

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	GenBook RK3588
Test Model:	GENBOOK-RK3588-X1
Sample ID:	HC-C-202406-0184-6-02
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 7.6V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202406-0184-131 The report only show the worst case data.	

Contents

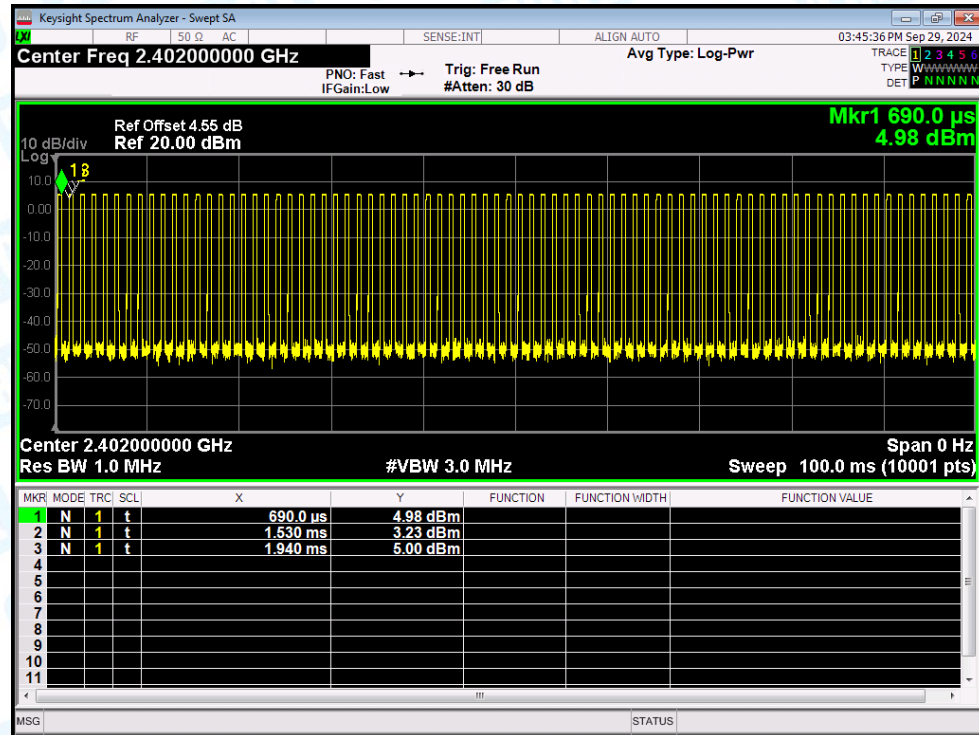
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1. Duty Cycle

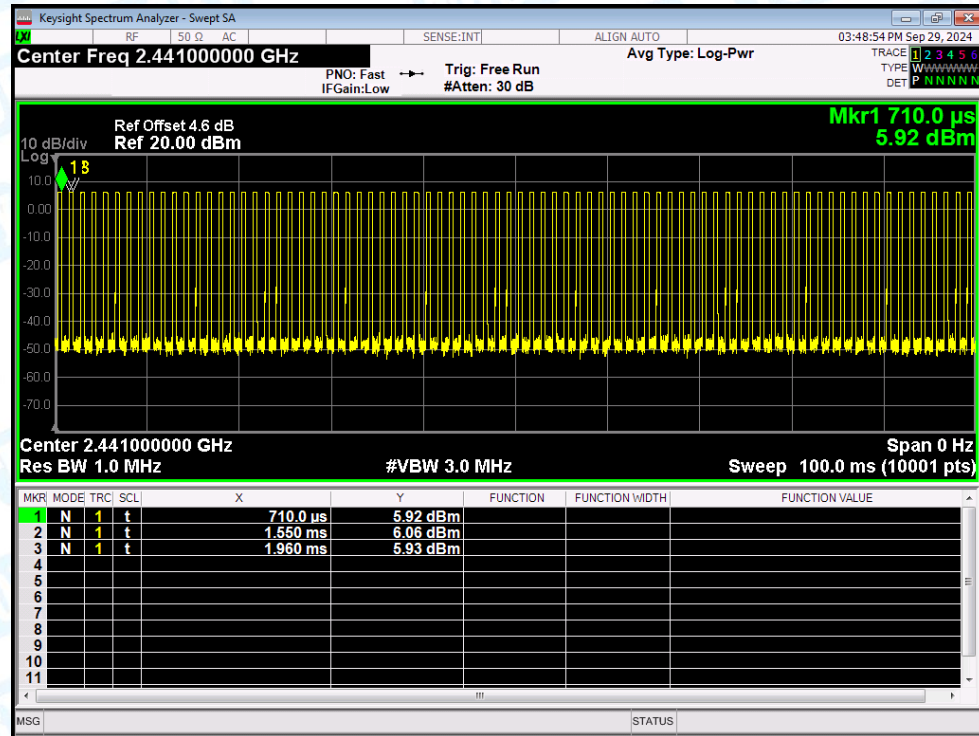
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2480	Ant1	32	4.95	2.5
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	3-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	32	4.95	2.5

Test Graphs

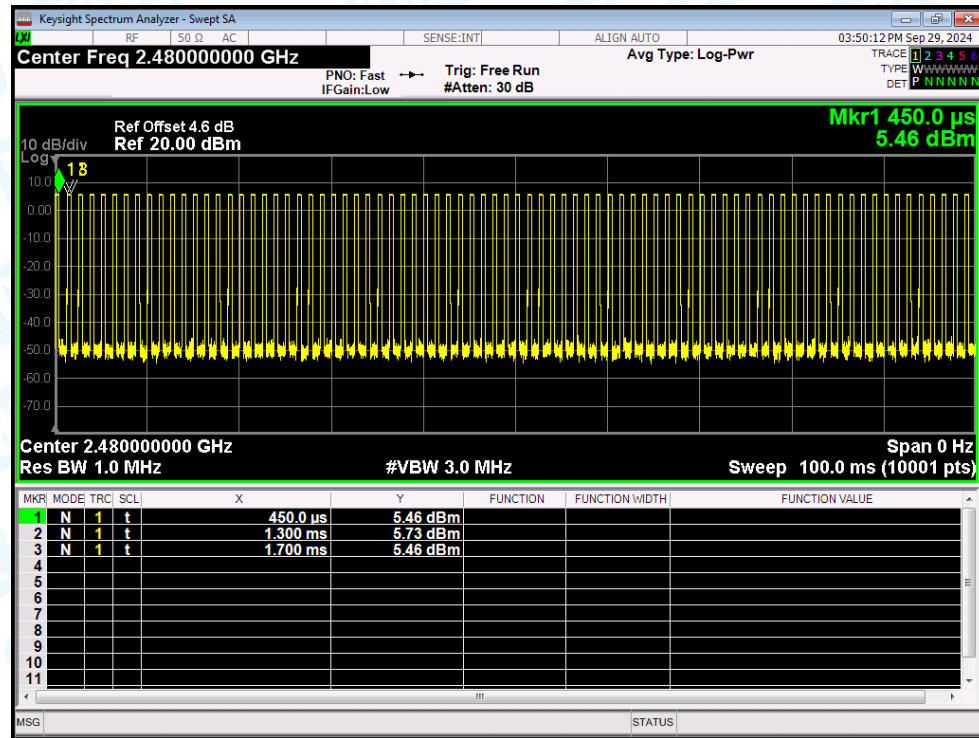
Duty Cycle NVNT 1-DH1 2402MHz Ant1



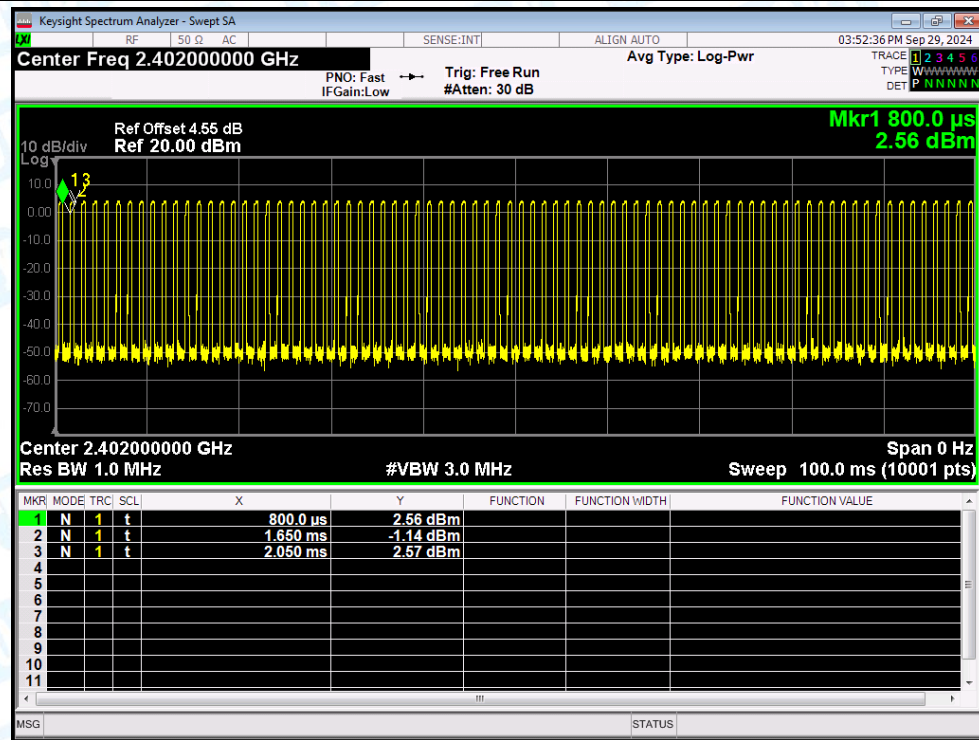
Duty Cycle NVNT 1-DH1 2441MHz Ant1



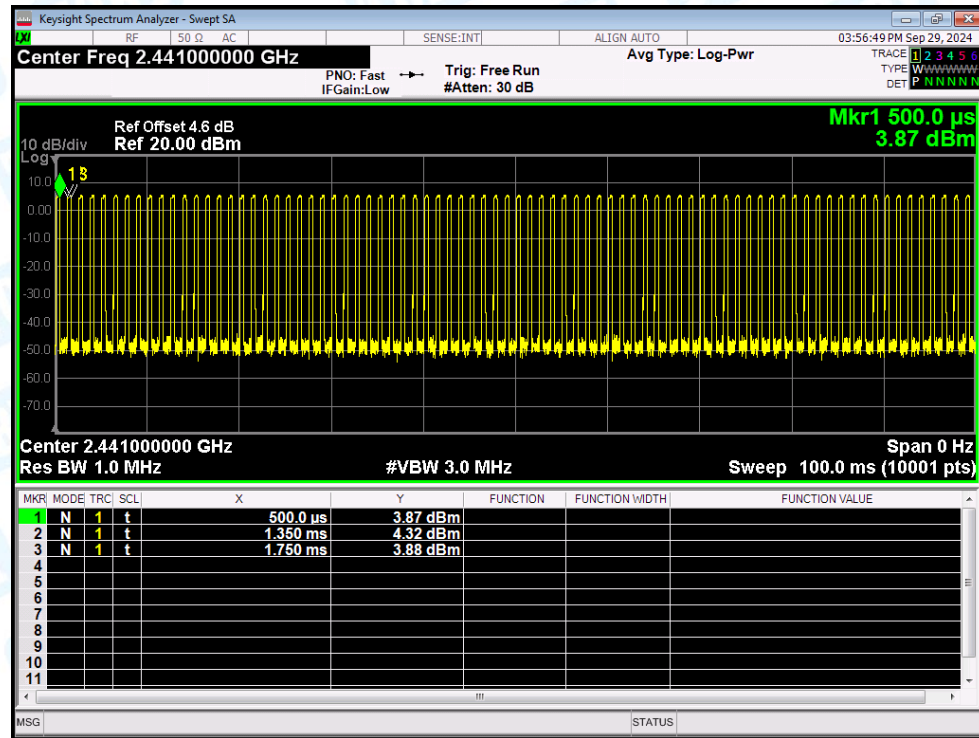
Duty Cycle NVNT 1-DH1 2480MHz Ant1



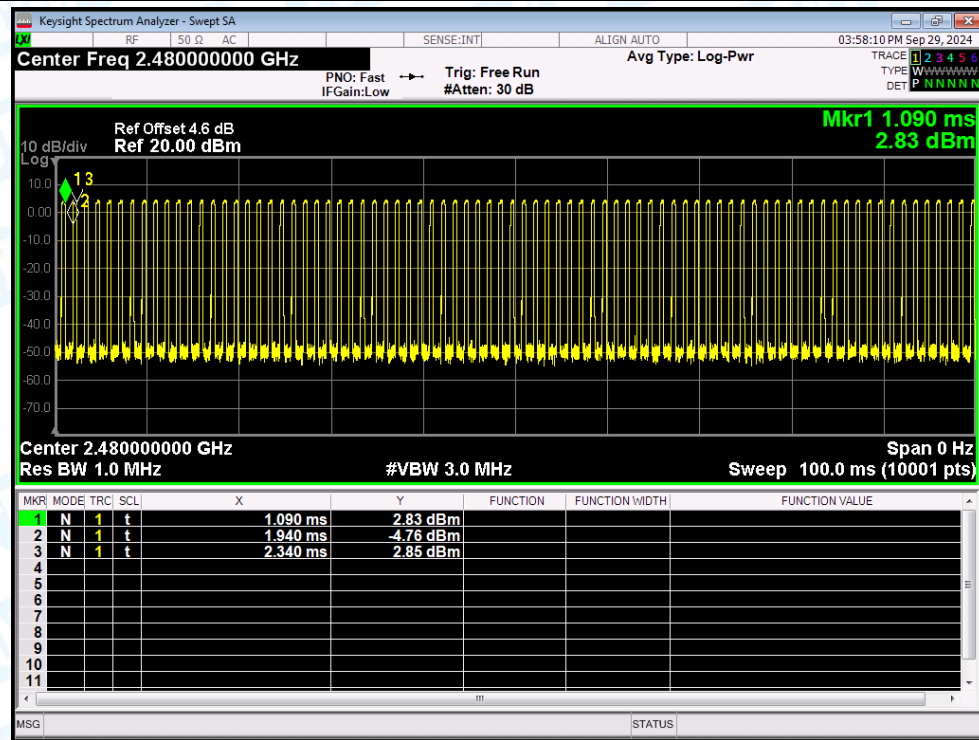
Duty Cycle NVNT 2-DH1 2402MHz Ant1



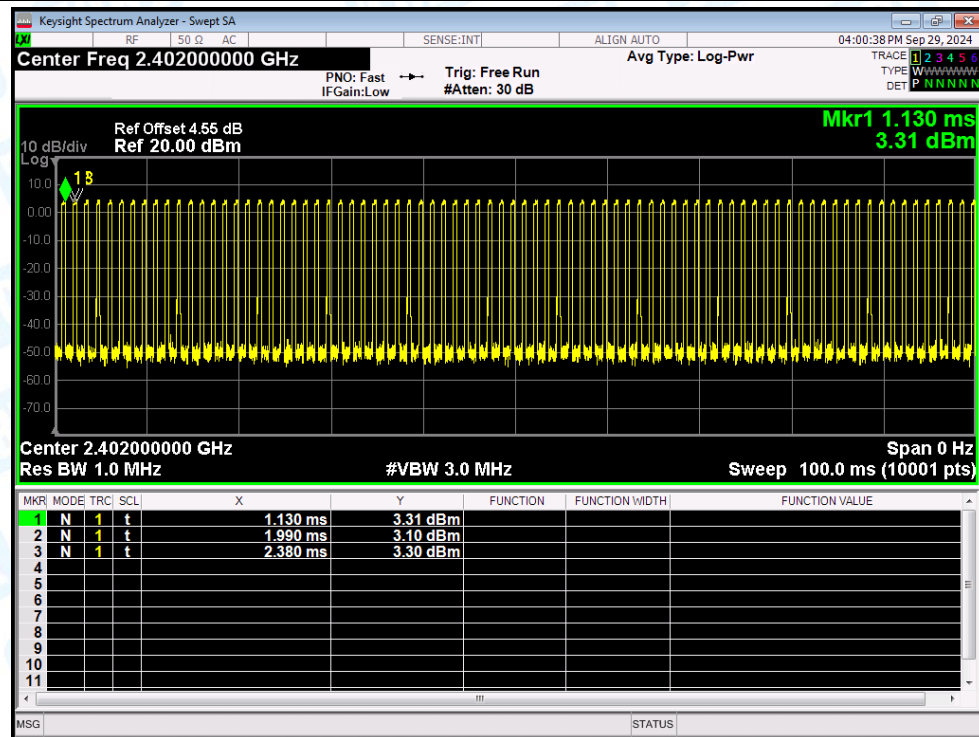
Duty Cycle NVNT 2-DH1 2441MHz Ant1



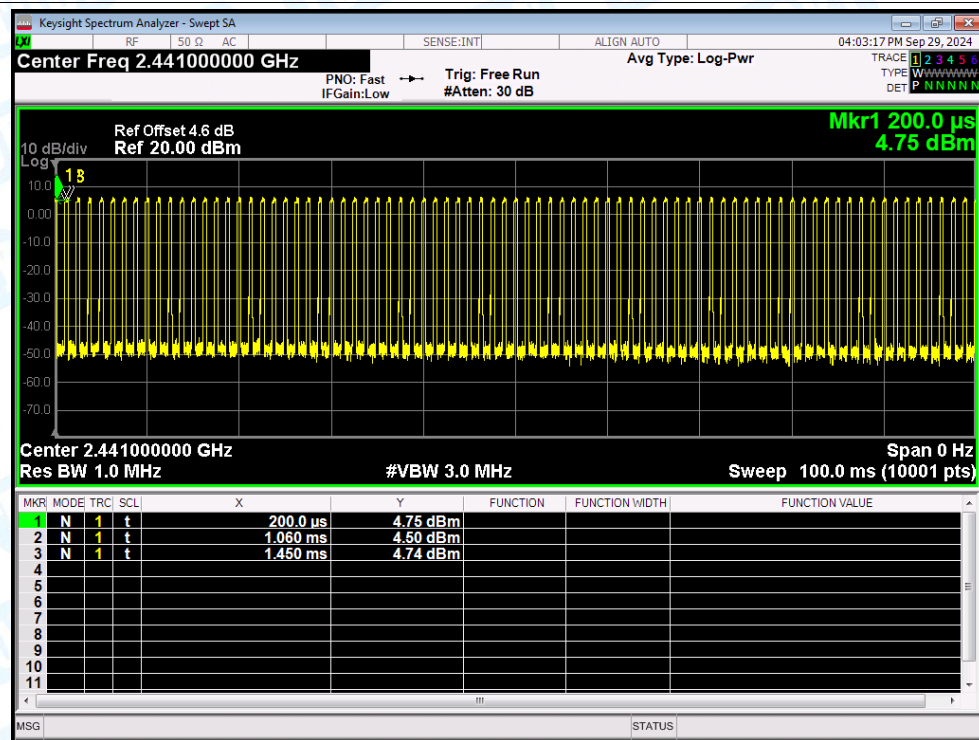
Duty Cycle NVNT 2-DH1 2480MHz Ant1

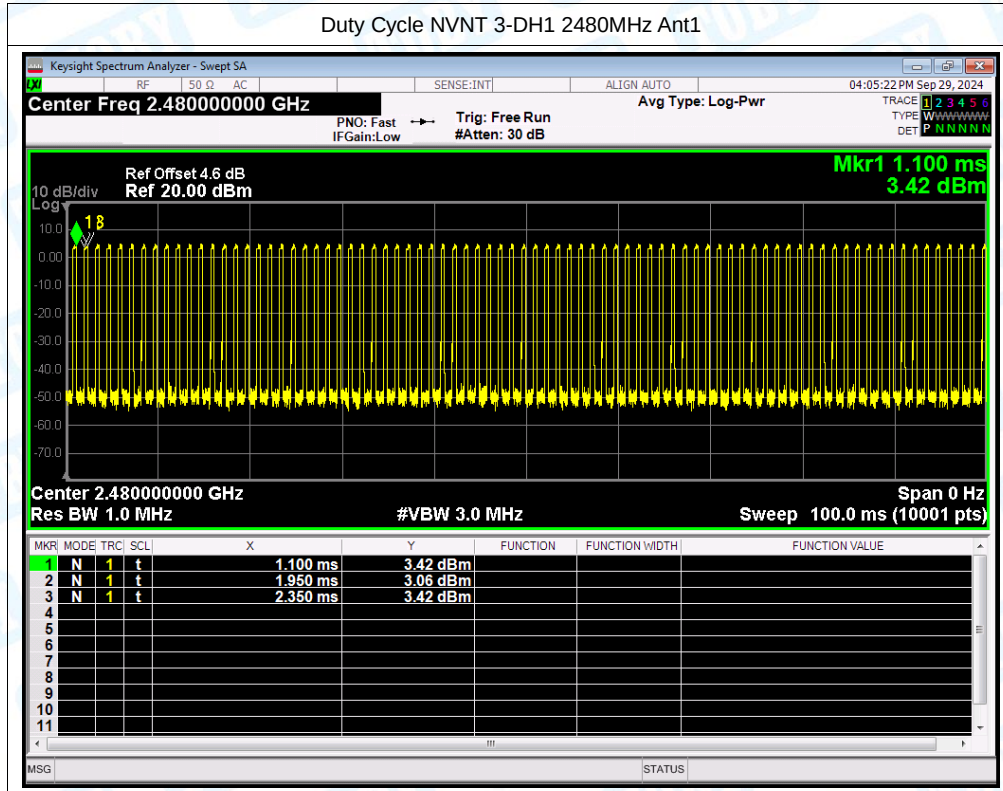


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



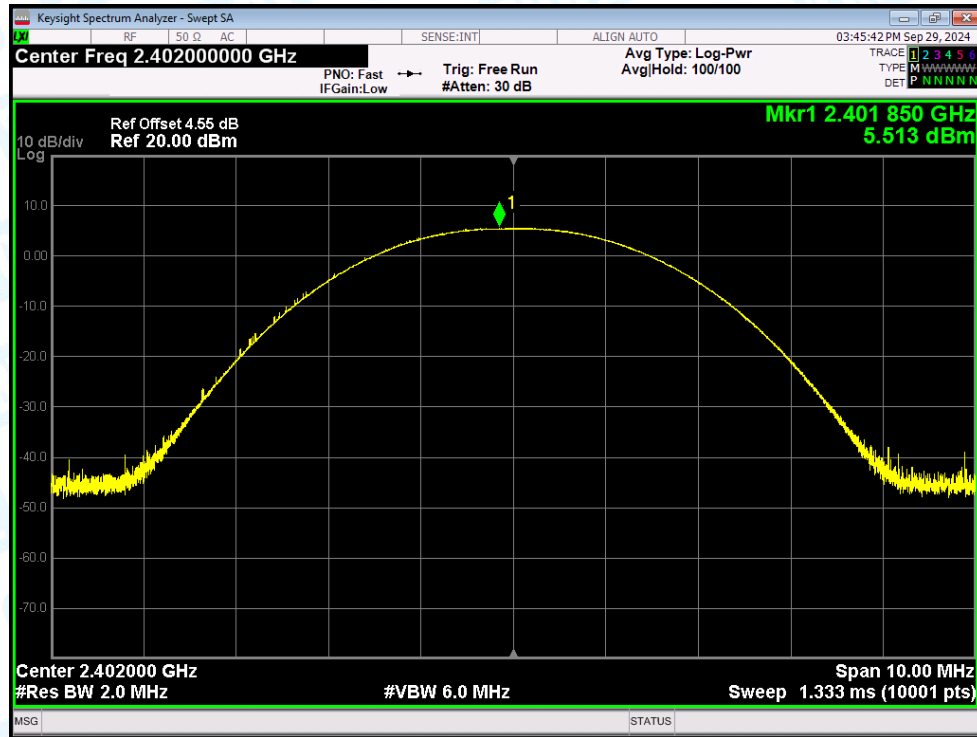


2. Maximum Conducted Output Power

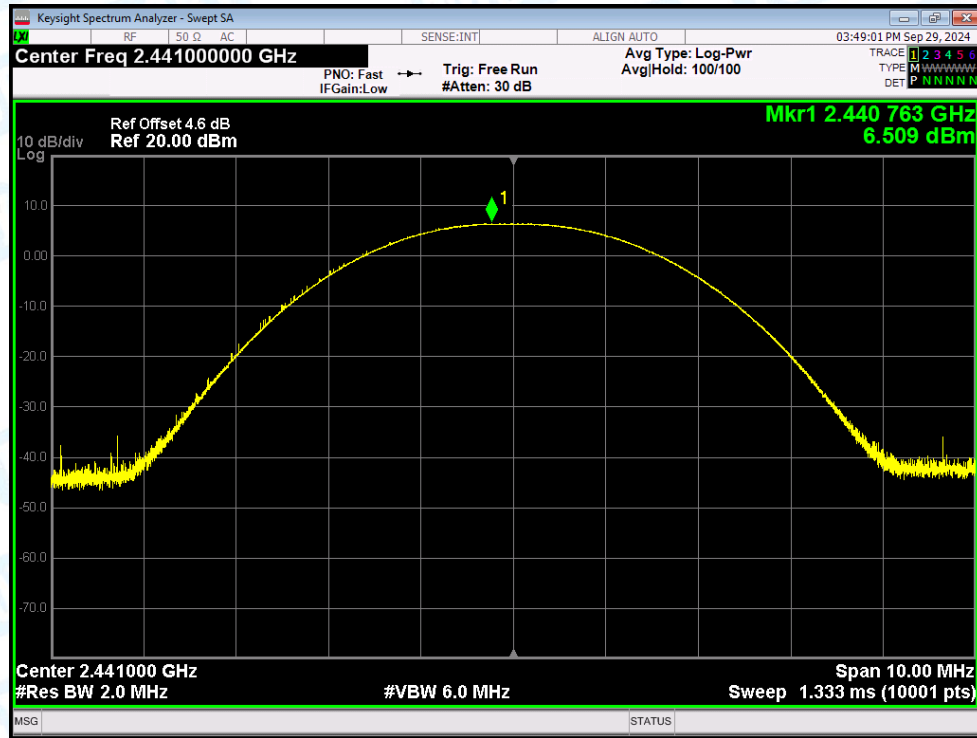
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	5.513	21	Pass
NVNT	1-DH1	2441	Ant1	6.509	21	Pass
NVNT	1-DH1	2480	Ant1	6.058	21	Pass
NVNT	1-DH3	2441	Ant1	6.223	21	Pass
NVNT	1-DH5	2441	Ant1	6.033	21	Pass
NVNT	2-DH1	2402	Ant1	4.816	21	Pass
NVNT	2-DH1	2441	Ant1	6.13	21	Pass
NVNT	2-DH1	2480	Ant1	5.059	21	Pass
NVNT	2-DH3	2441	Ant1	6.141	21	Pass
NVNT	2-DH5	2441	Ant1	6.168	21	Pass
NVNT	3-DH1	2402	Ant1	5.066	21	Pass
NVNT	3-DH1	2441	Ant1	6.473	21	Pass
NVNT	3-DH1	2480	Ant1	5.147	21	Pass
NVNT	3-DH3	2441	Ant1	6.277	21	Pass
NVNT	3-DH5	2441	Ant1	6.412	21	Pass

Test Graphs

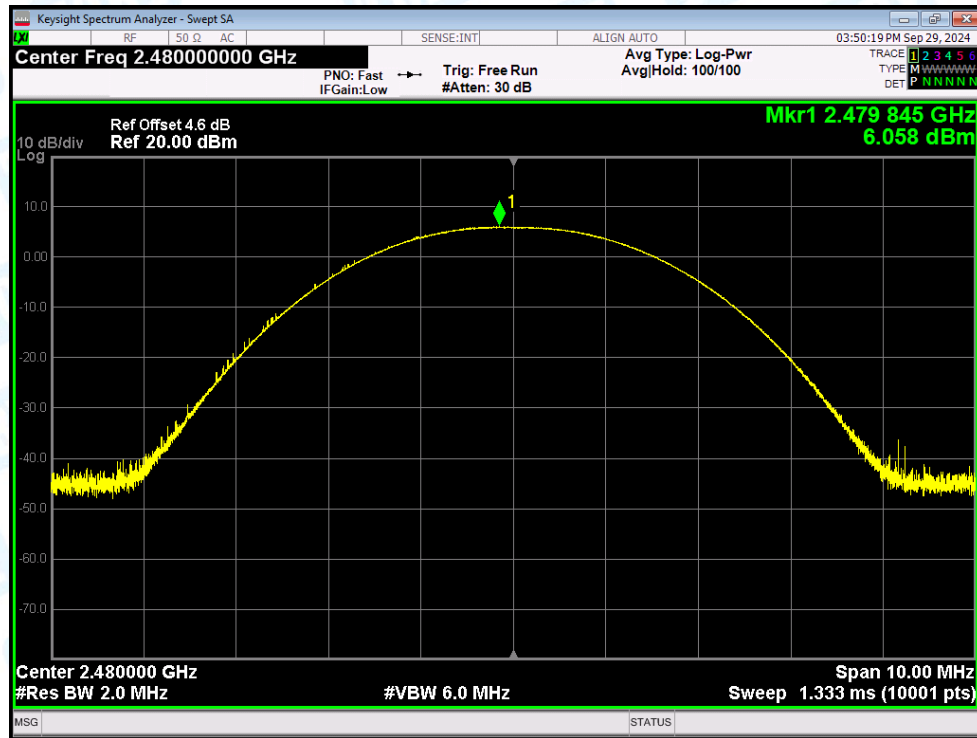
Power NVNT 1-DH1 2402MHz Ant1



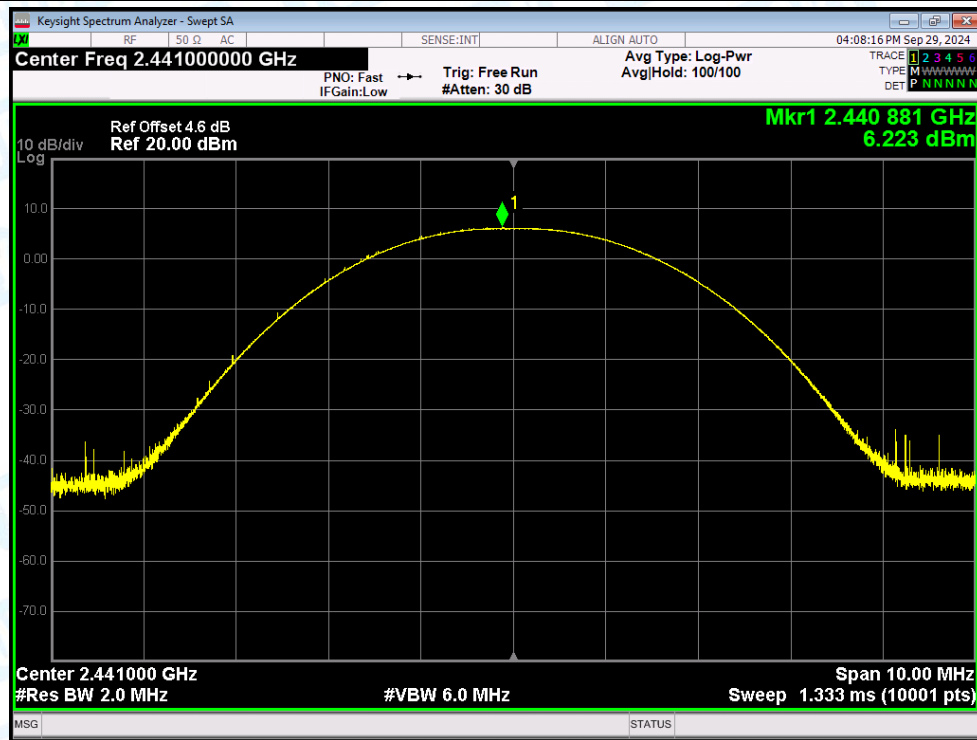
Power NVNT 1-DH1 2441MHz Ant1



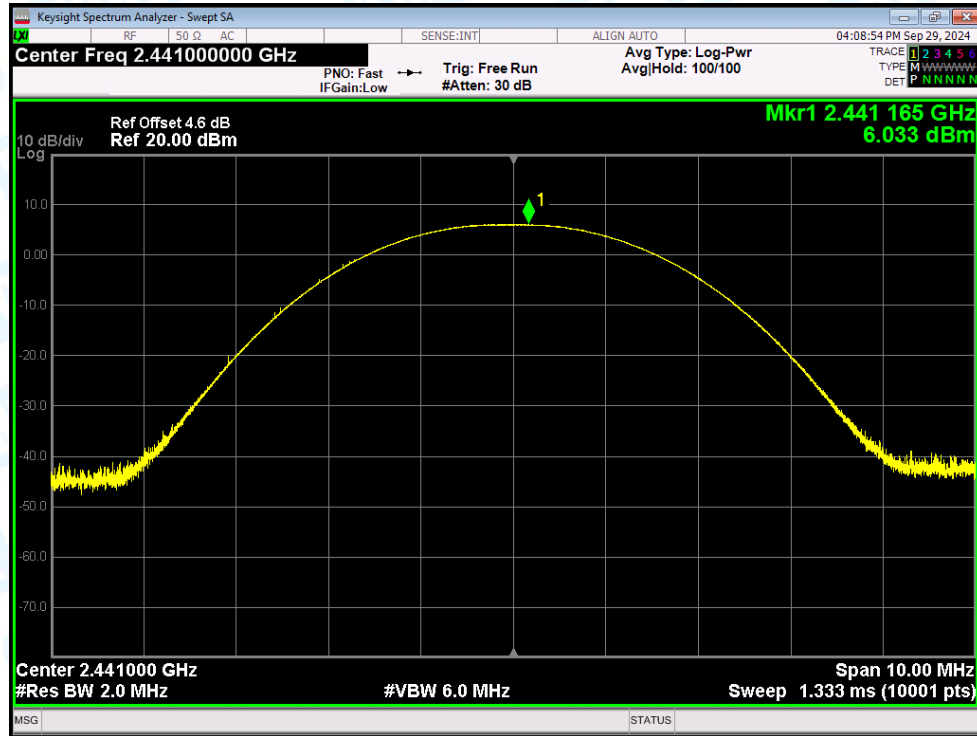
Power NVNT 1-DH1 2480MHz Ant1



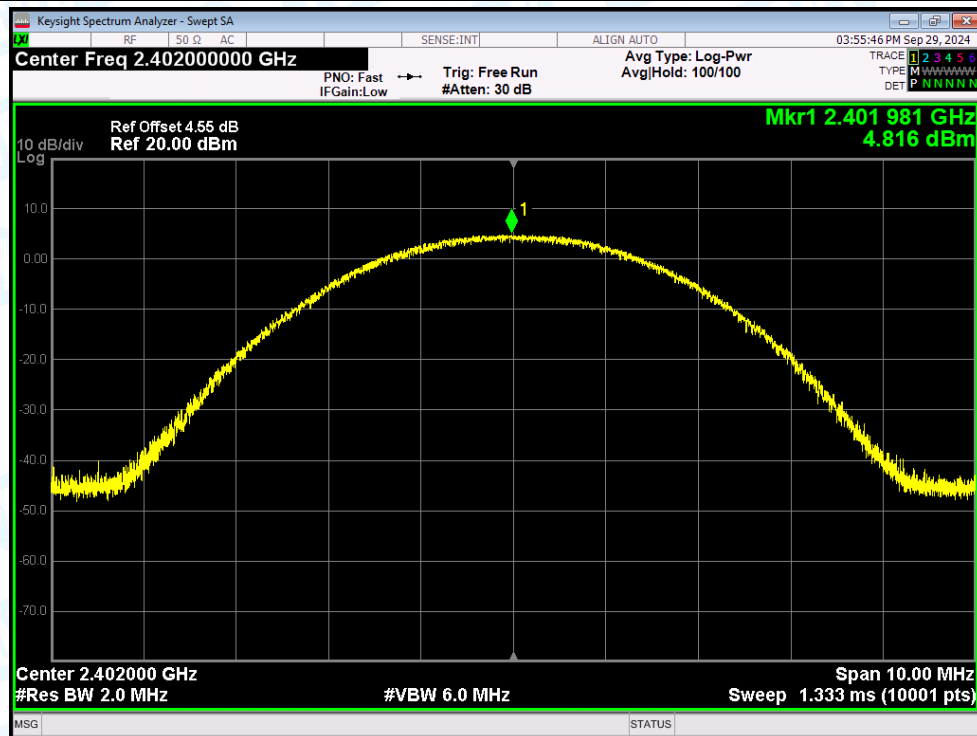
Power NVNT 1-DH3 2441MHz Ant1



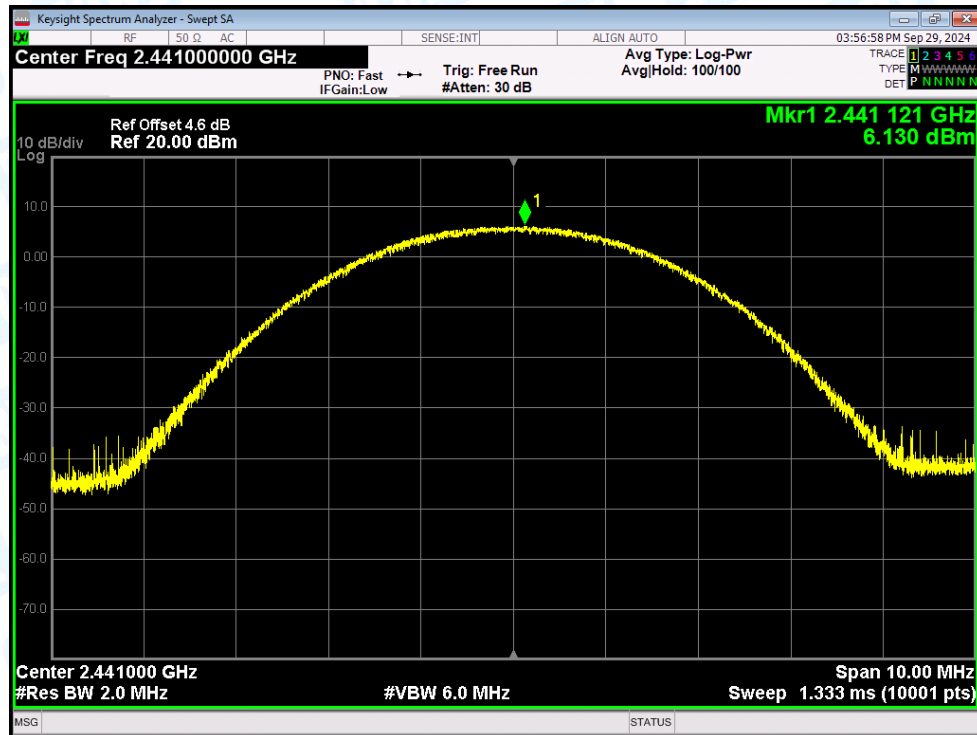
Power NVNT 1-DH5 2441MHz Ant1



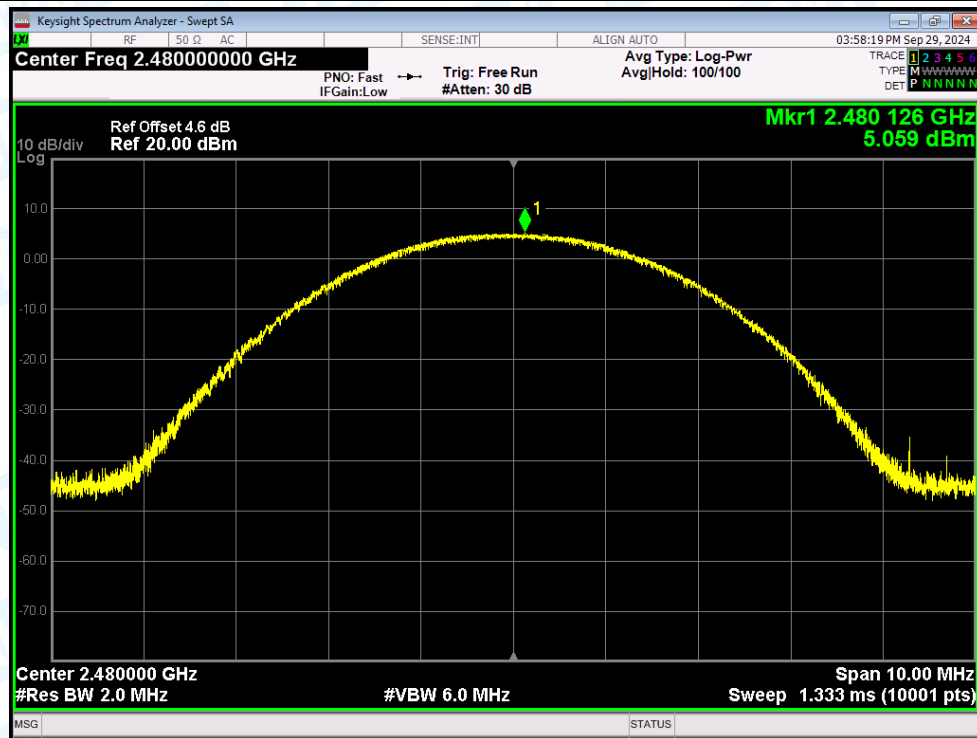
Power NVNT 2-DH1 2402MHz Ant1



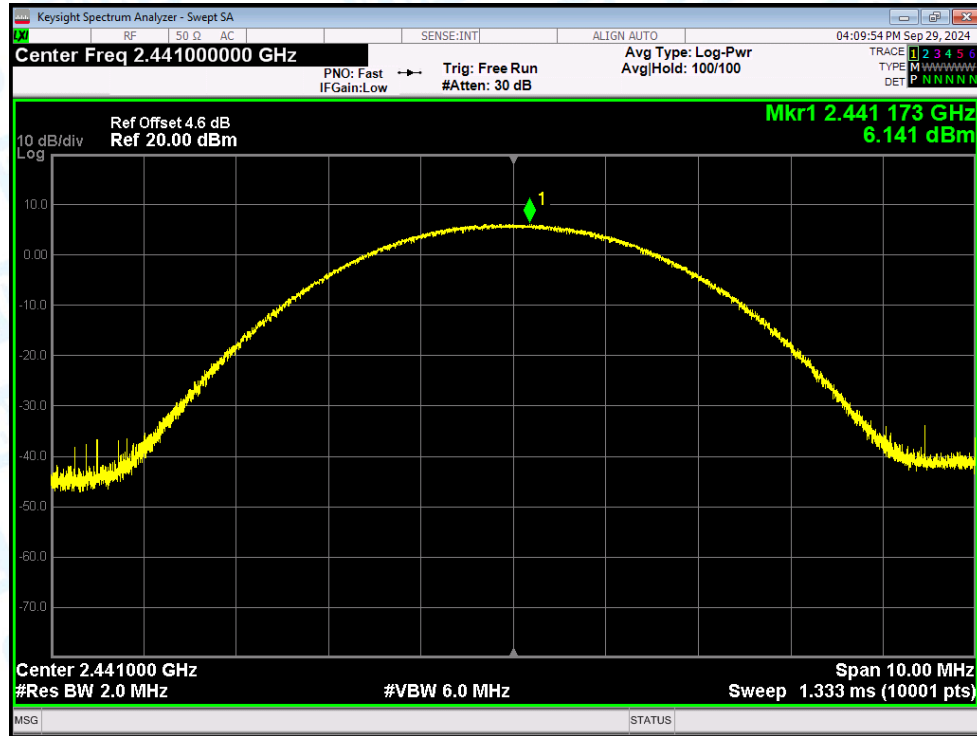
Power NVNT 2-DH1 2441MHz Ant1



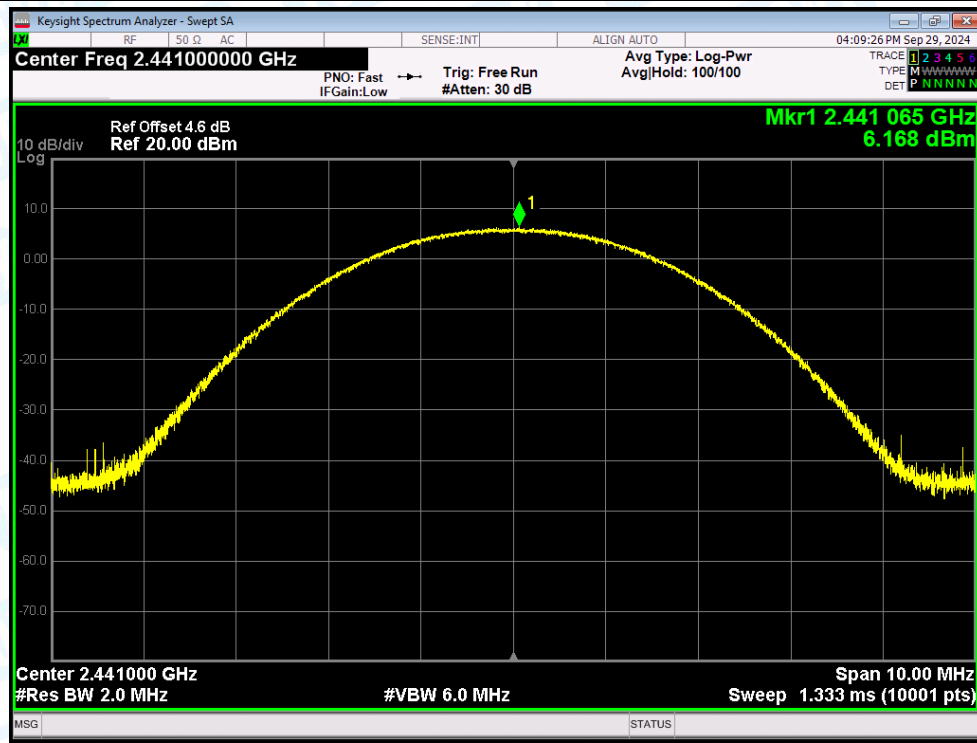
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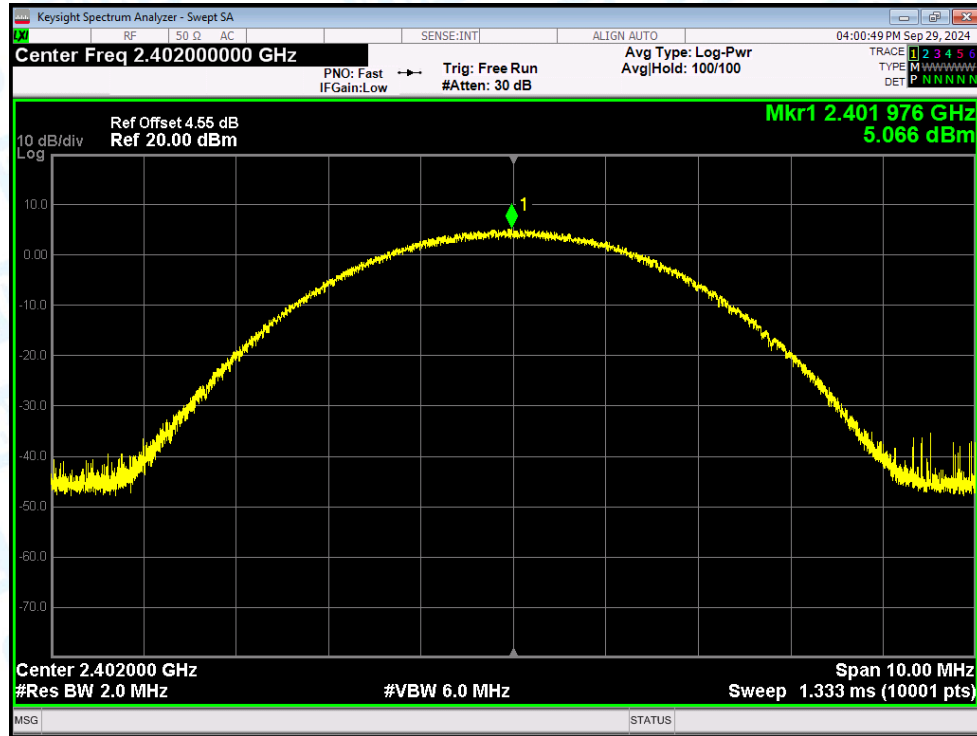
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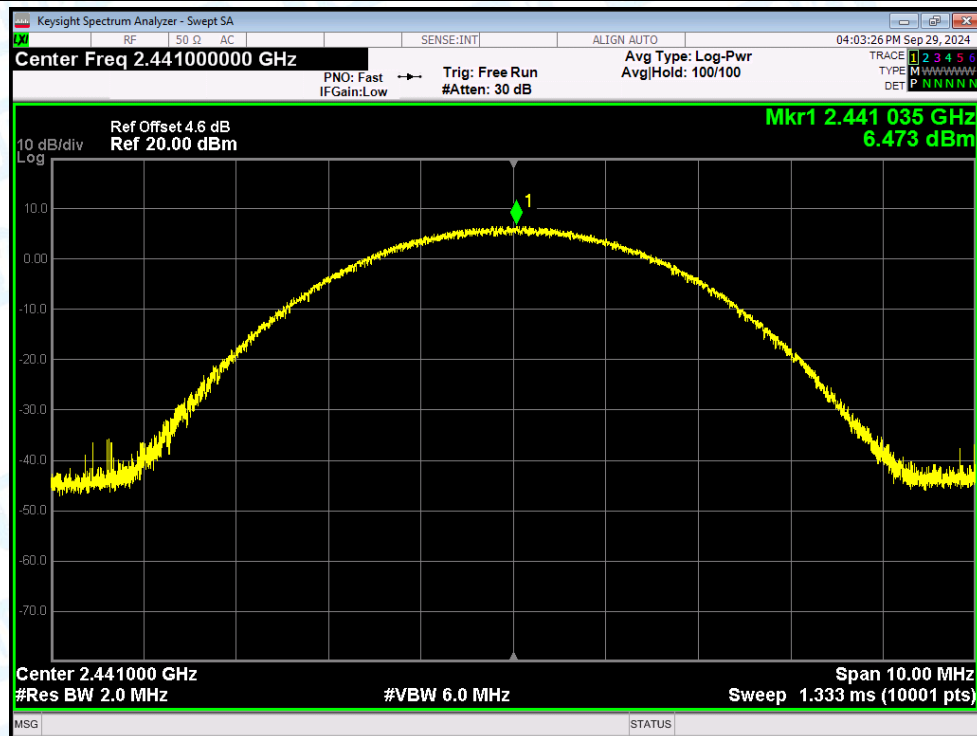
Power NVNT 2-DH5 2441MHz Ant1



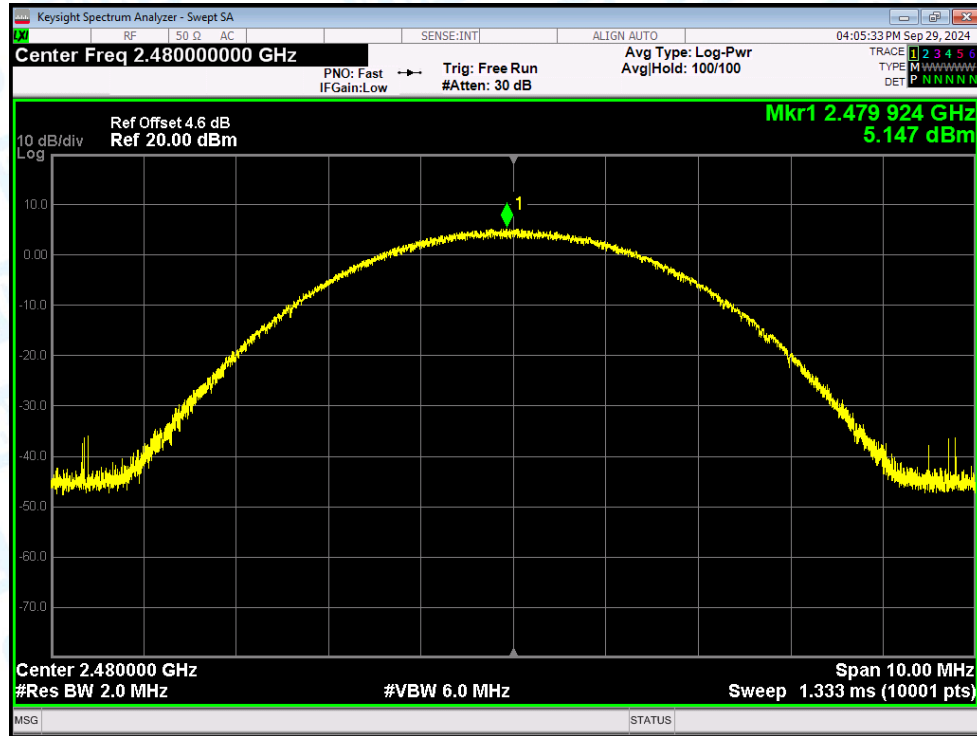
Power NVNT 3-DH1 2402MHz Ant1



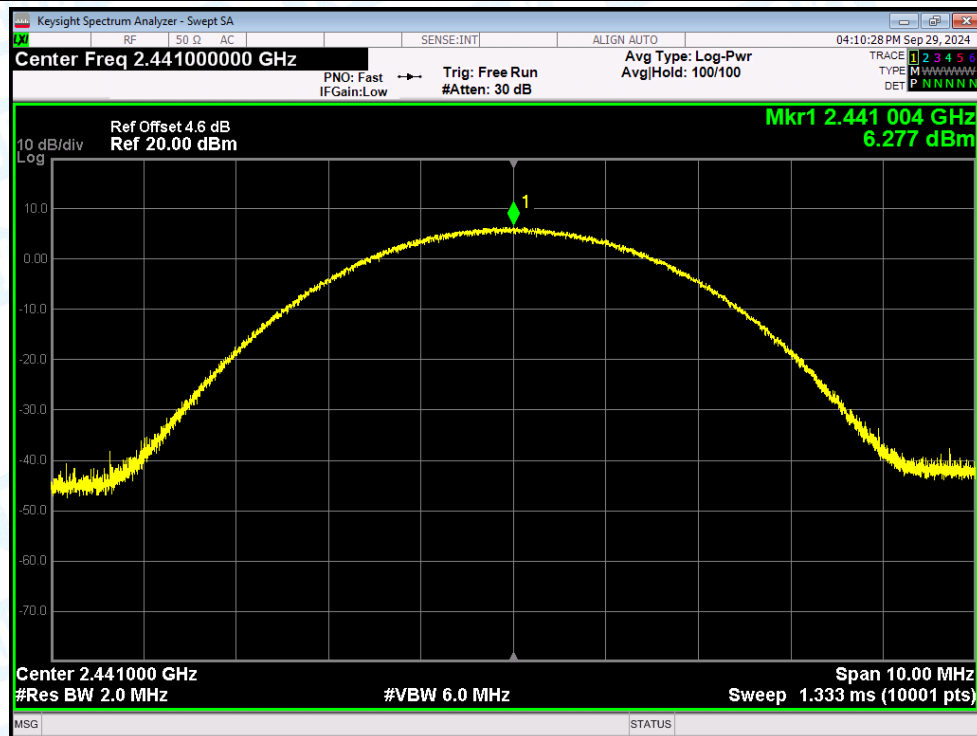
Power NVNT 3-DH1 2441MHz Ant1

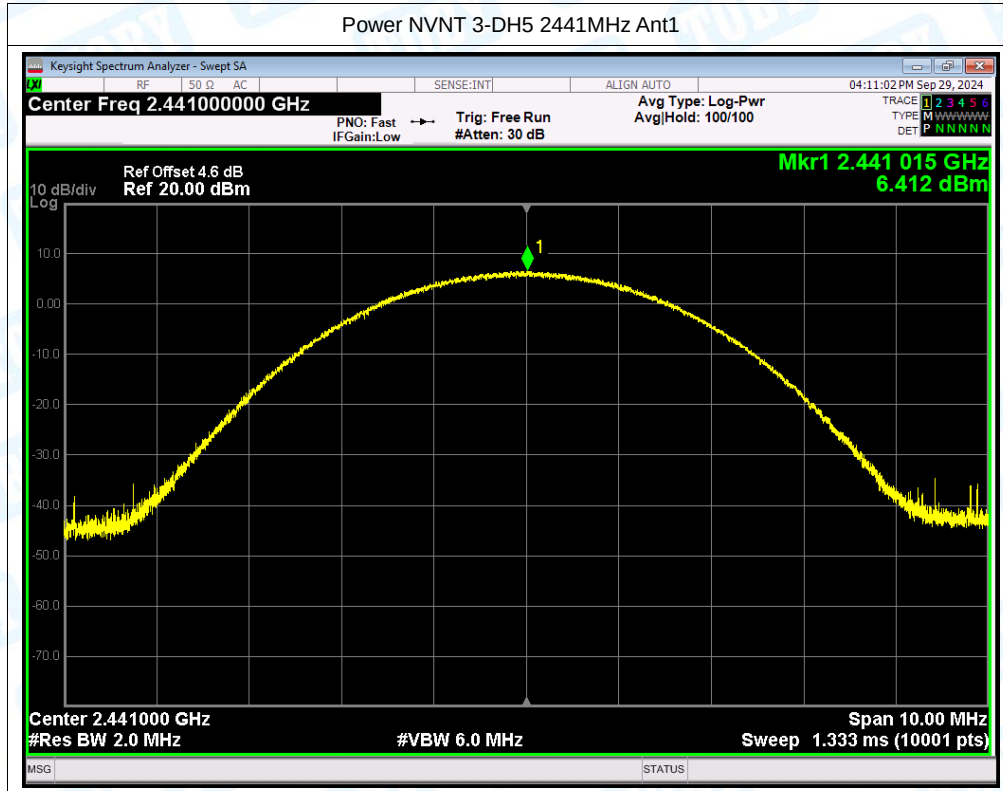


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



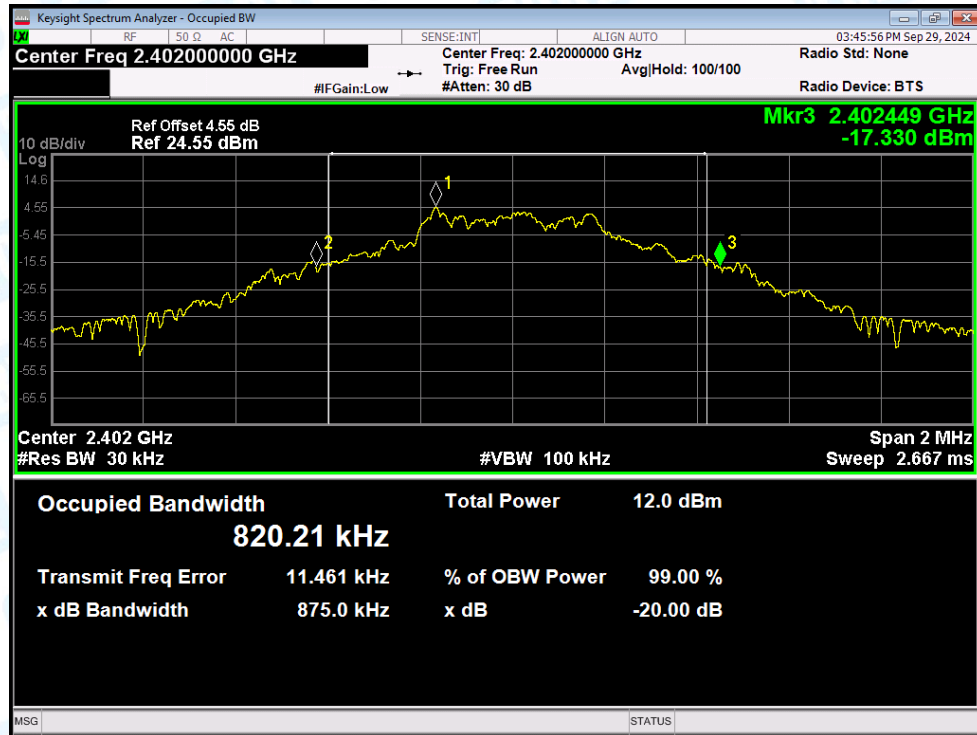


3. -20dB Bandwidth

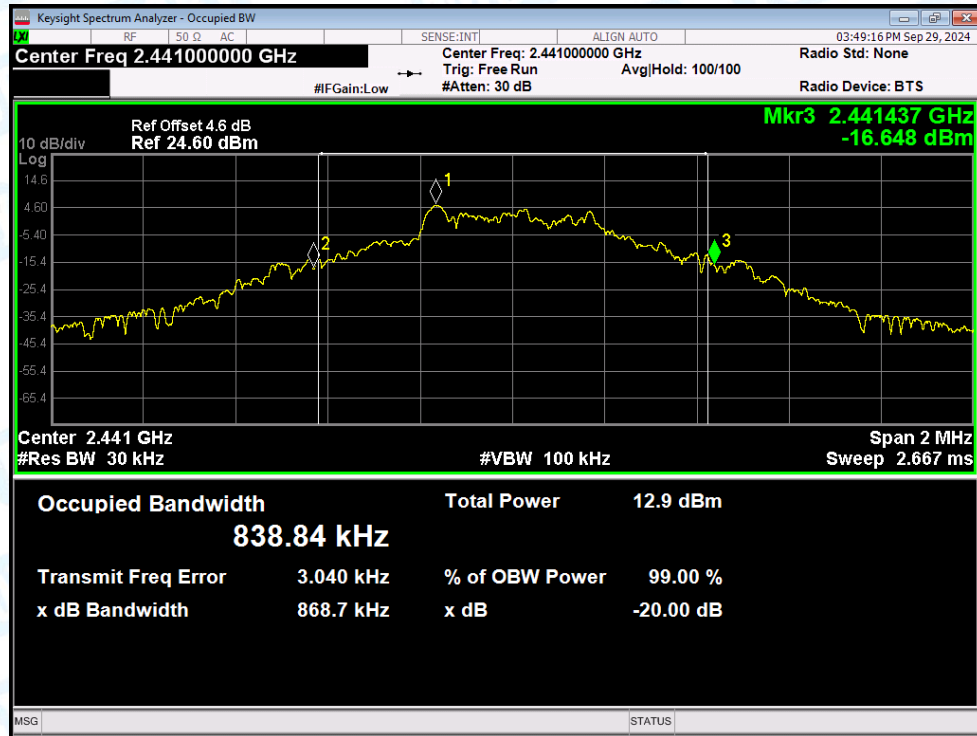
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.88	0	Pass
NVNT	1-DH1	2441	Ant1	0.87	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.27	0	Pass
NVNT	2-DH1	2441	Ant1	1.26	0	Pass
NVNT	2-DH1	2480	Ant1	1.27	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.26	0	Pass
NVNT	3-DH1	2480	Ant1	1.24	0	Pass

Test Graphs

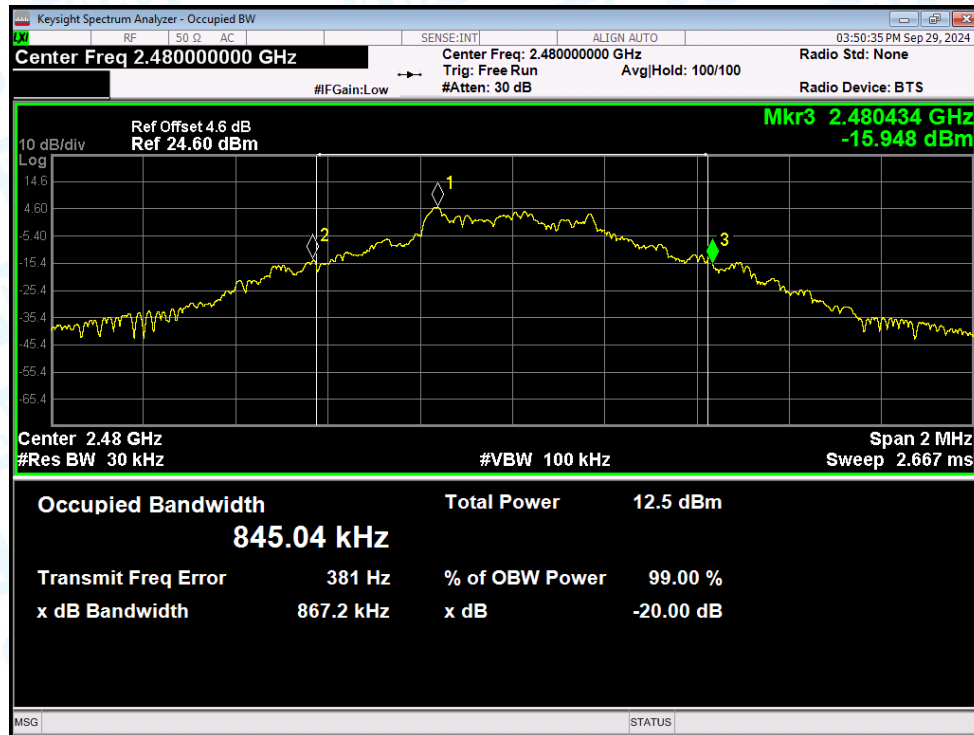
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



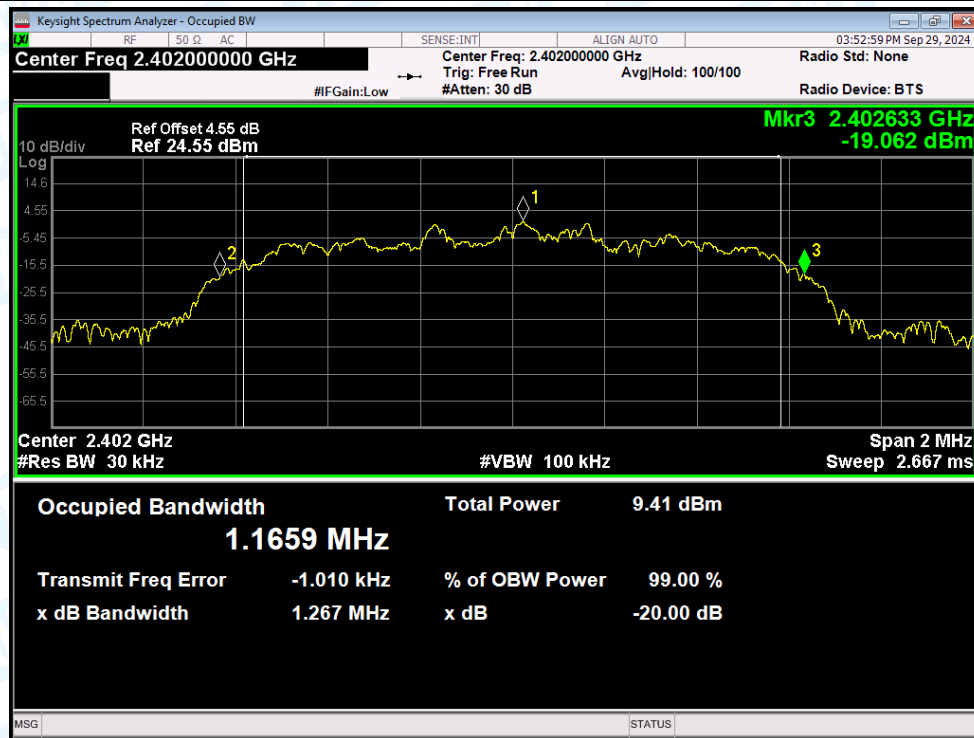
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



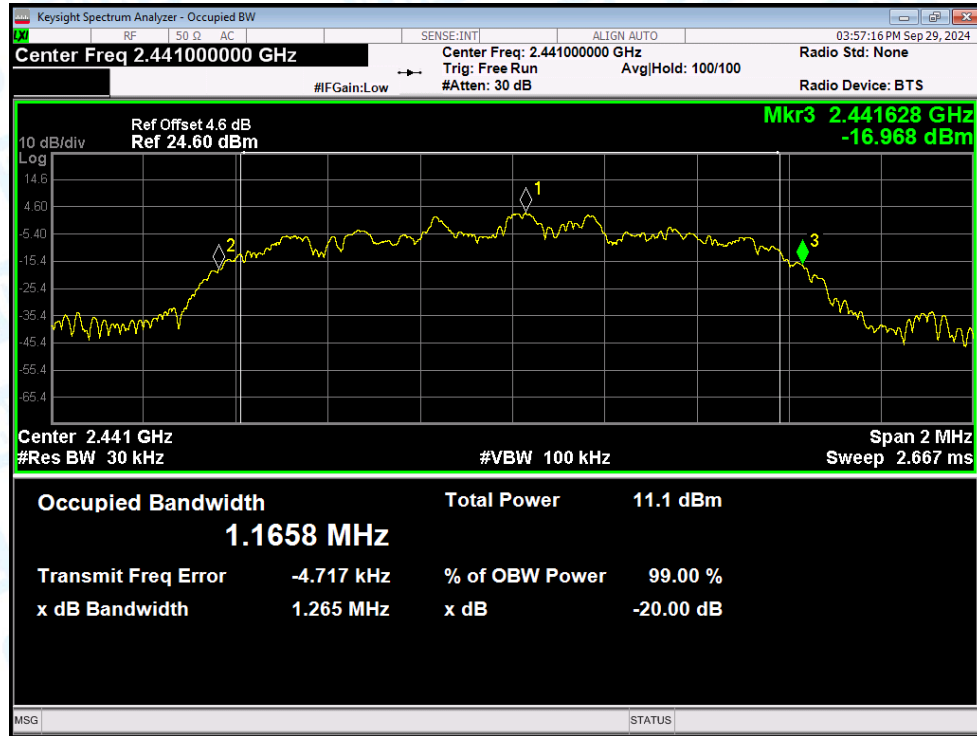
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



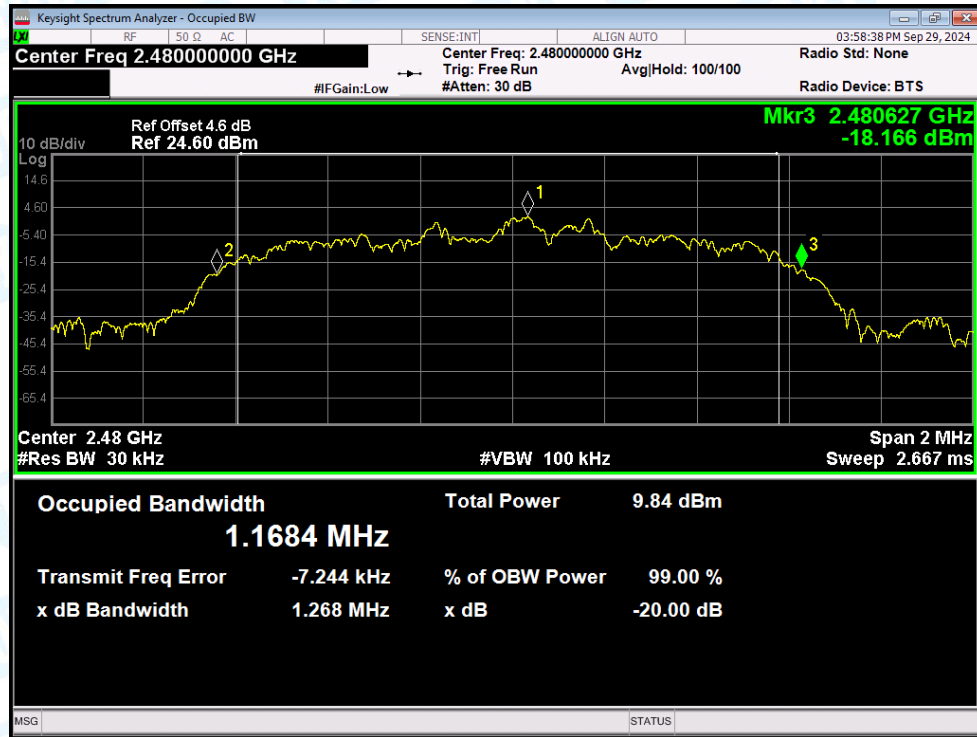
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



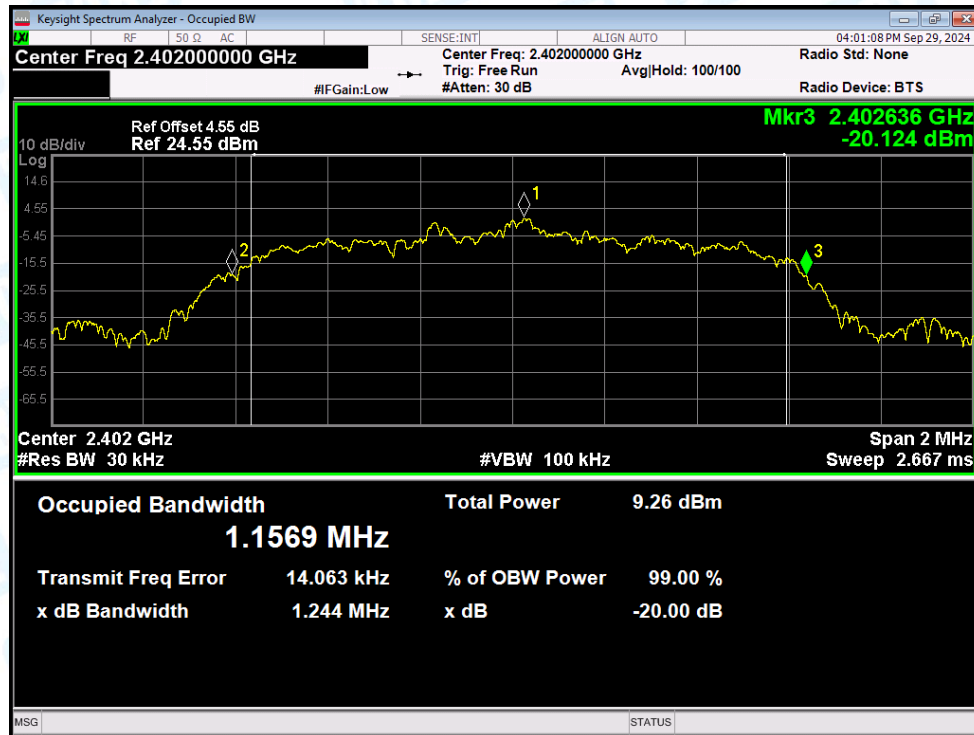
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



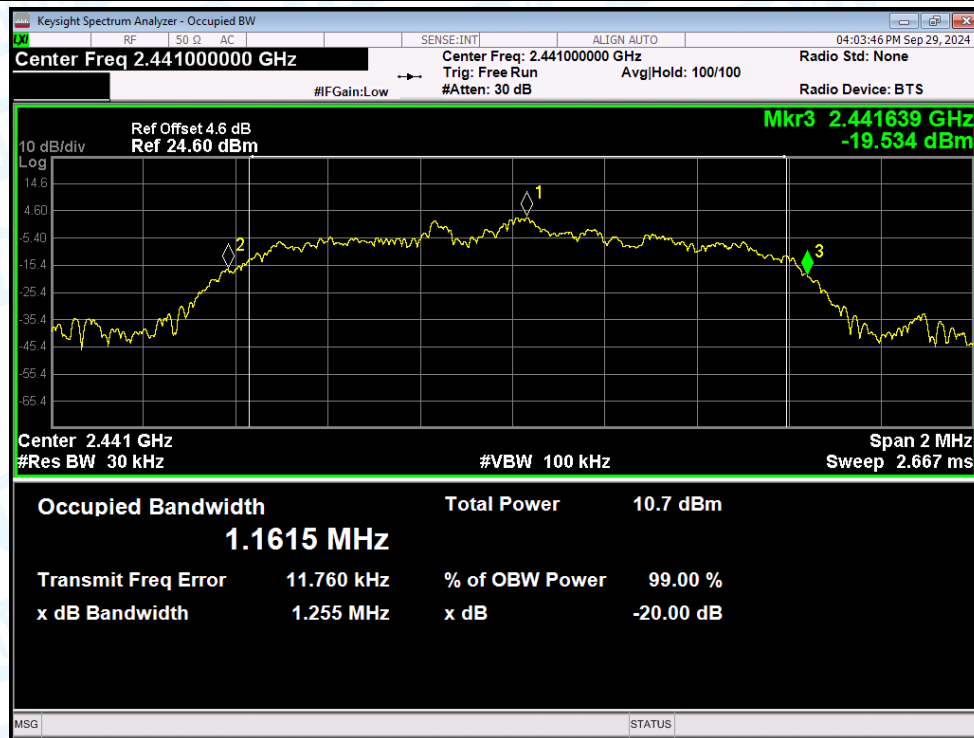
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

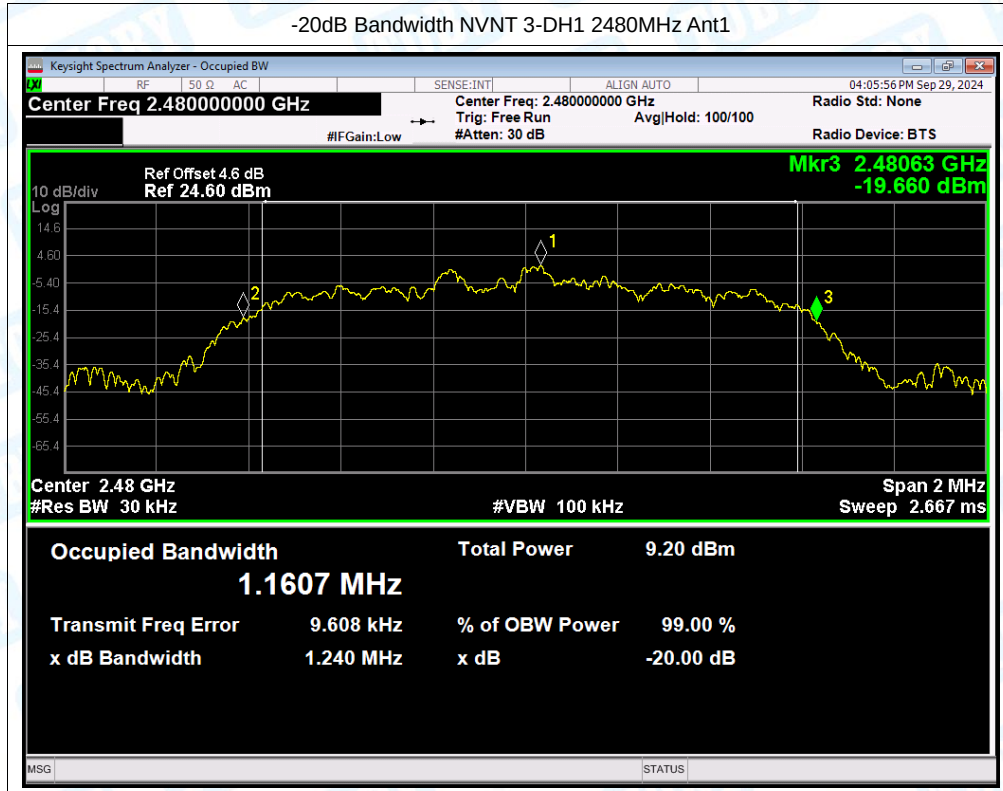


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



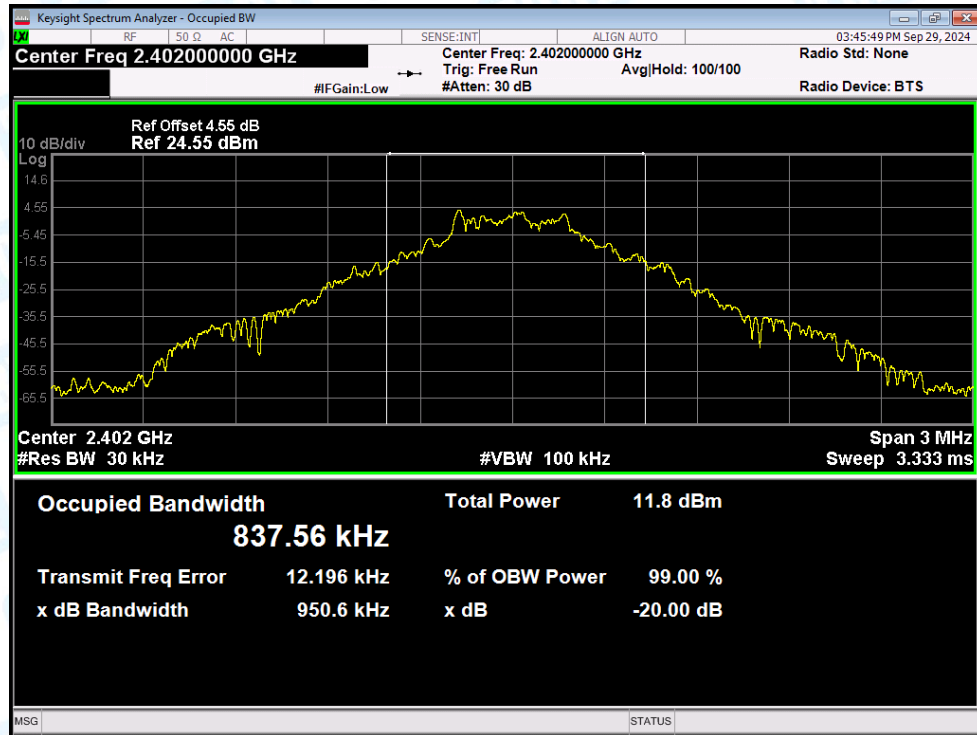


4. Occupied Channel Bandwidth

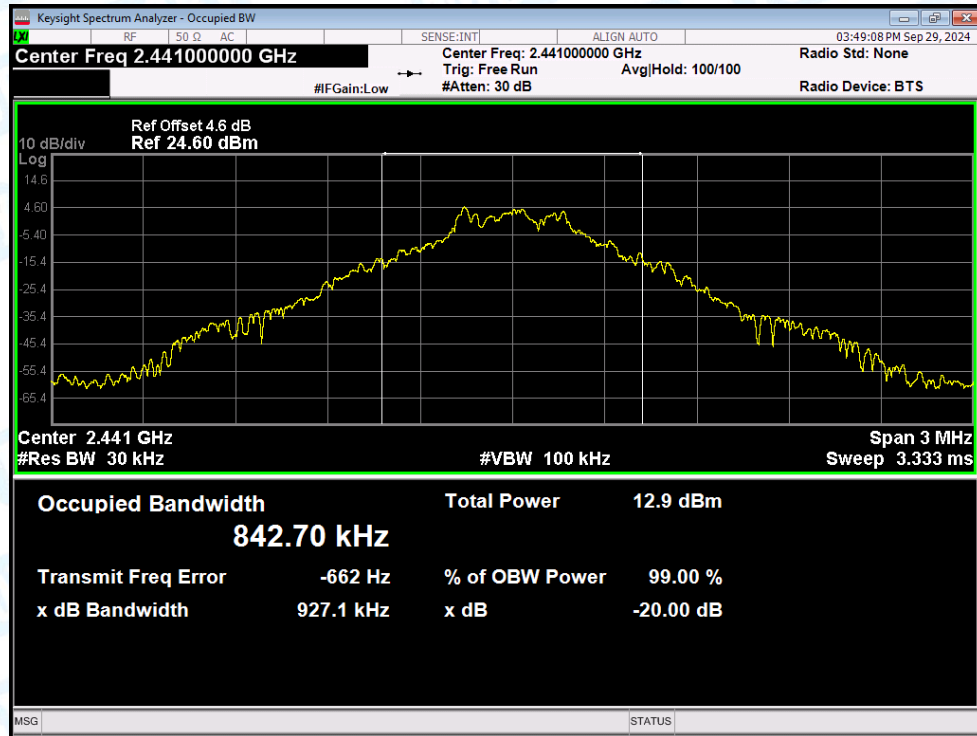
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.838
NVNT	1-DH1	2441	Ant1	0.843
NVNT	1-DH1	2480	Ant1	0.836
NVNT	2-DH1	2402	Ant1	1.165
NVNT	2-DH1	2441	Ant1	1.158
NVNT	2-DH1	2480	Ant1	1.174
NVNT	3-DH1	2402	Ant1	1.157
NVNT	3-DH1	2441	Ant1	1.161
NVNT	3-DH1	2480	Ant1	1.16

Test Graphs

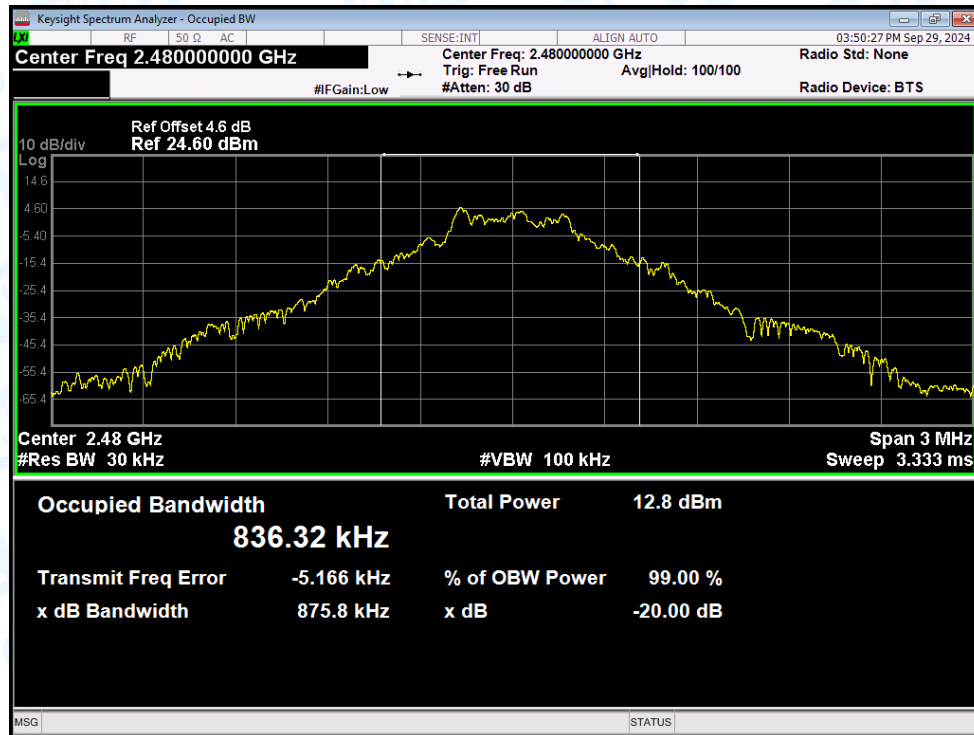
OBW NVNT 1-DH1 2402MHz Ant1



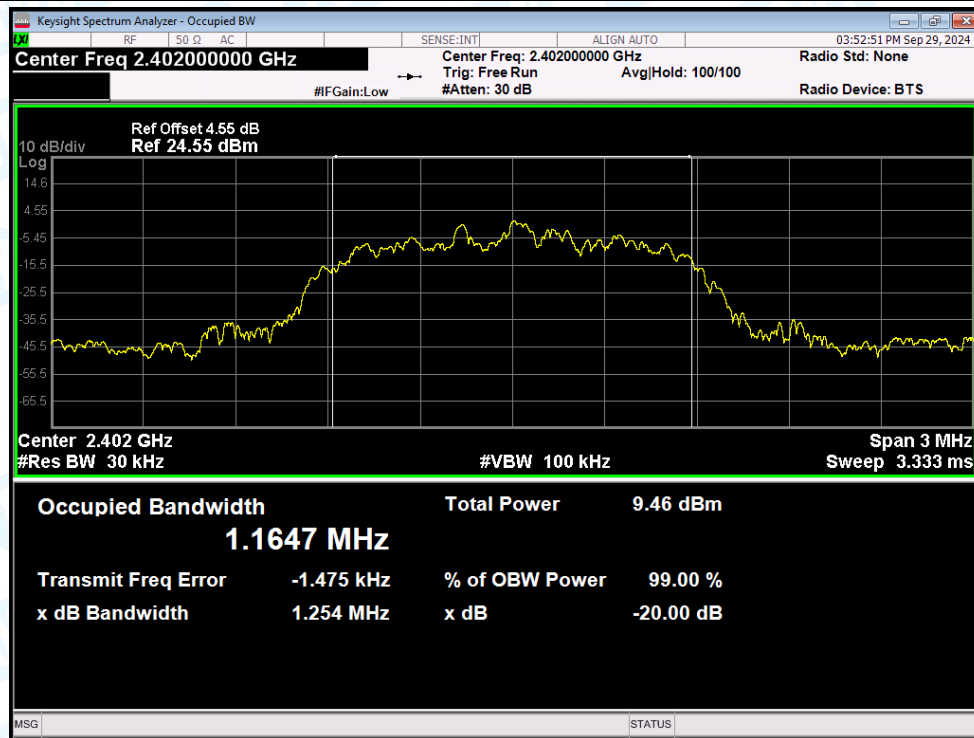
OBW NVNT 1-DH1 2441MHz Ant1



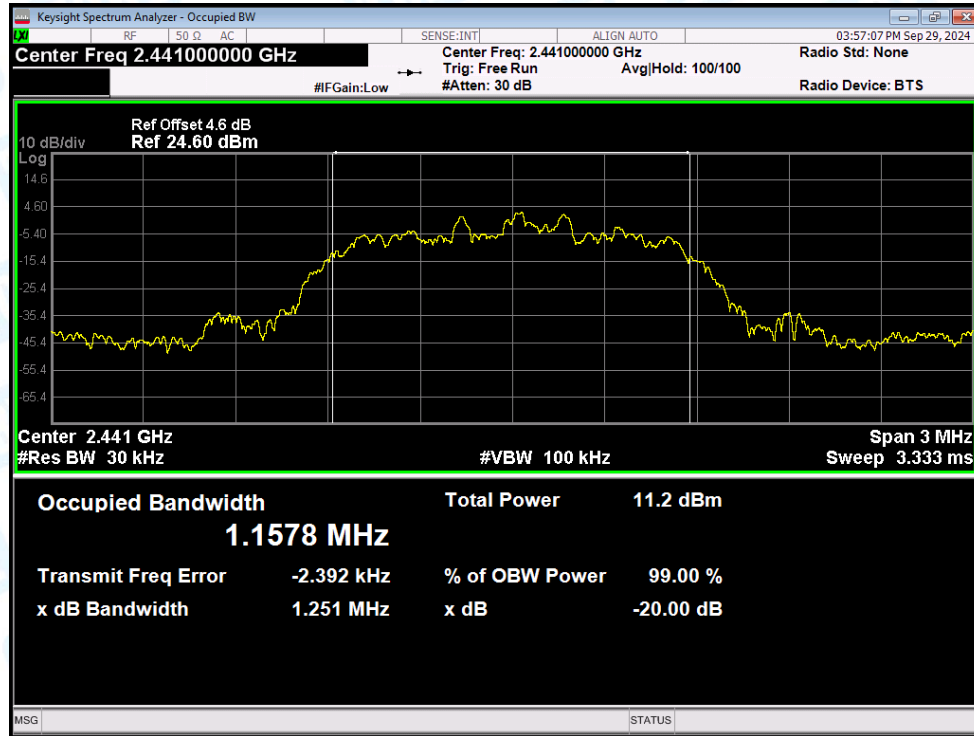
OBW NVNT 1-DH1 2480MHz Ant1



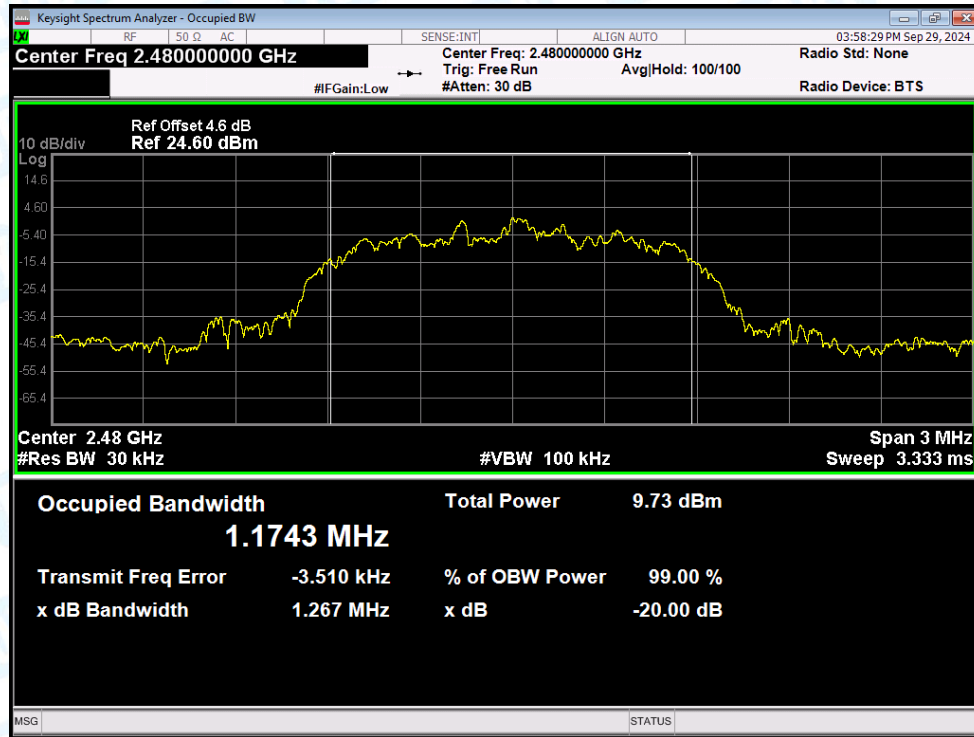
OBW NVNT 2-DH1 2402MHz Ant1



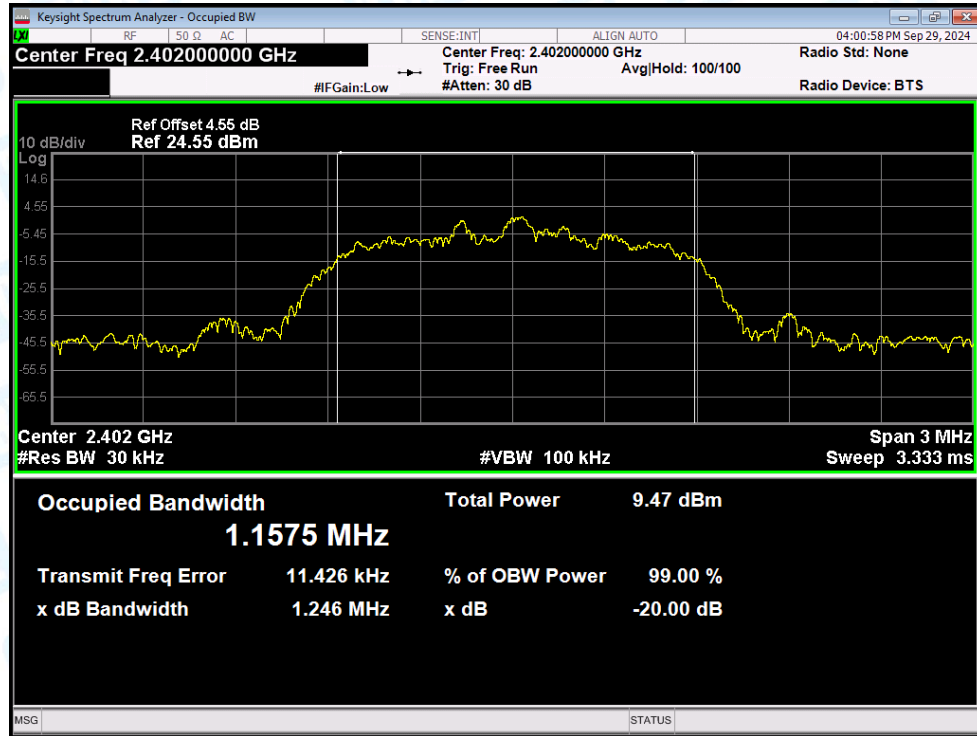
OBW NVNT 2-DH1 2441MHz Ant1



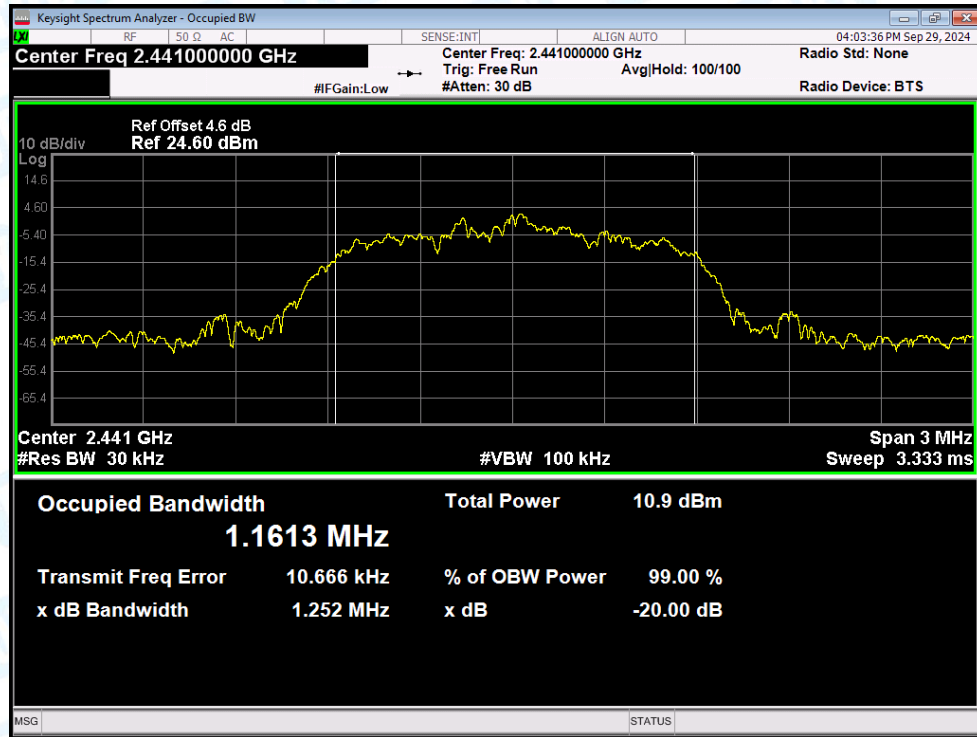
OBW NVNT 2-DH1 2480MHz Ant1

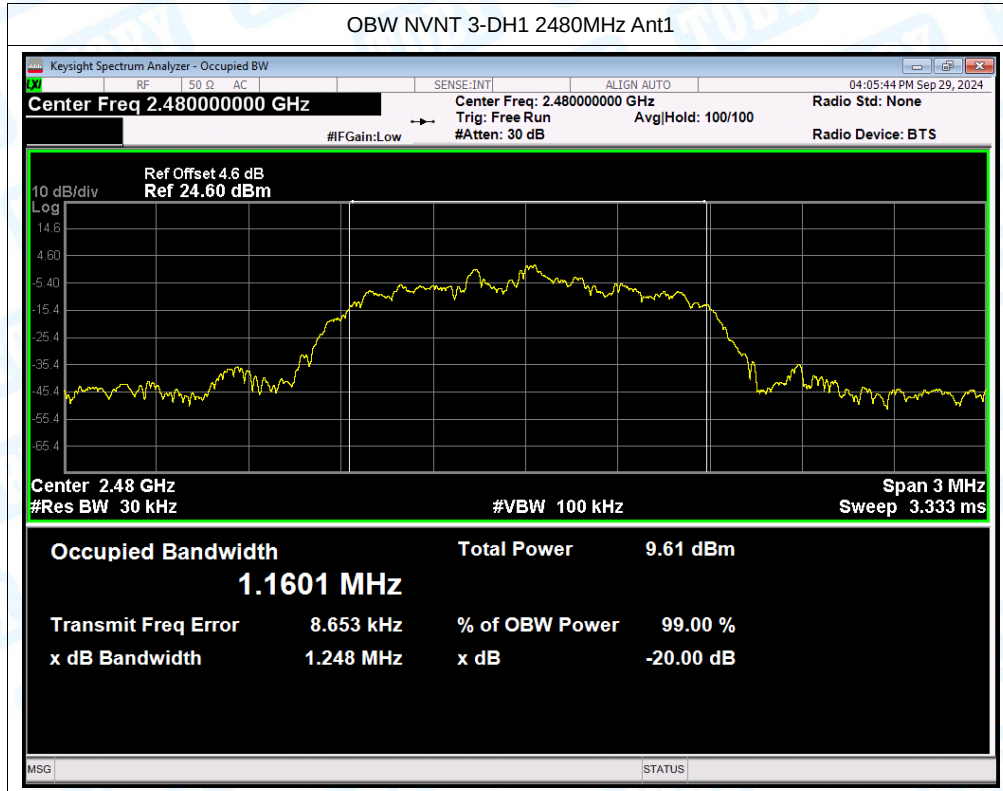


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



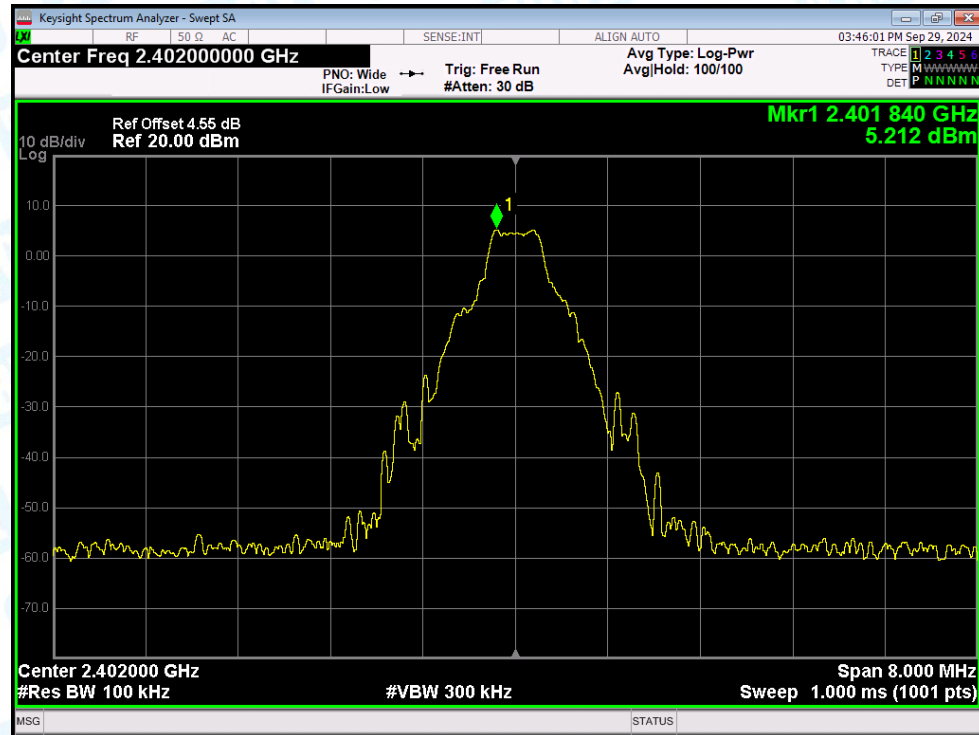


5. Band Edge

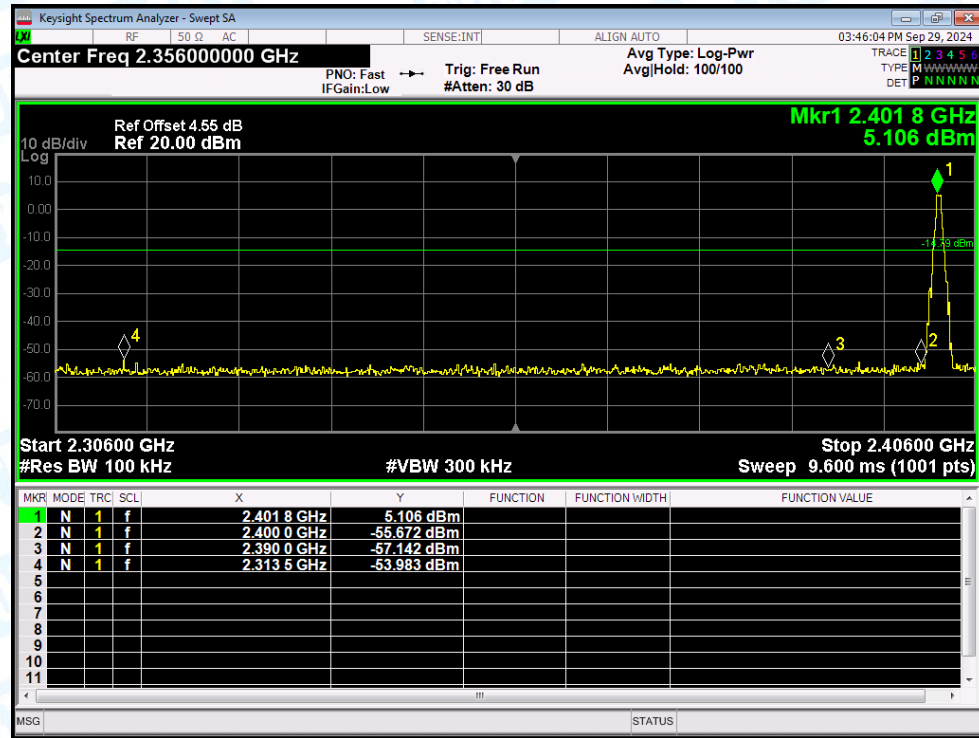
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-59.19	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-60.54	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-57.47	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-58.15	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-56.37	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-56.39	-20	Pass

Test Graphs

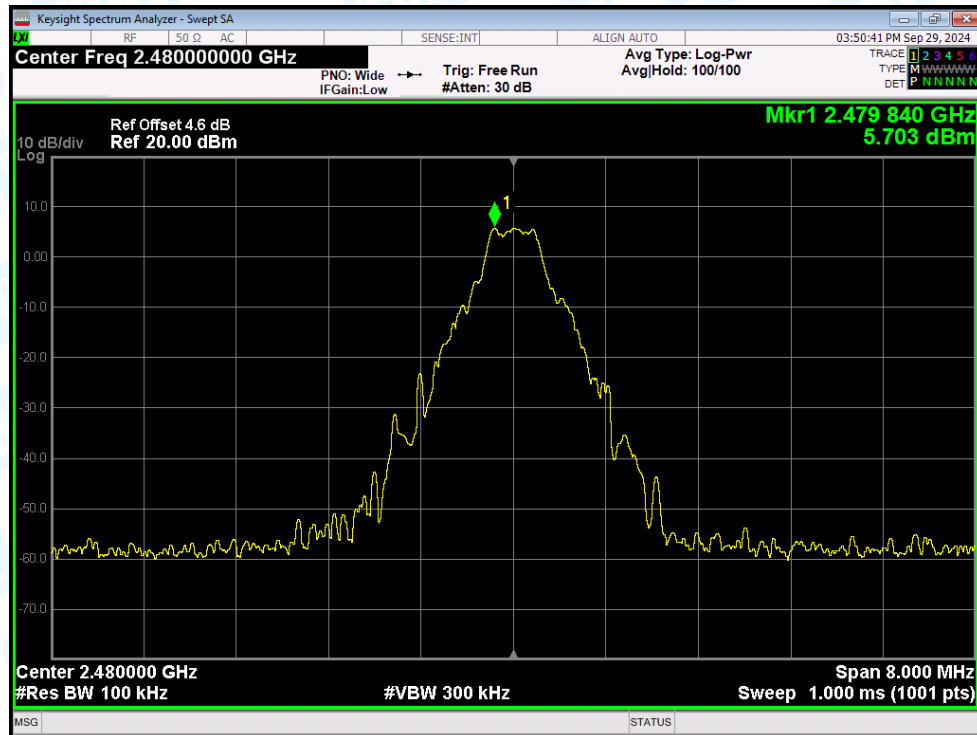
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



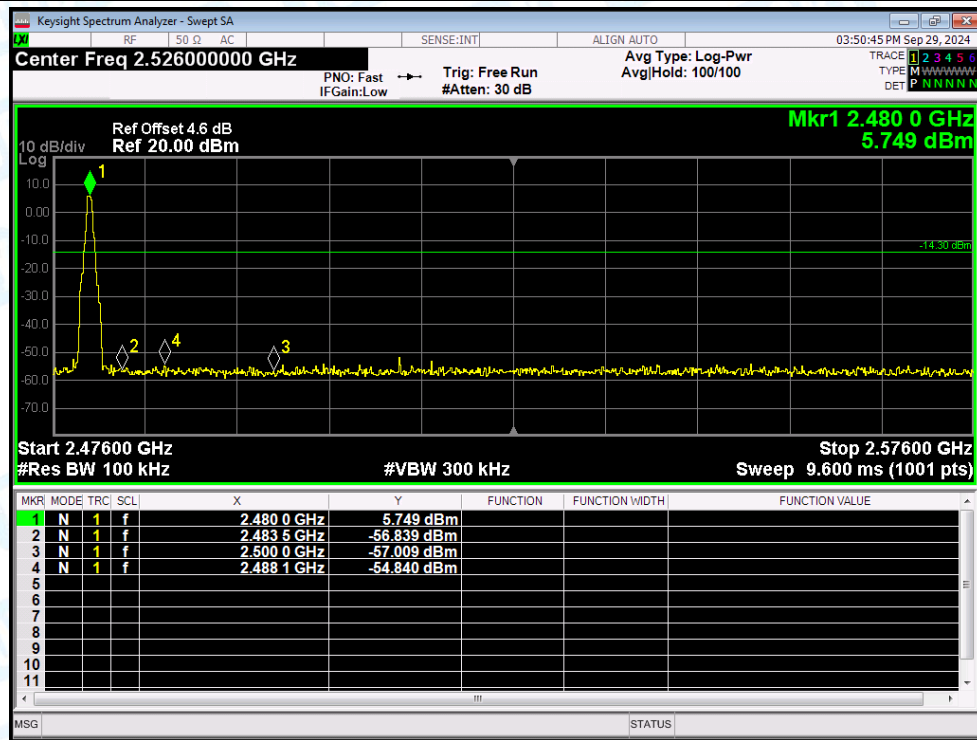
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



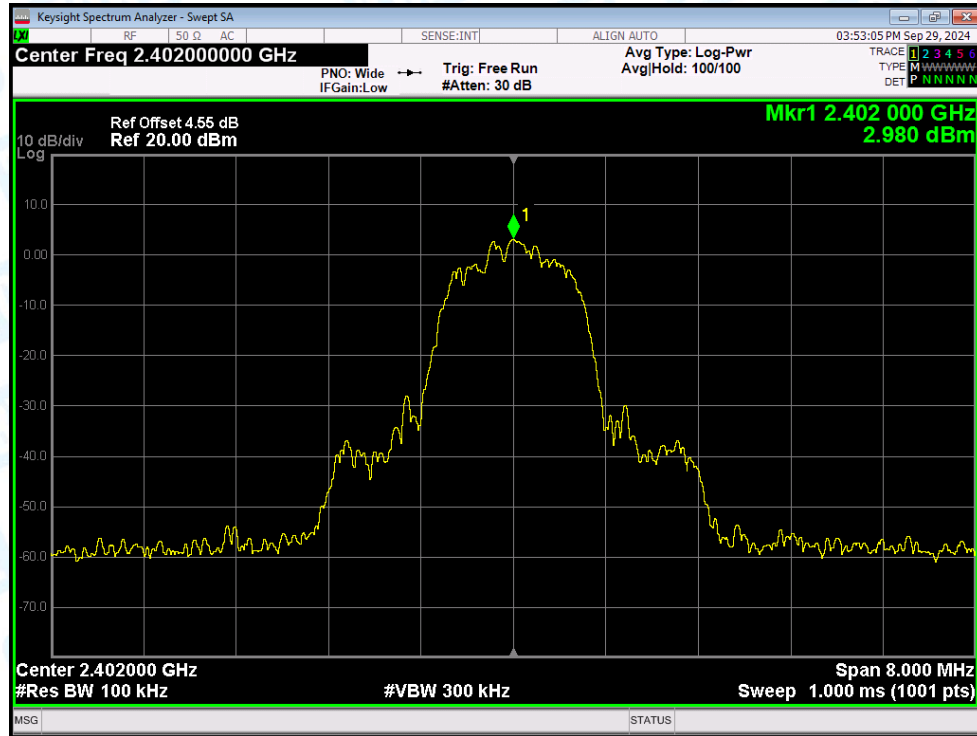
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



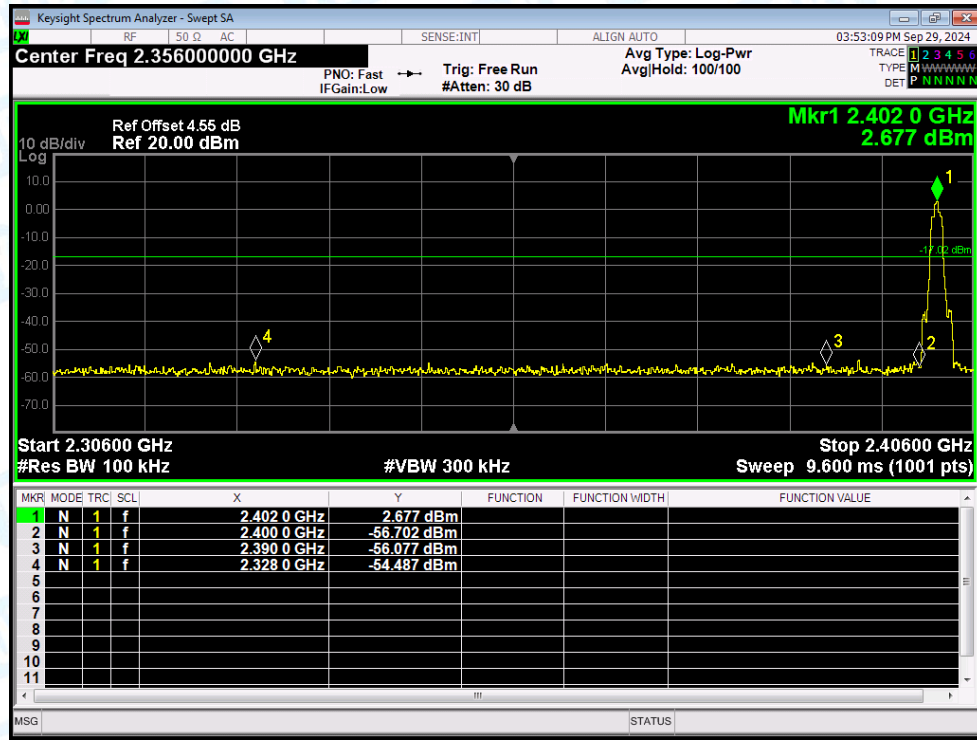
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



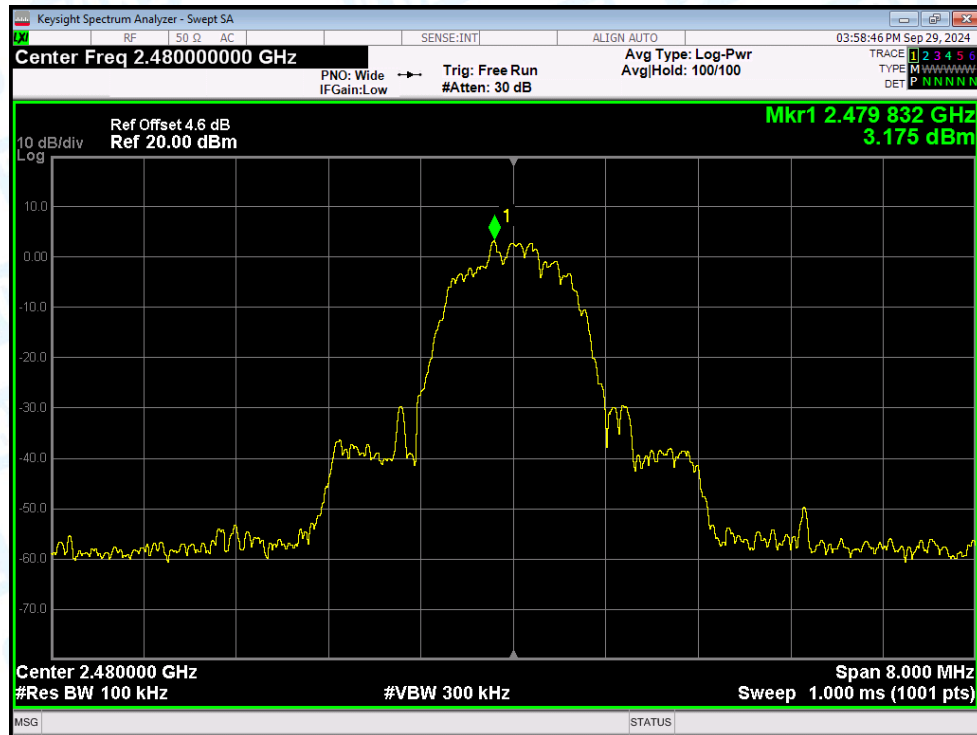
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



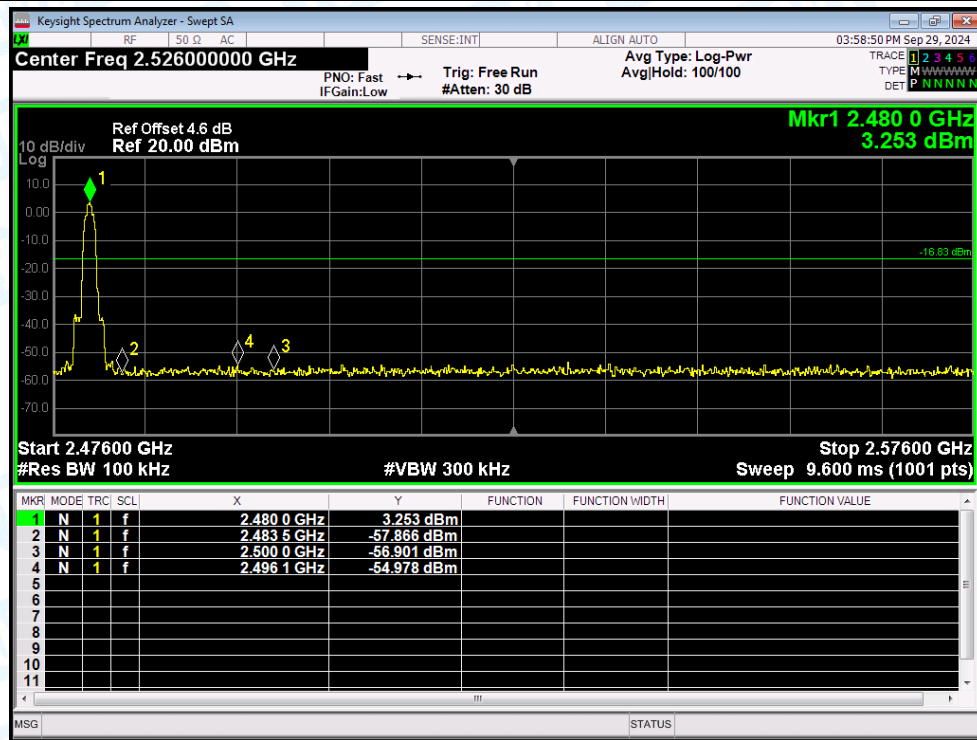
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



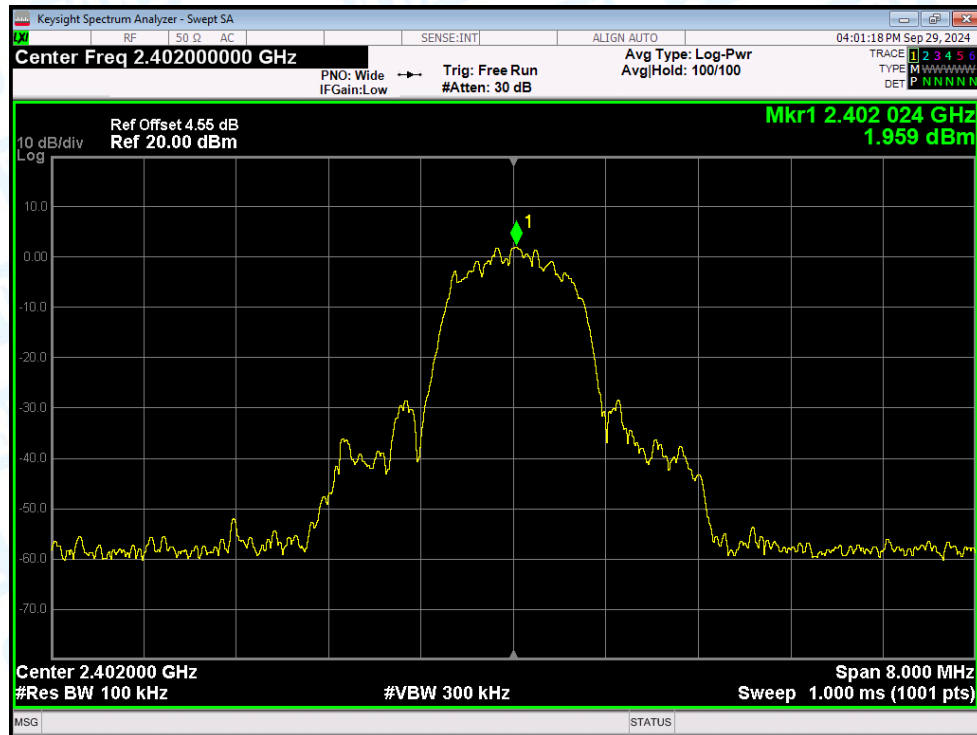
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



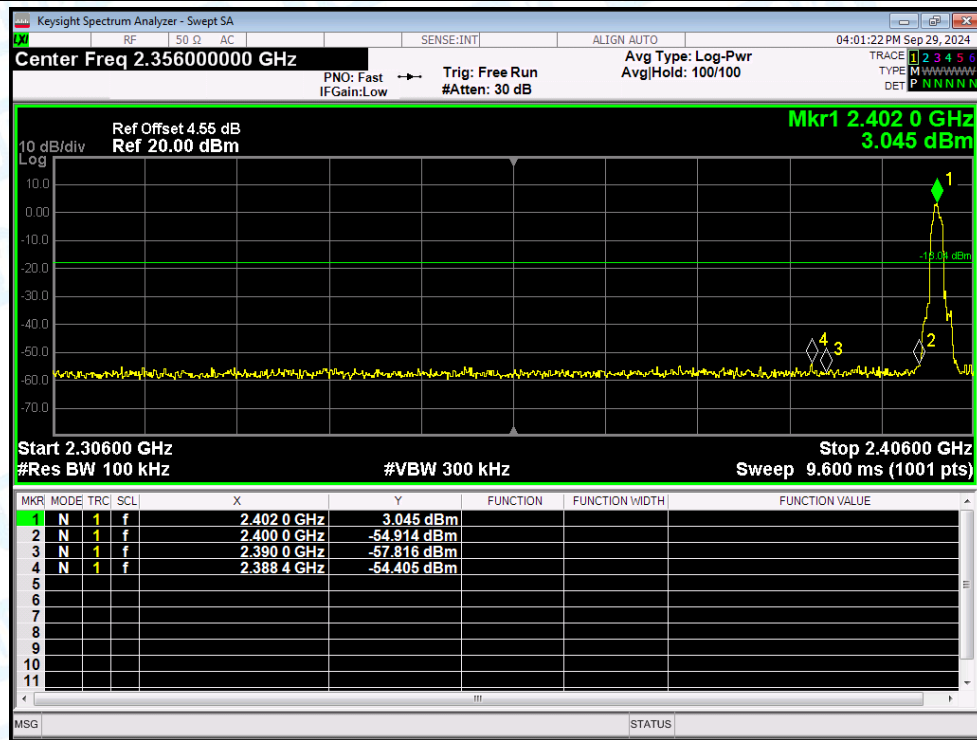
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



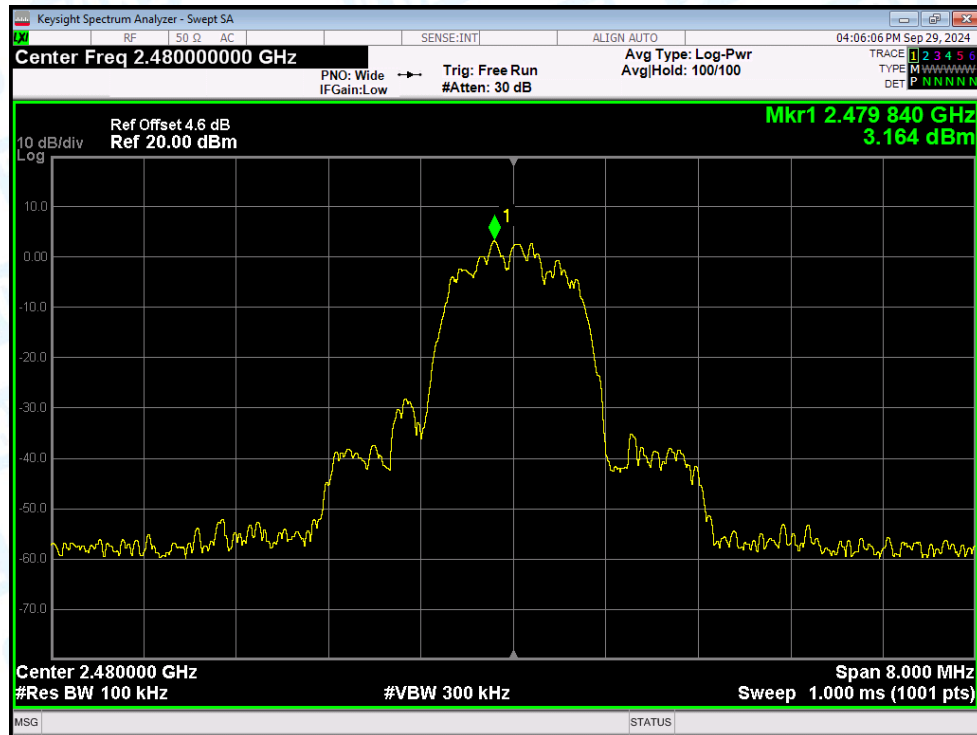
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



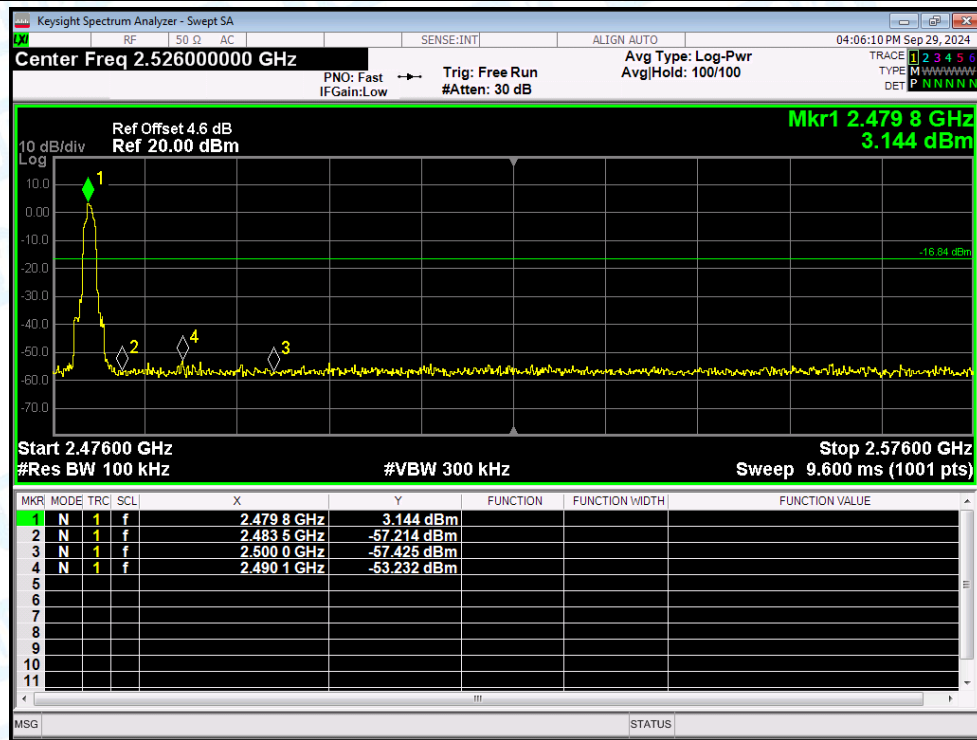
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

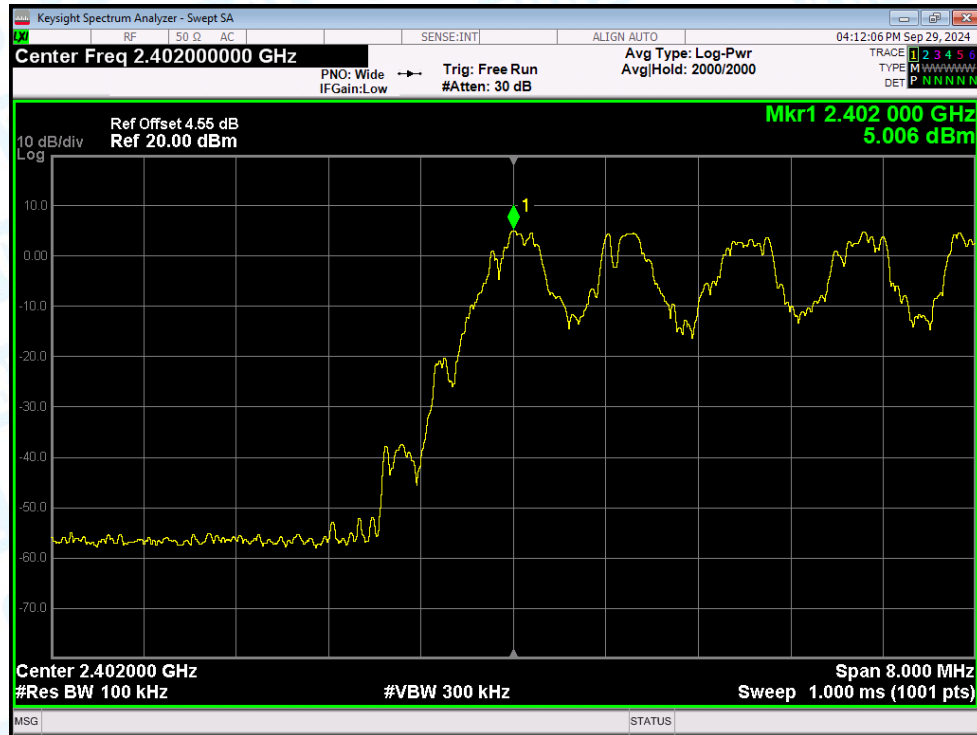


6. Band Edge(Hopping)

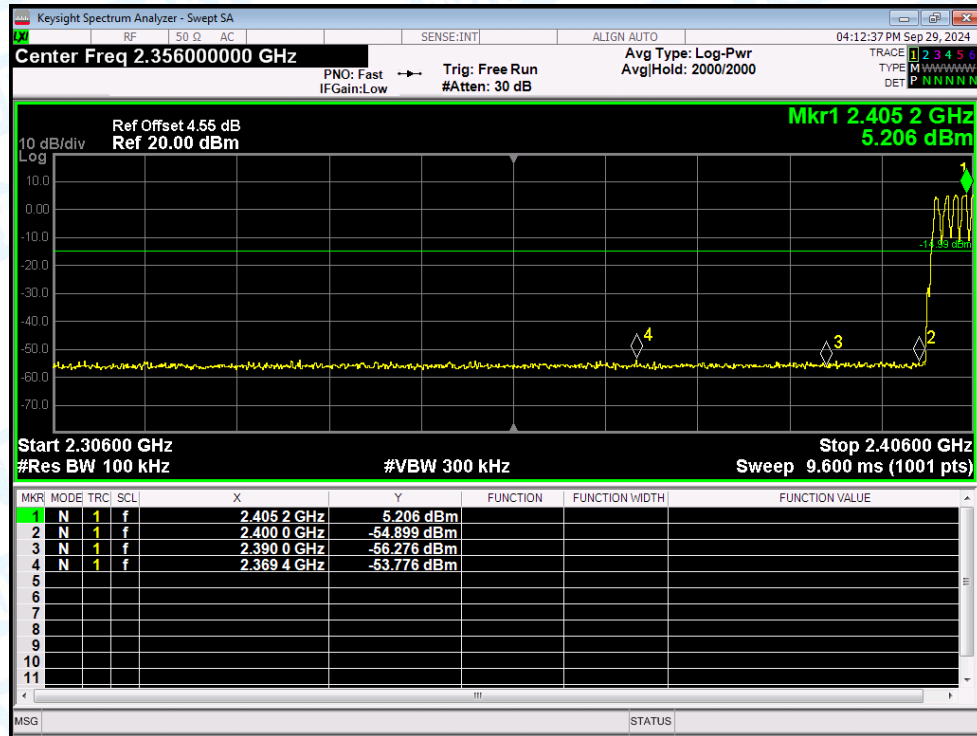
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-58.79	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-58.97	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-56.75	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-56.85	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.08	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-57.11	-20	Pass

Test Graphs

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



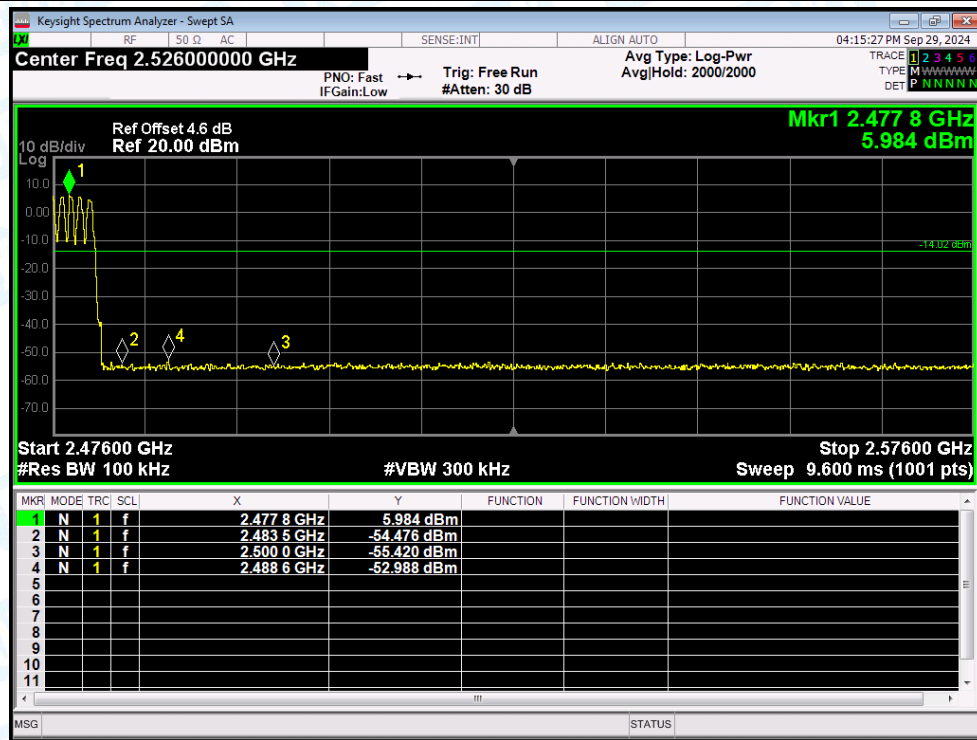
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



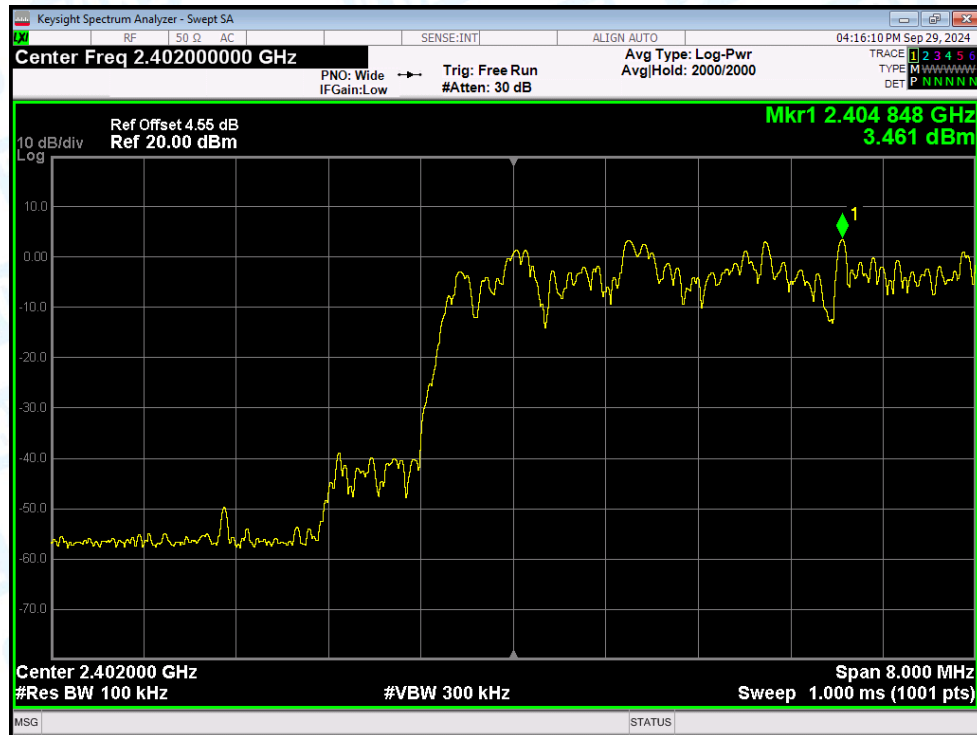
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



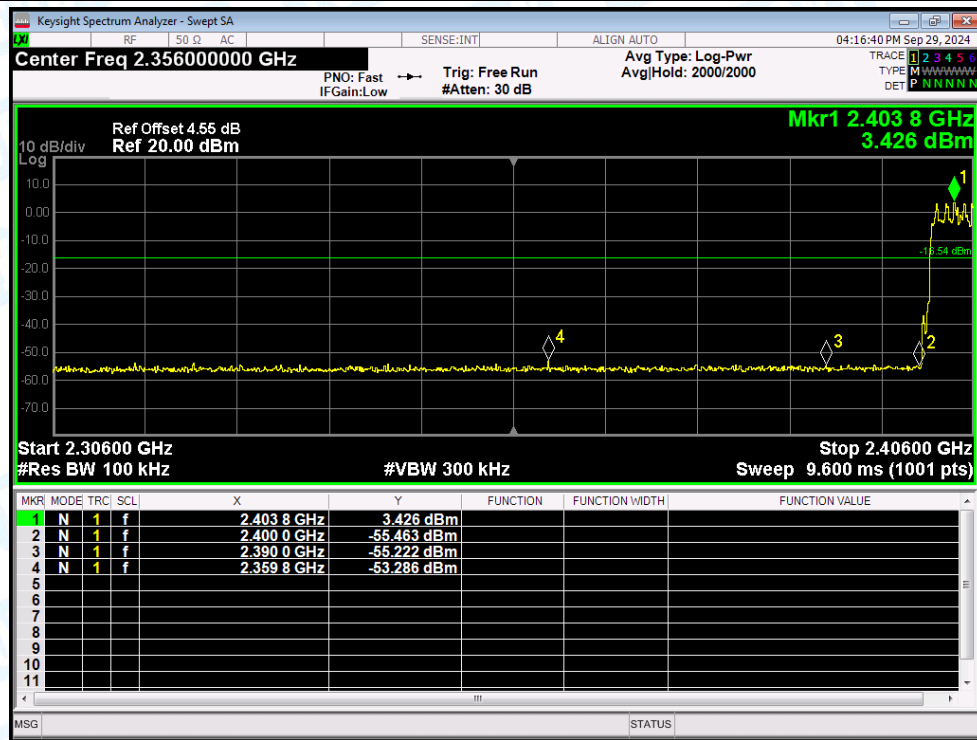
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



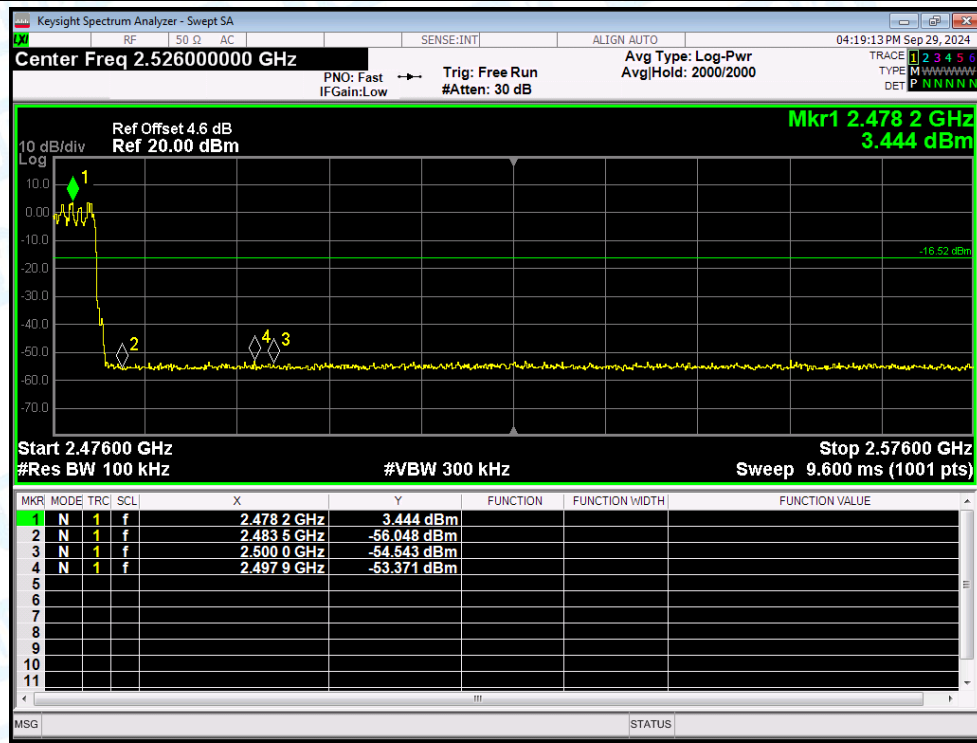
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



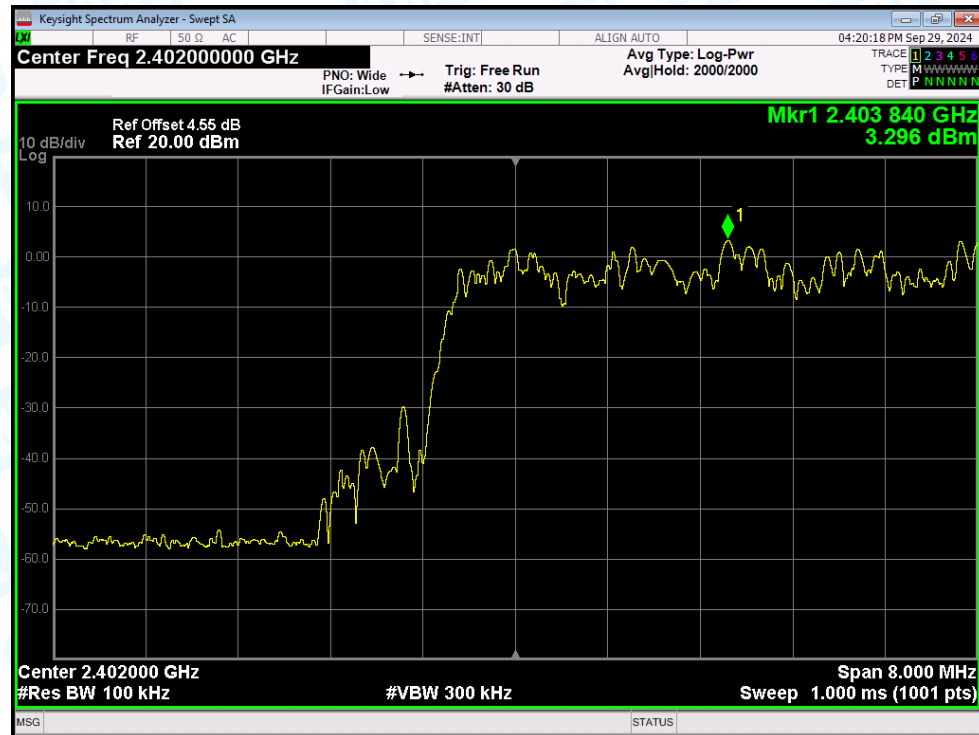
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



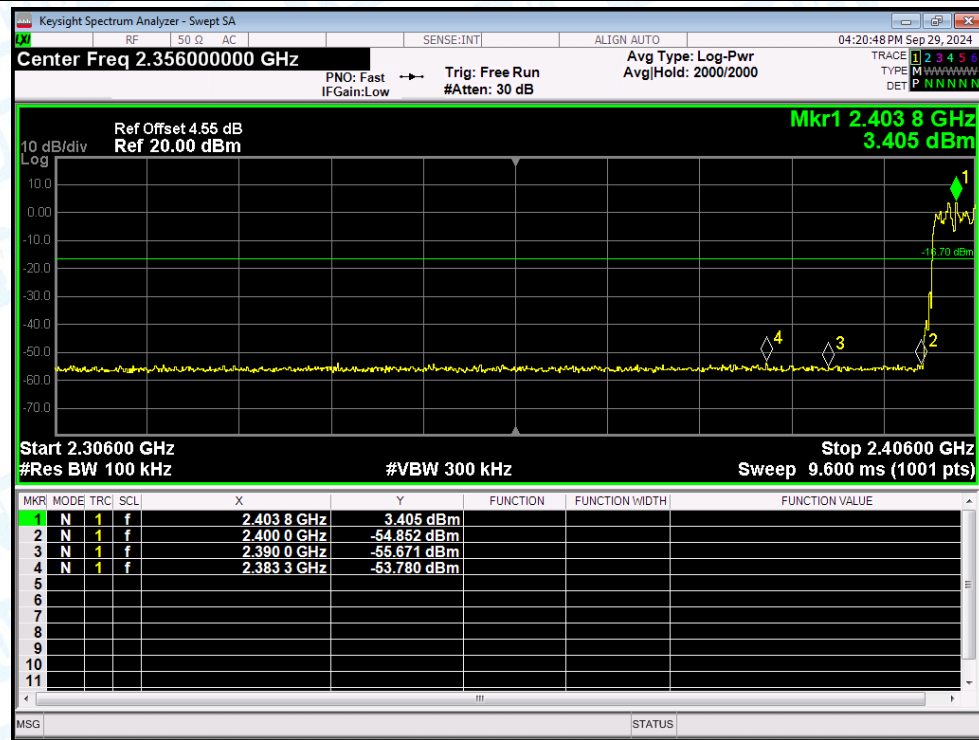
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



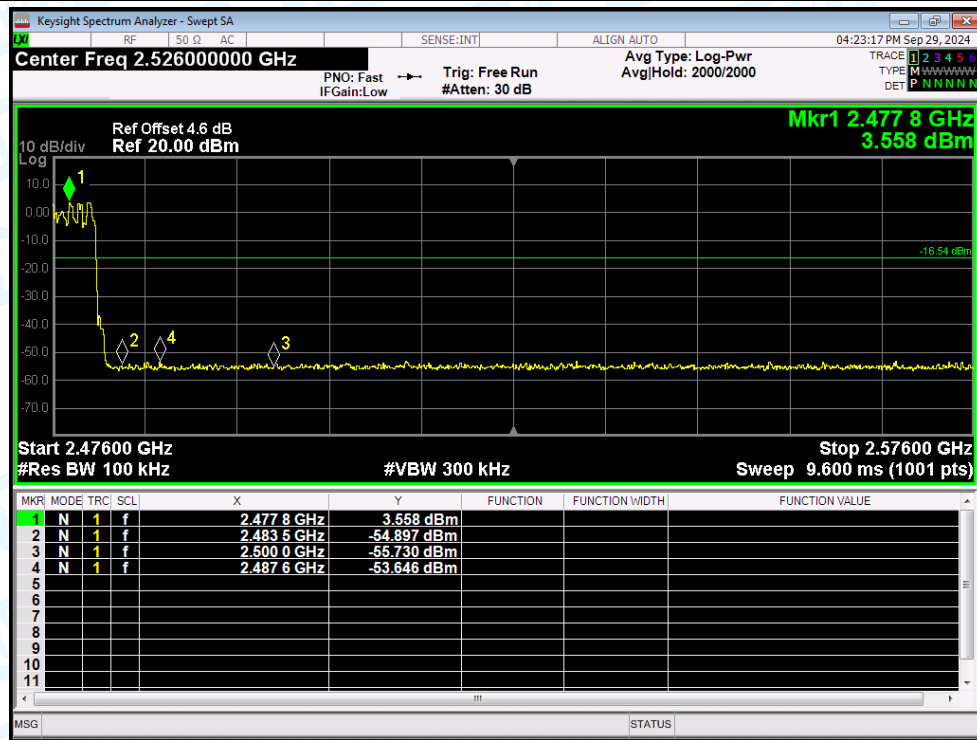
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

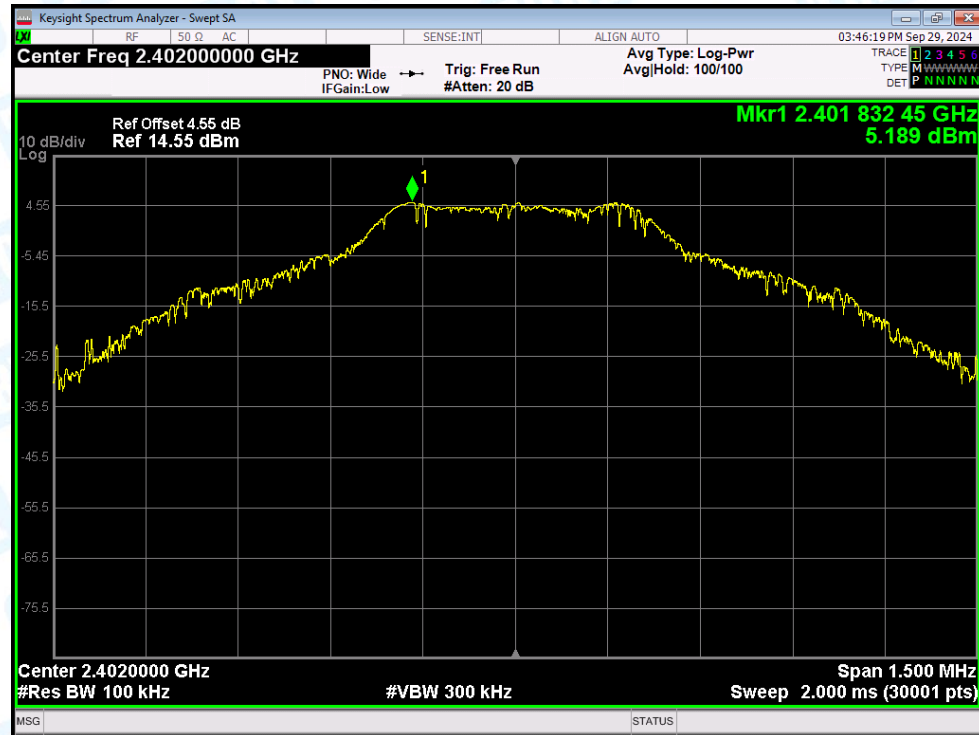


7. Conducted RF Spurious Emission

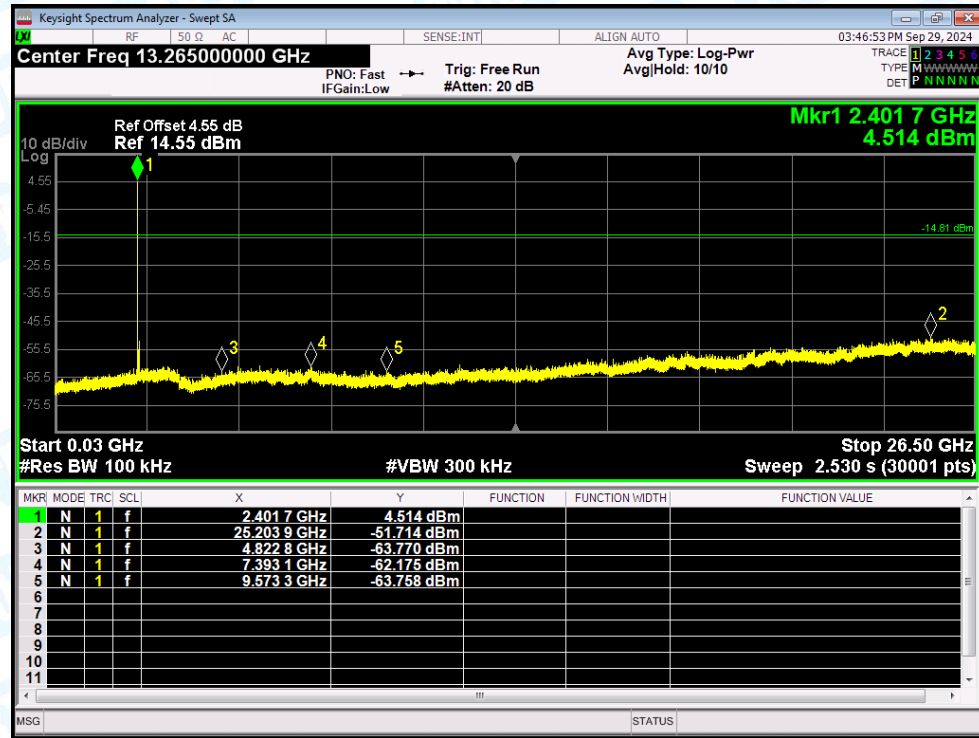
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-56.9	-20	Pass
NVNT	1-DH1	2441	Ant1	-57.32	-20	Pass
NVNT	1-DH1	2480	Ant1	-56.05	-20	Pass
NVNT	2-DH1	2402	Ant1	-54.03	-20	Pass
NVNT	2-DH1	2441	Ant1	-54.74	-20	Pass
NVNT	2-DH1	2480	Ant1	-53.03	-20	Pass
NVNT	3-DH1	2402	Ant1	-53.93	-20	Pass
NVNT	3-DH1	2441	Ant1	-55.45	-20	Pass
NVNT	3-DH1	2480	Ant1	-54.23	-20	Pass

Test Graphs

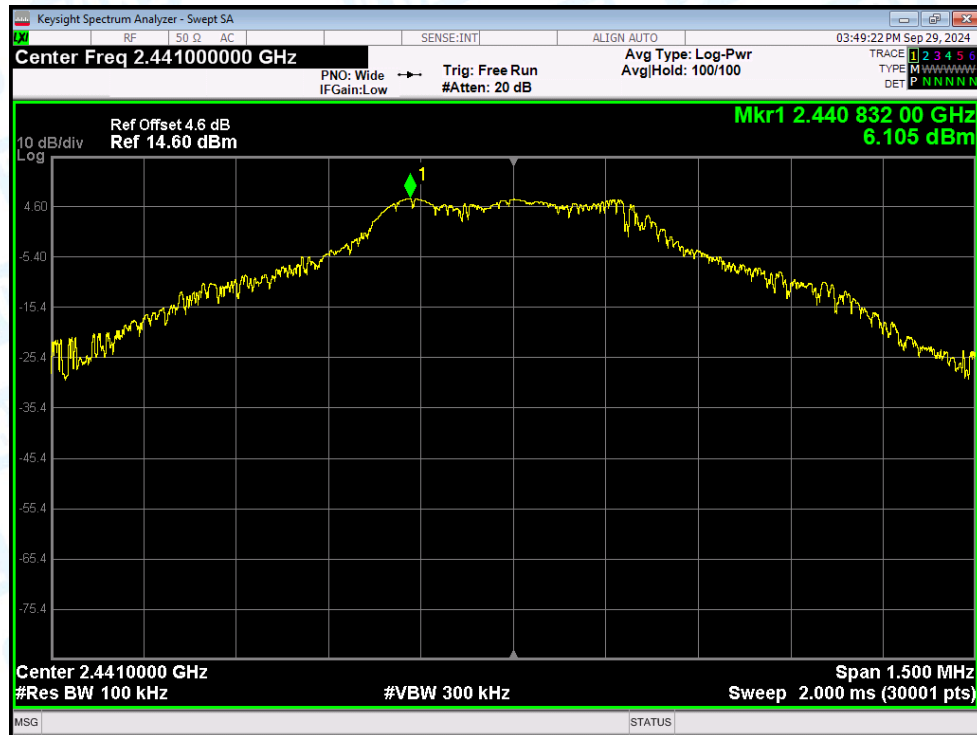
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



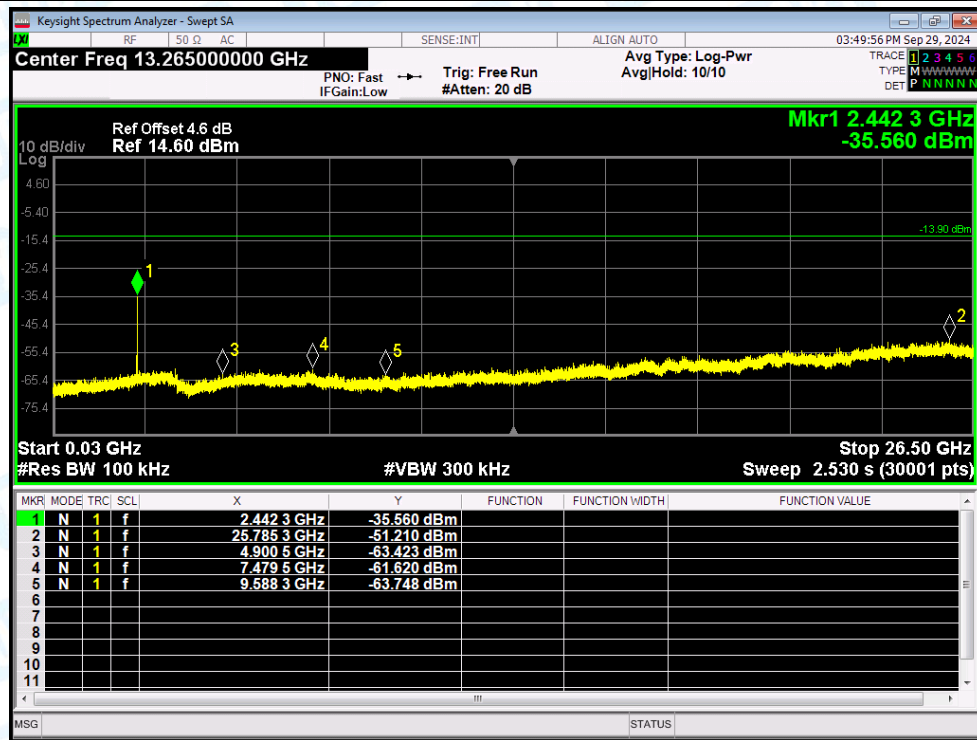
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



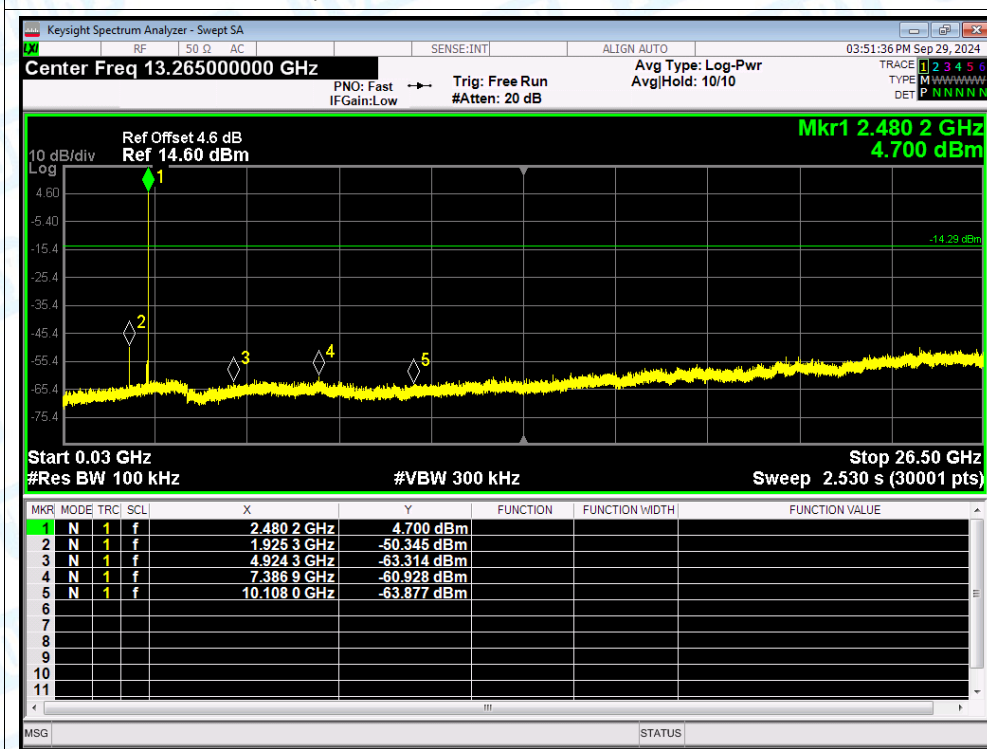
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



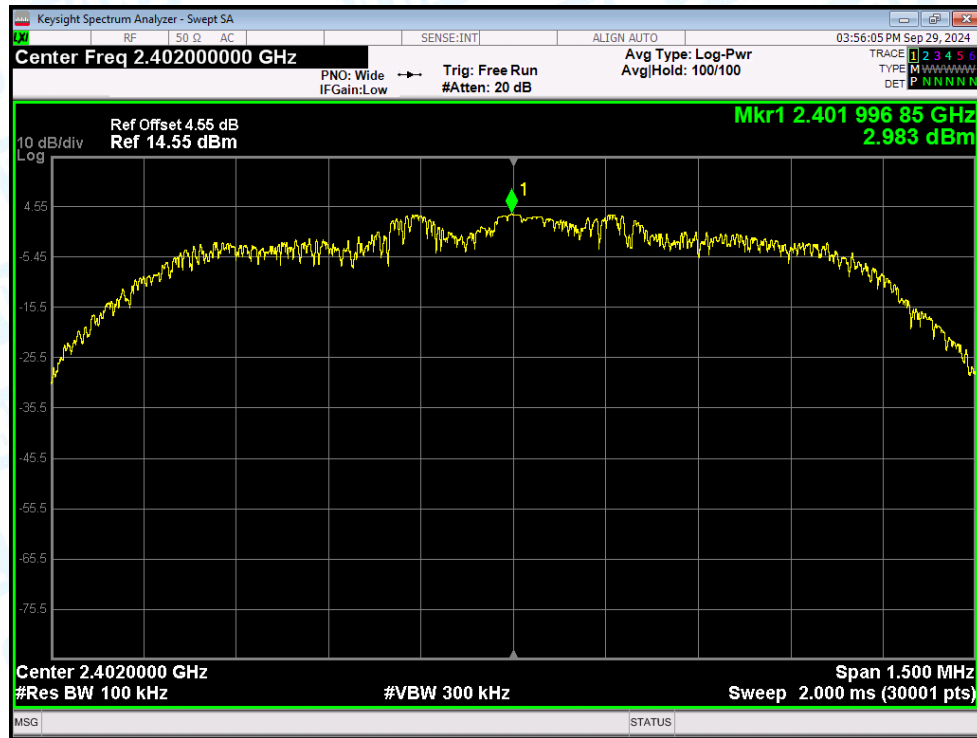
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



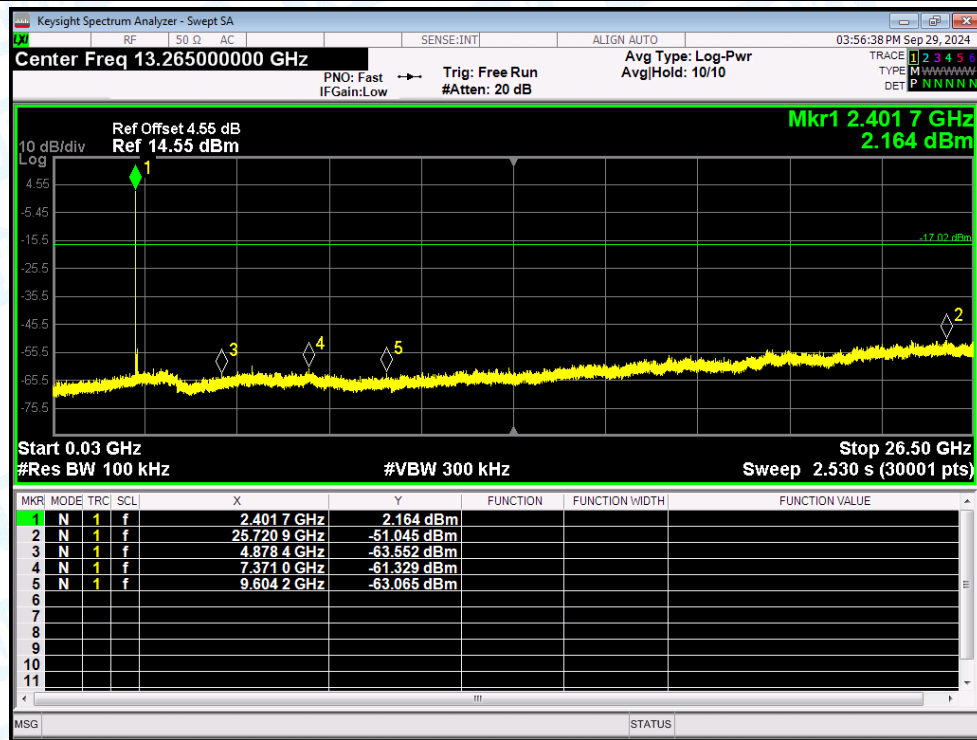
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



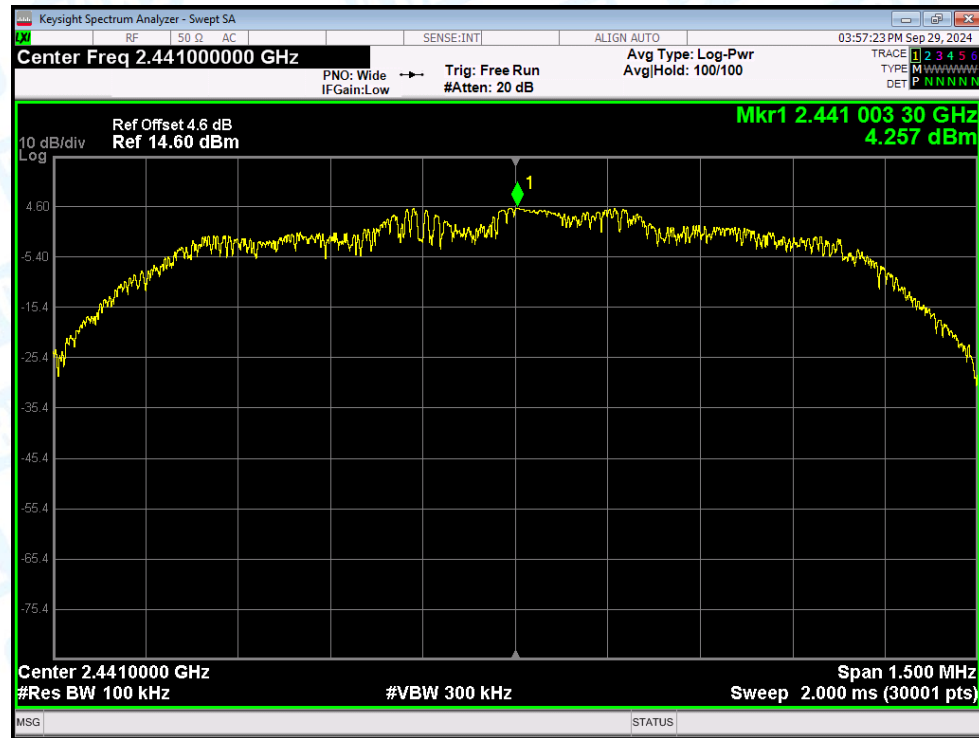
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



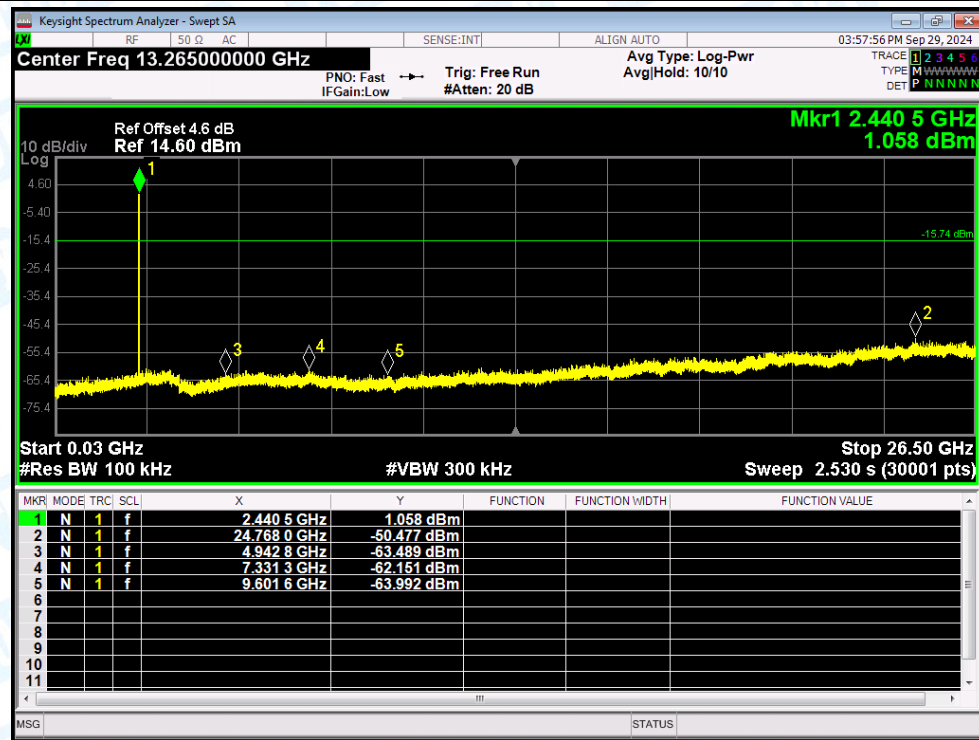
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



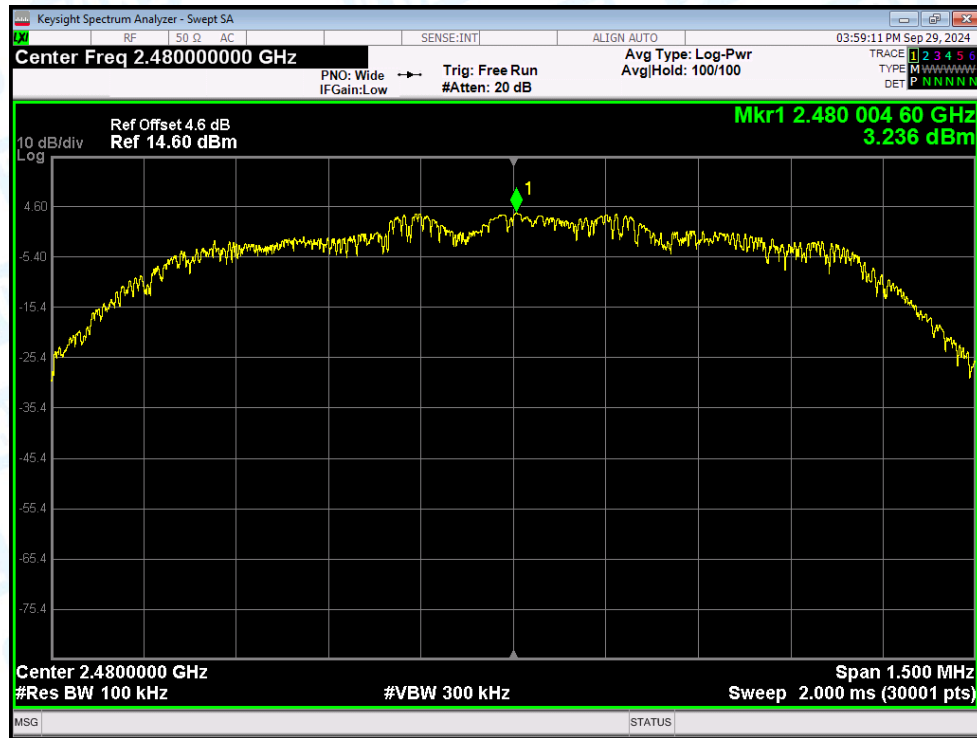
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



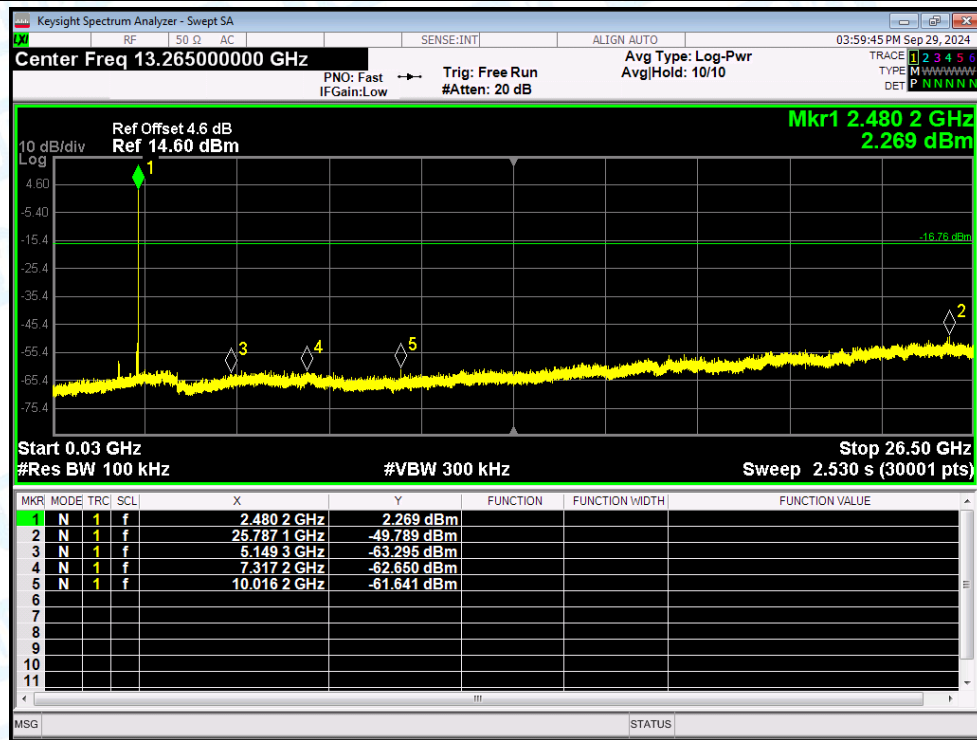
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



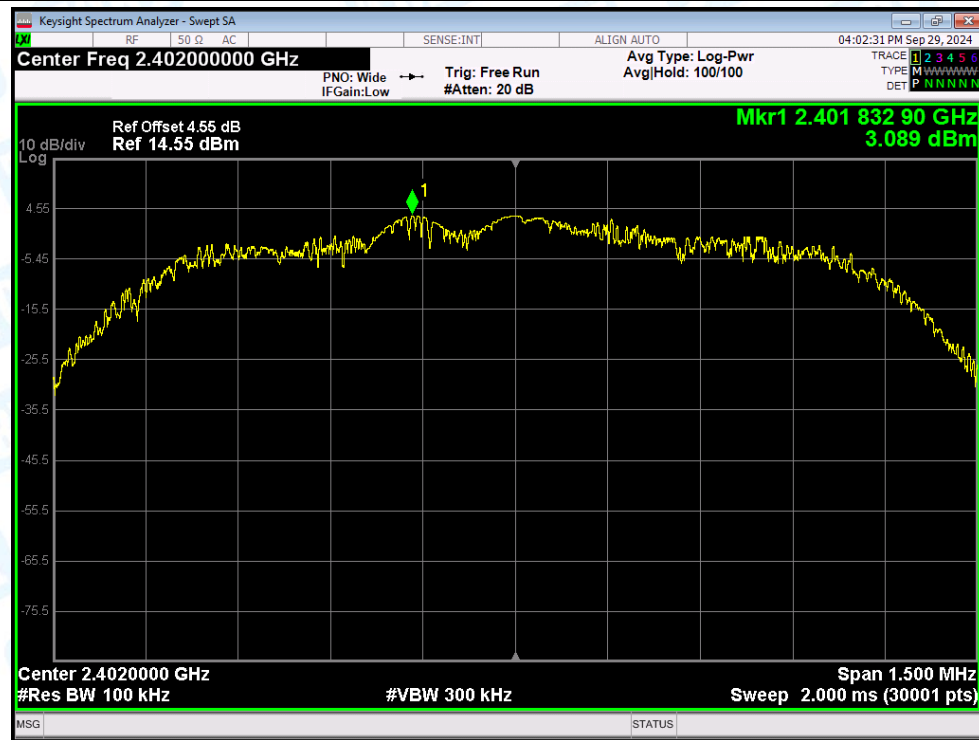
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



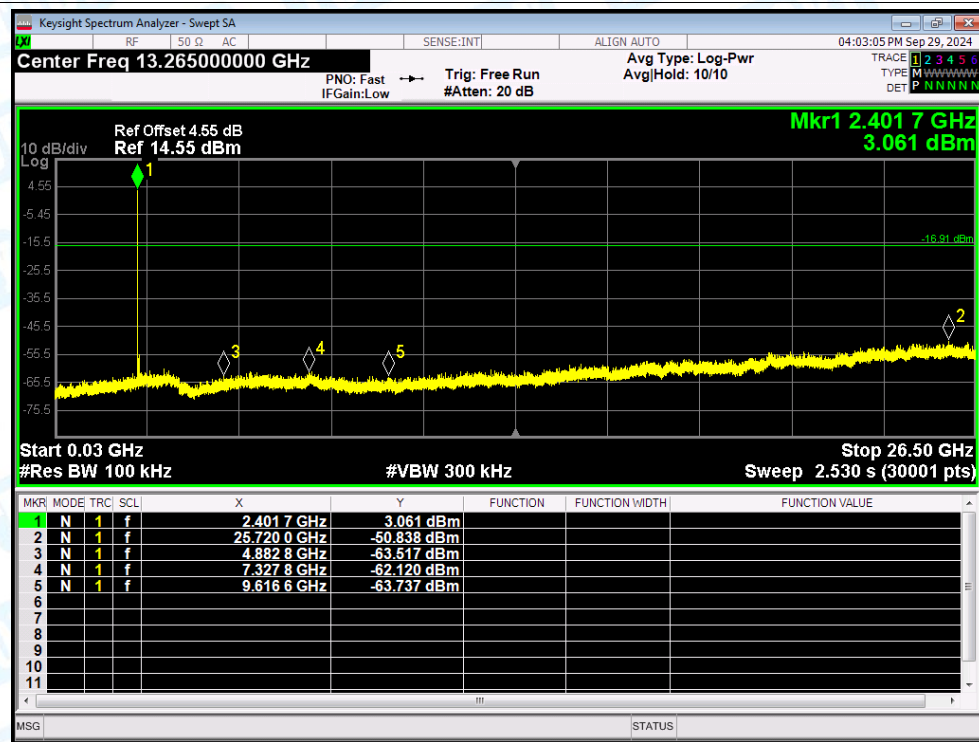
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



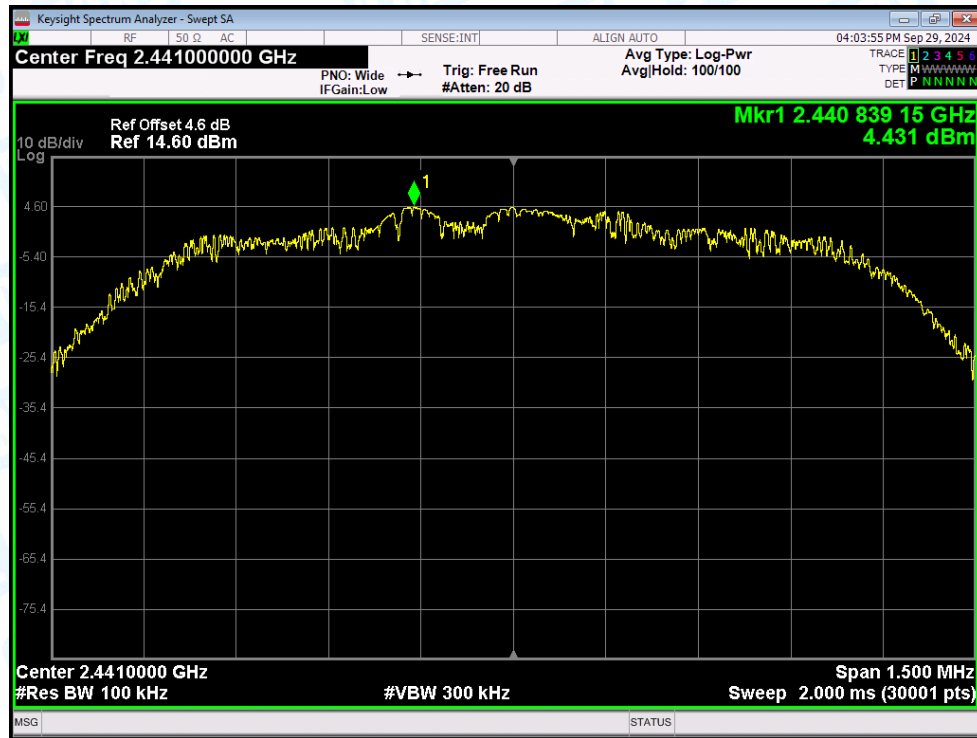
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



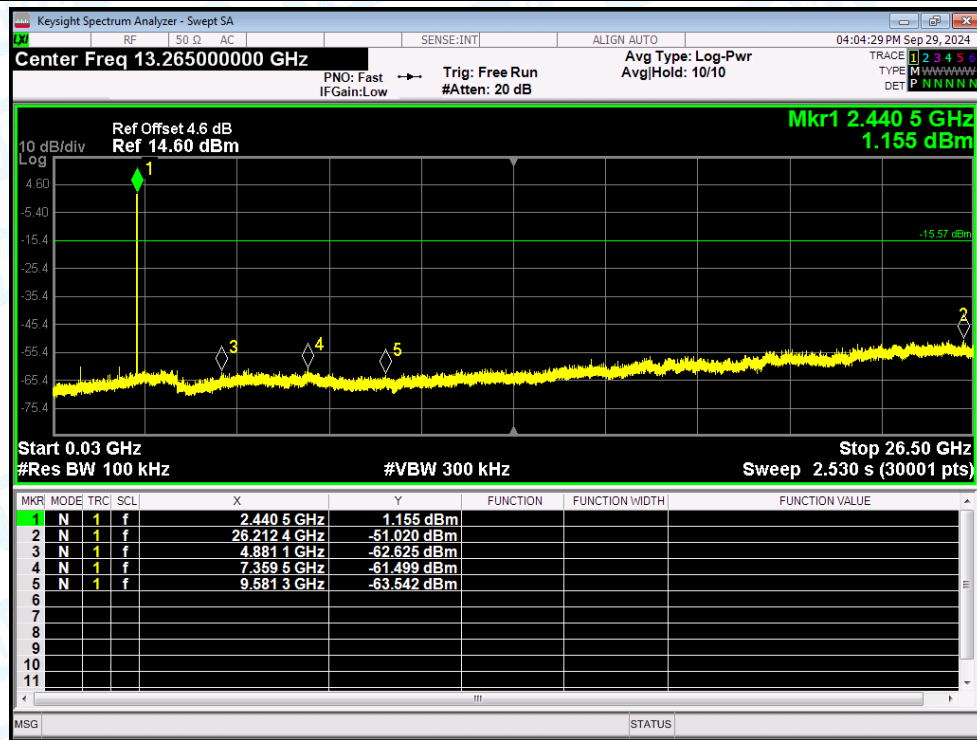
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



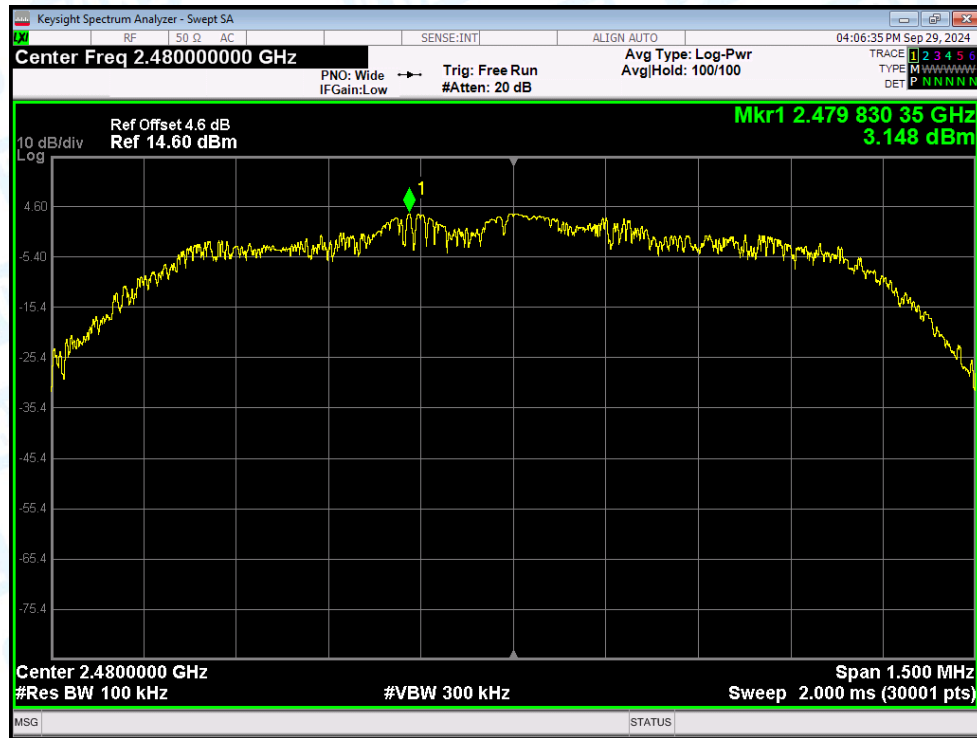
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



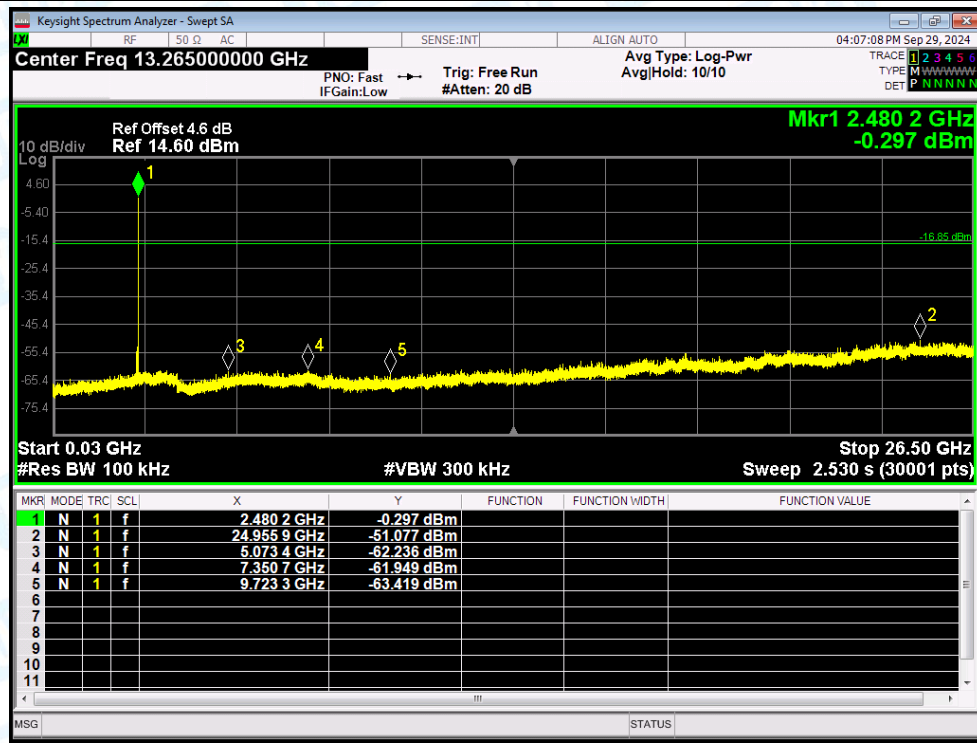
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

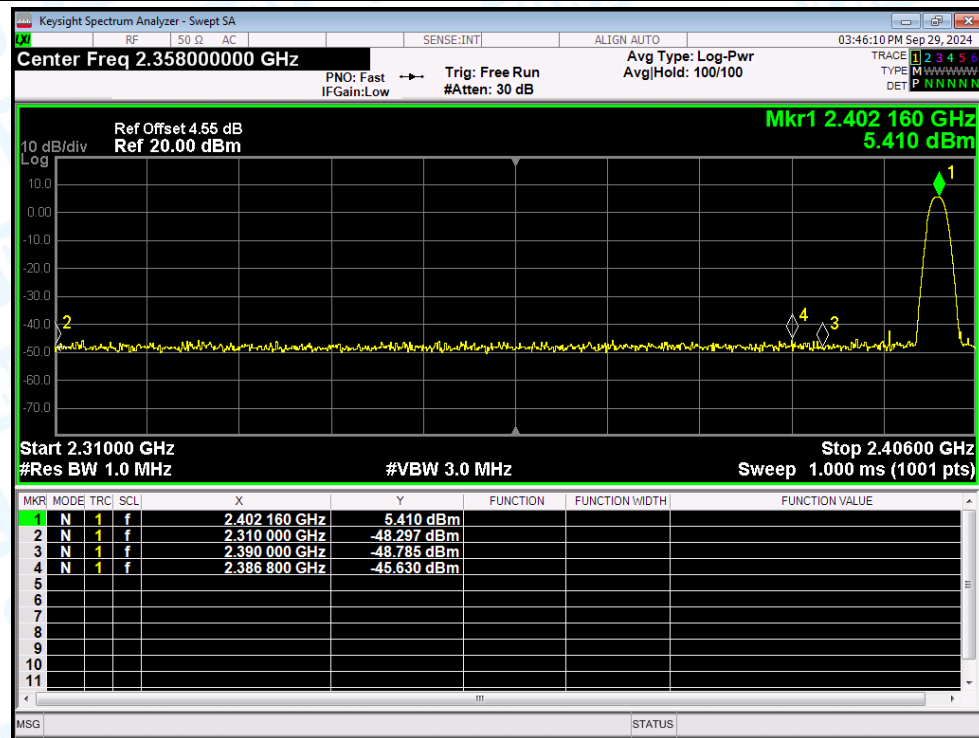


8. Restrict Band

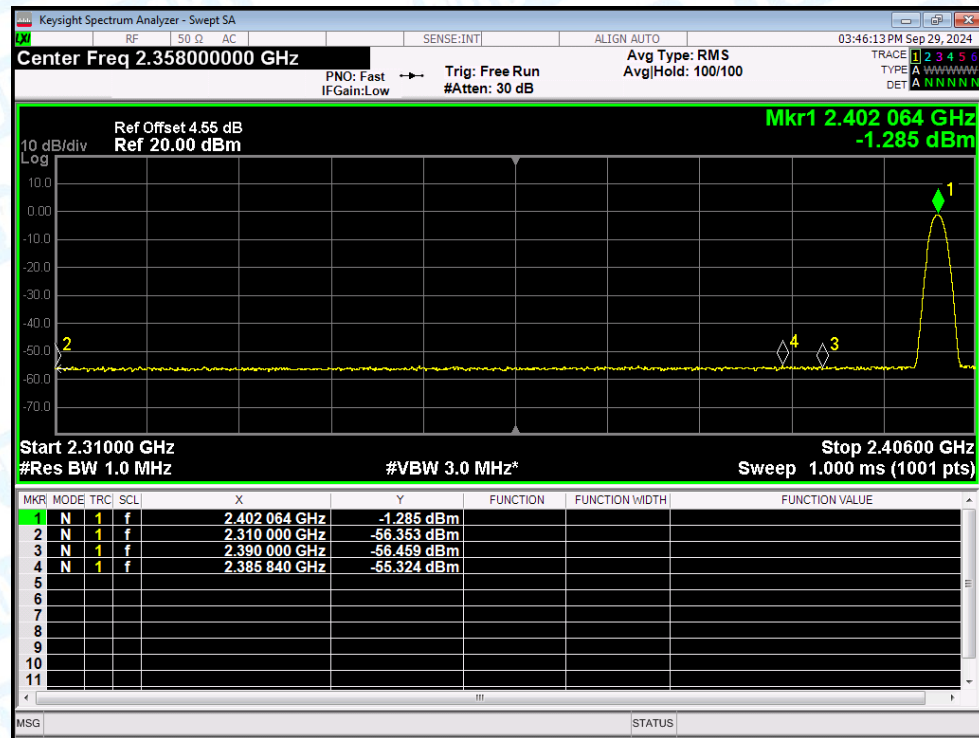
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.3	2	-	48.96	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.35	2	4.84	45.75	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2386.8	-45.63	2	-	51.63	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2385.84	-55.32	2	4.84	46.78	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-48.79	2	-	48.47	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.46	2	4.84	45.64	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-47.35	2	-	49.91	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.33	2	4.95	46.88	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.632	-41.94	2	-	55.32	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2497.864	-54.62	2	4.95	47.59	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.5	2	-	49.76	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.24	2	4.95	46.97	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.59	2	-	49.67	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.89	2	0	40.37	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2368.272	-45.08	2	-	52.18	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2365.008	-55.45	2	0	41.81	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.99	2	-	50.27	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.36	2	0	40.9	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.53	2	-	48.73	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.8	2	4.95	47.41	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.952	-41.77	2	-	55.49	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2493.496	-54.79	2	4.95	47.42	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.33	2	-	48.93	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.43	2	4.95	46.78	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-50.07	2	-	47.19	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.62	2	5.06	45.7	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2383.44	-45.09	2	-	52.17	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2381.808	-55.29	2	5.06	47.03	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.38	2	-	48.88	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.83	2	5.06	45.49	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-43.77	2	-	53.49	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.65	2	4.95	46.56	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.232	-41.28	2	-	55.98	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2493.712	-54.71	2	4.95	47.5	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.43	2	-	50.83	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.63	2	4.95	46.58	Average	54	Pass

Test Graphs

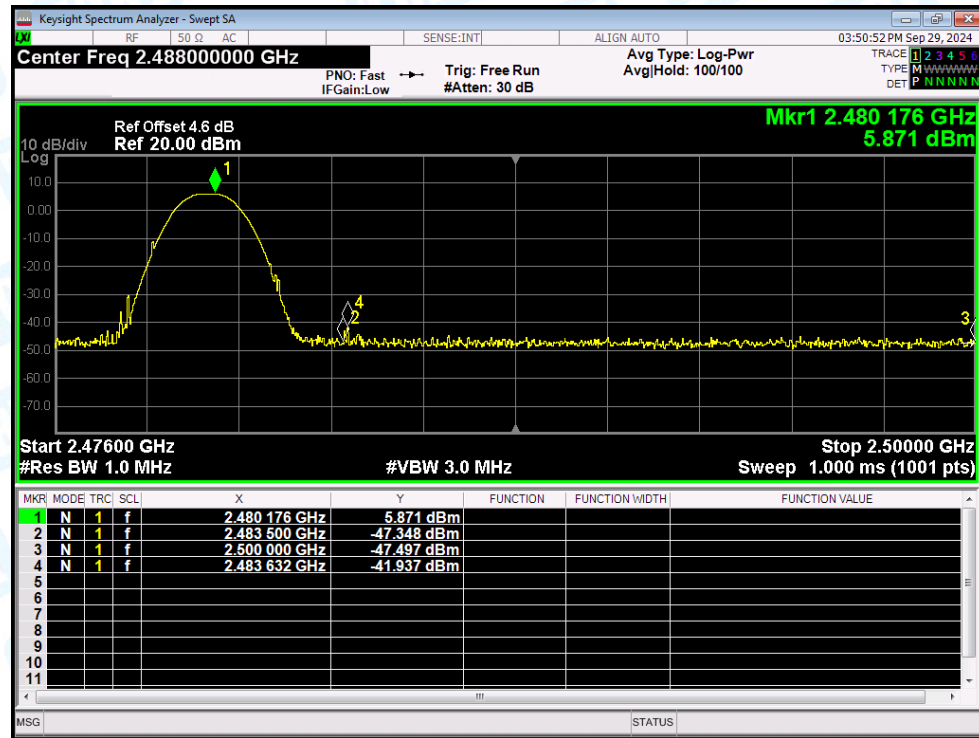
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



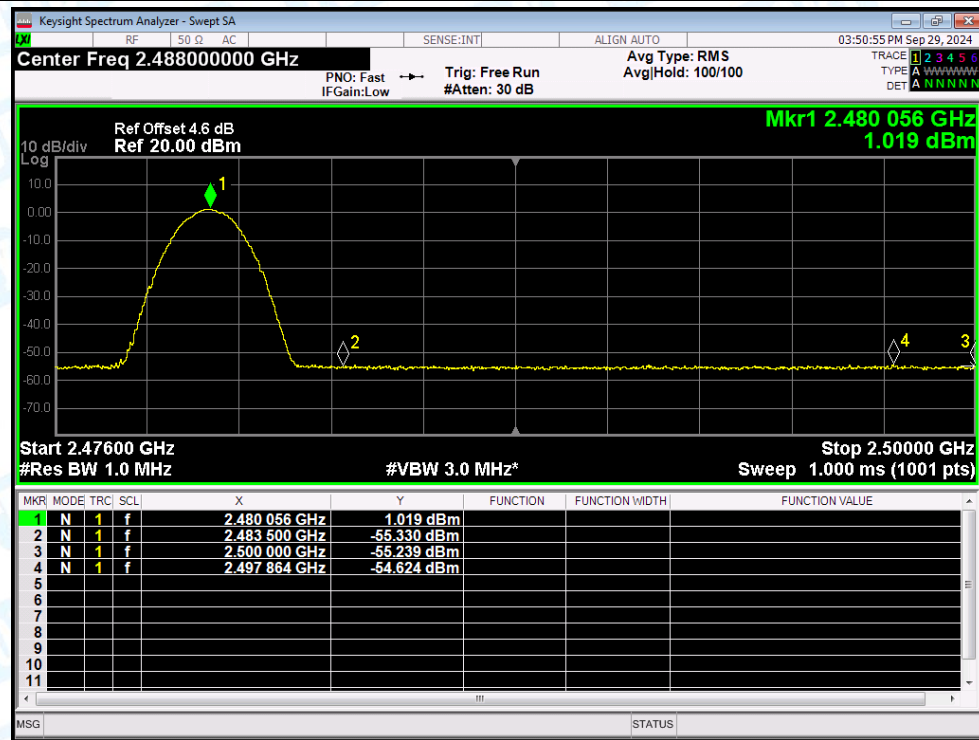
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



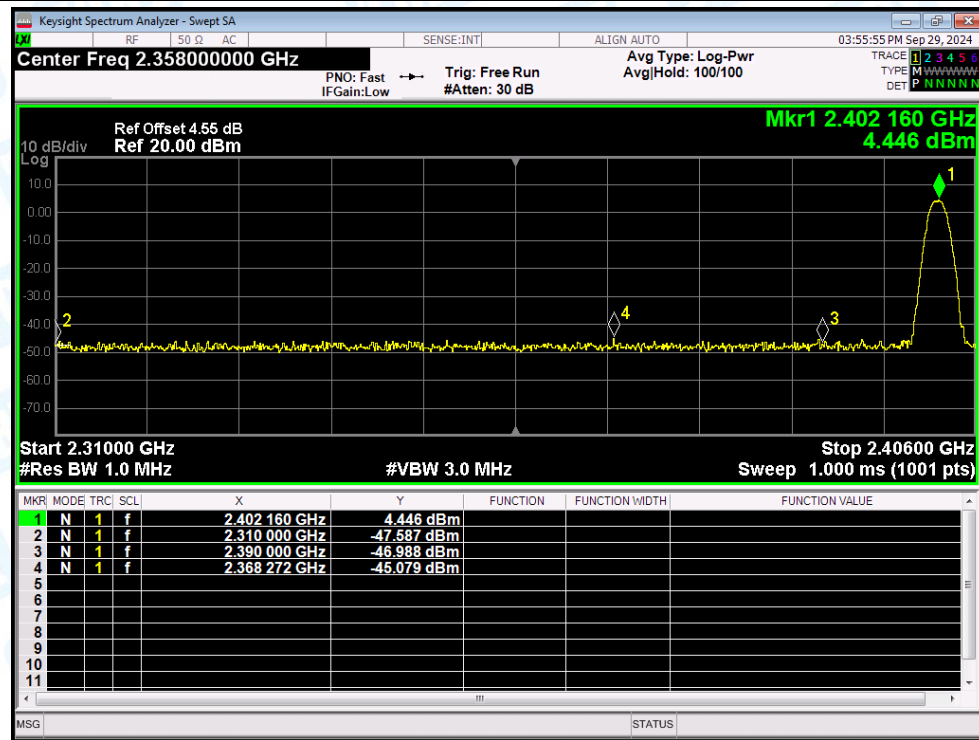
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



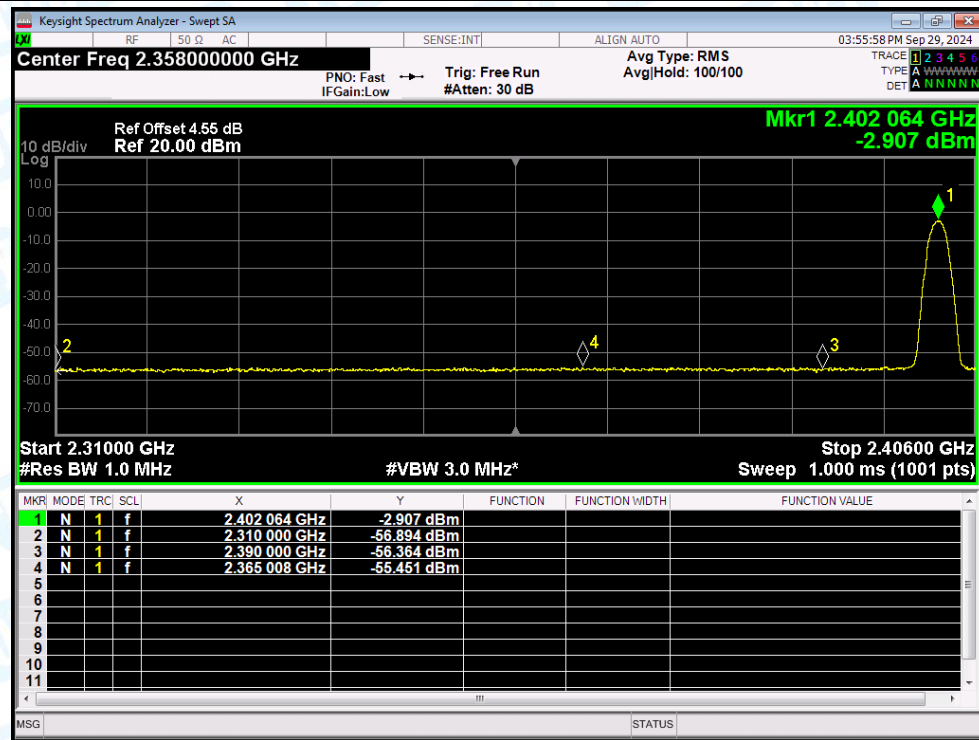
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



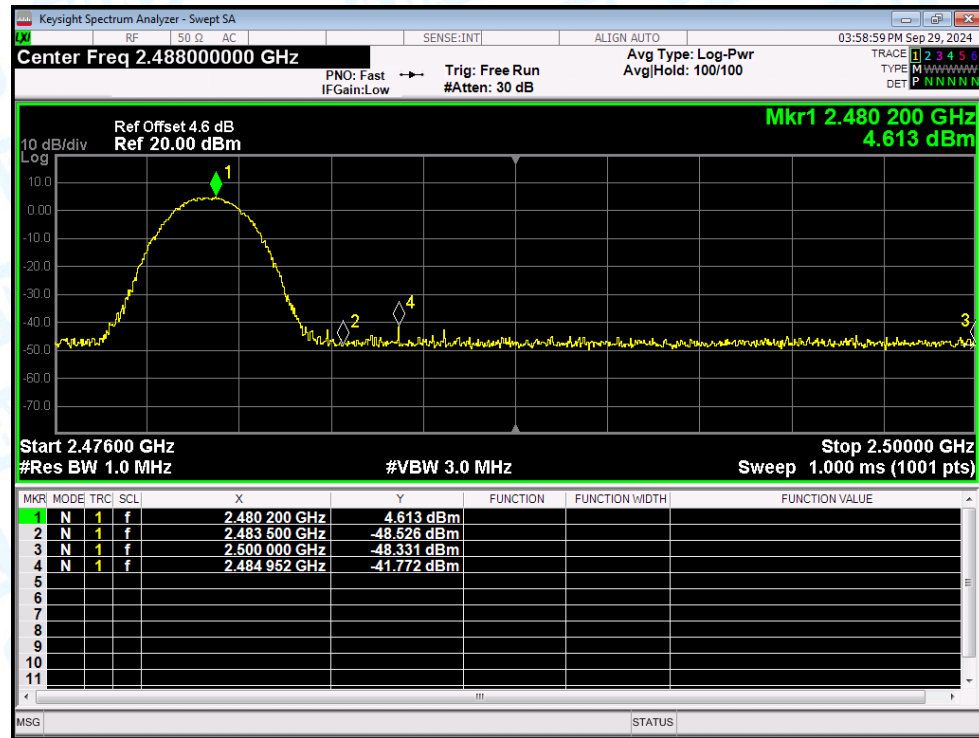
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



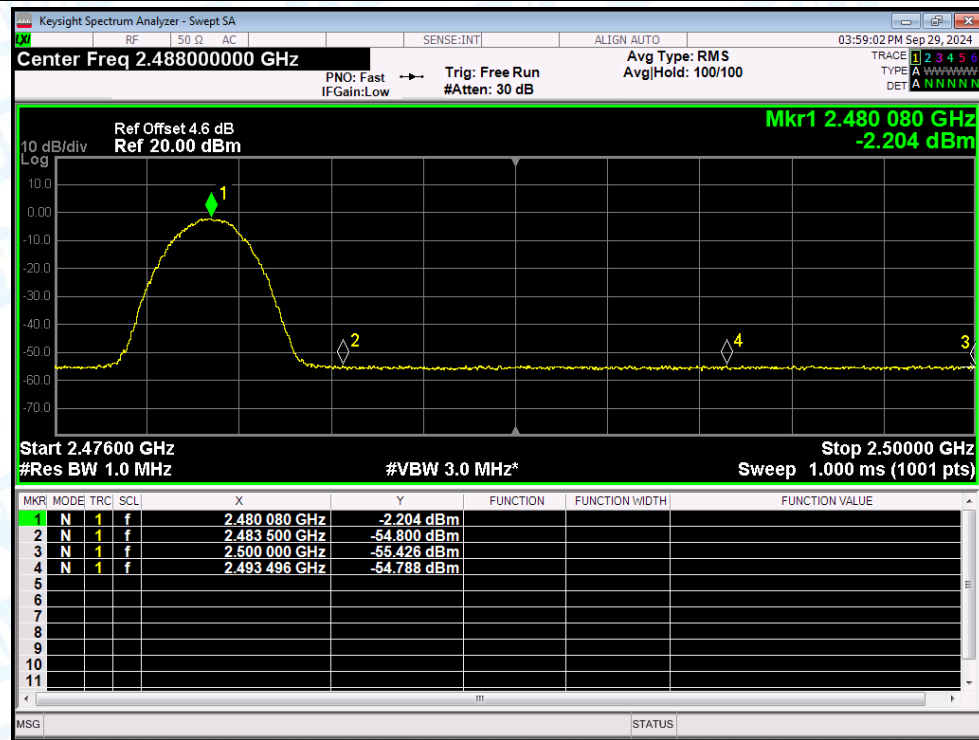
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



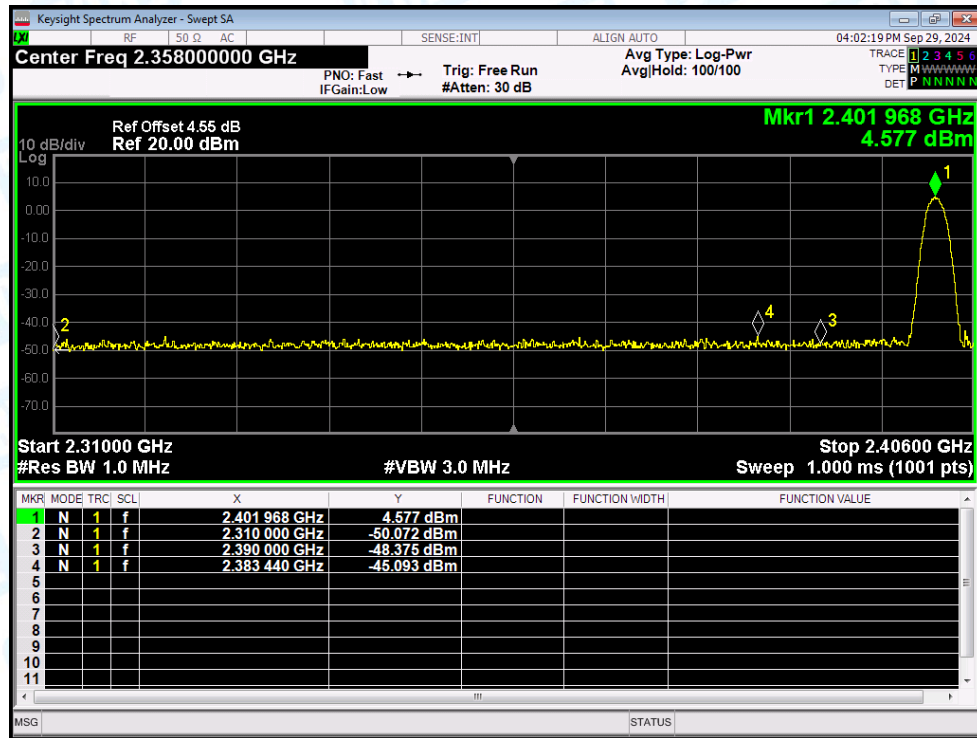
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



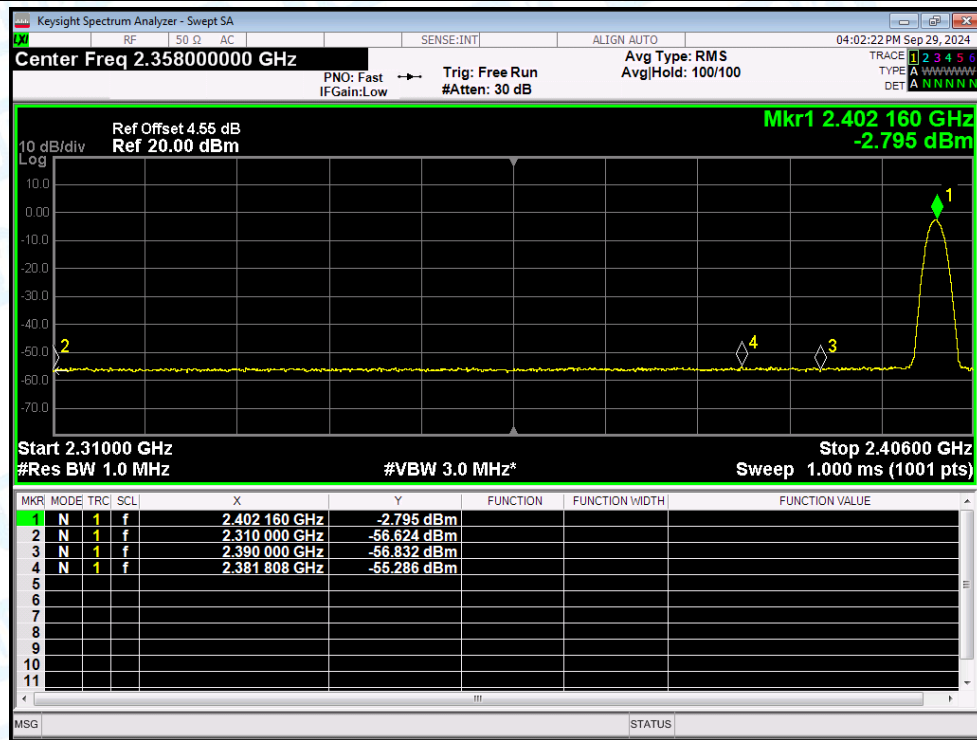
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



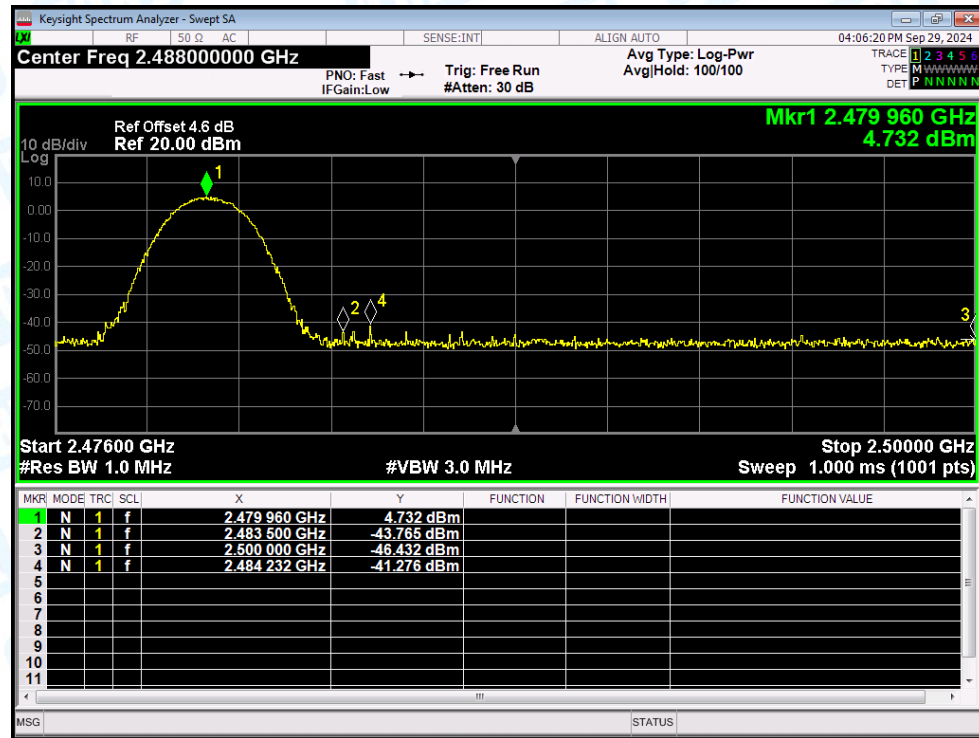
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



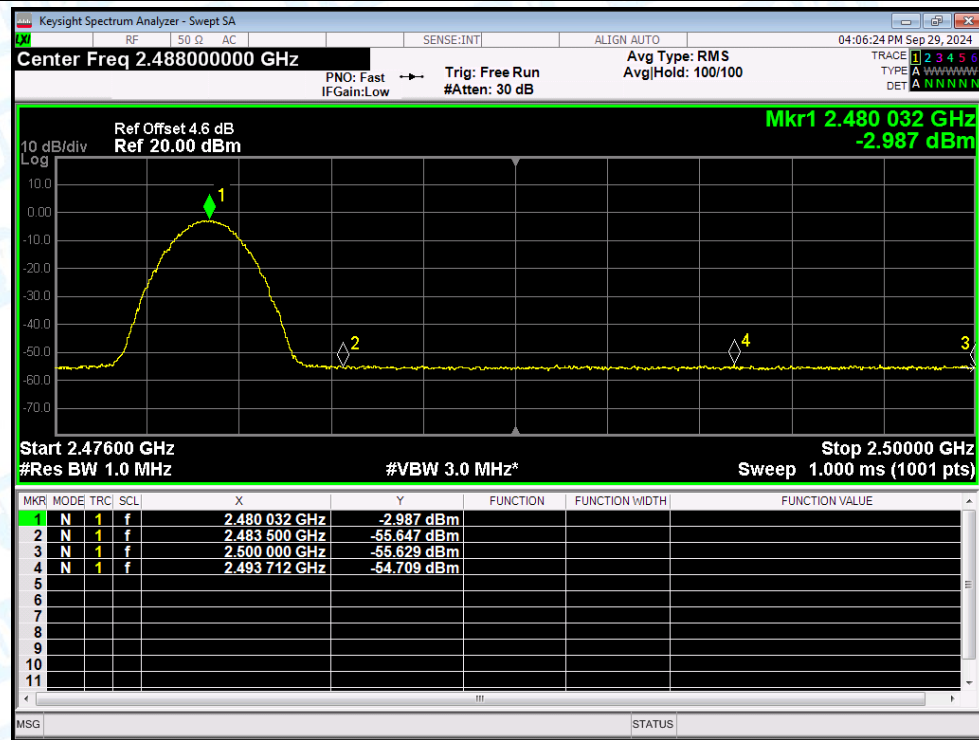
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

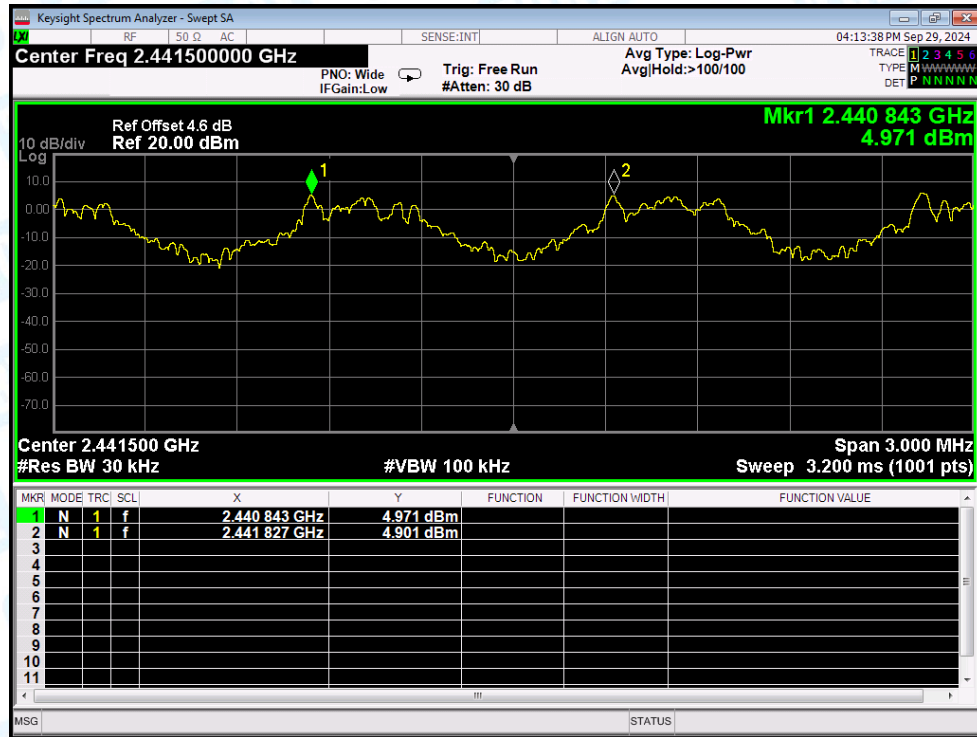


9. Carrier Frequencies Separation

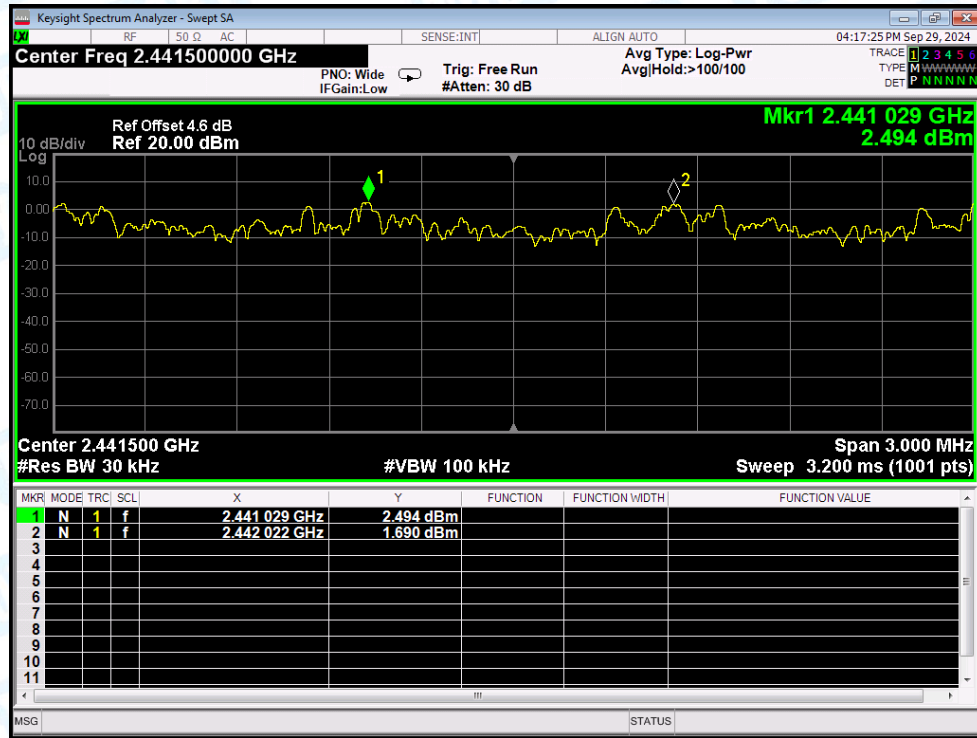
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.843	2441.827	0.984	0.025	Pass
NVNT	2-DH1	Ant1	2441.029	2442.022	0.993	0.84	Pass
NVNT	3-DH1	Ant1	2441.029	2442.016	0.987	0.84	Pass

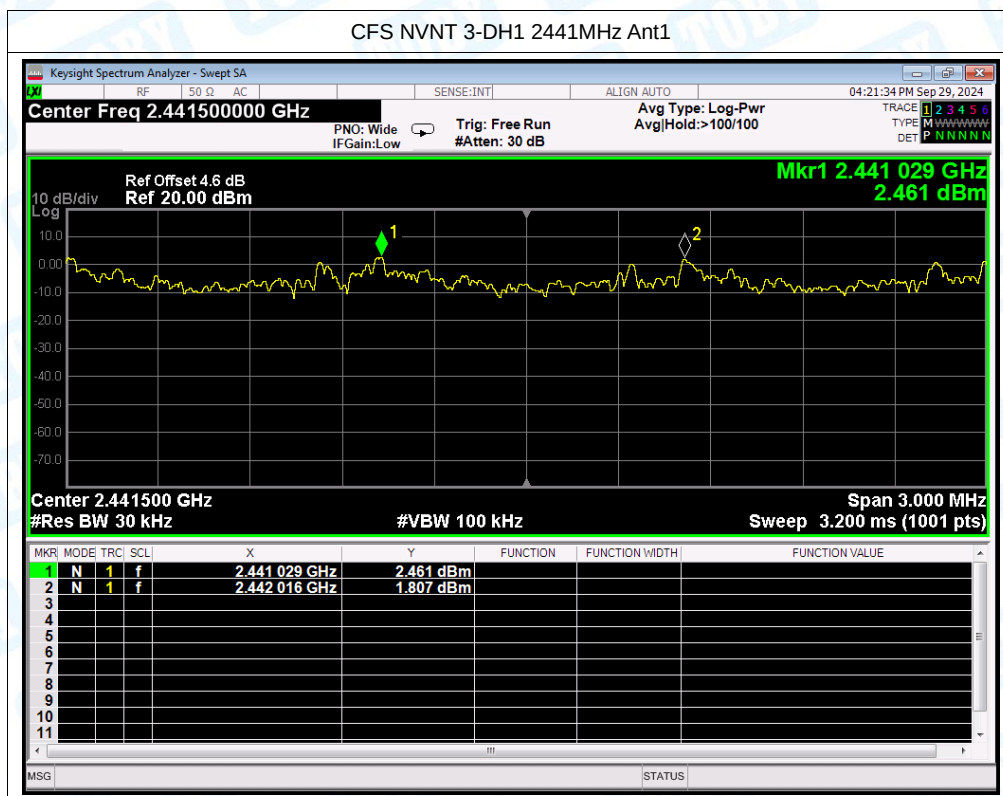
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



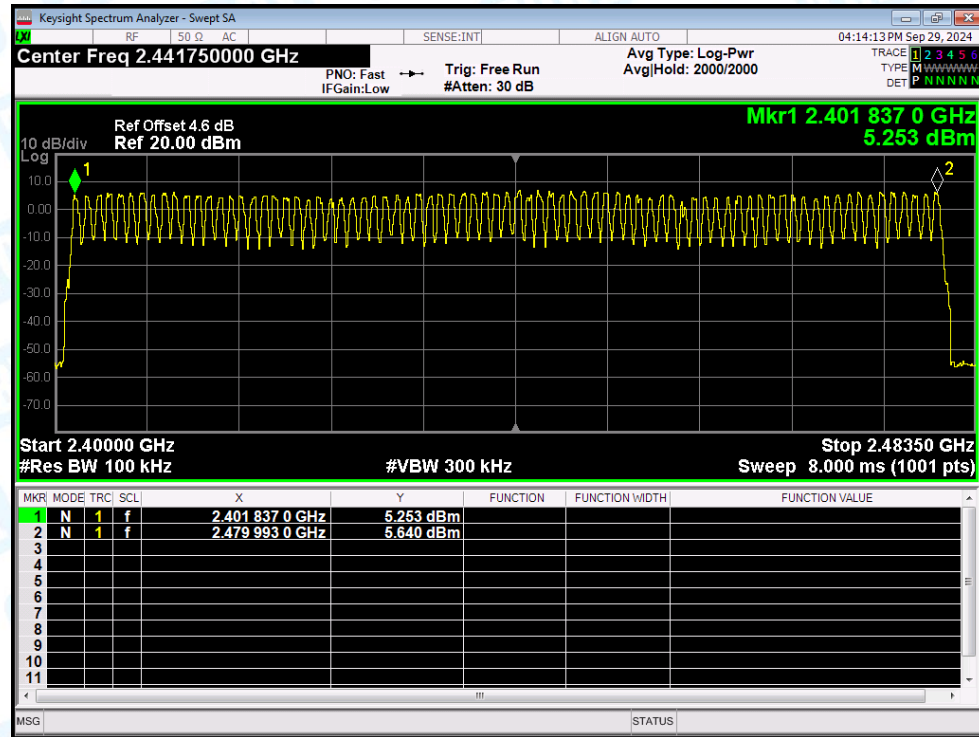


10. Number of Hopping Channel

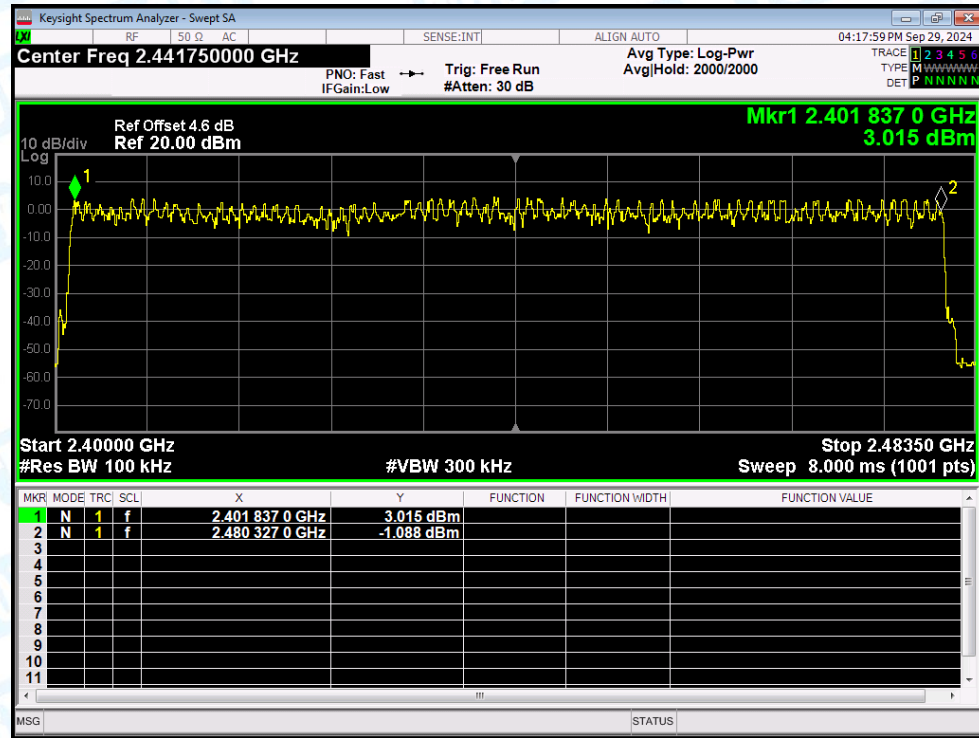
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

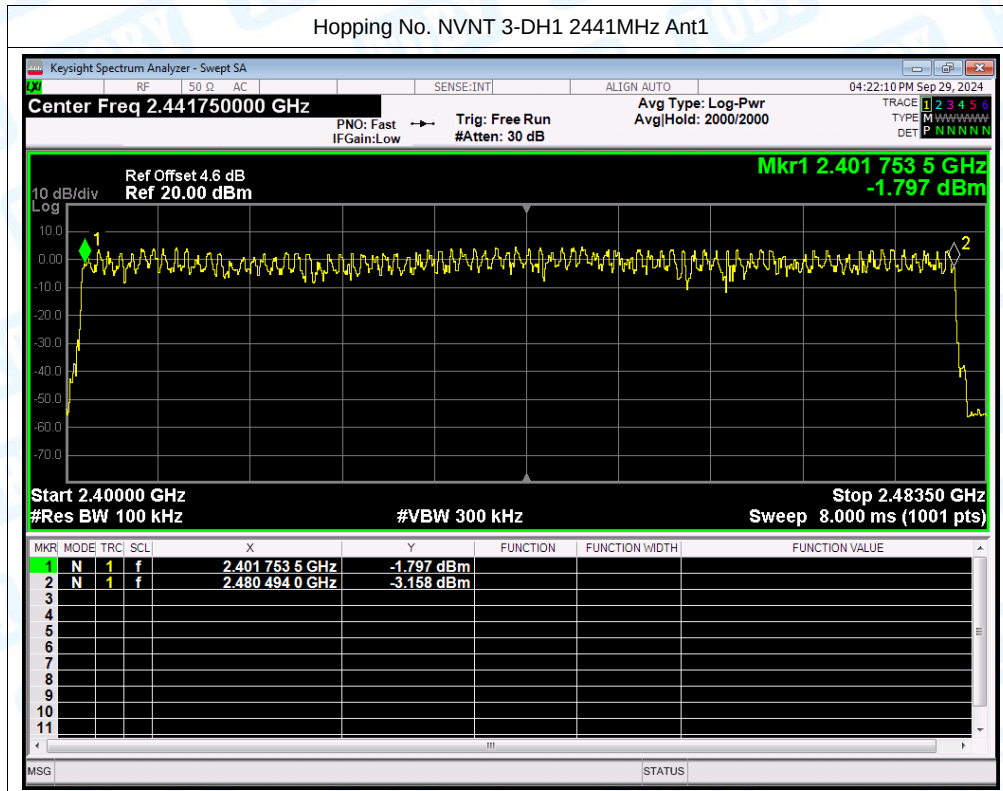
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



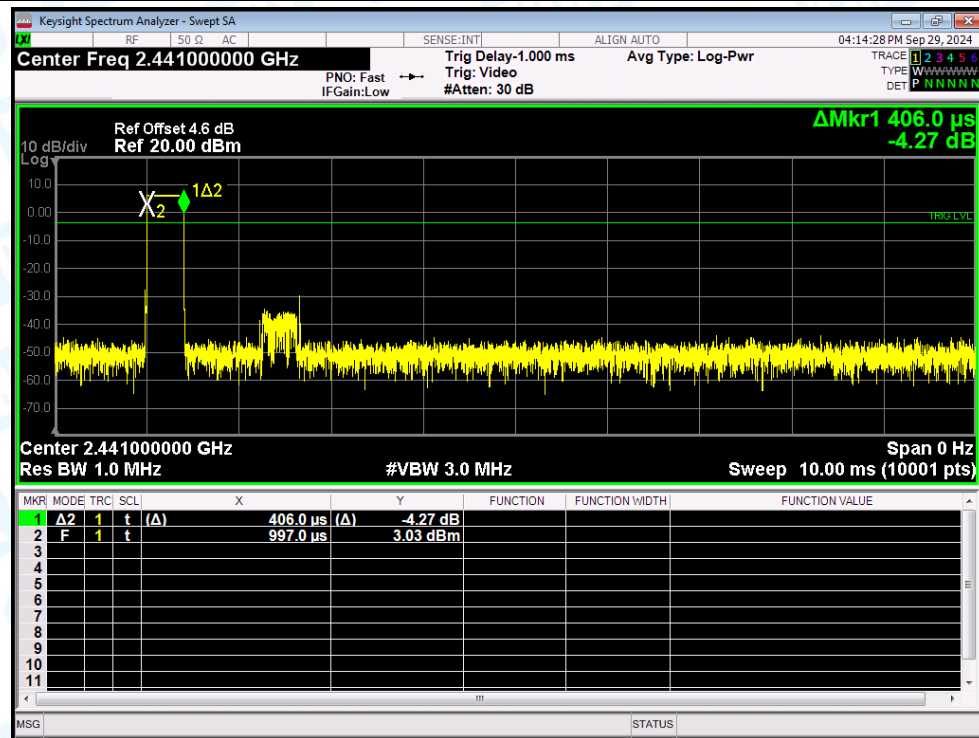


11. Dwell Time

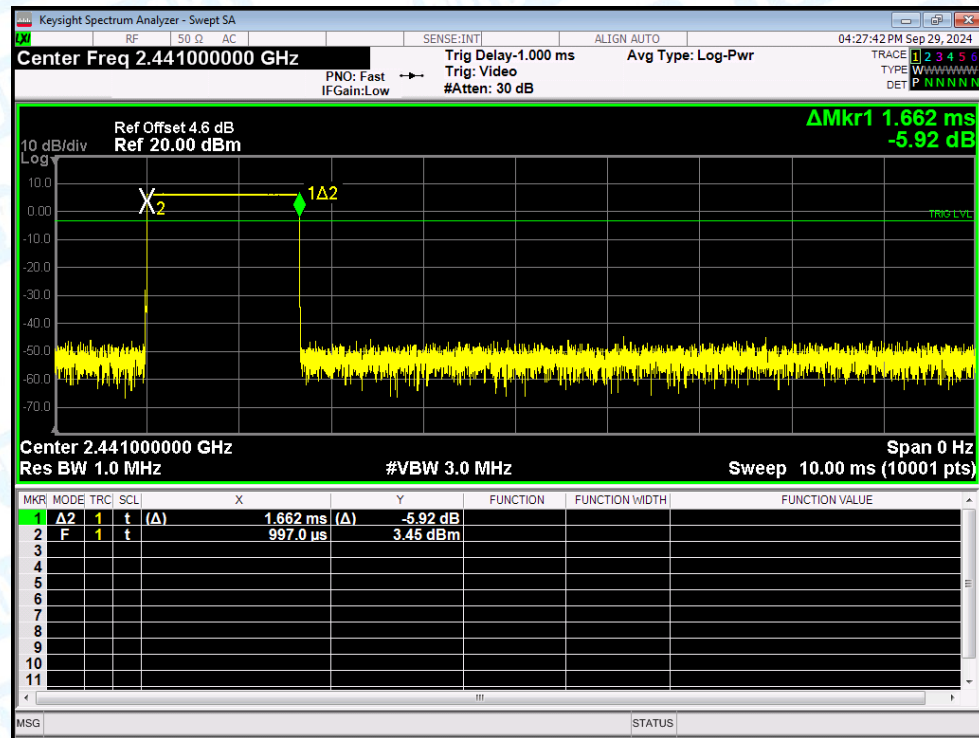
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.406	129.92	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.662	265.92	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.909	310.293	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.398	127.36	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.651	264.16	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.898	309.12	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.396	126.72	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.646	263.36	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.897	309.013	31600	400	Pass

Test Graphs

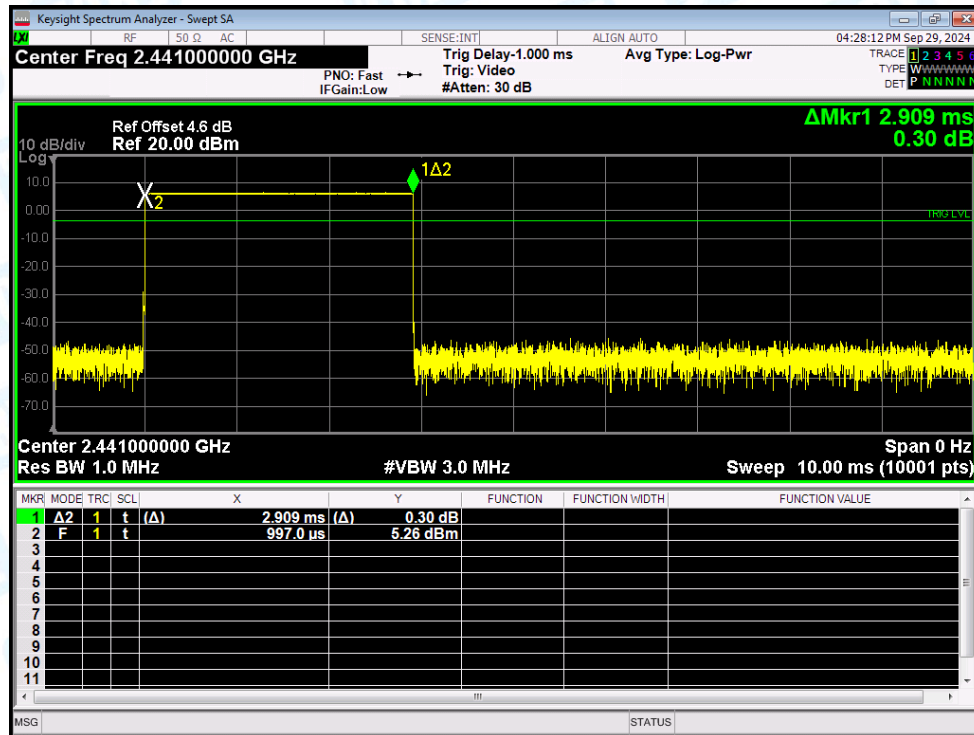
Dwell NVNT 1-DH1 2441MHz Ant1



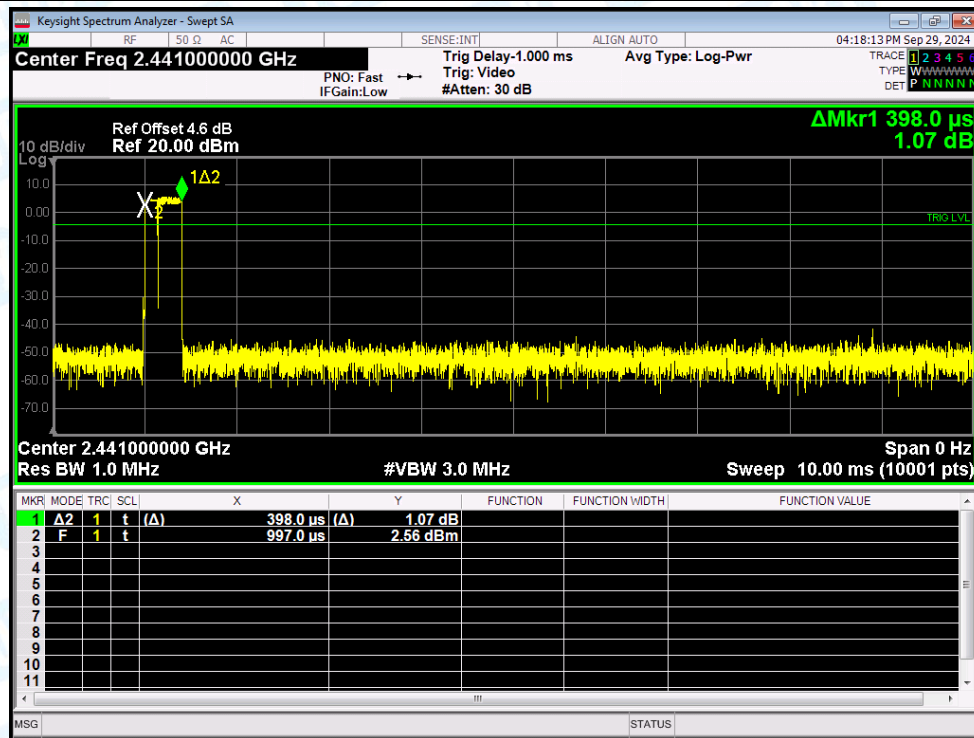
Dwell NVNT 1-DH3 2441MHz Ant1



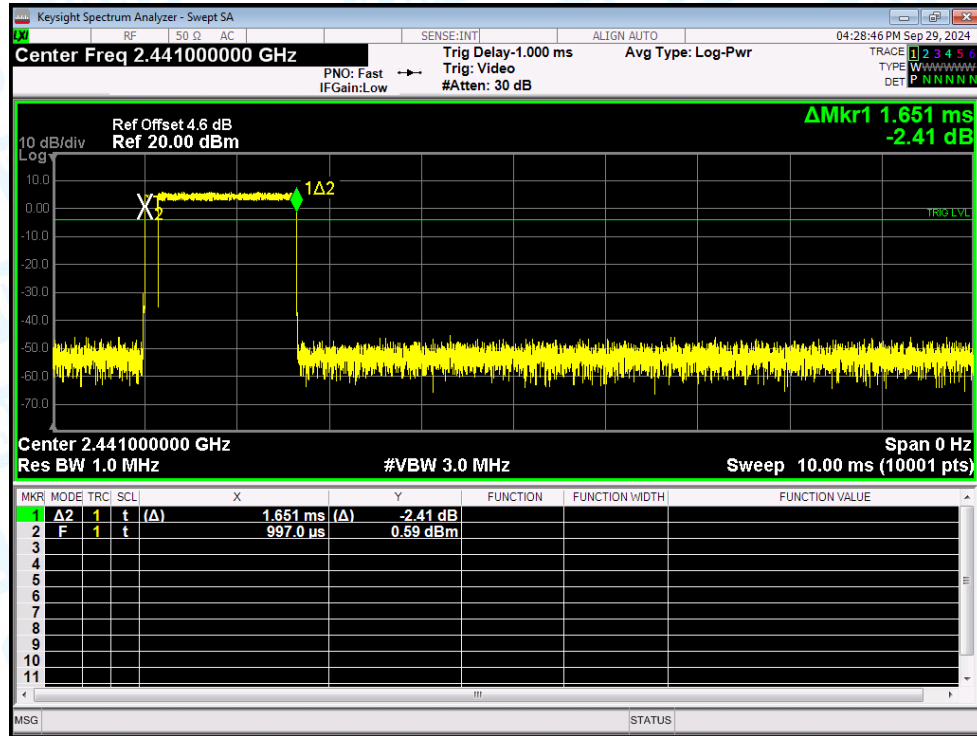
Dwell NVNT 1-DH5 2441MHz Ant1



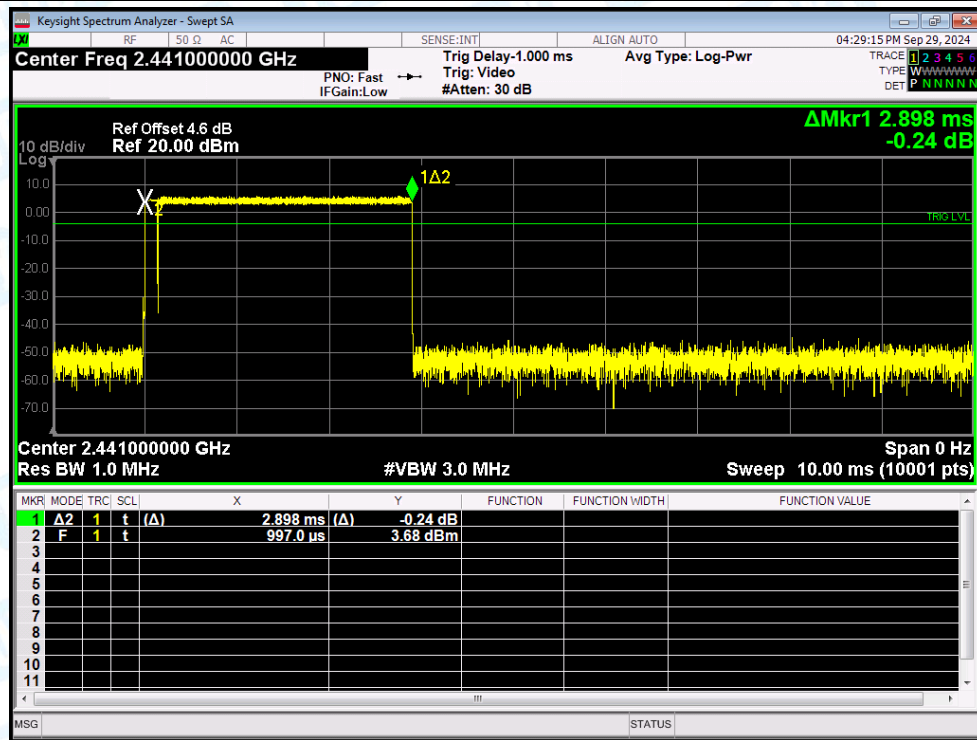
Dwell NVNT 2-DH1 2441MHz Ant1



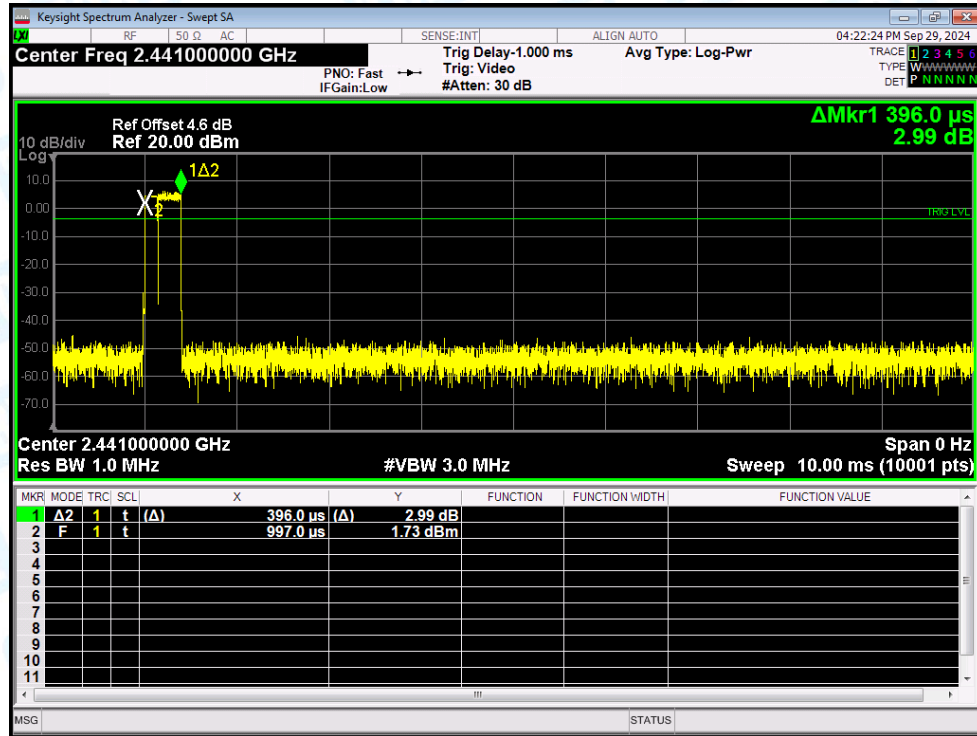
Dwell NVNT 2-DH3 2441MHz Ant1



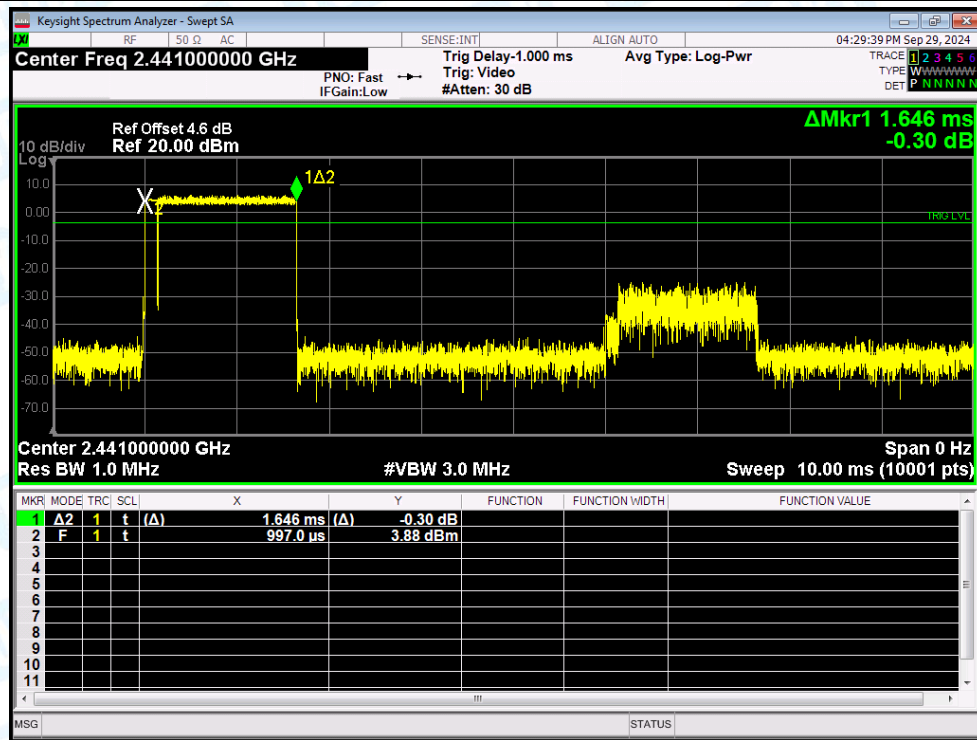
Dwell NVNT 2-DH5 2441MHz Ant1

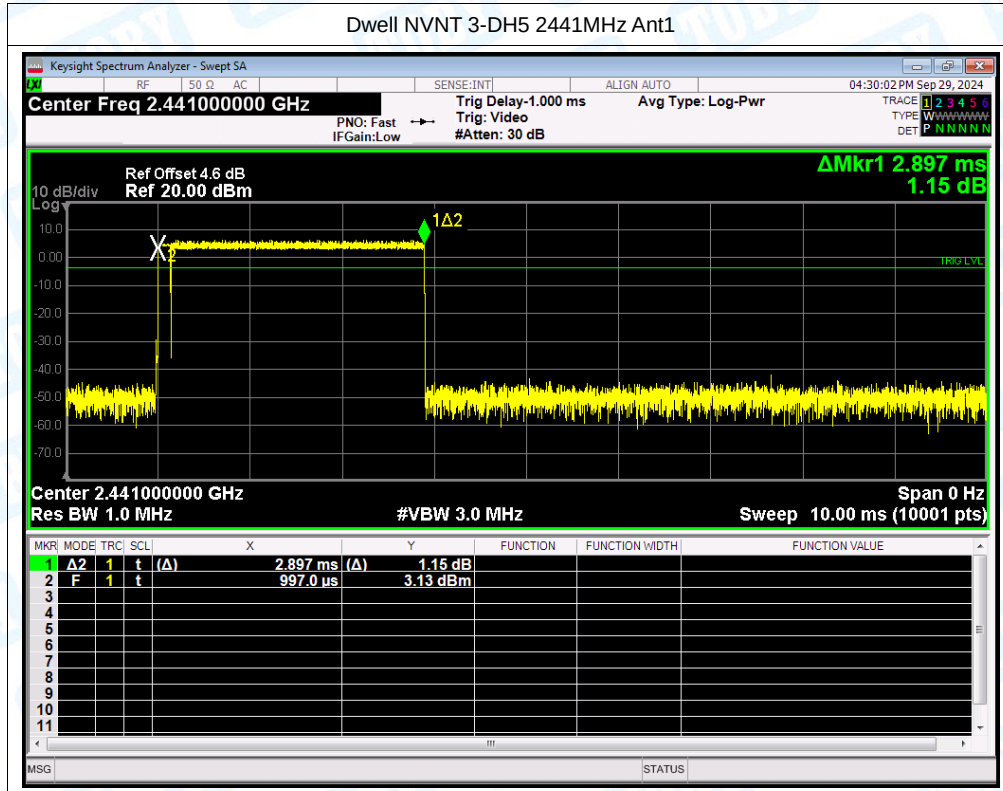


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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