

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Montre sportive GPS intelligente
Test Model:	Y102
Sample ID:	HC-C-202604-0128-01-01
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	48.6%
Test Voltage:	DC 3.8V
Test Engineer:	Lily zhang
Note: For a more detailed features description, please refer to the report TBR-C-202604-0128-41 The report only show the worst case data.	

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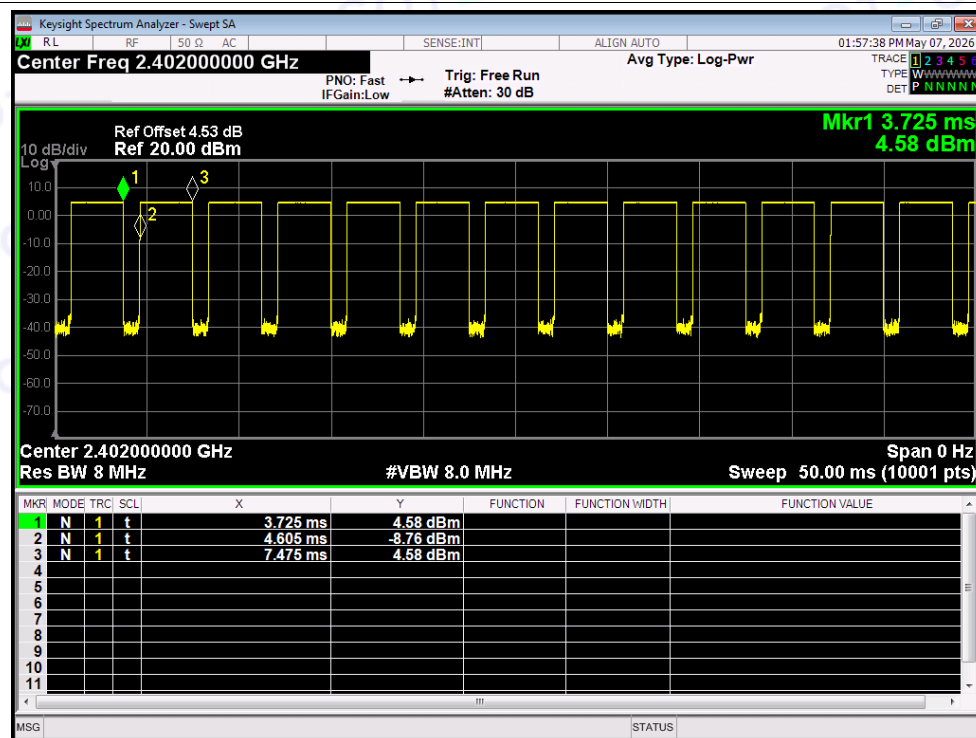
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1. Duty Cycle

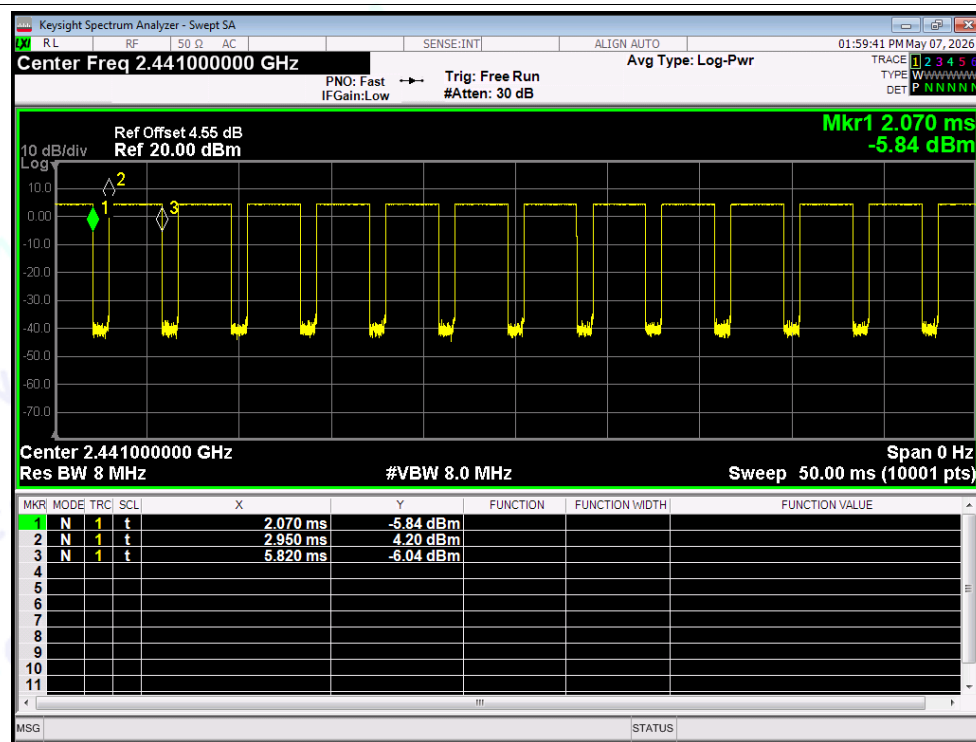
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.53	1.16	0.35
NVNT	1-DH5	2441	Ant1	76.53	1.16	0.35
NVNT	1-DH5	2480	Ant1	76.53	1.16	0.35
NVNT	2-DH5	2402	Ant1	76.93	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.93	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.93	1.14	0.35
NVNT	3-DH5	2402	Ant1	76.8	1.15	0.35
NVNT	3-DH5	2441	Ant1	76.93	1.14	0.35
NVNT	3-DH5	2480	Ant1	76.8	1.15	0.35

Test Graphs

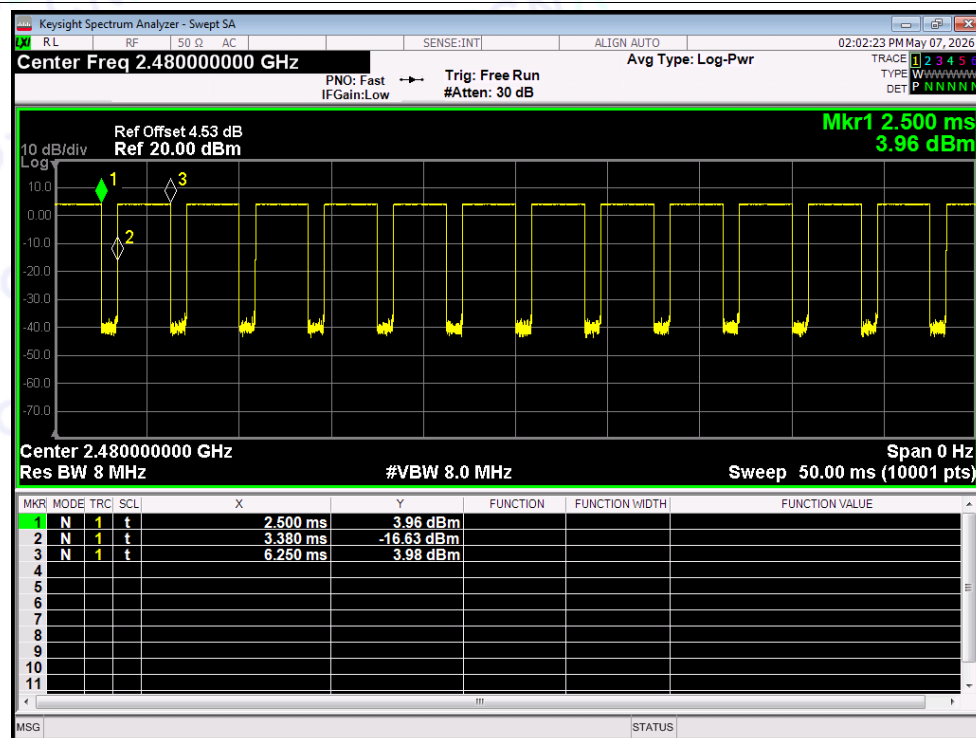
Duty Cycle NVNT 1-DH5 2402MHz Ant1



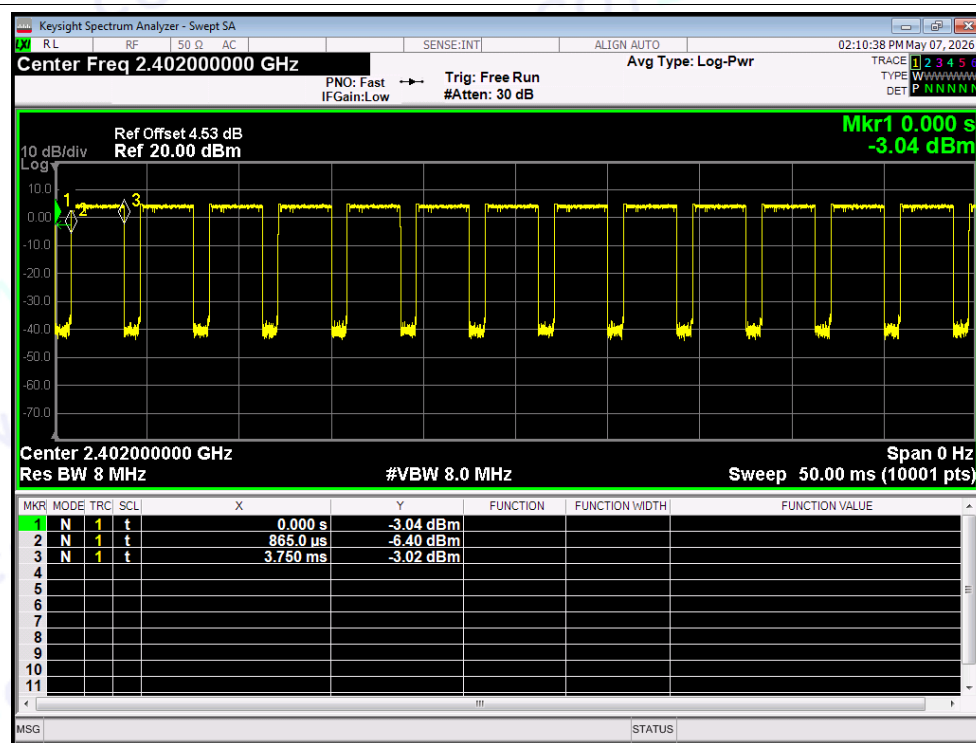
Duty Cycle NVNT 1-DH5 2441MHz Ant1



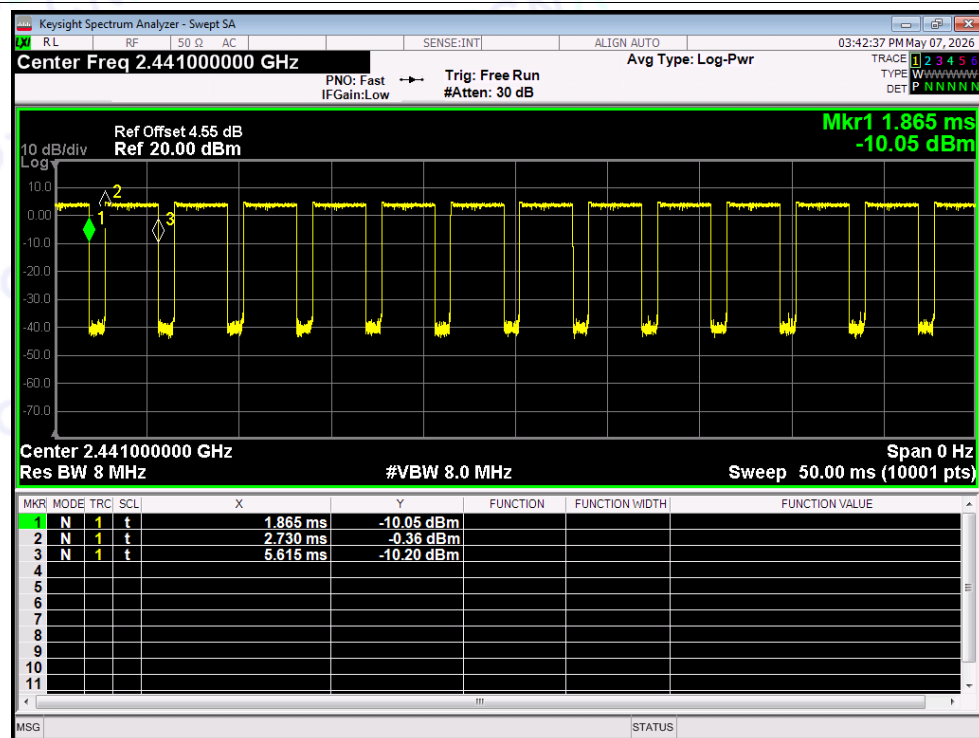
Duty Cycle NVNT 1-DH5 2480MHz Ant1



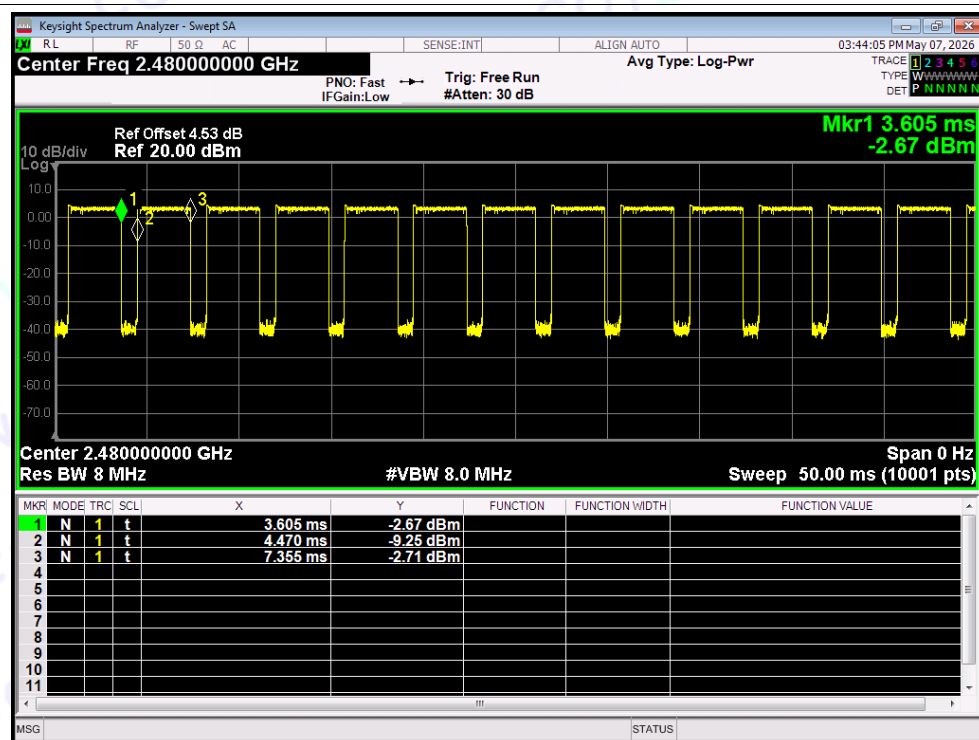
Duty Cycle NVNT 2-DH5 2402MHz Ant1



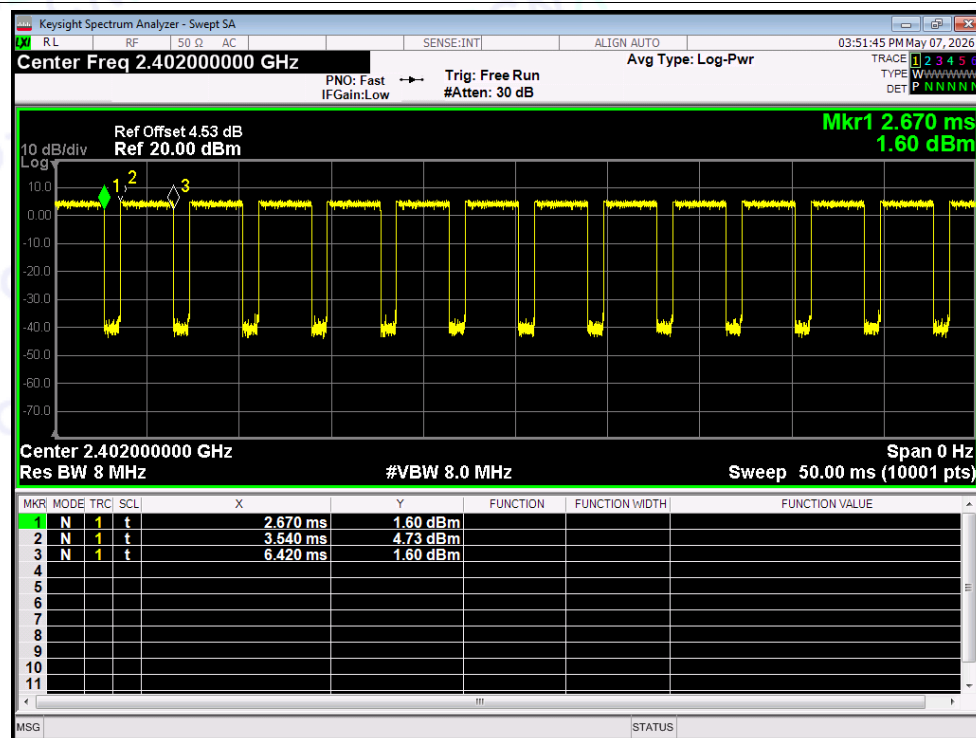
Duty Cycle NVNT 2-DH5 2441MHz Ant1



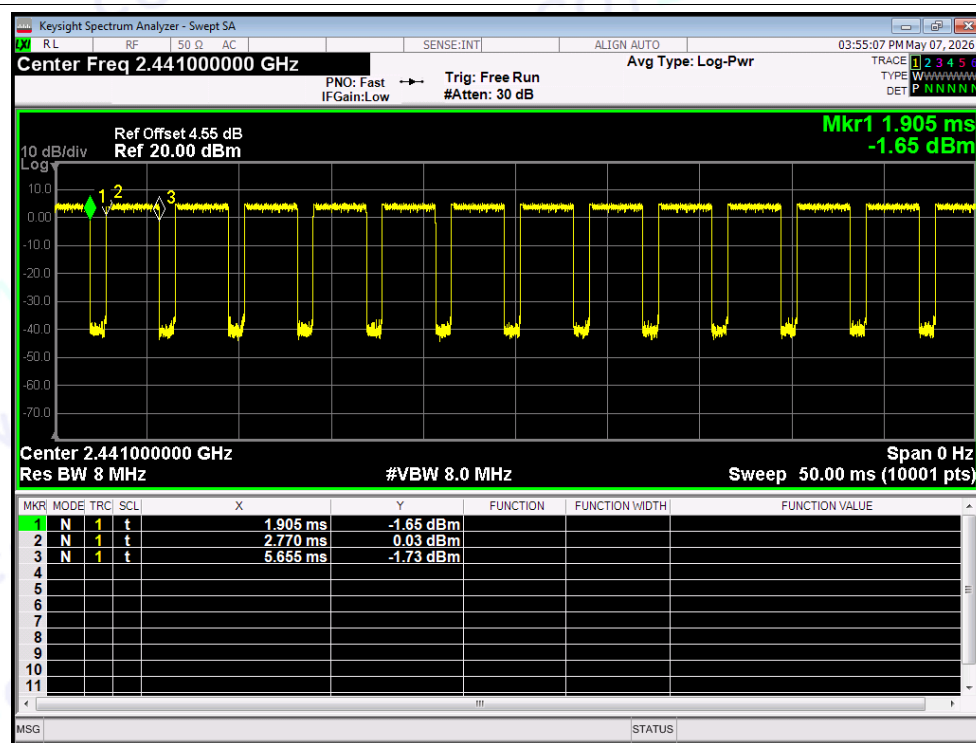
Duty Cycle NVNT 2-DH5 2480MHz Ant1

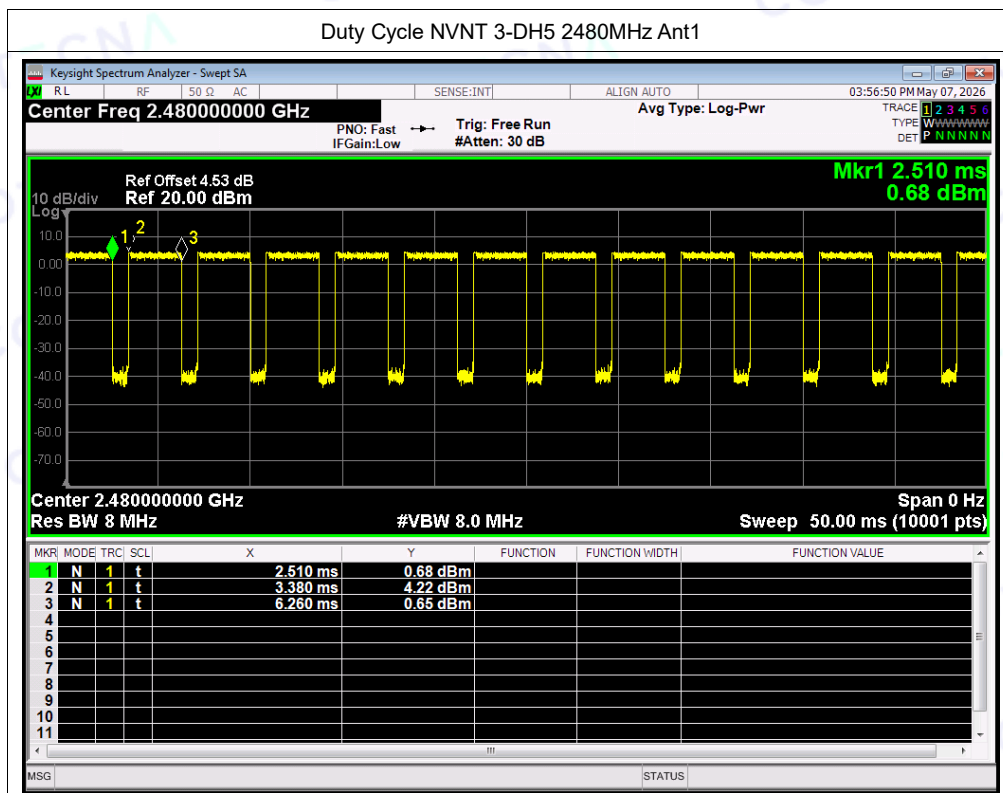


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



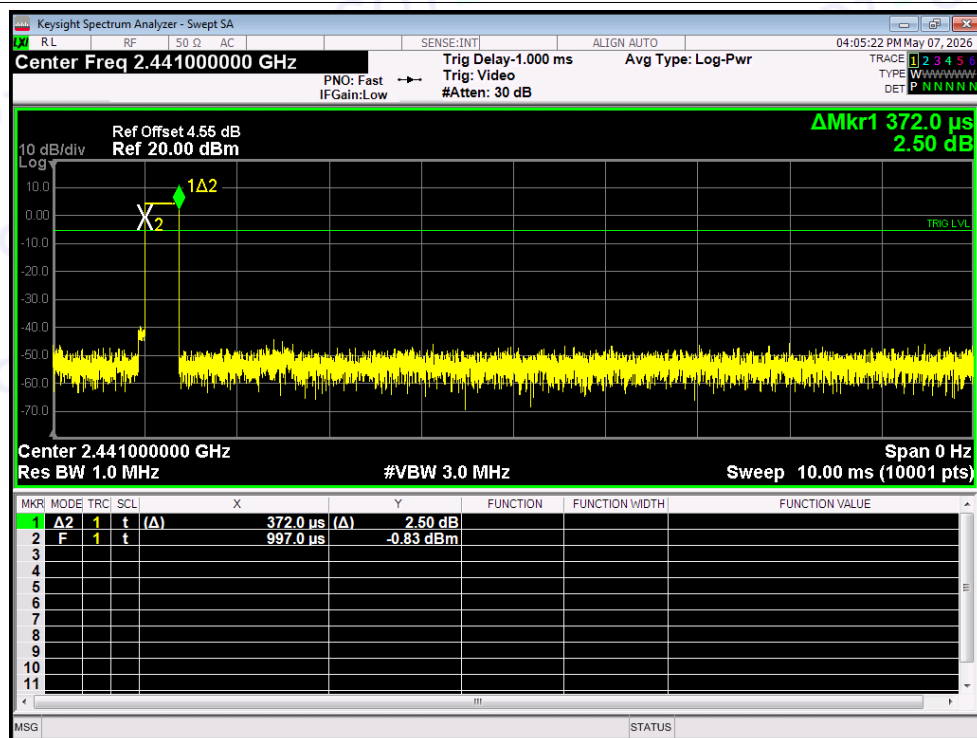


2. Dwell Time

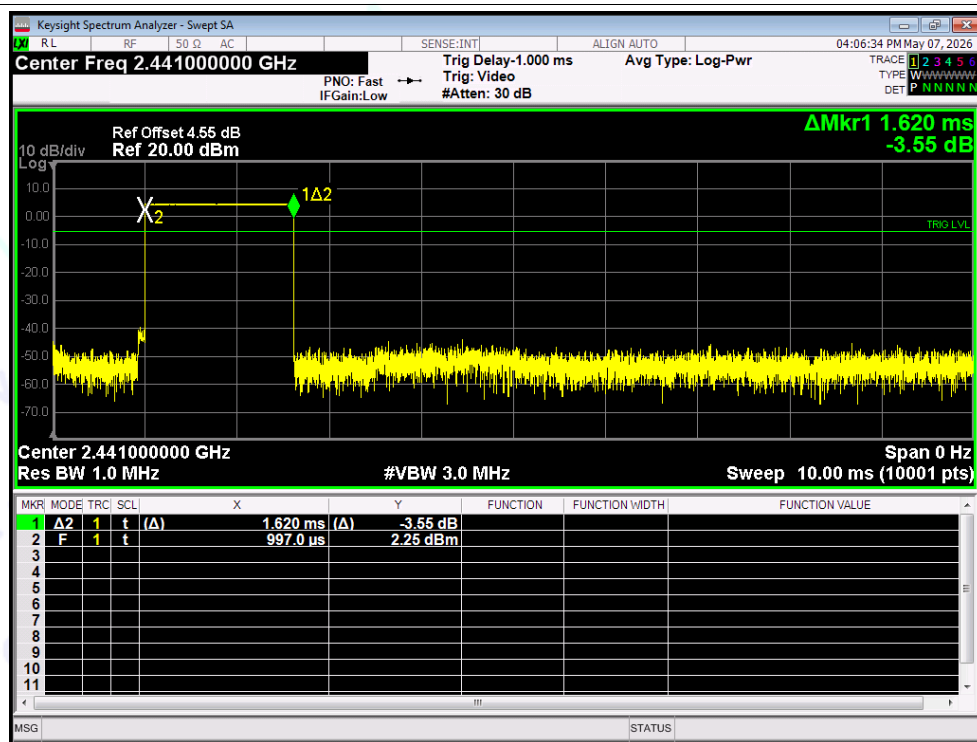
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.372	119.04	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.62	259.2	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.869	306.027	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.38	121.6	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	307.2	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.63	260.8	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.881	307.307	31600	400	Pass

Test Graphs

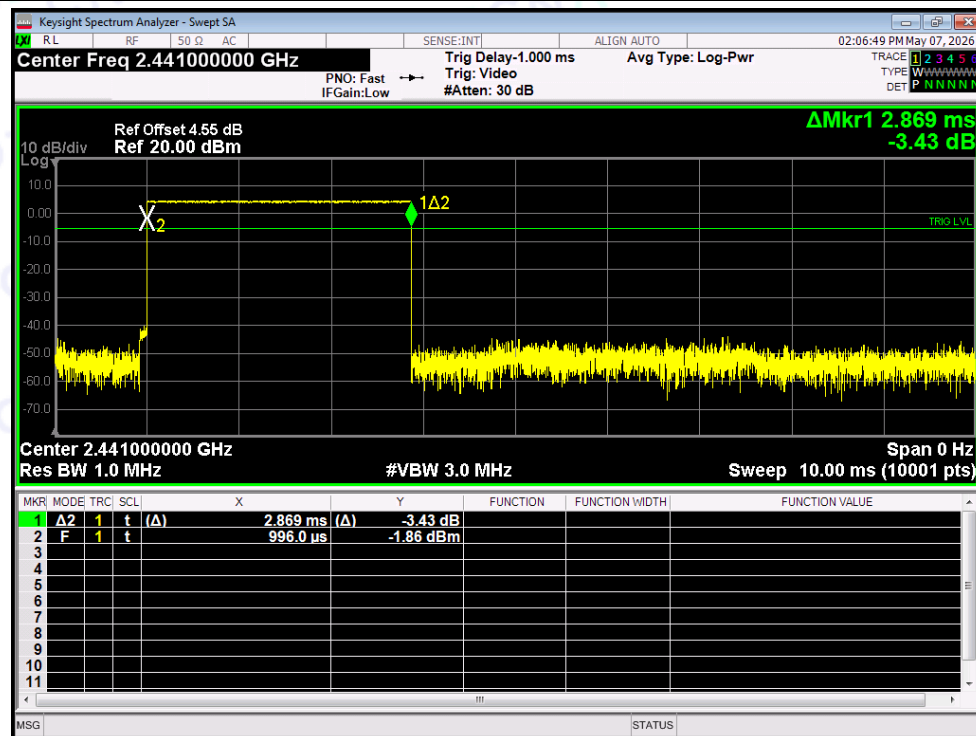
Dwell NVNT 1-DH1 2441MHz Ant1



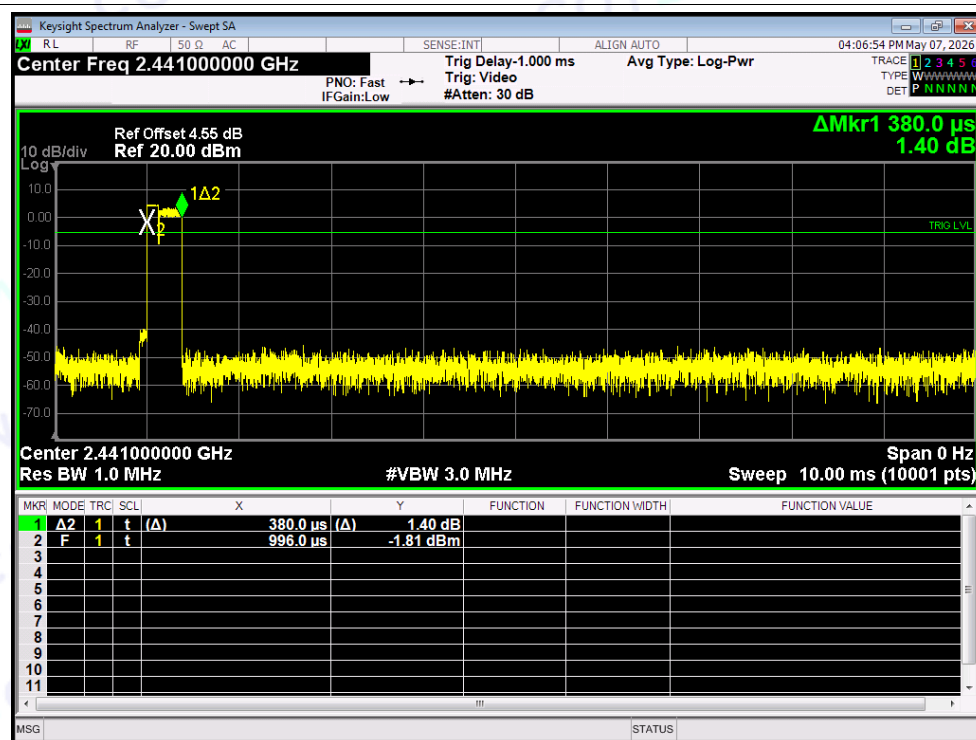
Dwell NVNT 1-DH3 2441MHz Ant1



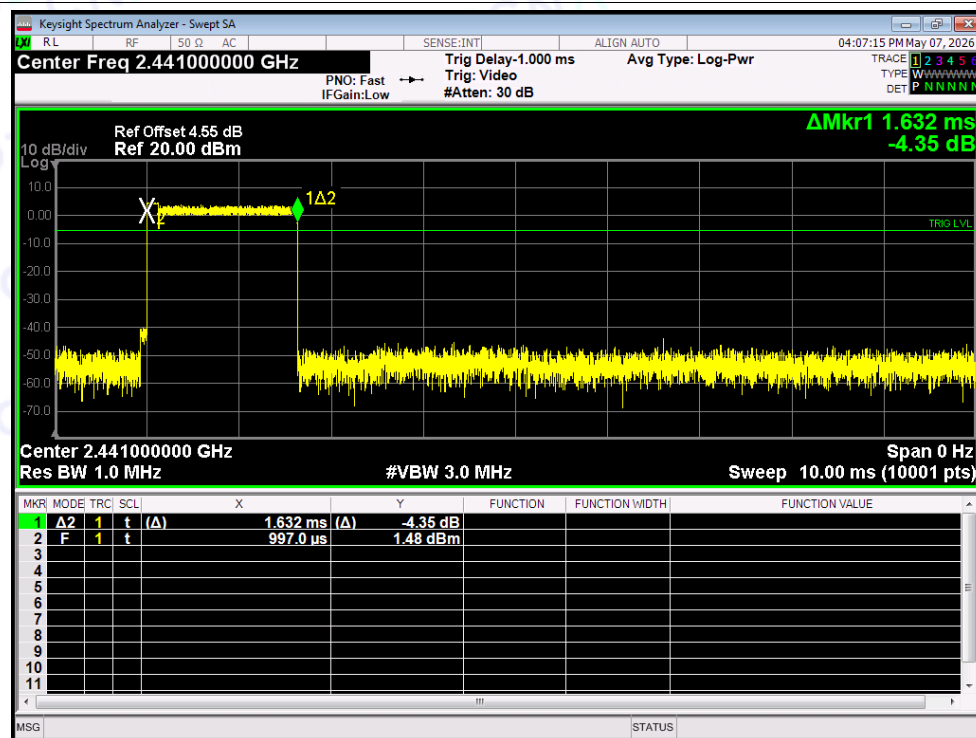
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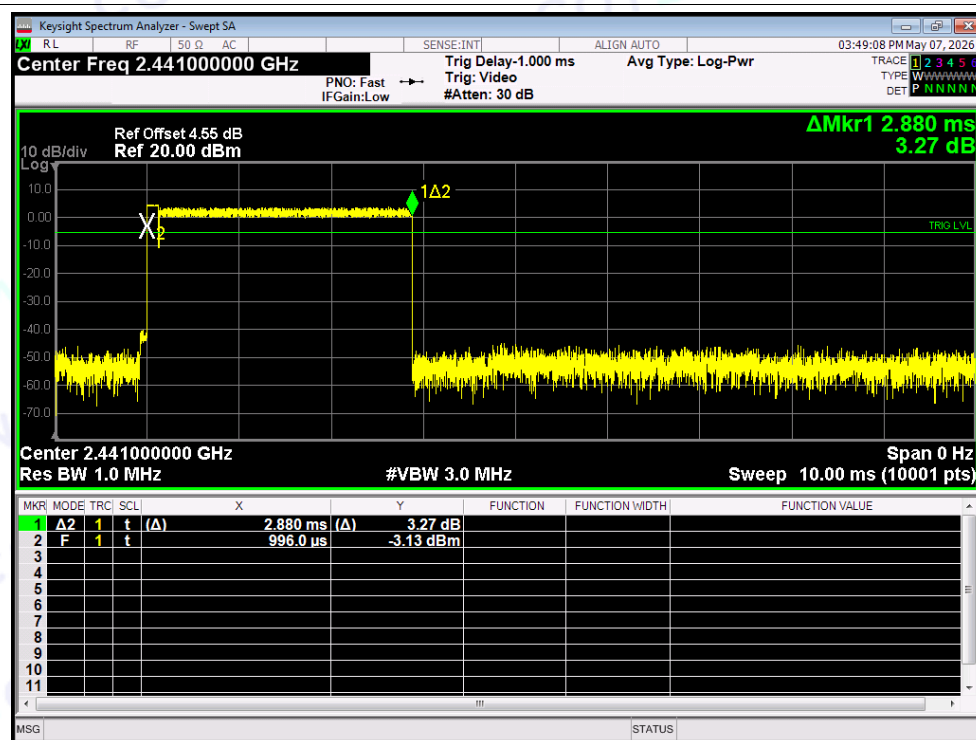
Dwell NVNT 2-DH1 2441MHz Ant1



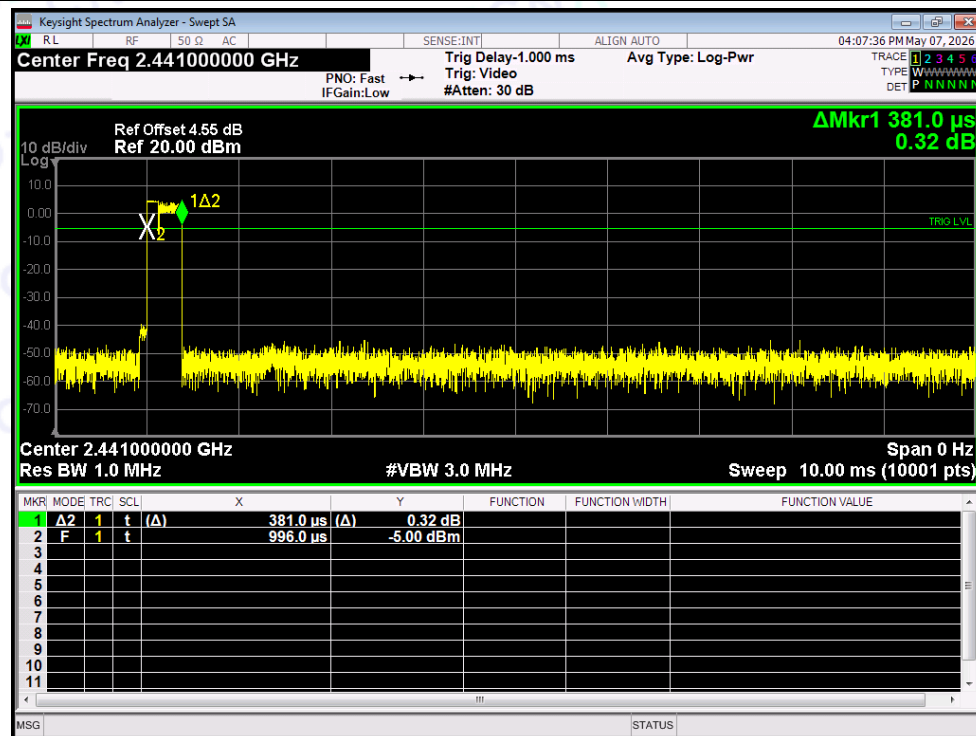
Dwell NVNT 2-DH3 2441MHz Ant1



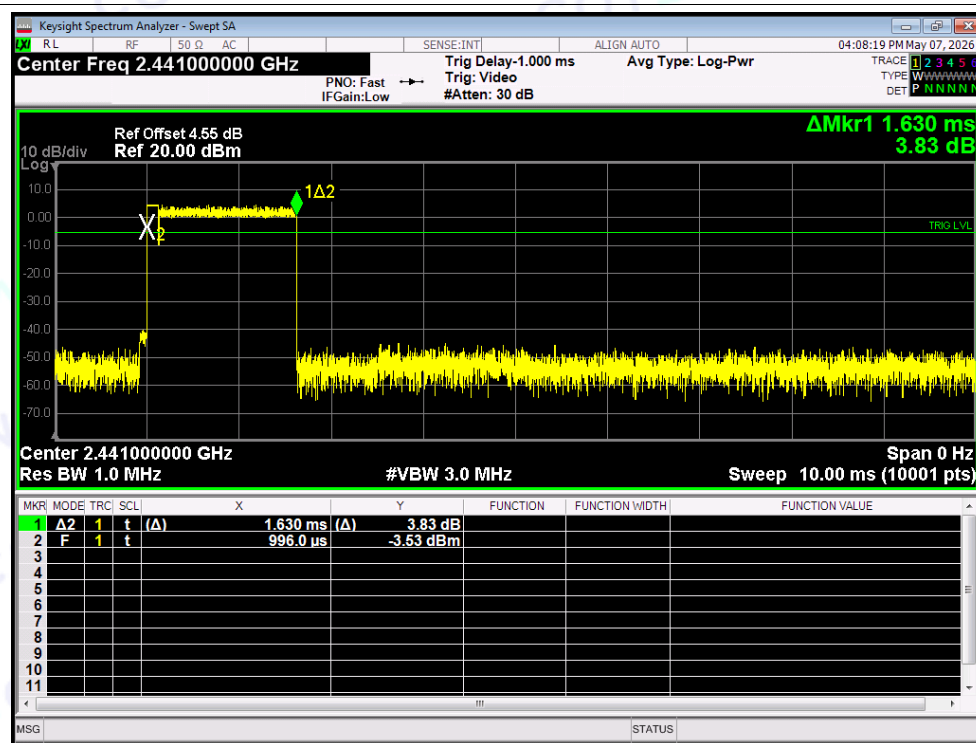
Dwell NVNT 2-DH5 2441MHz Ant1

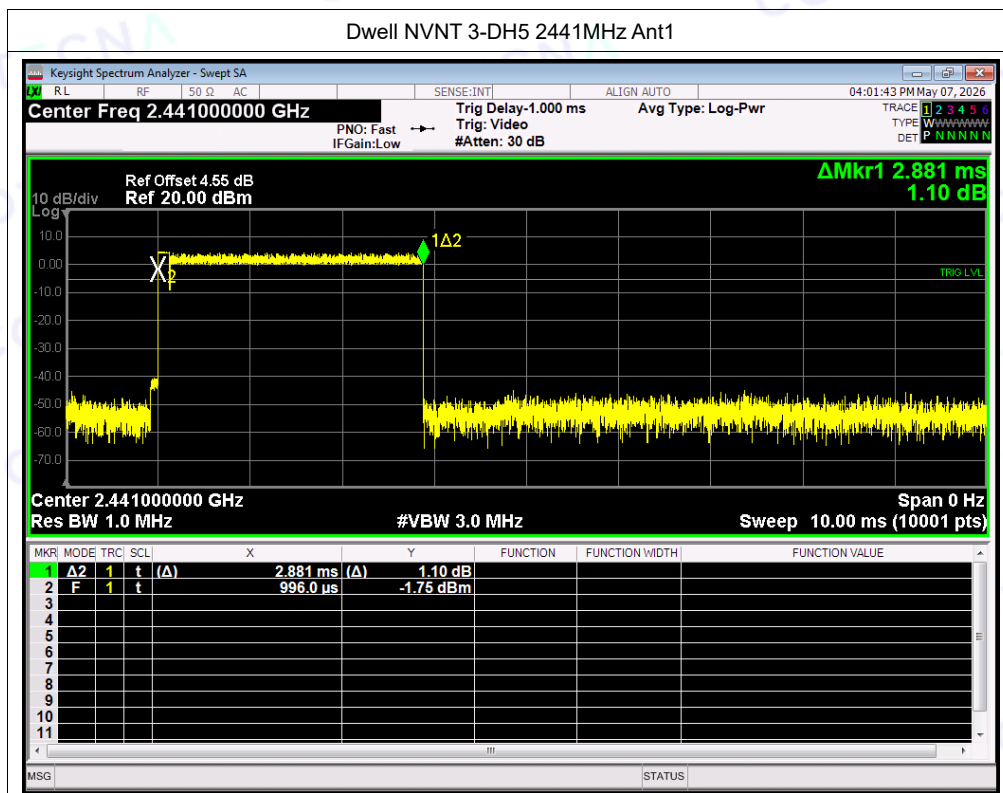


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



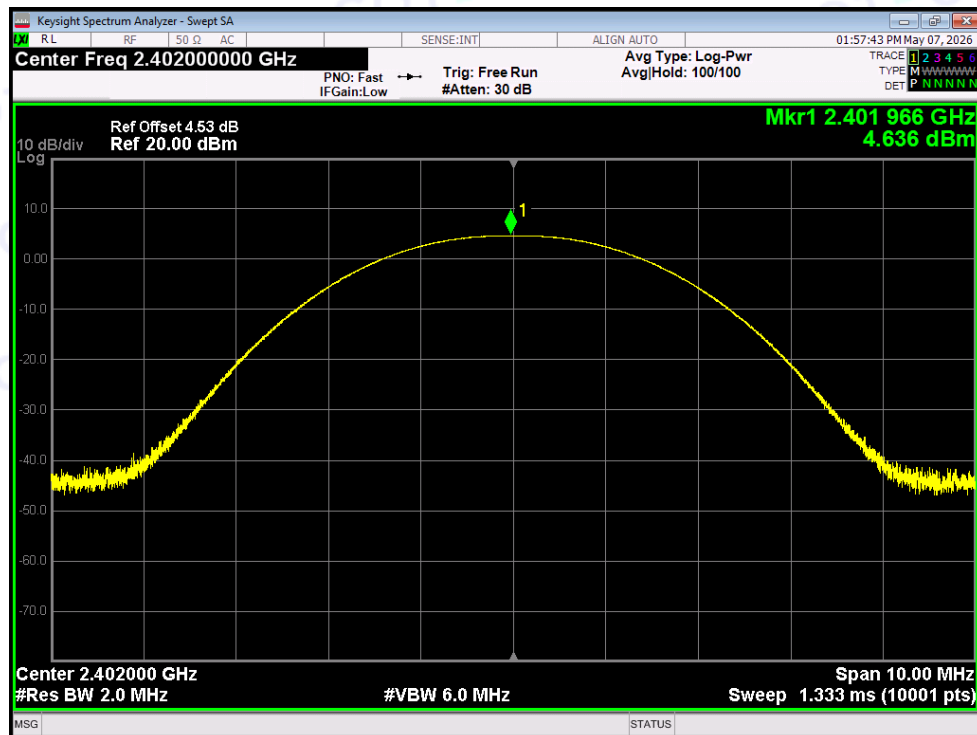


3. Maximum Conducted Output Power

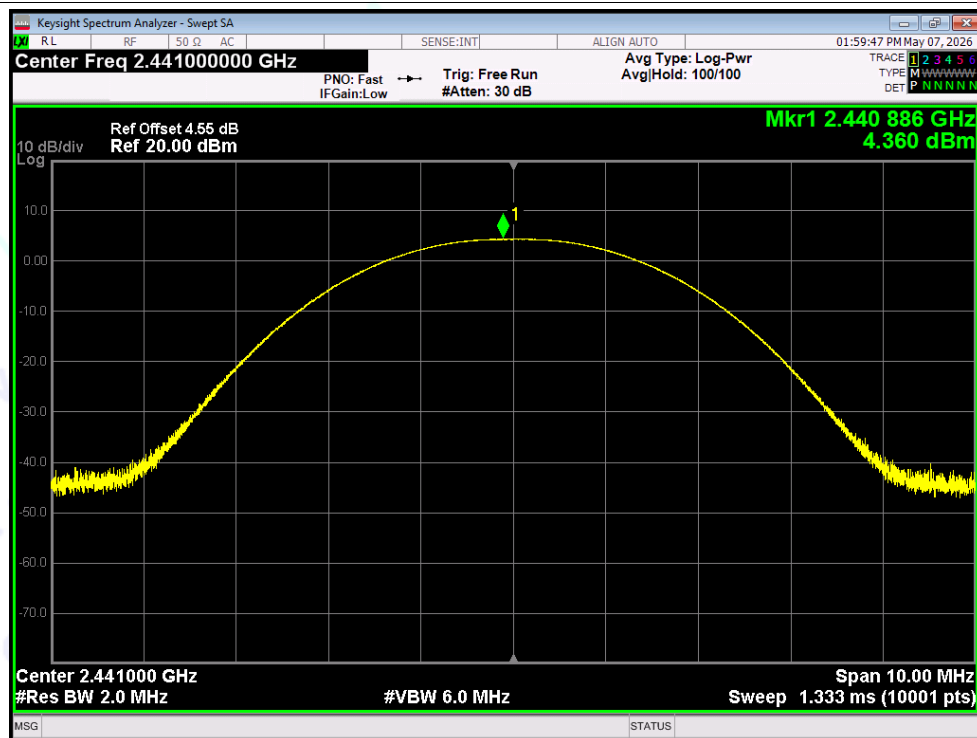
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	4.636	21	Pass
NVNT	1-DH5	2441	Ant1	4.36	21	Pass
NVNT	1-DH5	2480	Ant1	4.055	21	Pass
NVNT	2-DH5	2402	Ant1	4.778	21	Pass
NVNT	2-DH5	2441	Ant1	4.585	21	Pass
NVNT	2-DH5	2480	Ant1	4.23	21	Pass
NVNT	3-DH5	2402	Ant1	5.12	21	Pass
NVNT	3-DH5	2441	Ant1	4.806	21	Pass
NVNT	3-DH5	2480	Ant1	4.275	21	Pass

Test Graphs

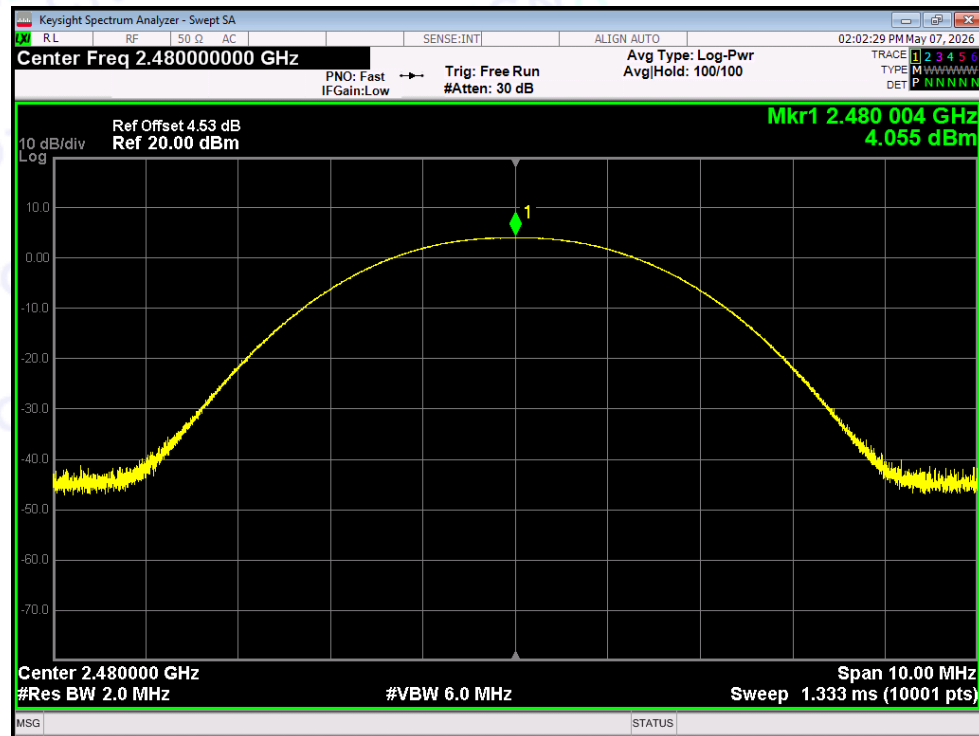
Power NVNT 1-DH5 2402MHz Ant1



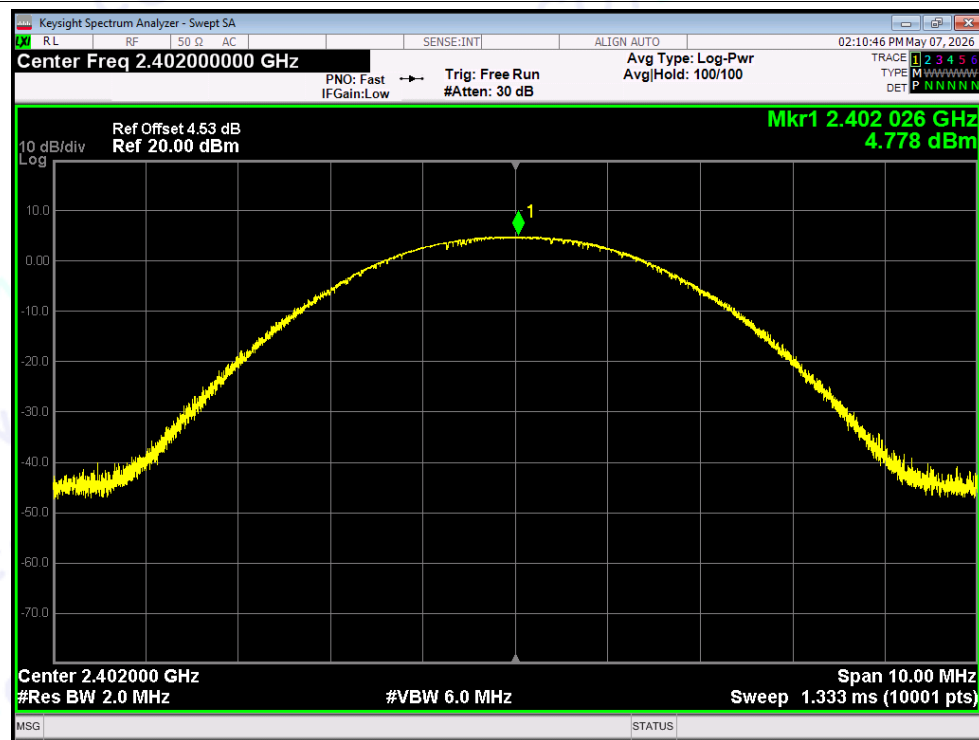
Power NVNT 1-DH5 2441MHz Ant1



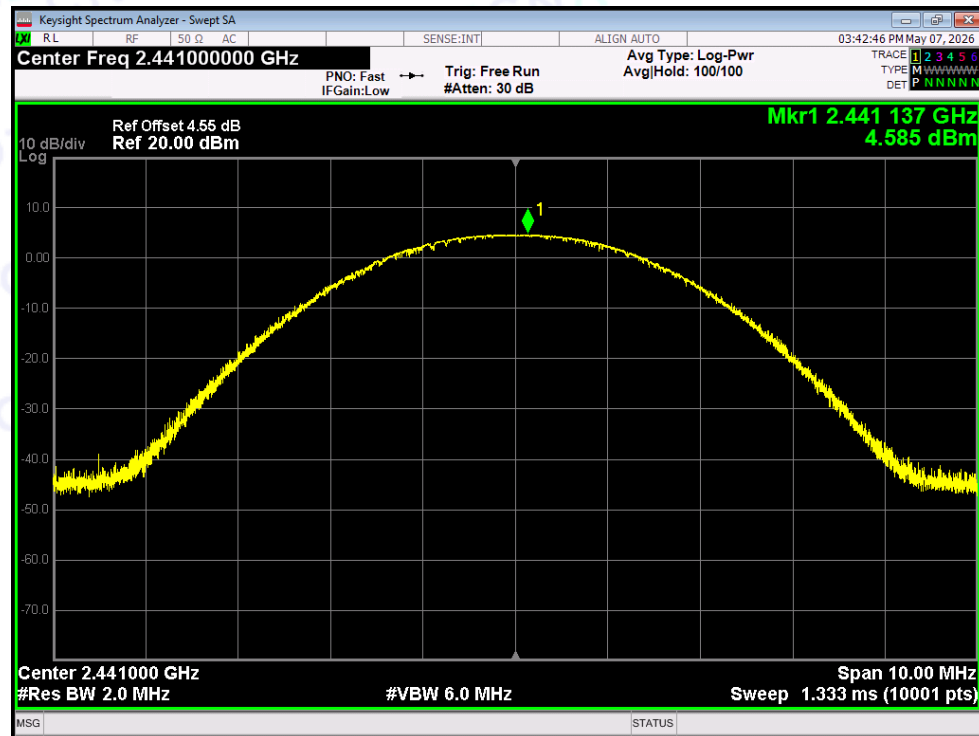
Power NVNT 1-DH5 2480MHz Ant1



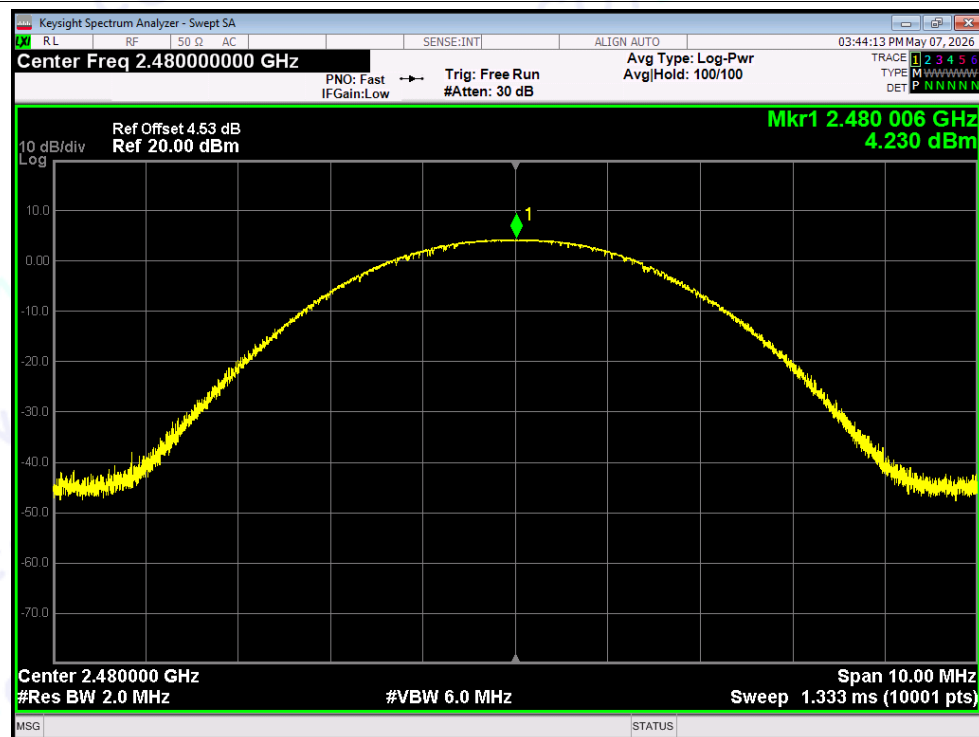
Power NVNT 2-DH5 2402MHz Ant1



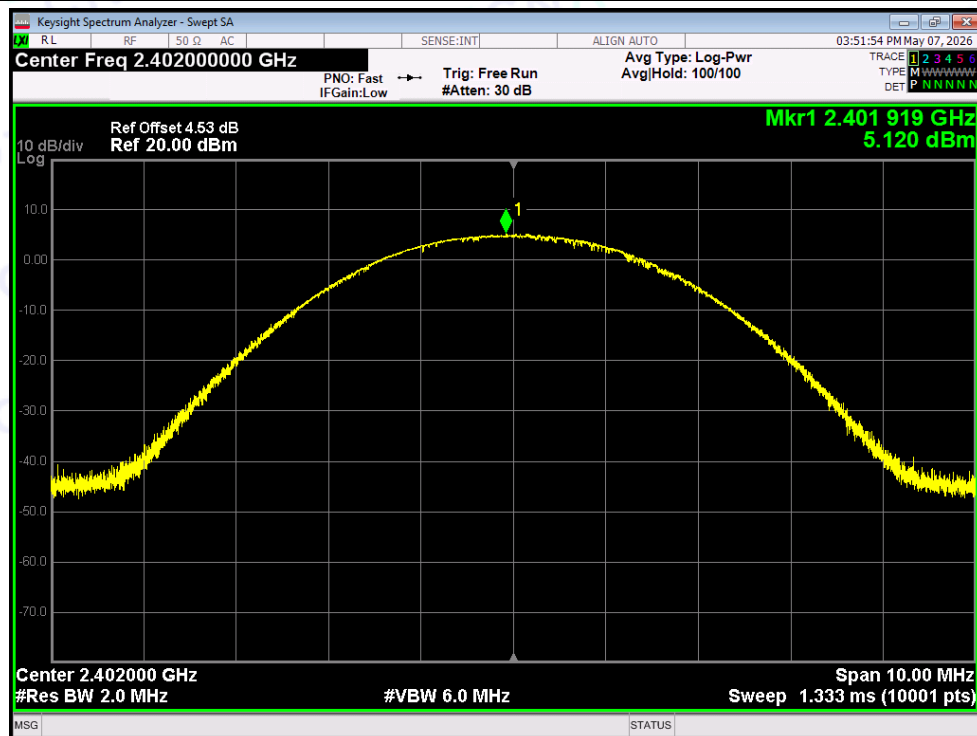
Power NVNT 2-DH5 2441MHz Ant1



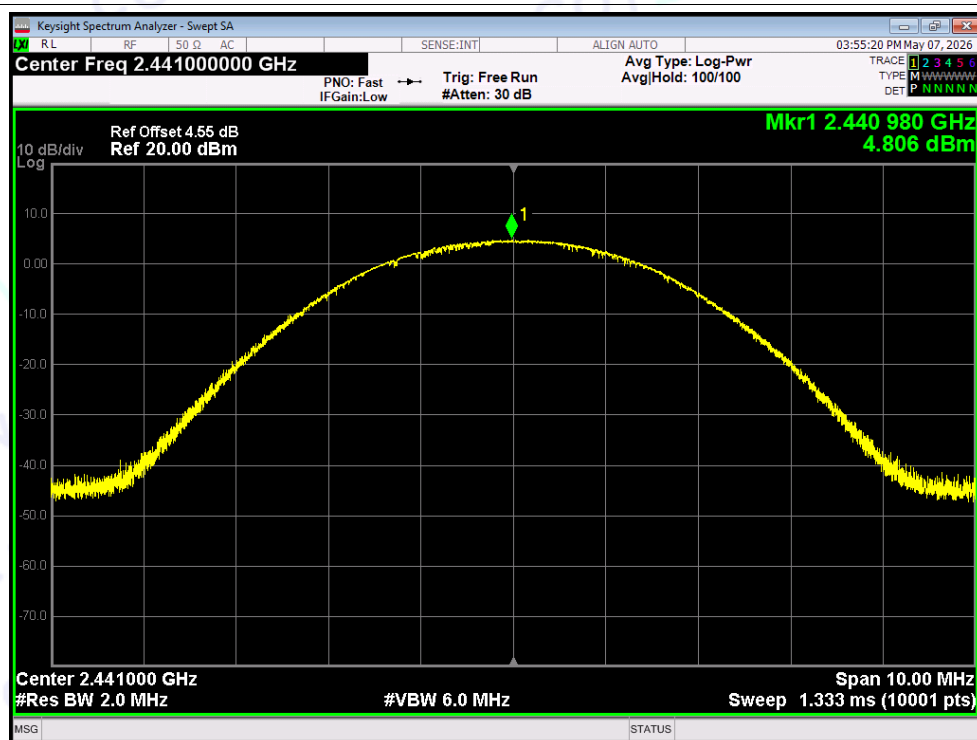
Power NVNT 2-DH5 2480MHz Ant1

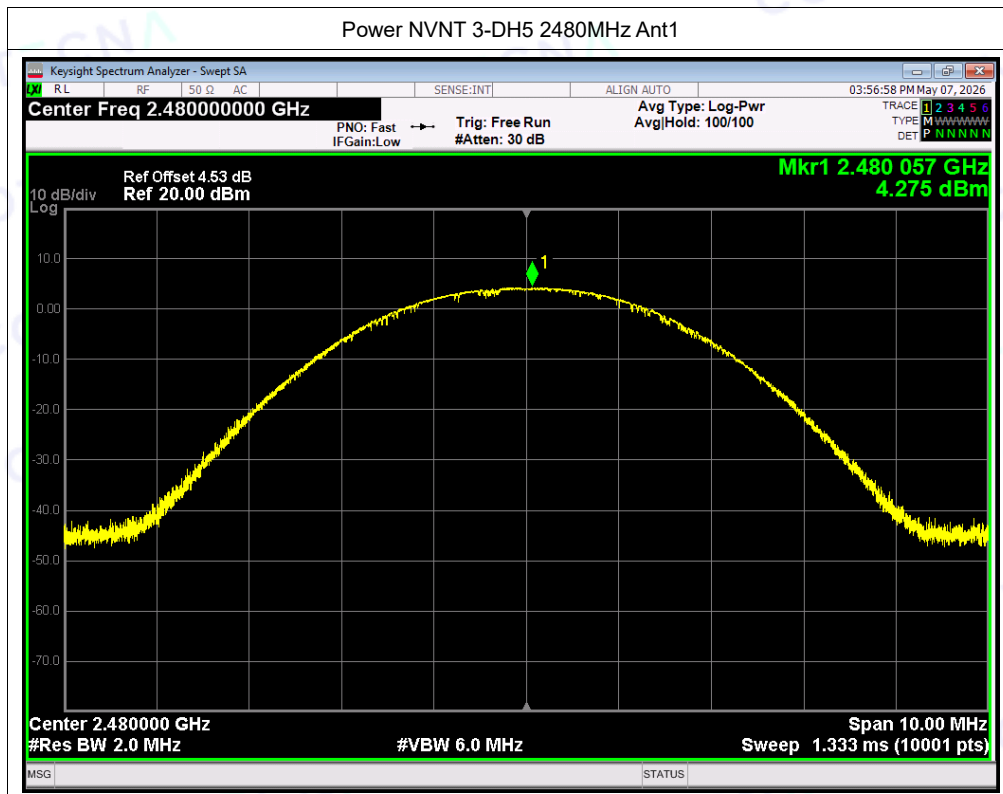


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



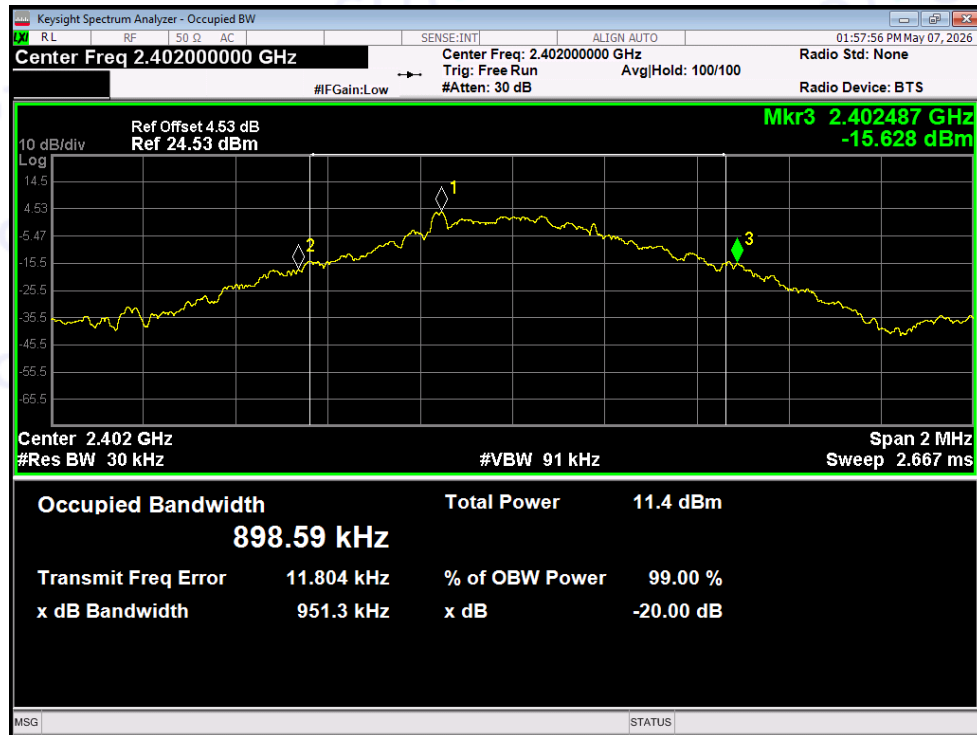


4. -20dB Bandwidth

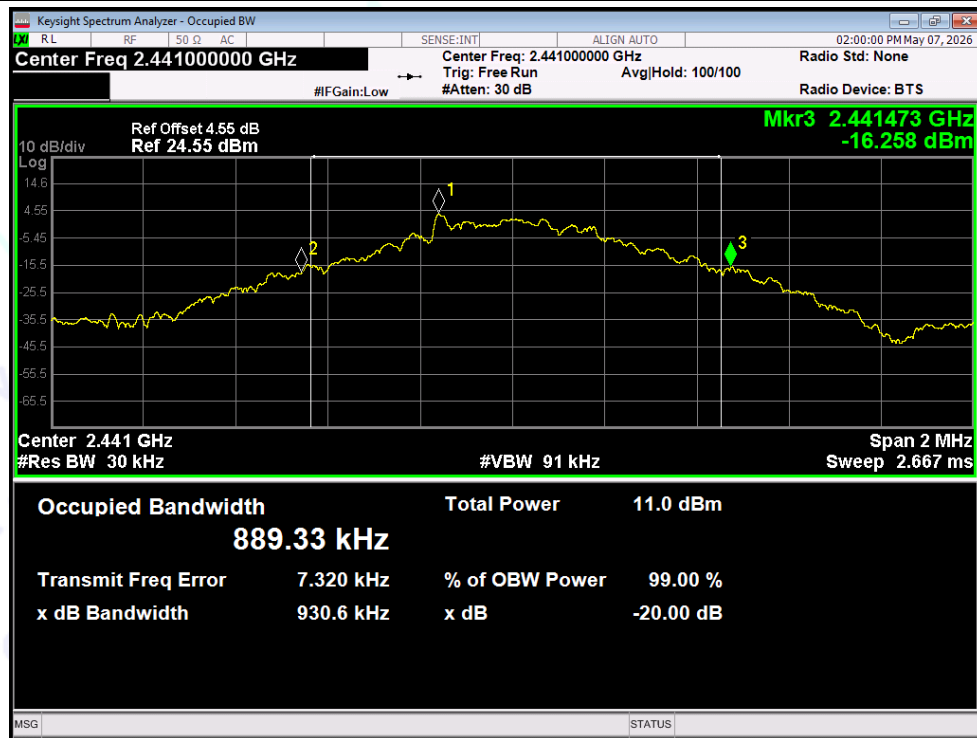
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.95	/	Pass
NVNT	1-DH5	2441	Ant1	0.93	/	Pass
NVNT	1-DH5	2480	Ant1	1.03	/	Pass
NVNT	2-DH5	2402	Ant1	1.28	/	Pass
NVNT	2-DH5	2441	Ant1	1.34	/	Pass
NVNT	2-DH5	2480	Ant1	1.22	/	Pass
NVNT	3-DH5	2402	Ant1	1.28	/	Pass
NVNT	3-DH5	2441	Ant1	1.29	/	Pass
NVNT	3-DH5	2480	Ant1	1.18	/	Pass

Test Graphs

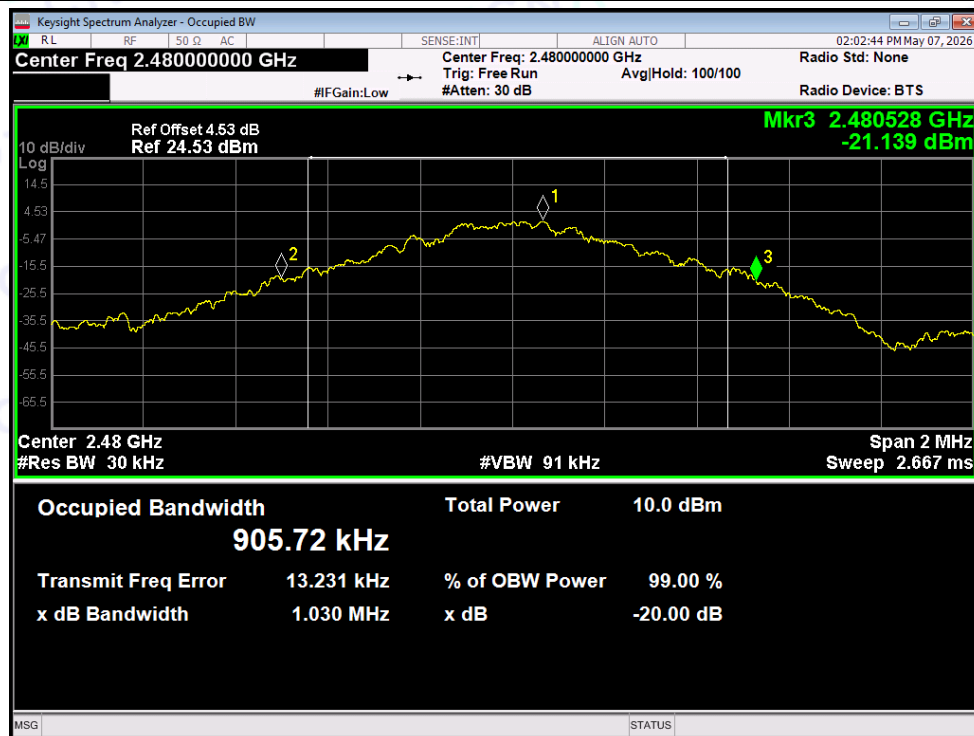
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



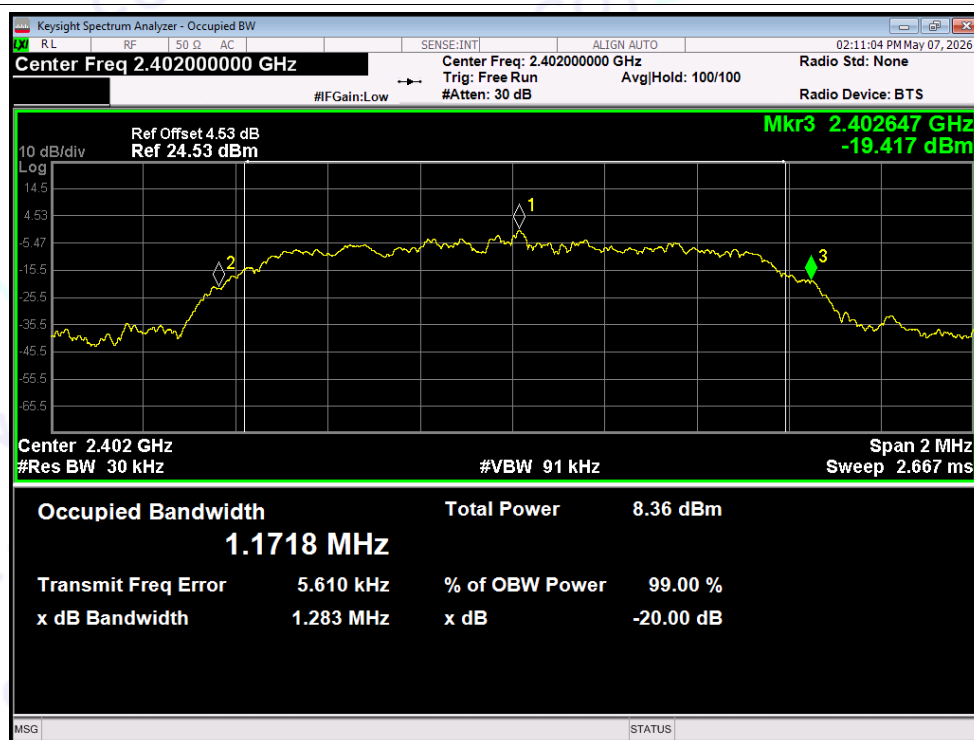
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



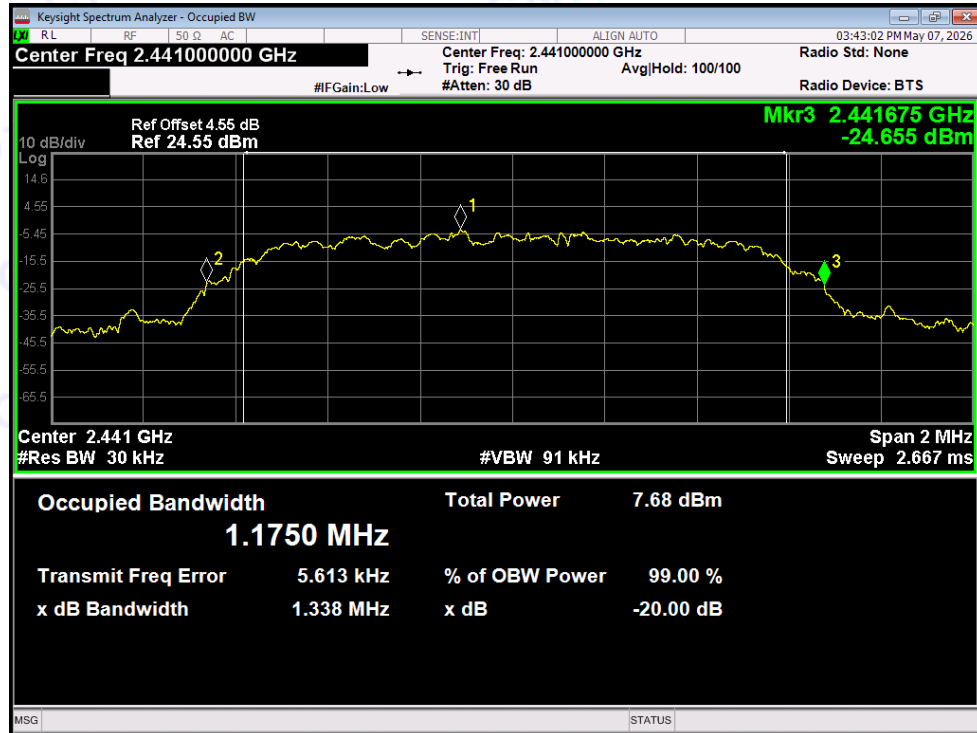
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



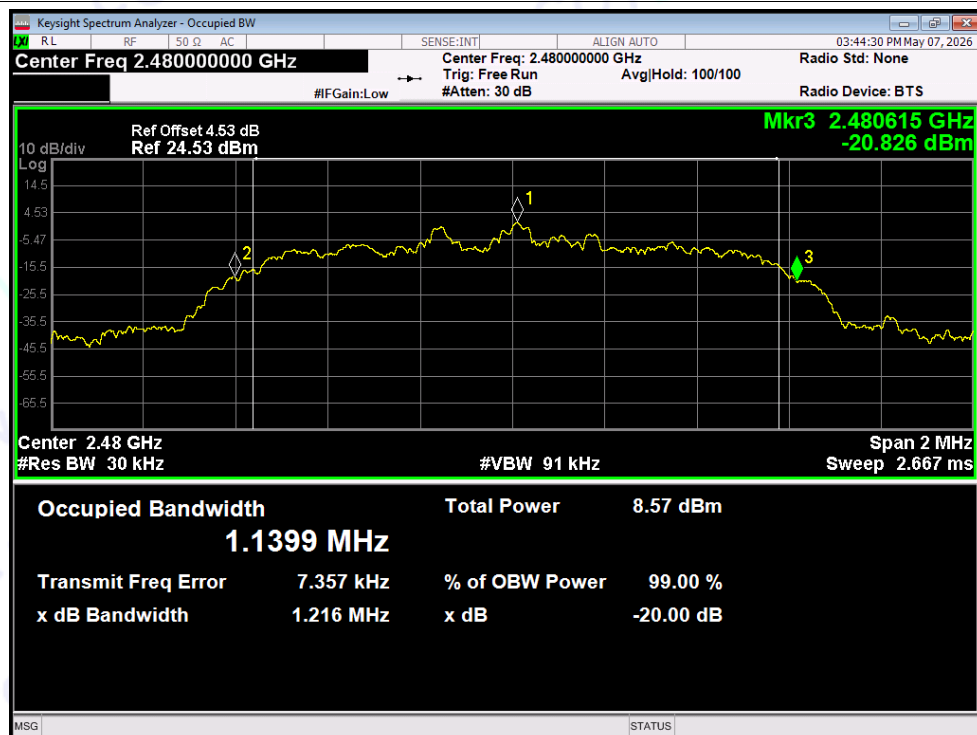
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



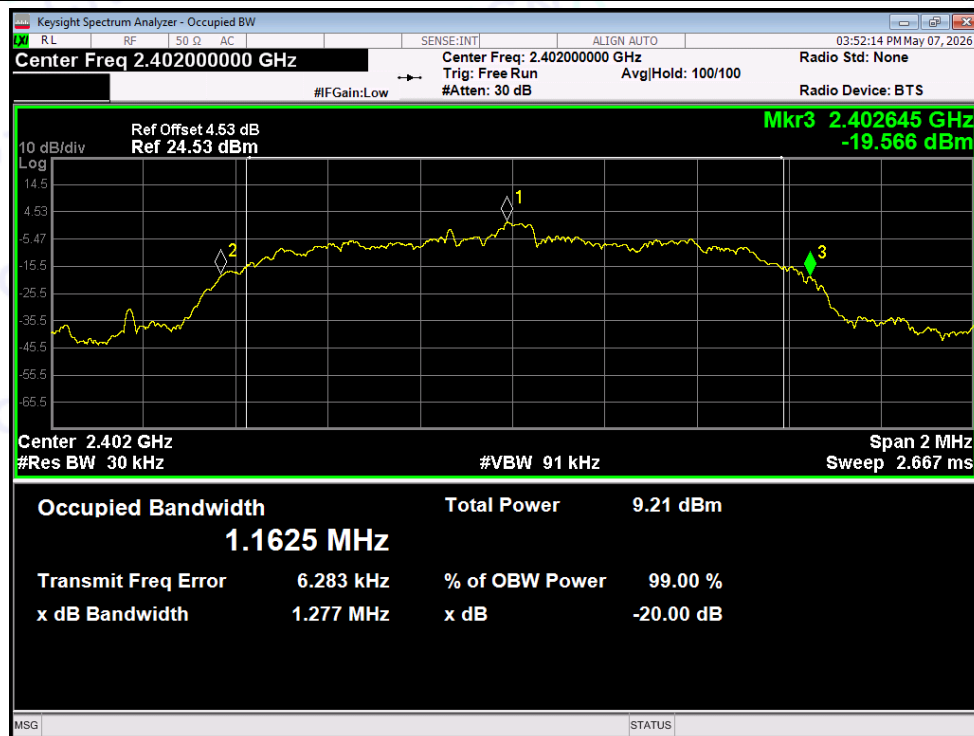
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



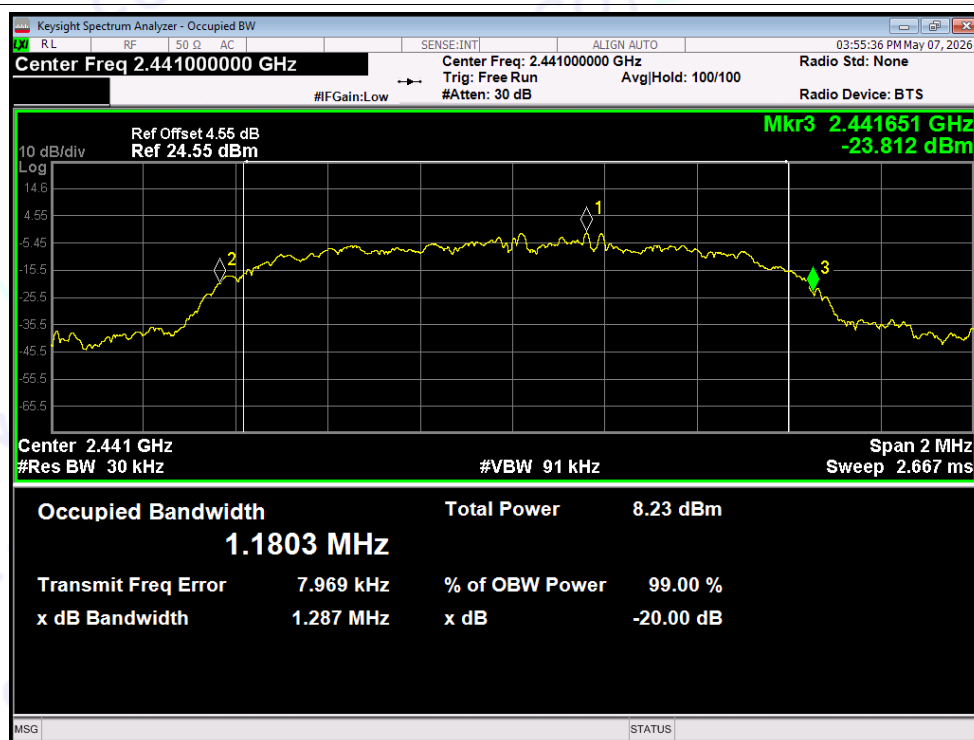
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

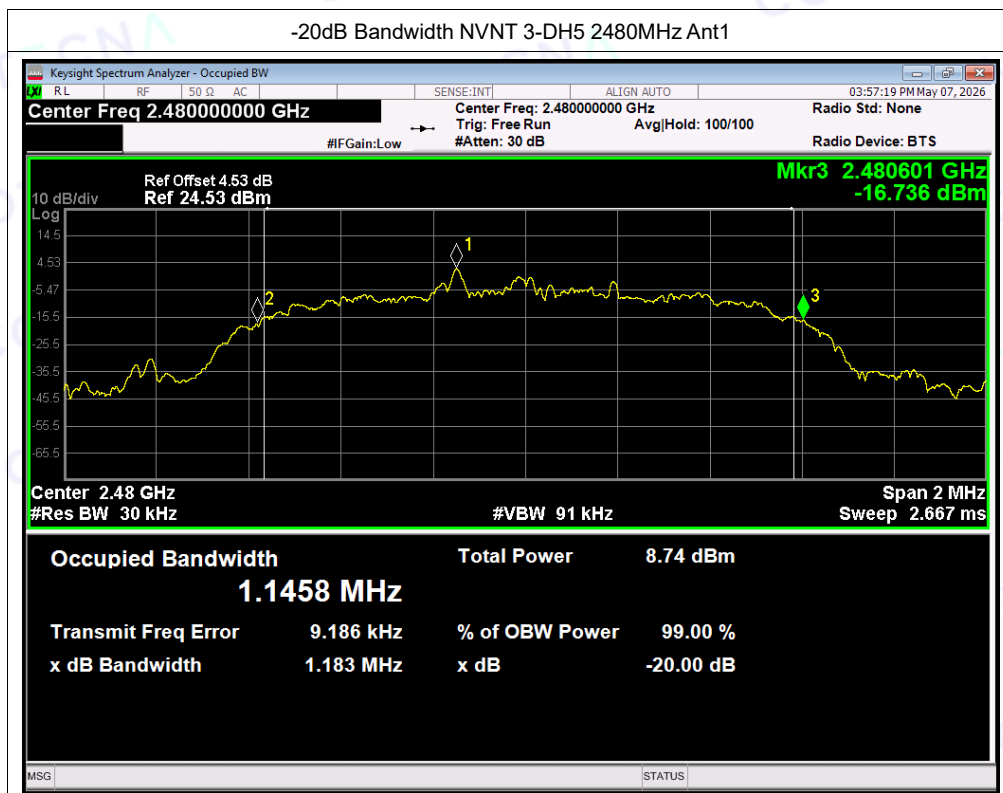


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



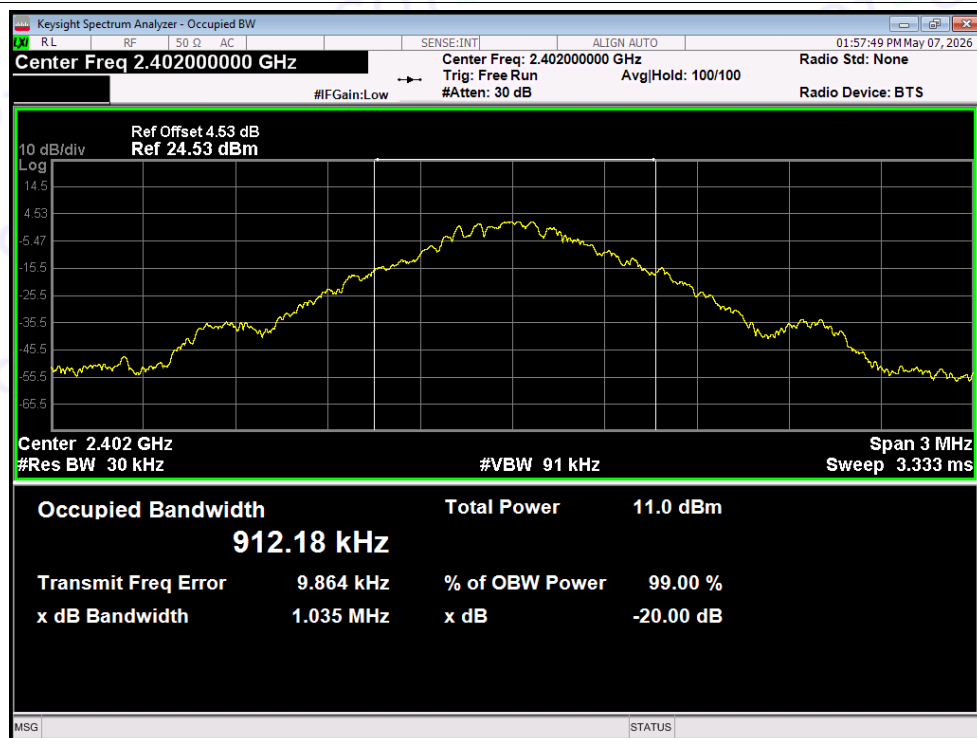


5. Occupied Channel Bandwidth

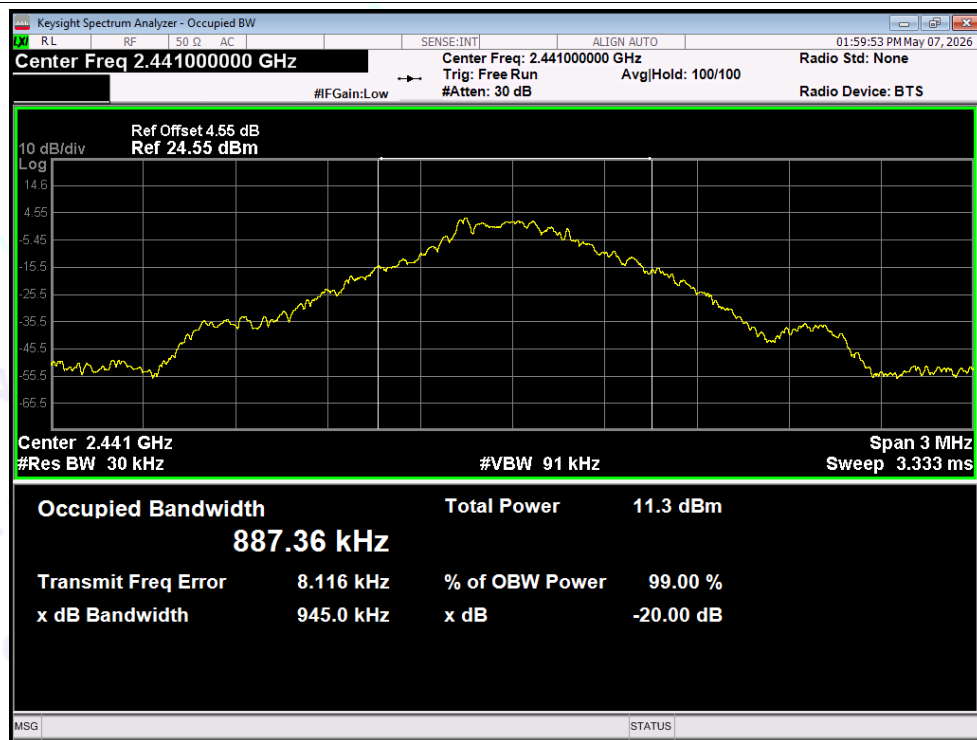
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.912
NVNT	1-DH5	2441	Ant1	0.887
NVNT	1-DH5	2480	Ant1	0.89
NVNT	2-DH5	2402	Ant1	1.19
NVNT	2-DH5	2441	Ant1	1.157
NVNT	2-DH5	2480	Ant1	1.16
NVNT	3-DH5	2402	Ant1	1.148
NVNT	3-DH5	2441	Ant1	1.152
NVNT	3-DH5	2480	Ant1	1.147

Test Graphs

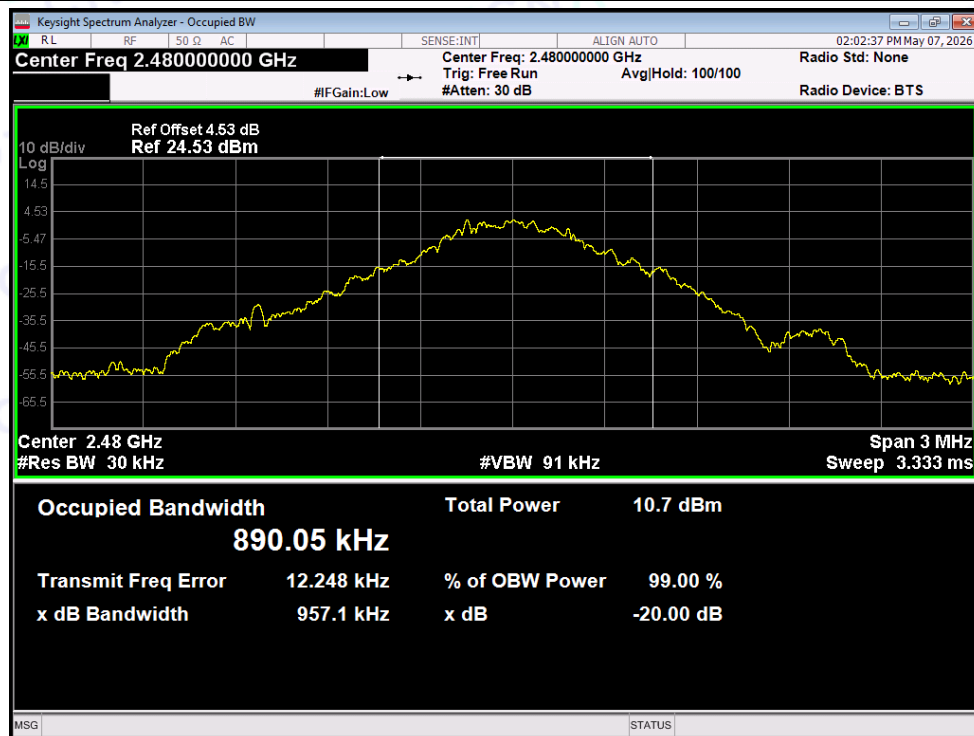
OBW NVNT 1-DH5 2402MHz Ant1



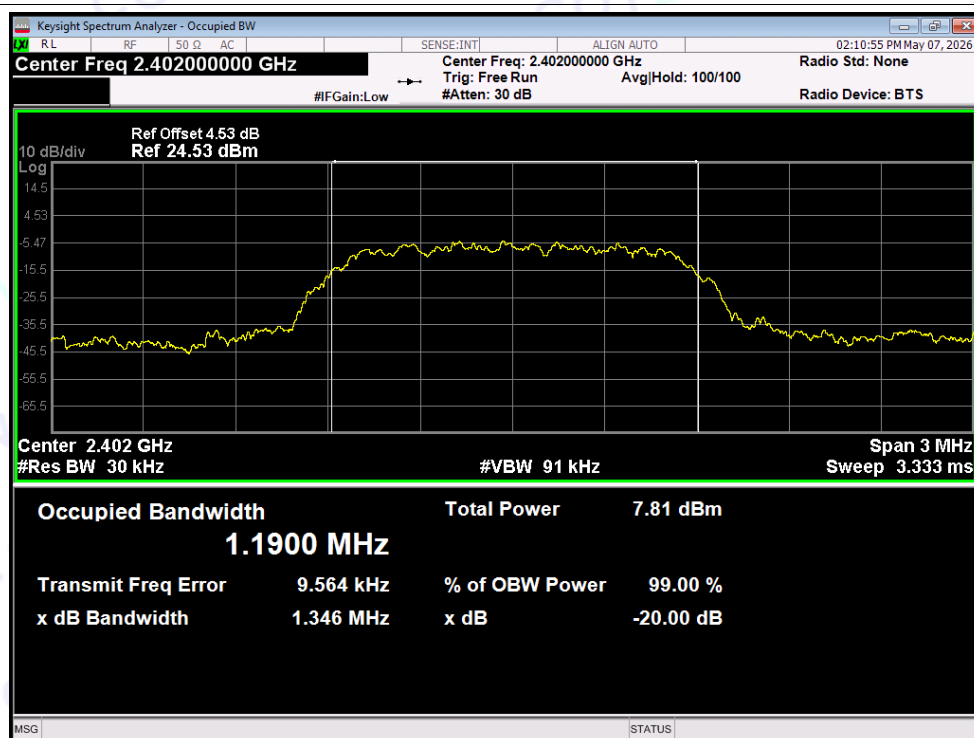
OBW NVNT 1-DH5 2441MHz Ant1



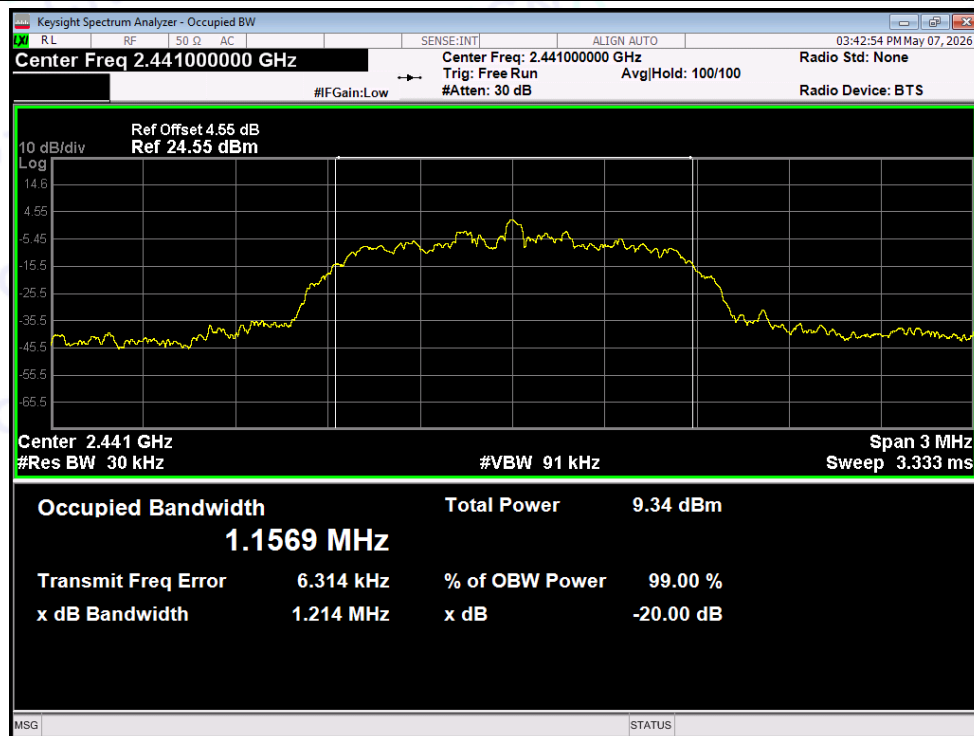
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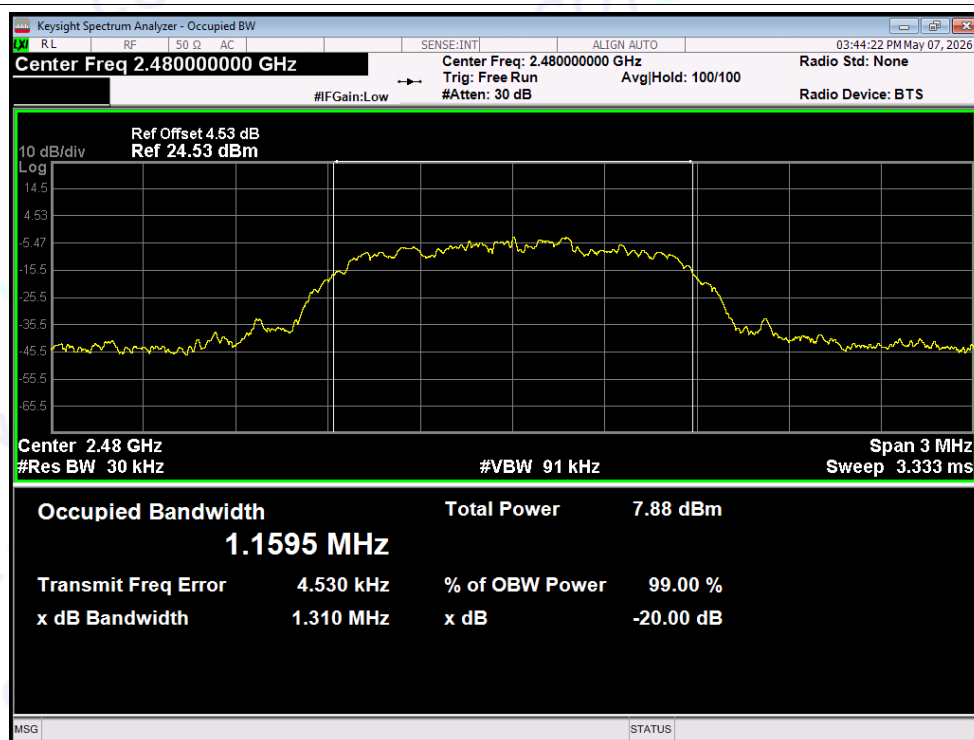
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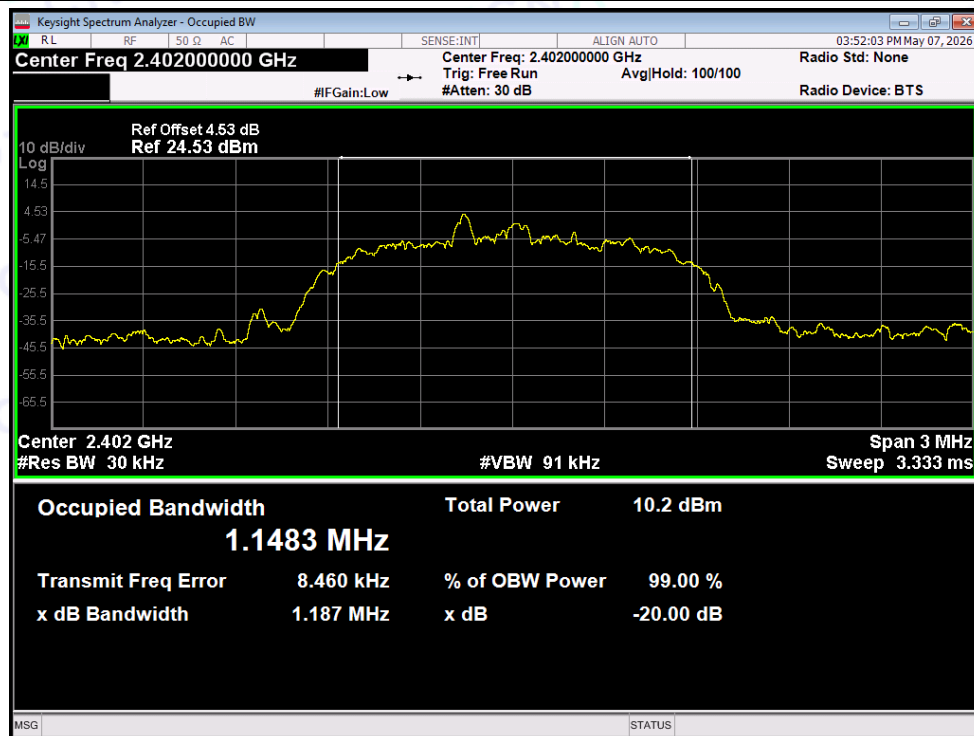
OBW NVNT 2-DH5 2441MHz Ant1



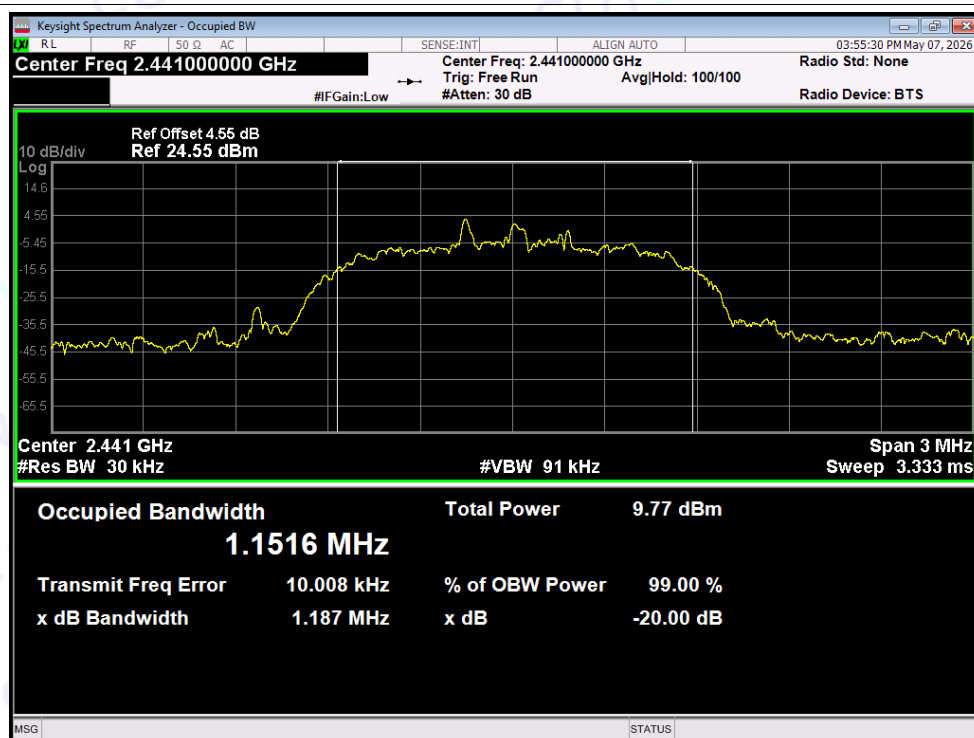
OBW NVNT 2-DH5 2480MHz Ant1

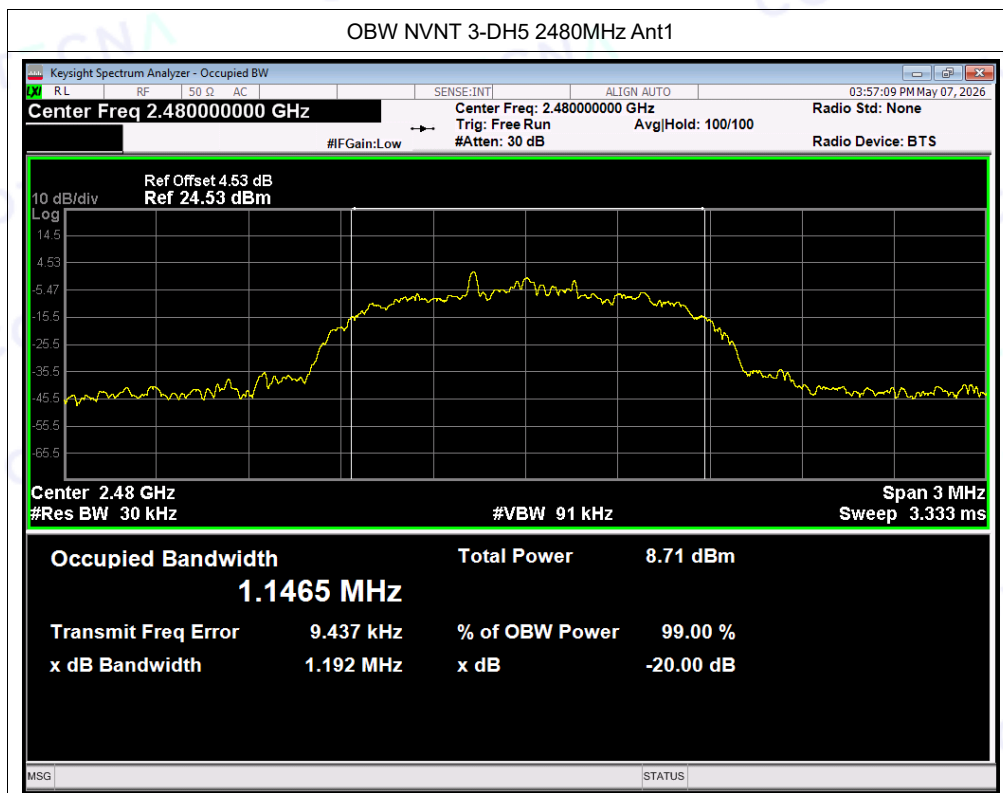


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



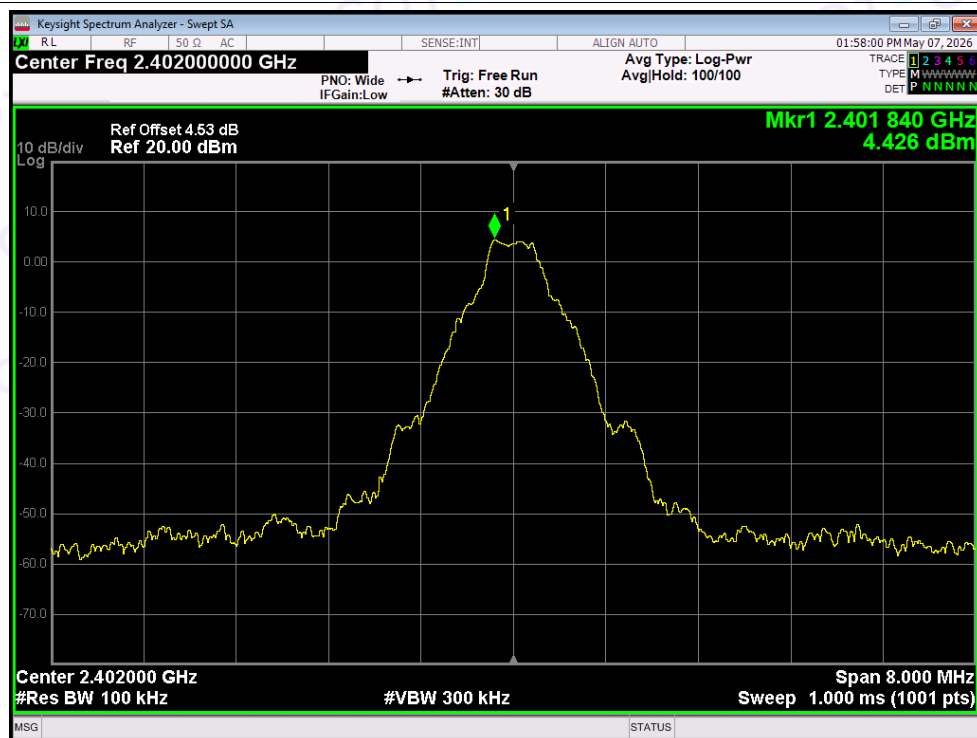


6. Band Edge

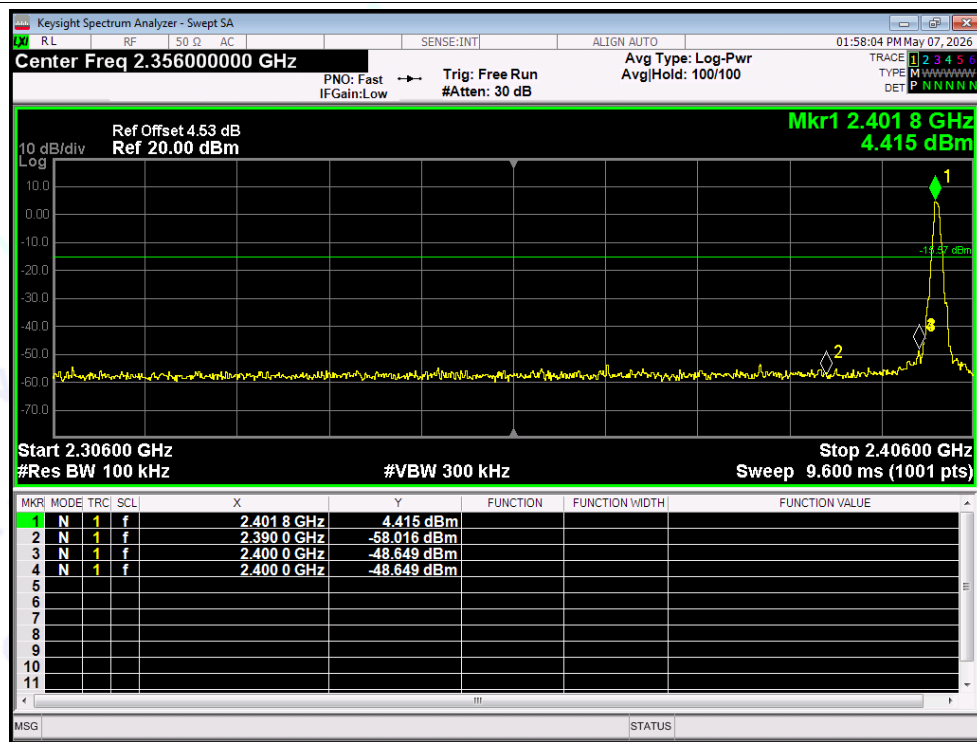
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.08	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.84	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.62	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.22	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.09	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.47	-20	Pass

Test Graphs

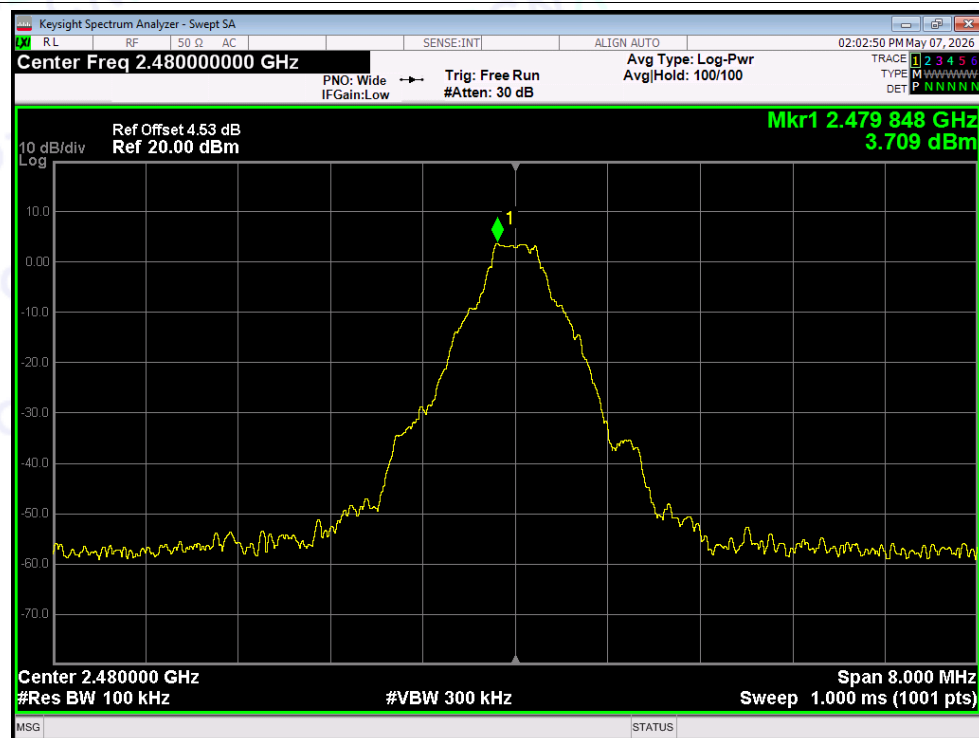
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



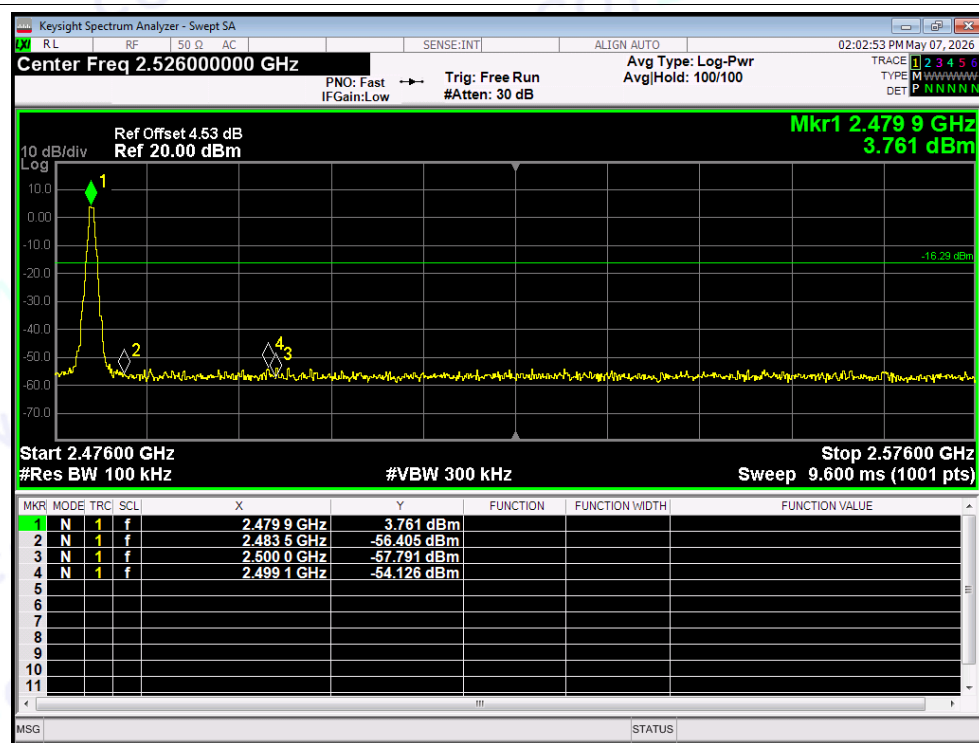
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



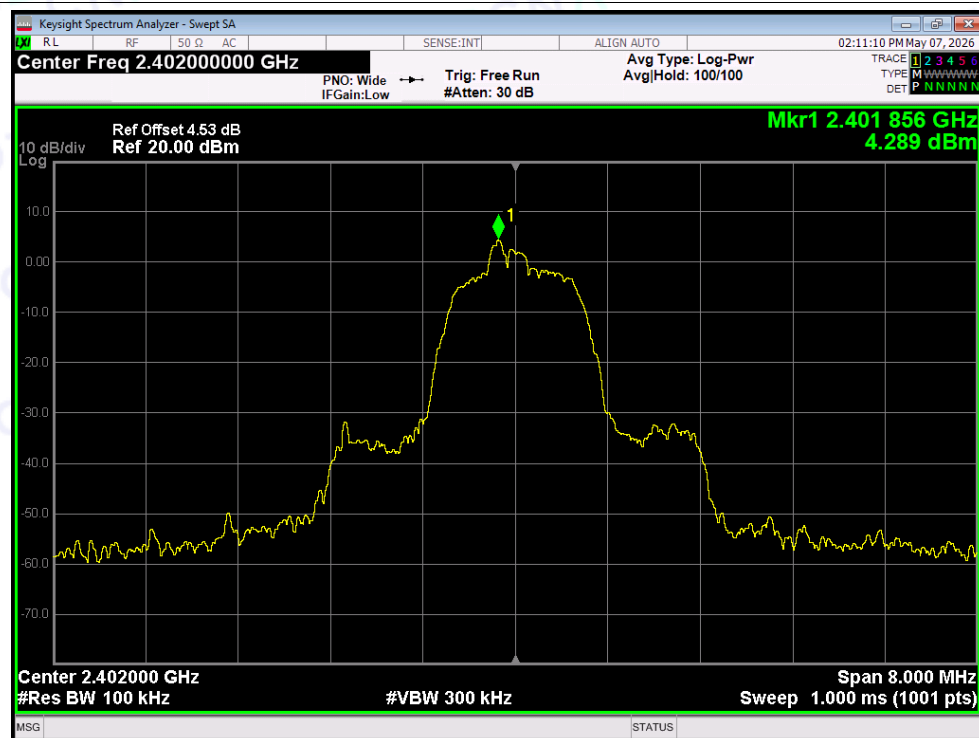
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



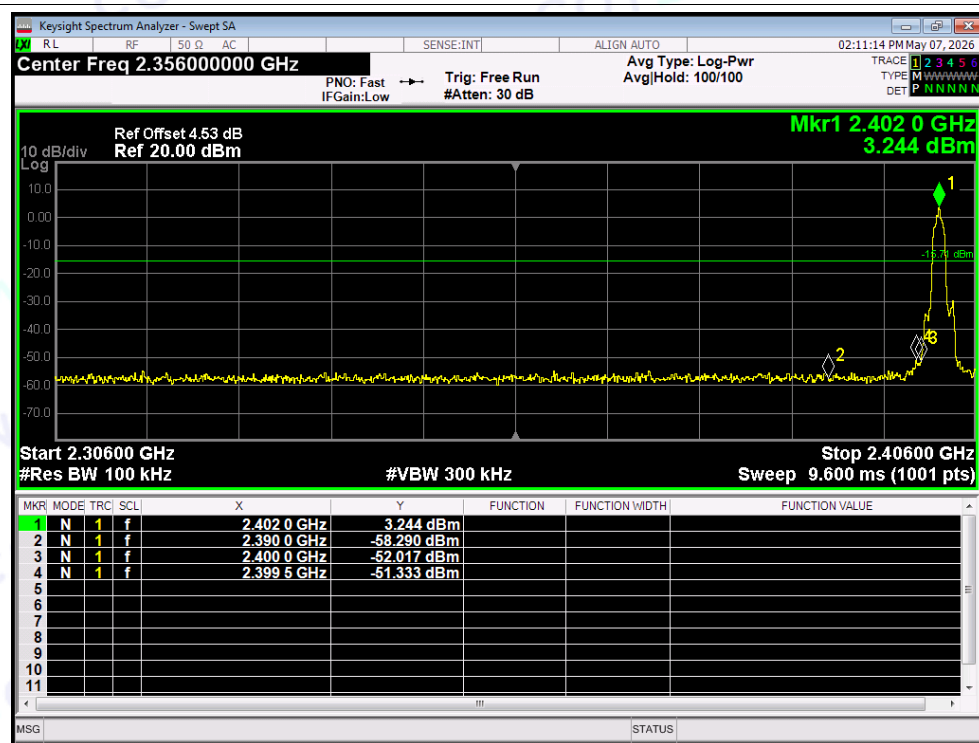
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



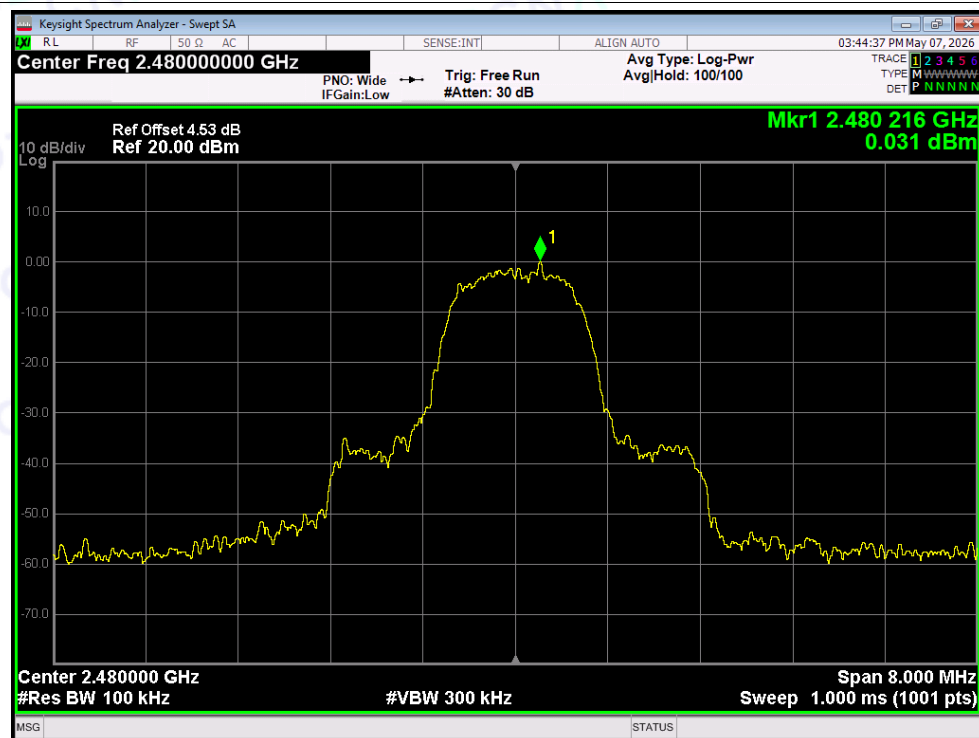
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



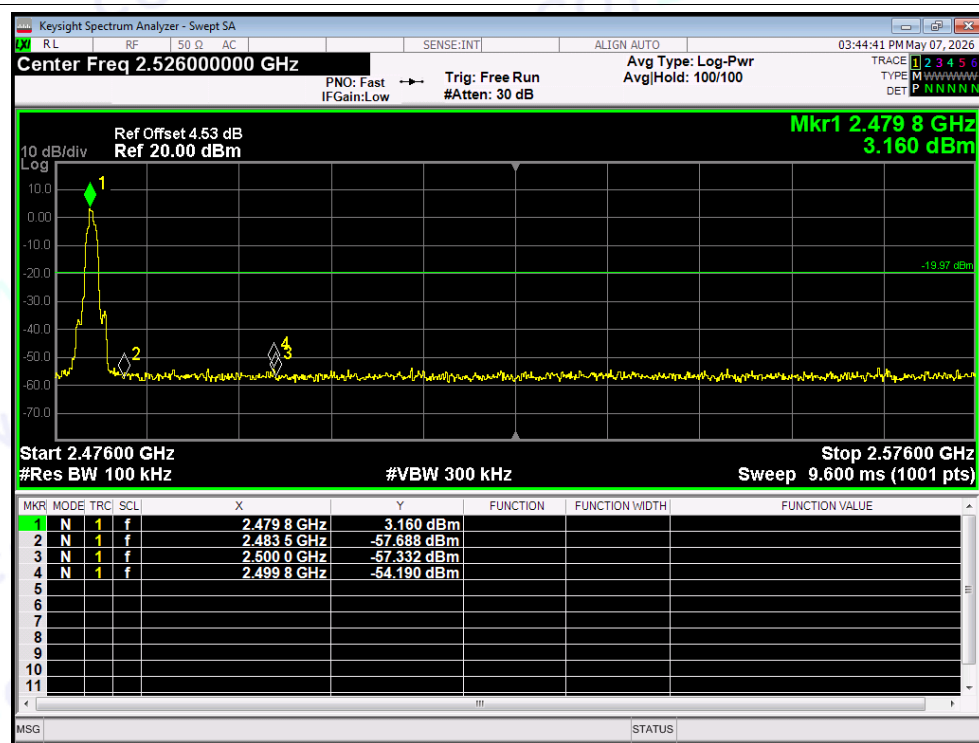
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



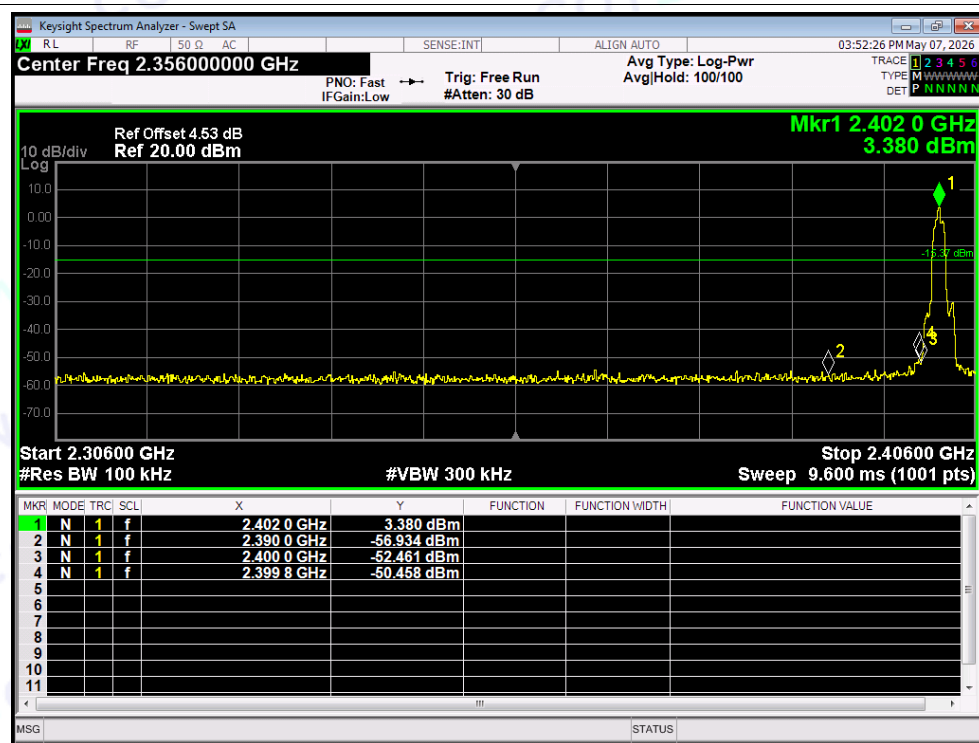
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



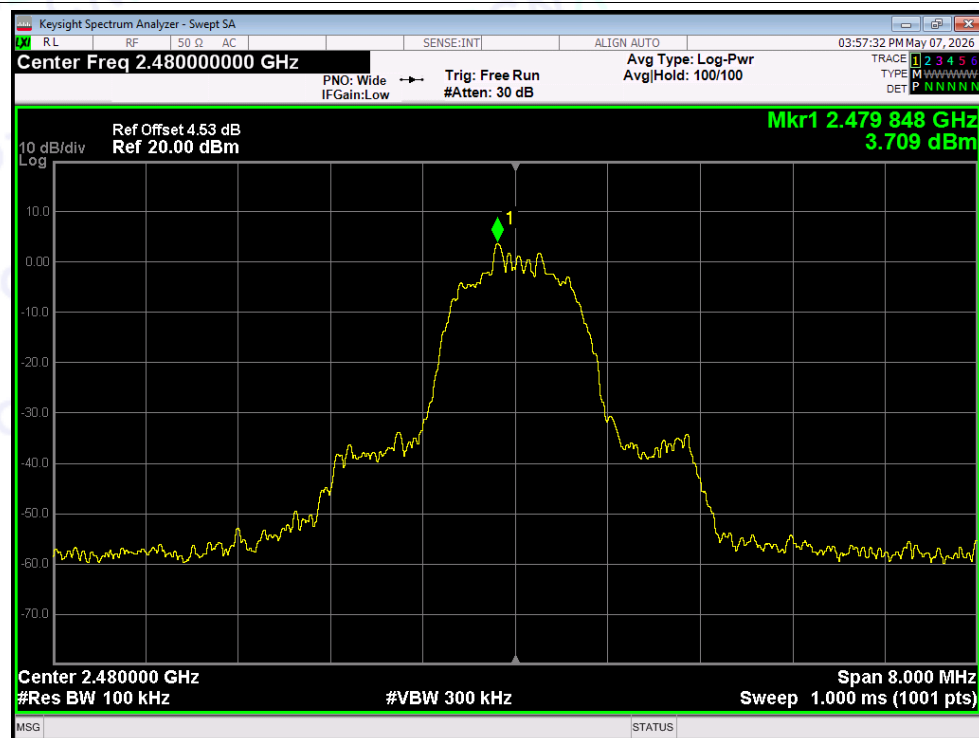
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



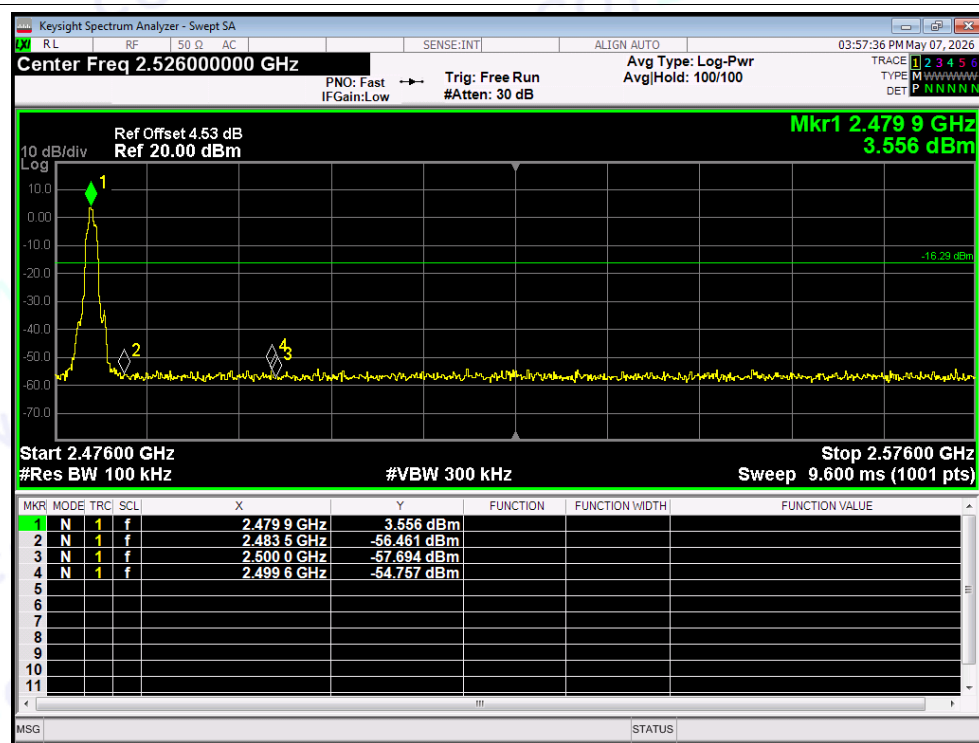
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



7. Band Edge(Hopping)

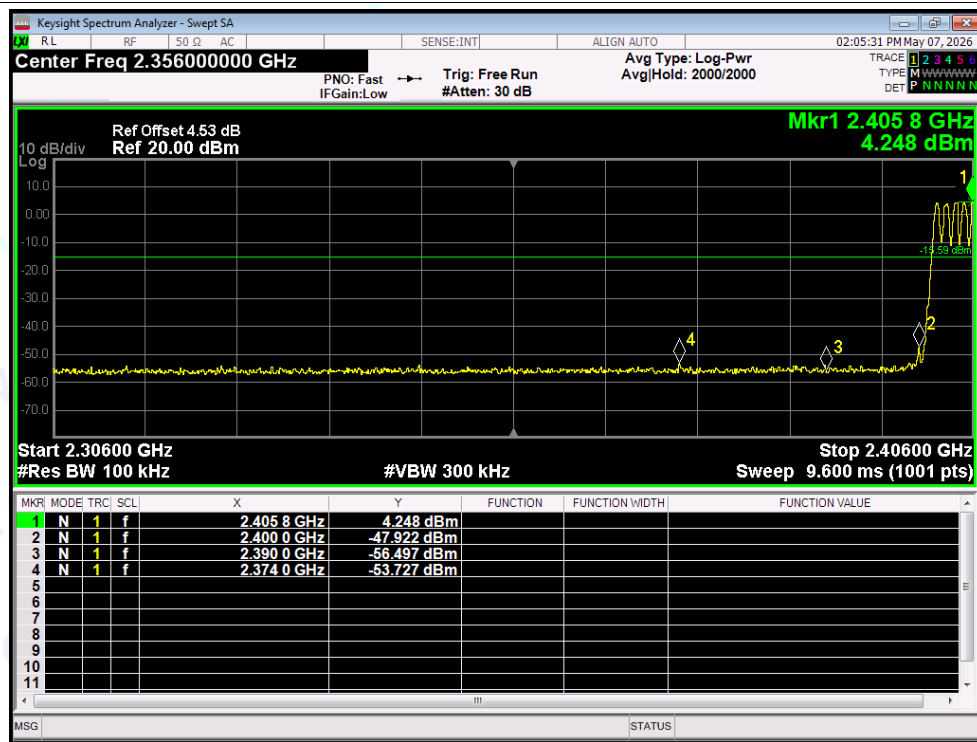
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.14	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.28	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-57.94	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.35	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-58.05	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.43	-20	Pass

Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



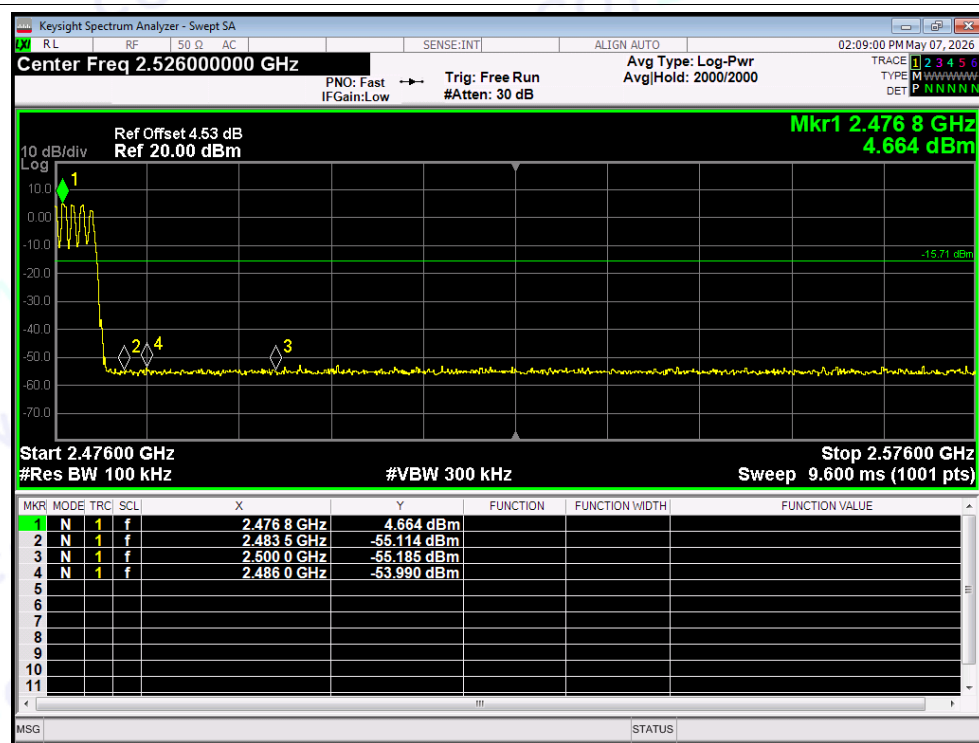
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



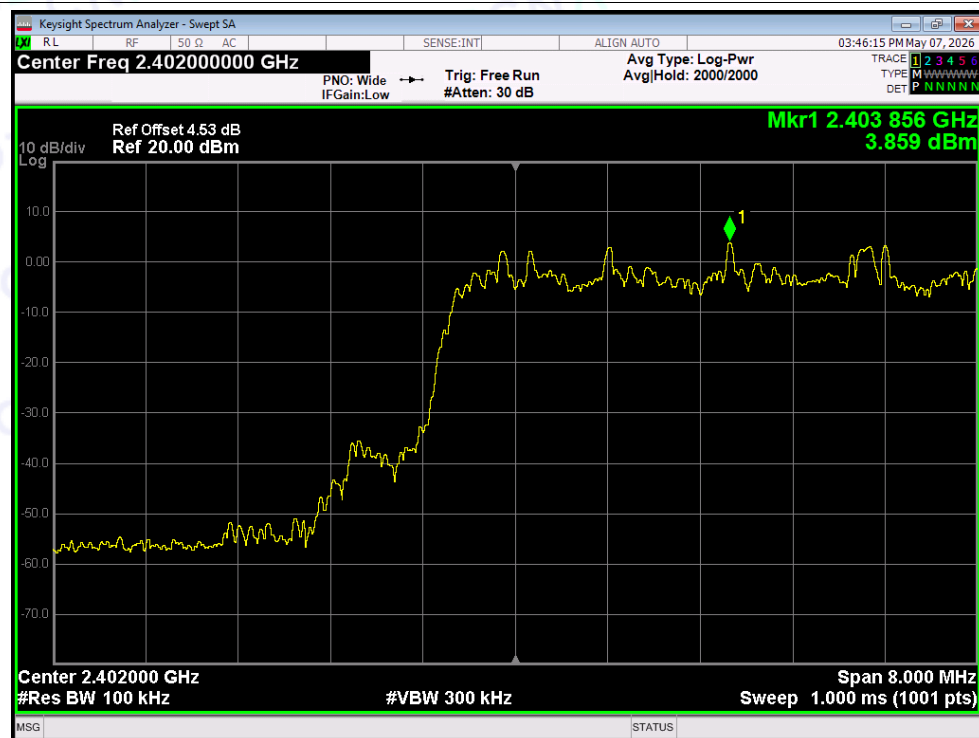
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



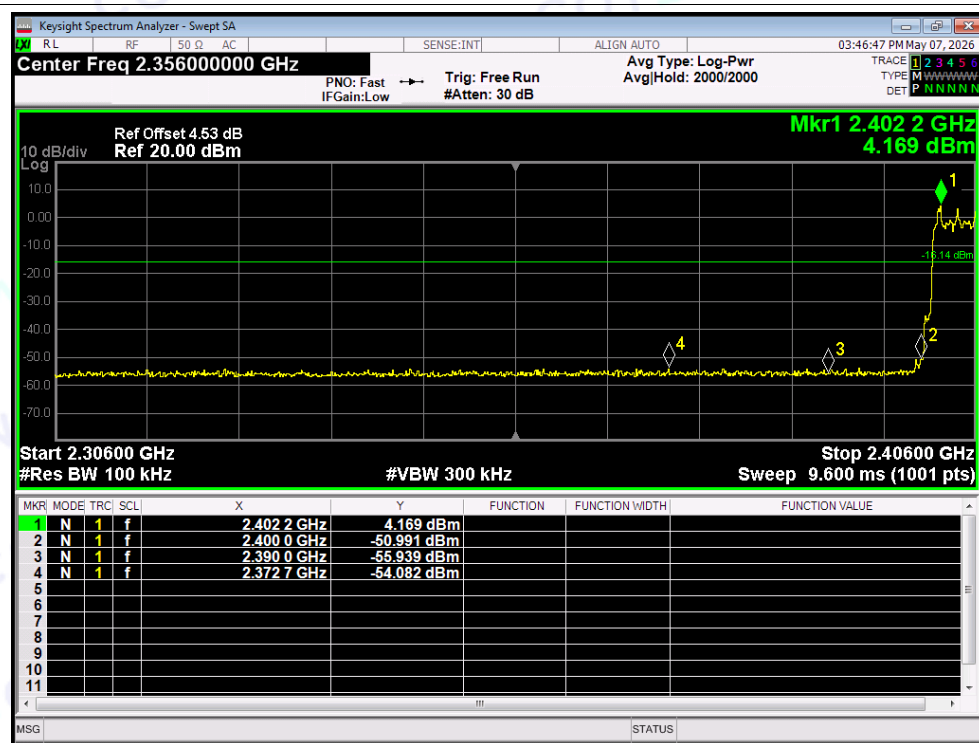
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



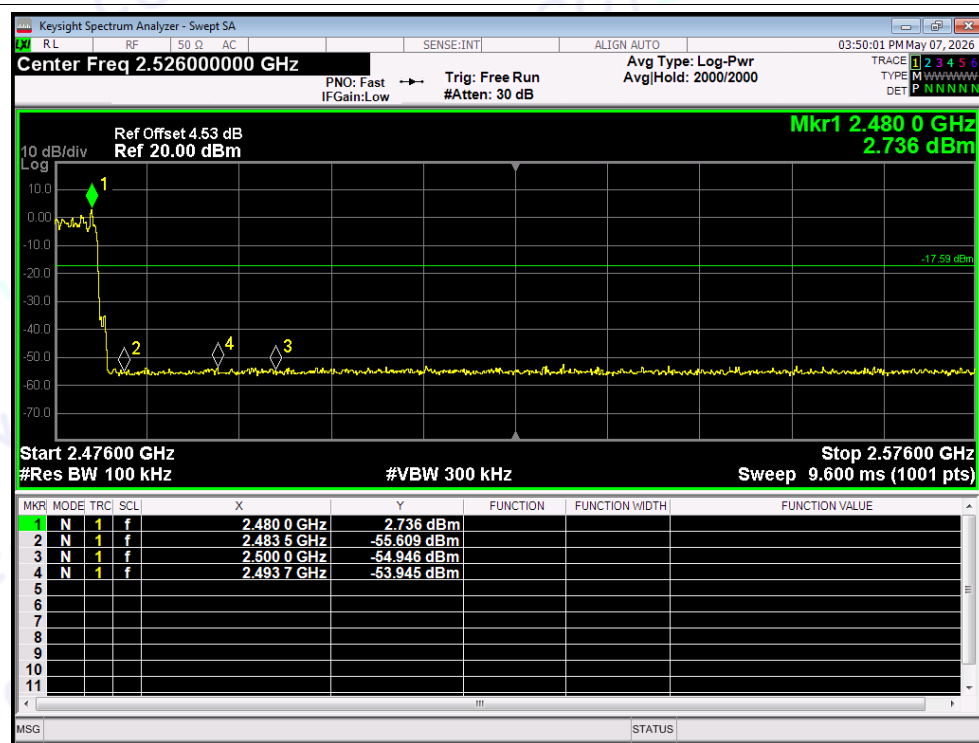
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



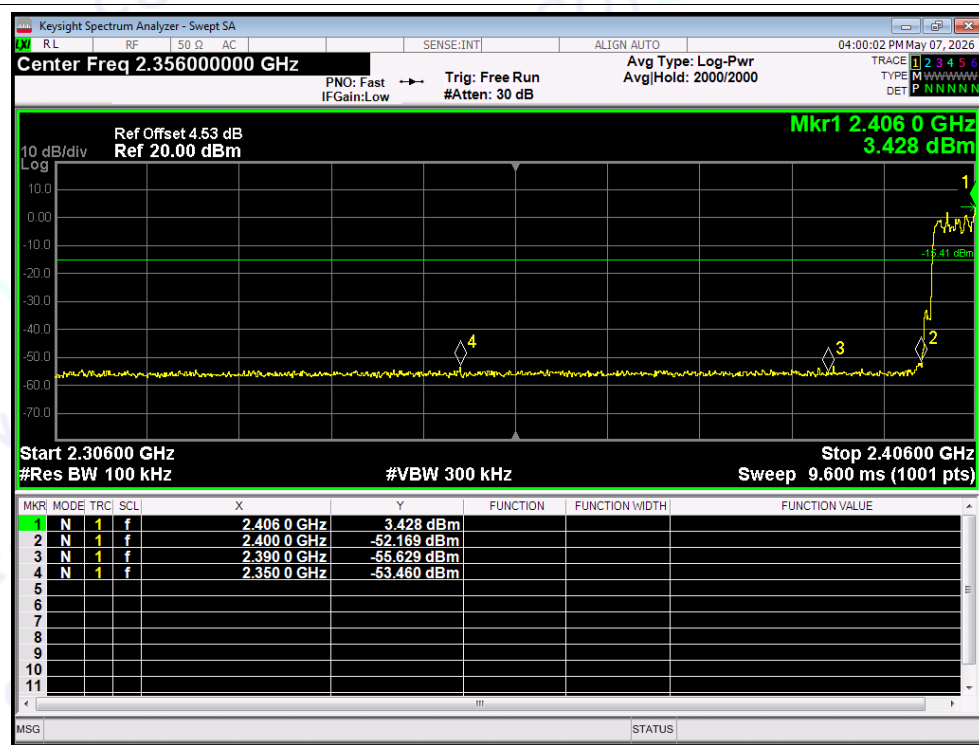
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



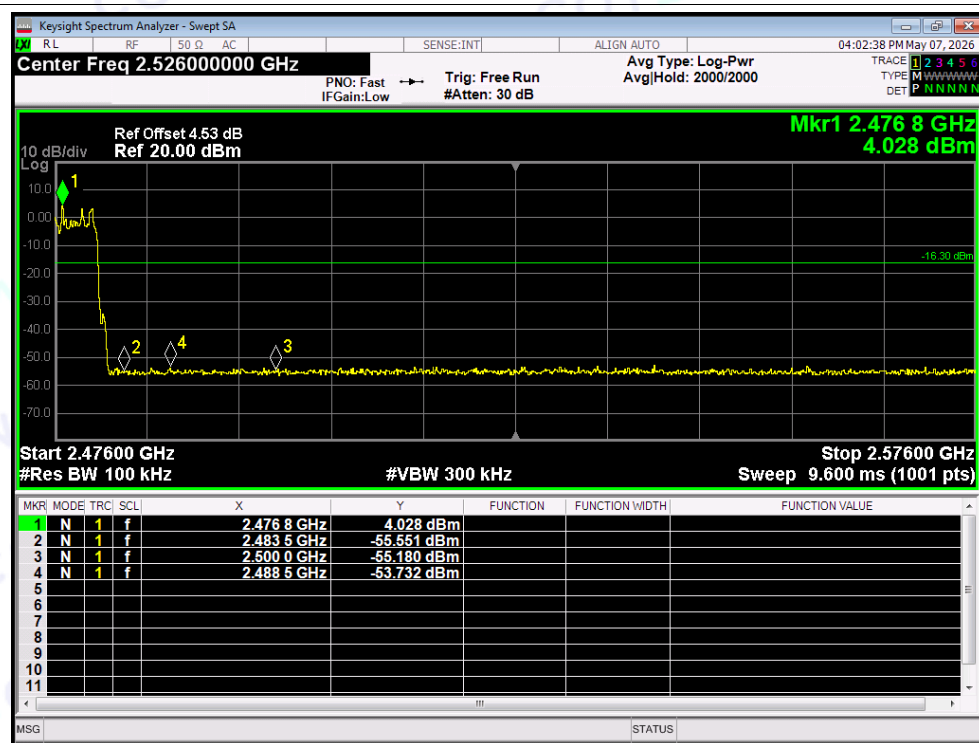
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

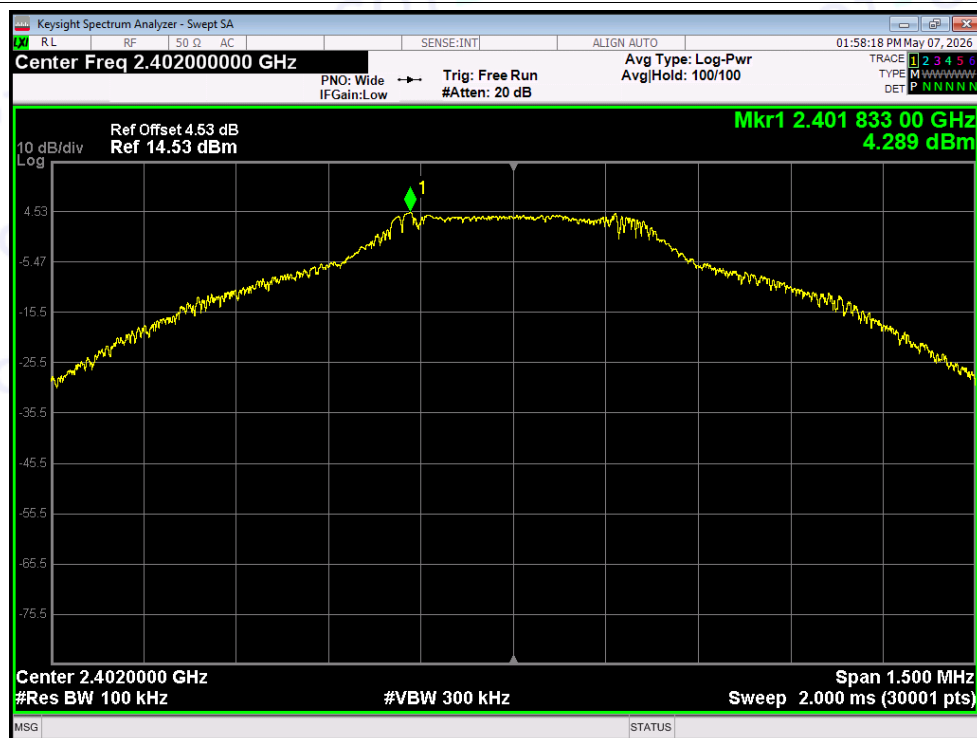


8. Conducted RF Spurious Emission

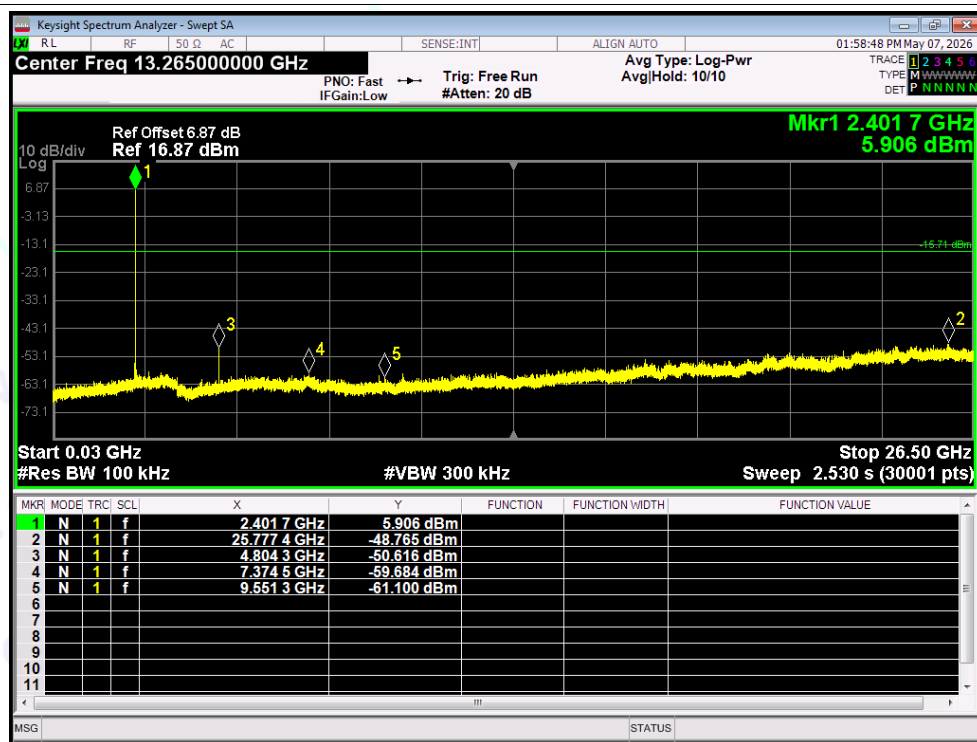
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.06	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.32	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.46	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.64	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.32	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.61	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.65	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.42	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.51	-20	Pass

Test Graphs

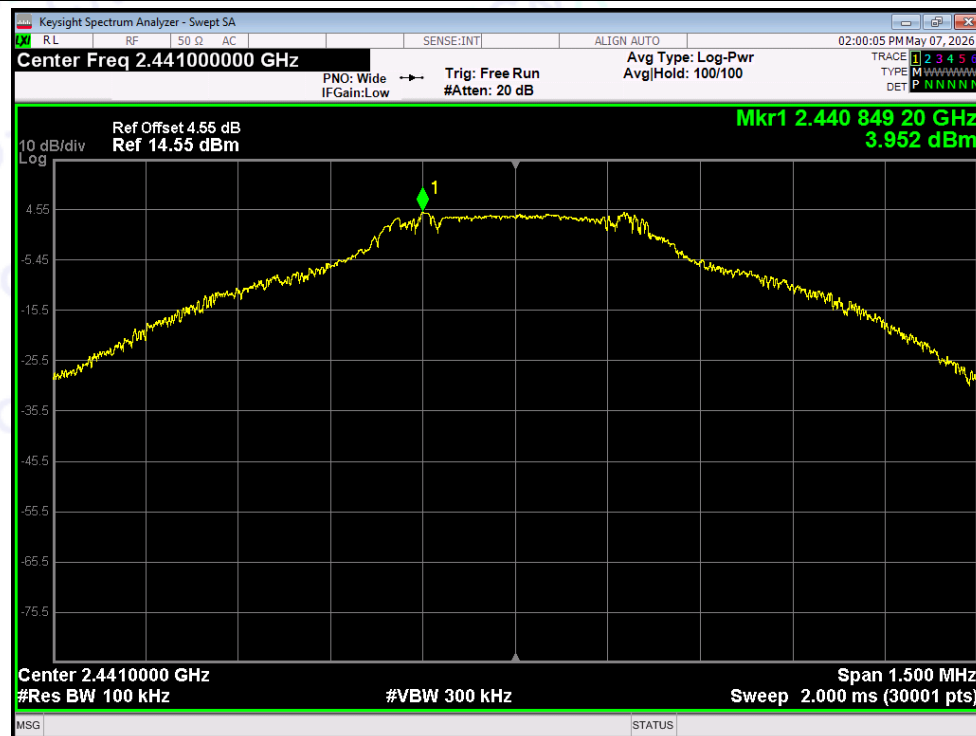
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



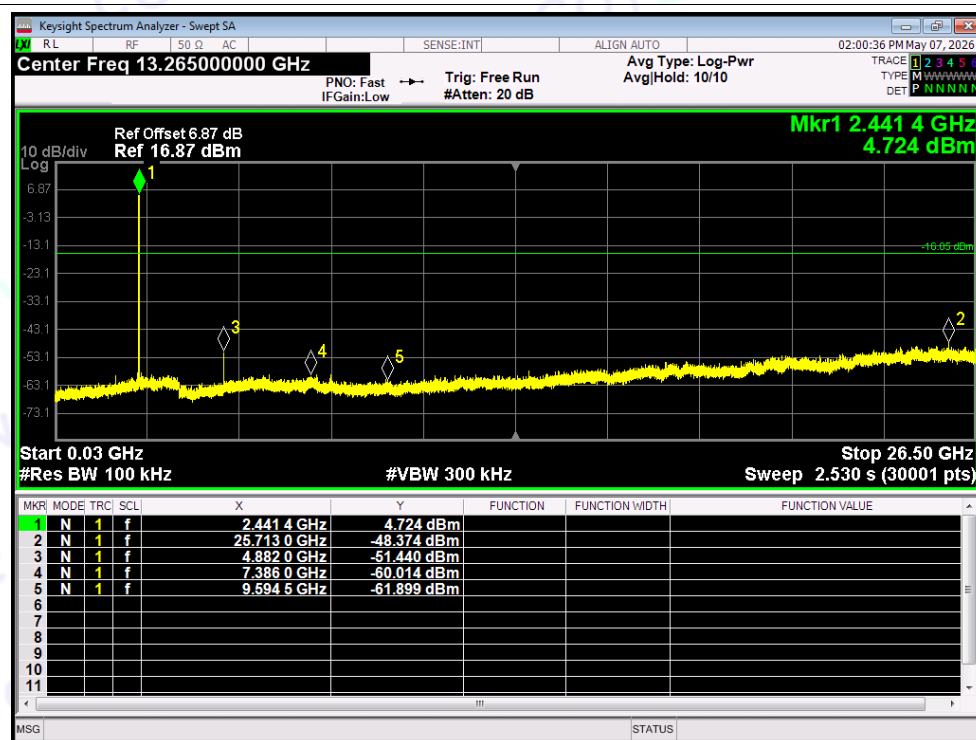
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



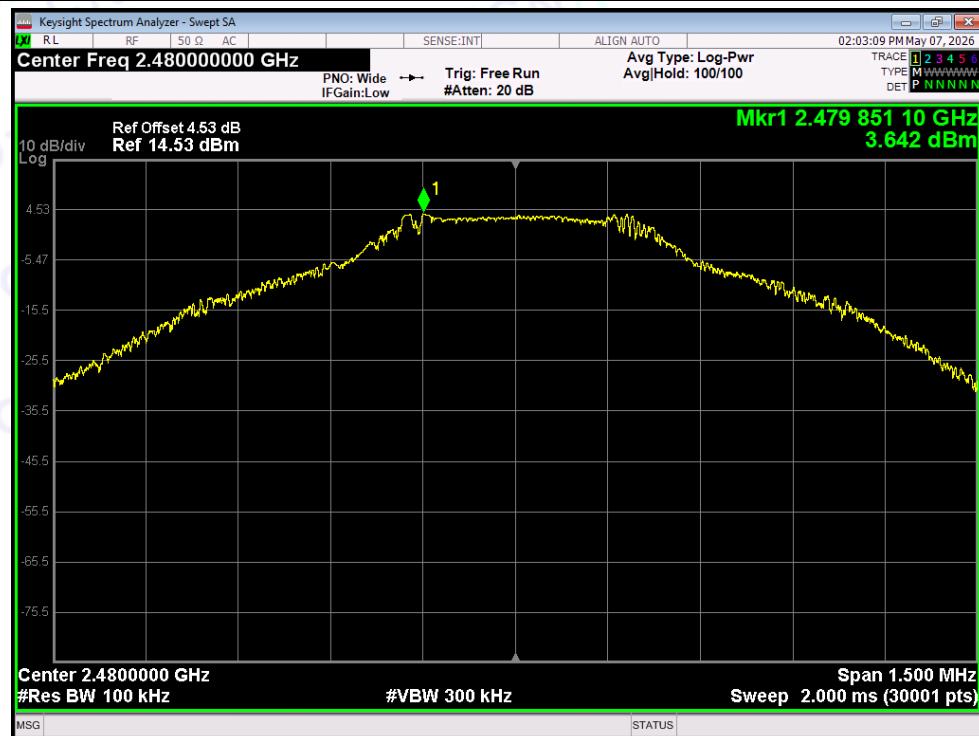
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



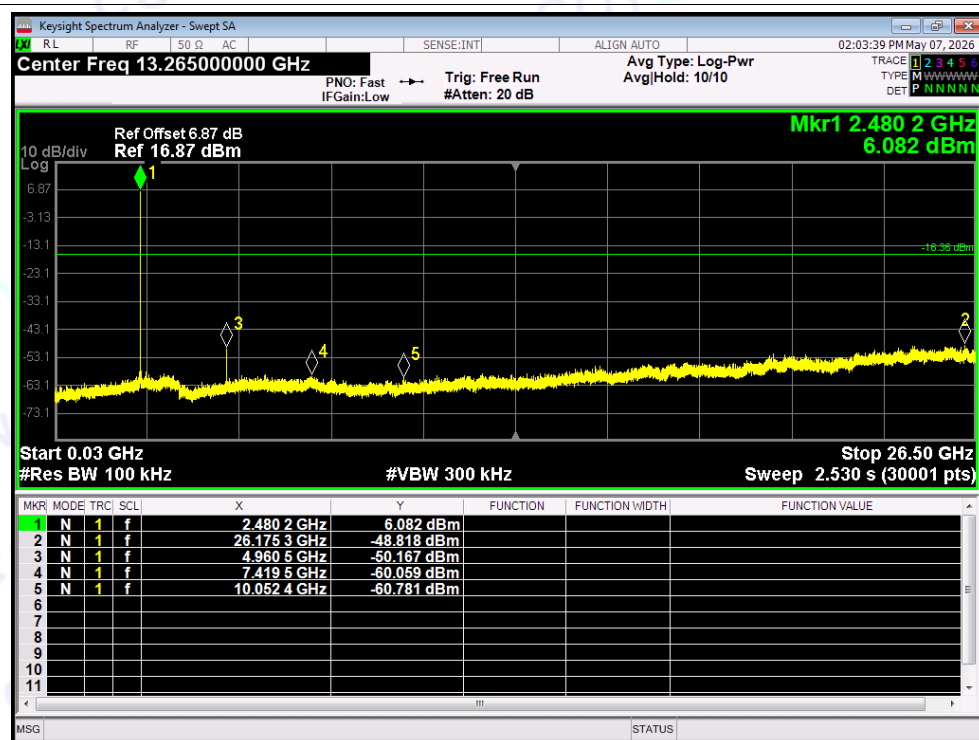
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



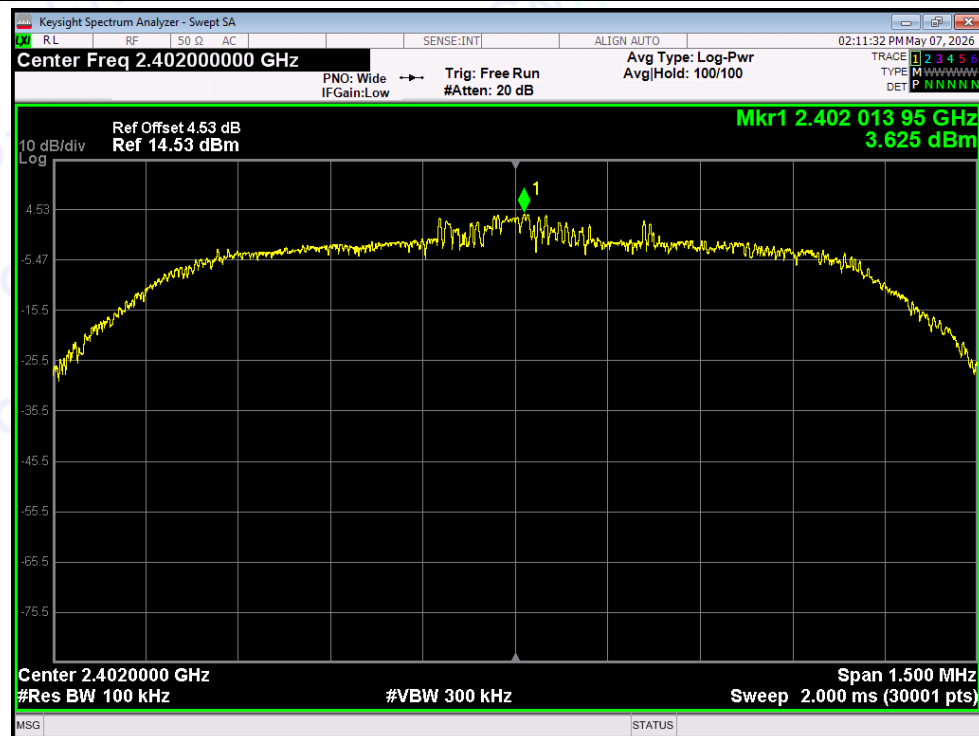
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



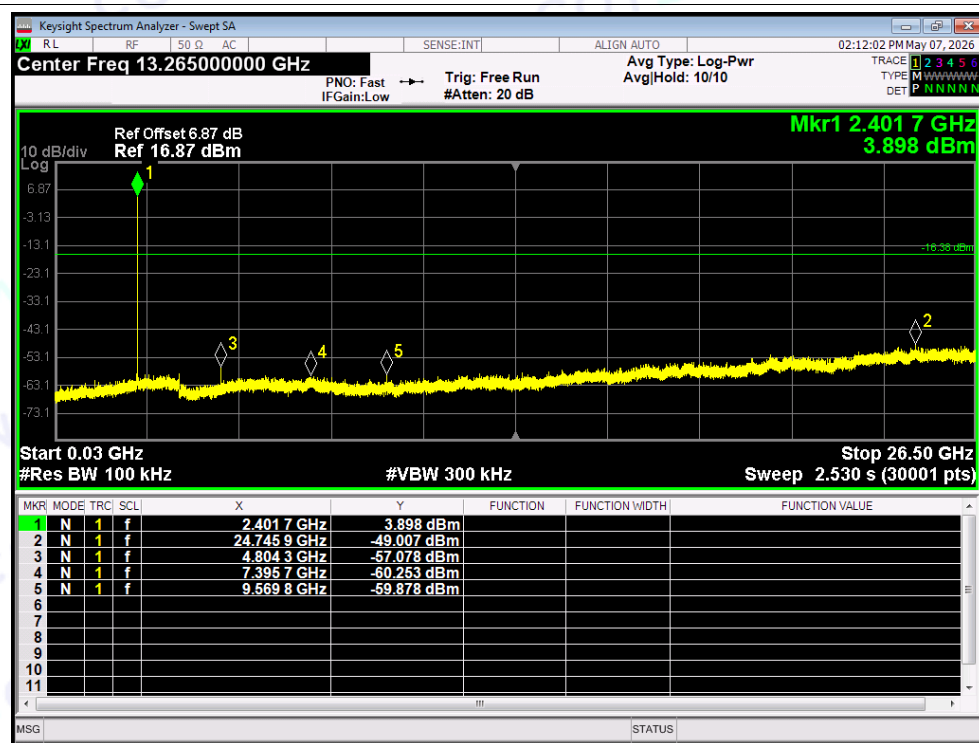
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



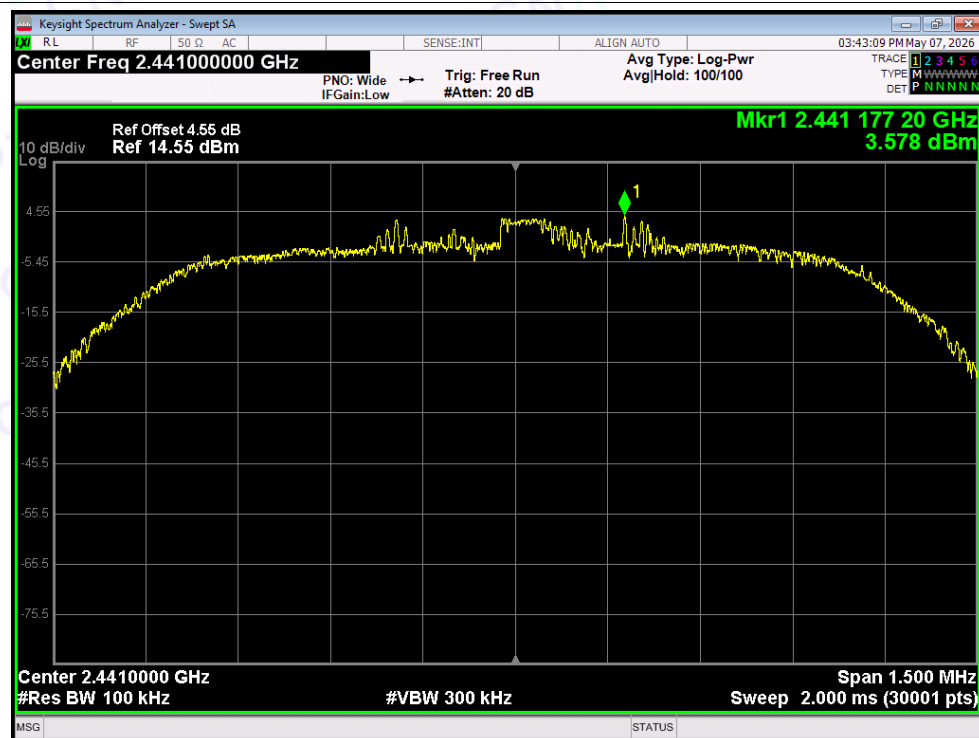
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



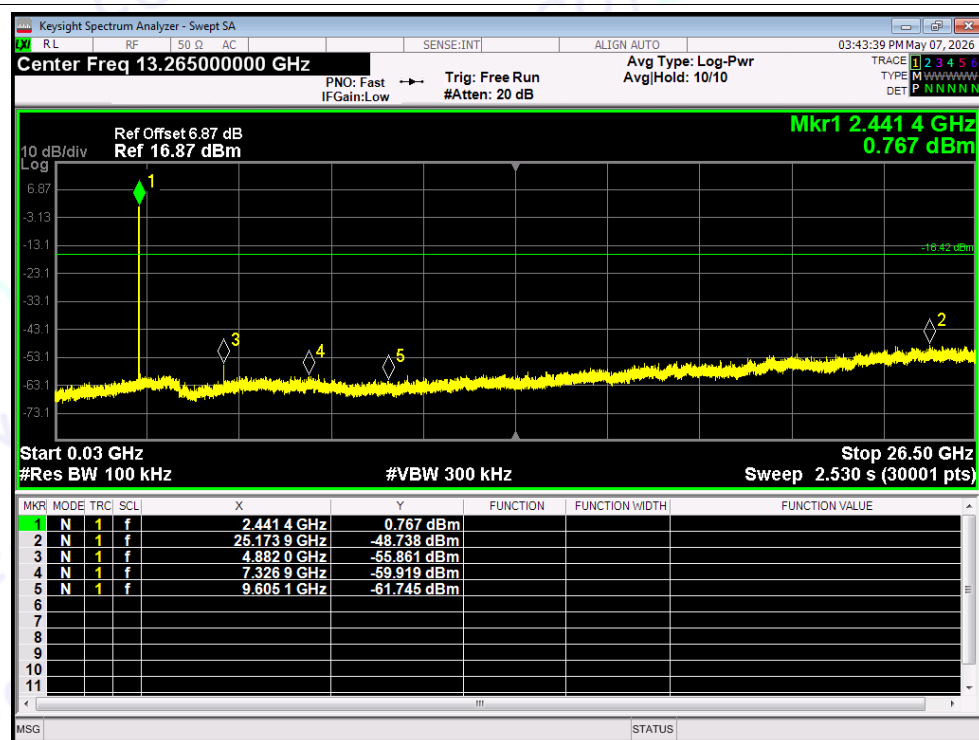
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



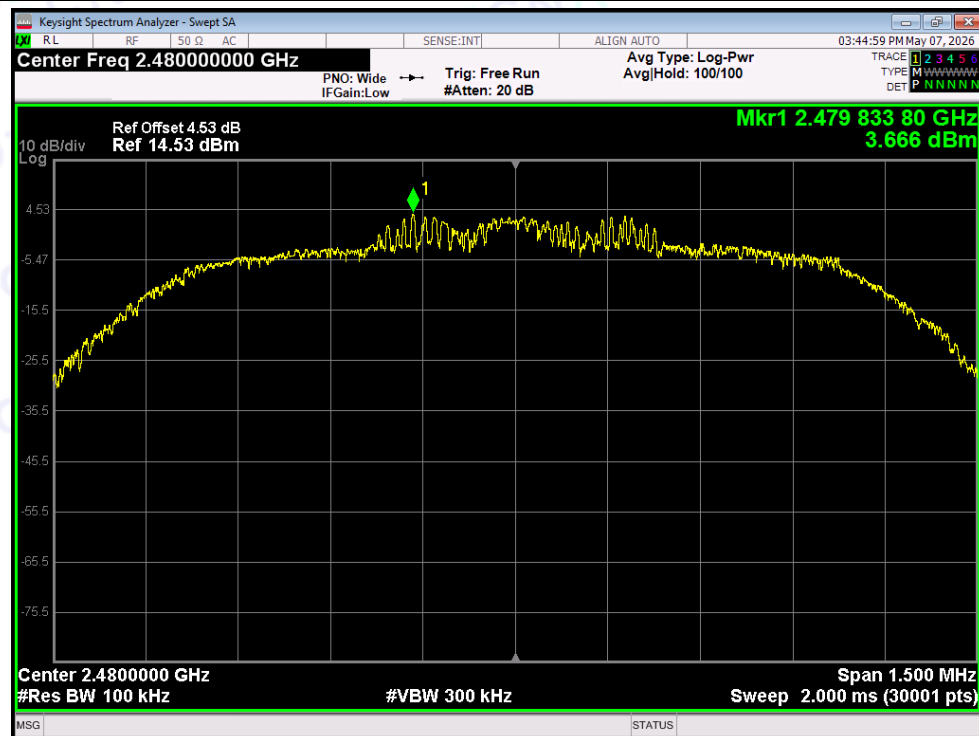
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



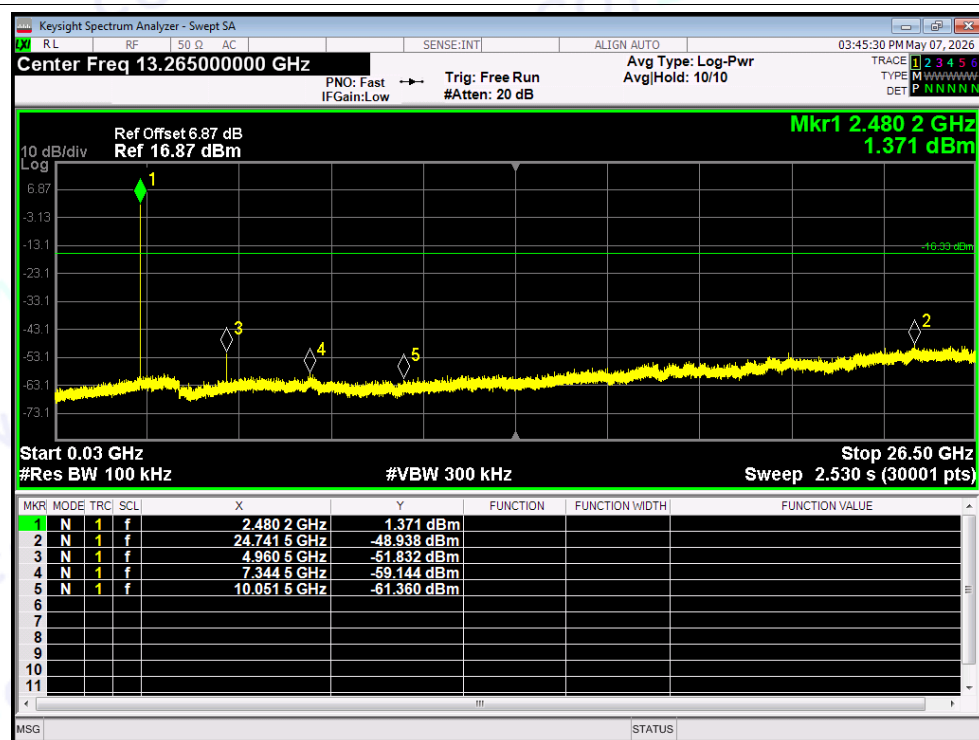
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



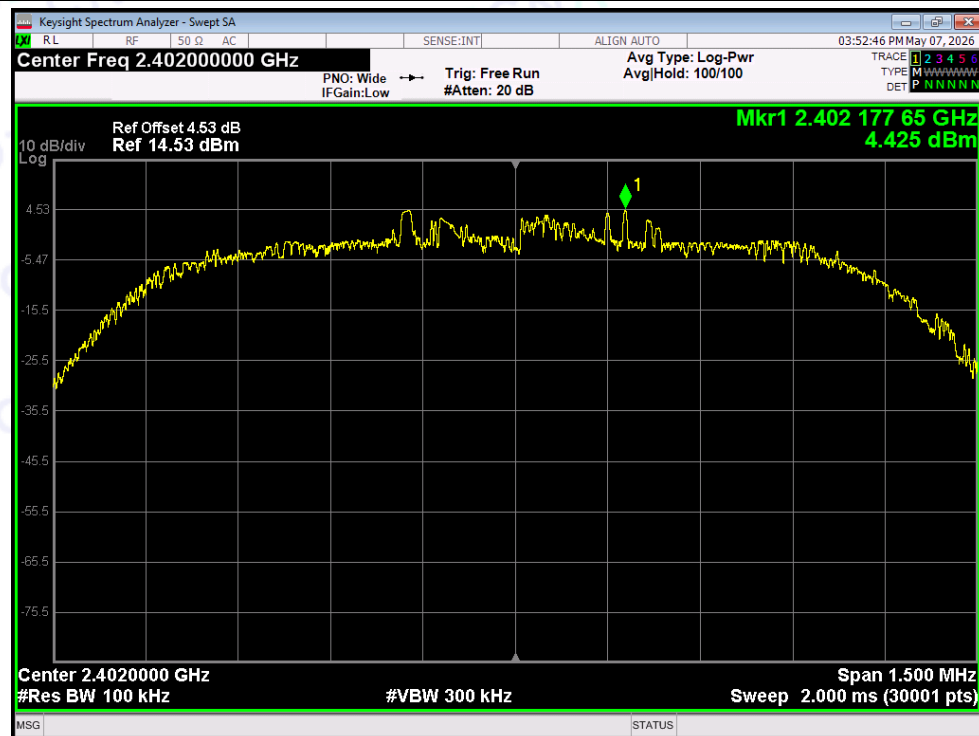
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



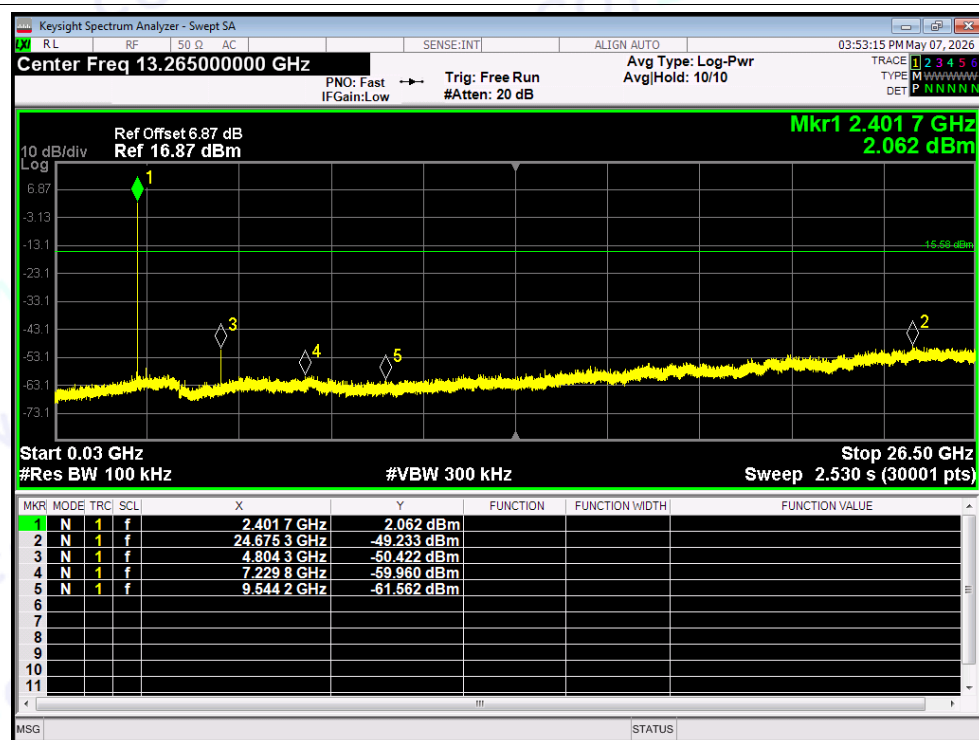
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



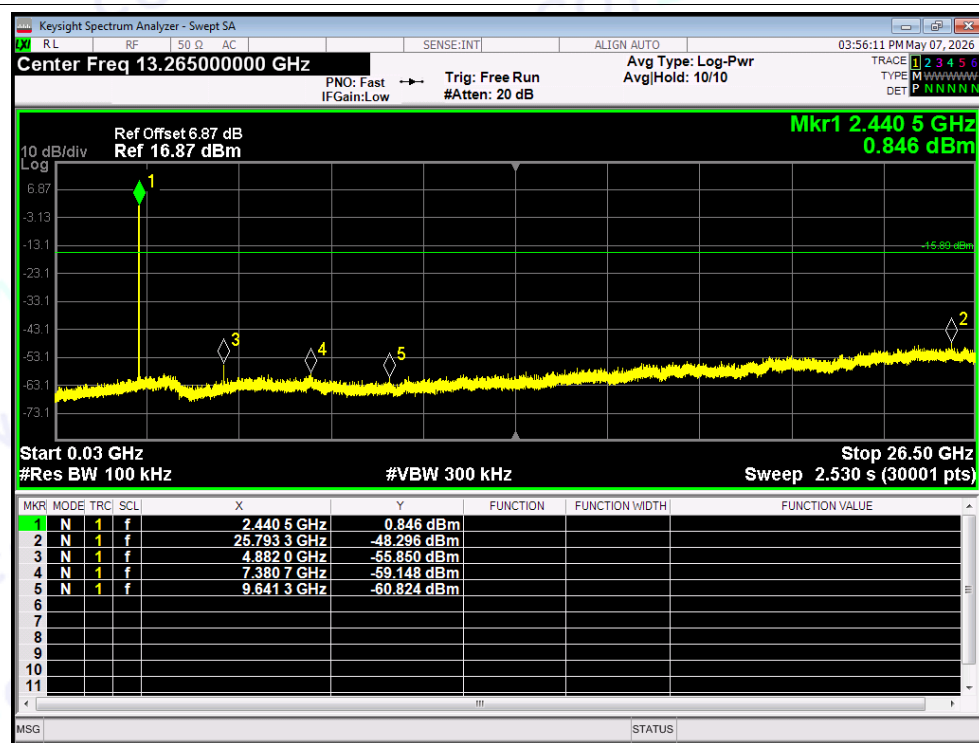
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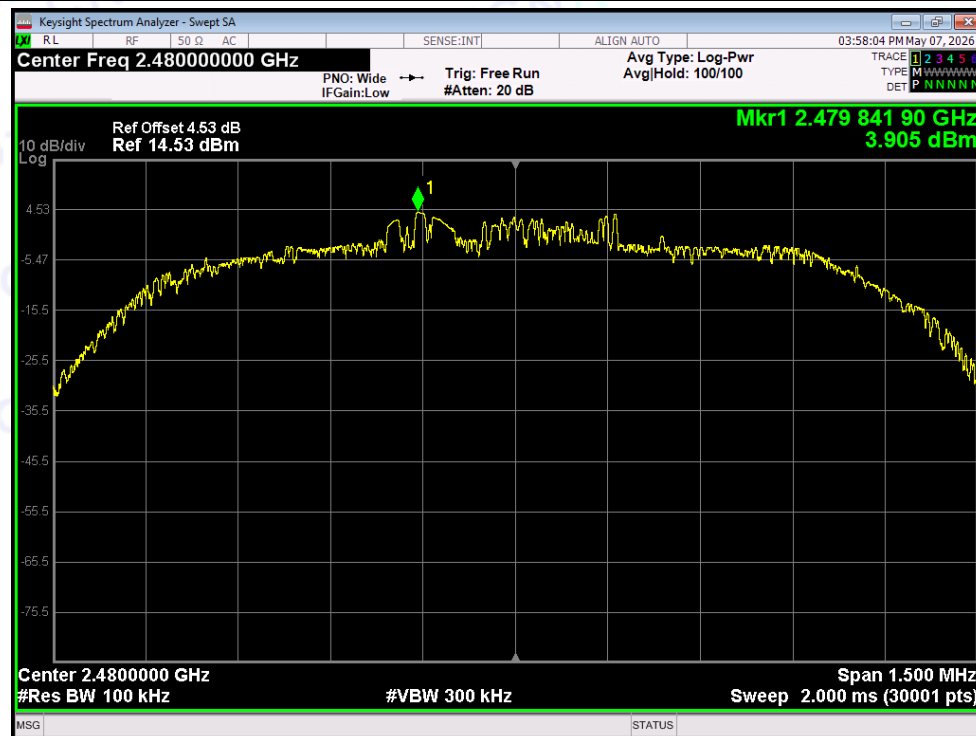
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



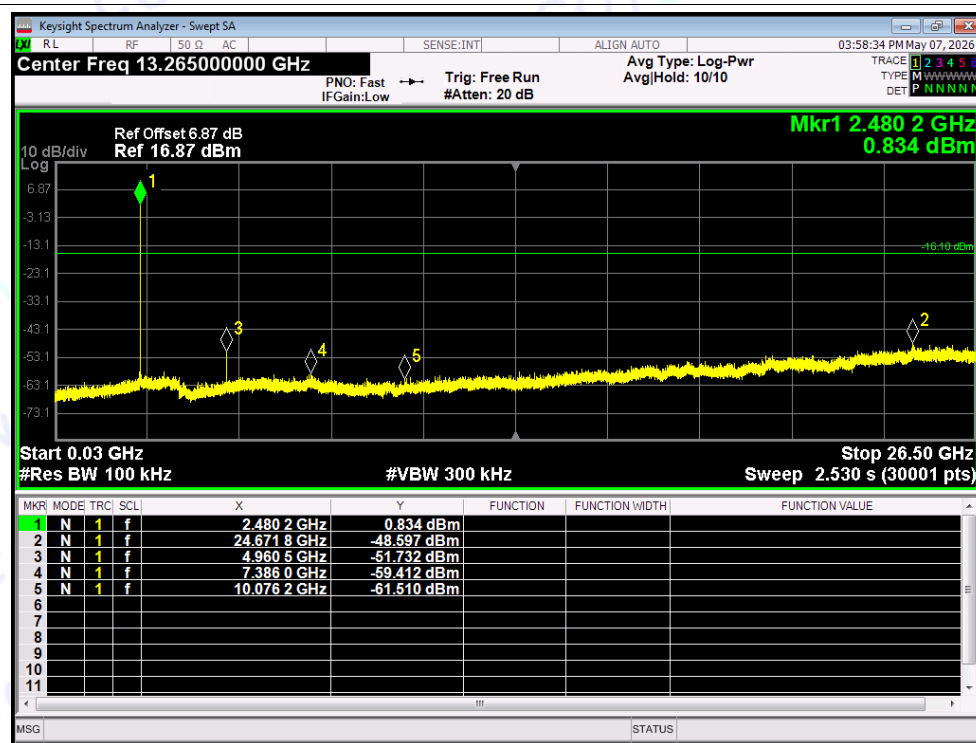
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

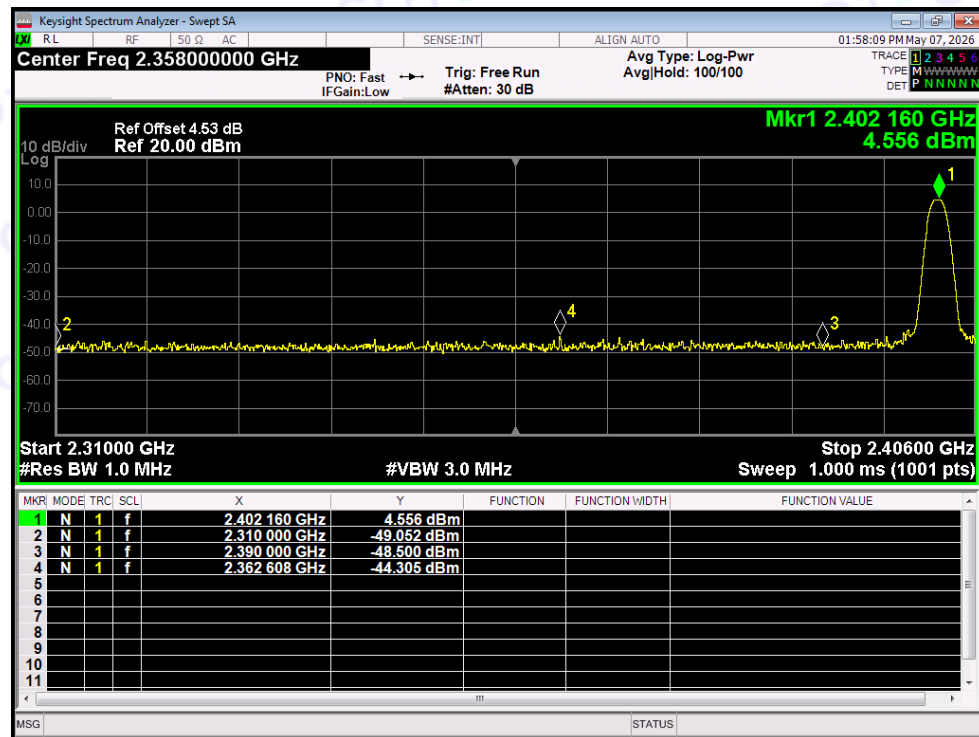


9. Restrict Band

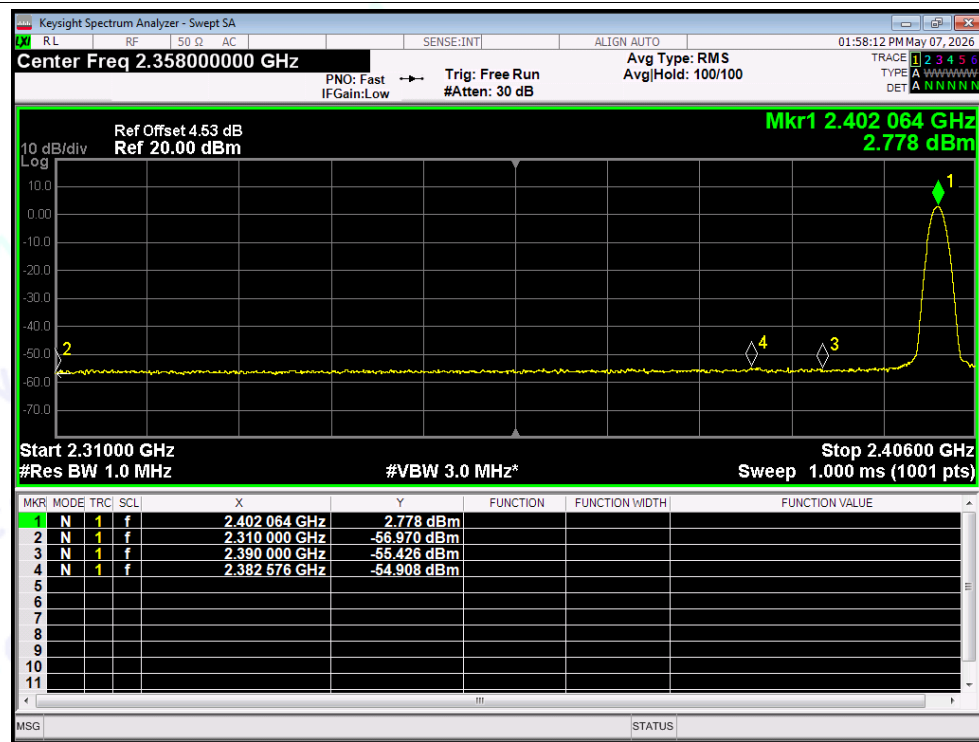
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.05	2	-	48.21	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-56.97	2	1.16	41.45	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2362.608	-44.31	2	-	52.95	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2382.576	-54.91	2	1.16	43.51	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.5	2	-	48.76	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-55.43	2	1.16	42.99	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-45.58	2	-	51.68	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.89	2	1.16	43.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2490.496	-44.05	2	-	53.21	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-54.28	2	1.16	44.14	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-46.34	2	-	50.92	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-55.48	2	1.16	42.94	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.99	2	-	48.27	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-56.94	2	1.14	41.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2347.056	-44.78	2	-	52.48	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.912	-55.16	2	1.14	43.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.25	2	-	49.01	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-56.13	2	1.14	42.27	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.26	2	-	51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.63	2	1.14	43.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.208	-44.7	2	-	52.56	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.896	-54.59	2	1.14	43.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.53	2	-	48.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-55.6	2	1.14	42.8	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.19	2	-	49.07	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-56.35	2	1.15	42.06	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2352.432	-45.01	2	-	52.25	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2383.152	-55.05	2	1.15	43.36	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49	2	-	48.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-55.63	2	1.15	42.78	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-43.93	2	-	53.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.45	2	1.15	42.96	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-43.93	2	-	53.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.256	-54.66	2	1.15	43.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.61	2	-	48.65	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-55.66	2	1.15	42.75	Average	54	Pass

Test Graphs

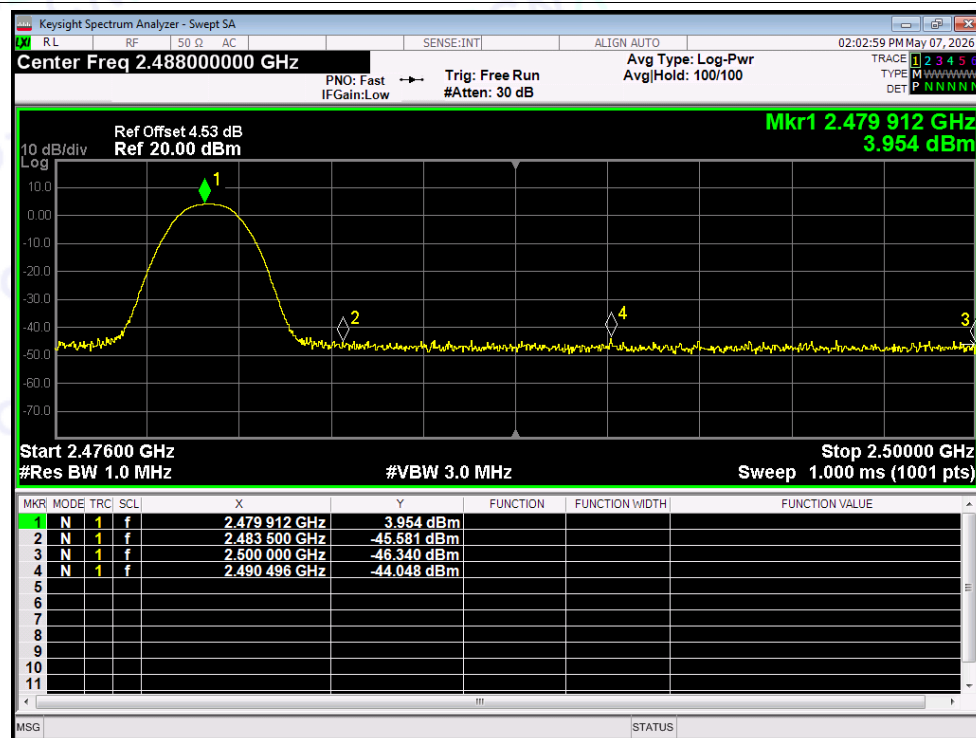
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



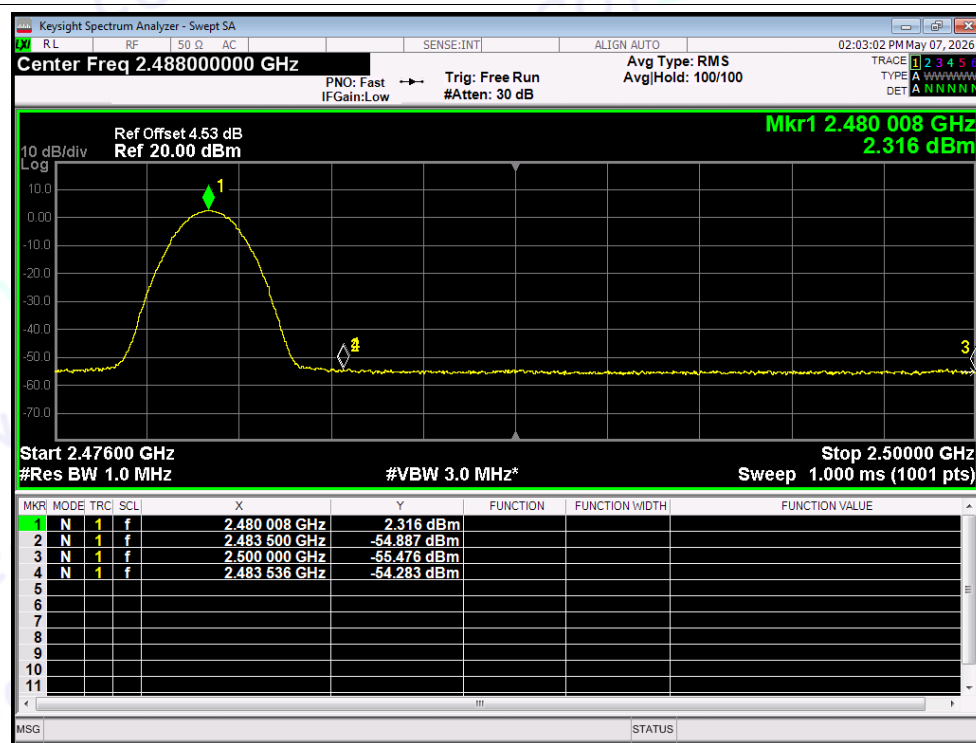
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



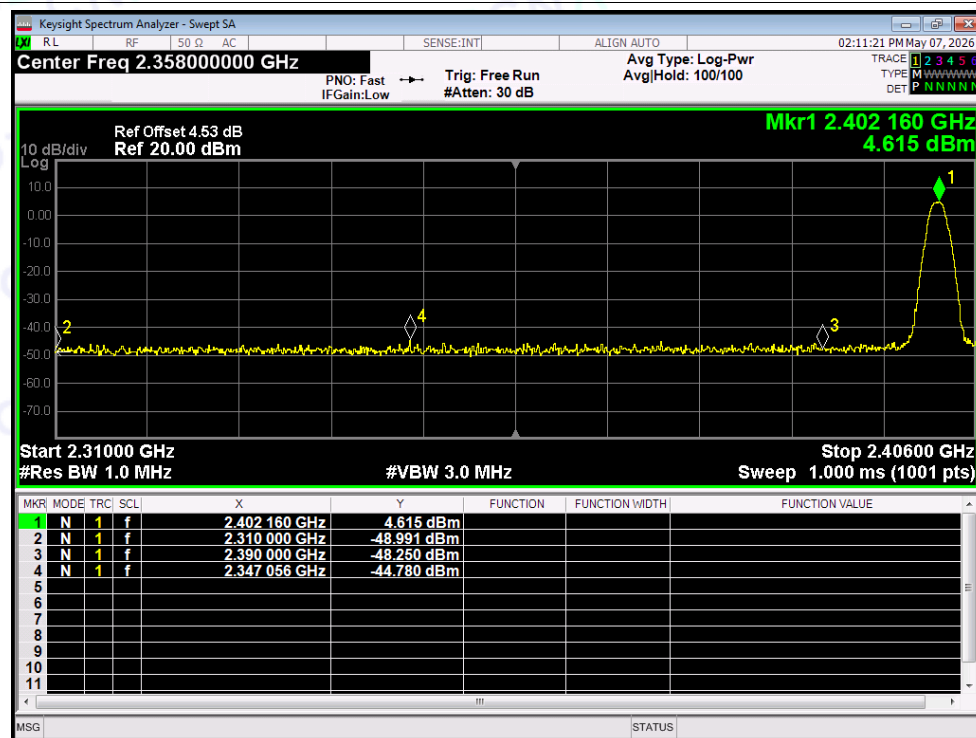
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



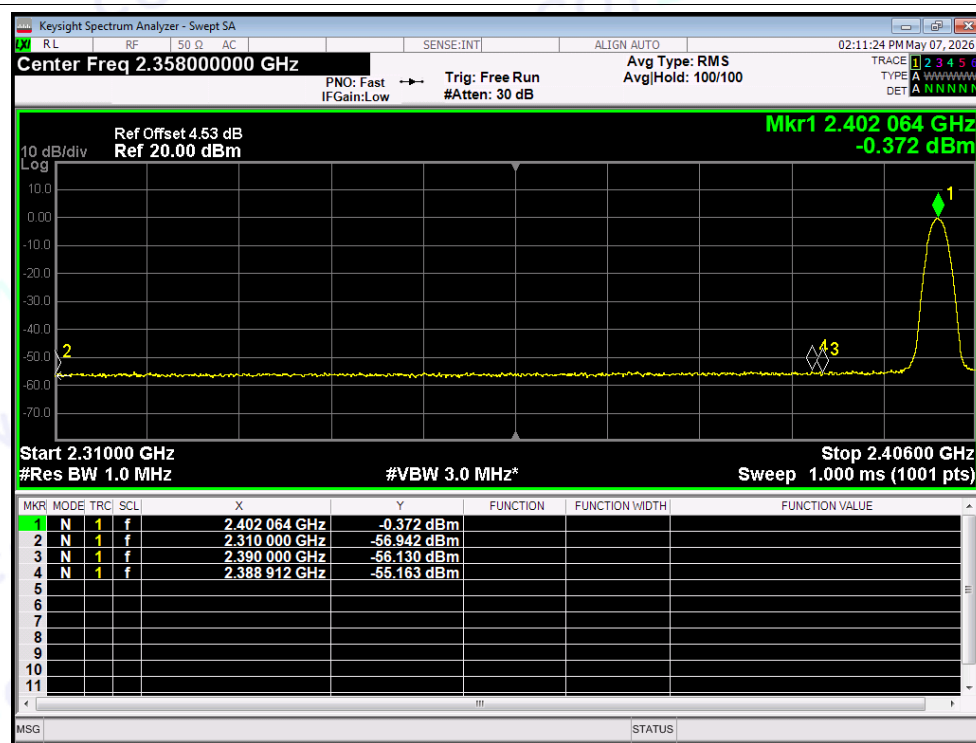
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



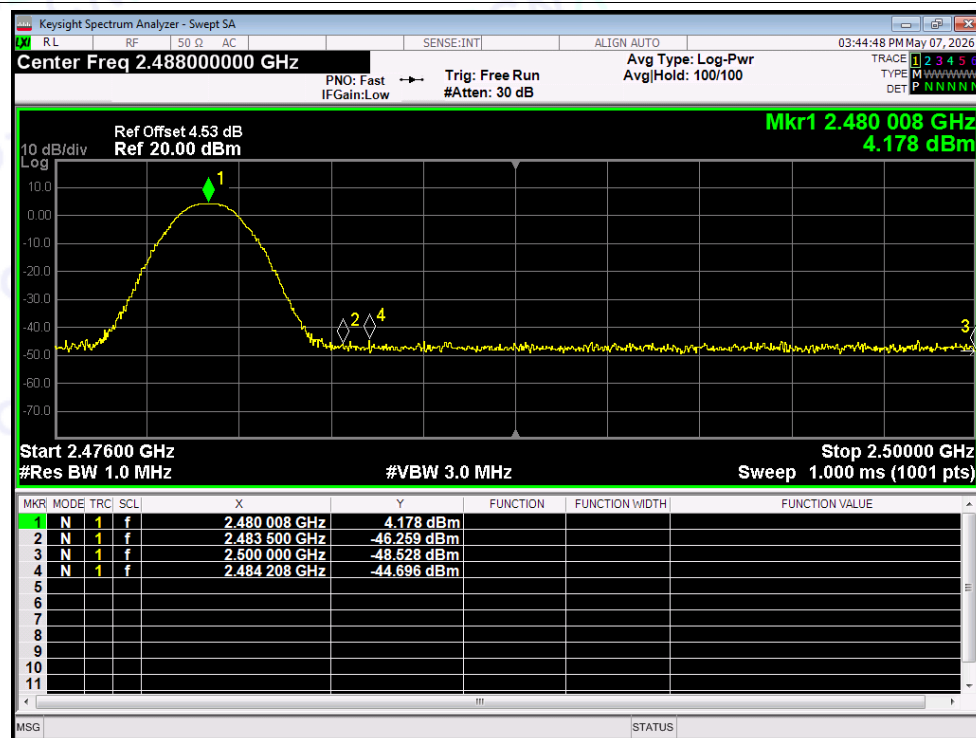
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



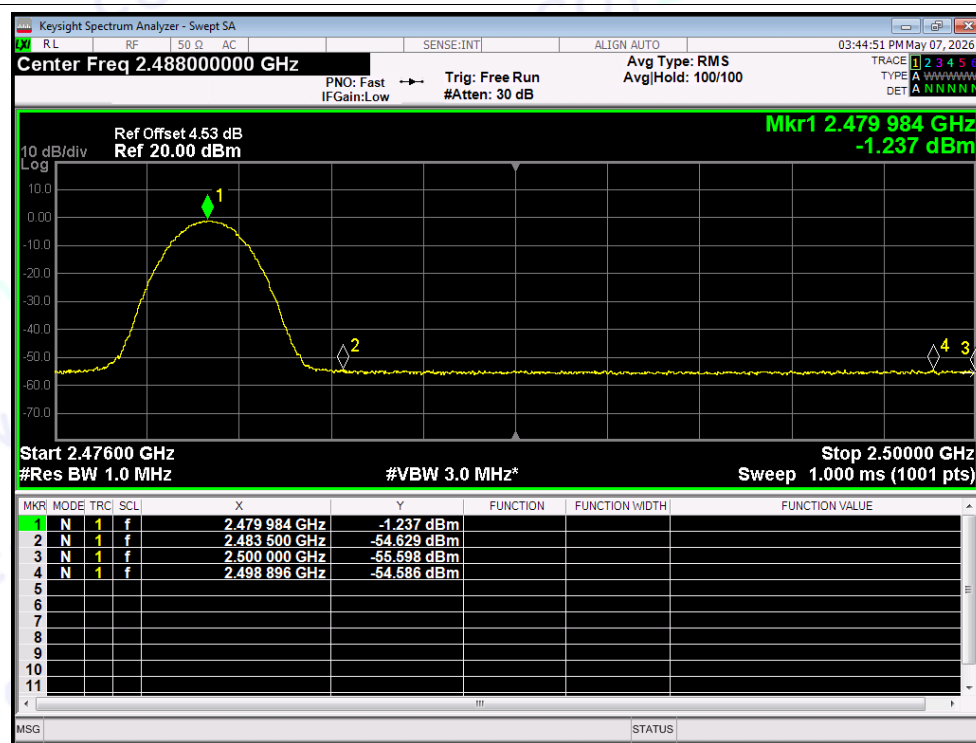
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



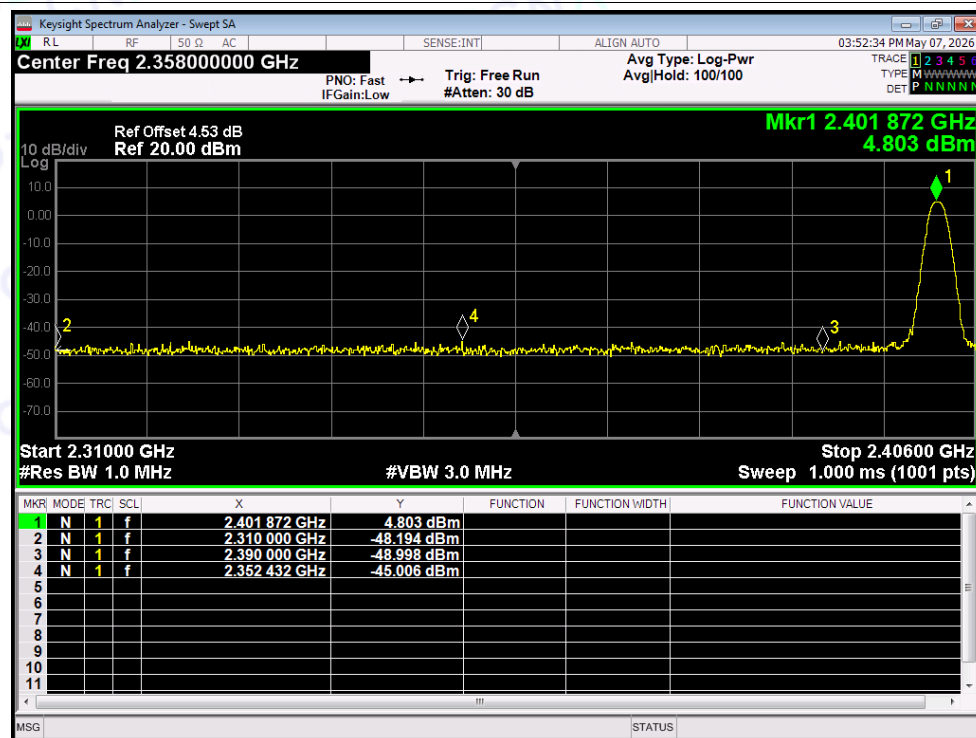
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



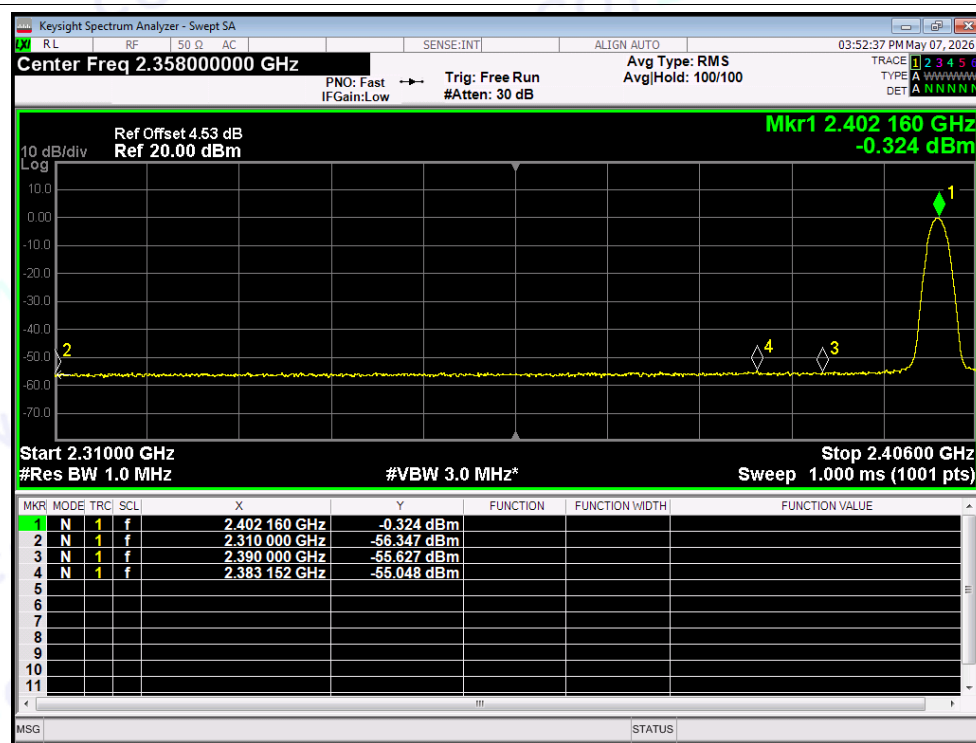
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



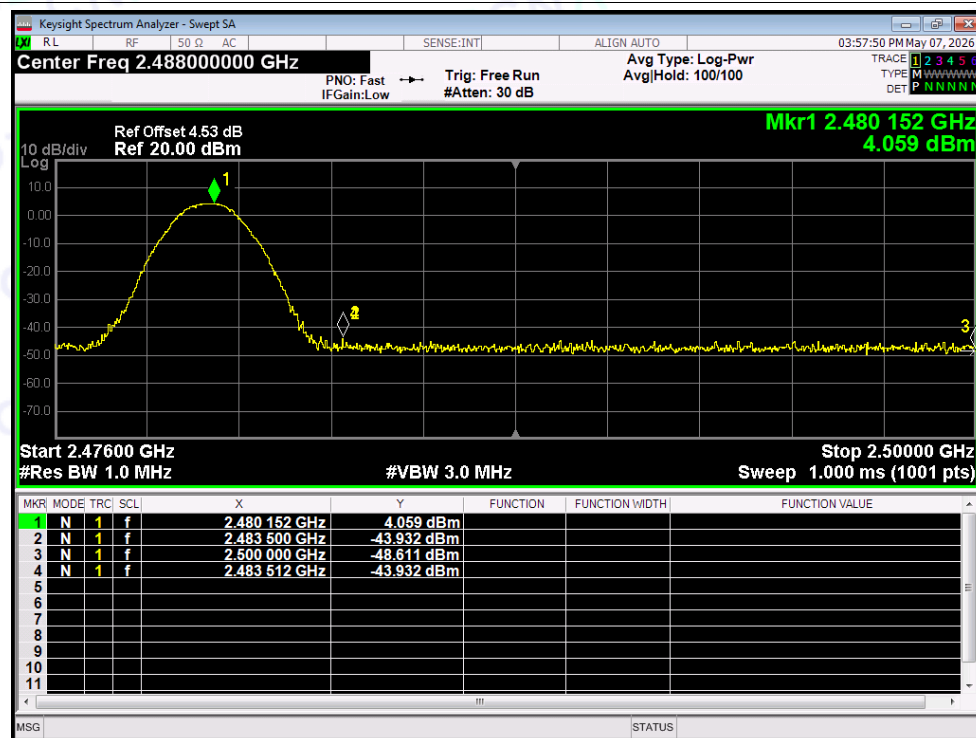
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



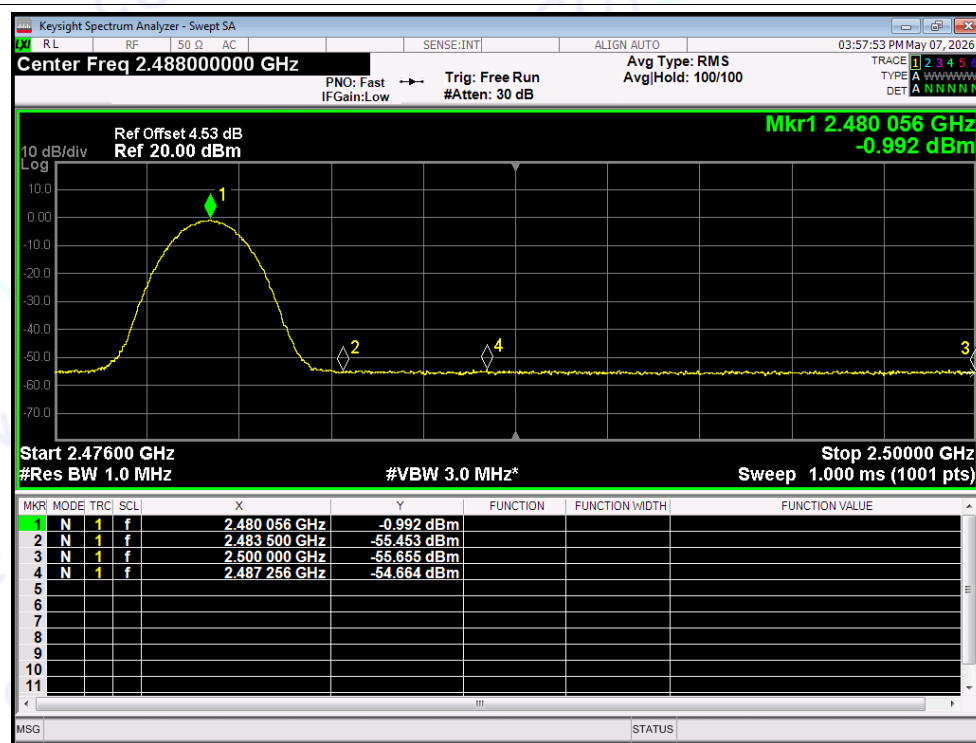
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

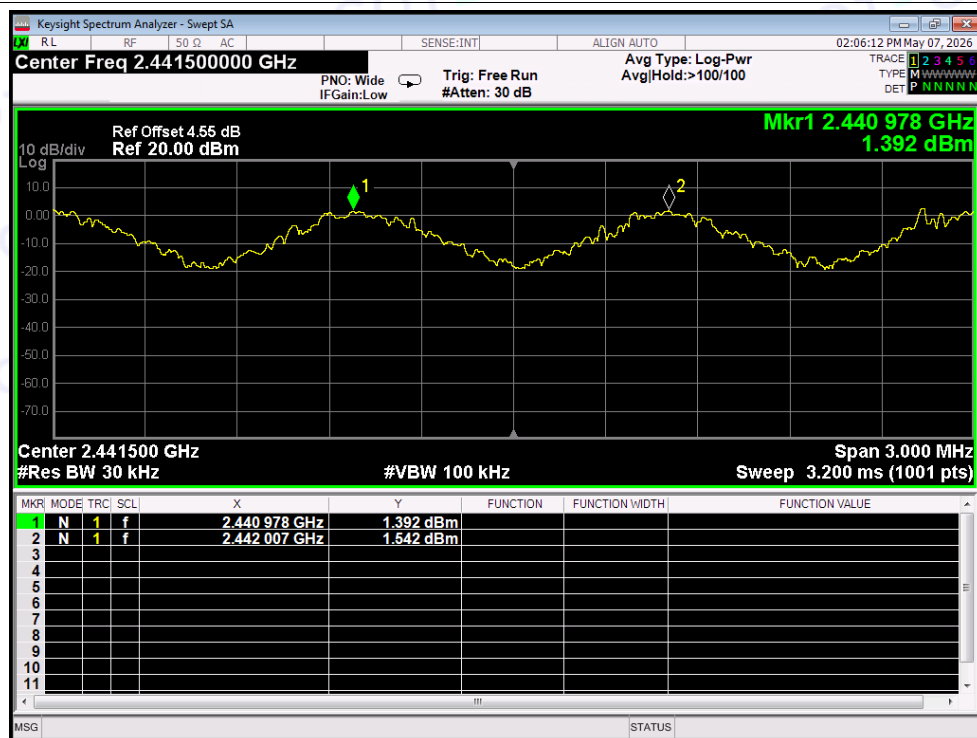


10. Carrier Frequencies Separation

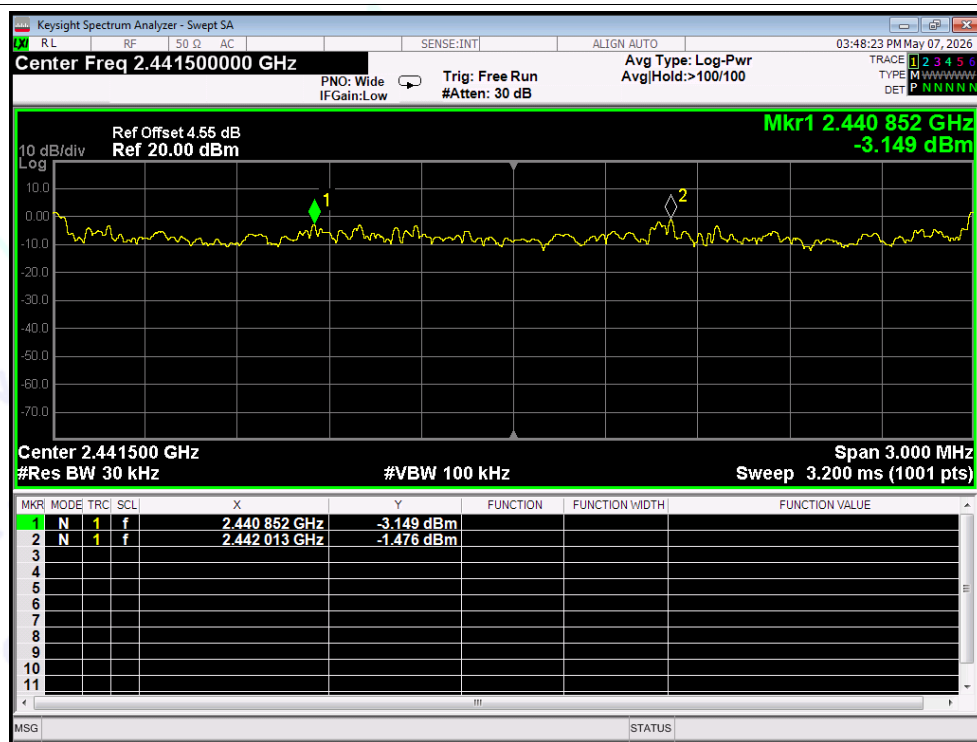
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2440.978	2442.007	1.029	0.62	Pass
NVNT	2-DH5	Ant1	2440.852	2442.013	1.161	0.893	Pass
NVNT	3-DH5	Ant1	2441.005	2442.022	1.017	0.86	Pass

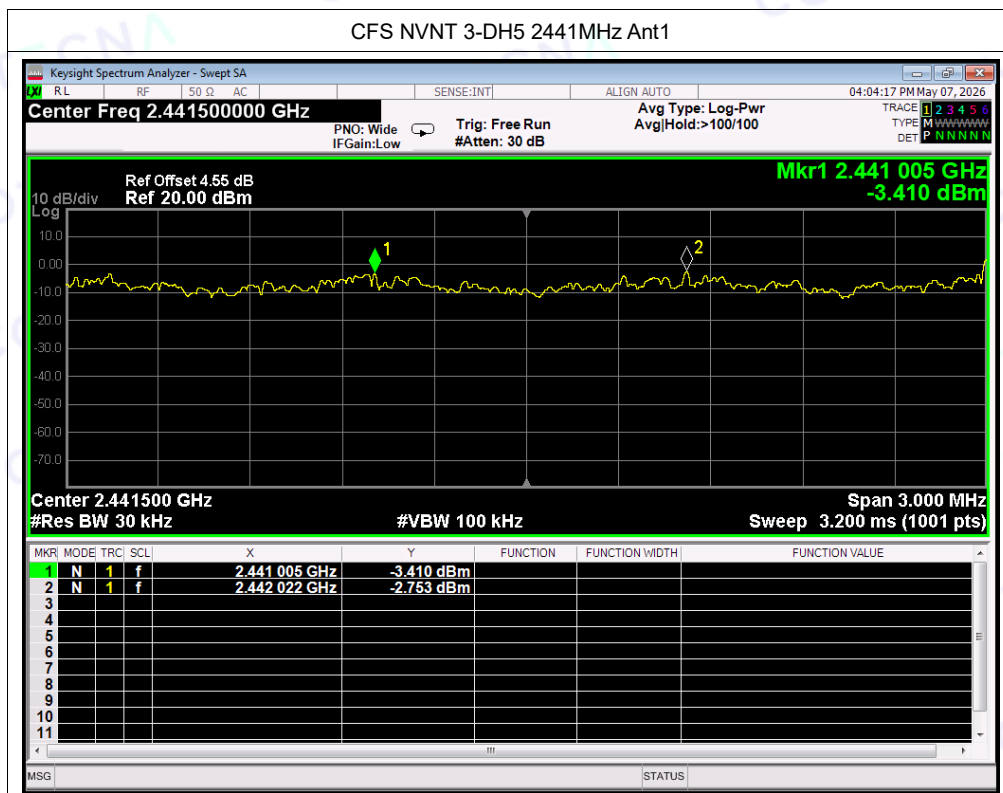
Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



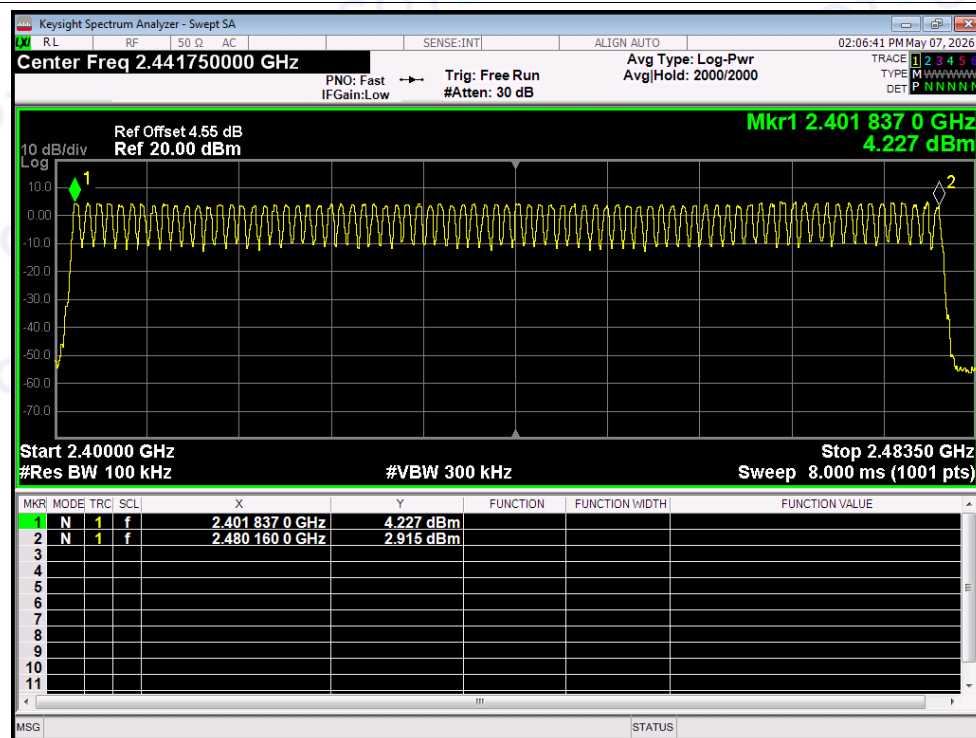


11. Number of Hopping Channel

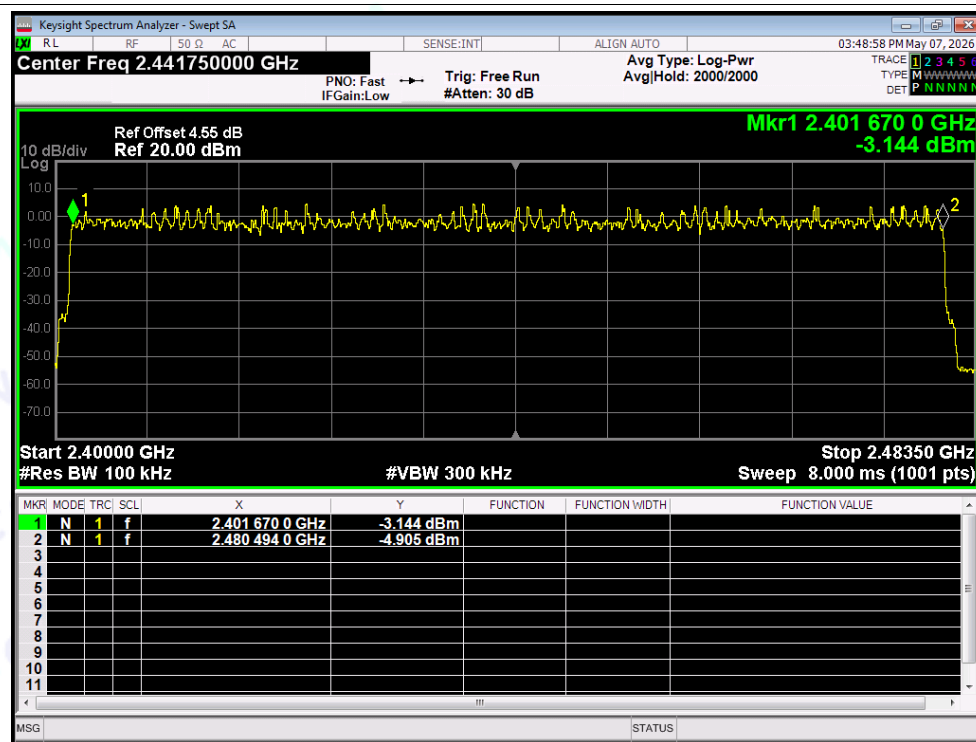
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

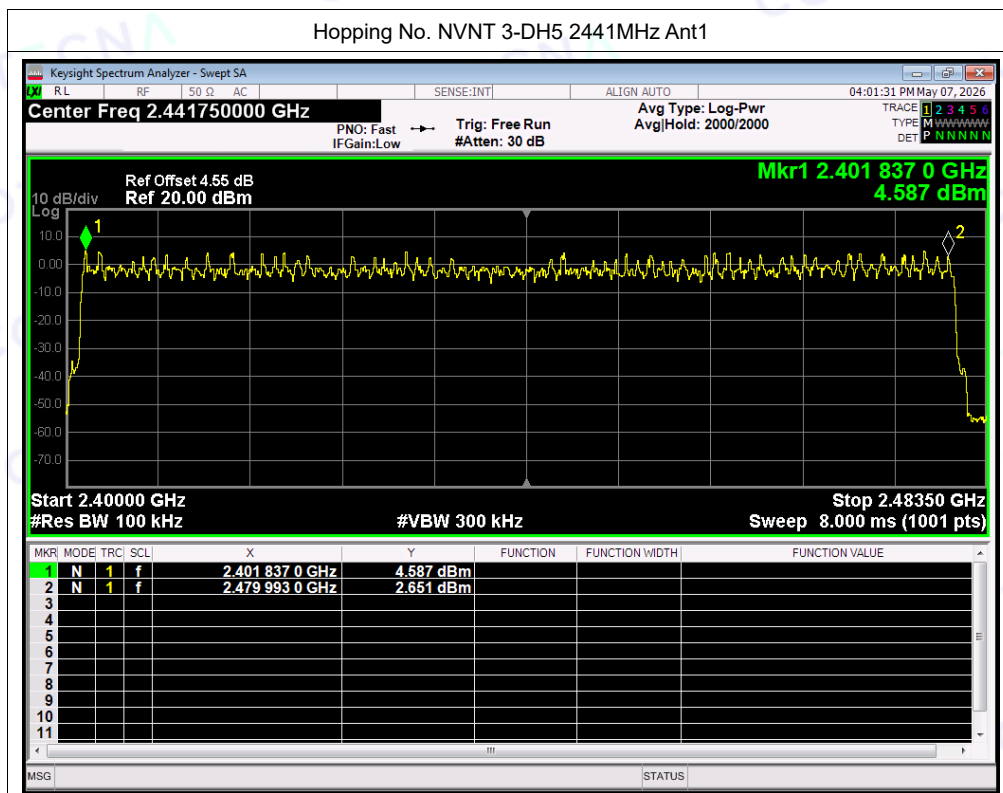
Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1





--- END OF REPORT ---