

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Smart glasses
Test Model:	V03
Sample ID:	HC-C-202504-0205-01-01
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	52.6%
Test Voltage:	DC 3.8V
Test Engineer:	Gold zhang
Note: For a more detailed features description, please refer to the report TBR-C-202504-0205-11 The report only show the worst case data.	

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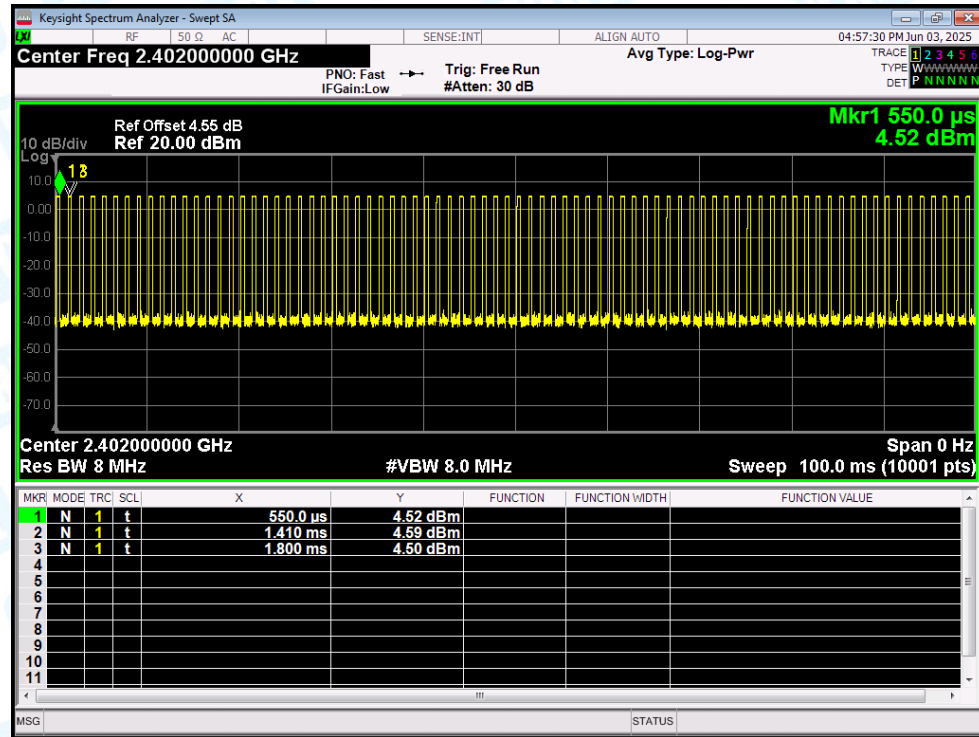
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1. Duty Cycle

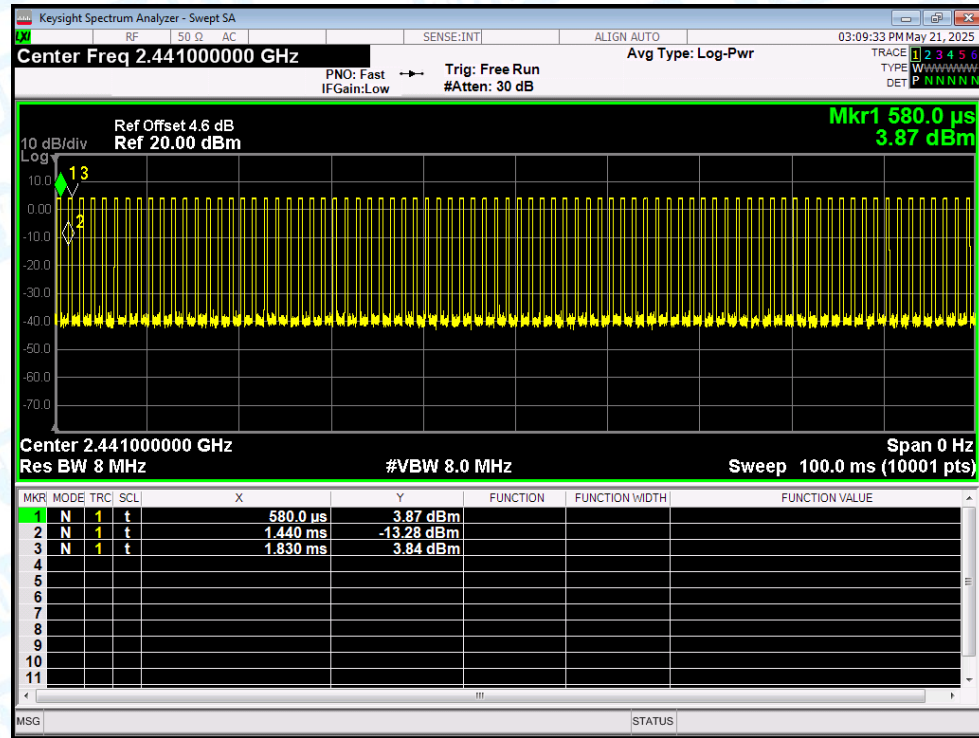
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	3-DH1	2402	Ant1	32	4.95	2.5
NVNT	3-DH1	2441	Ant1	32	4.95	2.5
NVNT	3-DH1	2480	Ant1	31.45	5.02	2.56

Test Graphs

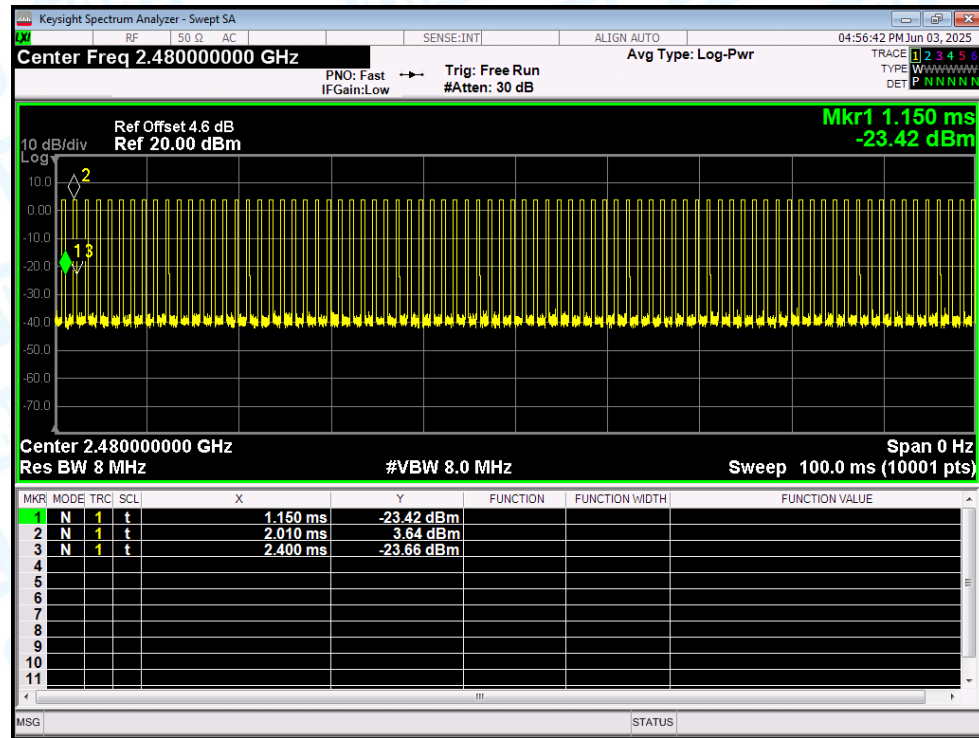
Duty Cycle NVNT 1-DH1 2402MHz Ant1



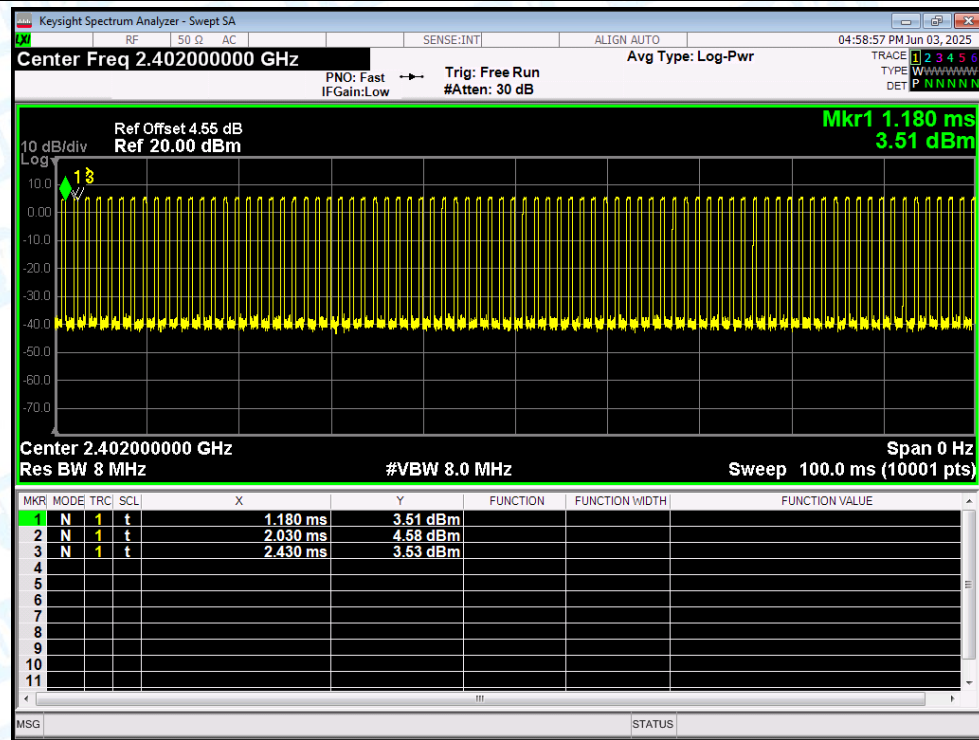
Duty Cycle NVNT 1-DH1 2441MHz Ant1



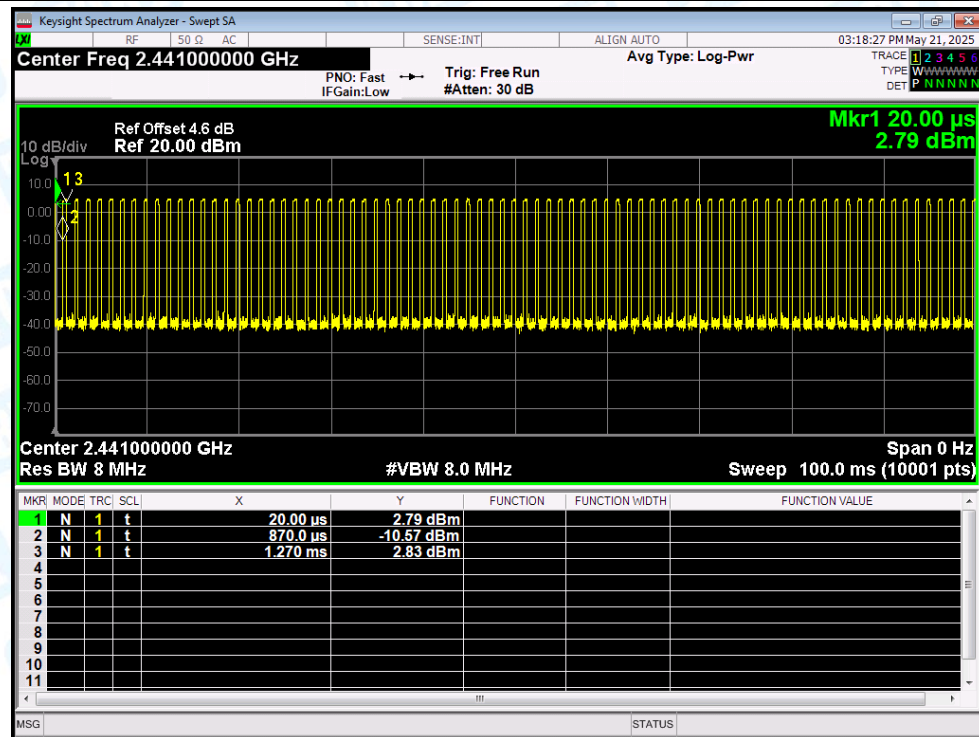
Duty Cycle NVNT 1-DH1 2480MHz Ant1



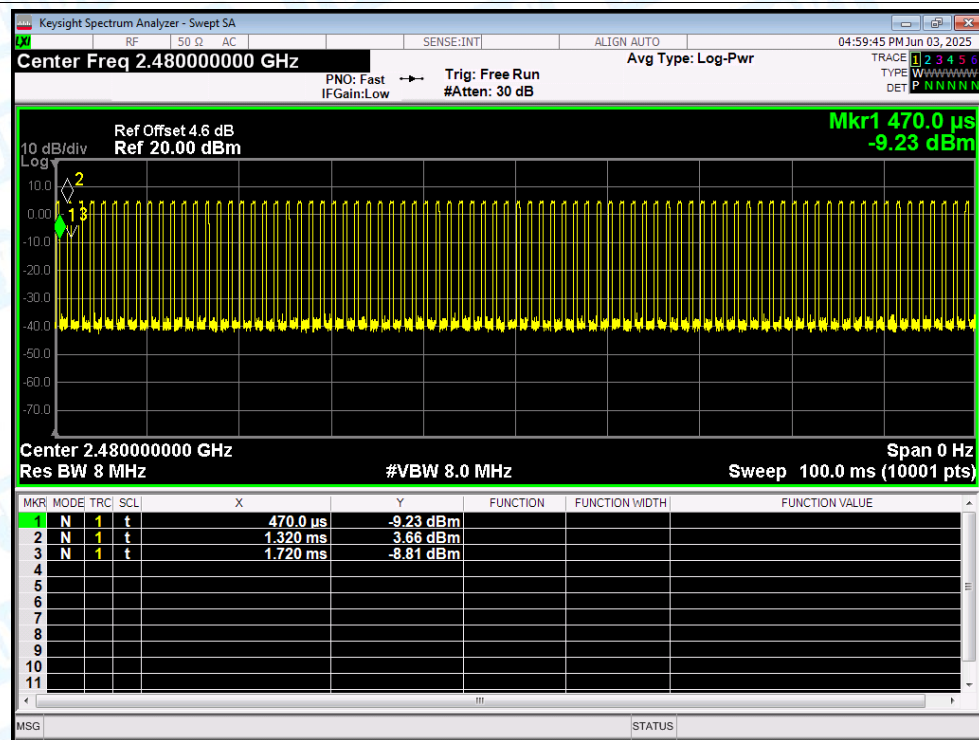
Duty Cycle NVNT 2-DH1 2402MHz Ant1



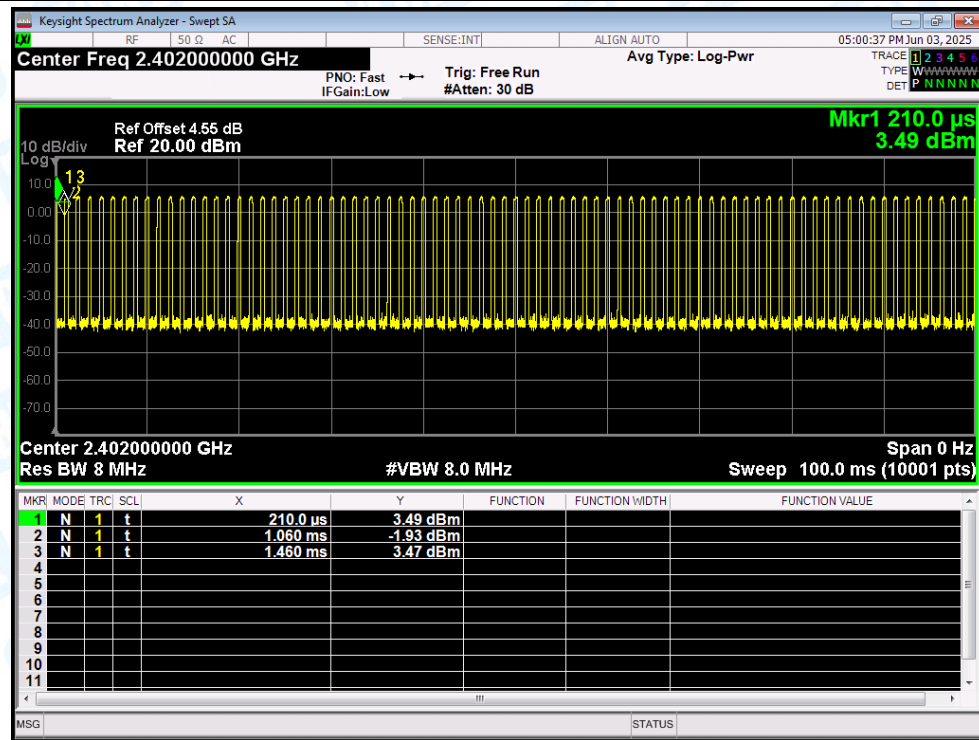
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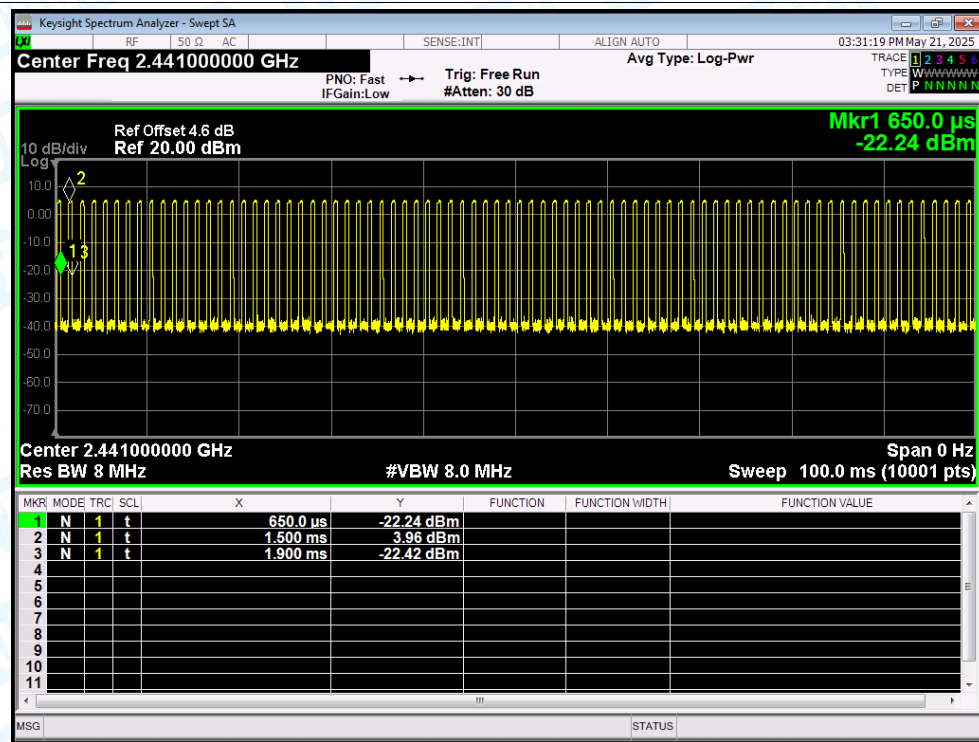
Duty Cycle NVNT 2-DH1 2480MHz Ant1

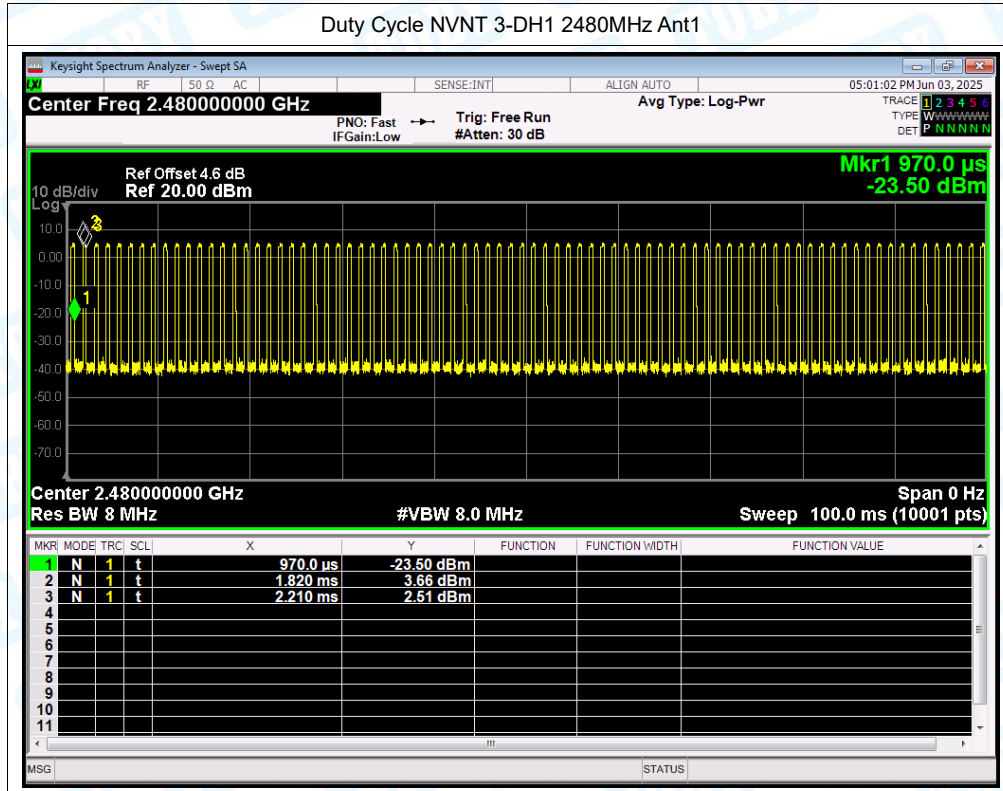


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



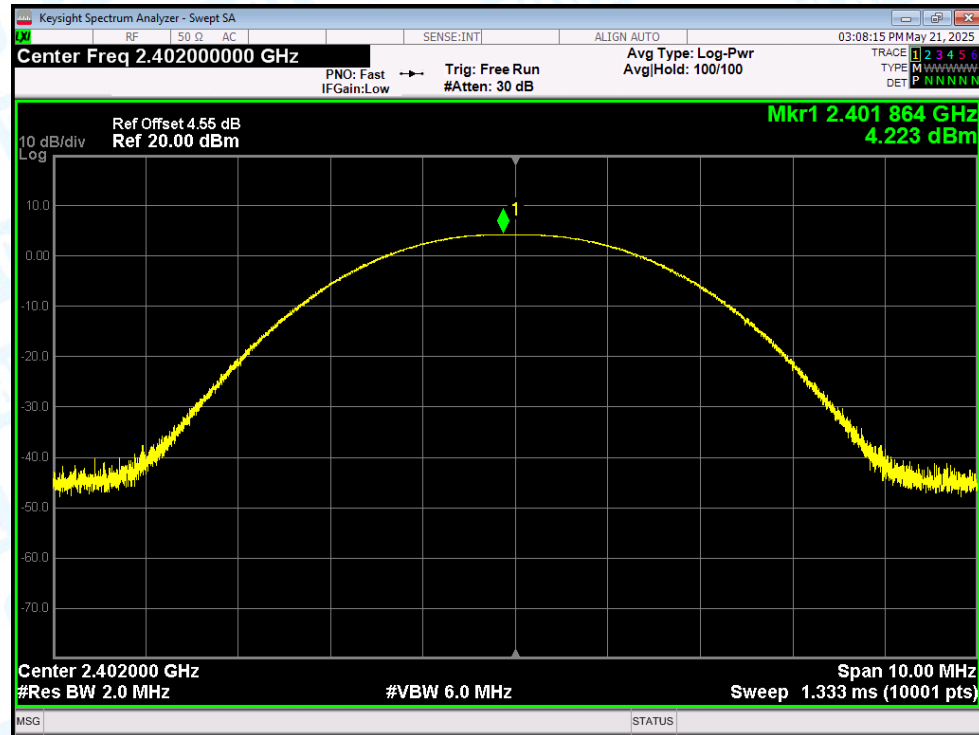


2. Maximum Conducted Output Power

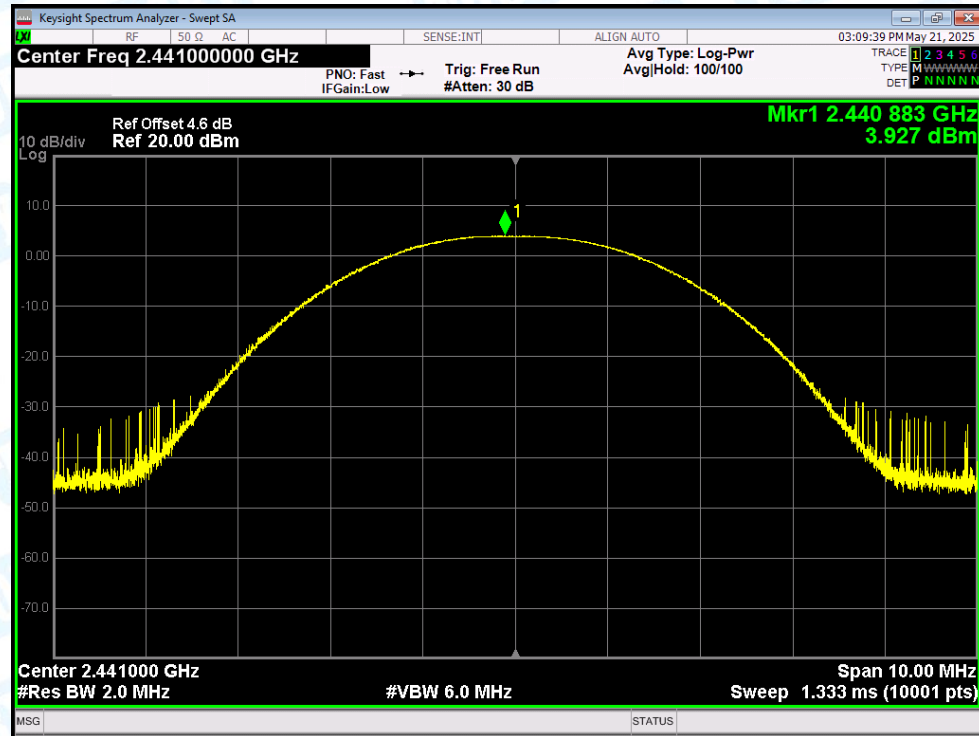
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	4.223	21	Pass
NVNT	1-DH1	2441	Ant1	3.927	21	Pass
NVNT	1-DH1	2480	Ant1	3.588	21	Pass
NVNT	2-DH1	2402	Ant1	4.866	21	Pass
NVNT	2-DH1	2441	Ant1	4.651	21	Pass
NVNT	2-DH1	2480	Ant1	4.303	21	Pass
NVNT	3-DH1	2402	Ant1	5.305	21	Pass
NVNT	3-DH1	2441	Ant1	5.123	21	Pass
NVNT	3-DH1	2480	Ant1	4.796	21	Pass

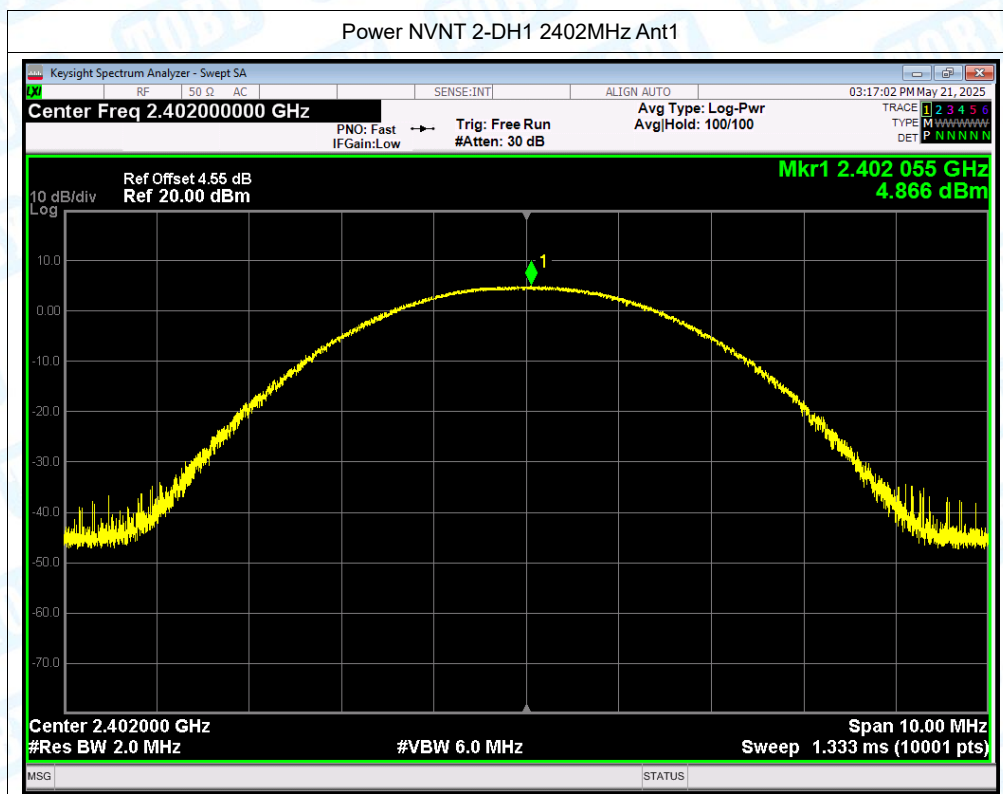
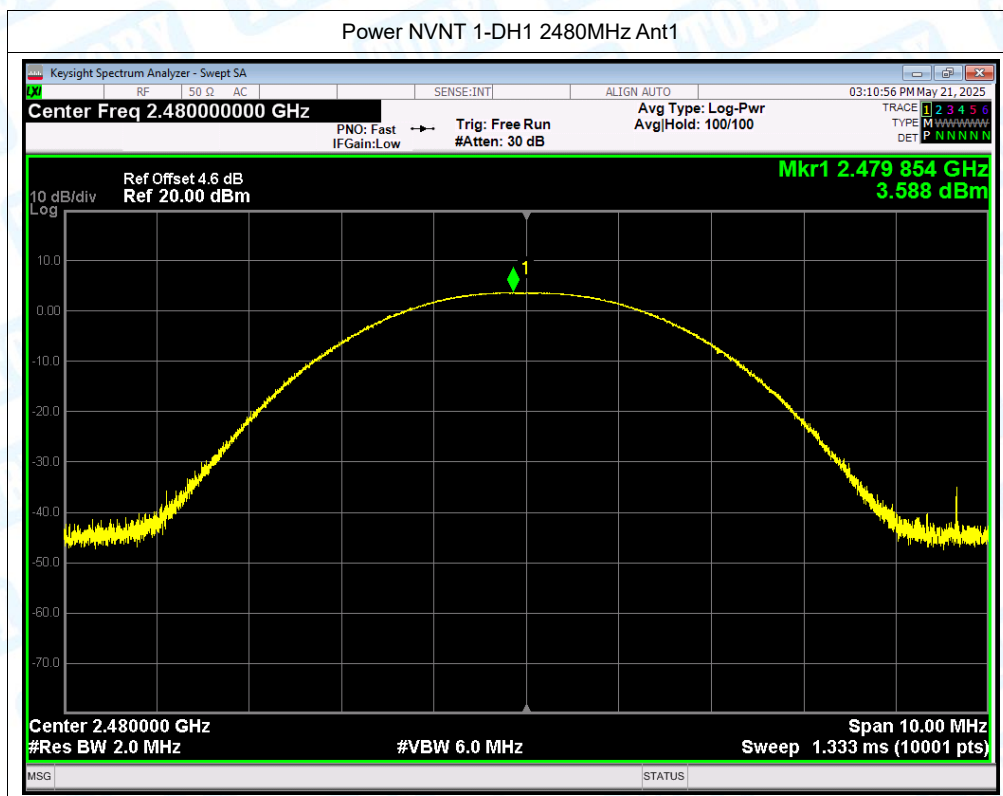
Test Graphs

Power NVNT 1-DH1 2402MHz Ant1

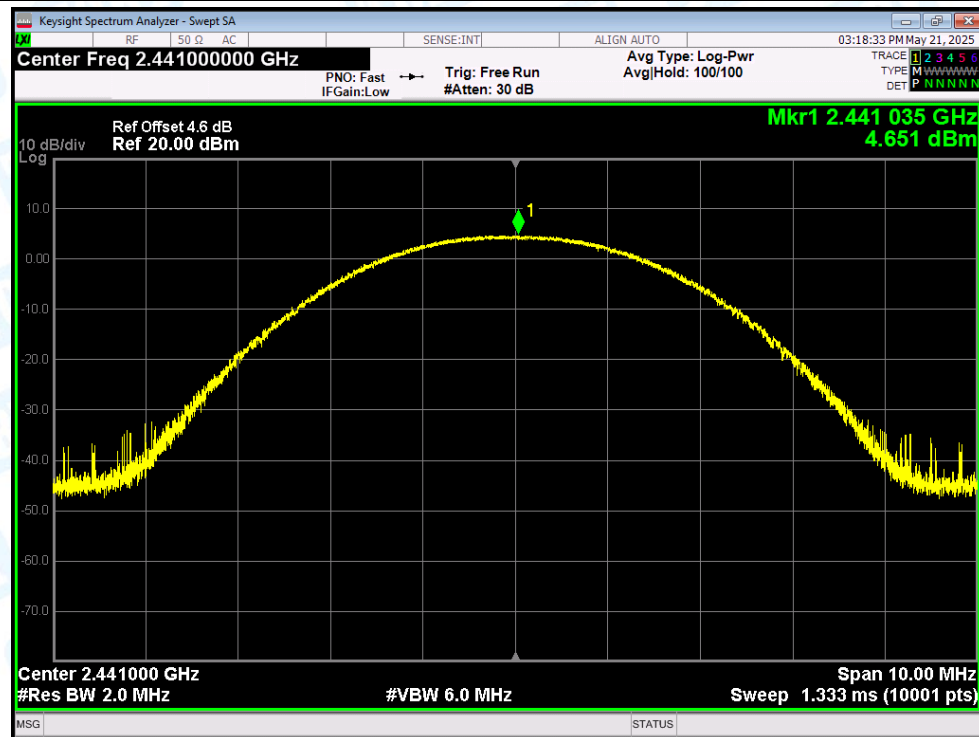


Power NVNT 1-DH1 2441MHz Ant1

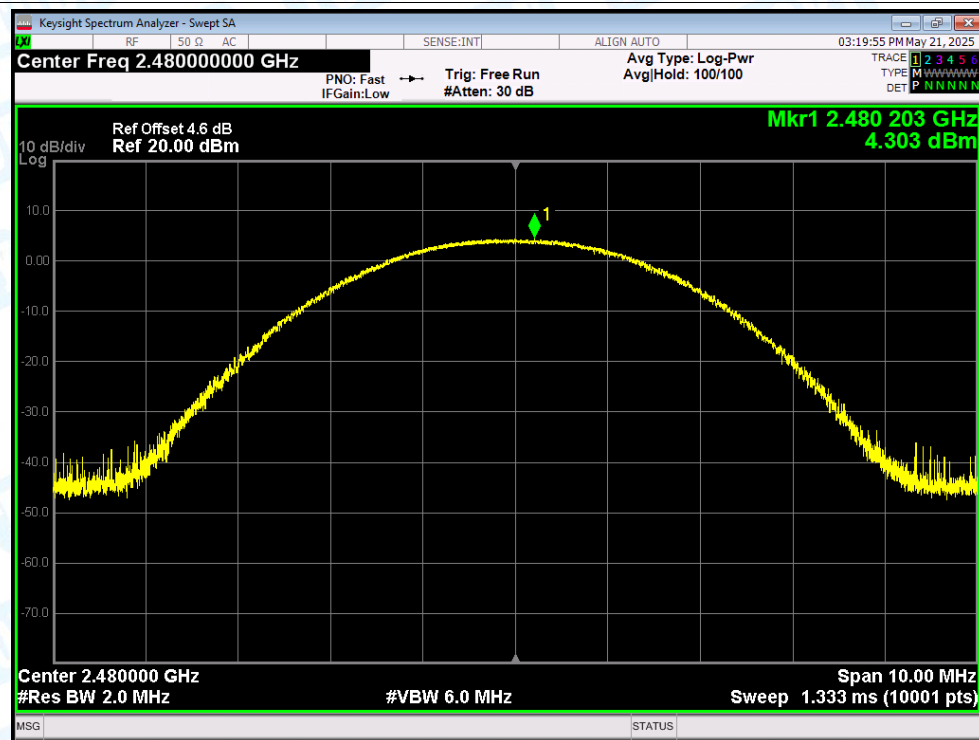




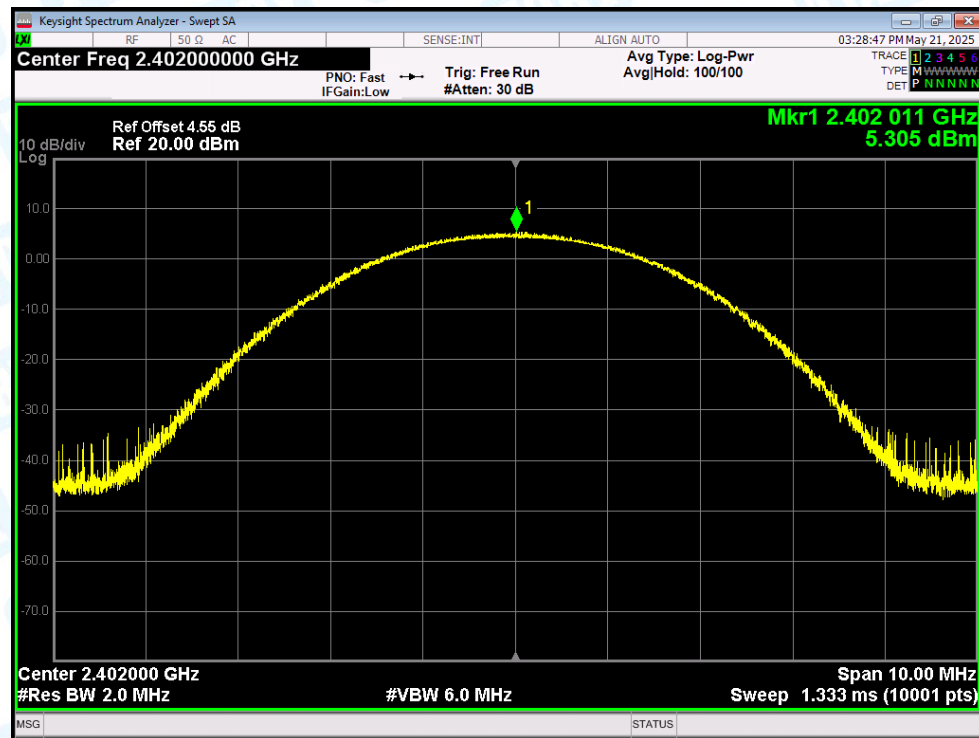
Power NVNT 2-DH1 2441MHz Ant1



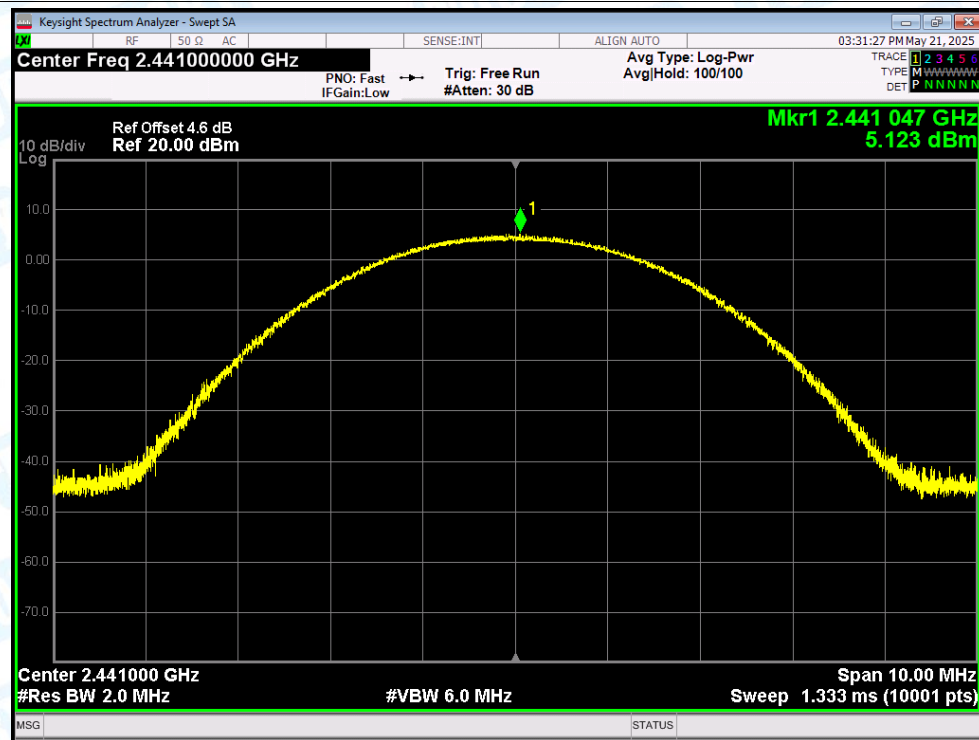
Power NVNT 2-DH1 2480MHz Ant1

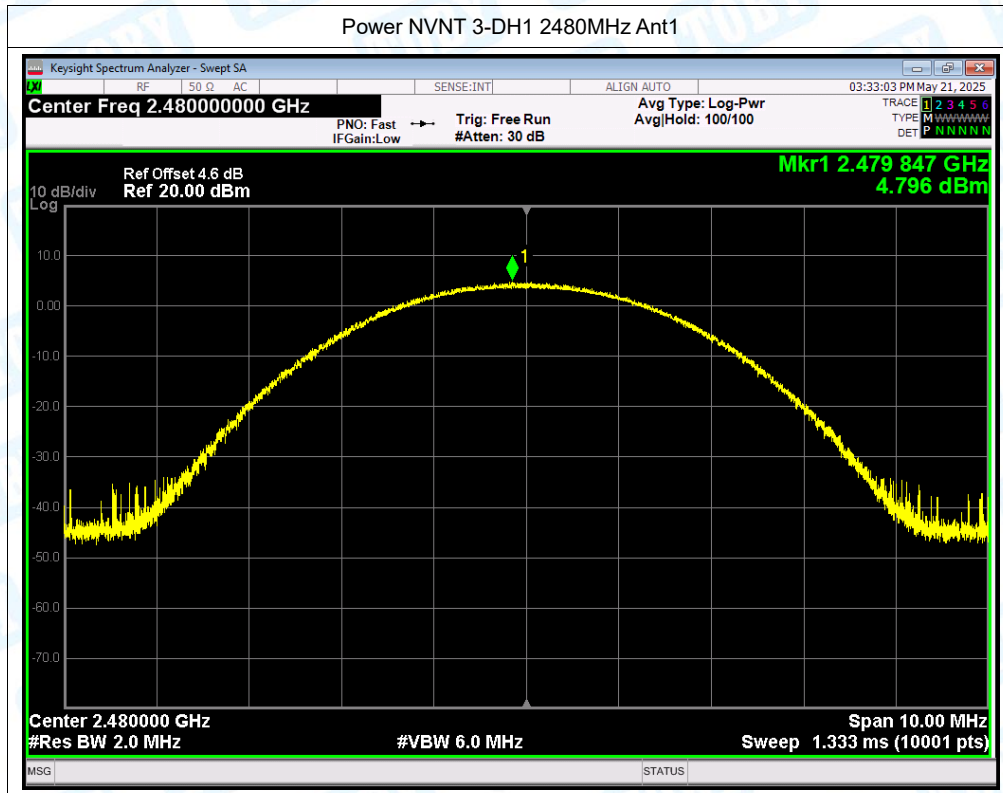


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



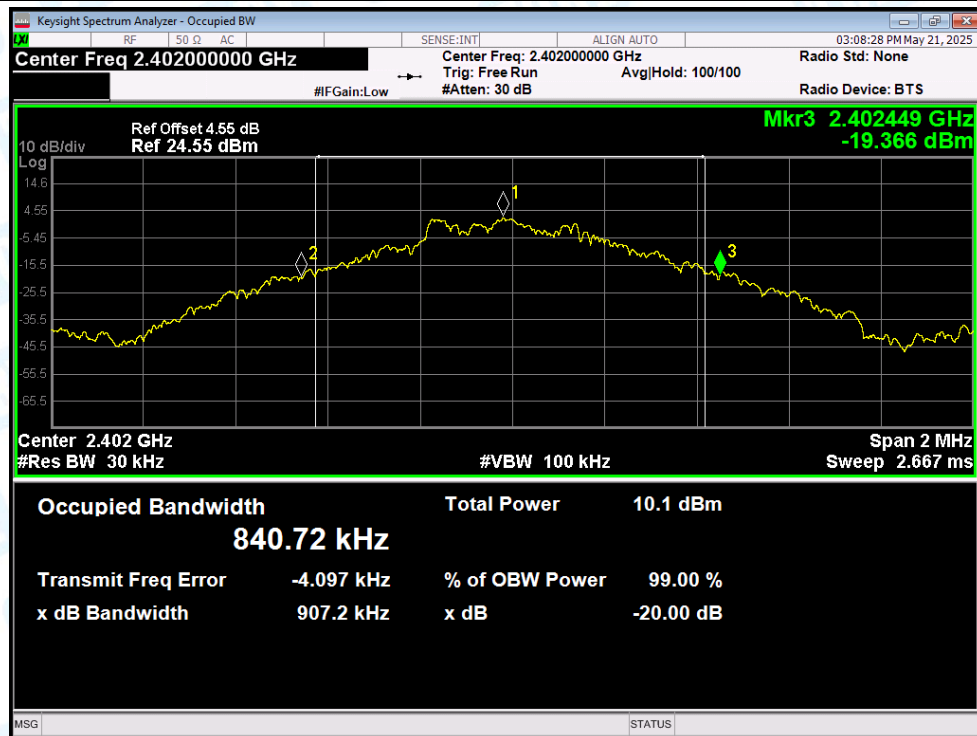


3. -20dB Bandwidth

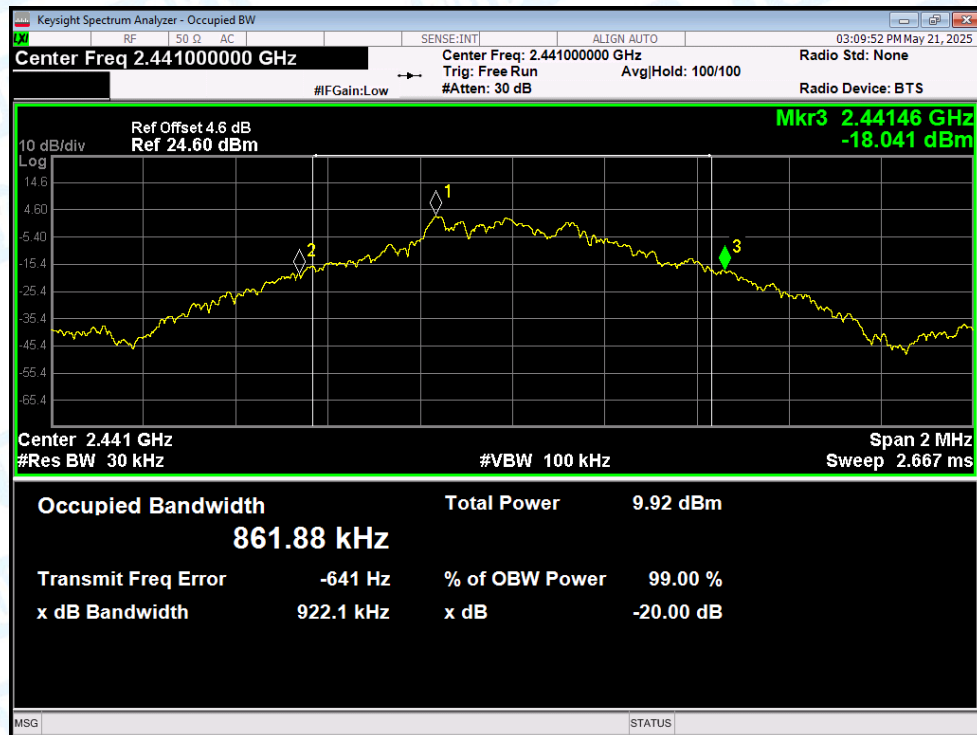
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.91	0	Pass
NVNT	1-DH1	2441	Ant1	0.92	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.25	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.23	0	Pass
NVNT	3-DH1	2402	Ant1	1.22	0	Pass
NVNT	3-DH1	2441	Ant1	1.25	0	Pass
NVNT	3-DH1	2480	Ant1	1.22	0	Pass

Test Graphs

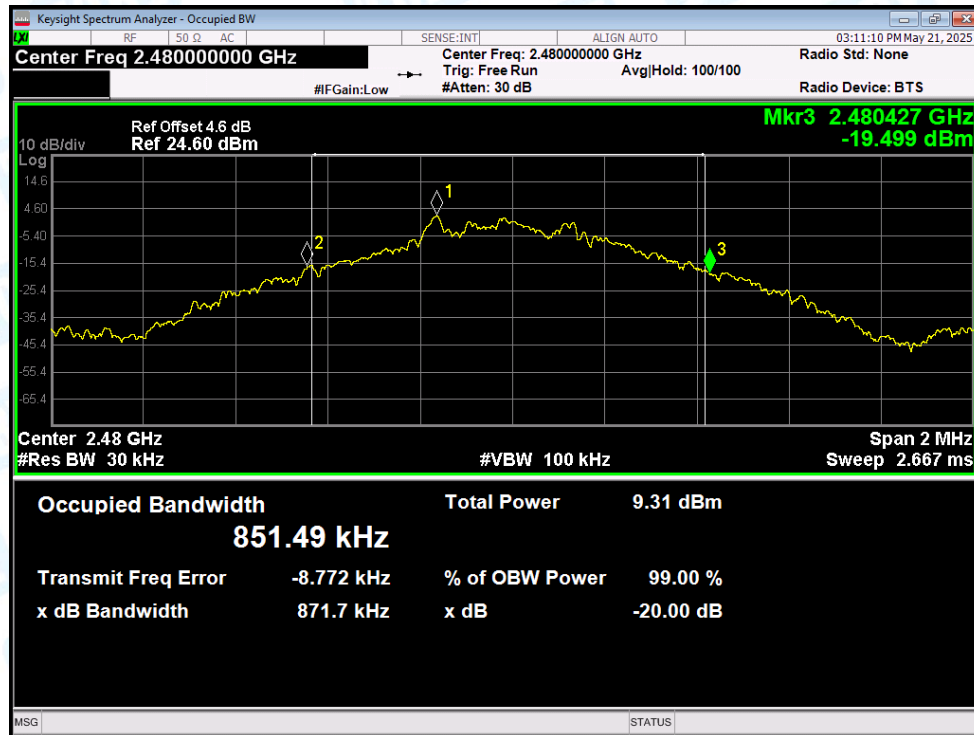
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



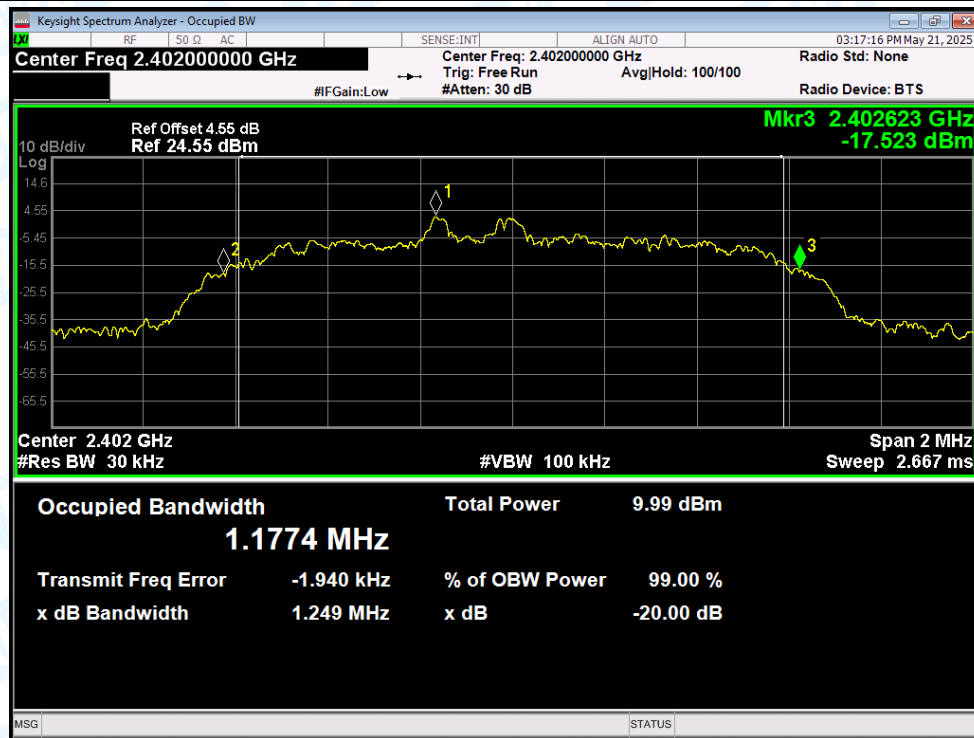
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



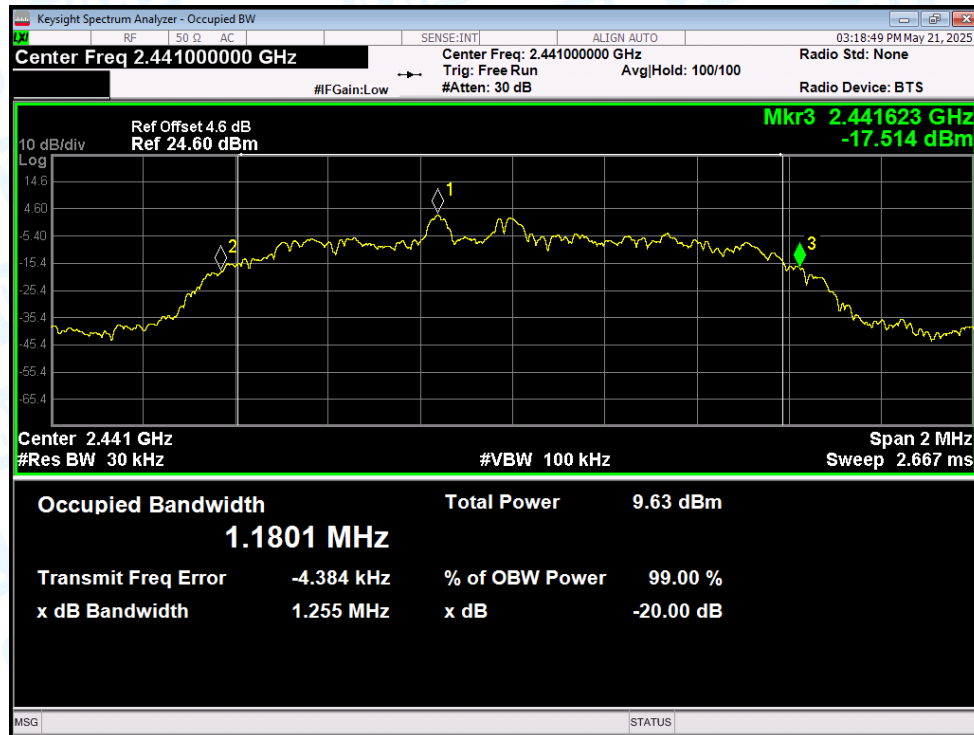
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



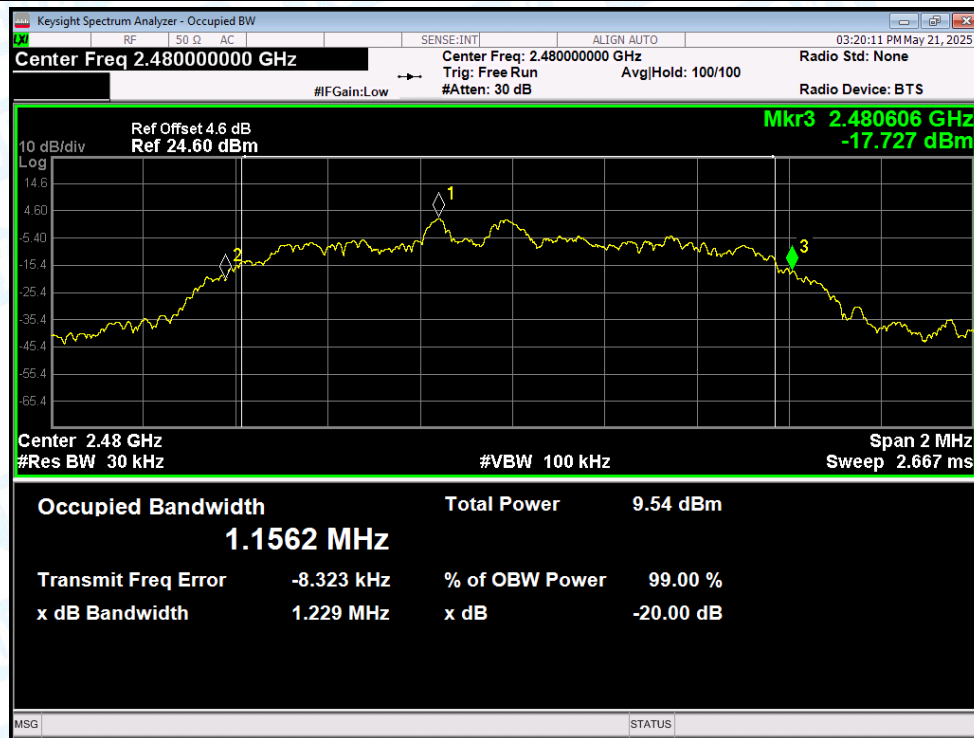
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



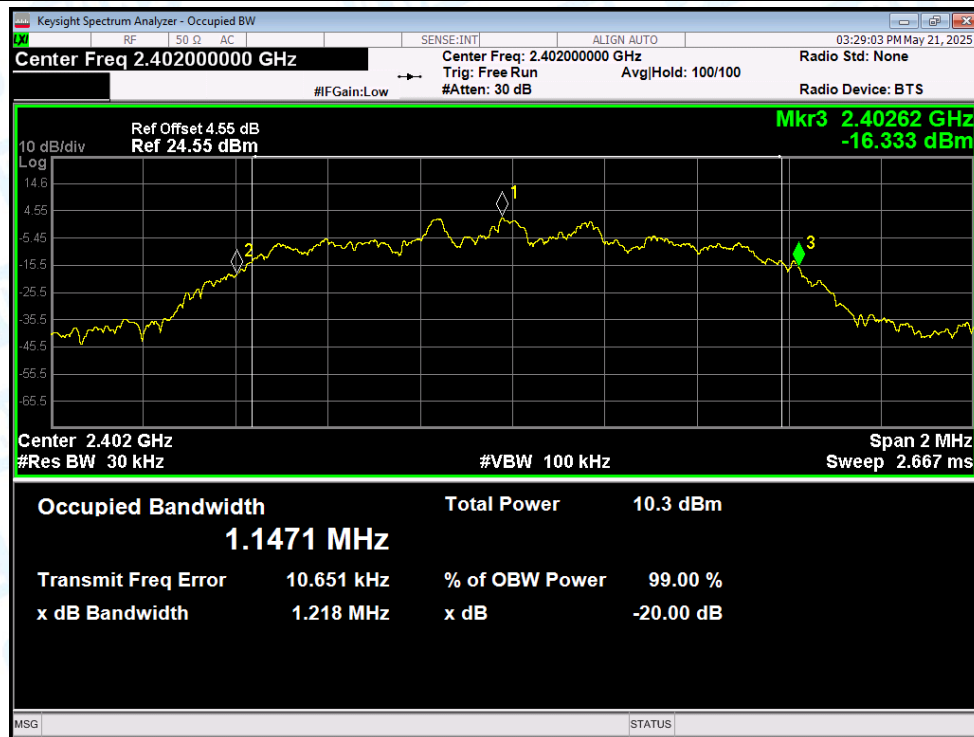
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



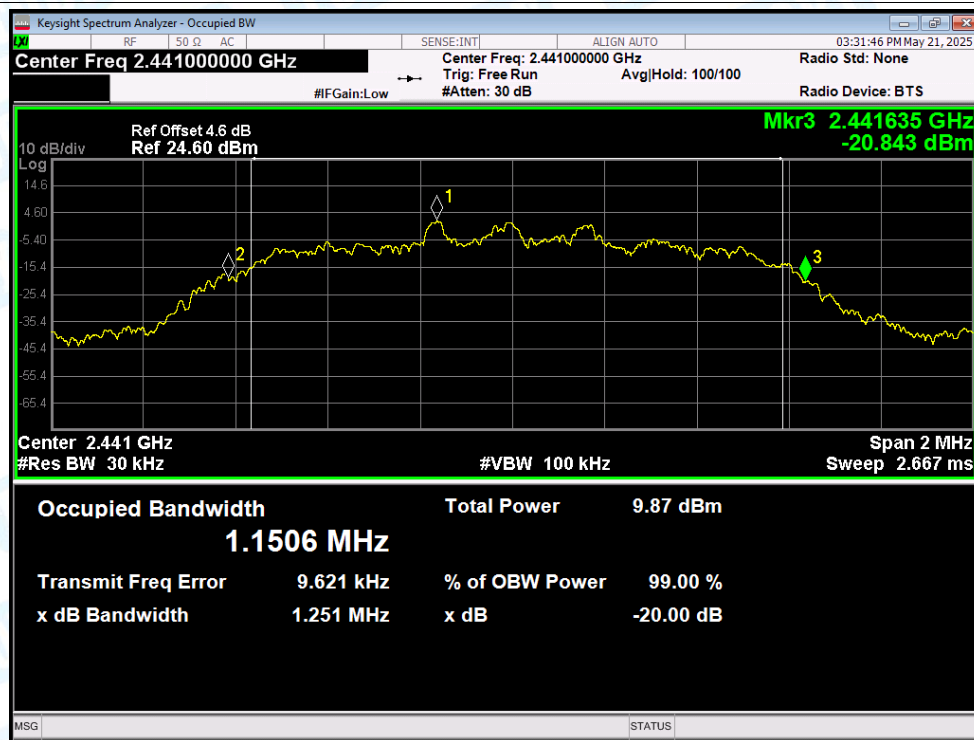
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

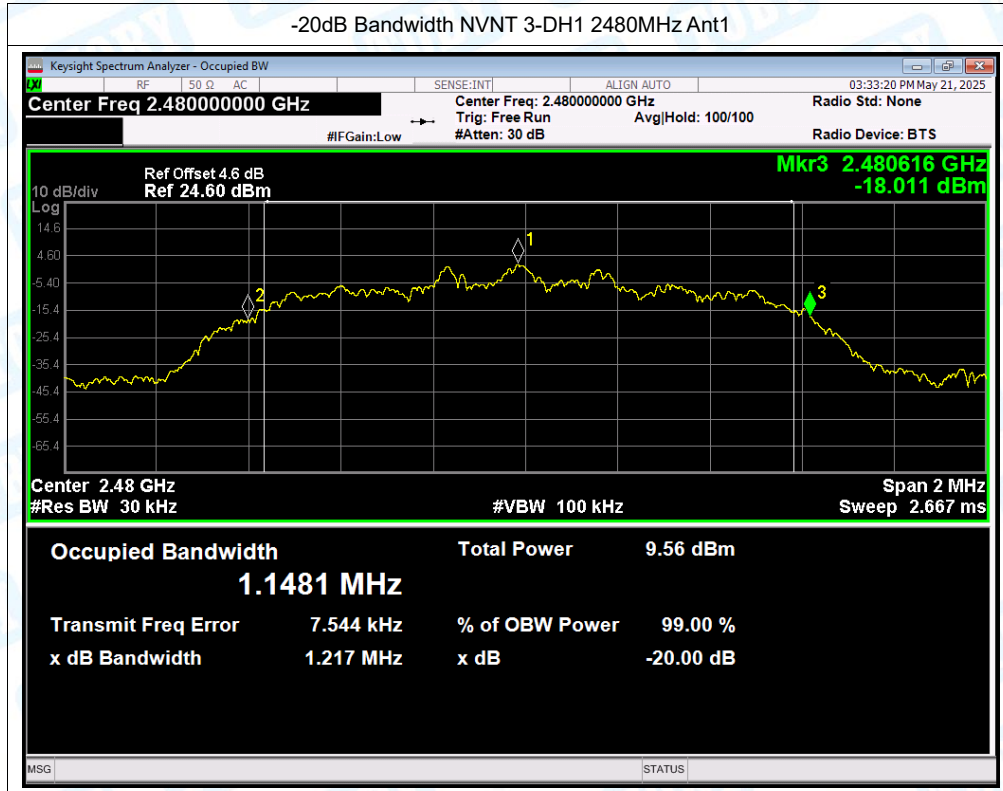


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



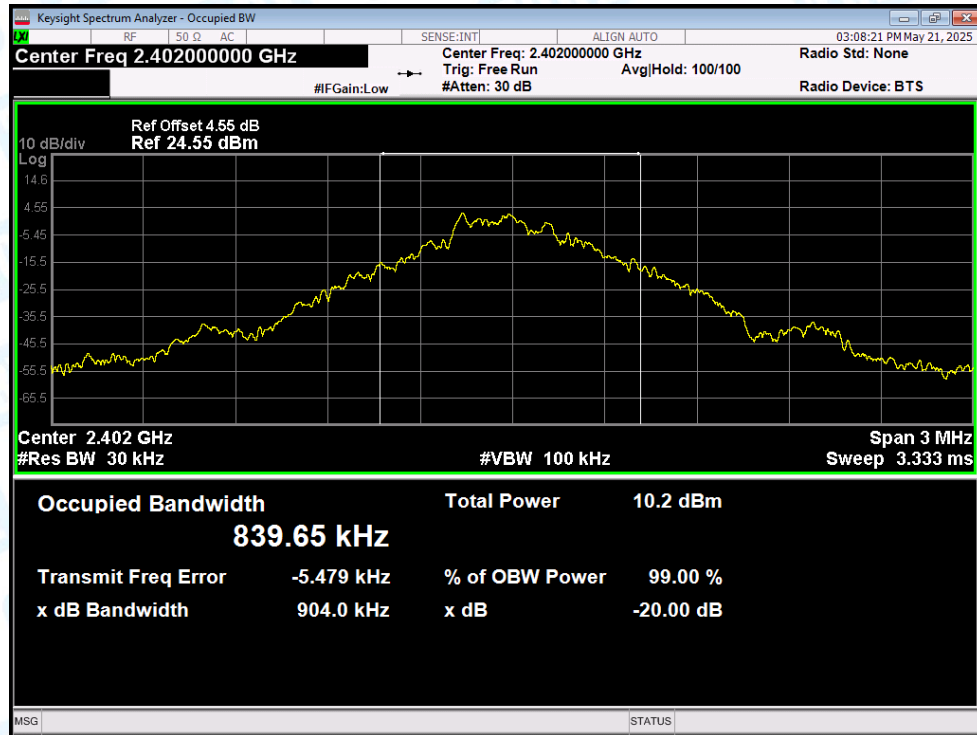


4. Occupied Channel Bandwidth

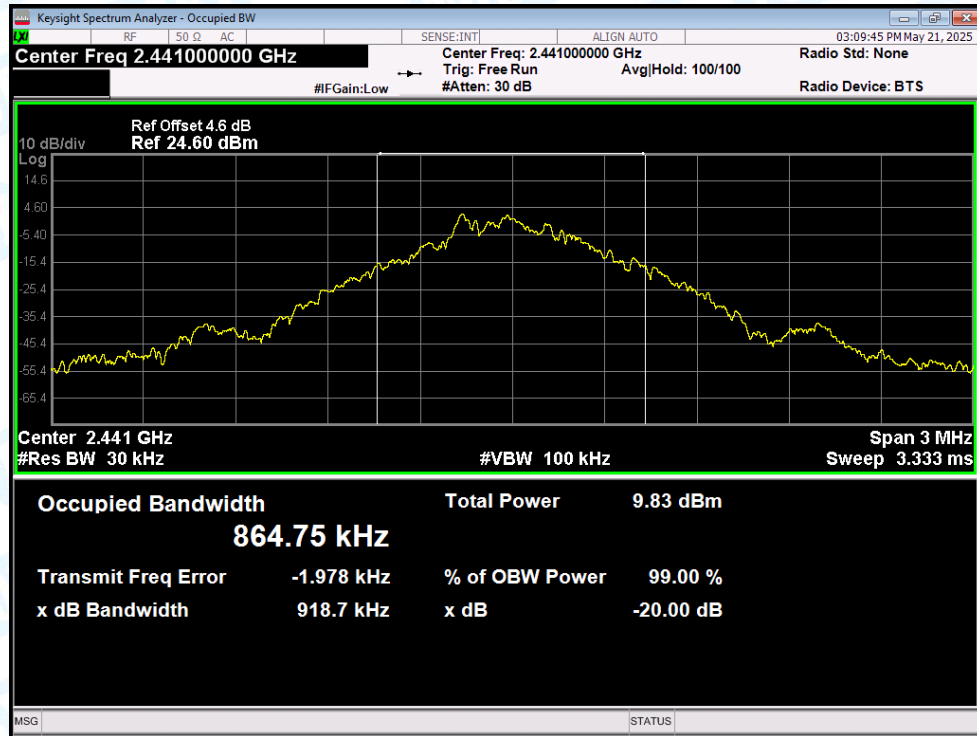
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.84
NVNT	1-DH1	2441	Ant1	0.865
NVNT	1-DH1	2480	Ant1	0.828
NVNT	2-DH1	2402	Ant1	1.164
NVNT	2-DH1	2441	Ant1	1.177
NVNT	2-DH1	2480	Ant1	1.174
NVNT	3-DH1	2402	Ant1	1.153
NVNT	3-DH1	2441	Ant1	1.147
NVNT	3-DH1	2480	Ant1	1.166

Test Graphs

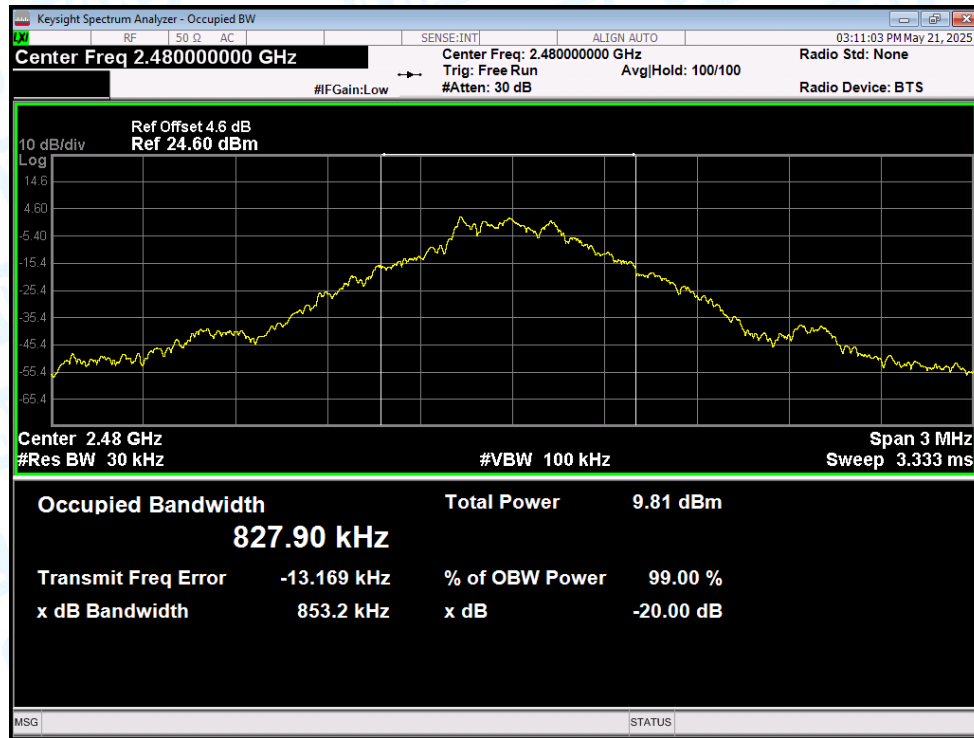
OBW NVNT 1-DH1 2402MHz Ant1



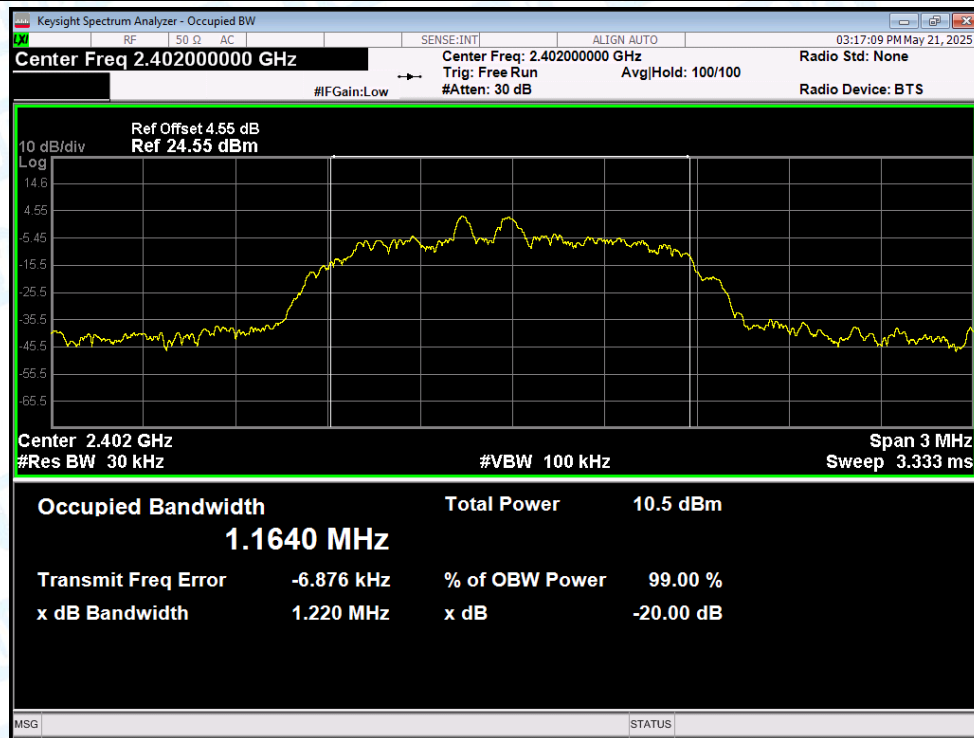
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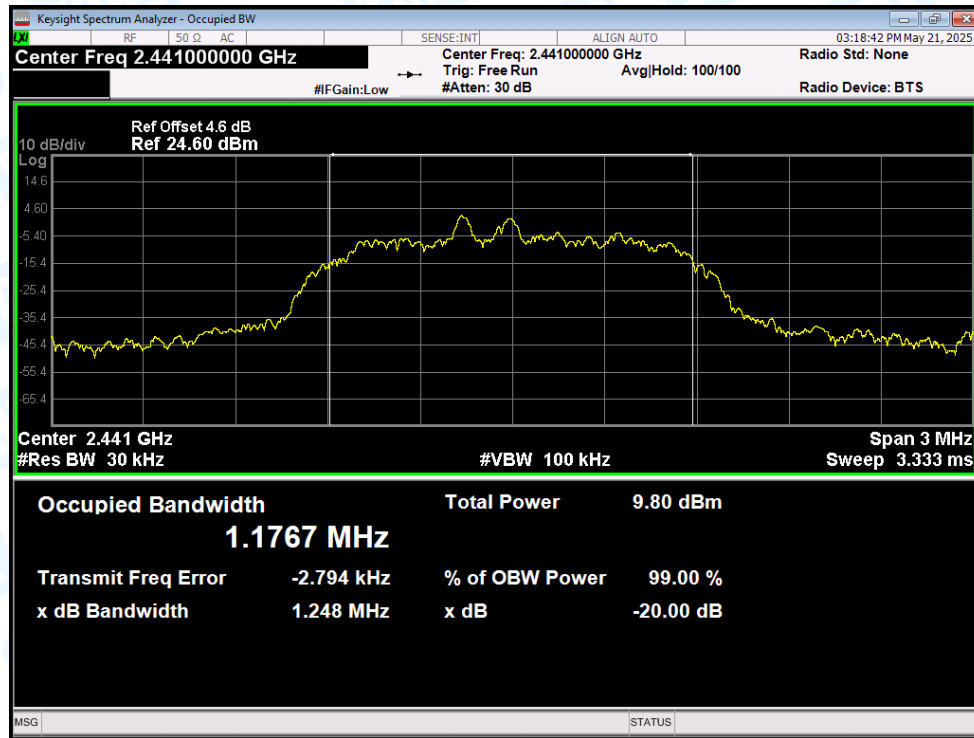
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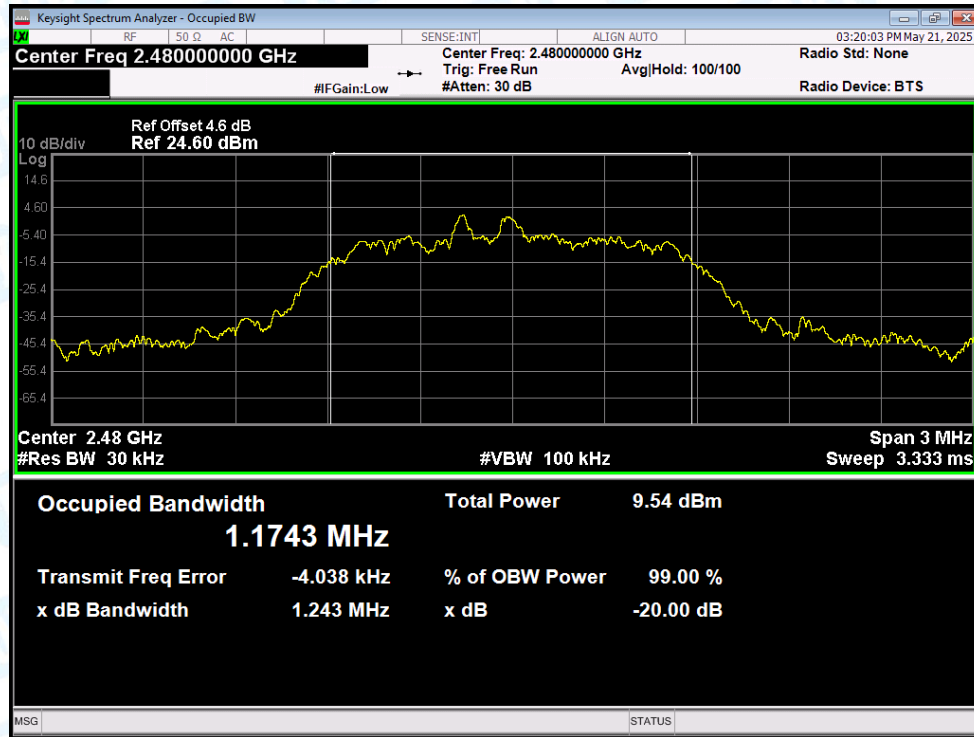
OBW NVNT 2-DH1 2402MHz Ant1



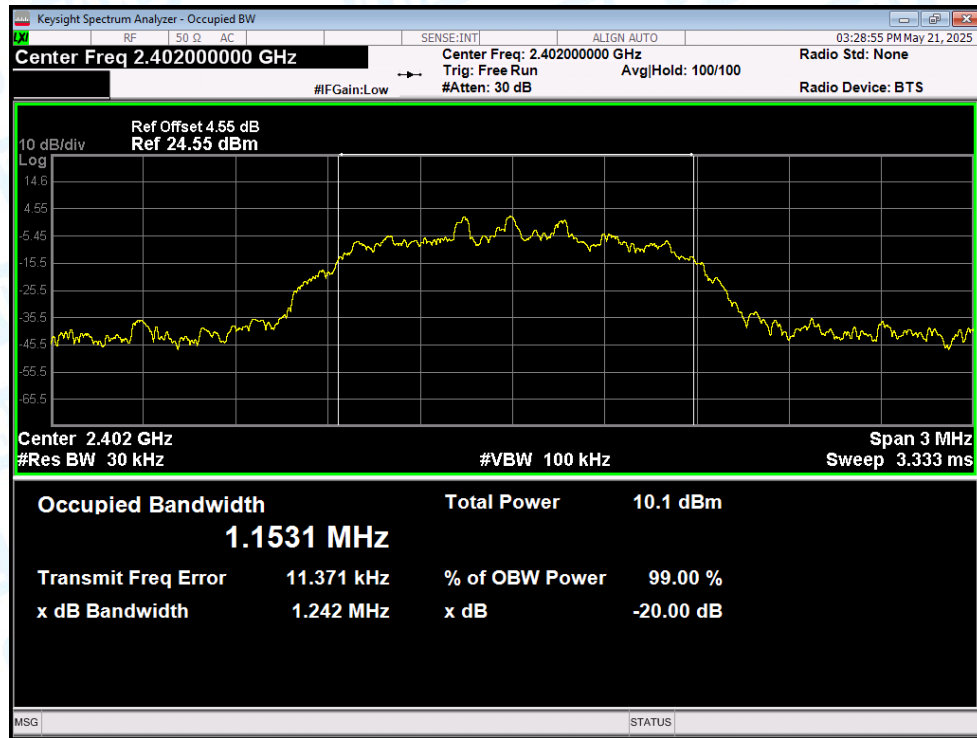
OBW NVNT 2-DH1 2441MHz Ant1



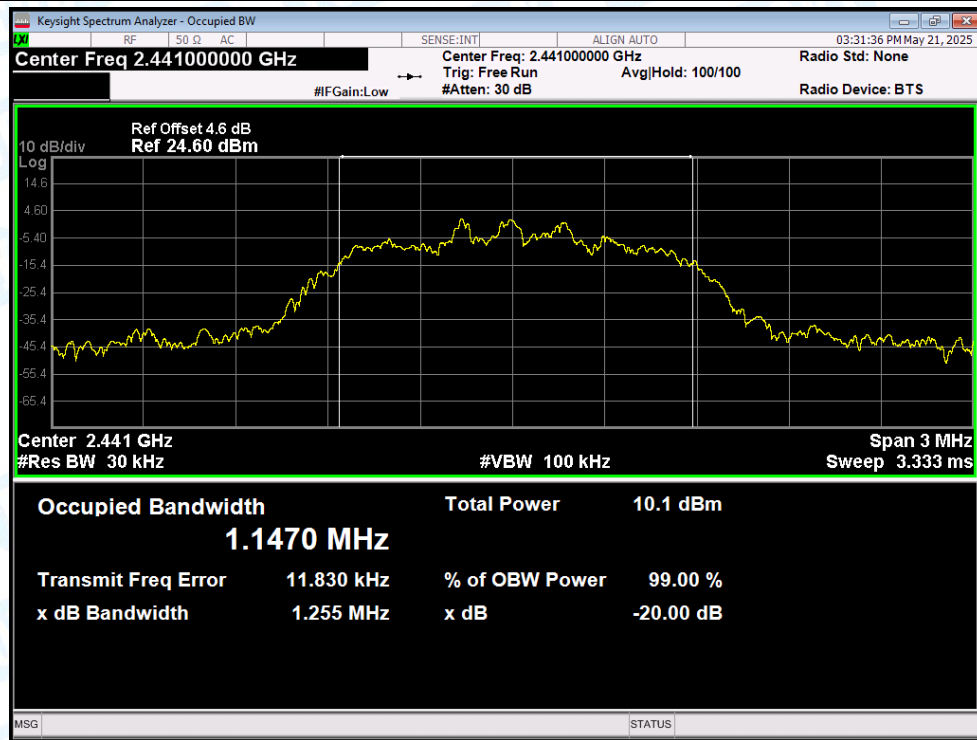
OBW NVNT 2-DH1 2480MHz Ant1

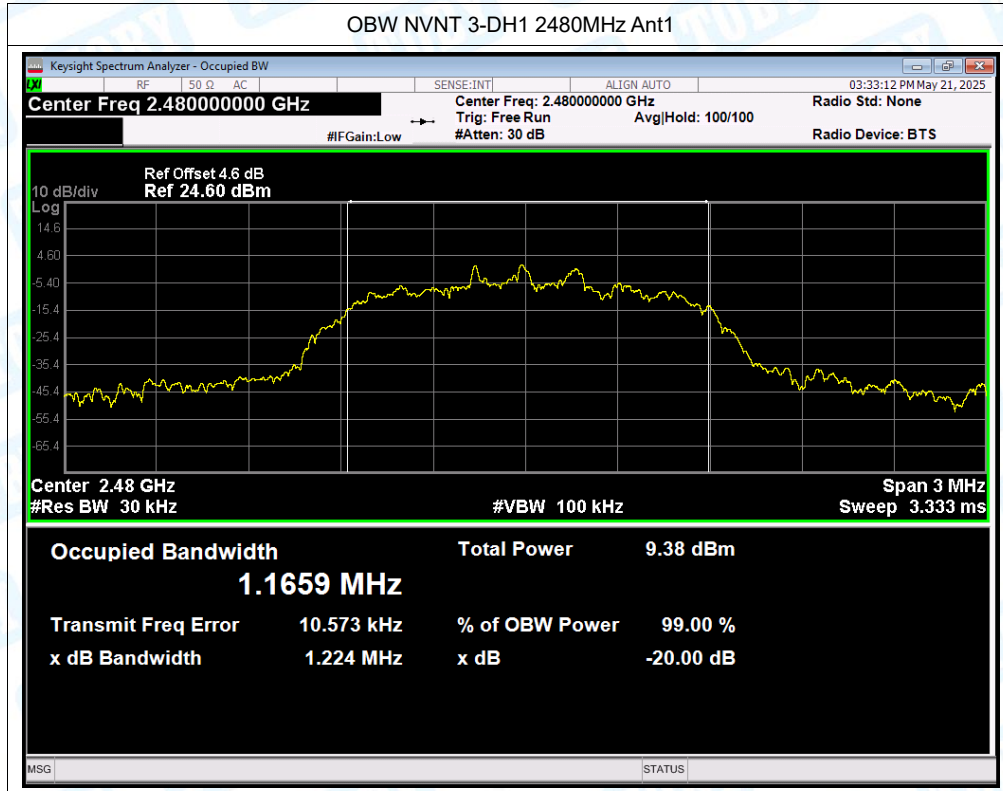


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1





5. Band Edge

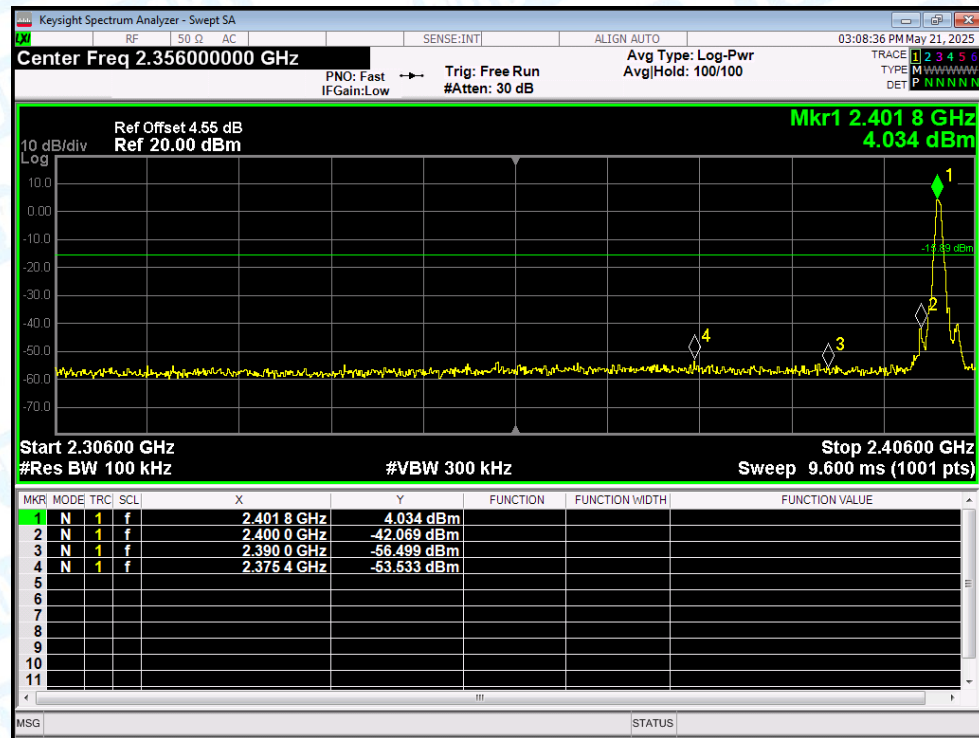
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.64	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-56.8	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-58.3	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-57.3	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-57.74	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-56.45	-20	Pass

Test Graphs

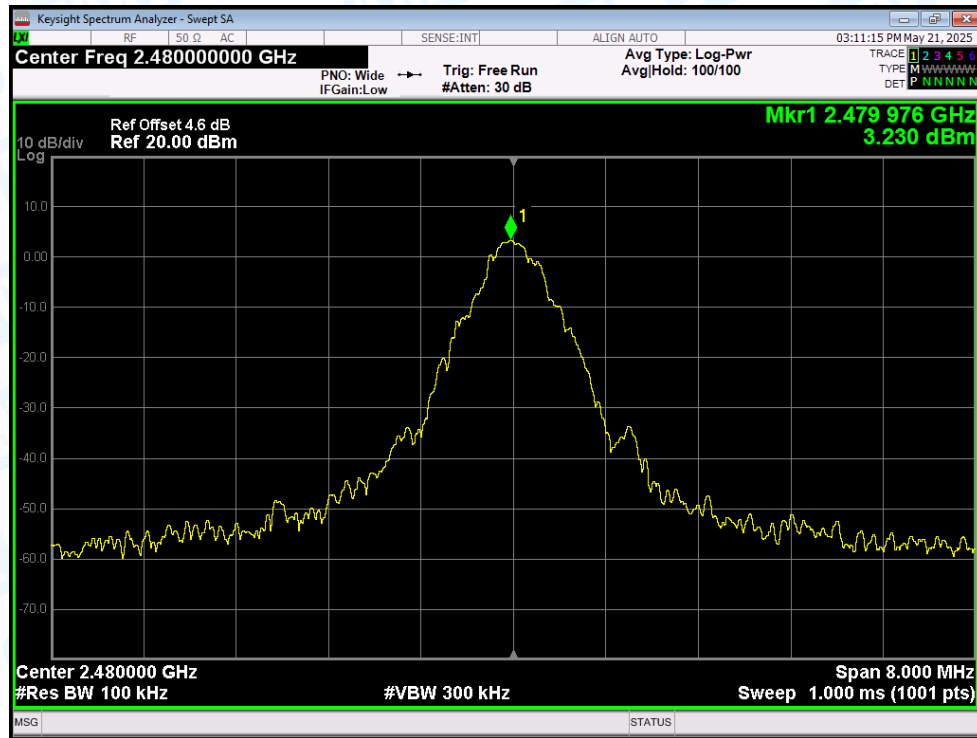
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



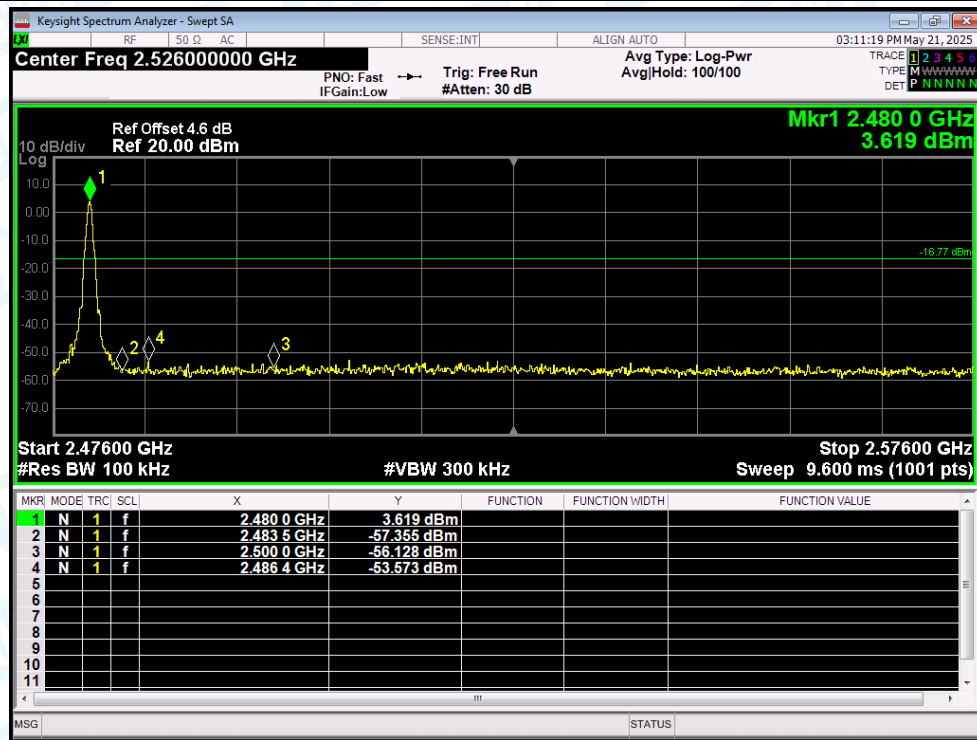
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



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



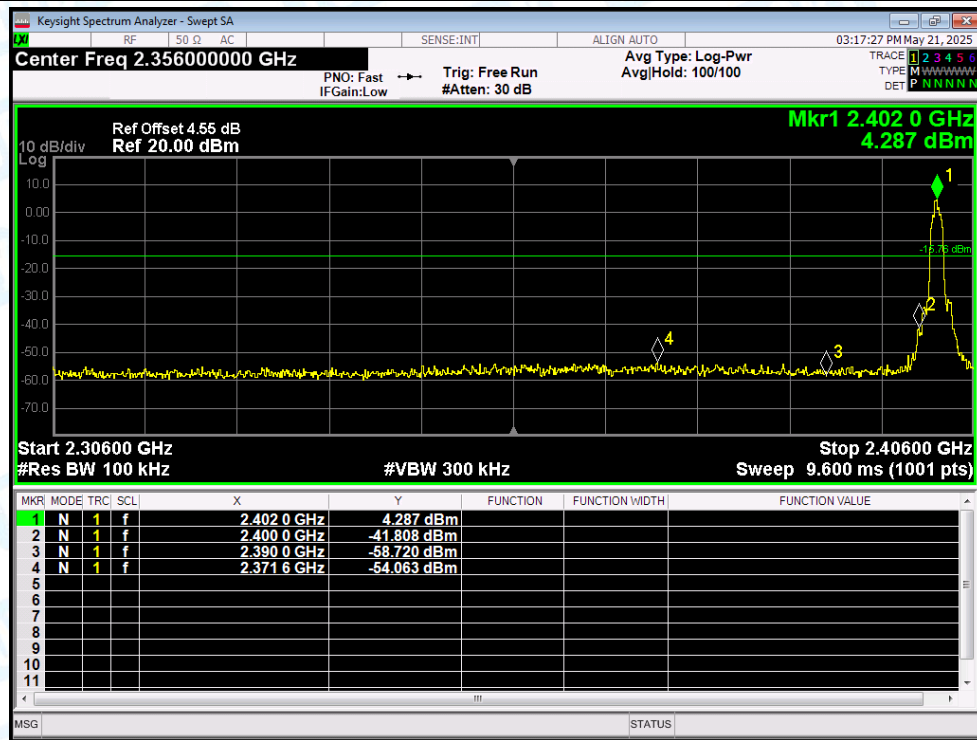
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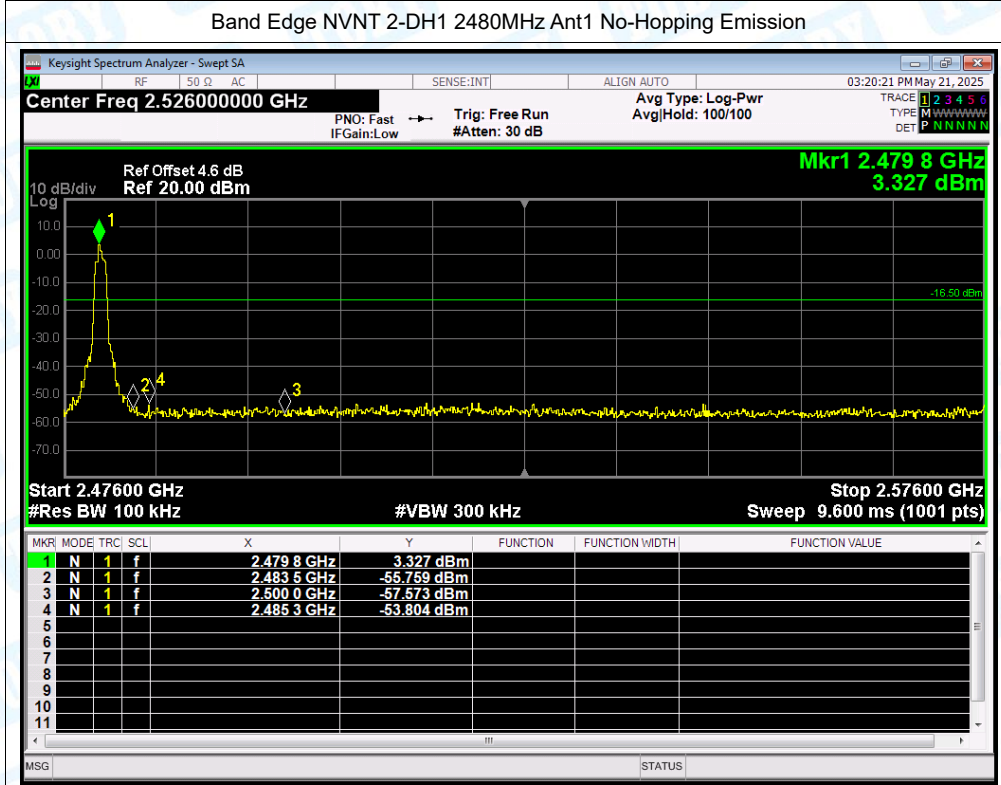
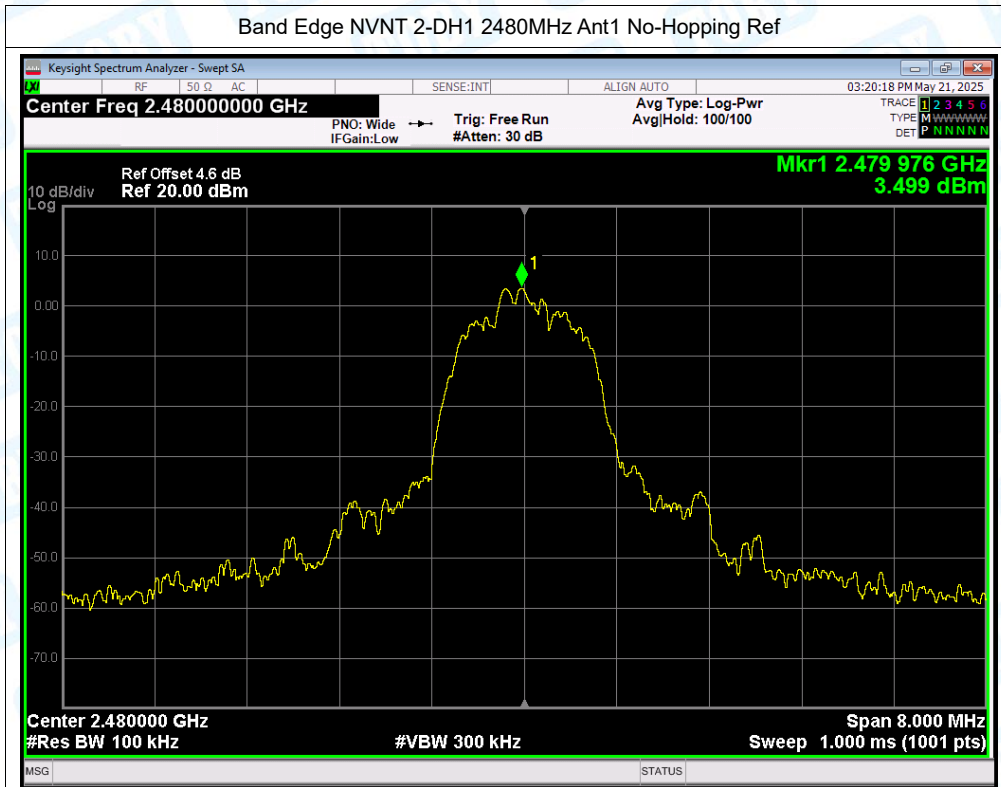


Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



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

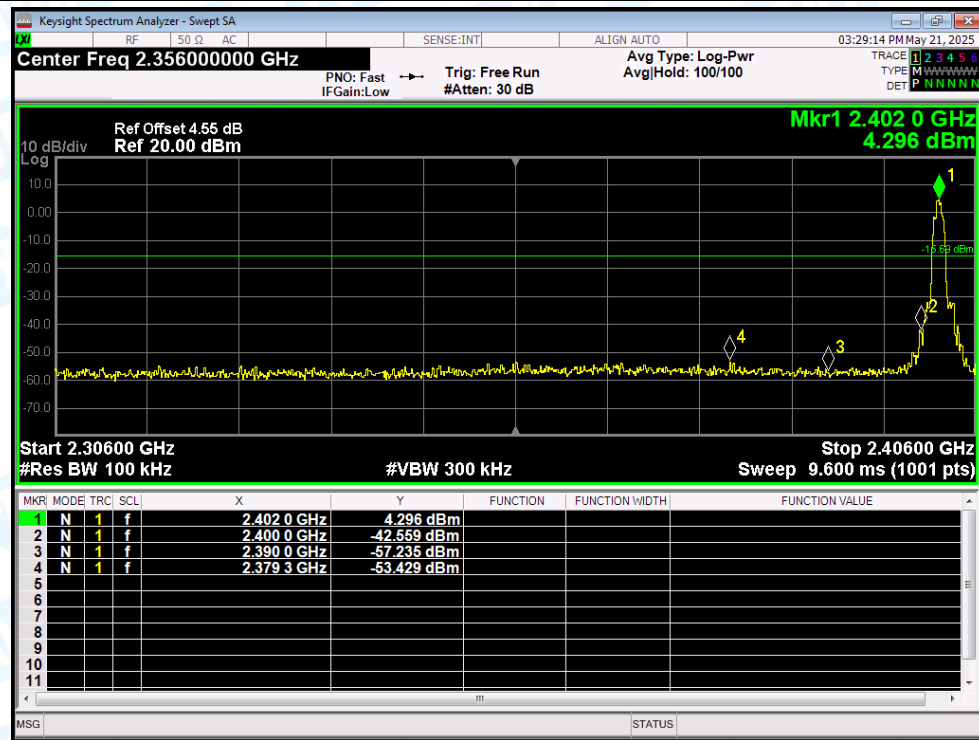




Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



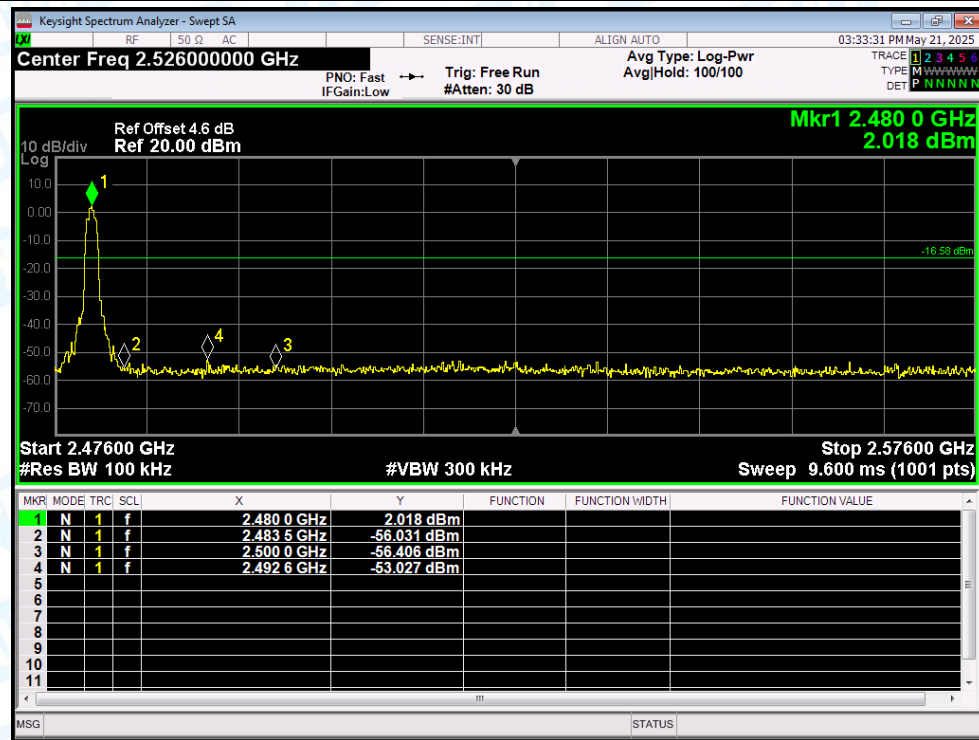
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

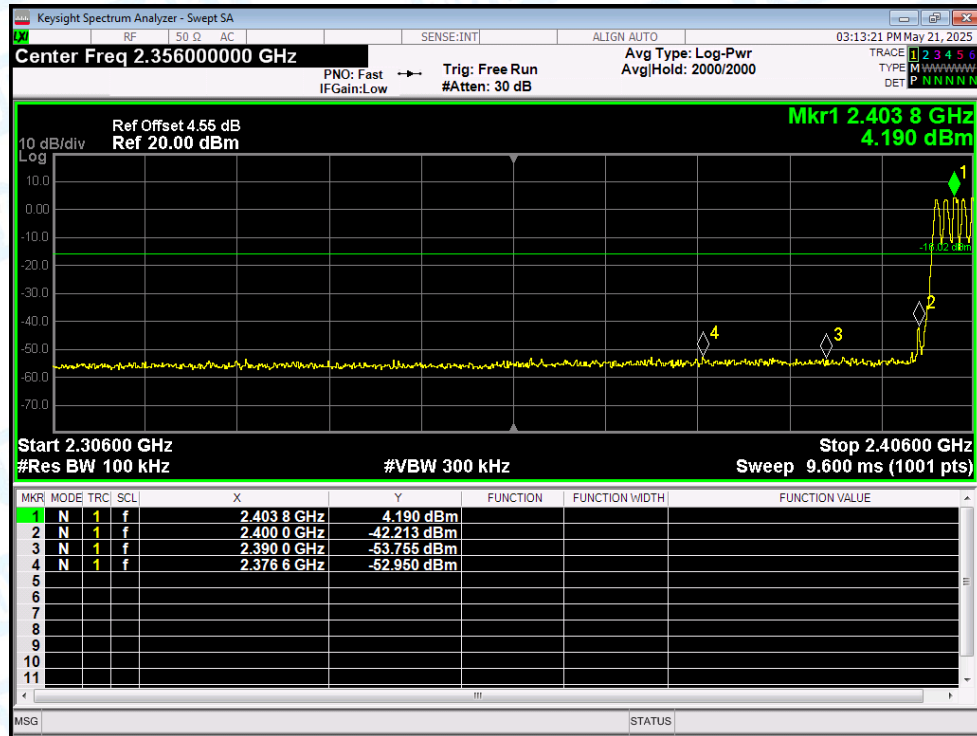
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.93	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-56.19	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-56.78	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-56.13	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-56.41	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-56.28	-20	Pass

Test Graphs

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



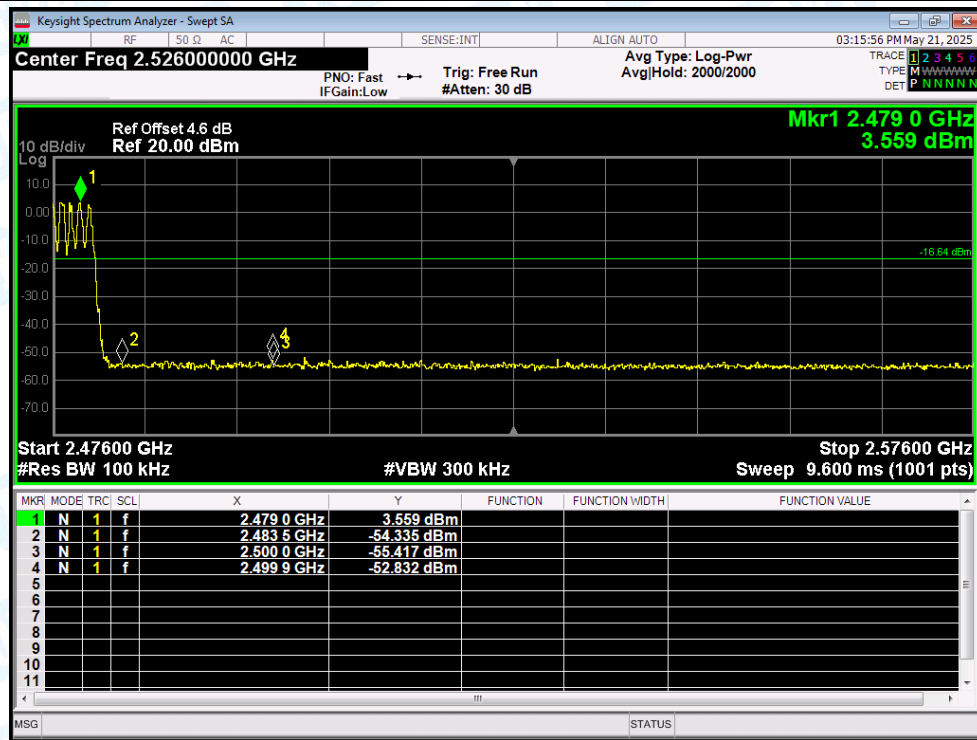
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



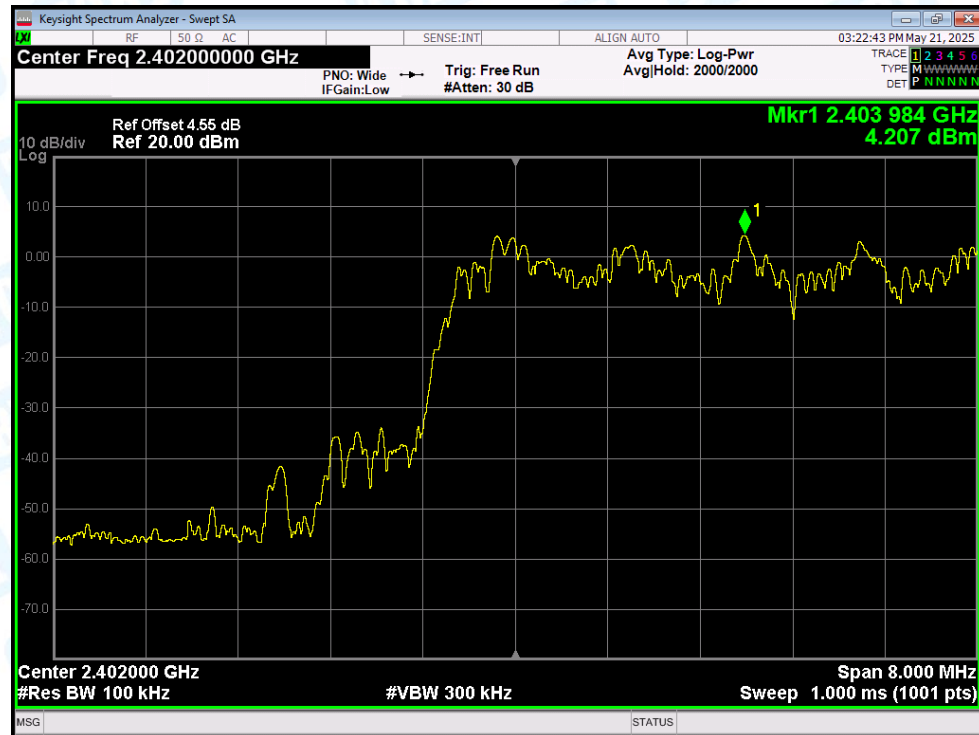
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



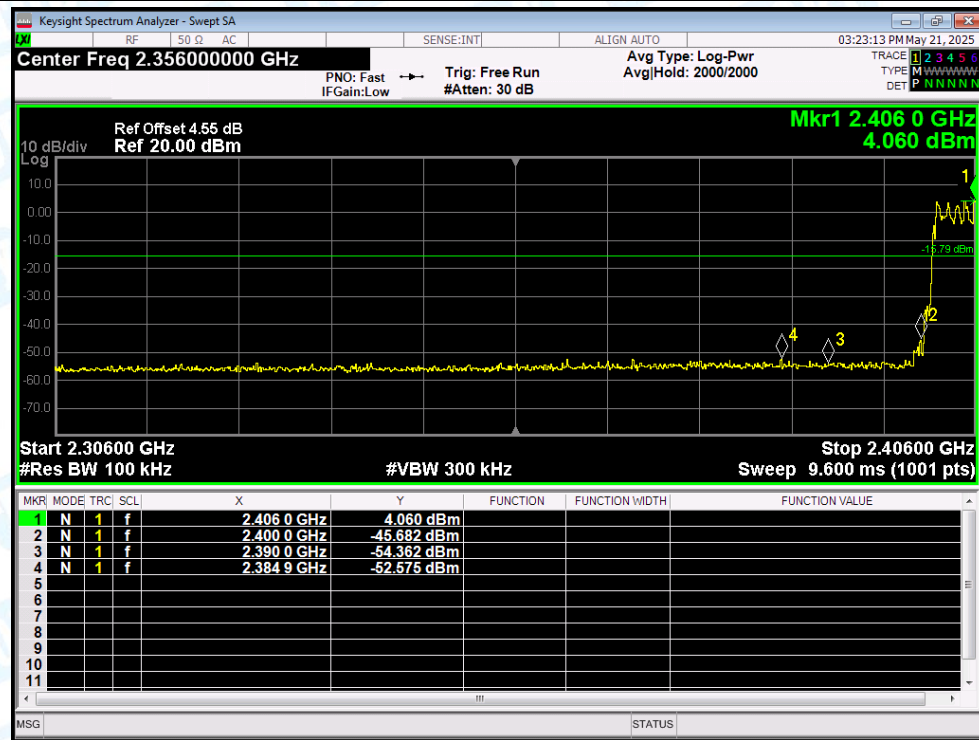
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission

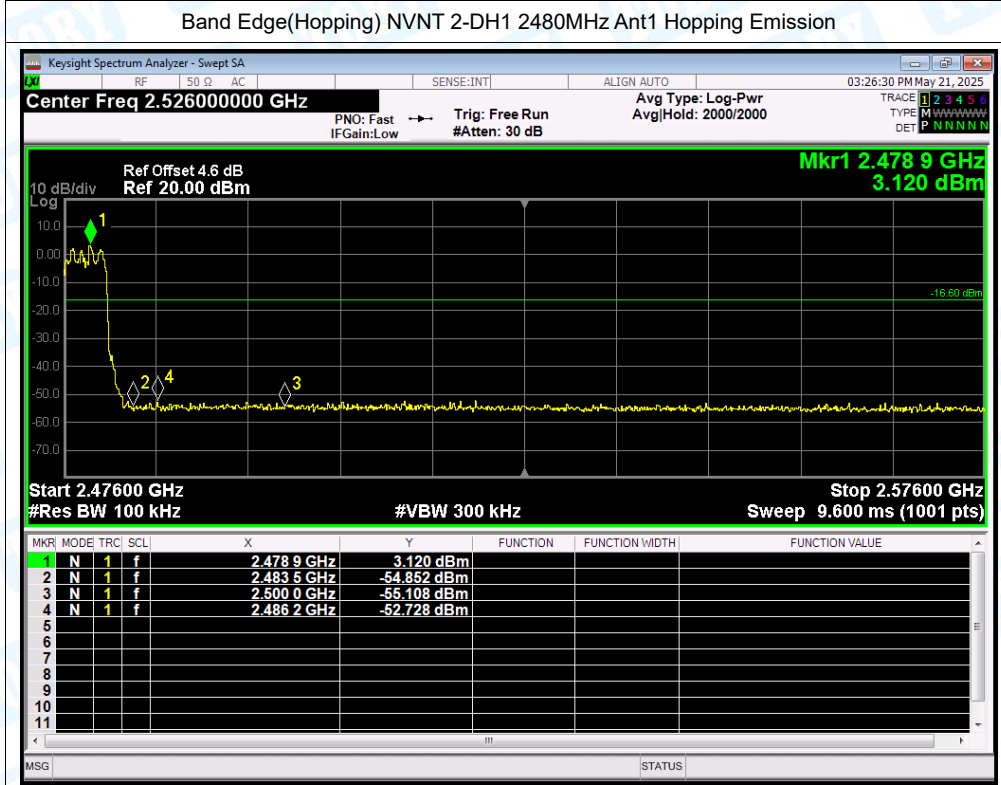
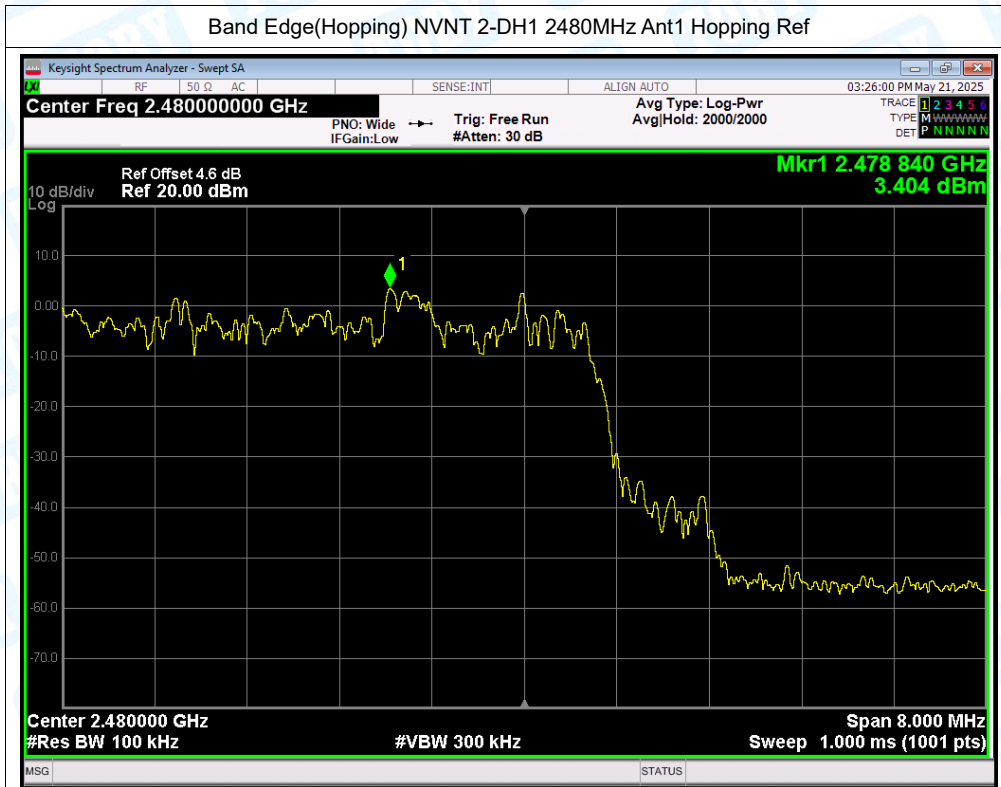


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



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

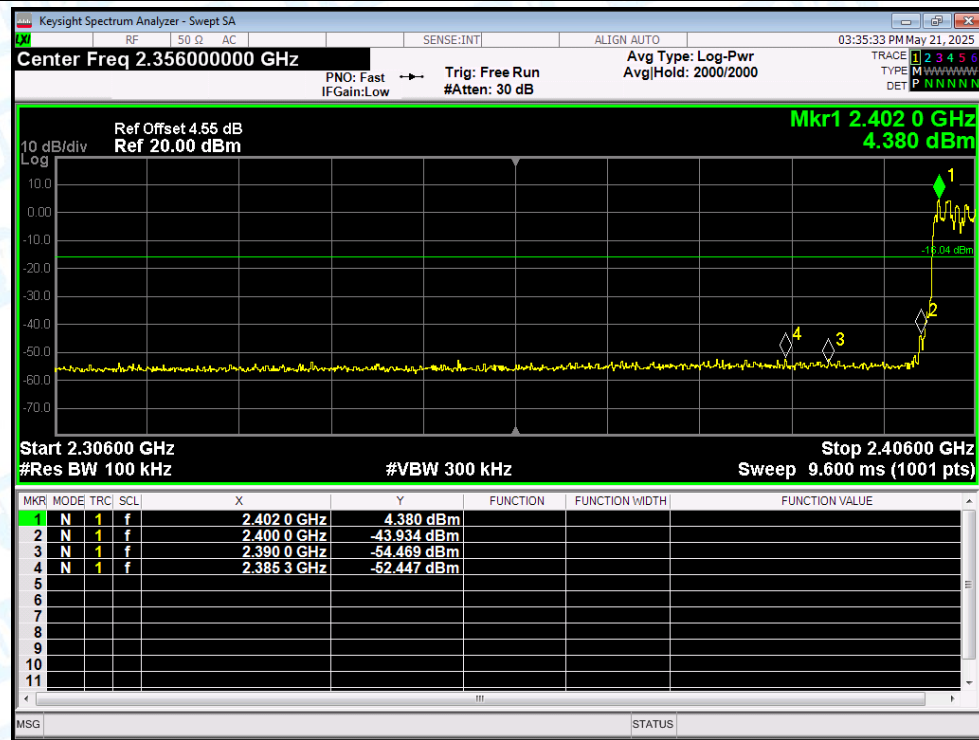




Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



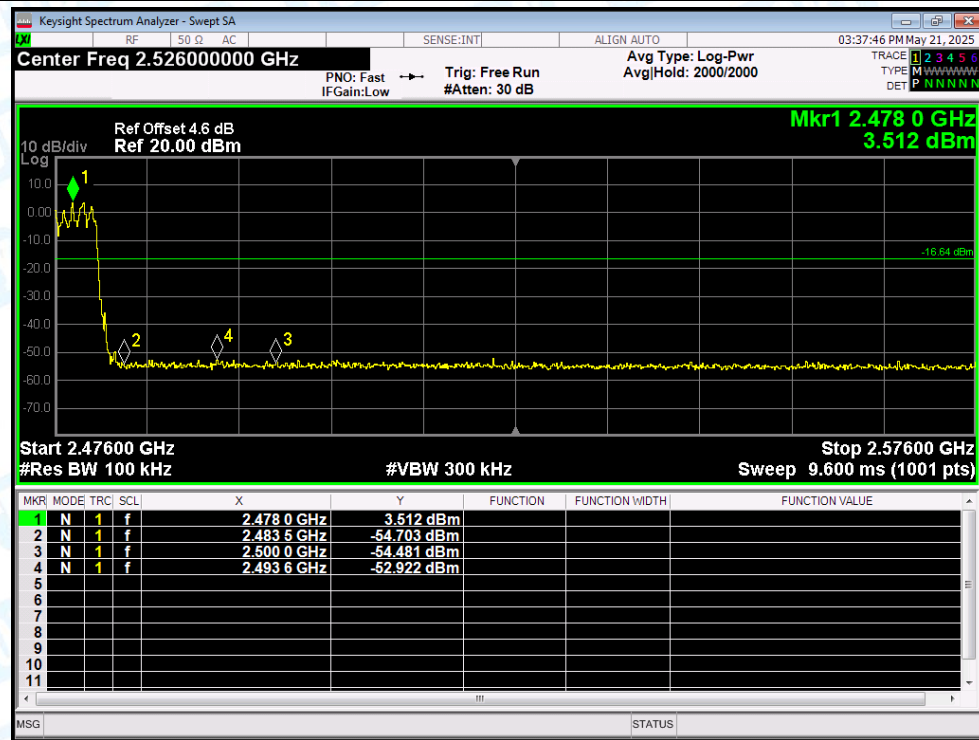
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

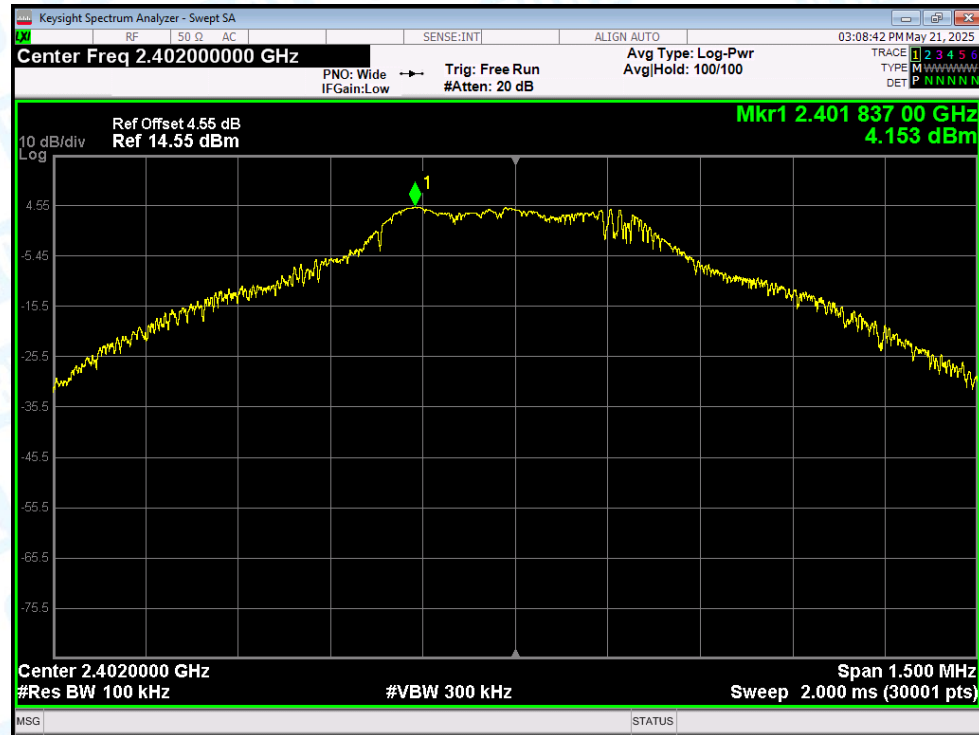


7. Conducted RF Spurious Emission

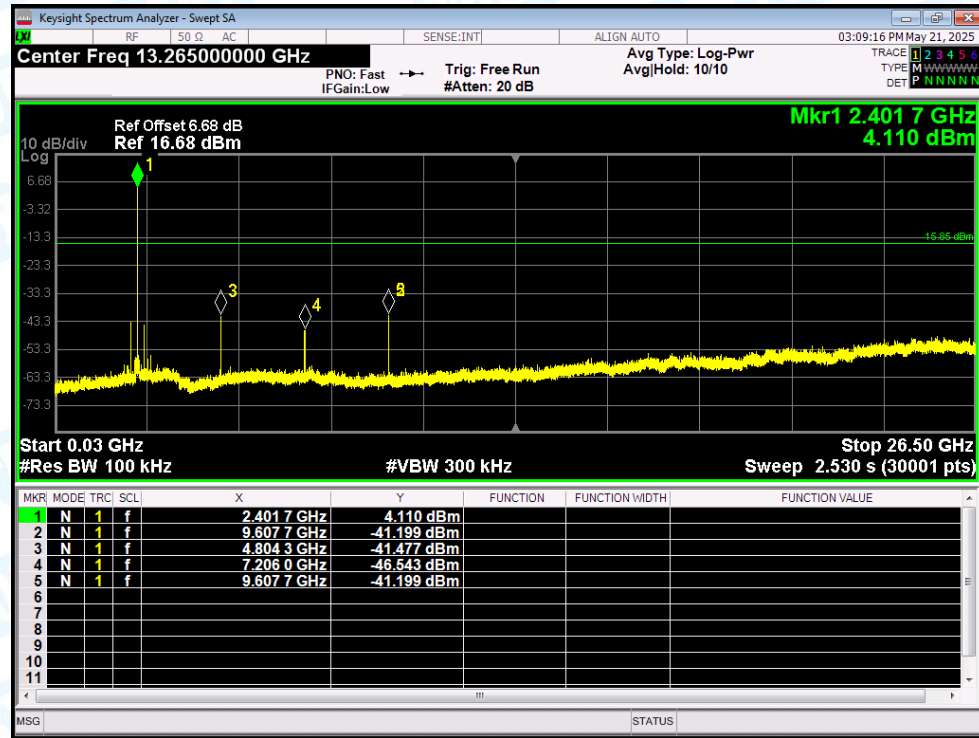
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-45.35	-20	Pass
NVNT	1-DH1	2441	Ant1	-42.52	-20	Pass
NVNT	1-DH1	2480	Ant1	-42.34	-20	Pass
NVNT	2-DH1	2402	Ant1	-44.73	-20	Pass
NVNT	2-DH1	2441	Ant1	-42.33	-20	Pass
NVNT	2-DH1	2480	Ant1	-42.49	-20	Pass
NVNT	3-DH1	2402	Ant1	-44.5	-20	Pass
NVNT	3-DH1	2441	Ant1	-45.64	-20	Pass
NVNT	3-DH1	2480	Ant1	-42.03	-20	Pass

Test Graphs

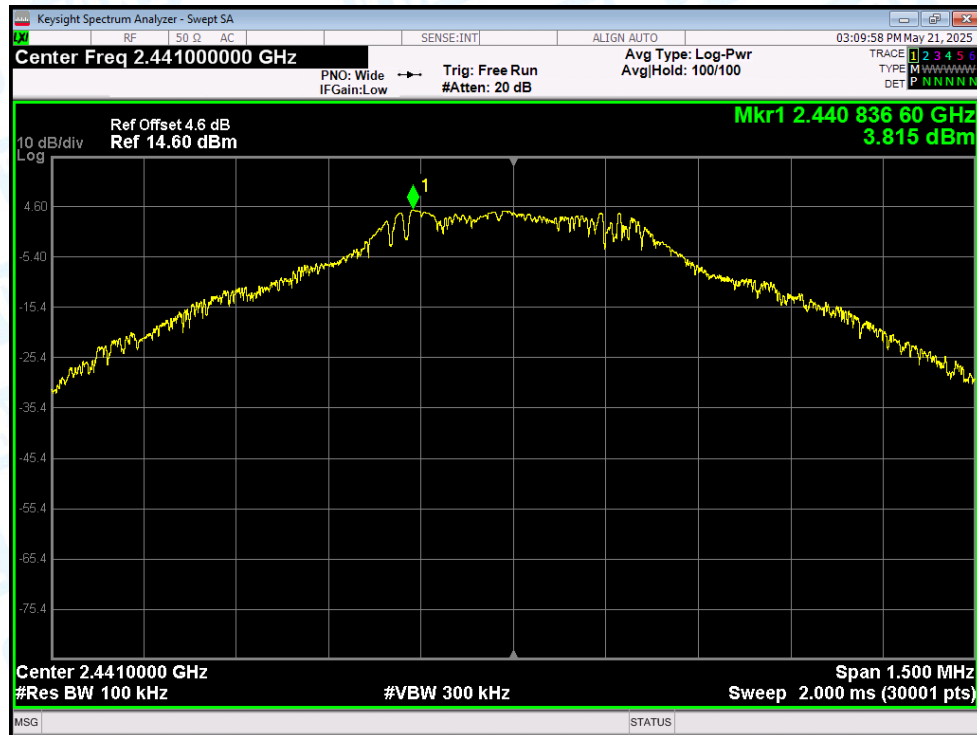
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



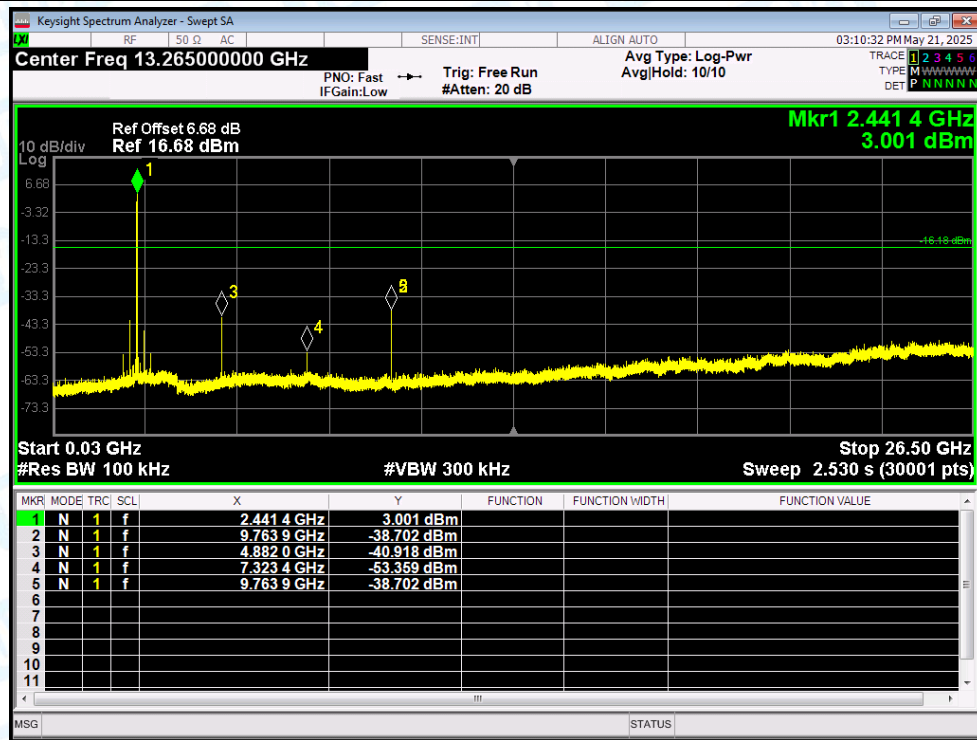
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



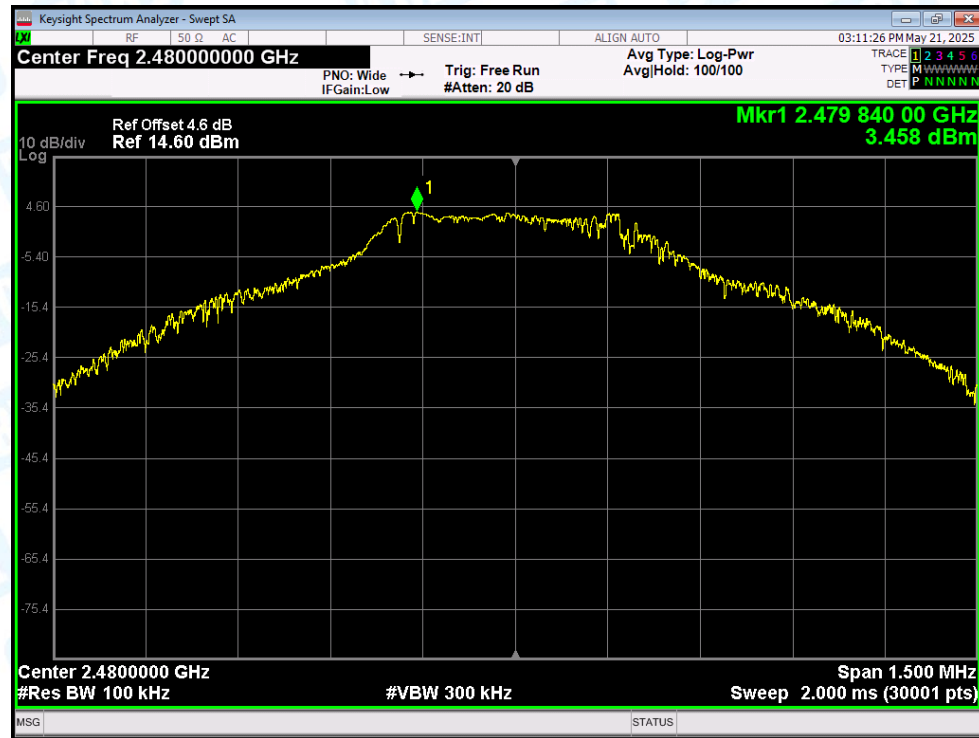
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



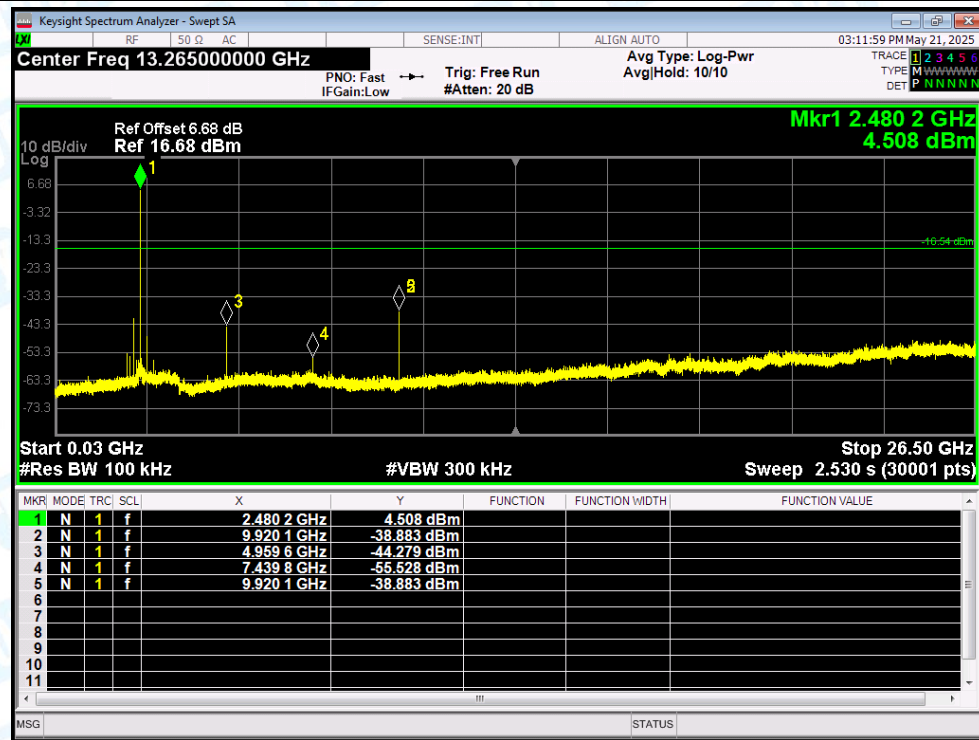
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



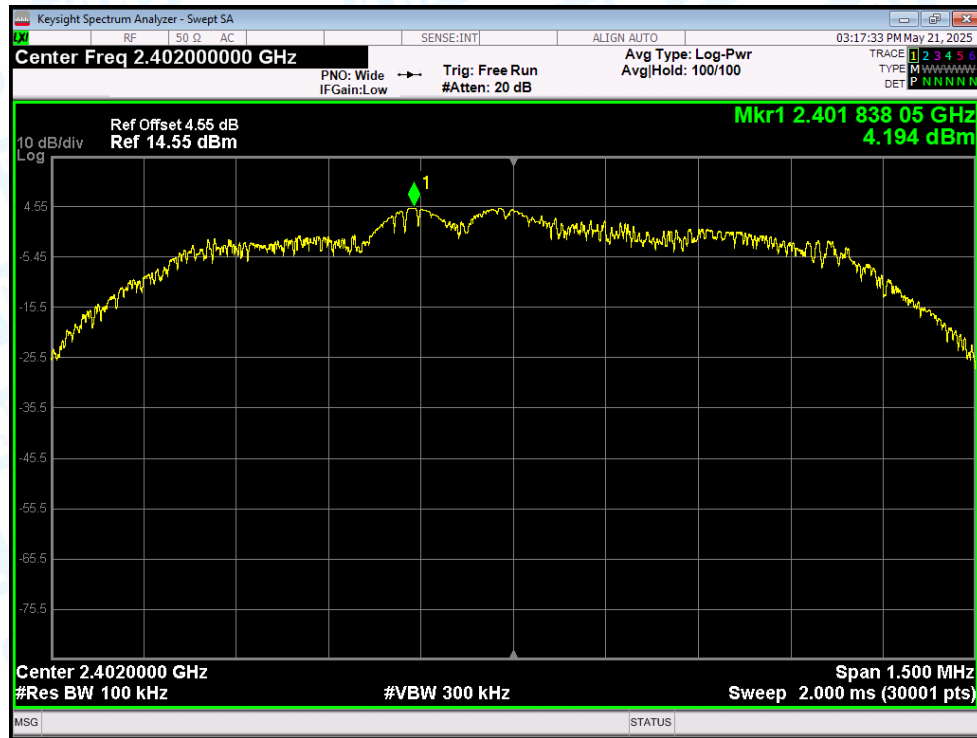
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



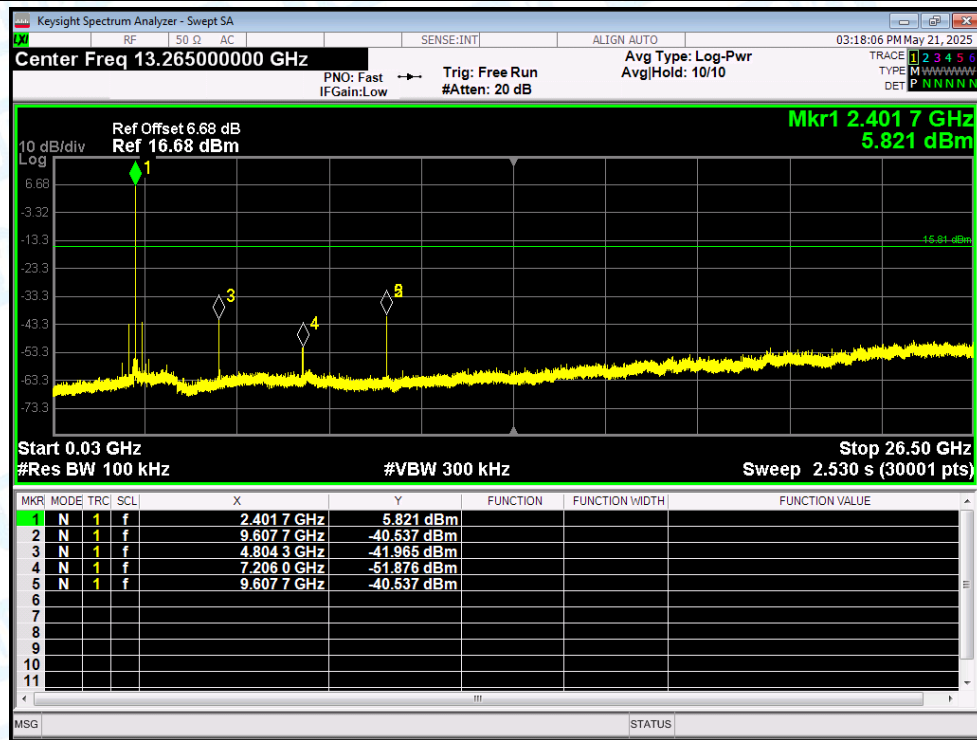
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



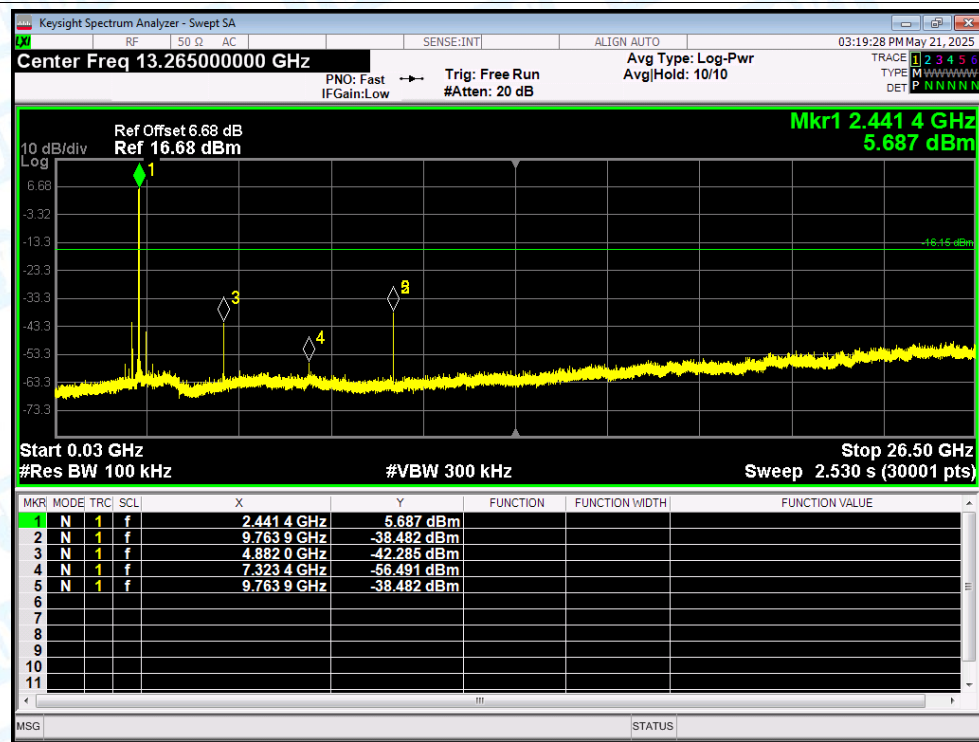
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



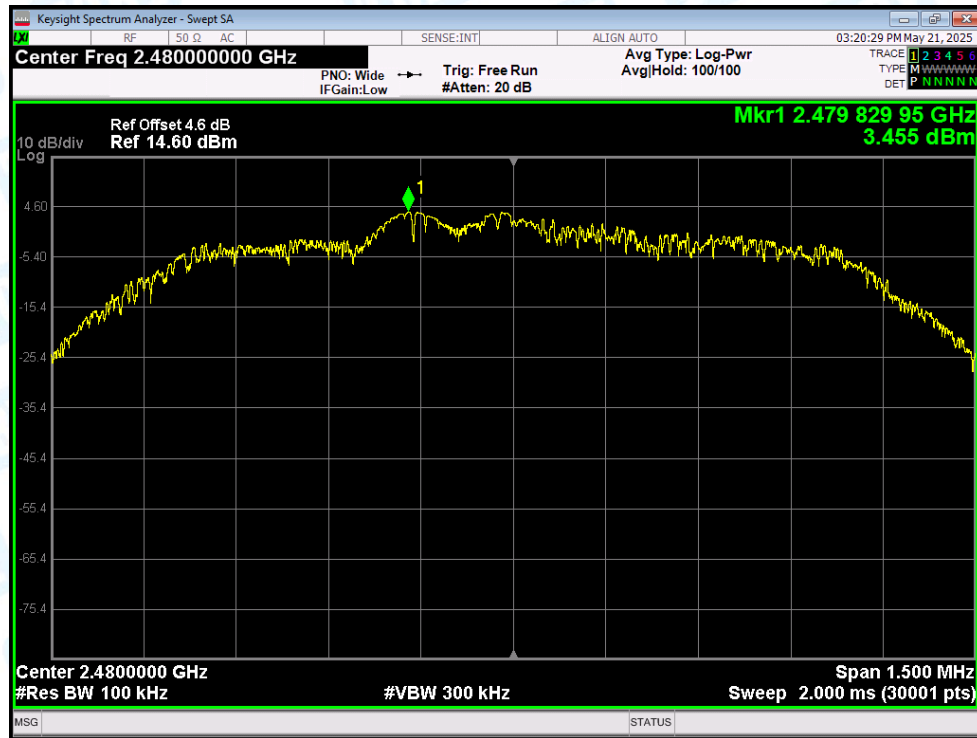
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



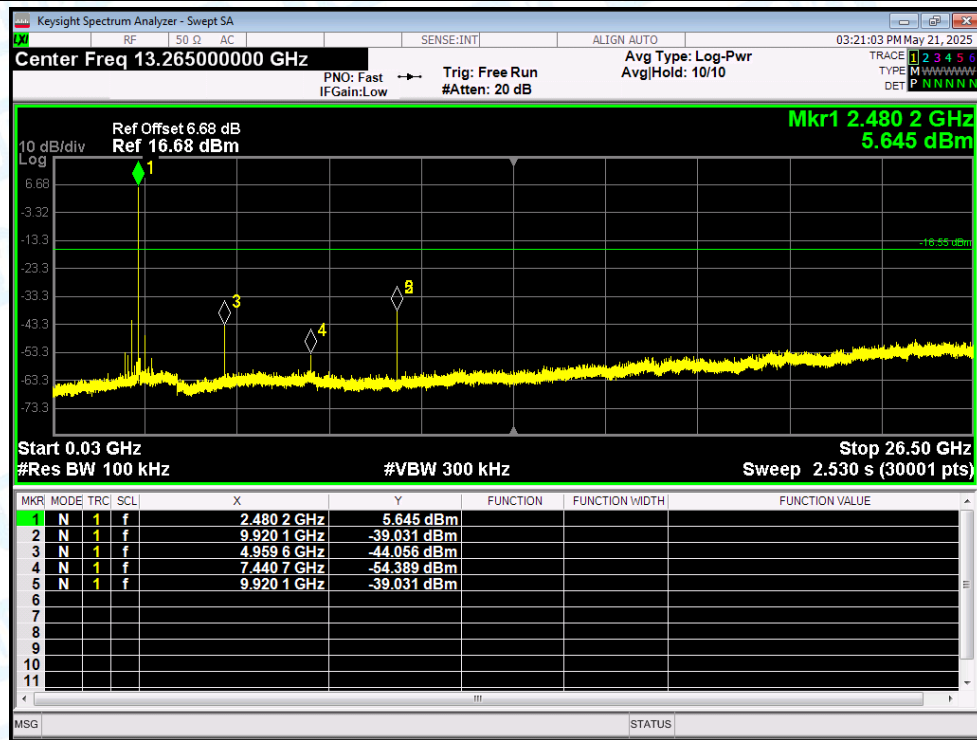
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



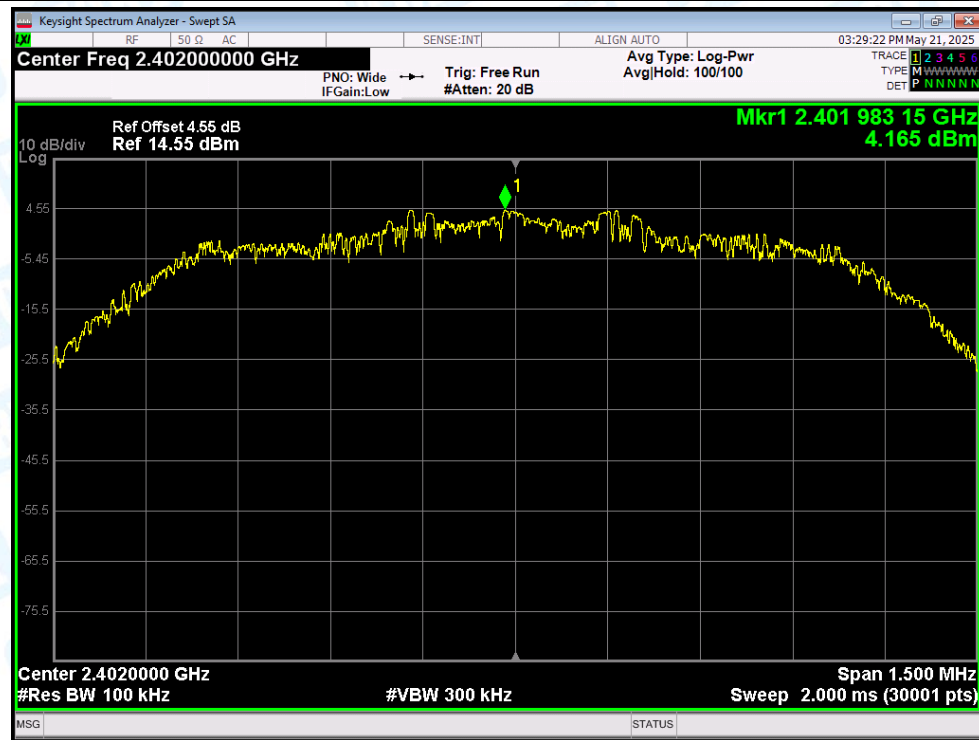
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



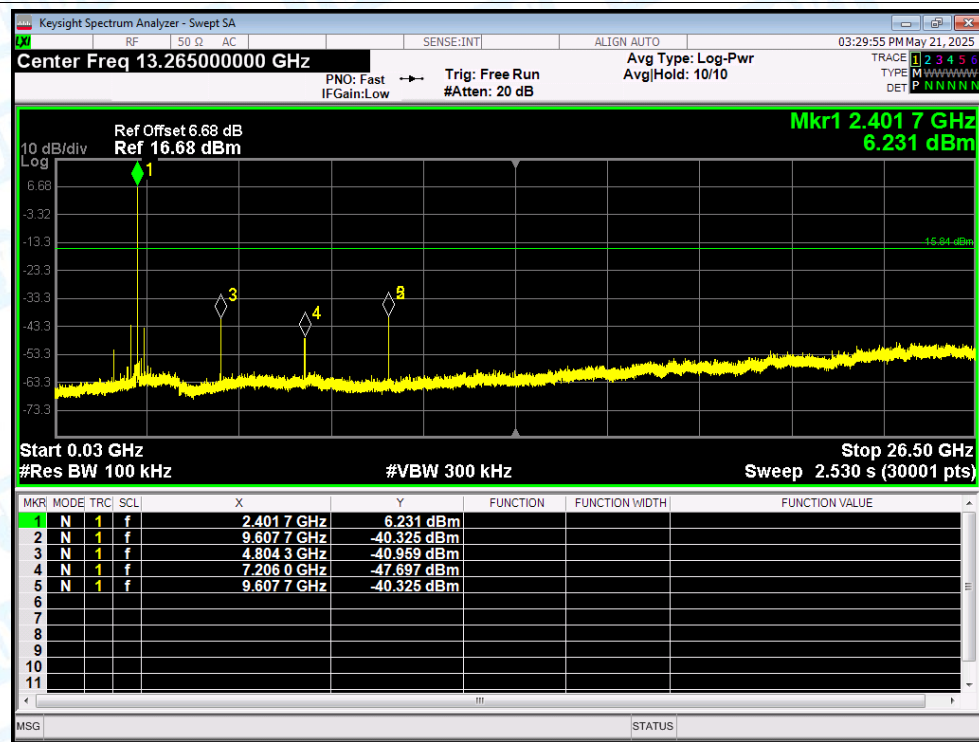
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



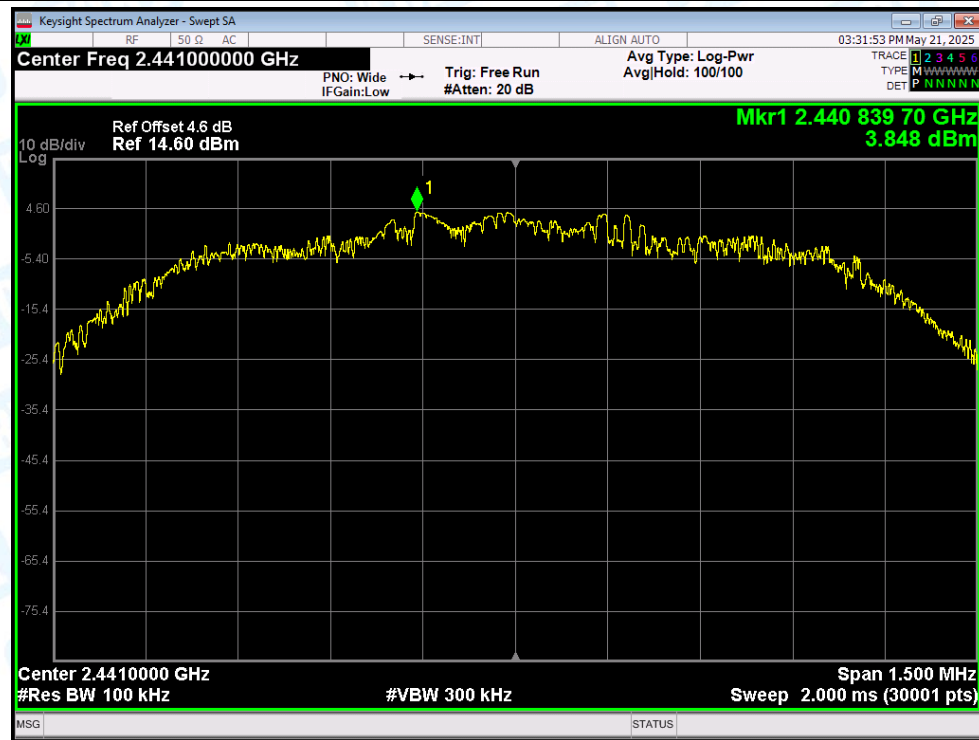
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



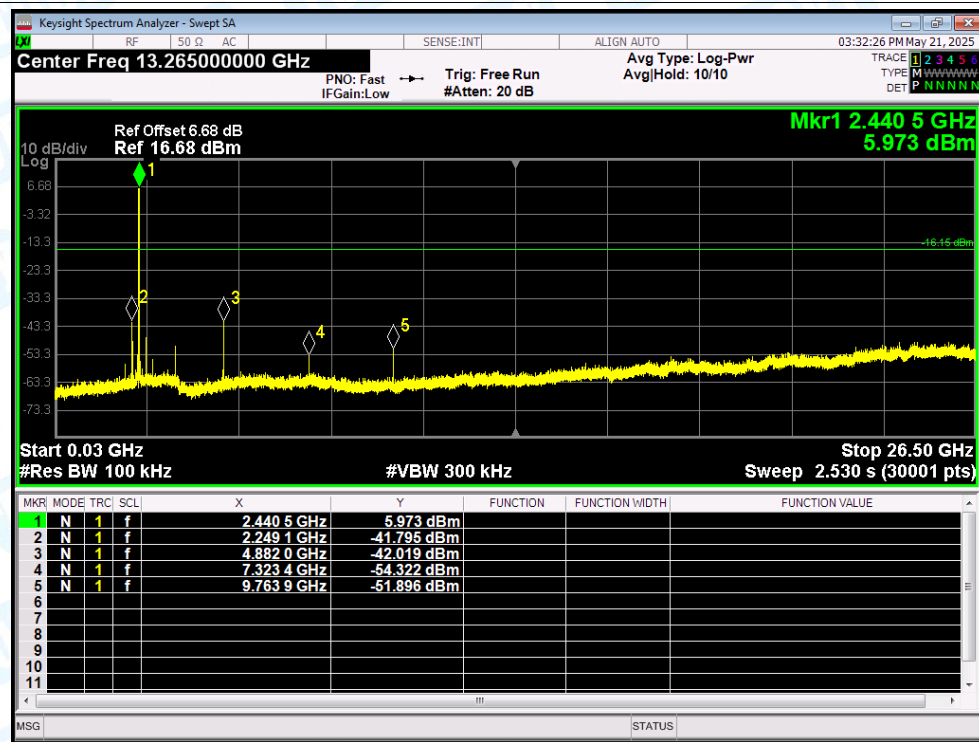
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



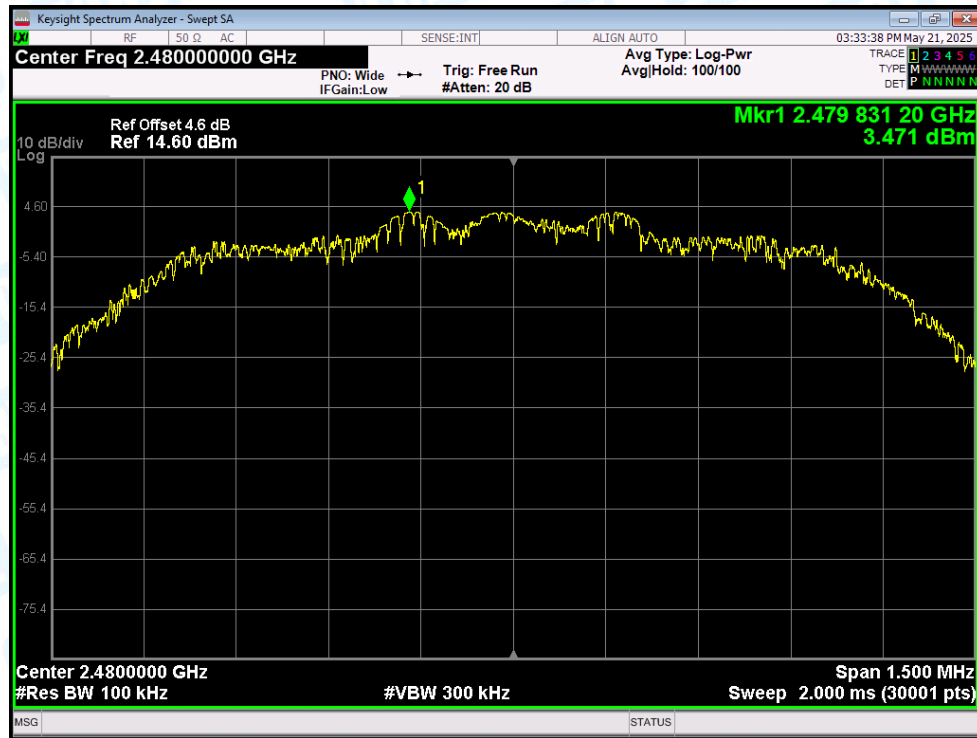
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



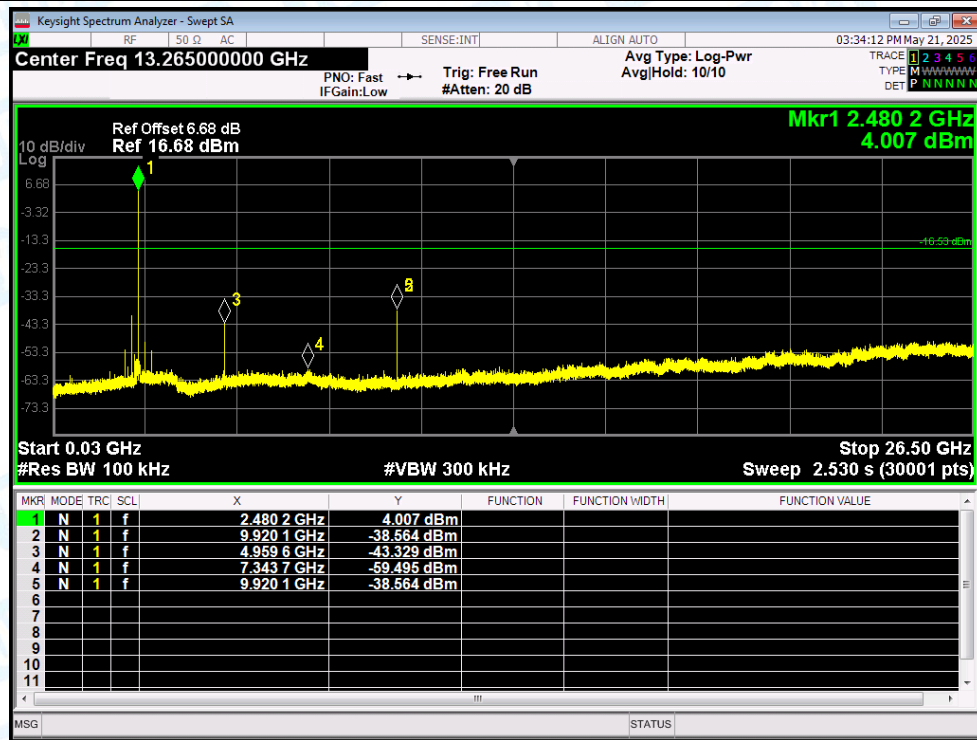
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

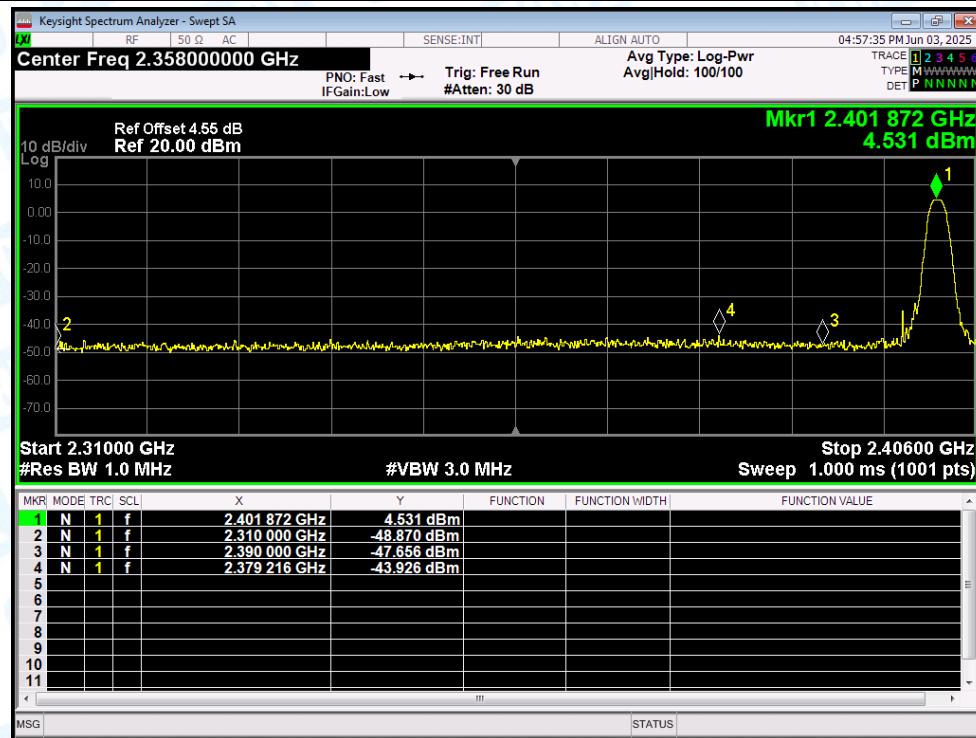


8. Restrict Band

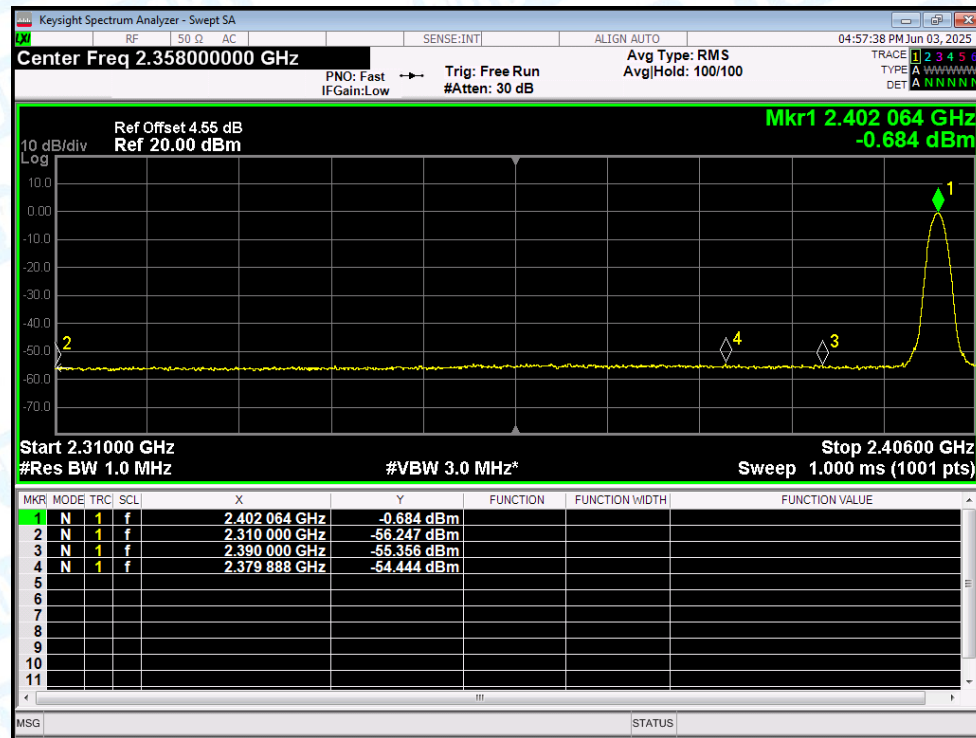
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.87	2	-	48.39	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.25	2	5.06	46.07	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2379.216	-43.93	2	-	53.33	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2379.888	-54.44	2	5.06	47.88	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.66	2	-	49.6	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.36	2	5.06	46.96	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.01	2	-	51.25	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.86	2	5.06	47.46	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.792	-37.98	2	-	59.28	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.632	-54.32	2	5.06	48	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.64	2	-	49.62	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.1	2	5.06	47.22	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.78	2	-	48.48	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.24	2	4.95	45.97	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2369.424	-42.57	2	-	54.69	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2371.632	-54.41	2	4.95	47.8	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.24	2	-	50.02	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.55	2	4.95	46.66	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-46.23	2	-	51.03	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.25	2	4.95	46.96	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.632	-40.5	2	-	56.76	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2486.368	-54.42	2	4.95	47.79	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-46.77	2	-	50.49	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.55	2	4.95	46.66	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-47.57	2	-	49.69	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.34	2	4.95	45.87	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2364.048	-43.59	2	-	53.67	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2371.92	-54.3	2	4.95	47.91	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-46.15	2	-	51.11	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.49	2	4.95	45.72	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-46.34	2	-	50.92	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.08	2	5.02	47.2	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2486.152	-40.81	2	-	56.45	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.944	-54.35	2	5.02	47.93	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.11	2	-	50.15	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.48	2	5.02	46.8	Average	54	Pass

Test Graphs

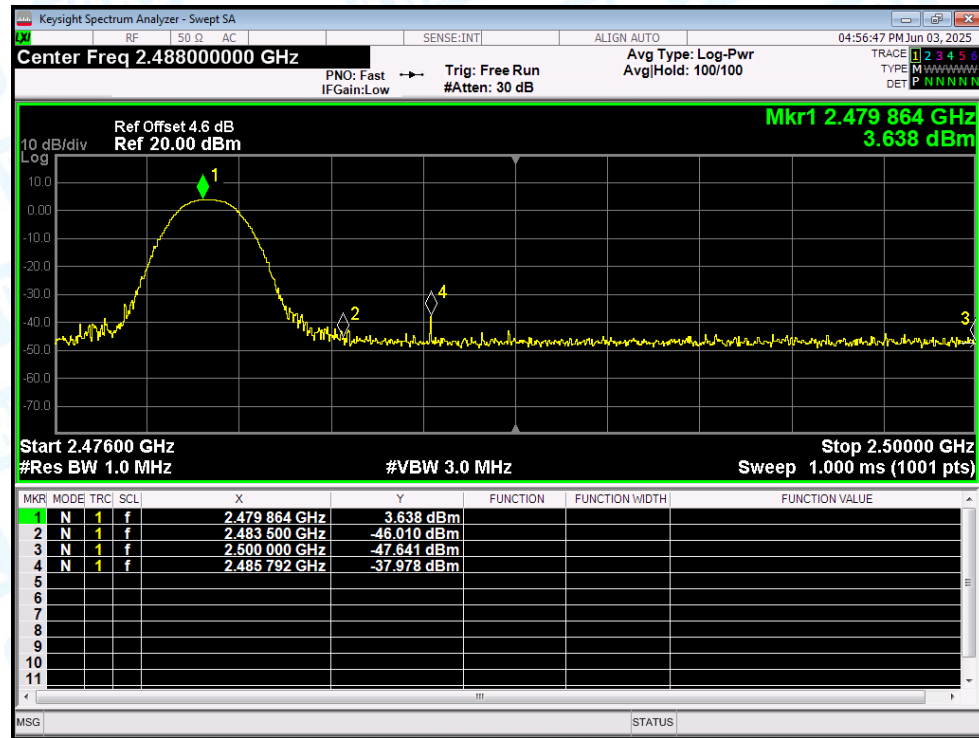
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



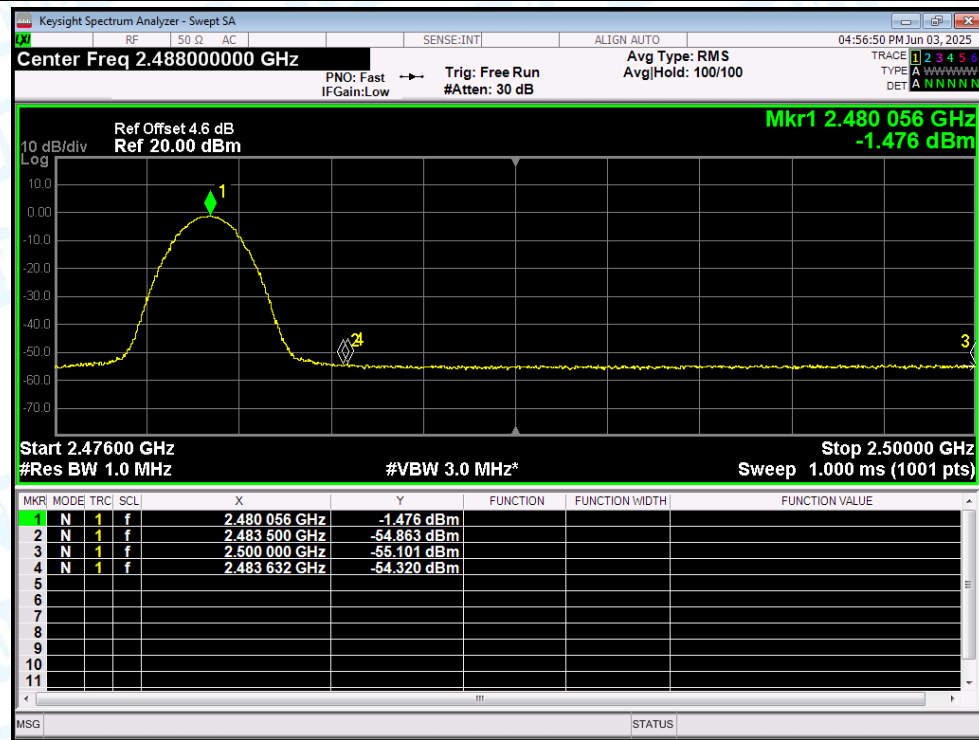
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



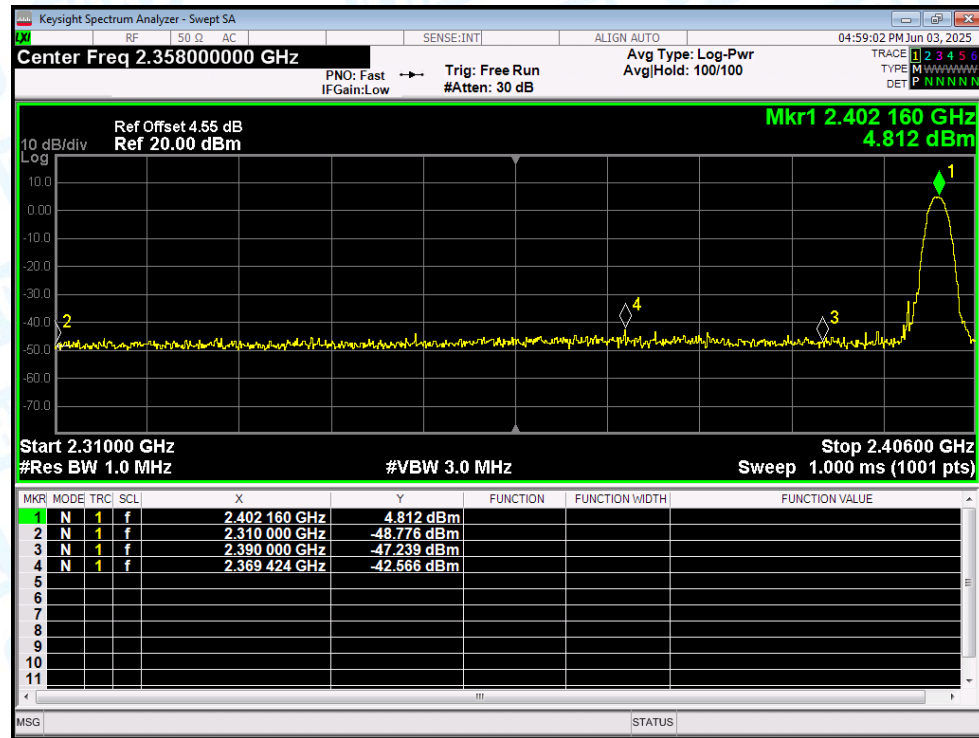
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



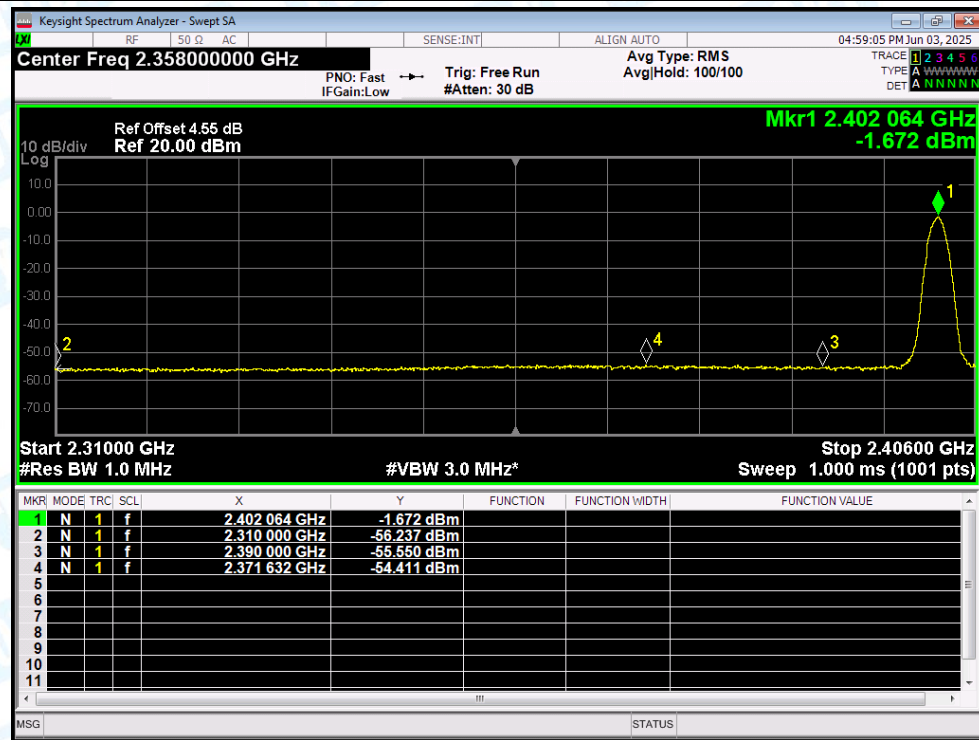
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



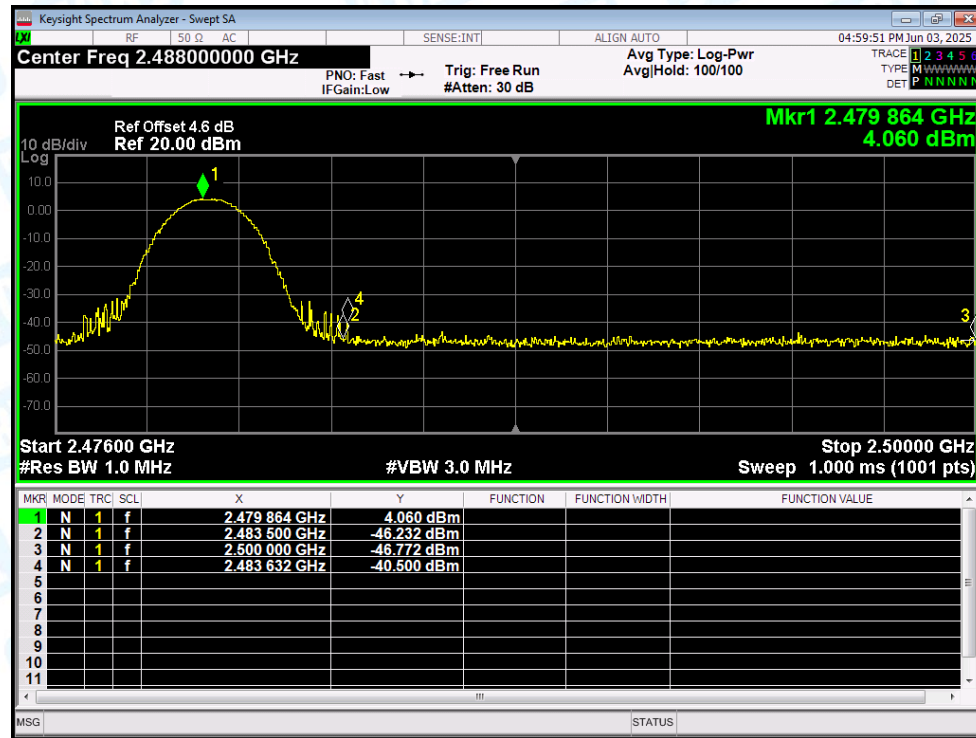
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



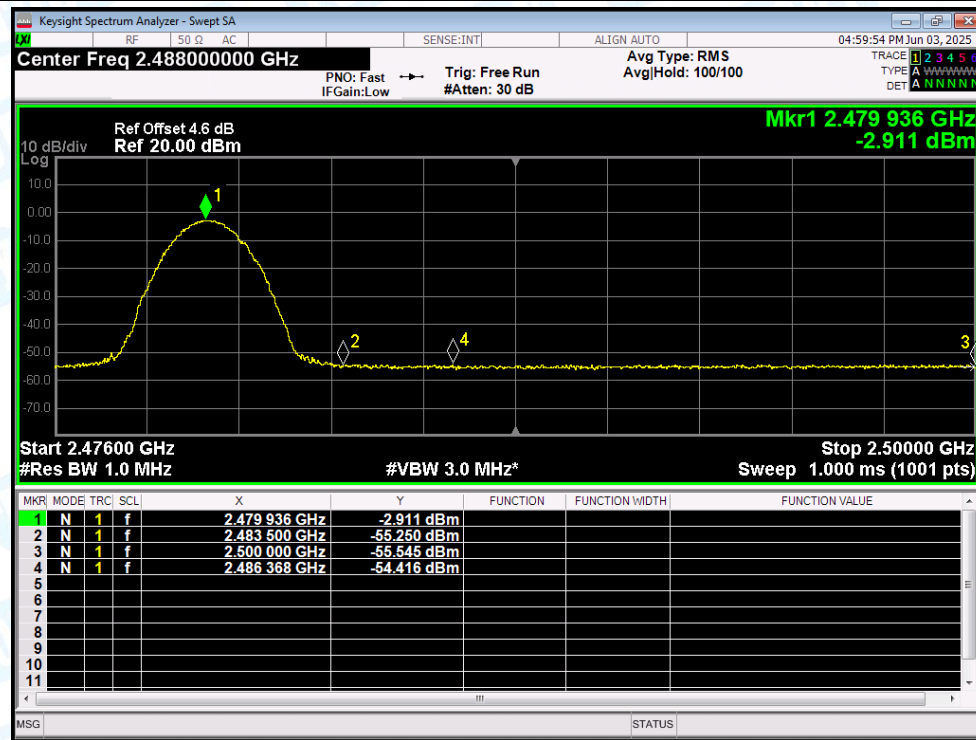
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



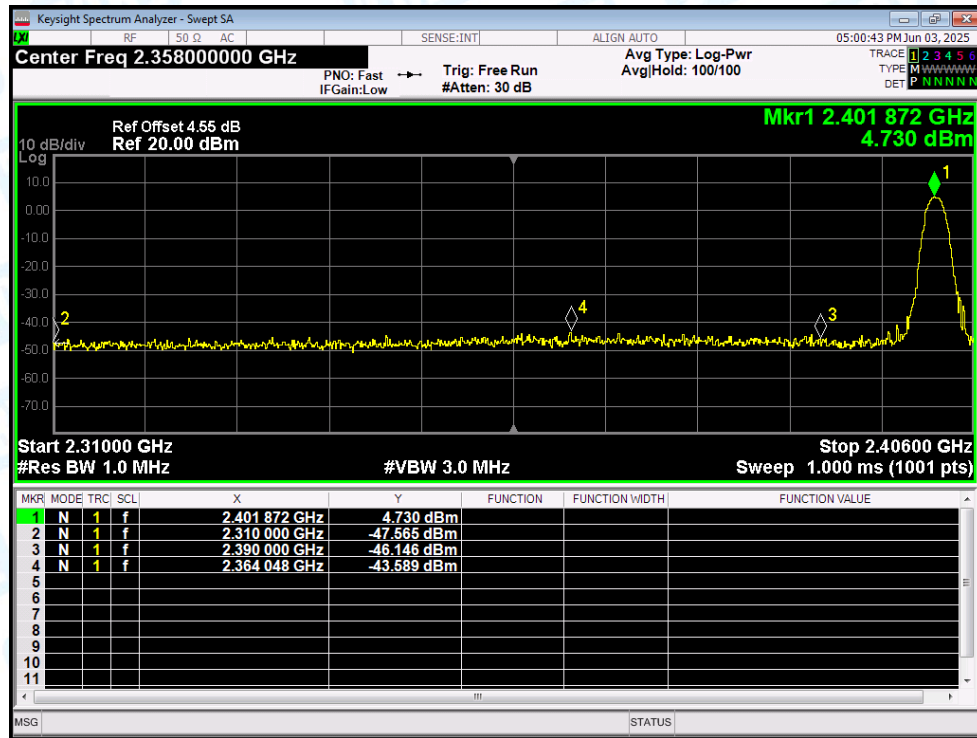
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



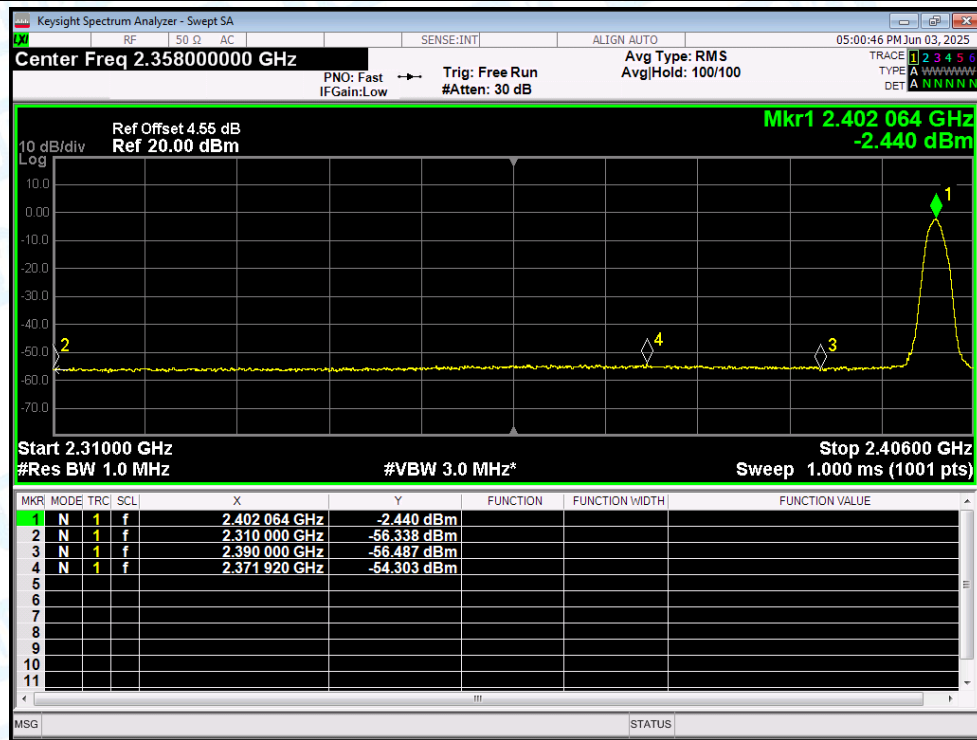
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



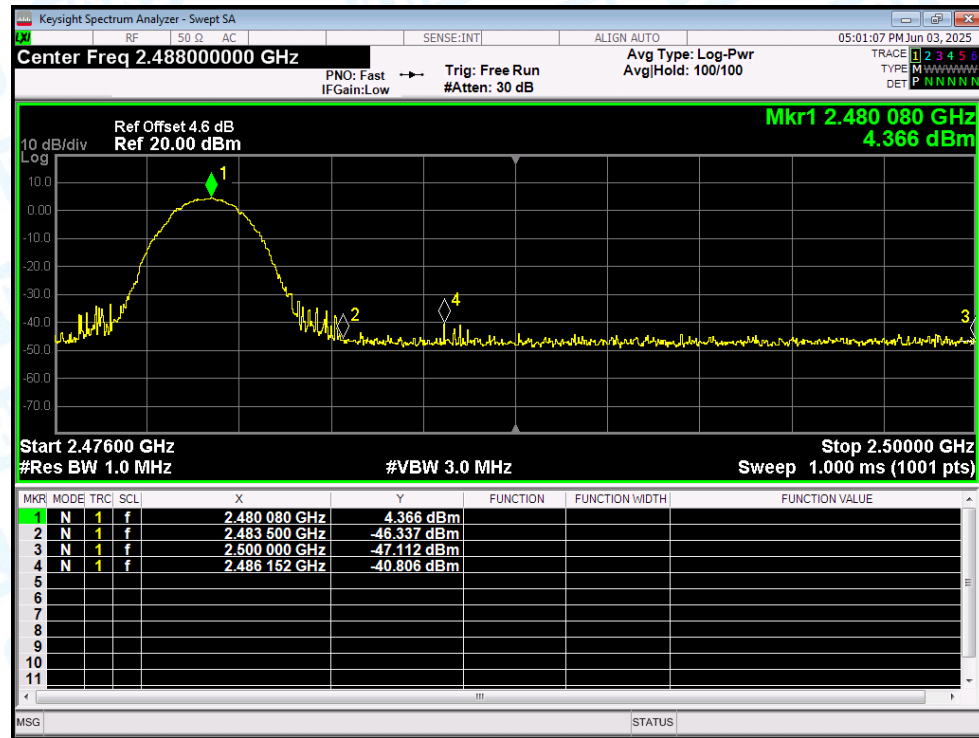
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



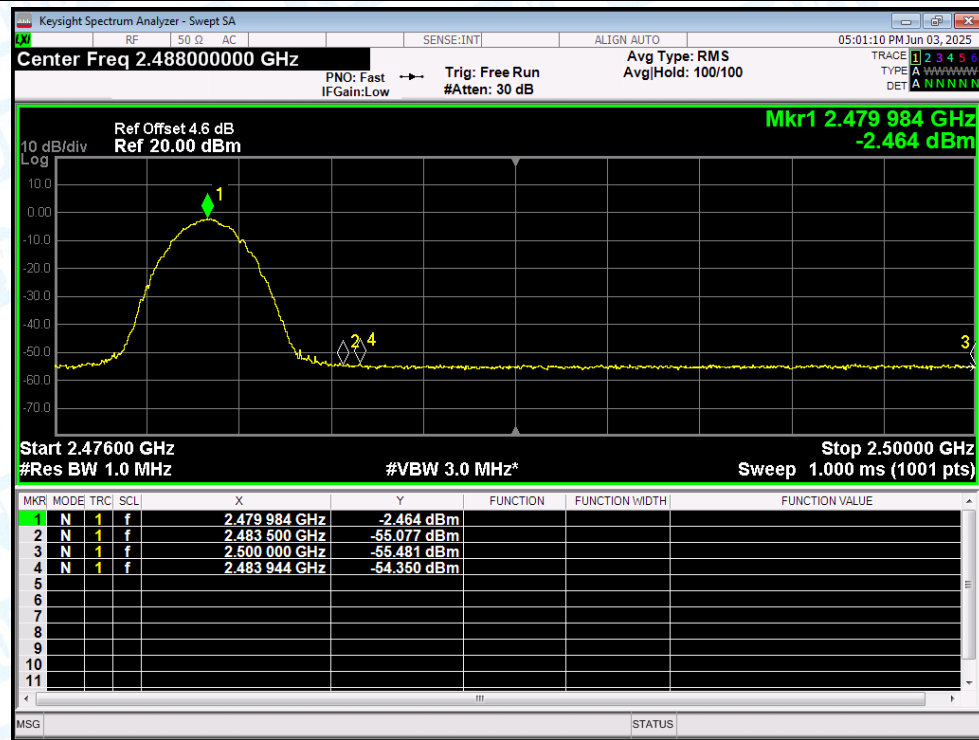
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

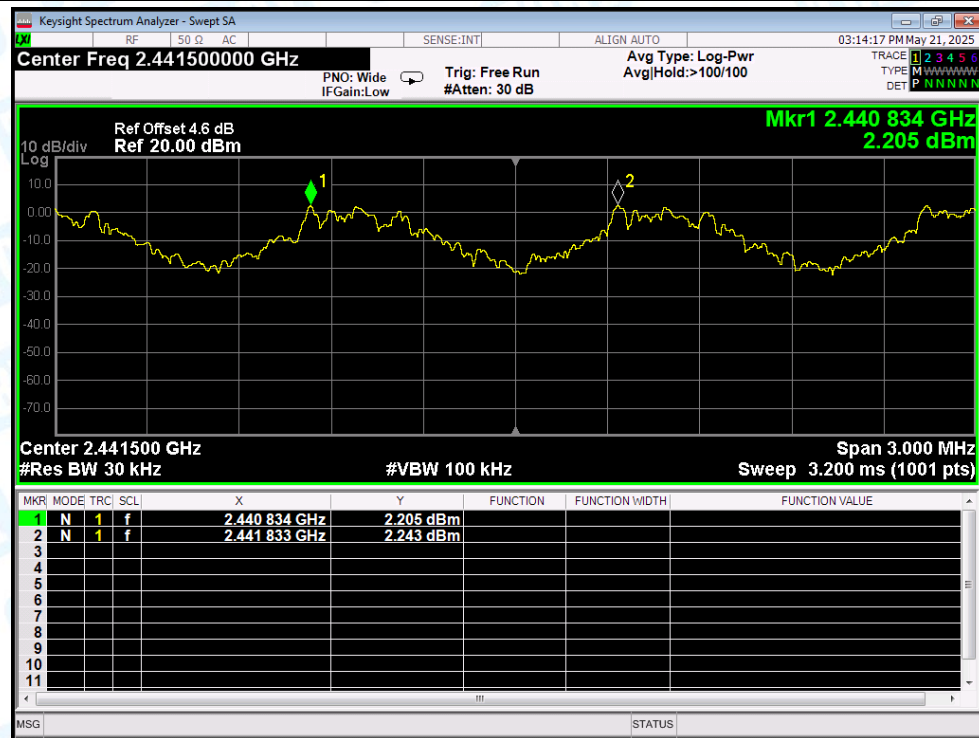


9. Carrier Frequencies Separation

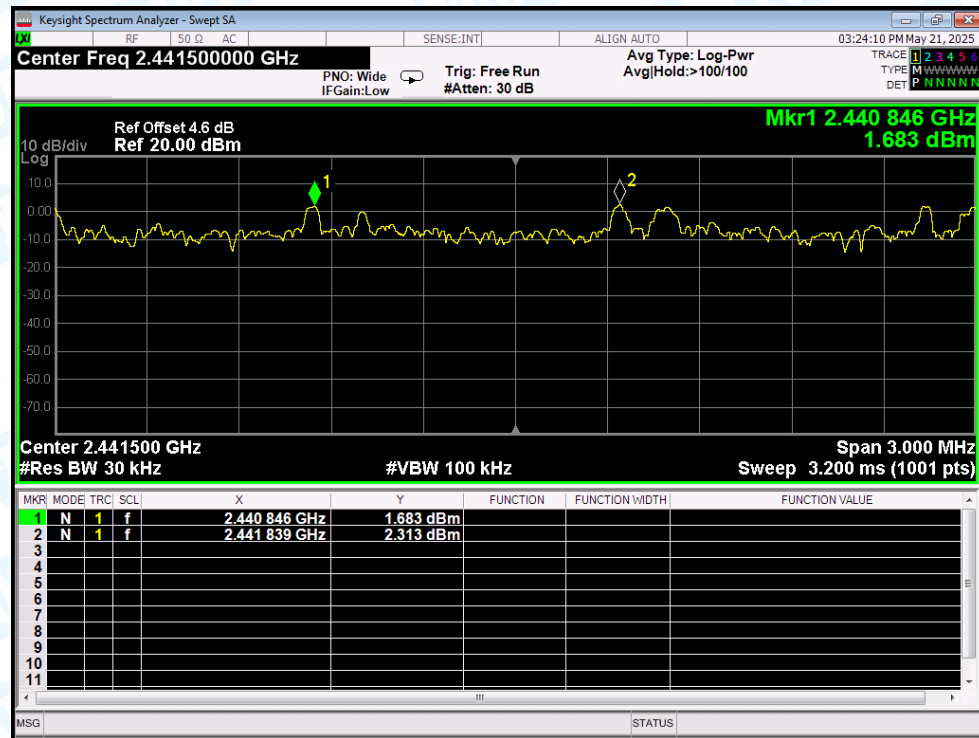
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.834	2441.833	0.999	0.613	Pass
NVNT	2-DH1	Ant1	2440.846	2441.839	0.993	0.84	Pass
NVNT	3-DH1	Ant1	2440.987	2441.98	0.993	0.833	Pass

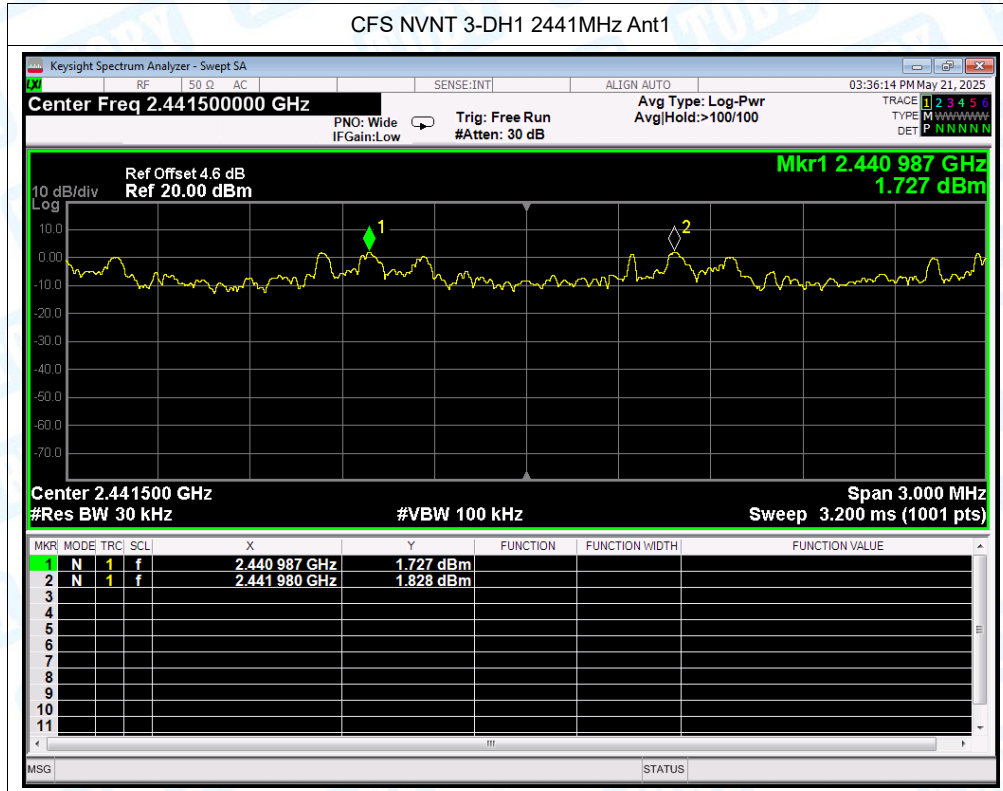
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



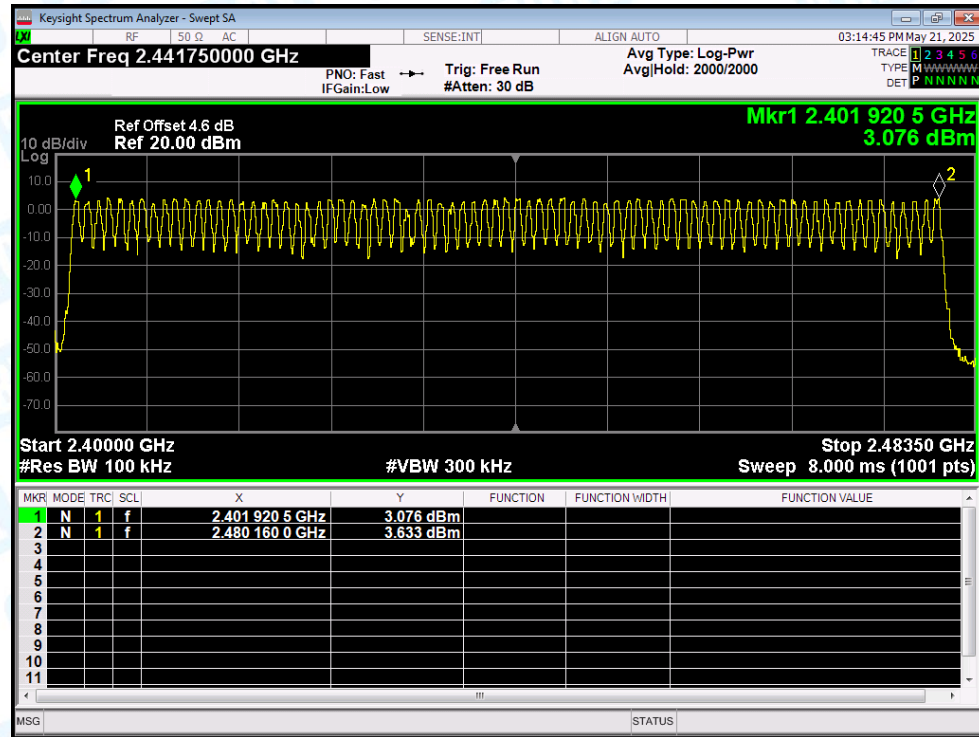


10. Number of Hopping Channel

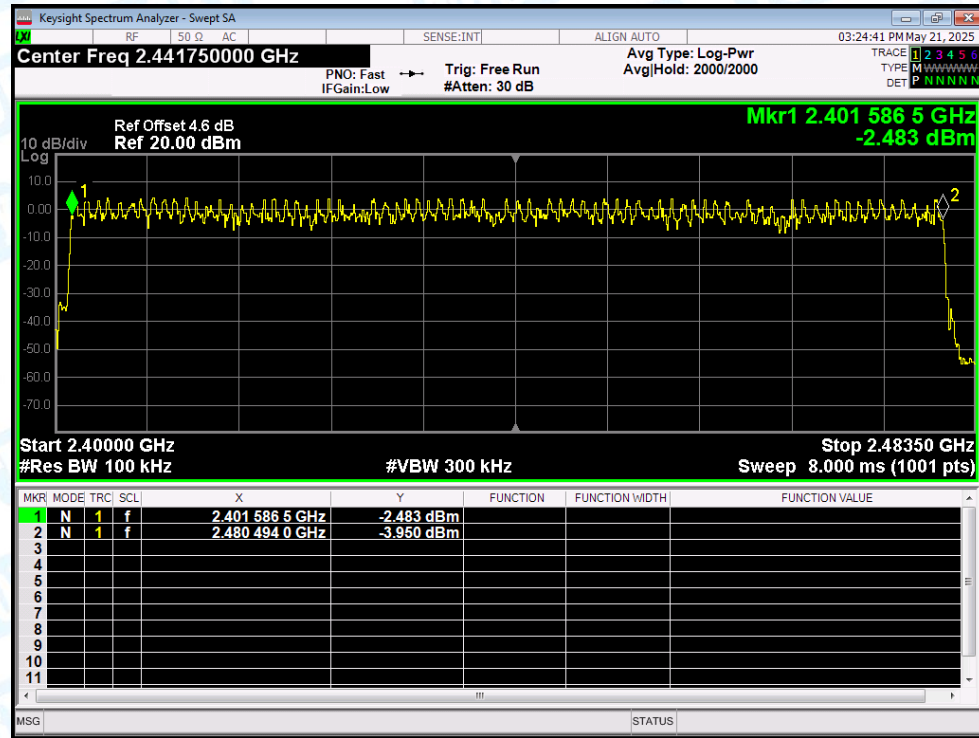
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

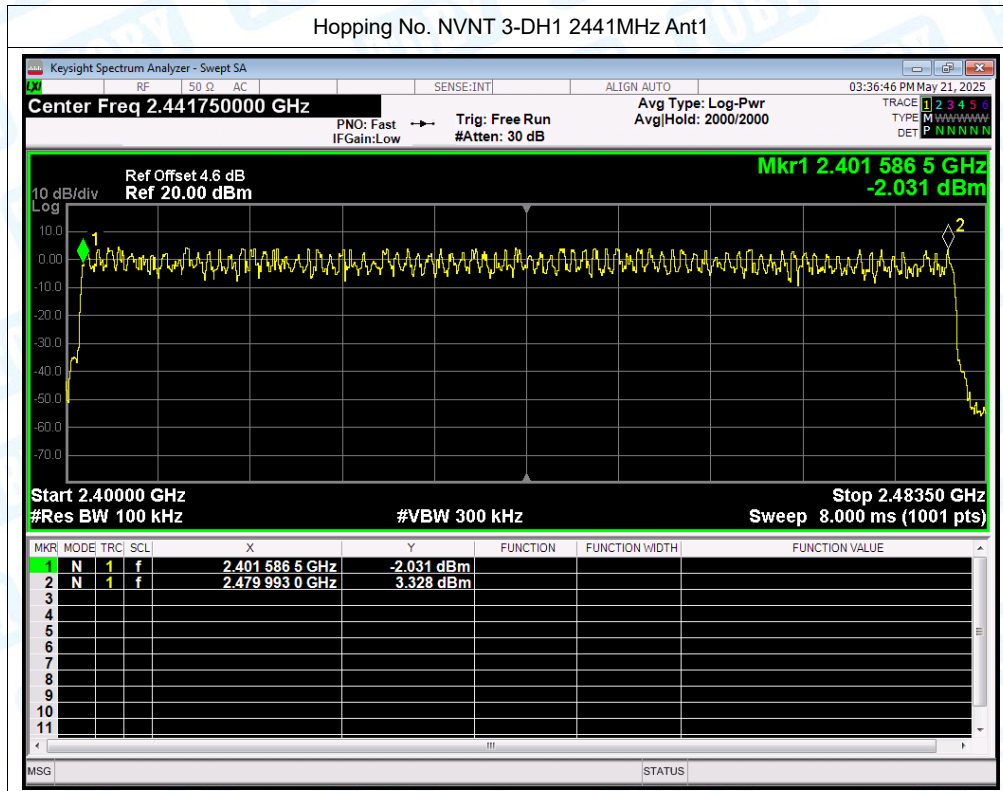
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



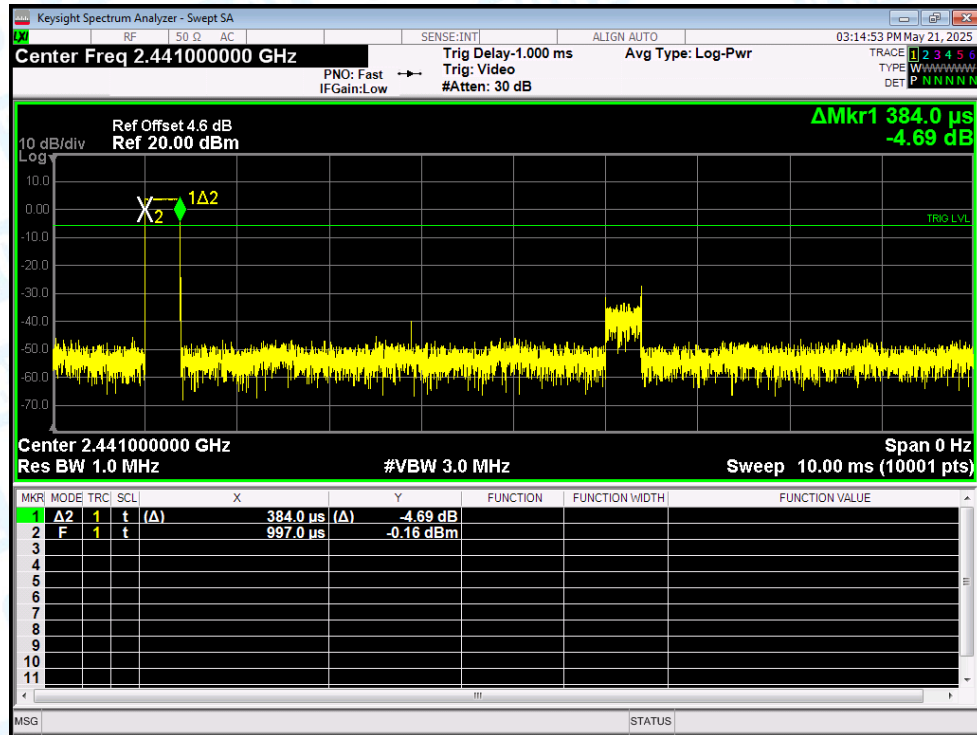


11. Dwell Time

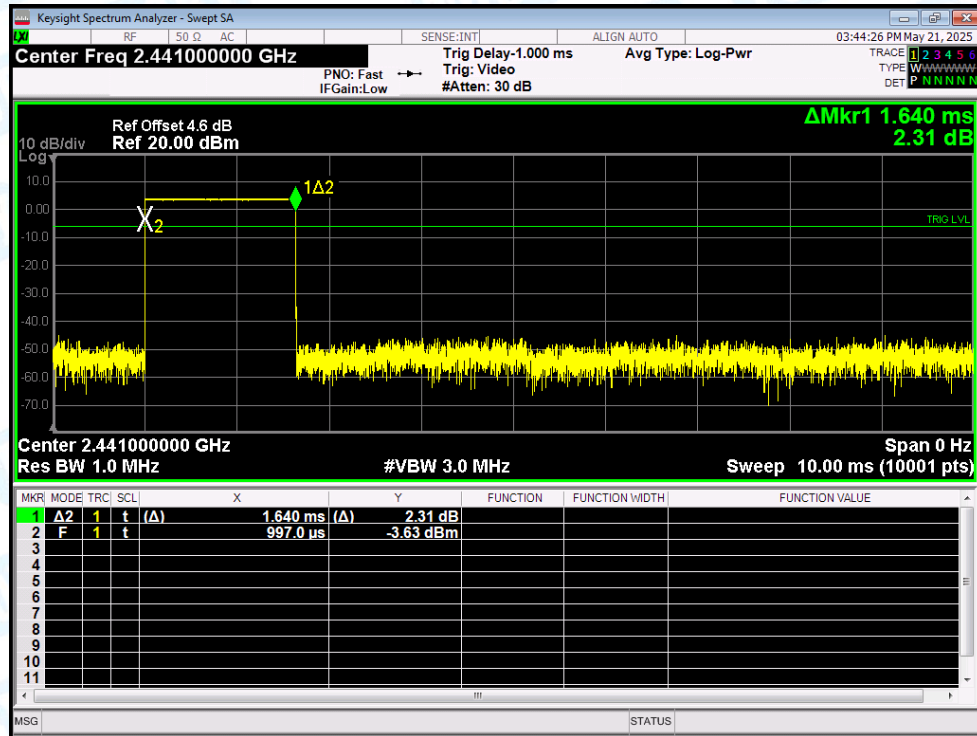
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.384	122.88	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.64	262.4	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.393	125.76	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.645	263.2	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.893	308.587	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

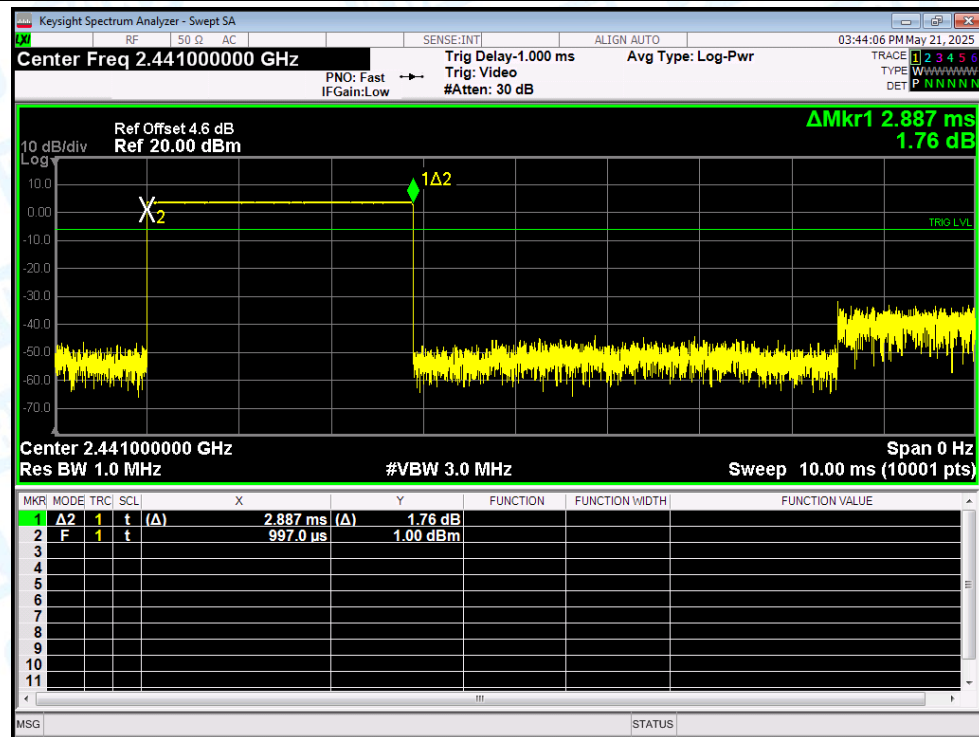
Dwell NVNT 1-DH1 2441MHz Ant1



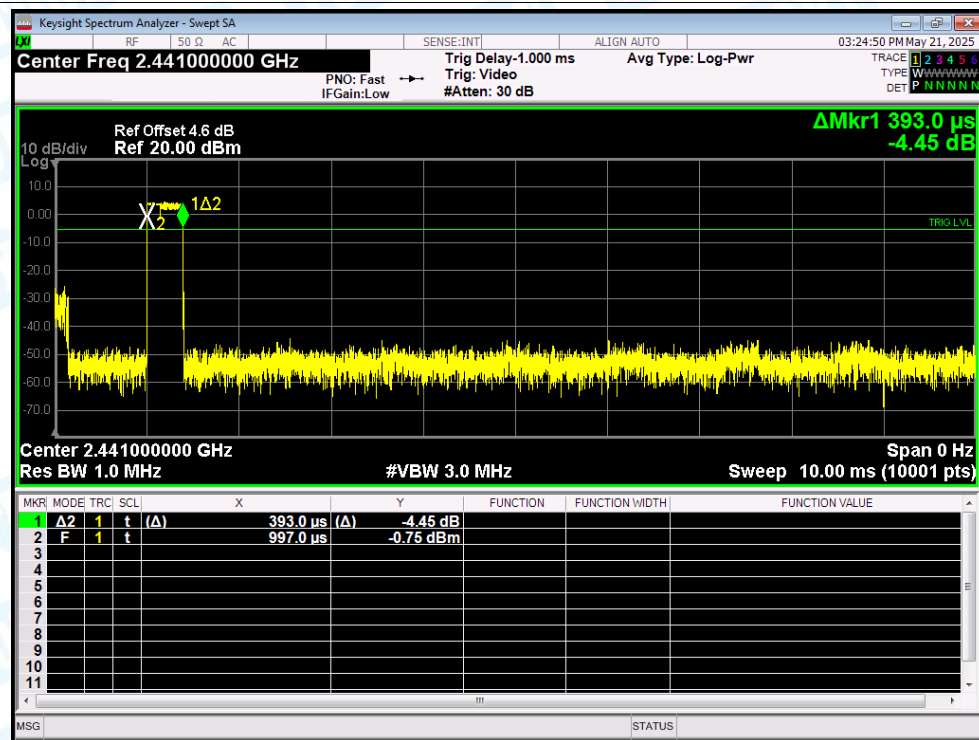
Dwell NVNT 1-DH3 2441MHz Ant1



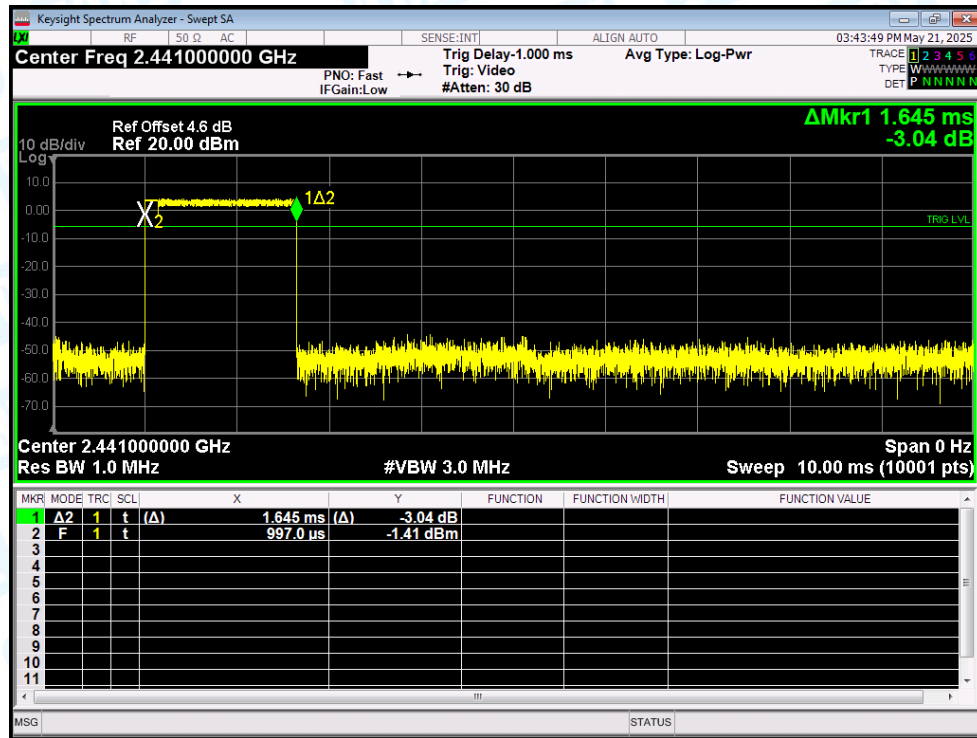
Dwell NVNT 1-DH5 2441MHz Ant1



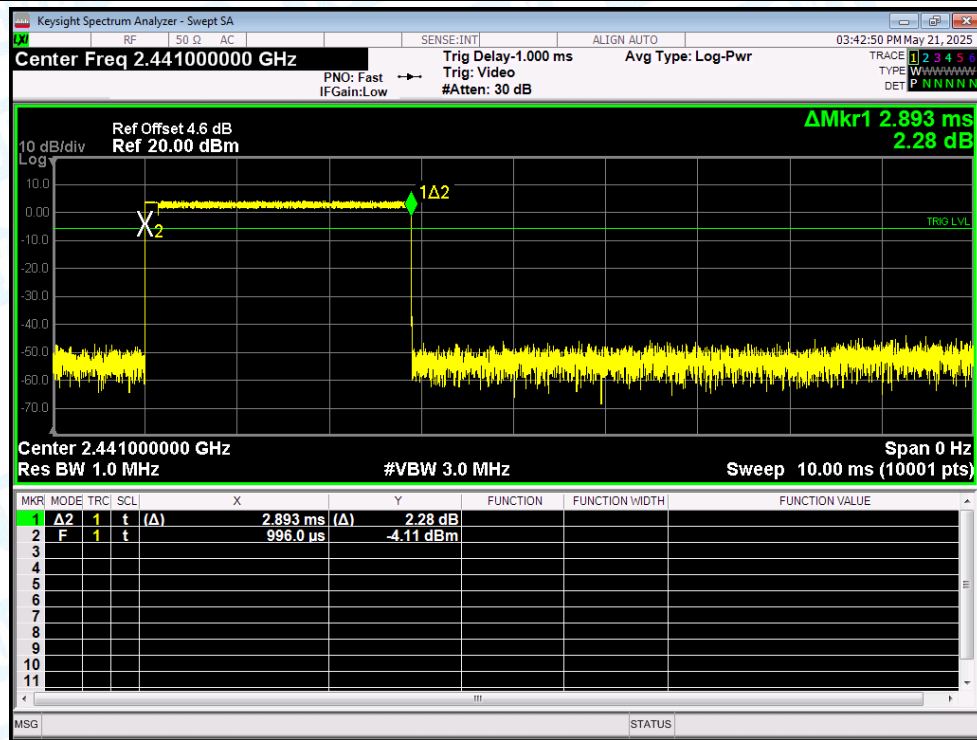
Dwell NVNT 2-DH1 2441MHz Ant1



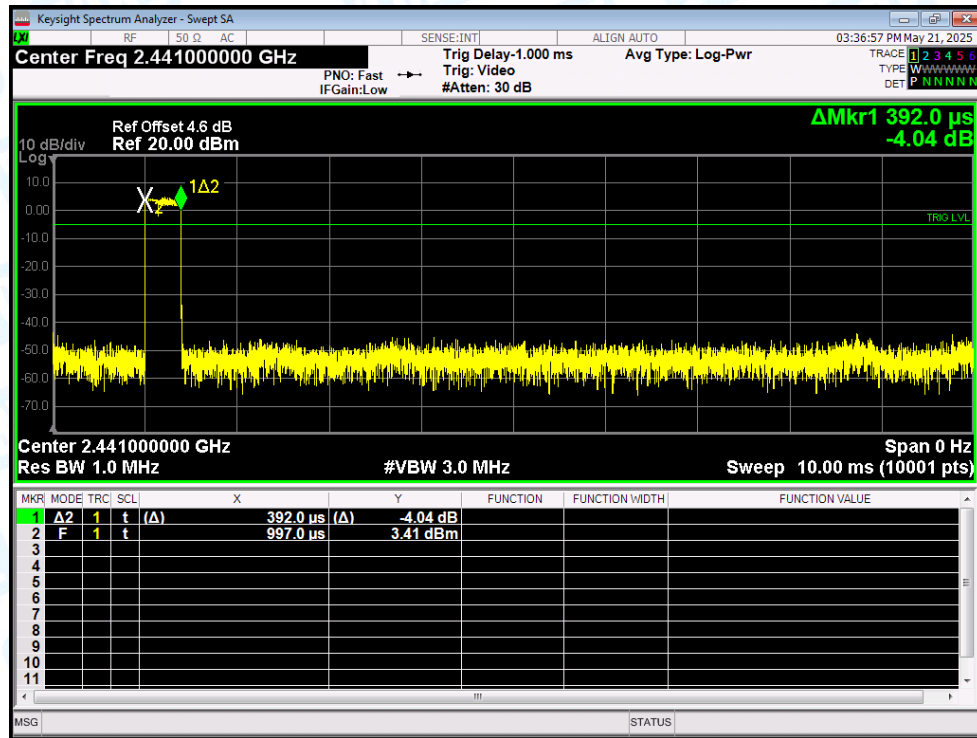
Dwell NVNT 2-DH3 2441MHz Ant1



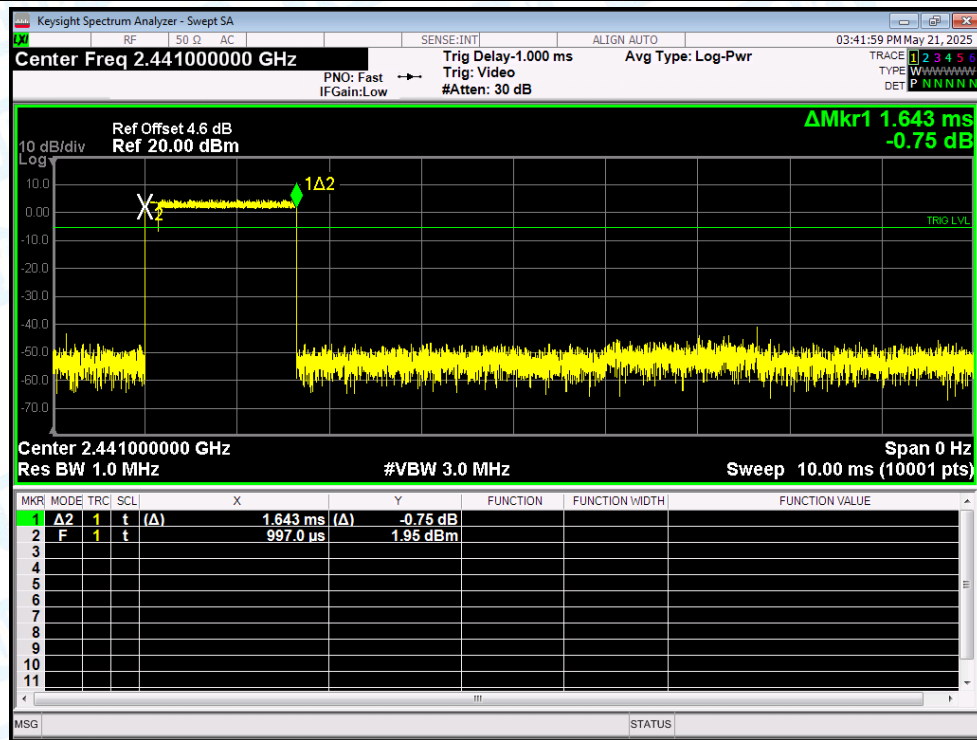
Dwell NVNT 2-DH5 2441MHz Ant1

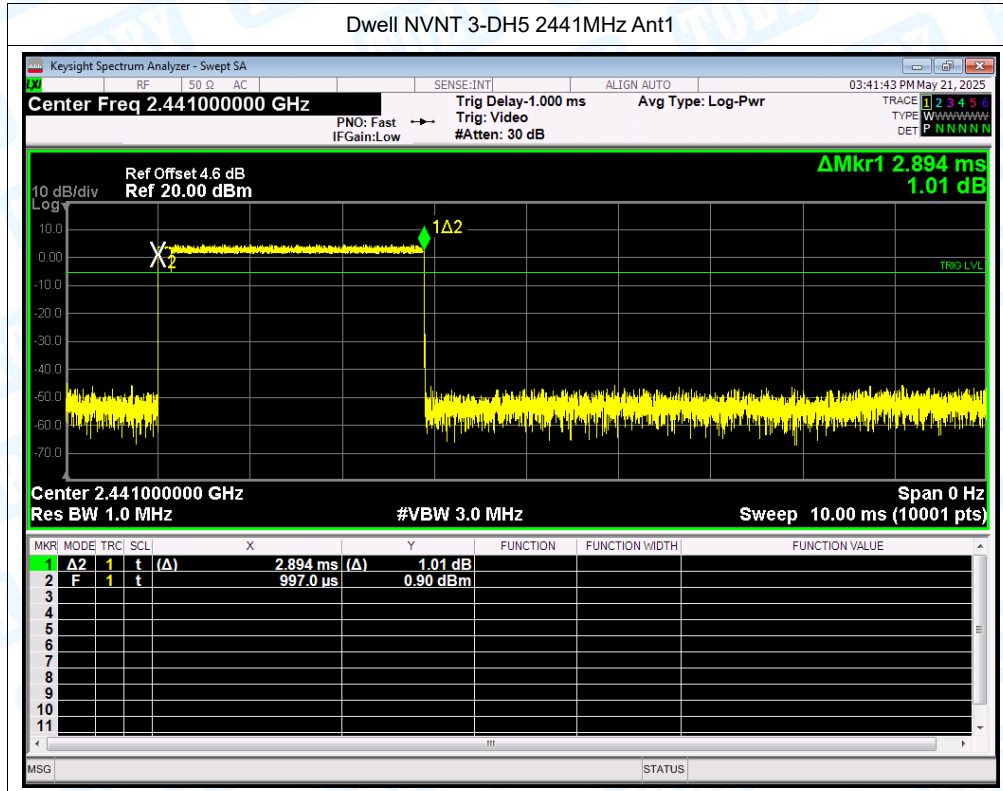


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





---- END OF REPORT ----