

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Headphone
Test Model:	picun F6
Sample ID:	HC-C-202405-0044-01-01
Environmental Conditions	
Temperature:	24.2°C
Relative Humidity:	46.8%
Test Voltage:	DC 3.7V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202405-0044-1 The report only show the worst case data.	

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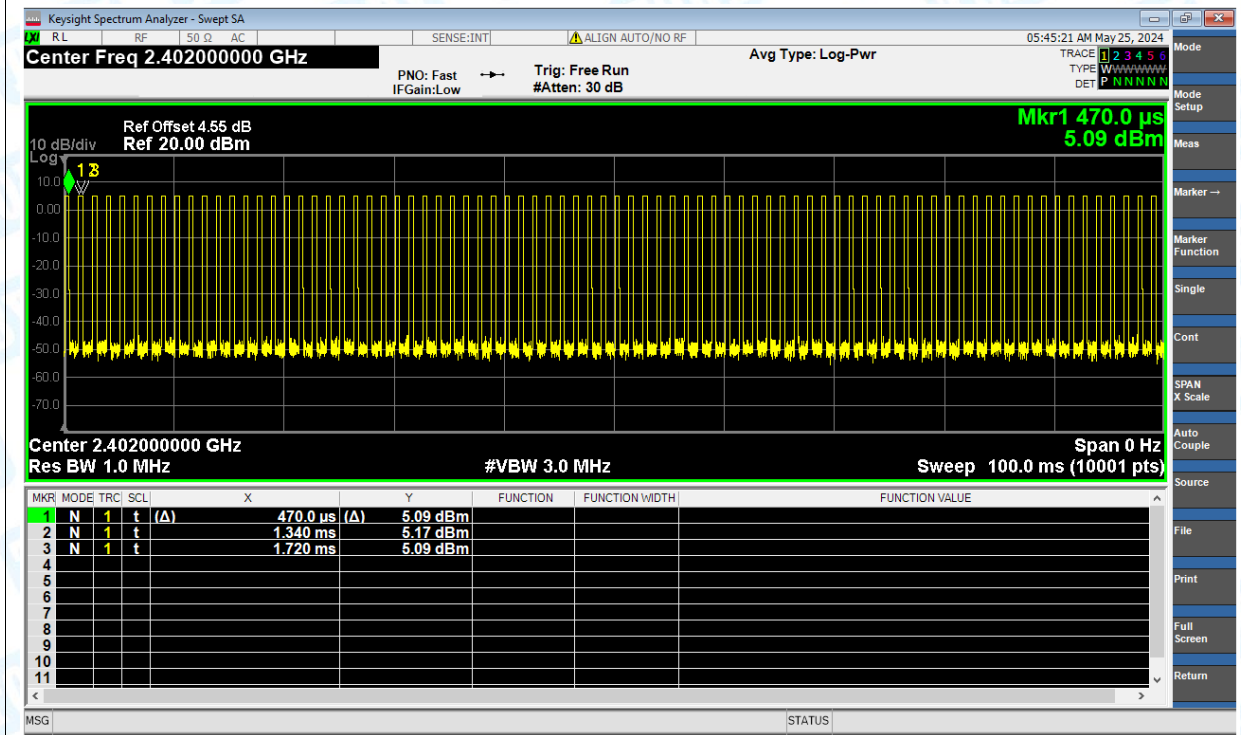
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1. Duty Cycle

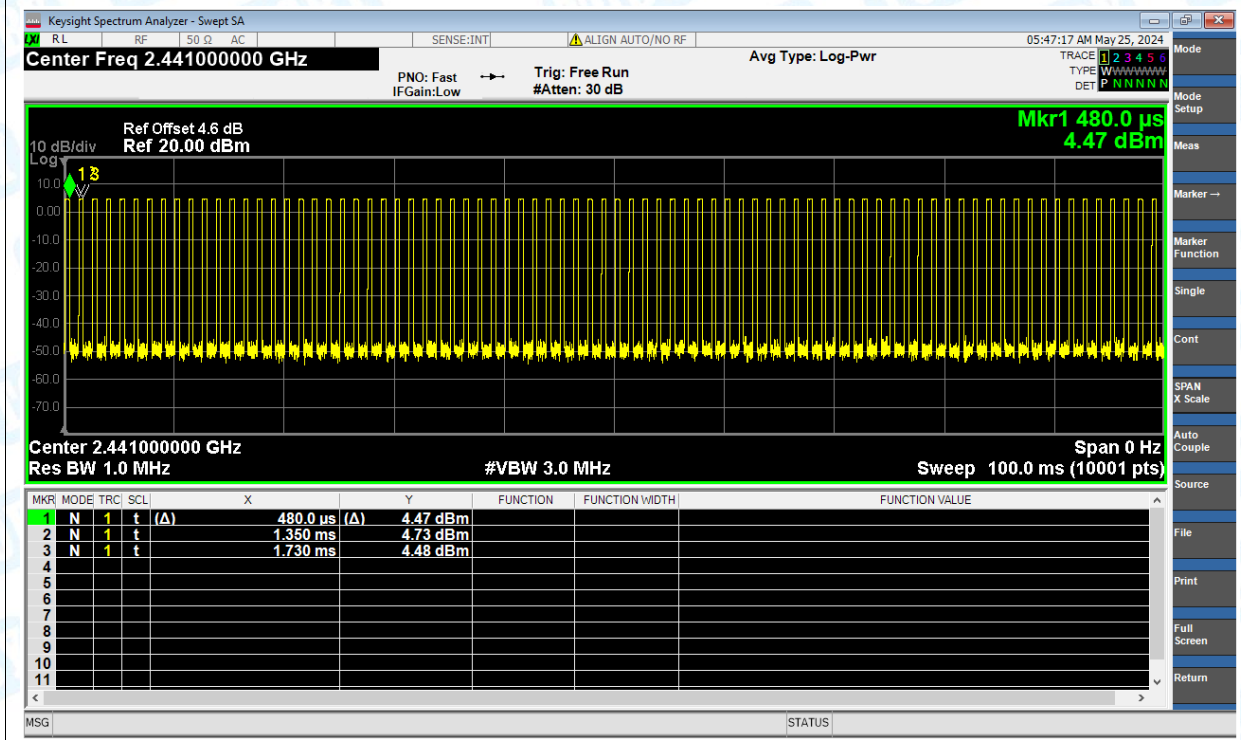
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	32	4.95	2.5
NVNT	3-DH1	2441	Ant1	32	4.95	2.5
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

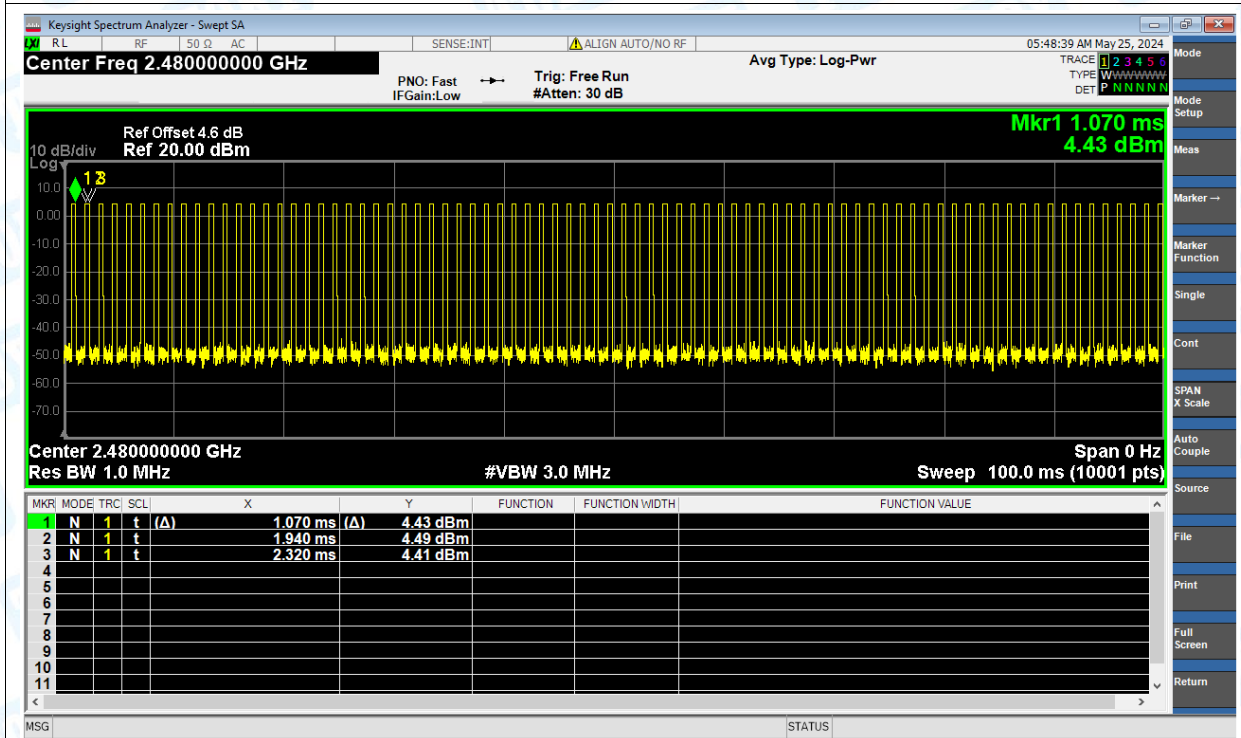
Duty Cycle NVNT 1-DH1 2402MHz Ant1



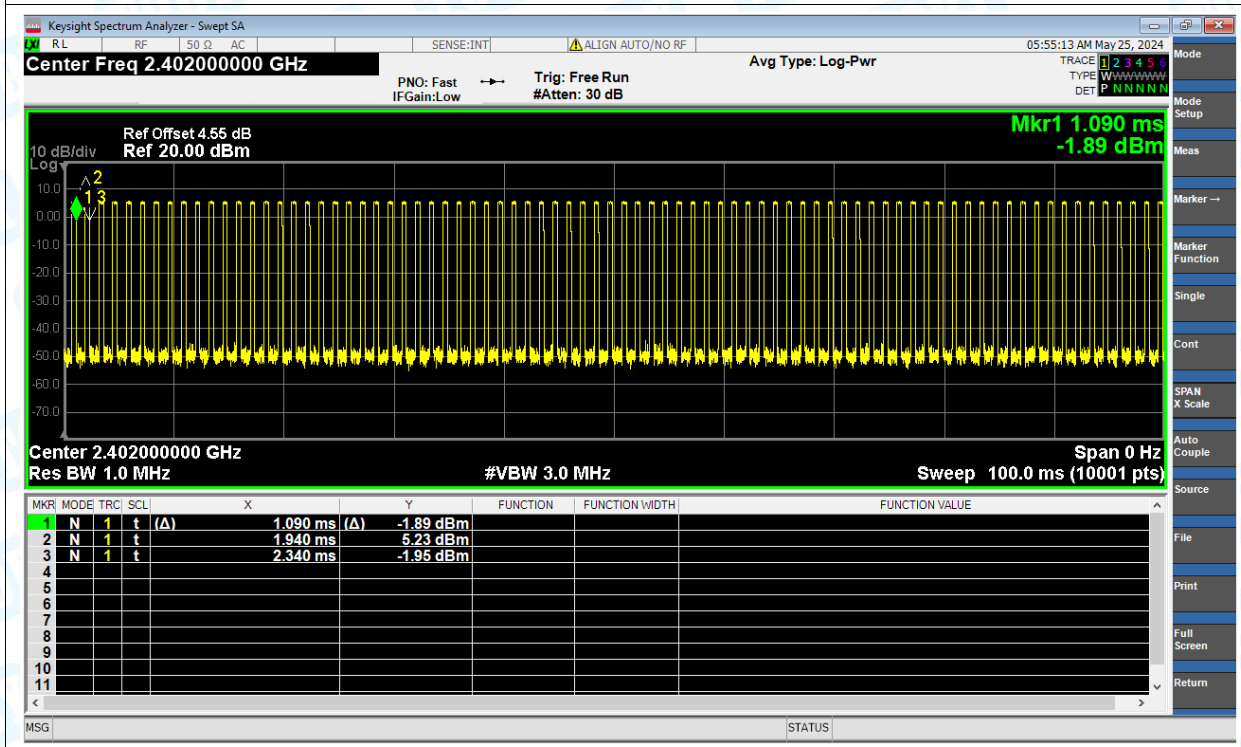
Duty Cycle NVNT 1-DH1 2441MHz Ant1



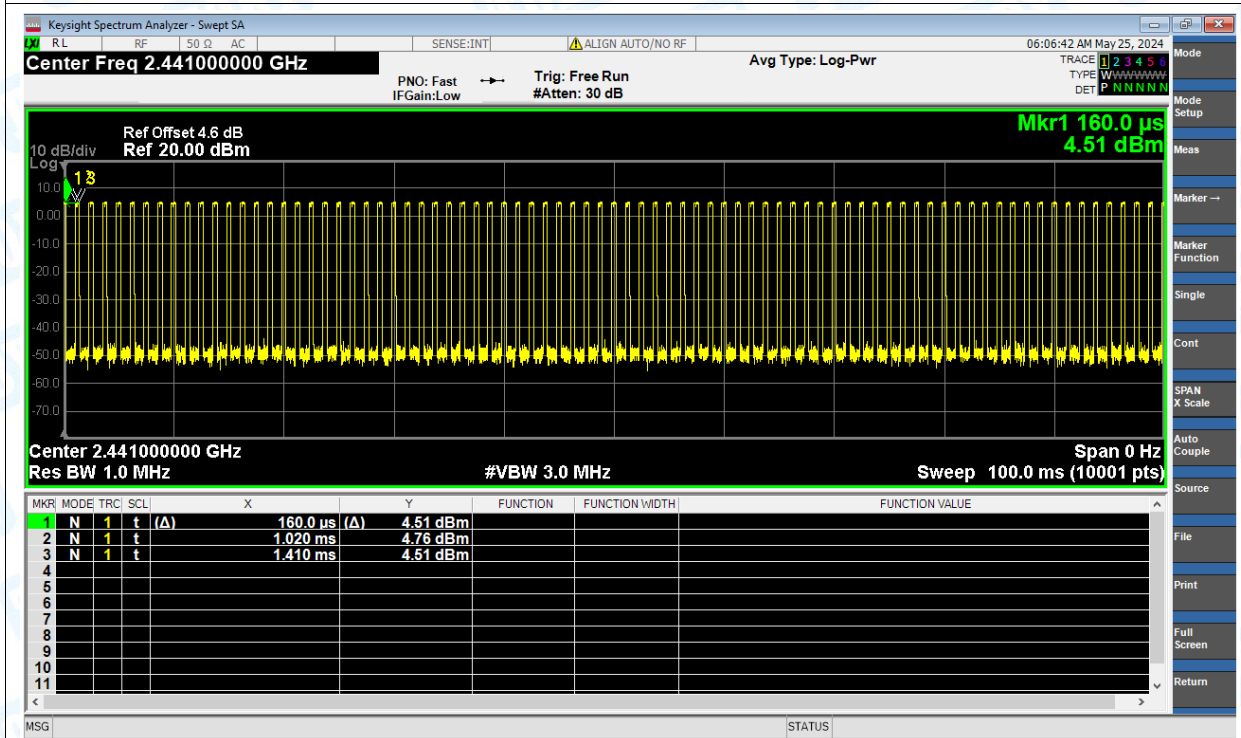
Duty Cycle NVNT 1-DH1 2480MHz Ant1



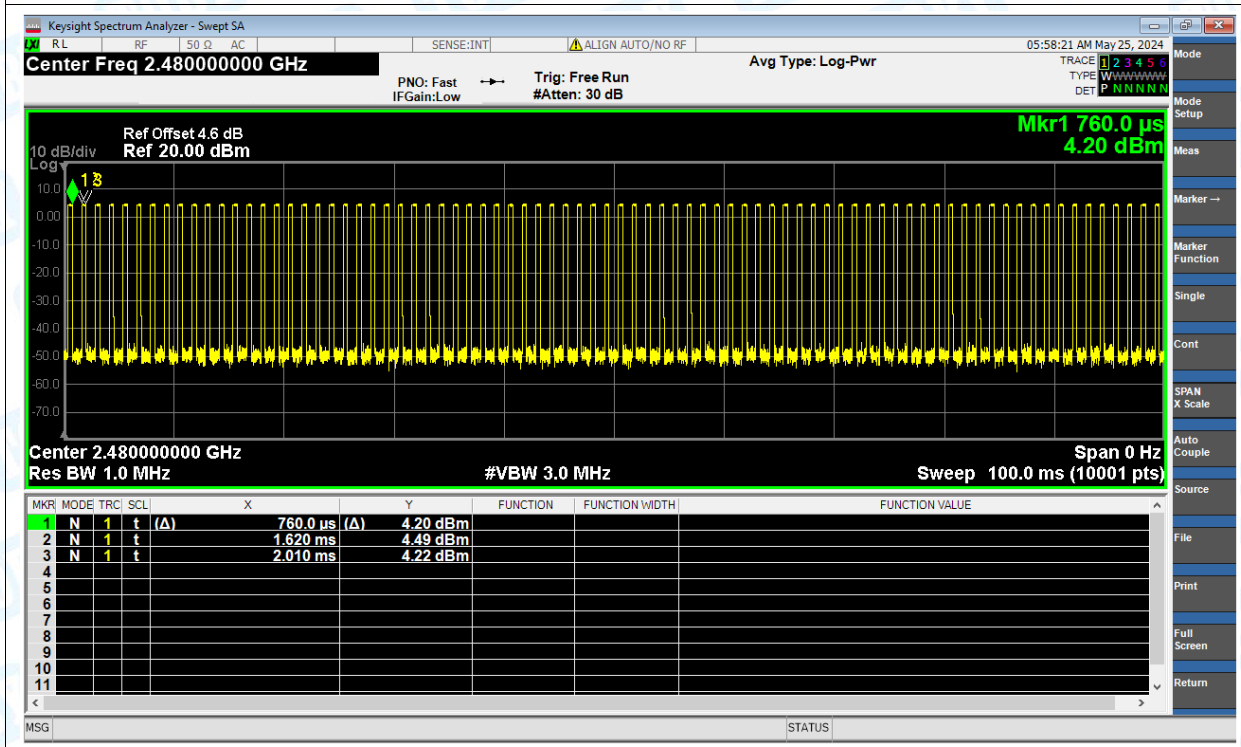
Duty Cycle NVNT 2-DH1 2402MHz Ant1



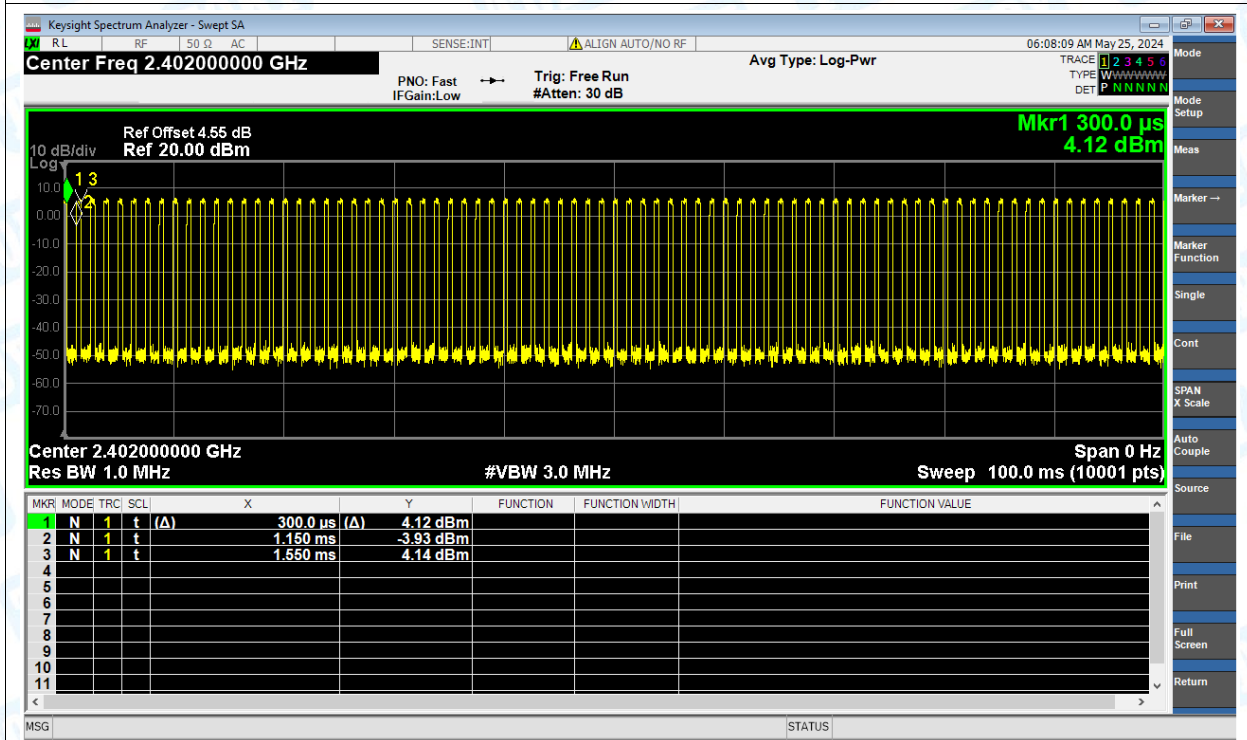
Duty Cycle NVNT 2-DH1 2441MHz Ant1



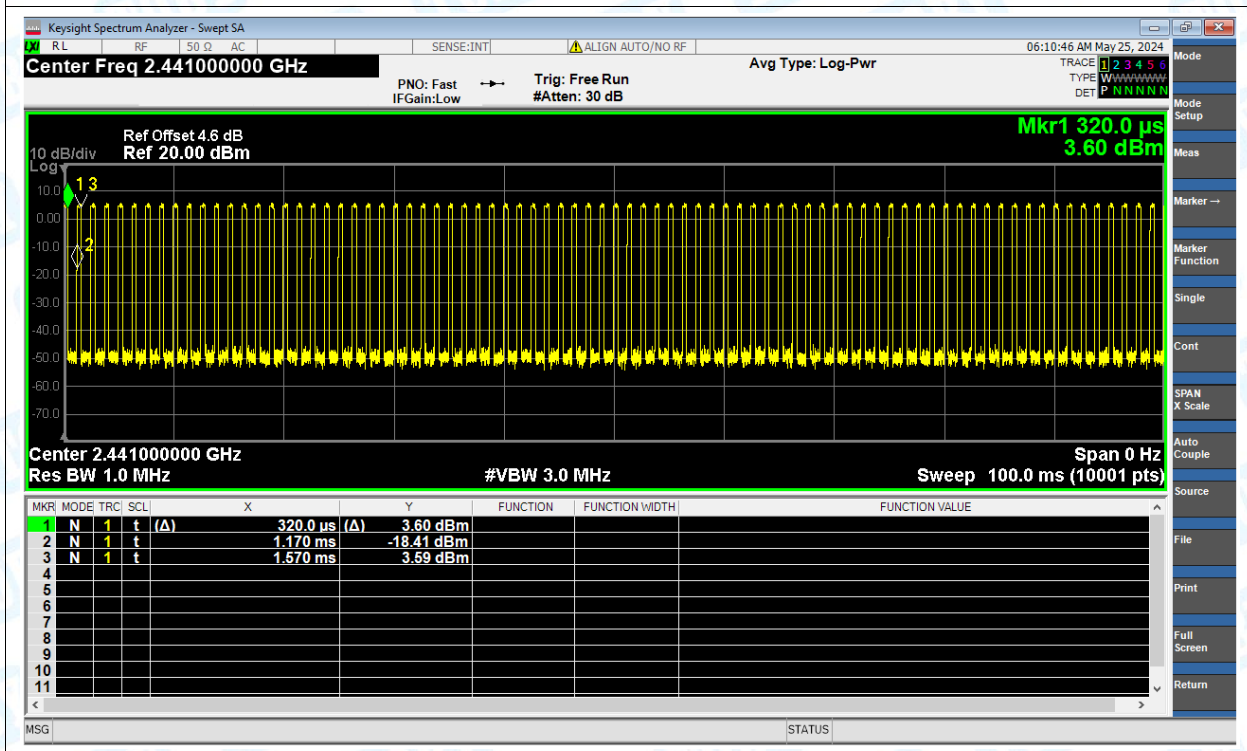
Duty Cycle NVNT 2-DH1 2480MHz Ant1

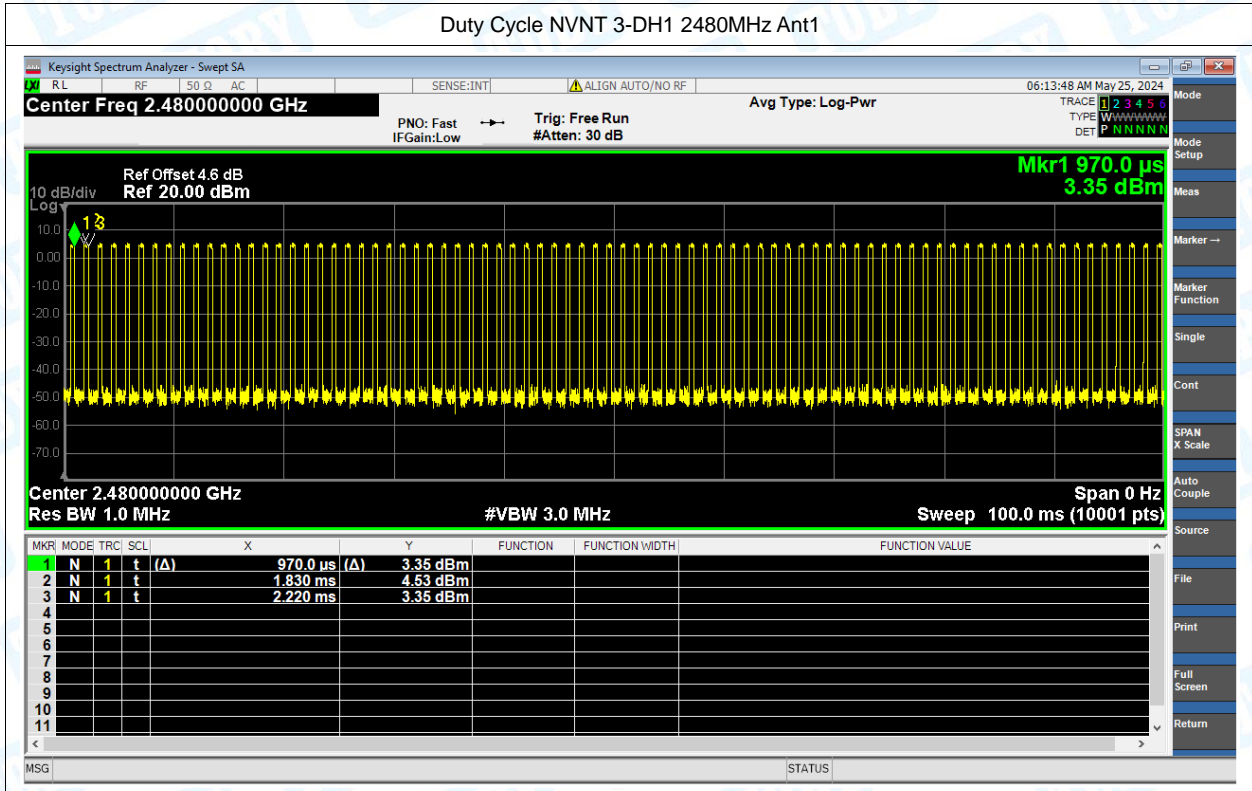


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



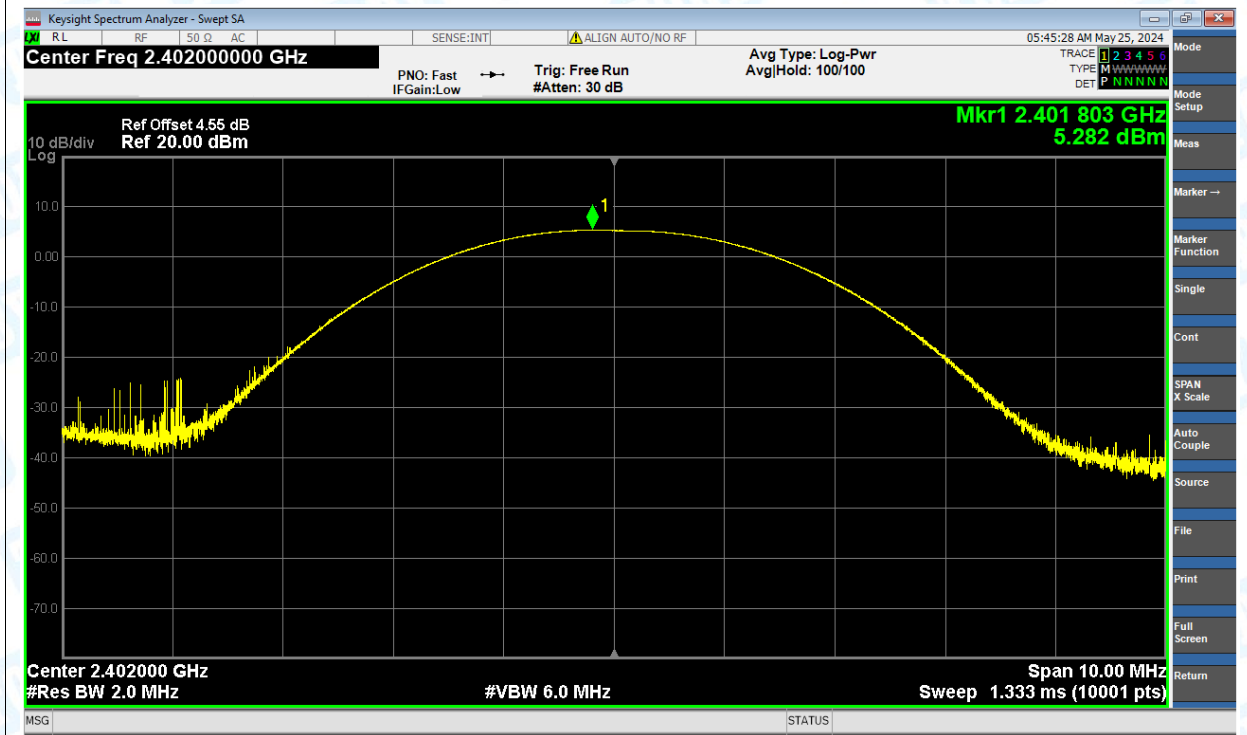


2. Maximum Conducted Output Power

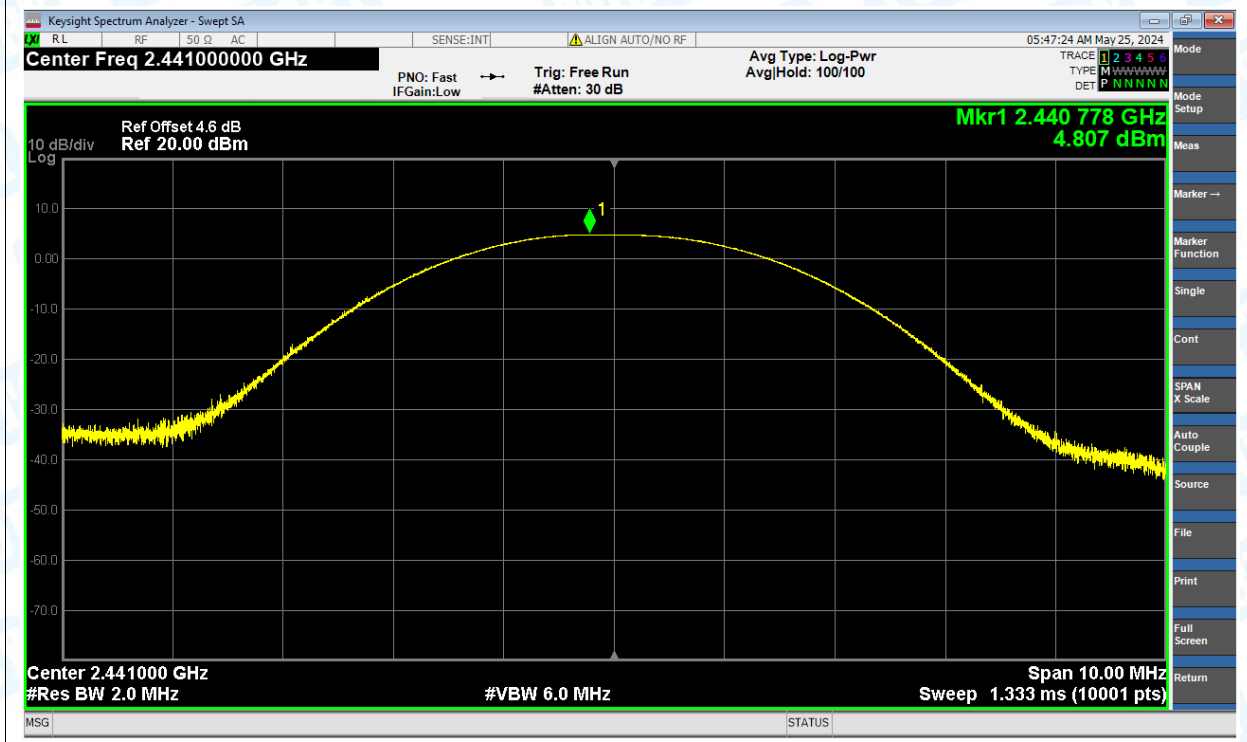
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	5.282	21	Pass
NVNT	1-DH1	2441	Ant1	4.807	21	Pass
NVNT	1-DH1	2480	Ant1	4.591	21	Pass
NVNT	1-DH3	2441	Ant1	4.837	21	Pass
NVNT	1-DH5	2441	Ant1	4.802	21	Pass
NVNT	2-DH1	2402	Ant1	6.143	21	Pass
NVNT	2-DH1	2441	Ant1	5.615	21	Pass
NVNT	2-DH1	2480	Ant1	5.36	21	Pass
NVNT	2-DH3	2441	Ant1	5.627	21	Pass
NVNT	2-DH5	2441	Ant1	5.594	21	Pass
NVNT	3-DH1	2402	Ant1	6.699	21	Pass
NVNT	3-DH1	2441	Ant1	6.166	21	Pass
NVNT	3-DH1	2480	Ant1	5.915	21	Pass
NVNT	3-DH3	2441	Ant1	5.972	21	Pass
NVNT	3-DH5	2441	Ant1	5.942	21	Pass

Test Graphs

Power NVNT 1-DH1 2402MHz Ant1



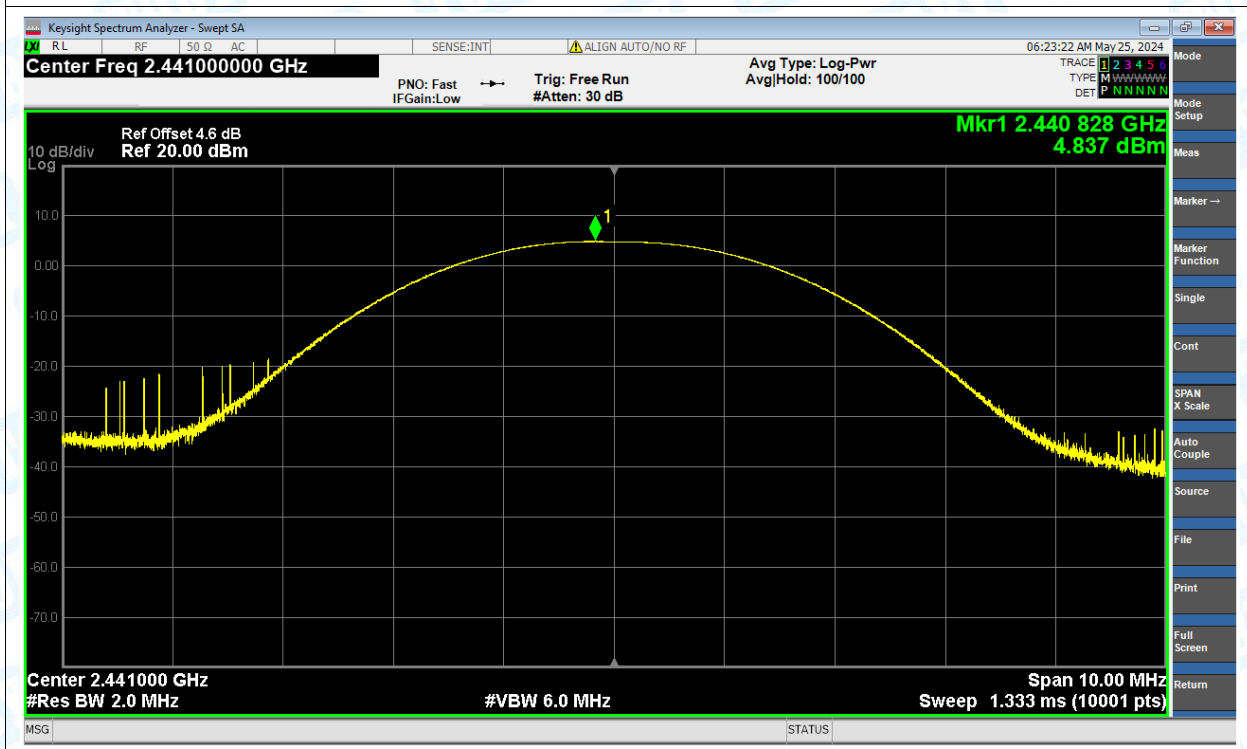
Power NVNT 1-DH1 2441MHz Ant1



Power NVNT 1-DH1 2480MHz Ant1



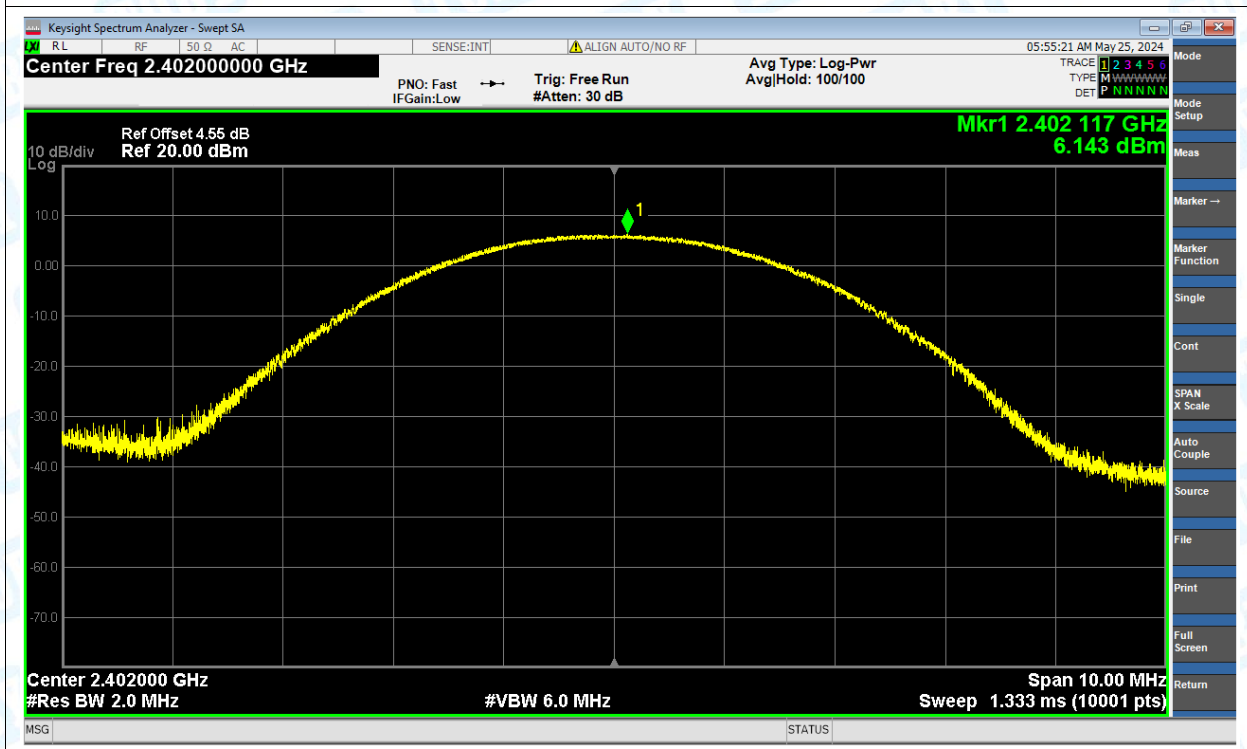
Power NVNT 1-DH3 2441MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



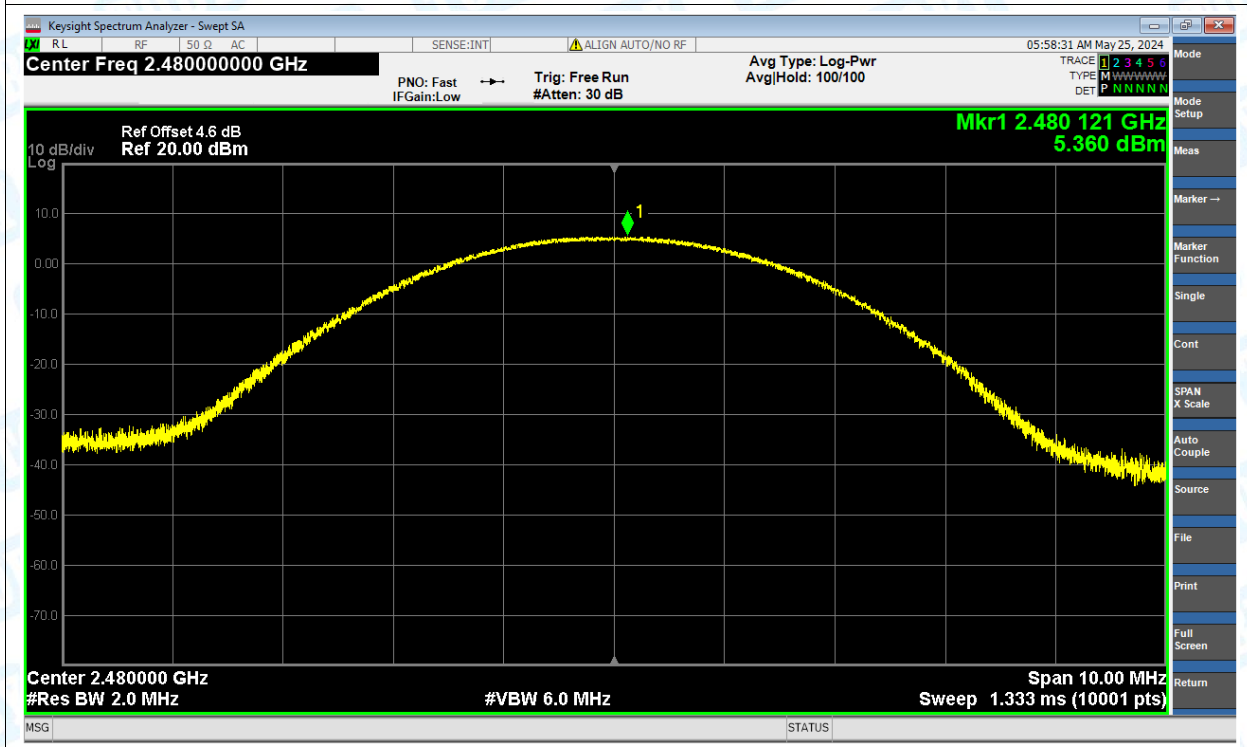
Power NVNT 2-DH1 2402MHz Ant1



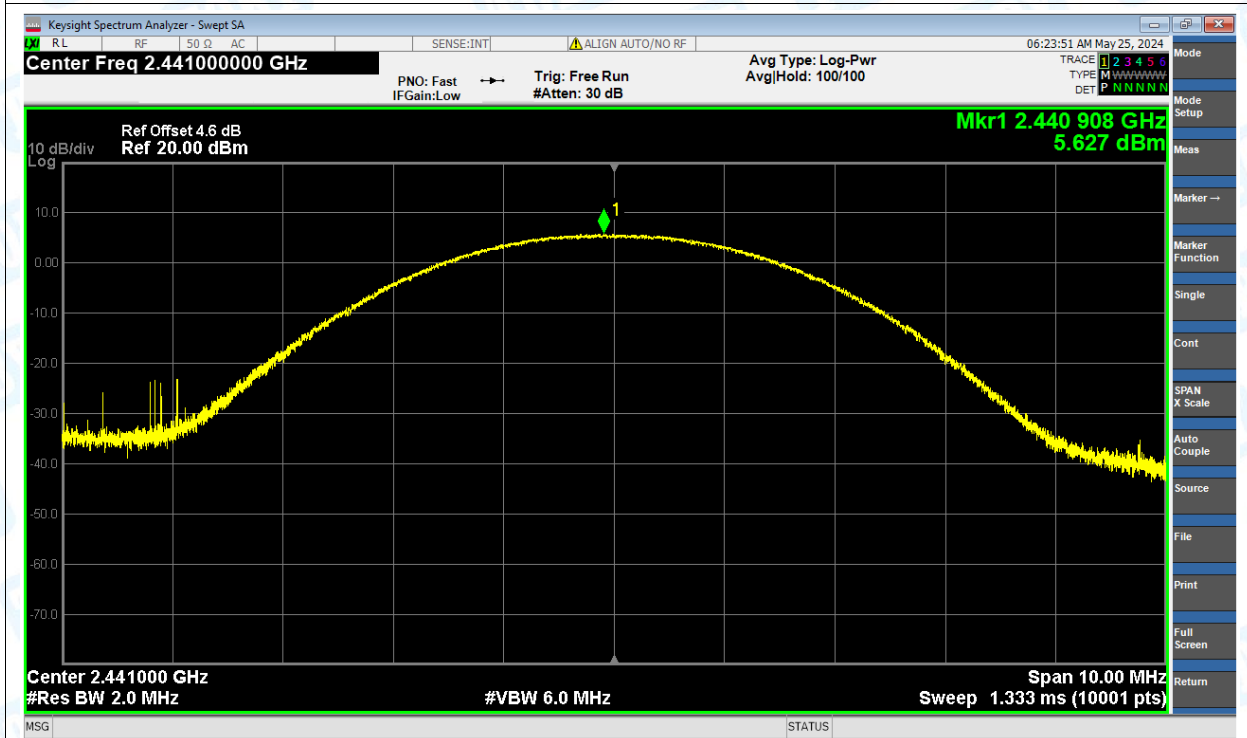
Power NVNT 2-DH1 2441MHz Ant1



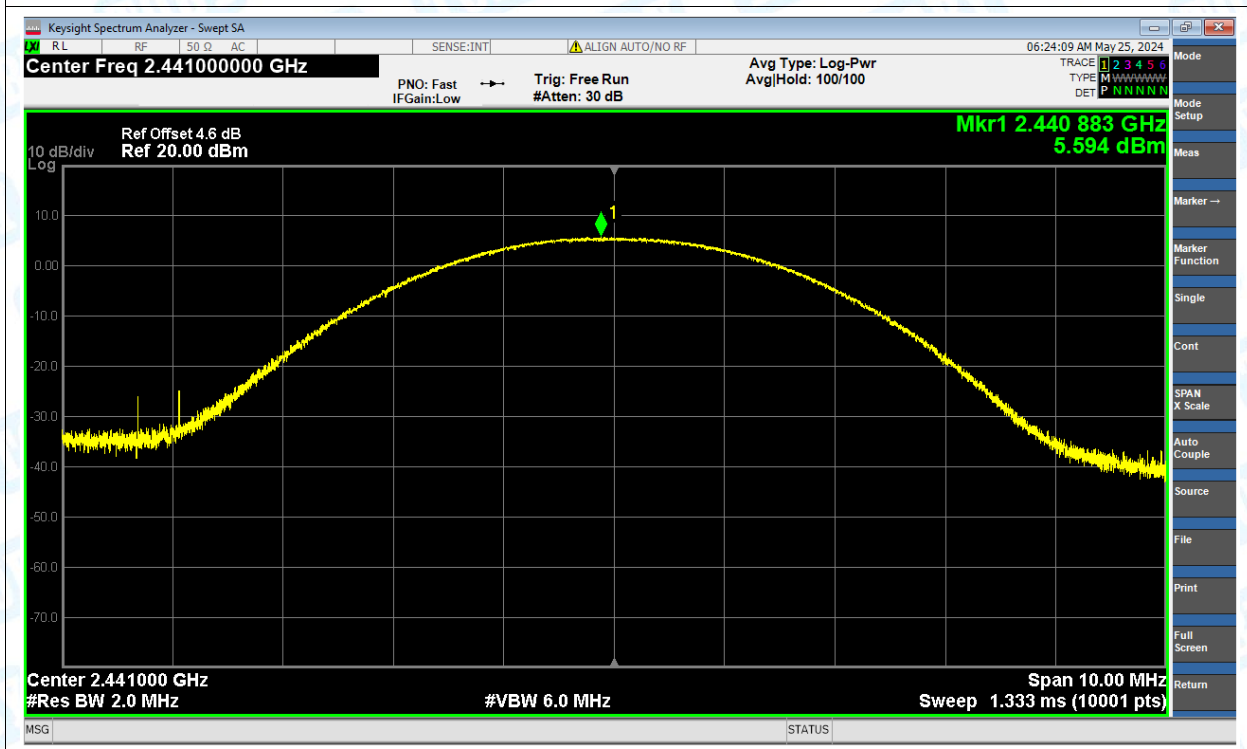
Power NVNT 2-DH1 2480MHz Ant1



Power NVNT 2-DH3 2441MHz Ant1



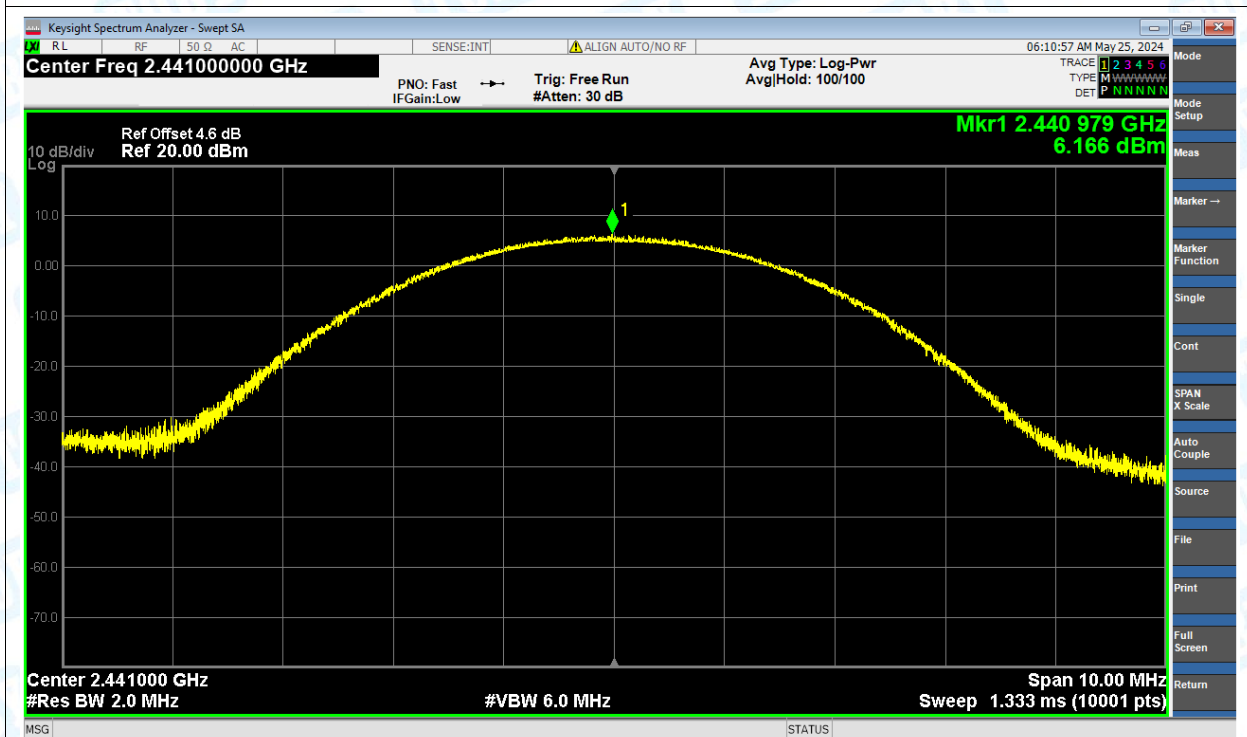
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 3-DH1 2402MHz Ant1



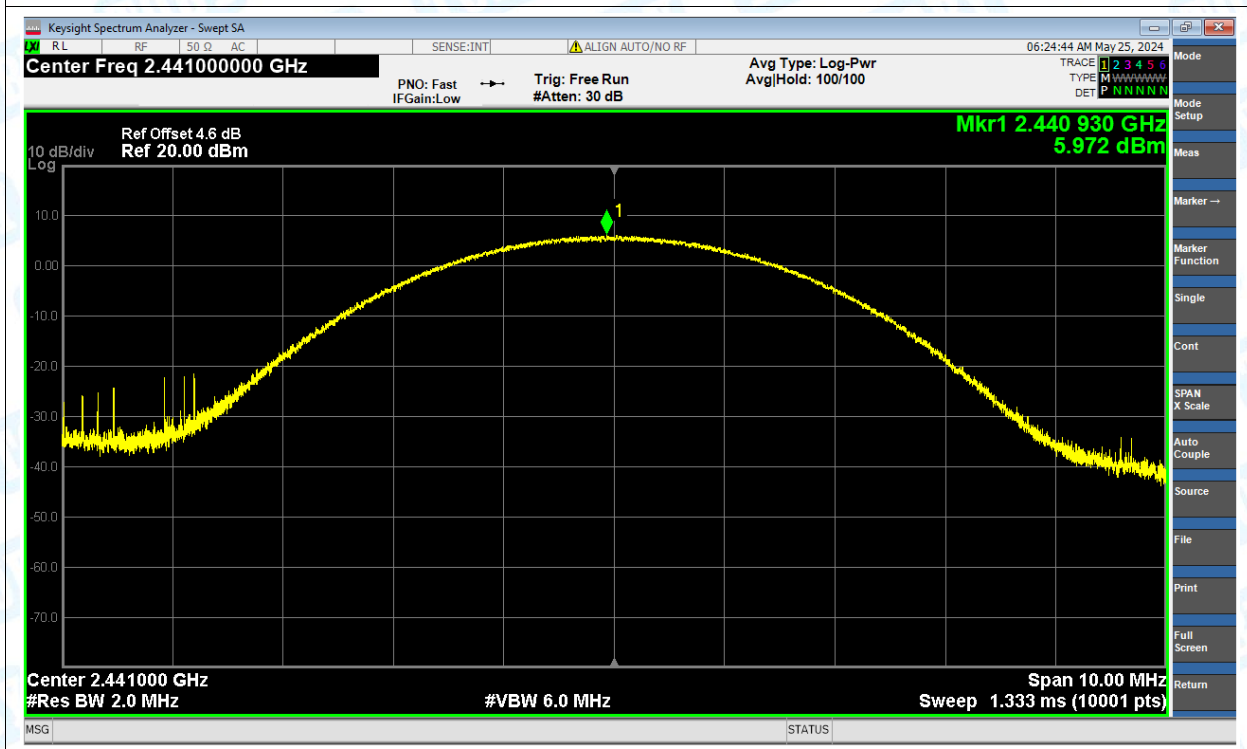
Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



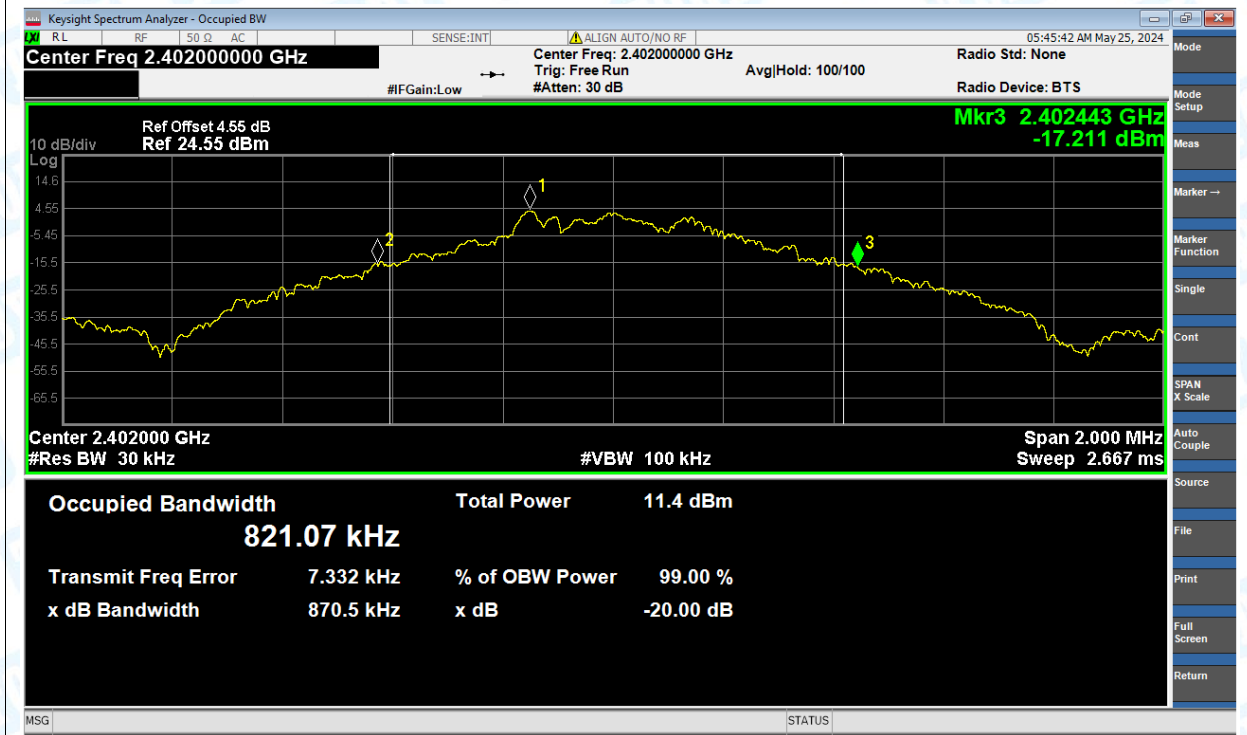


3. -20dB Bandwidth

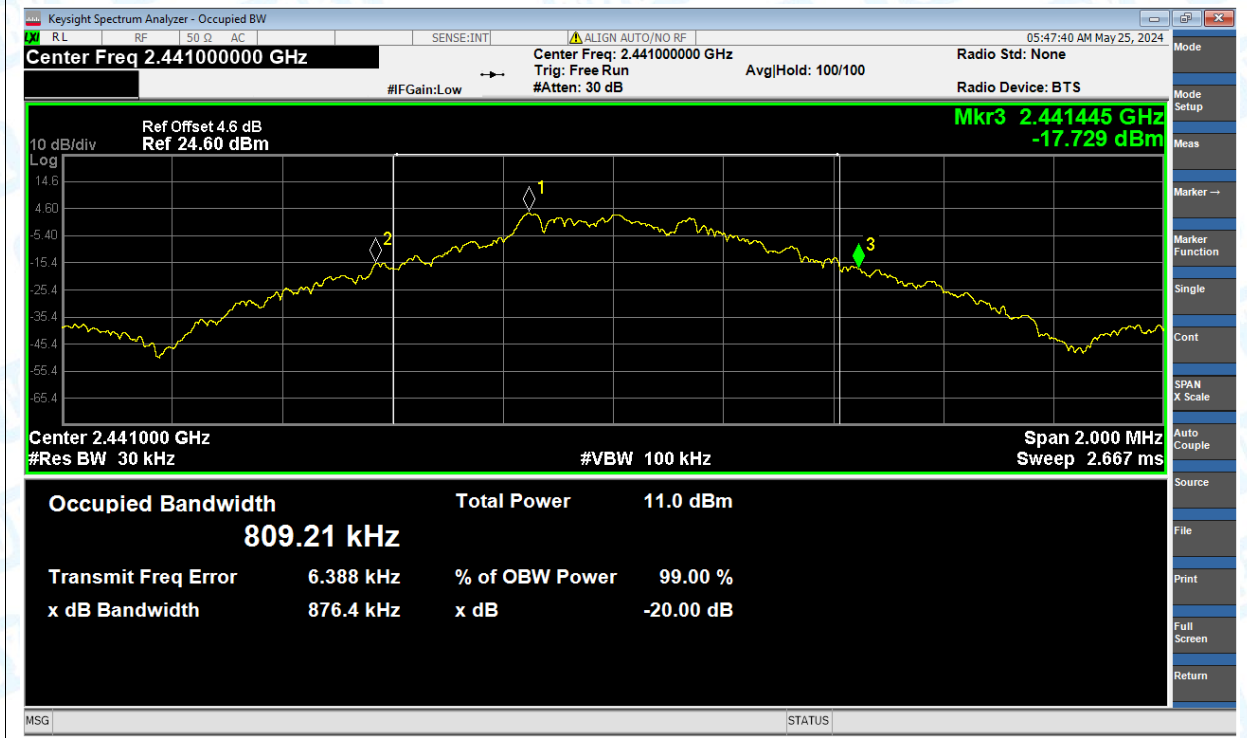
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.88	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.24	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.23	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.23	0	Pass
NVNT	3-DH1	2480	Ant1	1.23	0	Pass

Test Graphs

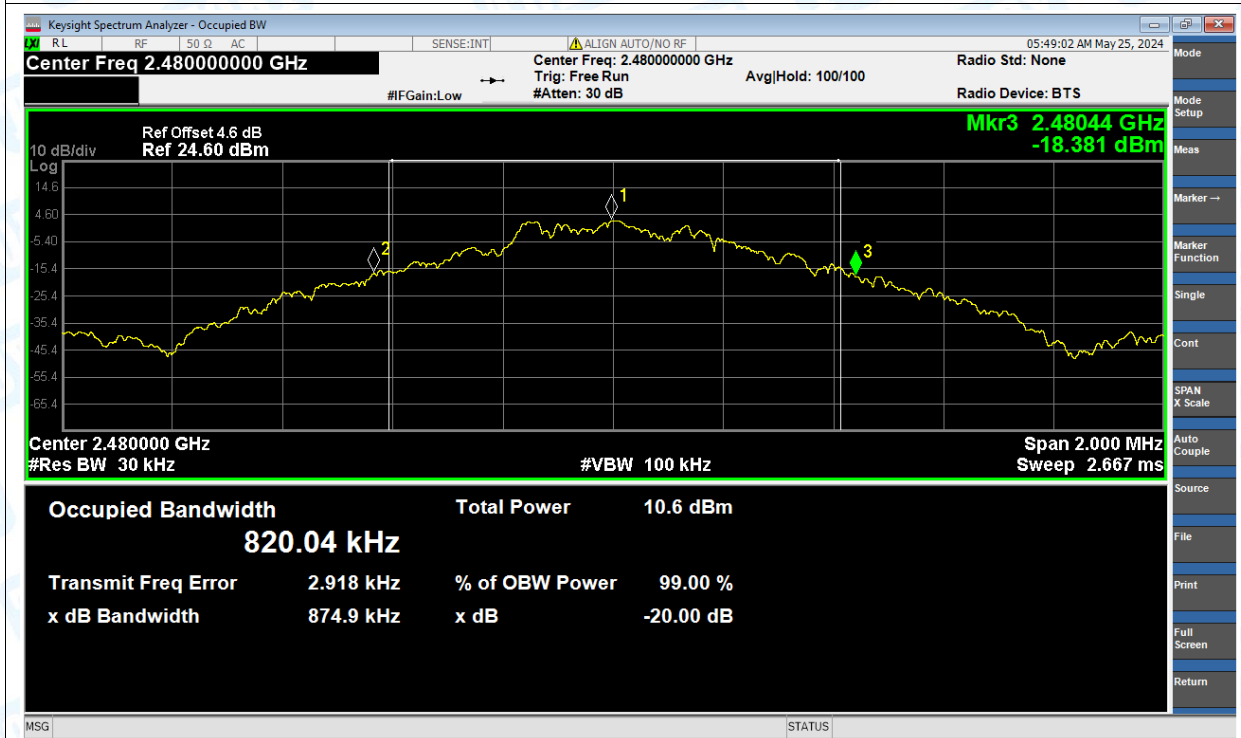
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



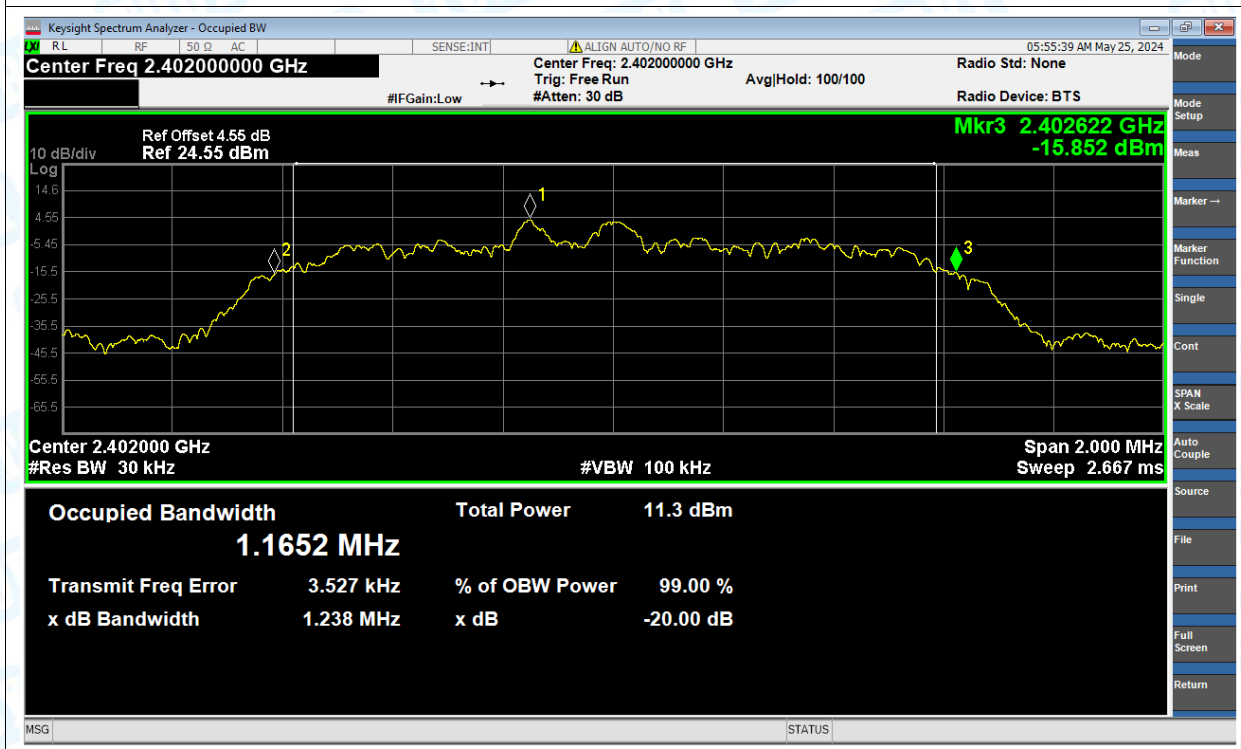
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



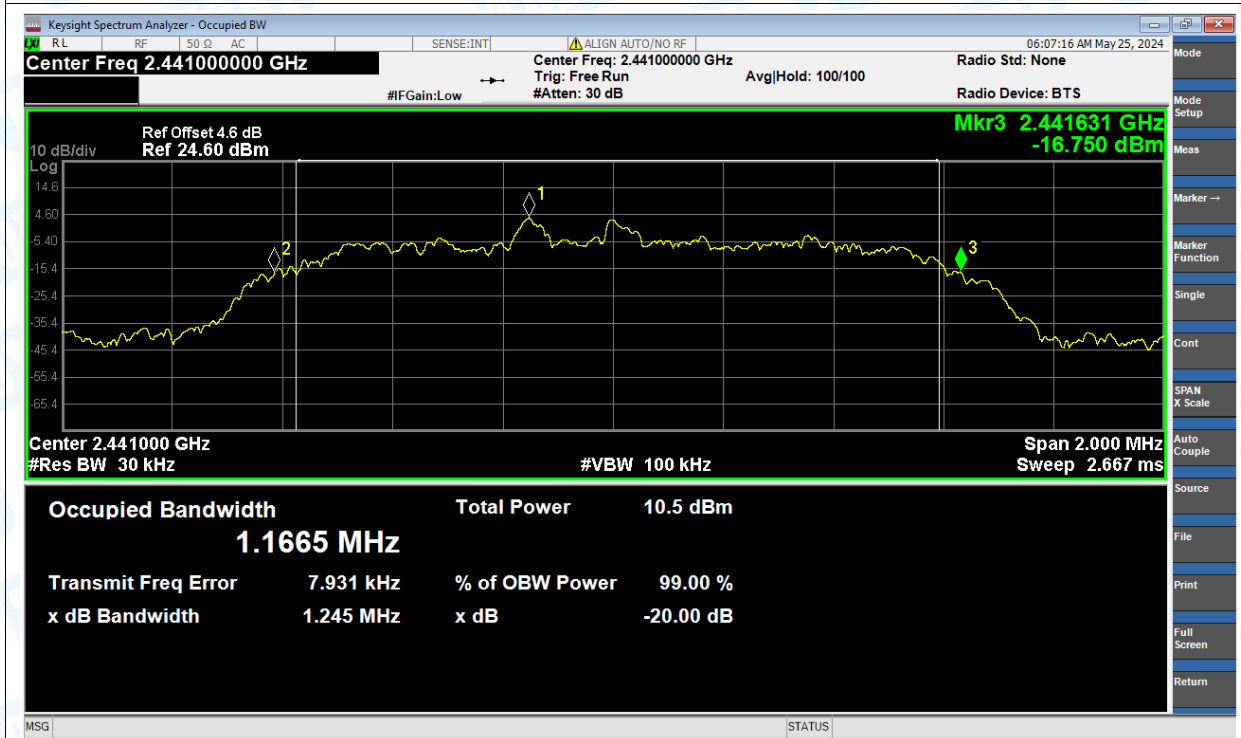
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



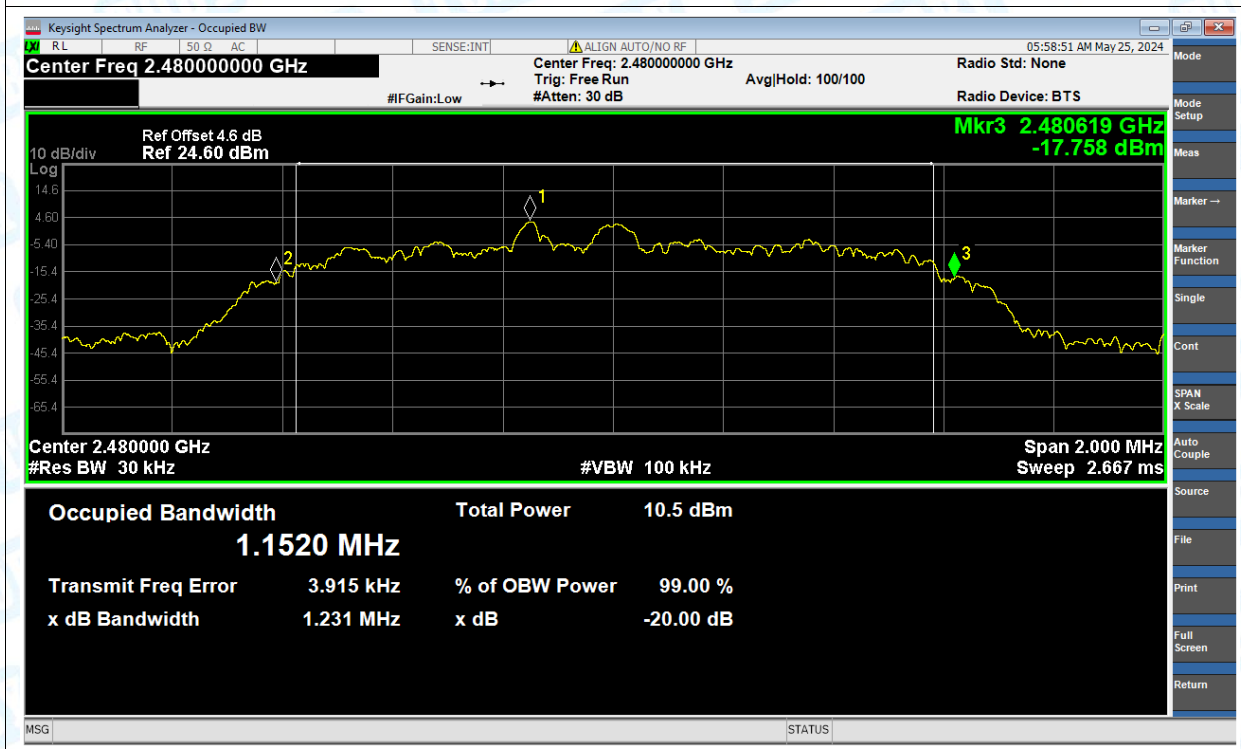
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



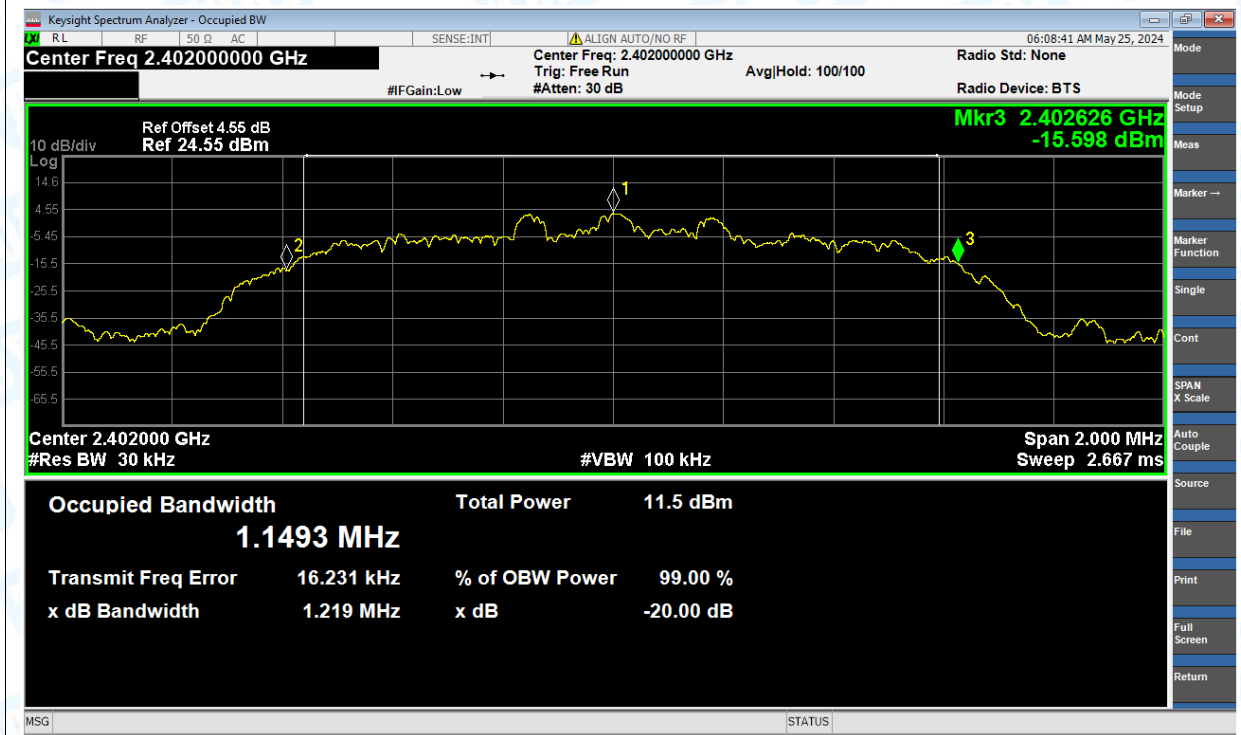
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



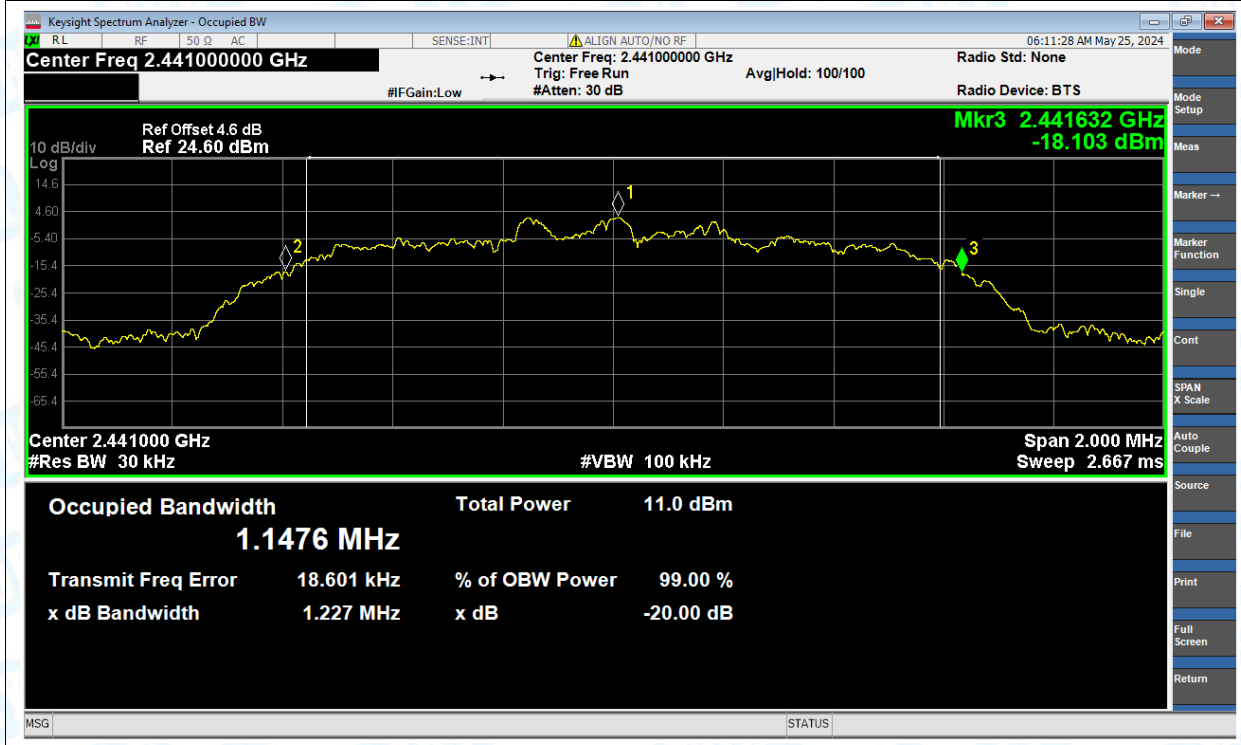
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

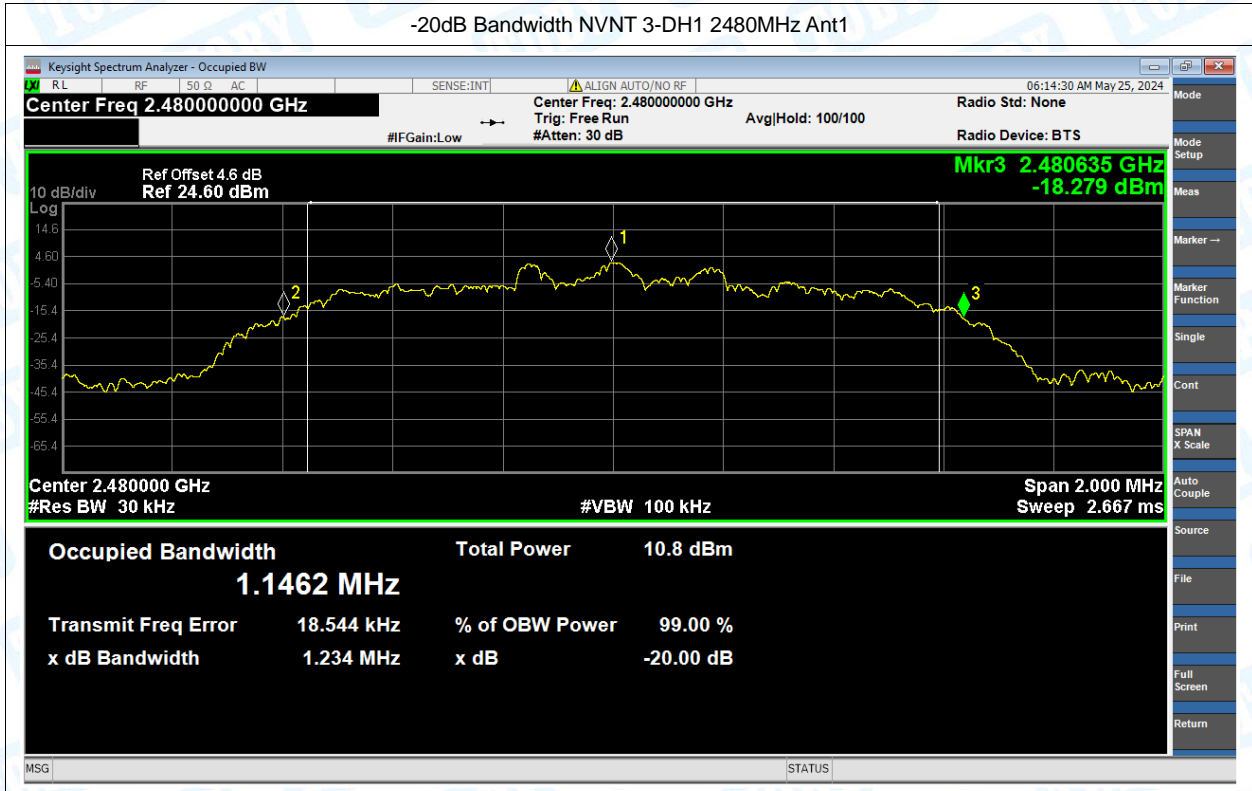


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



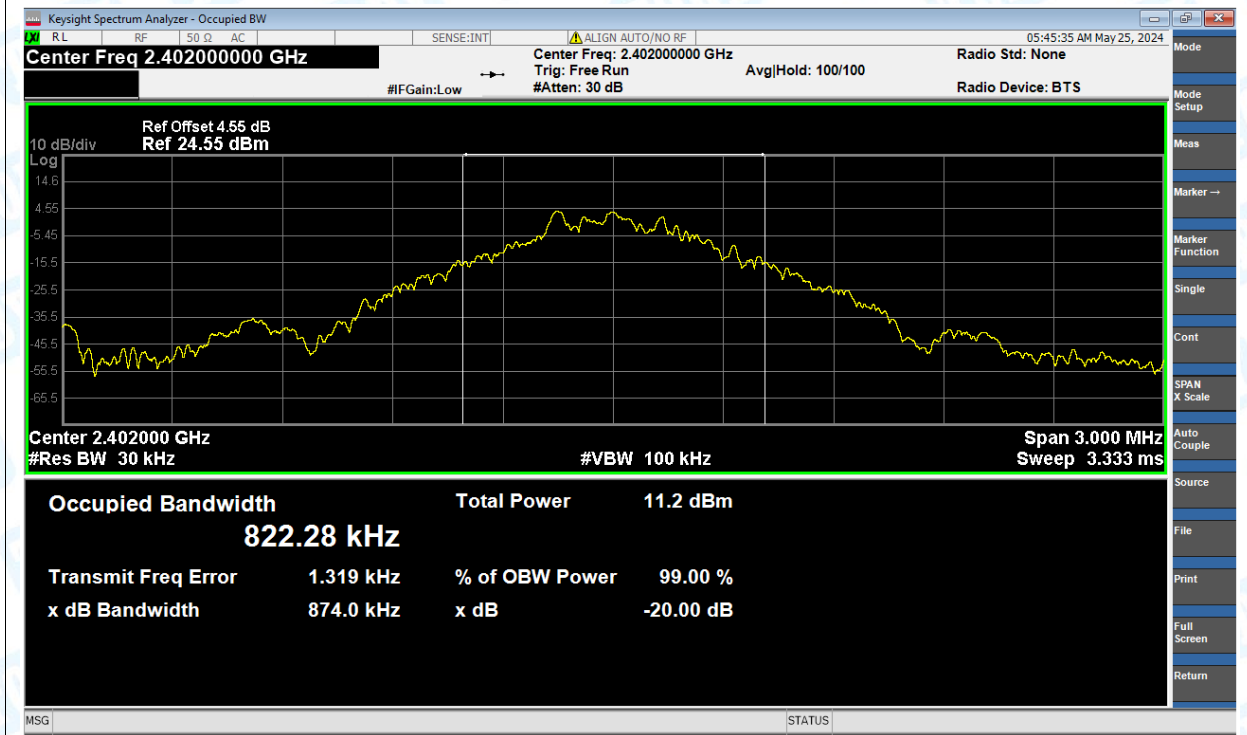


4. Occupied Channel Bandwidth

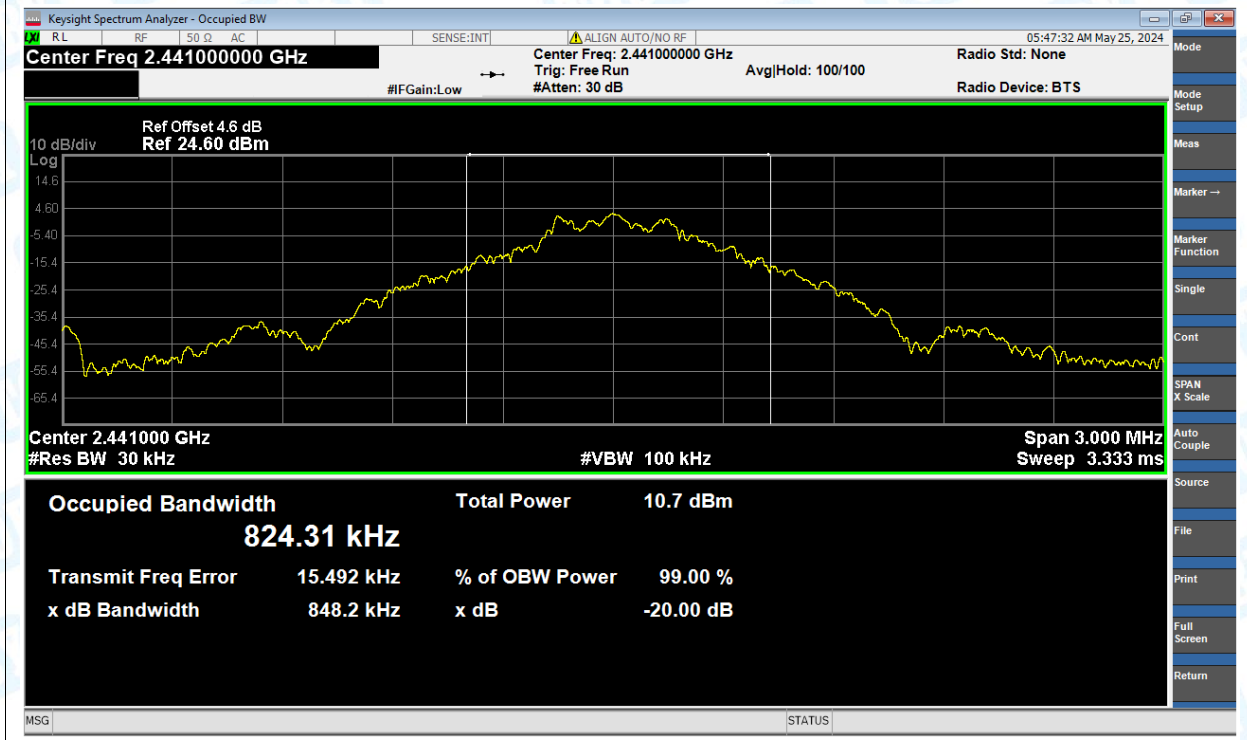
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.822
NVNT	1-DH1	2441	Ant1	0.824
NVNT	1-DH1	2480	Ant1	0.823
NVNT	2-DH1	2402	Ant1	1.153
NVNT	2-DH1	2441	Ant1	1.167
NVNT	2-DH1	2480	Ant1	1.164
NVNT	3-DH1	2402	Ant1	1.162
NVNT	3-DH1	2441	Ant1	1.143
NVNT	3-DH1	2480	Ant1	1.128

Test Graphs

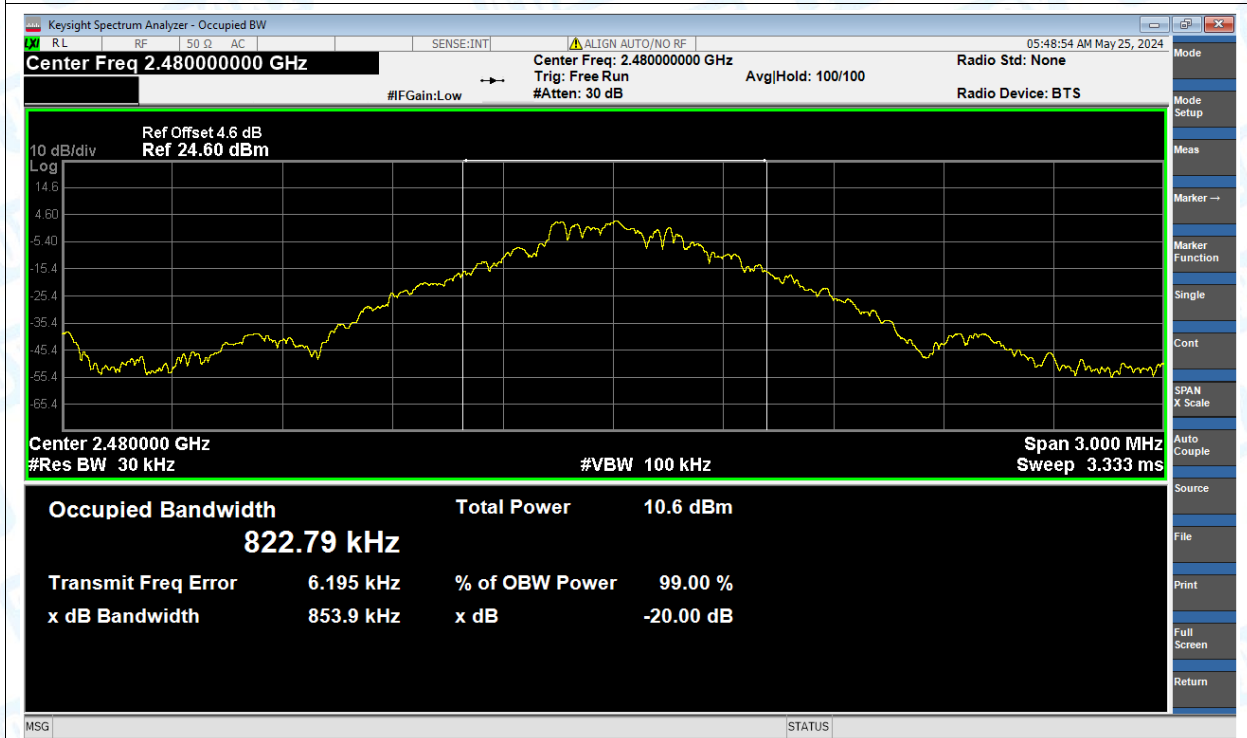
OBW NVNT 1-DH1 2402MHz Ant1



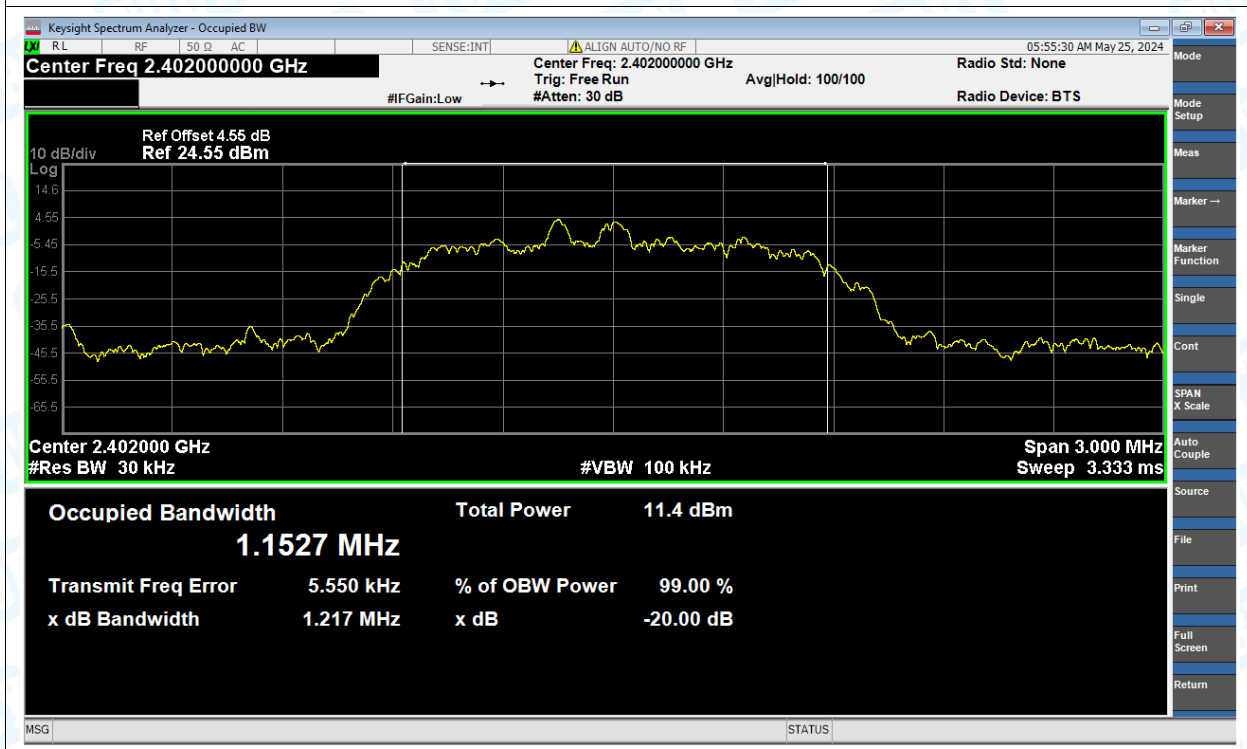
OBW NVNT 1-DH1 2441MHz Ant1



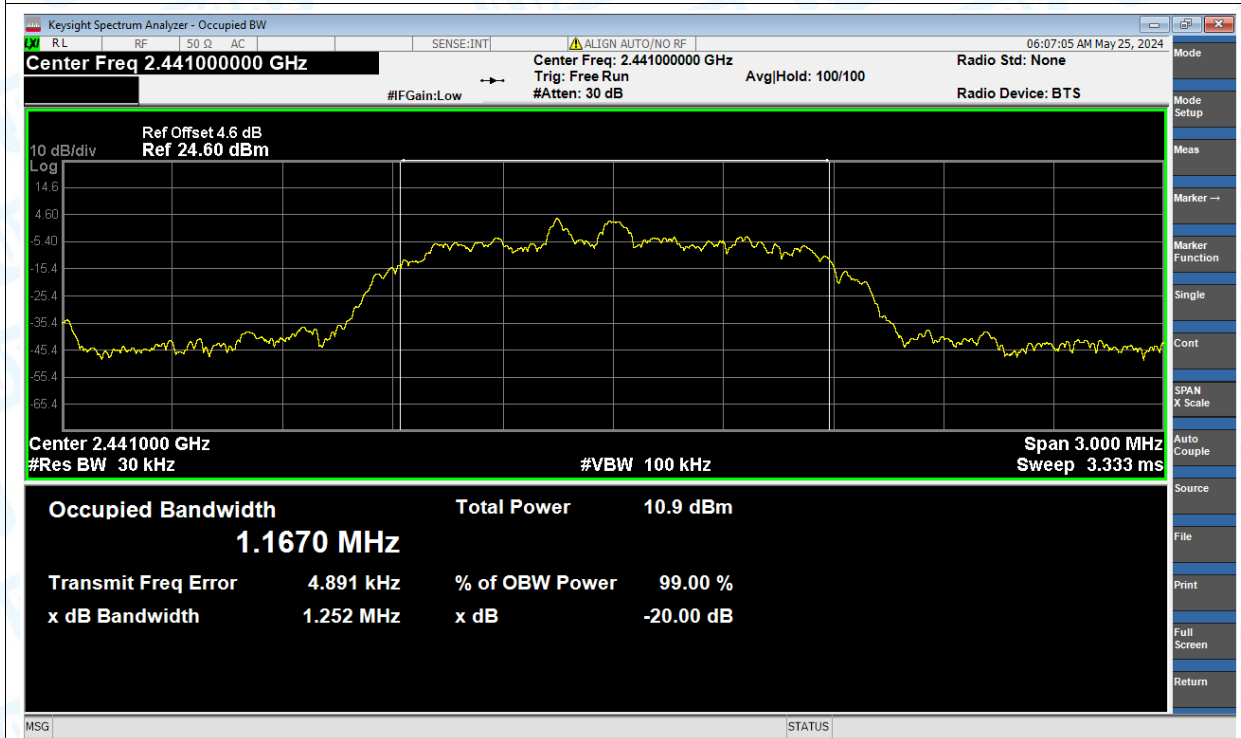
OBW NVNT 1-DH1 2480MHz Ant1



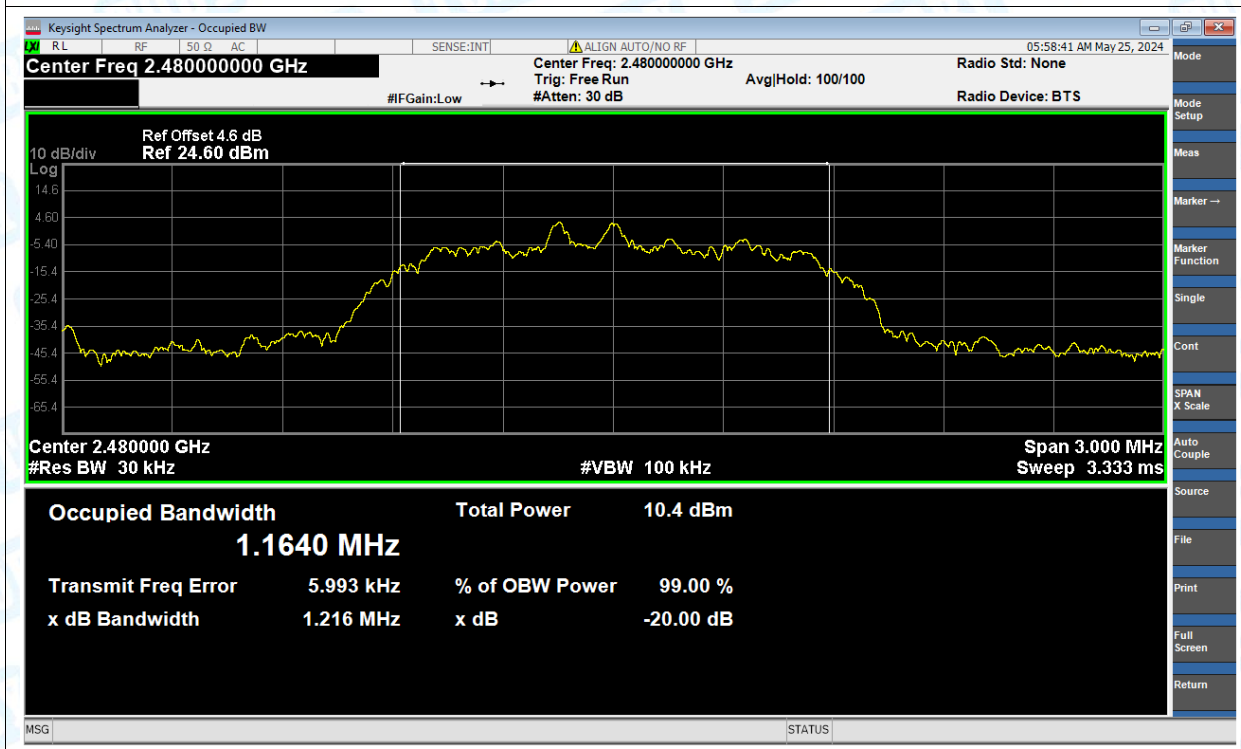
OBW NVNT 2-DH1 2402MHz Ant1



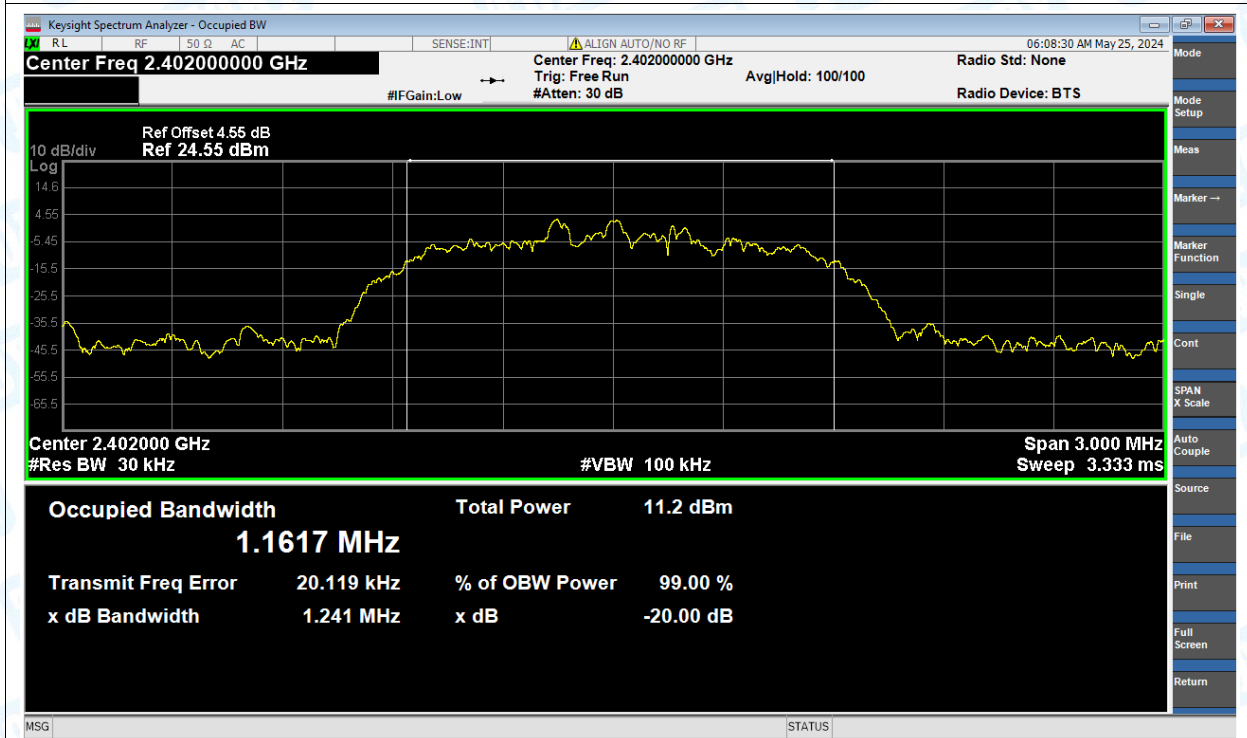
OBW NVNT 2-DH1 2441MHz Ant1



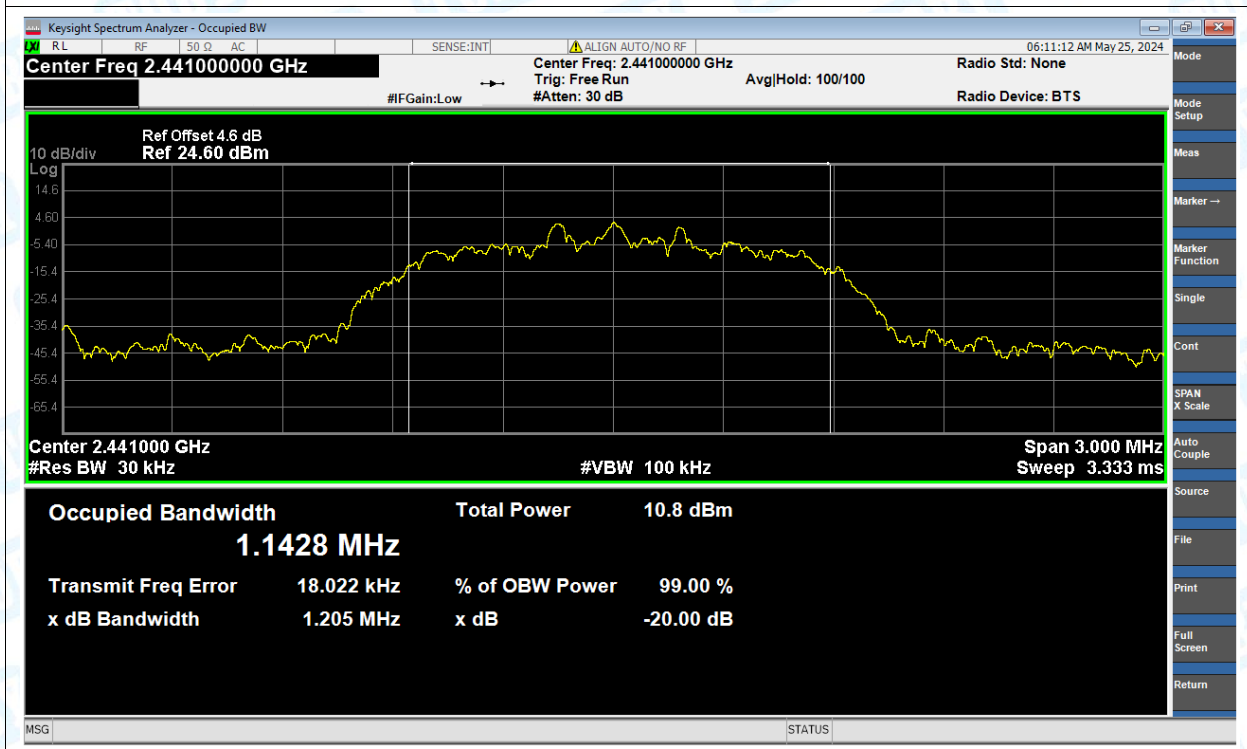
OBW NVNT 2-DH1 2480MHz Ant1

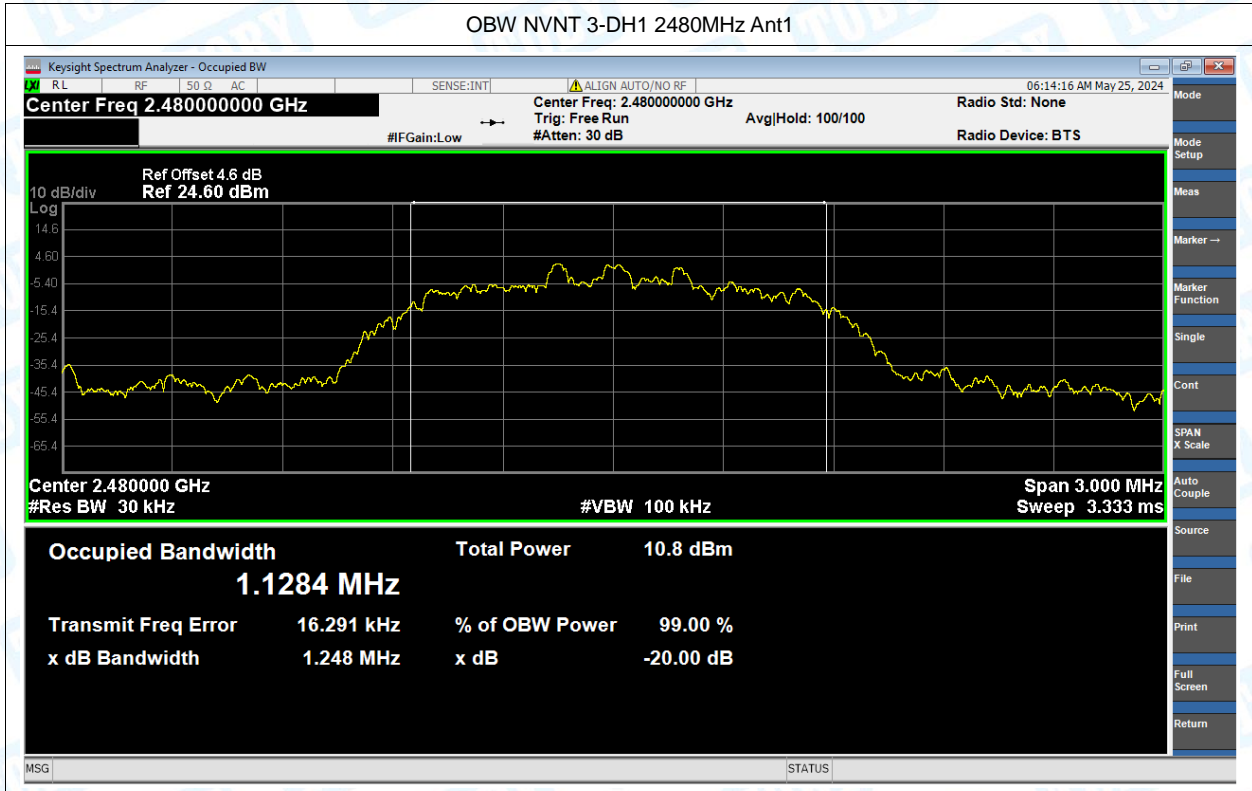


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1





5. Band Edge

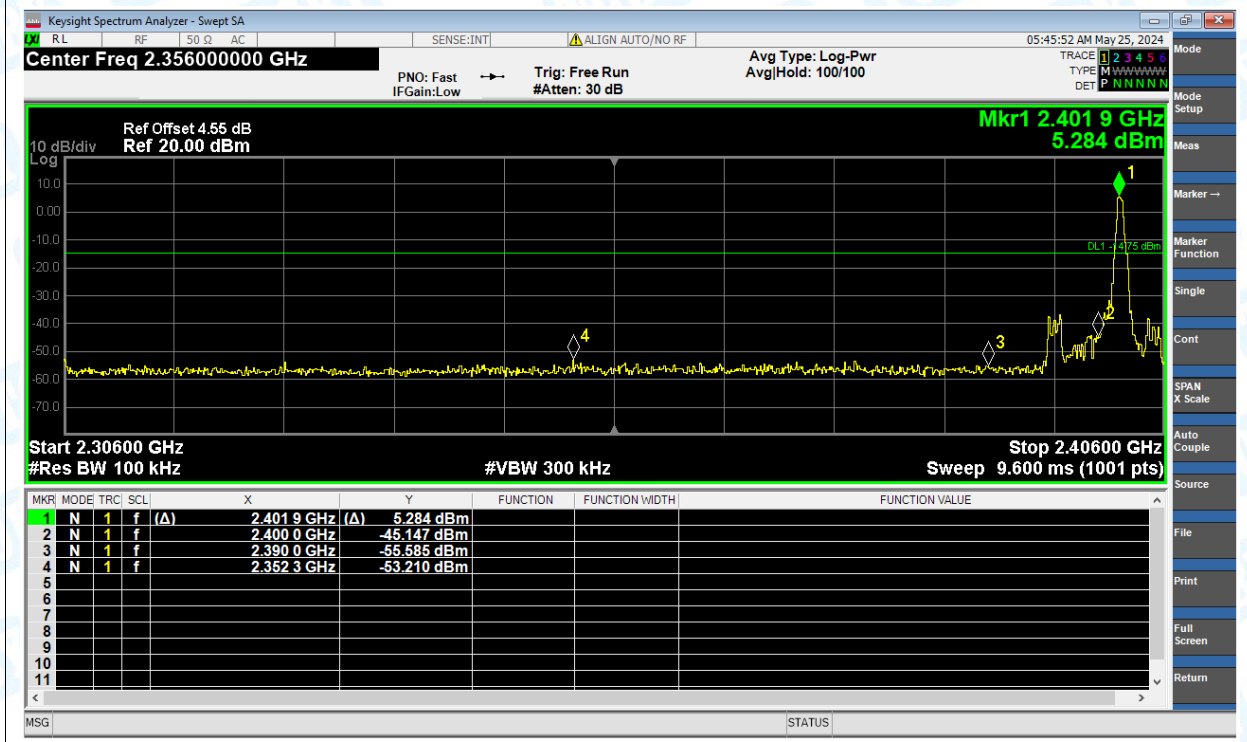
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-58.46	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-46.46	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-58.45	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-49.58	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-58.46	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-45.8	-20	Pass

Test Graphs

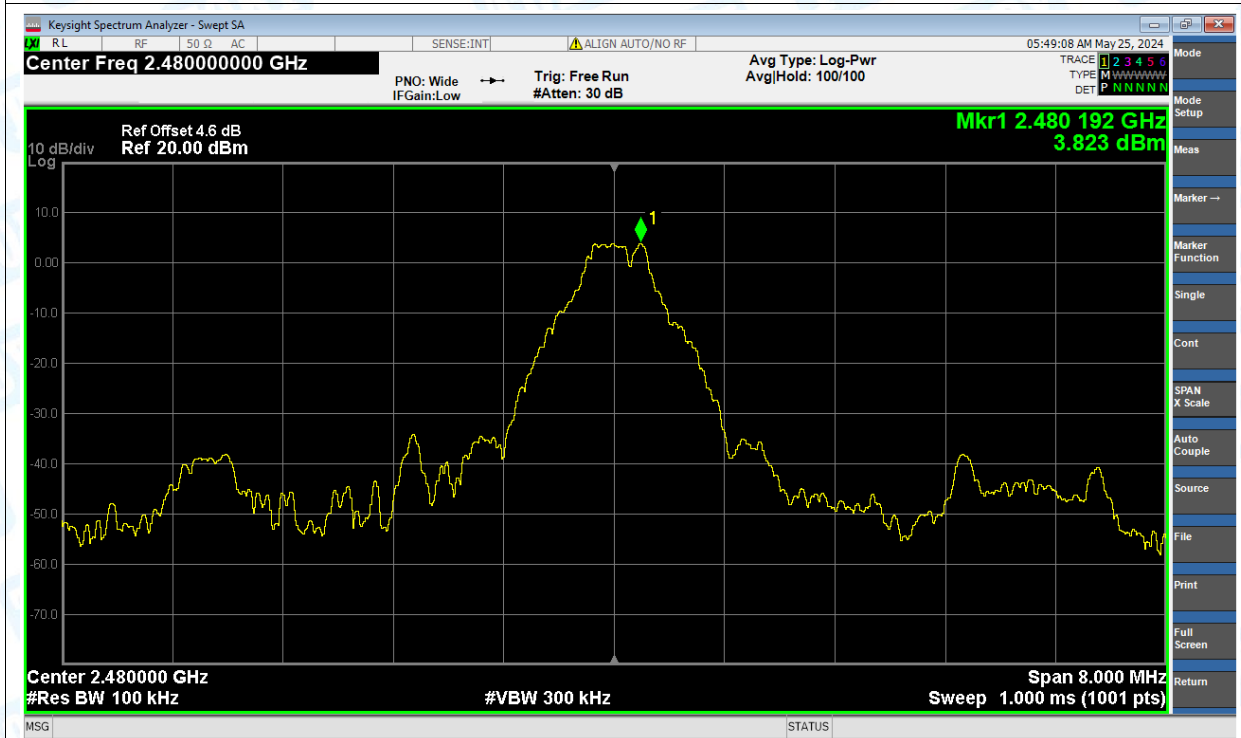
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



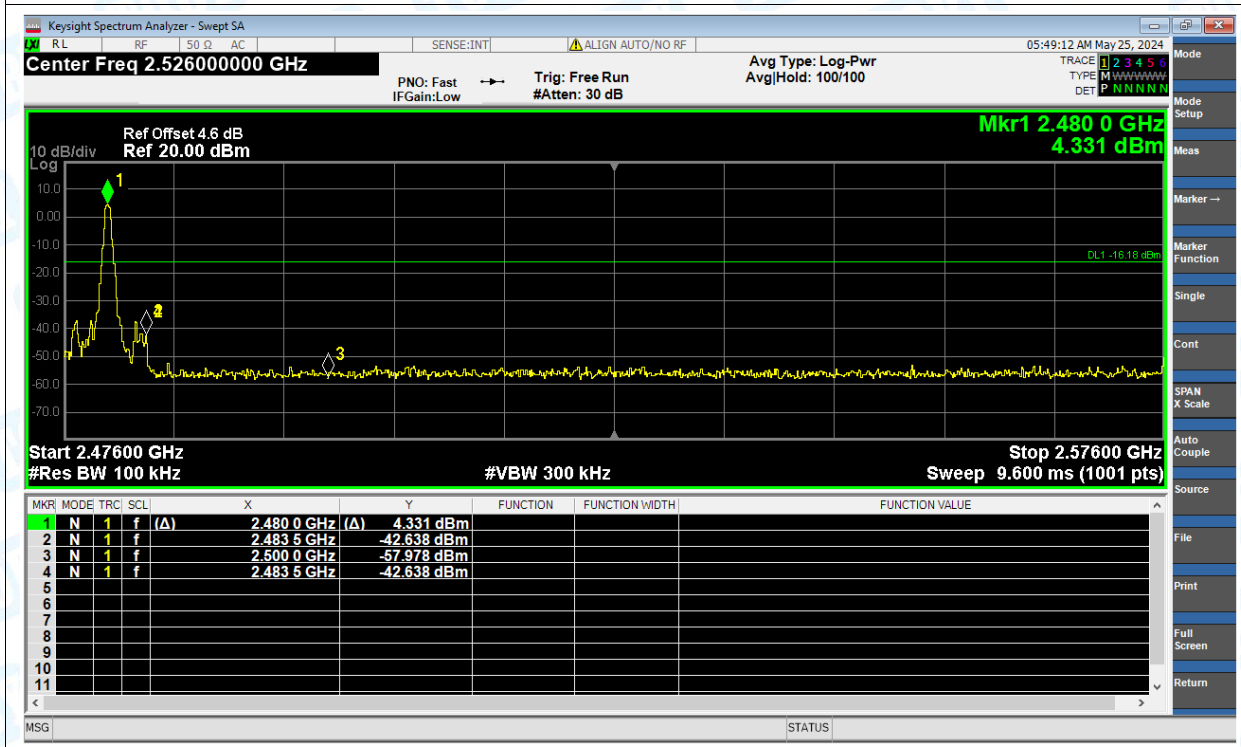
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



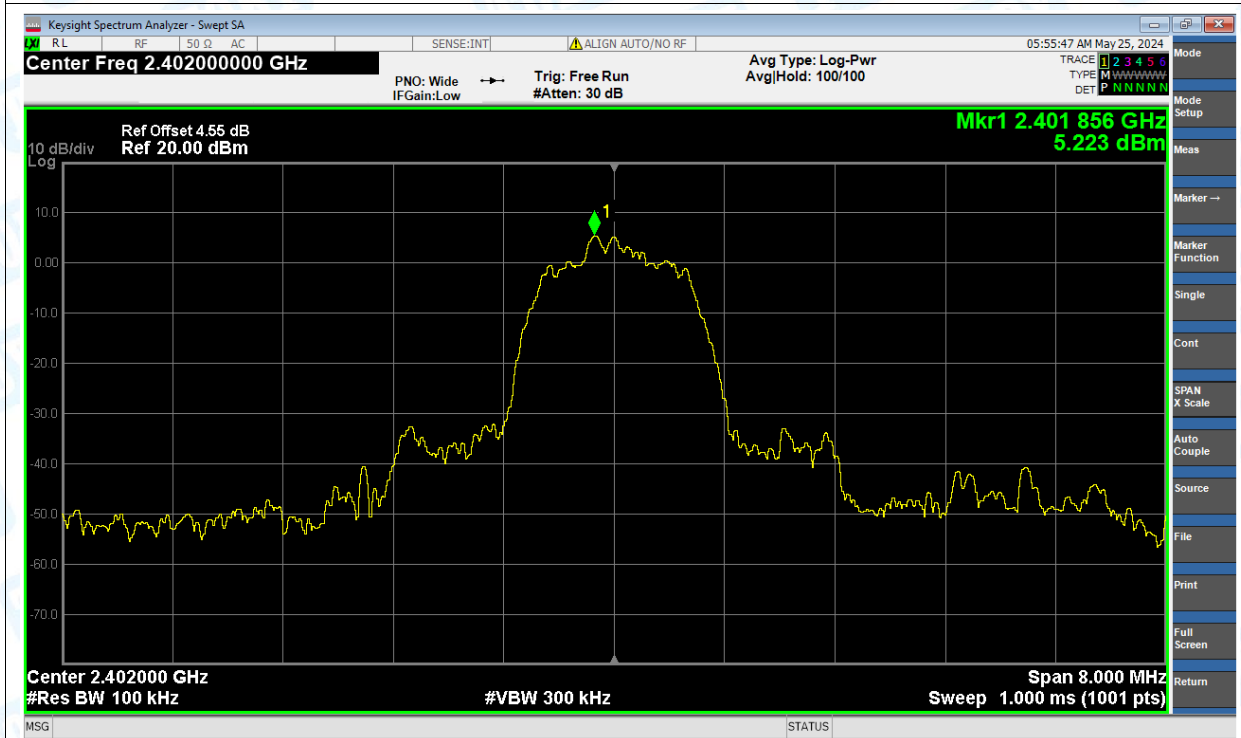
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



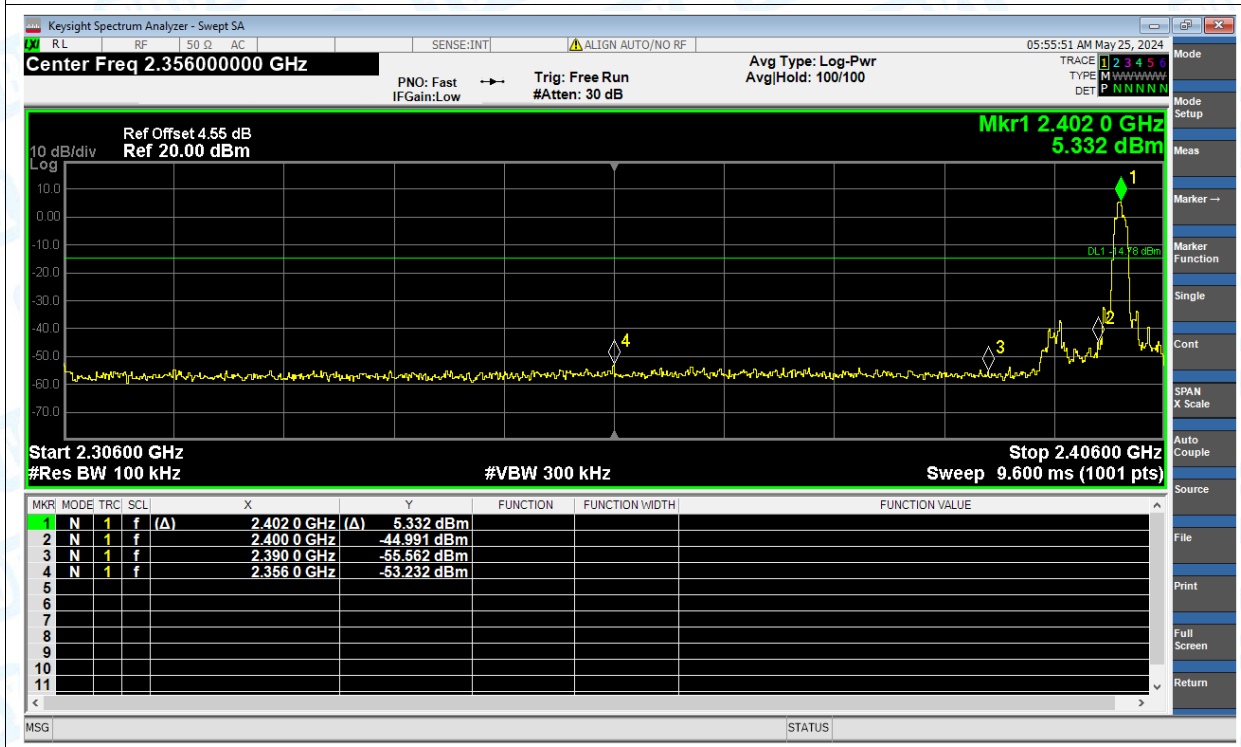
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



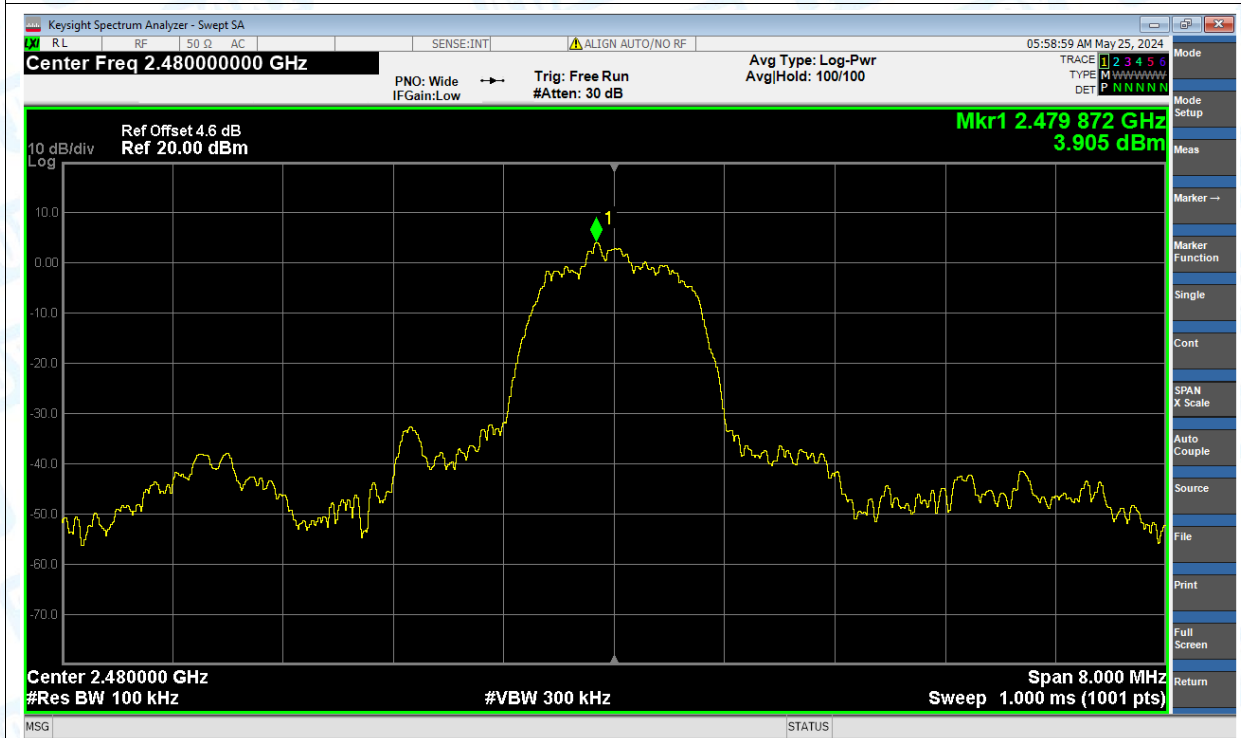
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



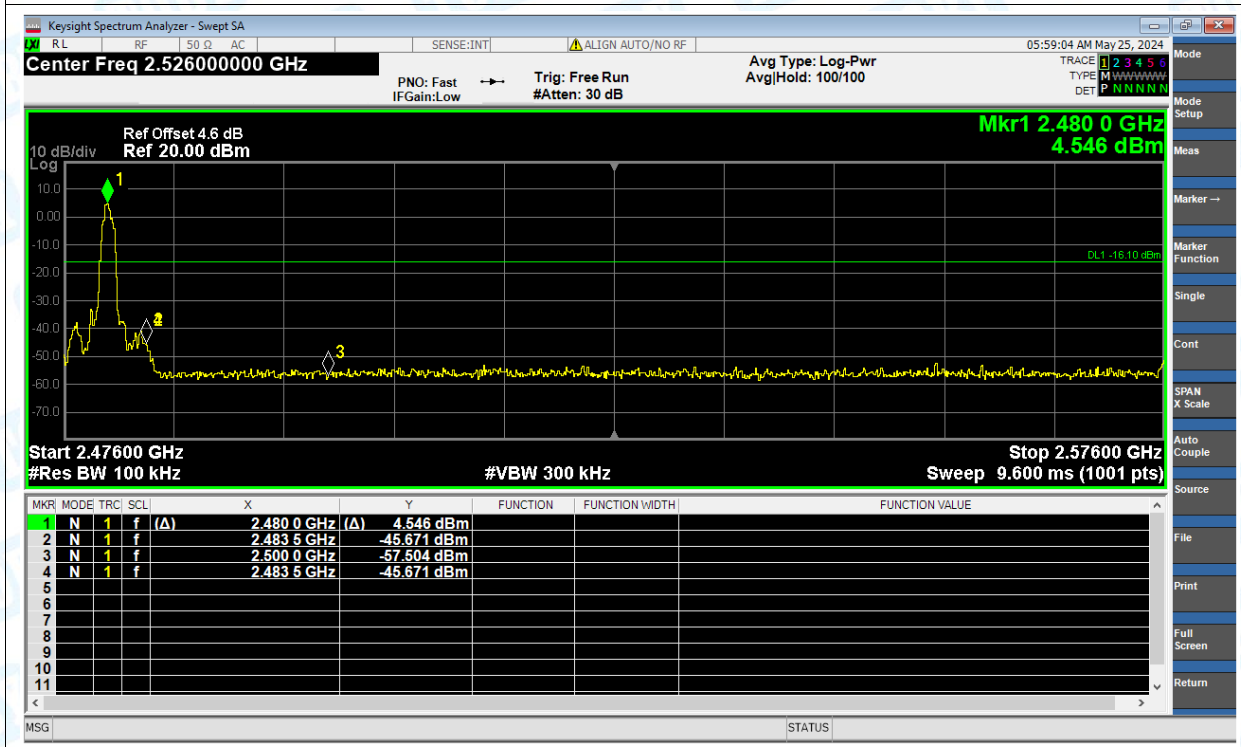
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



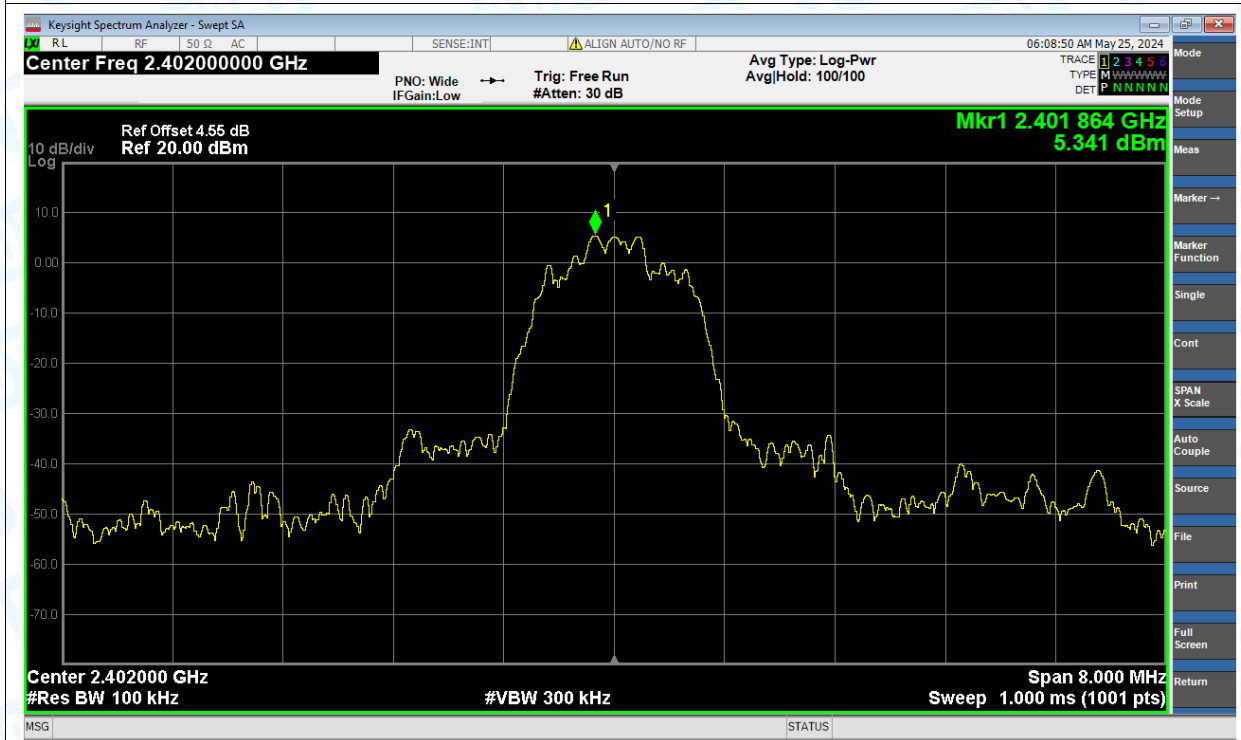
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



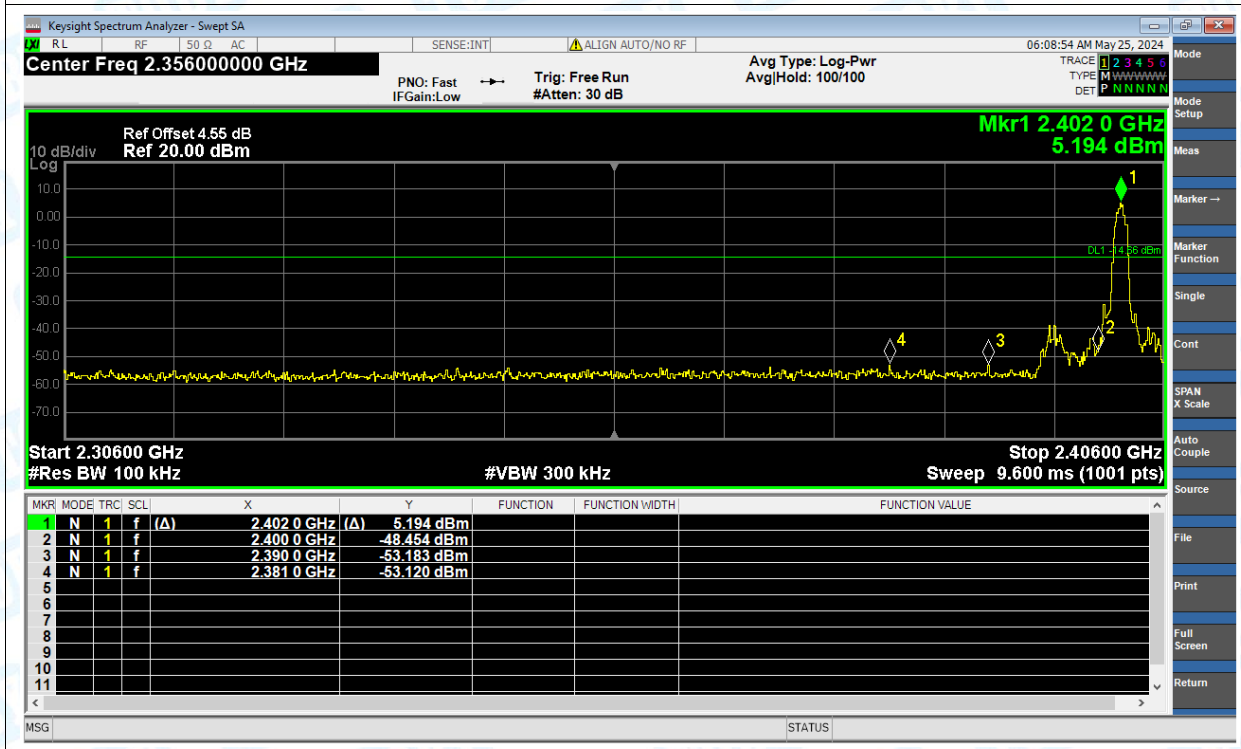
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



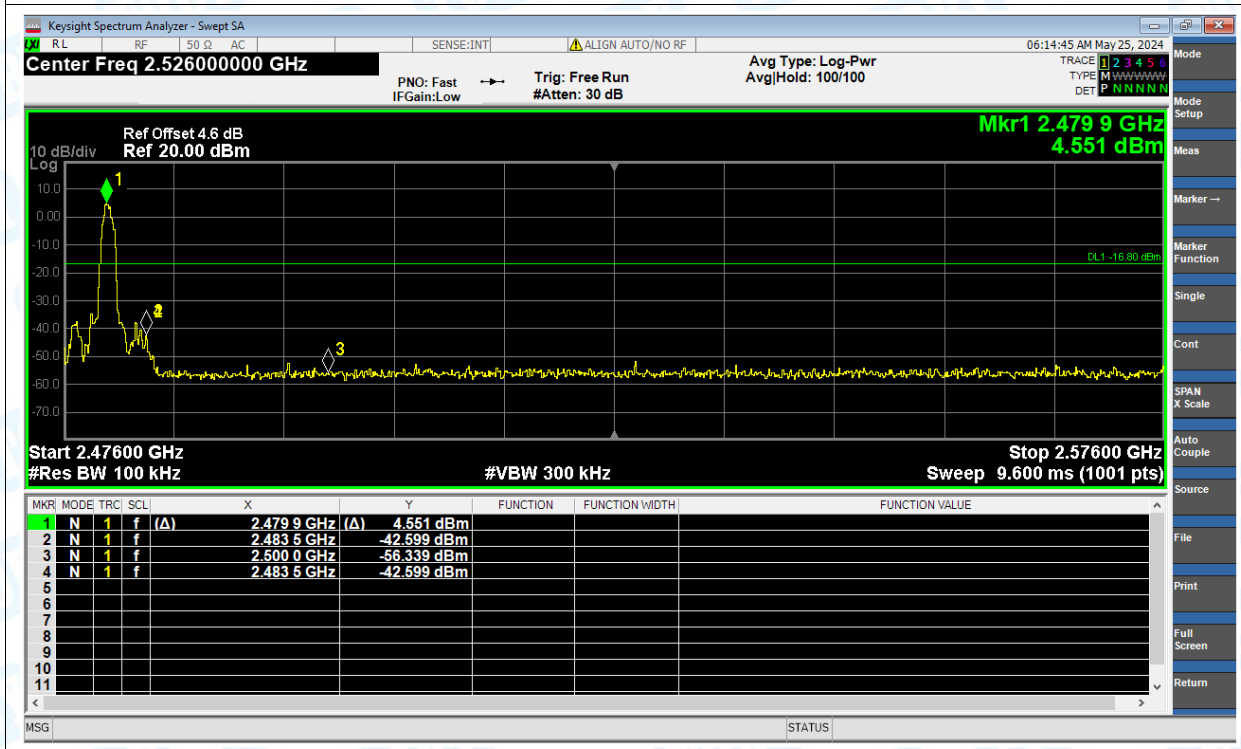
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

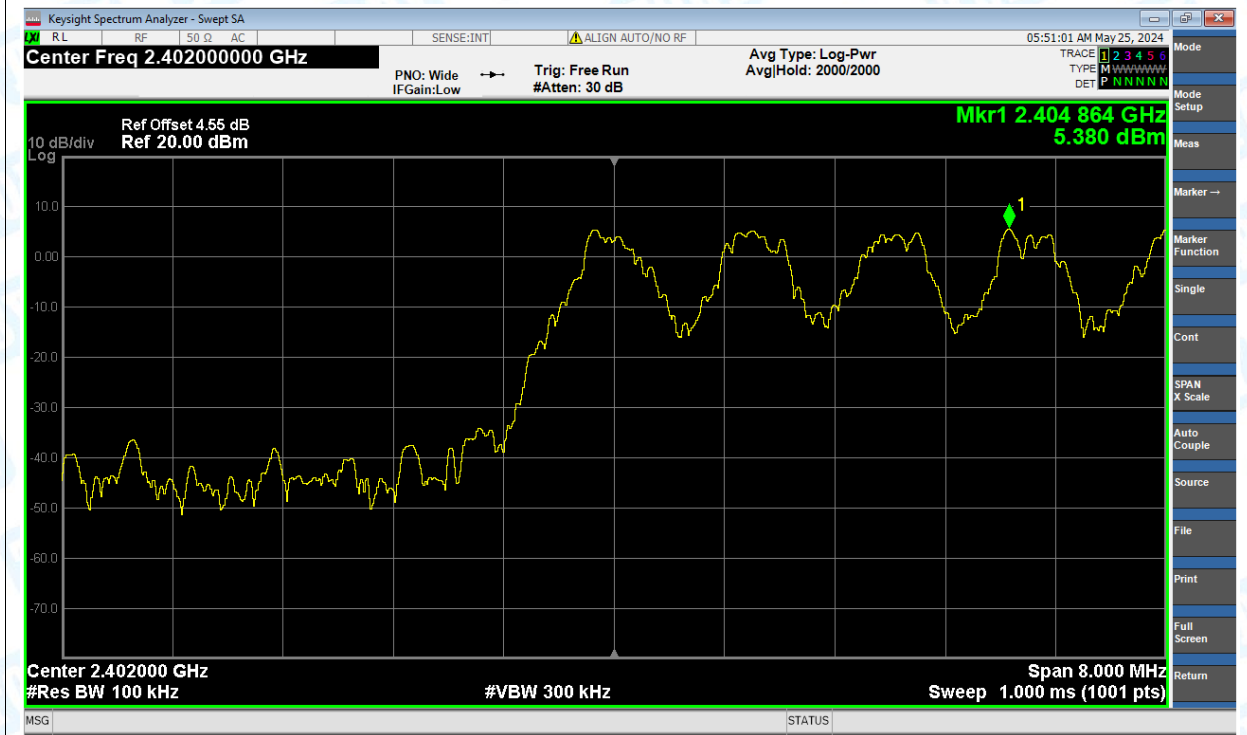


6. Band Edge(Hopping)

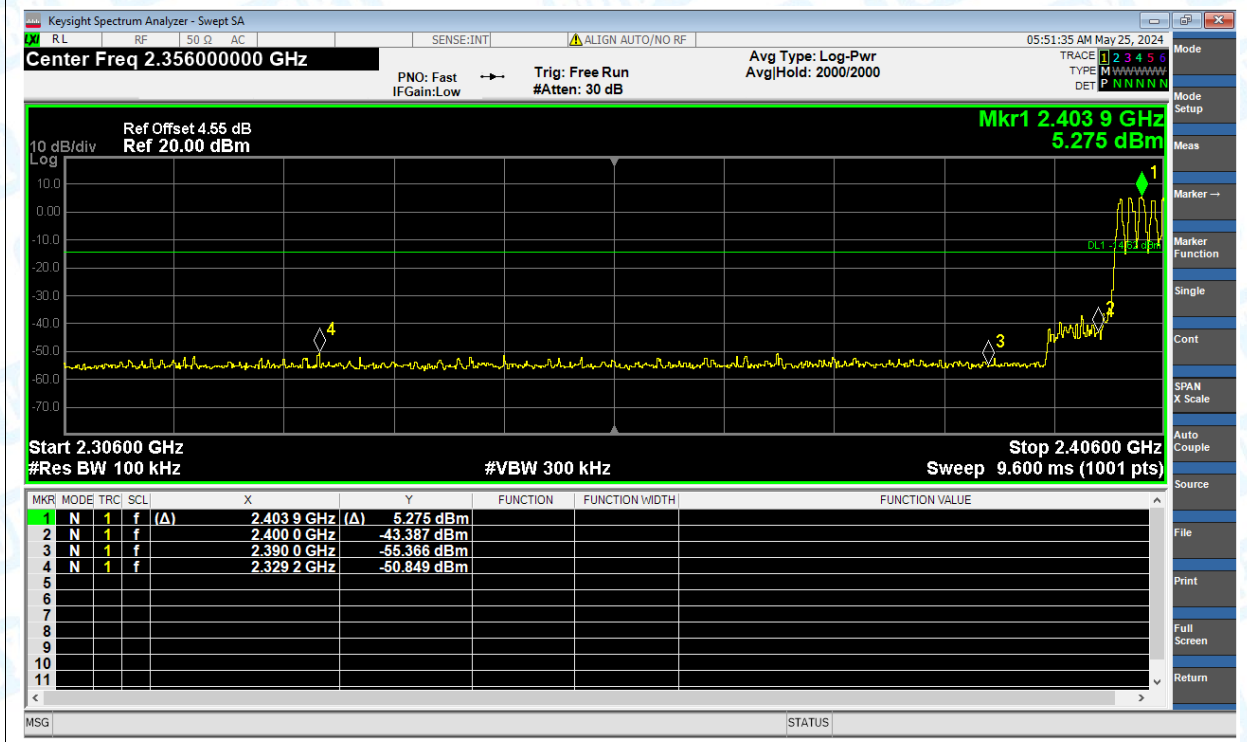
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.23	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-46.85	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-56.99	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.29	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.01	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-45.72	-20	Pass

Test Graphs

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



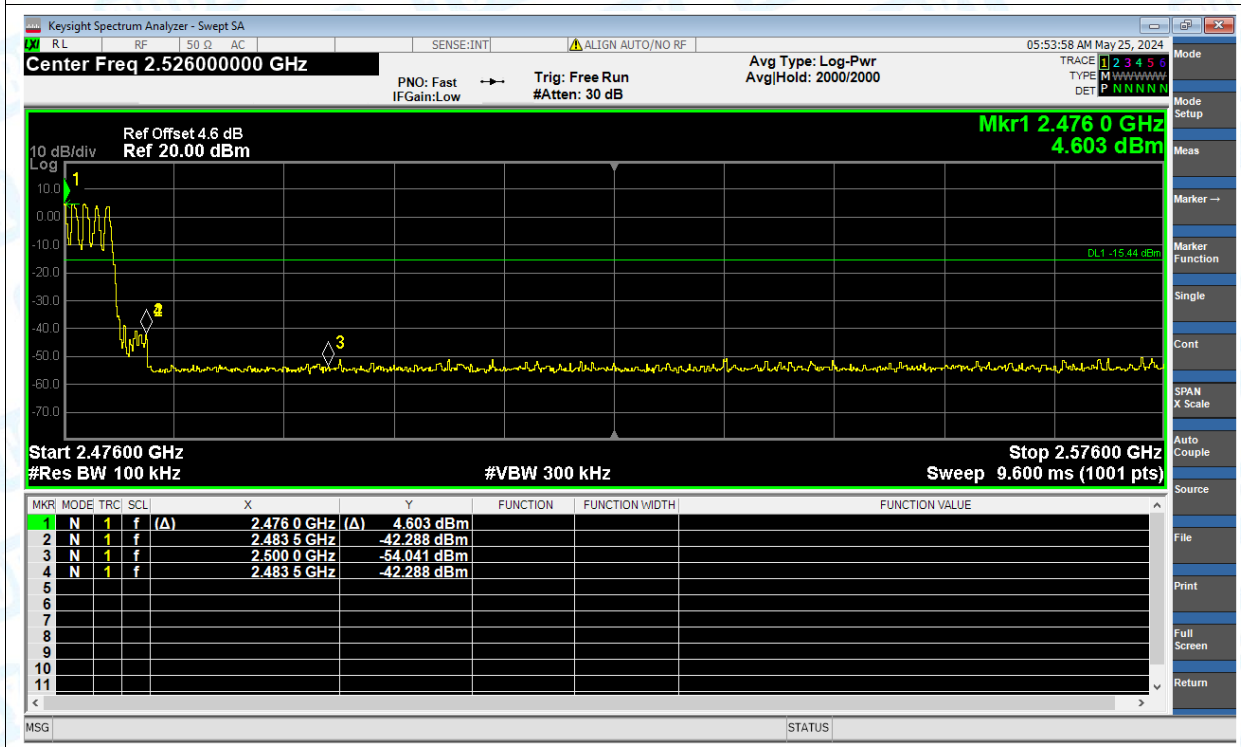
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



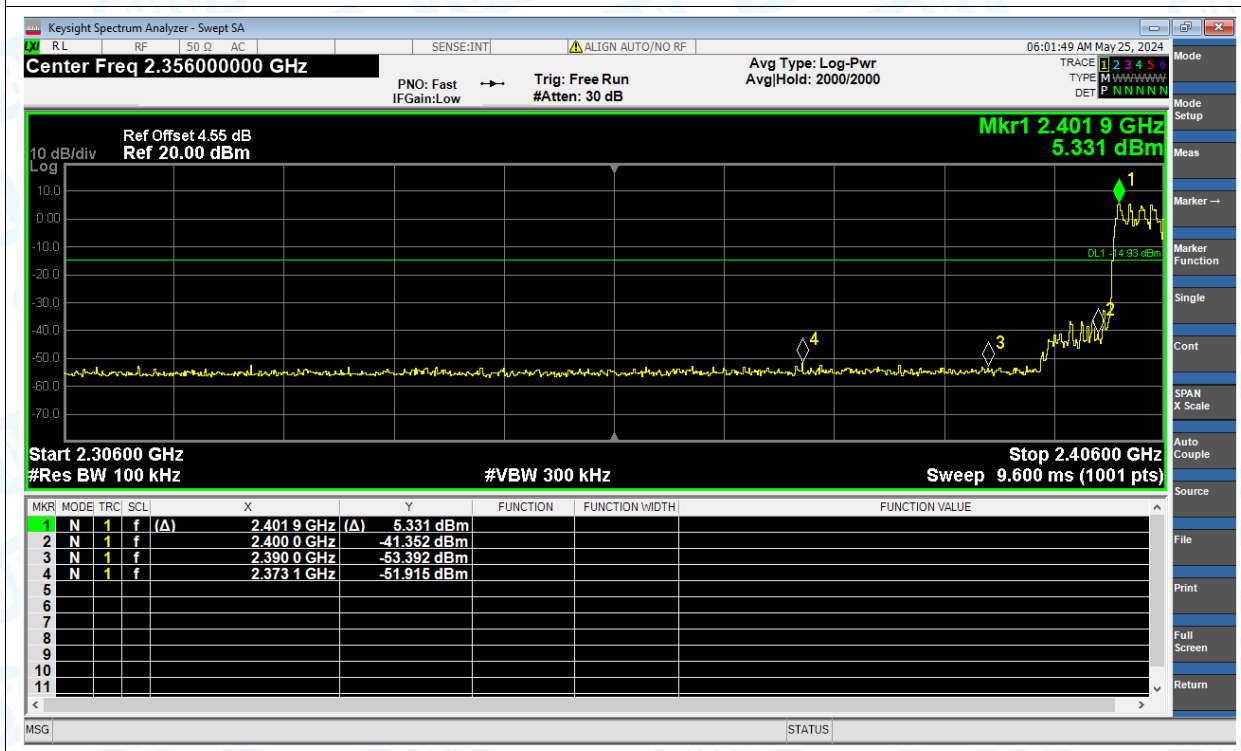
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



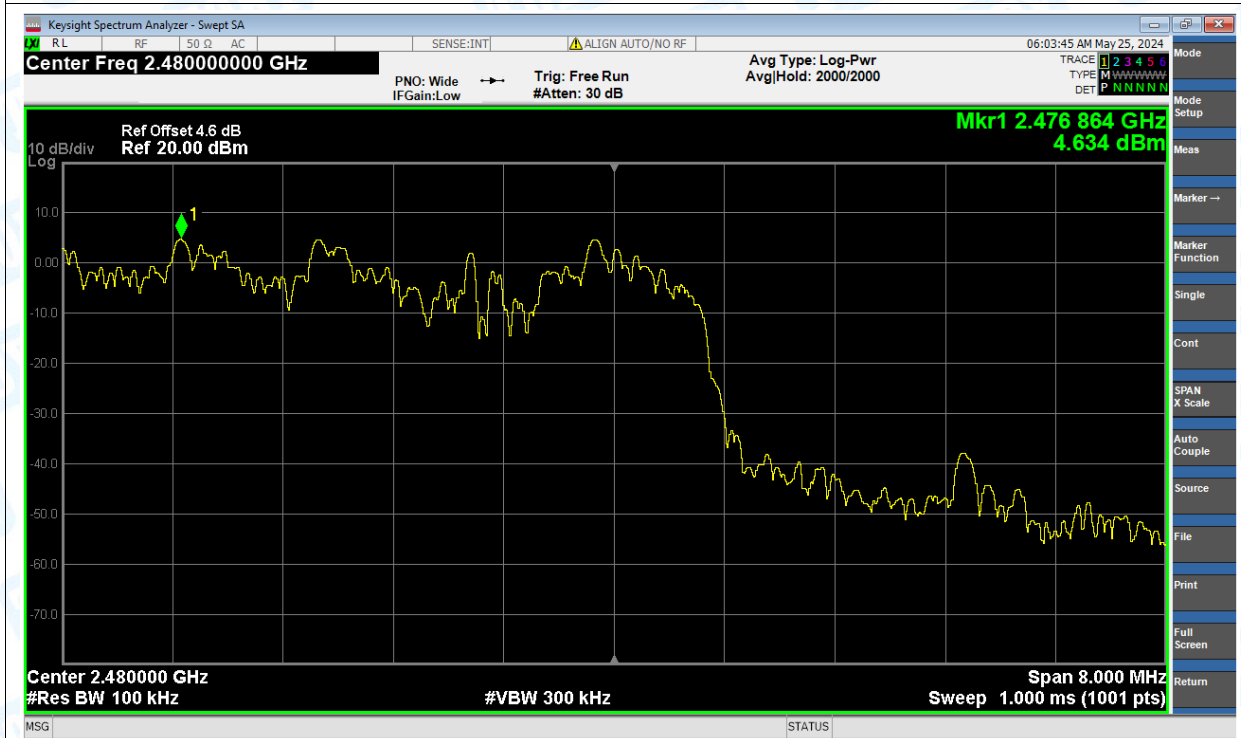
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



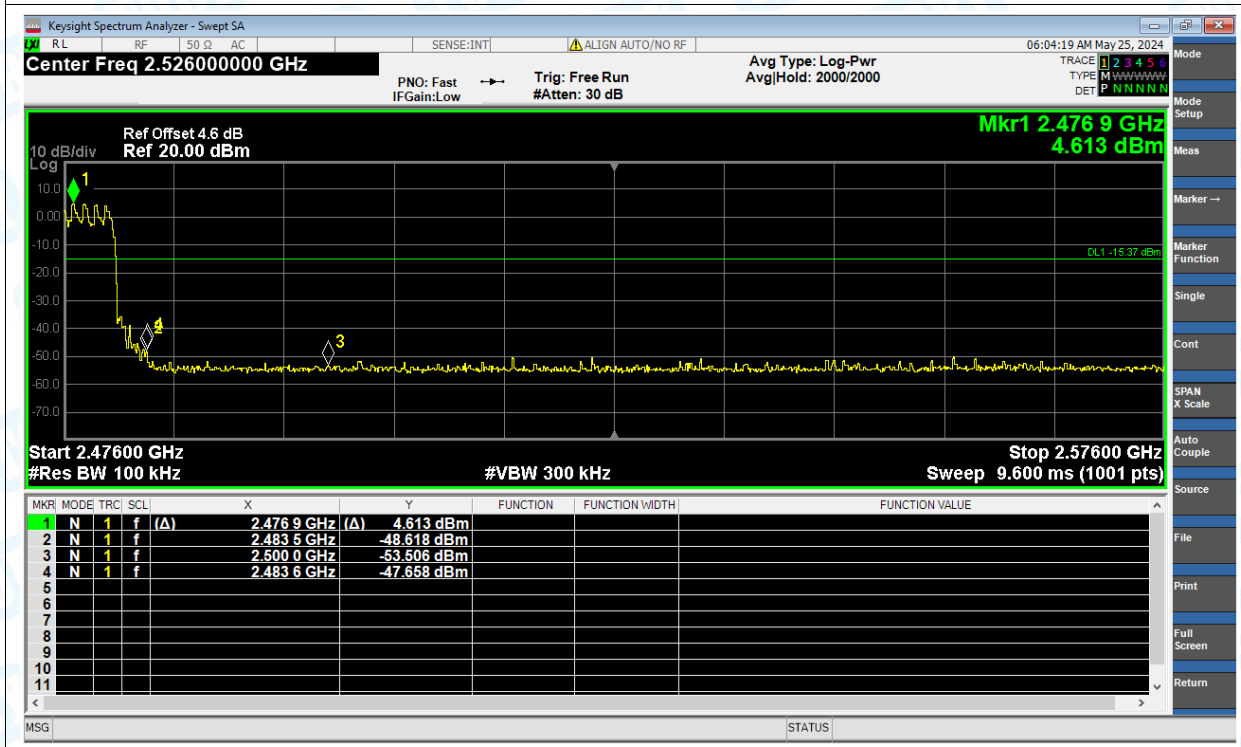
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



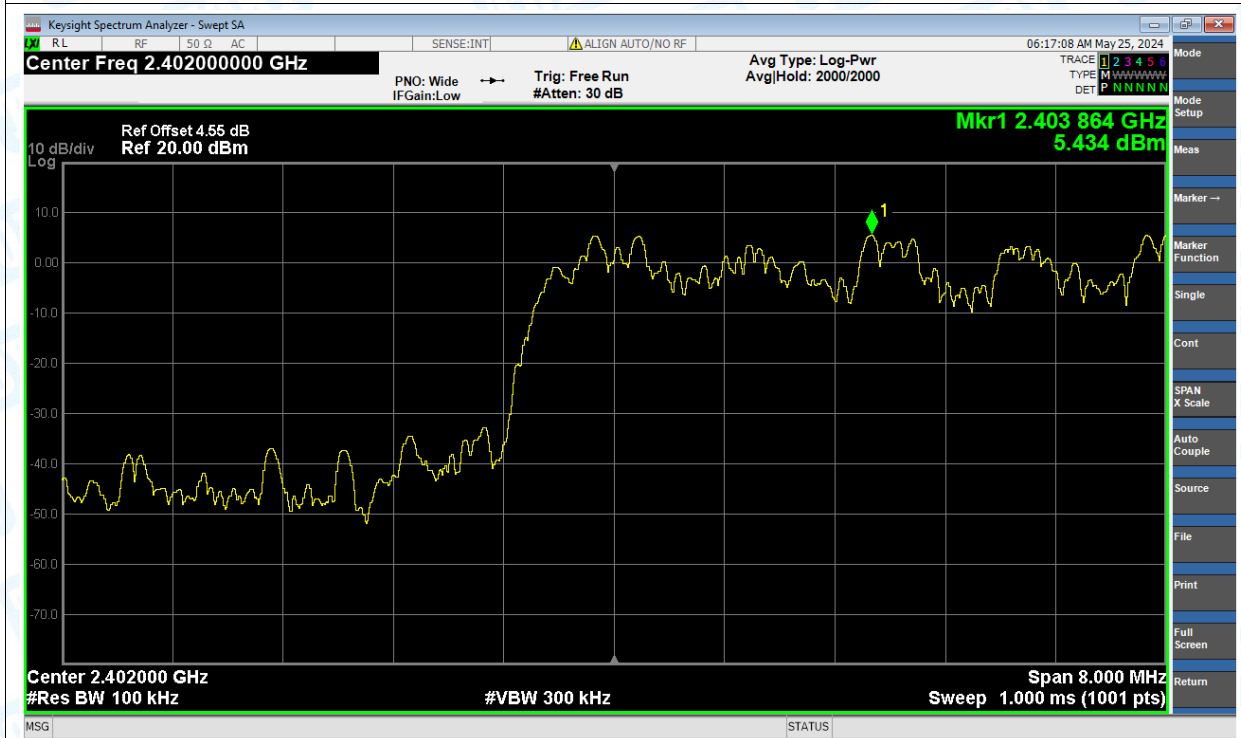
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



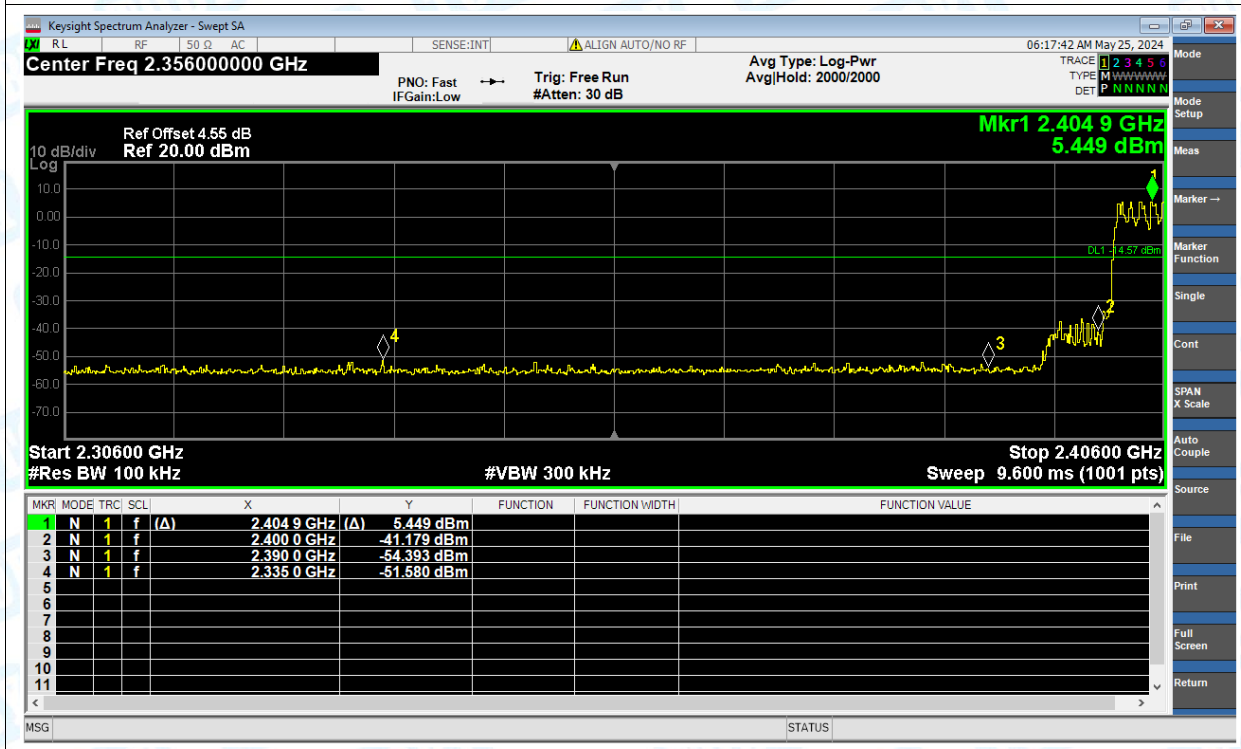
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



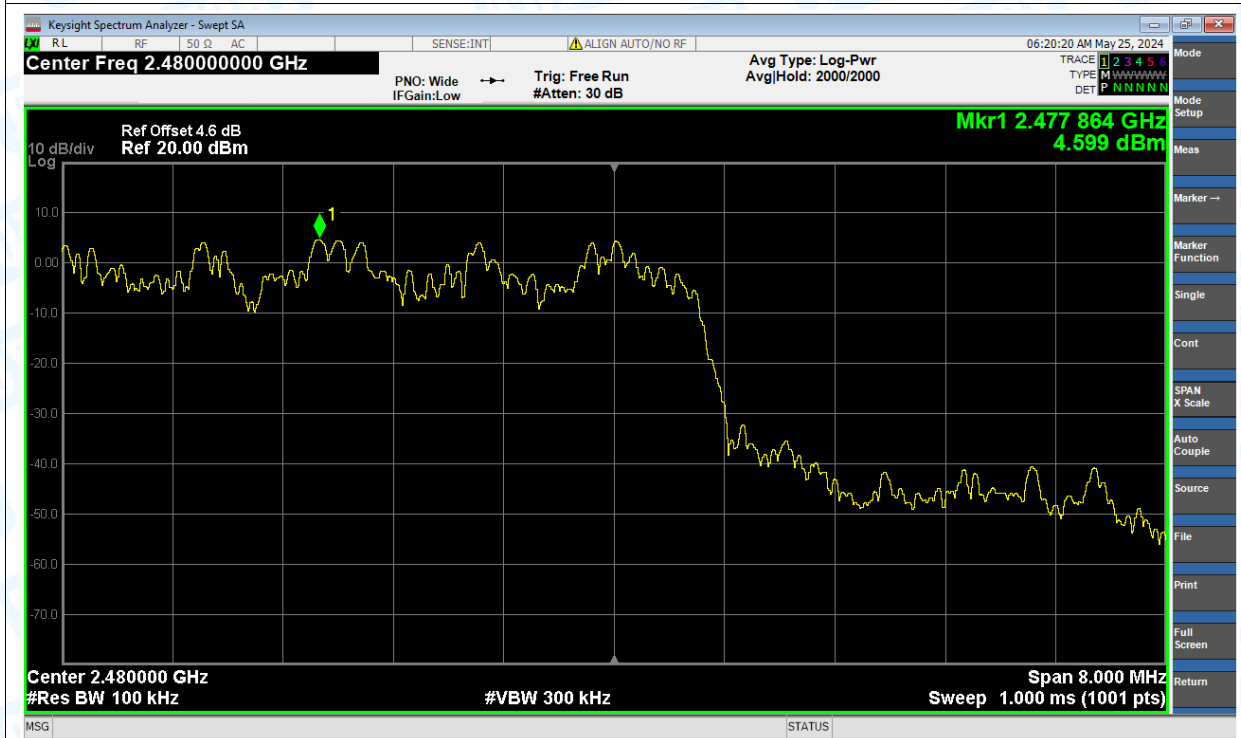
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



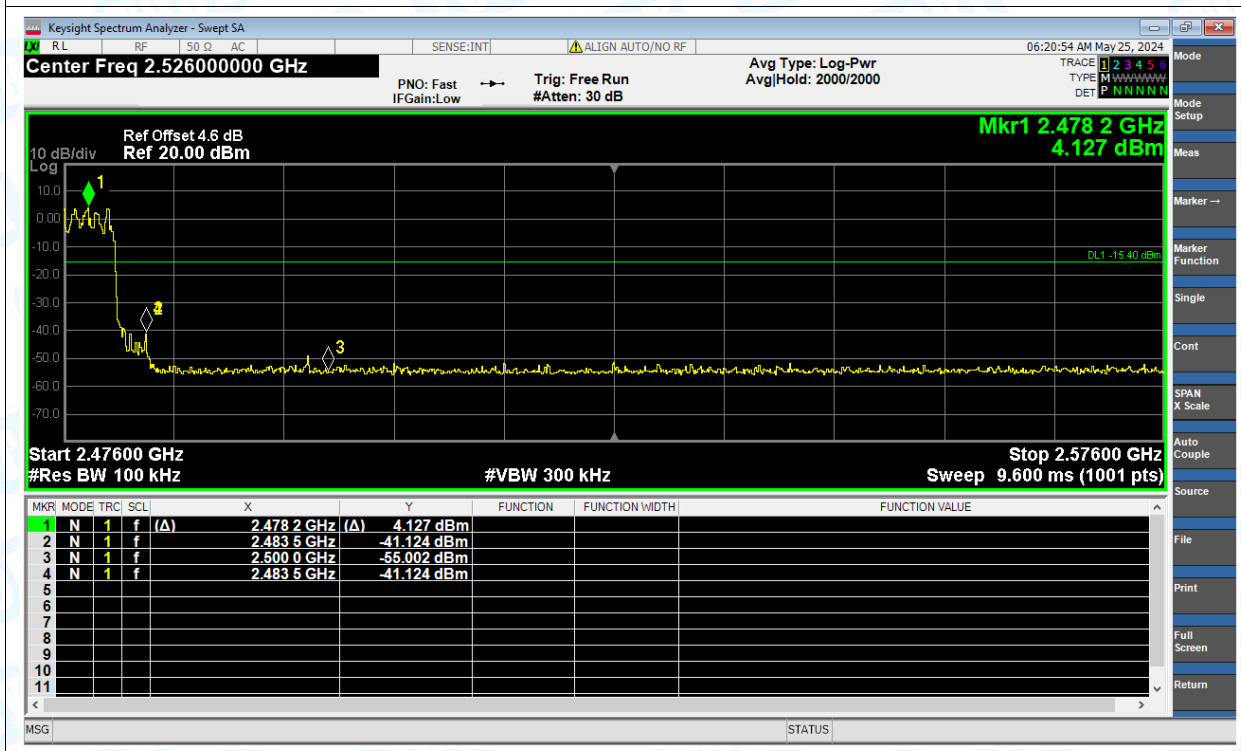
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

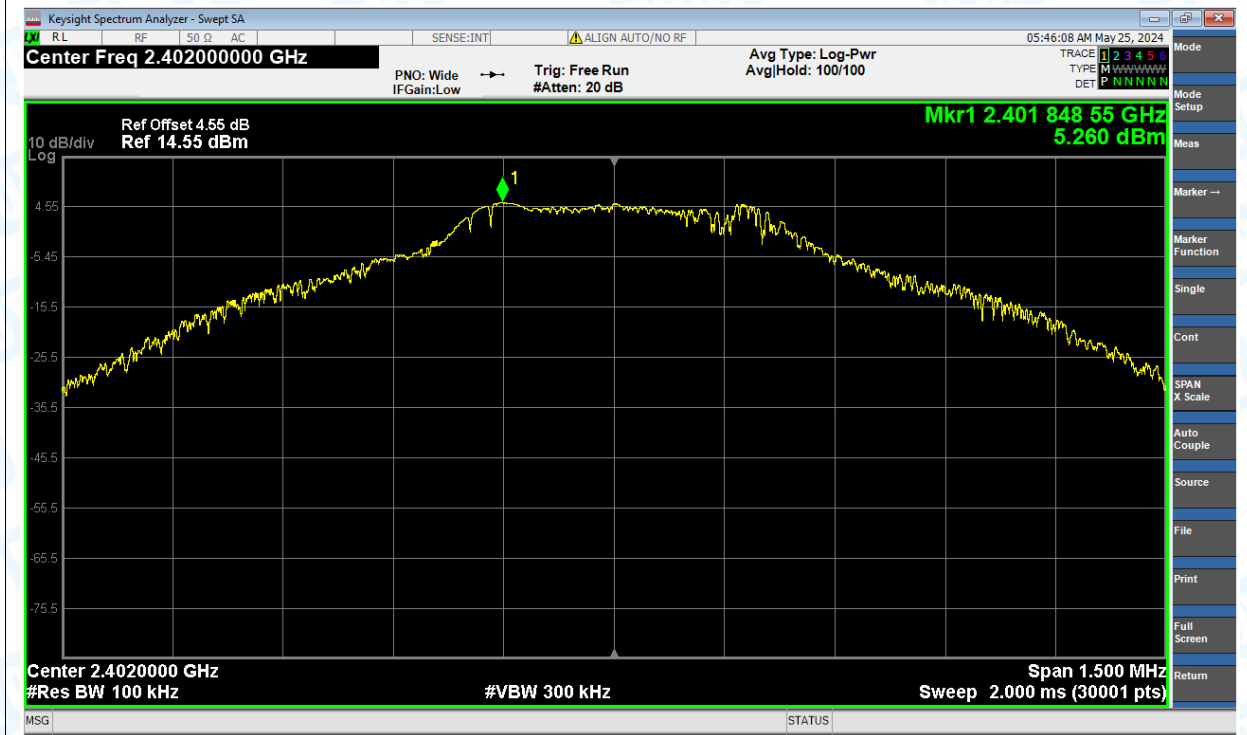


7. Conducted RF Spurious Emission

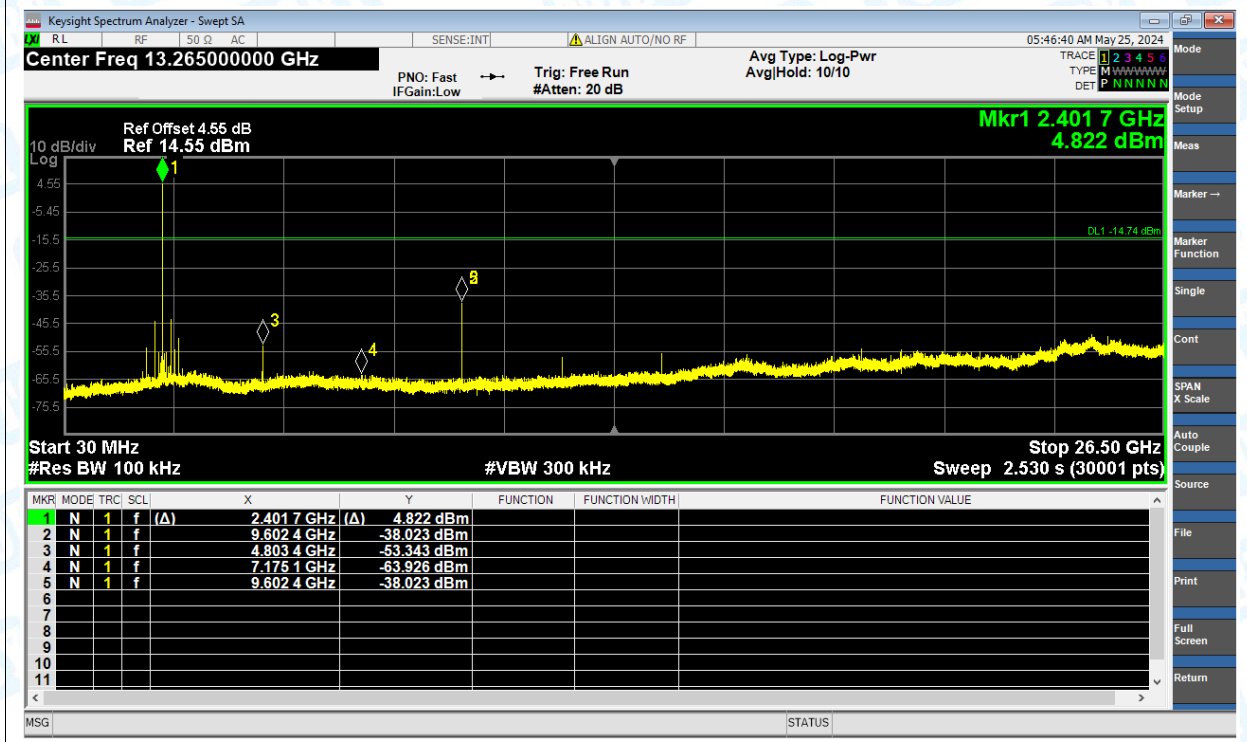
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-43.28	-20	Pass
NVNT	1-DH1	2441	Ant1	-42.39	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.04	-20	Pass
NVNT	2-DH1	2402	Ant1	-43.26	-20	Pass
NVNT	2-DH1	2441	Ant1	-42.43	-20	Pass
NVNT	2-DH1	2480	Ant1	-41.17	-20	Pass
NVNT	3-DH1	2402	Ant1	-43.17	-20	Pass
NVNT	3-DH1	2441	Ant1	-42.25	-20	Pass
NVNT	3-DH1	2480	Ant1	-40.92	-20	Pass

Test Graphs

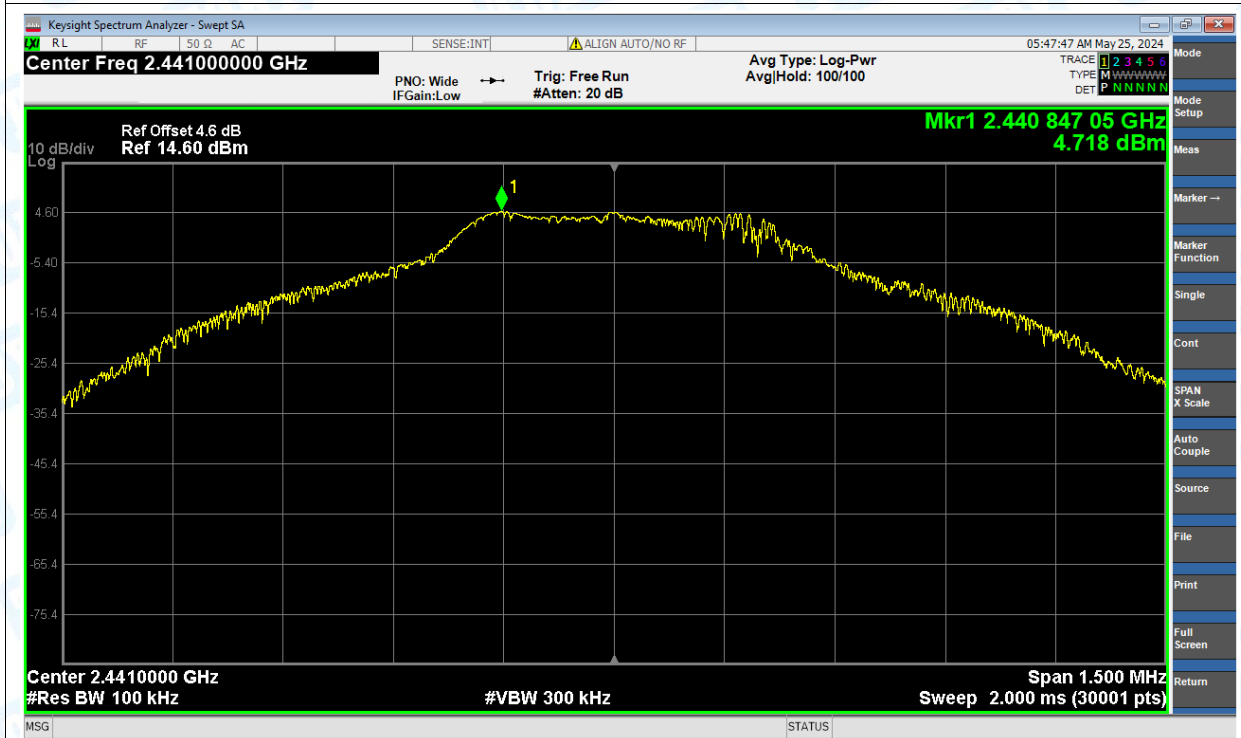
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



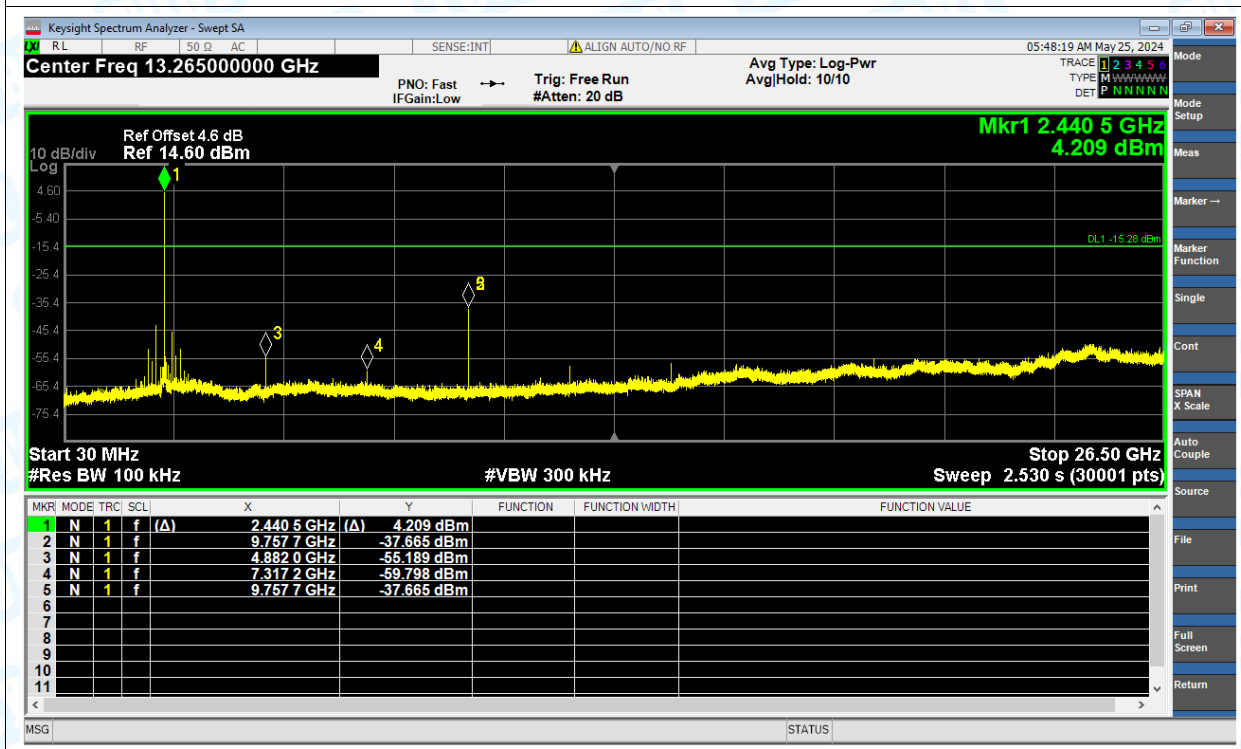
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



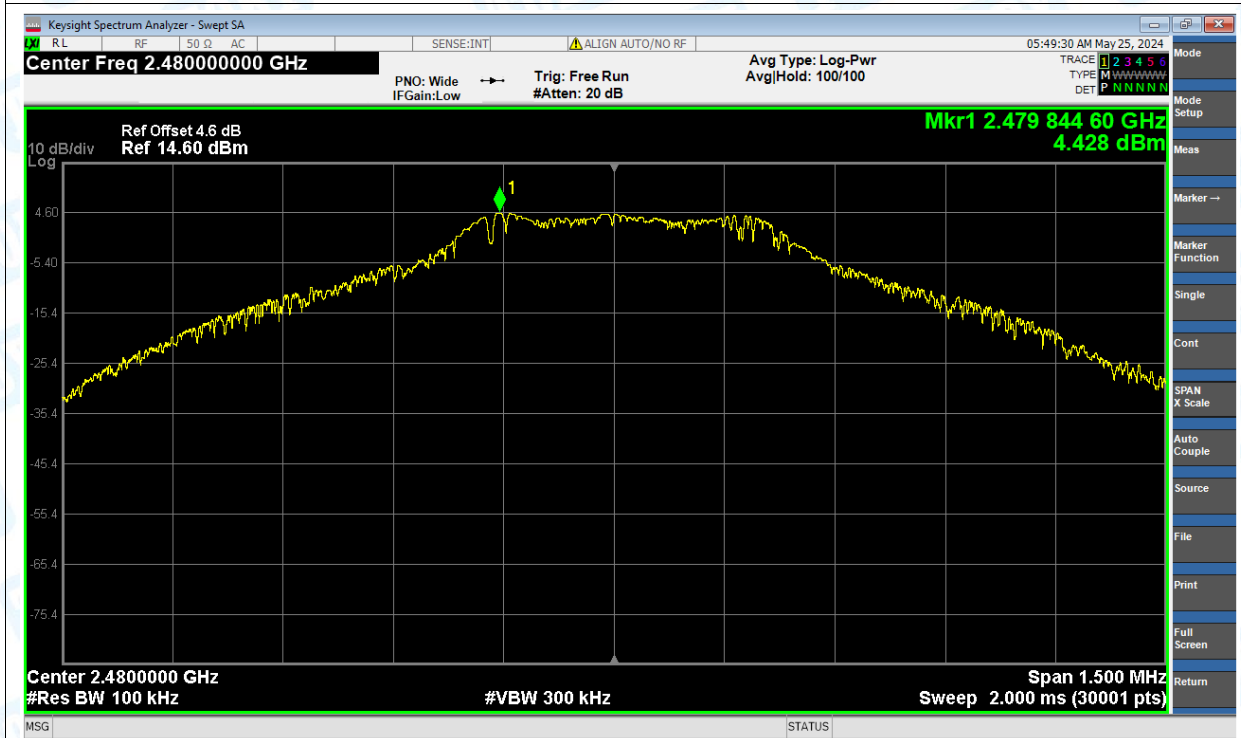
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



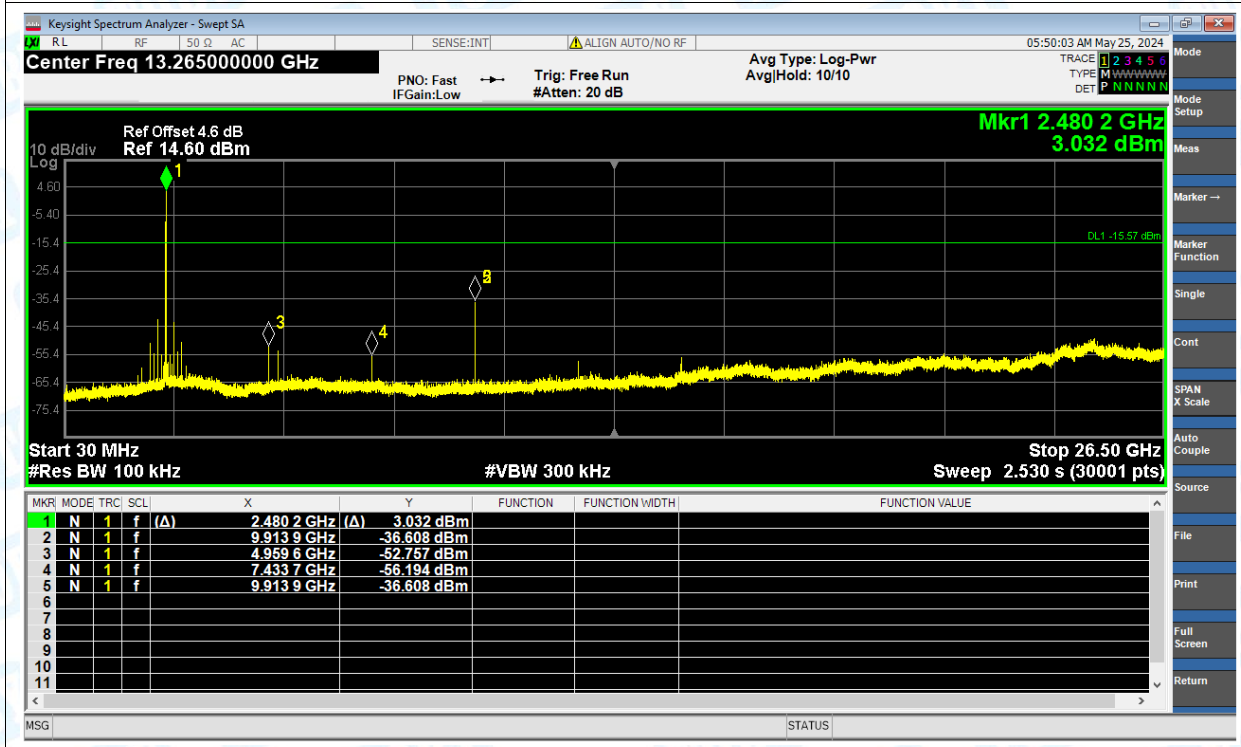
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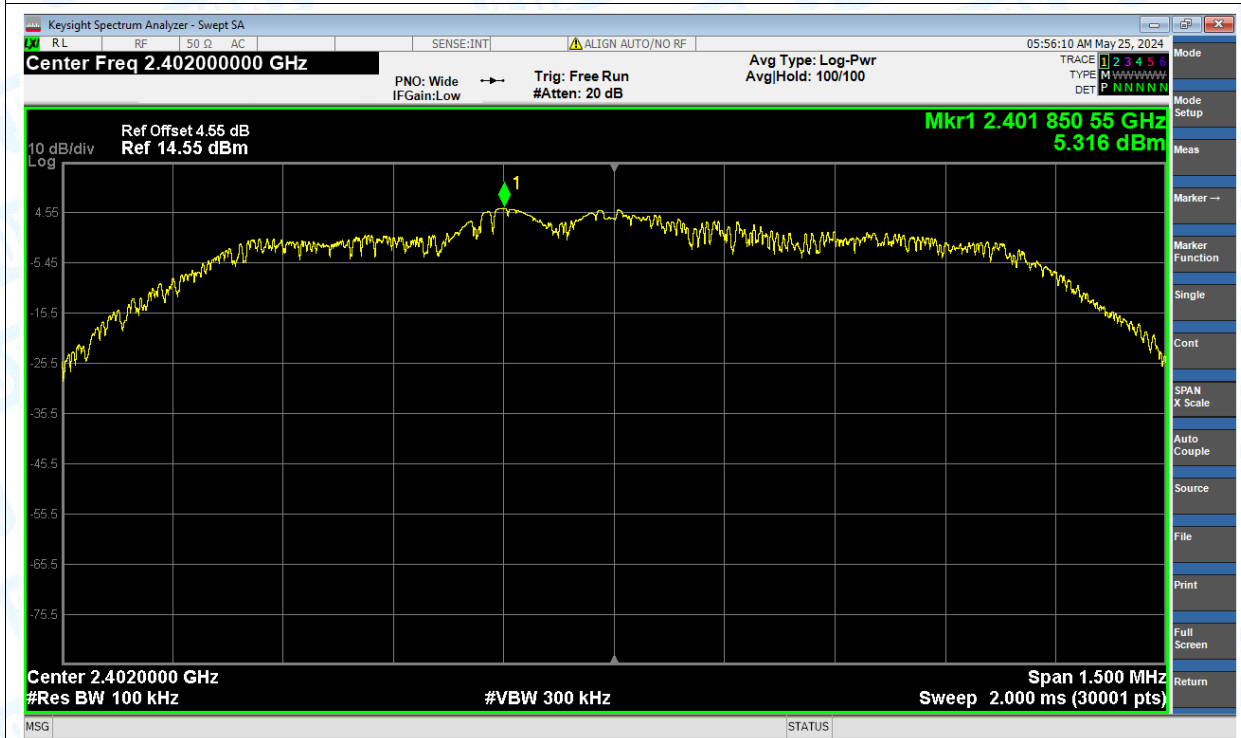
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



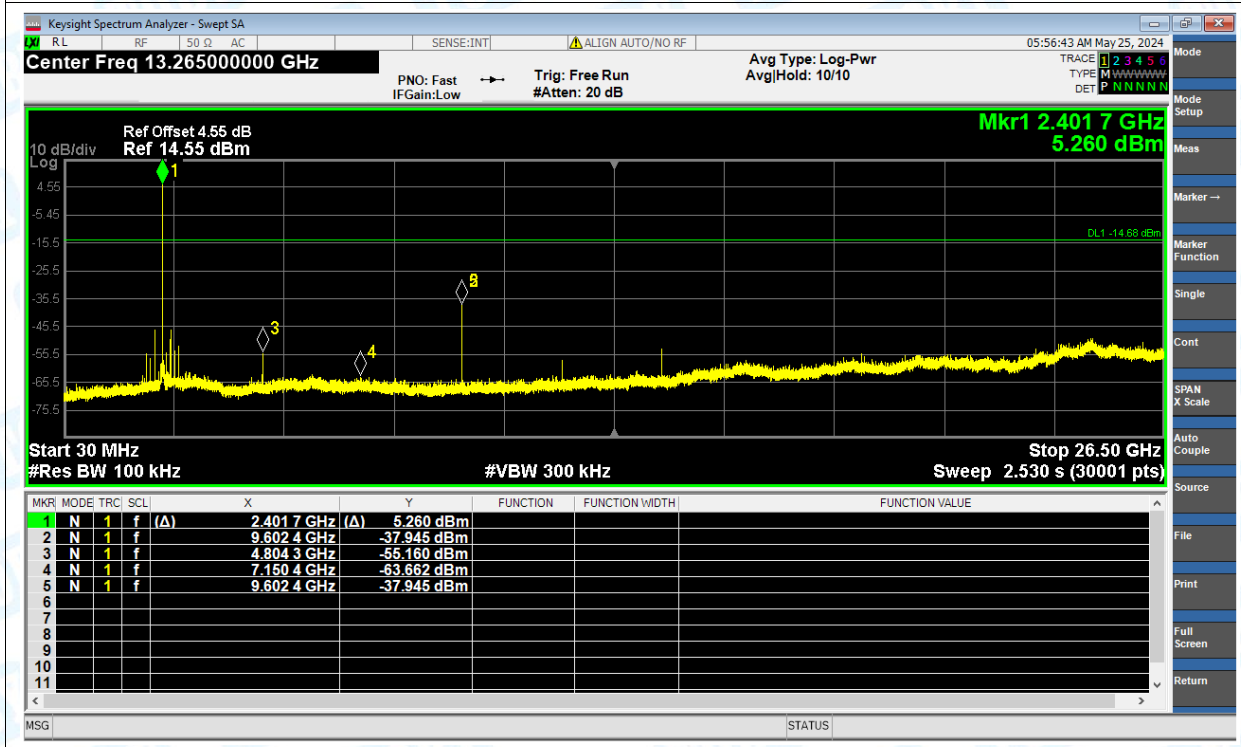
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



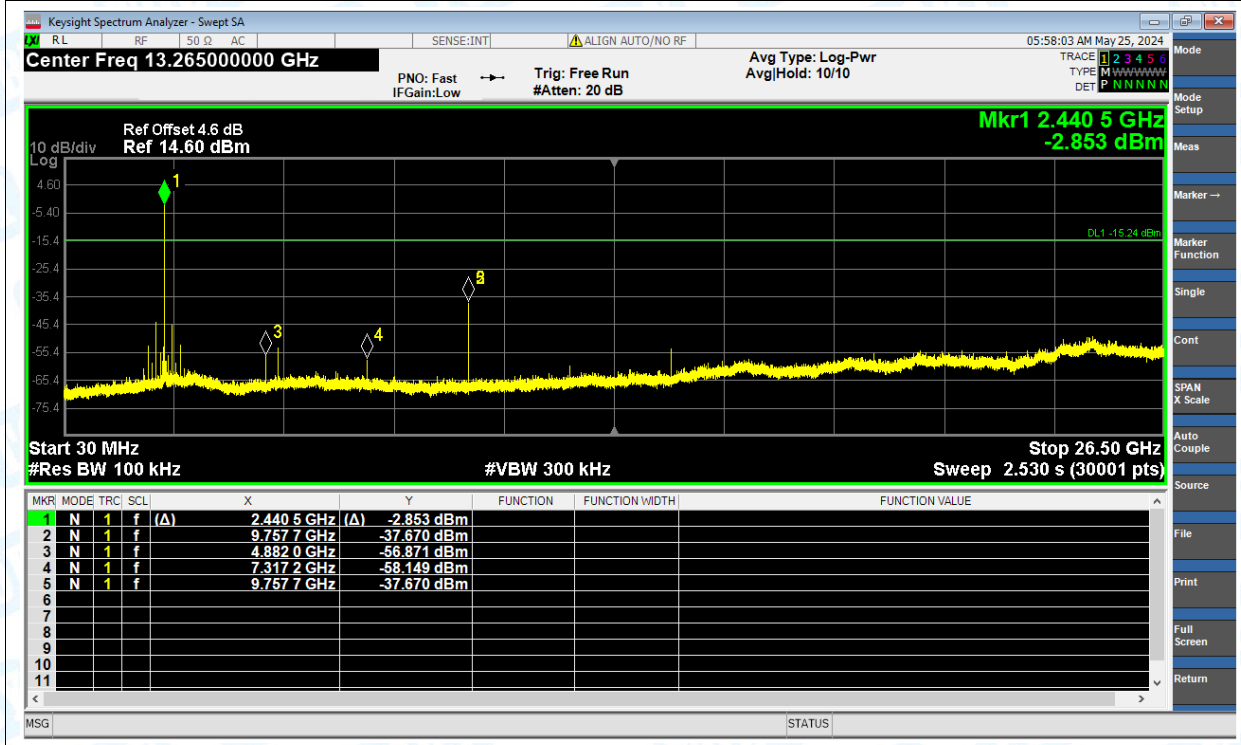
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



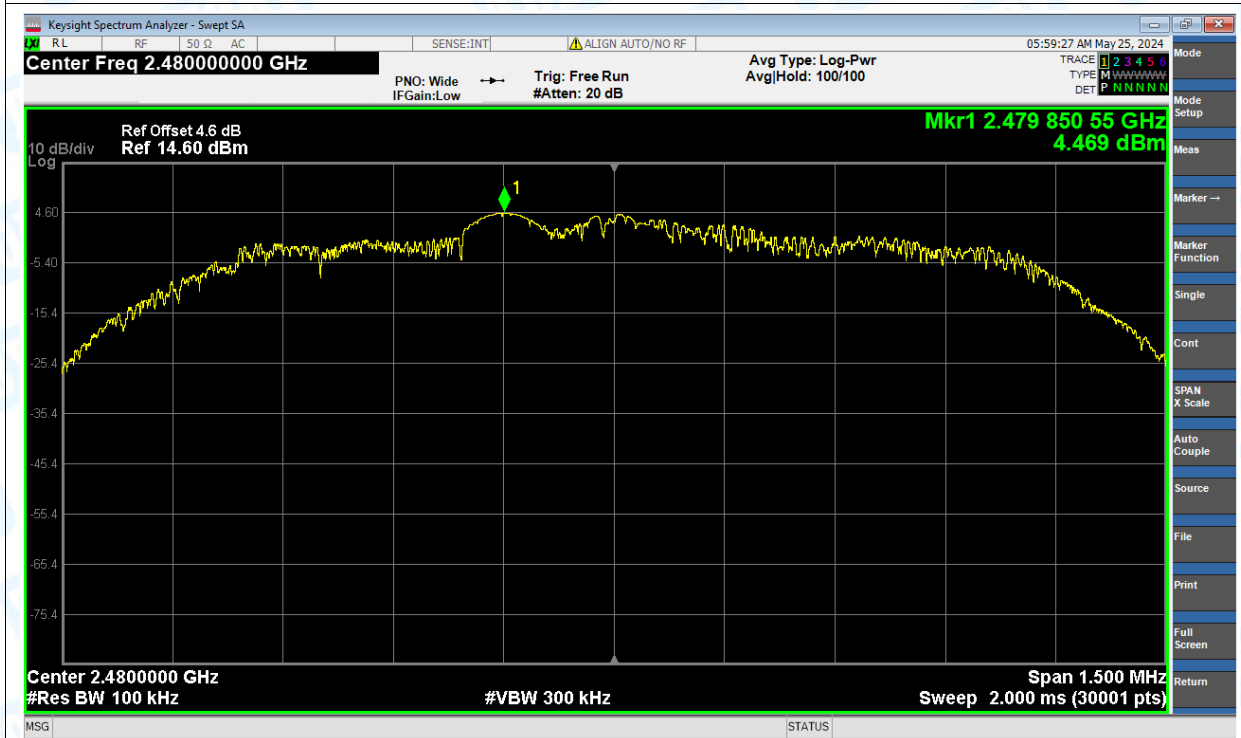
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



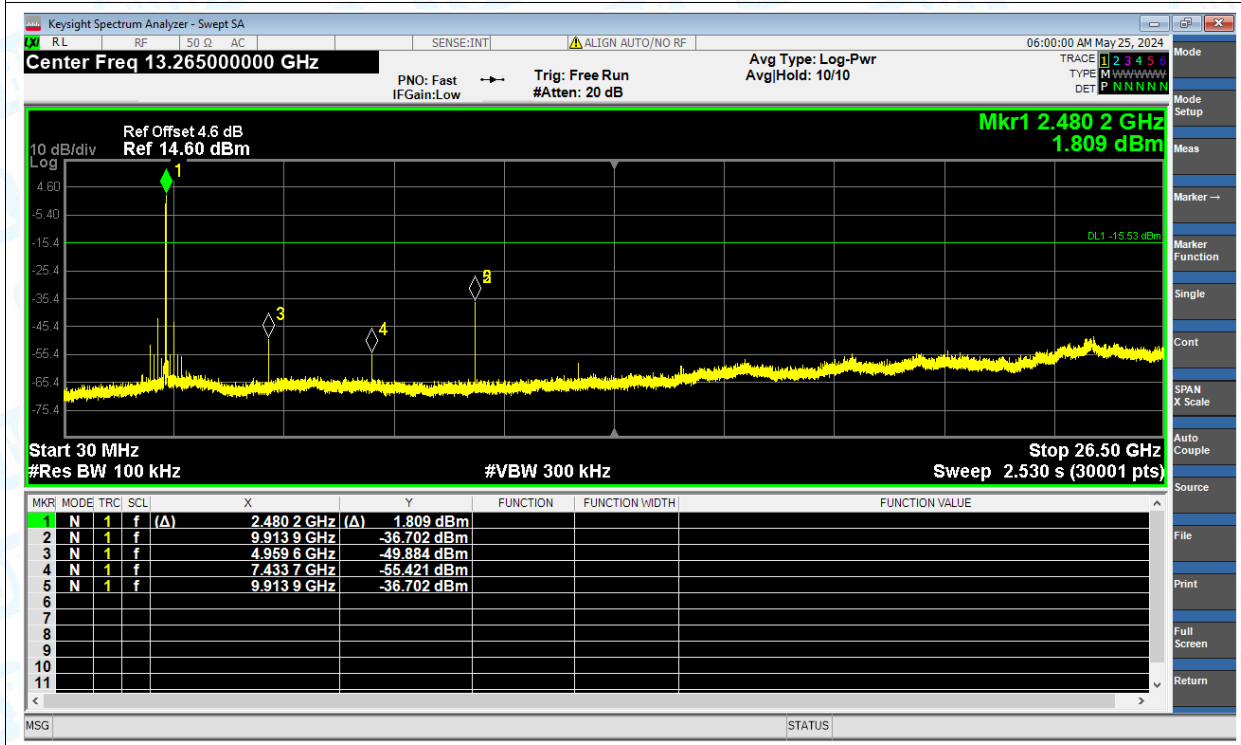
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



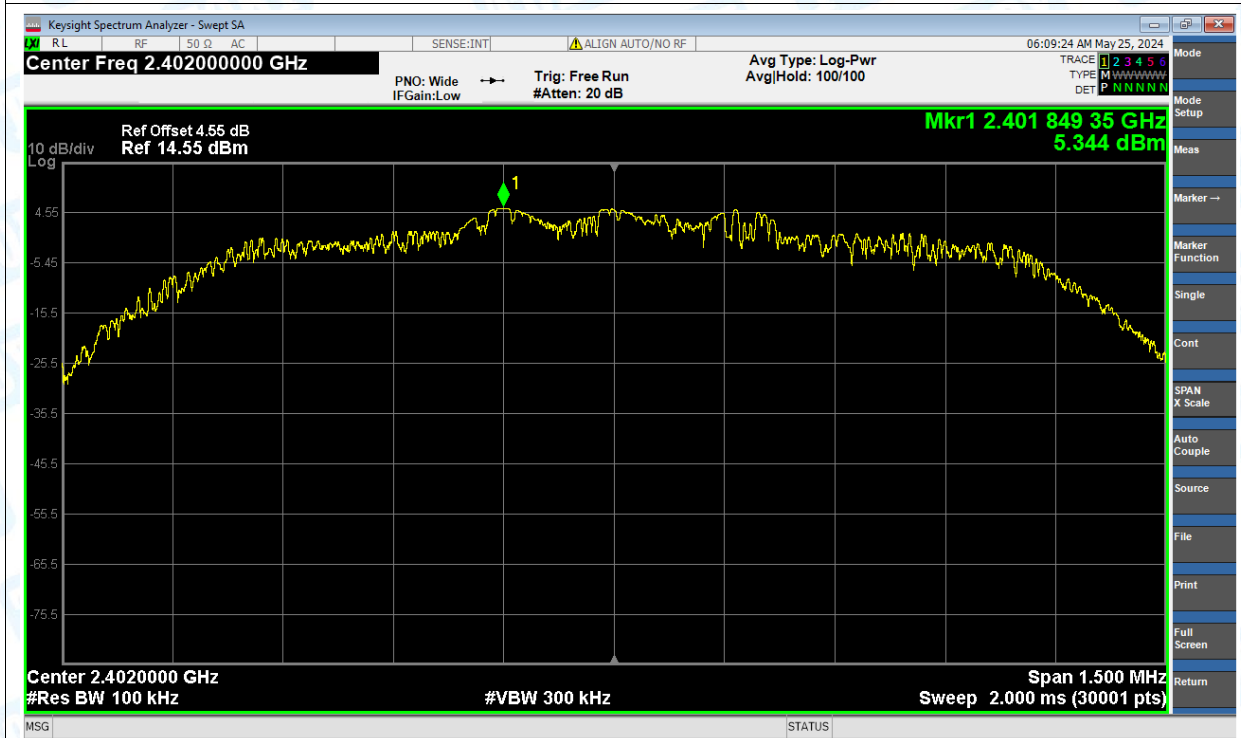
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



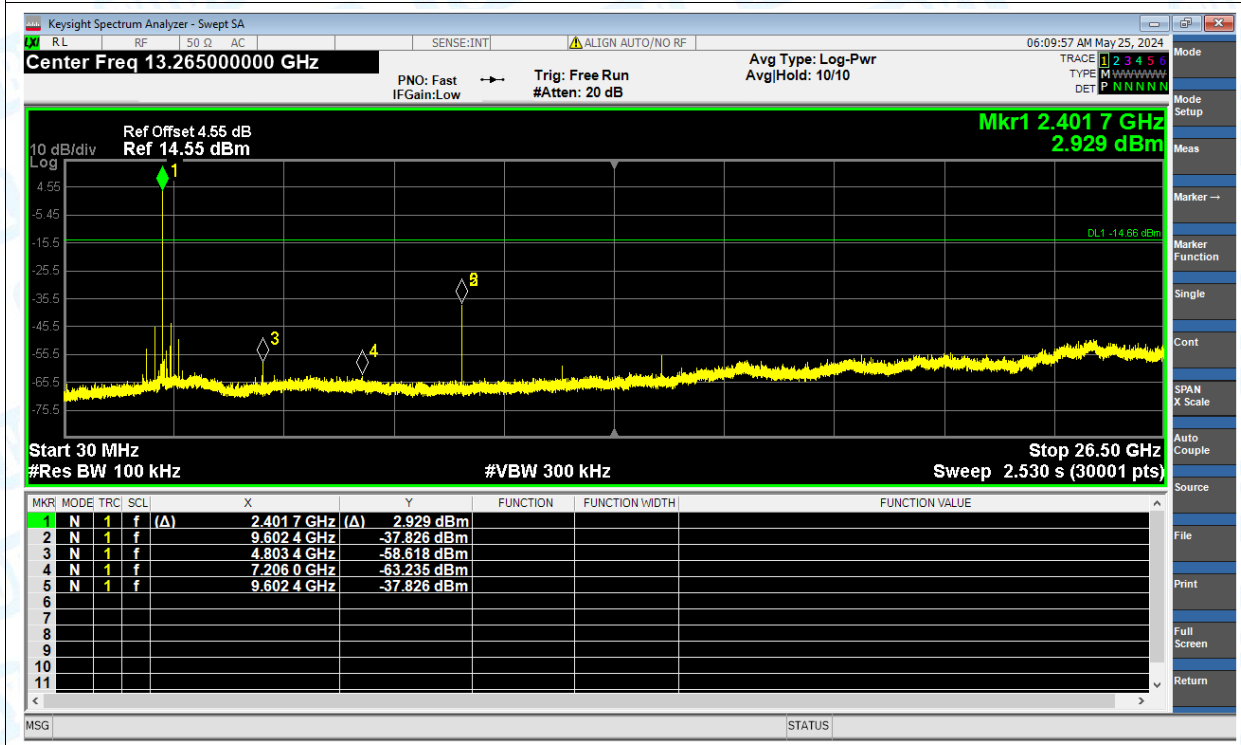
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



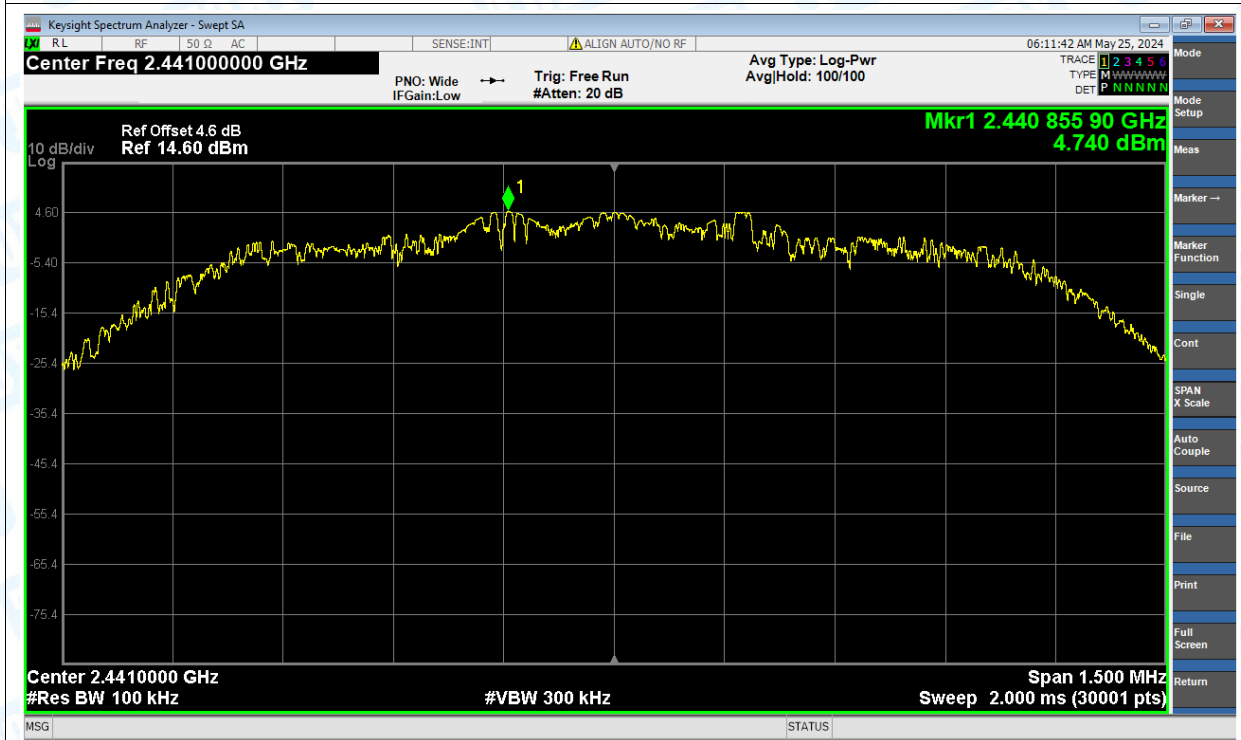
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



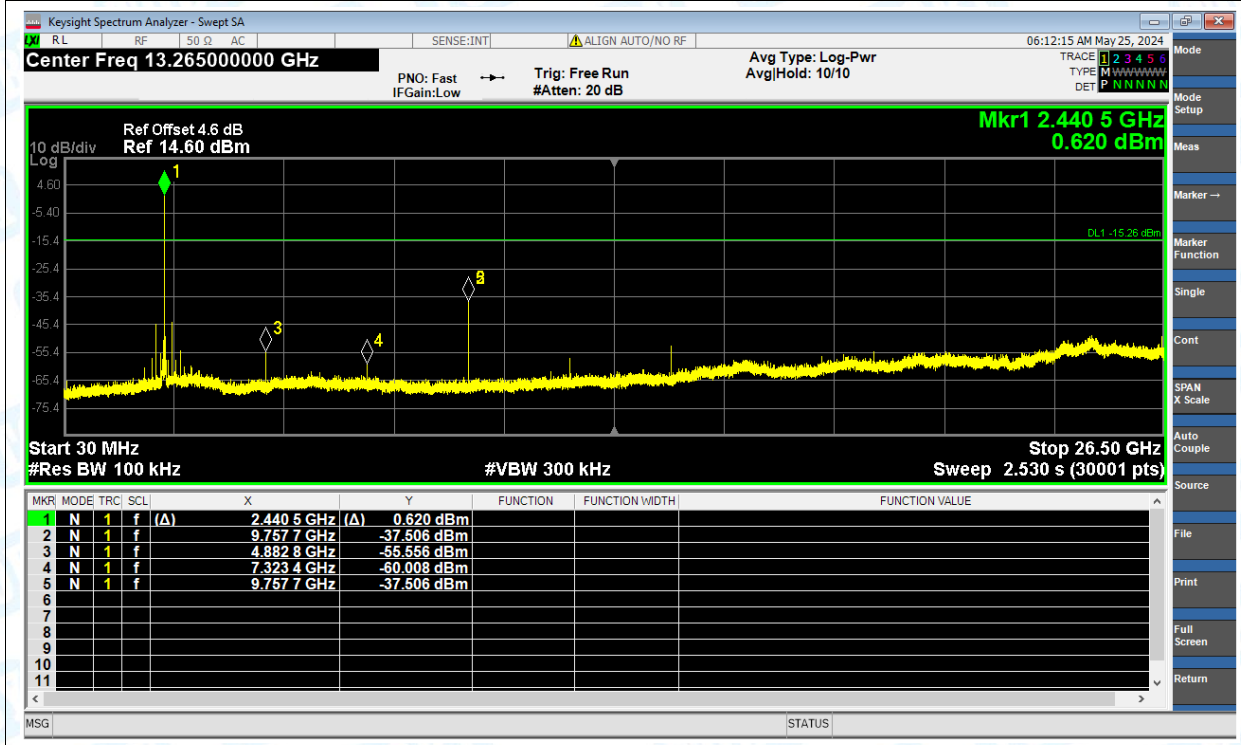
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



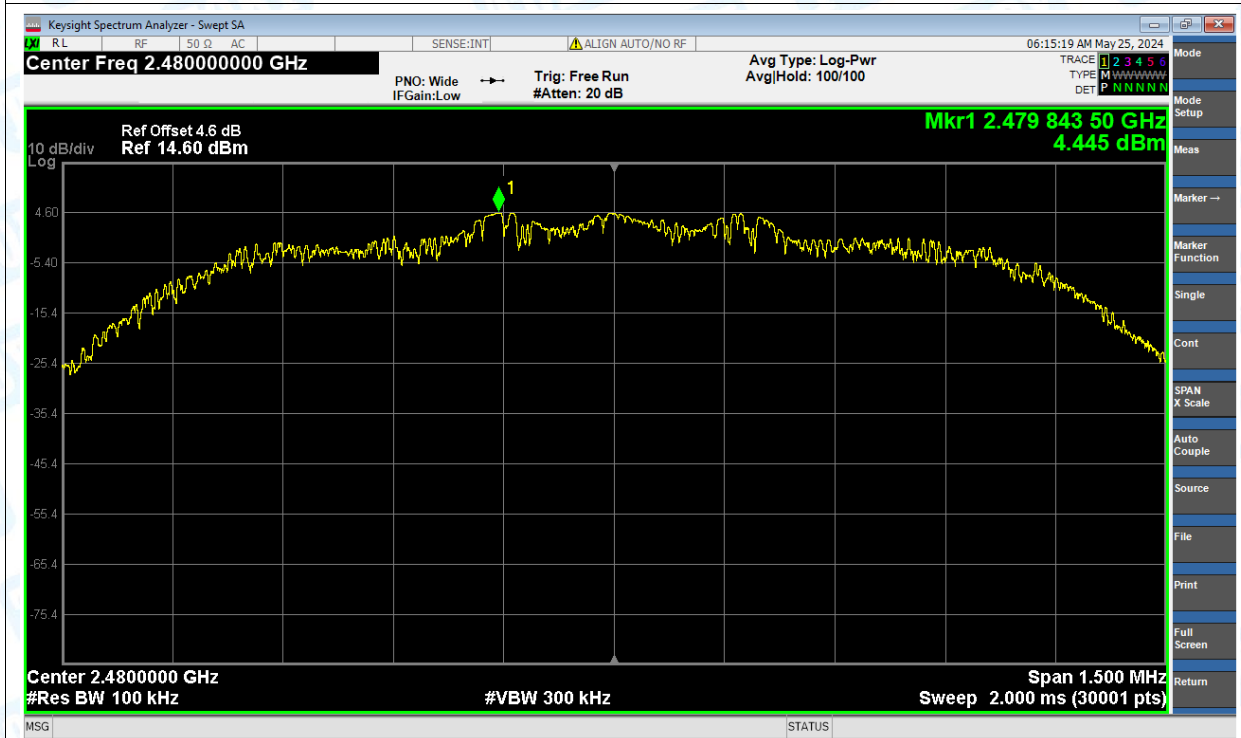
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



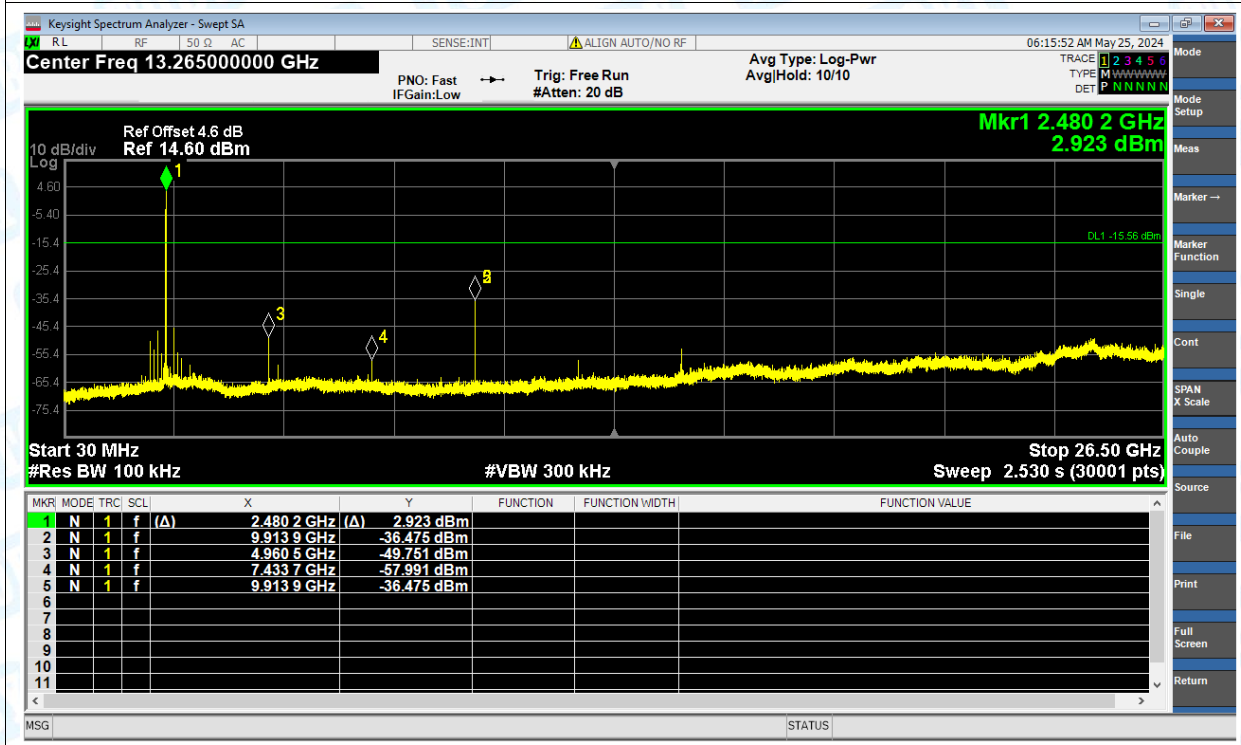
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

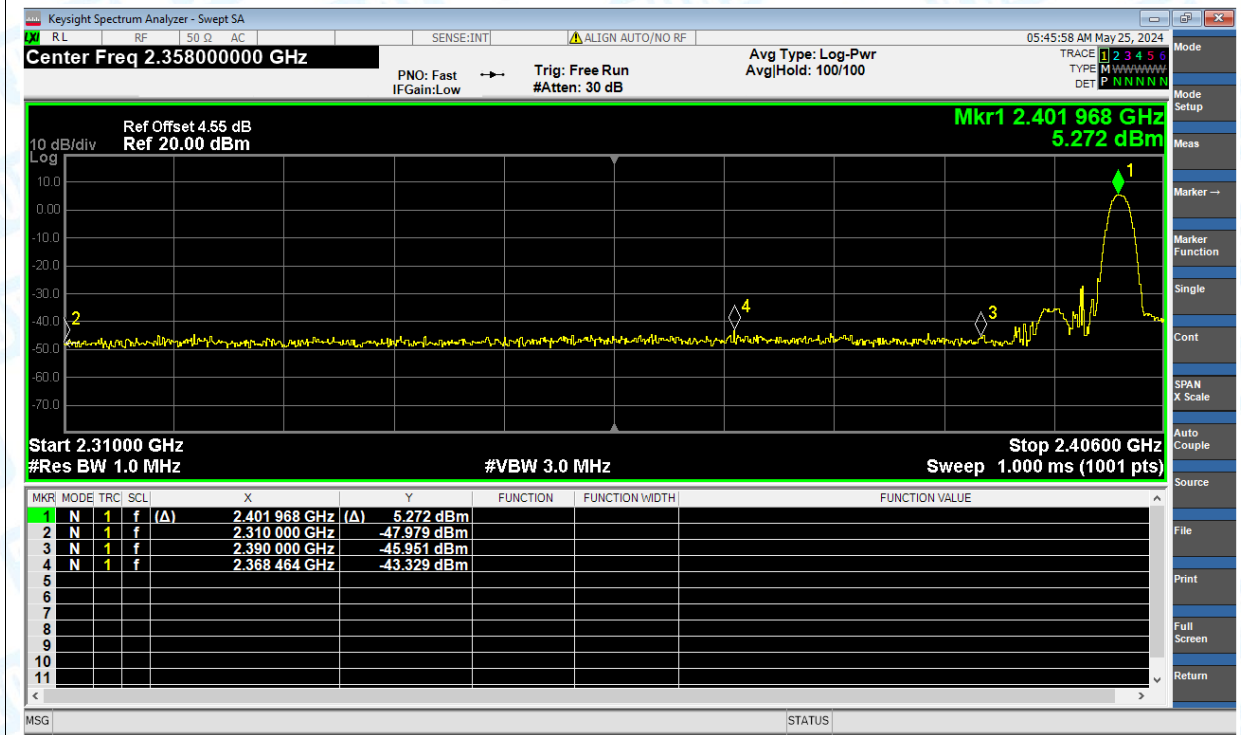


8. Restrict Band

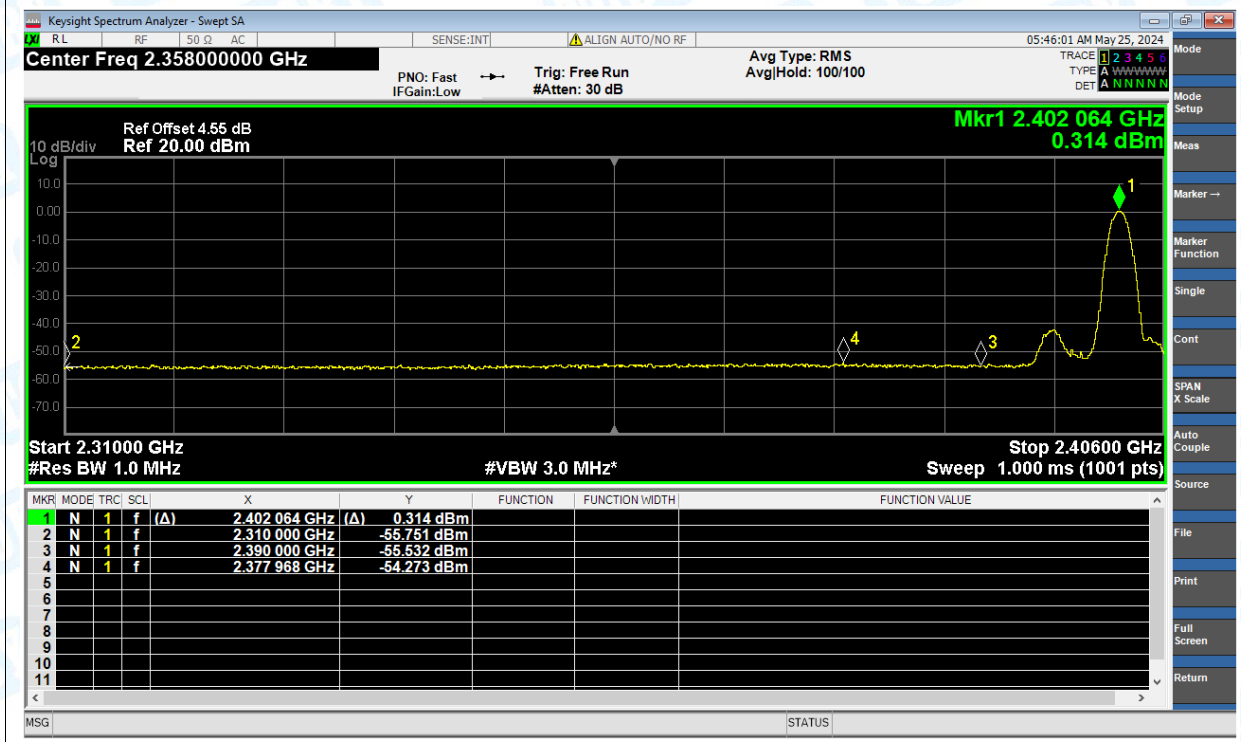
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.98	2	-	49.28	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.75	2	5.17	46.68	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2368.464	-43.33	2	-	53.93	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2377.968	-54.27	2	5.17	48.16	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-45.95	2	-	51.31	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.53	2	5.17	46.9	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-37.73	2	-	59.53	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-50.62	2	5.17	51.81	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-37.73	2	-	59.53	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.632	-50.31	2	5.17	52.12	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-52.1	2	-	45.16	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-62.33	2	5.17	40.1	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.97	2	-	49.29	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.65	2	4.95	46.56	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2379.024	-44.43	2	-	52.83	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2360.208	-54.47	2	4.95	47.74	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.93	2	-	49.33	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.07	2	4.95	47.14	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-38.28	2	-	58.98	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.57	2	5.06	53.75	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.512	-38.29	2	-	58.97	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.512	-48.57	2	5.06	53.75	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-52.51	2	-	44.75	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-63.4	2	5.06	38.92	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-46.76	2	-	50.5	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.77	2	4.95	46.44	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2364.528	-43.25	2	-	54.01	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2378.16	-54.29	2	4.95	47.92	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.98	2	-	49.28	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.6	2	4.95	46.61	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-39.34	2	-	57.92	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-51.35	2	5.06	50.97	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.752	-38.3	2	-	58.96	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.56	-50.66	2	5.06	51.66	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-52.21	2	-	45.05	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-62.31	2	5.06	40.01	Average	54	Pass

Test Graphs

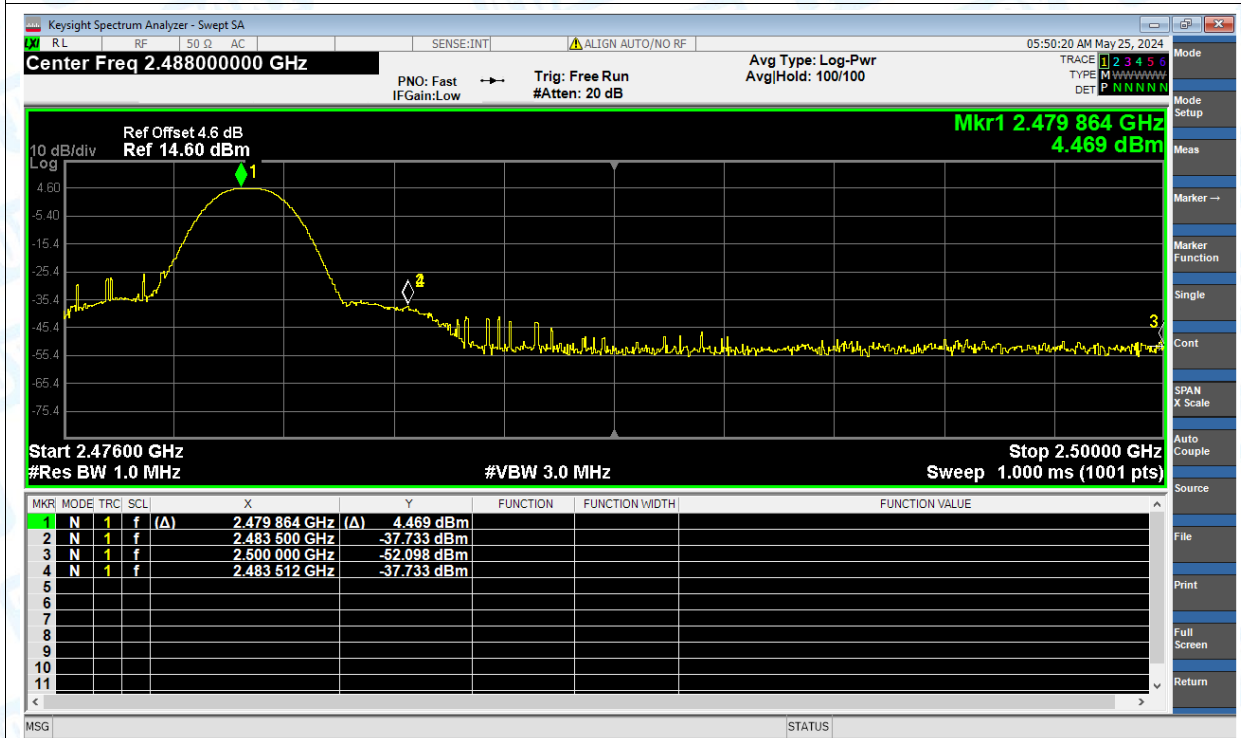
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



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



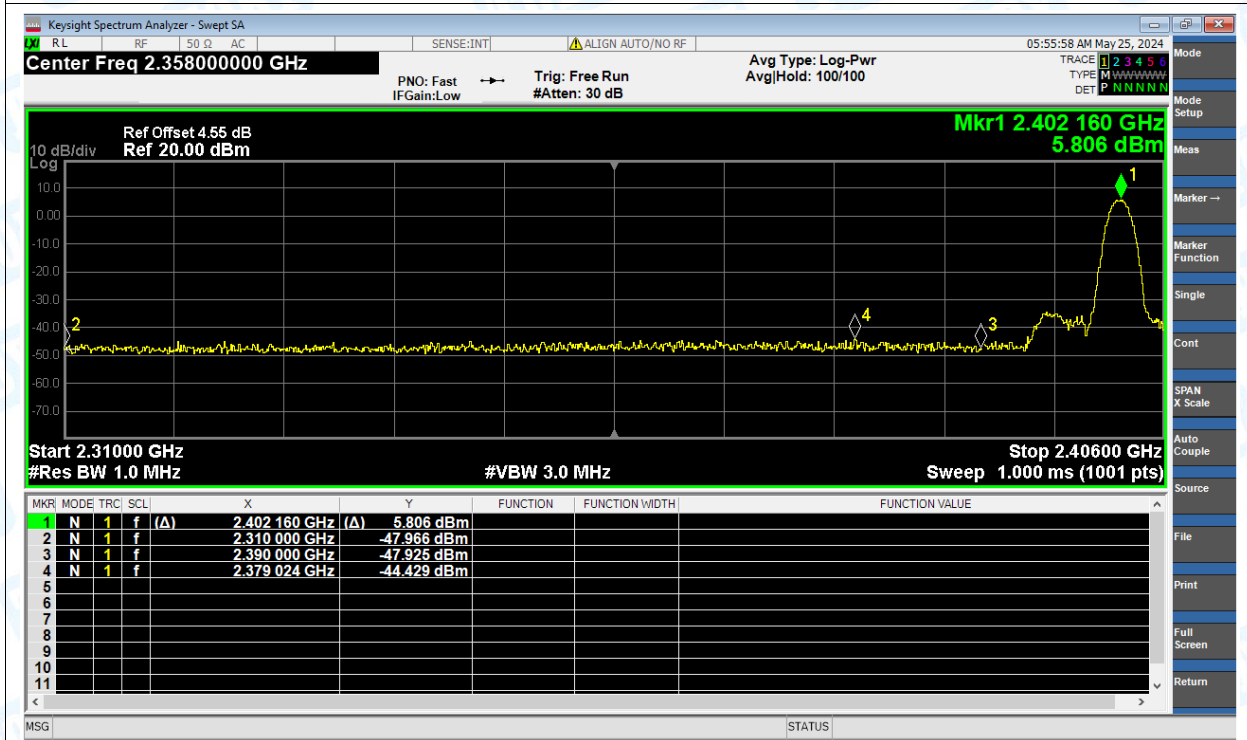
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



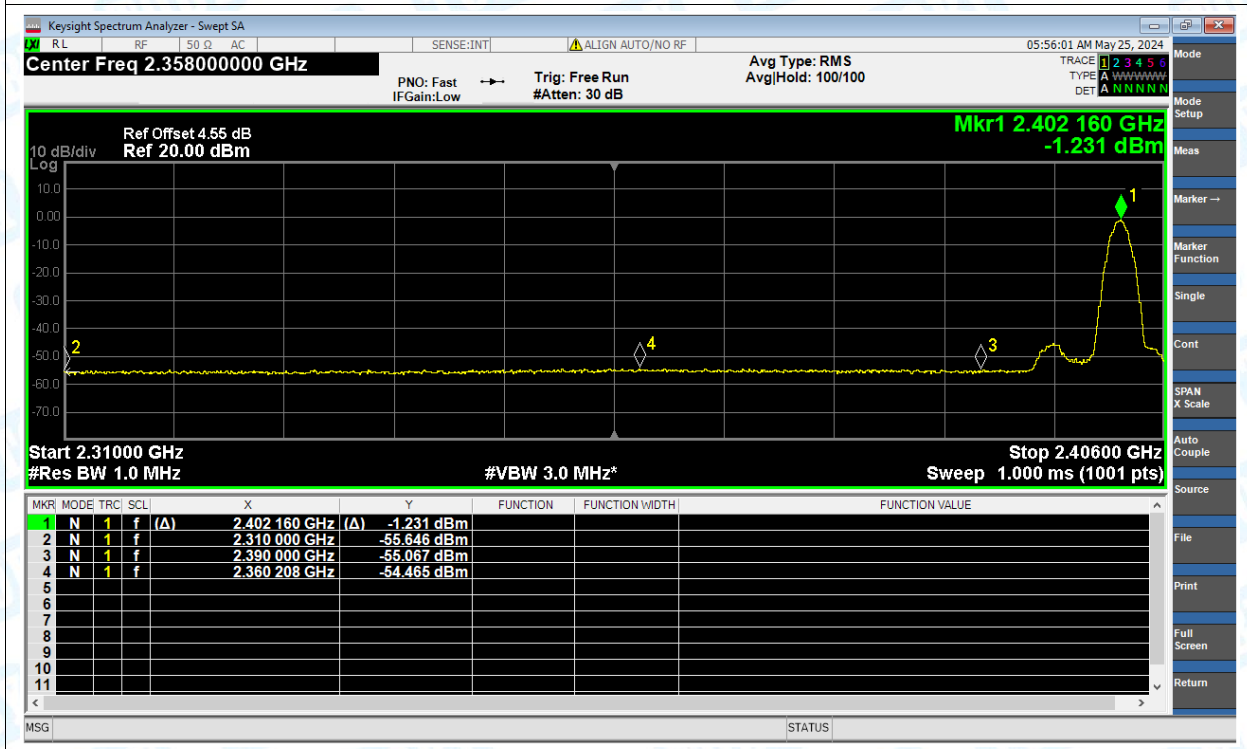
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



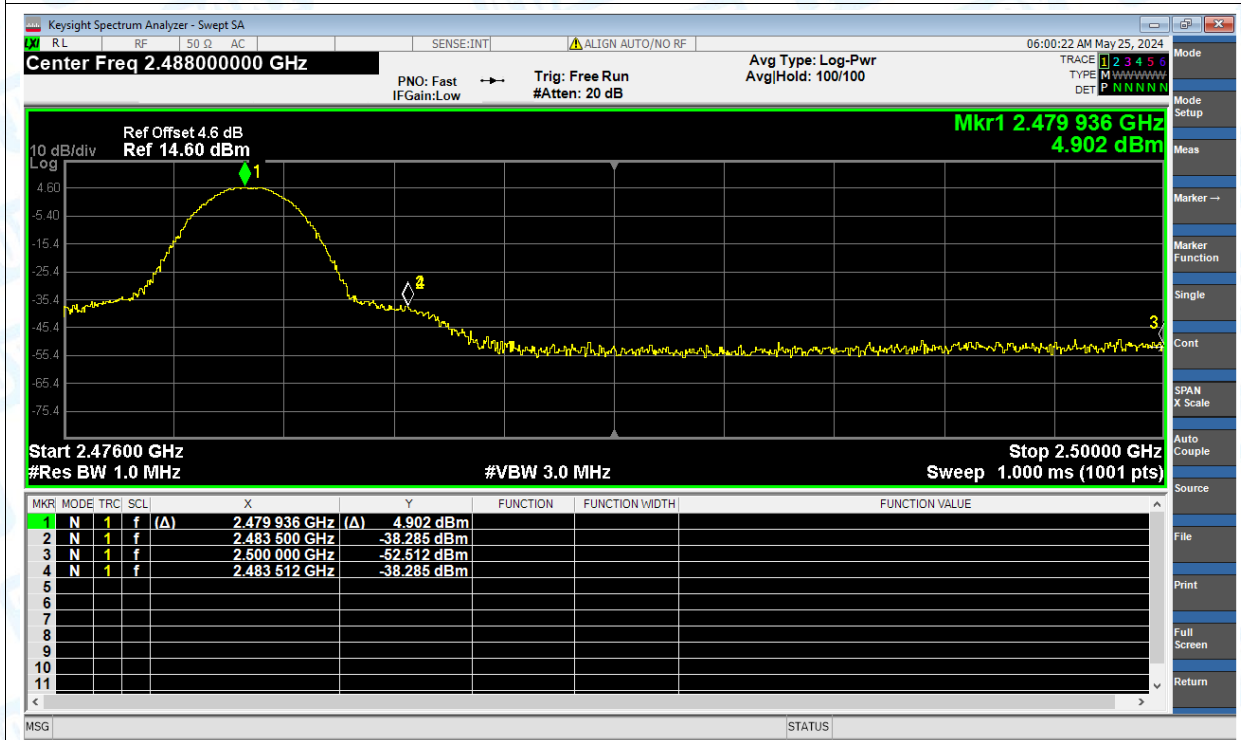
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



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



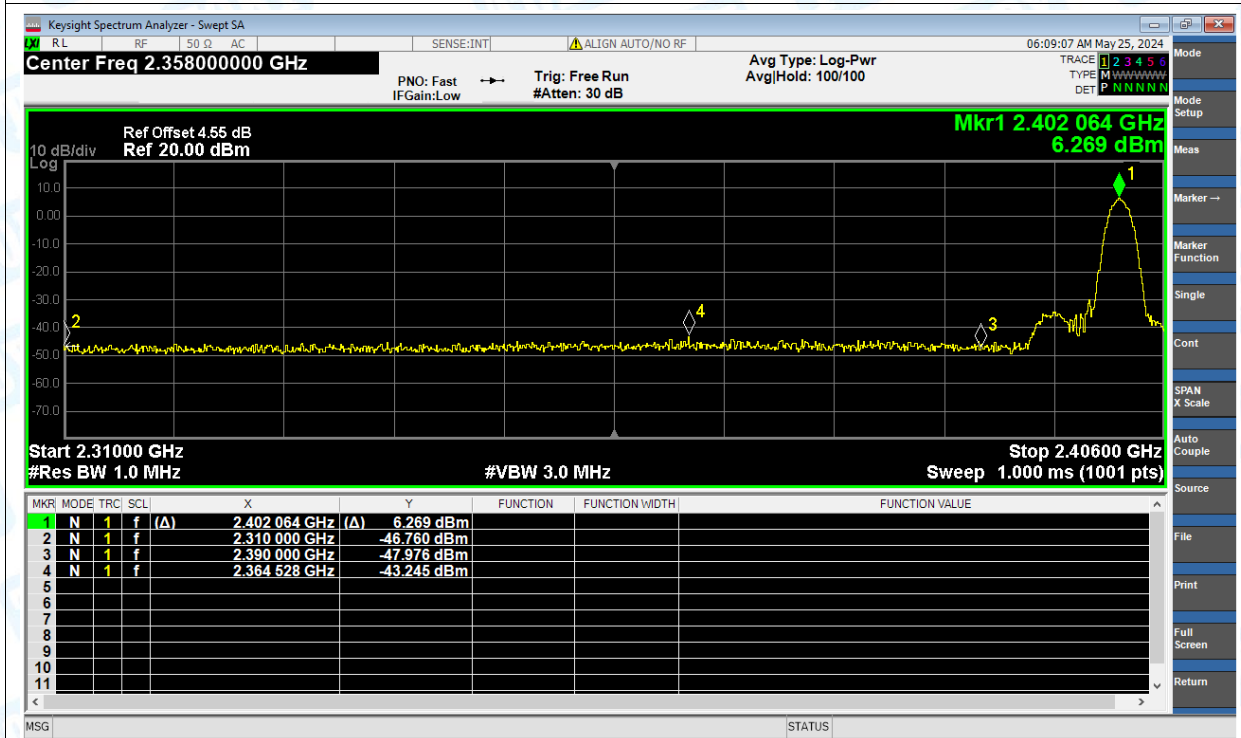
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



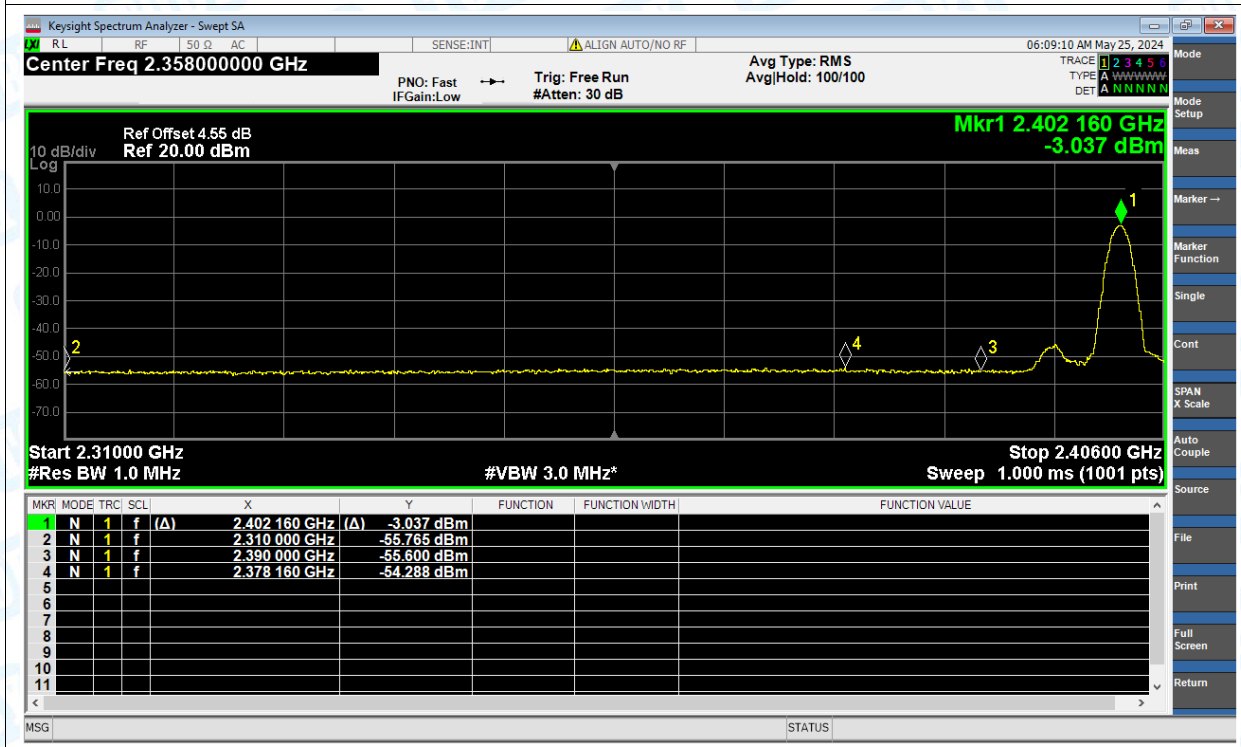
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



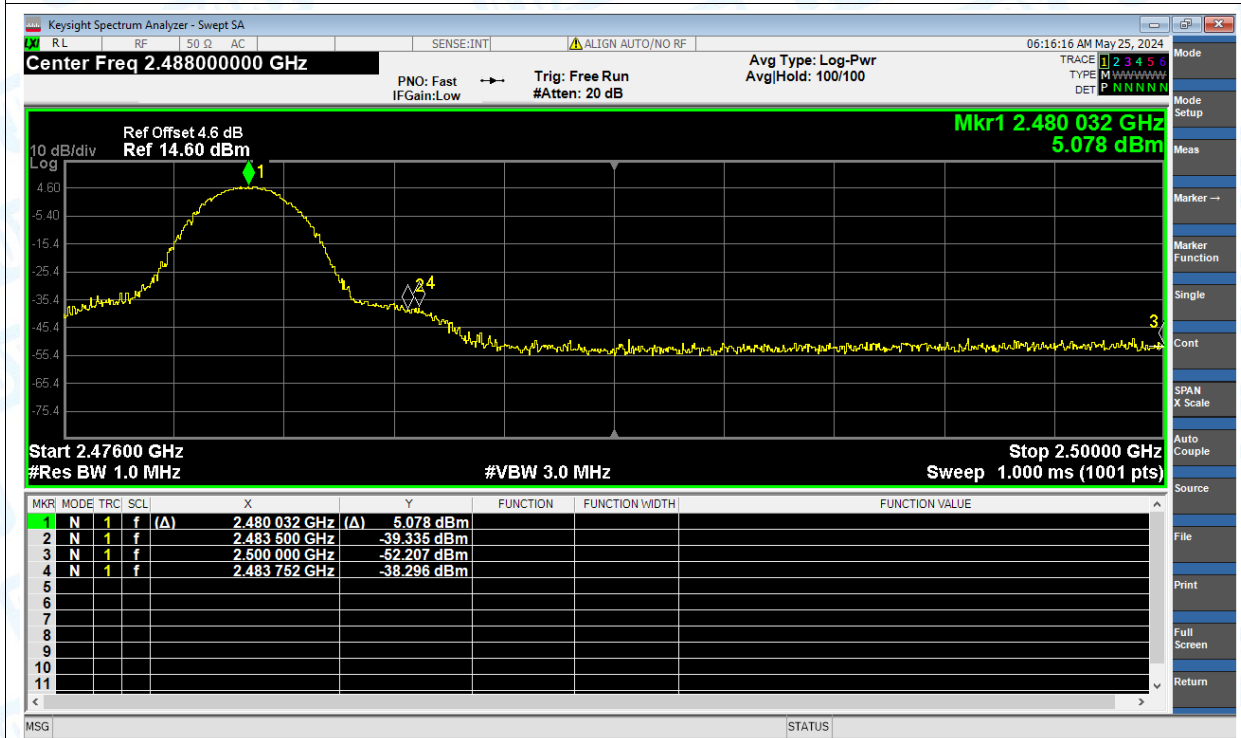
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



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

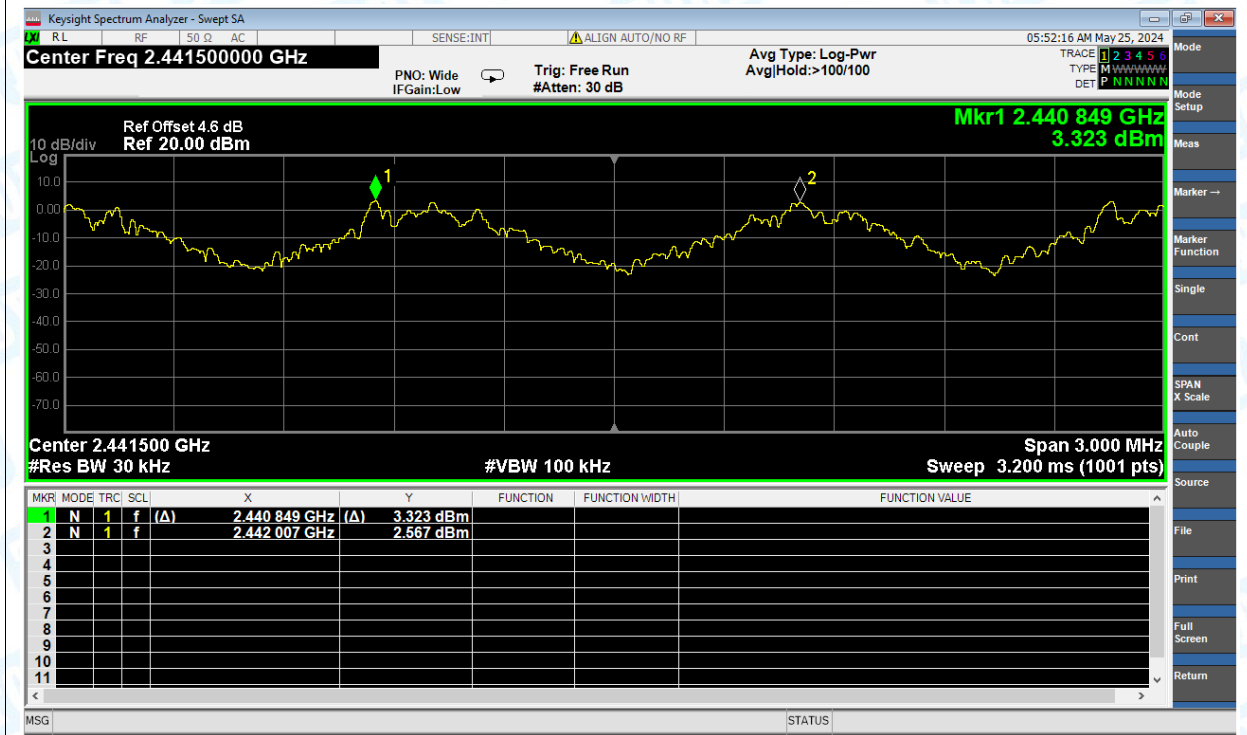


9. Carrier Frequencies Separation

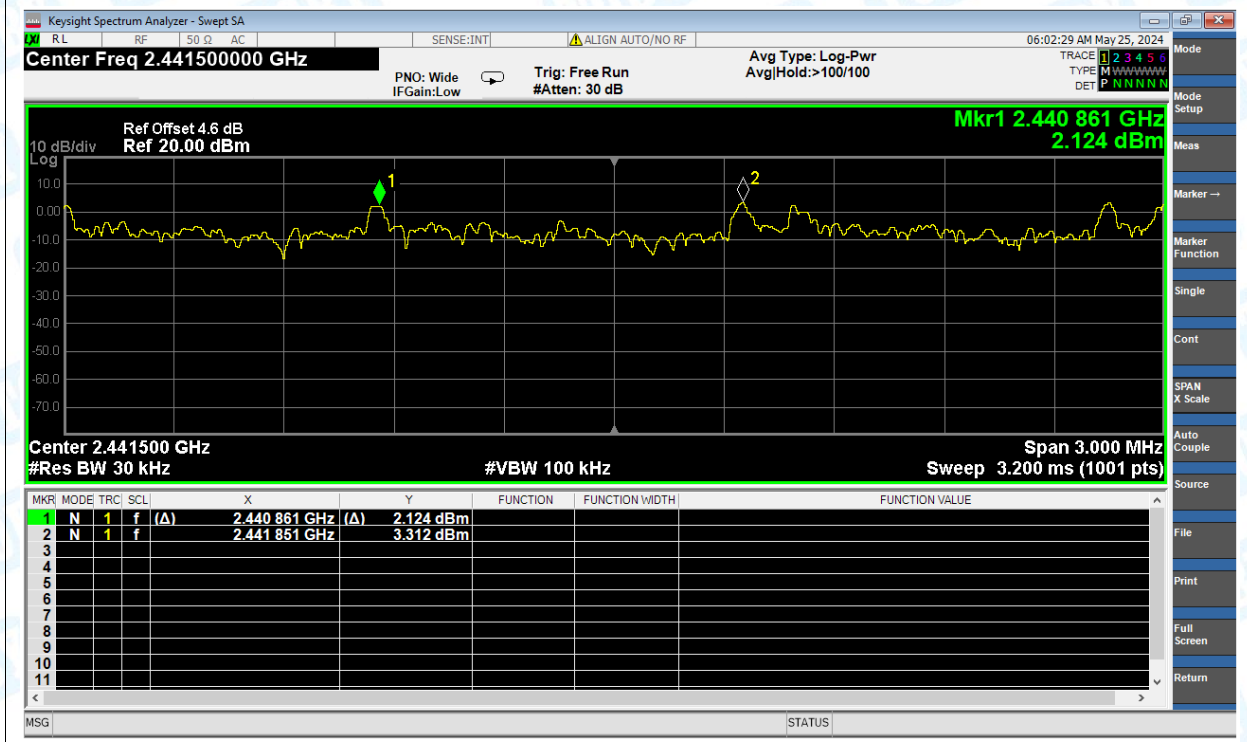
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.849	2442.007	1.158	0.587	Pass
NVNT	2-DH1	Ant1	2440.861	2441.851	0.99	0.827	Pass
NVNT	3-DH1	Ant1	2441.005	2442.001	0.996	0.82	Pass

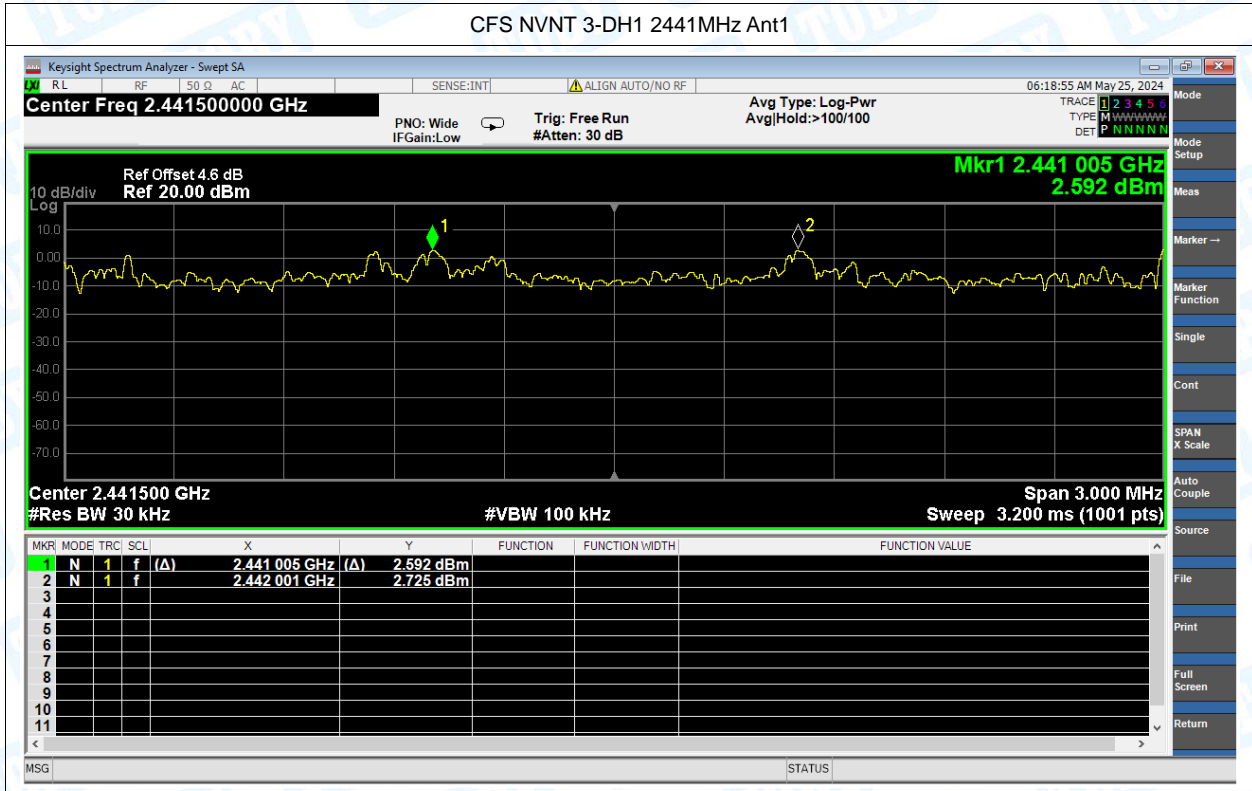
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



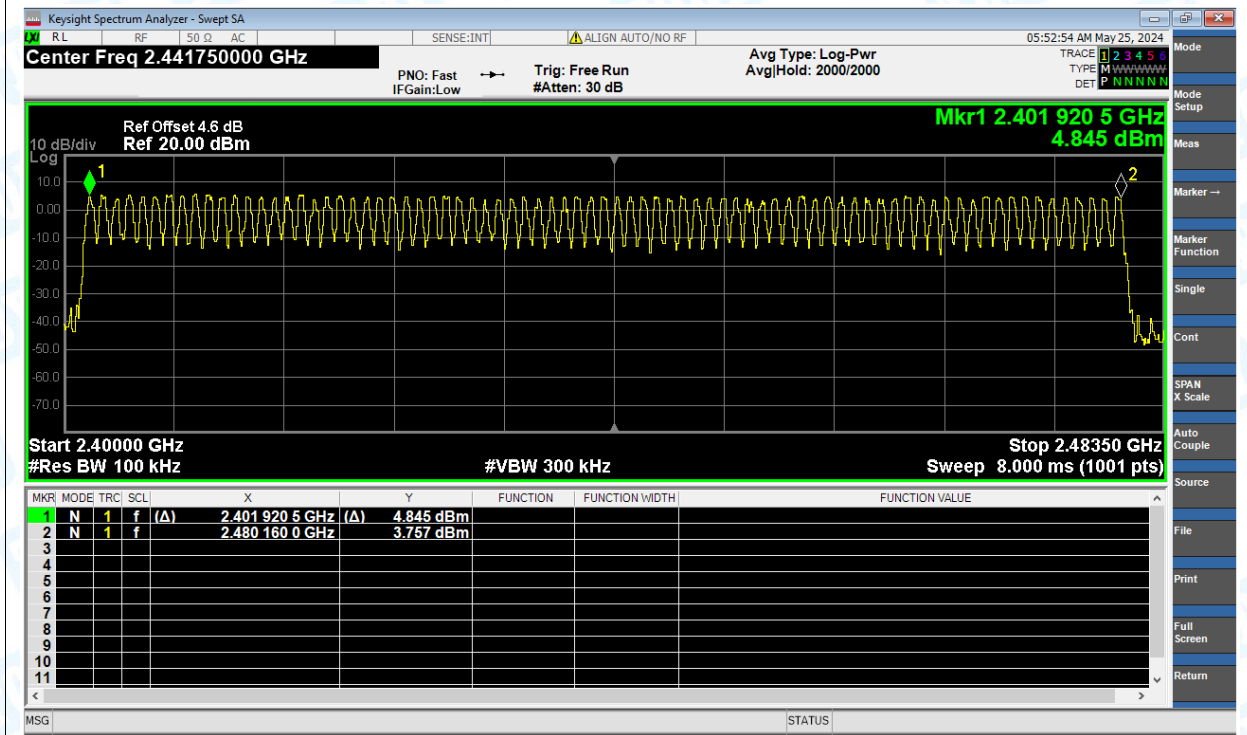


10. Number of Hopping Channel

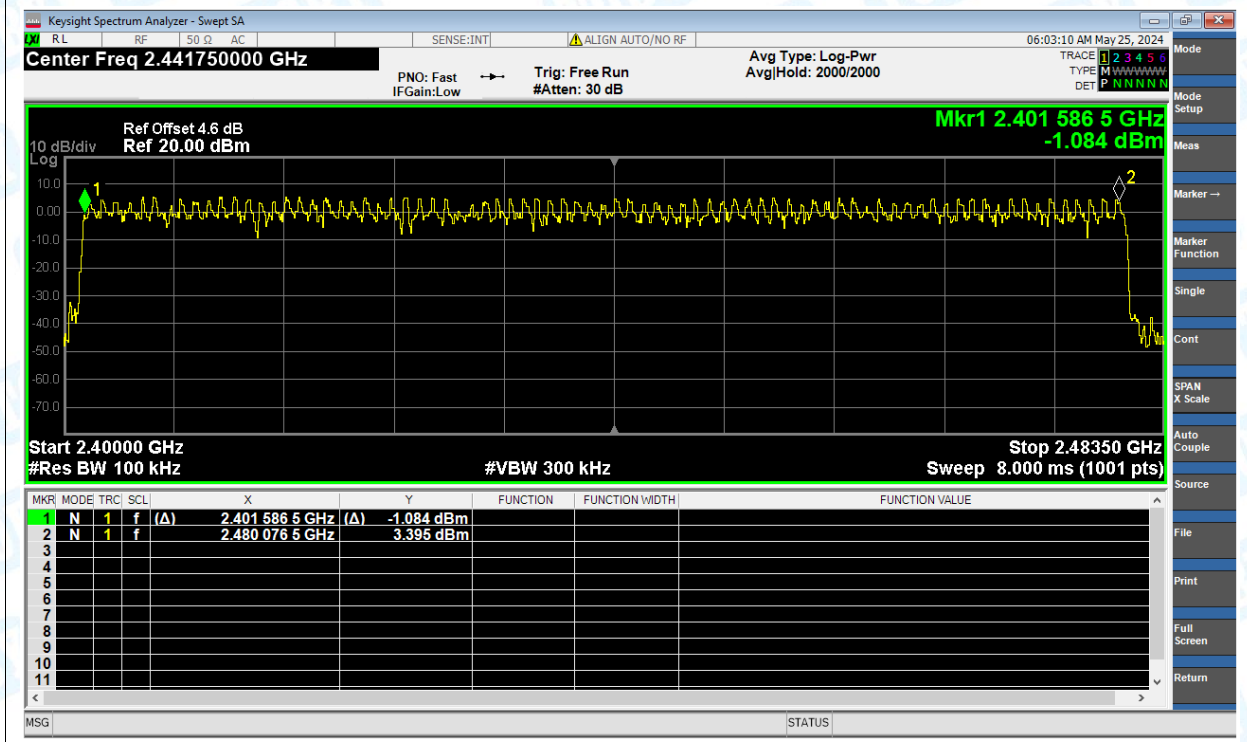
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

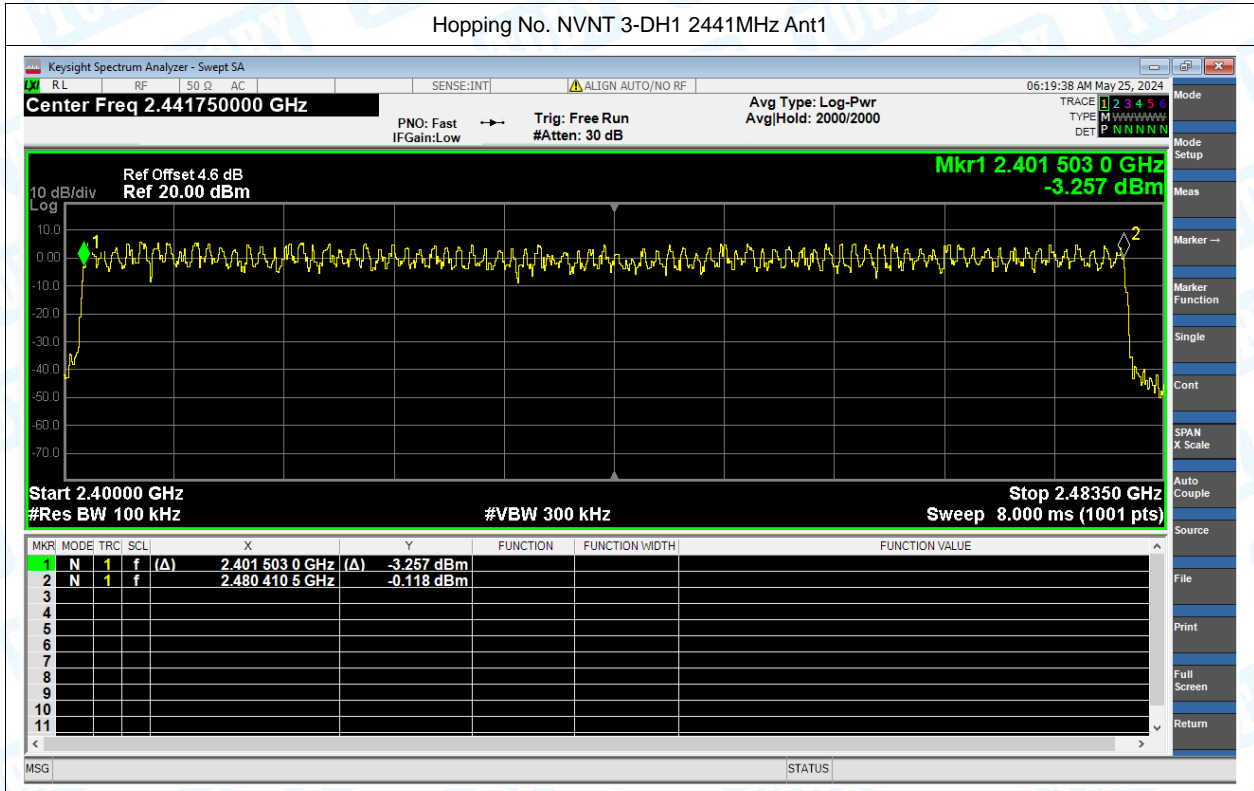
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



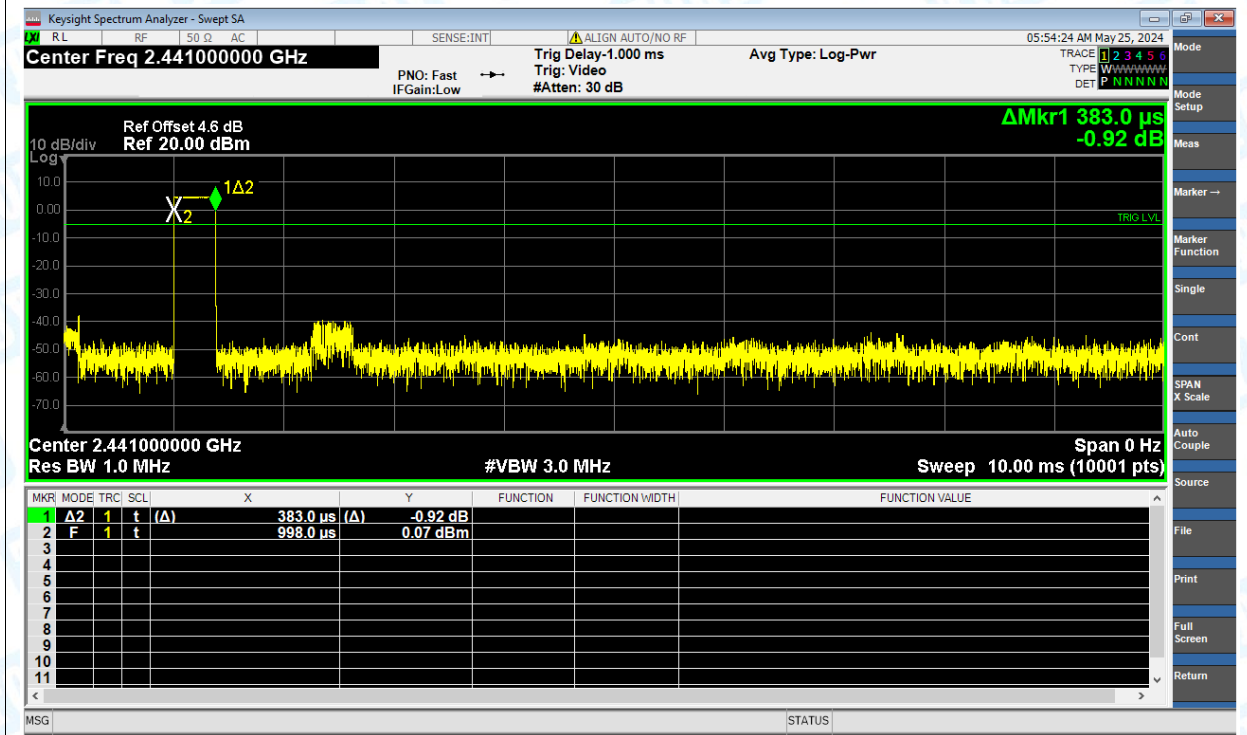


11. Dwell Time

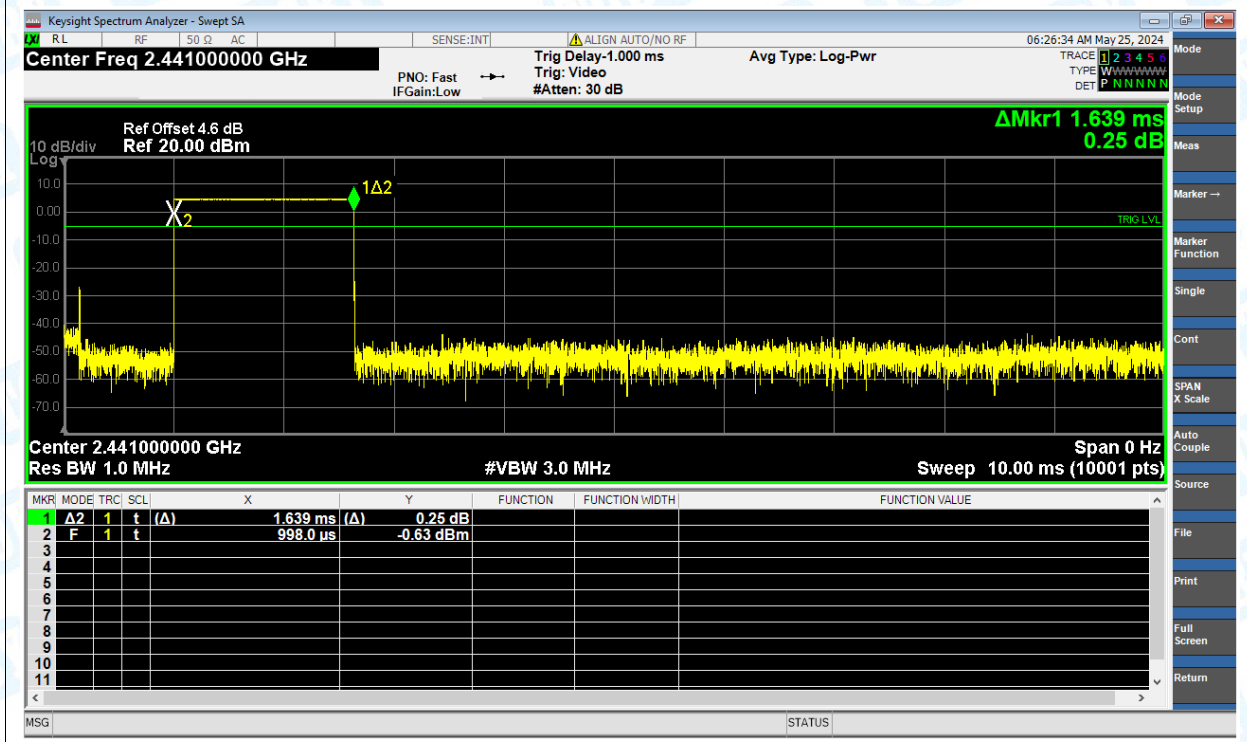
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	308.373	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.641	262.56	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.894	308.693	31600	400	Pass

Test Graphs

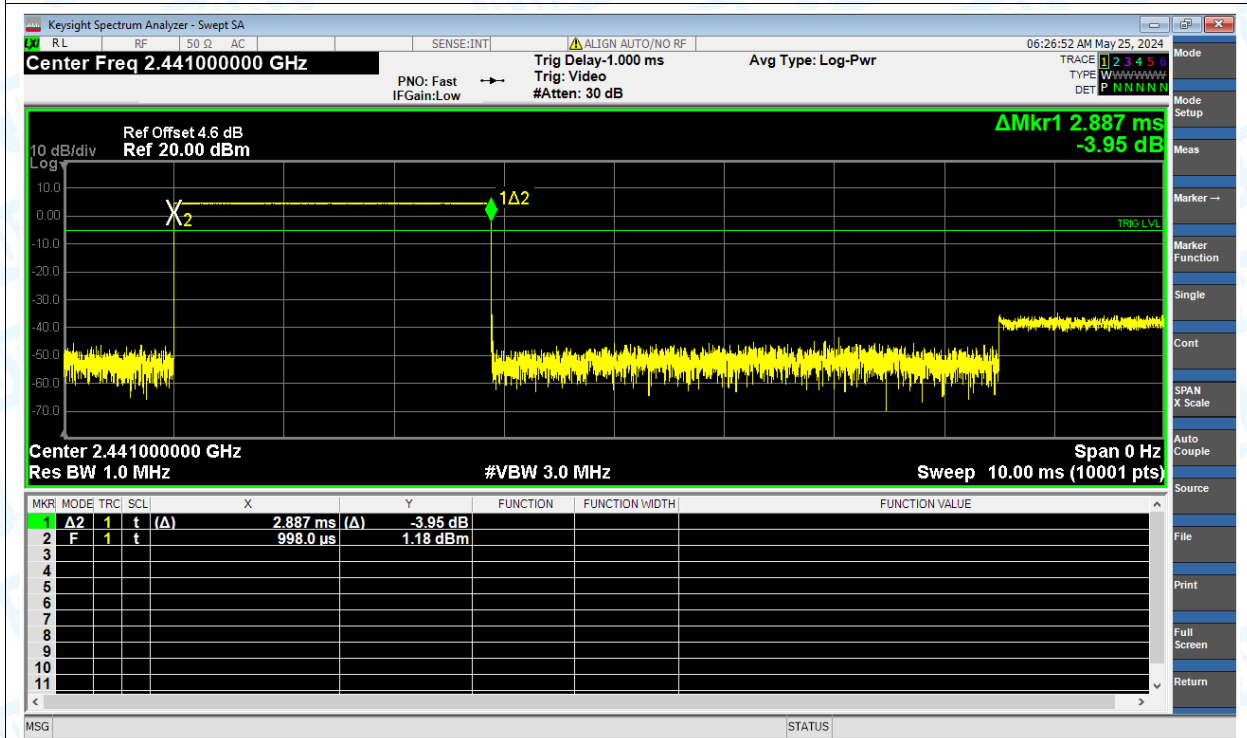
Dwell NVNT 1-DH1 2441MHz Ant1



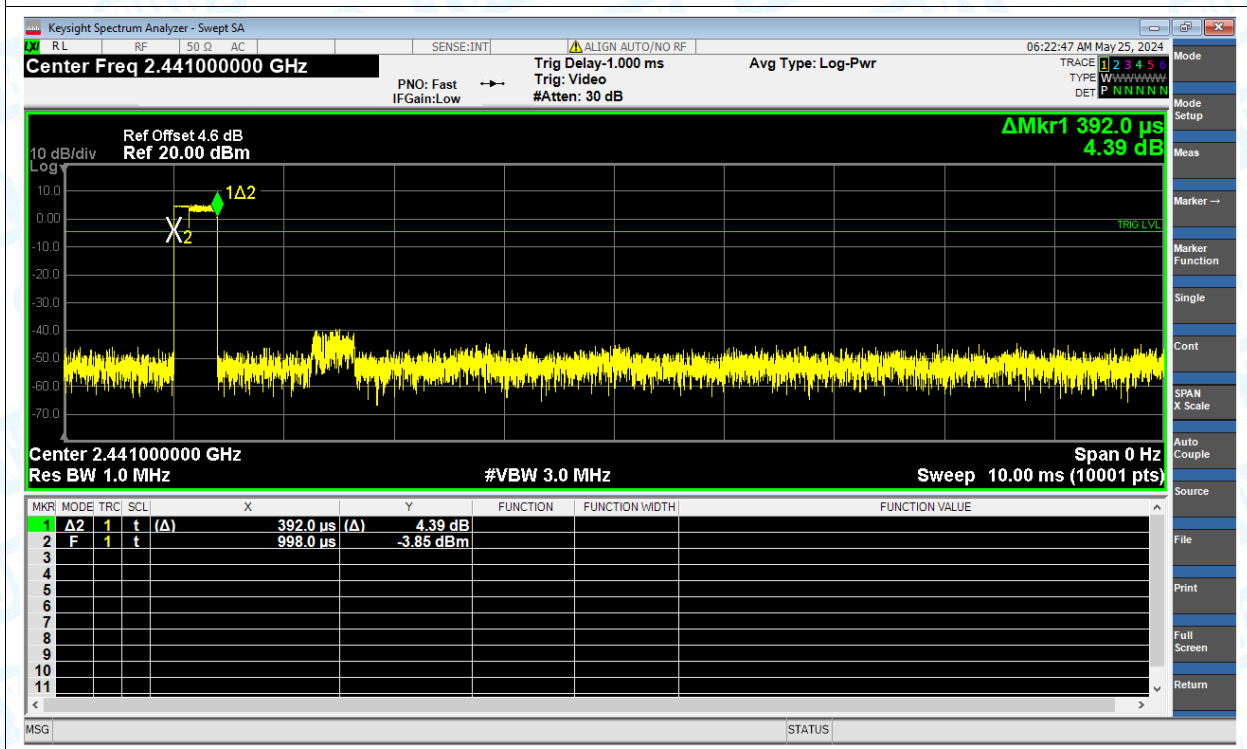
Dwell NVNT 1-DH3 2441MHz Ant1



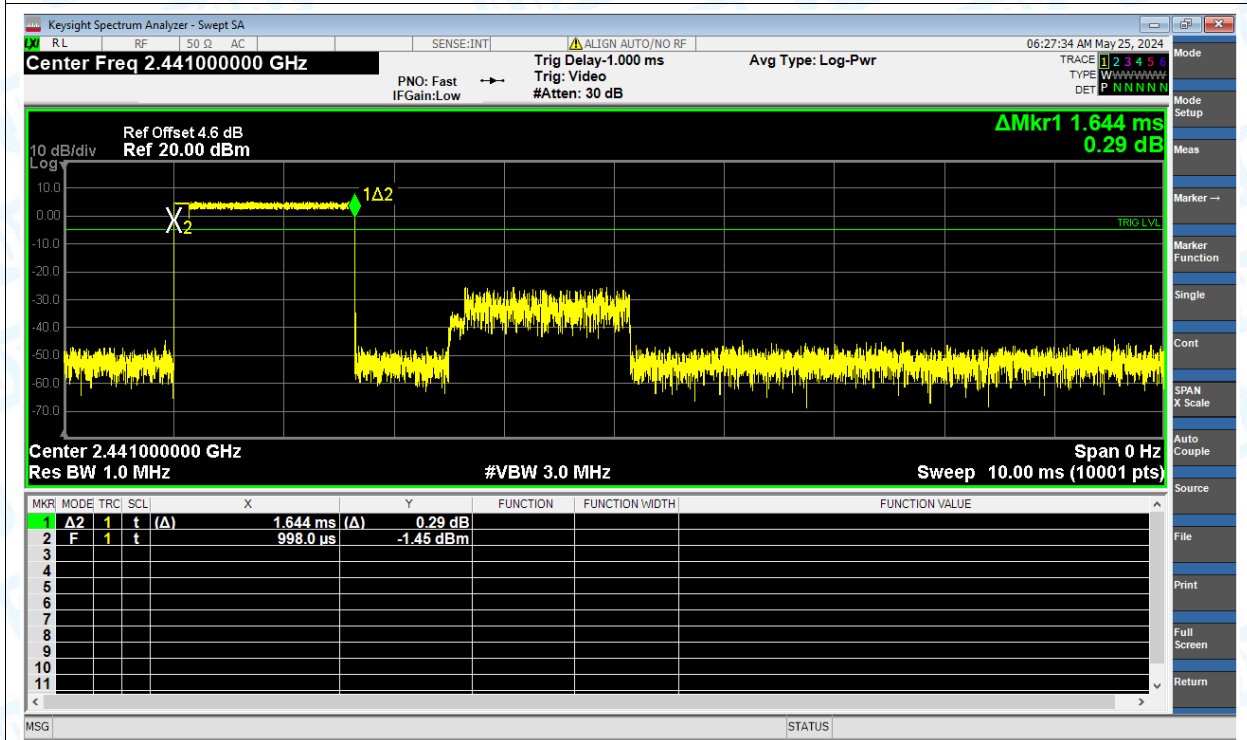
Dwell NVNT 1-DH5 2441MHz Ant1



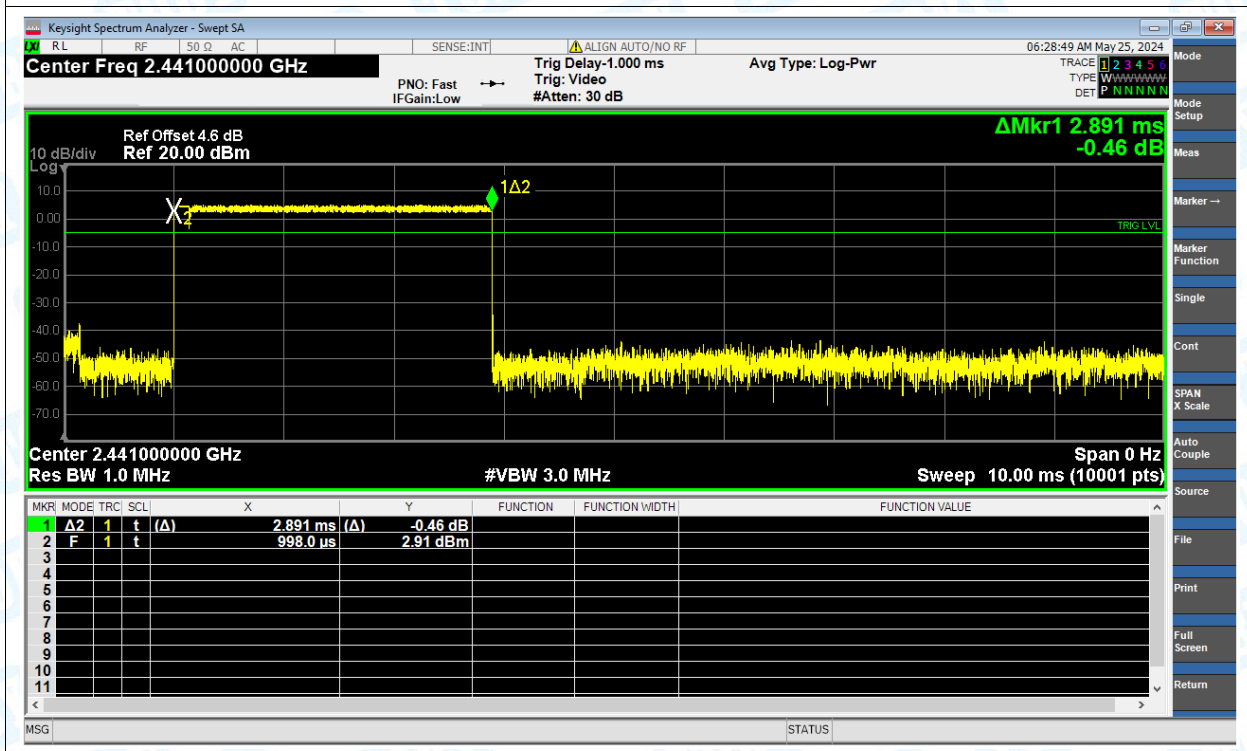
Dwell NVNT 2-DH1 2441MHz Ant1



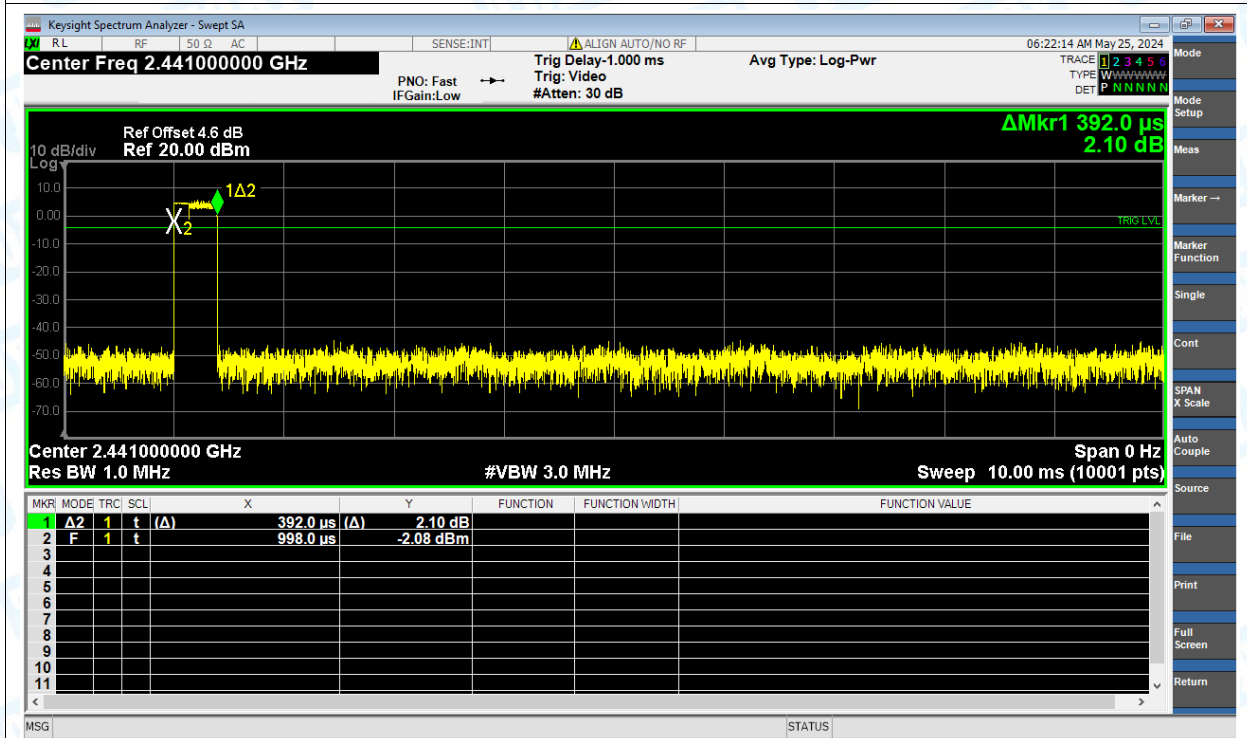
Dwell NVNT 2-DH3 2441MHz Ant1



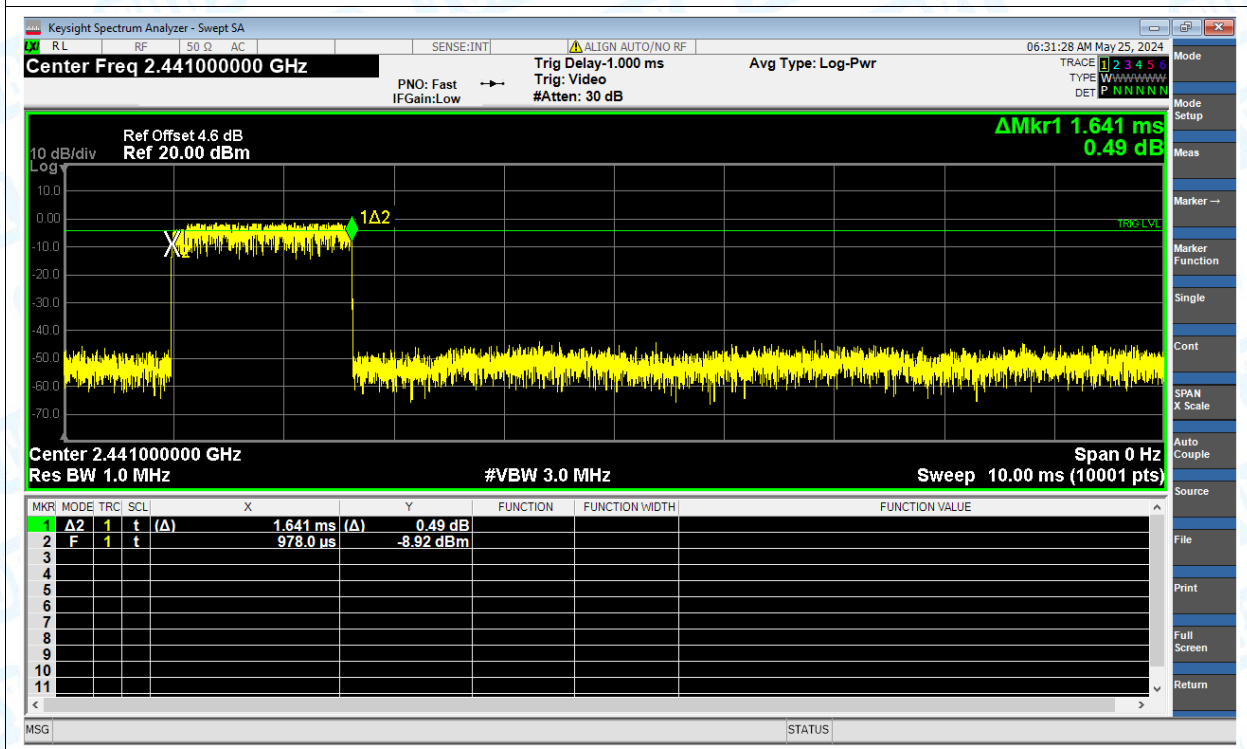
Dwell NVNT 2-DH5 2441MHz Ant1

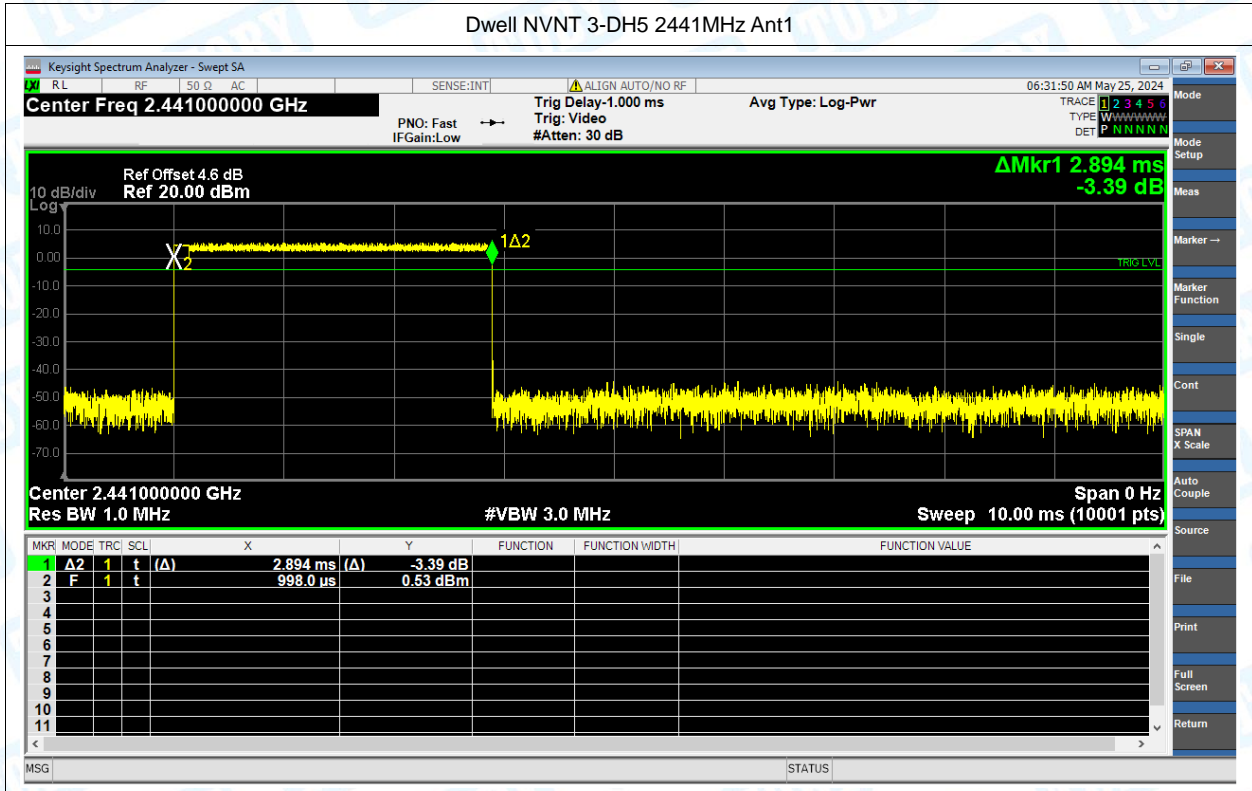


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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