

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	smart glasses
Test Model:	xk one Pro
Sample ID:	HC-C-202506-0066-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Lily. zhang
Note: For a more detailed features description, please refer to the report TBR-C-202506-0066-9 The report only show the worst case data.	

Contents

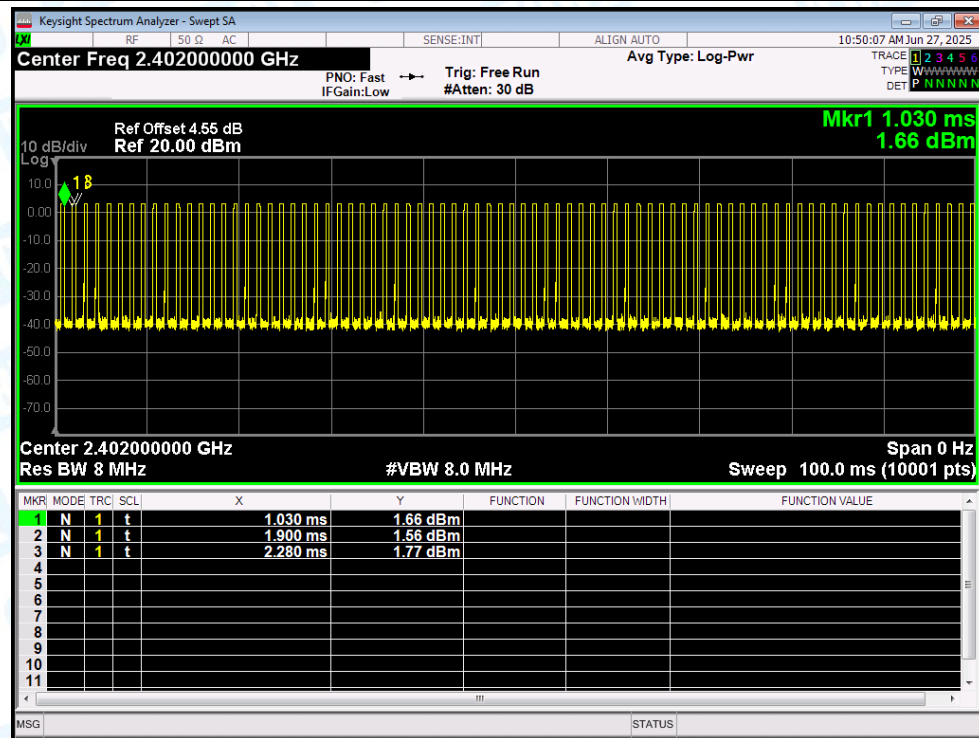
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1. Duty Cycle

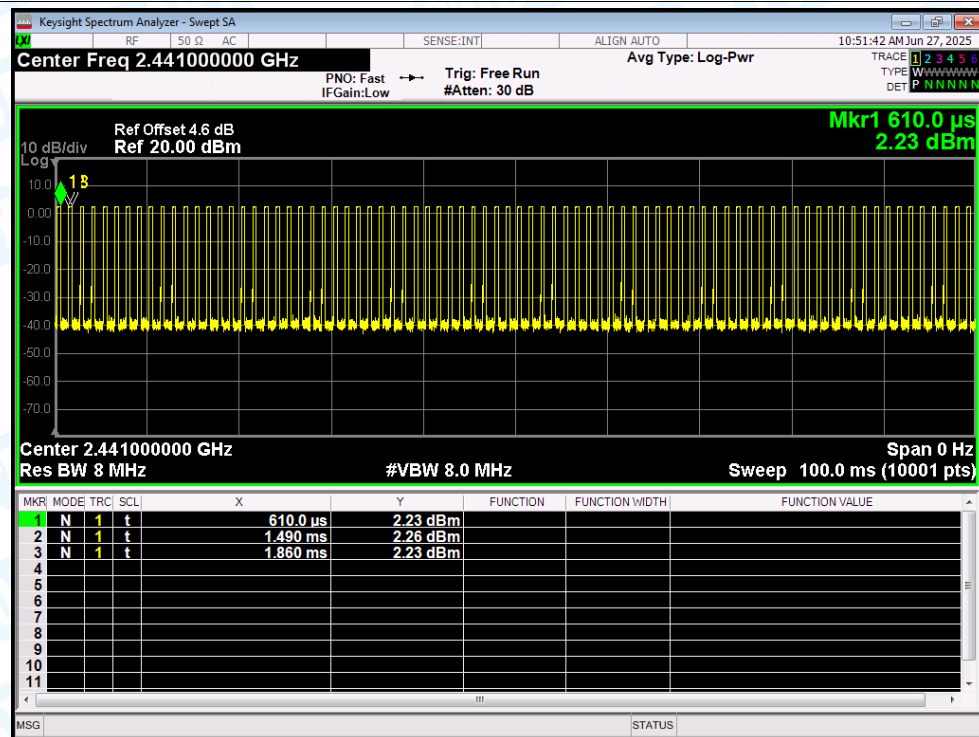
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	29.6	5.29	2.7
NVNT	1-DH1	2480	Ant1	29.6	5.29	2.7
NVNT	2-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2480	Ant1	30.4	5.17	2.63
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

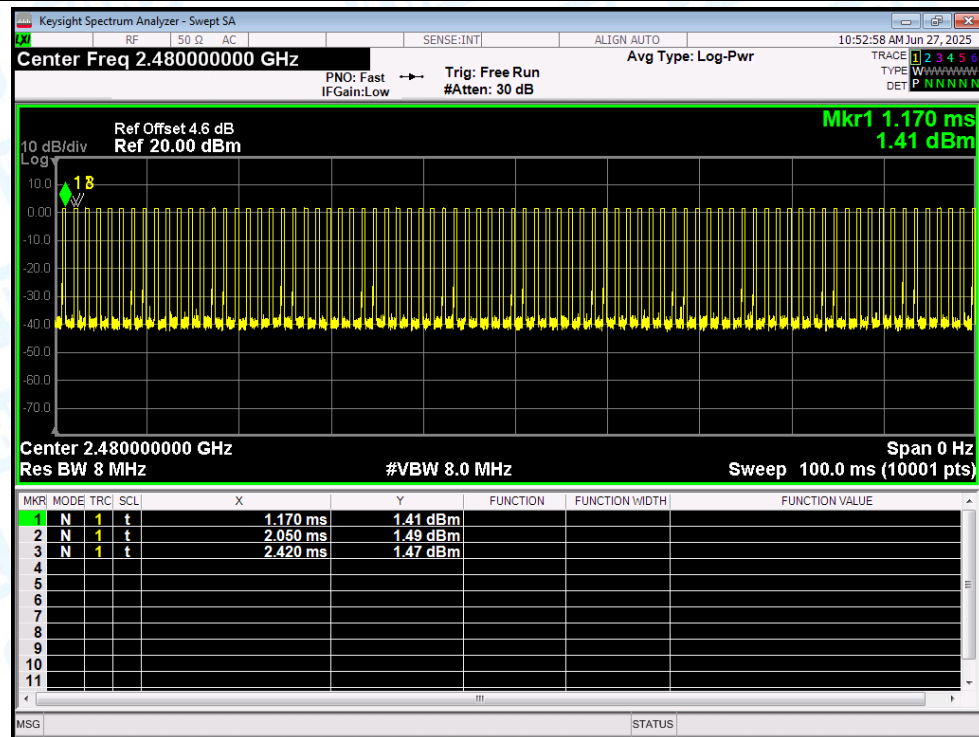
Duty Cycle NVNT 1-DH1 2402MHz Ant1



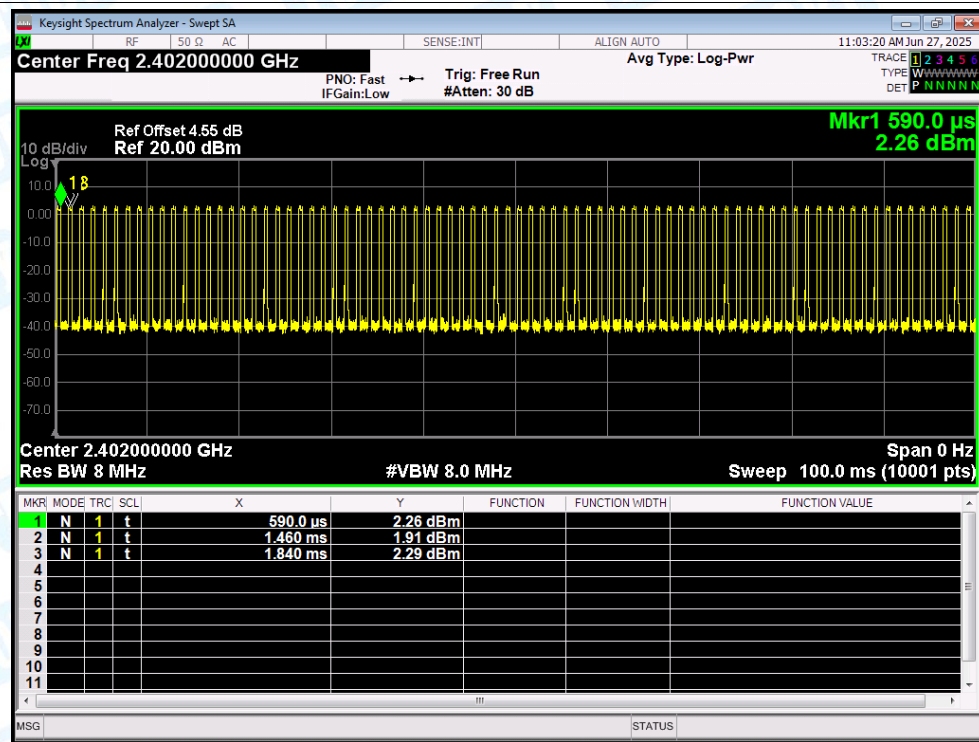
Duty Cycle NVNT 1-DH1 2441MHz Ant1



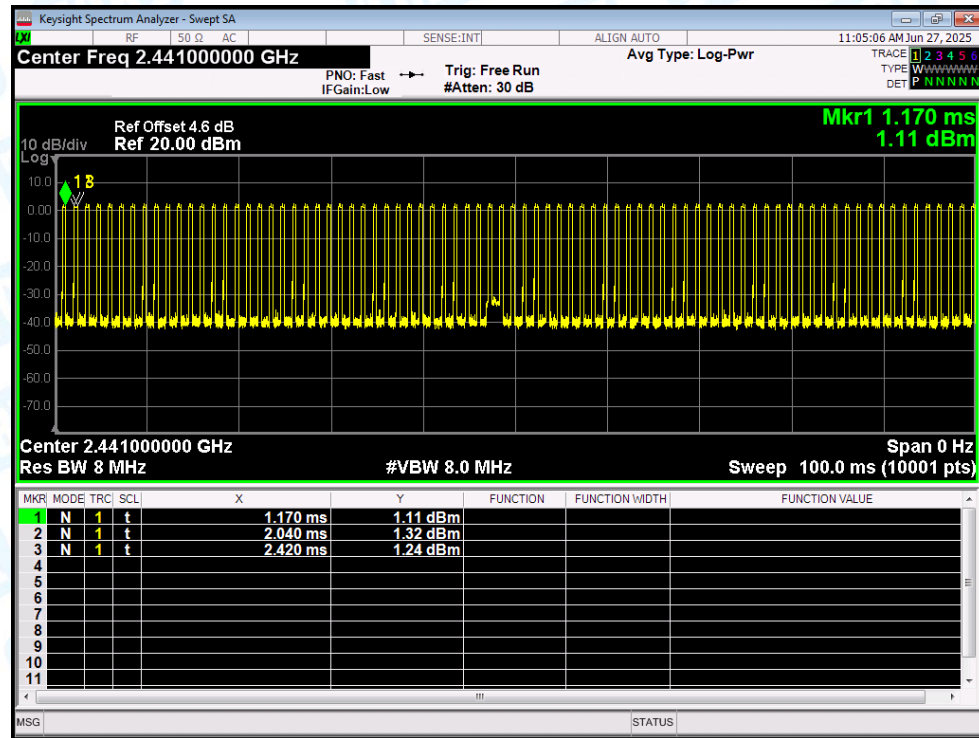
Duty Cycle NVNT 1-DH1 2480MHz Ant1



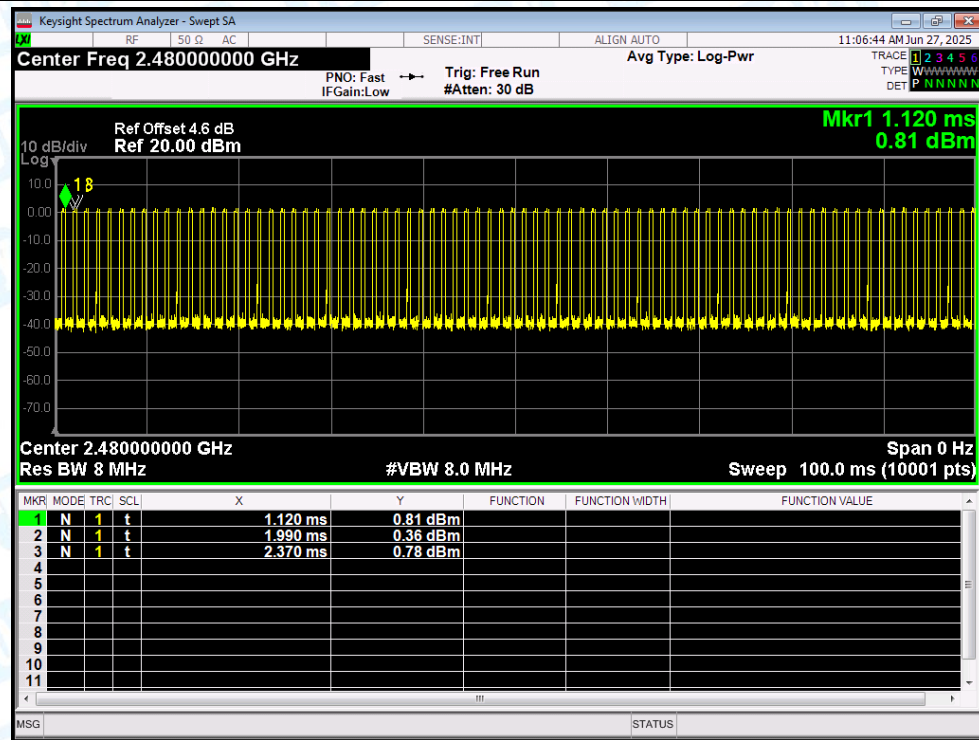
Duty Cycle NVNT 2-DH1 2402MHz Ant1



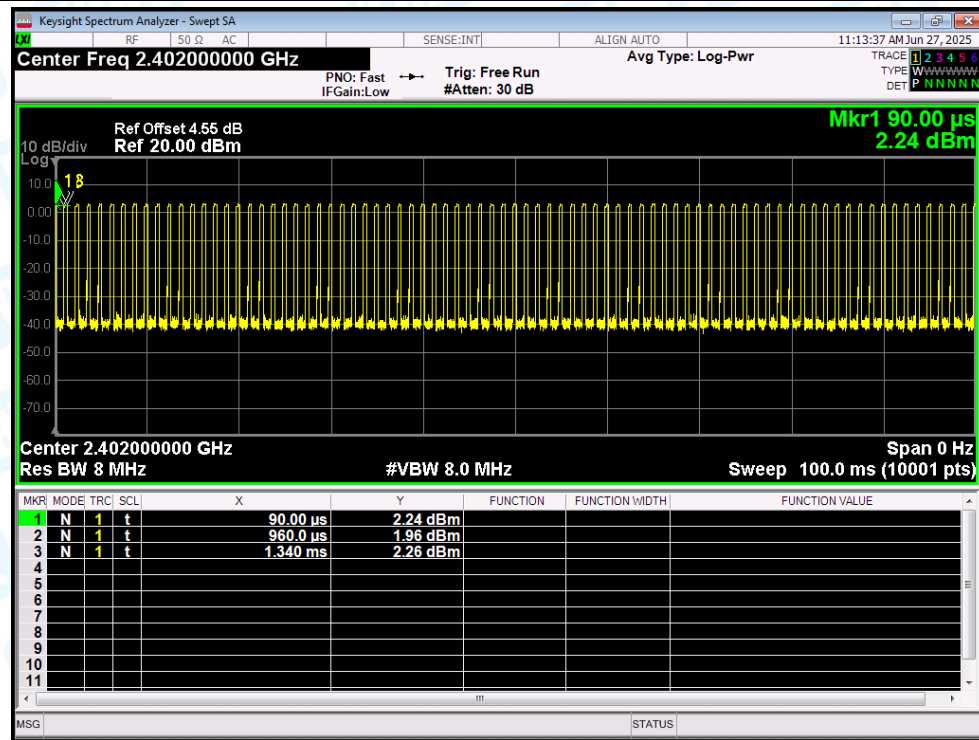
Duty Cycle NVNT 2-DH1 2441MHz Ant1



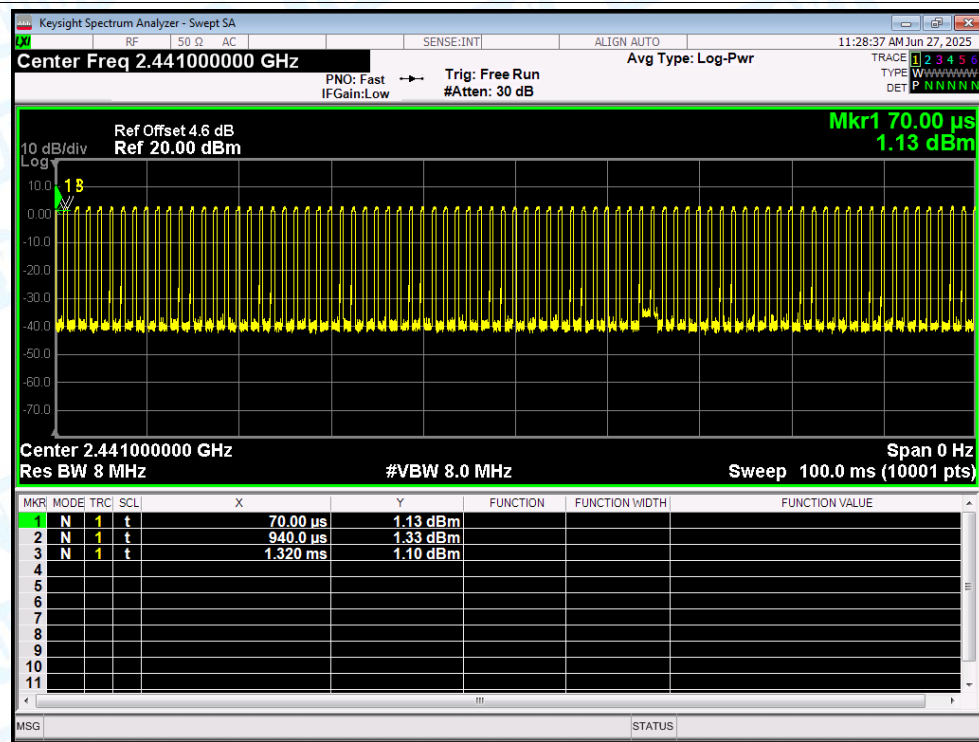
Duty Cycle NVNT 2-DH1 2480MHz Ant1

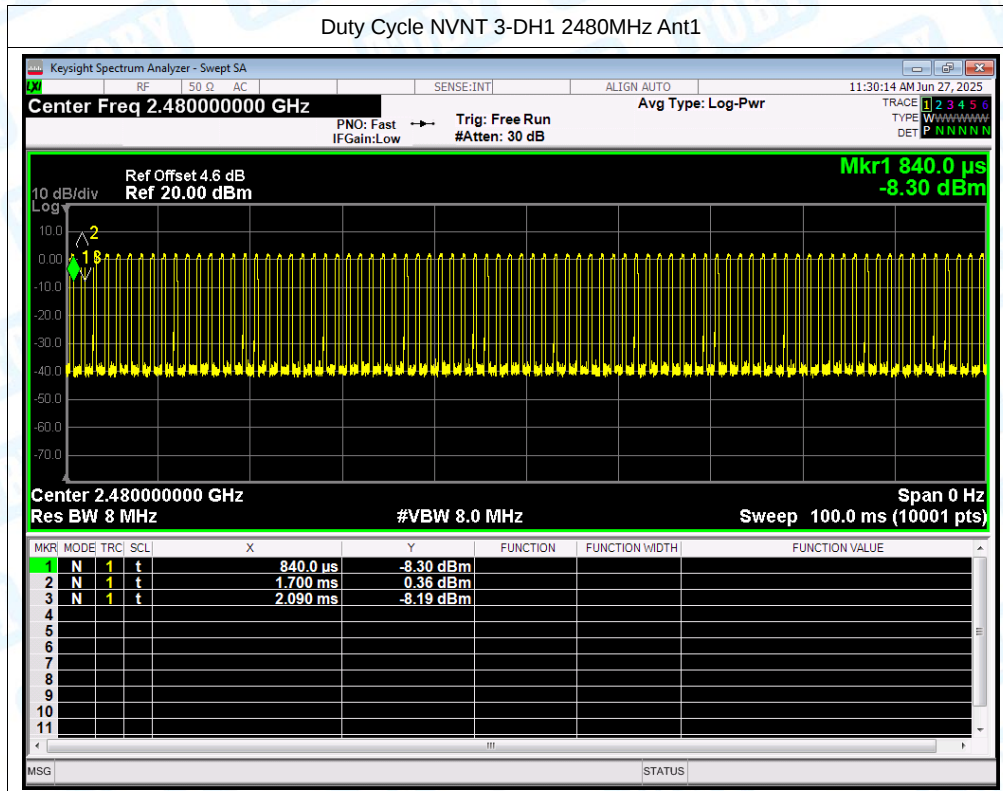


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



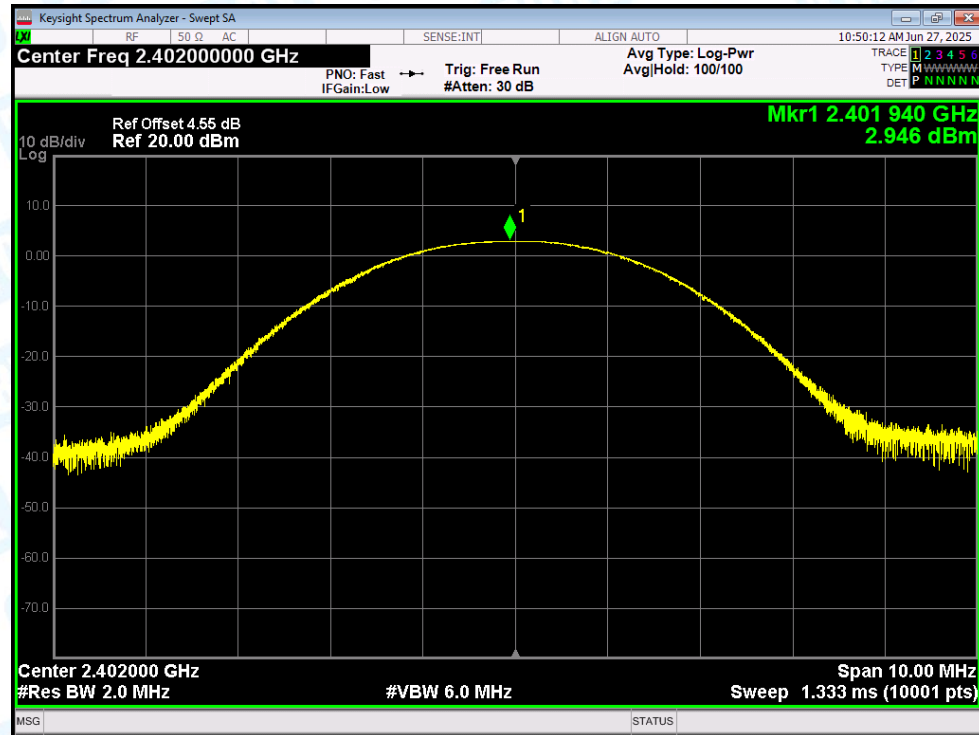


2. Maximum Conducted Output Power

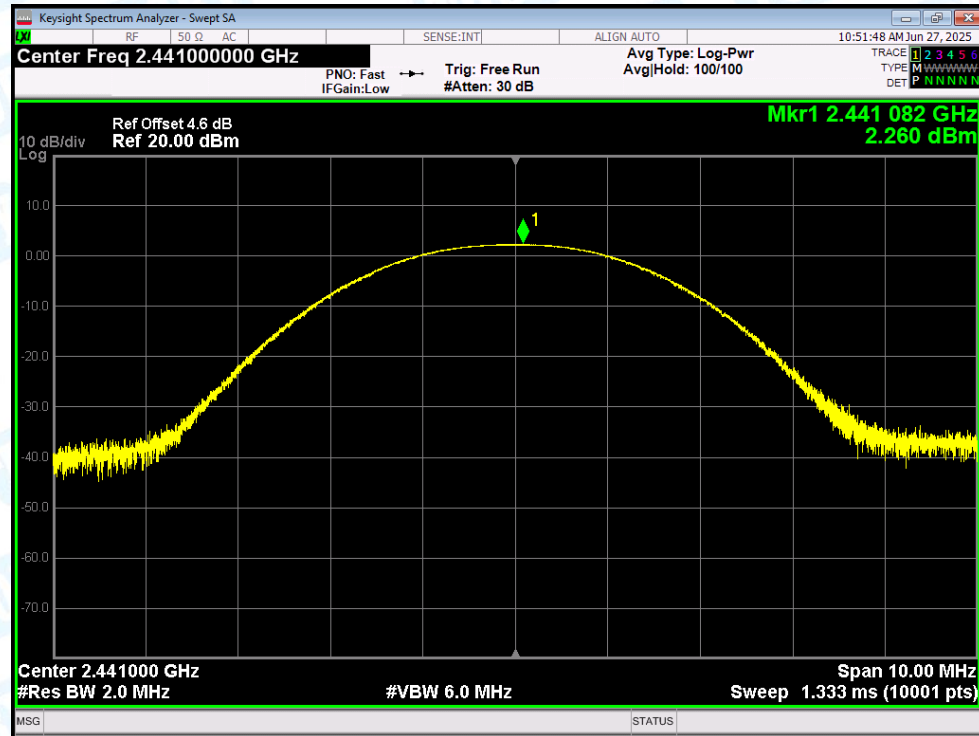
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.946	21	Pass
NVNT	1-DH1	2441	Ant1	2.260	21	Pass
NVNT	1-DH1	2480	Ant1	1.430	21	Pass
NVNT	2-DH1	2402	Ant1	3.148	21	Pass
NVNT	2-DH1	2441	Ant1	2.150	21	Pass
NVNT	2-DH1	2480	Ant1	1.278	21	Pass
NVNT	3-DH1	2402	Ant1	3.411	21	Pass
NVNT	3-DH1	2441	Ant1	2.732	21	Pass
NVNT	3-DH1	2480	Ant1	1.976	21	Pass

Test Graphs

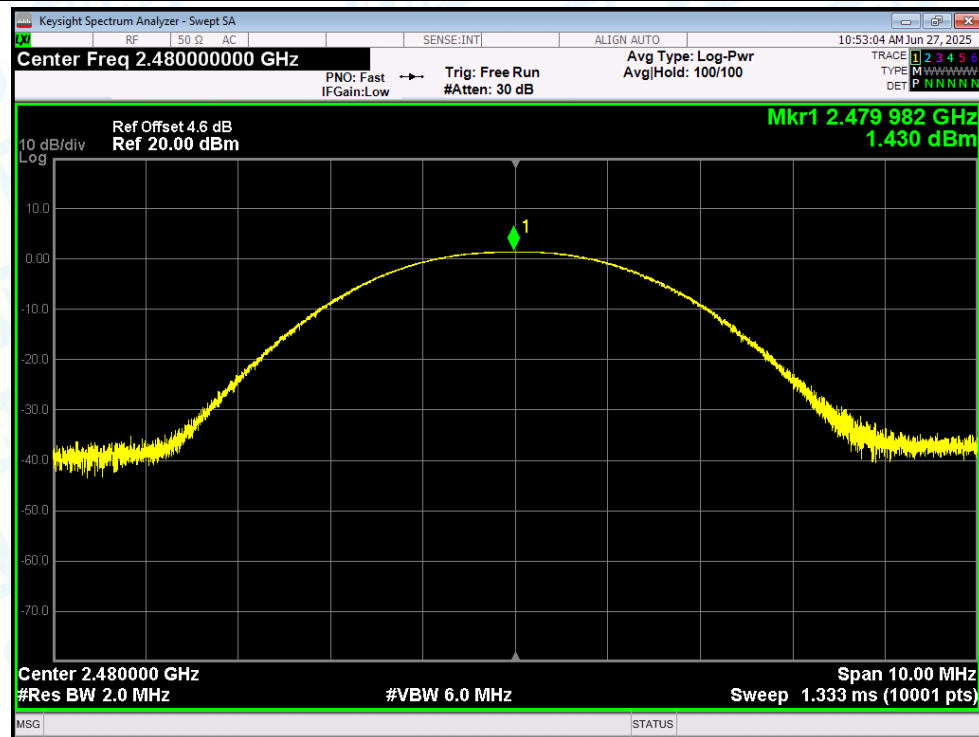
Power NVNT 1-DH1 2402MHz Ant1



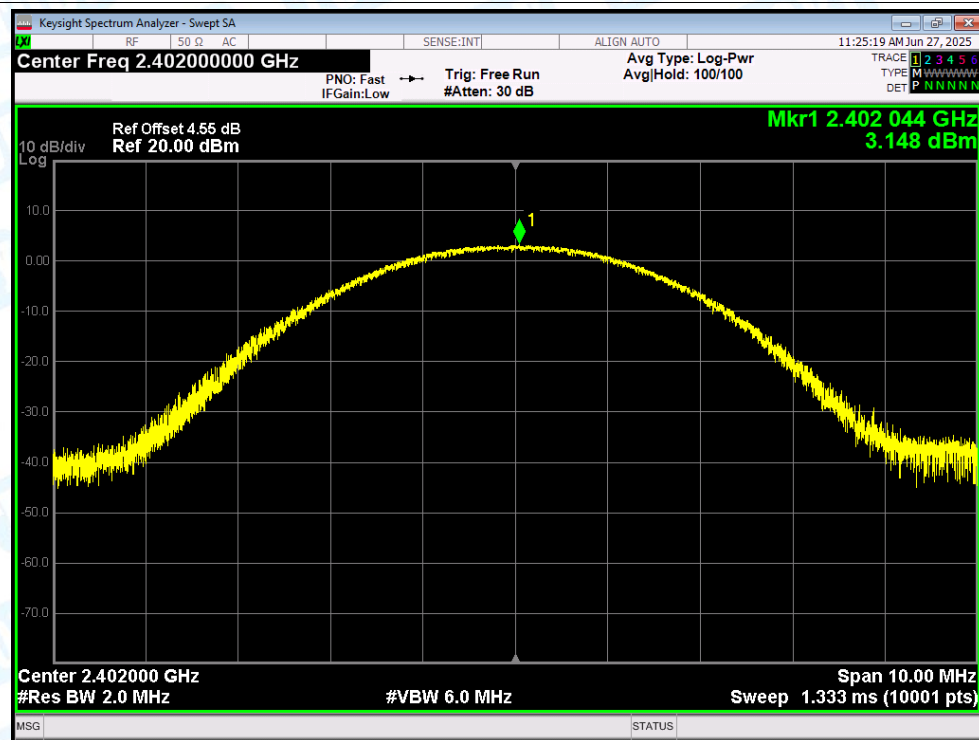
Power NVNT 1-DH1 2441MHz Ant1



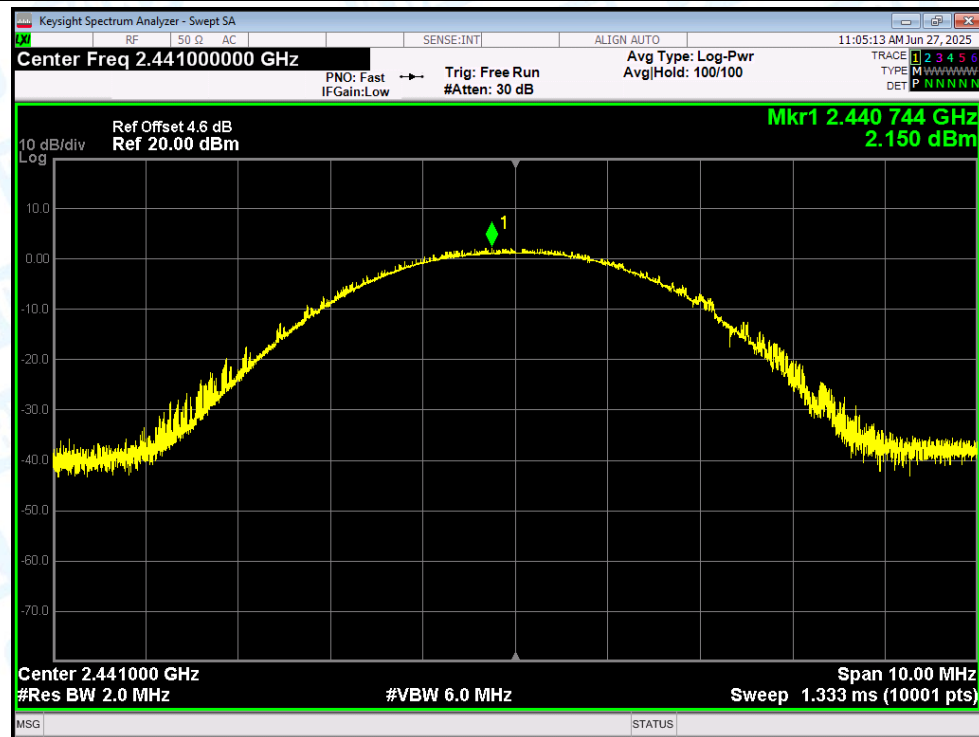
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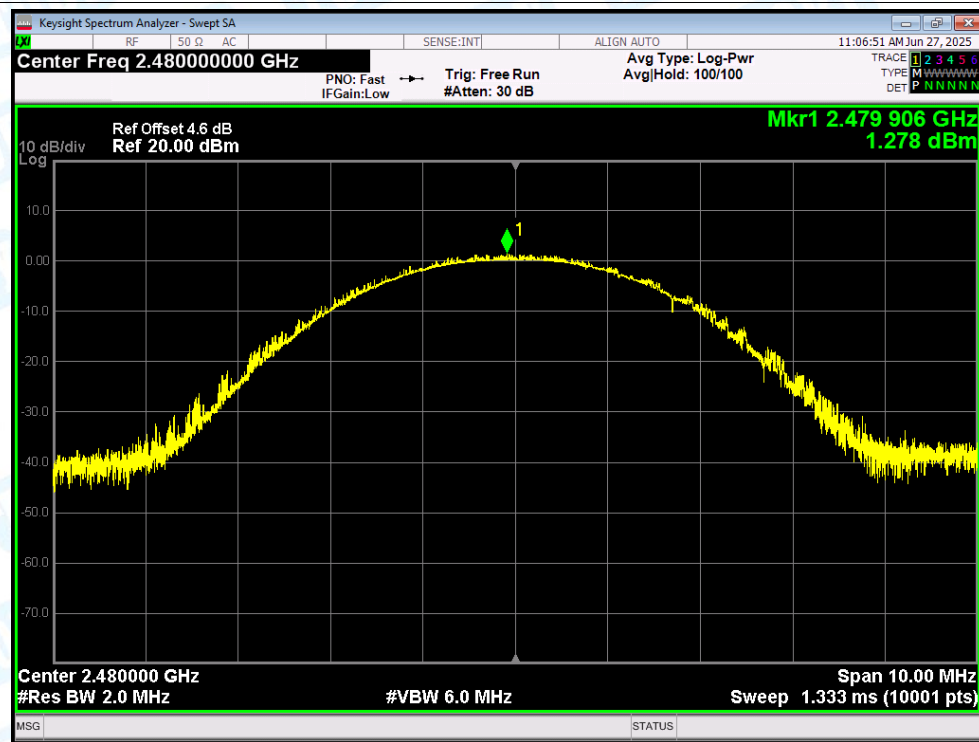
Power NVNT 2-DH1 2402MHz Ant1



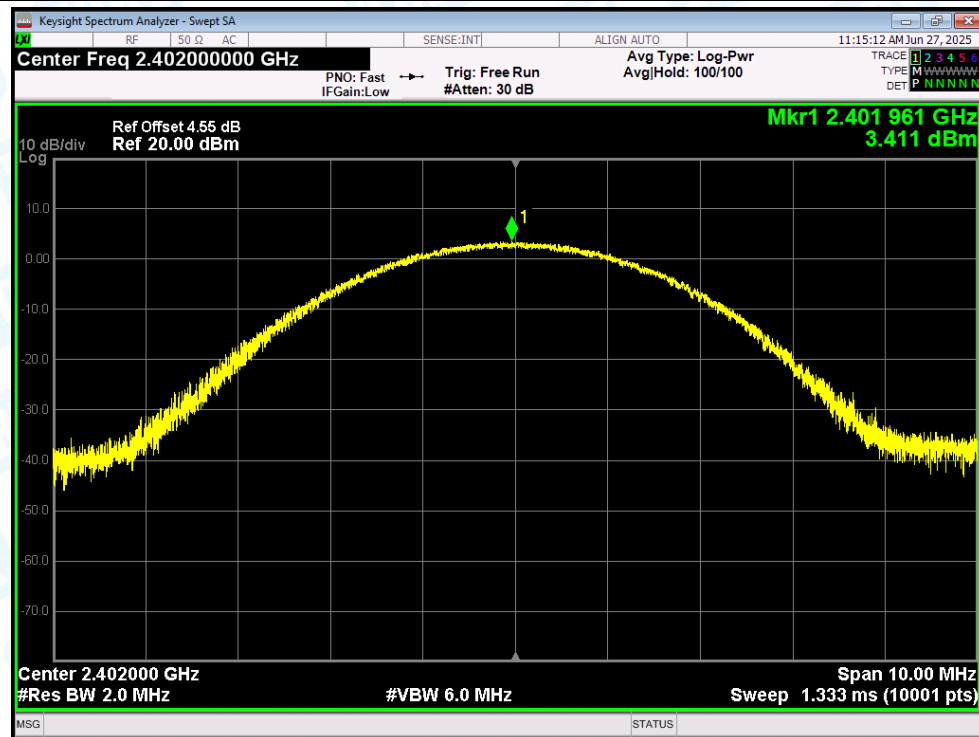
Power NVNT 2-DH1 2441MHz Ant1



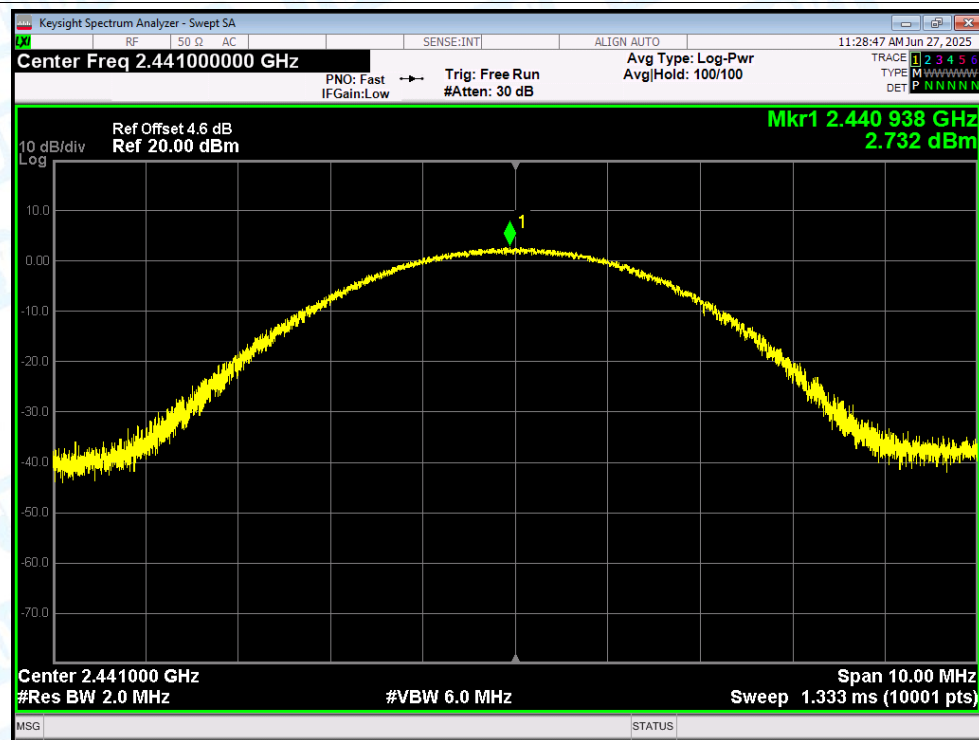
Power NVNT 2-DH1 2480MHz Ant1

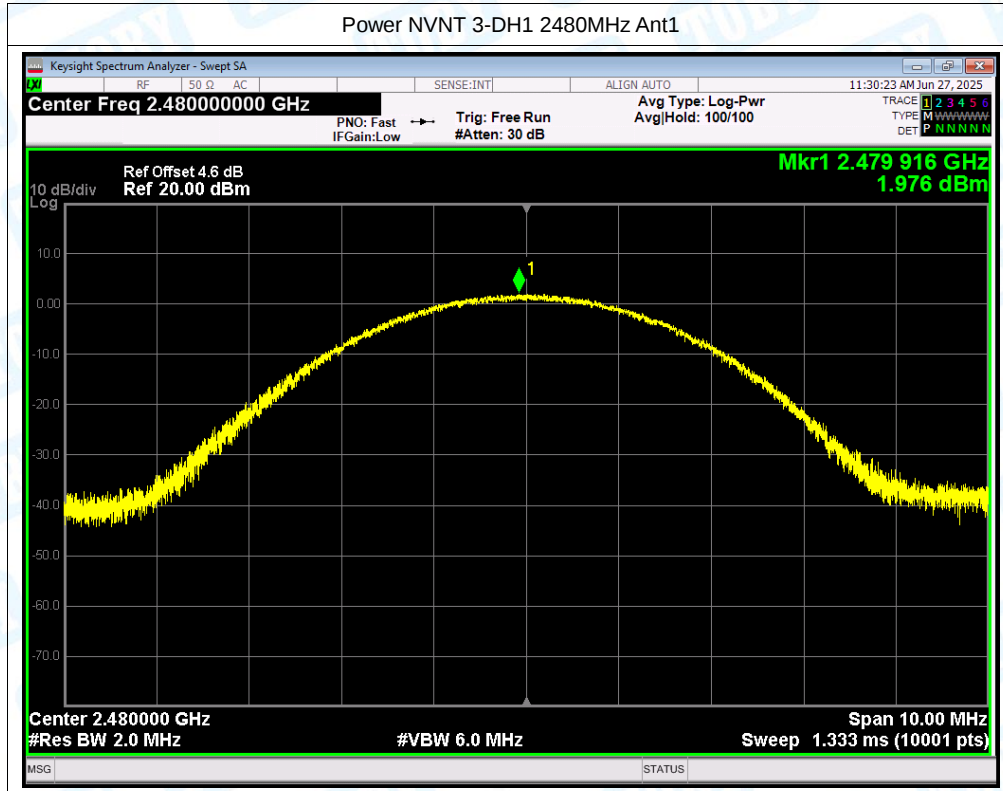


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



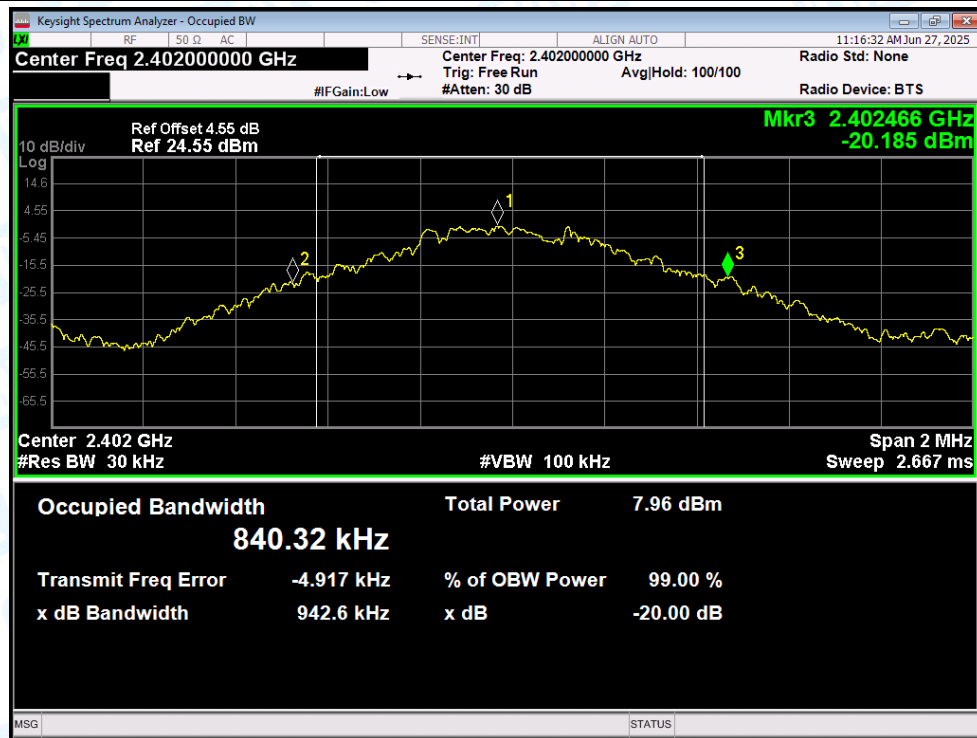


3. -20dB Bandwidth

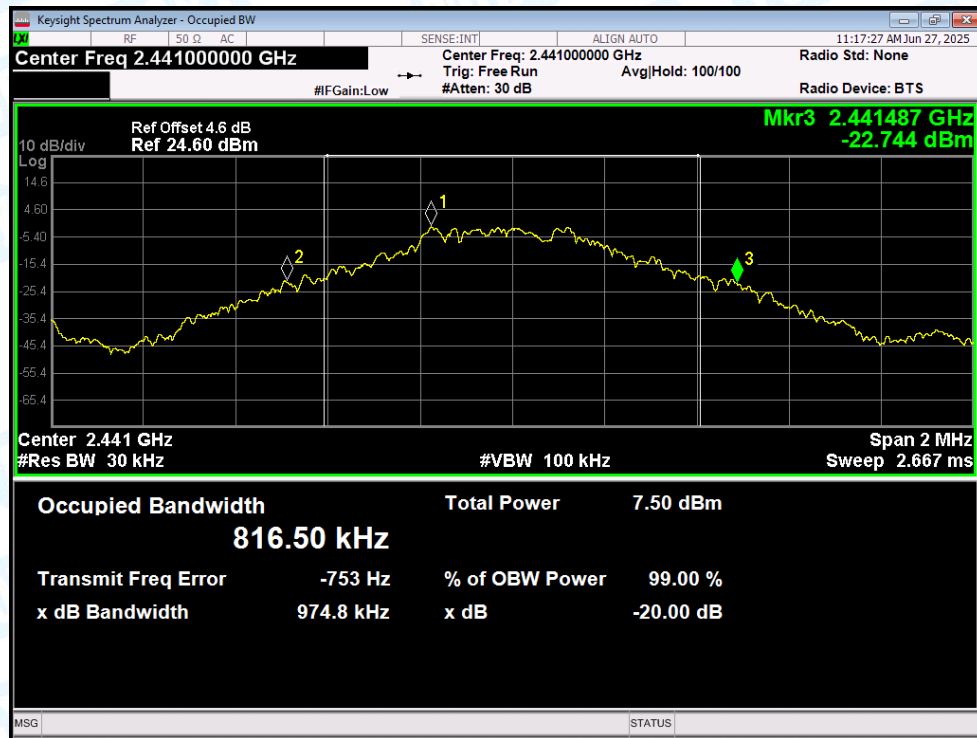
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.94	----	Pass
NVNT	1-DH1	2441	Ant1	0.97	----	Pass
NVNT	1-DH1	2480	Ant1	0.92	----	Pass
NVNT	2-DH1	2402	Ant1	1.26	----	Pass
NVNT	2-DH1	2441	Ant1	1.27	----	Pass
NVNT	2-DH1	2480	Ant1	1.22	----	Pass
NVNT	3-DH1	2402	Ant1	1.25	----	Pass
NVNT	3-DH1	2441	Ant1	1.29	----	Pass
NVNT	3-DH1	2480	Ant1	1.24	----	Pass

Test Graphs

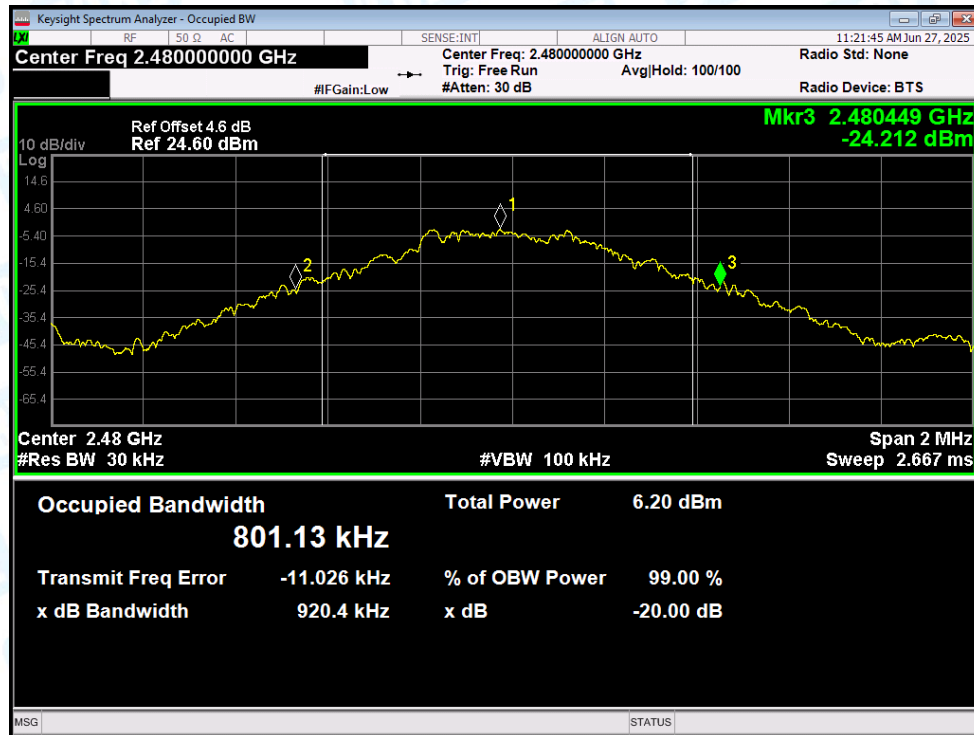
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



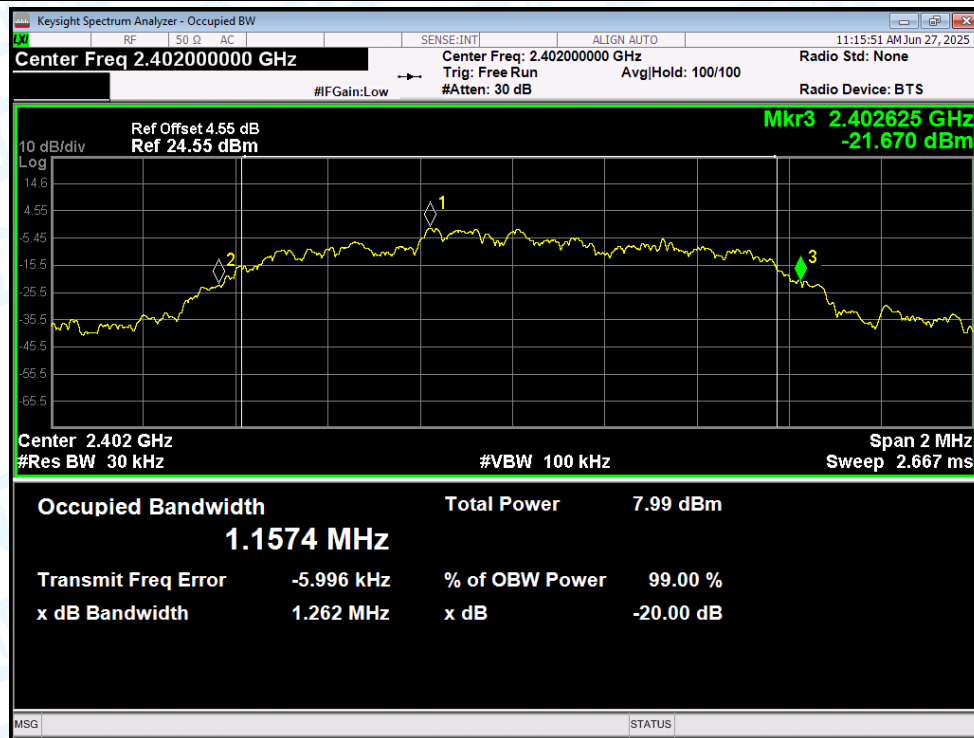
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



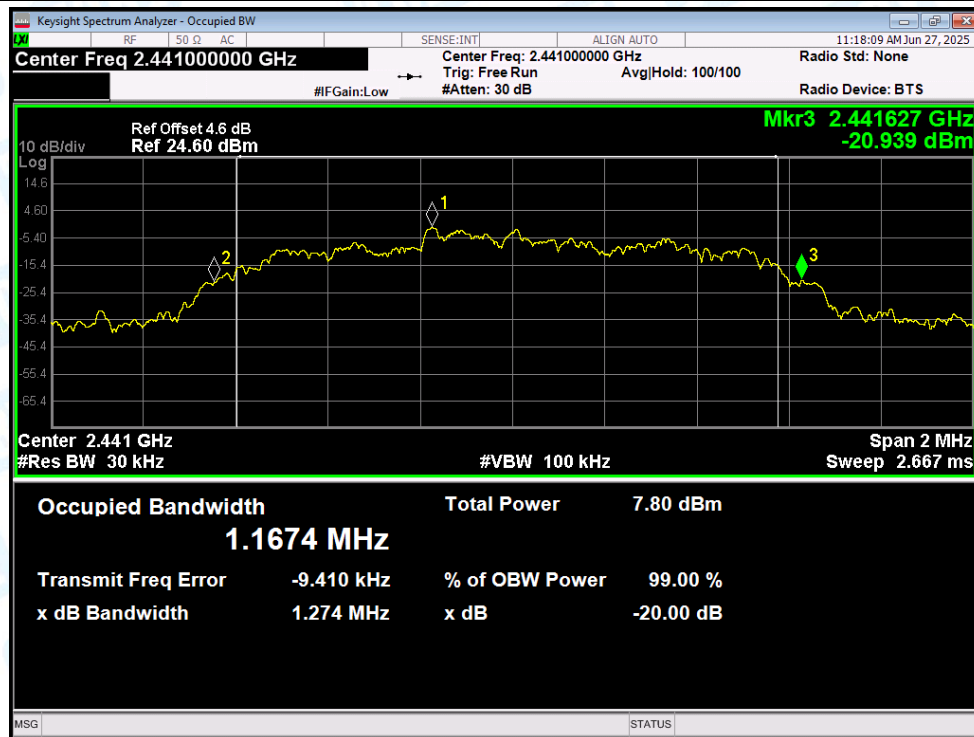
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



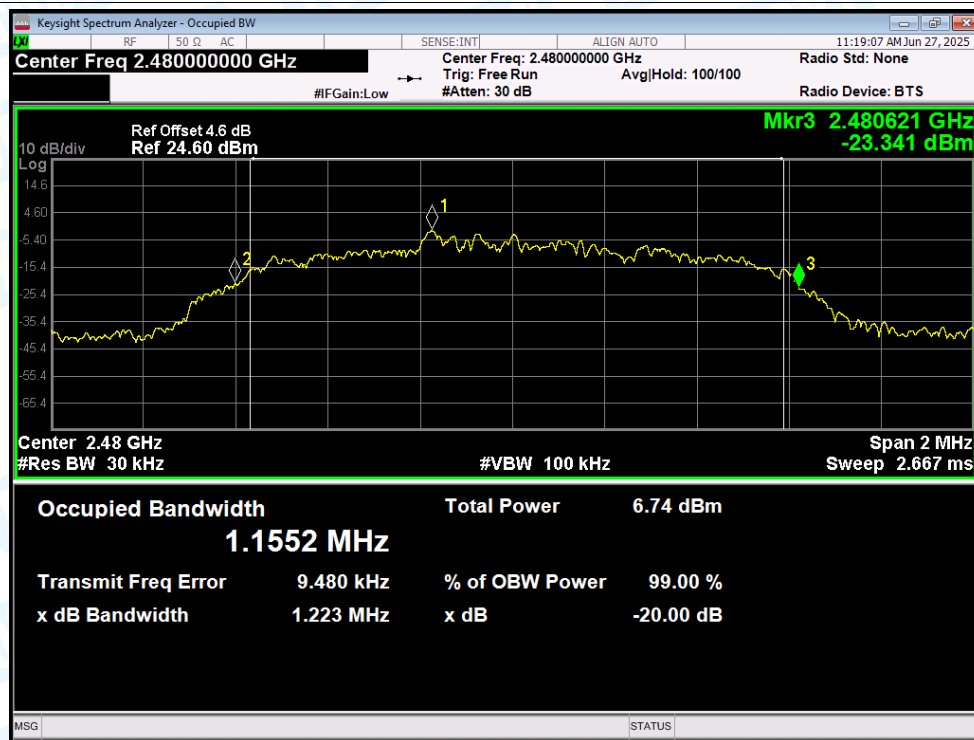
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



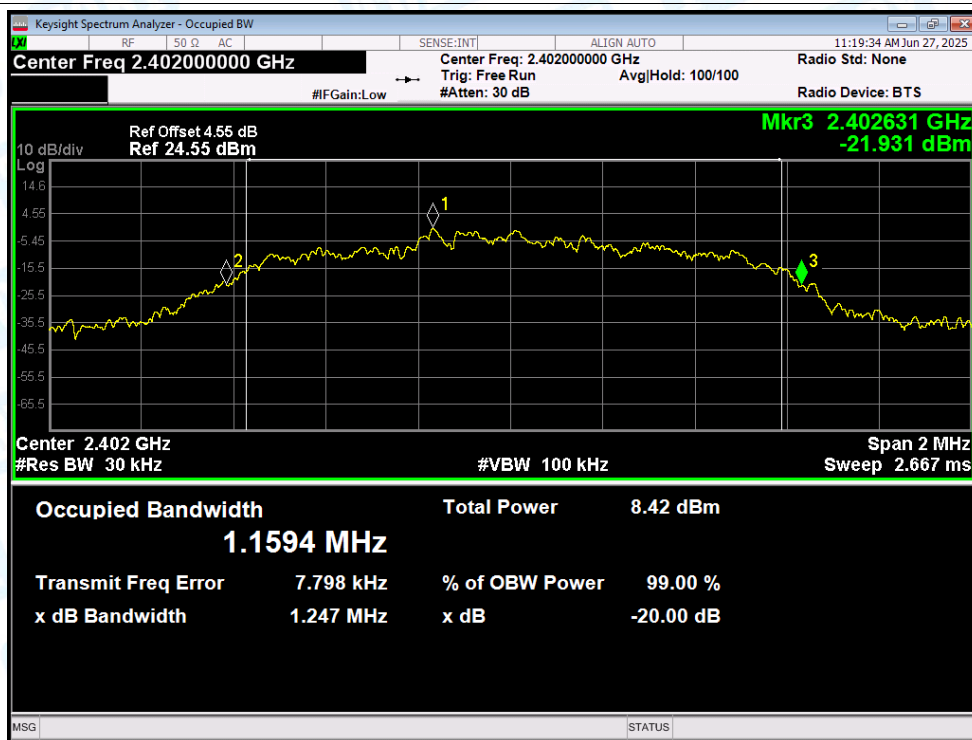
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



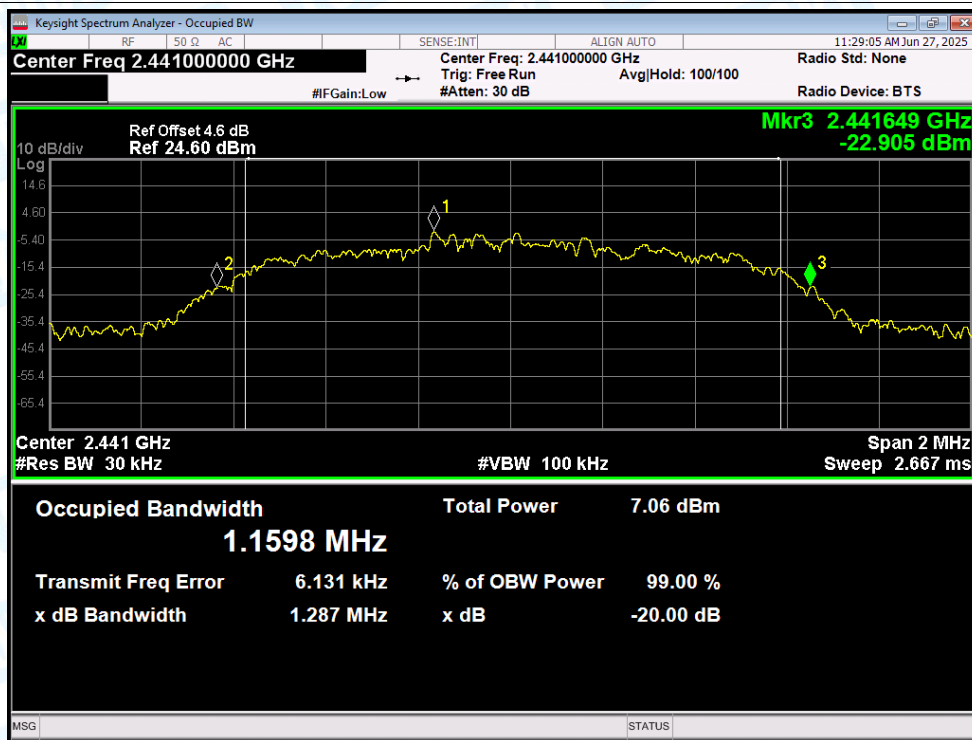
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

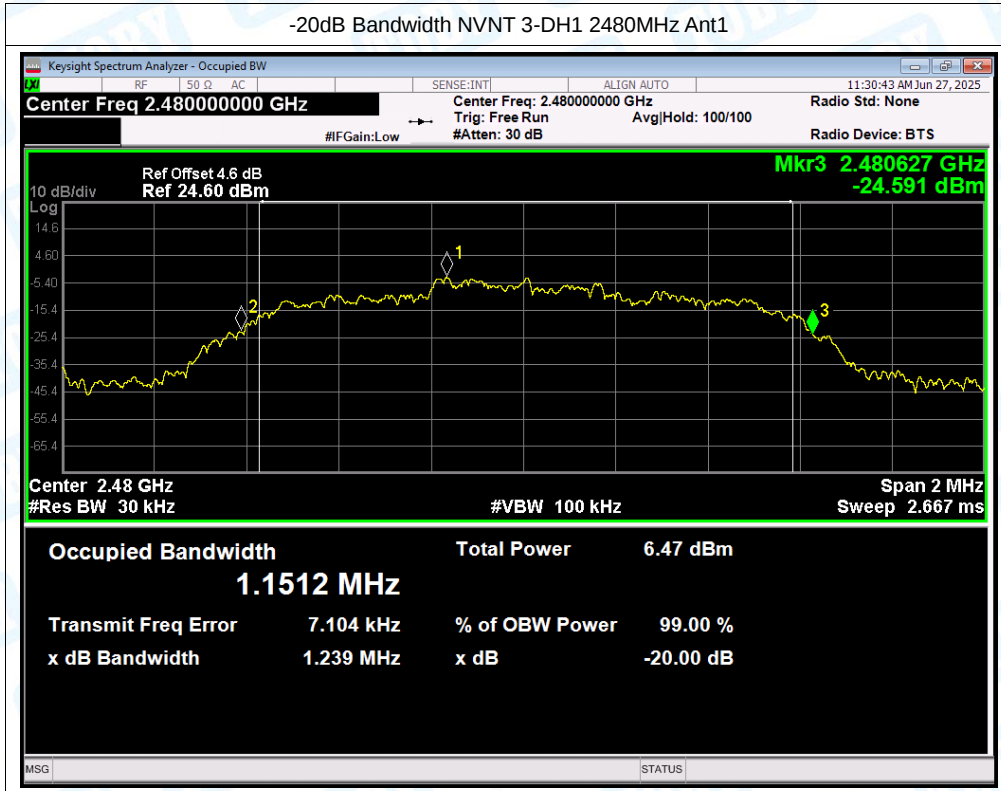


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



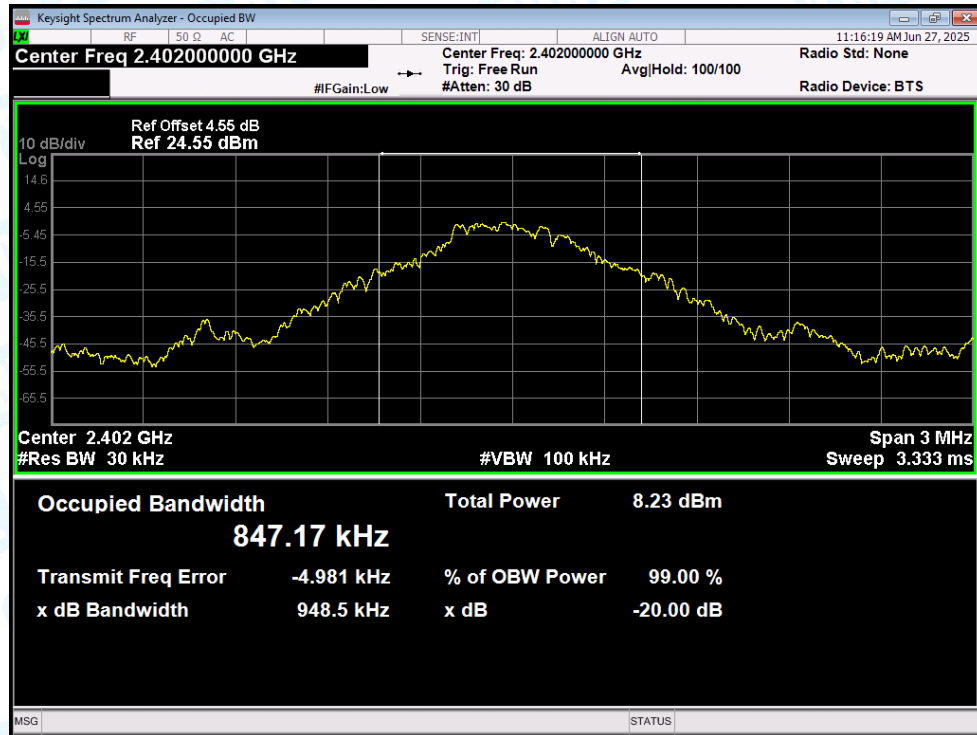


4. Occupied Channel Bandwidth

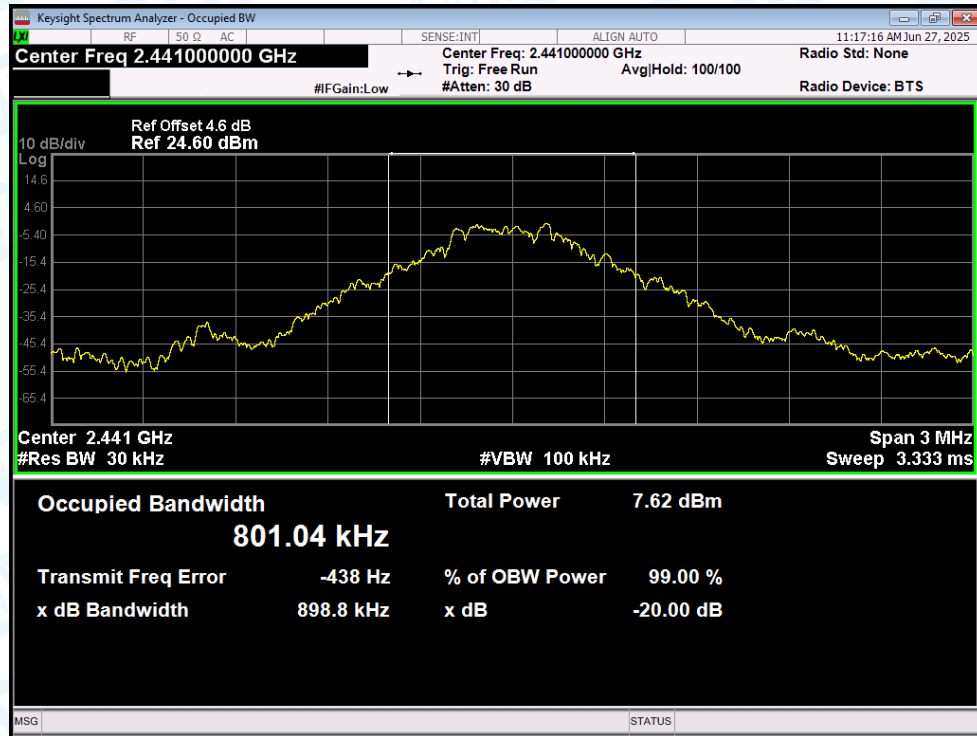
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.847
NVNT	1-DH1	2441	Ant1	0.801
NVNT	1-DH1	2480	Ant1	0.819
NVNT	2-DH1	2402	Ant1	1.164
NVNT	2-DH1	2441	Ant1	1.183
NVNT	2-DH1	2480	Ant1	1.166
NVNT	3-DH1	2402	Ant1	1.162
NVNT	3-DH1	2441	Ant1	1.163
NVNT	3-DH1	2480	Ant1	1.146

Test Graphs

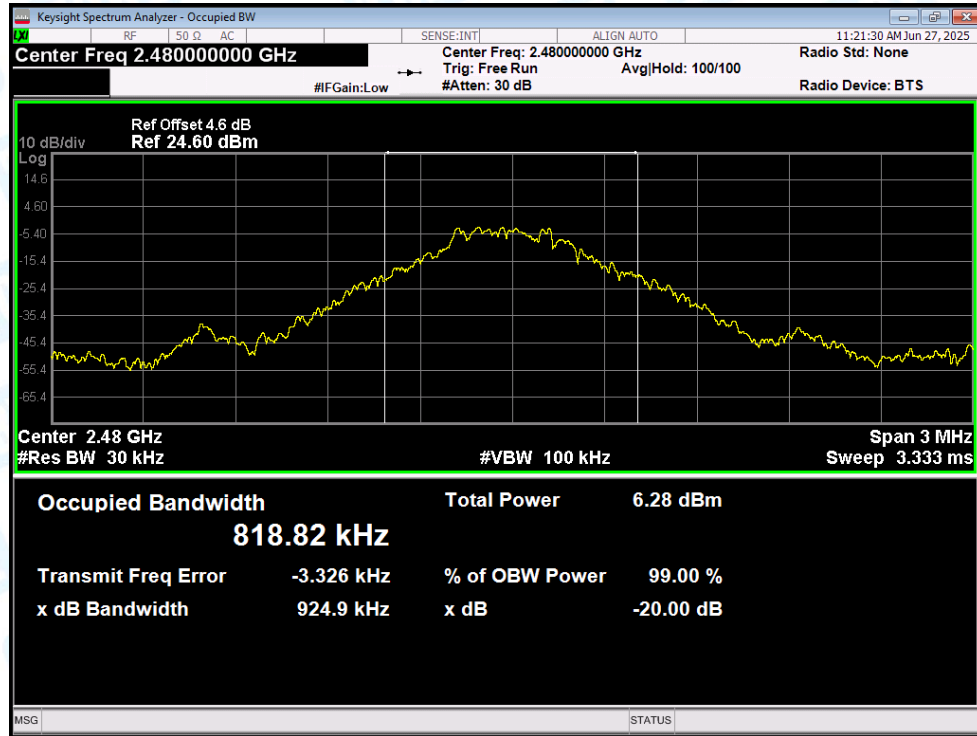
OBW NVNT 1-DH1 2402MHz Ant1



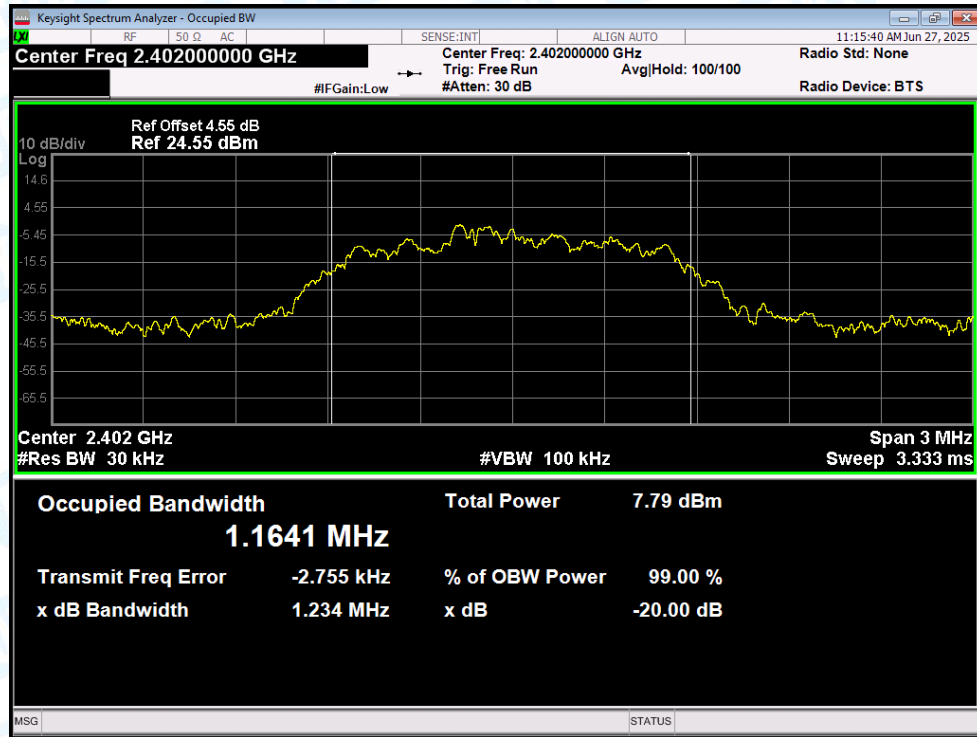
OBW NVNT 1-DH1 2441MHz Ant1



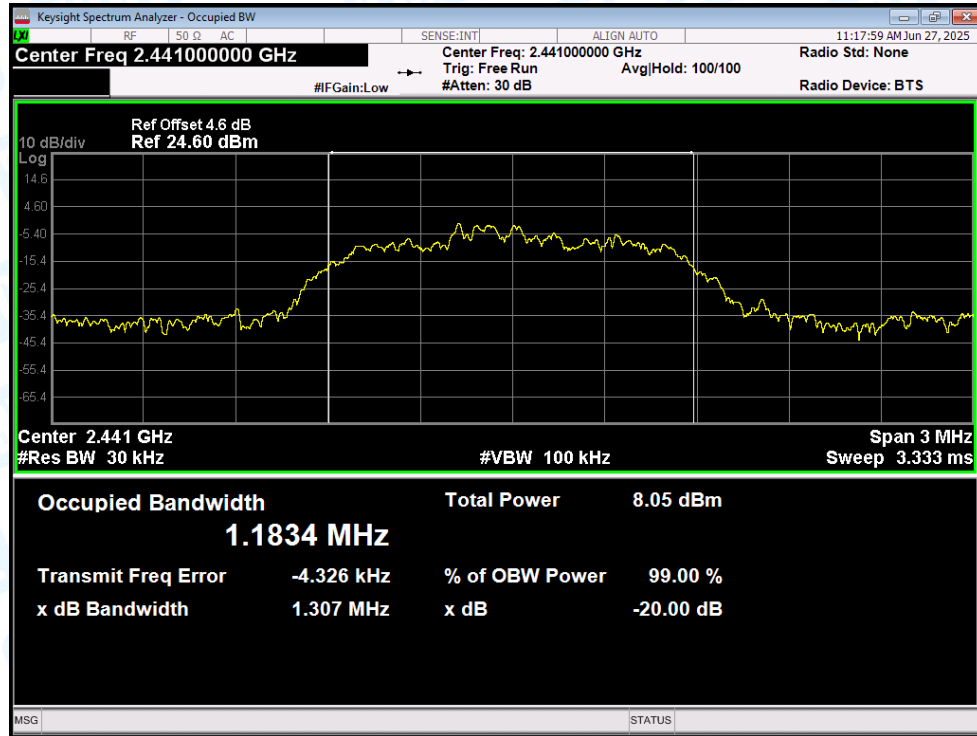
OBW NVNT 1-DH1 2480MHz Ant1



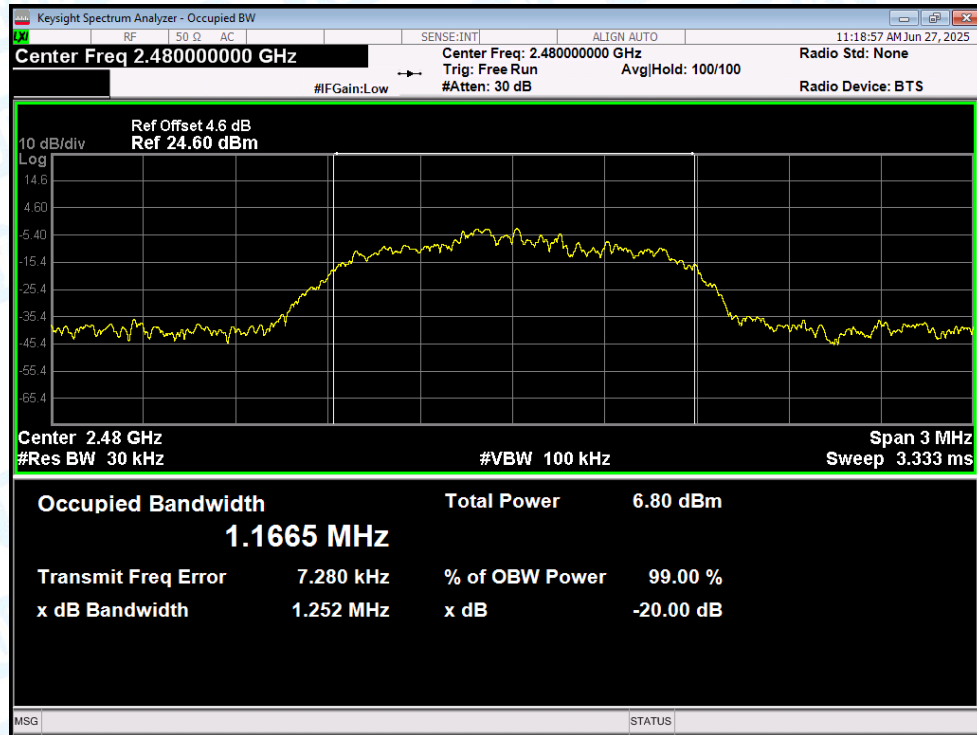
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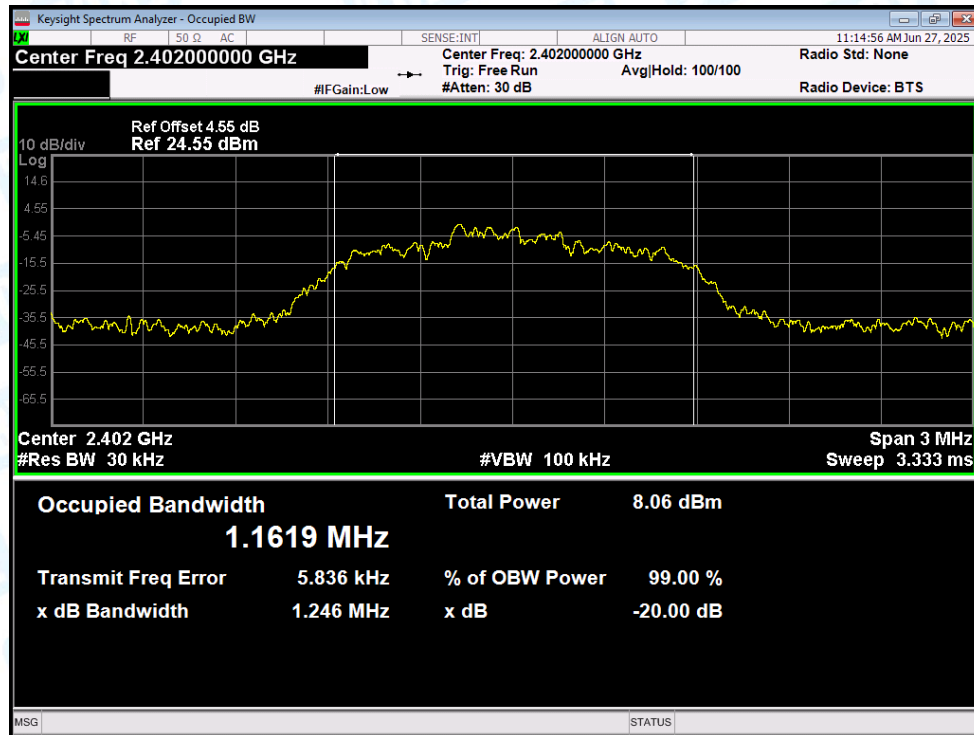
OBW NVNT 2-DH1 2441MHz Ant1



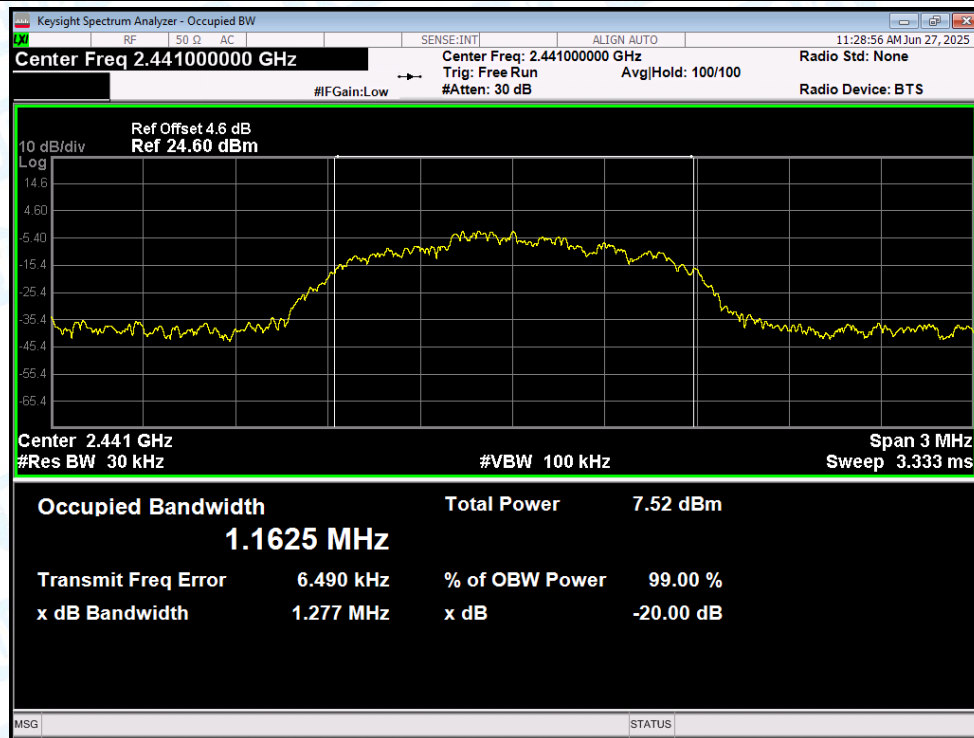
OBW NVNT 2-DH1 2480MHz Ant1

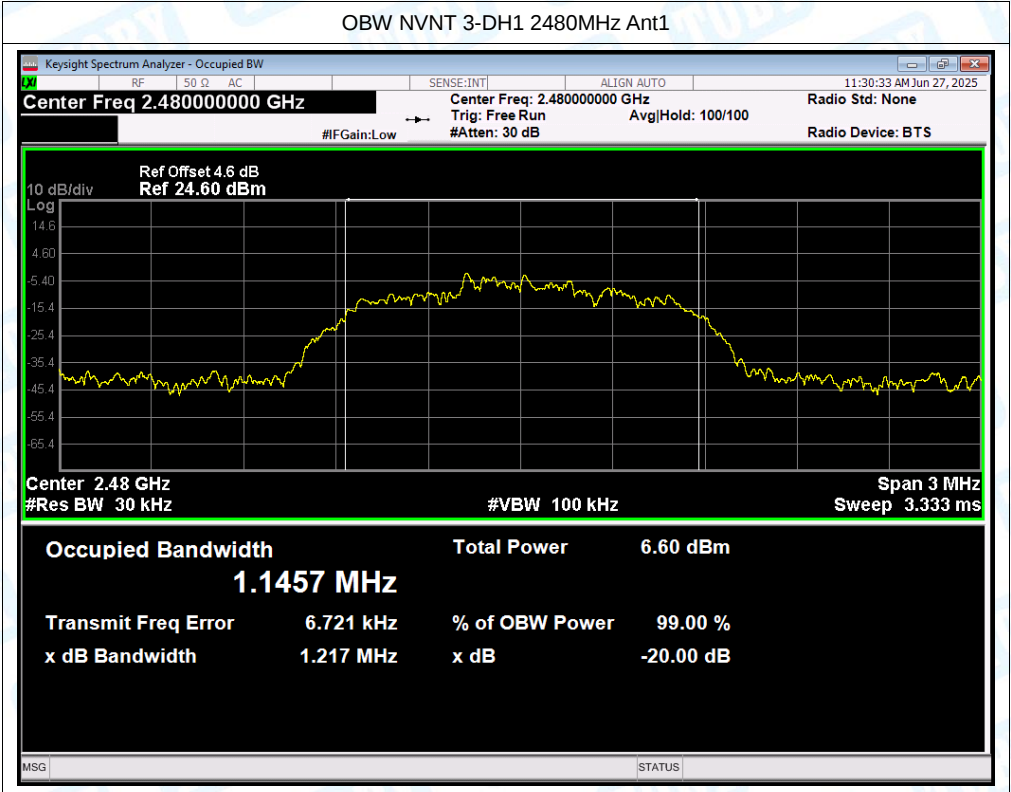


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



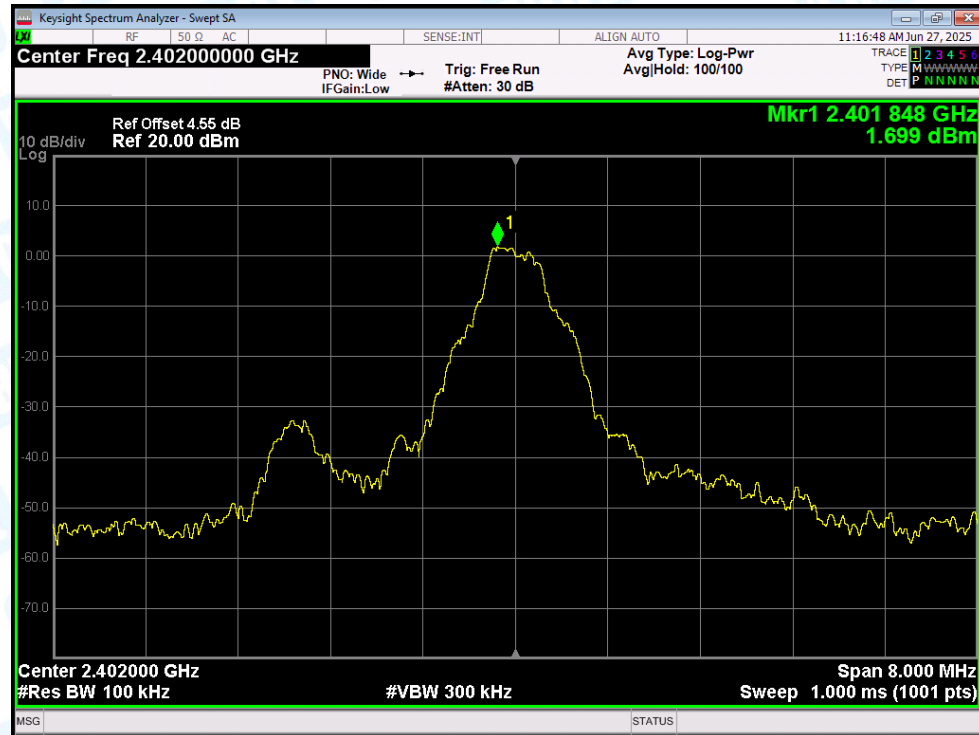


5. Band Edge

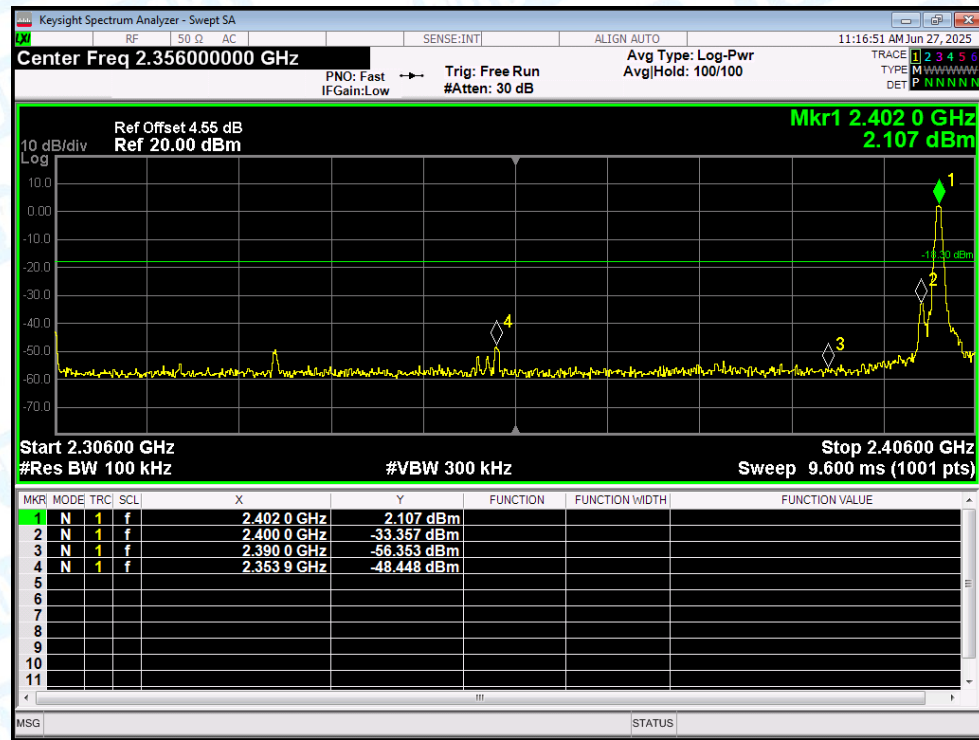
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-50.15	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-51.70	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-48.10	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-50.43	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-49.90	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-50.72	-20	Pass

Test Graphs

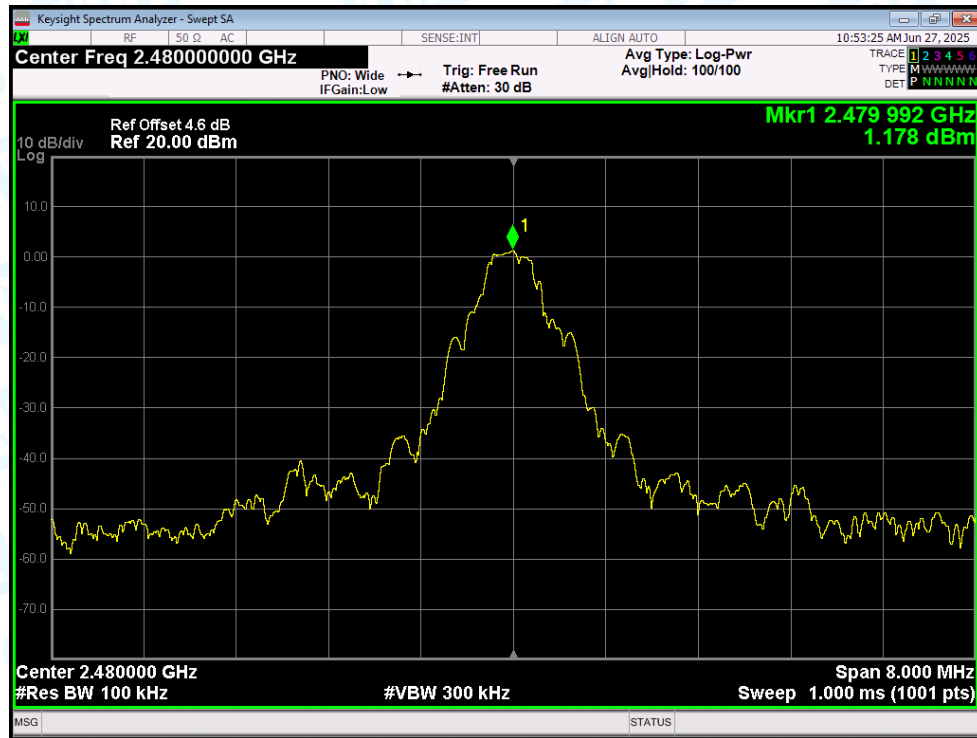
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



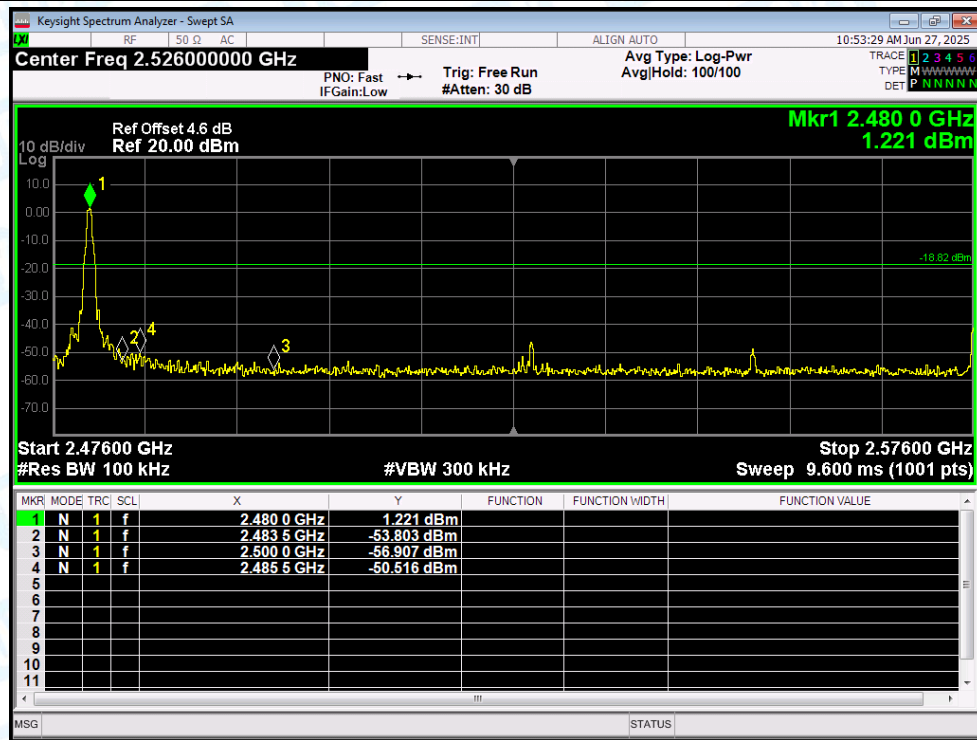
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



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



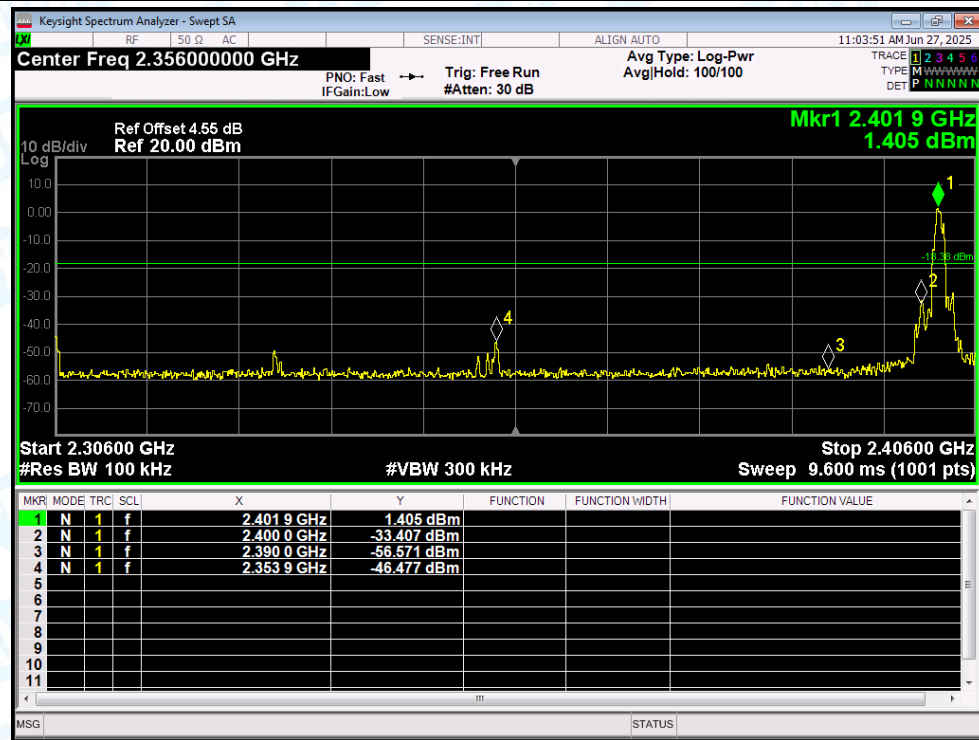
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Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



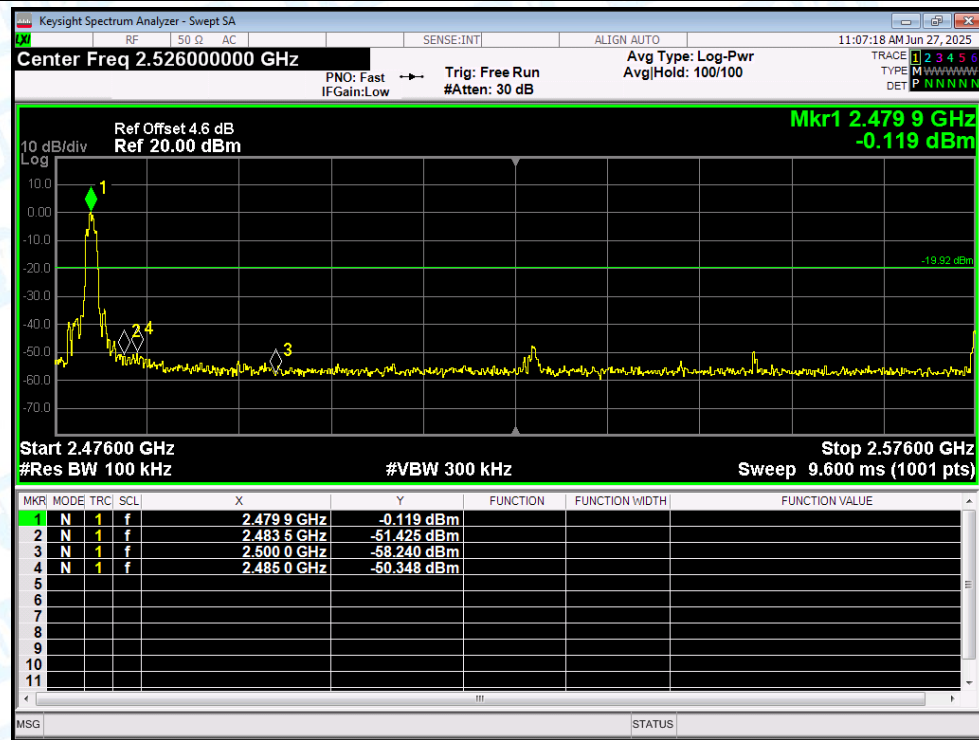
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



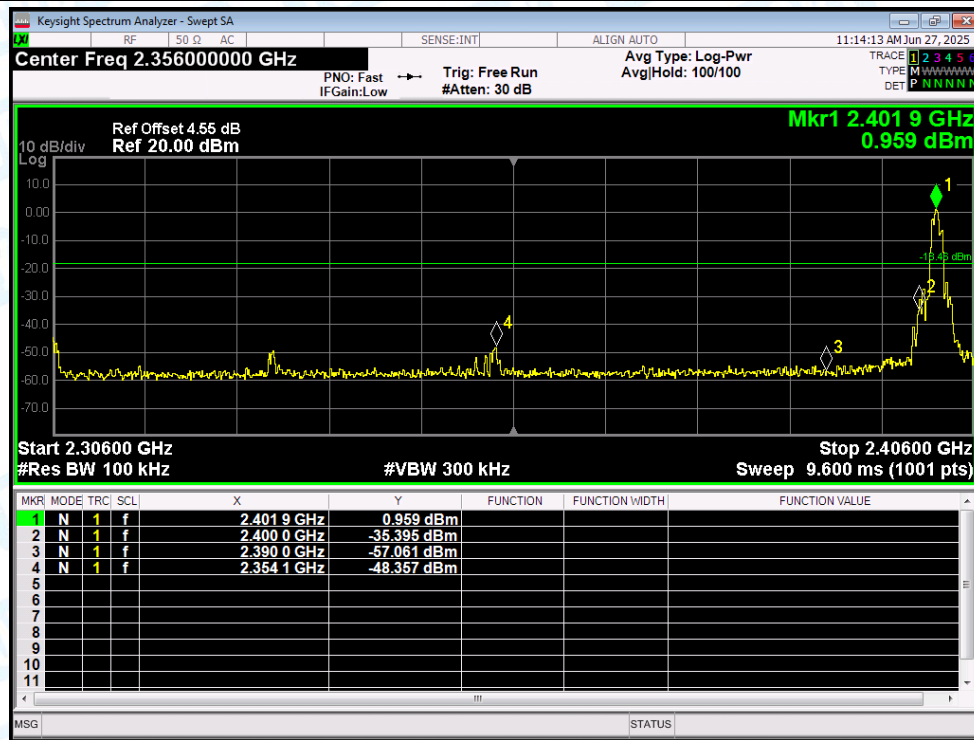
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



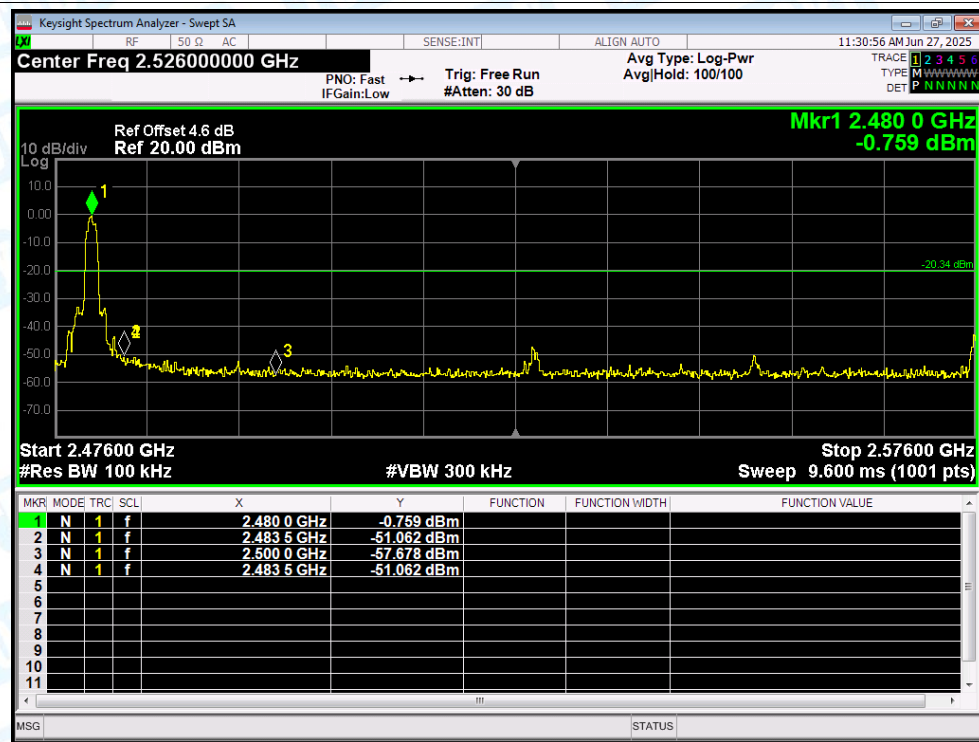
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

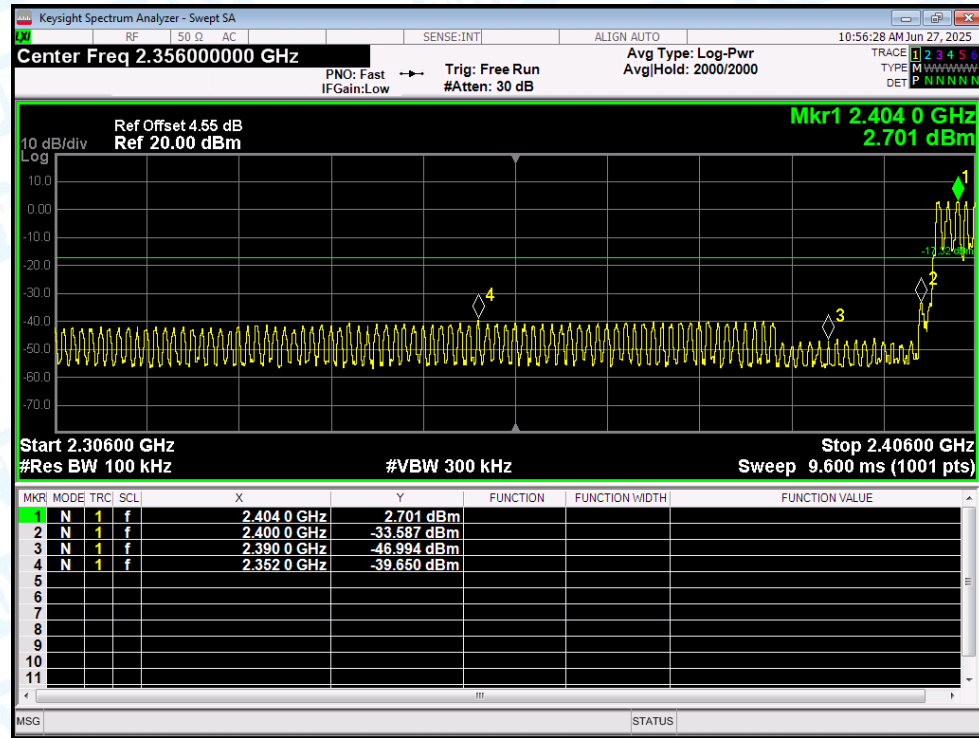
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-42.33	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-41.7	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-41.7	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-41.11	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-42.11	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-40.77	-20	Pass

Test Graphs

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



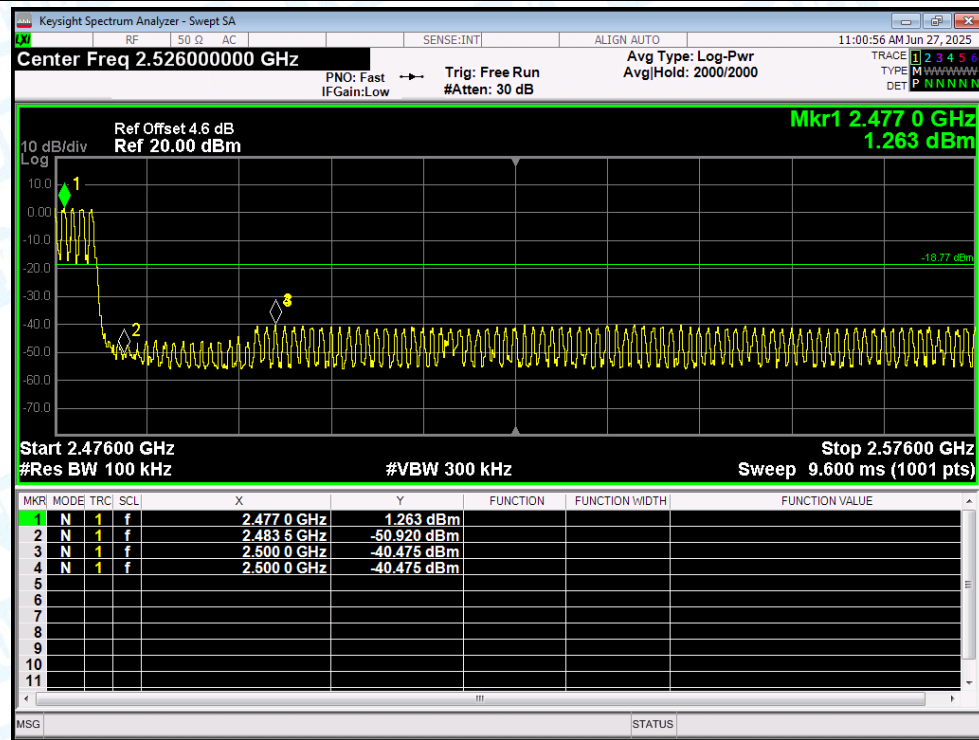
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



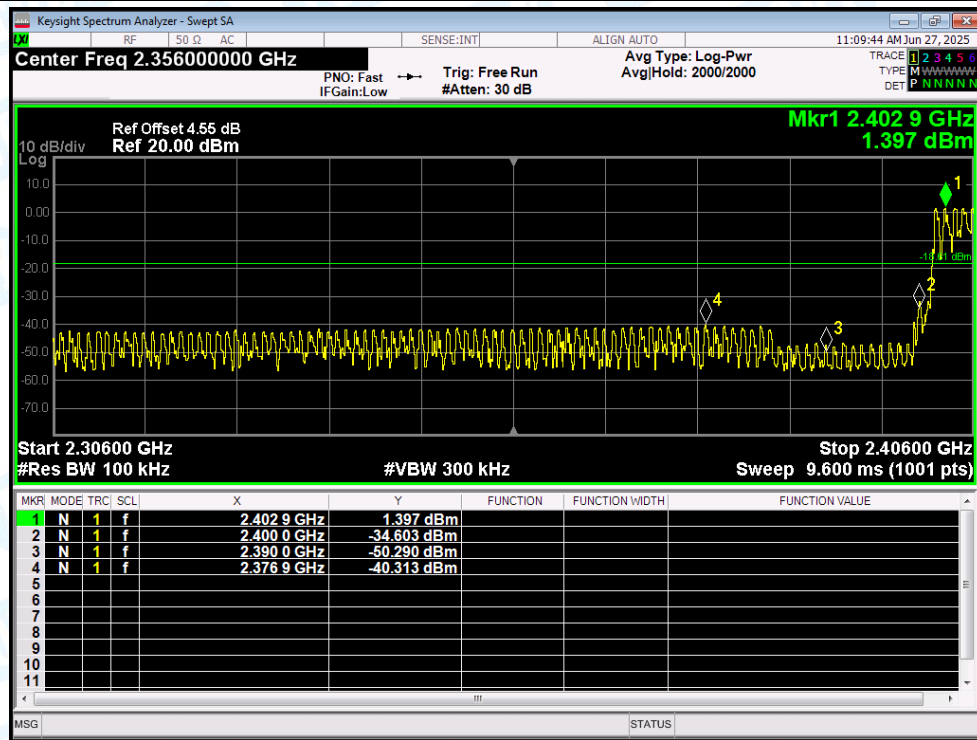
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission

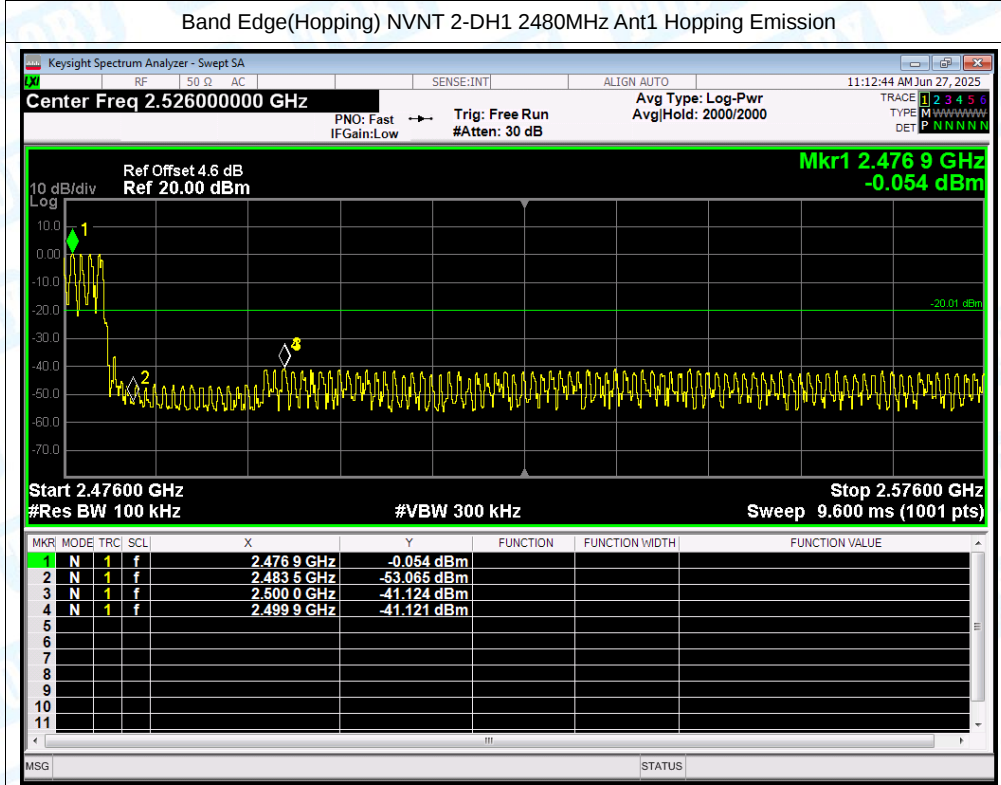


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref

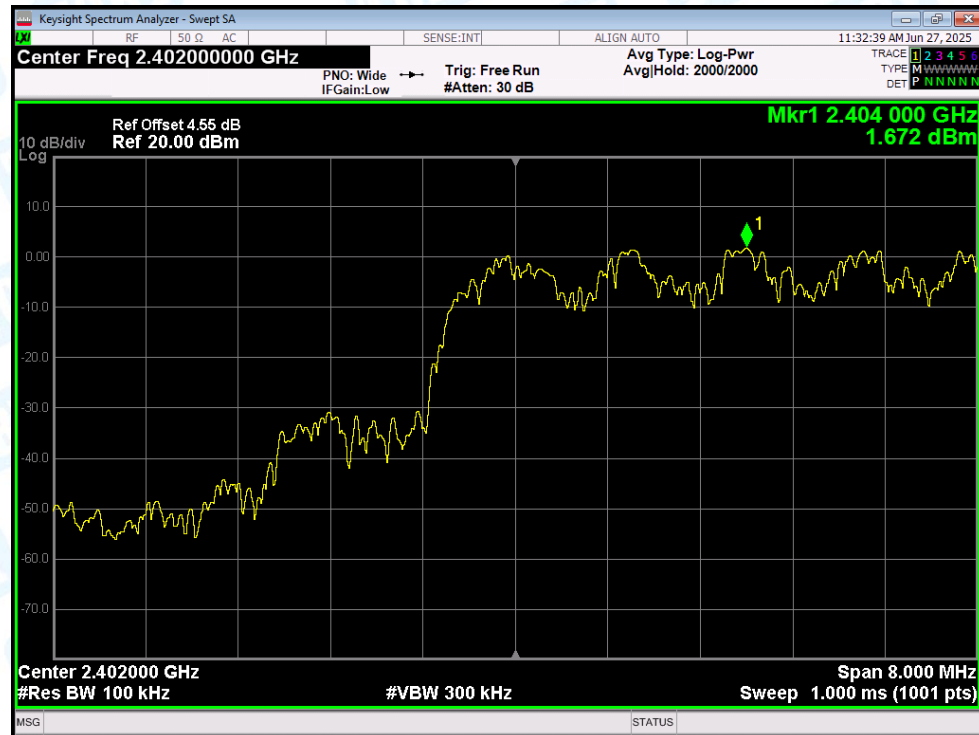


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission

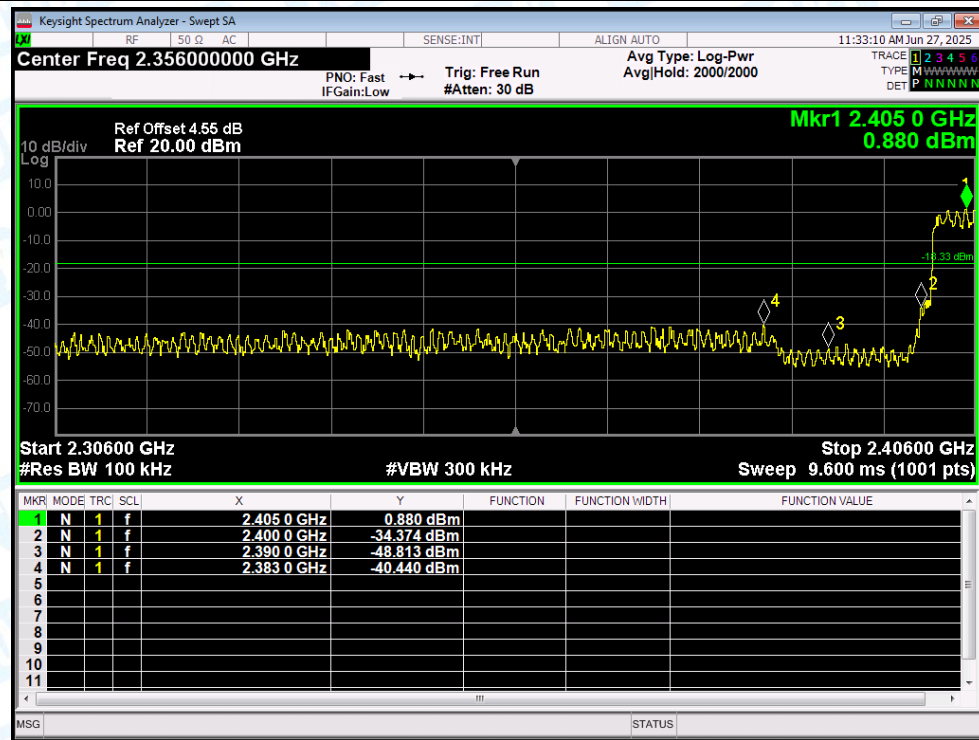


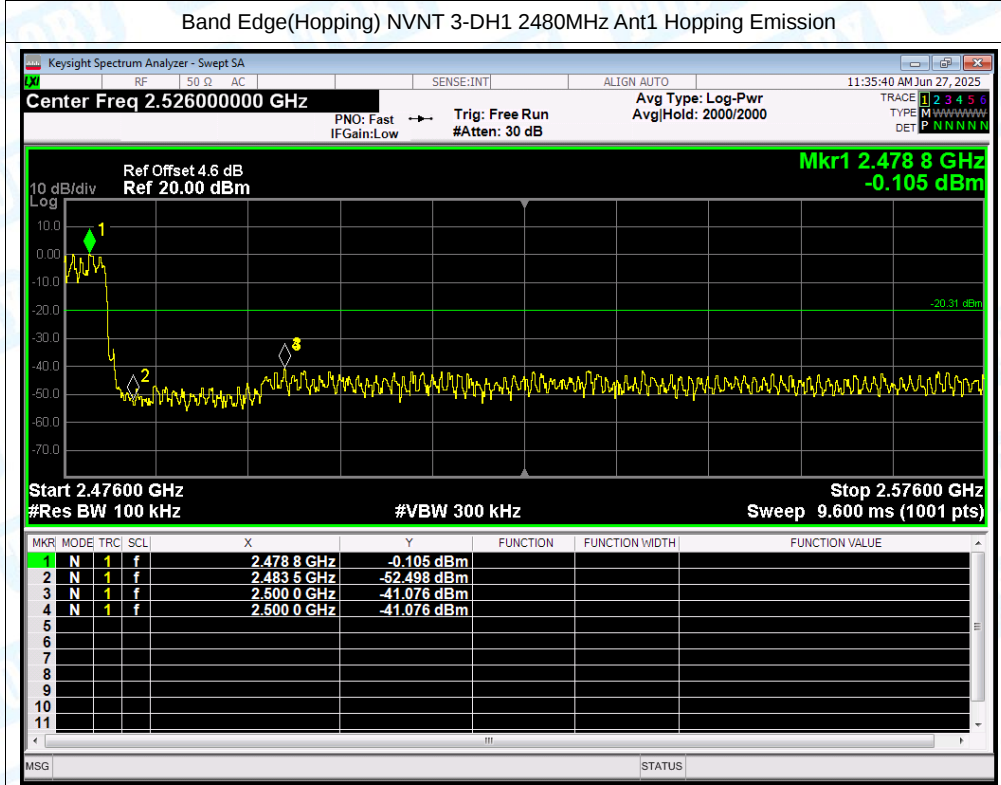


Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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



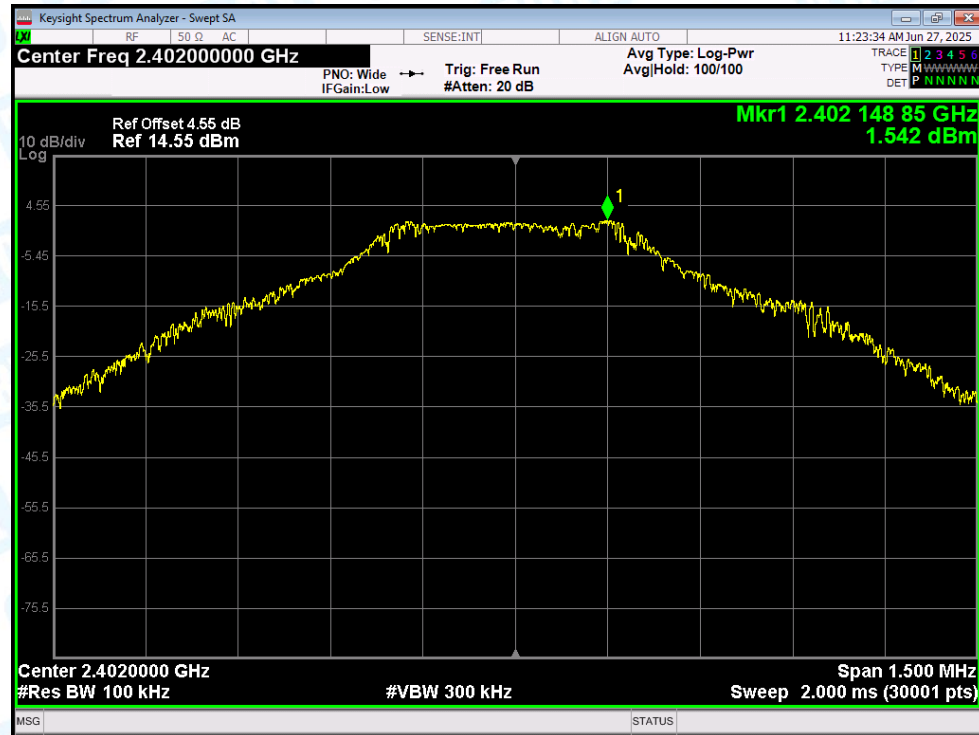


7. Conducted RF Spurious Emission

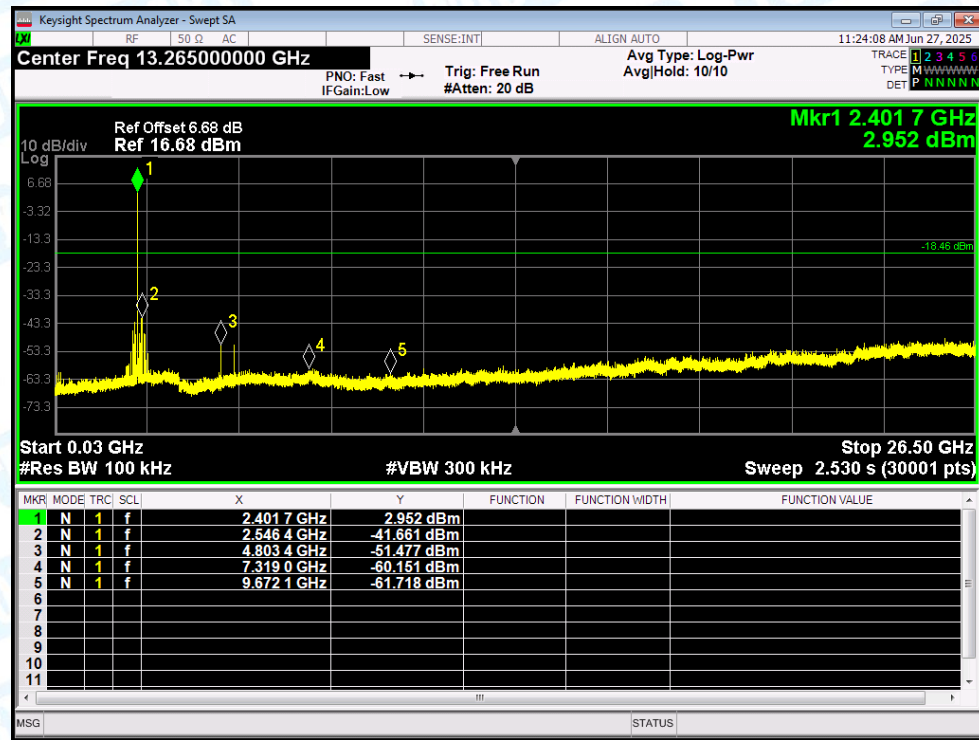
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-43.2	-20	Pass
NVNT	1-DH1	2441	Ant1	-40.83	-20	Pass
NVNT	1-DH1	2480	Ant1	-41.73	-20	Pass
NVNT	2-DH1	2402	Ant1	-43.21	-20	Pass
NVNT	2-DH1	2441	Ant1	-43.41	-20	Pass
NVNT	2-DH1	2480	Ant1	-41.44	-20	Pass
NVNT	3-DH1	2402	Ant1	-44.95	-20	Pass
NVNT	3-DH1	2441	Ant1	-44.64	-20	Pass
NVNT	3-DH1	2480	Ant1	-42.18	-20	Pass

Test Graphs

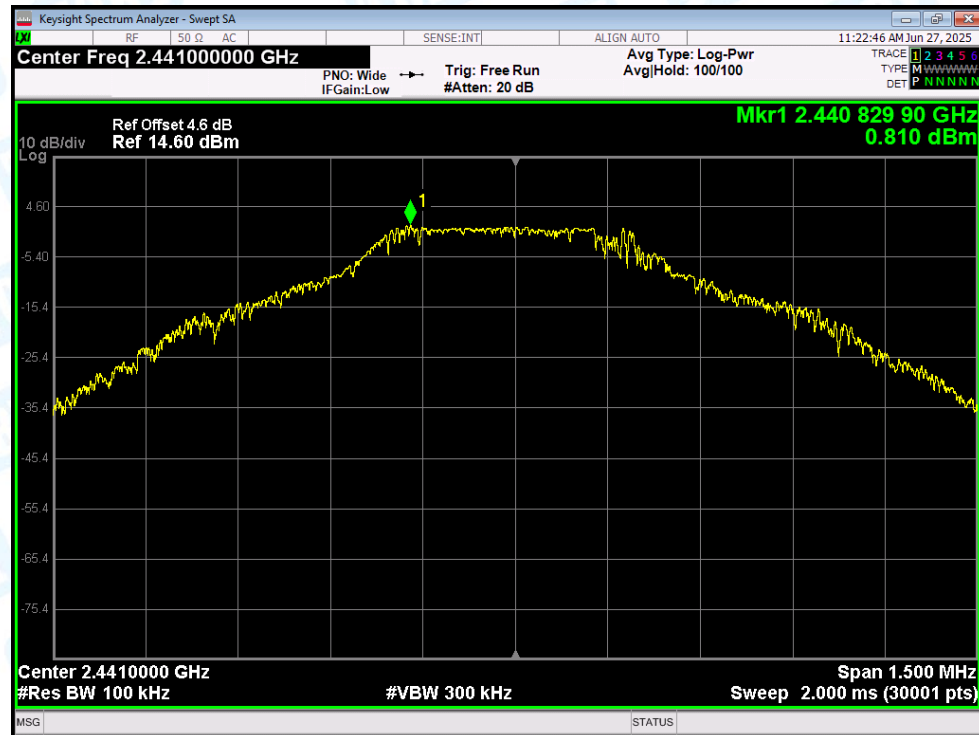
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



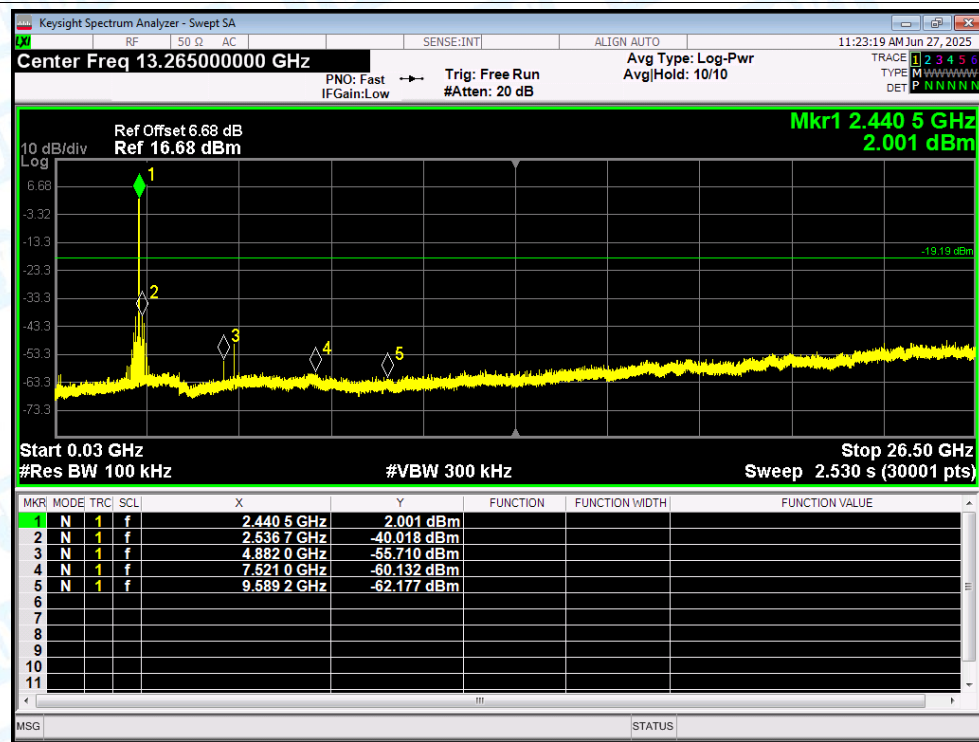
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



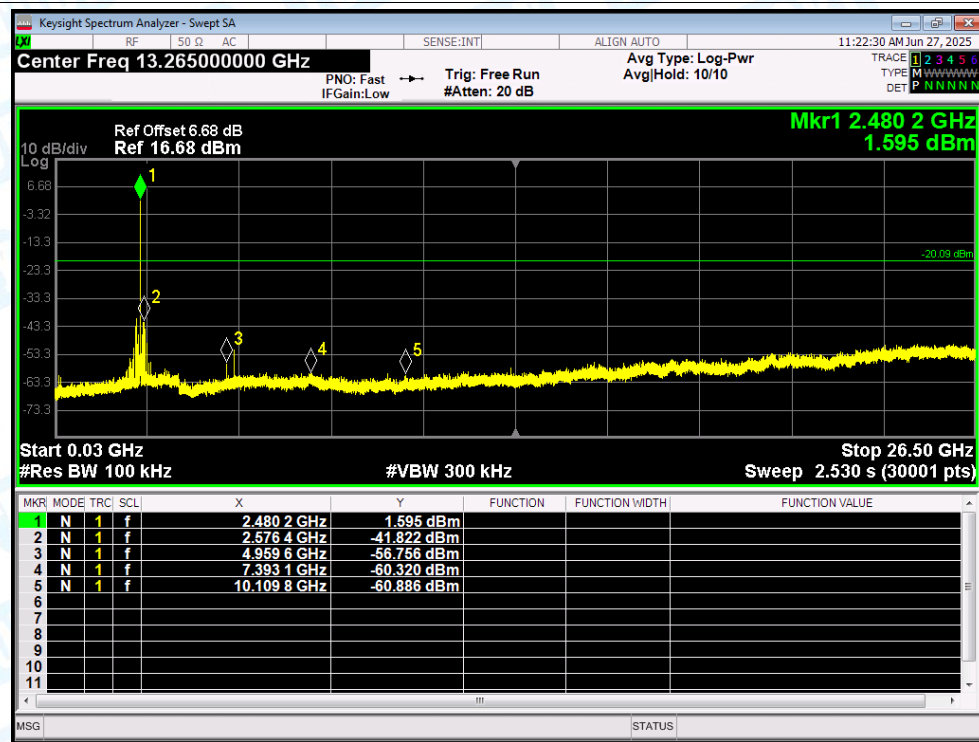
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



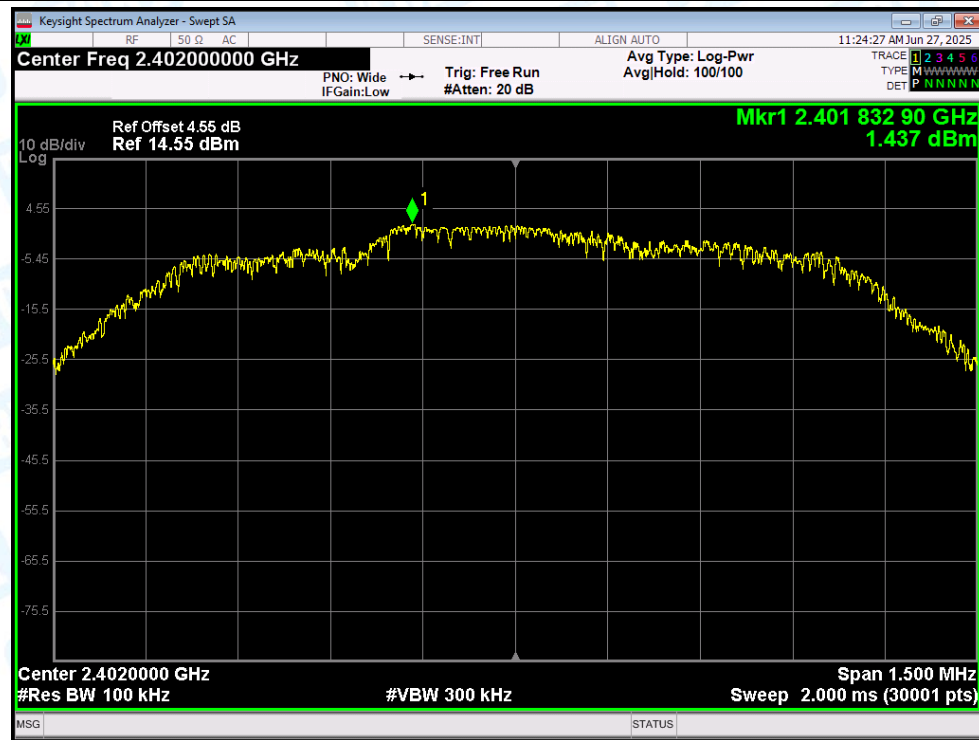
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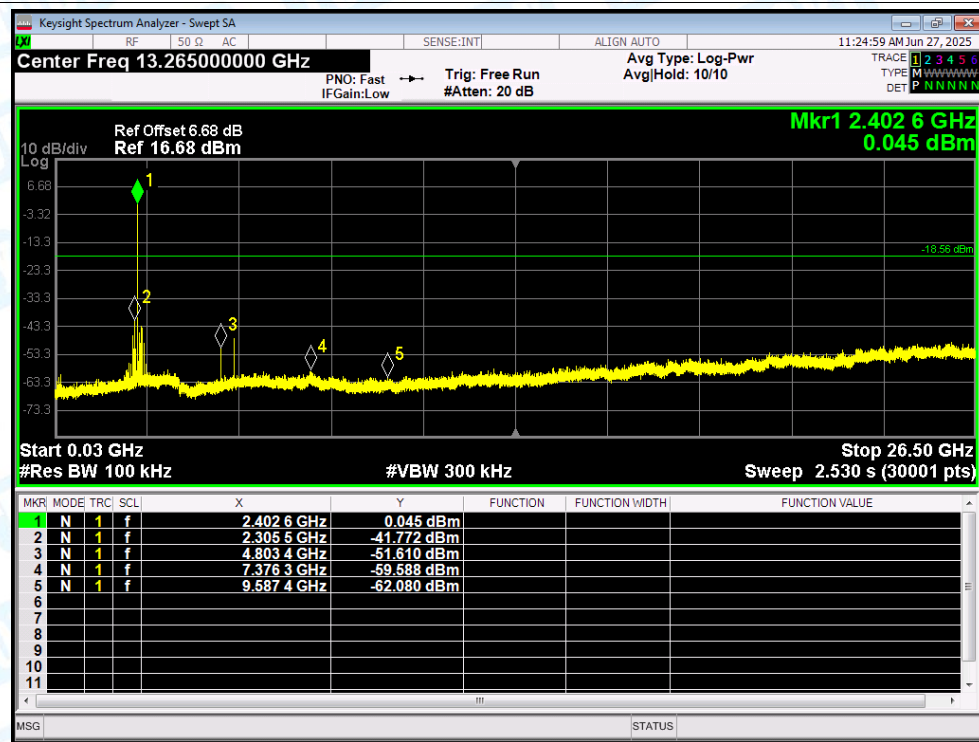
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



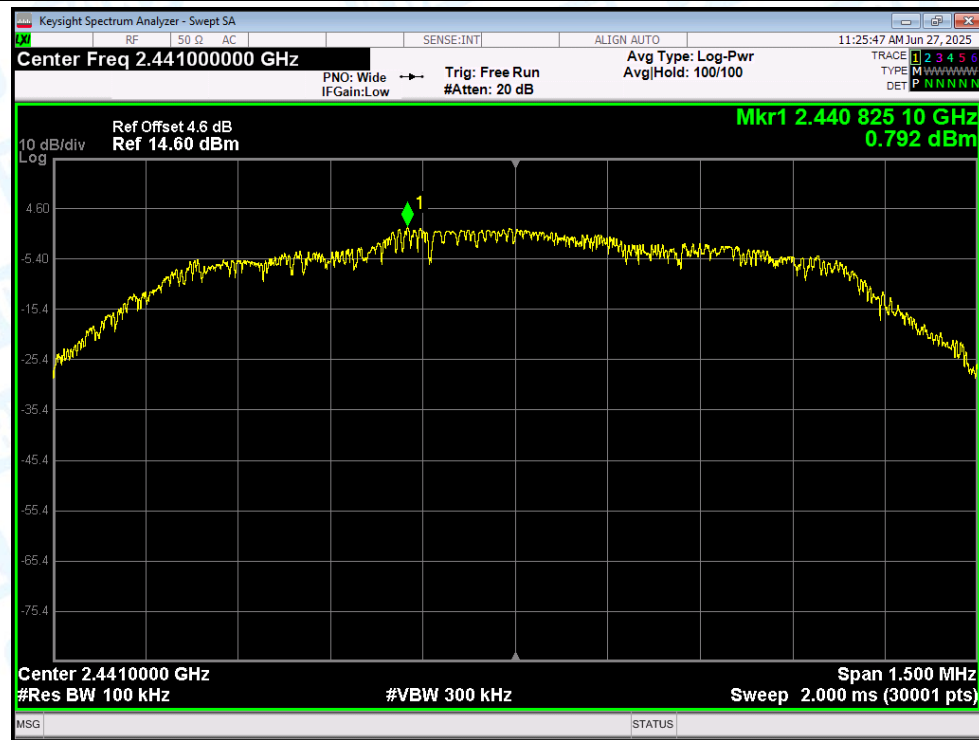
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



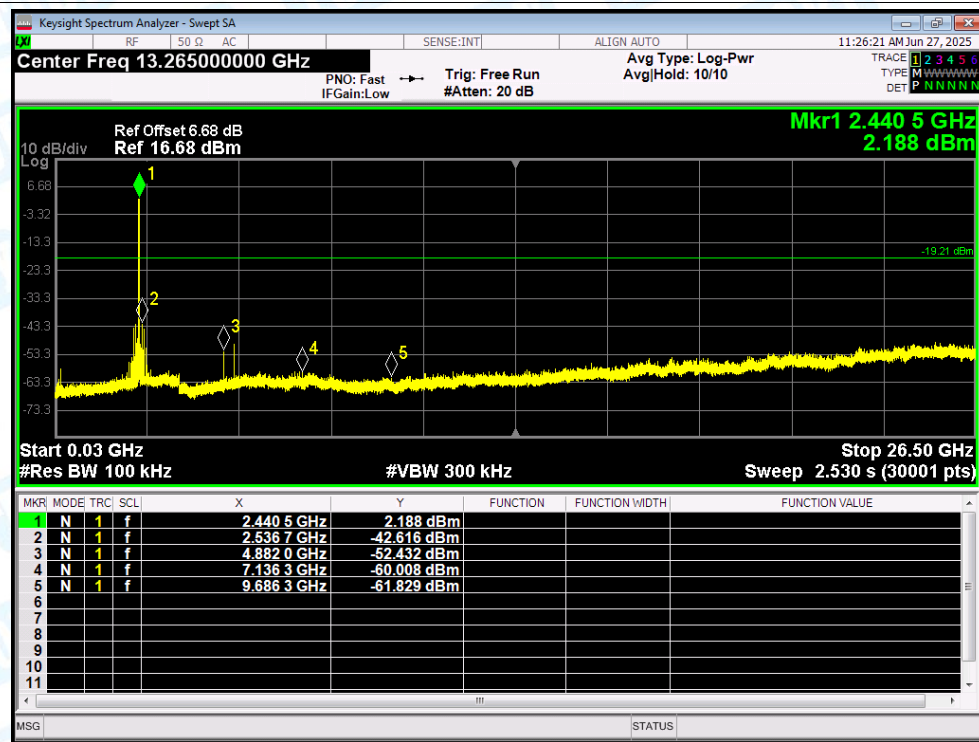
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



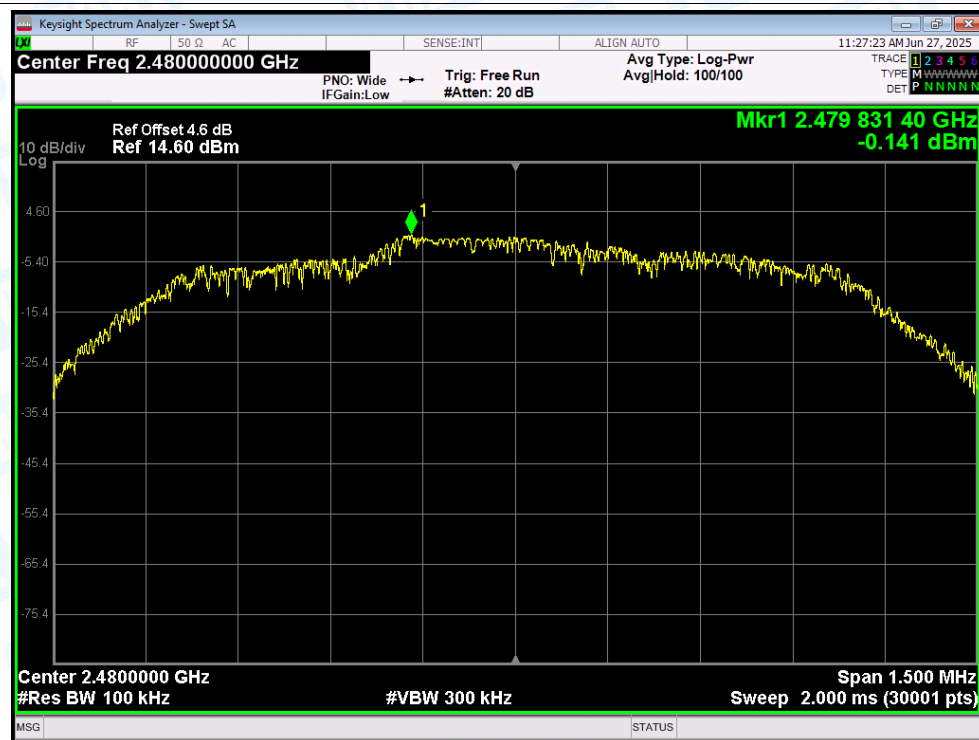
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



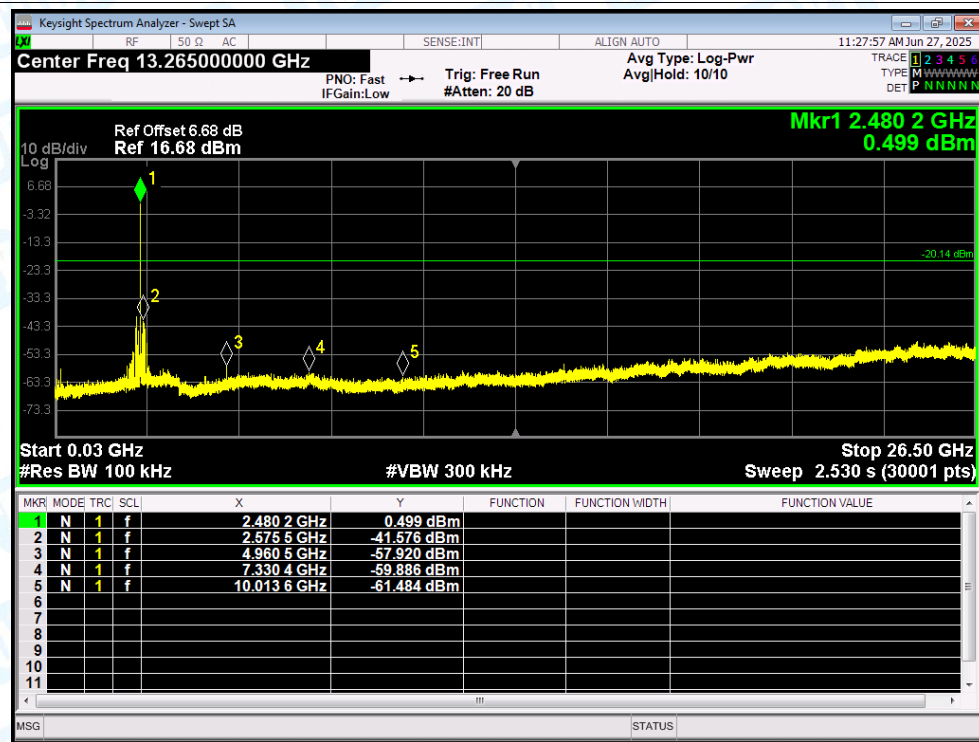
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



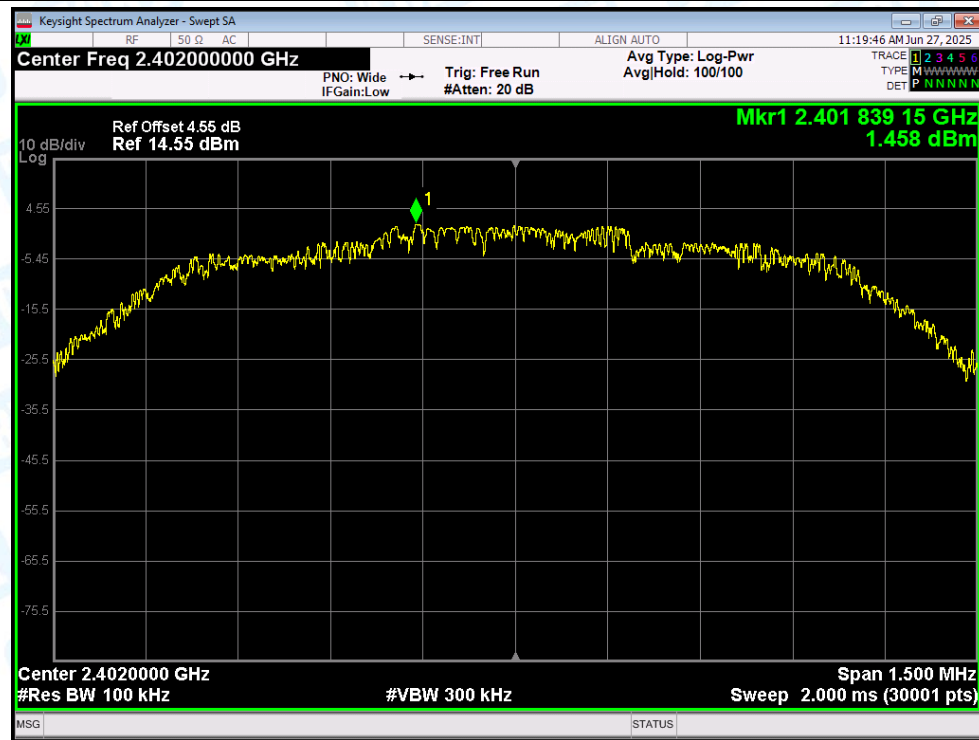
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



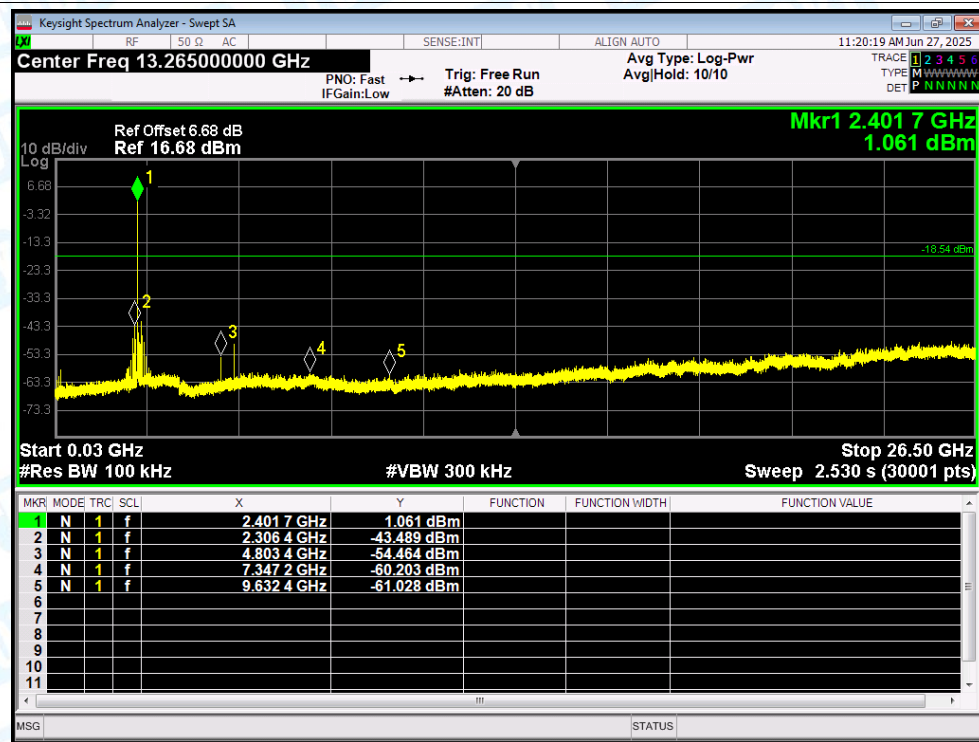
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



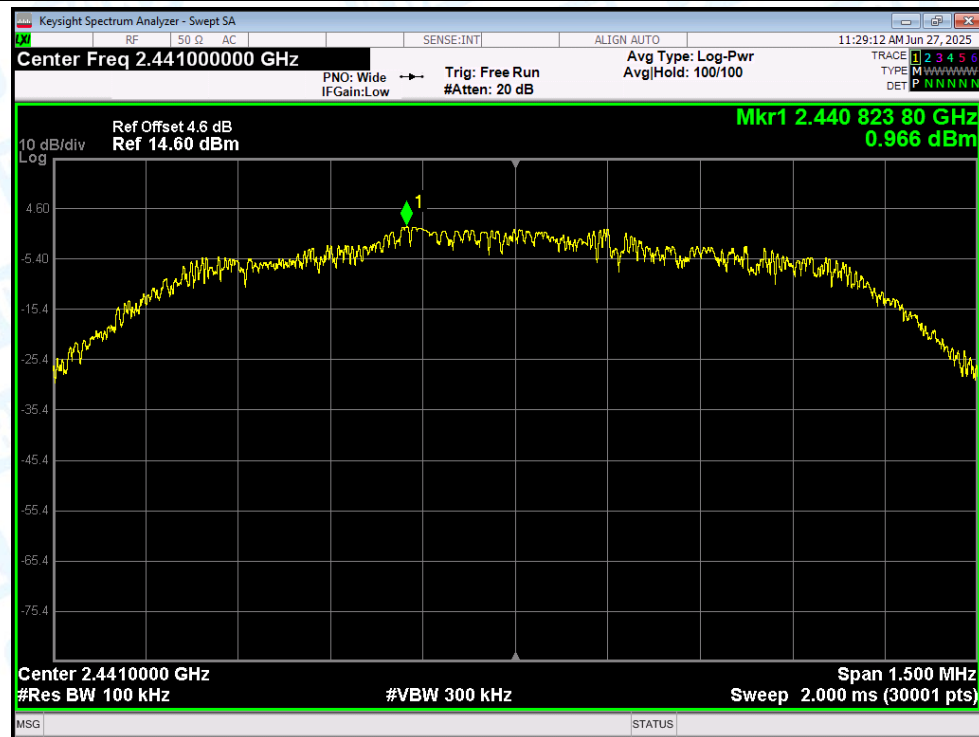
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



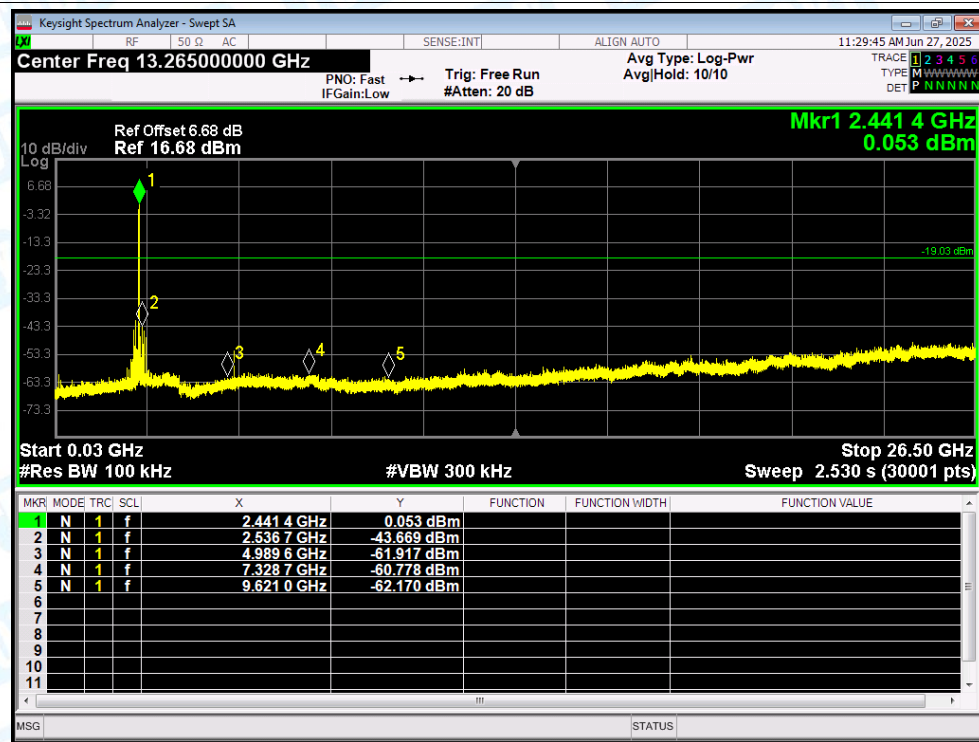
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



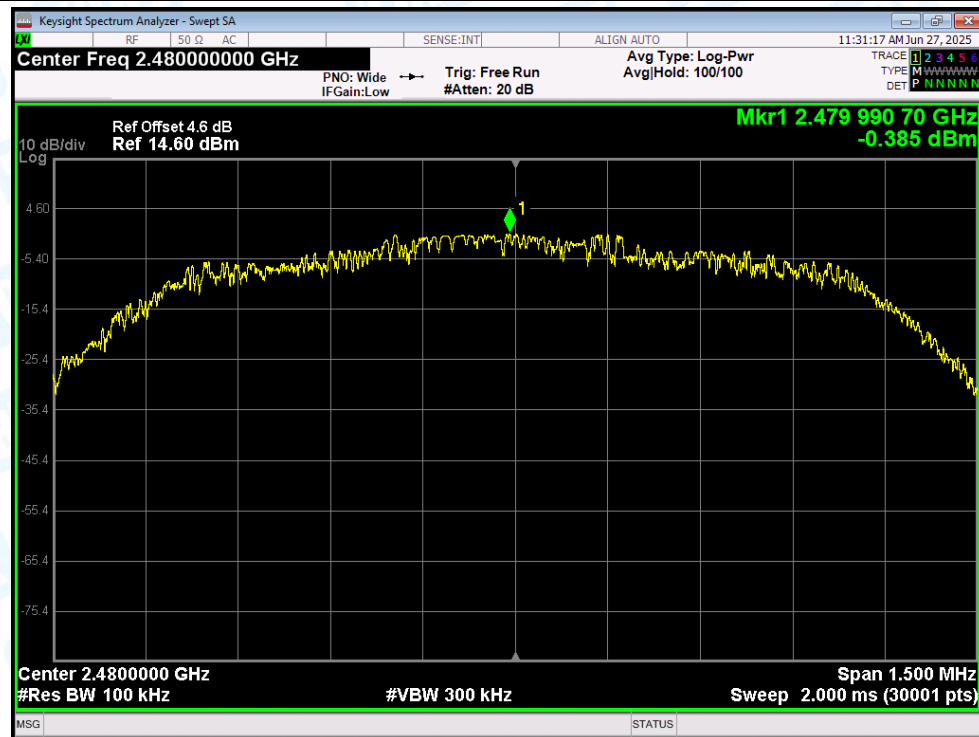
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



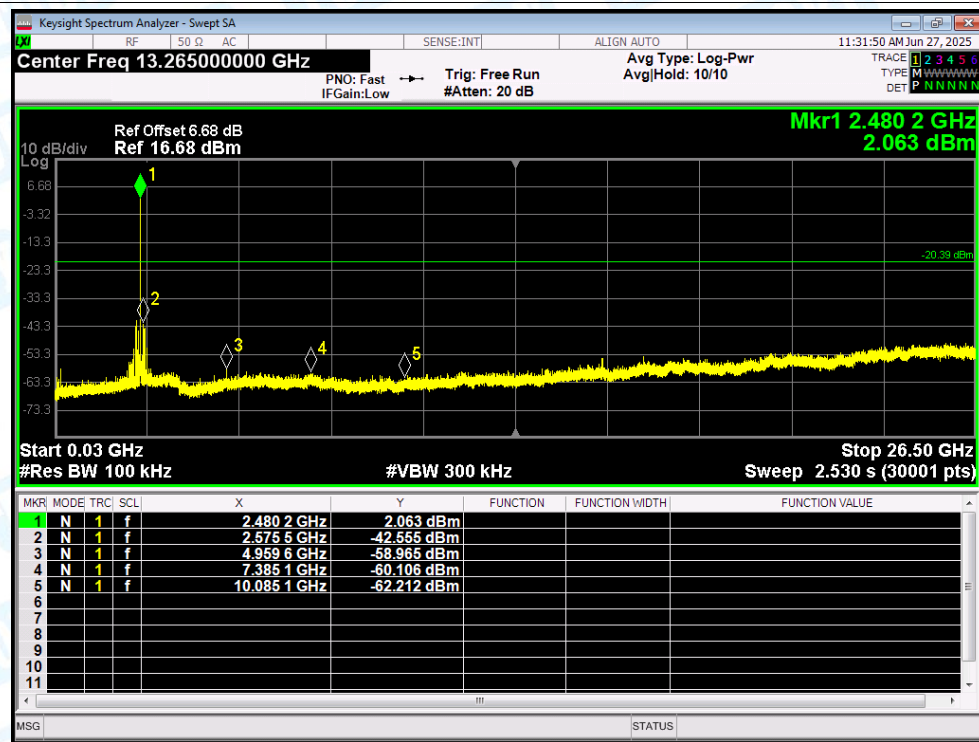
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

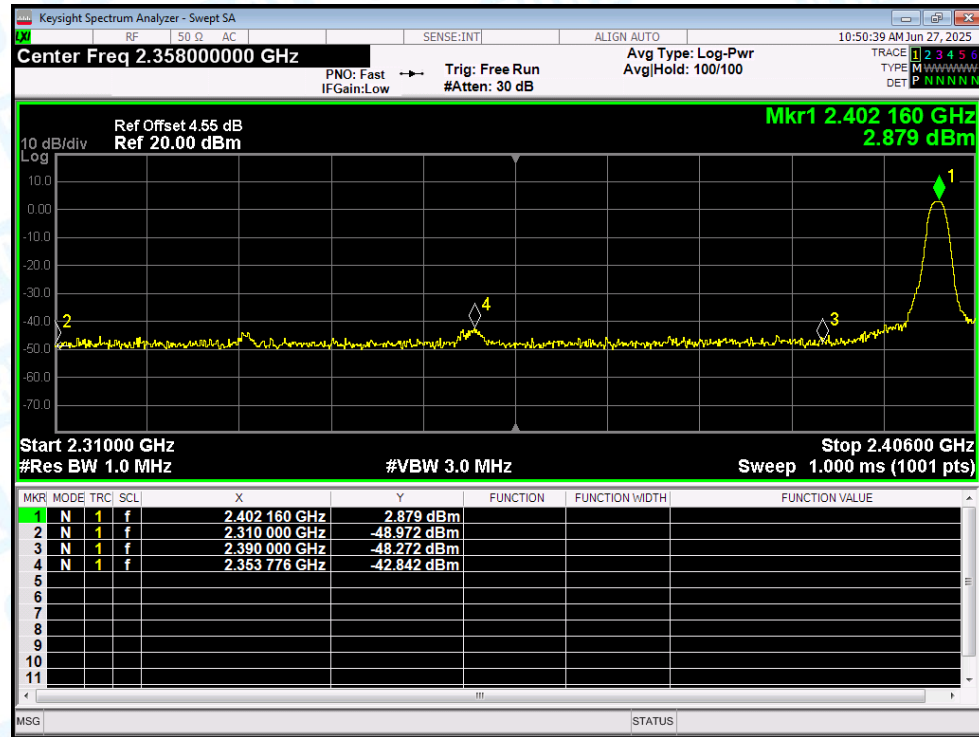


8. Restrict Band

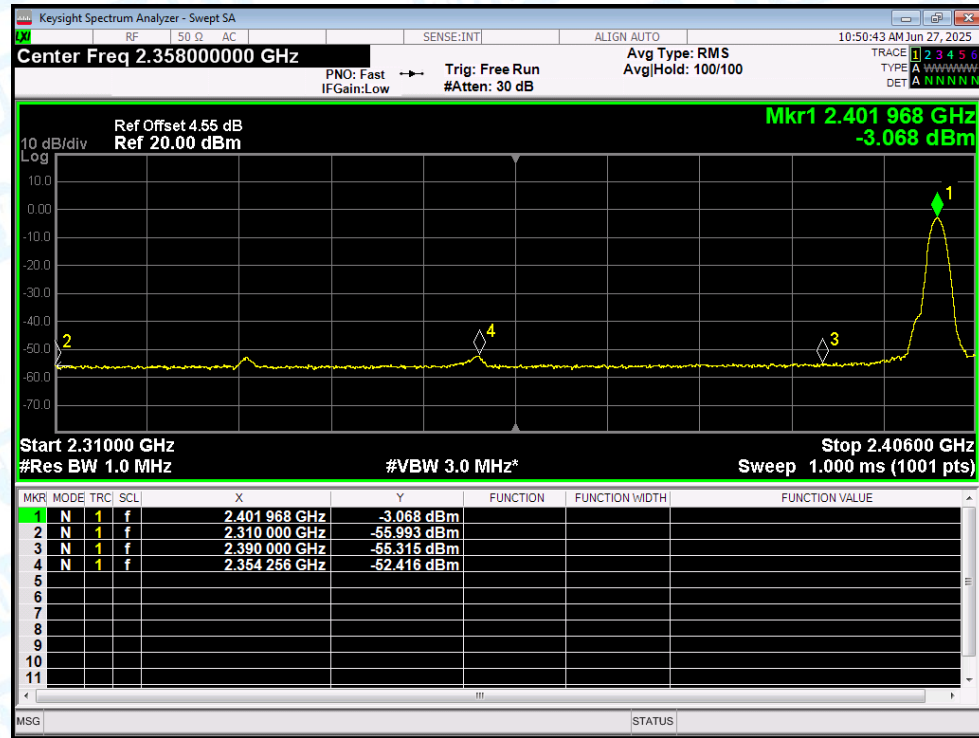
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.97	2	-	48.29	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.99	2	5.17	46.44	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2353.776	-42.84	2	-	54.42	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2354.256	-52.42	2	5.17	50.01	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-48.27	2	-	48.99	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.32	2	5.17	47.11	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-40.77	2	-	56.49	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-52.85	2	5.29	49.7	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.568	-39.43	2	-	57.83	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.688	-51.46	2	5.29	51.09	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.14	2	-	50.12	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.74	2	5.29	46.81	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-45.99	2	-	51.27	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.5	2	5.17	45.93	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2353.68	-42.93	2	-	54.33	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2353.872	-51.17	2	5.17	51.26	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.19	2	-	50.07	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.86	2	5.17	46.57	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-43.41	2	-	53.85	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-53.69	2	5.17	48.74	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.28	-40.26	2	-	57	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.832	-52.26	2	5.17	50.17	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.76	2	-	50.5	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.44	2	5.17	46.99	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.31	2	-	48.95	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.55	2	5.17	45.88	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2353.68	-42.4	2	-	54.86	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2353.488	-52.21	2	5.17	50.22	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.63	2	-	49.63	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-55.28	2	5.17	47.15	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-42.62	2	-	54.64	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-52.53	2	5.06	49.79	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.736	-40.13	2	-	57.13	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.712	-51.9	2	5.06	50.42	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-48.56	2	-	48.7	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.63	2	5.06	46.69	Average	54	Pass

Test Graphs

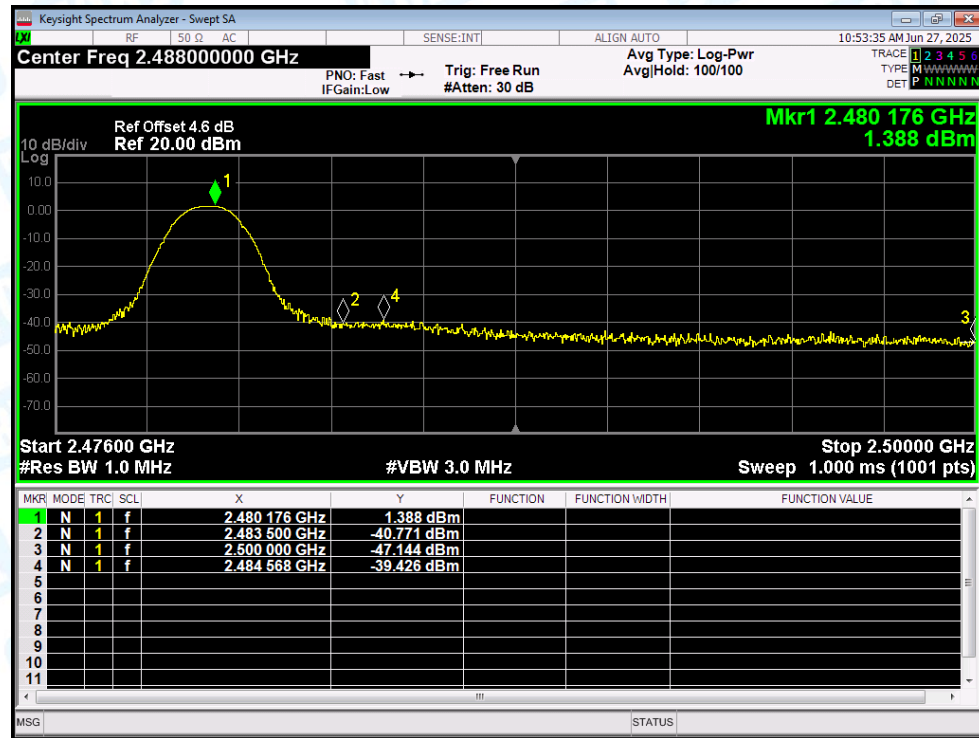
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



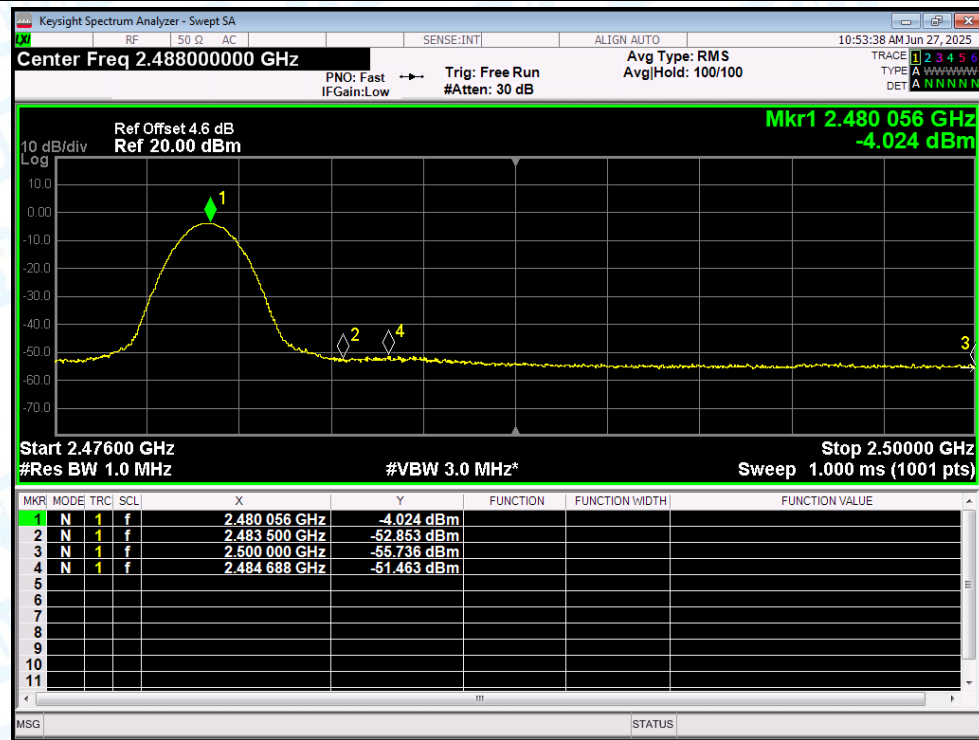
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



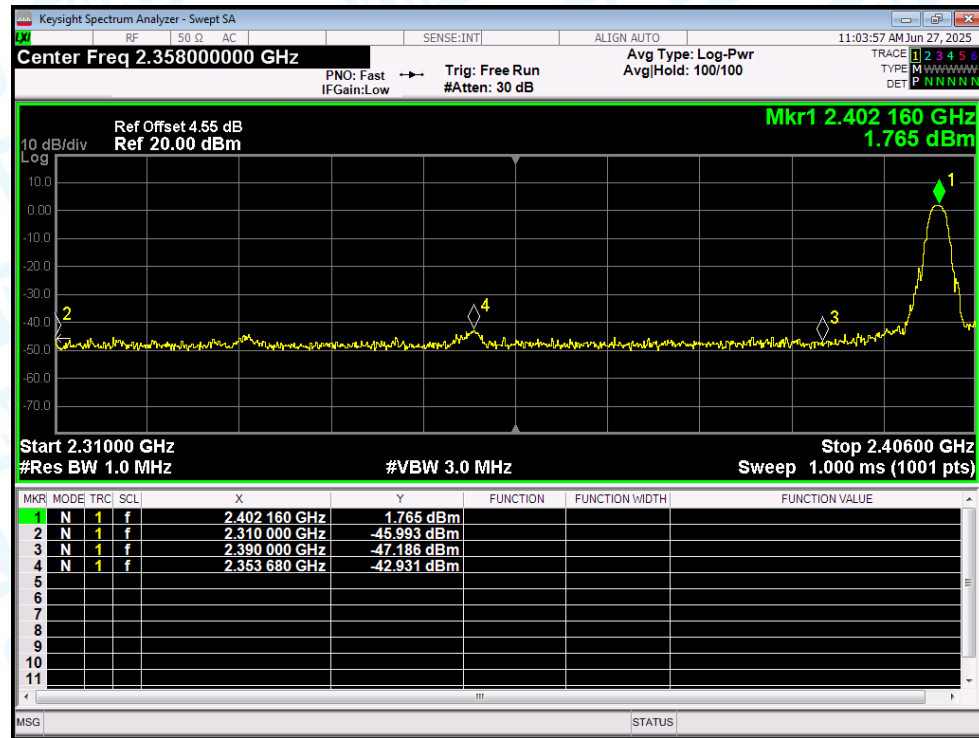
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



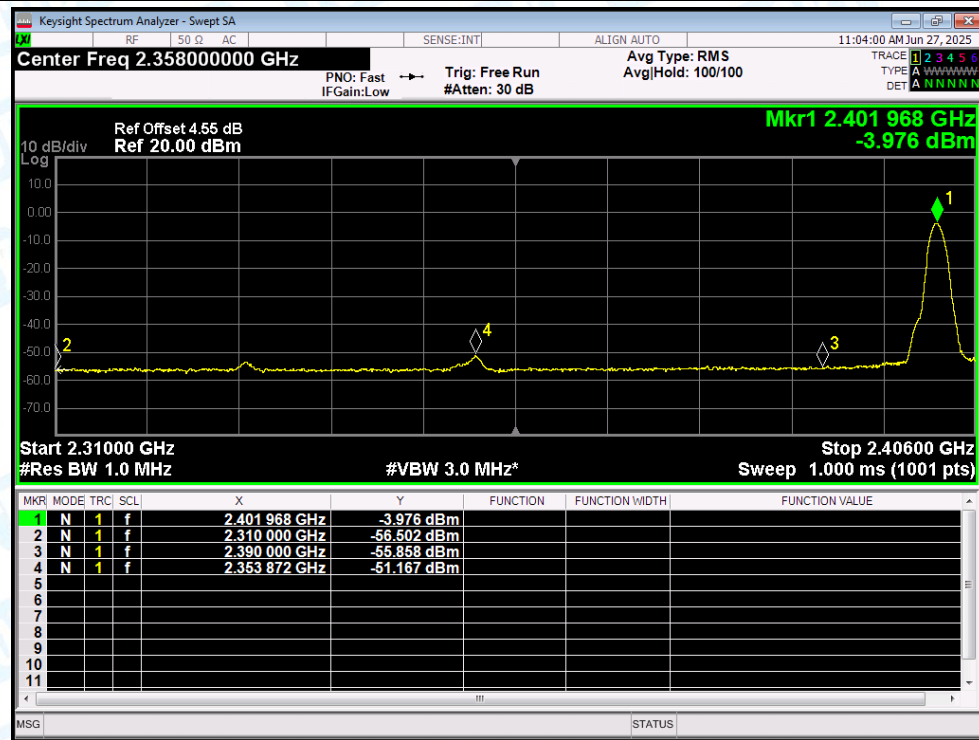
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



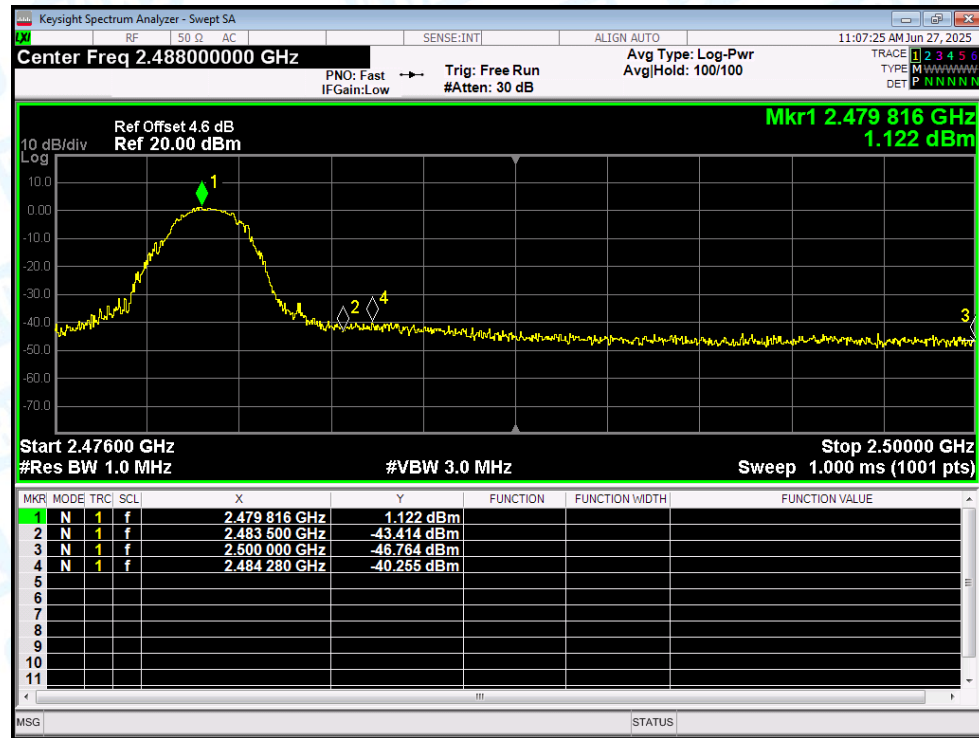
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



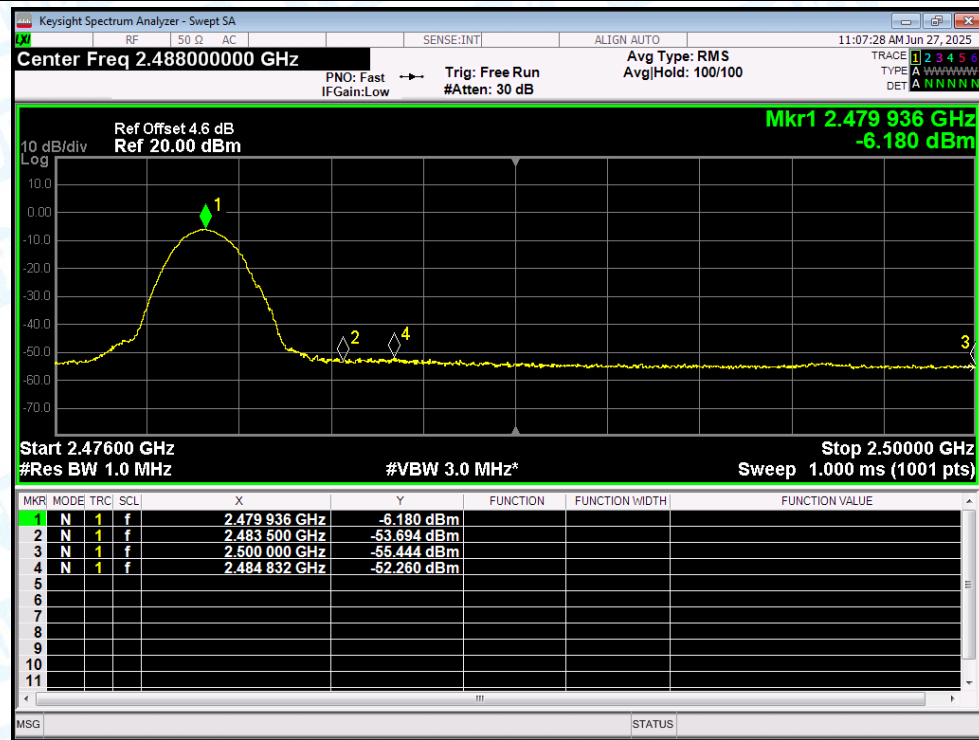
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



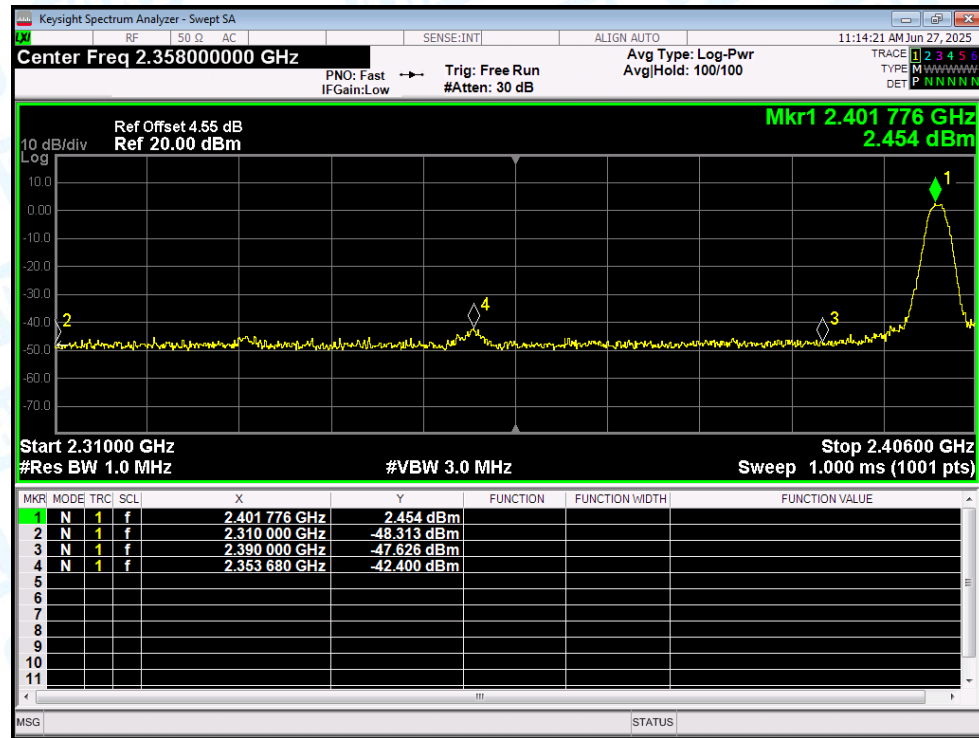
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



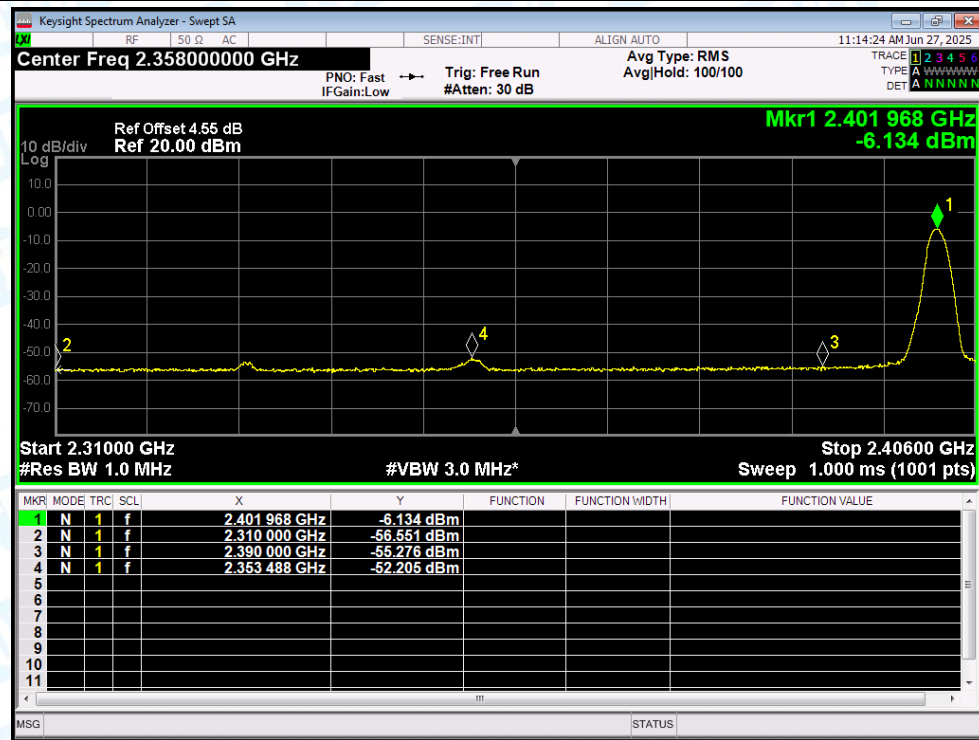
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



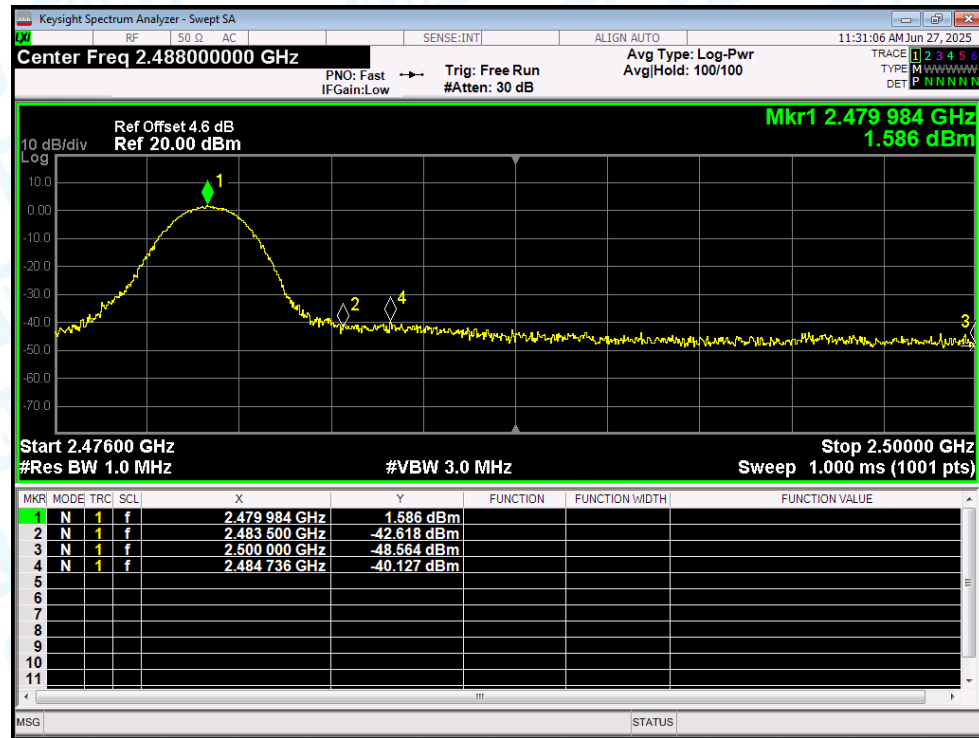
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



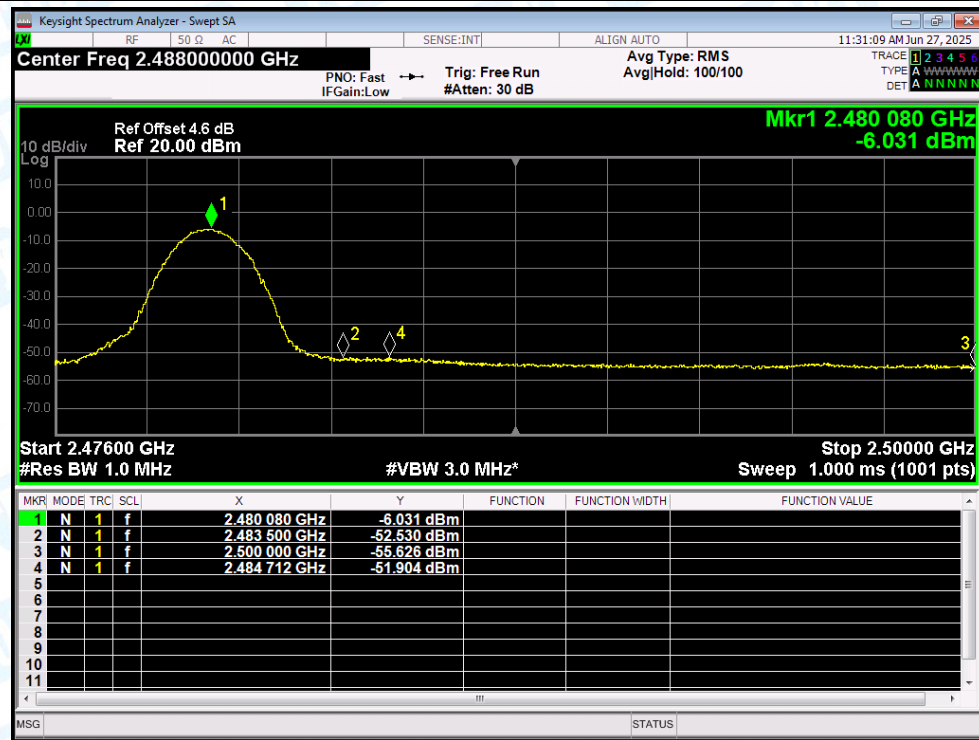
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

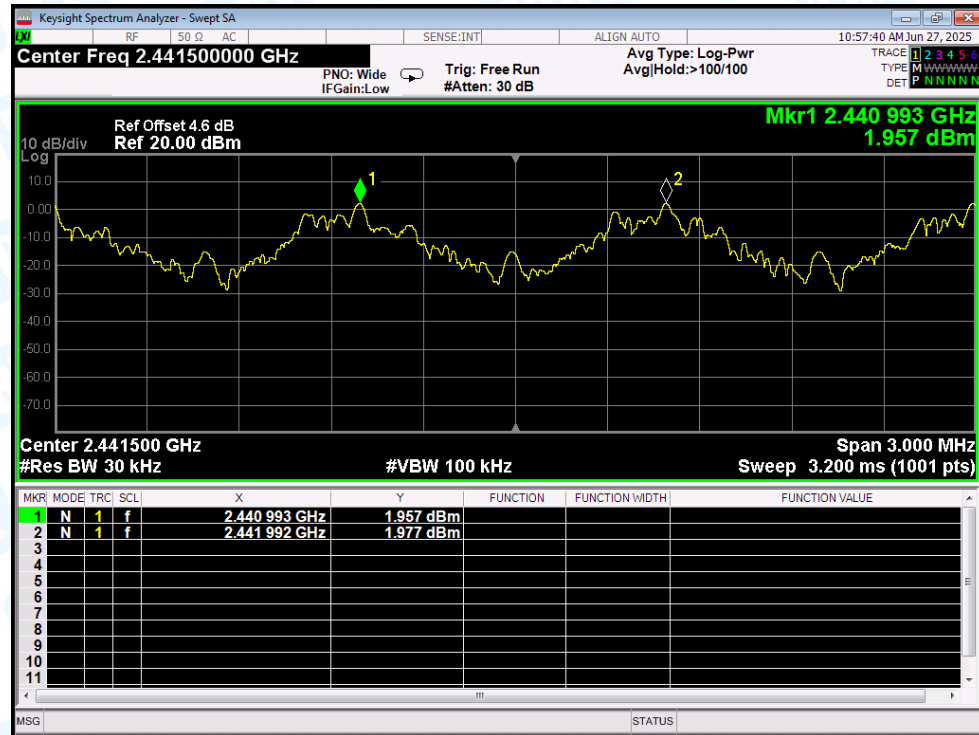


9. Carrier Frequencies Separation

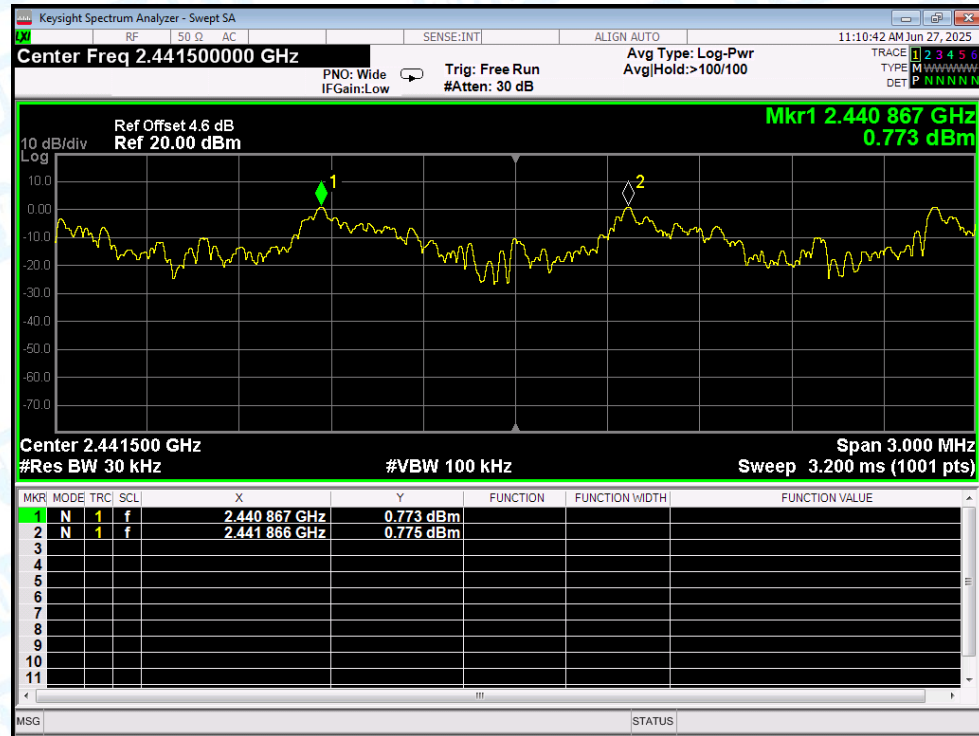
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.993	2441.992	0.999	0.647	Pass
NVNT	2-DH1	Ant1	2440.867	2441.866	0.999	0.847	Pass
NVNT	3-DH1	Ant1	2440.831	2441.911	1.08	0.860	Pass

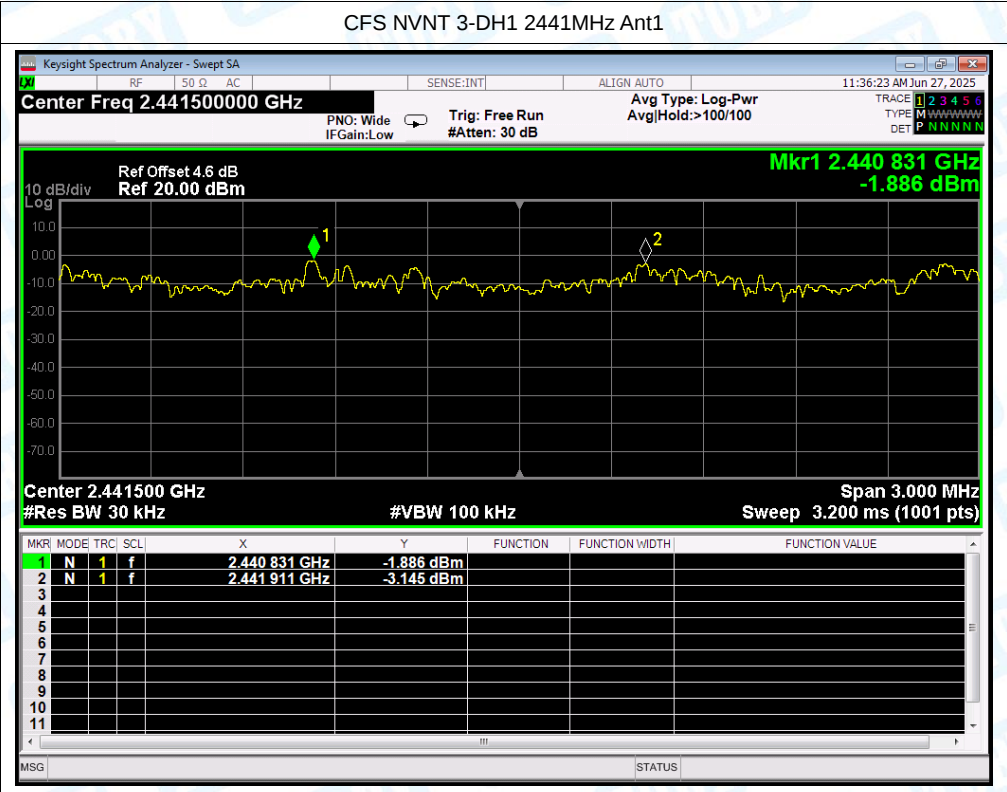
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



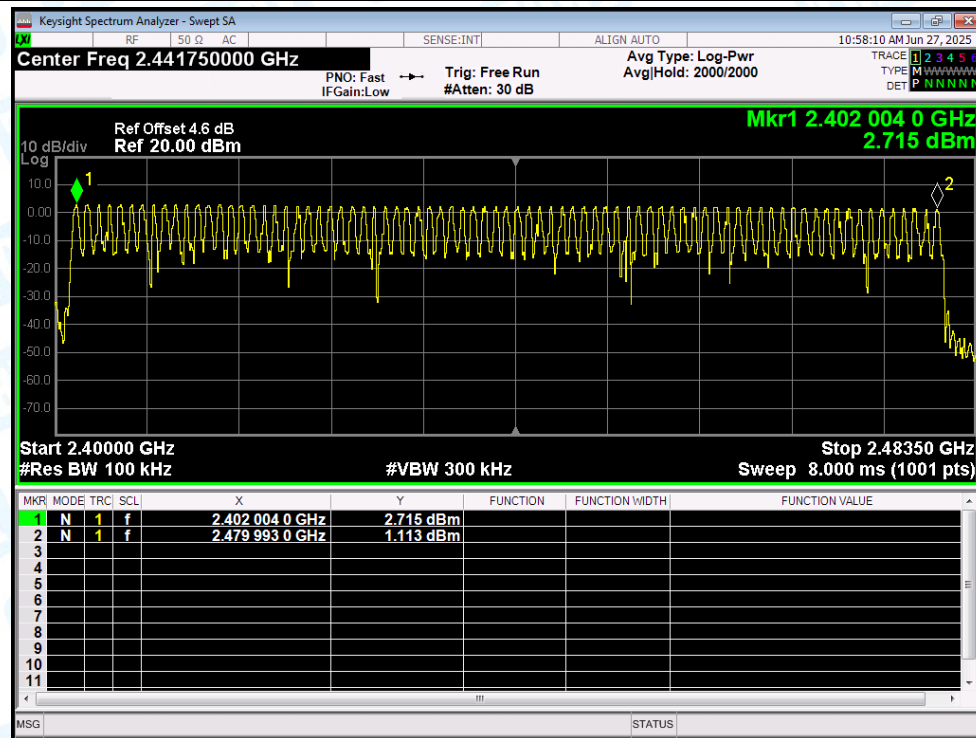


10. Number of Hopping Channel

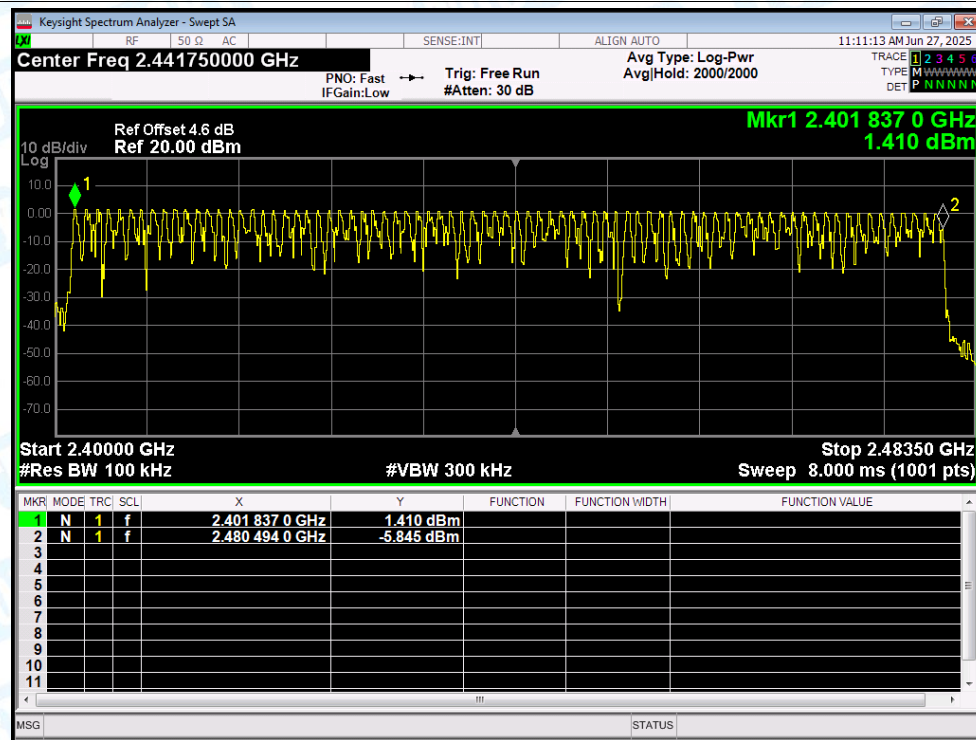
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

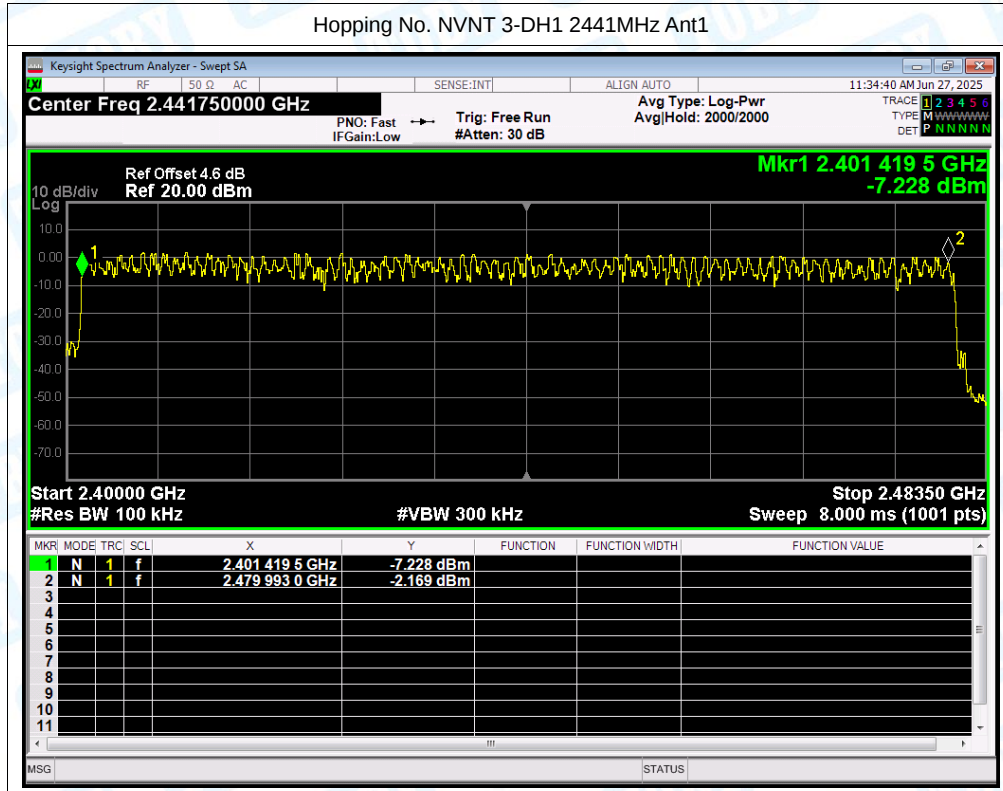
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



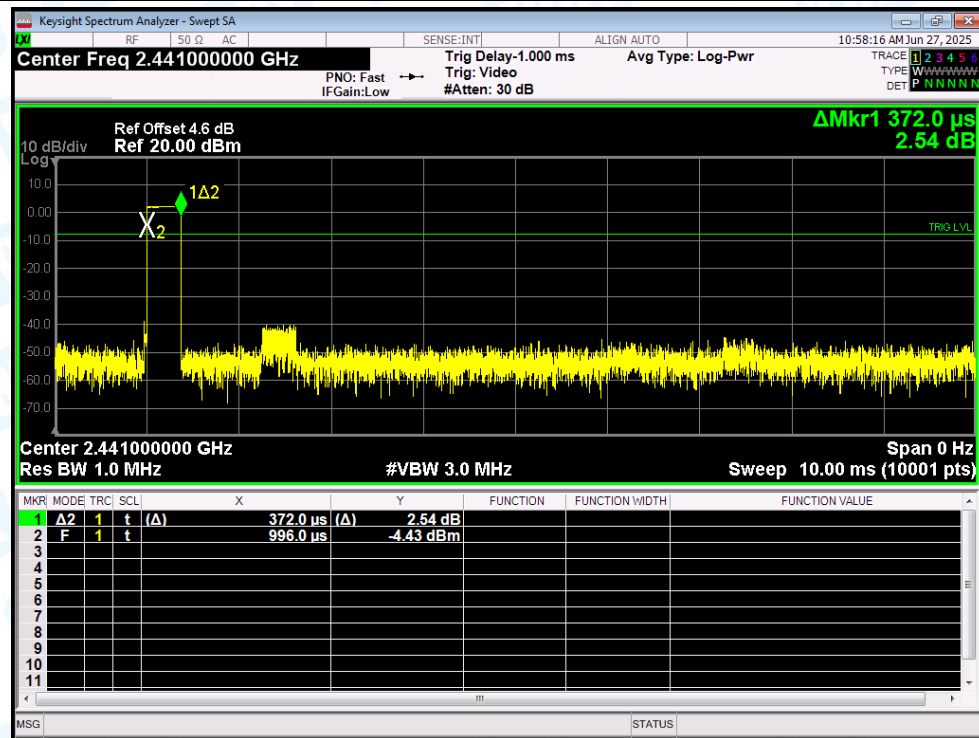


11. Dwell Time

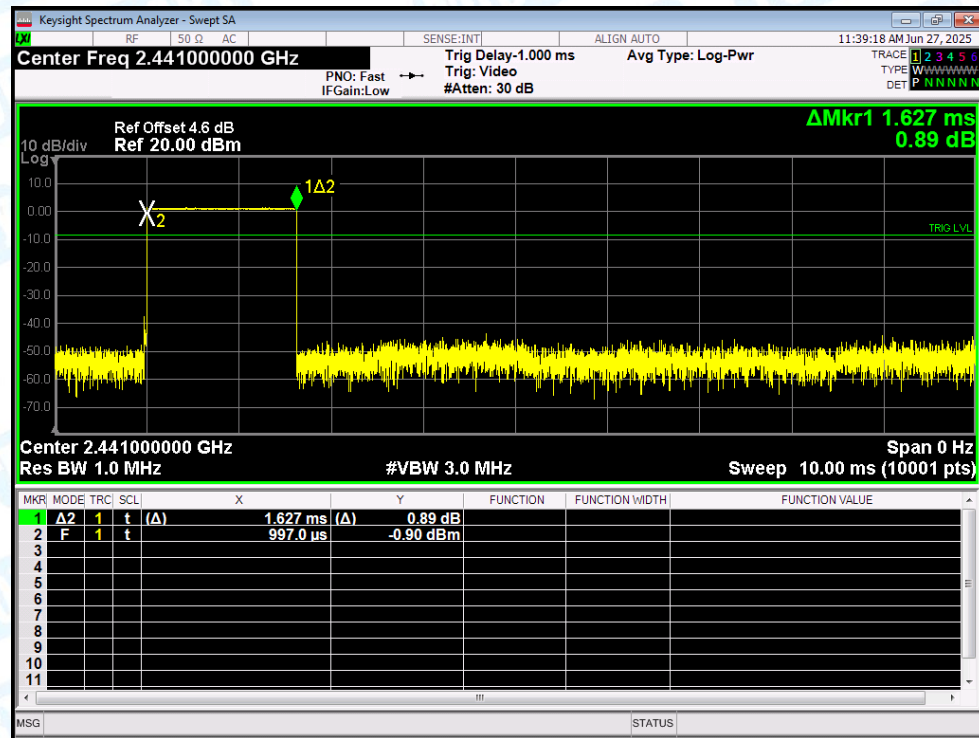
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.372	119.04	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.627	260.32	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.876	306.773	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.633	261.28	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.881	307.307	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.381	121.92	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

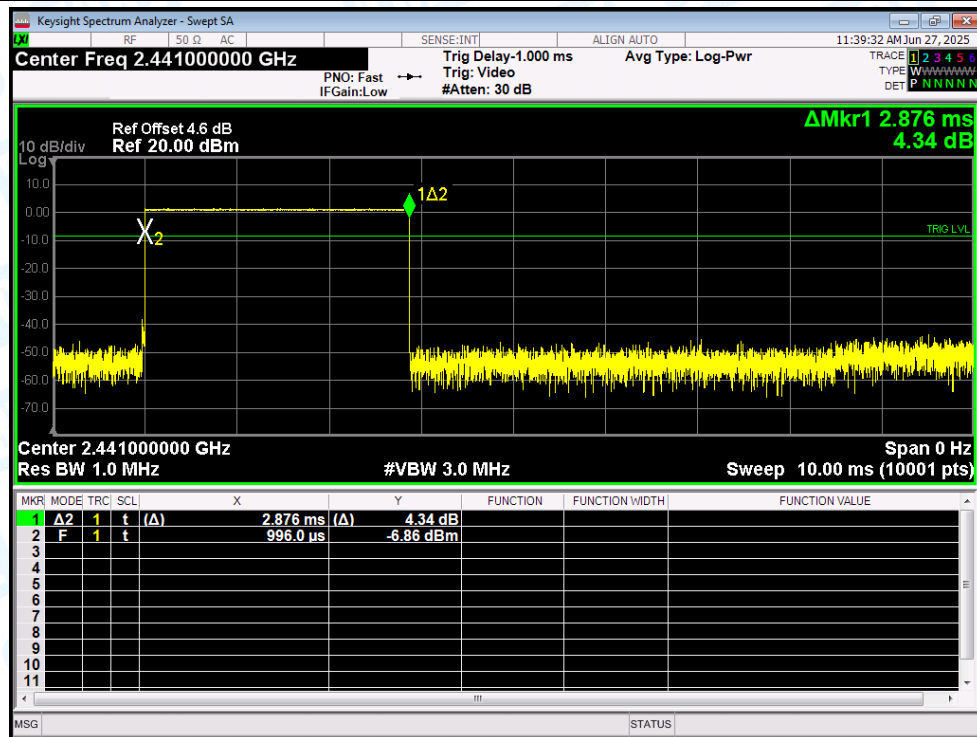
Dwell NVNT 1-DH1 2441MHz Ant1



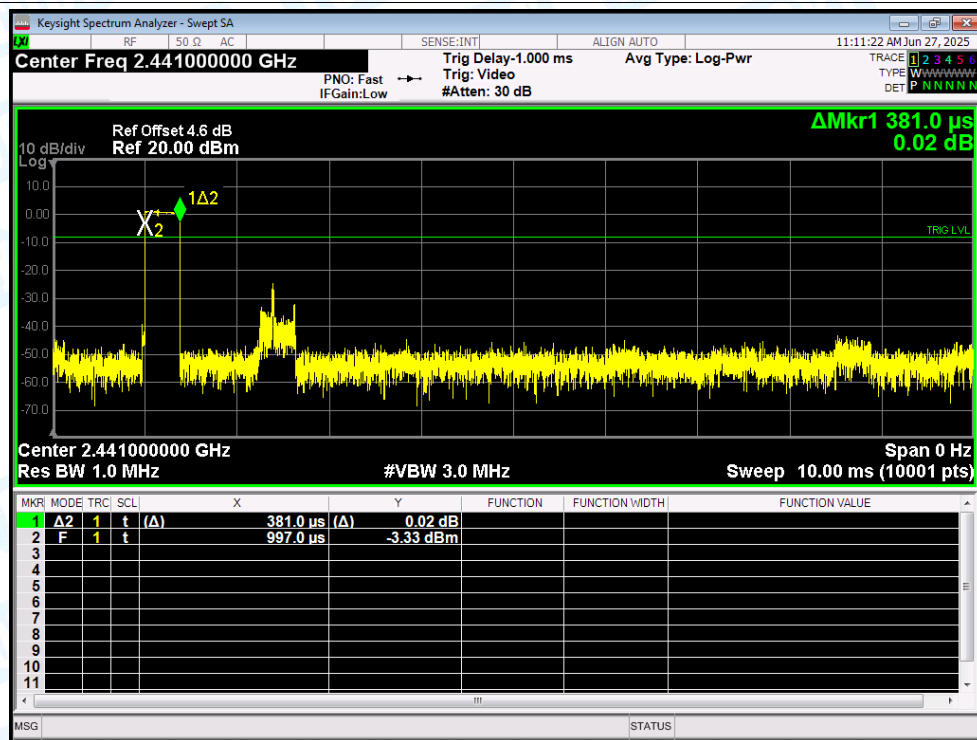
Dwell NVNT 1-DH3 2441MHz Ant1



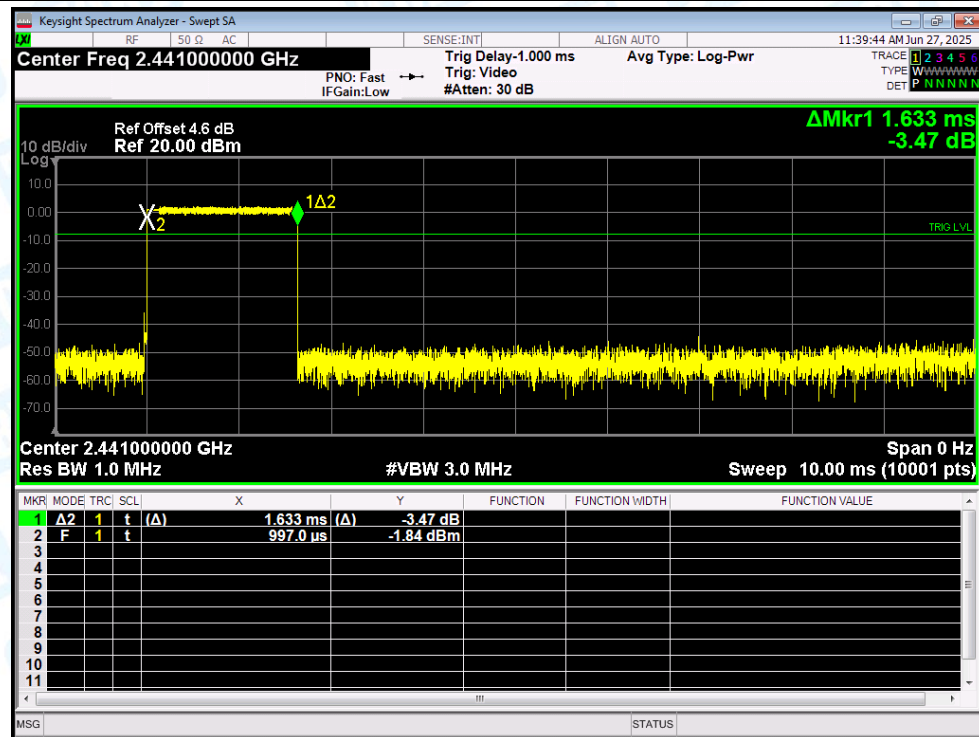
Dwell NVNT 1-DH5 2441MHz Ant1



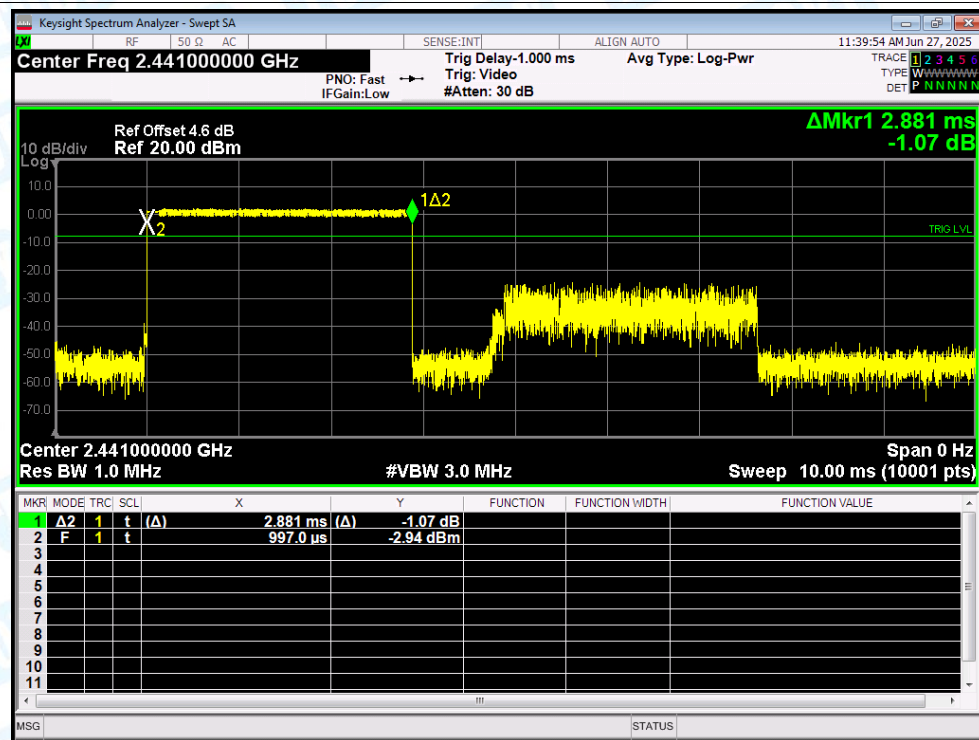
Dwell NVNT 2-DH1 2441MHz Ant1



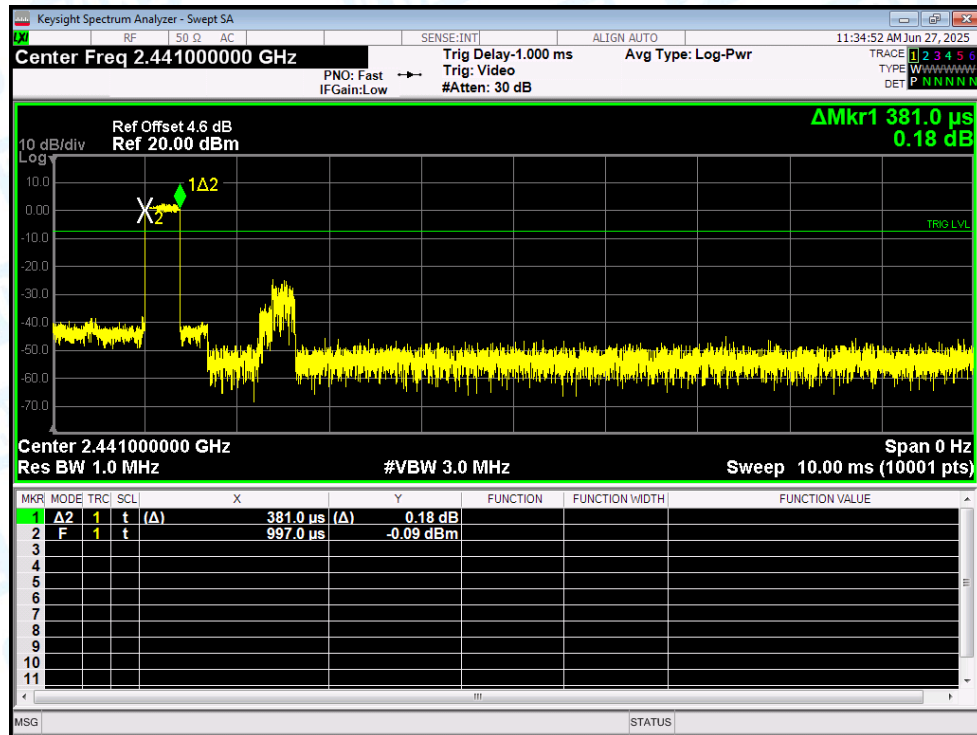
Dwell NVNT 2-DH3 2441MHz Ant1



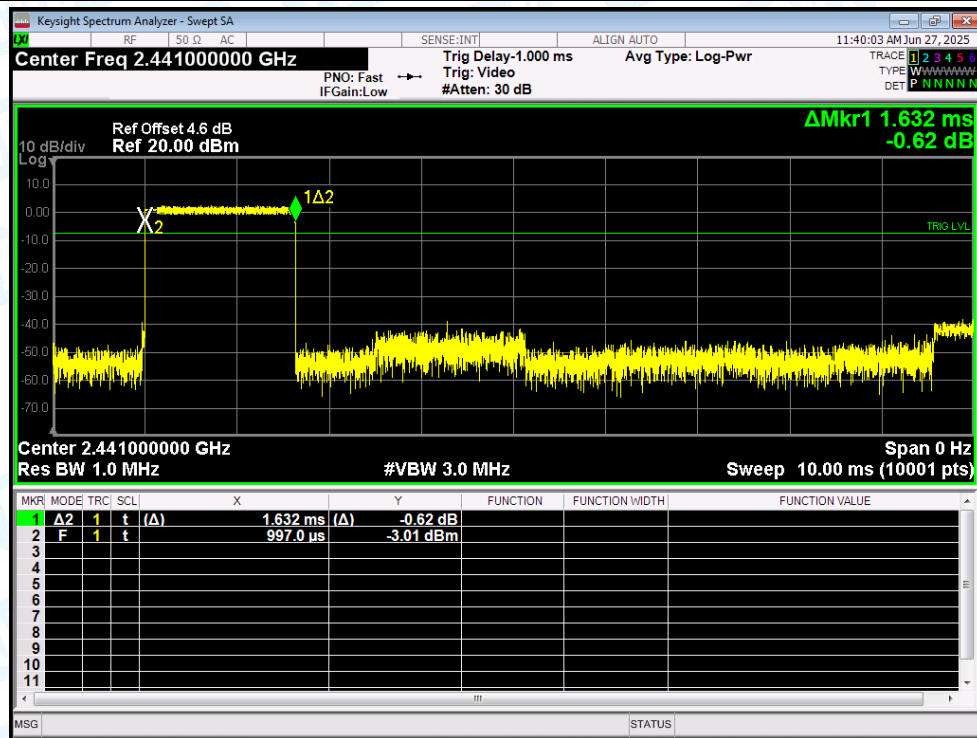
Dwell NVNT 2-DH5 2441MHz Ant1

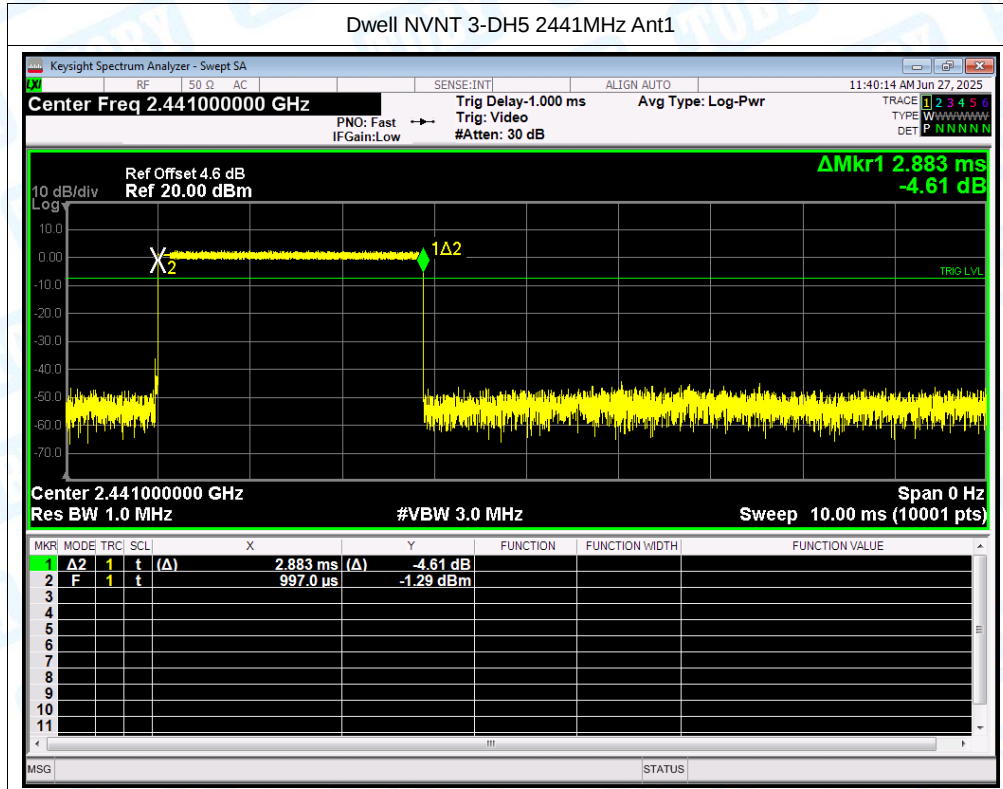


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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