

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Ceramics X true wireless stereo earbuds
Test Model:	CERAMICS X
Sample ID:	HC-C-202402-0111-01-01
Environmental Conditions	
Temperature:	23.4℃
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202402-0111-71 The report only show the worst case data.	

Contents

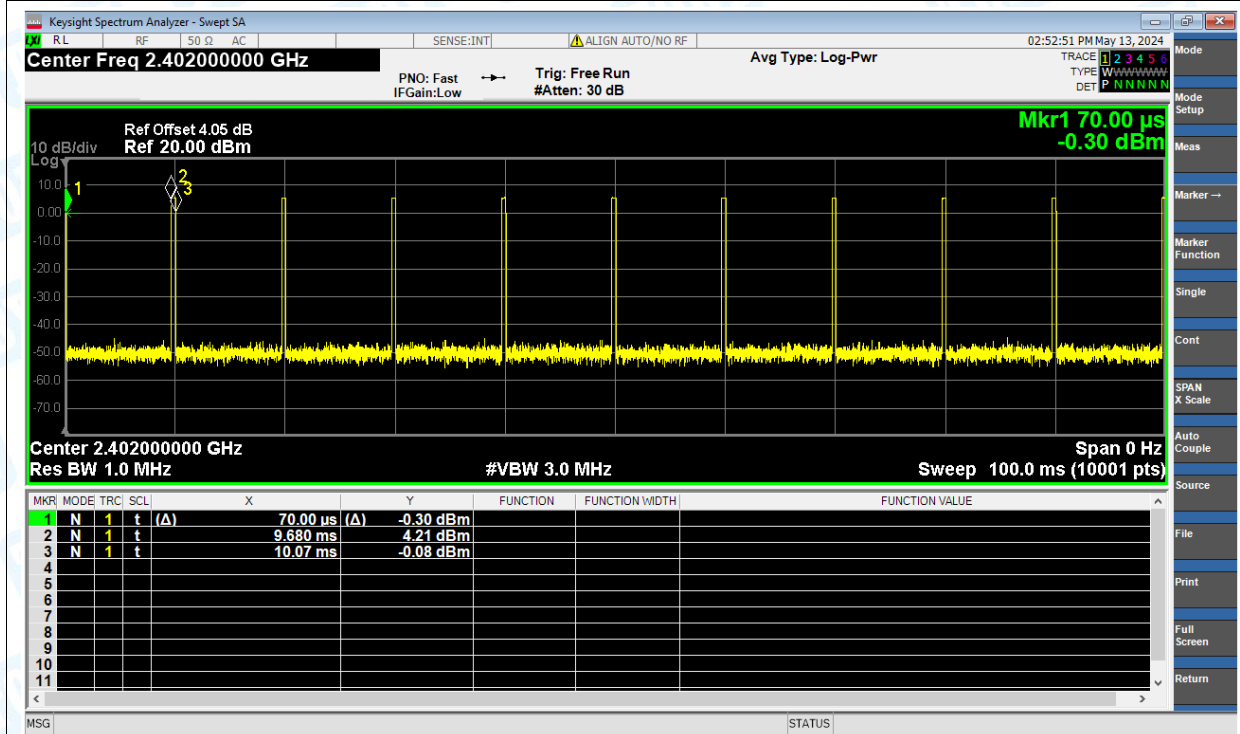
1. Duty Cycle.....	3
2. Maximum Conducted Output Power	9
3. -20dB Bandwidth	18
4. Occupied Channel Bandwidth	24
5. Band Edge	30
6. Band Edge(Hopping).....	37
7. Conducted RF Spurious Emission	44
8. Restrict Band	54
9. Carrier Frequencies Separation.....	61
10. Number of Hopping Channel	64
11. Dwell Time.....	67

1. Duty Cycle

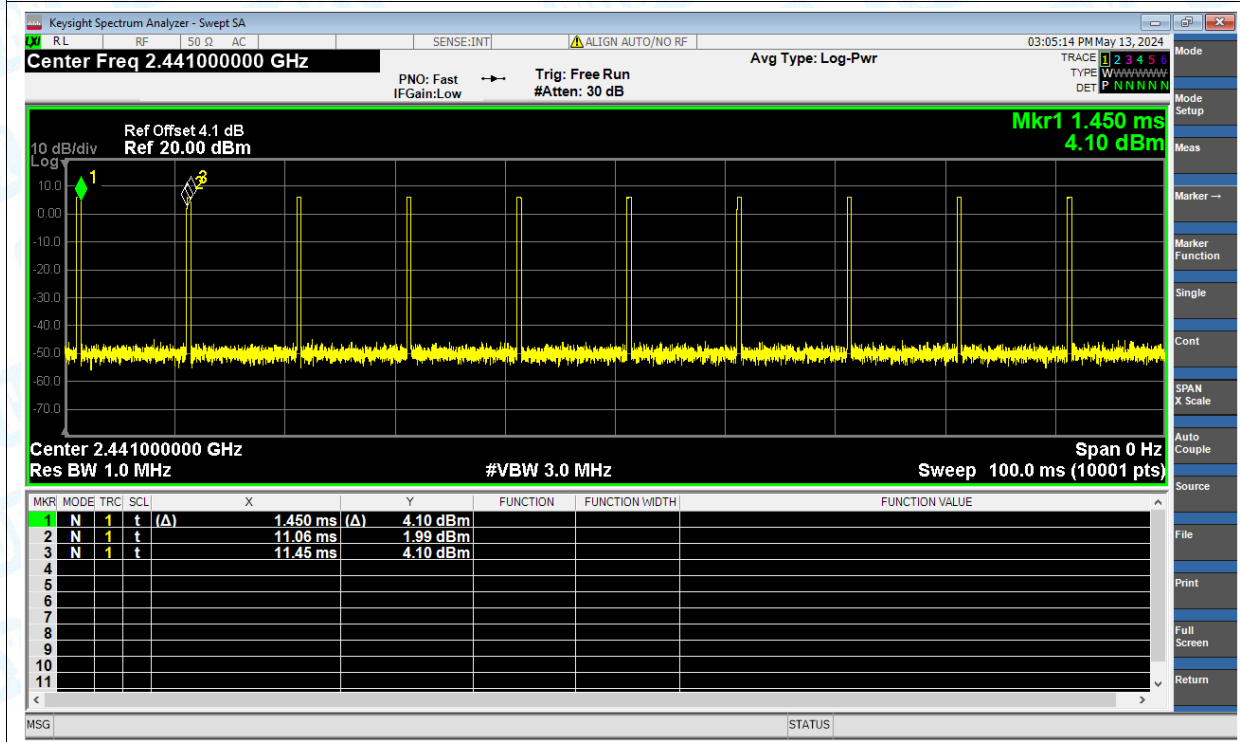
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	3.9	5.17	2.63
NVNT	1-DH1	2441	Ant1	3.9	14.09	2.56
NVNT	1-DH1	2480	Ant1	3.8	14.2	2.63
NVNT	2-DH1	2402	Ant1	3.9	14.09	2.56
NVNT	2-DH1	2441	Ant1	3.9	14.09	2.56
NVNT	2-DH1	2480	Ant1	3.9	14.09	2.56
NVNT	3-DH1	2402	Ant1	4	13.98	2.5
NVNT	3-DH1	2441	Ant1	3.9	14.09	2.56
NVNT	3-DH1	2480	Ant1	3.9	14.09	2.56

Test Graphs

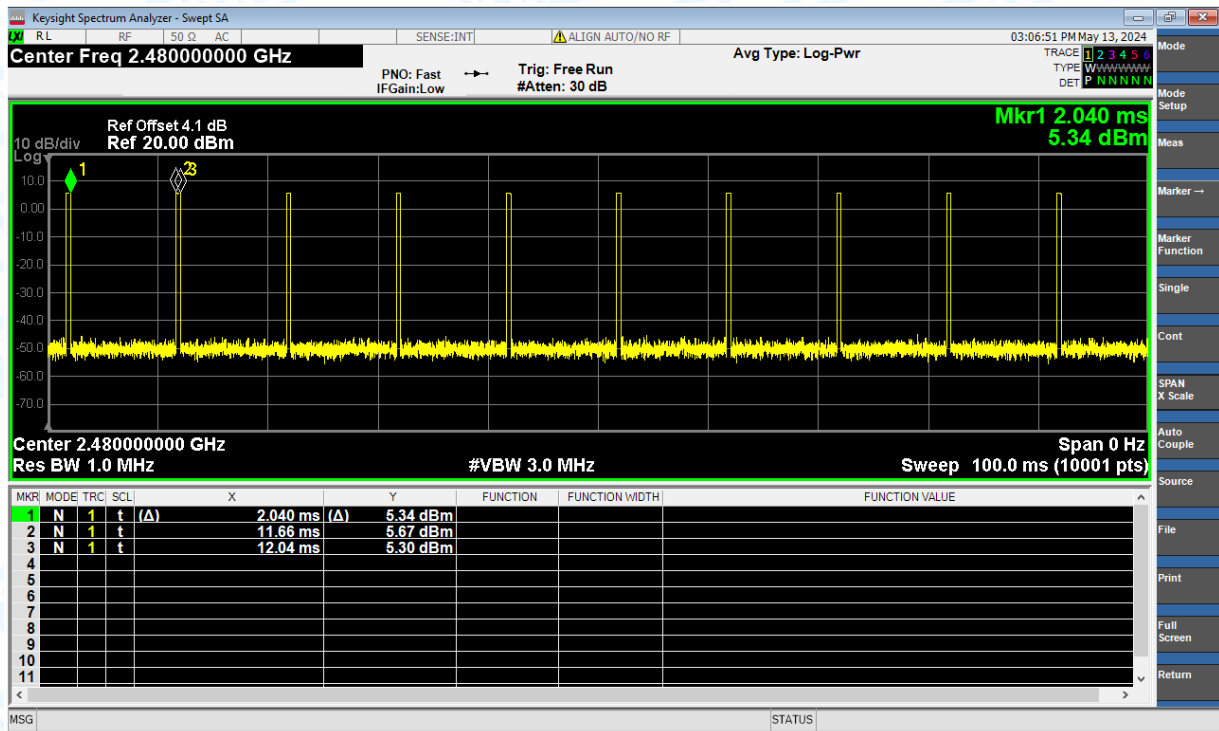
Duty Cycle NVNT 1-DH1 2402MHz Ant1



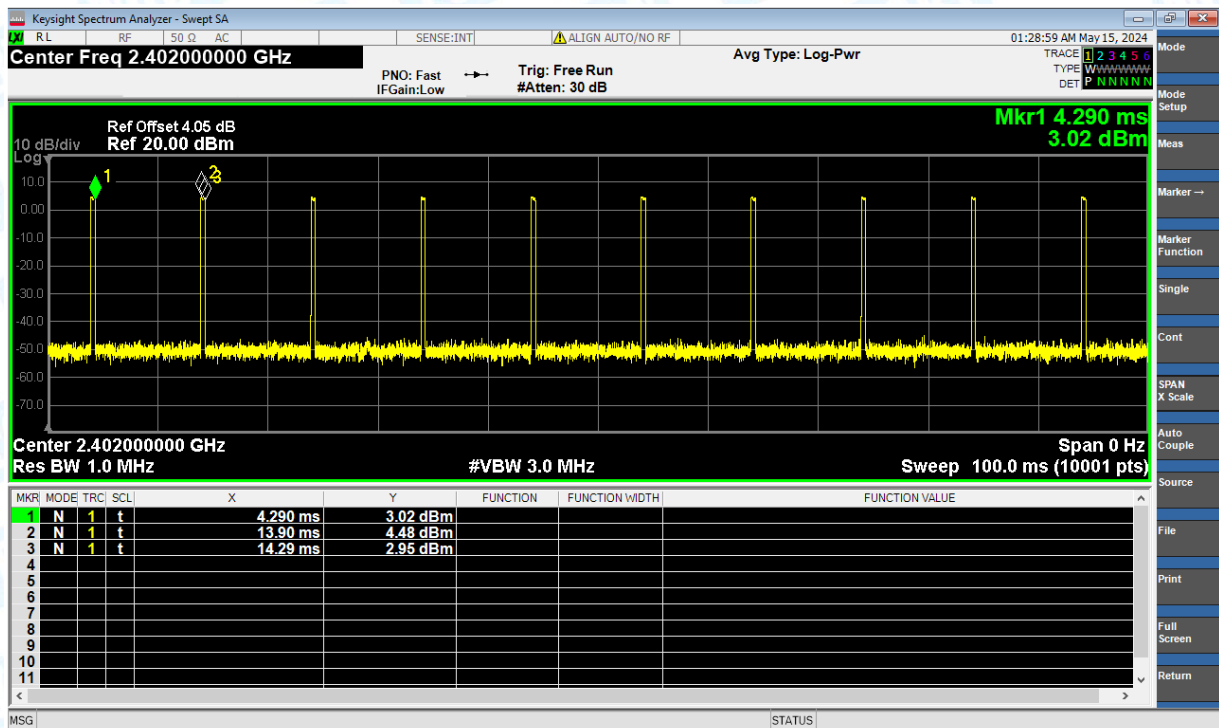
Duty Cycle NVNT 1-DH1 2441MHz Ant1



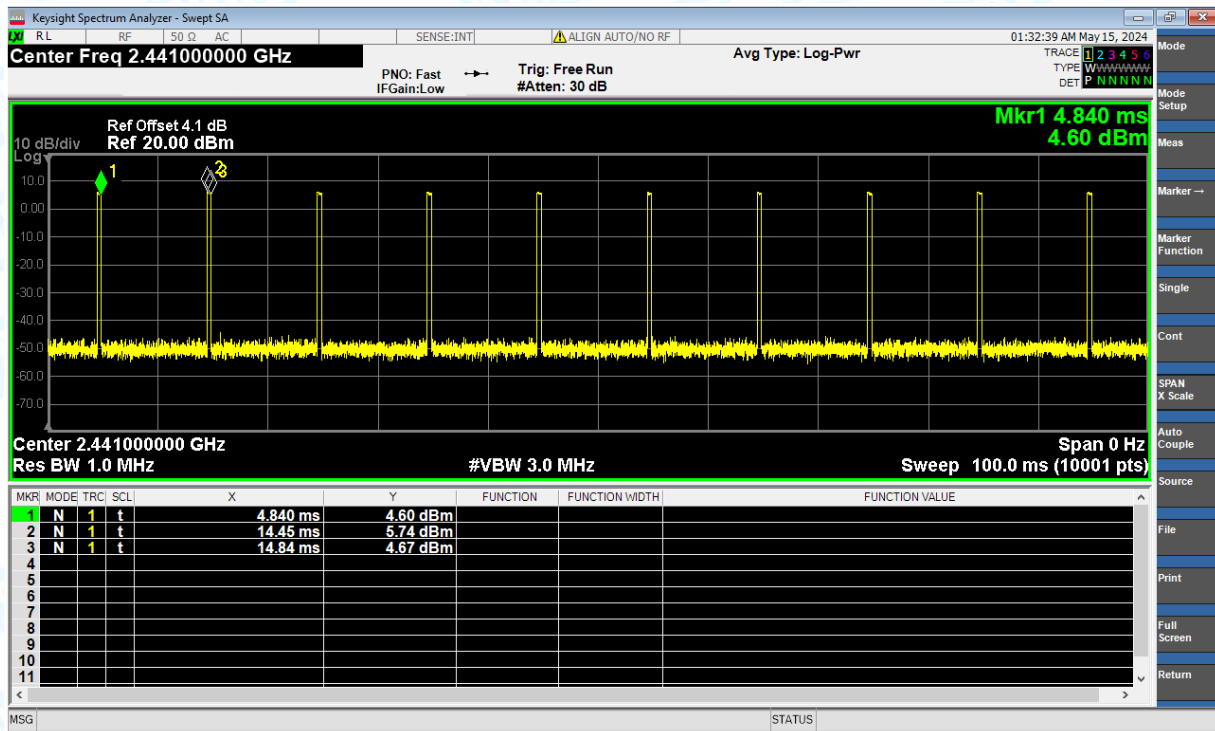
Duty Cycle NVNT 1-DH1 2480MHz Ant1



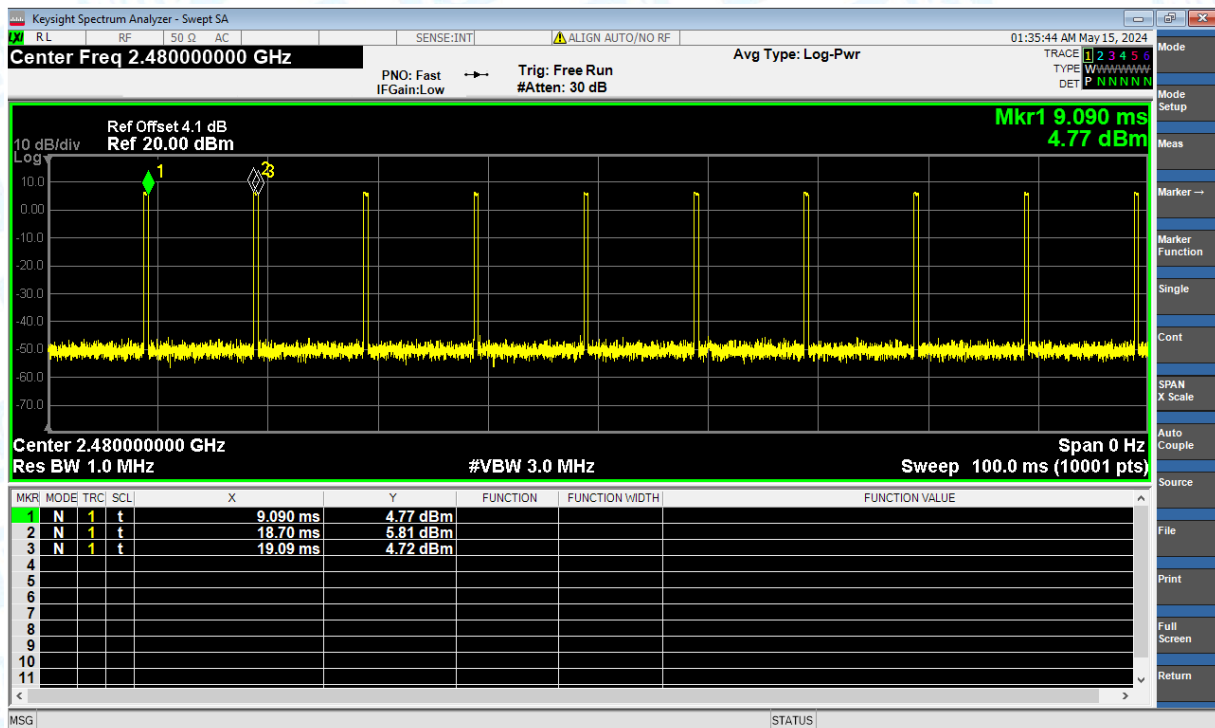
Duty Cycle NVNT 2-DH1 2402MHz Ant1



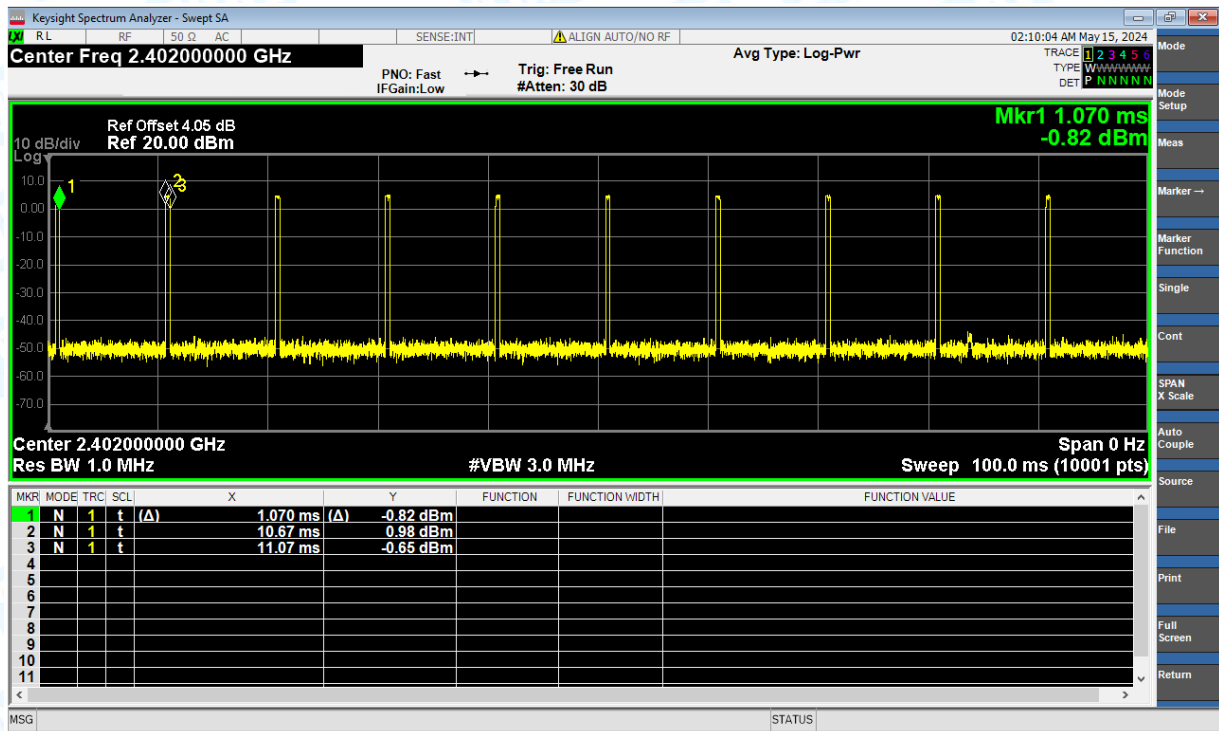
Duty Cycle NVNT 2-DH1 2441MHz Ant1



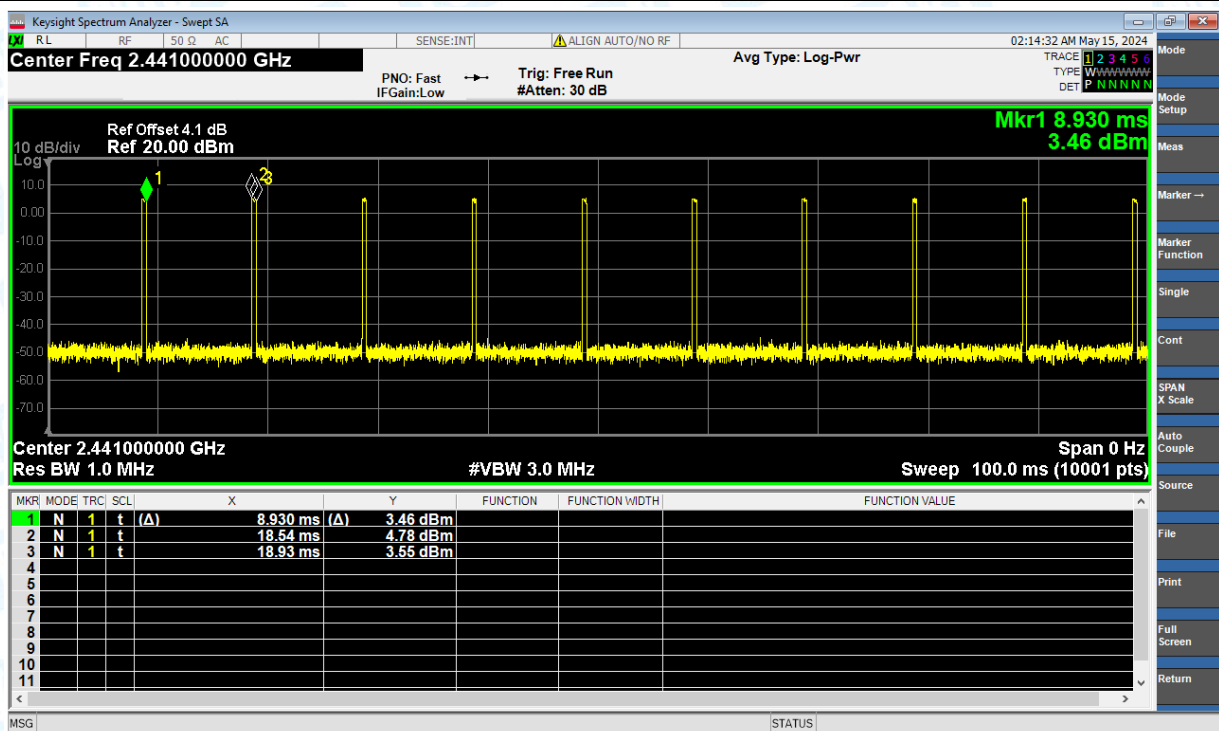
Duty Cycle NVNT 2-DH1 2480MHz Ant1

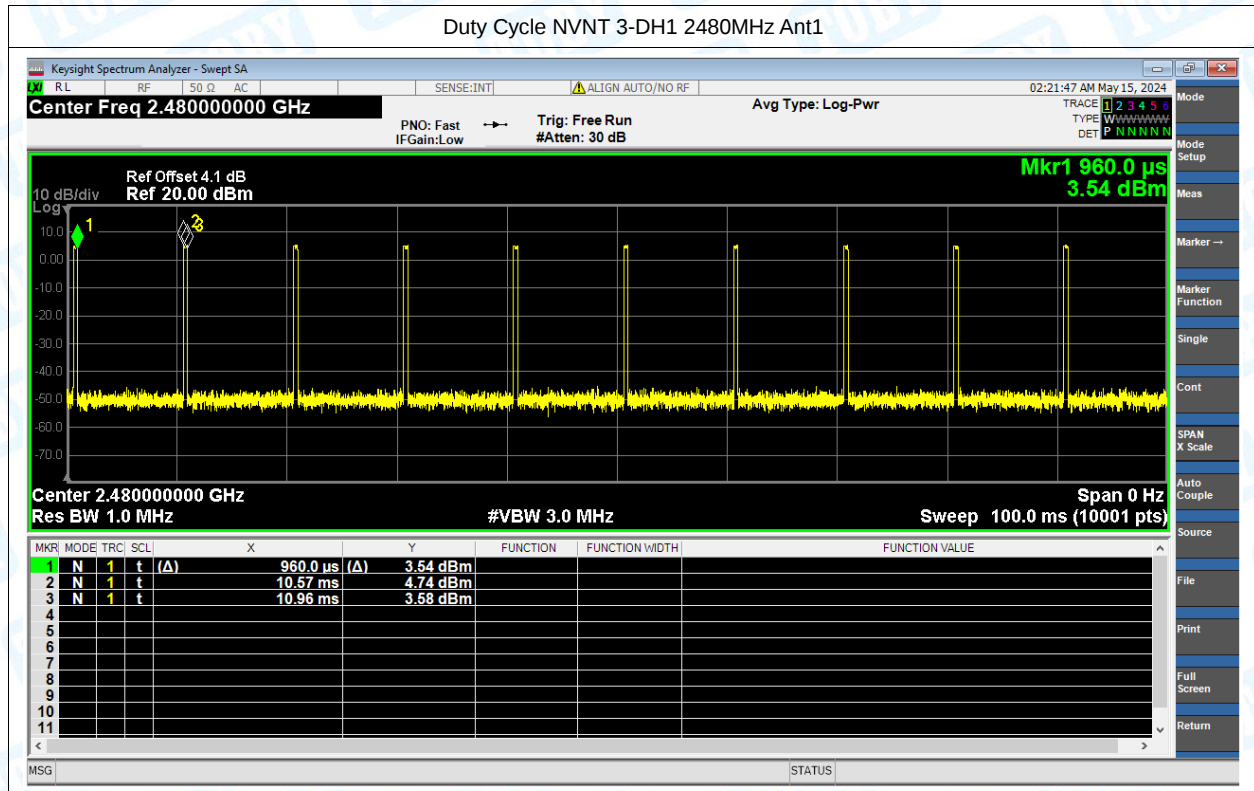


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



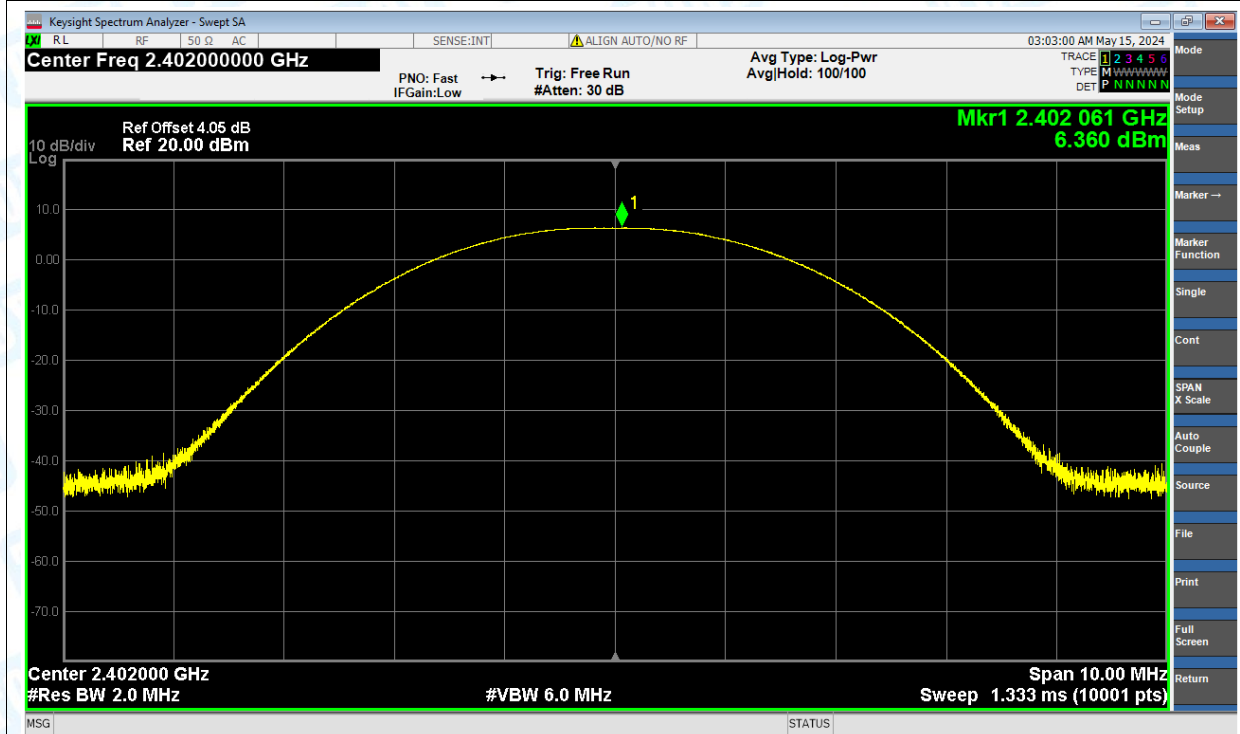


2. Maximum Conducted Output Power

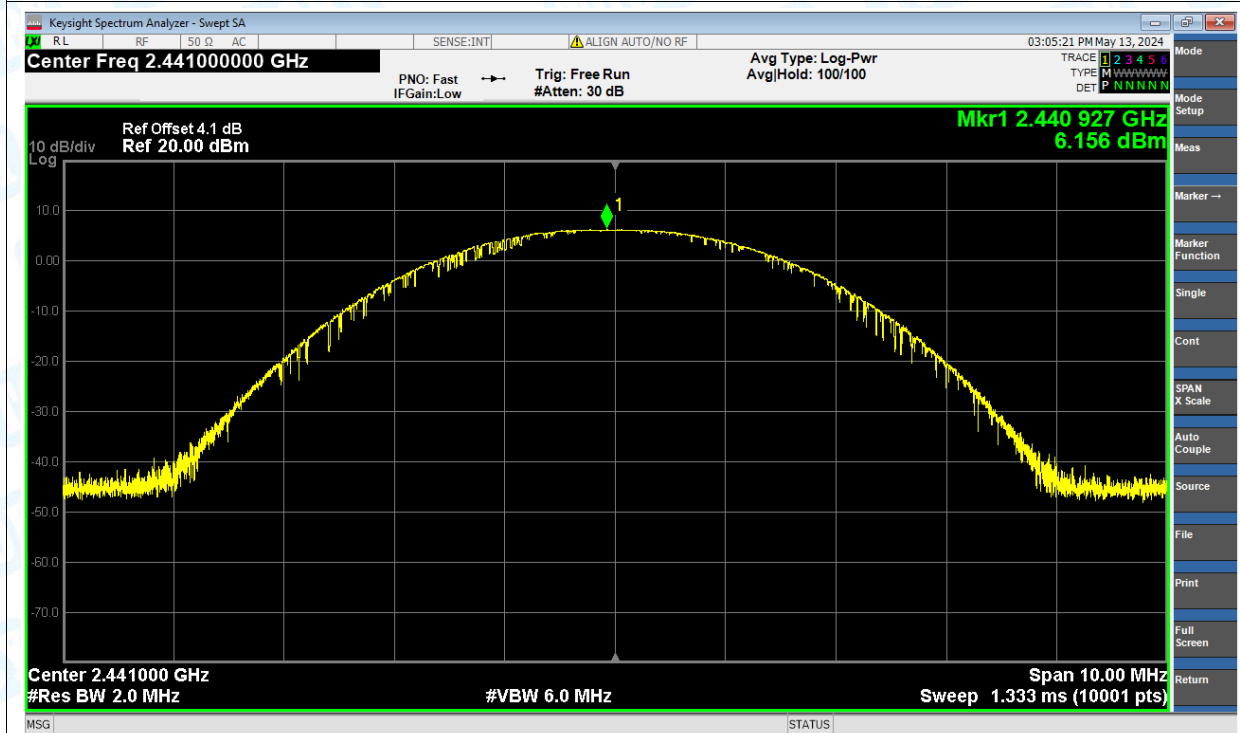
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	6.36	21	Pass
NVNT	1-DH1	2441	Ant1	6.156	21	Pass
NVNT	1-DH1	2480	Ant1	5.856	21	Pass
NVNT	1-DH3	2441	Ant1	6.477	21	Pass
NVNT	1-DH5	2441	Ant1	6.469	21	Pass
NVNT	2-DH1	2402	Ant1	4.969	21	Pass
NVNT	2-DH1	2441	Ant1	6.231	21	Pass
NVNT	2-DH1	2480	Ant1	6.38	21	Pass
NVNT	2-DH3	2441	Ant1	6.465	21	Pass
NVNT	2-DH5	2441	Ant1	6.562	21	Pass
NVNT	3-DH1	2402	Ant1	5.325	21	Pass
NVNT	3-DH1	2441	Ant1	5.646	21	Pass
NVNT	3-DH1	2480	Ant1	5.433	21	Pass
NVNT	3-DH3	2441	Ant1	6.577	21	Pass
NVNT	3-DH5	2441	Ant1	5.59	21	Pass

Test Graphs

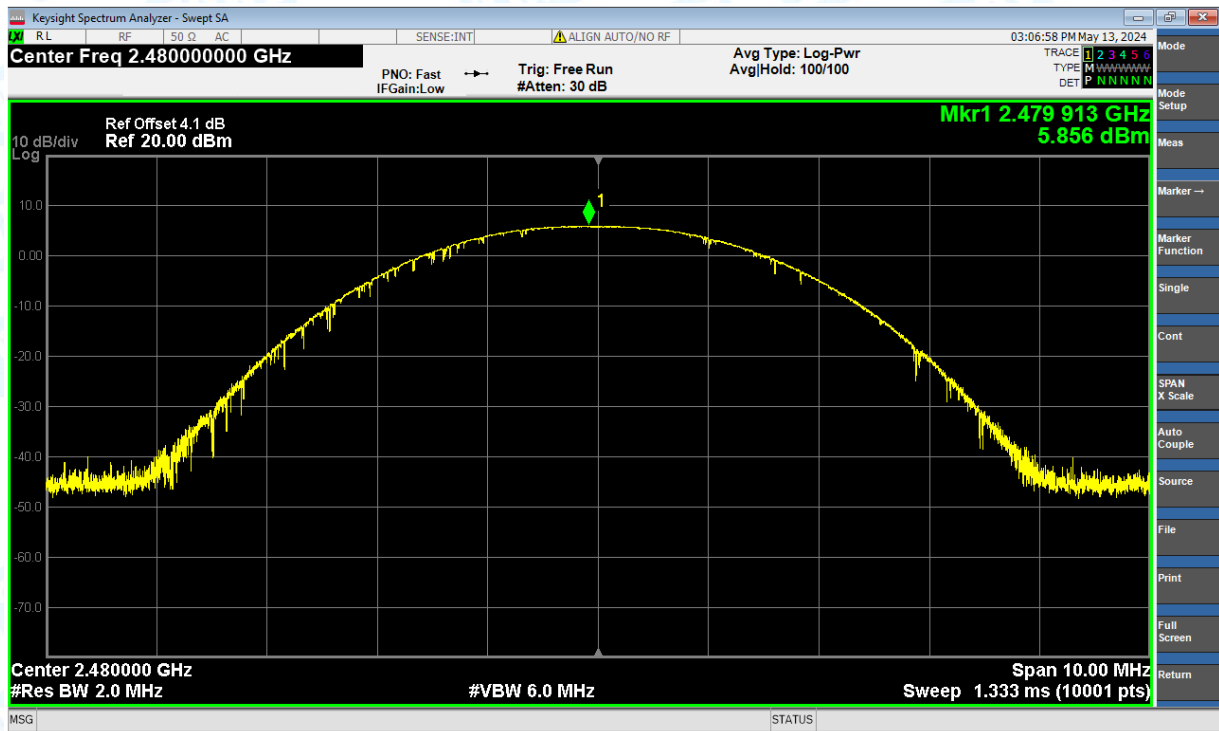
Power NVNT 1-DH1 2402MHz Ant1



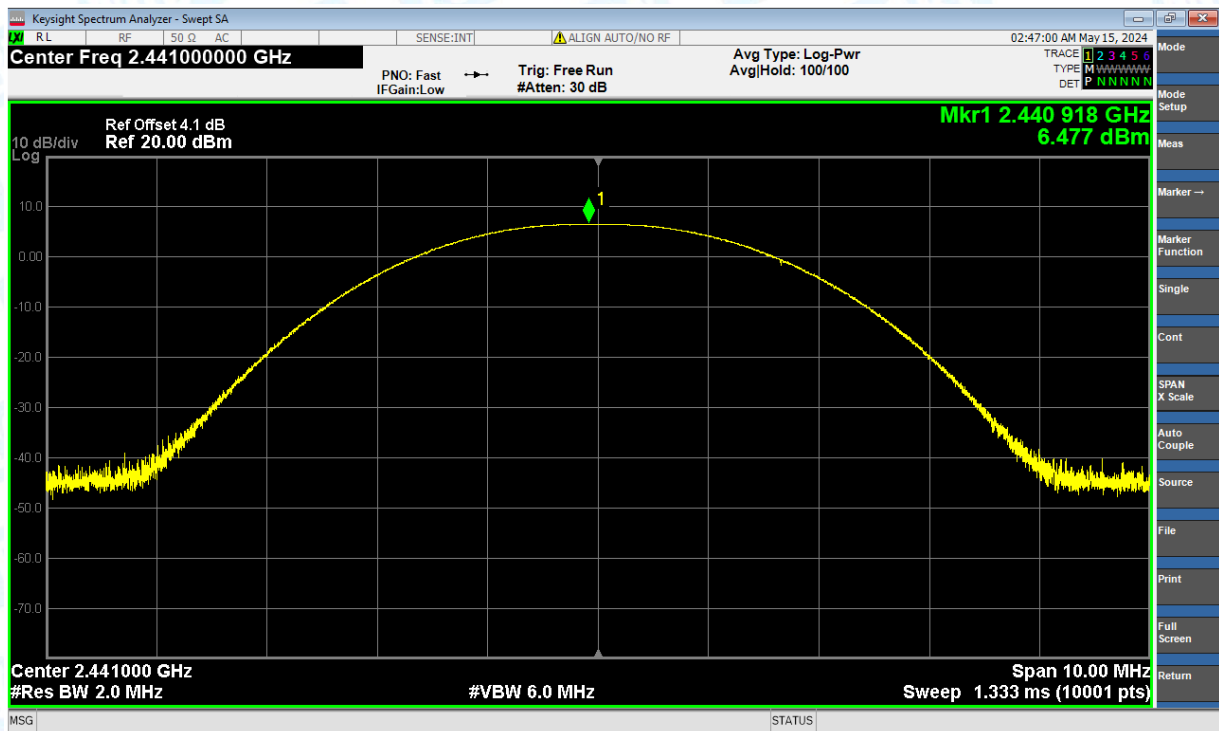
Power NVNT 1-DH1 2441MHz Ant1



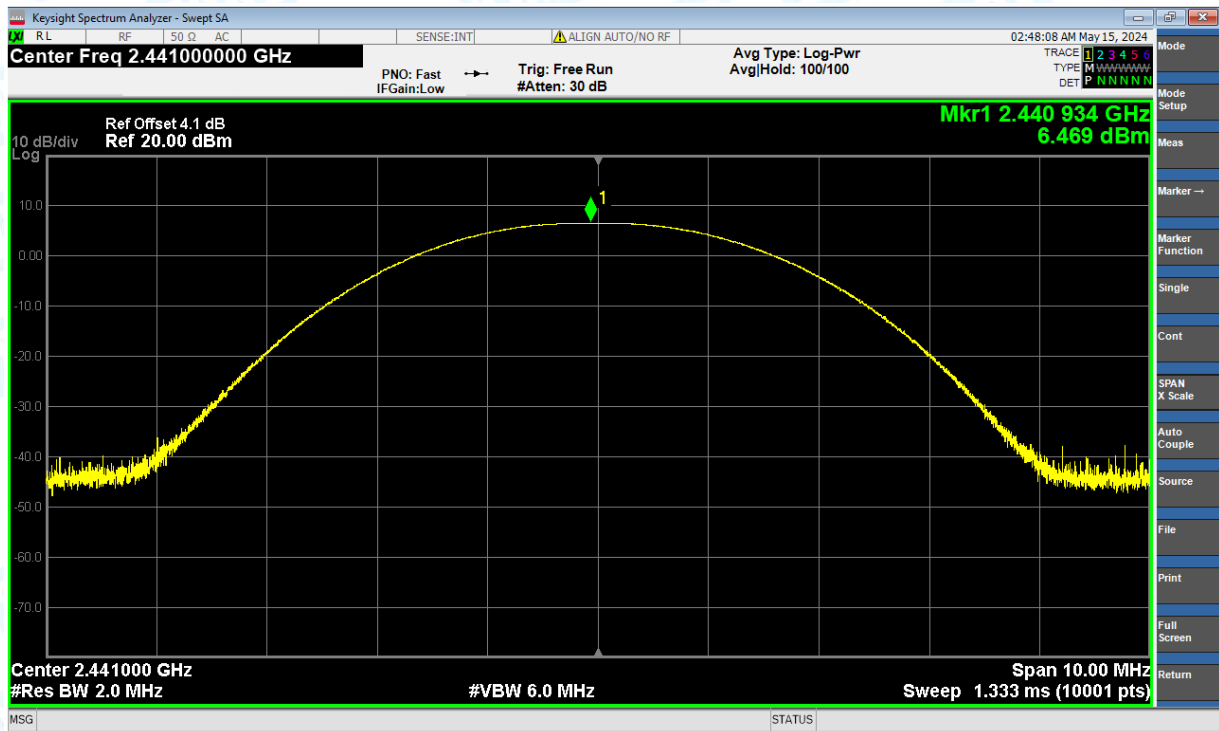
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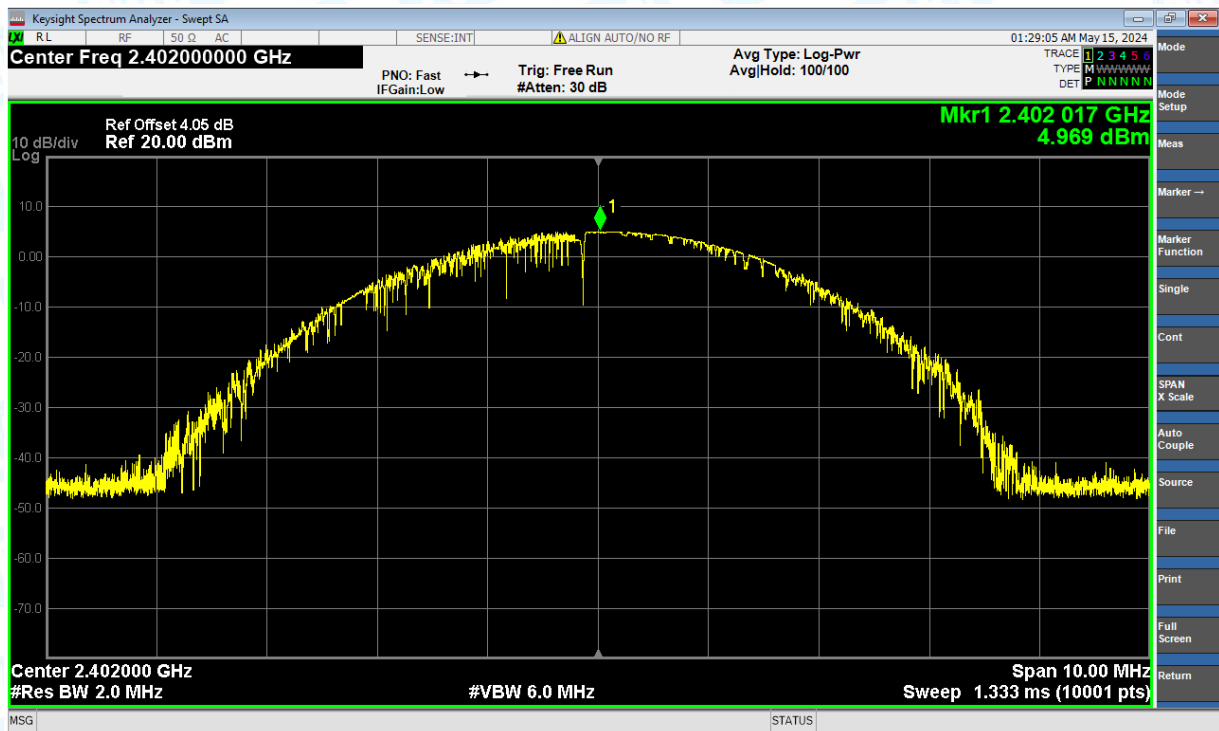
Power NVNT 1-DH3 2441MHz Ant1



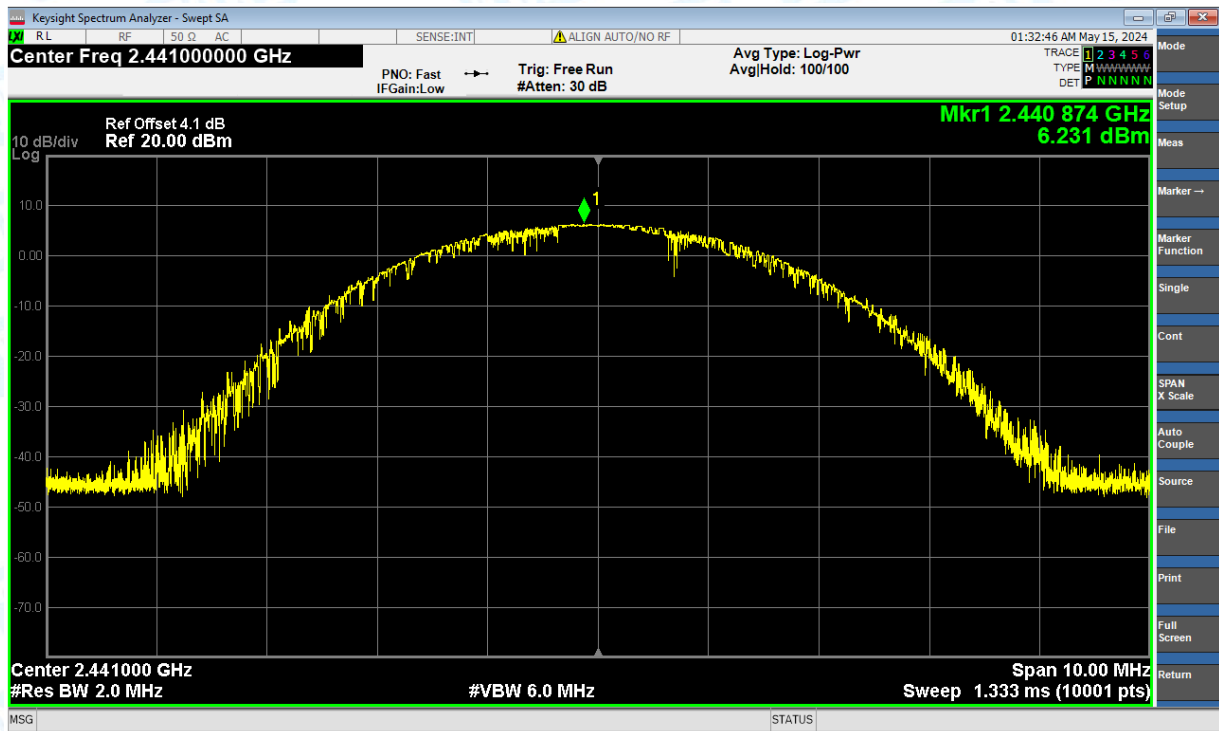
Power NVNT 1-DH5 2441MHz Ant1



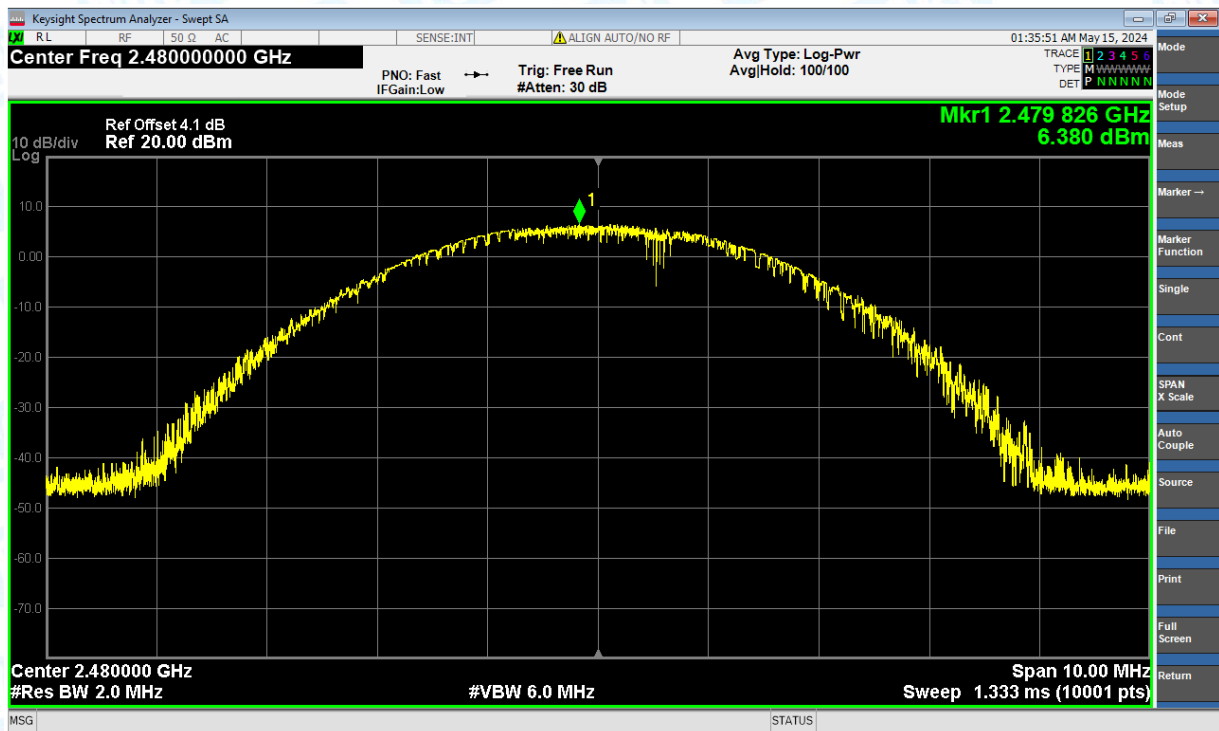
Power NVNT 2-DH1 2402MHz Ant1



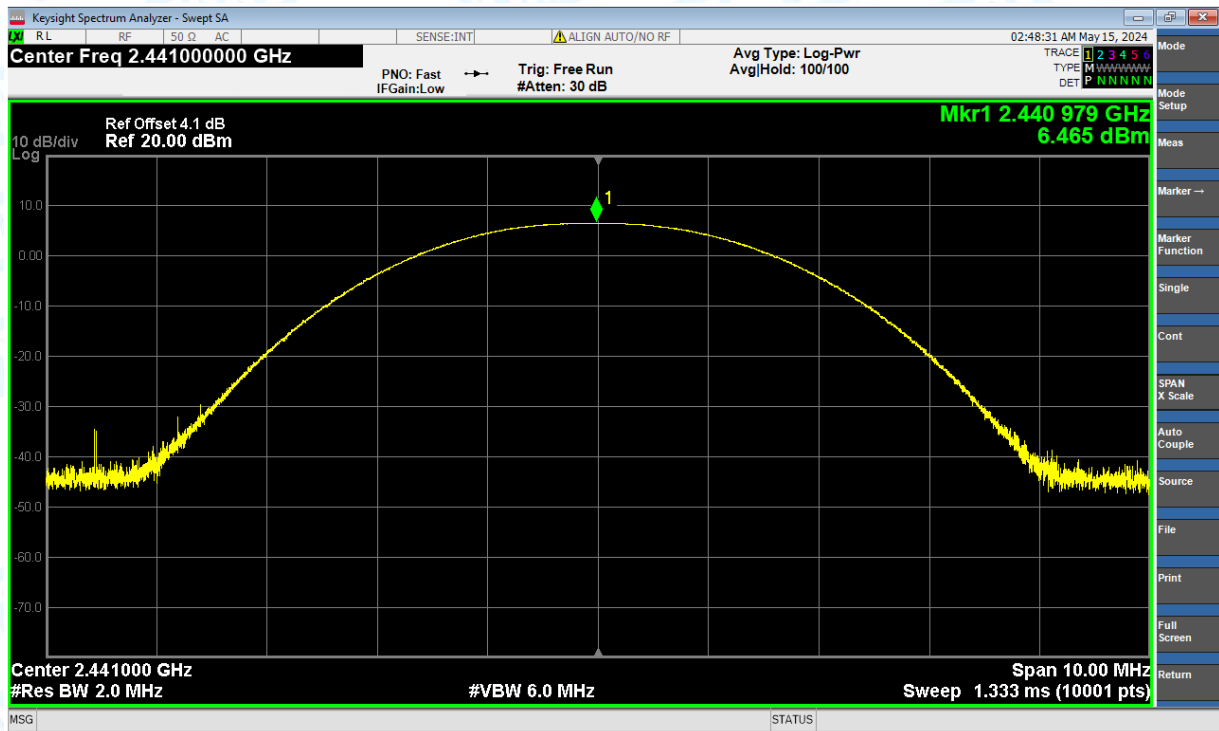
Power NVNT 2-DH1 2441MHz Ant1



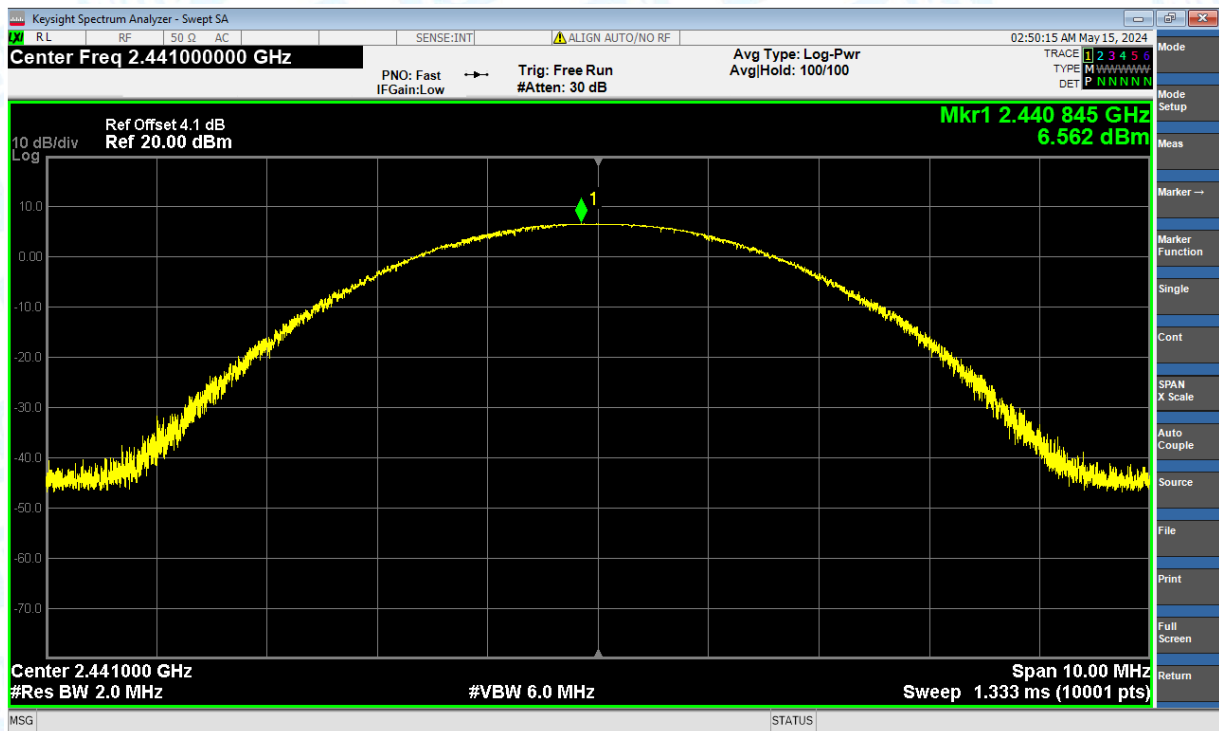
Power NVNT 2-DH1 2480MHz Ant1



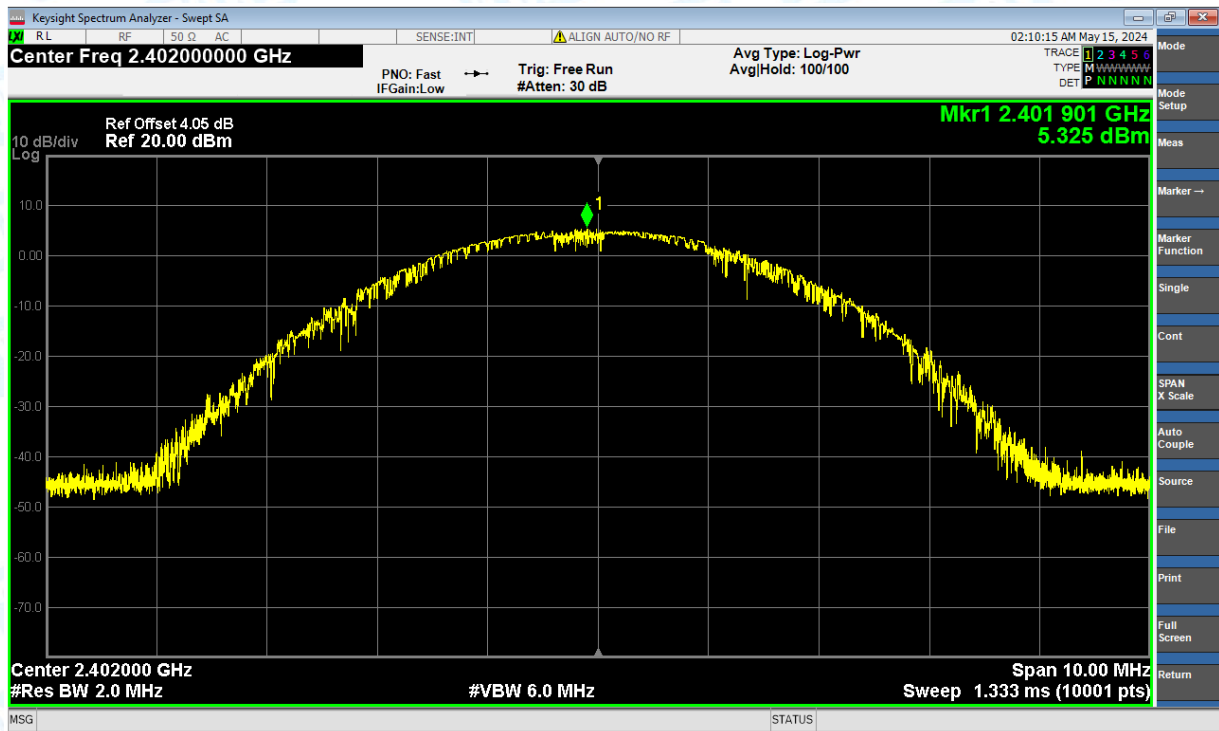
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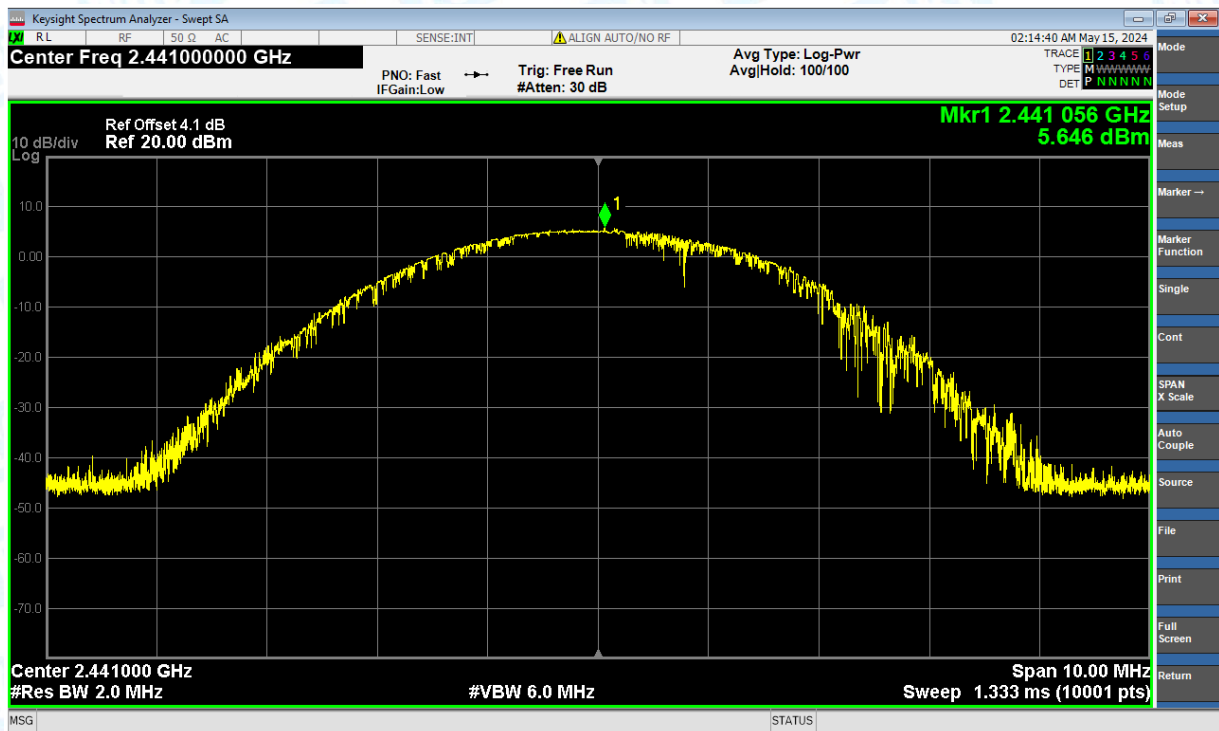
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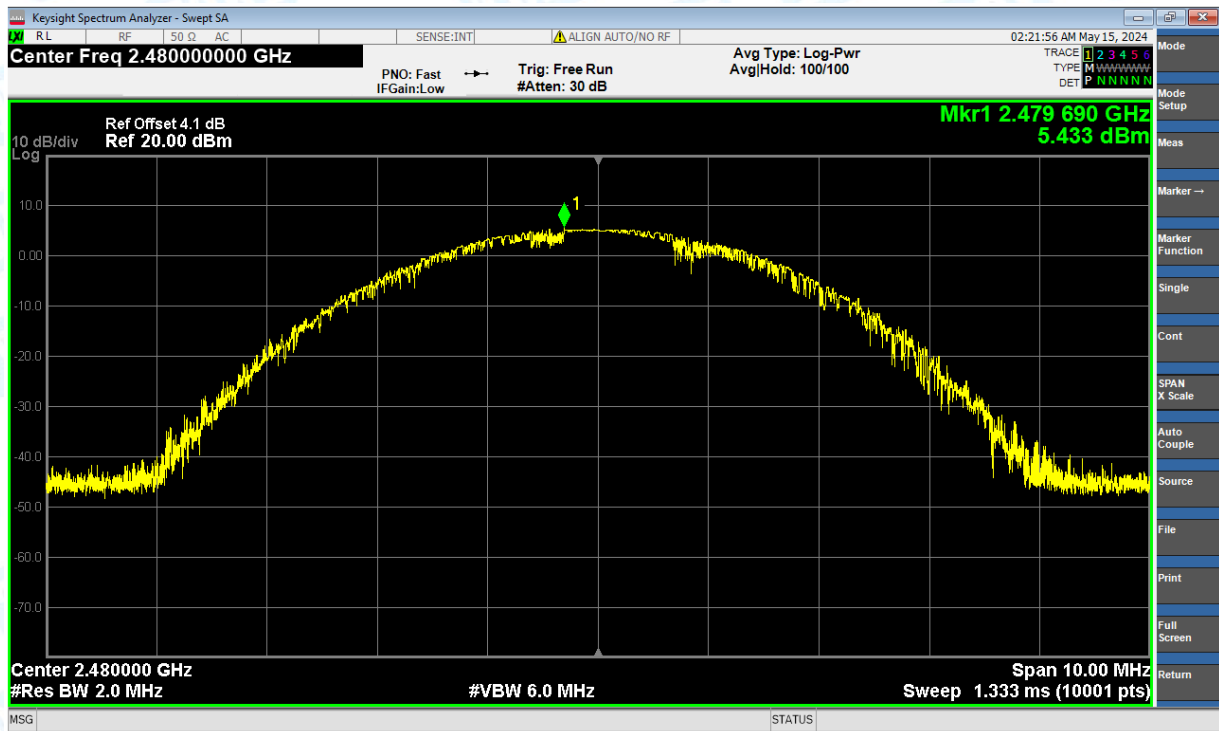
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1

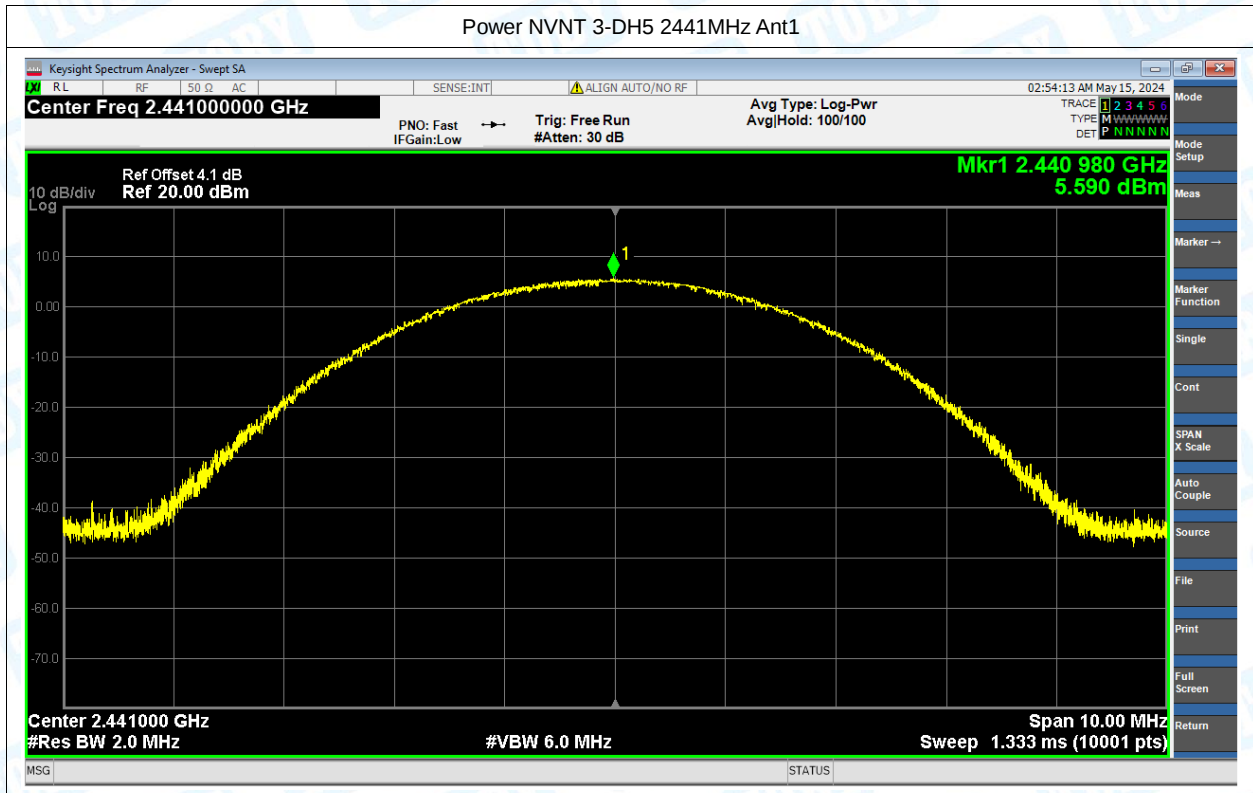


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



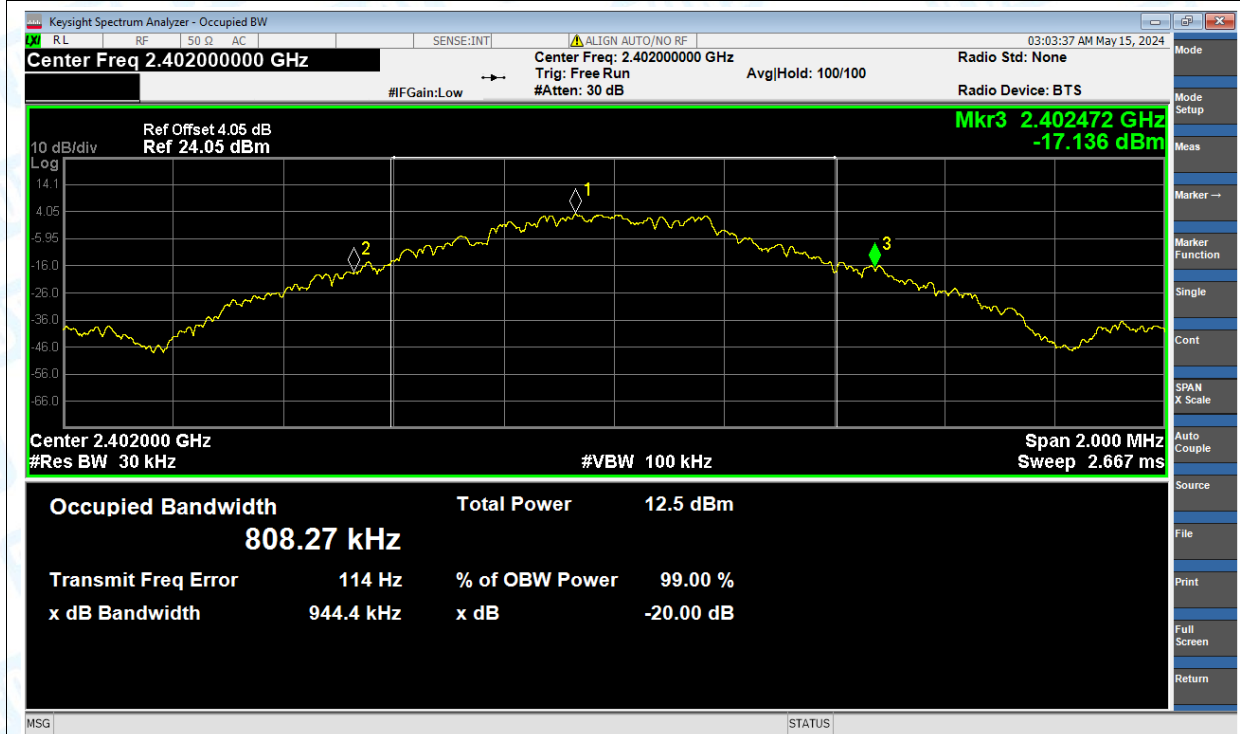


3. -20dB Bandwidth

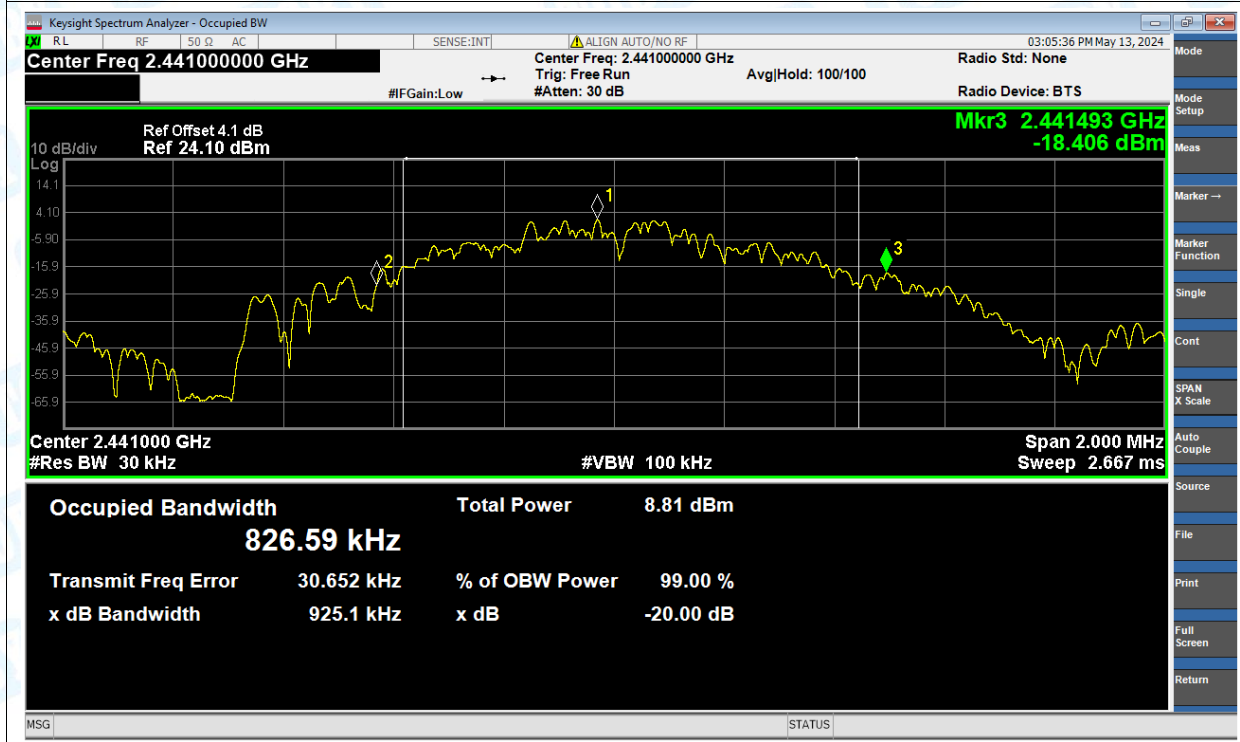
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.94	0	Pass
NVNT	1-DH1	2441	Ant1	0.93	0	Pass
NVNT	1-DH1	2480	Ant1	0.85	0	Pass
NVNT	2-DH1	2402	Ant1	1.22	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.16	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.19	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

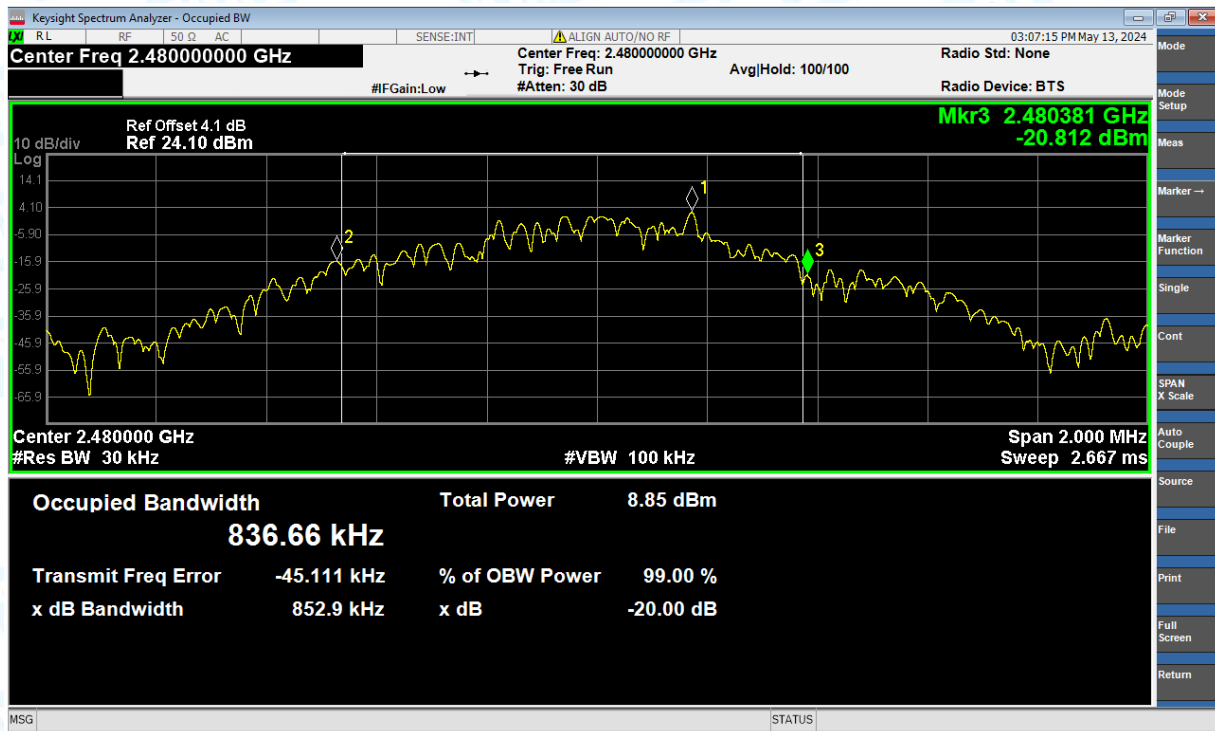
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



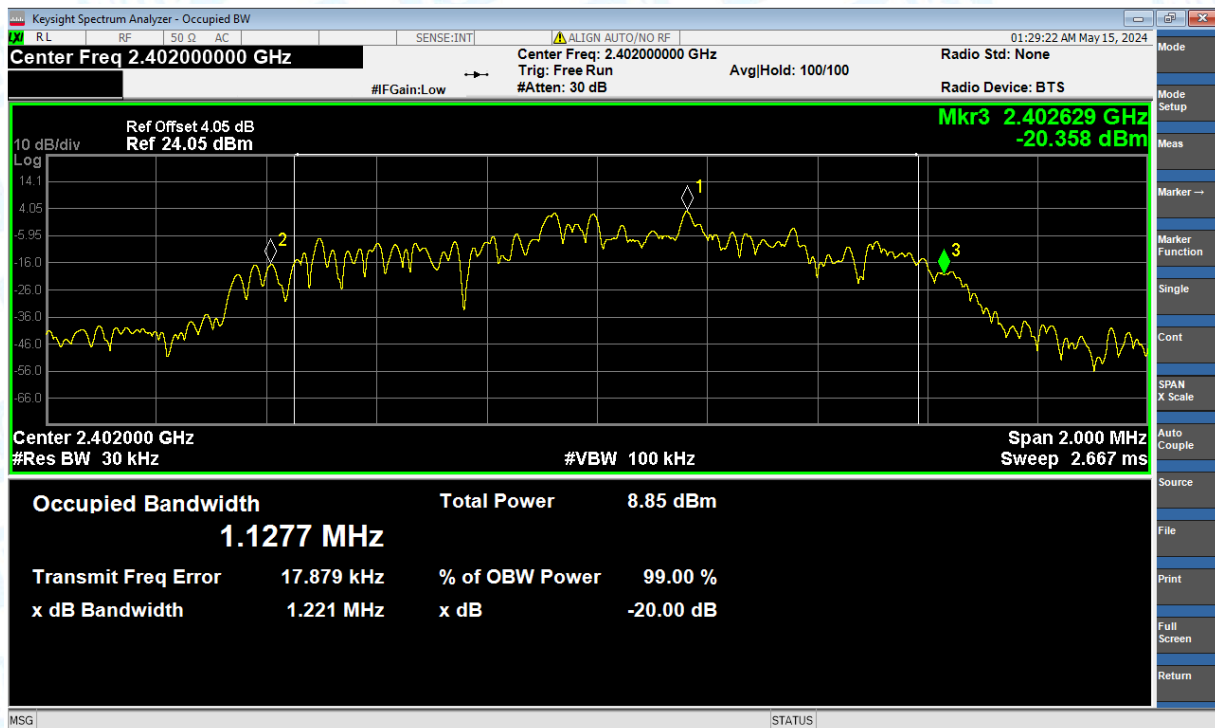
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



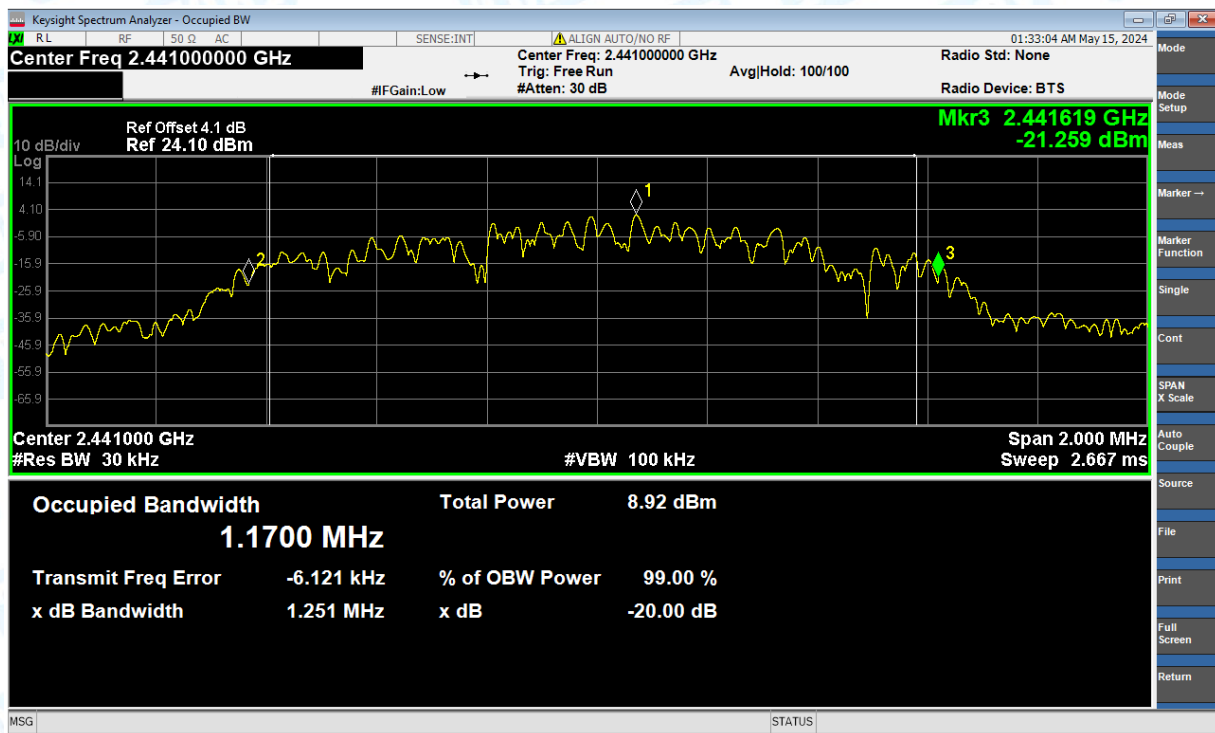
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



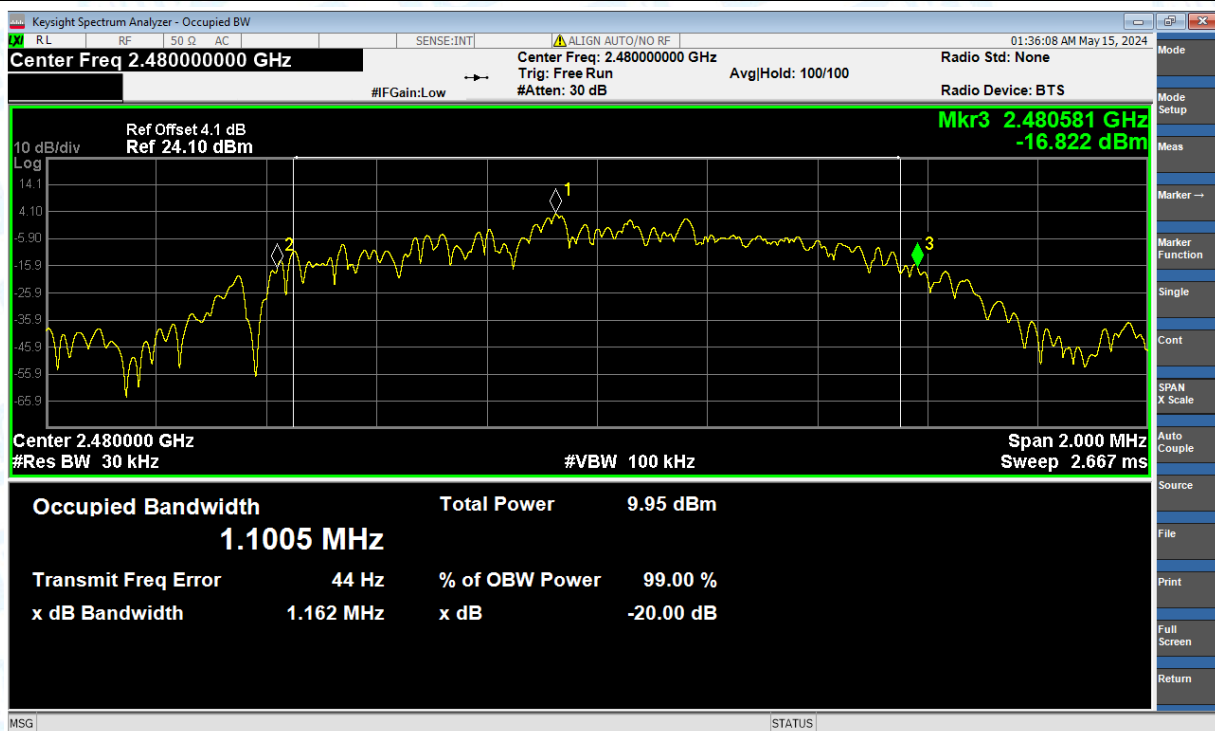
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



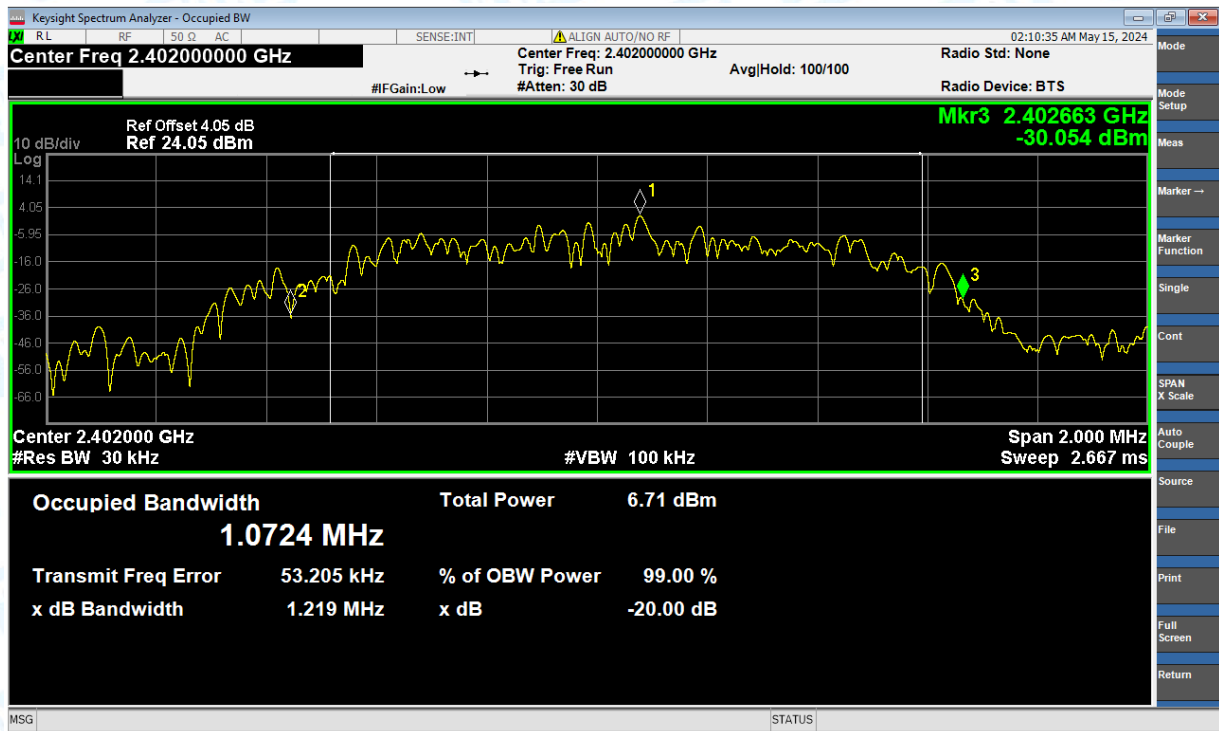
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



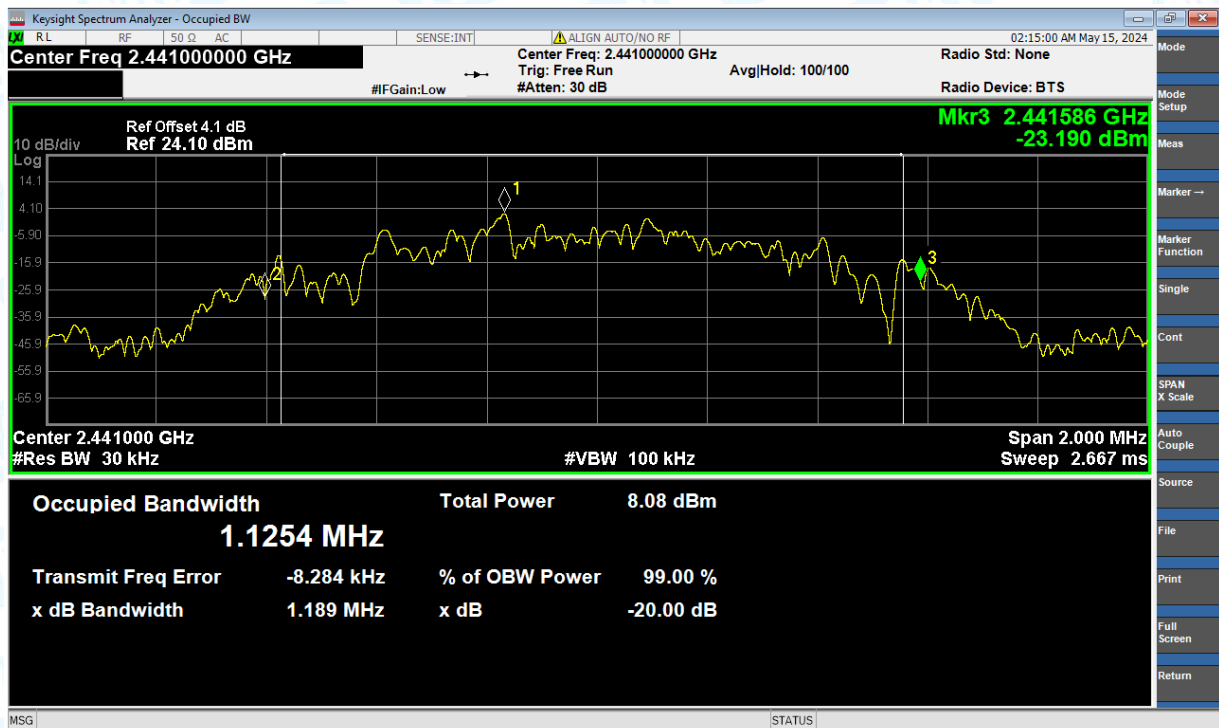
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

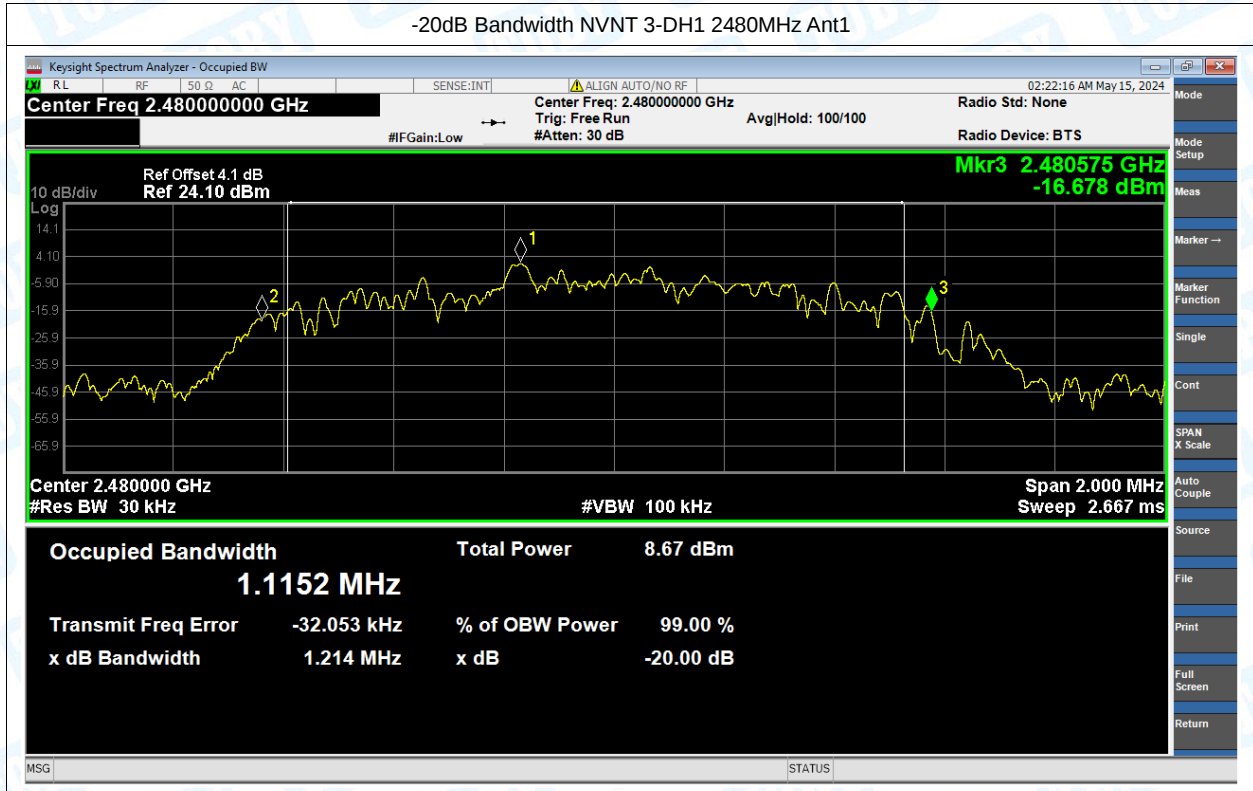


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



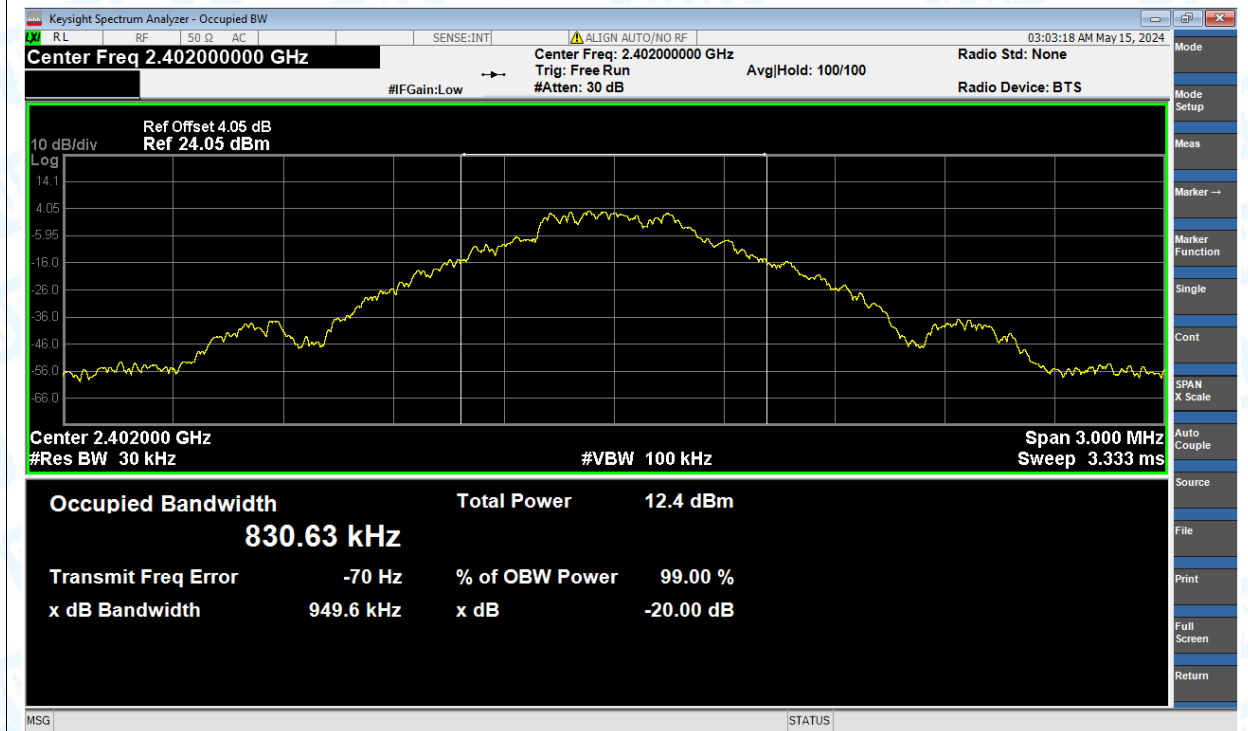


4. Occupied Channel Bandwidth

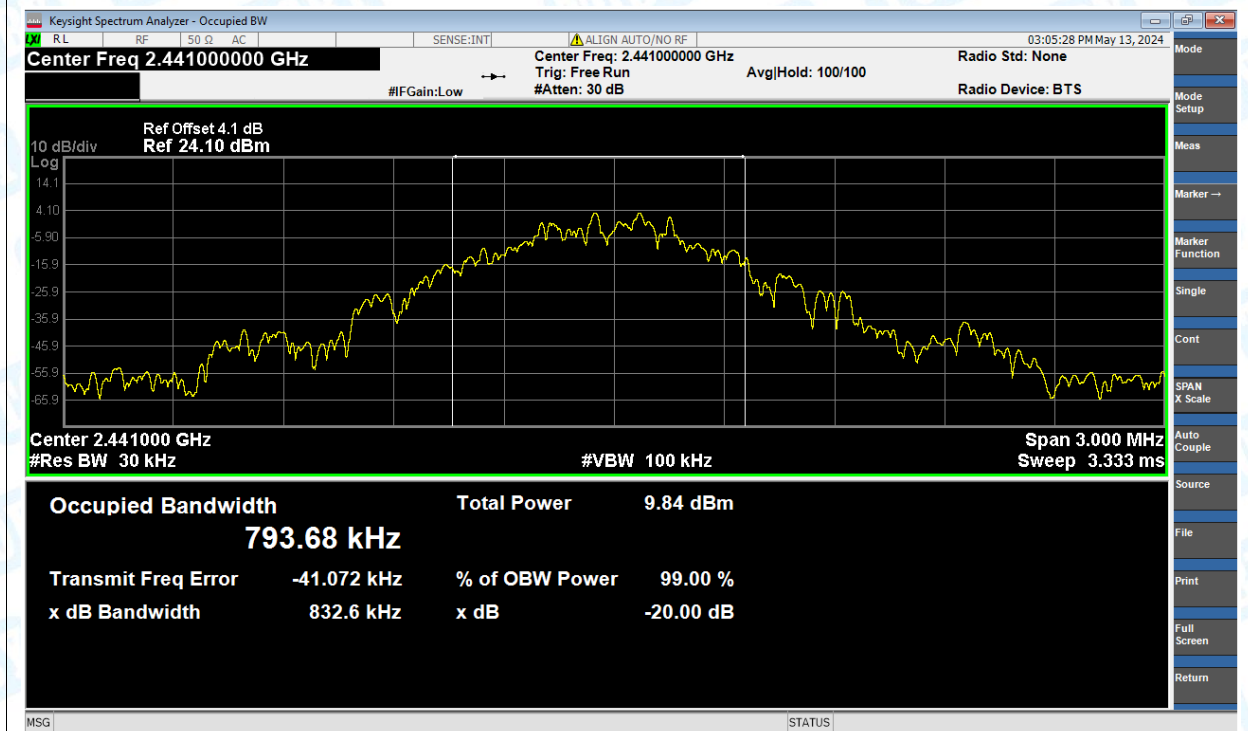
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.831
NVNT	1-DH1	2441	Ant1	0.794
NVNT	1-DH1	2480	Ant1	0.898
NVNT	2-DH1	2402	Ant1	1.117
NVNT	2-DH1	2441	Ant1	1.193
NVNT	2-DH1	2480	Ant1	1.198
NVNT	3-DH1	2402	Ant1	1.125
NVNT	3-DH1	2441	Ant1	1.083
NVNT	3-DH1	2480	Ant1	1.119

Test Graphs

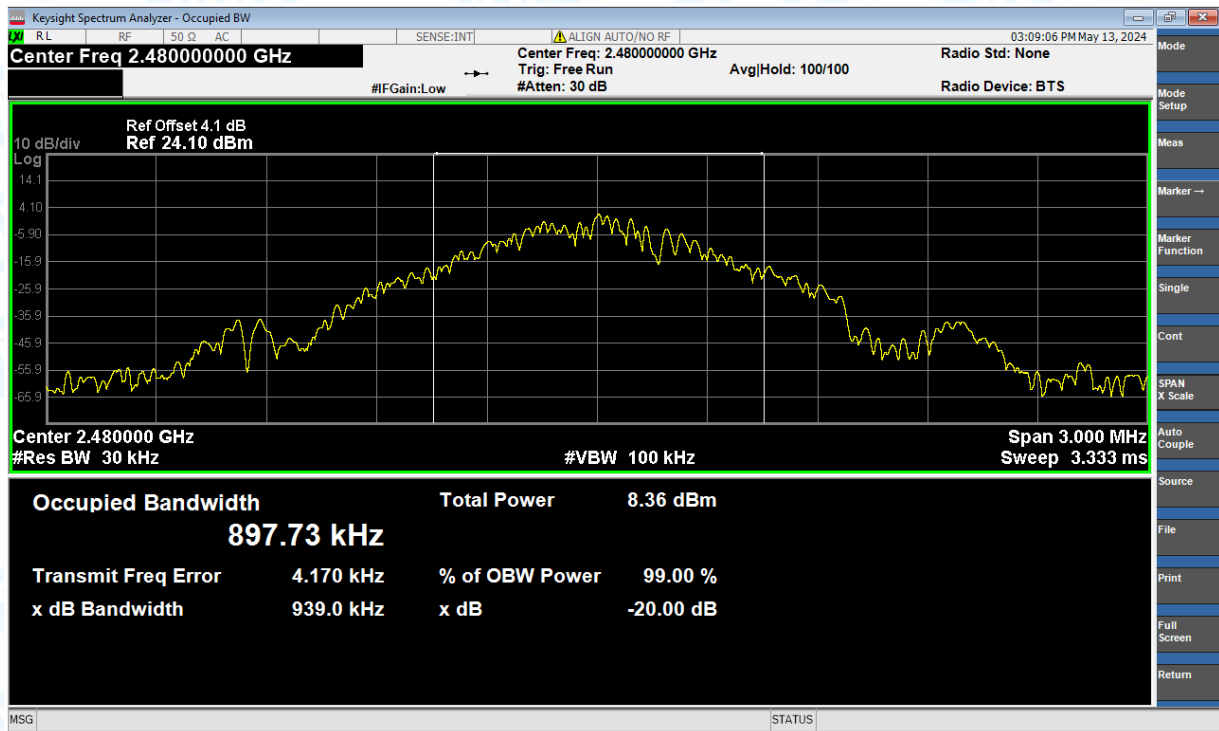
OBW NVNT 1-DH1 2402MHz Ant1



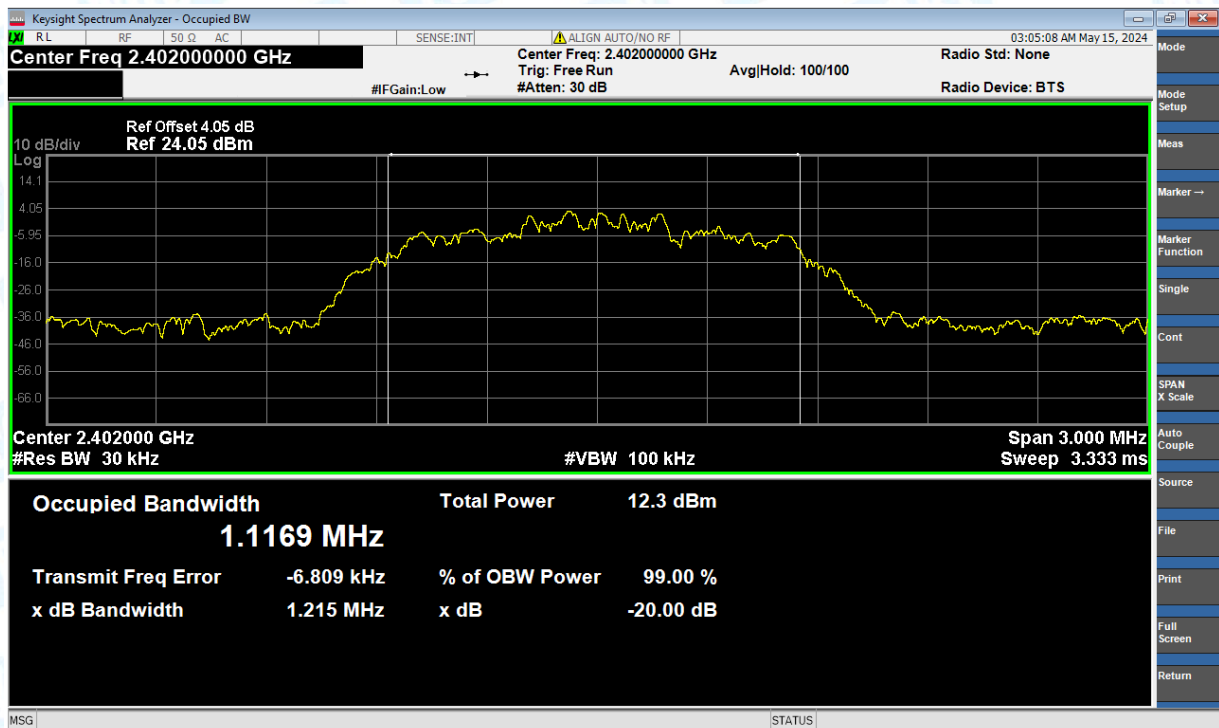
OBW NVNT 1-DH1 2441MHz Ant1



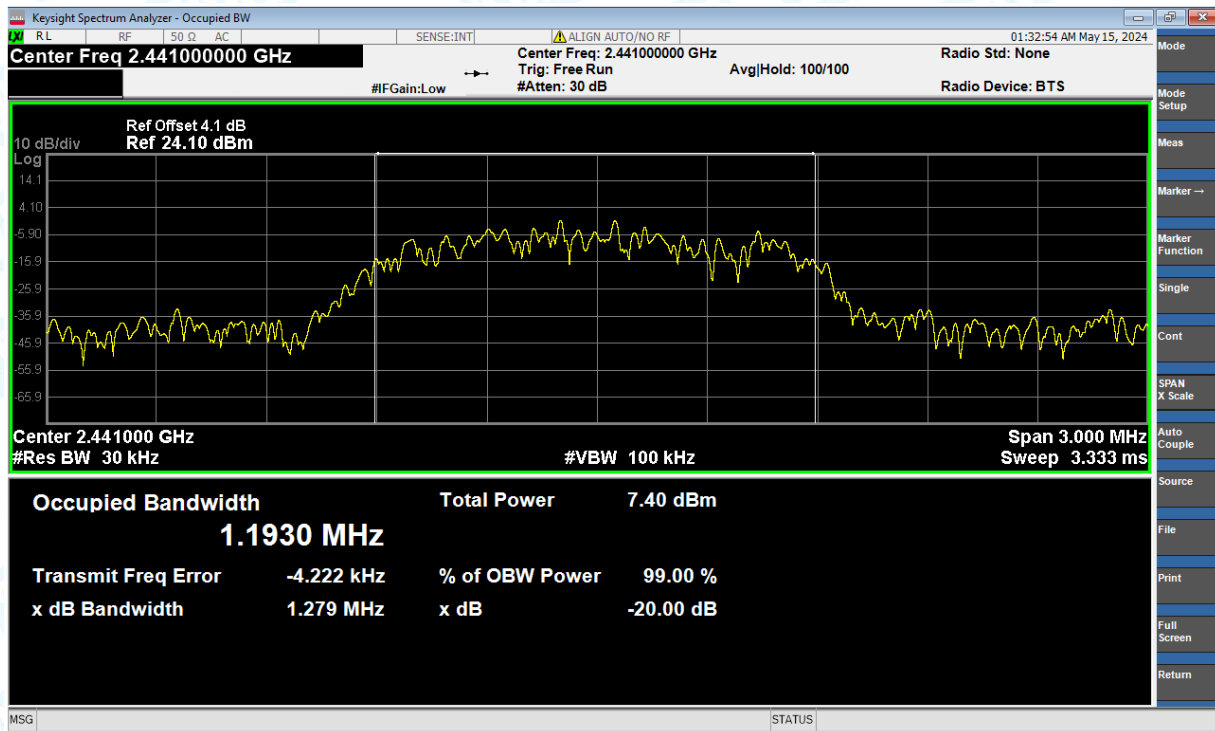
OBW NVNT 1-DH1 2480MHz Ant1



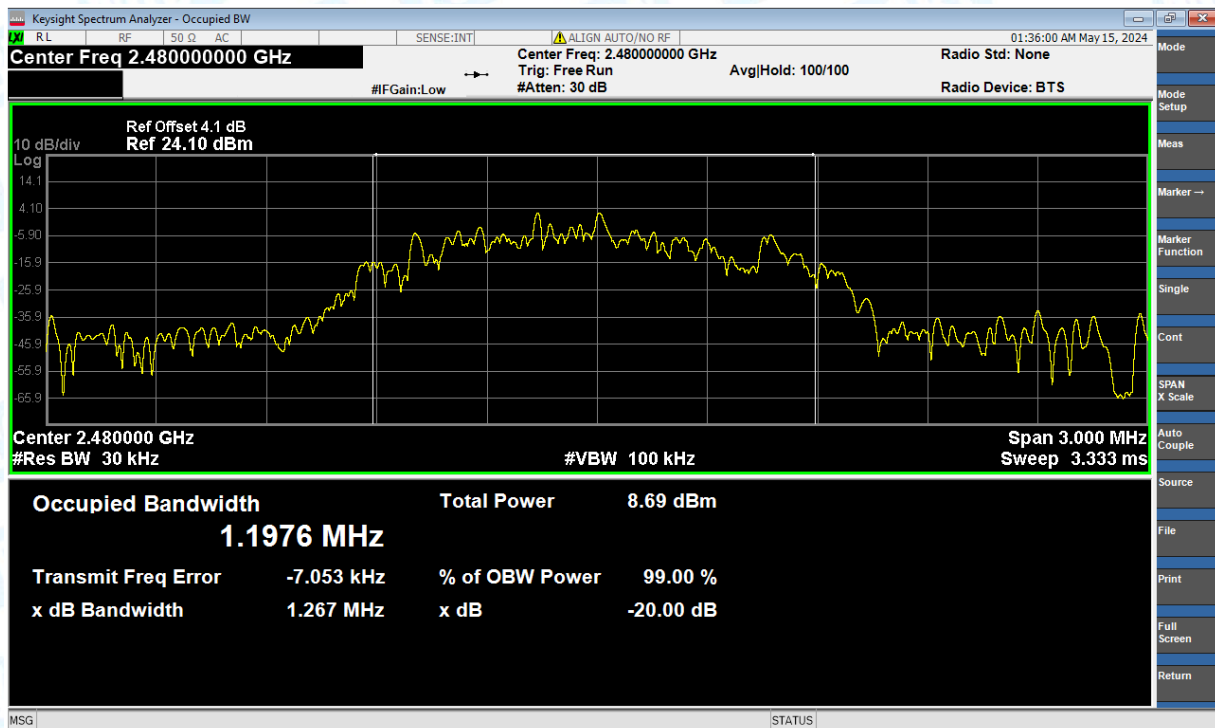
OBW NVNT 2-DH1 2402MHz Ant1



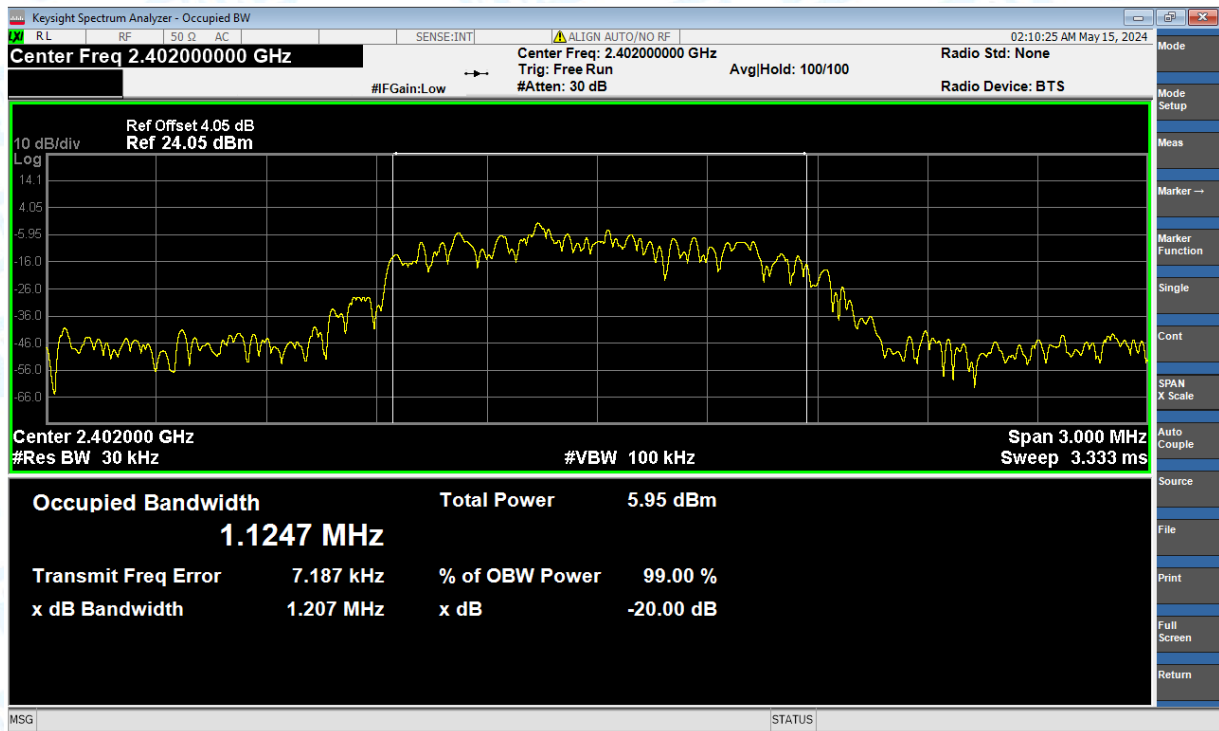
OBW NVNT 2-DH1 2441MHz Ant1



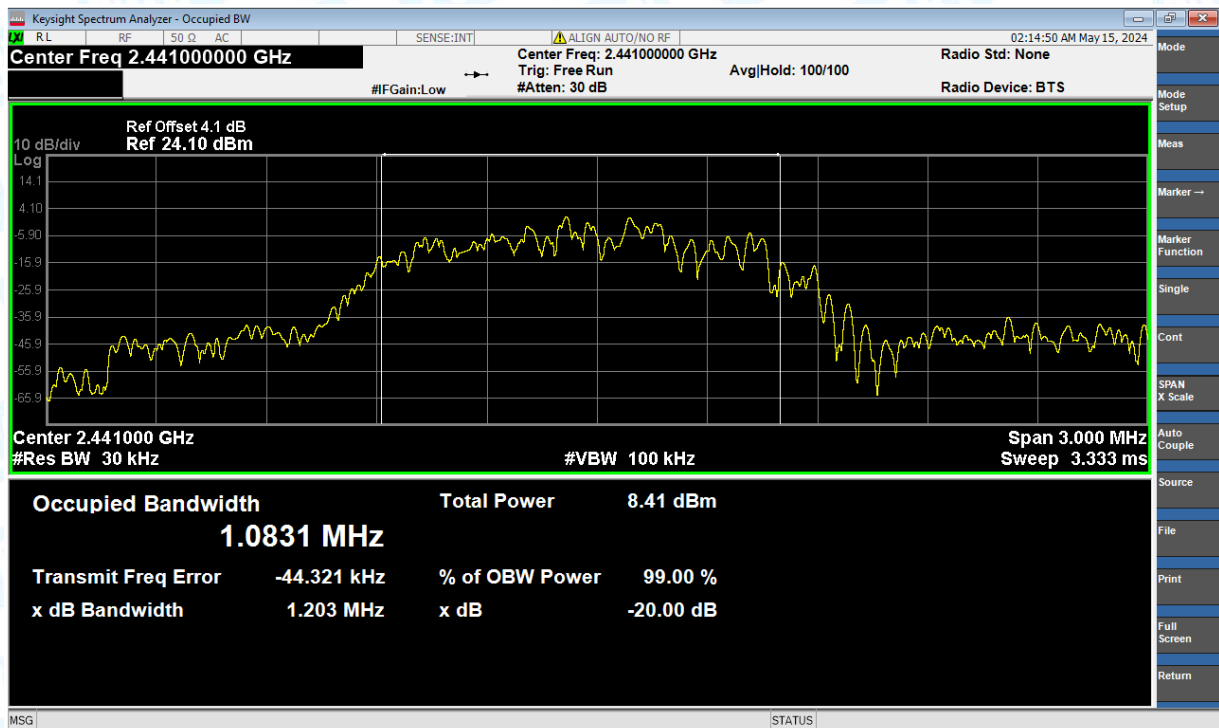
OBW NVNT 2-DH1 2480MHz Ant1

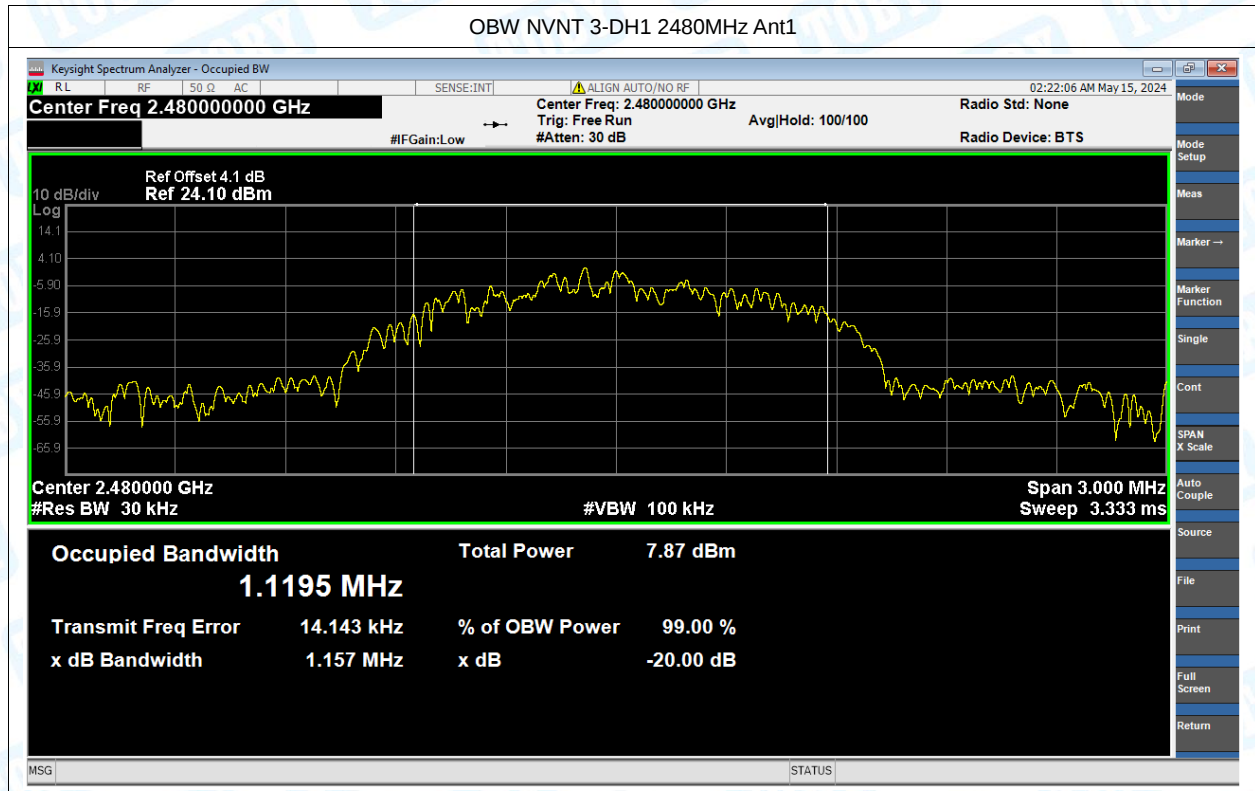


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



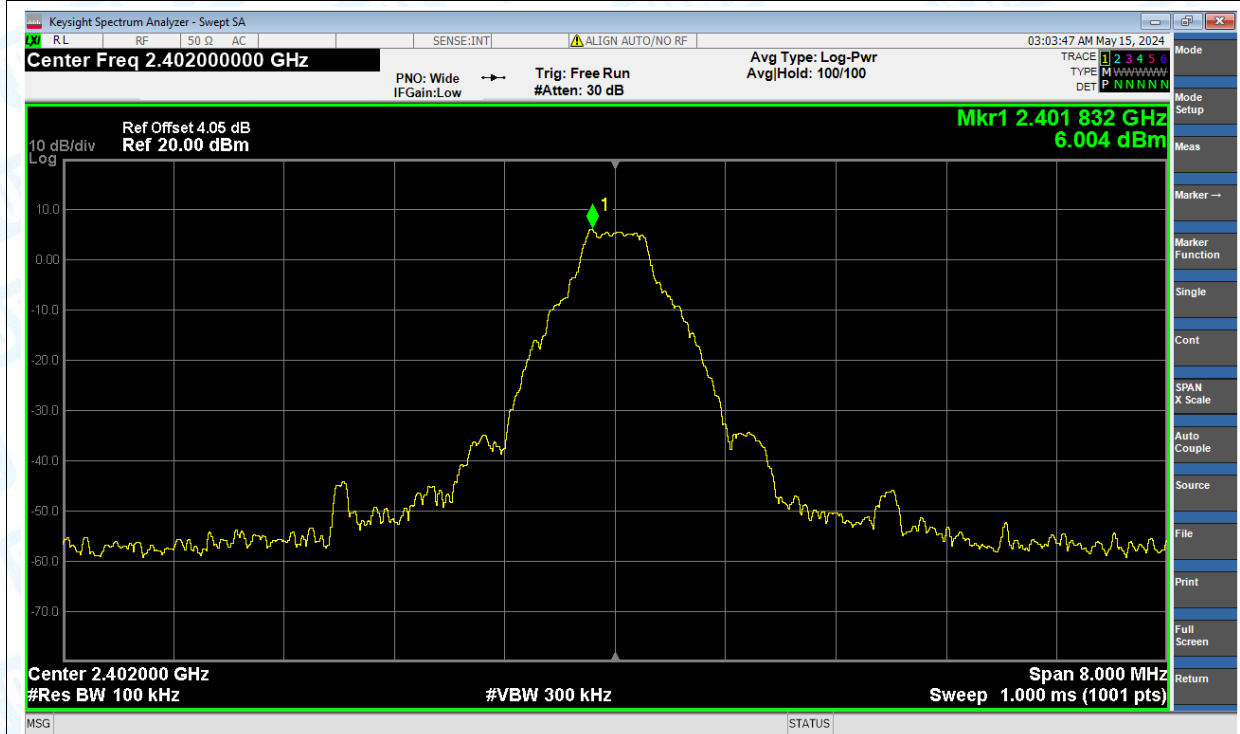


5. Band Edge

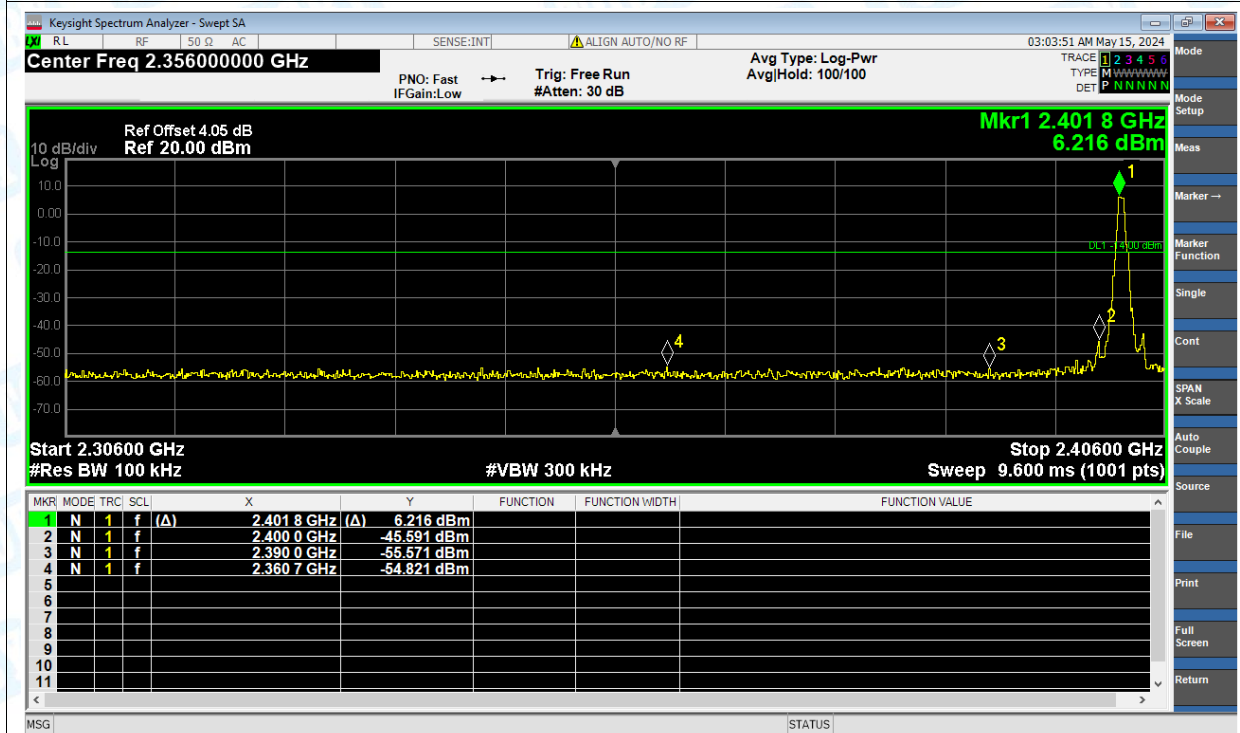
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-60.82	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-59.75	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-58.52	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-60.61	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-56.06	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-57.78	-20	Pass

Test Graphs

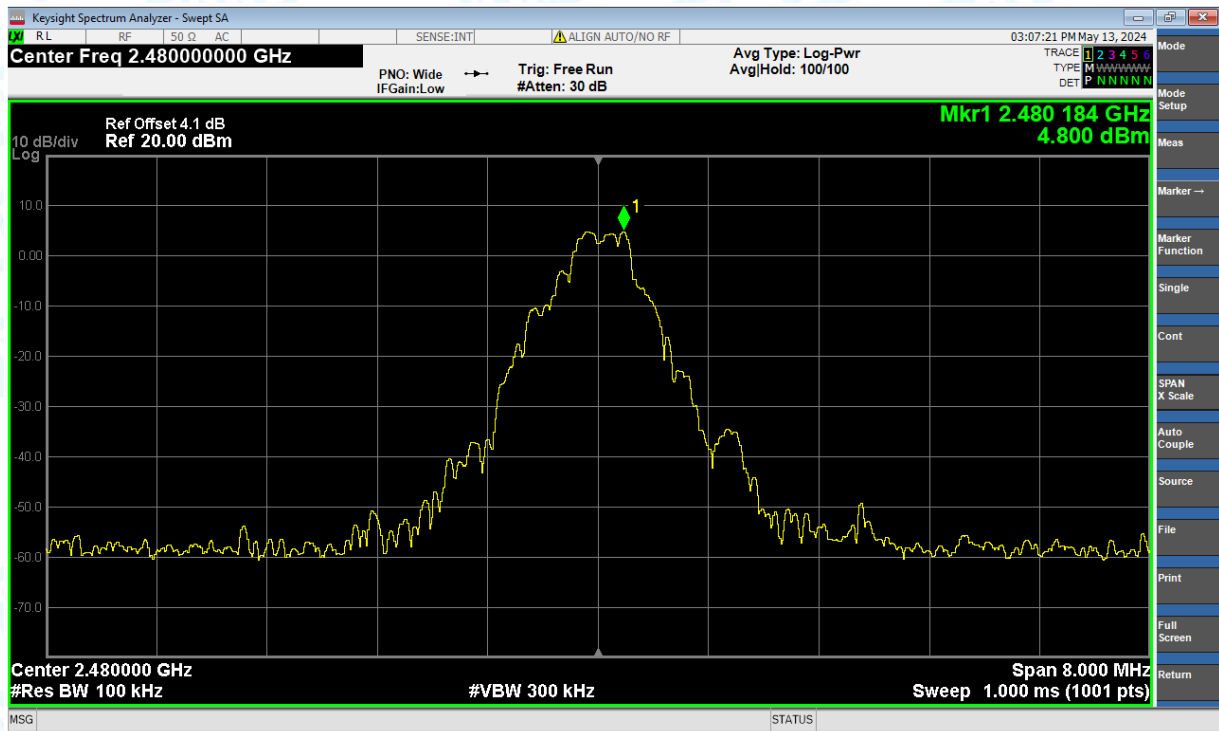
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



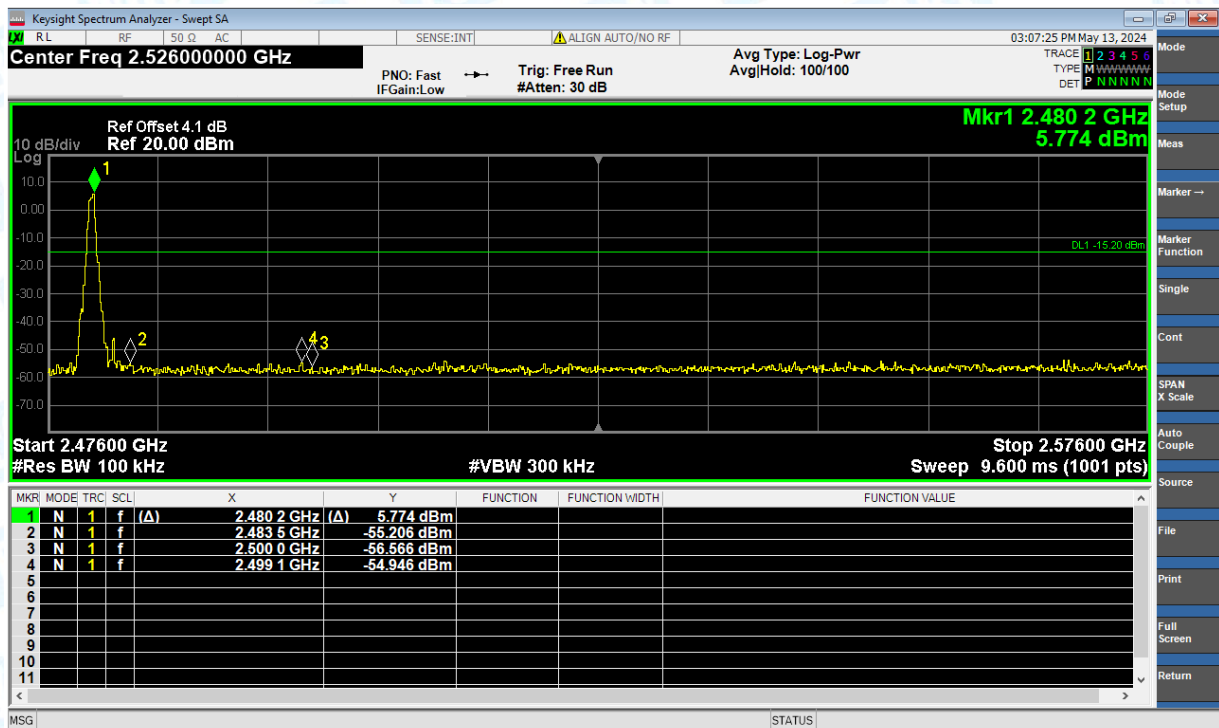
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



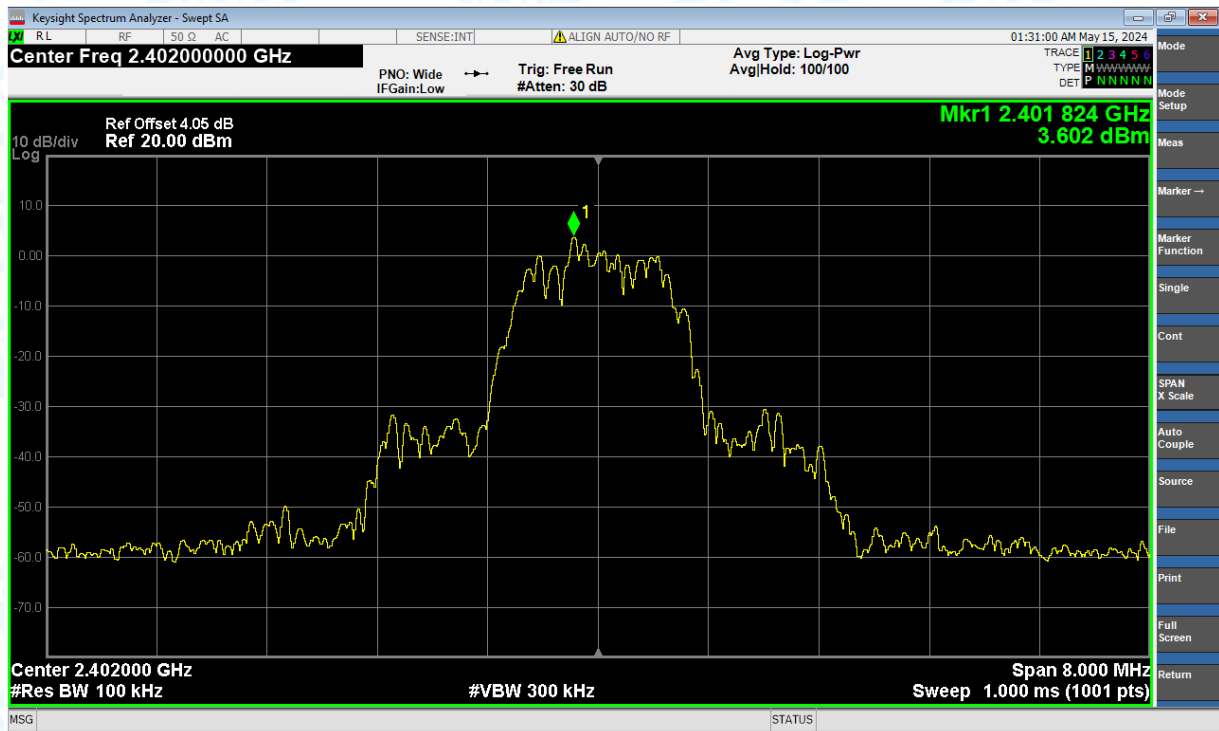
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



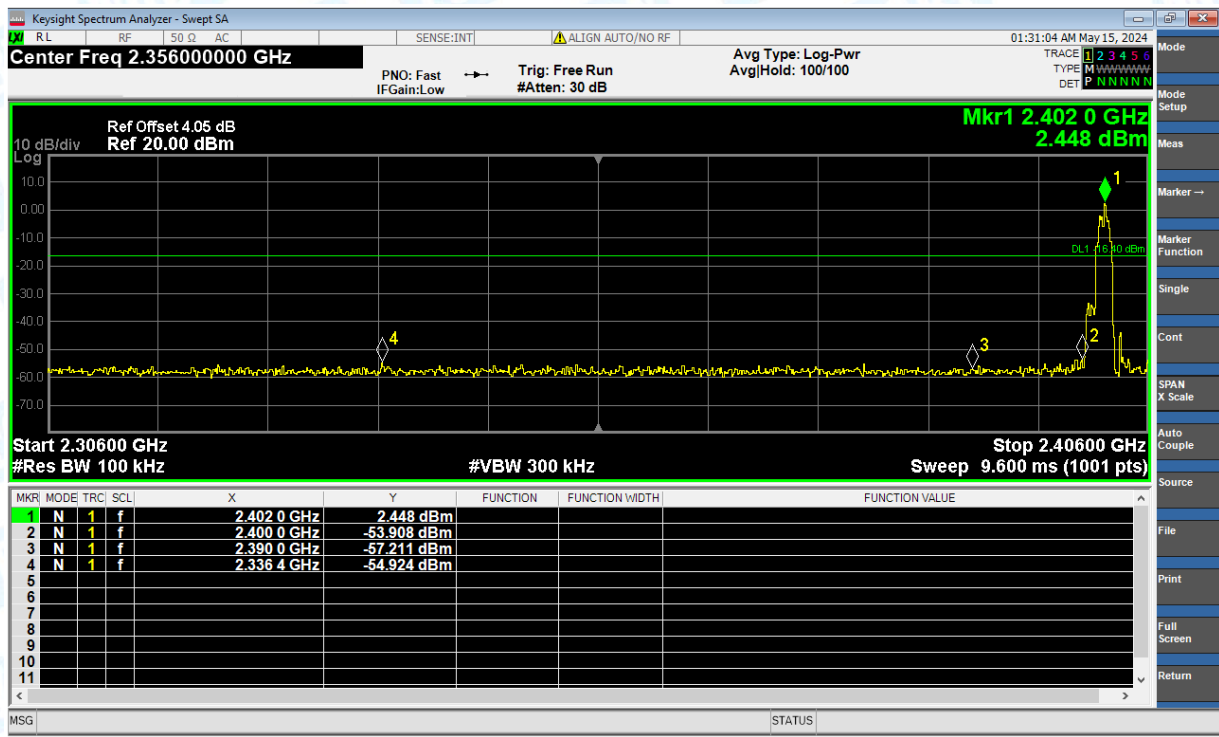
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



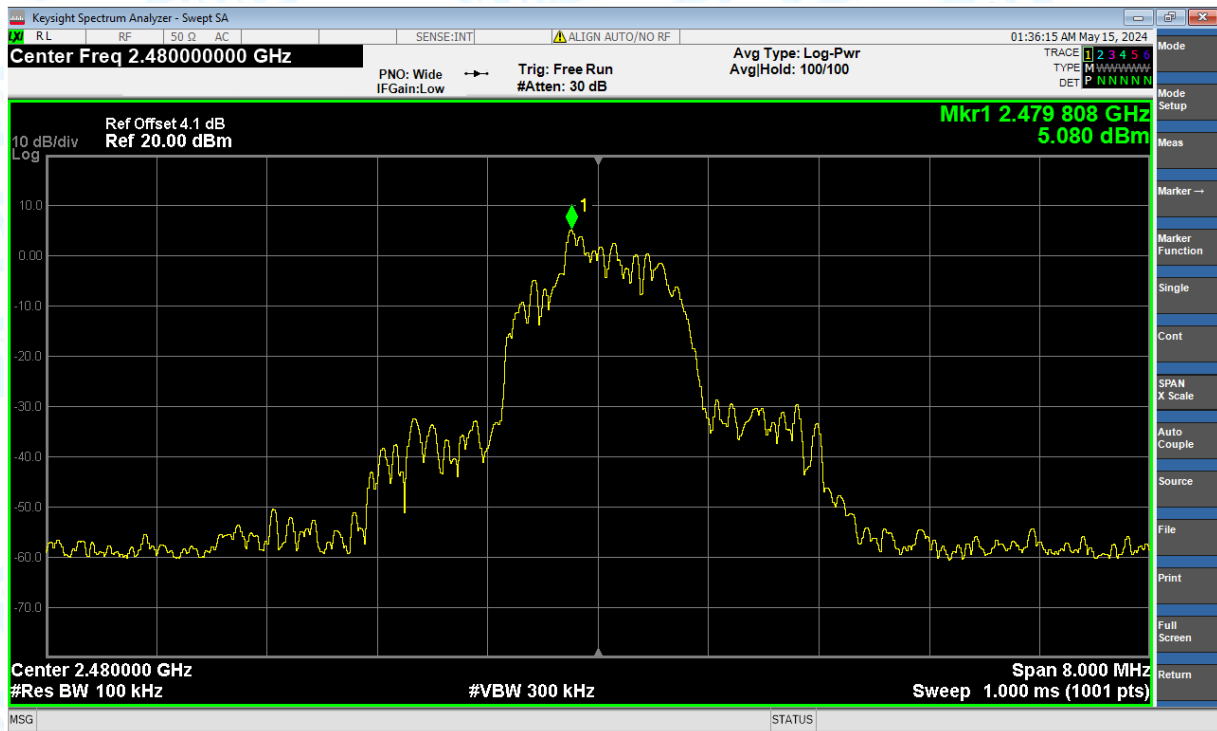
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



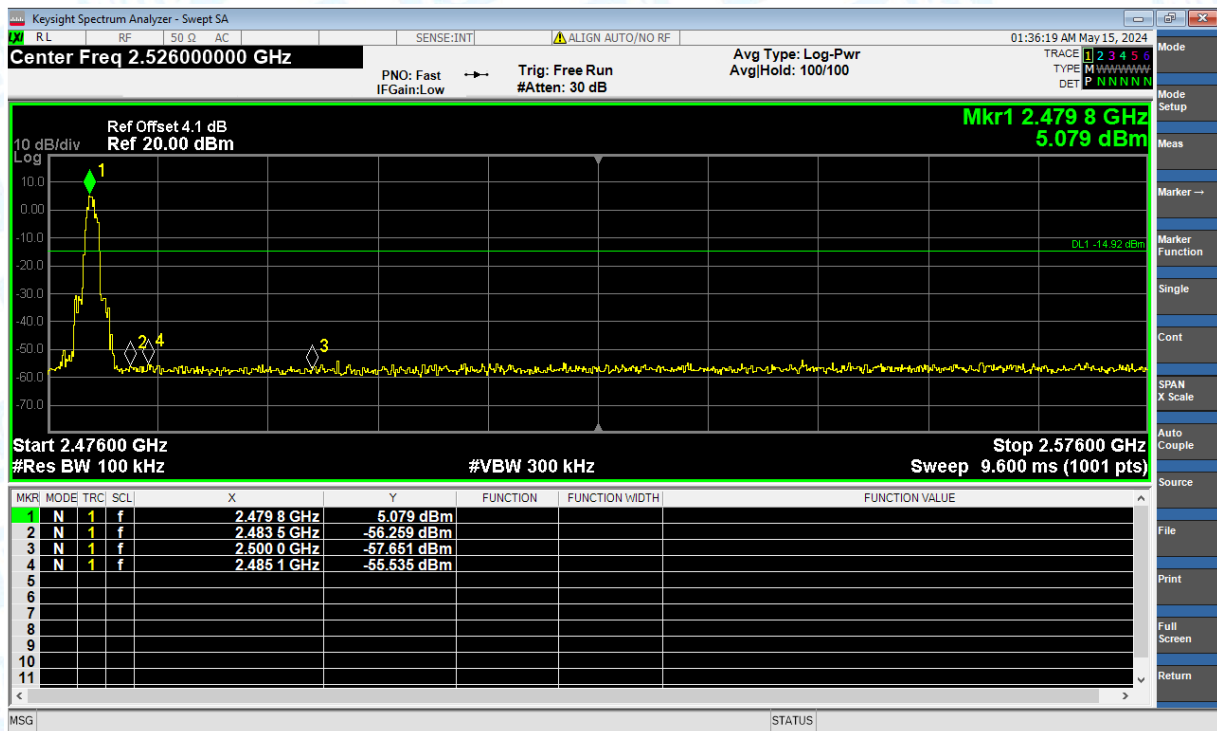
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



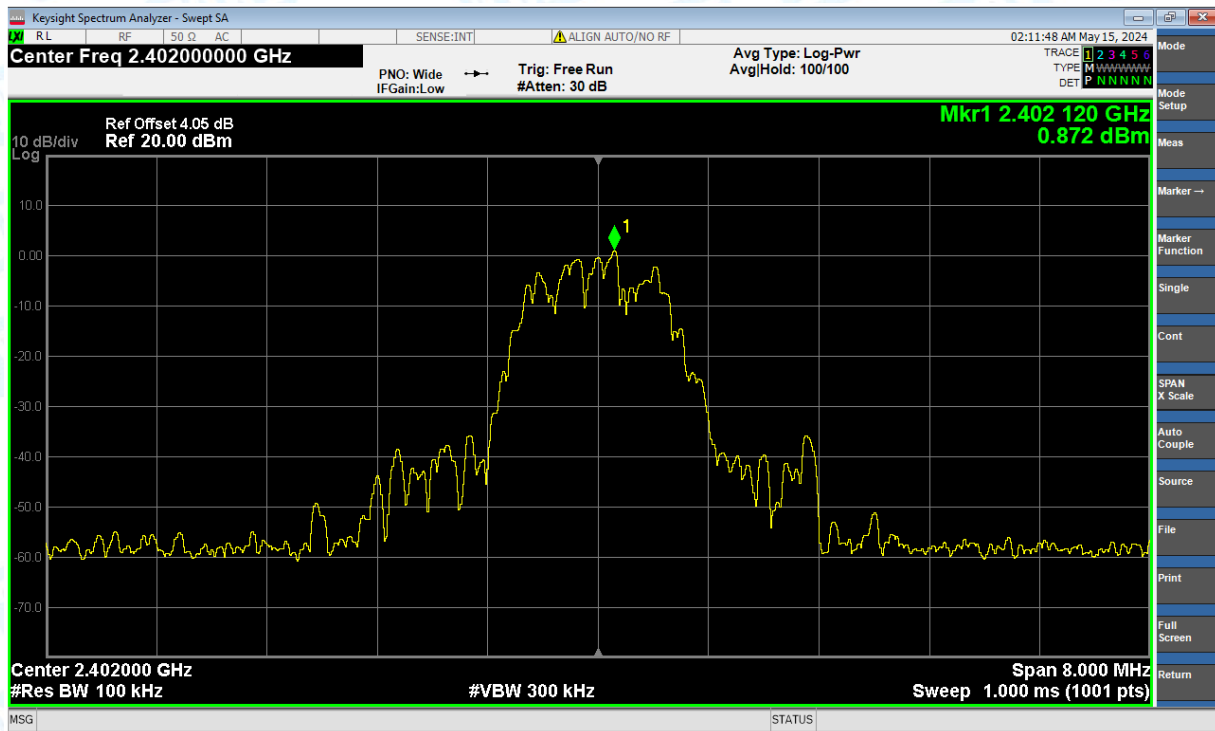
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



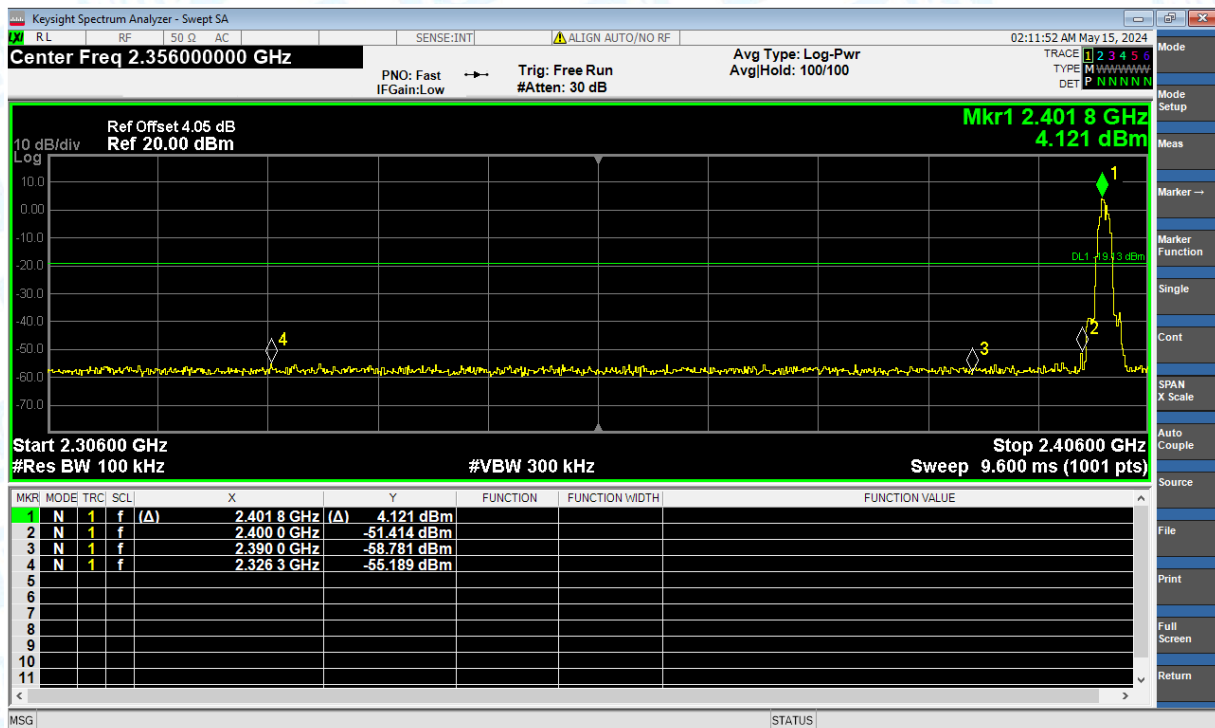
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



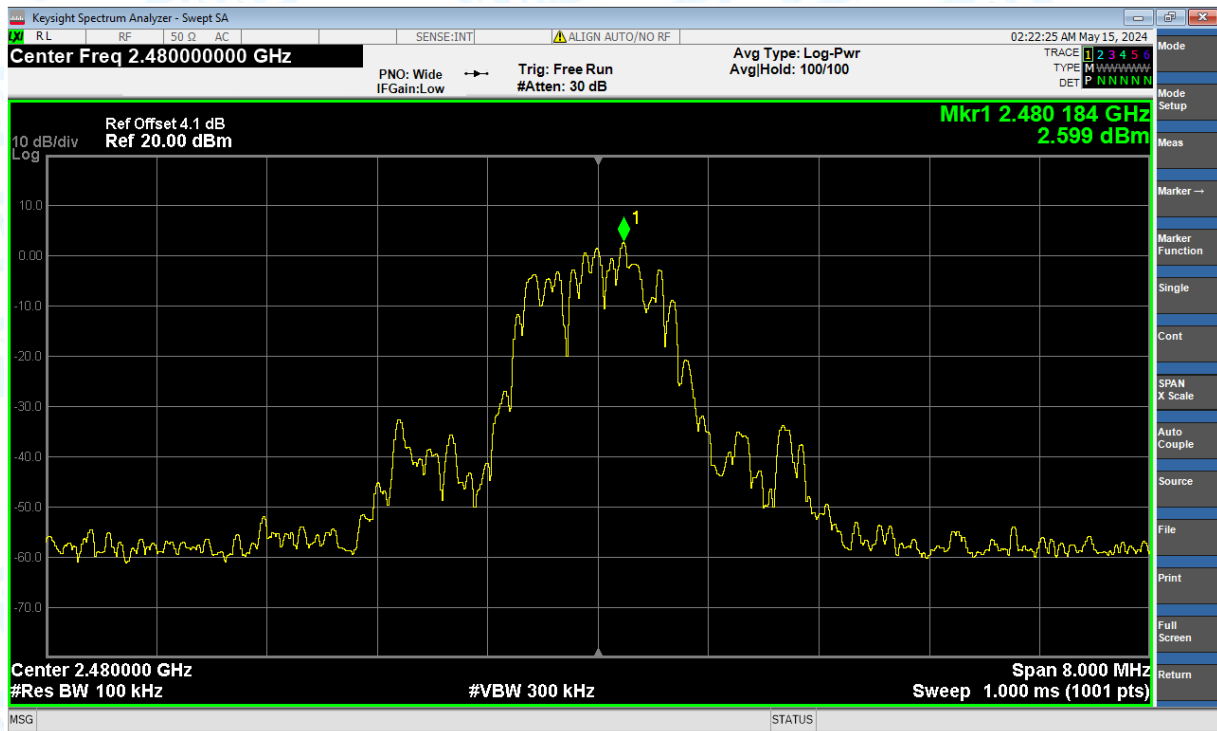
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



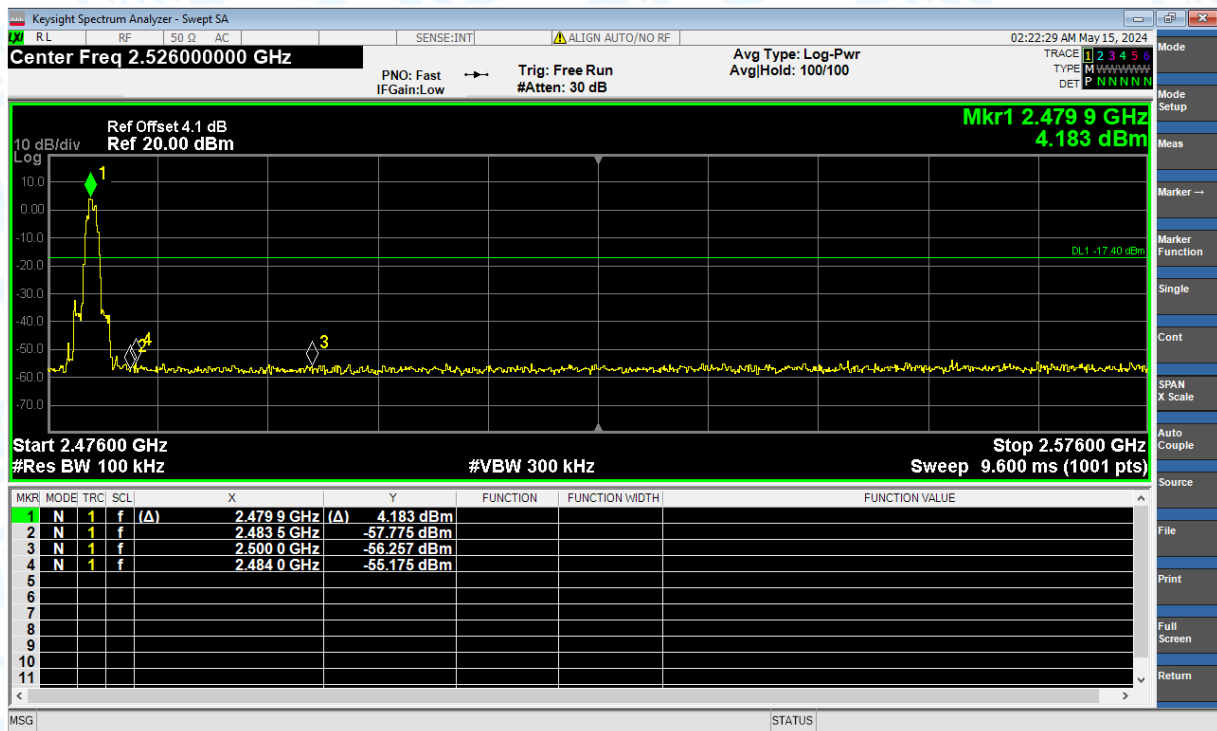
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

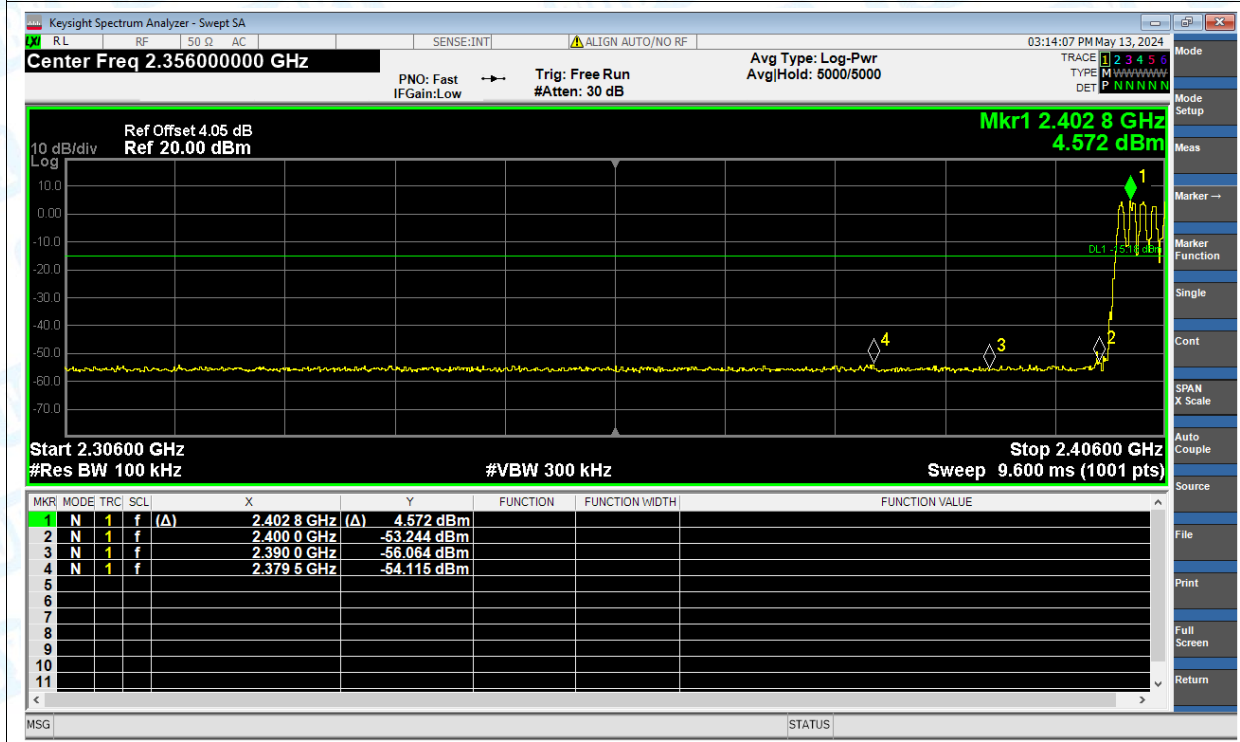
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-58.94	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-56.66	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-59.21	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-57.75	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.38	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-57.77	-20	Pass

Test Graphs

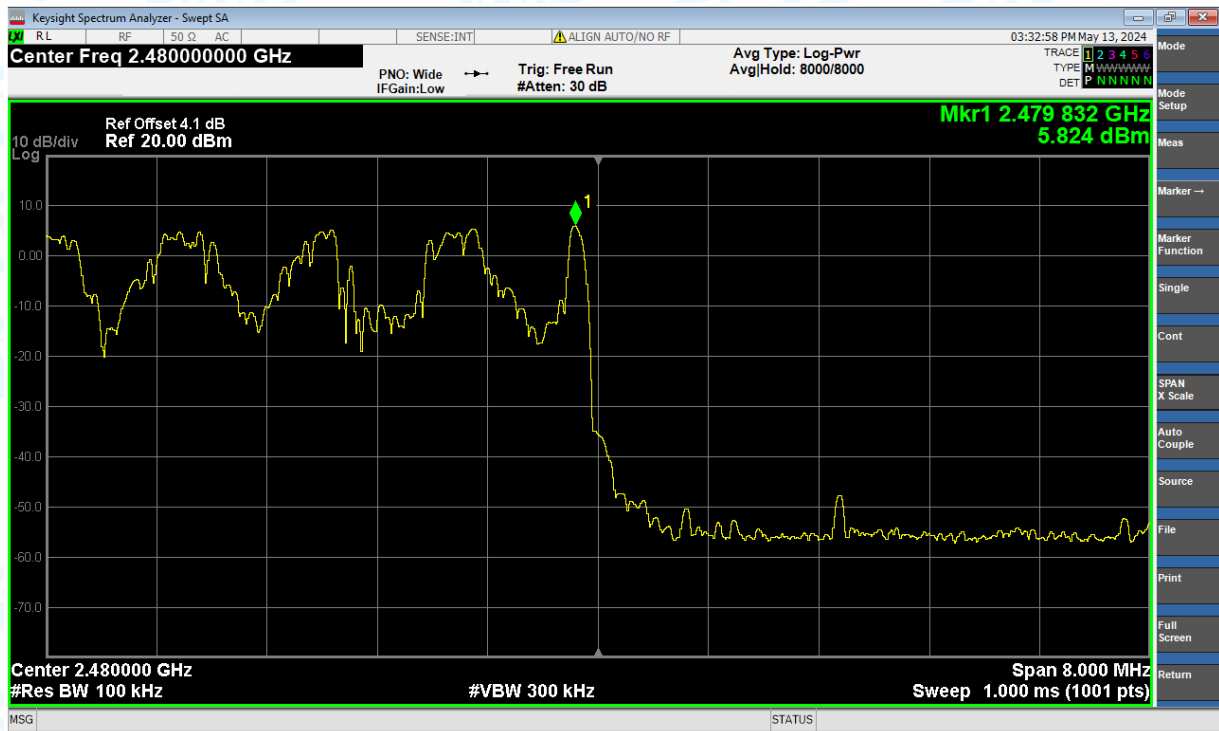
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



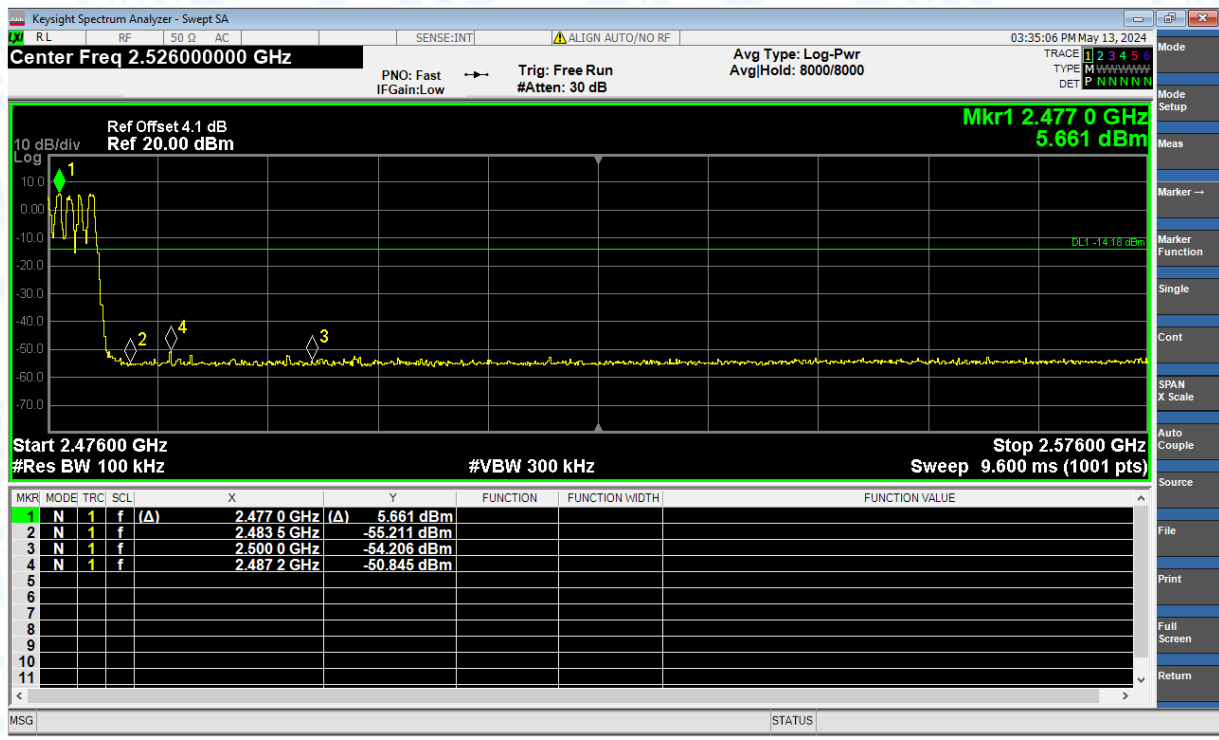
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



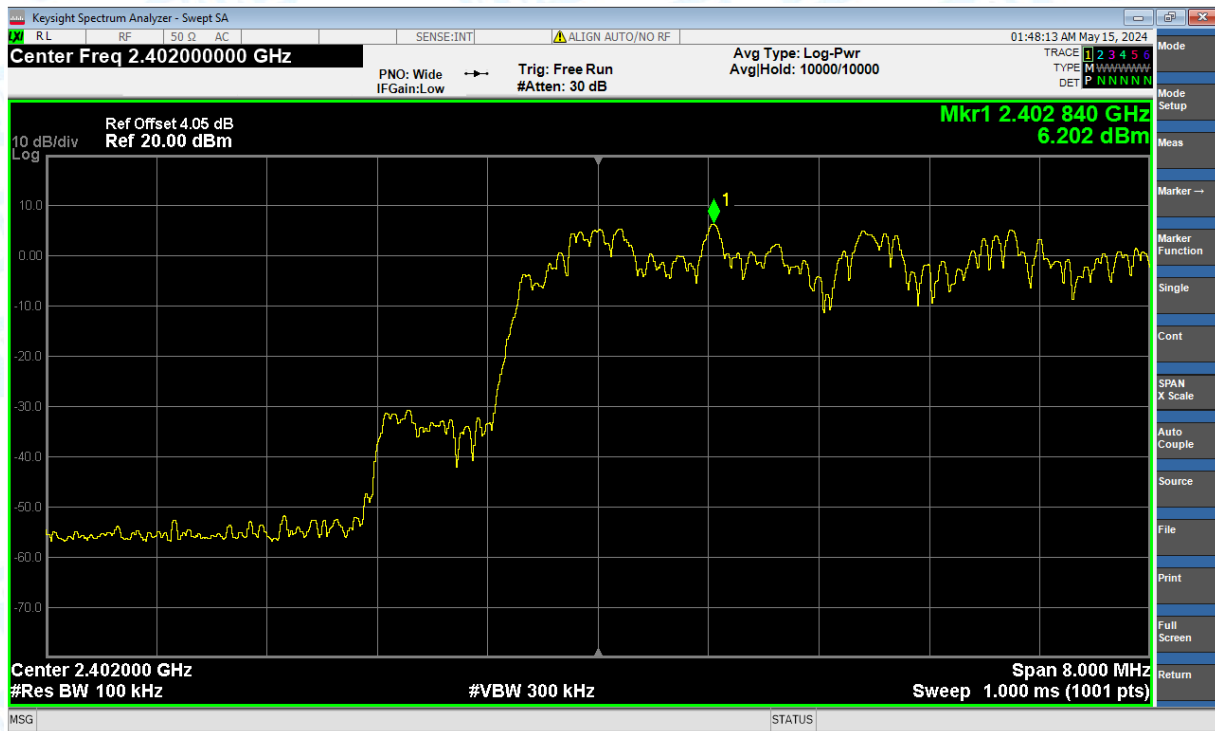
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



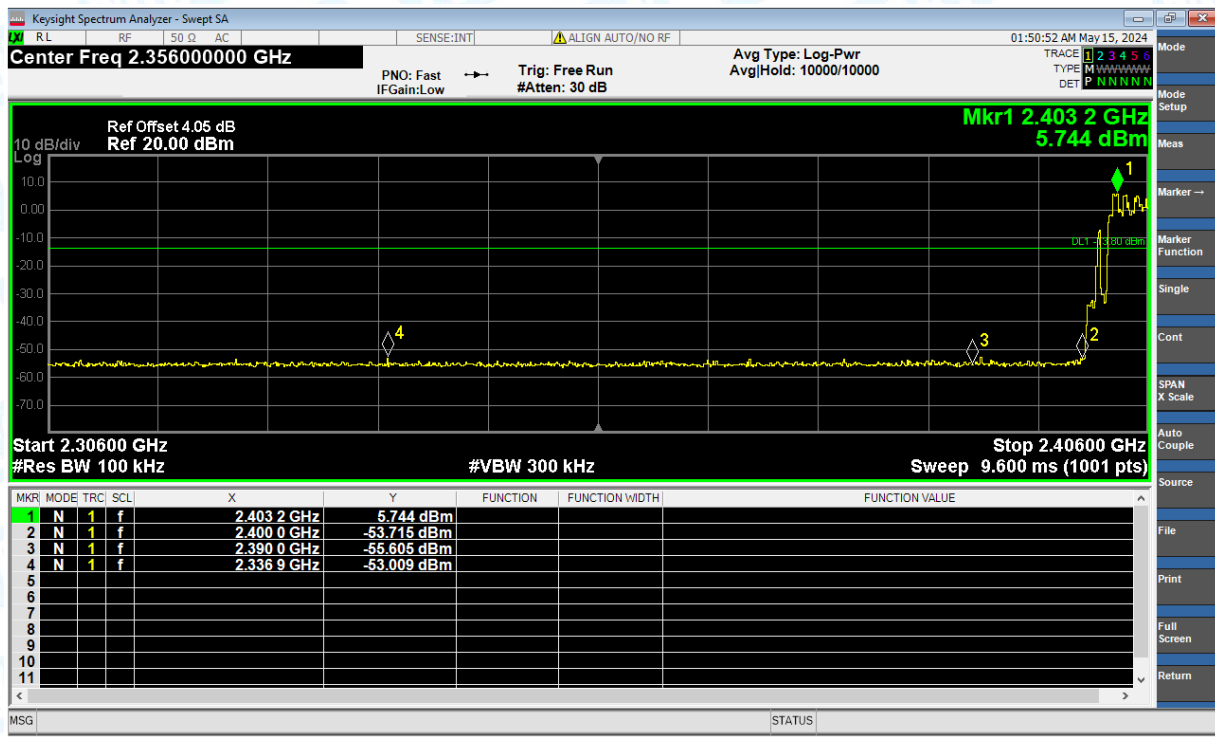
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



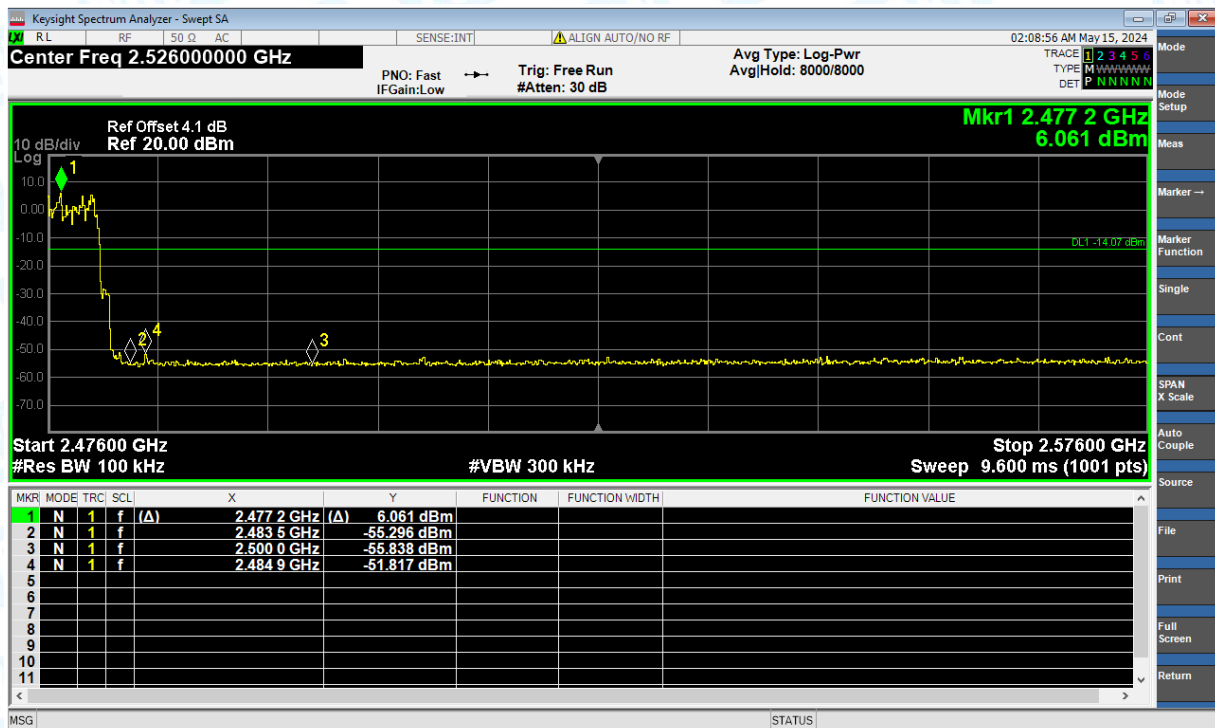
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



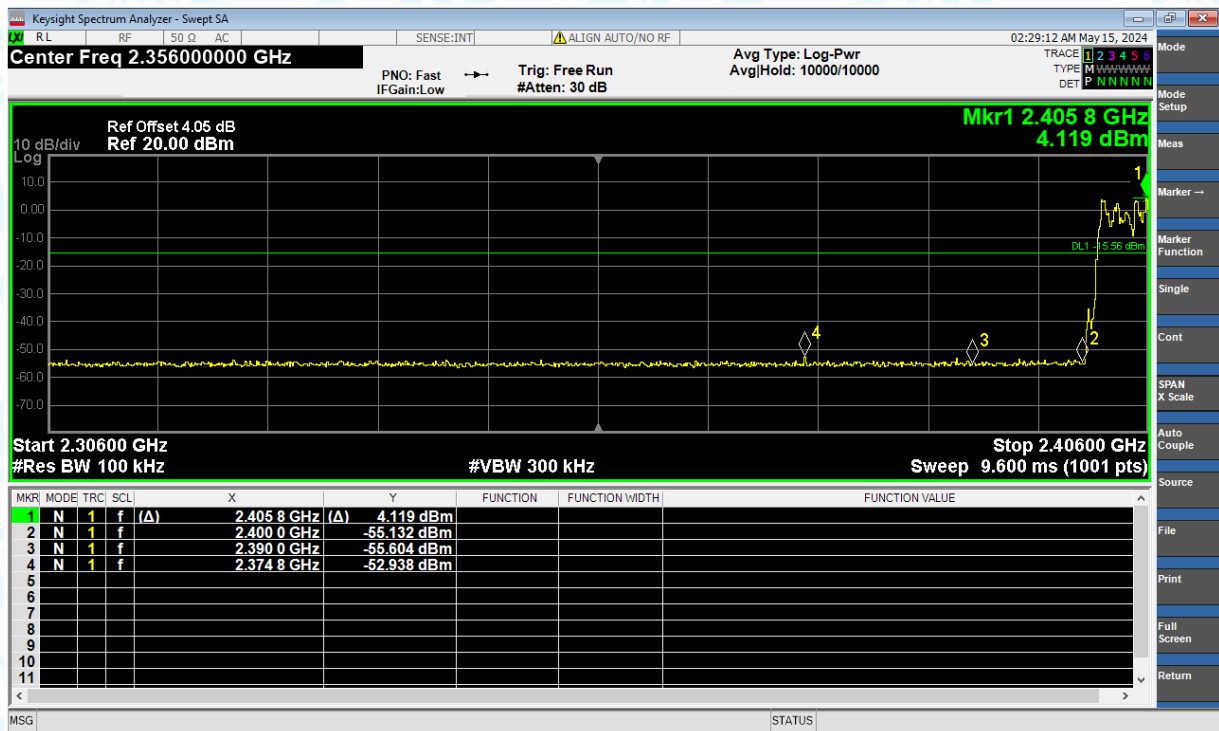
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



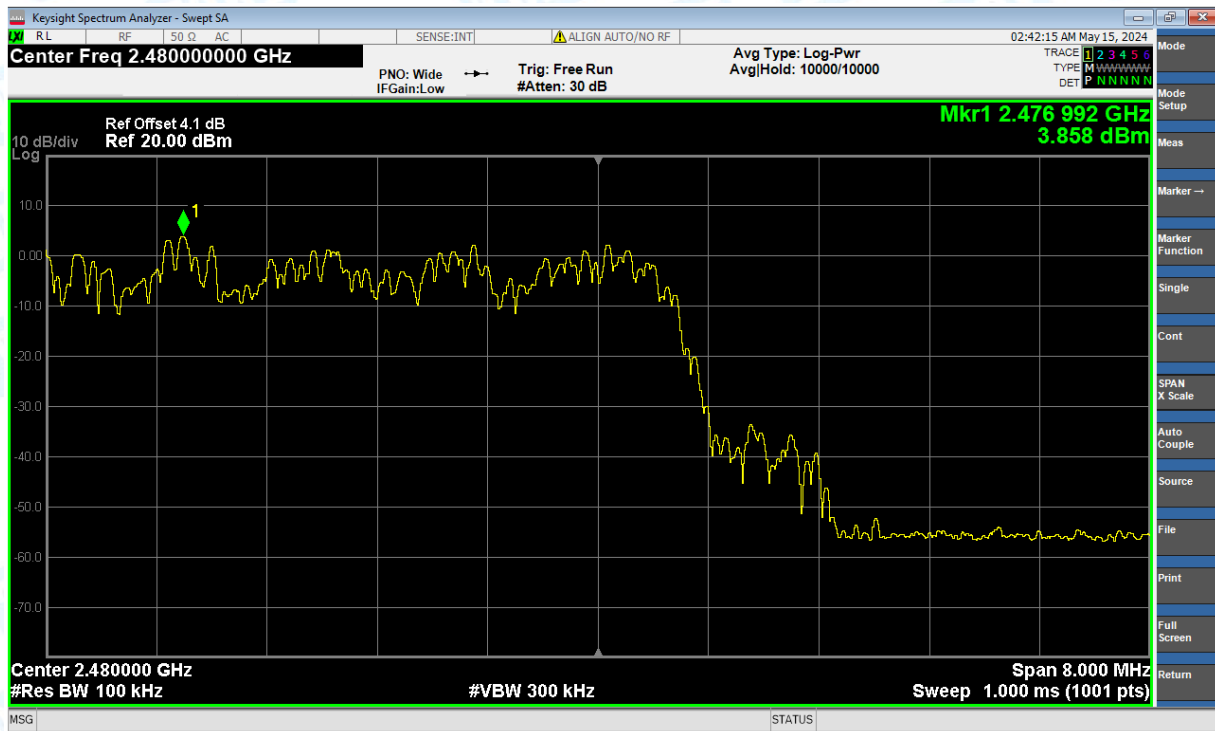
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



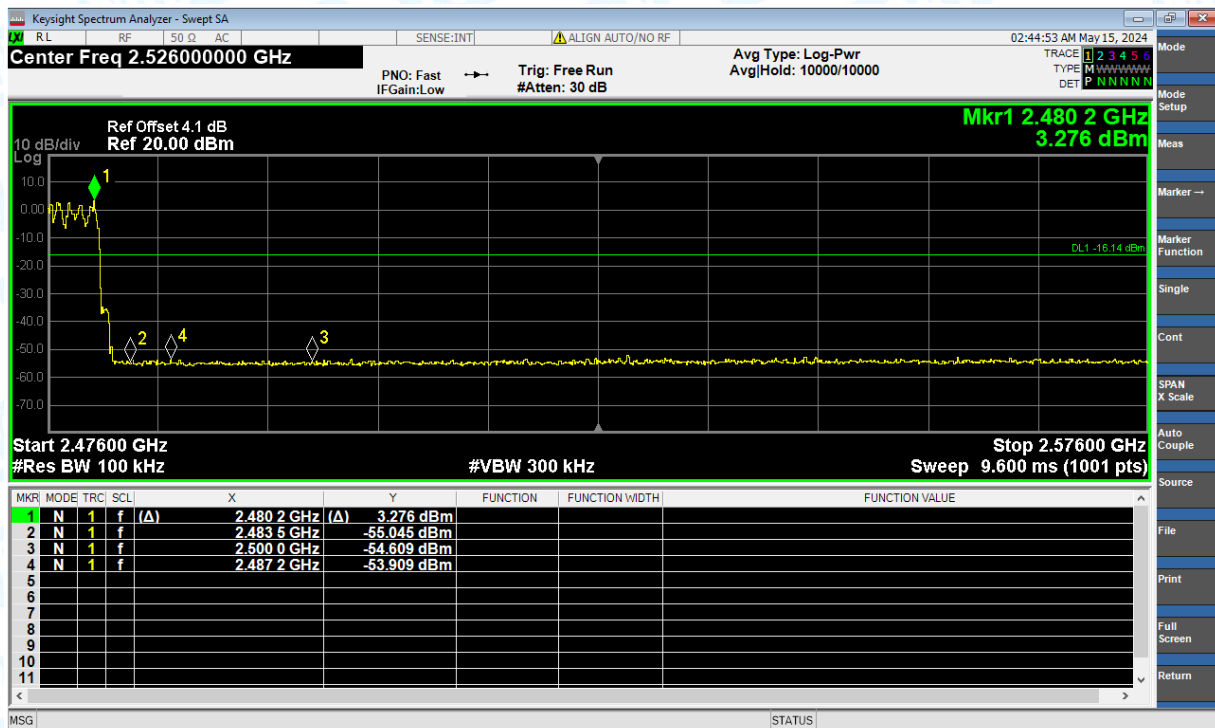
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

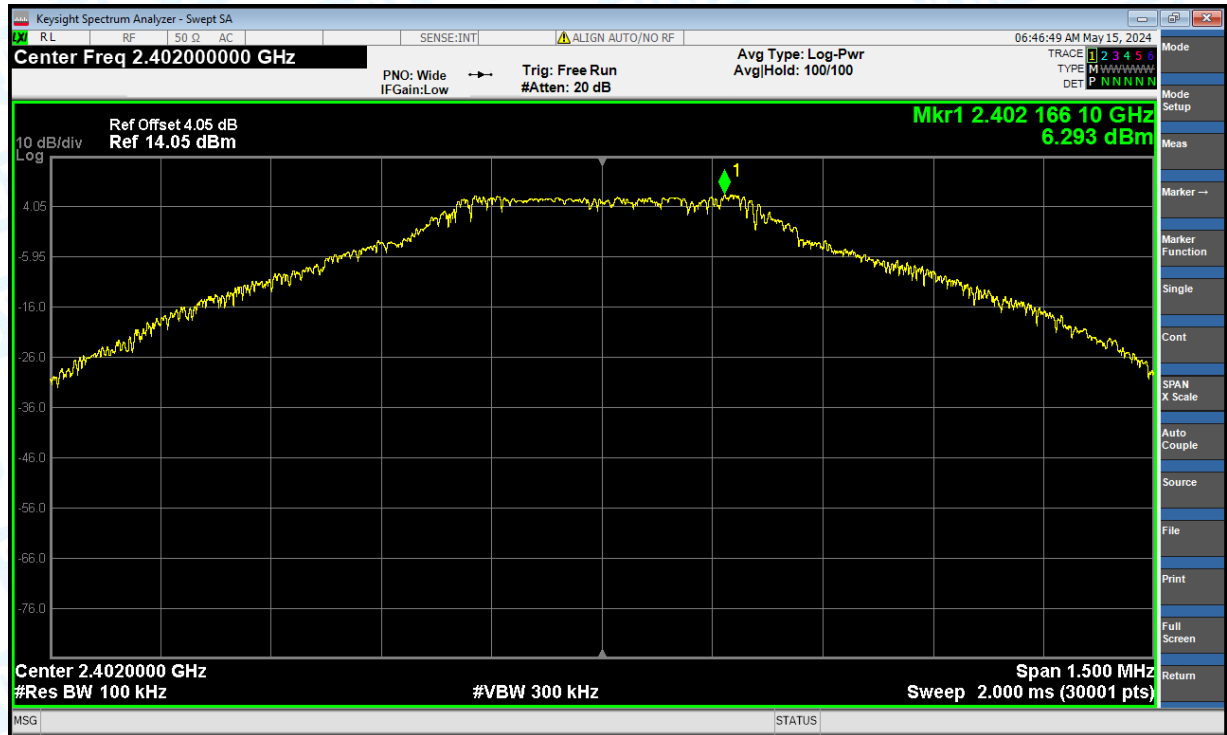


7. Conducted RF Spurious Emission

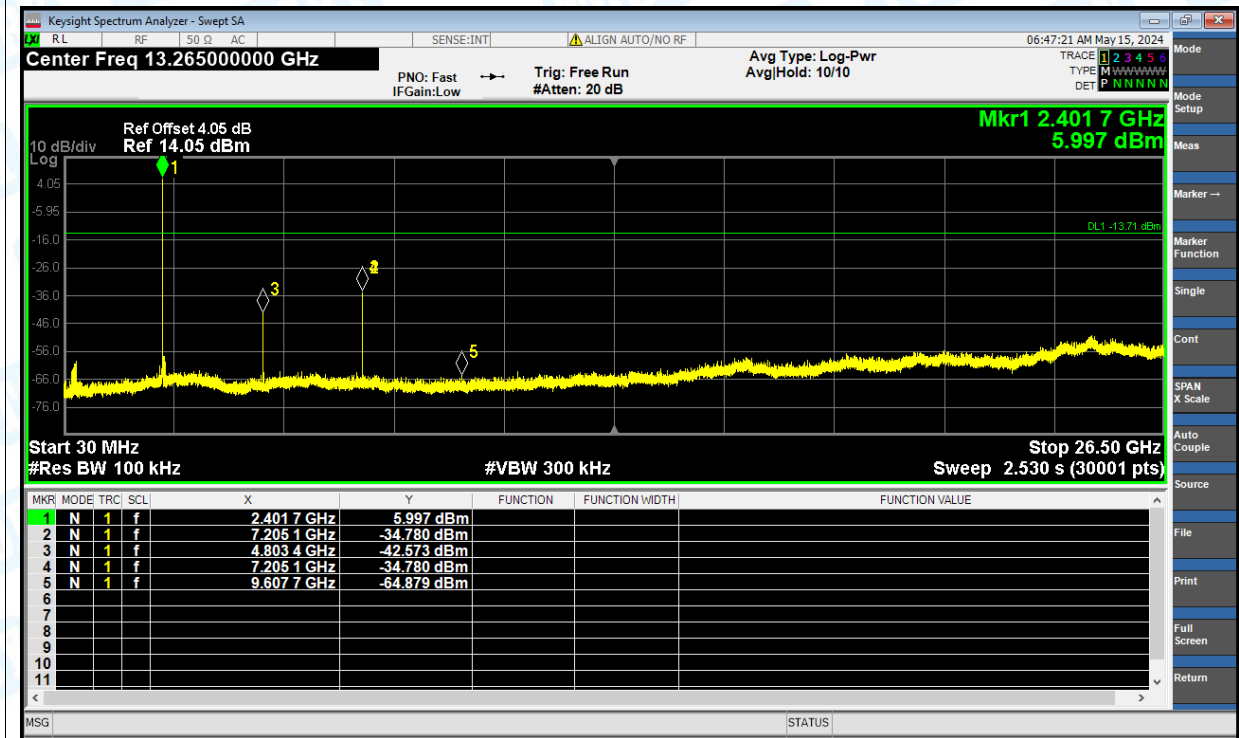
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-41.07	-20	Pass
NVNT	1-DH1	2441	Ant1	-42.19	-20	Pass
NVNT	1-DH1	2480	Ant1	-42.28	-20	Pass
NVNT	2-DH1	2402	Ant1	-43.45	-20	Pass
NVNT	2-DH1	2441	Ant1	-39.76	-20	Pass
NVNT	2-DH1	2480	Ant1	-45.98	-20	Pass
NVNT	3-DH1	2402	Ant1	-46.43	-20	Pass
NVNT	3-DH1	2441	Ant1	-44.72	-20	Pass
NVNT	3-DH1	2480	Ant1	-50.26	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



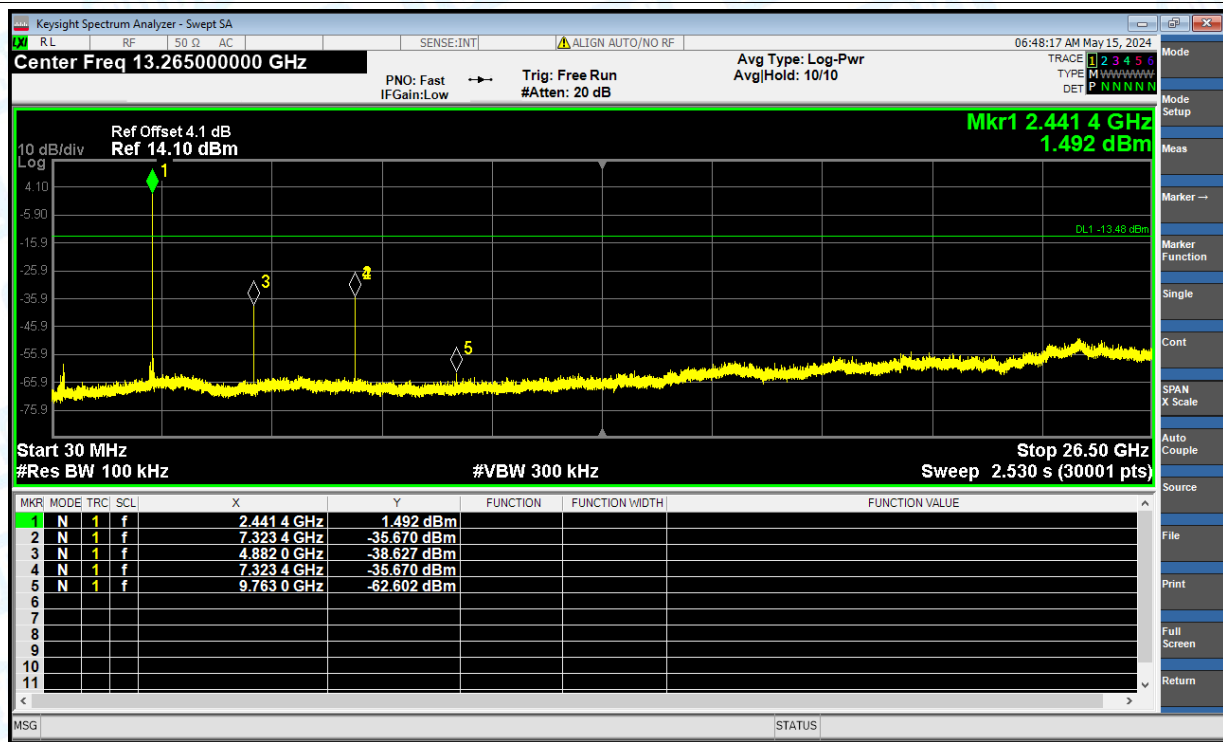
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



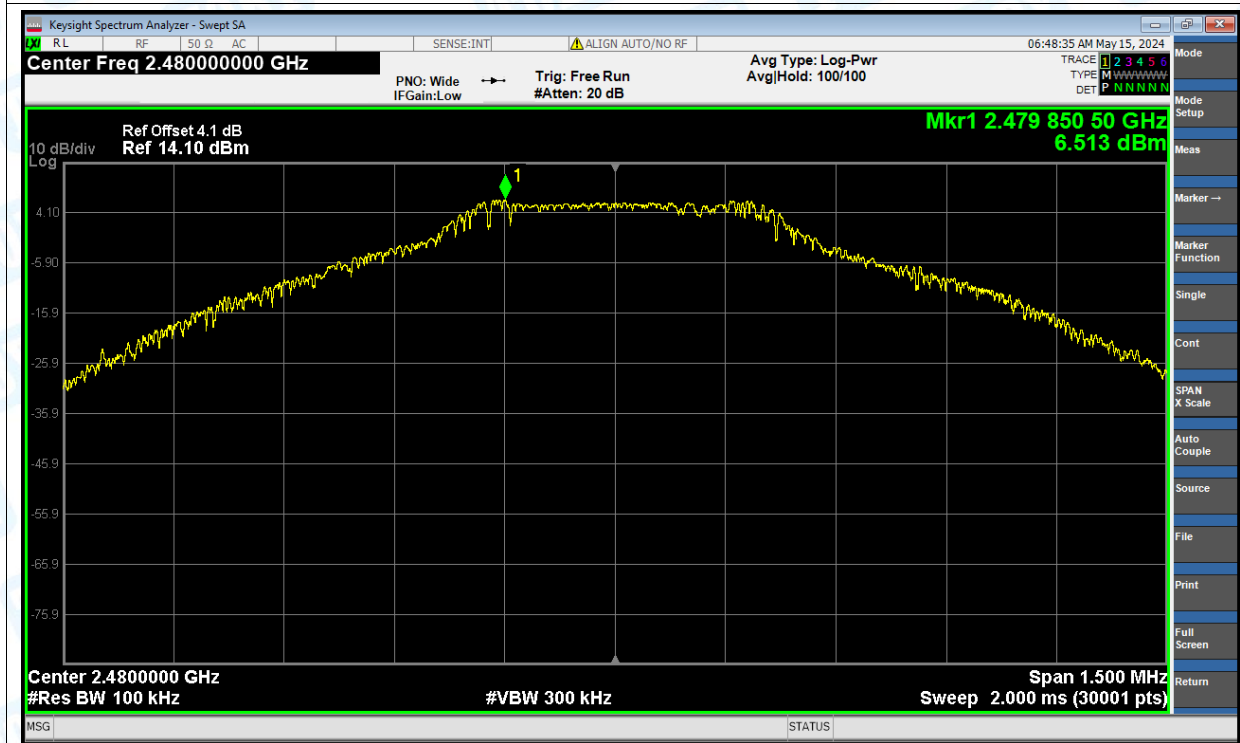
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



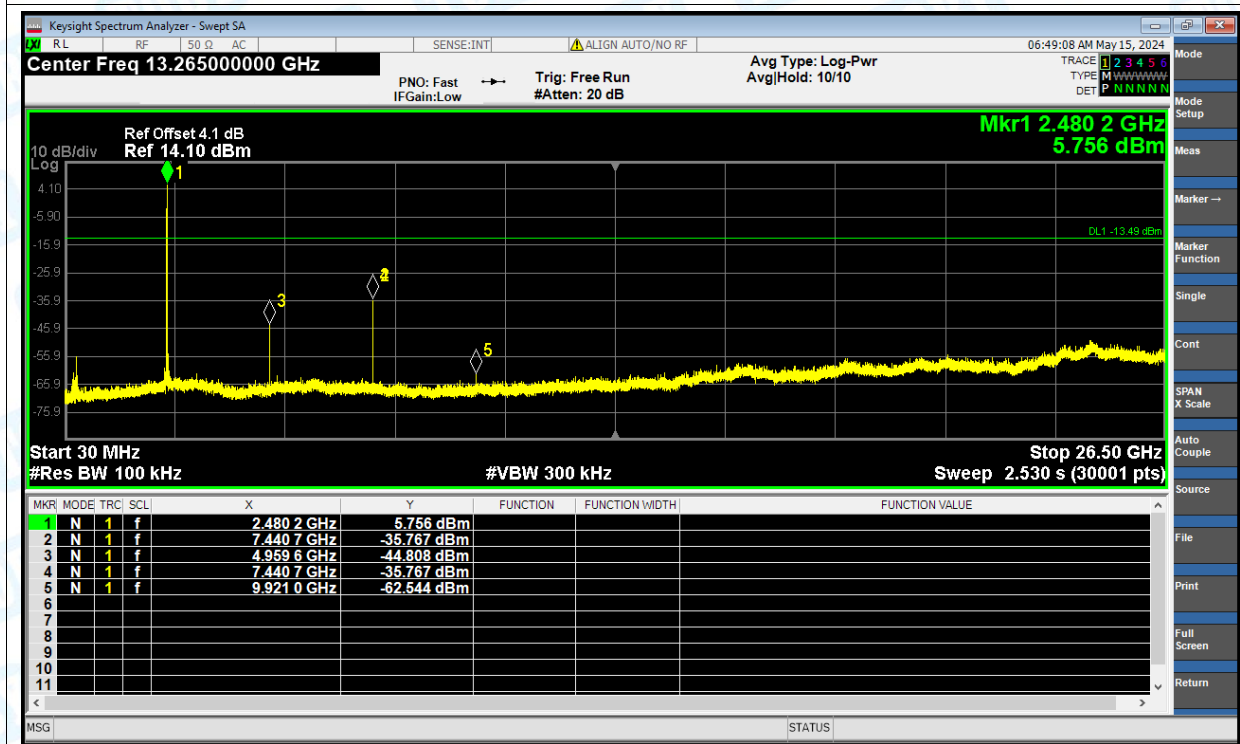
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



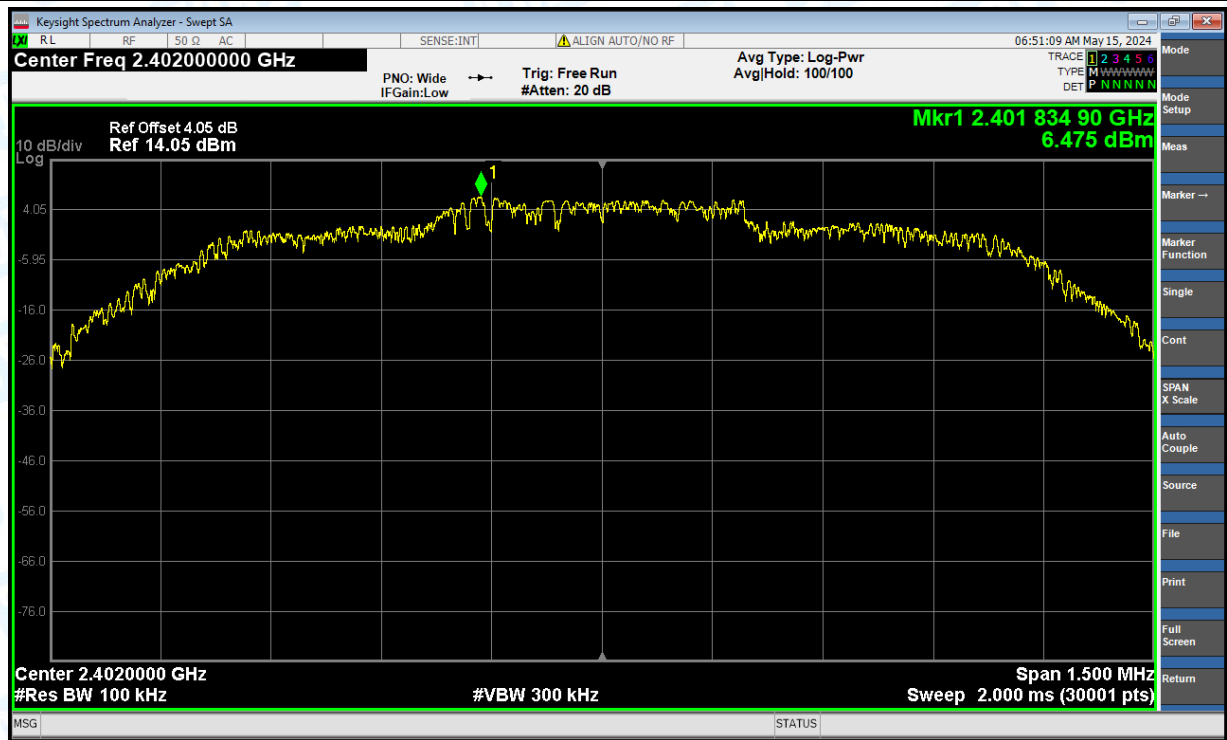
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



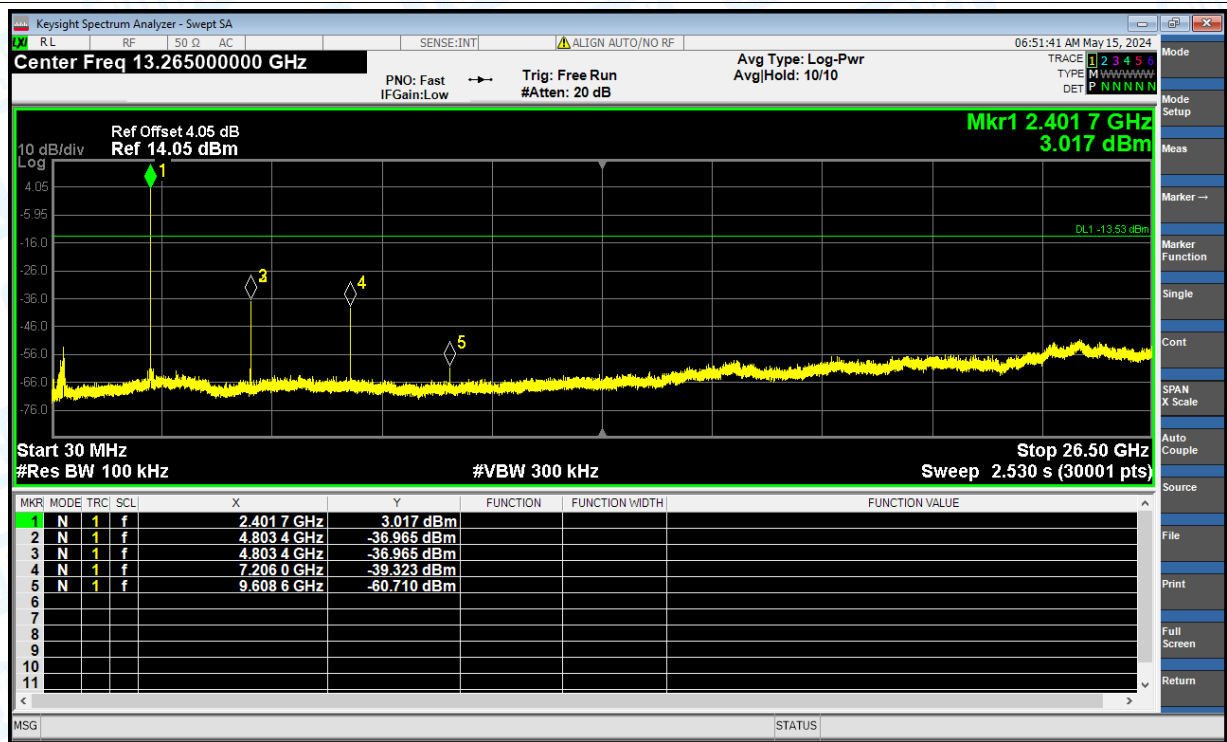
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



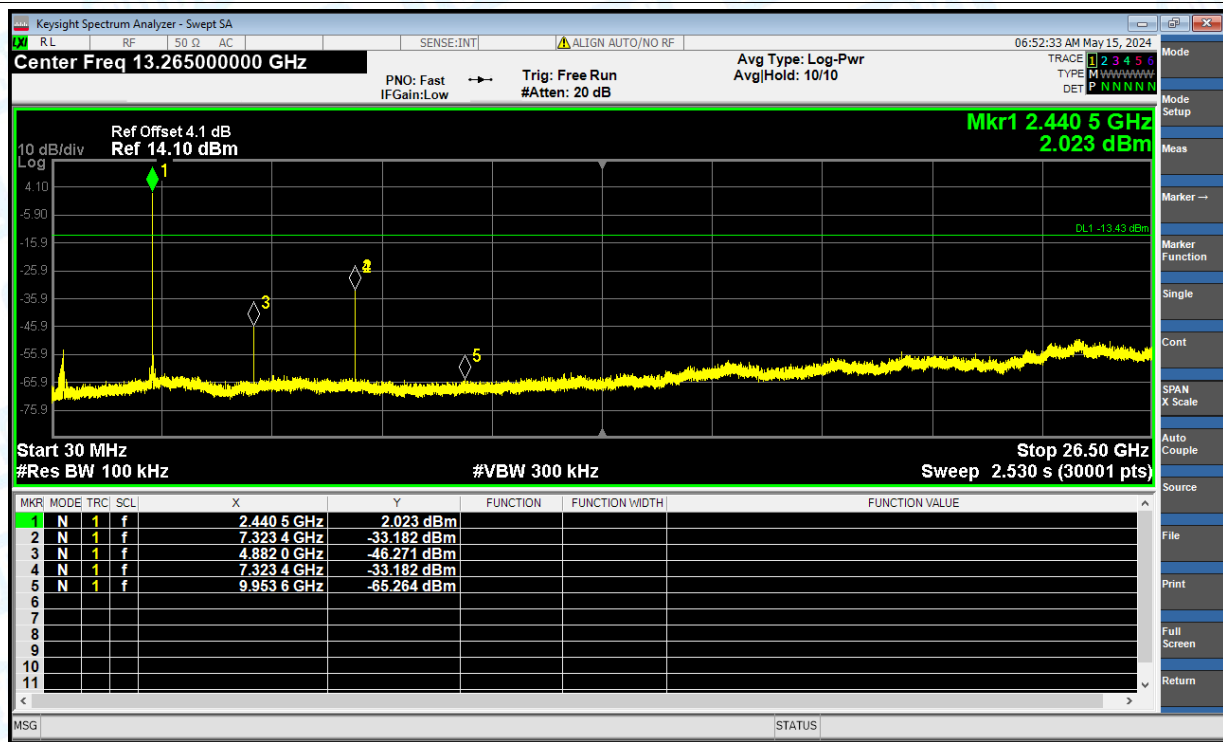
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



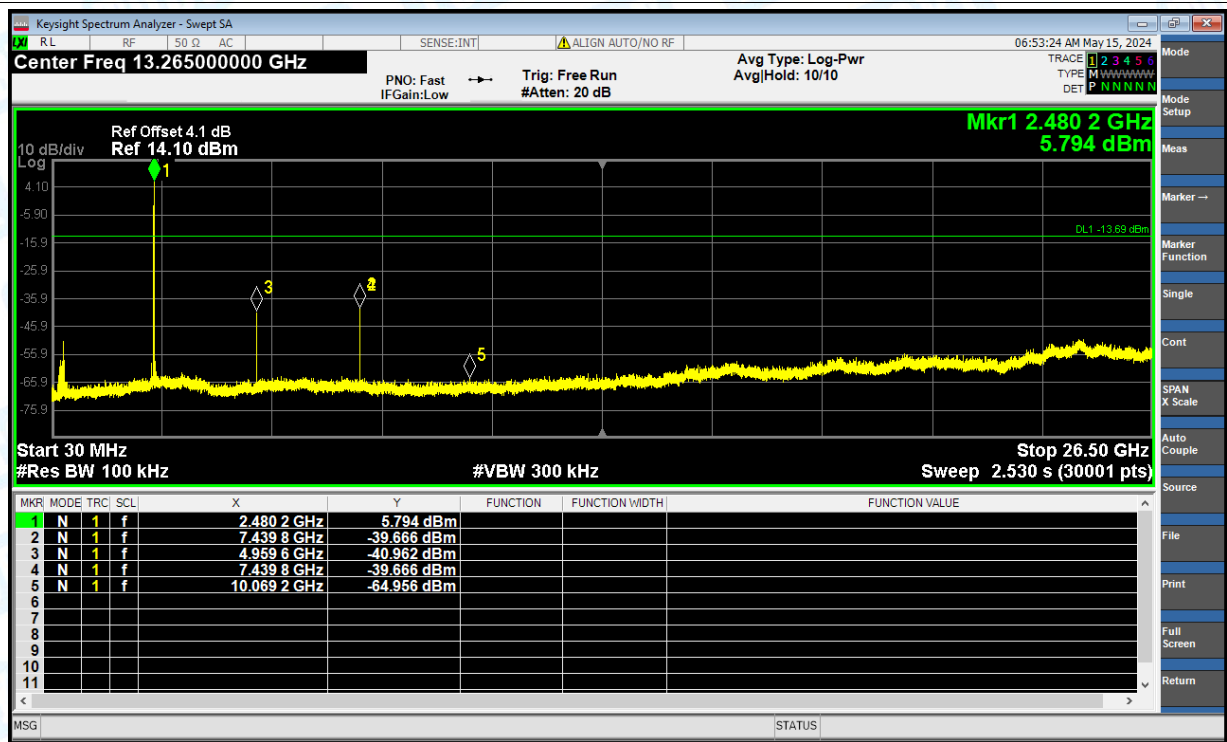
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



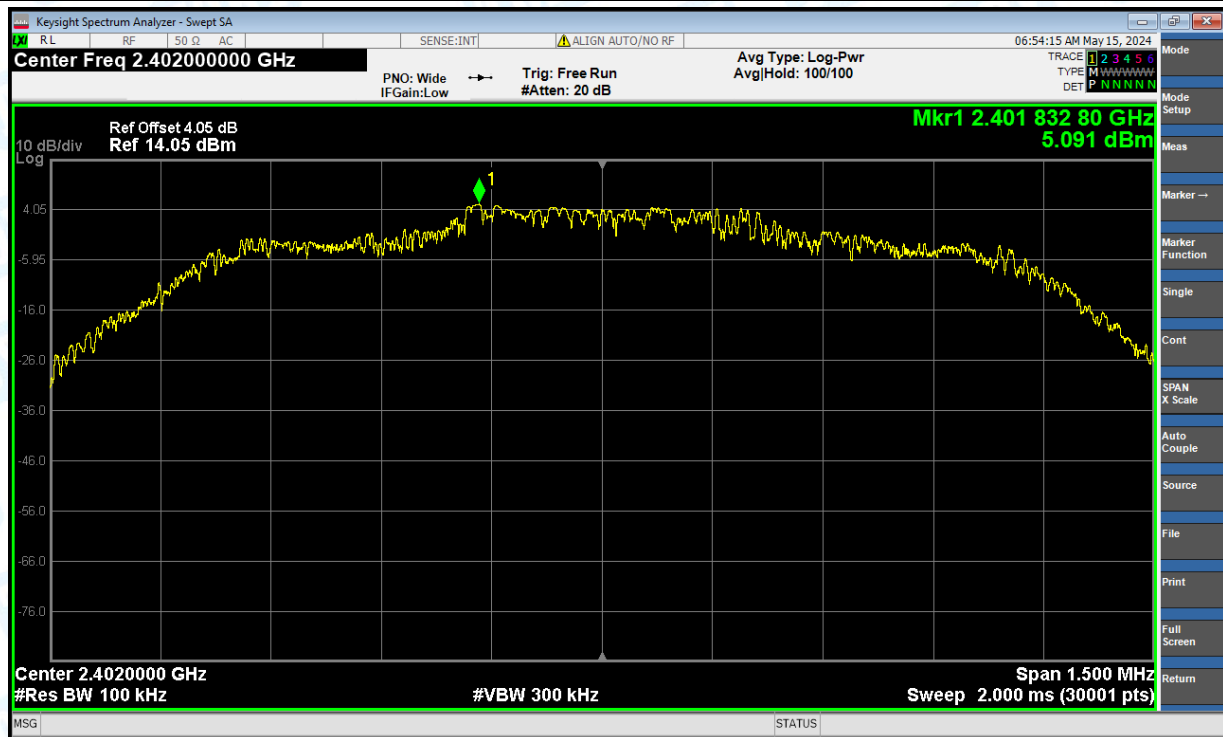
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



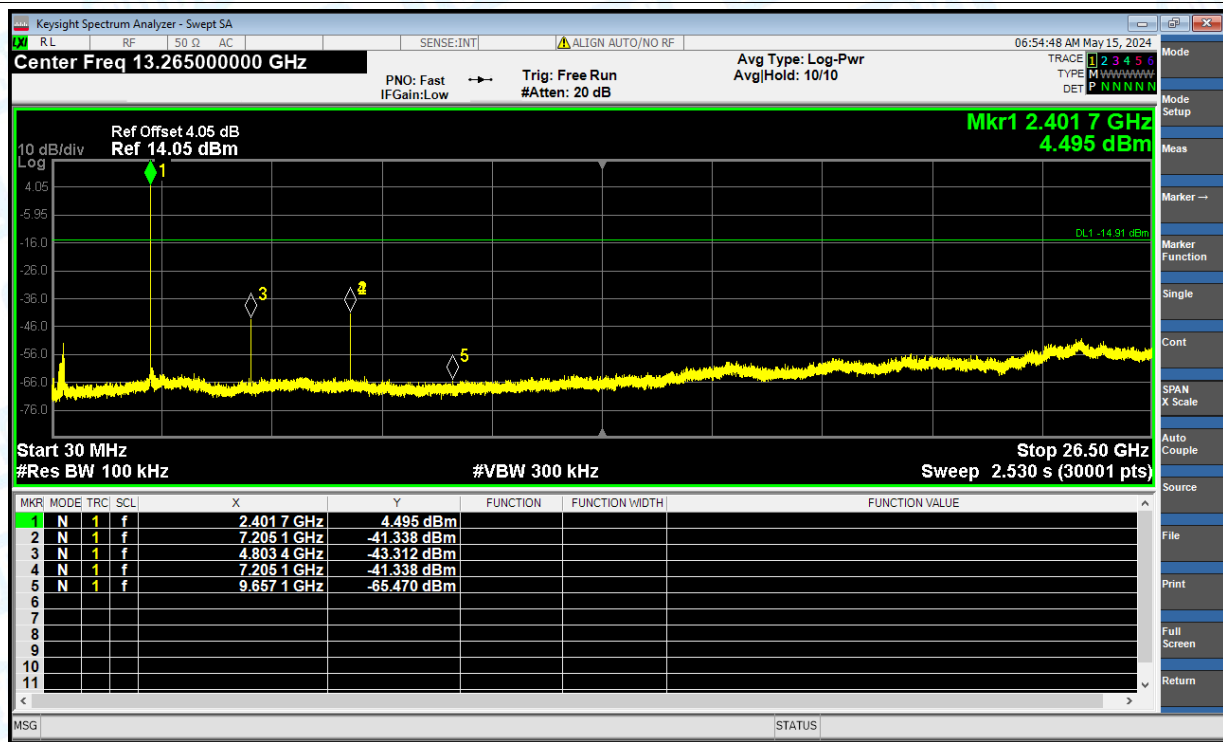
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



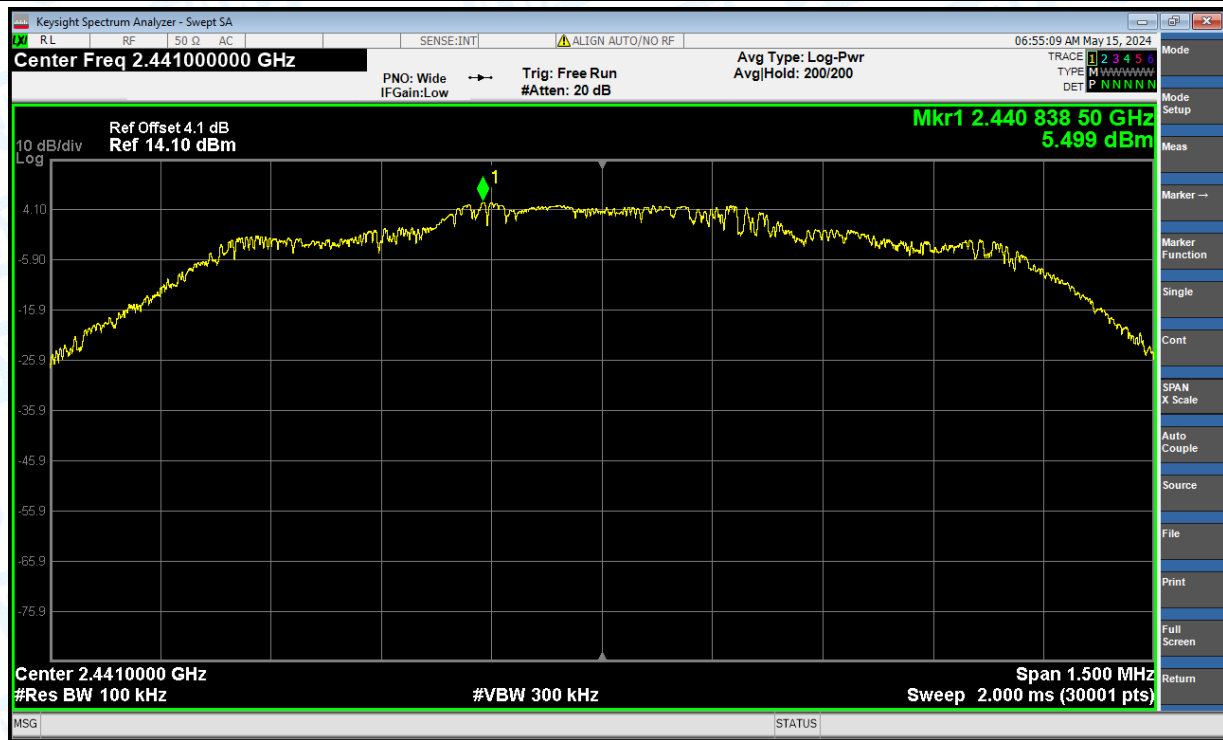
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



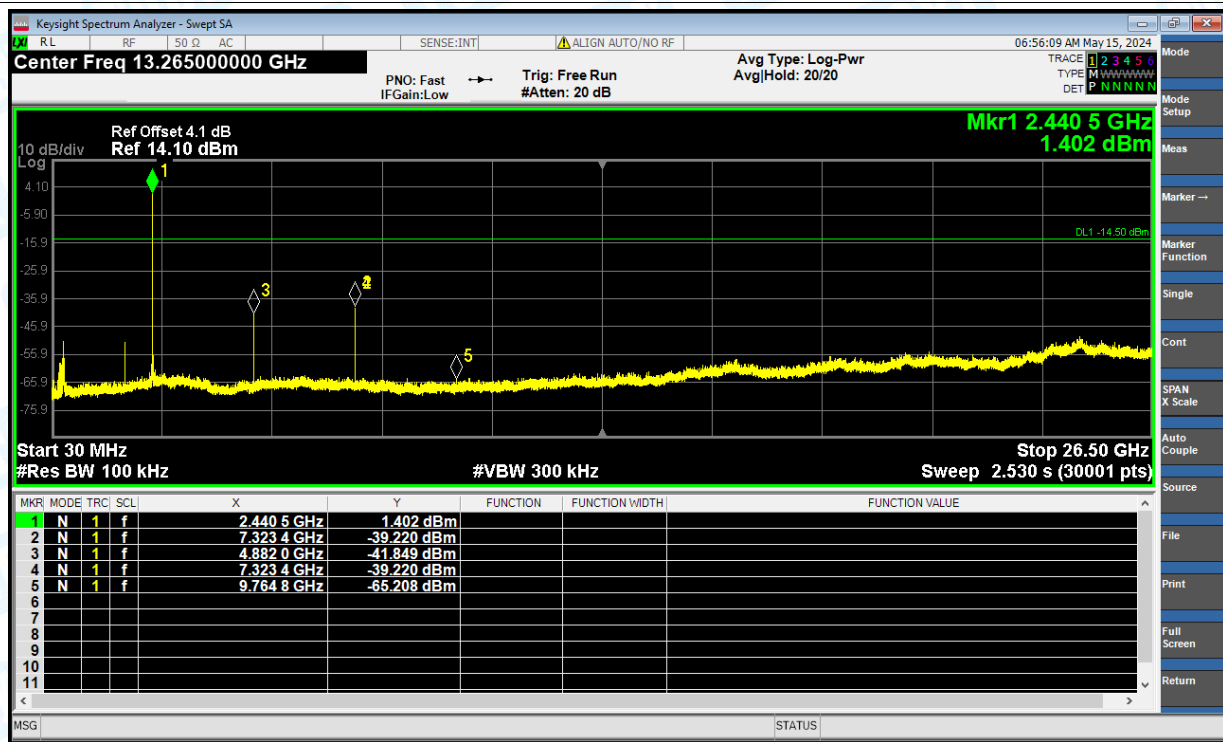
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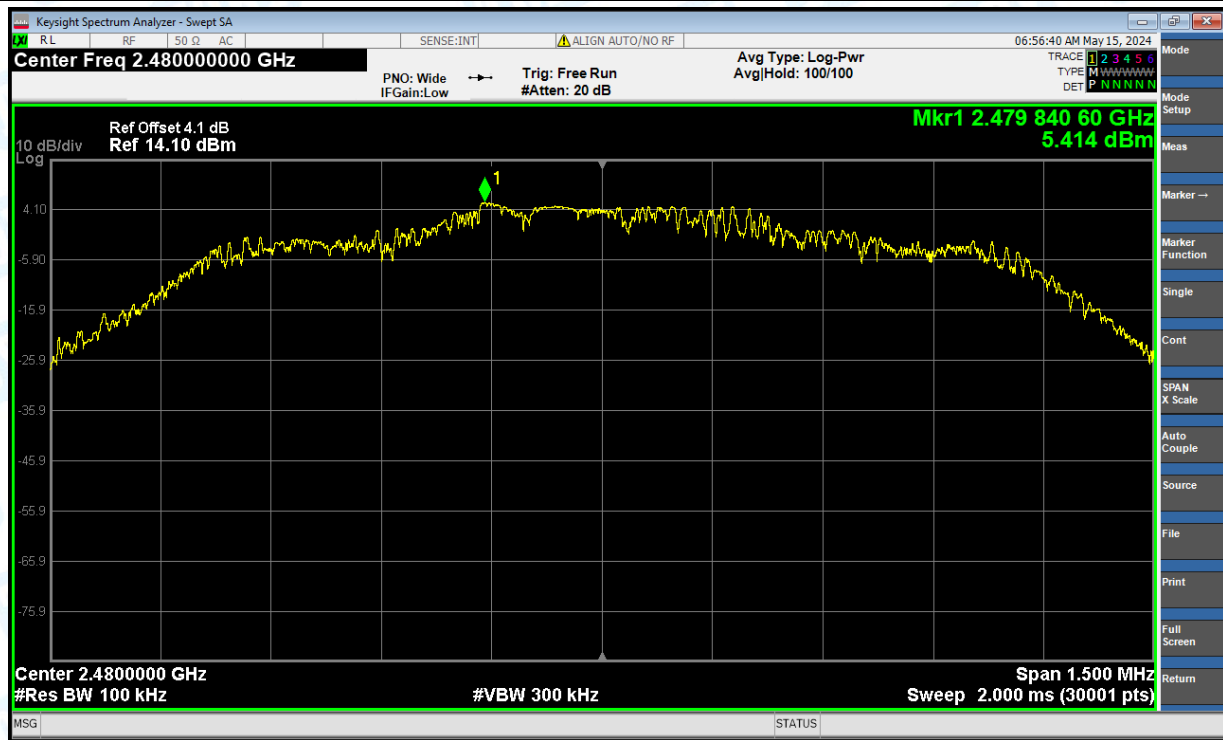
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



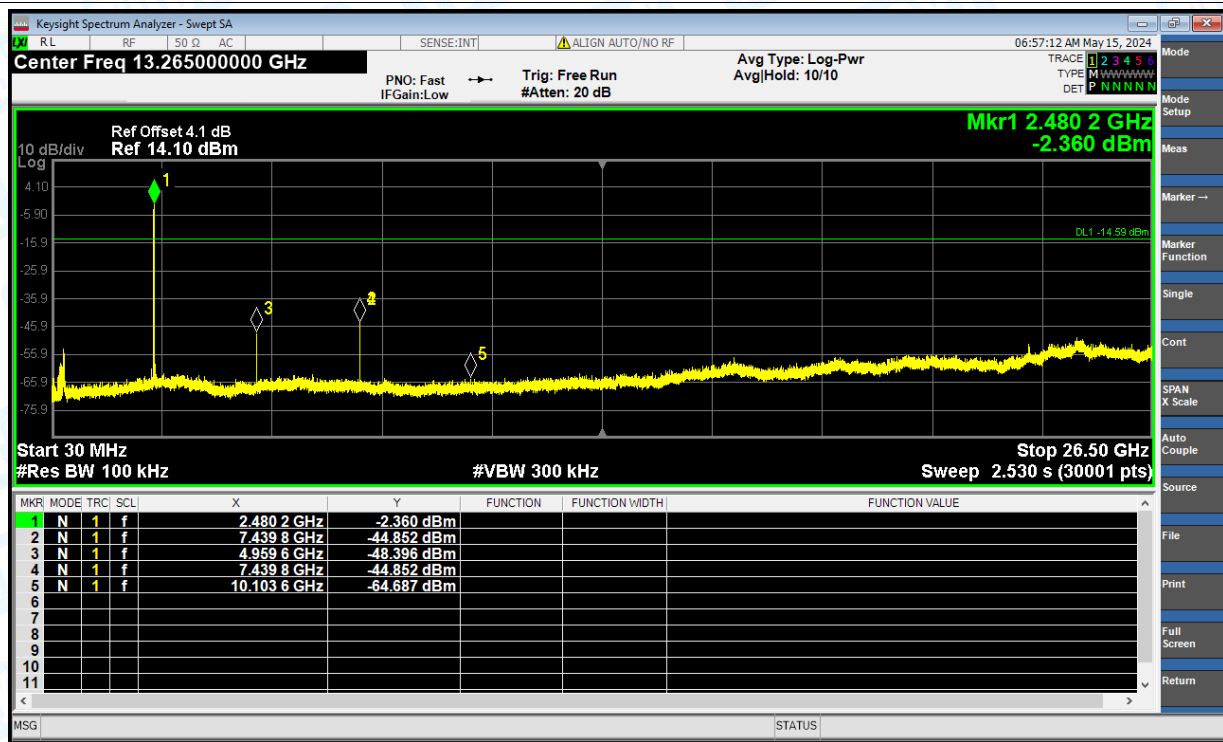
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

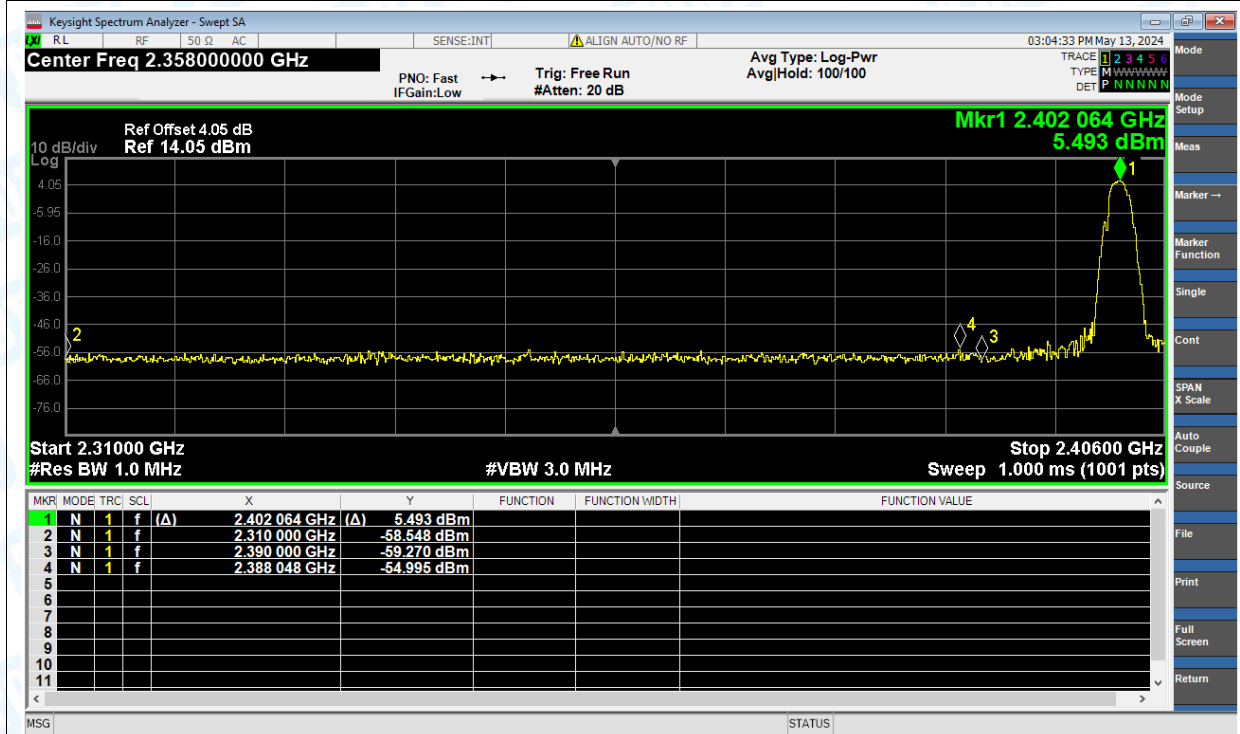


8. Restrict Band

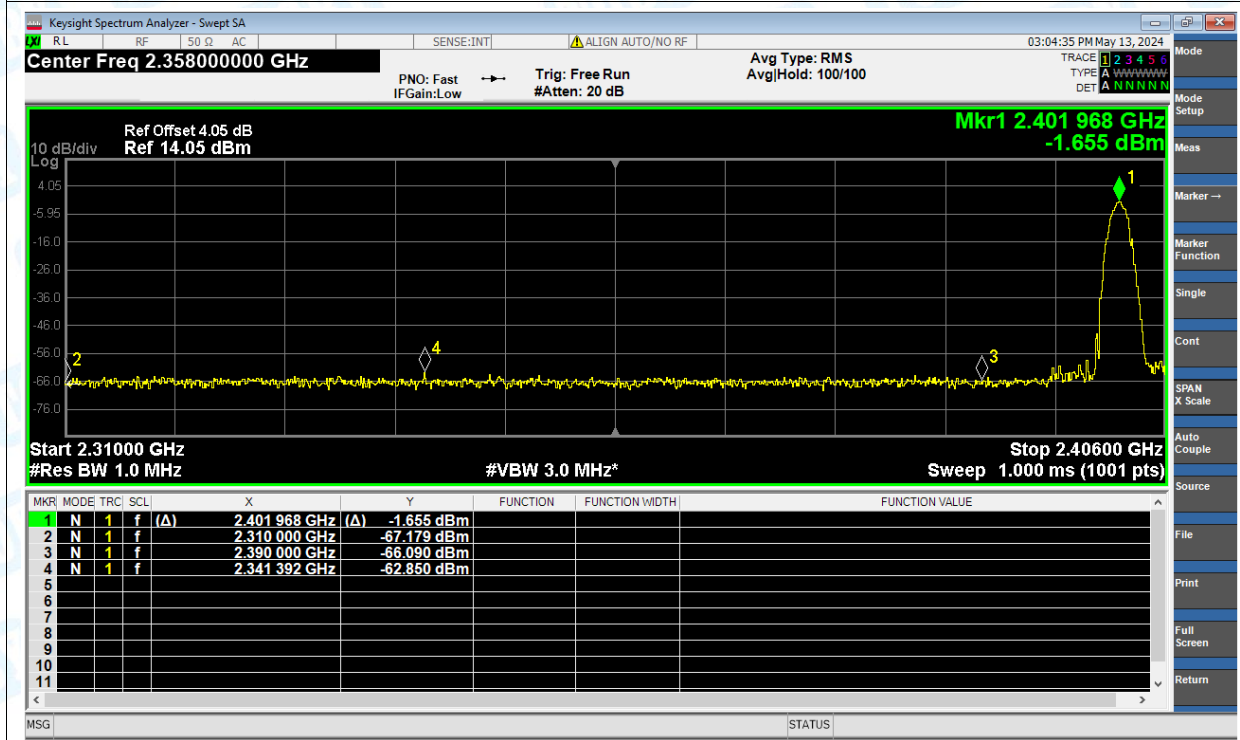
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-58.55	3	-	39.71	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-67.18	3	14.09	45.17	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2388.048	-54.99	3	-	43.27	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2341.392	-62.85	3	14.09	49.5	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-59.27	3	-	38.99	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-66.09	3	14.09	46.26	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-48.13	3	-	50.13	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-64.8	3	14.2	47.66	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.76	-46.22	3	-	52.04	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.36	-64.56	3	14.2	47.9	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.64	3	-	41.62	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-65.61	3	14.2	46.85	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-59.68	3	-	38.58	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-66.68	3	14.09	45.67	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2389.008	-52.71	3	-	45.55	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2386.416	-65.4	3	14.09	46.95	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-58.62	3	-	39.64	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-66.21	3	14.09	46.14	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-52.46	3	-	45.8	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-64.87	3	14.09	47.48	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.76	-48.87	3	-	49.39	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.656	-63.35	3	14.09	49	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-56.12	3	-	42.14	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-66.17	3	14.09	46.18	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-58.12	3	-	40.14	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-66.47	3	13.98	45.77	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2388.624	-53.13	3	-	45.13	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.392	-65.14	3	13.98	47.1	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-53.64	3	-	44.62	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-65.63	3	13.98	46.61	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-51.92	3	-	46.34	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-64.83	3	14.09	47.52	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.976	-48.78	3	-	49.48	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.704	-63.45	3	14.09	48.9	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-58.1	3	-	40.16	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-66.36	3	14.09	45.99	Average	54	Pass

Test Graphs

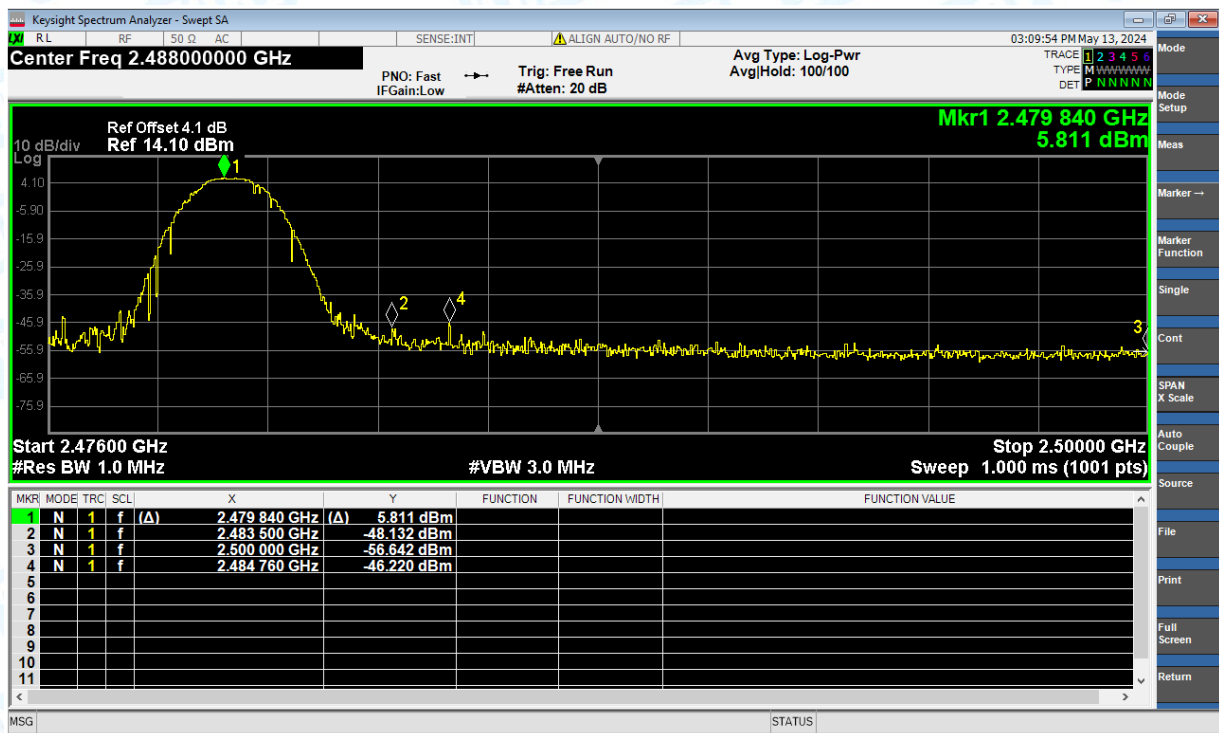
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



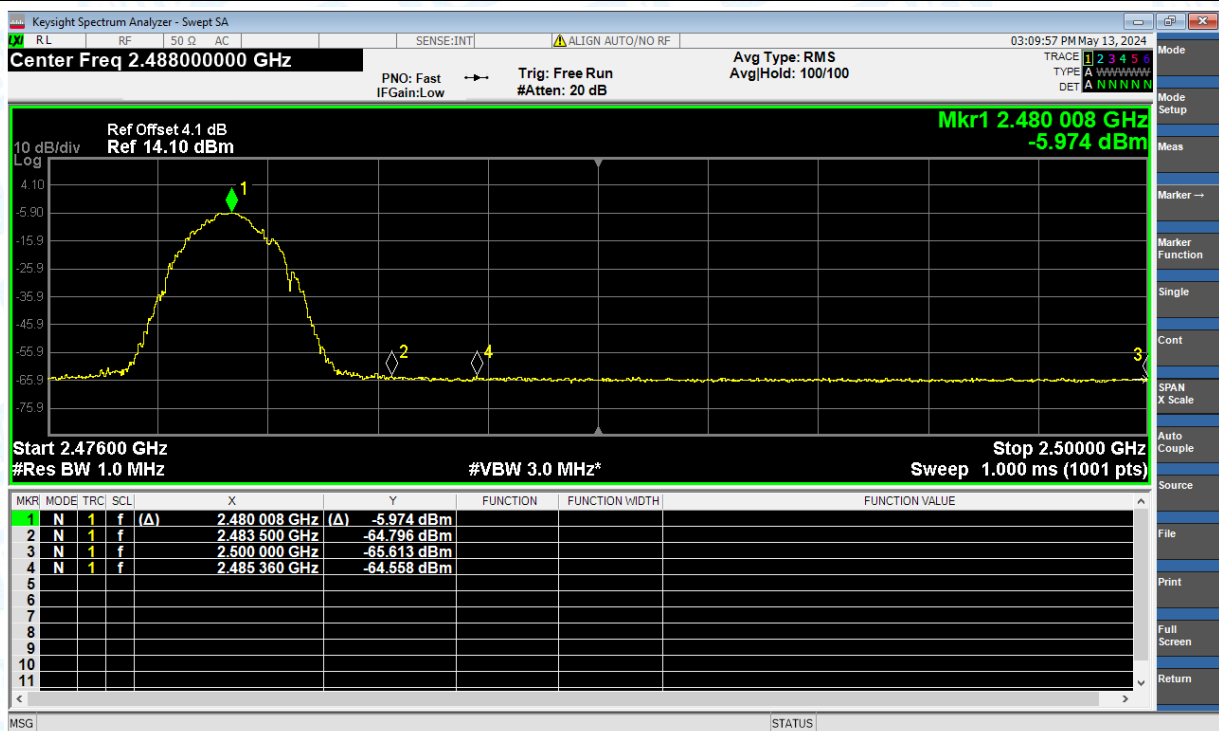
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



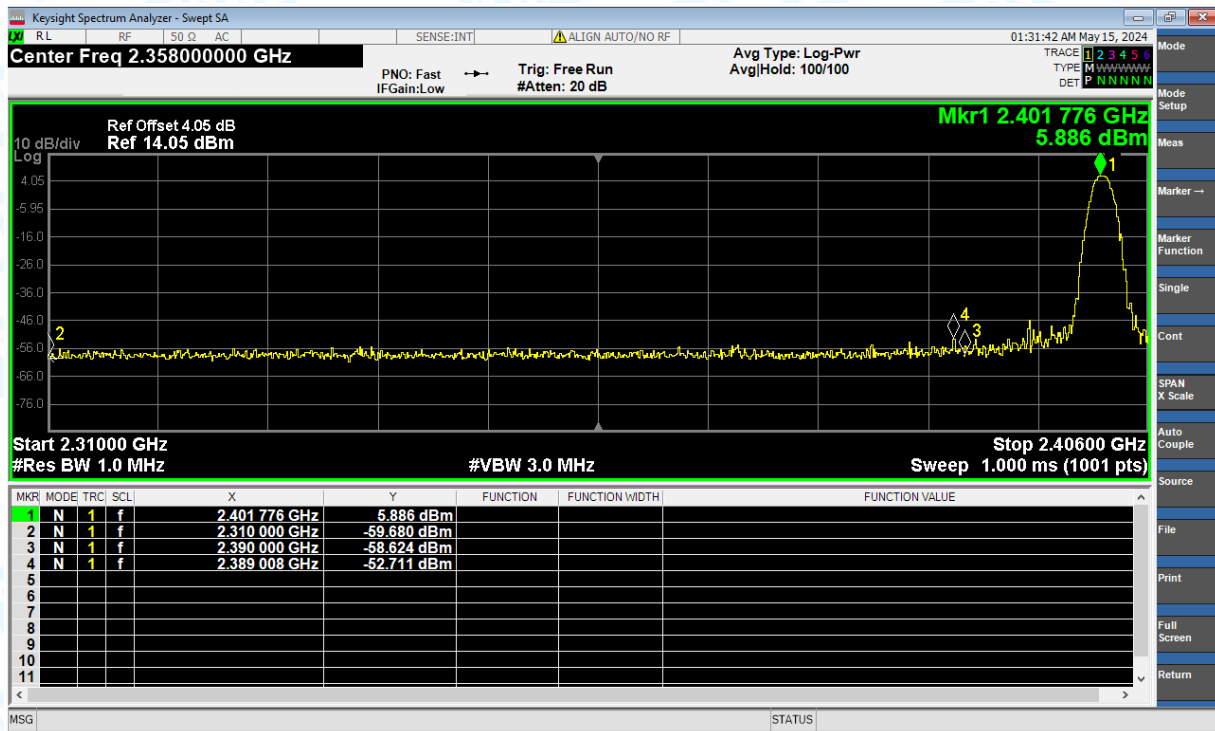
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



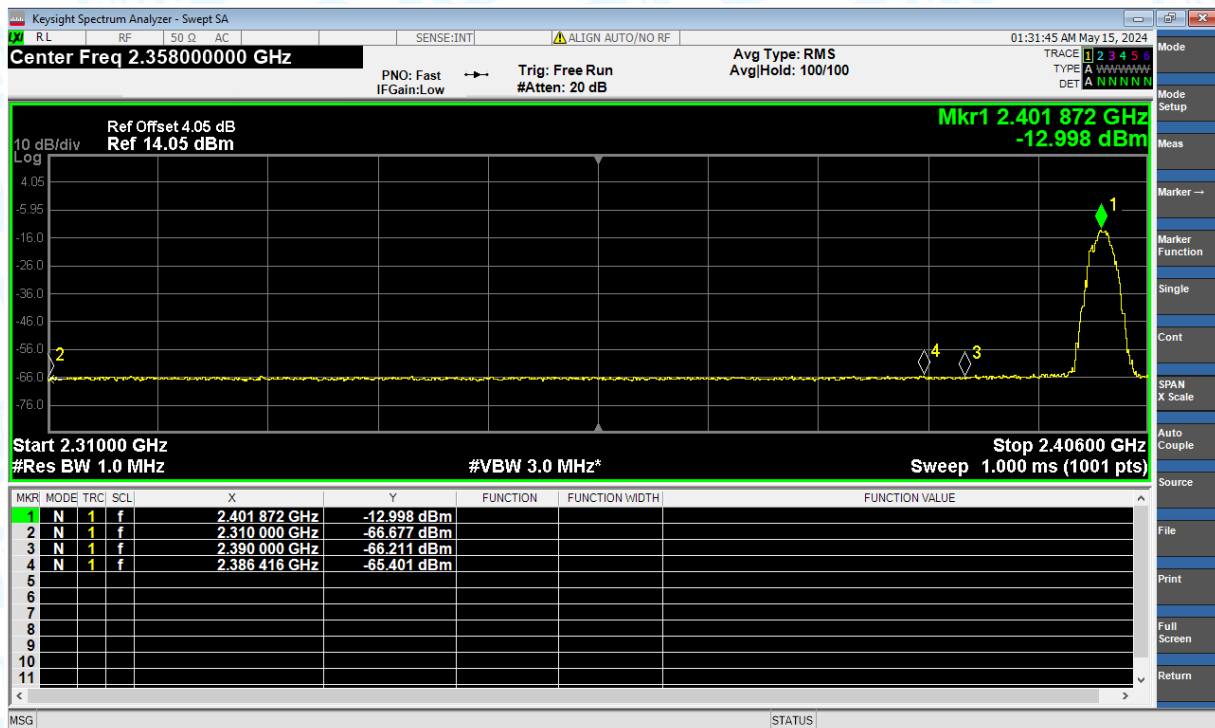
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



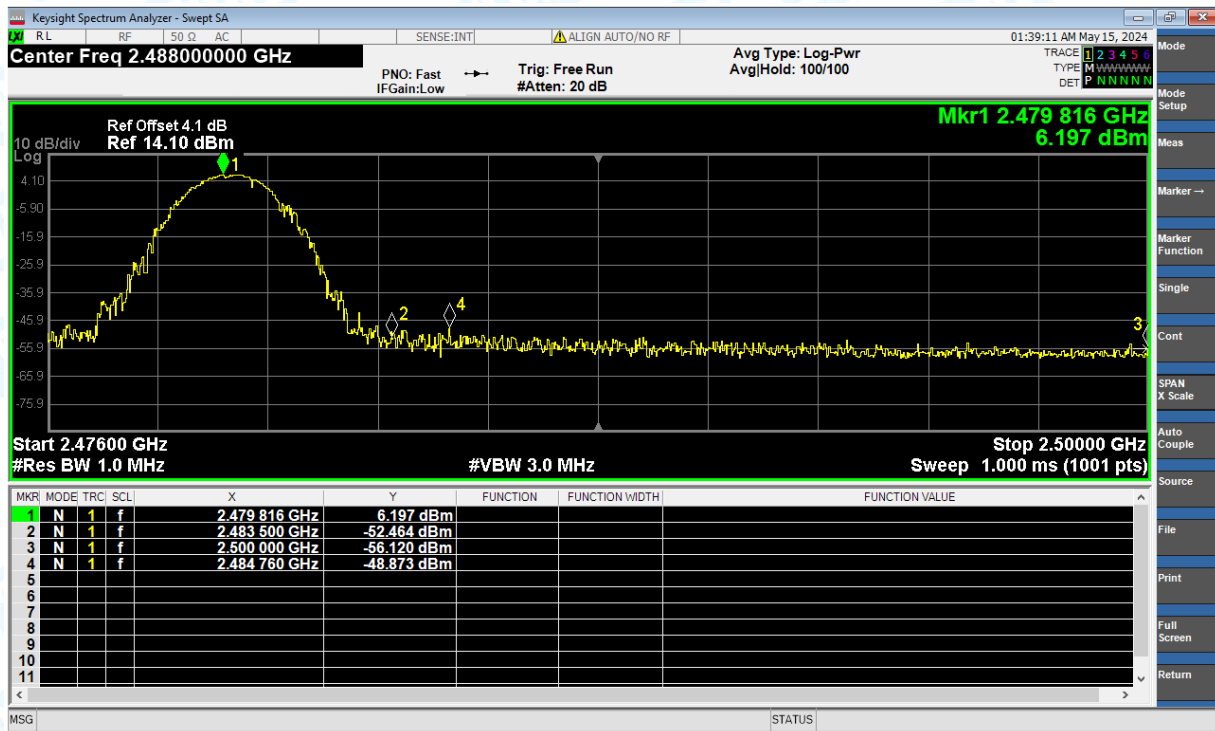
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



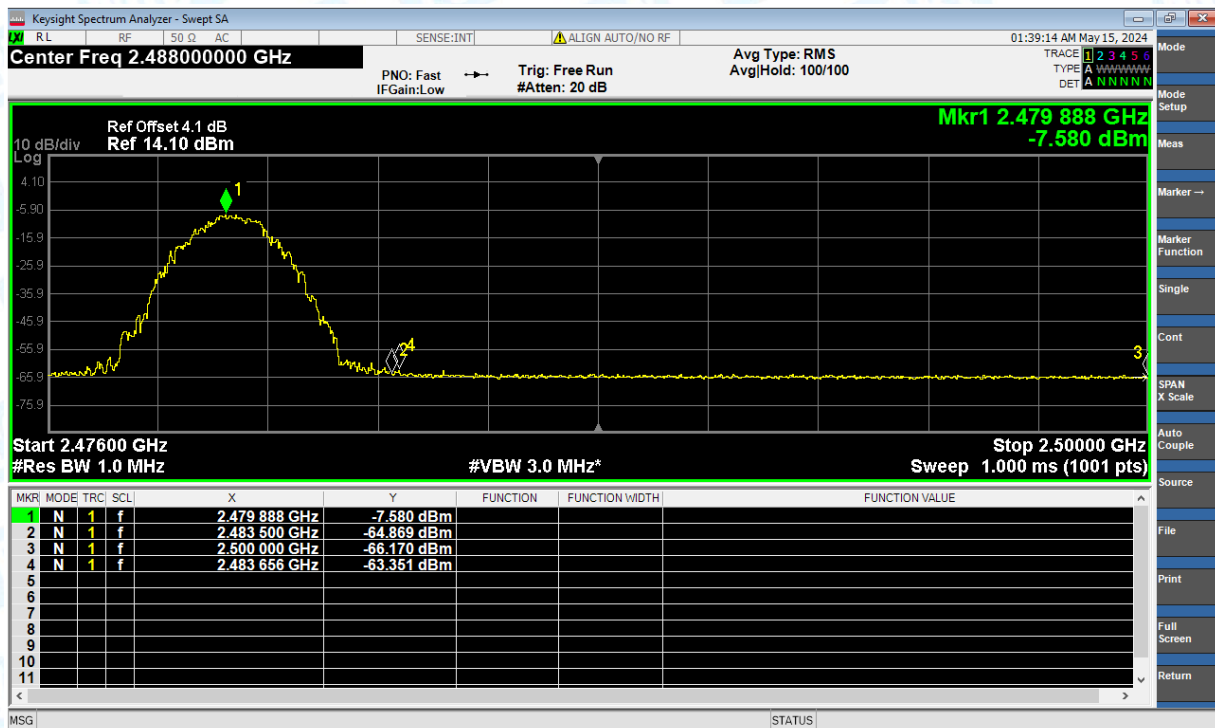
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



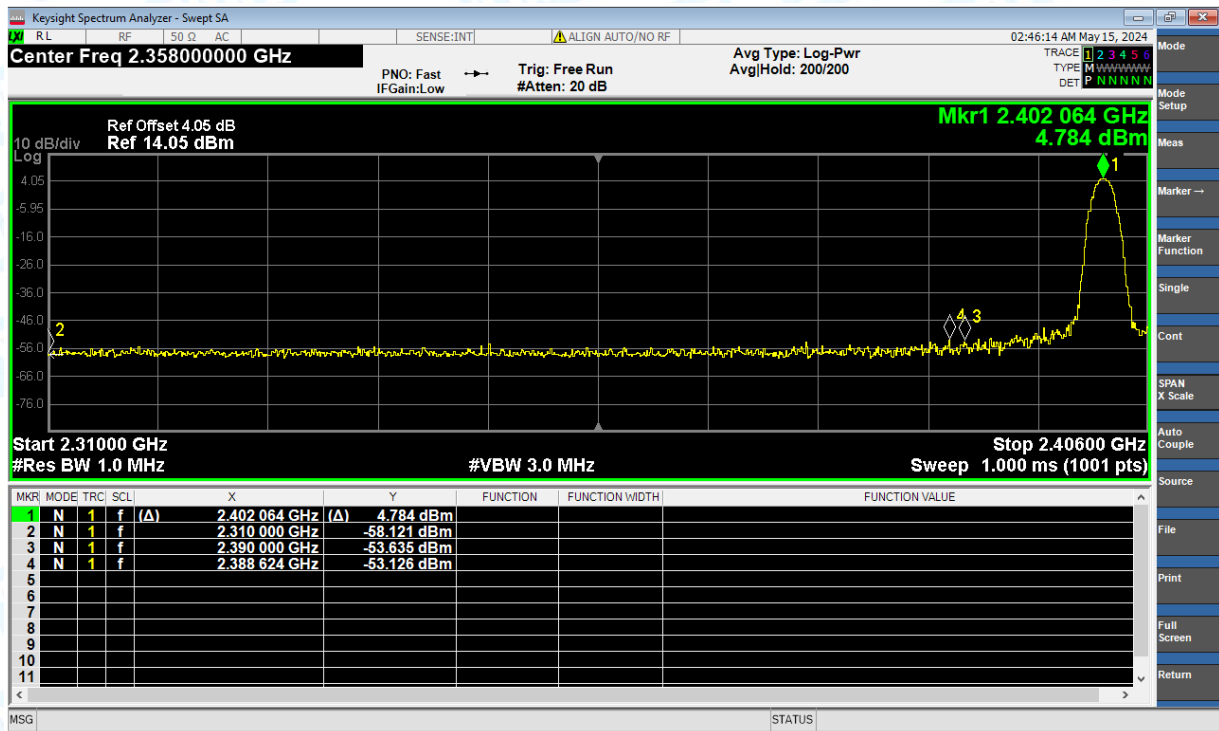
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



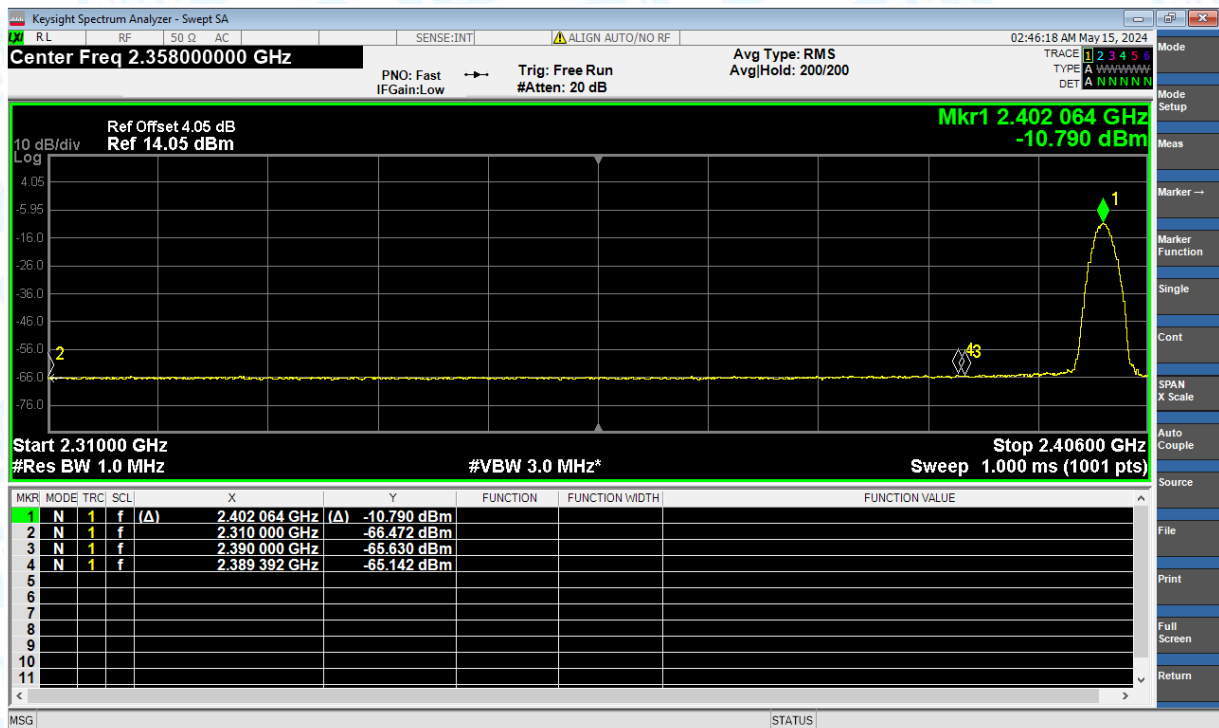
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



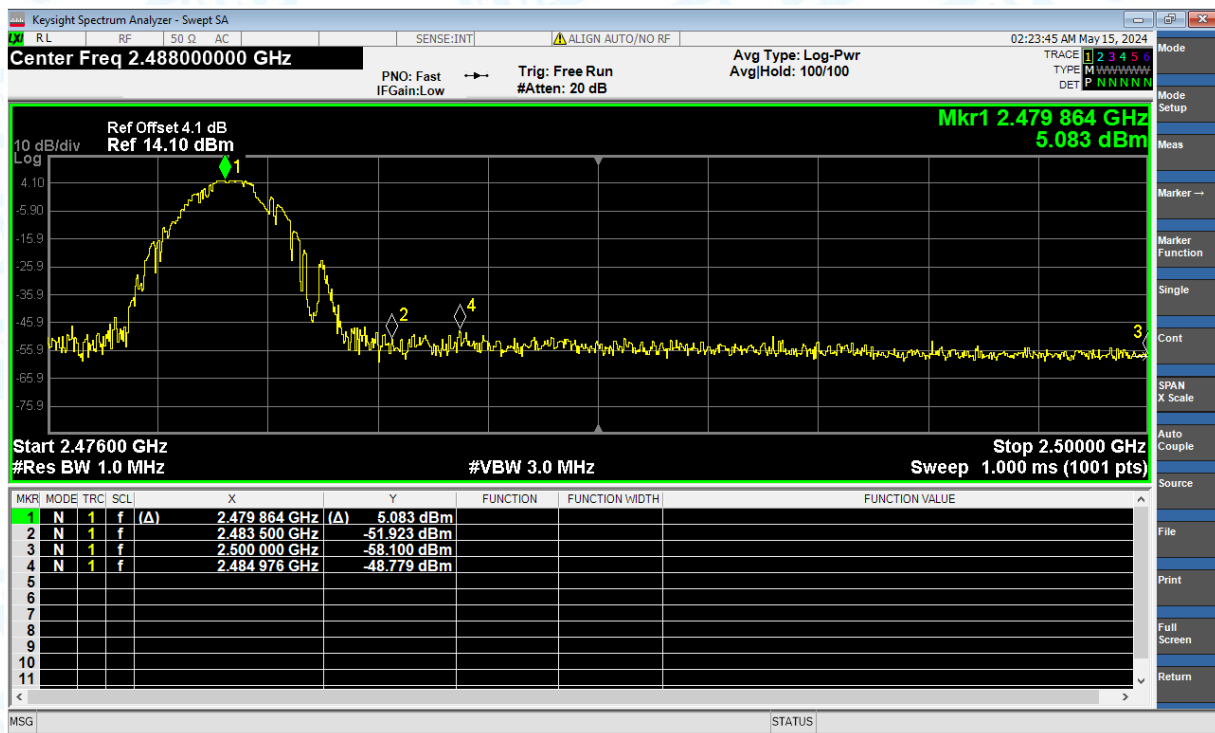
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



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

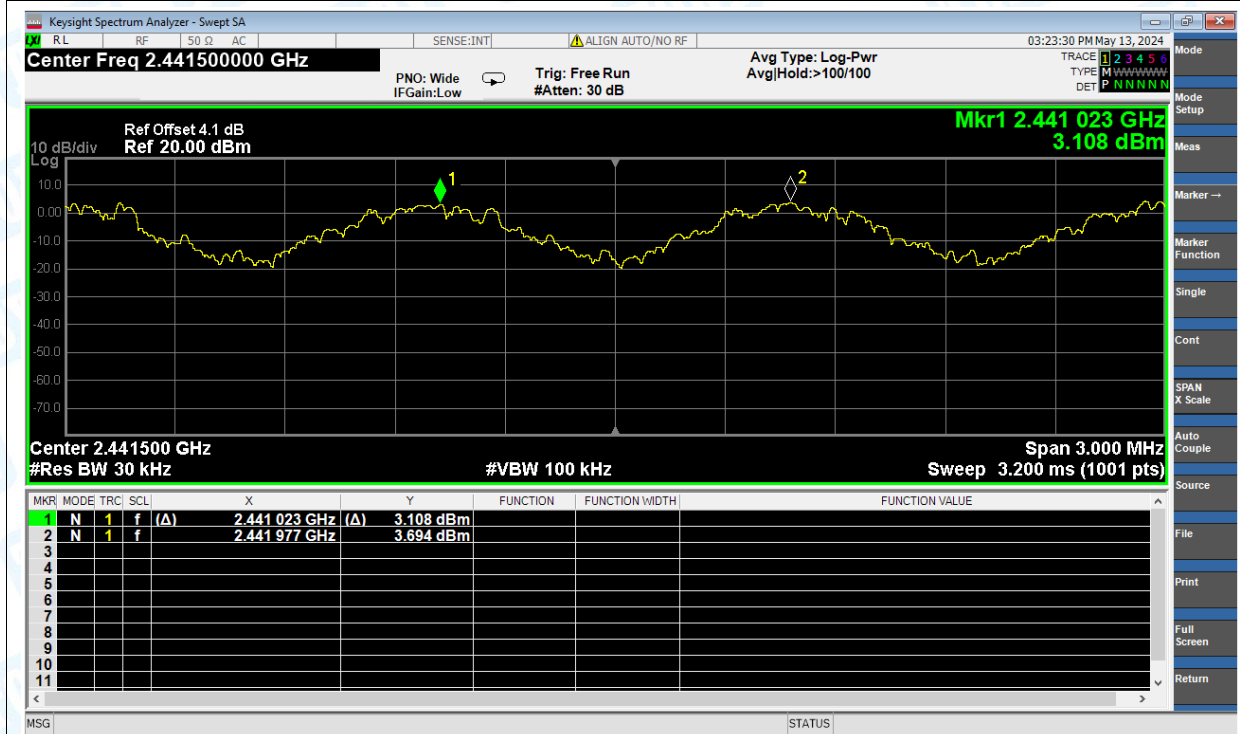


9. Carrier Frequencies Separation

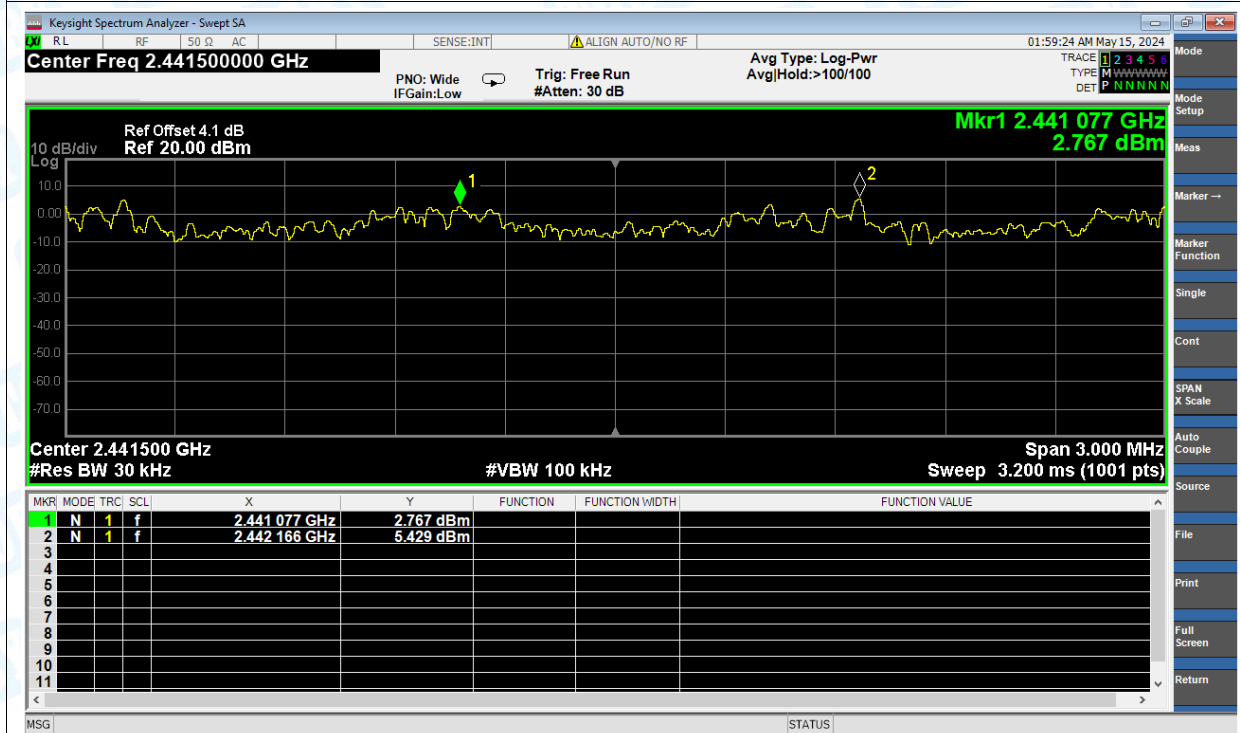
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.023	2441.977	0.954	0.62	Pass
NVNT	2-DH1	Ant1	2441.077	2442.166	1.089	0.833	Pass
NVNT	3-DH1	Ant1	2440.921	2441.926	1.005	0.793	Pass

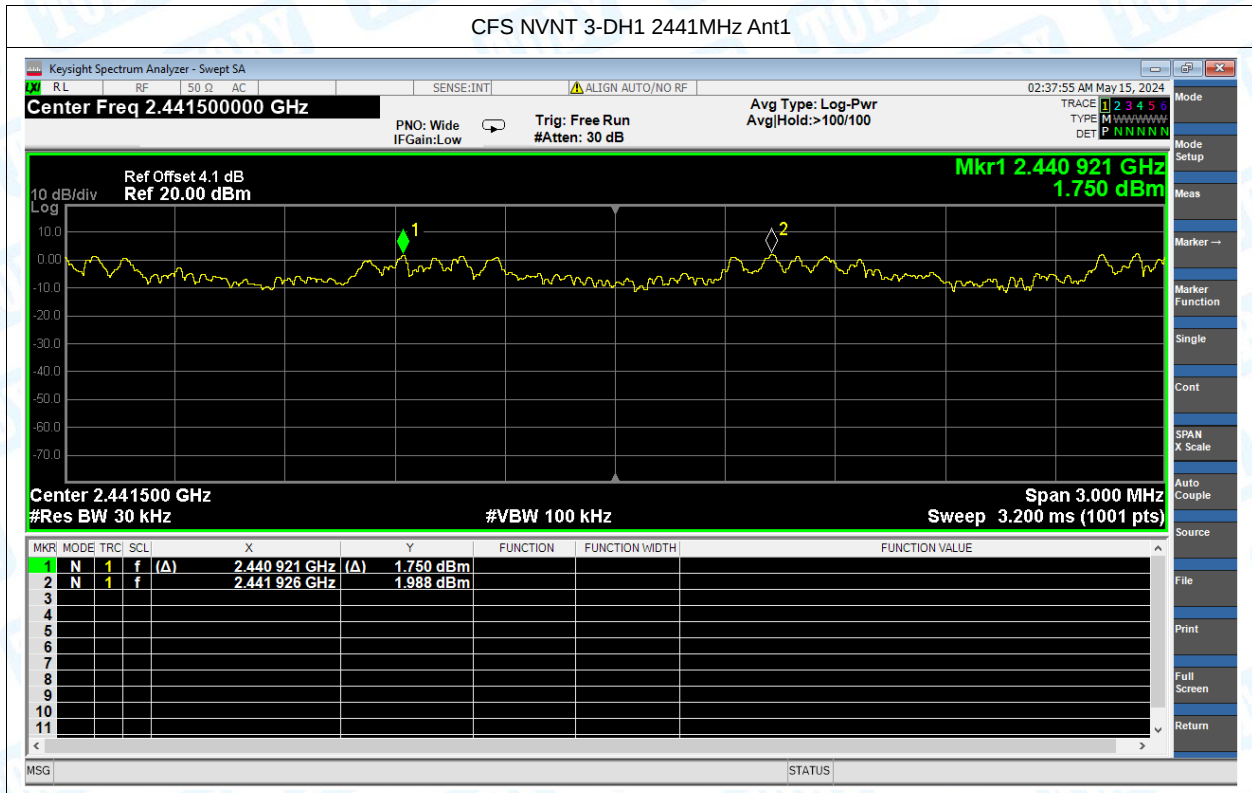
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



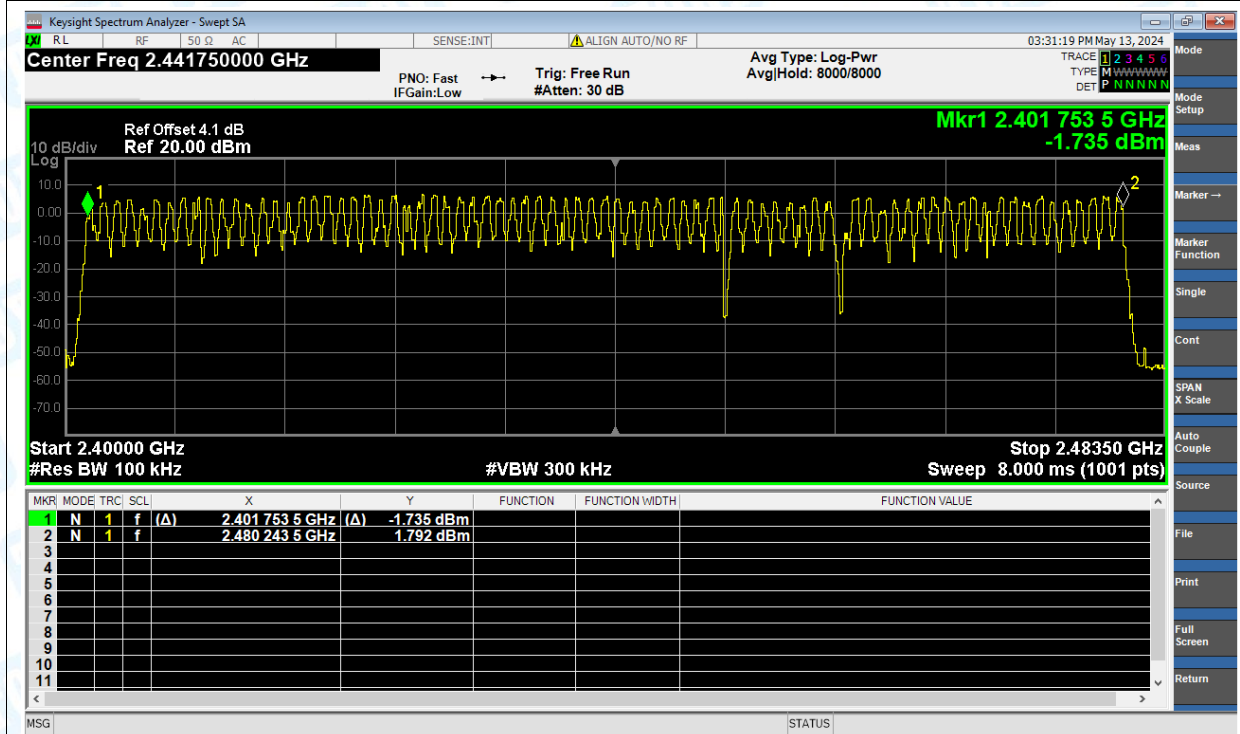


10. Number of Hopping Channel

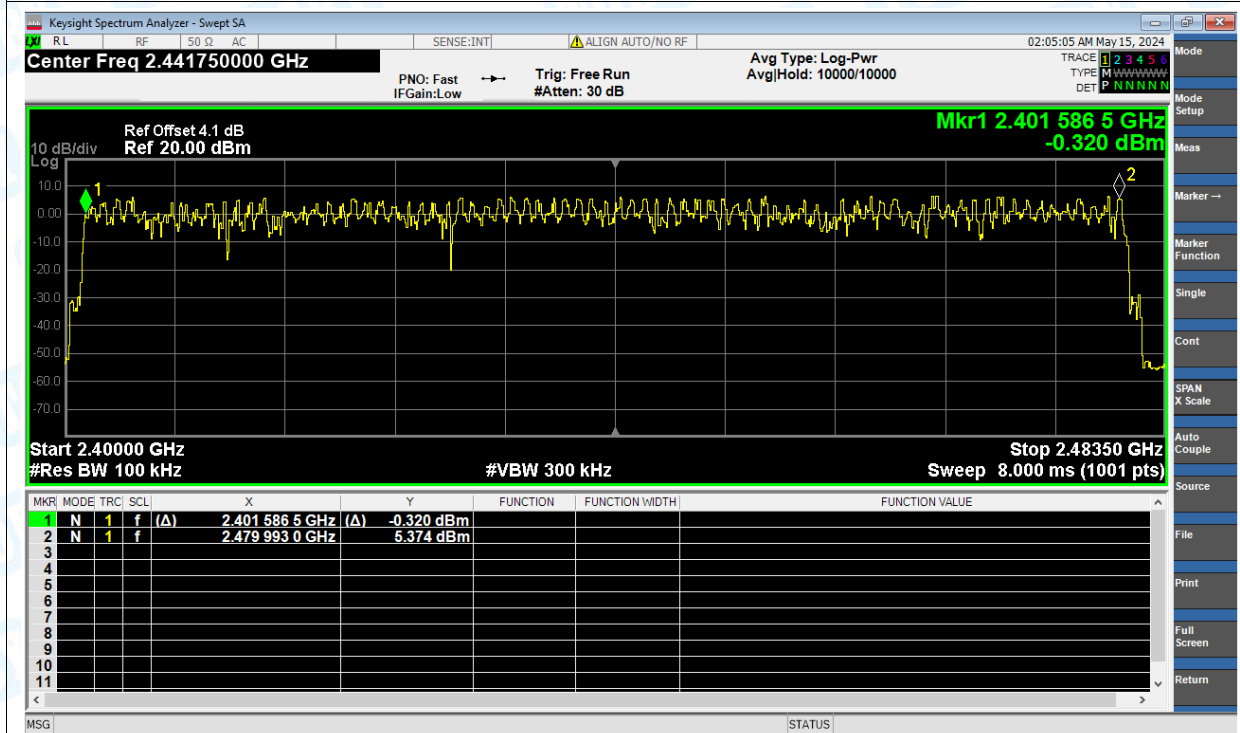
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

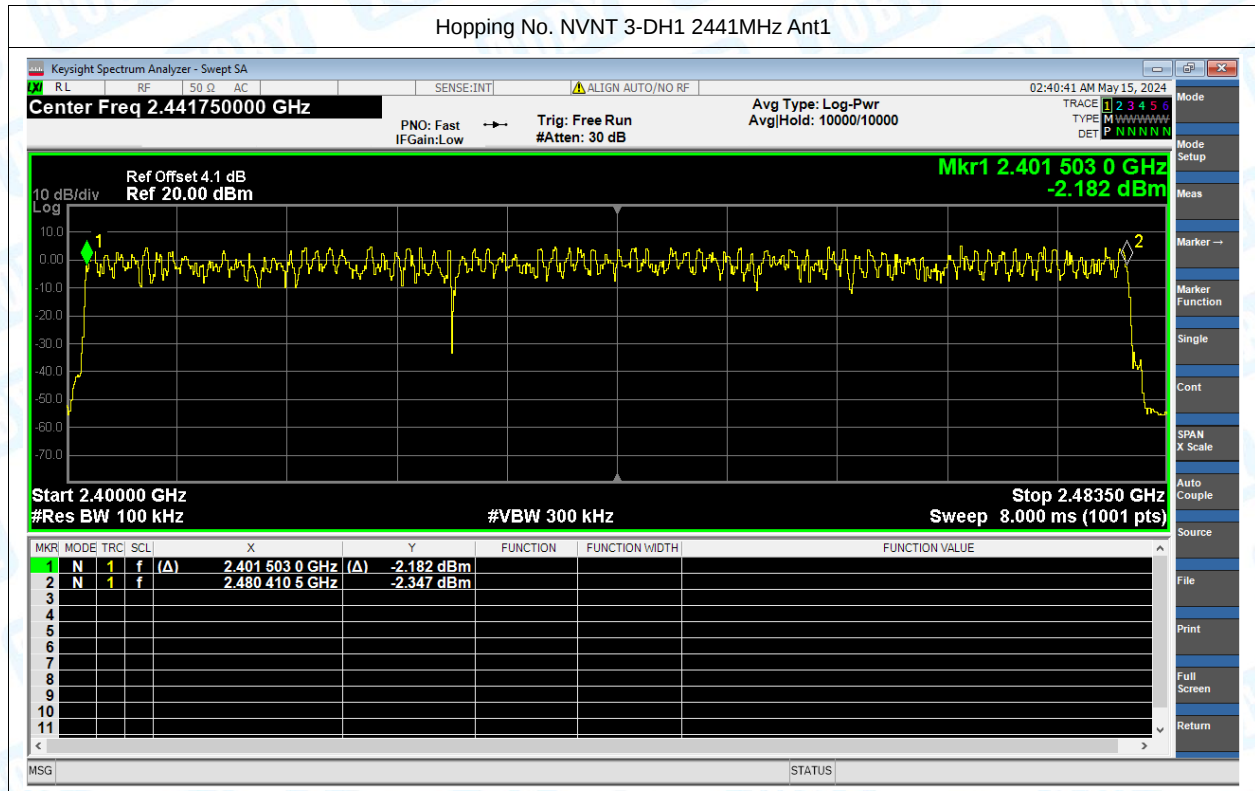
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



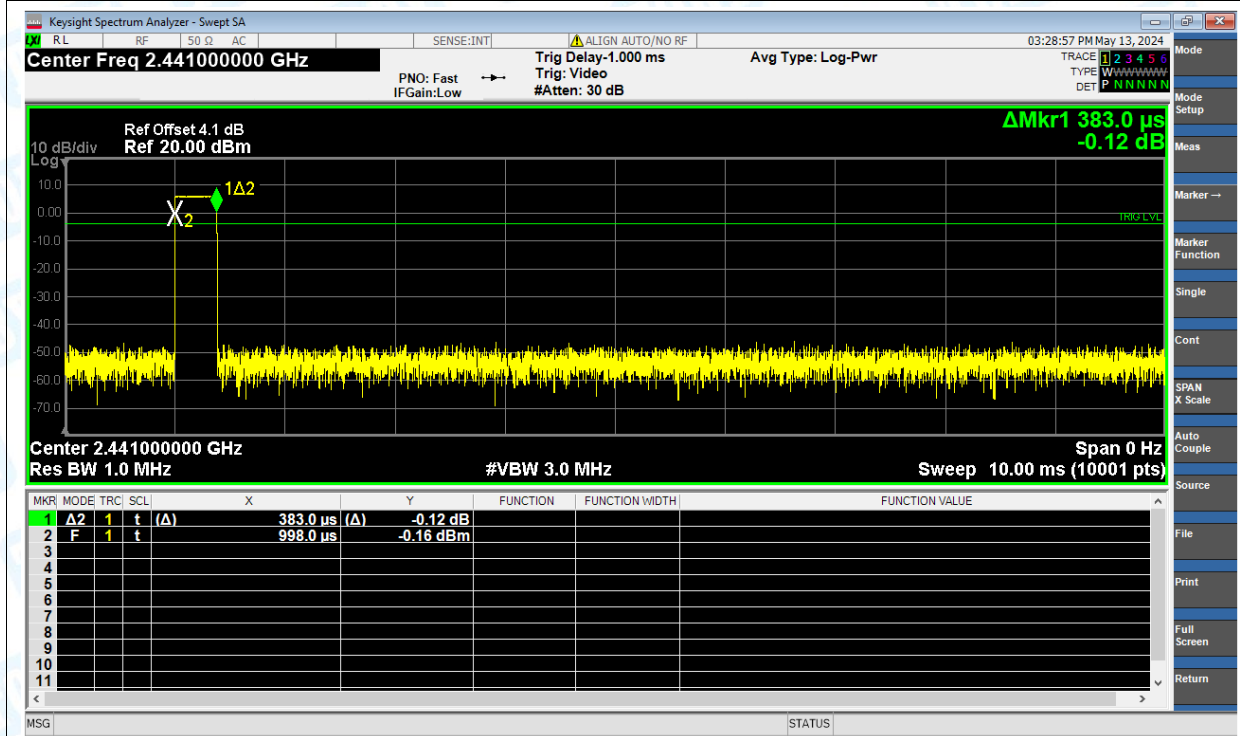


11. Dwell Time

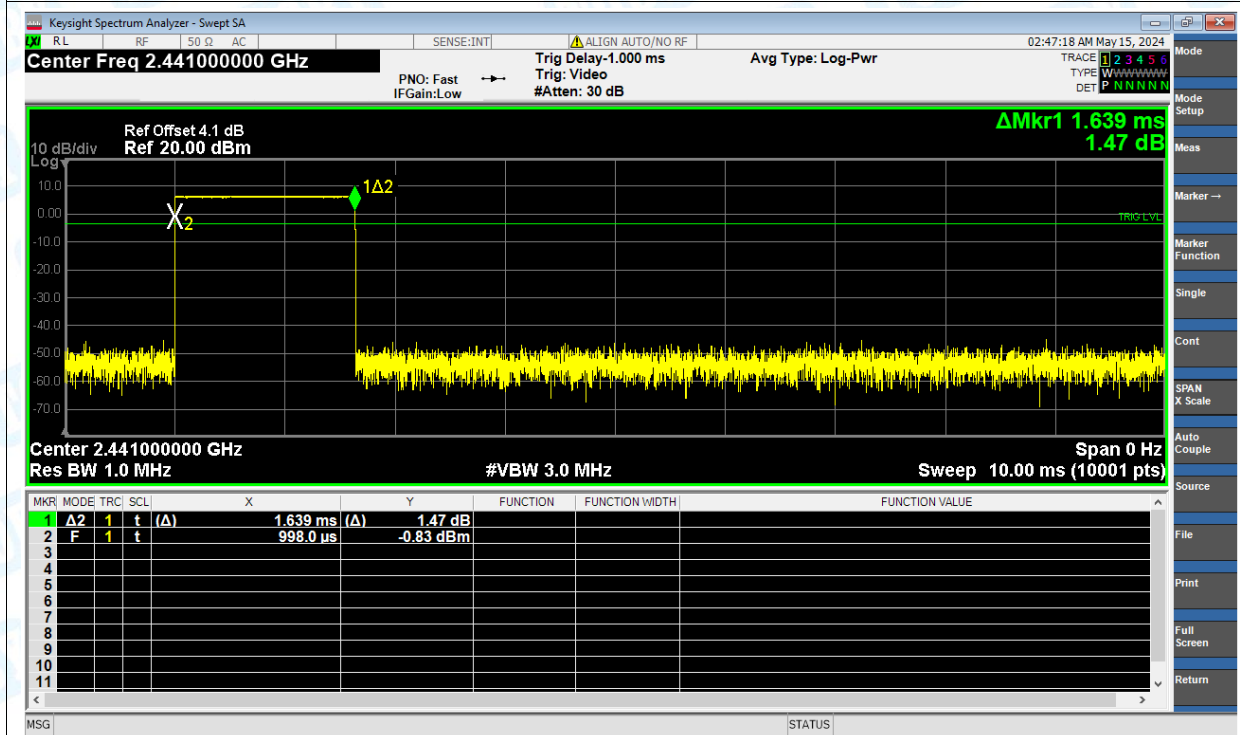
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.391	125.12	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.642	262.72	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.892	308.48	31600	400	Pass

Test Graphs

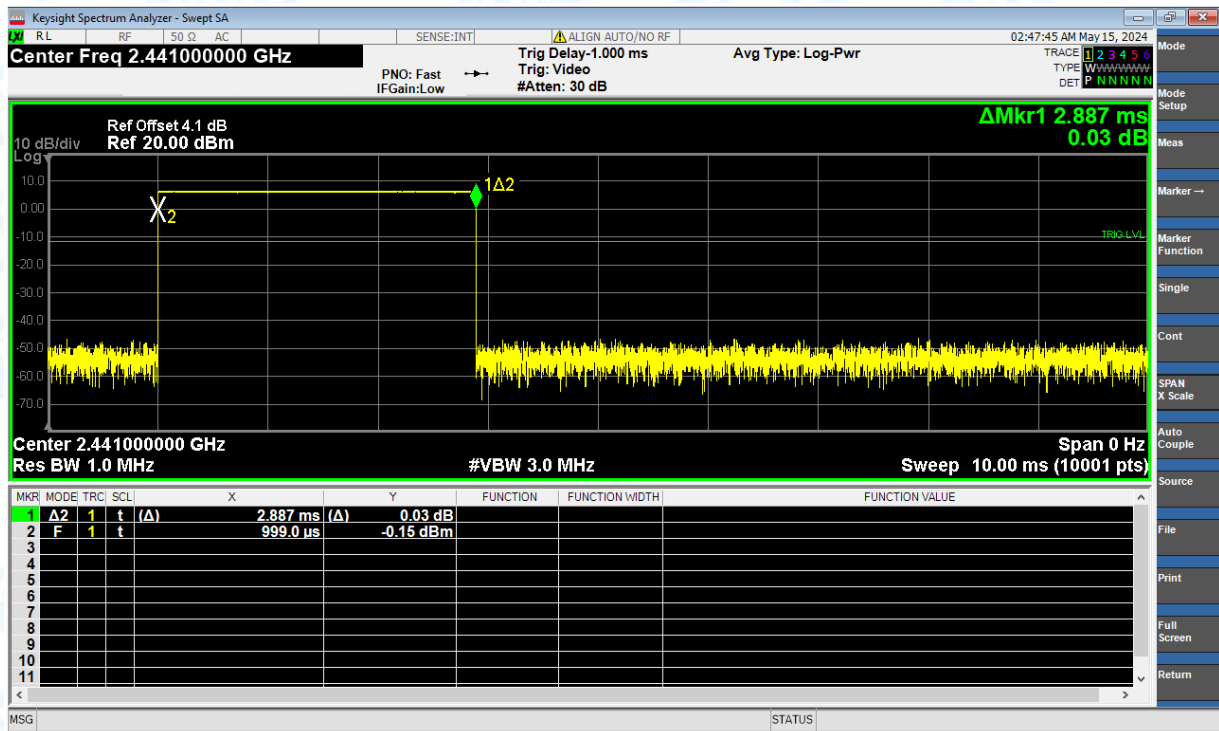
Dwell NVNT 1-DH1 2441MHz Ant1



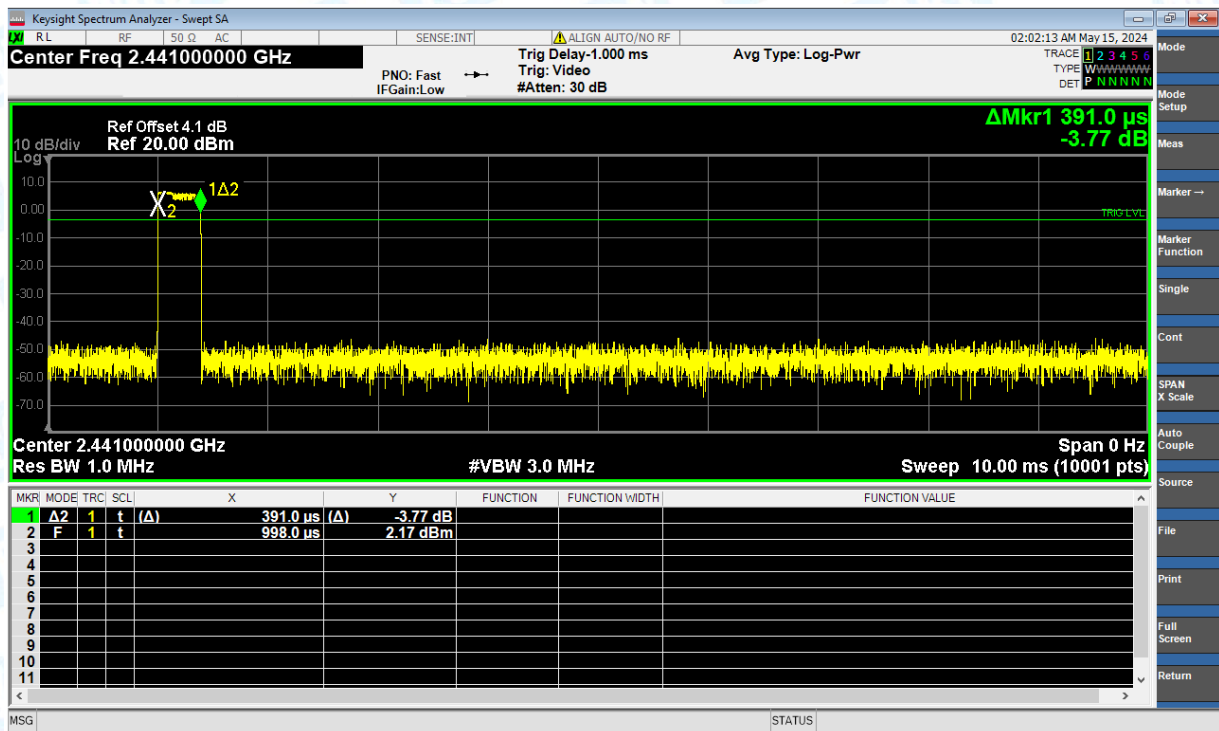
Dwell NVNT 1-DH3 2441MHz Ant1



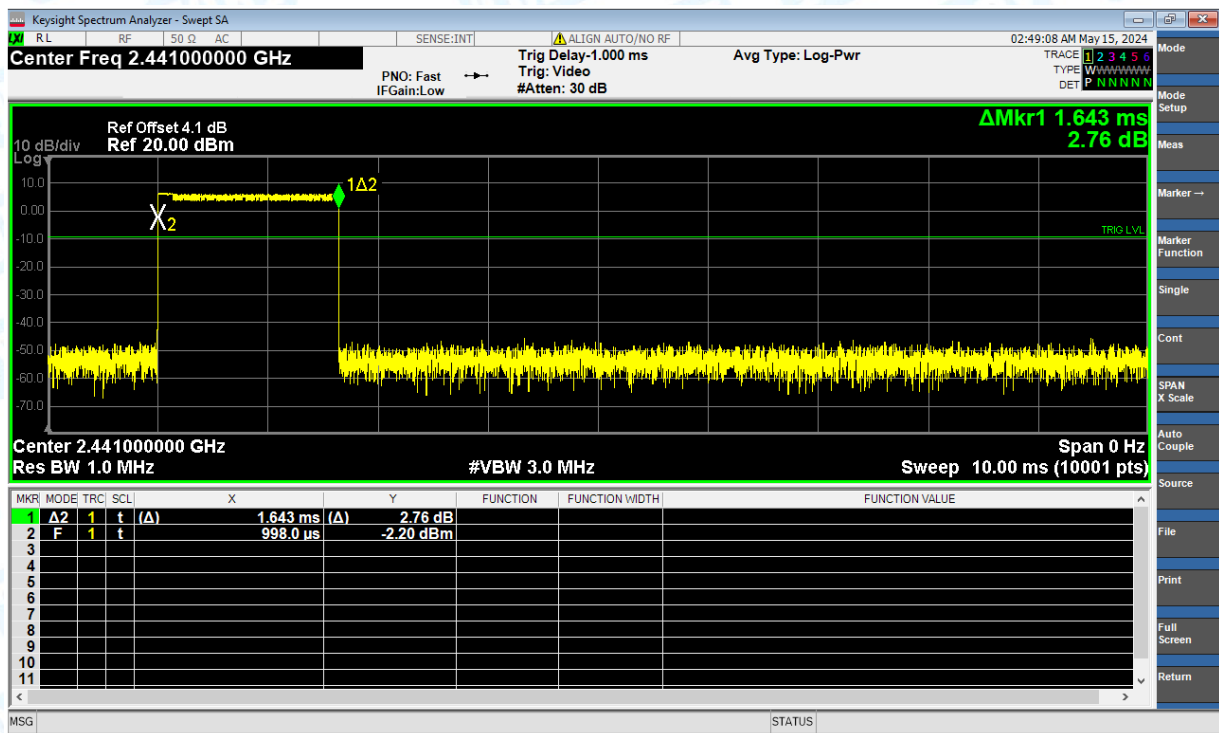
Dwell NVNT 1-DH5 2441MHz Ant1



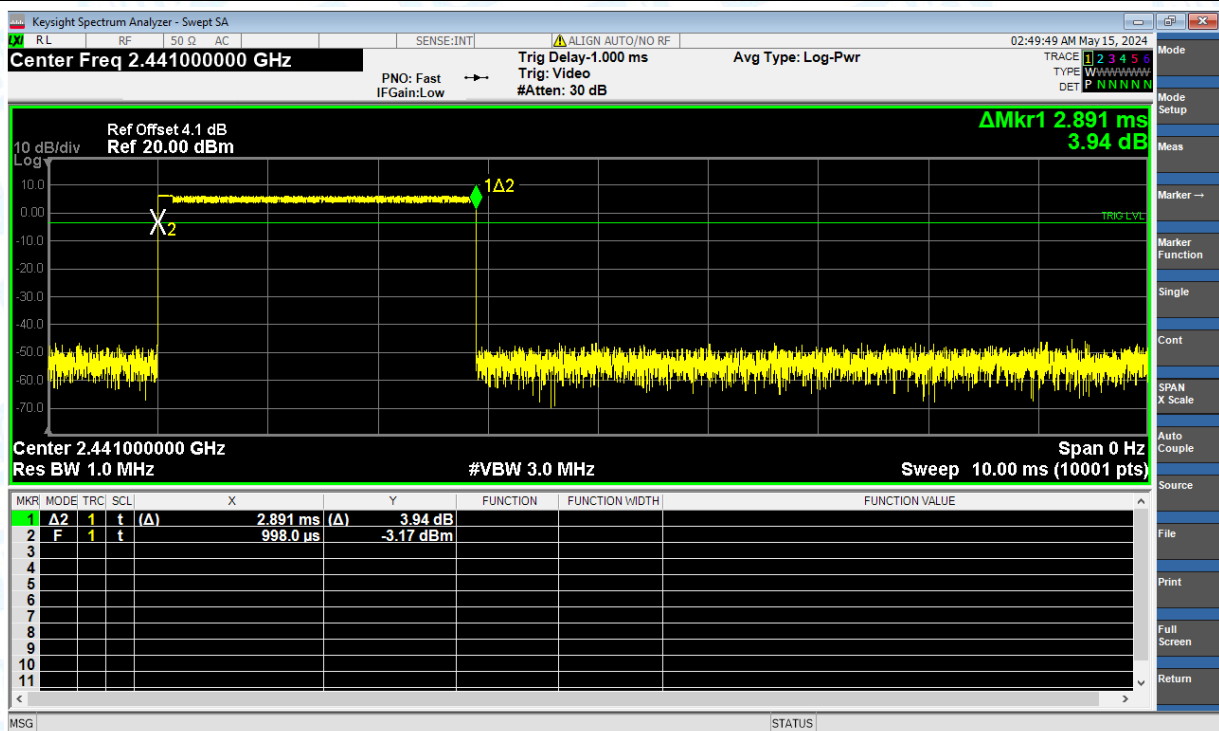
Dwell NVNT 2-DH1 2441MHz Ant1



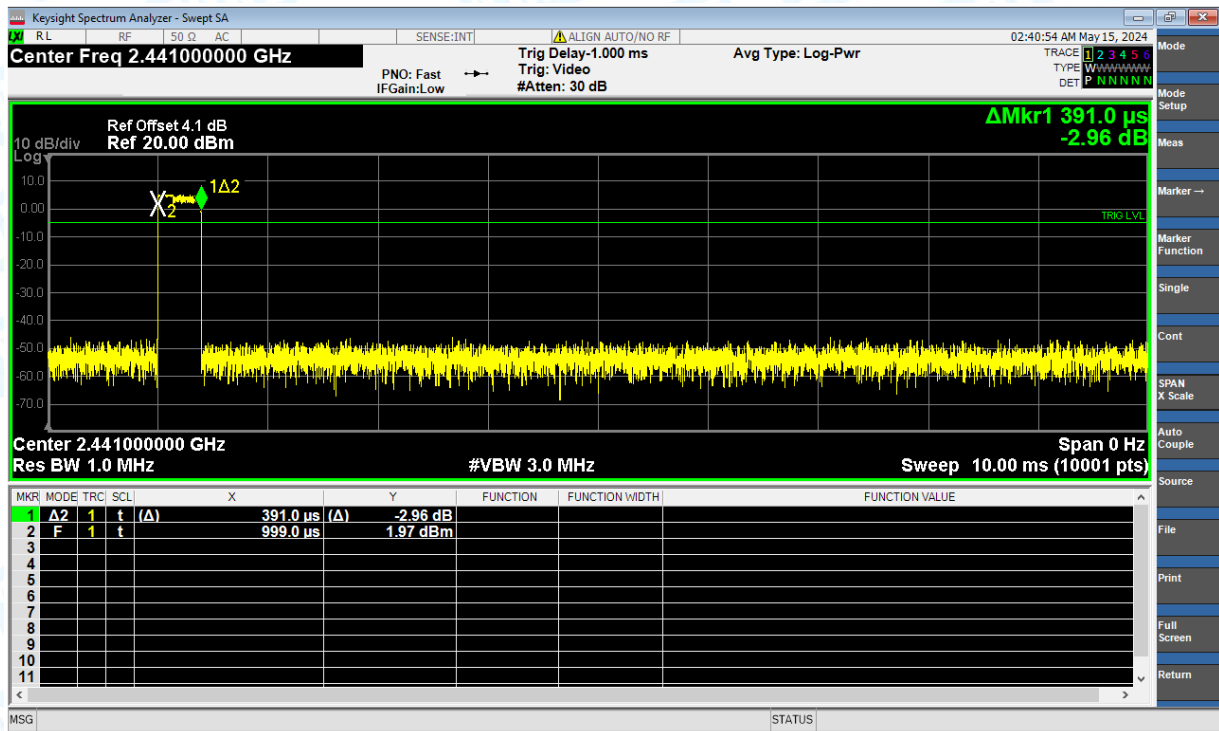
Dwell NVNT 2-DH3 2441MHz Ant1



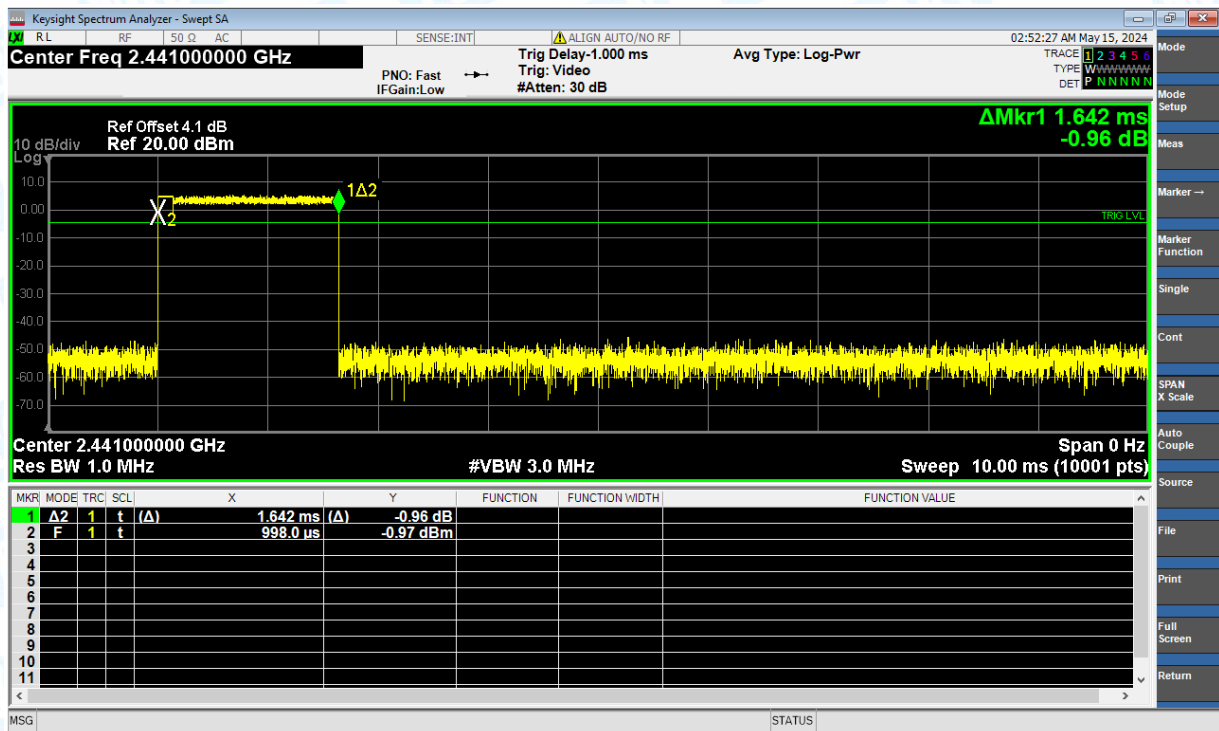
Dwell NVNT 2-DH5 2441MHz Ant1

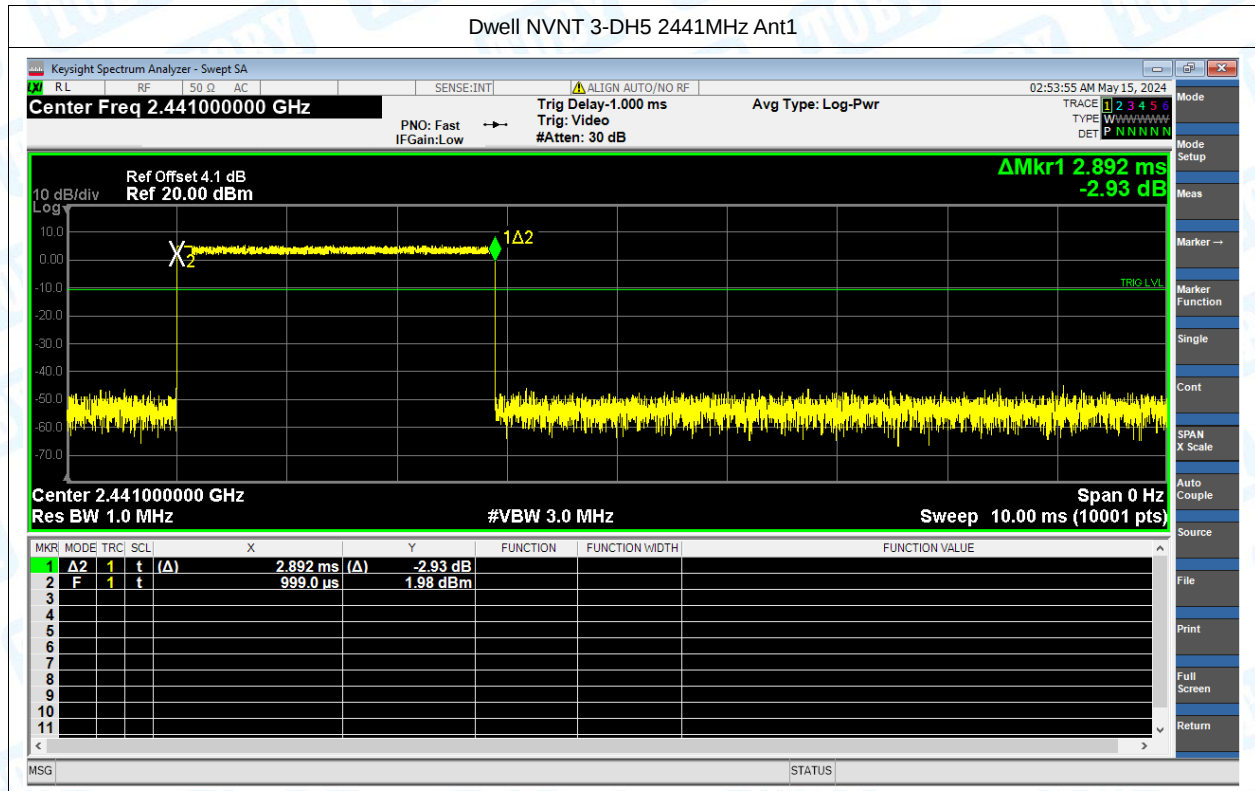


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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