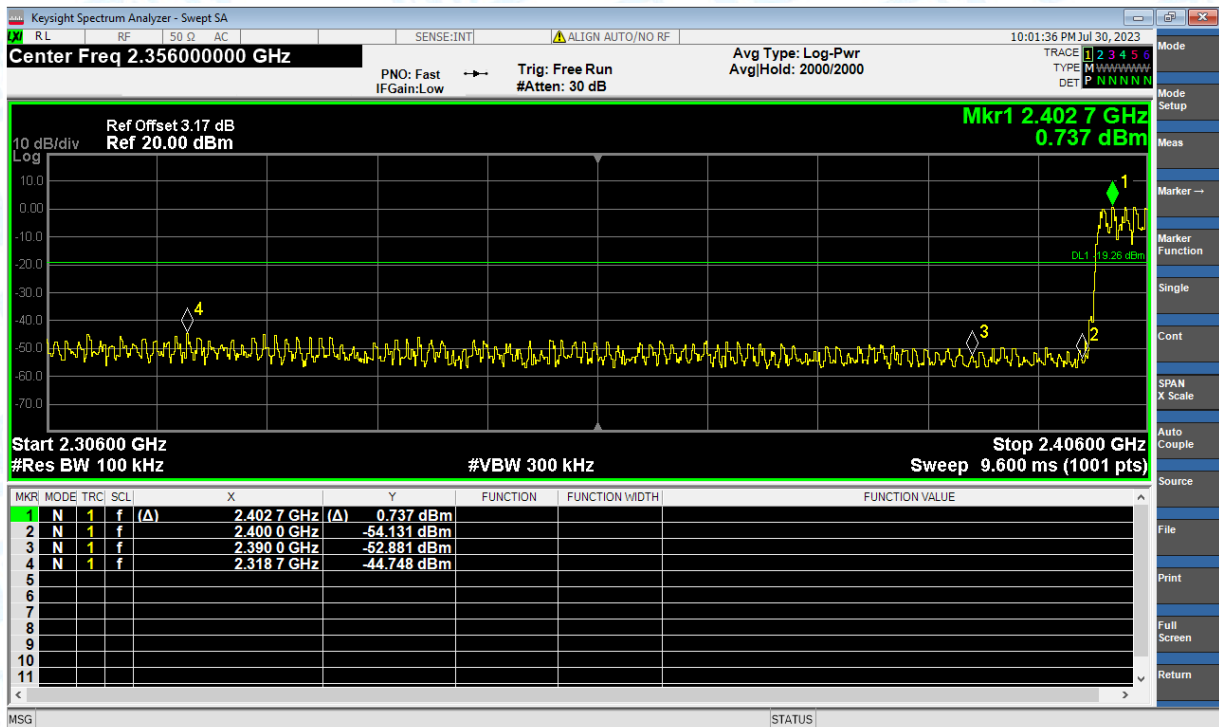
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



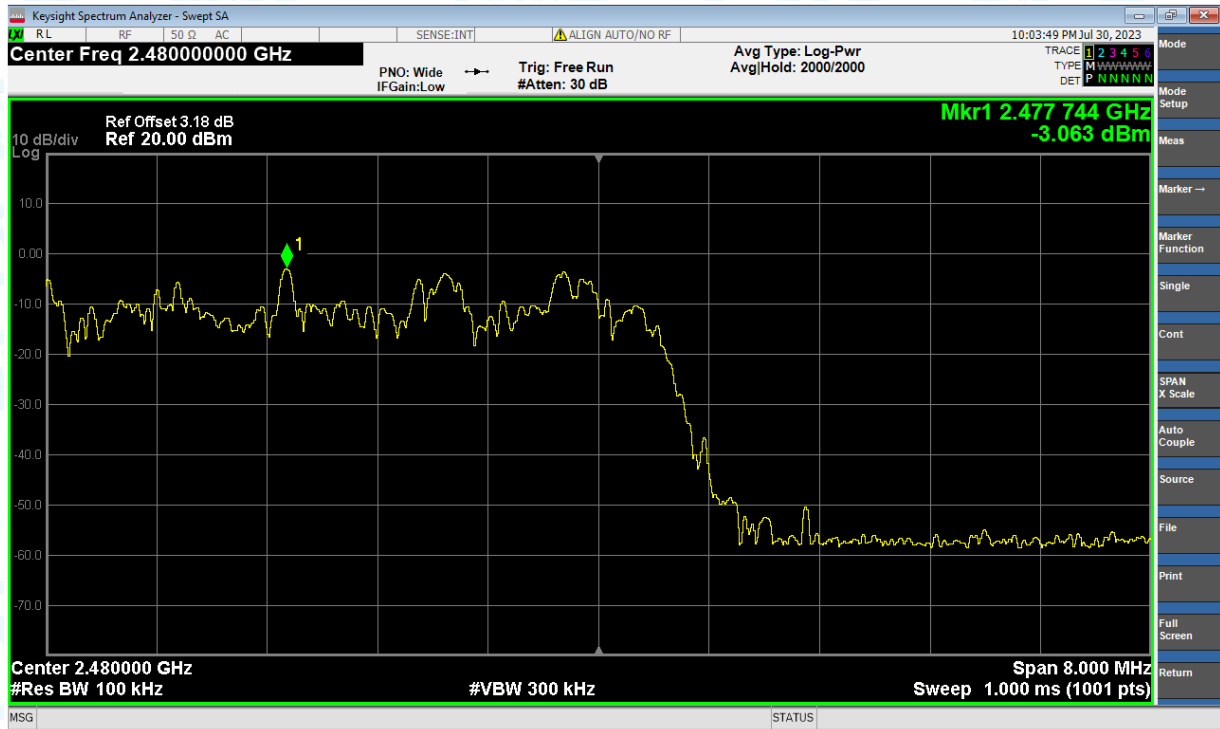
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



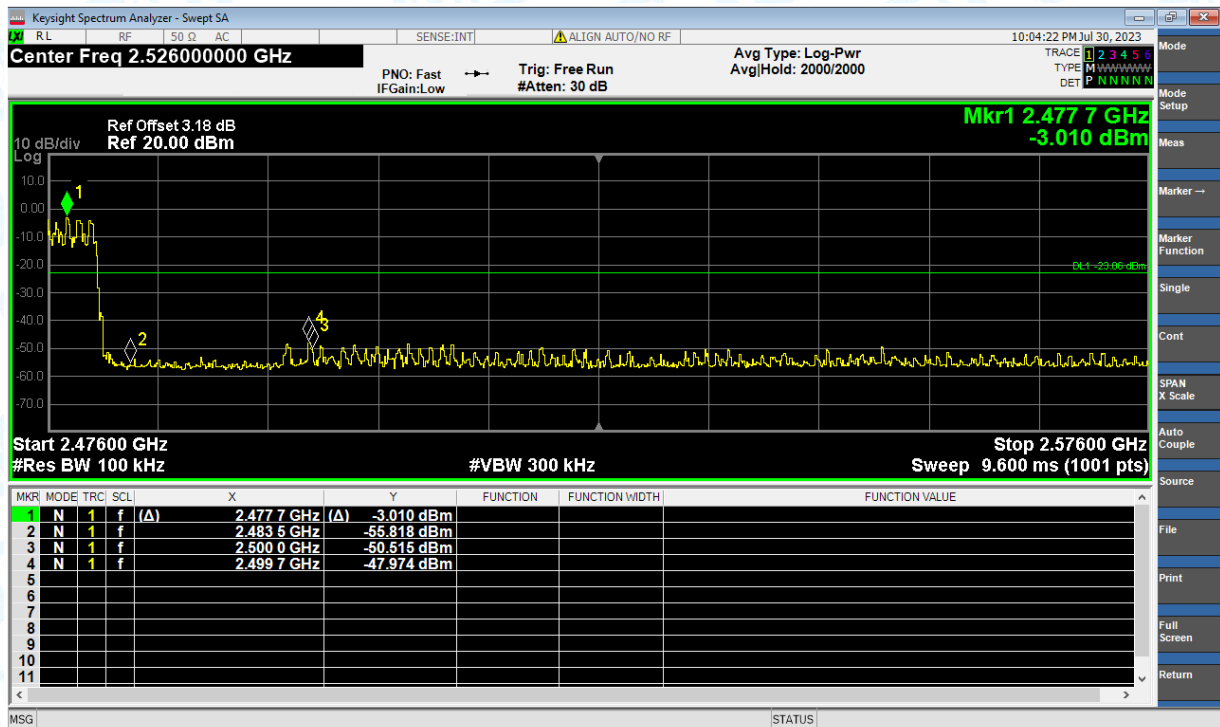
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

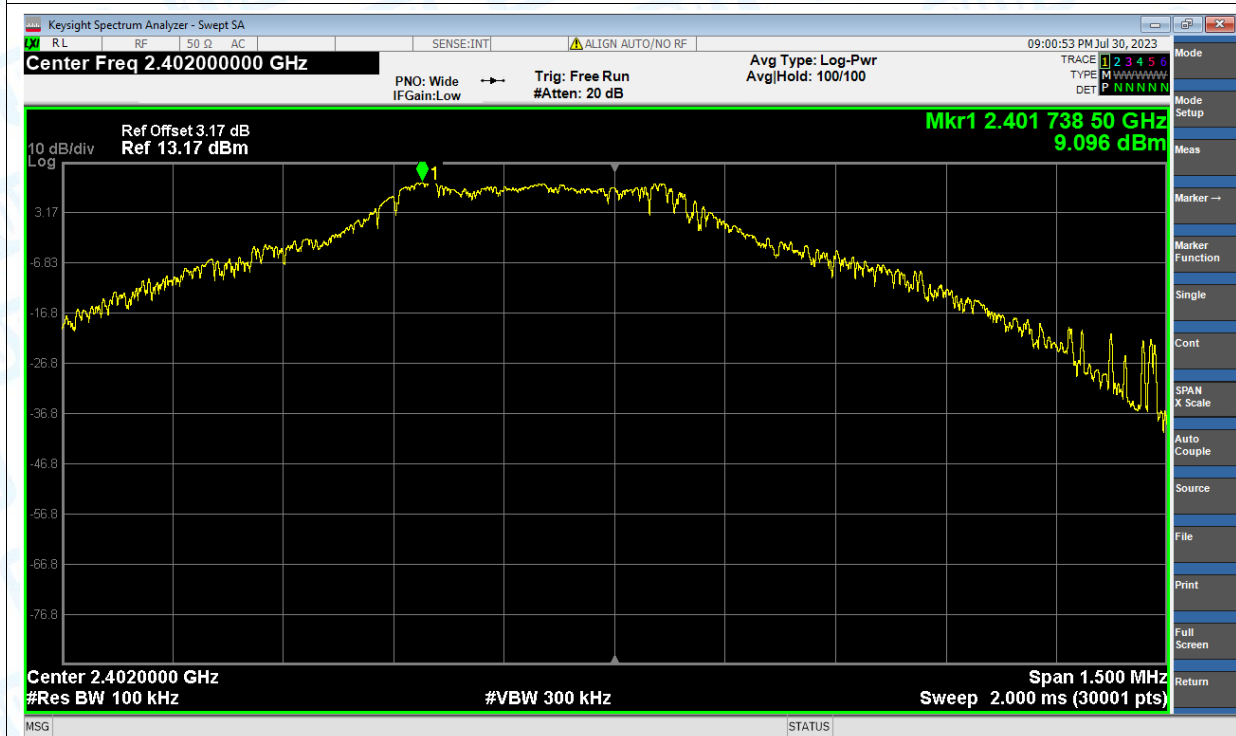


7. Conducted RF Spurious Emission

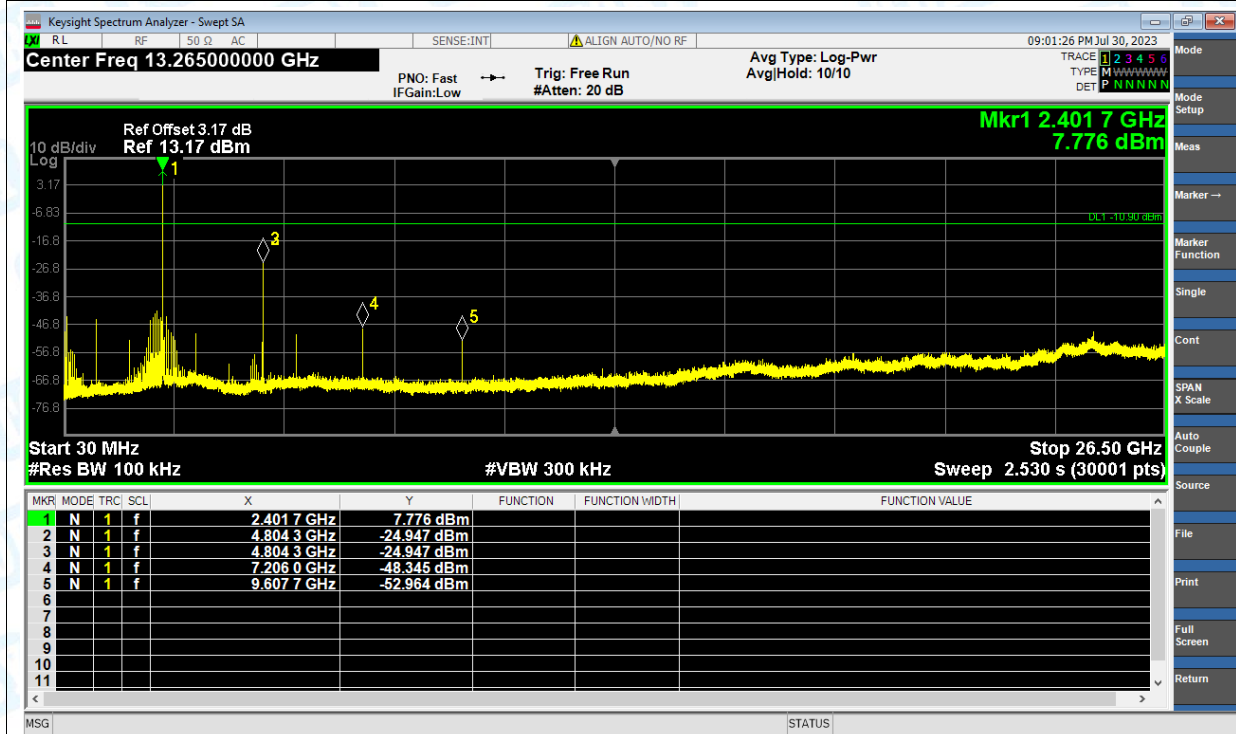
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-34.05	-20	Pass
NVNT	1-DH1	2441	Ant1	-41.66	-20	Pass
NVNT	1-DH1	2480	Ant1	-37.6	-20	Pass
NVNT	2-DH1	2402	Ant1	-39.02	-20	Pass
NVNT	2-DH1	2441	Ant1	-47.29	-20	Pass
NVNT	2-DH1	2480	Ant1	-37.42	-20	Pass
NVNT	3-DH1	2402	Ant1	-43.24	-20	Pass
NVNT	3-DH1	2441	Ant1	-43.39	-20	Pass
NVNT	3-DH1	2480	Ant1	-40.06	-20	Pass

Test Graphs

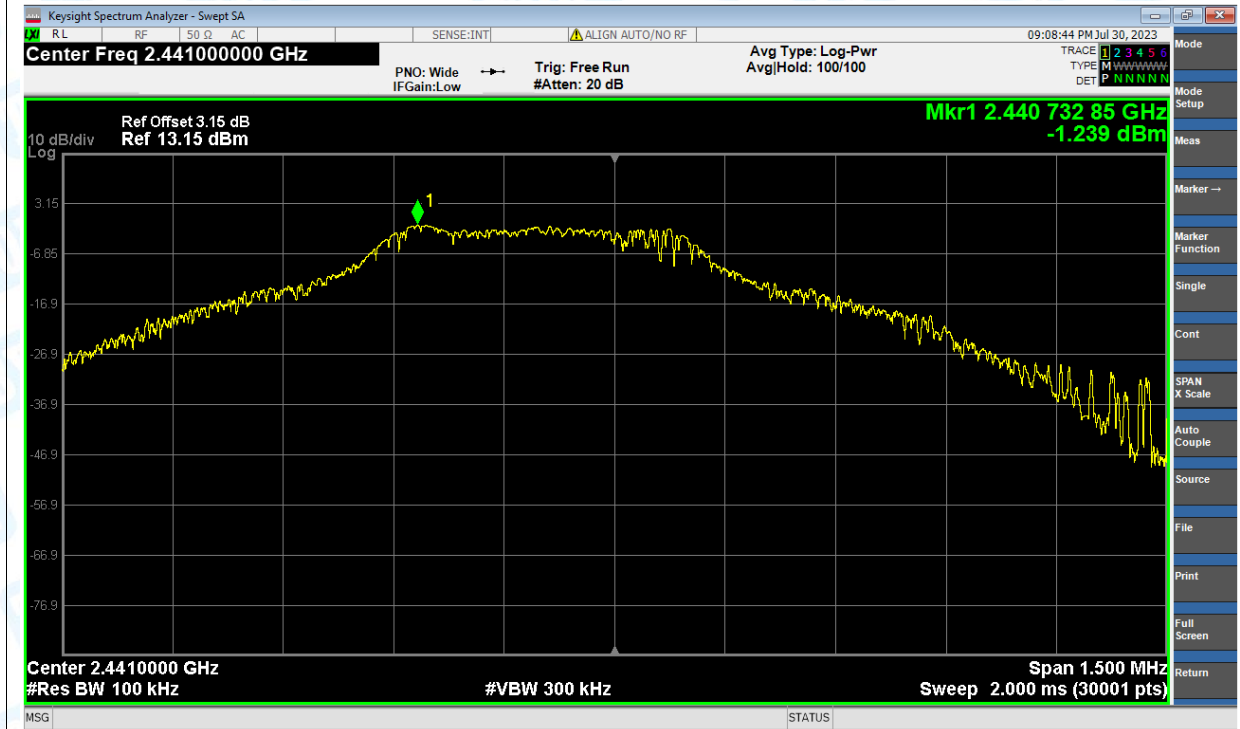
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



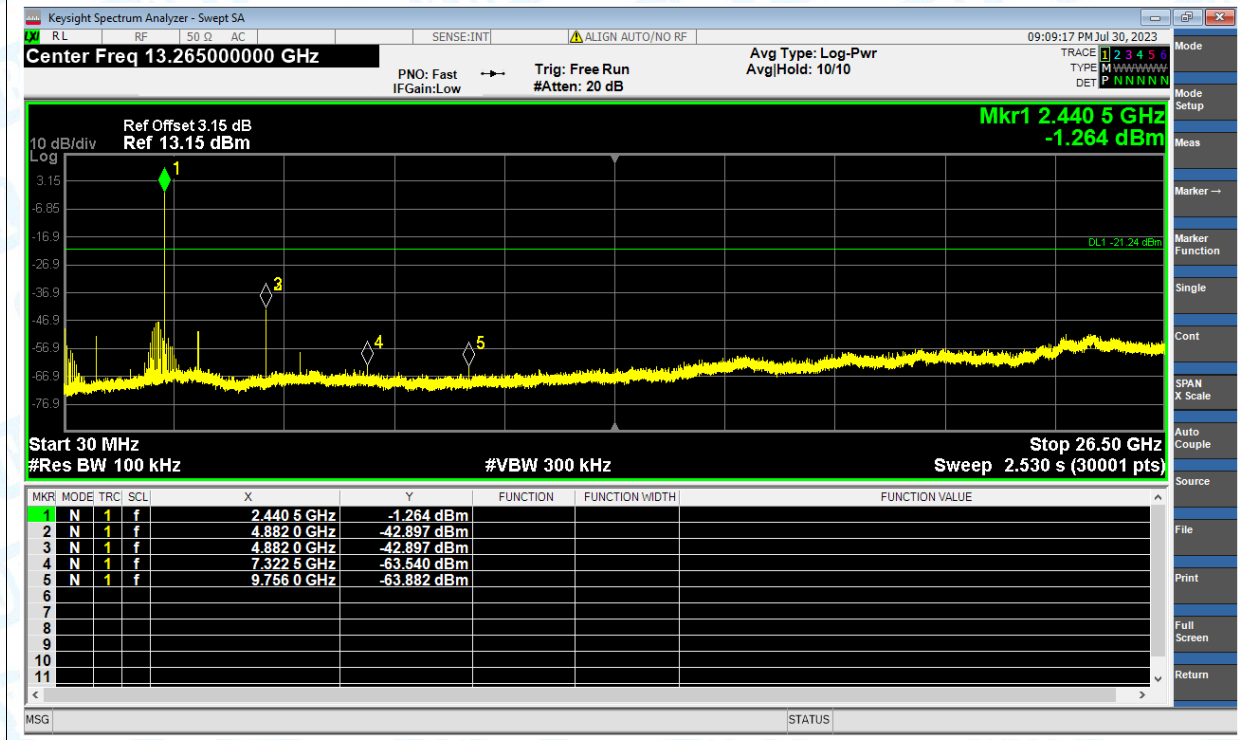
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



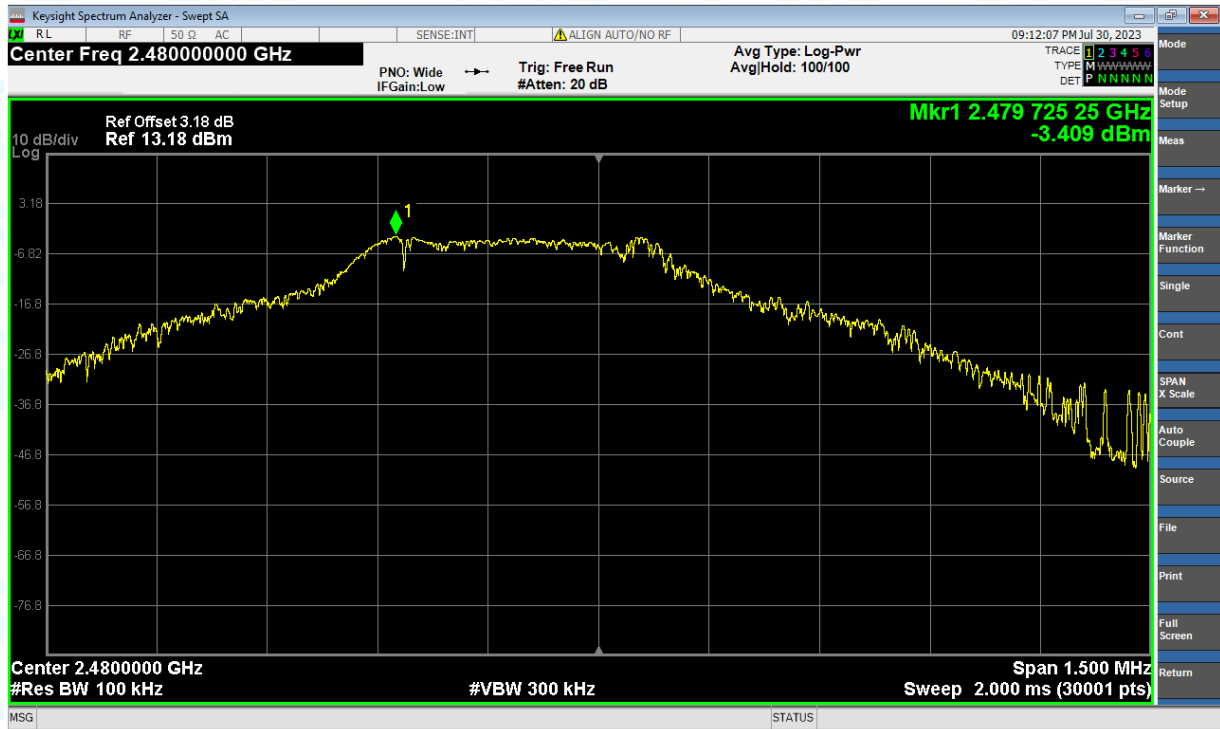
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



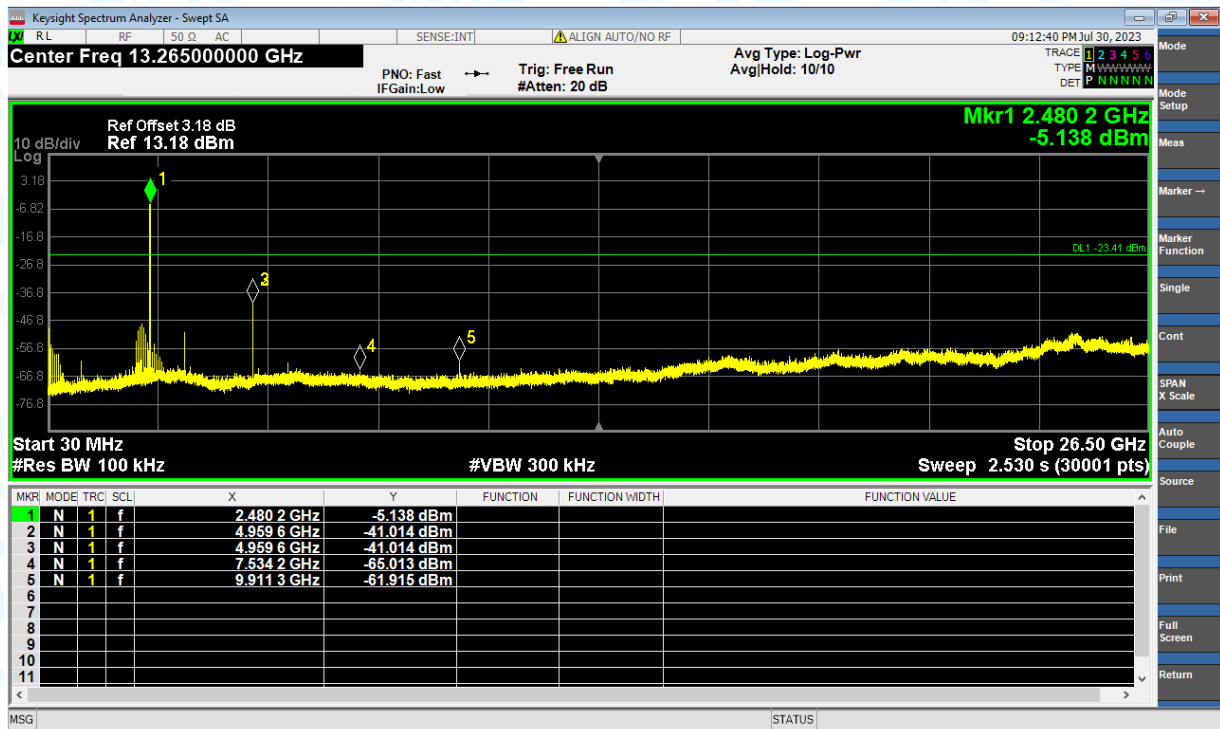
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



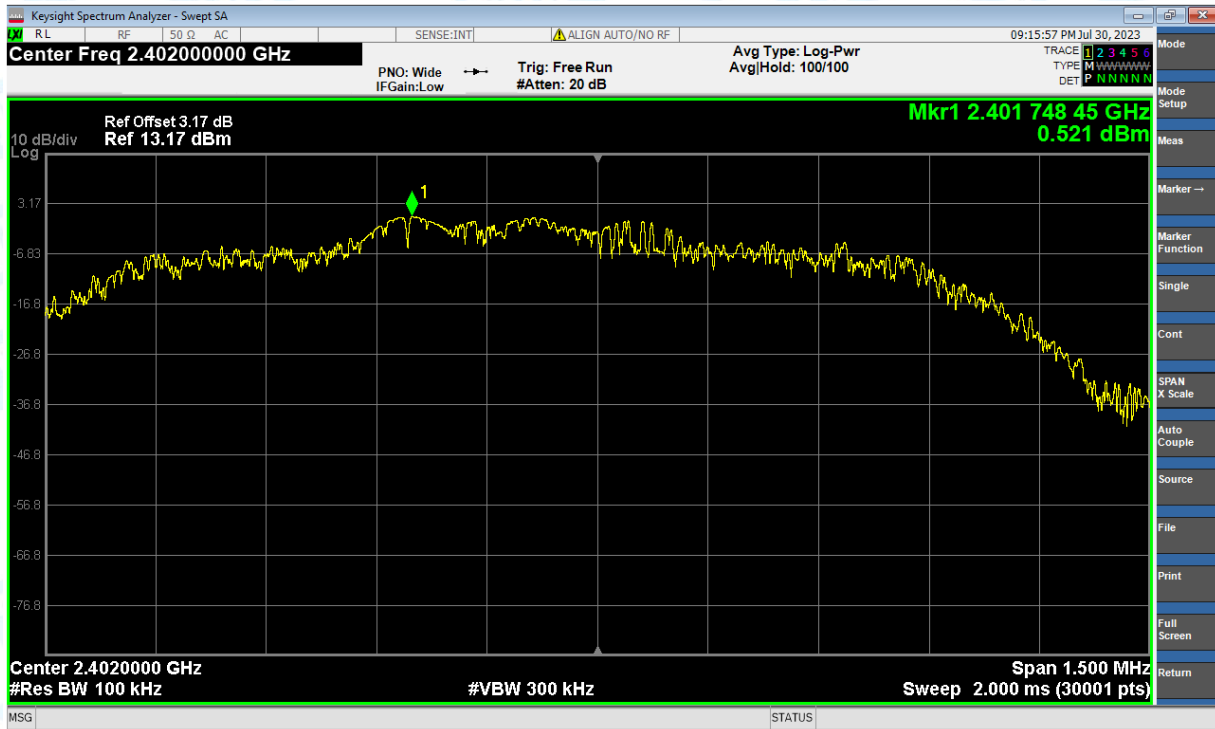
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



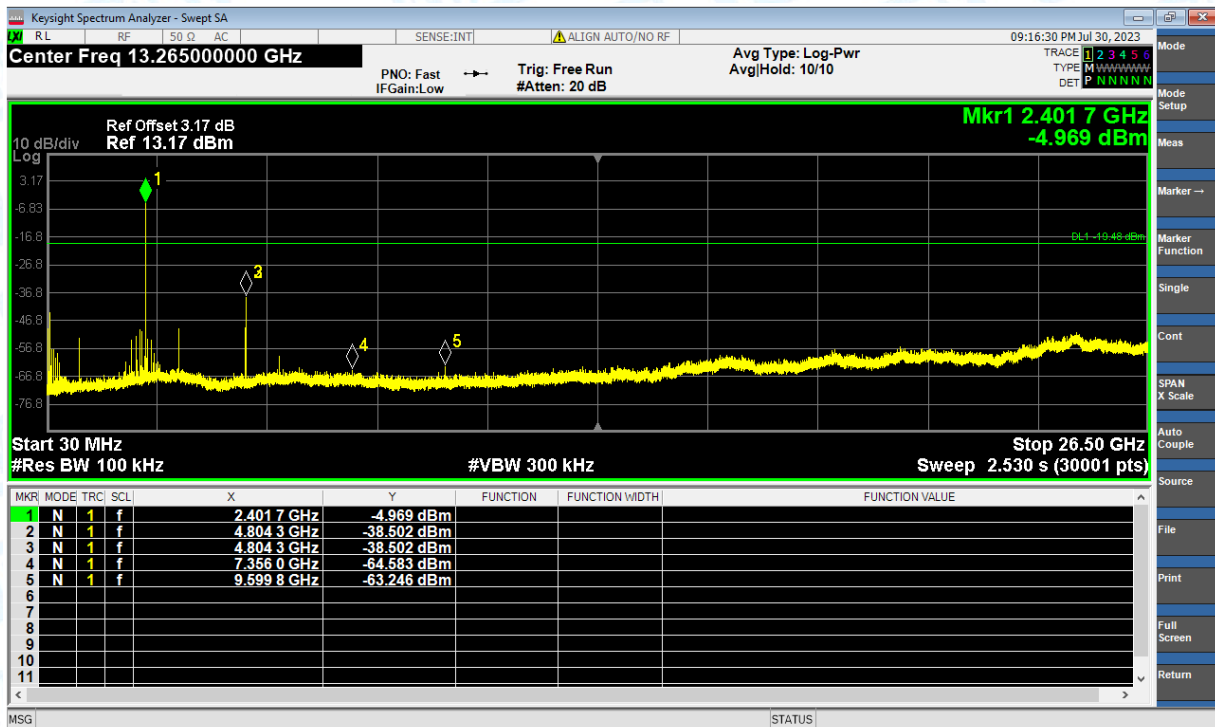
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



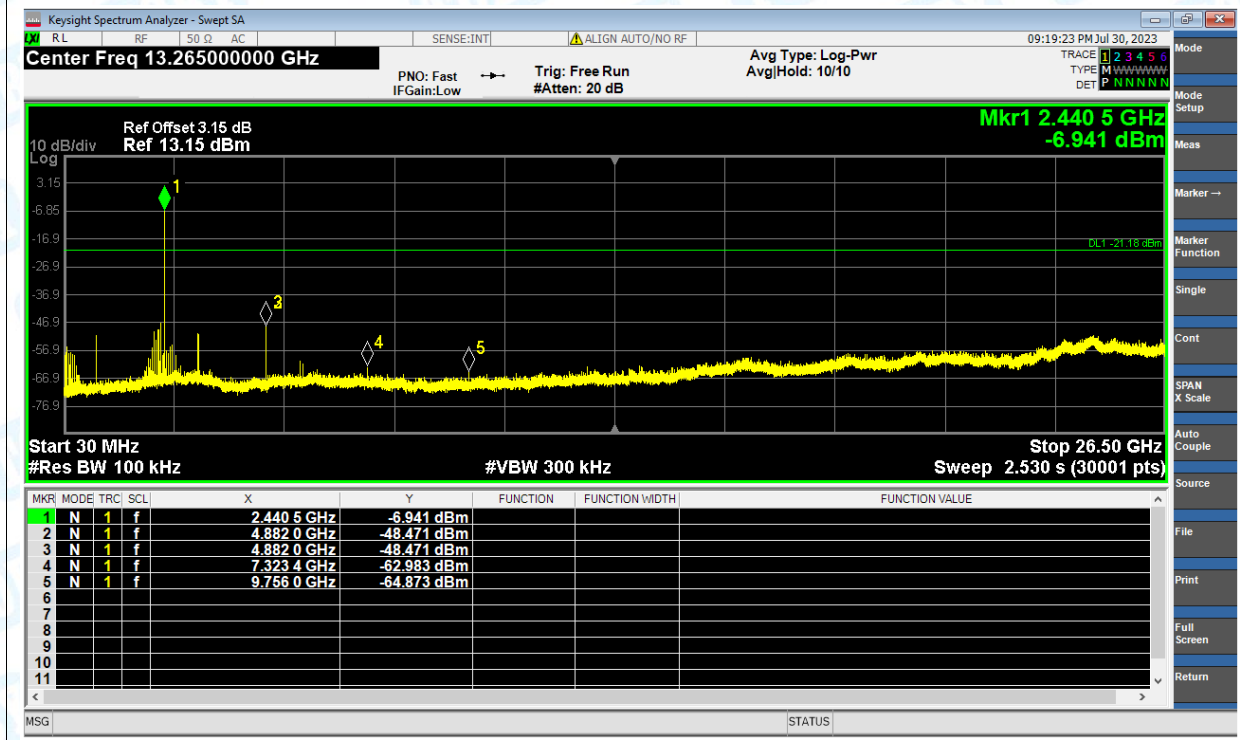
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



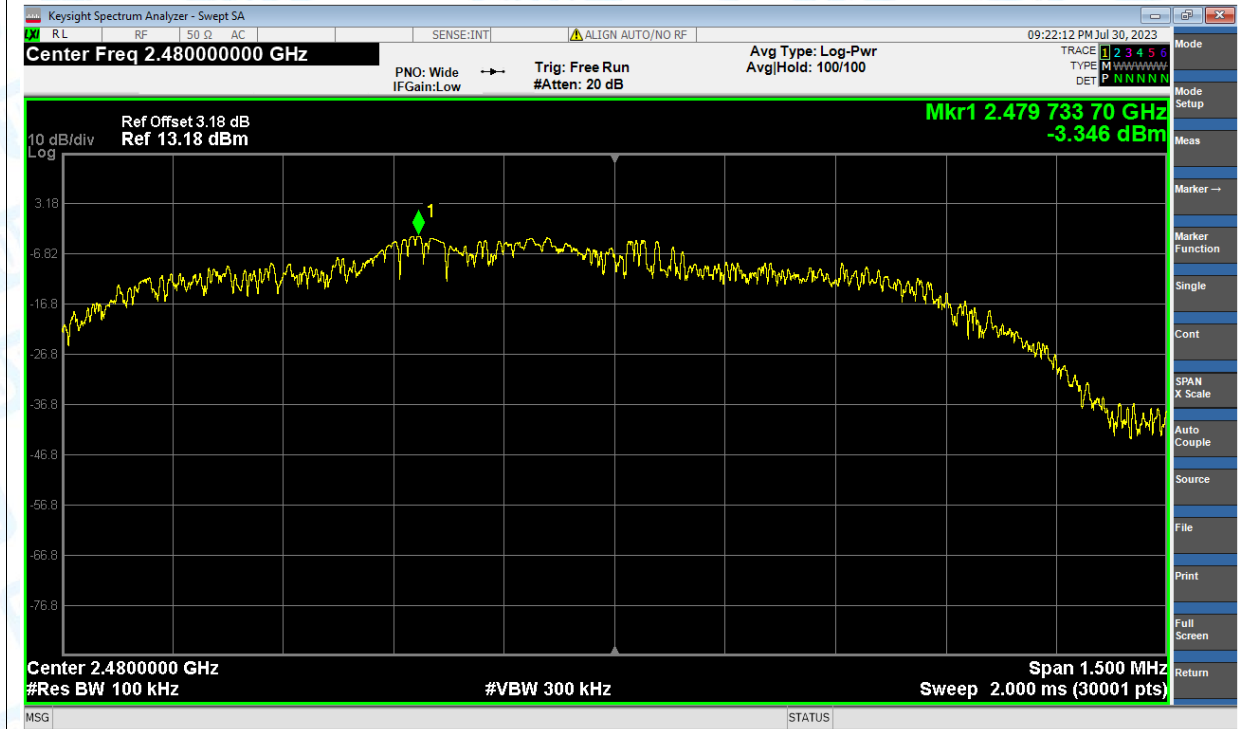
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



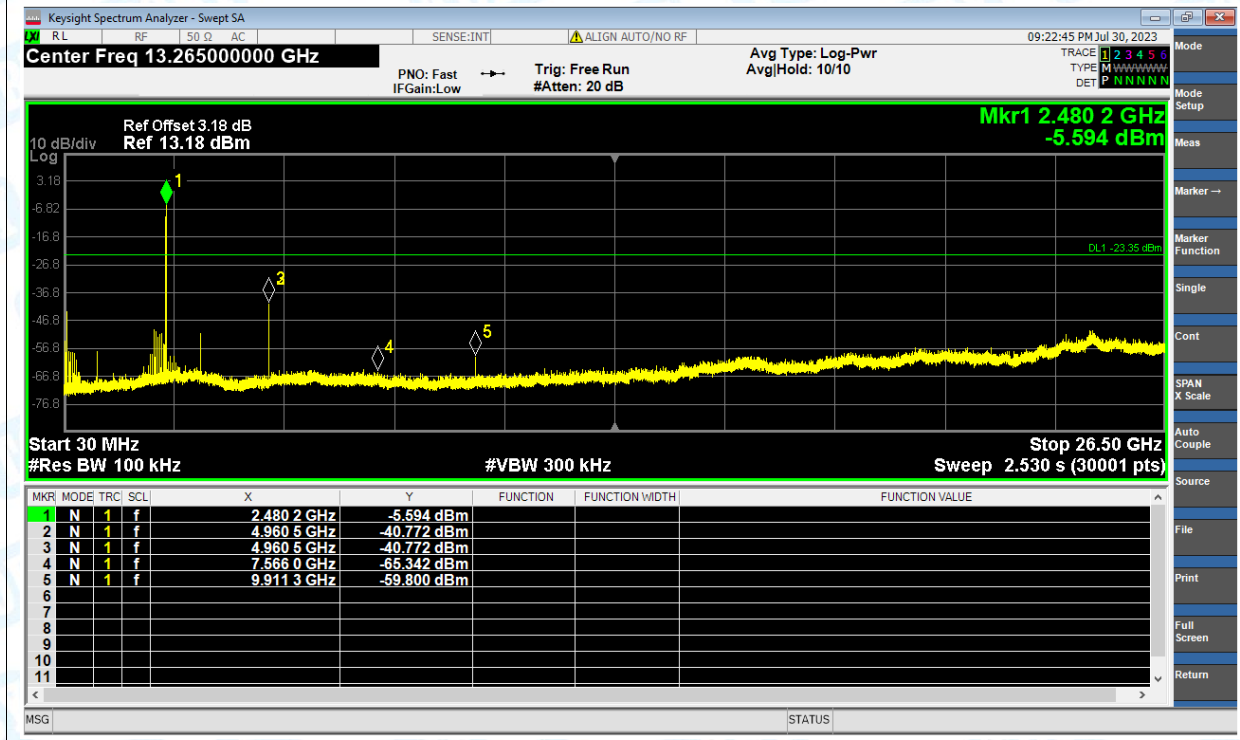
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



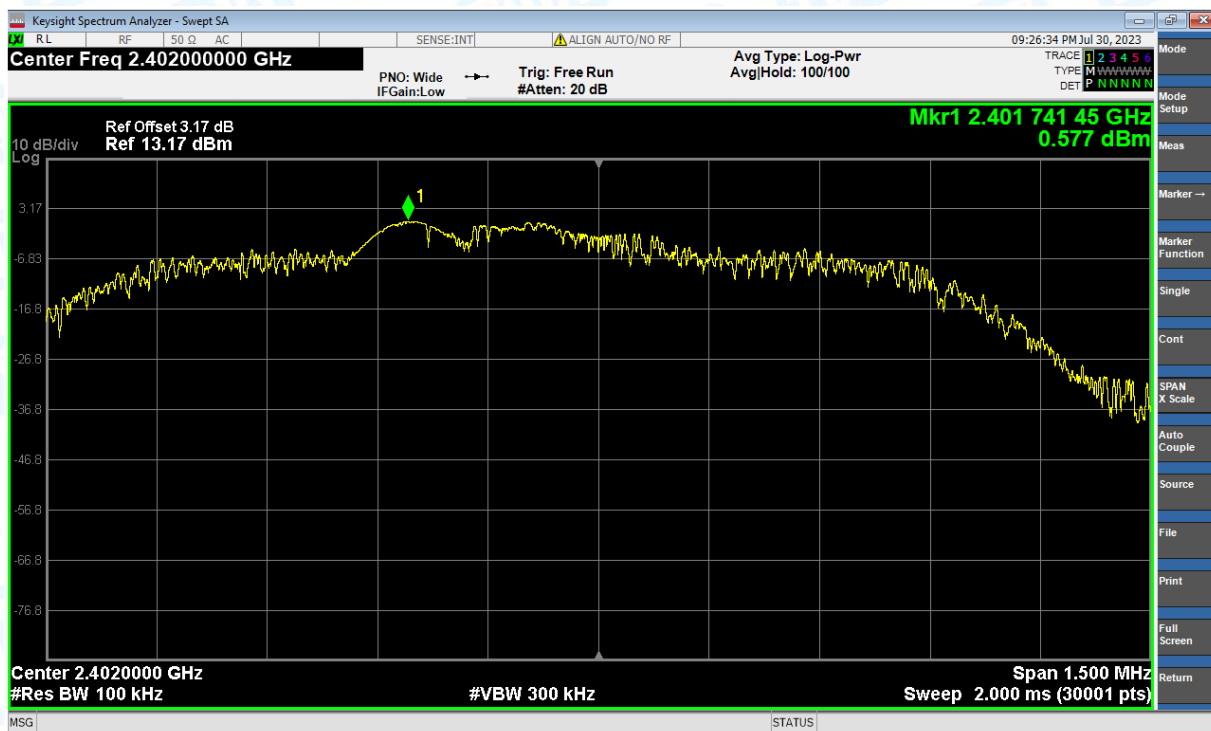
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



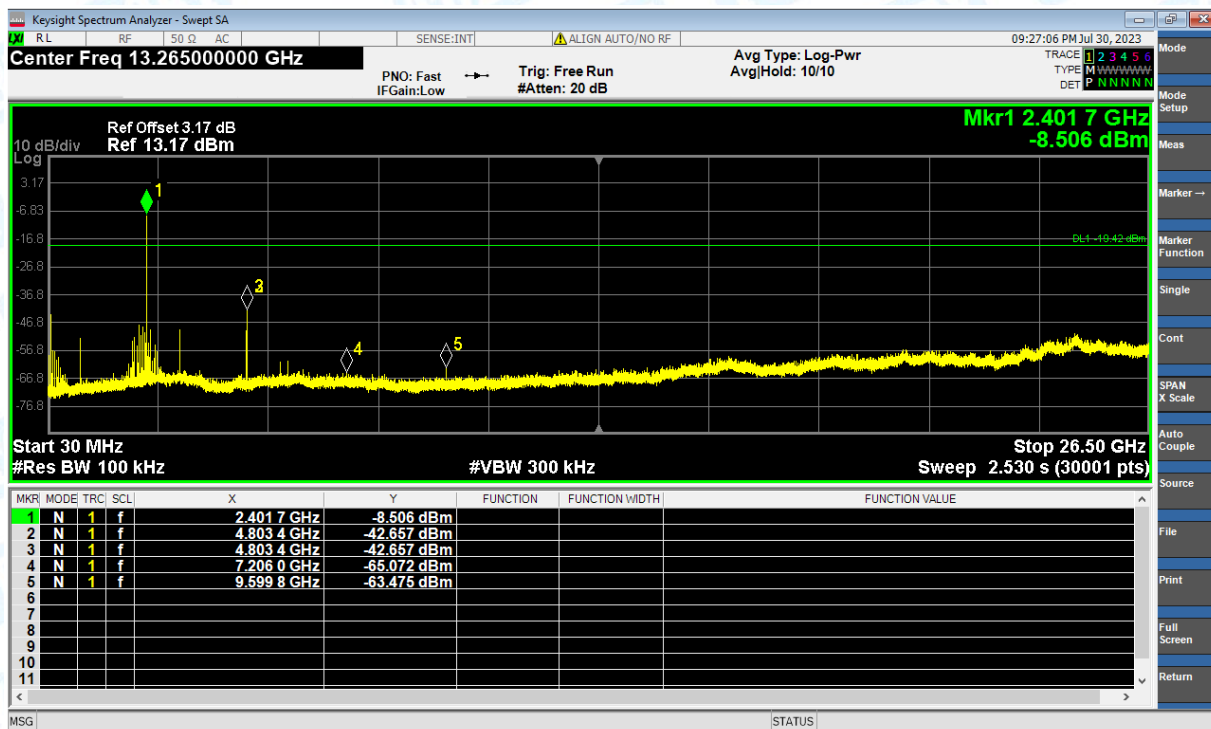
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



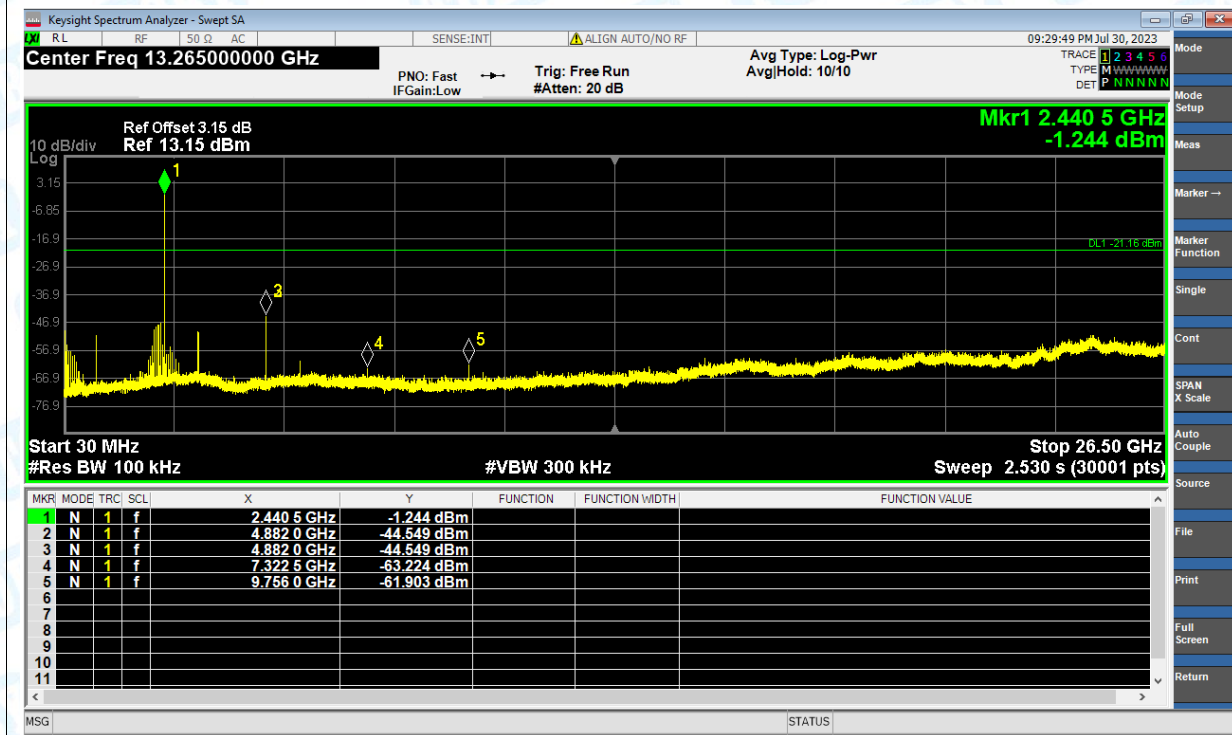
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



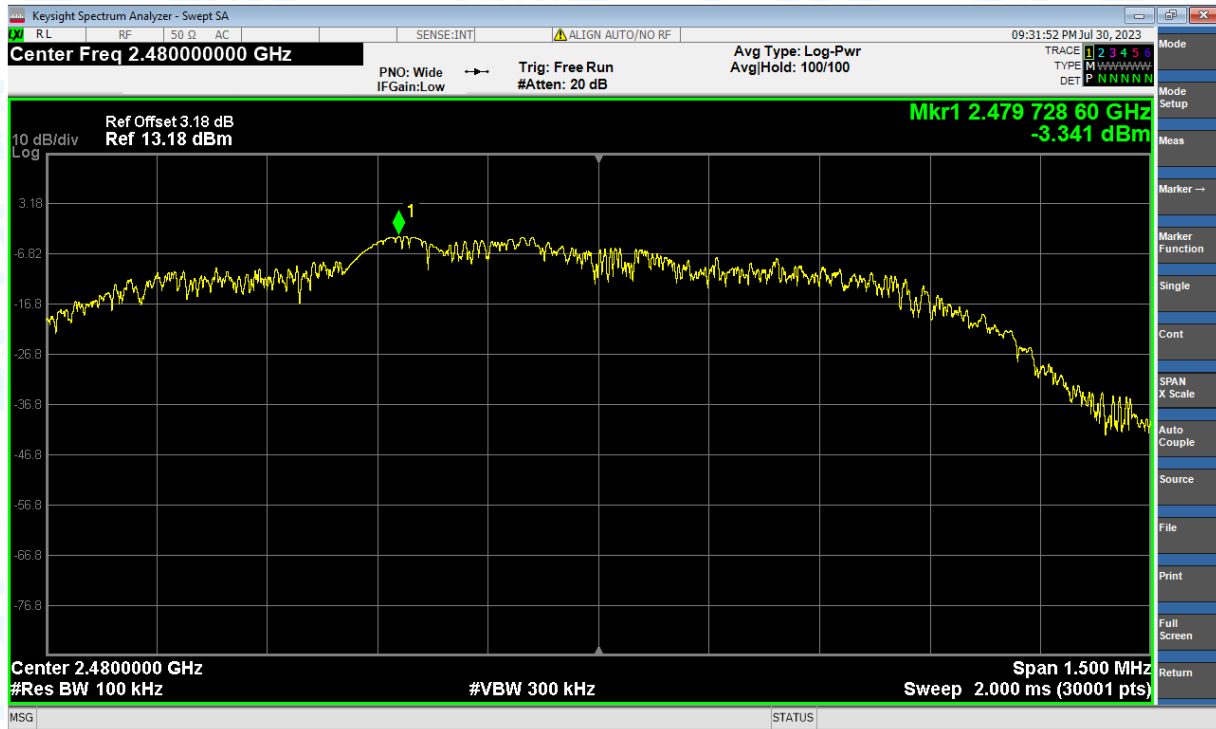
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



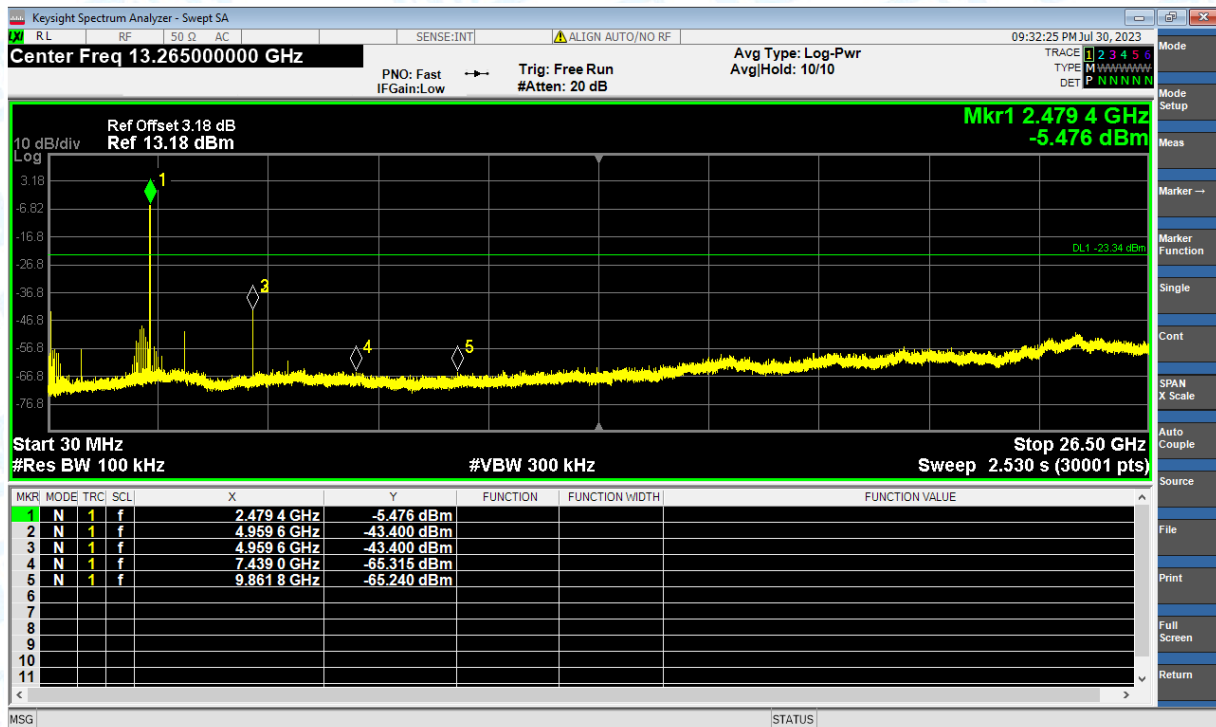
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

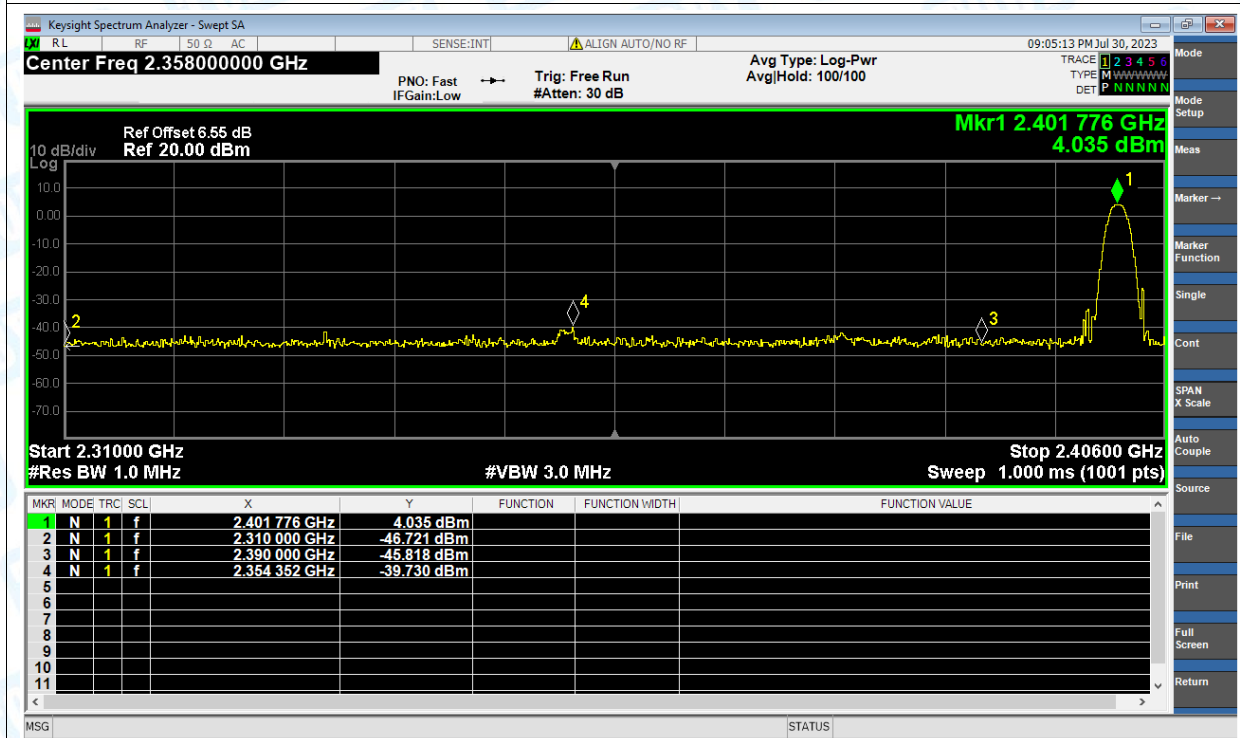


8. Restrict Band

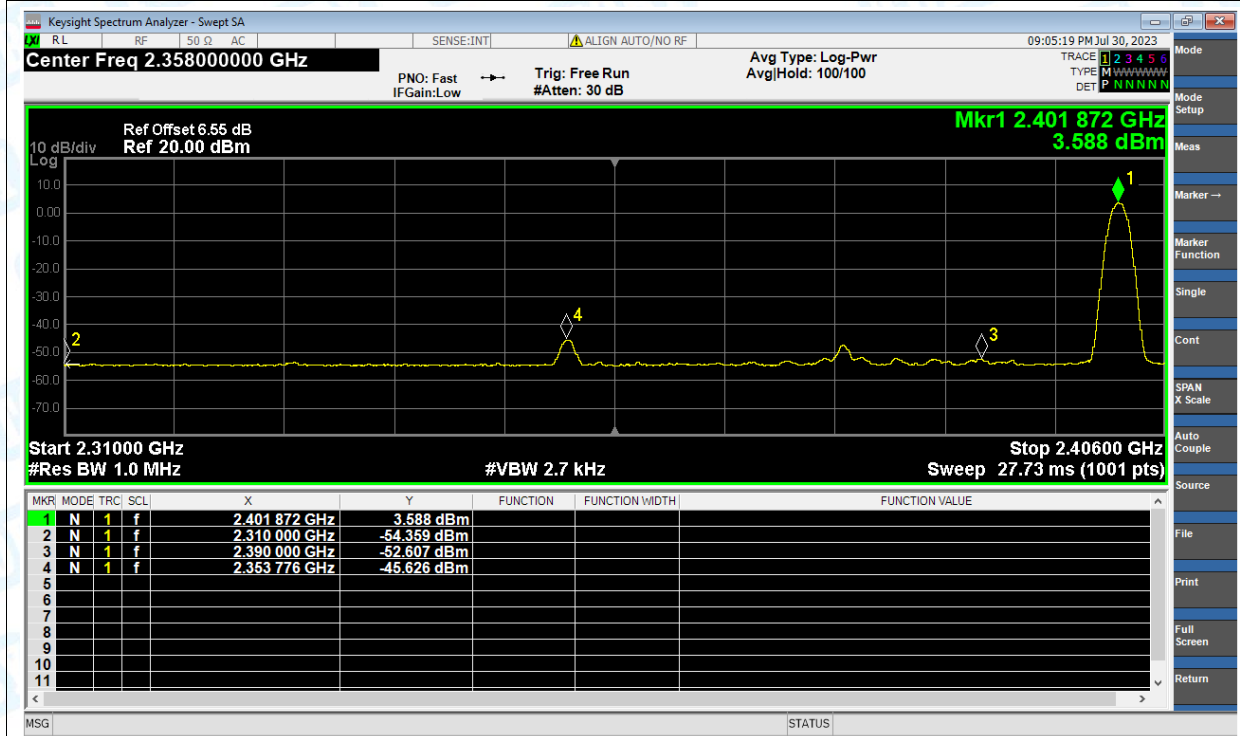
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-46.72	3.38	51.92	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-54.36	3.38	44.28	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2354.352	-39.73	3.38	58.91	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2353.776	-45.63	3.38	53.01	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.27	3.38	52.37	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52.61	3.38	46.03	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.94	3.38	52.7	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-53.67	3.38	44.97	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2494.792	-42.86	3.38	55.78	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.816	-53.65	3.38	44.99	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-45.67	3.38	52.97	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.38	3.38	44.26	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-44.92	3.38	53.72	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-54.61	3.38	44.03	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2353.776	-40.26	3.38	58.38	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2353.68	-46.18	3.38	52.46	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-45.45	3.38	53.19	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-54.19	3.38	44.45	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-44.93	3.38	53.71	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.13	3.38	44.51	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2486.68	-42.06	3.38	56.58	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2489.488	-53.87	3.38	44.77	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-45.93	3.38	52.71	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-54.34	3.38	44.3	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-45.24	3.38	53.4	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-54.67	3.38	43.97	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2353.296	-39.71	3.38	58.93	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2353.872	-45.74	3.38	52.9	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-44.85	3.38	53.79	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-54.4	3.38	44.24	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-45.52	3.38	53.12	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.59	3.38	44.05	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2489.368	-42.46	3.38	56.18	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2499.16	-53.8	3.38	44.84	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-45.57	3.38	53.07	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-54.3	3.38	44.34	Average	54	Pass

Test Graphs

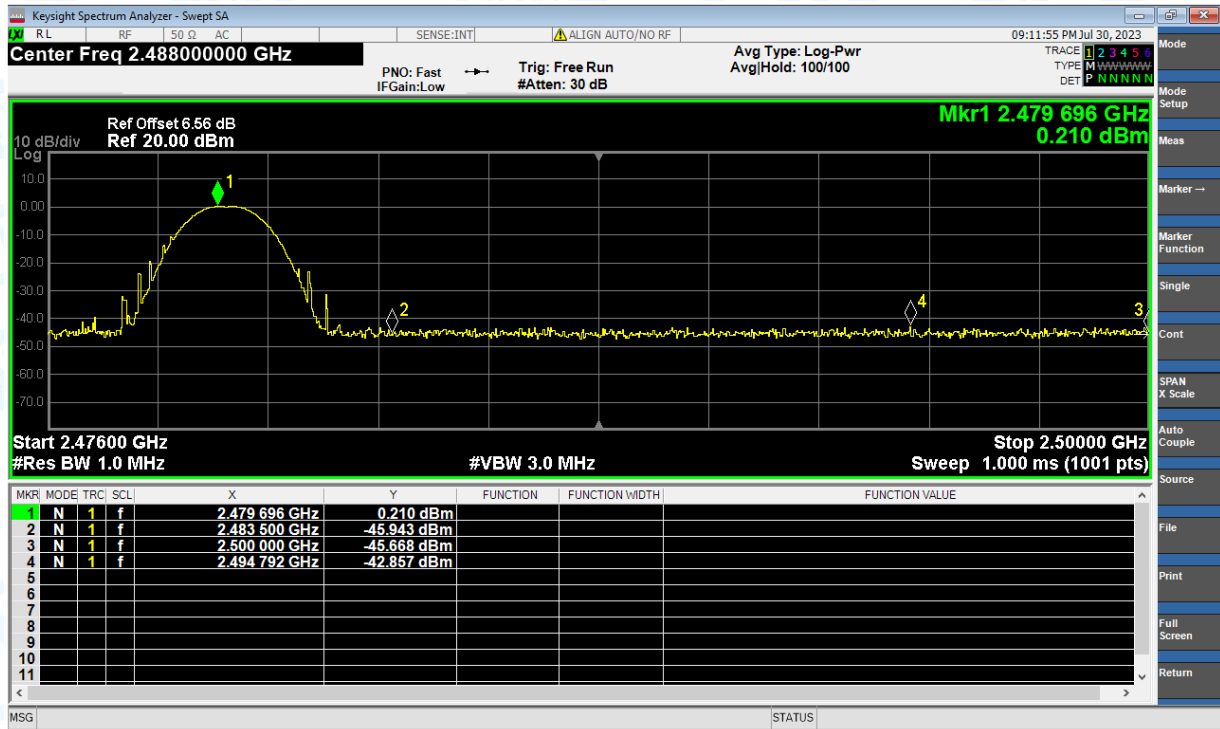
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



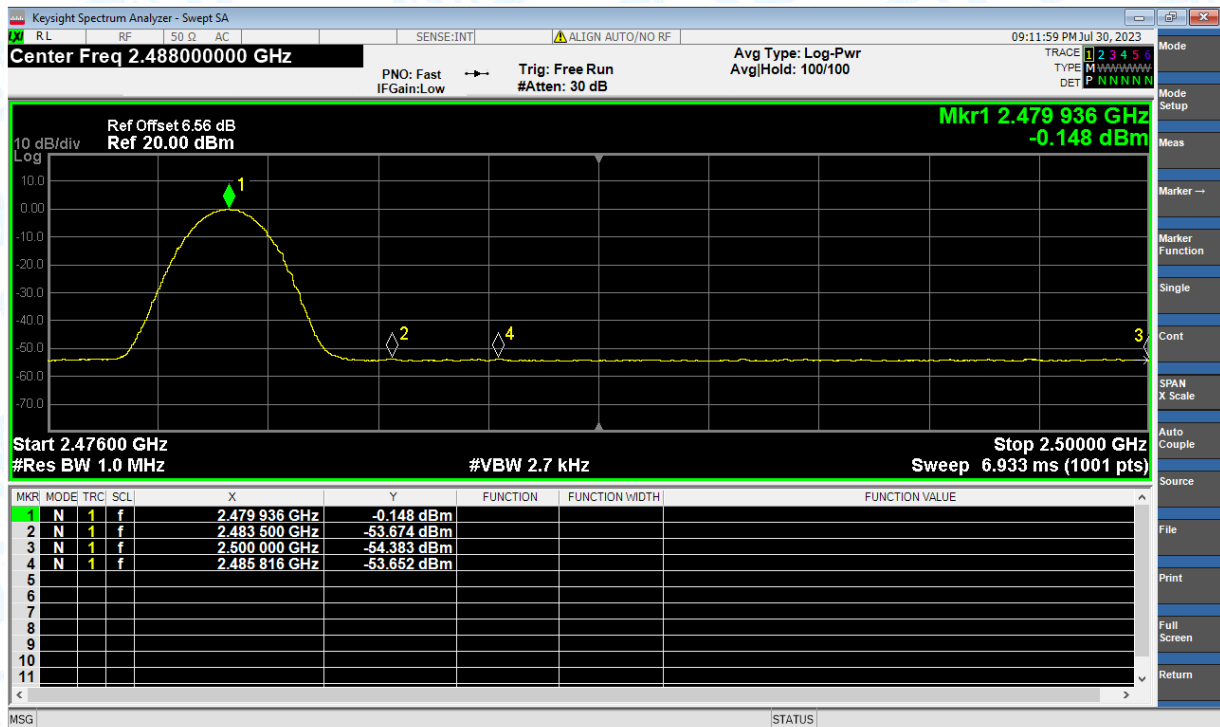
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



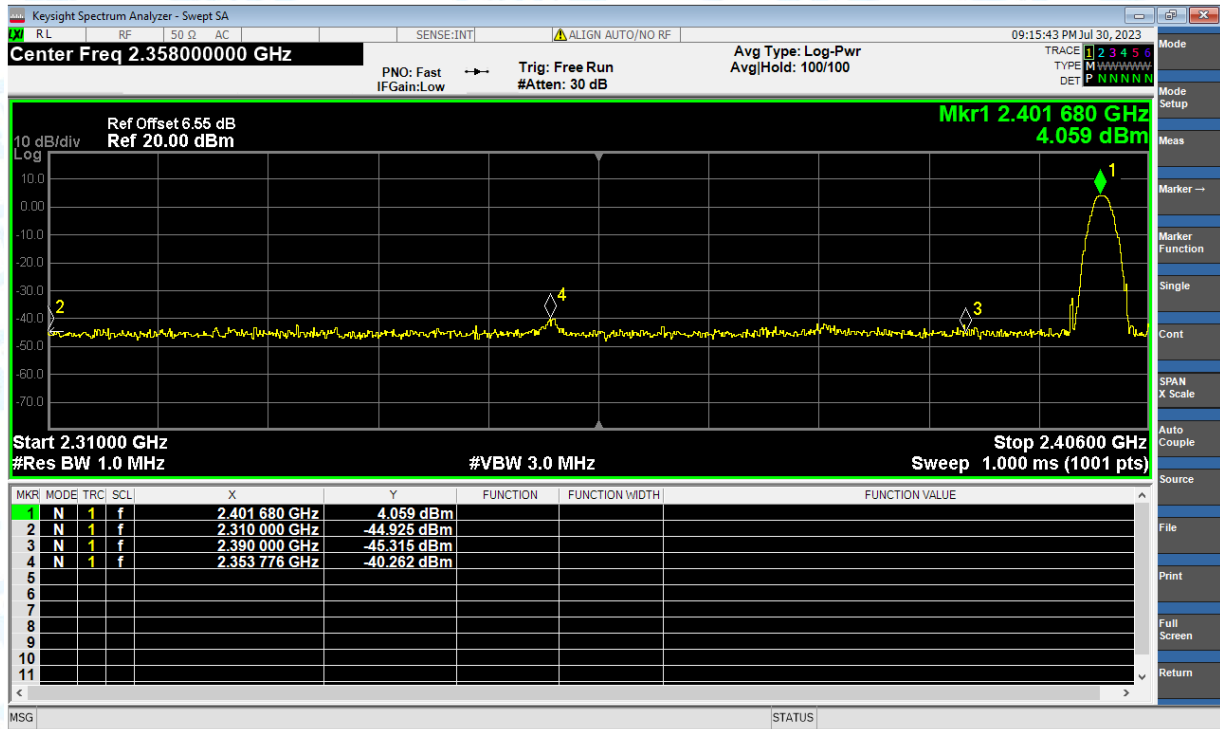
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



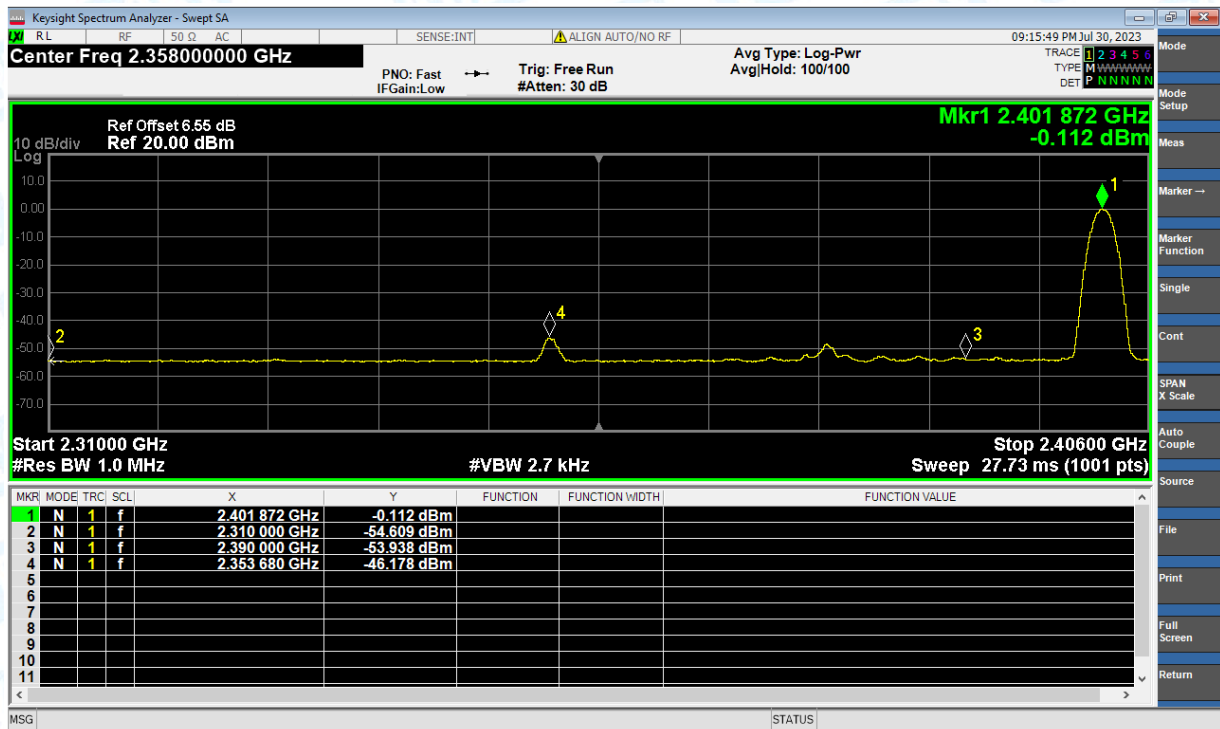
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



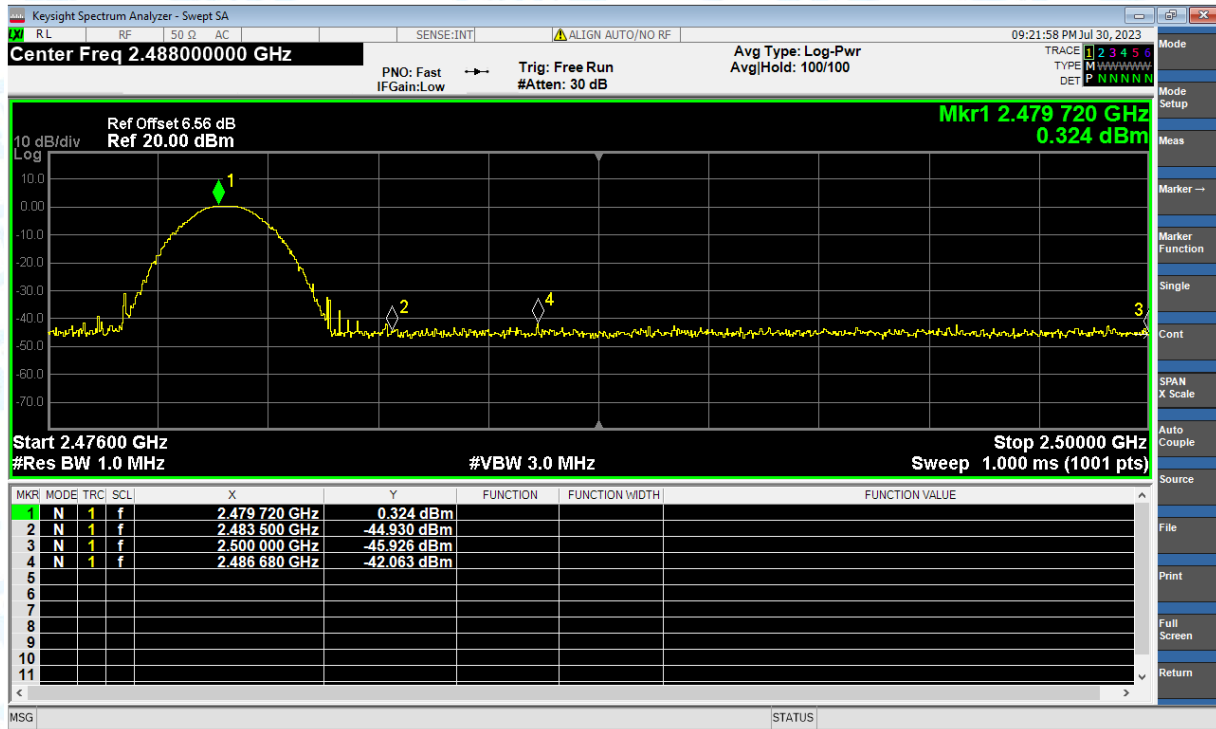
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



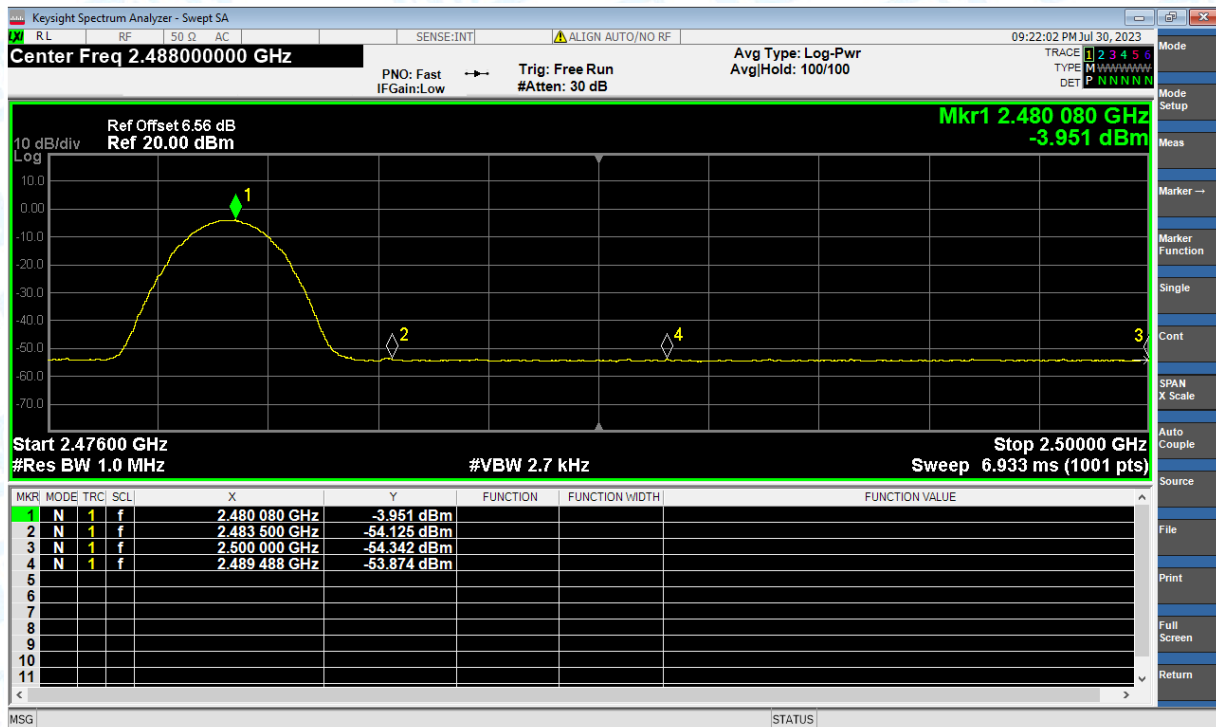
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



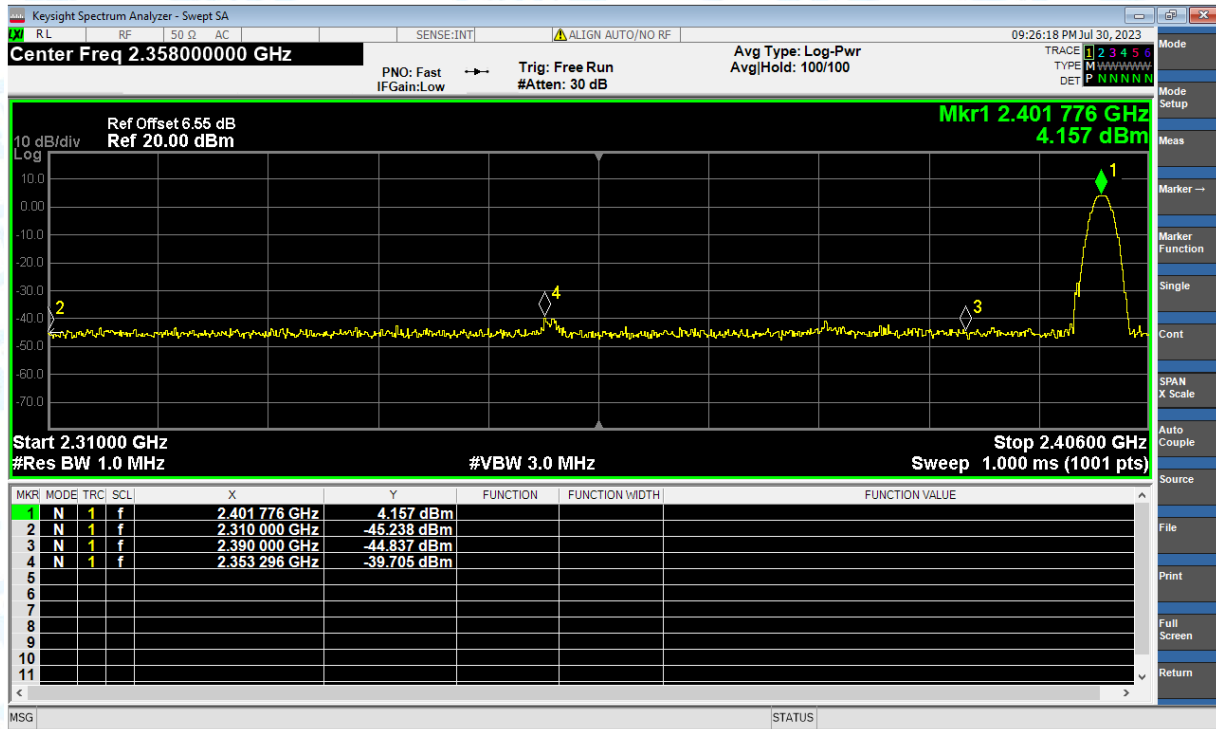
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



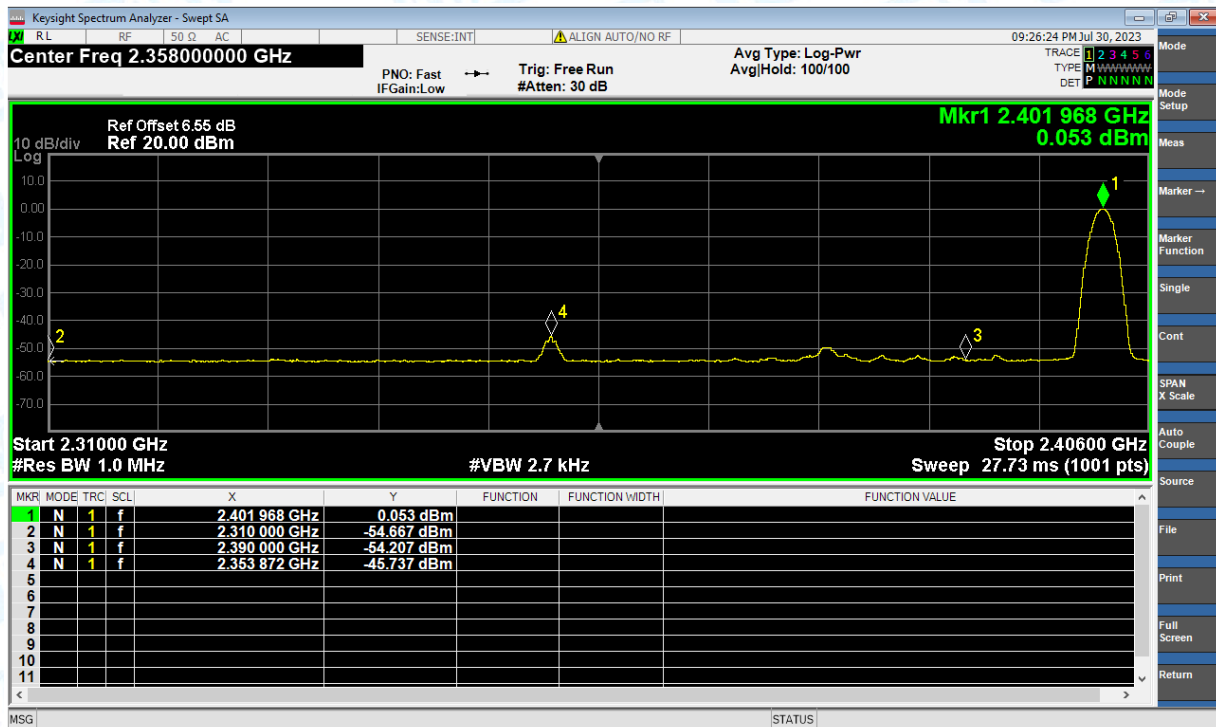
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



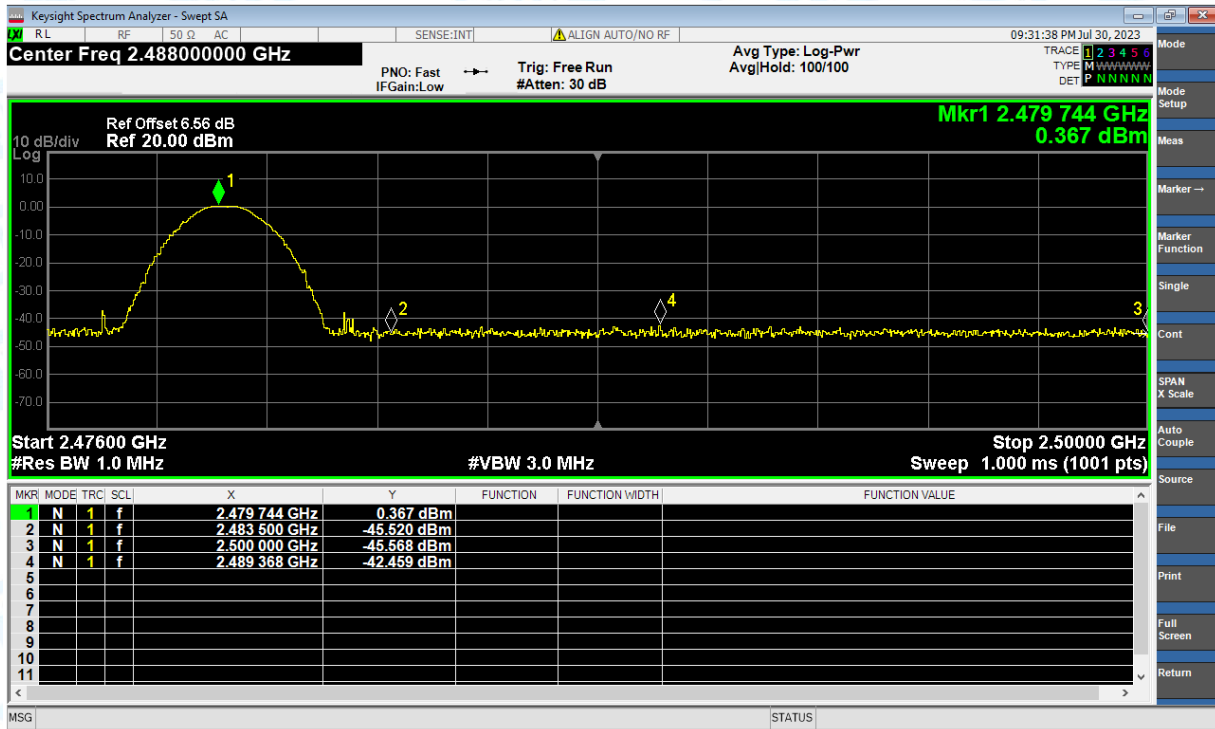
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



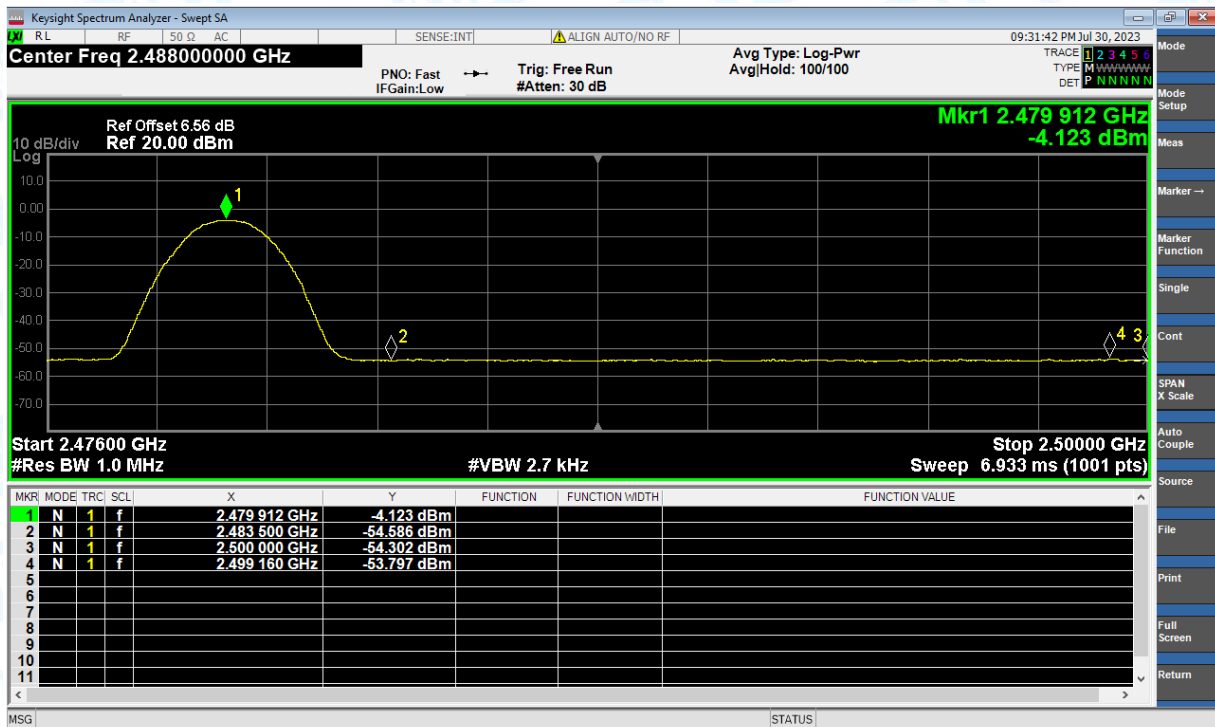
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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



9. Carrier Frequencies Separation

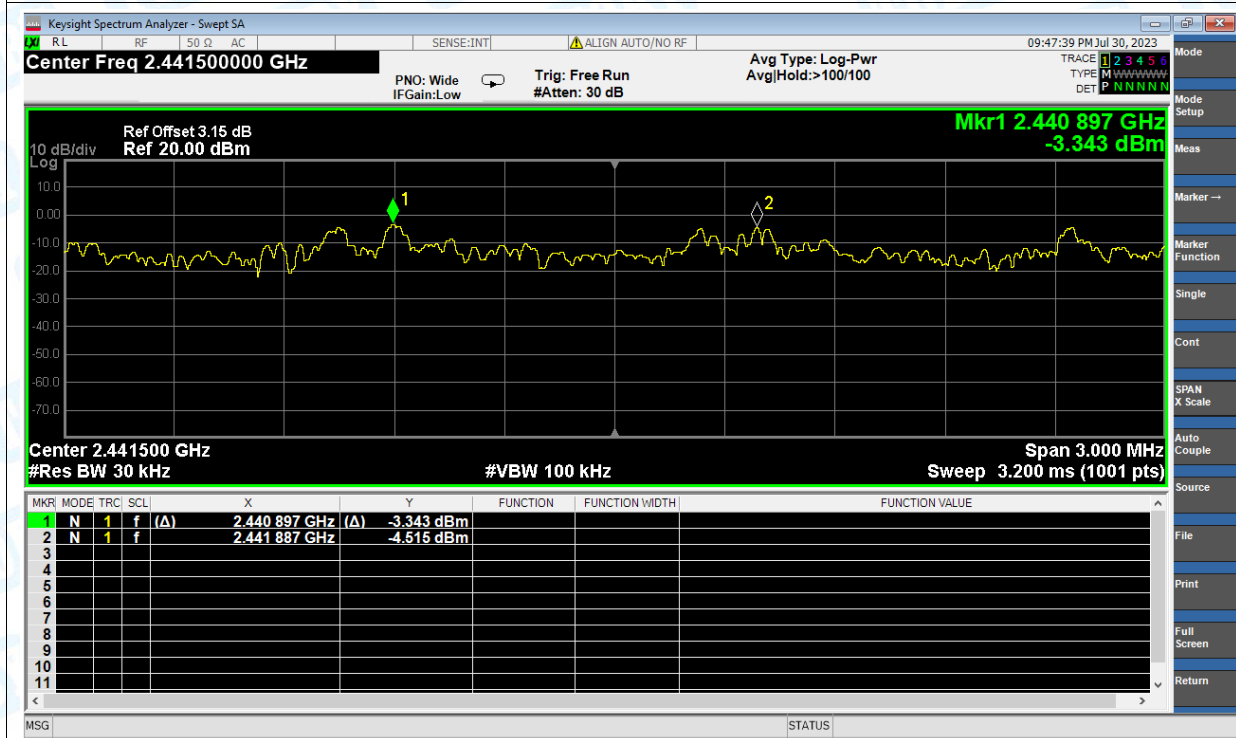
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.891	2441.914	1.023	0.607	Pass
NVNT	2-DH1	Ant1	2440.897	2441.887	0.99	0.84	Pass
NVNT	3-DH1	Ant1	2440.894	2441.908	1.014	0.853	Pass

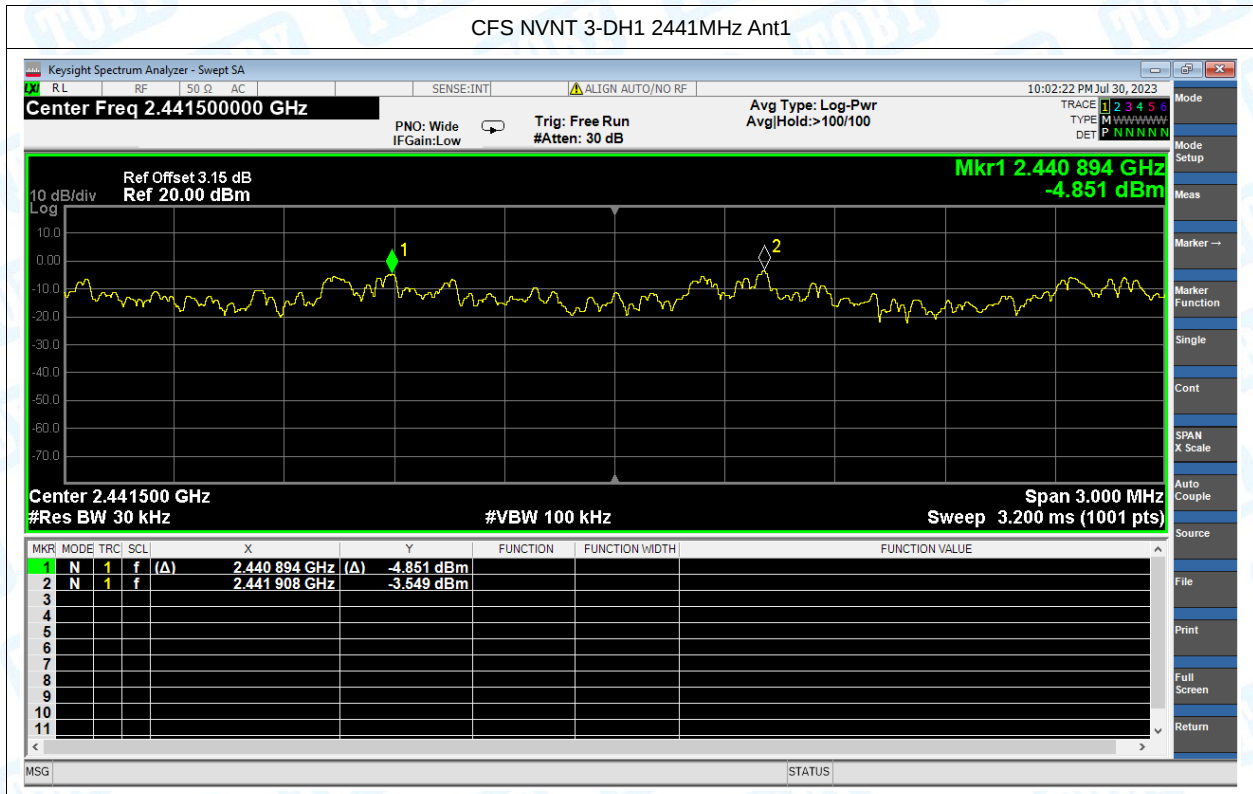
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



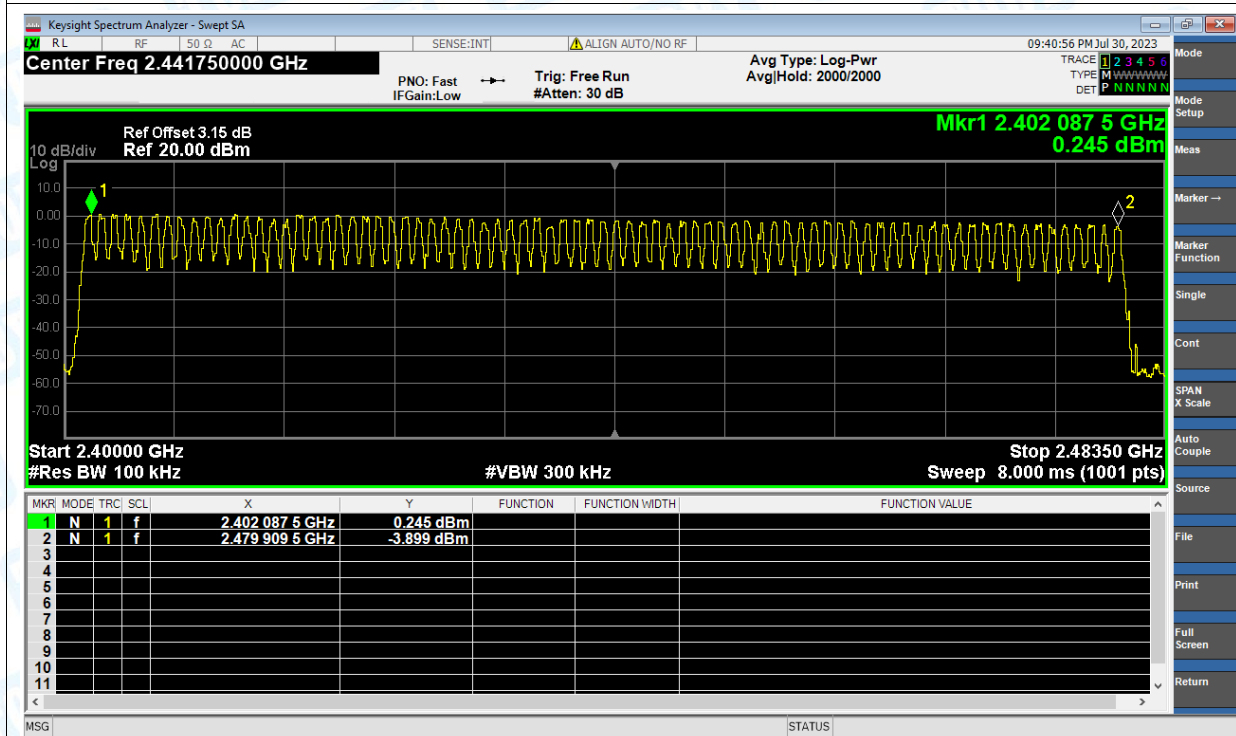


10. Number of Hopping Channel

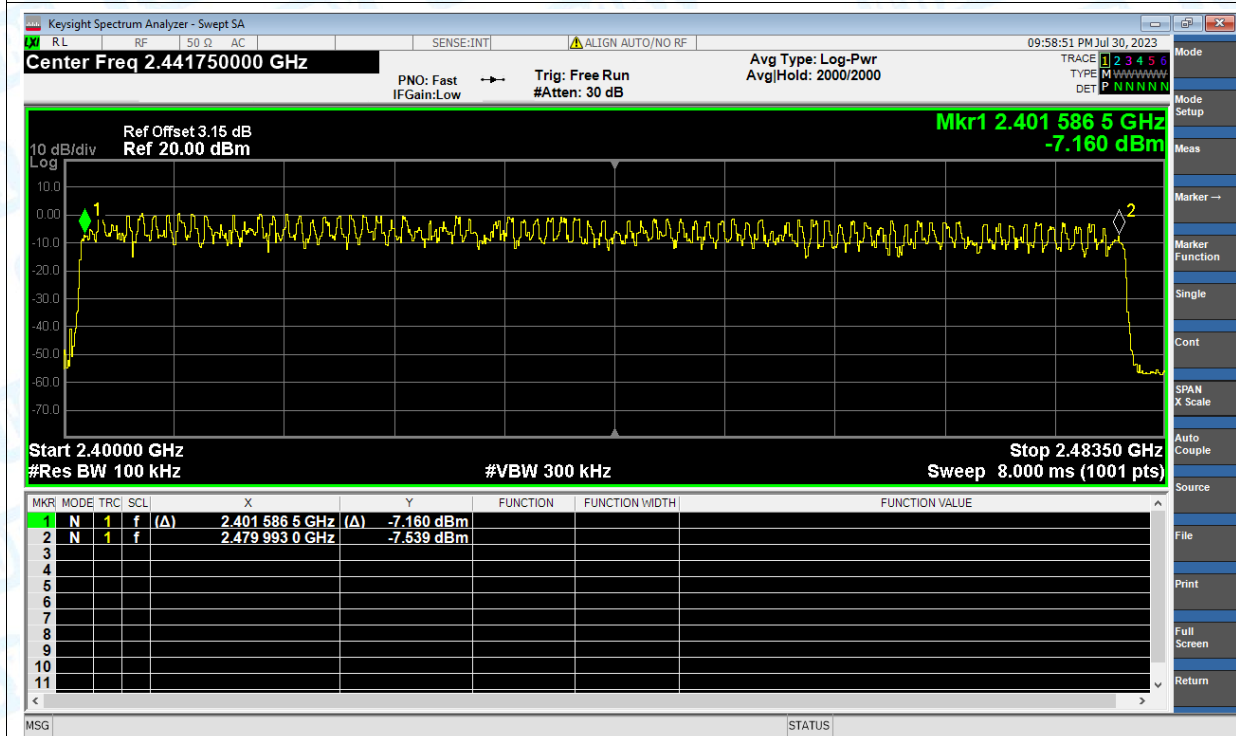
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

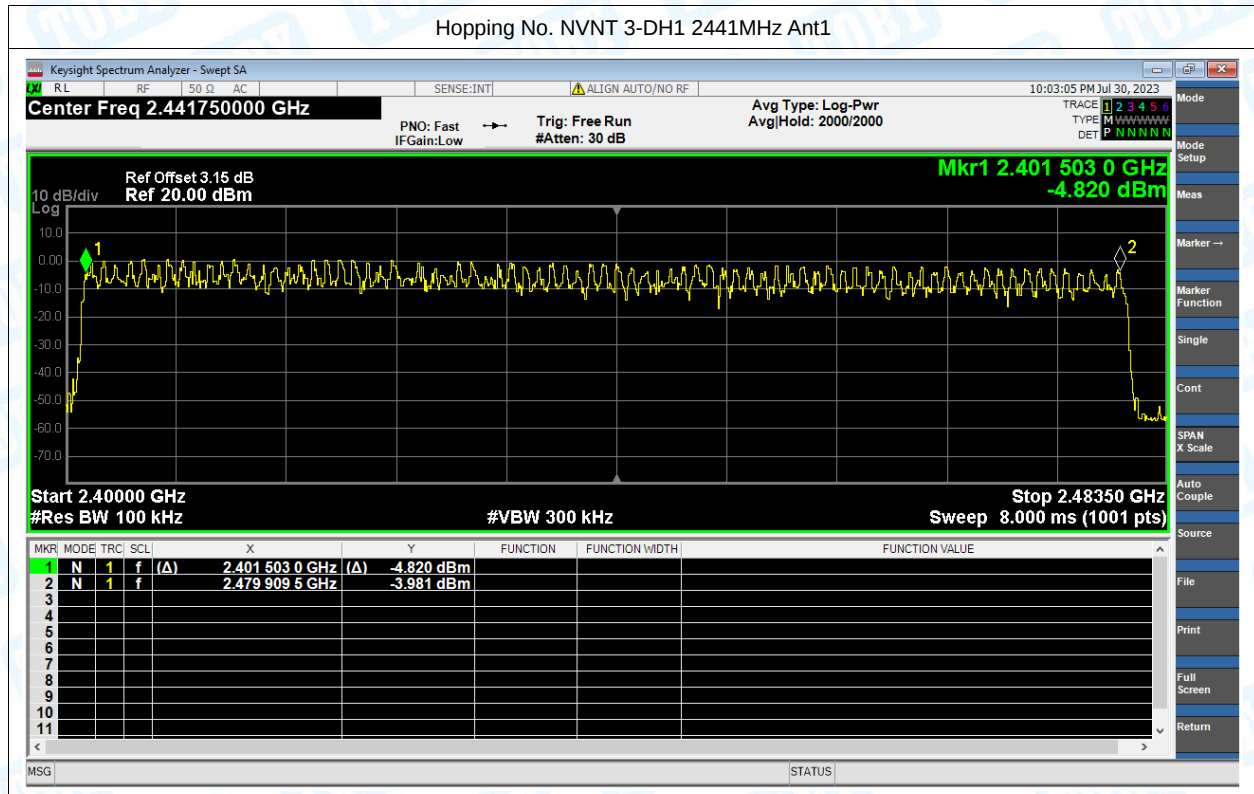
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



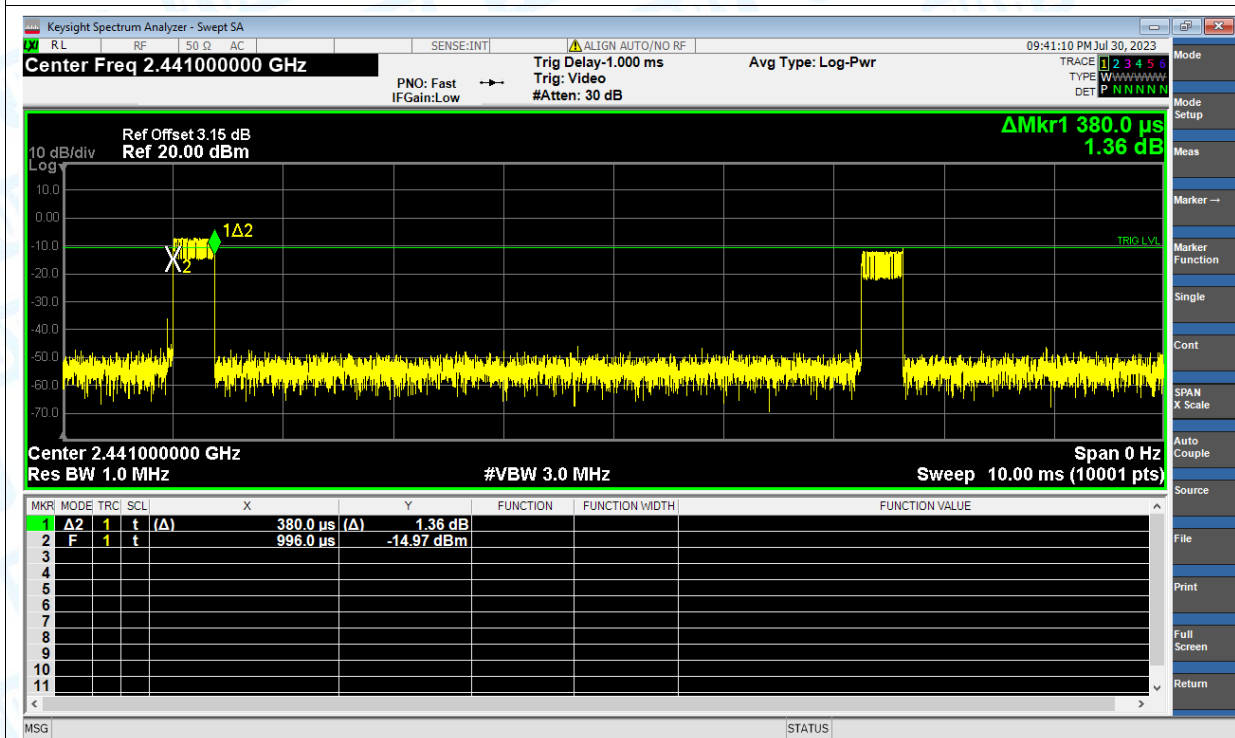


11. Dwell Time

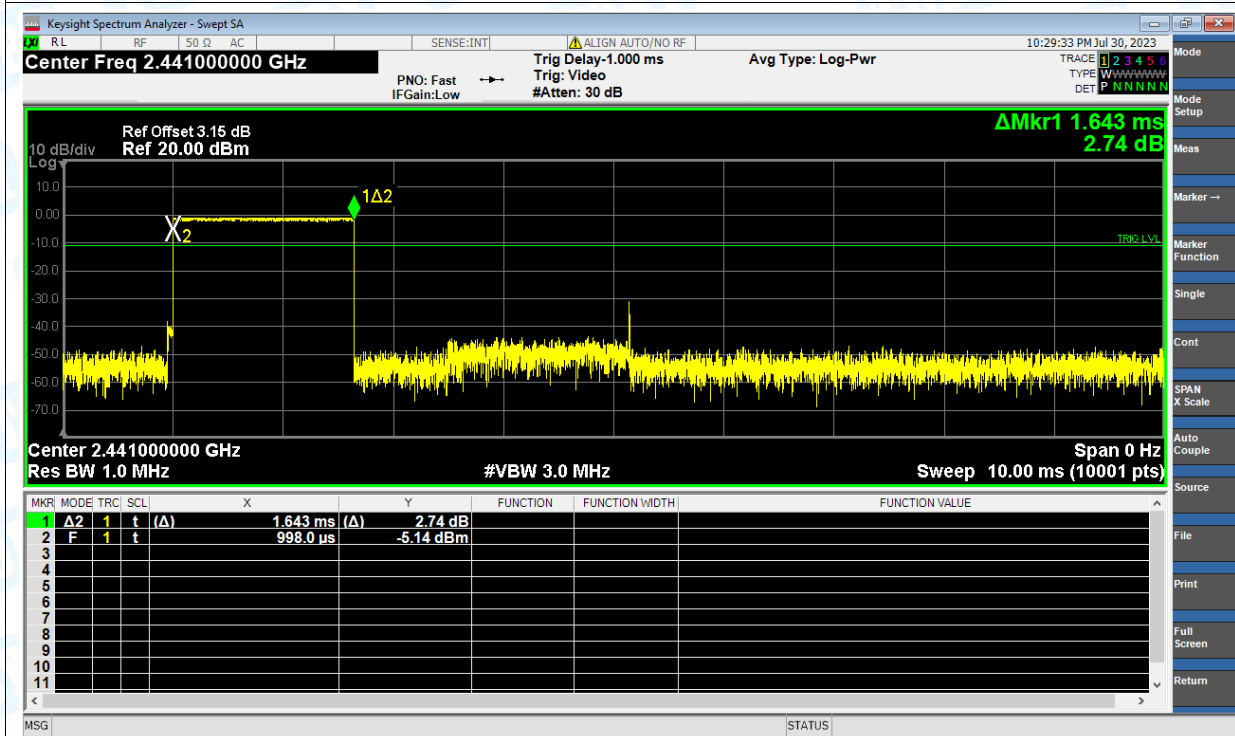
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.38	121.6	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.892	308.48	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.386	123.52	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.386	123.52	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

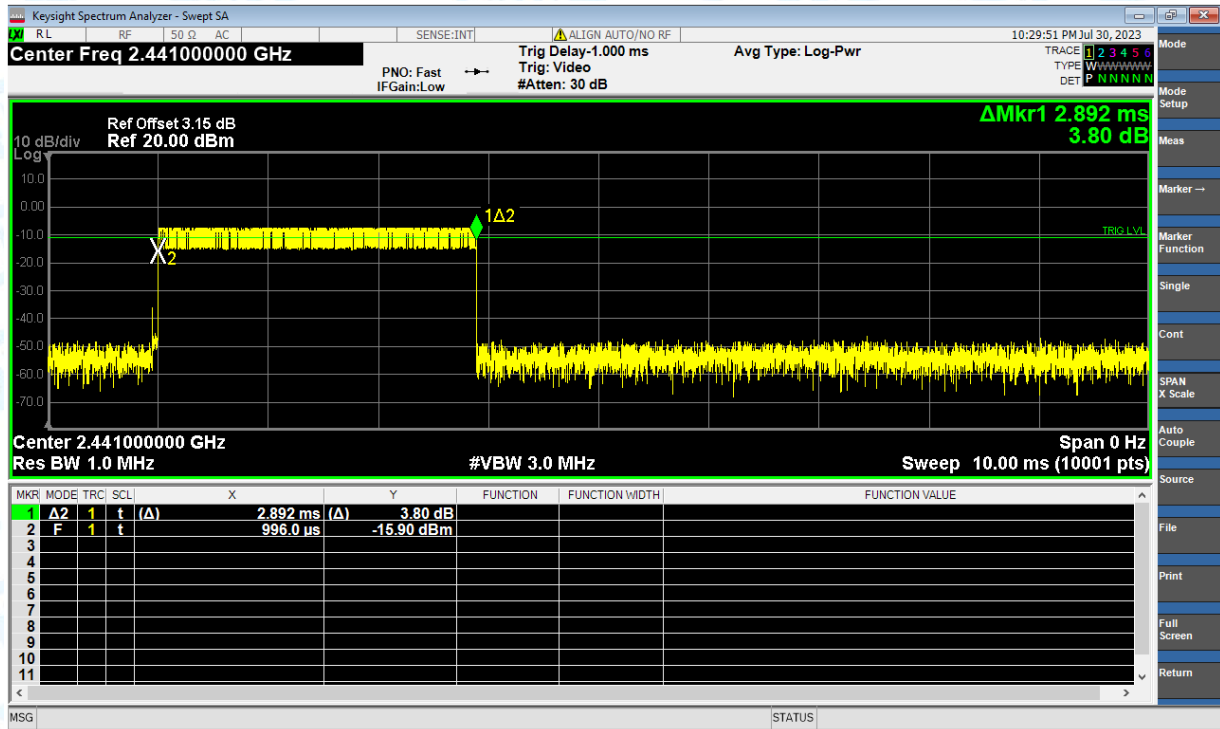
Dwell NVNT 1-DH1 2441MHz Ant1



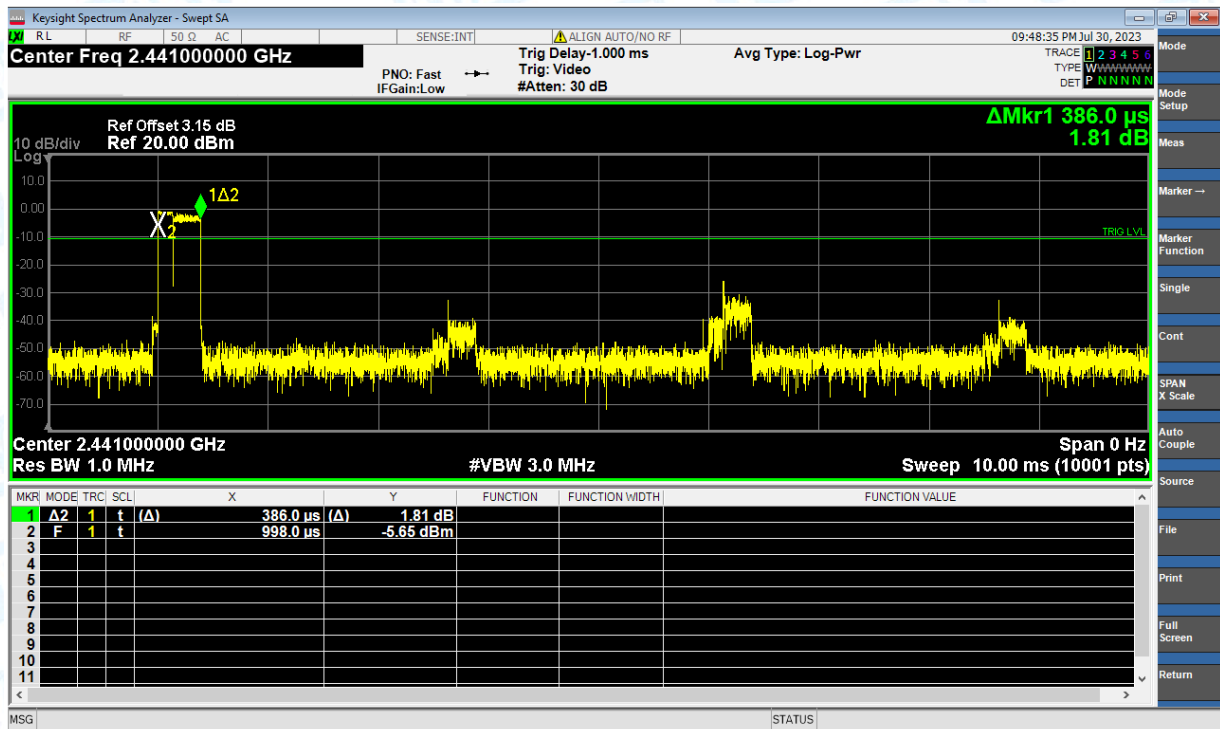
Dwell NVNT 1-DH3 2441MHz Ant1



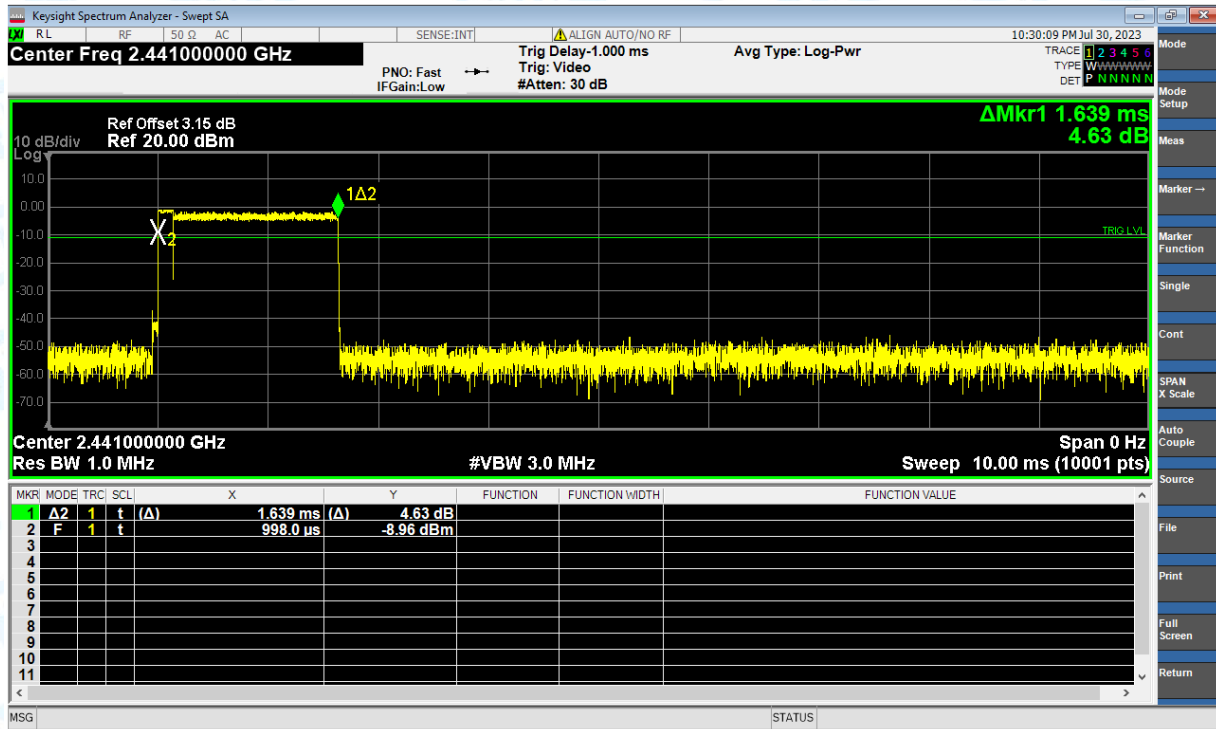
Dwell NVNT 1-DH5 2441MHz Ant1



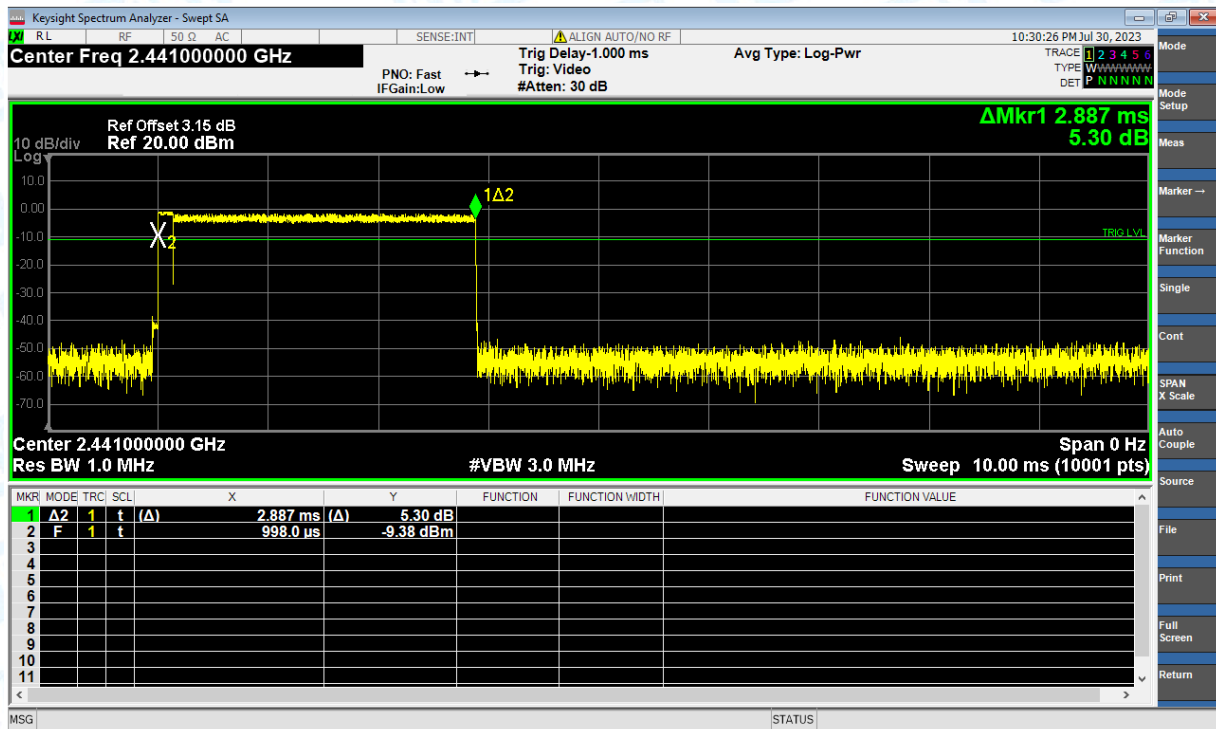
Dwell NVNT 2-DH1 2441MHz Ant1



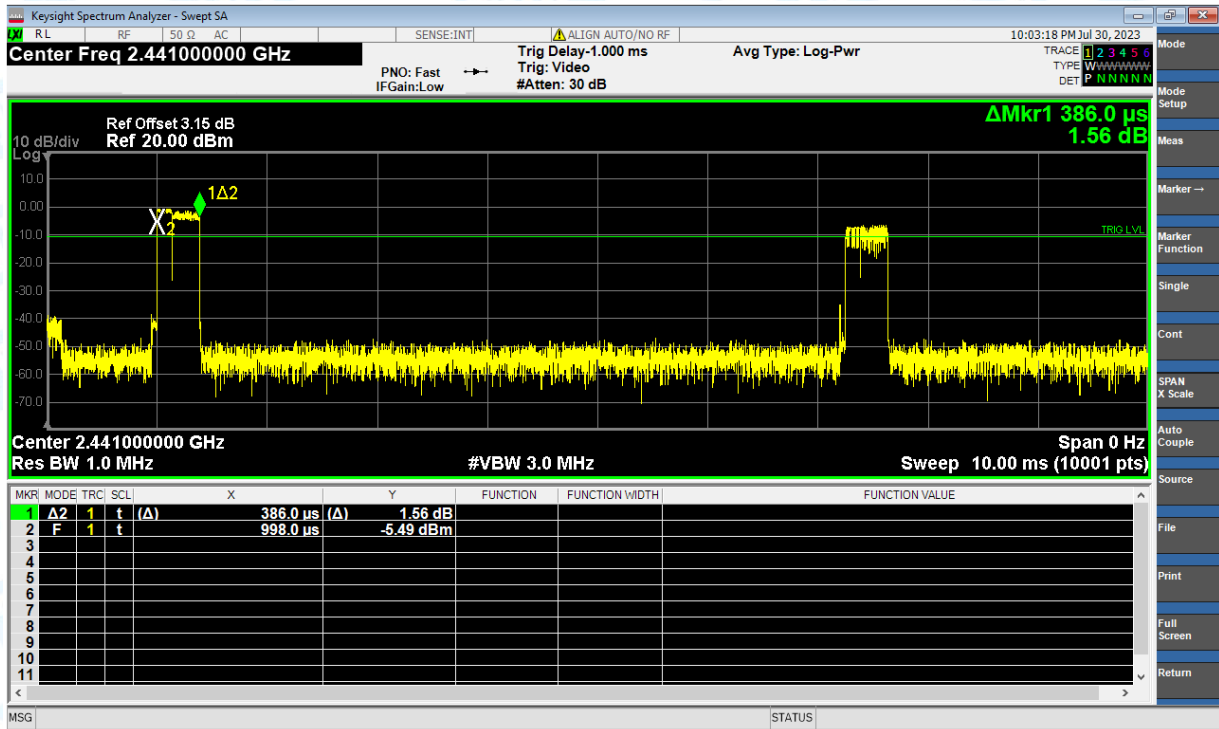
Dwell NVNT 2-DH3 2441MHz Ant1



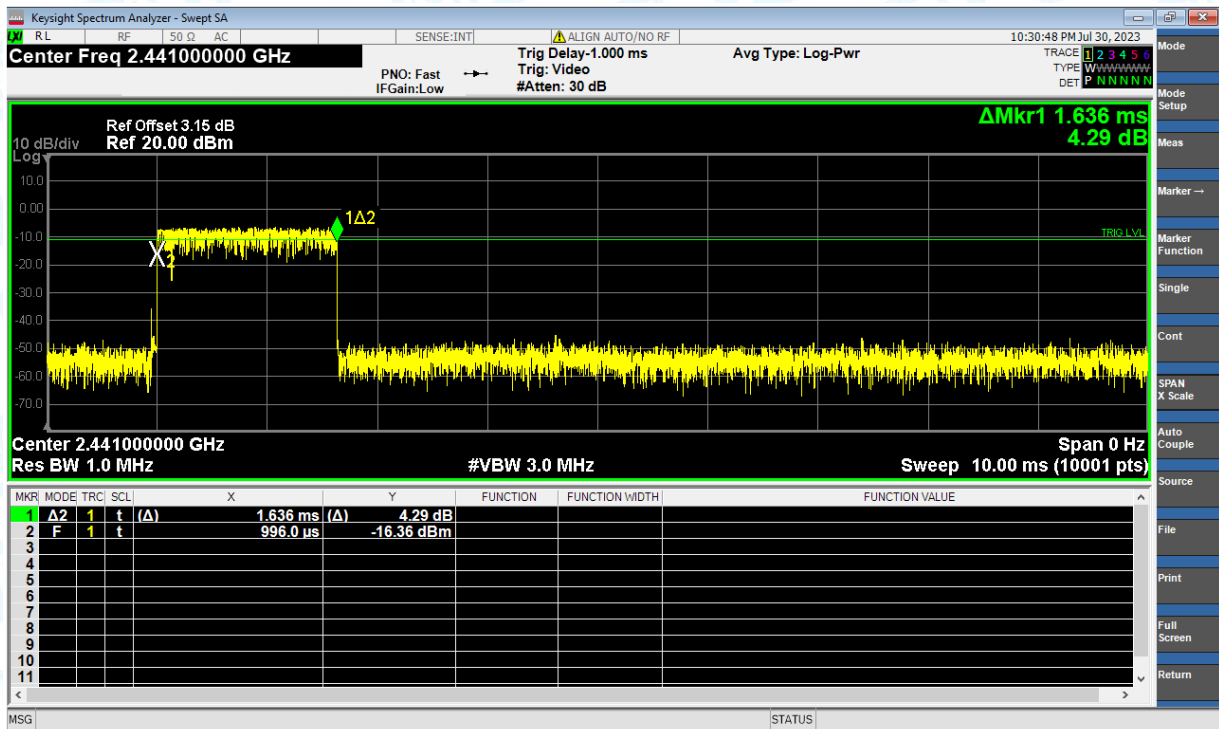
Dwell NVNT 2-DH5 2441MHz Ant1

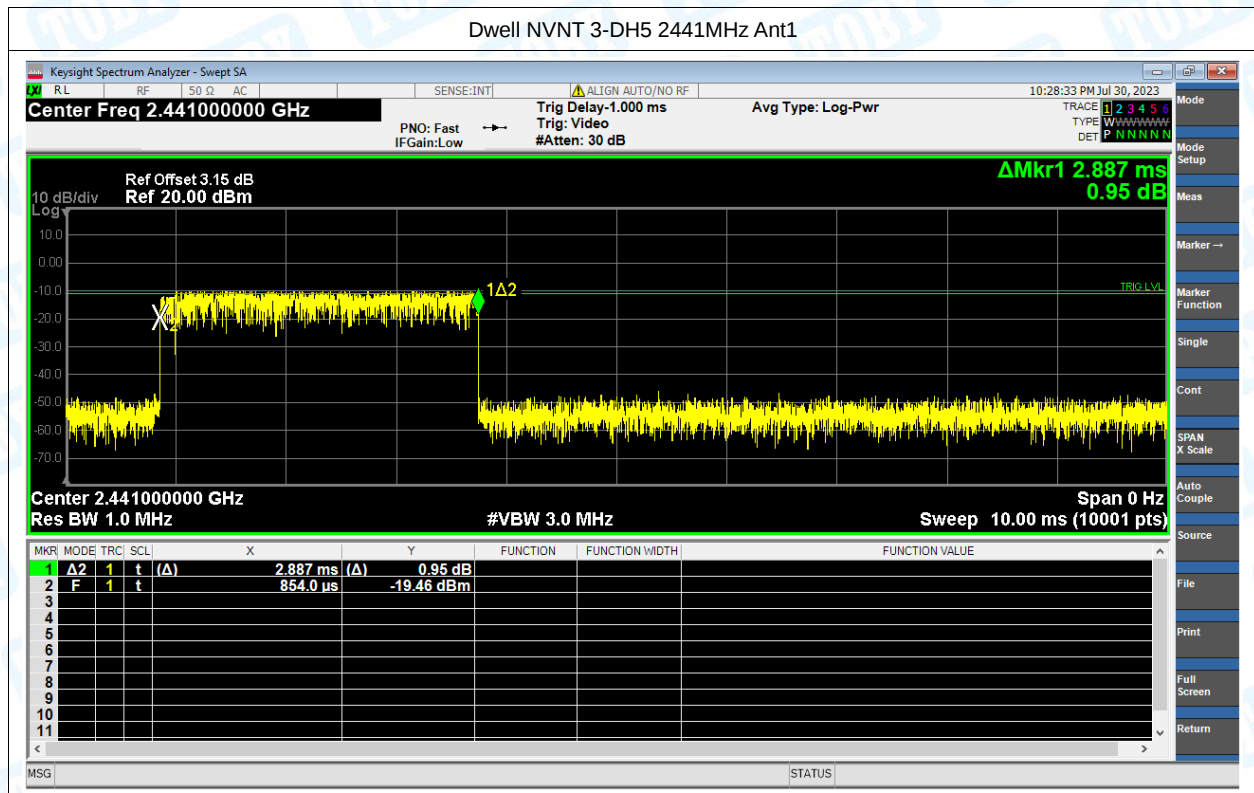


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





-----END OF THE REPORT-----