RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Micro HiFi System
Test Model:	MC-605
Sample ID:	HC-C-202405-0001-01-02
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	54%
Test Voltage:	AC 120V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202406-0001-3 The report only show the worst case data.	

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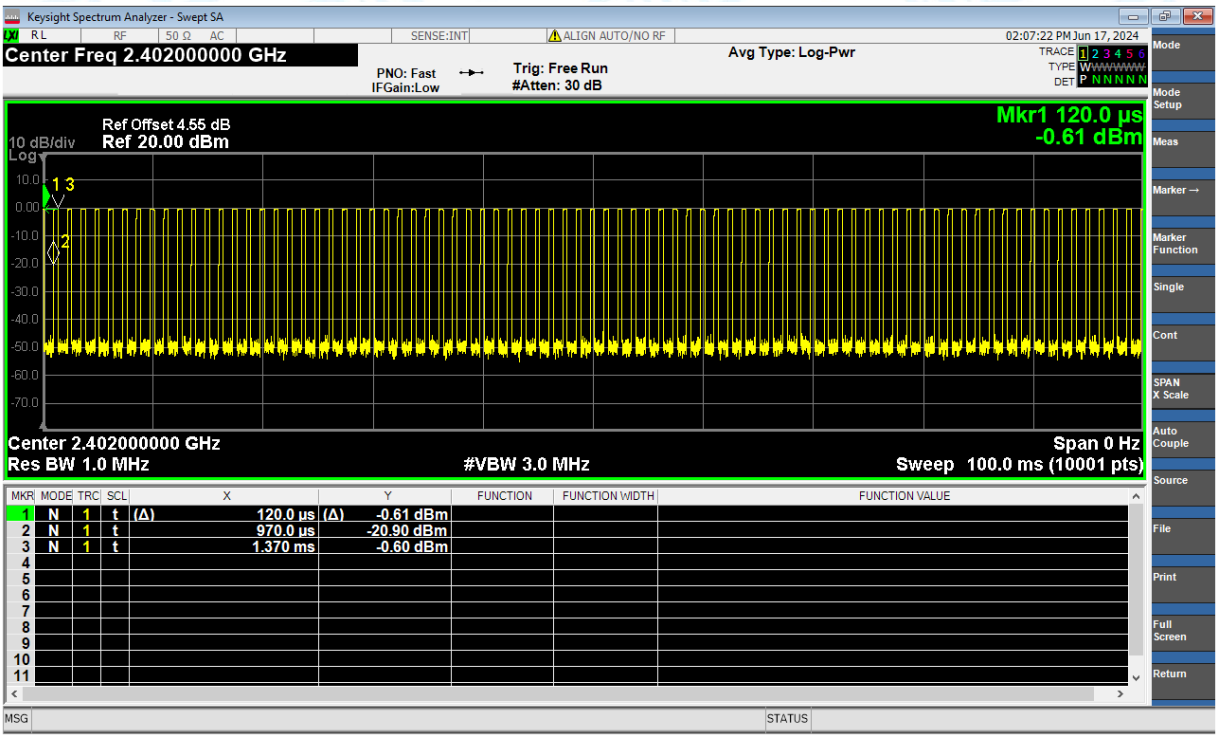
1. Duty Cycle

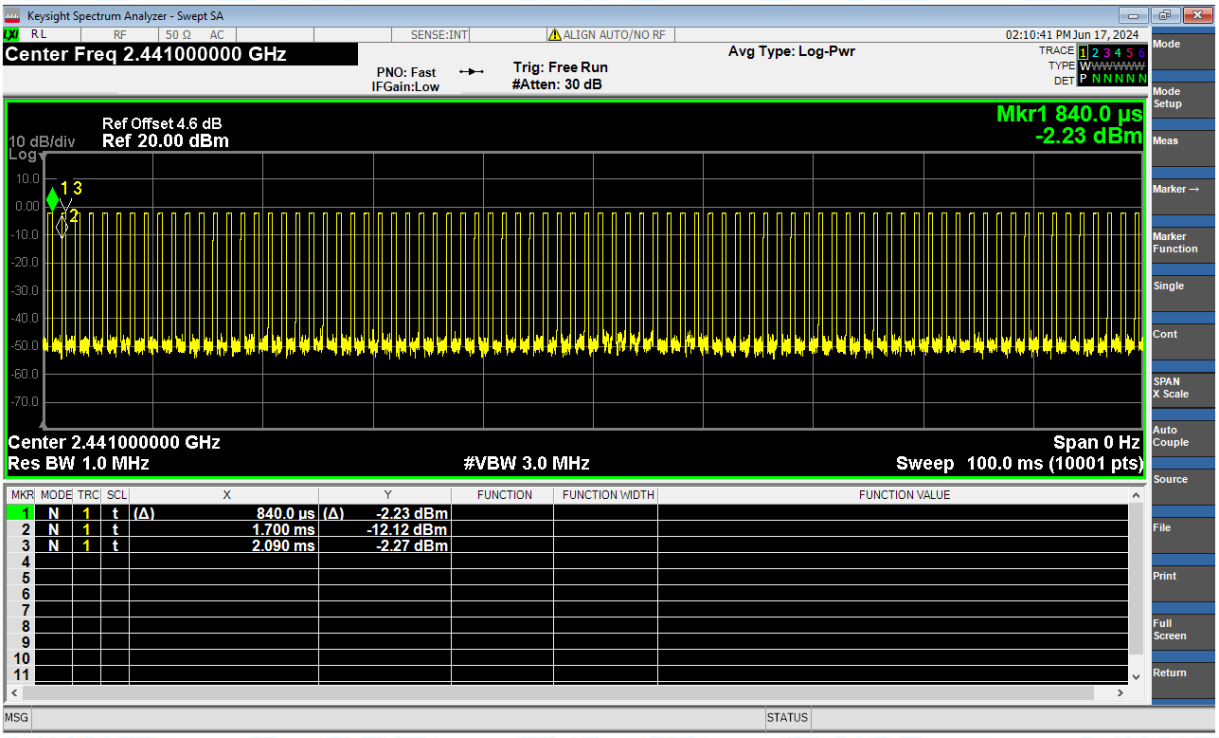
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32	4.95	2.5
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	32	4.95	2.5
NVNT	2-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	3-DH1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

Test Graphs

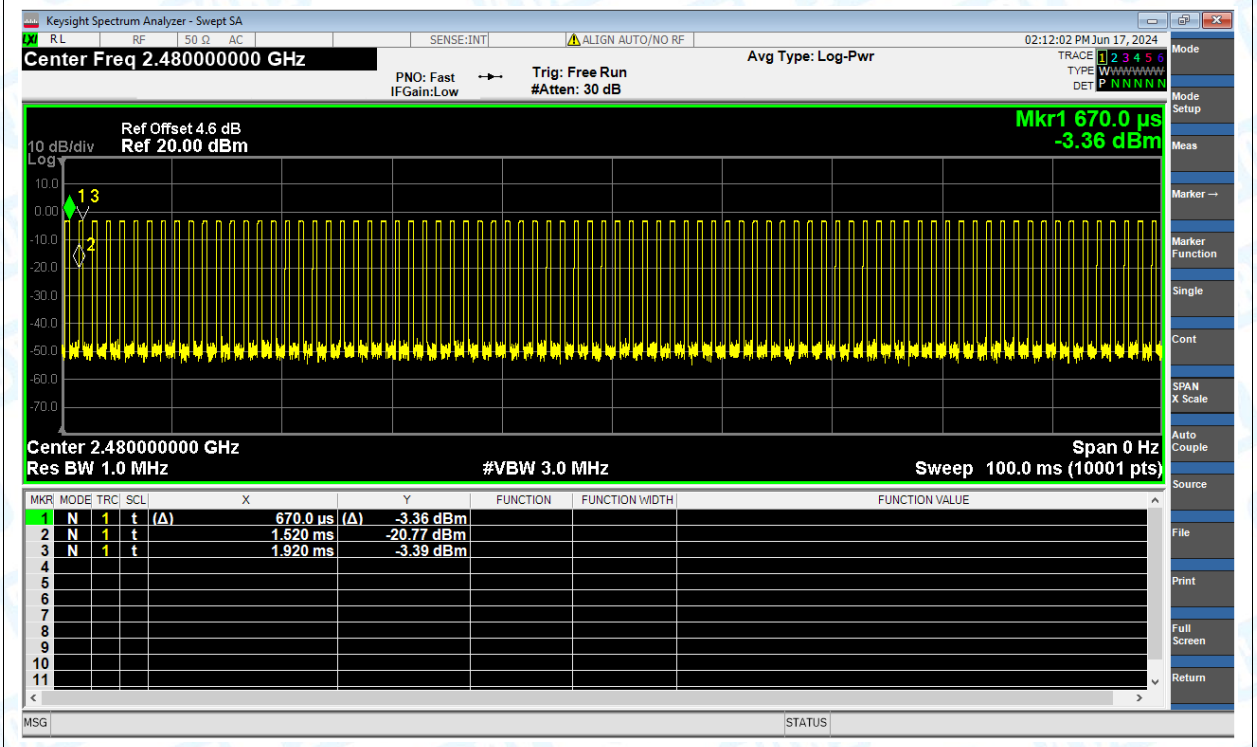
Duty Cycle NVNT 1-DH1 2402MHz Ant1



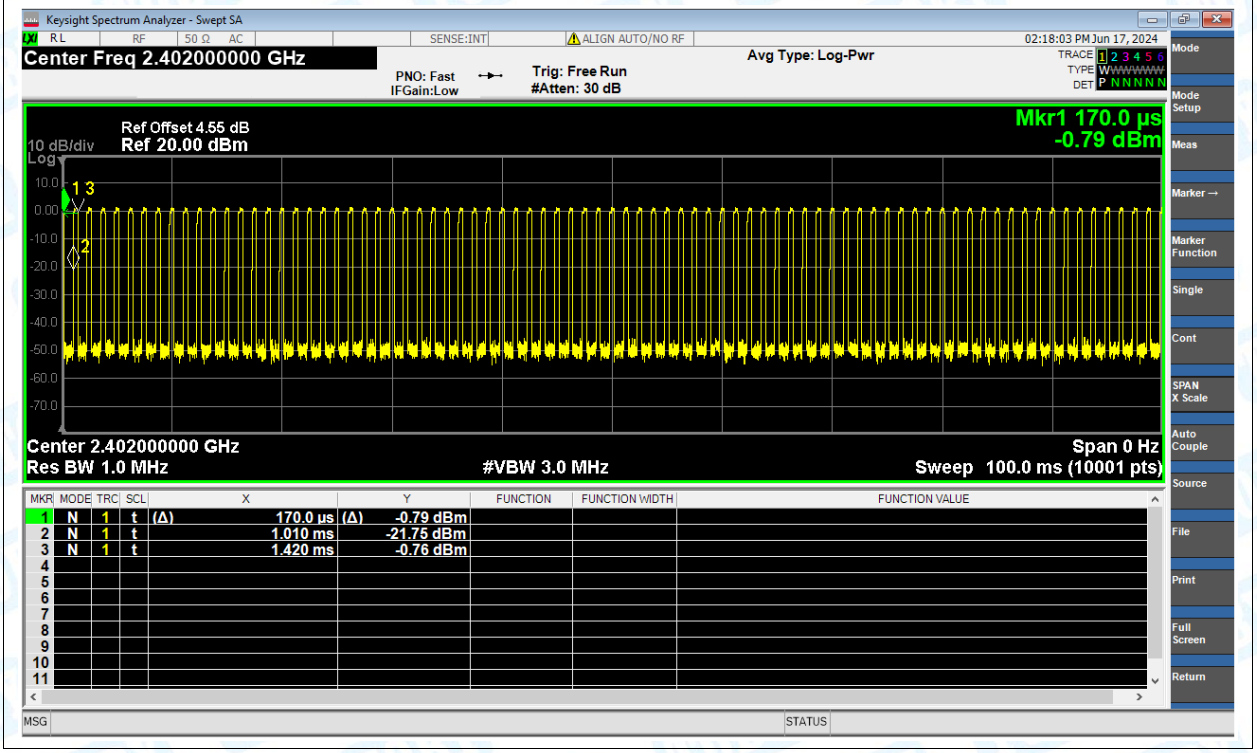
Duty Cycle NVNT 1-DH1 2441MHz Ant1



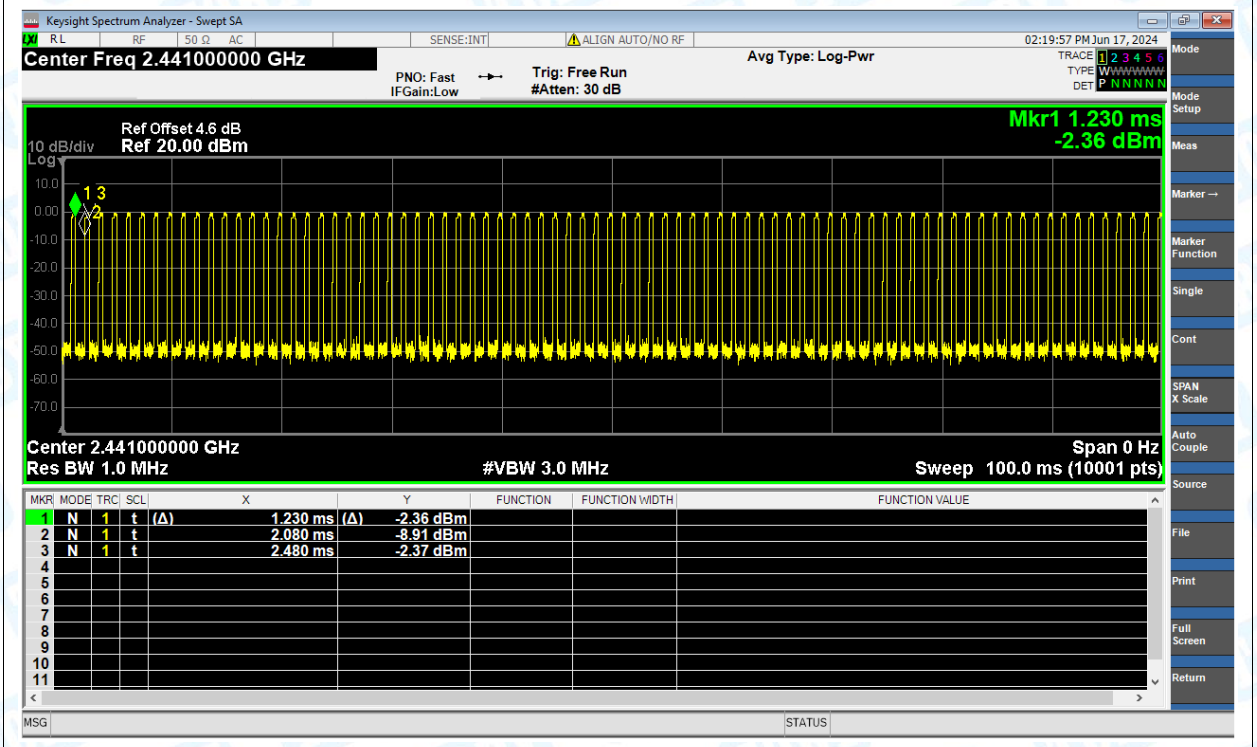
Duty Cycle NVNT 1-DH1 2480MHz Ant1



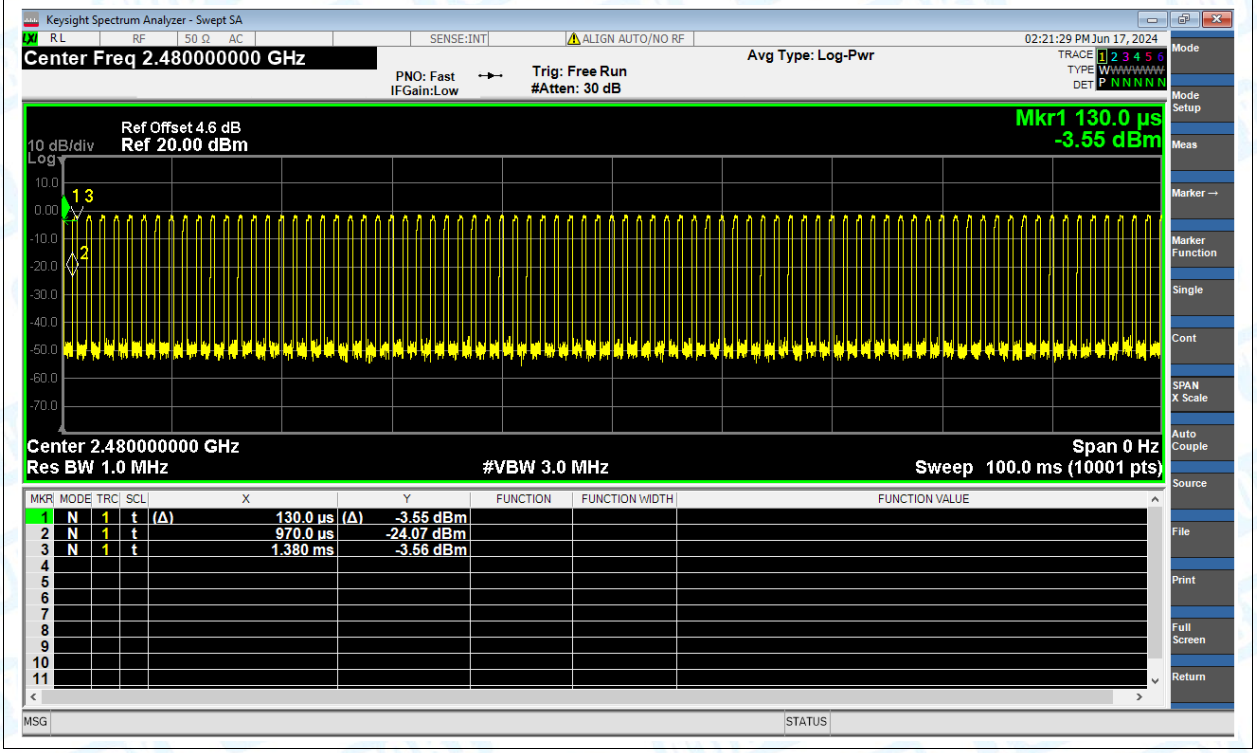
Duty Cycle NVNT 2-DH1 2402MHz Ant1



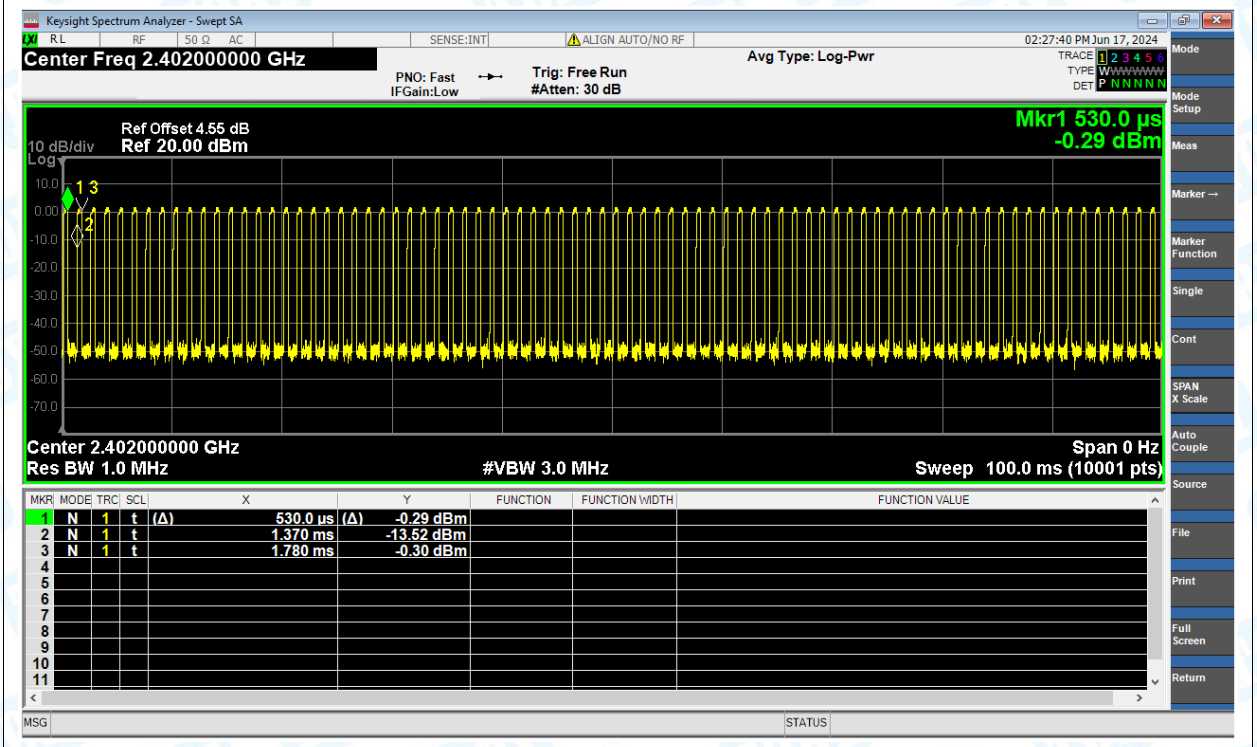
Duty Cycle NVNT 2-DH1 2441MHz Ant1



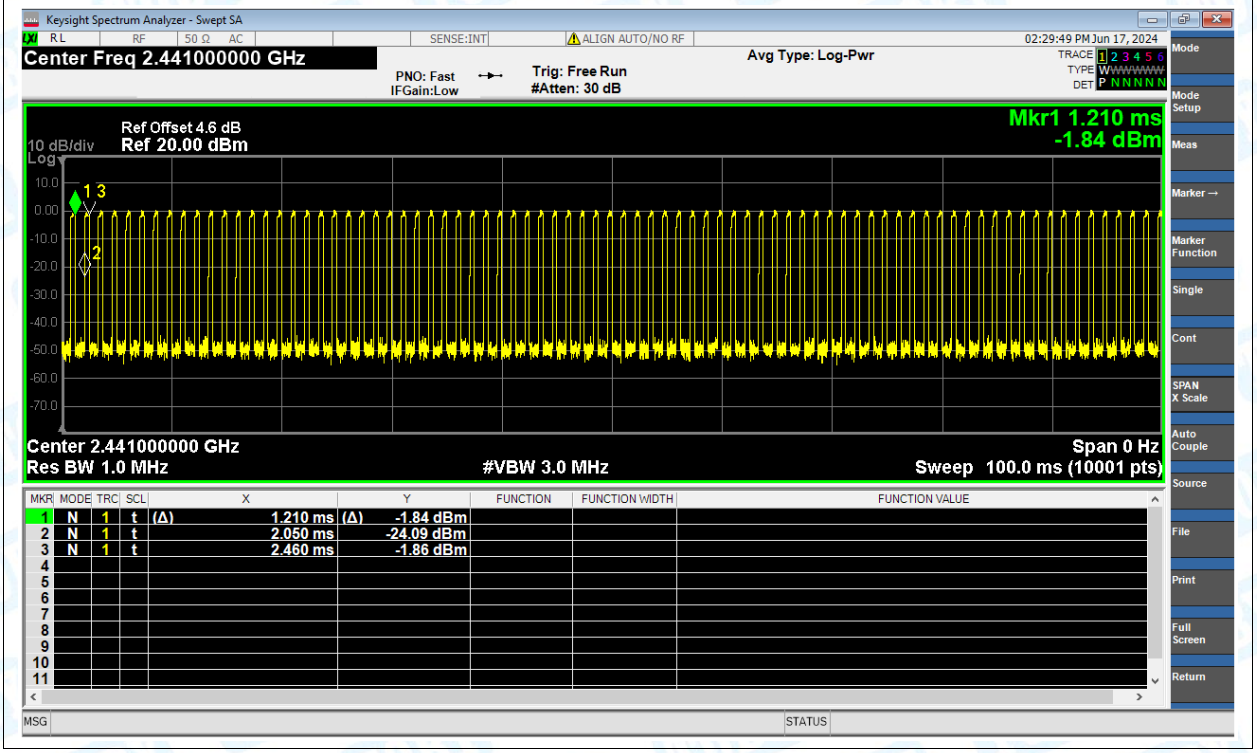
Duty Cycle NVNT 2-DH1 2480MHz Ant1



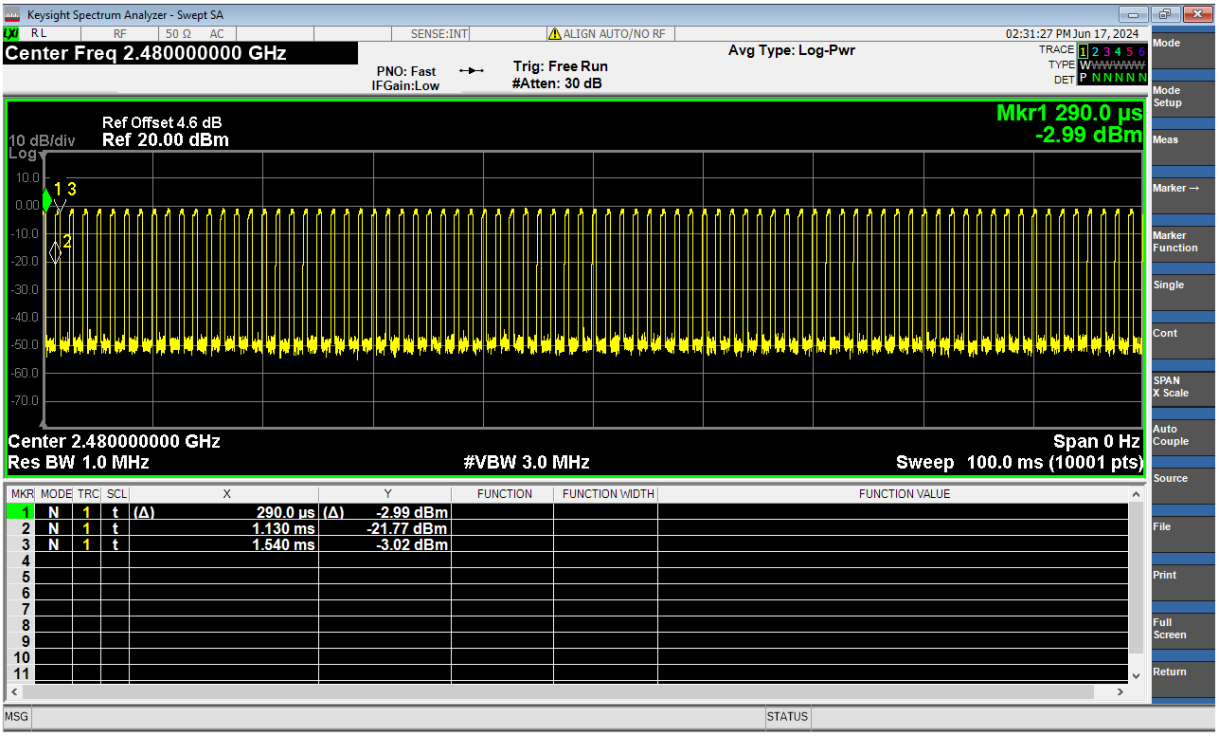
Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



Duty Cycle NVNT 3-DH1 2480MHz Ant1

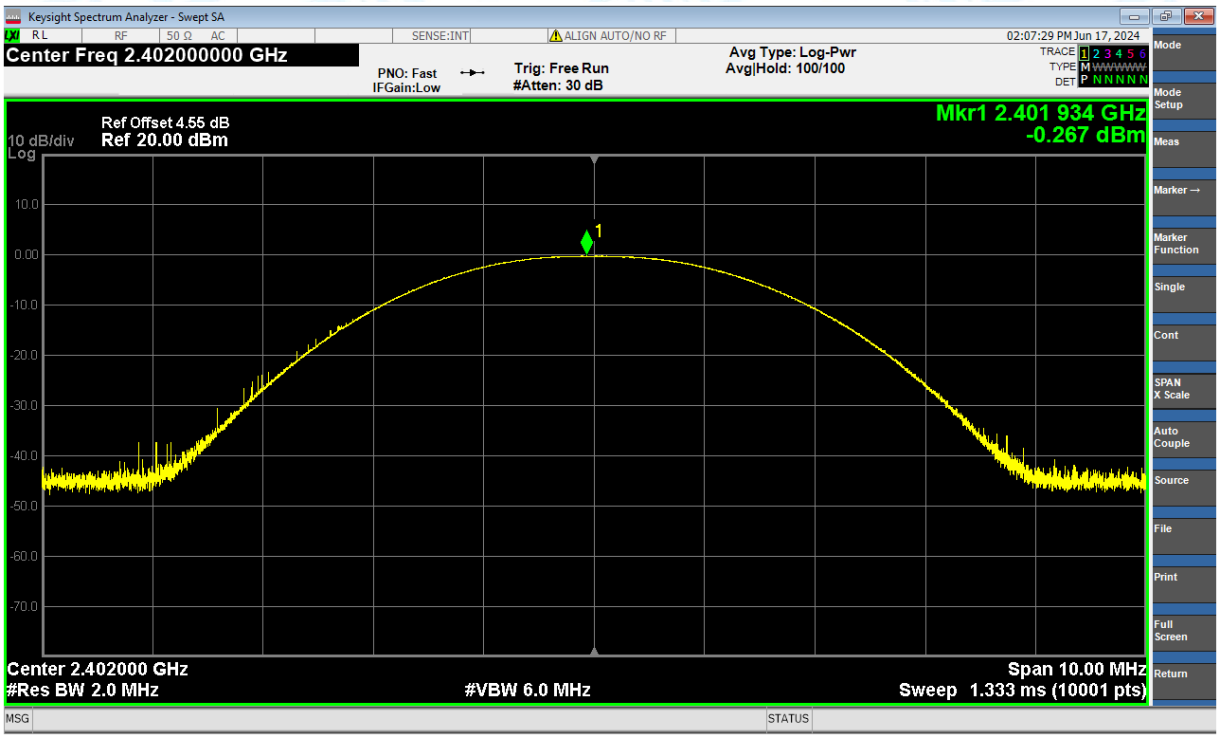


2. Maximum Conducted Output Power

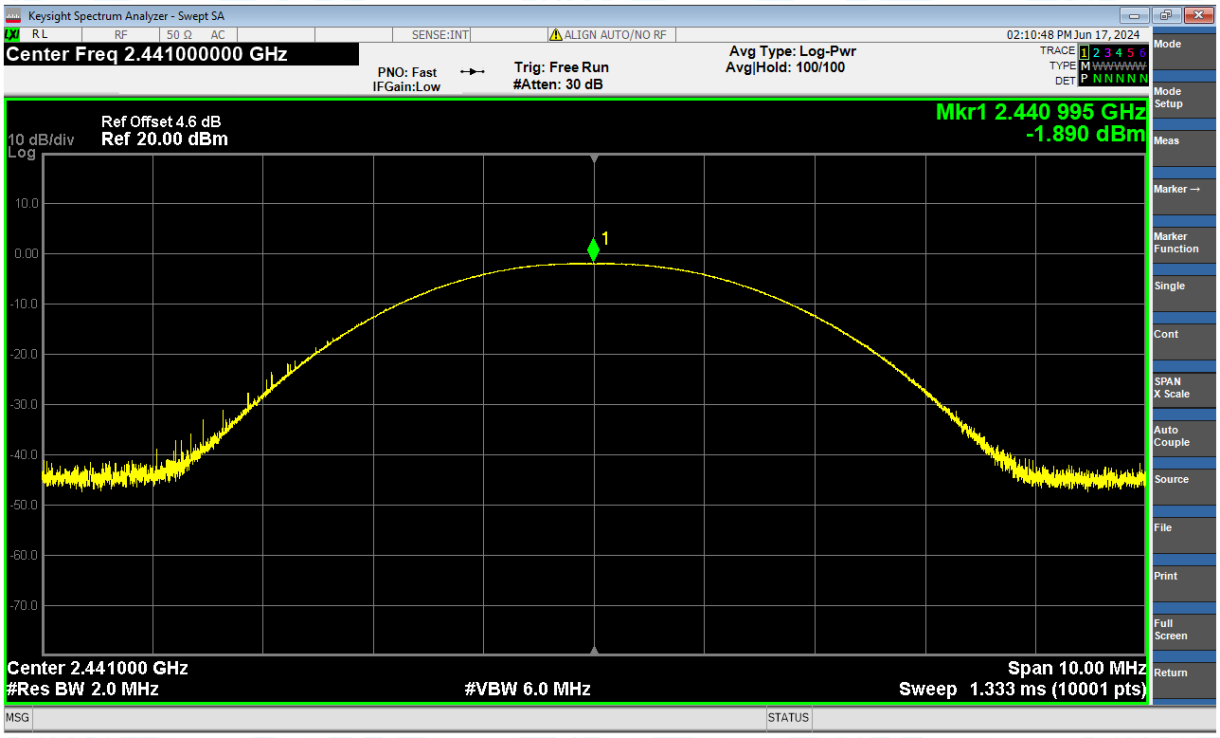
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	-0.267	21	Pass
NVNT	1-DH1	2441	Ant1	-1.89	21	Pass
NVNT	1-DH1	2480	Ant1	-3.05	21	Pass
NVNT	1-DH3	2441	Ant1	-1.824	21	Pass
NVNT	1-DH5	2441	Ant1	-1.843	21	Pass
NVNT	2-DH1	2402	Ant1	1.911	21	Pass
NVNT	2-DH1	2441	Ant1	0.343	21	Pass
NVNT	2-DH1	2480	Ant1	-0.838	21	Pass
NVNT	2-DH3	2441	Ant1	0.368	21	Pass
NVNT	2-DH5	2441	Ant1	0.409	21	Pass
NVNT	3-DH1	2402	Ant1	2.314	21	Pass
NVNT	3-DH1	2441	Ant1	0.74	21	Pass
NVNT	3-DH1	2480	Ant1	-0.361	21	Pass
NVNT	3-DH3	2441	Ant1	0.765	21	Pass
NVNT	3-DH5	2441	Ant1	0.83	21	Pass

Test Graphs

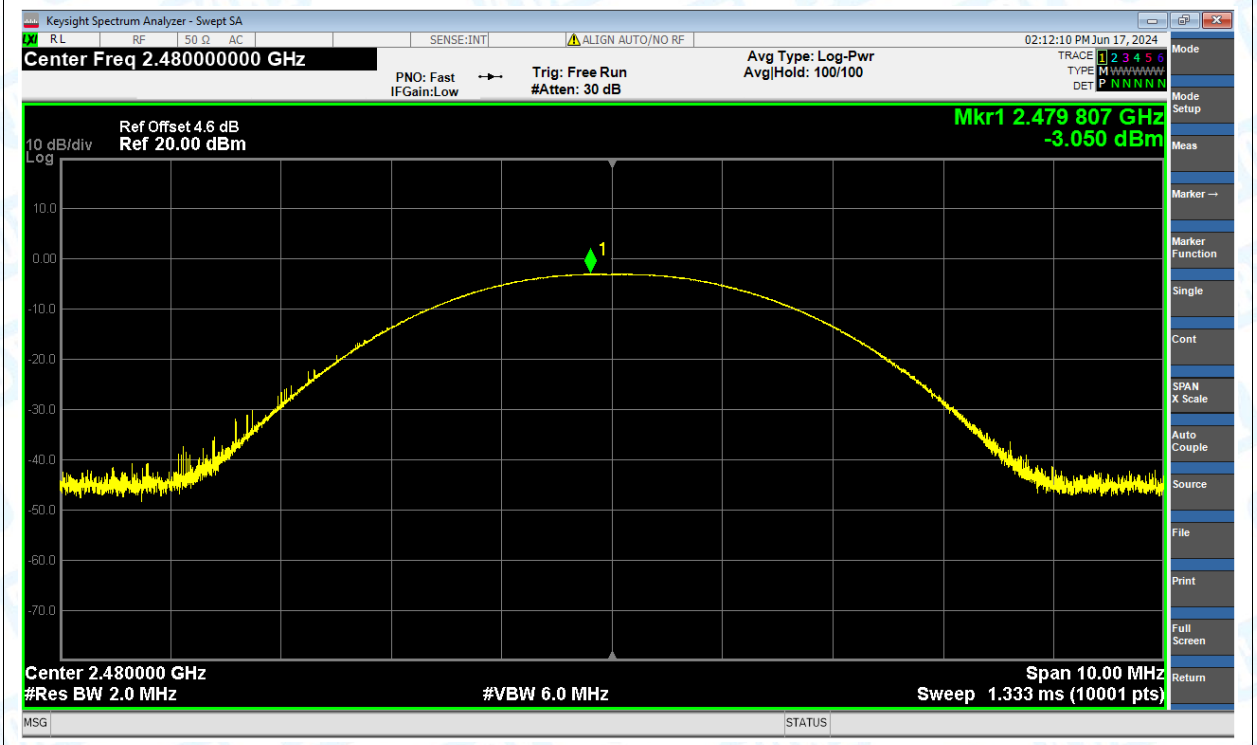
Power NVNT 1-DH1 2402MHz Ant1



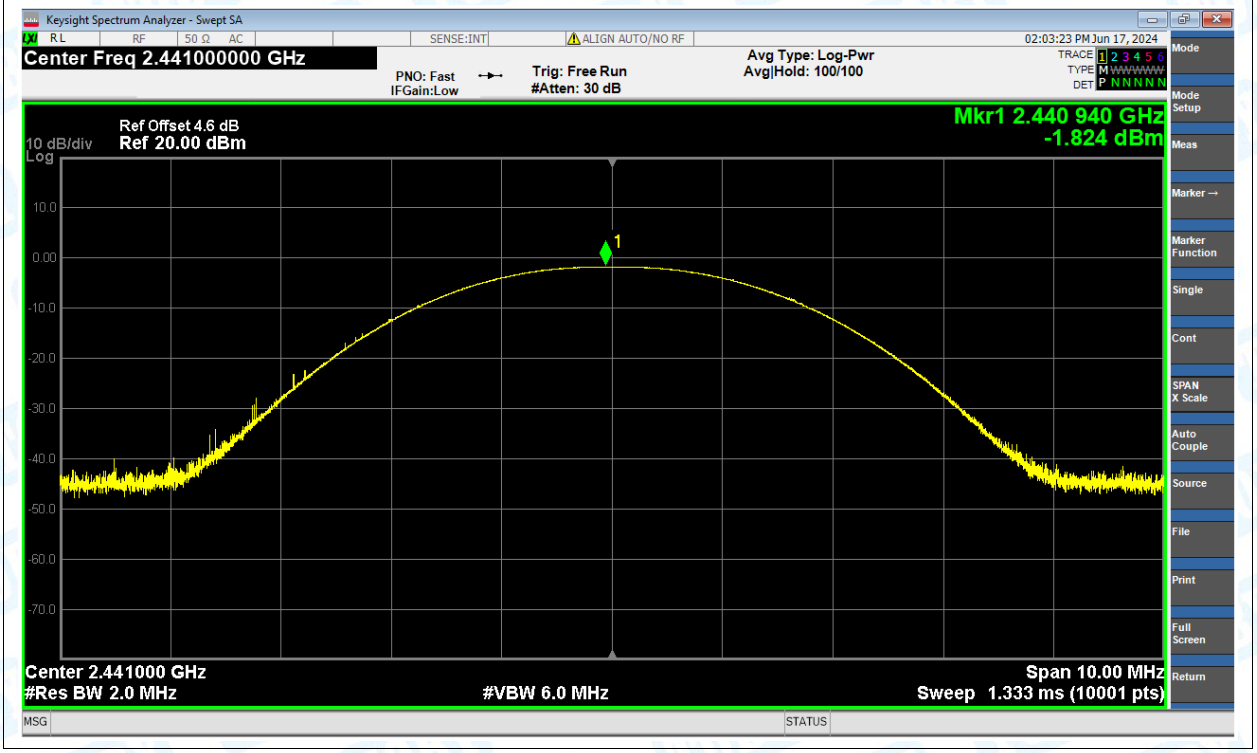
Power NVNT 1-DH1 2441MHz Ant1



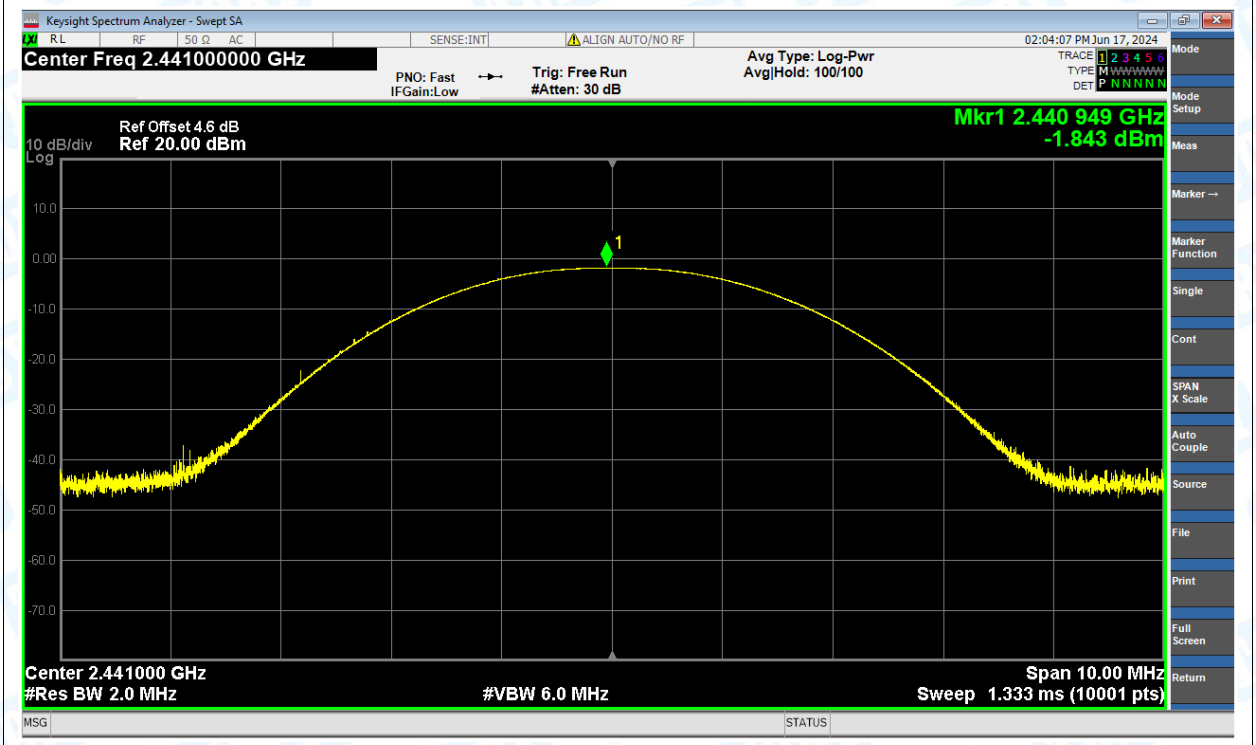
Power NVNT 1-DH1 2480MHz Ant1



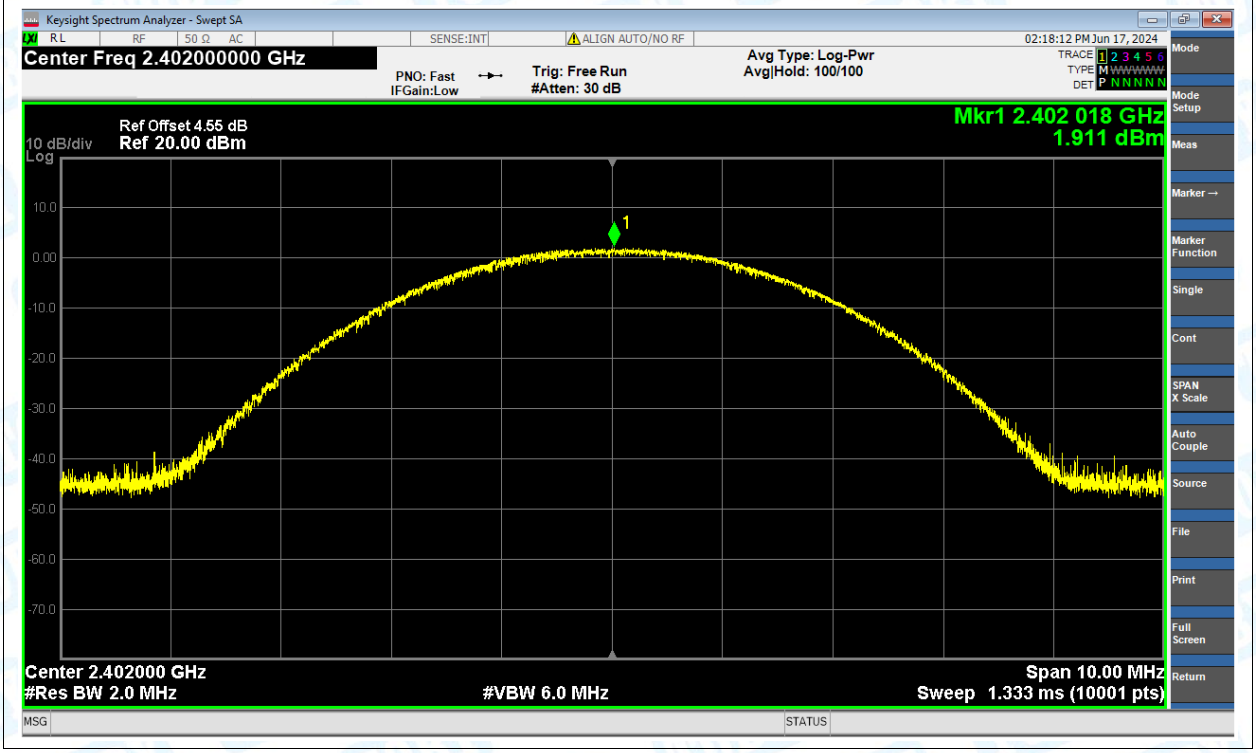
Power NVNT 1-DH3 2441MHz Ant1



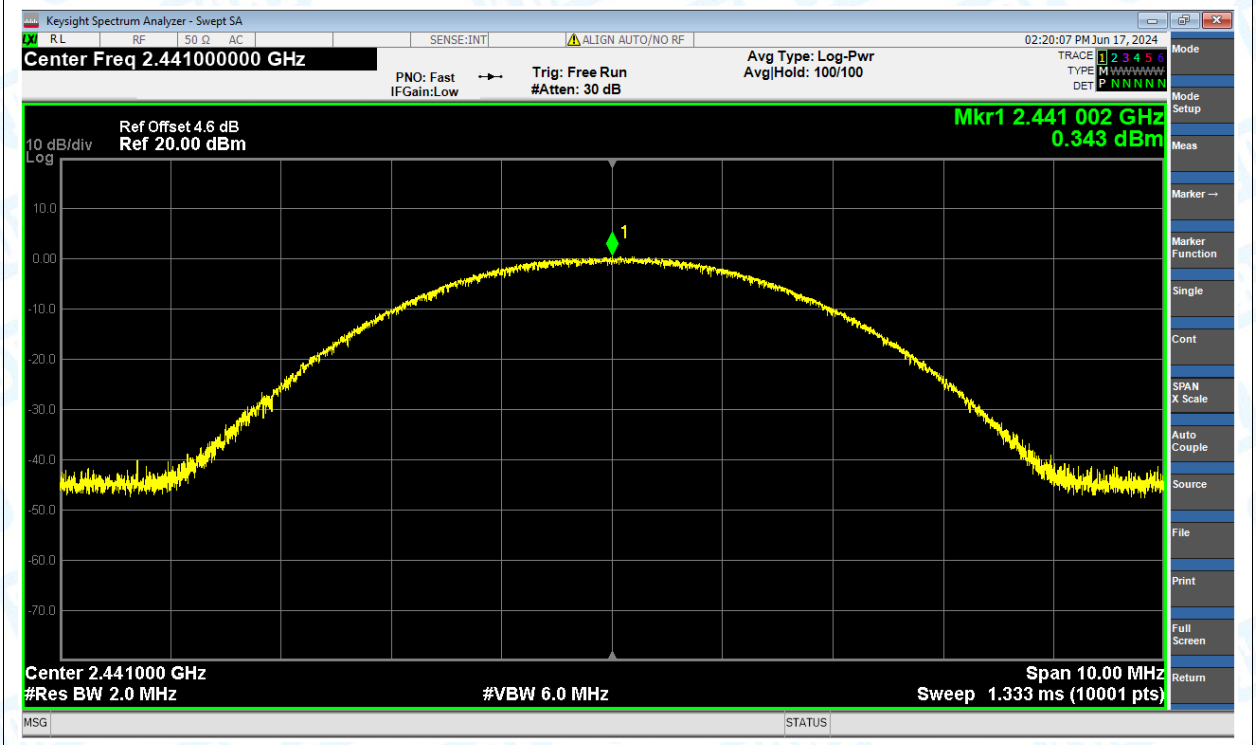
Power NVNT 1-DH5 2441MHz Ant1



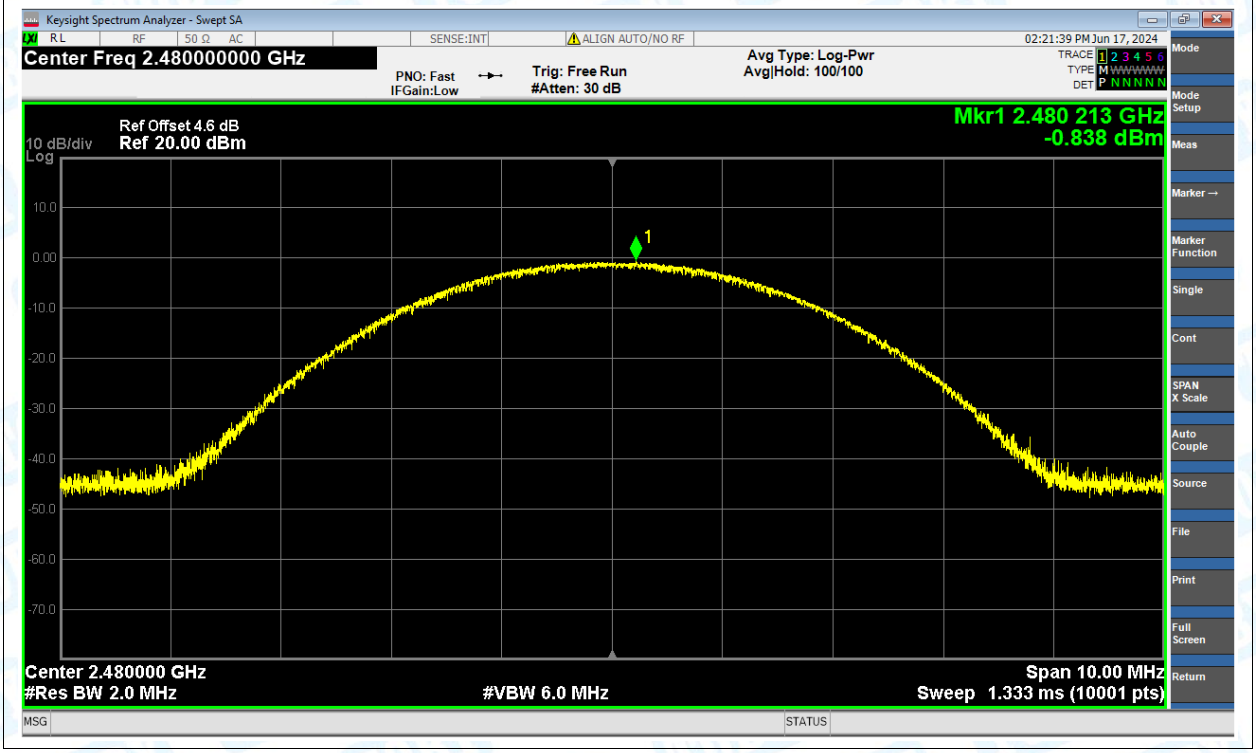
Power NVNT 2-DH1 2402MHz Ant1



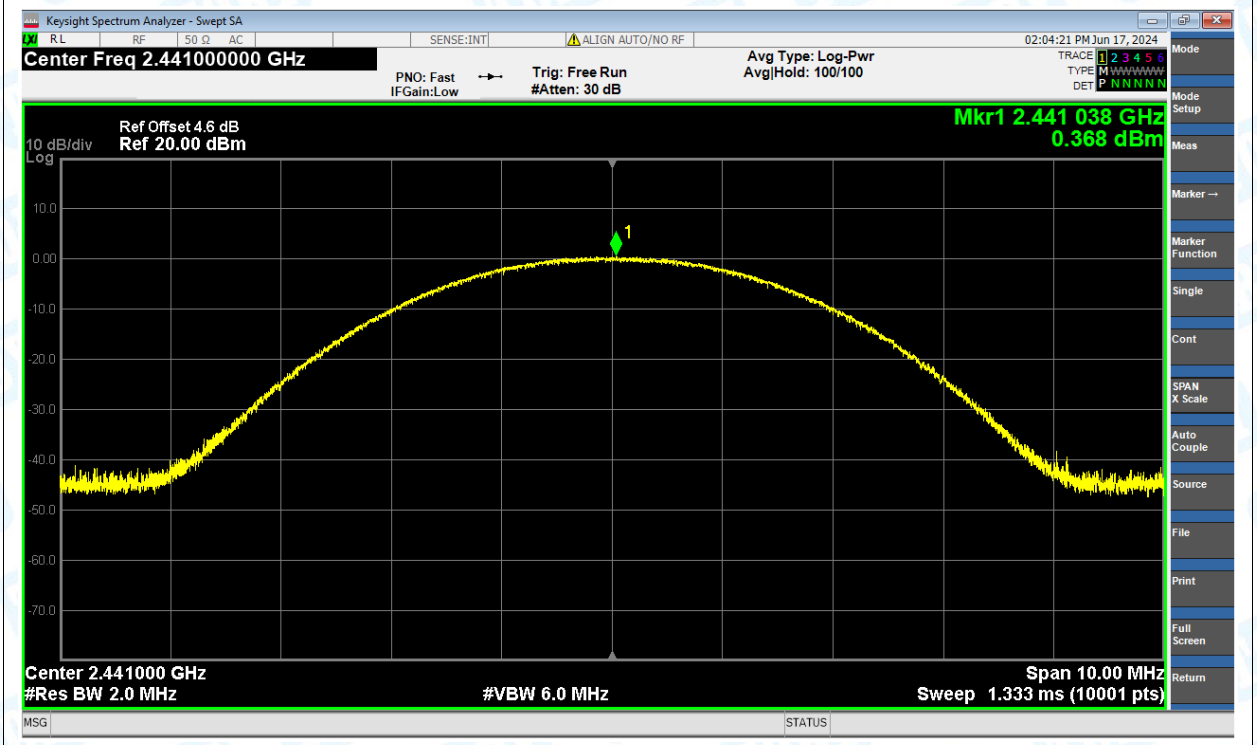
Power NVNT 2-DH1 2441MHz Ant1



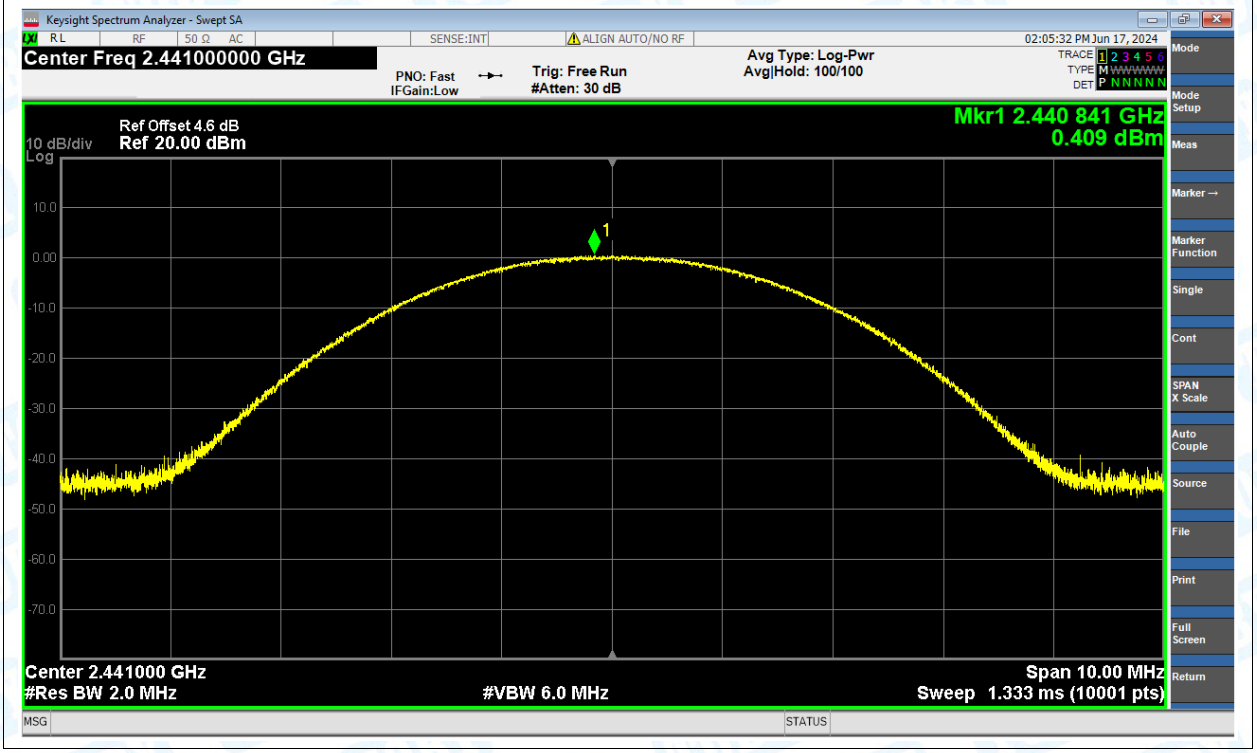
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1

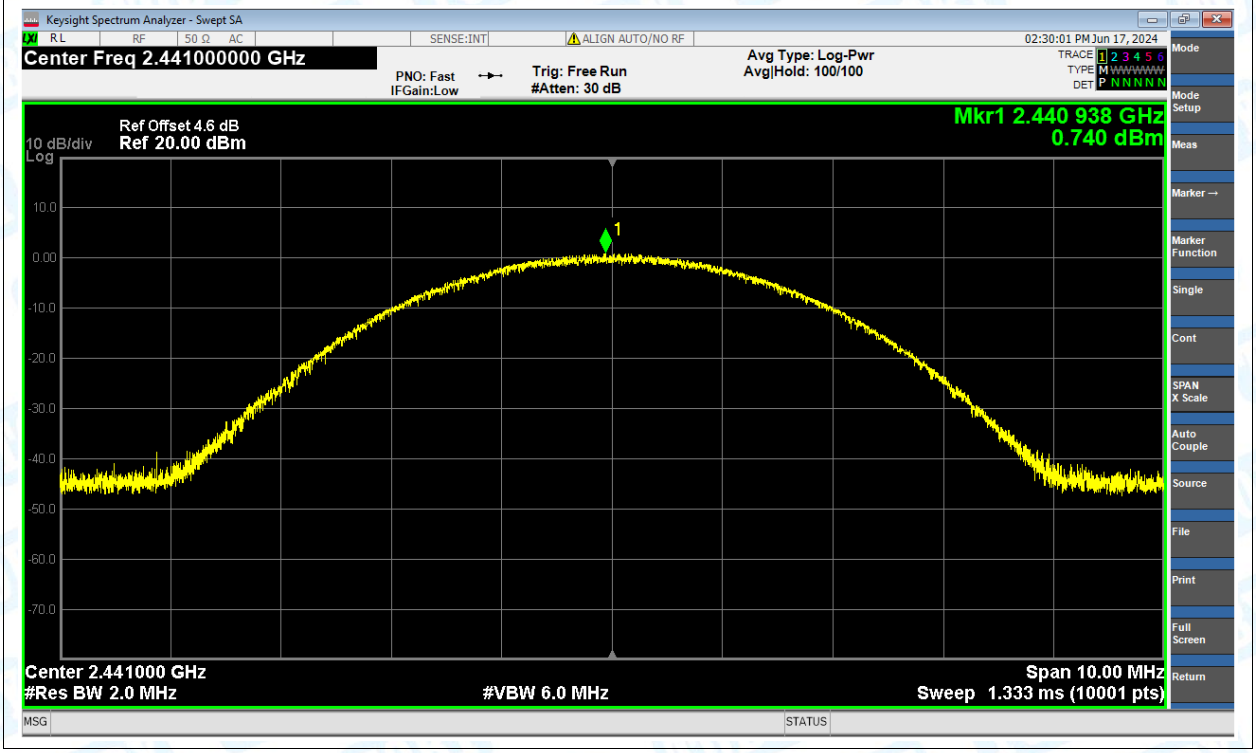


Power NVNT 2-DH5 2441MHz Ant1

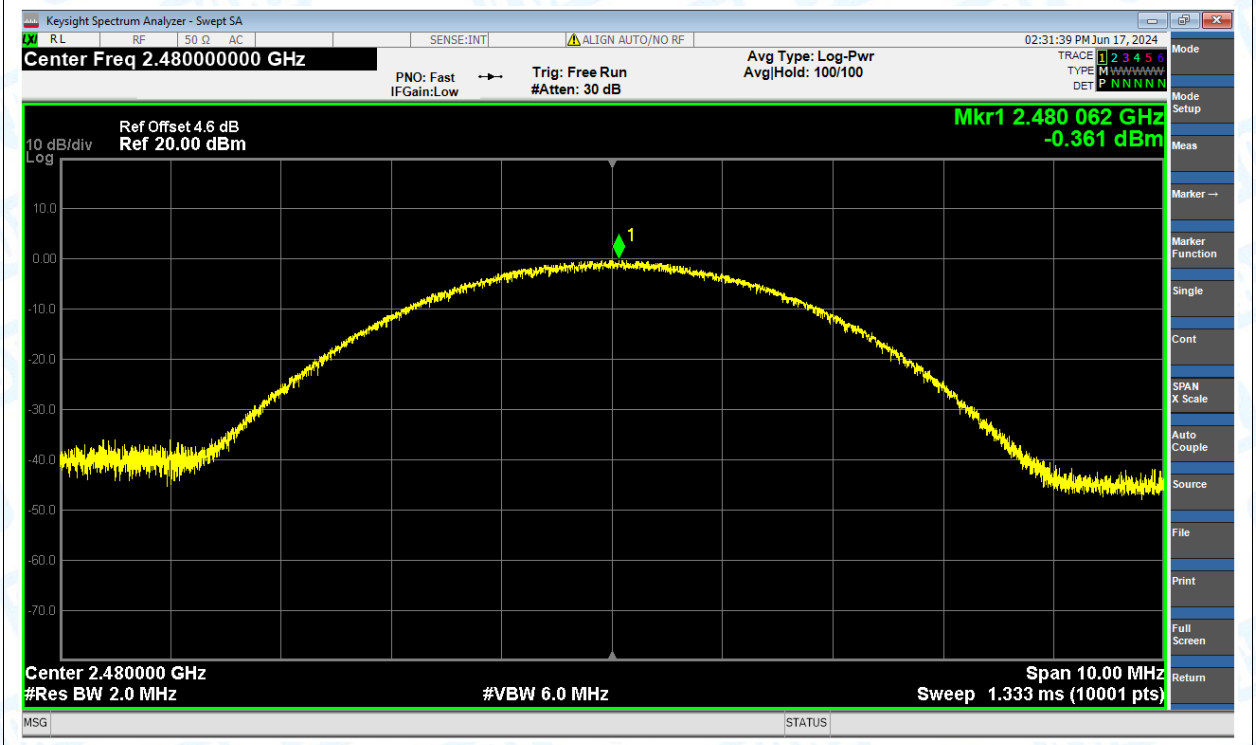


Power NVNT 3-DH1 2402MHz Ant1

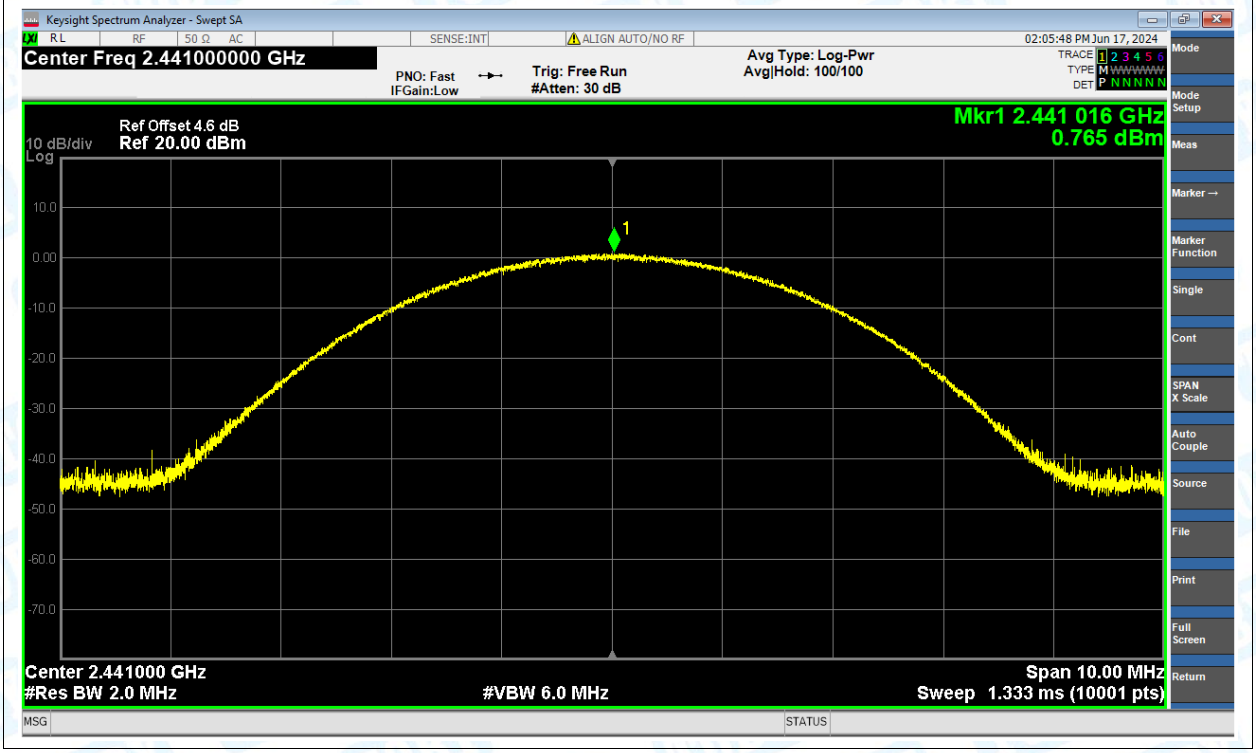
Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

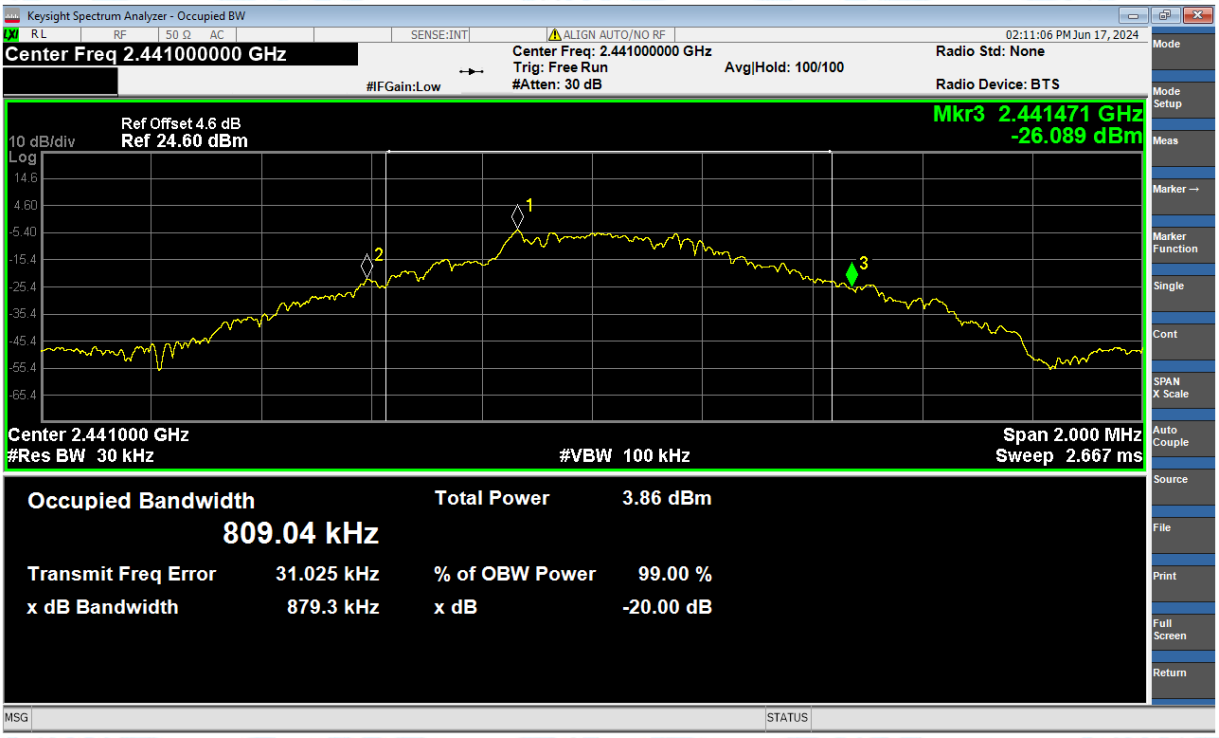
3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.93	0	Pass
NVNT	1-DH1	2441	Ant1	0.88	0	Pass
NVNT	1-DH1	2480	Ant1	0.93	0	Pass
NVNT	2-DH1	2402	Ant1	1.26	0	Pass
NVNT	2-DH1	2441	Ant1	1.28	0	Pass
NVNT	2-DH1	2480	Ant1	1.3	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	1.22	0	Pass

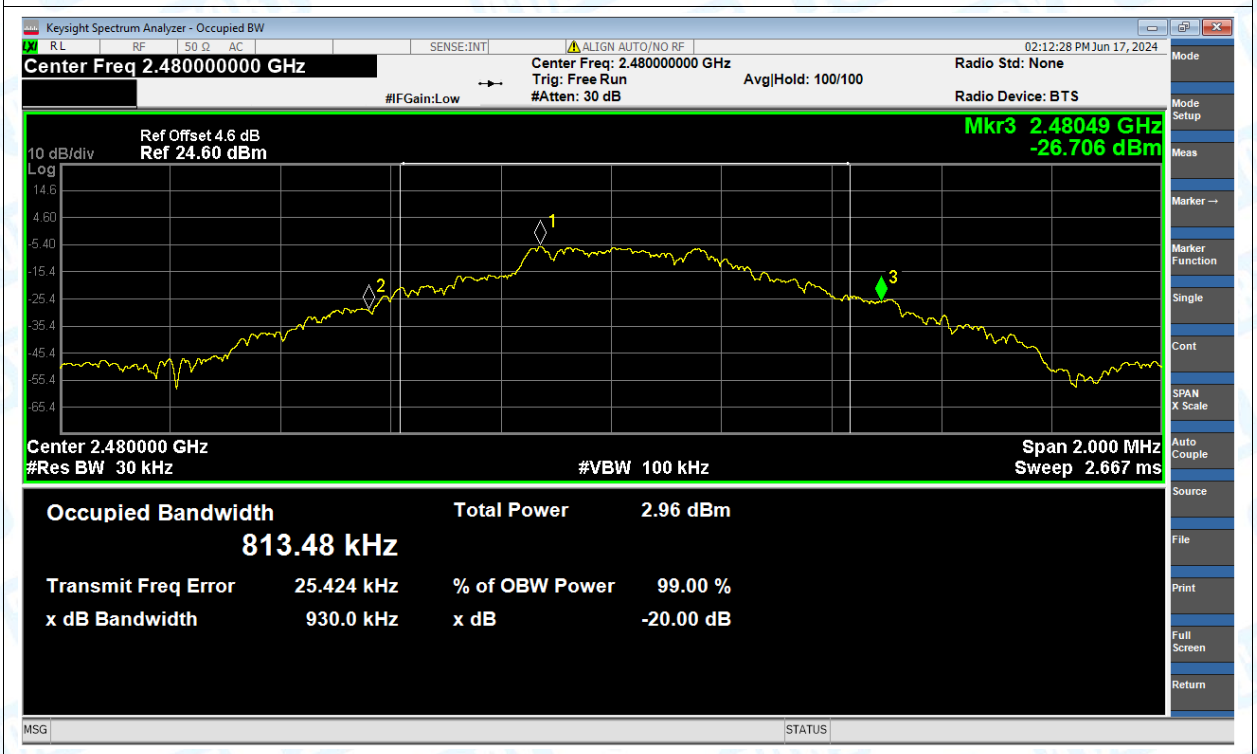
Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

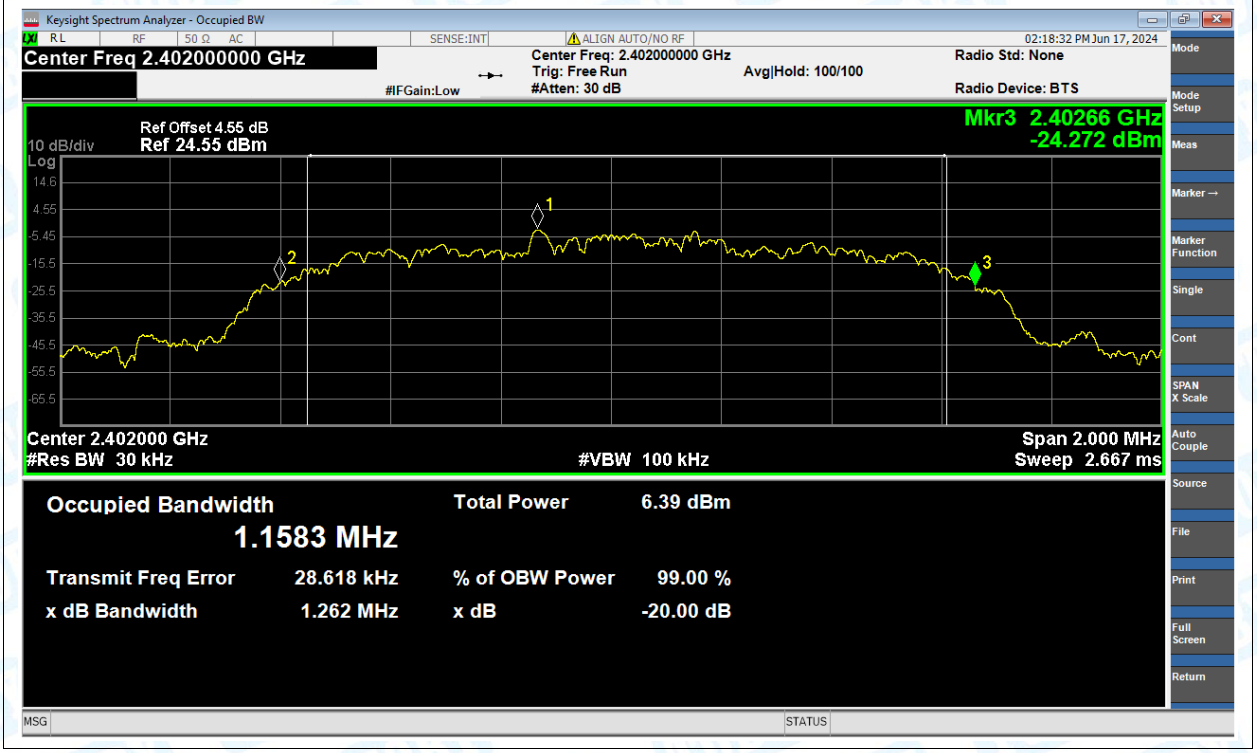
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



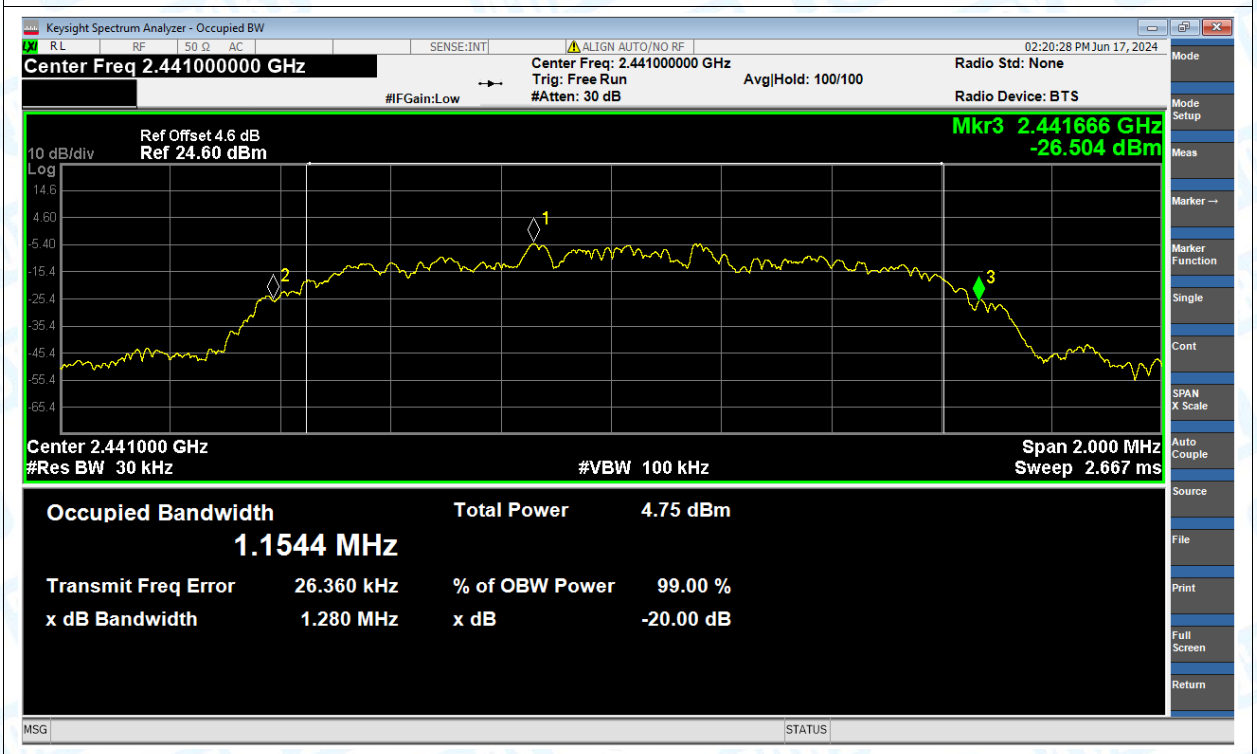
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



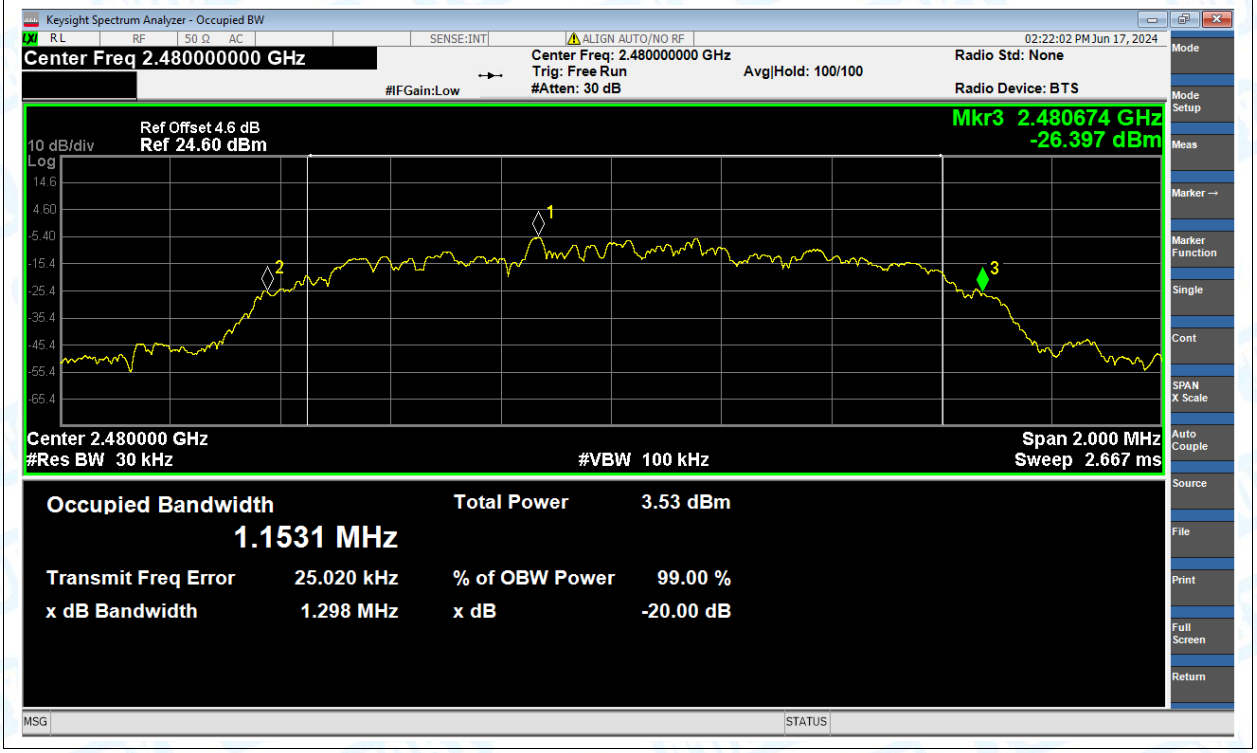
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



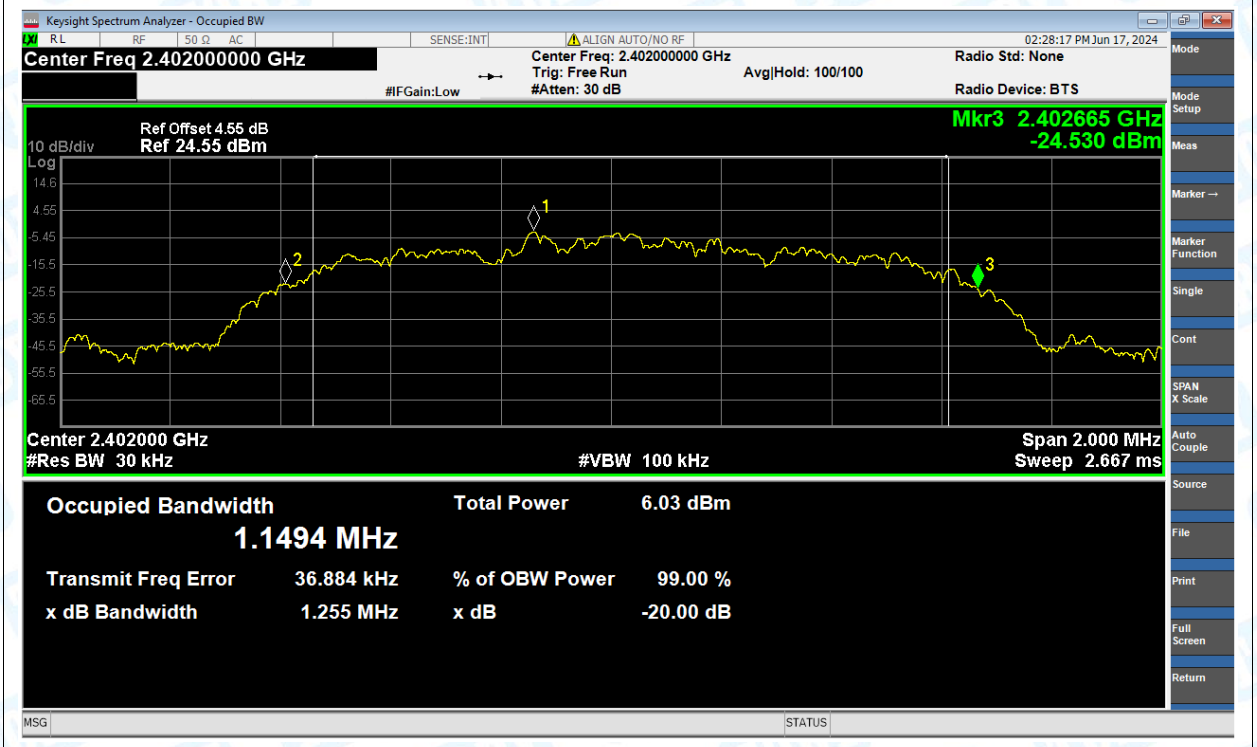
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



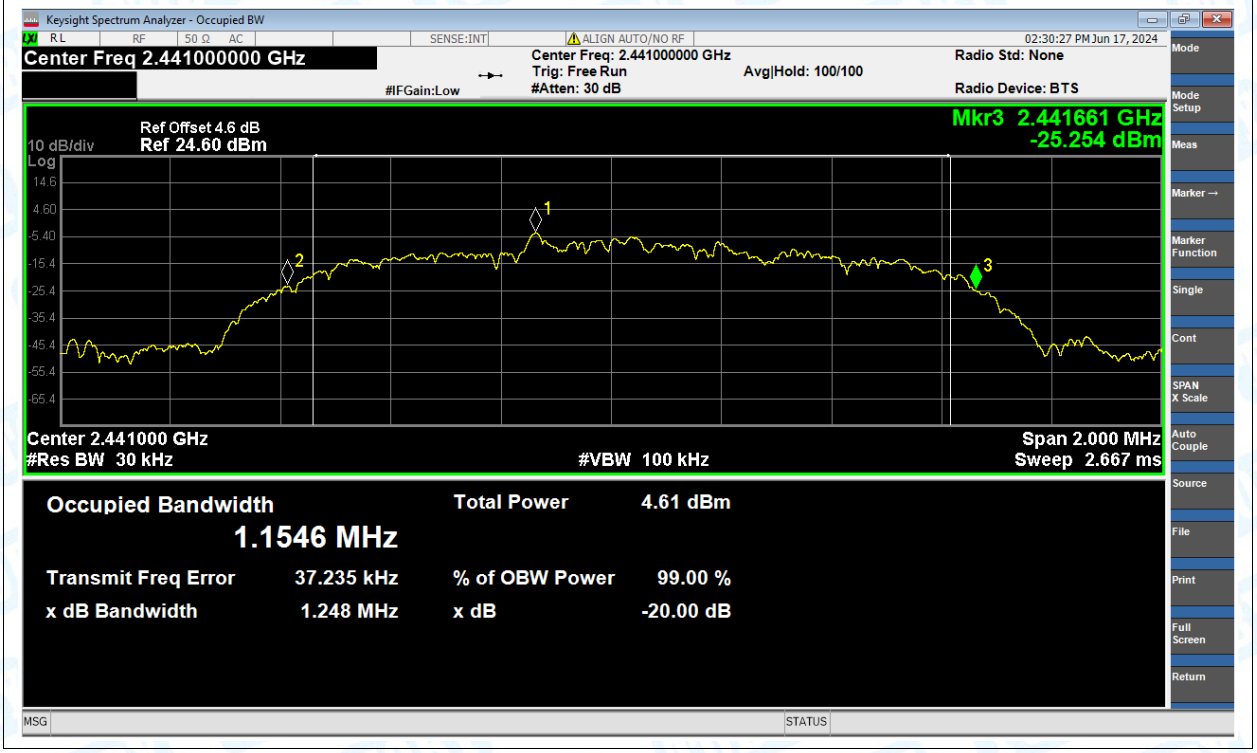
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



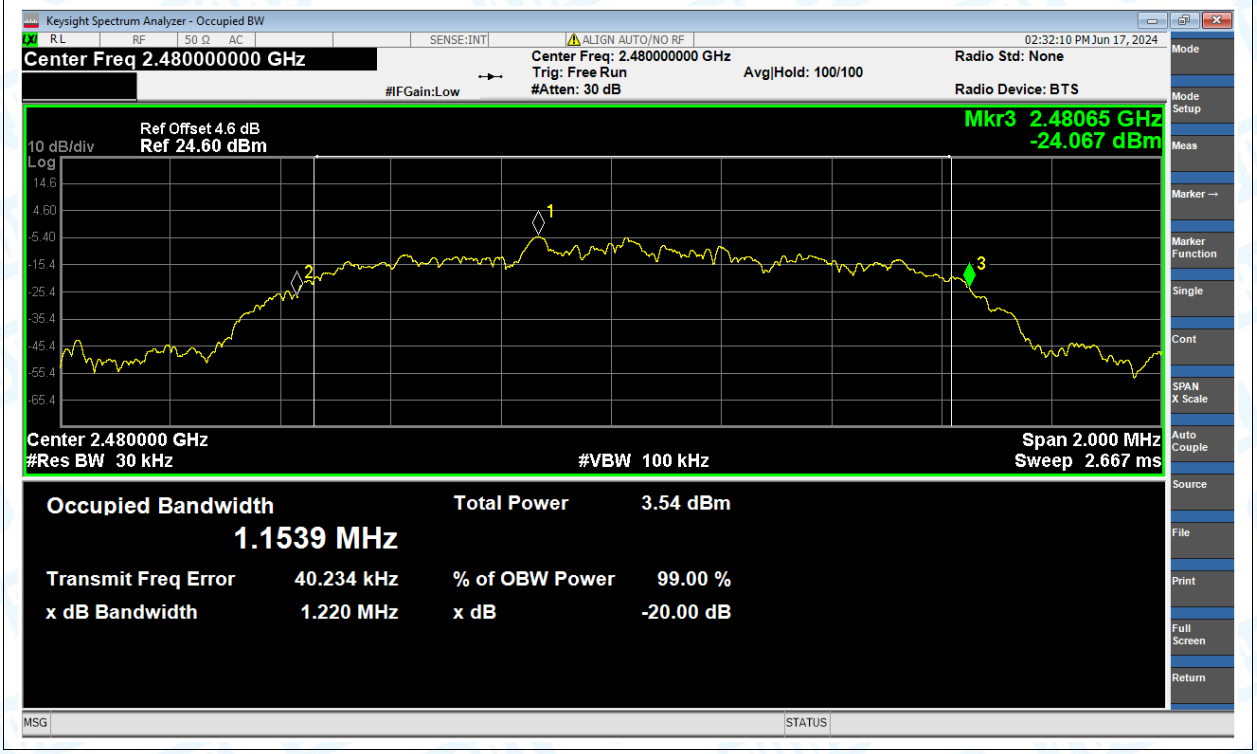
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

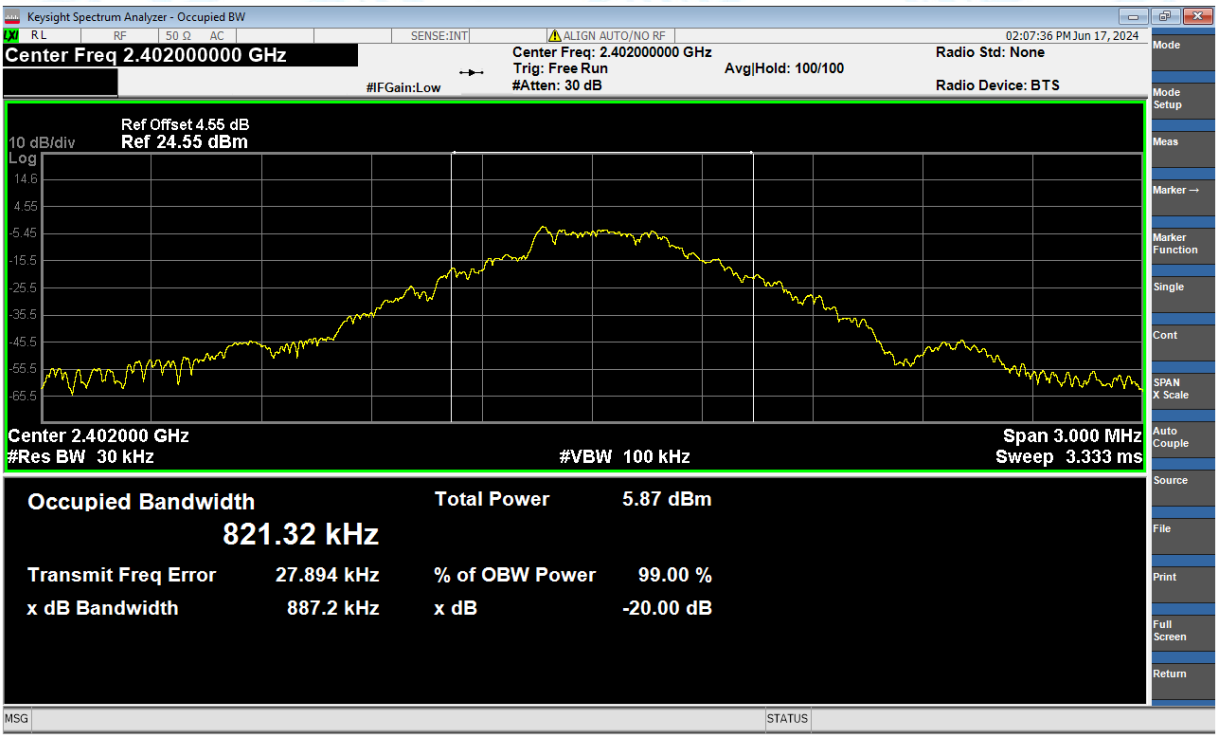


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.821
NVNT	1-DH1	2441	Ant1	0.809
NVNT	1-DH1	2480	Ant1	0.816
NVNT	2-DH1	2402	Ant1	1.171
NVNT	2-DH1	2441	Ant1	1.155
NVNT	2-DH1	2480	Ant1	1.178
NVNT	3-DH1	2402	Ant1	1.129
NVNT	3-DH1	2441	Ant1	1.156
NVNT	3-DH1	2480	Ant1	1.158

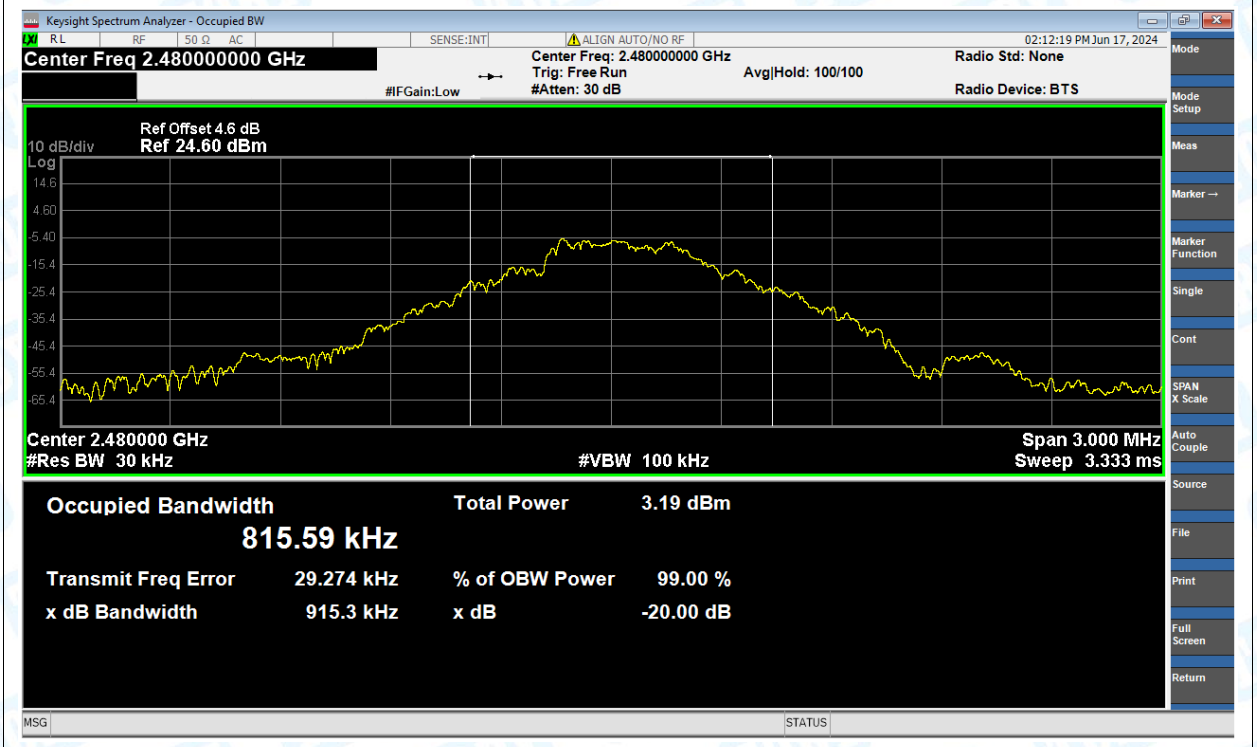
Test Graphs

OBW NVNT 1-DH1 2402MHz Ant1

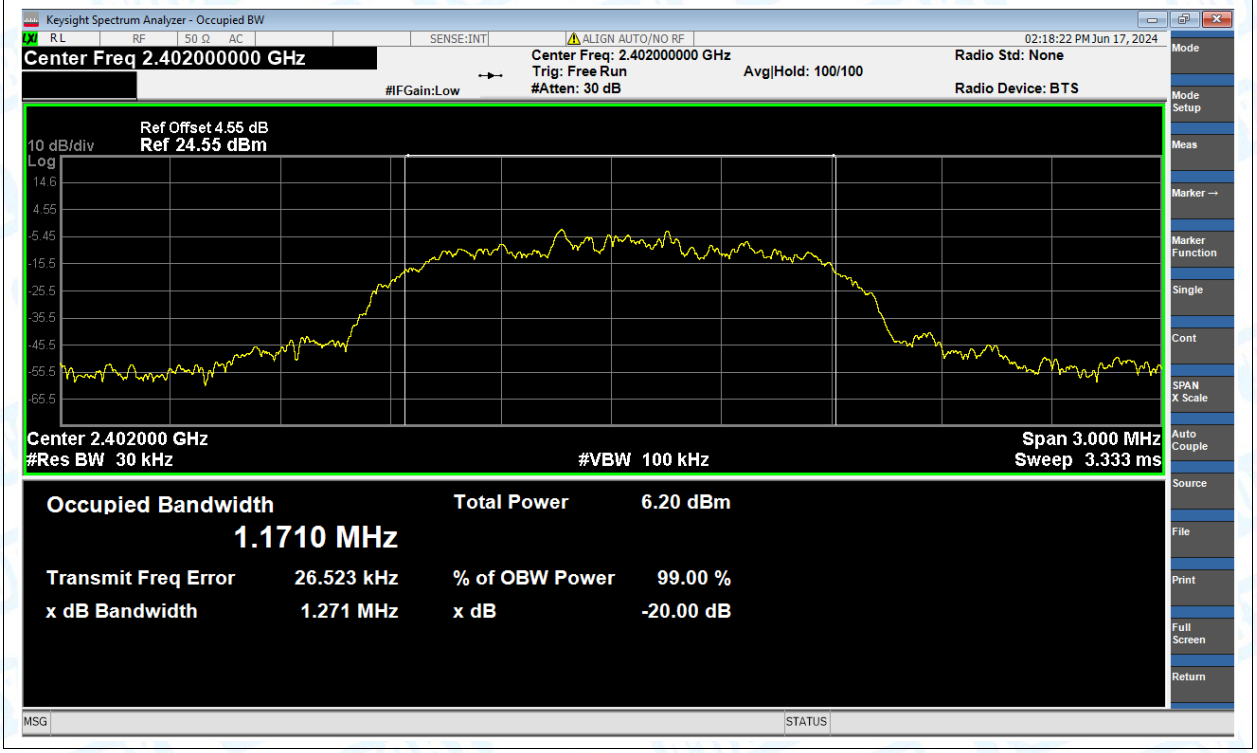


OBW NVNT 1-DH1 2441MHz Ant1

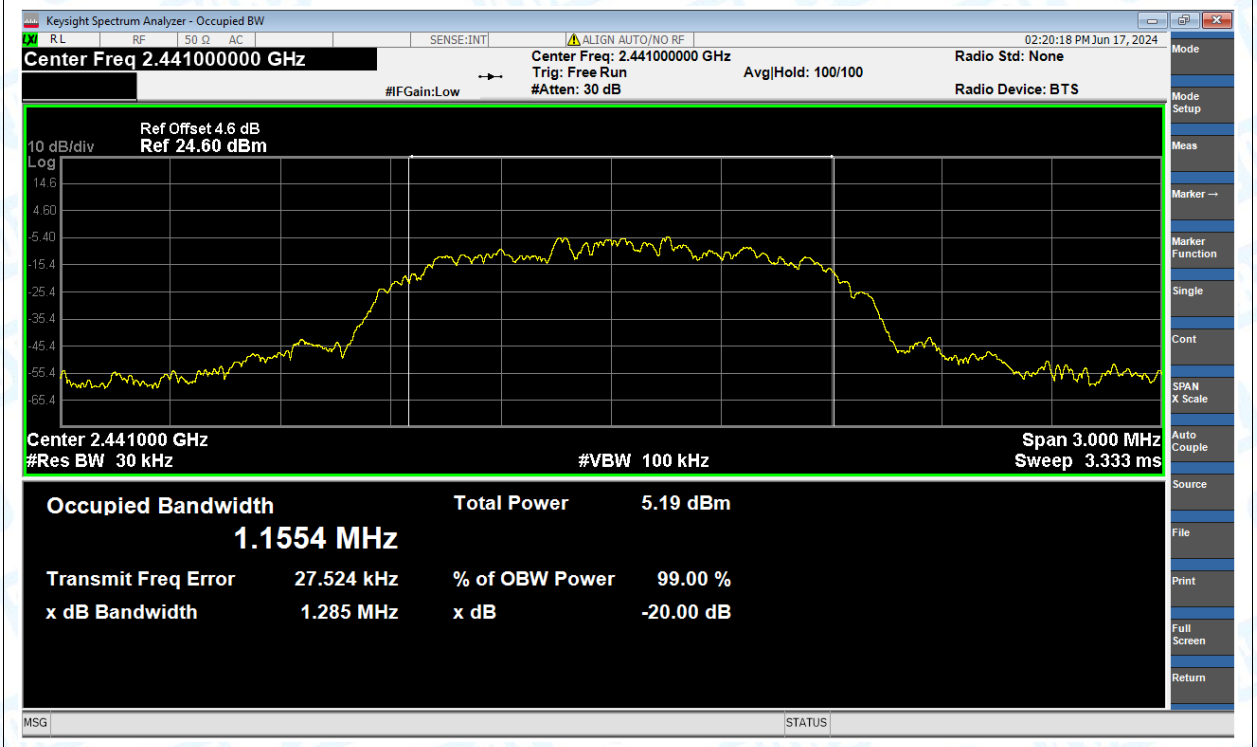
OBW NVNT 1-DH1 2480MHz Ant1



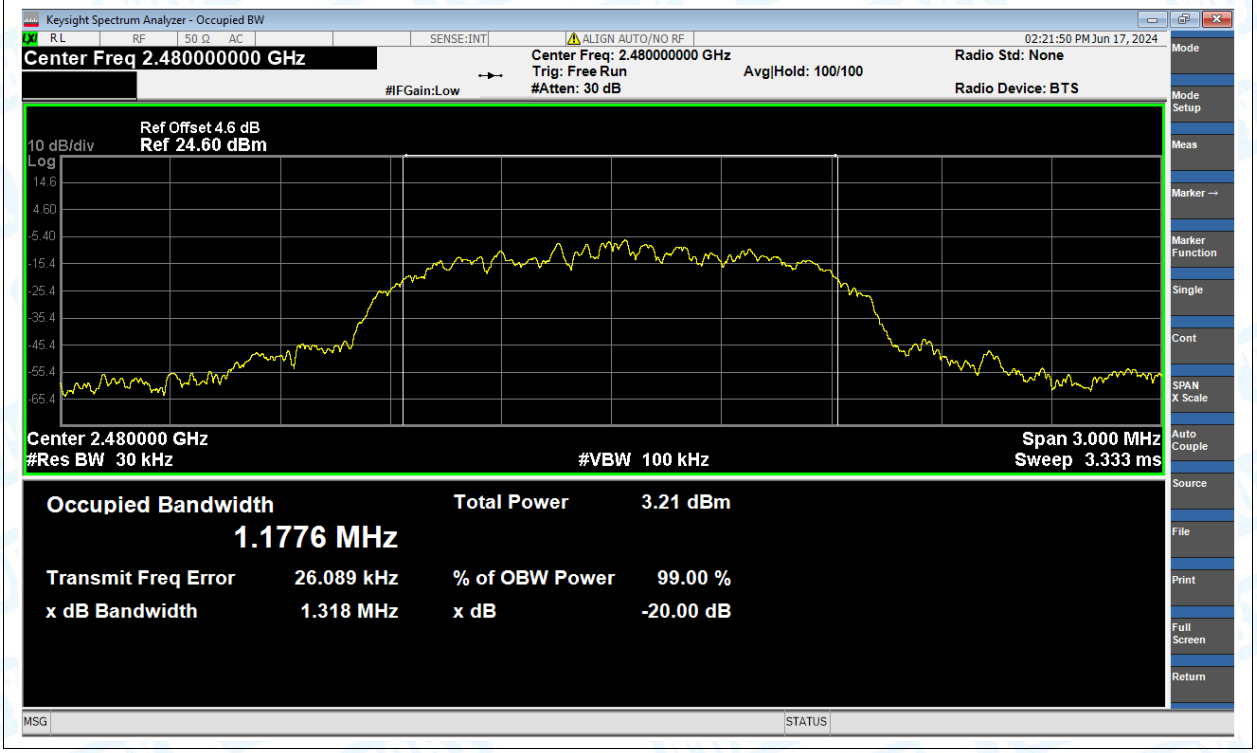
OBW NVNT 2-DH1 2402MHz Ant1



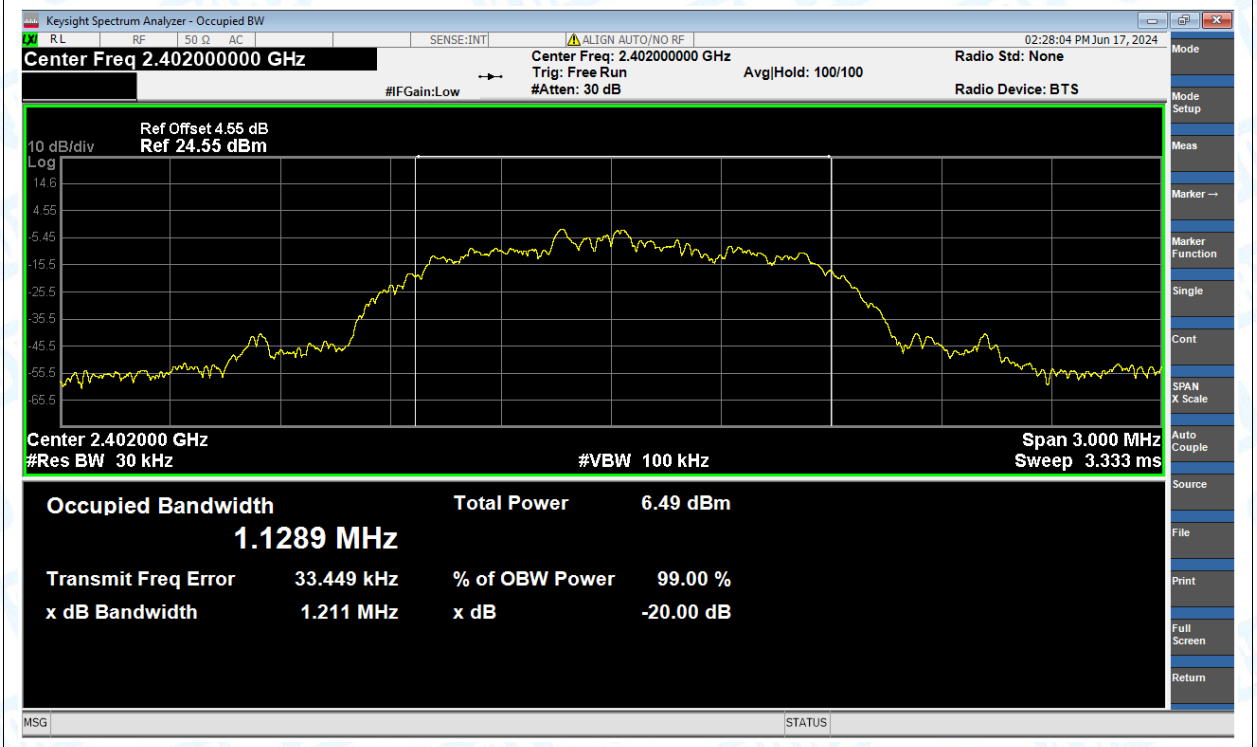
OBW NVNT 2-DH1 2441MHz Ant1



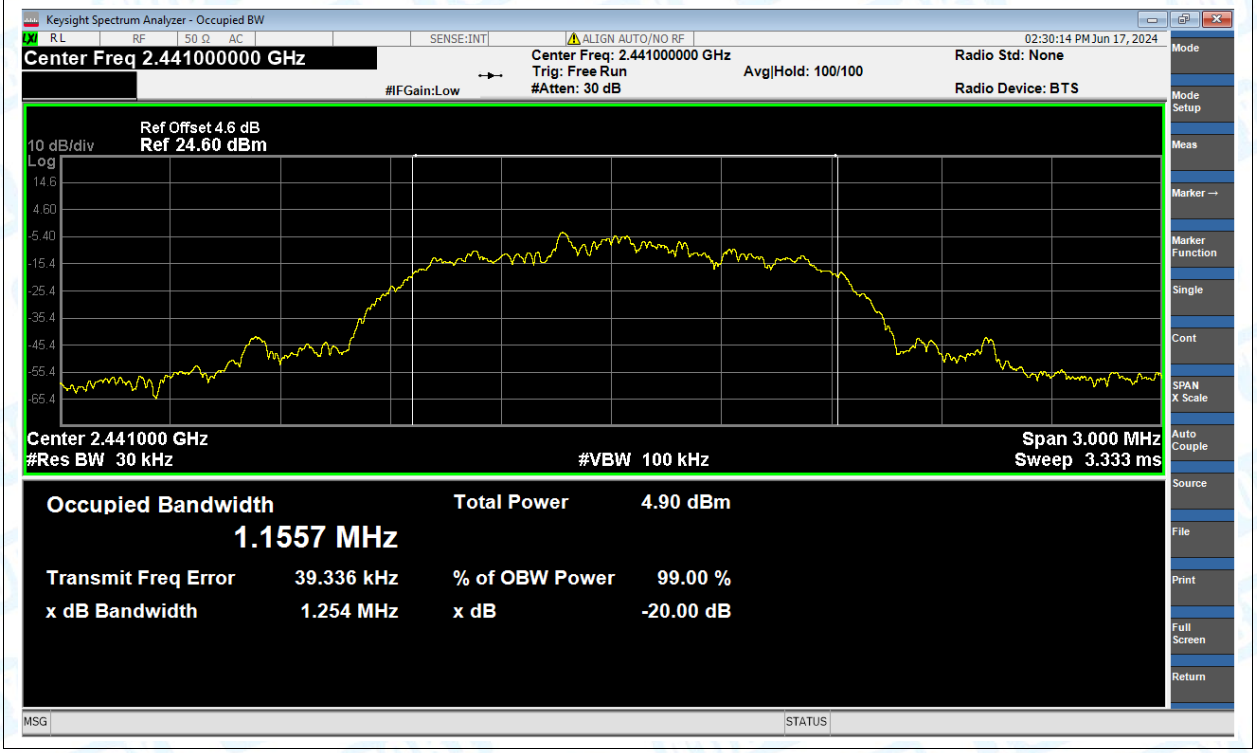
OBW NVNT 2-DH1 2480MHz Ant1



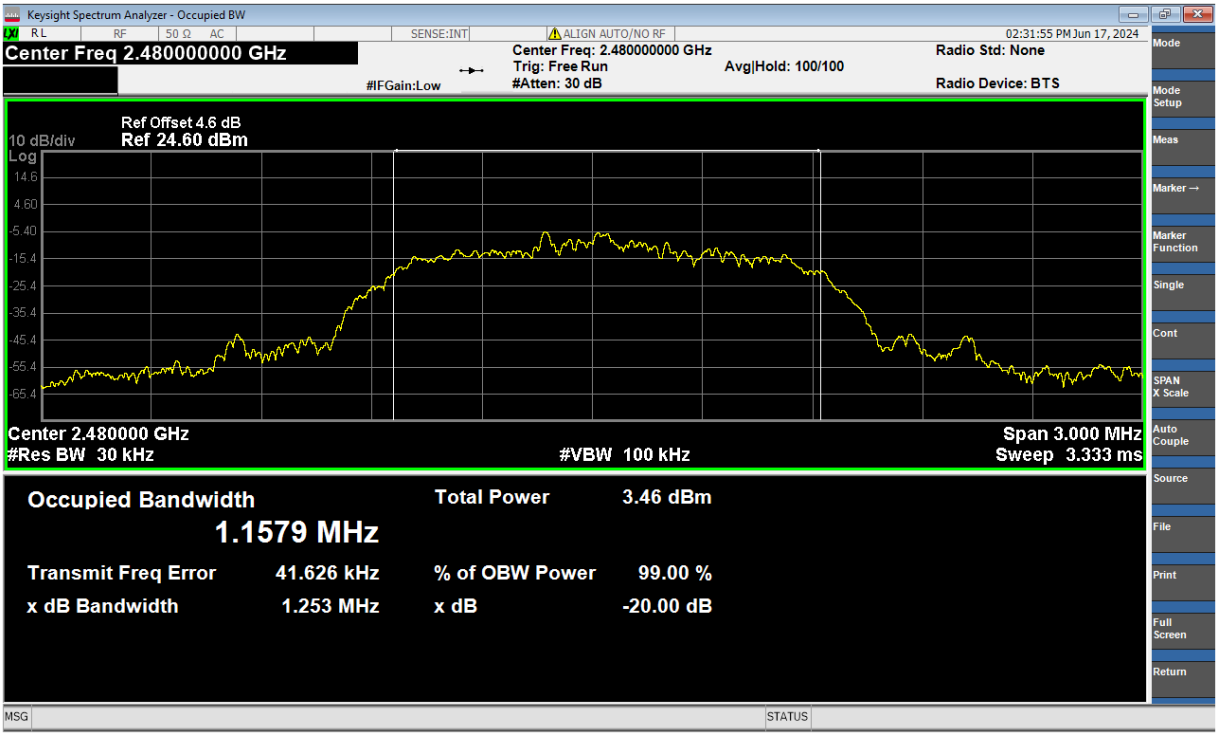
OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



OBW NVNT 3-DH1 2480MHz Ant1

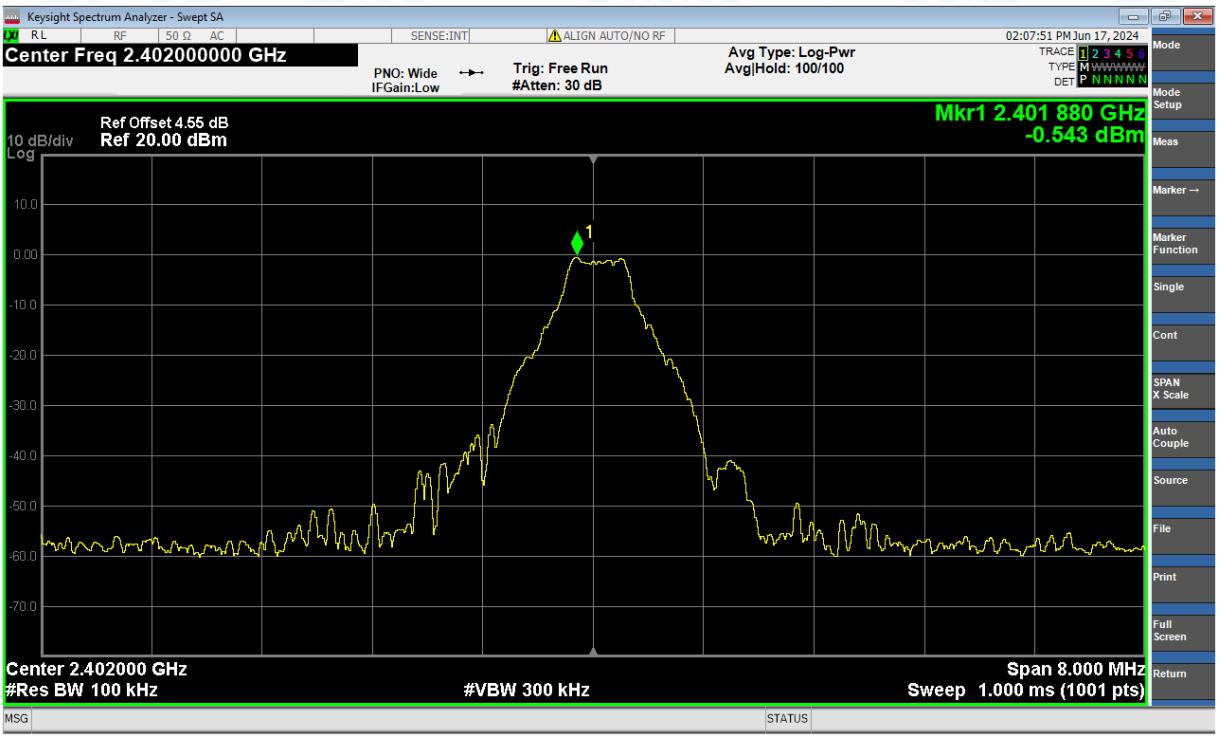


5. Band Edge

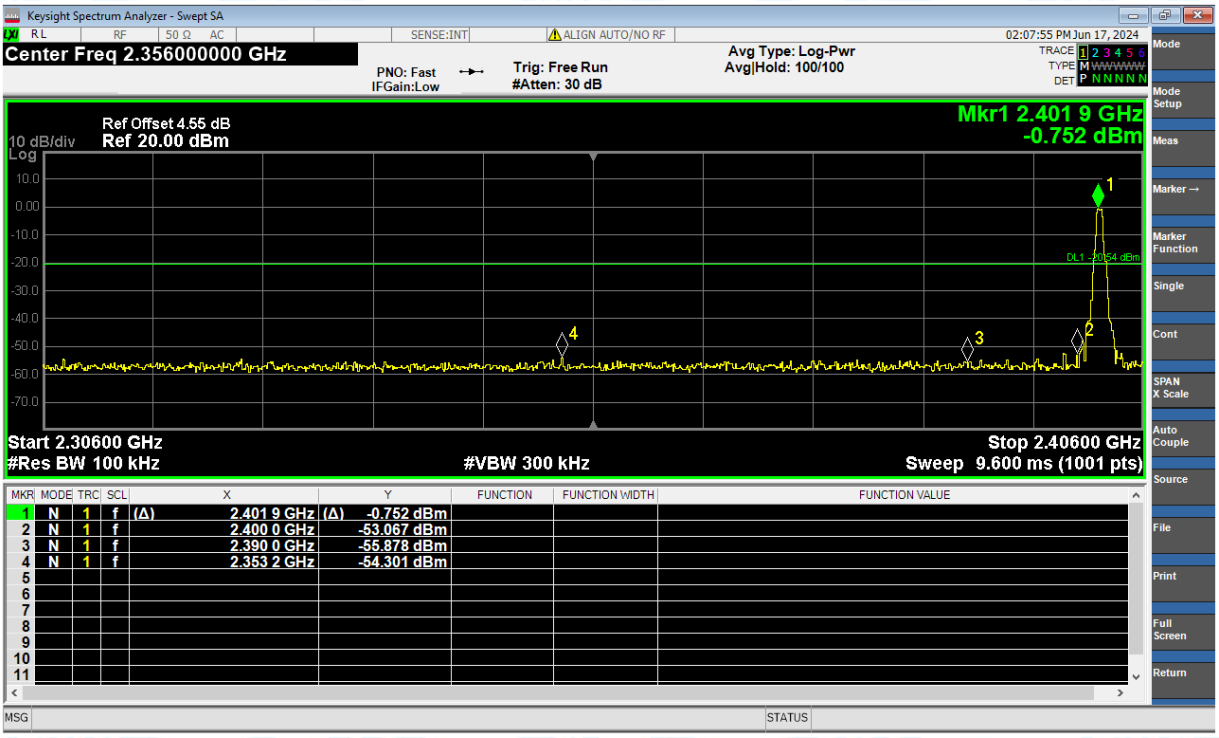
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.76	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-50.5	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-53.78	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-50.83	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-53.79	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-50.4	-20	Pass

Test Graphs

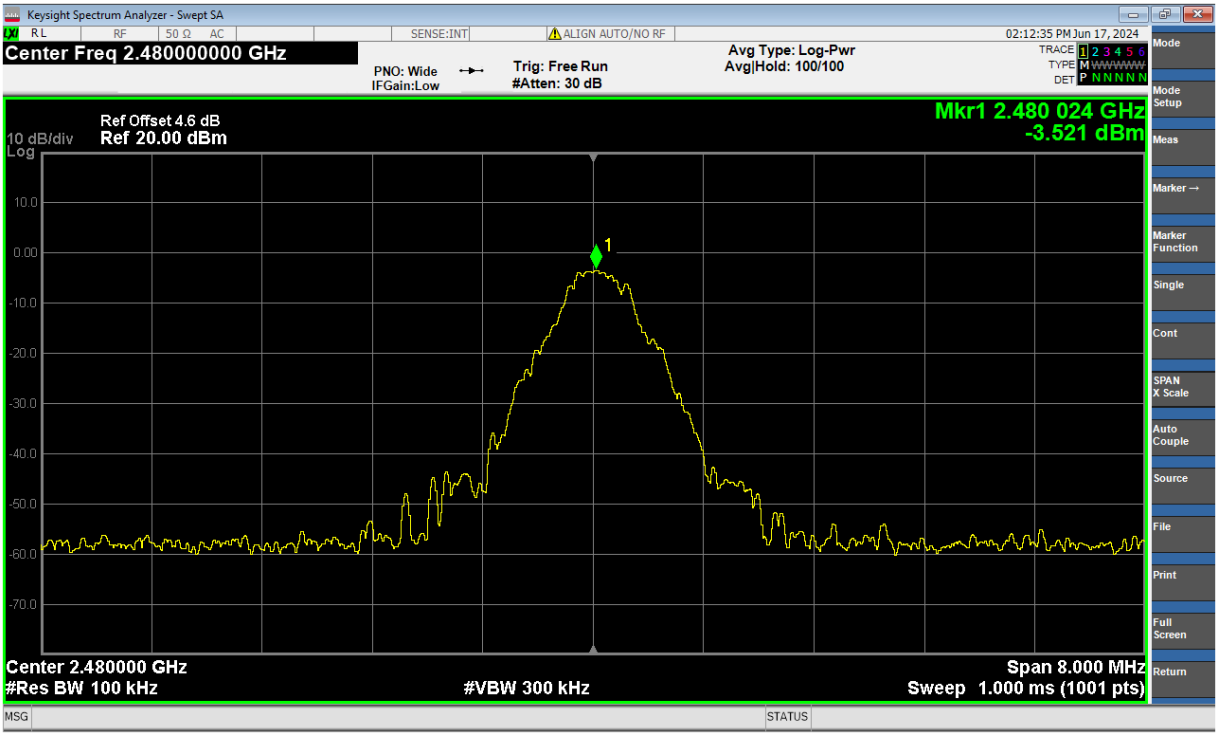
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



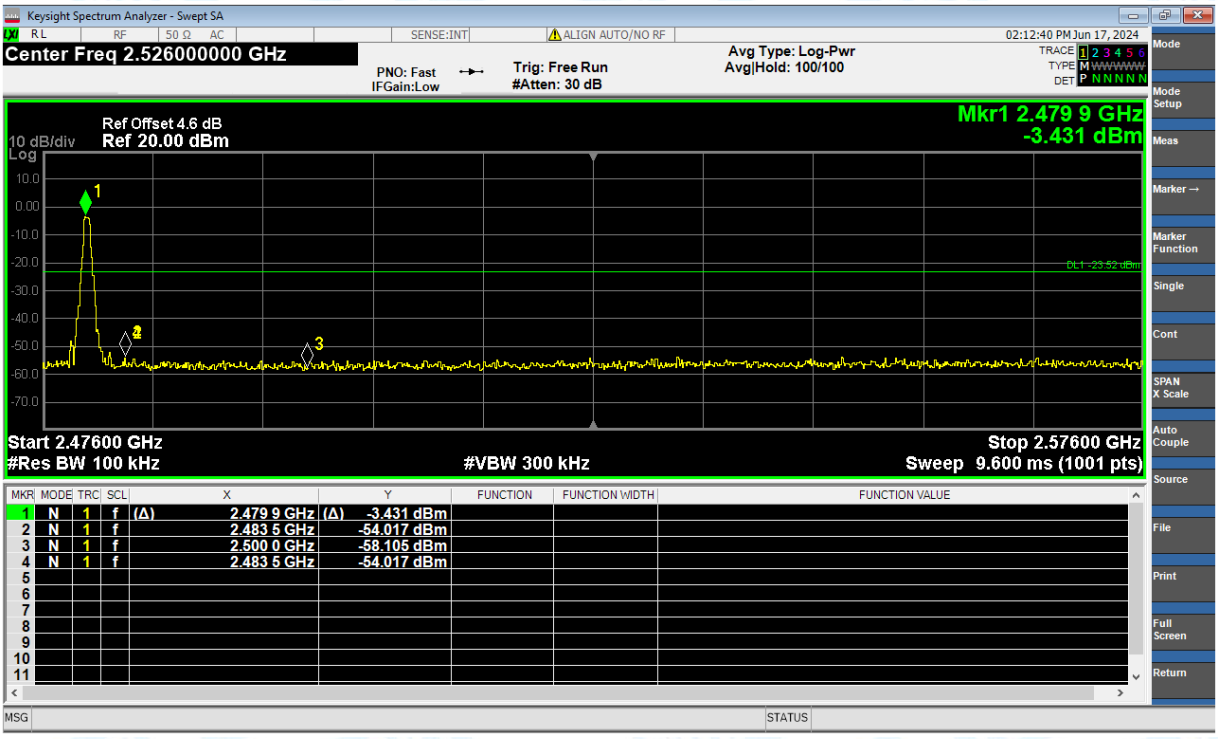
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



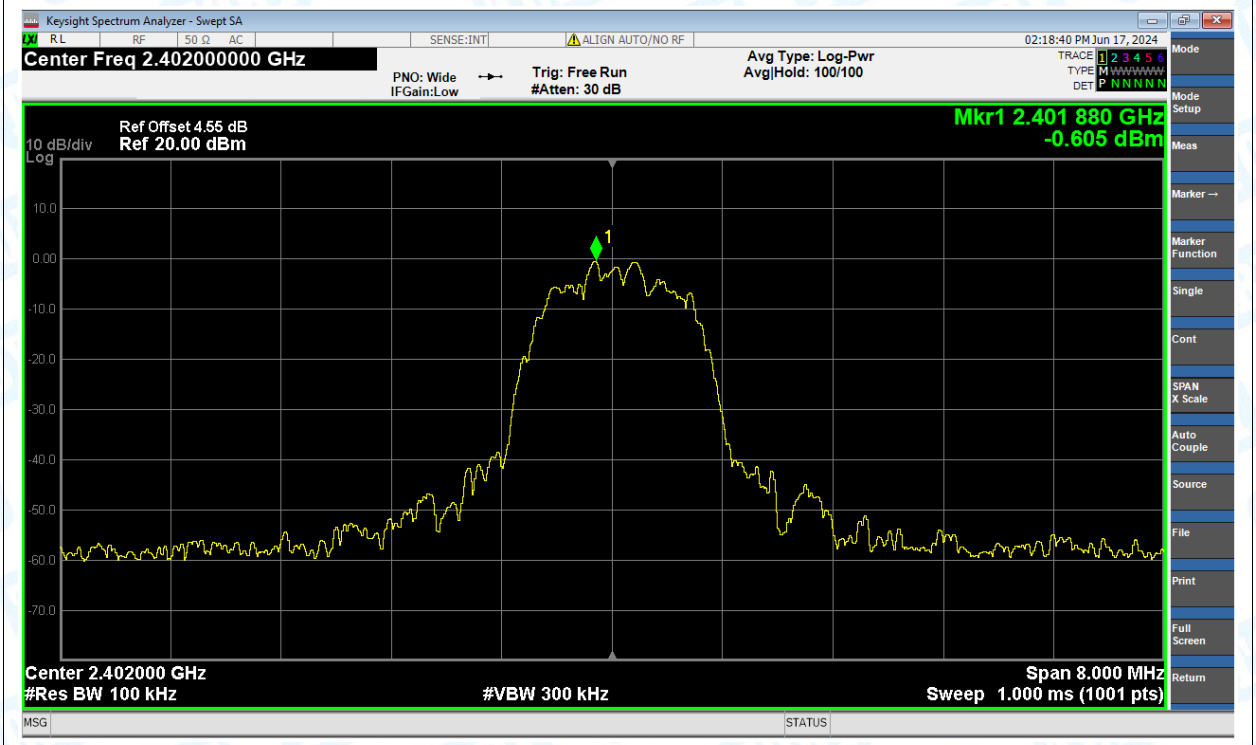
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



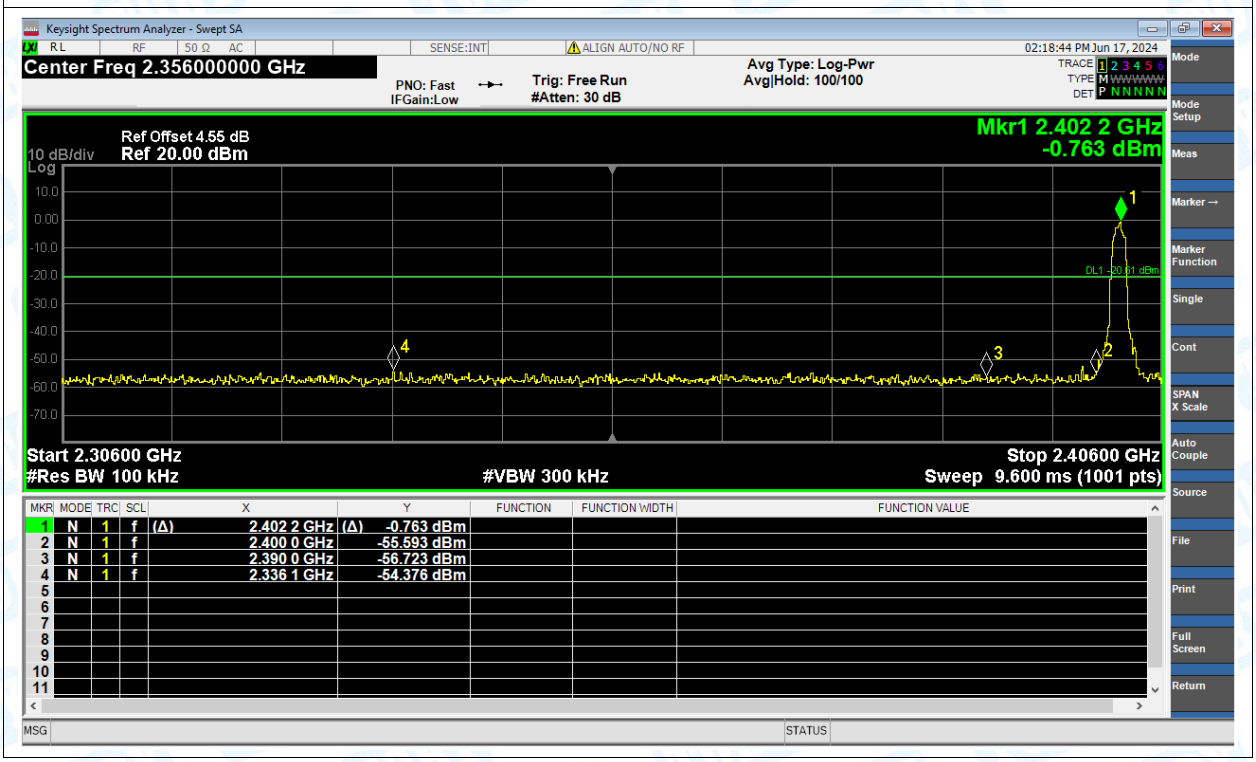
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



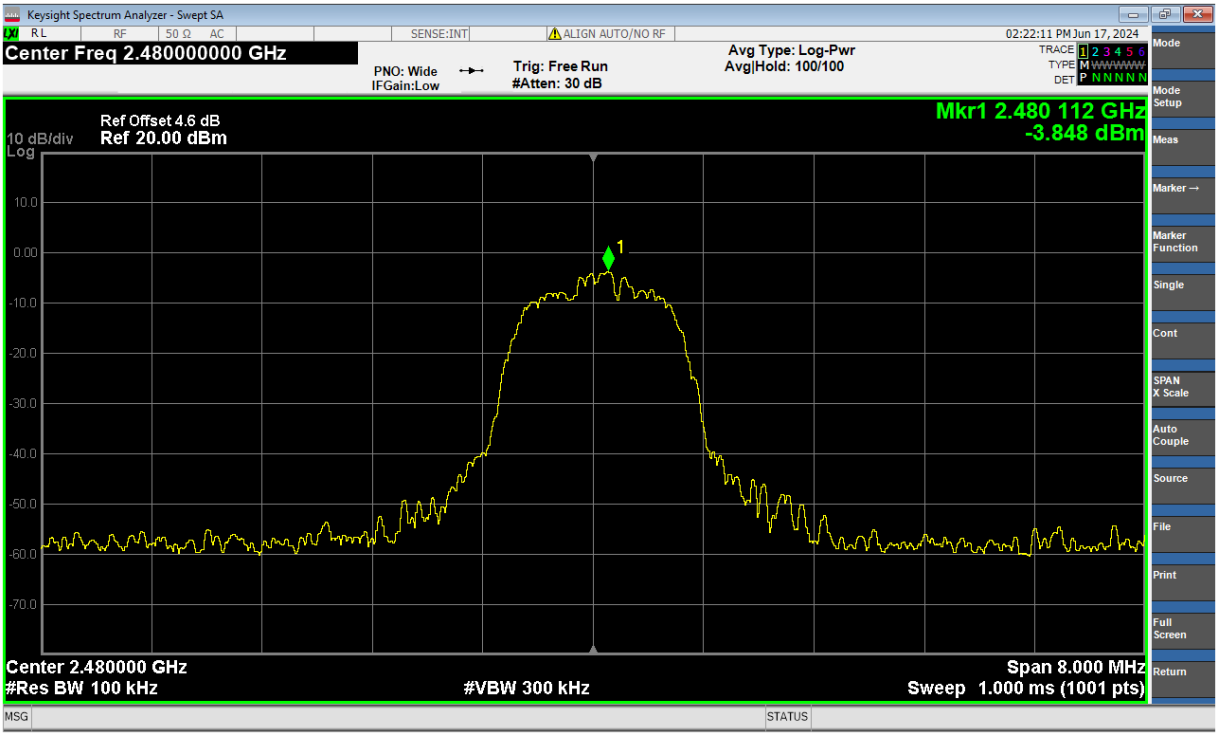
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



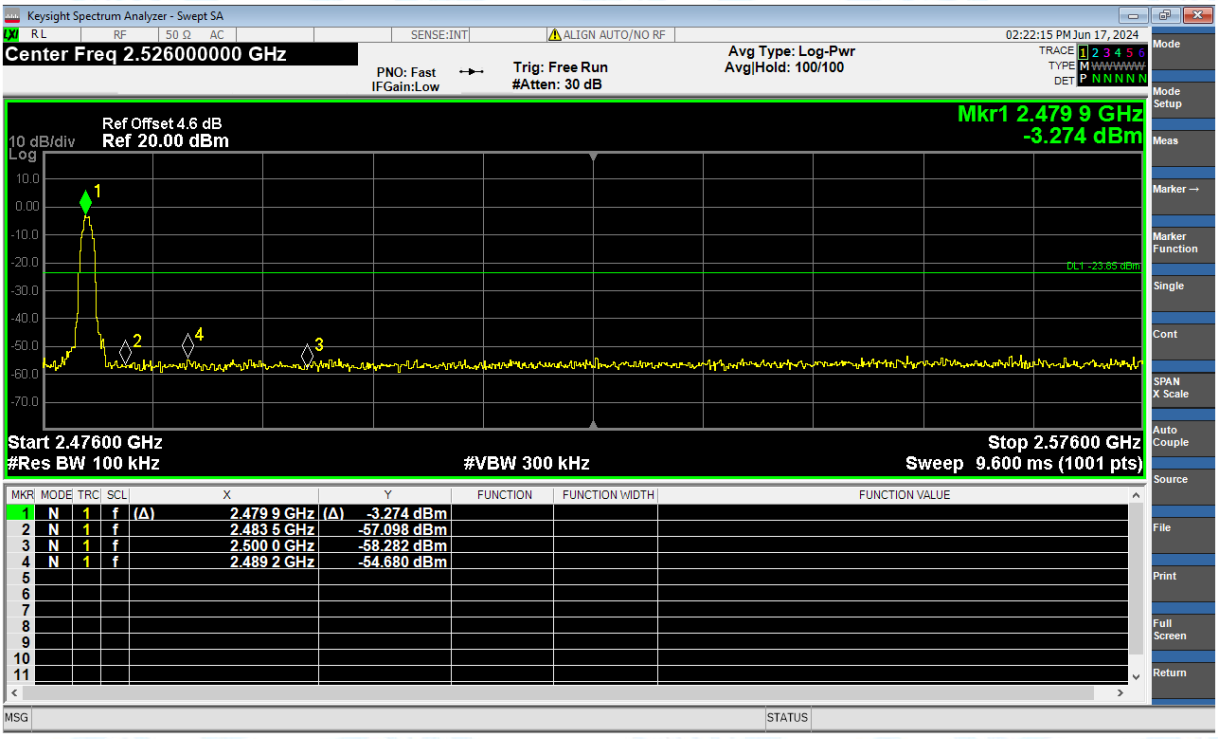
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



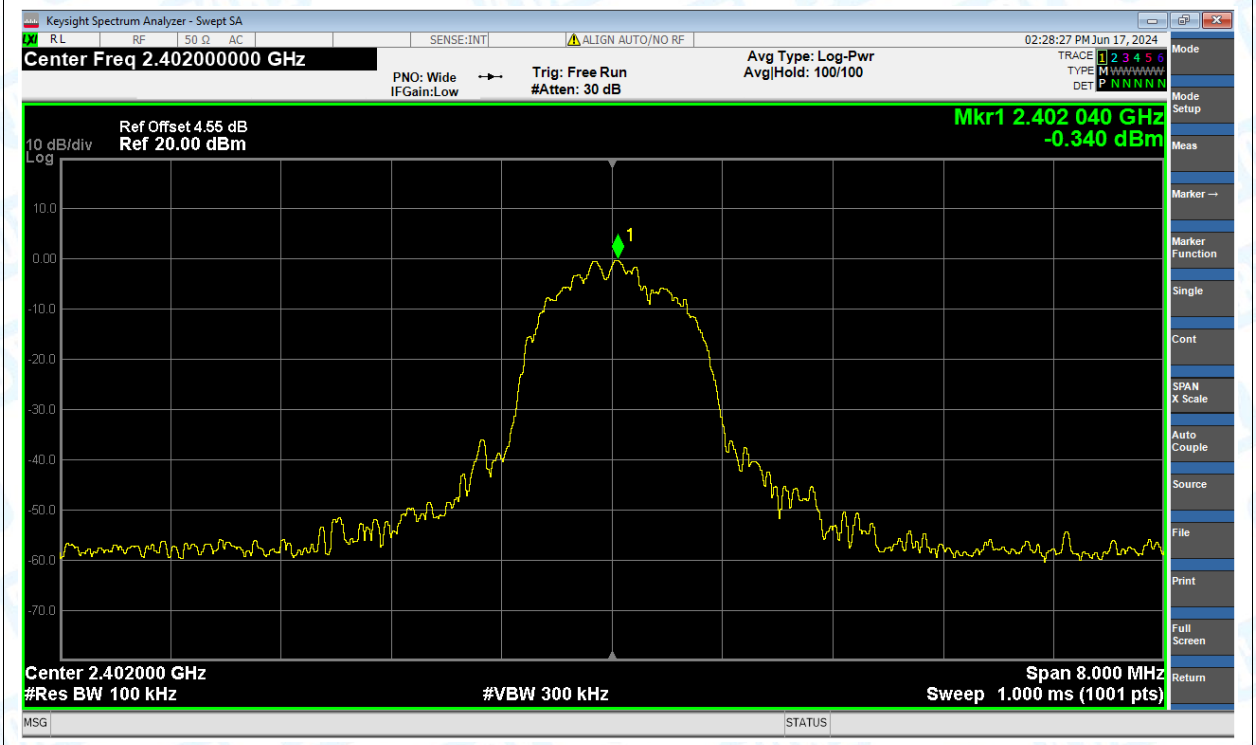
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



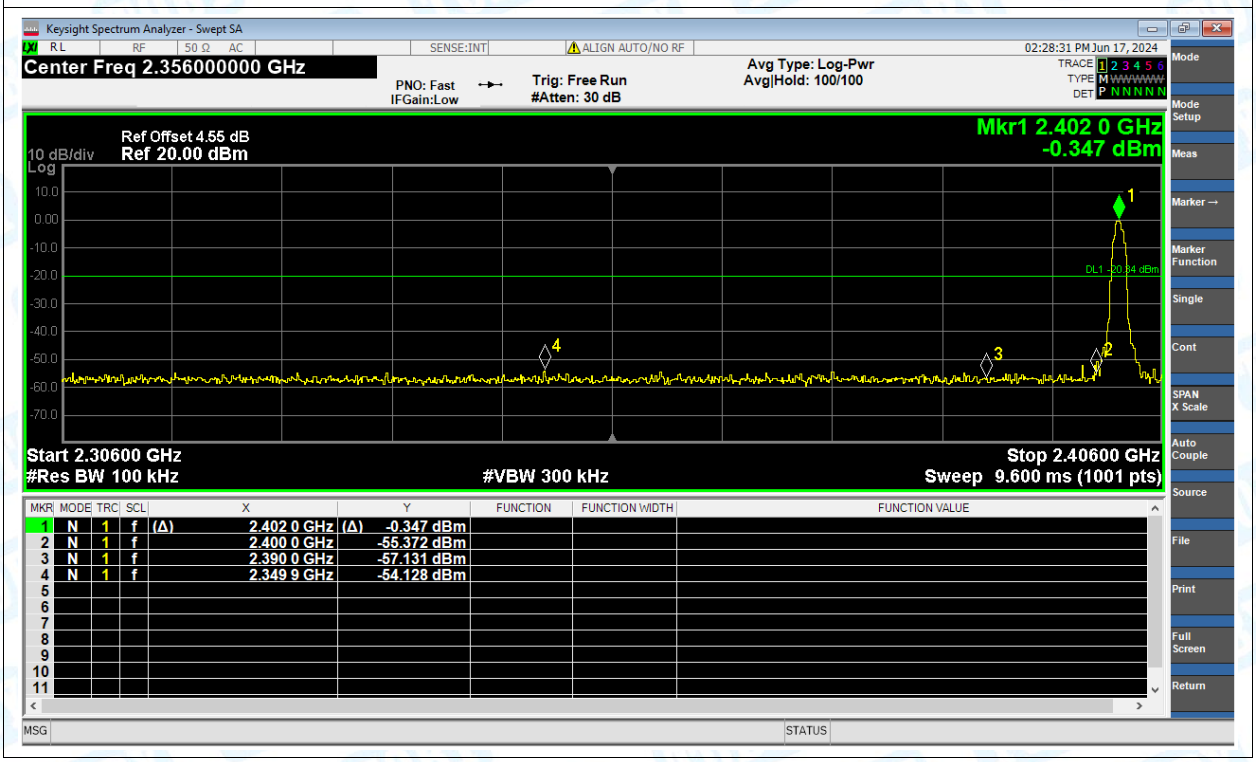
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



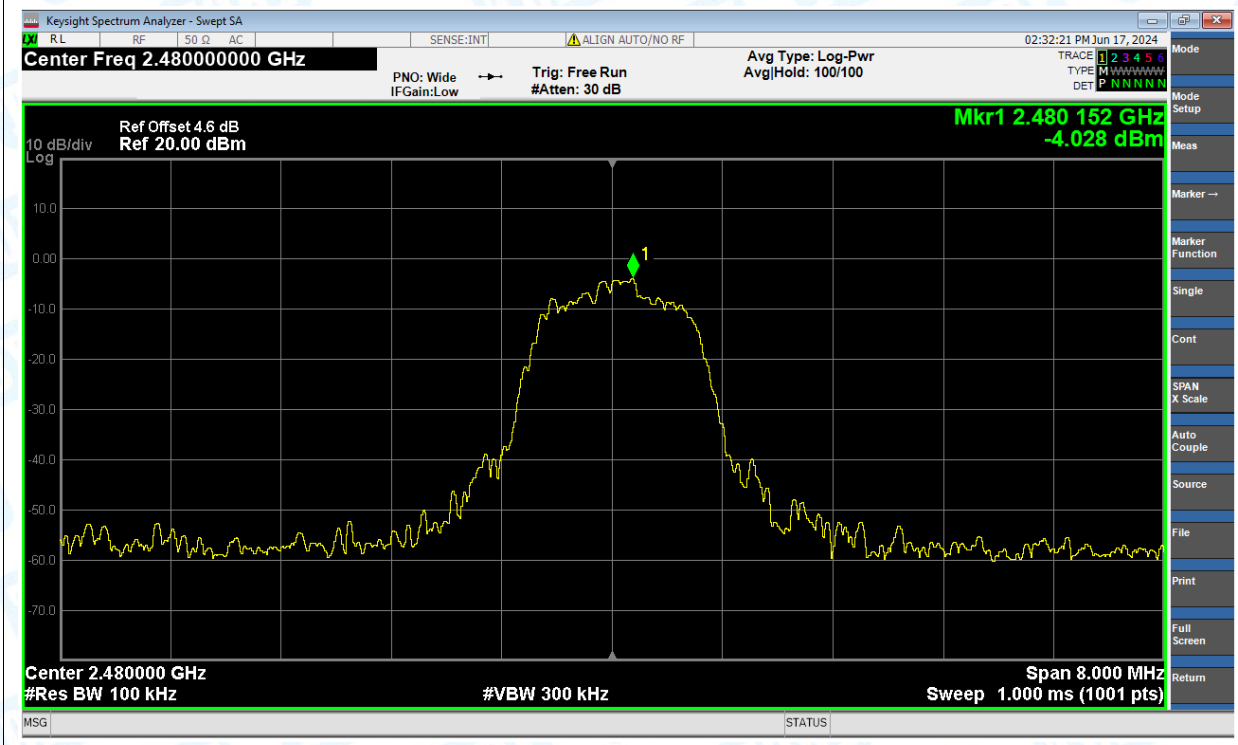
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



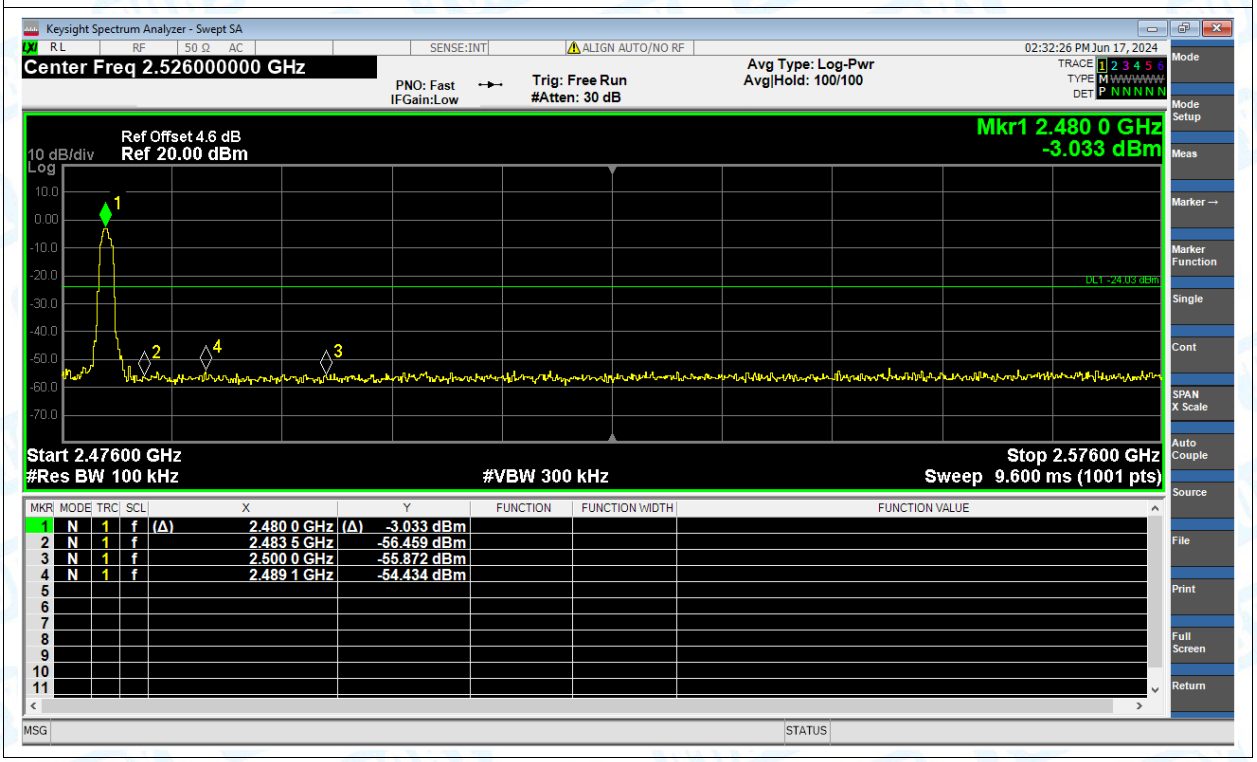
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

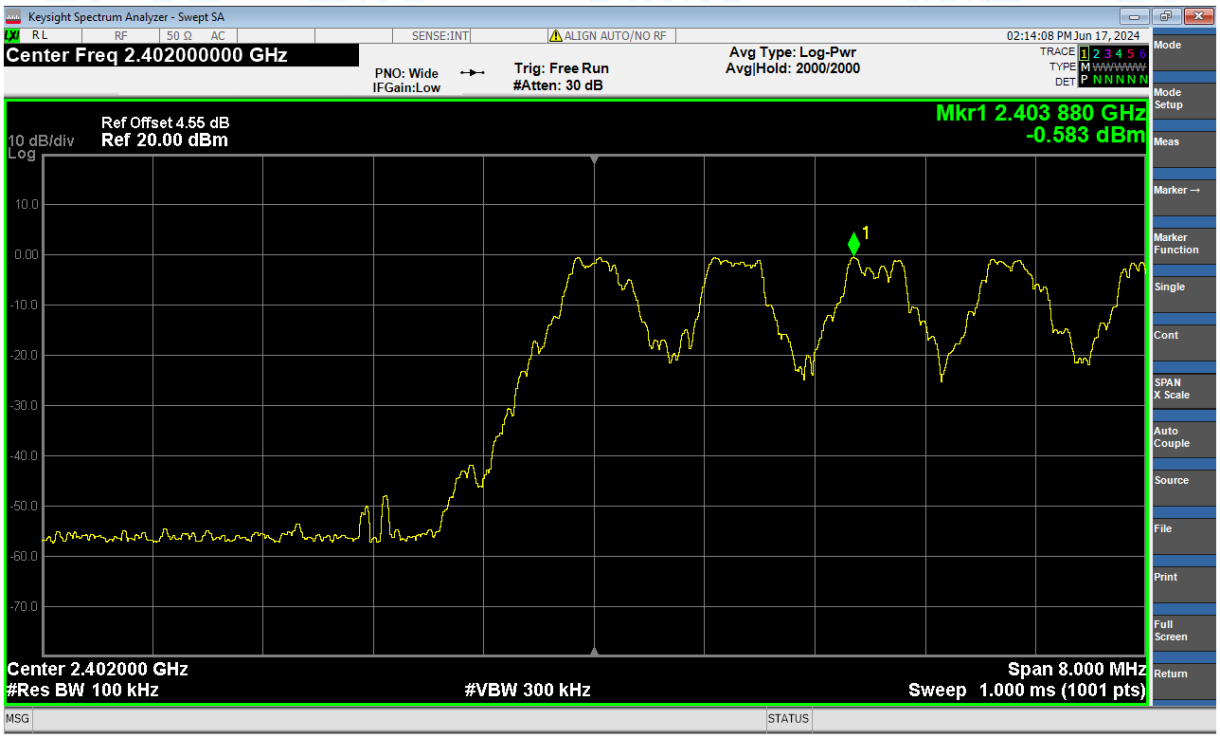


6. Band Edge(Hopping)

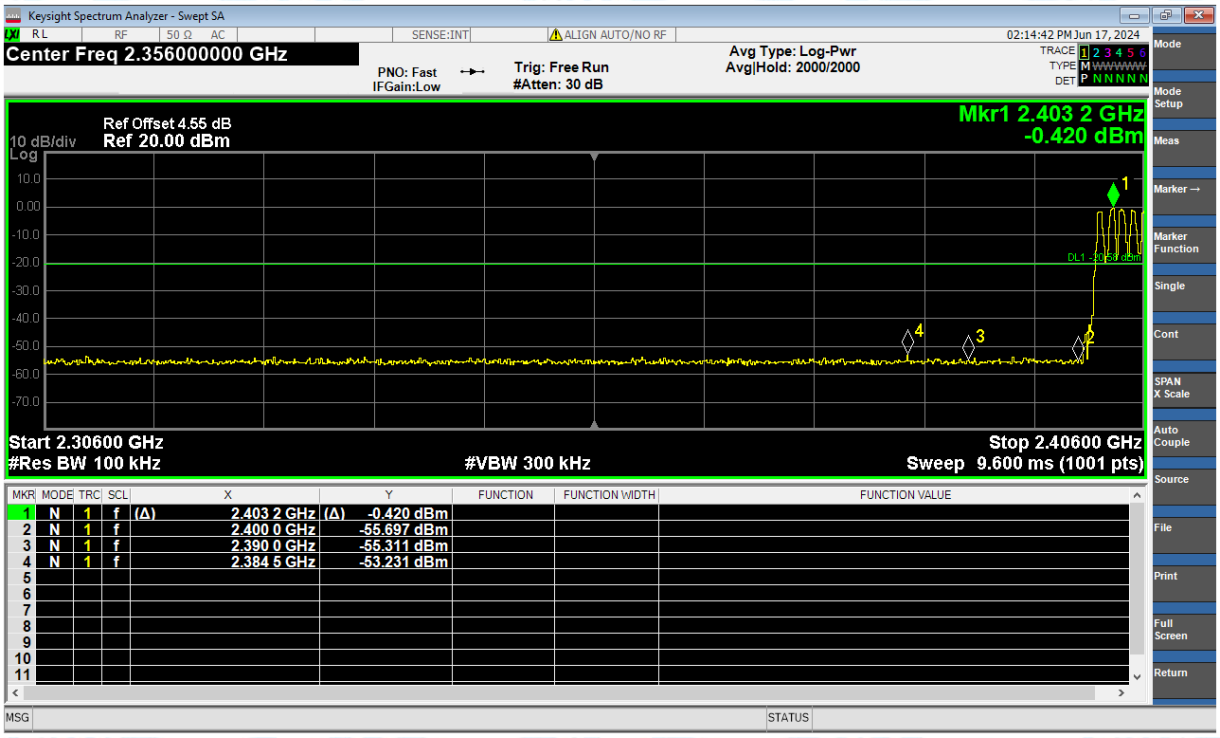
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.65	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-50.39	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-49.02	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-49.68	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-47.83	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-50.47	-20	Pass

Test Graphs

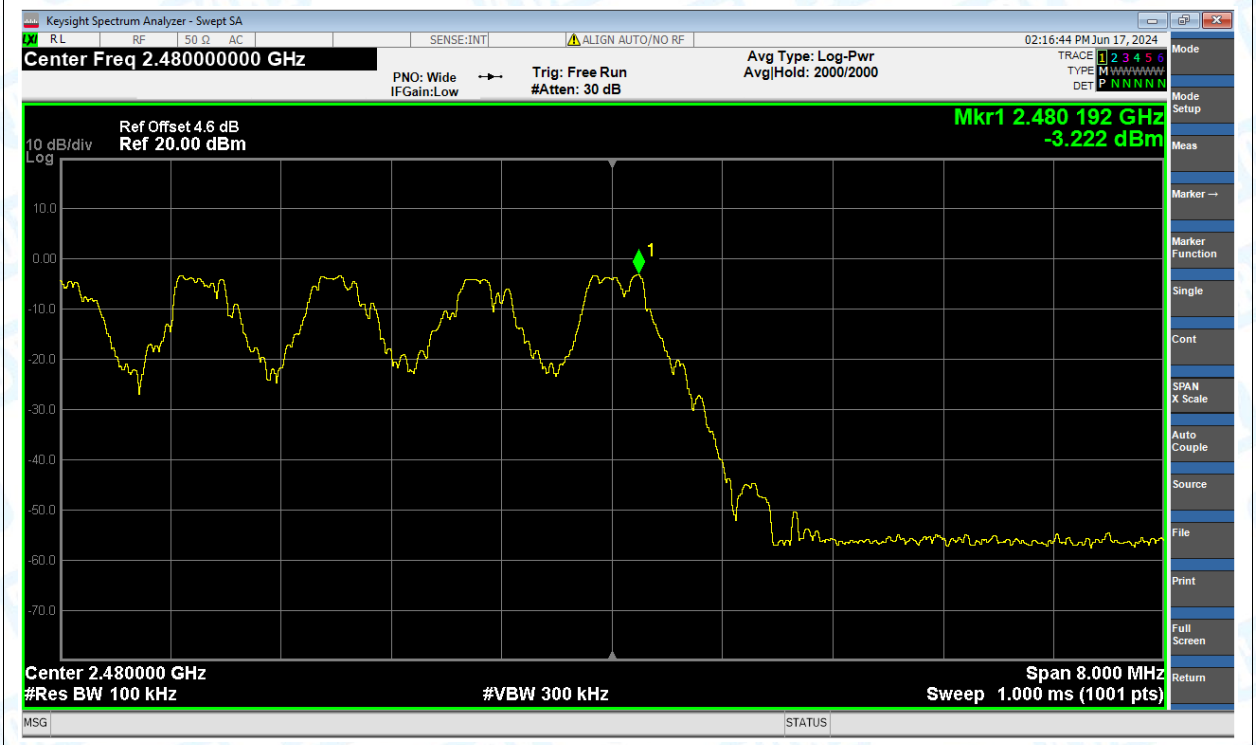
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



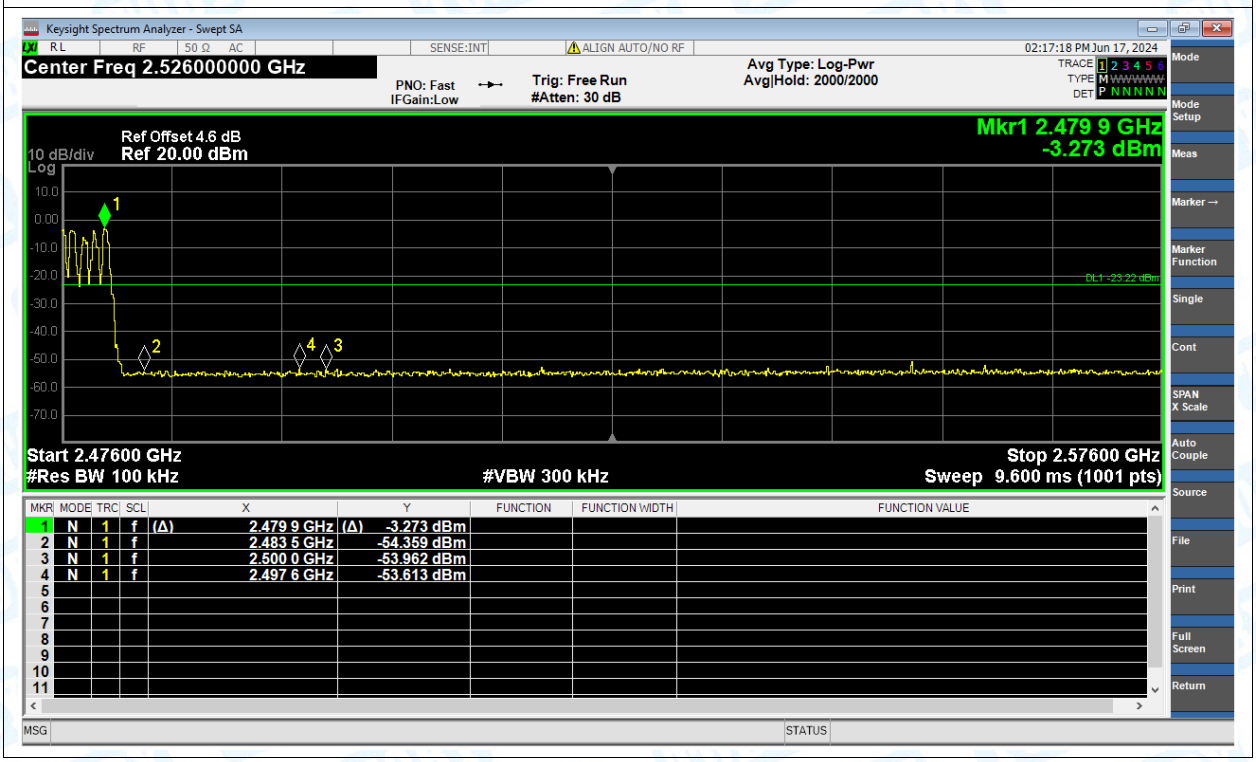
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



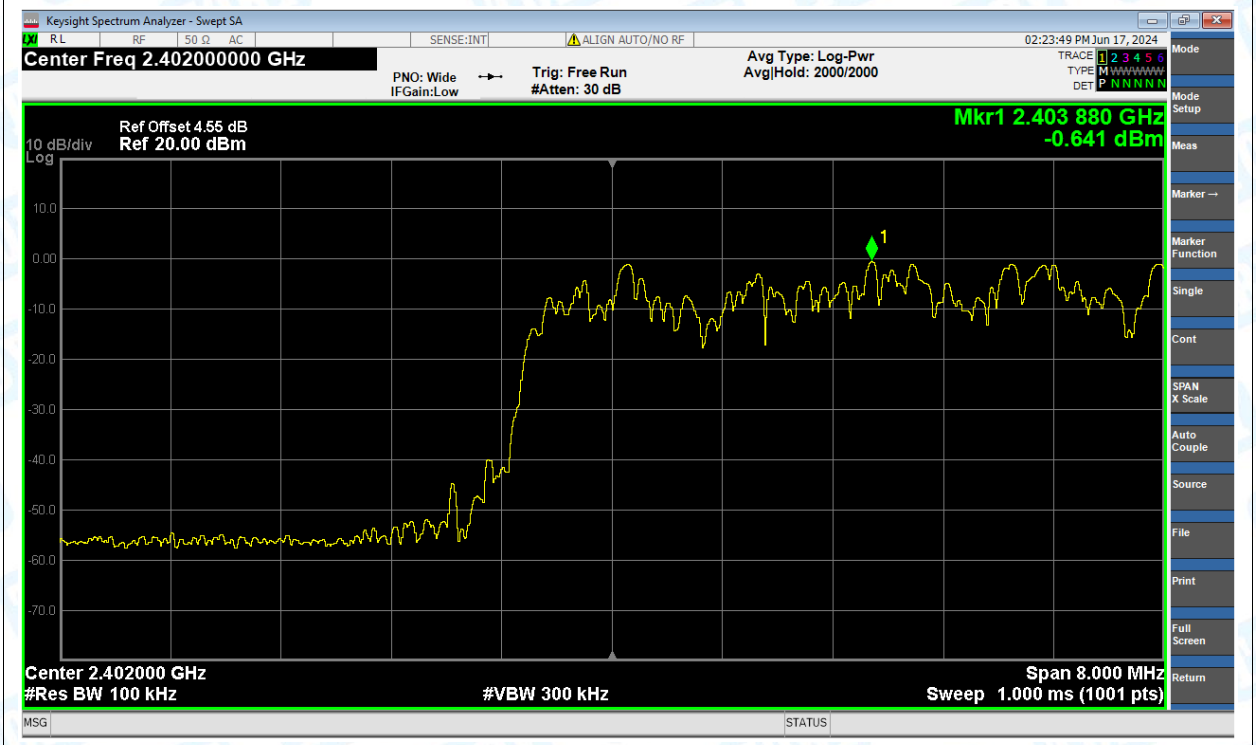
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



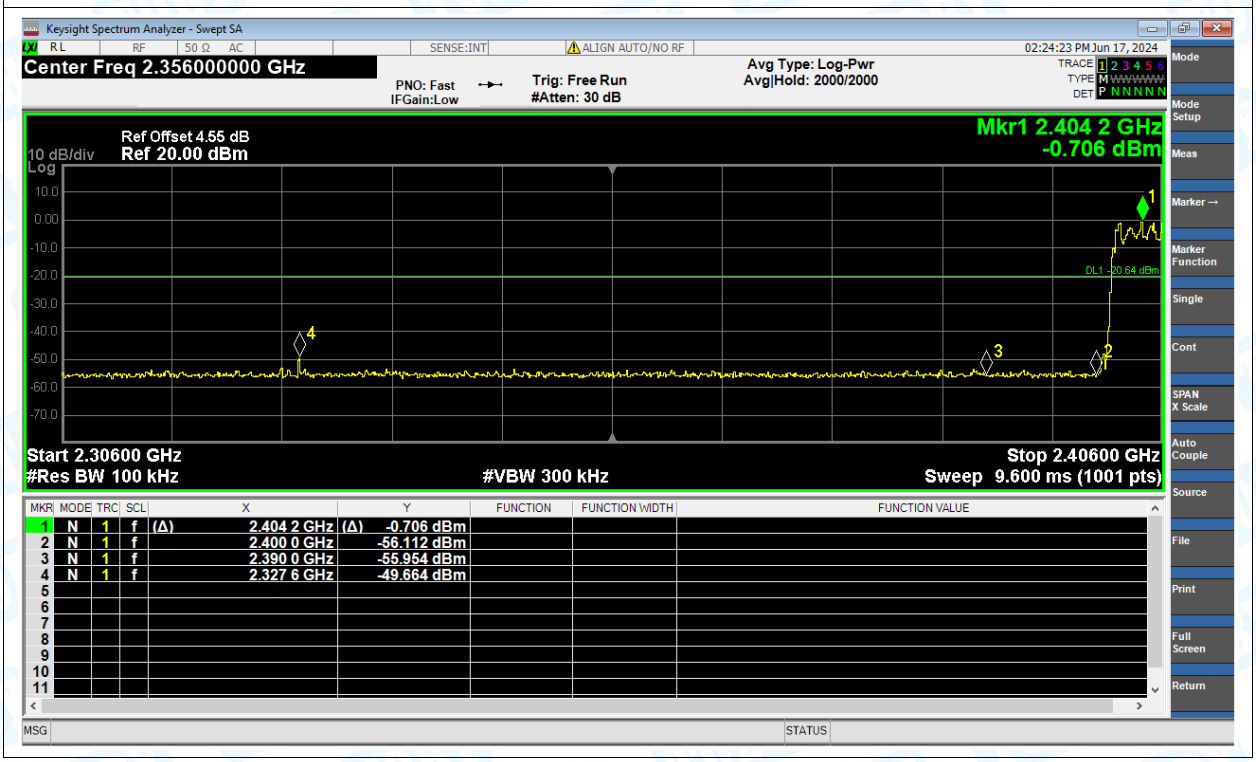
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



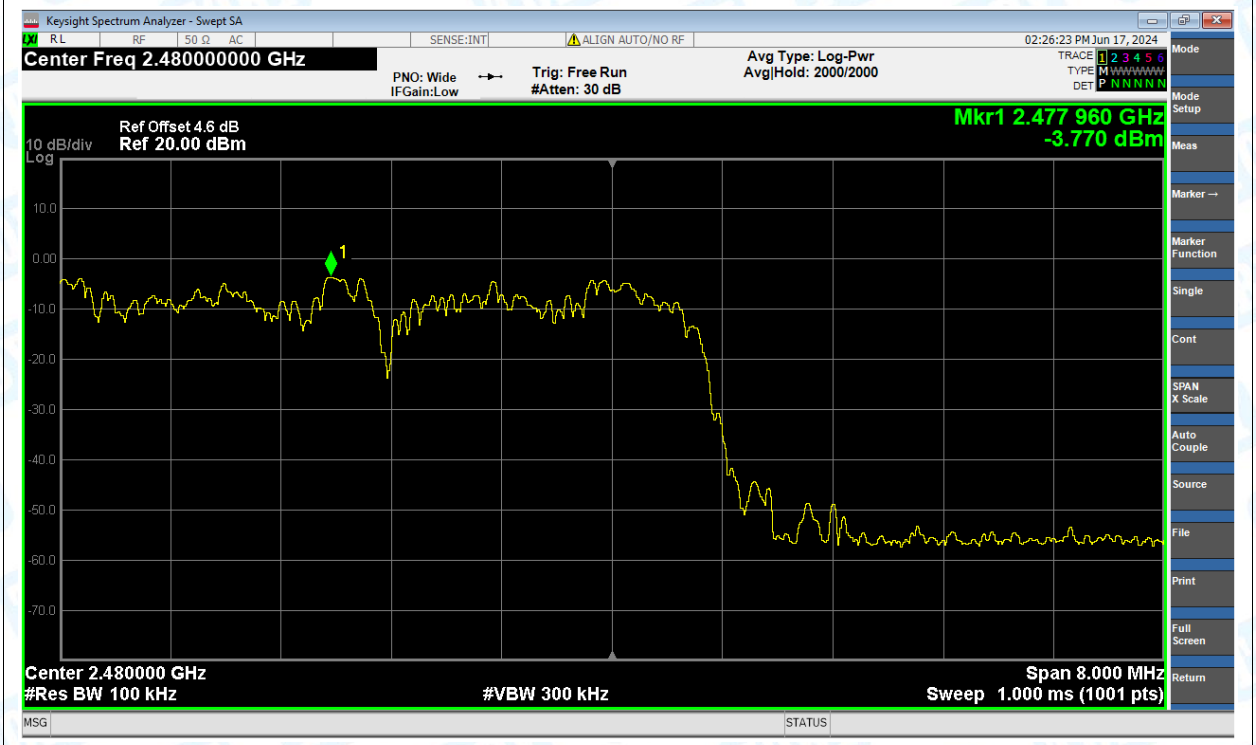
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



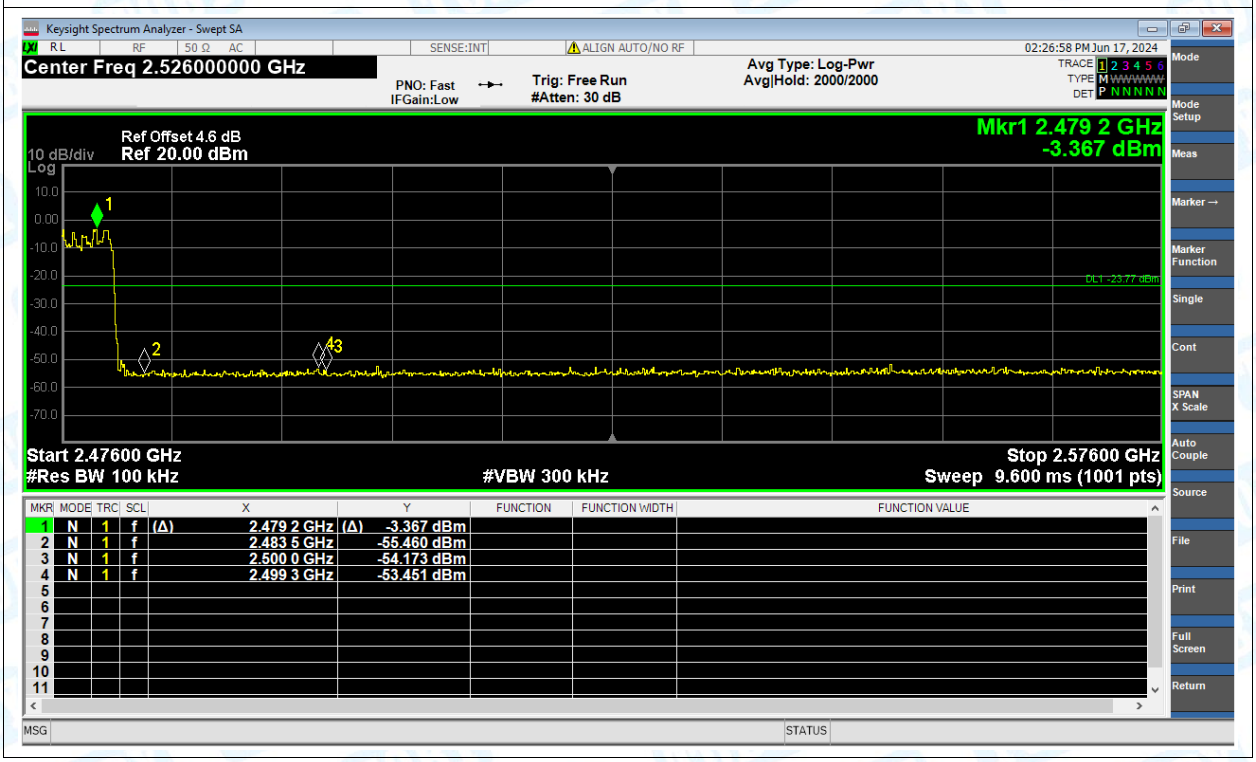
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



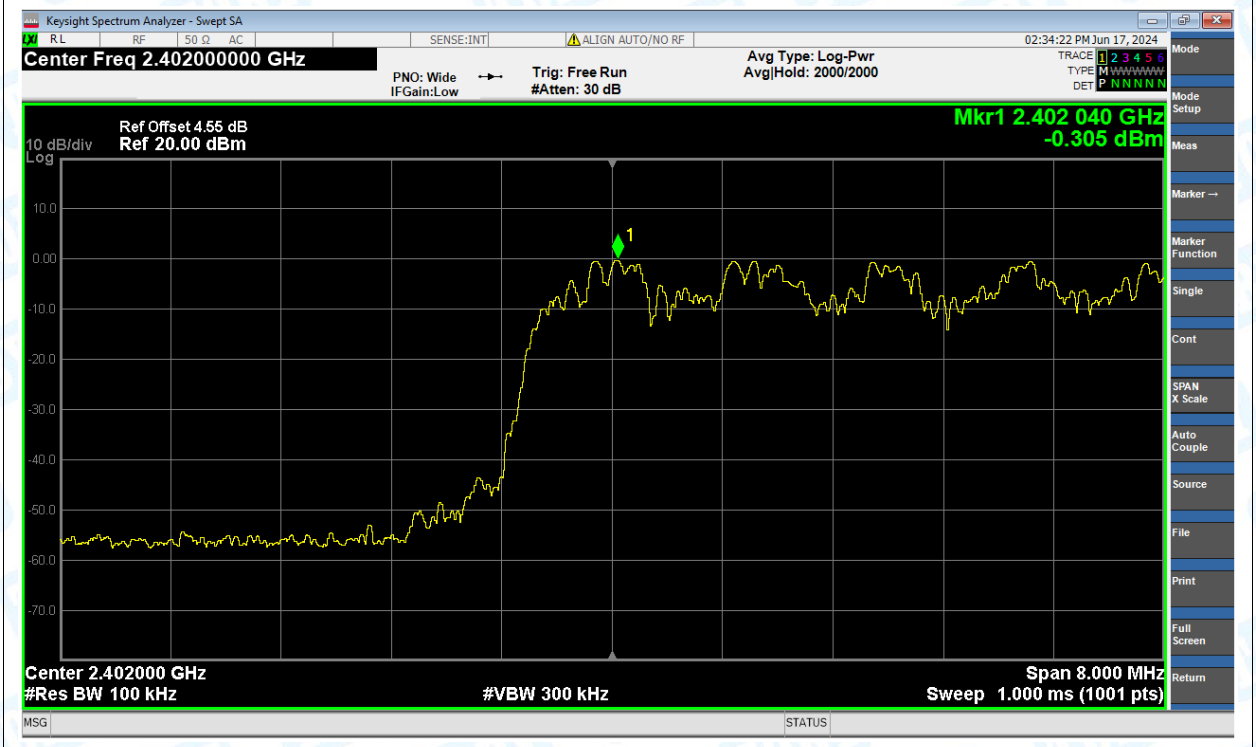
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



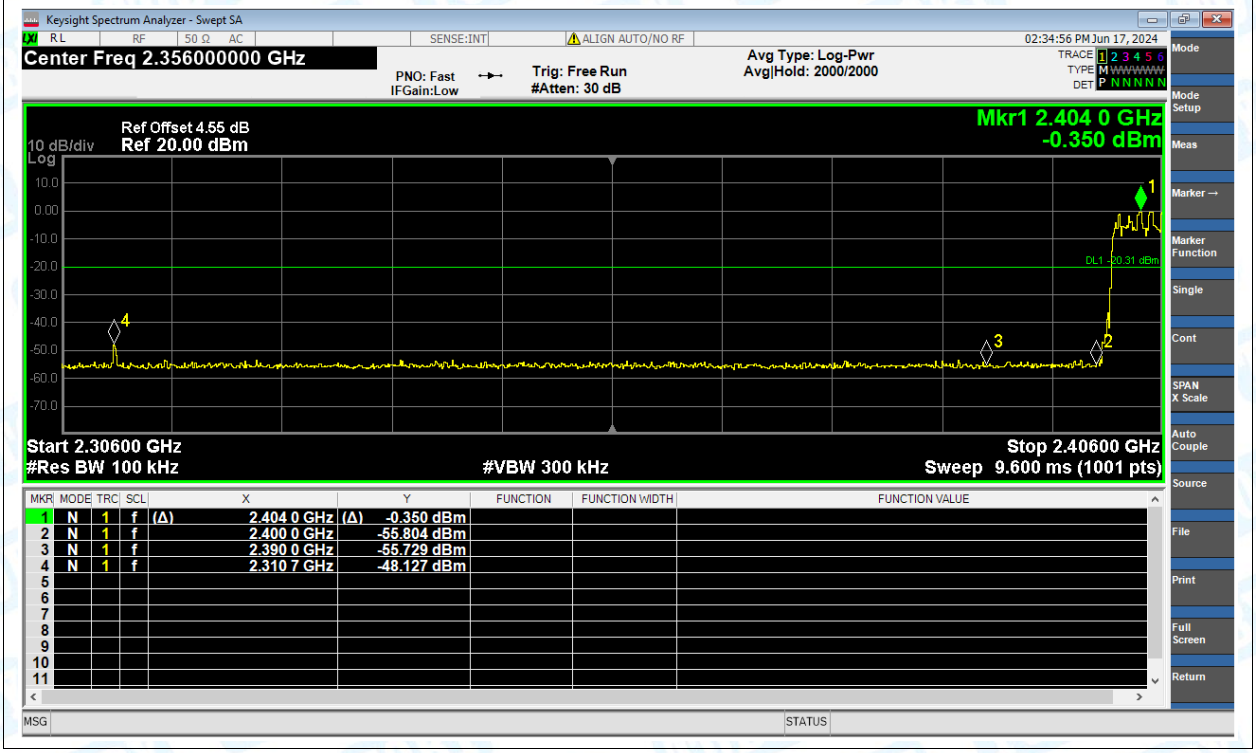
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



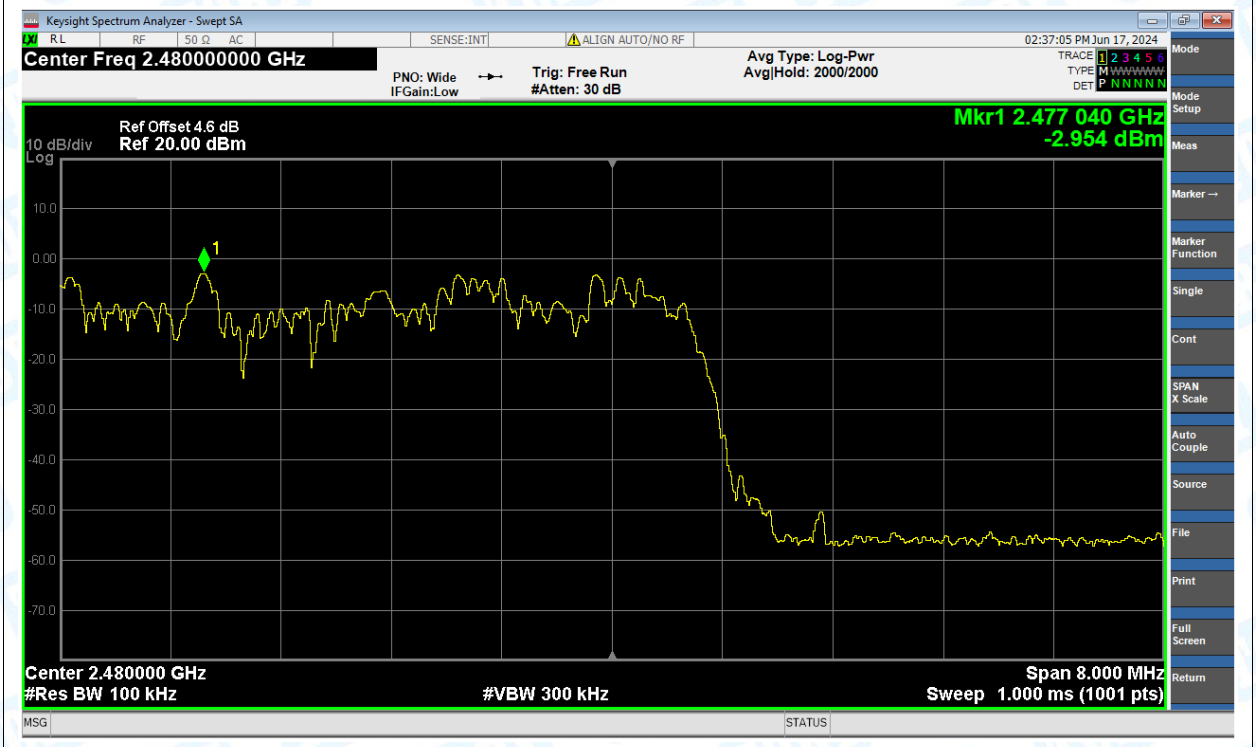
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



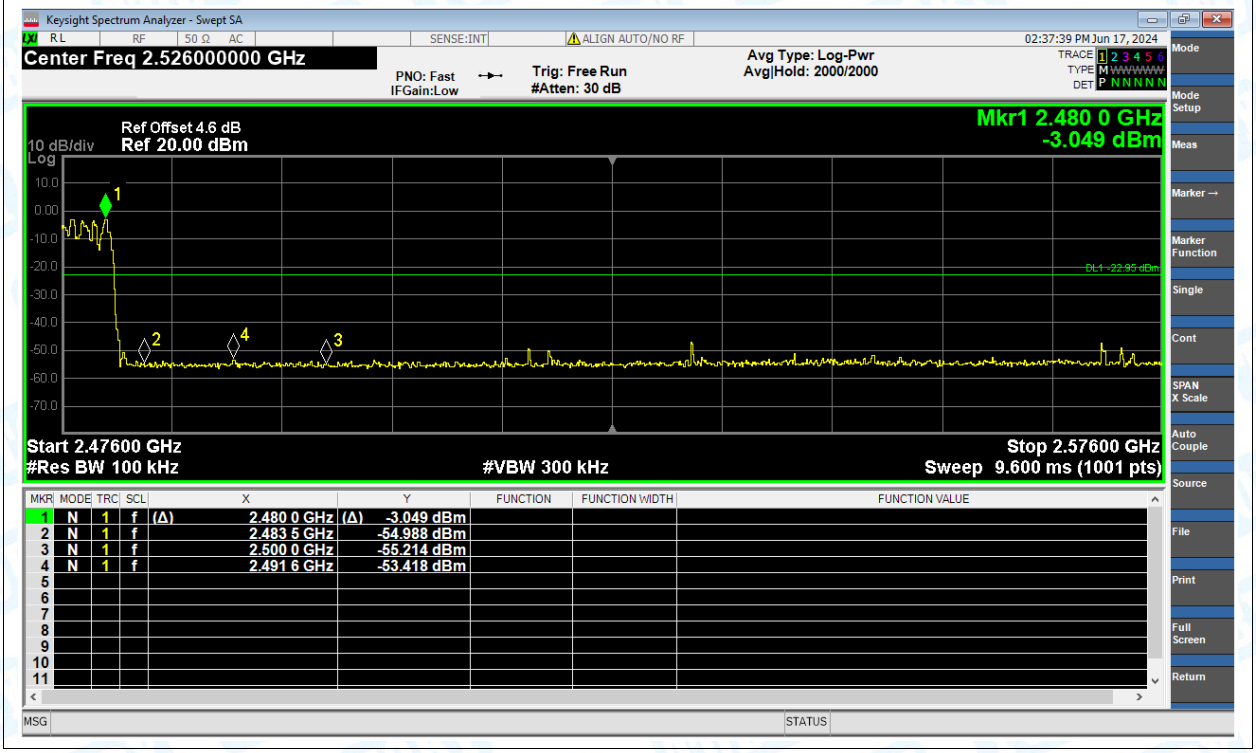
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

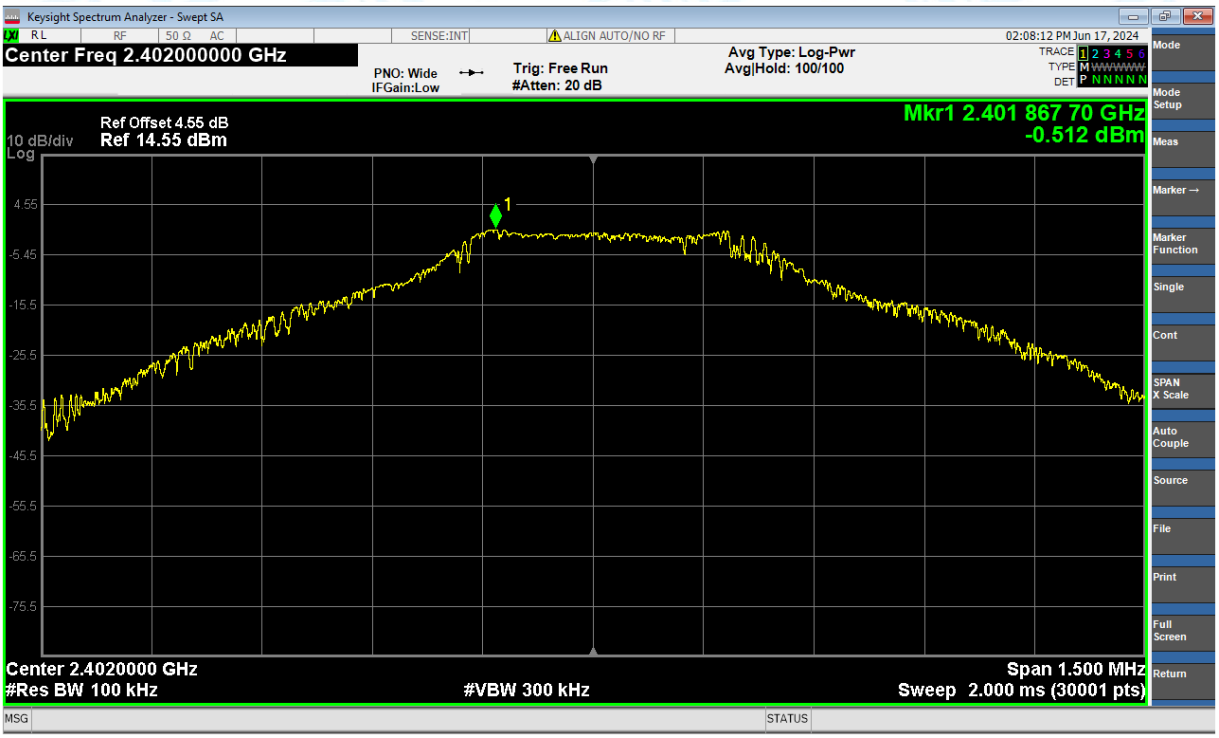


7. Conducted RF Spurious Emission

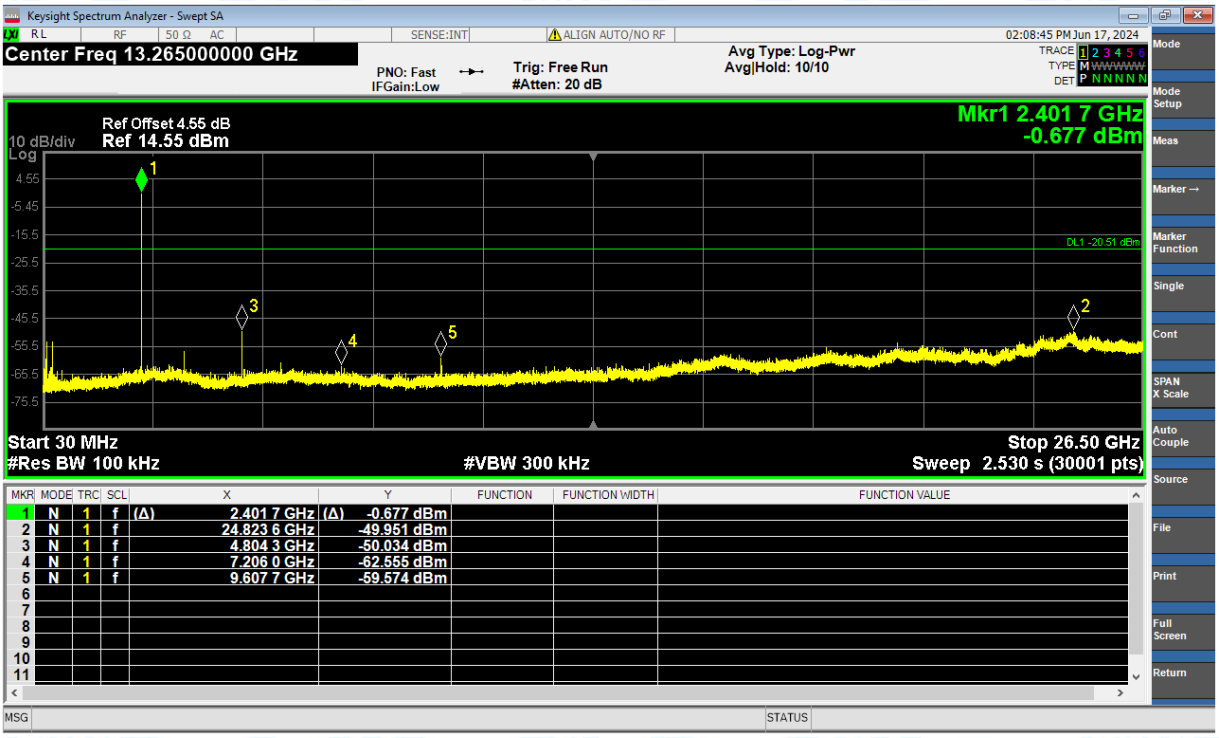
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-49.44	-20	Pass
NVNT	1-DH1	2441	Ant1	-47.37	-20	Pass
NVNT	1-DH1	2480	Ant1	-46.4	-20	Pass
NVNT	2-DH1	2402	Ant1	-49.75	-20	Pass
NVNT	2-DH1	2441	Ant1	-43.61	-20	Pass
NVNT	2-DH1	2480	Ant1	-44.77	-20	Pass
NVNT	3-DH1	2402	Ant1	-48.73	-20	Pass
NVNT	3-DH1	2441	Ant1	-48.32	-20	Pass
NVNT	3-DH1	2480	Ant1	-47.28	-20	Pass

Test Graphs

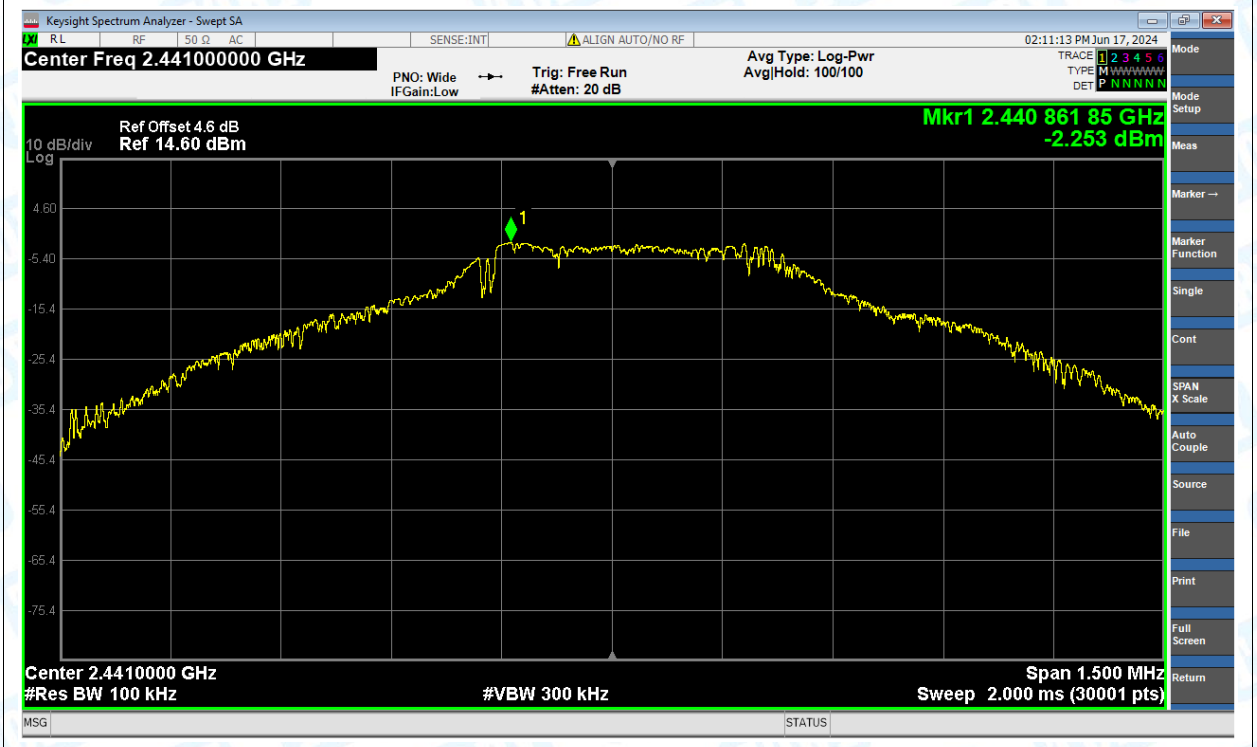
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission

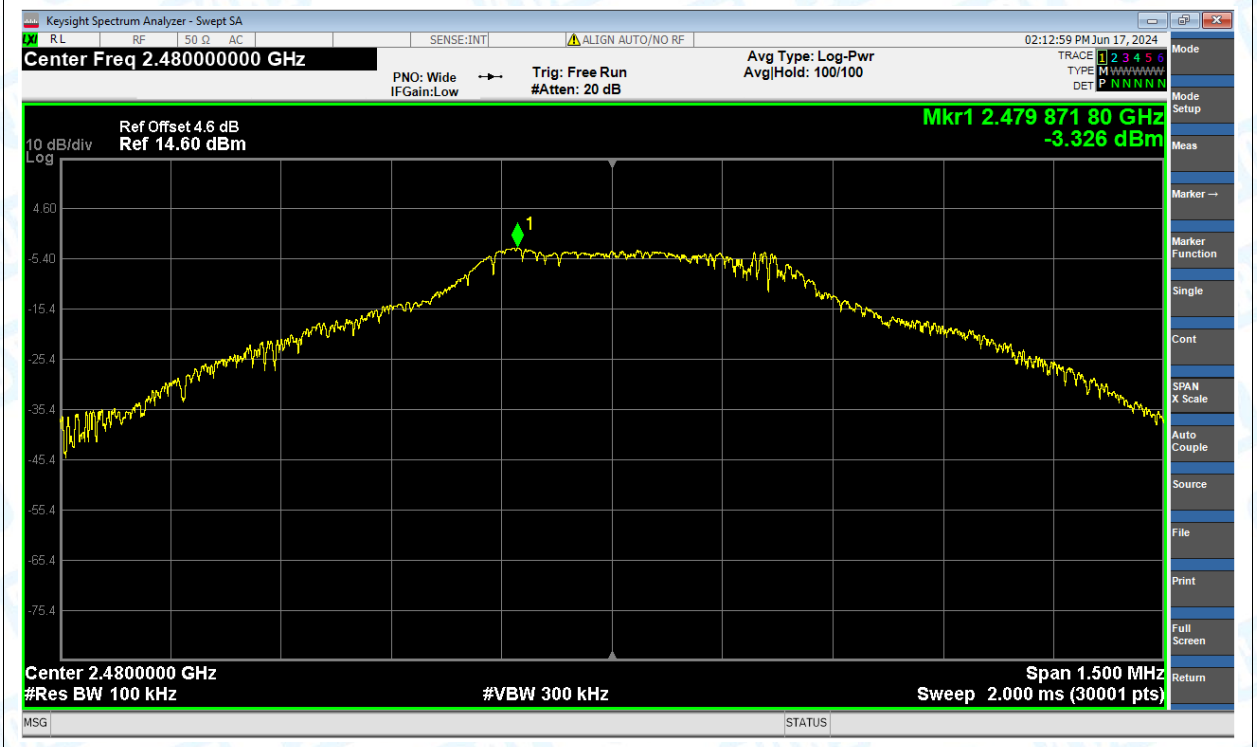


Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref

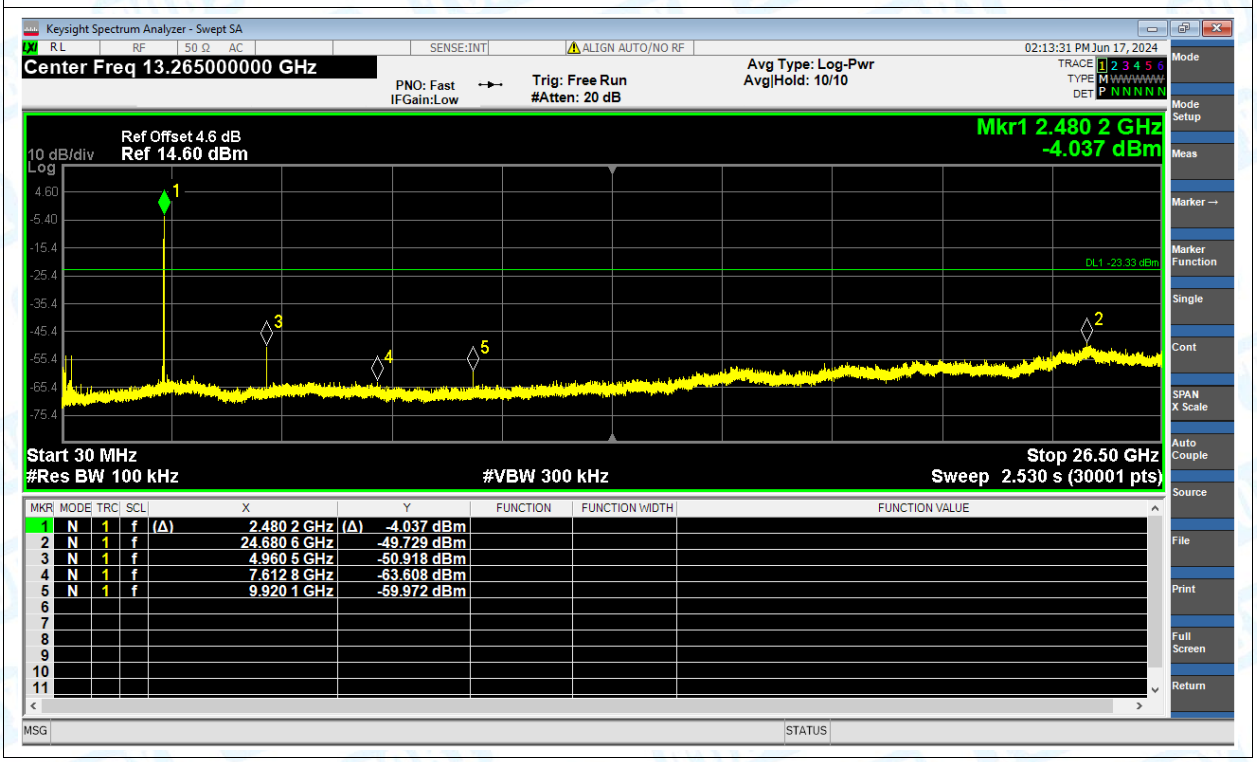


Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission

Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



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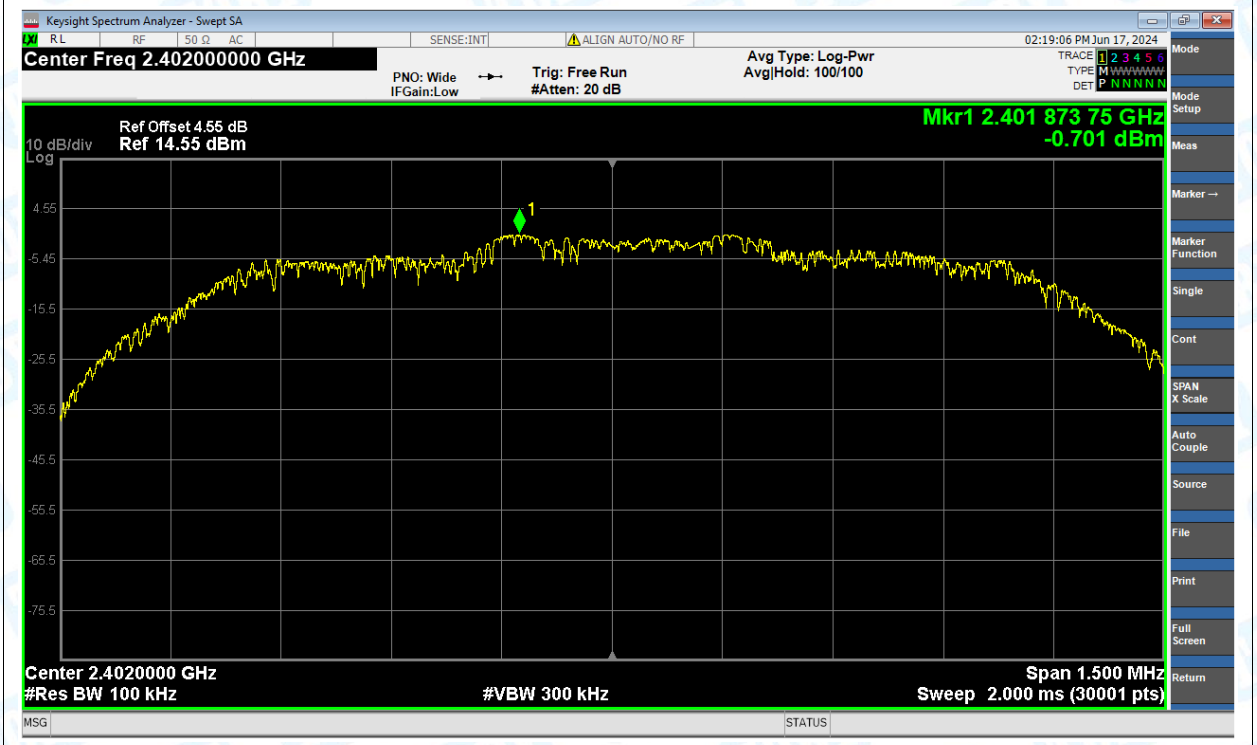
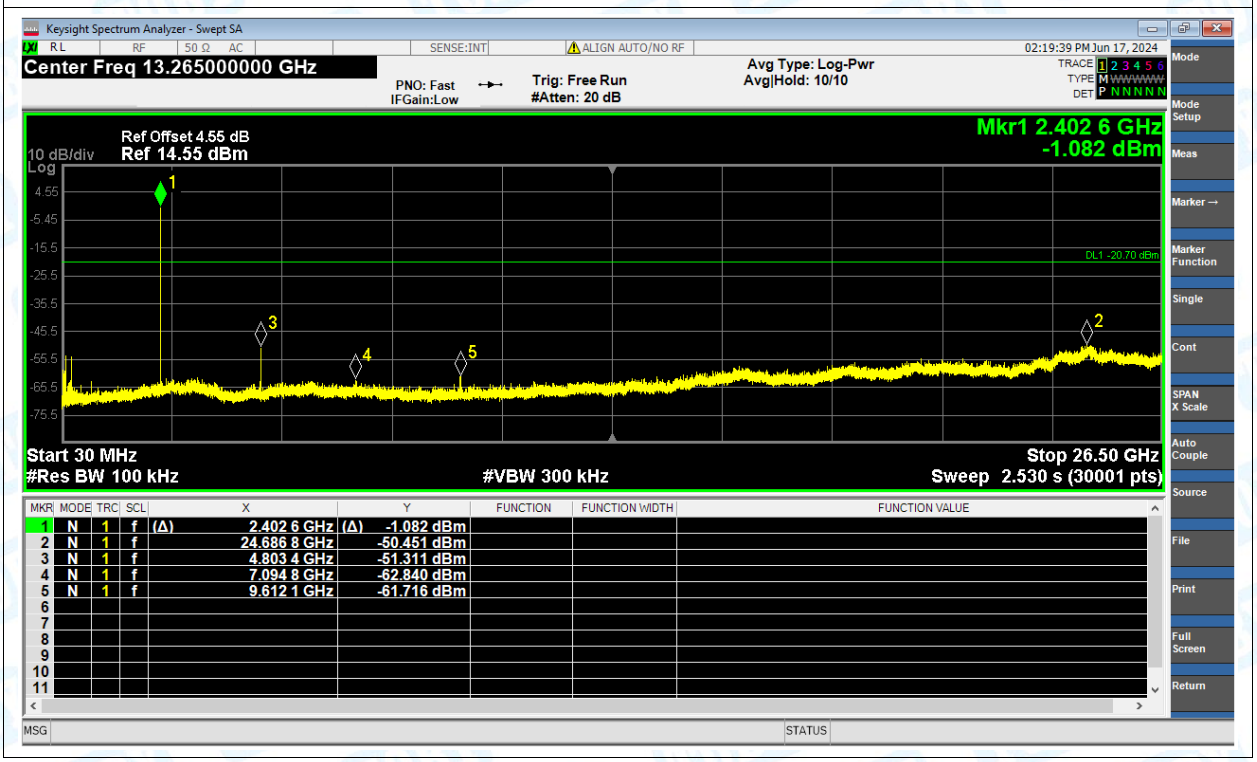
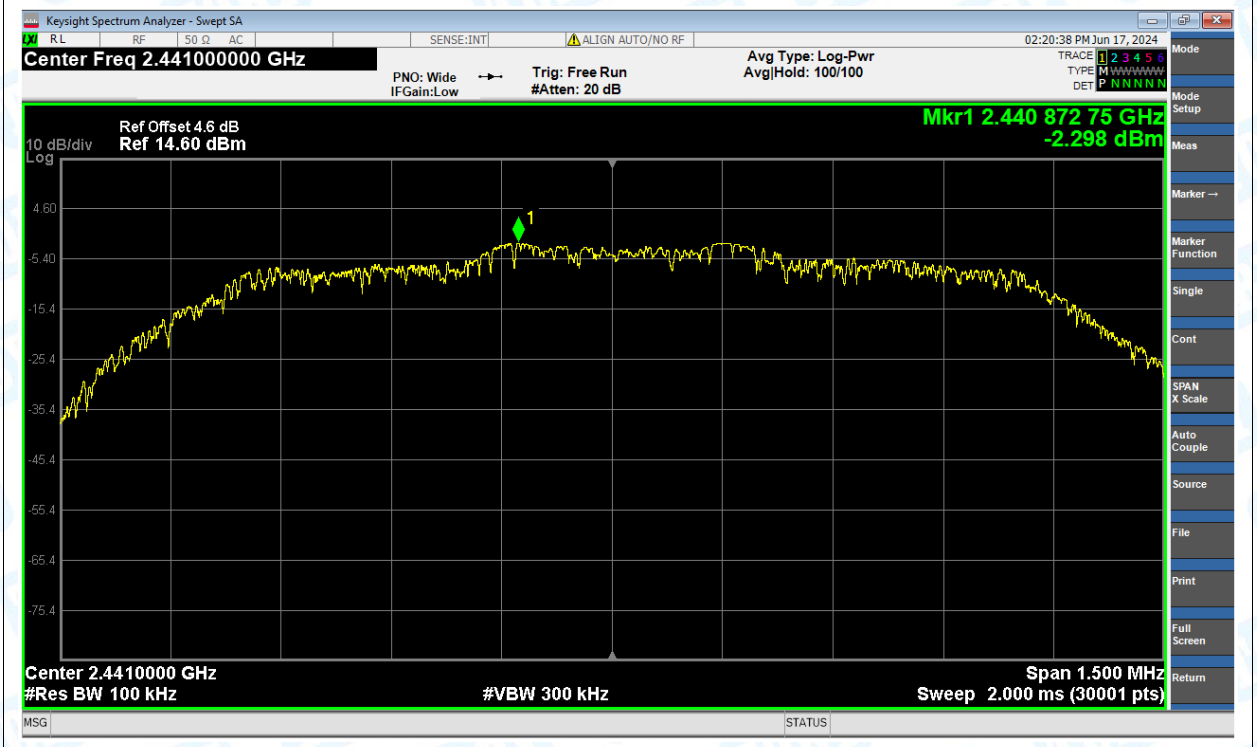


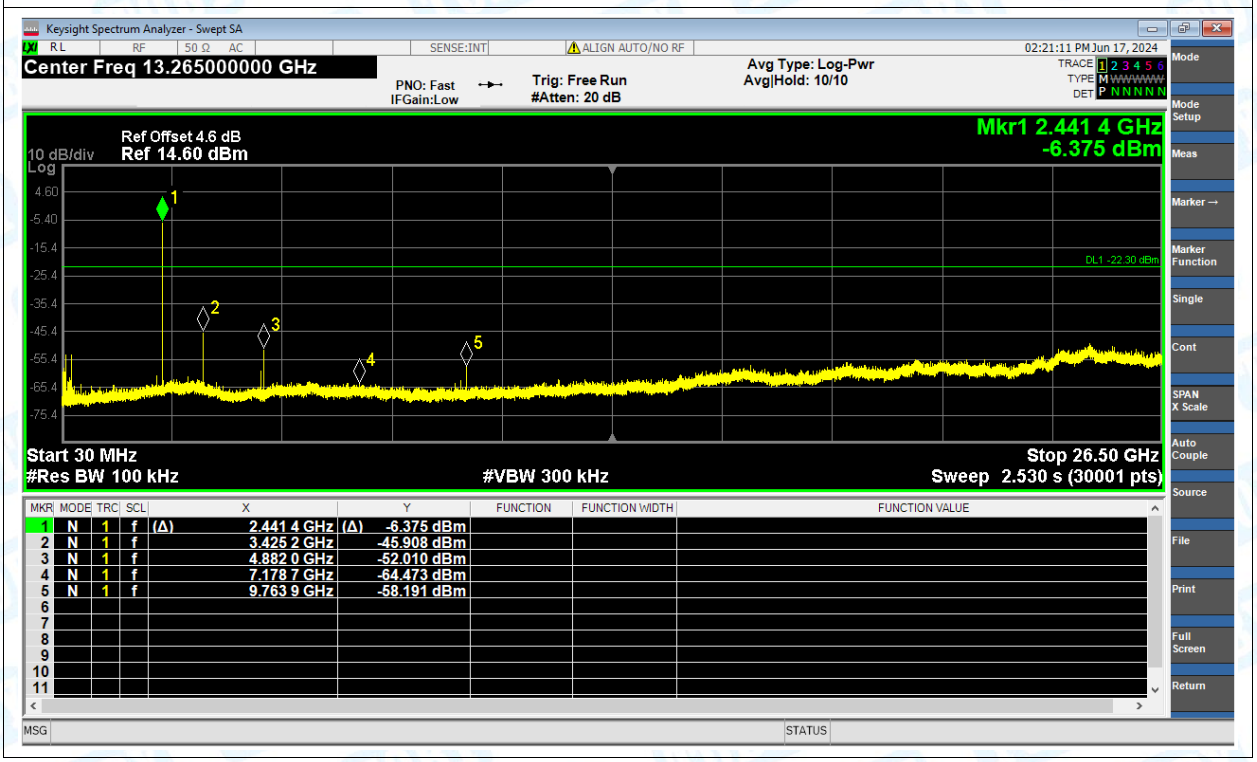
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



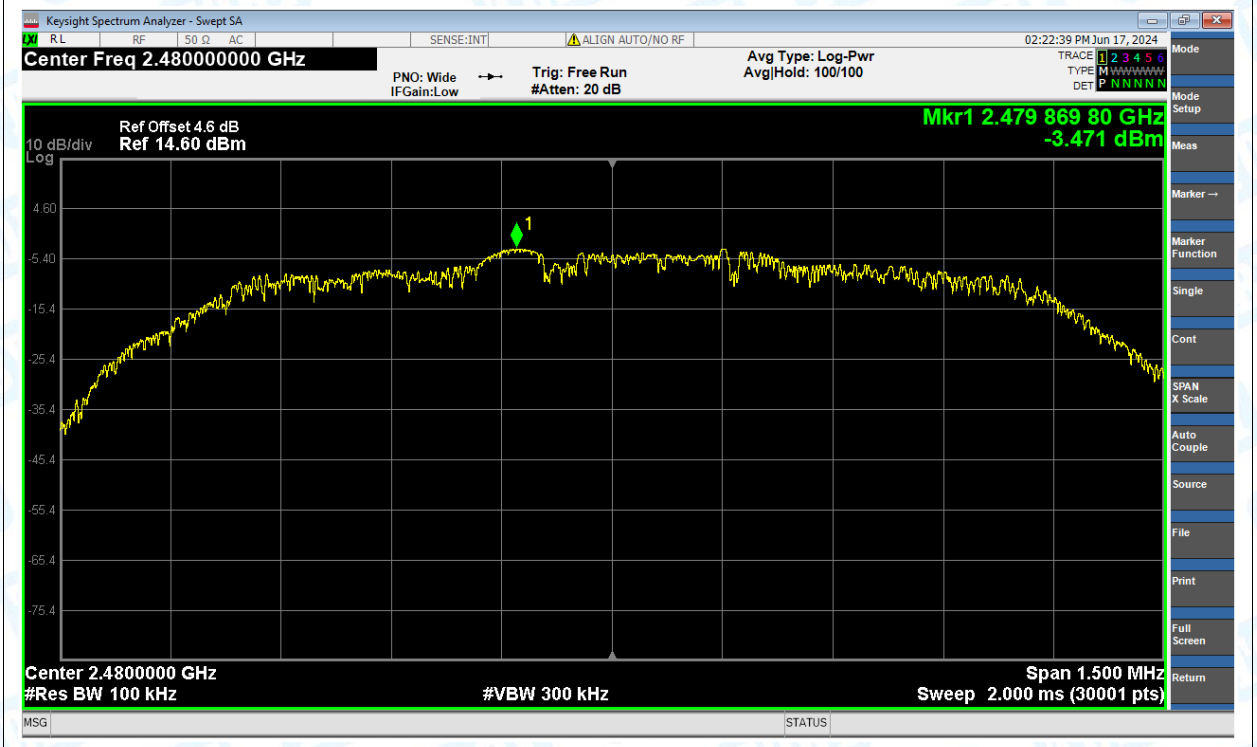
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



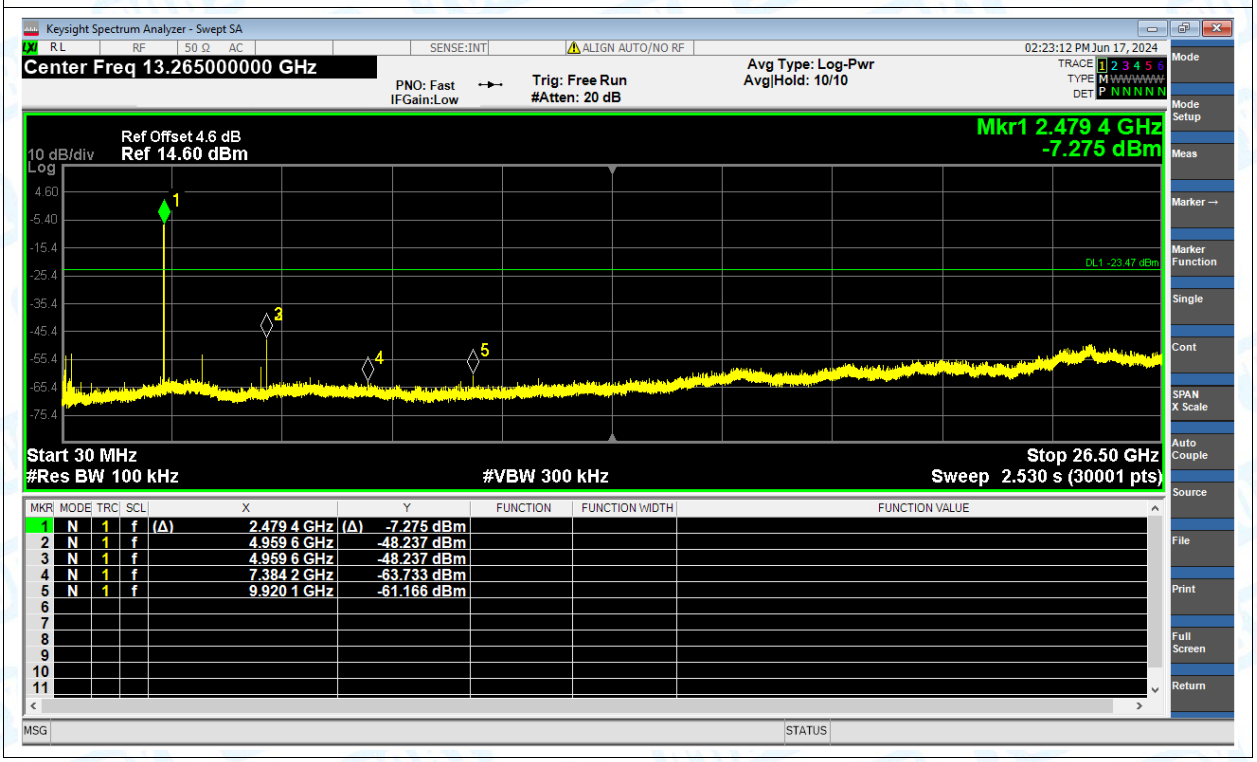
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



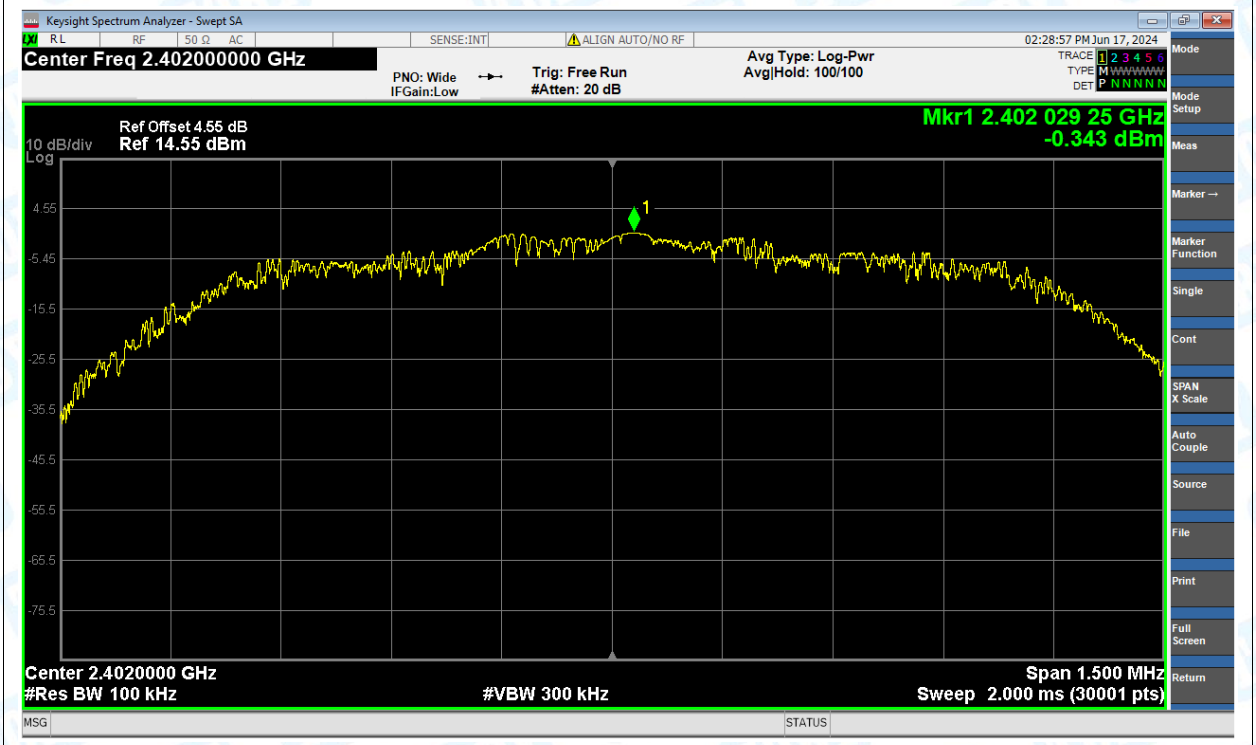
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



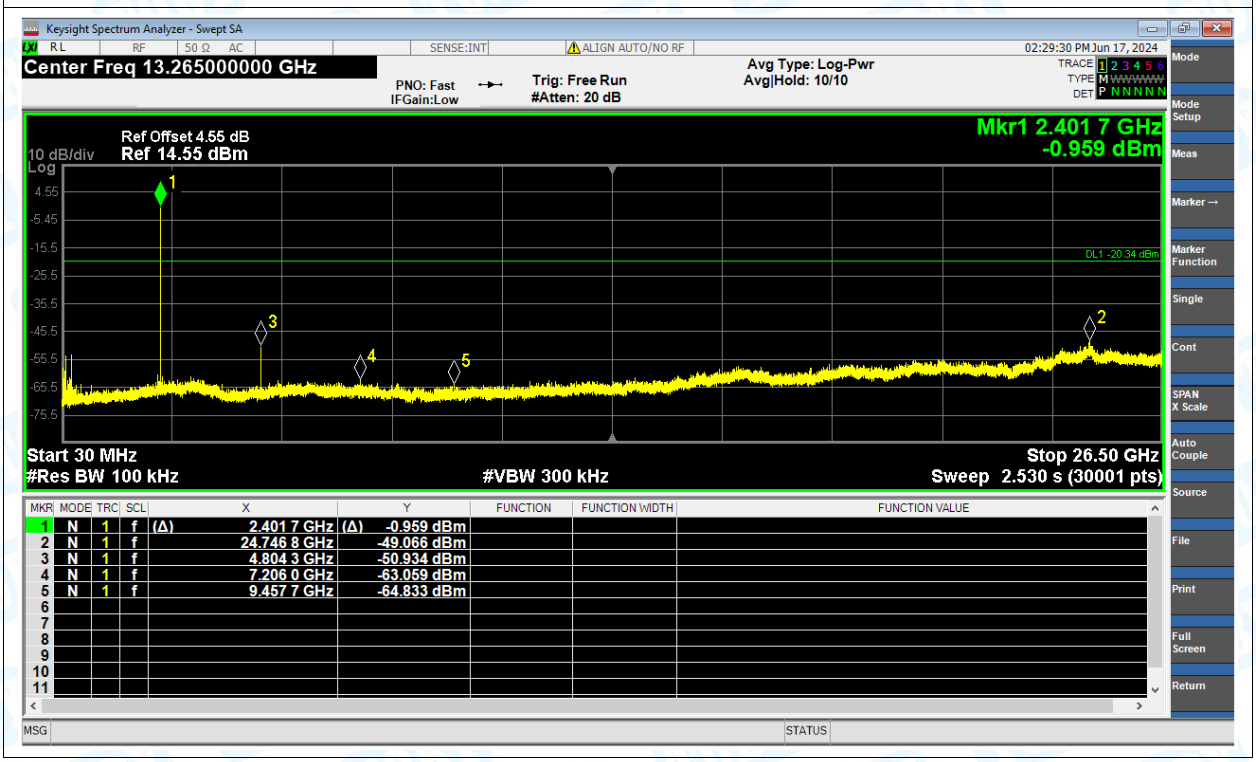
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



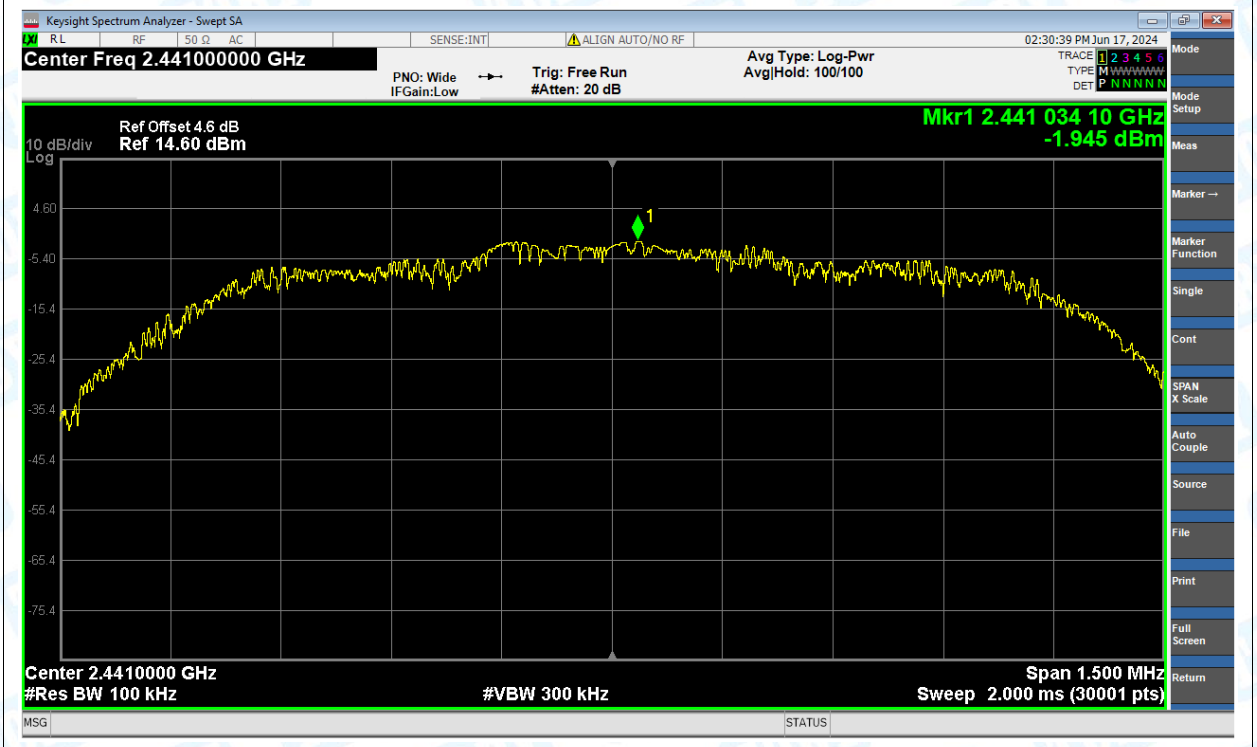
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



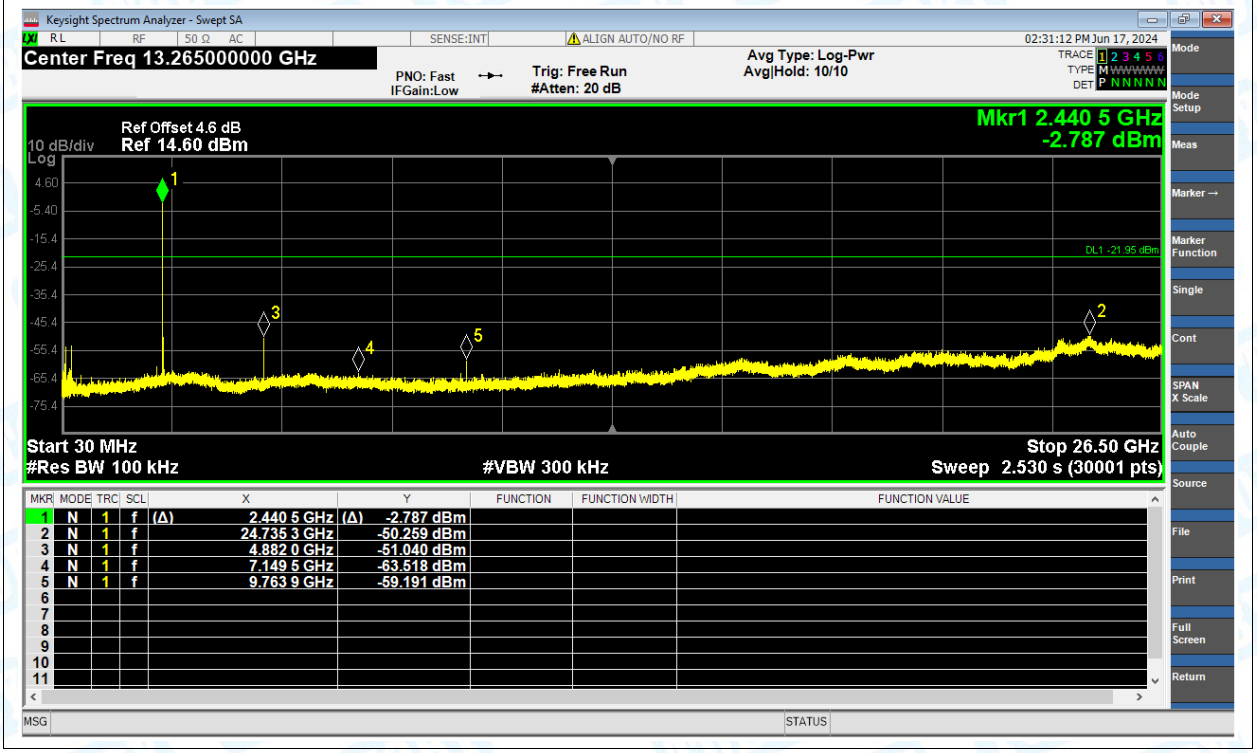
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



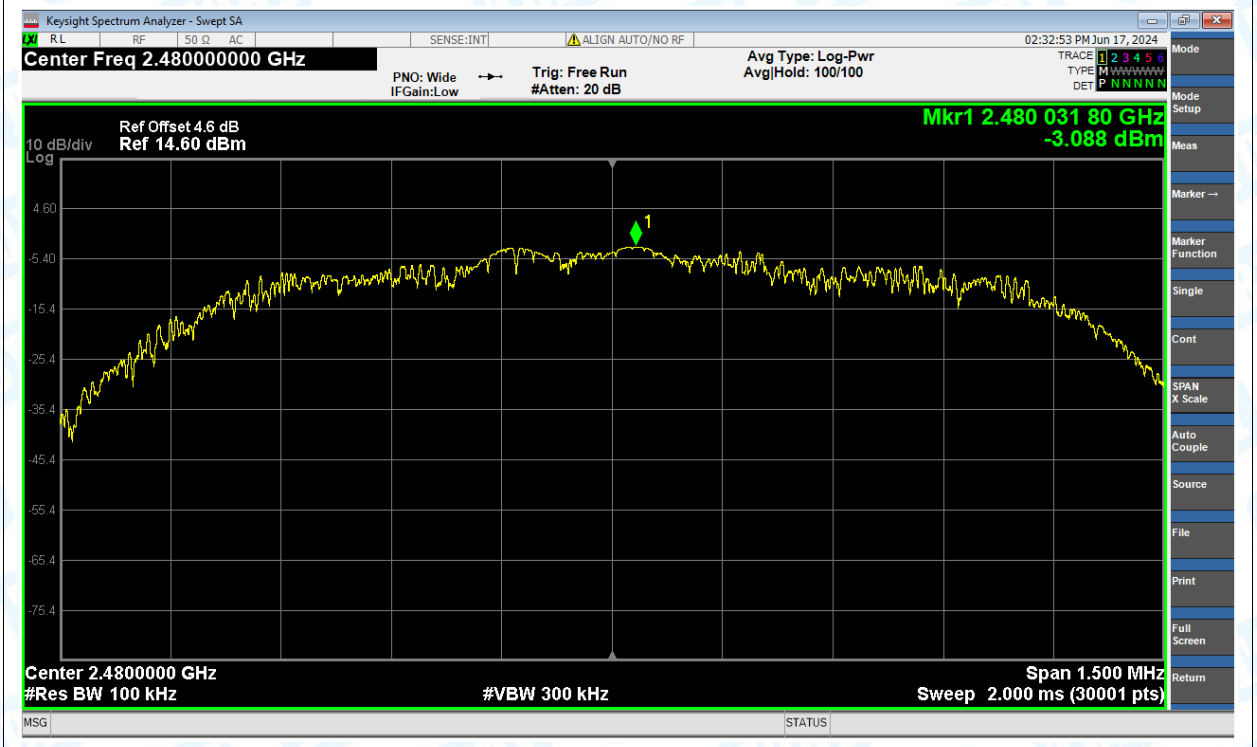
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



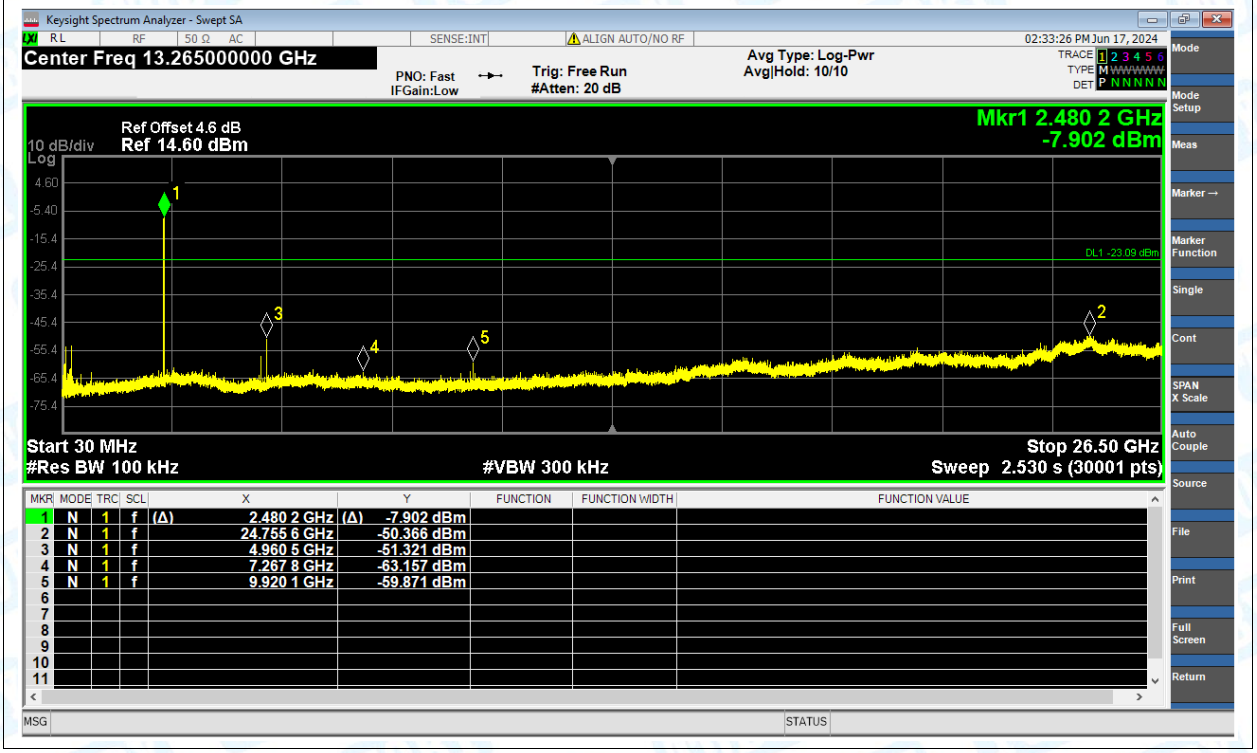
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

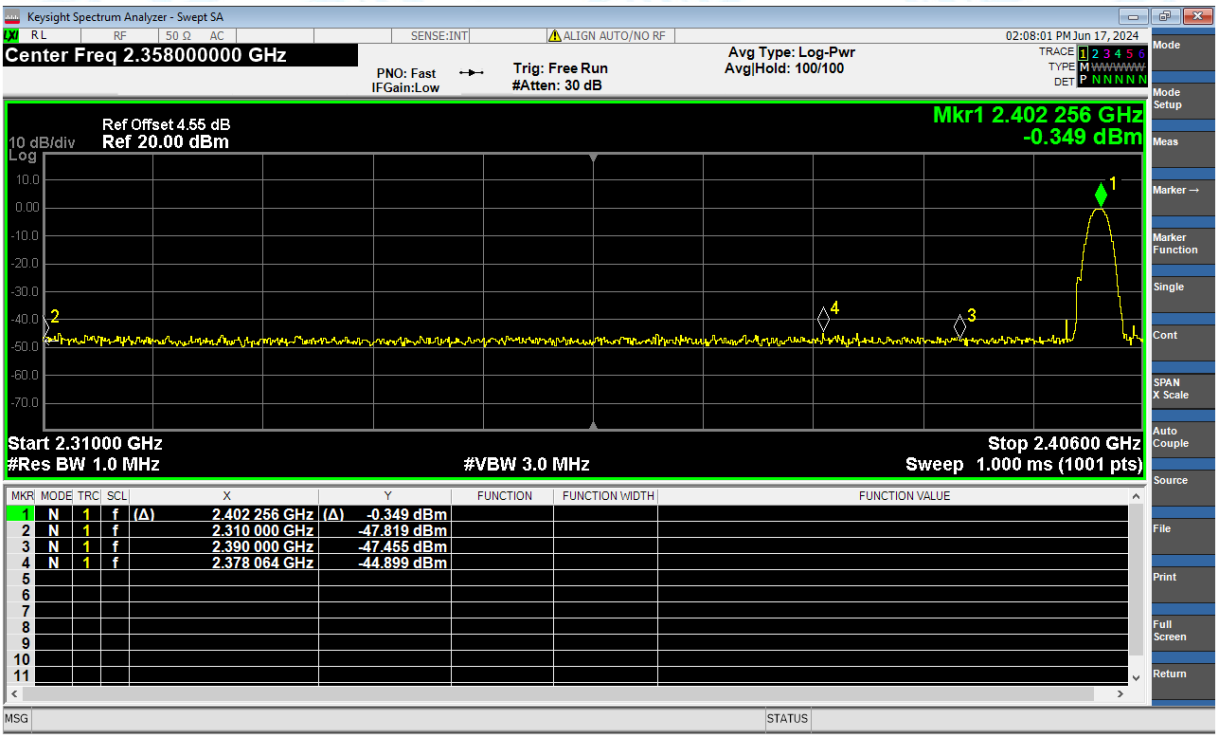


8. Restrict Band

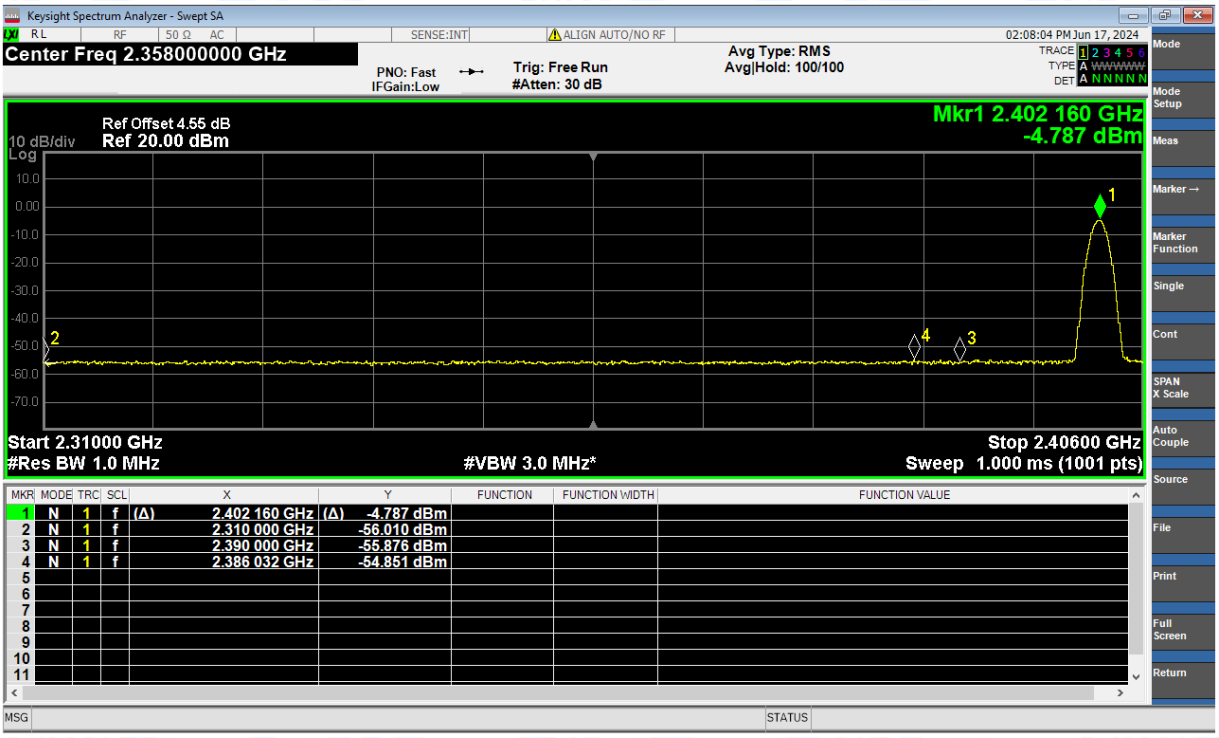
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.82	2	-	49.44	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.01	2	4.95	46.2	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2378.064	-44.9	2	-	52.36	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2386.032	-54.85	2	4.95	47.36	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.46	2	-	49.8	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.88	2	4.95	46.33	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.12	2	-	51.14	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.25	2	4.95	46.96	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2492.152	-44.26	2	-	53	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2489.296	-54.61	2	4.95	47.6	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.97	2	-	50.29	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.1	2	4.95	47.11	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.33	2	-	49.93	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.62	2	4.84	46.48	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2311.728	-44.29	2	-	52.97	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2337.648	-54.86	2	4.84	47.24	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-48.4	2	-	48.86	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.03	2	4.84	46.07	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.48	2	-	49.78	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.74	2	4.84	46.36	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2495.728	-43.92	2	-	53.34	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2490.904	-54.7	2	4.84	47.4	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.4	2	-	49.86	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.38	2	4.84	46.72	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.13	2	-	49.13	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.79	2	4.84	46.31	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2386.128	-44.95	2	-	52.31	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2384.88	-54.8	2	4.84	47.3	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-46.09	2	-	51.17	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.9	2	4.84	46.2	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.66	2	-	49.6	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.23	2	4.84	46.87	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2497.024	-44.34	2	-	52.92	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2486.632	-54.49	2	4.84	47.61	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.74	2	-	49.52	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.1	2	4.84	47	Average	54	Pass

Test Graphs

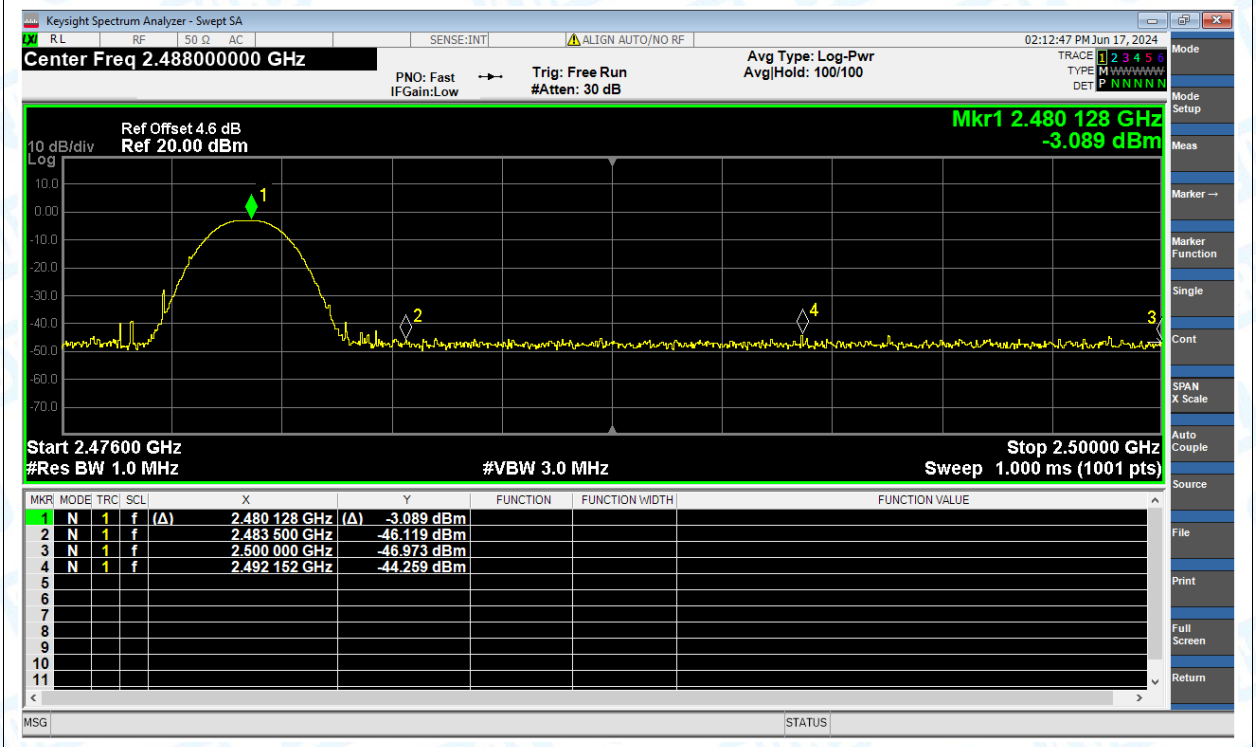
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



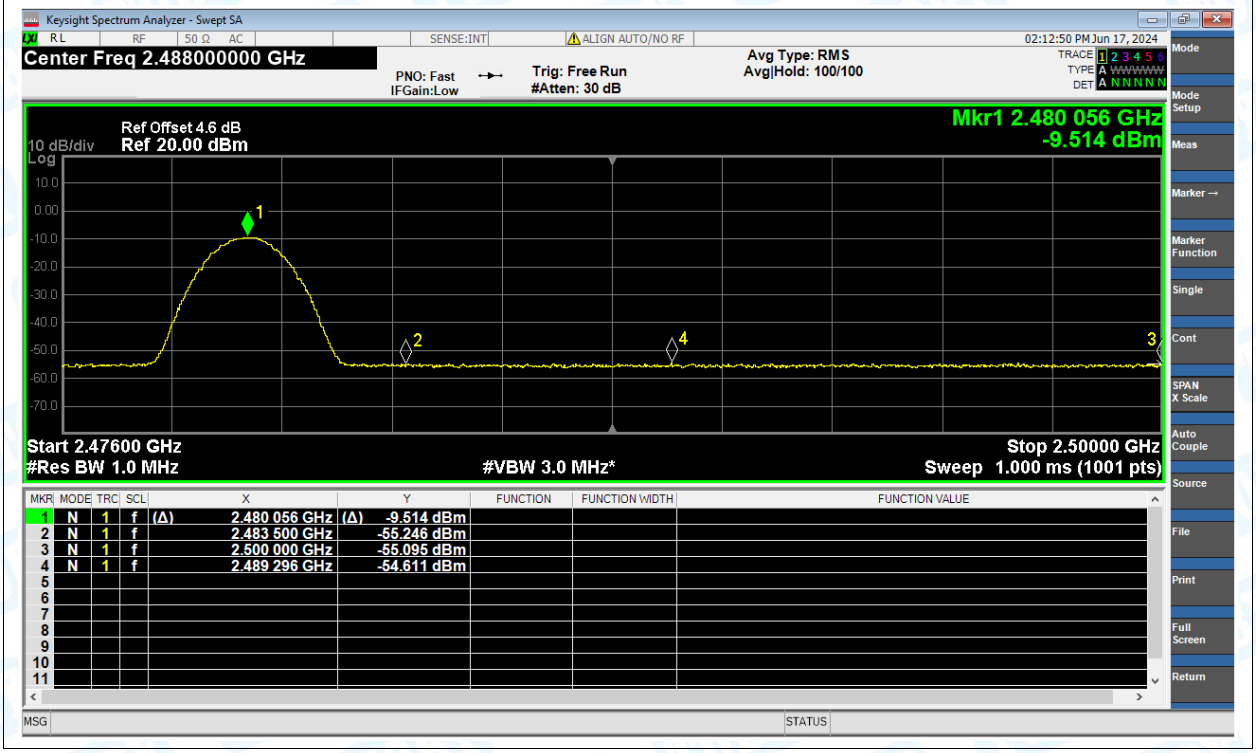
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



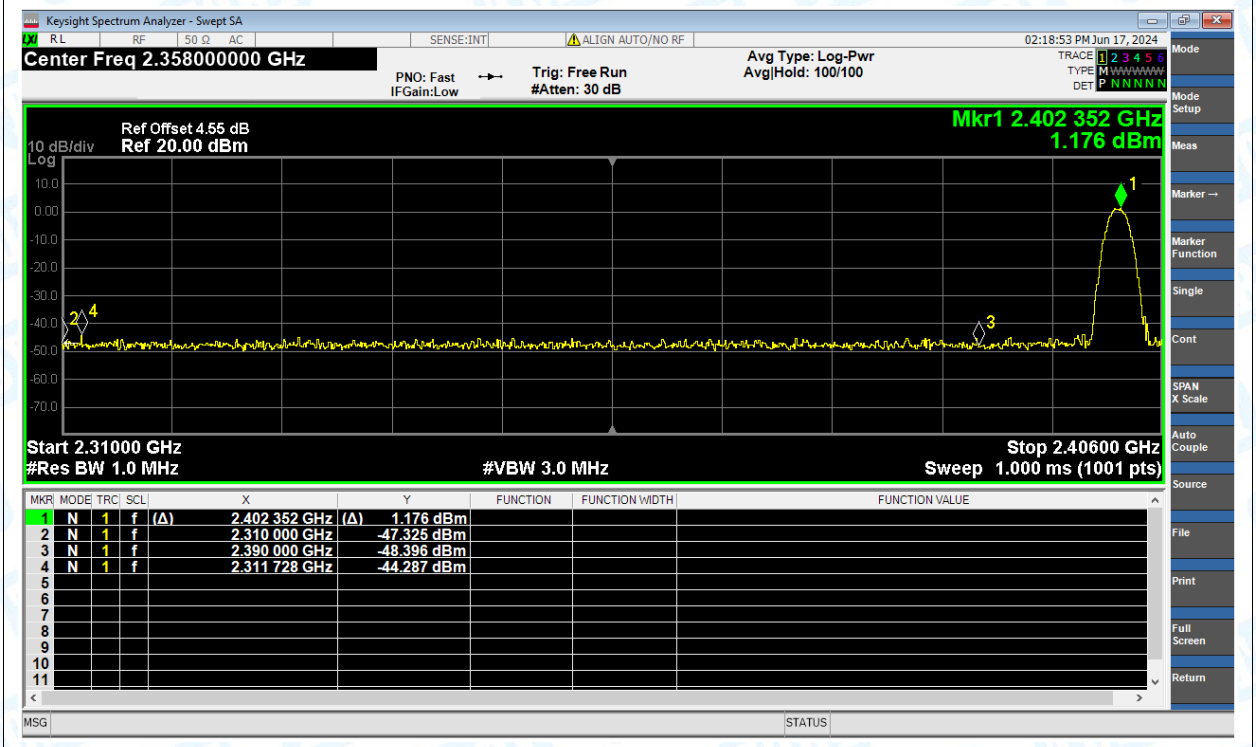
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



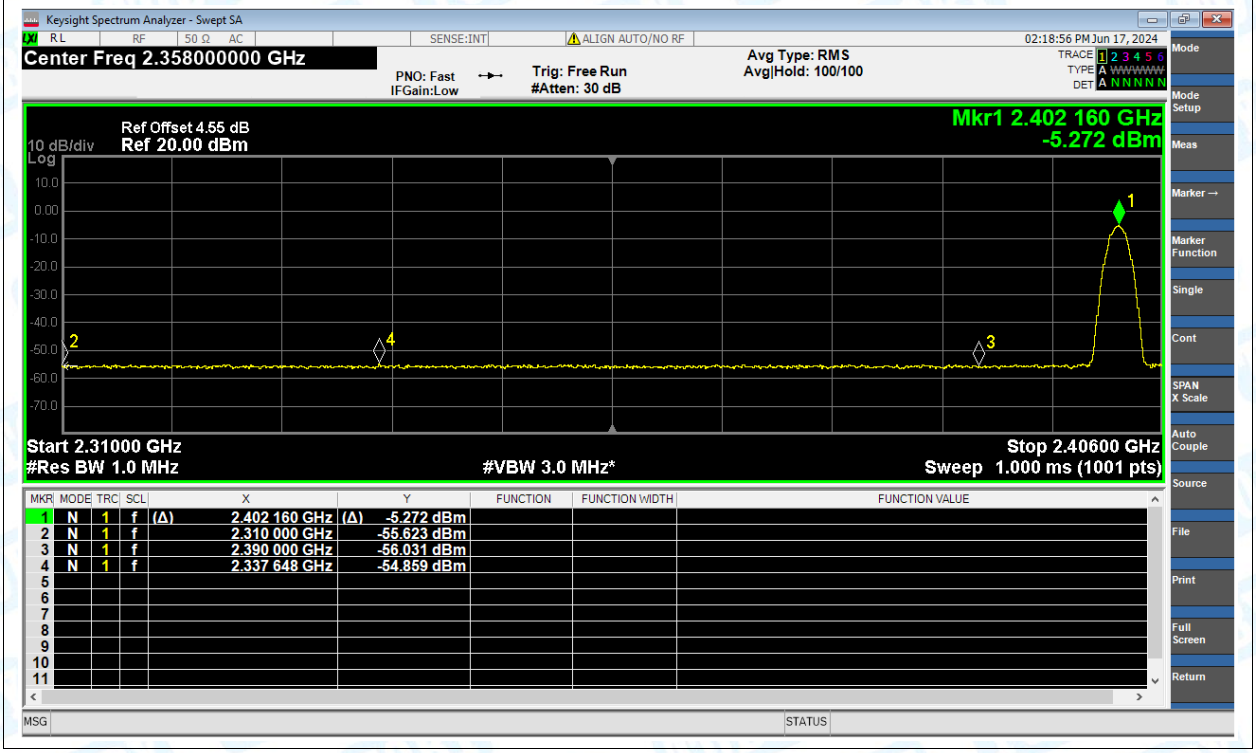
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



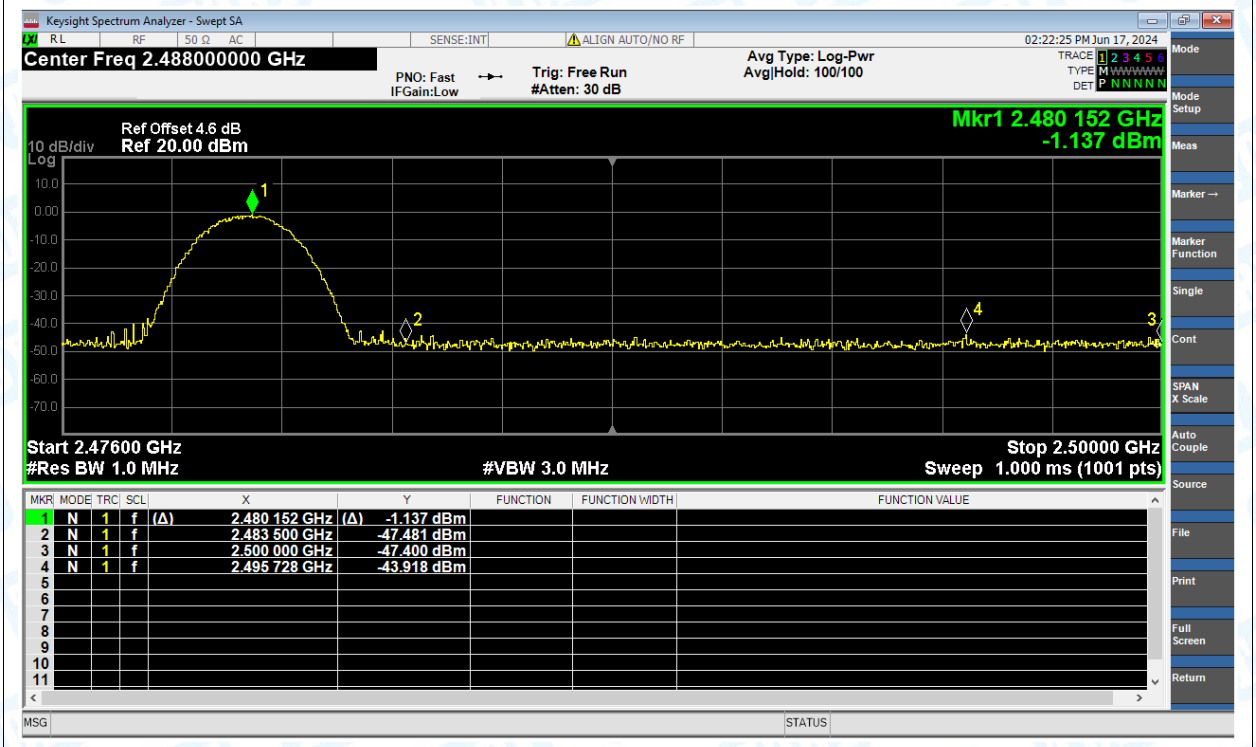
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



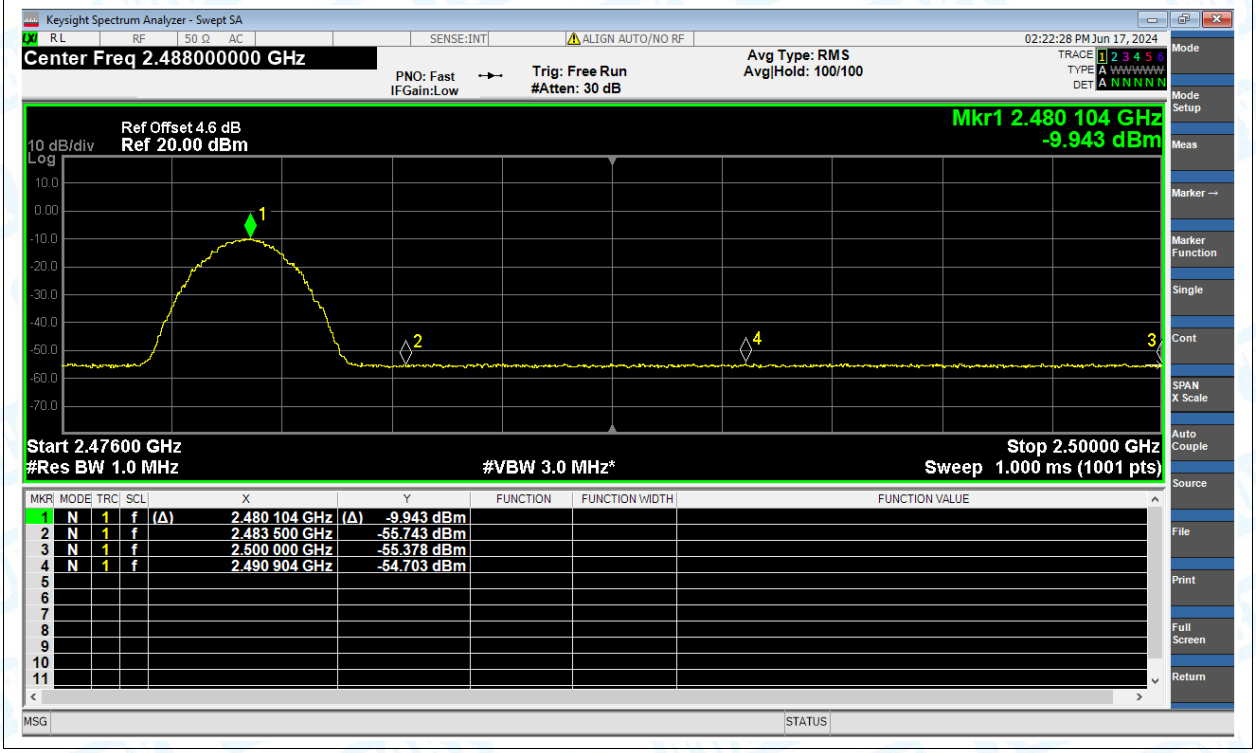
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



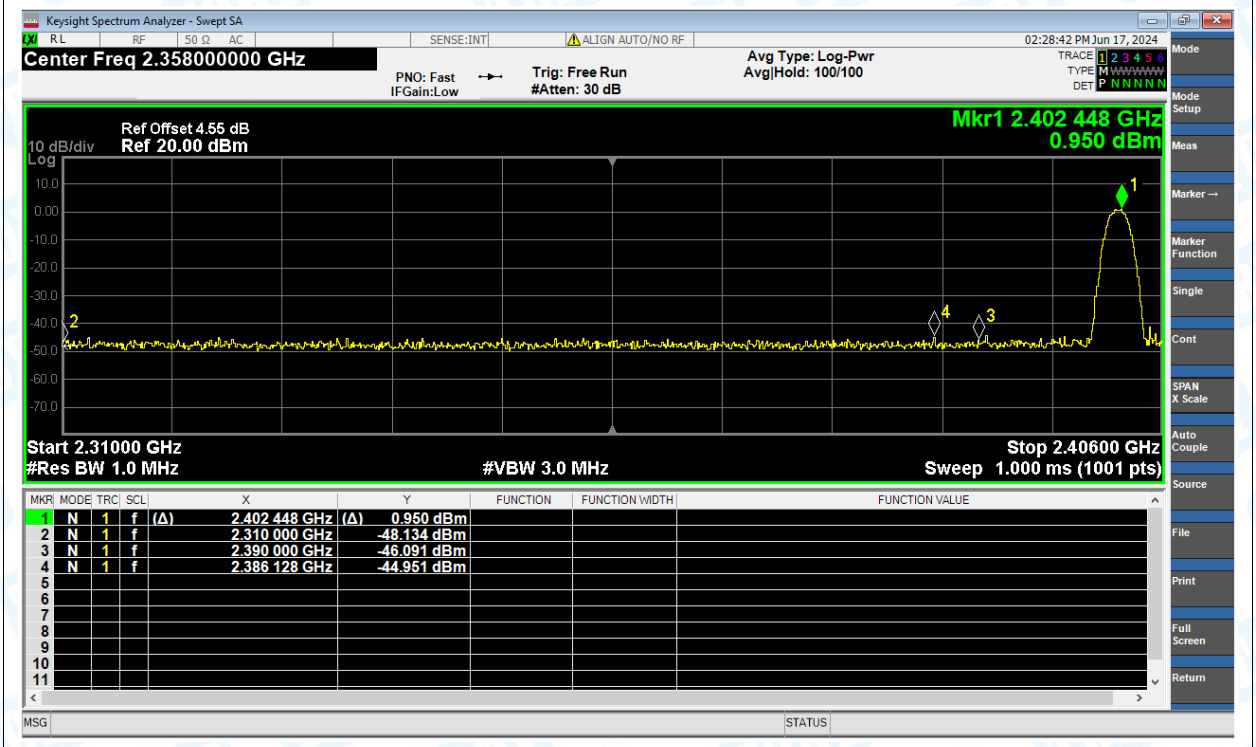
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



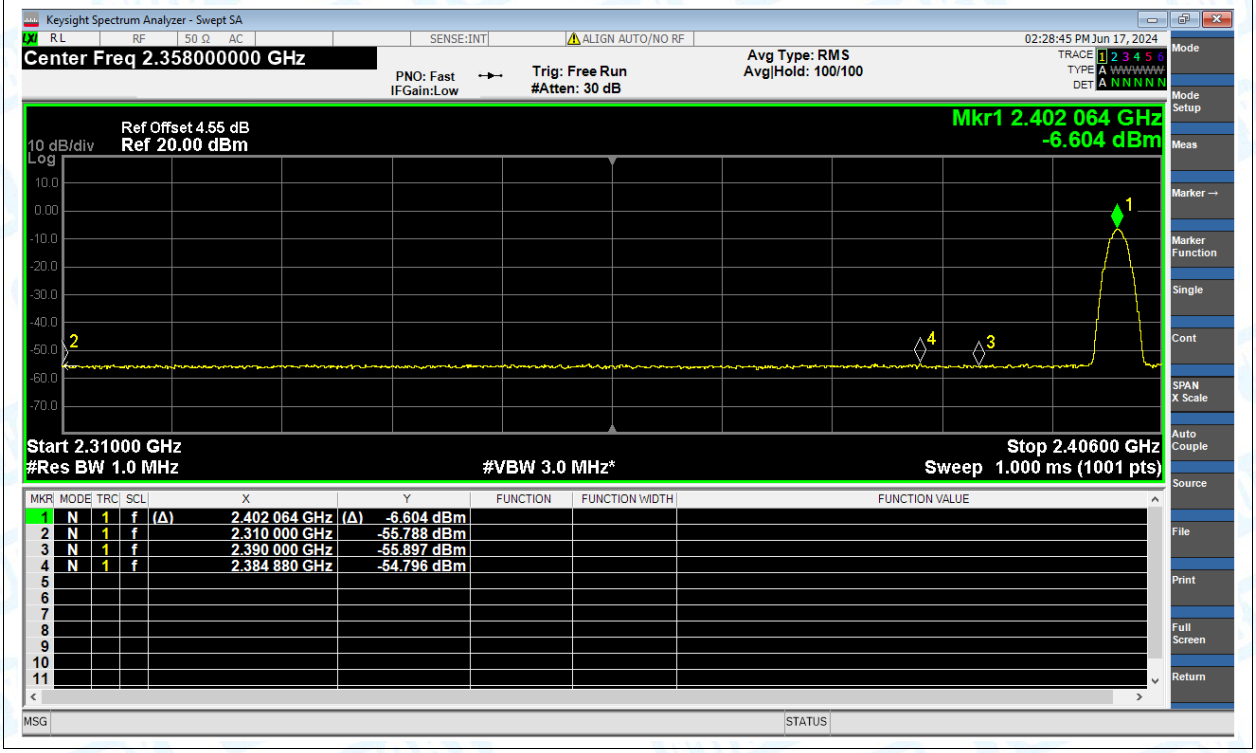
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



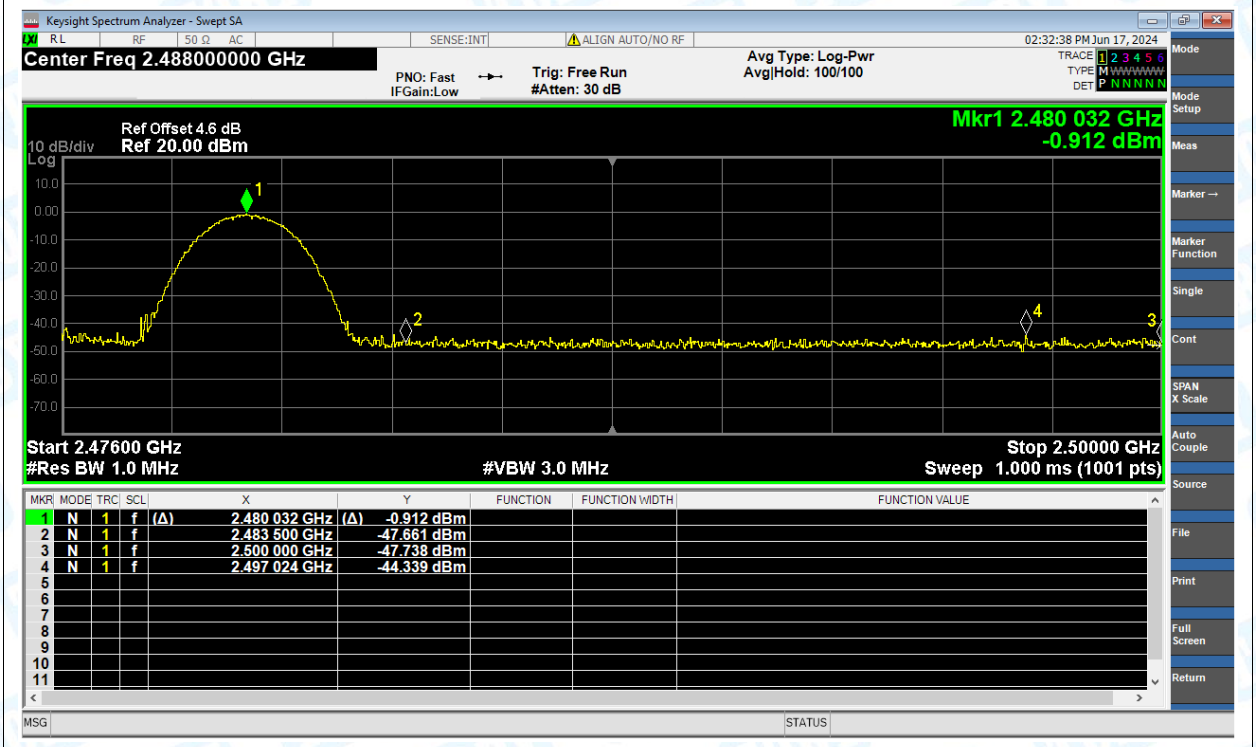
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



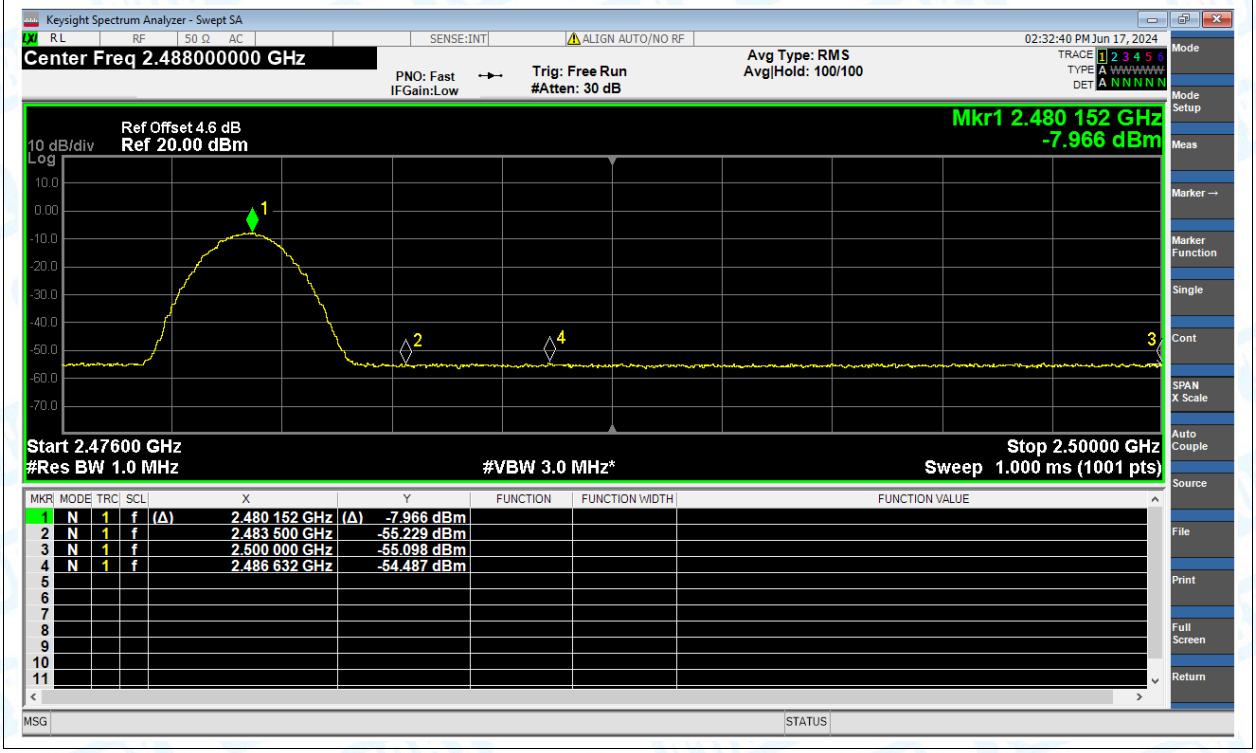
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

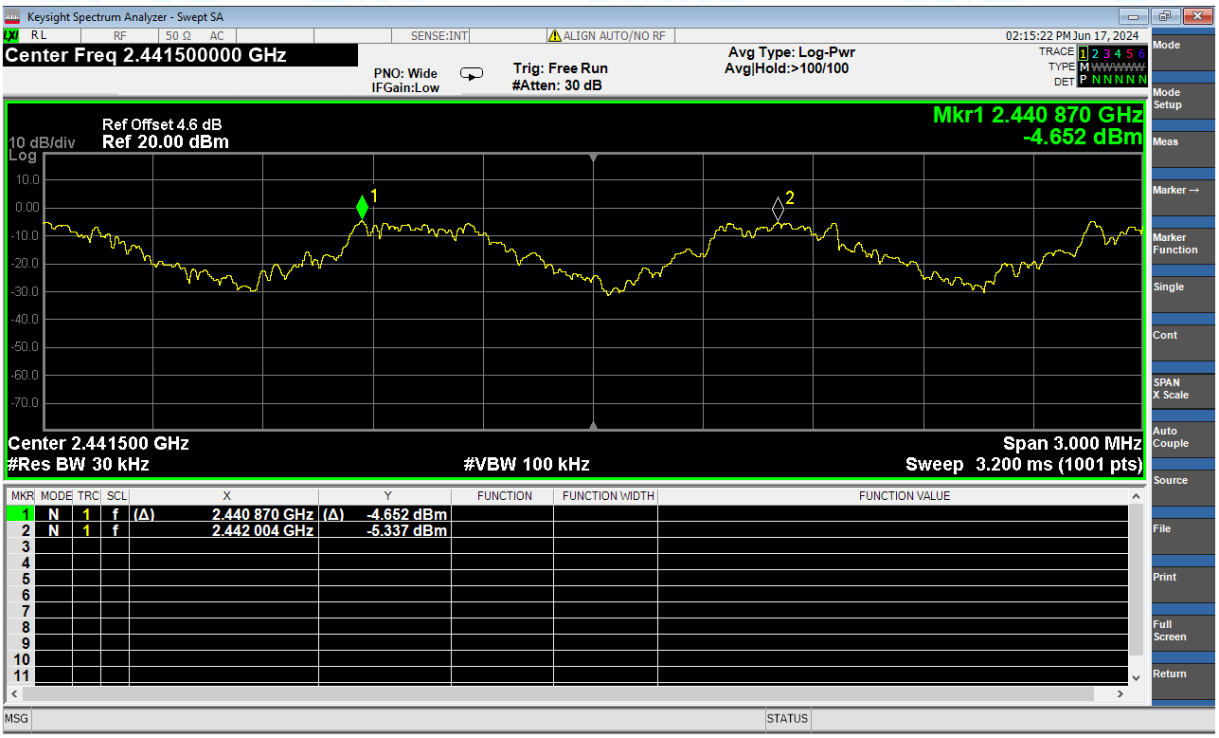


9. Carrier Frequencies Separation

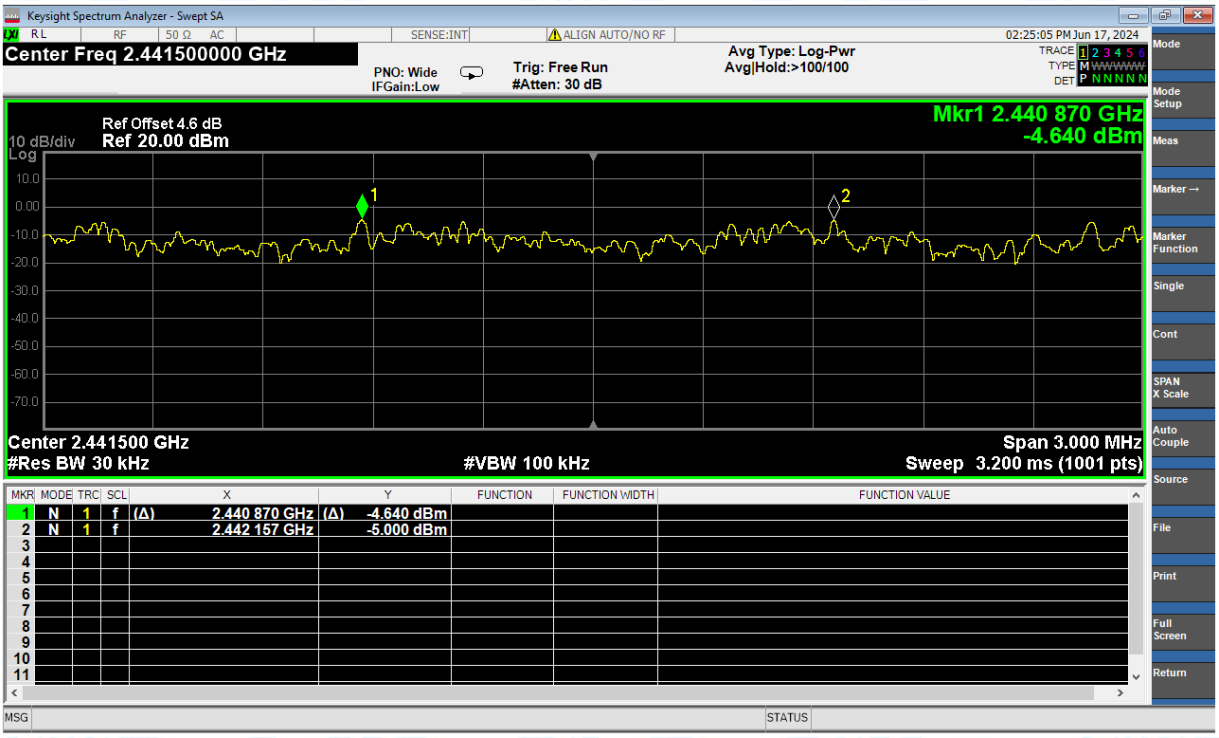
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.87	2442.004	1.134	0.587	Pass
NVNT	2-DH1	Ant1	2440.87	2442.157	1.287	0.853	Pass
NVNT	3-DH1	Ant1	2441.023	2442.04	1.017	0.833	Pass

Test Graphs

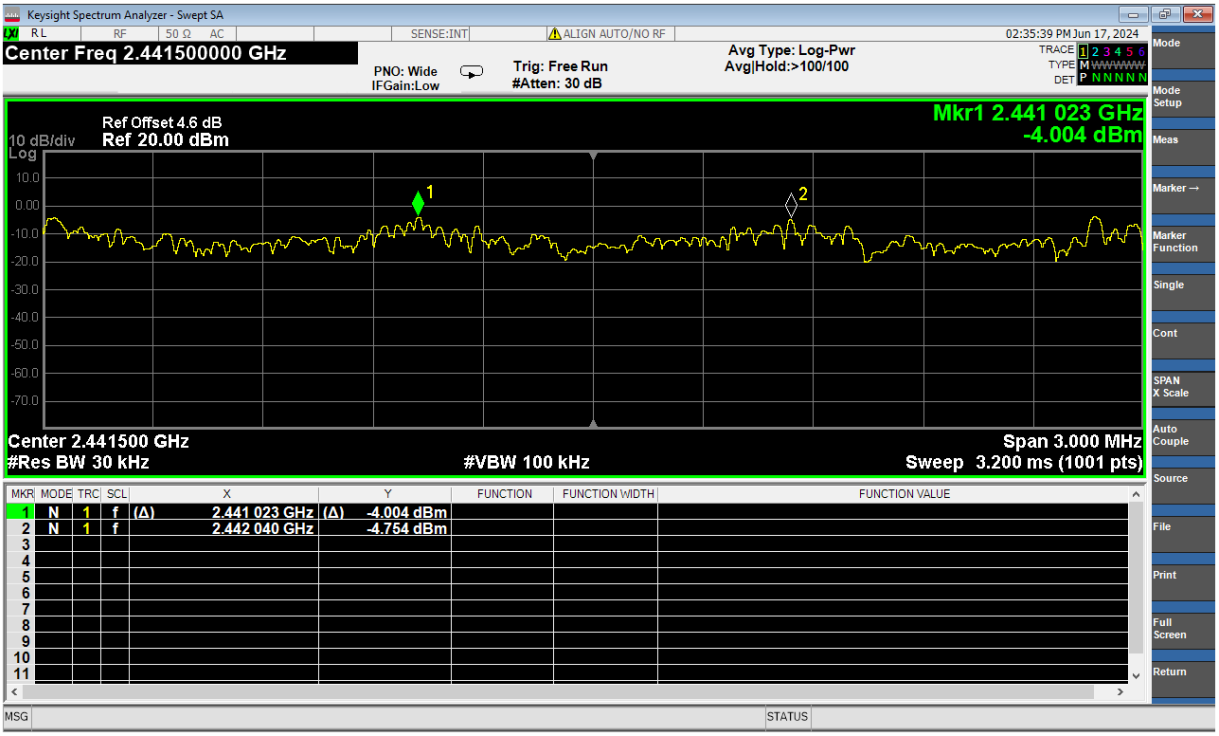
CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1

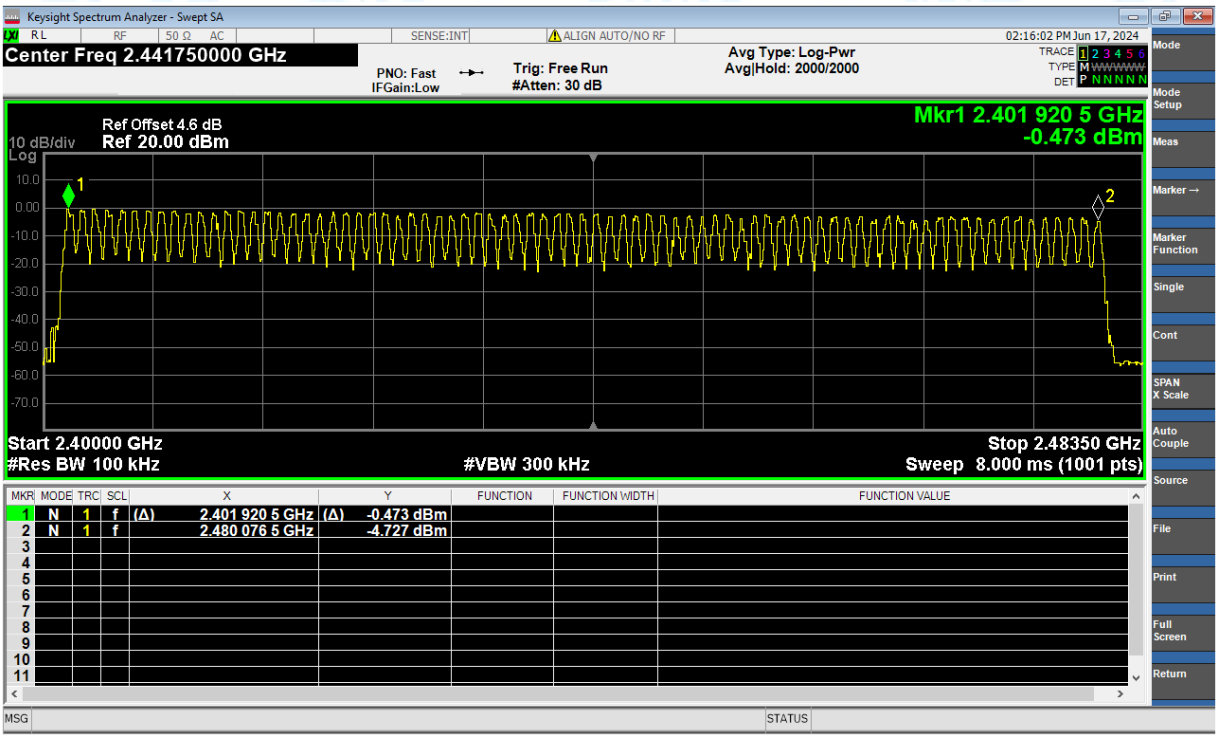


10. Number of Hopping Channel

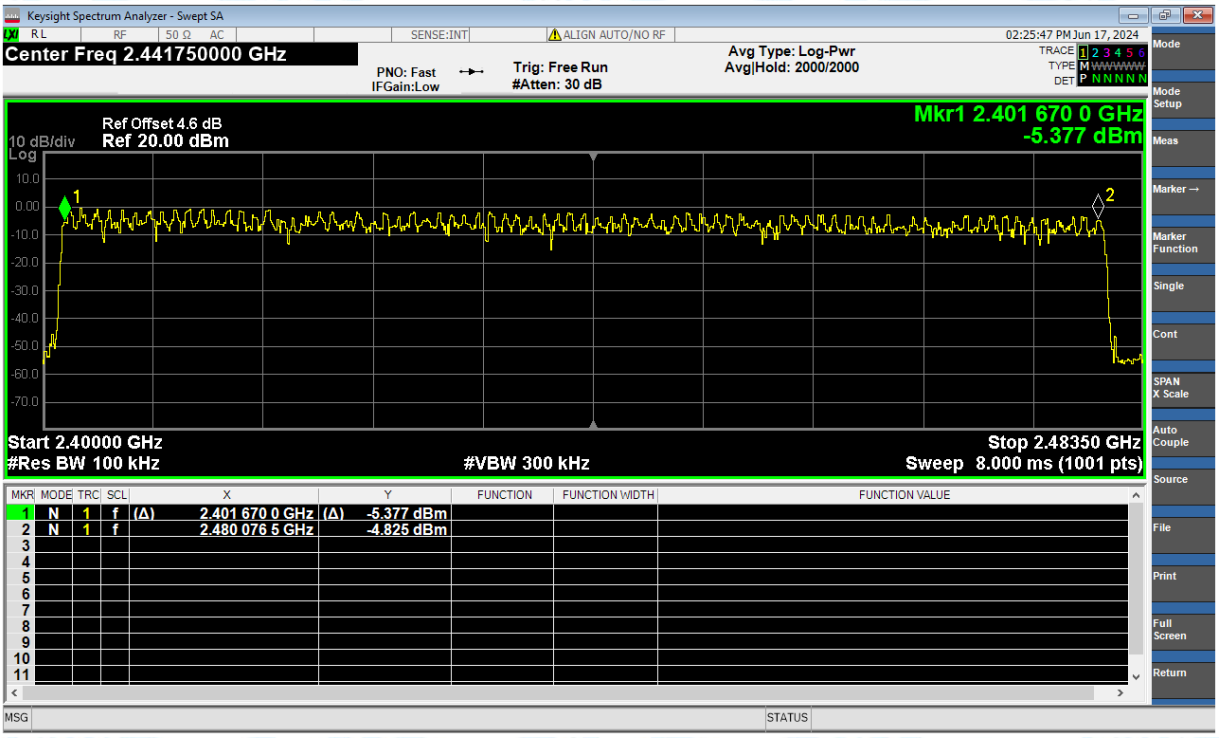
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

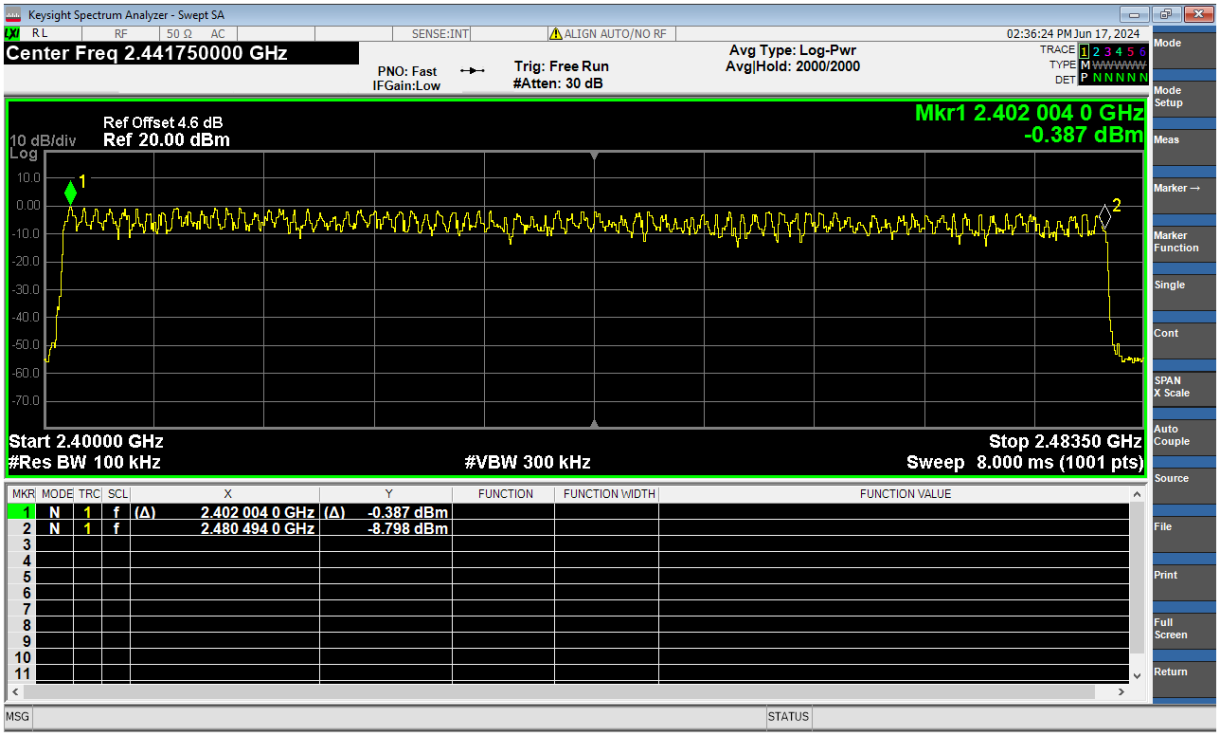
Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1

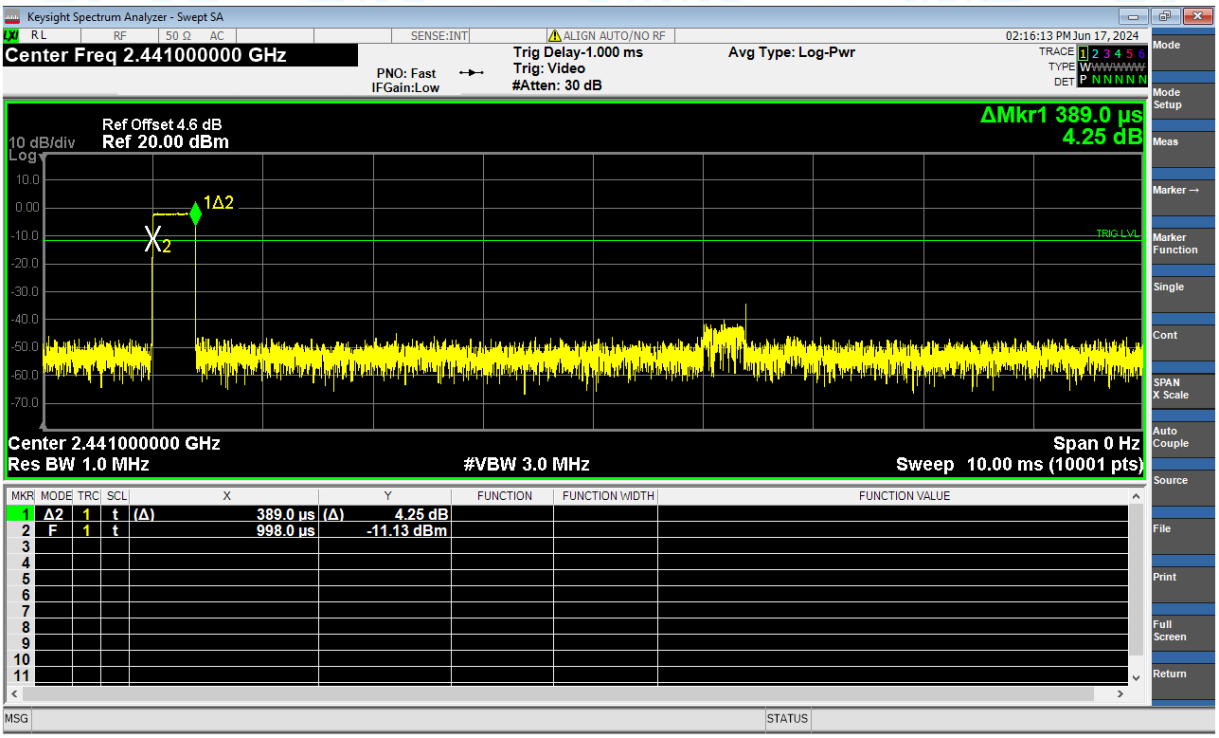


11. Dwell Time

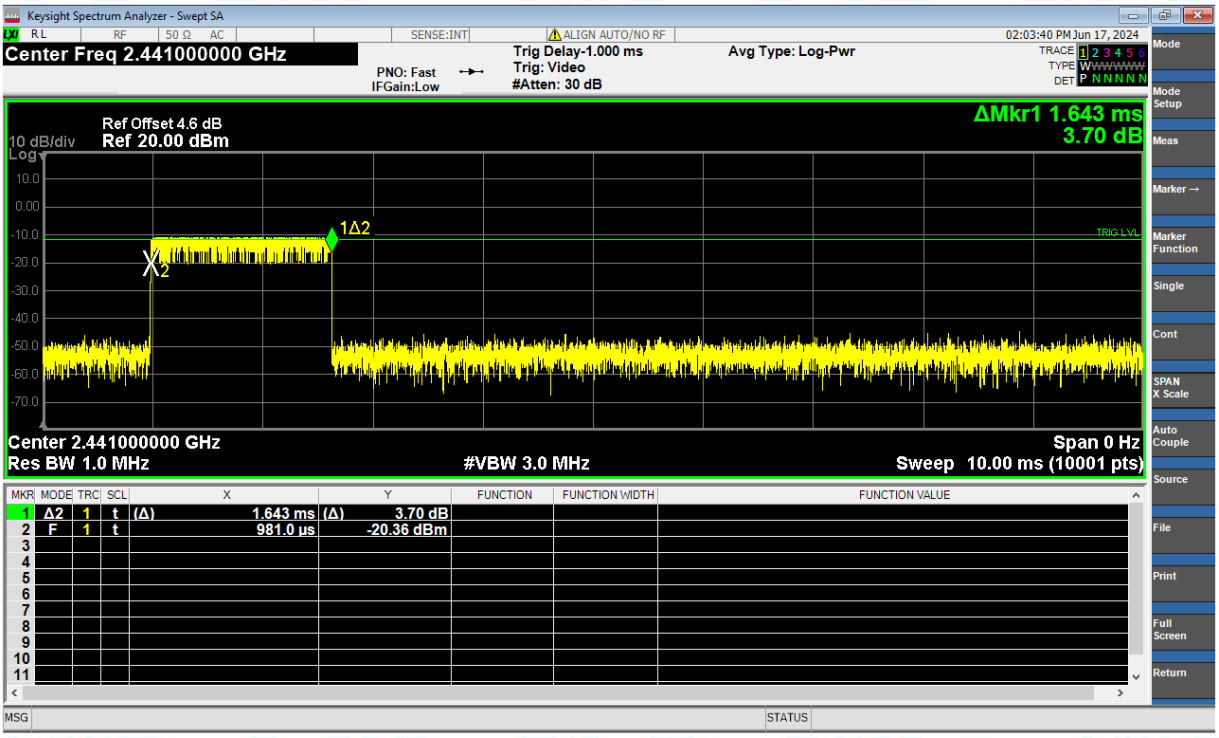
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.389	124.48	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.89	308.267	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.397	127.04	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.649	263.84	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.894	308.693	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.395	126.4	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.648	263.68	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.899	309.227	31600	400	Pass

Test Graphs

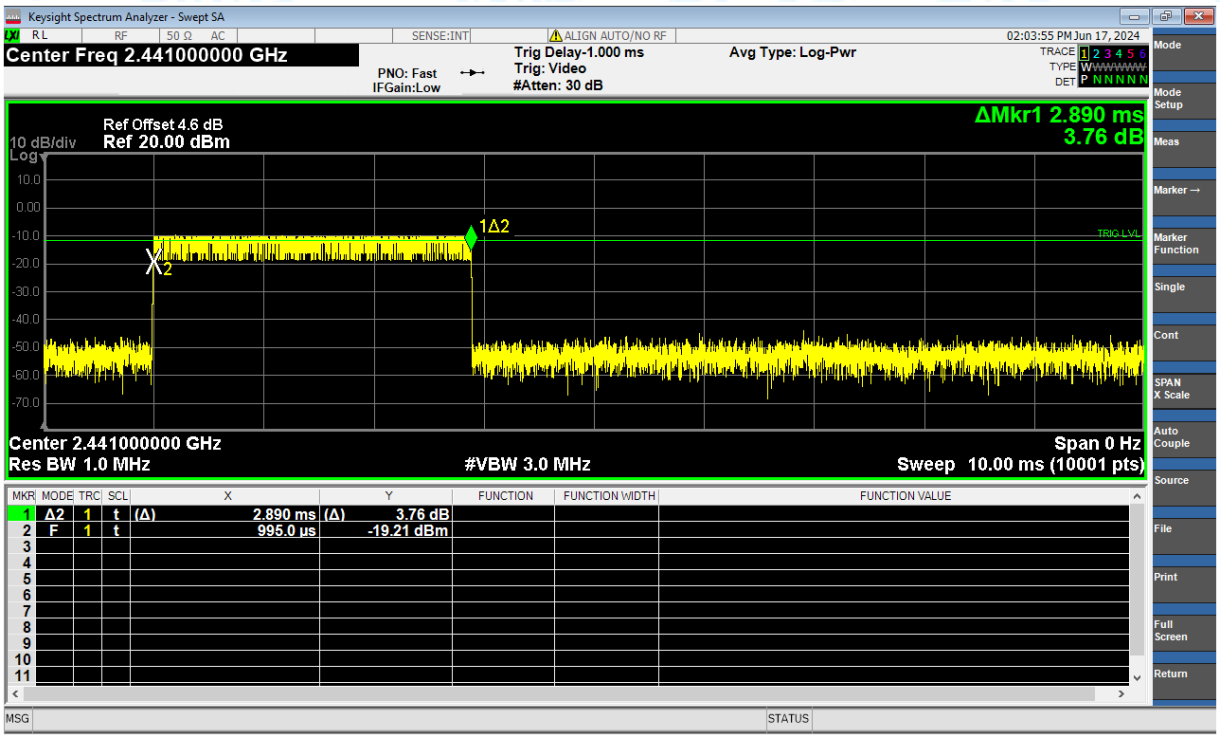
Dwell NVNT 1-DH1 2441MHz Ant1



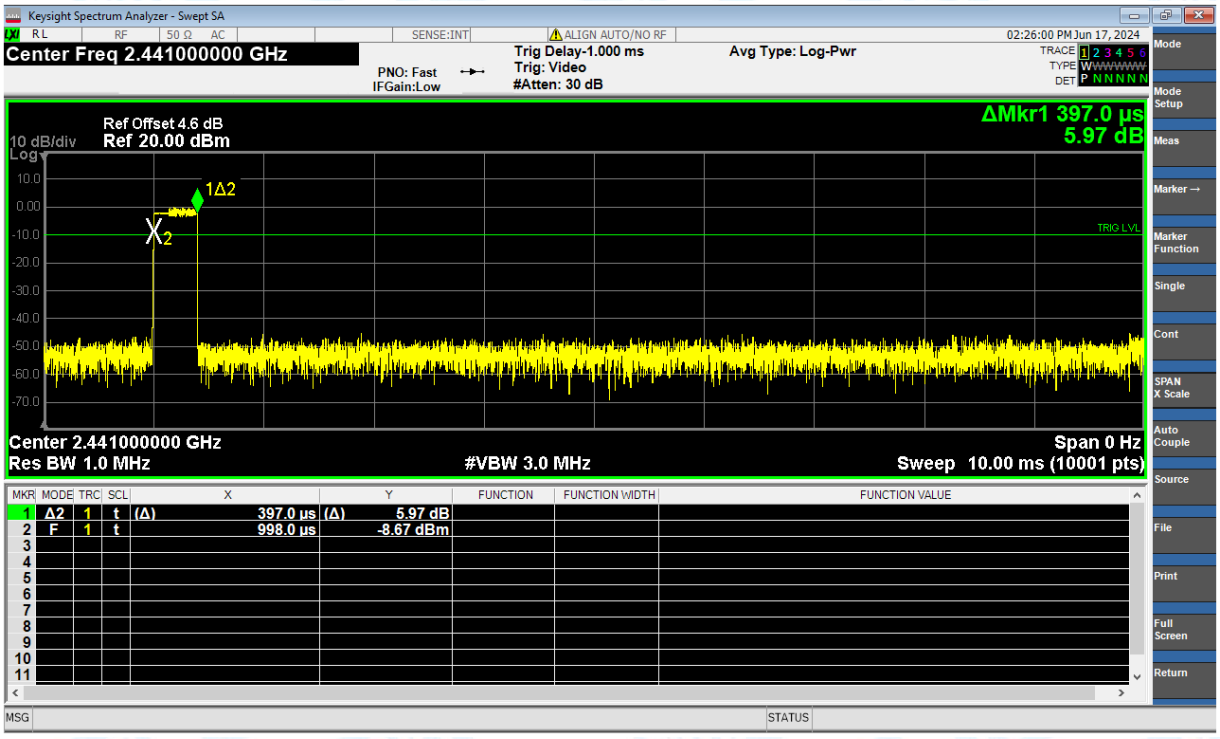
Dwell NVNT 1-DH3 2441MHz Ant1



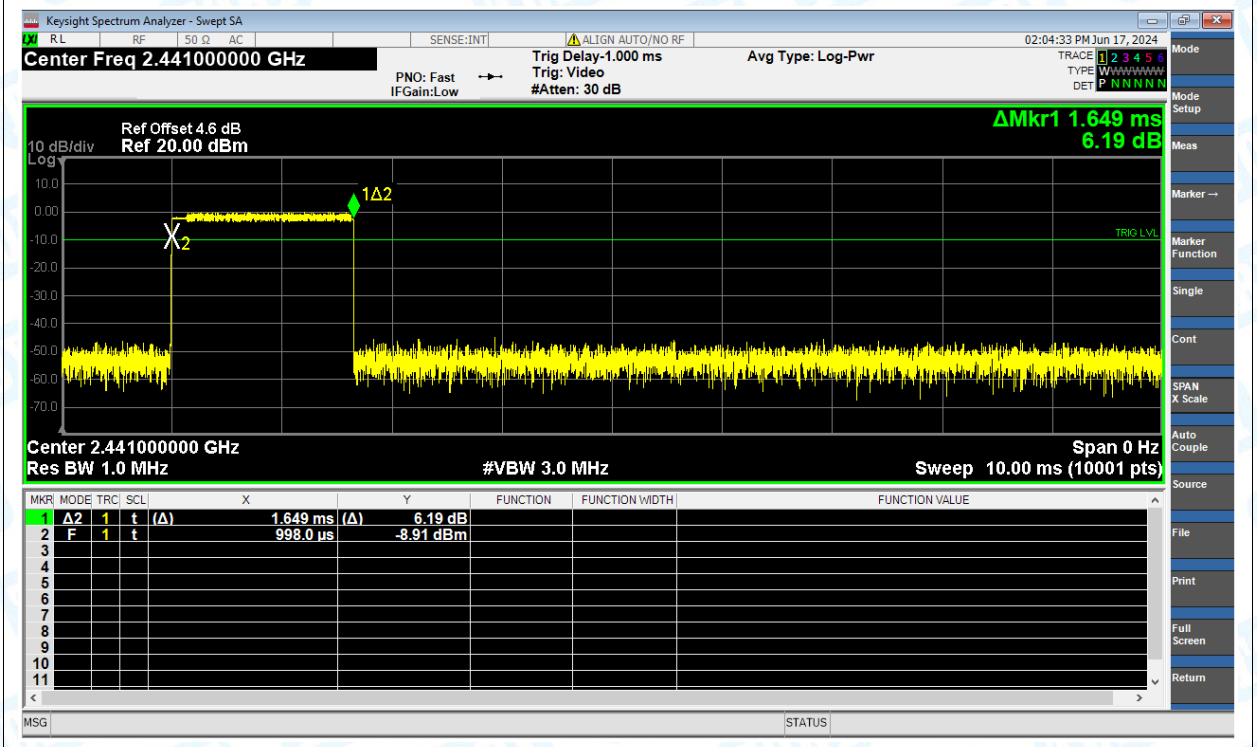
Dwell NVNT 1-DH5 2441MHz Ant1



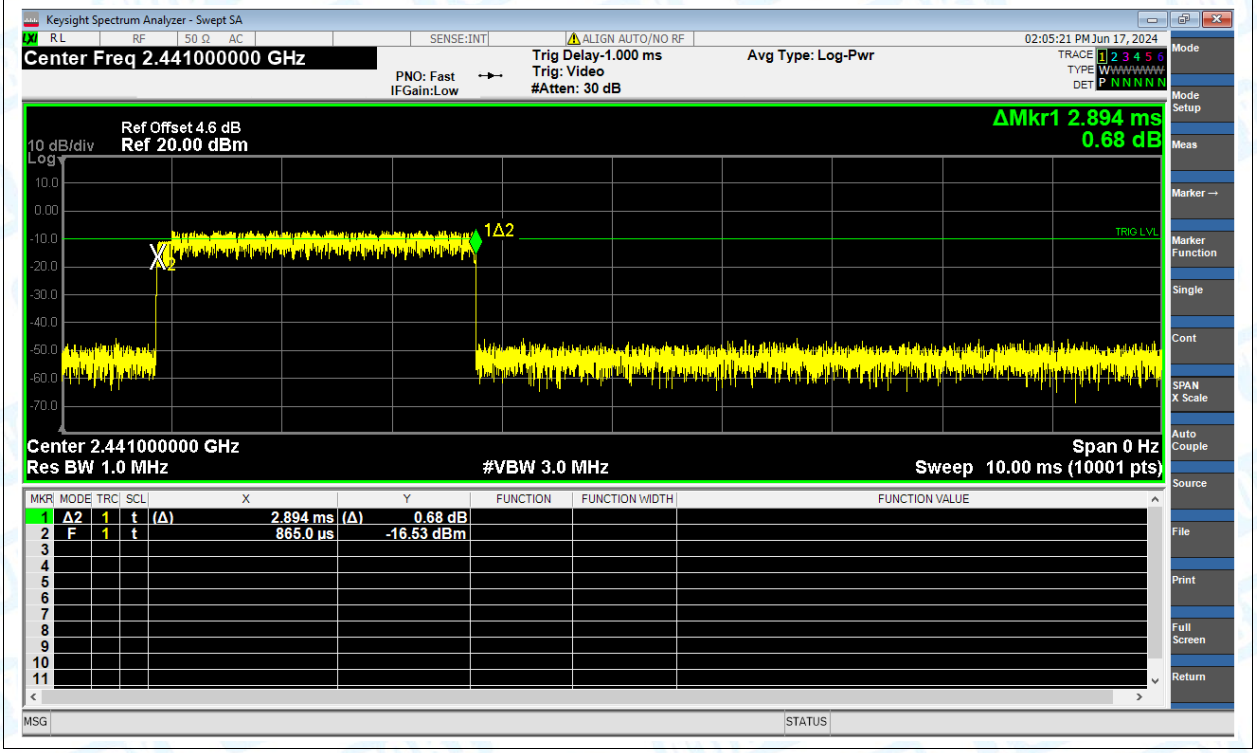
Dwell NVNT 2-DH1 2441MHz Ant1



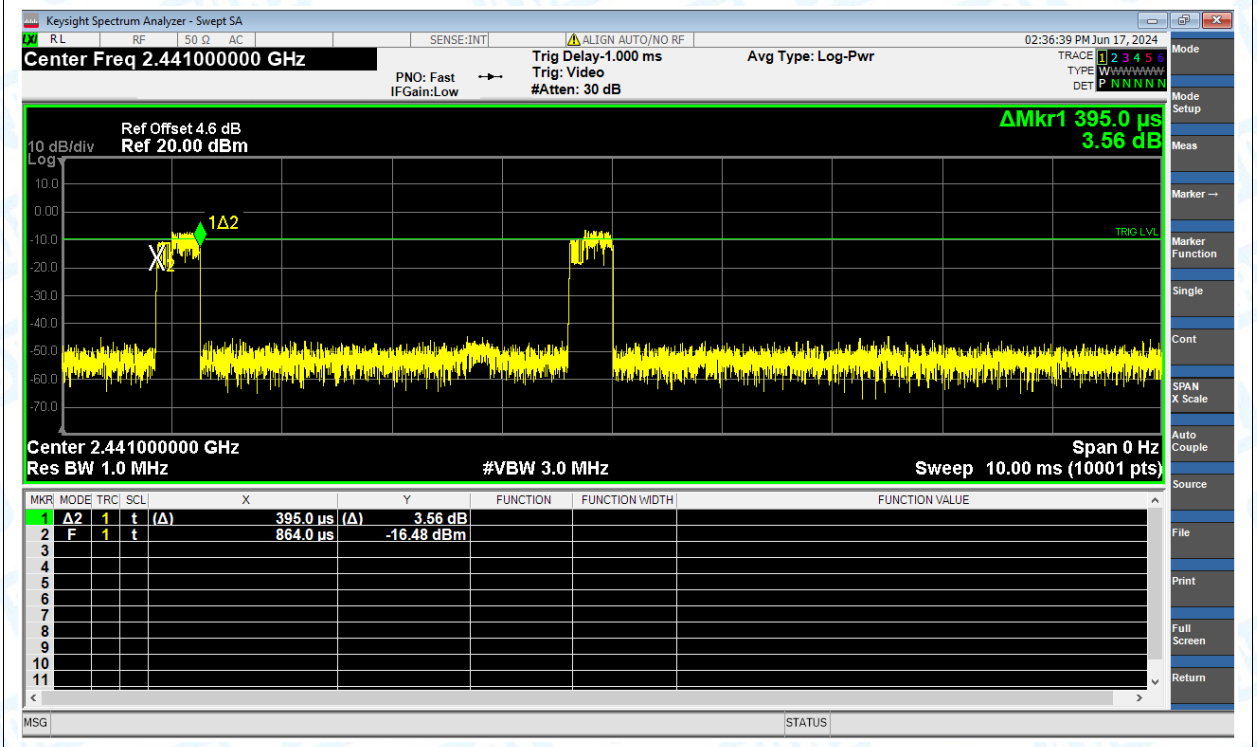
Dwell NVNT 2-DH3 2441MHz Ant1



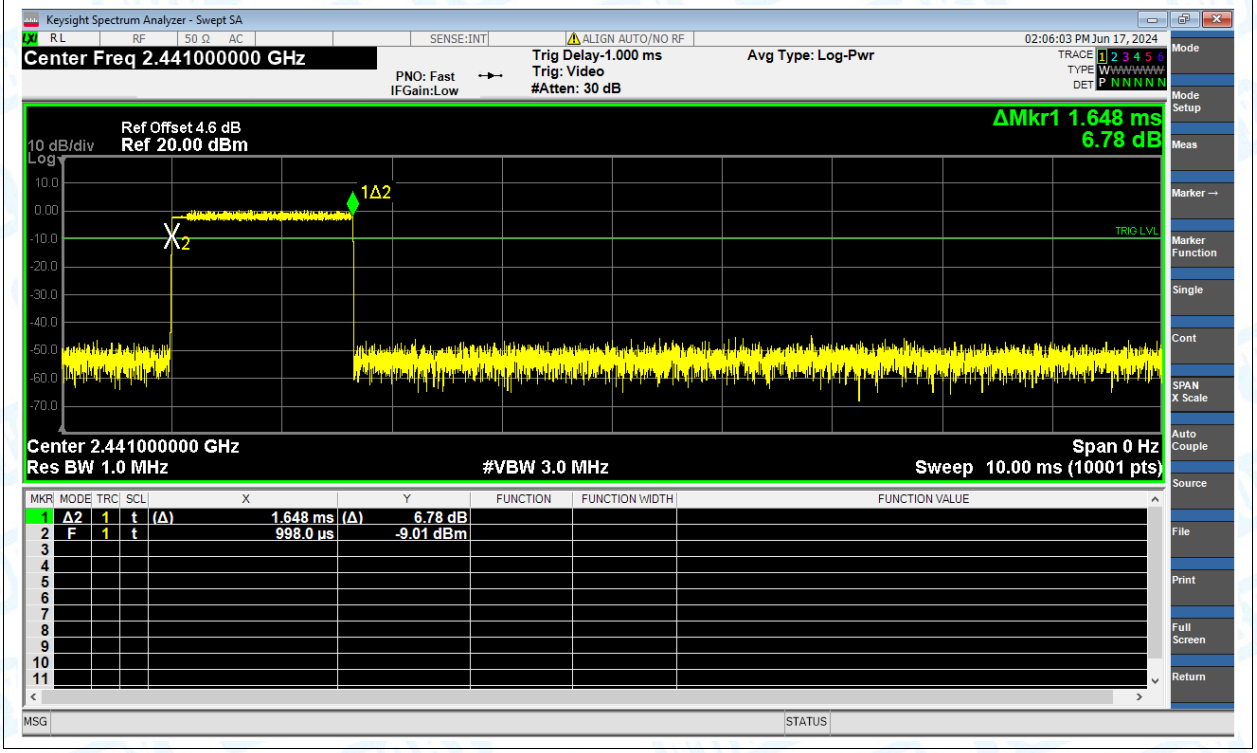
Dwell NVNT 2-DH5 2441MHz Ant1



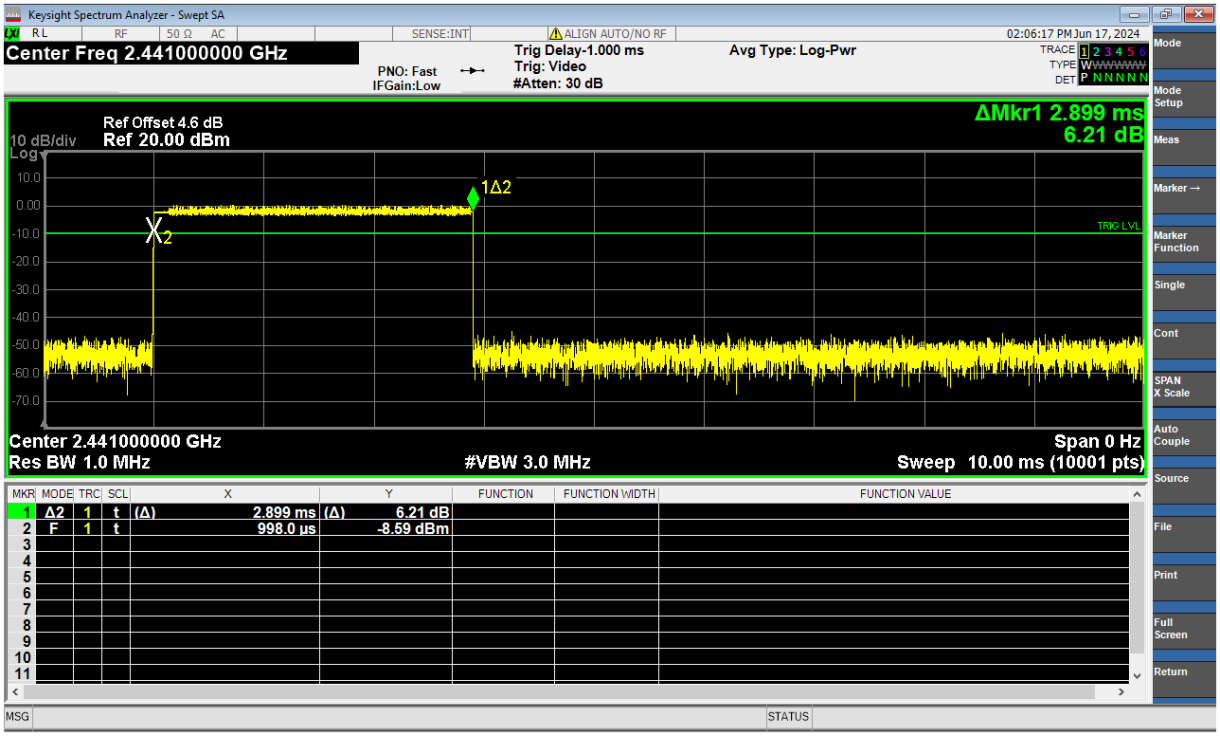
Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1



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