

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

General Description of EUT	
Product Name:	TACGZGJSM
Test Model:	TACSKY-A200
Sample ID:	202307-0270-3-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202307-0270-41 The report only show the worst case data.	

Contents

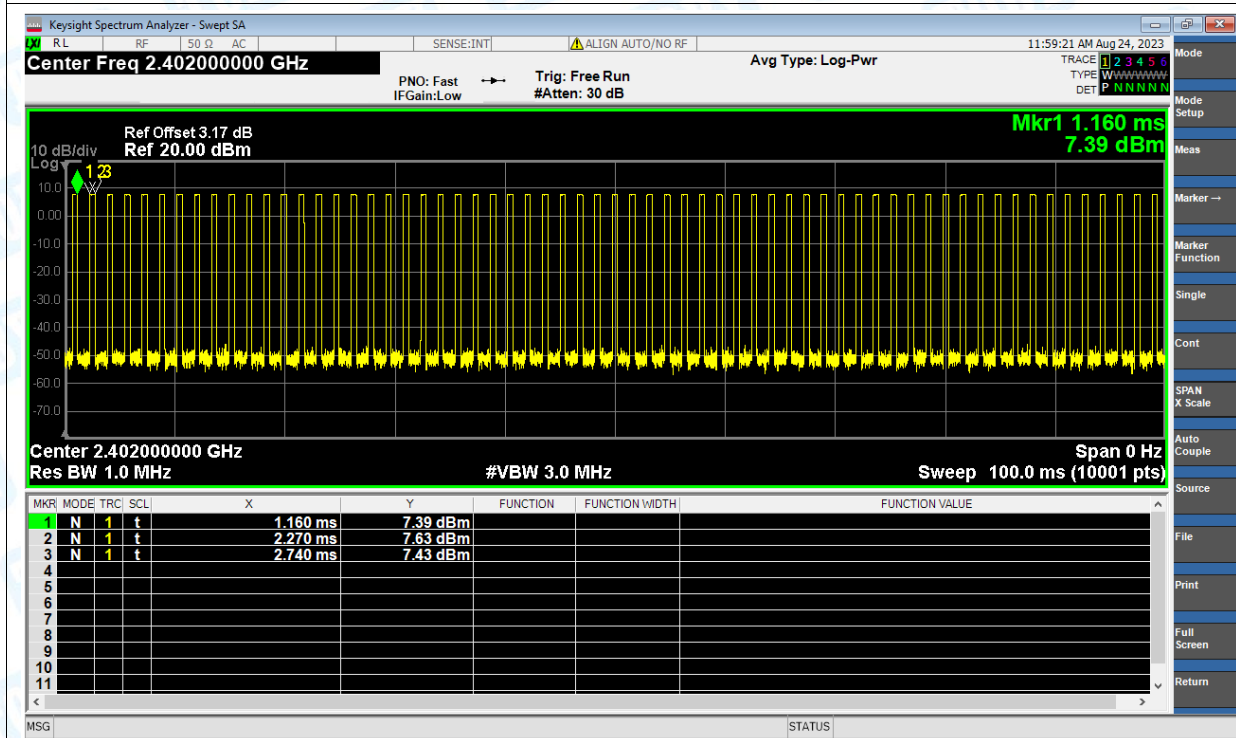
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1. Duty Cycle

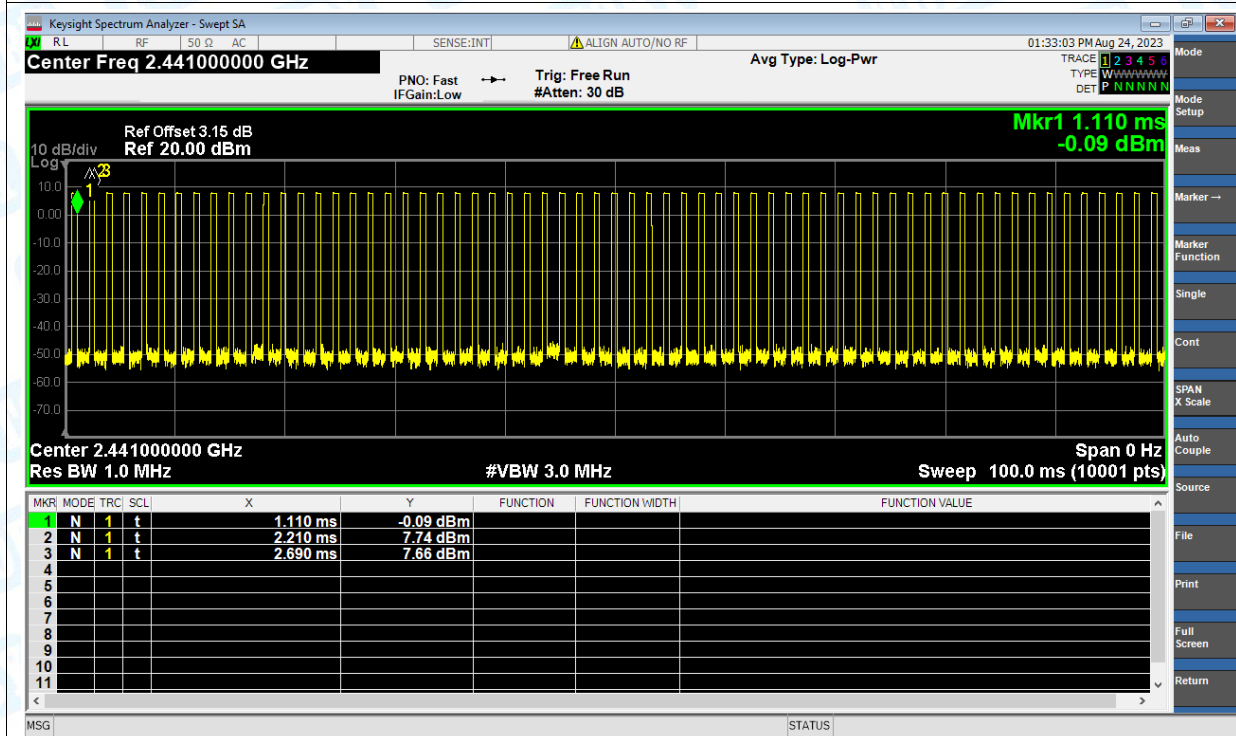
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	29.75	5.27	2.13
NVNT	1-DH1	2441	Ant1	30.38	5.17	2.08
NVNT	1-DH1	2480	Ant1	29.75	5.27	2.13
NVNT	2-DH1	2402	Ant1	30.63	5.14	2.04
NVNT	2-DH1	2441	Ant1	30.63	5.14	2.04
NVNT	2-DH1	2480	Ant1	30.62	5.14	2.04
NVNT	3-DH1	2402	Ant1	30.82	5.11	2.04
NVNT	3-DH1	2441	Ant1	30.62	5.14	2.04
NVNT	3-DH1	2480	Ant1	30.63	5.14	2.04

Test Graphs

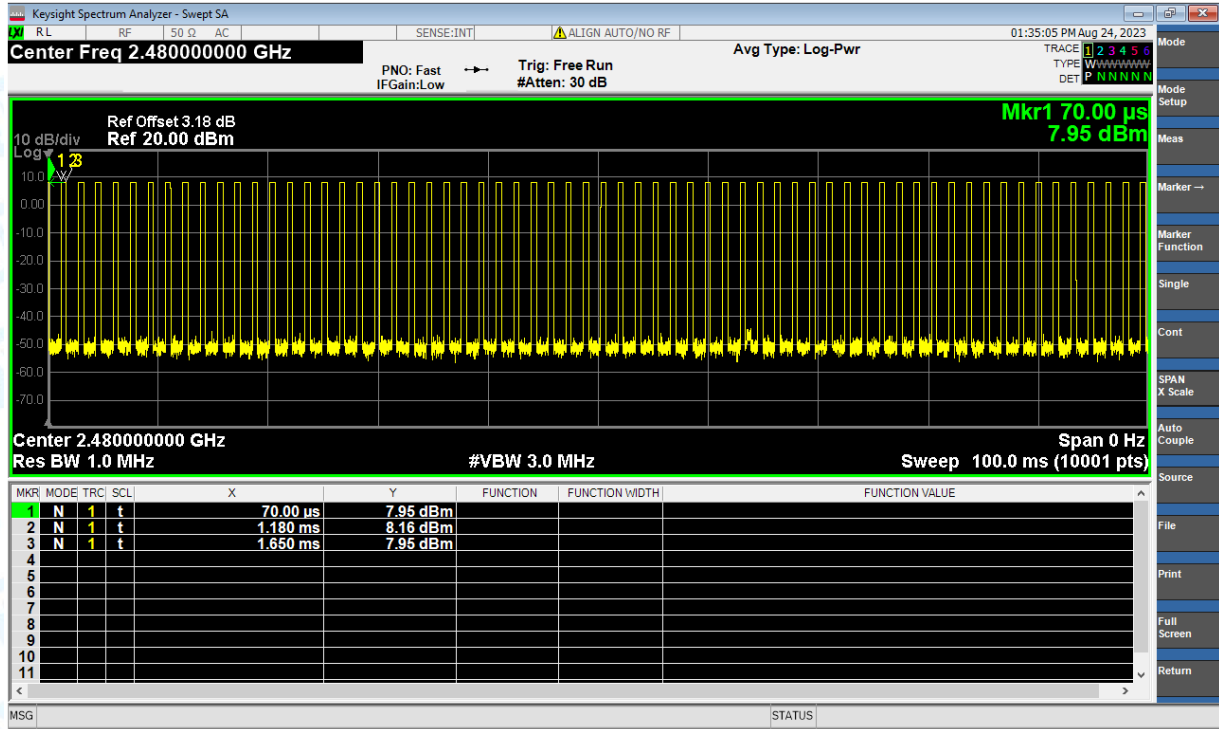
Duty Cycle NVNT 1-DH1 2402MHz Ant1



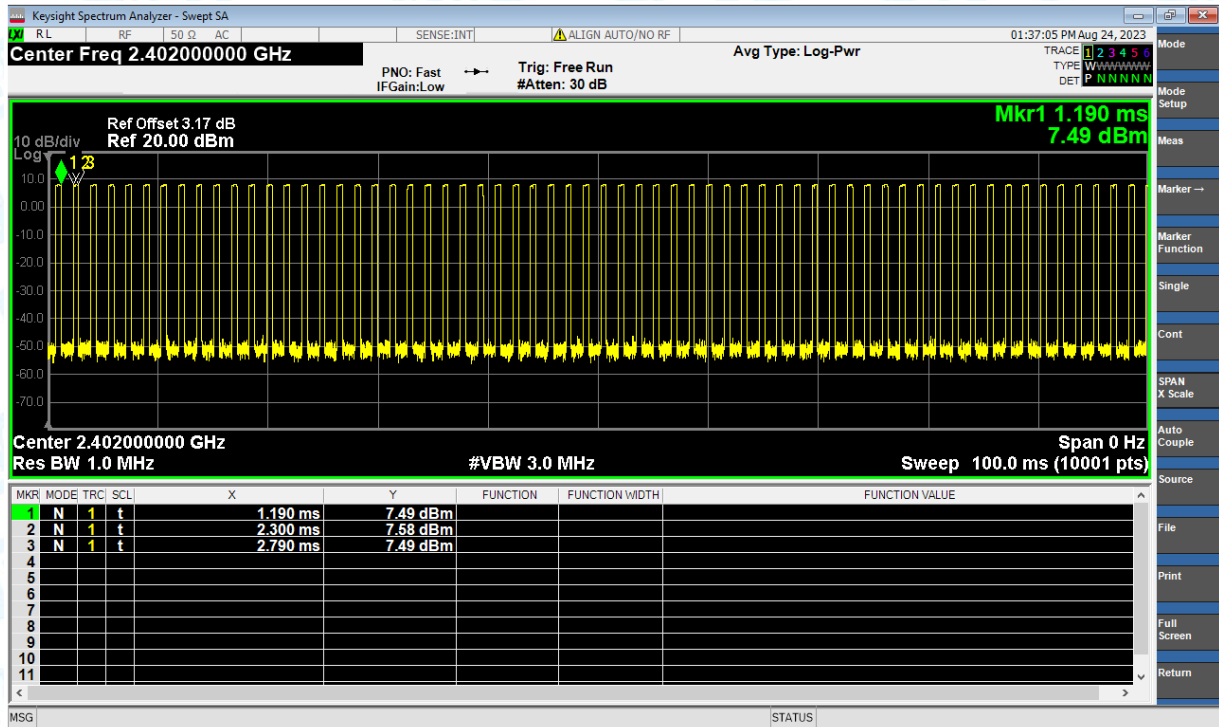
Duty Cycle NVNT 1-DH1 2441MHz Ant1



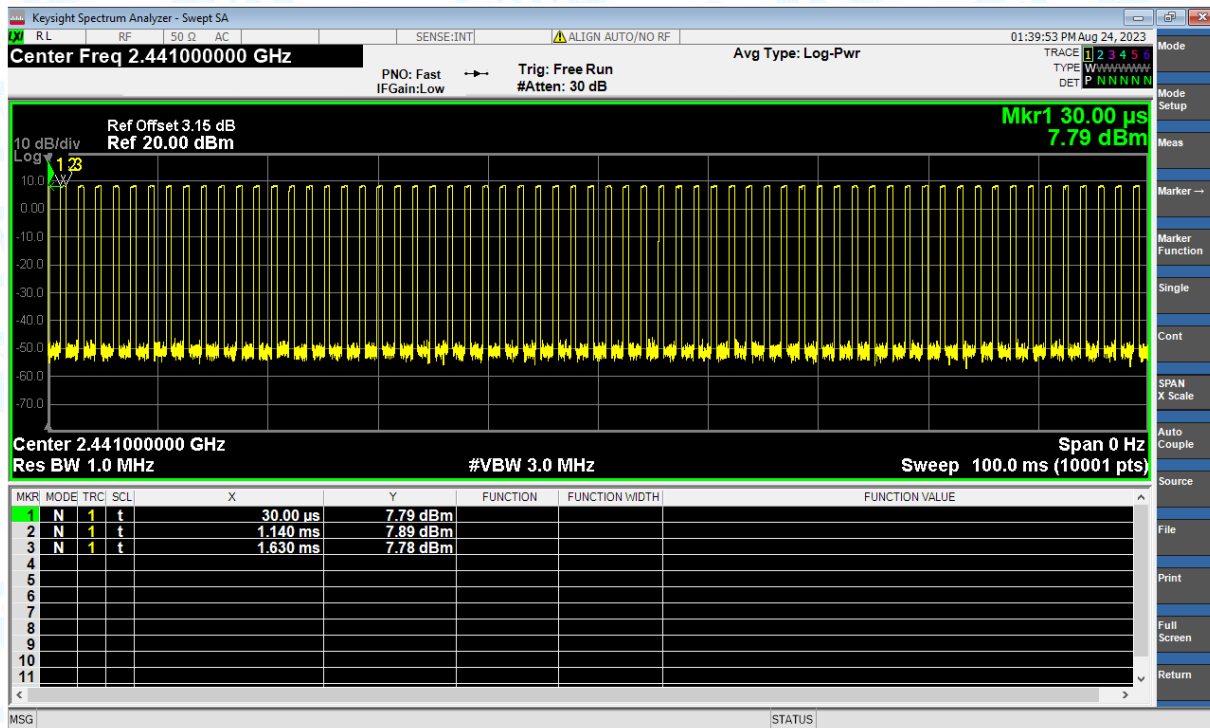
Duty Cycle NVNT 1-DH1 2480MHz Ant1



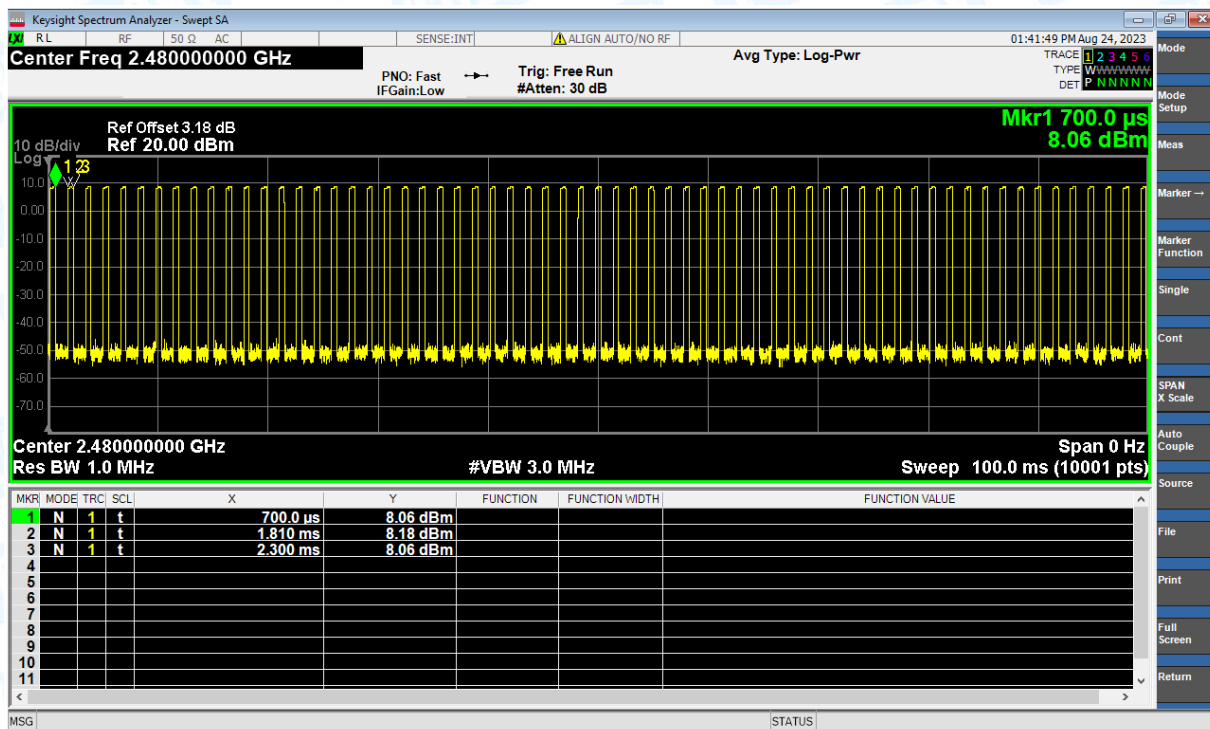
Duty Cycle NVNT 2-DH1 2402MHz Ant1



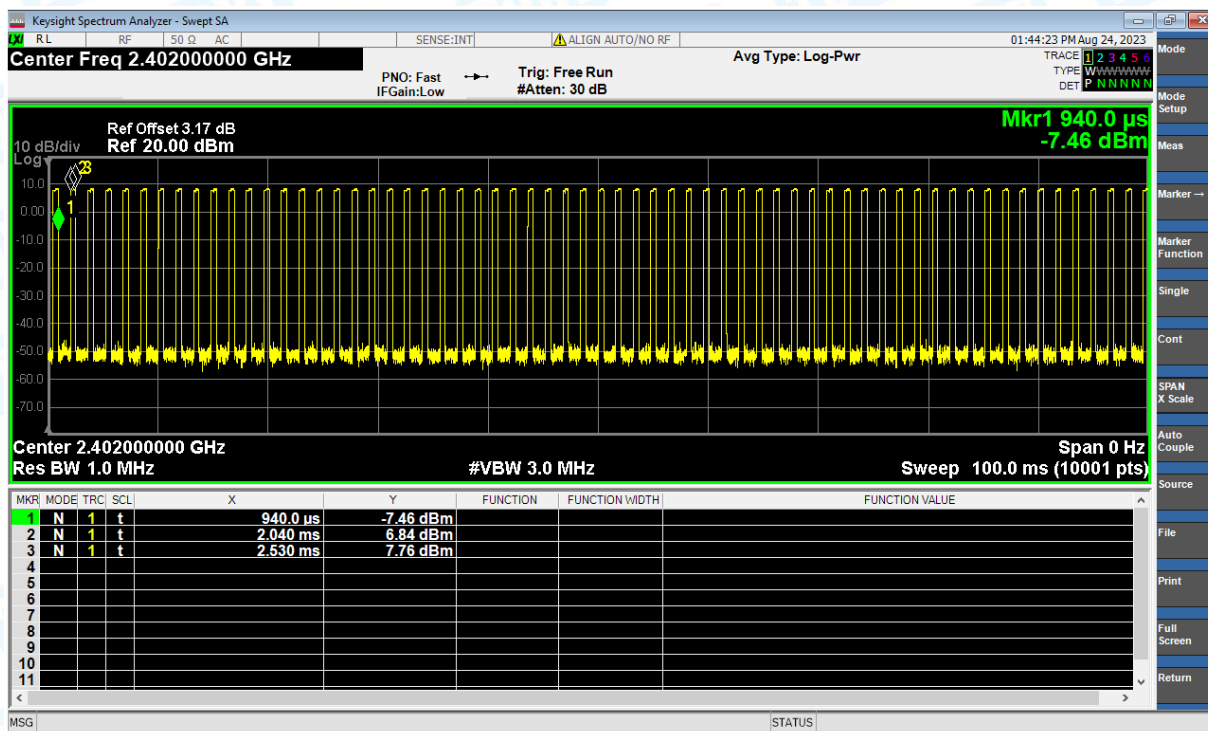
Duty Cycle NVNT 2-DH1 2441MHz Ant1



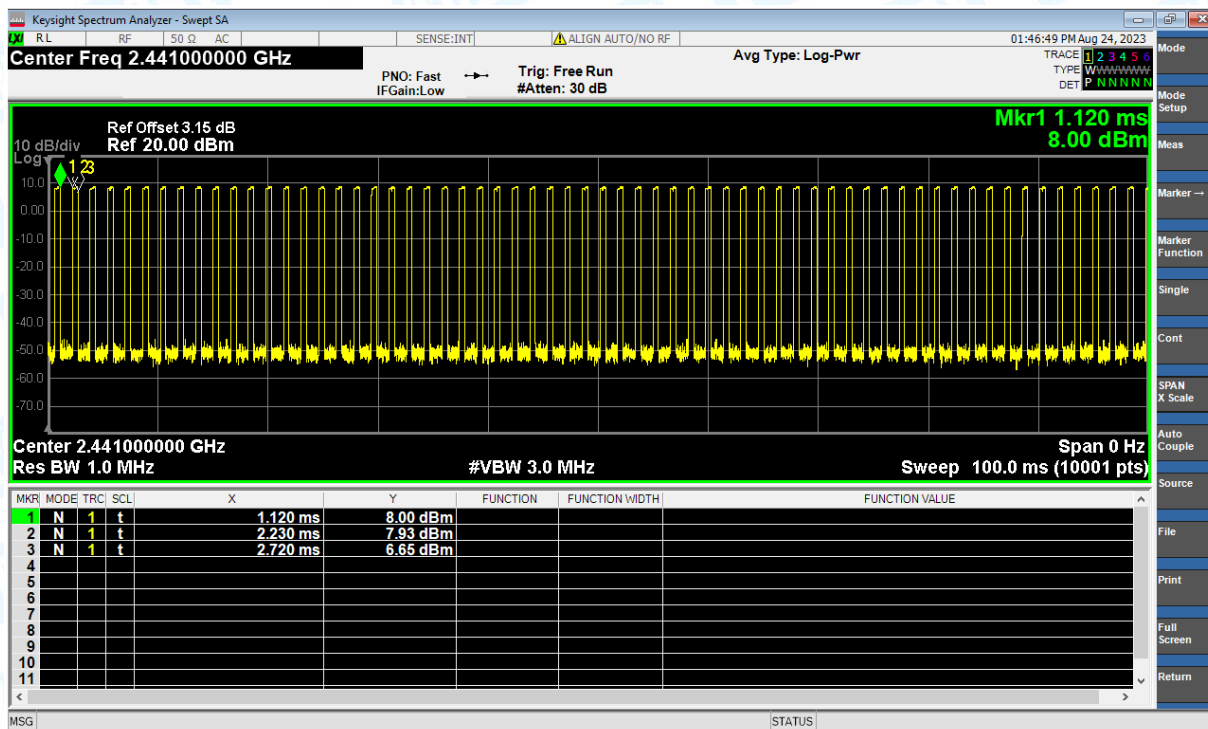
Duty Cycle NVNT 2-DH1 2480MHz Ant1

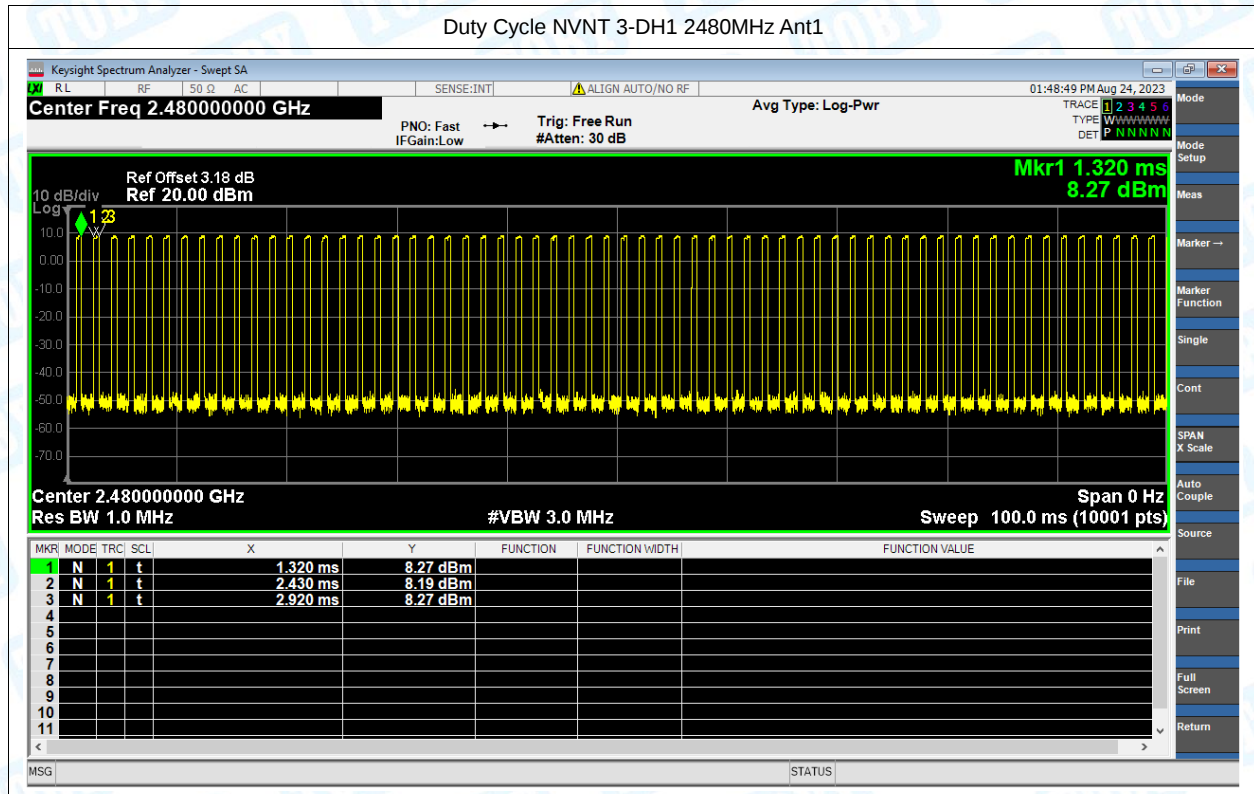


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



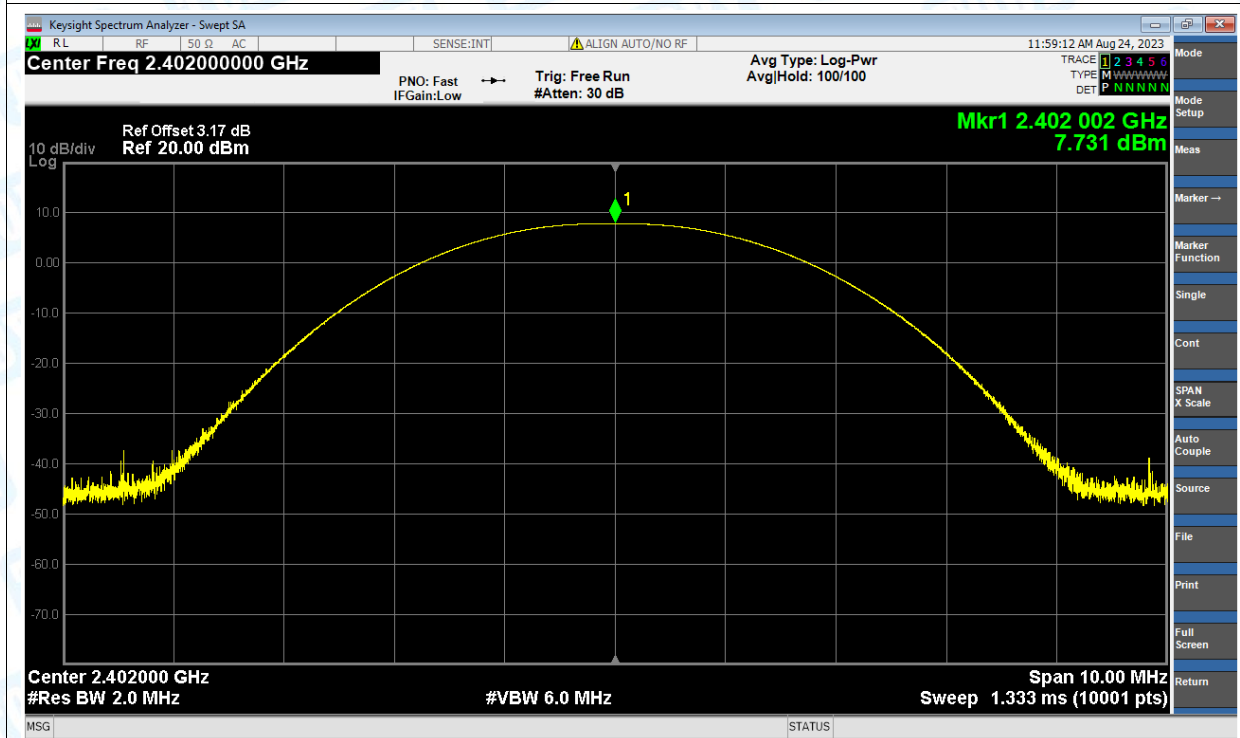


2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	7.731	21	Pass
NVNT	1-DH1	2441	Ant1	7.998	21	Pass
NVNT	1-DH1	2480	Ant1	8.274	21	Pass
NVNT	2-DH1	2402	Ant1	8.575	21	Pass
NVNT	2-DH1	2441	Ant1	8.883	21	Pass
NVNT	2-DH1	2480	Ant1	9.239	21	Pass
NVNT	3-DH1	2402	Ant1	8.612	21	Pass
NVNT	3-DH1	2441	Ant1	8.899	21	Pass
NVNT	3-DH1	2480	Ant1	9.265	21	Pass

Test Graphs

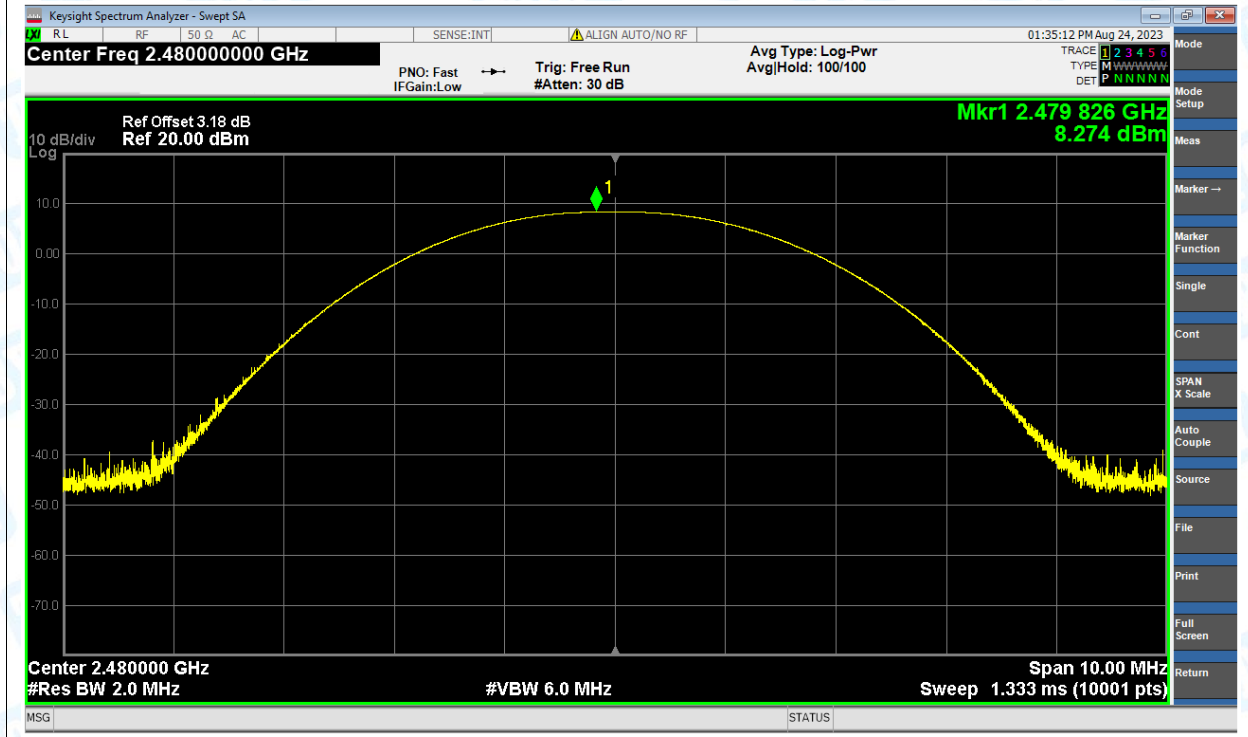
Power NVNT 1-DH1 2402MHz Ant1



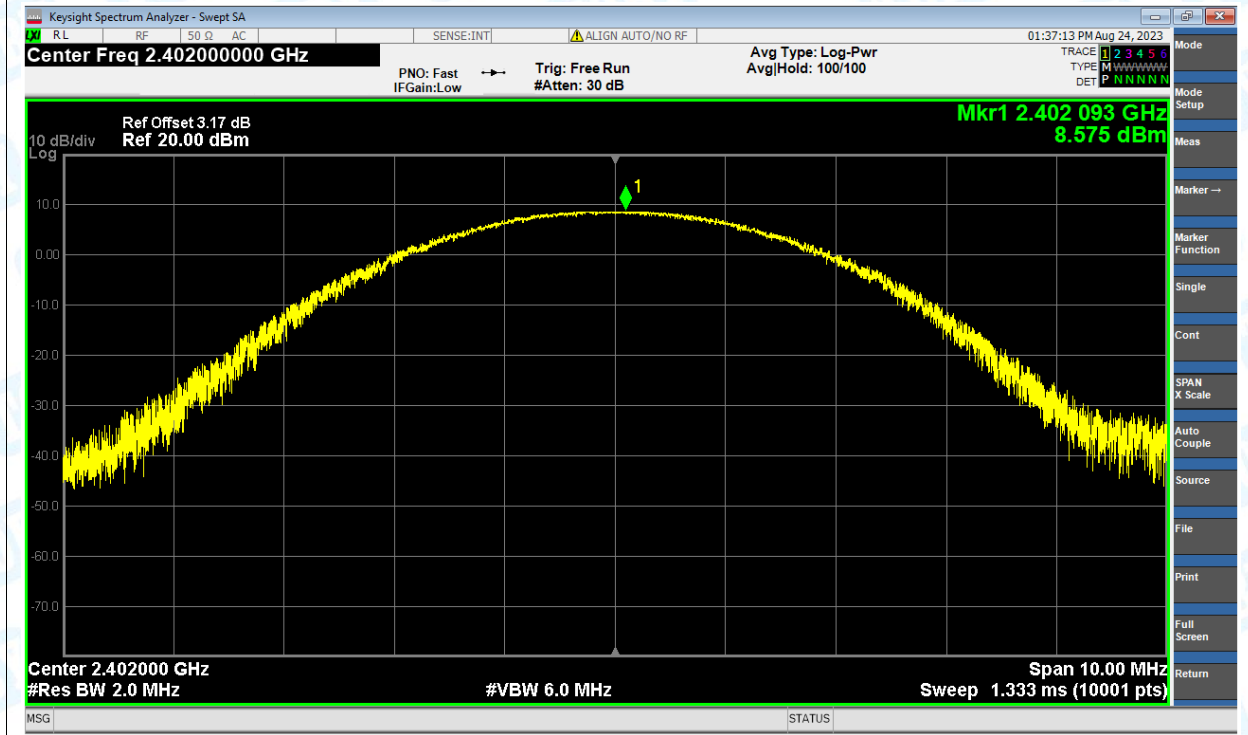
Power NVNT 1-DH1 2441MHz Ant1



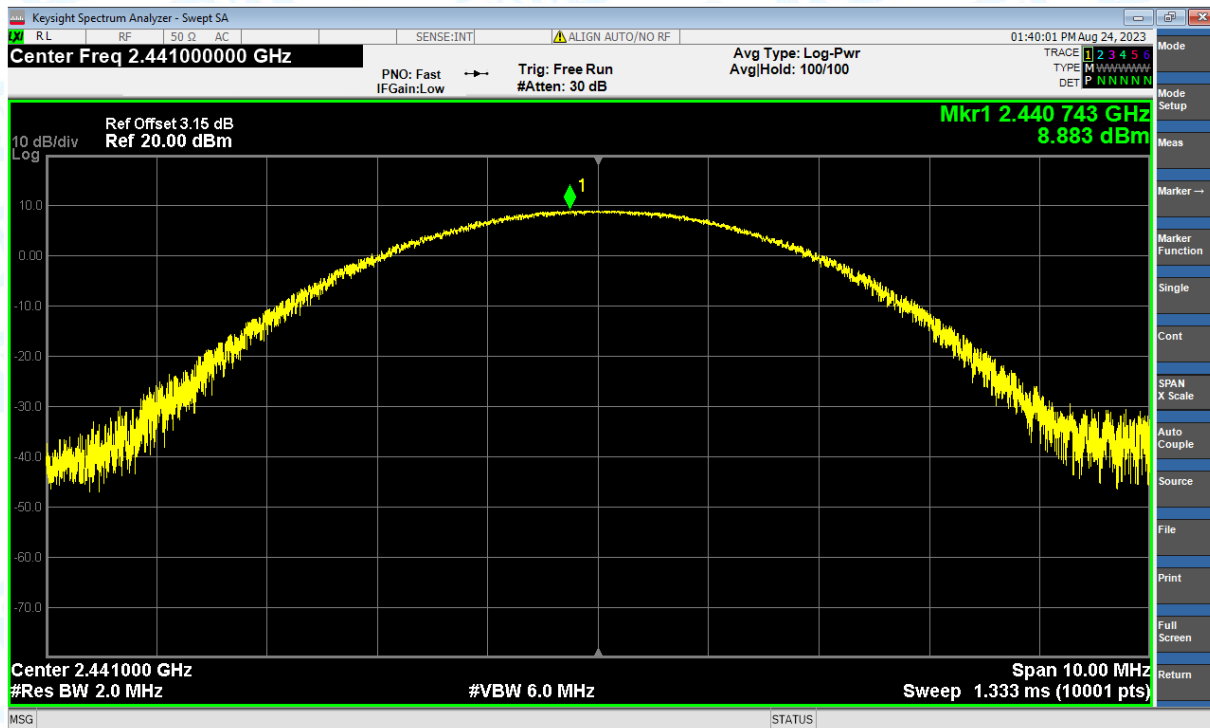
Power NVNT 1-DH1 2480MHz Ant1



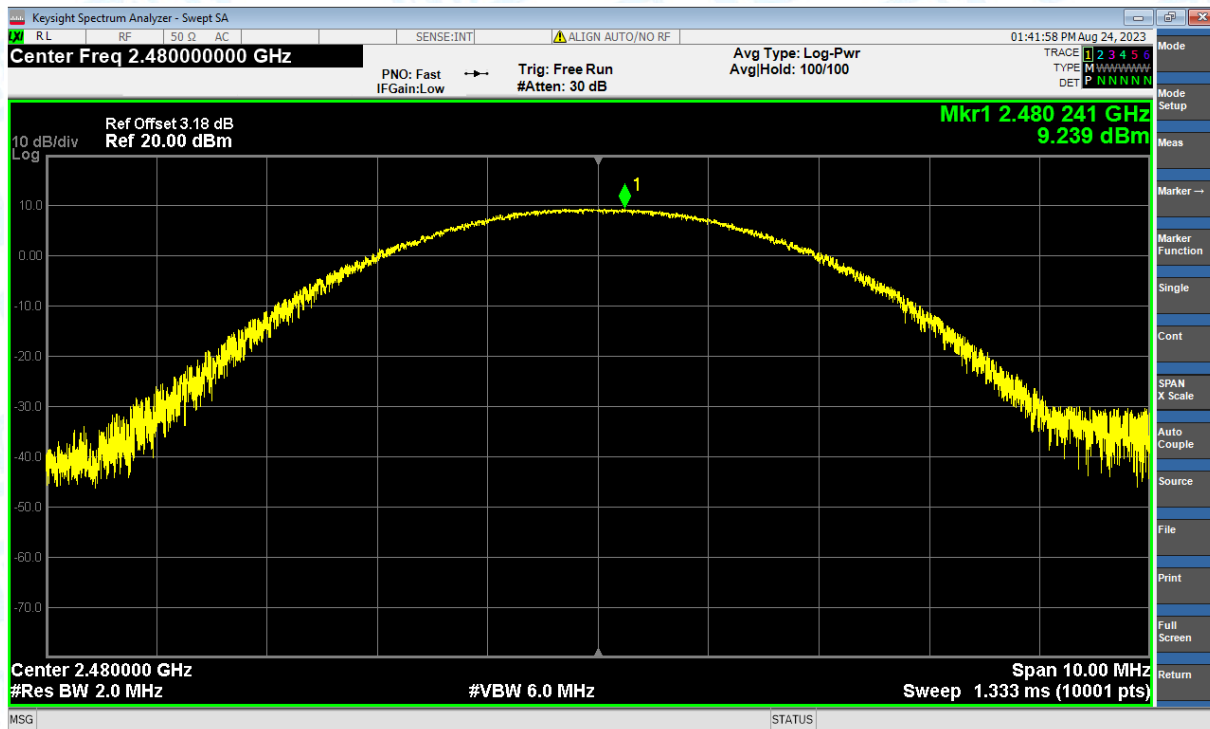
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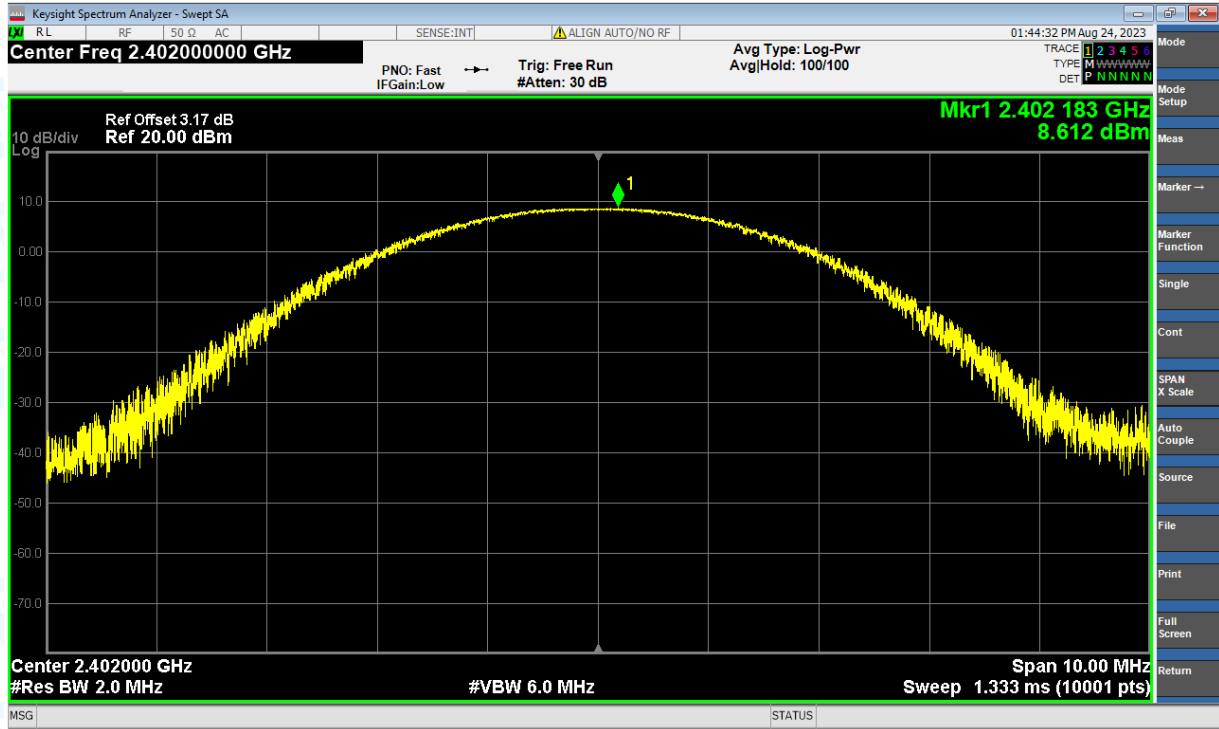
Power NVNT 2-DH1 2441MHz Ant1



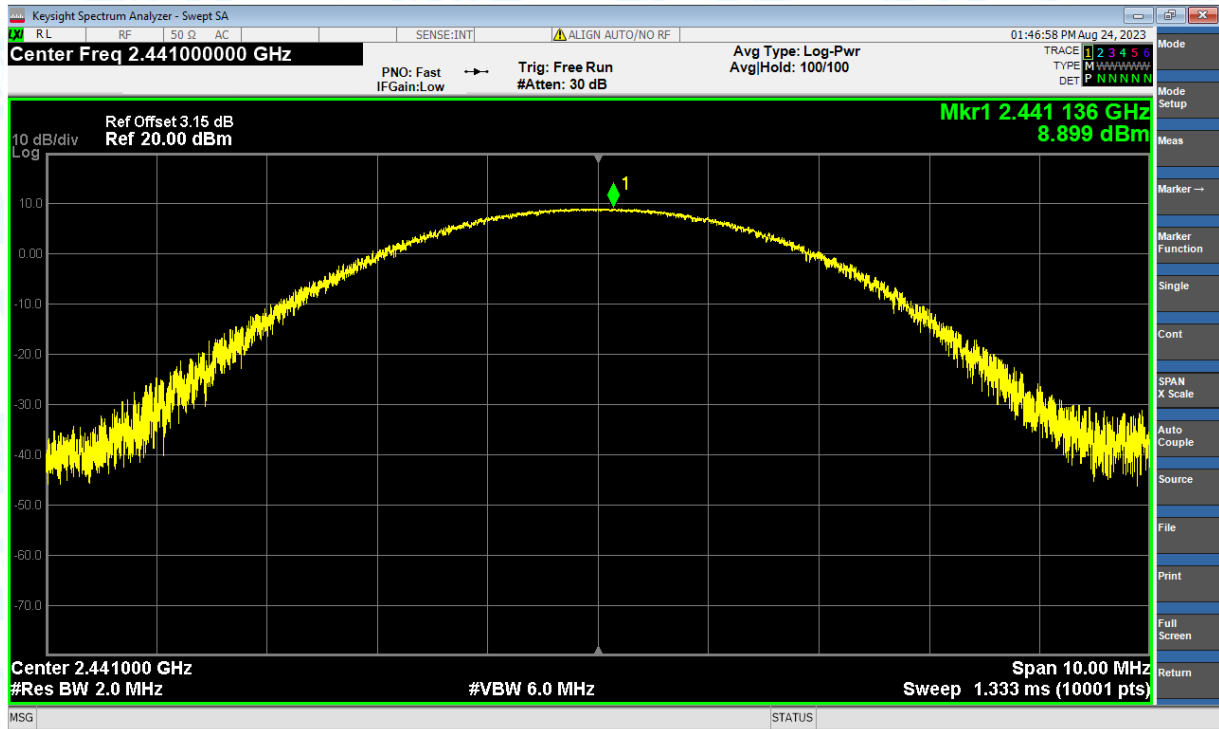
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



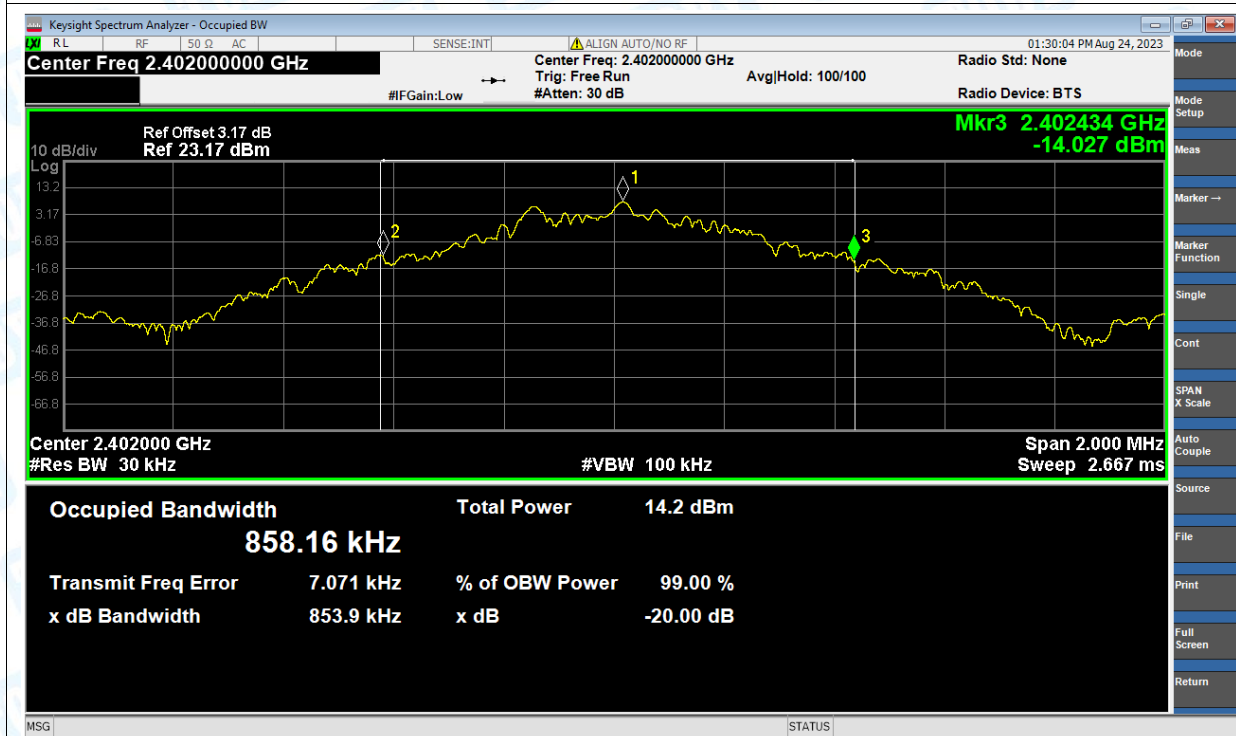


3. -20dB Bandwidth

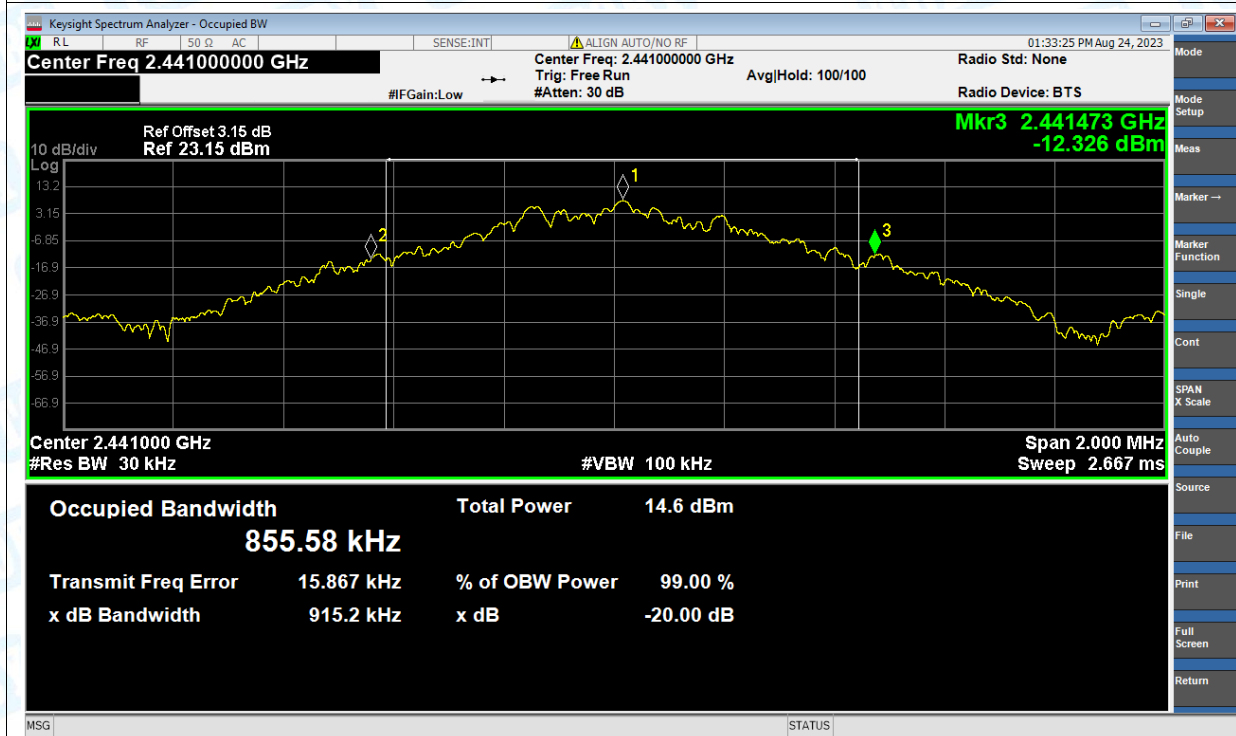
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.85	0	Pass
NVNT	1-DH1	2441	Ant1	0.92	0	Pass
NVNT	1-DH1	2480	Ant1	0.92	0	Pass
NVNT	2-DH1	2402	Ant1	1.23	0	Pass
NVNT	2-DH1	2441	Ant1	1.23	0	Pass
NVNT	2-DH1	2480	Ant1	1.23	0	Pass
NVNT	3-DH1	2402	Ant1	1.26	0	Pass
NVNT	3-DH1	2441	Ant1	1.26	0	Pass
NVNT	3-DH1	2480	Ant1	1.24	0	Pass

Test Graphs

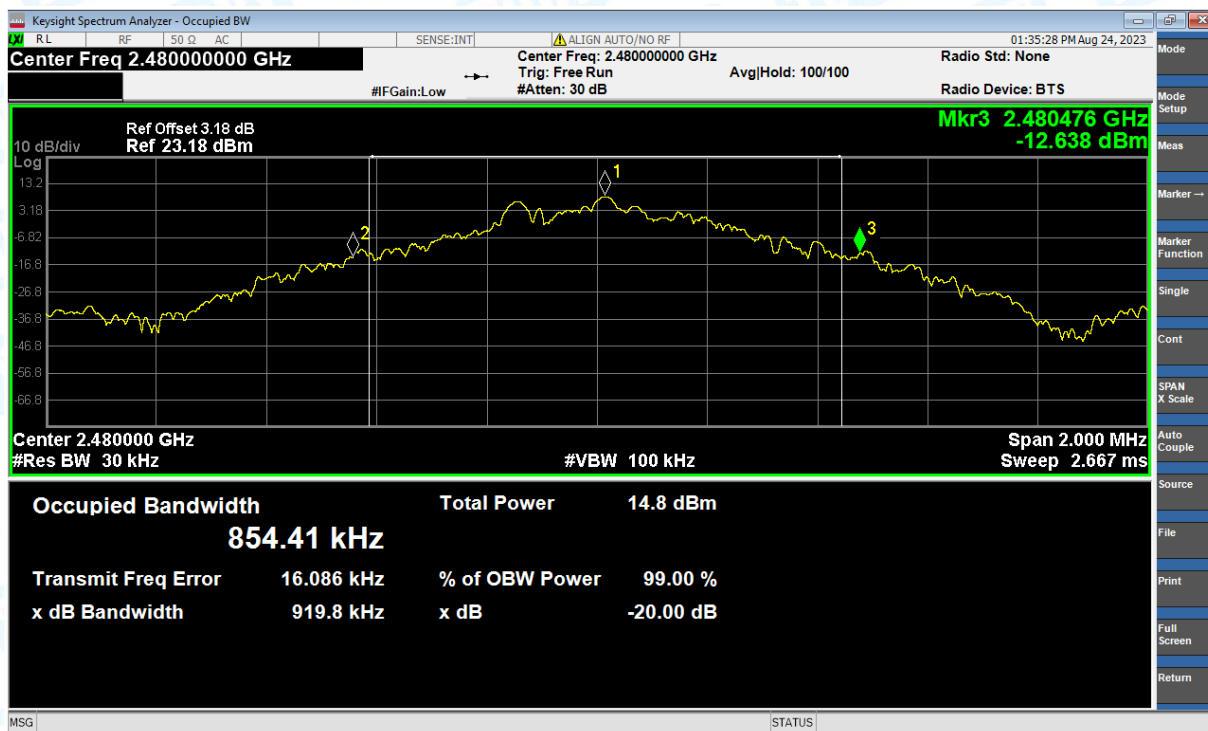
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



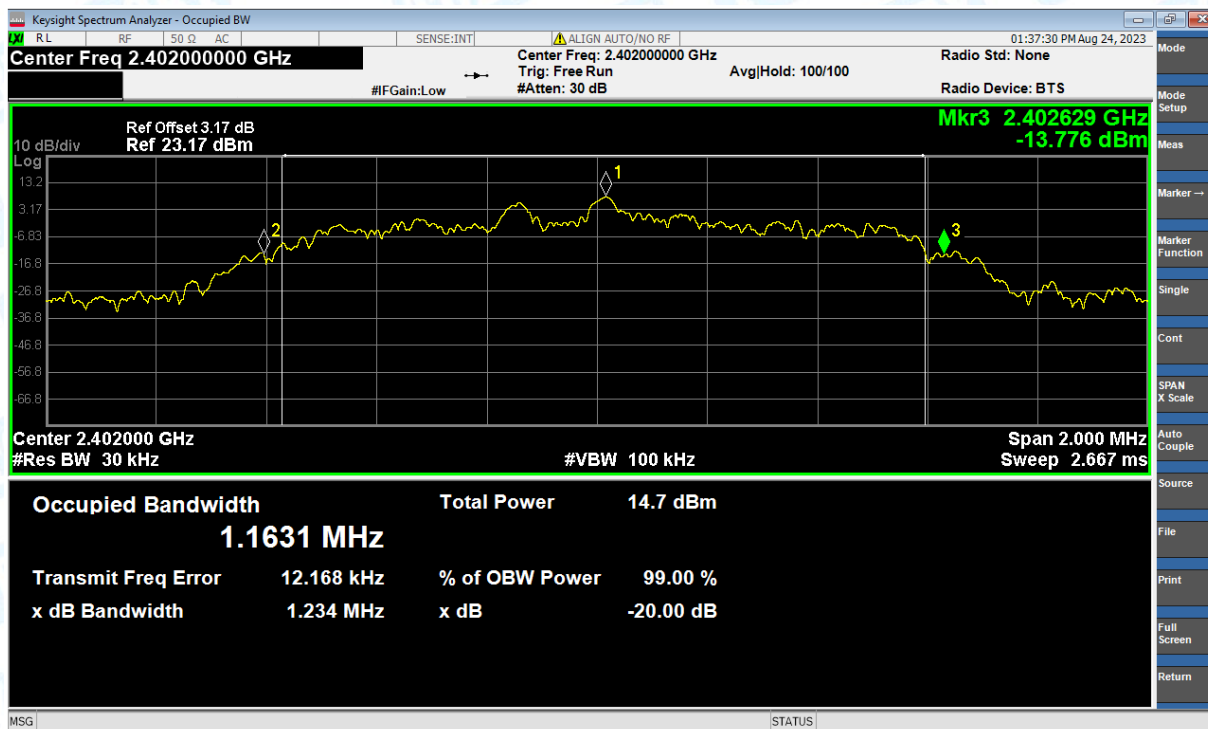
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



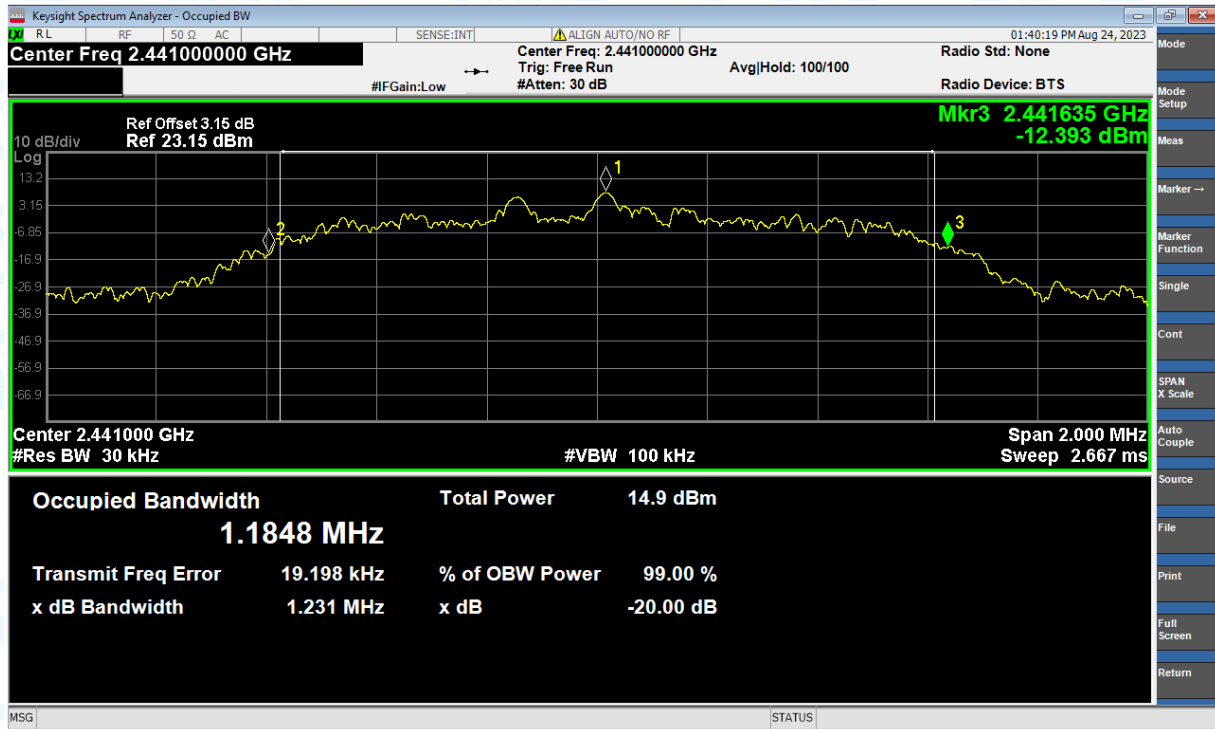
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



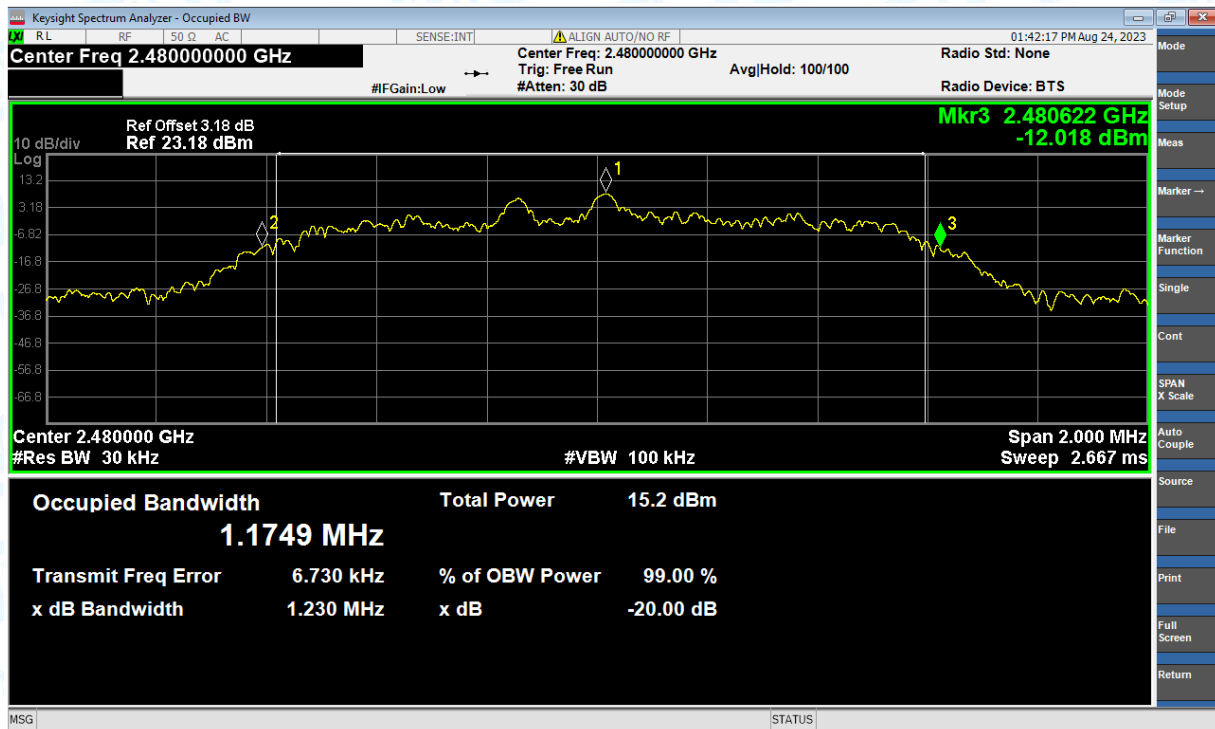
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



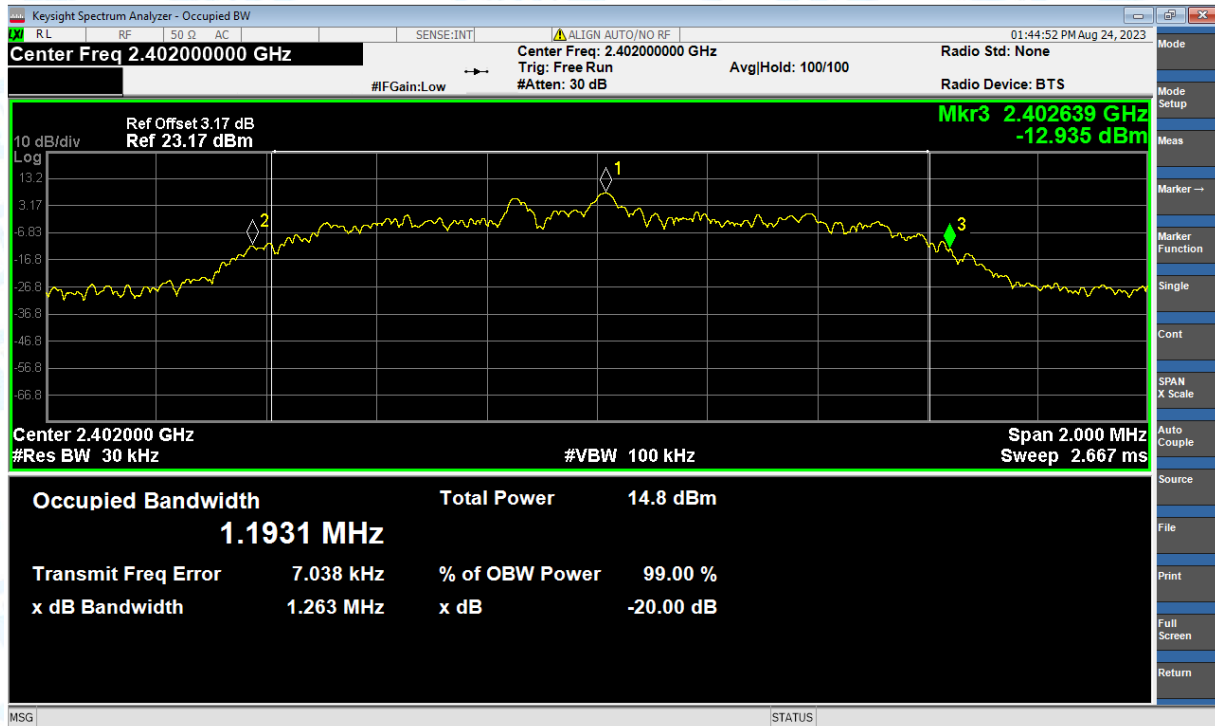
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



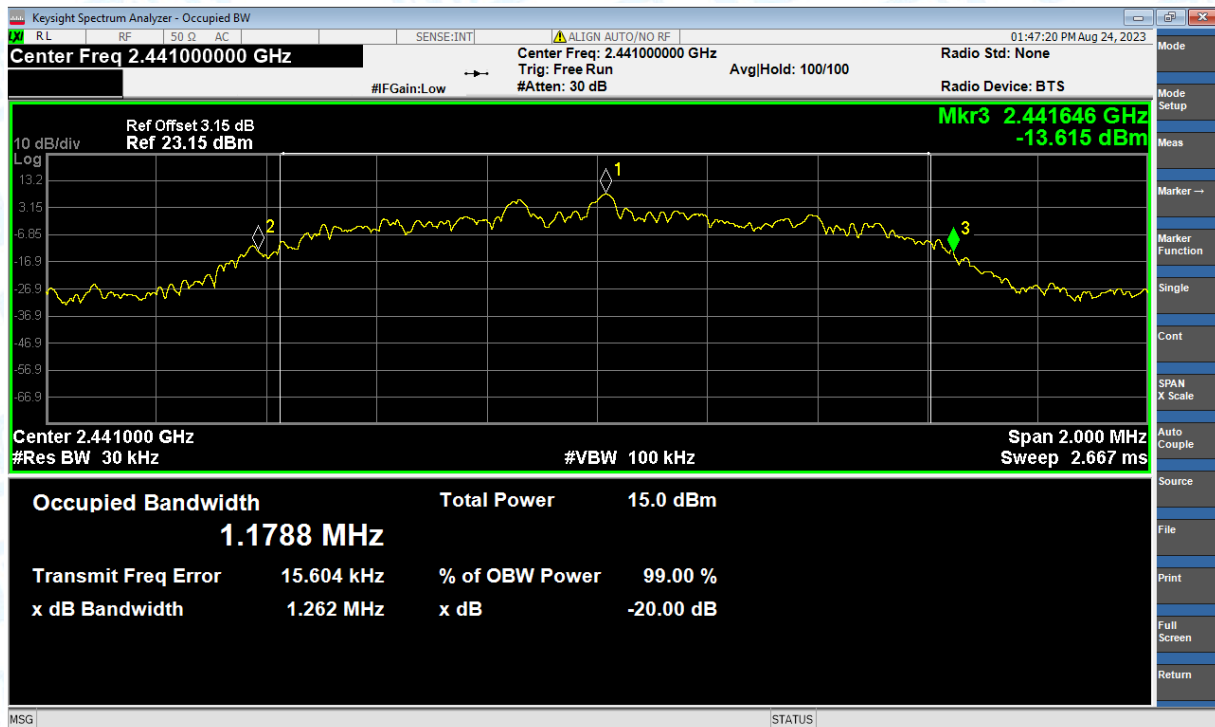
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

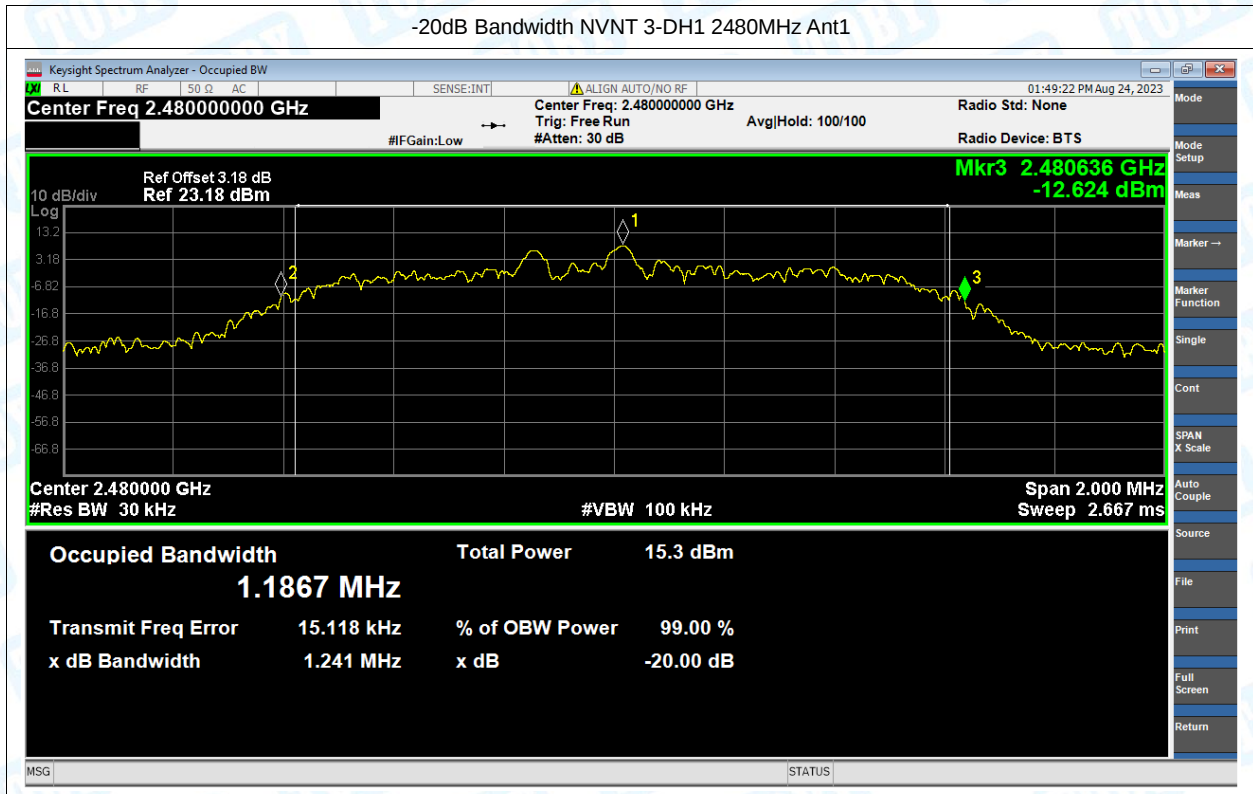


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



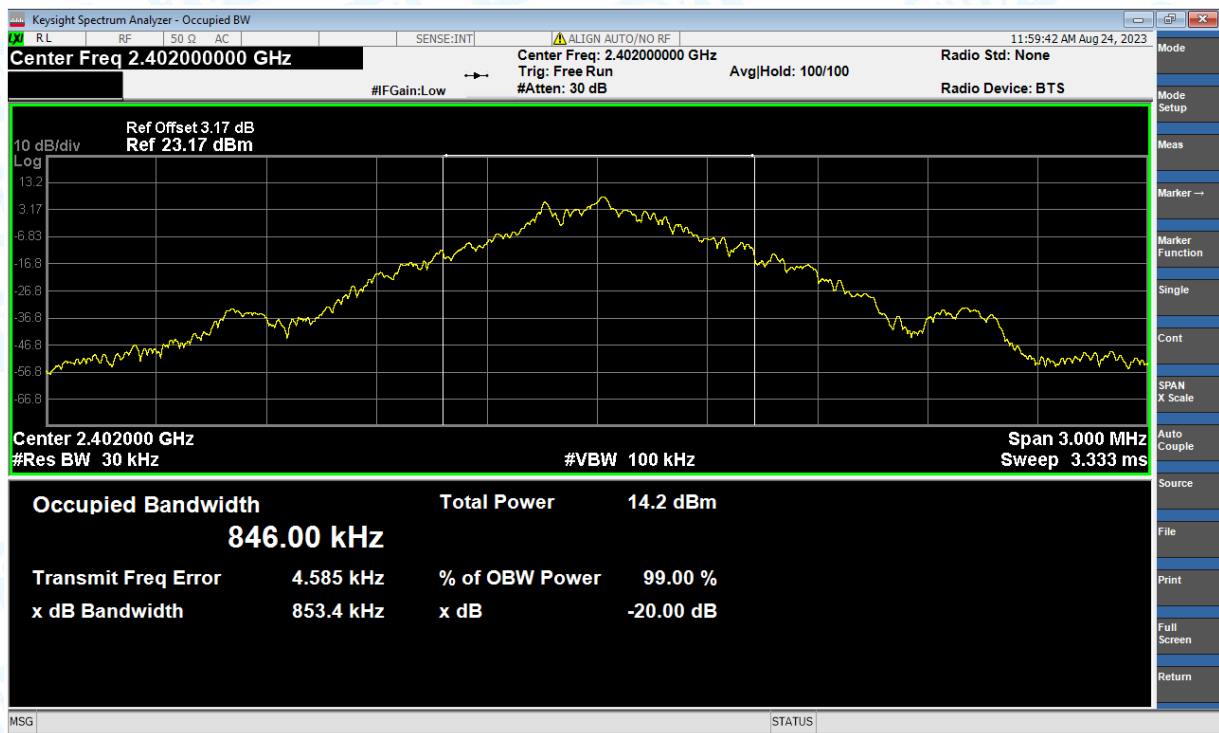


4. Occupied Channel Bandwidth

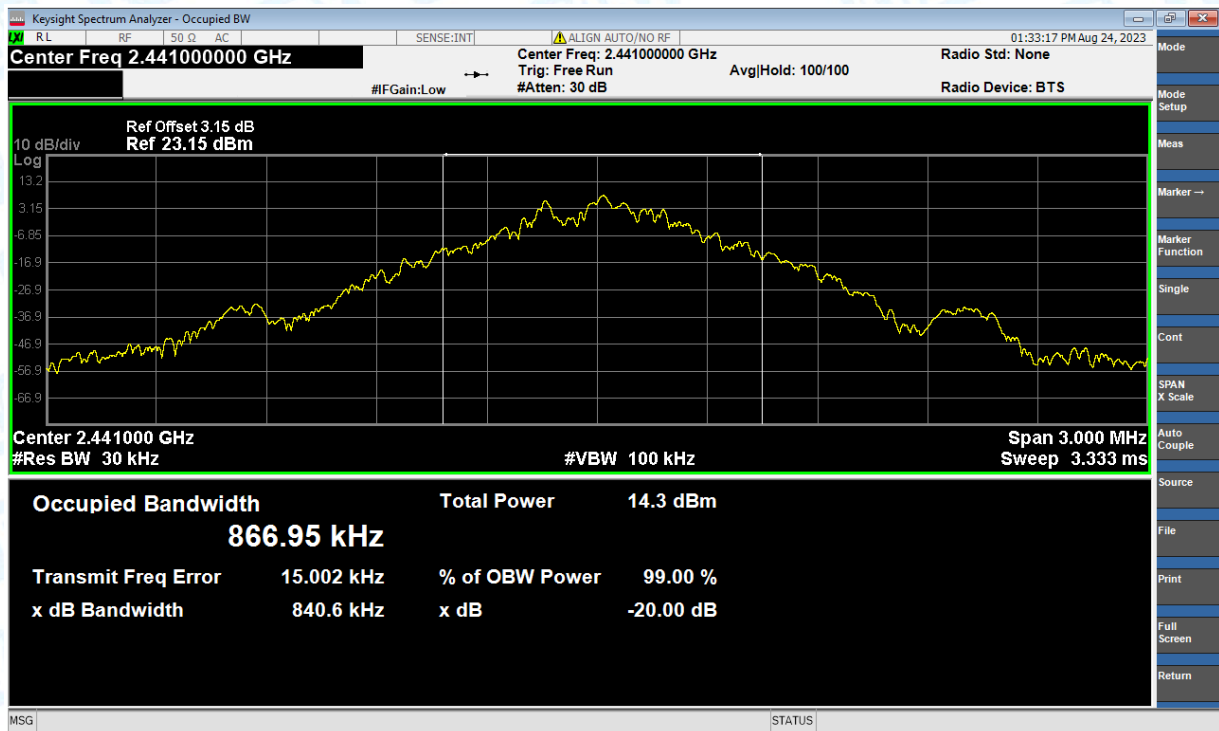
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.846
NVNT	1-DH1	2441	Ant1	0.867
NVNT	1-DH1	2480	Ant1	0.893
NVNT	2-DH1	2402	Ant1	1.2
NVNT	2-DH1	2441	Ant1	1.183
NVNT	2-DH1	2480	Ant1	1.19
NVNT	3-DH1	2402	Ant1	1.22
NVNT	3-DH1	2441	Ant1	1.213
NVNT	3-DH1	2480	Ant1	1.222

Test Graphs

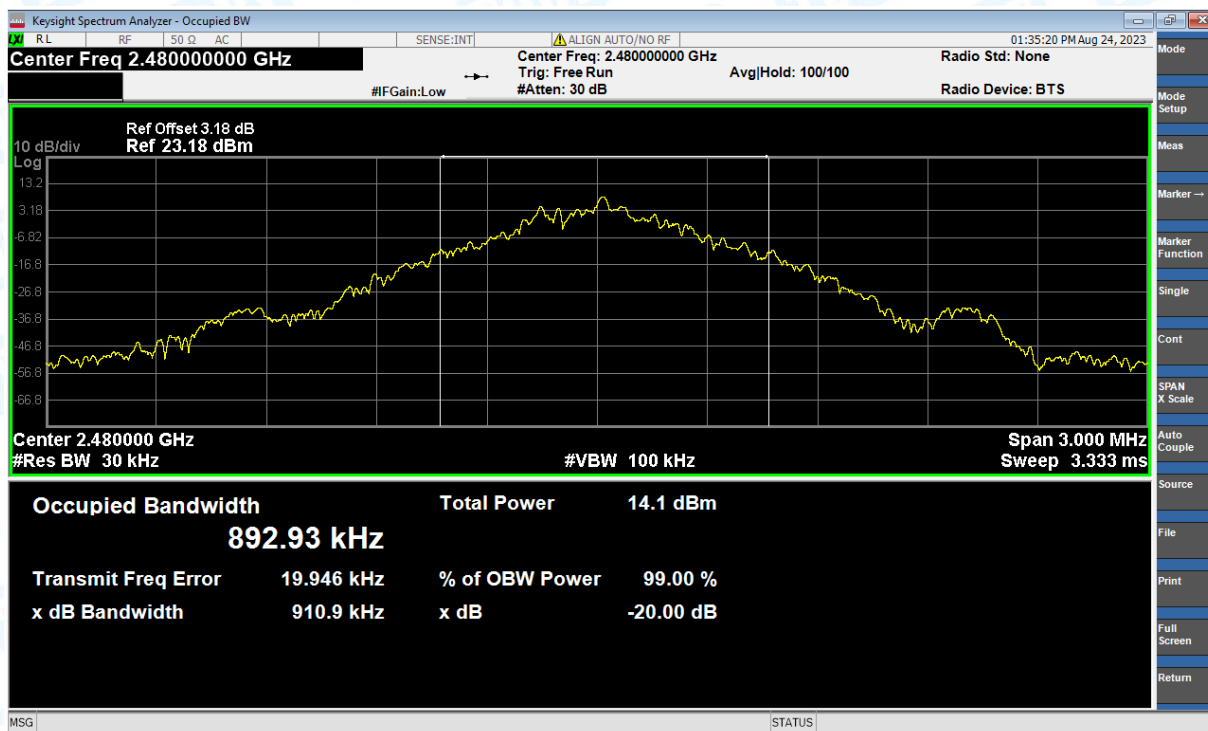
OBW NVNT 1-DH1 2402MHz Ant1



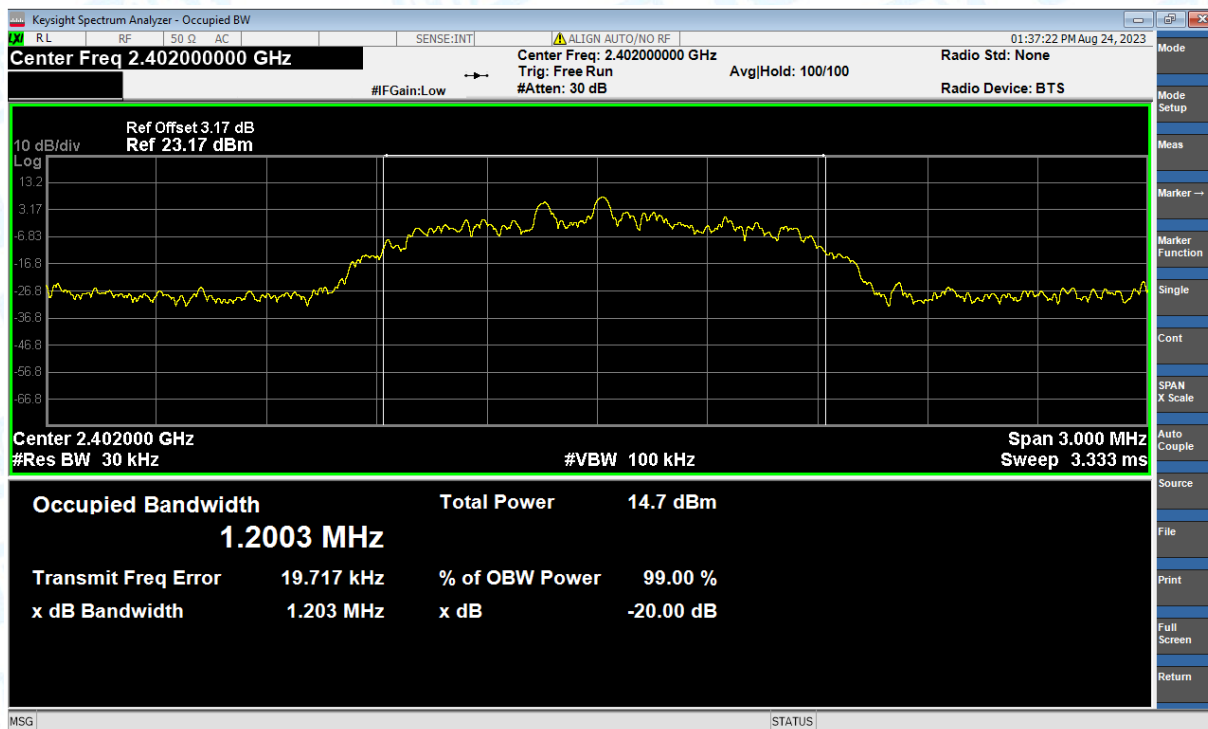
OBW NVNT 1-DH1 2441MHz Ant1



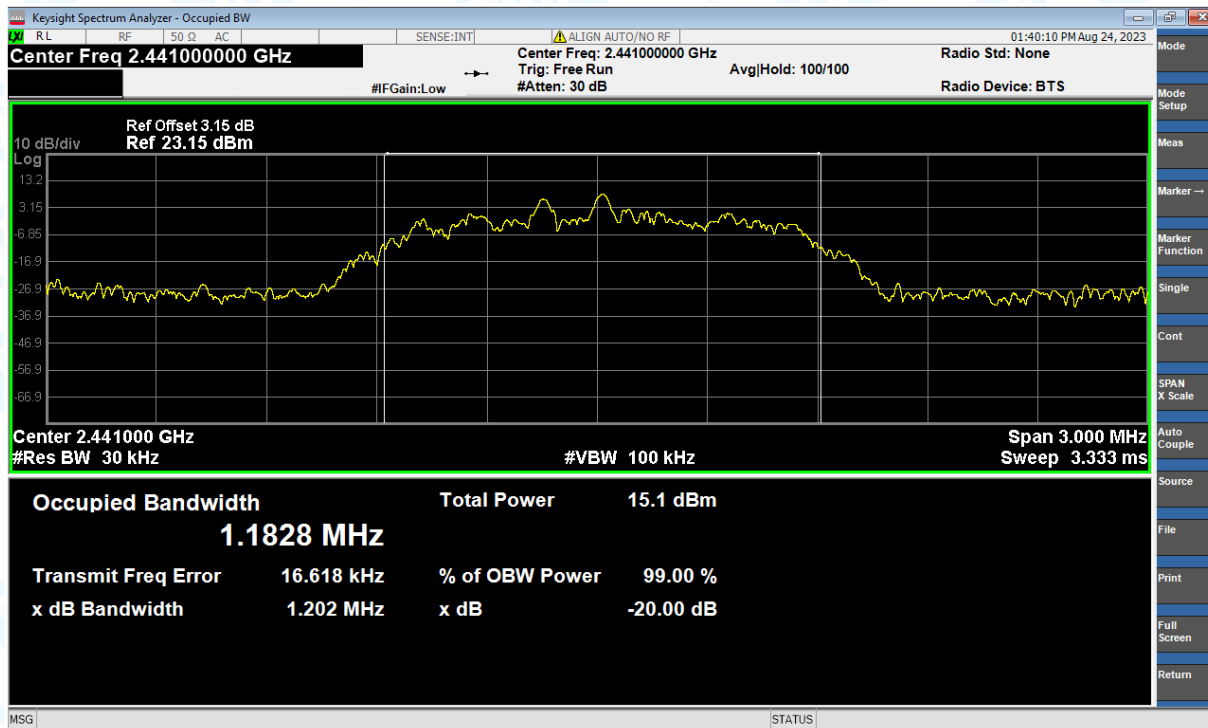
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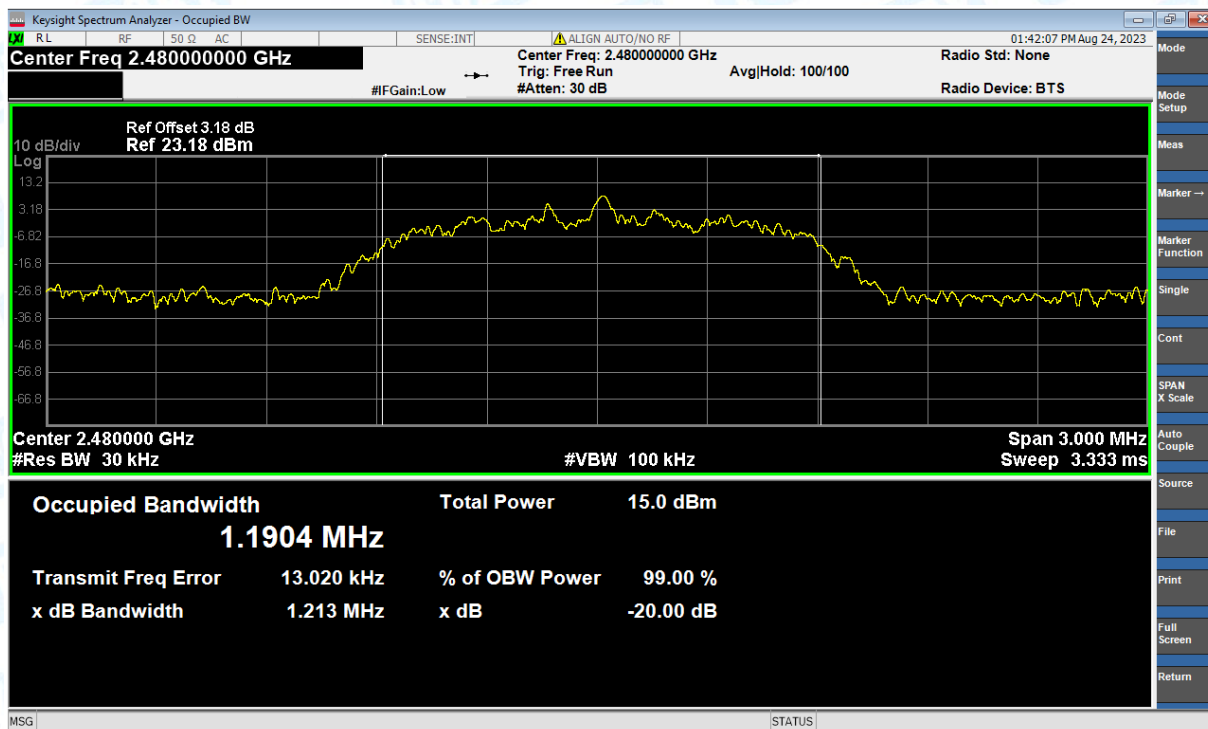
OBW NVNT 2-DH1 2402MHz Ant1



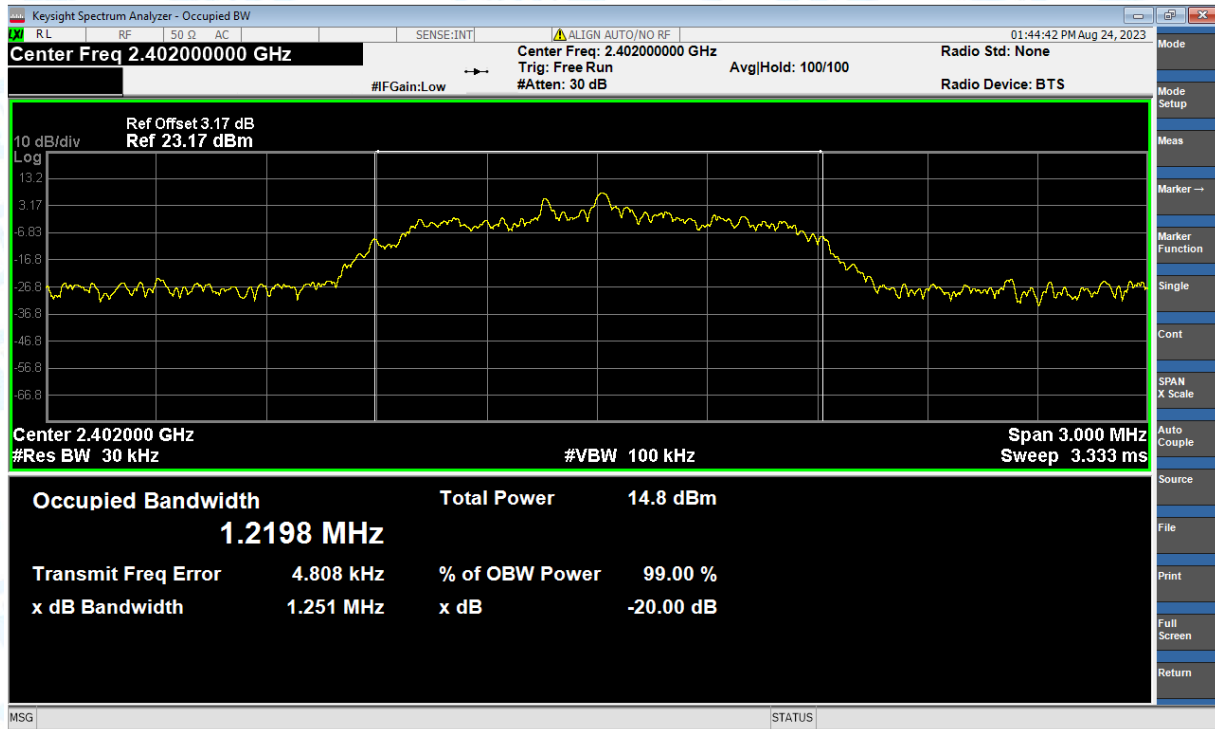
OBW NVNT 2-DH1 2441MHz Ant1



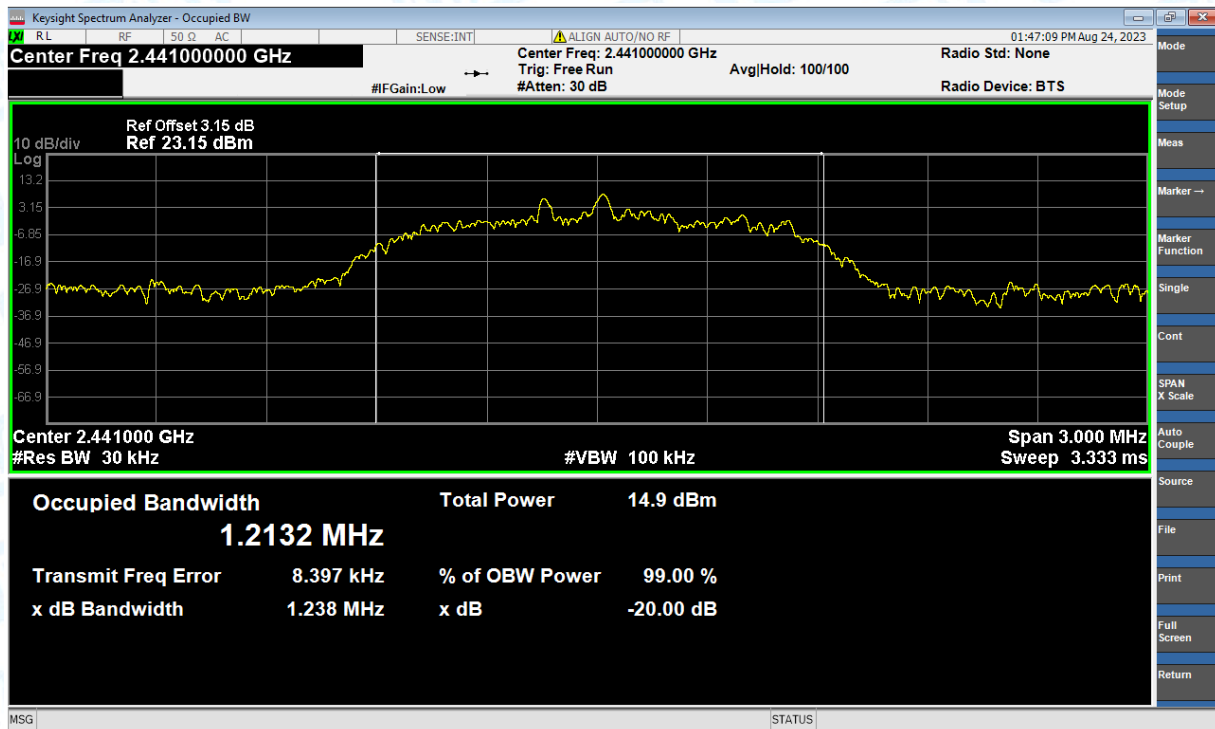
OBW NVNT 2-DH1 2480MHz Ant1

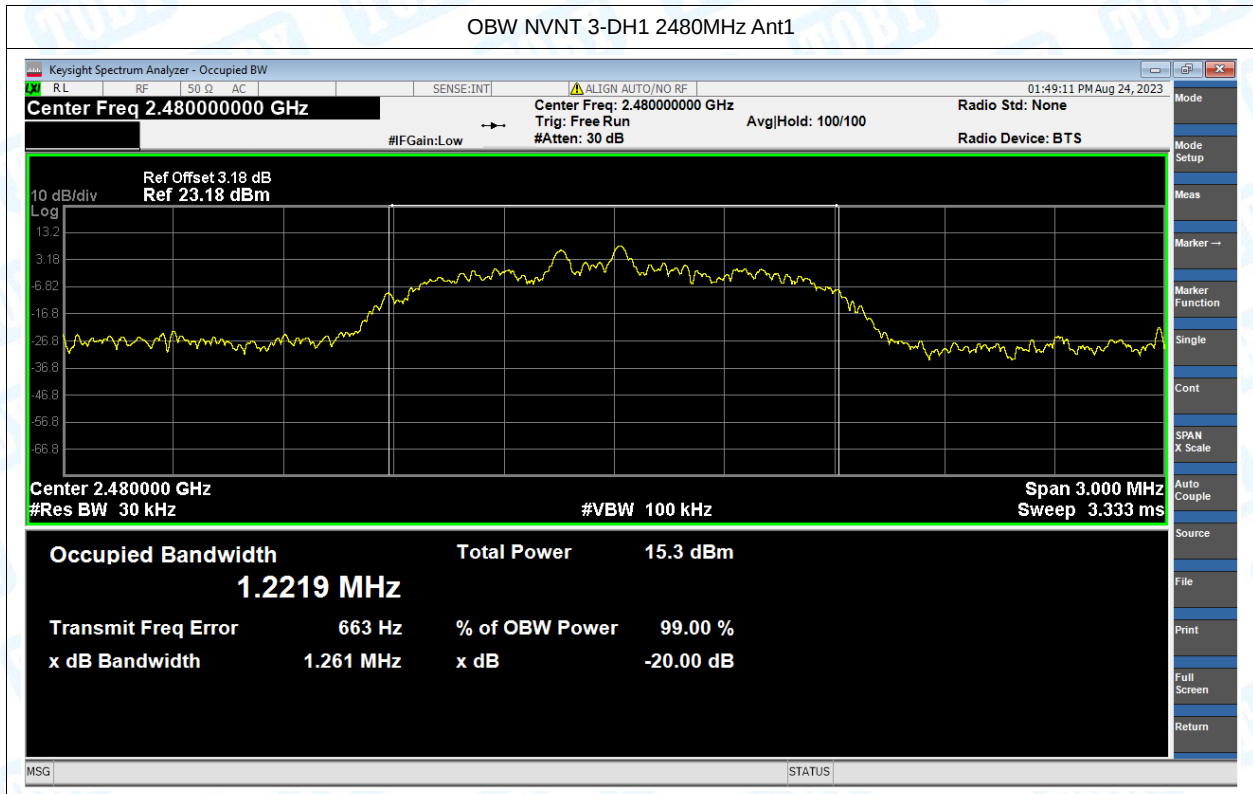


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



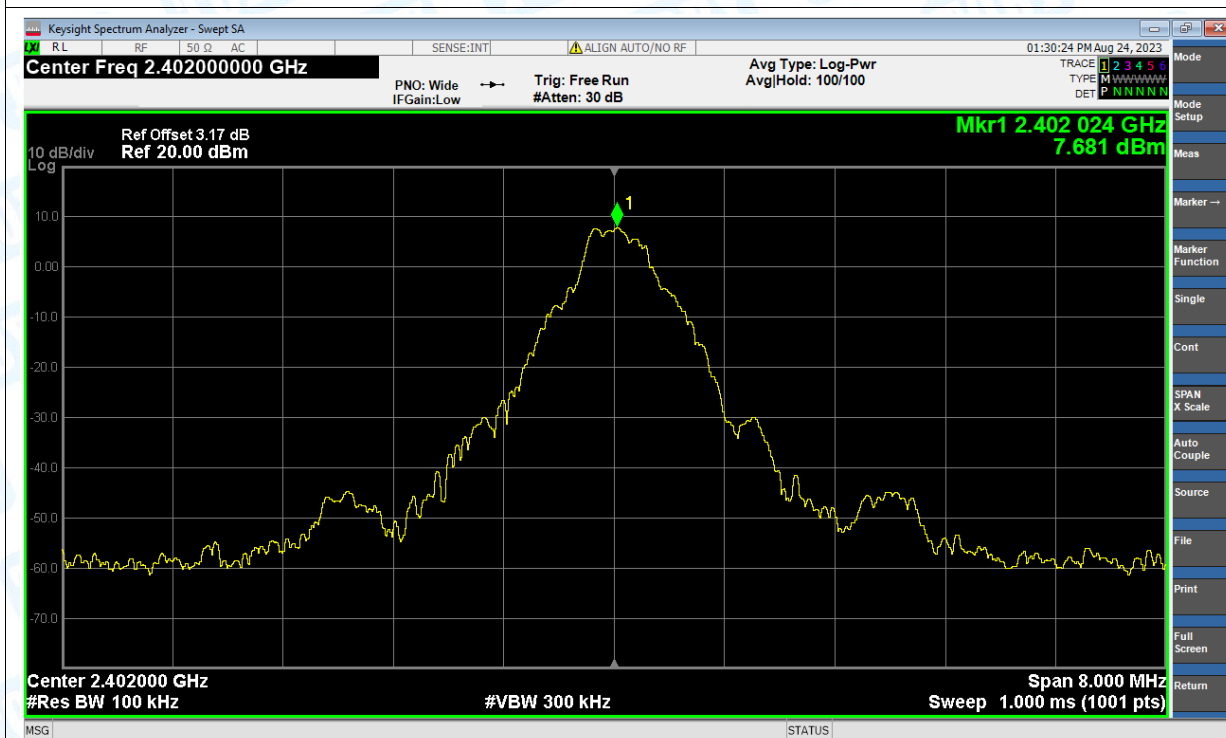


5. Band Edge

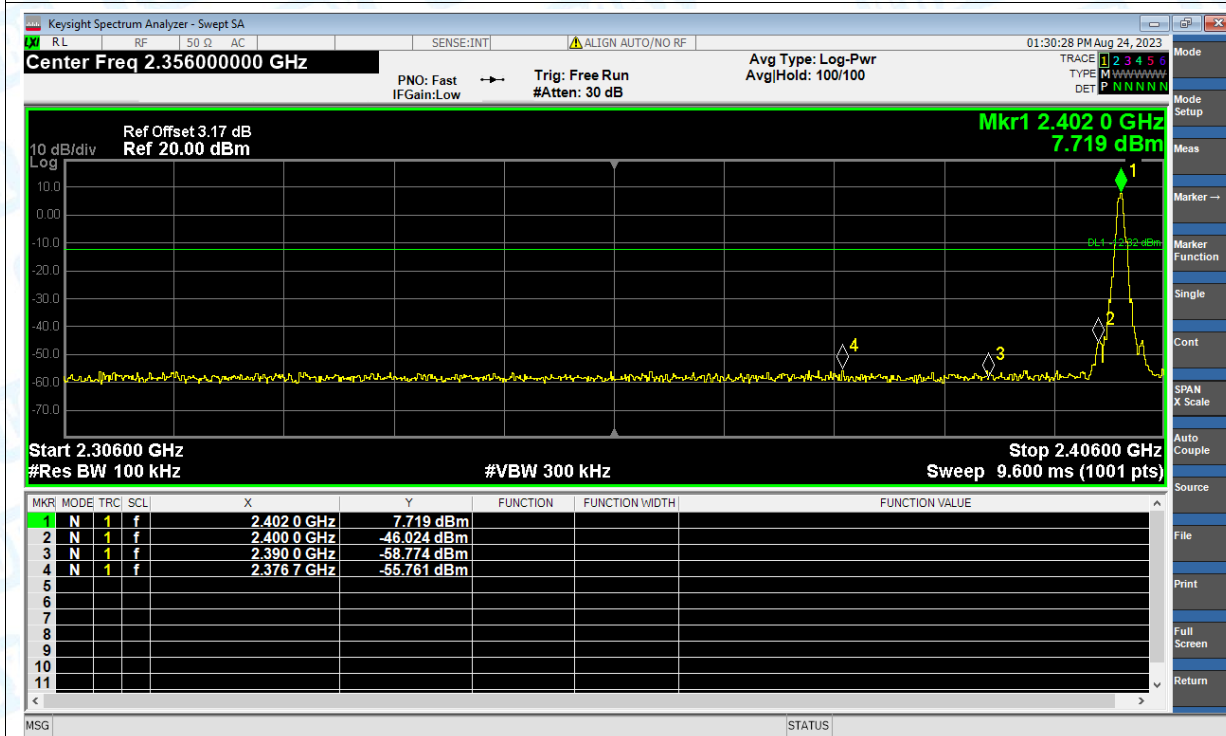
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-63.44	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-63.22	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-60.59	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.6	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-60.84	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-54.27	-20	Pass

Test Graphs

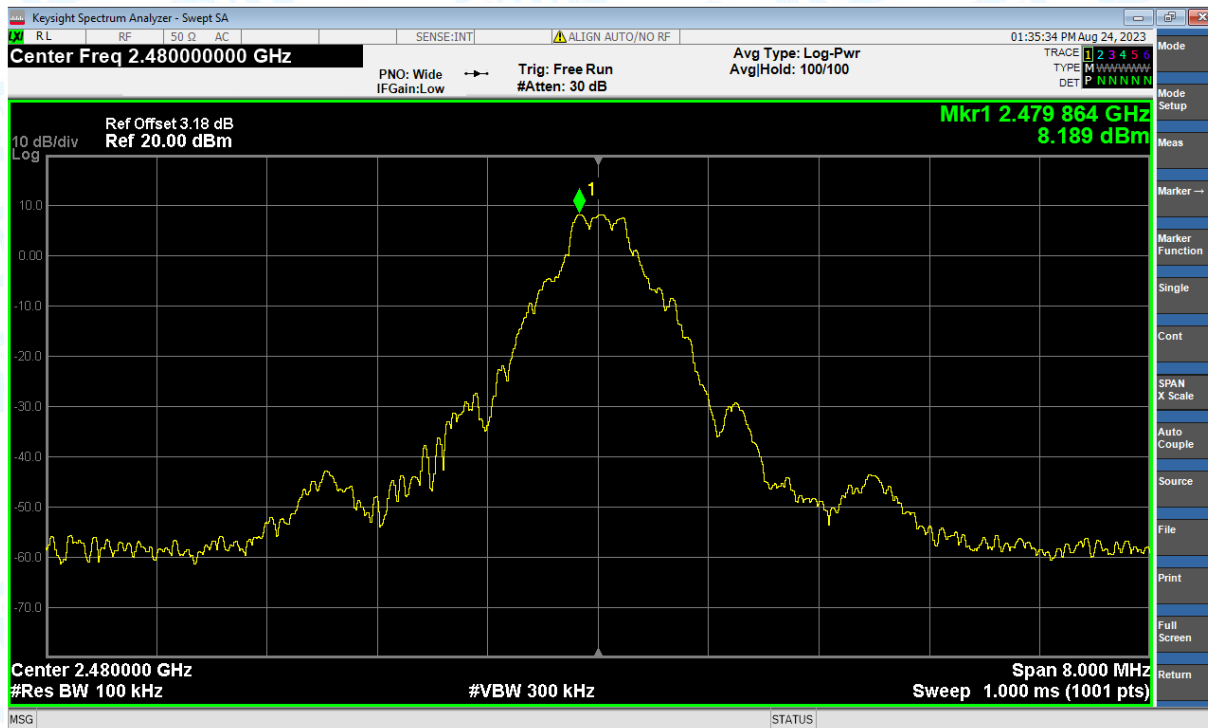
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



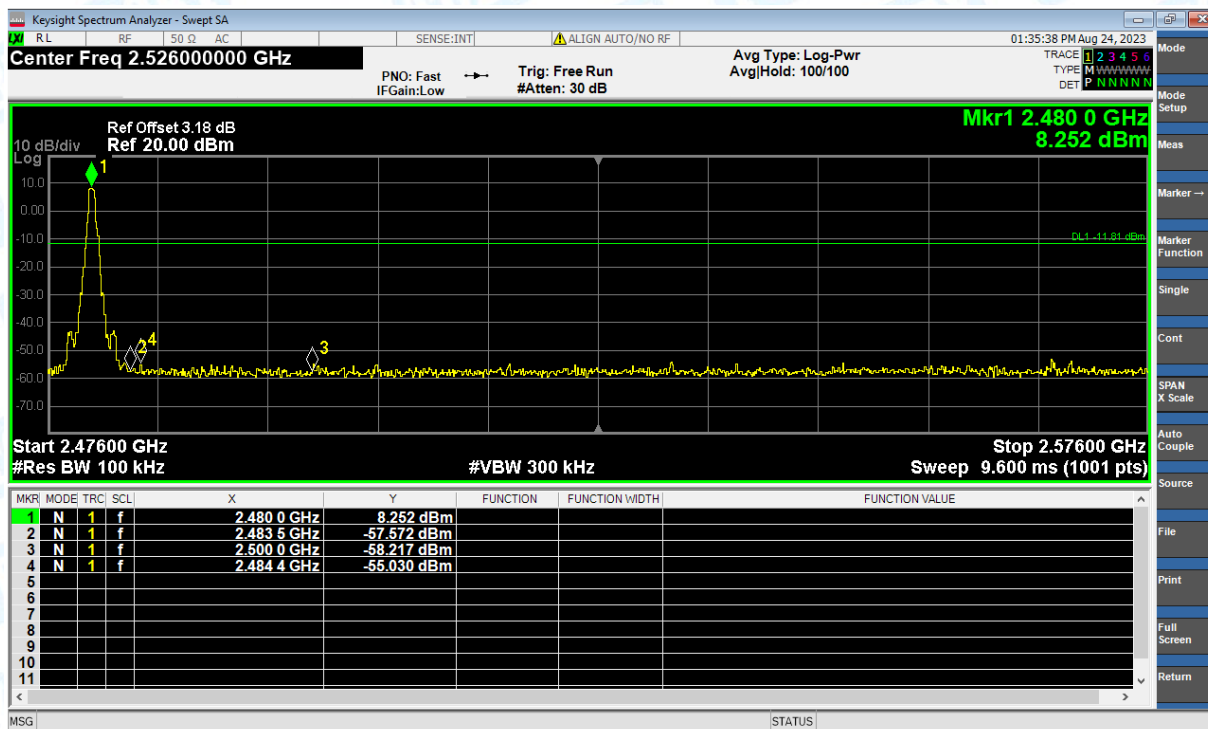
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



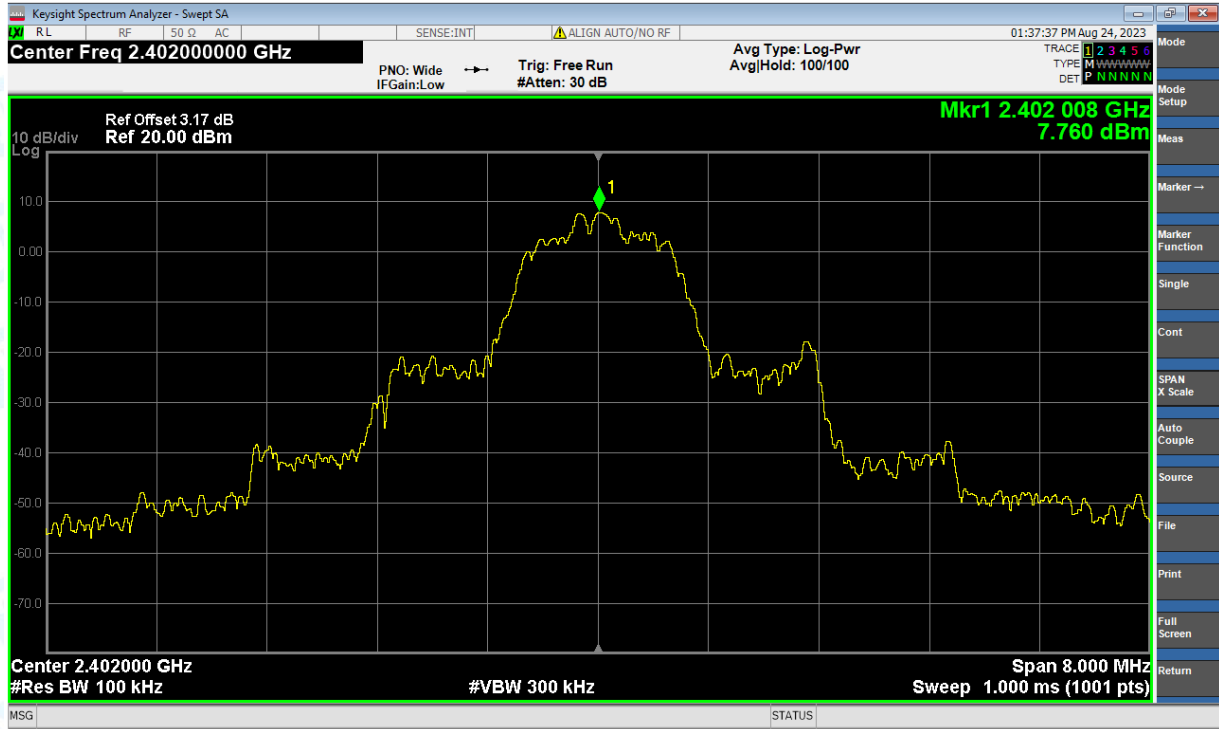
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



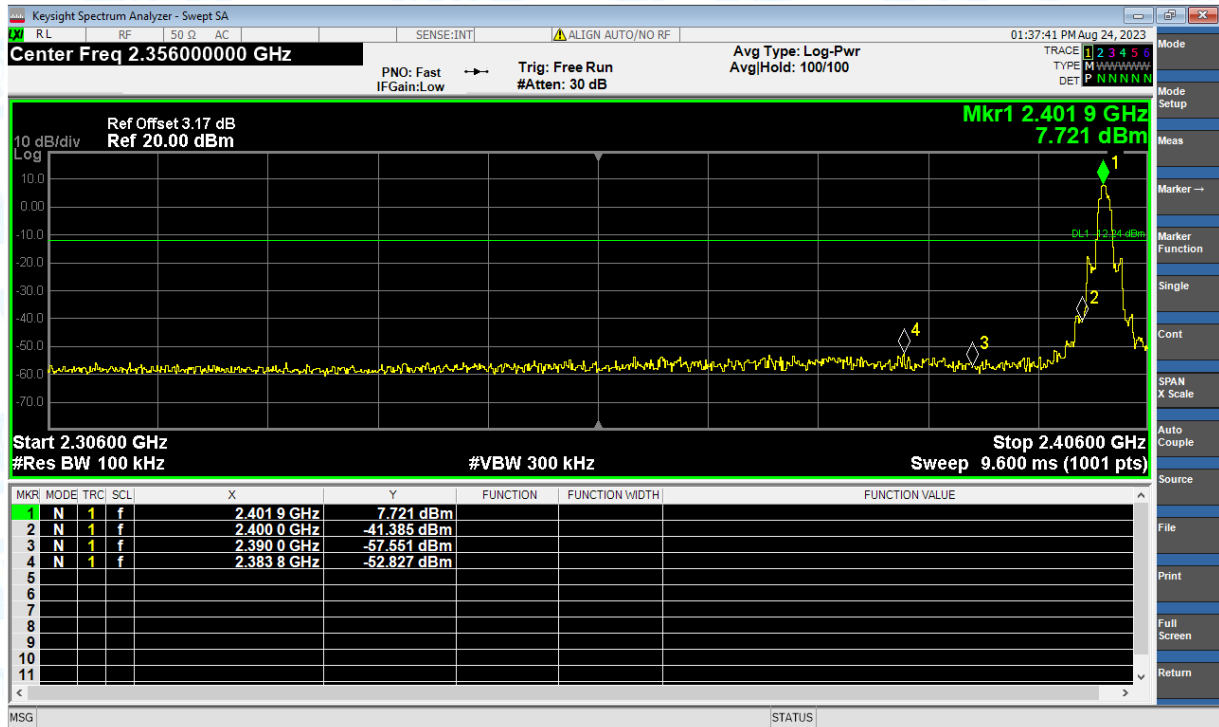
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



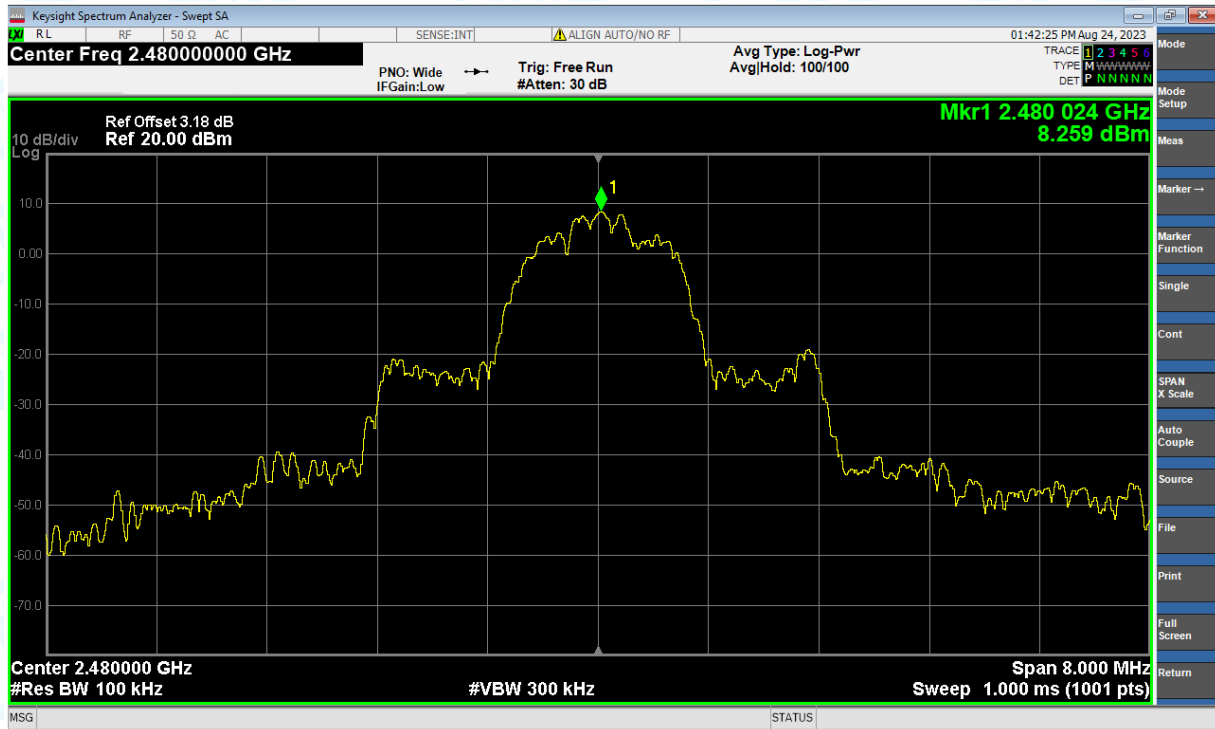
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



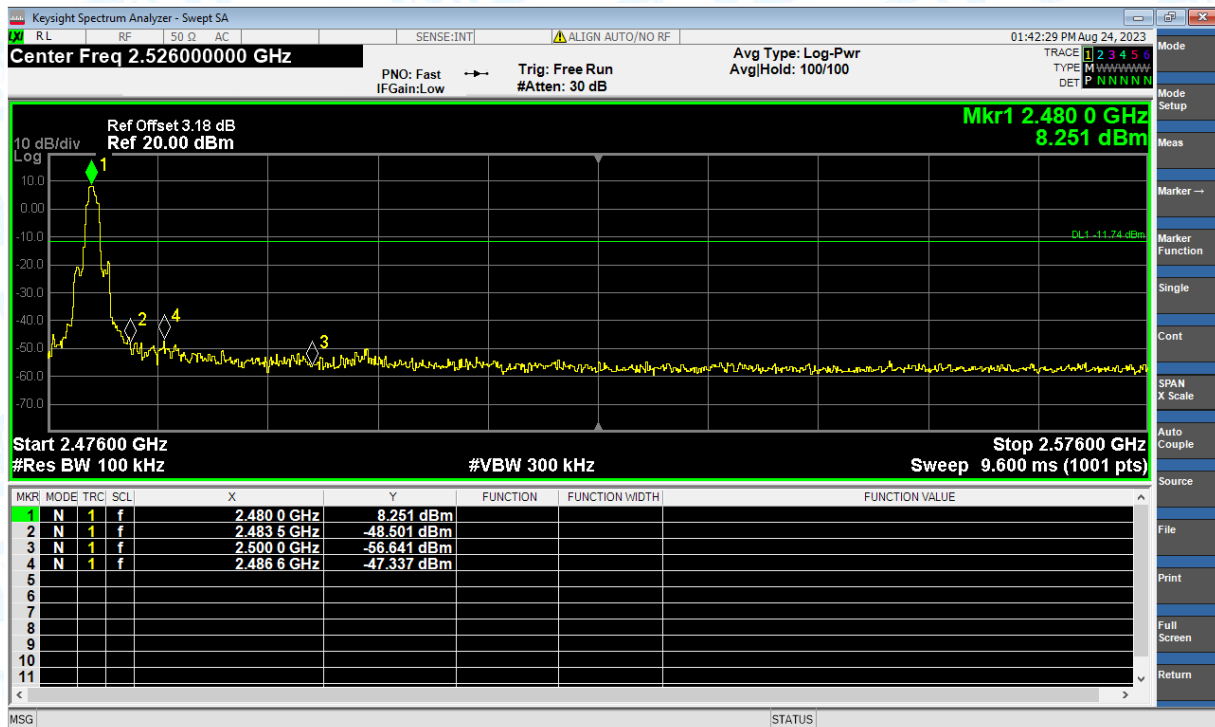
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



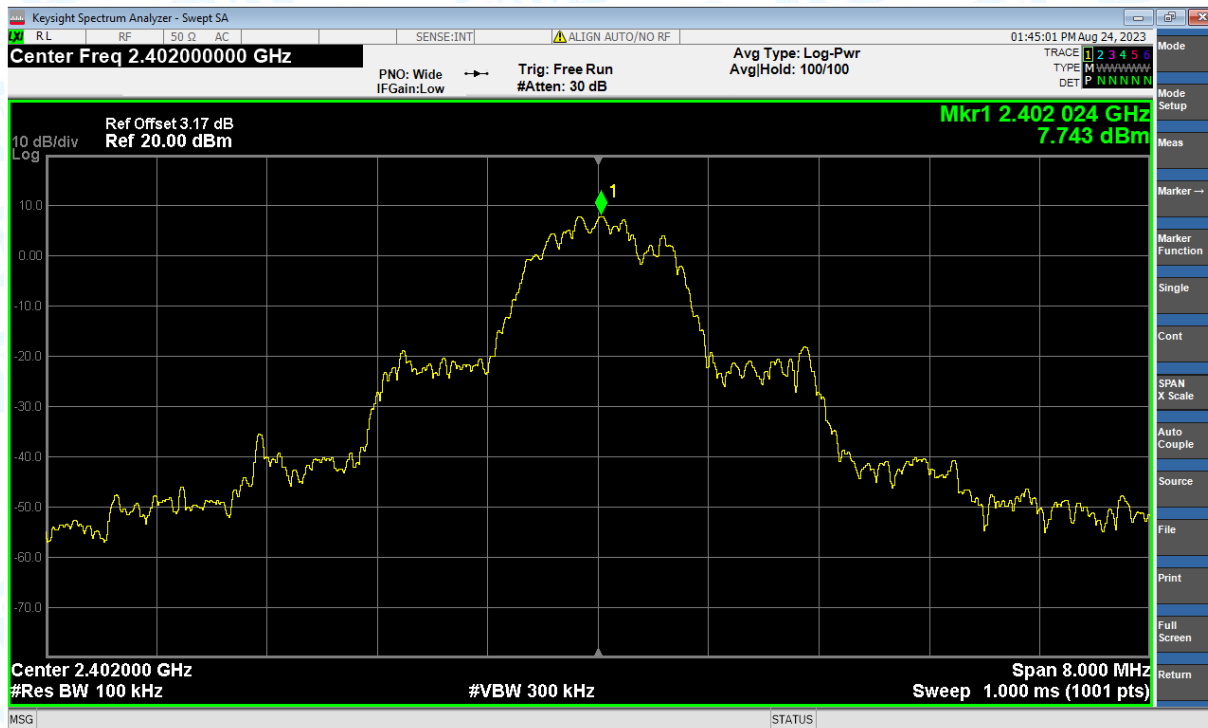
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



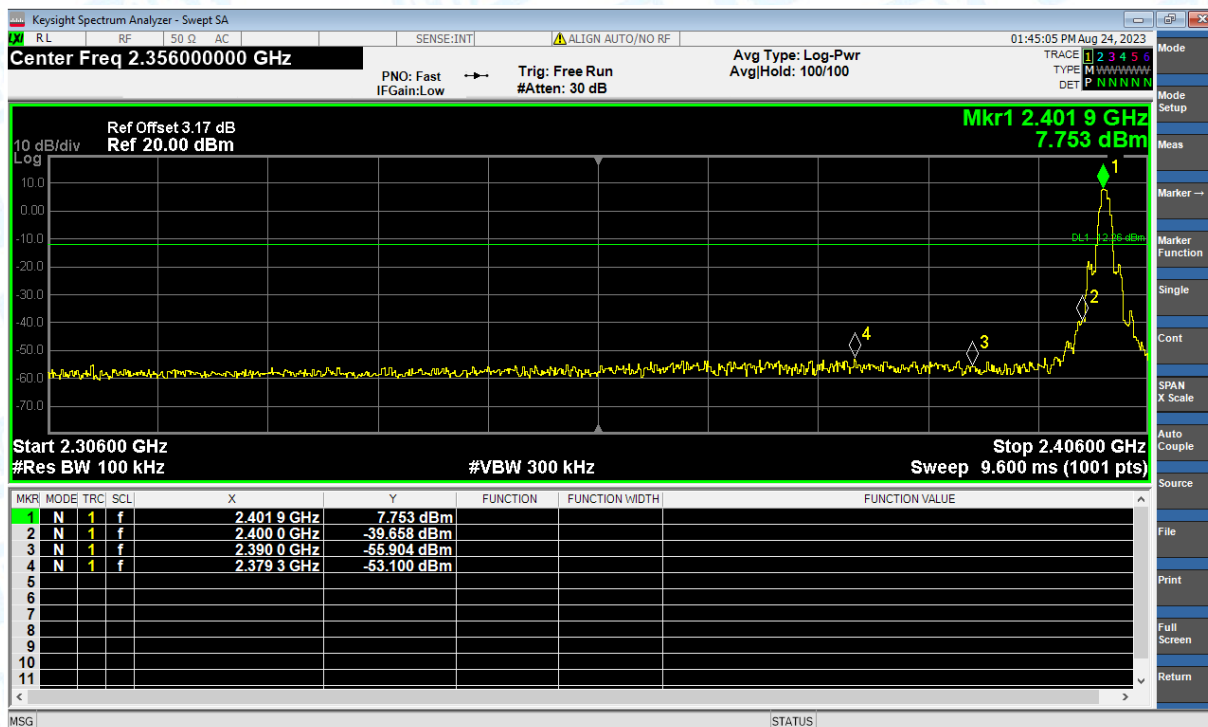
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



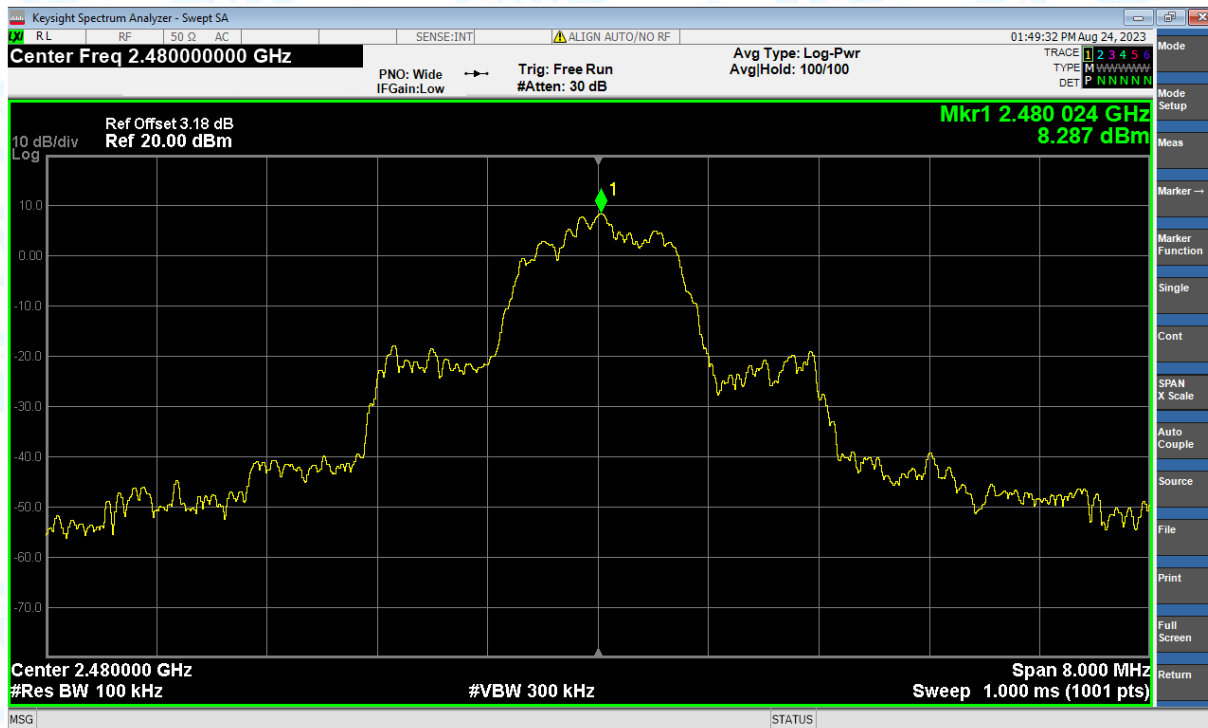
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



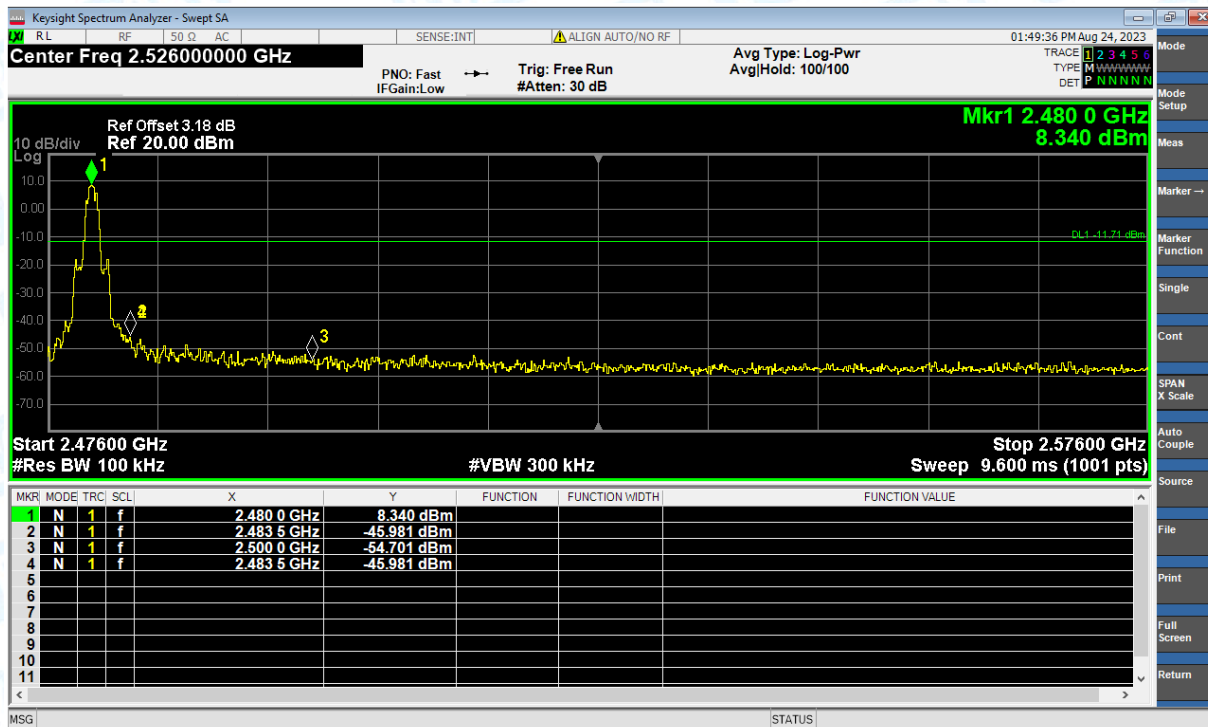
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

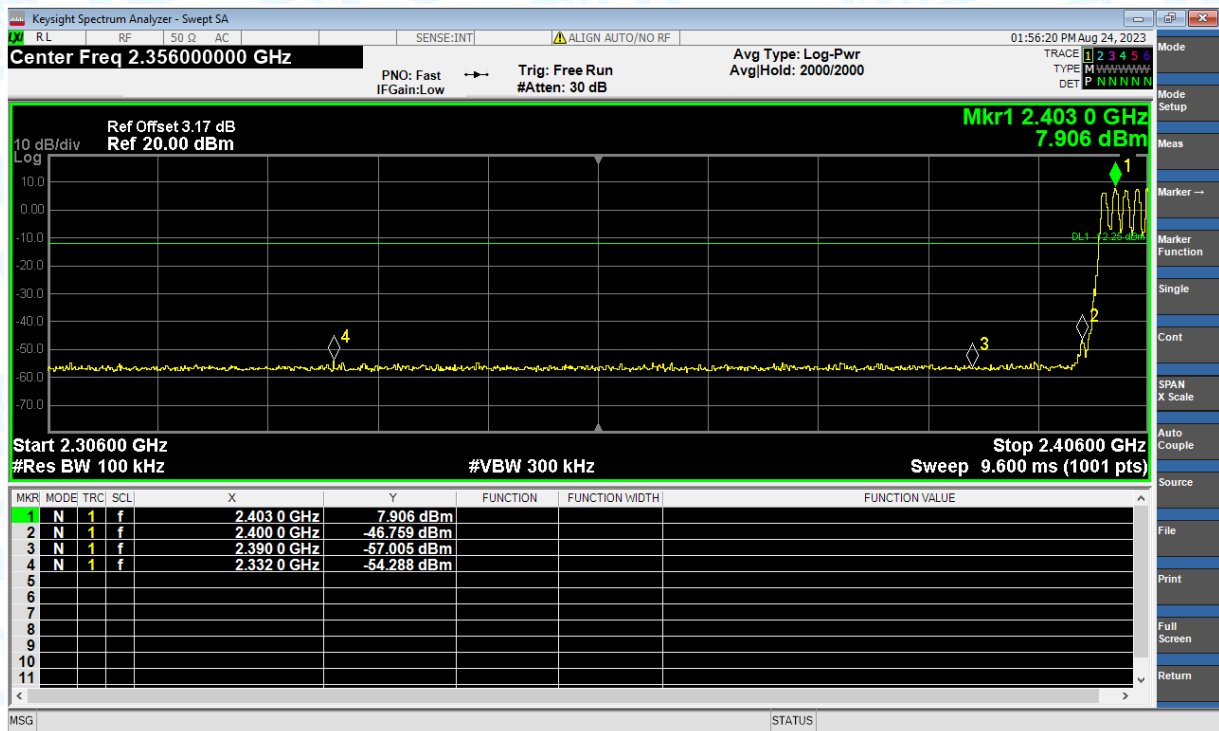
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-62.04	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-61.69	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-59.09	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.34	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-60.25	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-53.91	-20	Pass

Test Graphs

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



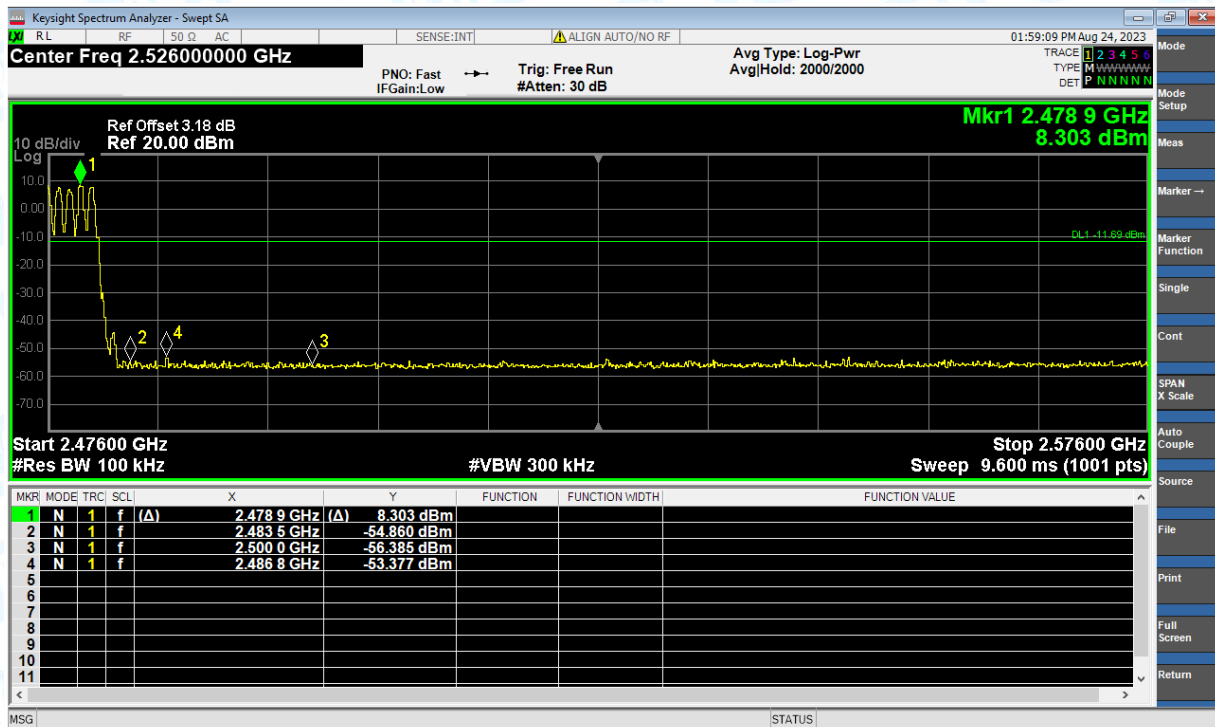
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



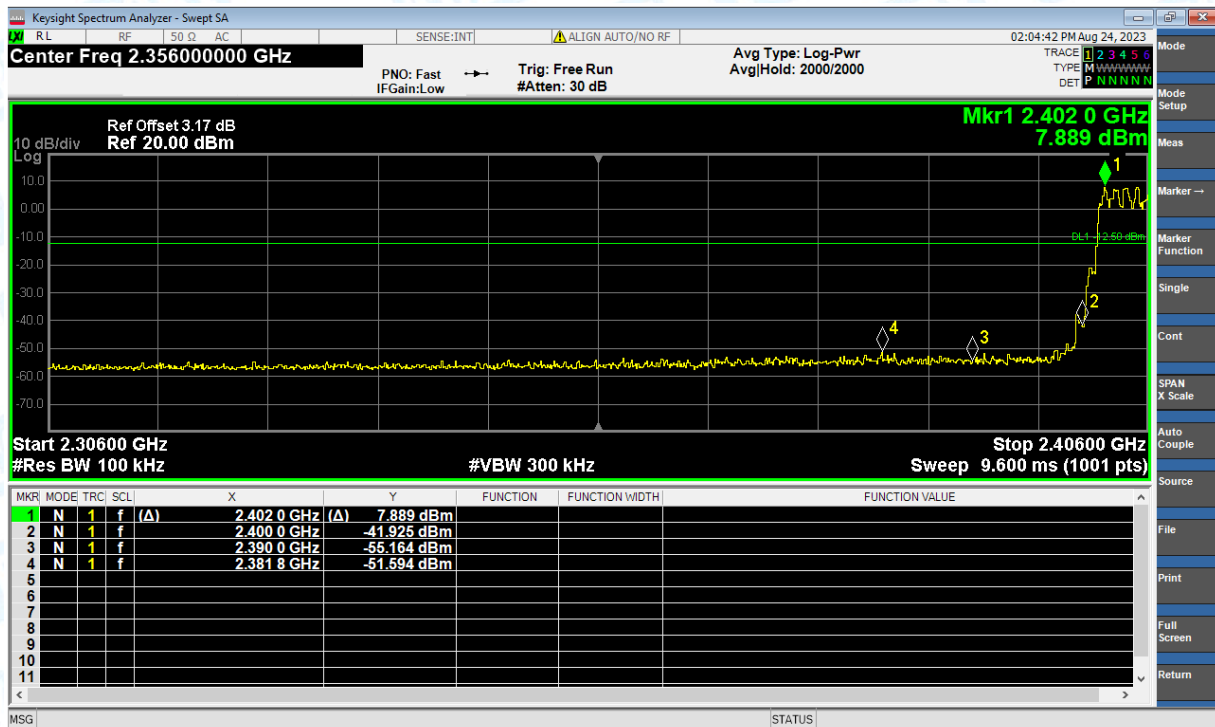
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



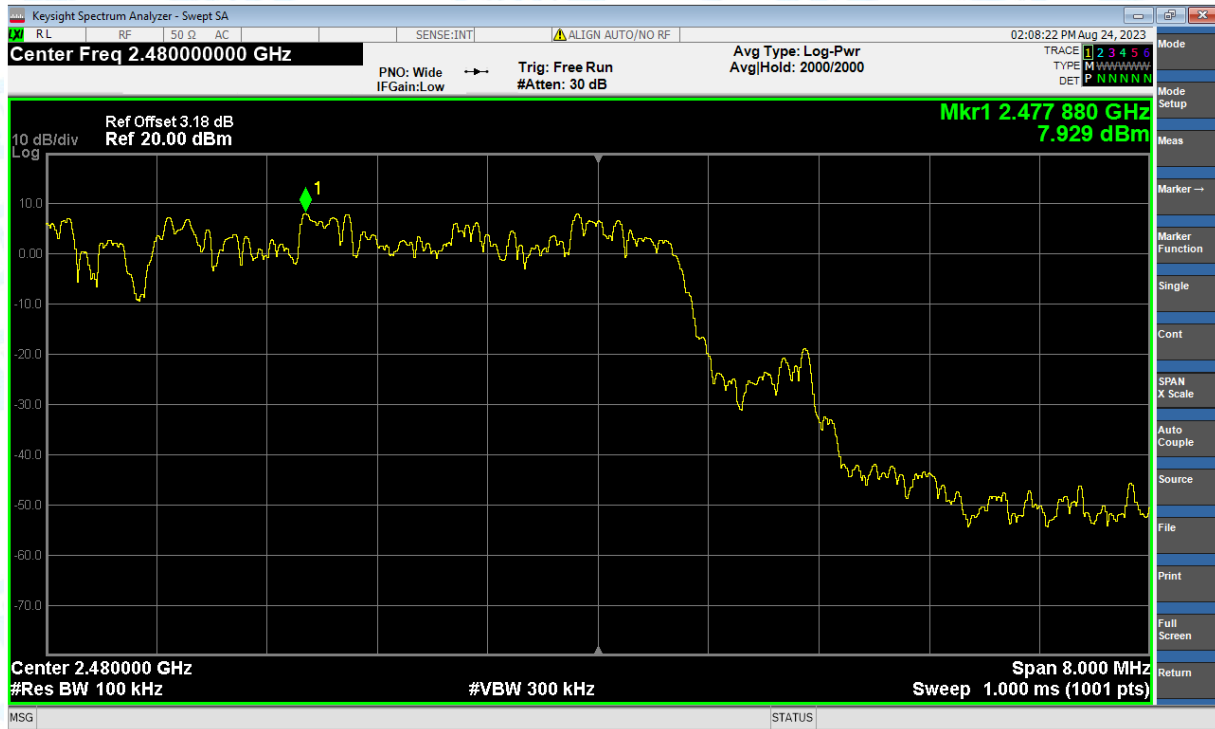
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



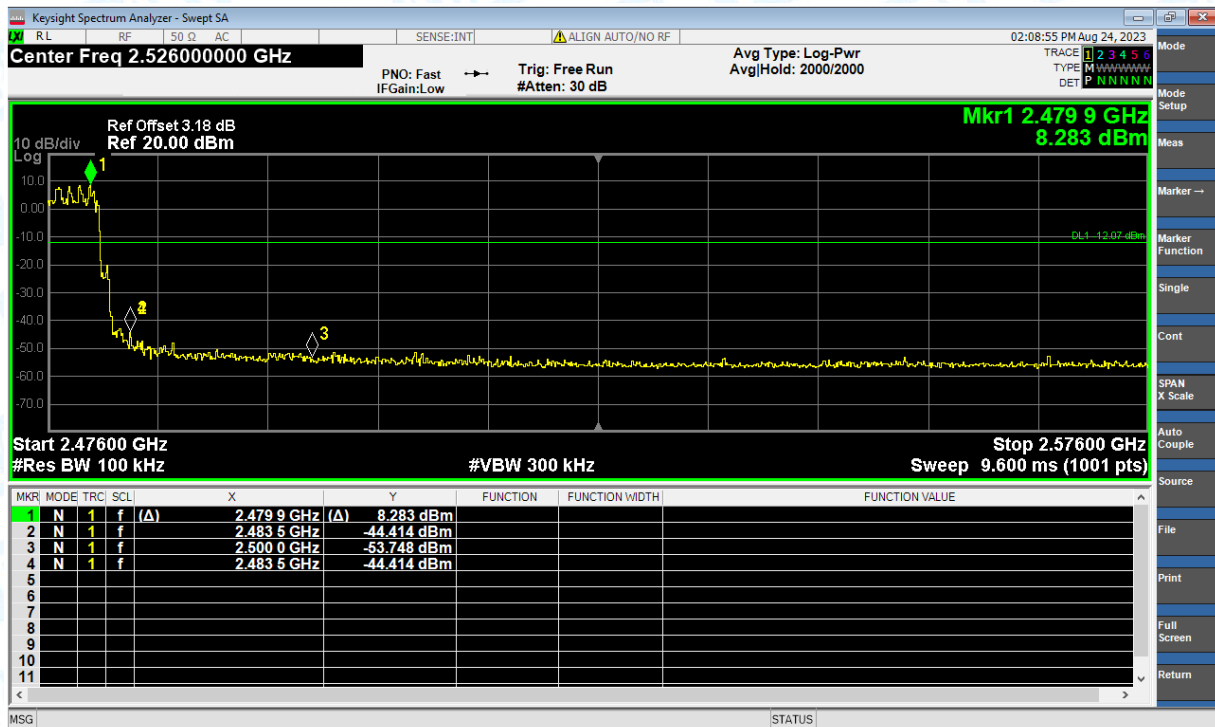
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



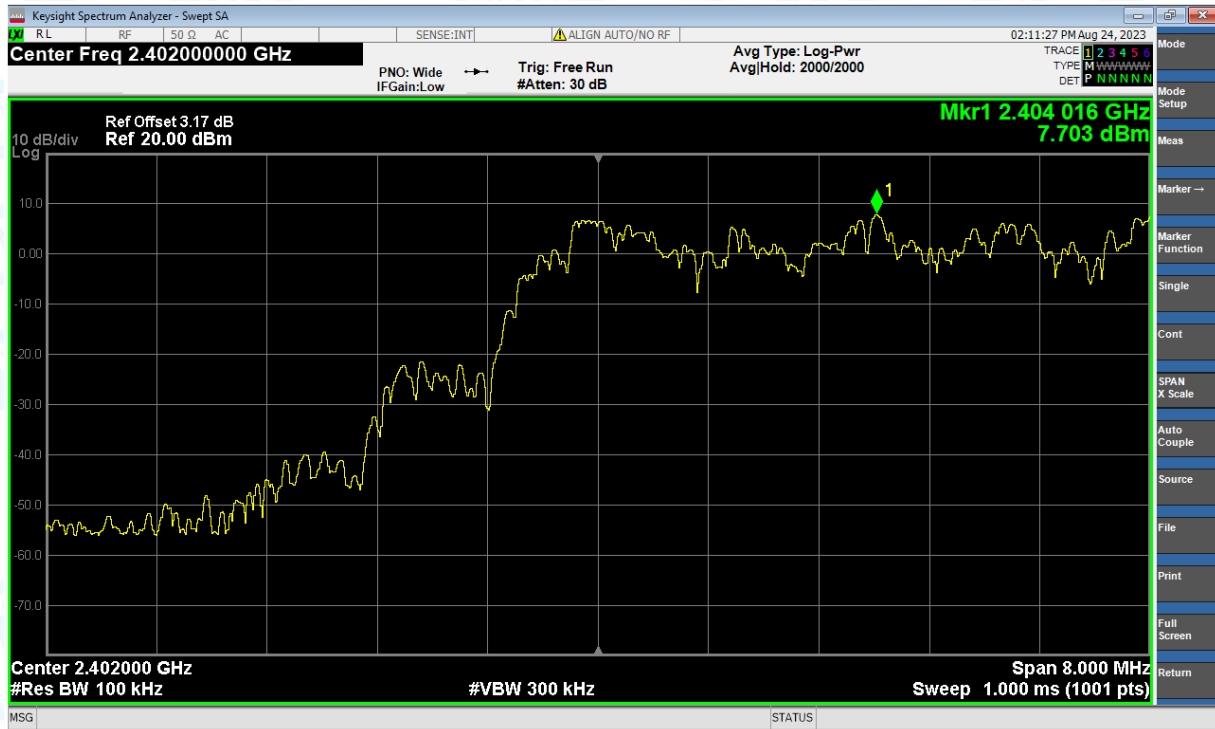
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



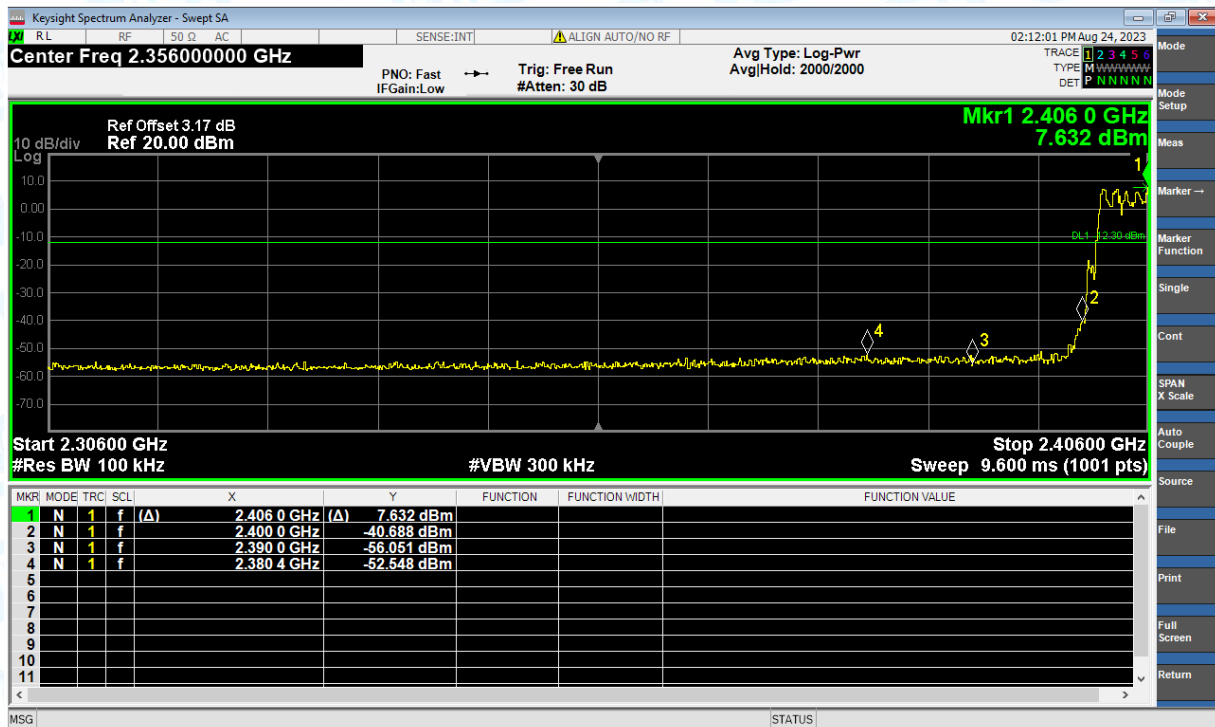
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



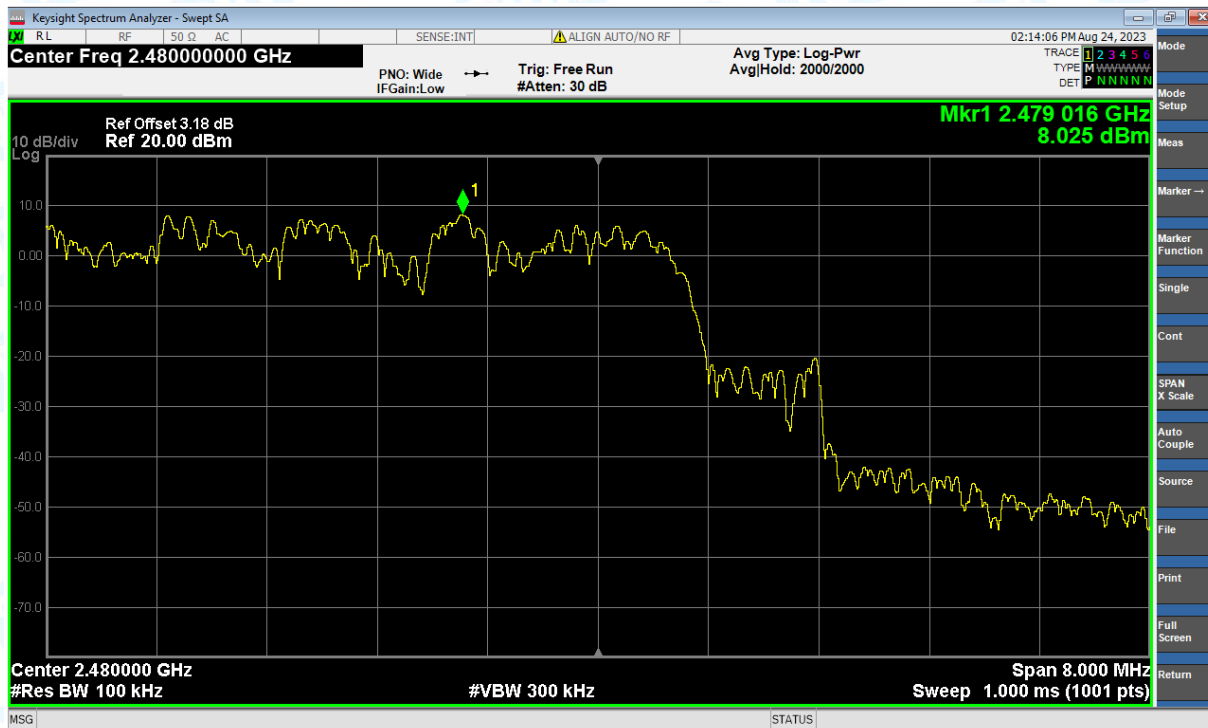
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



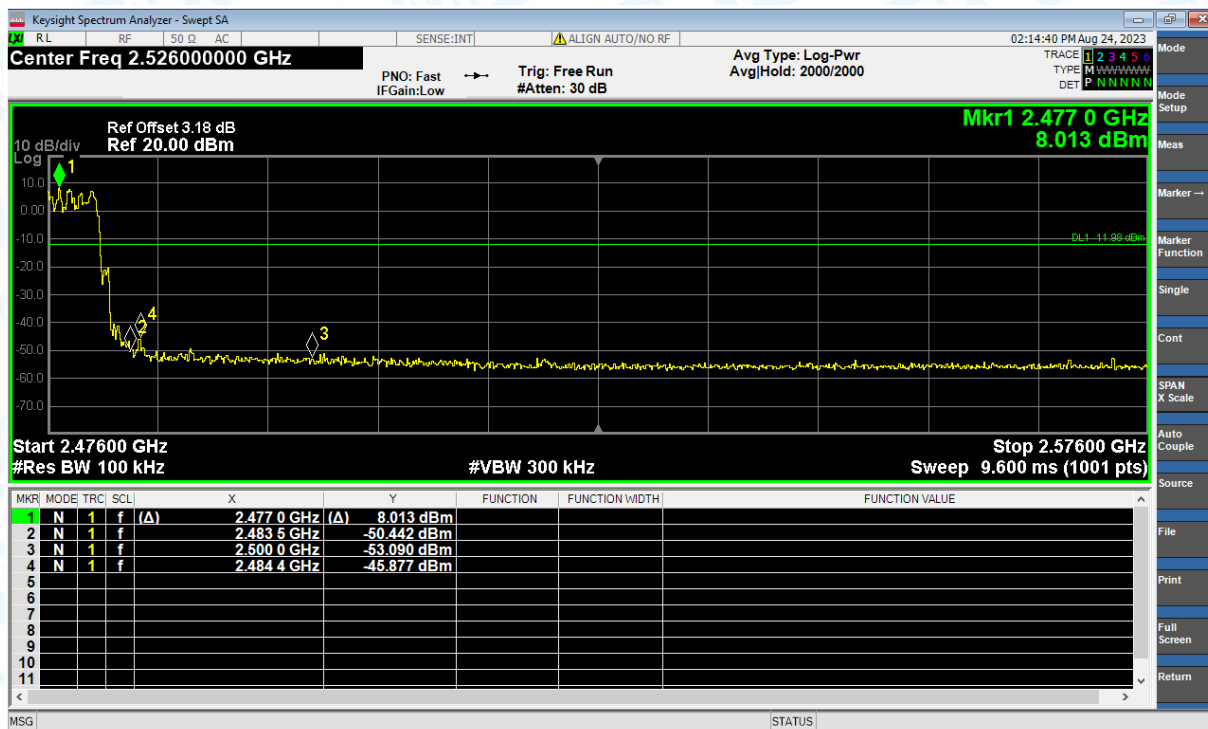
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

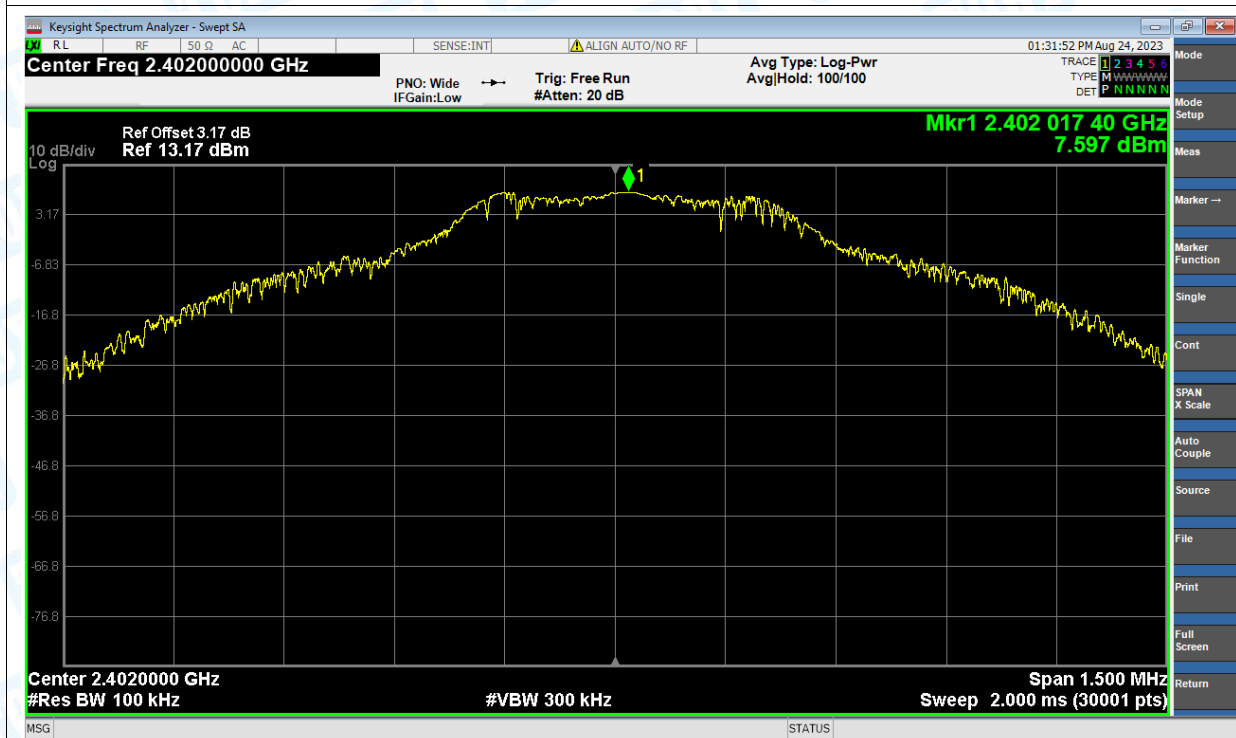


7. Conducted RF Spurious Emission

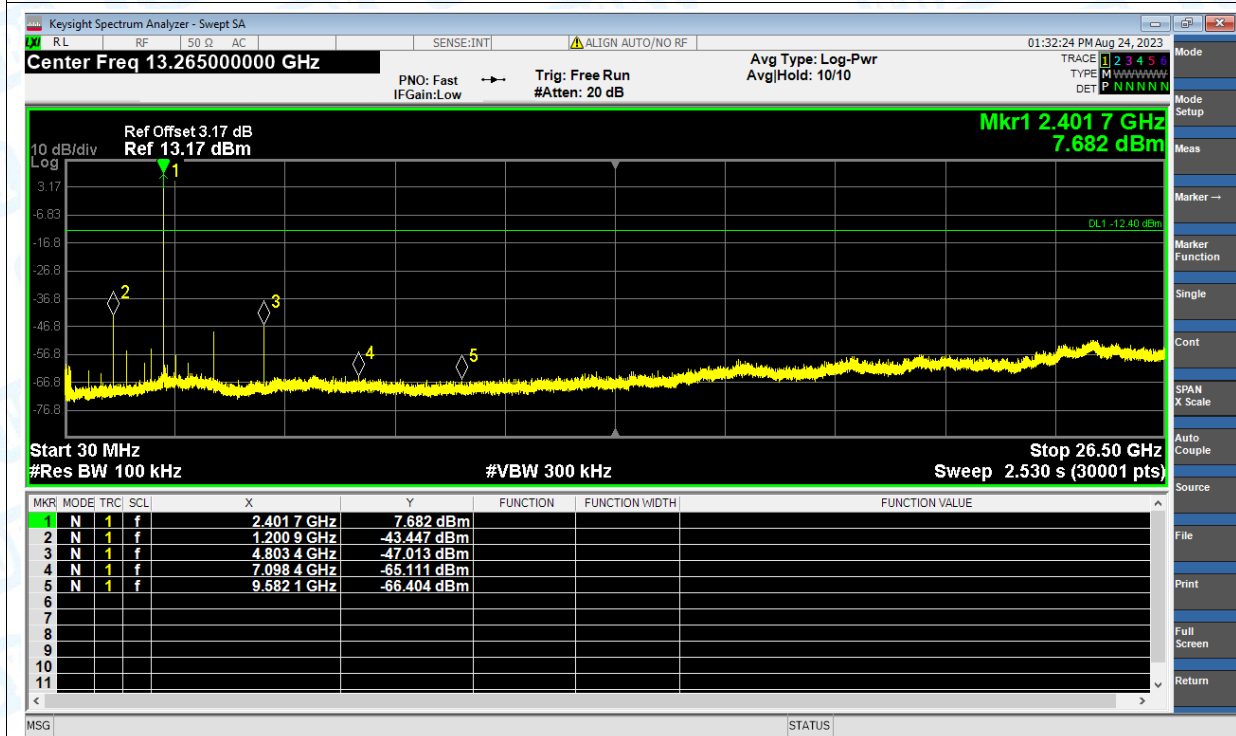
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-51.05	-20	Pass
NVNT	1-DH1	2441	Ant1	-49.06	-20	Pass
NVNT	1-DH1	2480	Ant1	-47.73	-20	Pass
NVNT	2-DH1	2402	Ant1	-51.06	-20	Pass
NVNT	2-DH1	2441	Ant1	-46.97	-20	Pass
NVNT	2-DH1	2480	Ant1	-48.01	-20	Pass
NVNT	3-DH1	2402	Ant1	-51.61	-20	Pass
NVNT	3-DH1	2441	Ant1	-49.52	-20	Pass
NVNT	3-DH1	2480	Ant1	-48.57	-20	Pass

Test Graphs

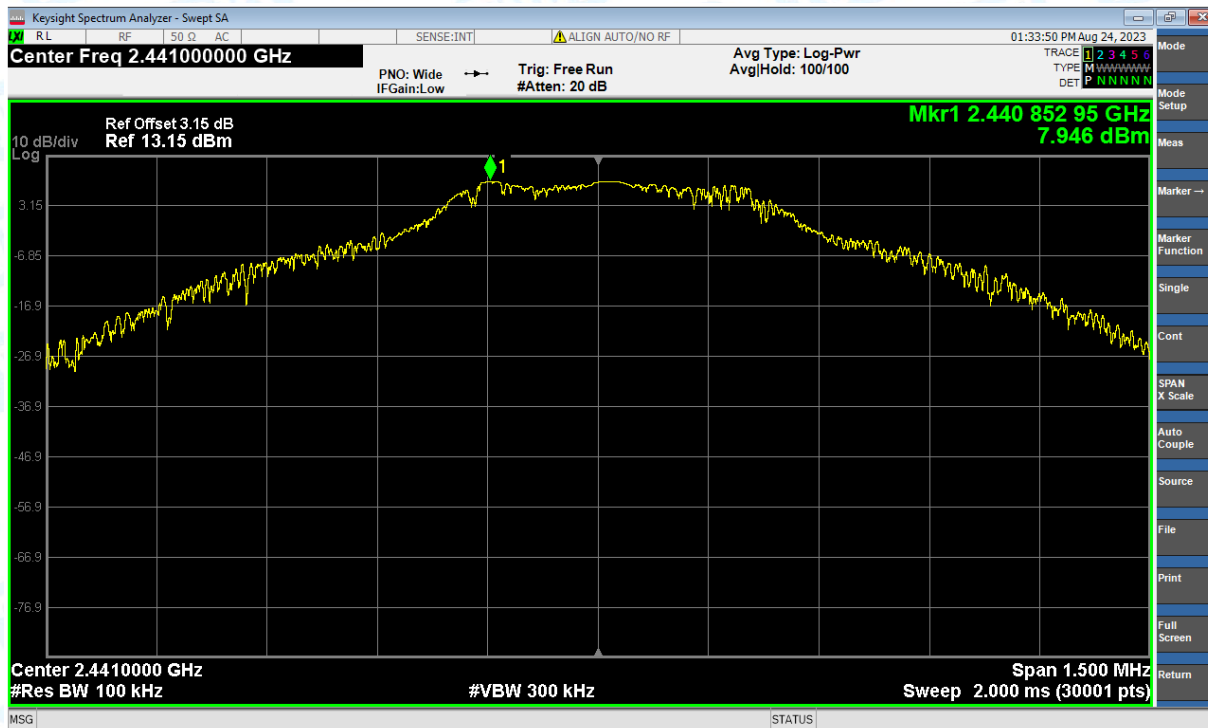
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



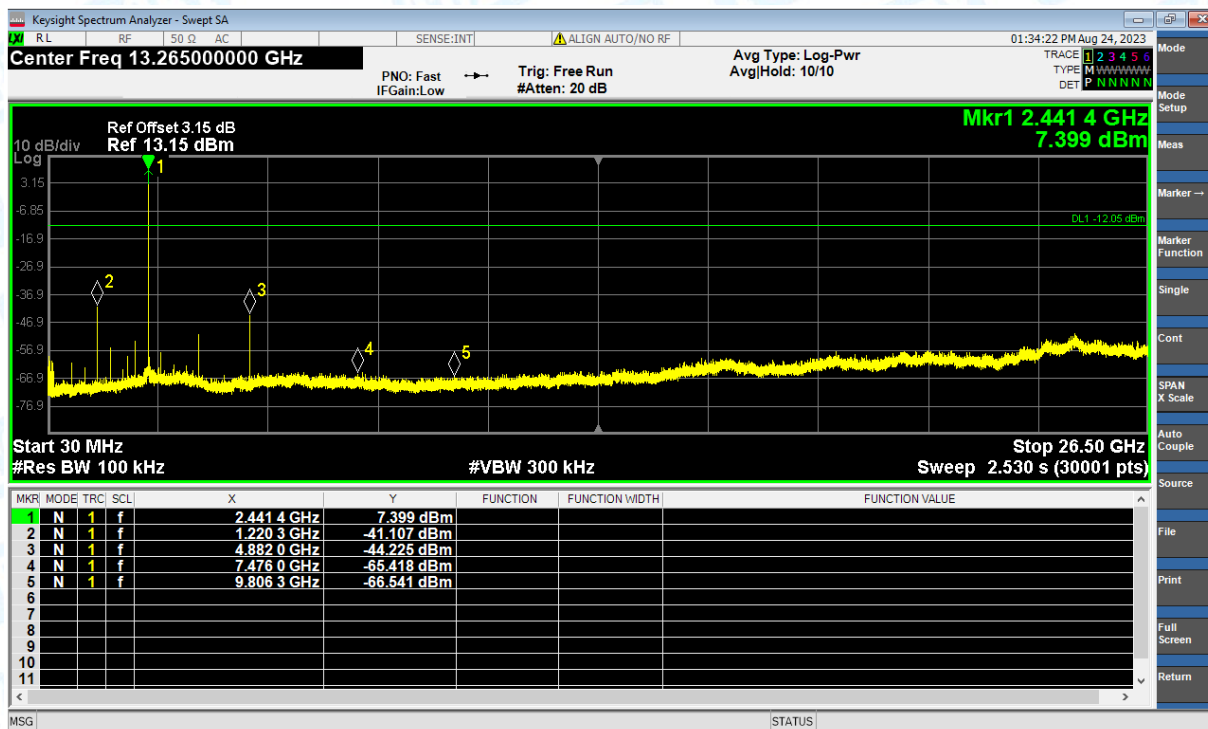
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



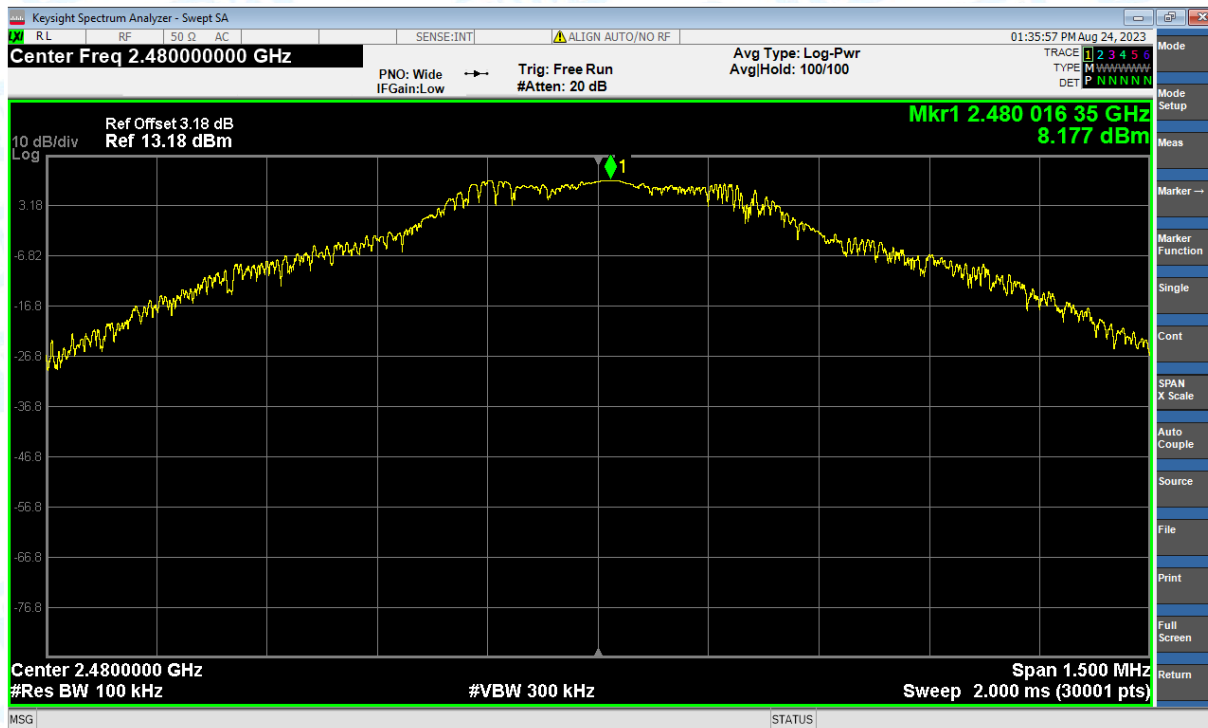
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



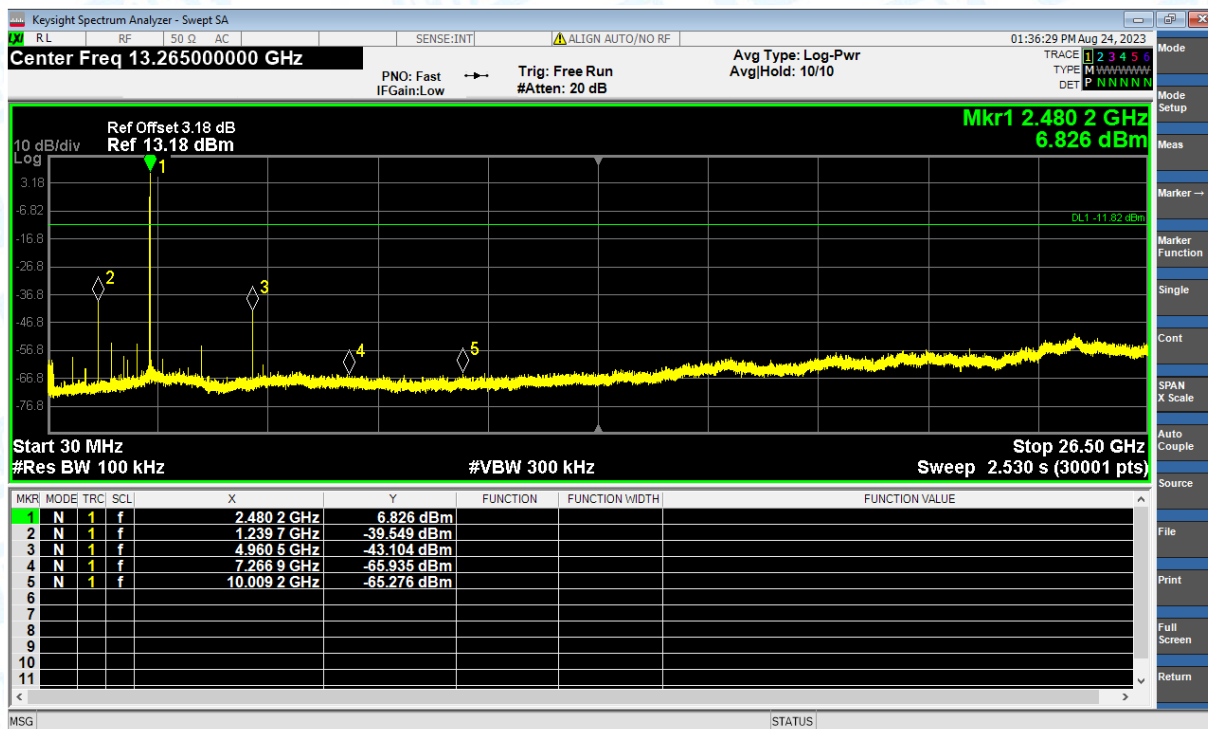
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



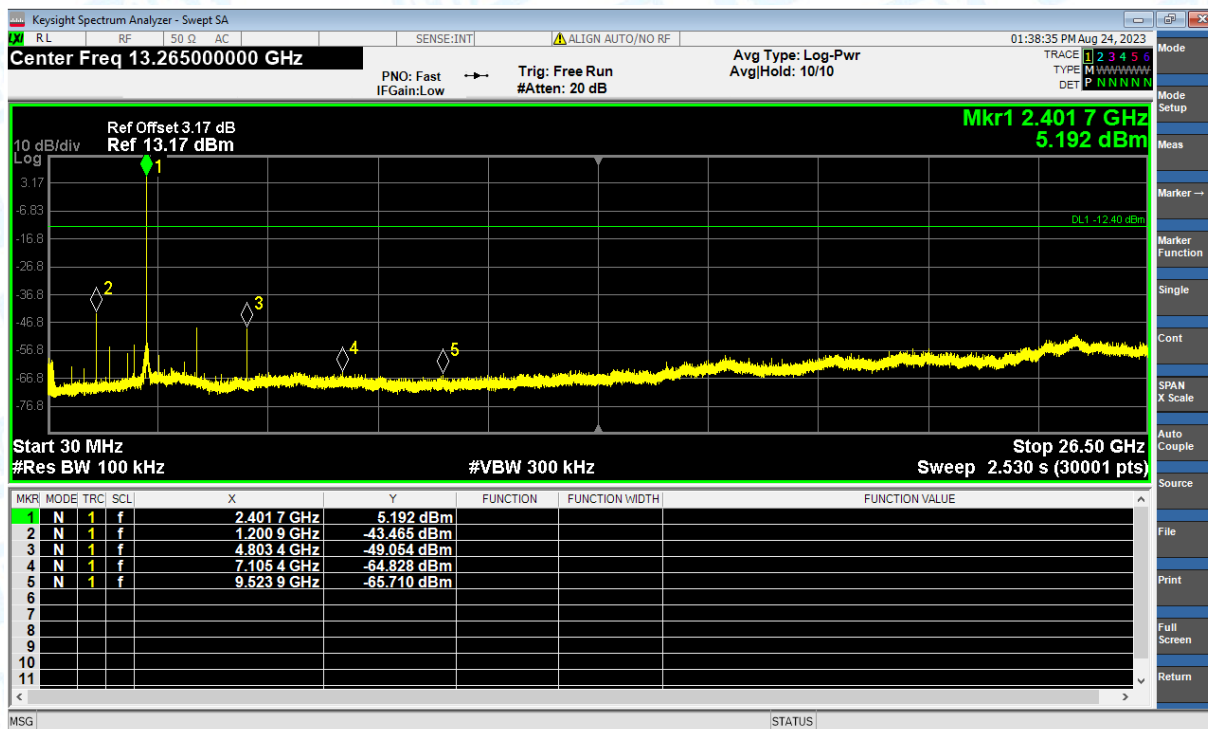
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



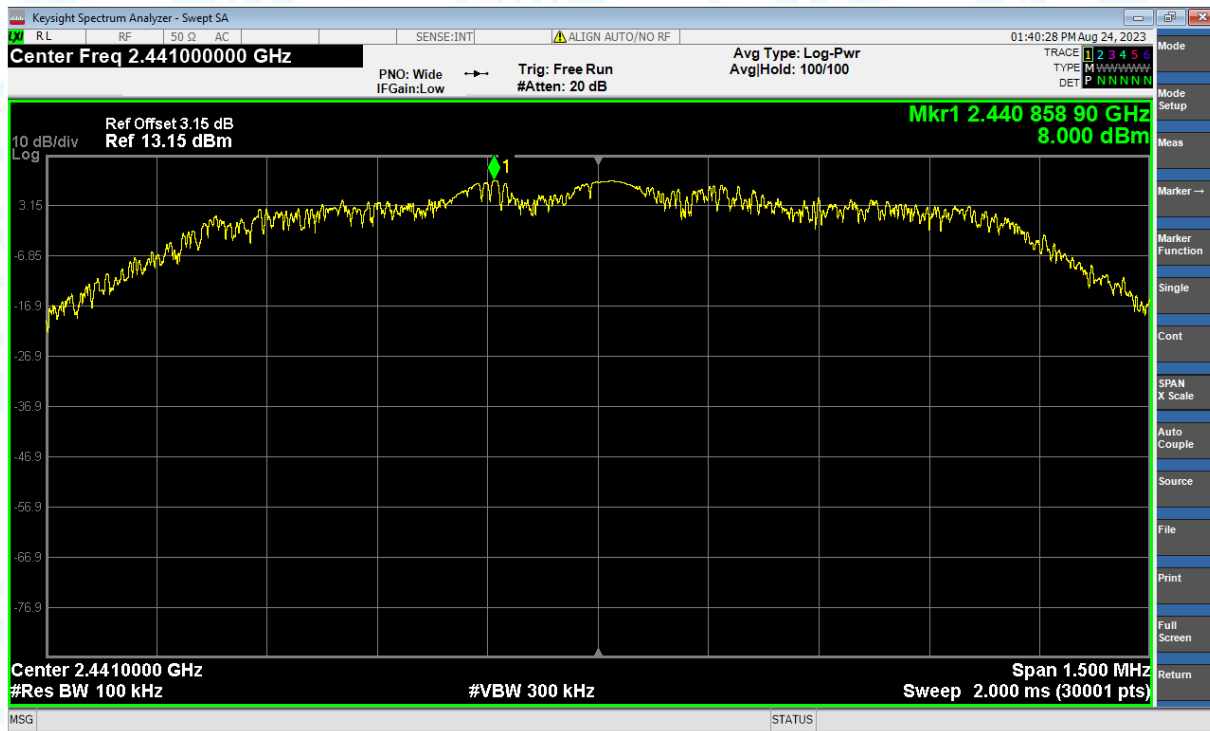
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



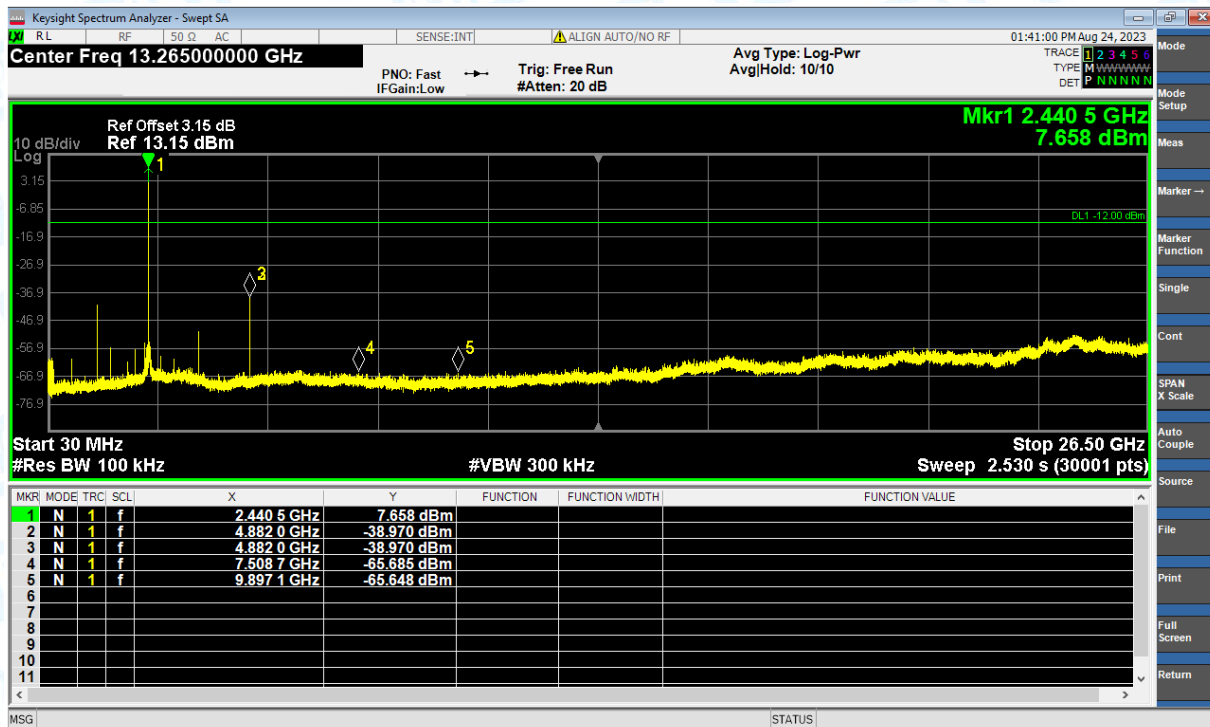
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



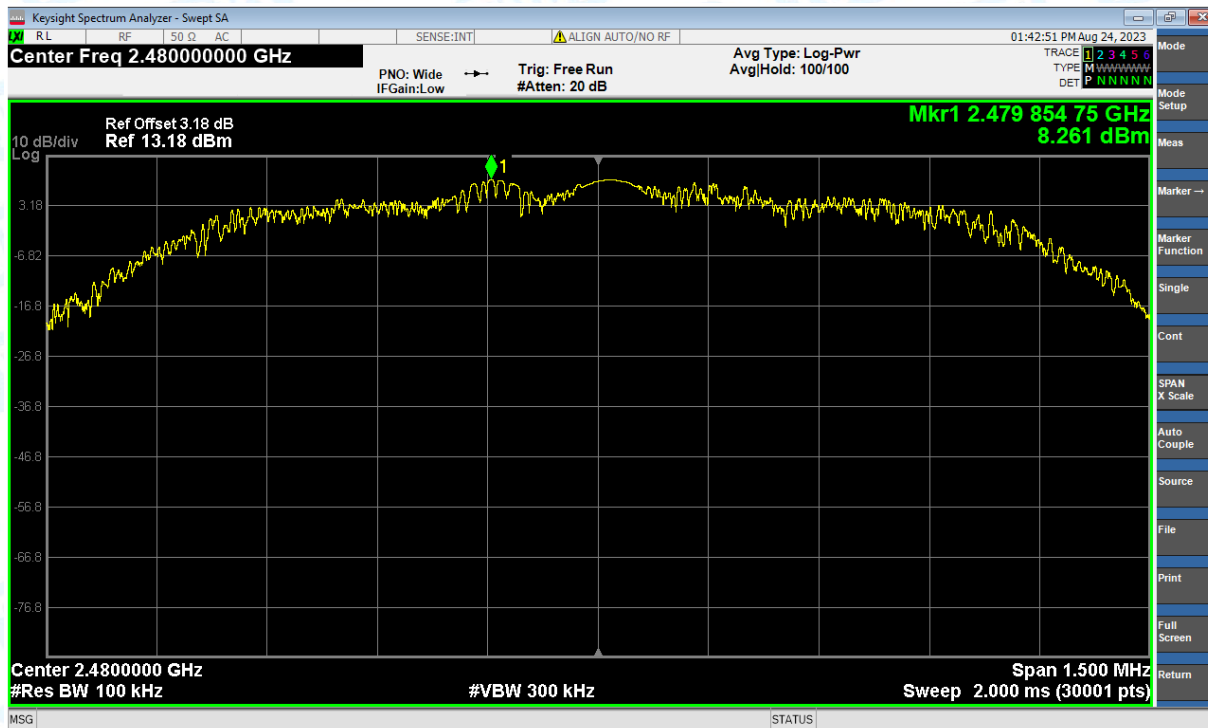
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



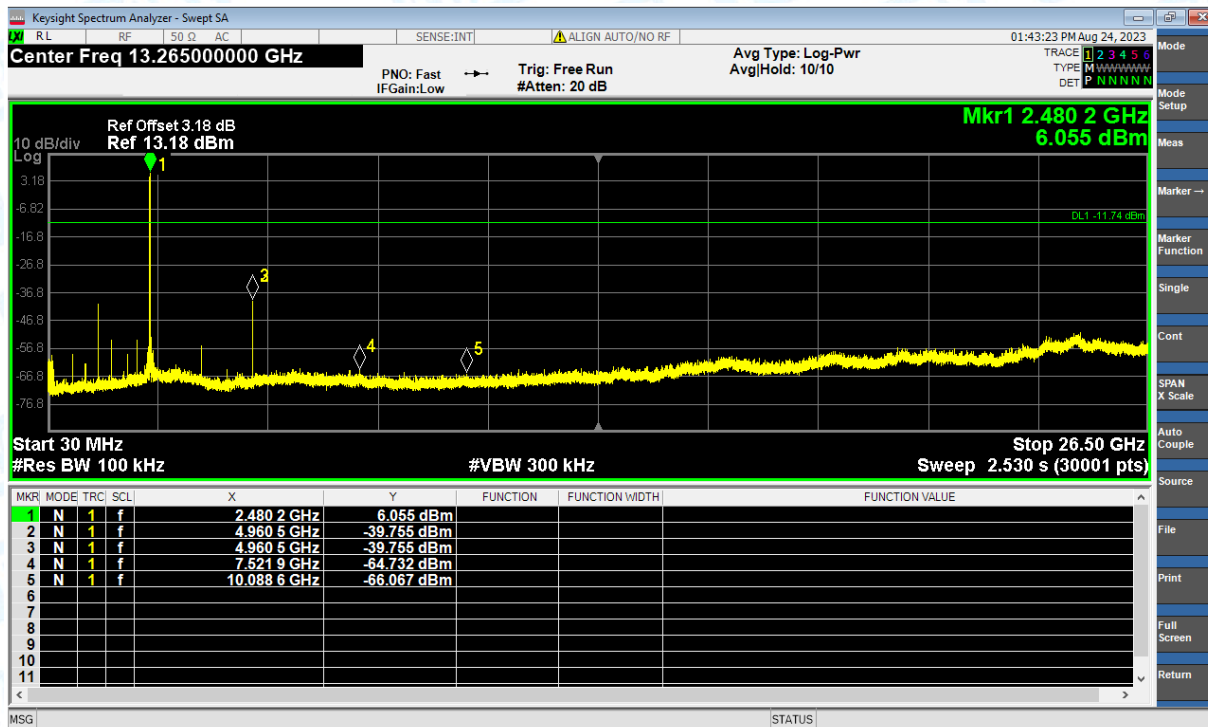
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



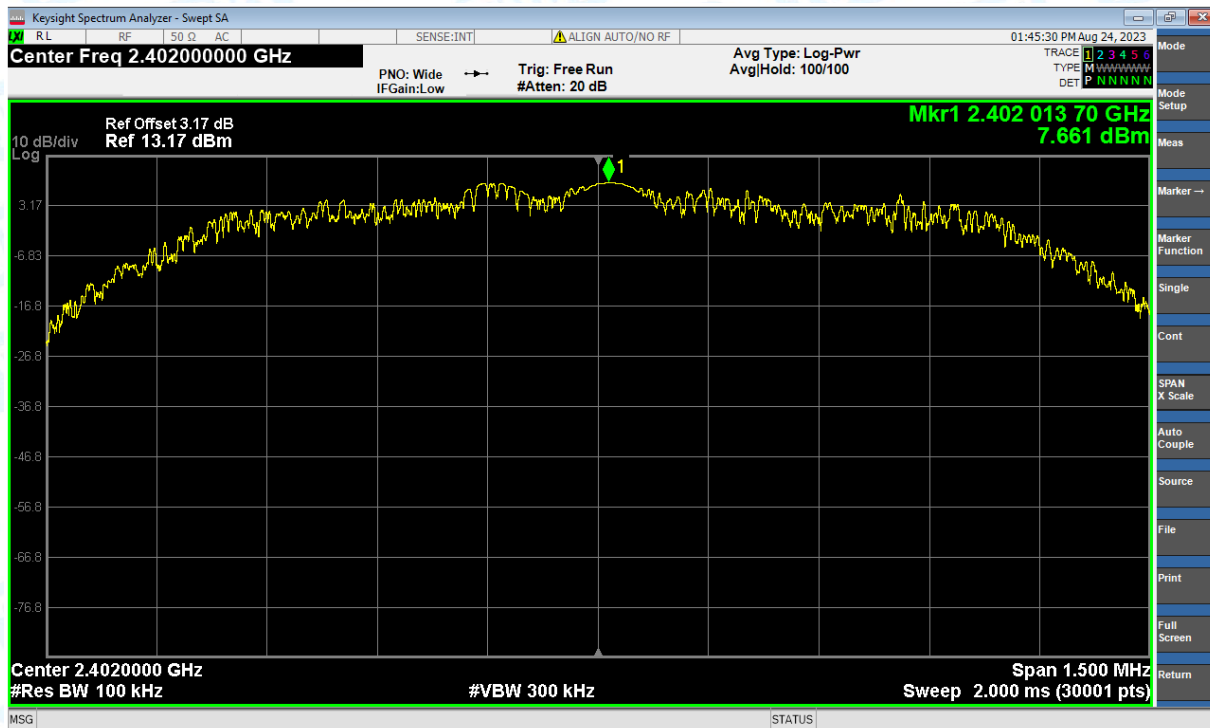
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



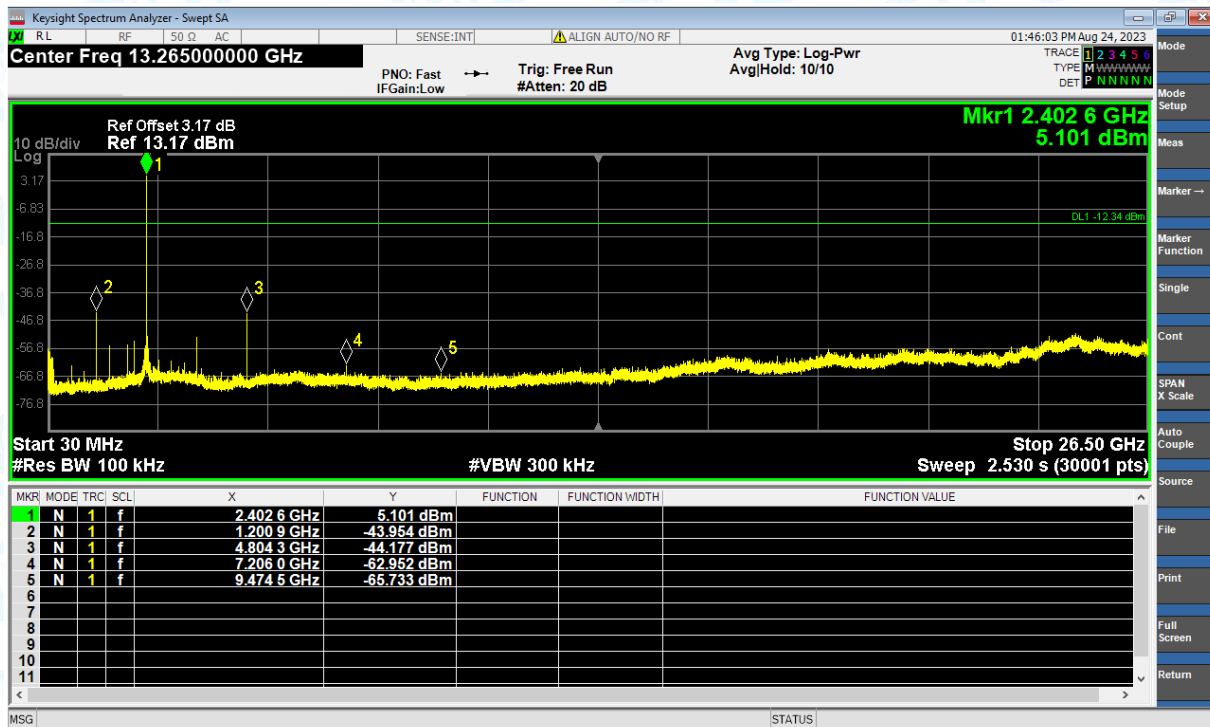
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



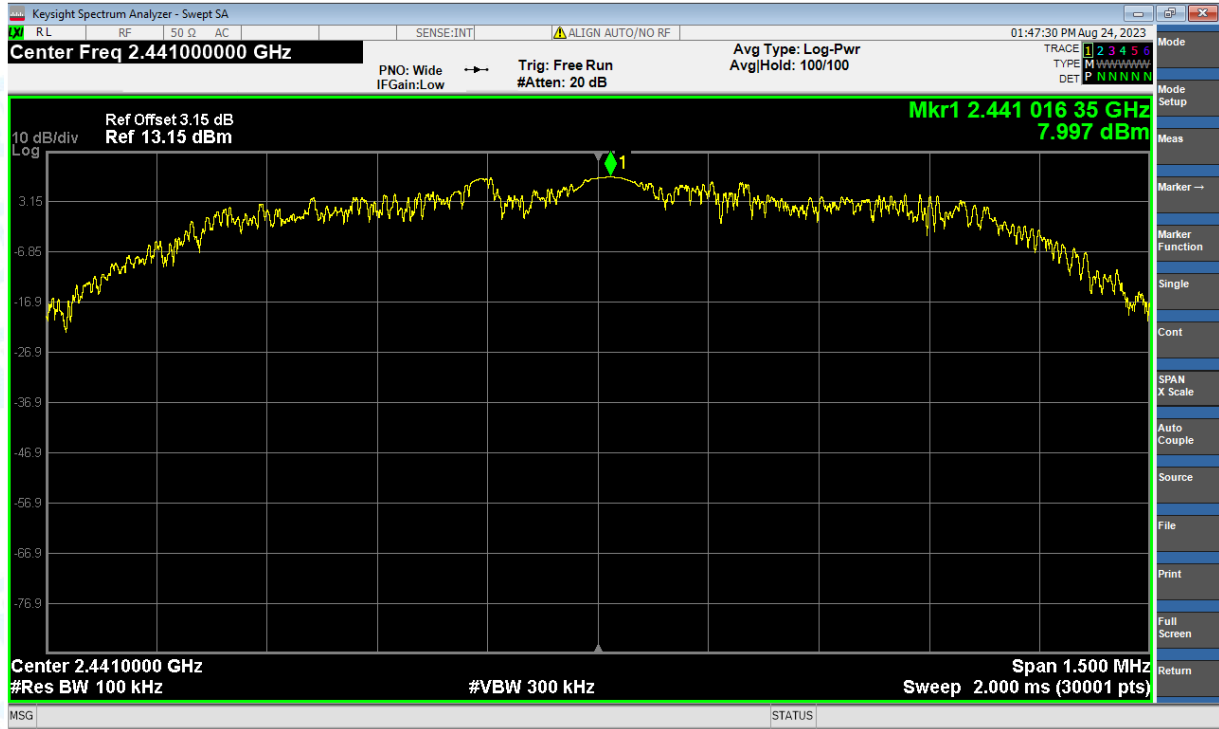
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



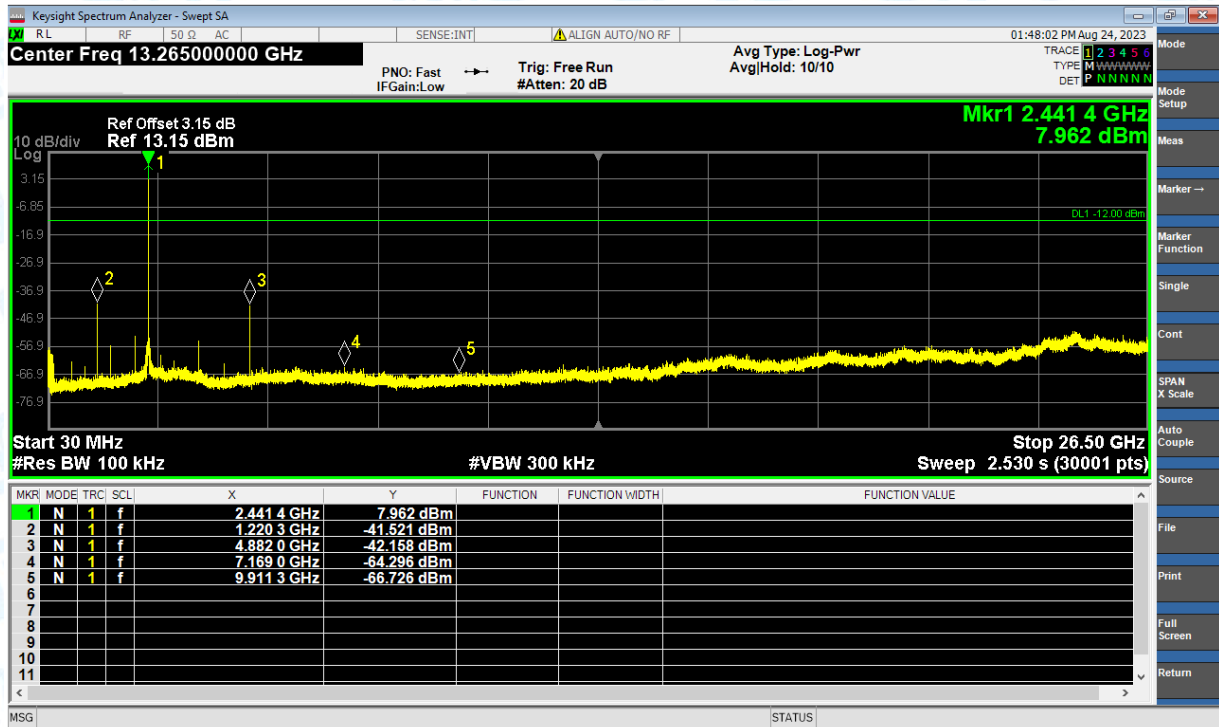
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



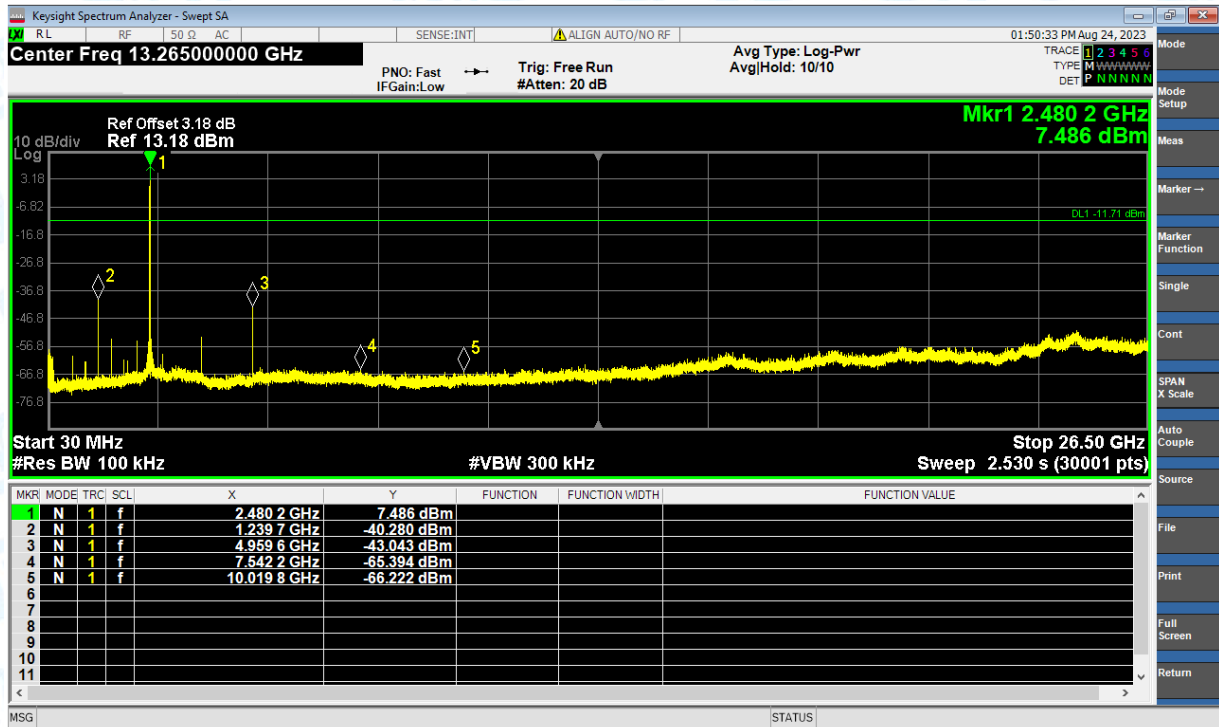
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

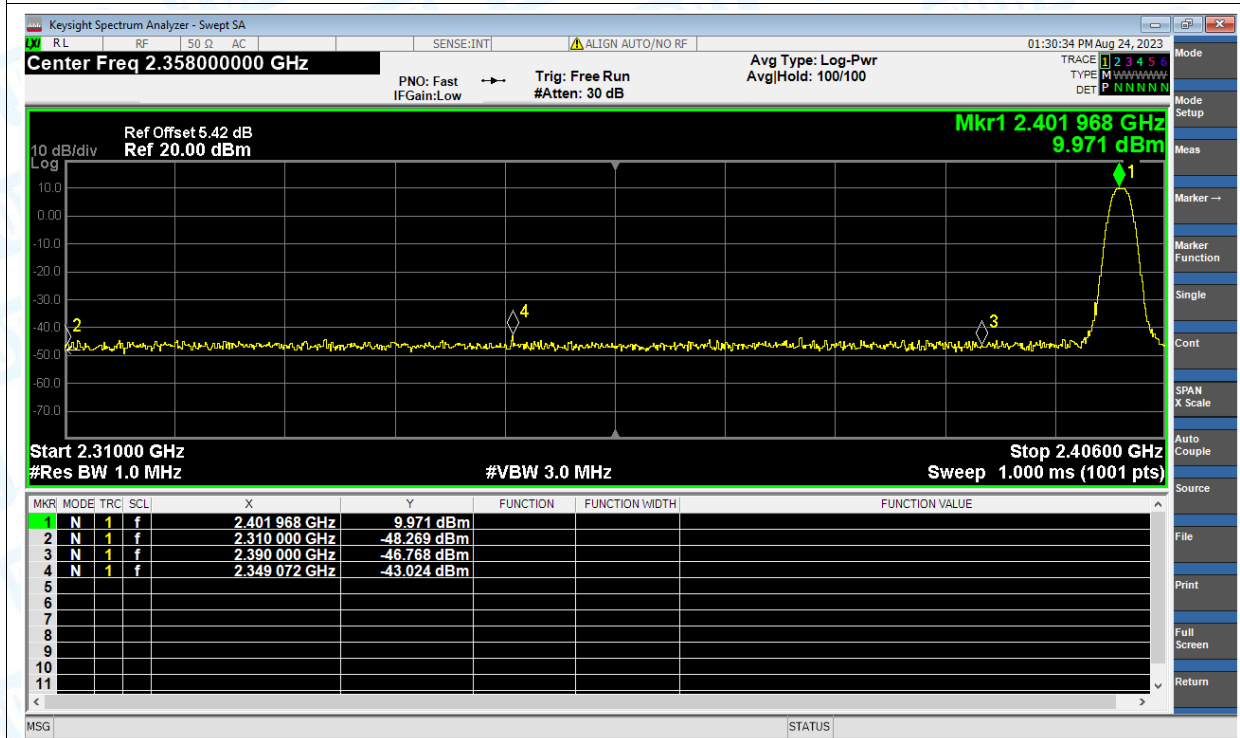


8. Restrict Band

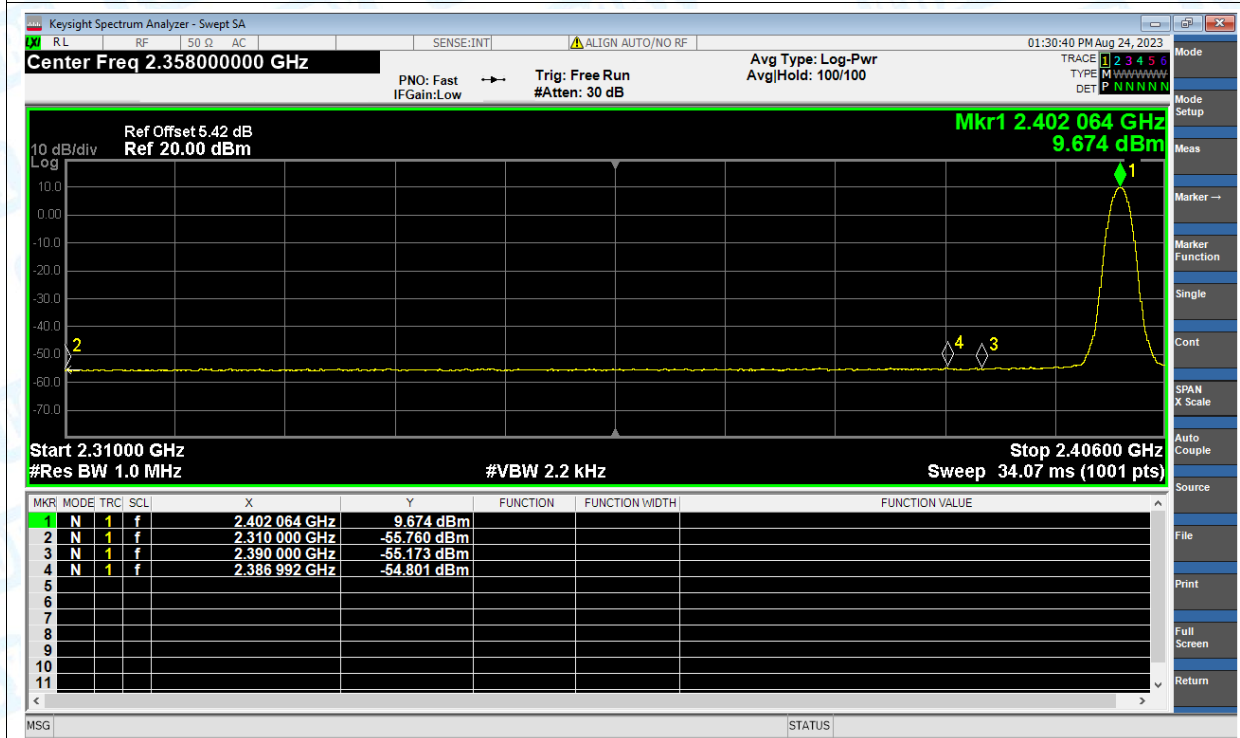
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.27	3.12	50.11	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.76	3.12	42.62	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2349.072	-43.02	3.12	55.36	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2386.992	-54.8	3.12	43.58	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.64	3.12	51.74	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.35	3.12	43.03	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.03	3.12	52.35	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-53.33	3.12	45.05	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.824	-39.27	3.12	59.11	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.56	-53.24	3.12	45.14	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.22	3.12	51.16	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.02	3.12	43.36	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-46.77	3.12	51.61	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.65	3.12	42.73	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2377.584	-40.29	3.12	58.09	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2382.288	-51.88	3.12	46.50	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-44.78	3.12	53.60	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-52.53	3.12	45.85	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-34.14	3.12	64.24	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-46.34	3.12	52.04	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.352	-32.85	3.12	65.53	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.608	-45.8	3.12	52.58	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-40.58	3.12	57.80	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-51.33	3.12	47.05	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-45.92	3.12	52.46	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.51	3.12	42.87	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2386.224	-40.35	3.12	58.03	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2372.592	-51.74	3.12	46.64	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-43.59	3.12	54.79	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-52.57	3.12	45.81	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-33.58	3.12	64.80	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.27	3.12	51.11	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.424	-32.5	3.12	65.88	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.512	-47.27	3.12	51.11	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-43.31	3.12	55.07	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-51.31	3.12	47.07	Average	54	Pass

Test Graphs

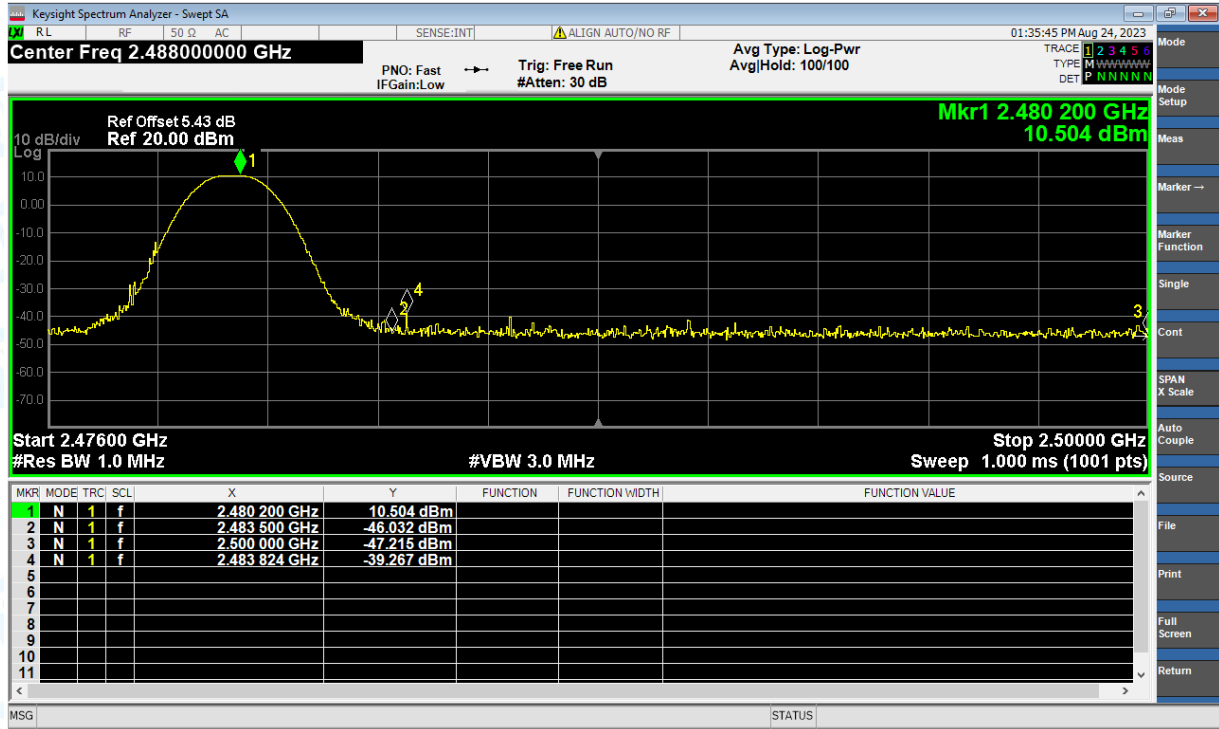
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



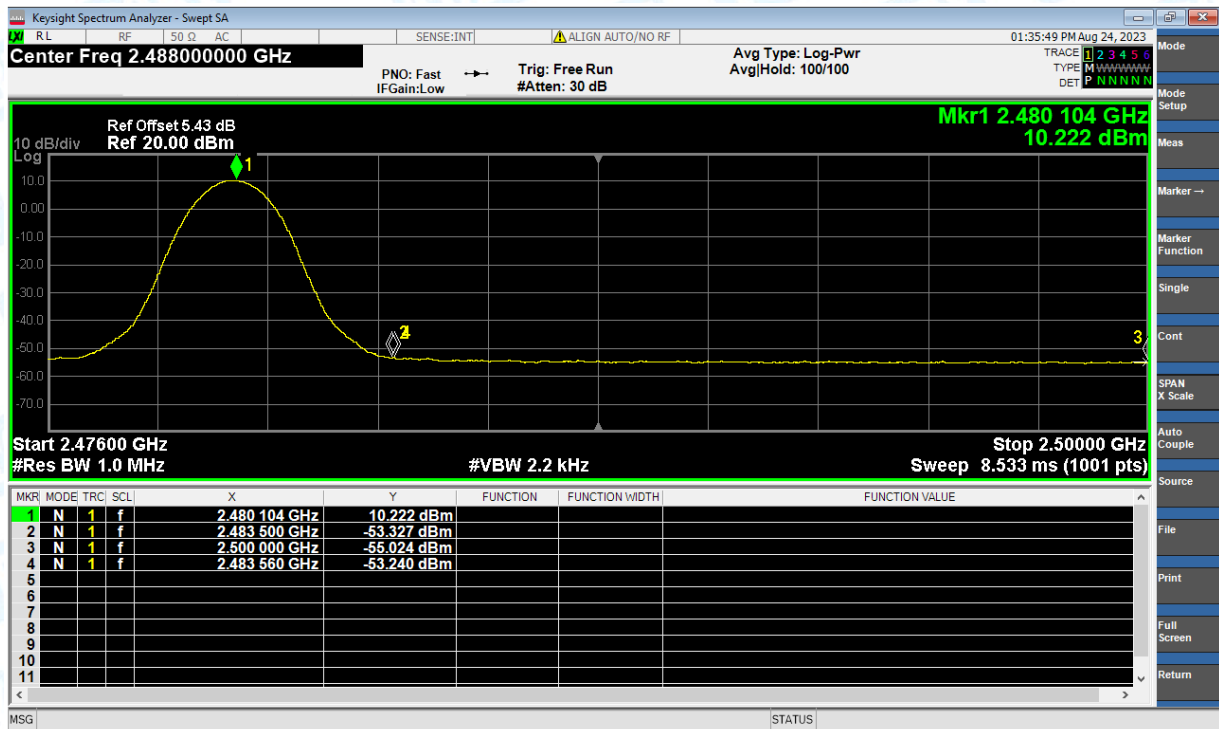
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



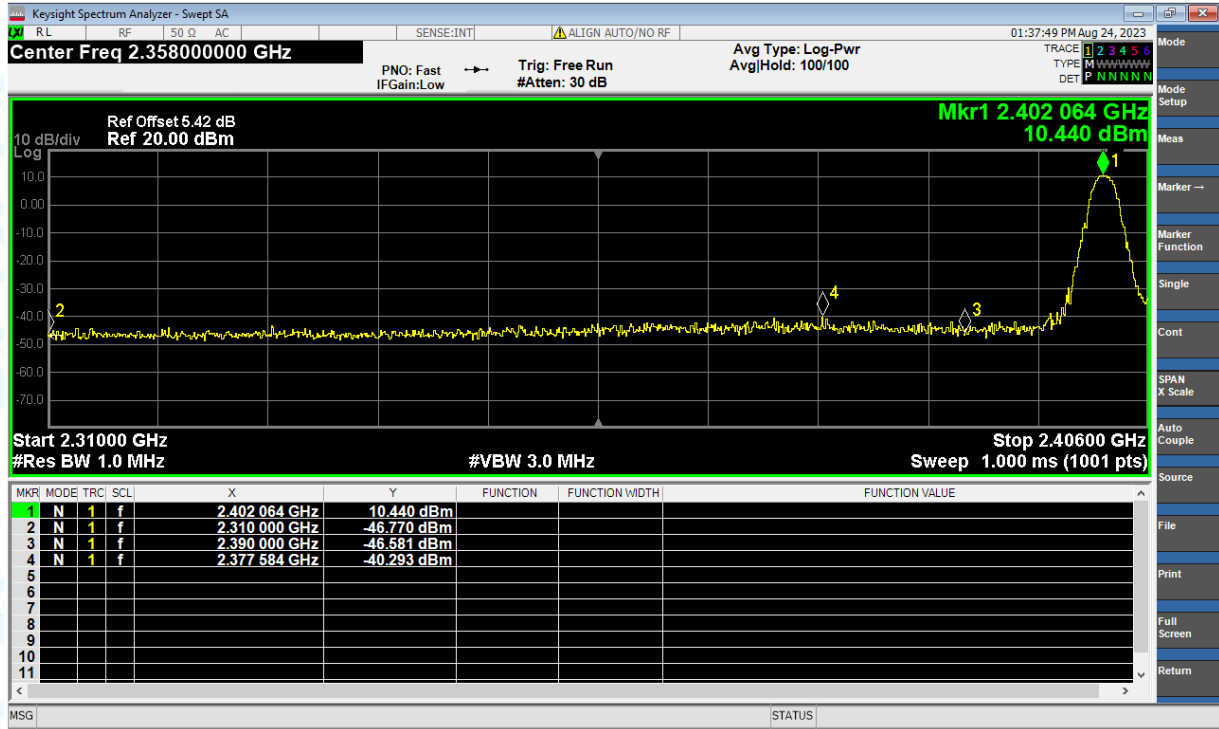
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



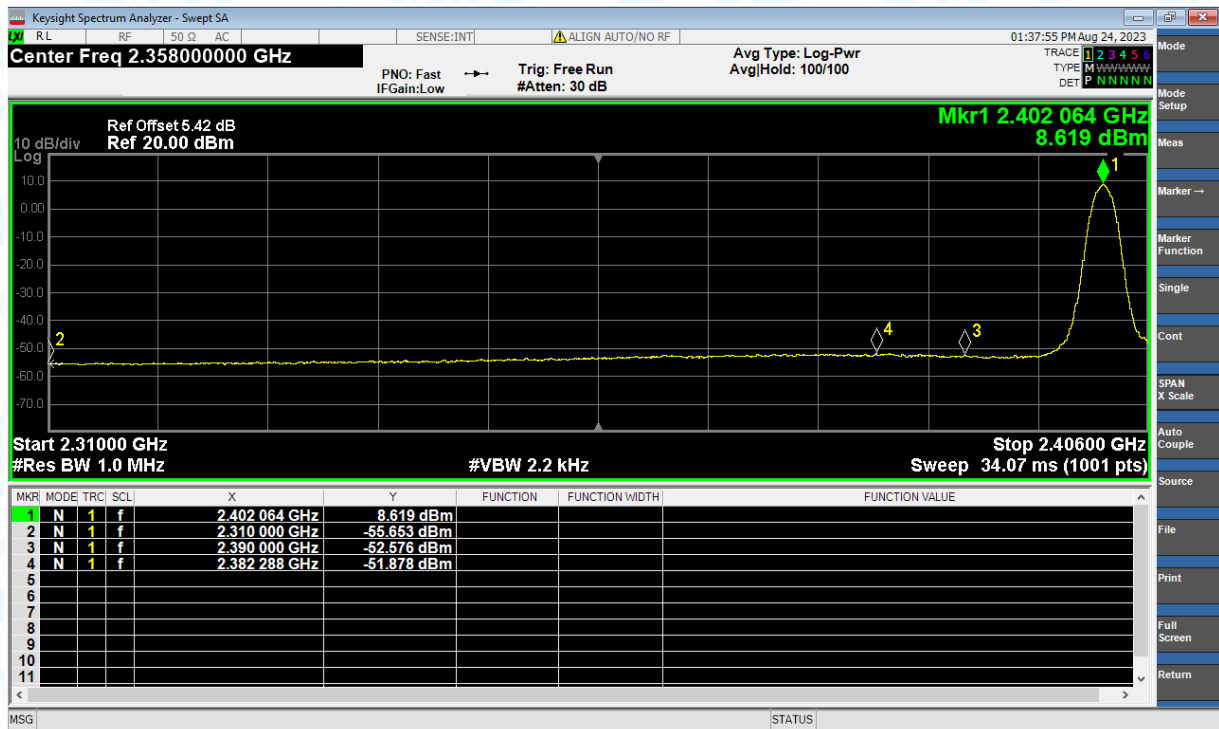
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



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



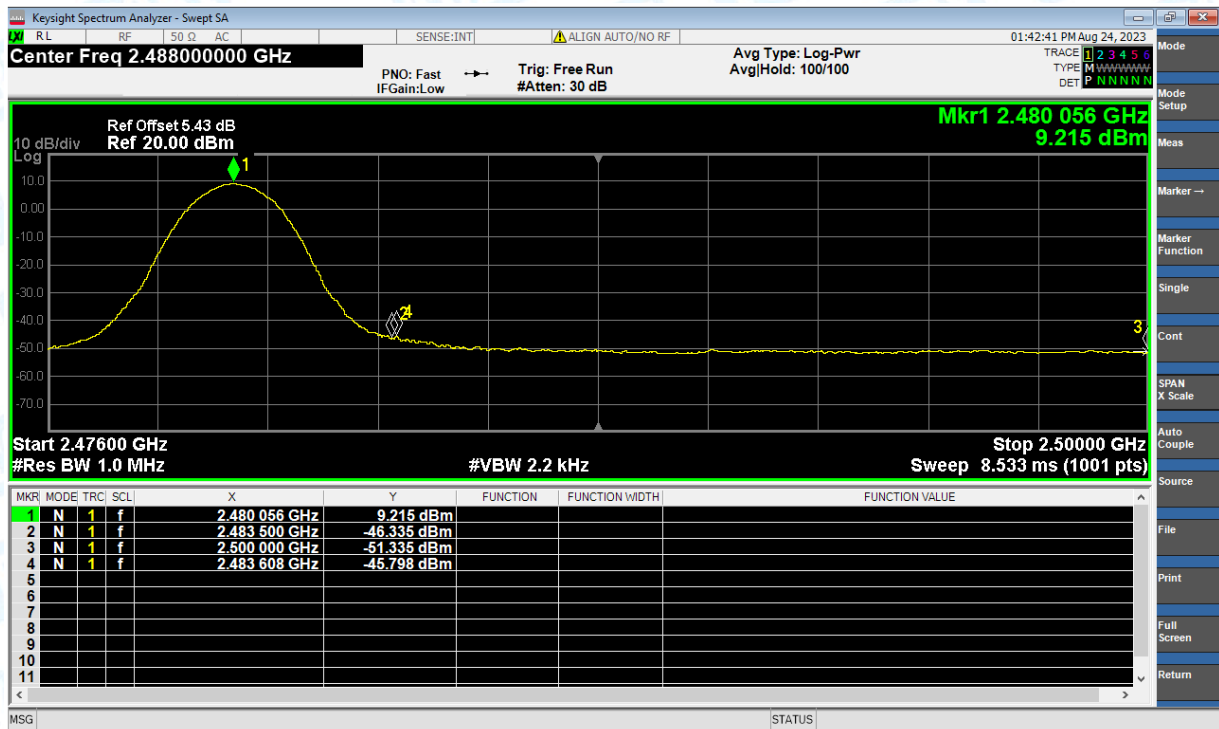
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



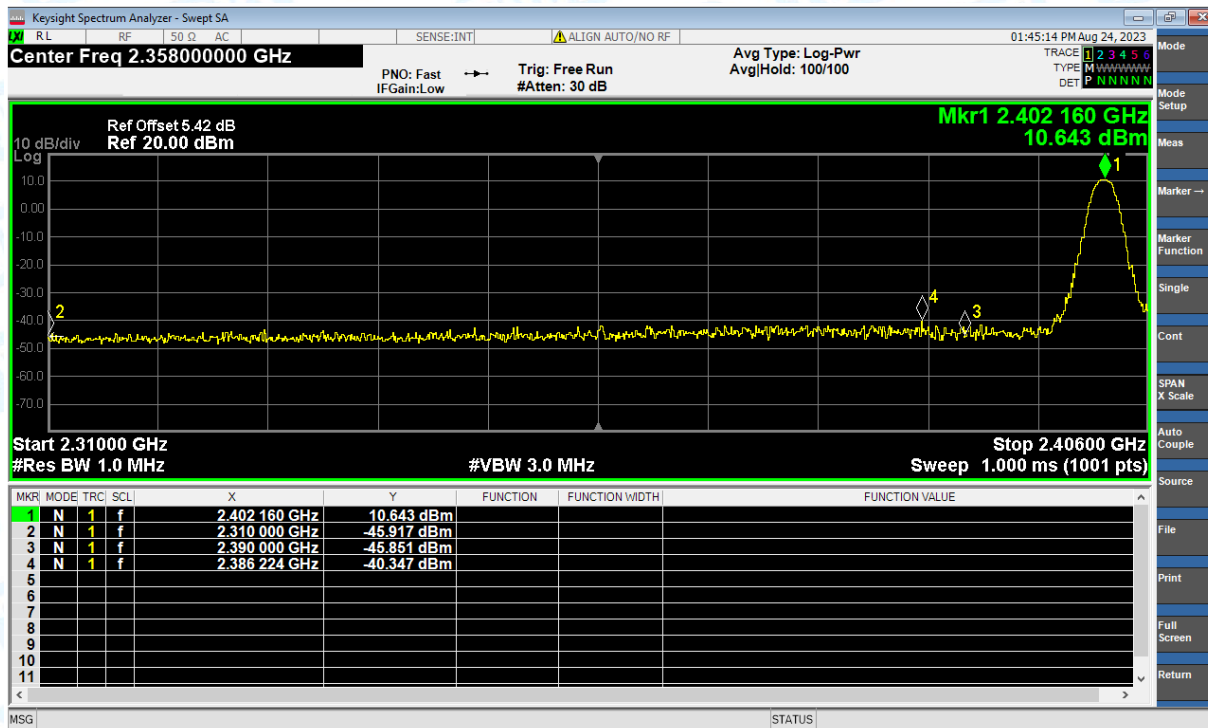
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



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



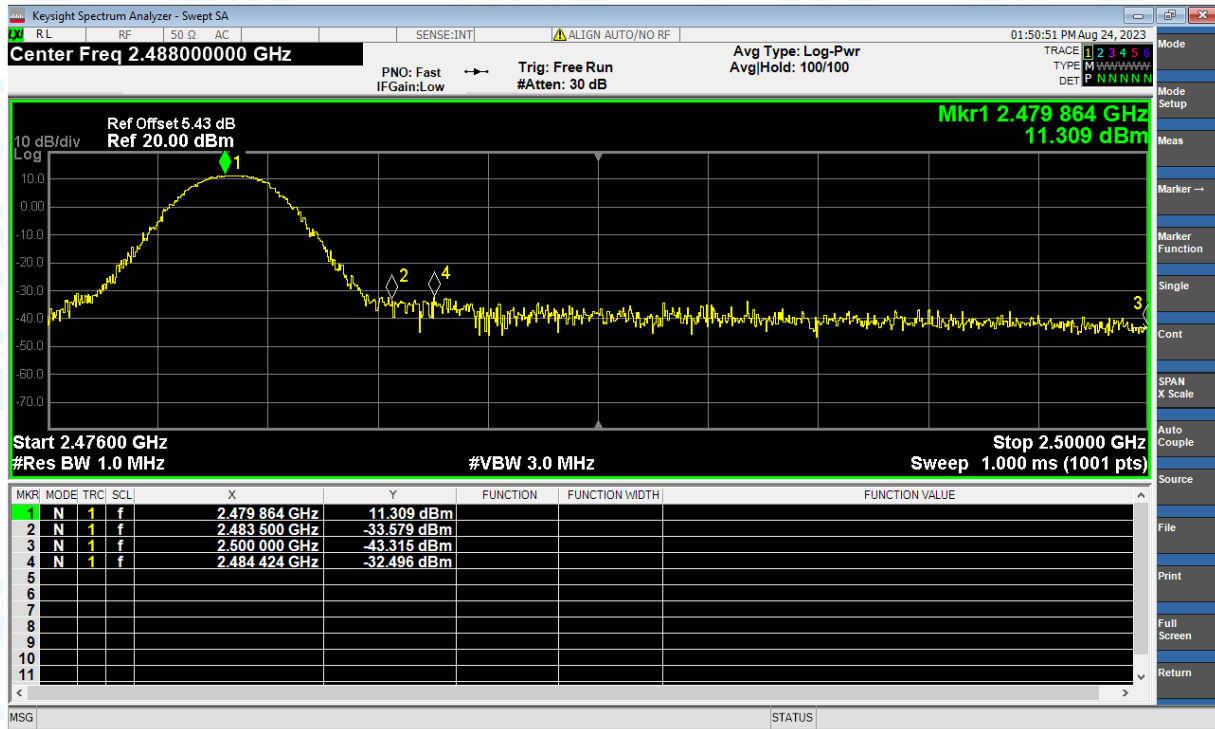
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



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

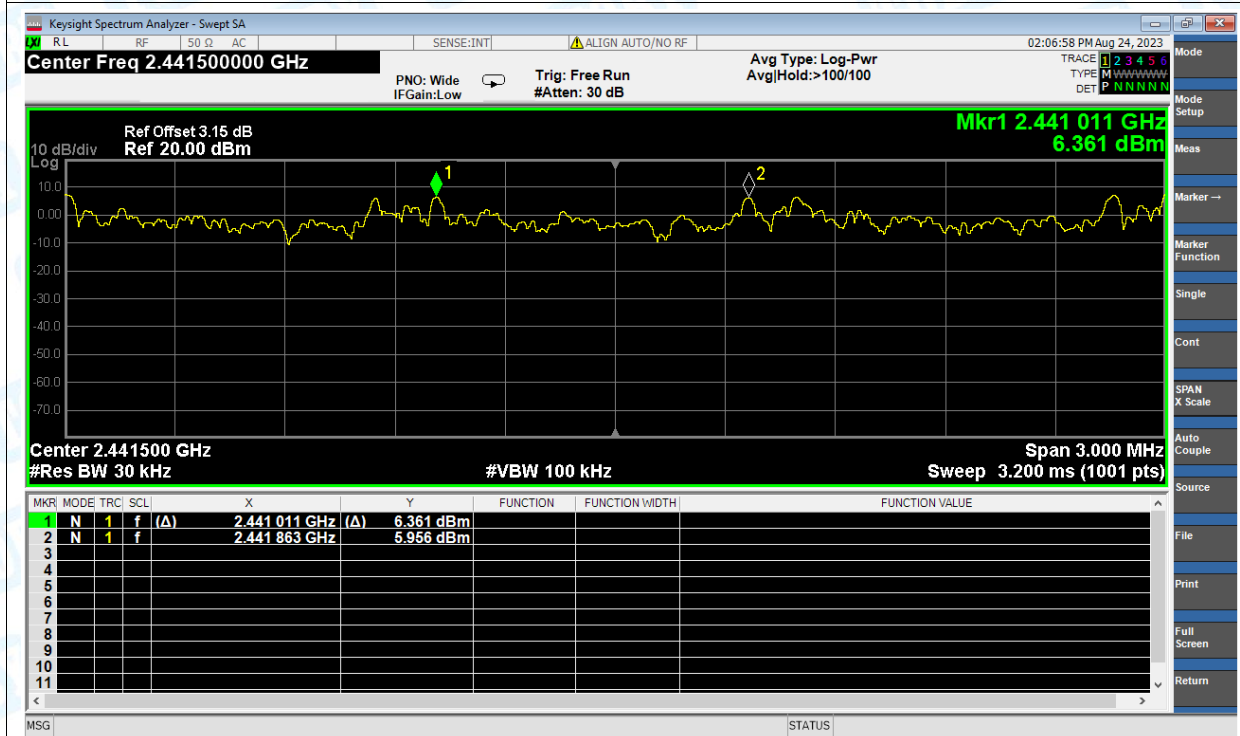
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.005	2441.854	0.849	0.613	Pass
NVNT	2-DH1	Ant1	2441.011	2441.863	0.852	0.82	Pass
NVNT	3-DH1	Ant1	2440.999	2442.001	1.002	0.84	Pass

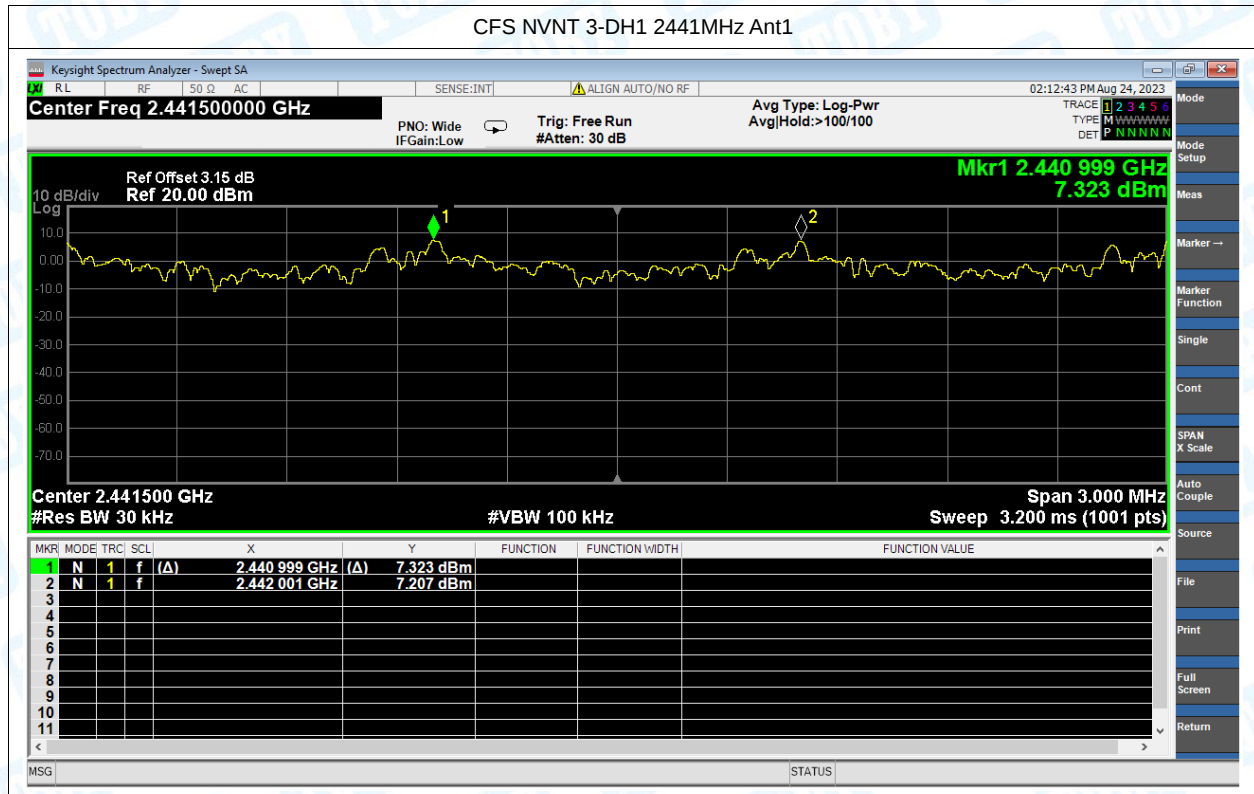
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



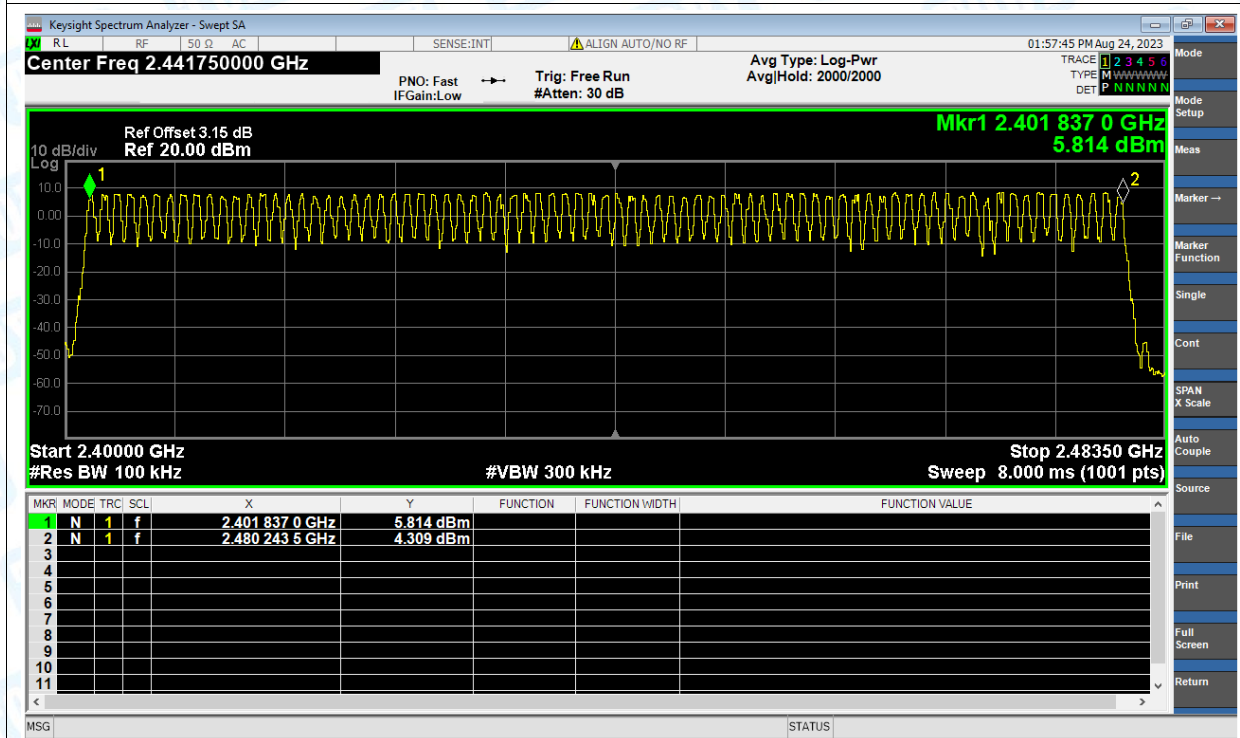


10. Number of Hopping Channel

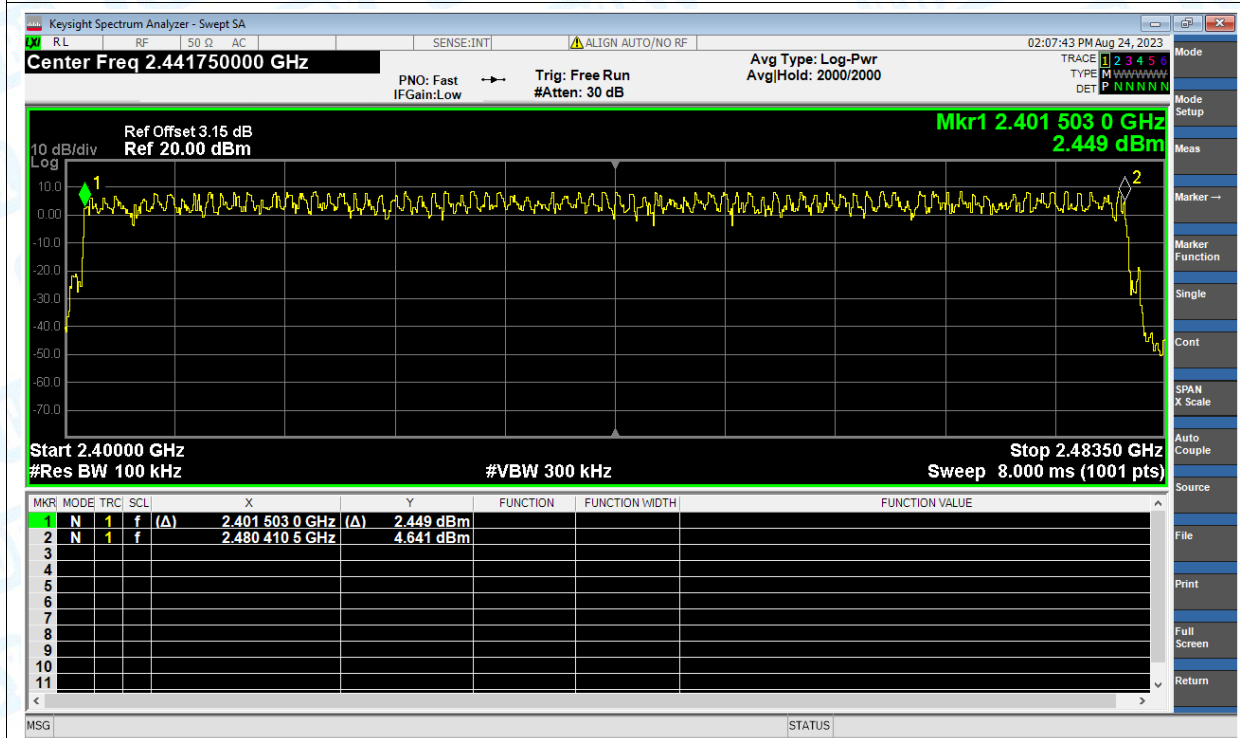
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

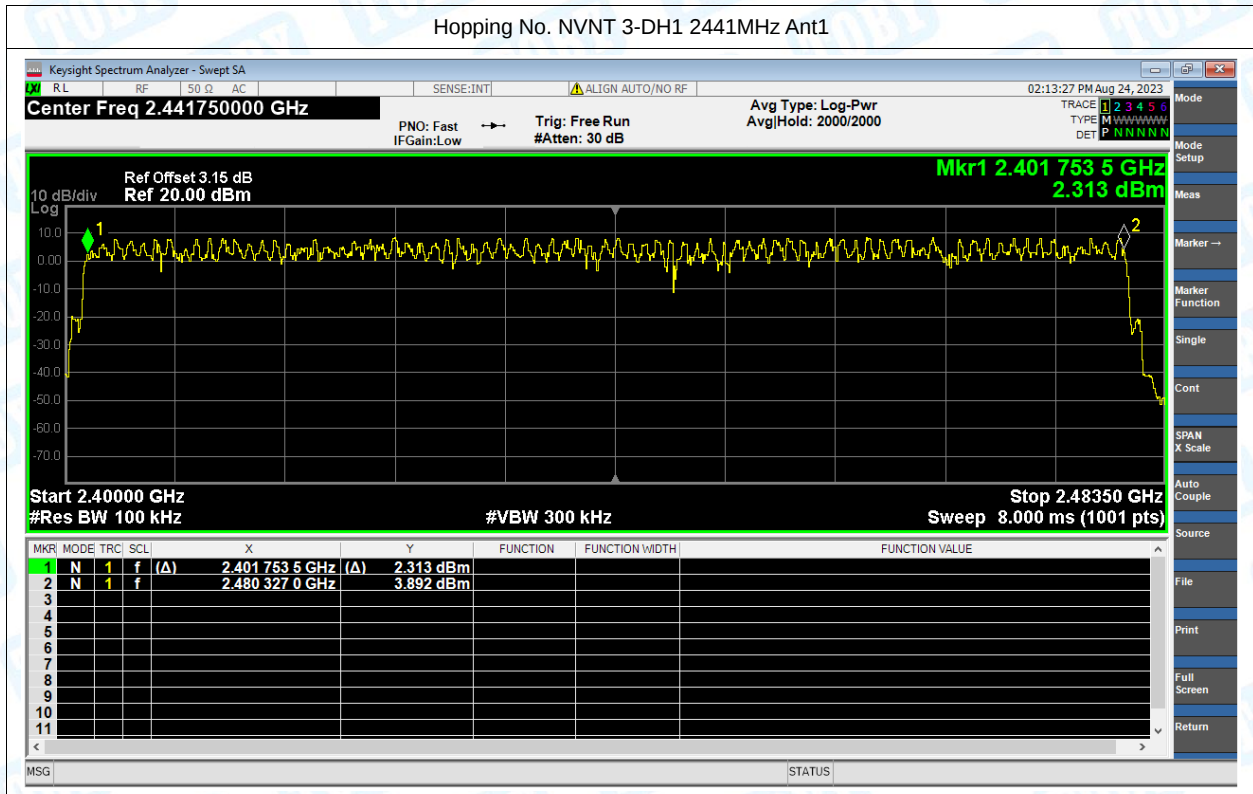
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



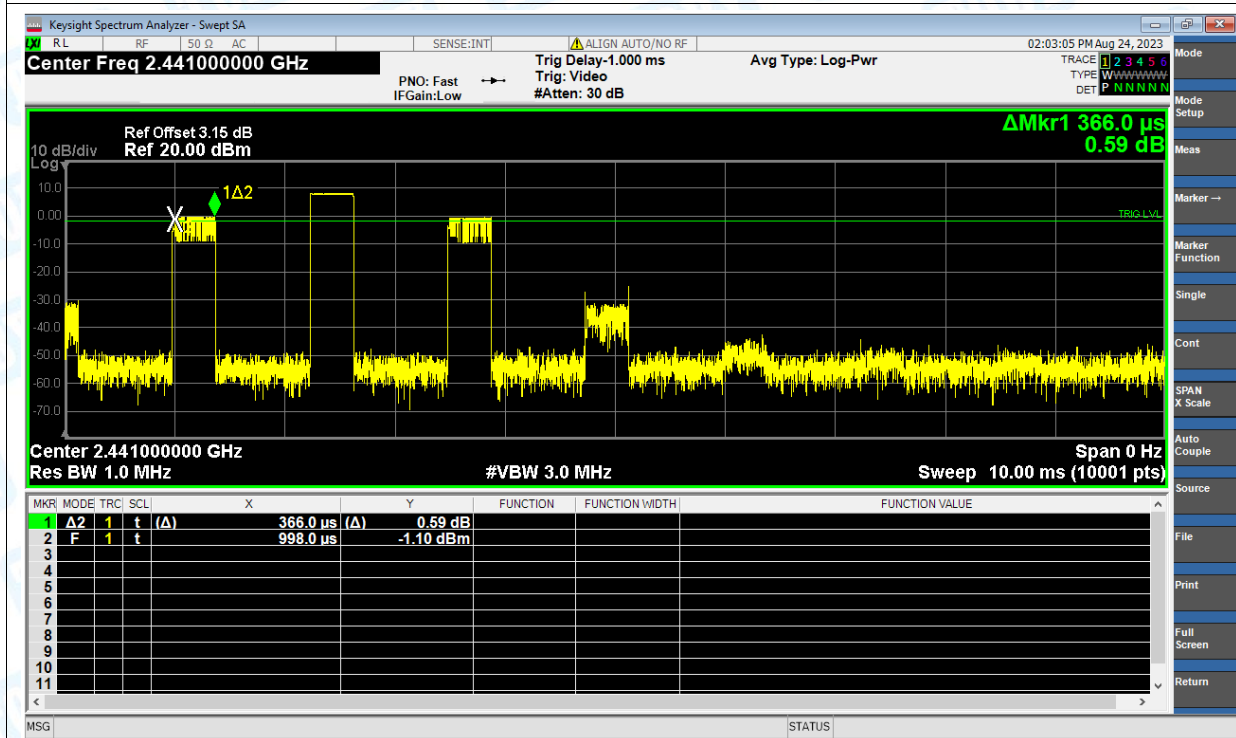


11. Dwell Time

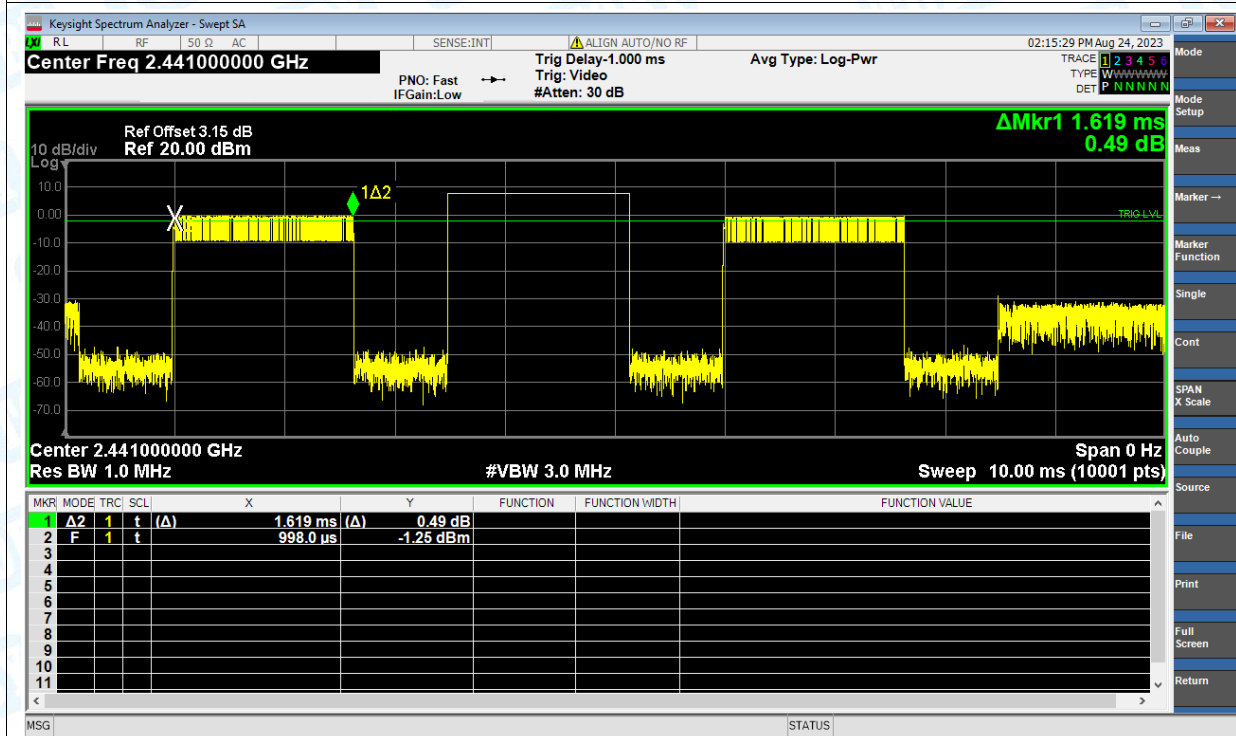
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.366	117.12	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.619	259.04	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.869	306.027	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.633	261.28	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	307.2	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.37	118.4	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.624	259.84	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.871	306.24	31600	400	Pass

Test Graphs

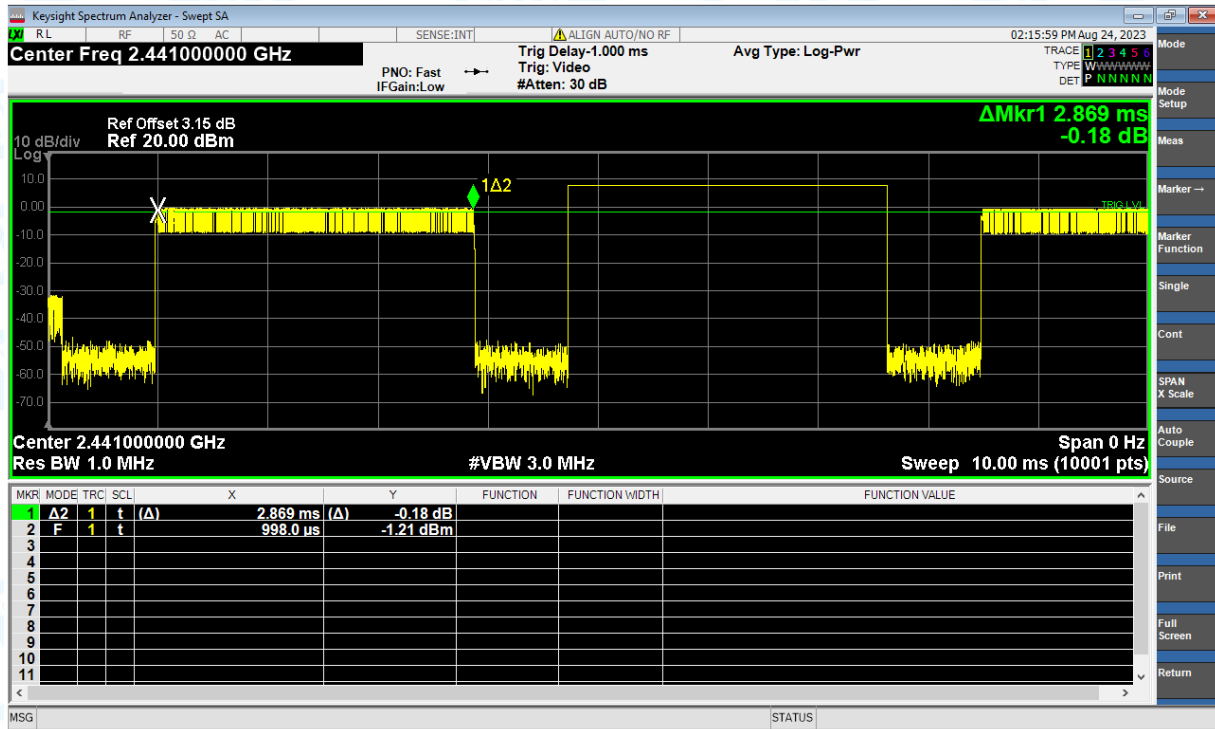
Dwell NVNT 1-DH1 2441MHz Ant1



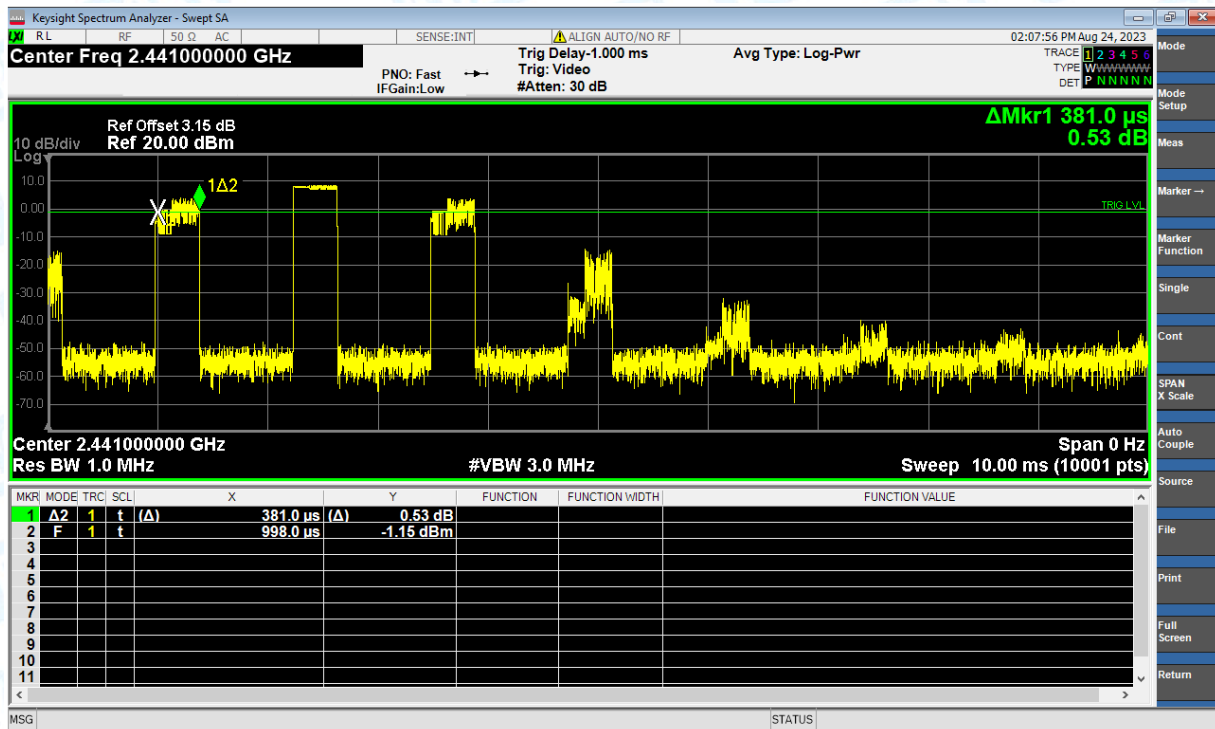
Dwell NVNT 1-DH3 2441MHz Ant1



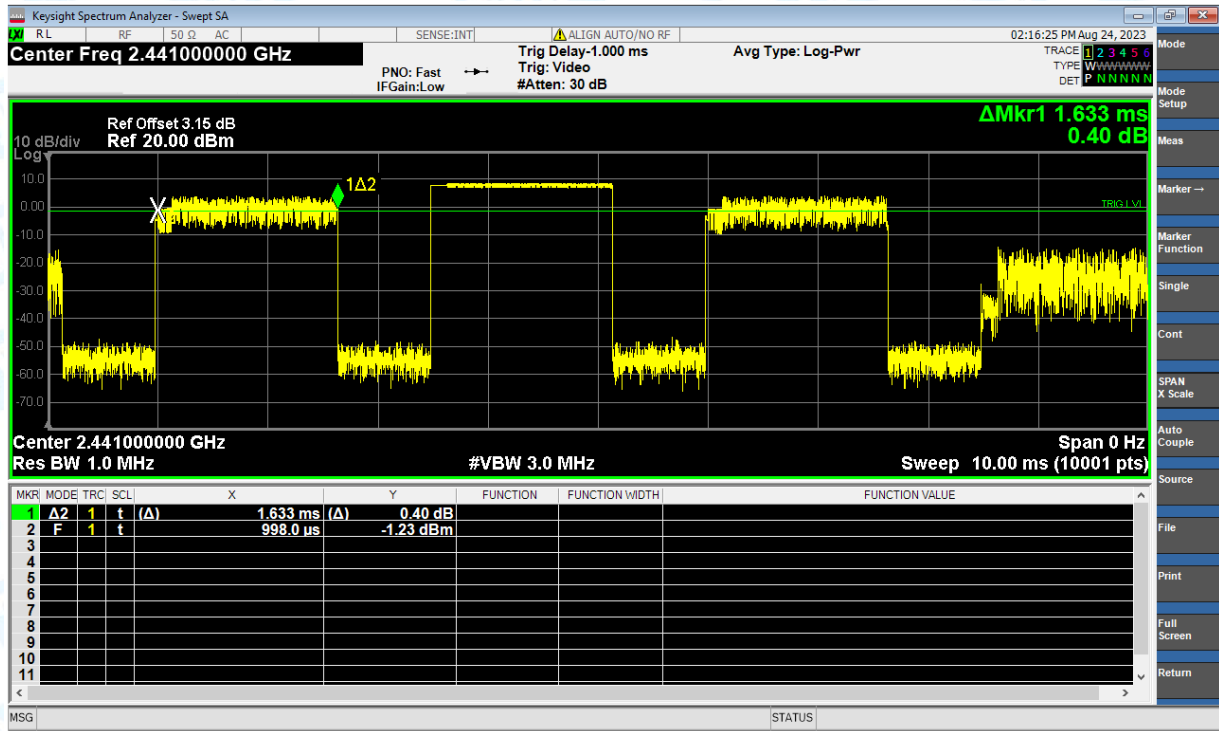
Dwell NVNT 1-DH5 2441MHz Ant1



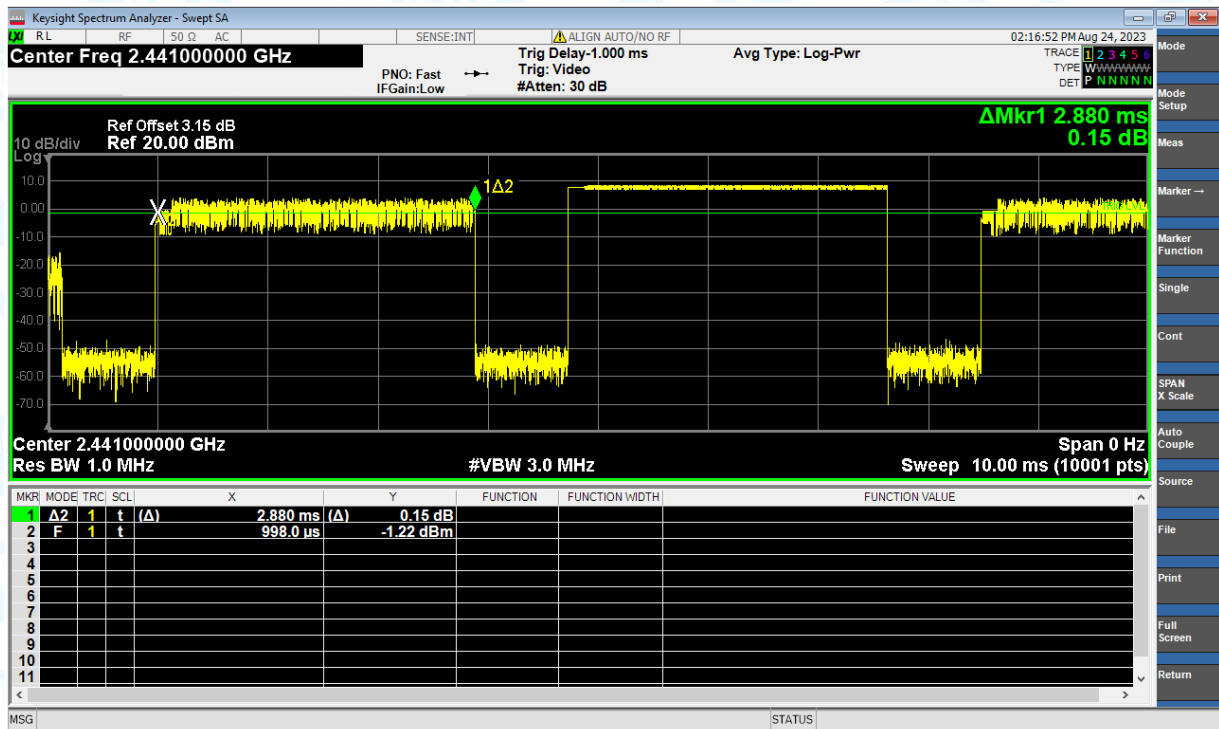
Dwell NVNT 2-DH1 2441MHz Ant1



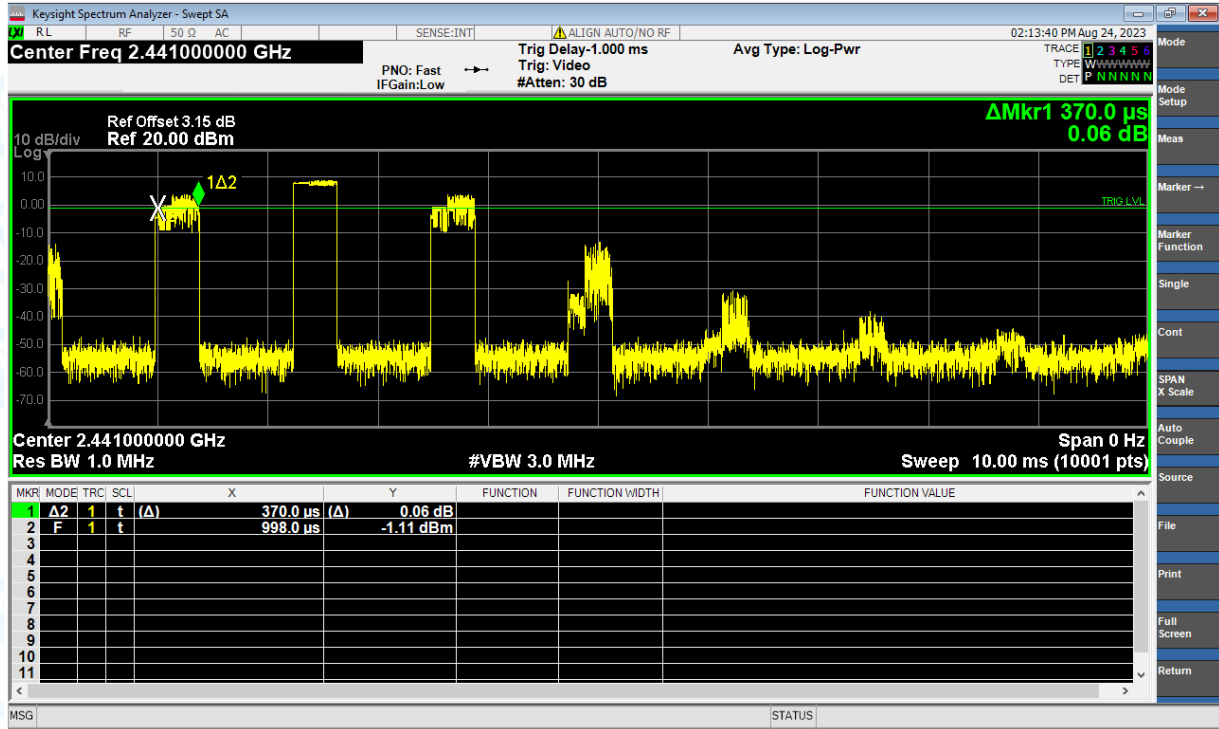
Dwell NVNT 2-DH3 2441MHz Ant1



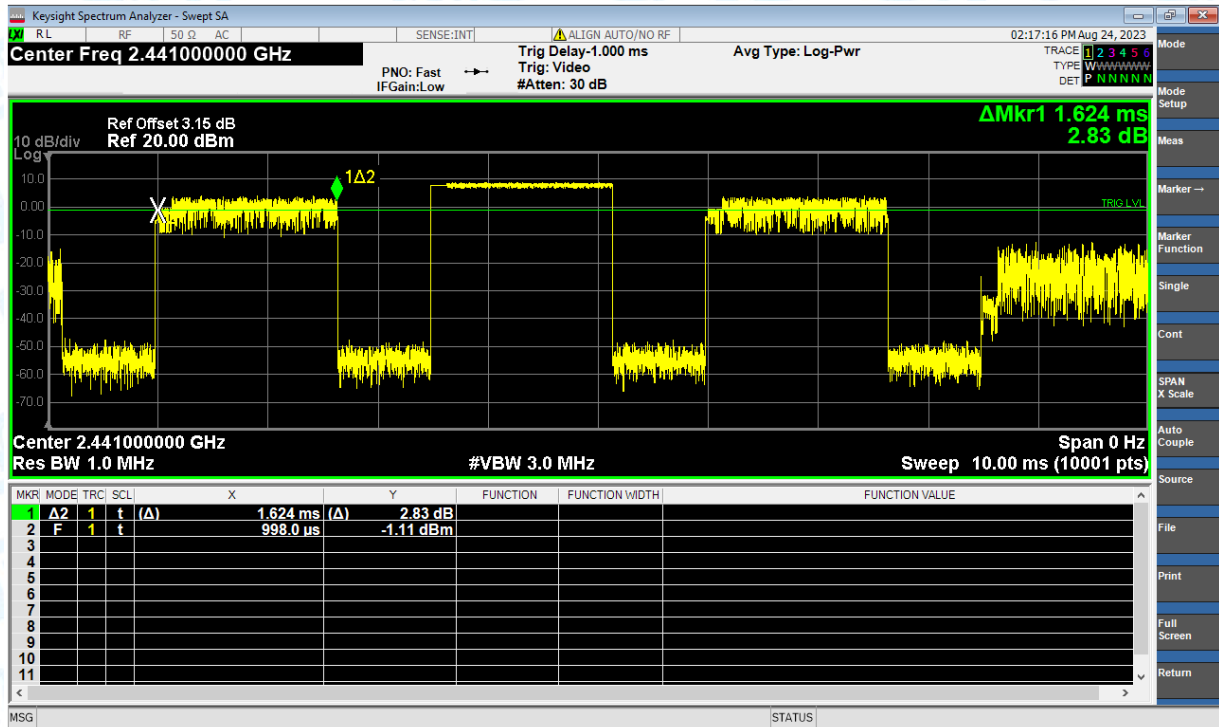
Dwell NVNT 2-DH5 2441MHz Ant1

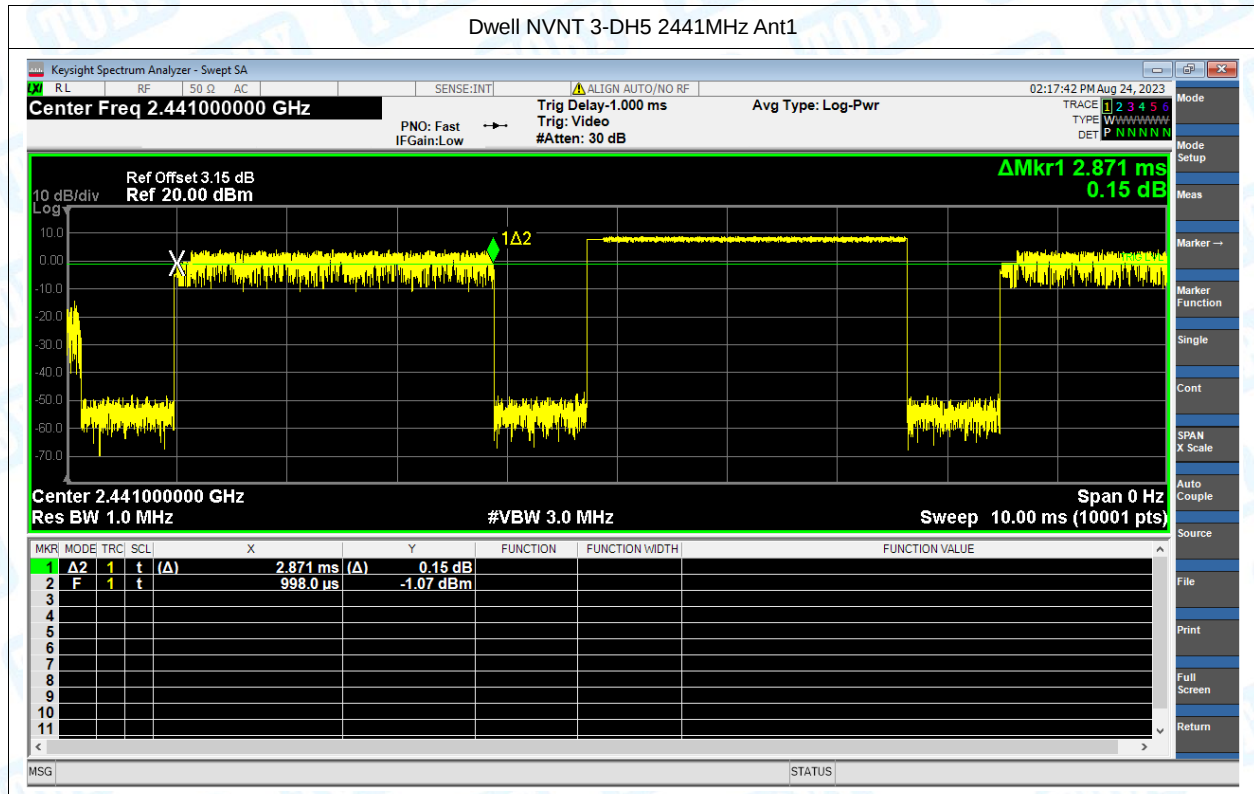


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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