

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Intelligent separated call wristband
Test Model:	D16
Sample ID:	HC-C-202508-0126-01-2#
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	49%
Test Voltage:	DC 5V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202508-0126-111 The report only show the worst case data.	

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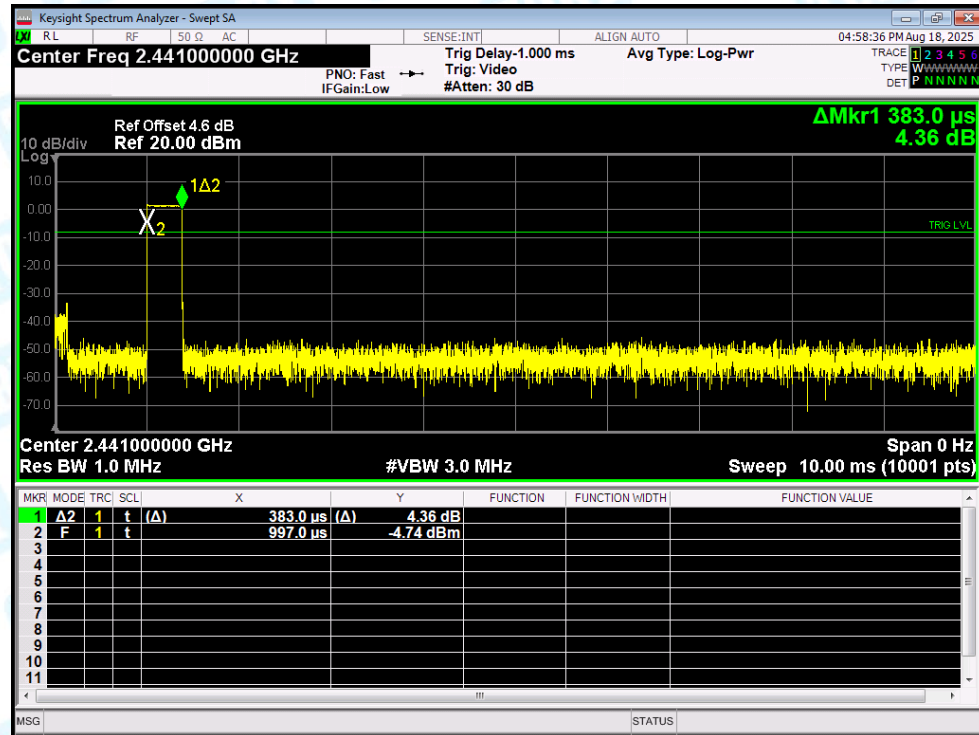
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1. Dwell Time

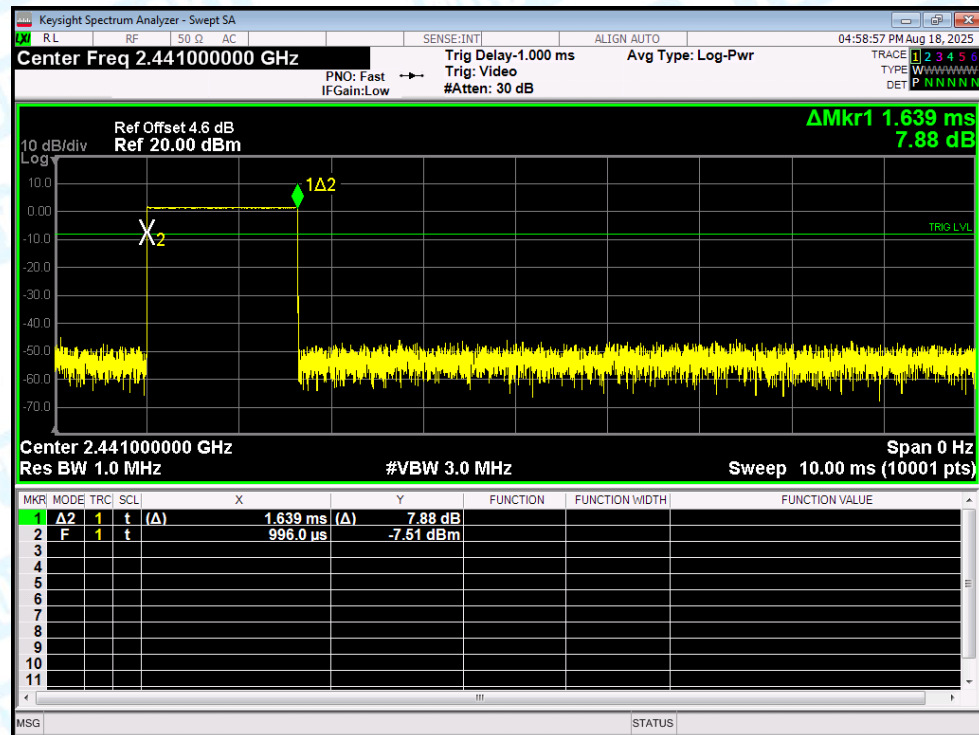
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	263.04	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	308.48	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.643	262.88	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.894	308.693	31600	400	Pass

Test Graphs

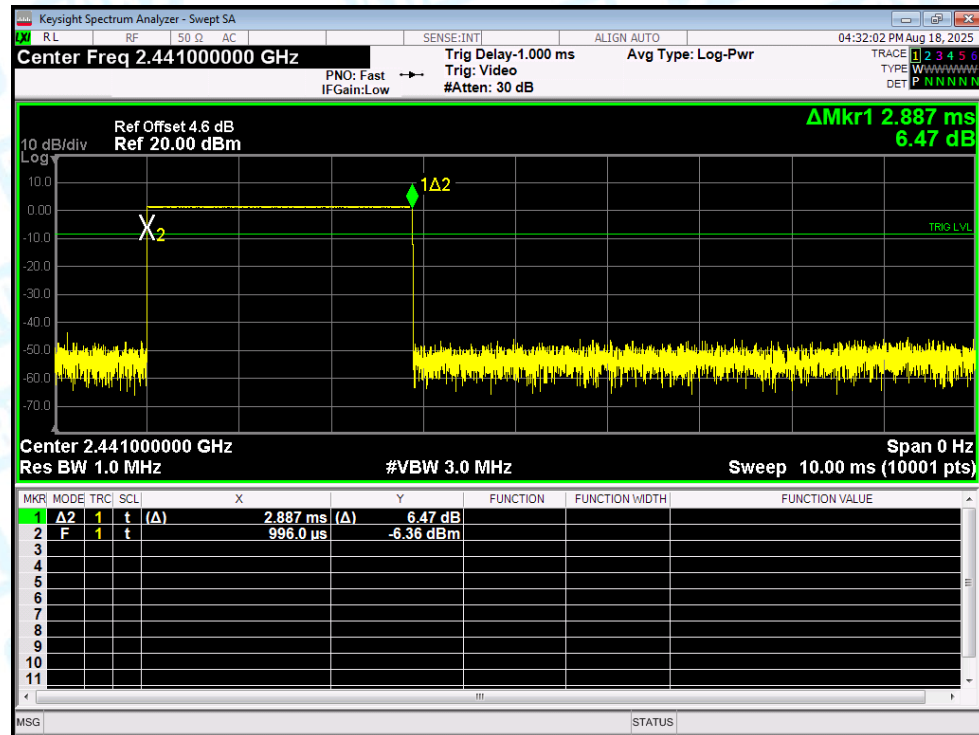
Dwell NVNT 1-DH1 2441MHz Ant1



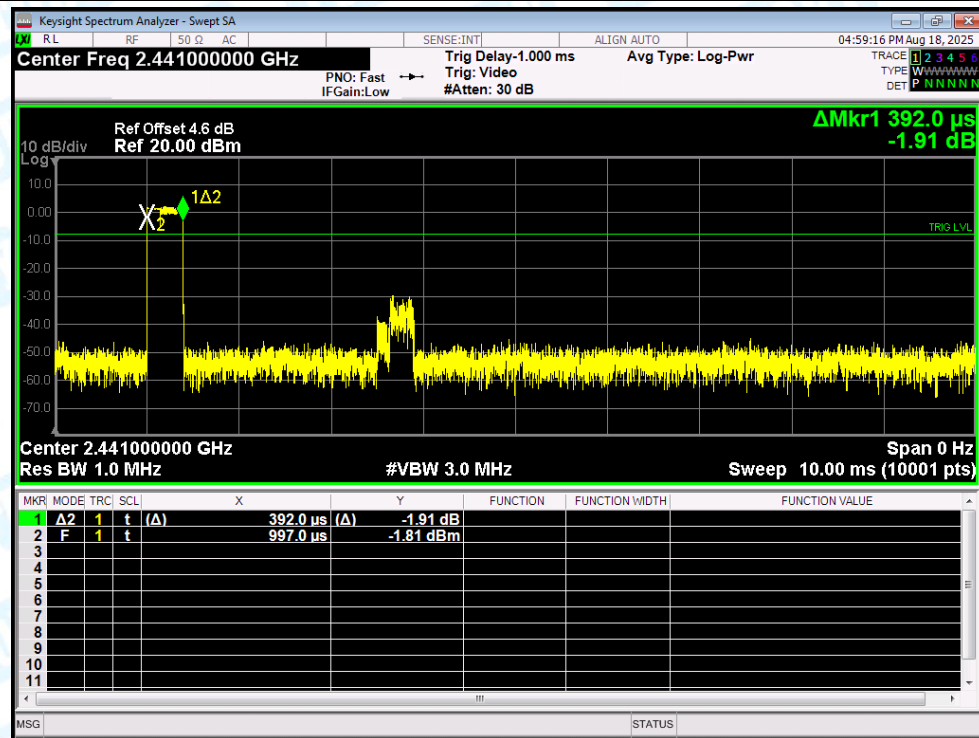
Dwell NVNT 1-DH3 2441MHz Ant1



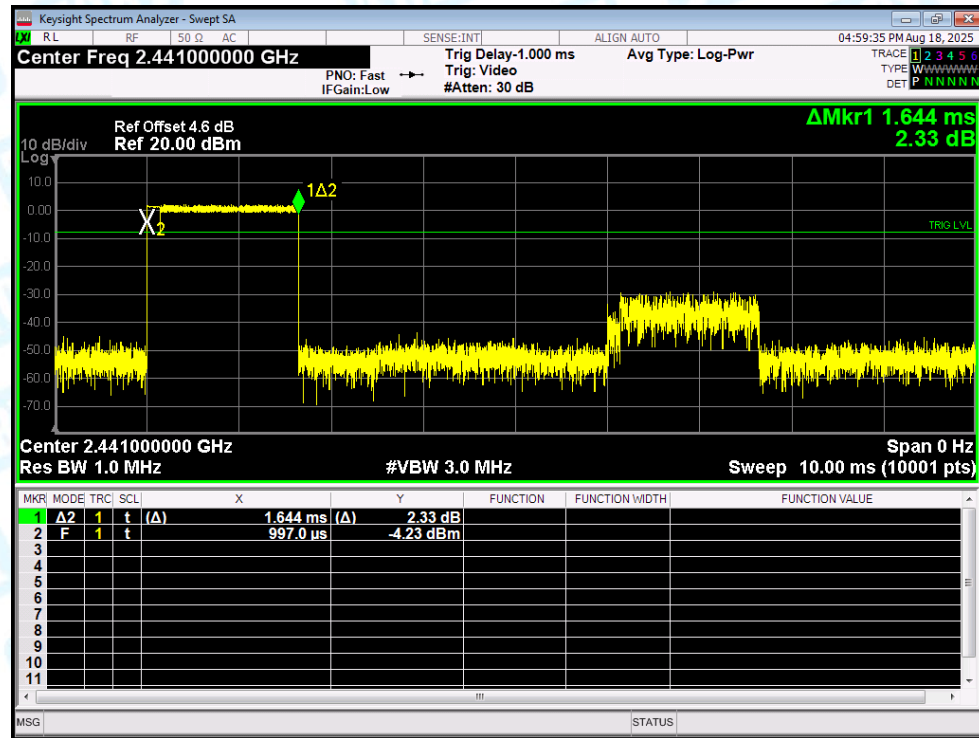
Dwell NVNT 1-DH5 2441MHz Ant1



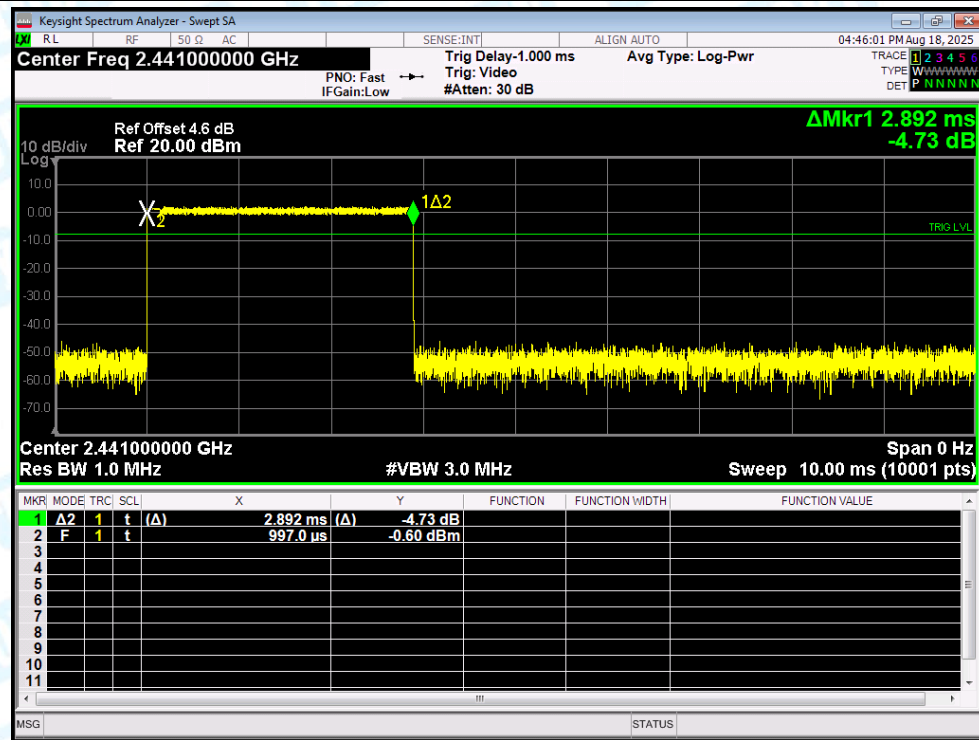
Dwell NVNT 2-DH1 2441MHz Ant1



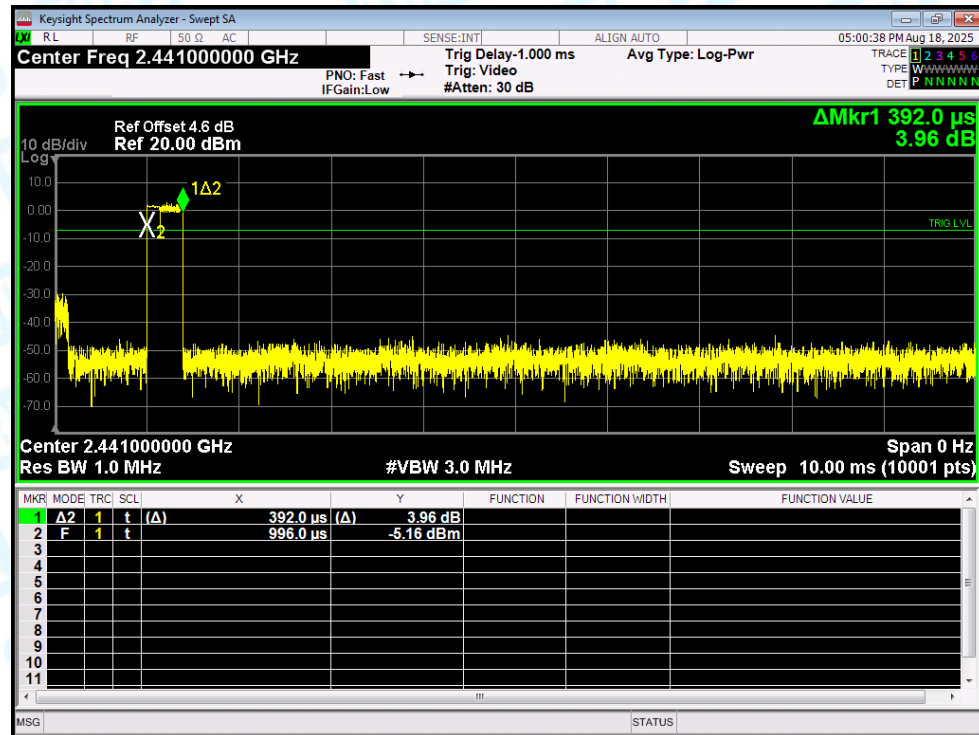
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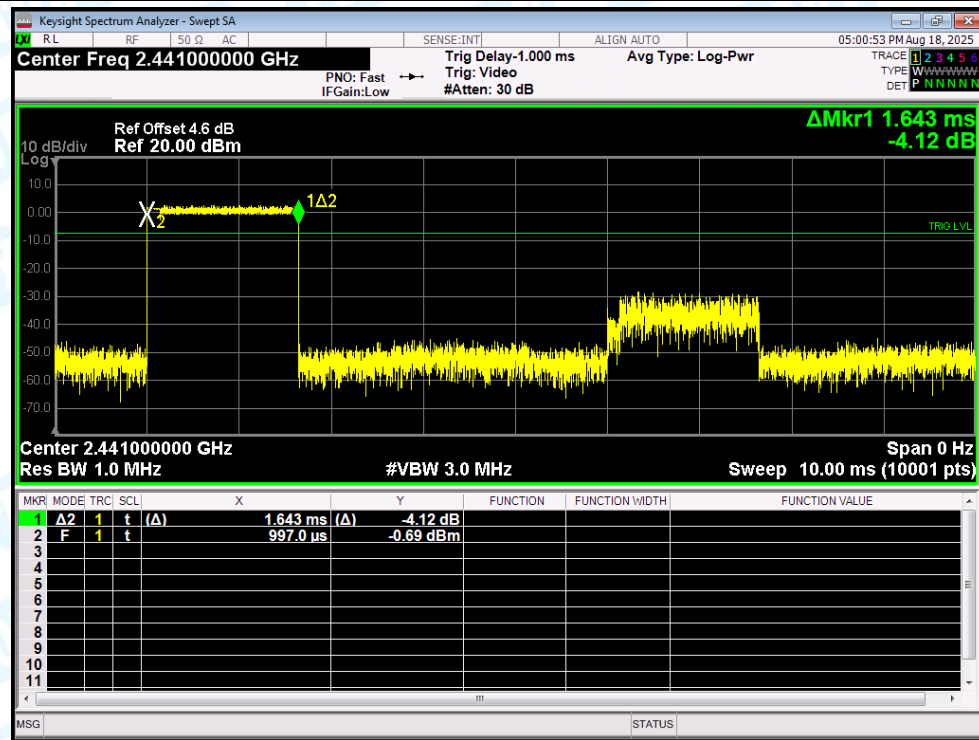
Dwell NVNT 2-DH5 2441MHz Ant1

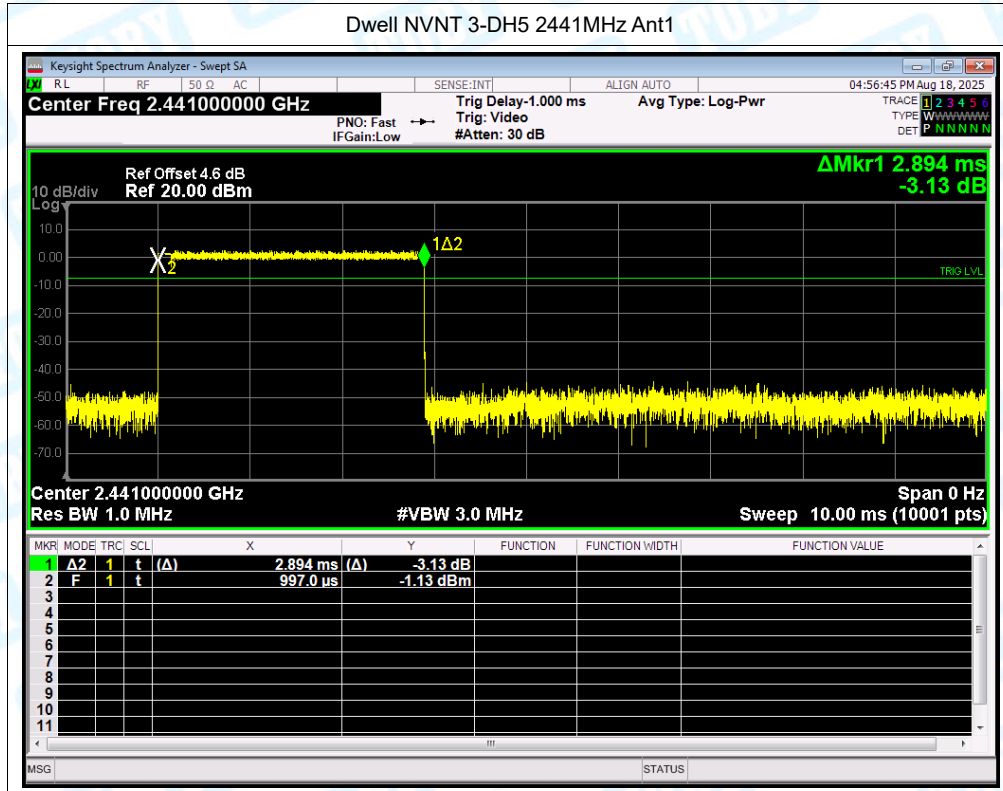


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



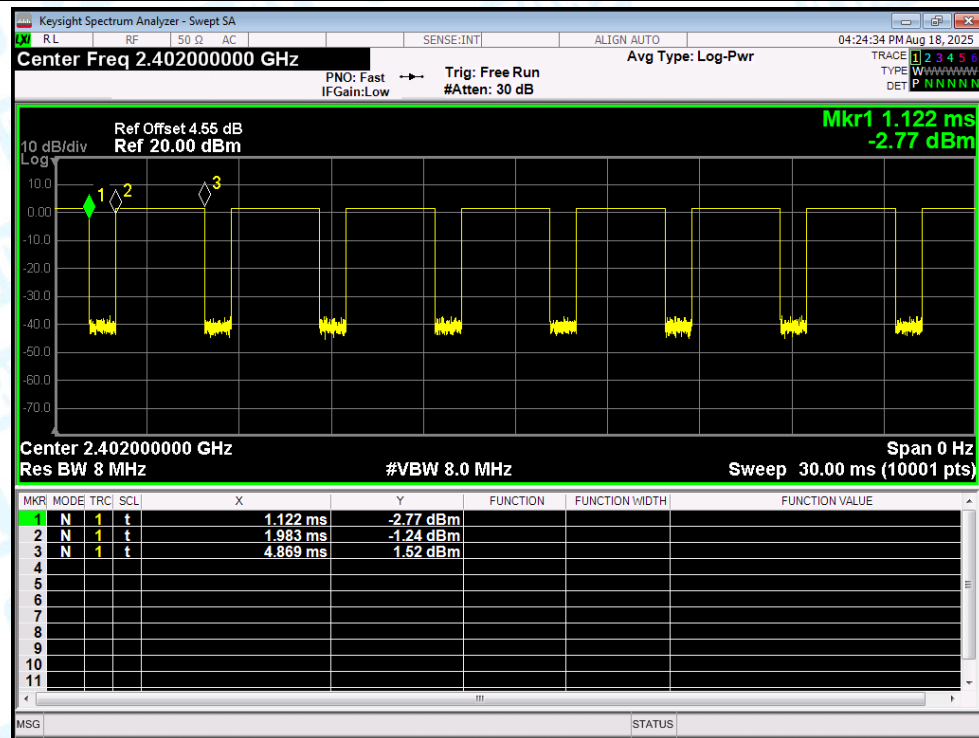


2. Duty Cycle

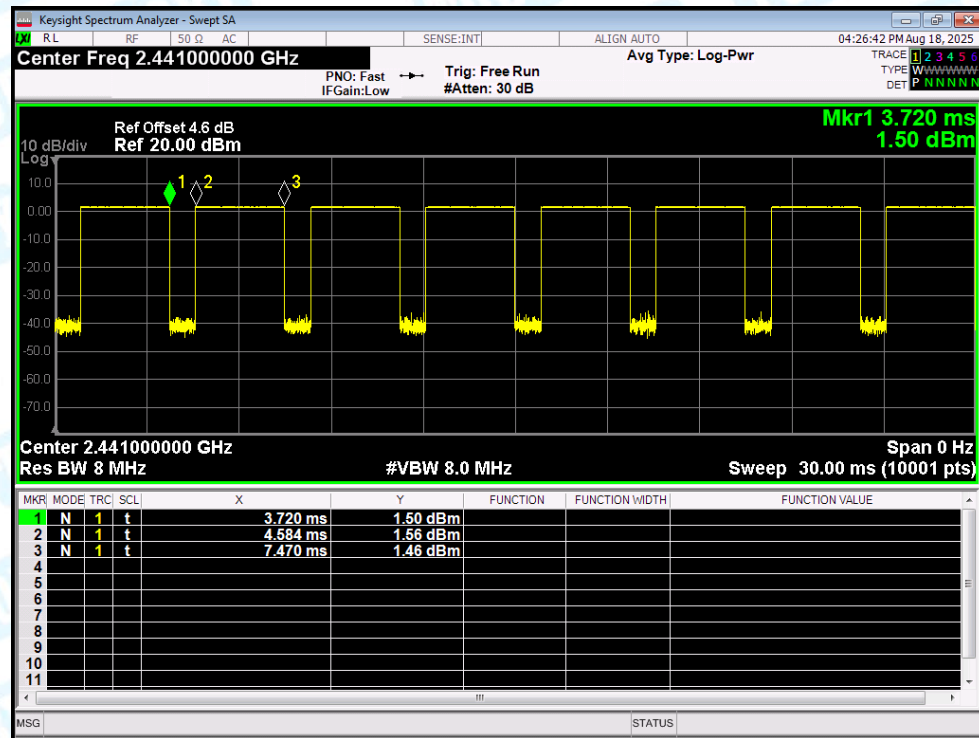
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.02	1.13	0.35
NVNT	1-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2402	Ant1	77.12	1.13	0.35
NVNT	2-DH5	2441	Ant1	77.12	1.13	0.35
NVNT	2-DH5	2480	Ant1	77.12	1.13	0.35
NVNT	3-DH5	2402	Ant1	77.2	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.2	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.12	1.13	0.35

Test Graphs

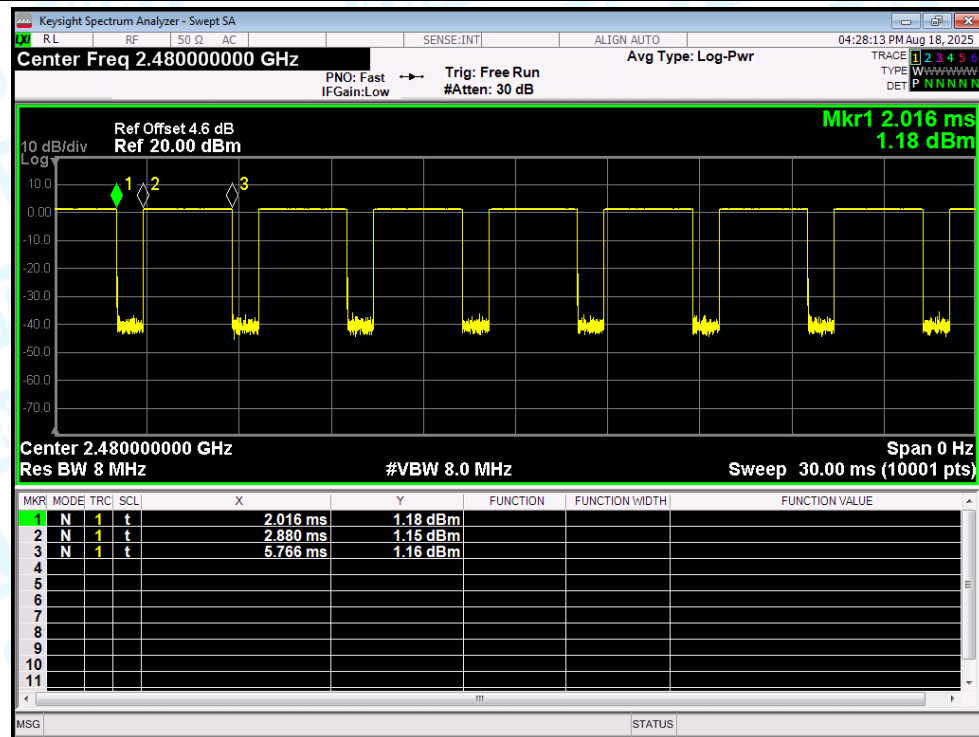
Duty Cycle NVNT 1-DH5 2402MHz Ant1



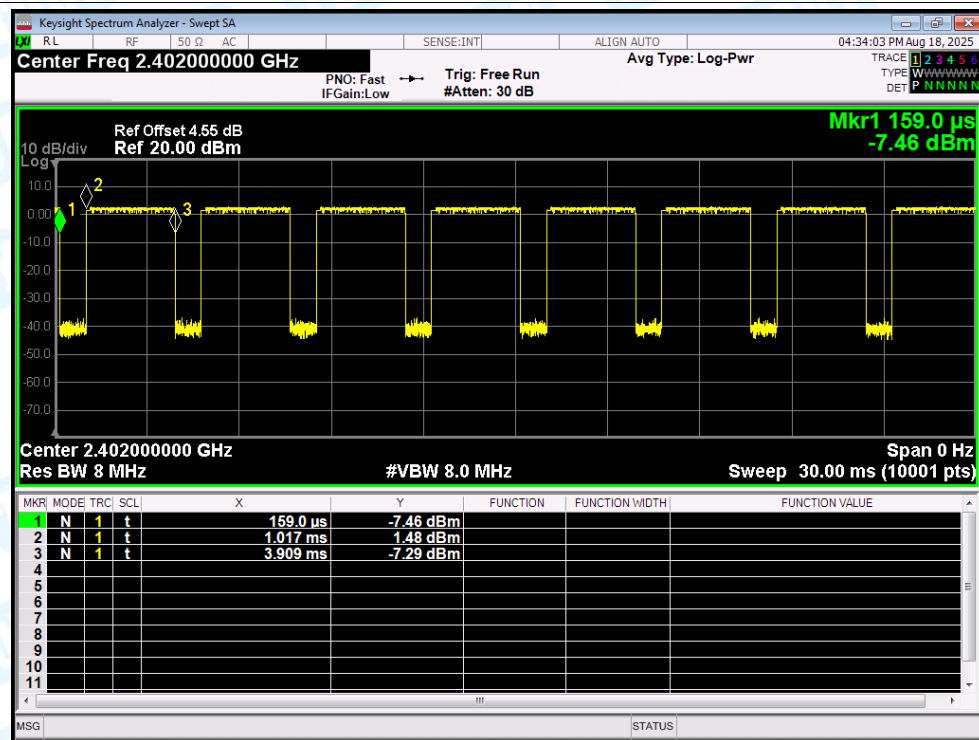
Duty Cycle NVNT 1-DH5 2441MHz Ant1



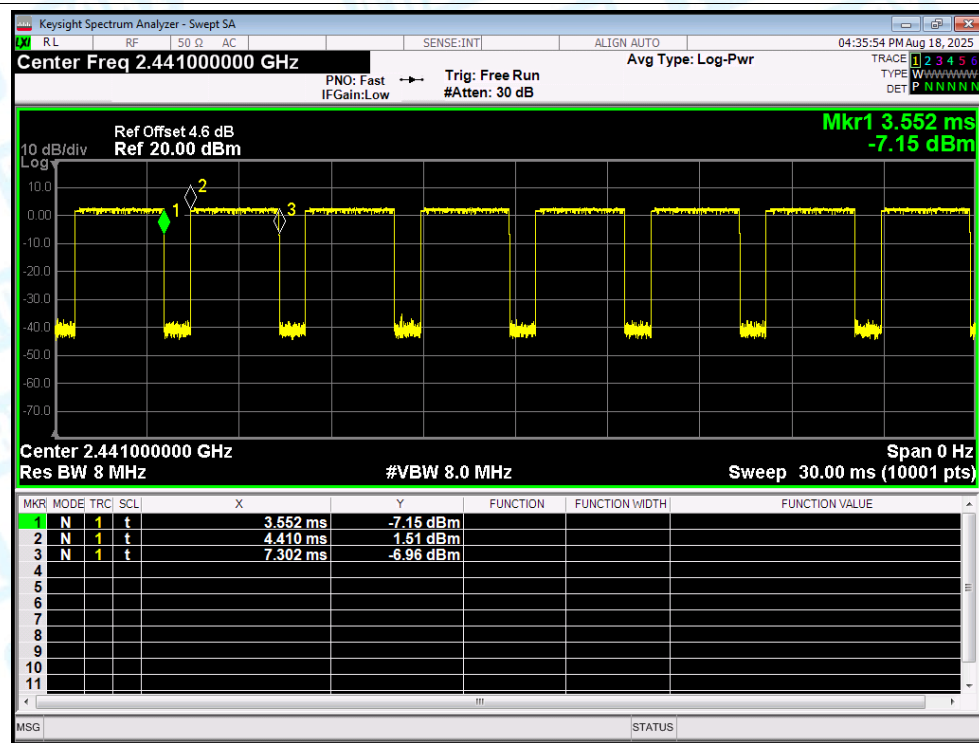
Duty Cycle NVNT 1-DH5 2480MHz Ant1



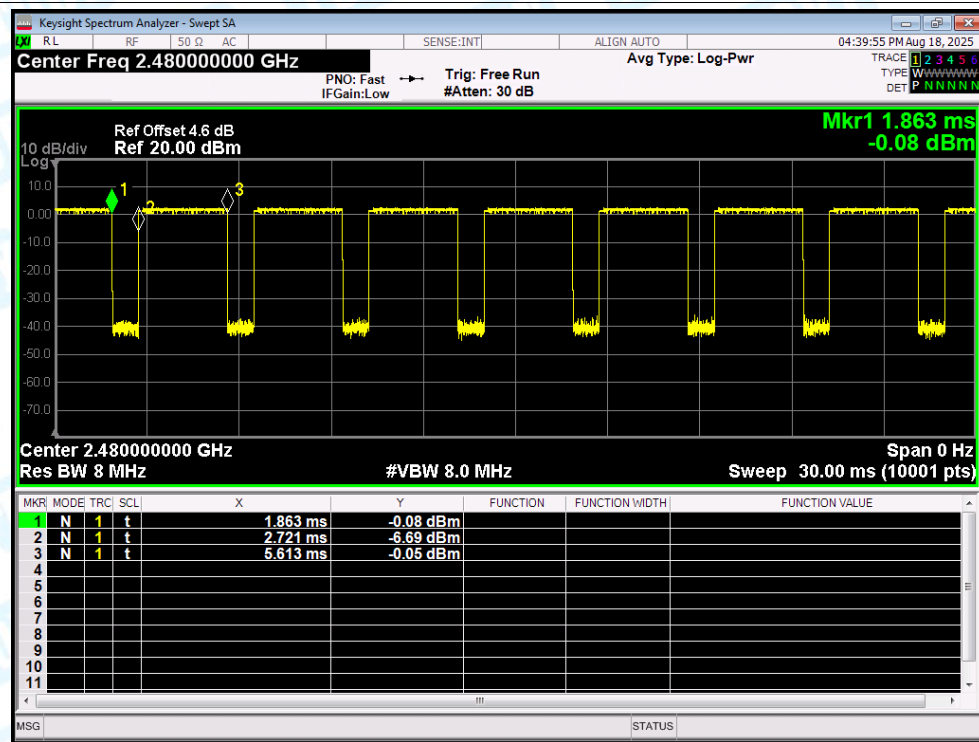
Duty Cycle NVNT 2-DH5 2402MHz Ant1



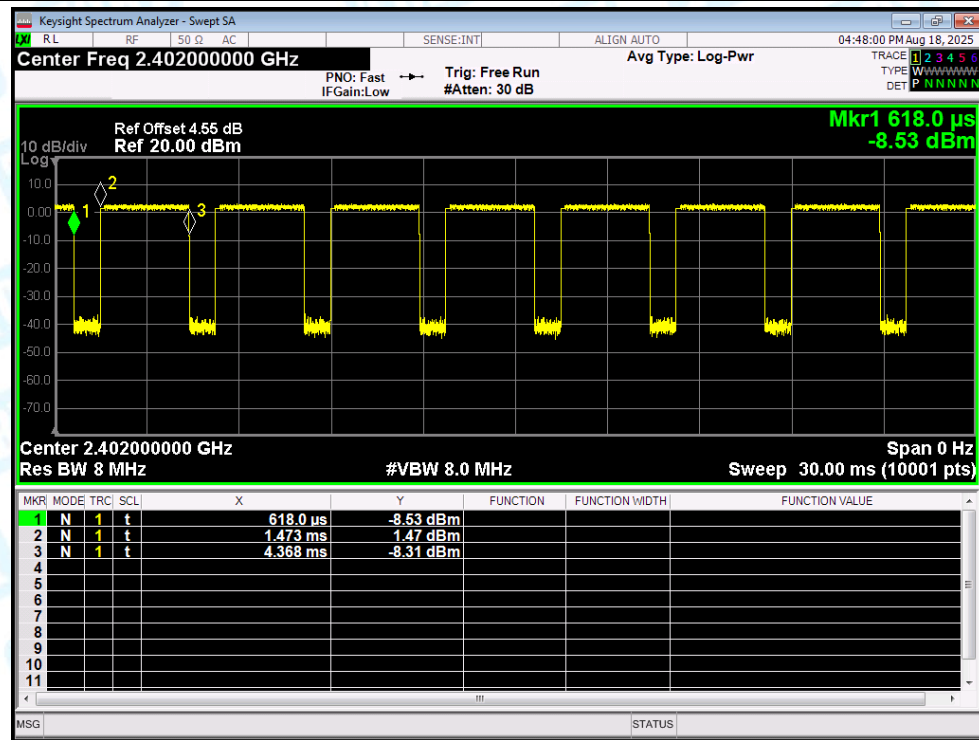
Duty Cycle NVNT 2-DH5 2441MHz Ant1



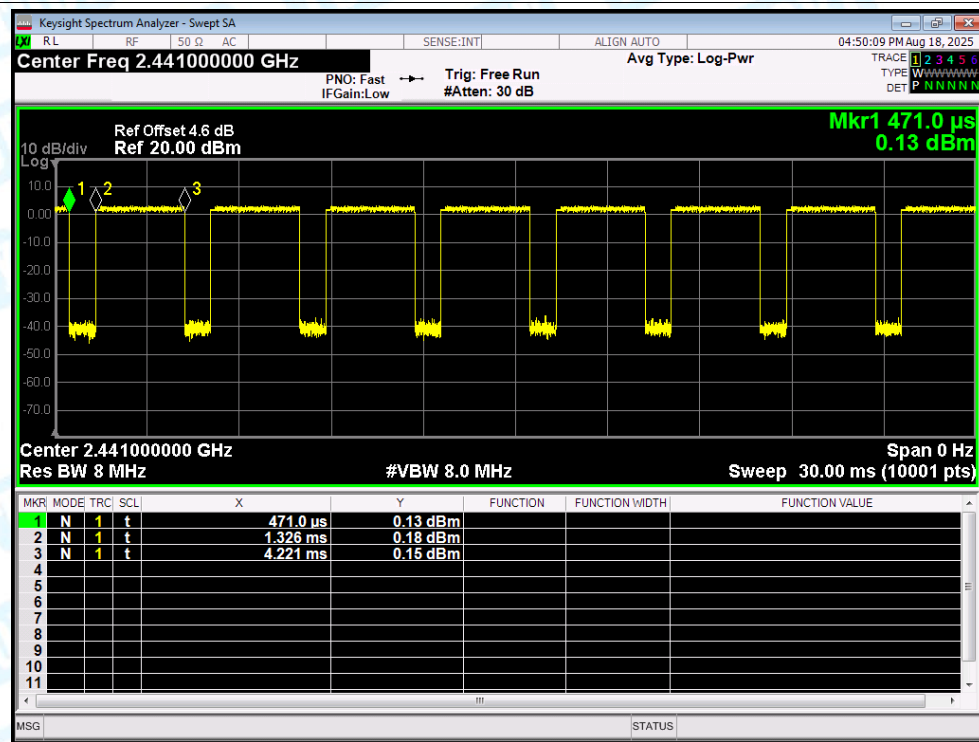
Duty Cycle NVNT 2-DH5 2480MHz Ant1

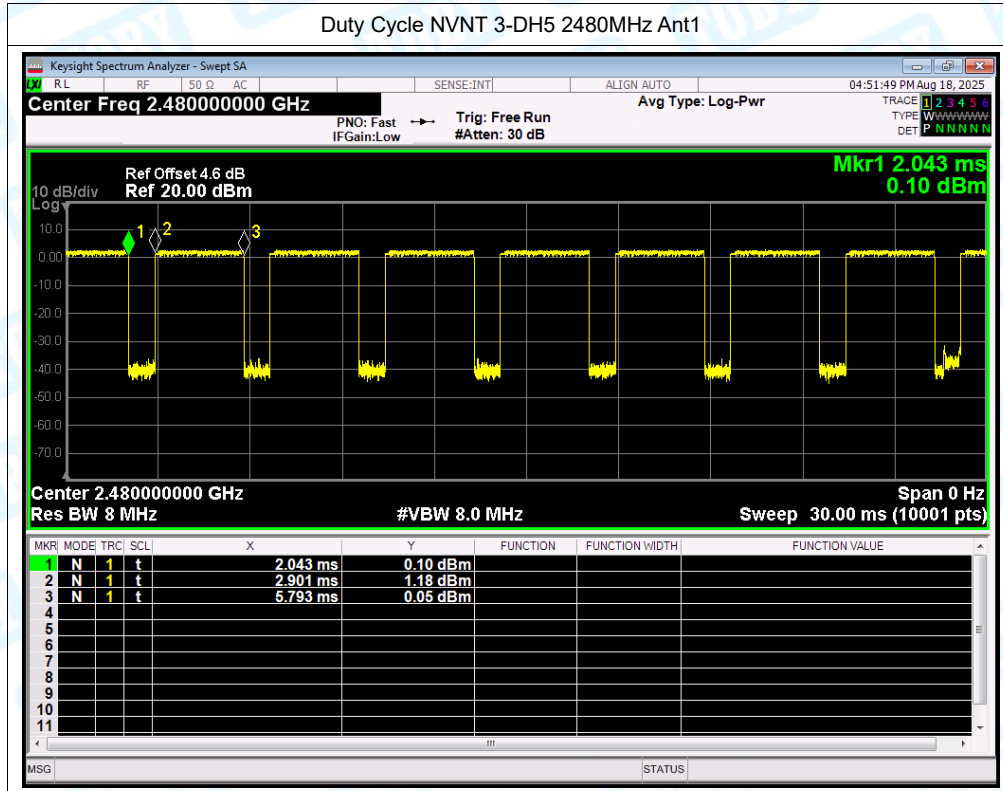


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



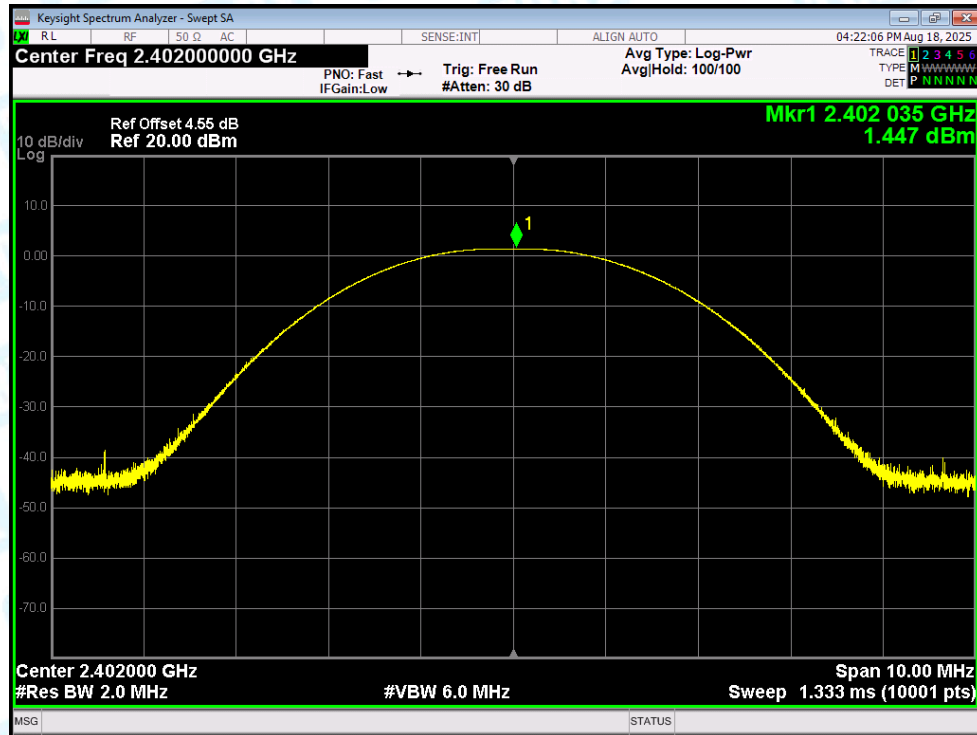


3. Maximum Conducted Output Power

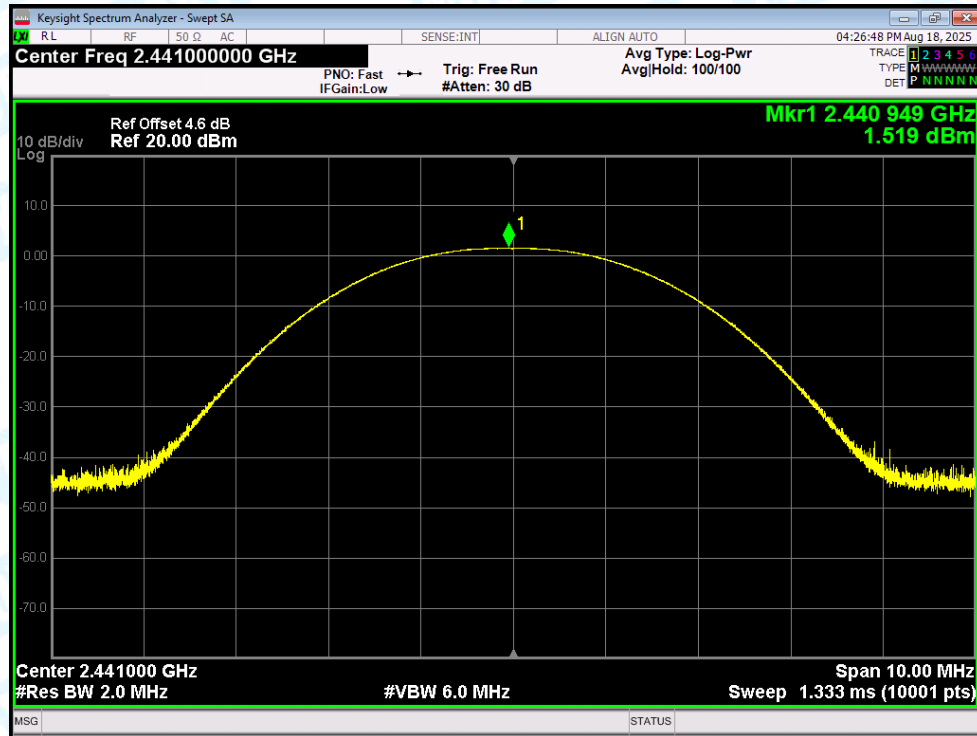
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.447	21	Pass
NVNT	1-DH5	2441	Ant1	1.519	21	Pass
NVNT	1-DH5	2480	Ant1	1.192	21	Pass
NVNT	2-DH5	2402	Ant1	2.336	21	Pass
NVNT	2-DH5	2441	Ant1	2.393	21	Pass
NVNT	2-DH5	2480	Ant1	2.056	21	Pass
NVNT	3-DH5	2402	Ant1	2.796	21	Pass
NVNT	3-DH5	2441	Ant1	2.847	21	Pass
NVNT	3-DH5	2480	Ant1	2.438	21	Pass

Test Graphs

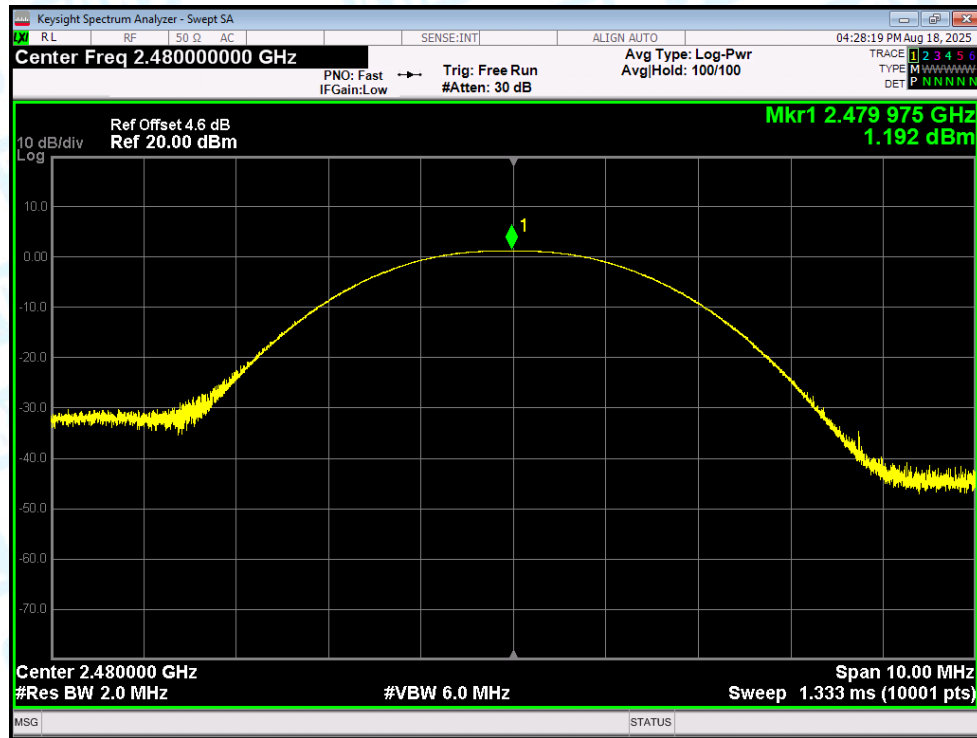
Power NVNT 1-DH5 2402MHz Ant1



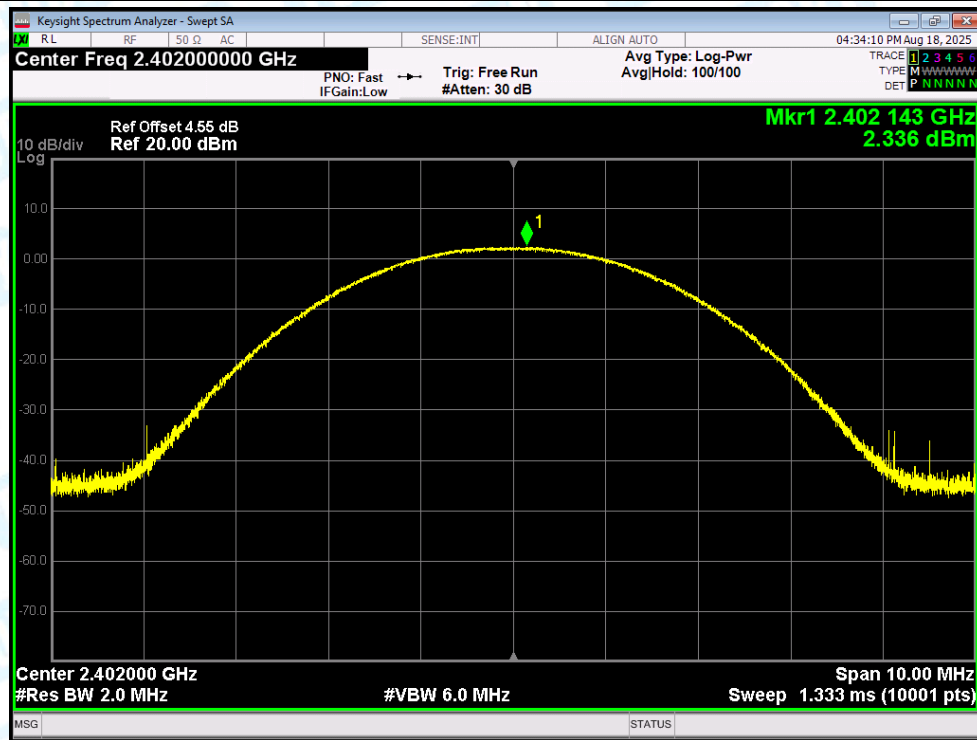
Power NVNT 1-DH5 2441MHz Ant1



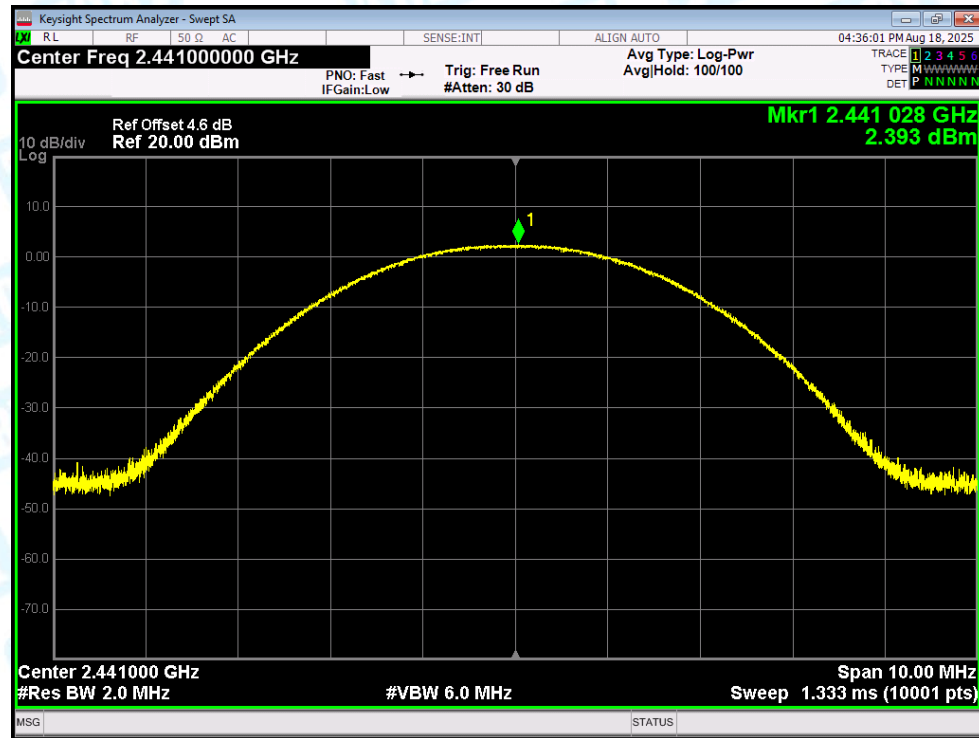
Power NVNT 1-DH5 2480MHz Ant1



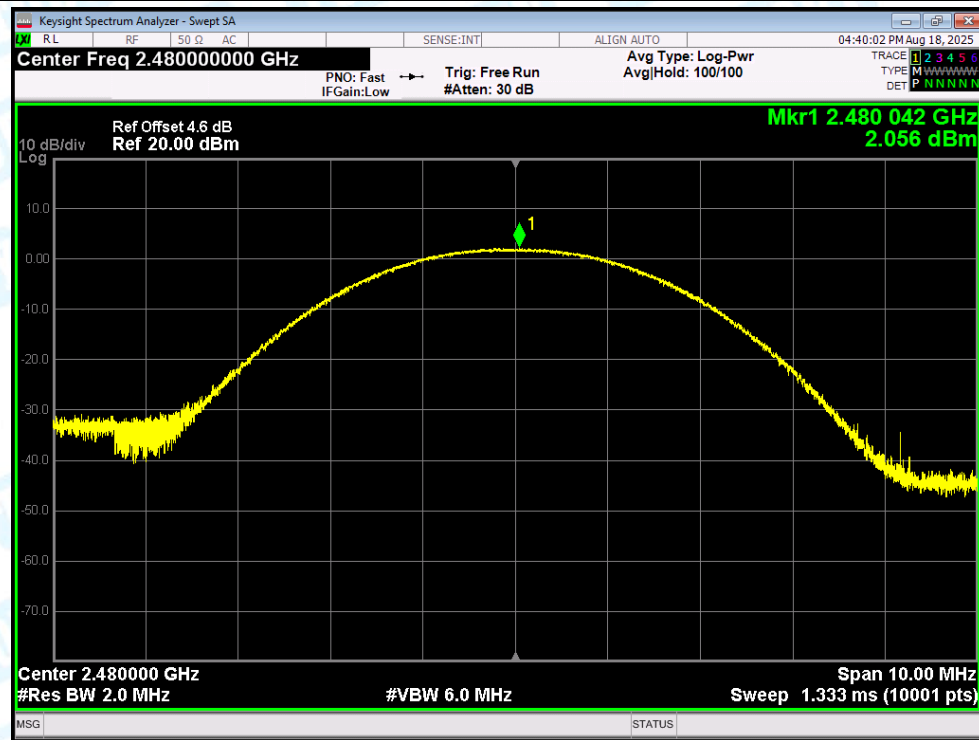
Power NVNT 2-DH5 2402MHz Ant1



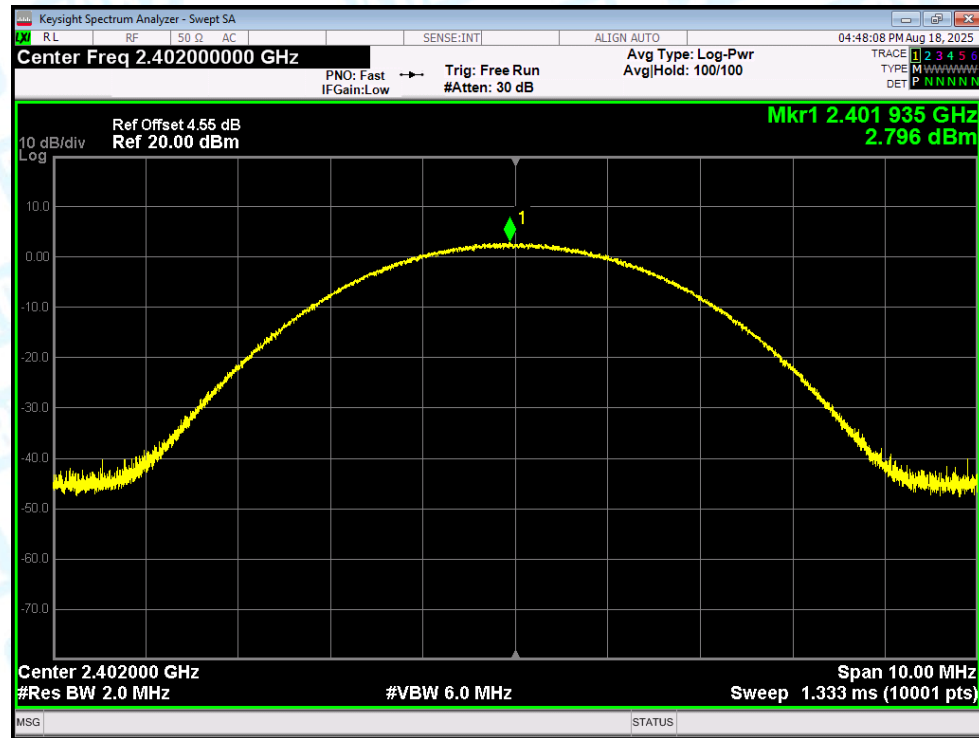
Power NVNT 2-DH5 2441MHz Ant1



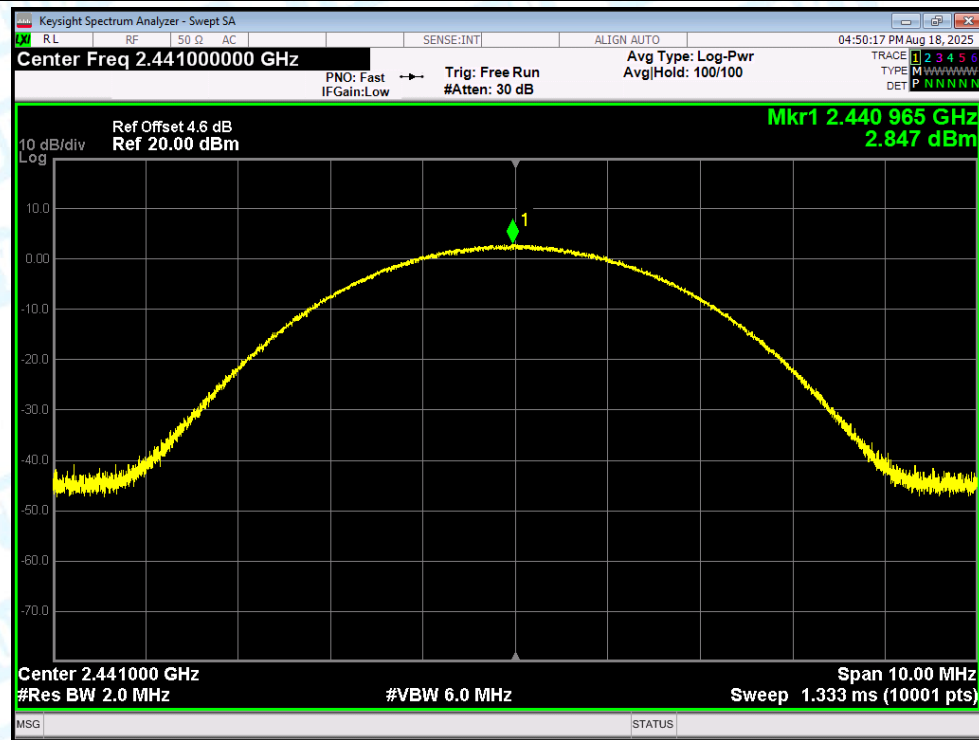
Power NVNT 2-DH5 2480MHz Ant1

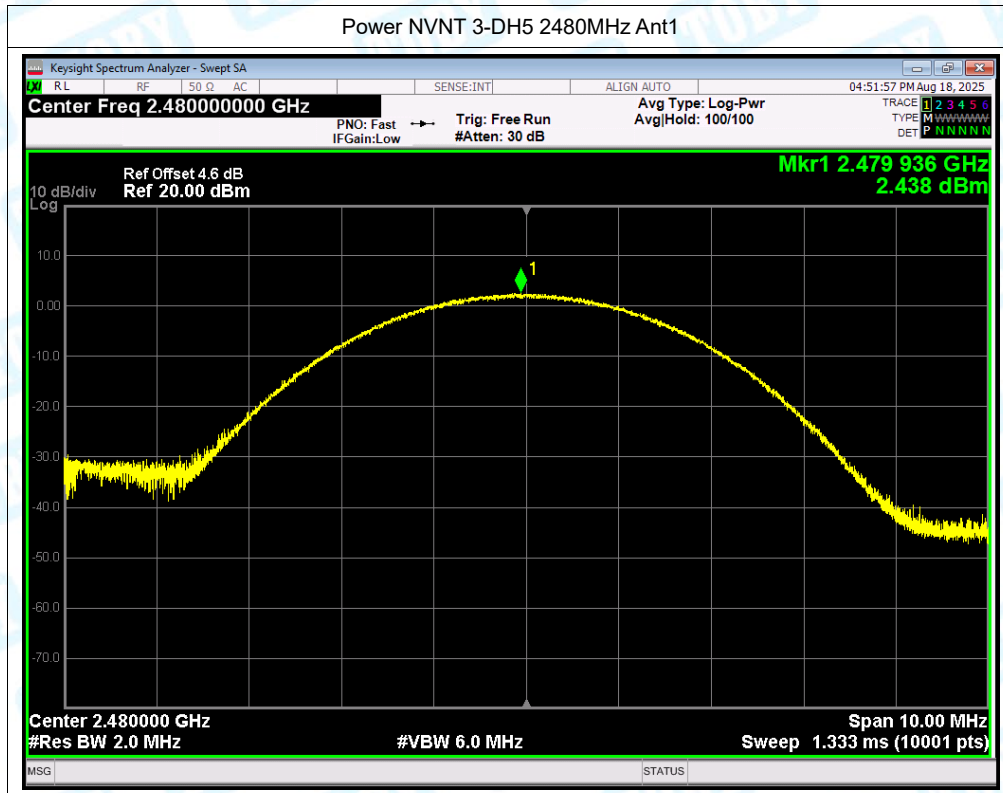


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



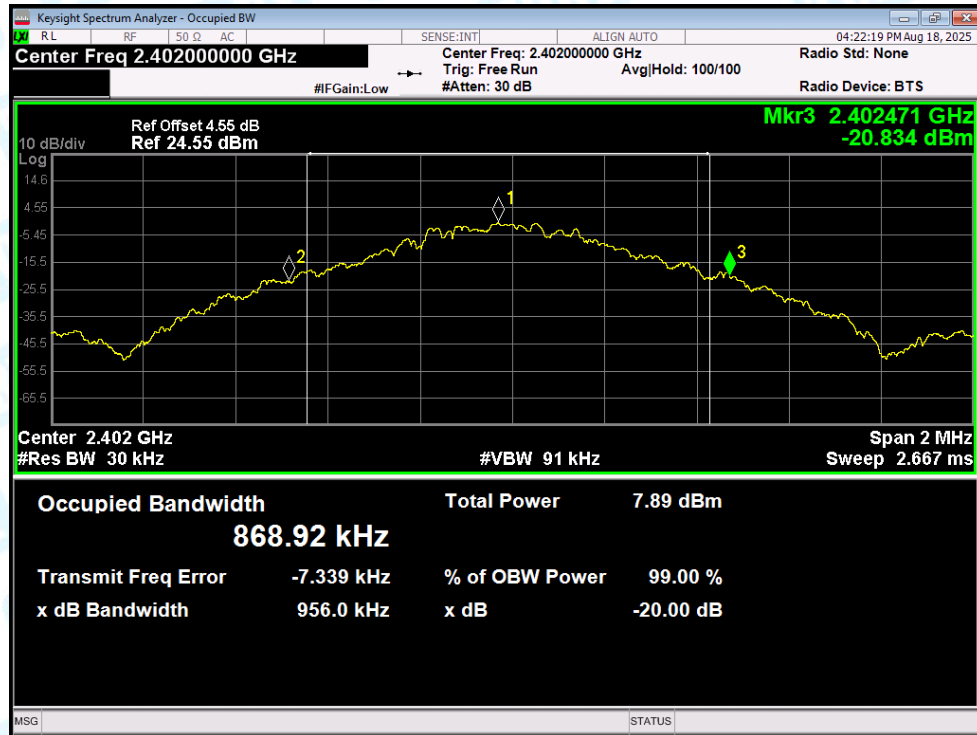


4. -20dB Bandwidth

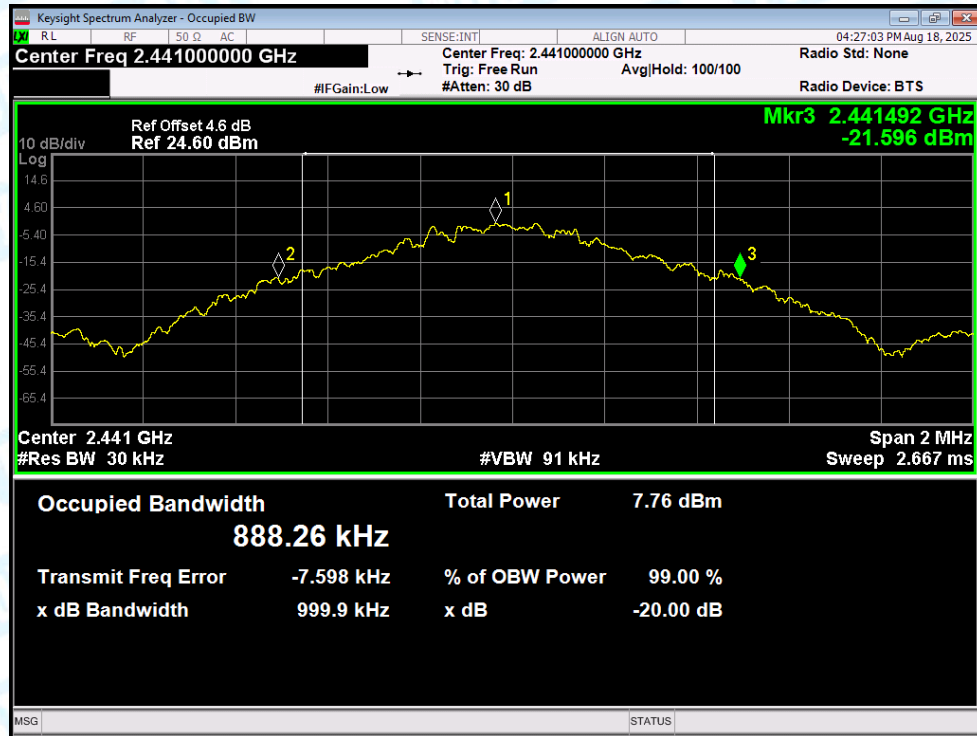
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.96	Pass
NVNT	1-DH5	2441	Ant1	1	Pass
NVNT	1-DH5	2480	Ant1	0.94	Pass
NVNT	2-DH5	2402	Ant1	1.28	Pass
NVNT	2-DH5	2441	Ant1	1.29	Pass
NVNT	2-DH5	2480	Ant1	1.3	Pass
NVNT	3-DH5	2402	Ant1	1.29	Pass
NVNT	3-DH5	2441	Ant1	1.29	Pass
NVNT	3-DH5	2480	Ant1	1.29	Pass

Test Graphs

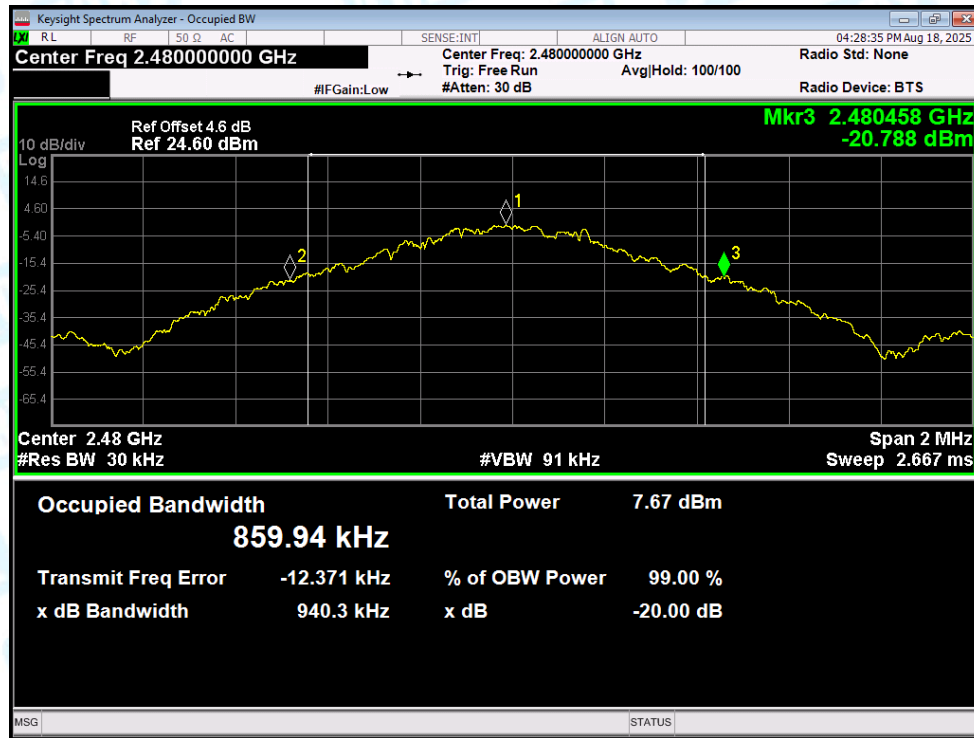
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



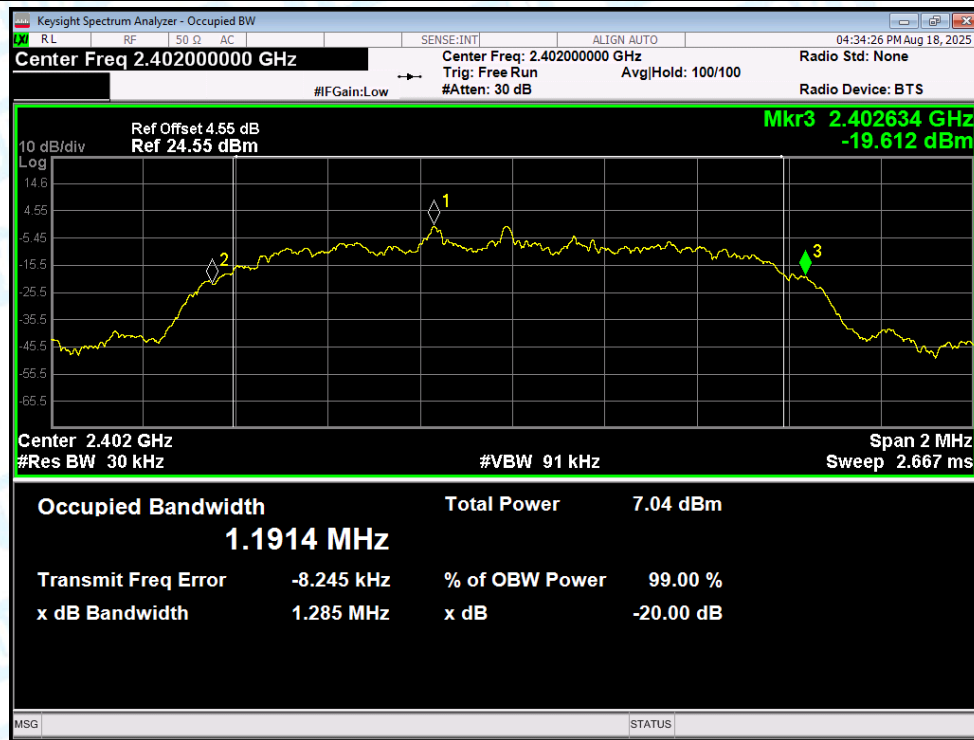
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



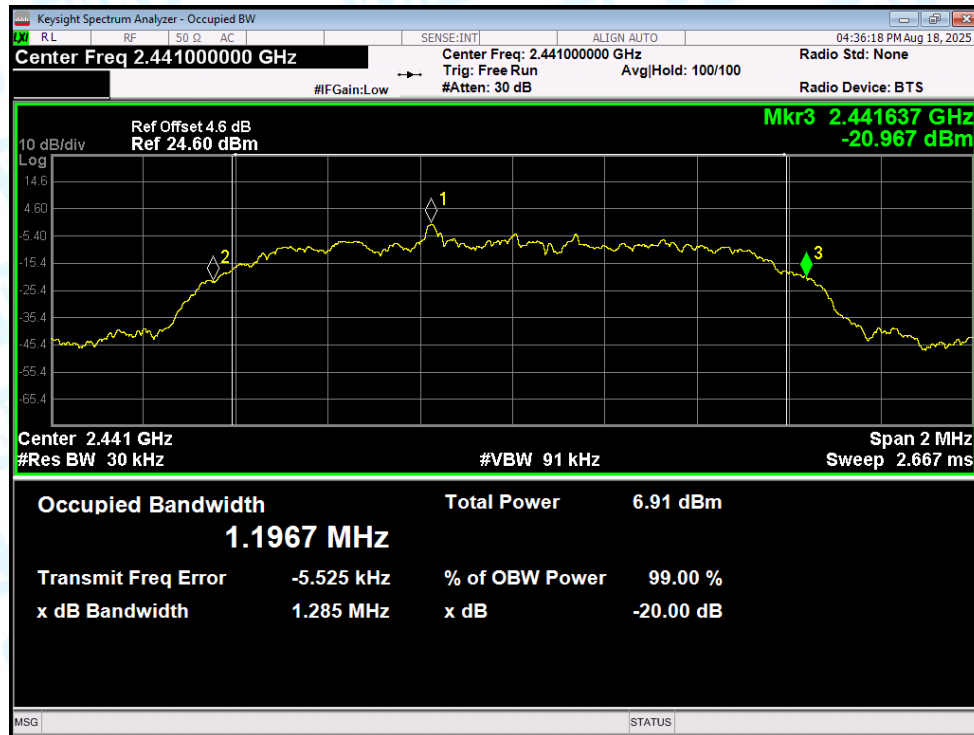
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



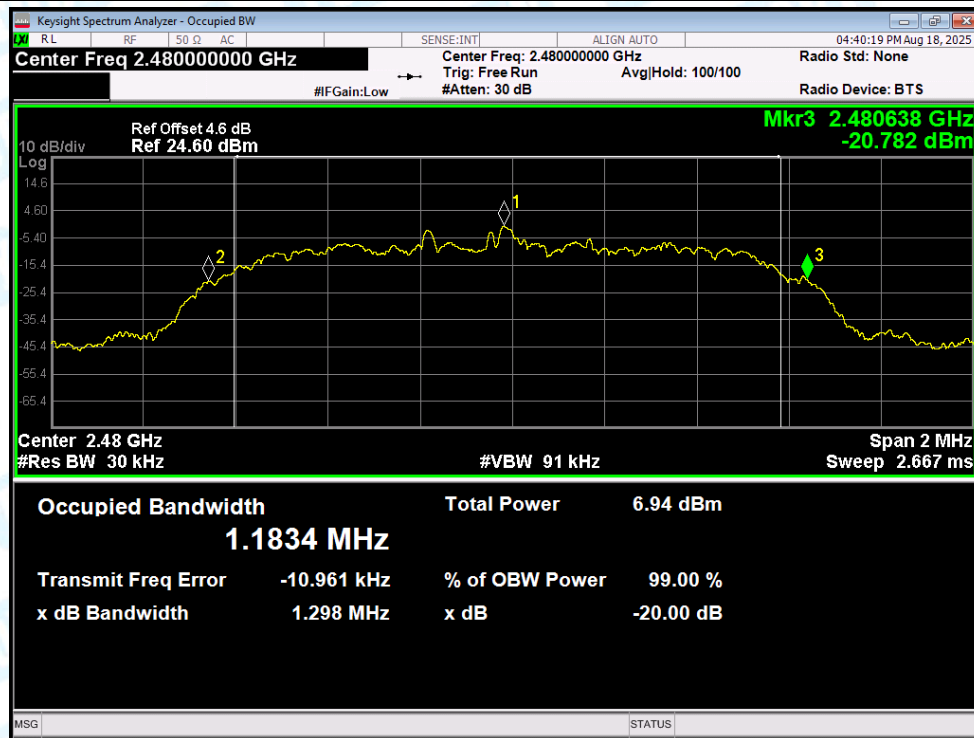
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



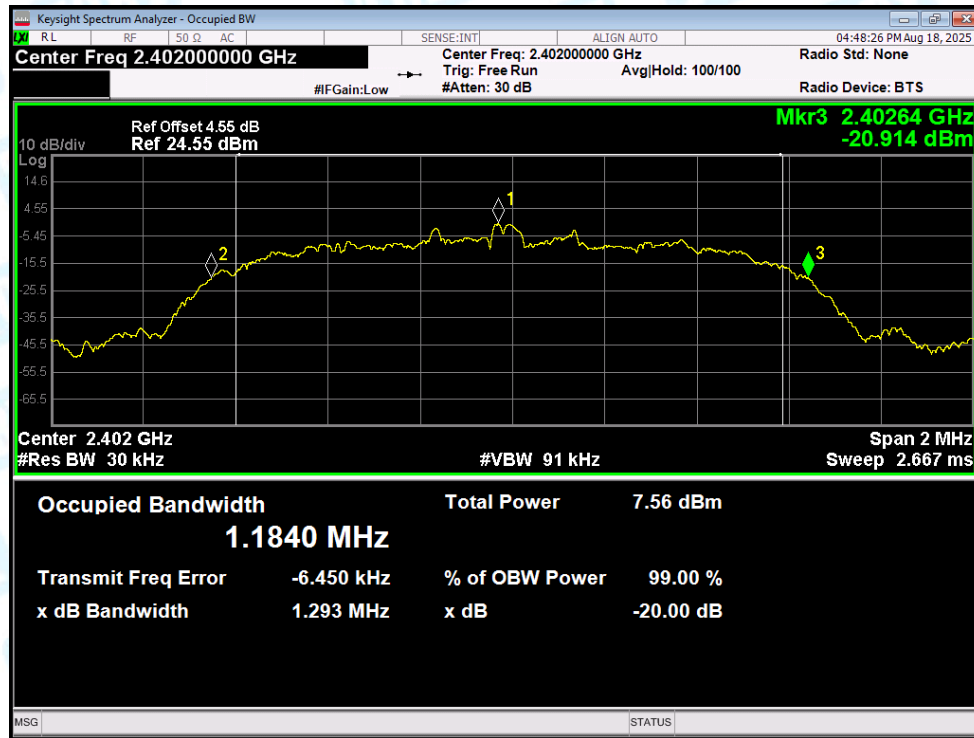
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



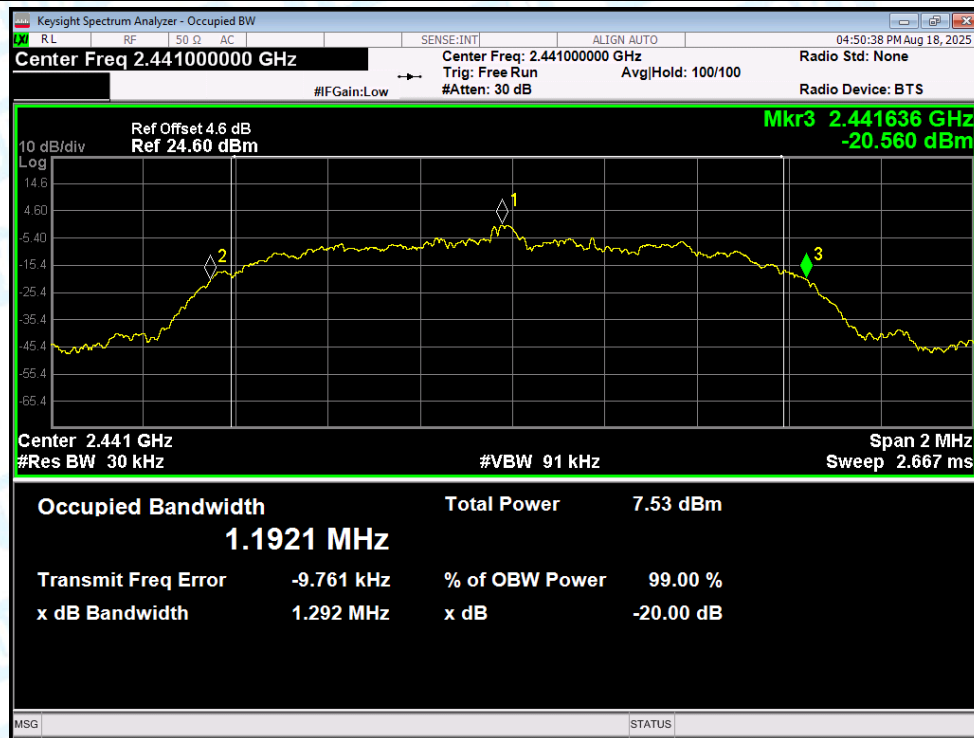
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

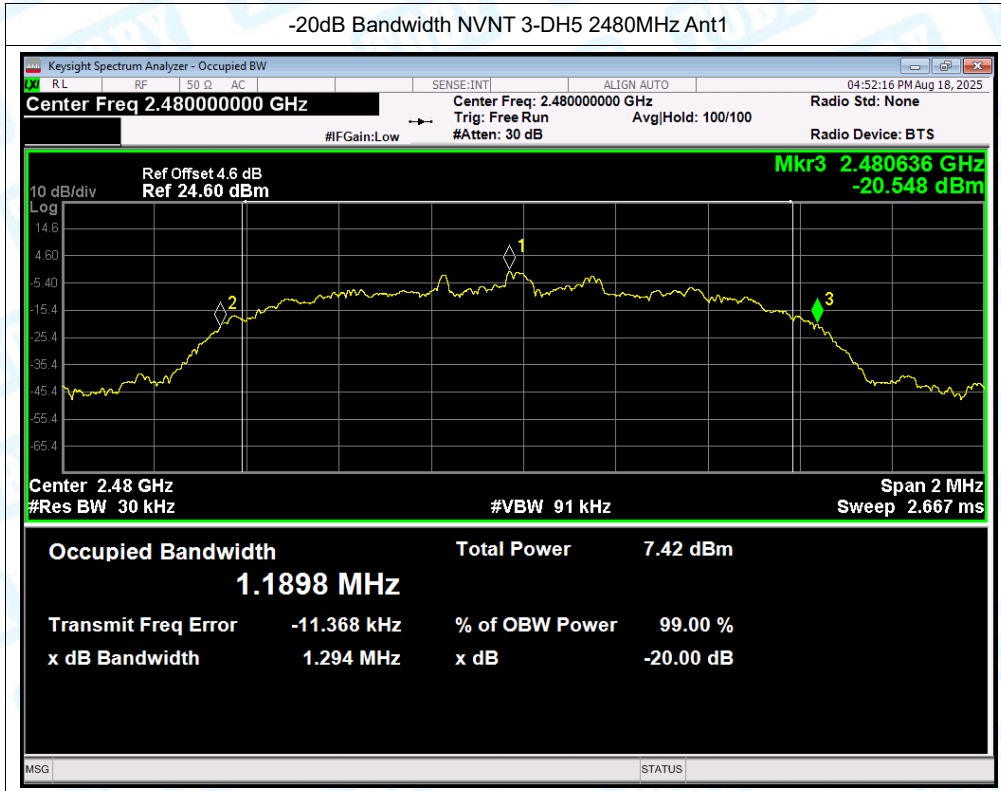


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



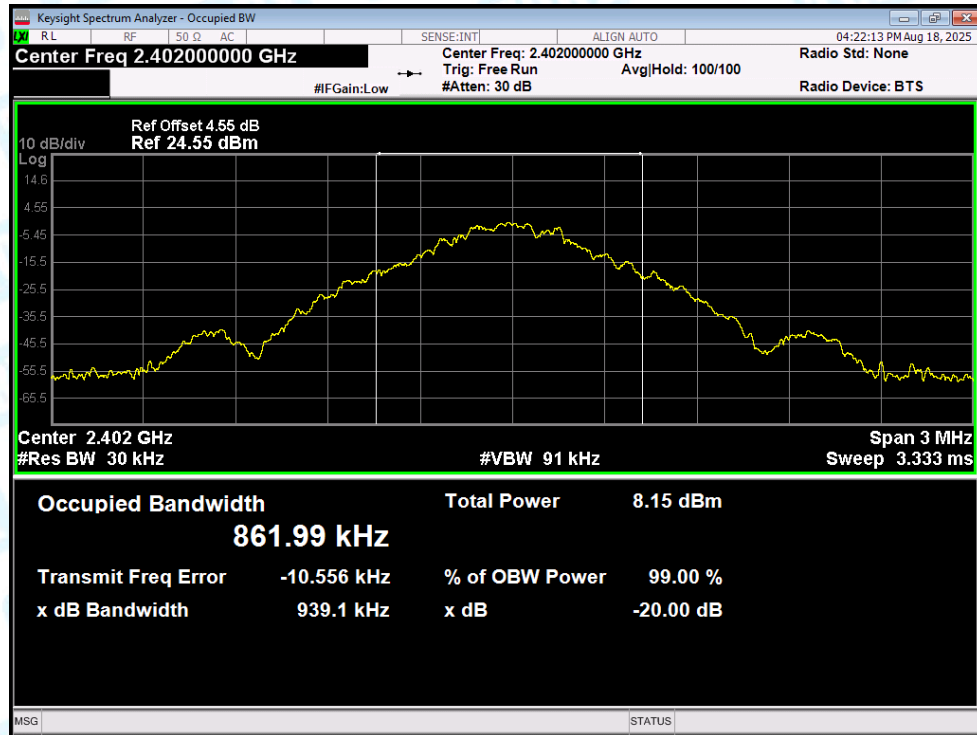


5. Occupied Channel Bandwidth

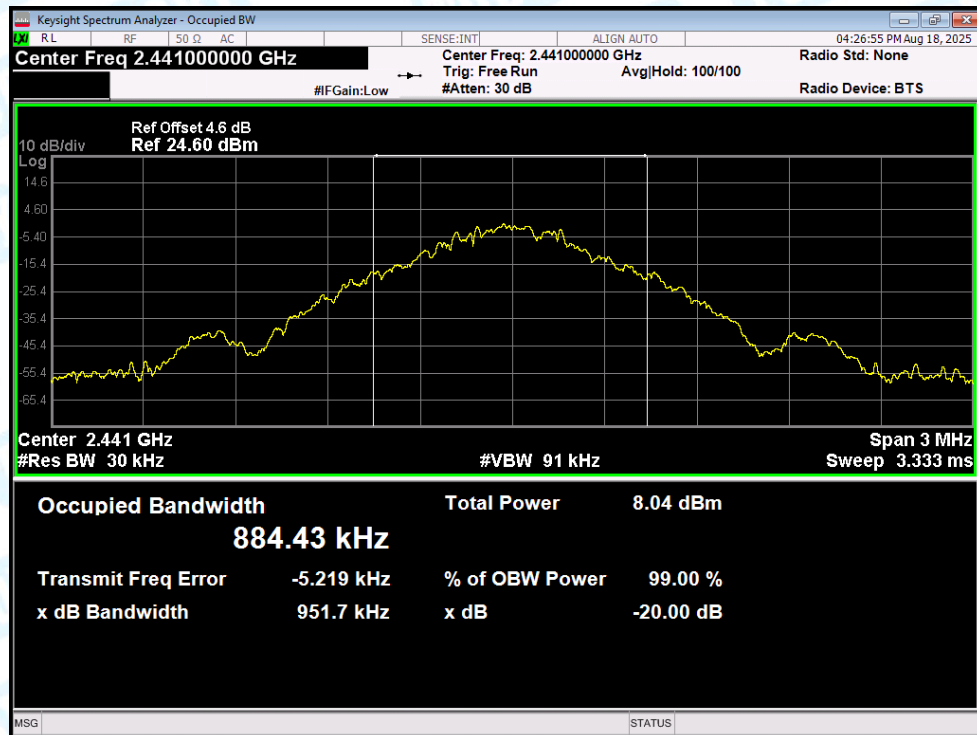
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.862
NVNT	1-DH5	2441	Ant1	0.884
NVNT	1-DH5	2480	Ant1	0.86
NVNT	2-DH5	2402	Ant1	1.187
NVNT	2-DH5	2441	Ant1	1.185
NVNT	2-DH5	2480	Ant1	1.196
NVNT	3-DH5	2402	Ant1	1.184
NVNT	3-DH5	2441	Ant1	1.199
NVNT	3-DH5	2480	Ant1	1.207

Test Graphs

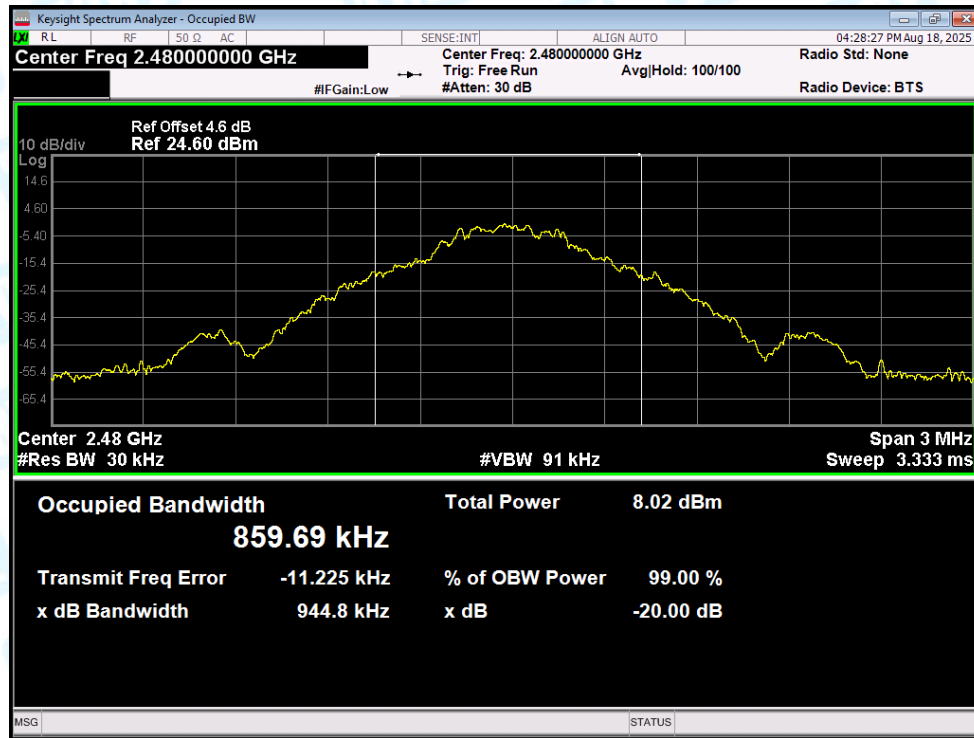
OBW NVNT 1-DH5 2402MHz Ant1



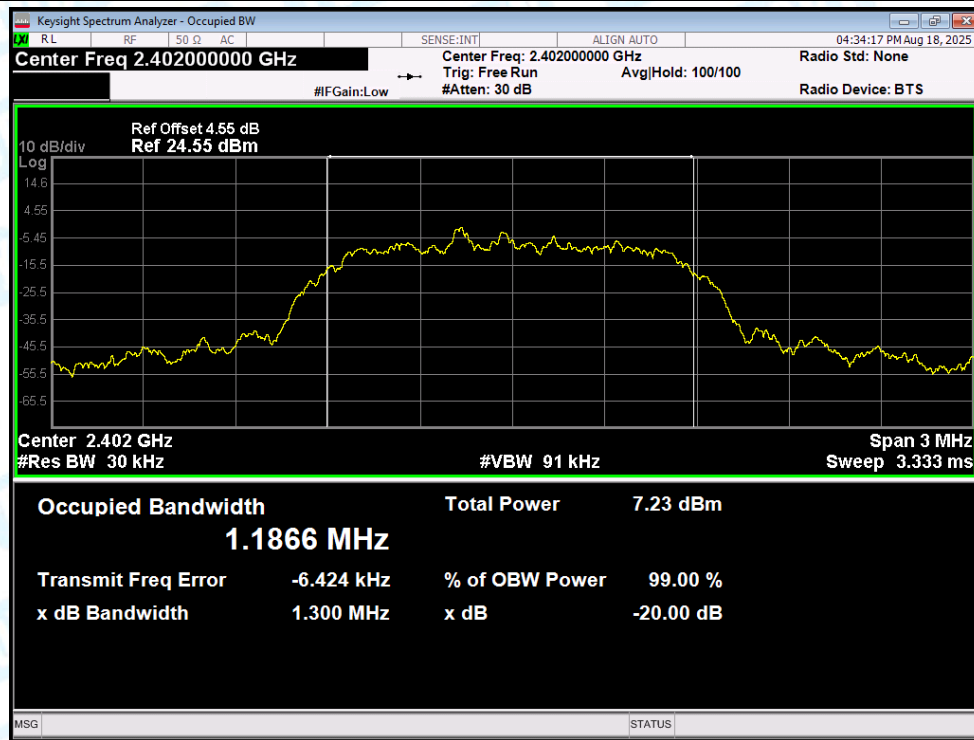
OBW NVNT 1-DH5 2441MHz Ant1



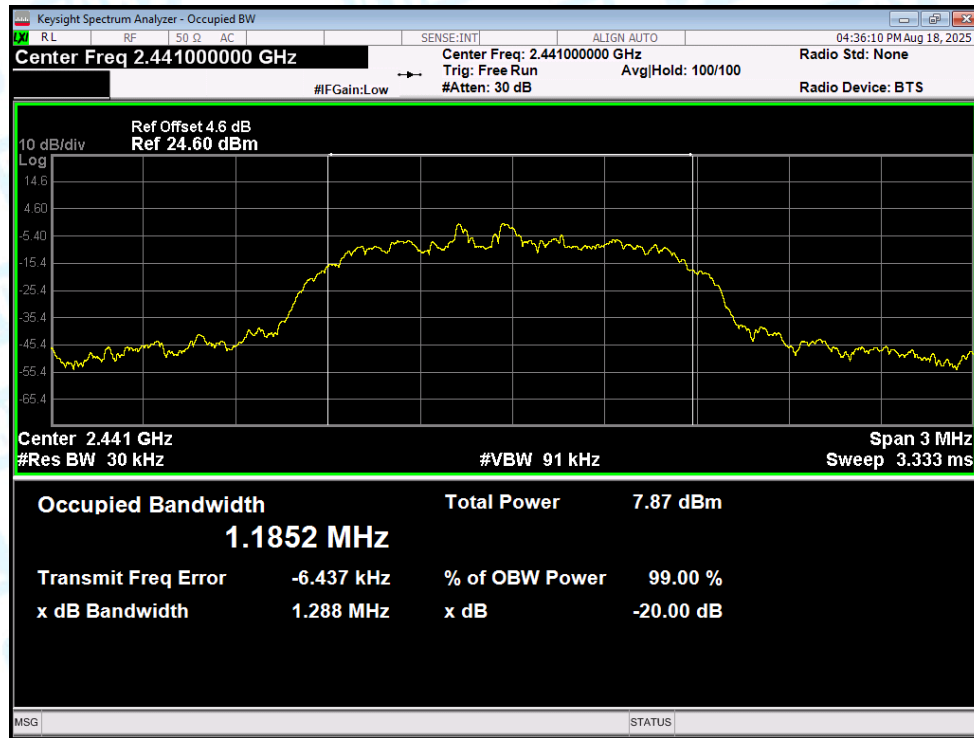
OBW NVNT 1-DH5 2480MHz Ant1



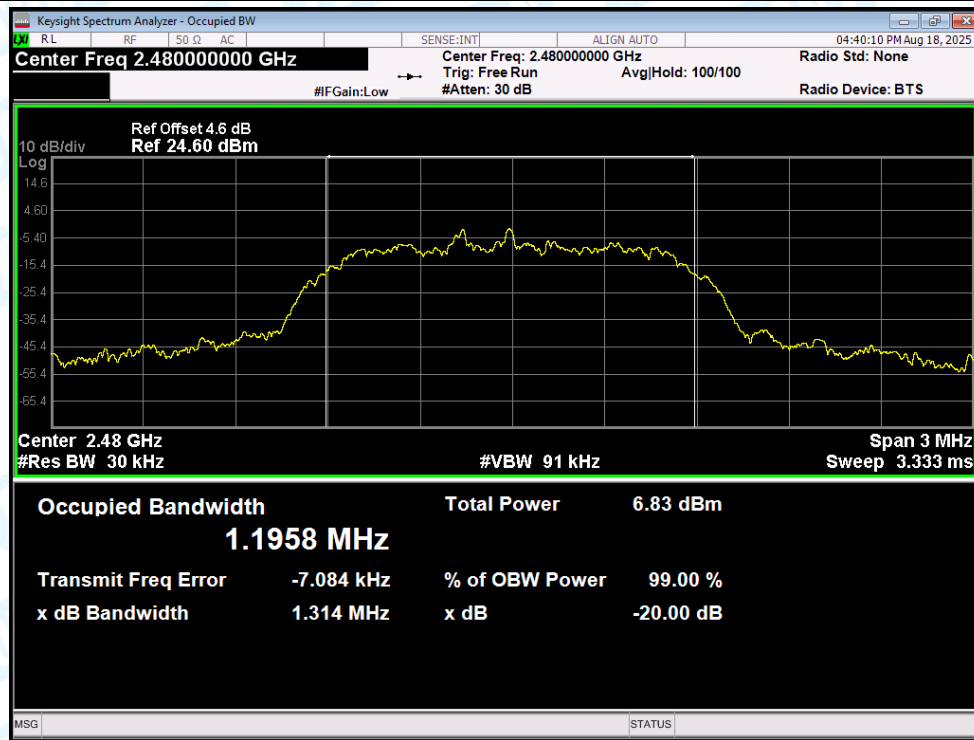
OBW NVNT 2-DH5 2402MHz Ant1



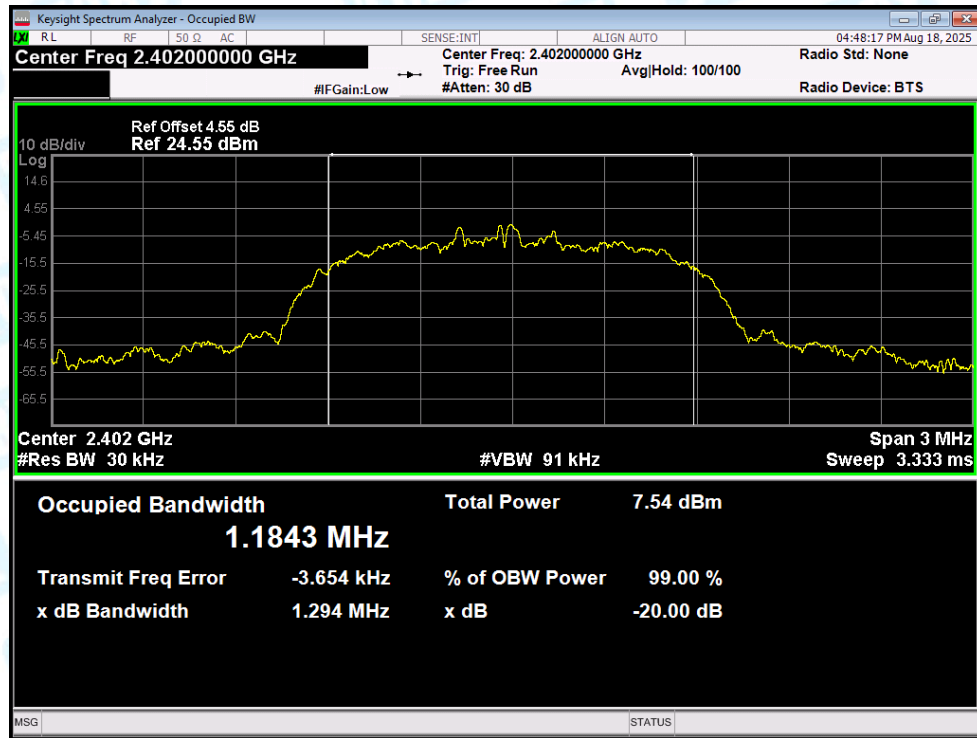
OBW NVNT 2-DH5 2441MHz Ant1



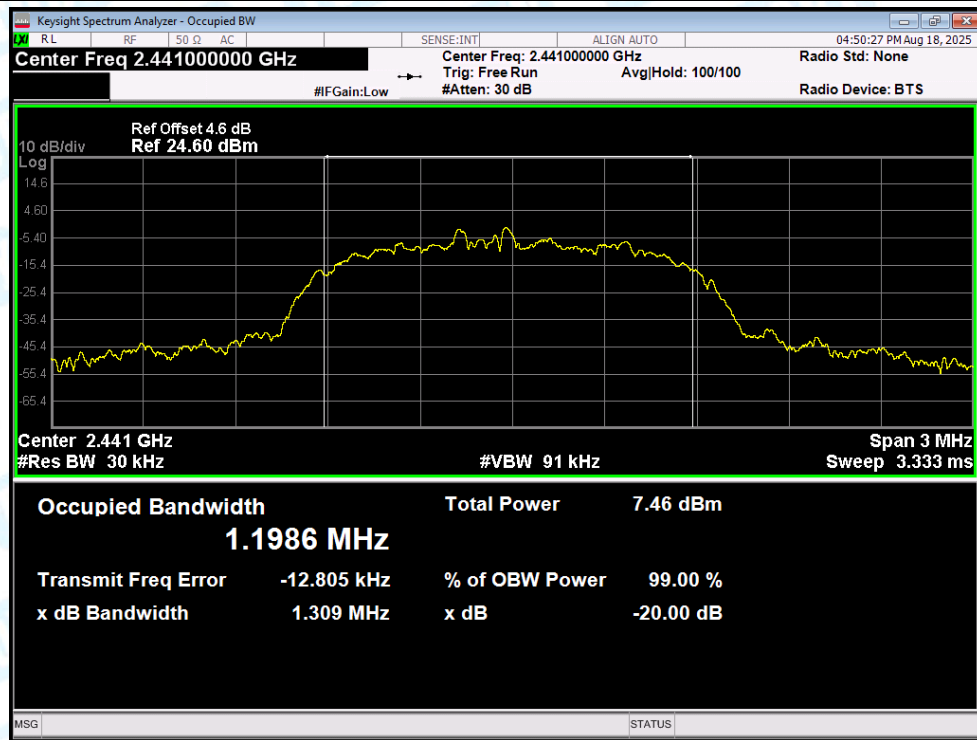
OBW NVNT 2-DH5 2480MHz Ant1

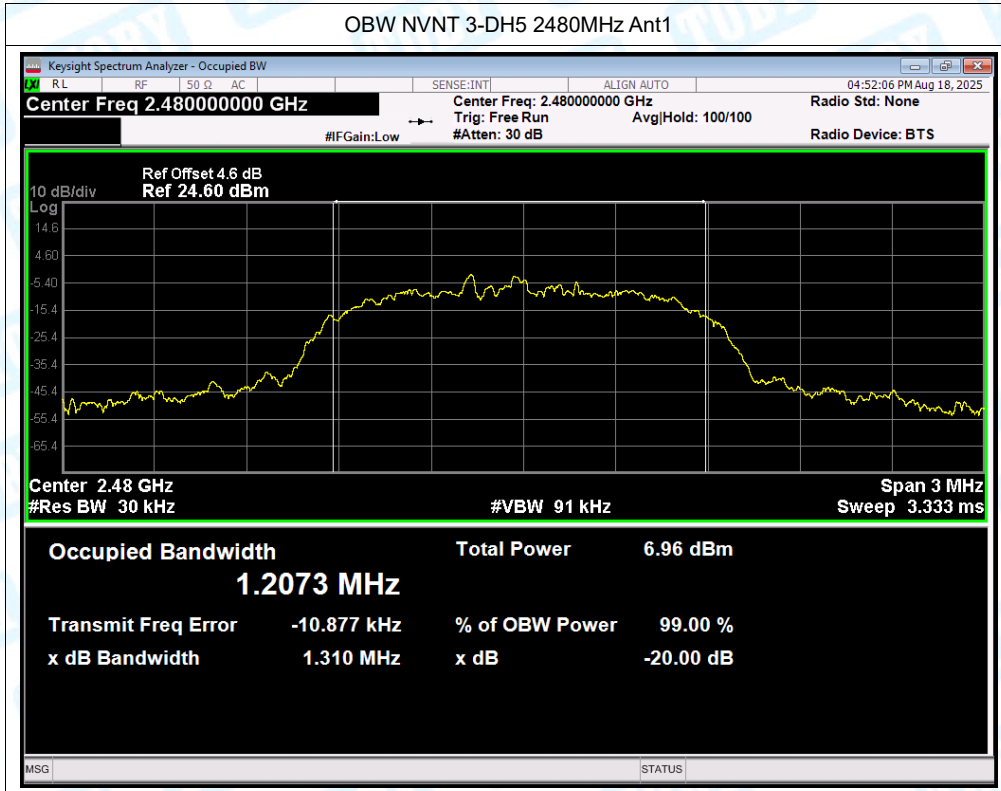


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



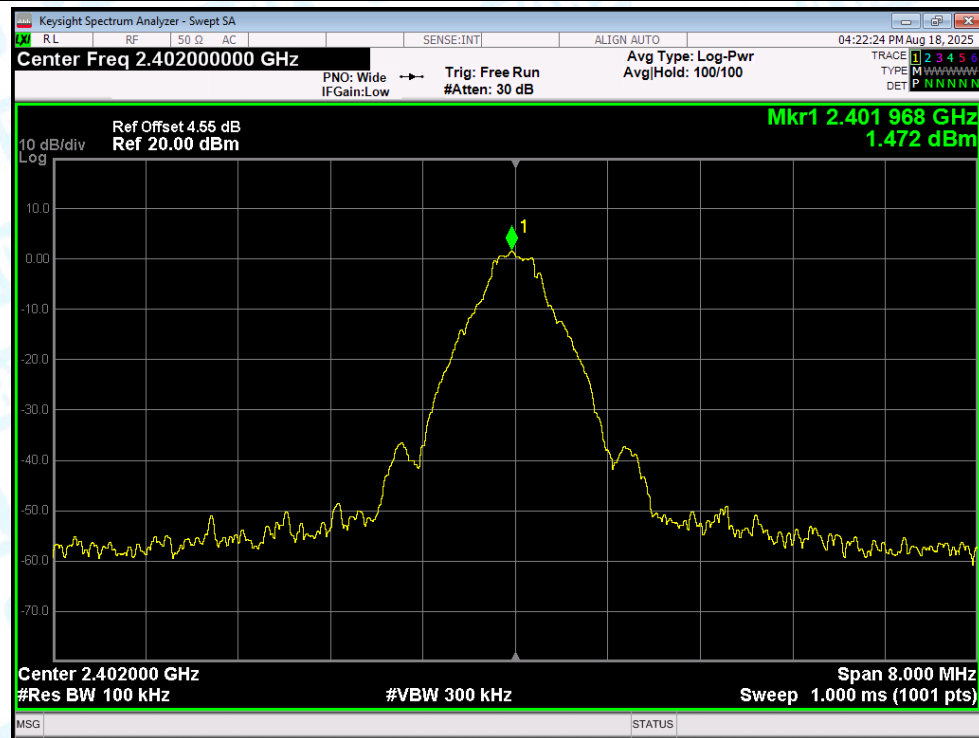


6. Band Edge

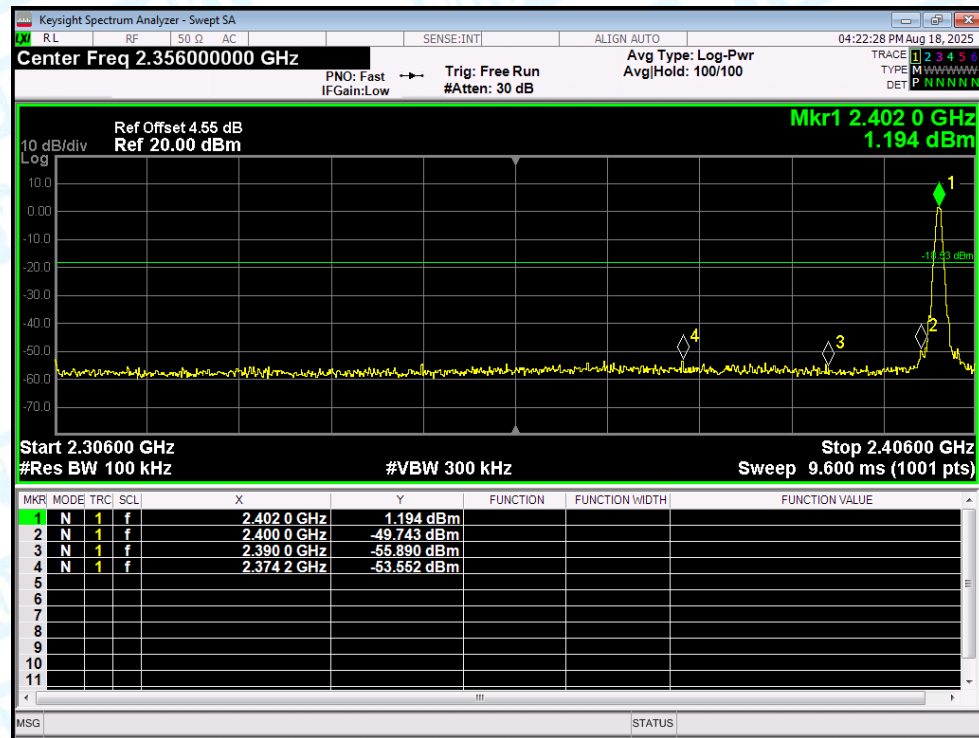
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.02	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.77	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.34	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.43	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.55	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.36	-20	Pass

Test Graphs

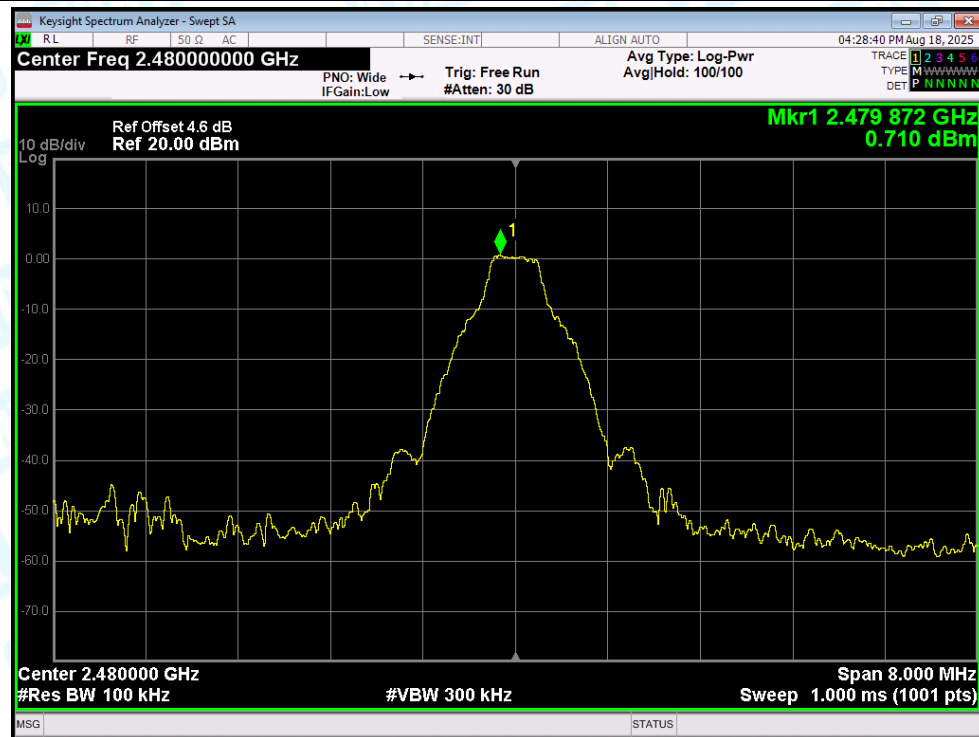
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



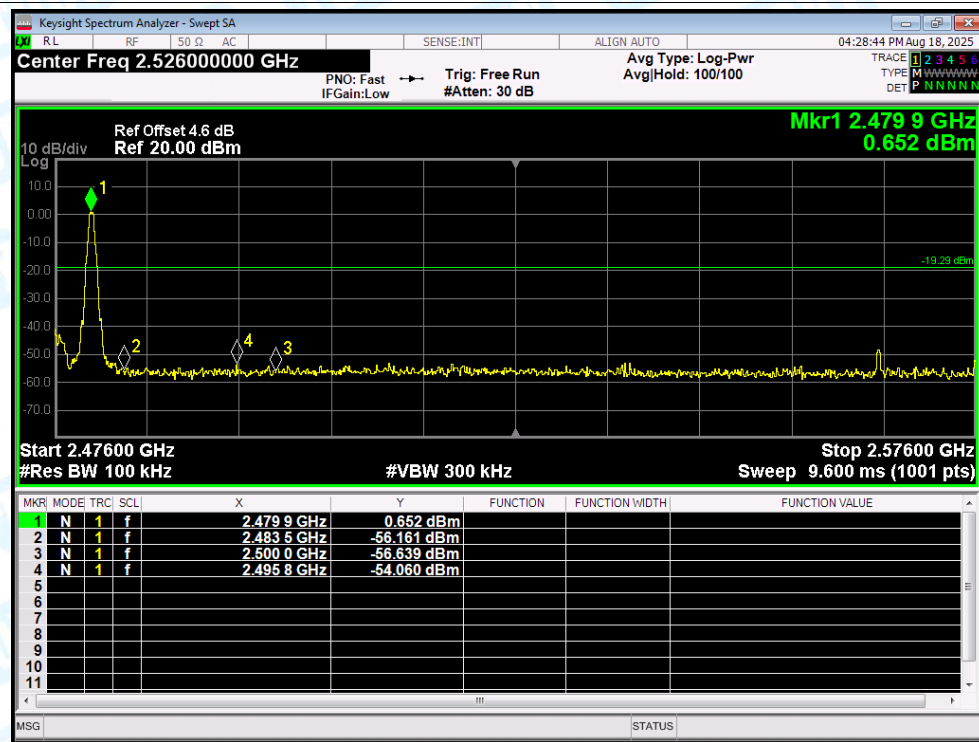
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

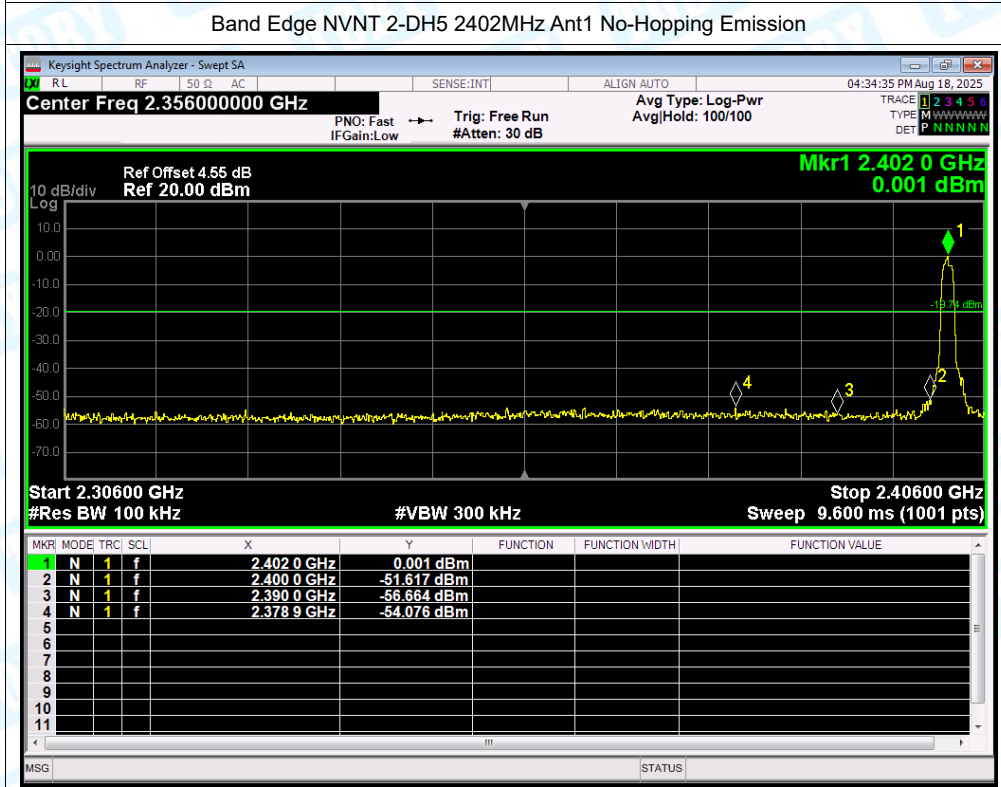
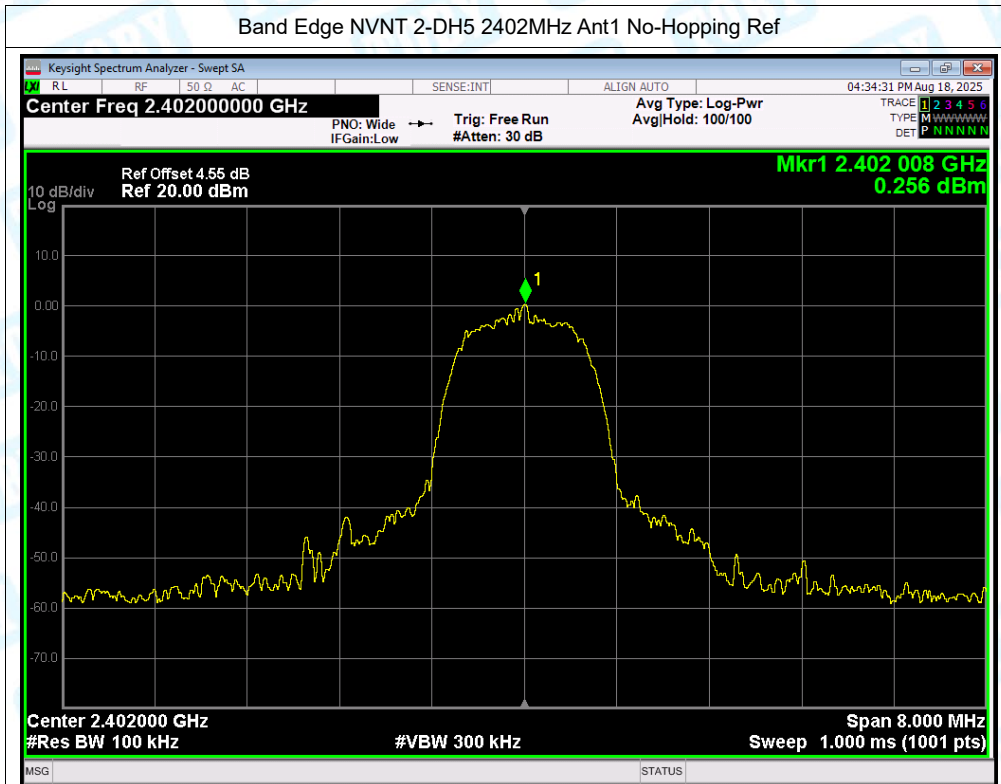


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

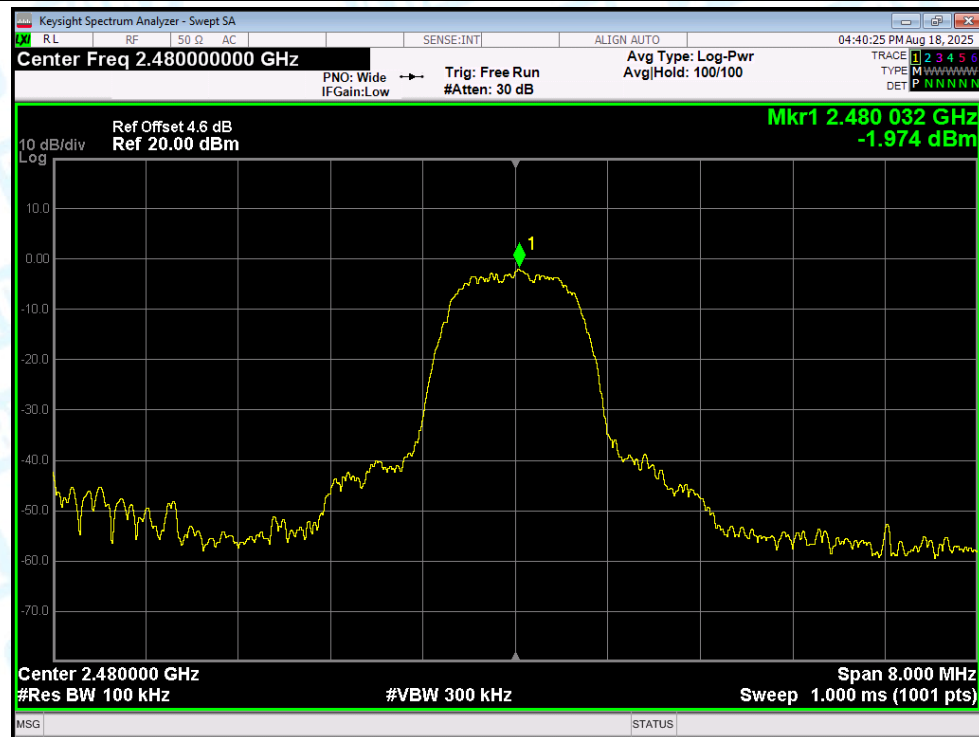


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

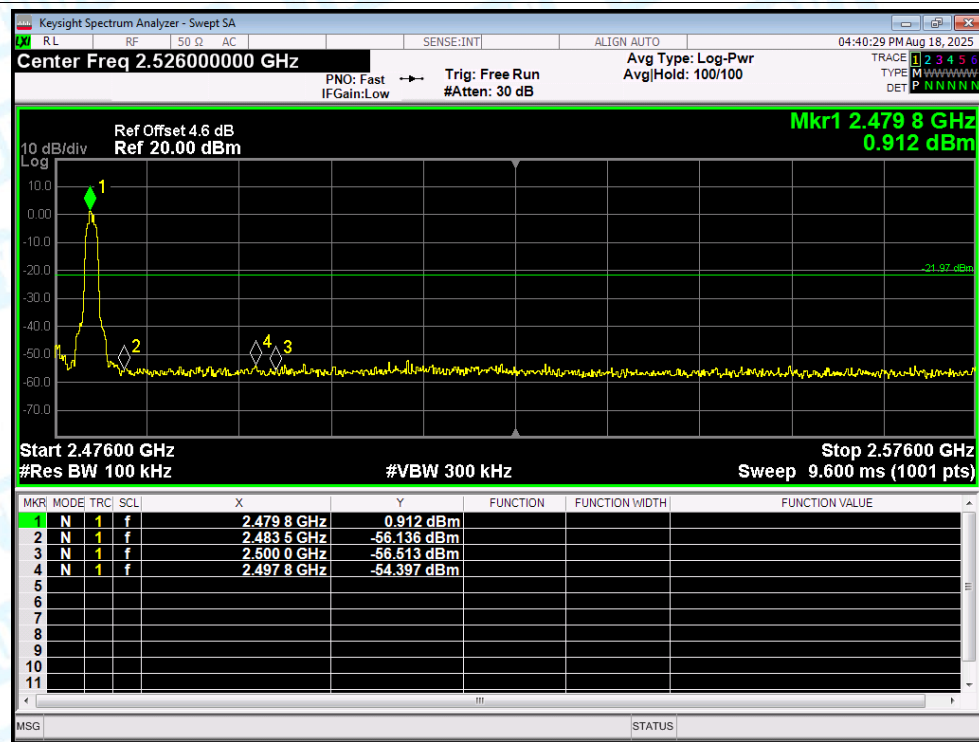




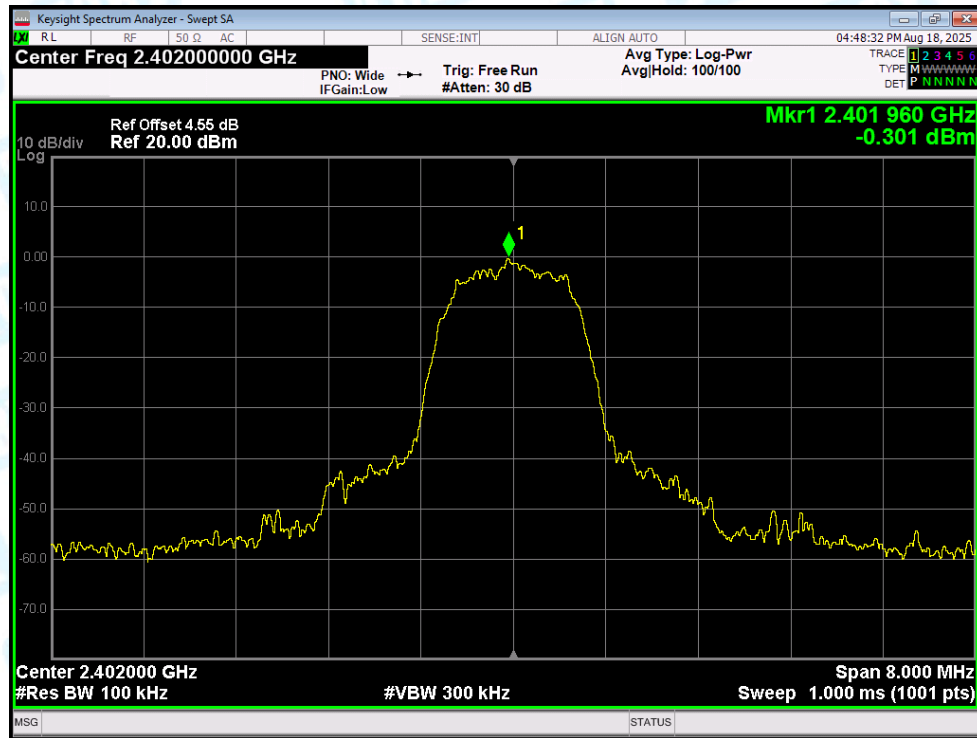
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



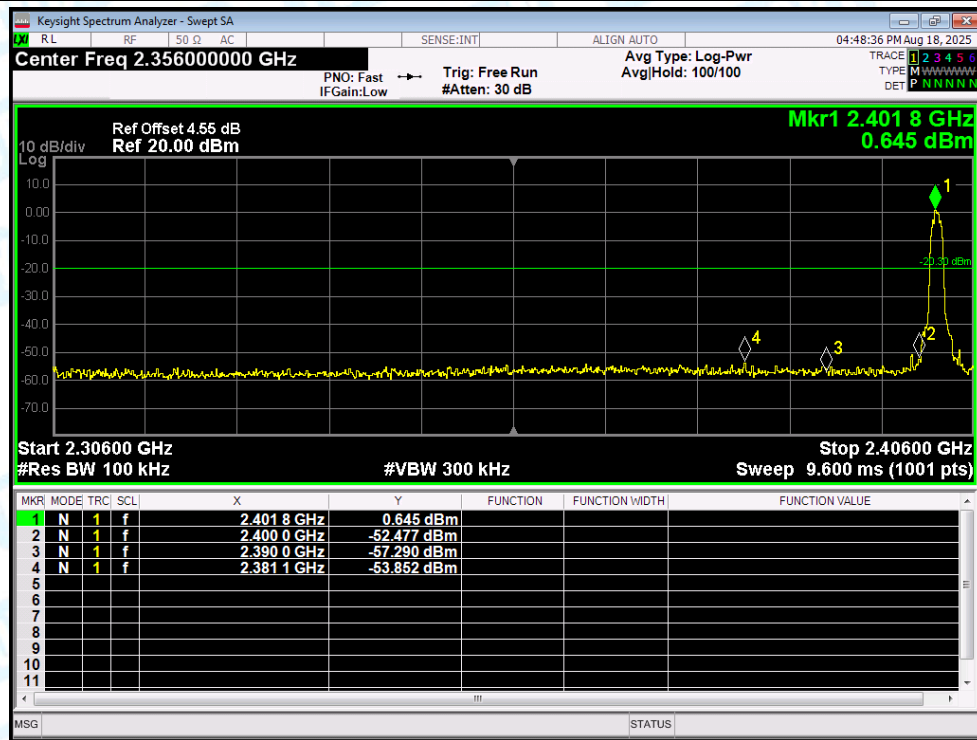
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

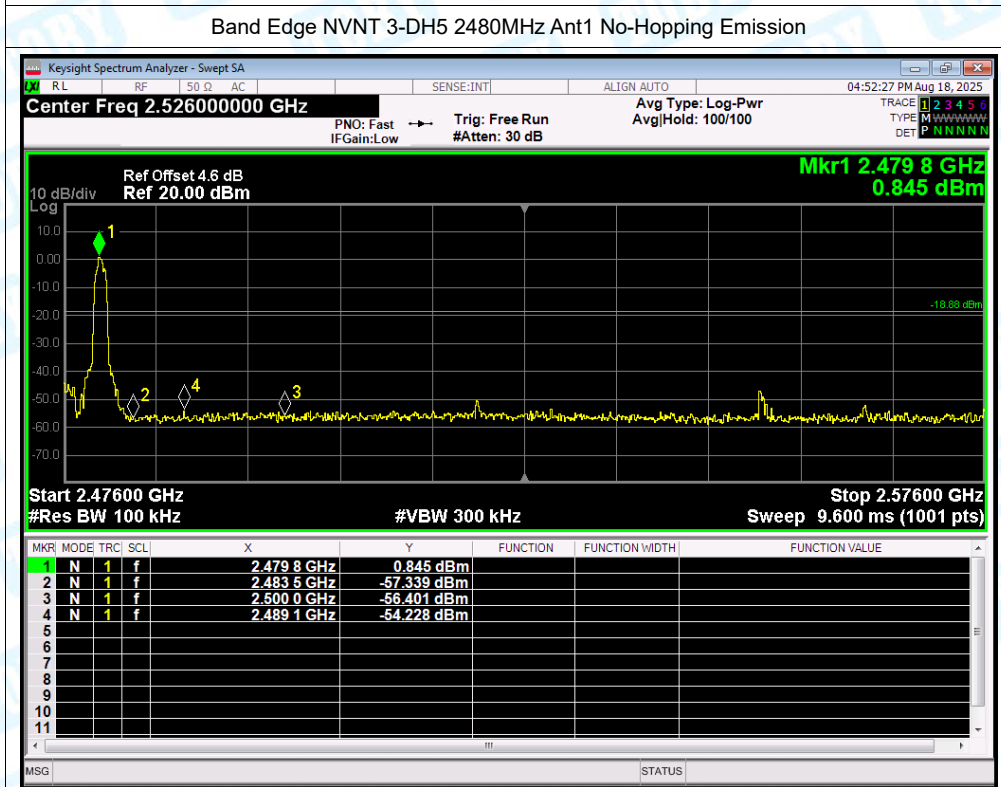
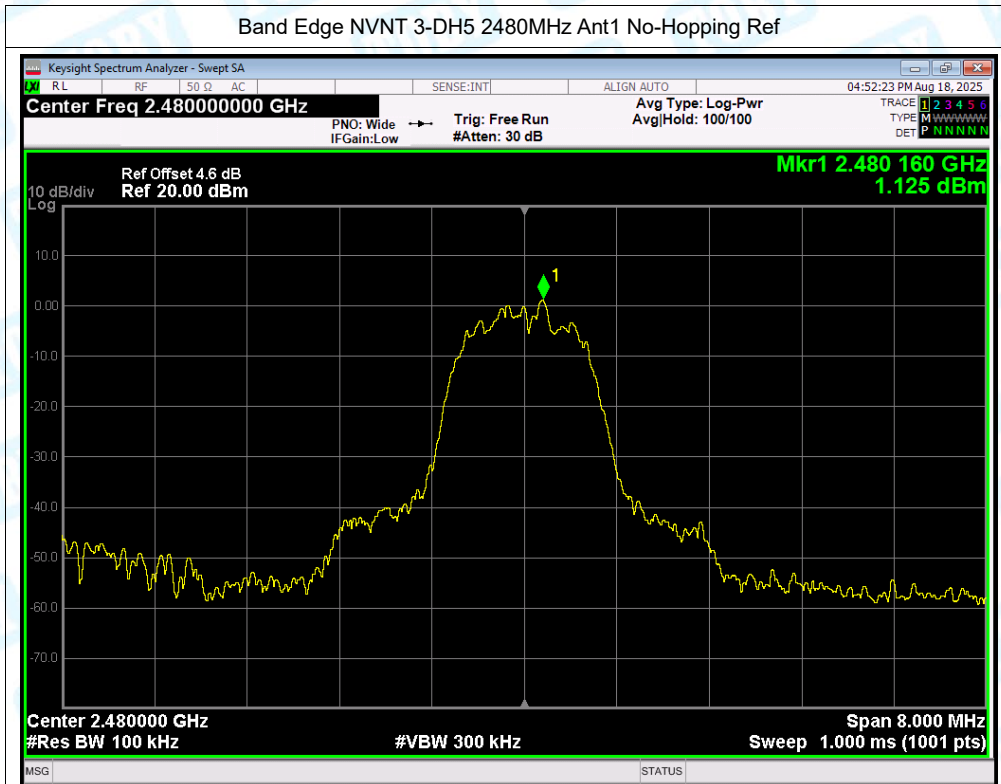


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



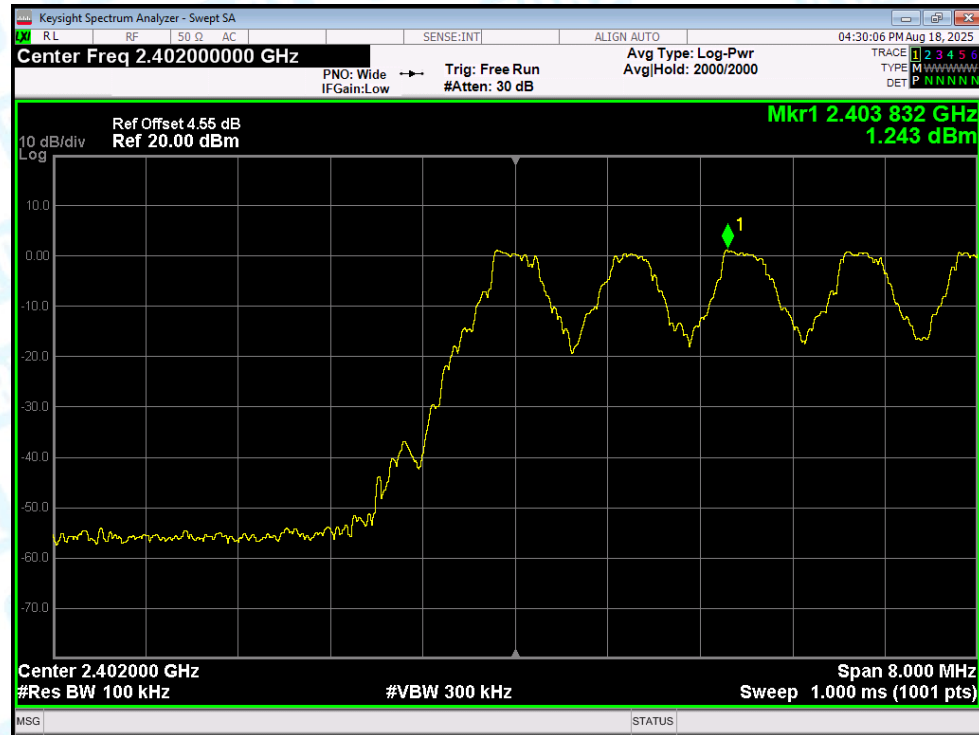


7. Band Edge(Hopping)

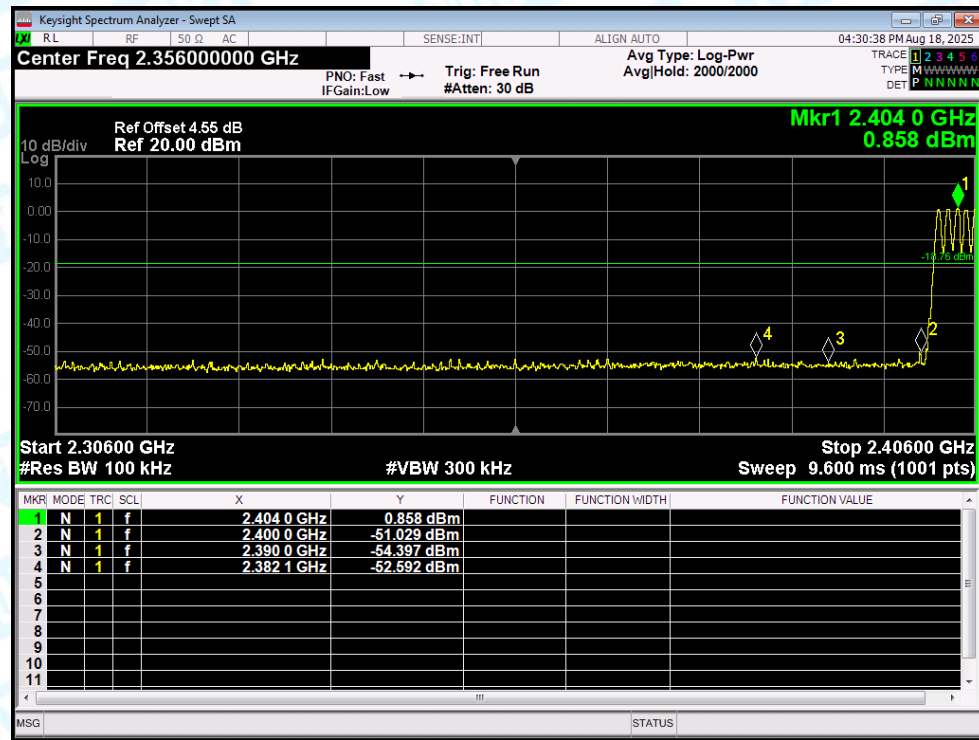
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.83	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.3	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.23	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.55	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.45	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.07	-20	Pass

Test Graphs

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



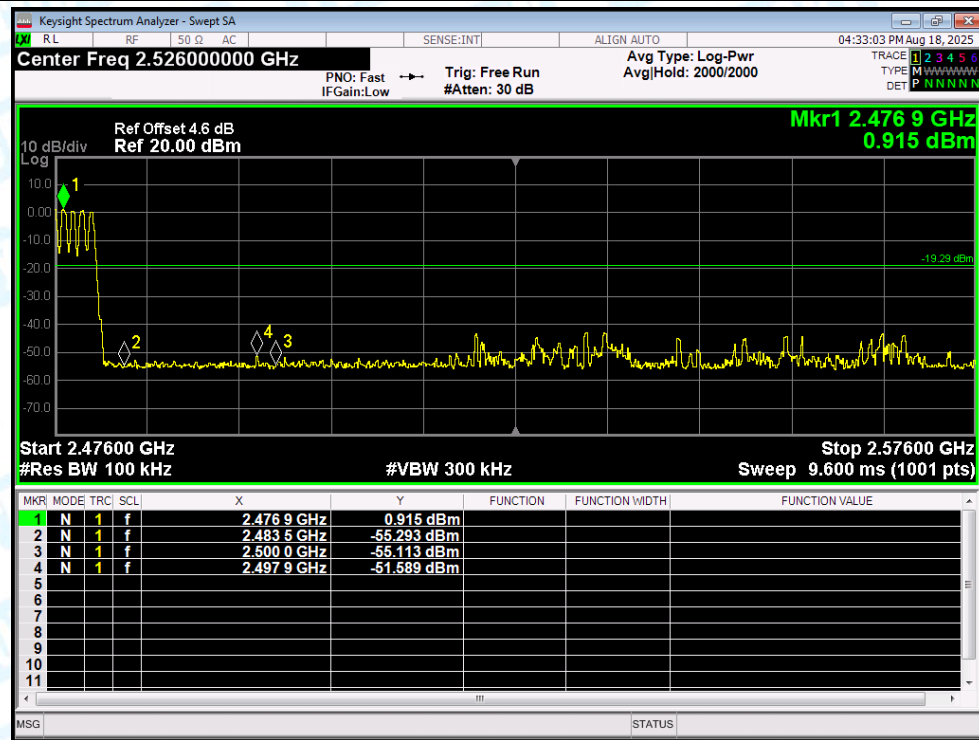
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



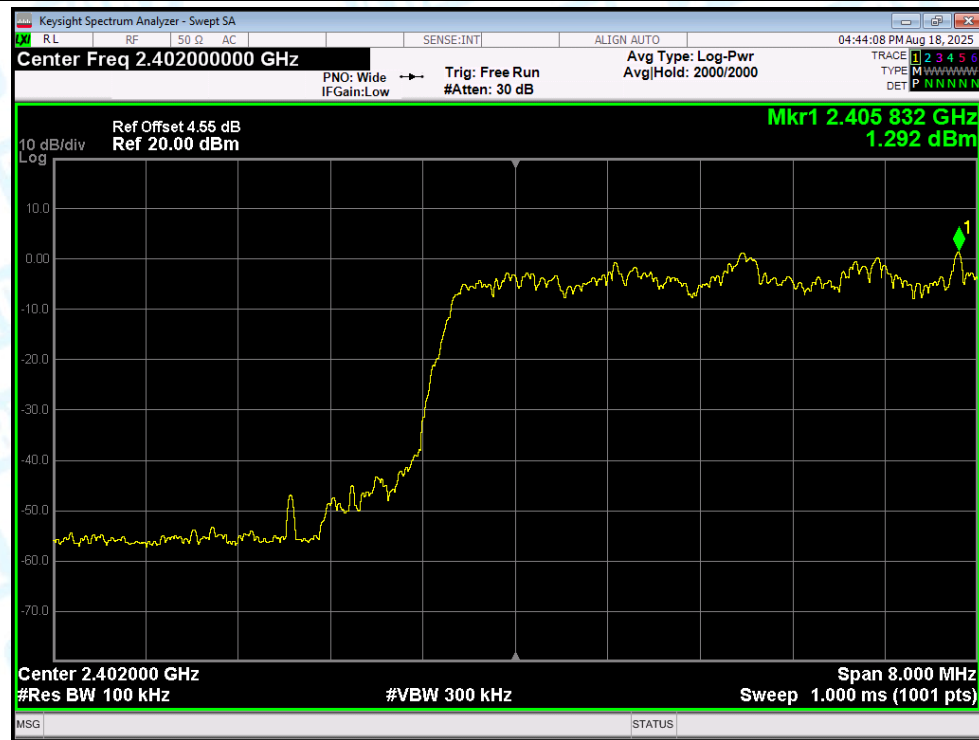
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



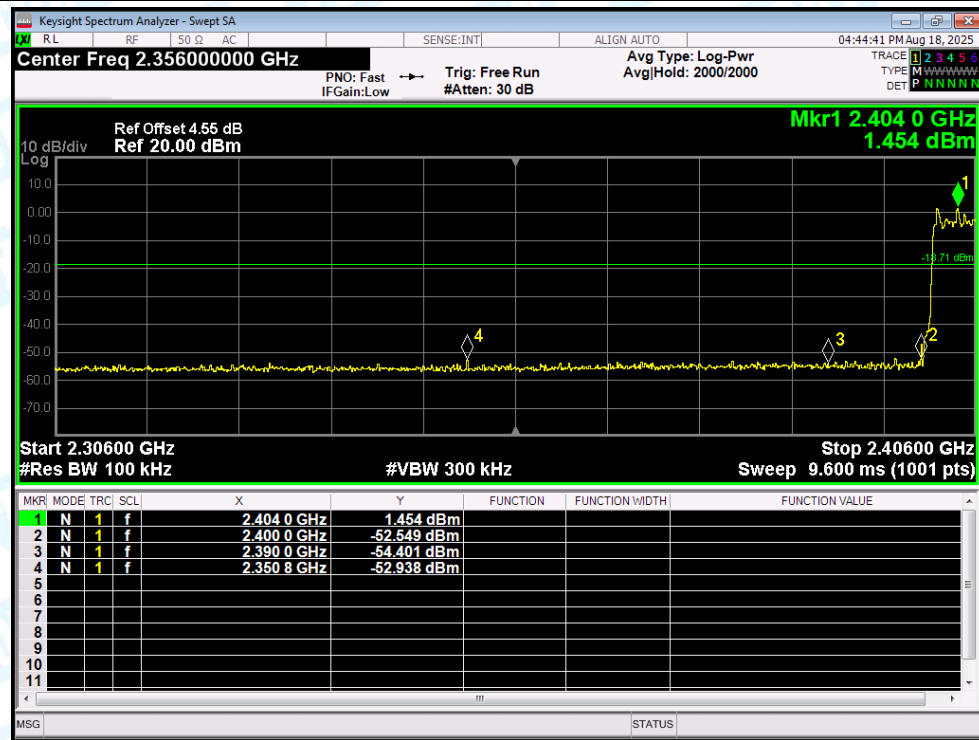
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

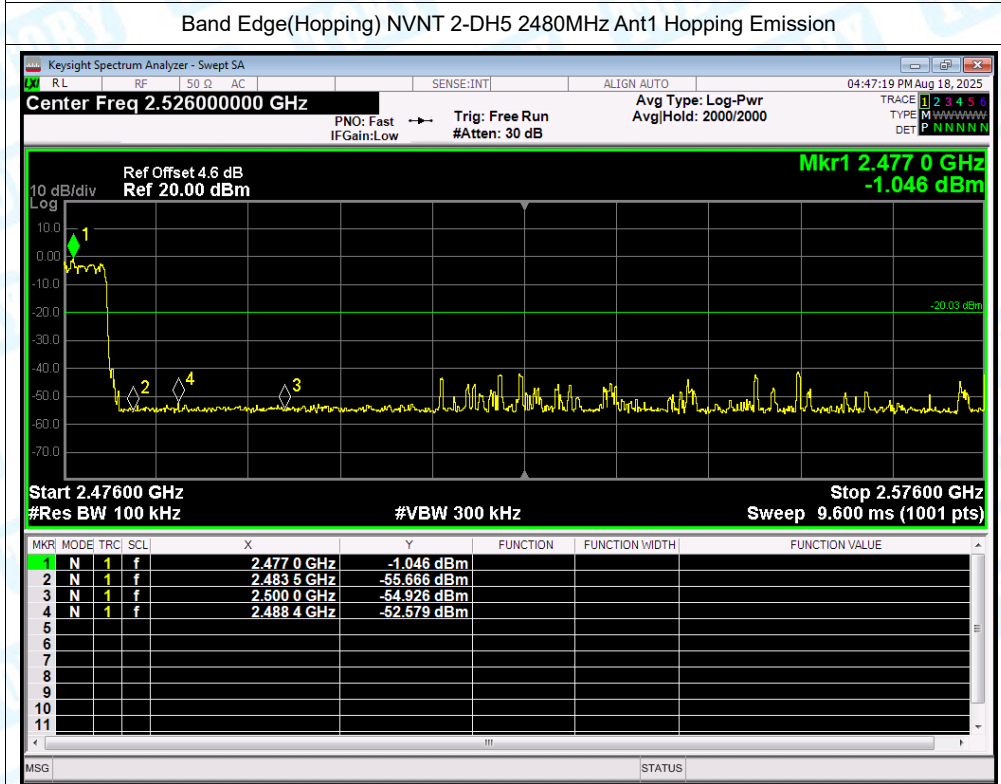
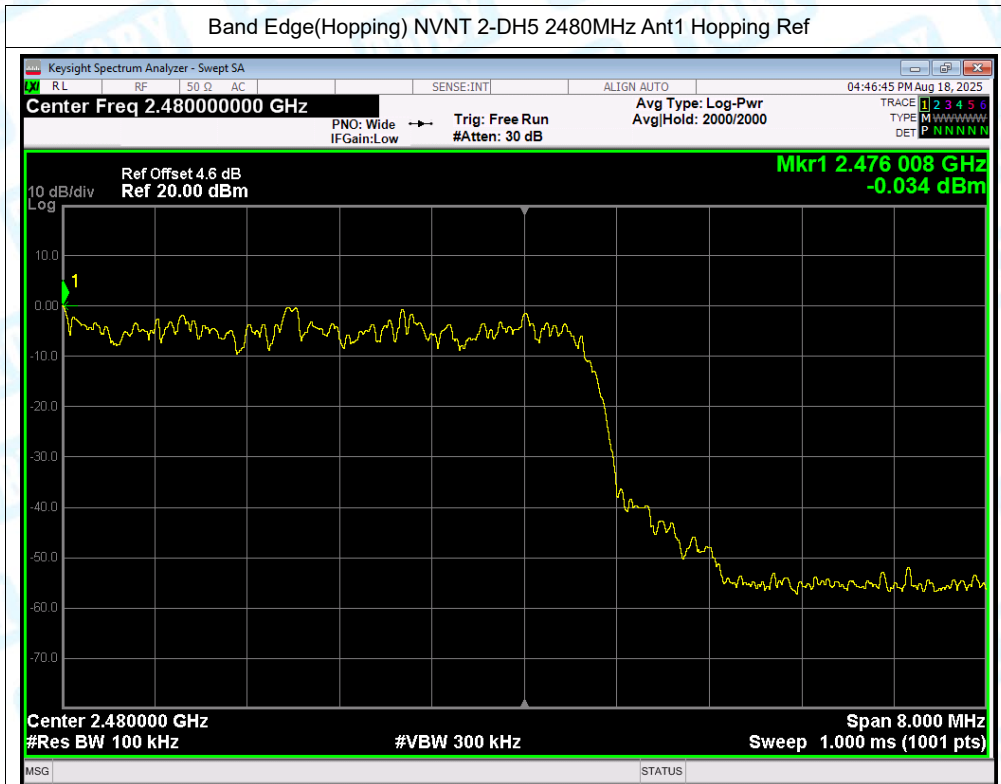


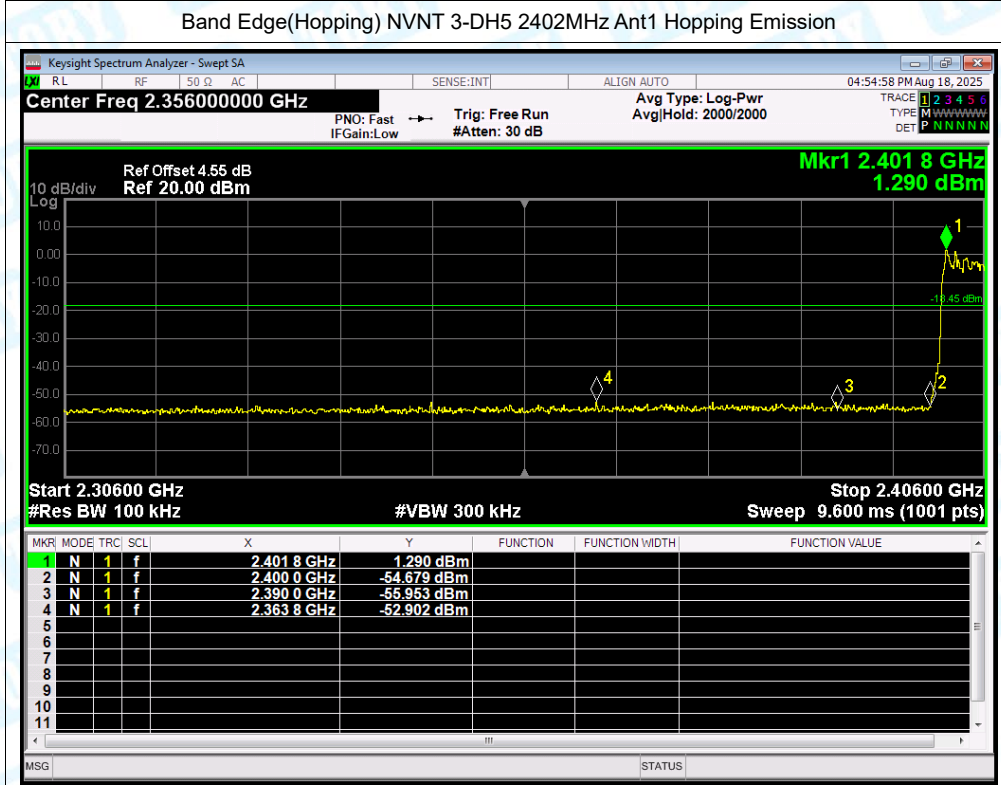
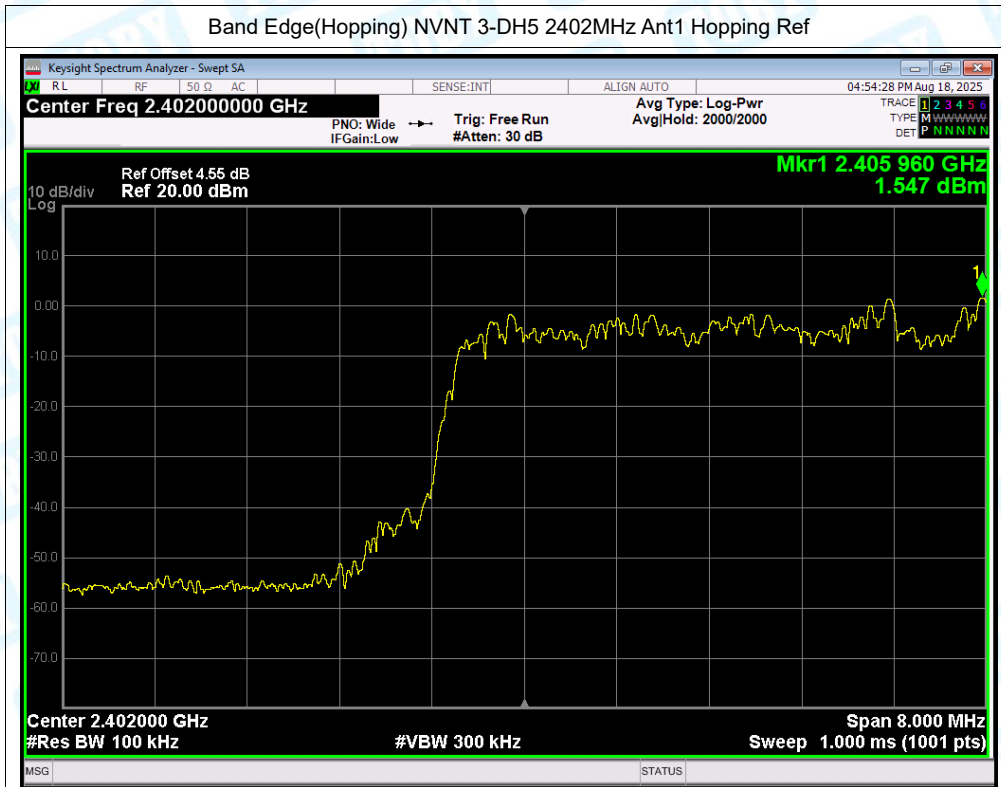
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

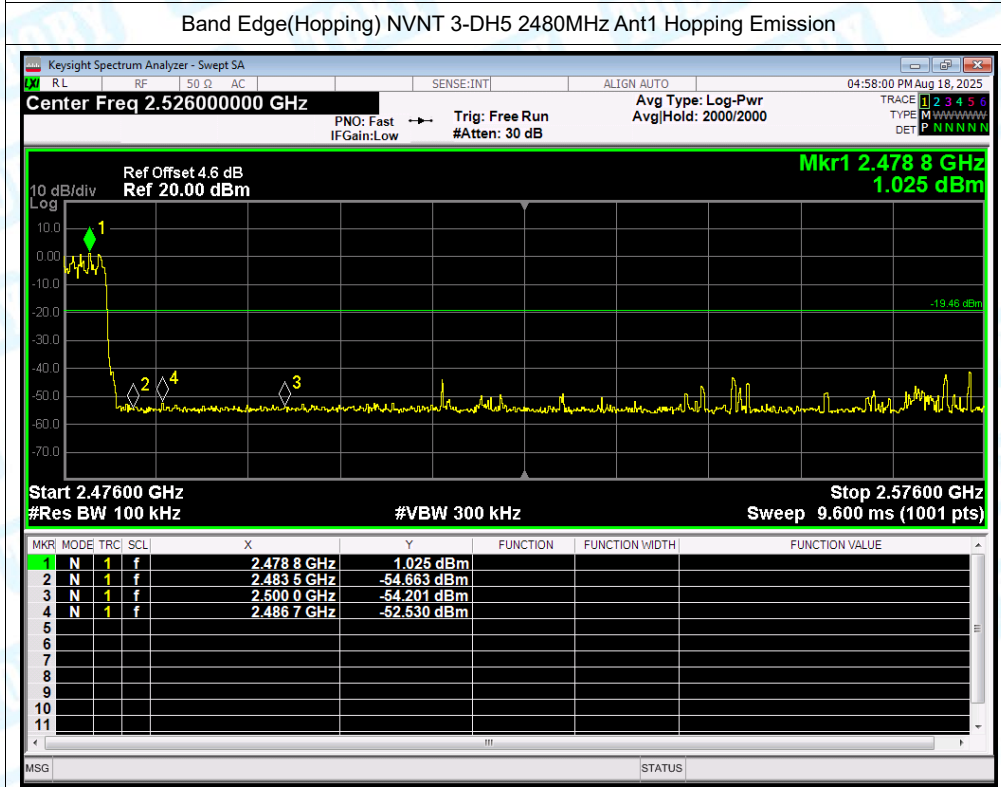
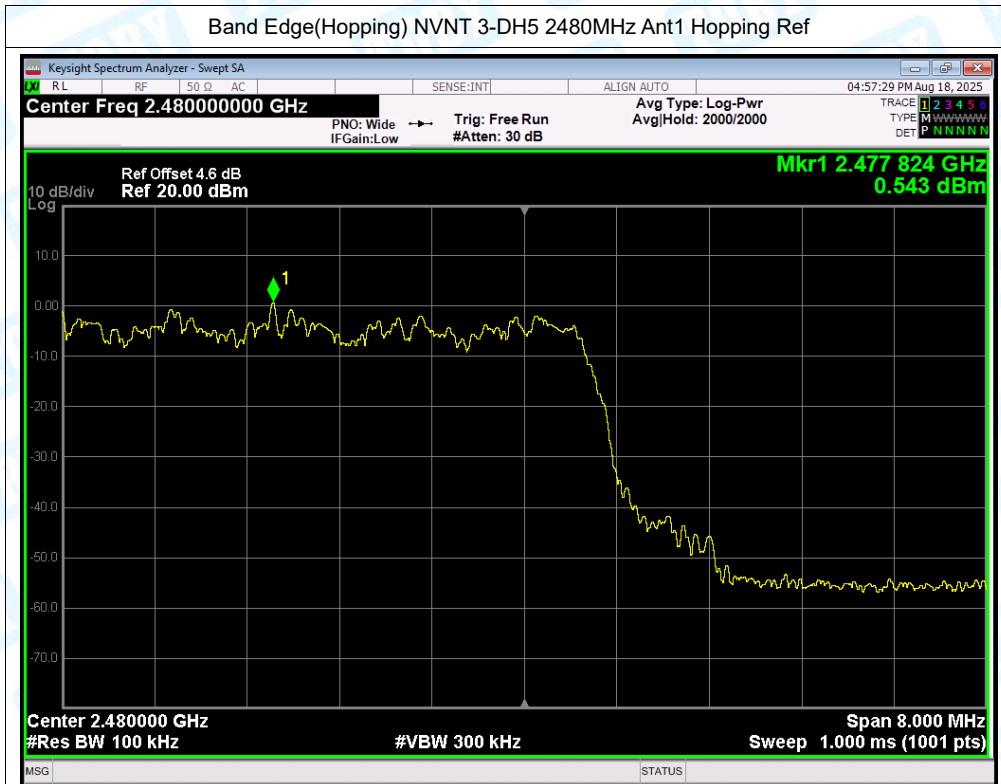


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission







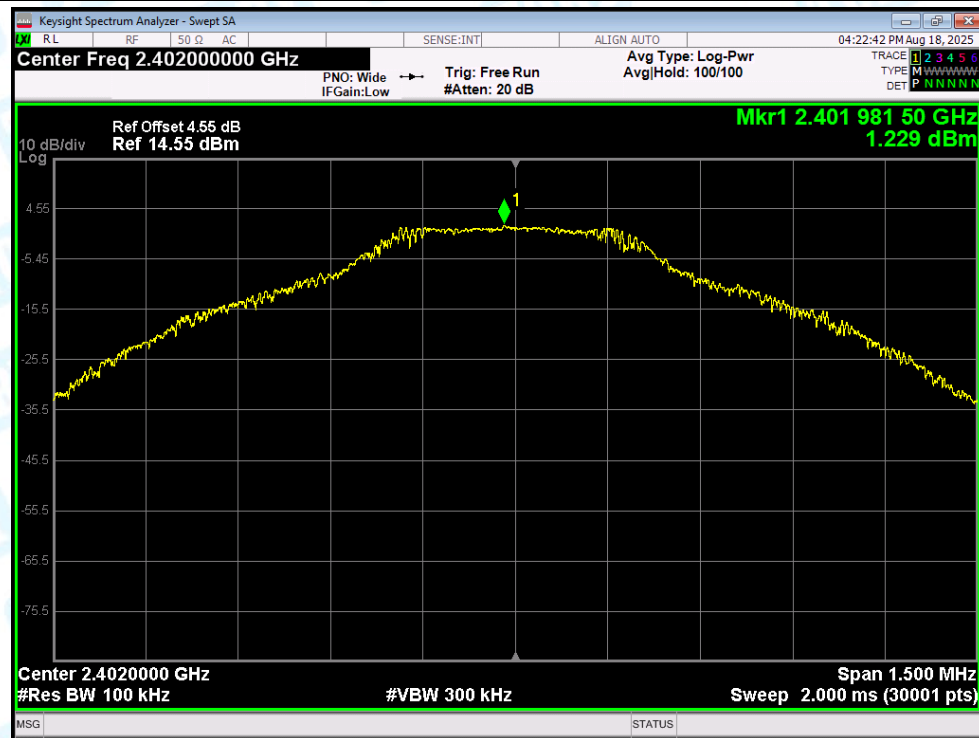


8. Conducted RF Spurious Emission

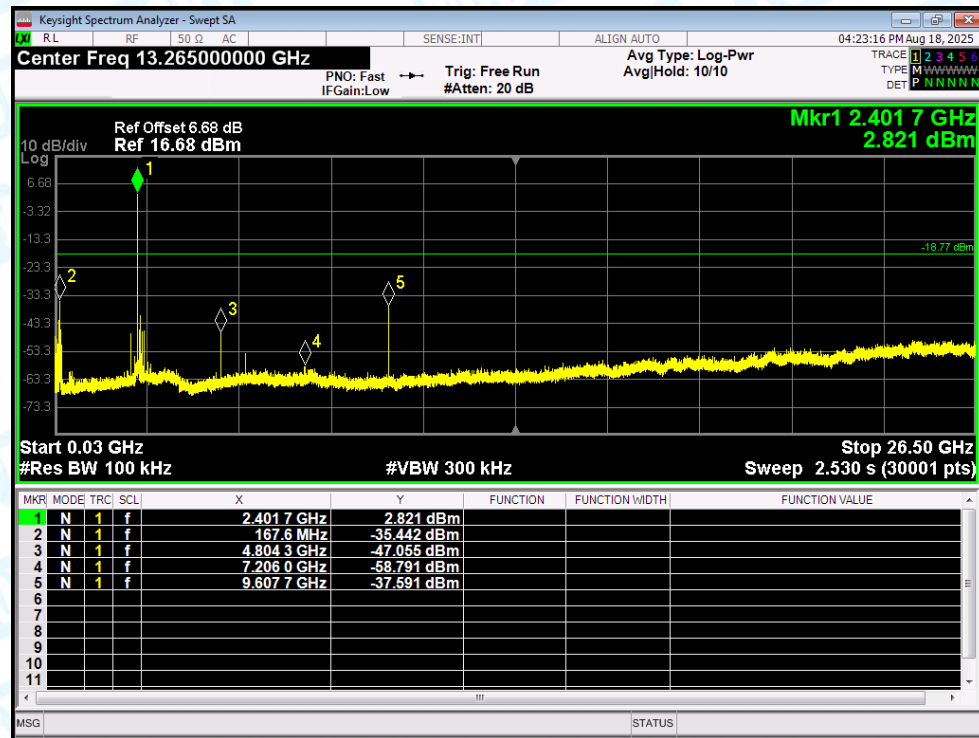
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-36.67	-20	Pass
NVNT	1-DH5	2441	Ant1	-37.91	-20	Pass
NVNT	1-DH5	2480	Ant1	-37.57	-20	Pass
NVNT	2-DH5	2402	Ant1	-36.27	-20	Pass
NVNT	2-DH5	2441	Ant1	-37.31	-20	Pass
NVNT	2-DH5	2480	Ant1	-37.01	-20	Pass
NVNT	3-DH5	2402	Ant1	-36.76	-20	Pass
NVNT	3-DH5	2441	Ant1	-37.19	-20	Pass
NVNT	3-DH5	2480	Ant1	-35.91	-20	Pass

Test Graphs

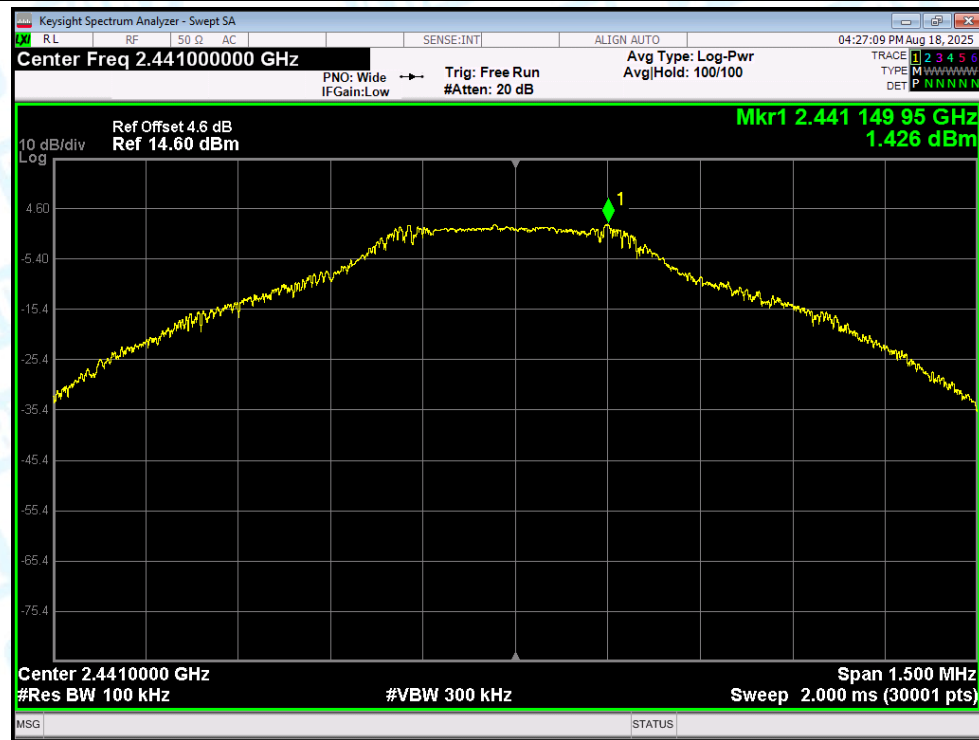
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



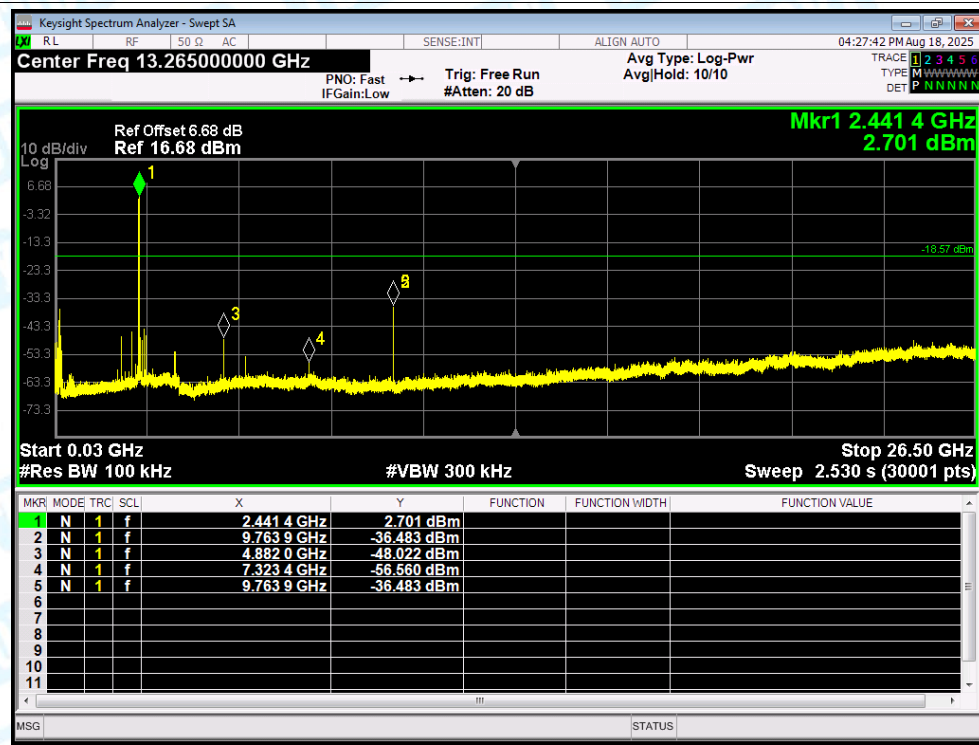
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



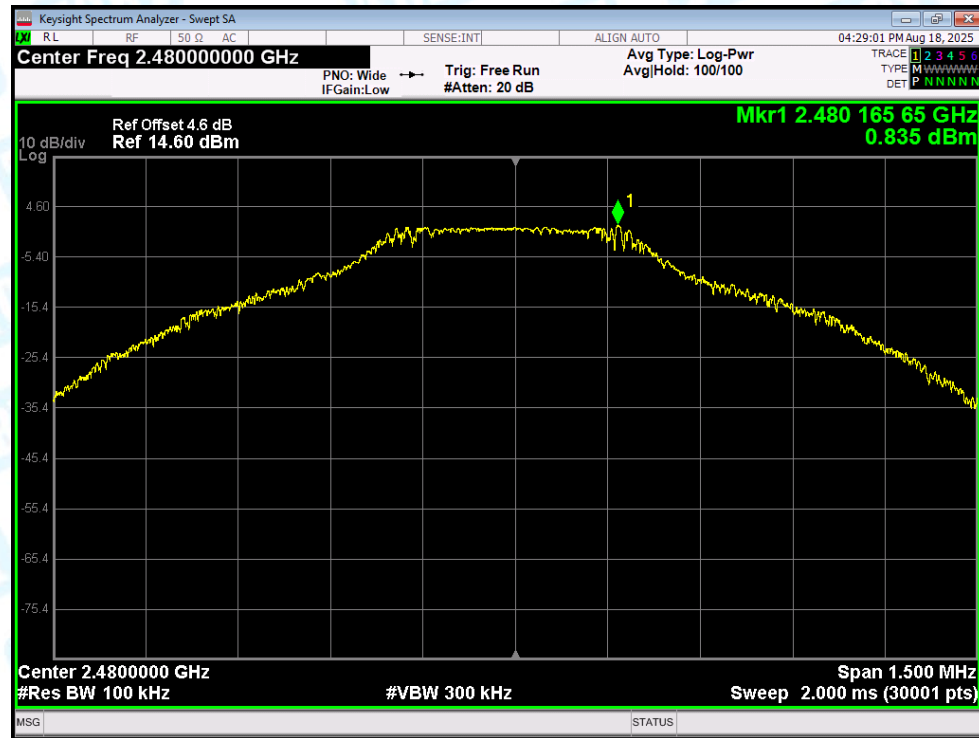
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



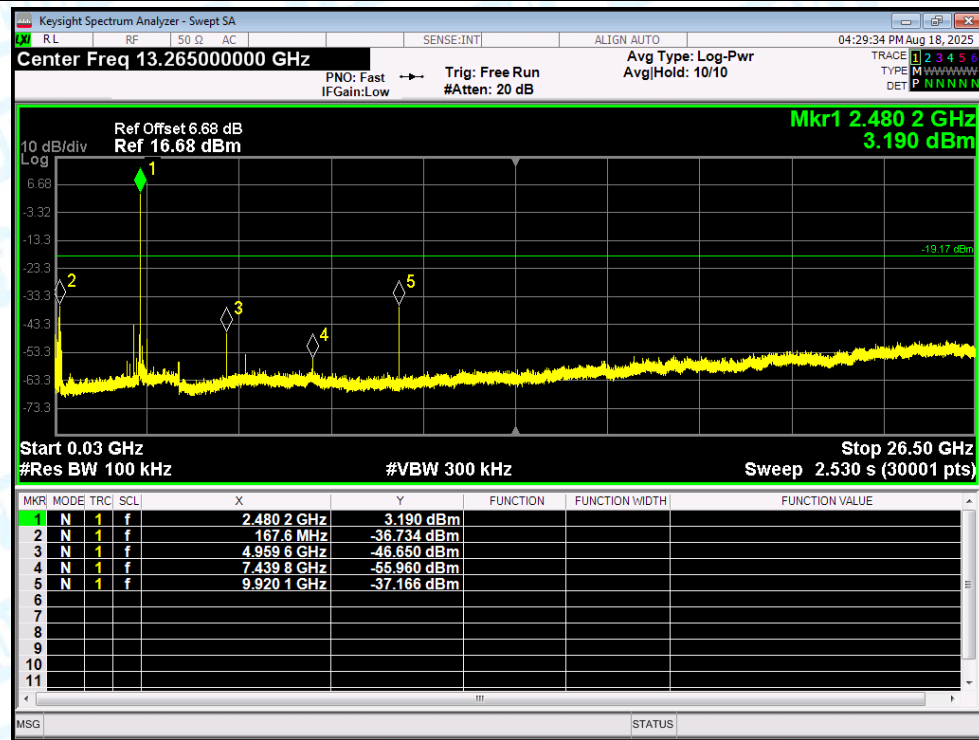
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



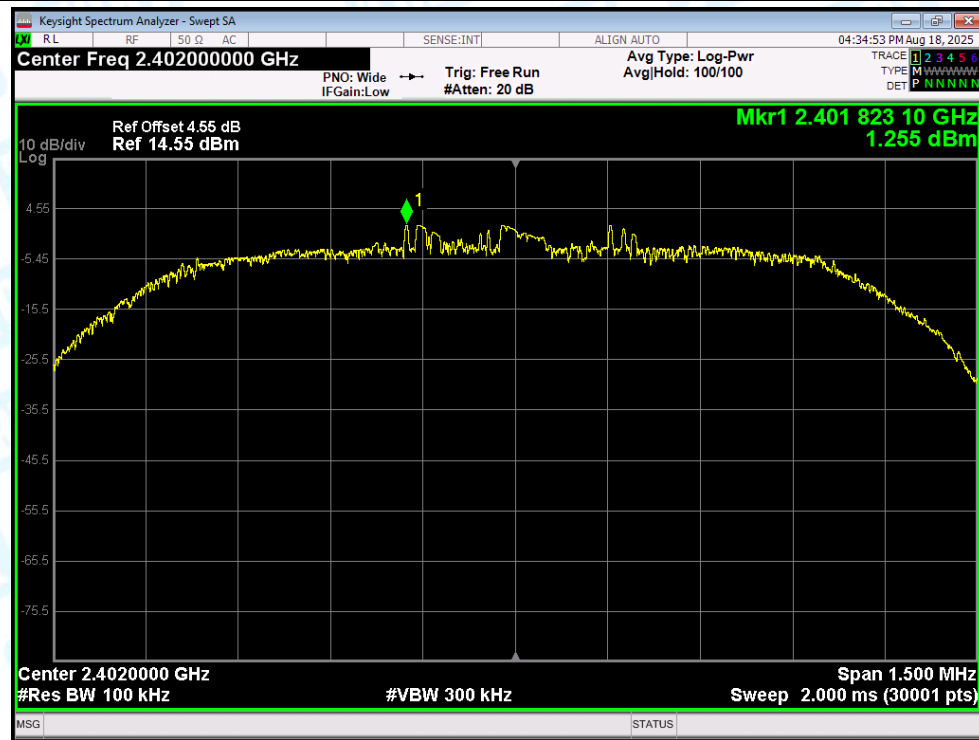
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



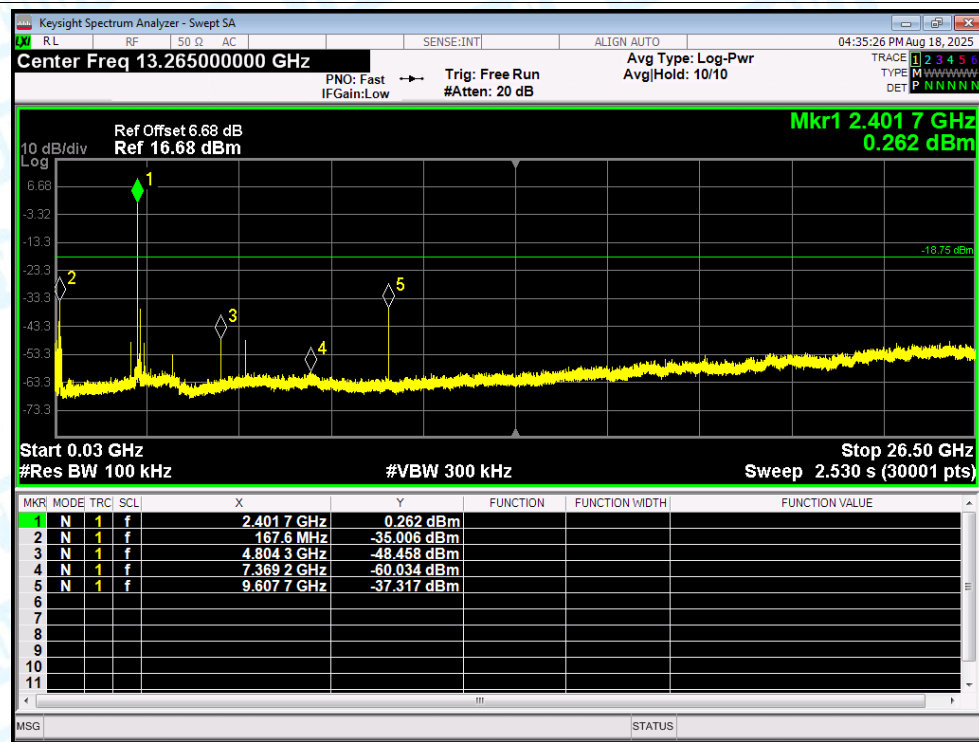
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



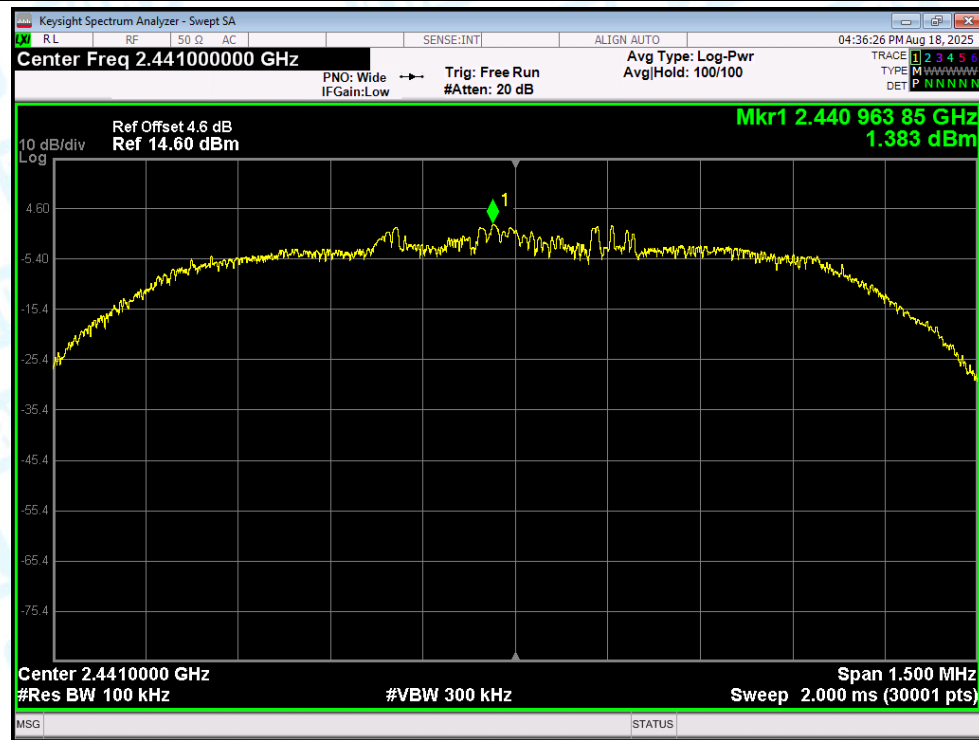
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



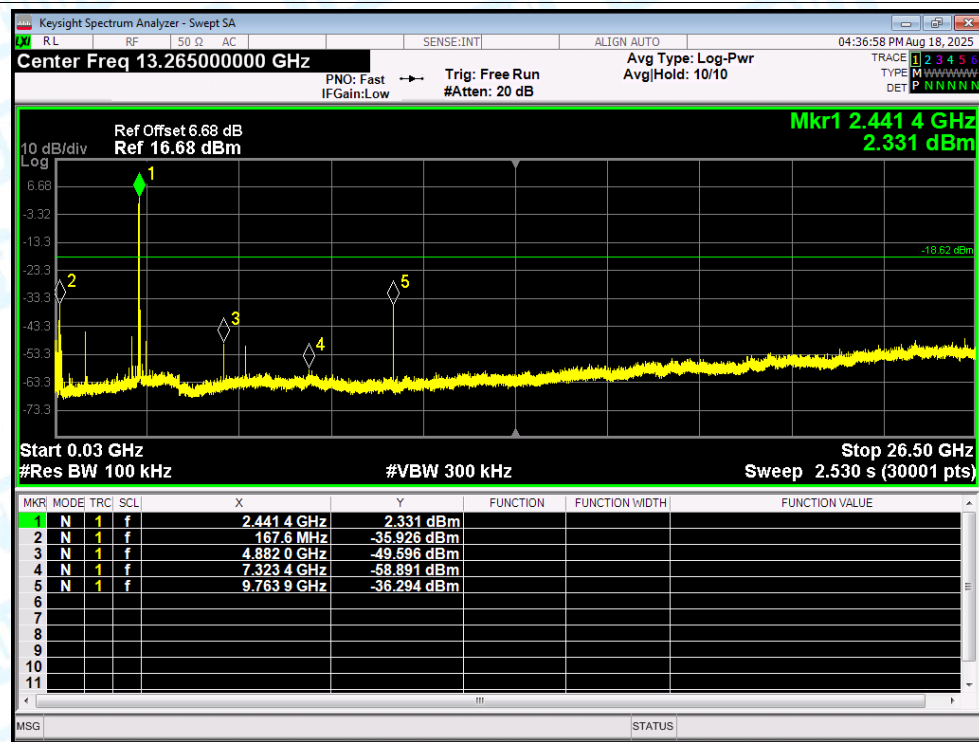
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



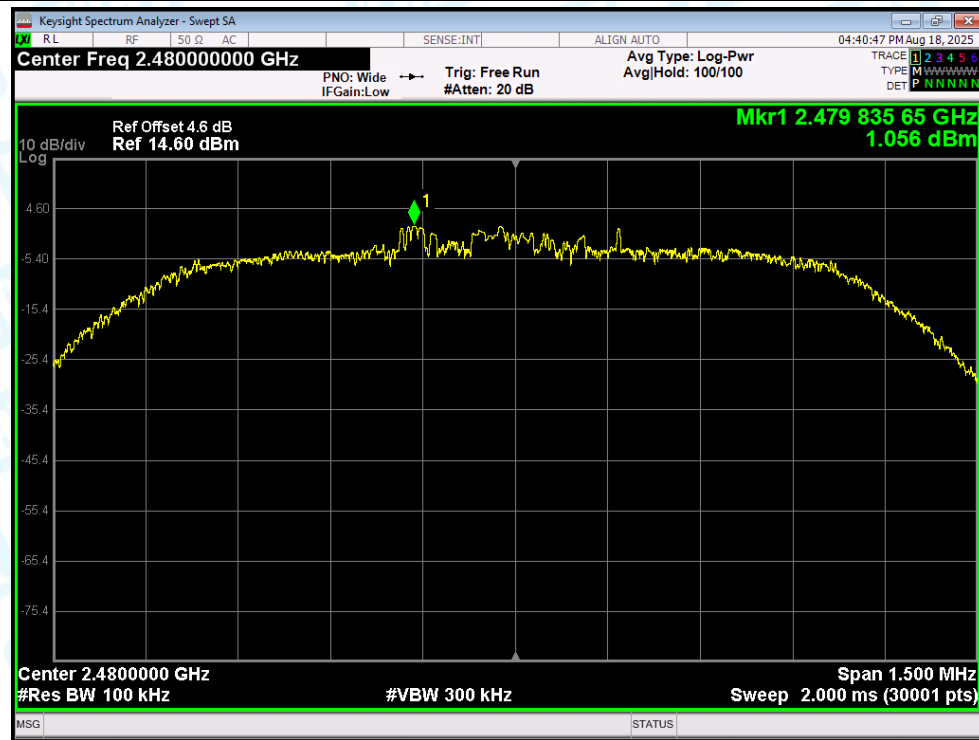
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



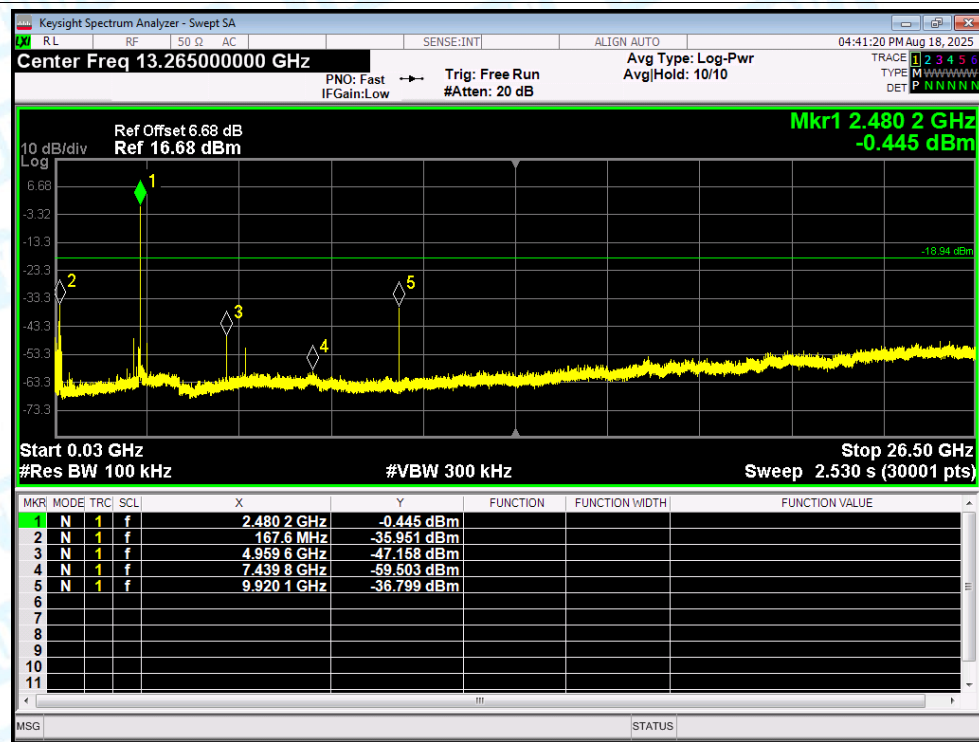
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



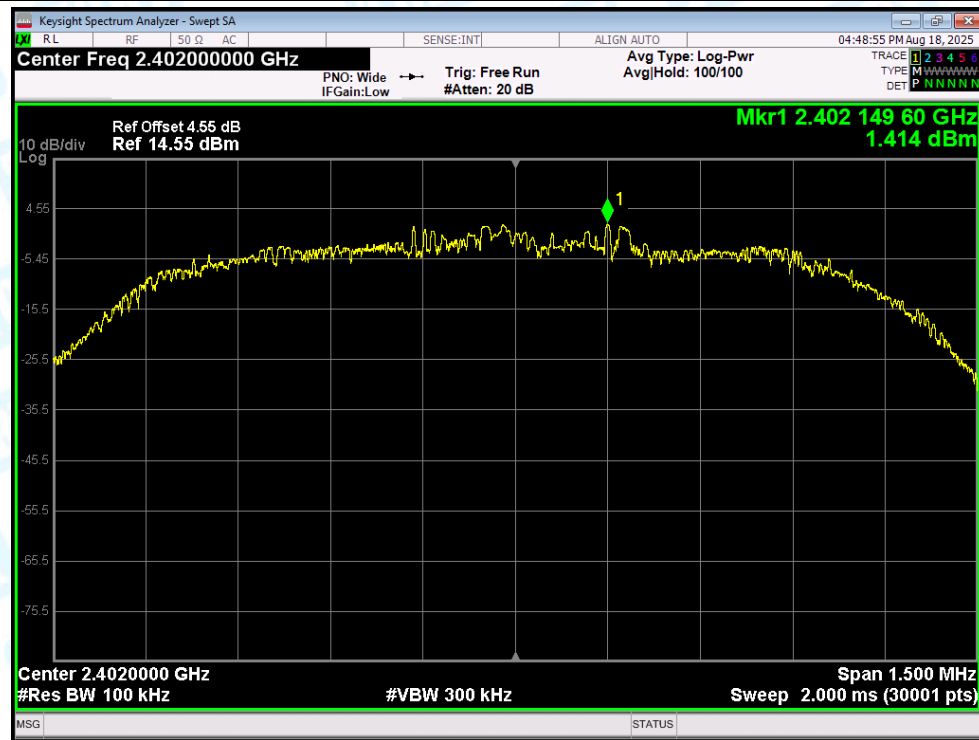
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



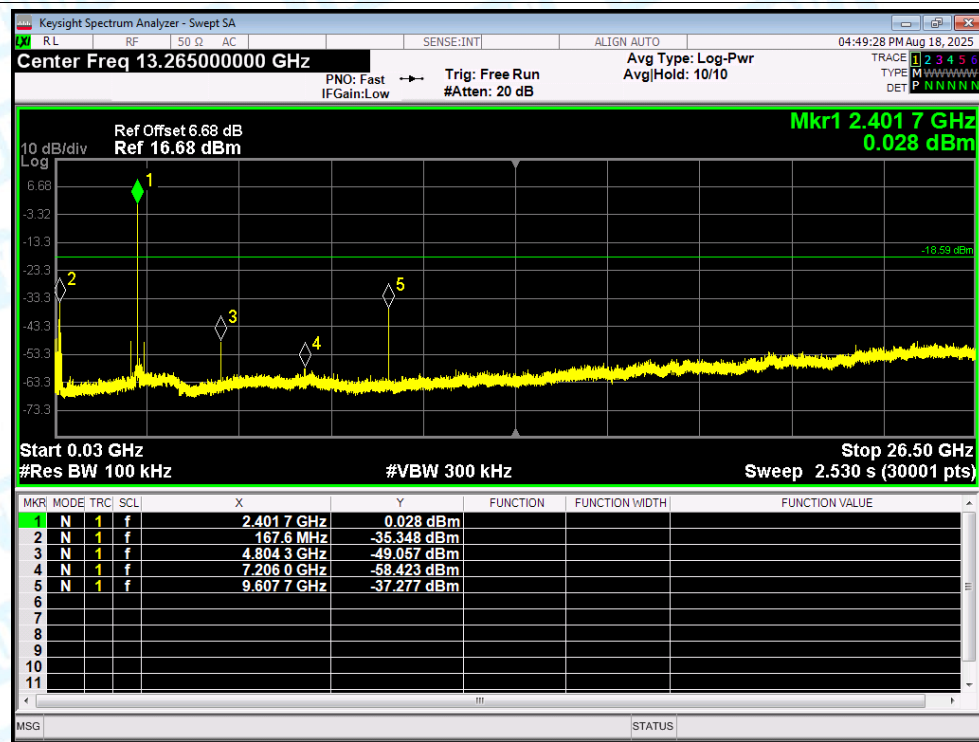
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



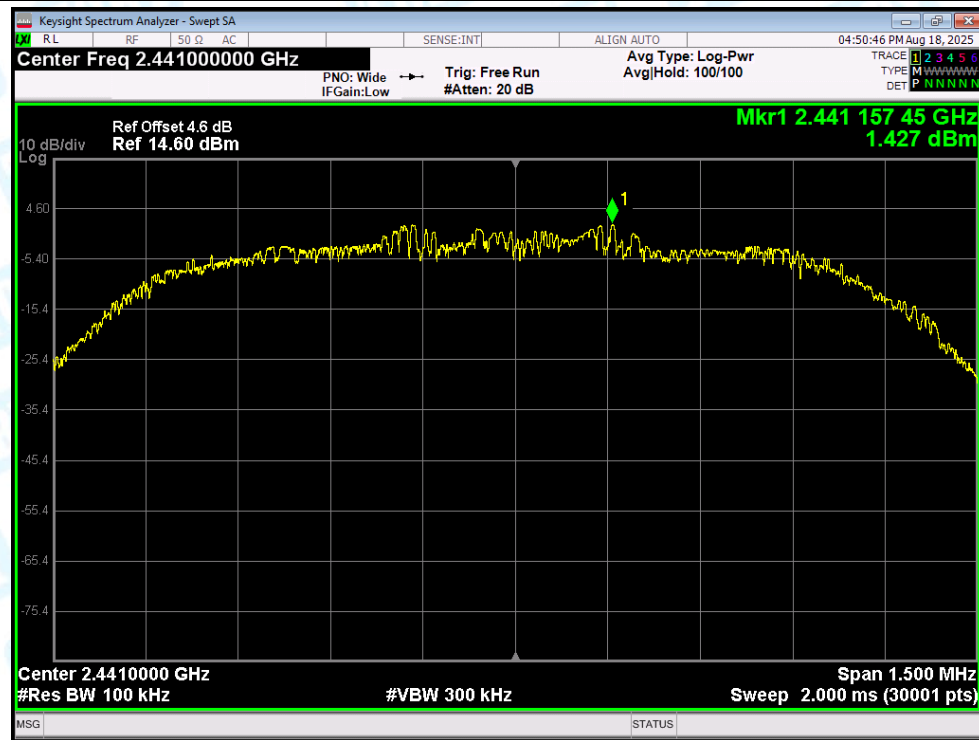
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



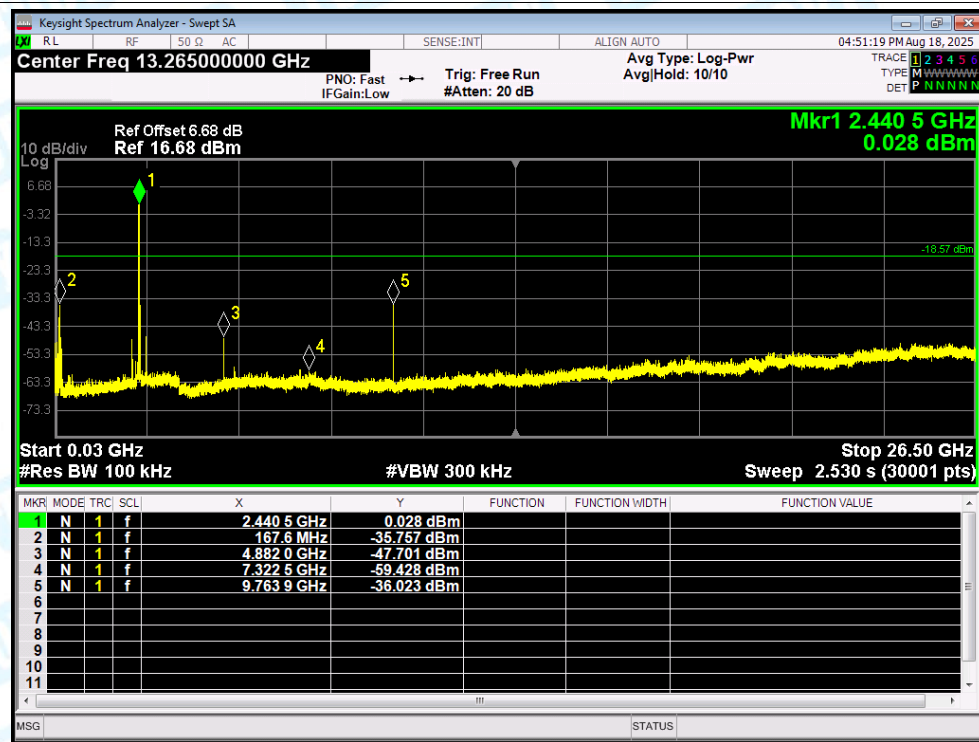
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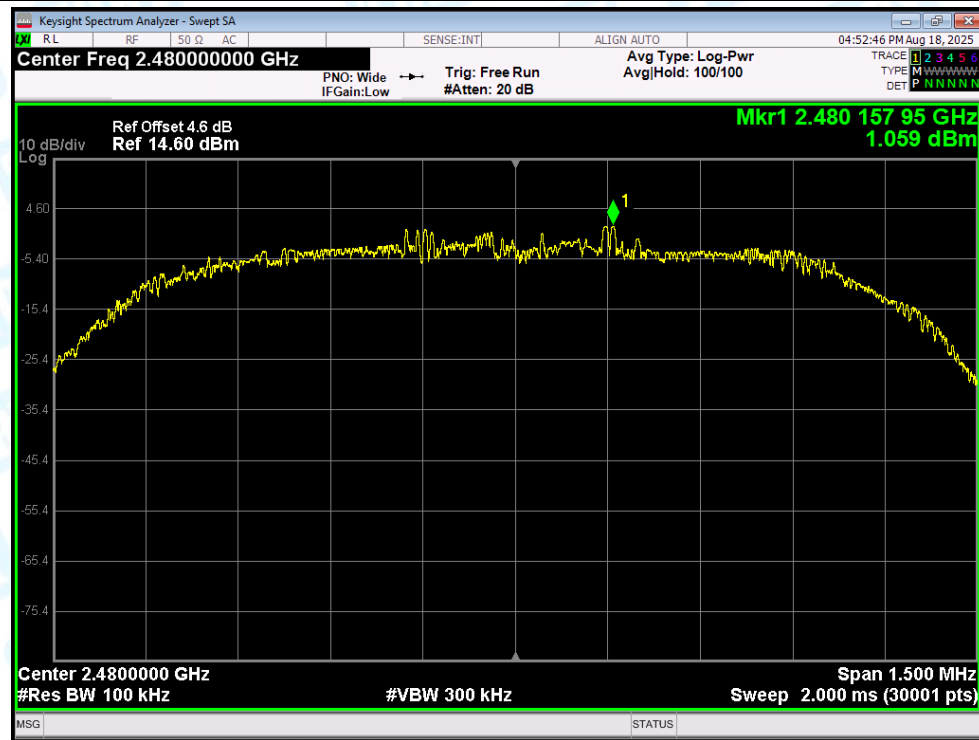
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



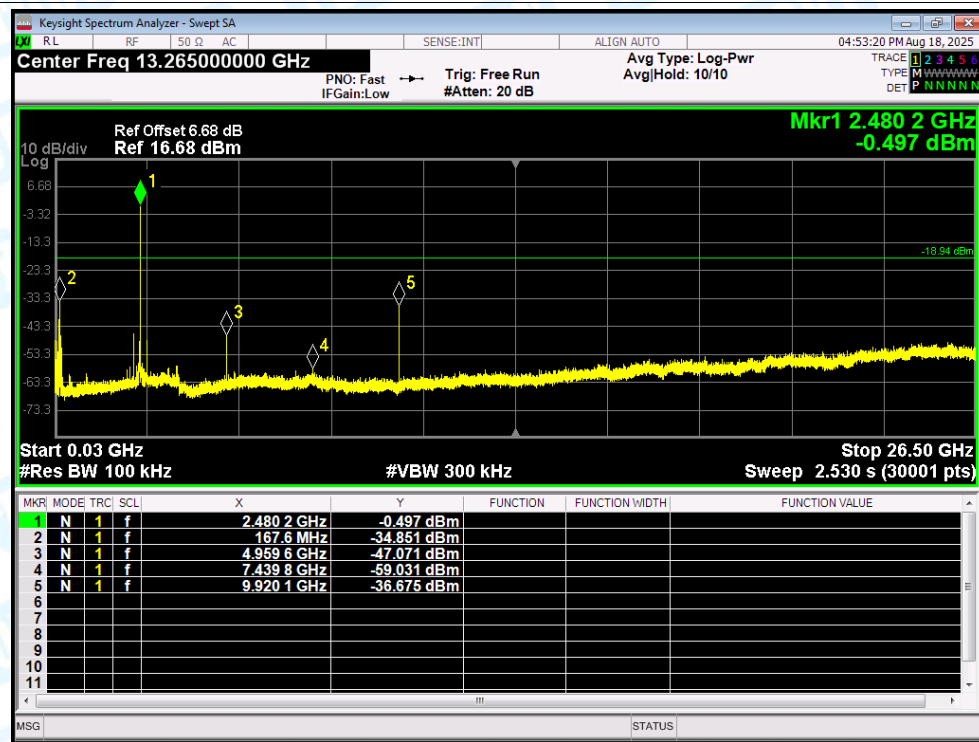
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

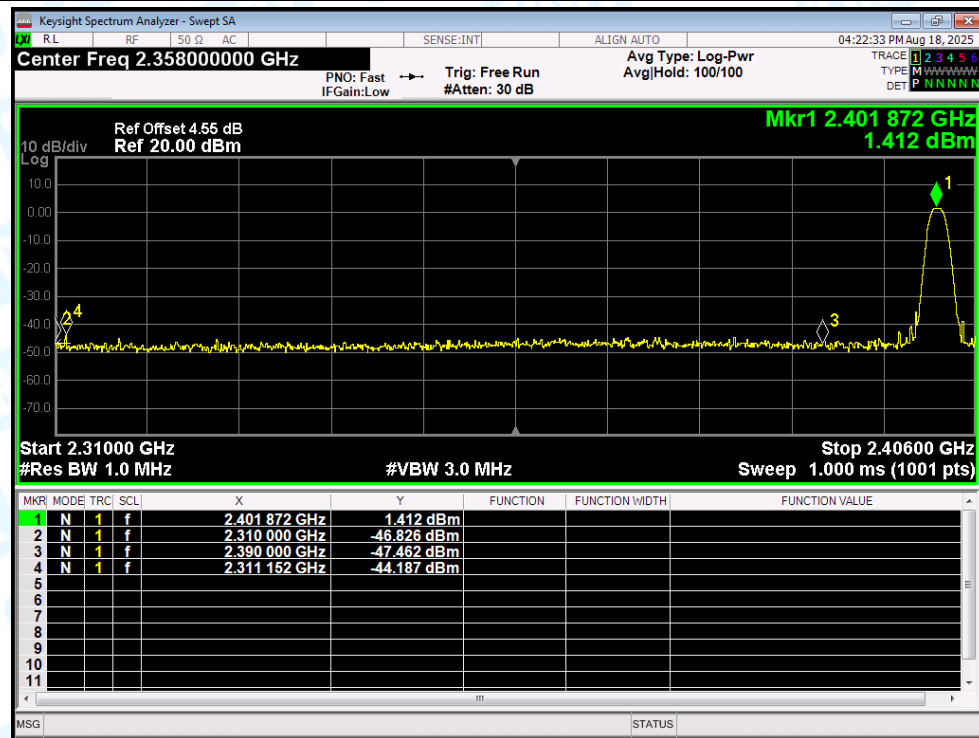


9. Restrict Band

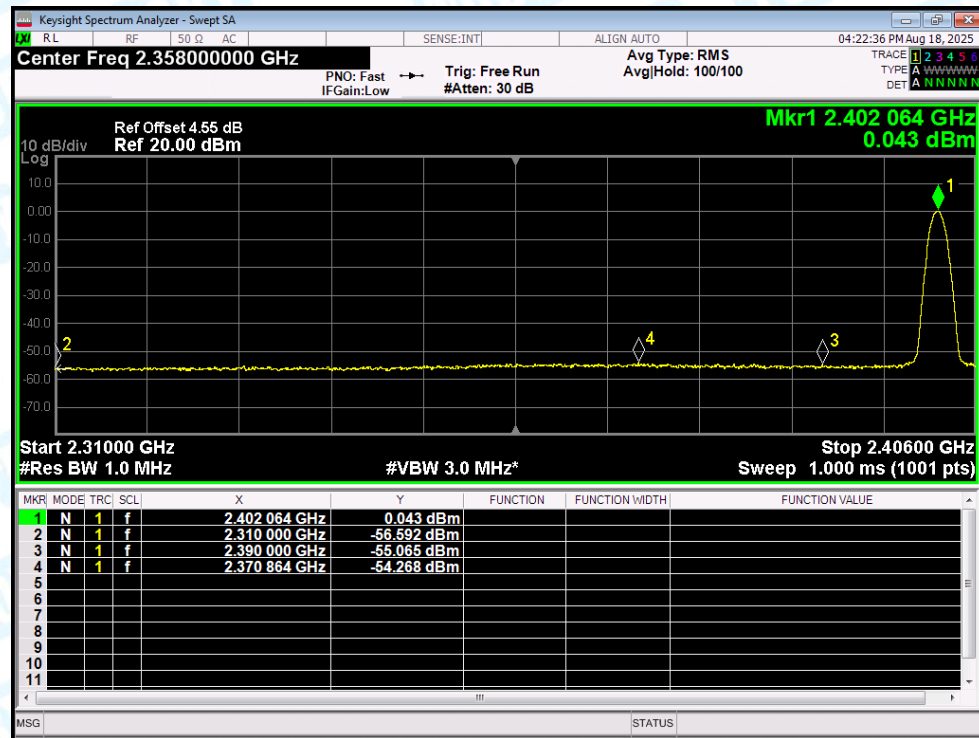
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-46.83	2.73	-	51.16	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-56.59	2.73	0	41.4	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2311.152	-44.19	2.73	-	53.8	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2370.864	-54.27	2.73	0	43.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-47.46	2.73	-	50.53	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-55.07	2.73	0	42.92	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-45.87	2.73	-	52.12	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.27	2.73	1.14	44.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.608	-43.97	2.73	-	54.02	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.112	-54.13	2.73	1.14	45	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.4	2.73	-	50.59	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-55.57	2.73	1.14	43.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.34	2.73	-	49.65	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-56.6	2.73	1.13	42.52	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.52	-44.01	2.73	-	53.98	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2368.848	-54.19	2.73	1.13	44.93	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-47.22	2.73	-	50.77	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-55.57	2.73	1.13	43.55	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.97	2.73	-	51.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.04	2.73	1.13	44.08	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.68	-43.02	2.73	-	54.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.704	-54.42	2.73	1.13	44.7	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.48	2.73	-	49.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-55.39	2.73	1.13	43.73	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.46	2.73	-	49.53	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-56.01	2.73	1.12	43.1	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2361.168	-43.44	2.73	-	54.55	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2367.12	-54.27	2.73	1.12	44.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.72	2.73	-	50.27	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-55.7	2.73	1.12	43.41	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-46.6	2.73	-	51.39	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-54.91	2.73	1.13	44.21	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2493.256	-43.04	2.73	-	54.95	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.112	-54.15	2.73	1.13	44.97	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-44.62	2.73	-	53.37	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-55.32	2.73	1.13	43.8	Average	54	Pass

Test Graphs

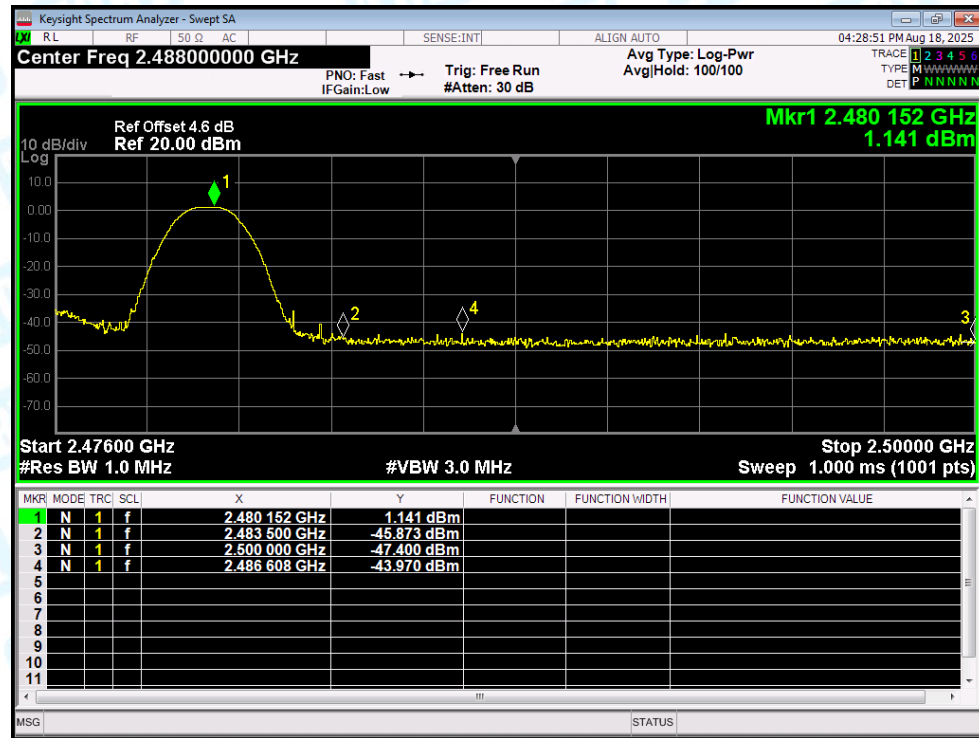
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



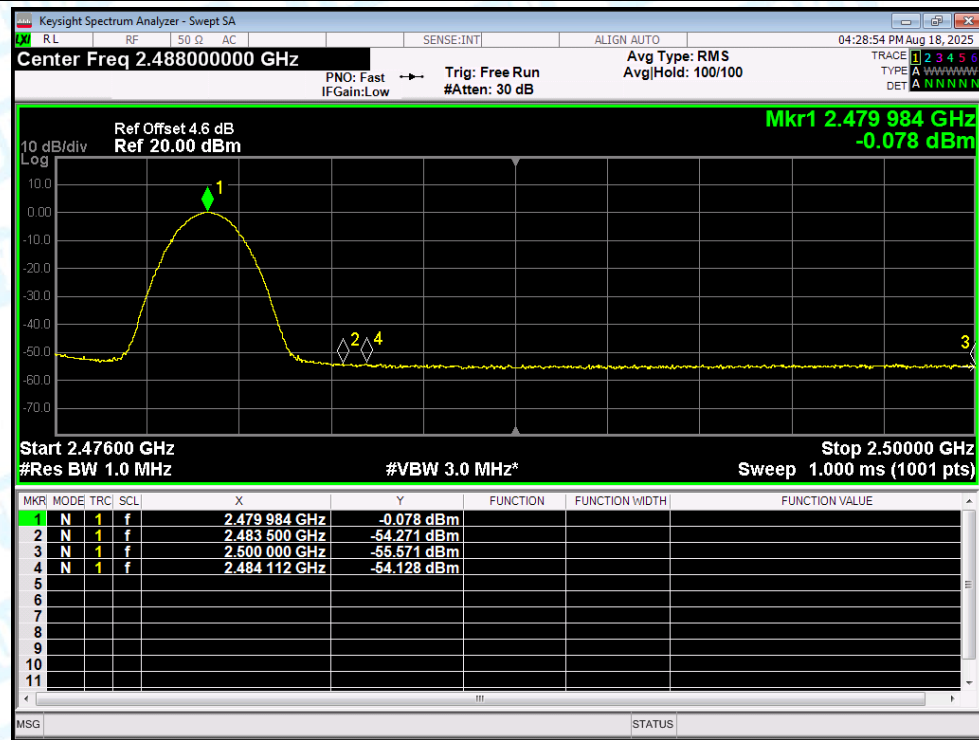
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



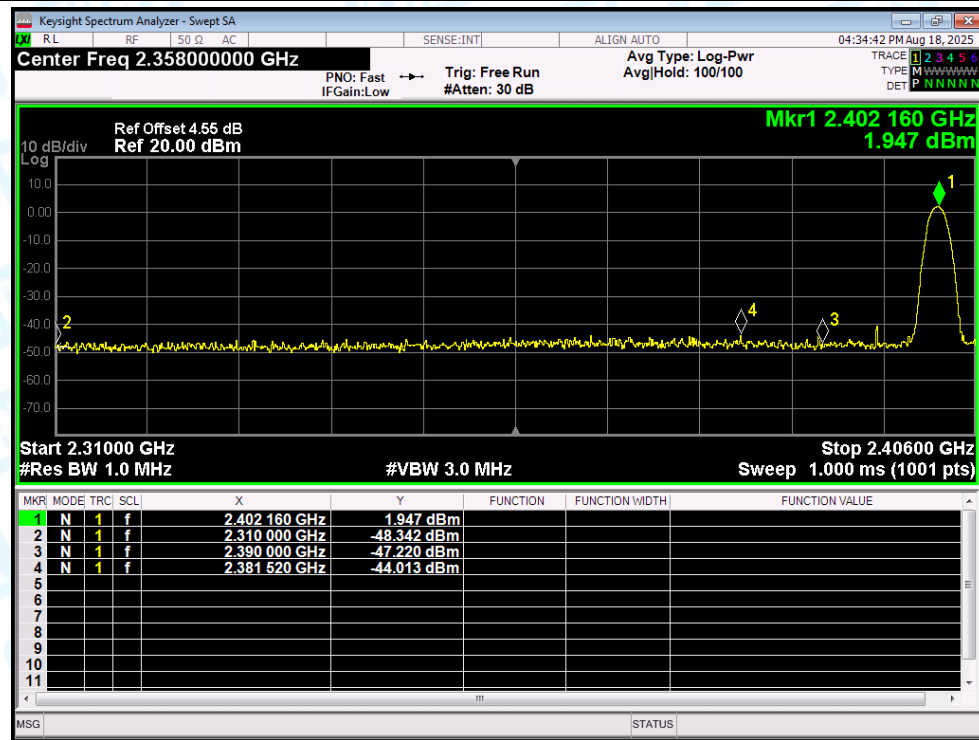
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



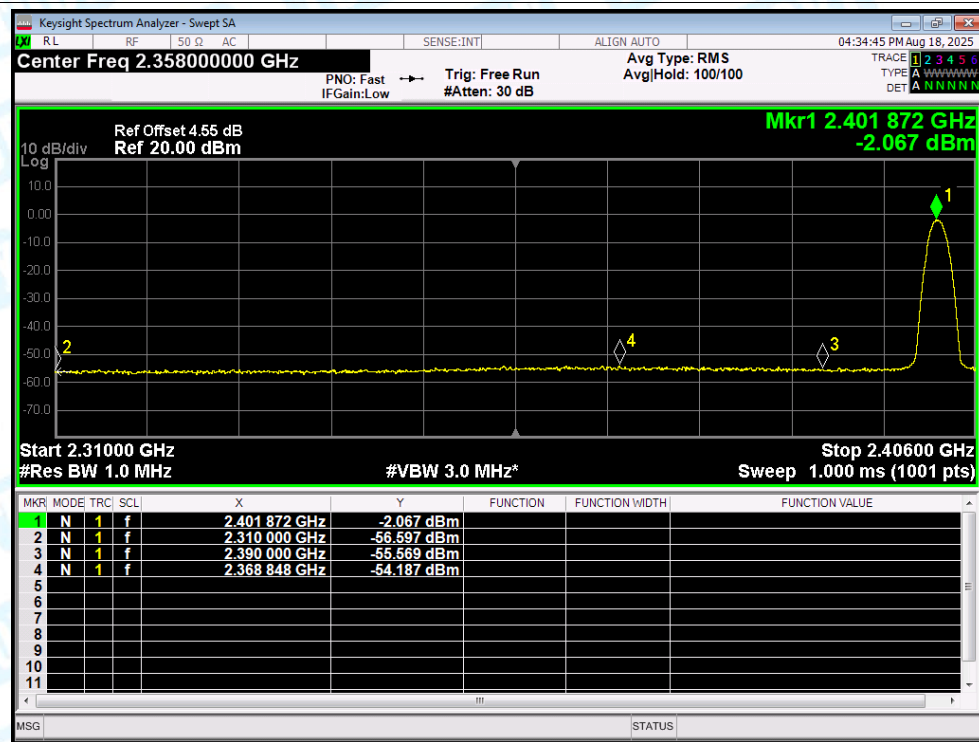
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



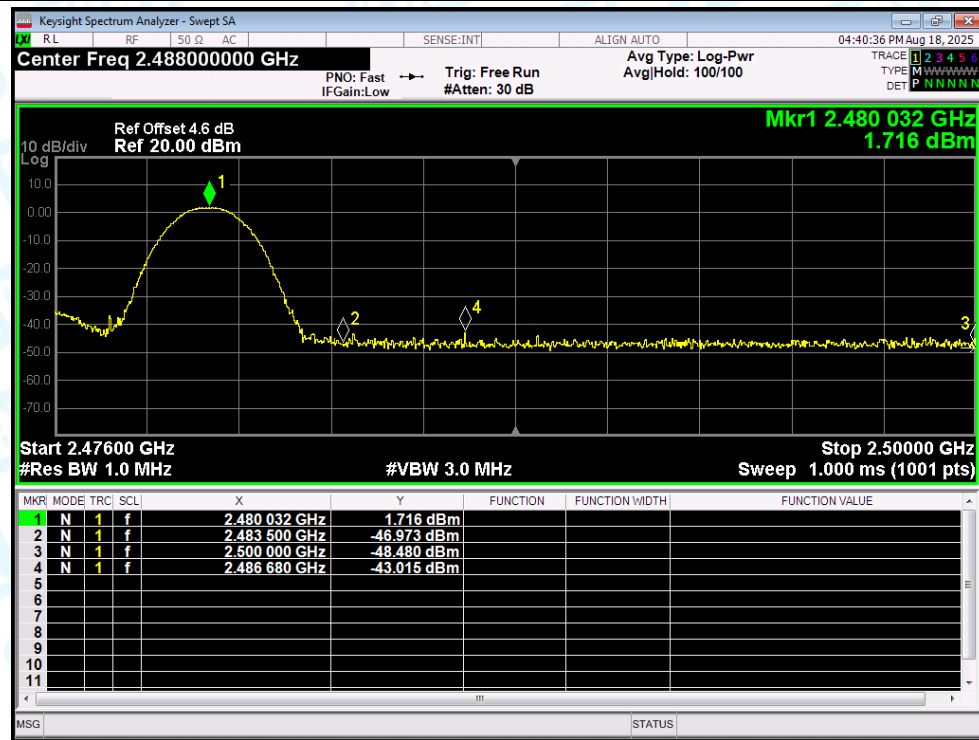
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



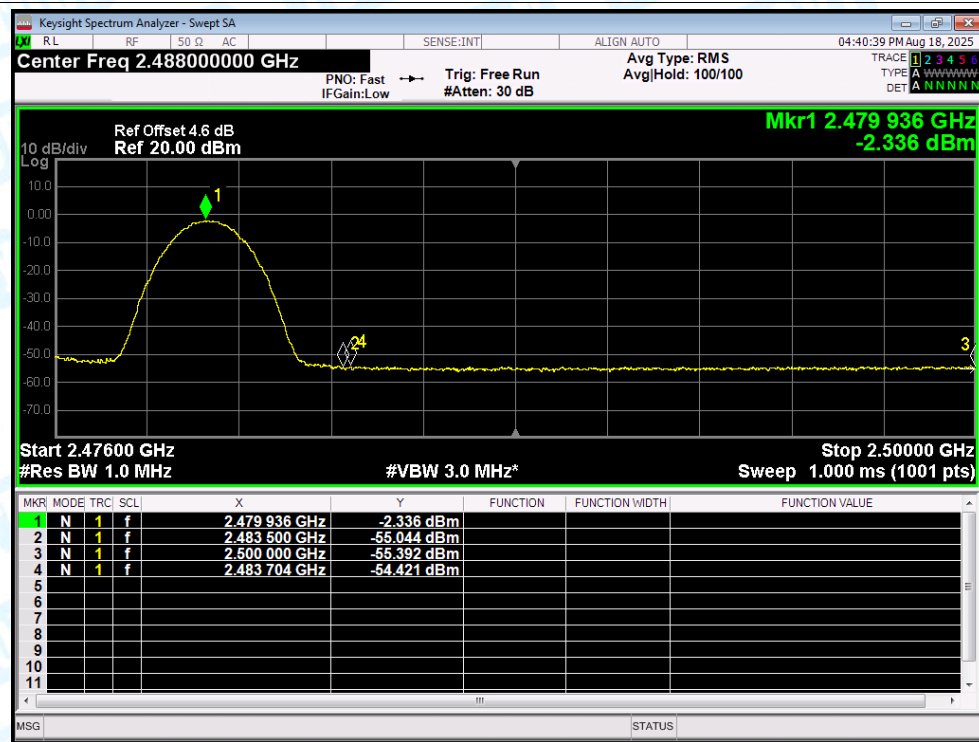
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



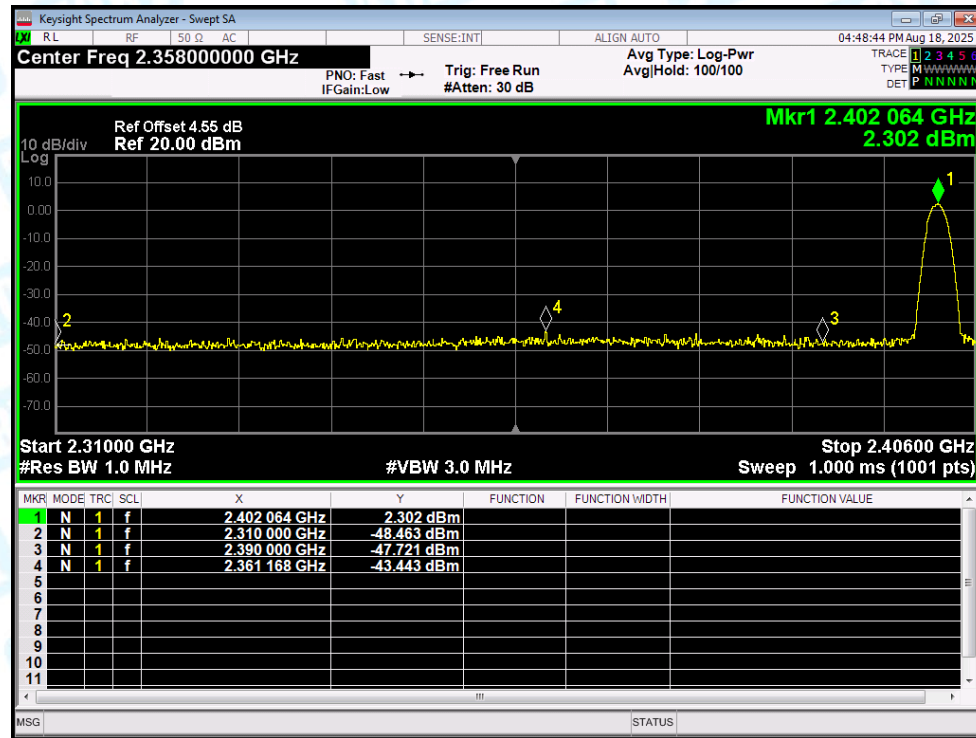
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



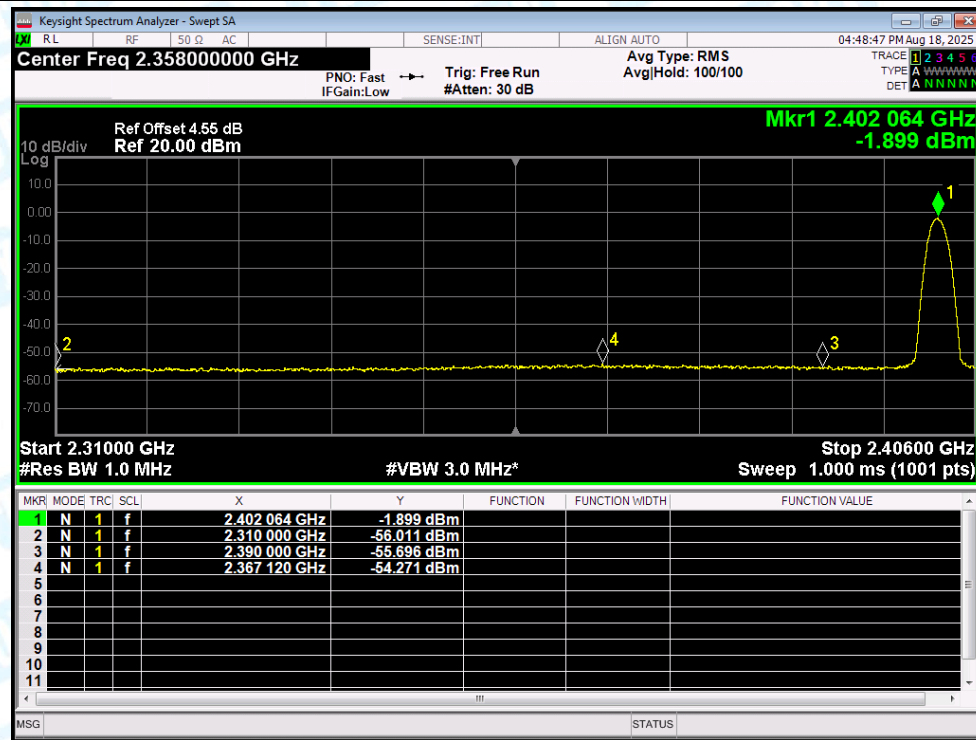
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



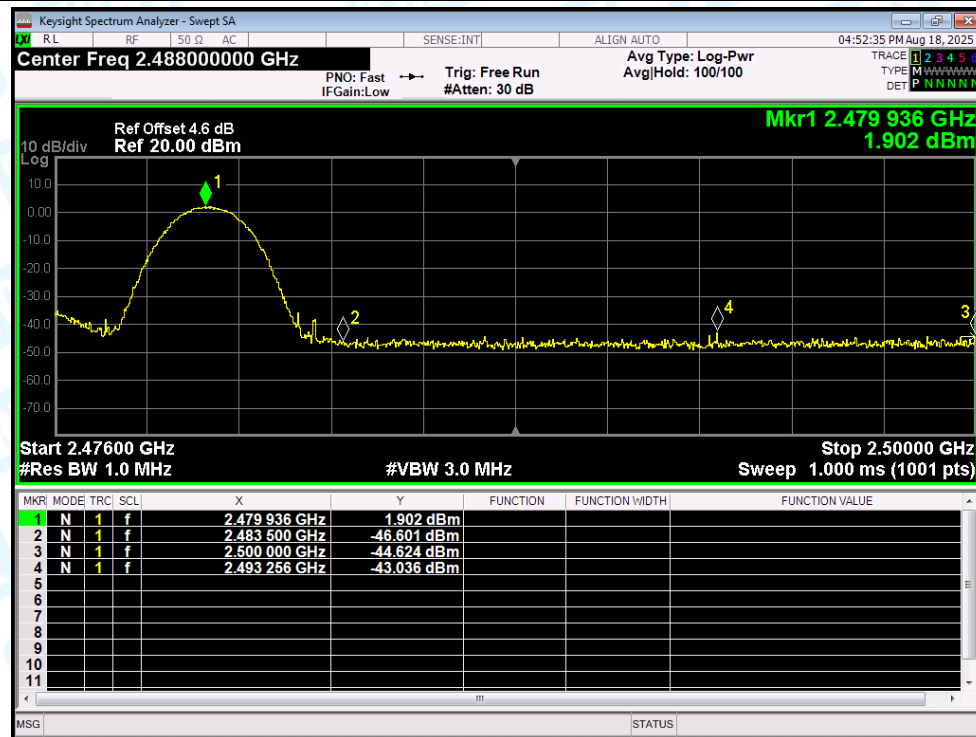
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



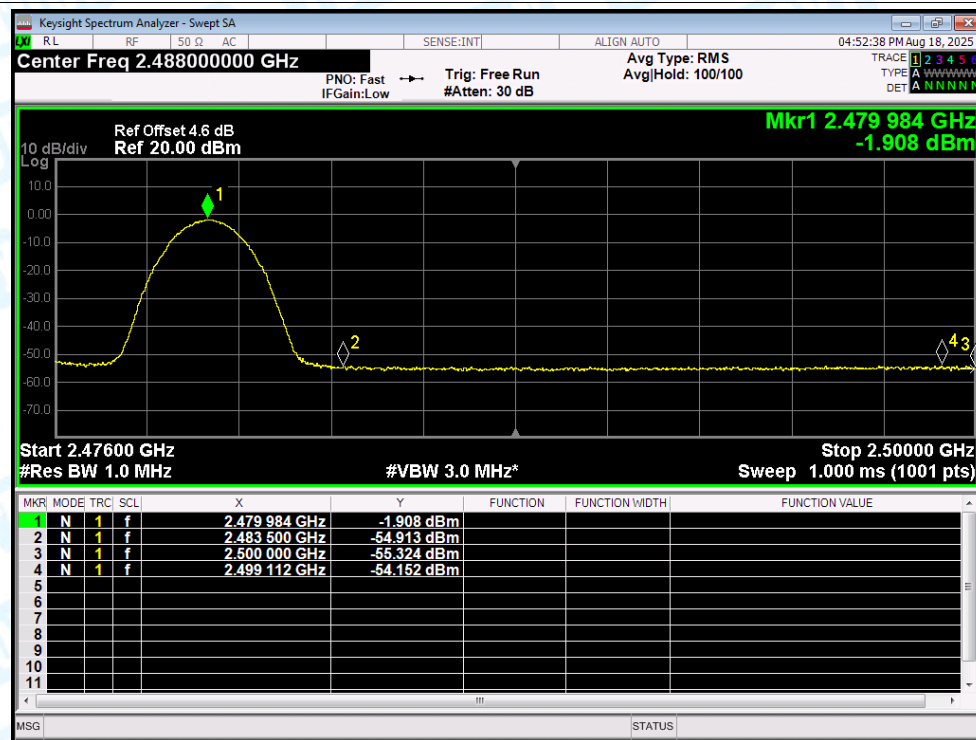
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



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



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

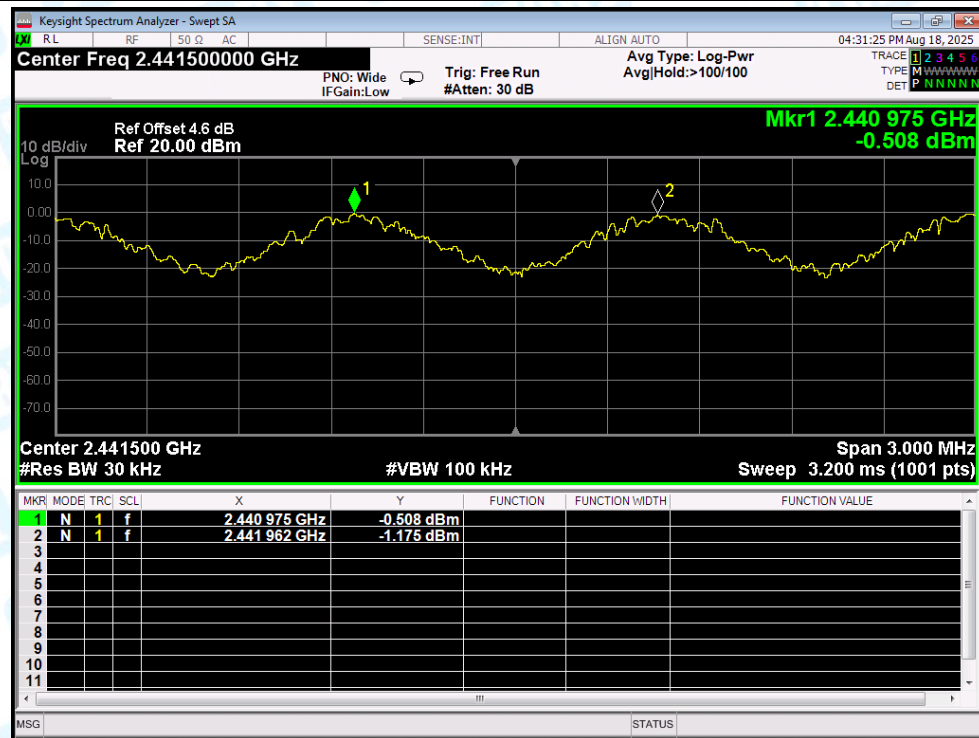


10. Carrier Frequencies Separation

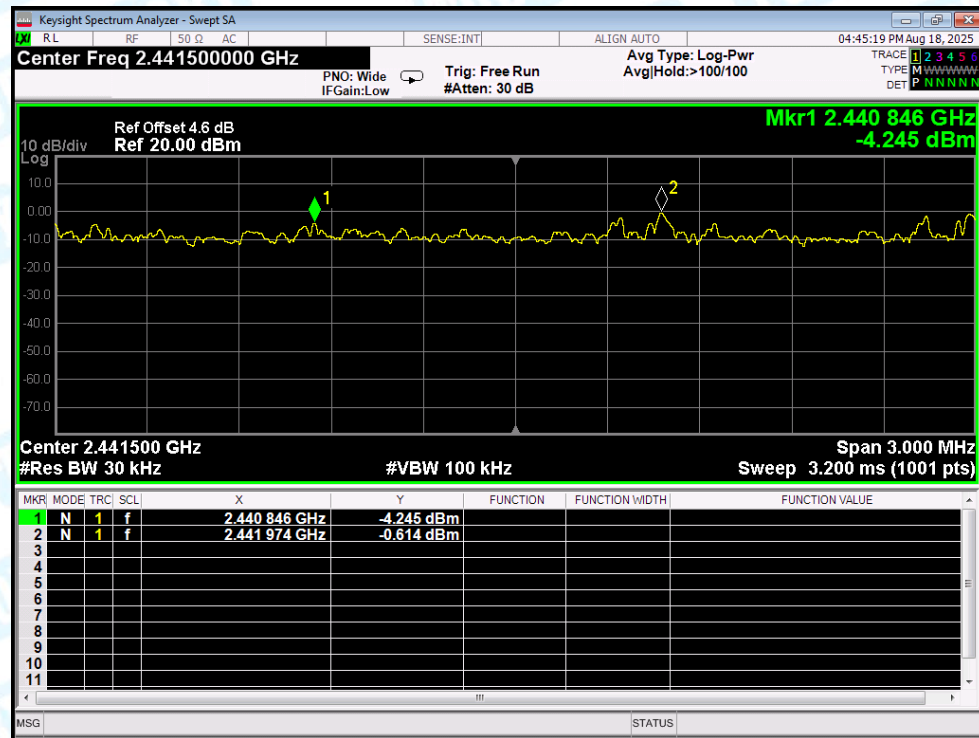
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2440.975	2441.962	0.987	0.667	Pass
NVNT	2-DH5	Ant1	2440.846	2441.974	1.128	0.86	Pass
NVNT	3-DH5	Ant1	2440.975	2442.127	1.152	0.86	Pass

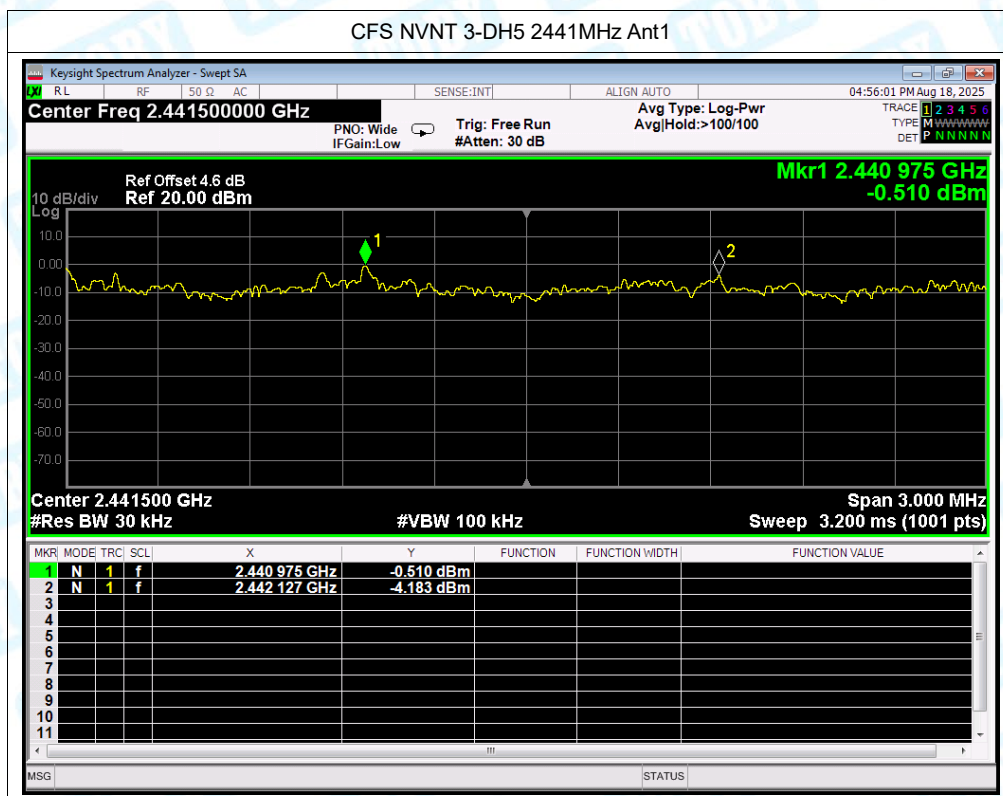
Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



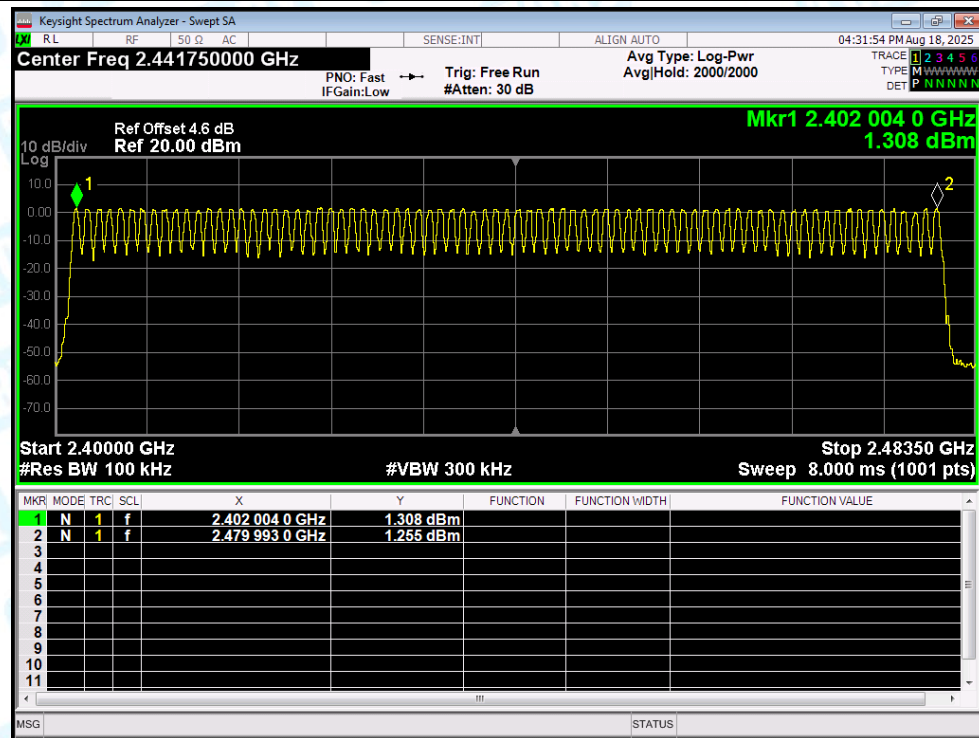


11. Number of Hopping Channel

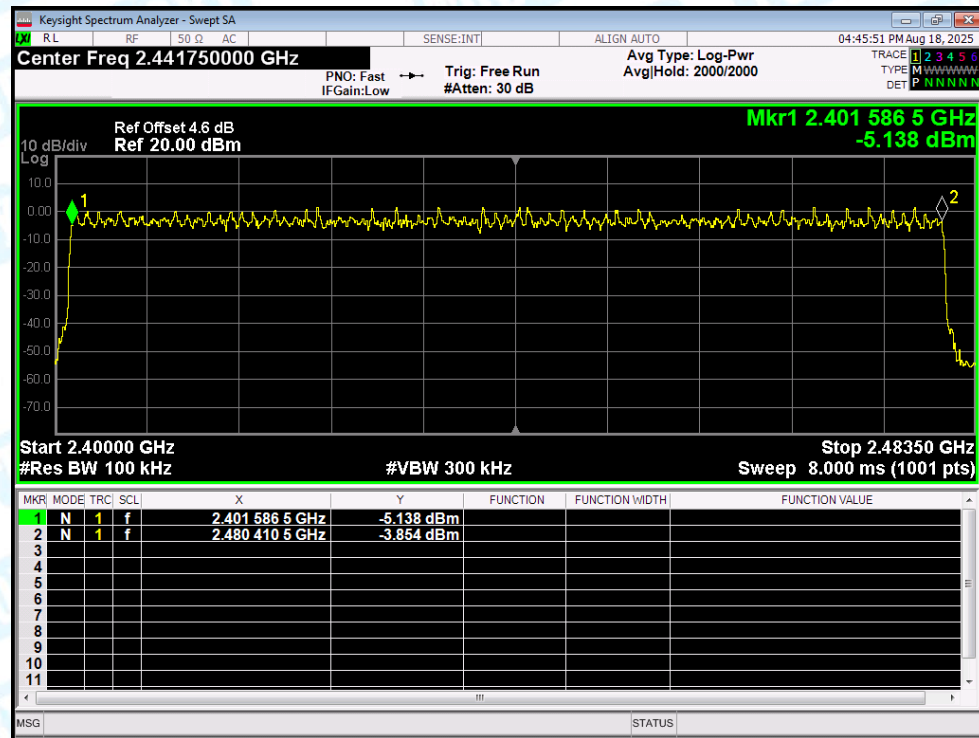
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

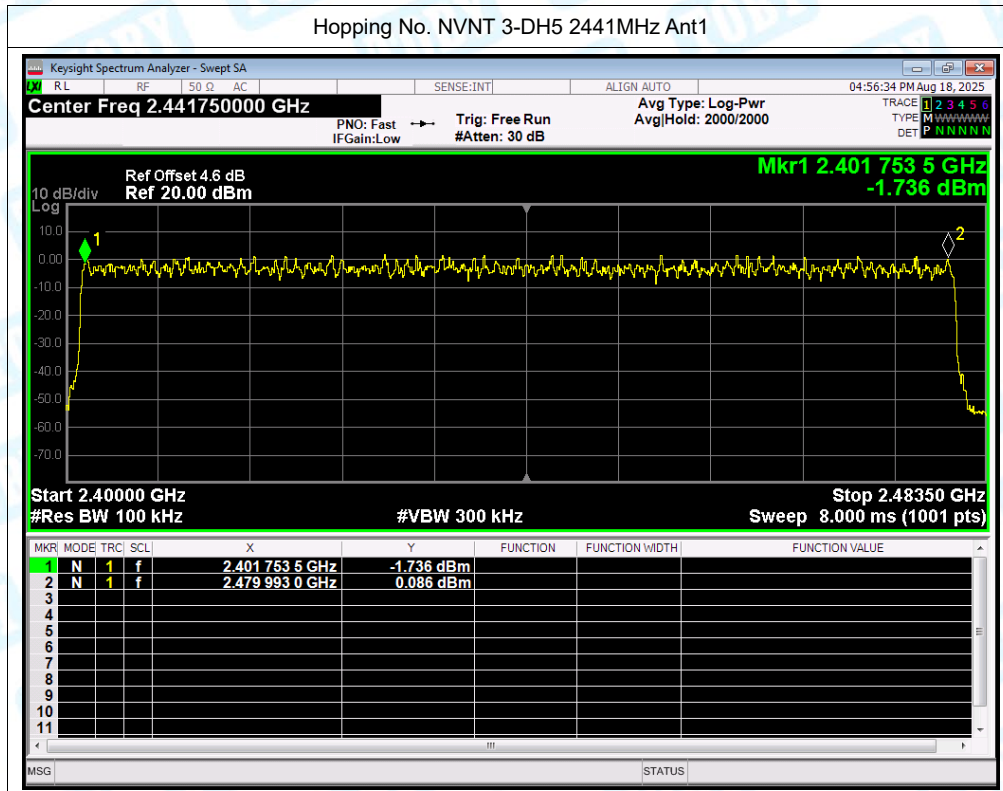
Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1





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