

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	P12
Sample ID:	HC-C-202406-0231-02-02
Environmental Conditions	
Temperature:	24.2℃
Relative Humidity:	51%
Test Voltage:	DC 3.8V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202405-0231-52 The report only show the worst case data.	

Contents

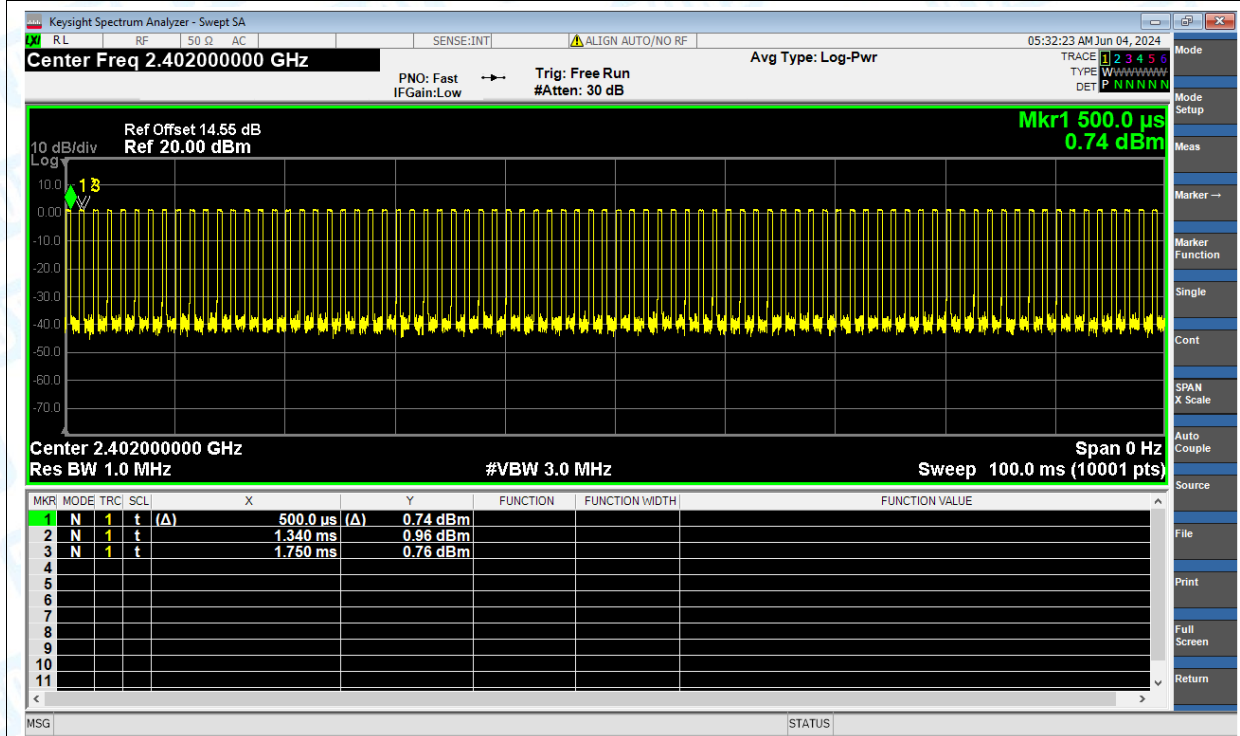
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1. Duty Cycle

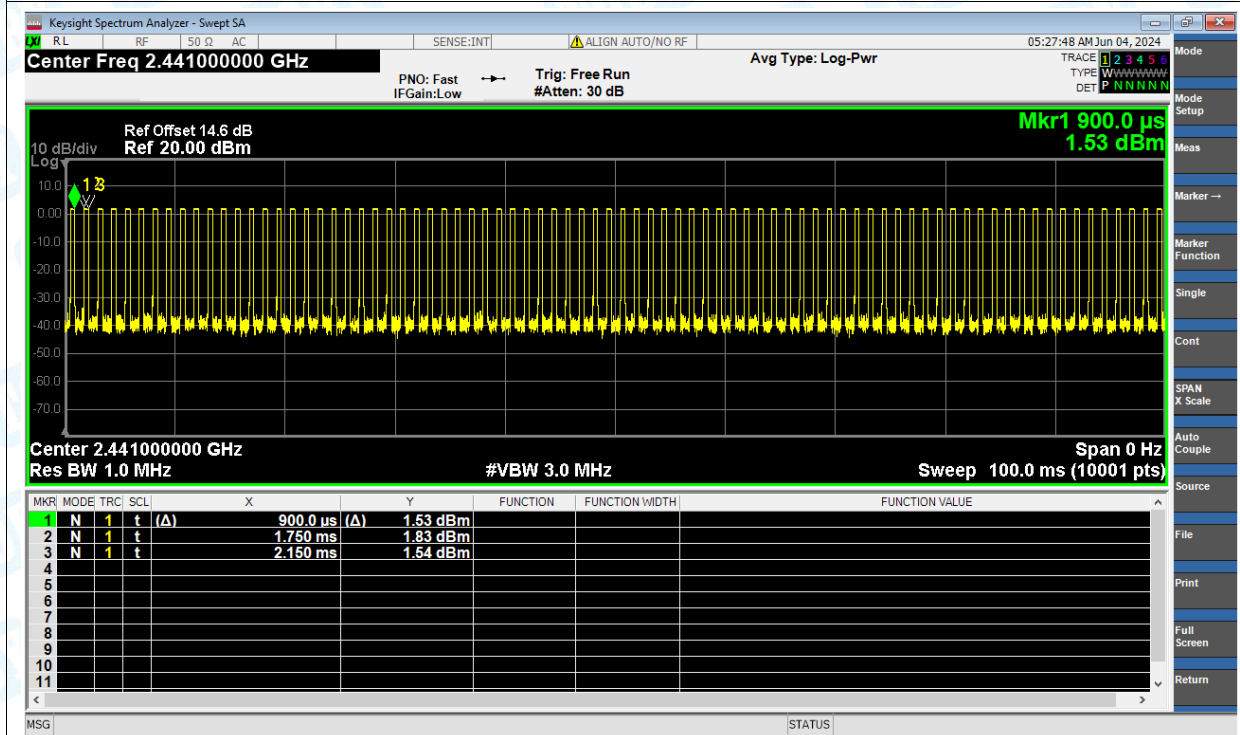
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32	4.95	2.5
NVNT	1-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	32	4.95	2.5
NVNT	3-DH1	2480	Ant1	32	4.95	2.5

Test Graphs

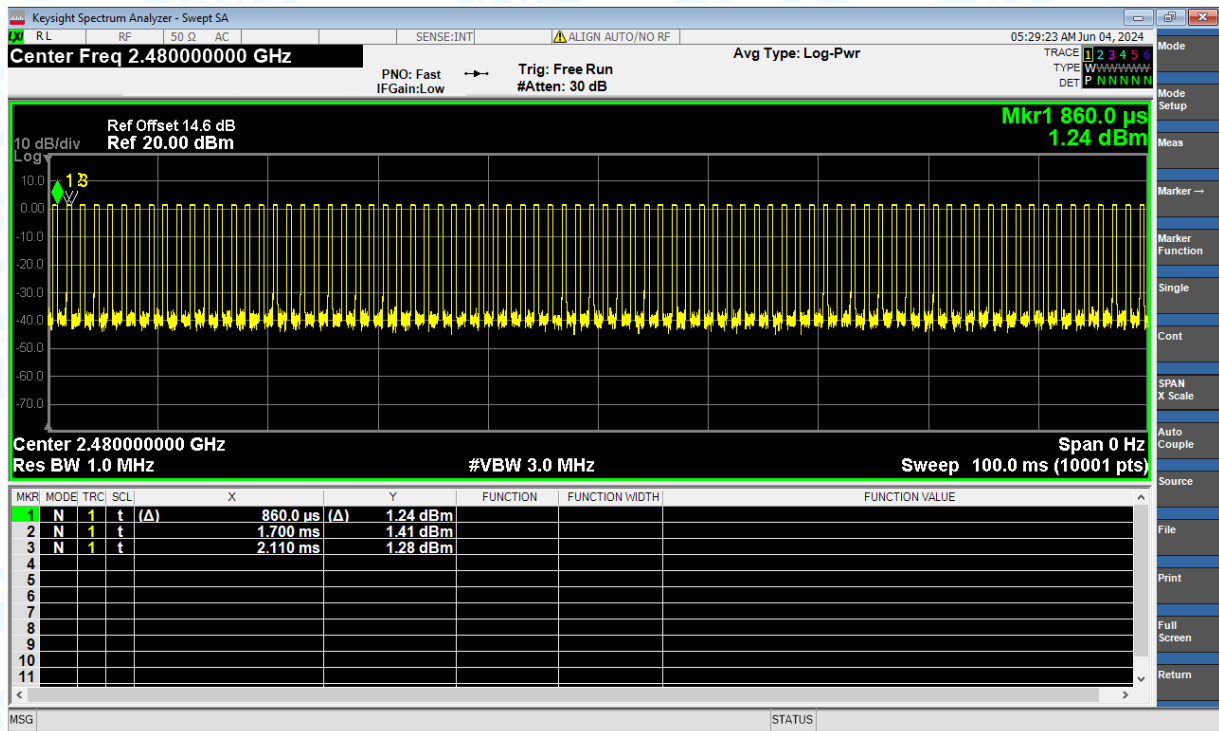
Duty Cycle NVNT 1-DH1 2402MHz Ant1



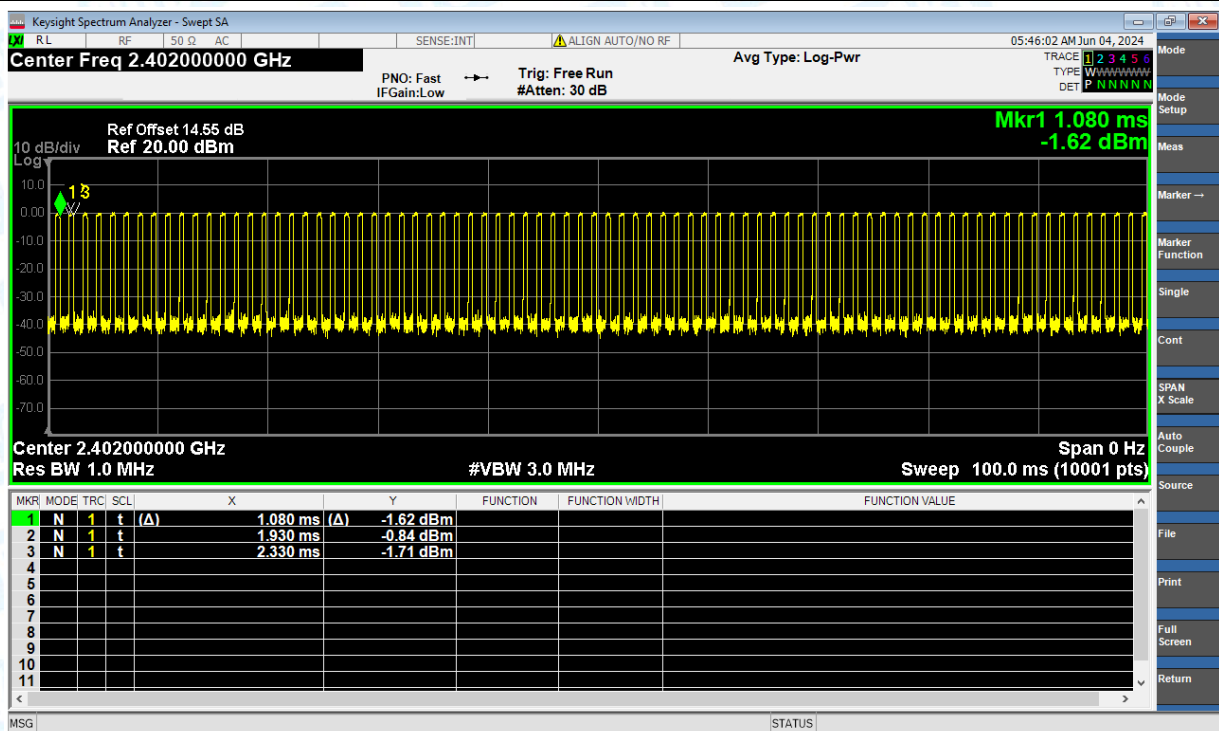
Duty Cycle NVNT 1-DH1 2441MHz Ant1



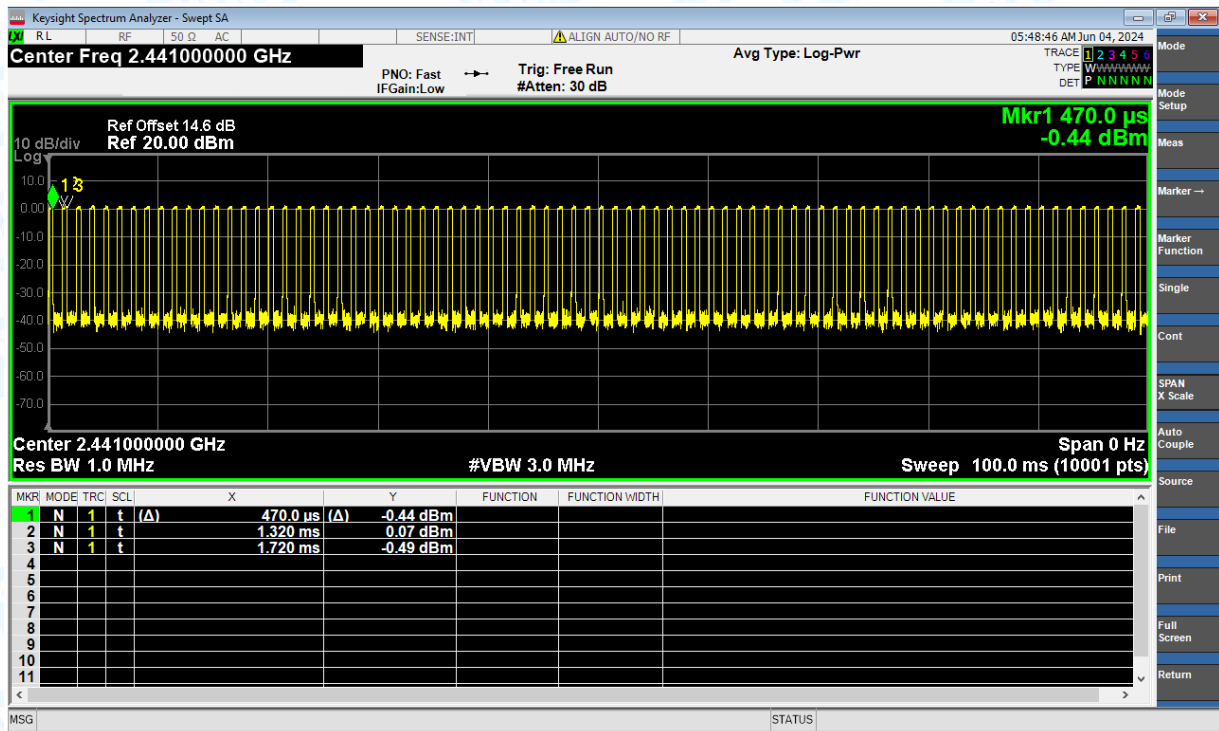
Duty Cycle NVNT 1-DH1 2480MHz Ant1



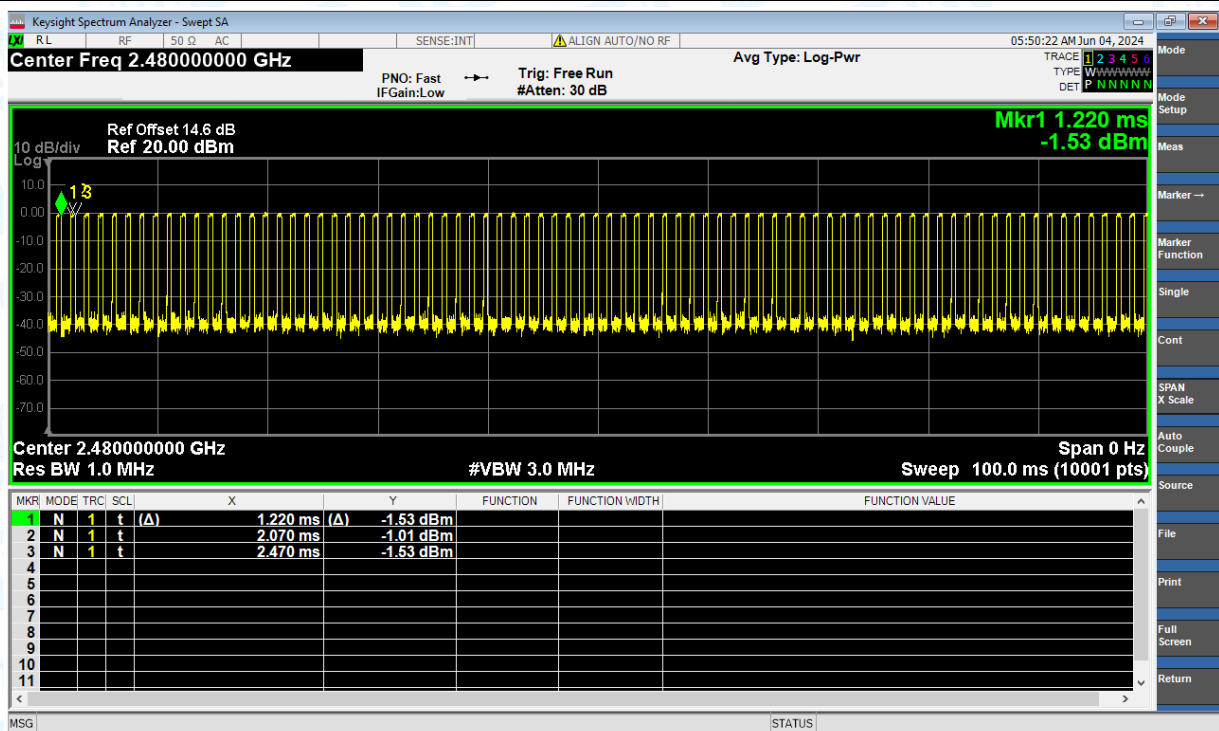
Duty Cycle NVNT 2-DH1 2402MHz Ant1



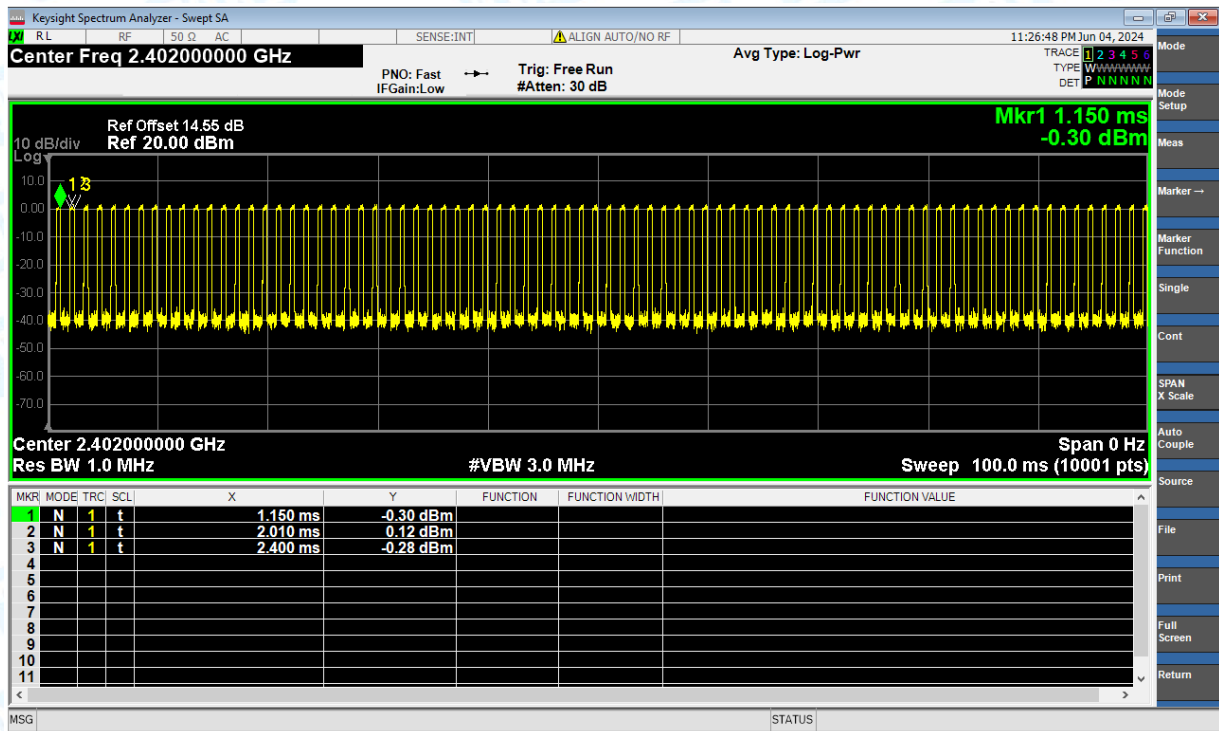
Duty Cycle NVNT 2-DH1 2441MHz Ant1



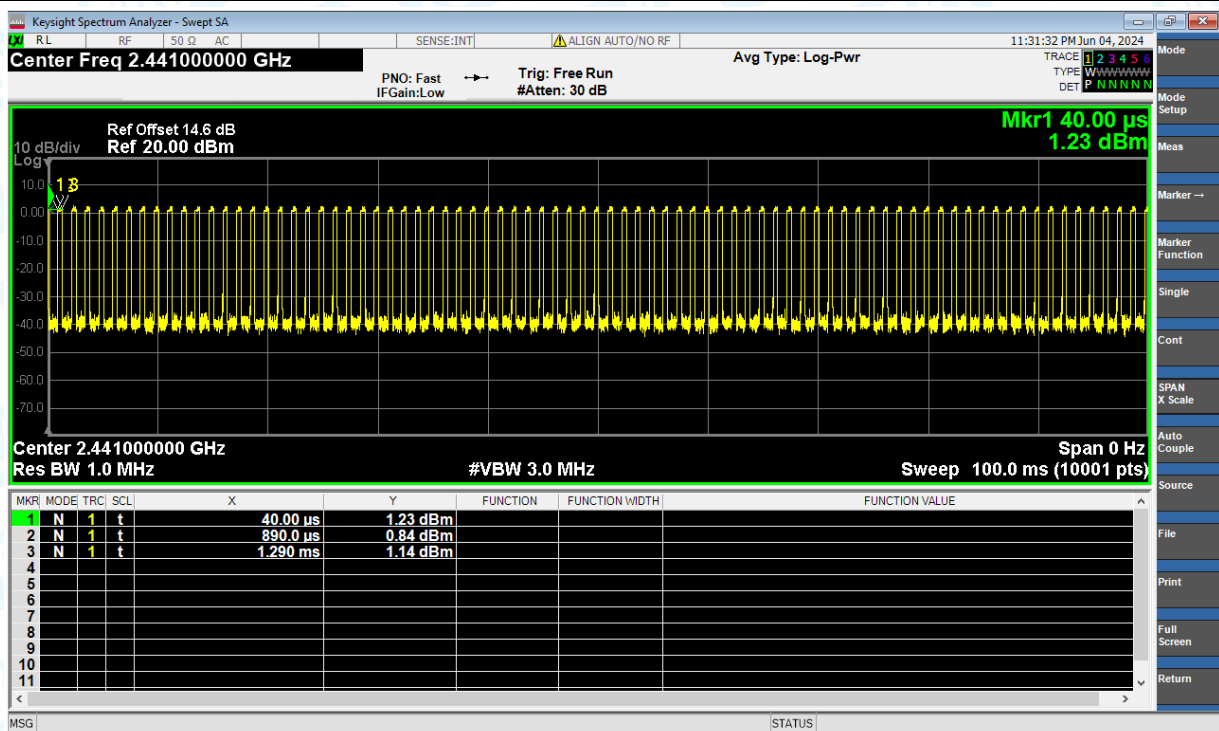
Duty Cycle NVNT 2-DH1 2480MHz Ant1

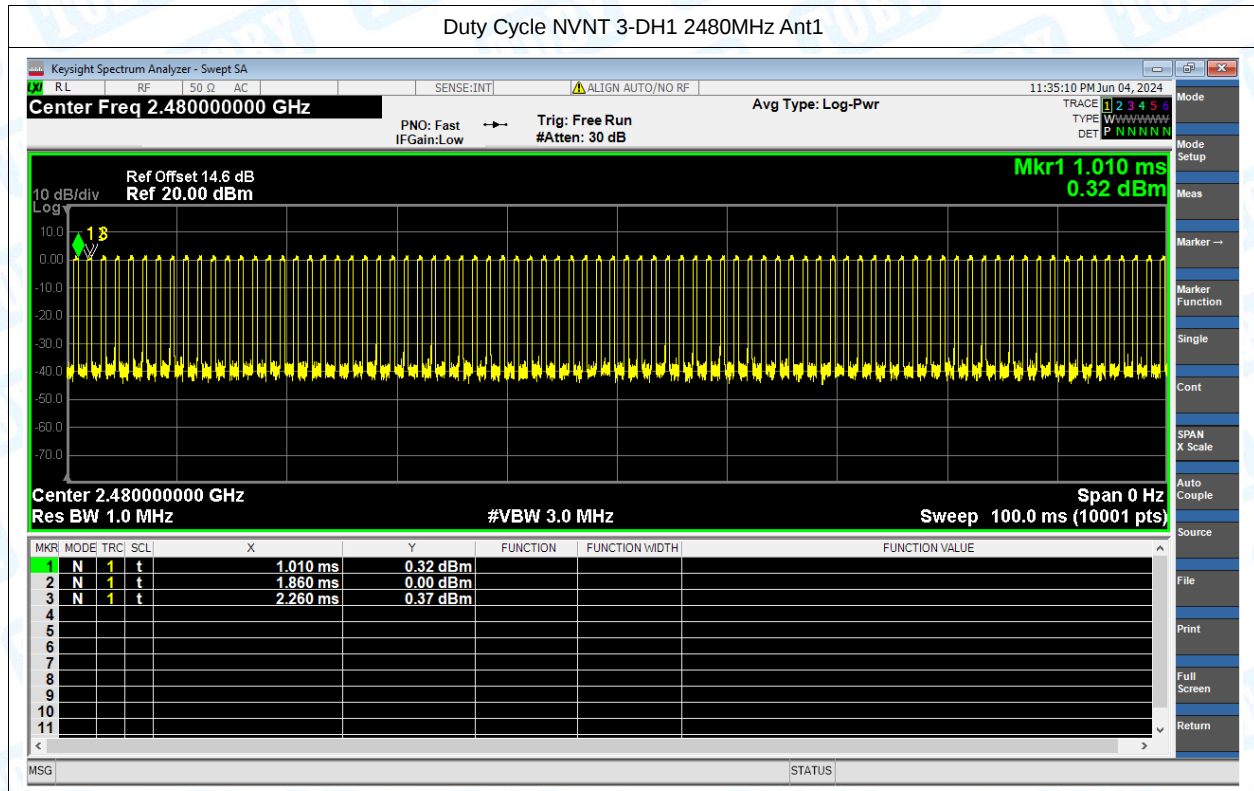


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



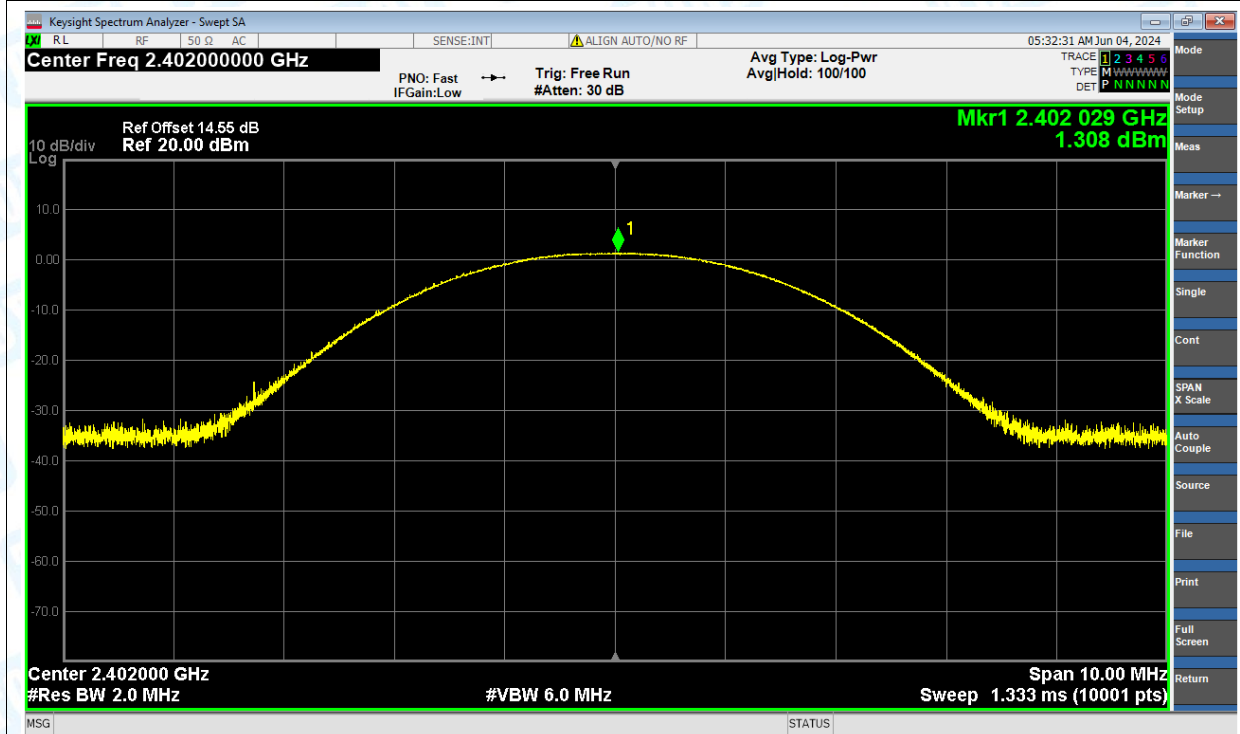


2. Maximum Conducted Output Power

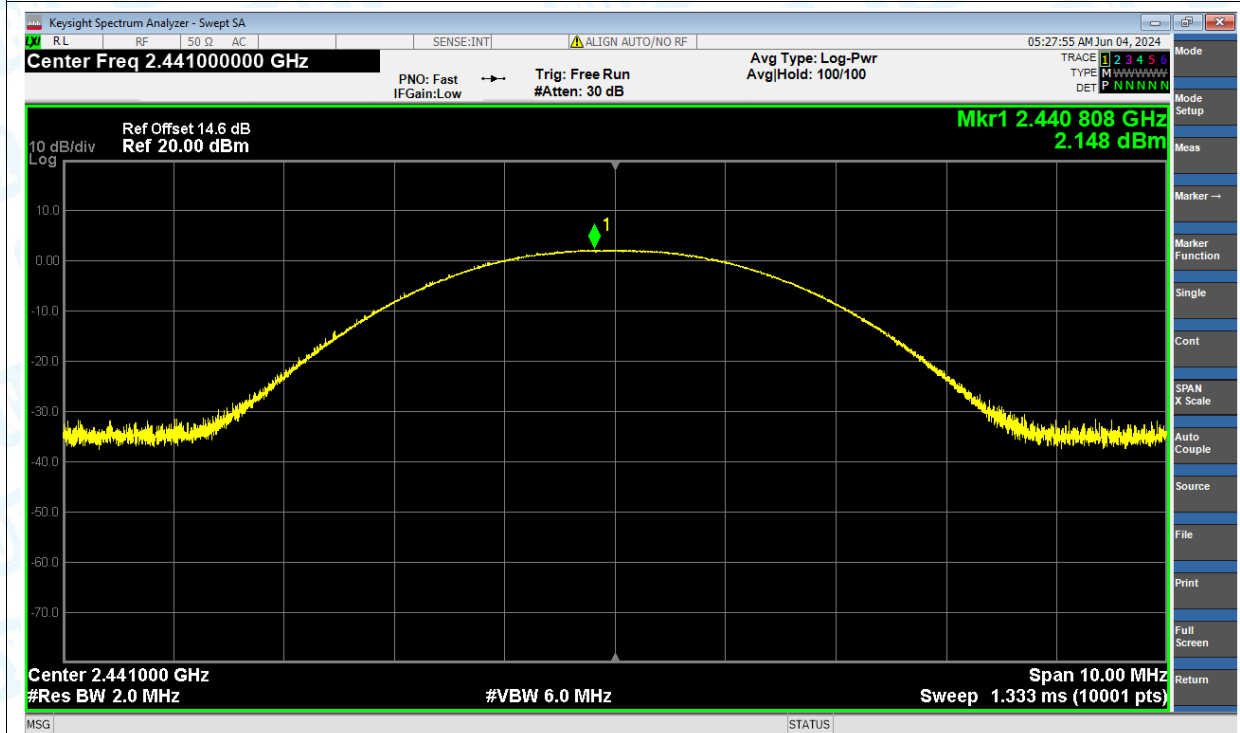
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.308	21	Pass
NVNT	1-DH1	2441	Ant1	2.148	21	Pass
NVNT	1-DH1	2480	Ant1	1.818	21	Pass
NVNT	1-DH3	2441	Ant1	2.139	21	Pass
NVNT	1-DH5	2441	Ant1	2.08	21	Pass
NVNT	2-DH1	2402	Ant1	0.769	21	Pass
NVNT	2-DH1	2441	Ant1	1.719	21	Pass
NVNT	2-DH1	2480	Ant1	0.71	21	Pass
NVNT	2-DH3	2441	Ant1	2.233	21	Pass
NVNT	2-DH5	2441	Ant1	2.058	21	Pass
NVNT	3-DH1	2402	Ant1	1.913	21	Pass
NVNT	3-DH1	2441	Ant1	2.988	21	Pass
NVNT	3-DH1	2480	Ant1	2.157	21	Pass
NVNT	3-DH3	2441	Ant1	2.248	21	Pass
NVNT	3-DH5	2441	Ant1	2.077	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



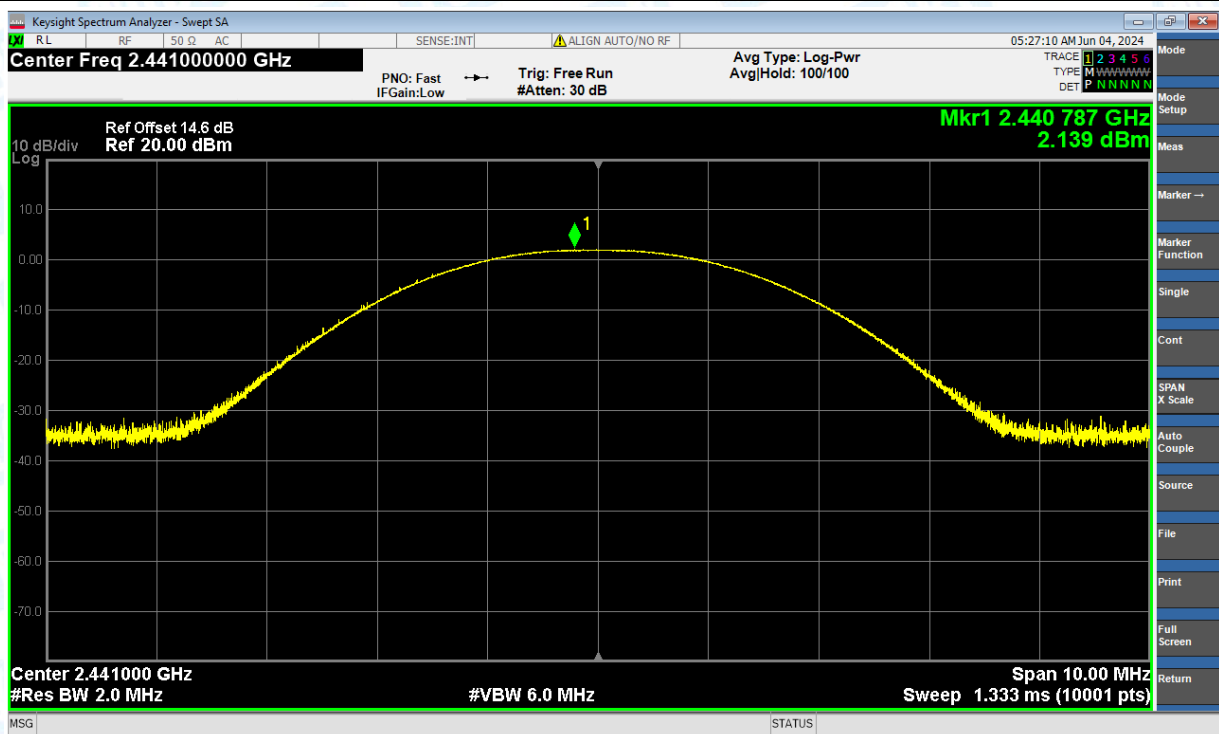
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 1-DH3 2441MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



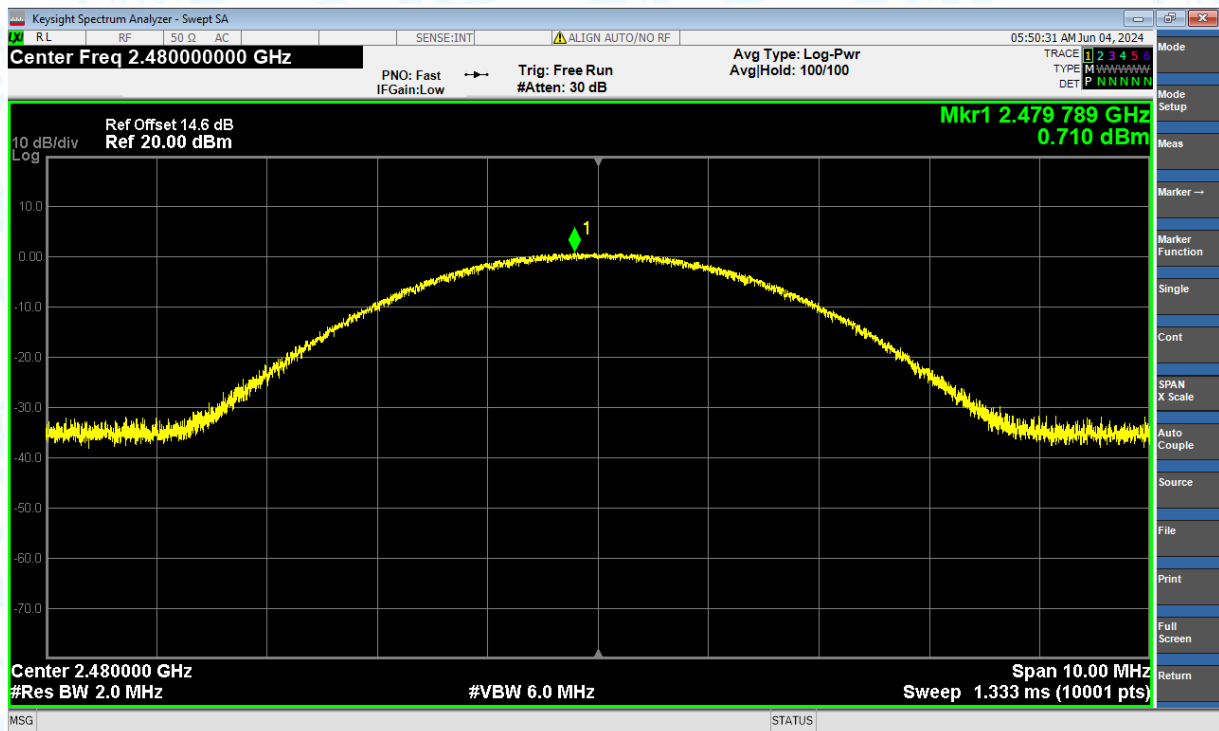
Power NVNT 2-DH1 2402MHz Ant1



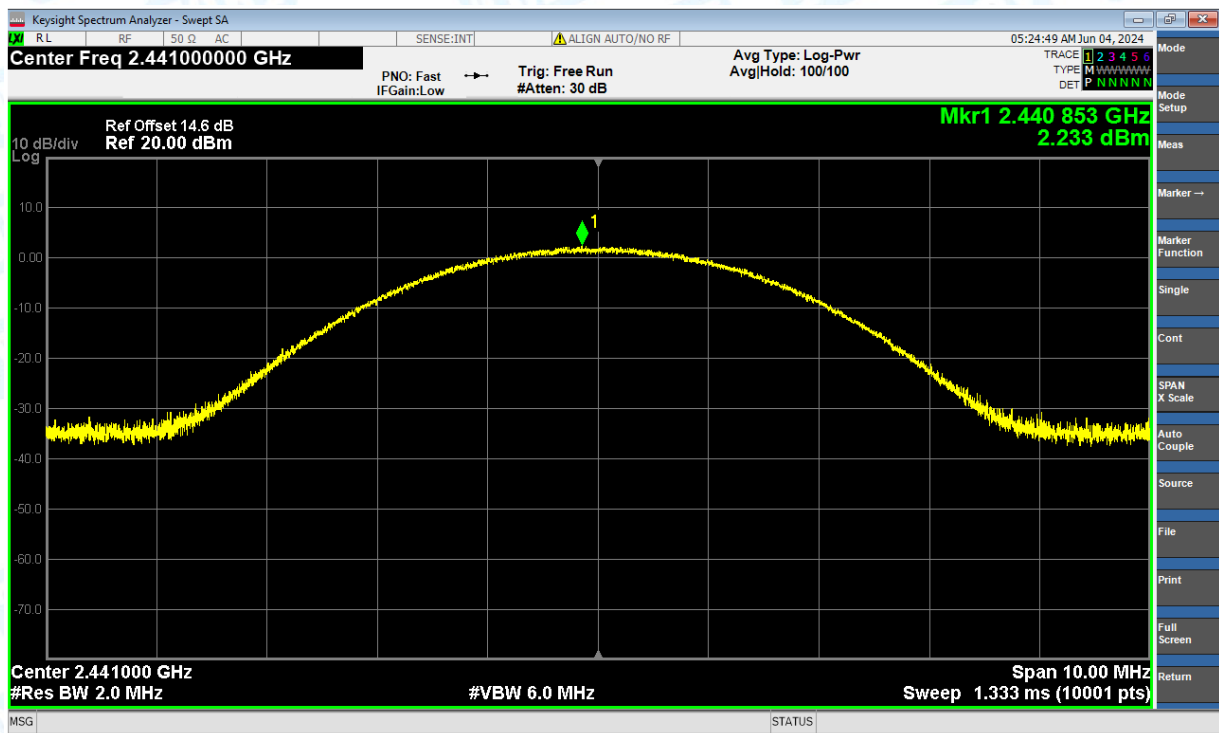
Power NVNT 2-DH1 2441MHz Ant1



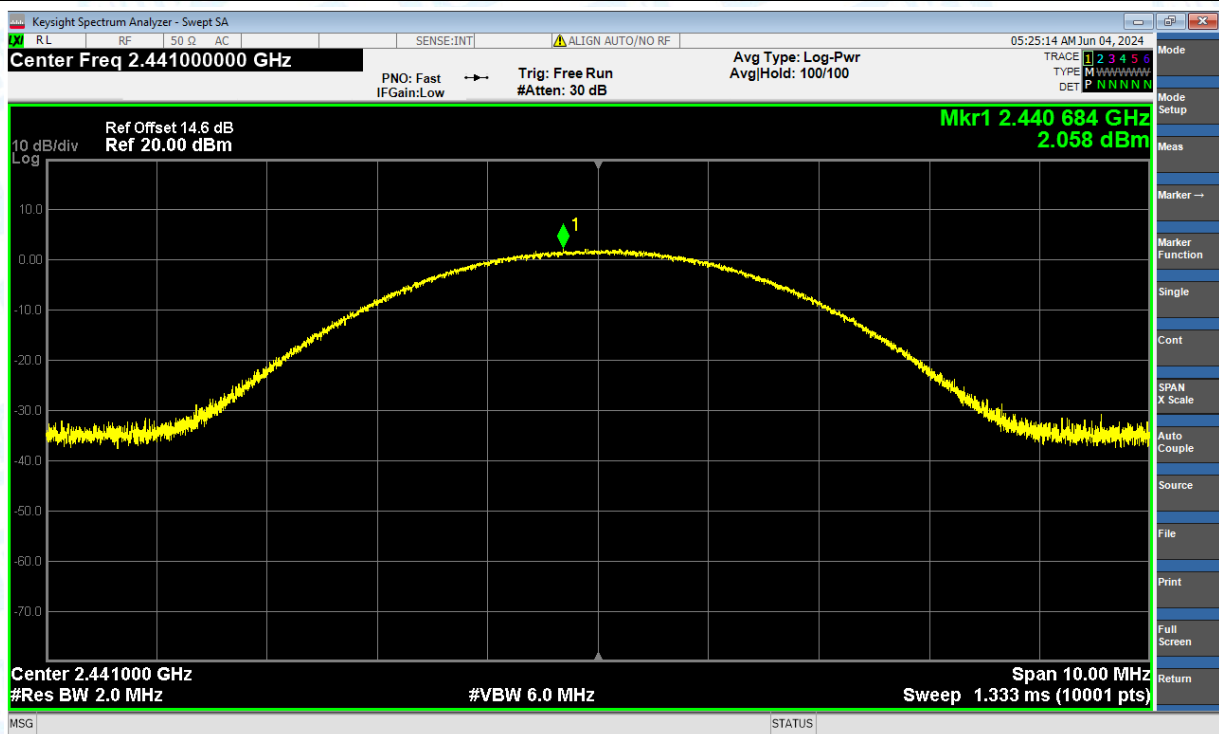
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



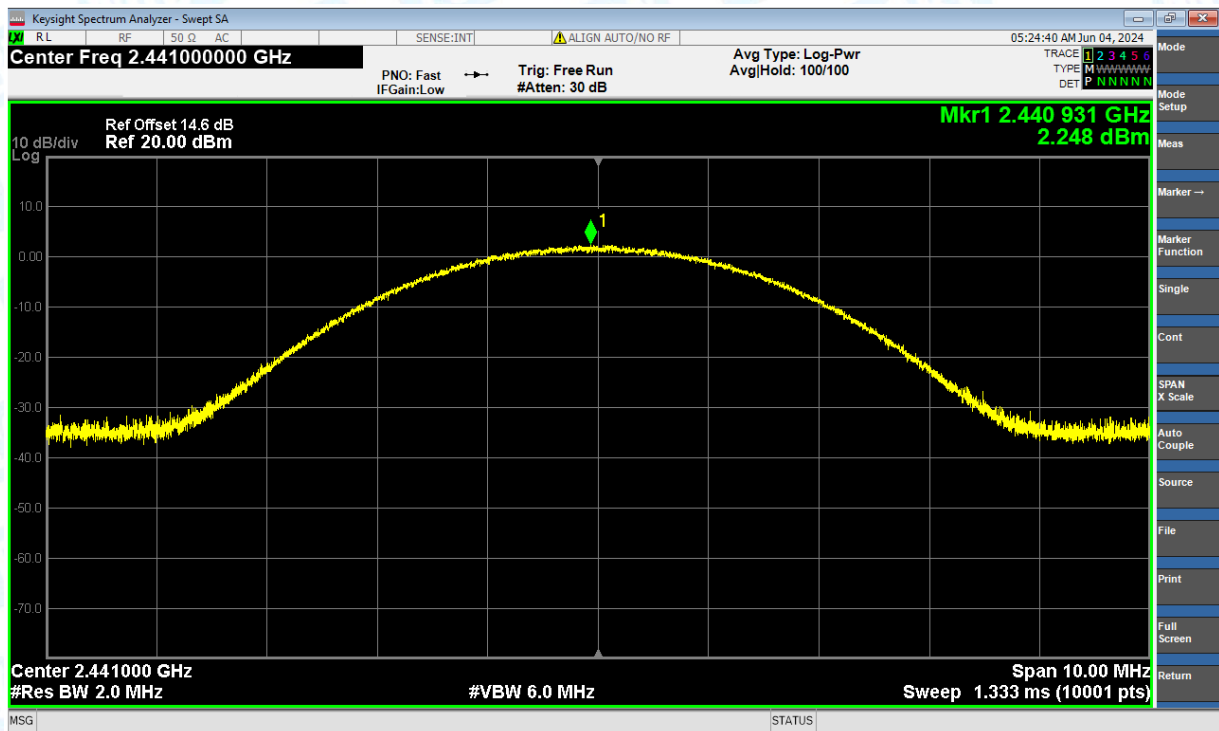
Power NVNT 3-DH1 2441MHz Ant1

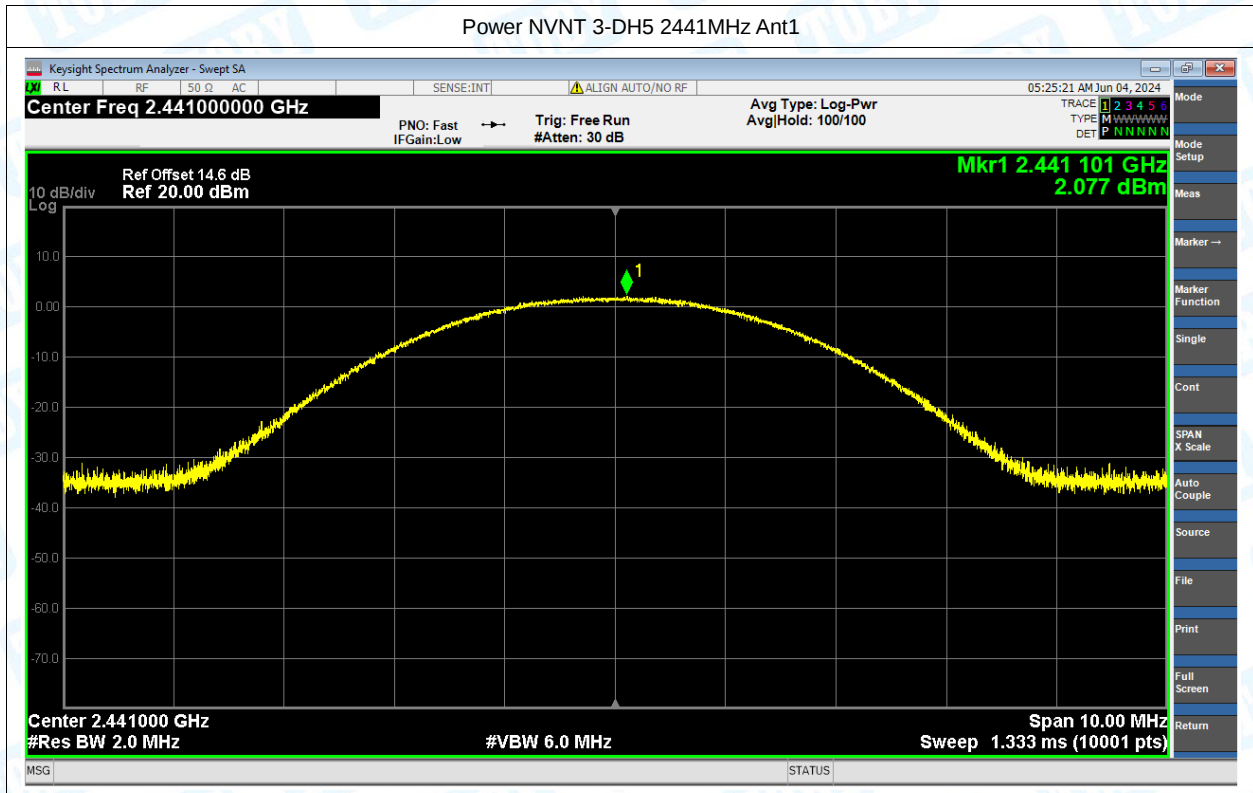


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



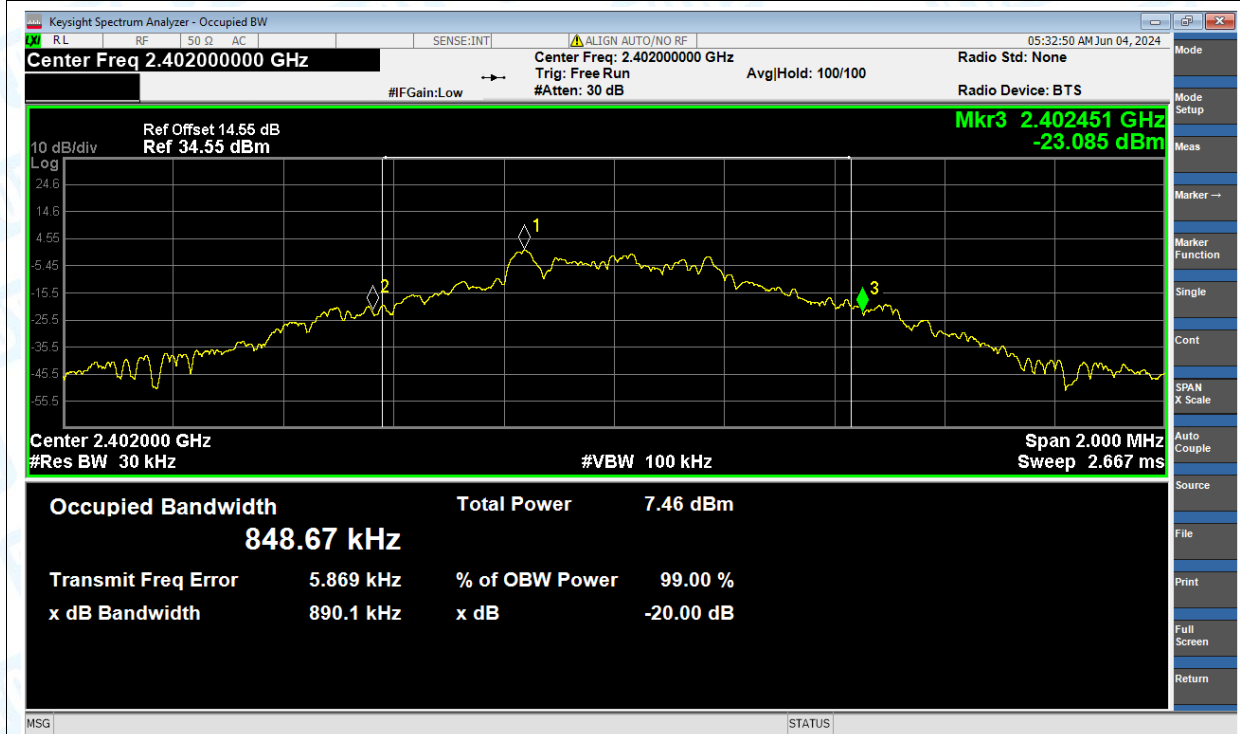


3. -20dB Bandwidth

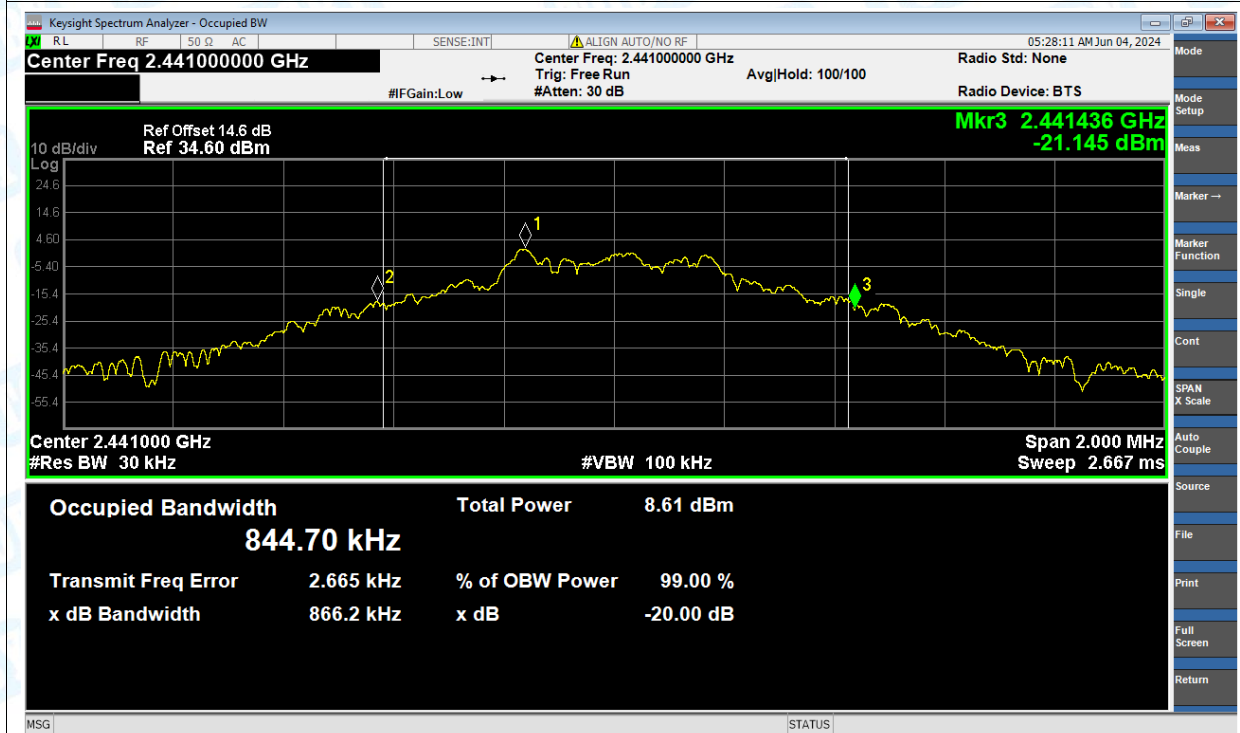
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.89	0	Pass
NVNT	1-DH1	2441	Ant1	0.87	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.27	0	Pass
NVNT	2-DH1	2441	Ant1	1.27	0	Pass
NVNT	2-DH1	2480	Ant1	1.26	0	Pass
NVNT	3-DH1	2402	Ant1	1.26	0	Pass
NVNT	3-DH1	2441	Ant1	1.25	0	Pass
NVNT	3-DH1	2480	Ant1	1.27	0	Pass

Test Graphs

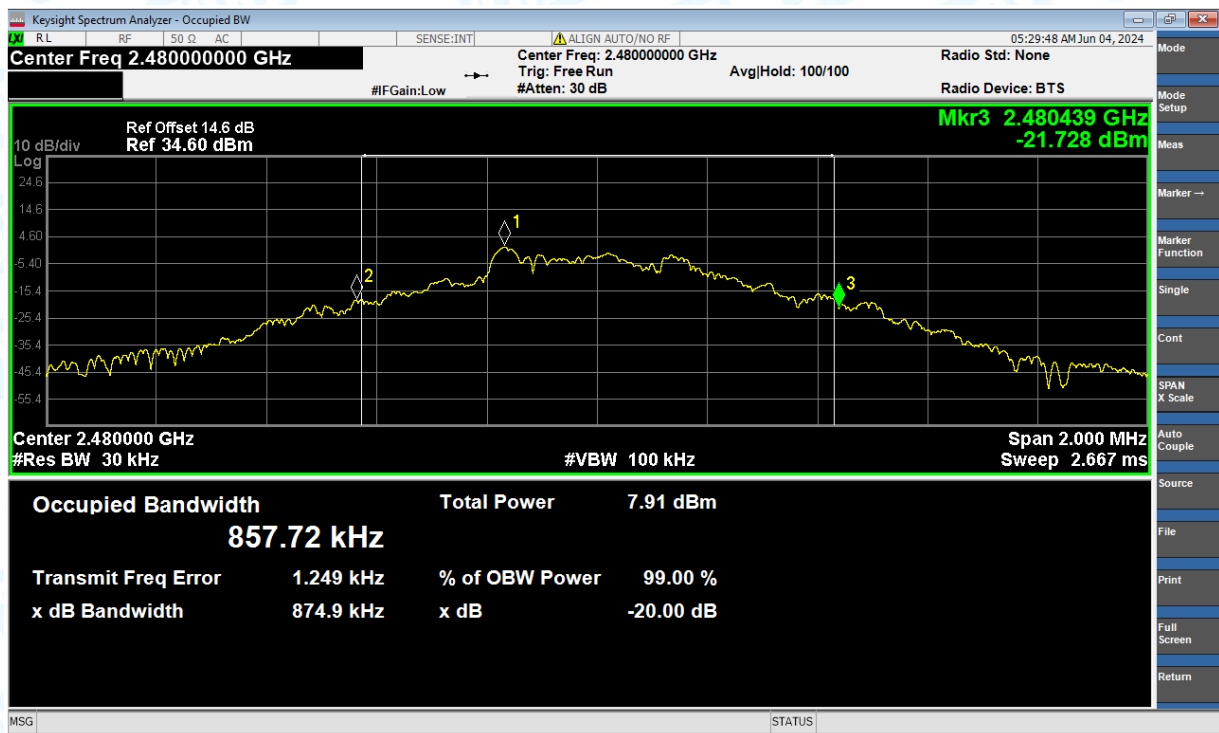
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



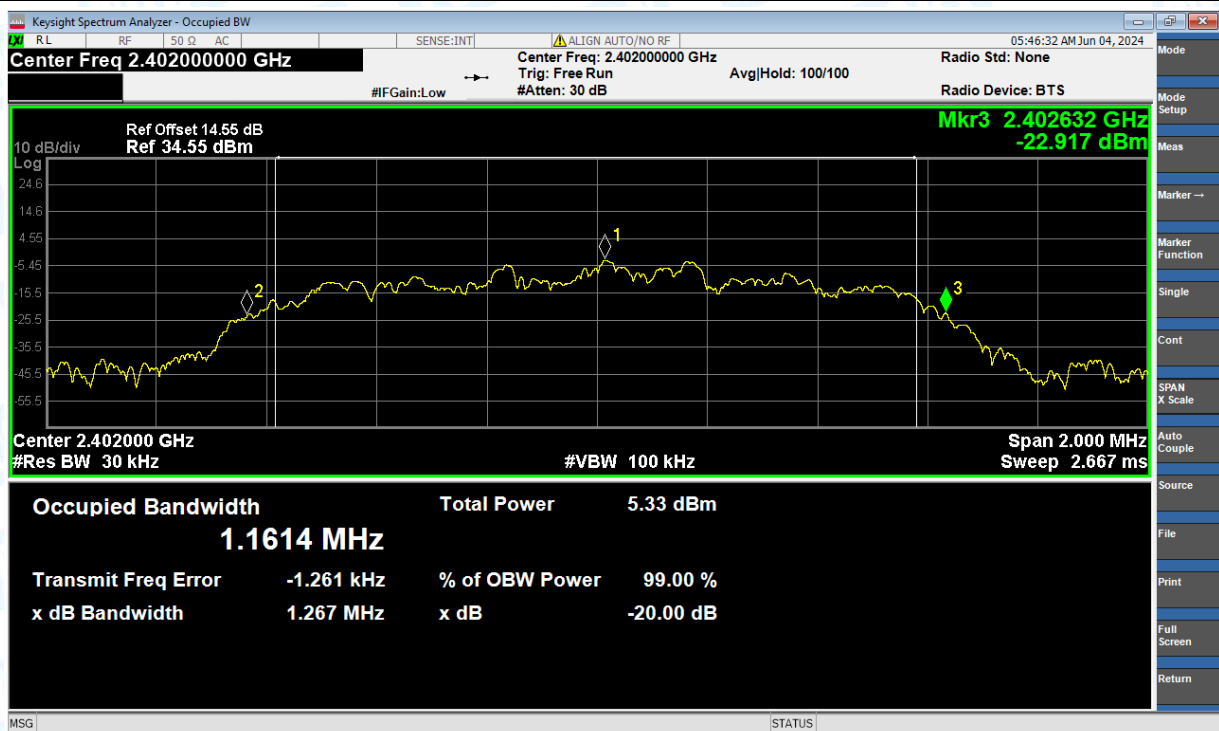
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



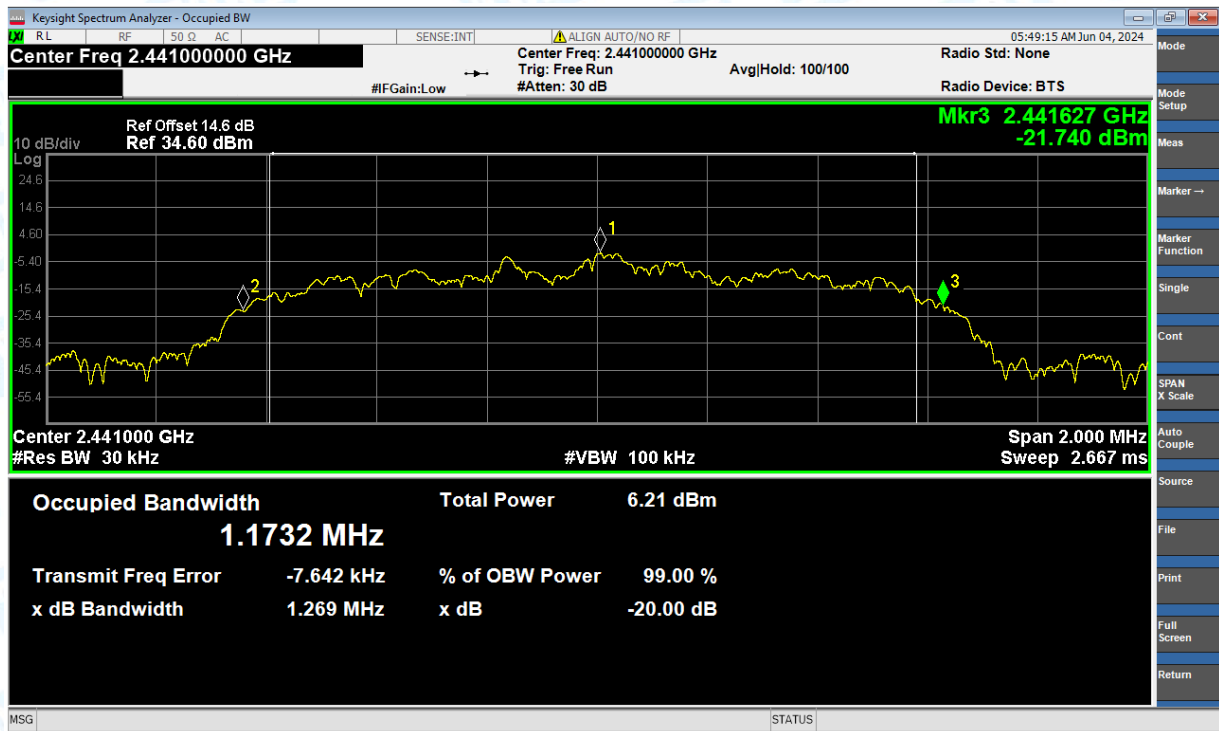
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



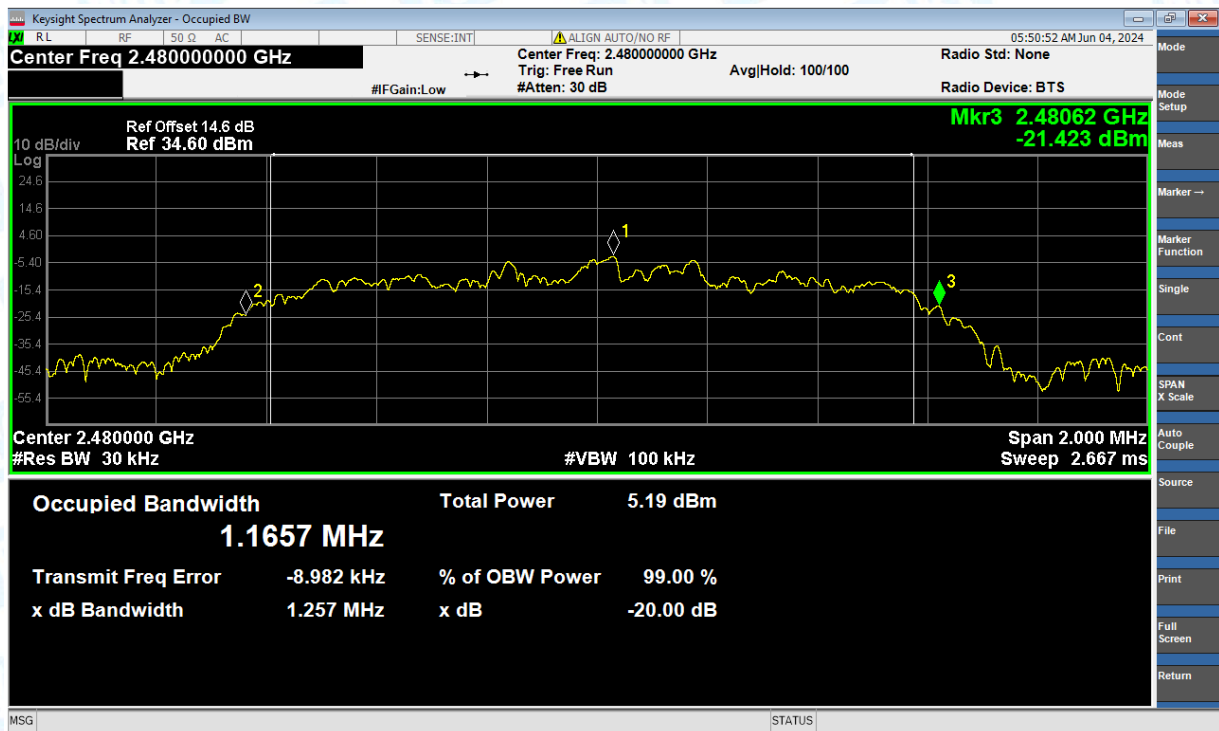
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



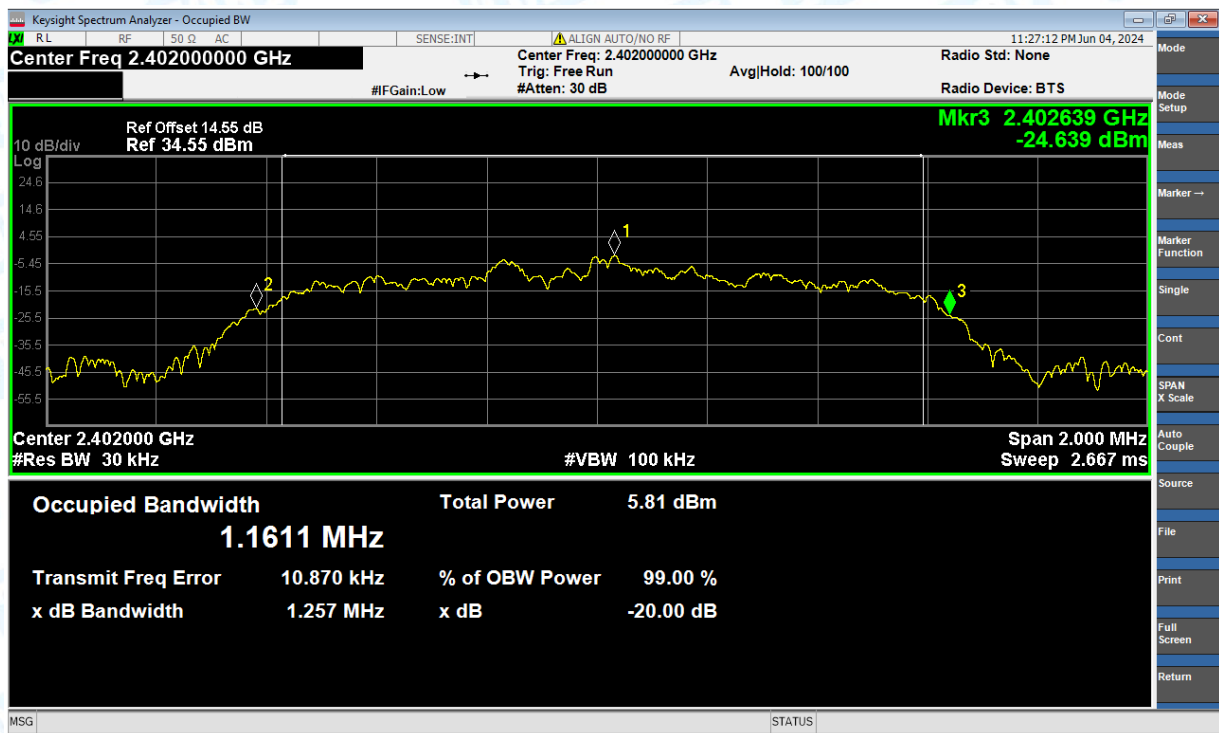
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



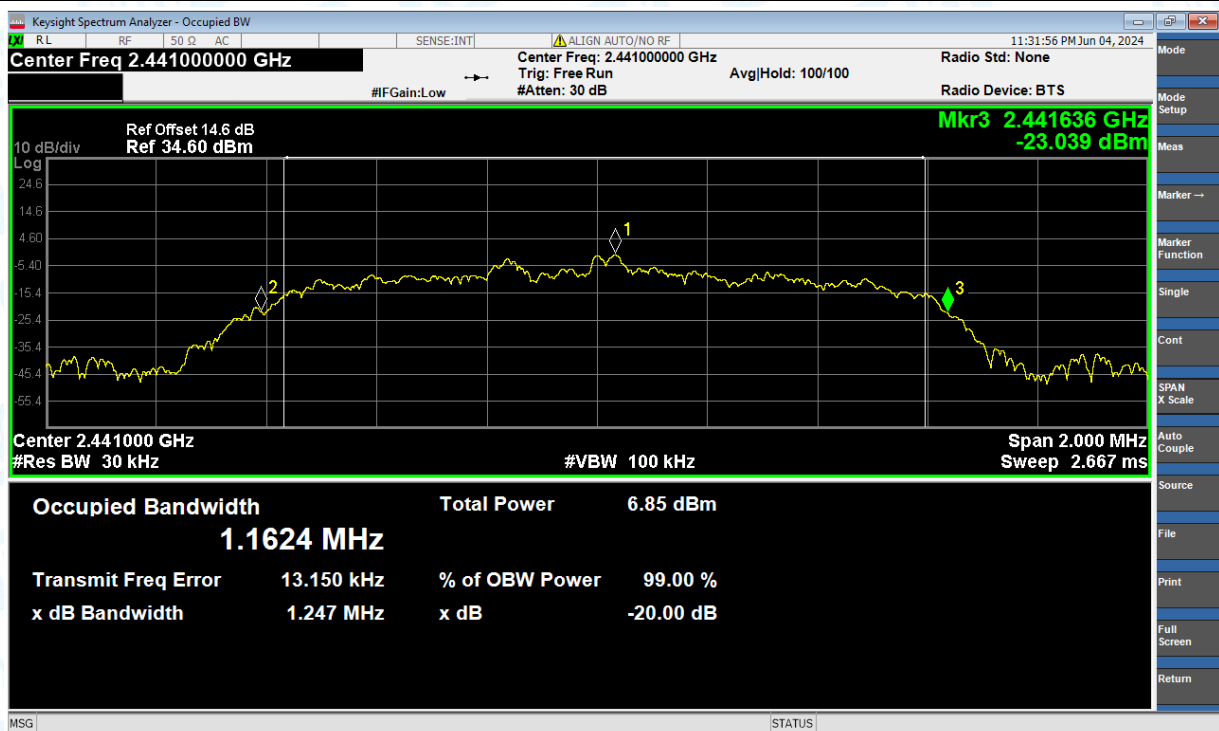
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

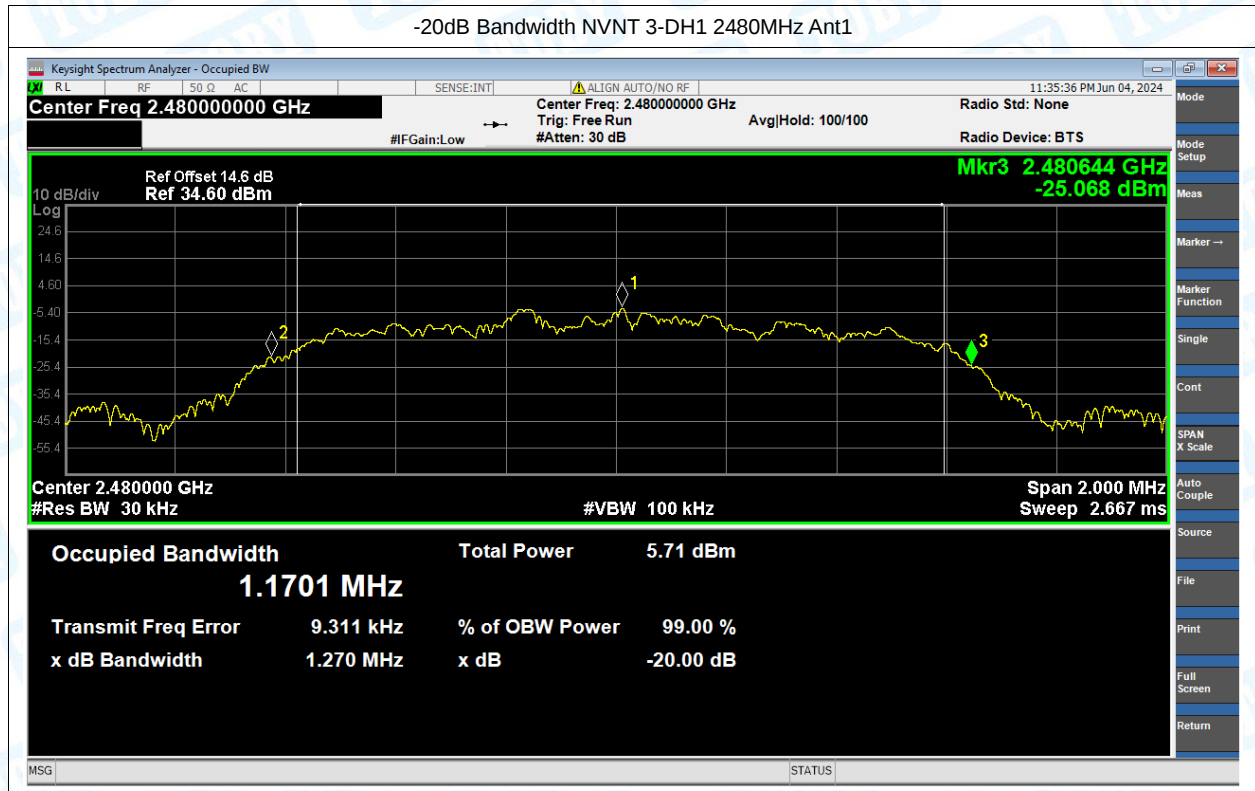


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



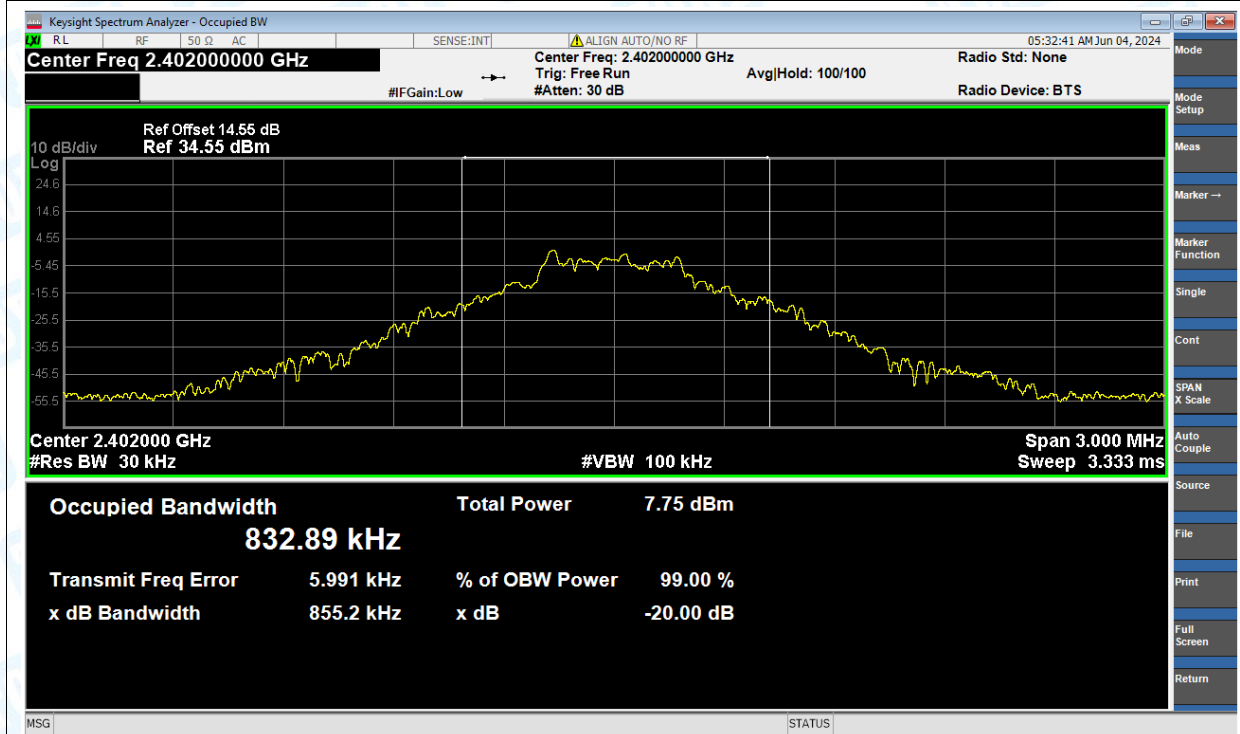


4. Occupied Channel Bandwidth

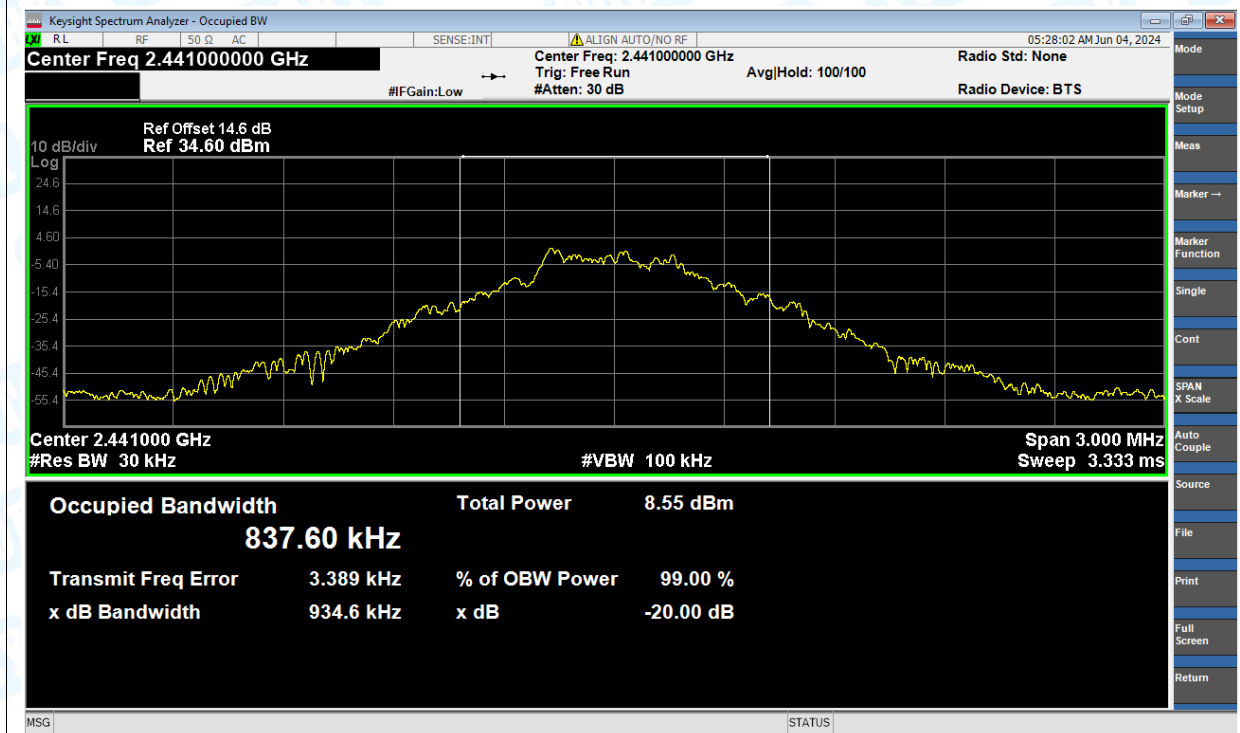
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.833
NVNT	1-DH1	2441	Ant1	0.838
NVNT	1-DH1	2480	Ant1	0.849
NVNT	2-DH1	2402	Ant1	1.164
NVNT	2-DH1	2441	Ant1	1.165
NVNT	2-DH1	2480	Ant1	1.172
NVNT	3-DH1	2402	Ant1	1.154
NVNT	3-DH1	2441	Ant1	1.163
NVNT	3-DH1	2480	Ant1	1.158

Test Graphs

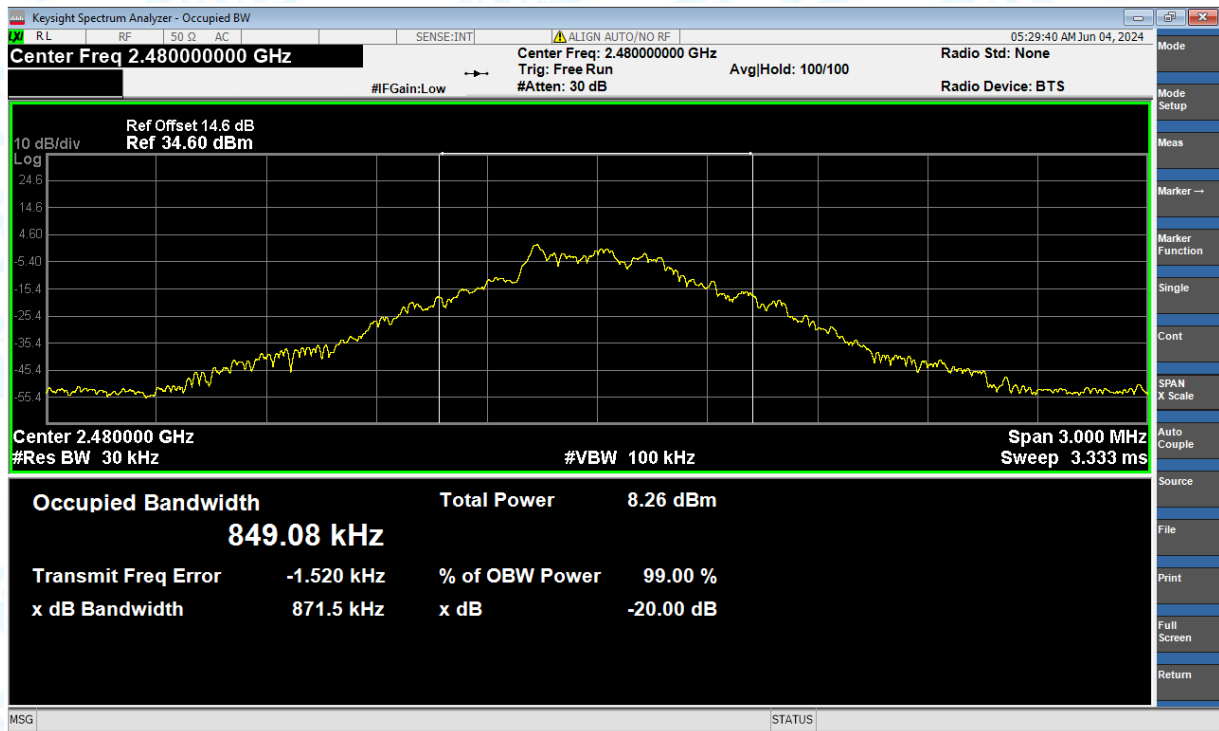
OBW NVNT 1-DH1 2402MHz Ant1



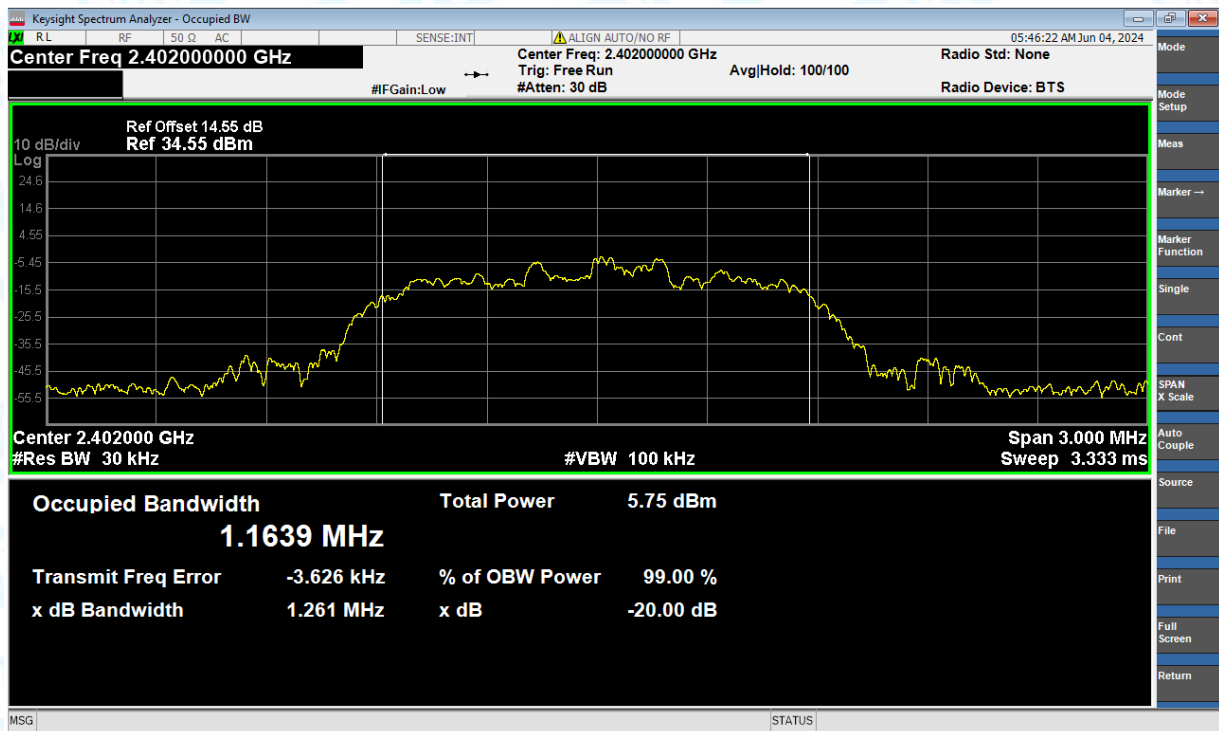
OBW NVNT 1-DH1 2441MHz Ant1



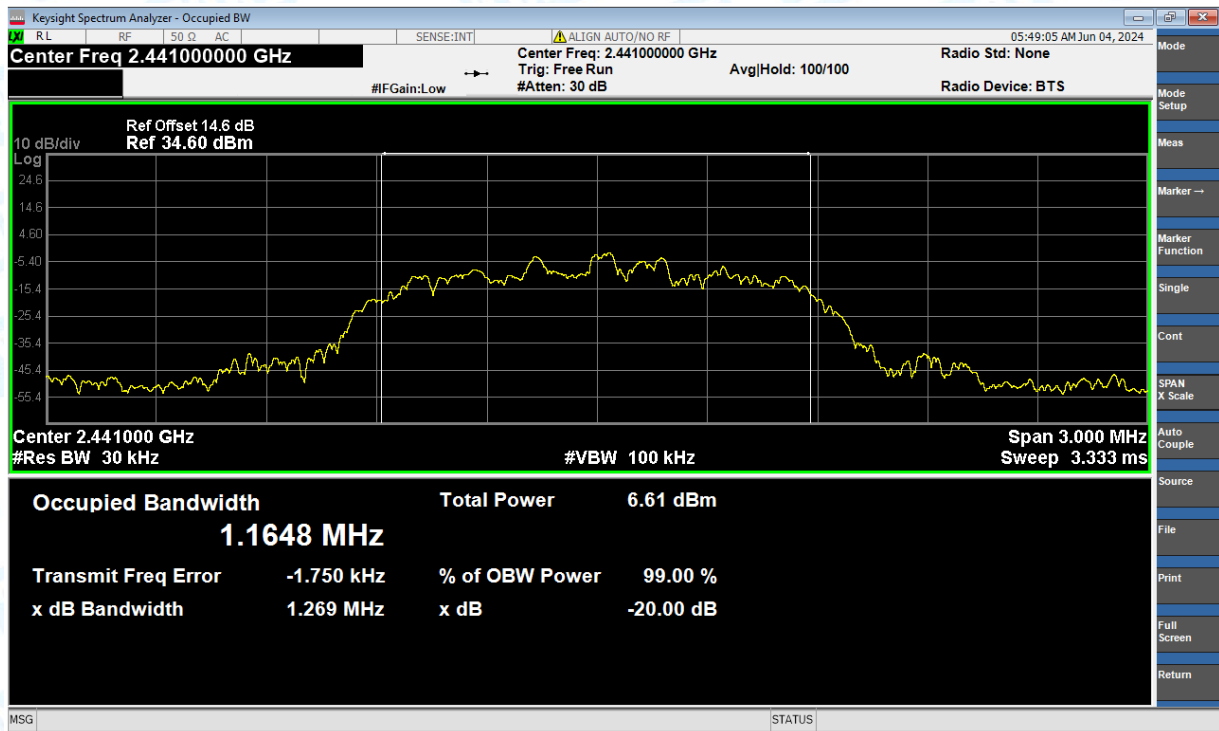
OBW NVNT 1-DH1 2480MHz Ant1



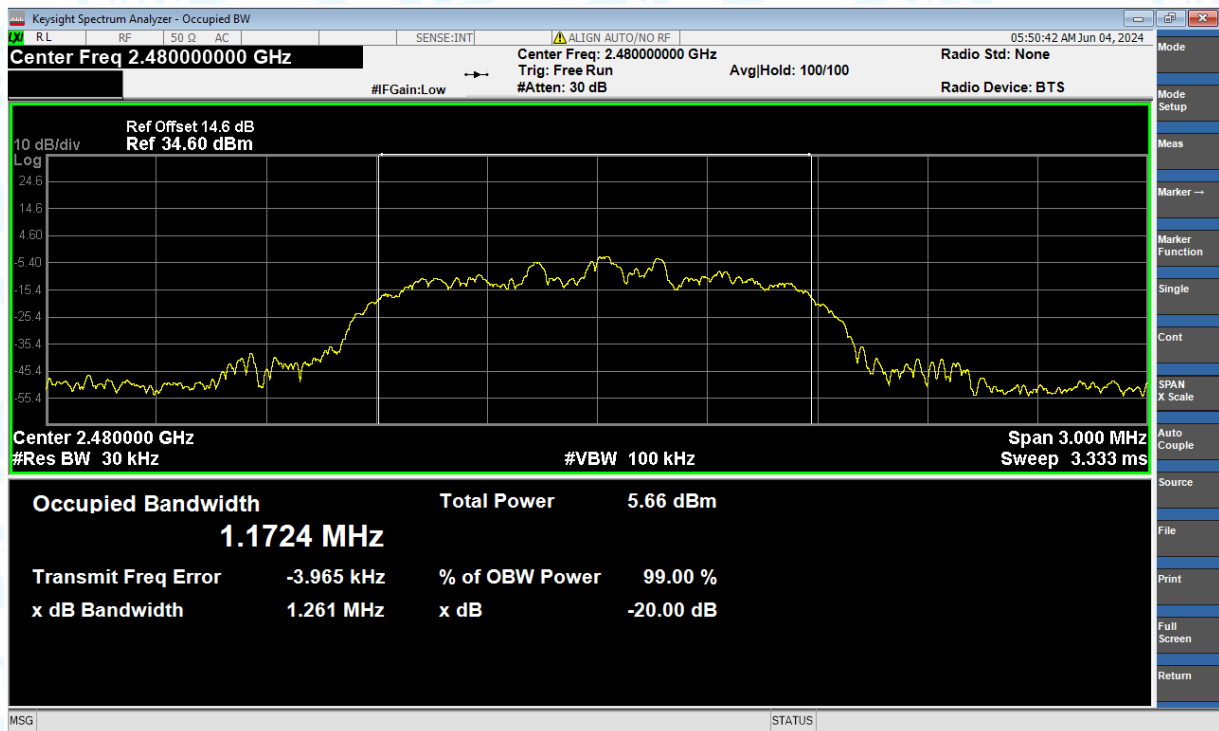
OBW NVNT 2-DH1 2402MHz Ant1



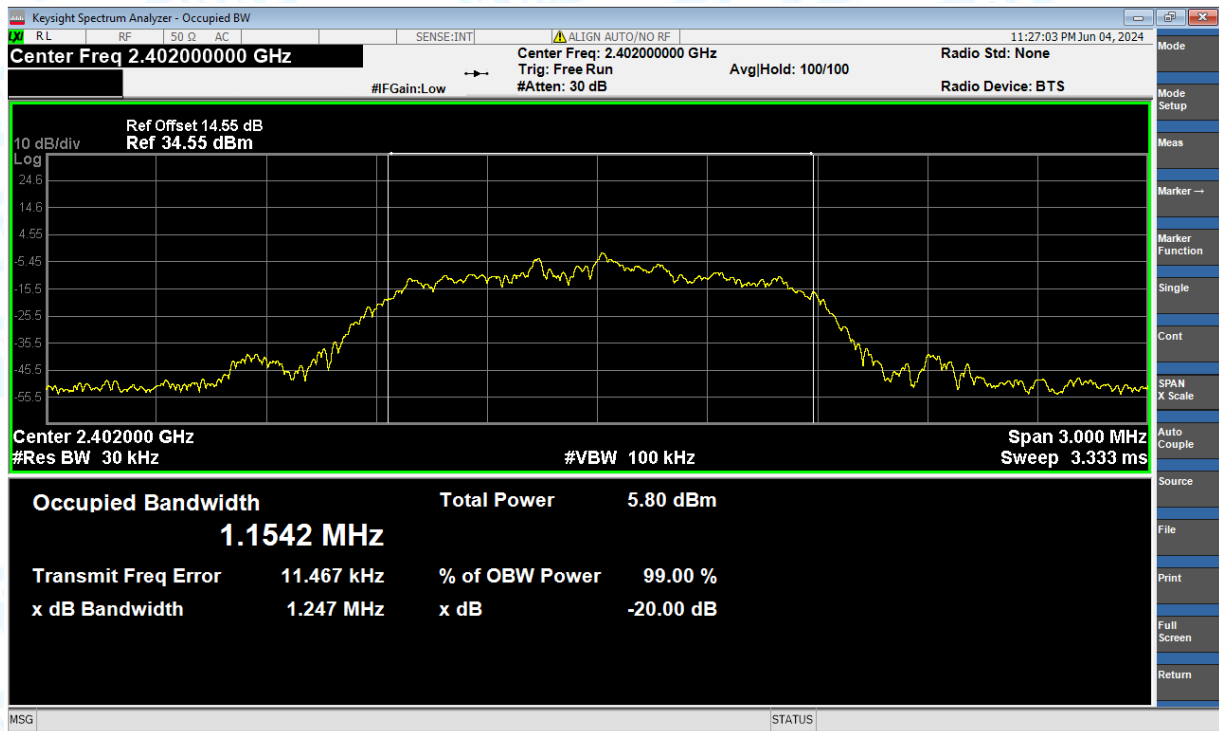
OBW NVNT 2-DH1 2441MHz Ant1



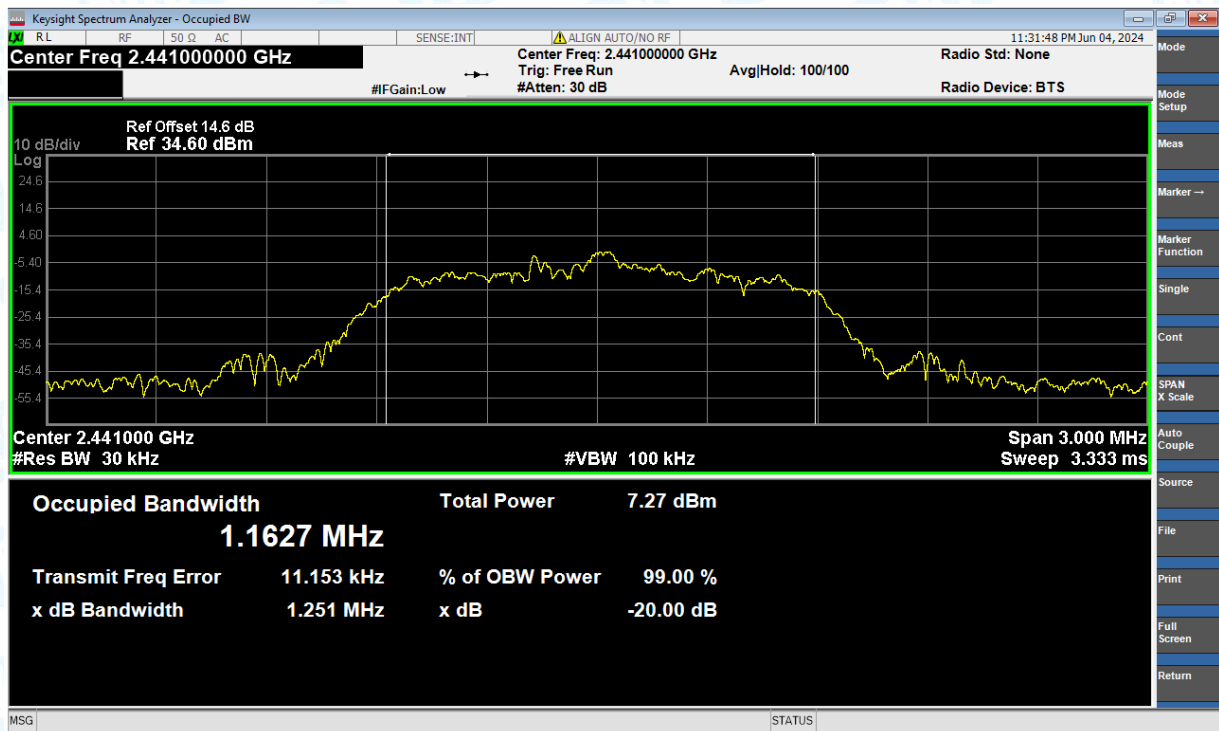
OBW NVNT 2-DH1 2480MHz Ant1

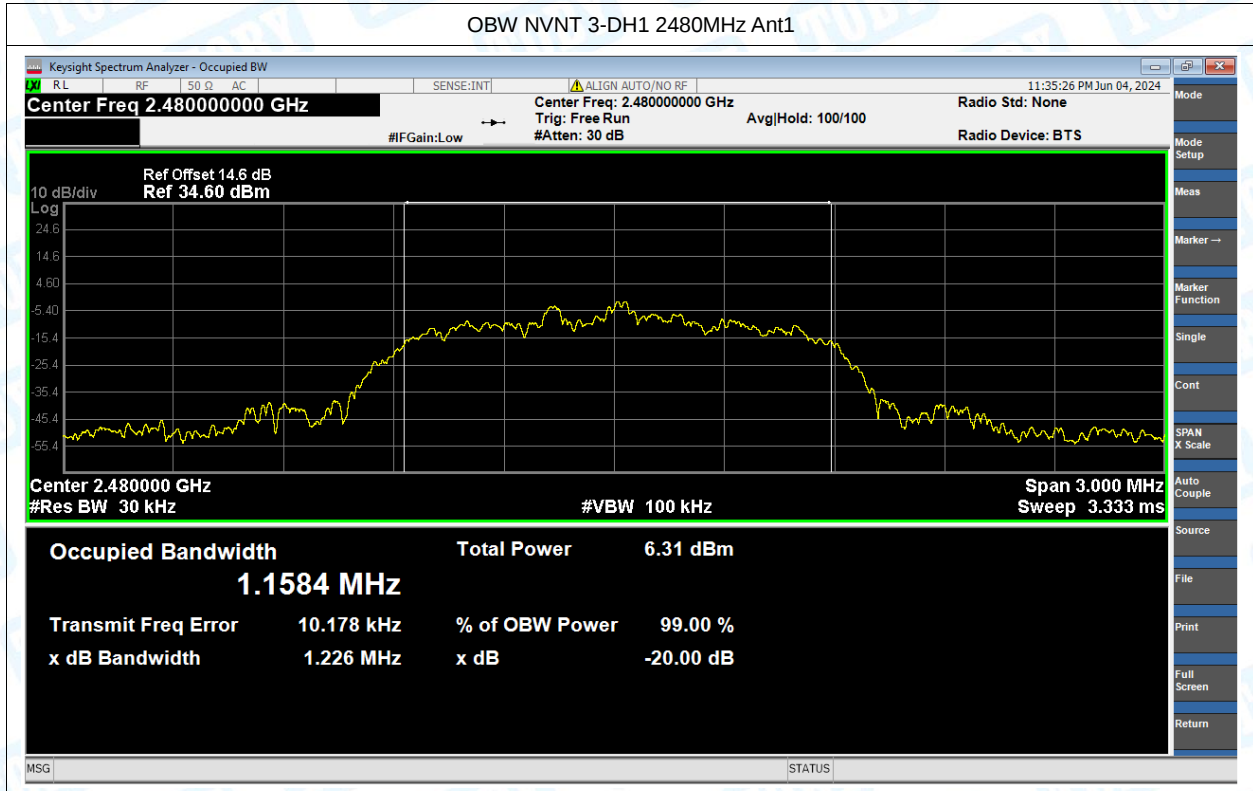


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



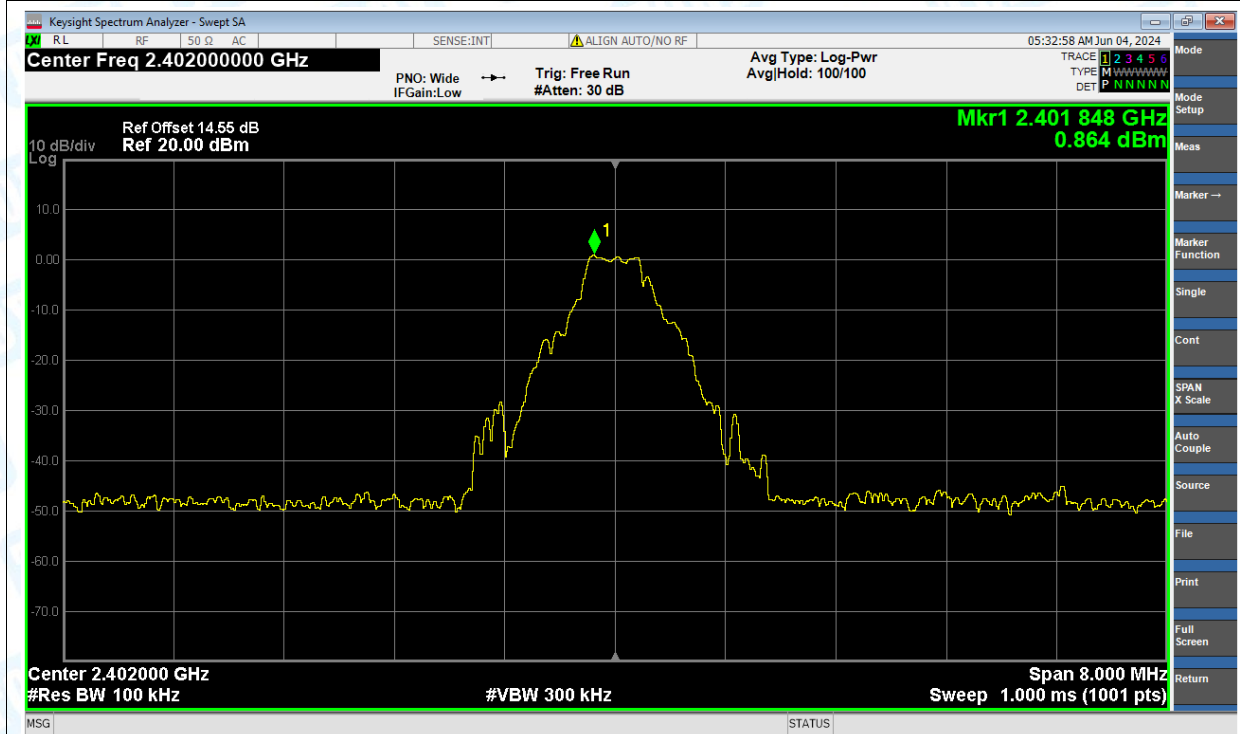


5. Band Edge

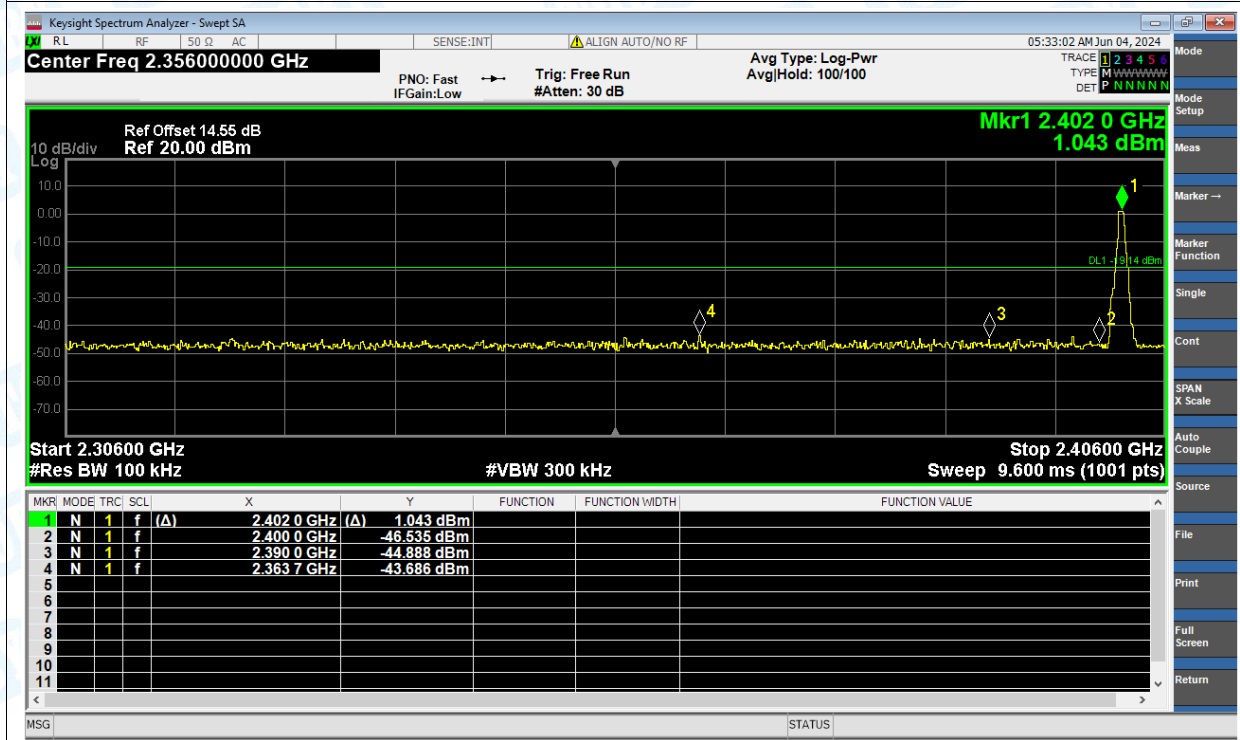
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-44.55	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-46.34	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-43.16	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-43.57	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-43.86	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-43.63	-20	Pass

Test Graphs

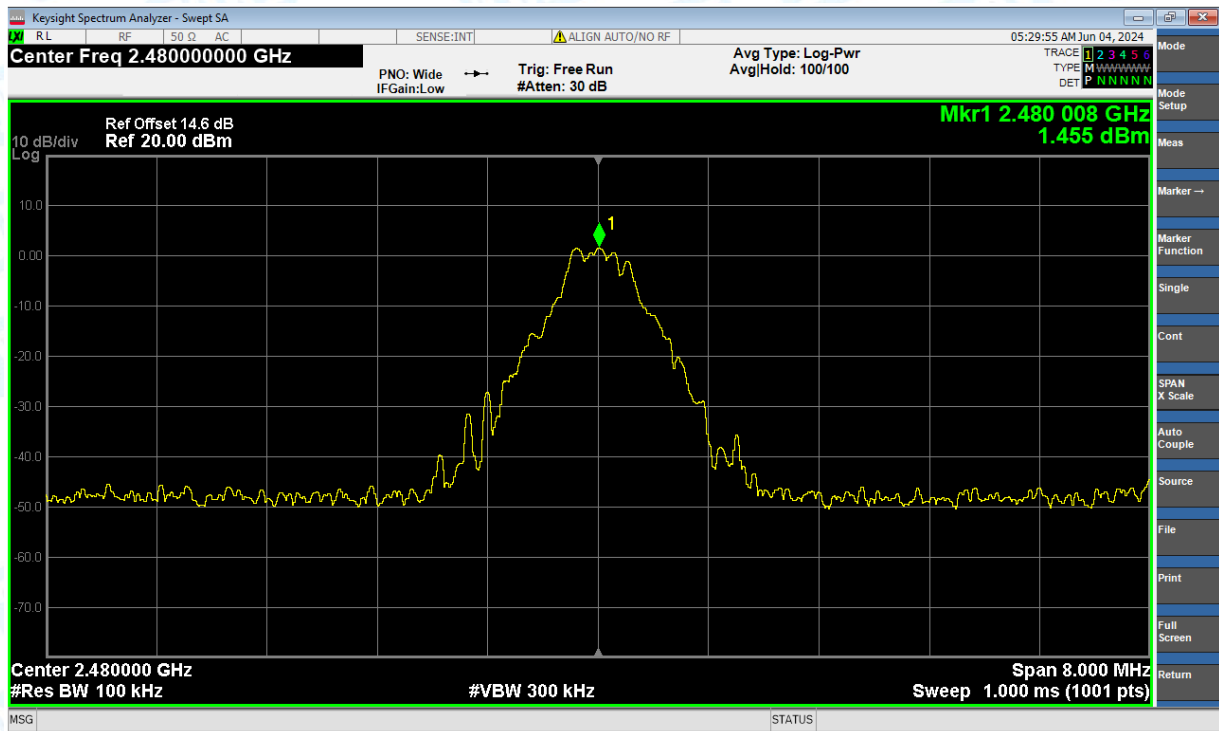
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



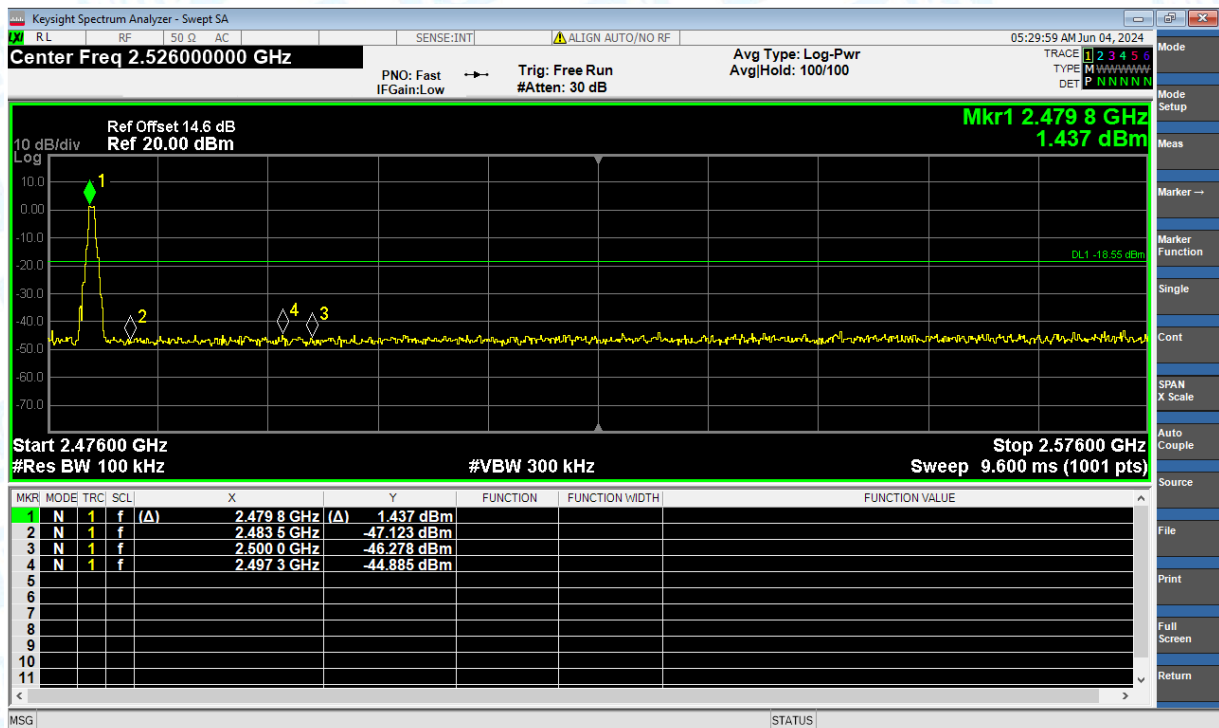
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



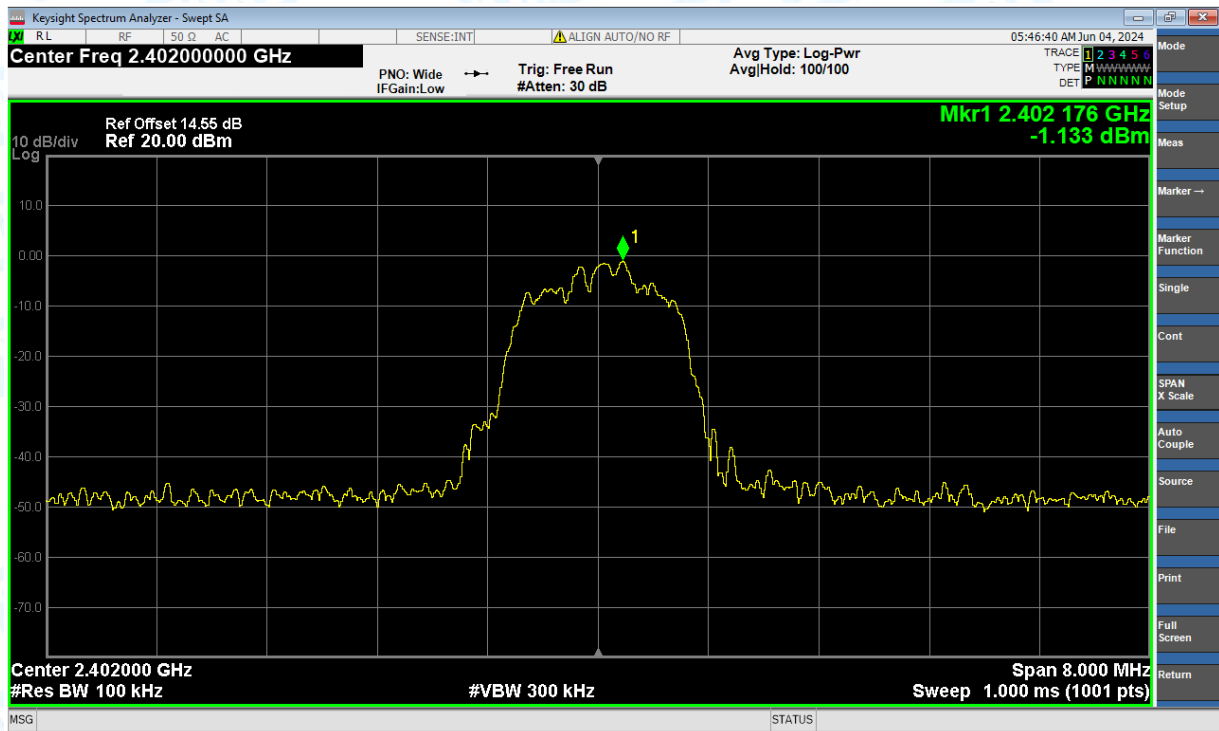
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



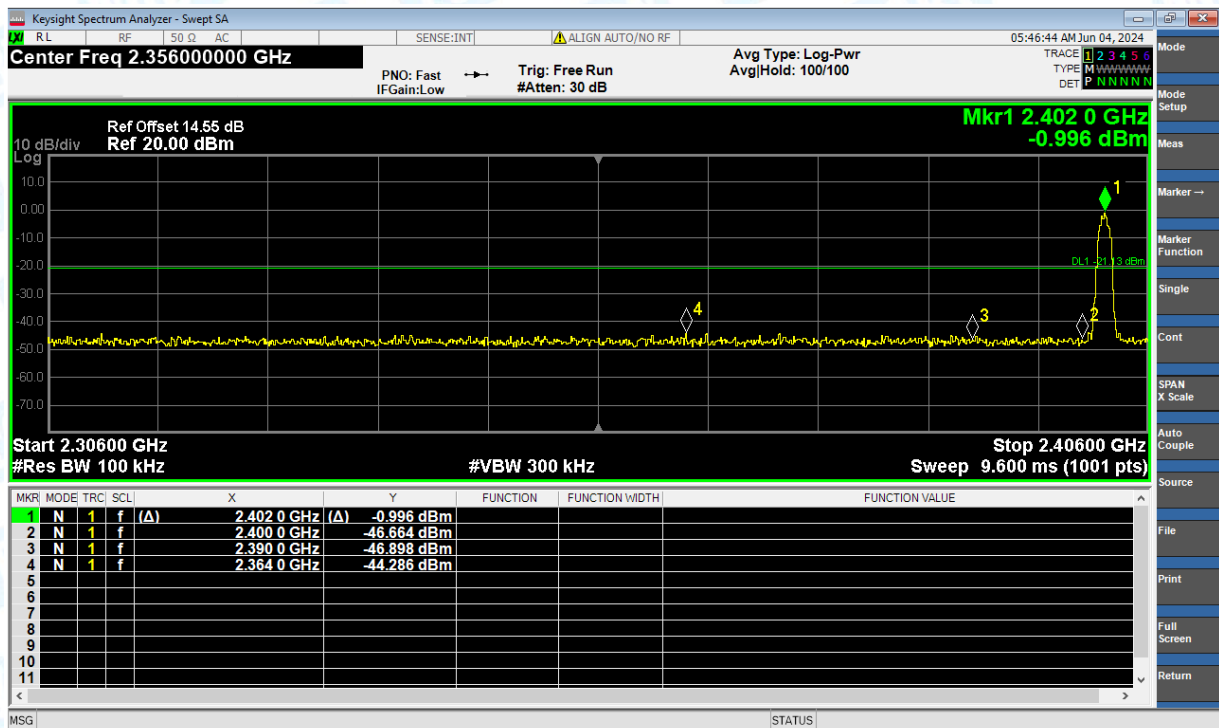
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



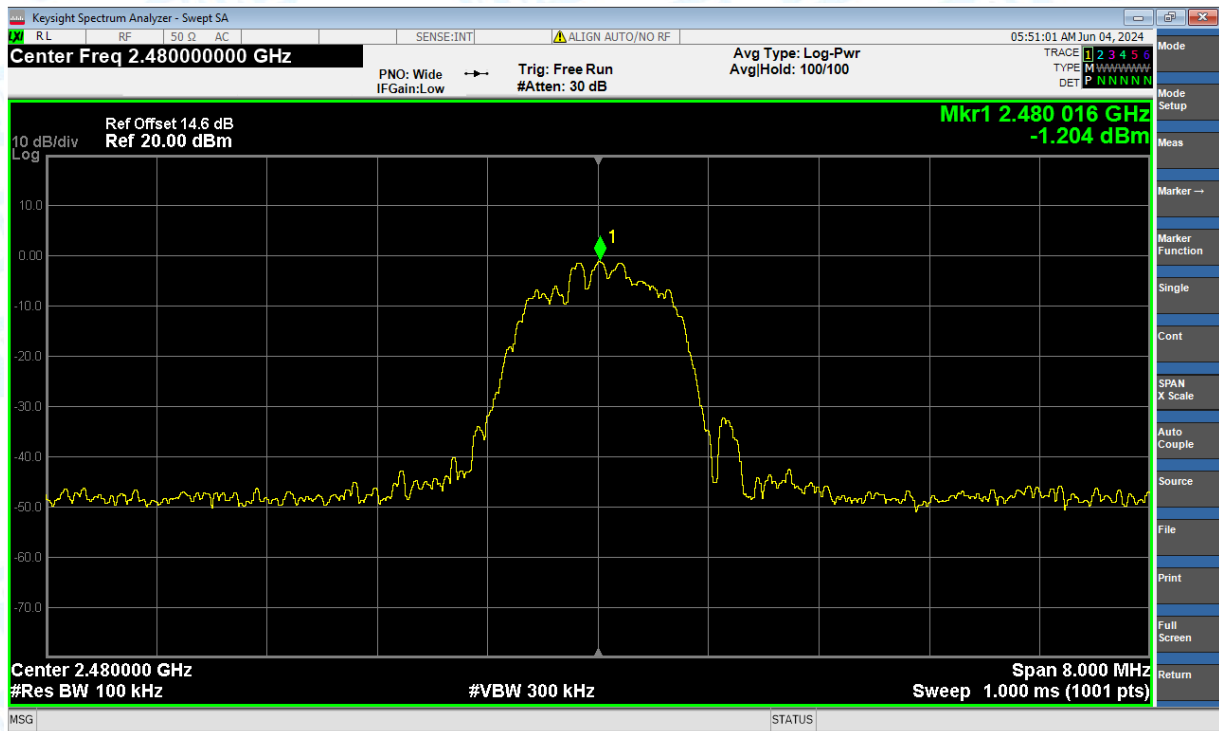
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



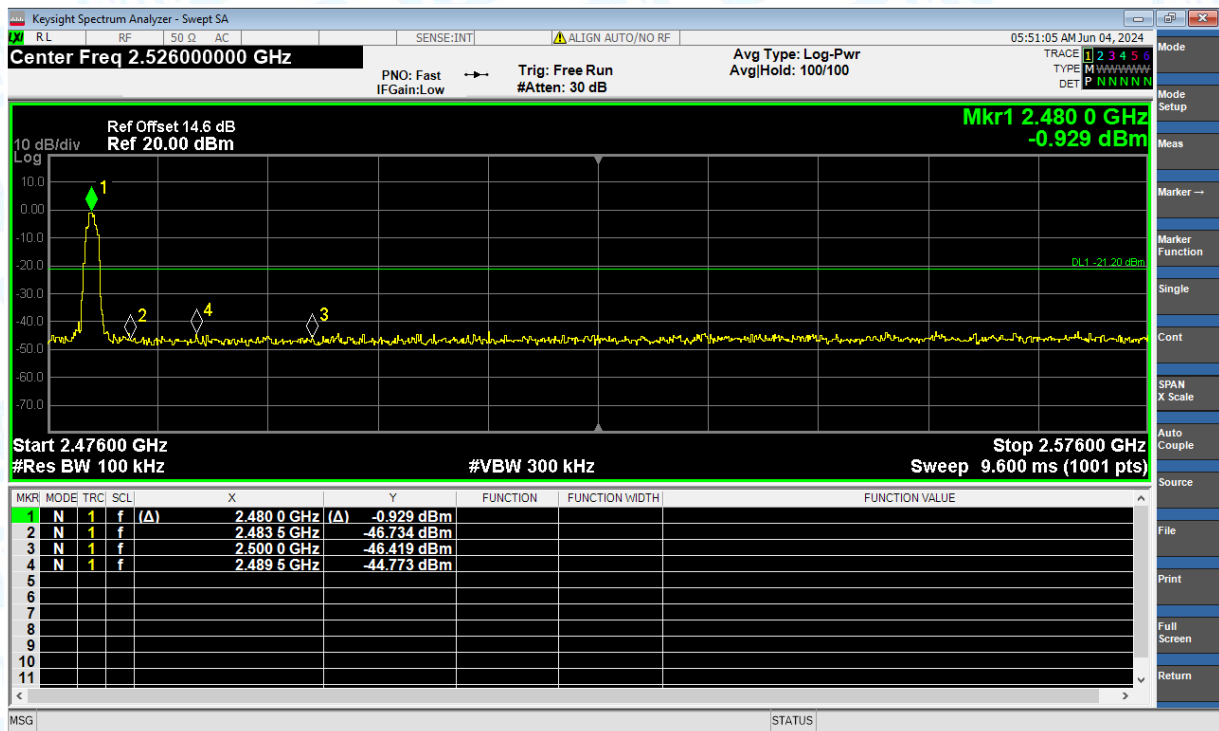
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



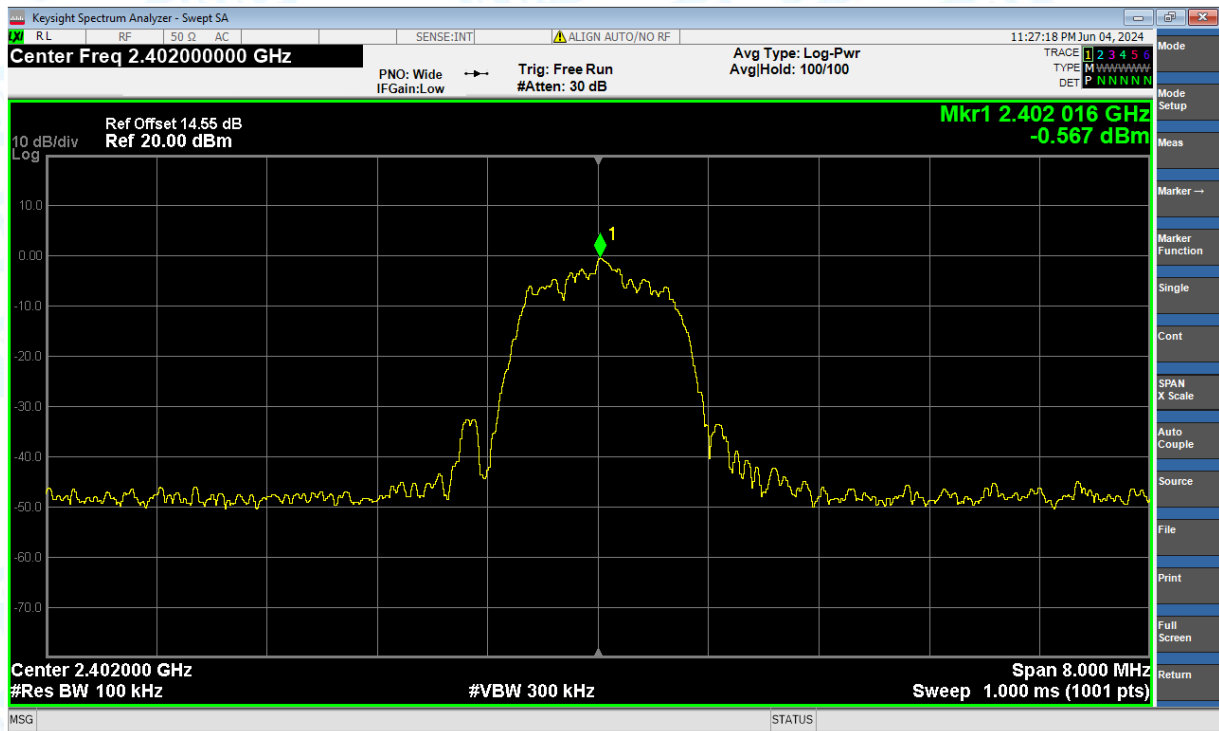
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



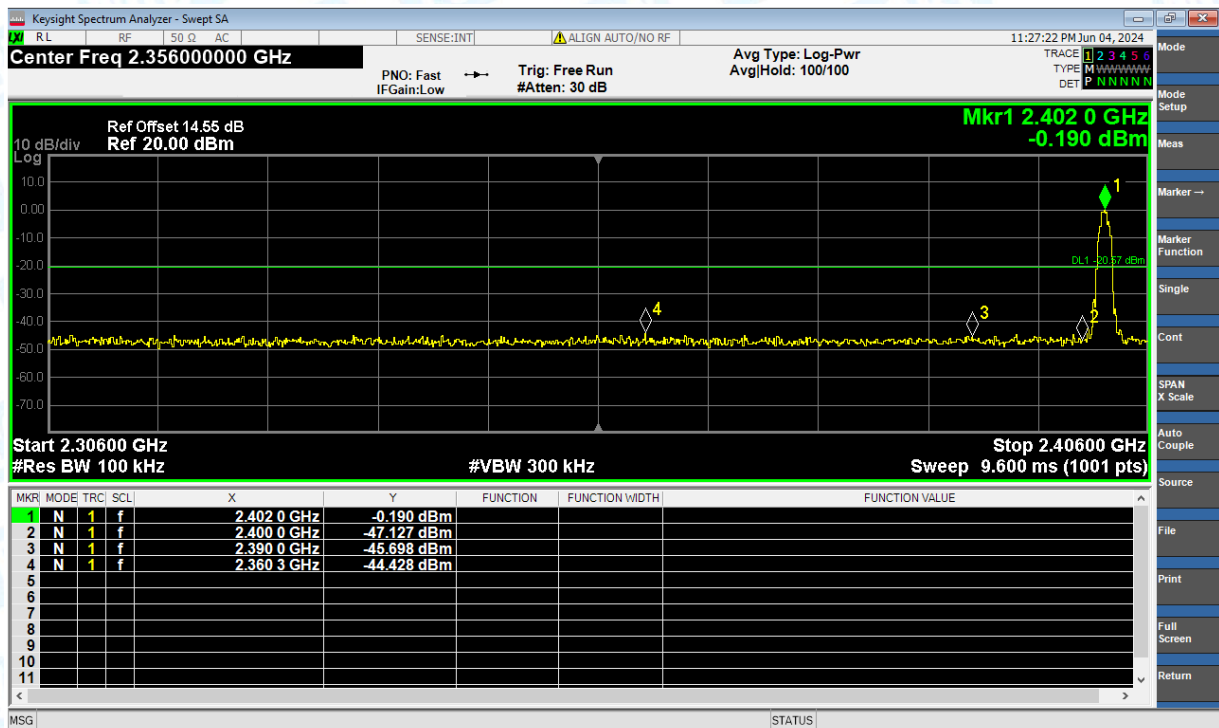
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



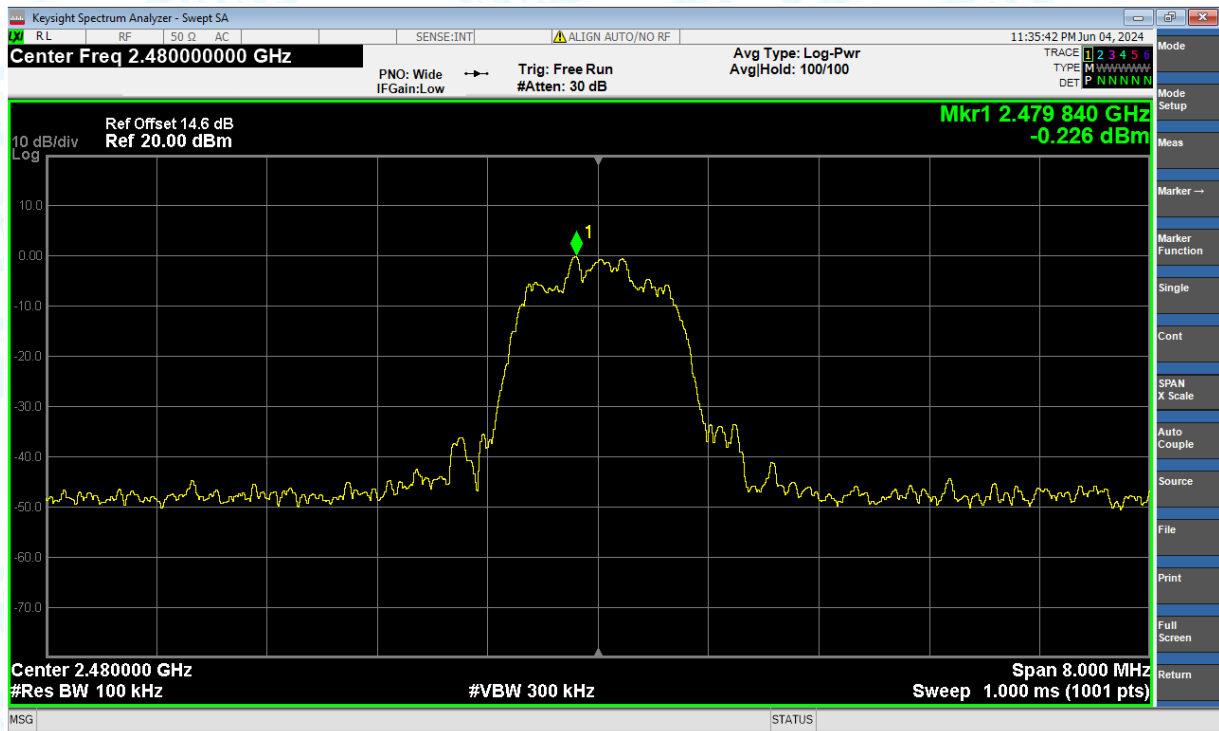
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



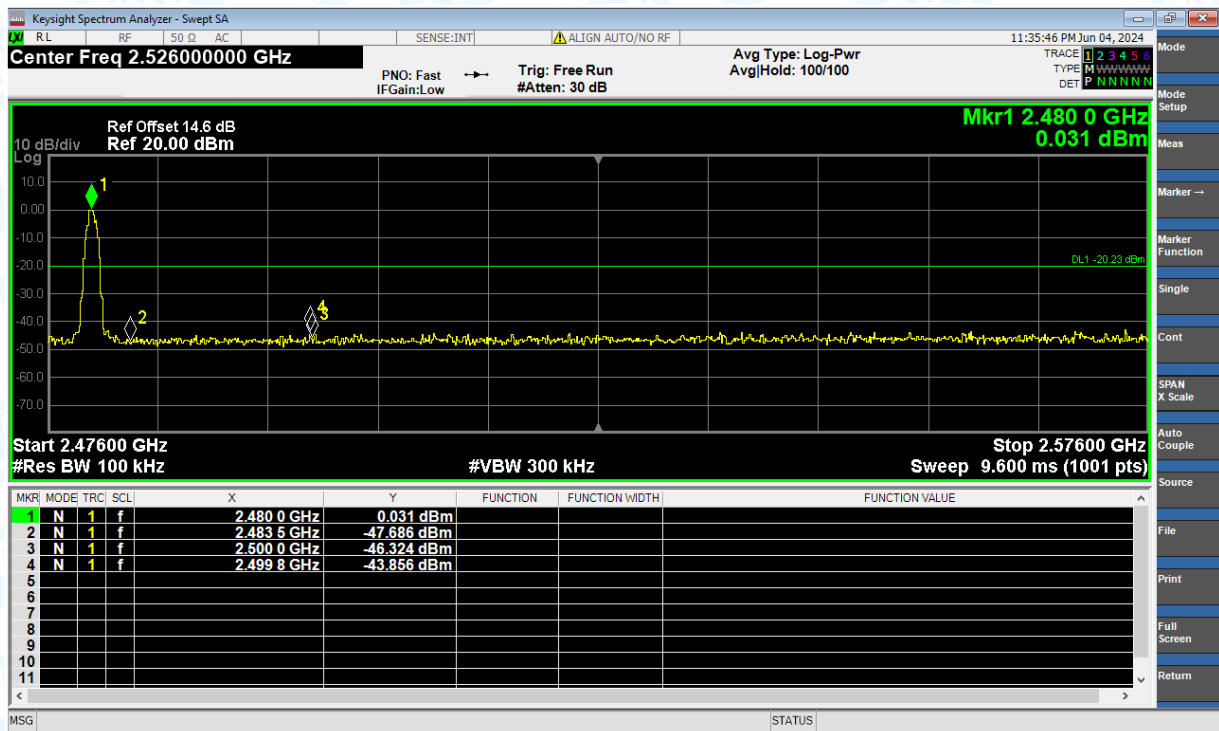
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

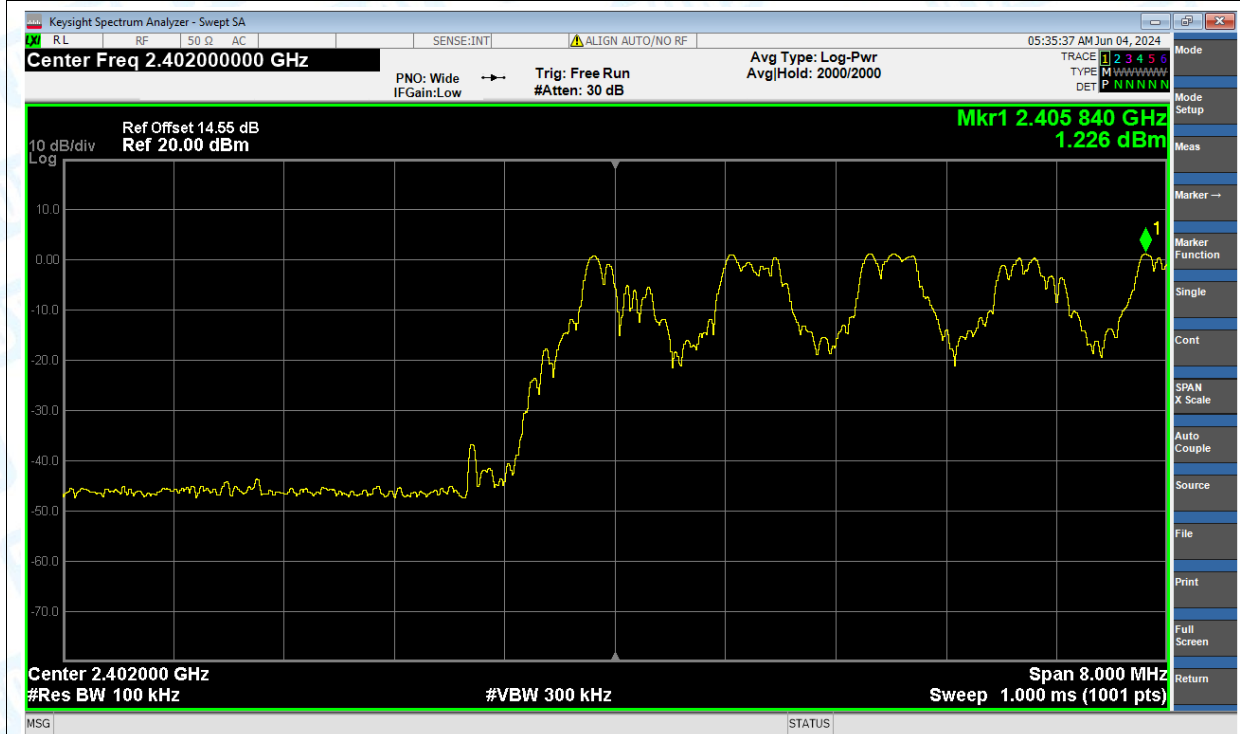


6. Band Edge(Hopping)

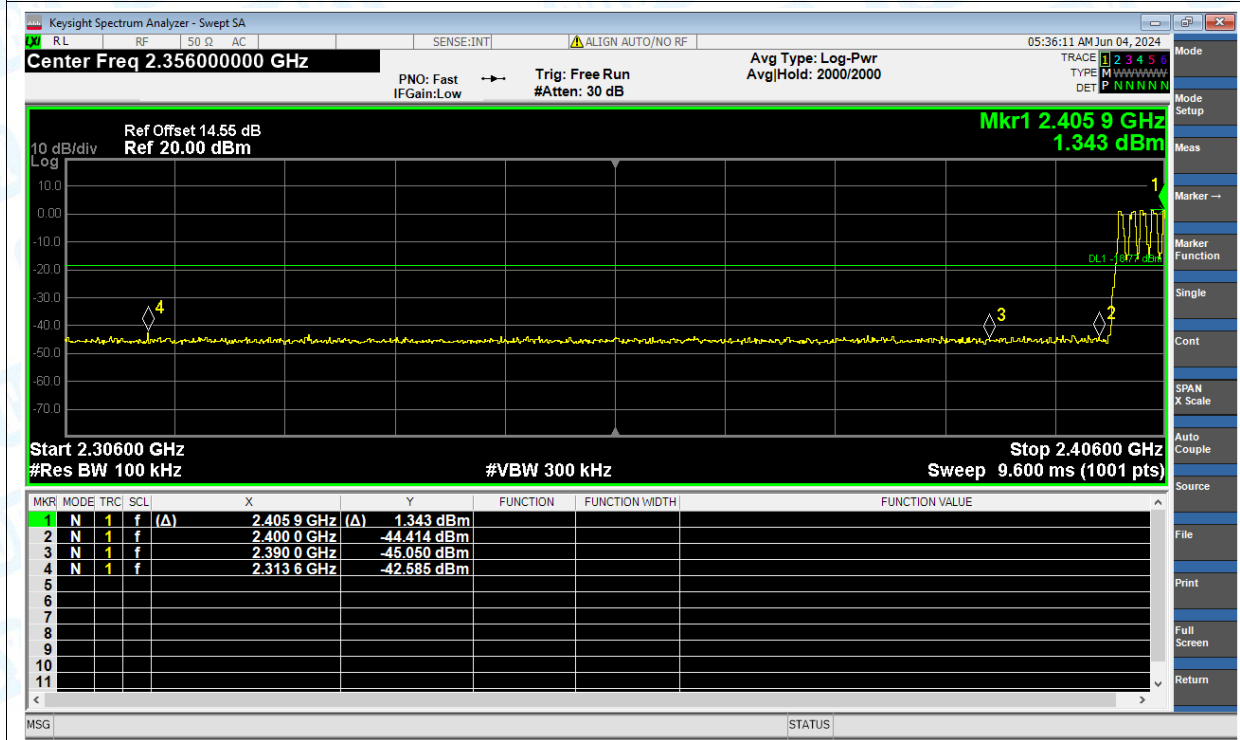
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-43.81	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-45.1	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-41.88	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-38.27	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-42.97	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-41.05	-20	Pass

Test Graphs

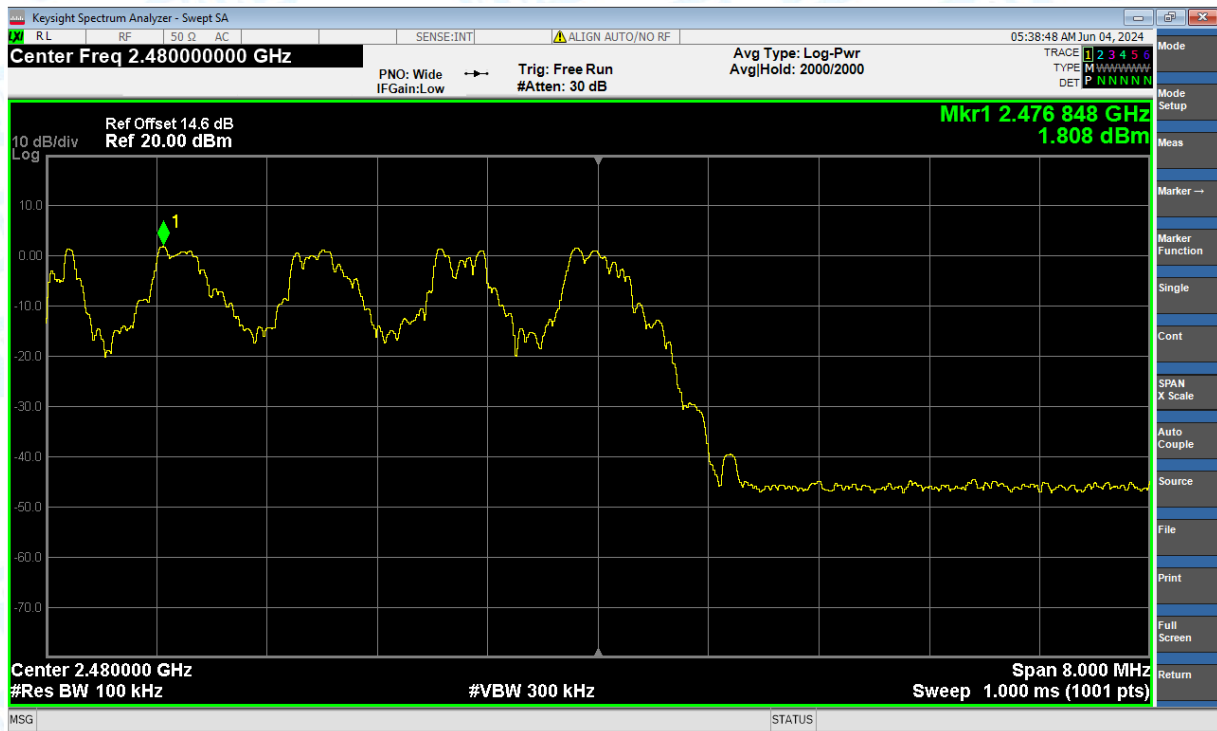
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



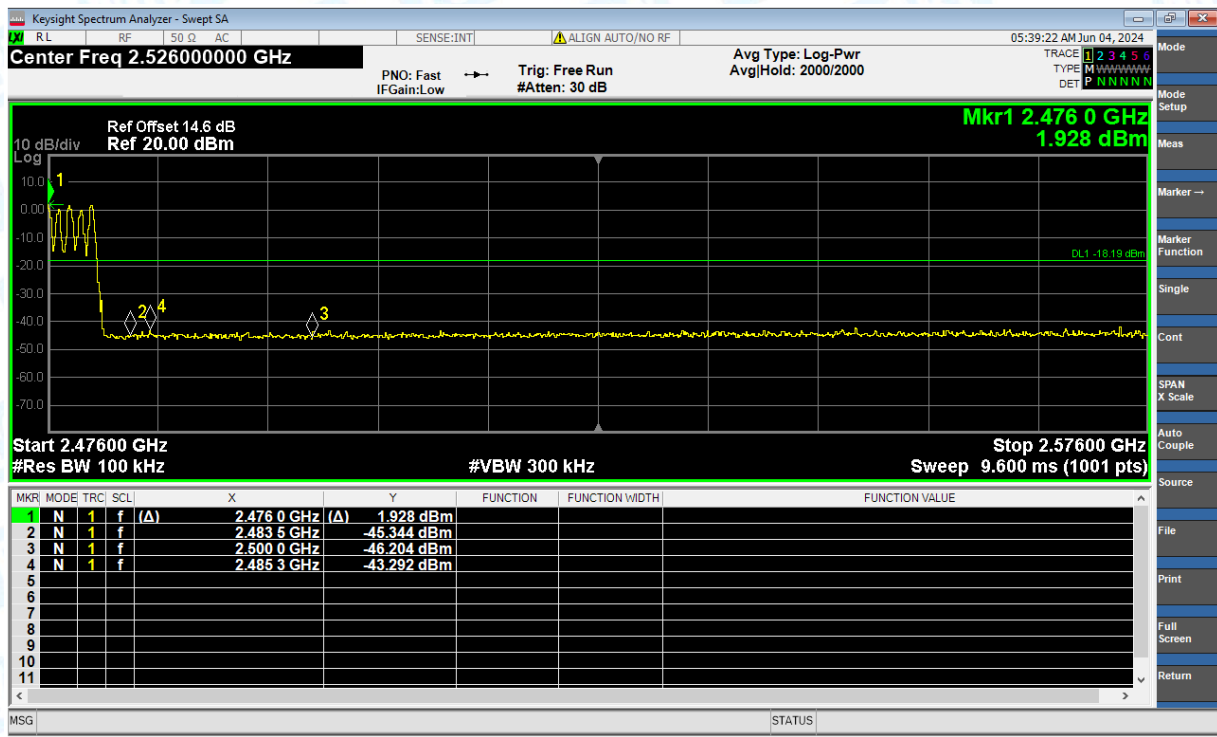
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



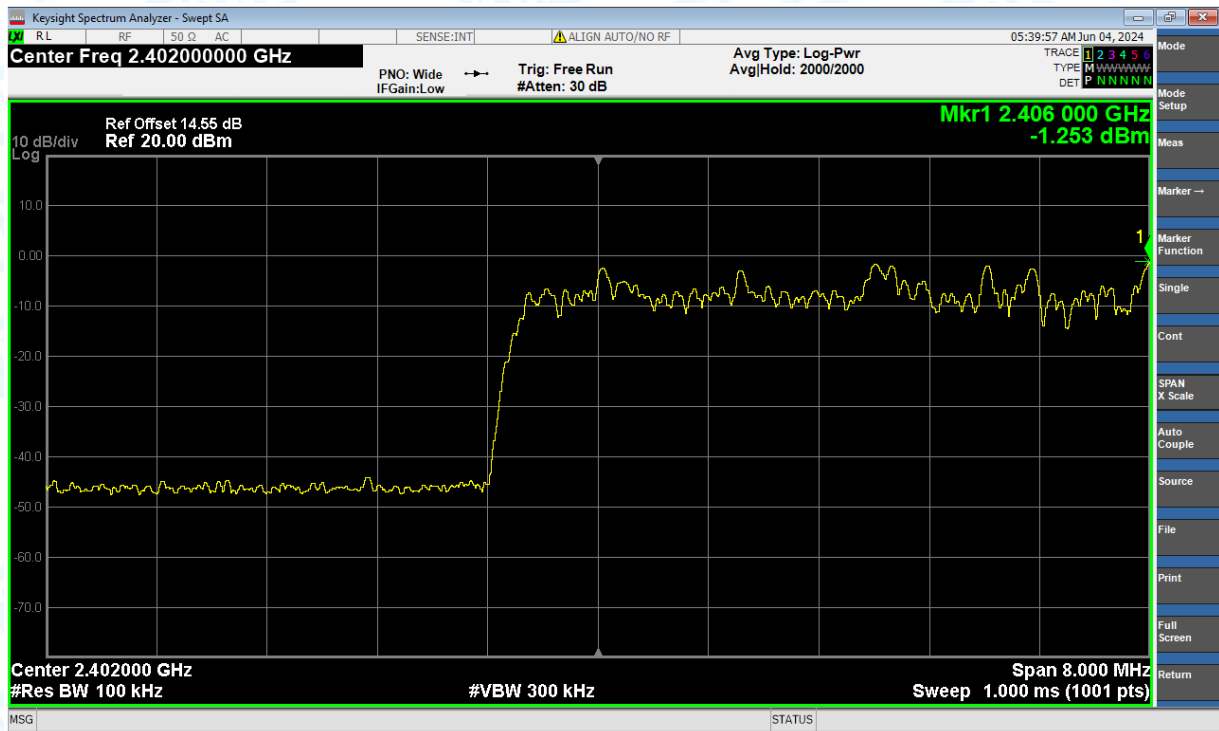
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



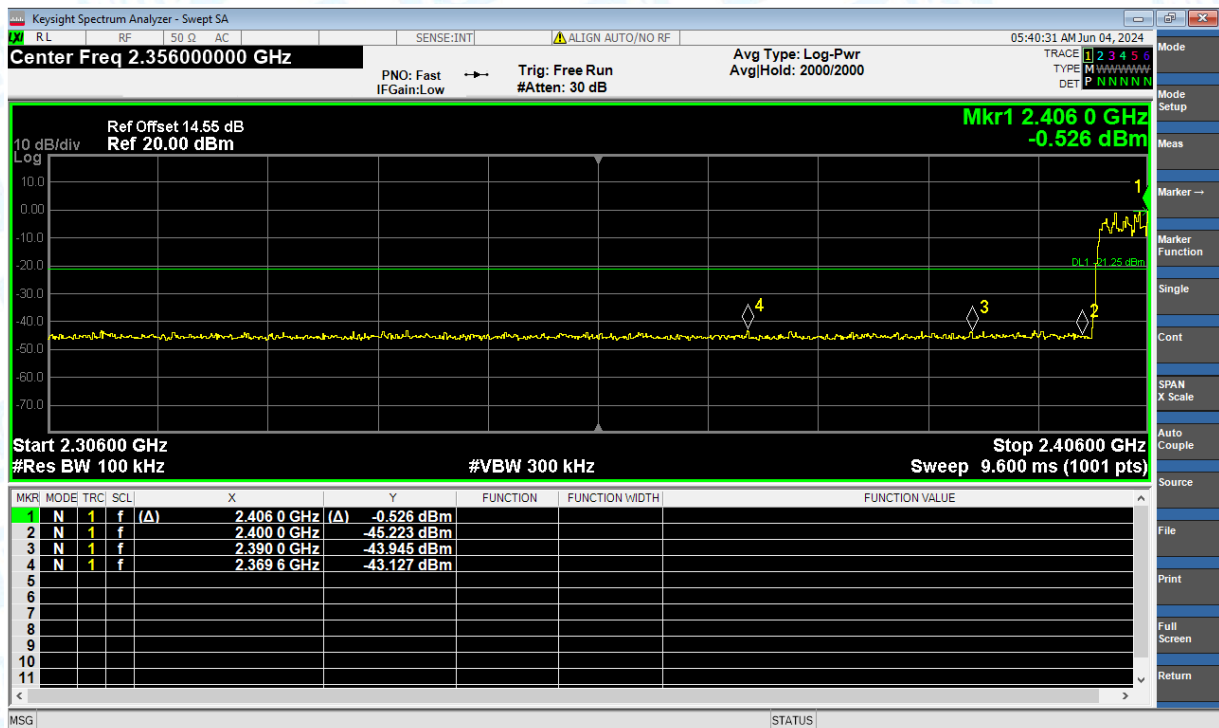
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



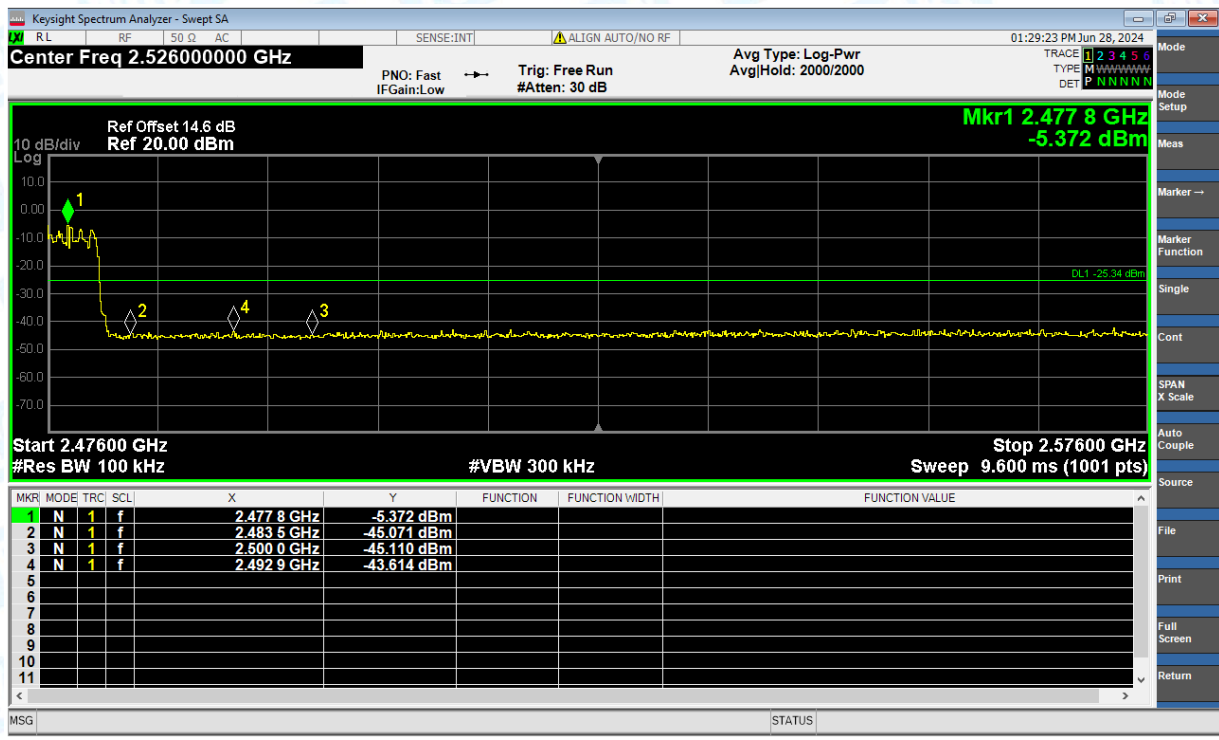
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



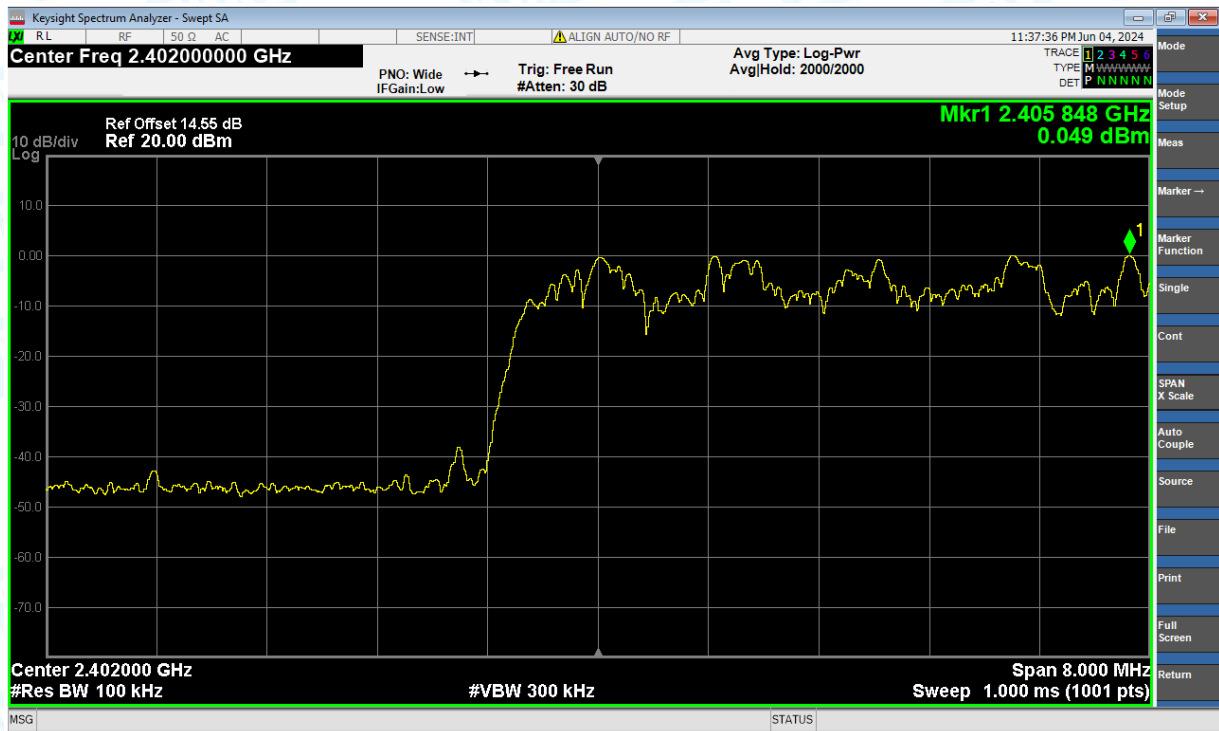
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



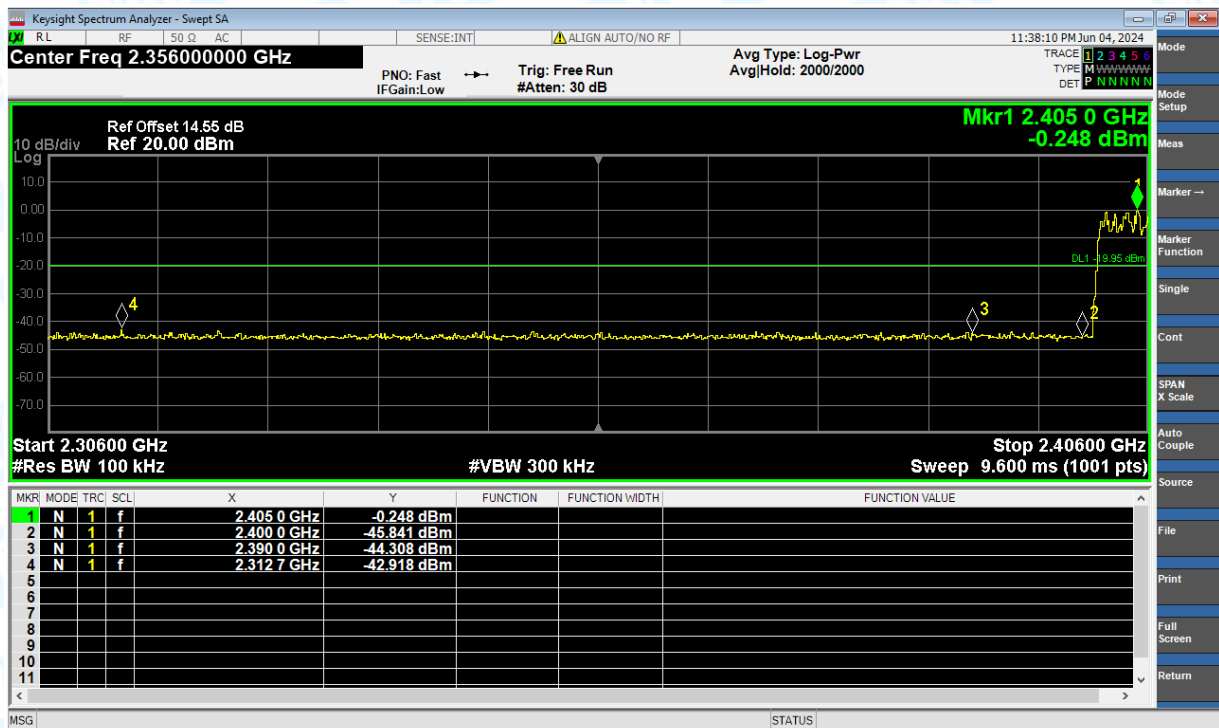
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



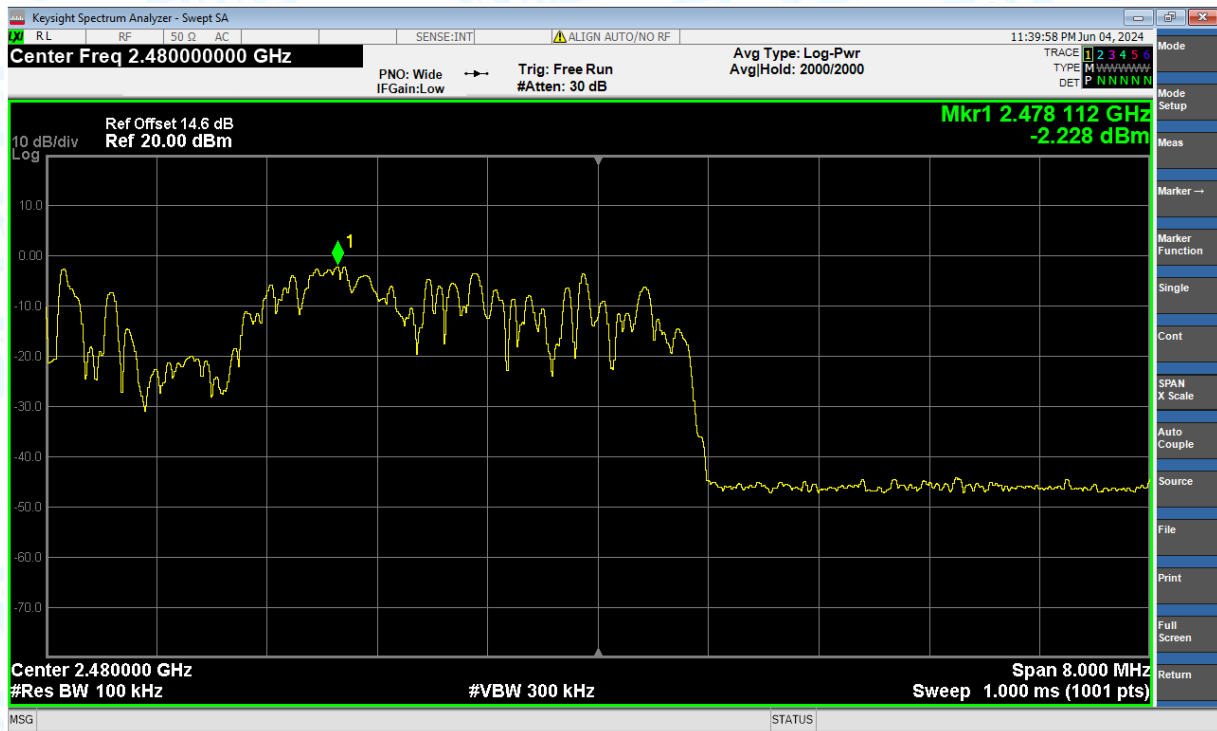
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



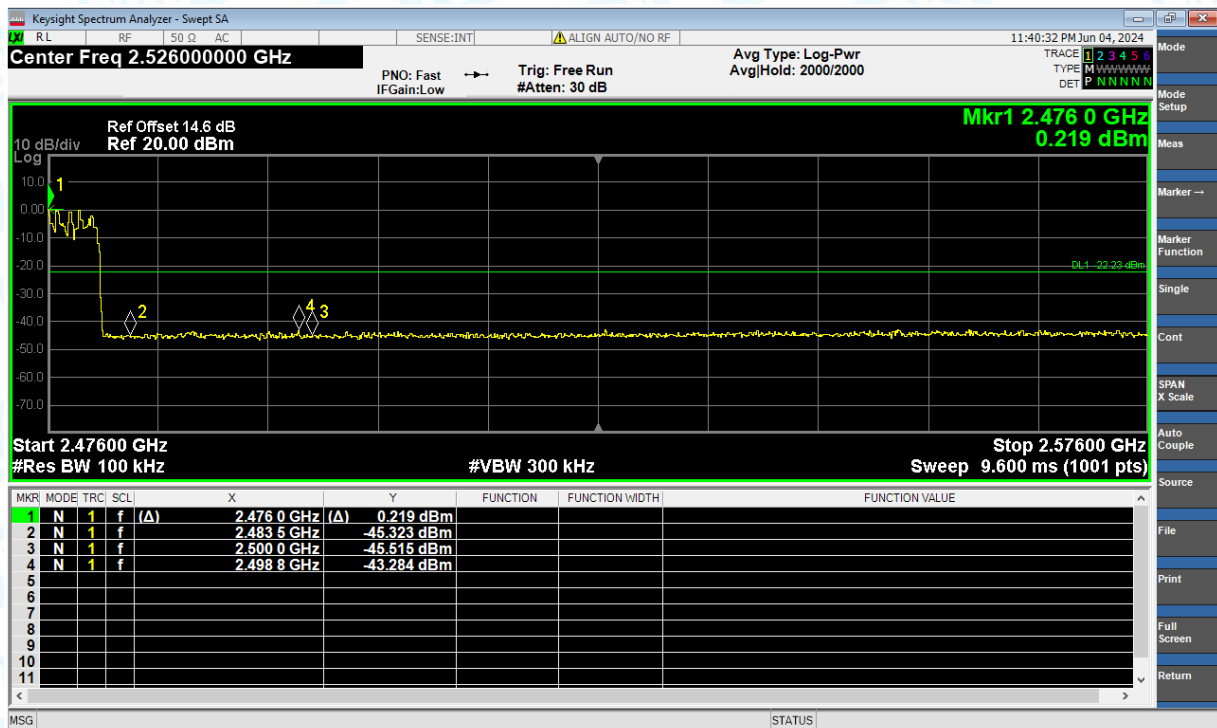
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

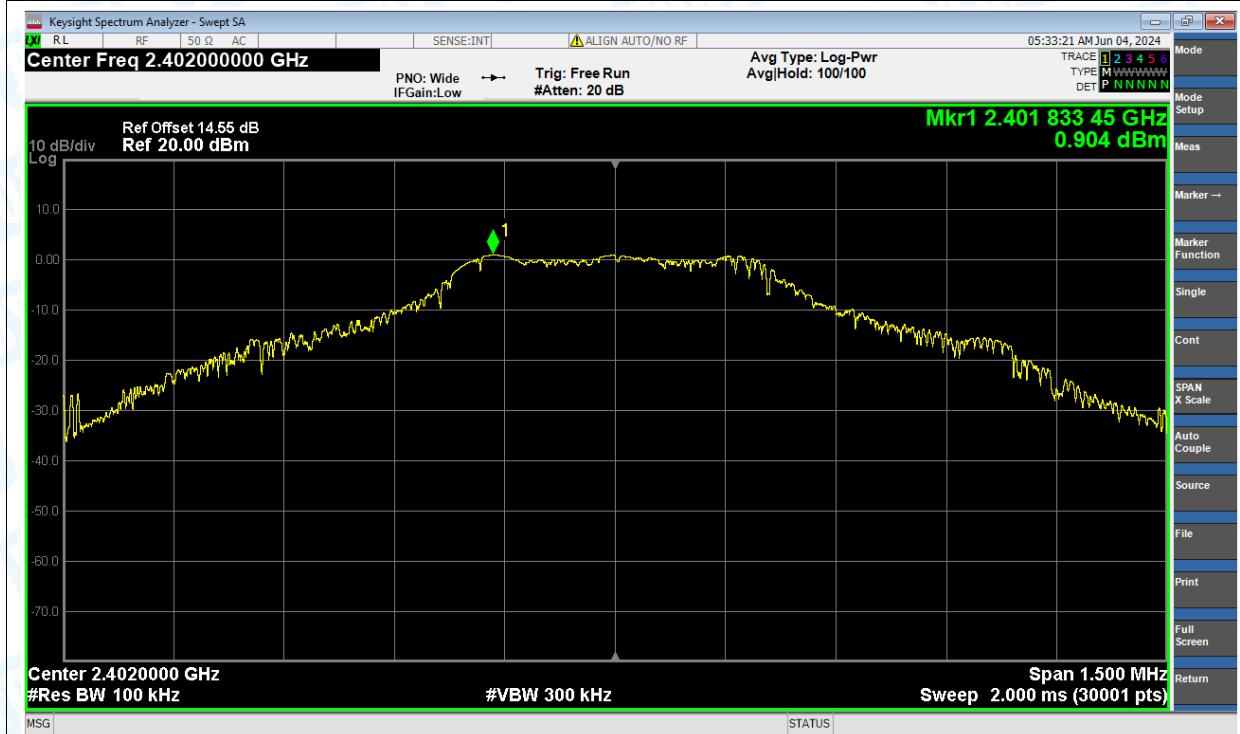


7. Conducted RF Spurious Emission

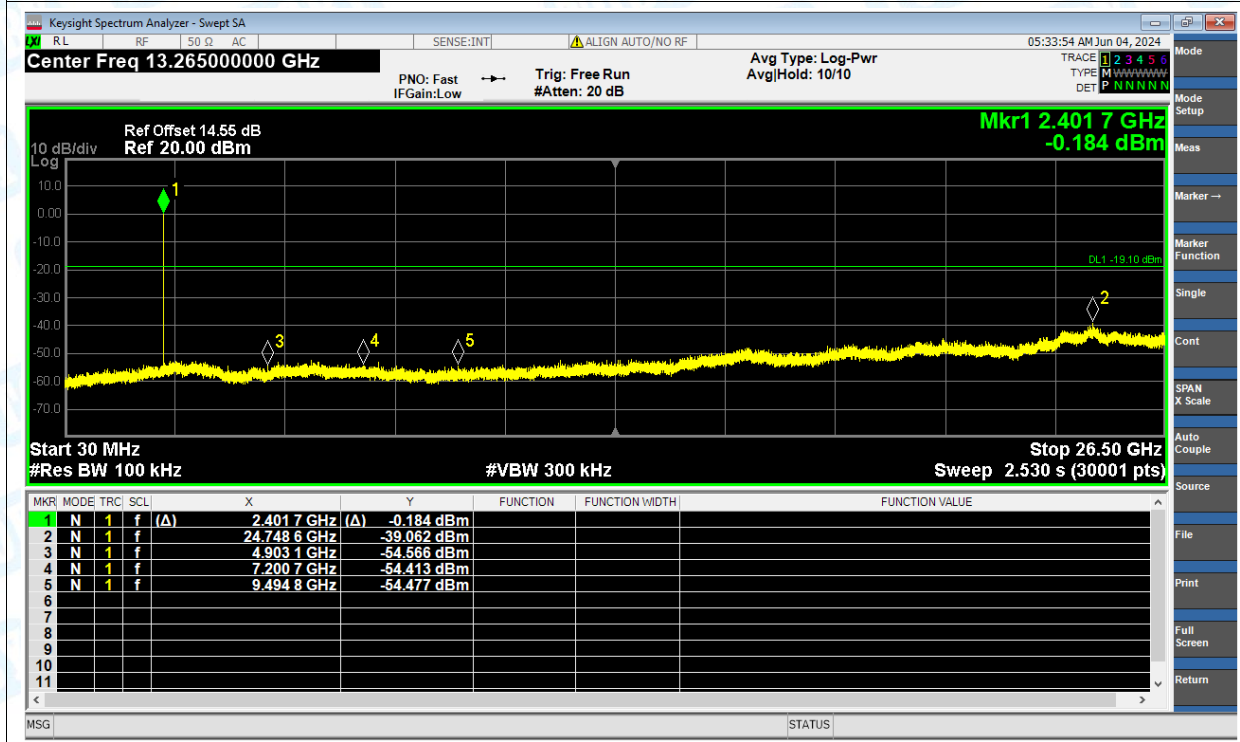
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-39.96	-20	Pass
NVNT	1-DH1	2441	Ant1	-41.87	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.36	-20	Pass
NVNT	2-DH1	2402	Ant1	-38.34	-20	Pass
NVNT	2-DH1	2441	Ant1	-39.36	-20	Pass
NVNT	2-DH1	2480	Ant1	-38.79	-20	Pass
NVNT	3-DH1	2402	Ant1	-39.67	-20	Pass
NVNT	3-DH1	2441	Ant1	-40.38	-20	Pass
NVNT	3-DH1	2480	Ant1	-39.91	-20	Pass

Test Graphs

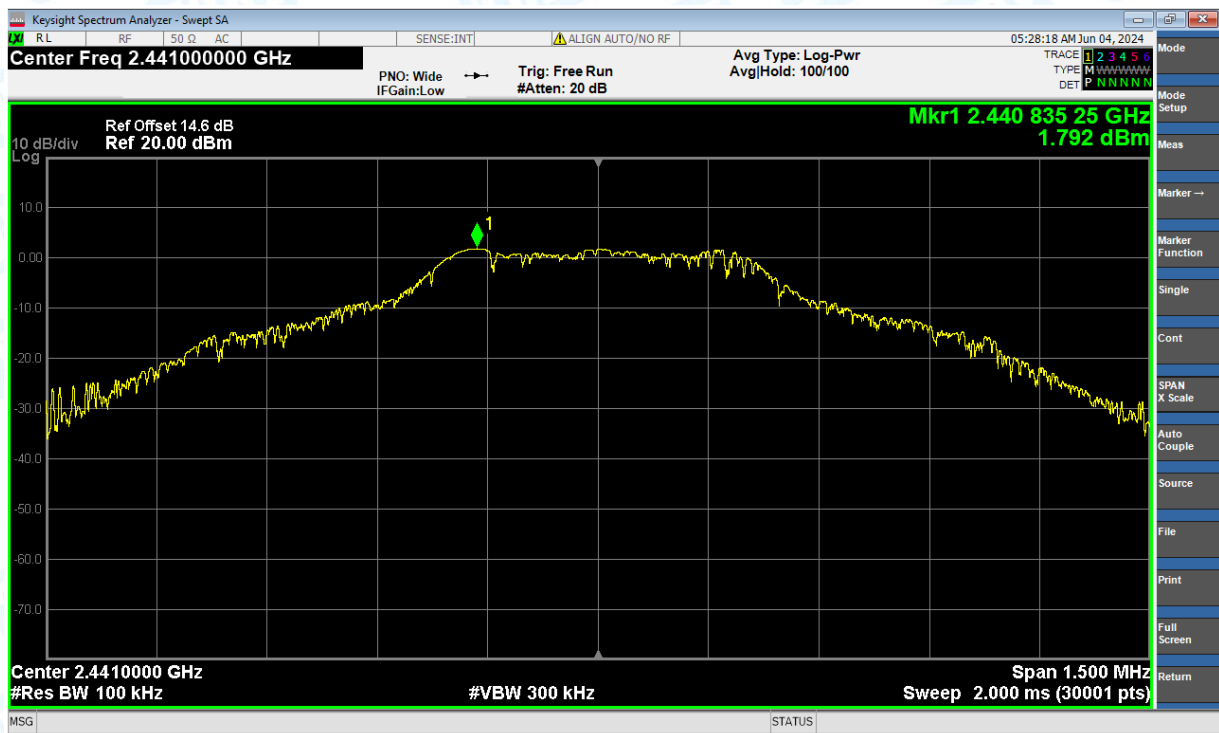
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



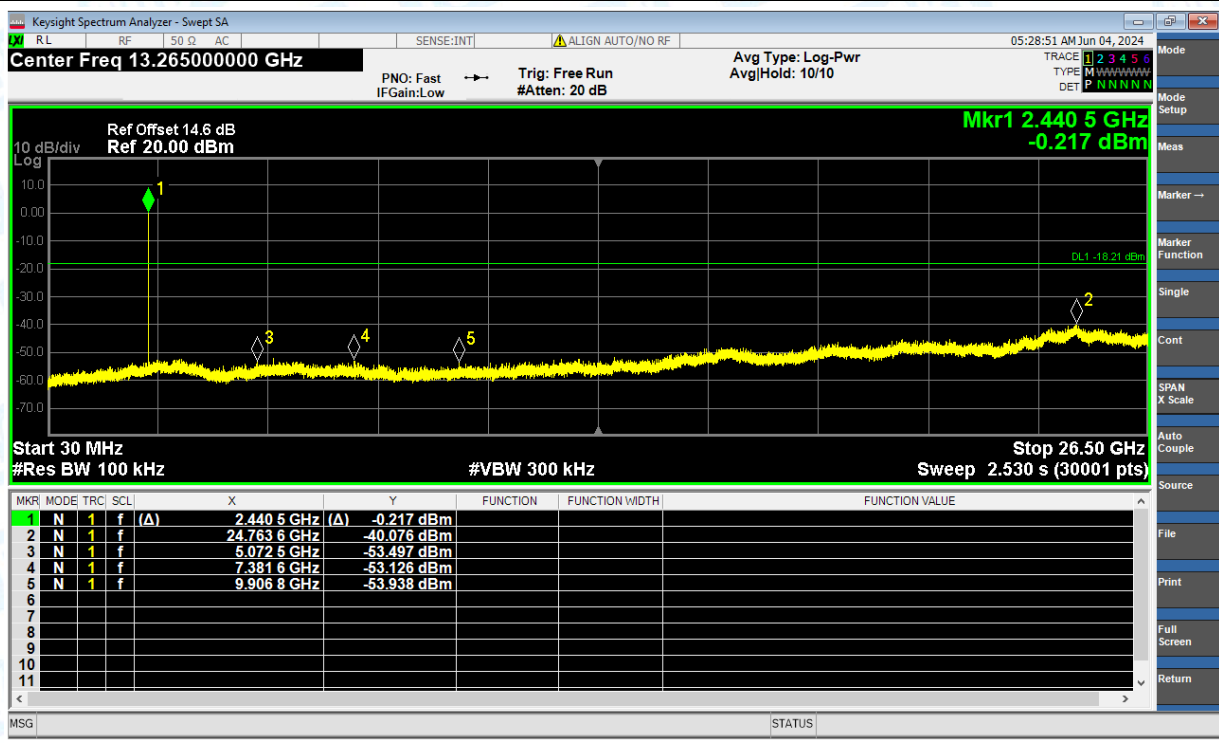
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



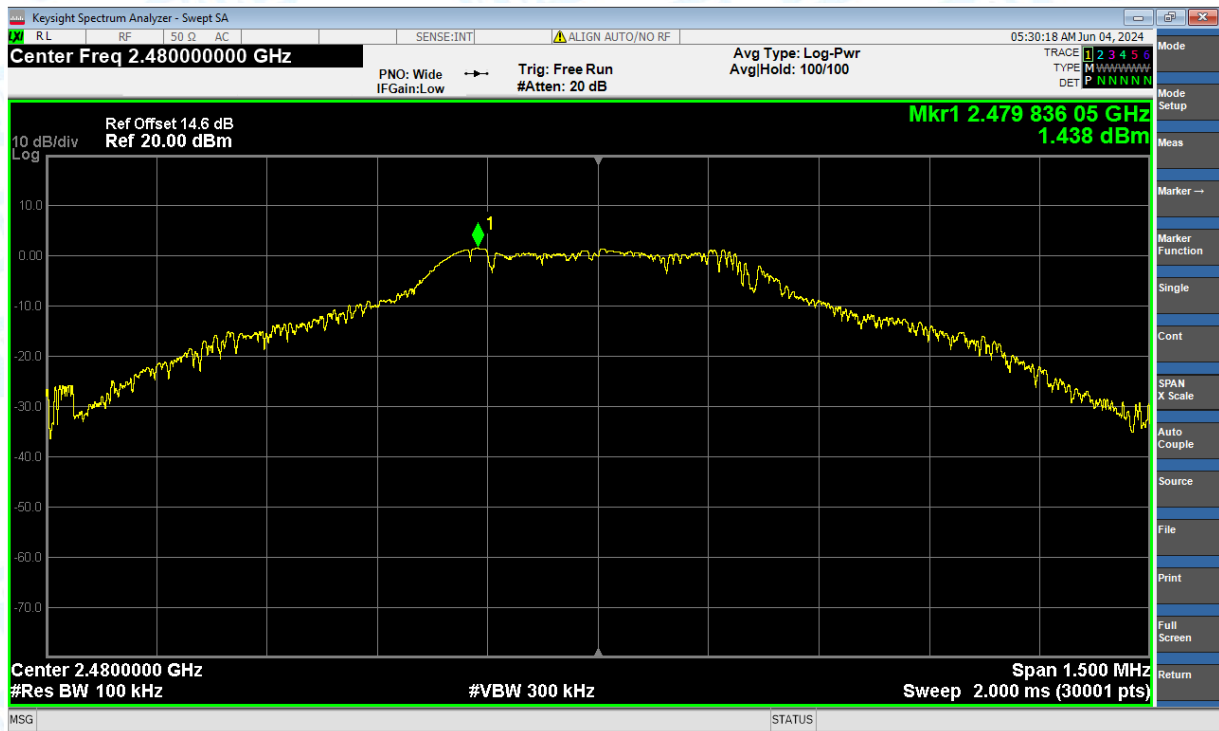
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



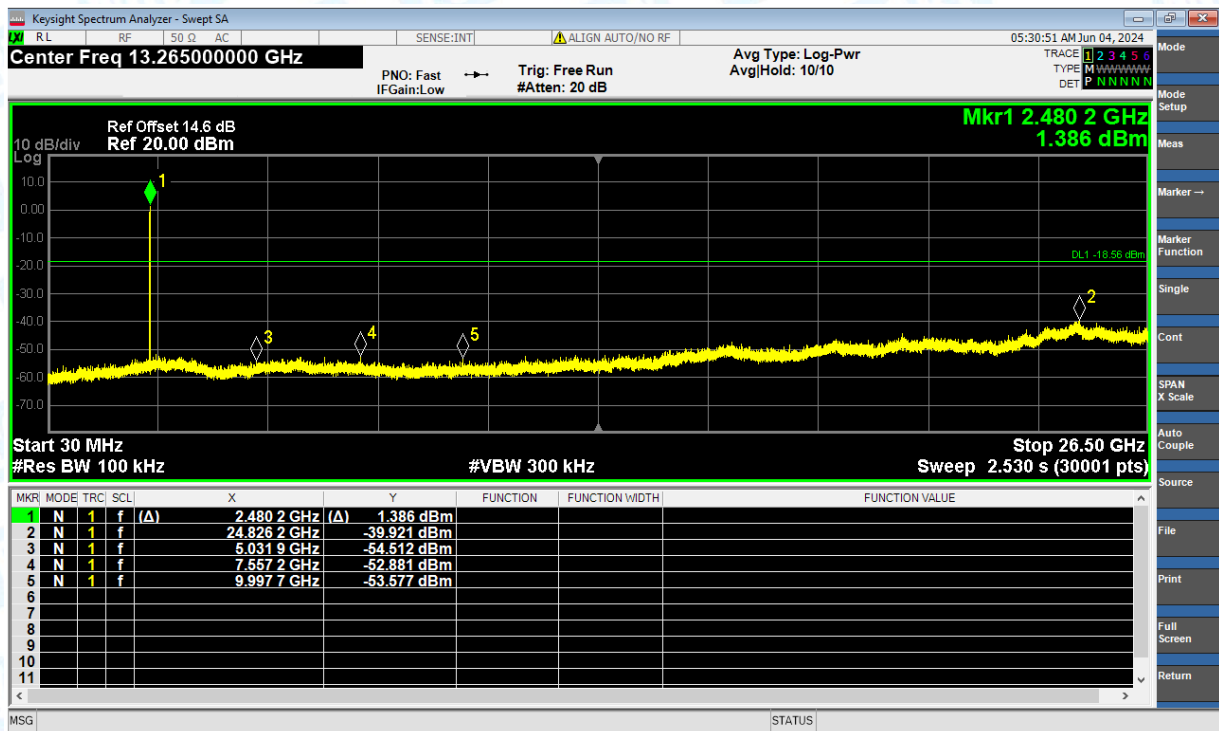
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



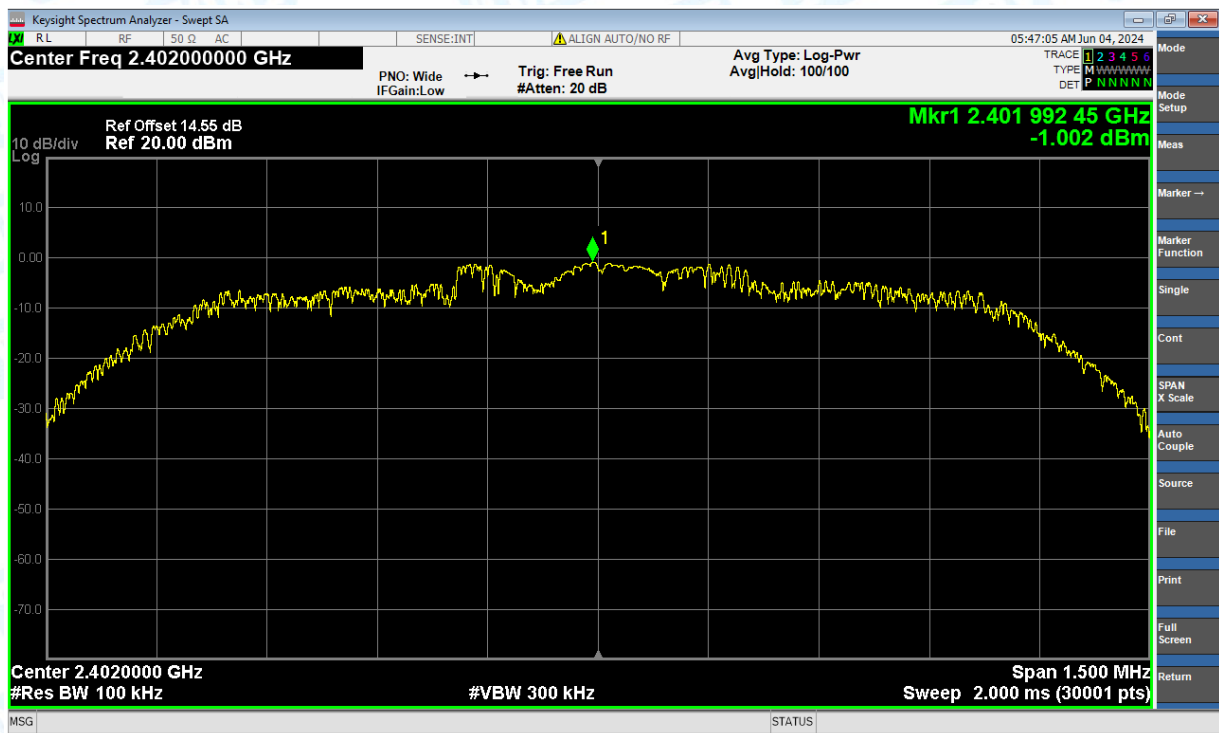
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



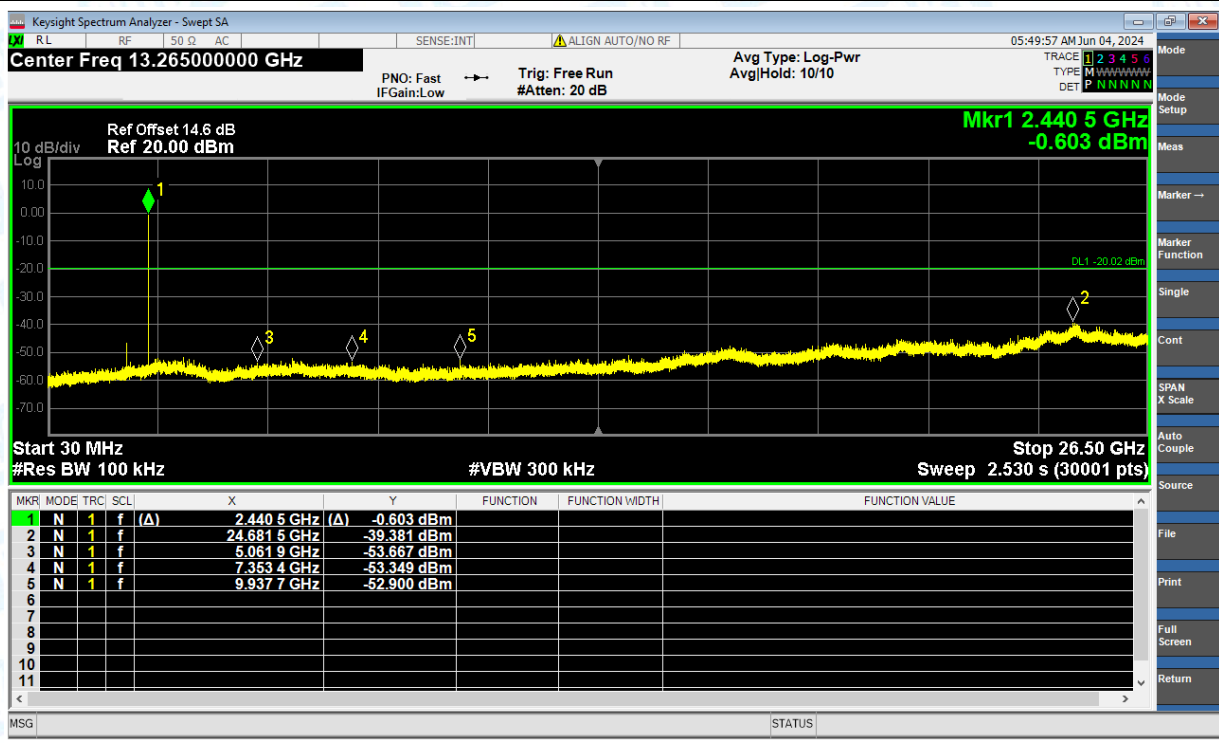
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



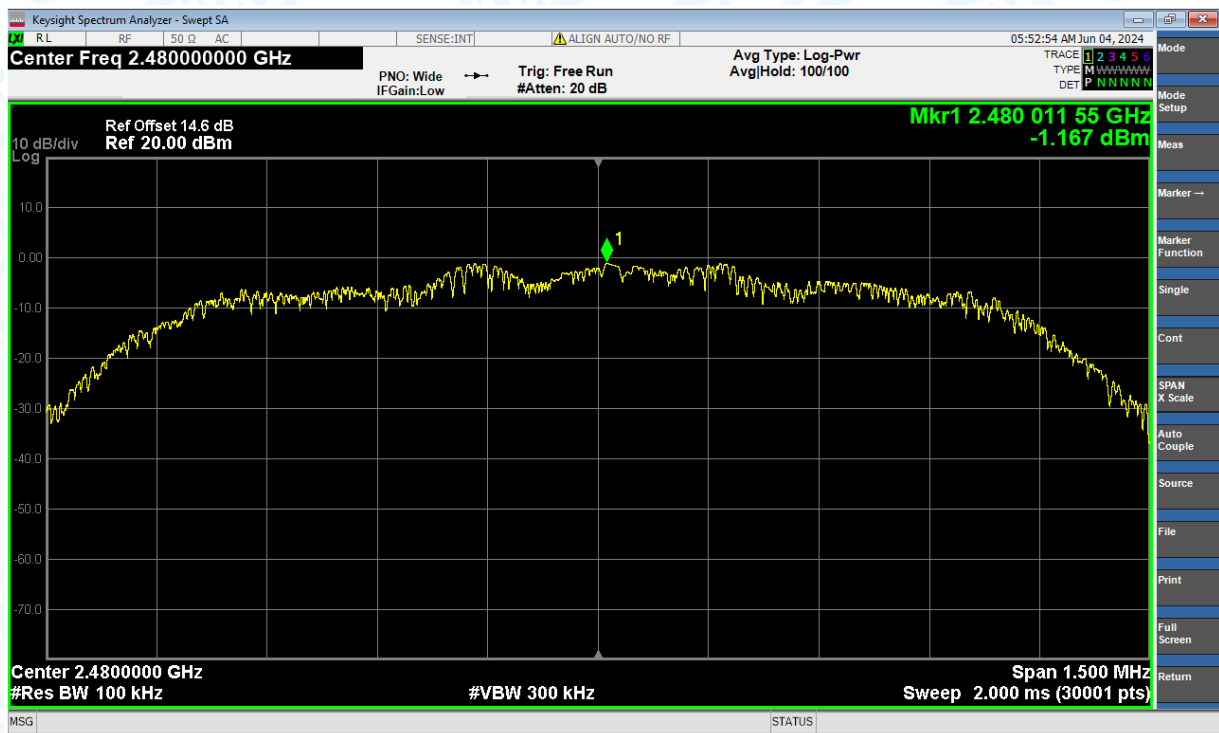
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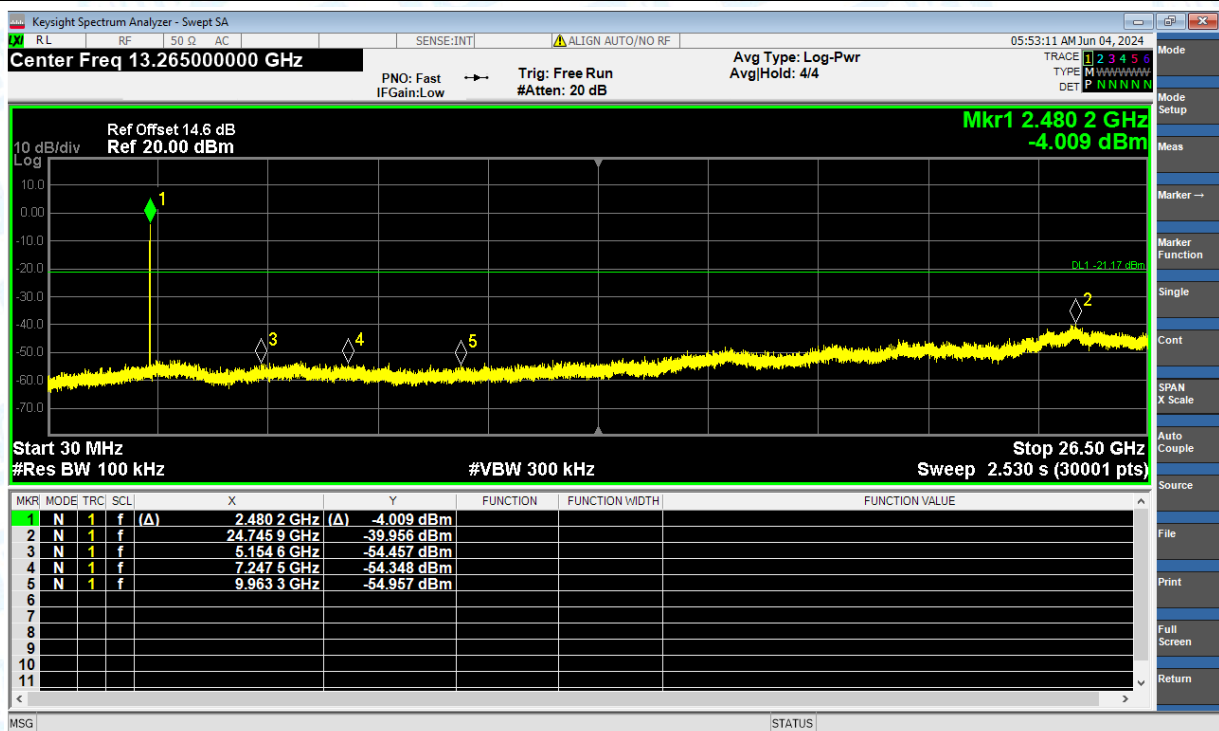
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



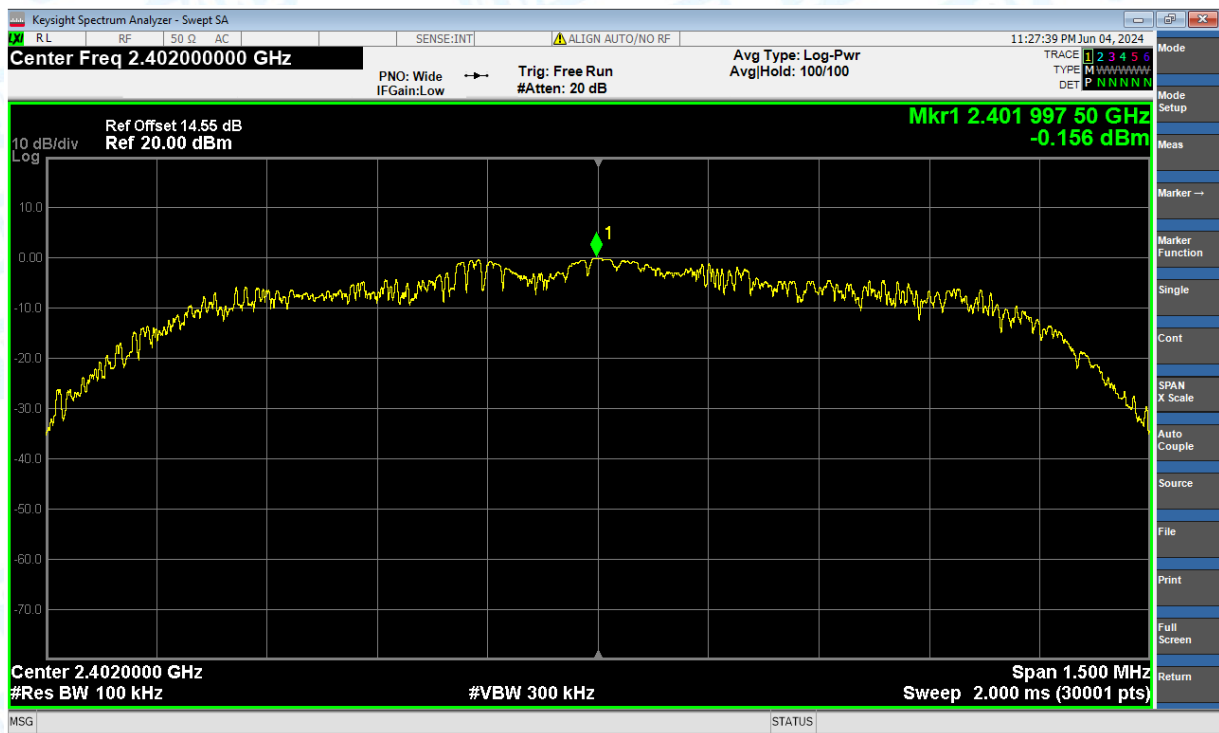
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



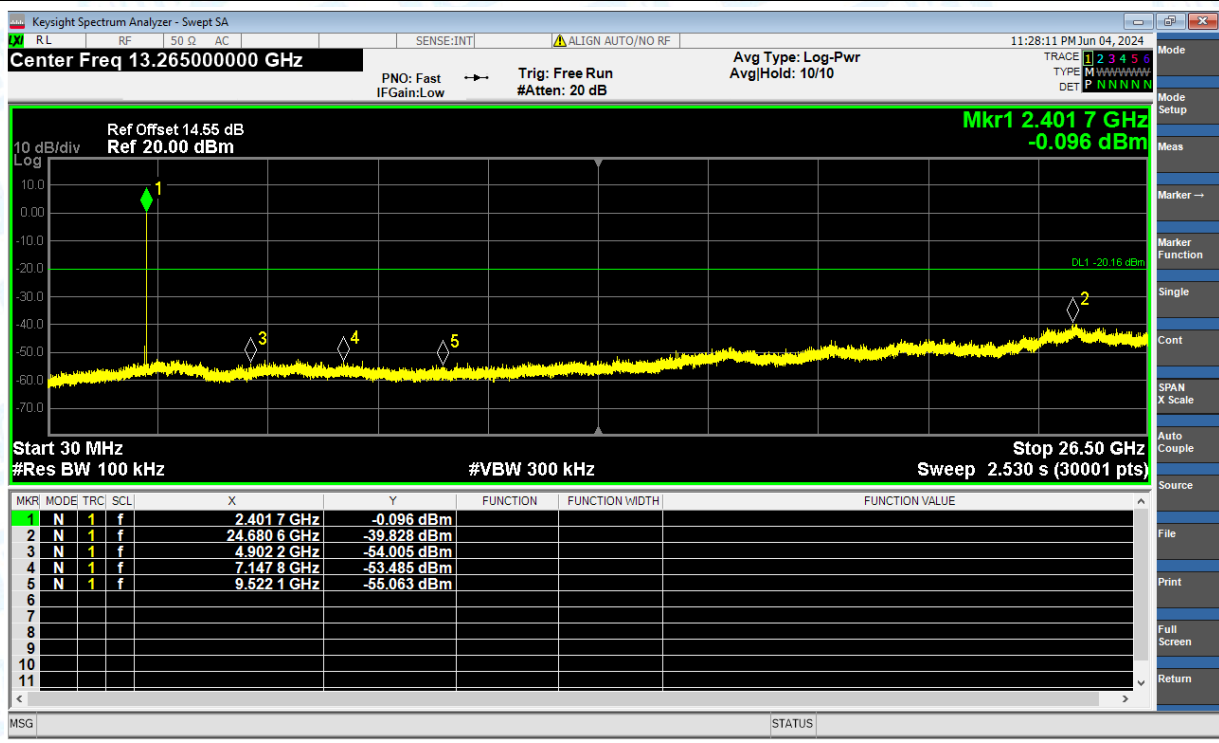
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



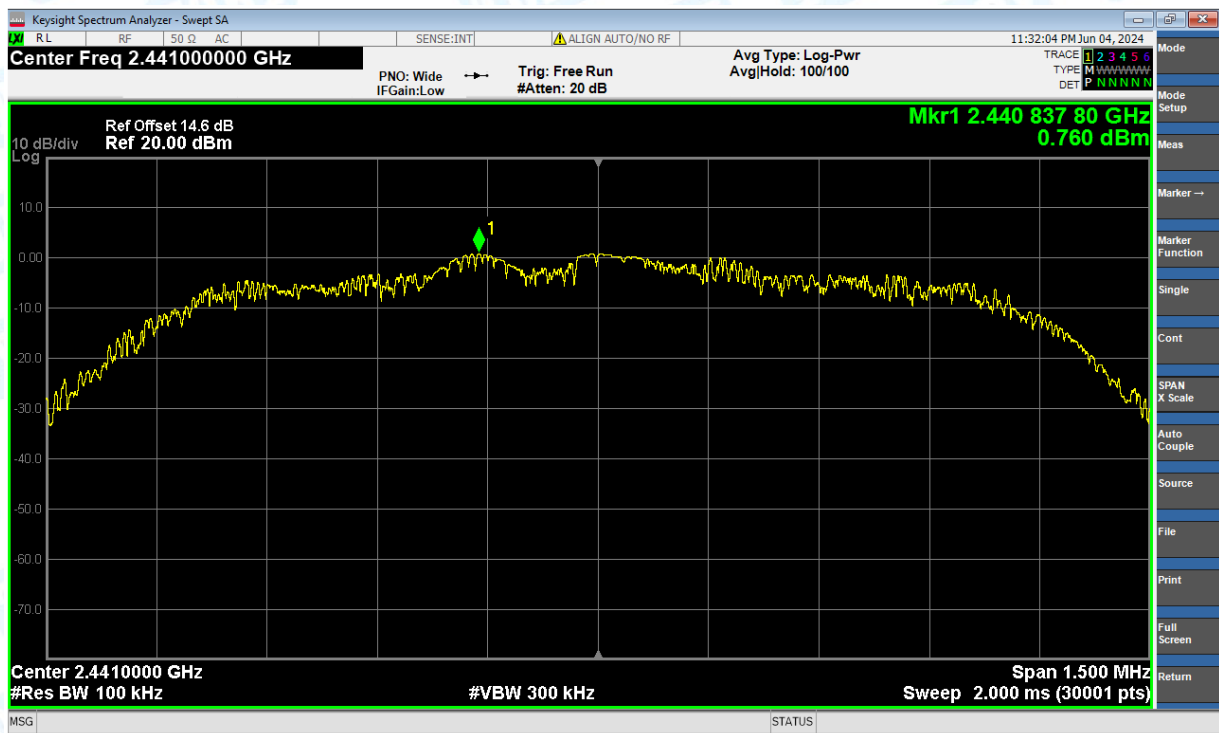
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



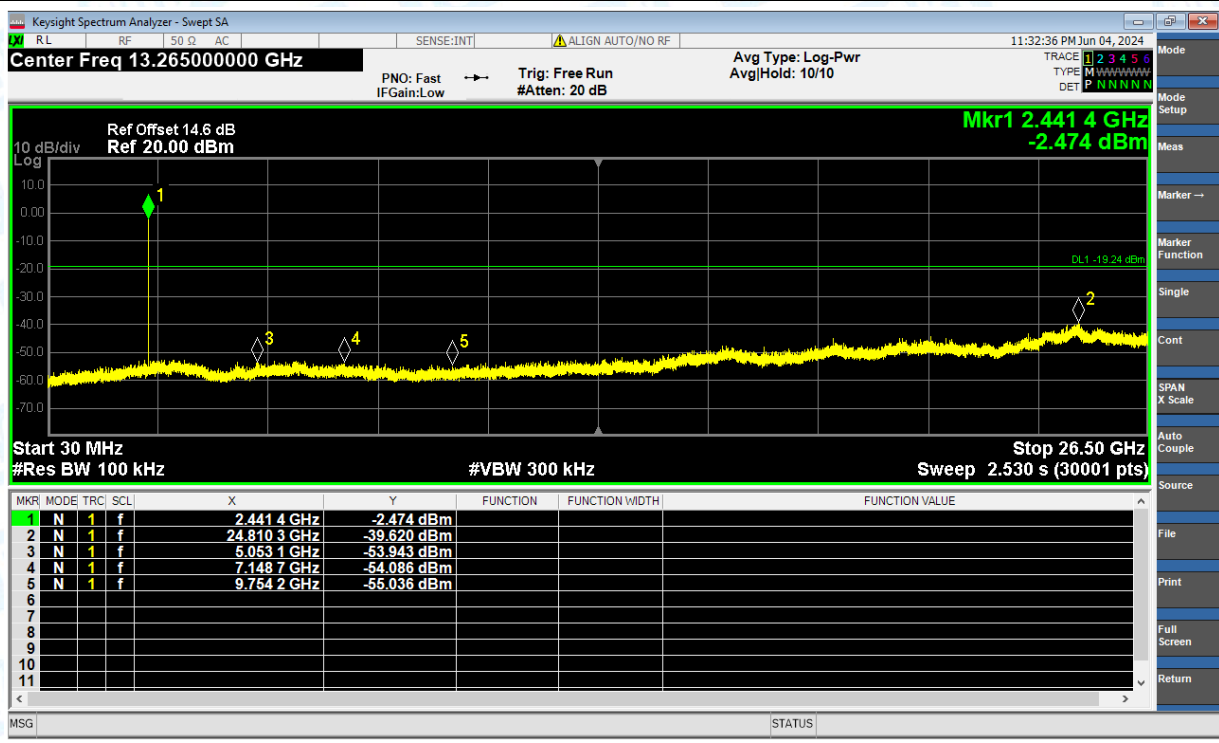
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



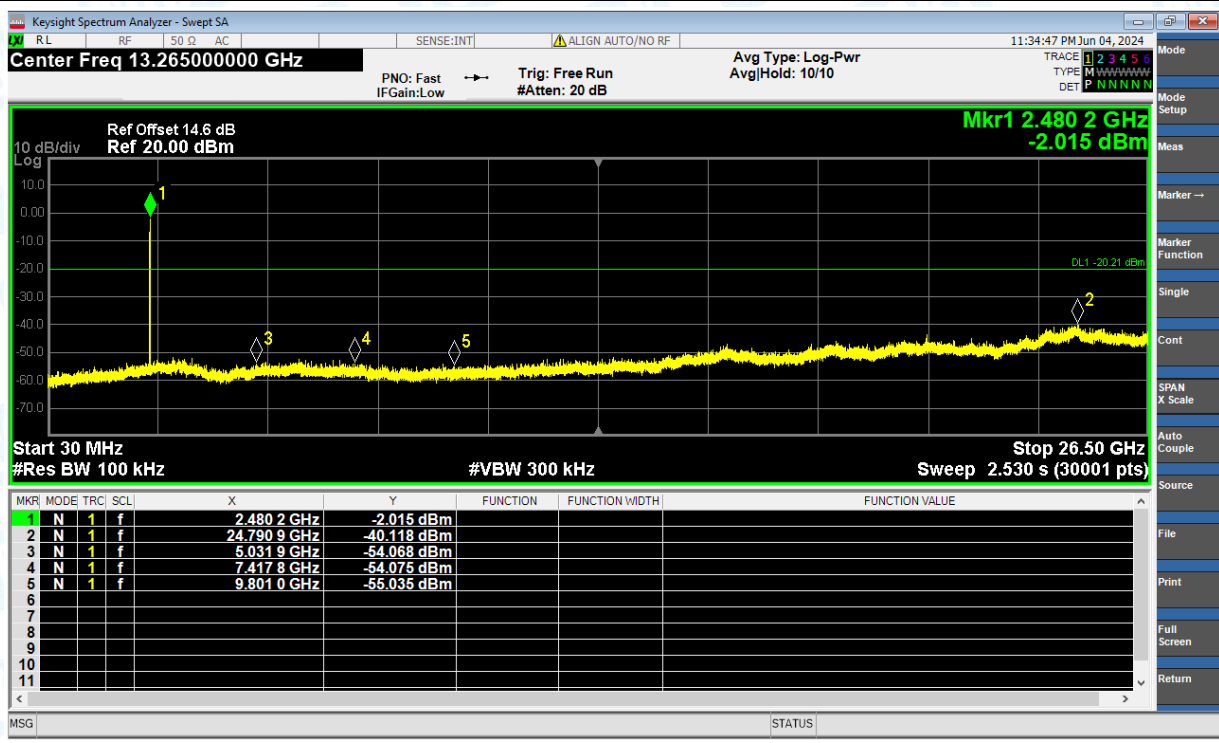
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

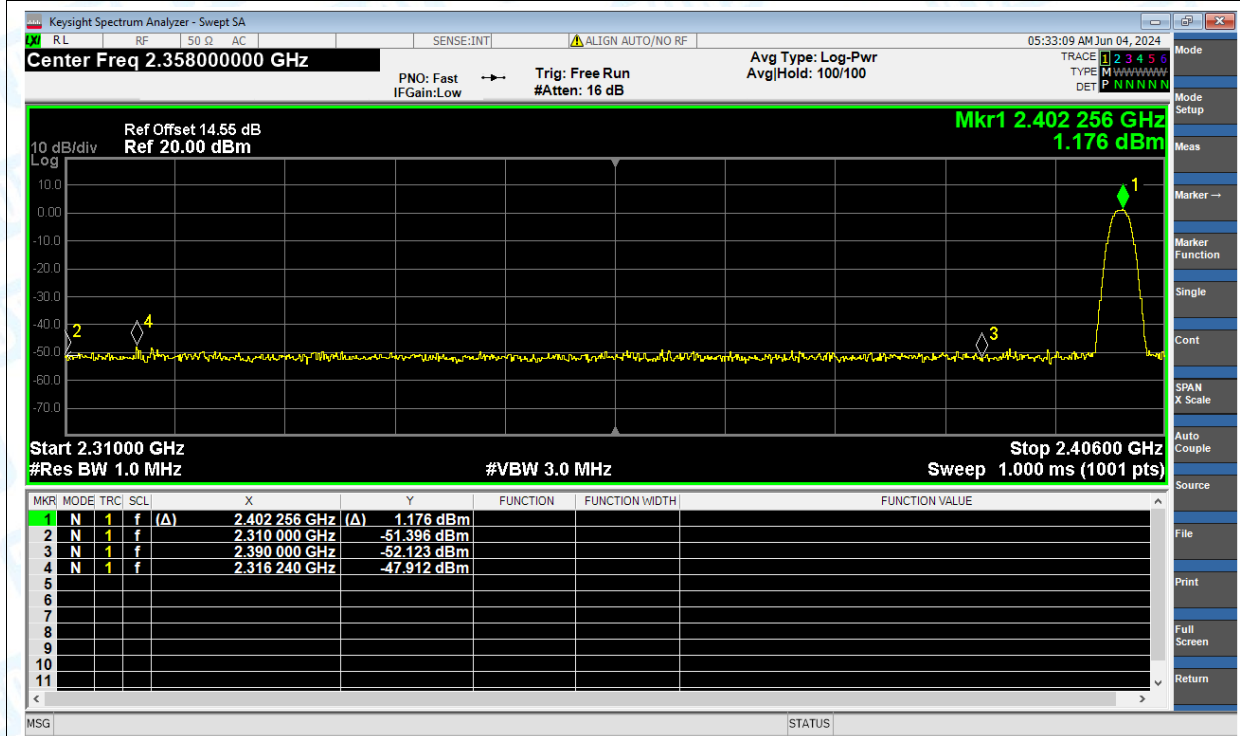


8. Restrict Band

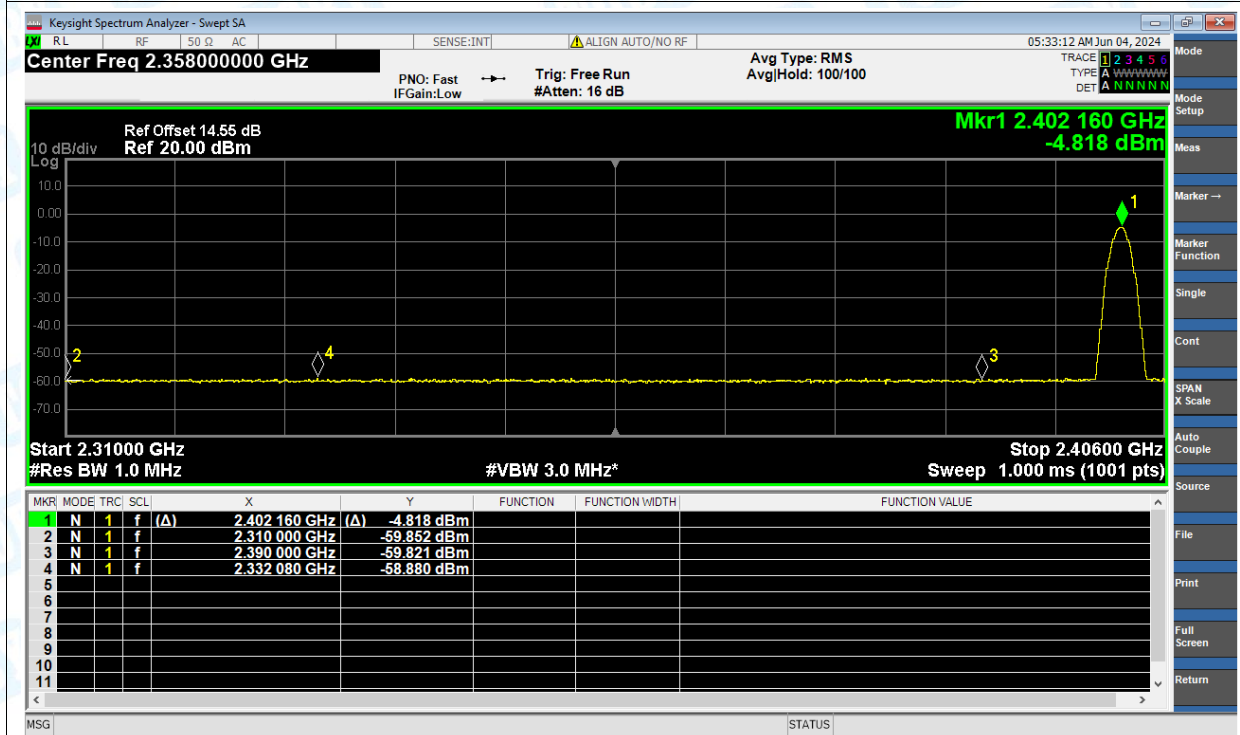
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-51.4	2	-	45.86	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-59.85	2	4.84	42.25	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2316.24	-47.91	2	-	49.35	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2332.08	-58.88	2	4.84	43.22	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52.12	2	-	45.14	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-59.82	2	4.84	42.28	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-52.07	2	-	45.19	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-58.78	2	4.84	43.32	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.328	-42.49	2	-	54.77	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2488.768	-58.61	2	4.84	43.49	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-52.46	2	-	44.8	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-59.85	2	4.84	42.25	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-53.32	2	-	43.94	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-59.68	2	4.95	42.53	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2373.36	-48.63	2	-	48.63	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2367.12	-59.04	2	4.95	43.17	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-50.85	2	-	46.41	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-60.08	2	4.95	42.13	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-52.39	2	-	44.87	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-58.84	2	4.95	43.37	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.984	-45.87	2	-	51.39	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.584	-58.55	2	4.95	43.66	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-50.66	2	-	46.6	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-59.58	2	4.95	42.63	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-51.84	2	-	45.42	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-59.61	2	5.06	42.71	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2372.208	-49.12	2	-	48.14	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.968	-59.02	2	5.06	43.3	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-51.72	2	-	45.54	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-59.02	2	5.06	43.3	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-50.81	2	-	46.45	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-59.18	2	4.95	43.03	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2497.888	-48.2	2	-	49.06	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.04	-58.5	2	4.95	43.71	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-50.52	2	-	46.74	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-59.34	2	4.95	42.87	Average	54	Pass

Test Graphs

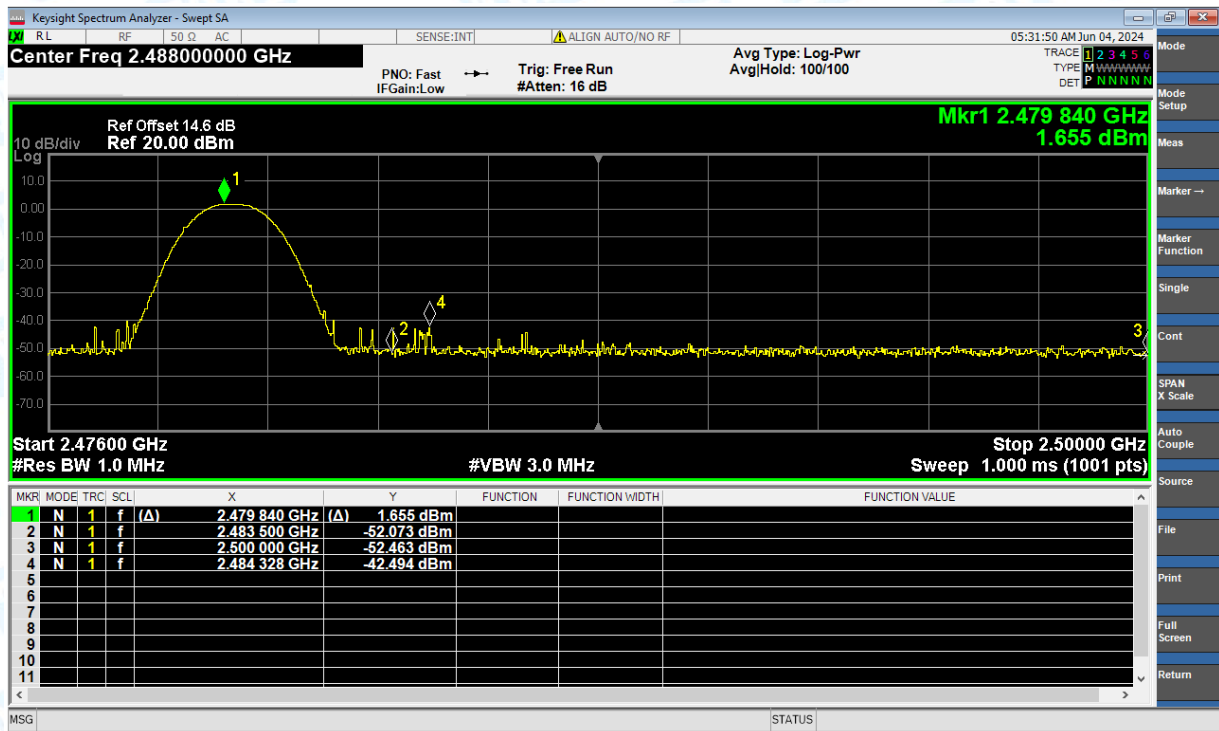
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



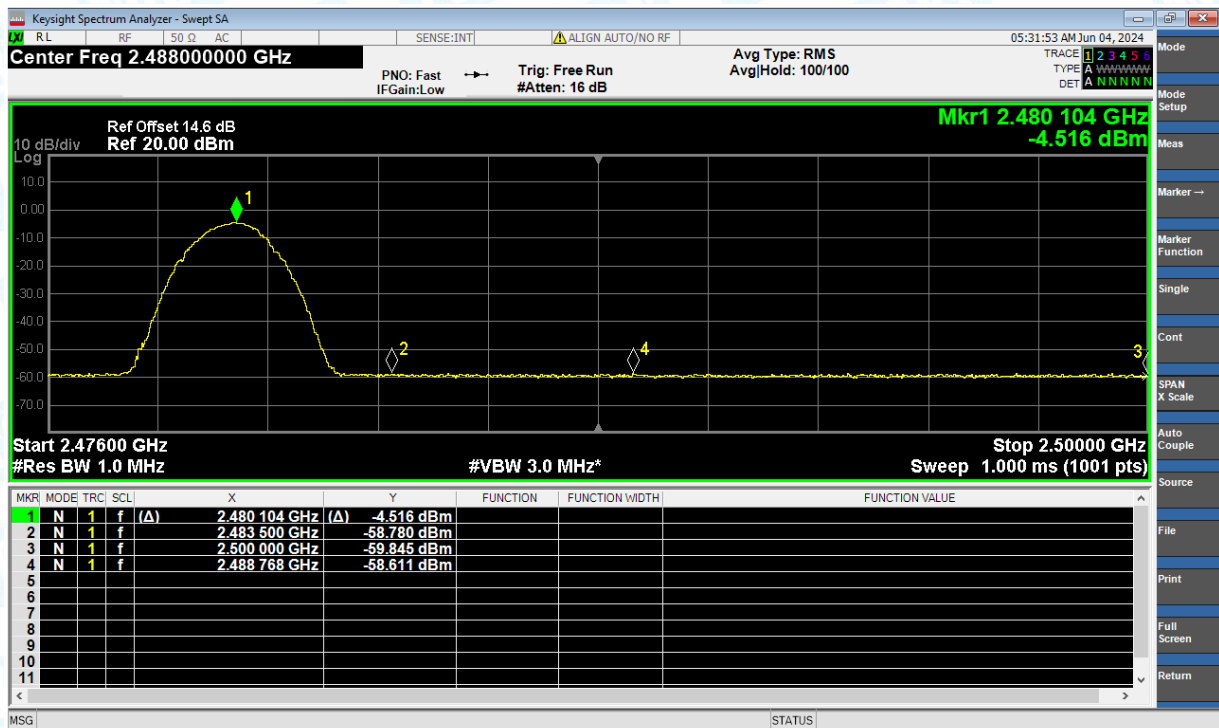
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



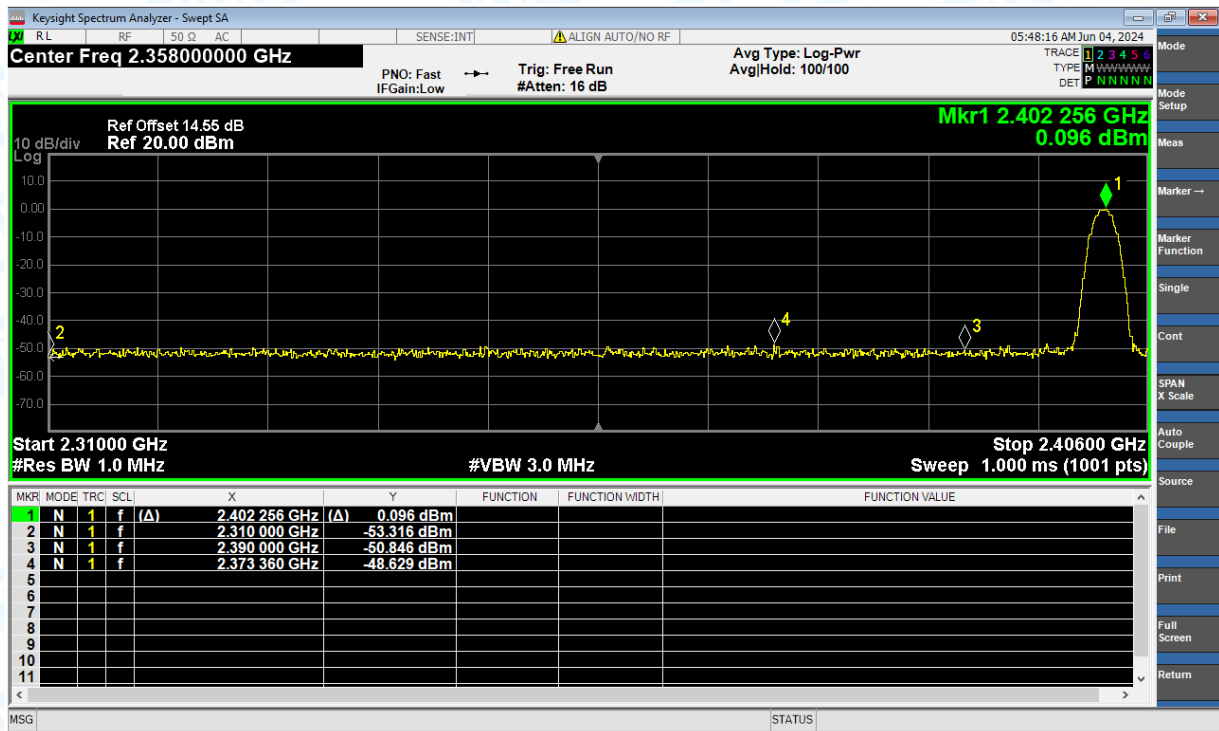
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



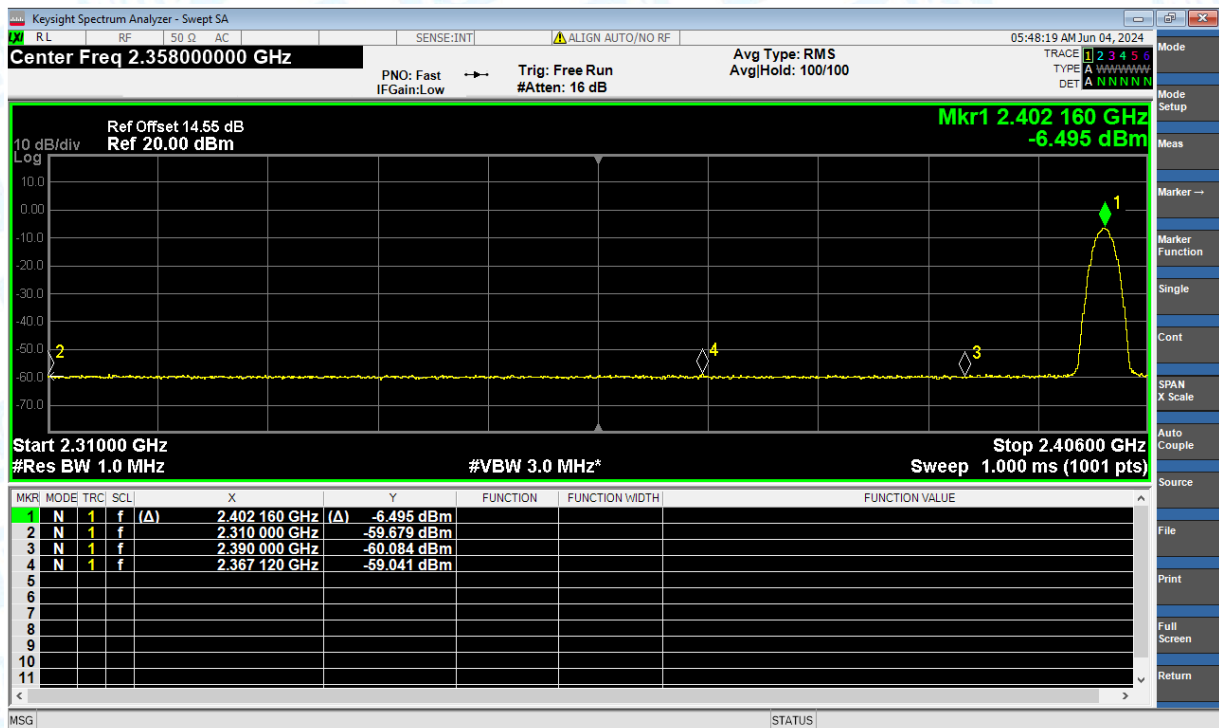
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



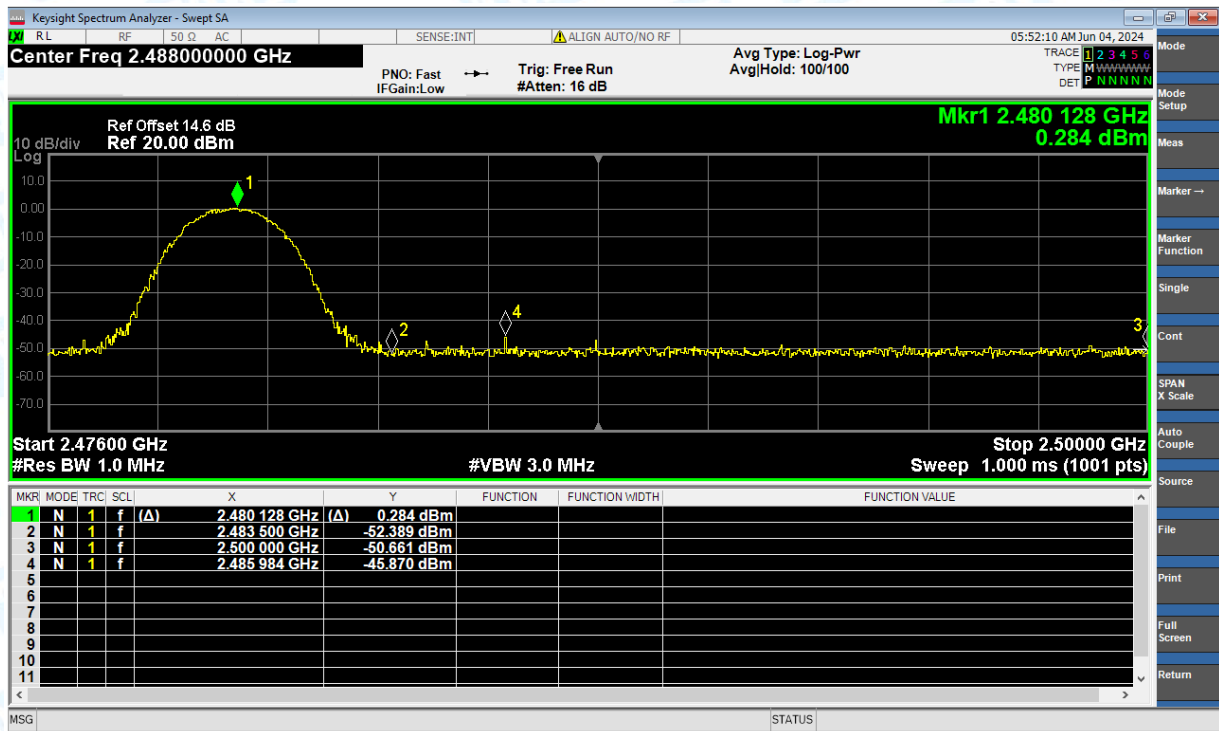
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



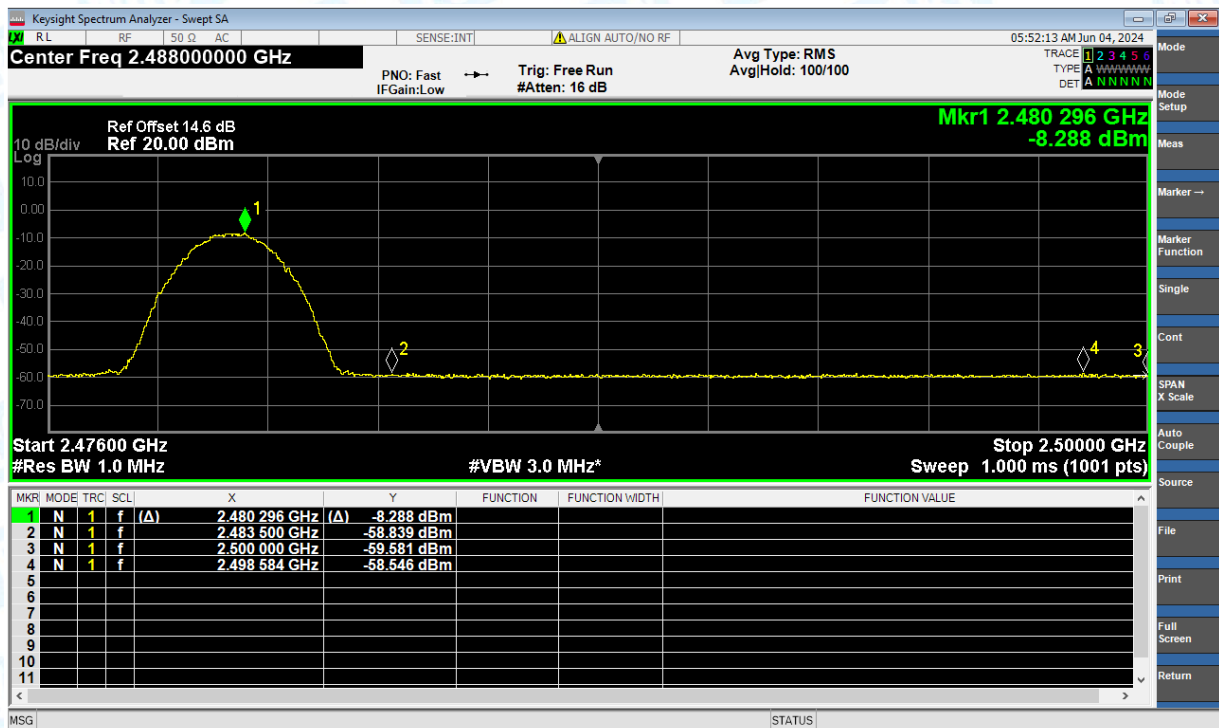
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



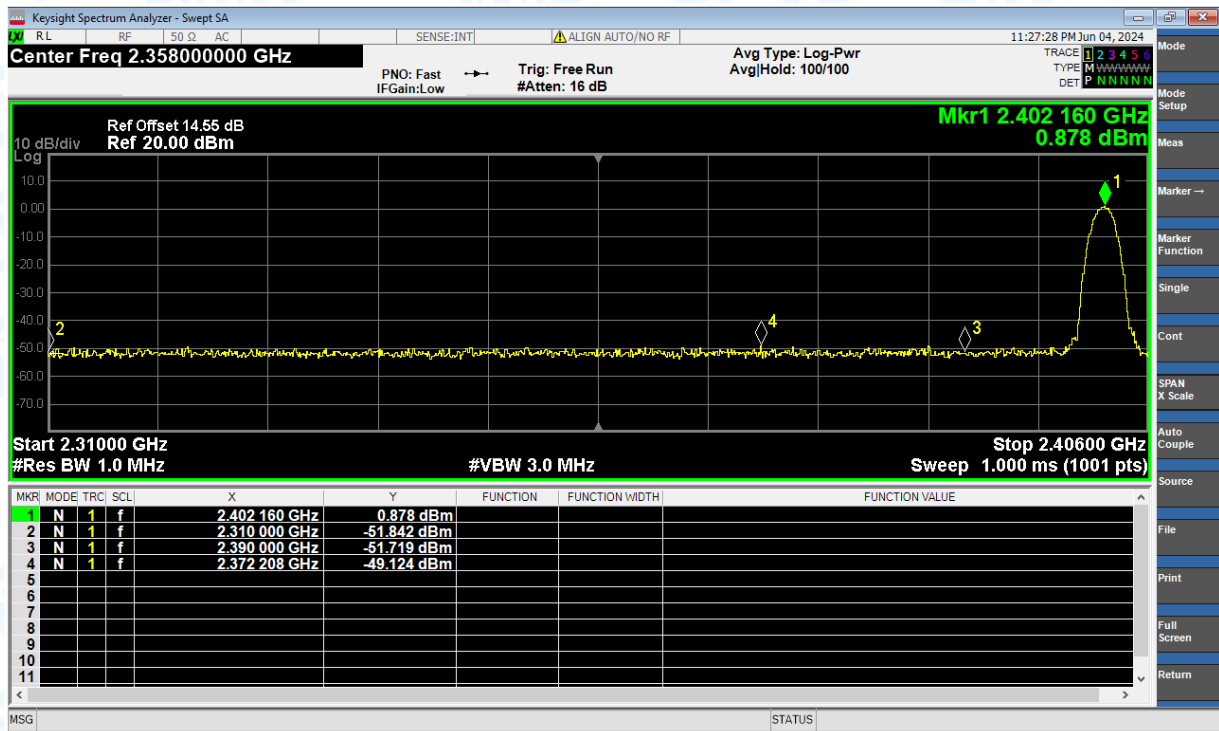
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



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



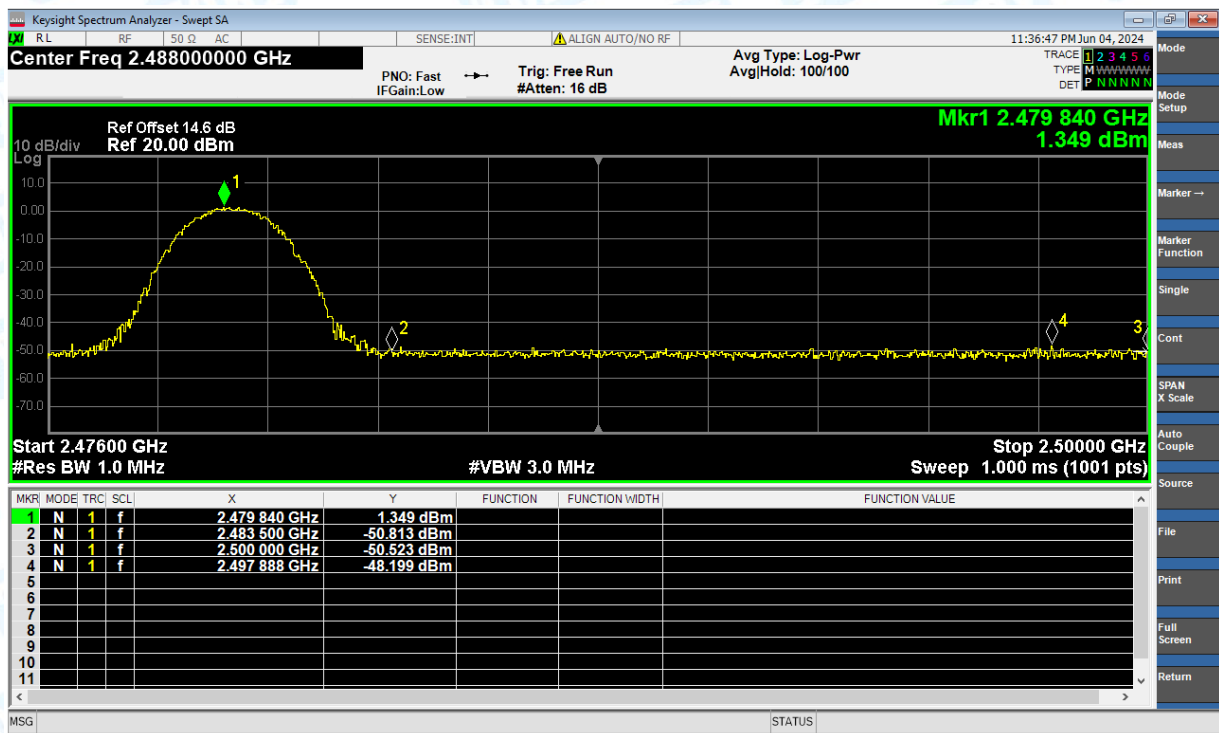
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



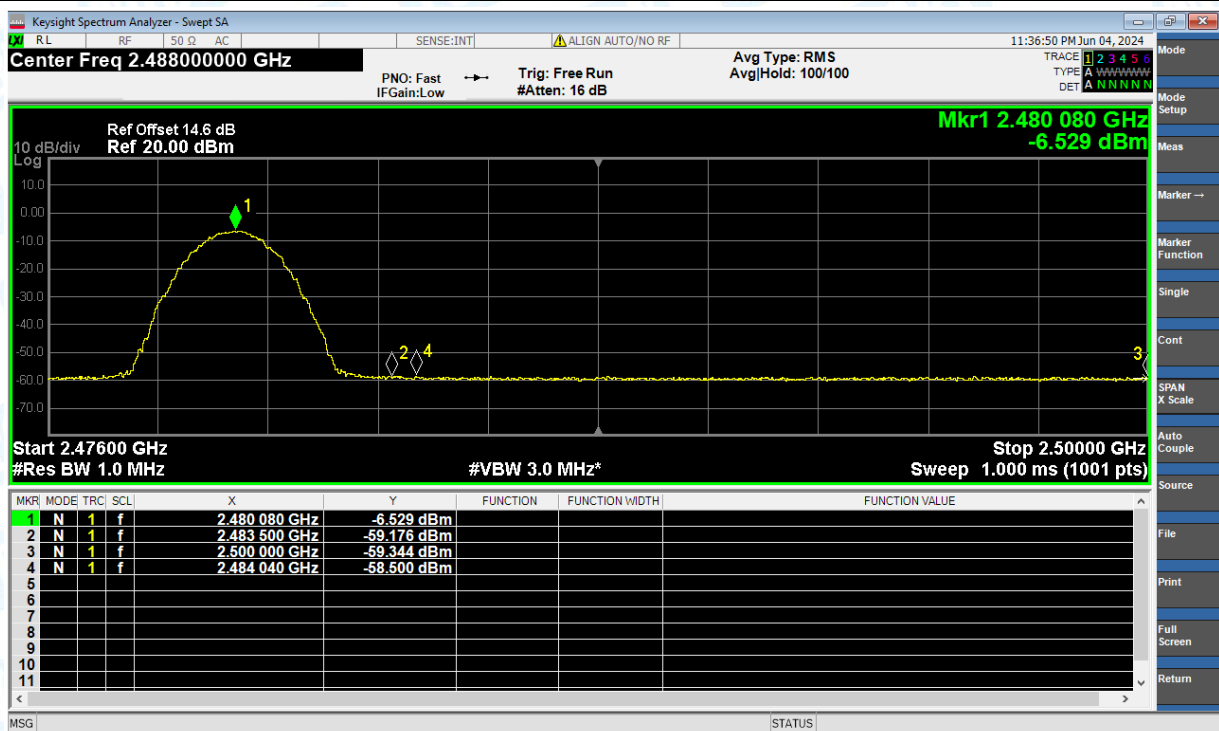
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

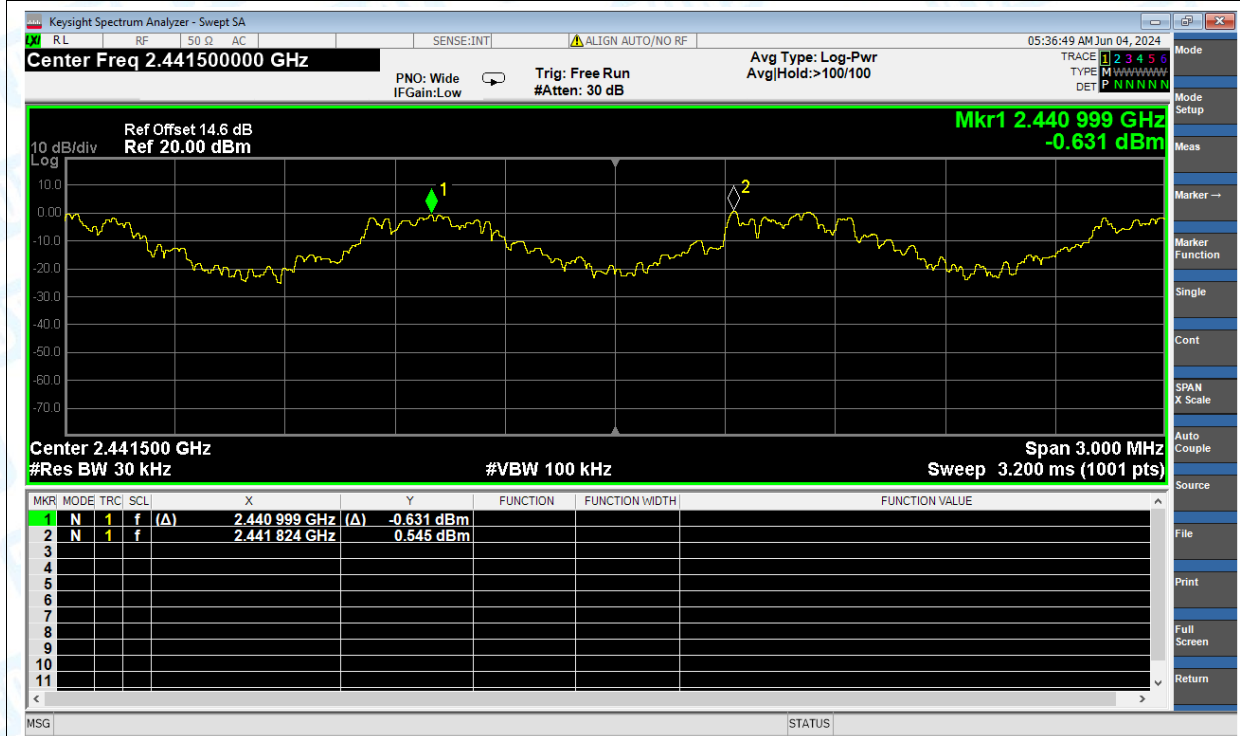


9. Carrier Frequencies Separation

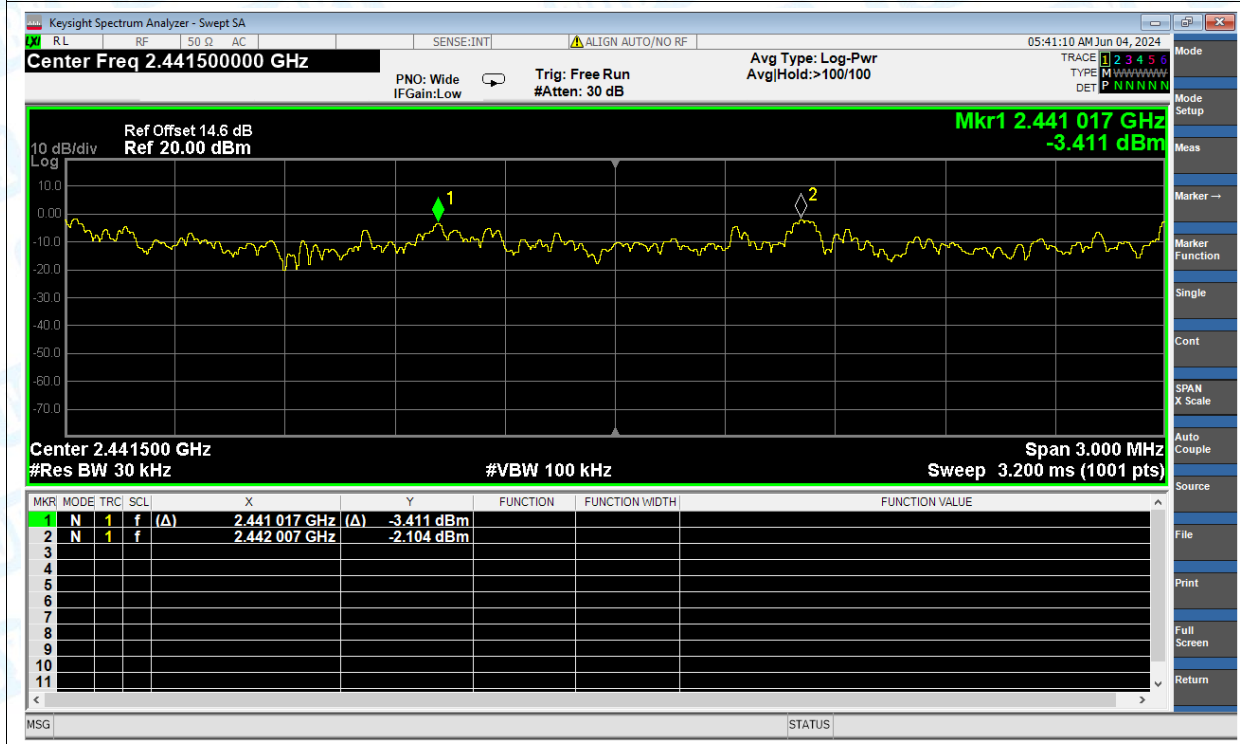
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.999	2441.824	0.825	0.58	Pass
NVNT	2-DH1	Ant1	2441.017	2442.007	0.99	0.025	Pass
NVNT	3-DH1	Ant1	2441.02	2442.037	1.017	0.833	Pass

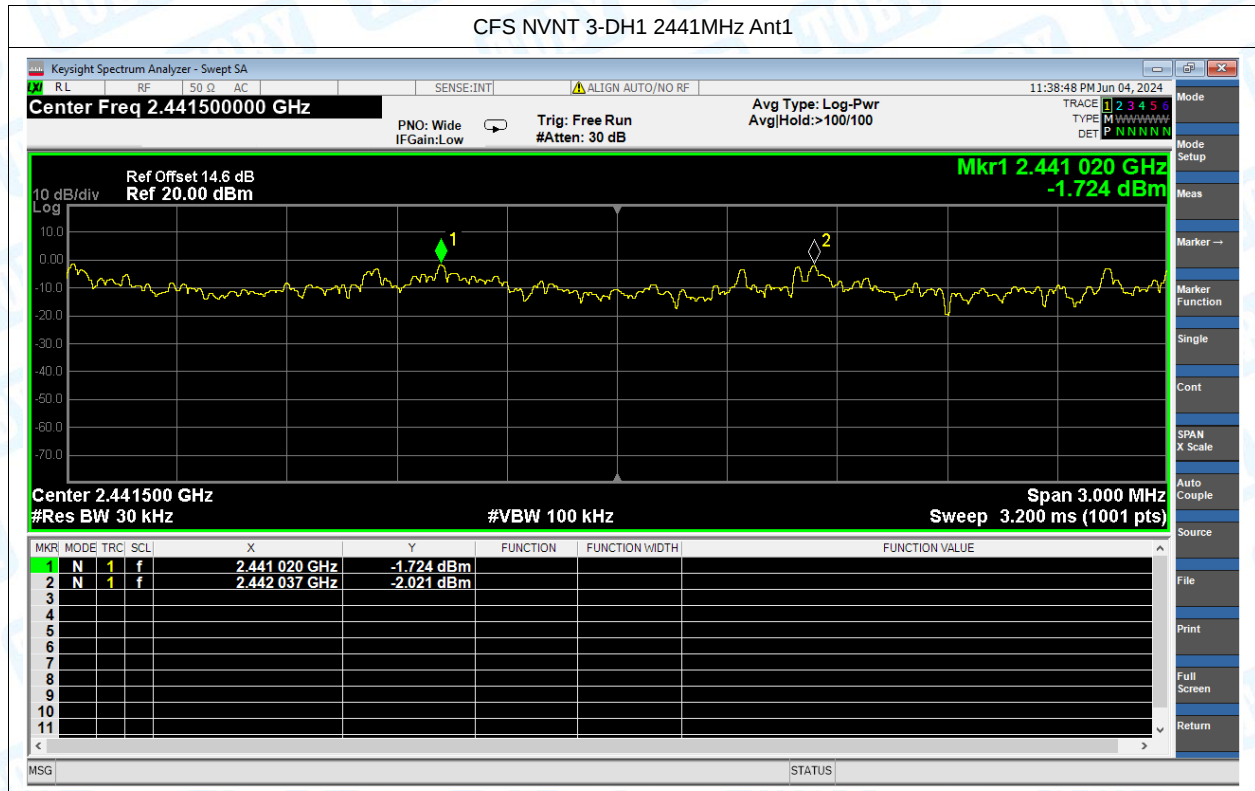
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



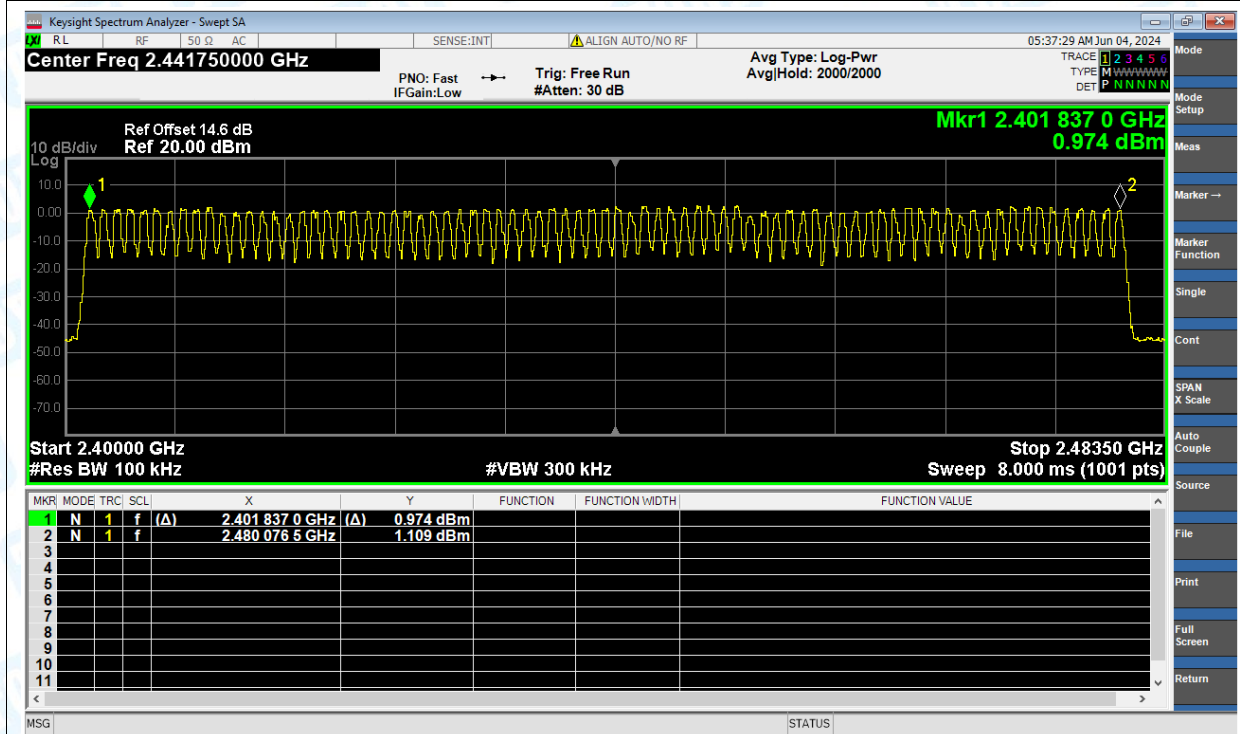


10. Number of Hopping Channel

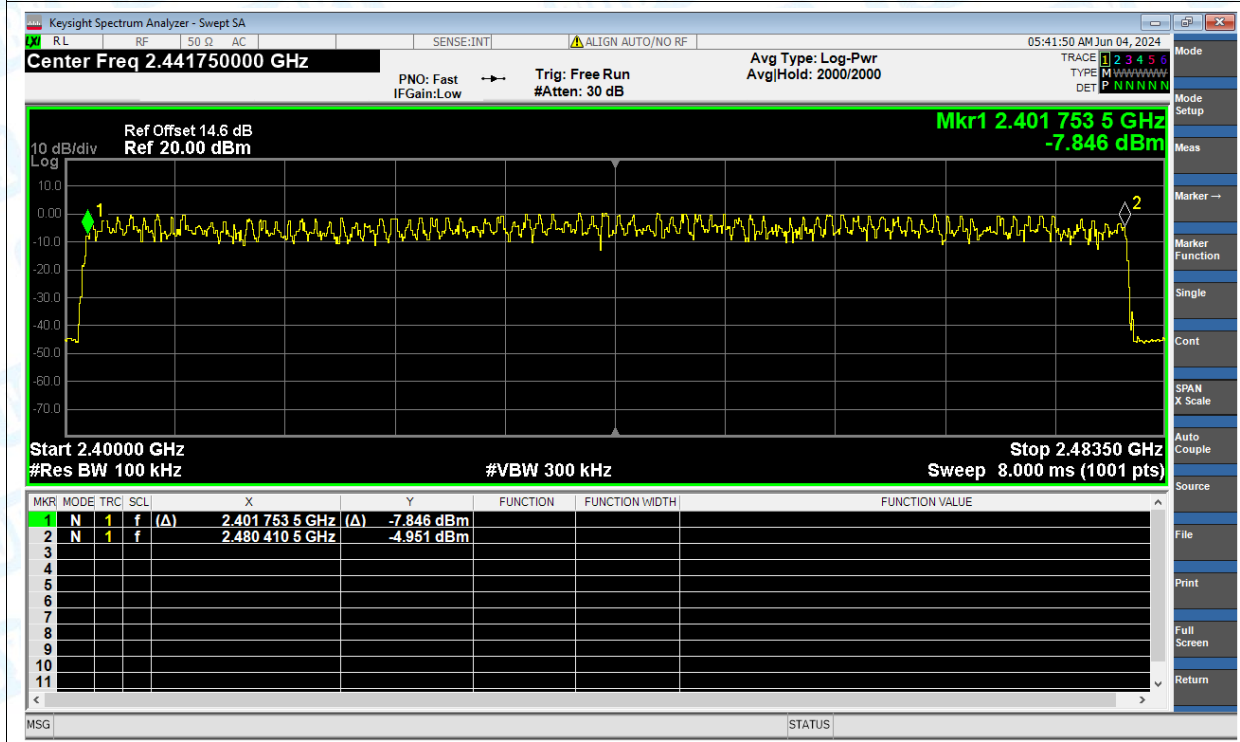
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

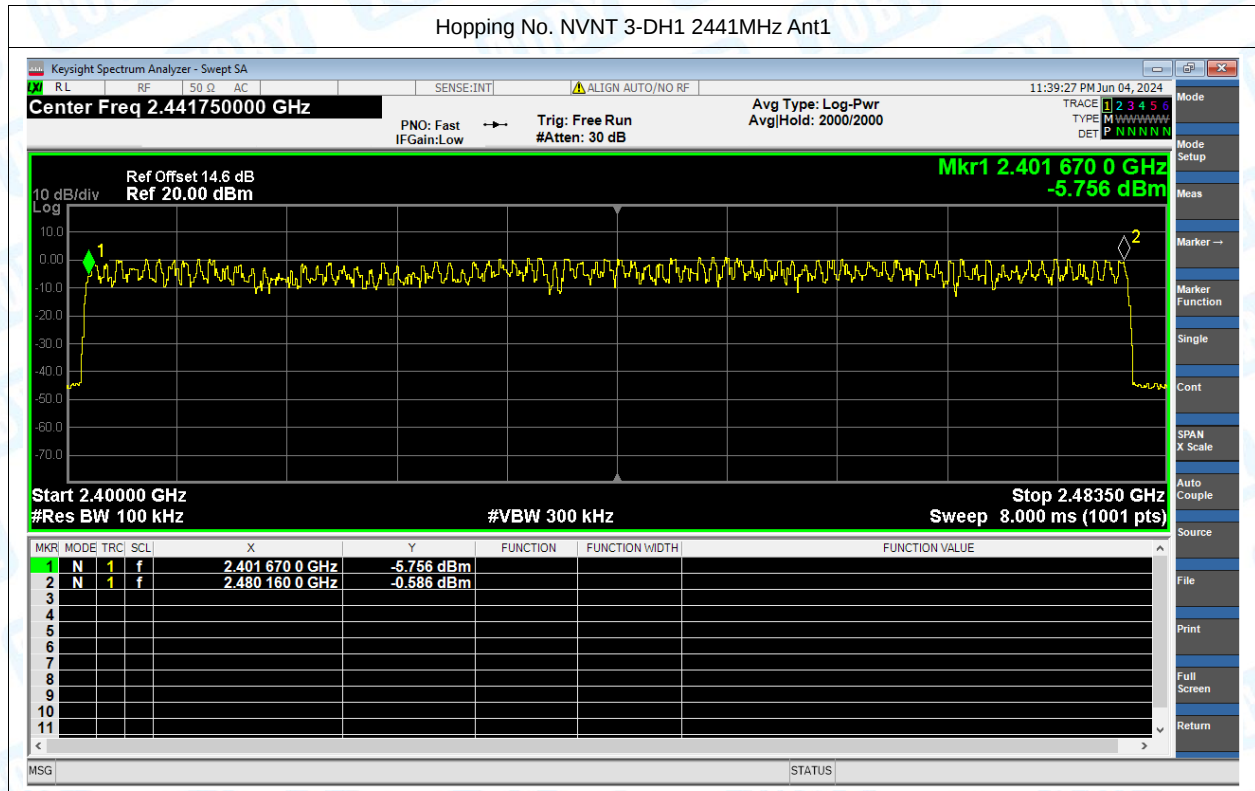
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



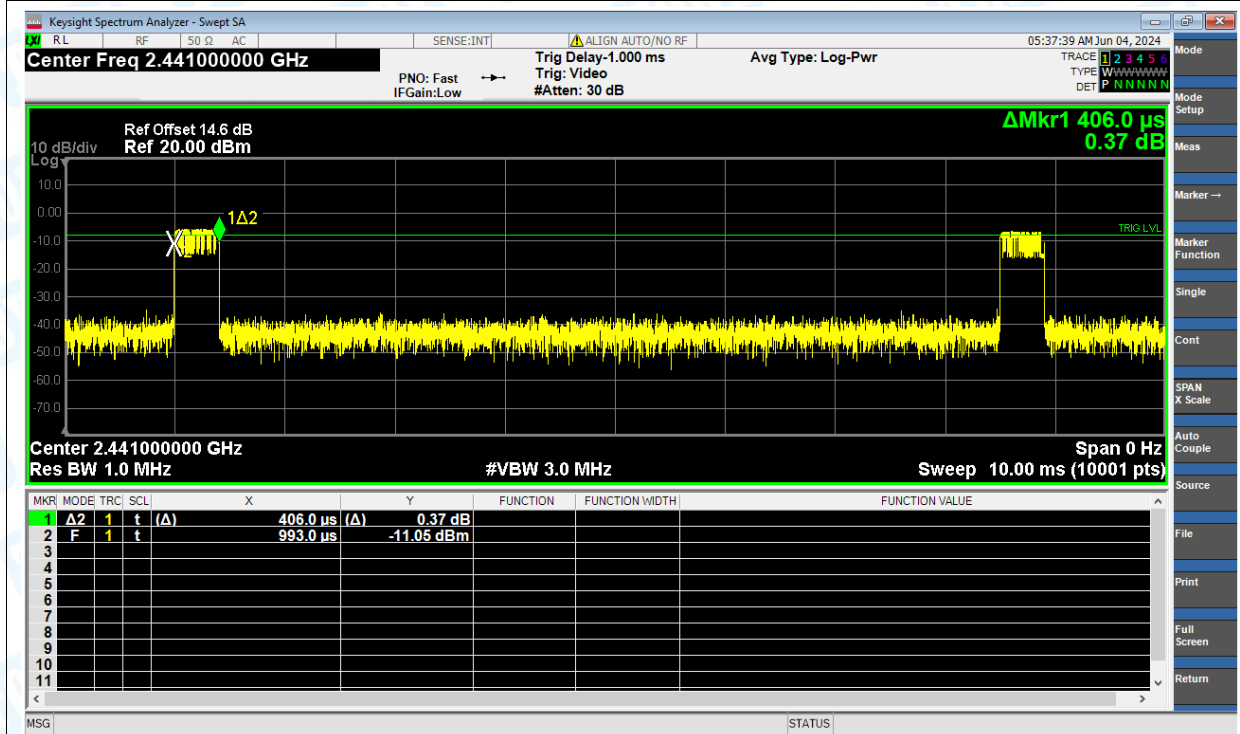


11. Dwell Time

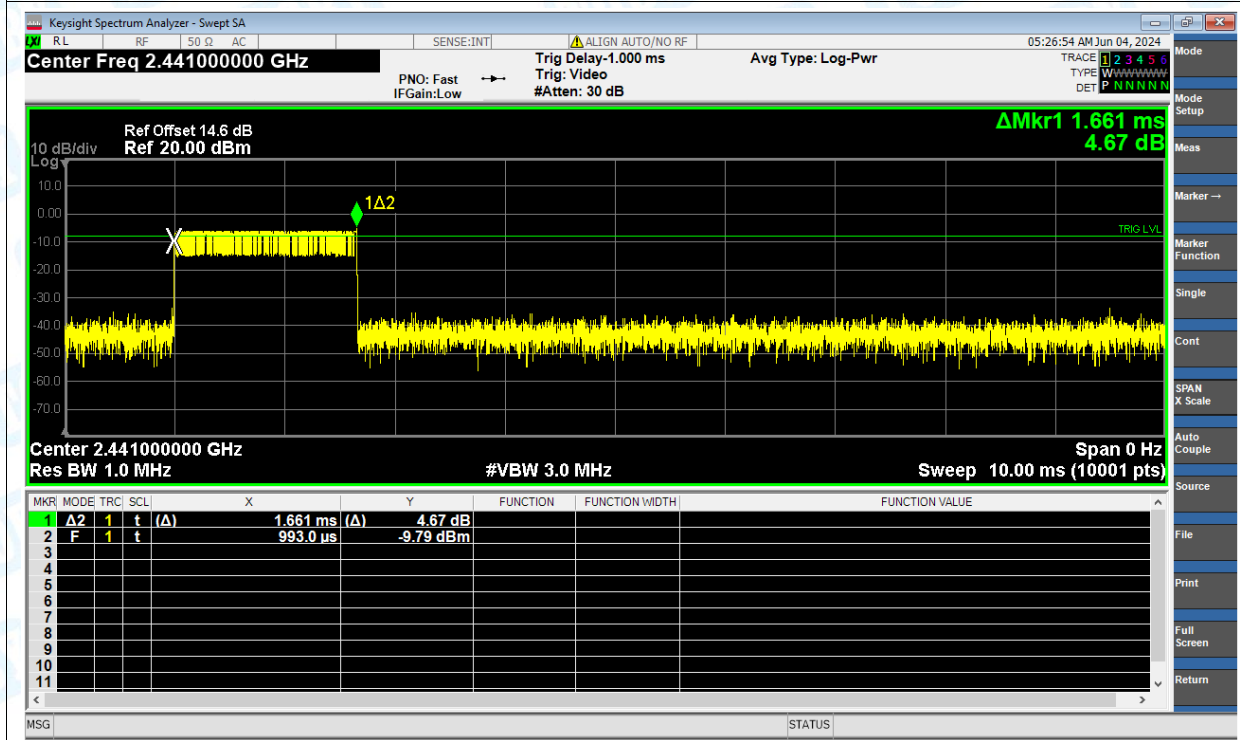
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.406	129.92	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.661	265.76	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.91	310.4	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.398	127.36	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.65	264	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.898	309.12	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.396	126.72	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.646	263.36	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.897	309.013	31600	400	Pass

Test Graphs

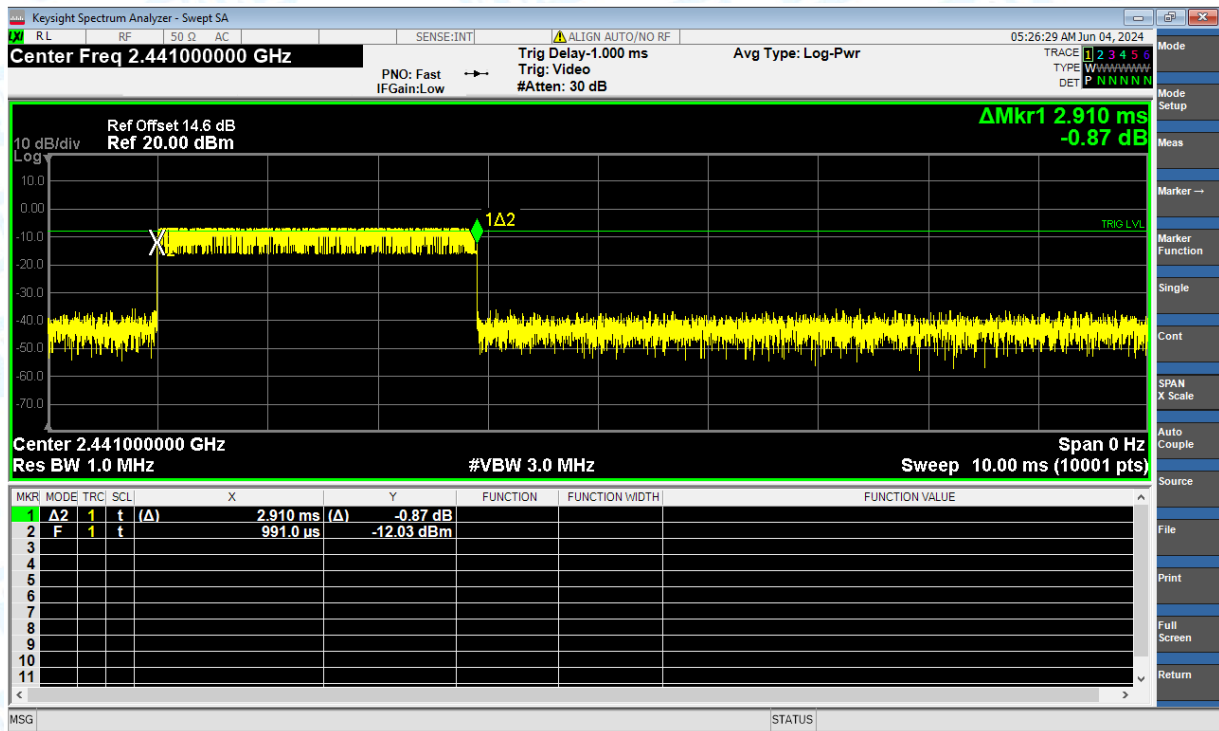
Dwell NVNT 1-DH1 2441MHz Ant1



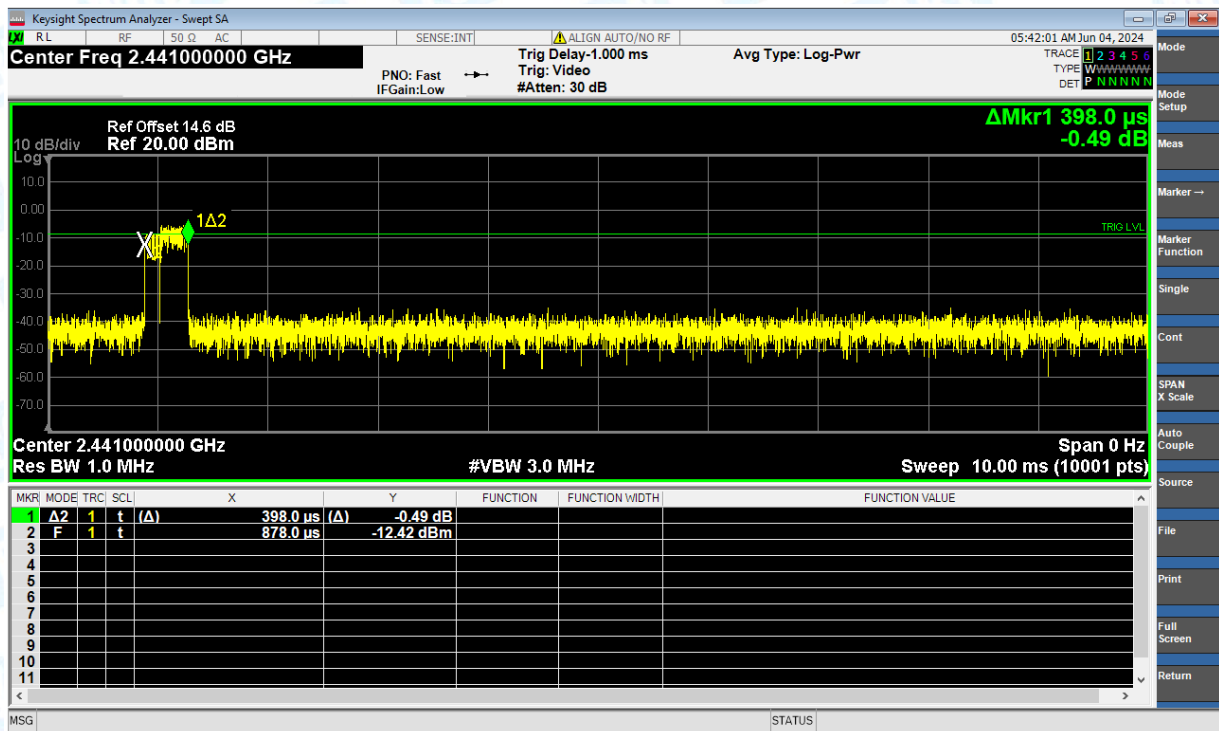
Dwell NVNT 1-DH3 2441MHz Ant1



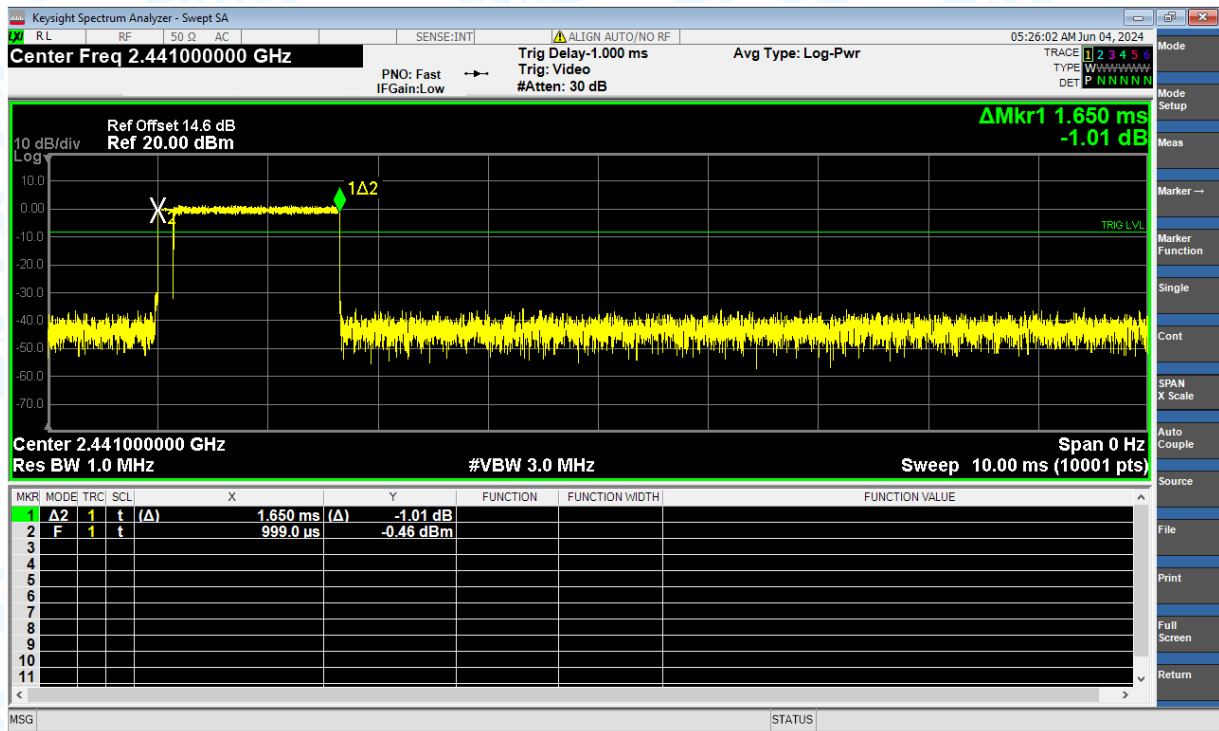
Dwell NVNT 1-DH5 2441MHz Ant1



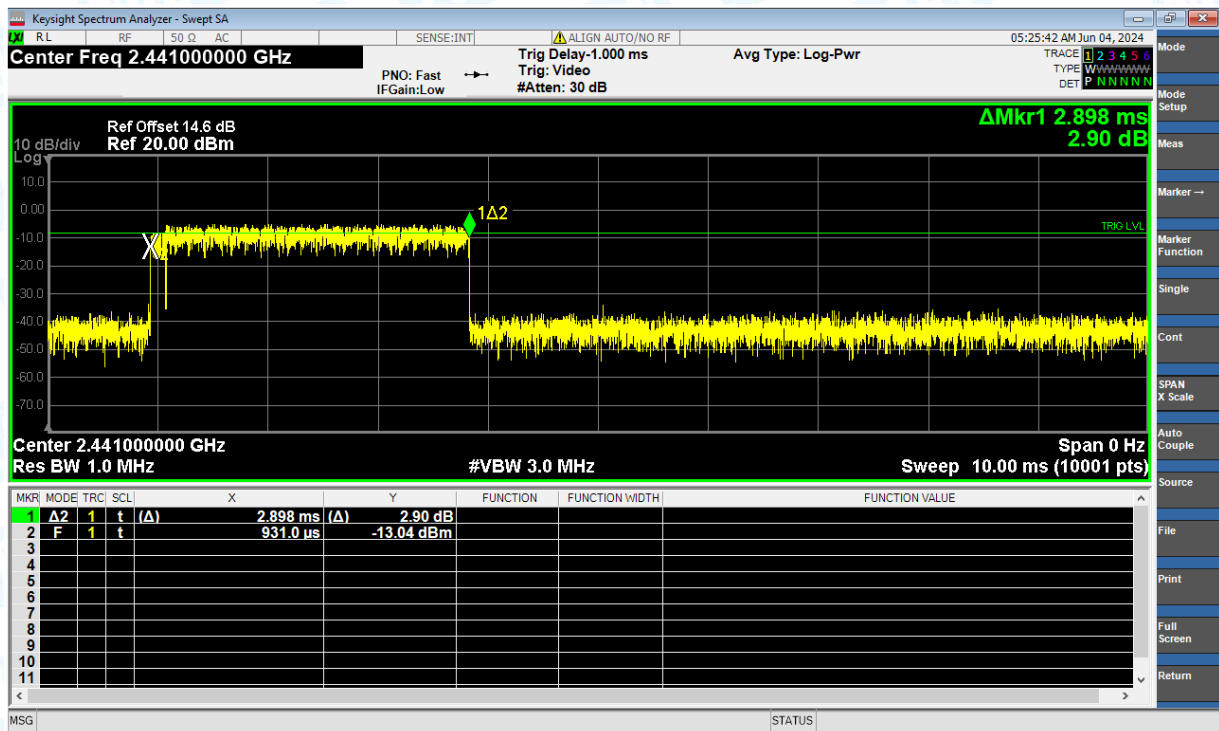
Dwell NVNT 2-DH1 2441MHz Ant1



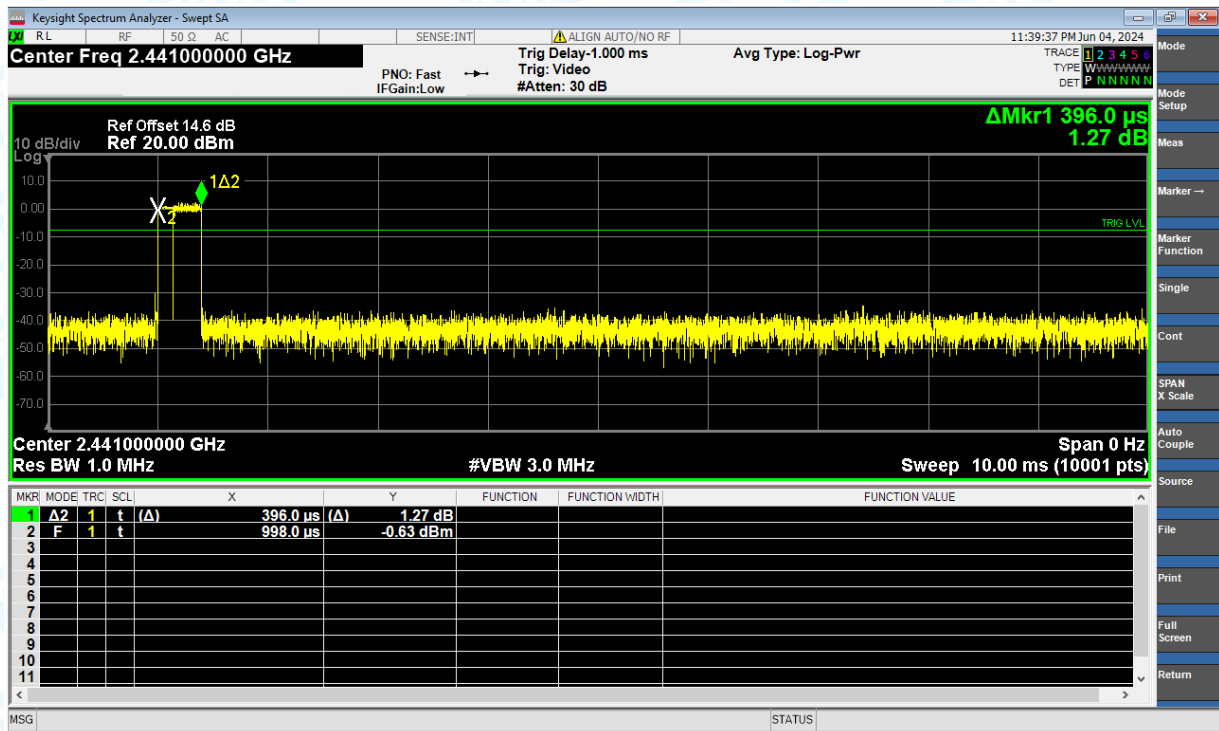
Dwell NVNT 2-DH3 2441MHz Ant1



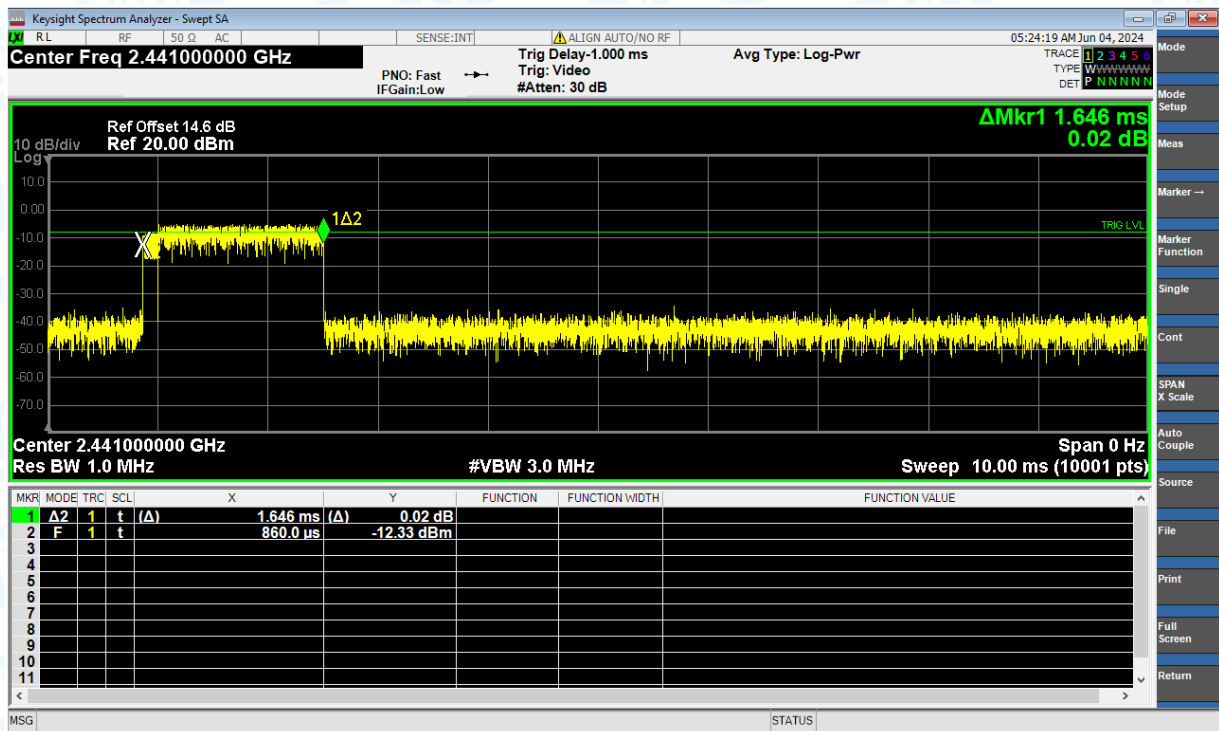
Dwell NVNT 2-DH5 2441MHz Ant1

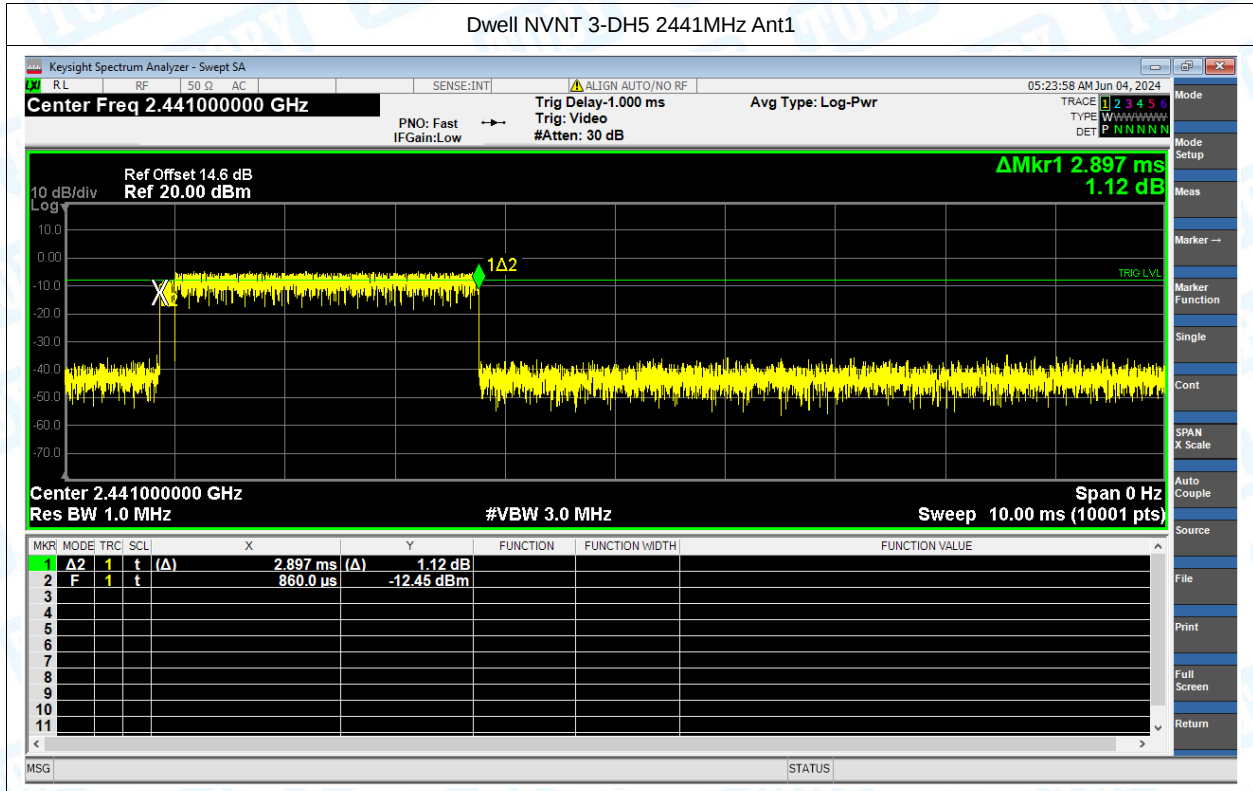


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





----End of report----