

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Kids Tablet
Test Model:	Q82K
Sample ID:	202408-0260-4-2#
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 3.85V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202408-0260-91 The report only show the worst case data.	

Contents

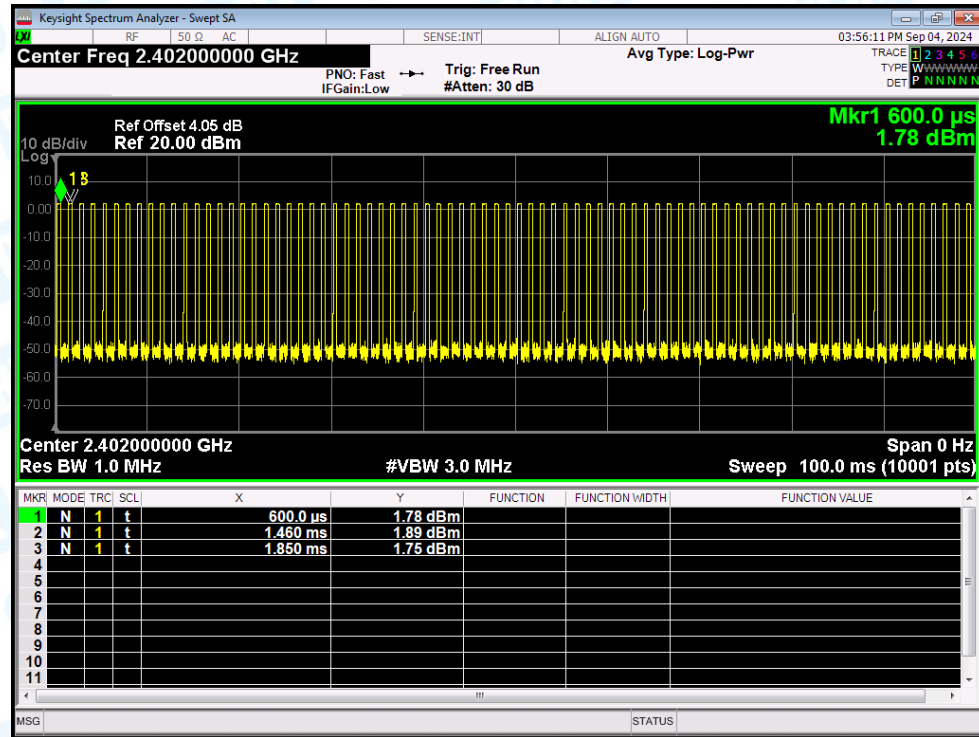
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1. Duty Cycle

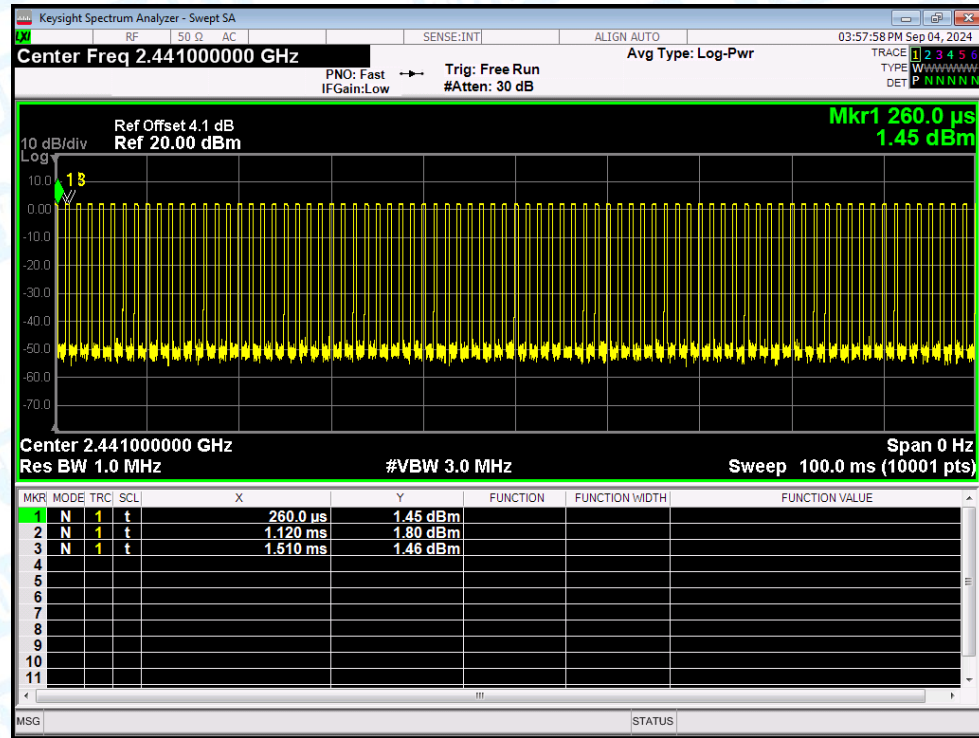
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63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

Test Graphs

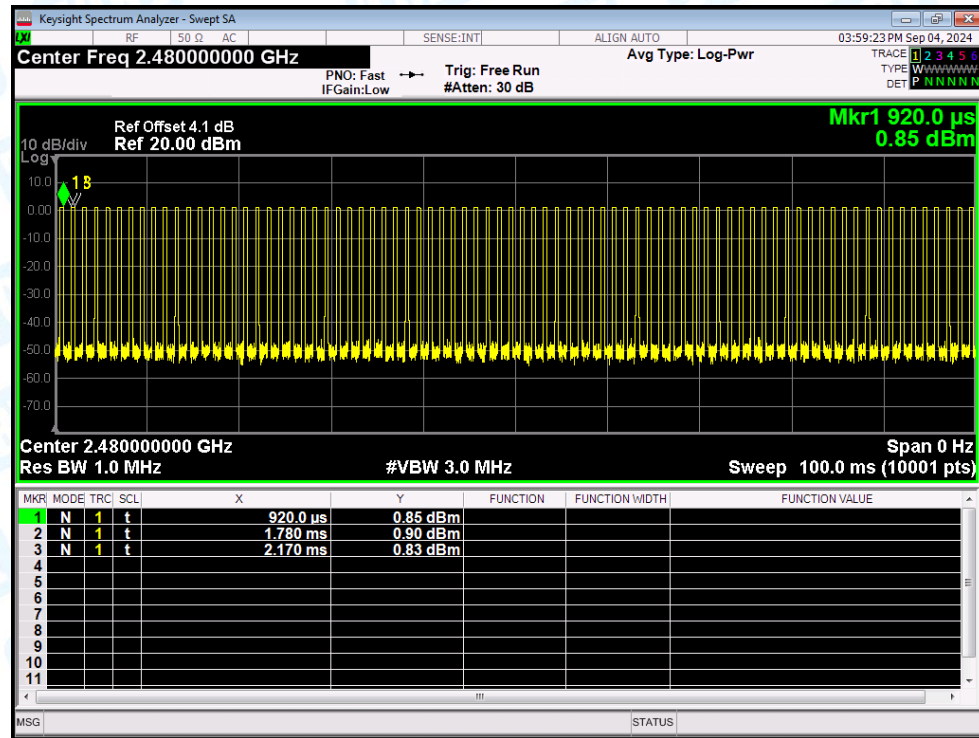
Duty Cycle NVNT 1-DH1 2402MHz Ant1



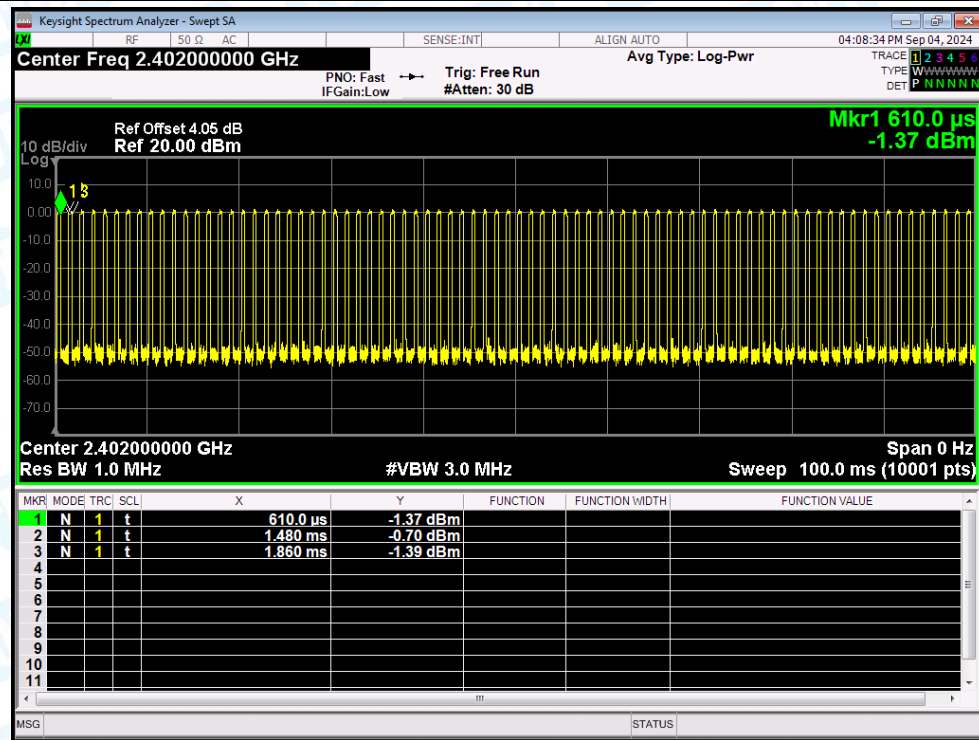
Duty Cycle NVNT 1-DH1 2441MHz Ant1



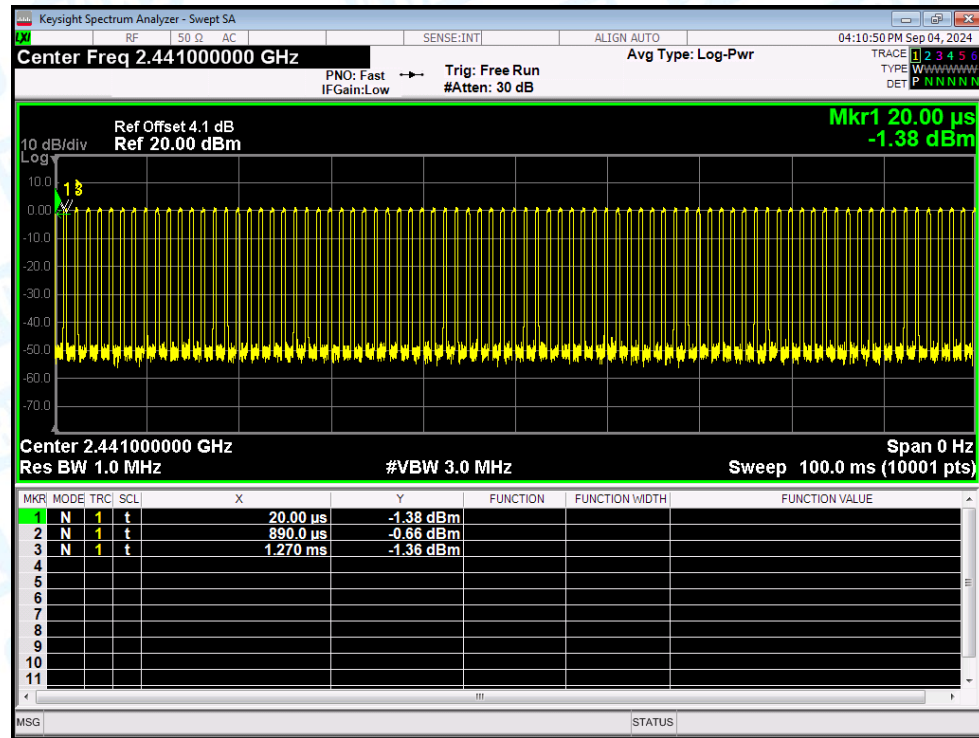
Duty Cycle NVNT 1-DH1 2480MHz Ant1



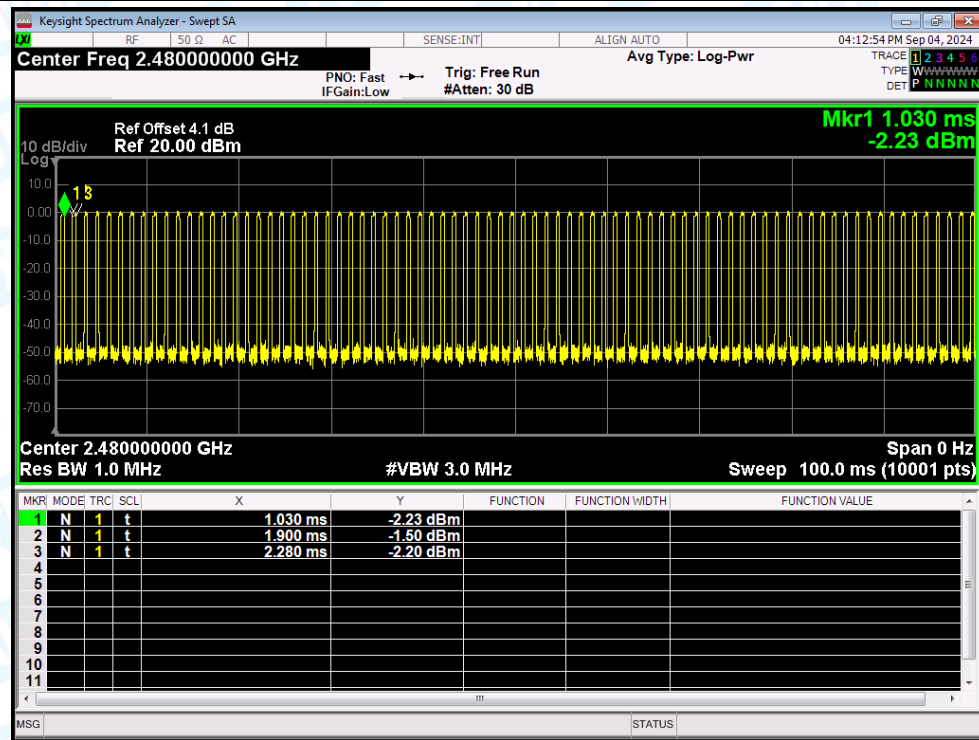
Duty Cycle NVNT 2-DH1 2402MHz Ant1



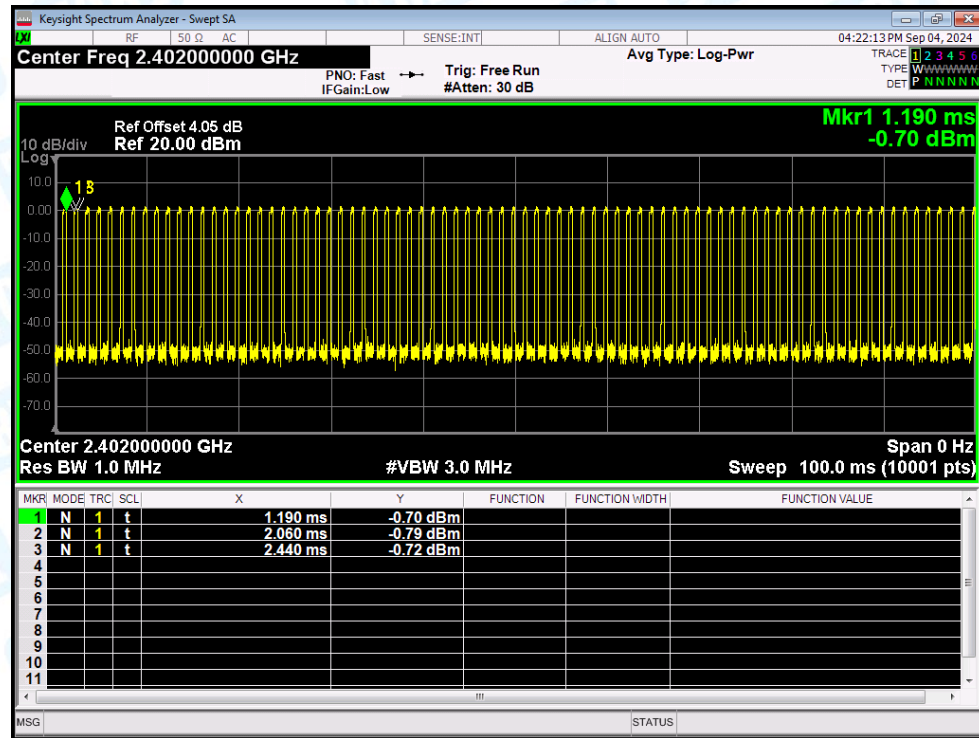
Duty Cycle NVNT 2-DH1 2441MHz Ant1



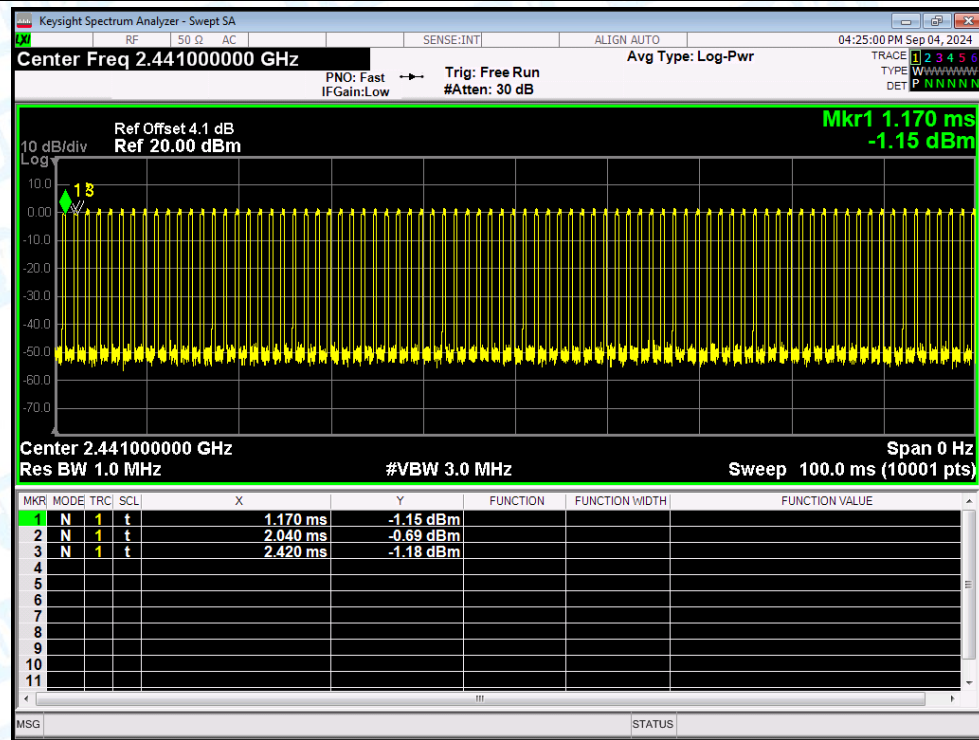
Duty Cycle NVNT 2-DH1 2480MHz Ant1

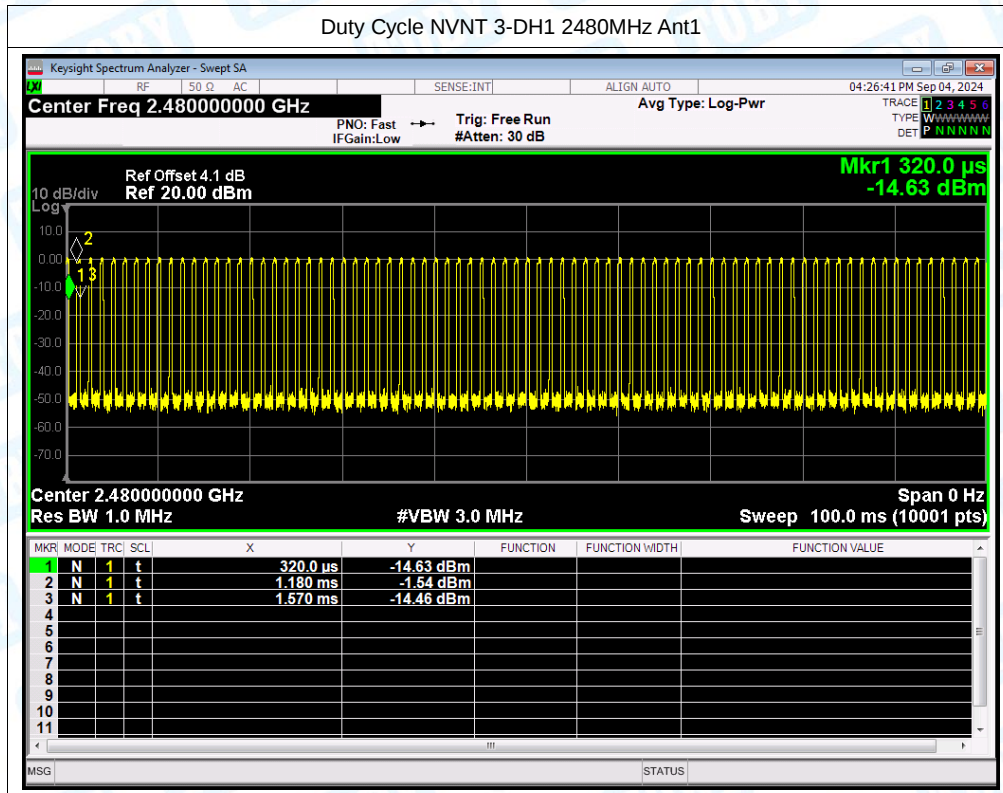


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



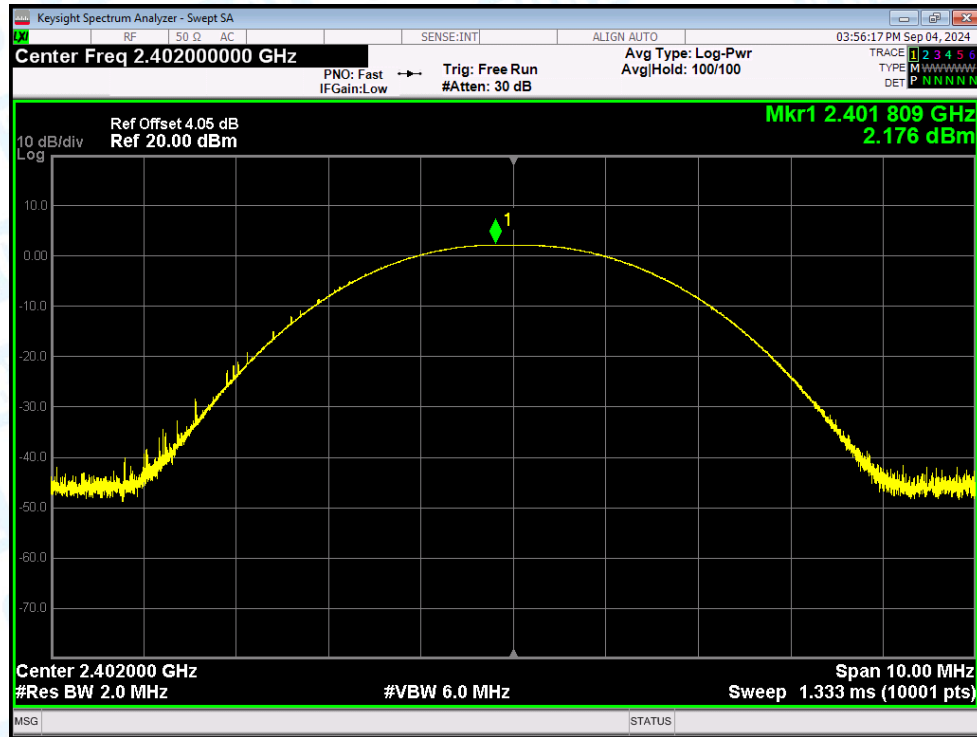


2. Maximum Conducted Output Power

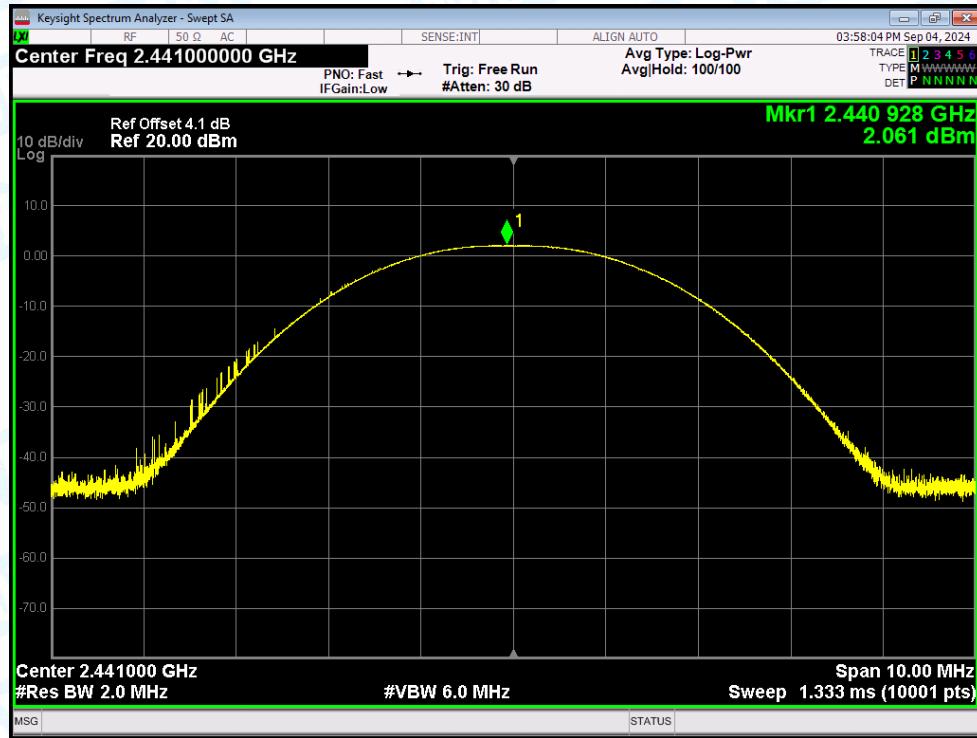
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.176	21	Pass
NVNT	1-DH1	2441	Ant1	2.061	21	Pass
NVNT	1-DH1	2480	Ant1	1.331	21	Pass
NVNT	2-DH1	2402	Ant1	1.638	21	Pass
NVNT	2-DH1	2441	Ant1	1.701	21	Pass
NVNT	2-DH1	2480	Ant1	0.935	21	Pass
NVNT	3-DH1	2402	Ant1	1.952	21	Pass
NVNT	3-DH1	2441	Ant1	2.059	21	Pass
NVNT	3-DH1	2480	Ant1	1.32	21	Pass

Test Graphs

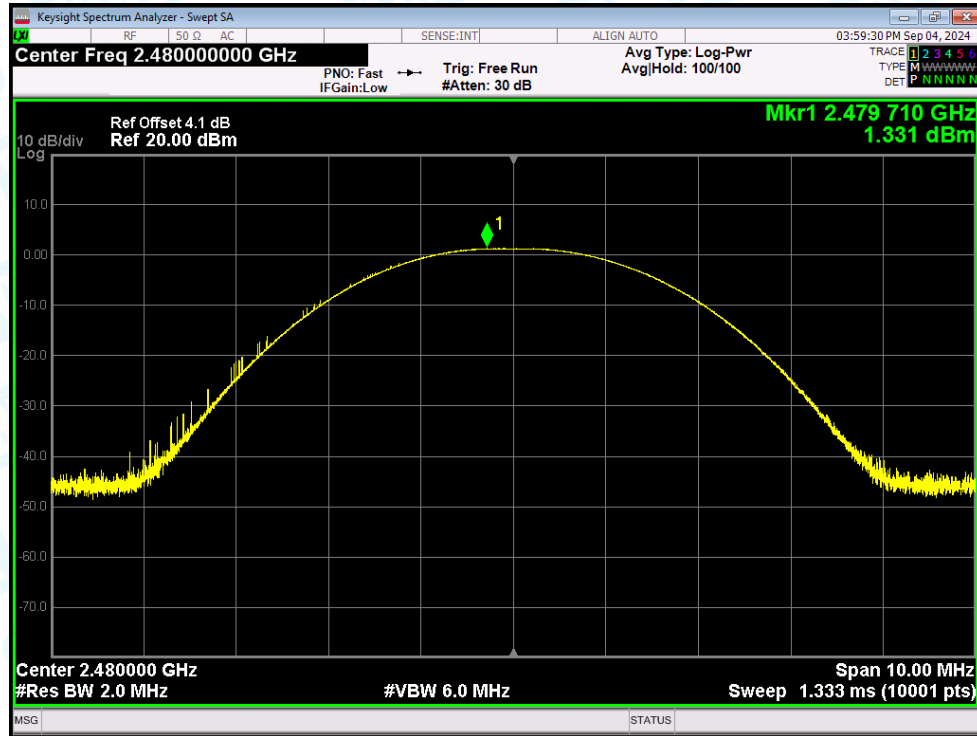
Power NVNT 1-DH1 2402MHz Ant1



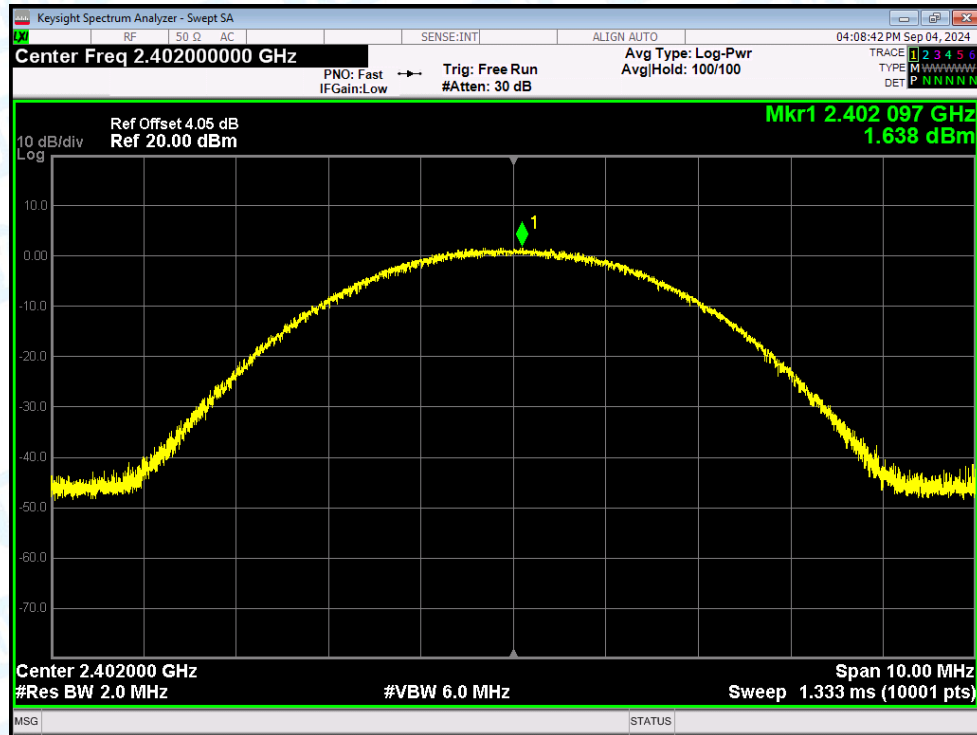
Power NVNT 1-DH1 2441MHz Ant1



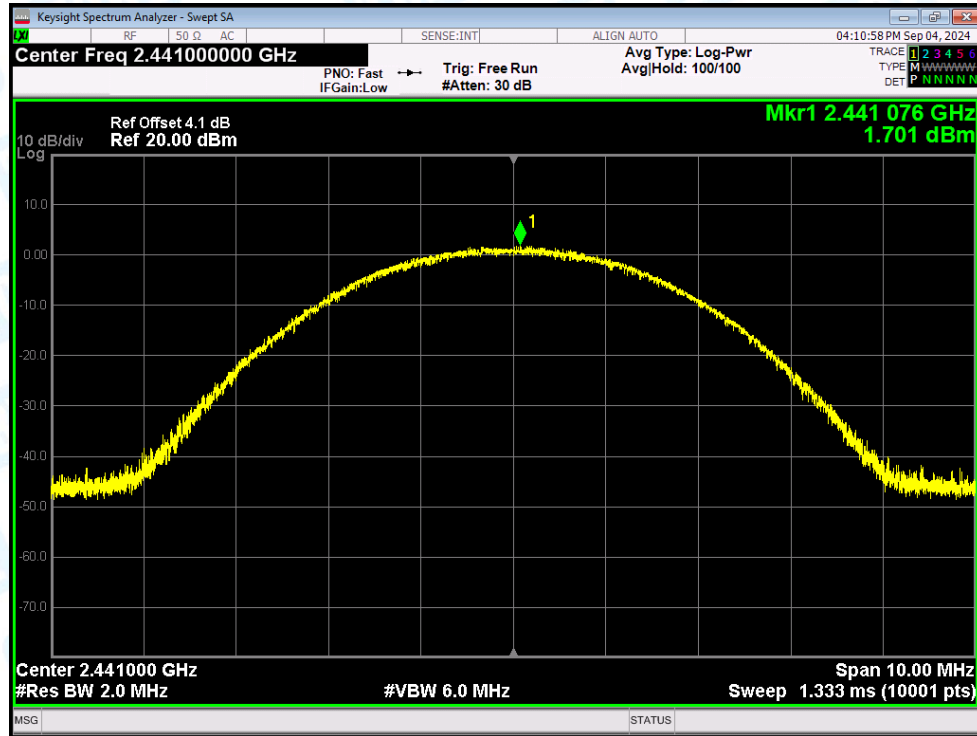
Power NVNT 1-DH1 2480MHz Ant1



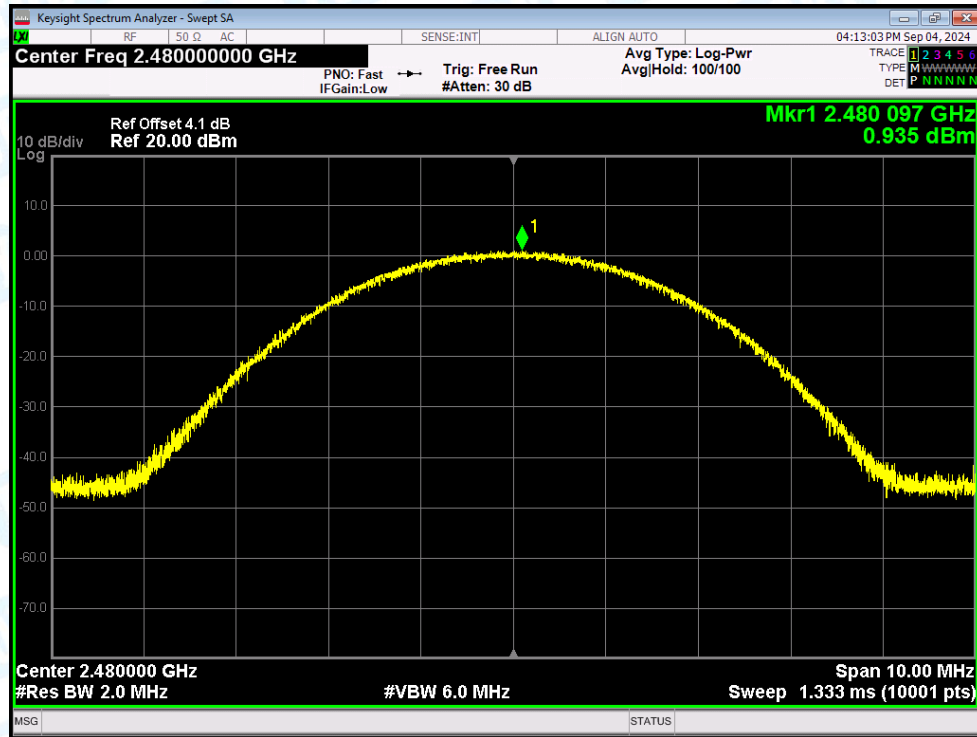
Power NVNT 2-DH1 2402MHz Ant1



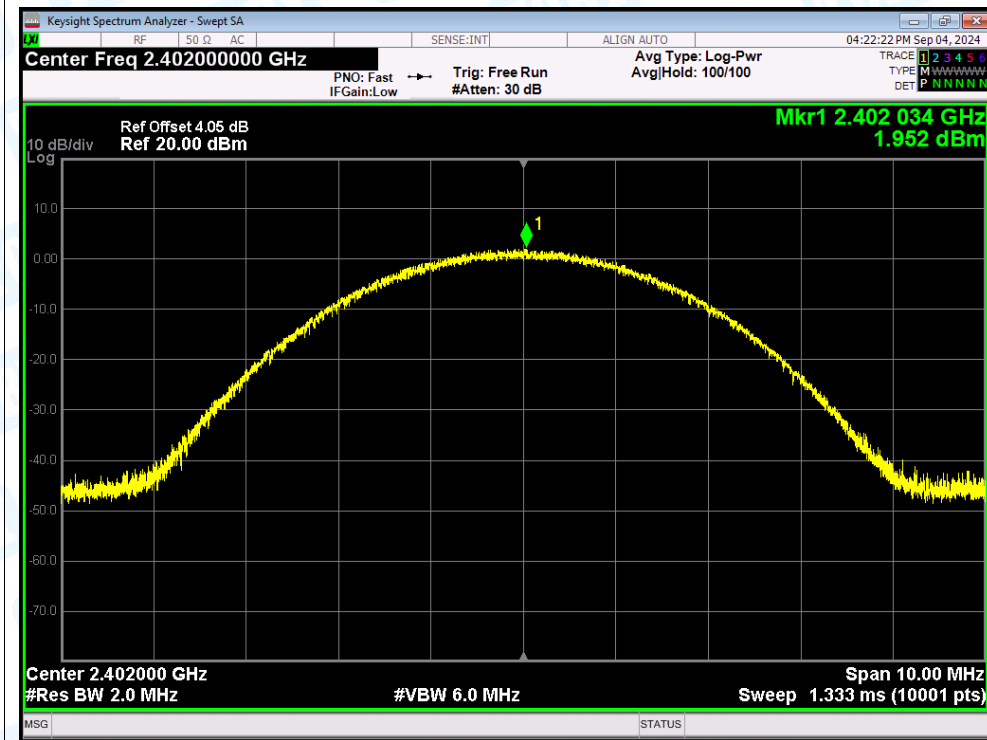
Power NVNT 2-DH1 2441MHz Ant1



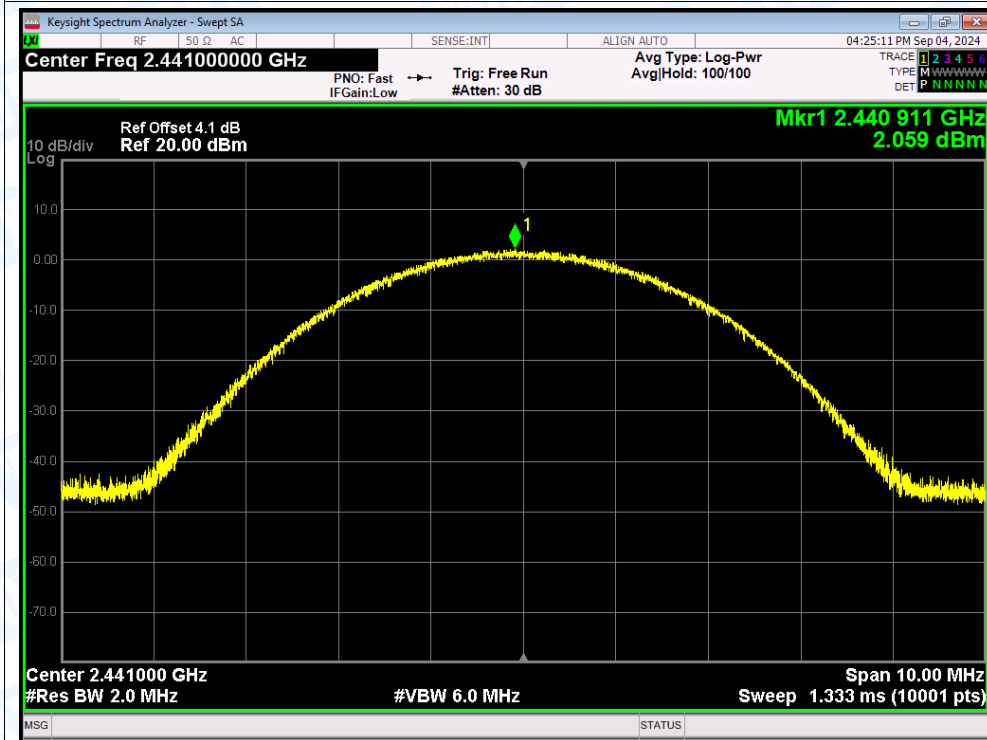
Power NVNT 2-DH1 2480MHz Ant1

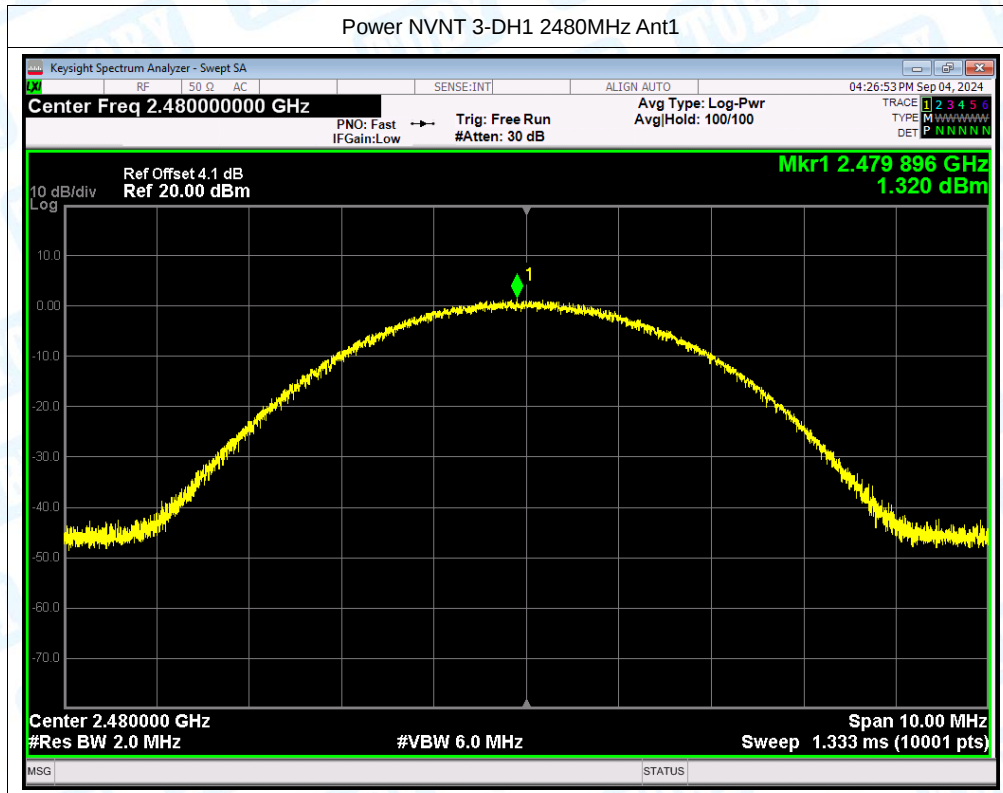


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



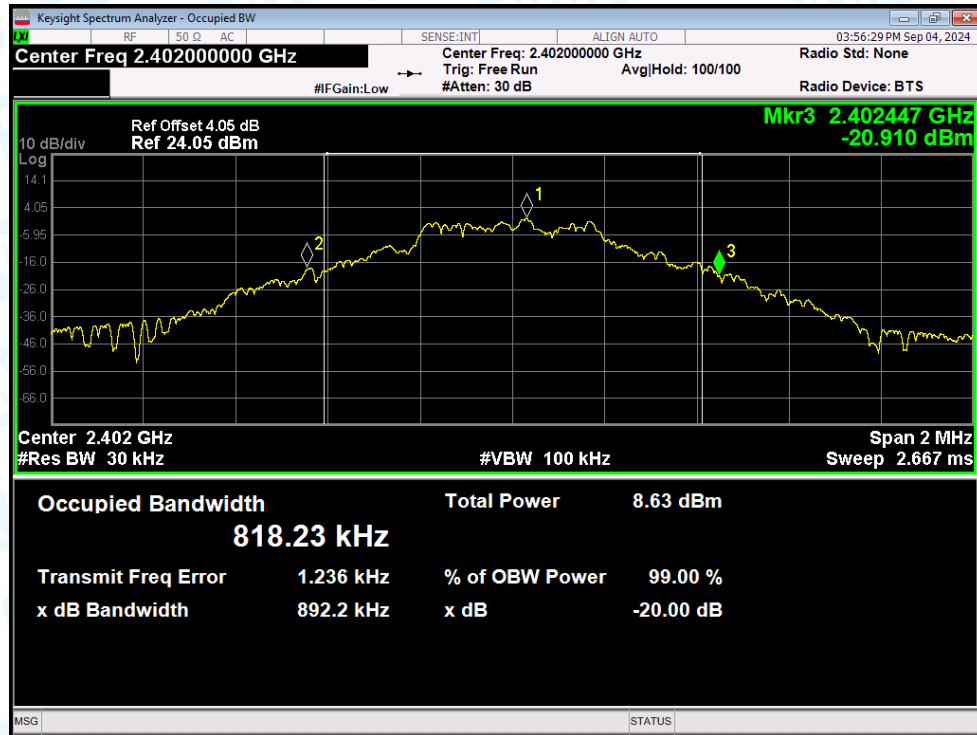


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.89	0	Pass
NVNT	1-DH1	2441	Ant1	0.86	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.27	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.26	0	Pass
NVNT	3-DH1	2441	Ant1	1.26	0	Pass
NVNT	3-DH1	2480	Ant1	1.25	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



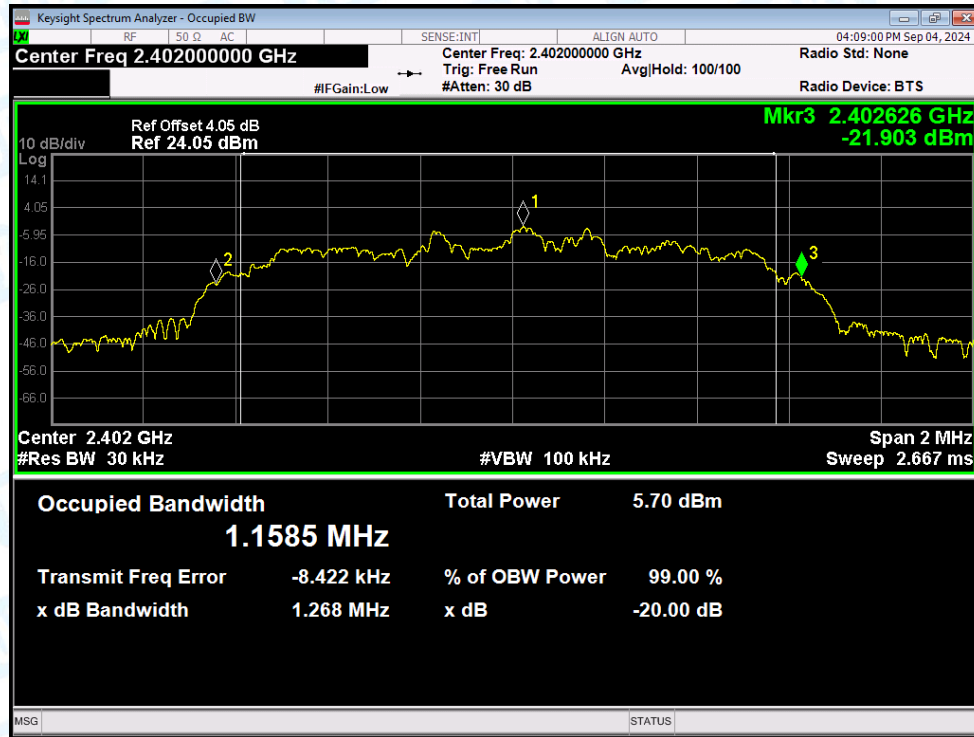
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



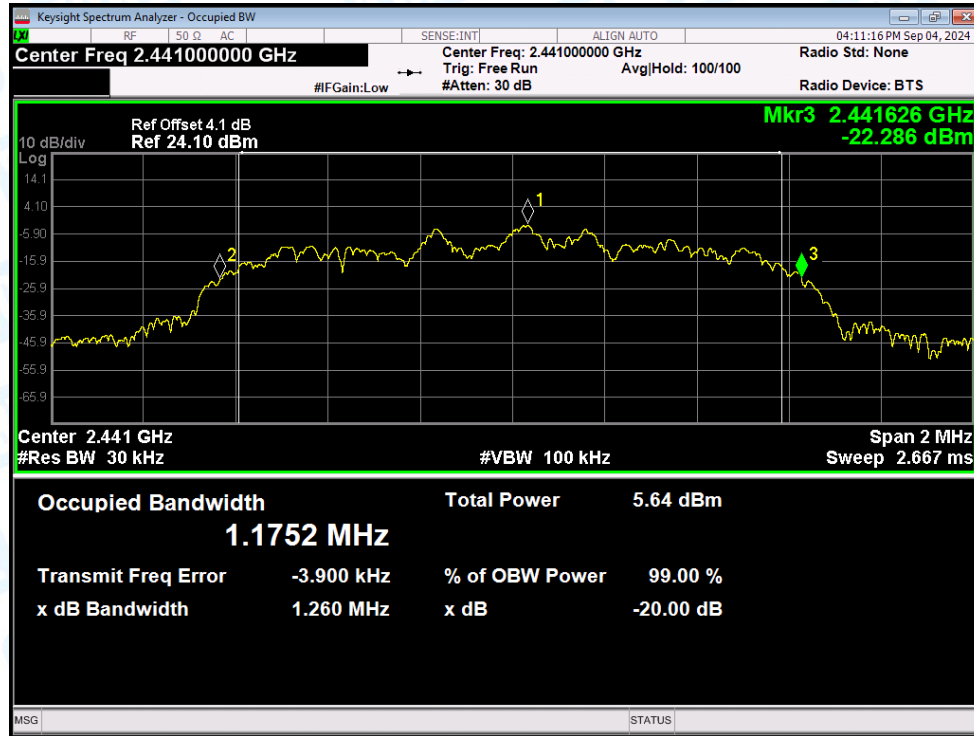
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



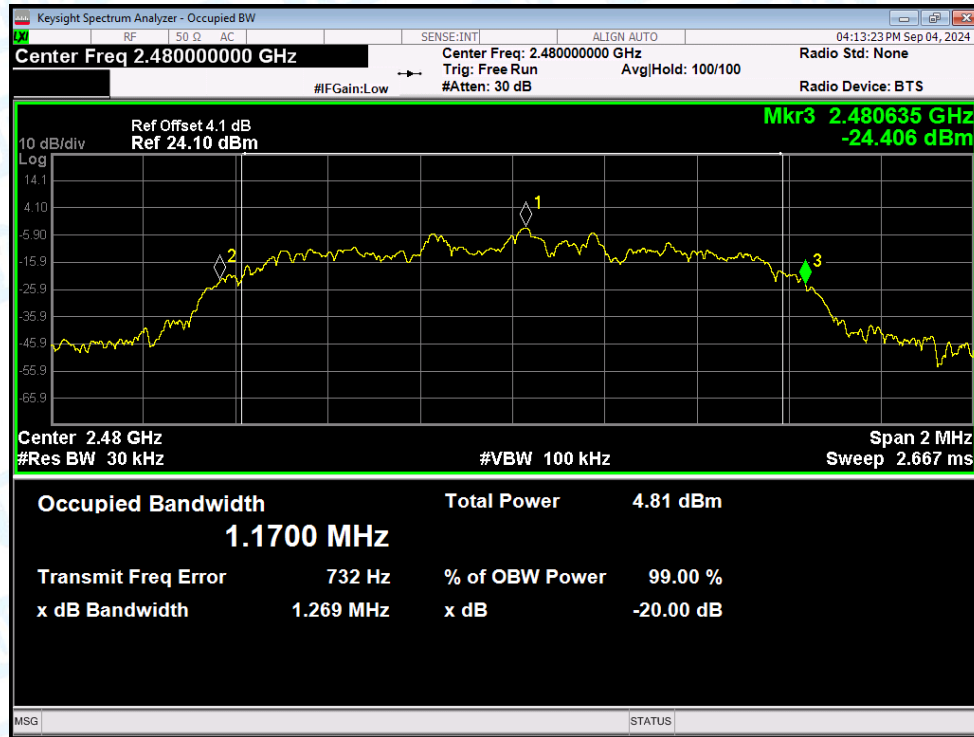
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



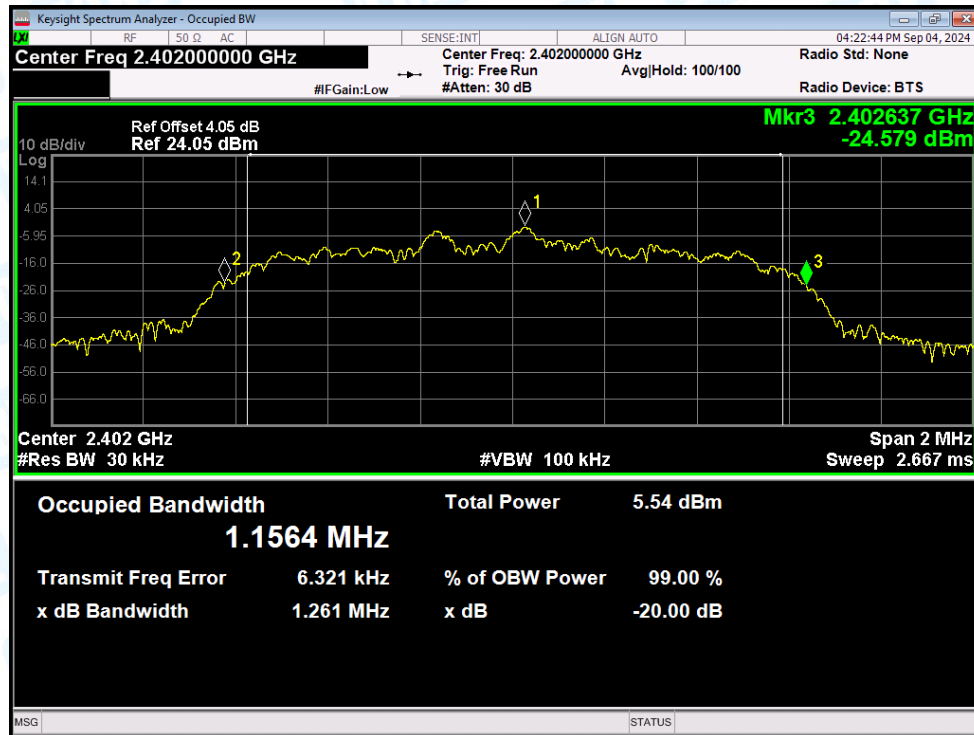
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

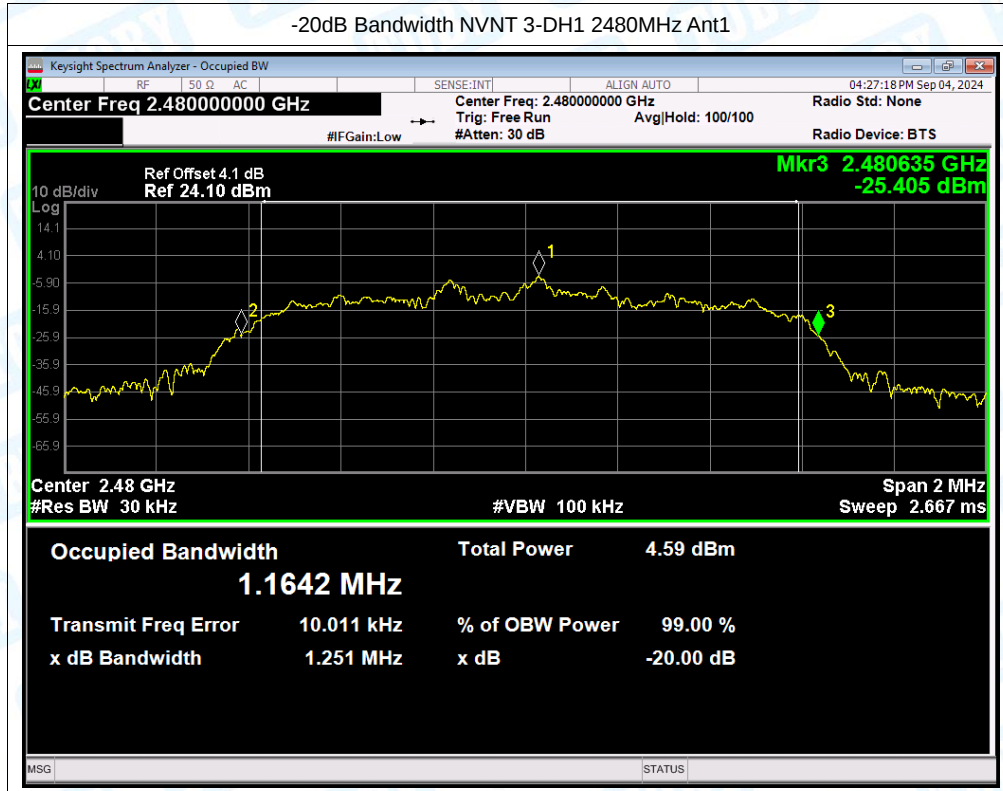


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



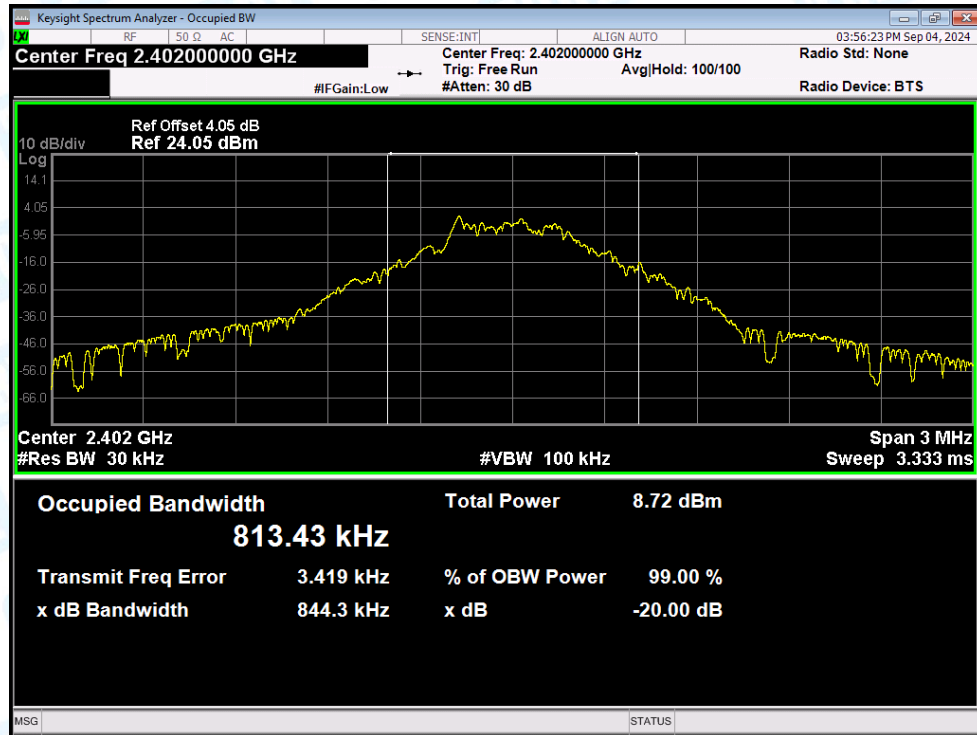


4. Occupied Channel Bandwidth

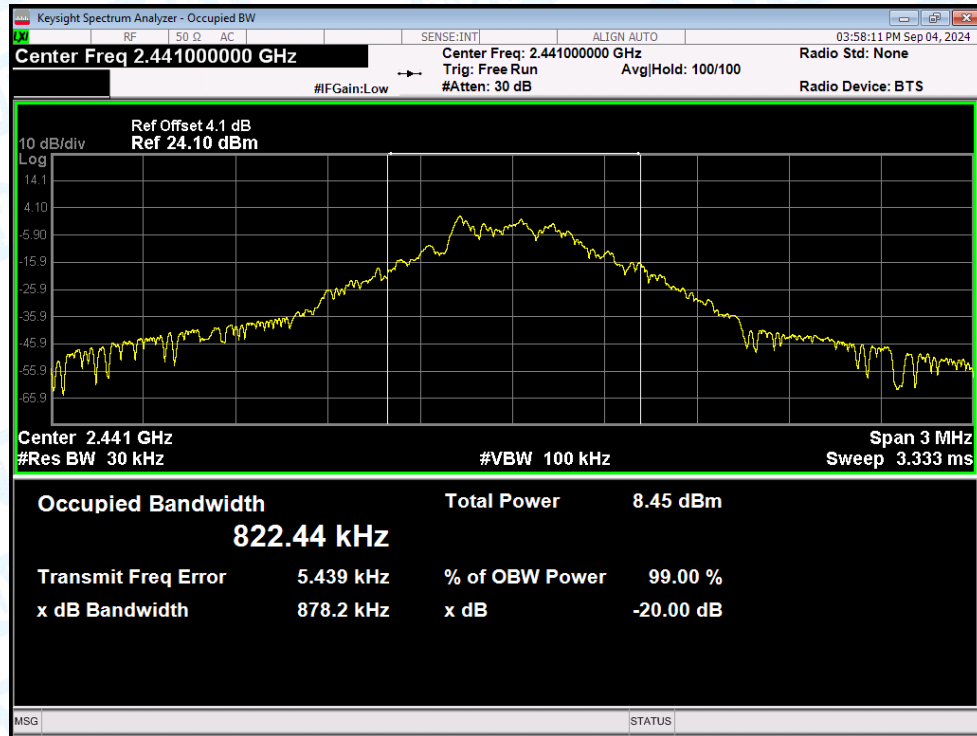
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.813
NVNT	1-DH1	2441	Ant1	0.822
NVNT	1-DH1	2480	Ant1	0.841
NVNT	2-DH1	2402	Ant1	1.173
NVNT	2-DH1	2441	Ant1	1.184
NVNT	2-DH1	2480	Ant1	1.173
NVNT	3-DH1	2402	Ant1	1.168
NVNT	3-DH1	2441	Ant1	1.161
NVNT	3-DH1	2480	Ant1	1.163

Test Graphs

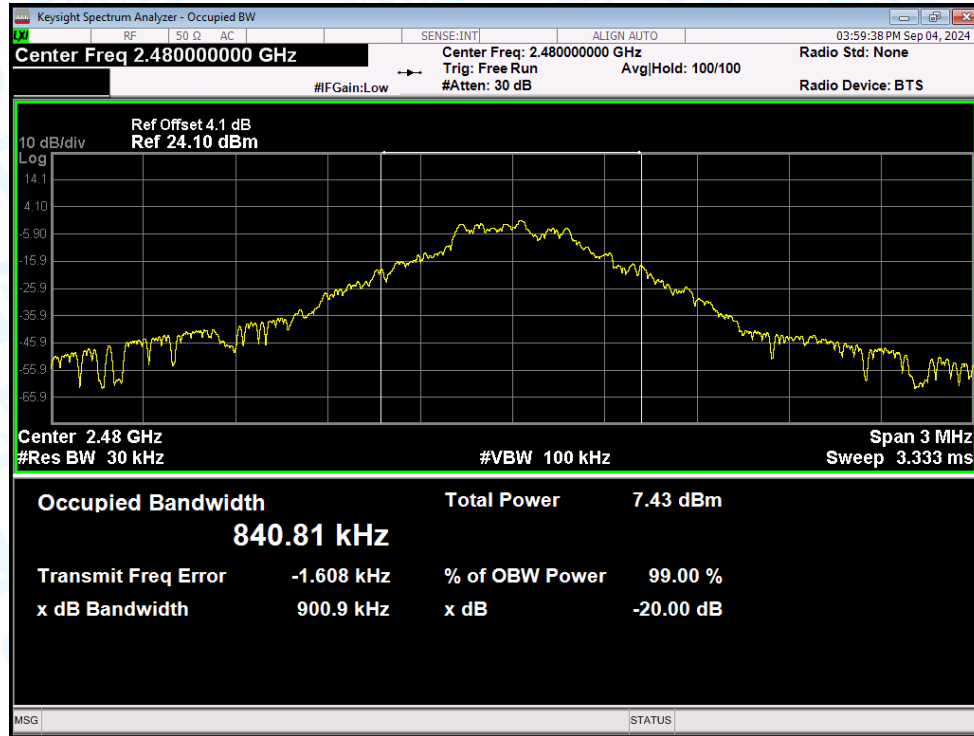
OBW NVNT 1-DH1 2402MHz Ant1



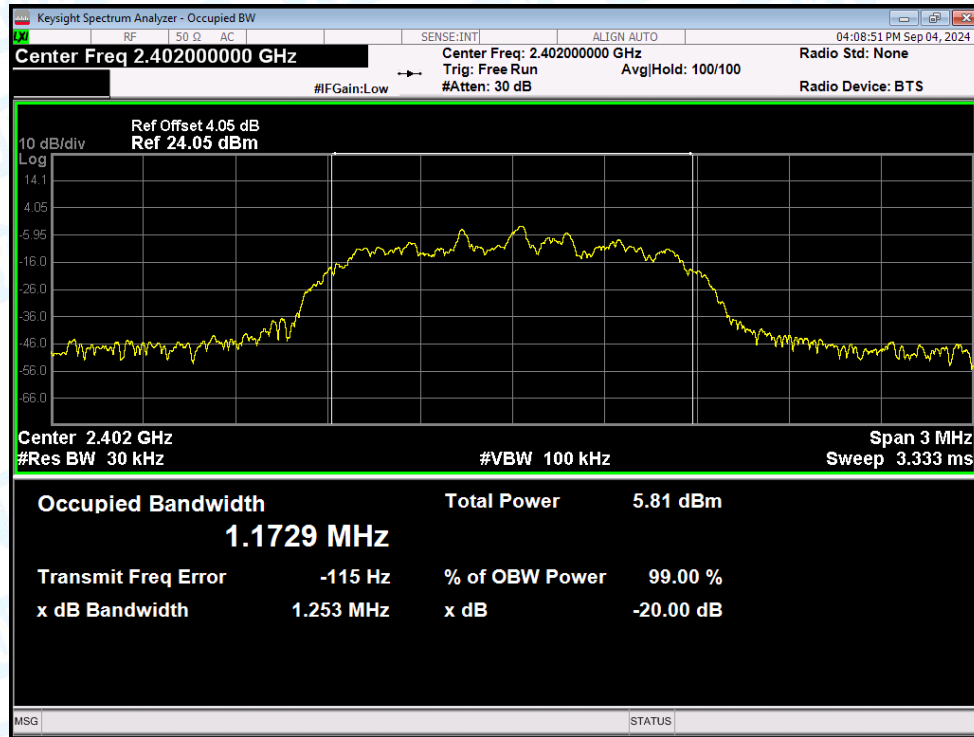
OBW NVNT 1-DH1 2441MHz Ant1



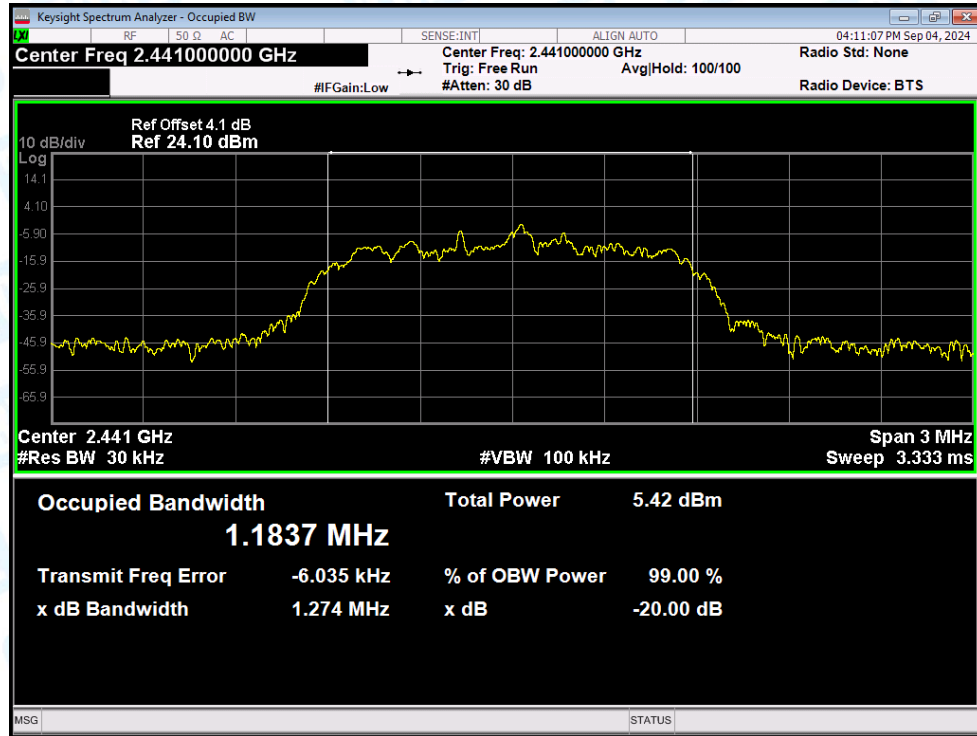
OBW NVNT 1-DH1 2480MHz Ant1



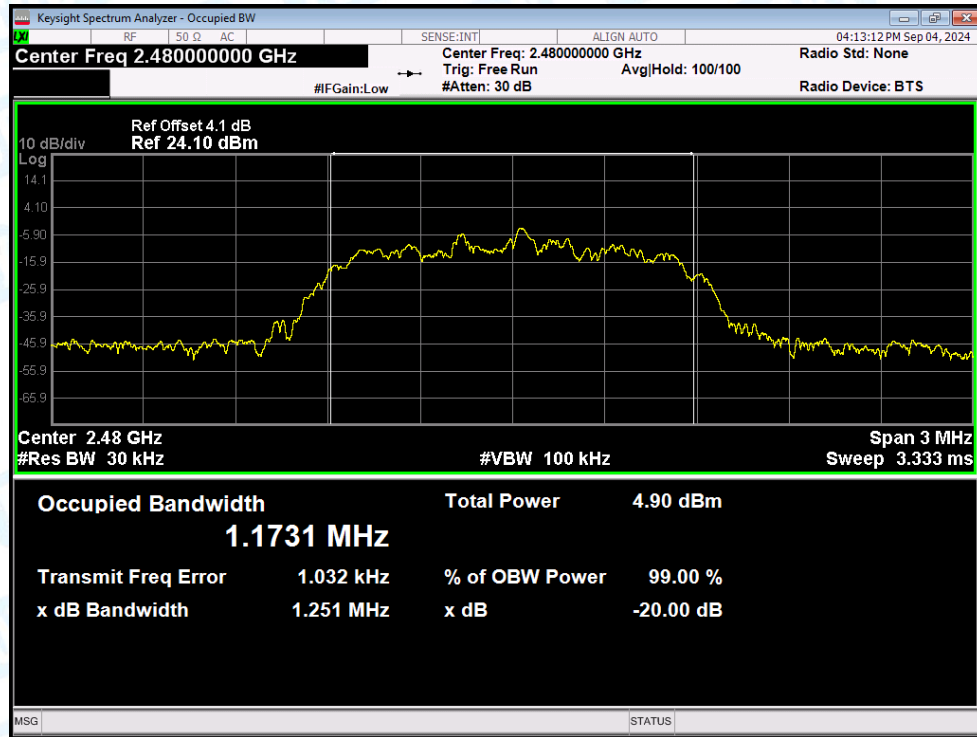
OBW NVNT 2-DH1 2402MHz Ant1



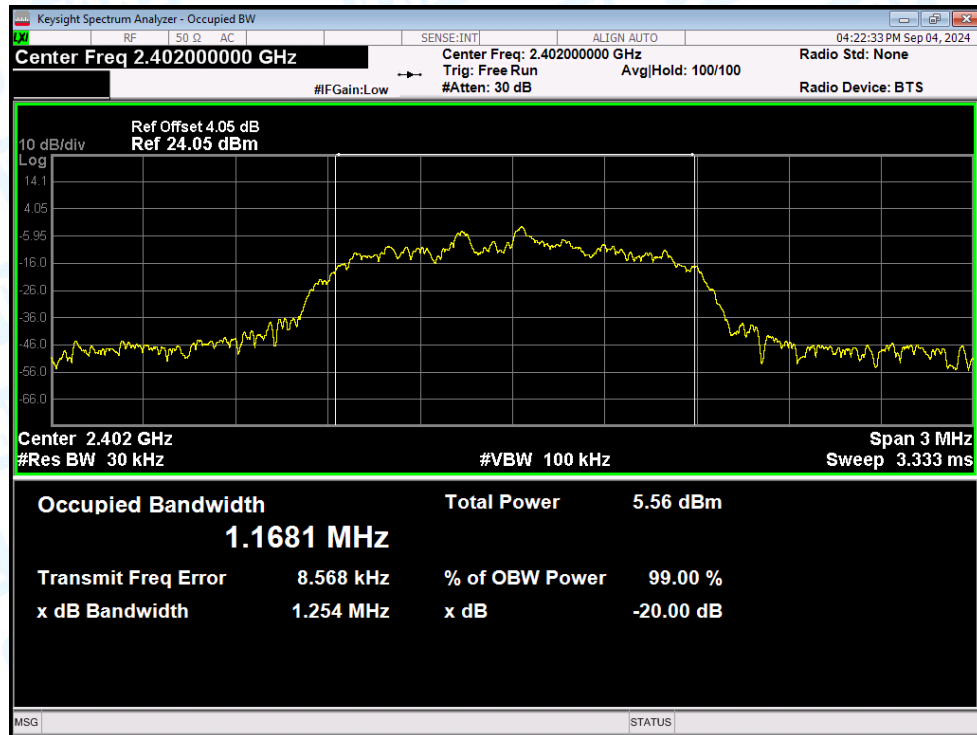
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

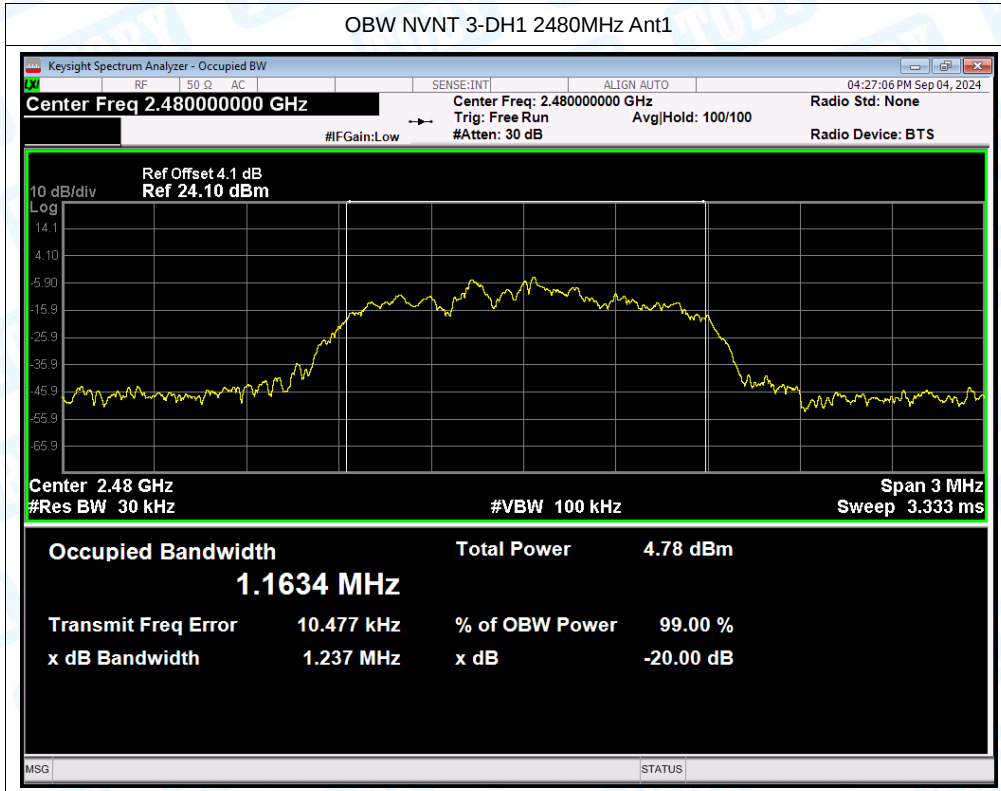


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



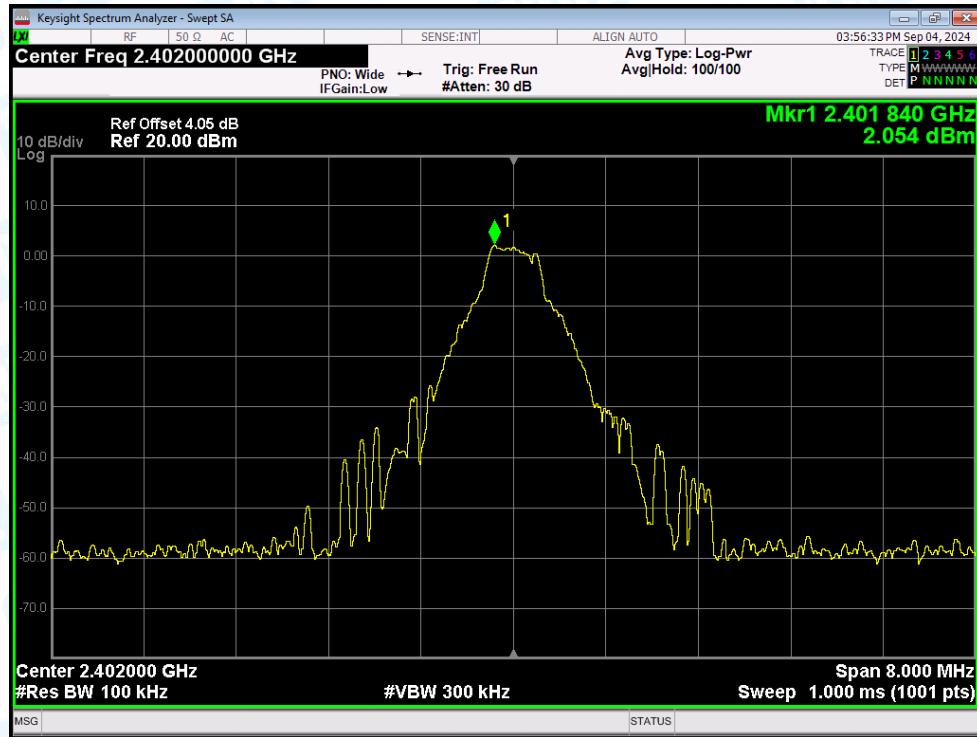


5. Band Edge

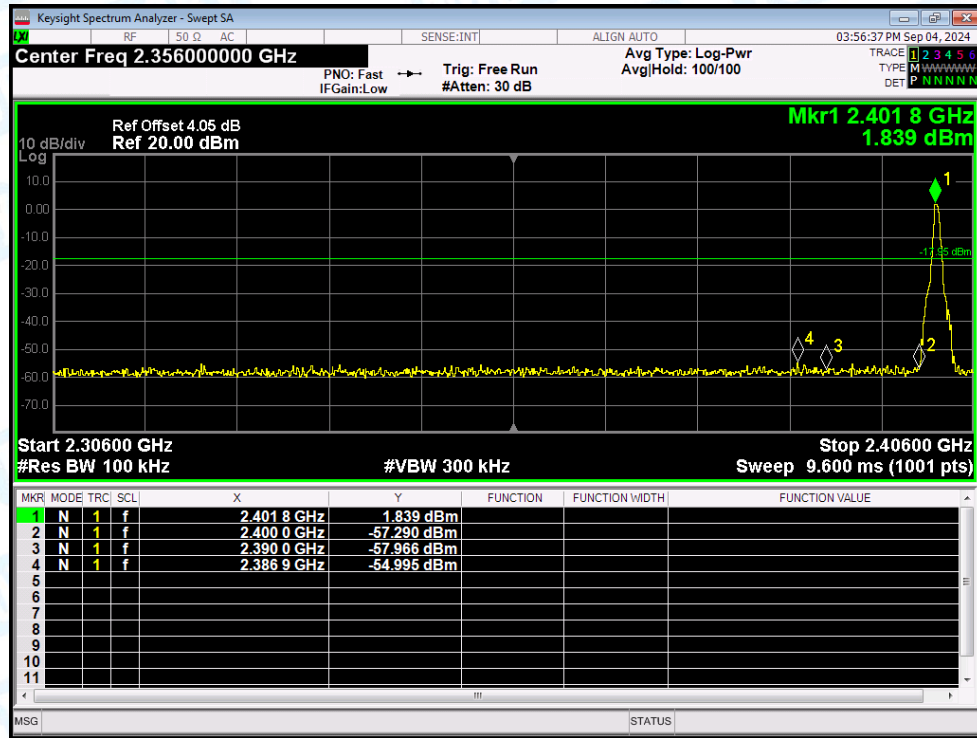
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.04	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-56.59	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-54.35	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.52	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-53.82	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.24	-20	Pass

Test Graphs

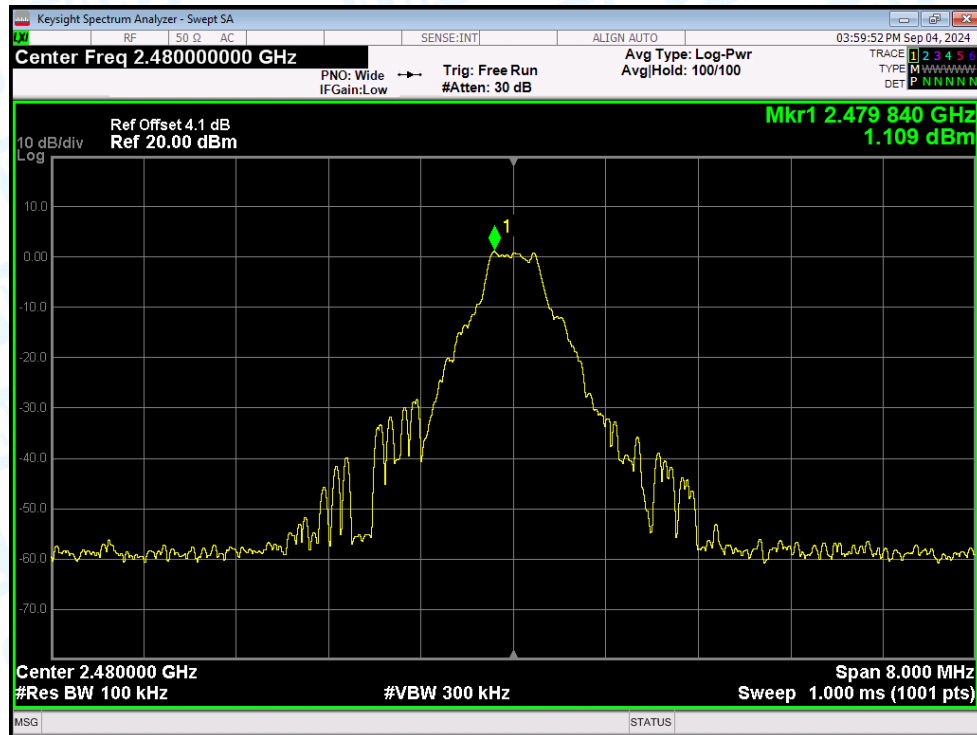
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



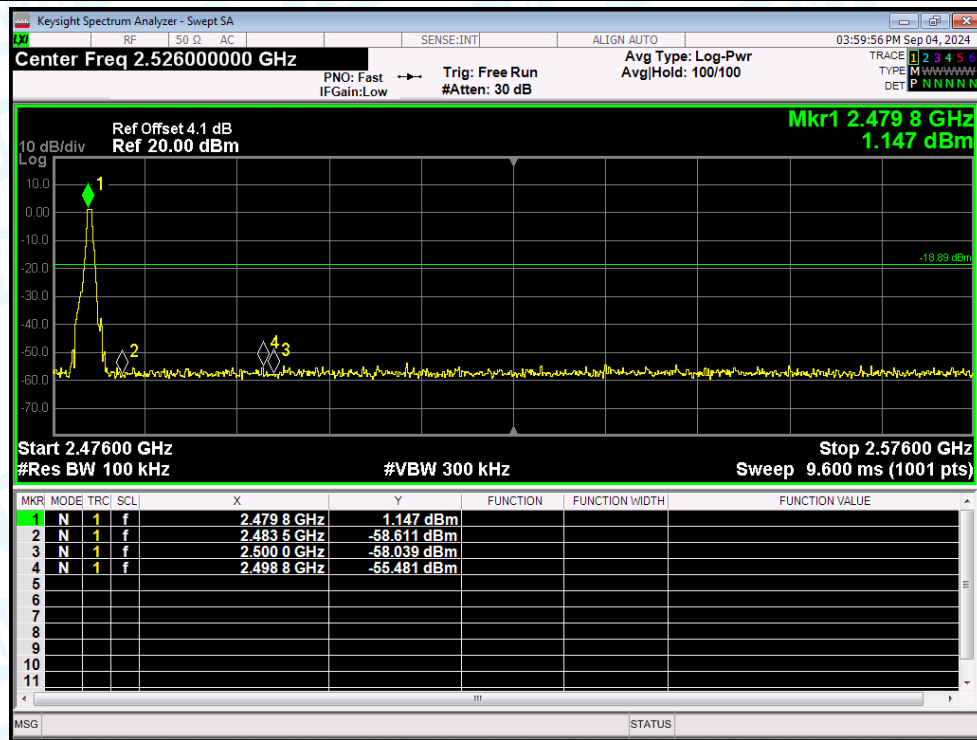
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



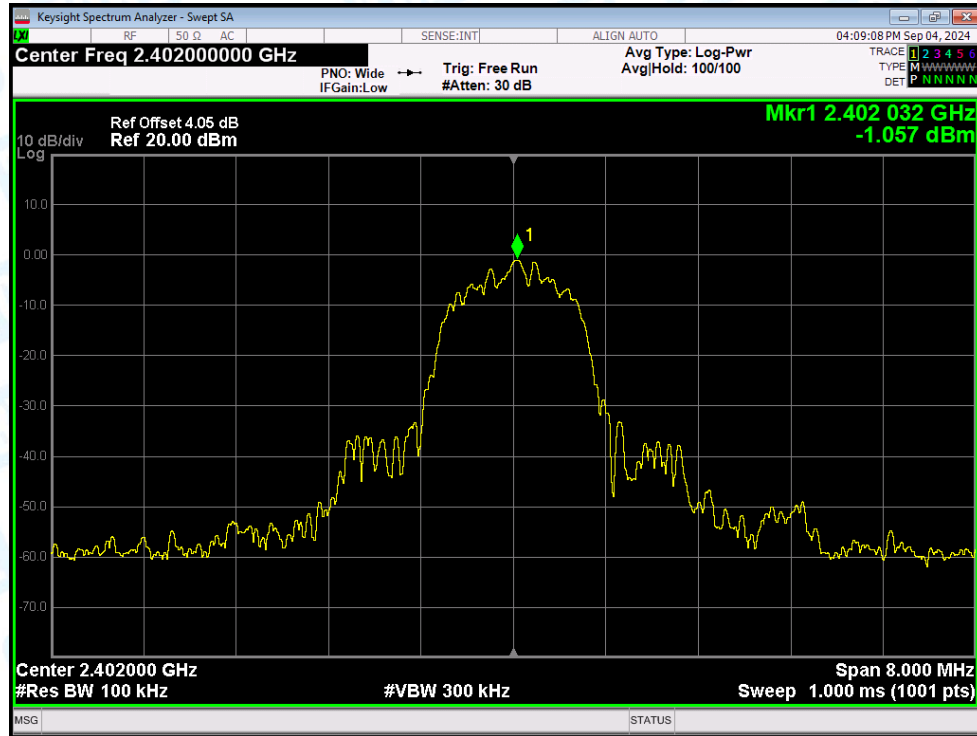
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



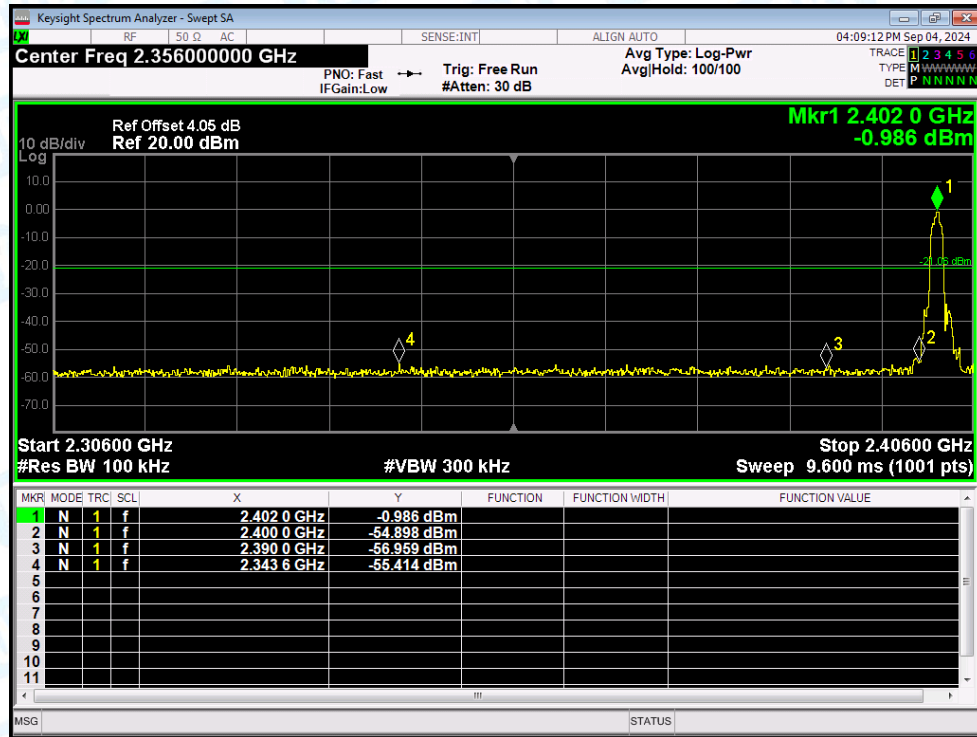
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



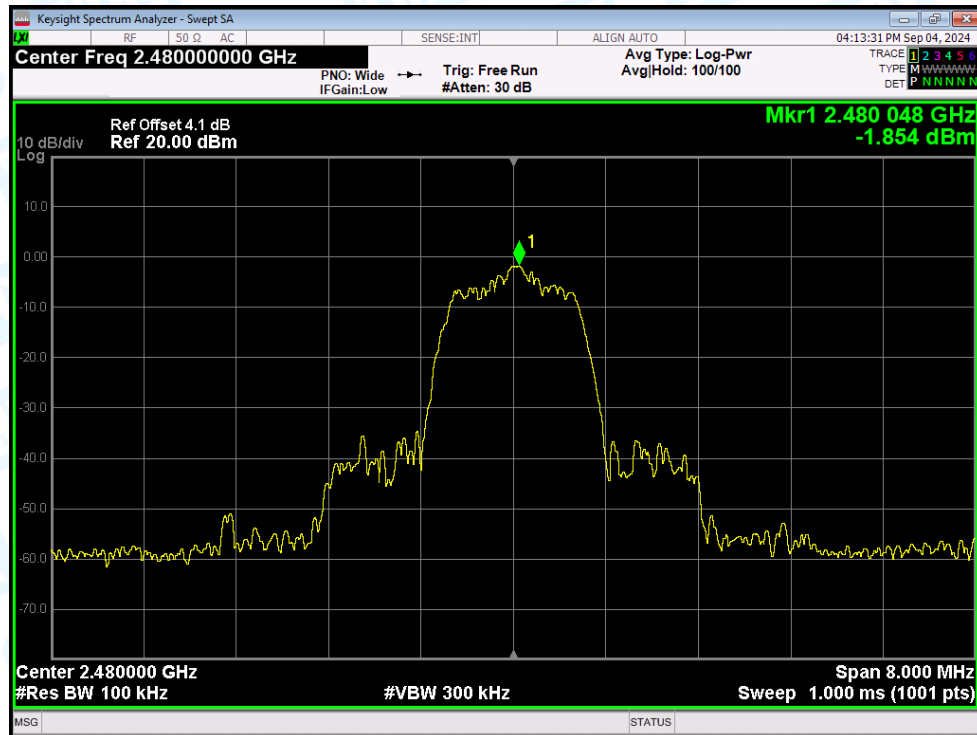
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



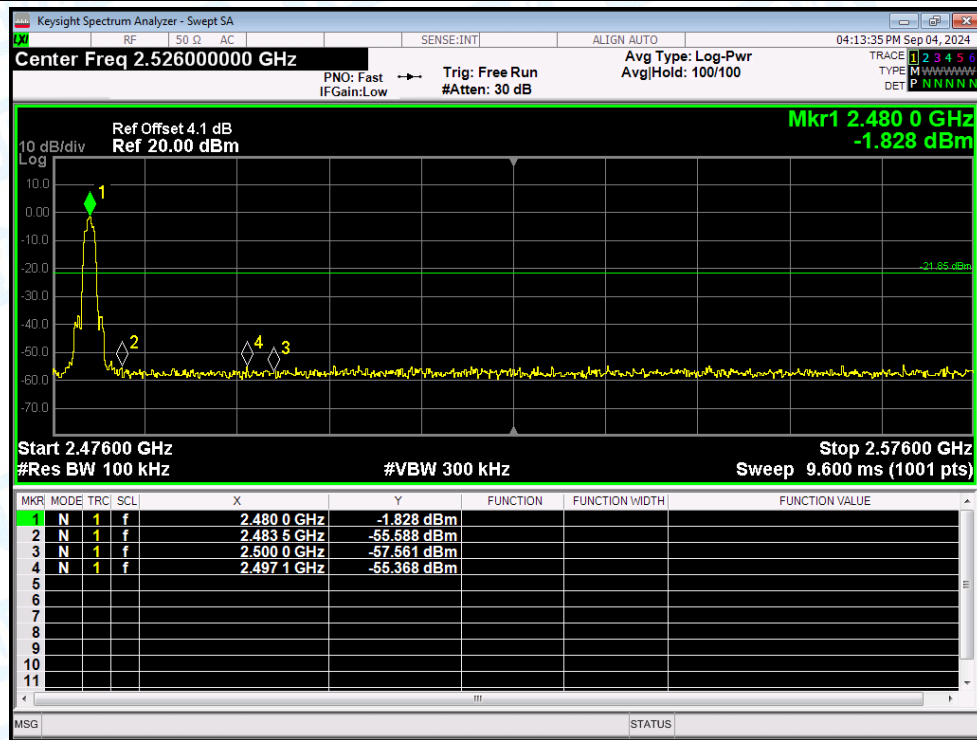
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



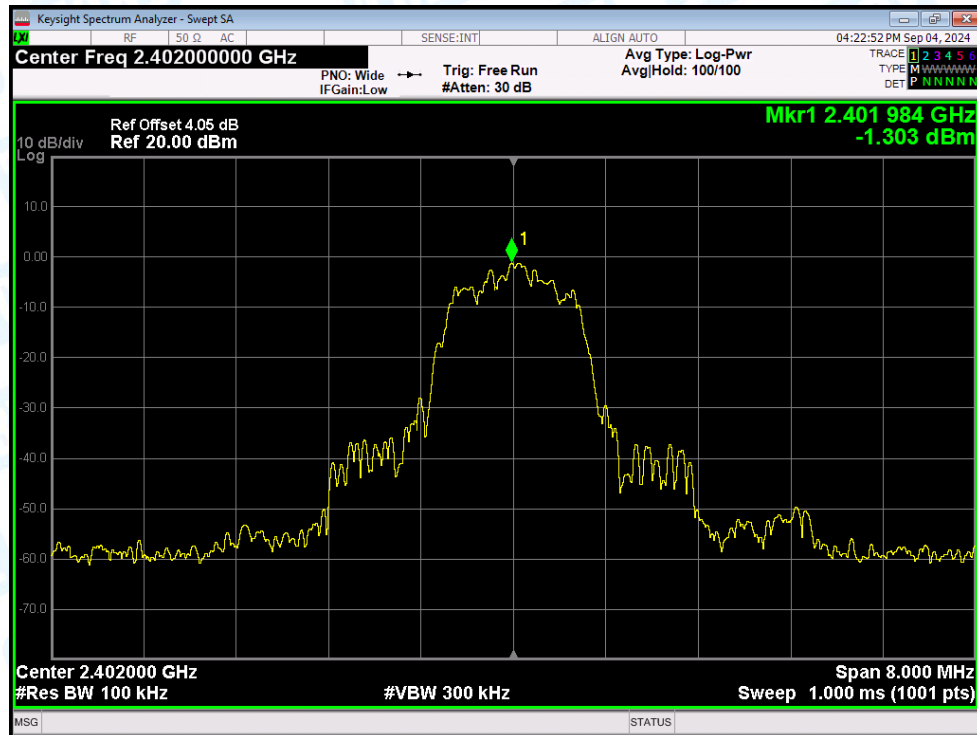
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



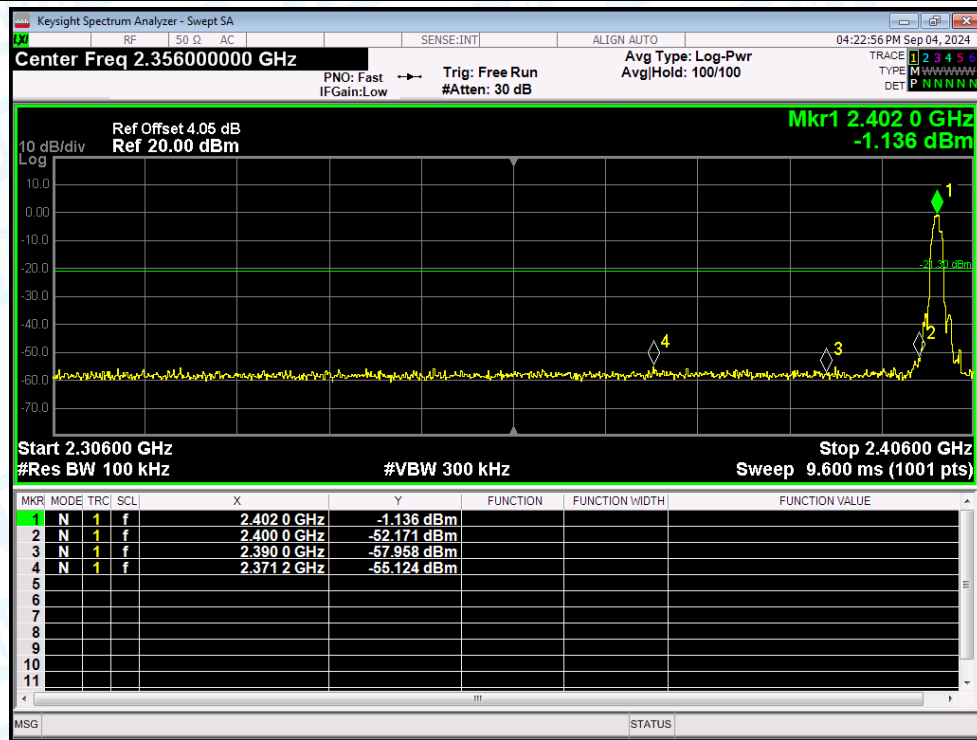
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

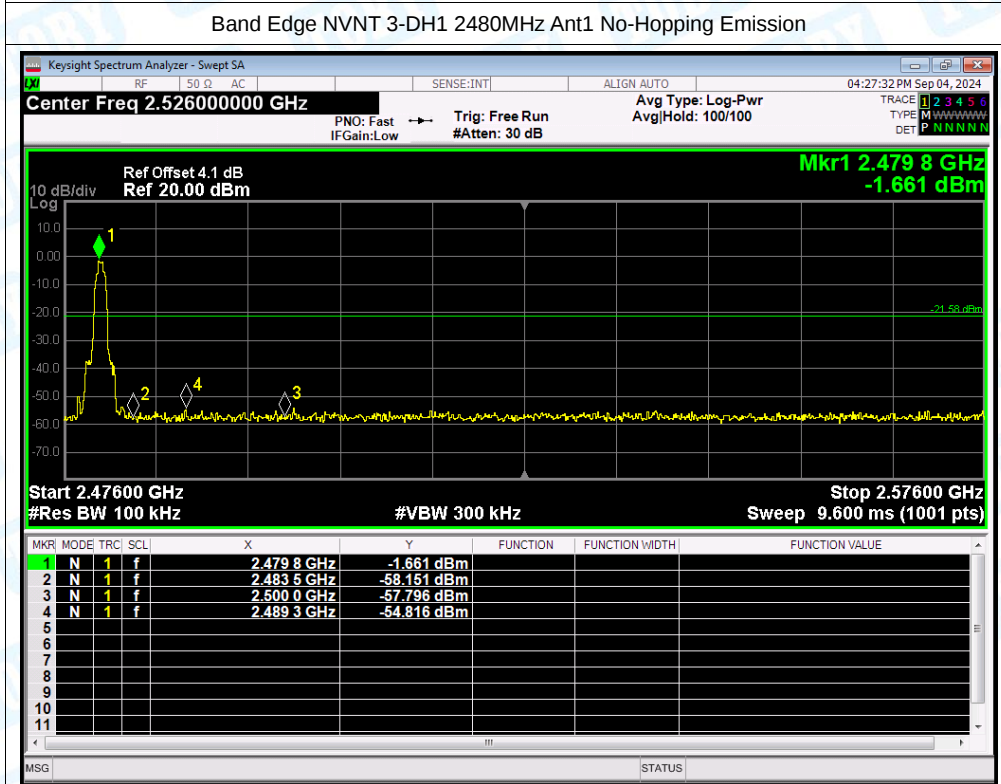
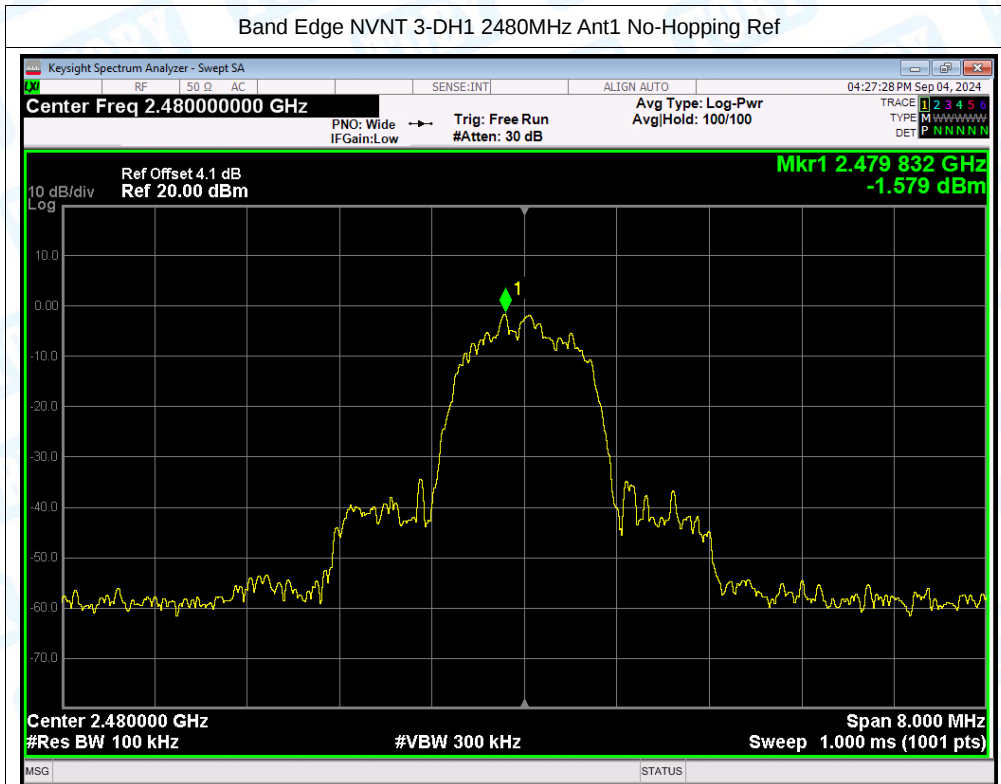


Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



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



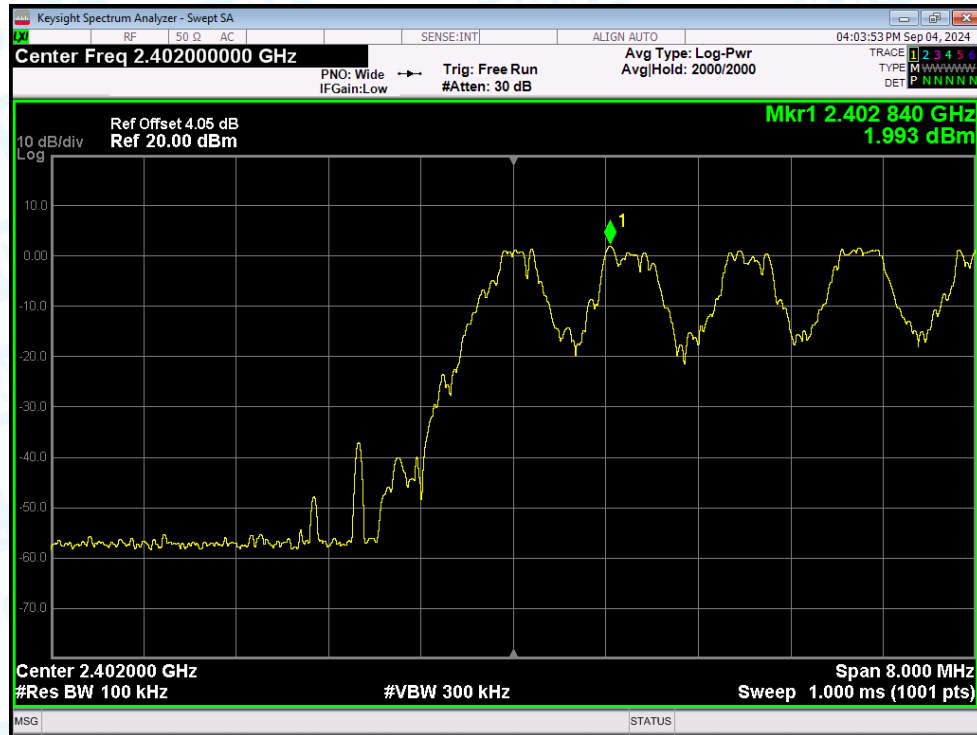


6. Band Edge(Hopping)

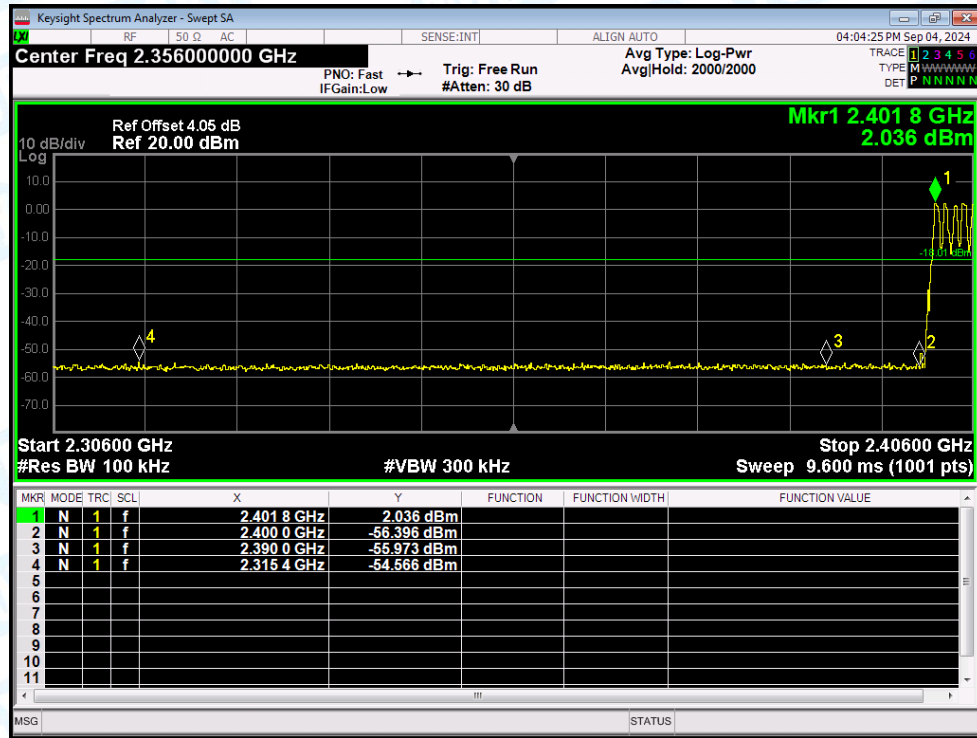
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.56	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-55.41	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-53.7	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.72	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-52.91	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-52.55	-20	Pass

Test Graphs

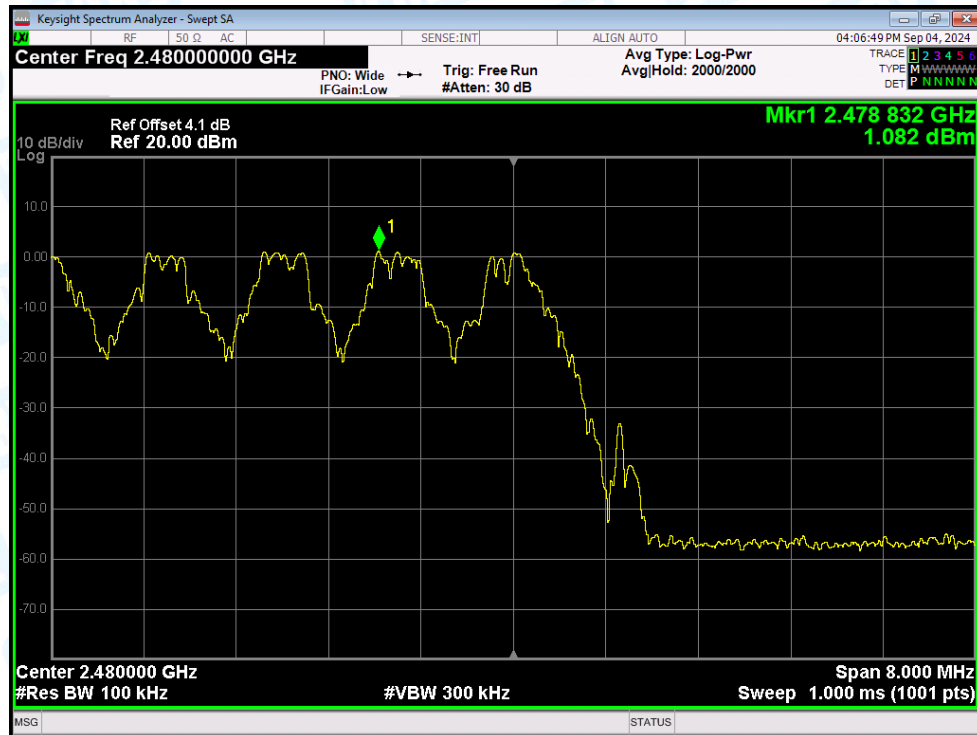
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref



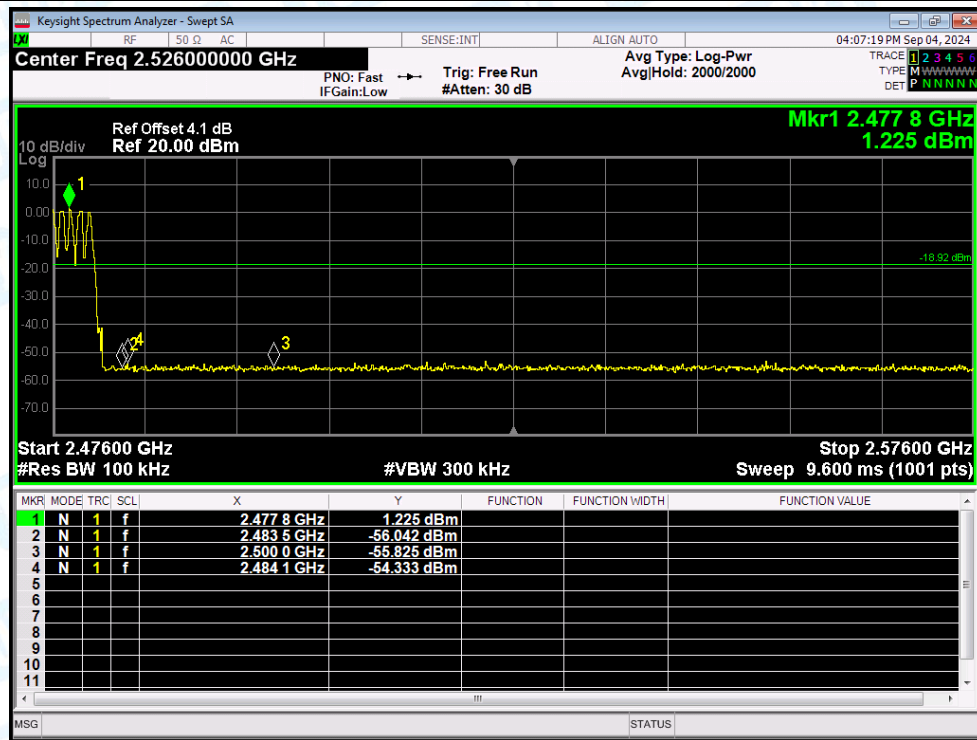
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



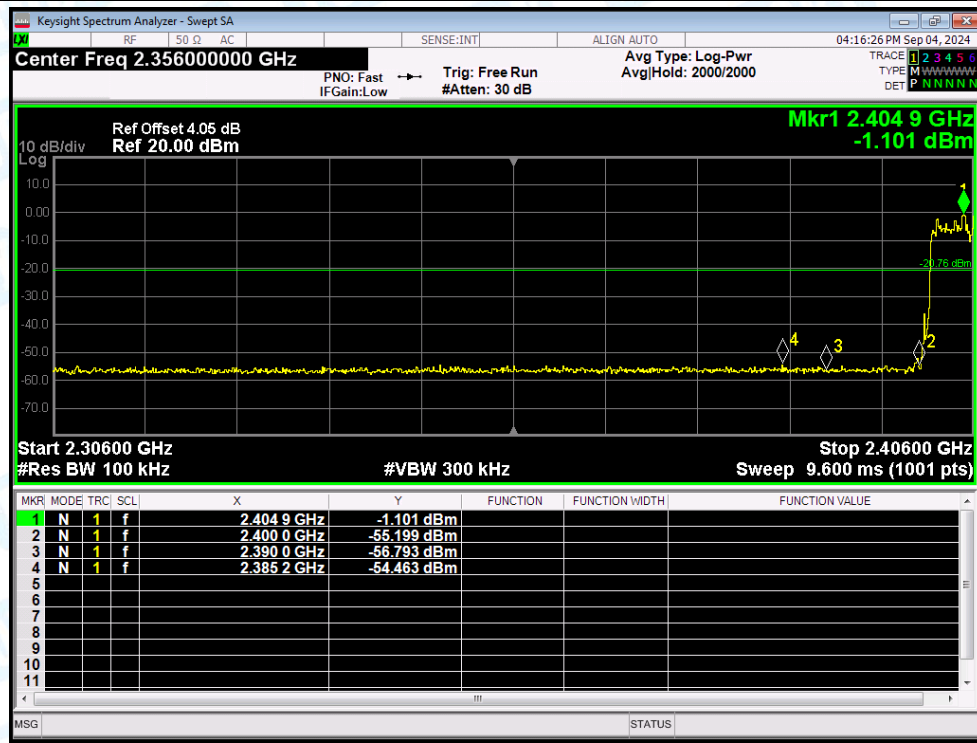
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



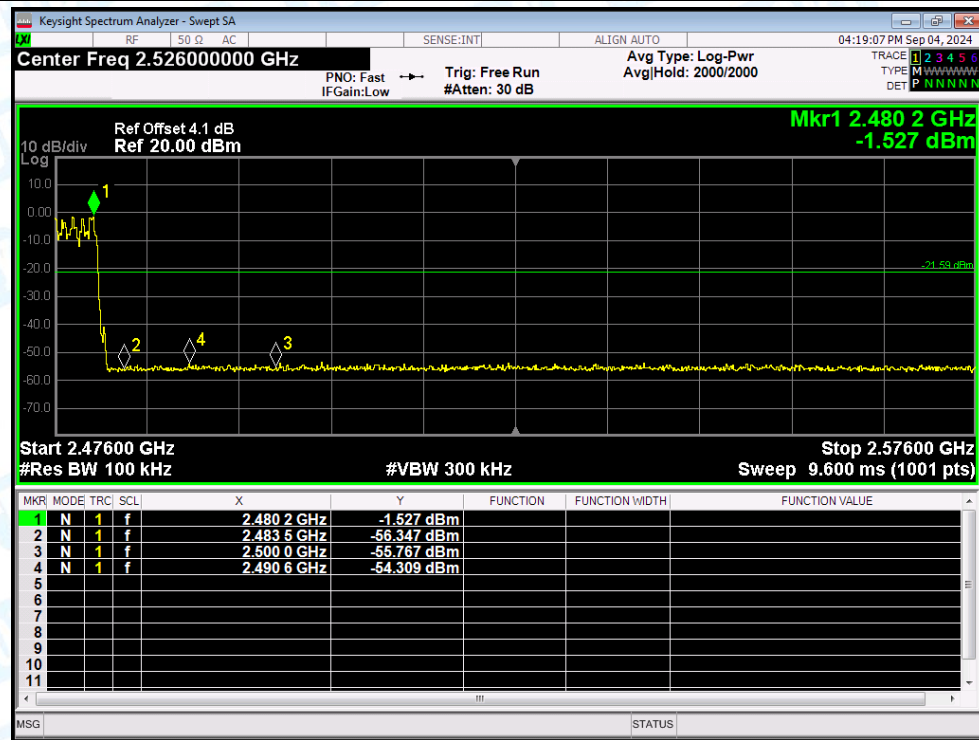
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



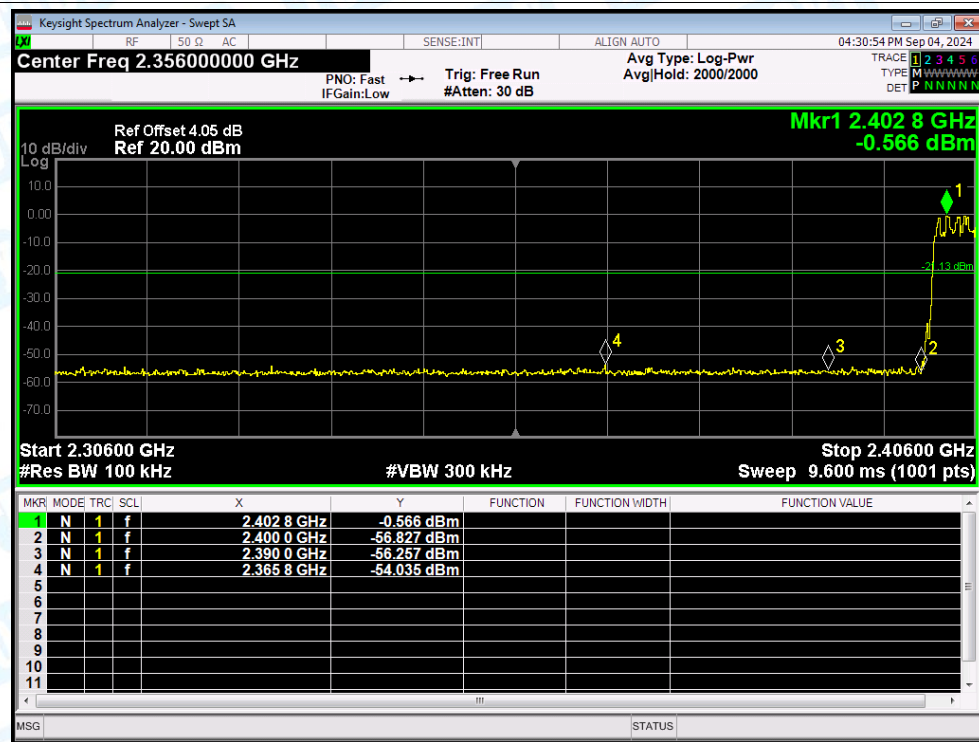
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



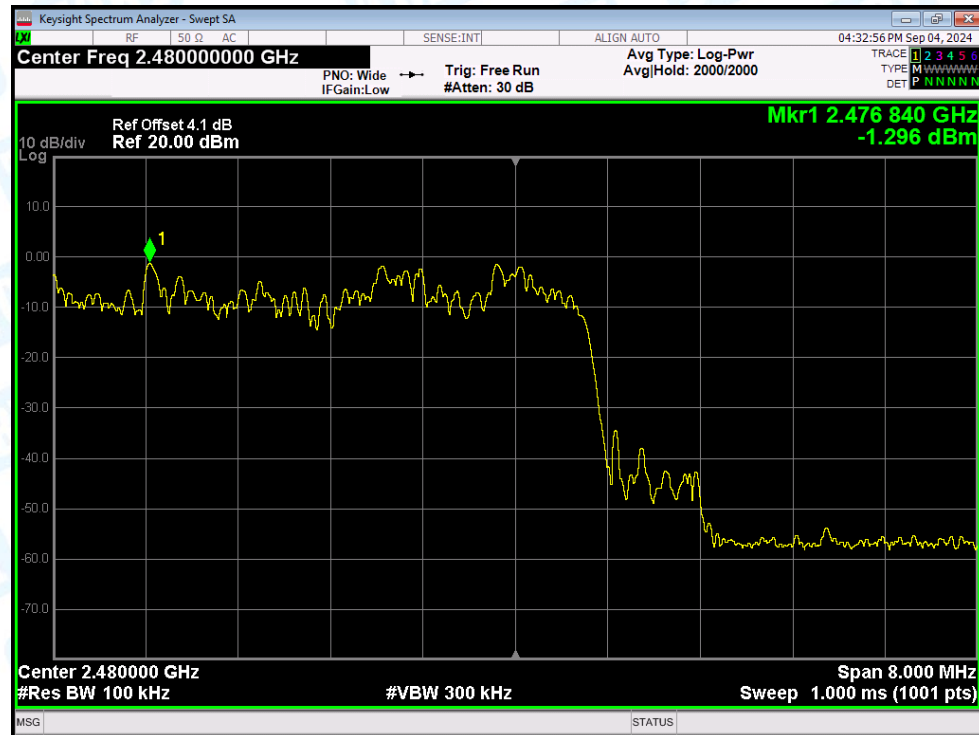
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



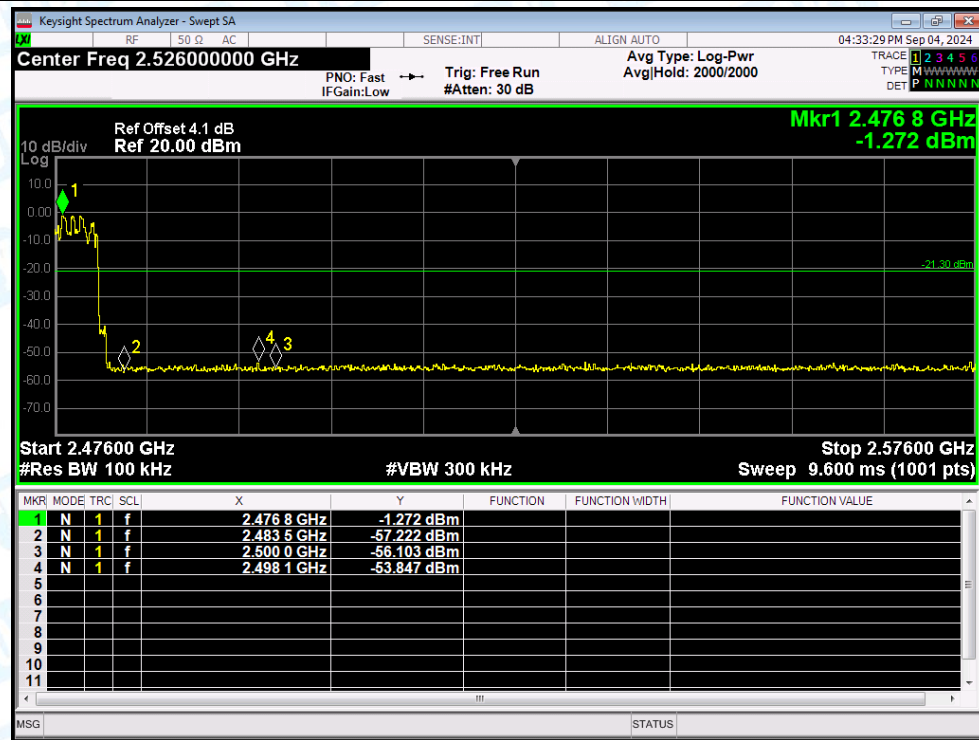
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

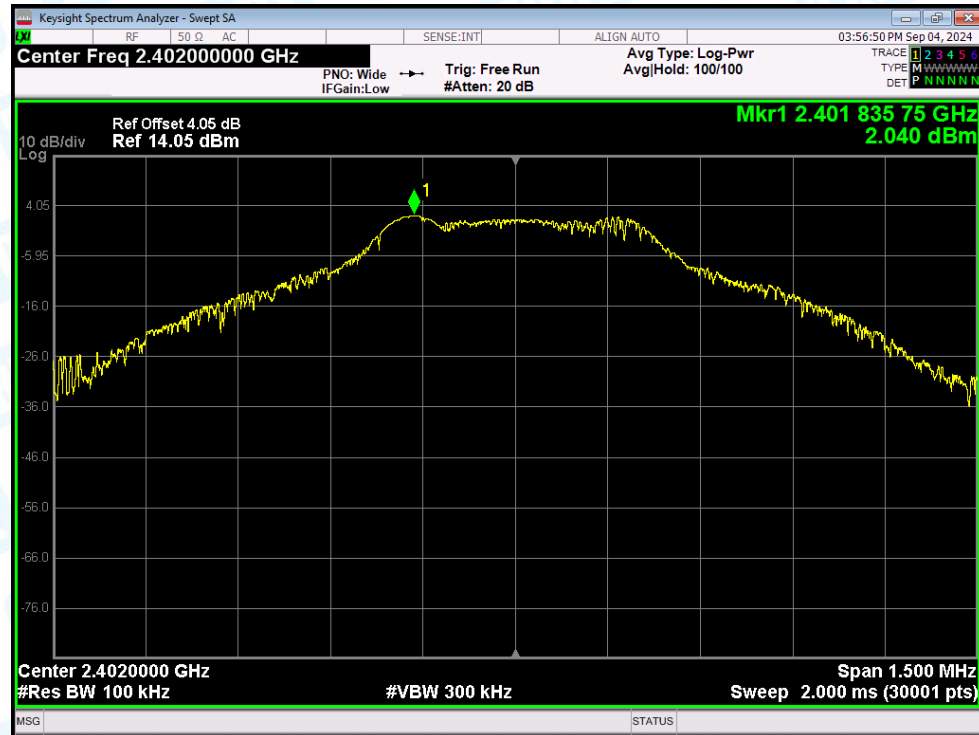


7. Conducted RF Spurious Emission

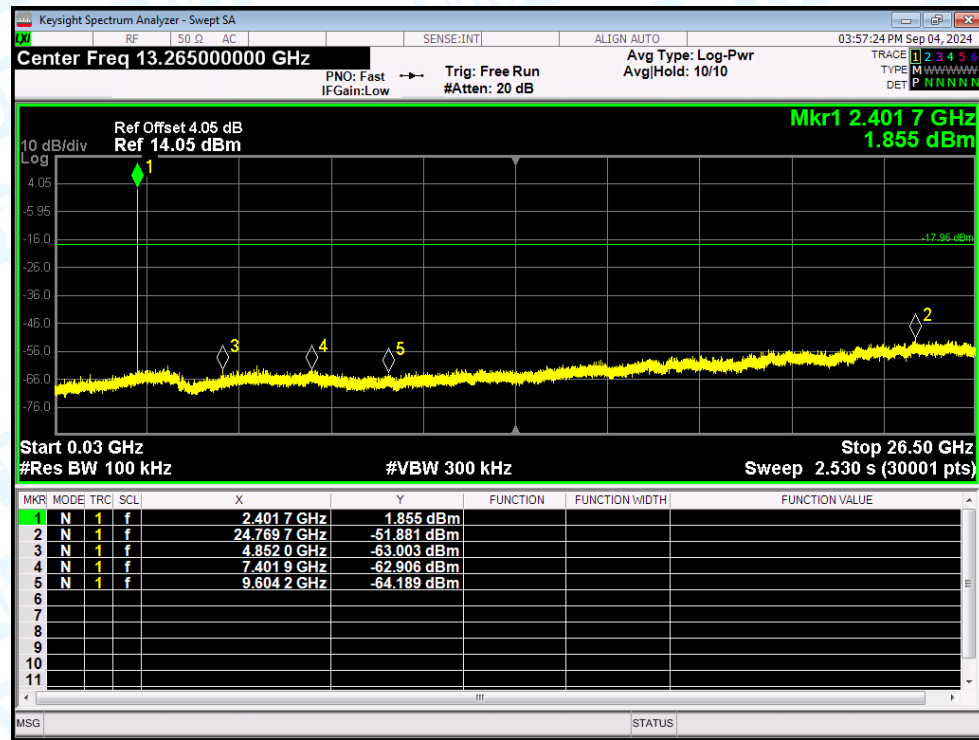
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-53.92	-20	Pass
NVNT	1-DH1	2441	Ant1	-53.73	-20	Pass
NVNT	1-DH1	2480	Ant1	-51.97	-20	Pass
NVNT	2-DH1	2402	Ant1	-49.91	-20	Pass
NVNT	2-DH1	2441	Ant1	-51.17	-20	Pass
NVNT	2-DH1	2480	Ant1	-50.48	-20	Pass
NVNT	3-DH1	2402	Ant1	-50.45	-20	Pass
NVNT	3-DH1	2441	Ant1	-51.15	-20	Pass
NVNT	3-DH1	2480	Ant1	-50.27	-20	Pass

Test Graphs

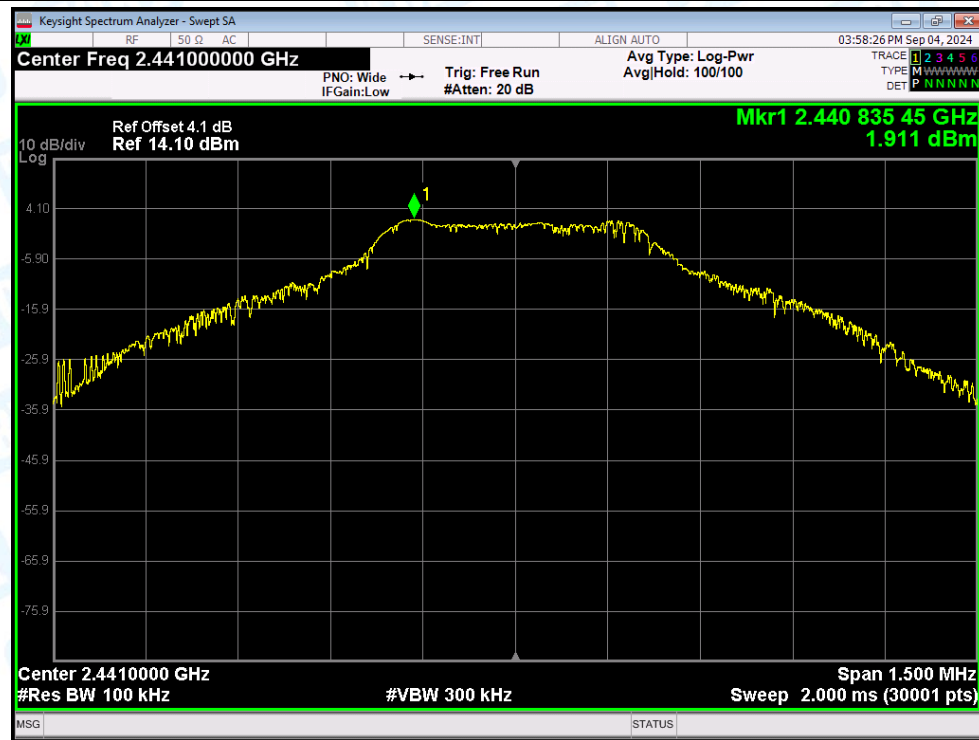
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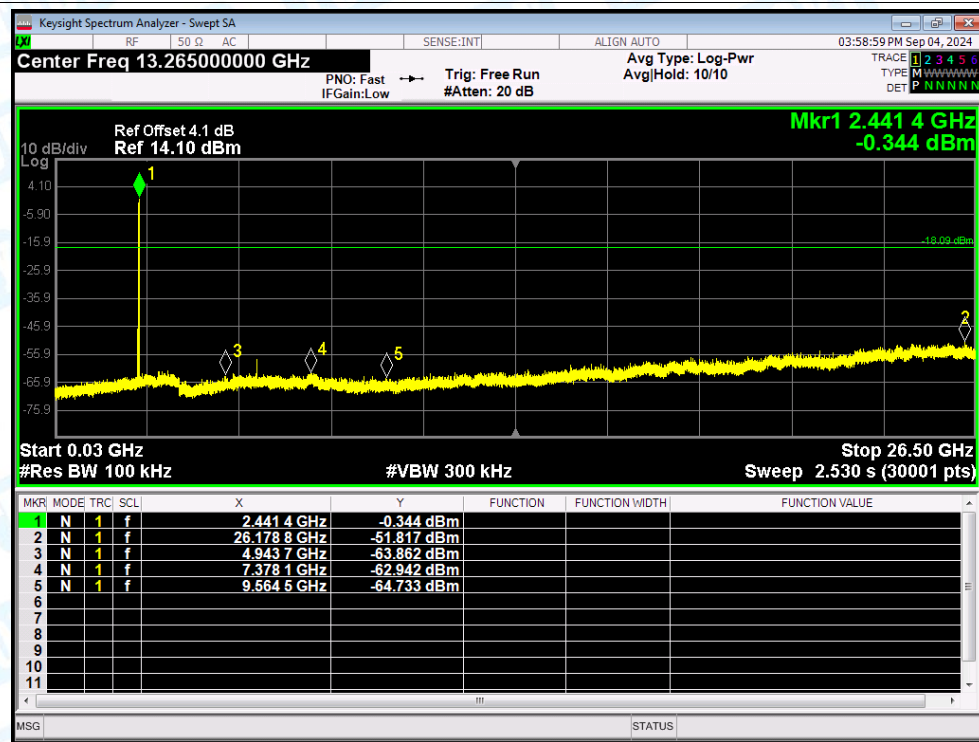
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



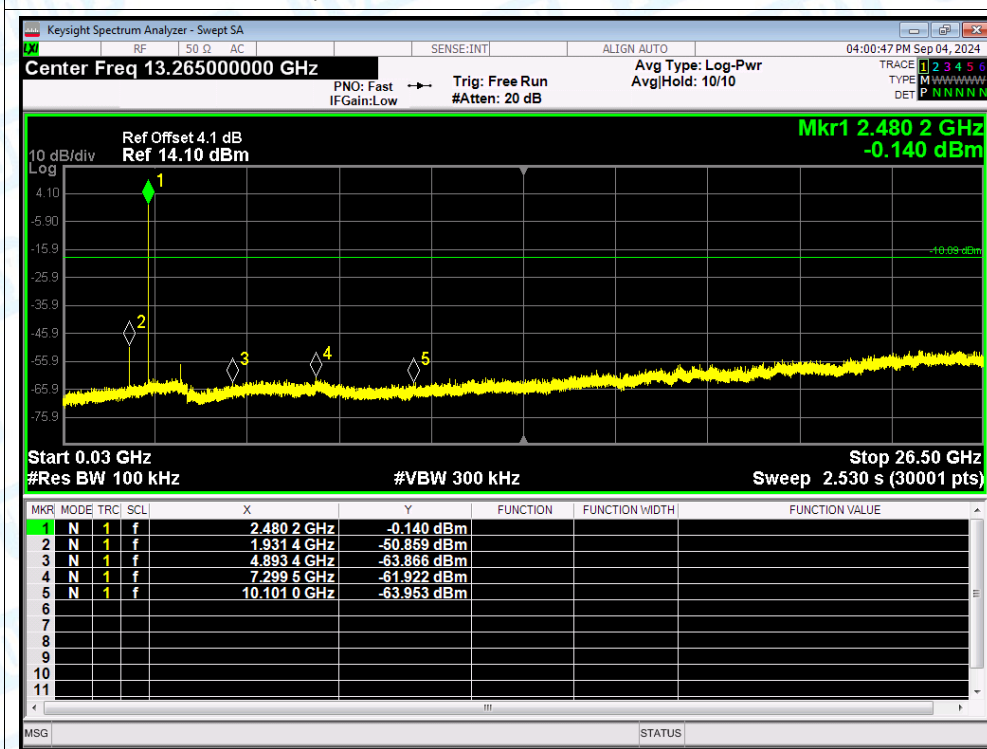
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



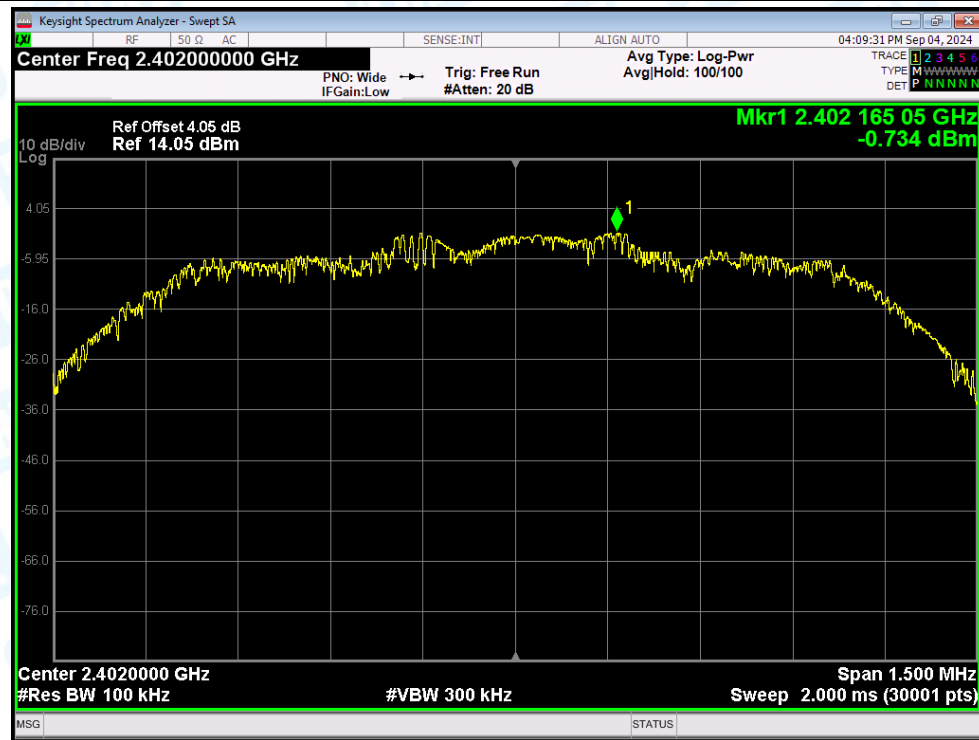
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



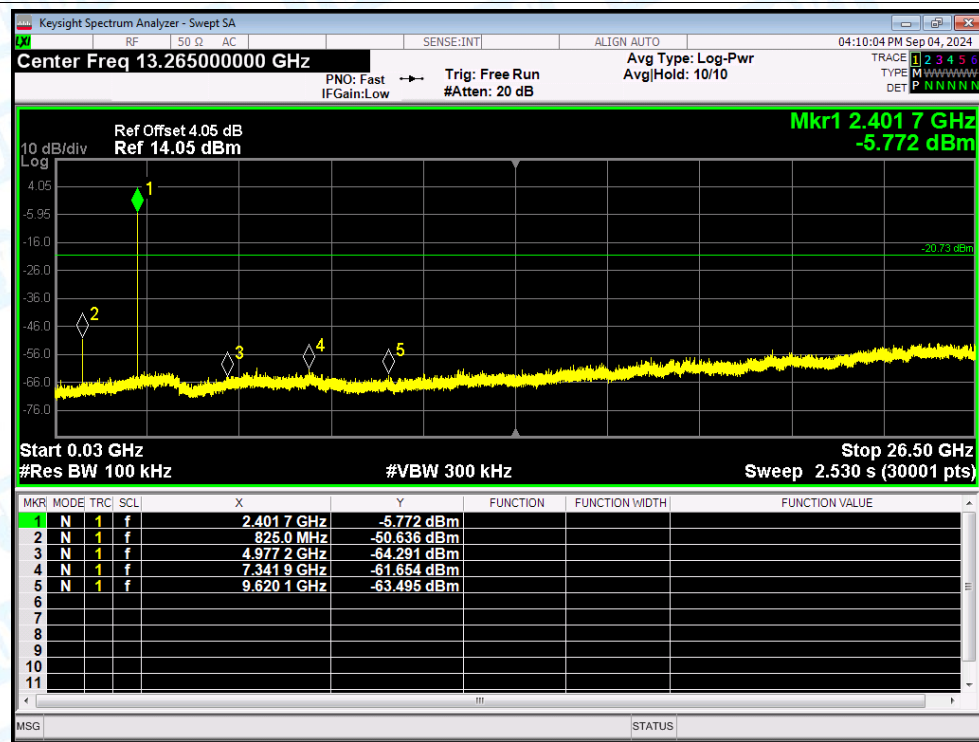
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



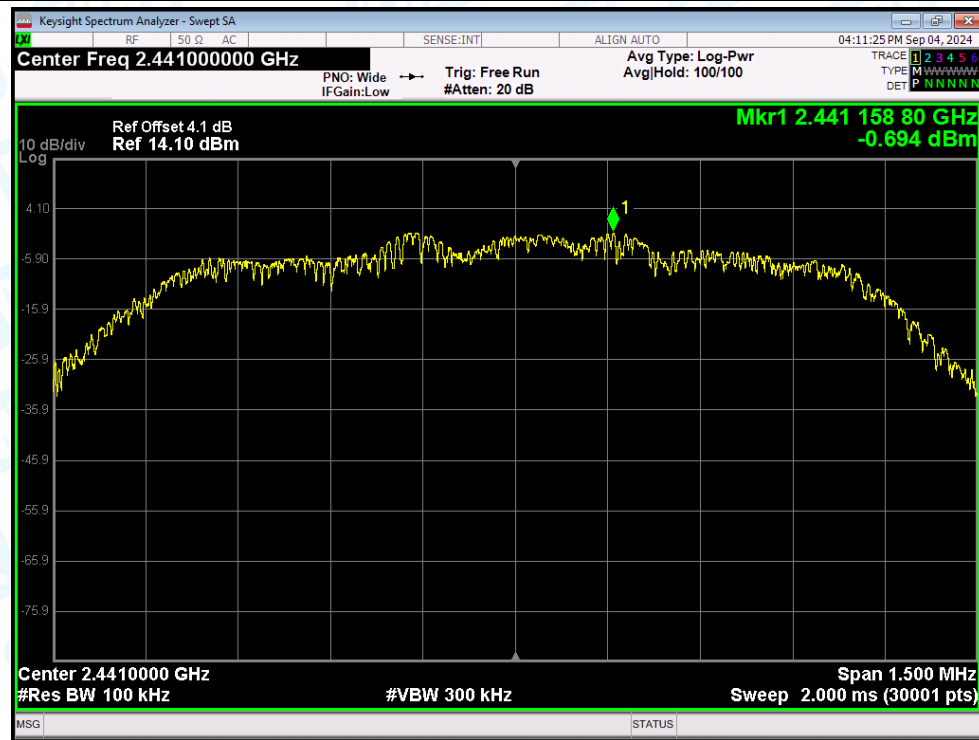
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



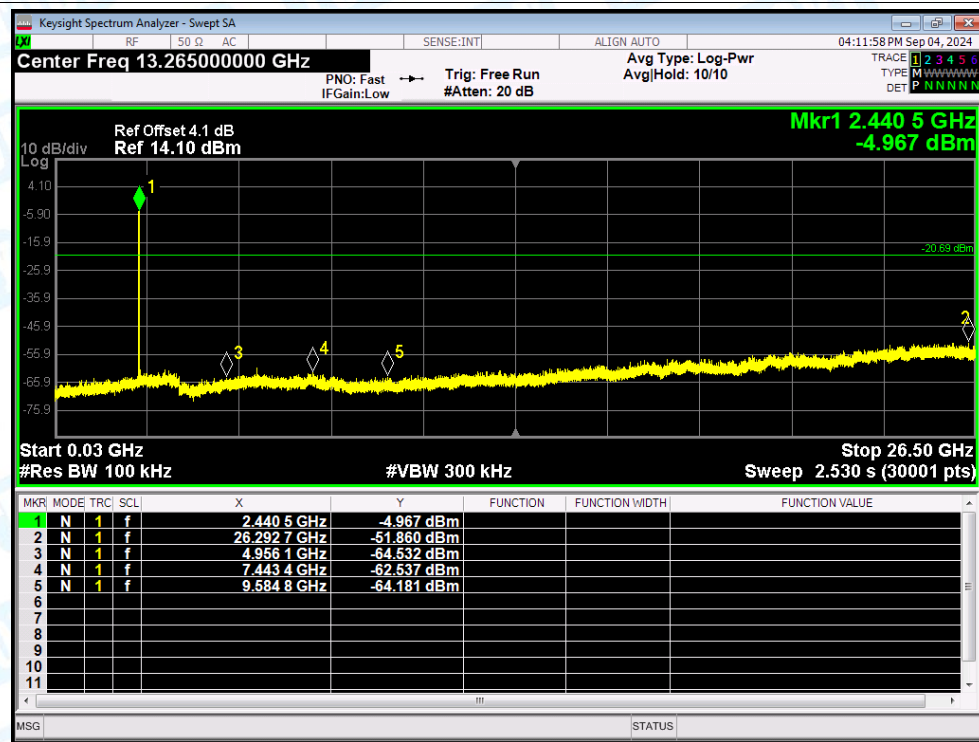
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



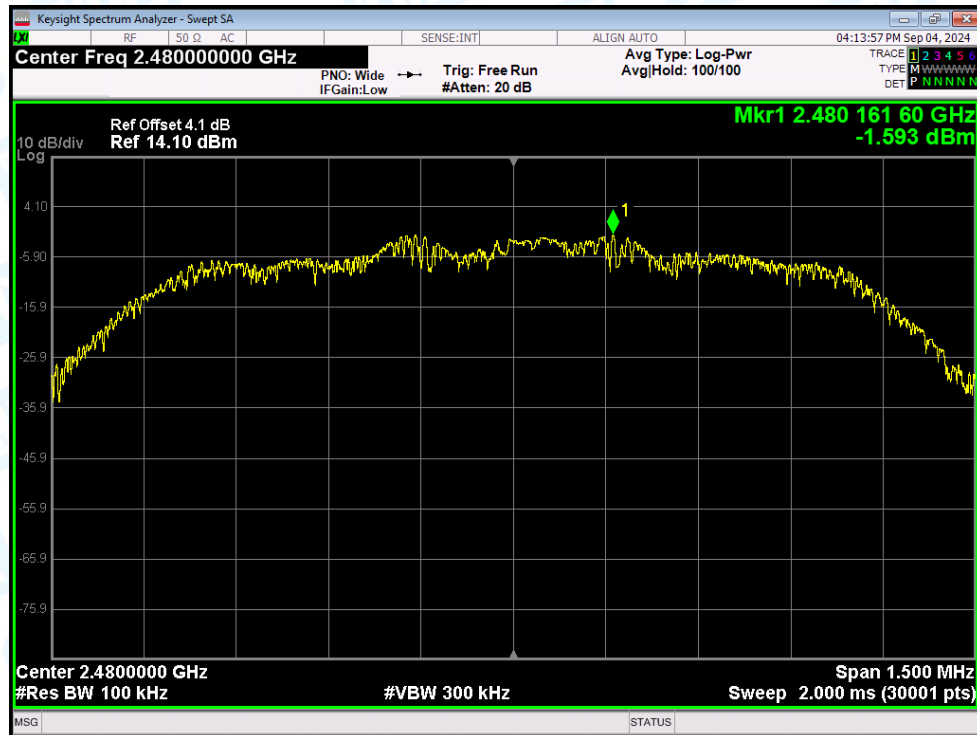
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



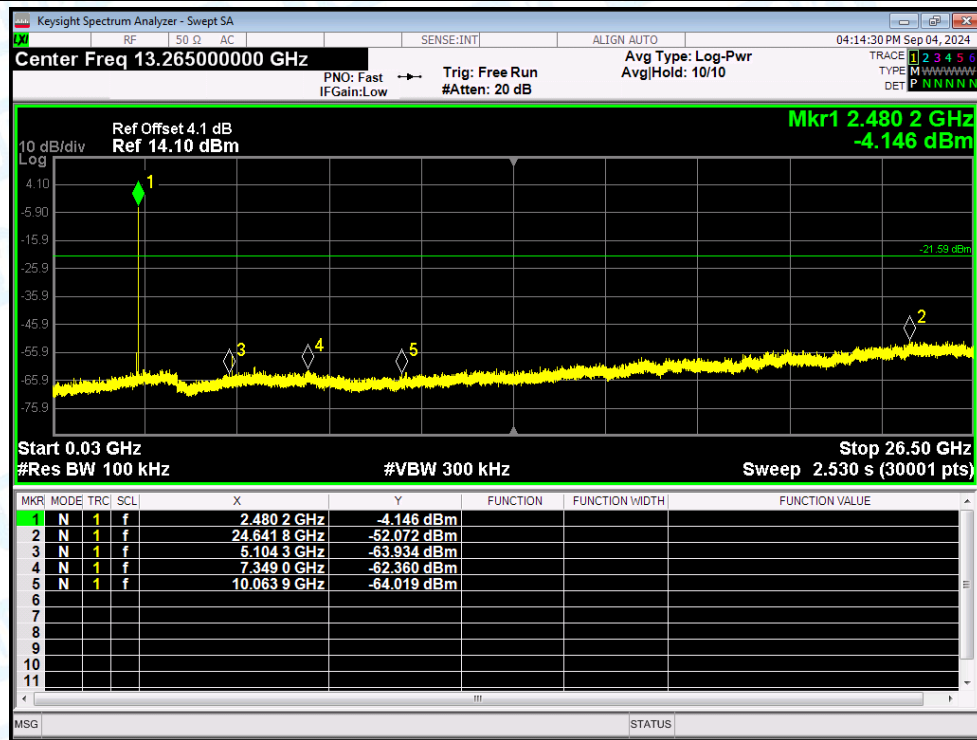
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



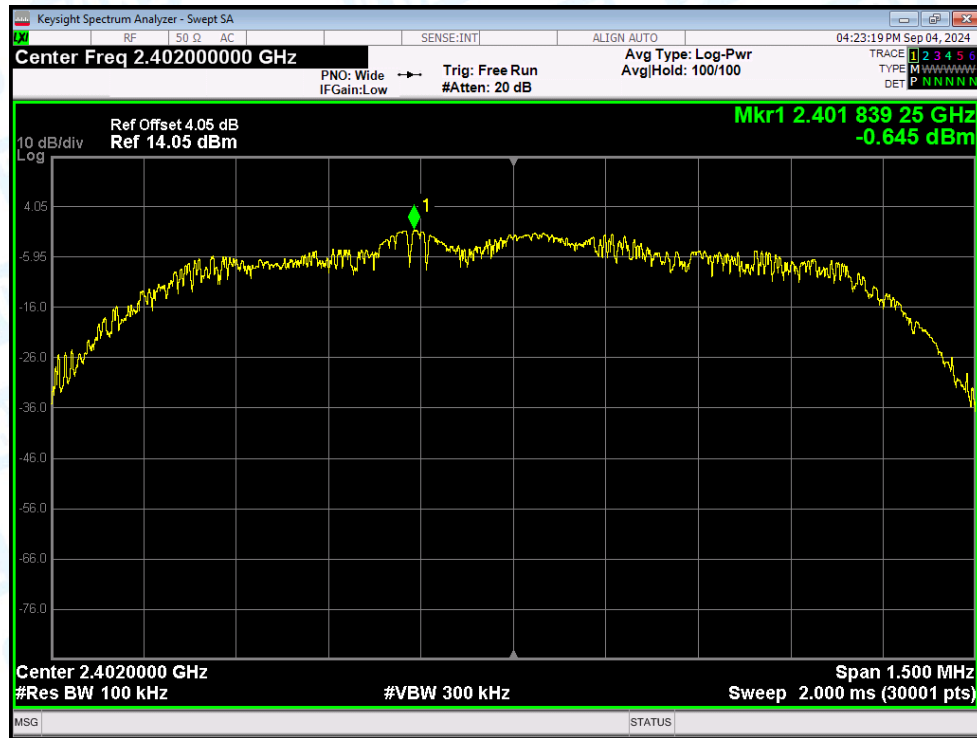
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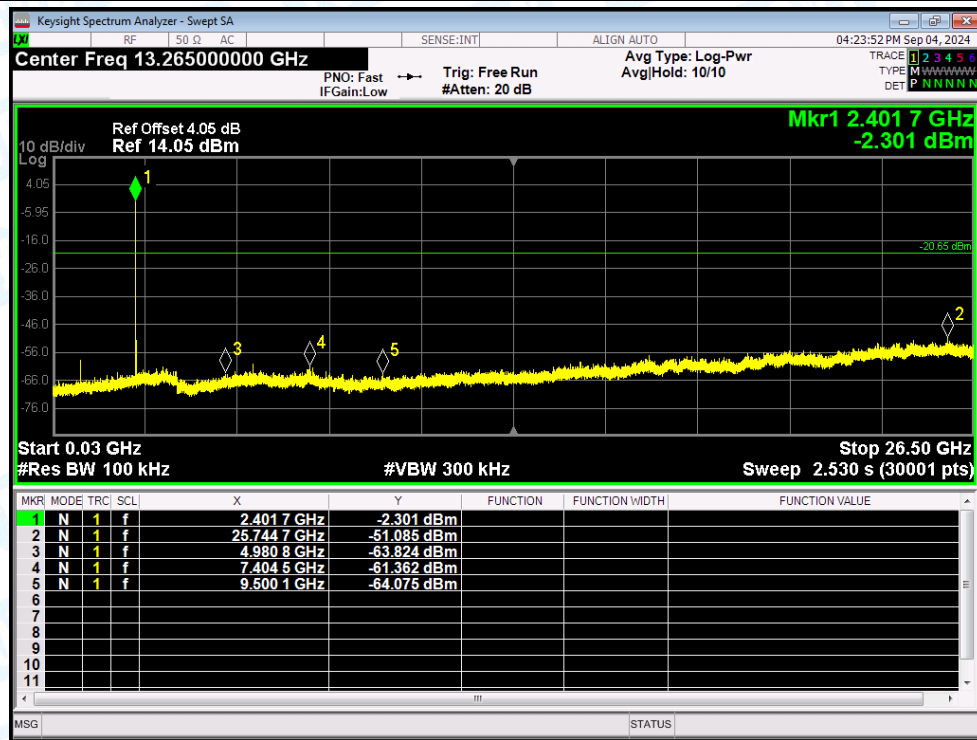
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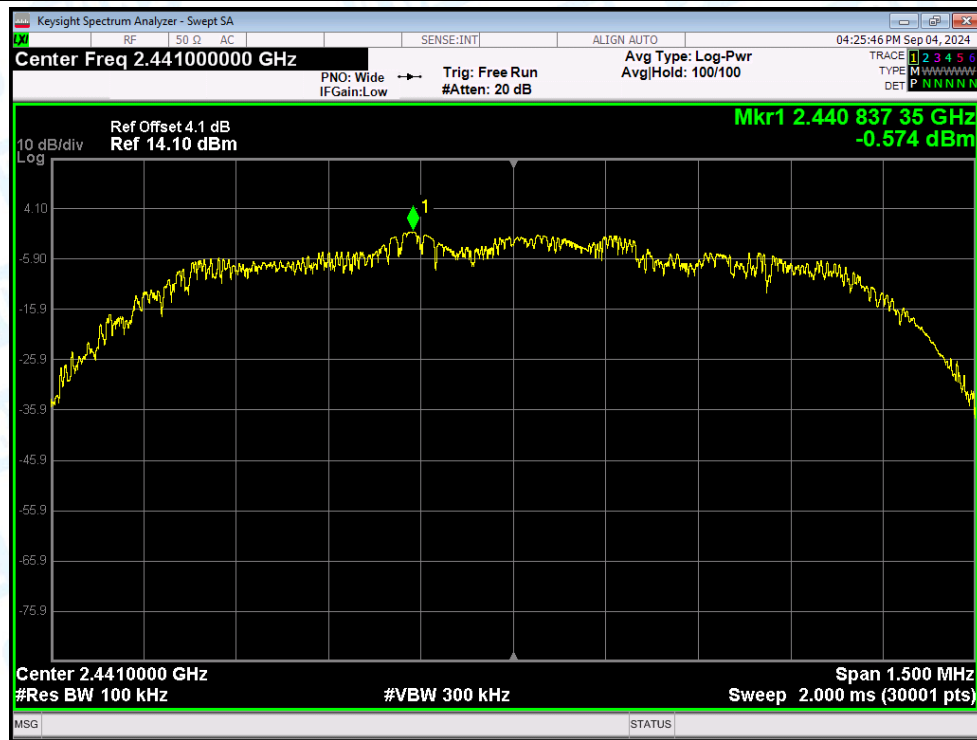
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



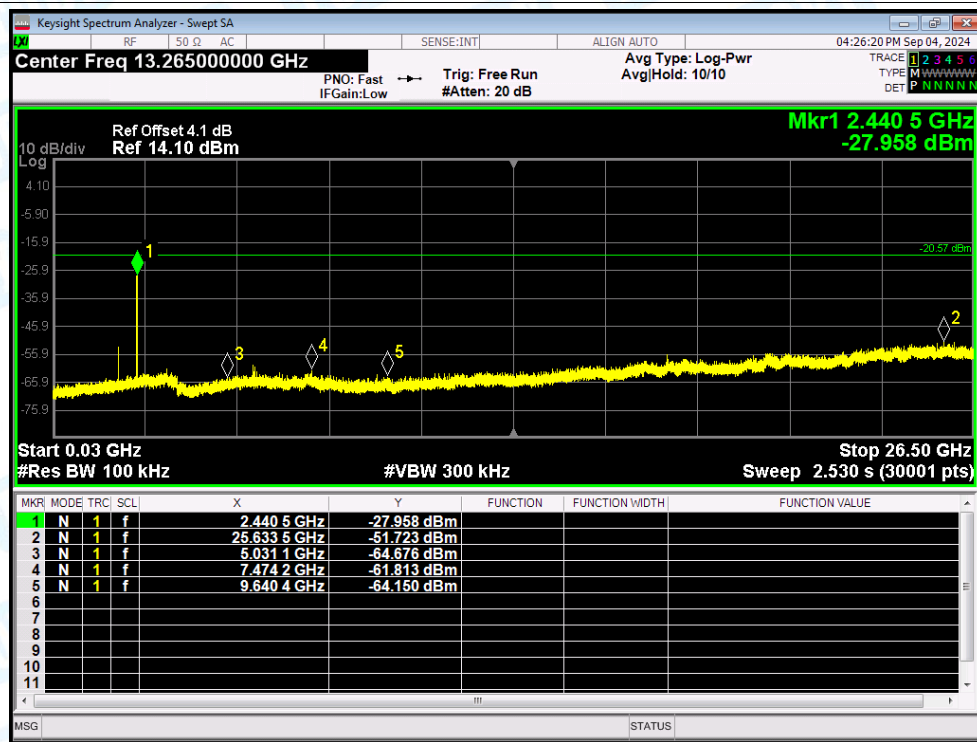
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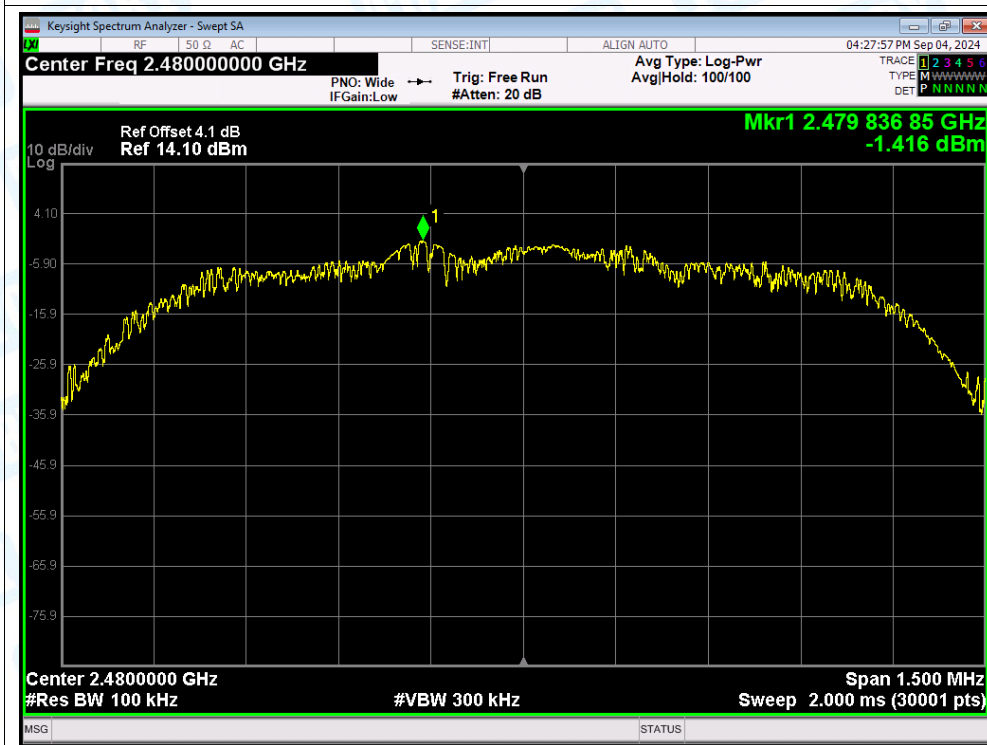
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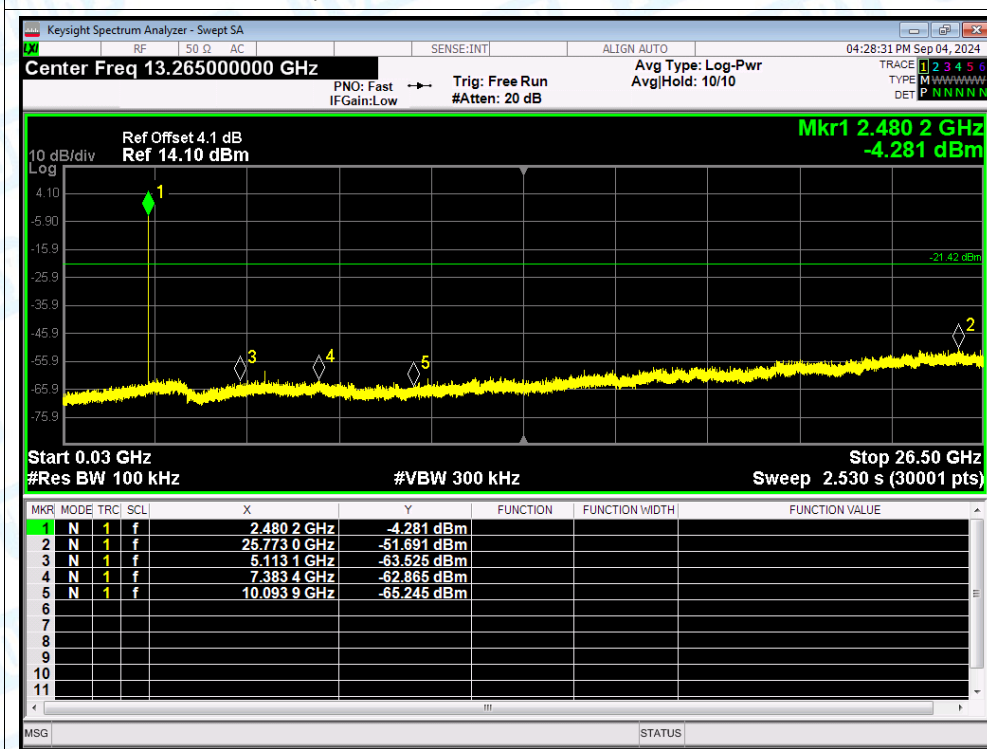
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

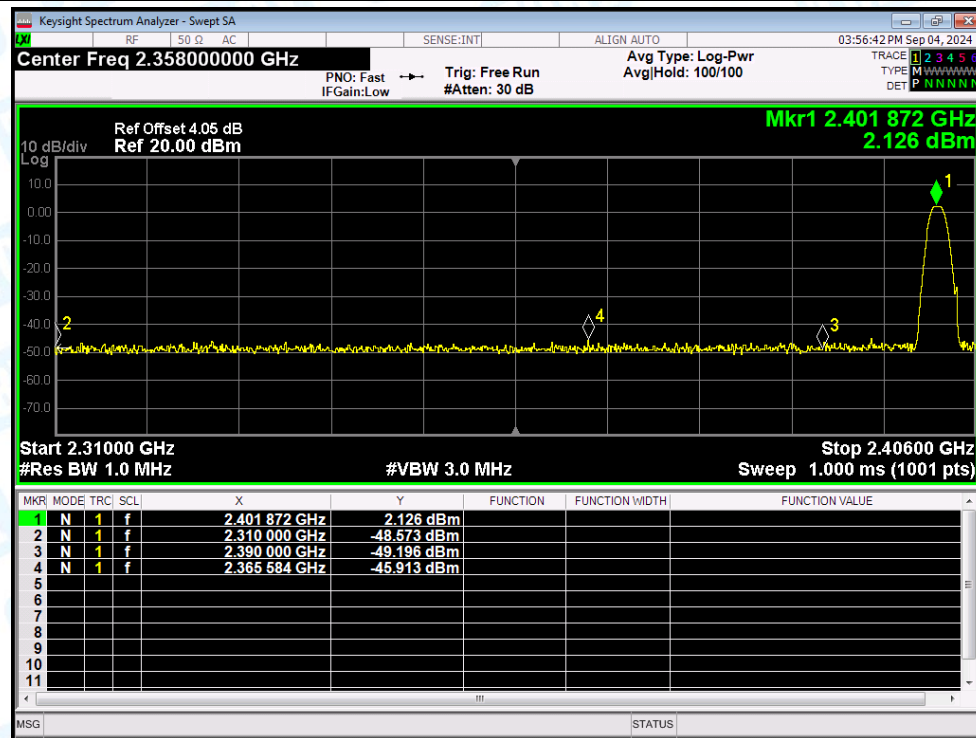


8. Restrict Band

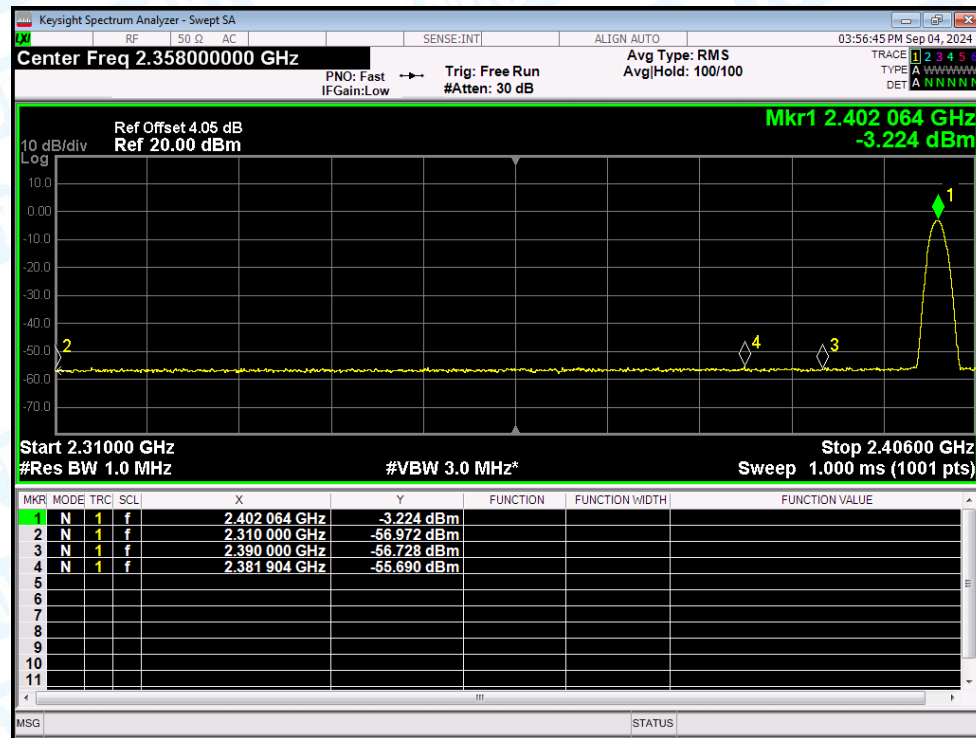
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.57	2	-	48.69	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.97	2	5.06	45.35	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2365.584	-45.91	2	-	51.35	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2381.904	-55.69	2	5.06	46.63	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-49.2	2	-	48.06	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.73	2	5.06	45.59	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.13	2	-	51.13	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-56.5	2	5.06	45.82	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2492.368	-45.15	2	-	52.11	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2495.464	-54.99	2	5.06	47.33	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.45	2	-	49.81	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.76	2	5.06	46.56	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49	2	-	48.26	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-57.02	2	5.17	45.41	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2380.56	-45.54	2	-	51.72	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2362.416	-55.79	2	5.17	46.64	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-48.54	2	-	48.72	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.57	2	5.17	45.86	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.85	2	-	49.41	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-56.49	2	5.17	45.94	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.68	-44.76	2	-	52.5	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.984	-55.2	2	5.17	47.23	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.09	2	-	49.17	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-56.39	2	5.17	46.04	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.62	2	-	48.64	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.29	2	5.17	46.14	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2386.128	-46.14	2	-	51.12	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.104	-56	2	5.17	46.43	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-49.55	2	-	47.71	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.73	2	5.17	45.7	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-48.42	2	-	48.84	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-56.07	2	5.06	46.25	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2495.824	-44.91	2	-	52.35	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2492.608	-55.4	2	5.06	46.92	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.23	2	-	50.03	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-56.05	2	5.06	46.27	Average	54	Pass

Test Graphs

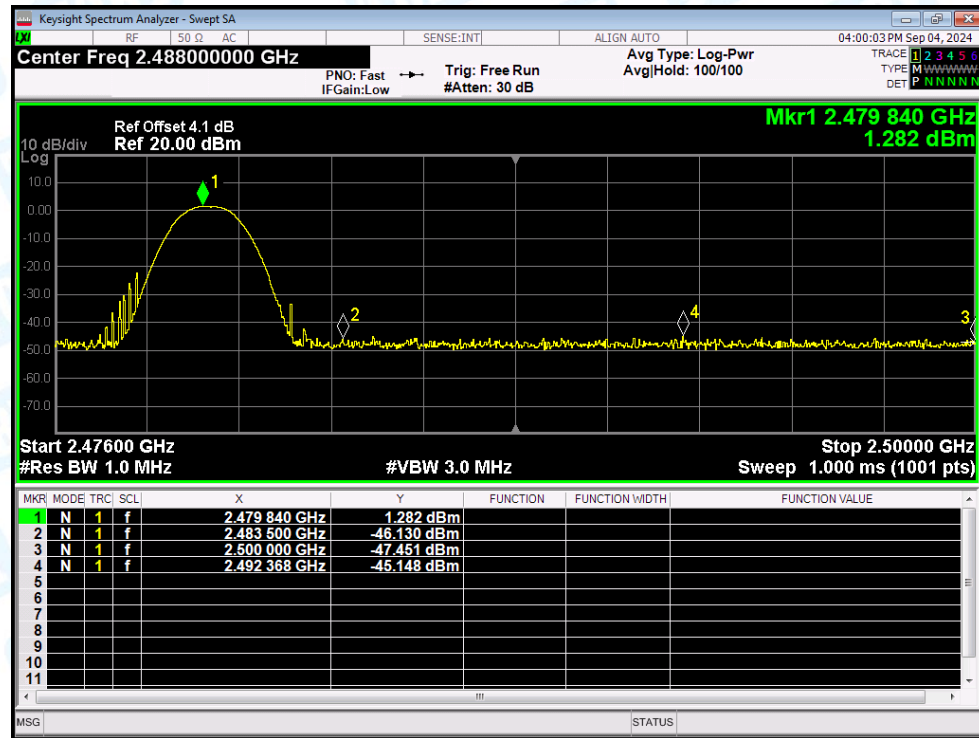
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



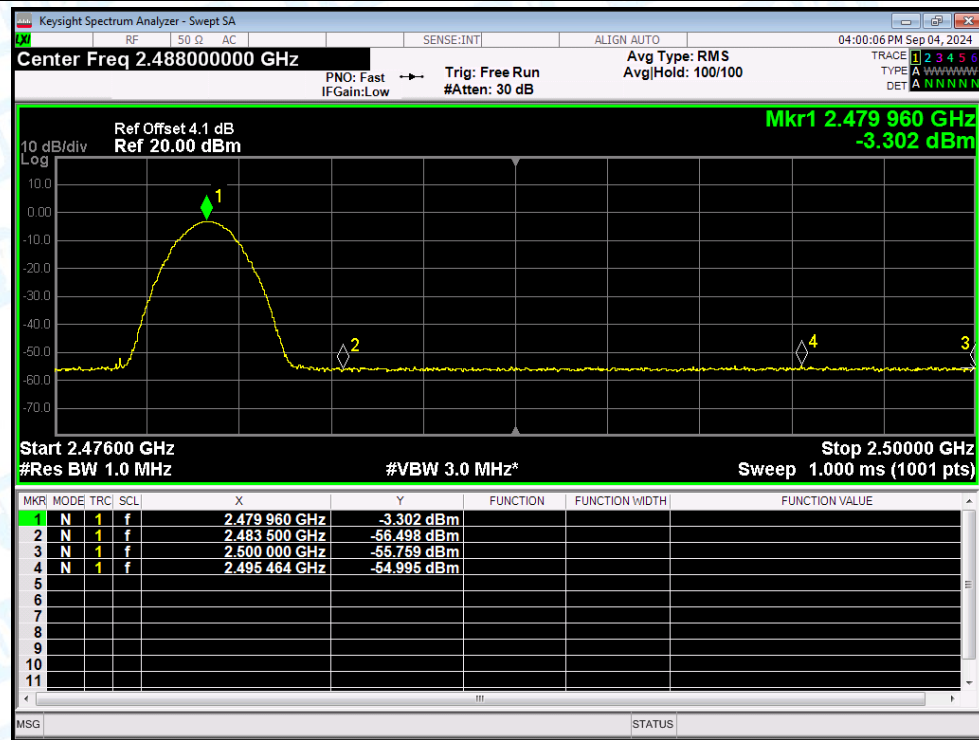
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



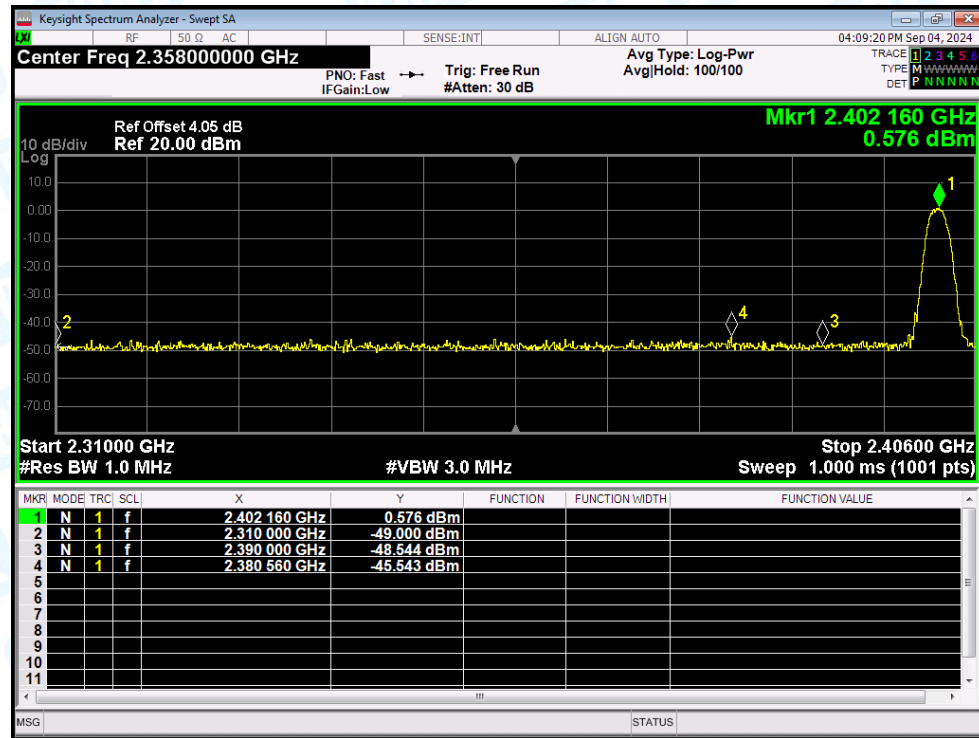
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



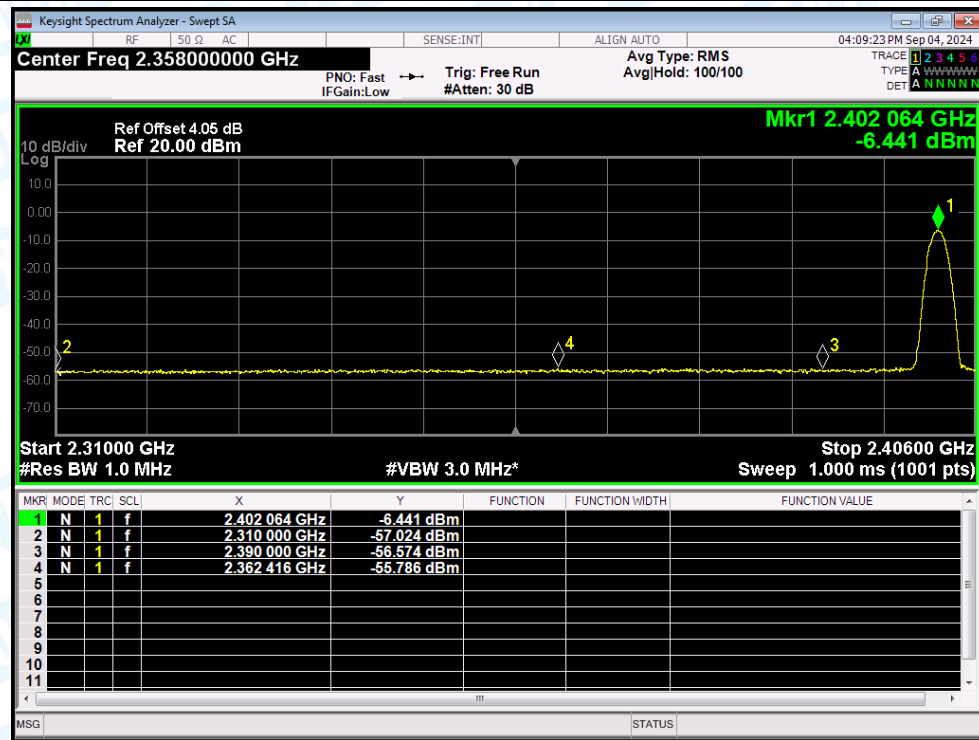
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



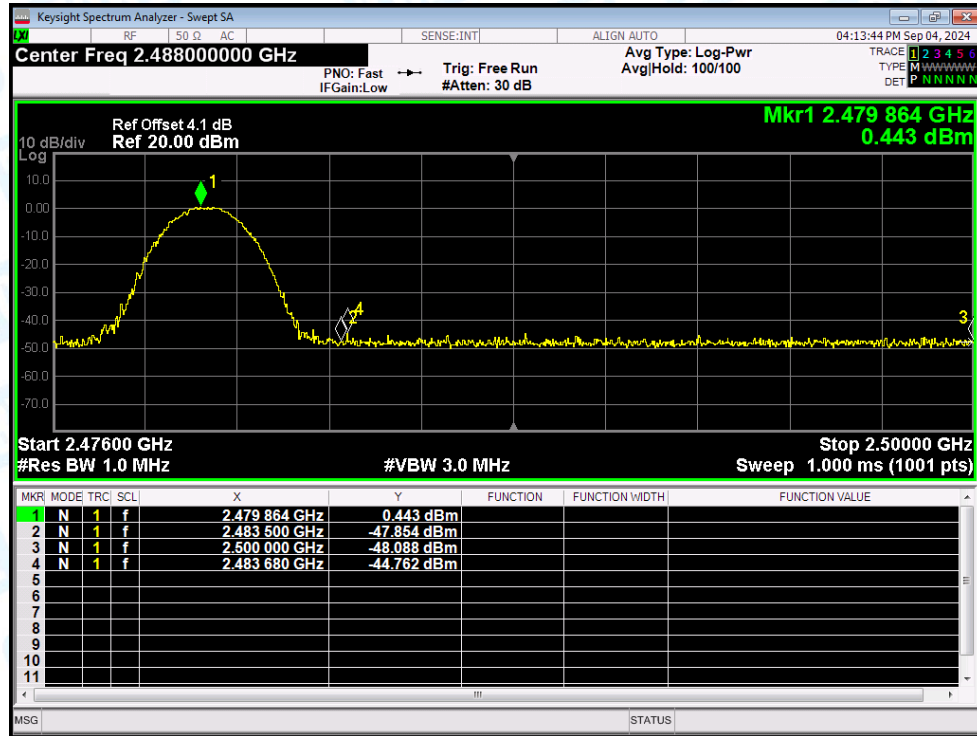
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



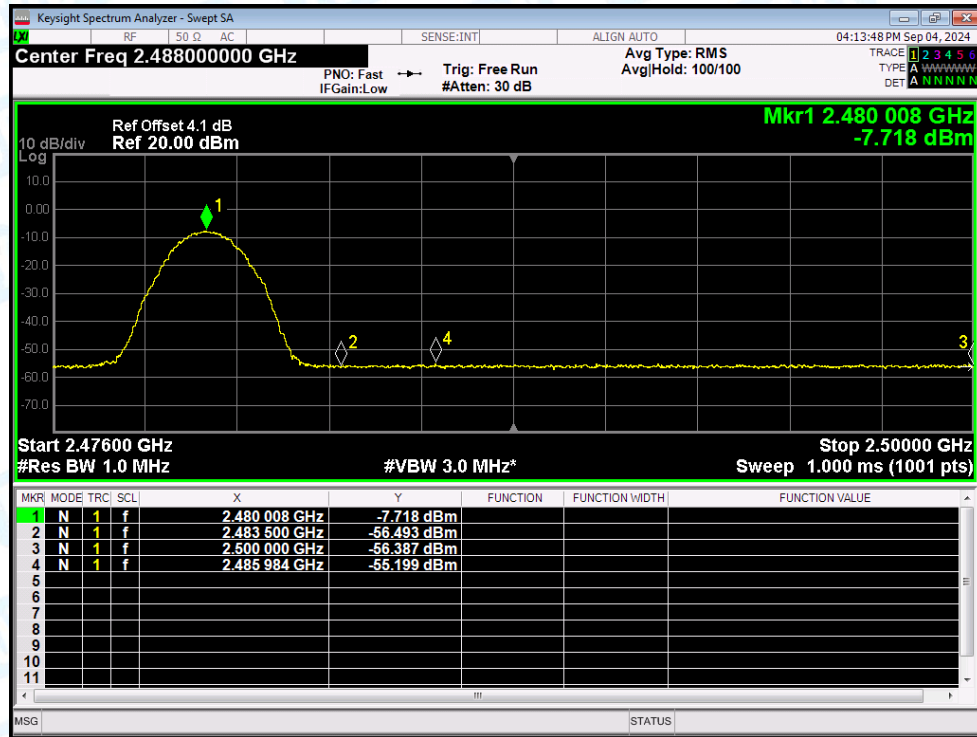
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



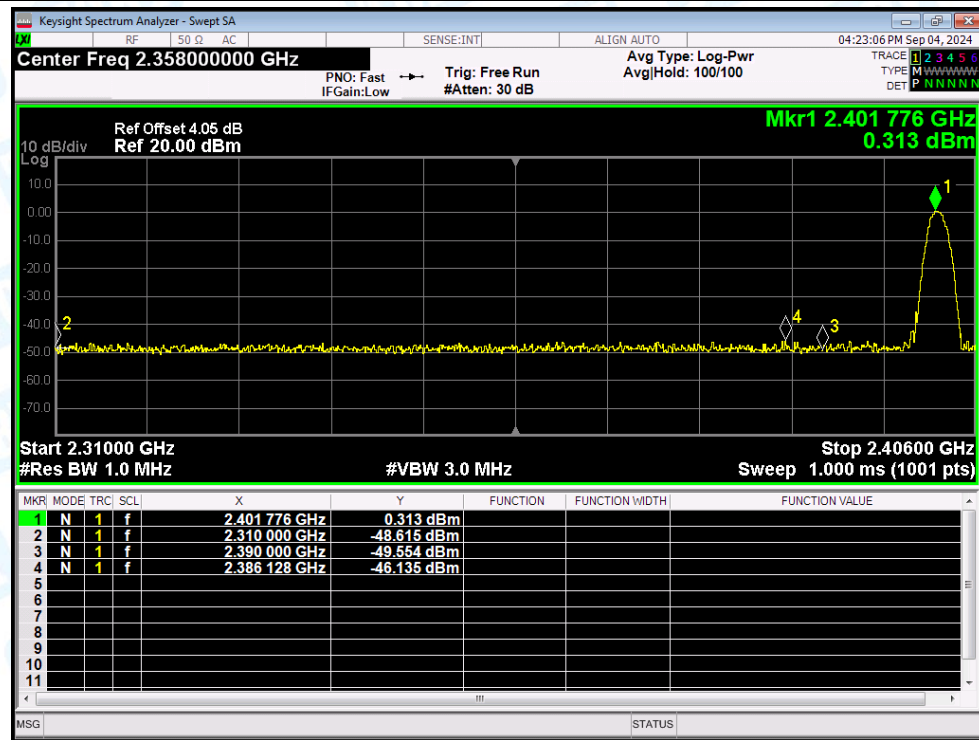
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



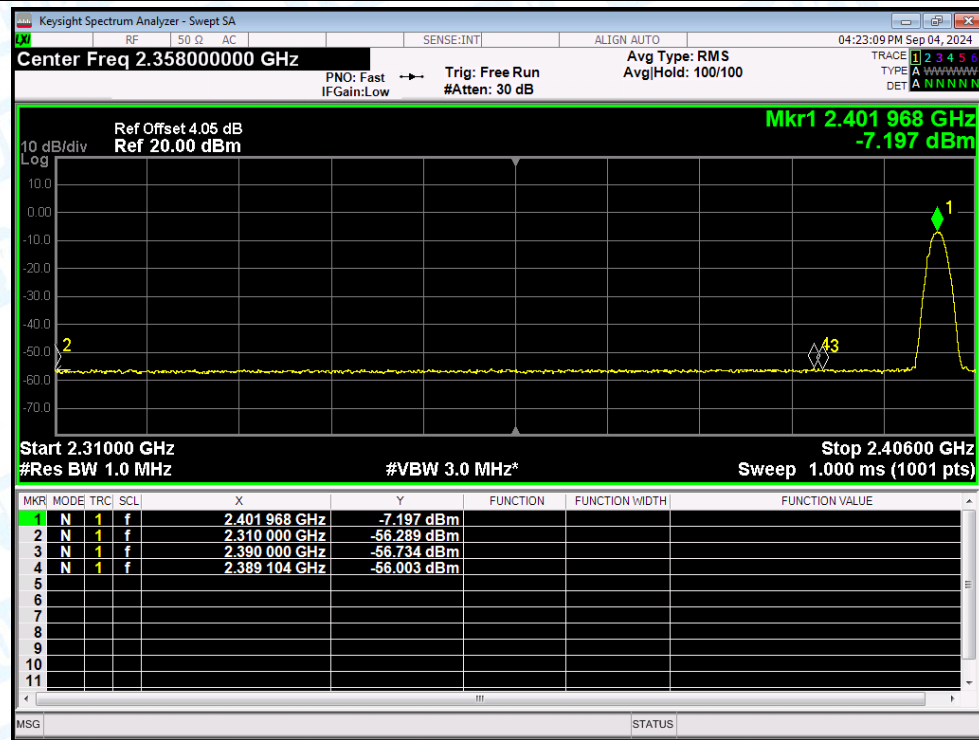
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



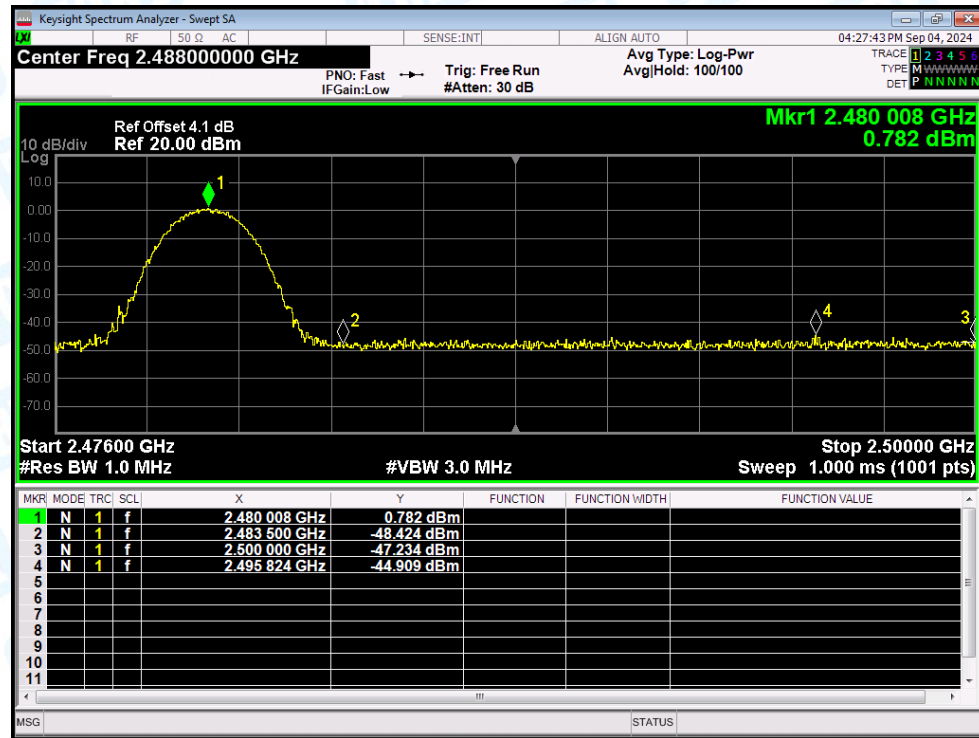
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



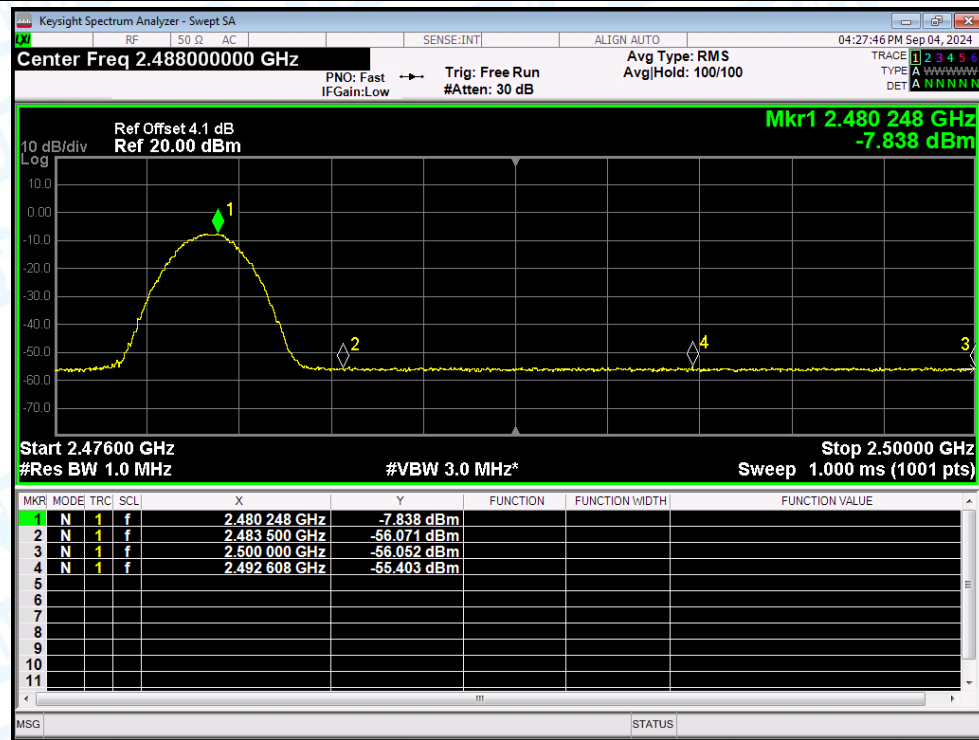
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

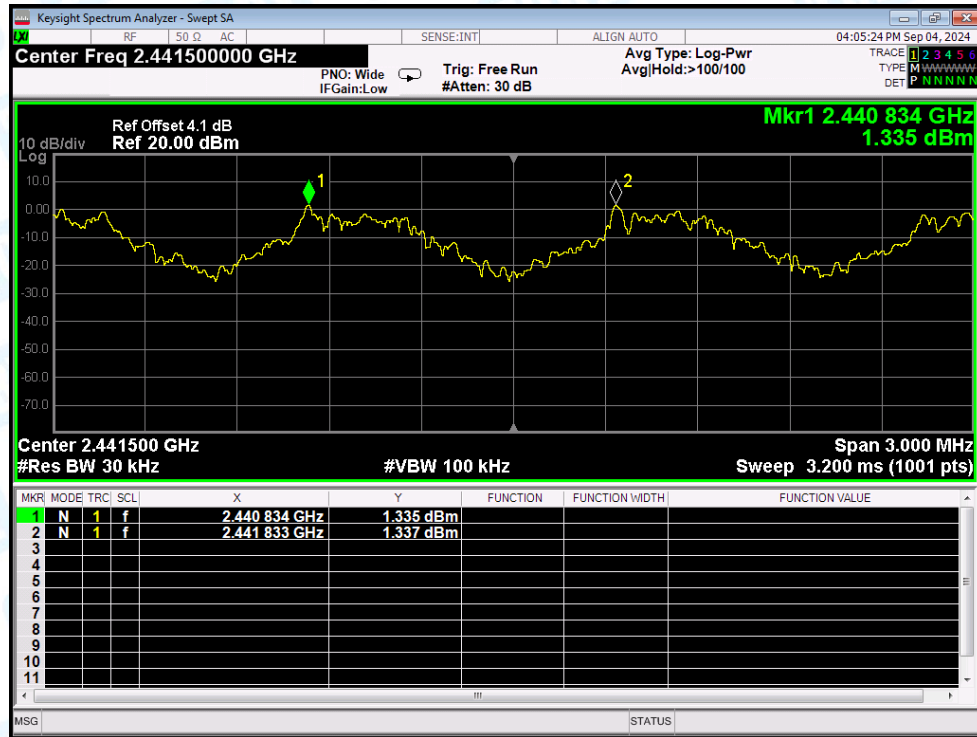


9. Carrier Frequencies Separation

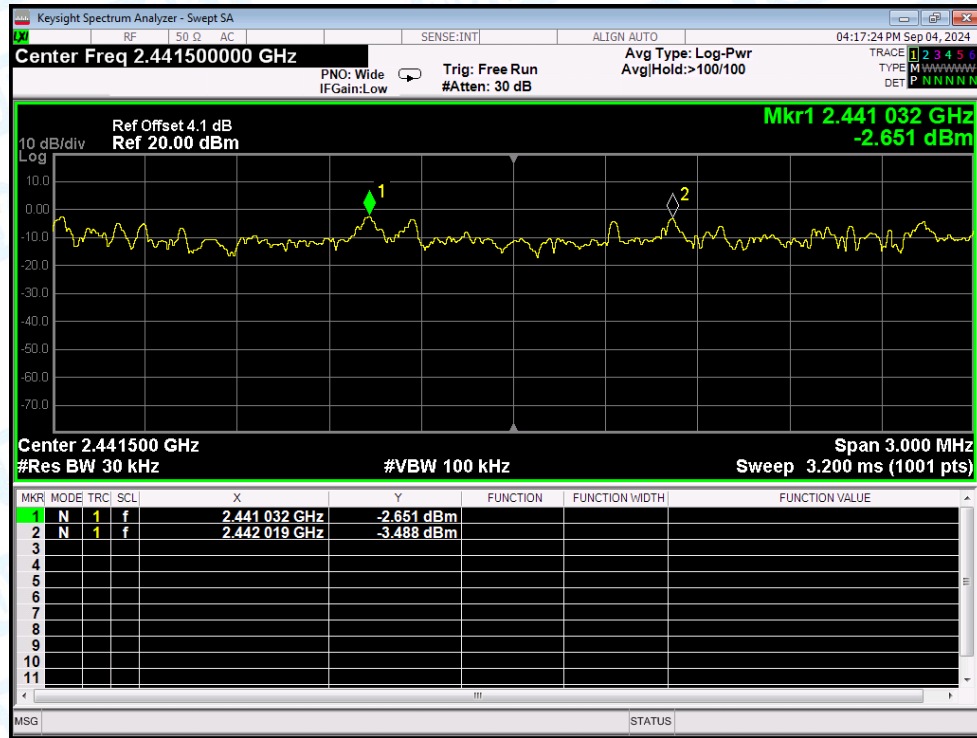
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.834	2441.833	0.999	0.573	Pass
NVNT	2-DH1	Ant1	2441.032	2442.019	0.987	0.84	Pass
NVNT	3-DH1	Ant1	2441.02	2442.019	0.999	0.84	Pass

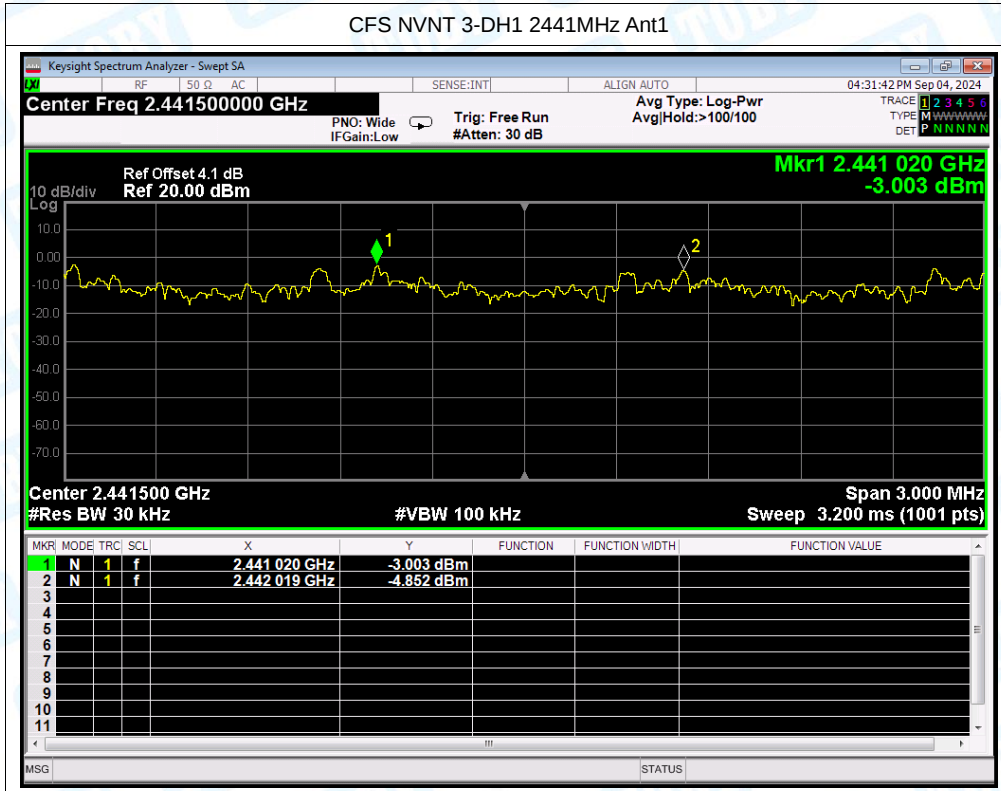
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



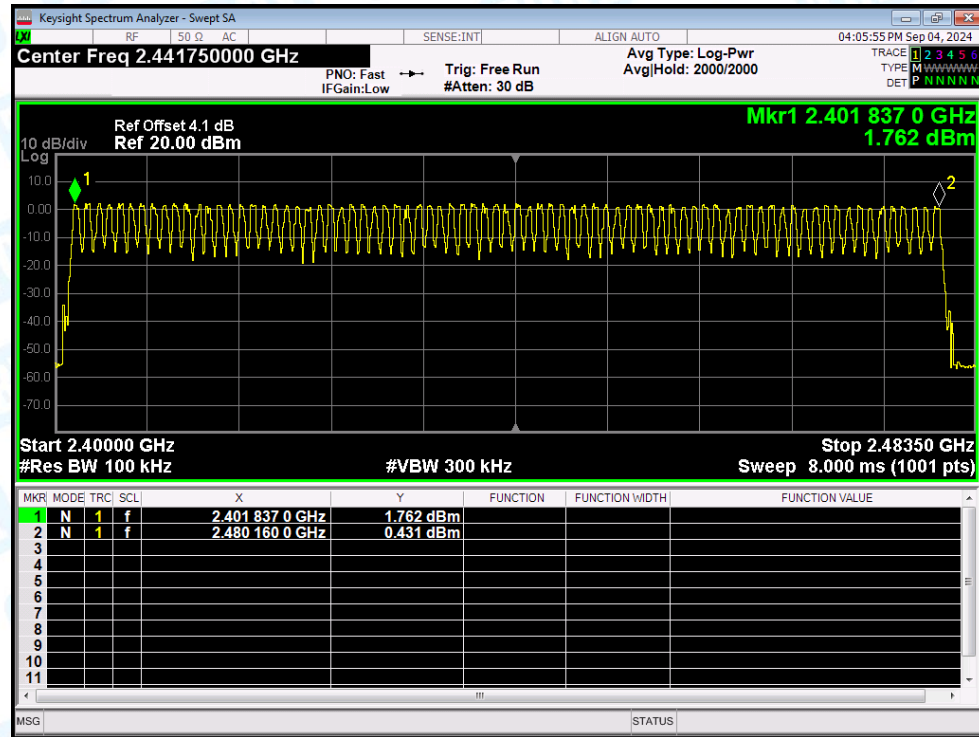


10. Number of Hopping Channel

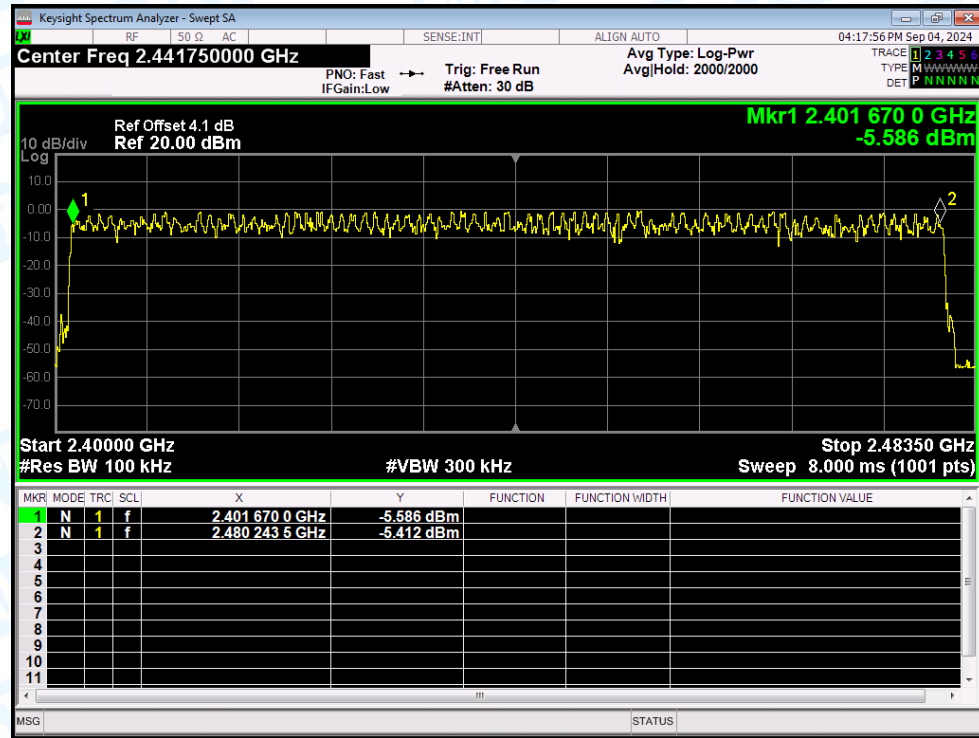
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

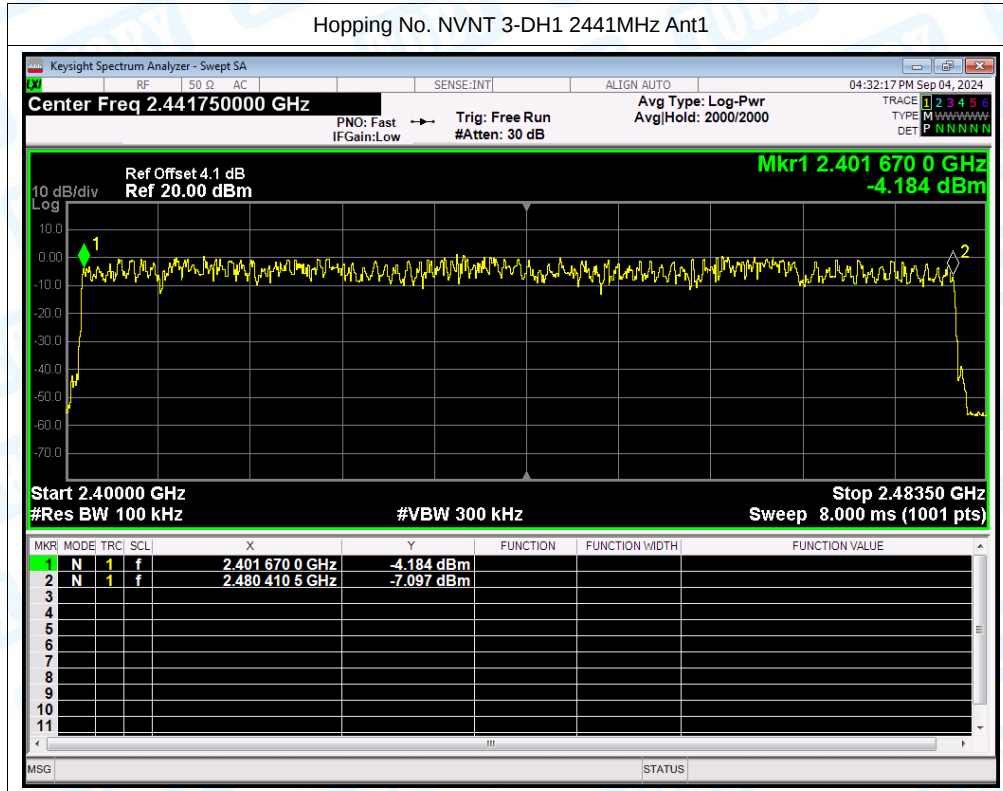
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



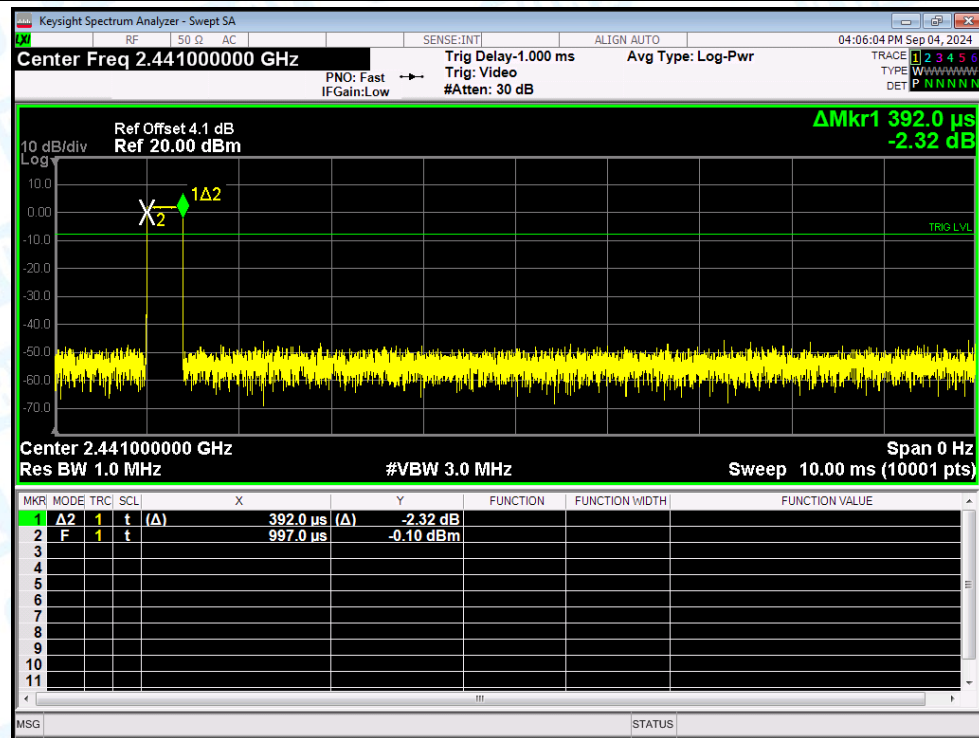


11. Dwell Time

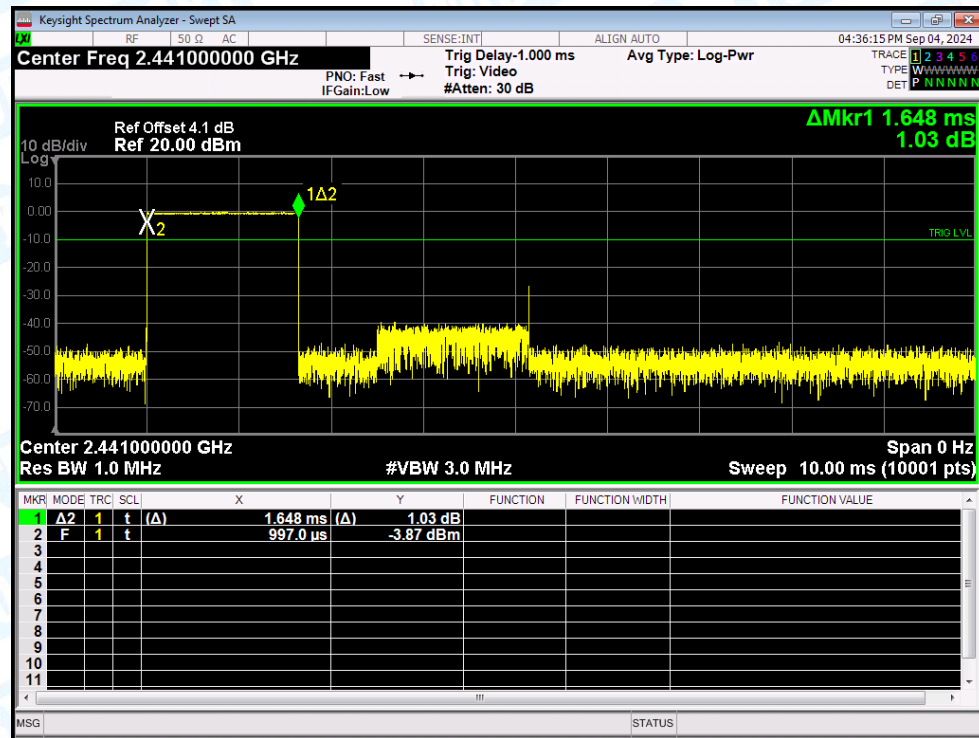
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.648	263.68	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.895	308.8	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	307.627	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.382	122.24	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	307.52	31600	400	Pass

Test Graphs

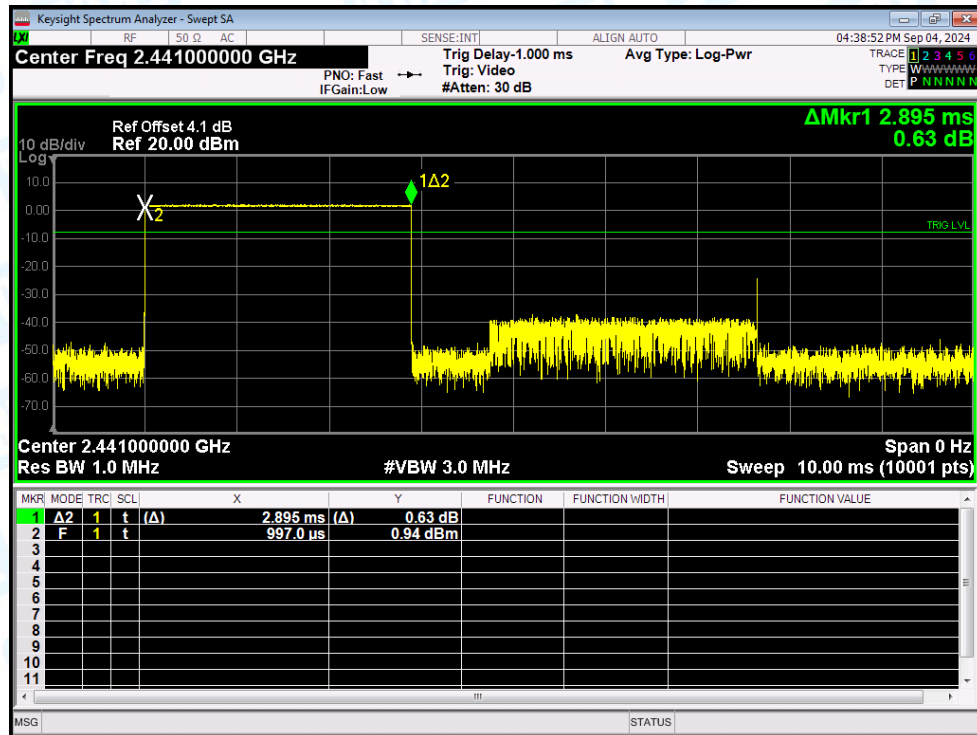
Dwell NVNT 1-DH1 2441MHz Ant1



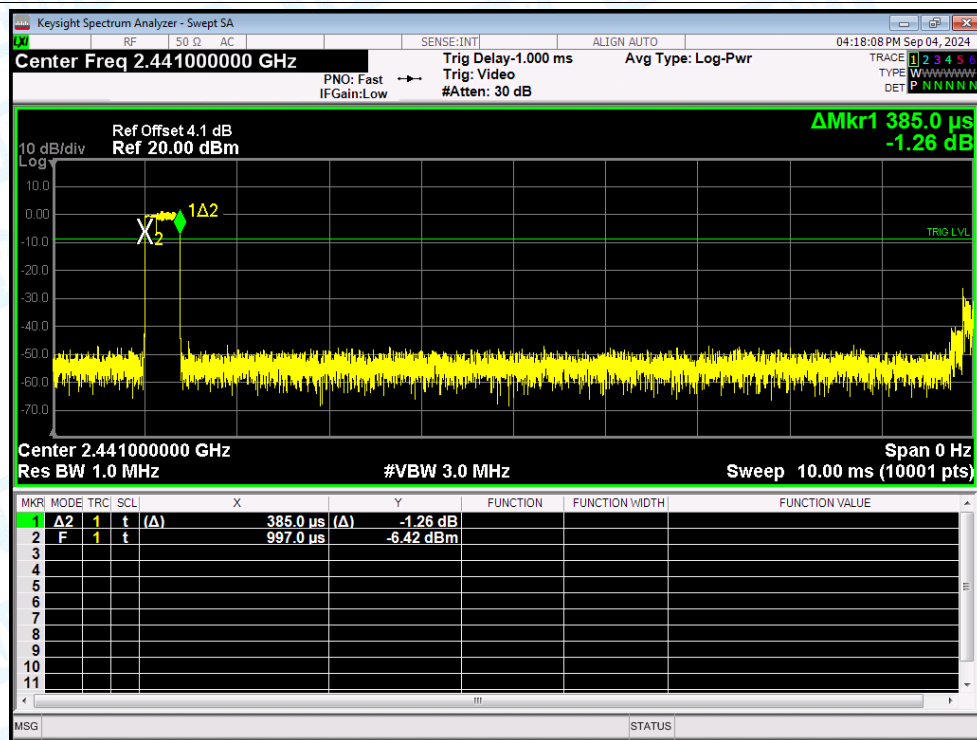
Dwell NVNT 1-DH3 2441MHz Ant1



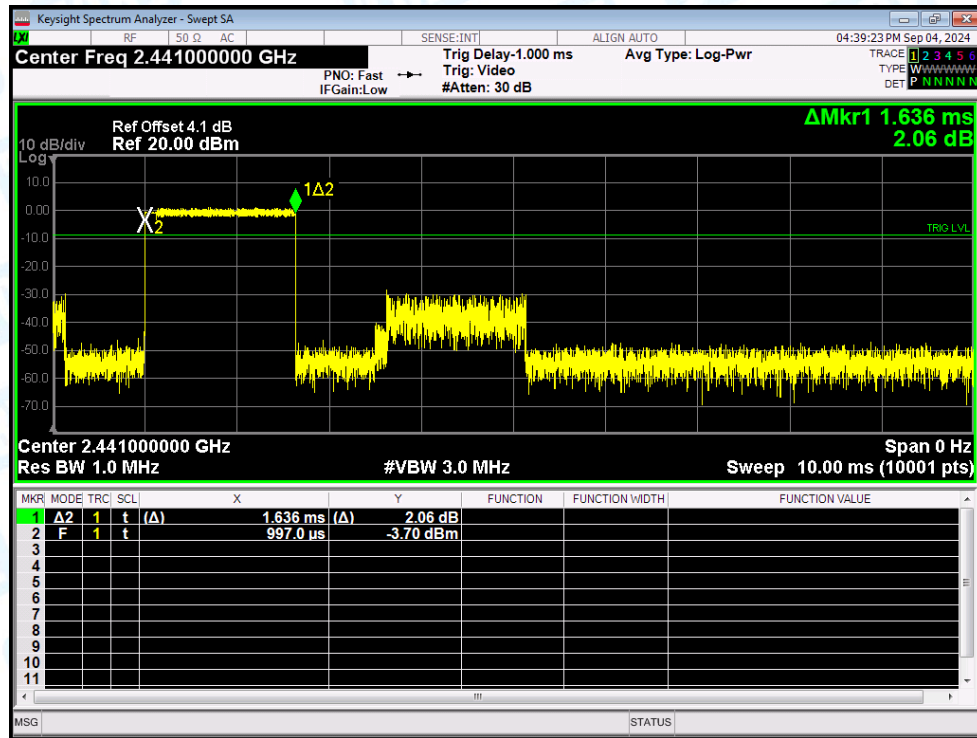
Dwell NVNT 1-DH5 2441MHz Ant1



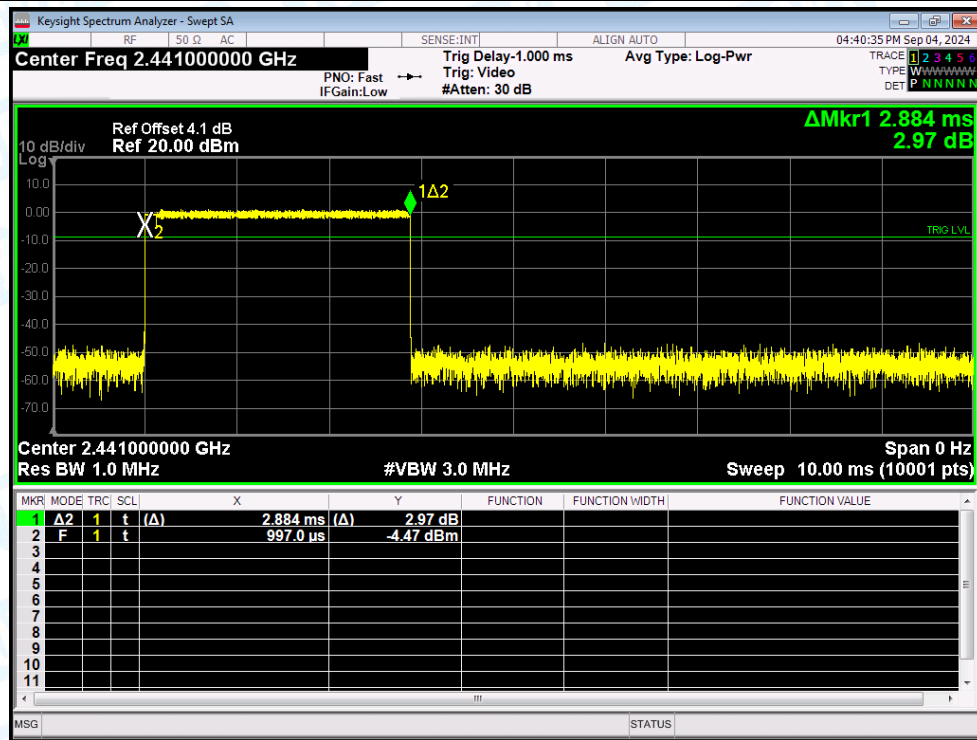
Dwell NVNT 2-DH1 2441MHz Ant1



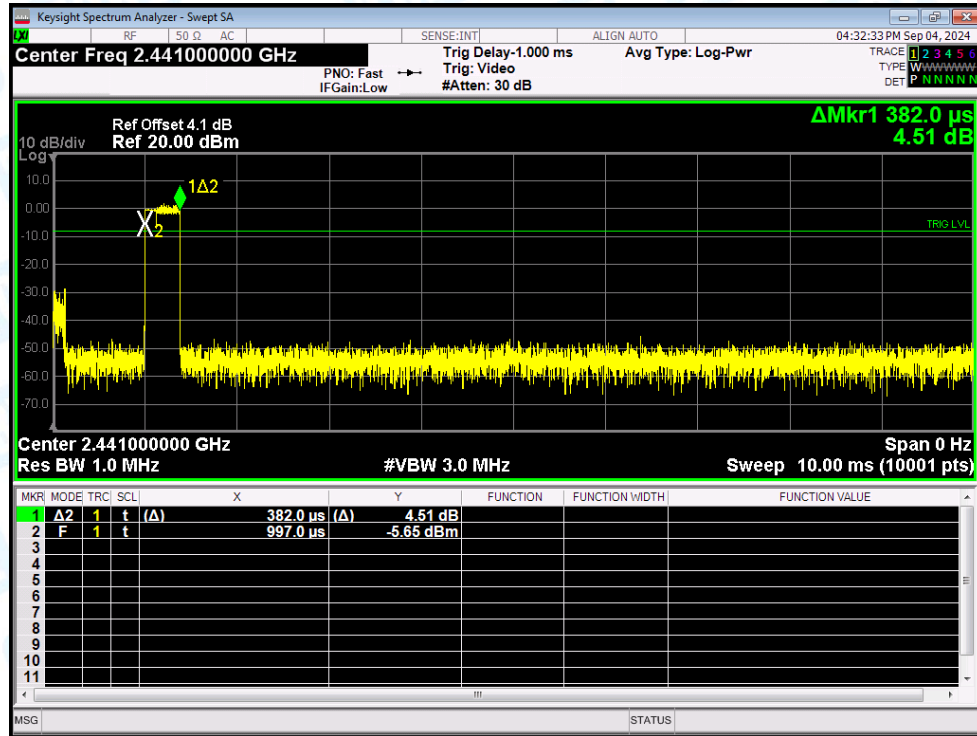
Dwell NVNT 2-DH3 2441MHz Ant1



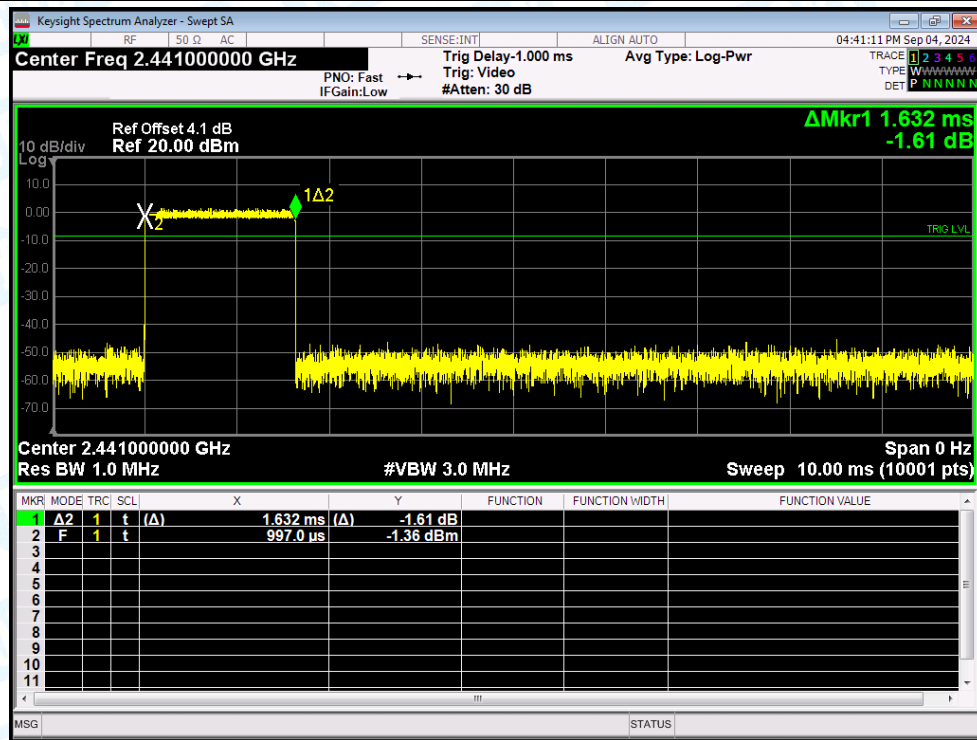
Dwell NVNT 2-DH5 2441MHz Ant1

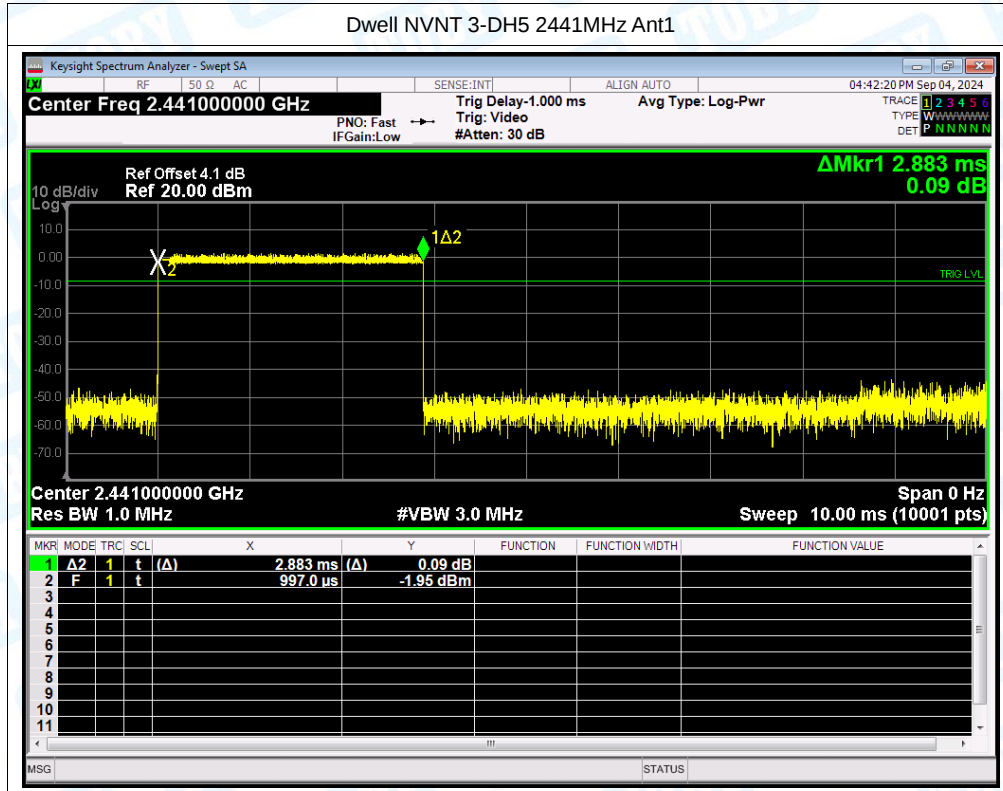


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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