RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	10.1" Tablet
Test Model:	DL1050
Sample ID:	HC-C-202406-0032-01-02
Environmental Conditions	
Temperature:	24.2℃
Relative Humidity:	52.4%
Test Voltage:	DC 3.8V
Test Engineer:	MikeYan
Note: For a more detailed features description, please refer to the report TBR-C-202406-0032-41 The report only show the worst case data.	

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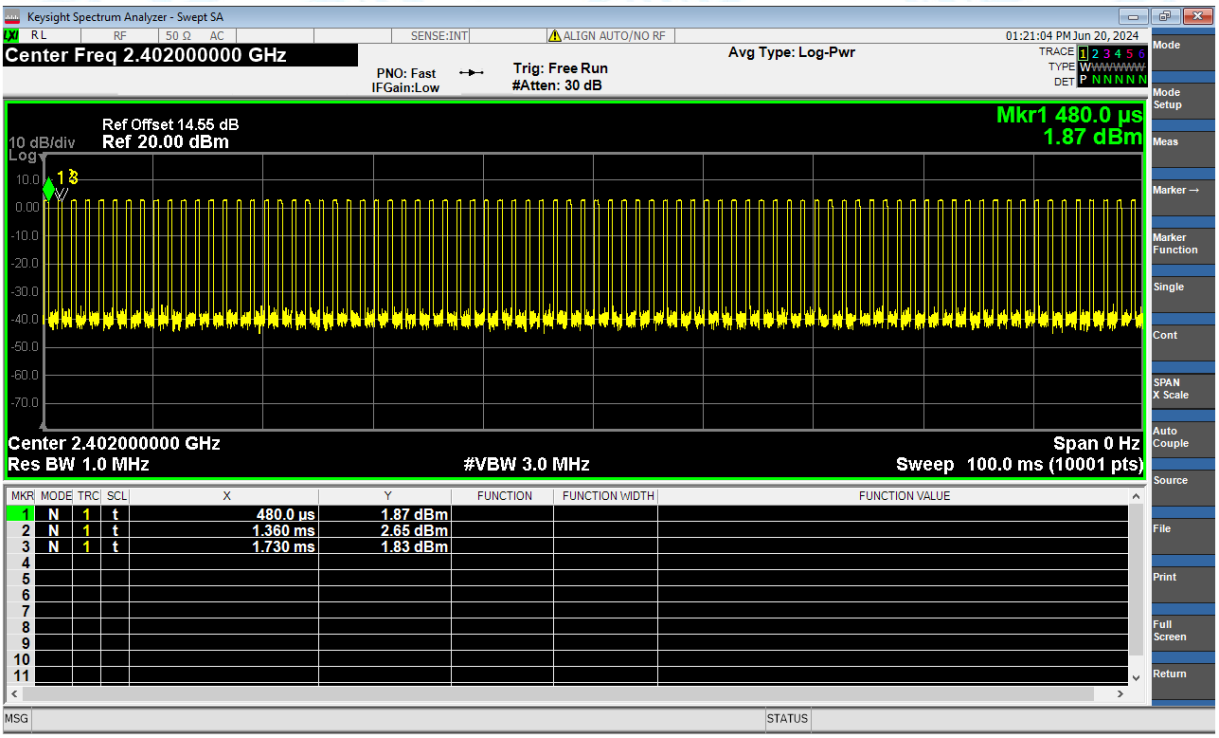
1. Duty Cycle

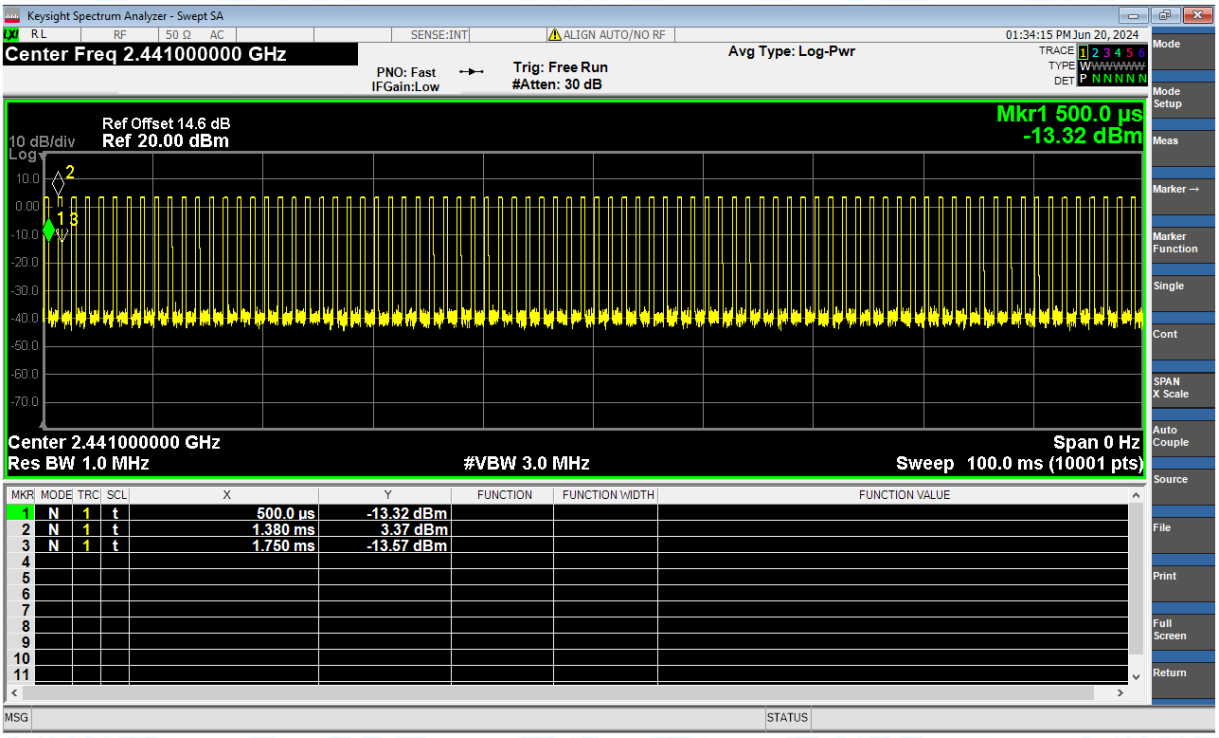
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	29.6	5.29	2.7
NVNT	1-DH1	2441	Ant1	29.6	5.29	2.7
NVNT	1-DH1	2480	Ant1	29.6	5.29	2.7
NVNT	2-DH1	2402	Ant1	29.6	5.29	2.7
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	3-DH1	2480	Ant1	30.4	5.17	2.63

Test Graphs

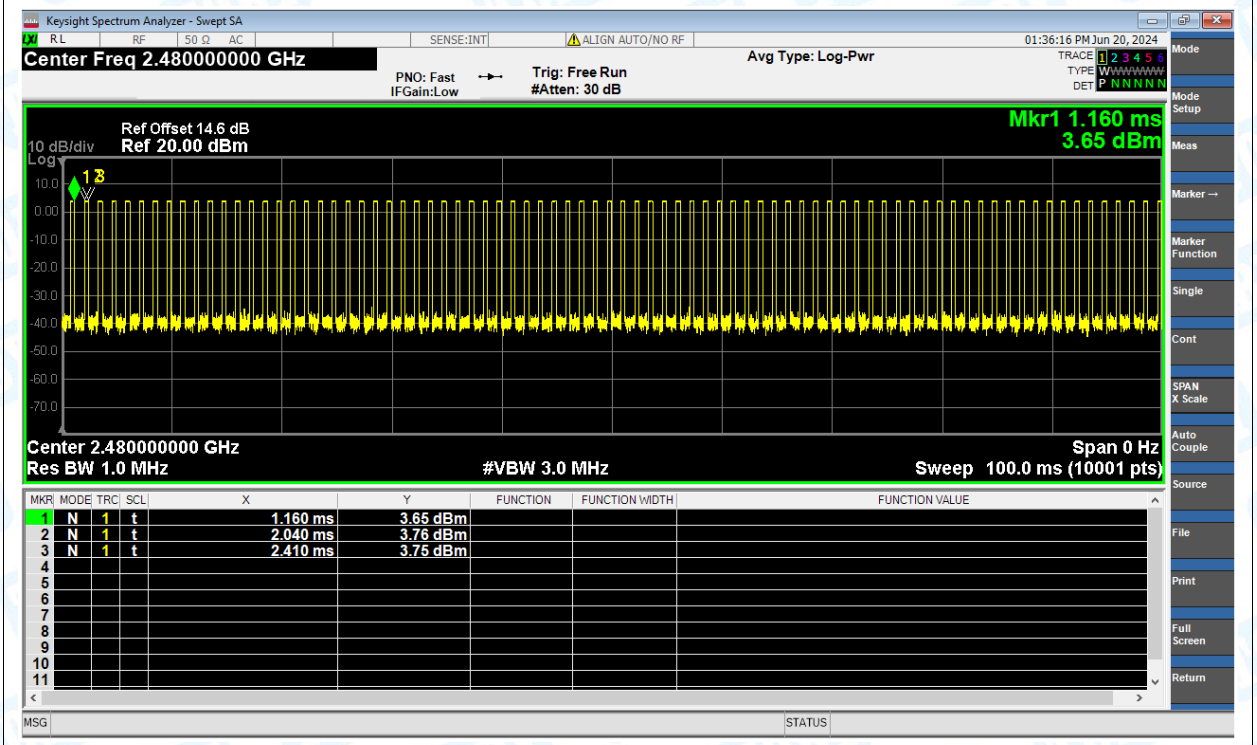
Duty Cycle NVNT 1-DH1 2402MHz Ant1



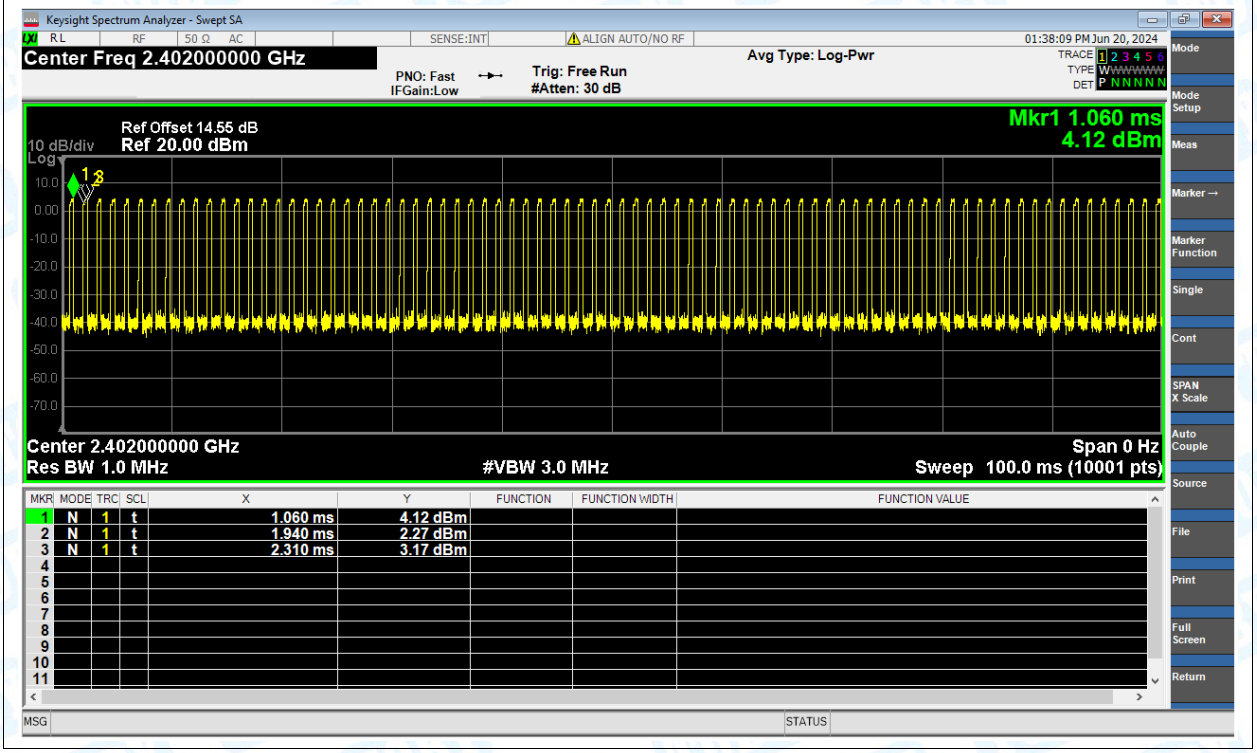
Duty Cycle NVNT 1-DH1 2441MHz Ant1



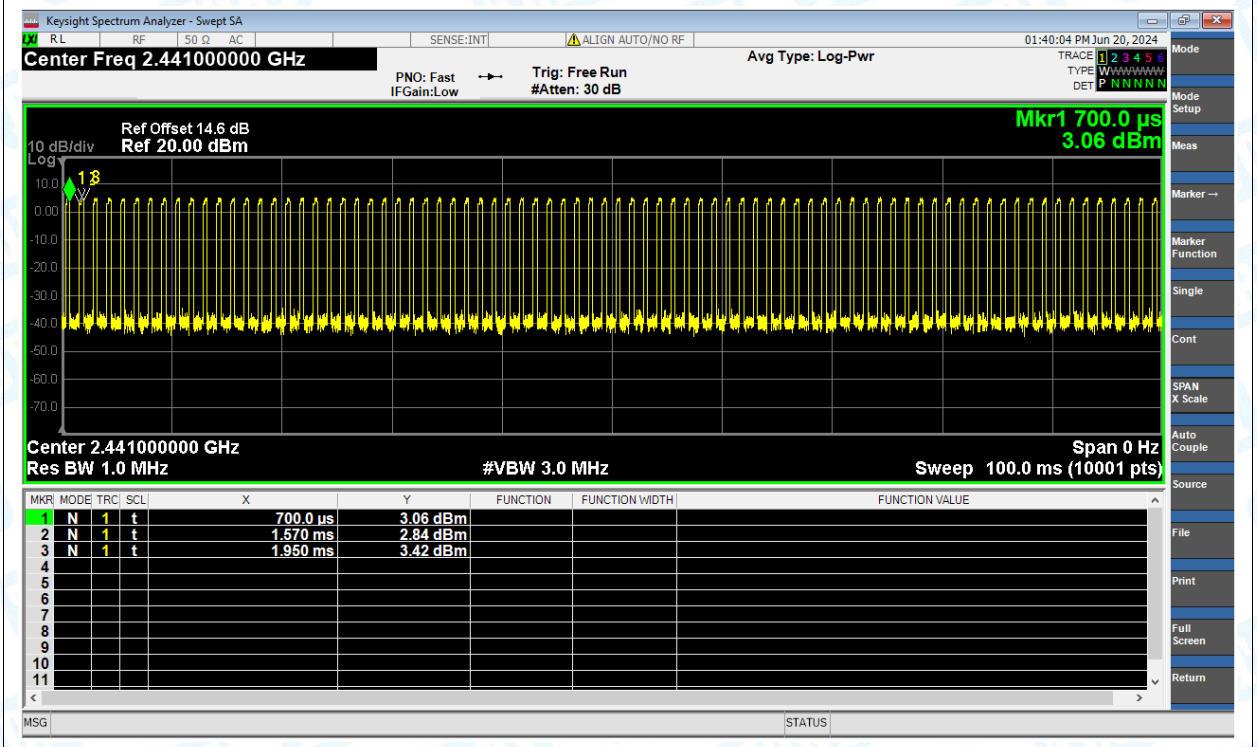
Duty Cycle NVNT 1-DH1 2480MHz Ant1



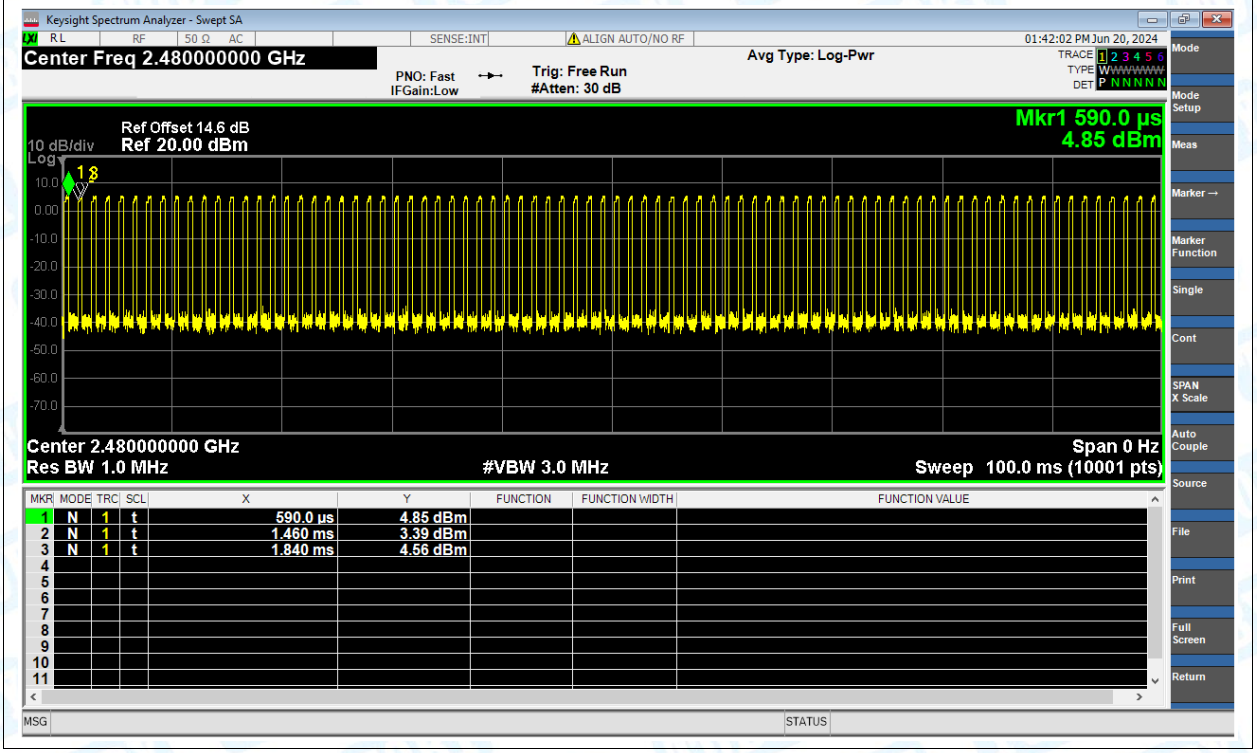
Duty Cycle NVNT 2-DH1 2402MHz Ant1



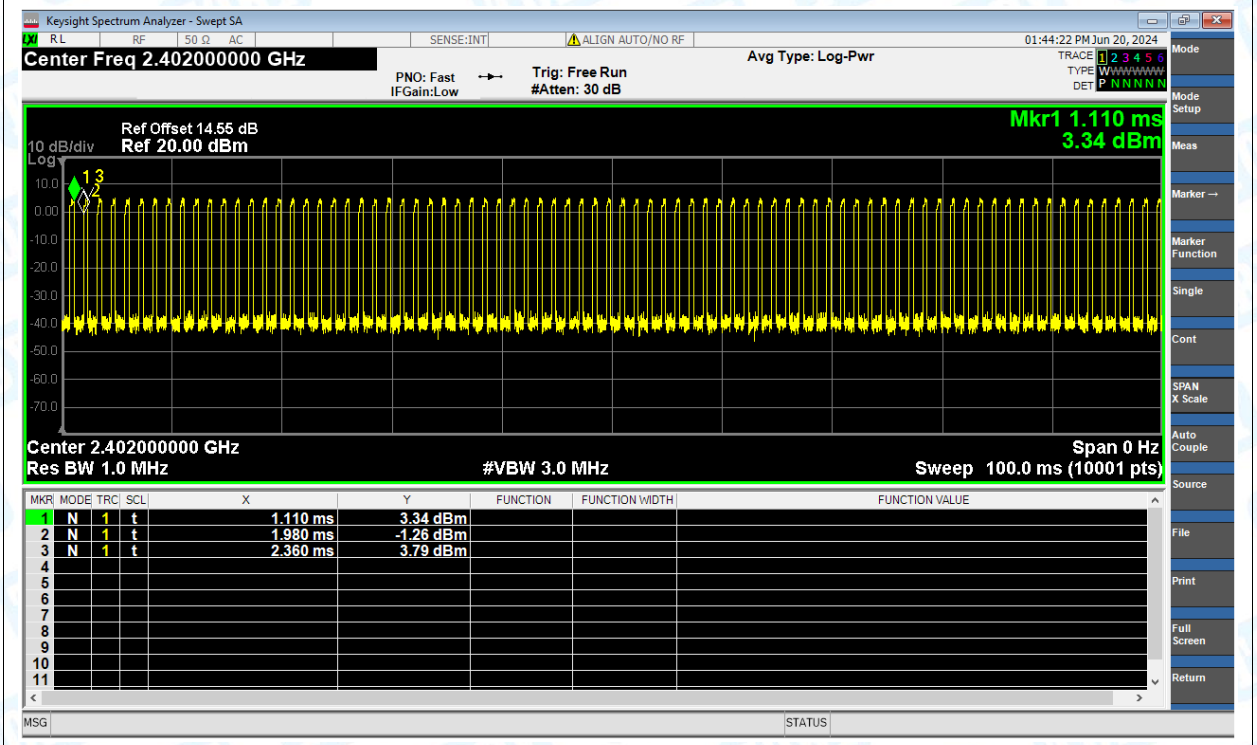
Duty Cycle NVNT 2-DH1 2441MHz Ant1



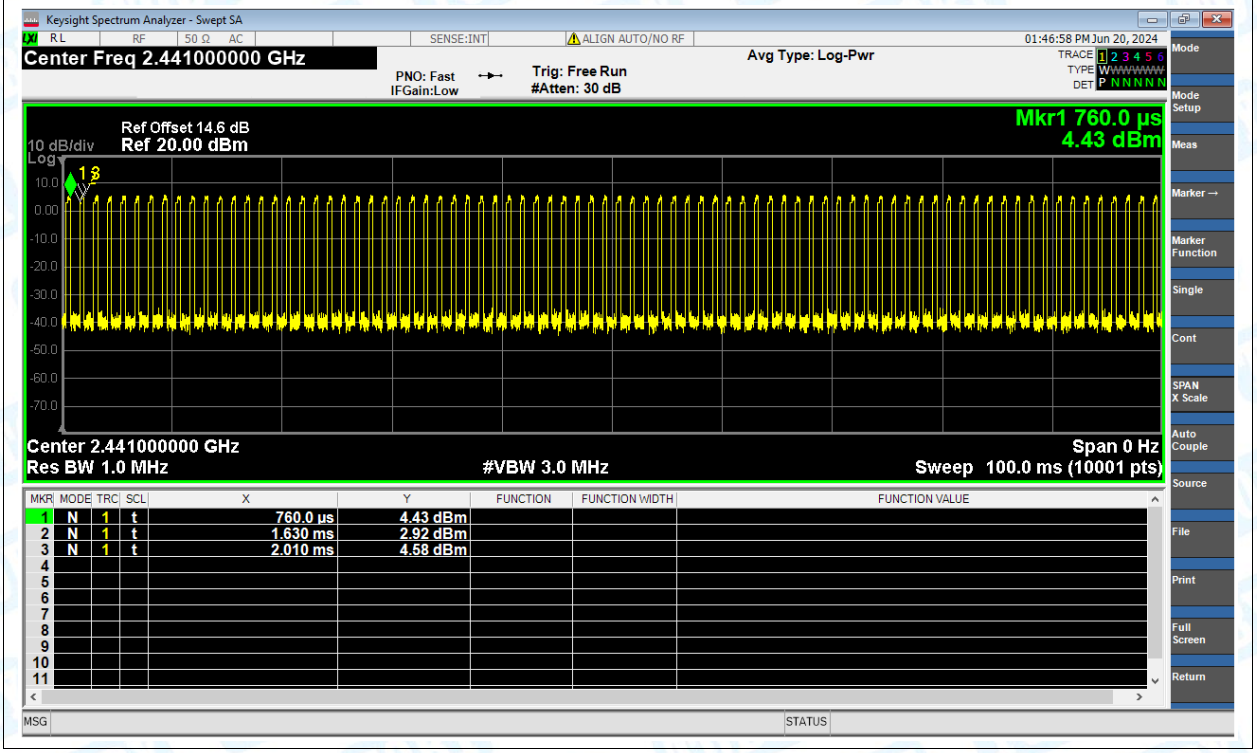
Duty Cycle NVNT 2-DH1 2480MHz Ant1



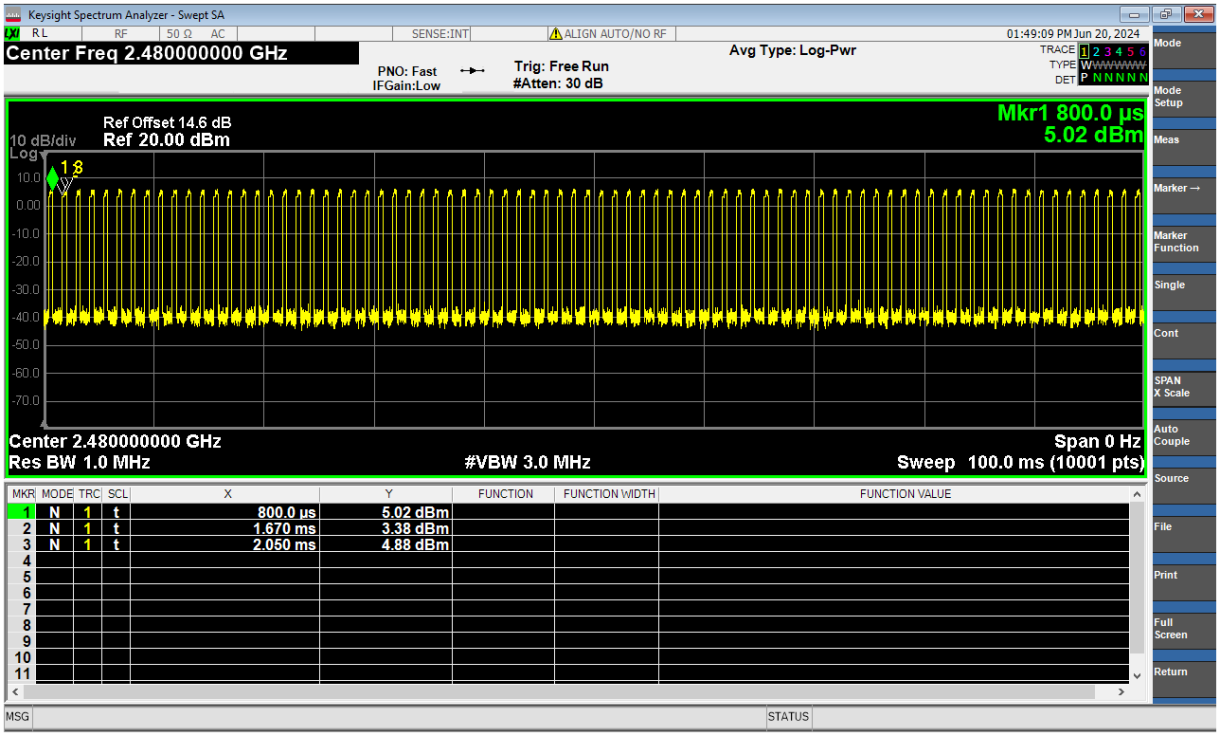
Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



Duty Cycle NVNT 3-DH1 2480MHz Ant1

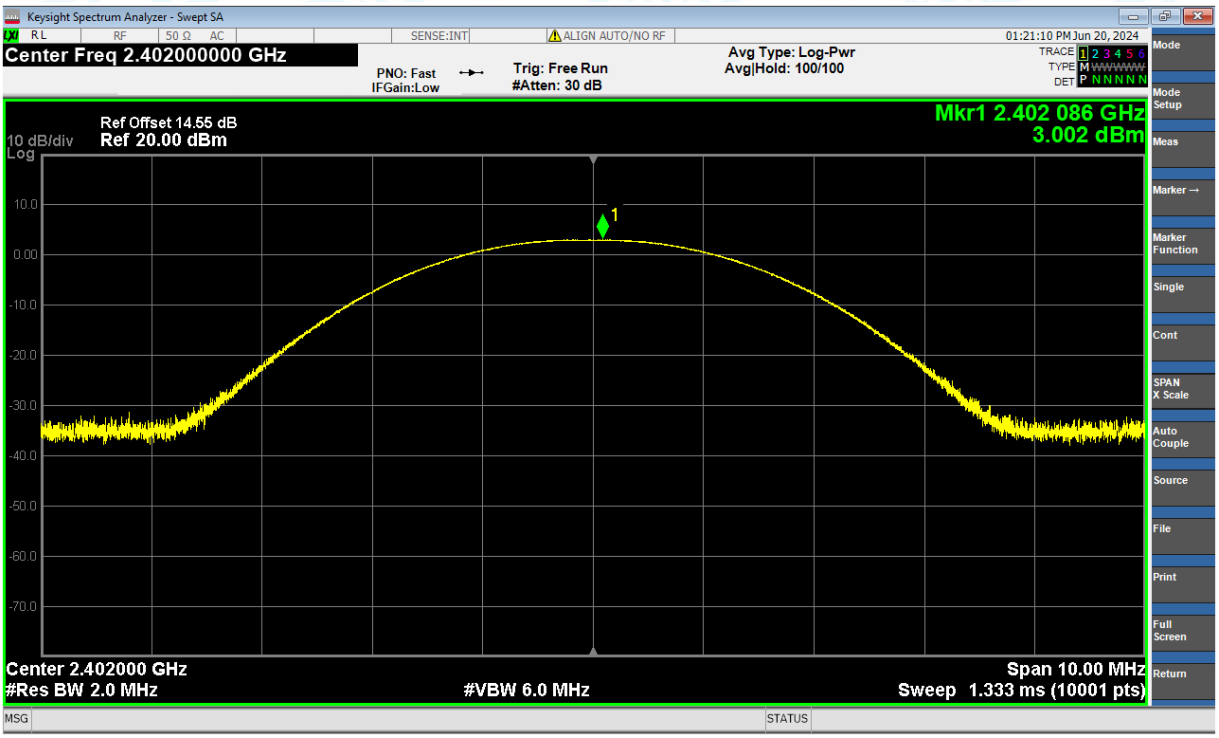


2. Maximum Conducted Output Power

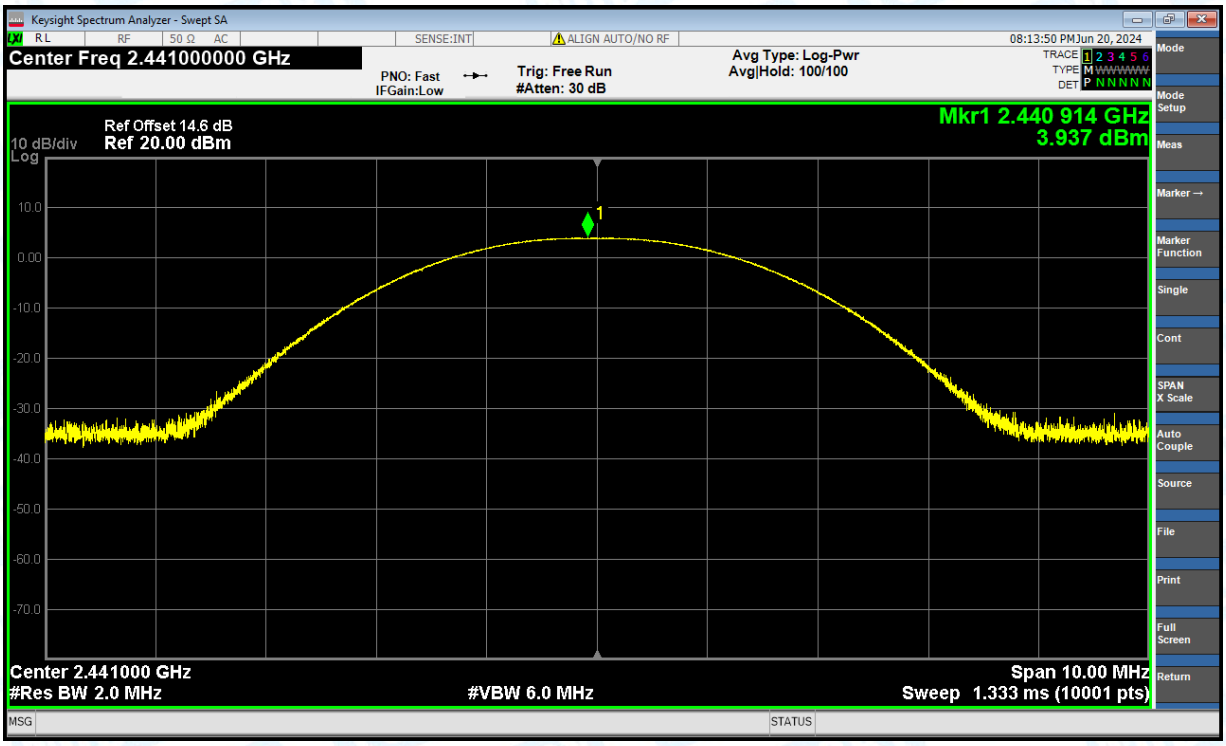
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.002	21	Pass
NVNT	1-DH1	2441	Ant1	3.937	21	Pass
NVNT	1-DH1	2480	Ant1	4.119	21	Pass
NVNT	1-DH3	2441	Ant1	4.149	21	Pass
NVNT	1-DH5	2441	Ant1	4.154	21	Pass
NVNT	2-DH1	2402	Ant1	5.135	21	Pass
NVNT	2-DH1	2441	Ant1	6.12	21	Pass
NVNT	2-DH1	2480	Ant1	6.031	21	Pass
NVNT	2-DH3	2441	Ant1	6.125	21	Pass
NVNT	2-DH5	2441	Ant1	6.698	21	Pass
NVNT	3-DH1	2402	Ant1	6.035	21	Pass
NVNT	3-DH1	2441	Ant1	6.194	21	Pass
NVNT	3-DH1	2480	Ant1	7.031	21	Pass
NVNT	3-DH3	2441	Ant1	6.649	21	Pass
NVNT	3-DH5	2441	Ant1	6.798	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1

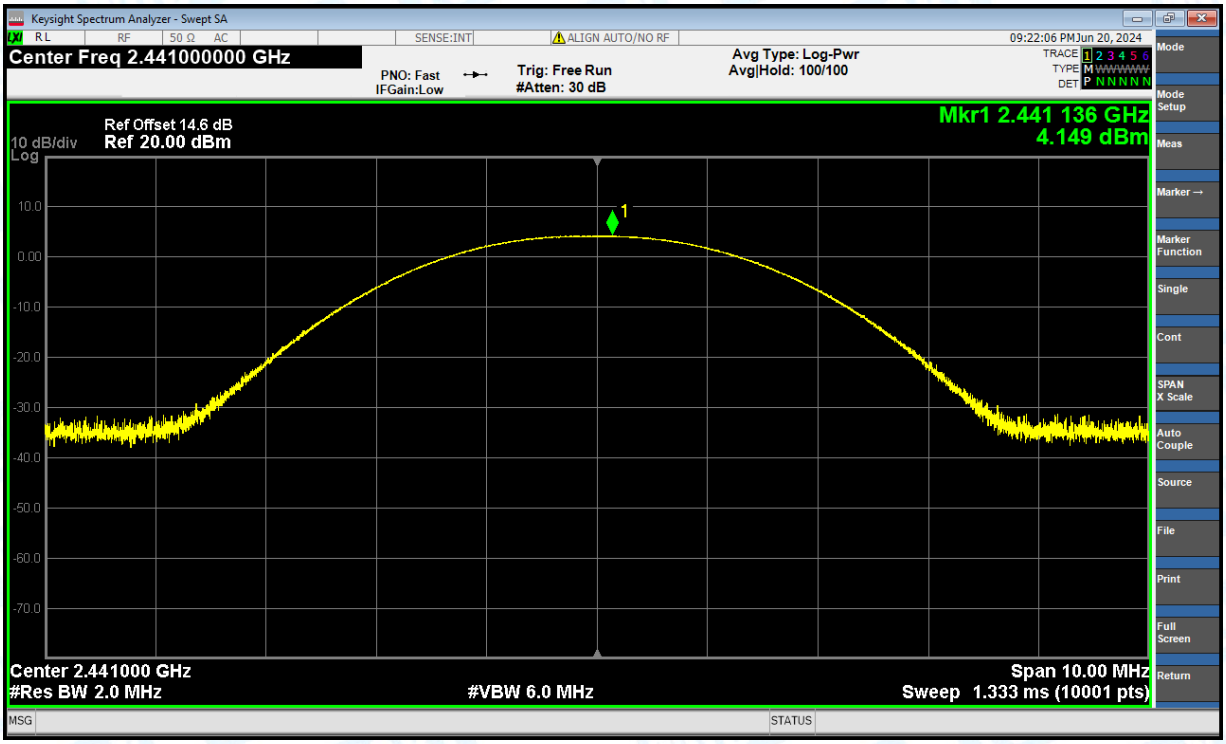


Power NVNT 1-DH1 2441MHz Ant1

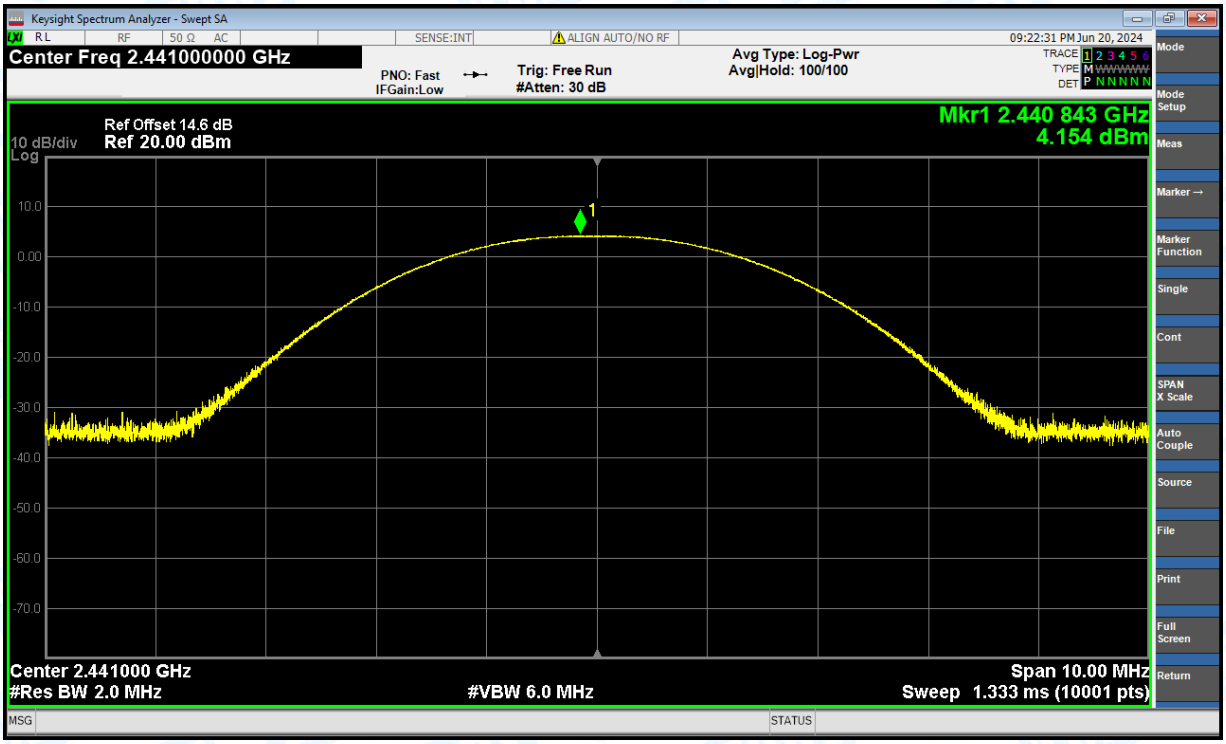


Power NVNT 1-DH1 2480MHz Ant1

Power NVNT 1-DH3 2441MHz Ant1

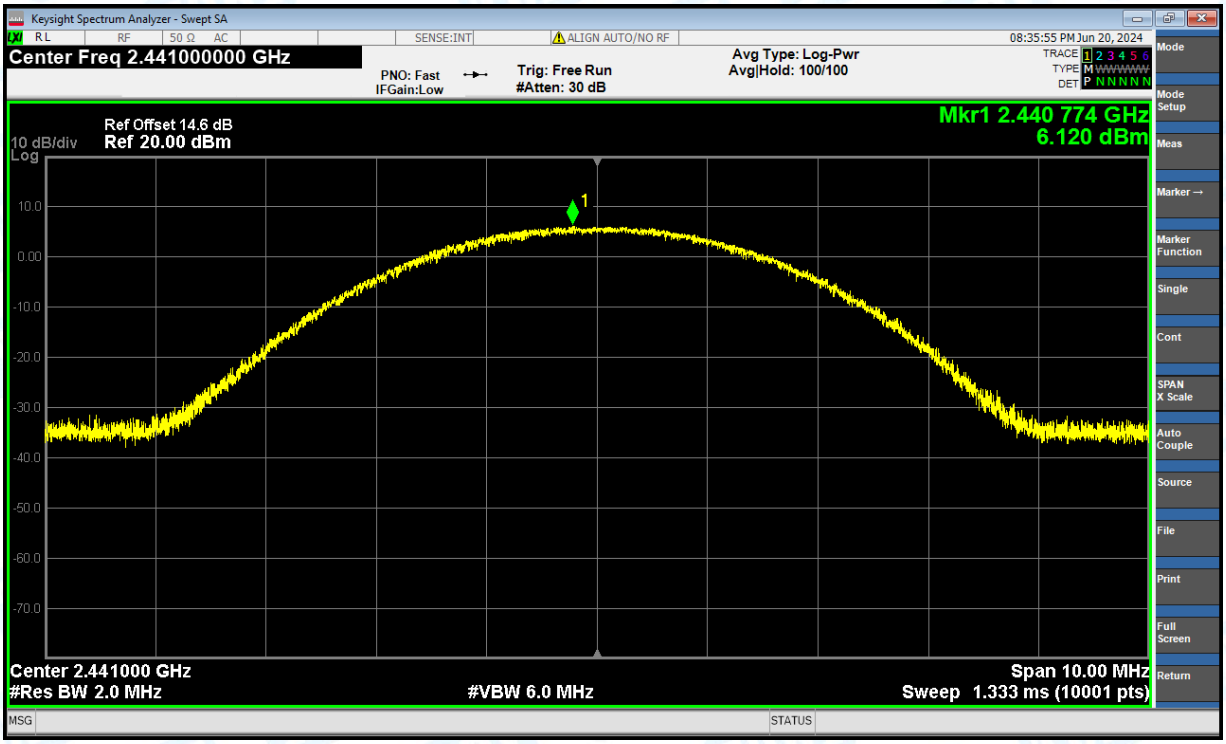


Power NVNT 1-DH5 2441MHz Ant1

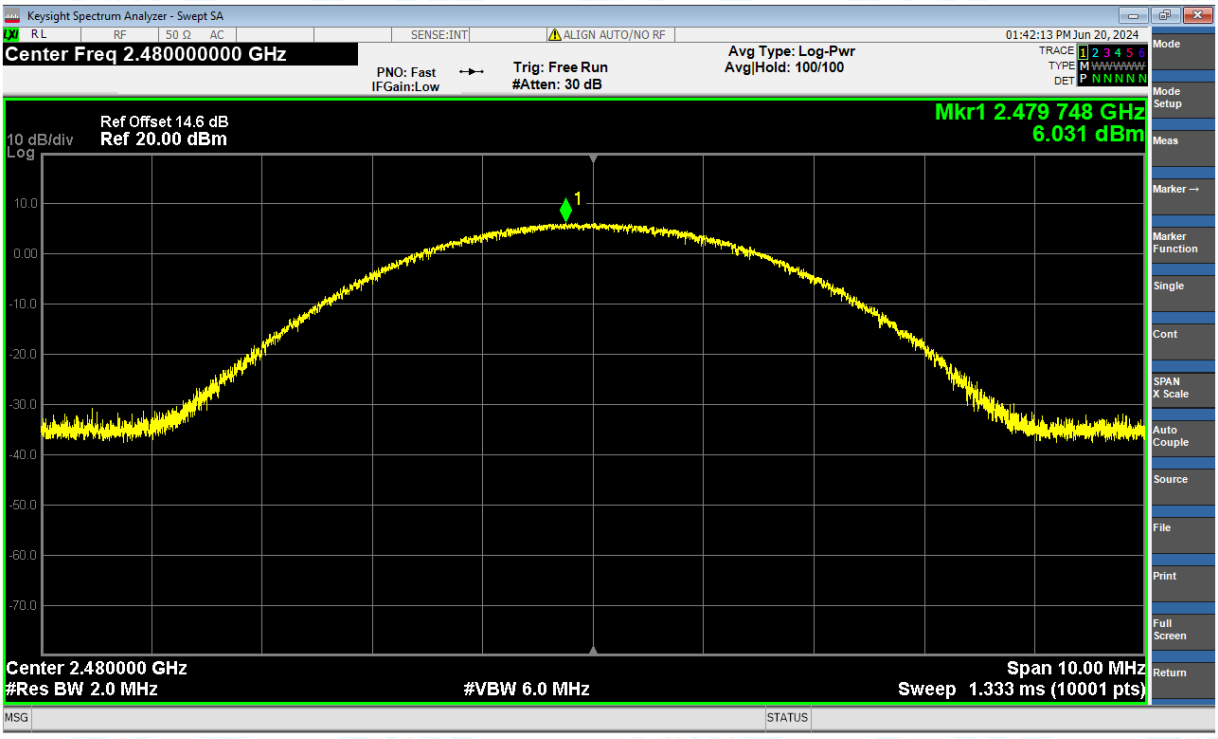


Power NVNT 2-DH1 2402MHz Ant1

Power NVNT 2-DH1 2441MHz Ant1



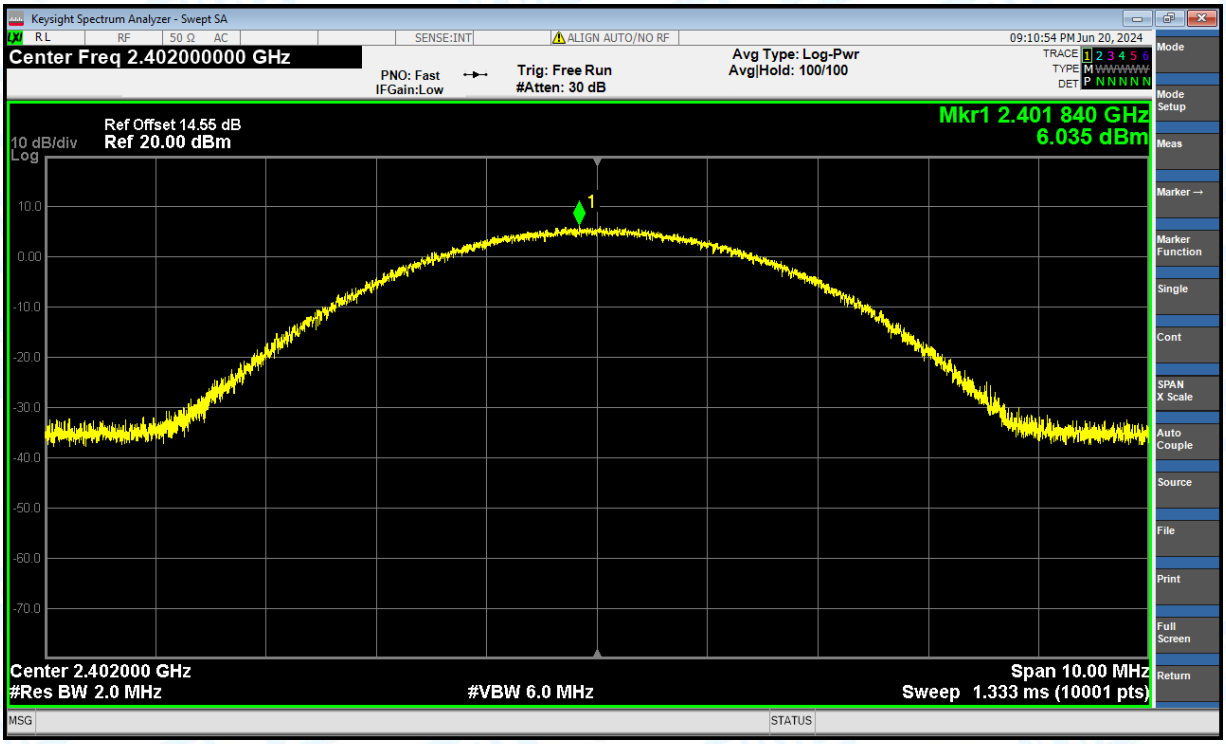
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1

Power NVNT 2-DH5 2441MHz Ant1

Power NVNT 3-DH1 2402MHz Ant1

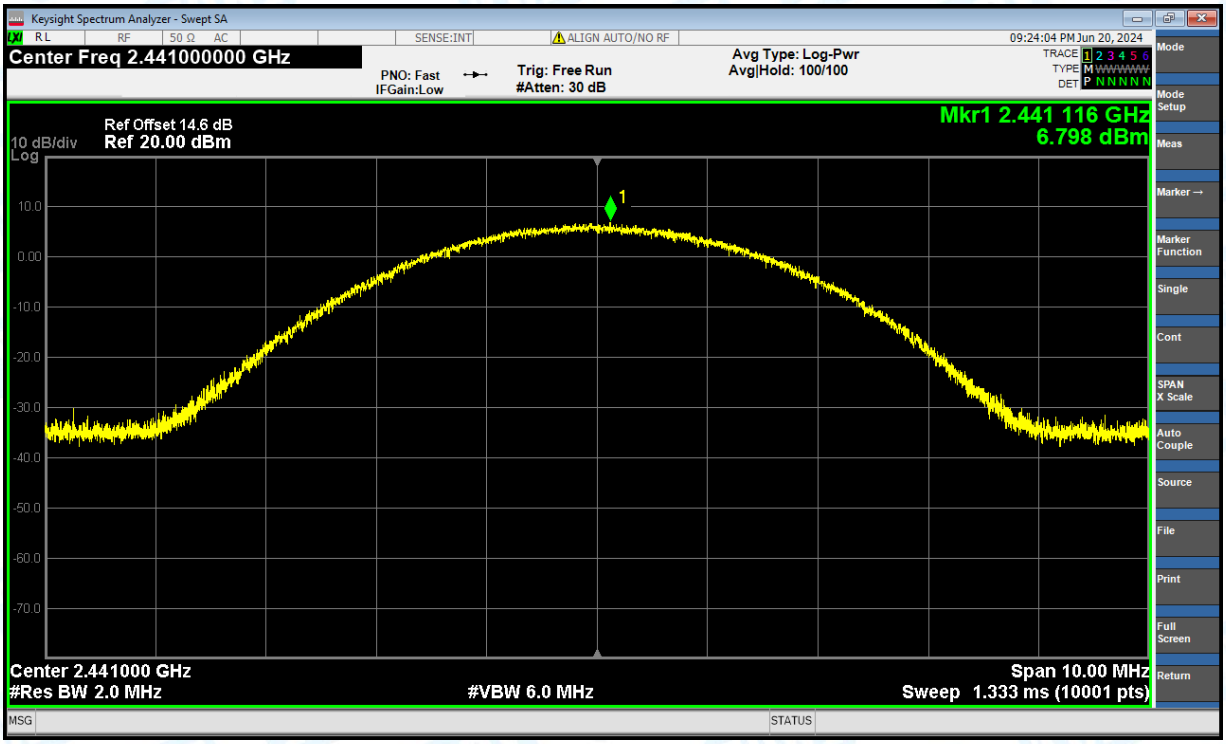


Power NVNT 3-DH1 2441MHz Ant1

Power NVNT 3-DH1 2480MHz Ant1

Power NVNT 3-DH3 2441MHz Ant1

Power NVNT 3-DH5 2441MHz Ant1



3. -20dB Bandwidth

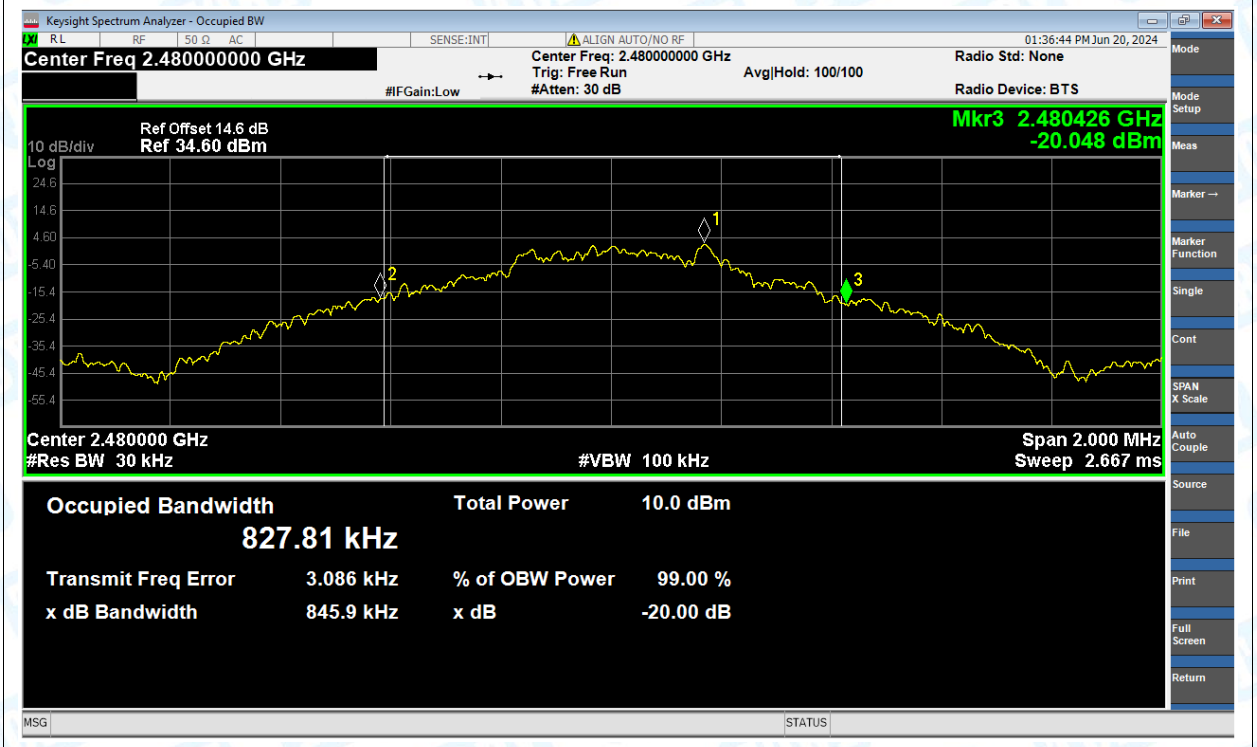
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.93	0	Pass
NVNT	1-DH1	2441	Ant1	0.9	0	Pass
NVNT	1-DH1	2480	Ant1	0.85	0	Pass
NVNT	2-DH1	2402	Ant1	1.27	0	Pass
NVNT	2-DH1	2441	Ant1	1.28	0	Pass
NVNT	2-DH1	2480	Ant1	1.26	0	Pass
NVNT	3-DH1	2402	Ant1	1.3	0	Pass
NVNT	3-DH1	2441	Ant1	1.29	0	Pass
NVNT	3-DH1	2480	Ant1	1.27	0	Pass

Test Graphs

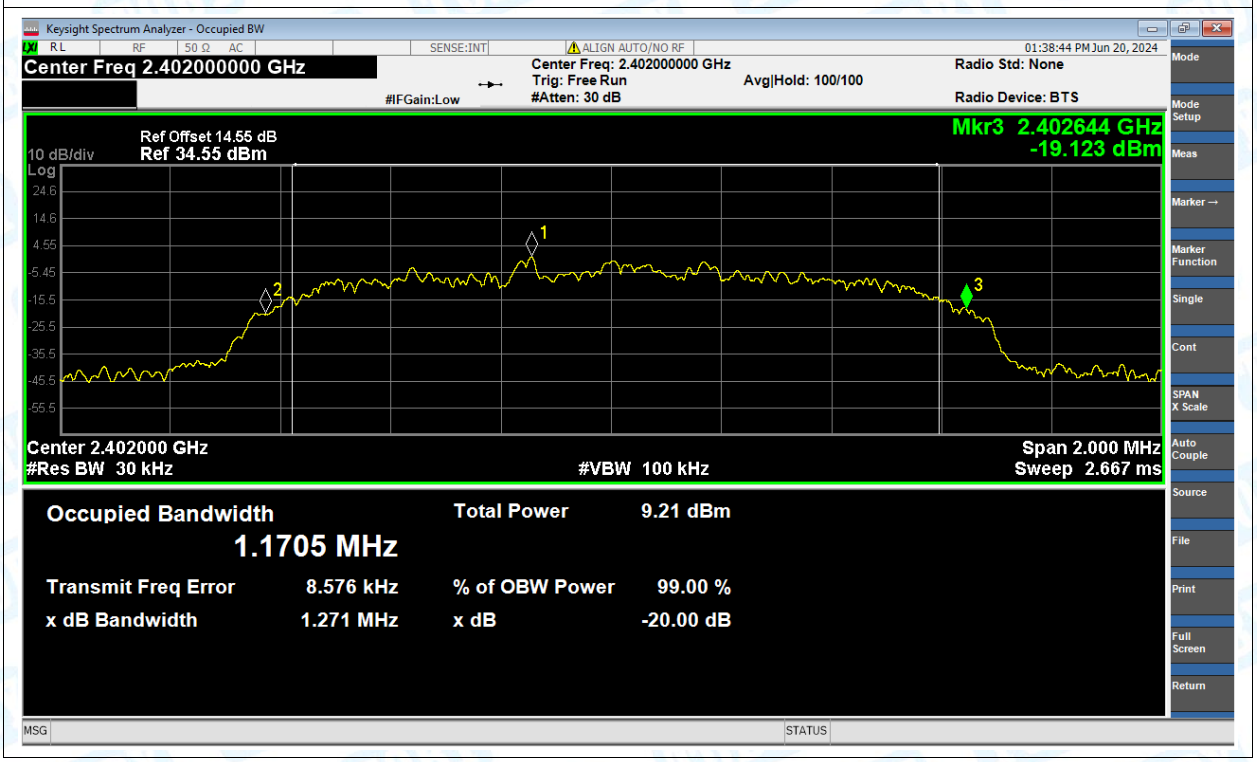
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

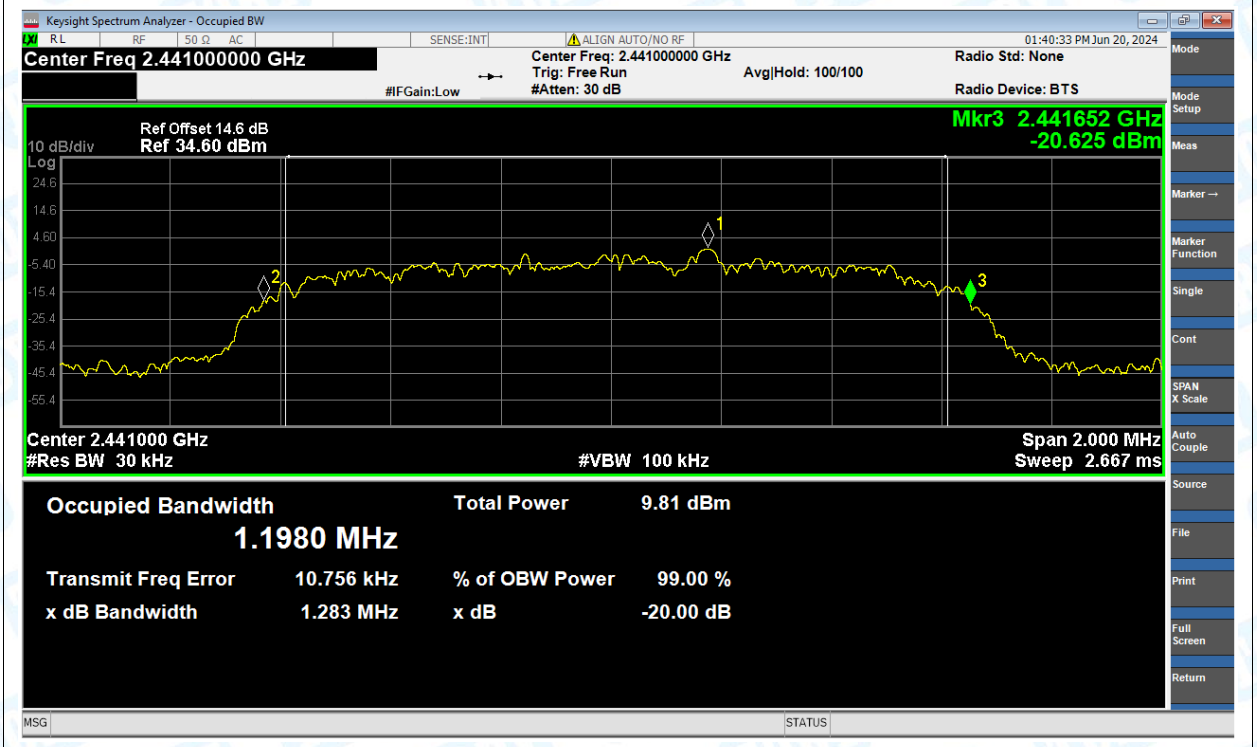
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



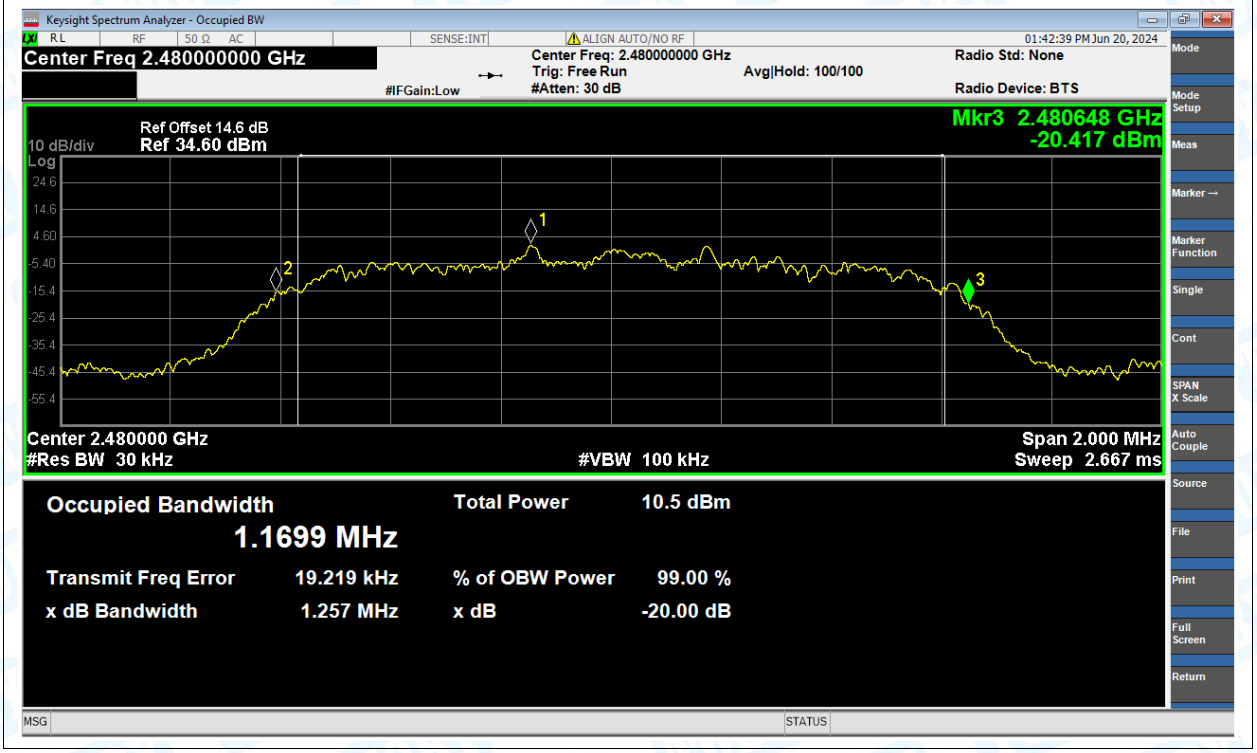
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



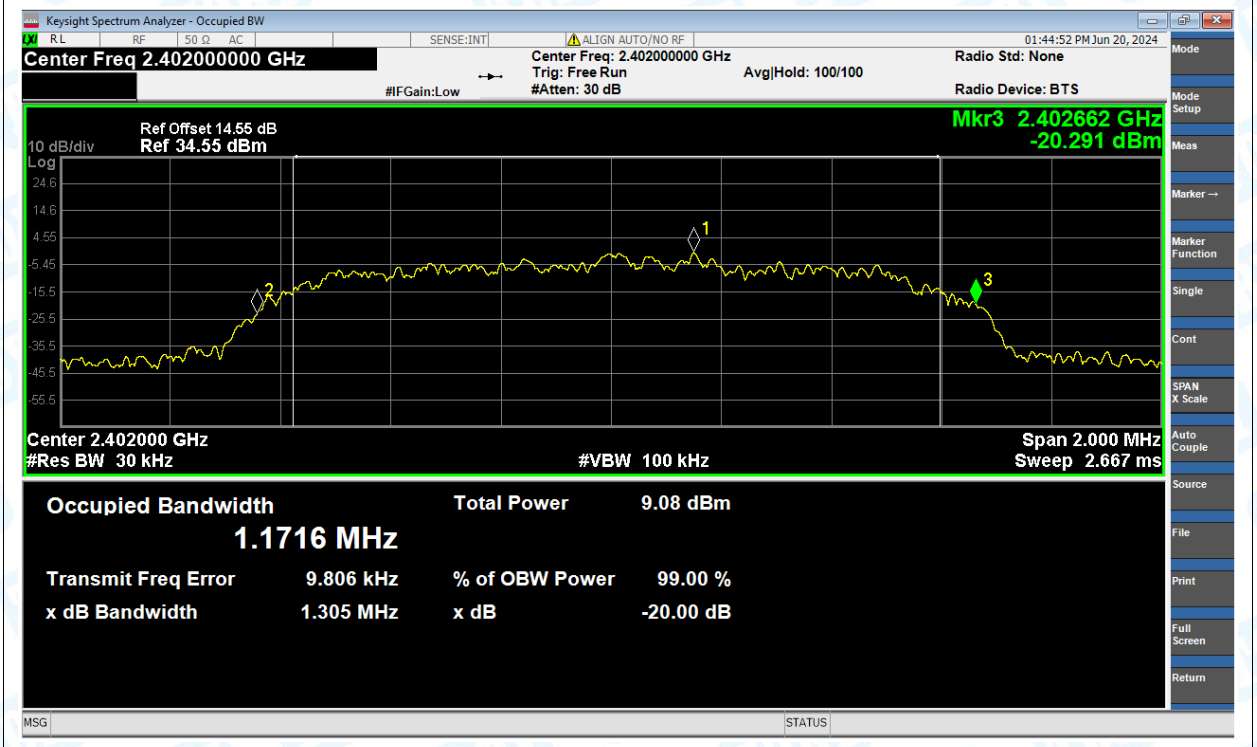
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



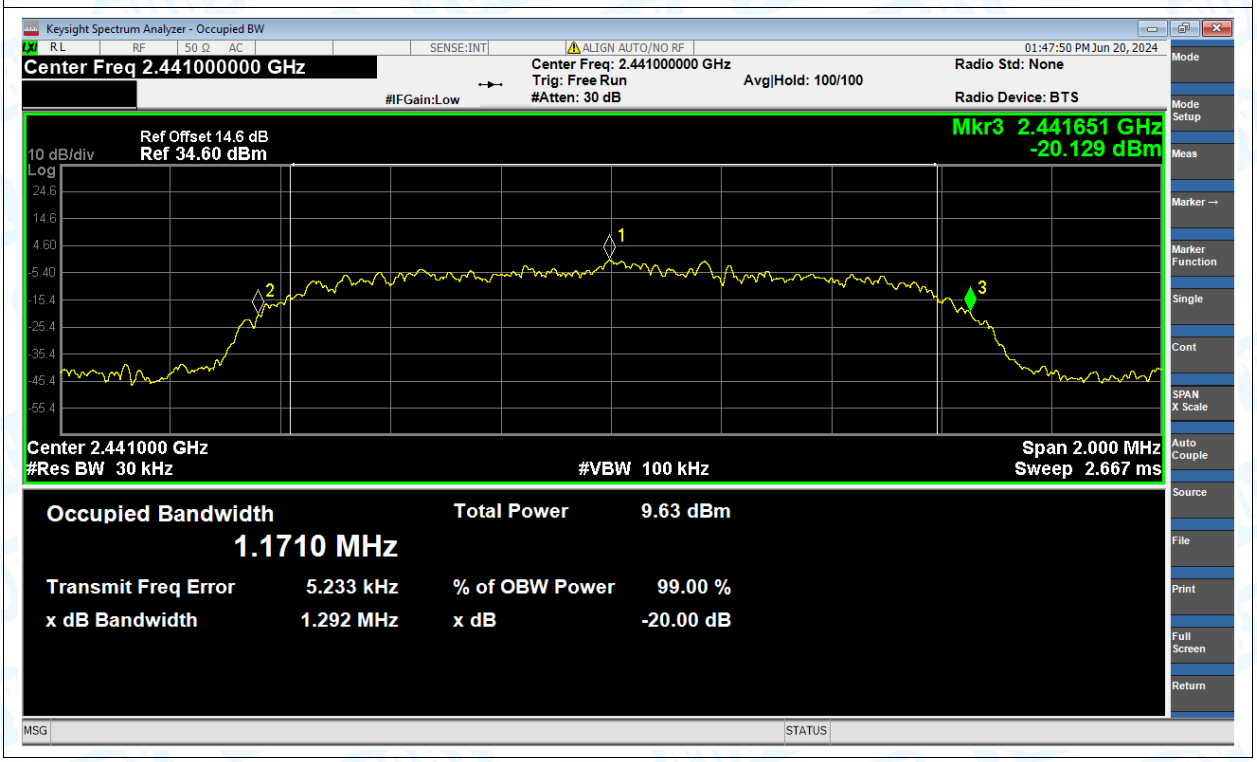
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



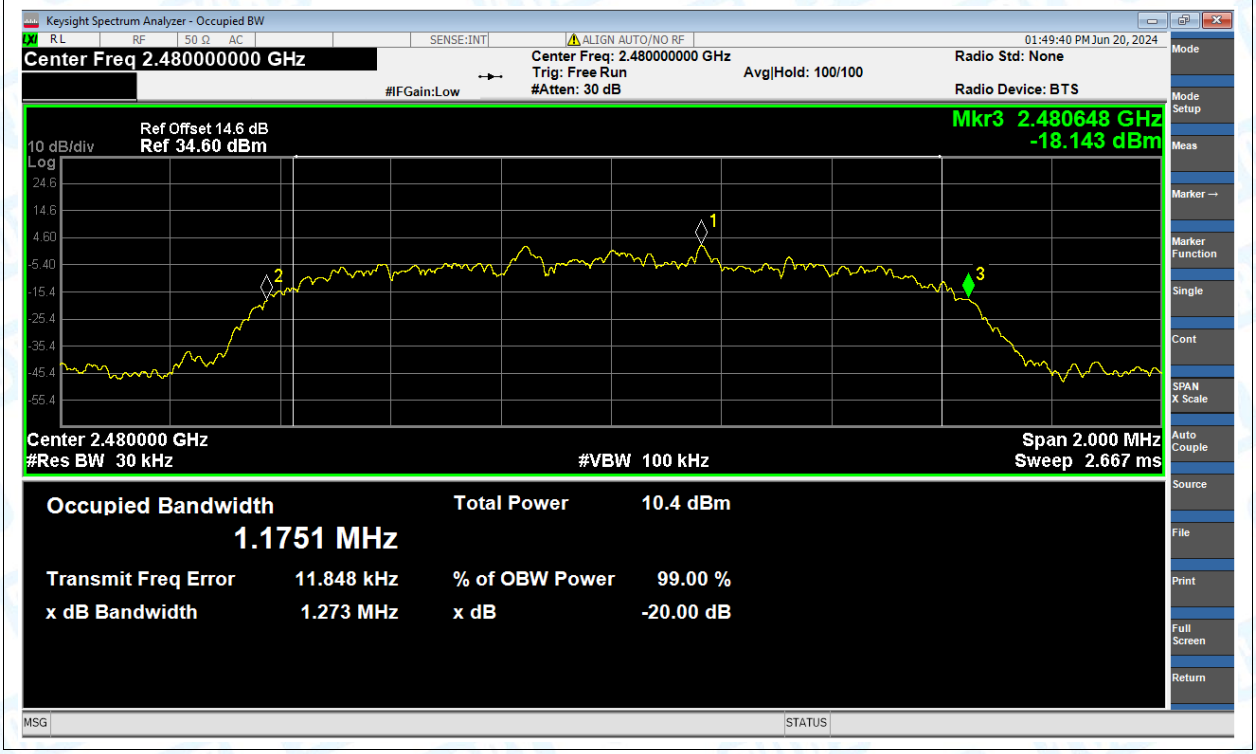
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

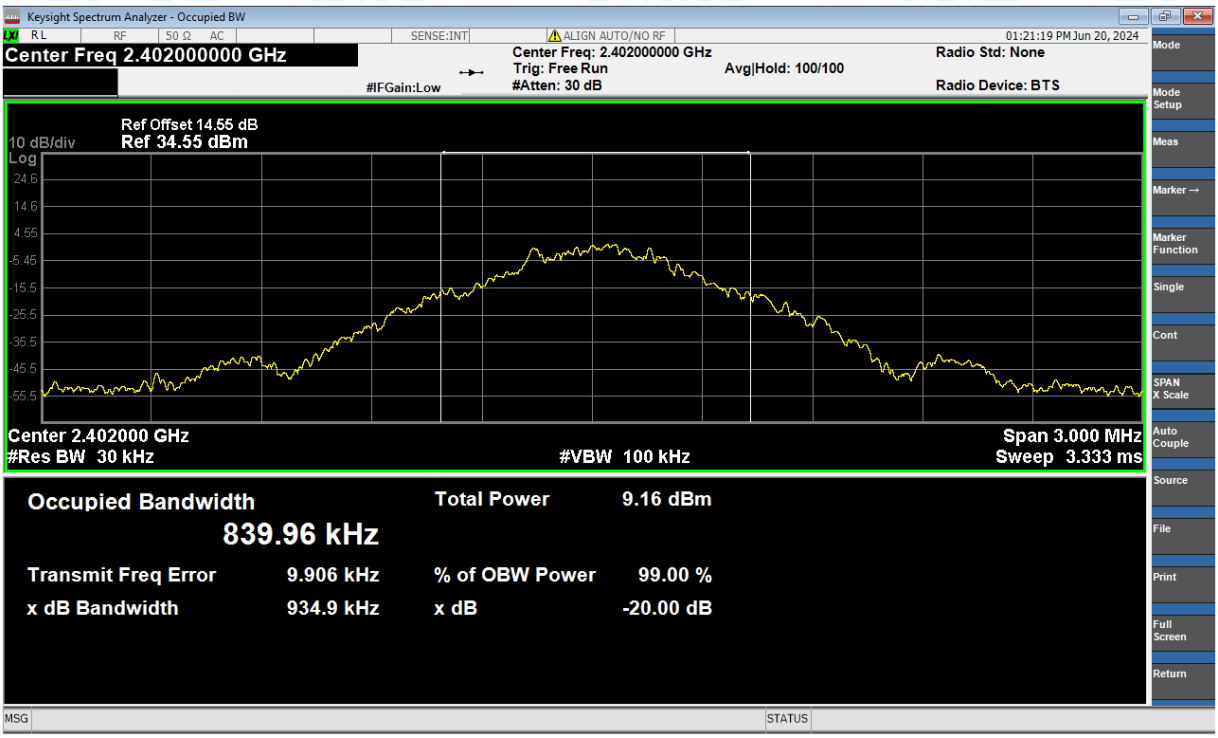


4. Occupied Channel Bandwidth

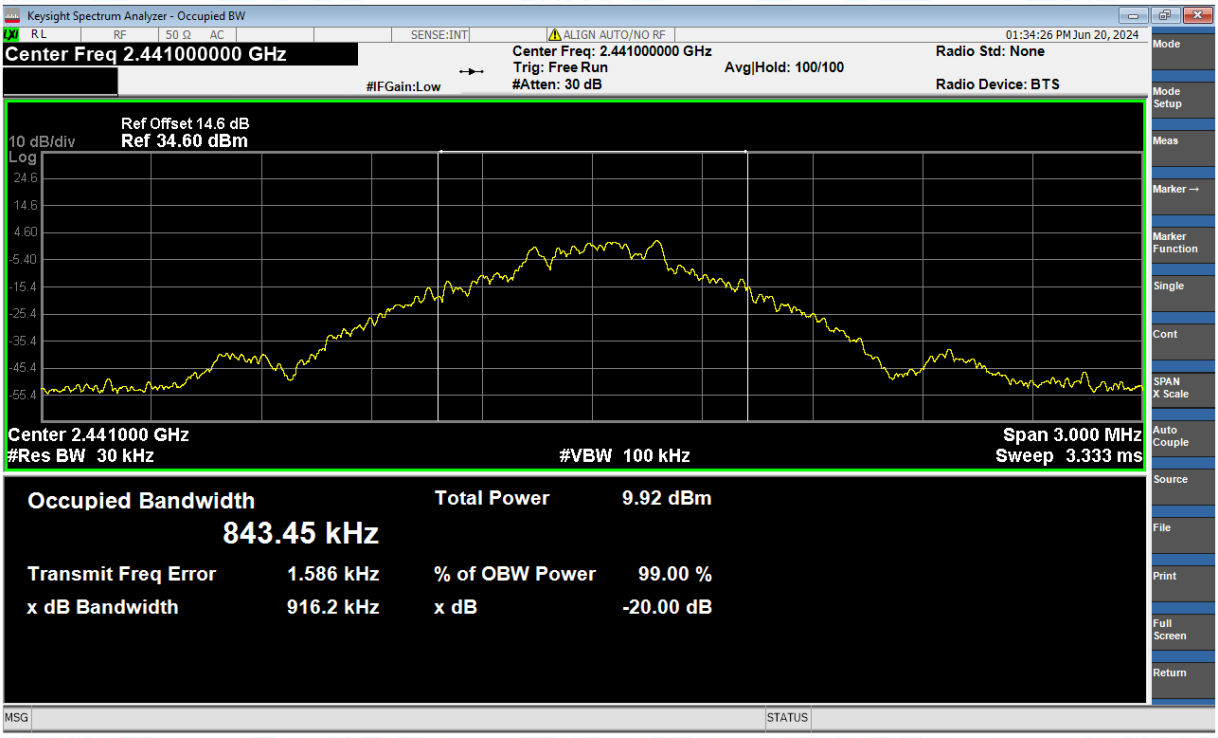
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.84
NVNT	1-DH1	2441	Ant1	0.843
NVNT	1-DH1	2480	Ant1	0.815
NVNT	2-DH1	2402	Ant1	1.183
NVNT	2-DH1	2441	Ant1	1.172
NVNT	2-DH1	2480	Ant1	1.191
NVNT	3-DH1	2402	Ant1	1.198
NVNT	3-DH1	2441	Ant1	1.189
NVNT	3-DH1	2480	Ant1	1.16

Test Graphs

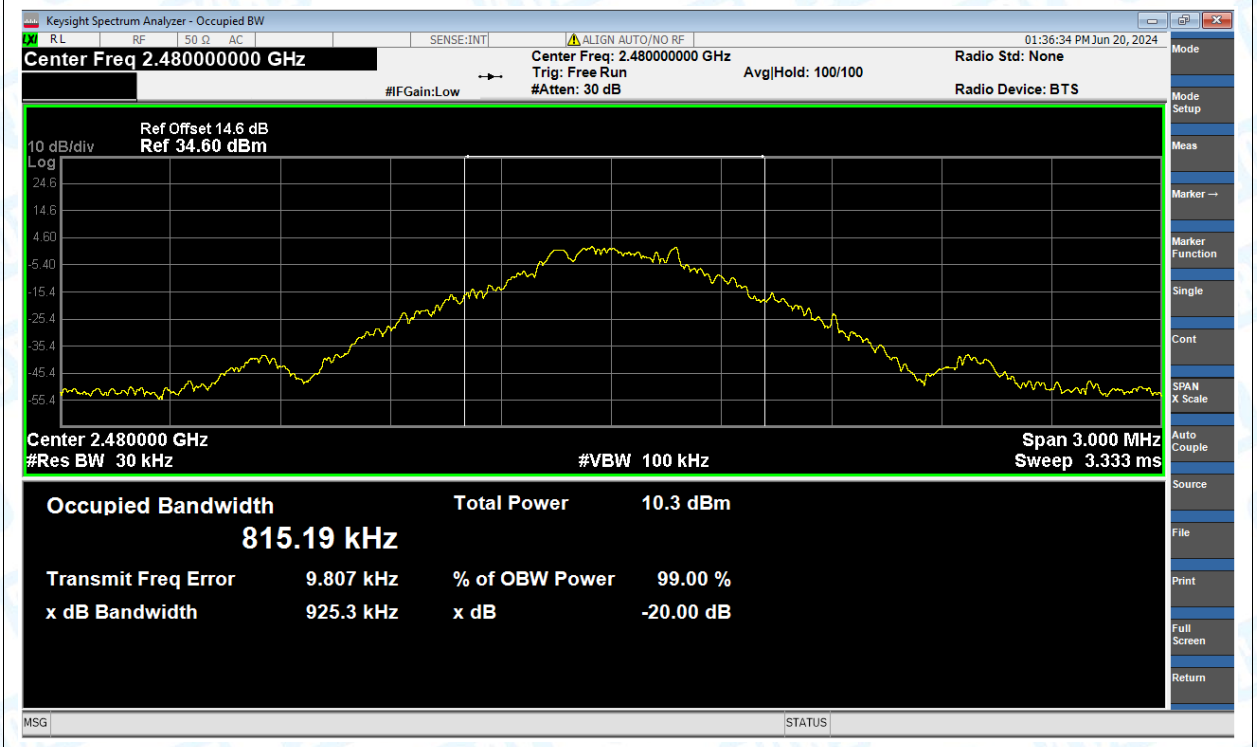
OBW NVNT 1-DH1 2402MHz Ant1



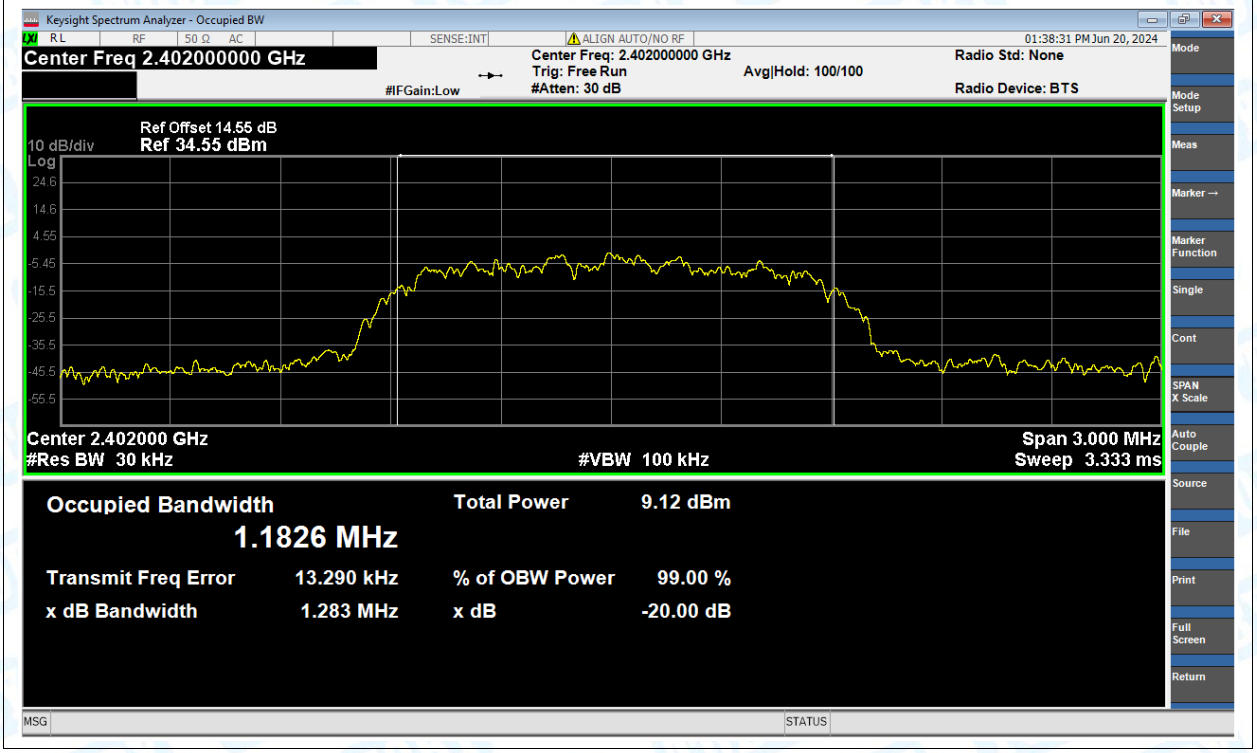
OBW NVNT 1-DH1 2441MHz Ant1



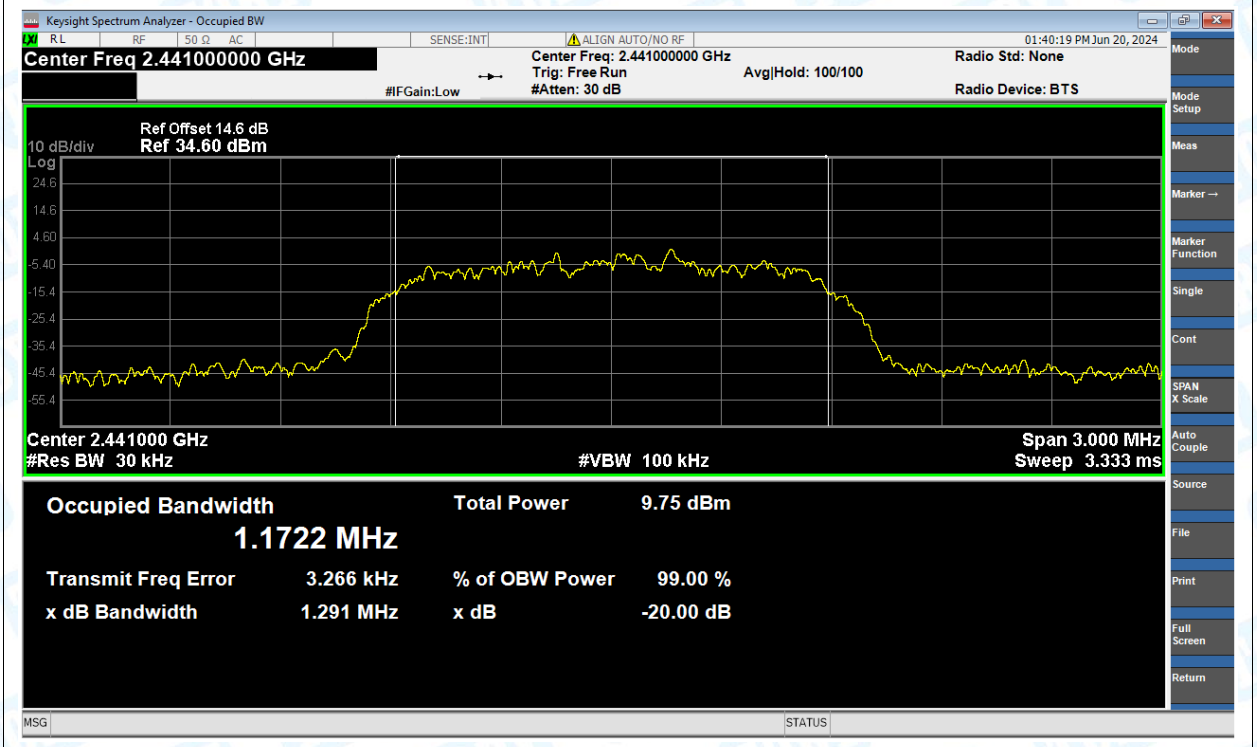
OBW NVNT 1-DH1 2480MHz Ant1



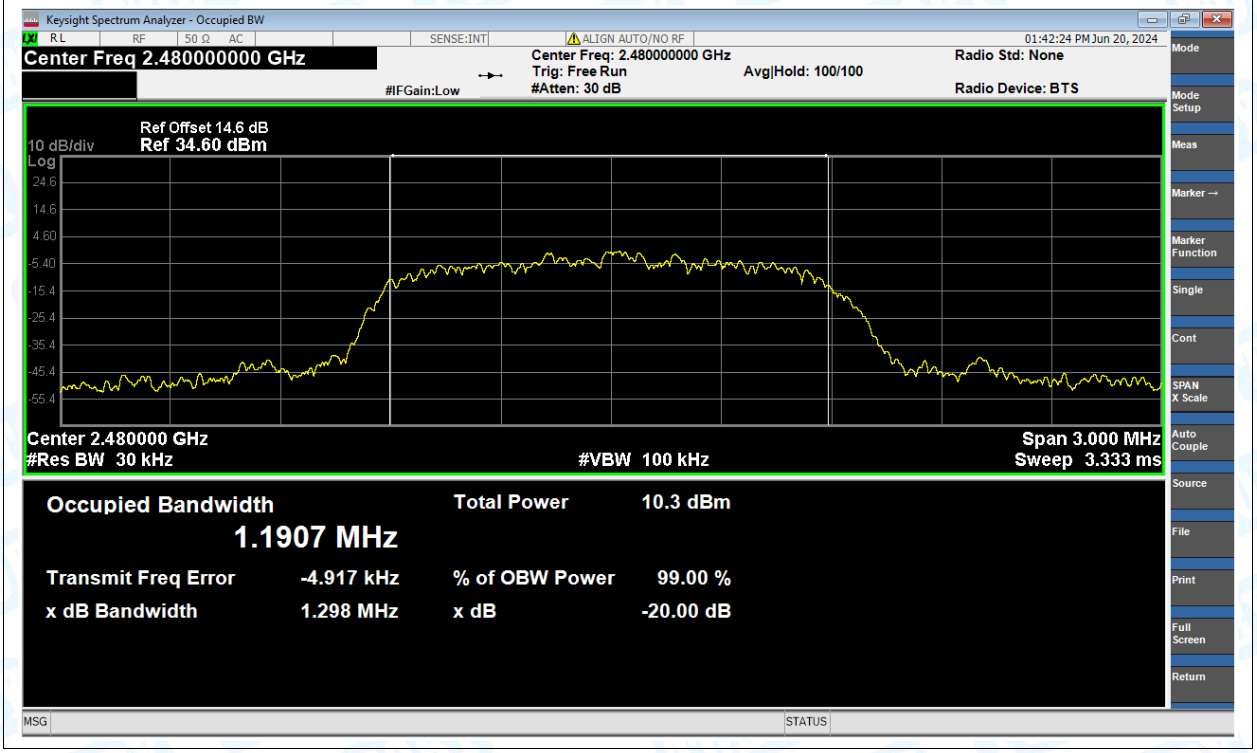
OBW NVNT 2-DH1 2402MHz Ant1



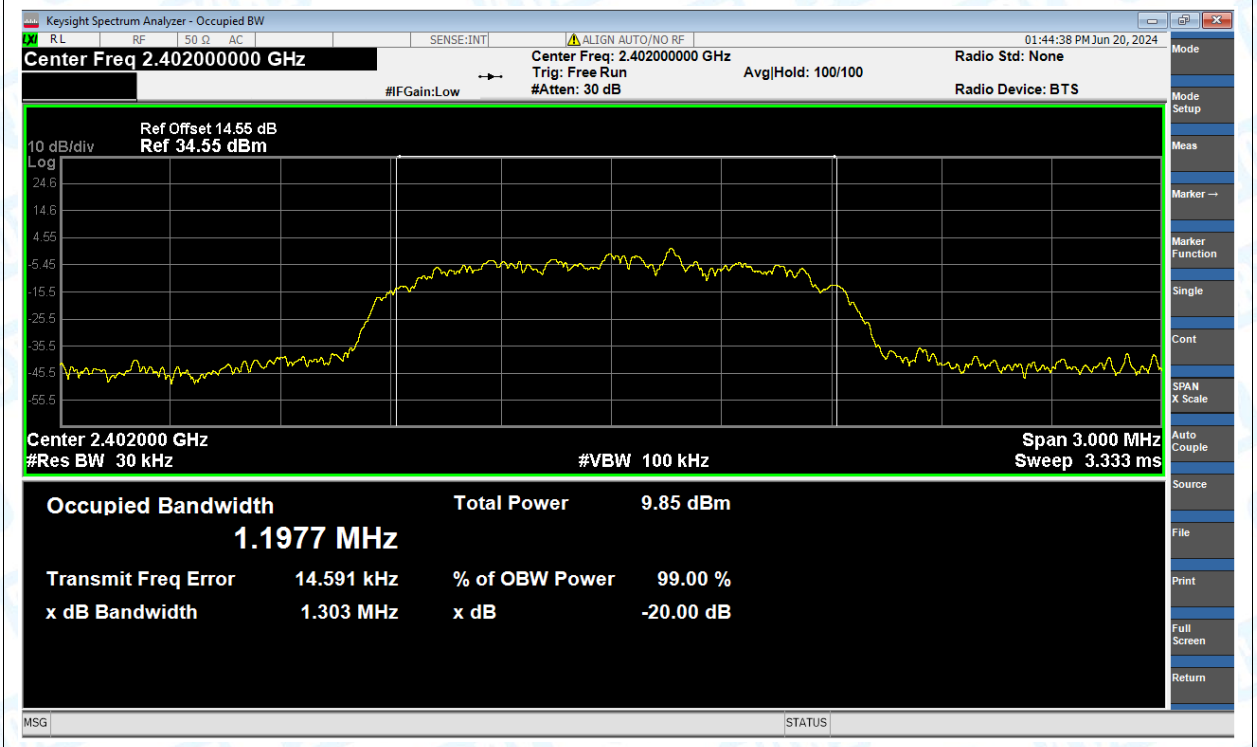
OBW NVNT 2-DH1 2441MHz Ant1



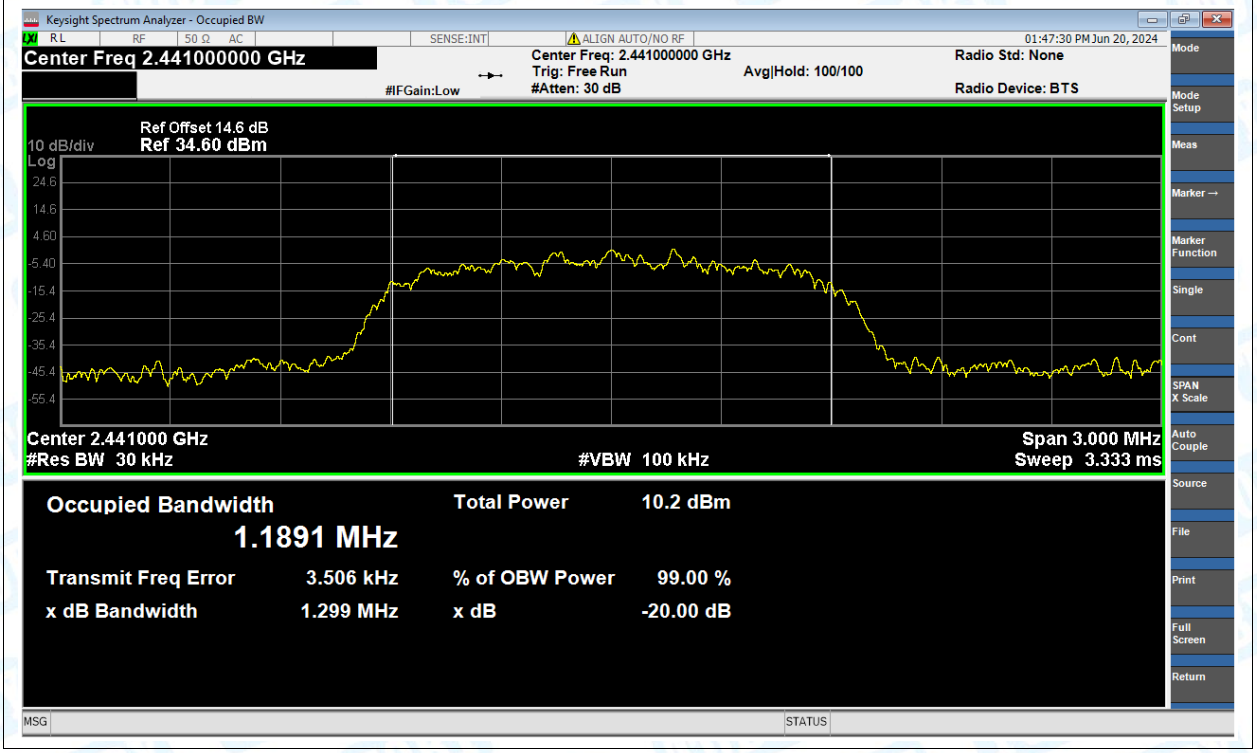
OBW NVNT 2-DH1 2480MHz Ant1



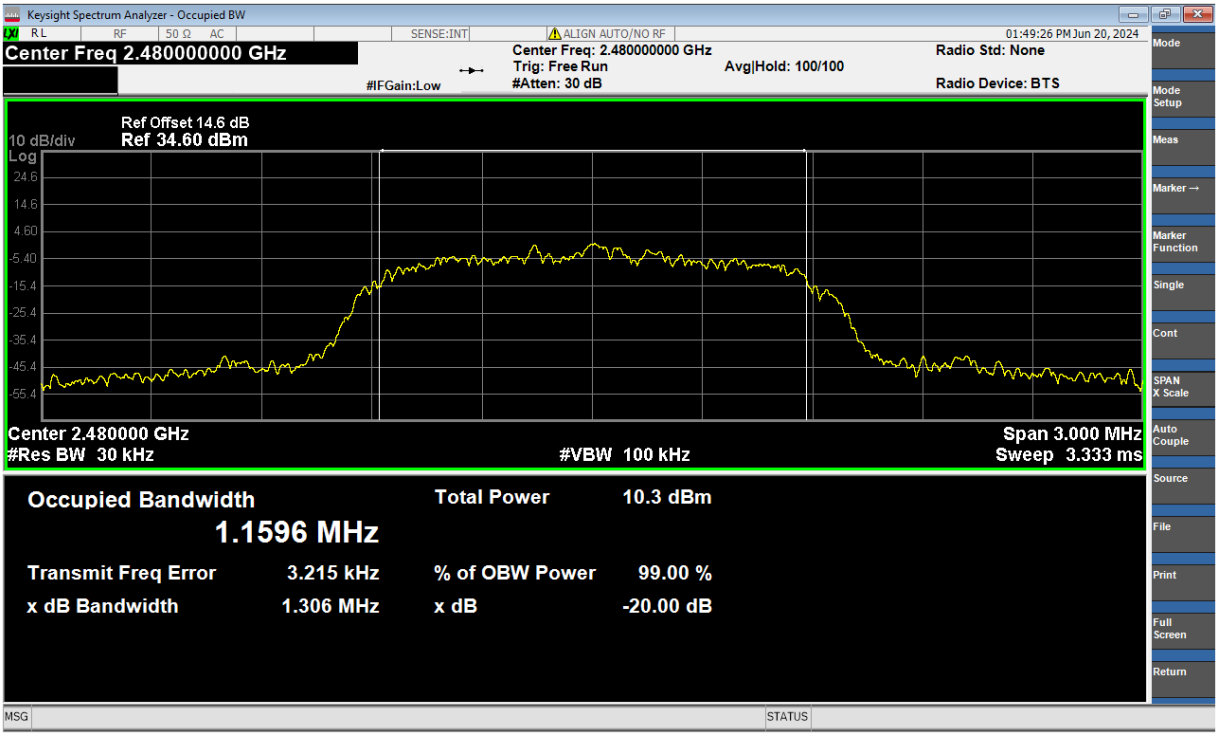
OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



OBW NVNT 3-DH1 2480MHz Ant1

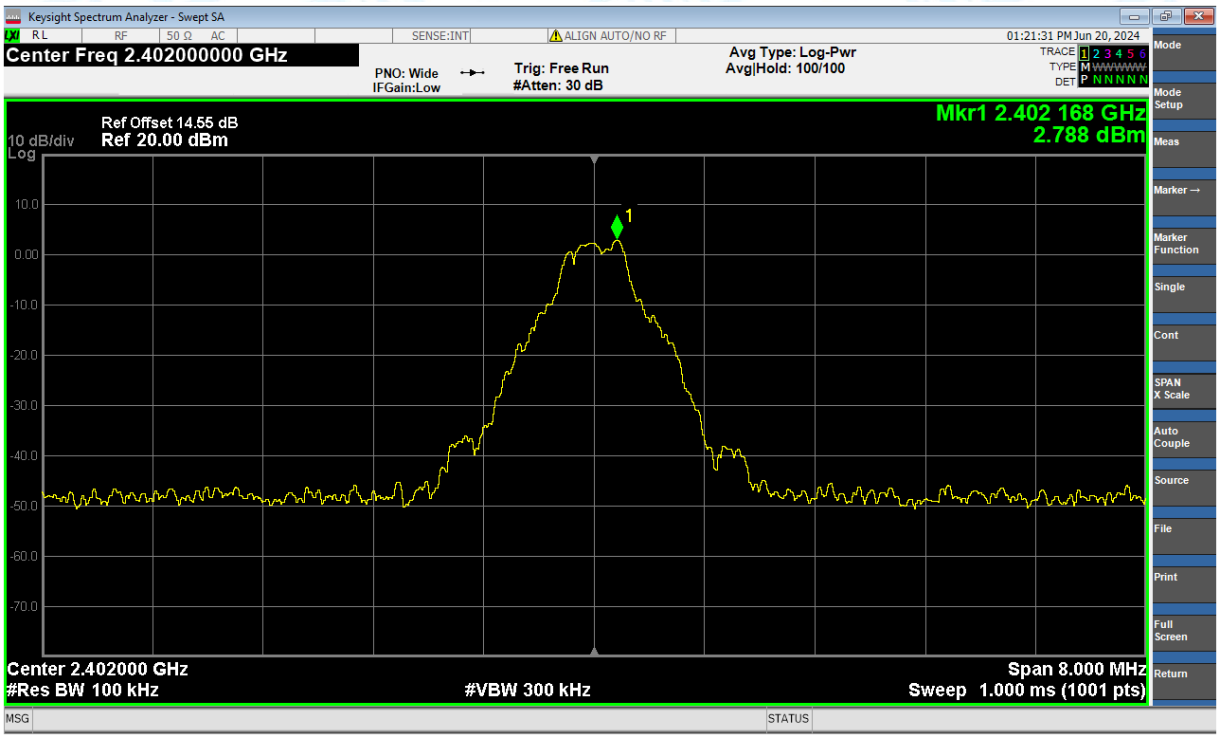


5. Band Edge

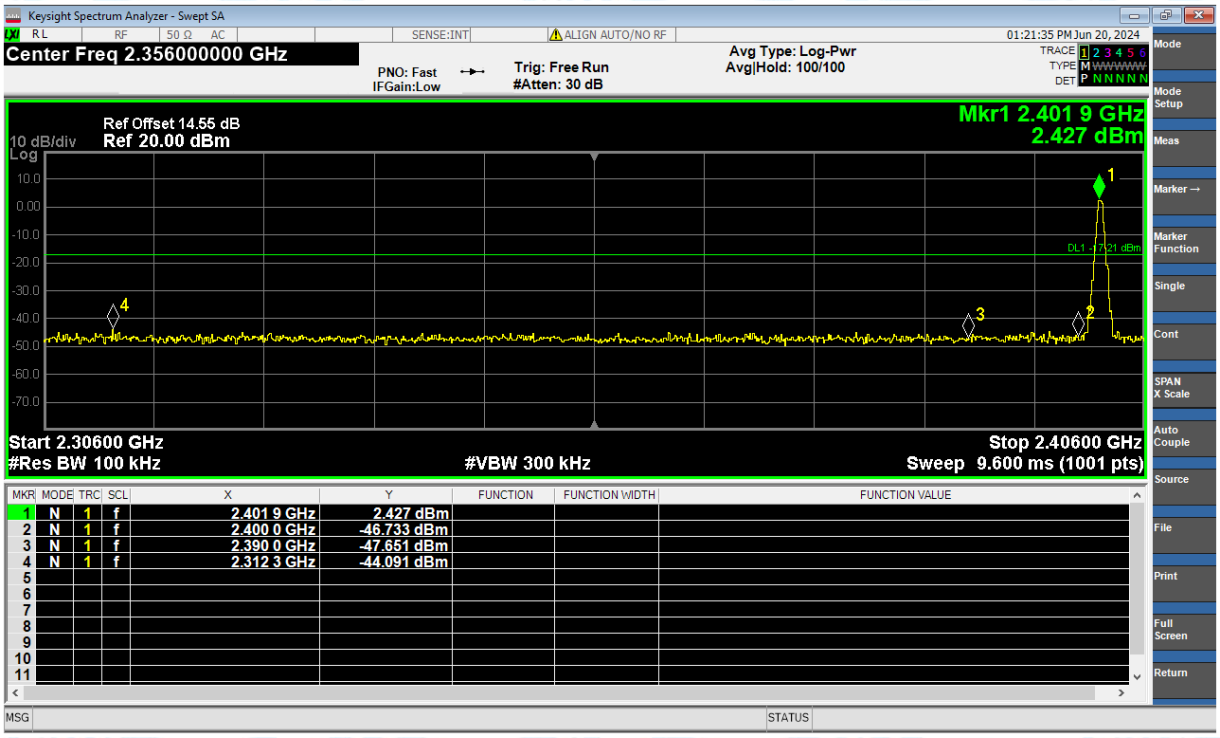
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-46.88	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-47.87	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-46.95	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-47.71	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-46.31	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-46.93	-20	Pass

Test Graphs

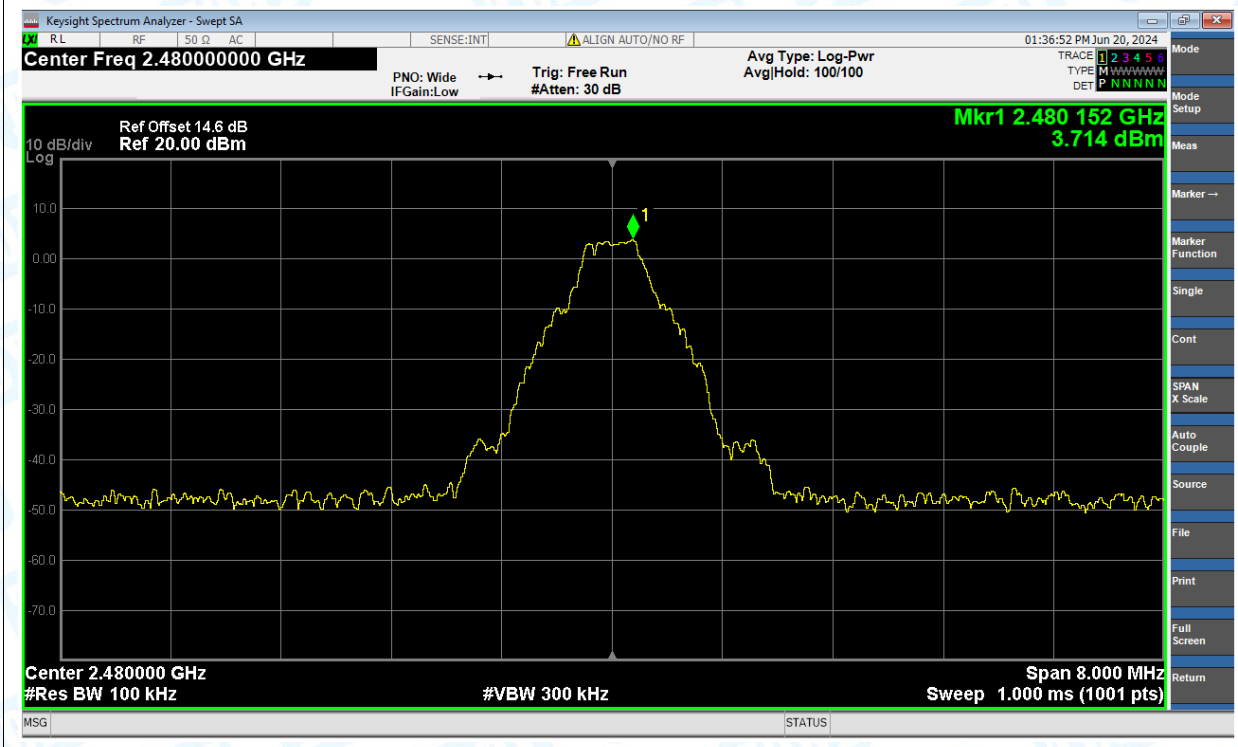
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



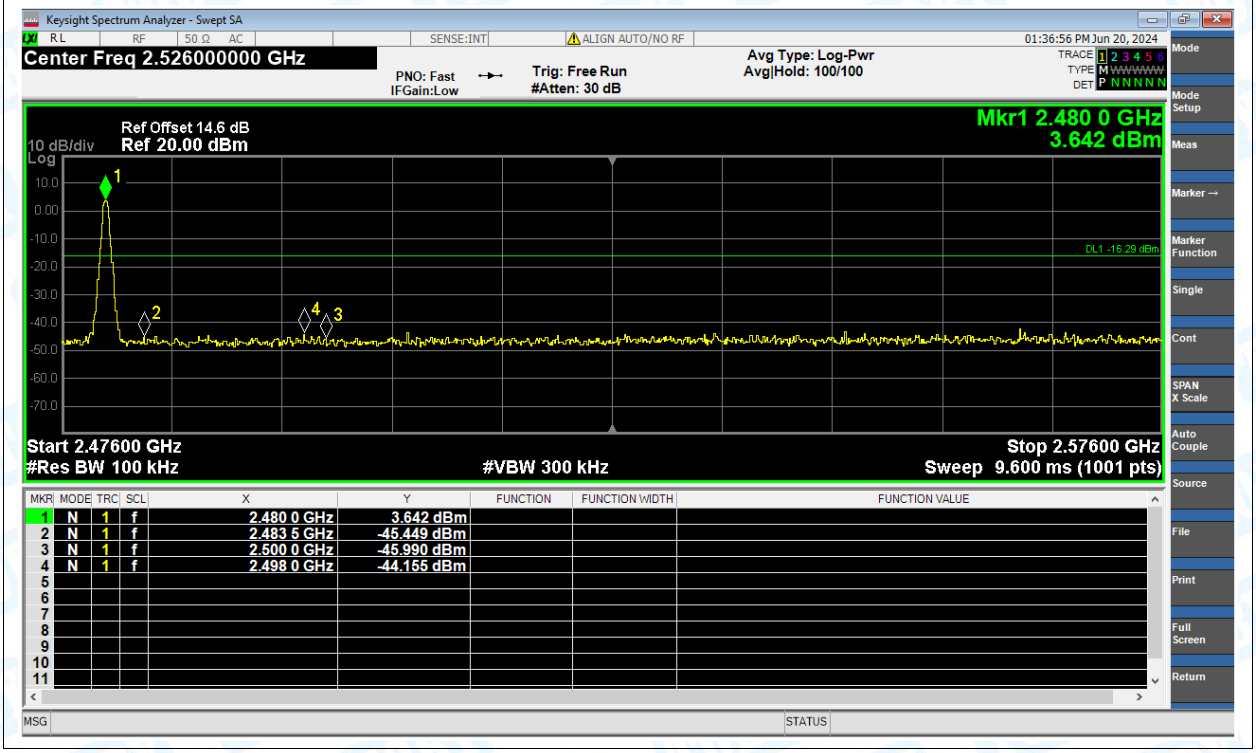
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



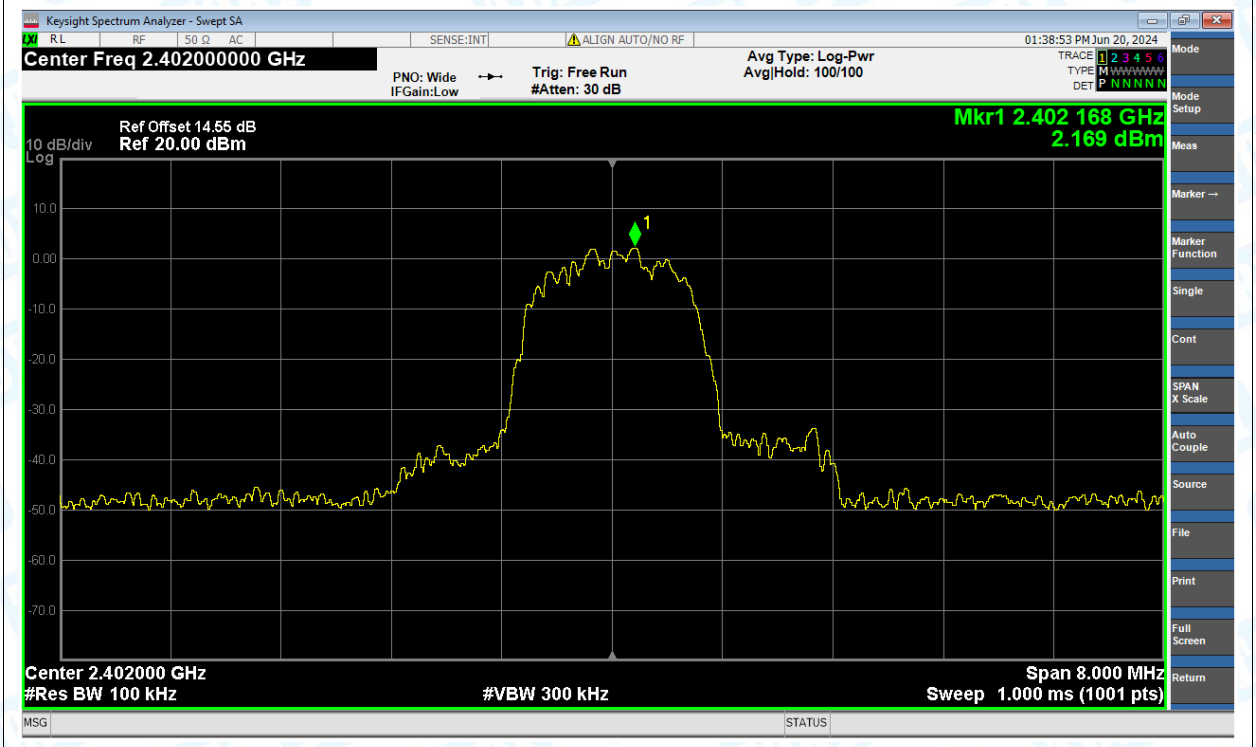
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



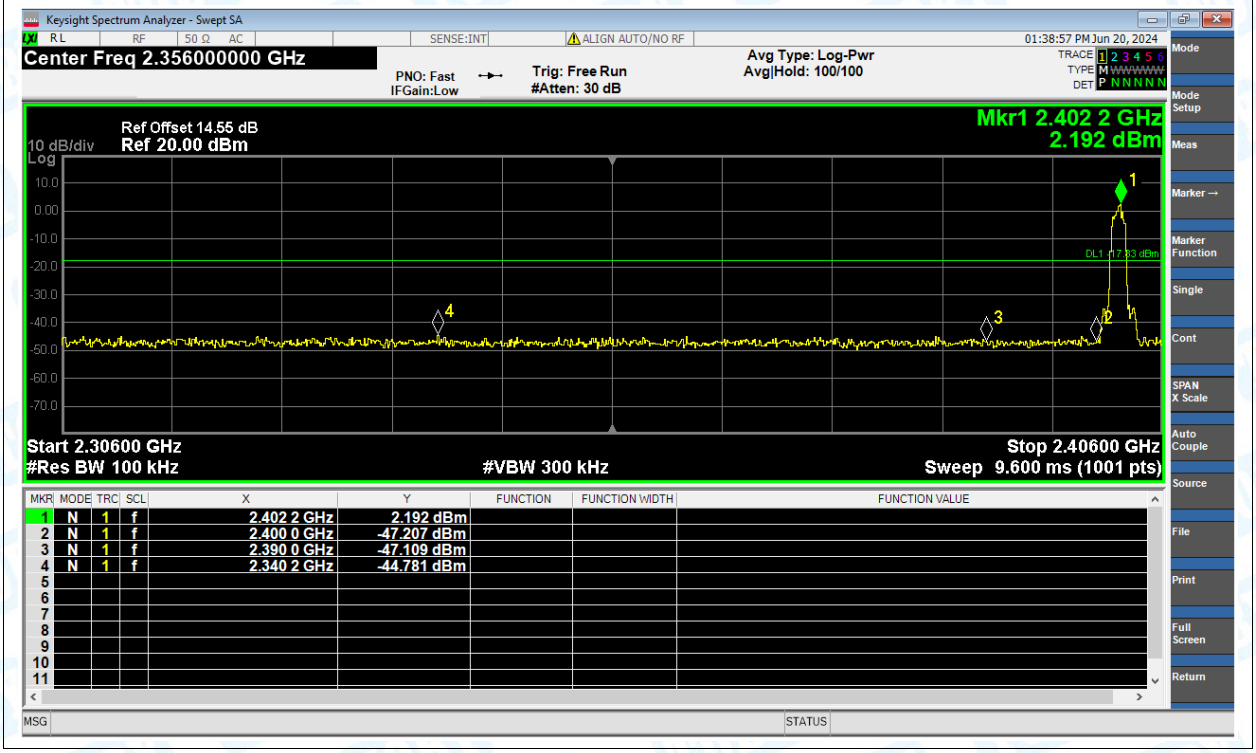
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



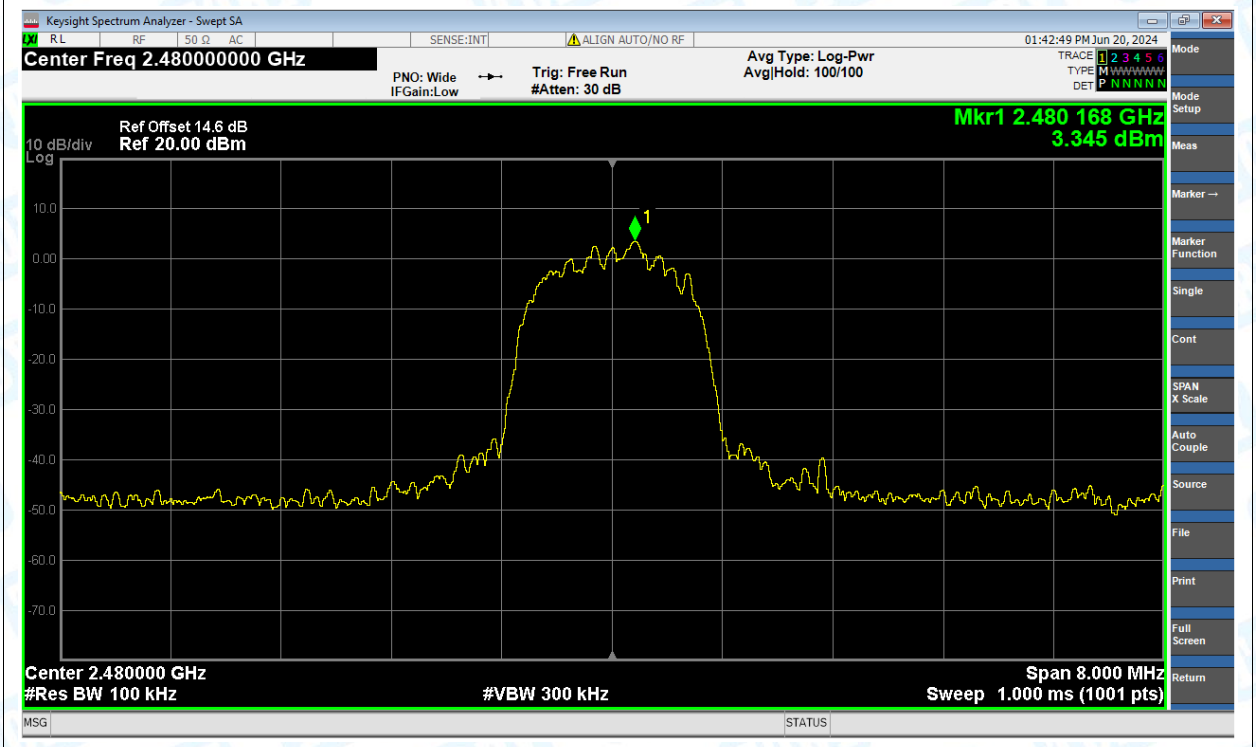
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



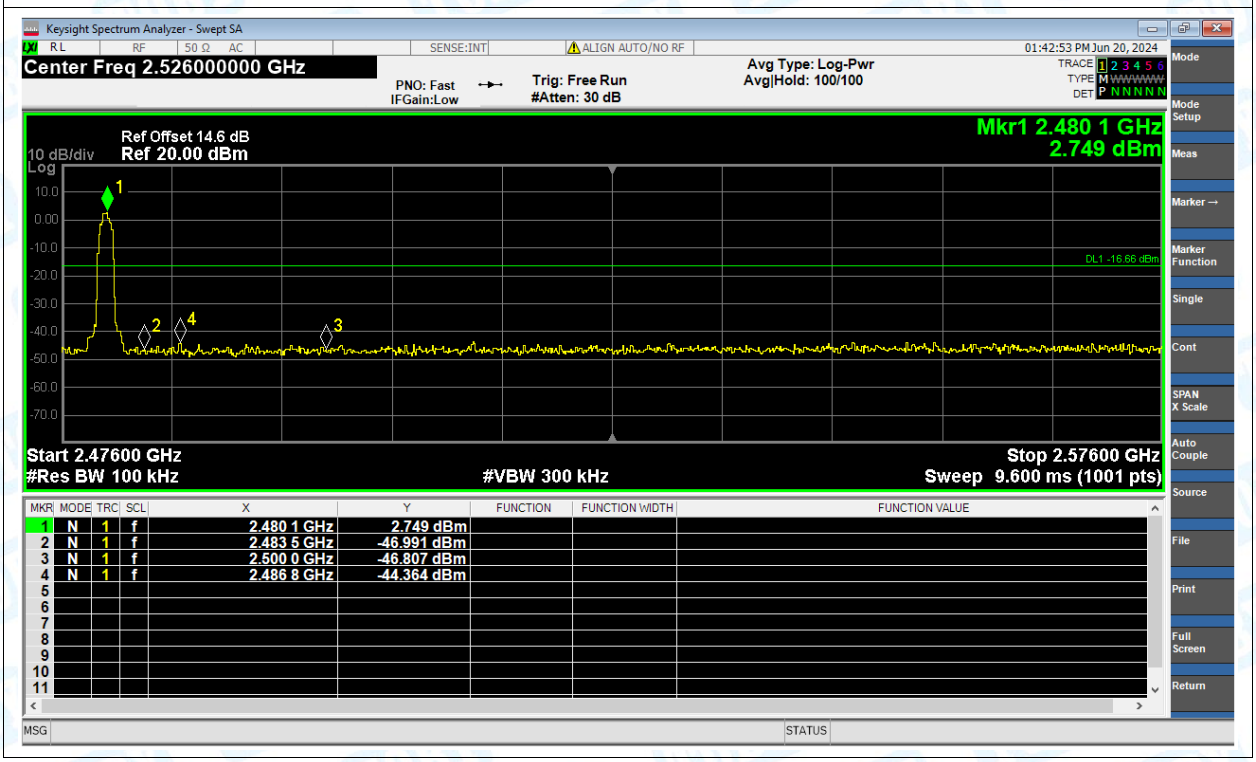
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



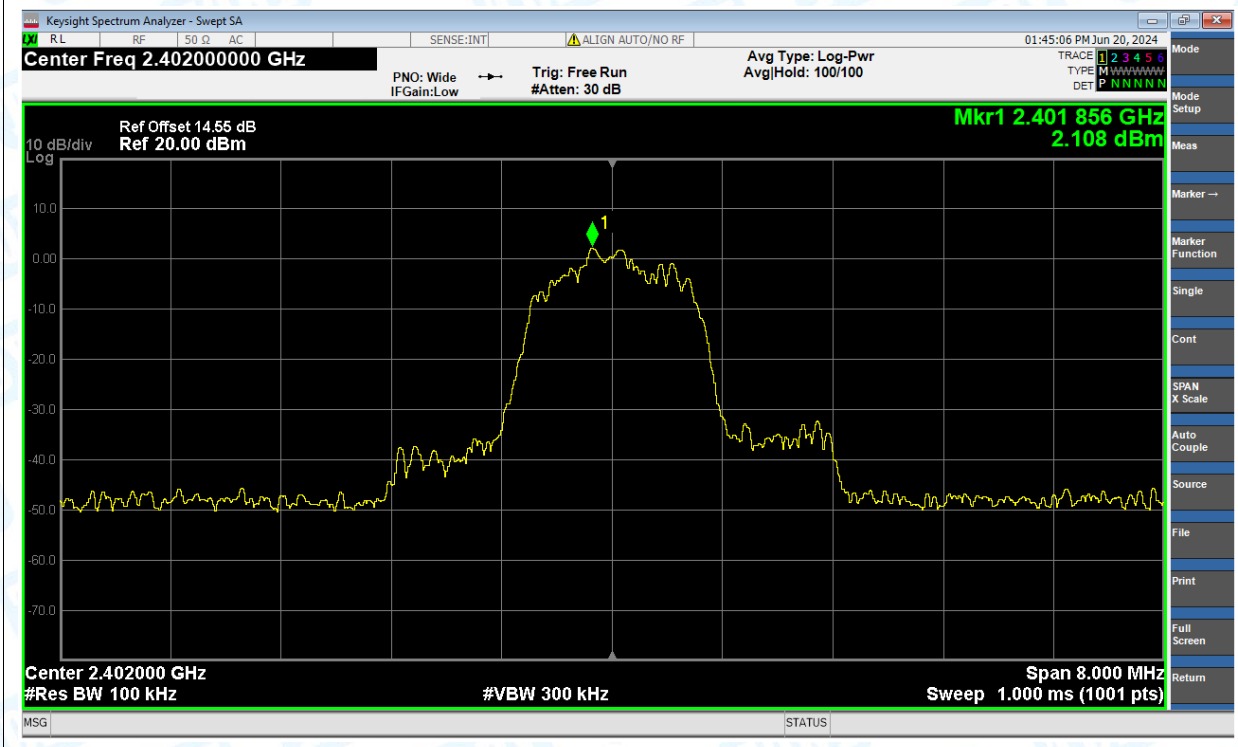
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



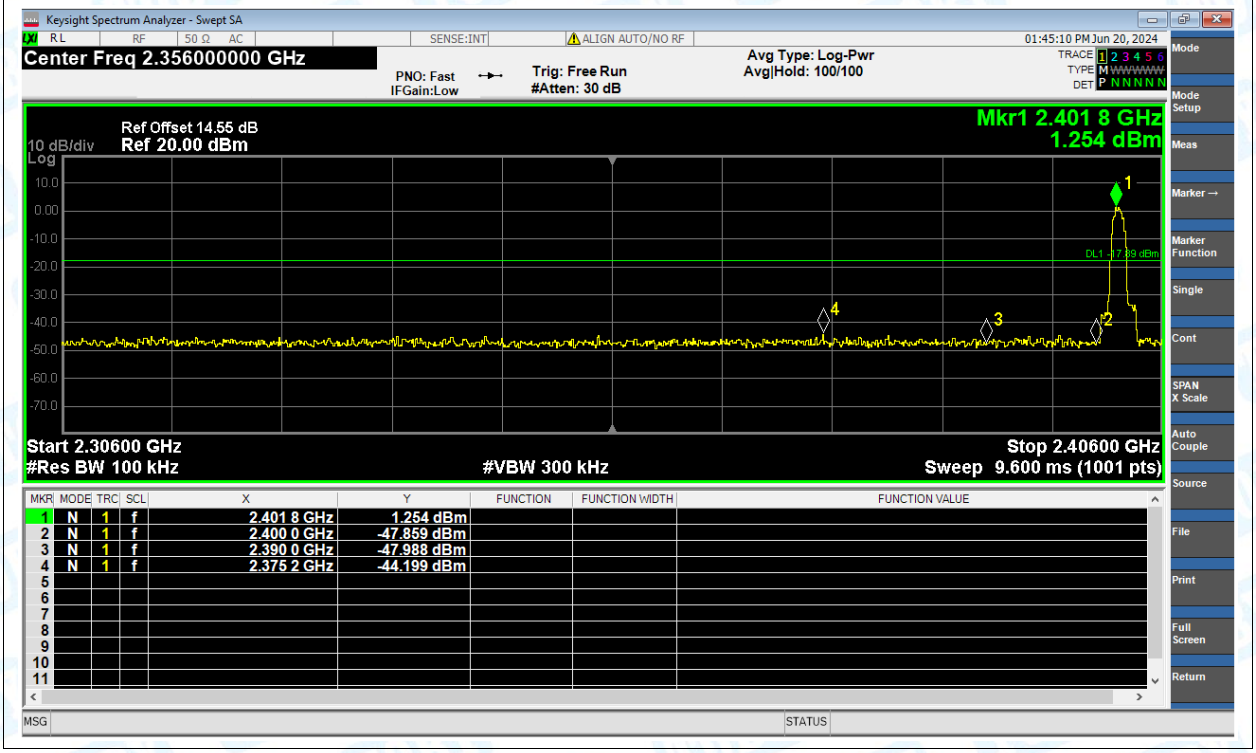
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



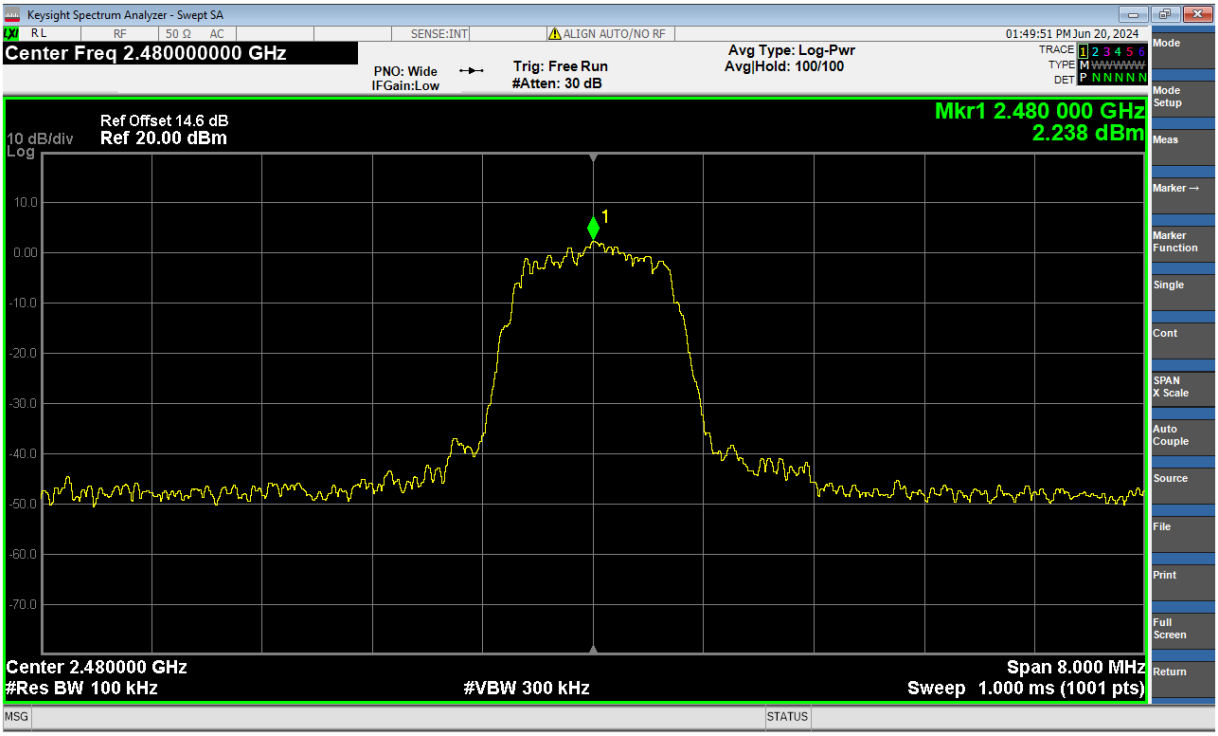
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



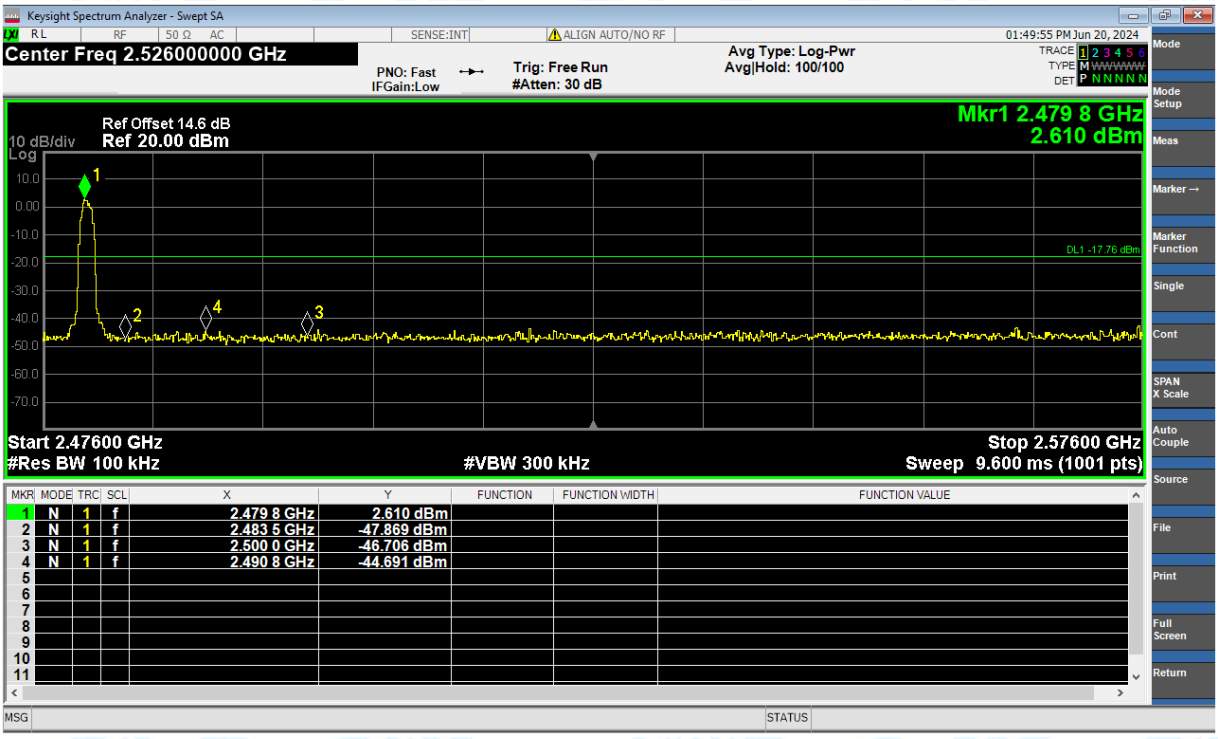
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

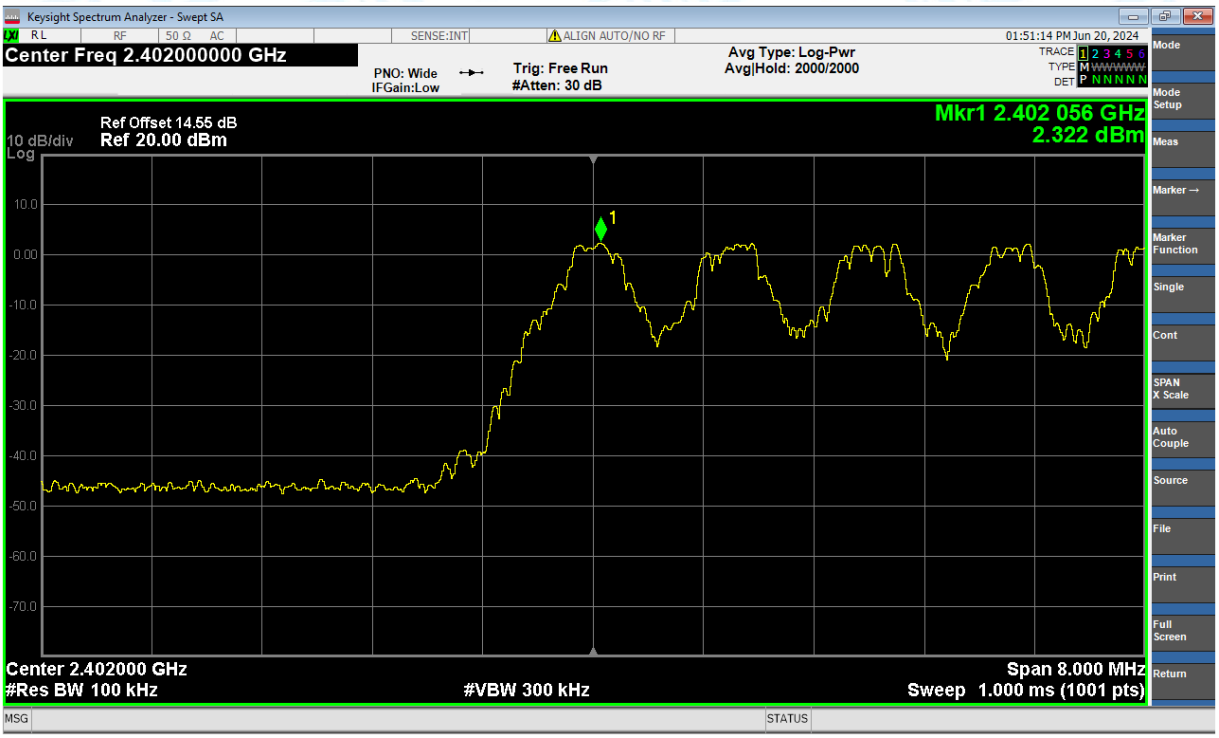


6. Band Edge(Hopping)

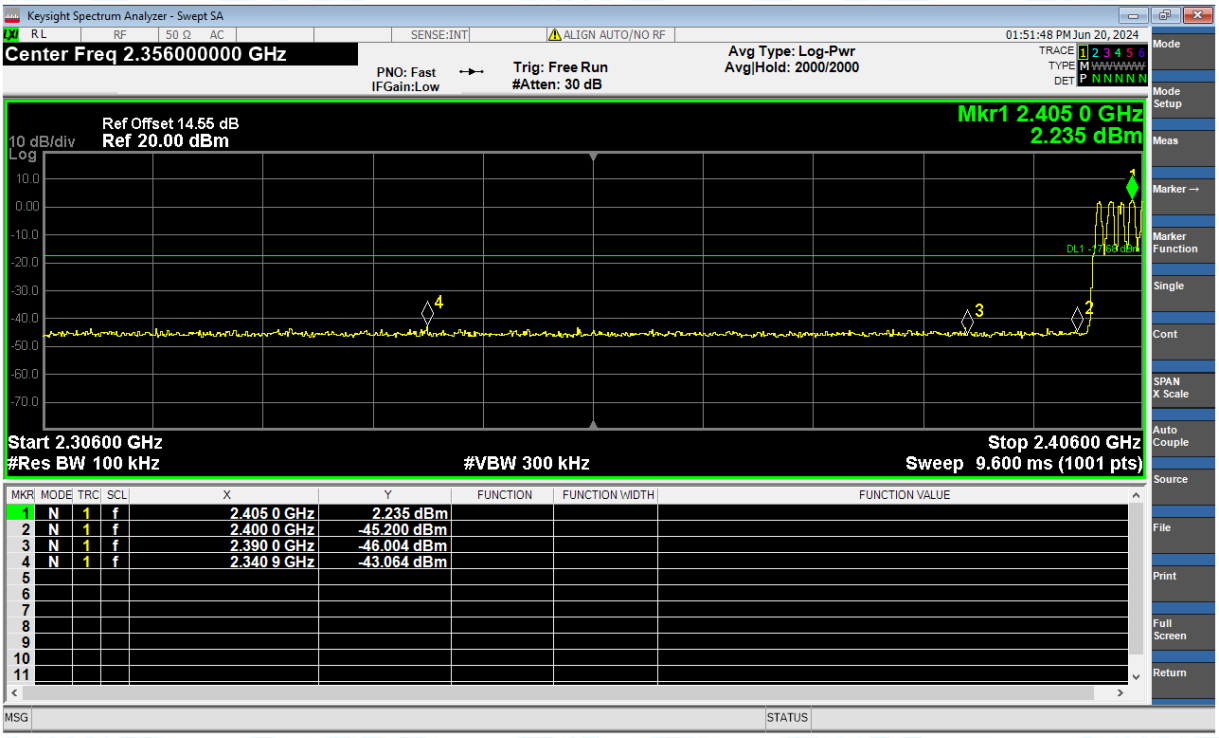
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-45.38	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-47.33	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-45.47	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-46.61	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-45.17	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-46.64	-20	Pass

Test Graphs

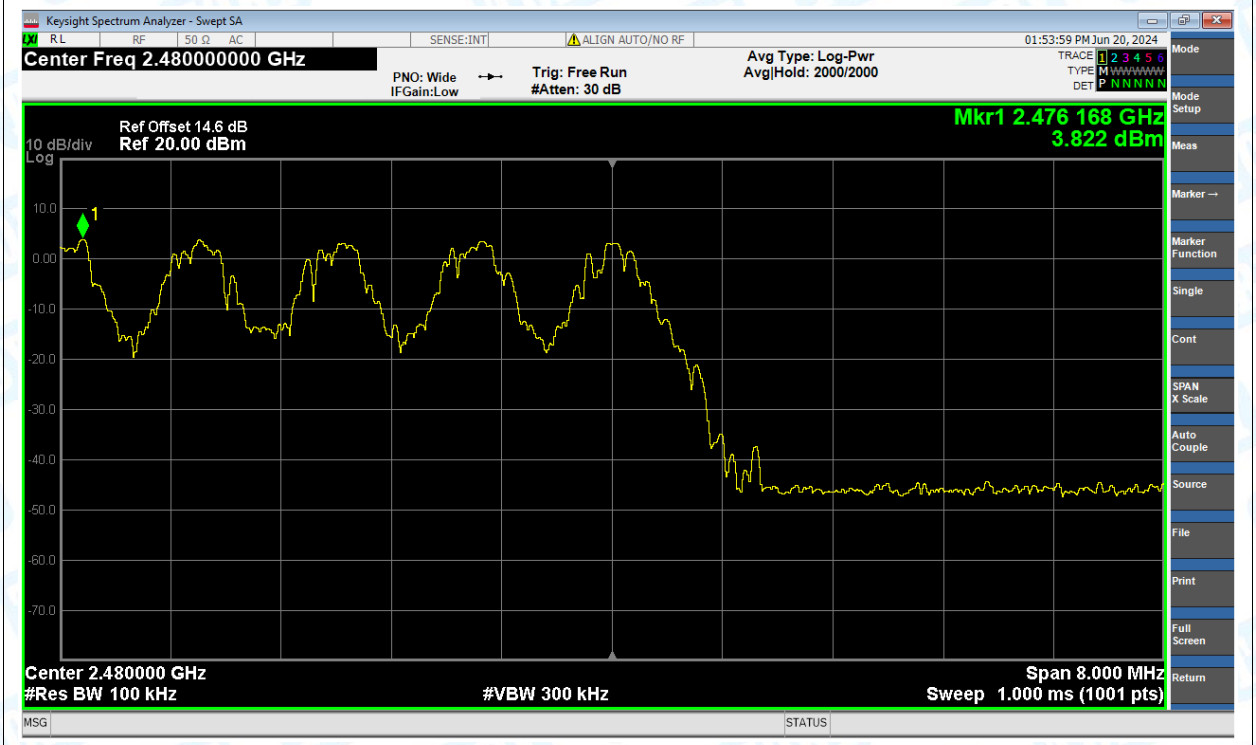
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



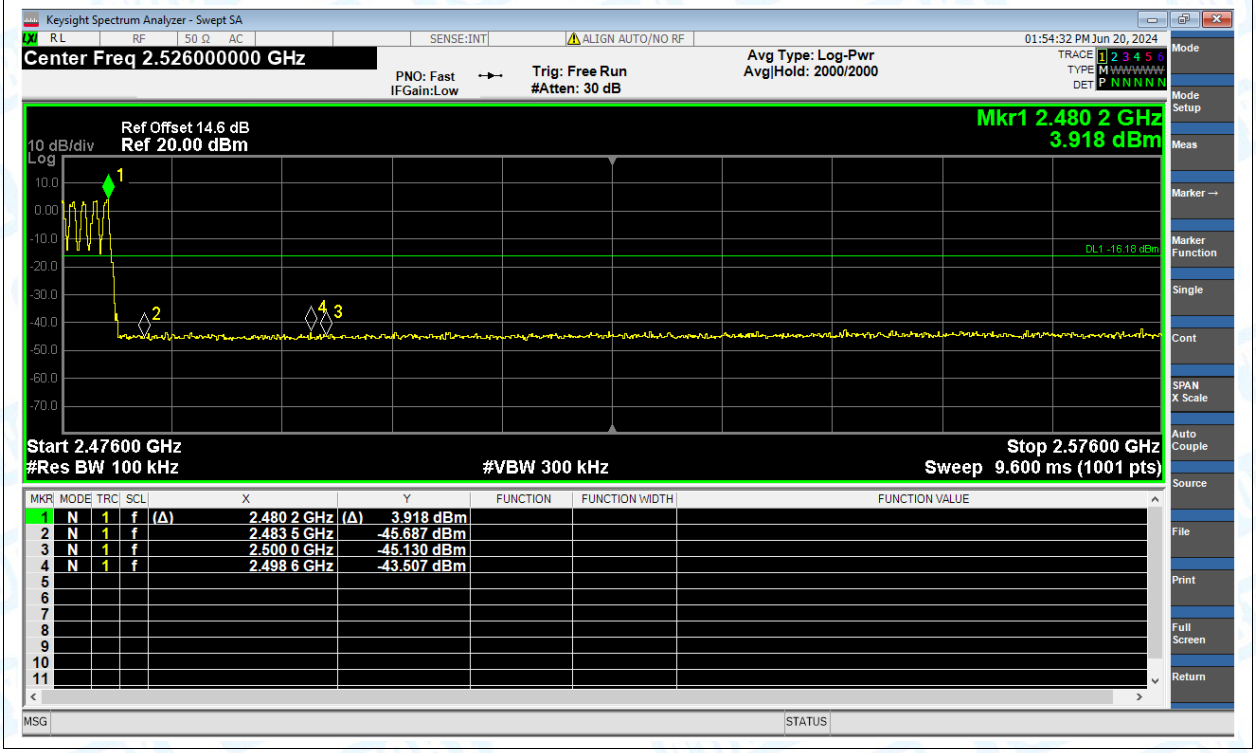
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



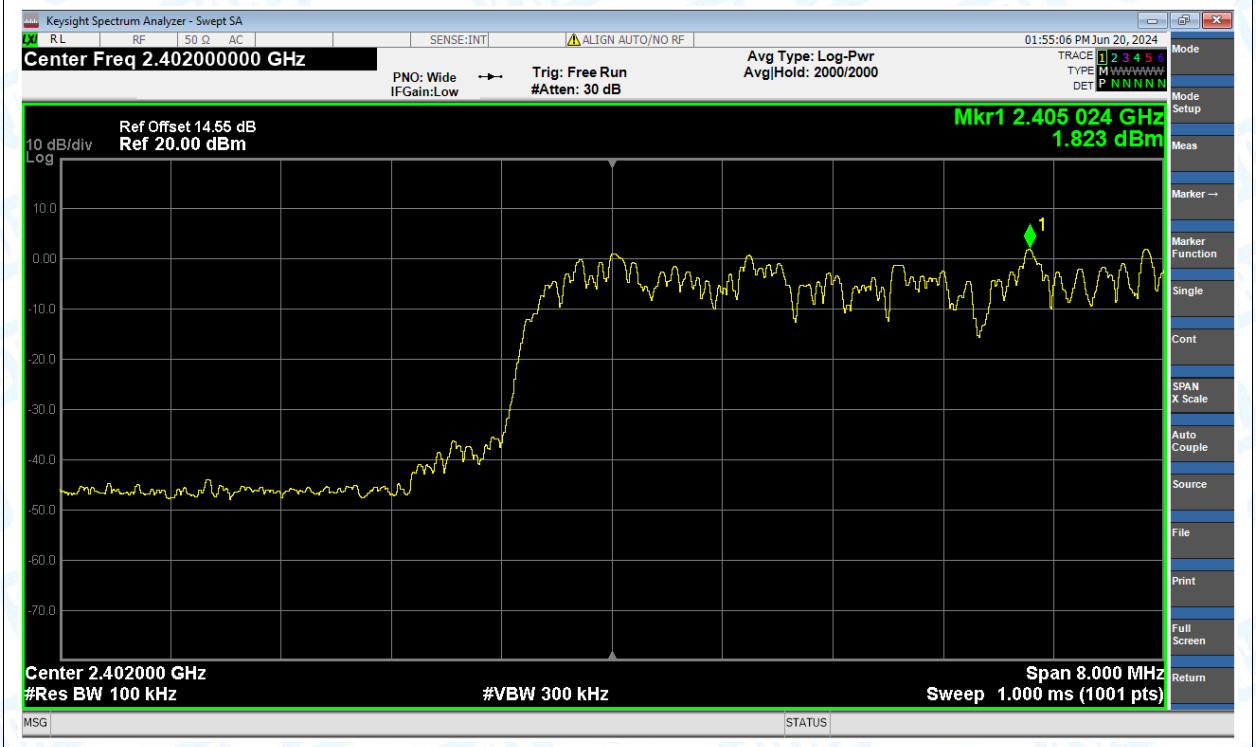
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



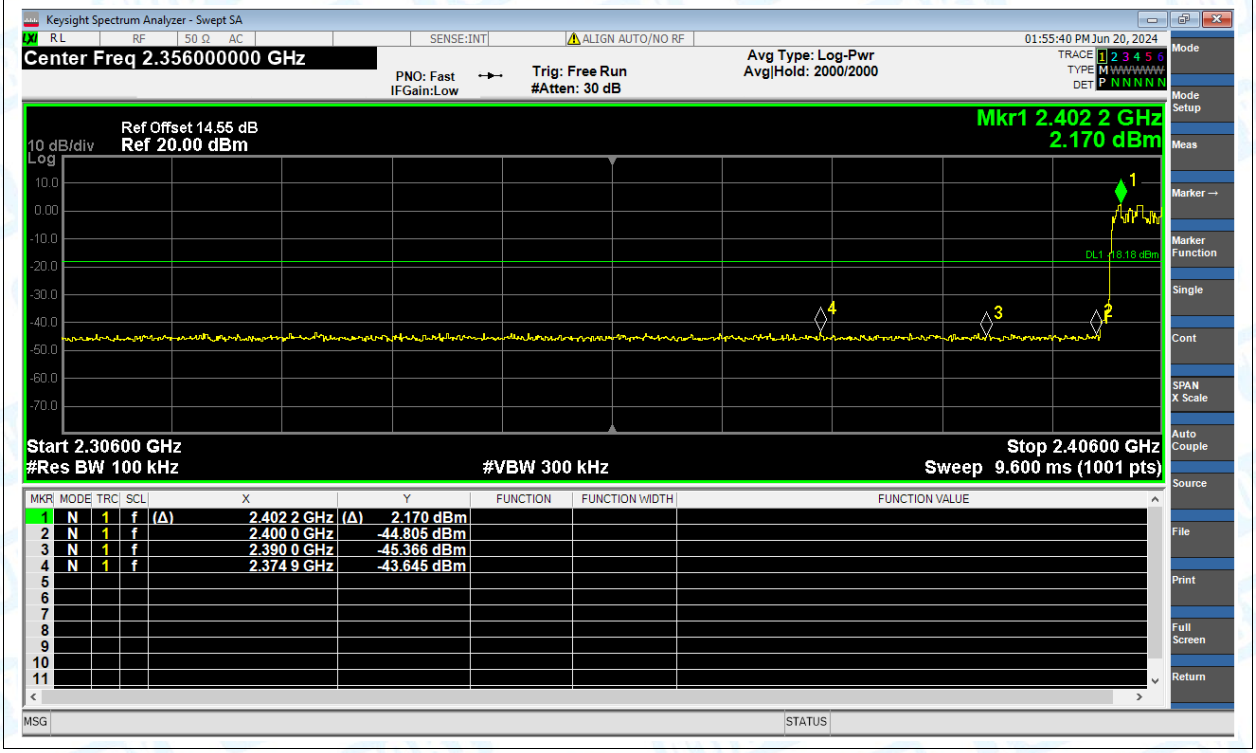
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



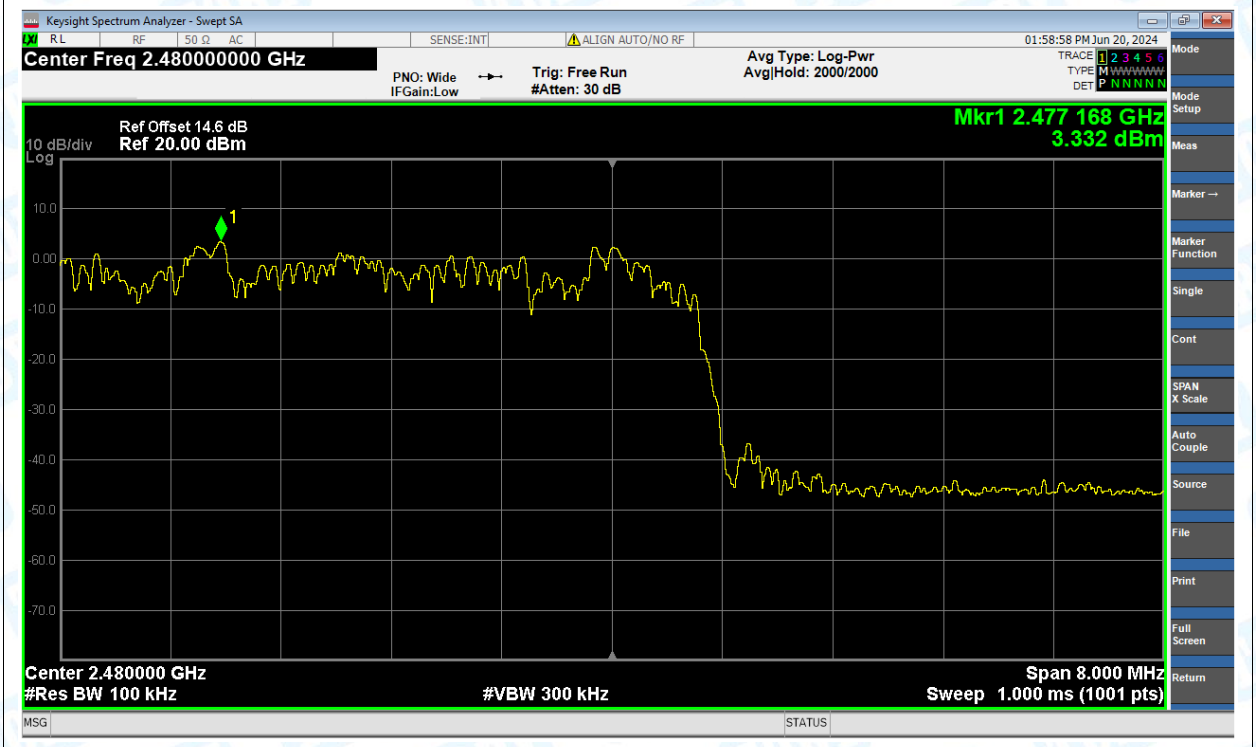
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



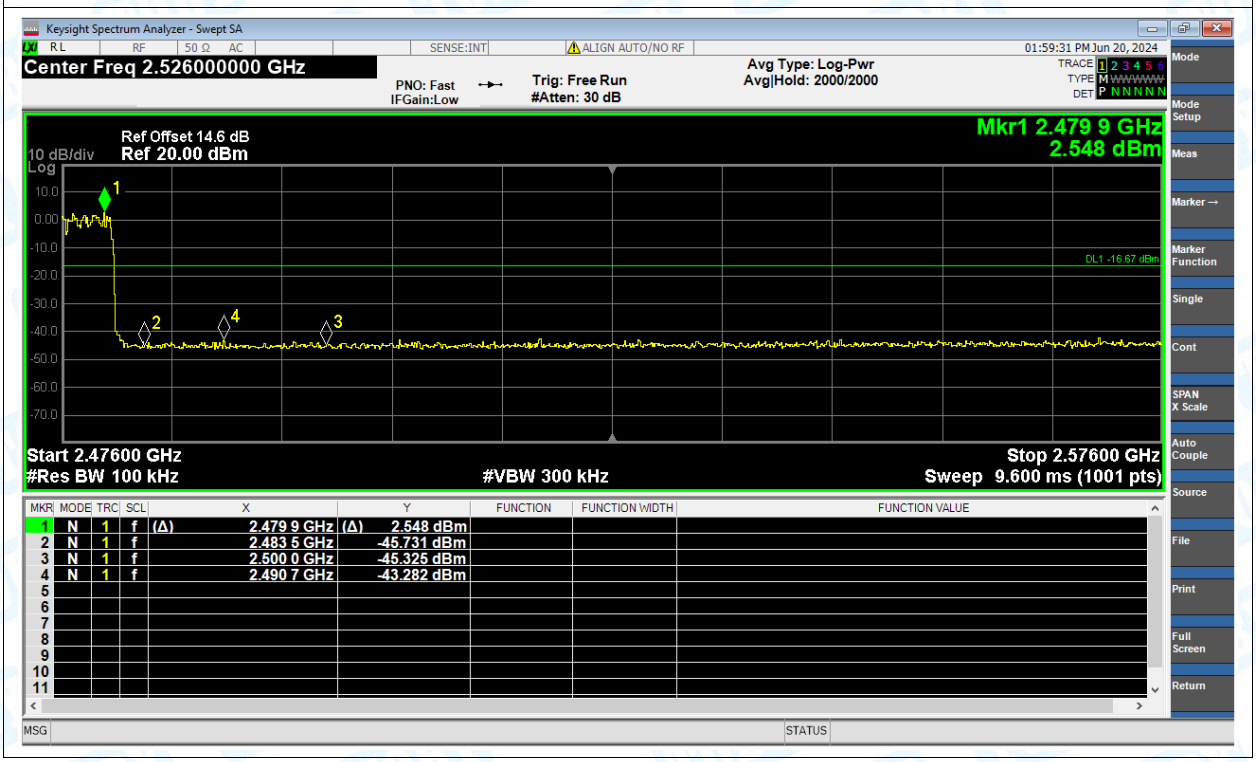
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



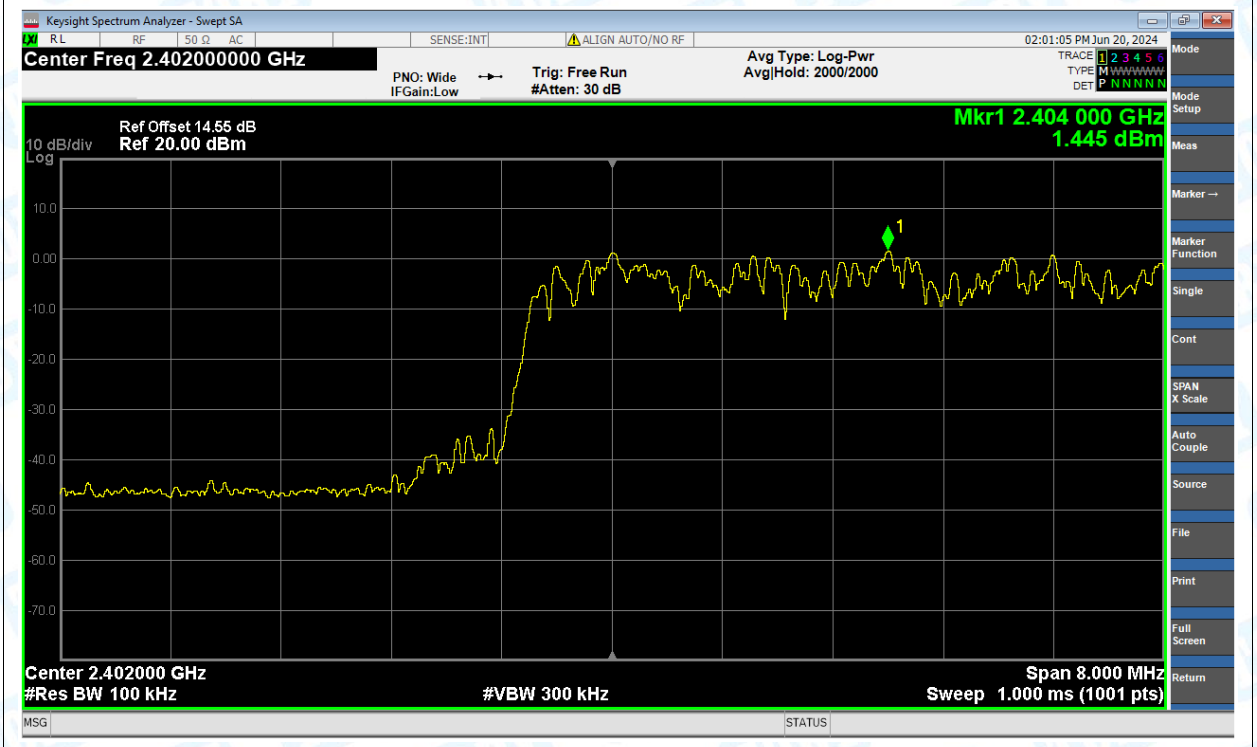
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



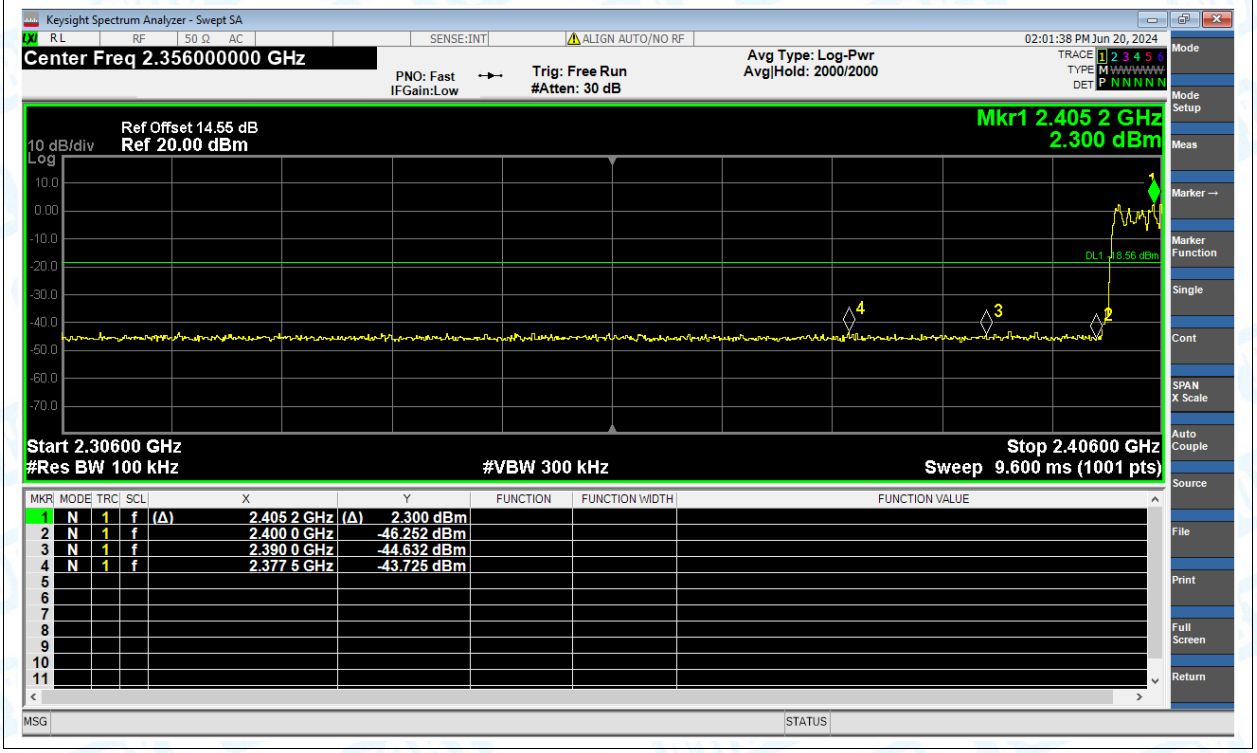
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



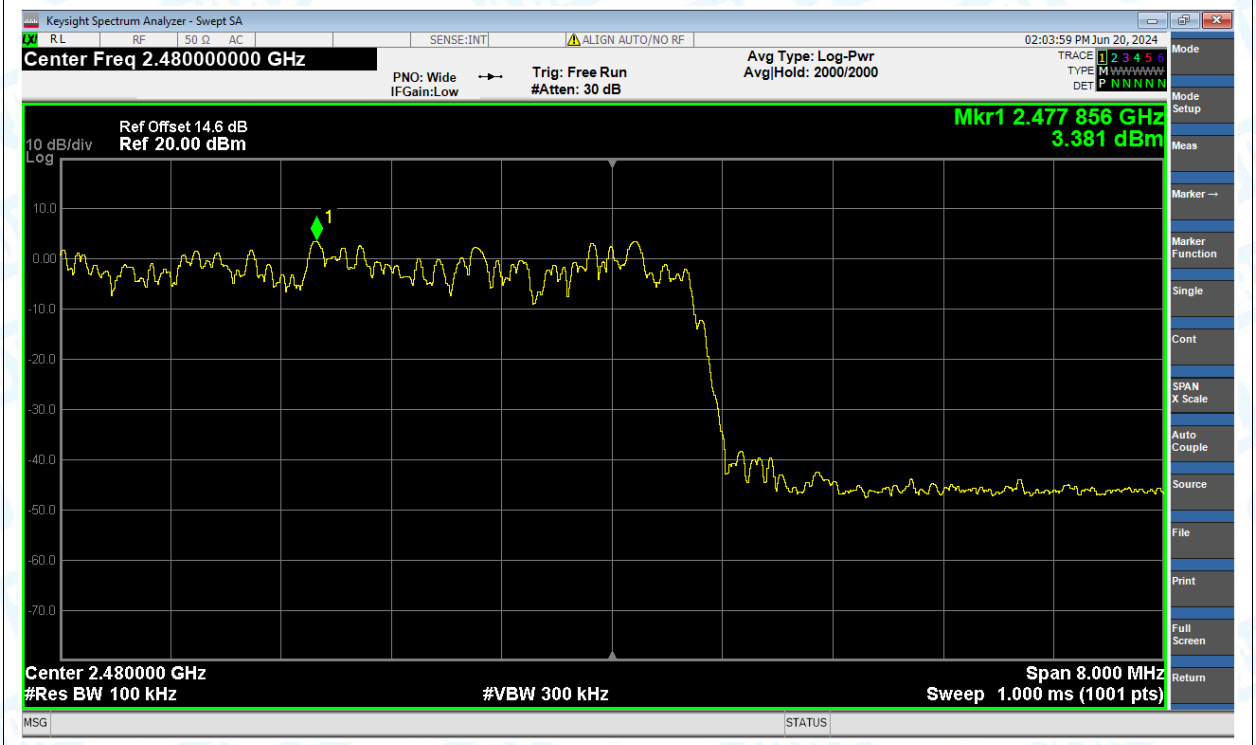
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



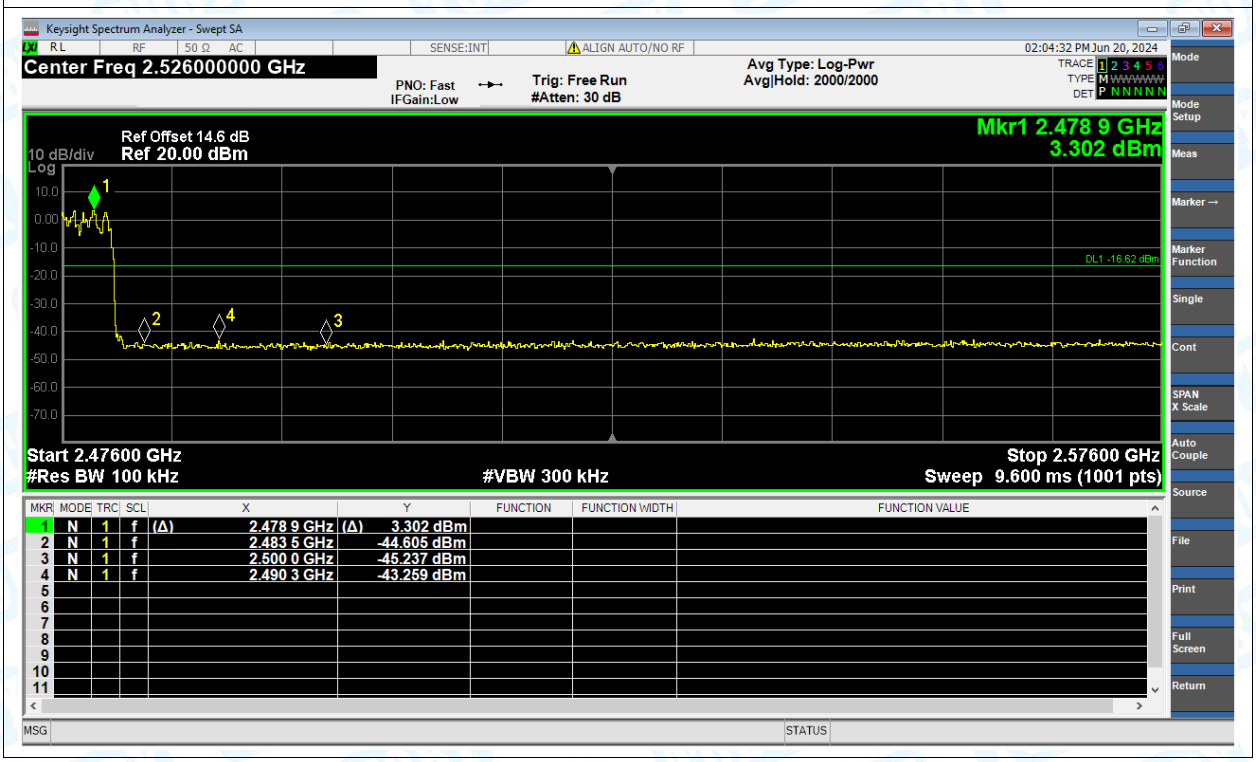
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

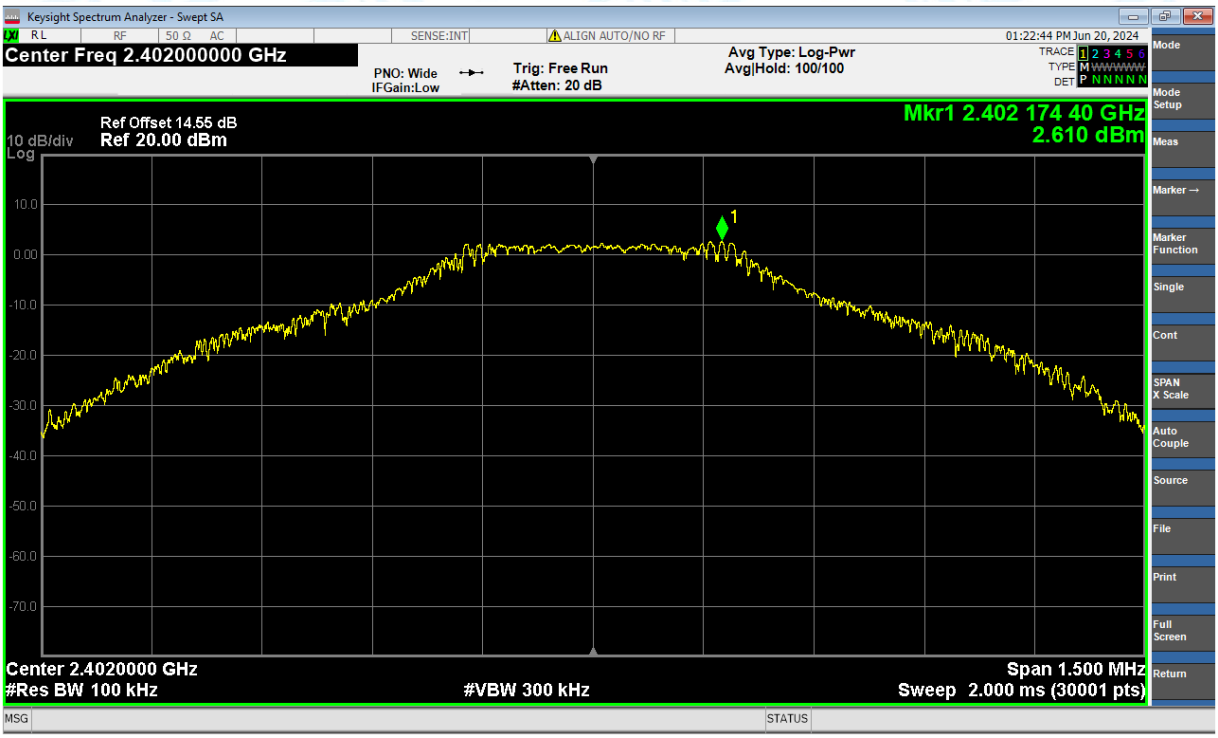


7. Conducted RF Spurious Emission

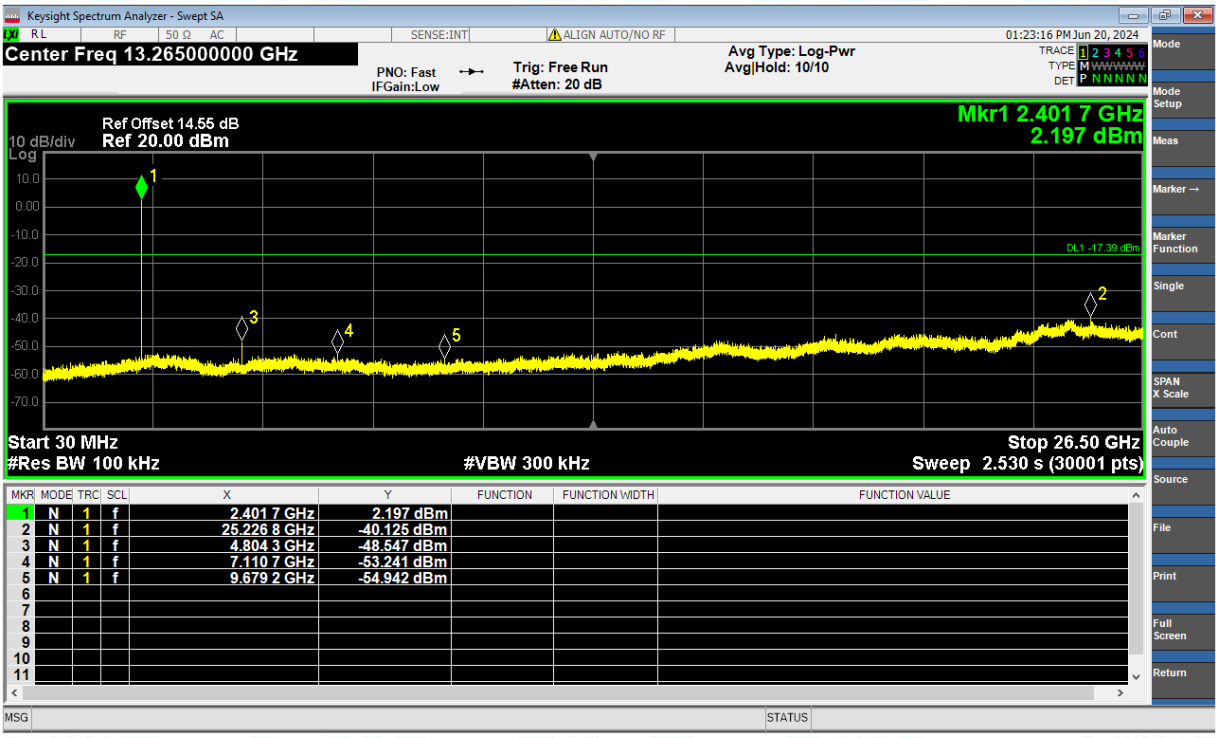
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-42.73	-20	Pass
NVNT	1-DH1	2441	Ant1	-43.52	-20	Pass
NVNT	1-DH1	2480	Ant1	-43.3	-20	Pass
NVNT	2-DH1	2402	Ant1	-41.78	-20	Pass
NVNT	2-DH1	2441	Ant1	-42.55	-20	Pass
NVNT	2-DH1	2480	Ant1	-42.99	-20	Pass
NVNT	3-DH1	2402	Ant1	-41.47	-20	Pass
NVNT	3-DH1	2441	Ant1	-43.26	-20	Pass
NVNT	3-DH1	2480	Ant1	-43.89	-20	Pass

Test Graphs

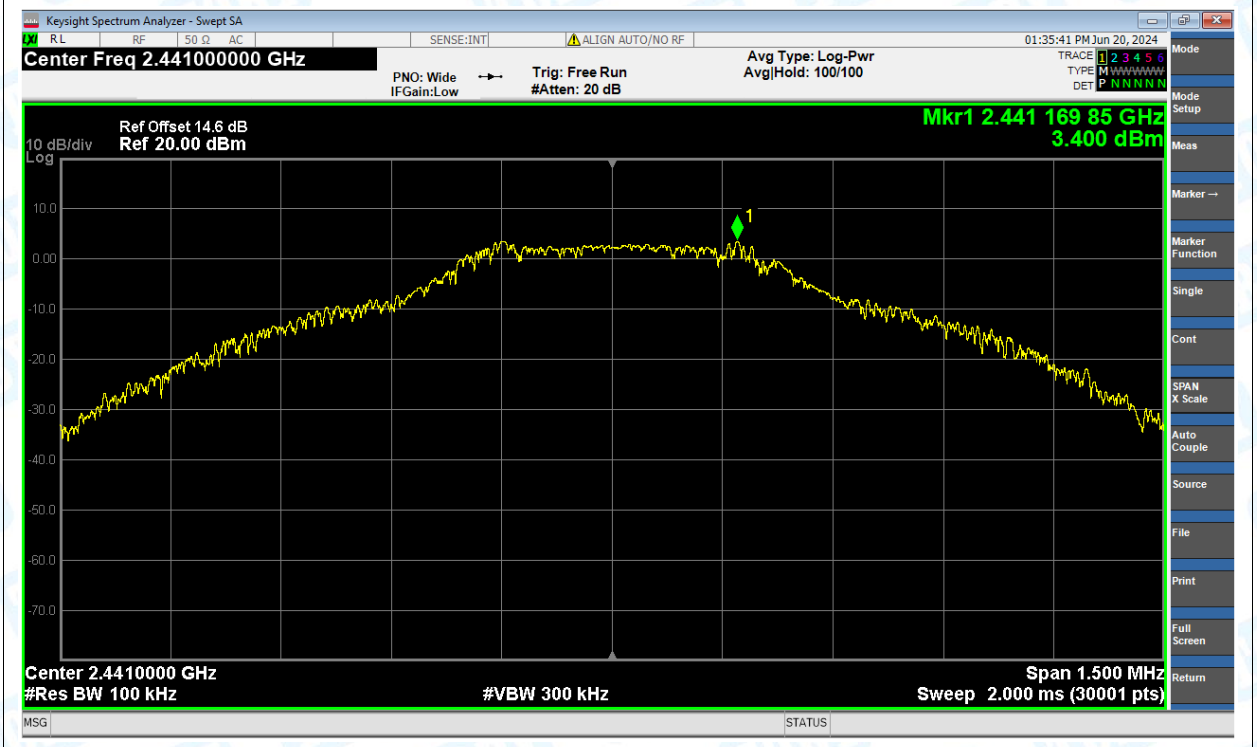
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



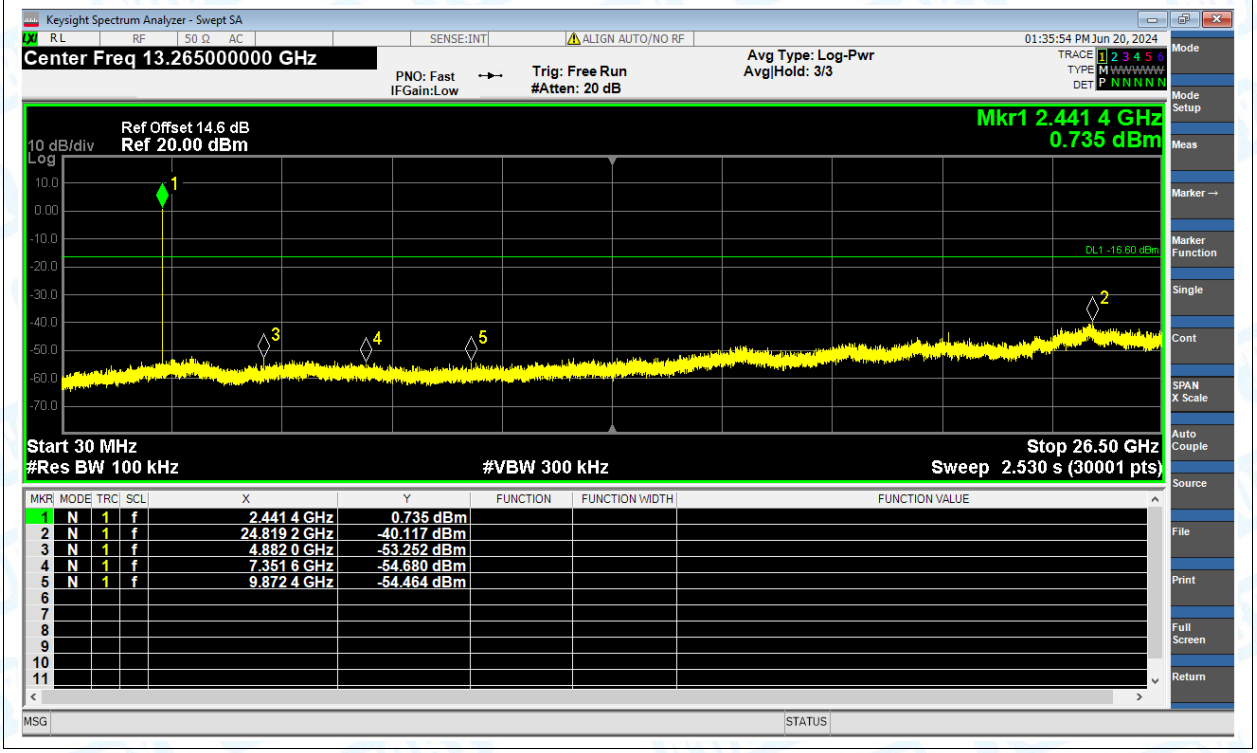
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



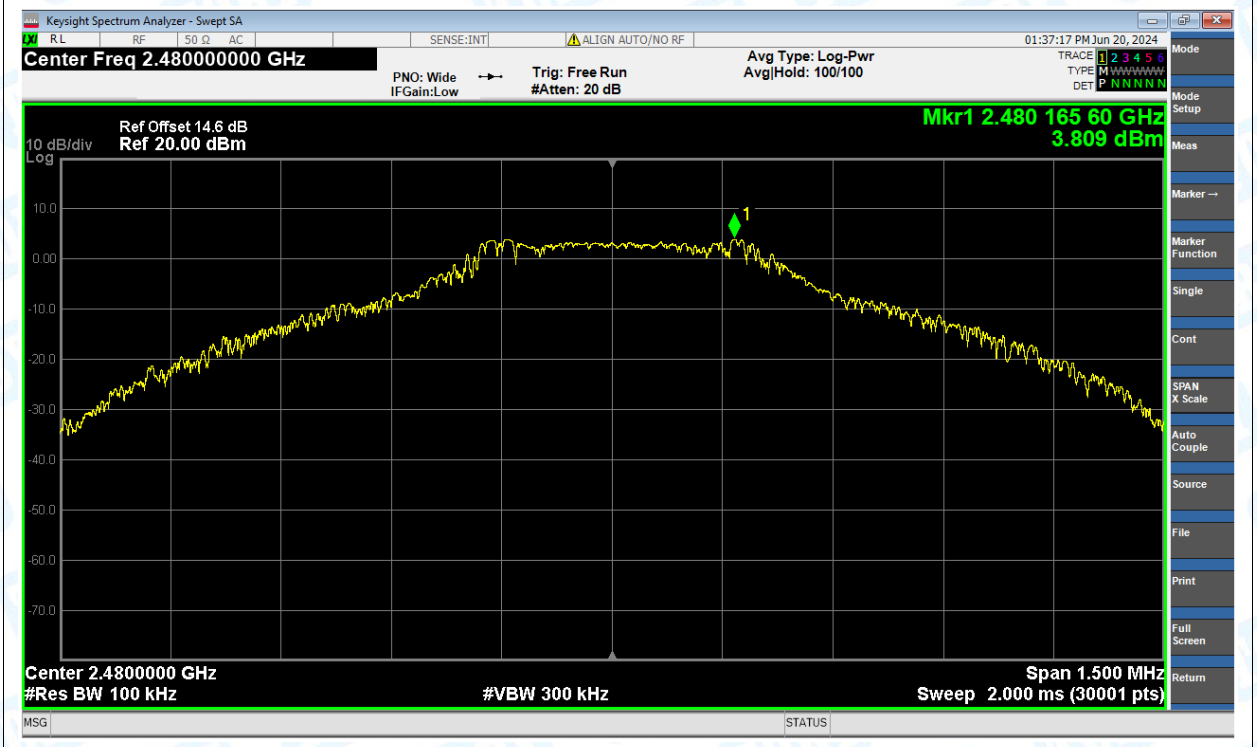
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission

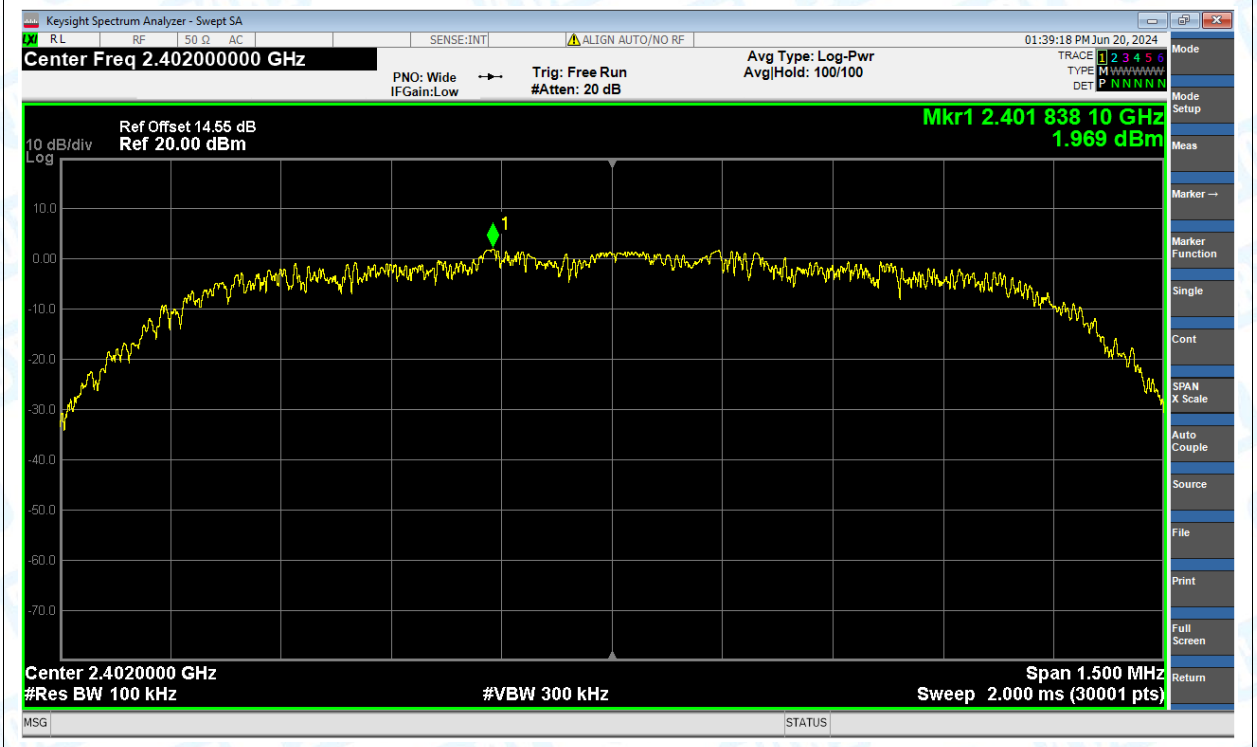


Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref

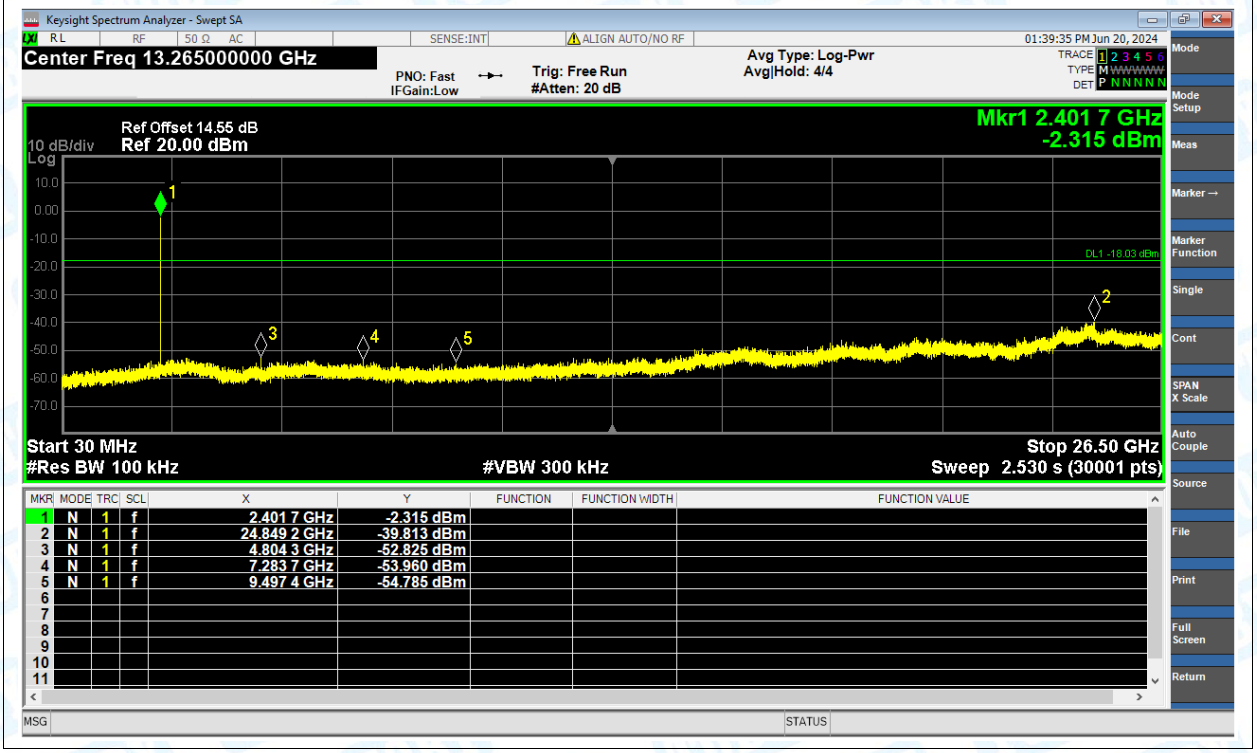


Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission

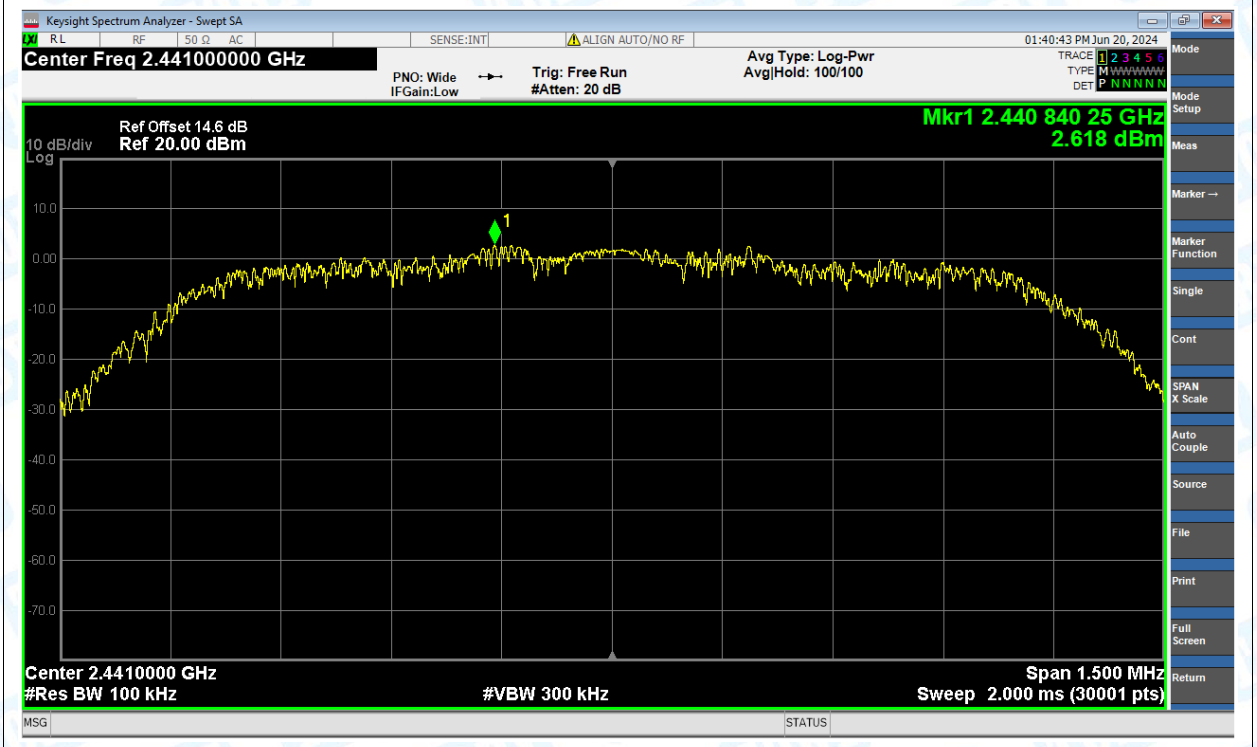
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



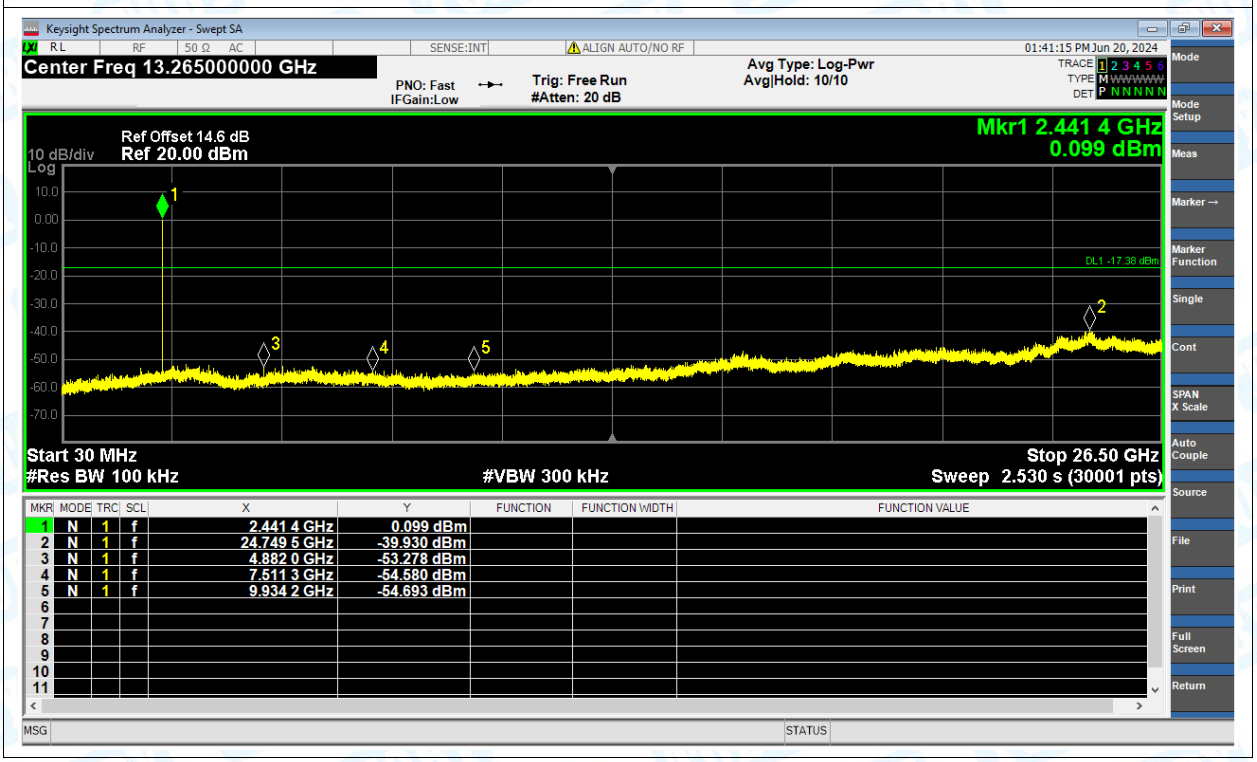
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



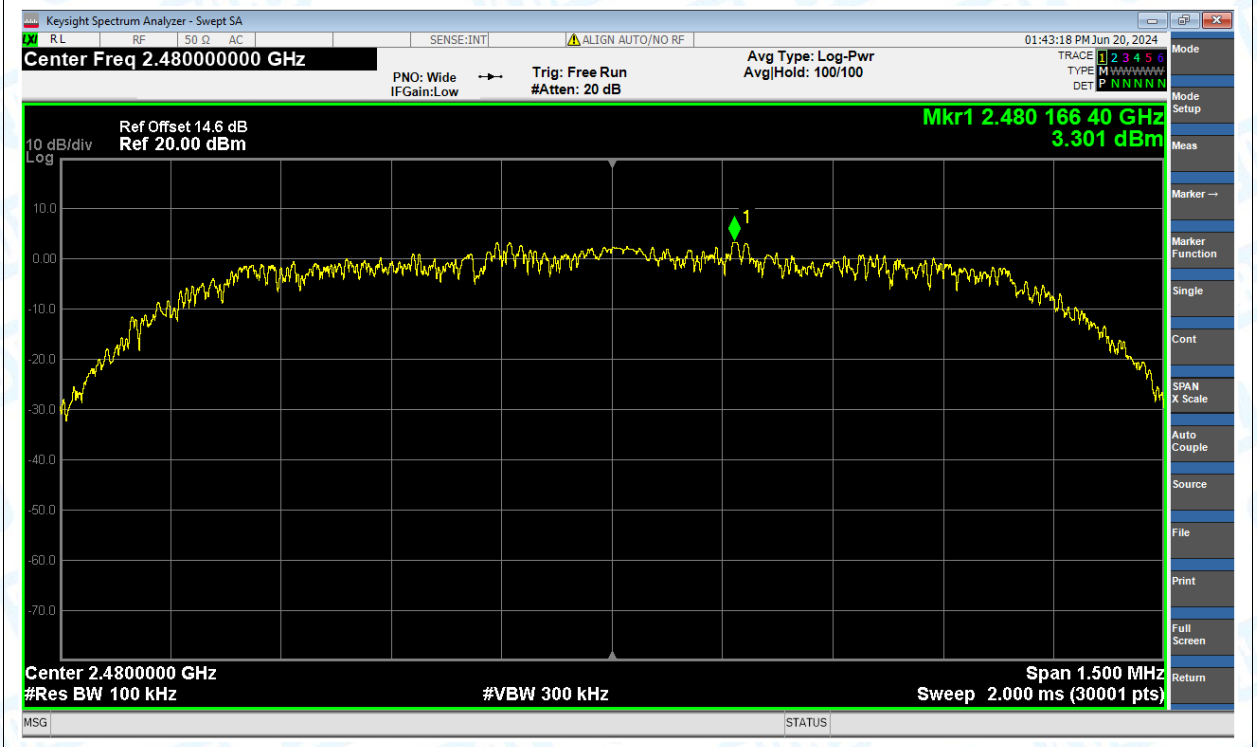
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



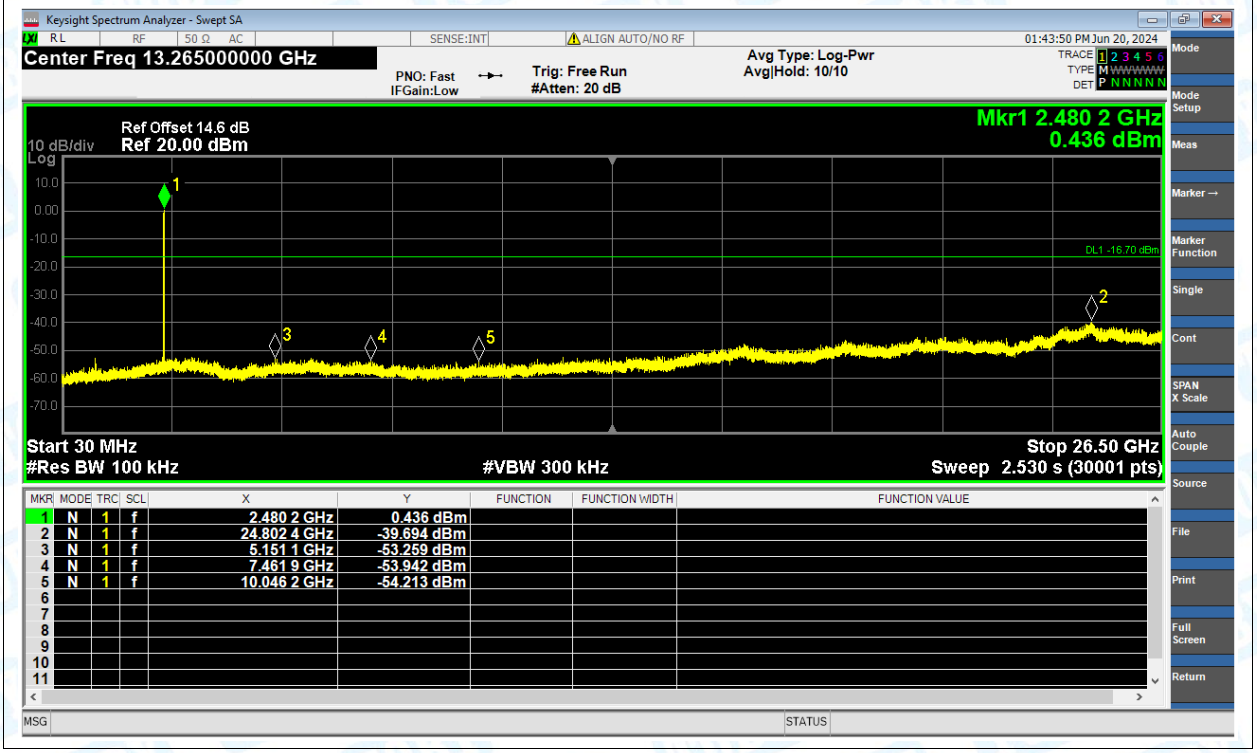
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



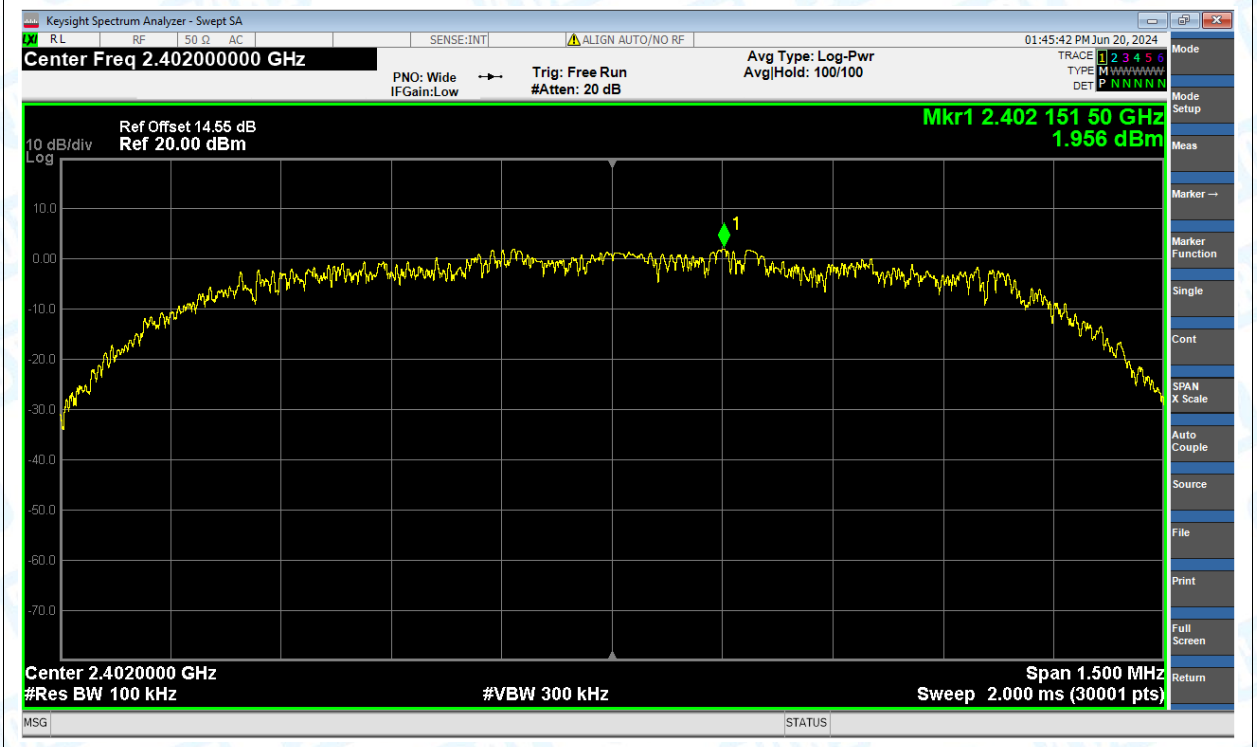
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



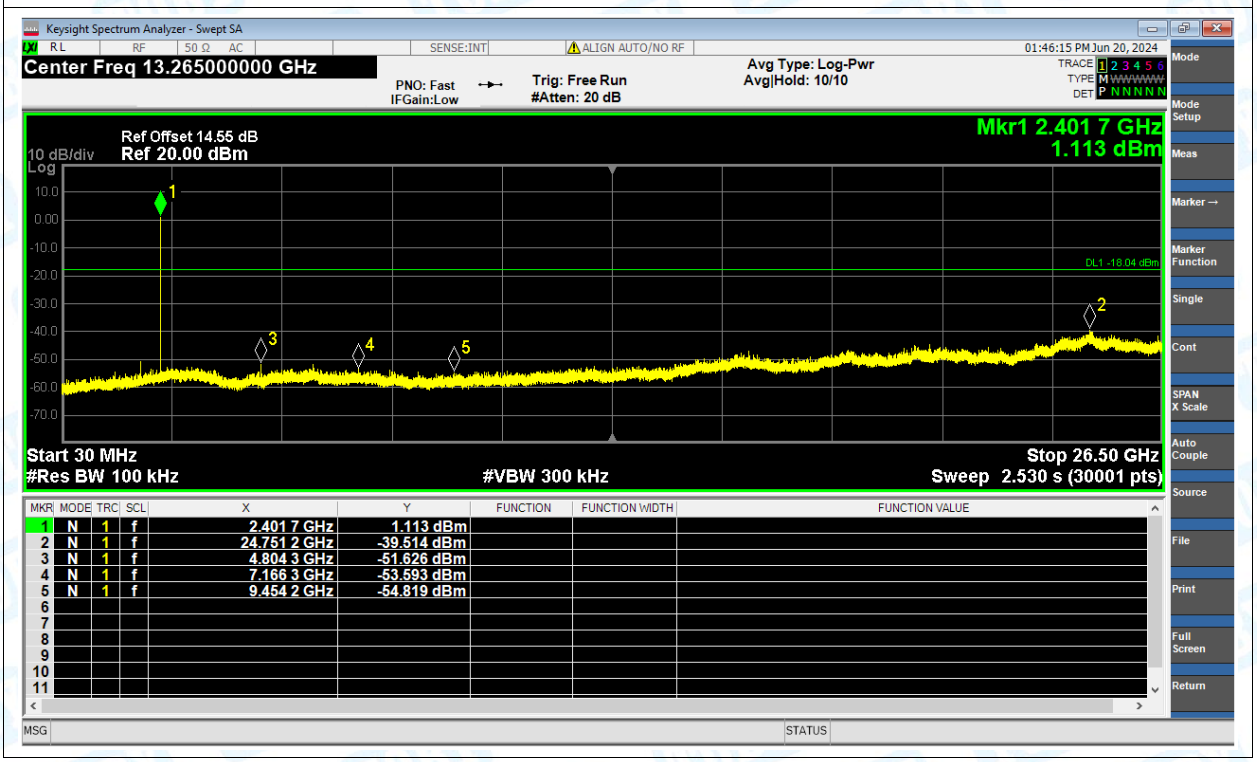
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



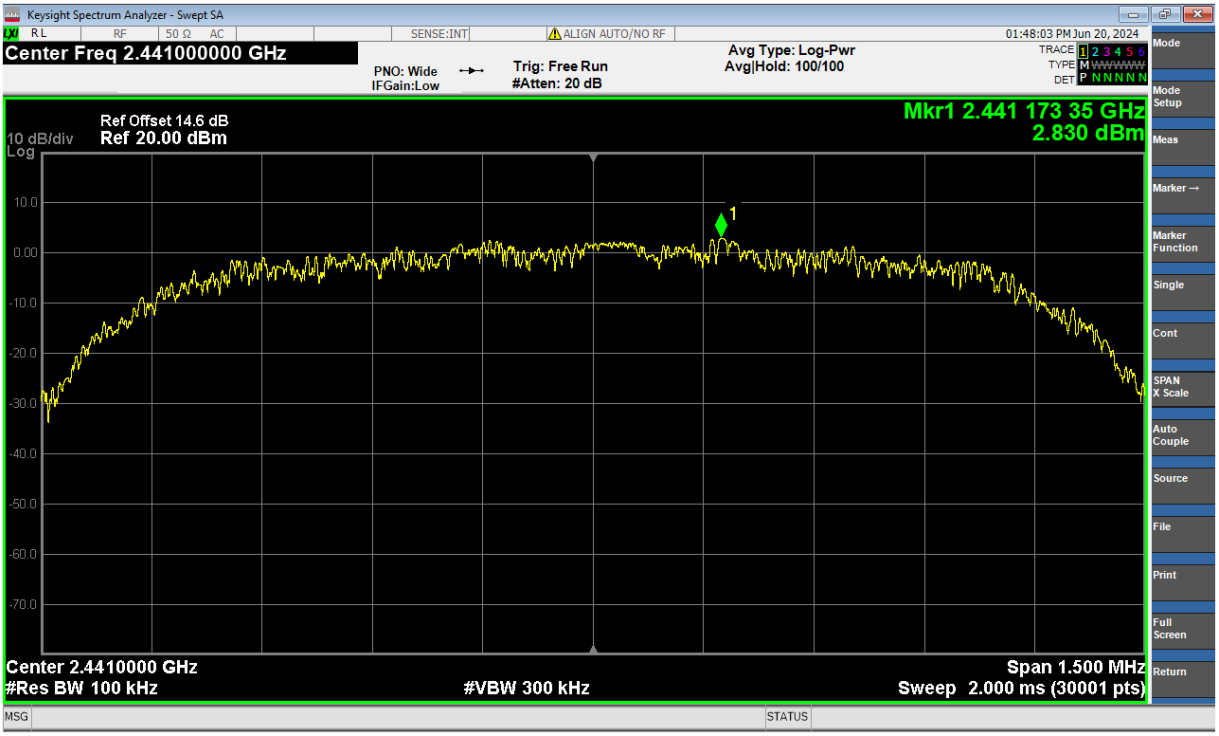
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



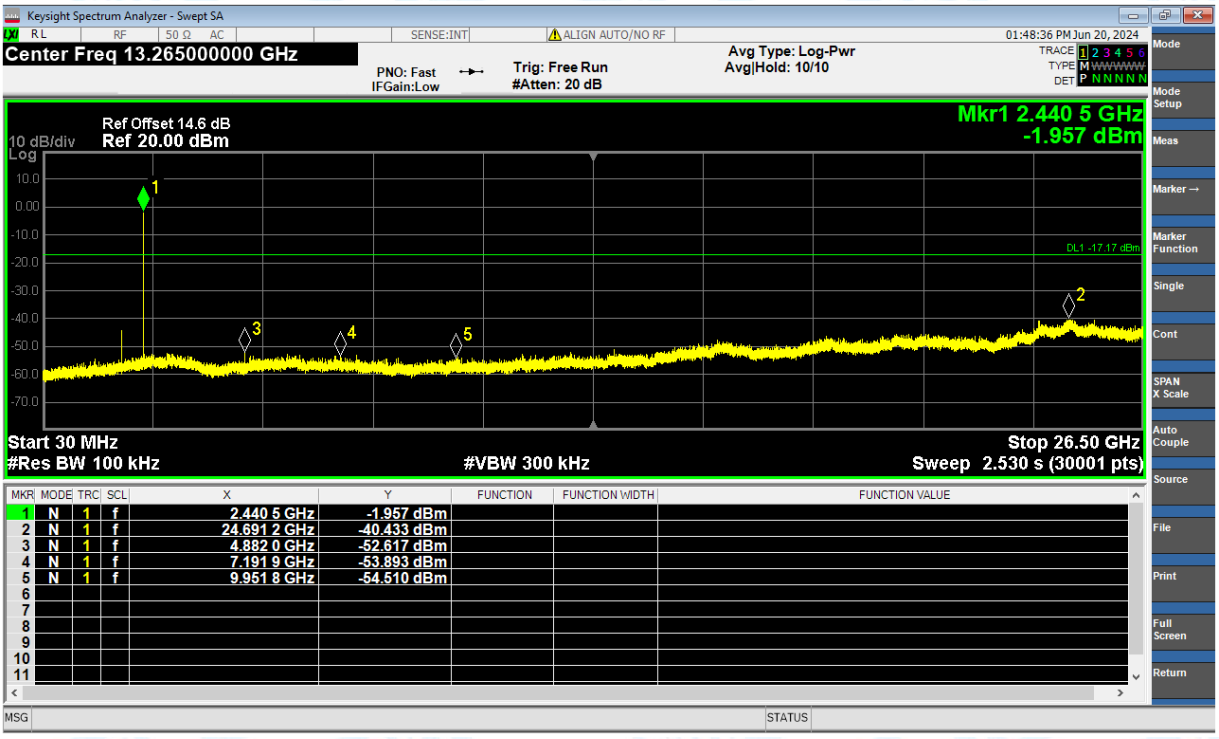
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



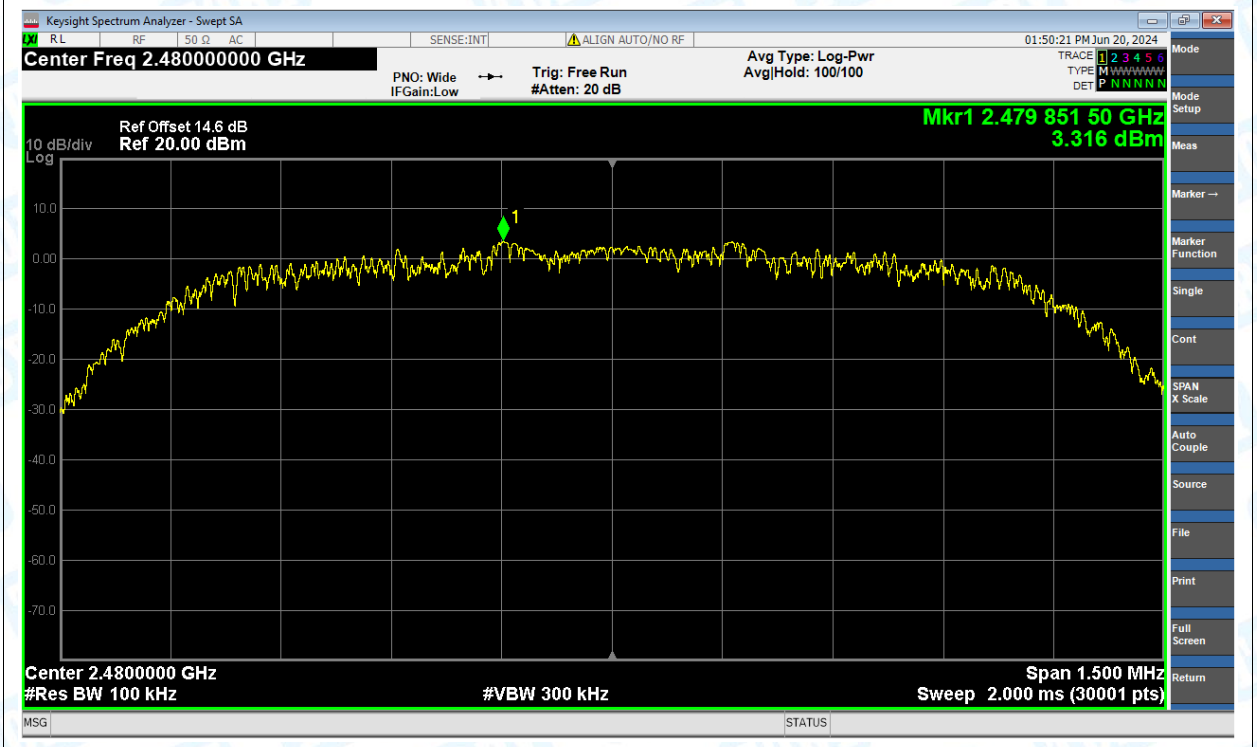
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



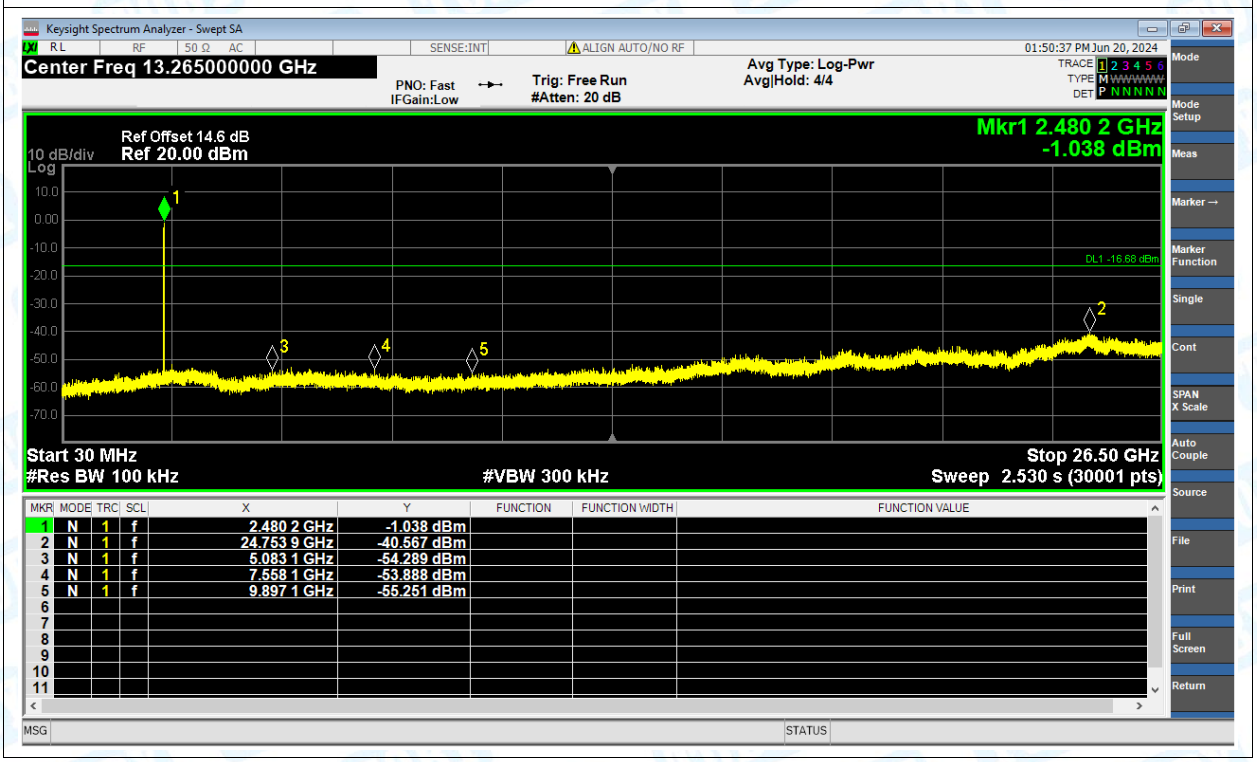
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

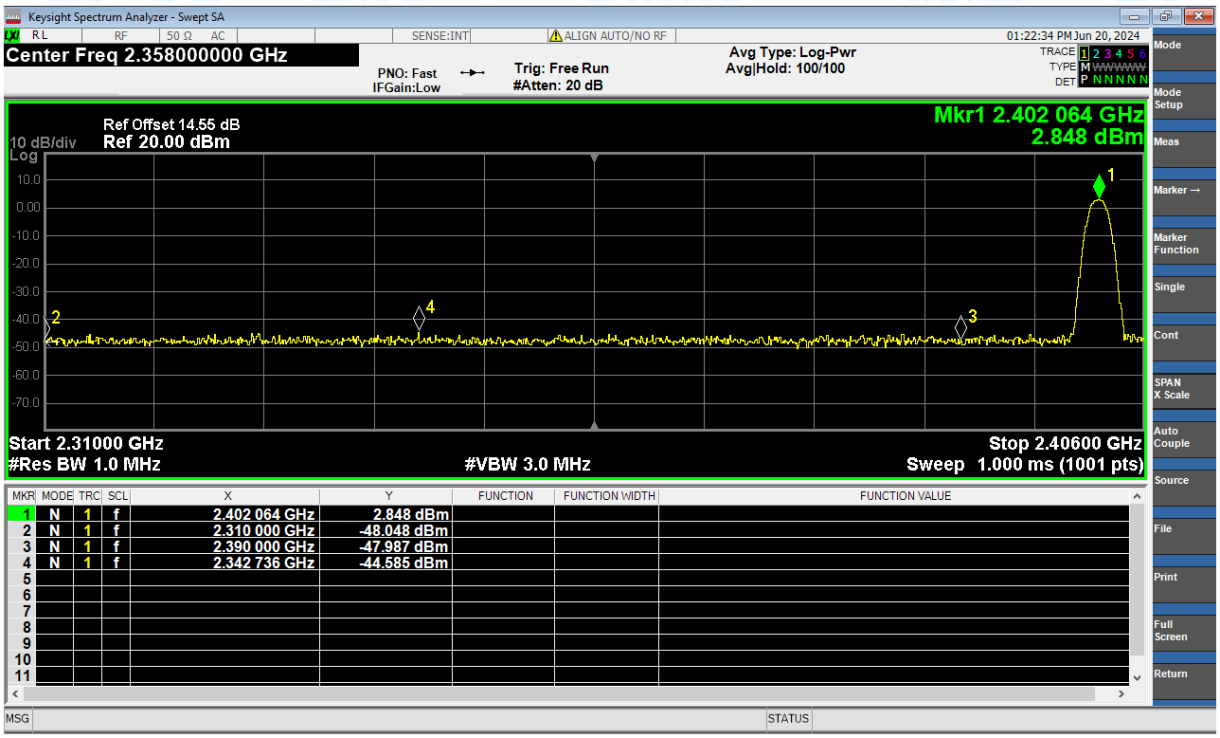


8. Restrict Band

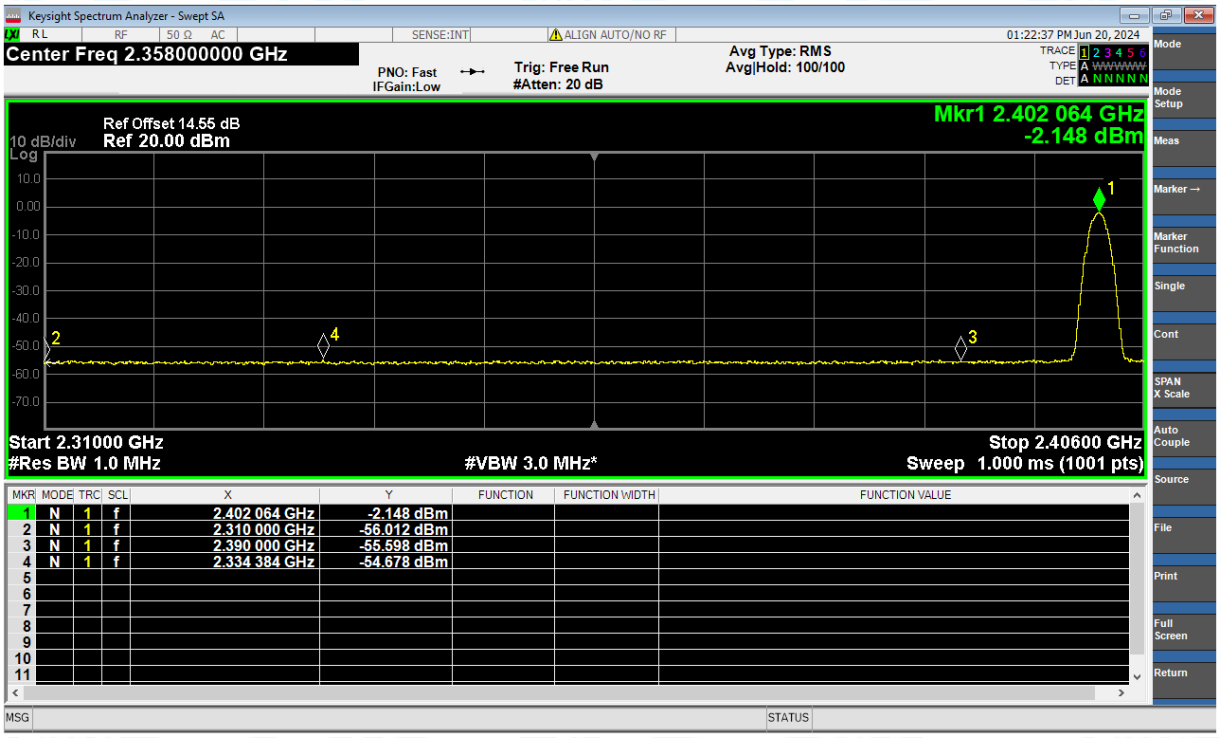
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.05	2	-	49.21	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.01	2	5.29	46.54	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2342.736	-44.59	2	-	52.67	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2334.384	-54.68	2	5.29	47.87	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.99	2	-	49.27	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.6	2	5.29	46.95	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.78	2	-	50.48	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.05	2	5.29	47.5	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.448	-44.7	2	-	52.56	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2486.152	-54.42	2	5.29	48.13	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-46.19	2	-	51.07	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.42	2	5.29	47.13	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.17	2	-	49.09	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.04	2	5.29	46.51	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2337.744	-44.64	2	-	52.62	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2340.432	-54.95	2	5.29	47.6	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.62	2	-	50.64	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.53	2	5.29	47.02	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.98	2	-	51.28	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.28	2	5.17	47.15	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2490.16	-44.47	2	-	52.79	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2493.232	-54.5	2	5.17	47.93	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.59	2	-	49.67	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.96	2	5.17	46.47	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-45.66	2	-	51.6	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-53.82	2	5.17	48.61	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2353.296	-42.78	2	-	54.48	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2341.296	-52.91	2	5.17	49.52	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-45.92	2	-	51.34	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-53.83	2	5.17	48.6	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.17	2	-	50.09	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.93	2	5.17	47.5	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.072	-44.43	2	-	52.83	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2490.856	-54.52	2	5.17	47.91	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.66	2	-	50.6	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.74	2	5.17	46.69	Average	54	Pass

Test Graphs

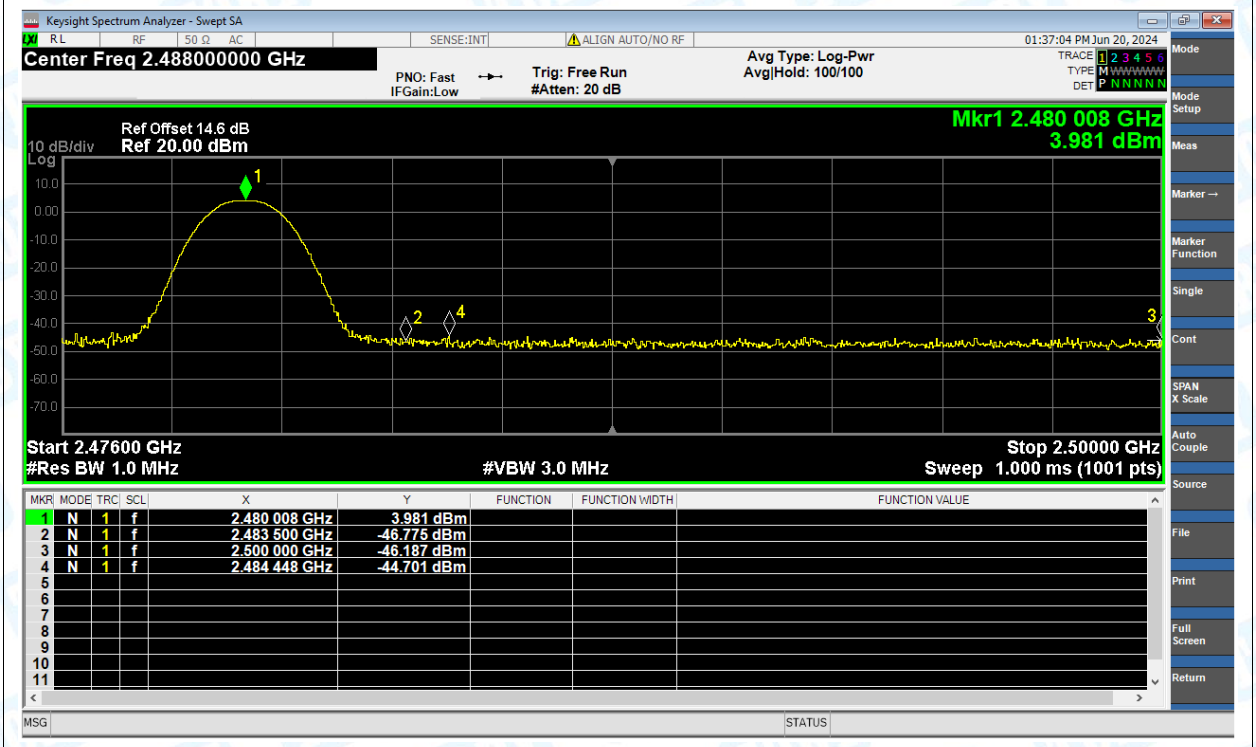
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



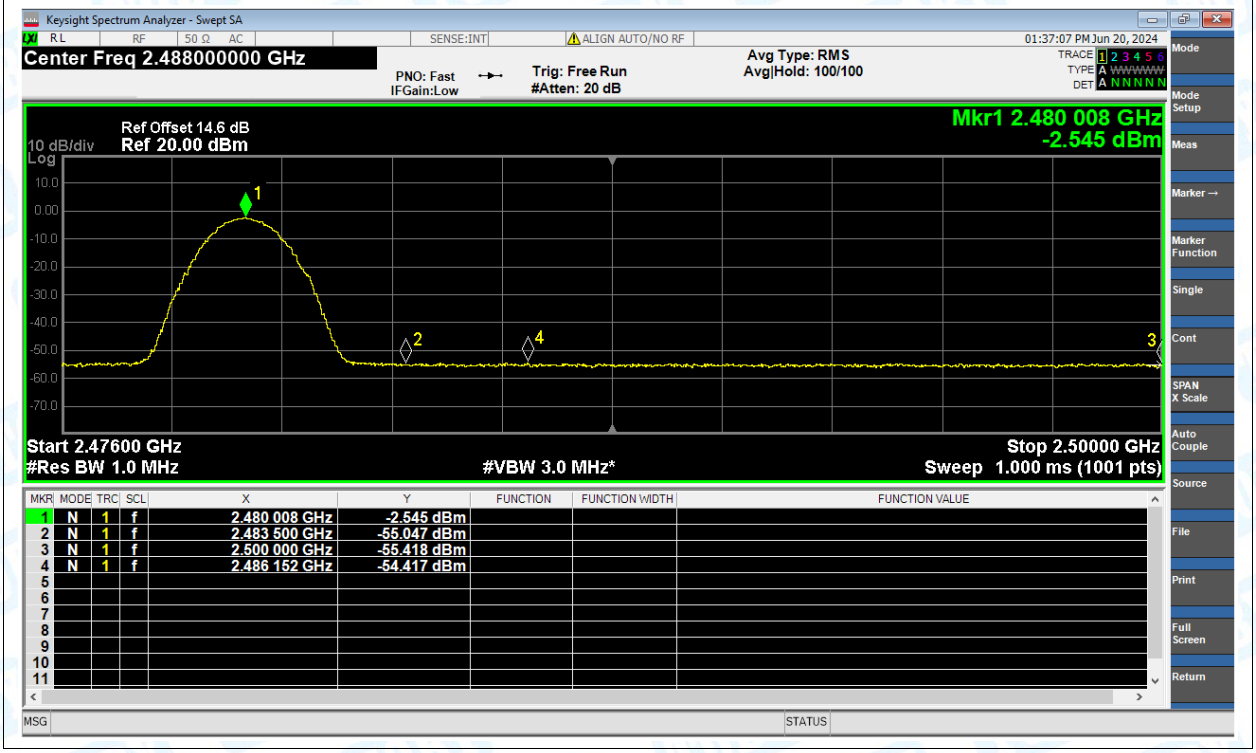
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



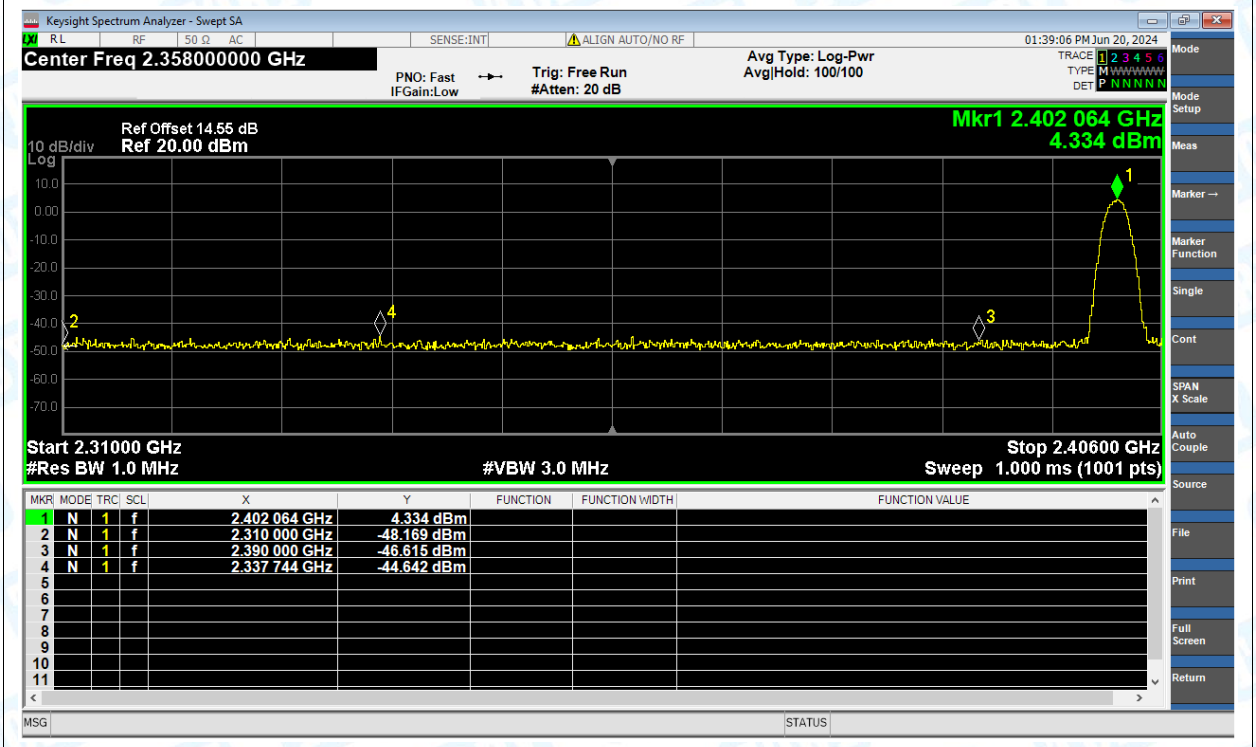
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



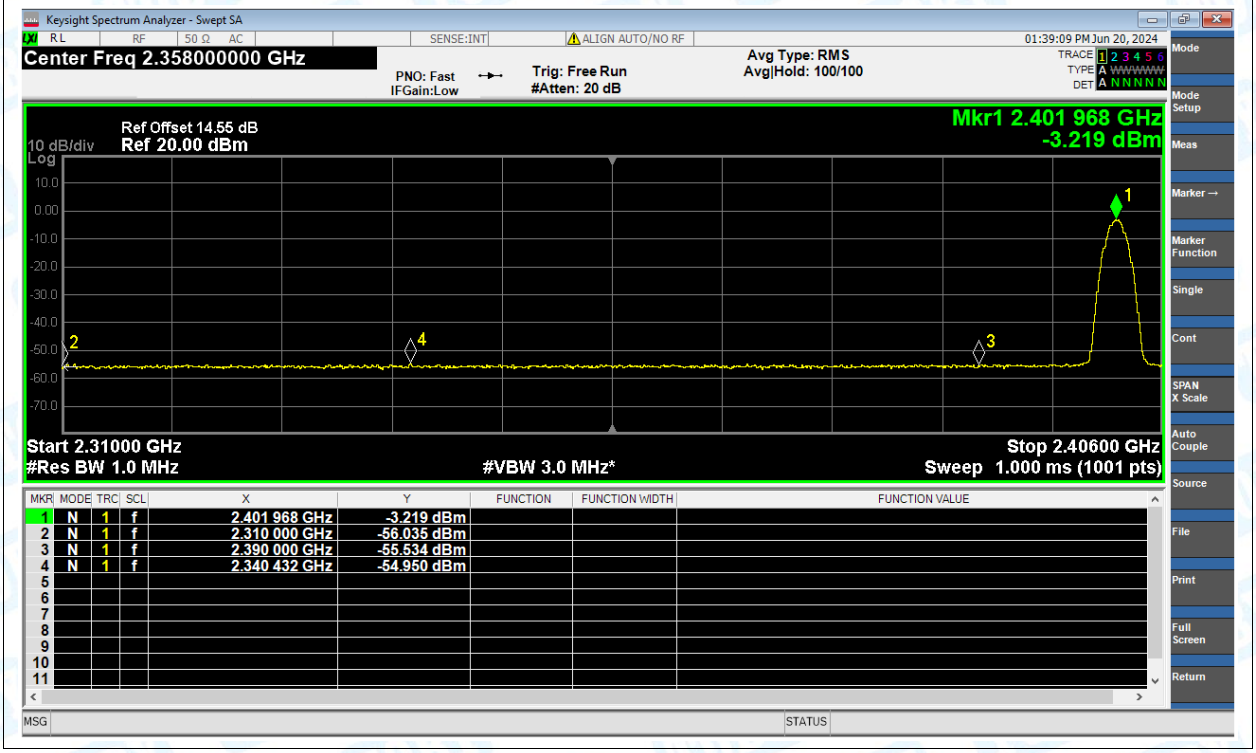
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



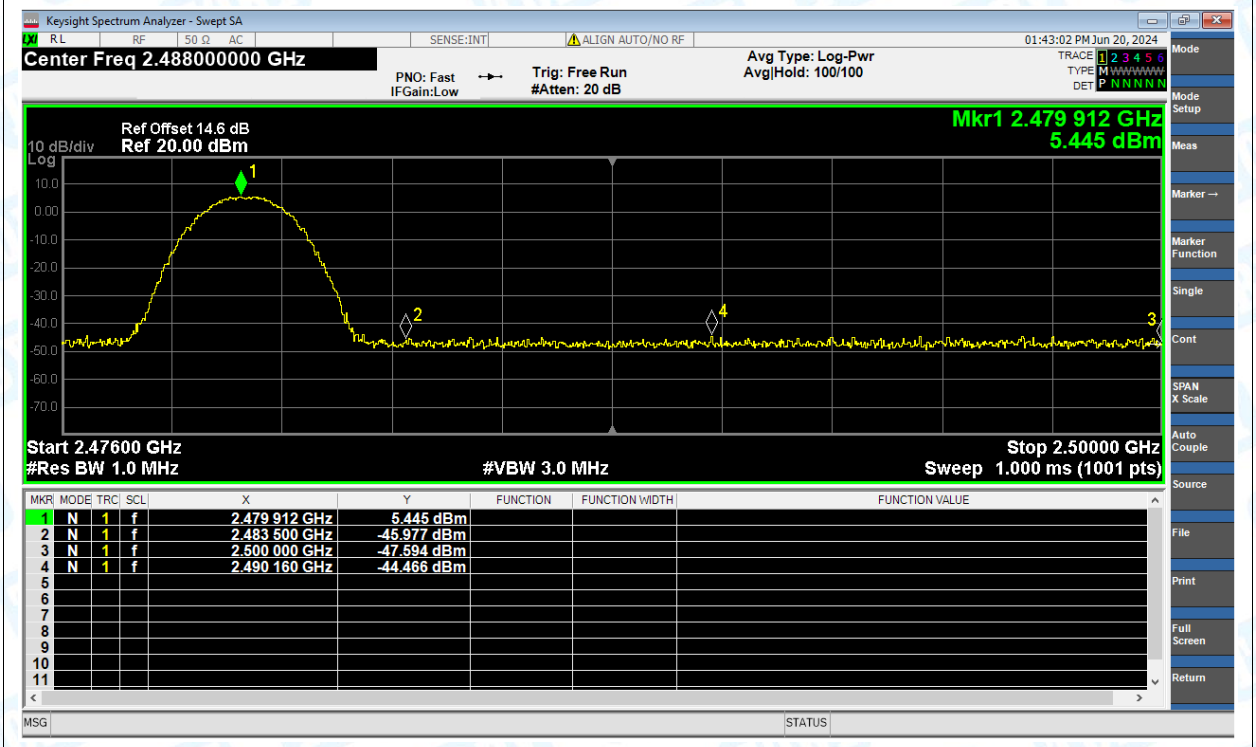
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



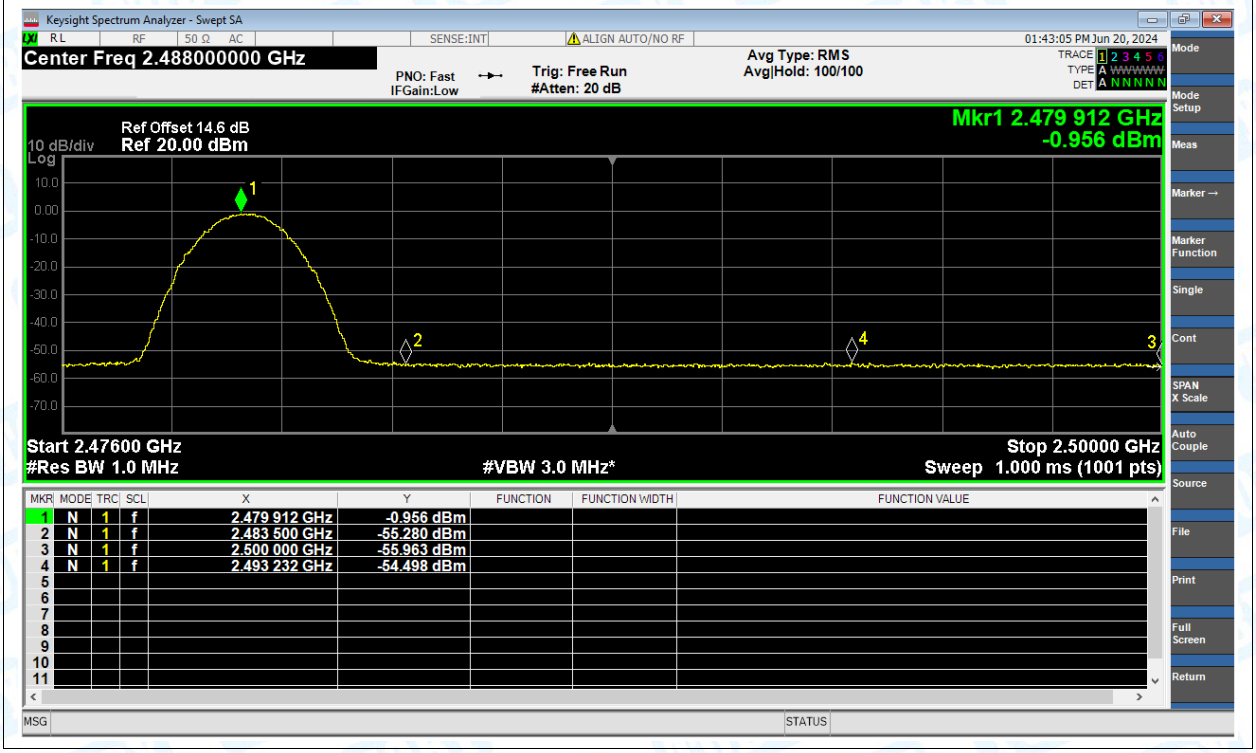
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



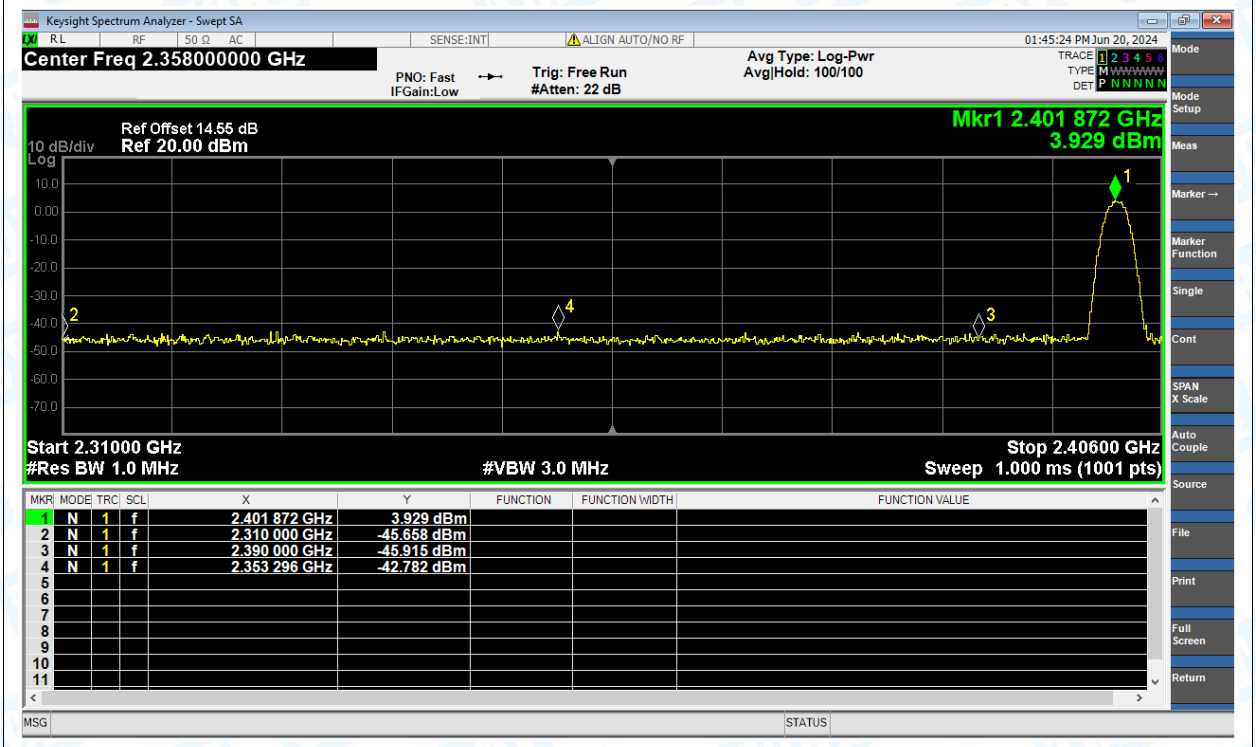
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



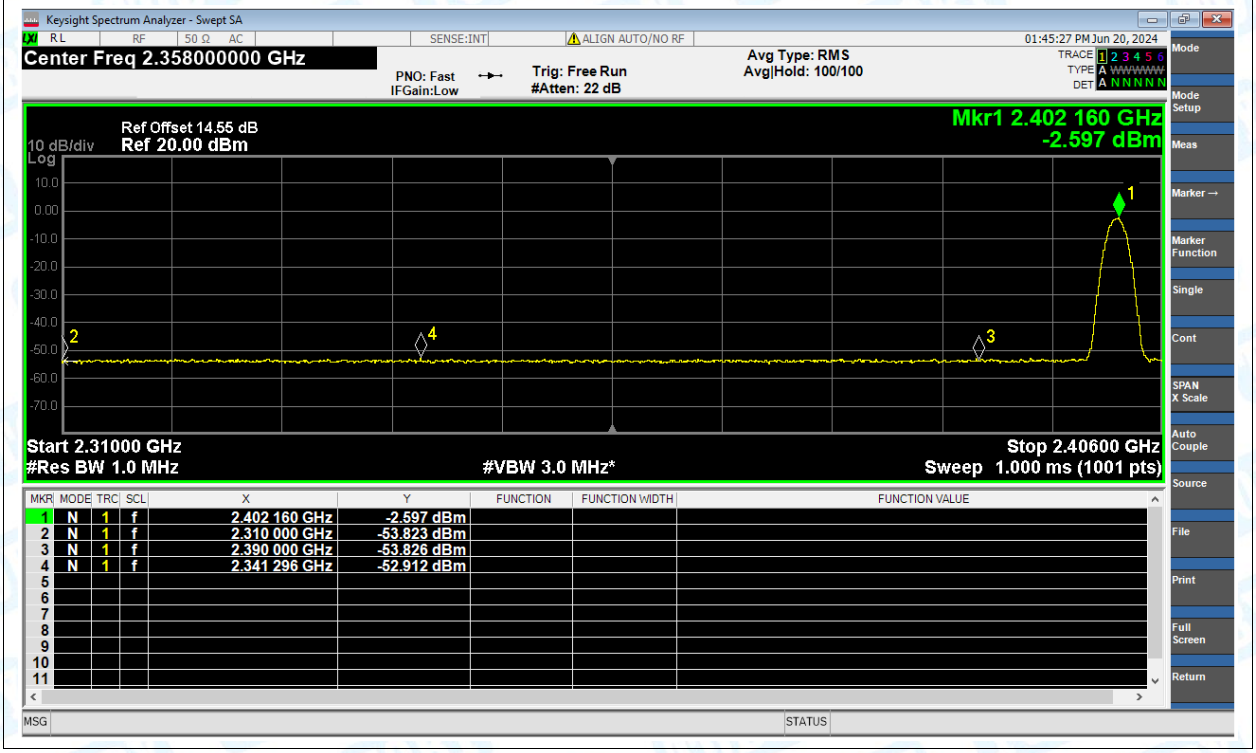
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



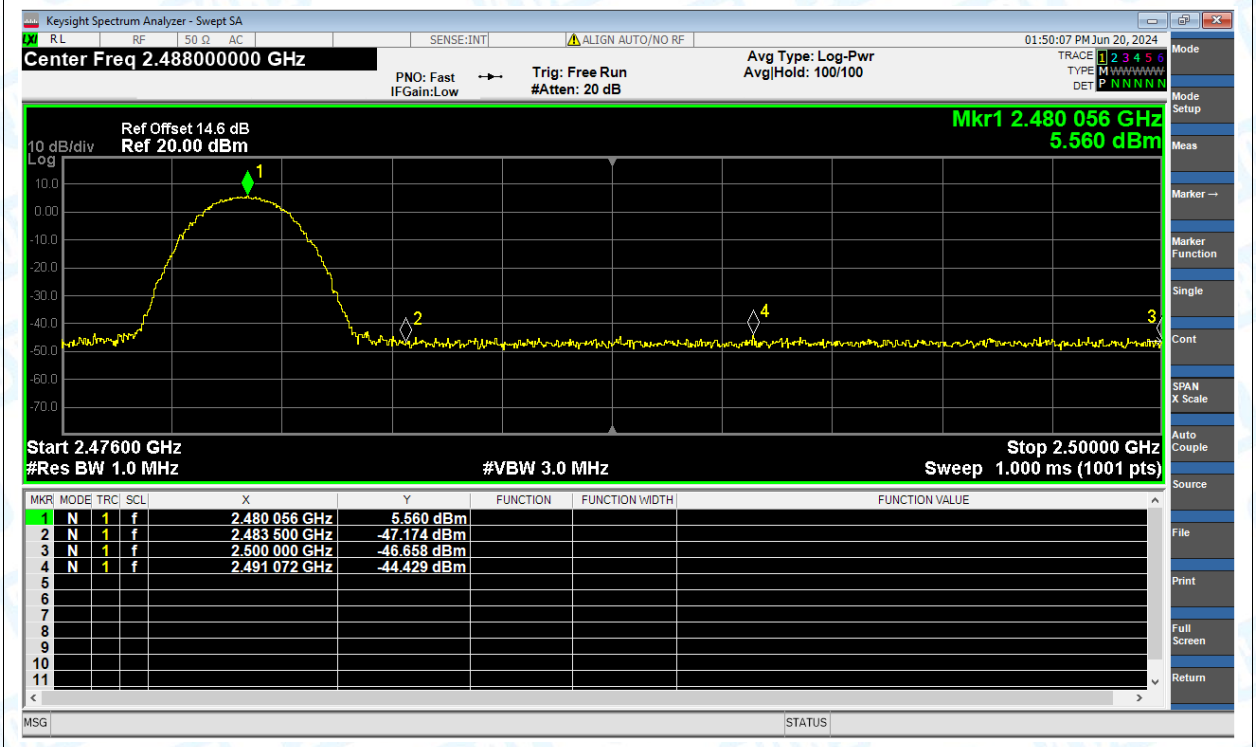
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



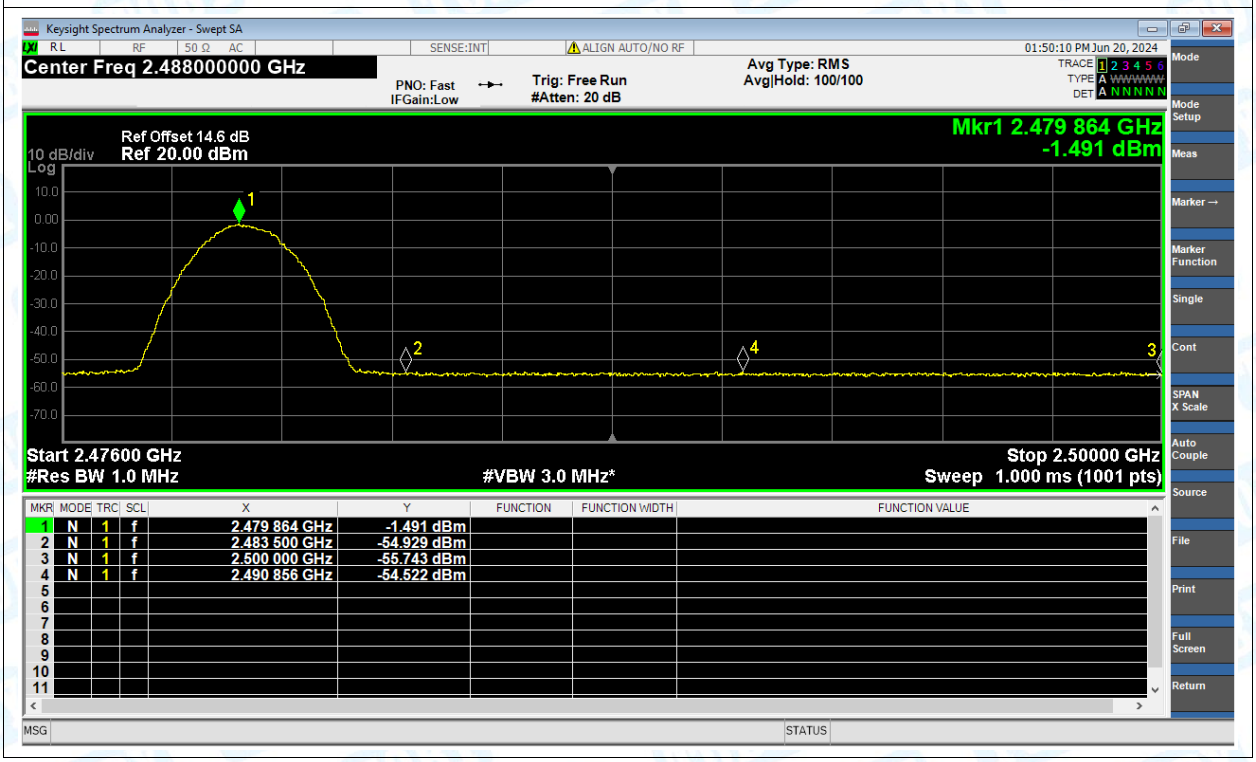
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

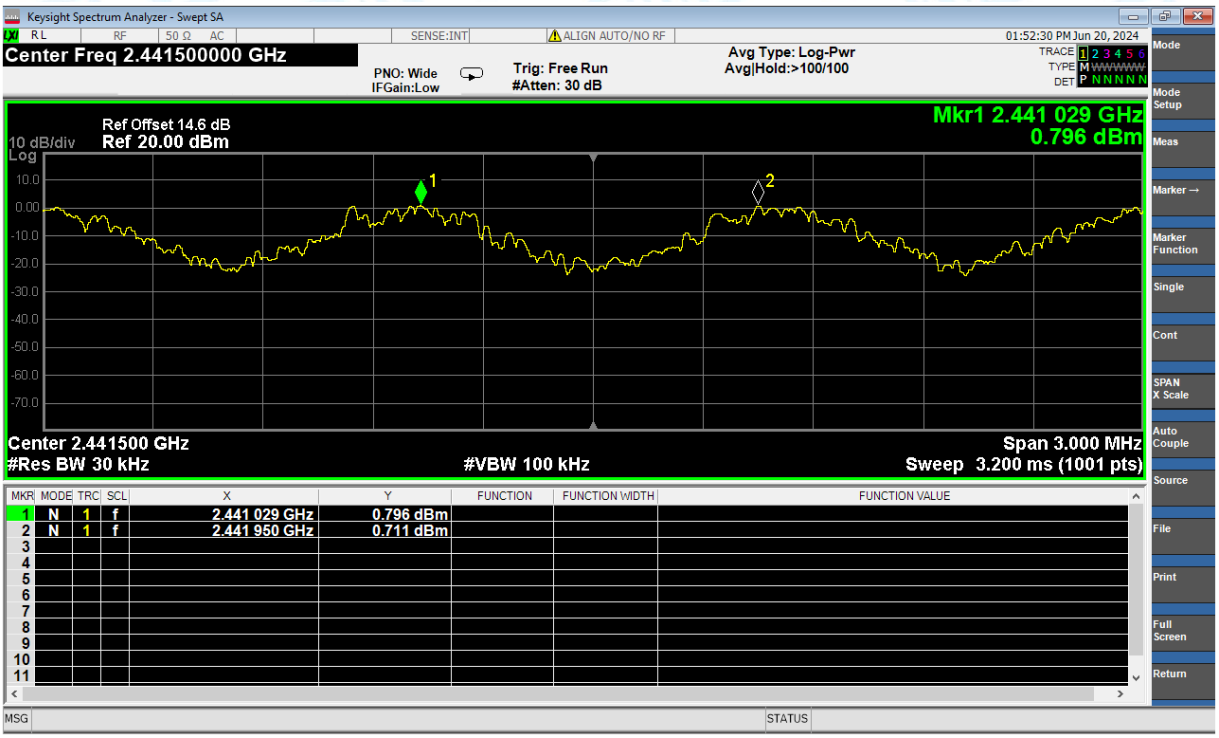


9. Carrier Frequencies Separation

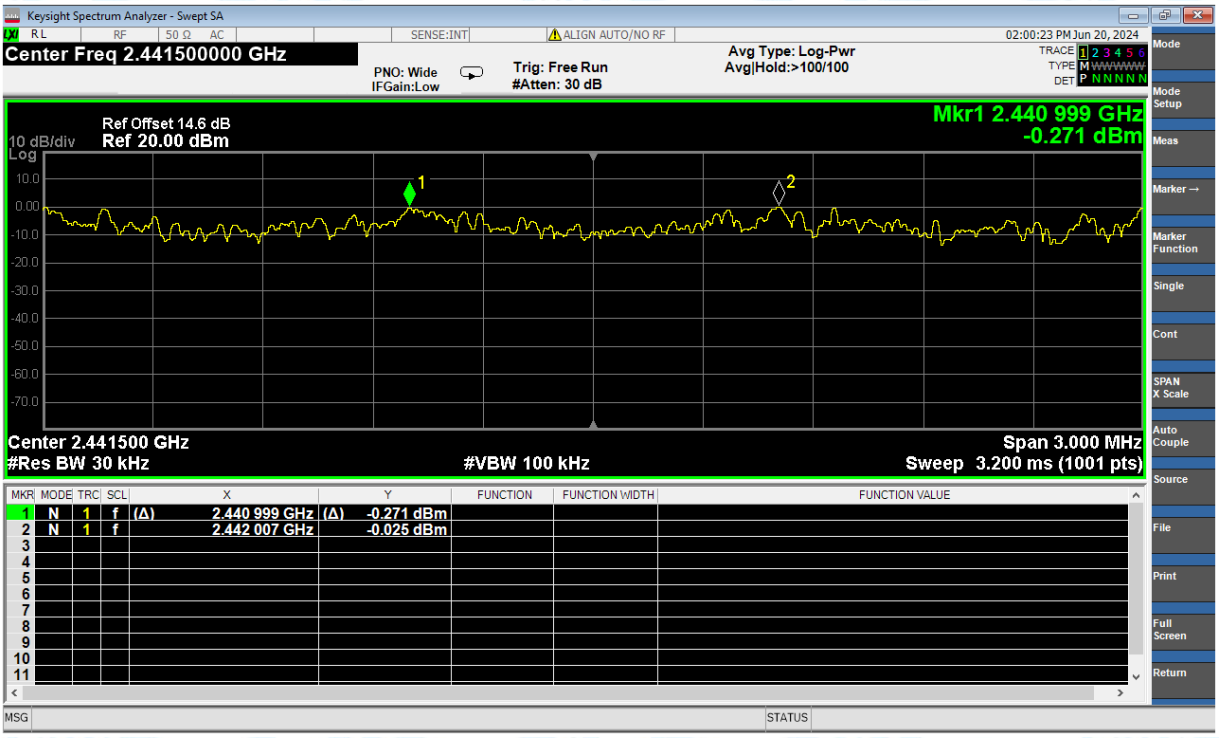
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.029	2441.95	0.921	0.6	Pass
NVNT	2-DH1	Ant1	2440.999	2442.007	1.008	0.853	Pass
NVNT	3-DH1	Ant1	2441.005	2442.001	0.996	0.86	Pass

Test Graphs

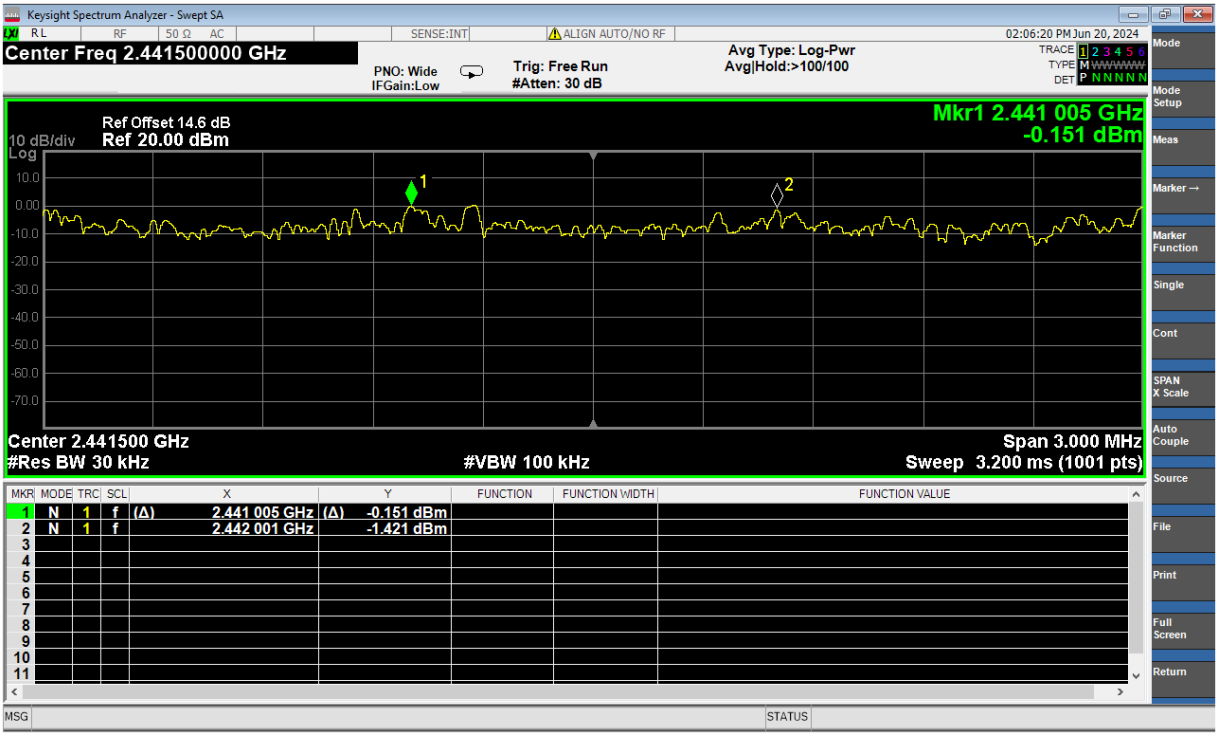
CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1

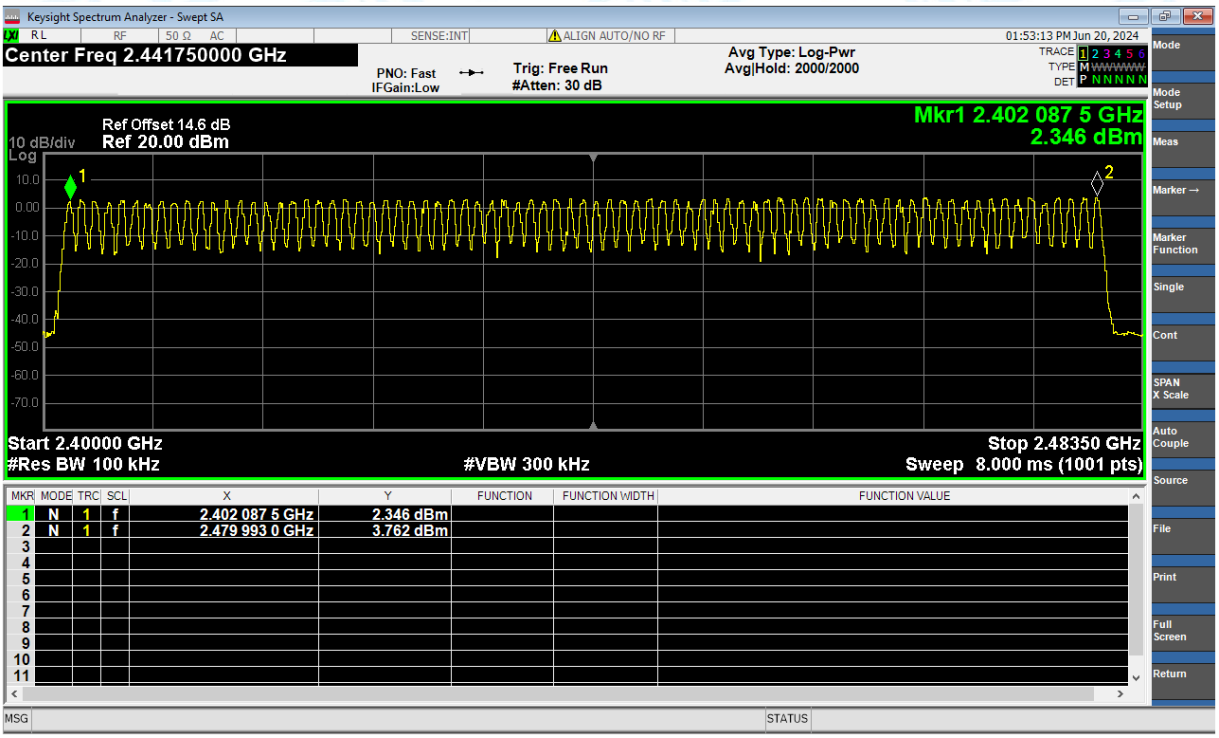


10. Number of Hopping Channel

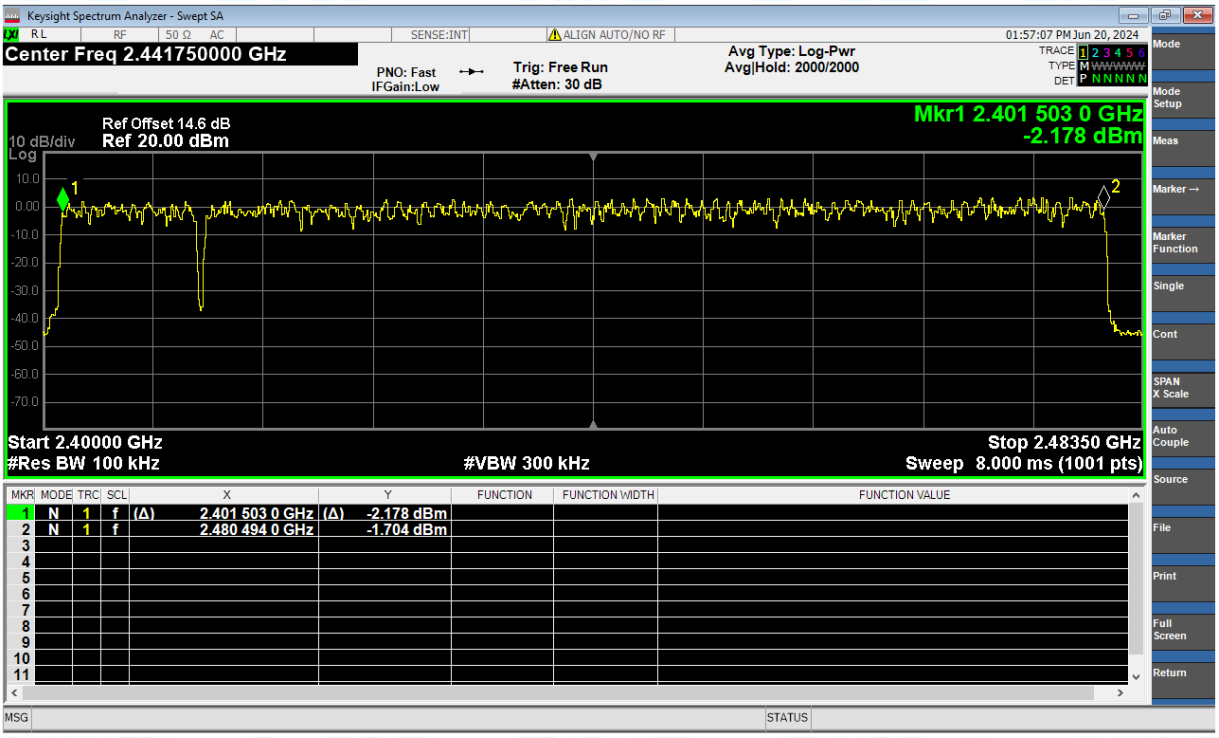
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

Test Graphs

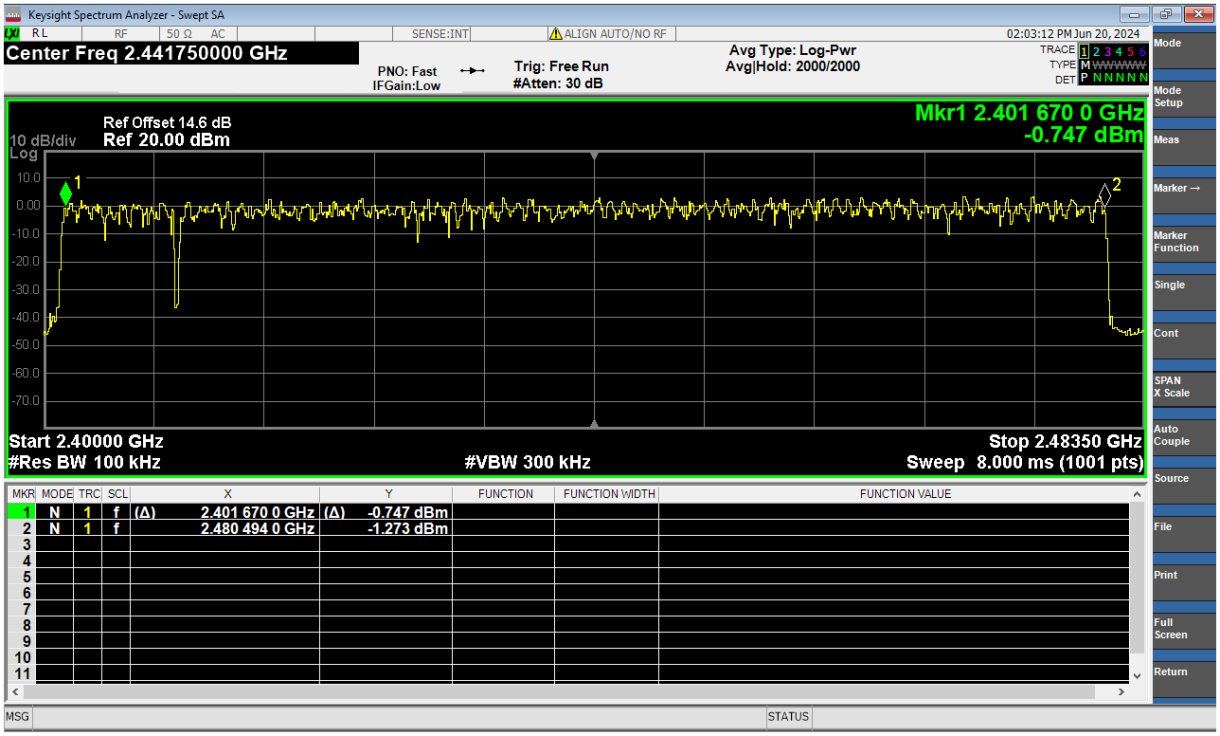
Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1

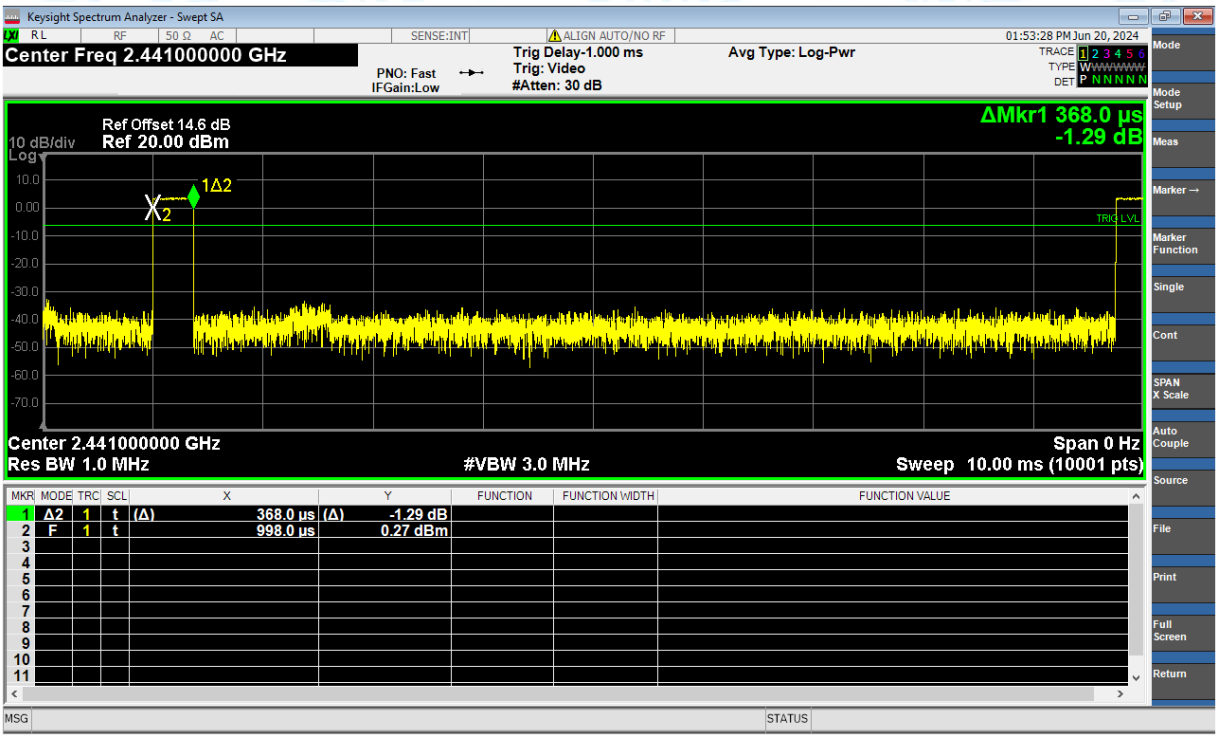


11. Dwell Time

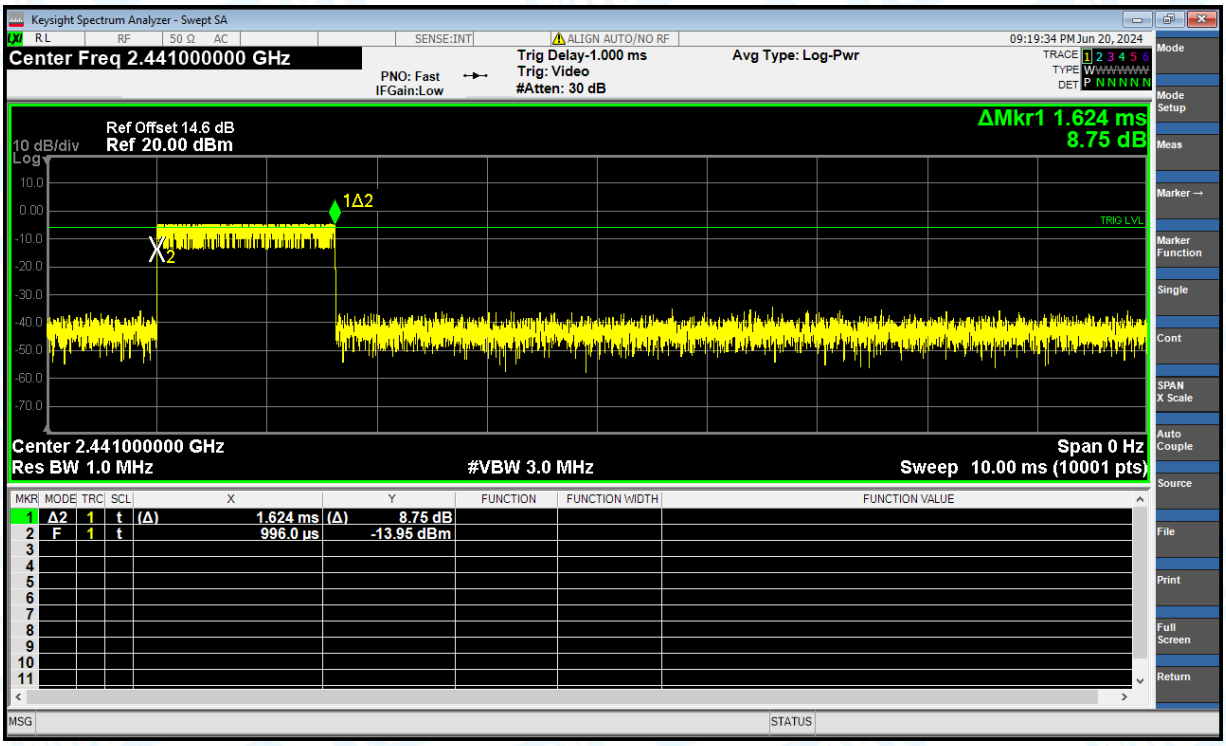
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.368	117.76	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.624	259.84	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.871	306.24	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.378	120.96	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.629	260.64	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.873	306.453	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.373	119.36	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.628	260.48	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.879	307.093	31600	400	Pass

Test Graphs

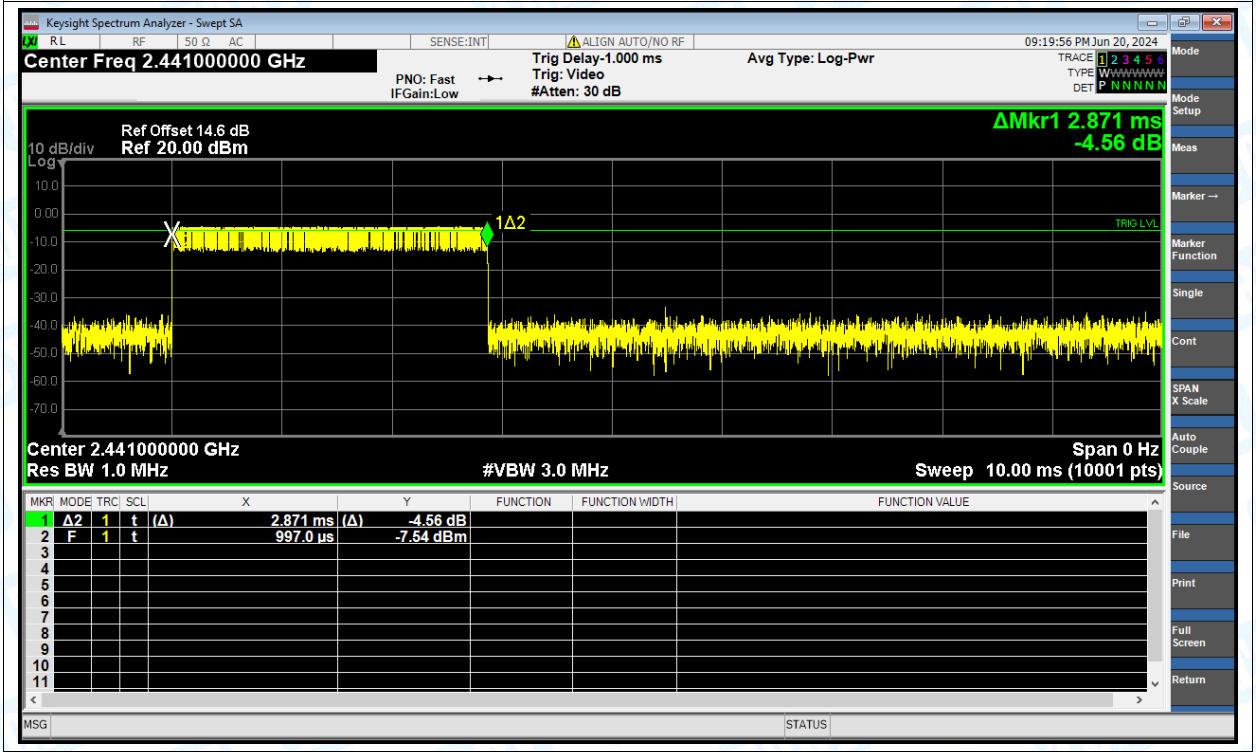
Dwell NVNT 1-DH1 2441MHz Ant1



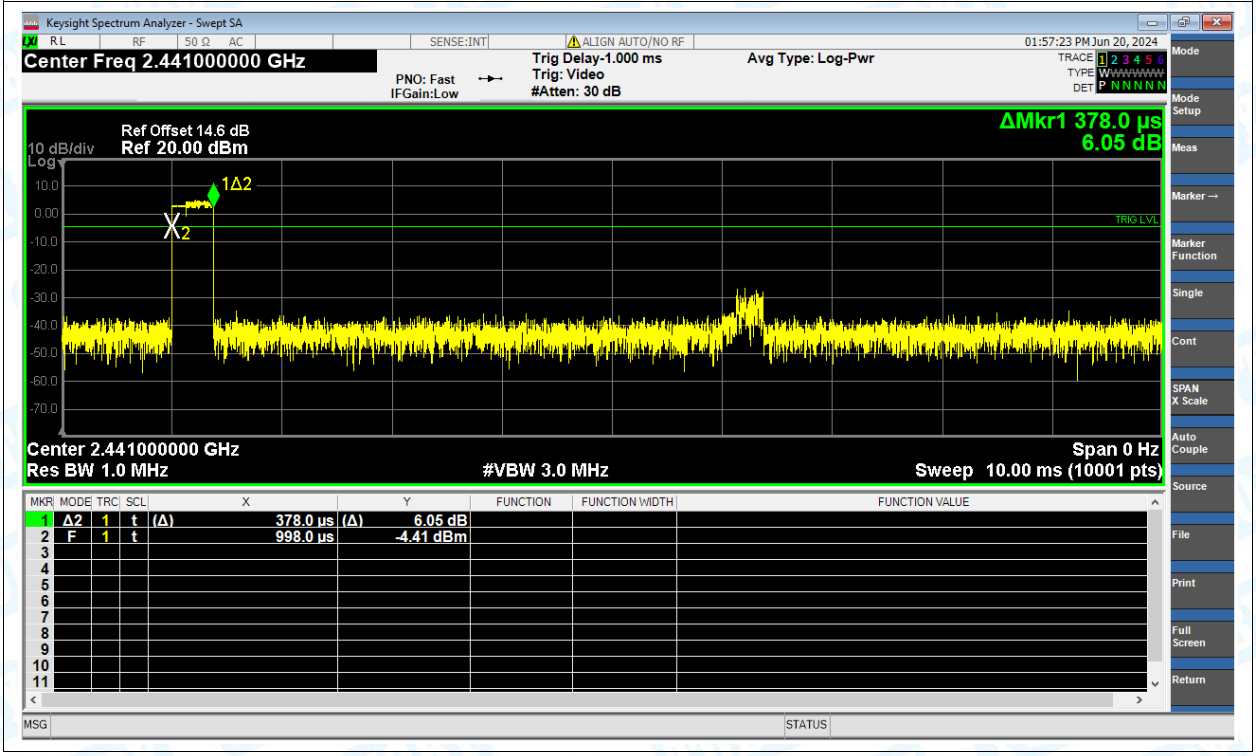
Dwell NVNT 1-DH3 2441MHz Ant1



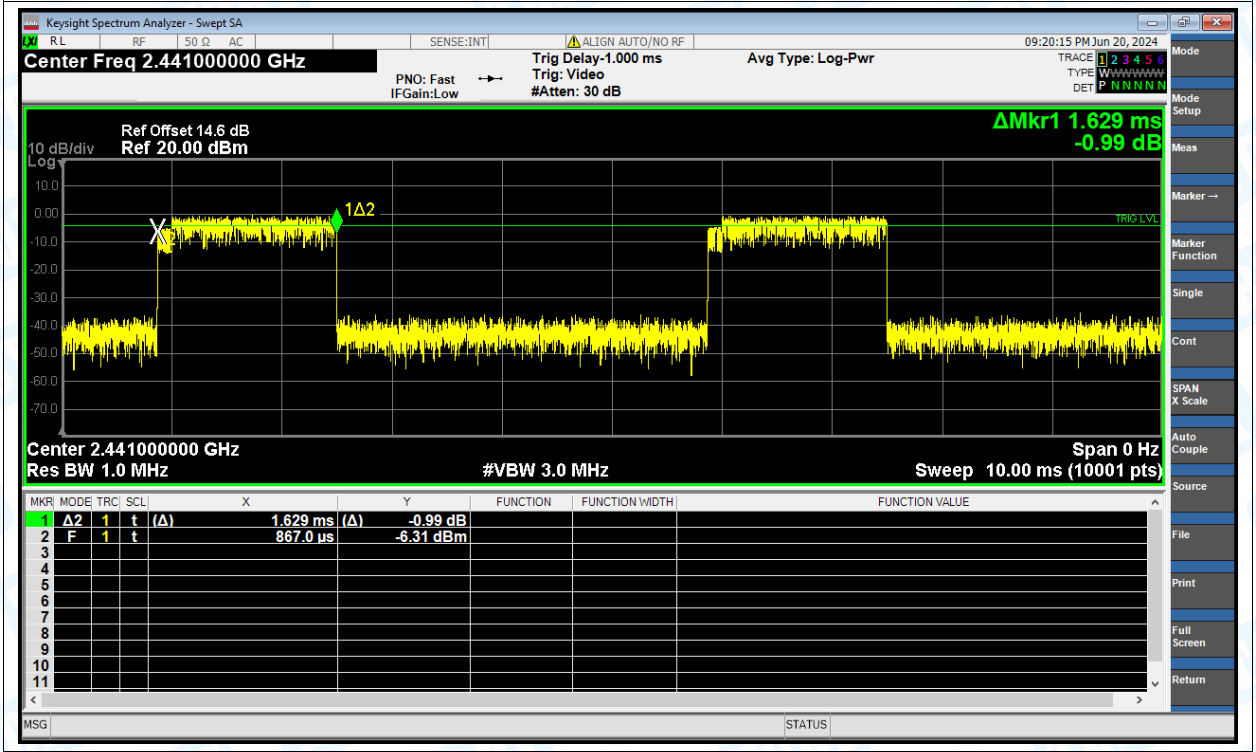
Dwell NVNT 1-DH5 2441MHz Ant1



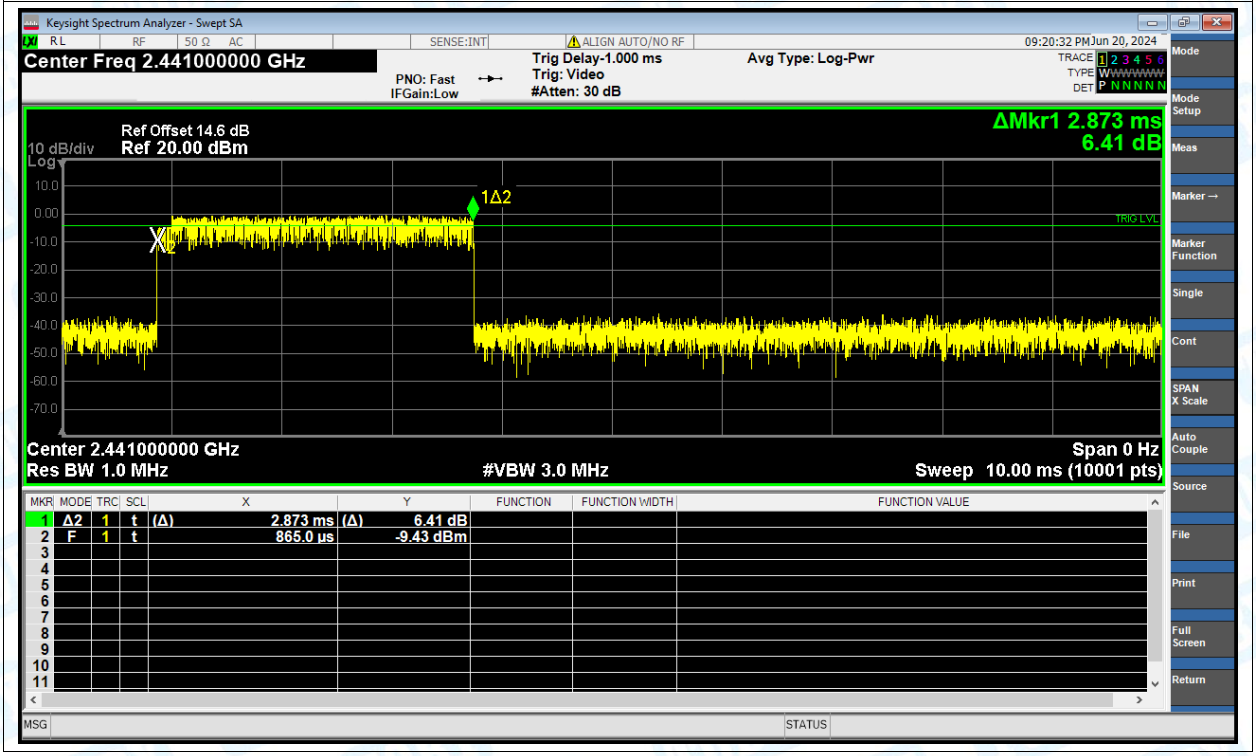
Dwell NVNT 2-DH1 2441MHz Ant1



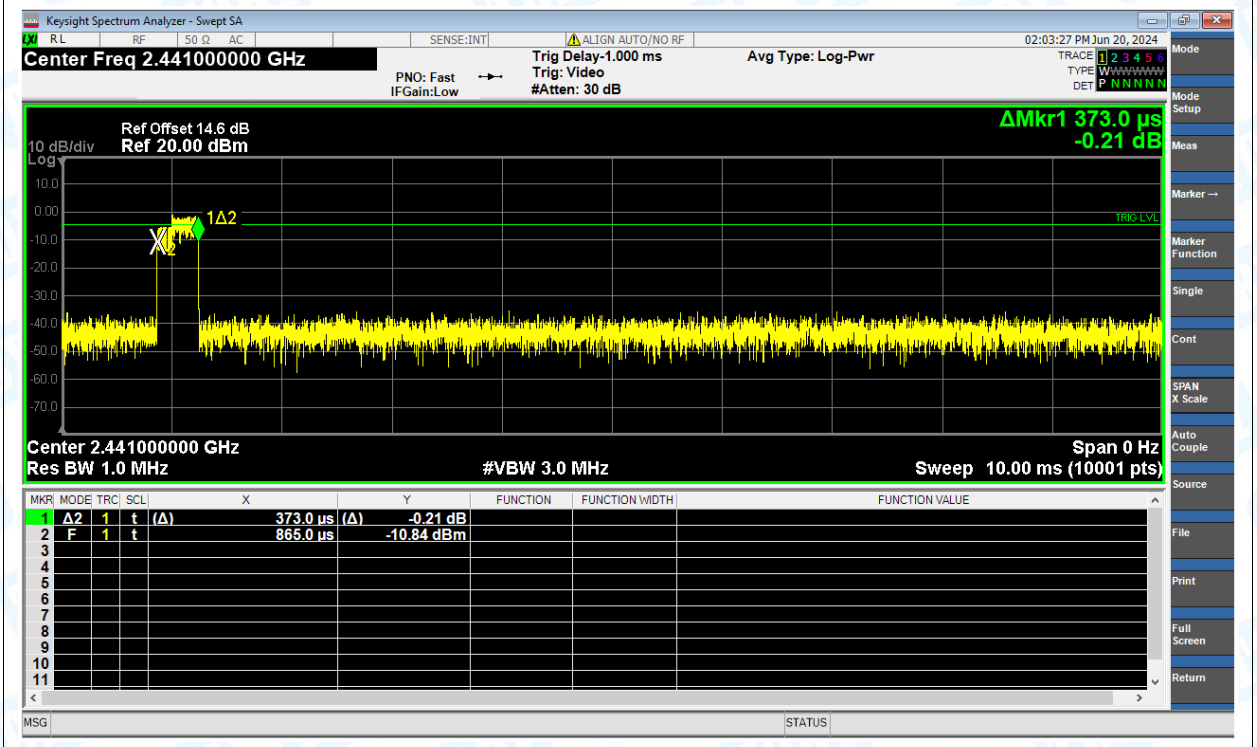
Dwell NVNT 2-DH3 2441MHz Ant1



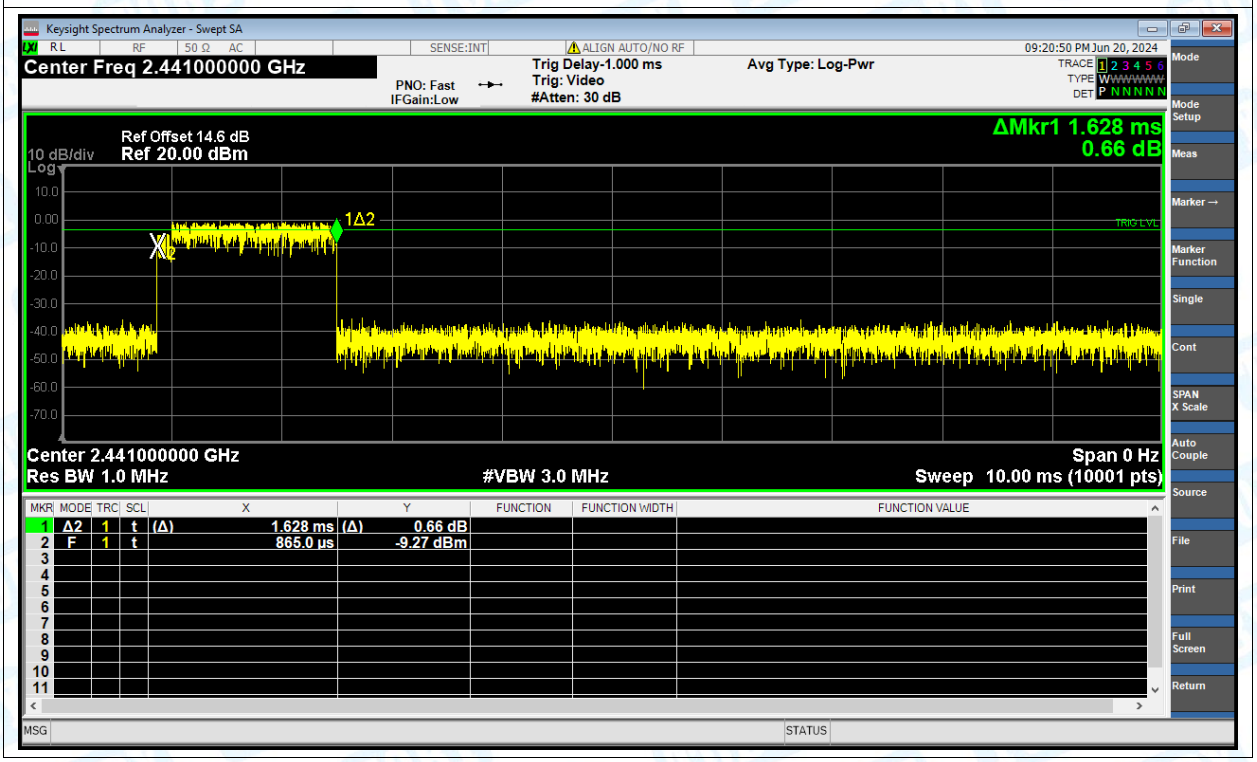
Dwell NVNT 2-DH5 2441MHz Ant1



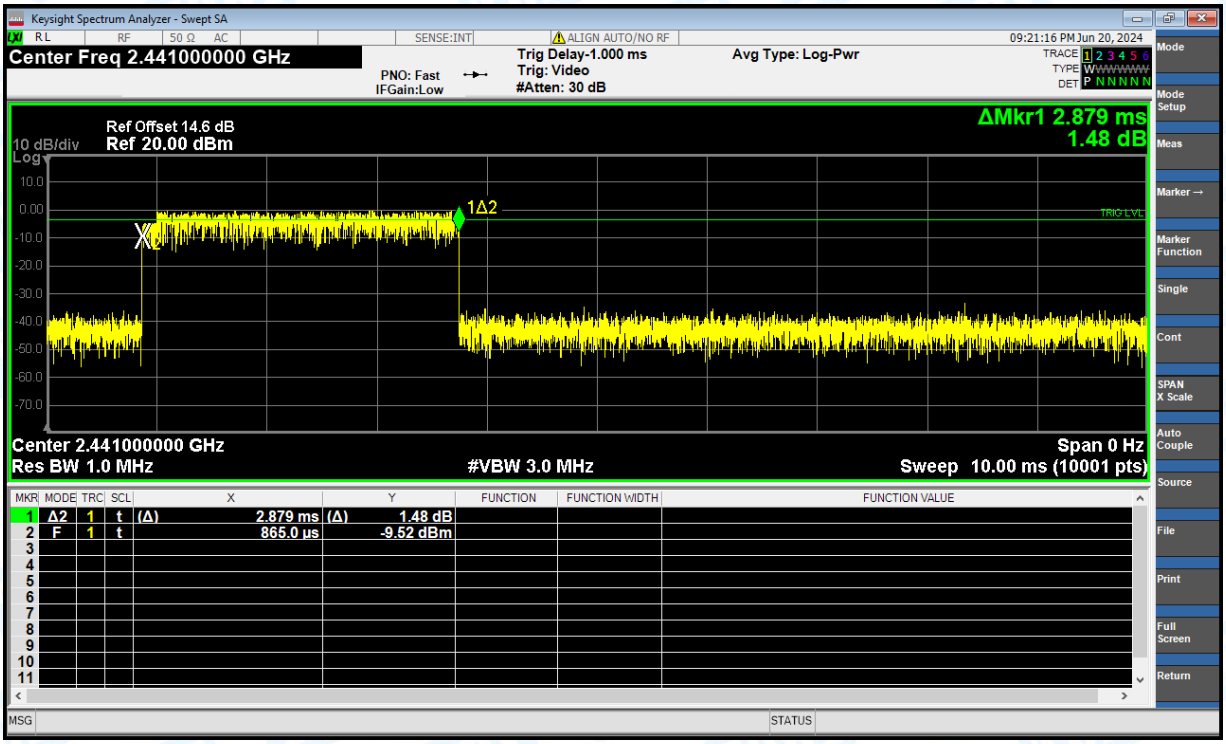
Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1



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