

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	BLUETOOTH SLEEP MASK
Test Model:	WH3011
Sample ID:	HC-C-202502-0124-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	47%
Test Voltage:	DC 3.7V
Test Engineer:	Rick Chen
Note: For a more detailed features description, please refer to the report TBR-C-202502-0124-11 The report only show the worst case data.	

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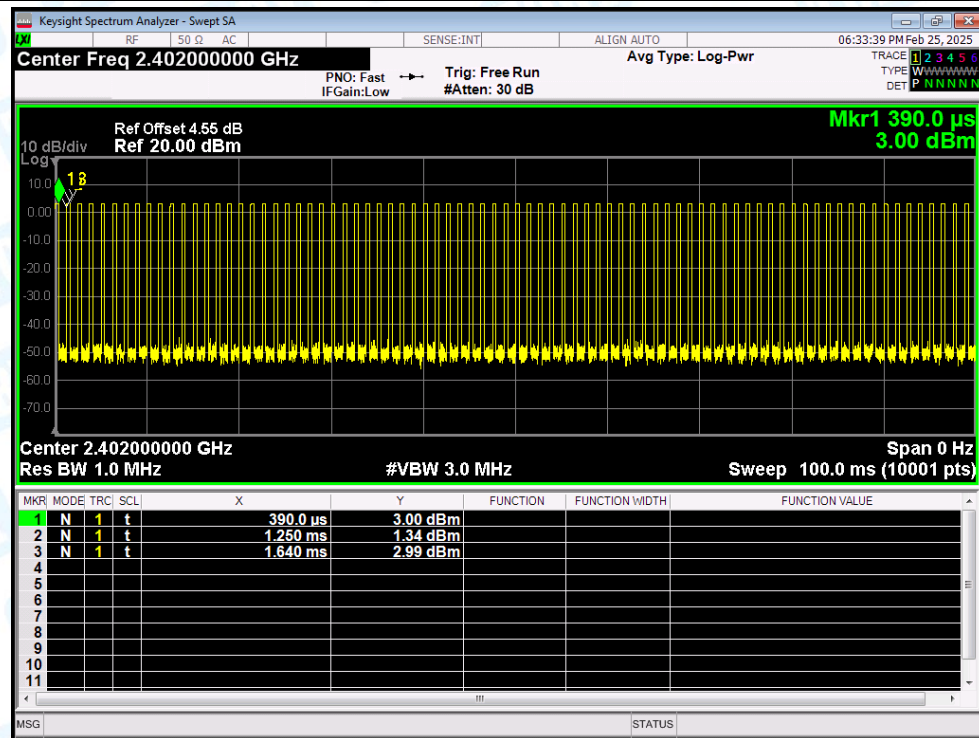
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1. Duty Cycle

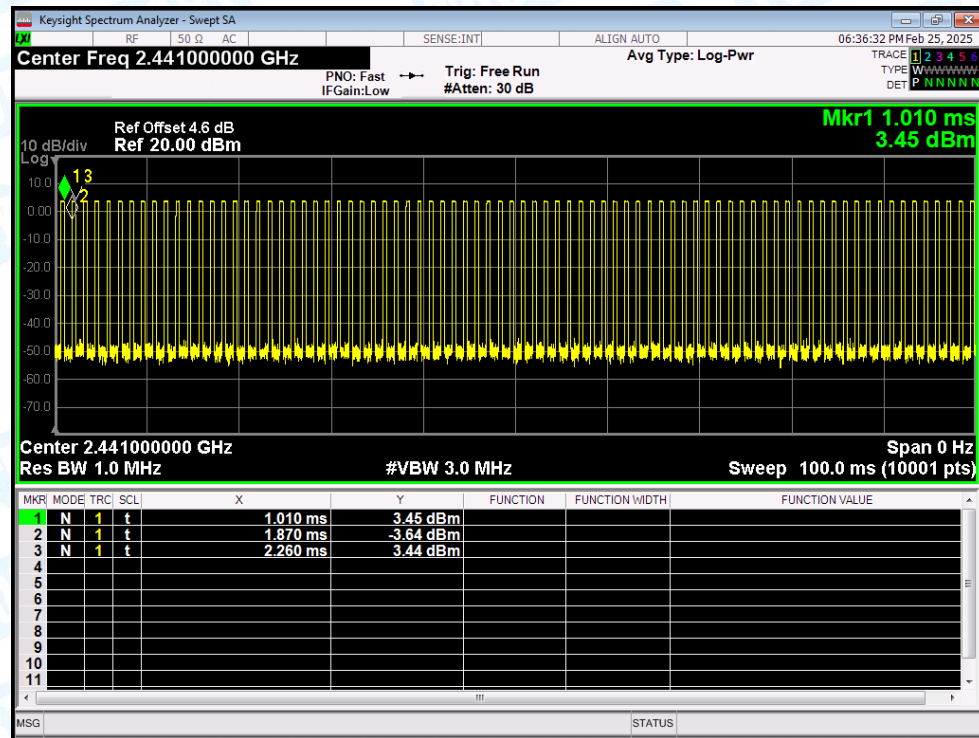
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	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	31.2	5.06	2.56

Test Graphs

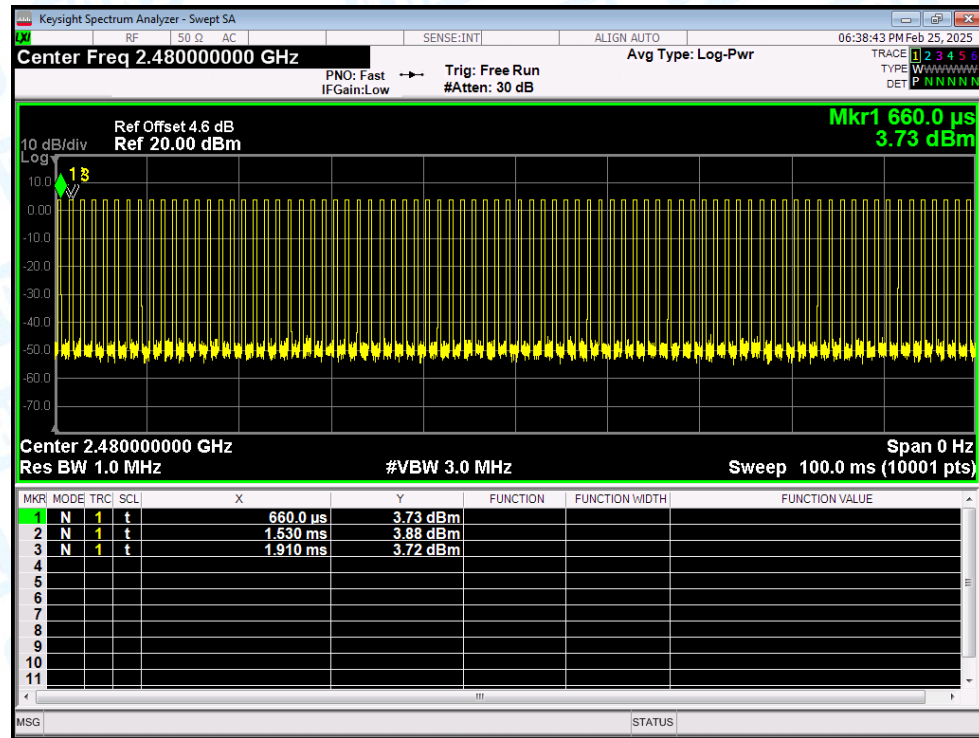
Duty Cycle NVNT 1-DH1 2402MHz Ant1



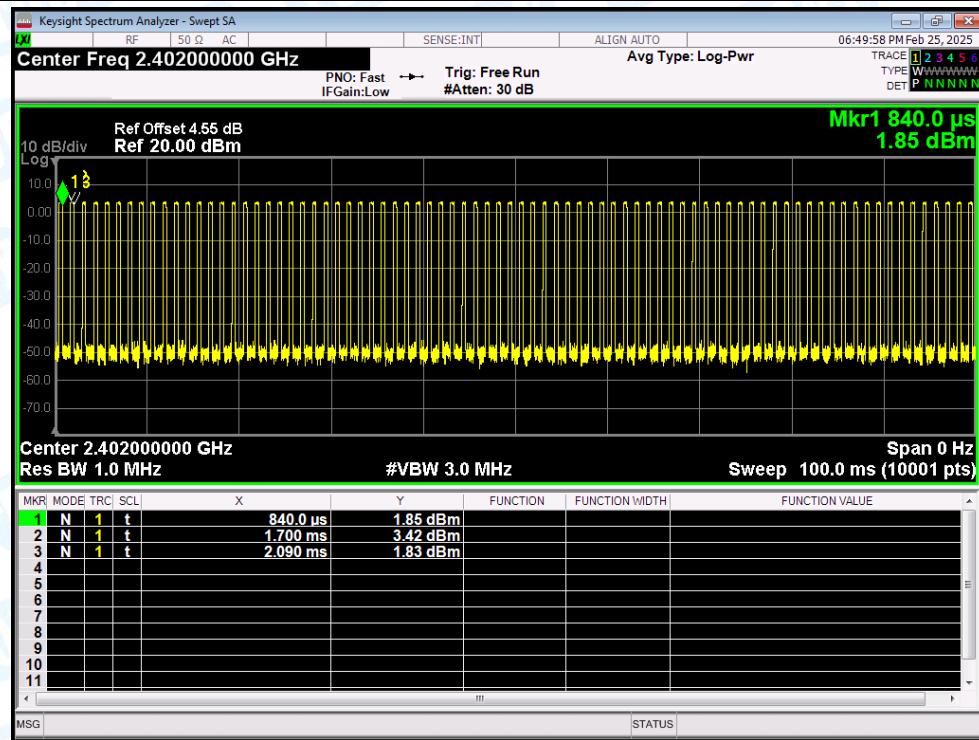
Duty Cycle NVNT 1-DH1 2441MHz Ant1



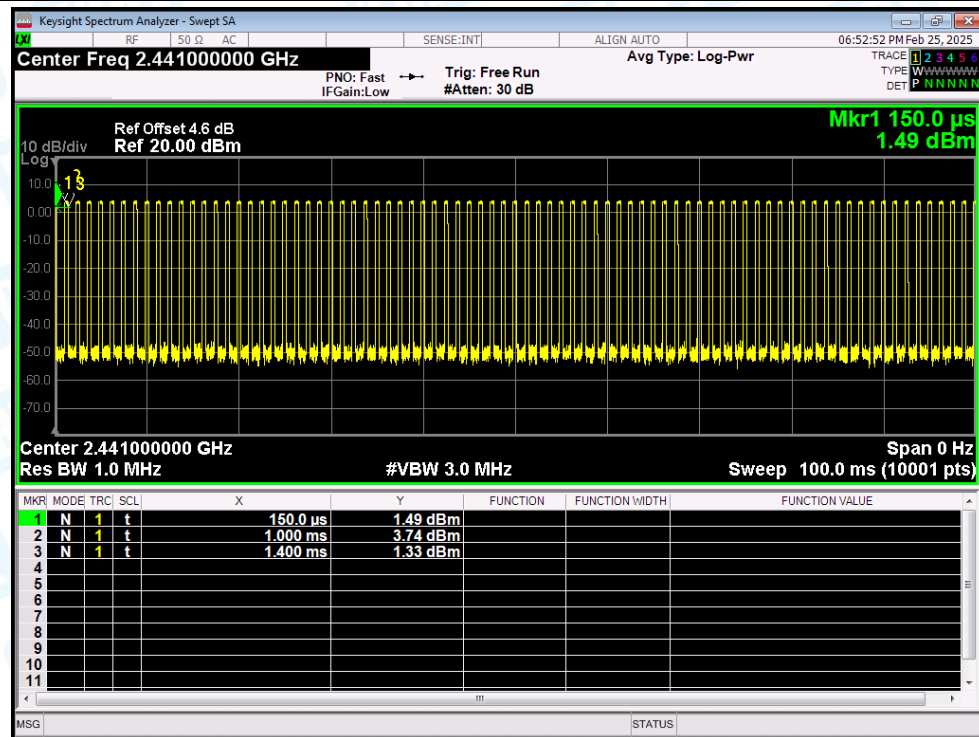
Duty Cycle NVNT 1-DH1 2480MHz Ant1



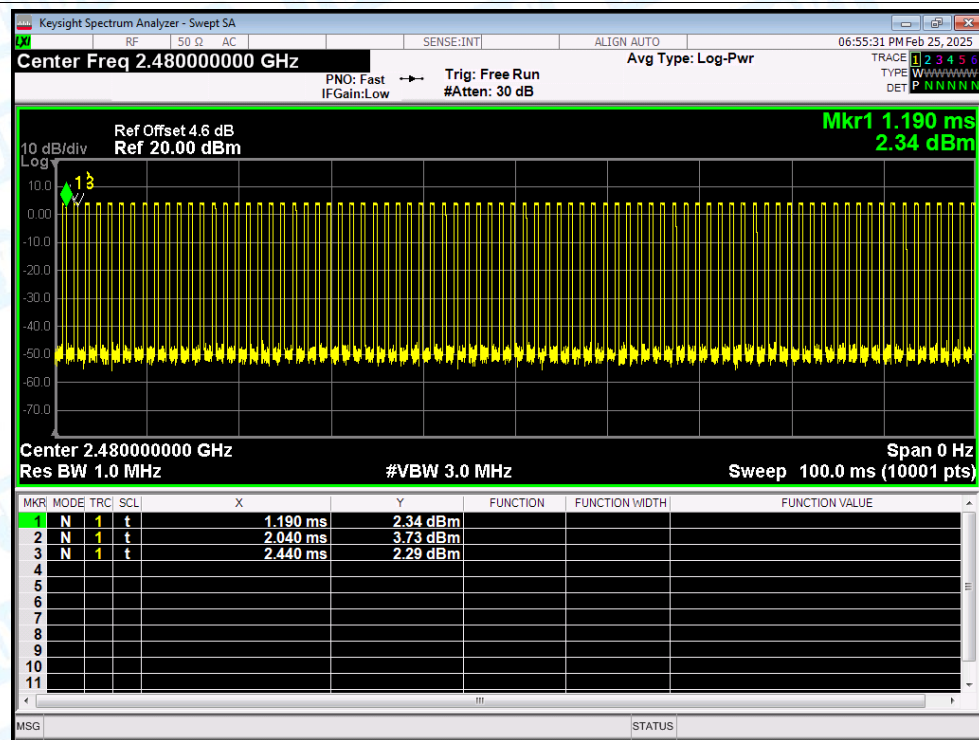
Duty Cycle NVNT 2-DH1 2402MHz Ant1



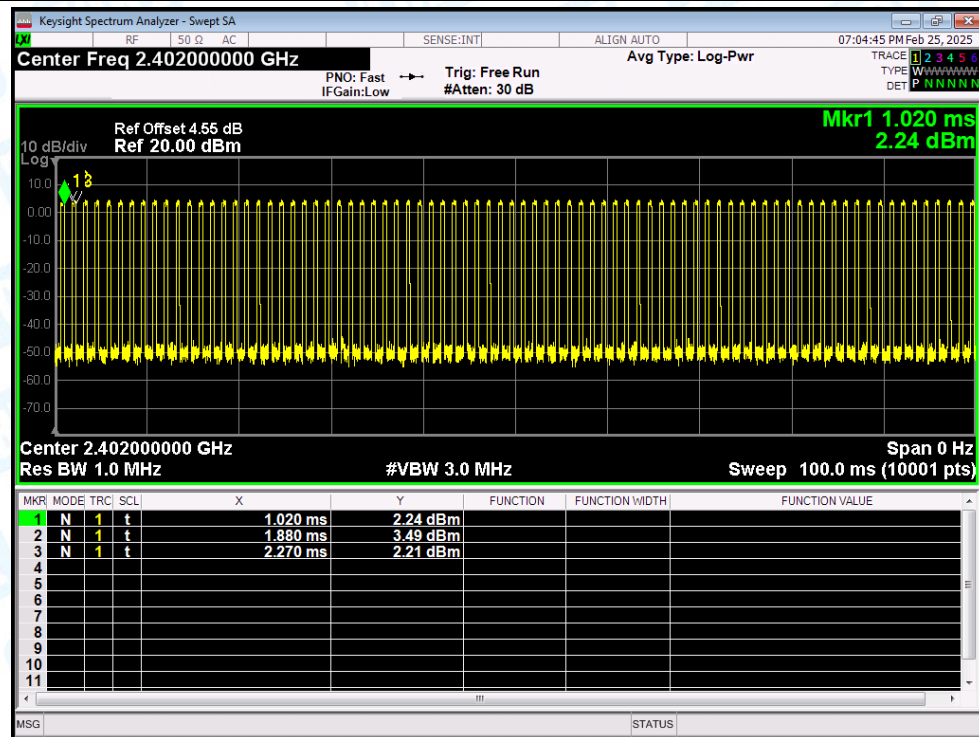
Duty Cycle NVNT 2-DH1 2441MHz Ant1



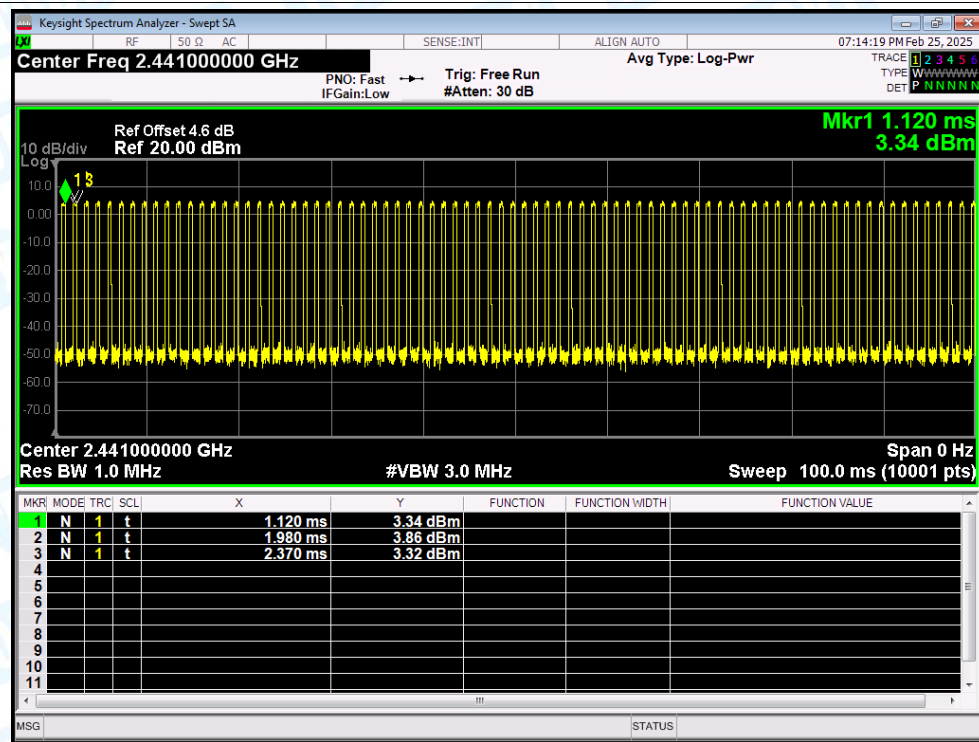
Duty Cycle NVNT 2-DH1 2480MHz Ant1

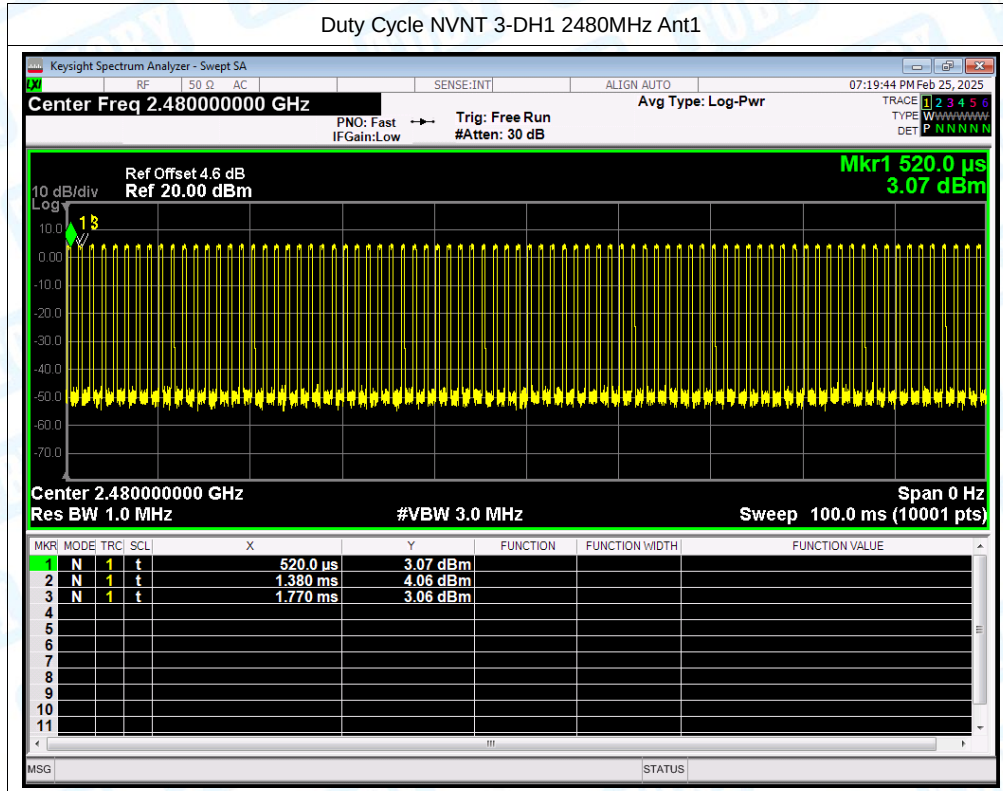


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



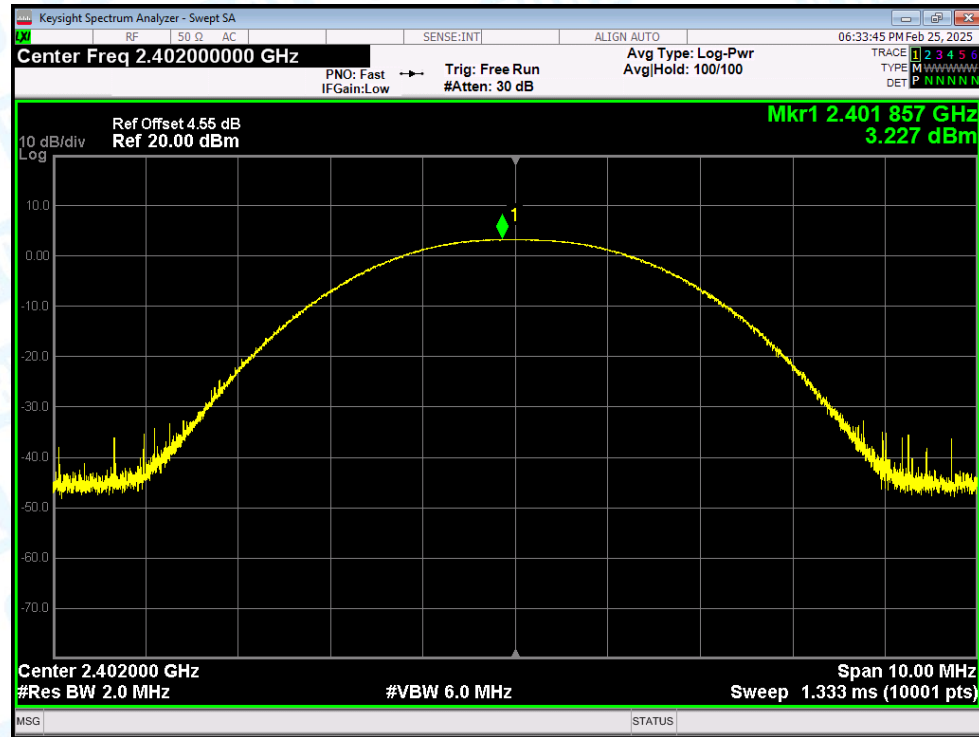


2. Maximum Conducted Output Power

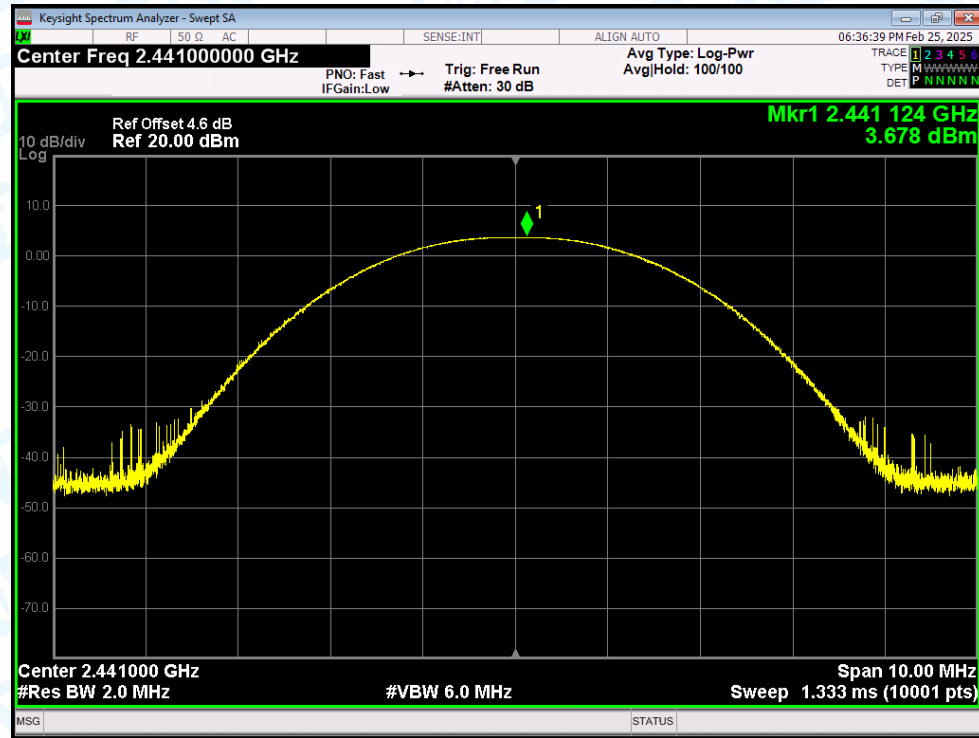
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.227	21	Pass
NVNT	1-DH1	2441	Ant1	3.678	21	Pass
NVNT	1-DH1	2480	Ant1	3.935	21	Pass
NVNT	1-DH3	2441	Ant1	3.798	21	Pass
NVNT	1-DH5	2441	Ant1	3.779	21	Pass
NVNT	2-DH1	2402	Ant1	4.207	21	Pass
NVNT	2-DH1	2441	Ant1	4.56	21	Pass
NVNT	2-DH1	2480	Ant1	4.711	21	Pass
NVNT	2-DH3	2441	Ant1	4.586	21	Pass
NVNT	2-DH5	2441	Ant1	4.542	21	Pass
NVNT	3-DH1	2402	Ant1	4.852	21	Pass
NVNT	3-DH1	2441	Ant1	5.203	21	Pass
NVNT	3-DH1	2480	Ant1	5.287	21	Pass
NVNT	3-DH3	2441	Ant1	4.918	21	Pass
NVNT	3-DH5	2441	Ant1	4.868	21	Pass

Test Graphs

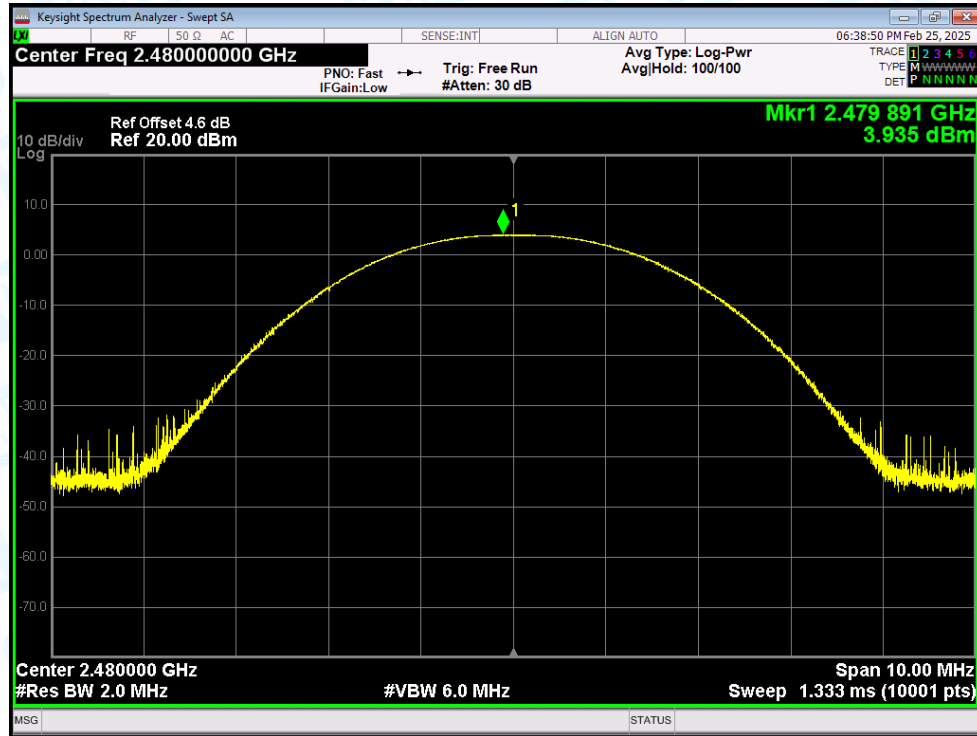
Power NVNT 1-DH1 2402MHz Ant1



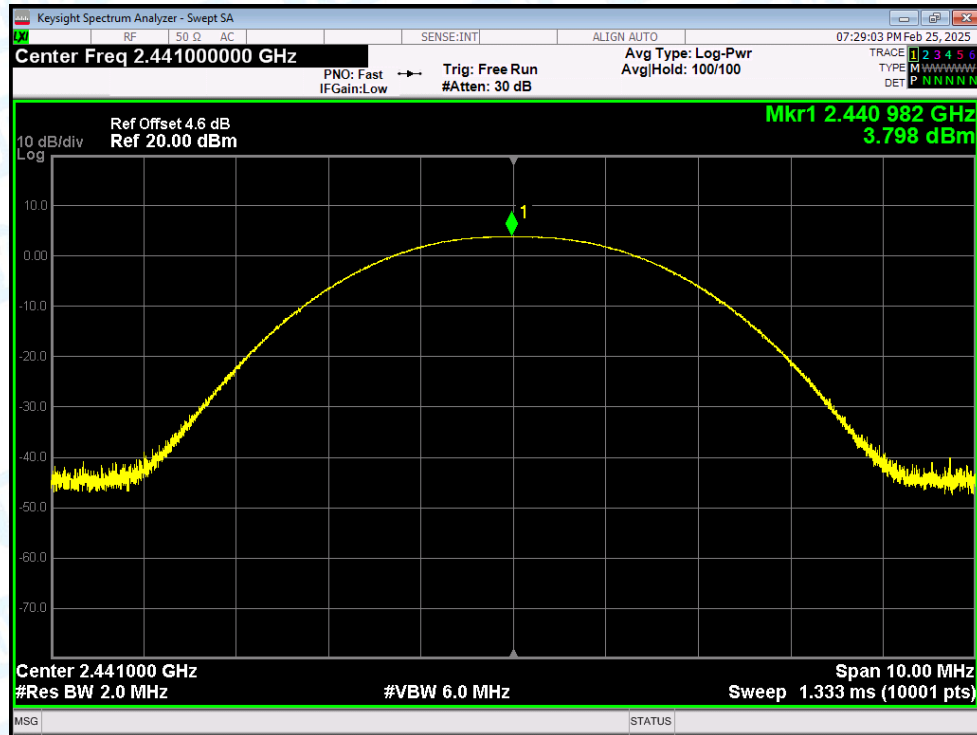
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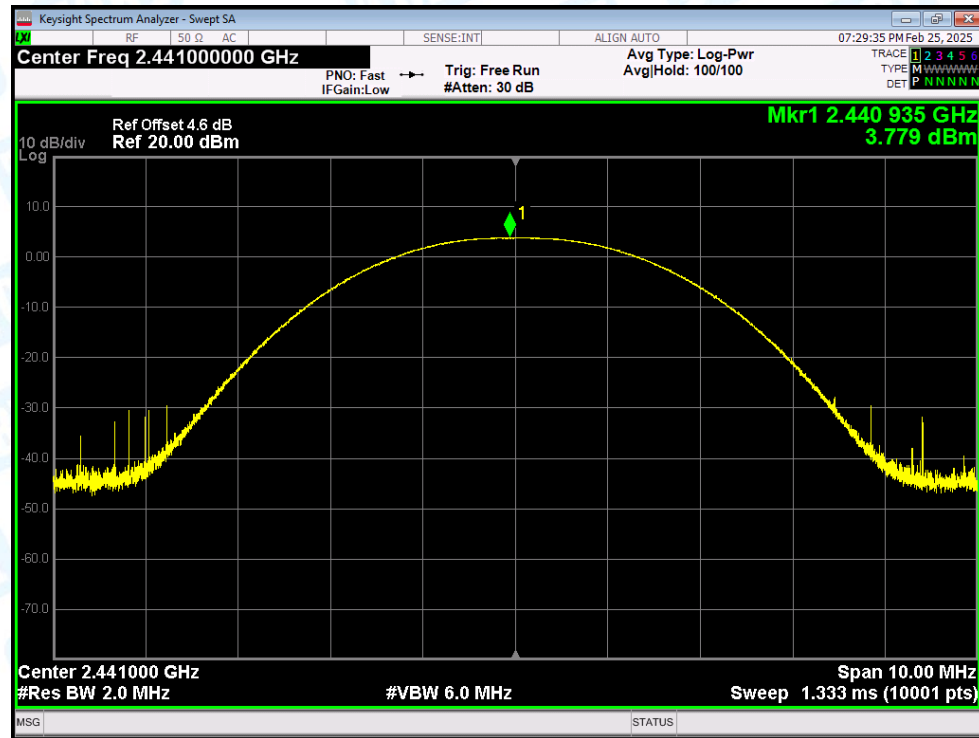
Power NVNT 1-DH1 2480MHz Ant1



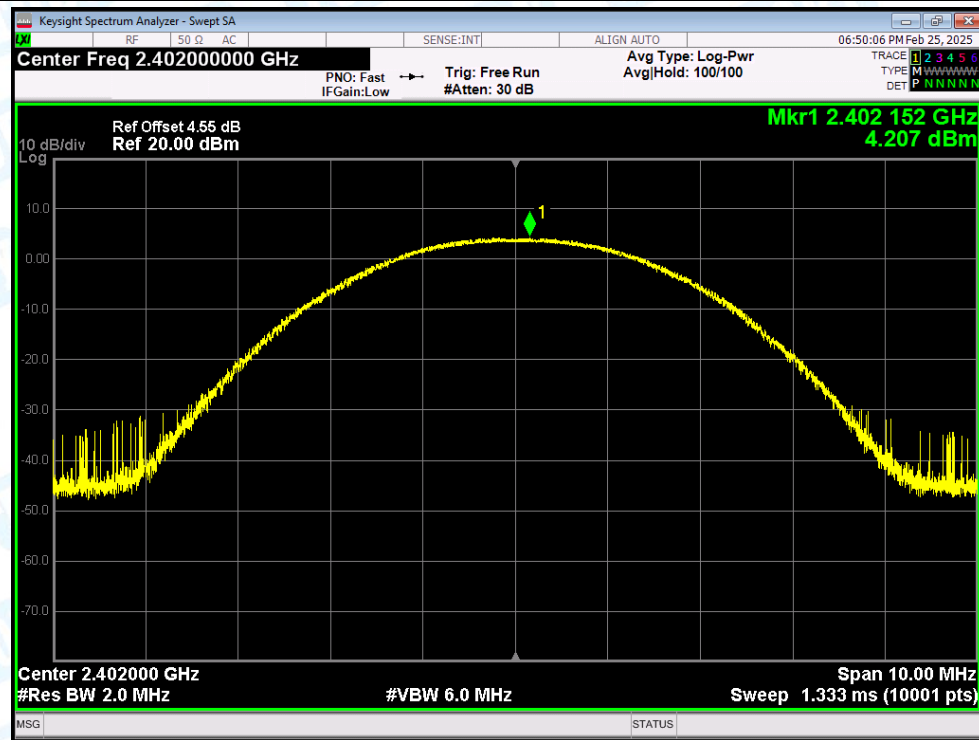
Power NVNT 1-DH3 2441MHz Ant1



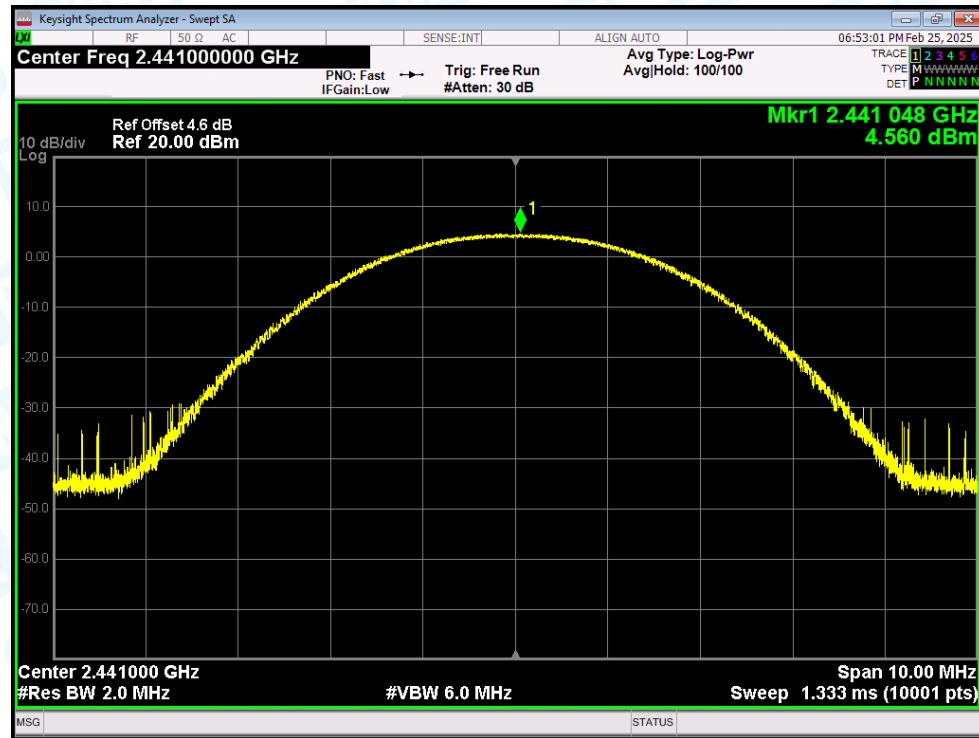
Power NVNT 1-DH5 2441MHz Ant1



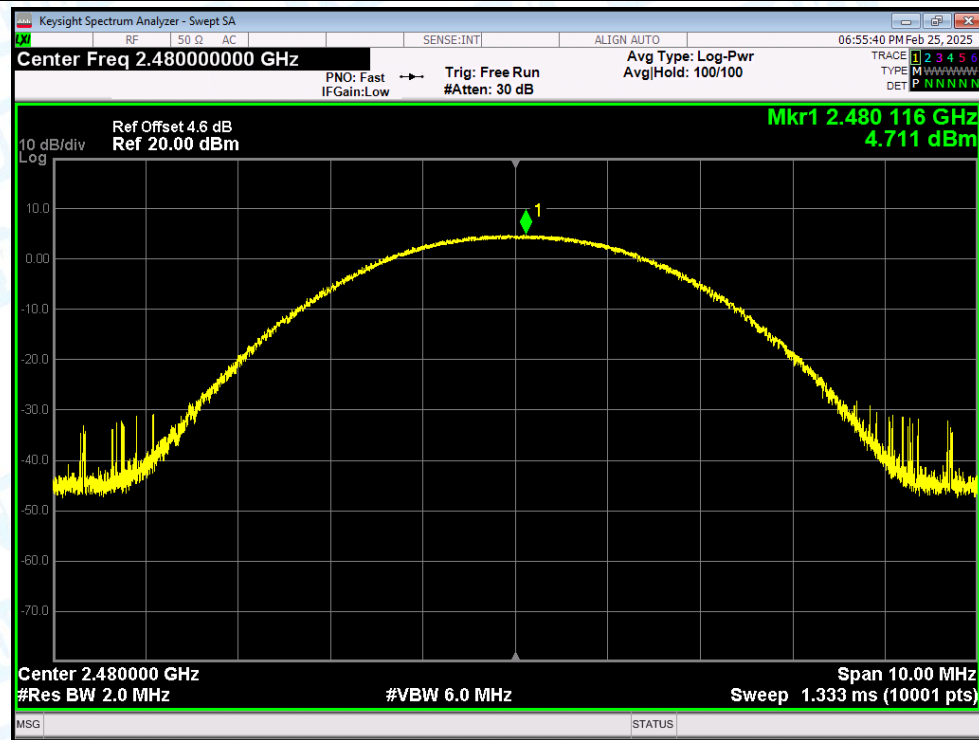
Power NVNT 2-DH1 2402MHz Ant1



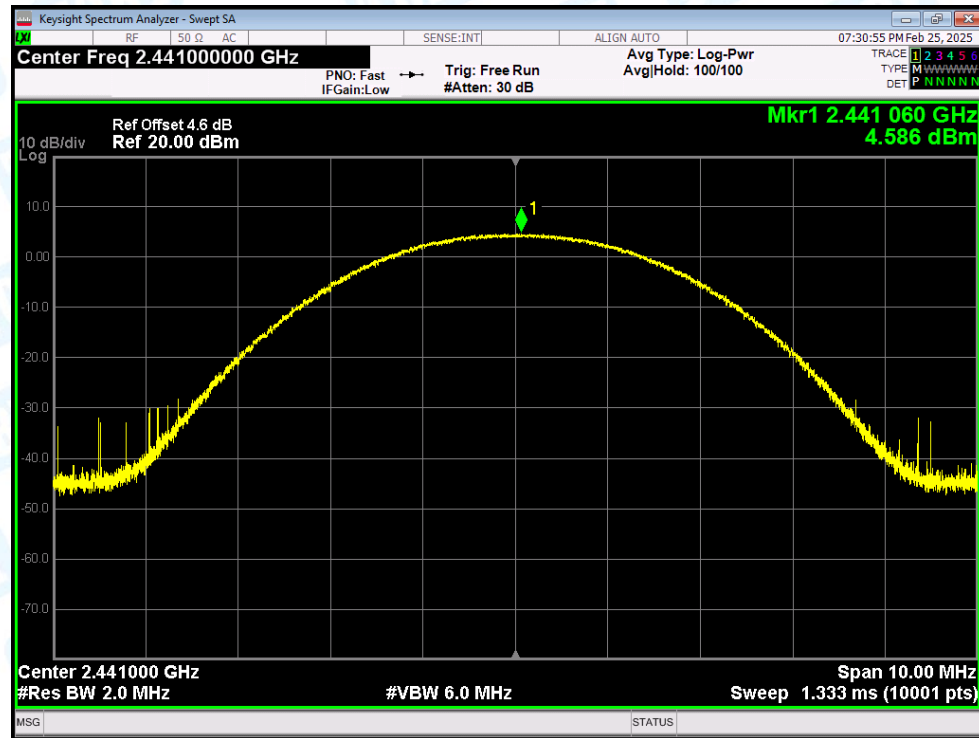
Power NVNT 2-DH1 2441MHz Ant1



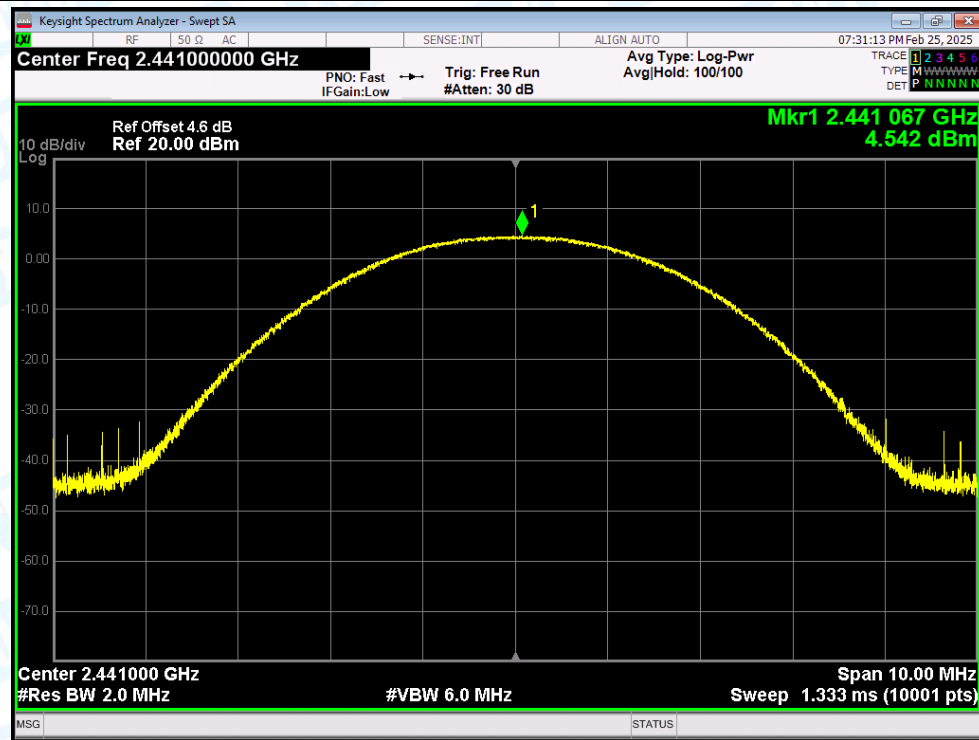
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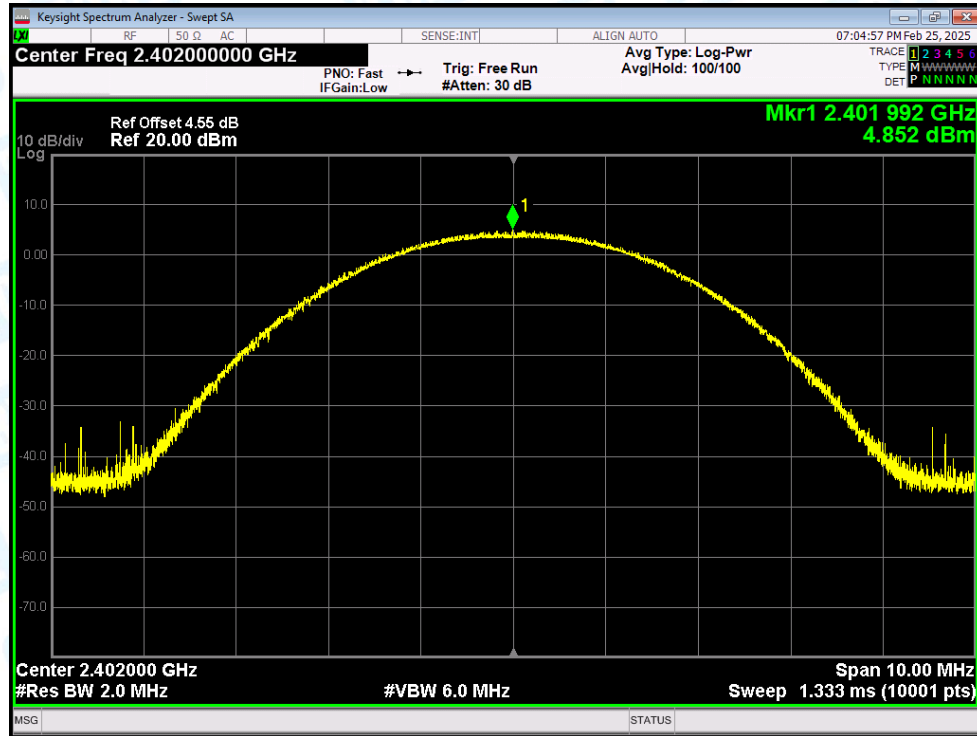
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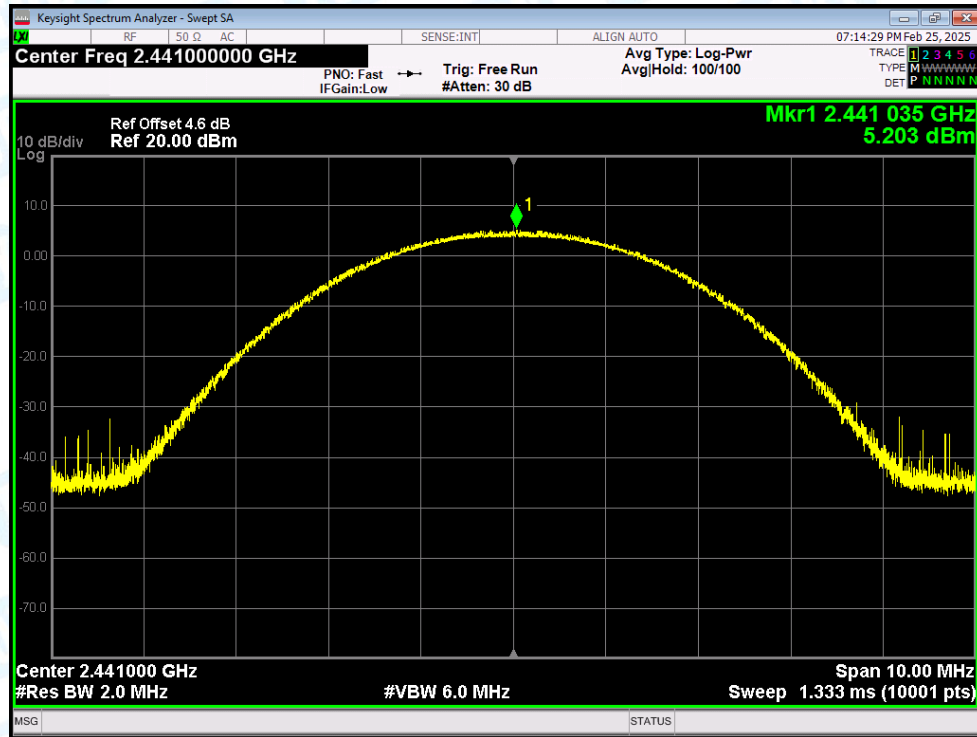
Power NVNT 2-DH5 2441MHz Ant1



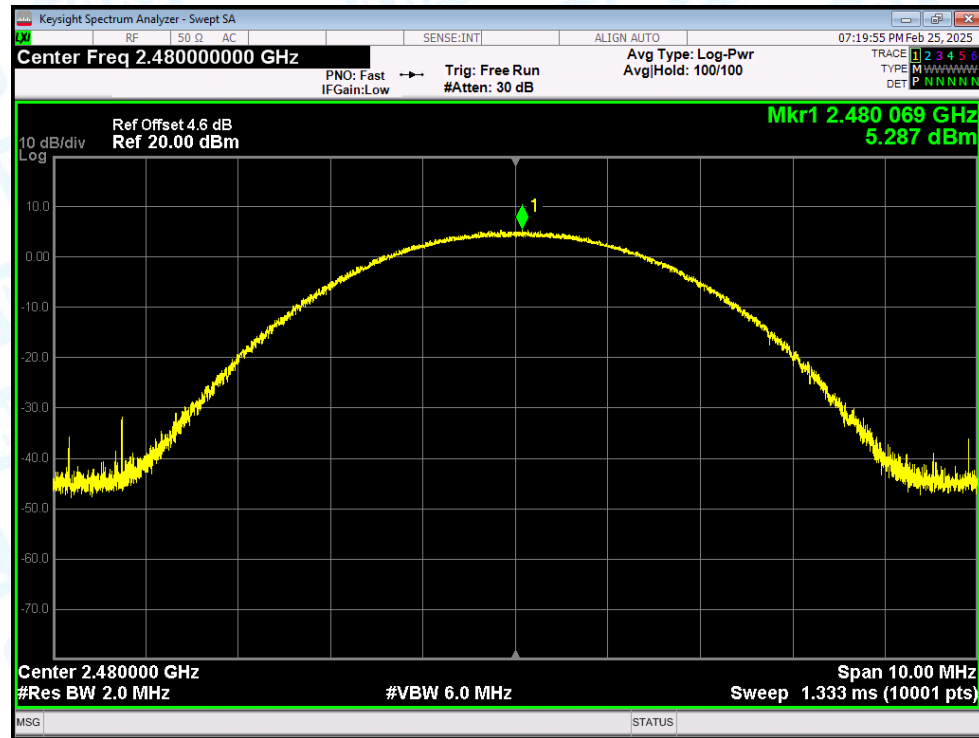
Power NVNT 3-DH1 2402MHz Ant1



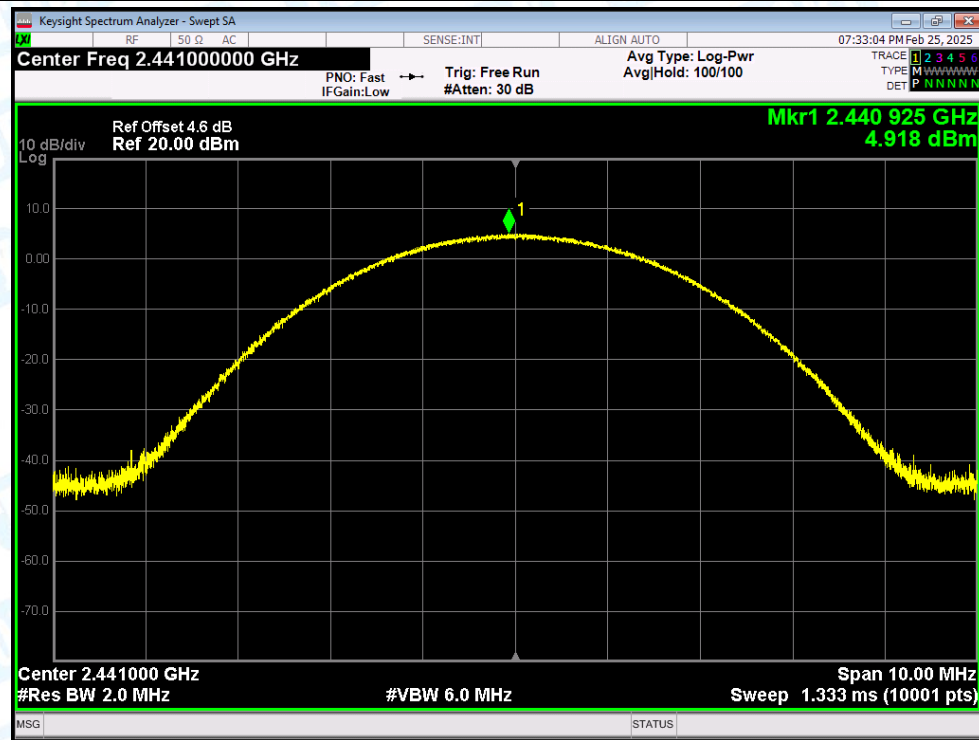
Power NVNT 3-DH1 2441MHz Ant1

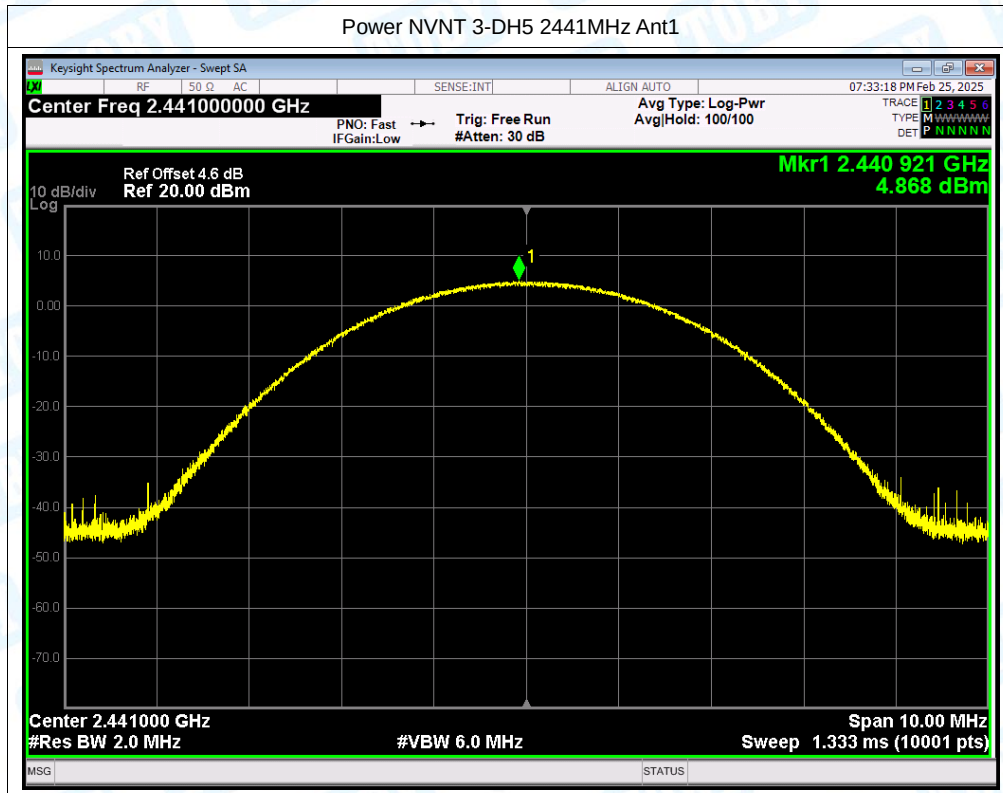


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



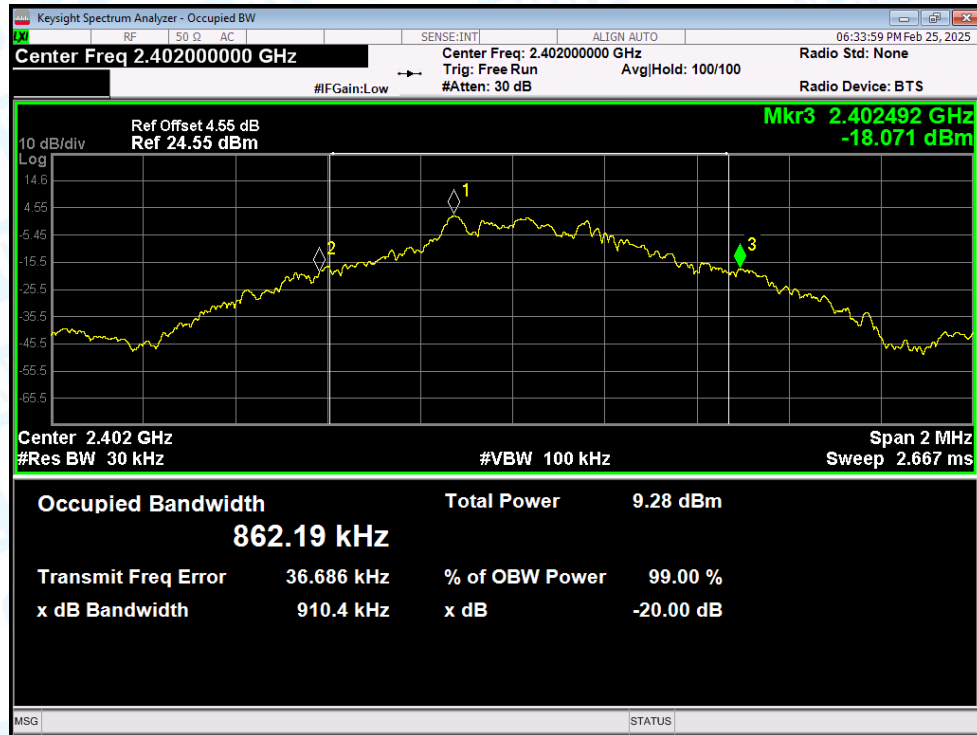


3. -20dB Bandwidth

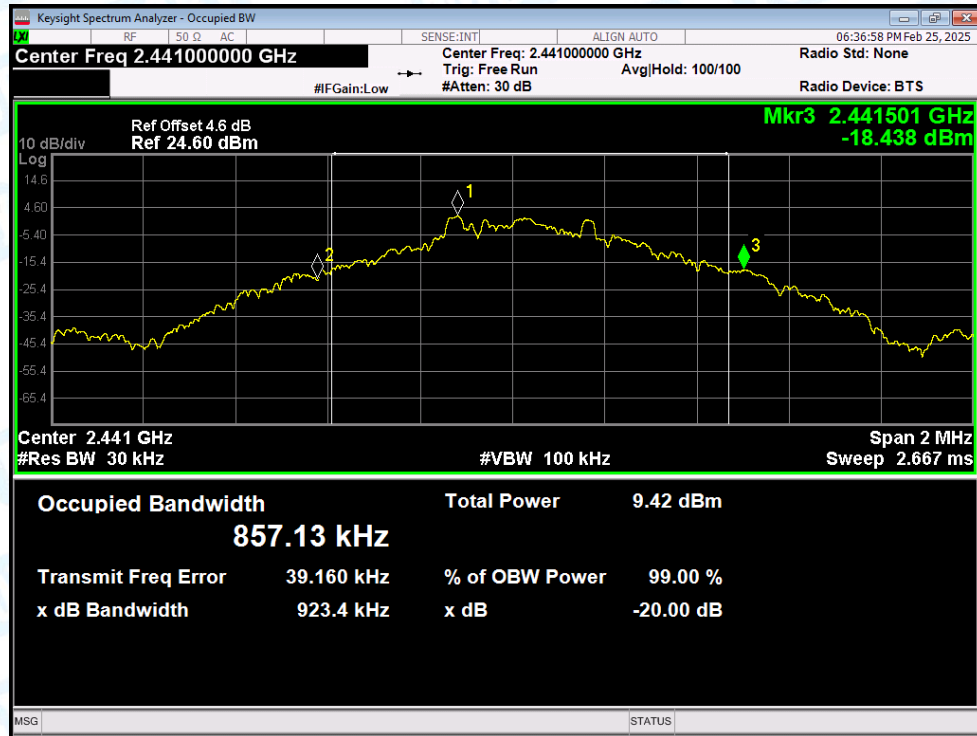
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.91	0	Pass
NVNT	1-DH1	2441	Ant1	0.92	0	Pass
NVNT	1-DH1	2480	Ant1	0.85	0	Pass
NVNT	2-DH1	2402	Ant1	1.24	0	Pass
NVNT	2-DH1	2441	Ant1	1.27	0	Pass
NVNT	2-DH1	2480	Ant1	1.25	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.24	0	Pass
NVNT	3-DH1	2480	Ant1	1.23	0	Pass

Test Graphs

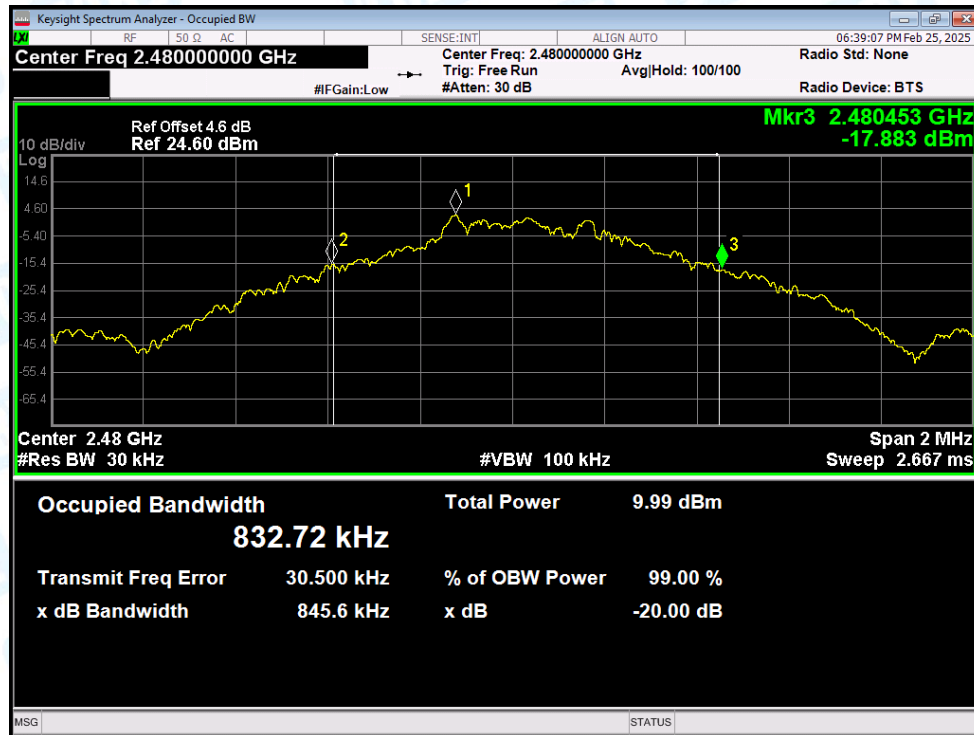
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



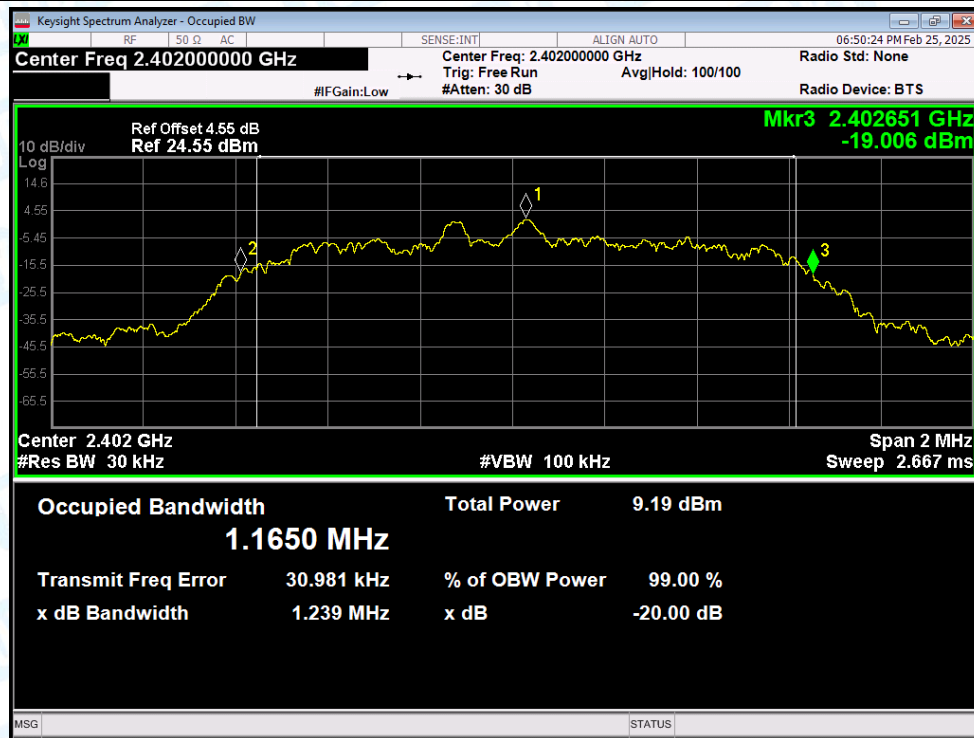
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



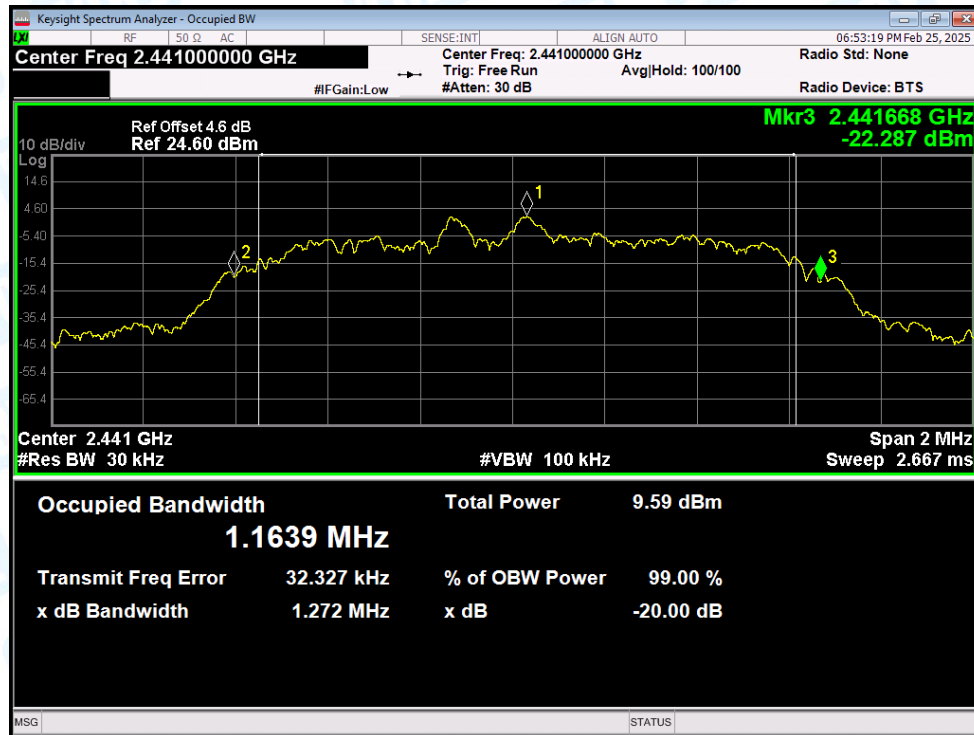
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



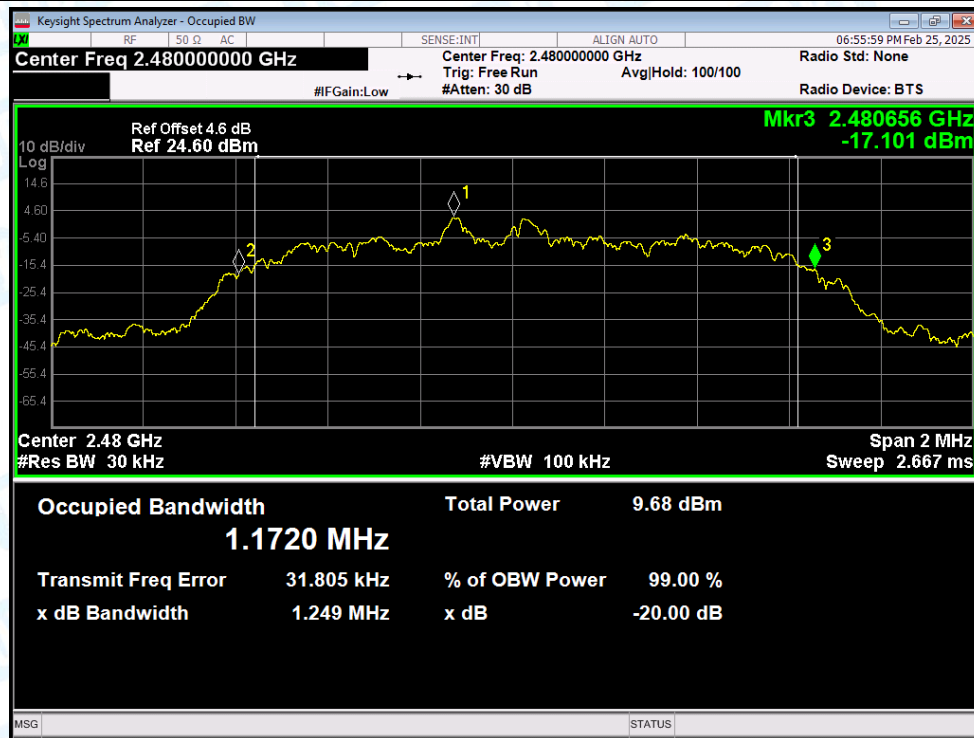
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



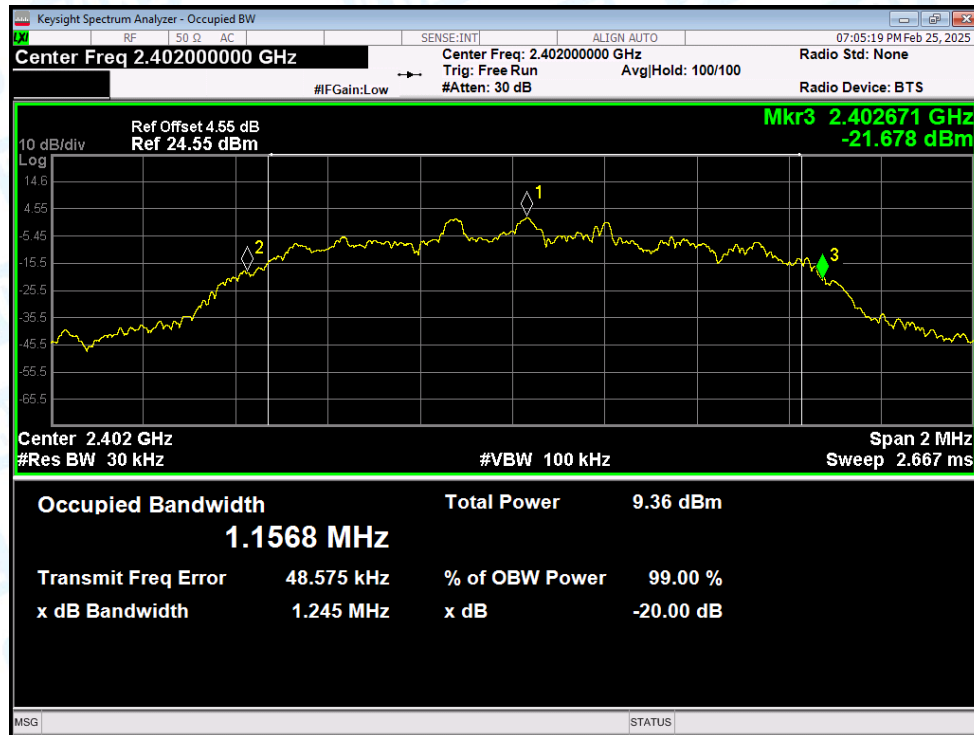
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



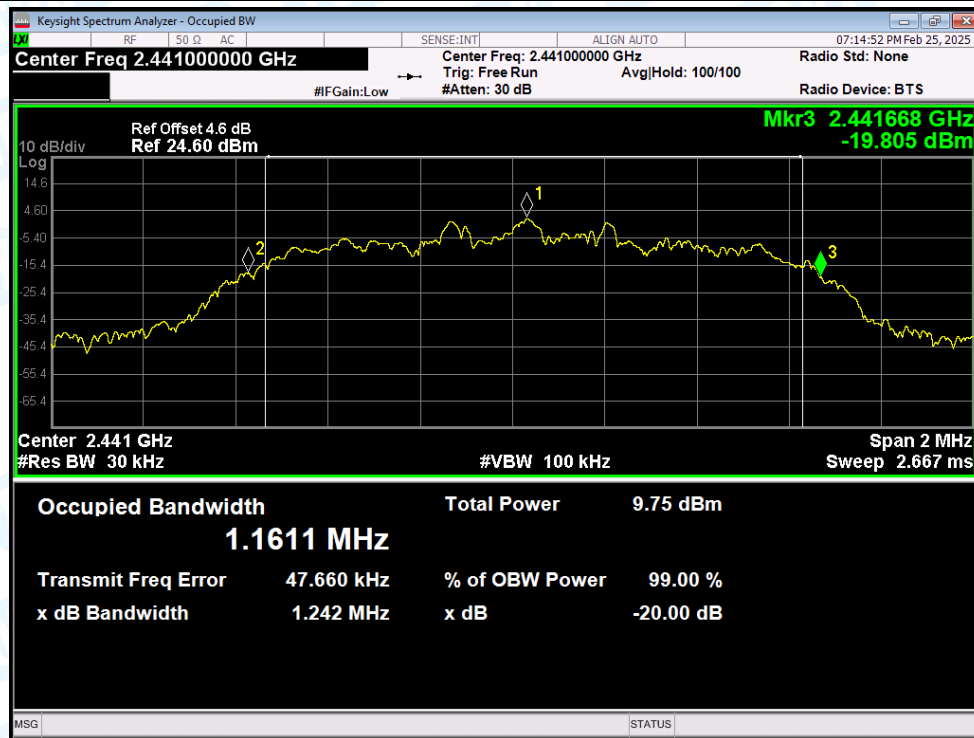
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

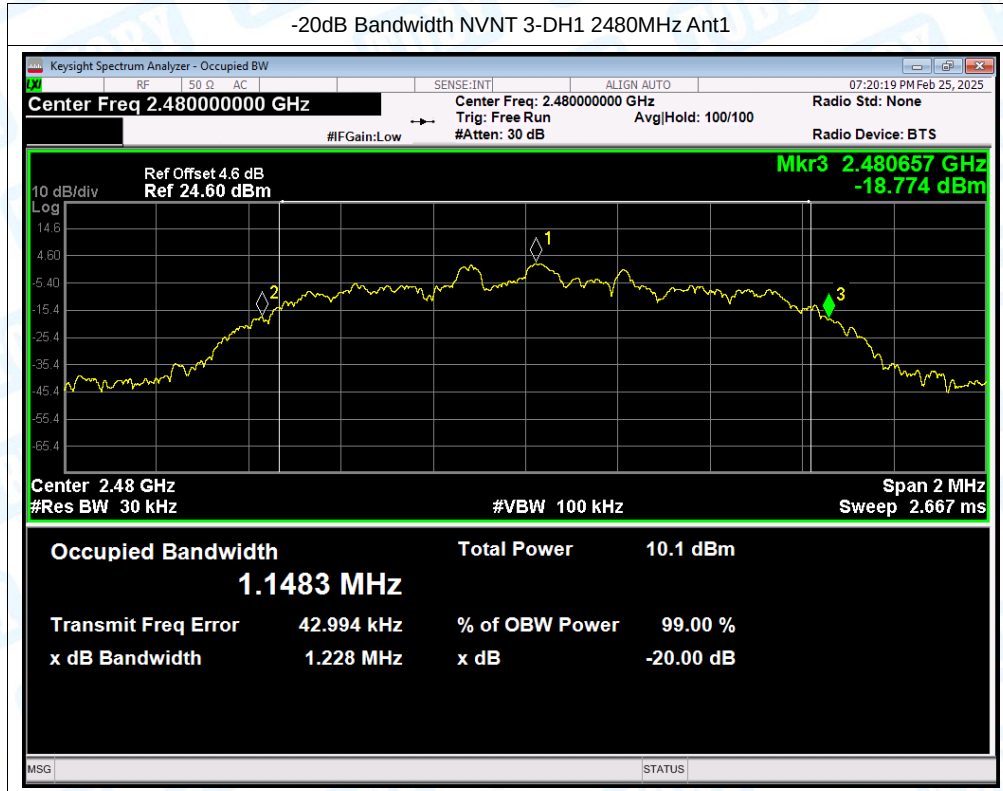


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



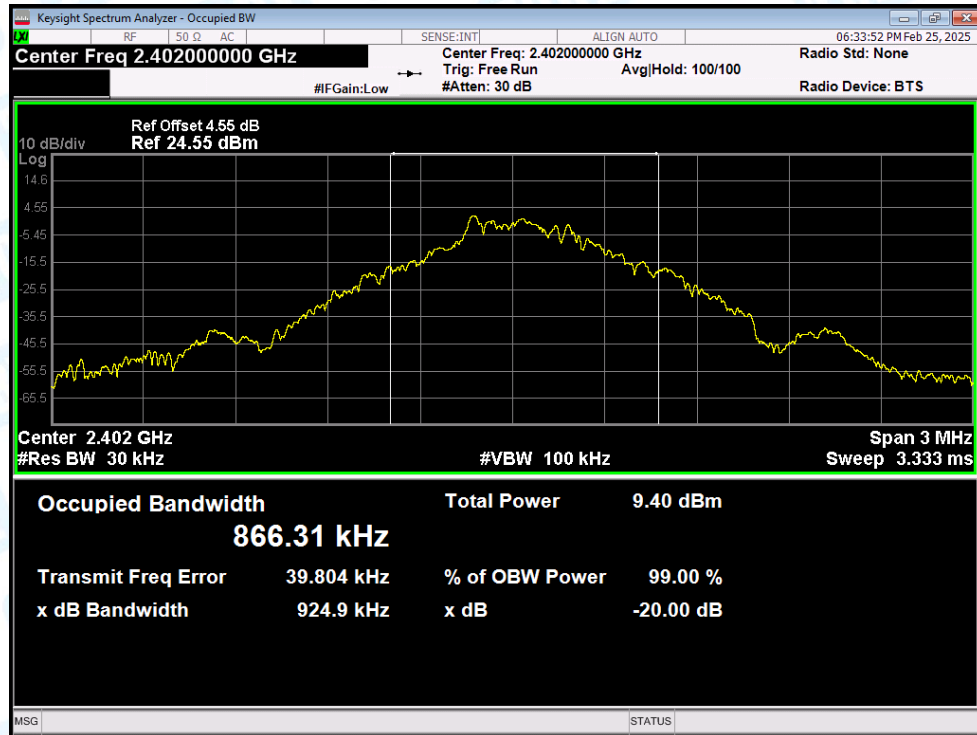


4. Occupied Channel Bandwidth

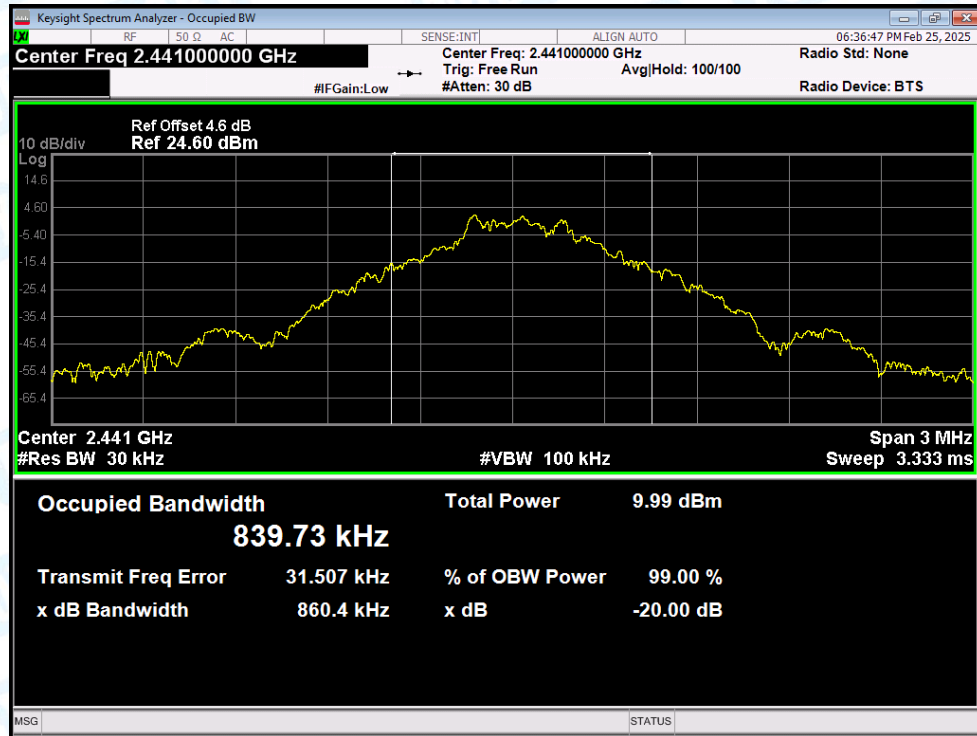
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.866
NVNT	1-DH1	2441	Ant1	0.84
NVNT	1-DH1	2480	Ant1	0.835
NVNT	2-DH1	2402	Ant1	1.17
NVNT	2-DH1	2441	Ant1	1.157
NVNT	2-DH1	2480	Ant1	1.177
NVNT	3-DH1	2402	Ant1	1.161
NVNT	3-DH1	2441	Ant1	1.16
NVNT	3-DH1	2480	Ant1	1.147

Test Graphs

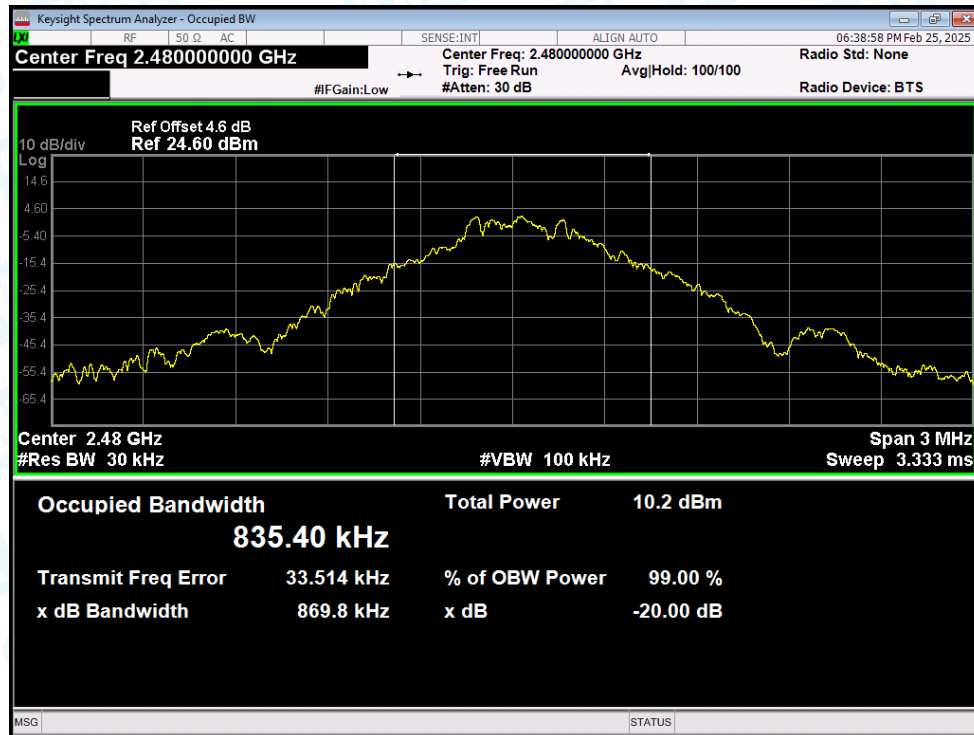
OBW NVNT 1-DH1 2402MHz Ant1



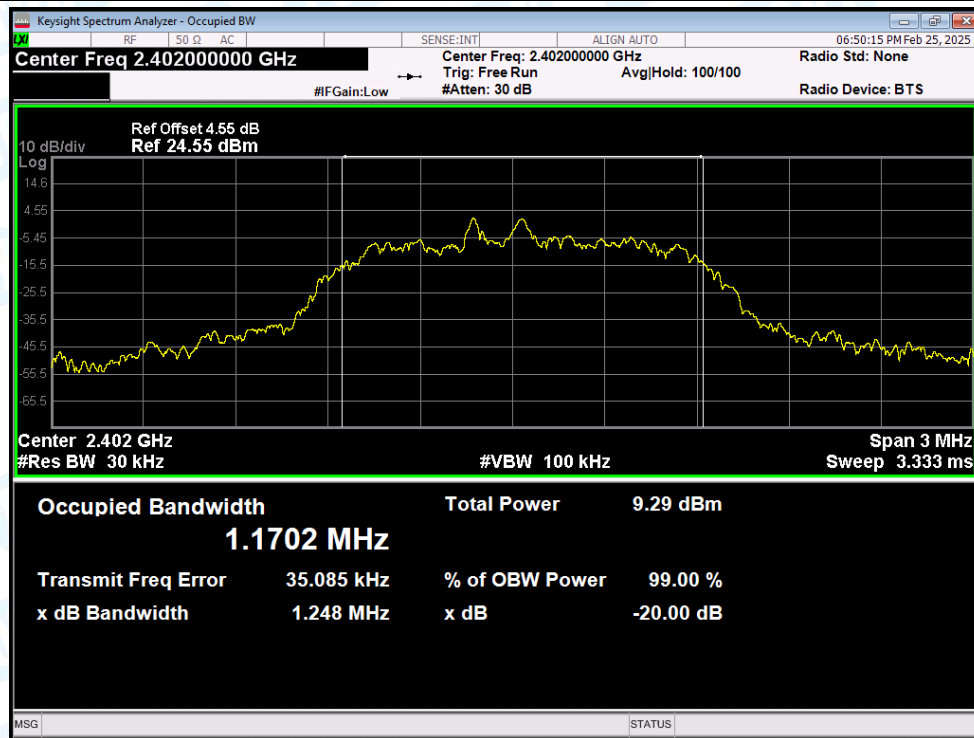
OBW NVNT 1-DH1 2441MHz Ant1



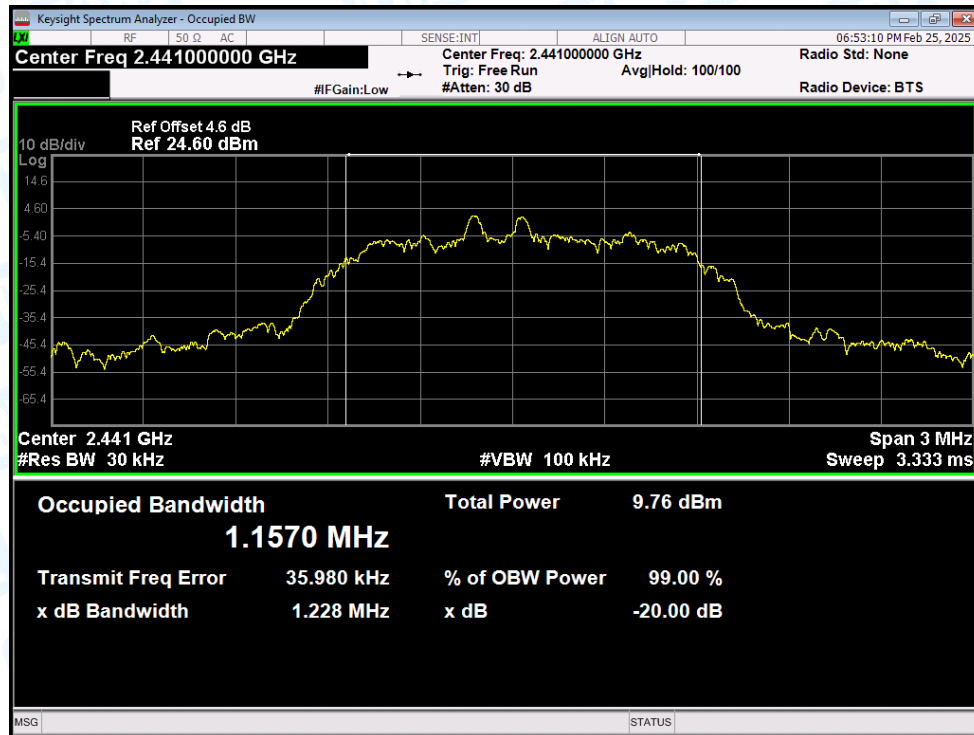
OBW NVNT 1-DH1 2480MHz Ant1



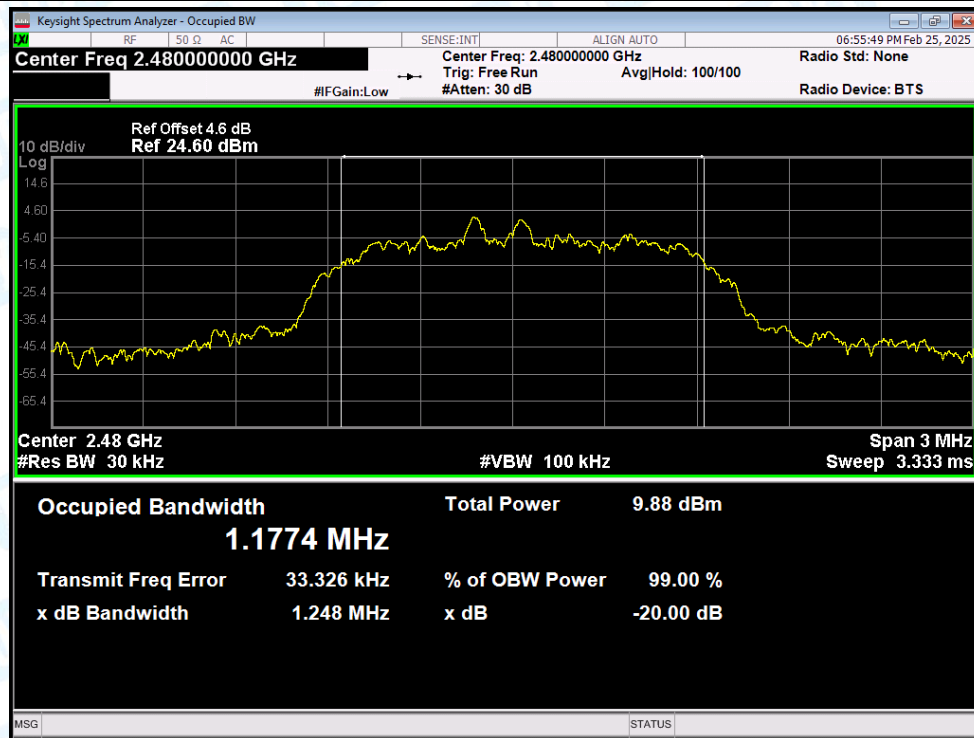
OBW NVNT 2-DH1 2402MHz Ant1



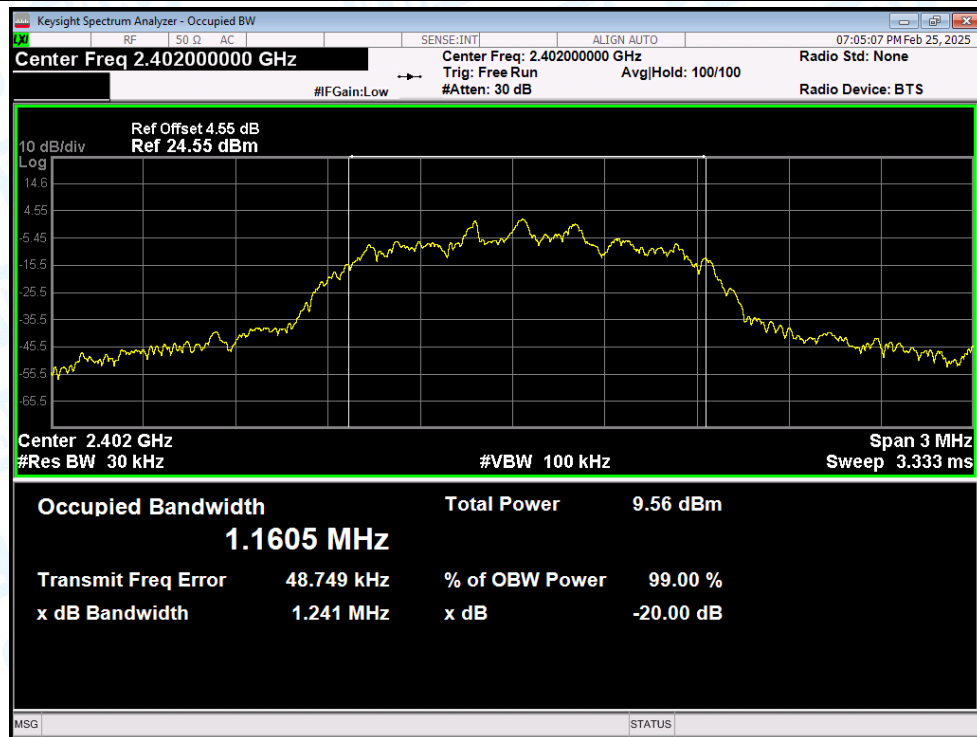
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1

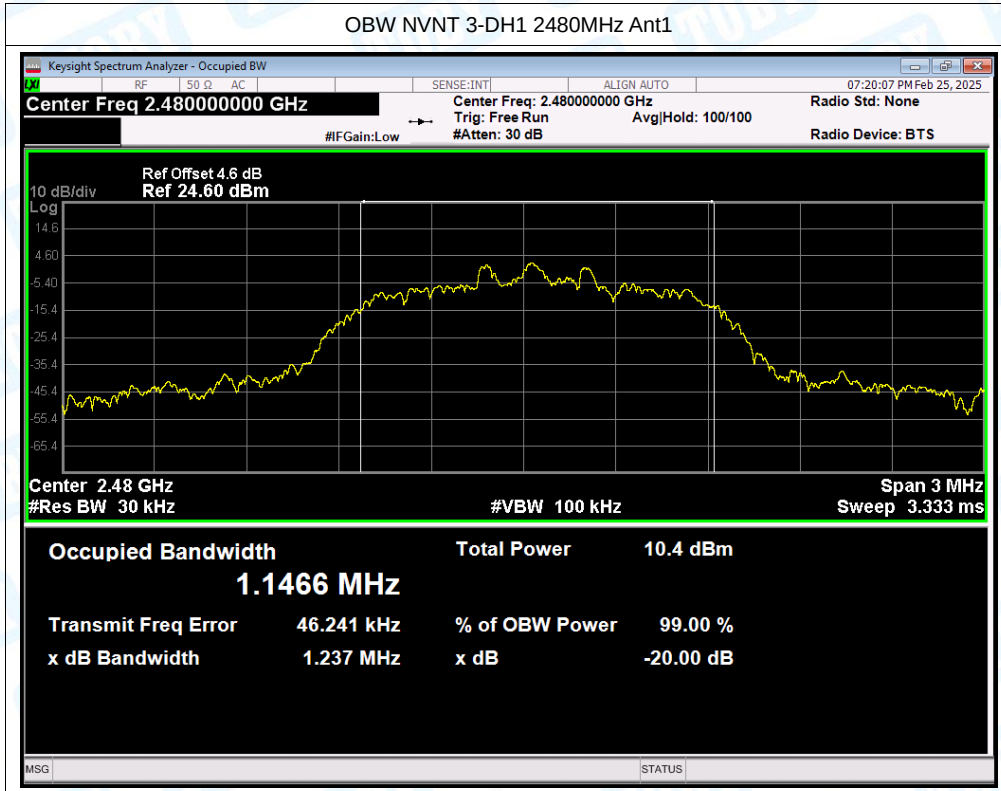


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



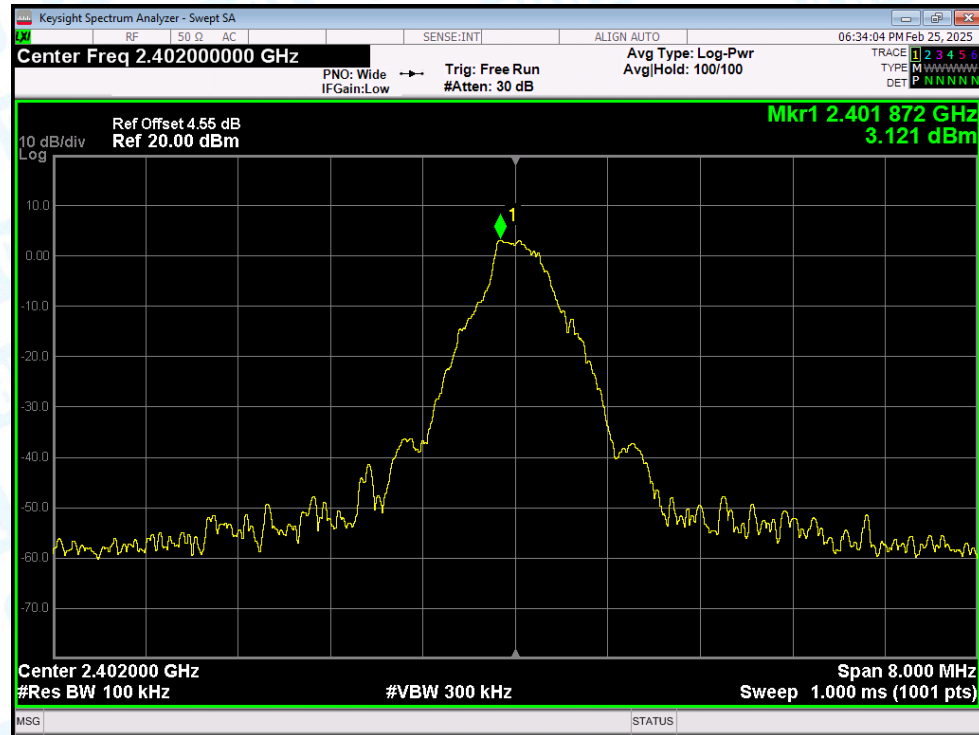


5. Band Edge

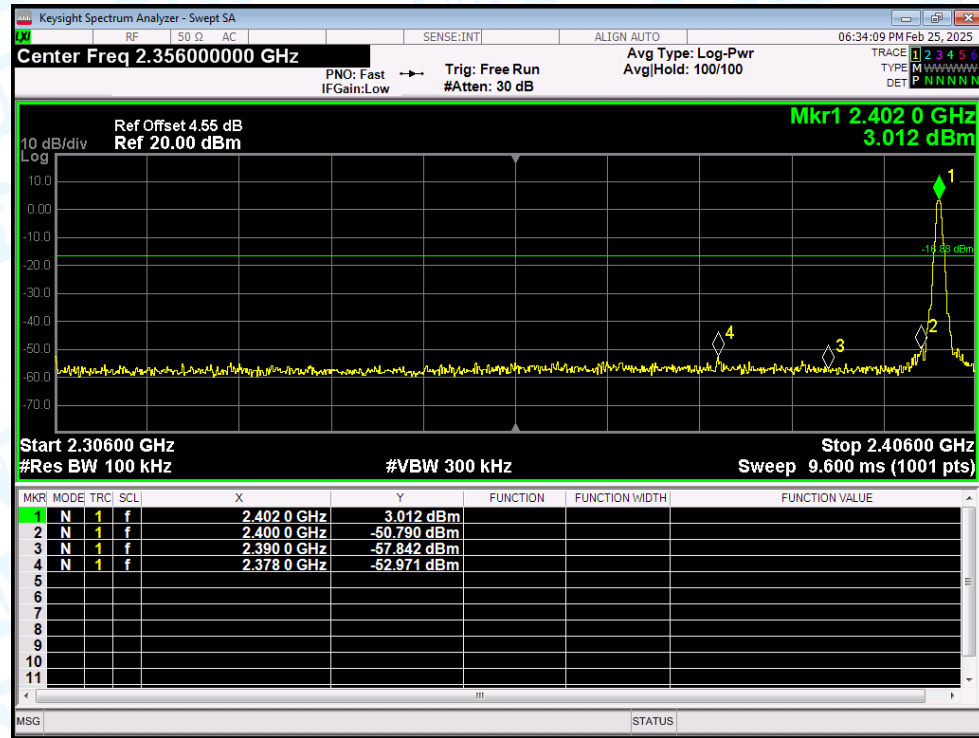
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-56.09	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-58.11	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-56.54	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-57.91	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-57	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-57.76	-20	Pass

Test Graphs

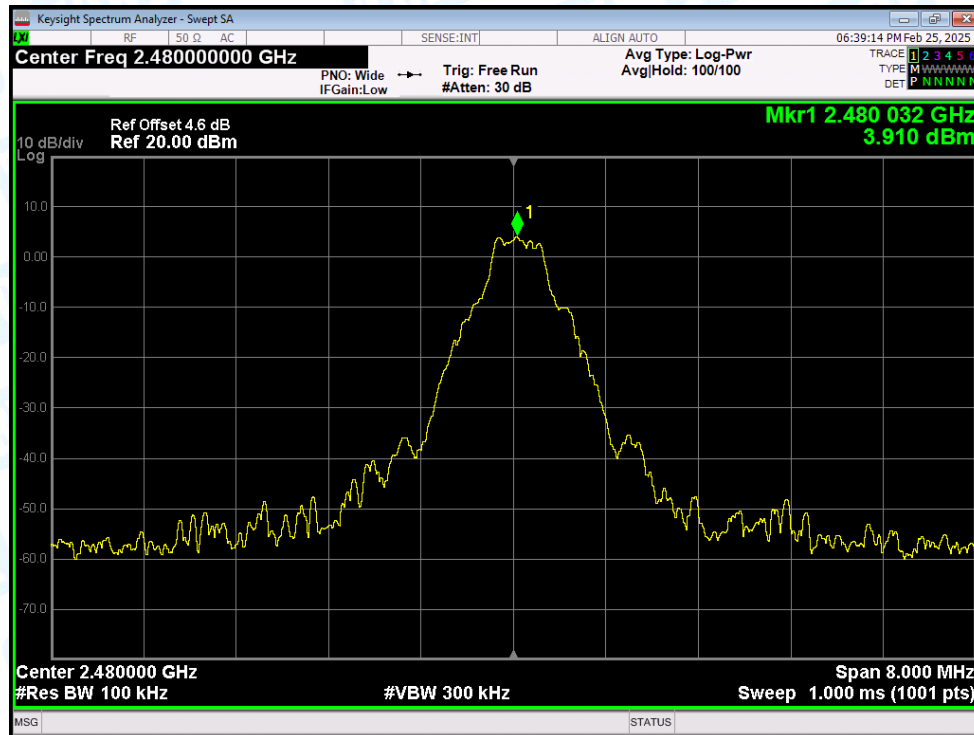
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



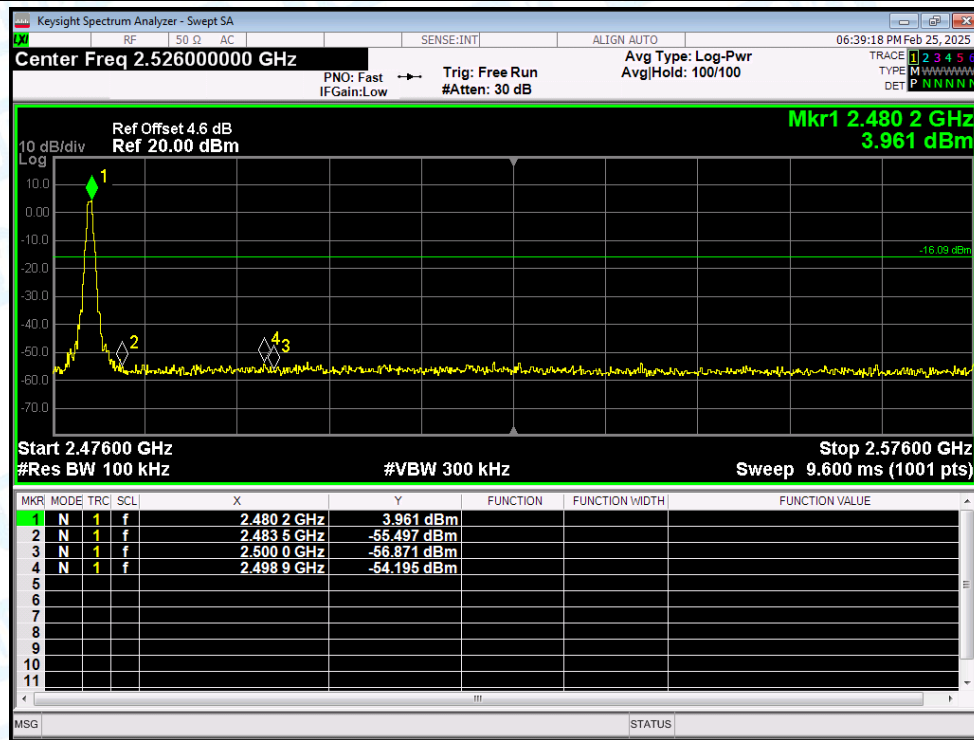
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



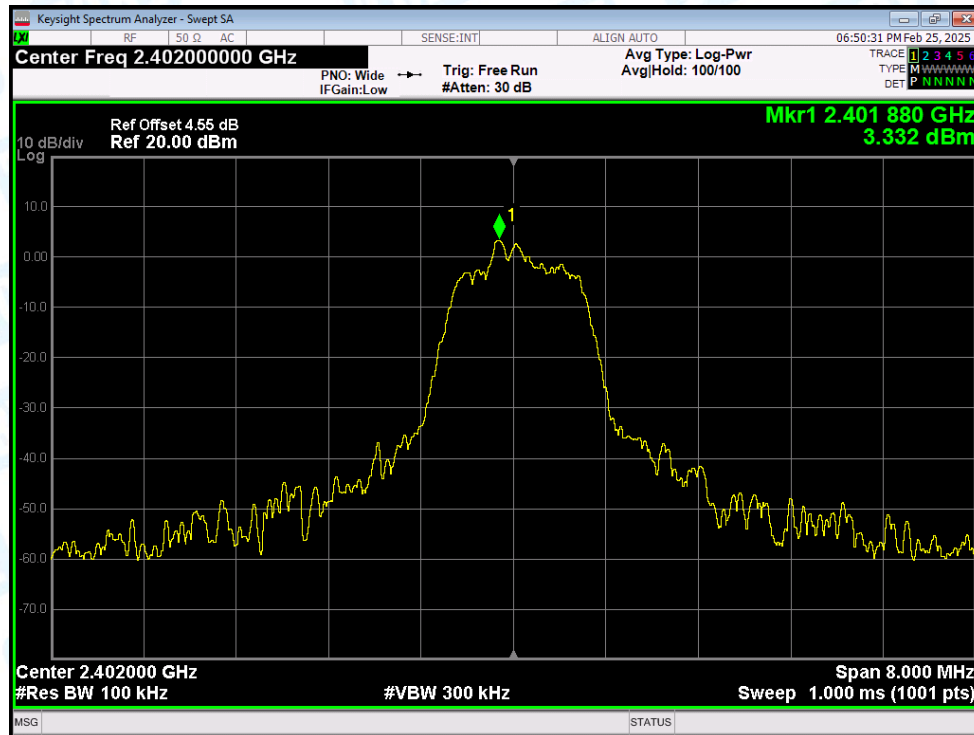
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



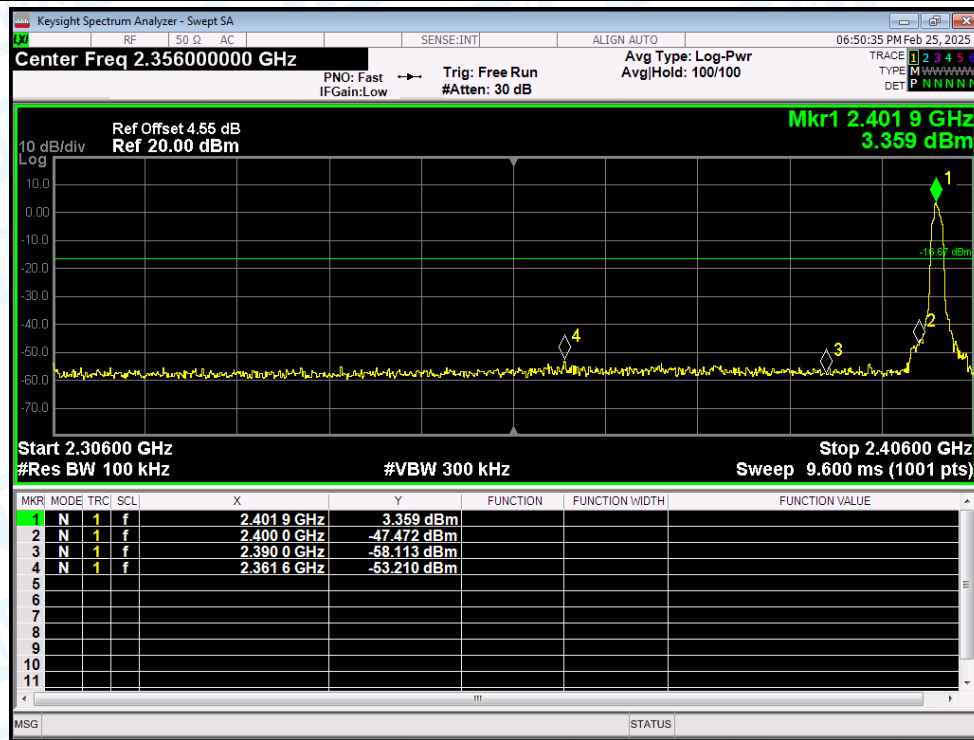
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



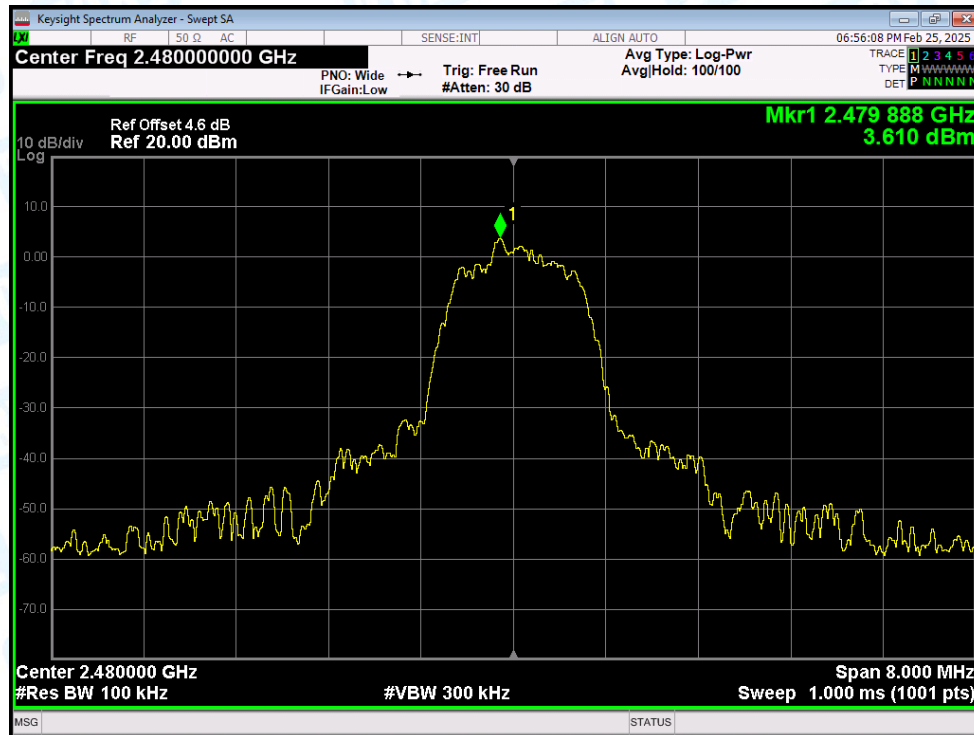
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



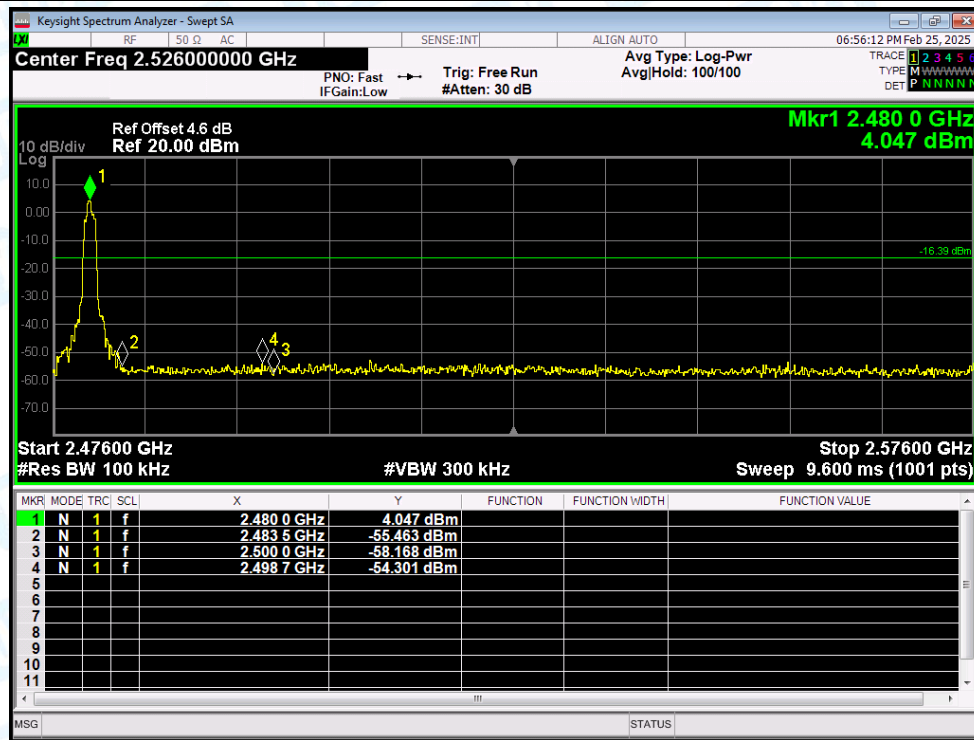
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



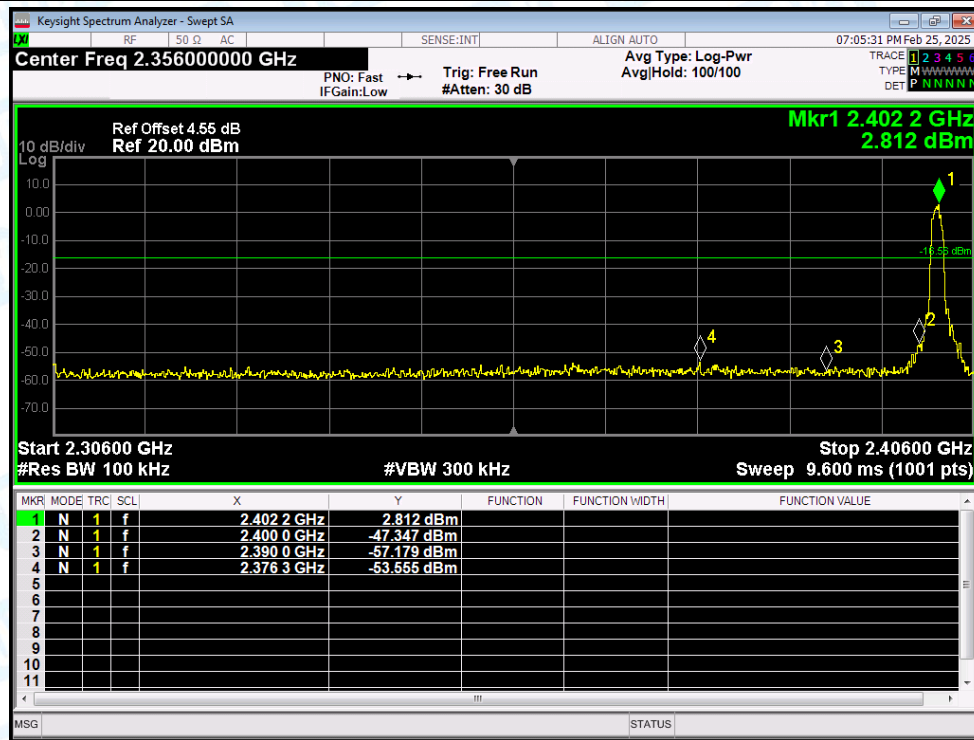
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



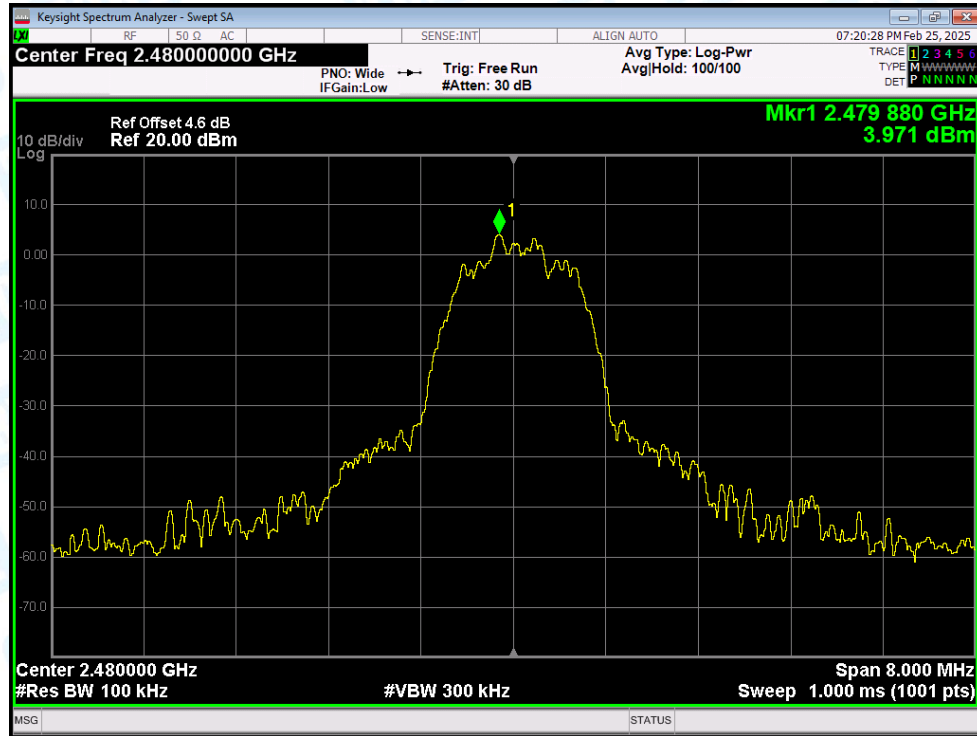
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



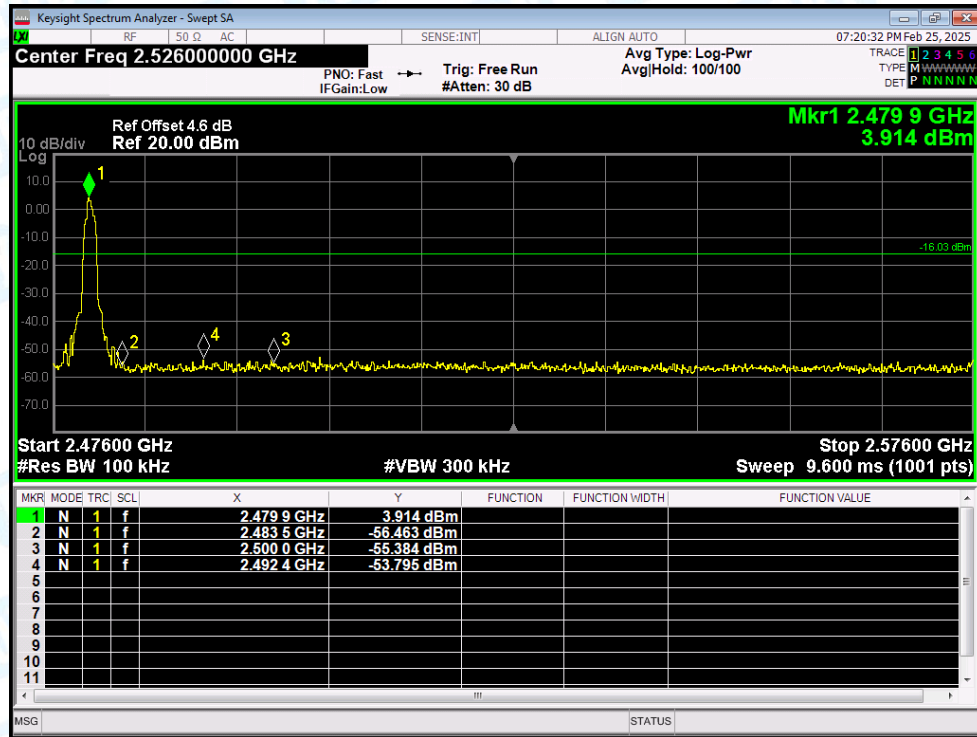
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

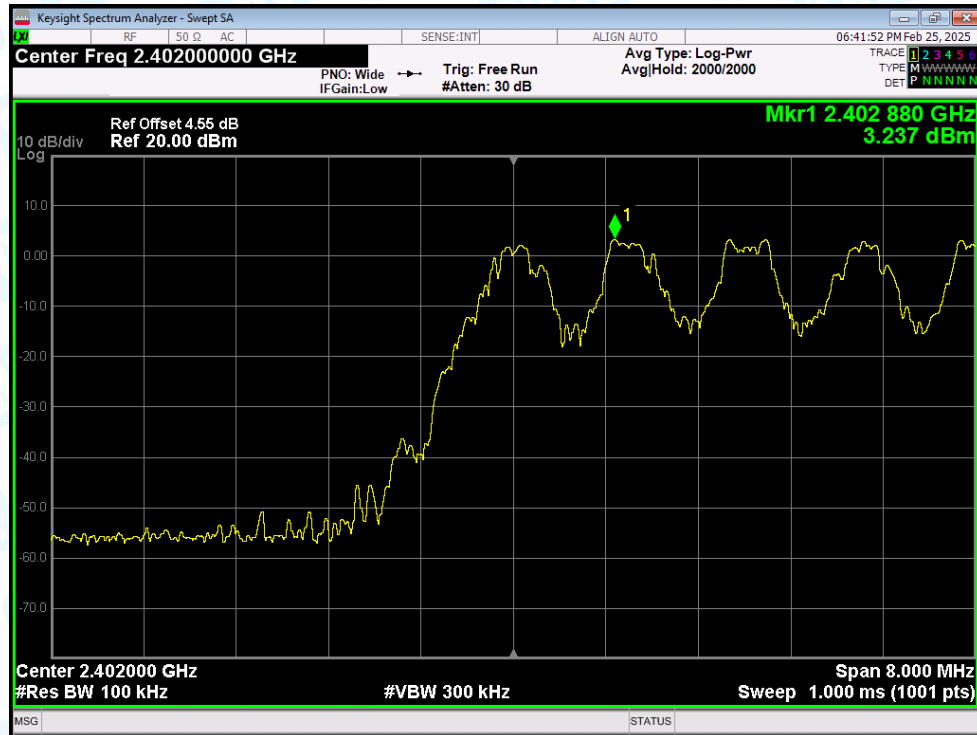


6. Band Edge(Hopping)

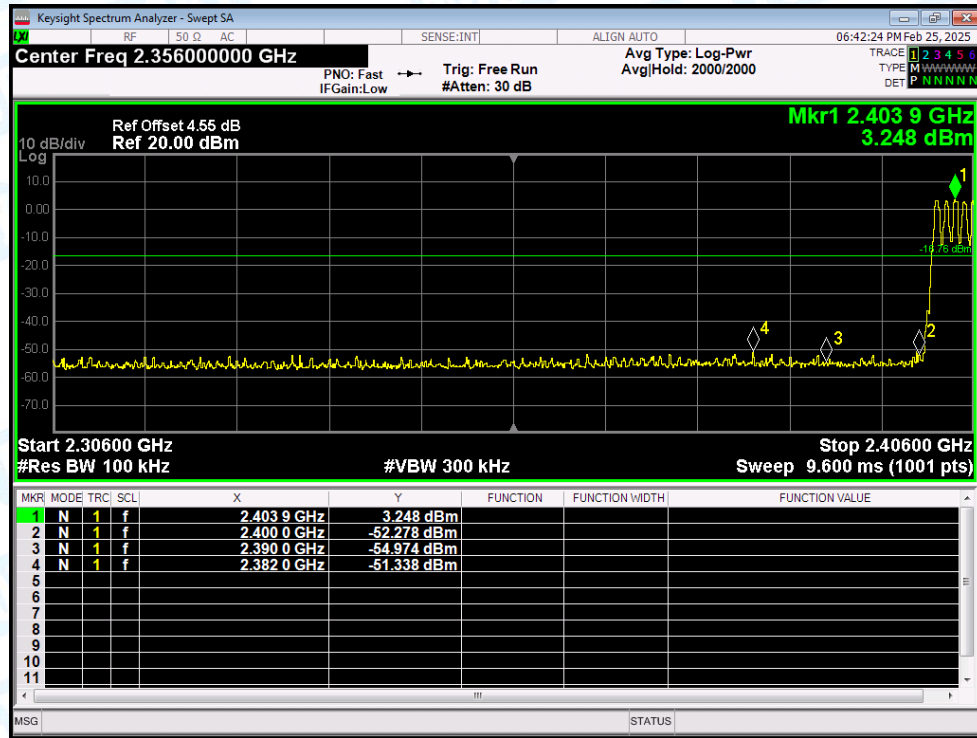
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-54.58	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-55.58	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-54.45	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-56.03	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.46	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-56.3	-20	Pass

Test Graphs

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



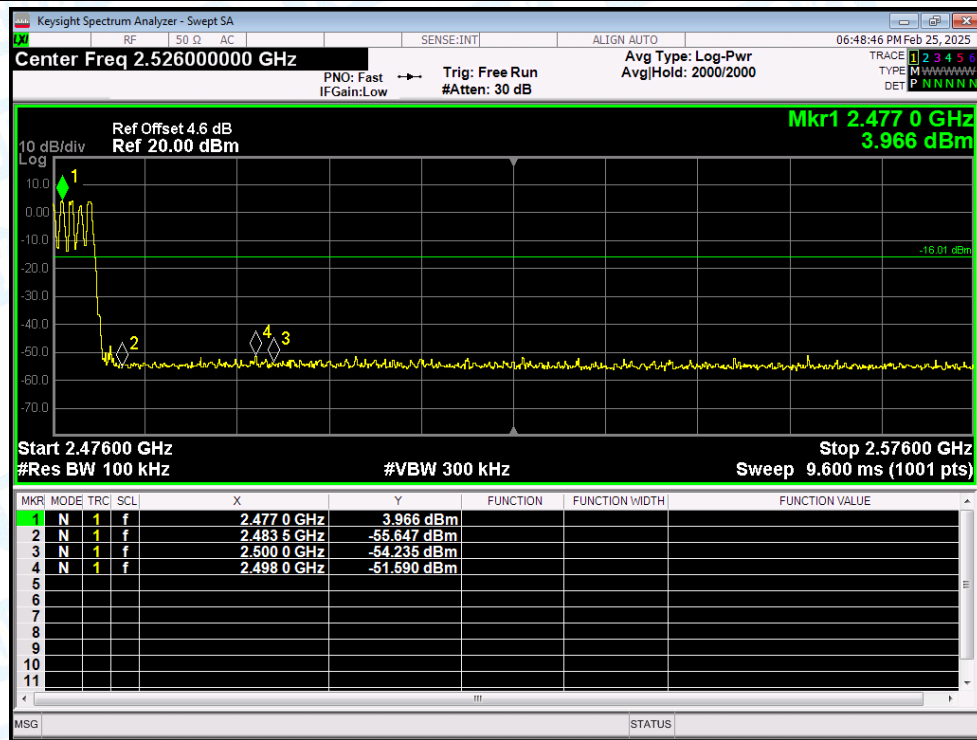
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



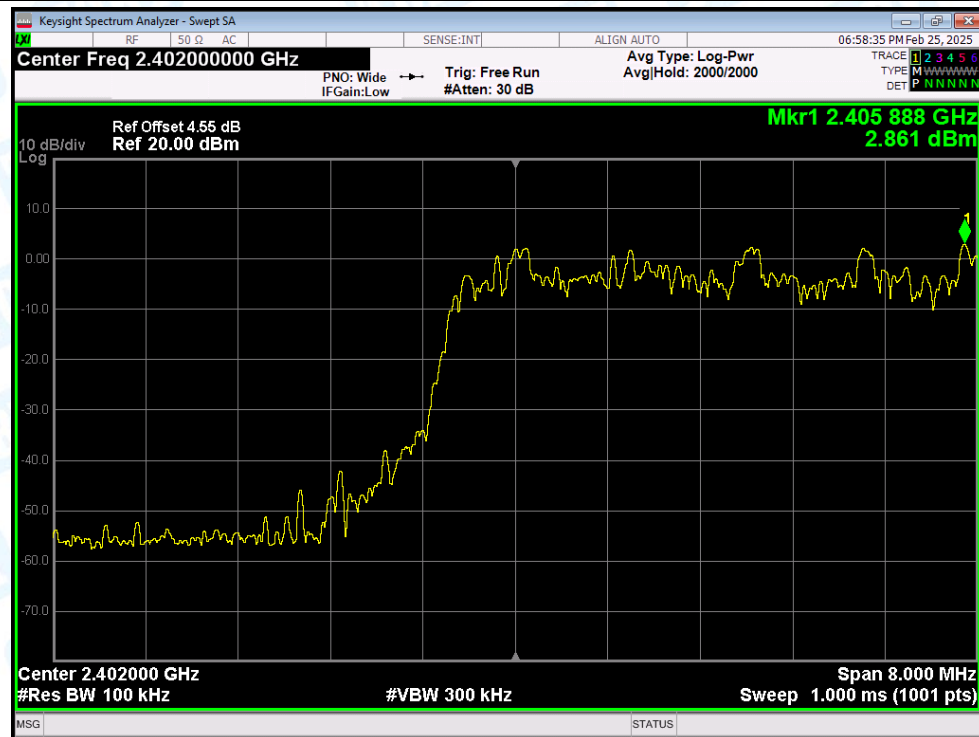
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



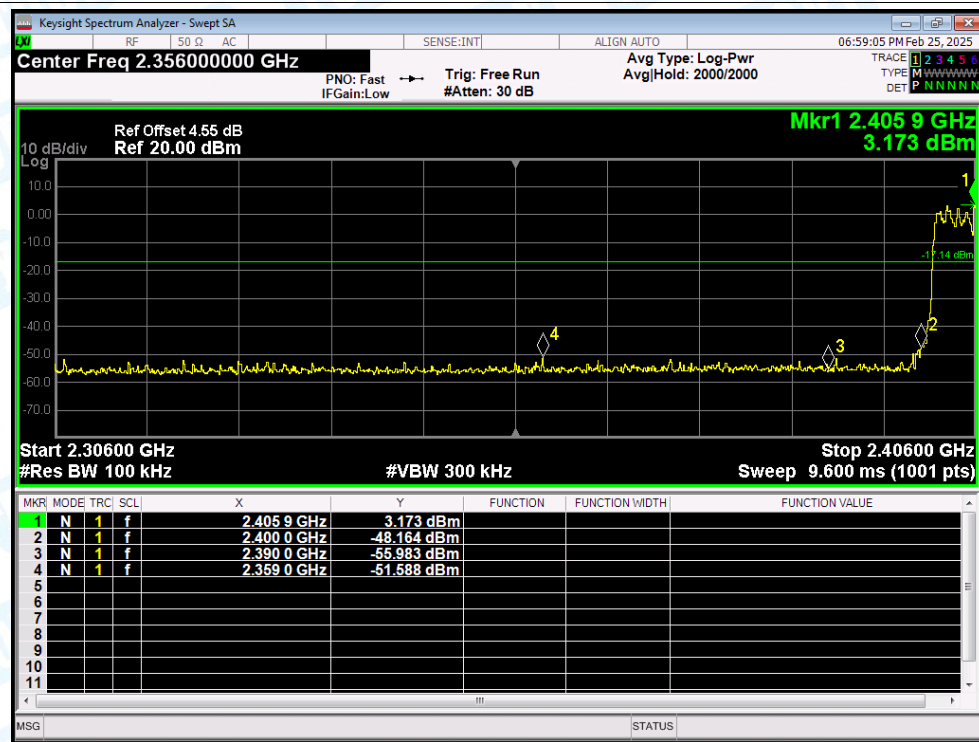
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



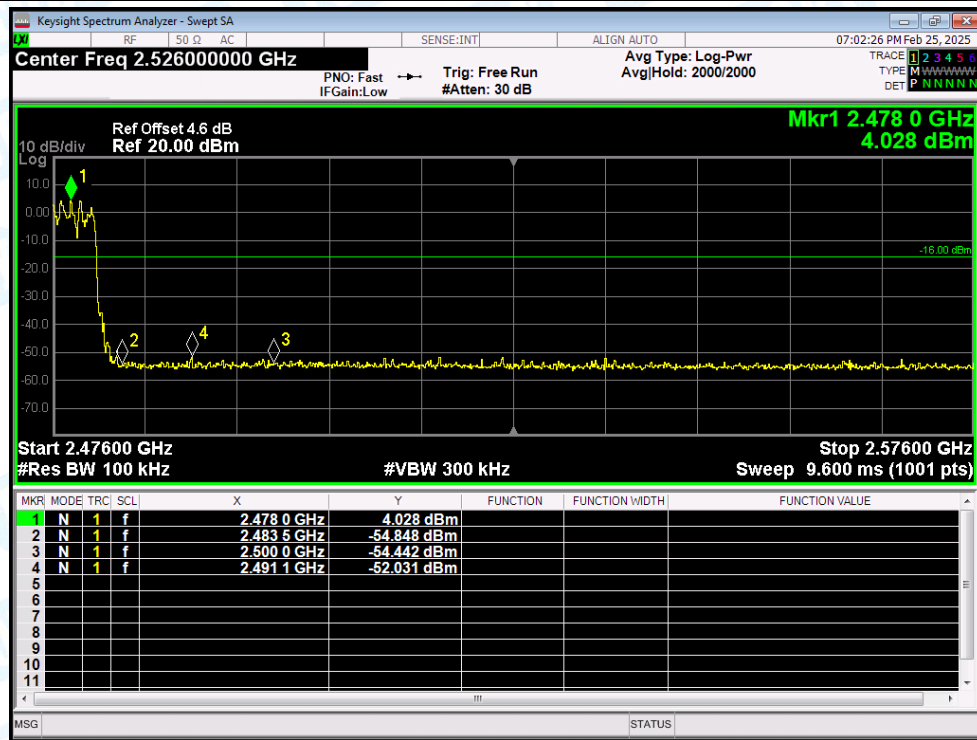
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



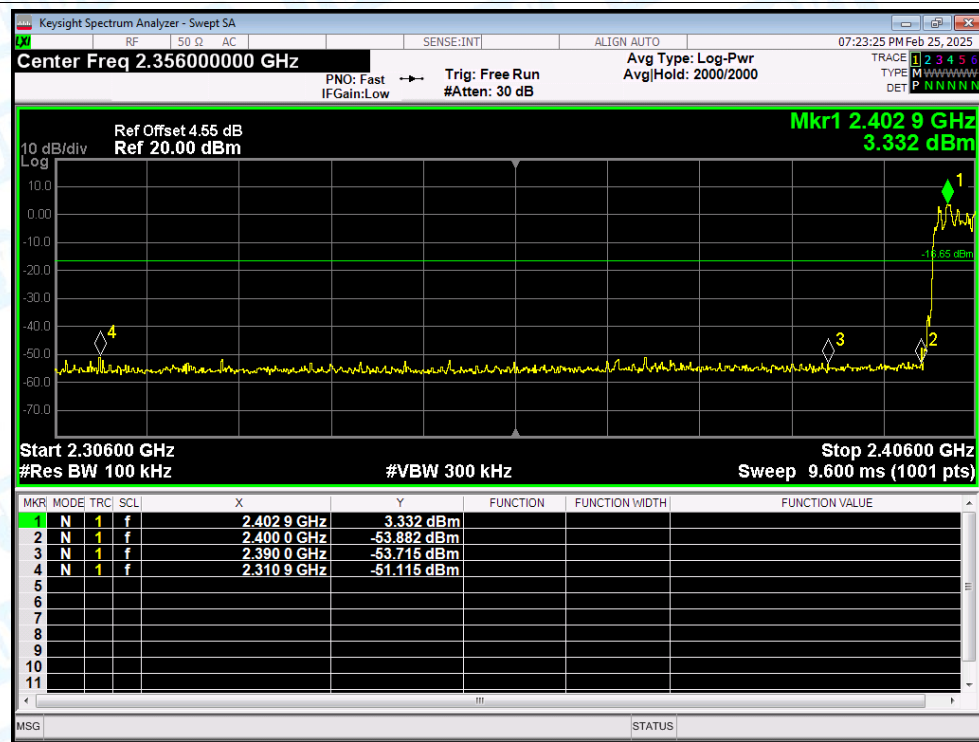
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



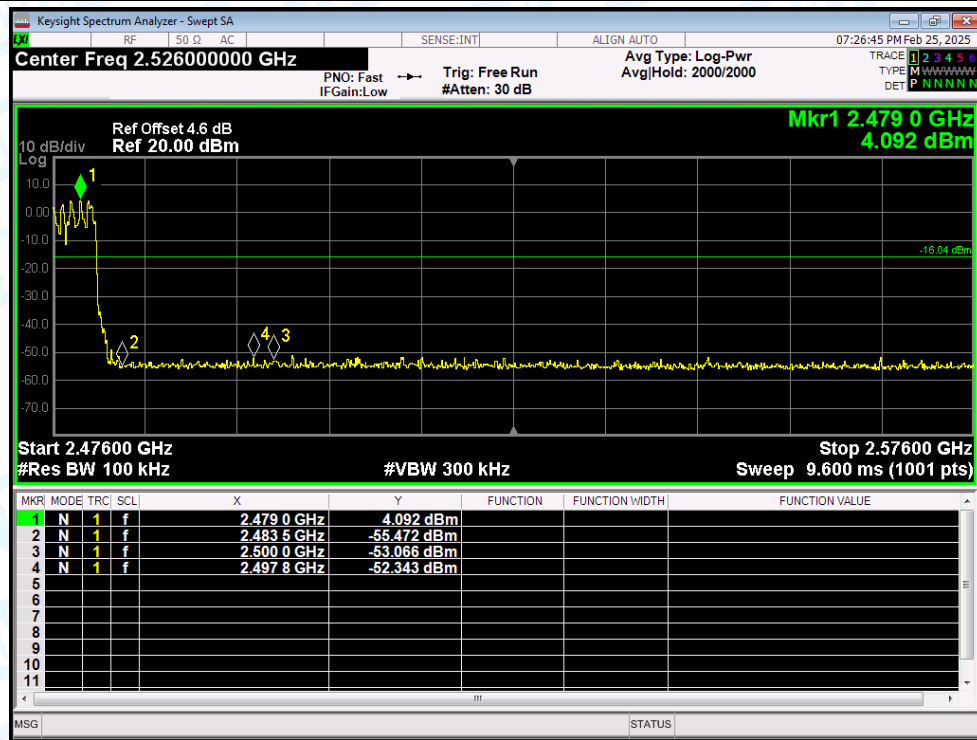
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

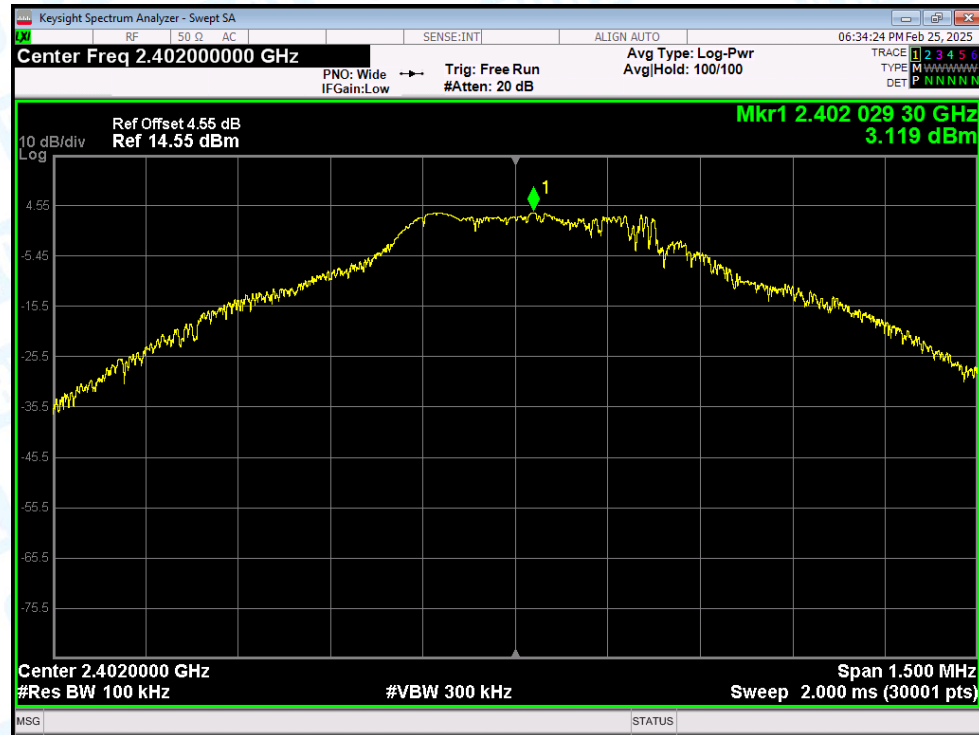


7. Conducted RF Spurious Emission

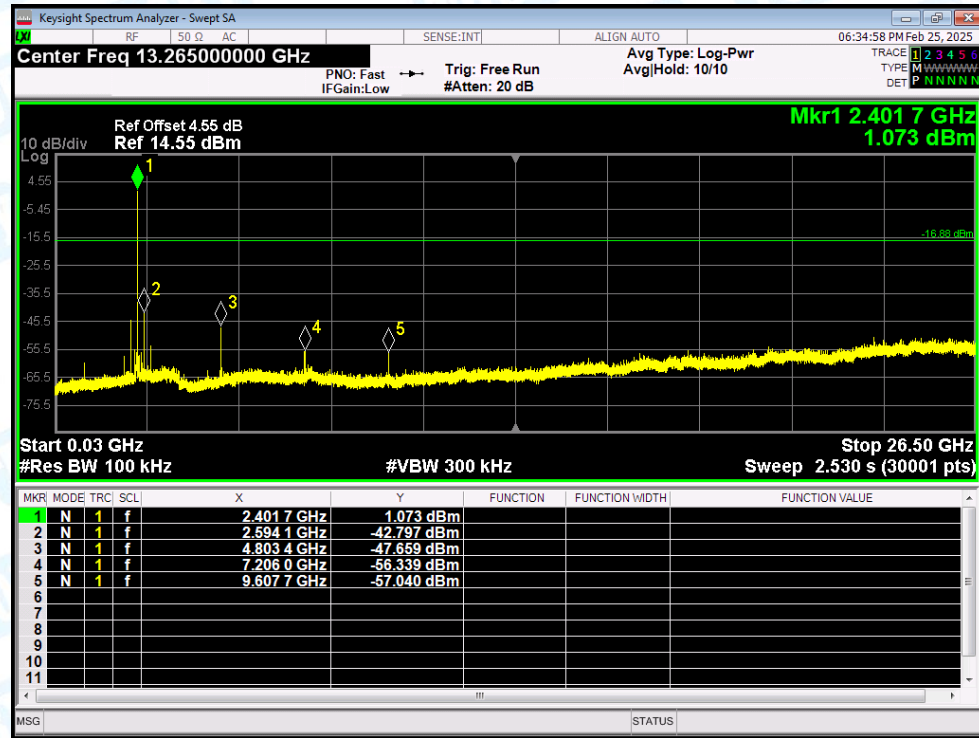
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-45.92	-20	Pass
NVNT	1-DH1	2441	Ant1	-47.54	-20	Pass
NVNT	1-DH1	2480	Ant1	-47.05	-20	Pass
NVNT	2-DH1	2402	Ant1	-46.54	-20	Pass
NVNT	2-DH1	2441	Ant1	-46.5	-20	Pass
NVNT	2-DH1	2480	Ant1	-48.55	-20	Pass
NVNT	3-DH1	2402	Ant1	-47.09	-20	Pass
NVNT	3-DH1	2441	Ant1	-47.75	-20	Pass
NVNT	3-DH1	2480	Ant1	-45.67	-20	Pass

Test Graphs

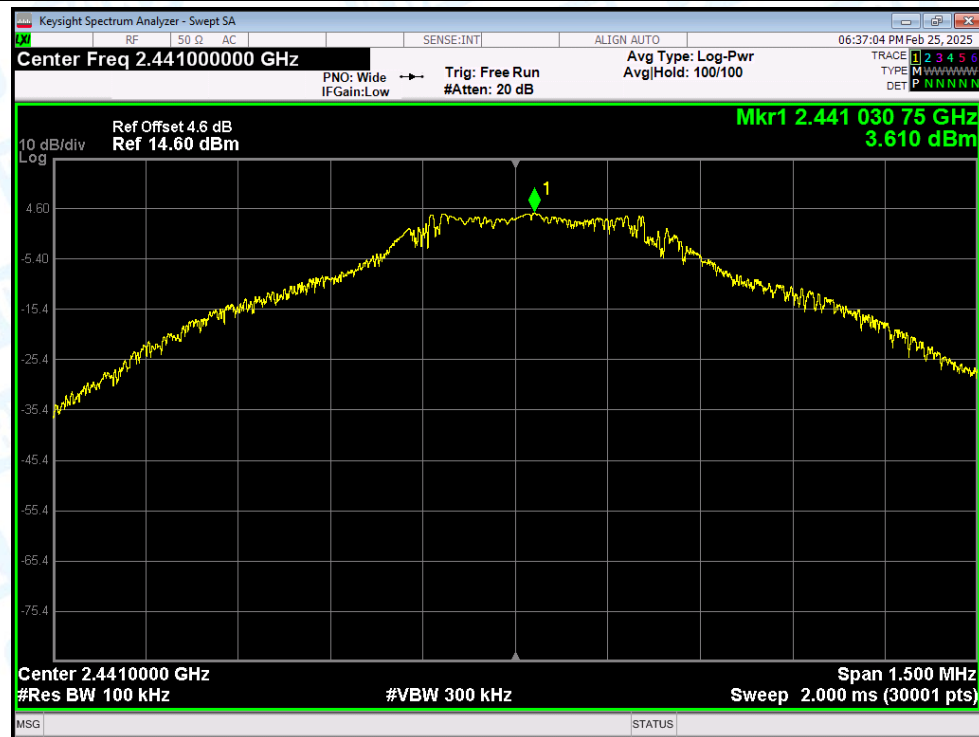
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



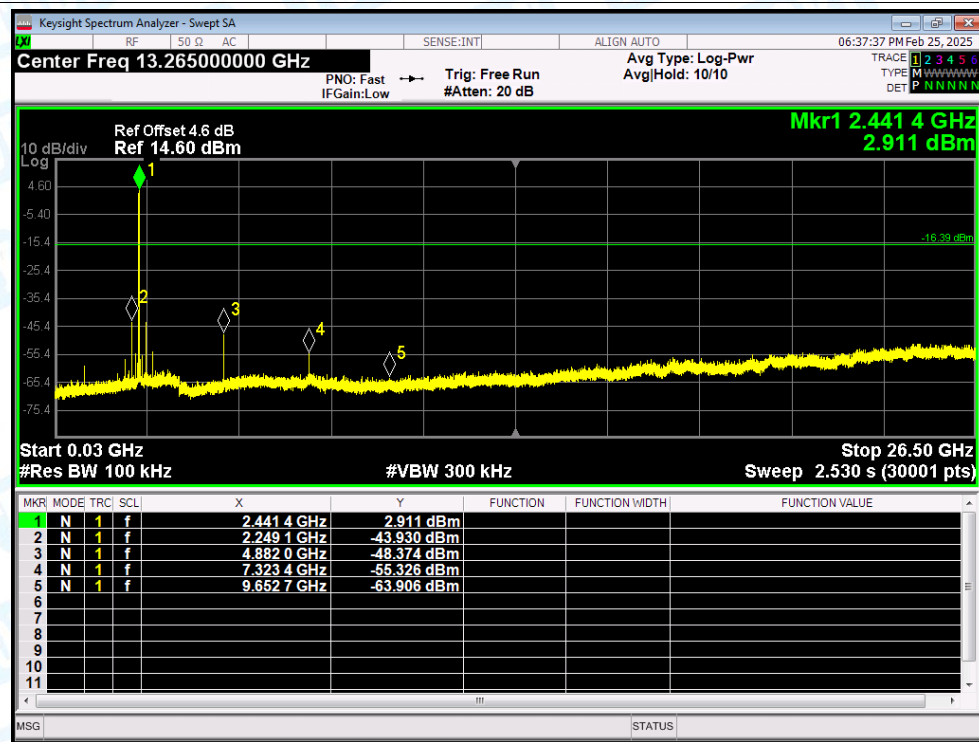
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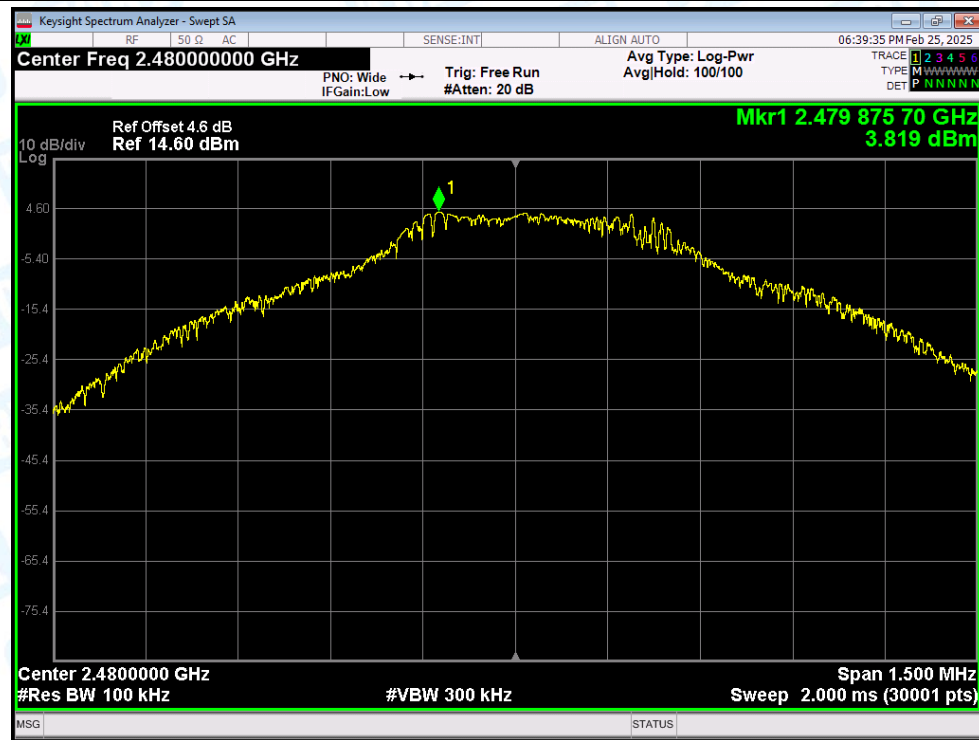
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



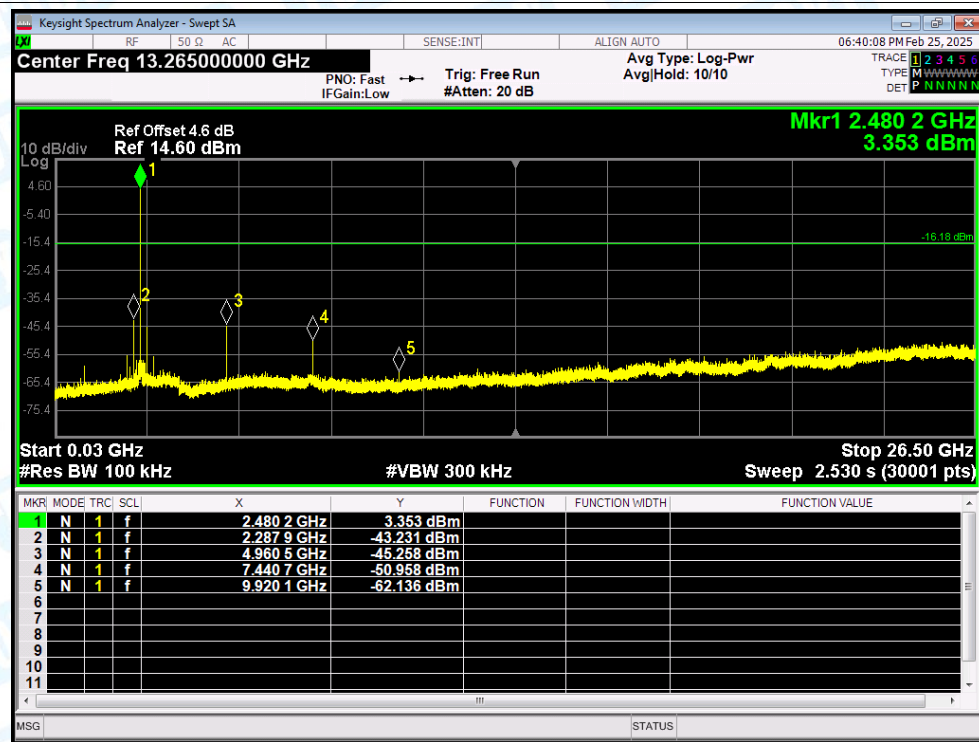
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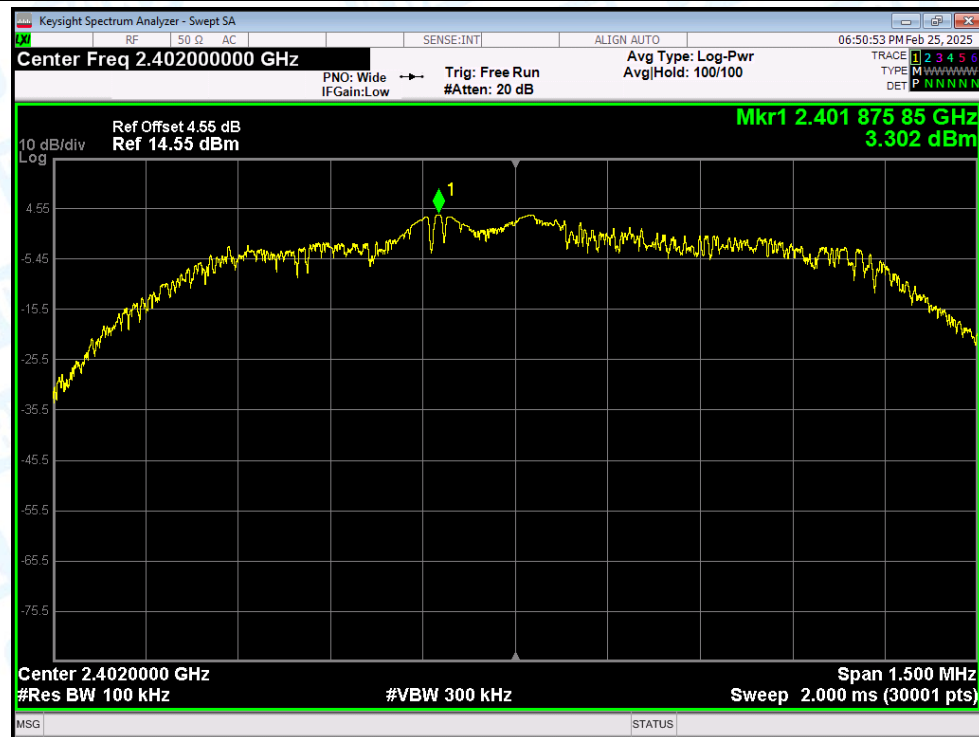
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



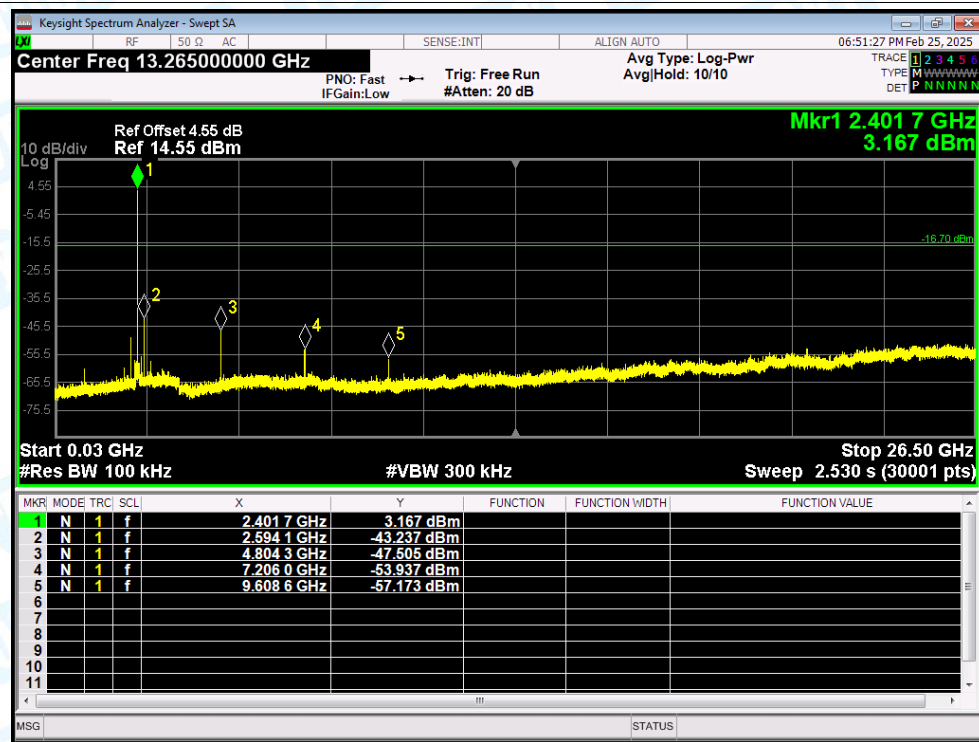
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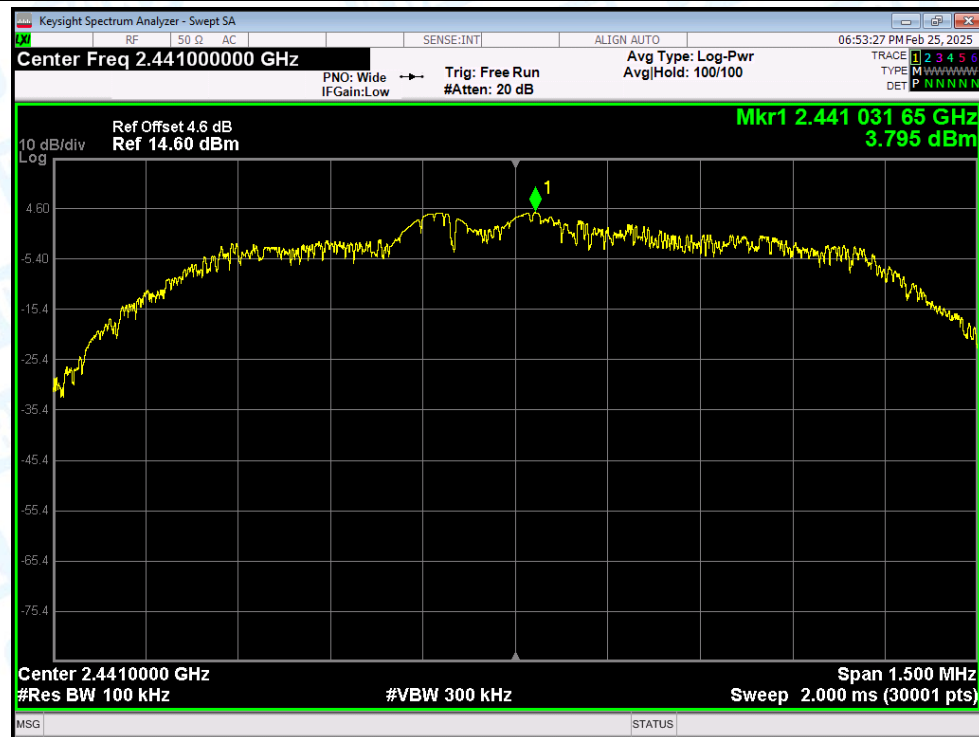
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



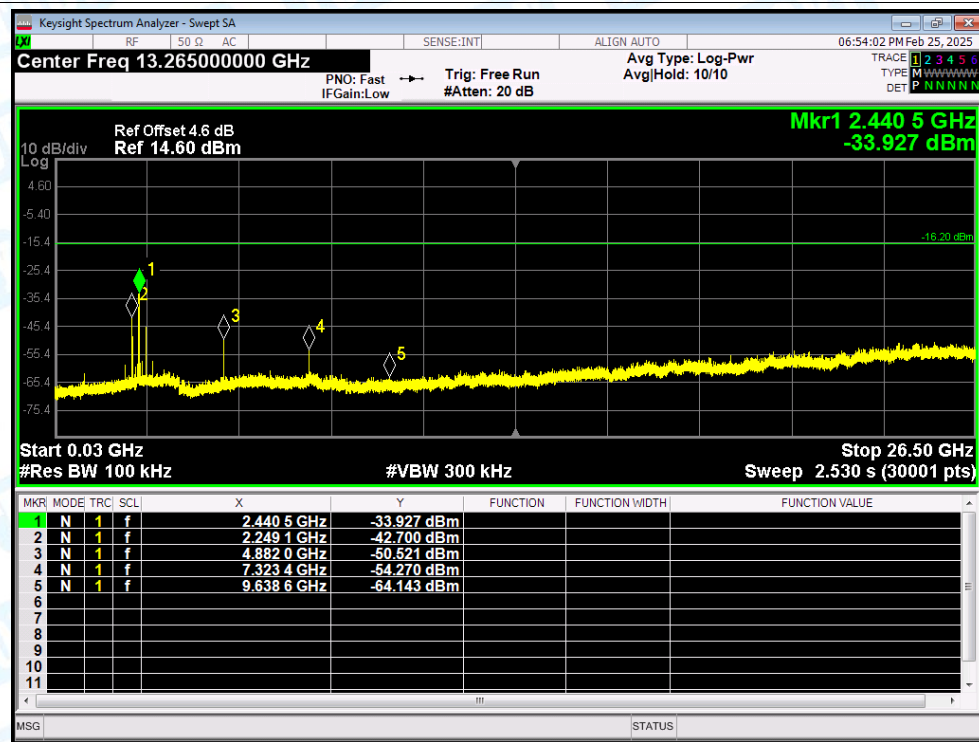
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



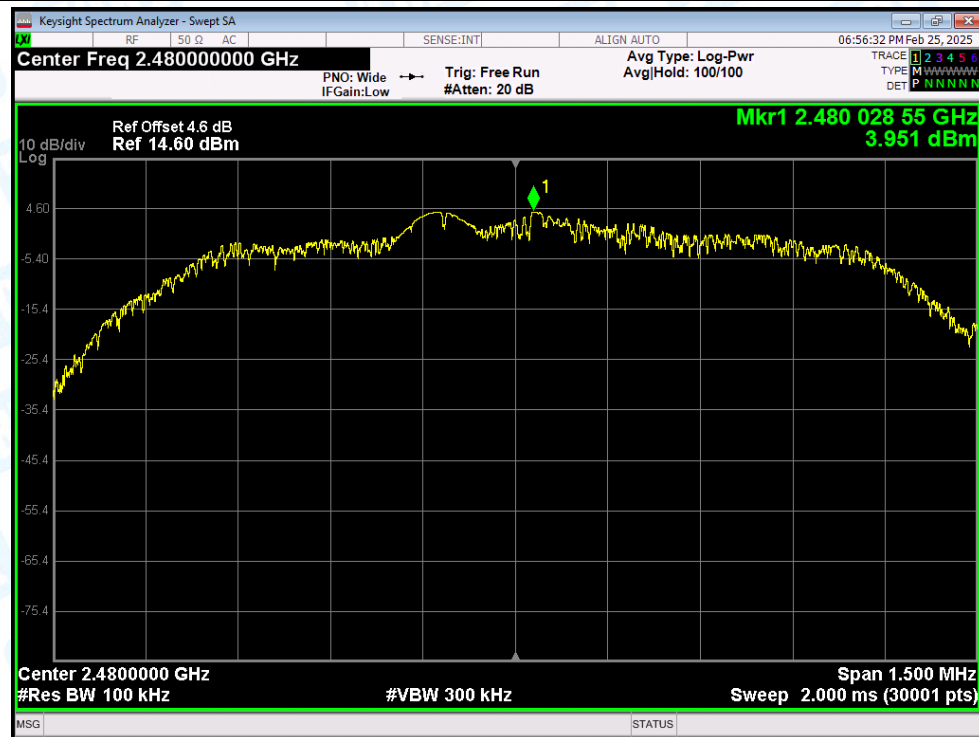
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



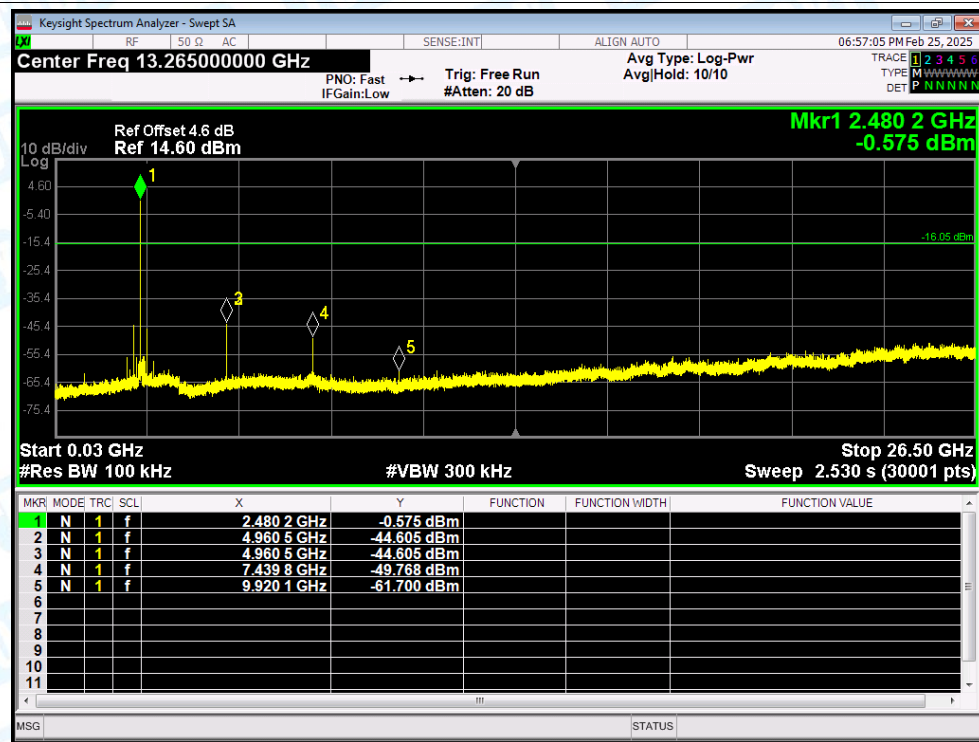
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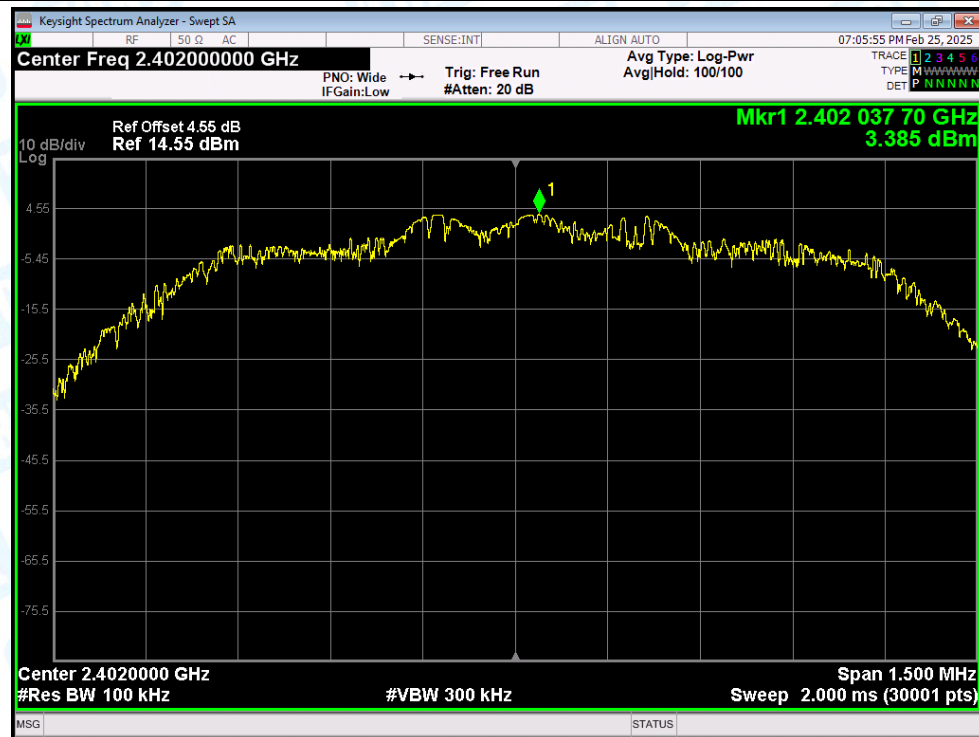
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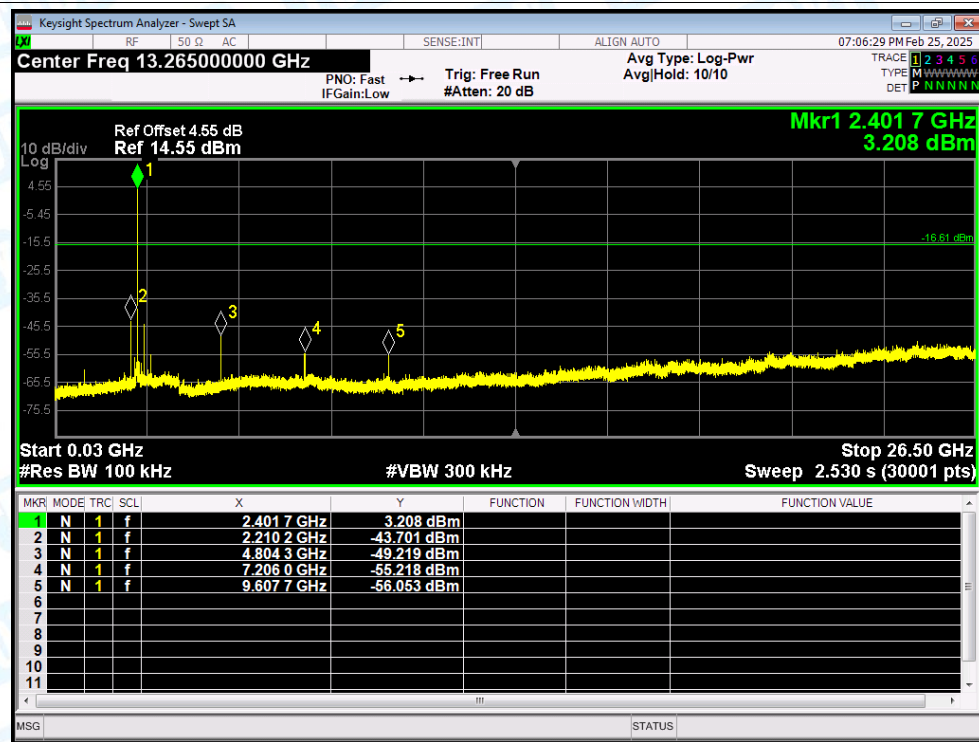
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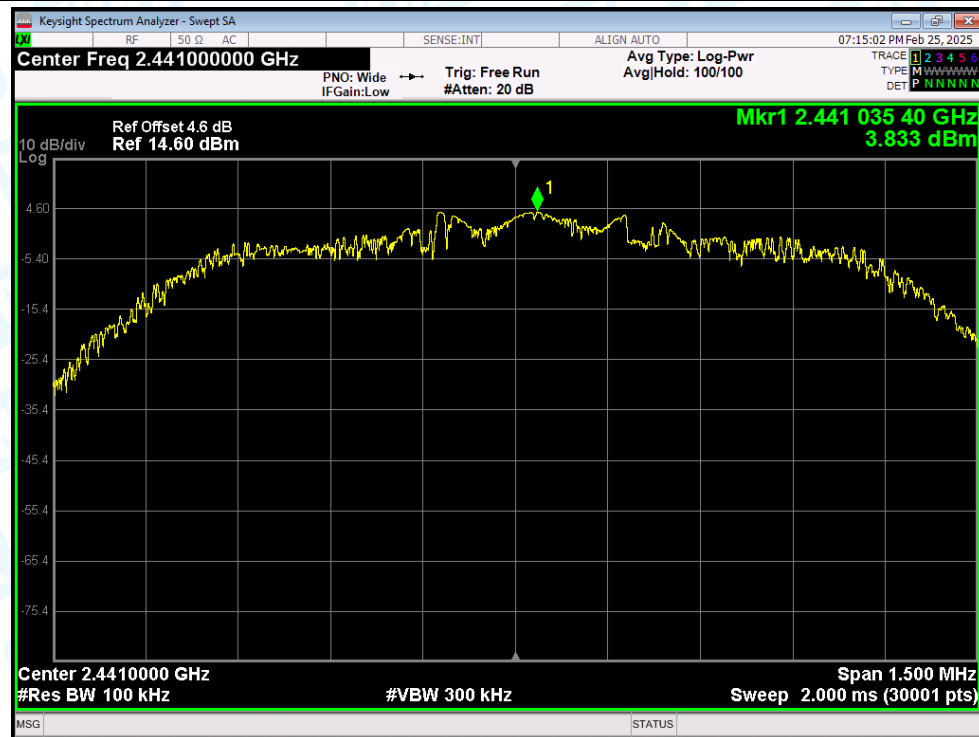
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



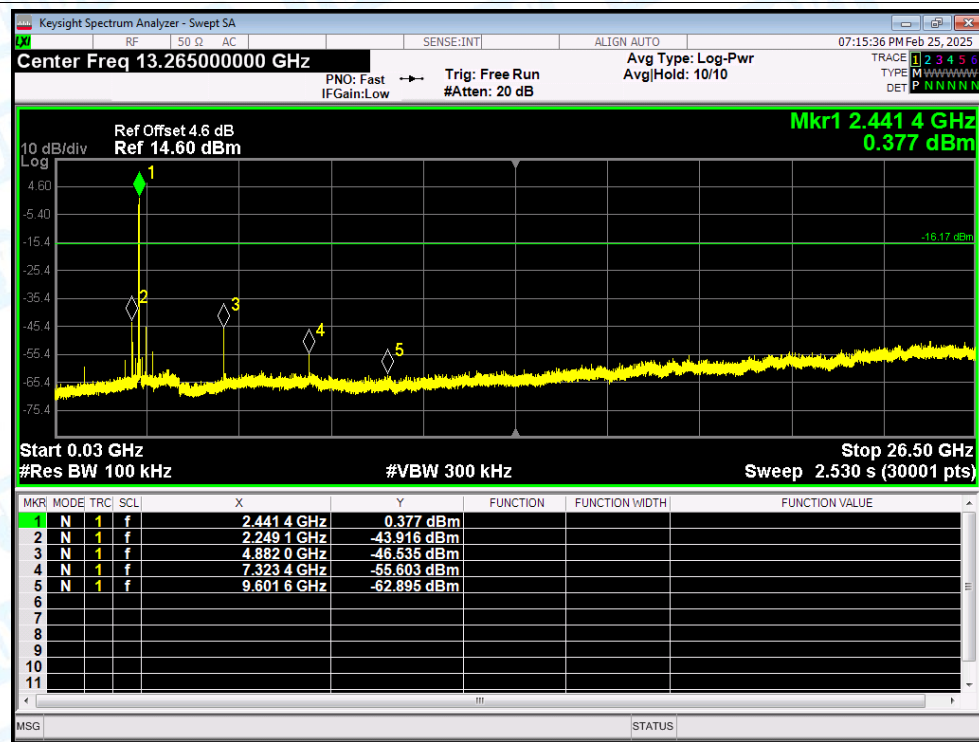
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



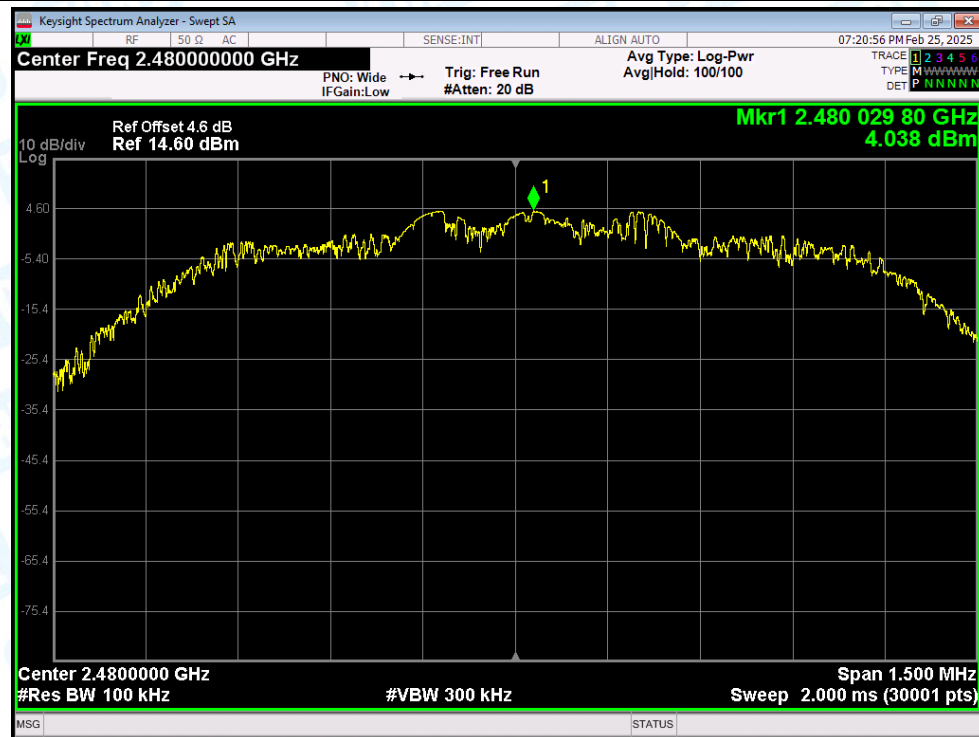
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



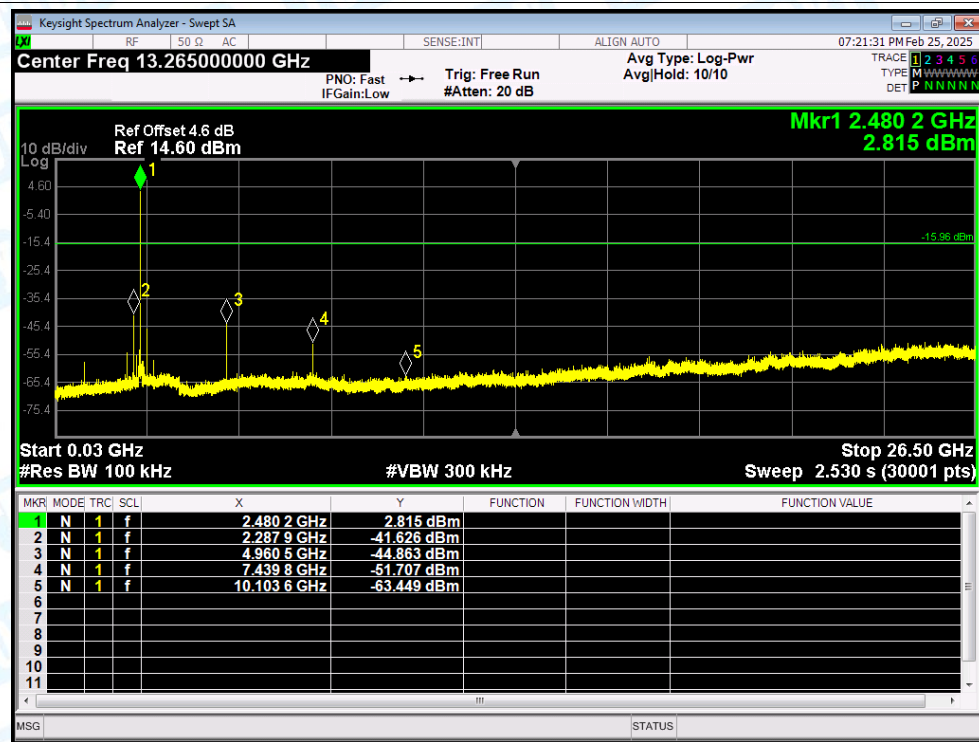
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

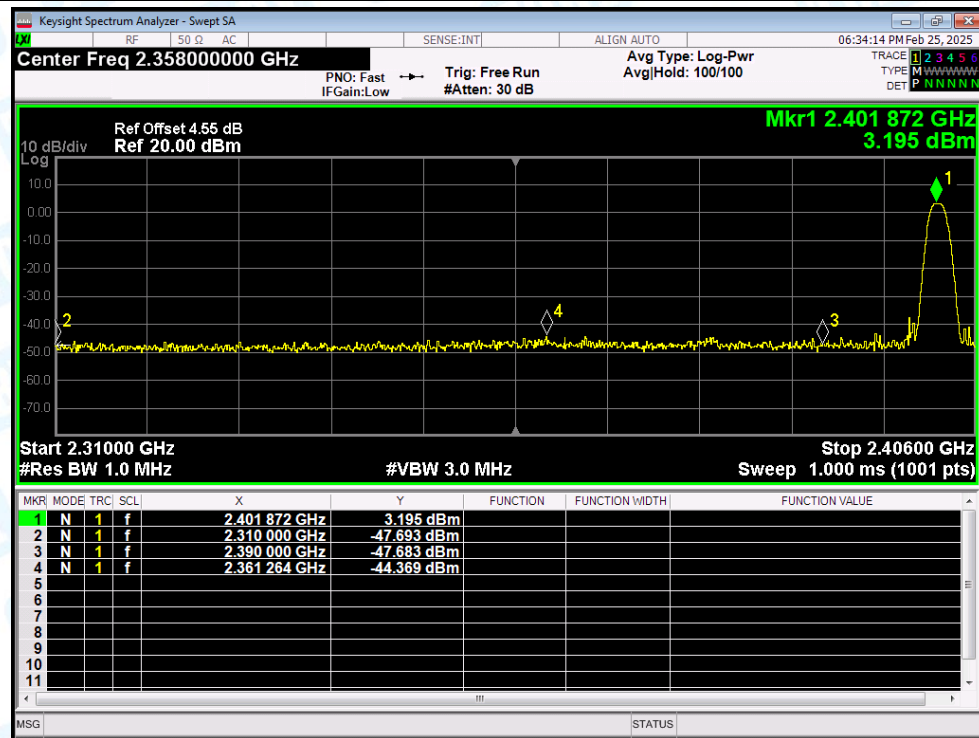


8. Restrict Band

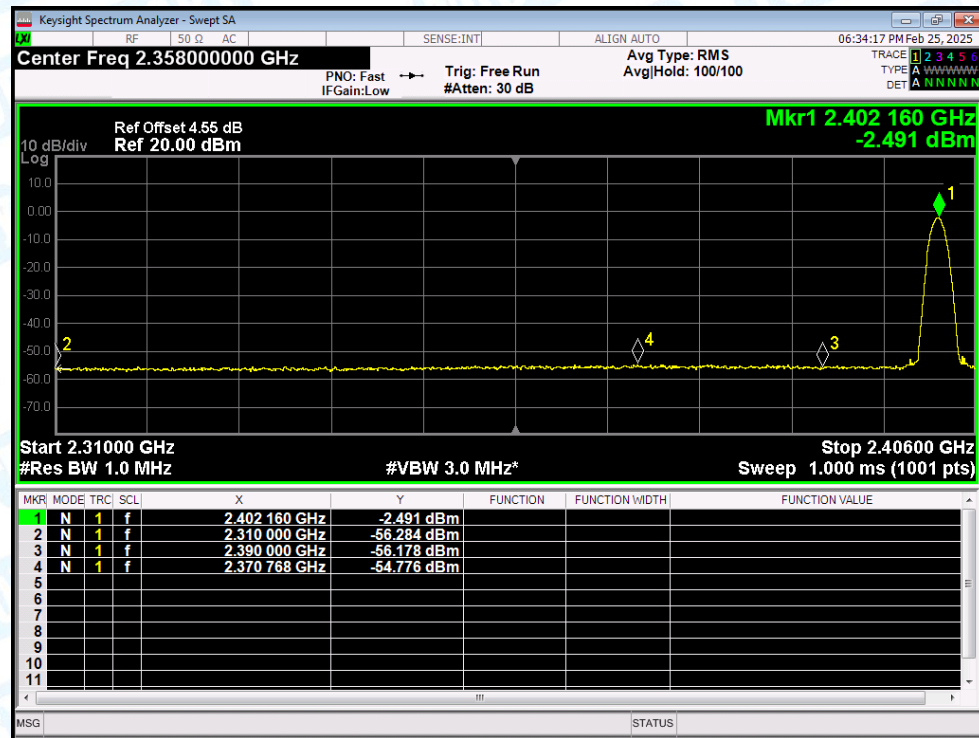
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-47.69	2	-	49.57	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.28	2	5.06	46.04	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2361.264	-44.37	2	-	52.89	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2370.768	-54.78	2	5.06	47.54	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.68	2	-	49.58	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.18	2	5.06	46.14	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.91	2	-	52.35	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.42	2	5.17	48.01	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2486.464	-41.81	2	-	55.45	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.168	-54.38	2	5.17	48.05	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.1	2	-	50.16	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.54	2	5.17	47.89	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.97	2	-	48.29	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.75	2	5.06	45.57	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2369.328	-44.11	2	-	53.15	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2377.968	-54.47	2	5.06	47.85	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.39	2	-	50.87	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.49	2	5.06	46.83	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.12	2	-	50.14	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.42	2	4.95	46.79	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.608	-34.72	2	-	62.54	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.536	-53.48	2	4.95	48.73	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.39	2	-	49.87	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.09	2	4.95	47.12	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-49.05	2	-	48.21	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.81	2	5.06	45.51	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2377.872	-44.49	2	-	52.77	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2378.064	-54.44	2	5.06	47.88	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.65	2	-	49.61	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.22	2	5.06	46.1	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-46.68	2	-	50.58	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.54	2	5.06	46.78	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.632	-36.31	2	-	60.95	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2485.888	-54.36	2	5.06	47.96	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.66	2	-	50.6	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-54.87	2	5.06	47.45	Average	54	Pass

Test Graphs

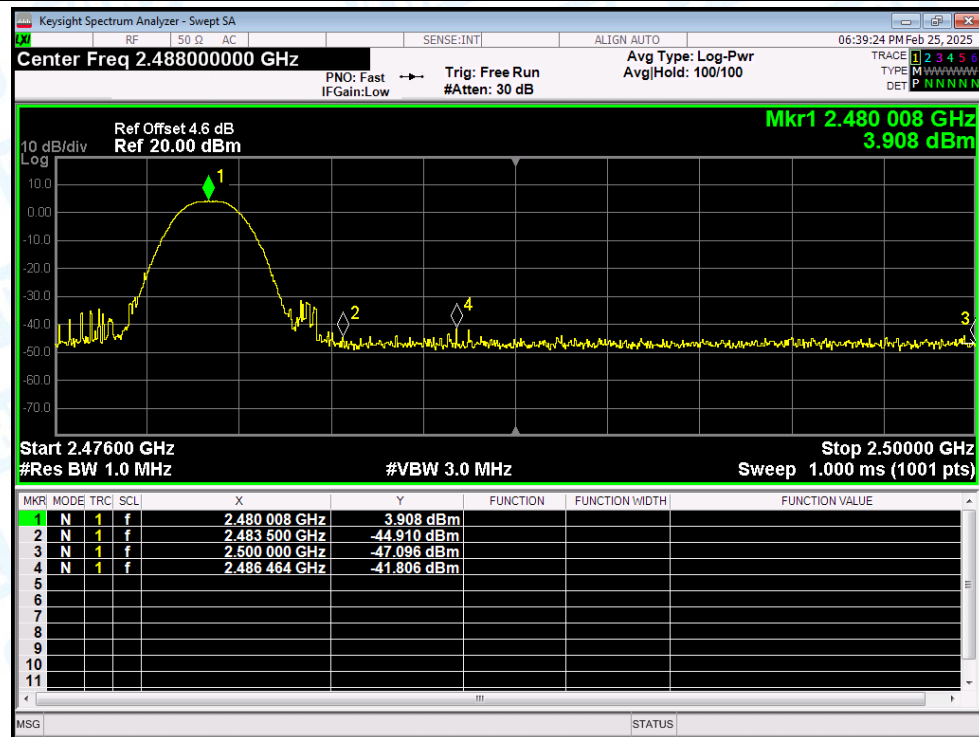
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



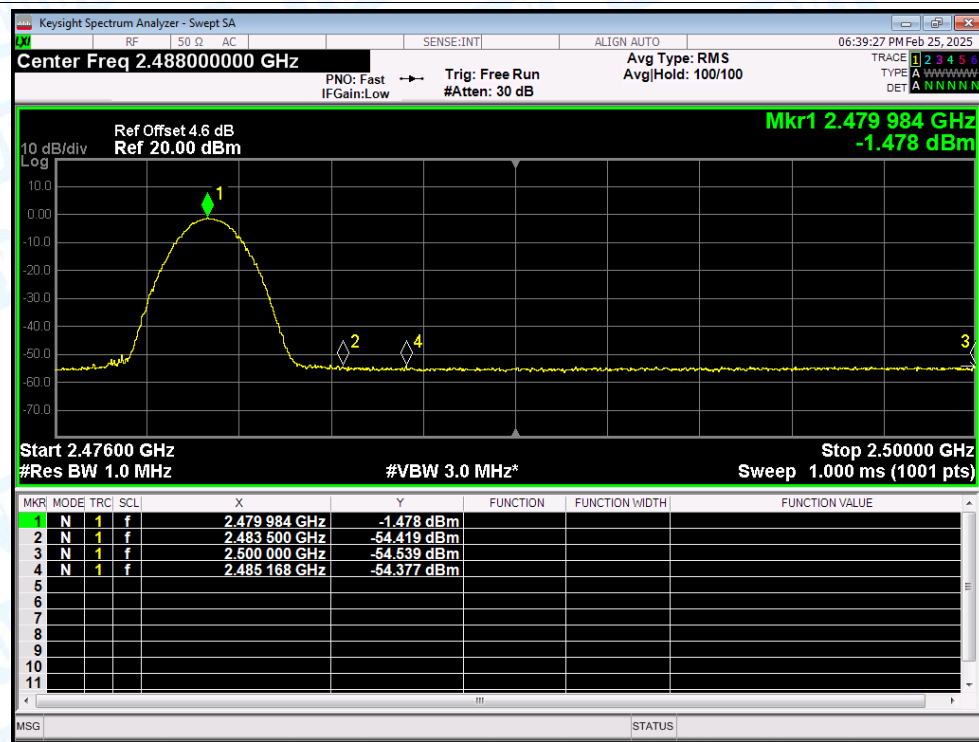
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



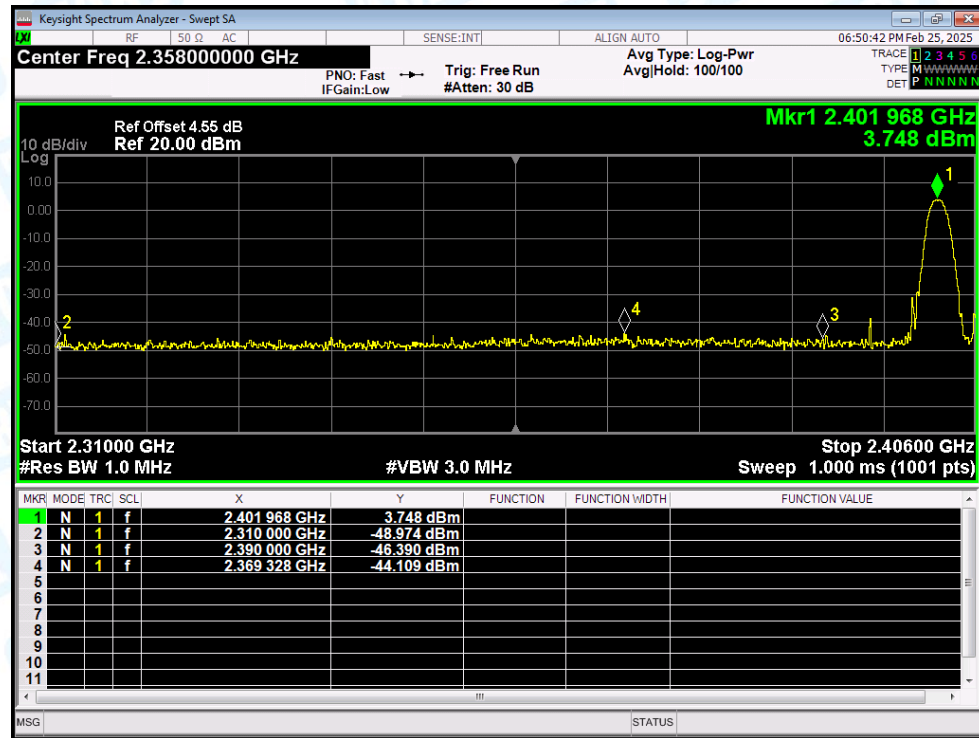
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



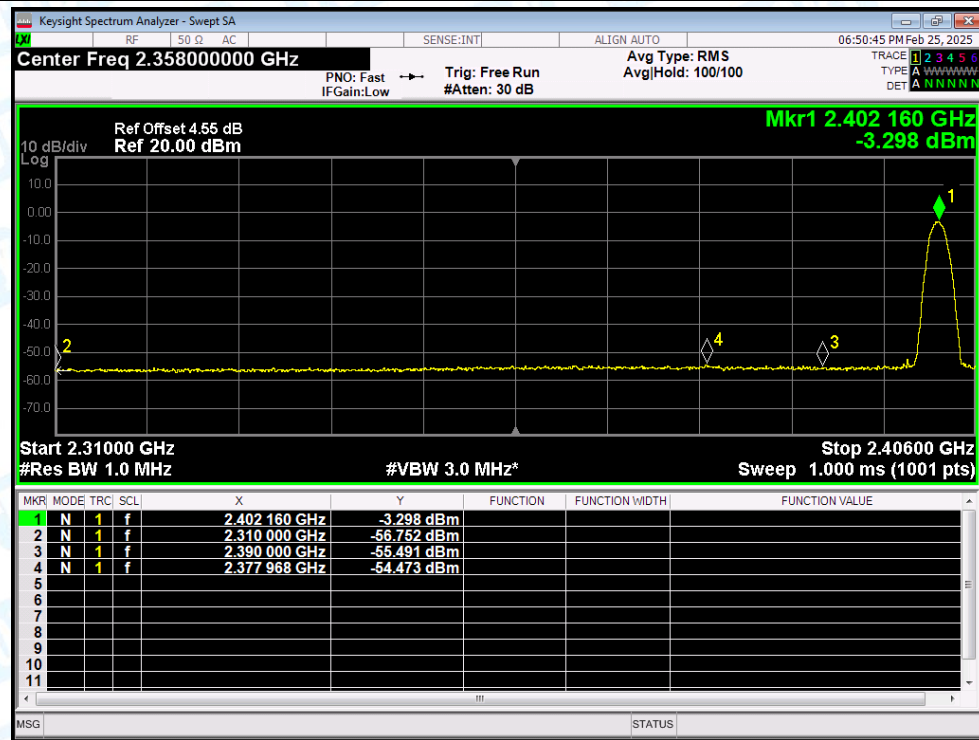
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



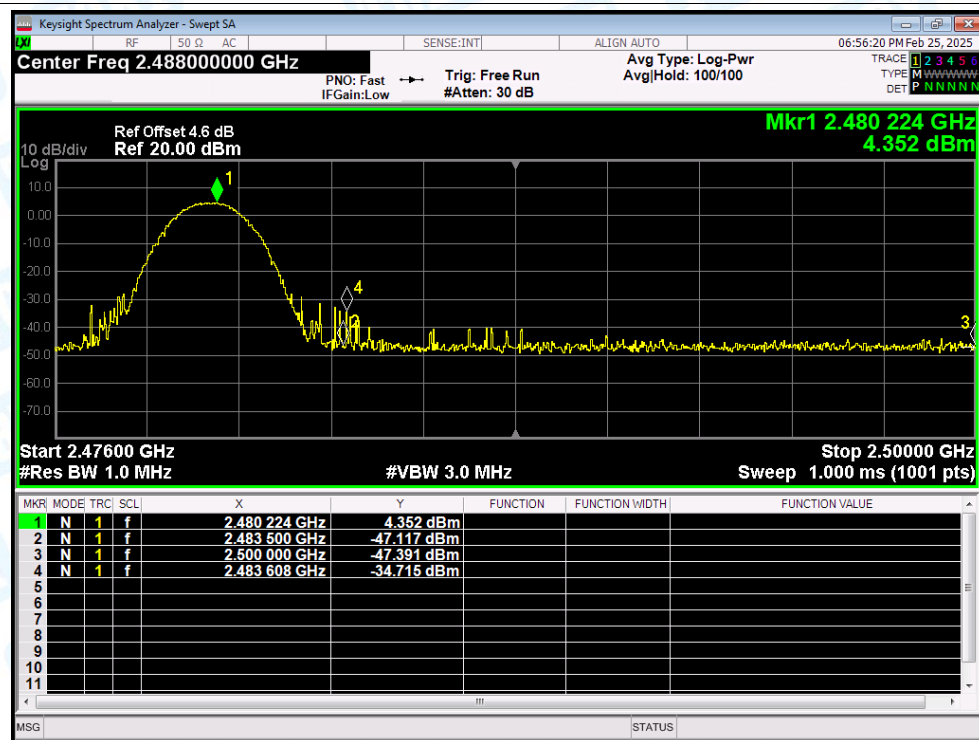
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



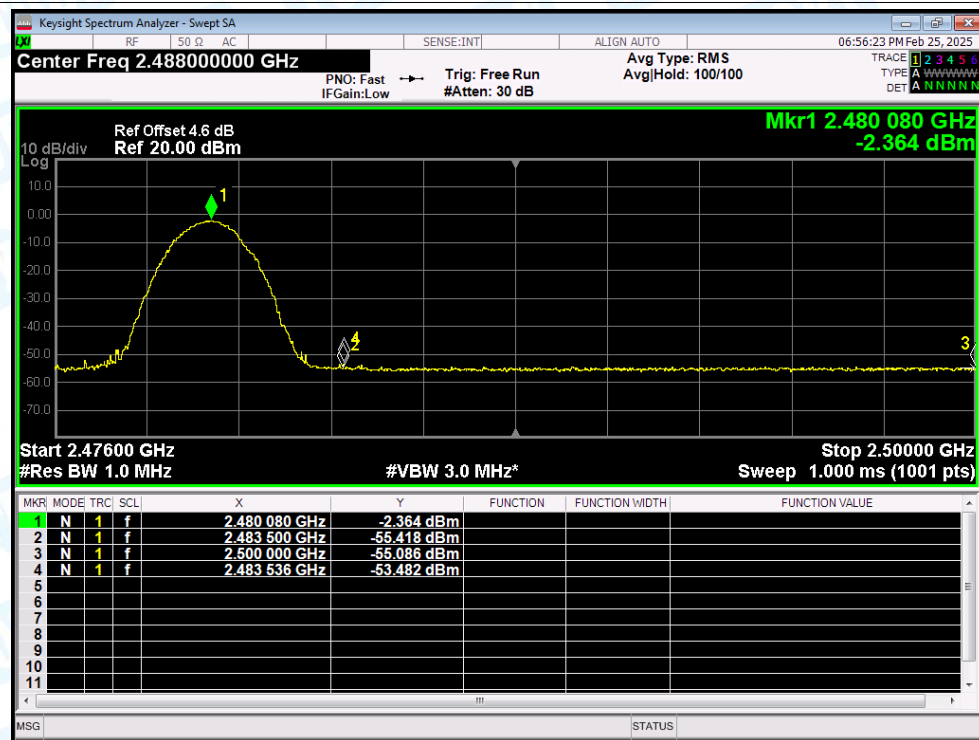
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



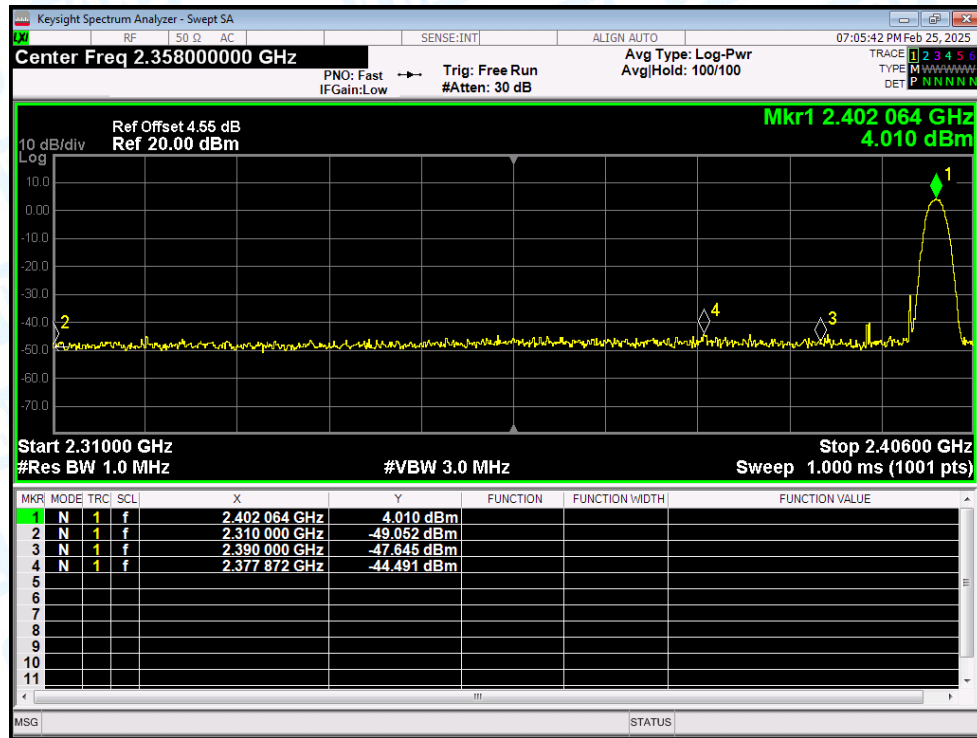
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



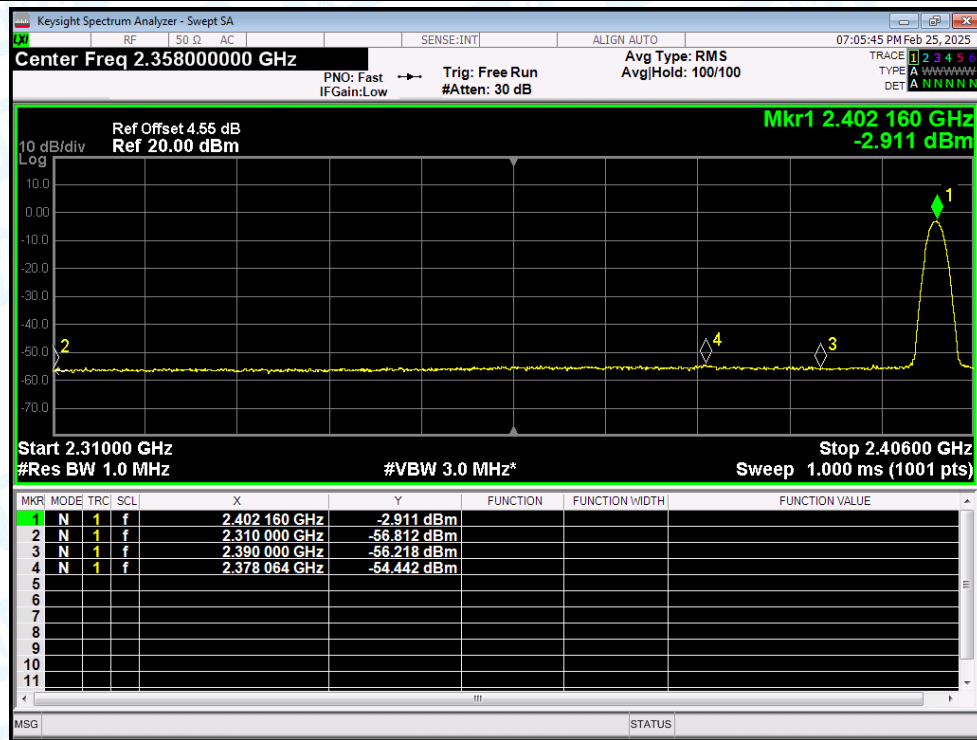
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



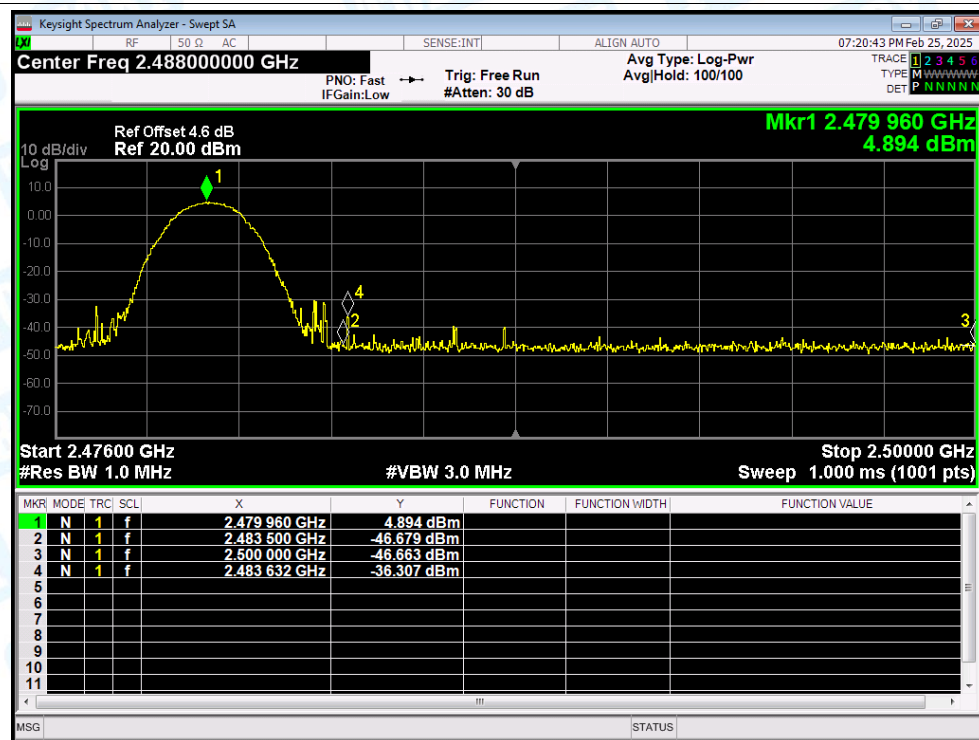
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



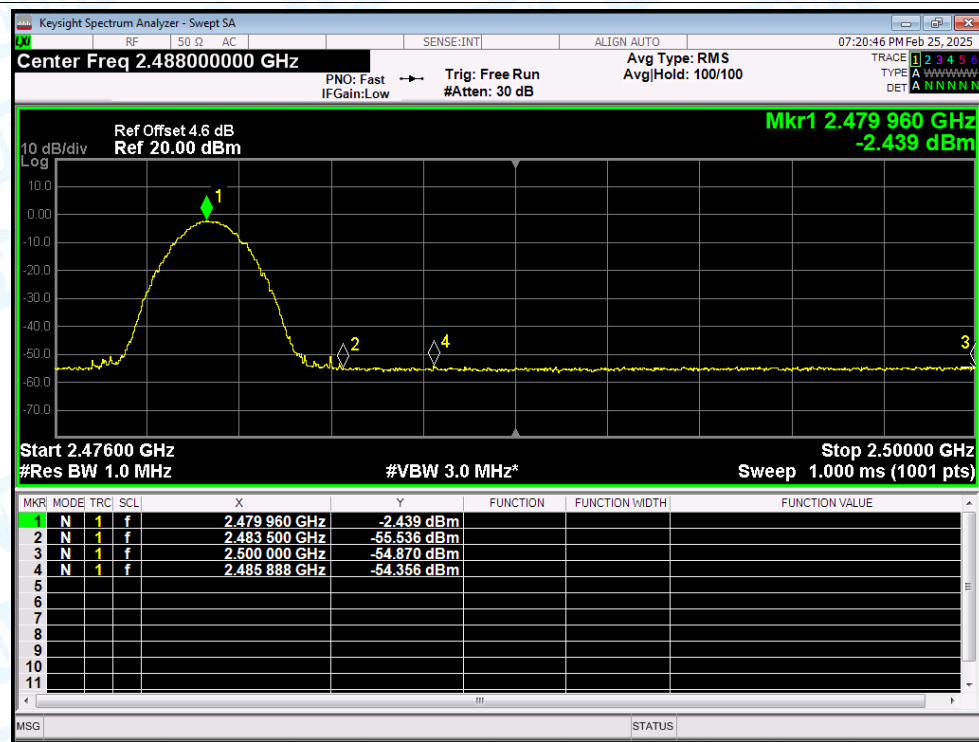
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

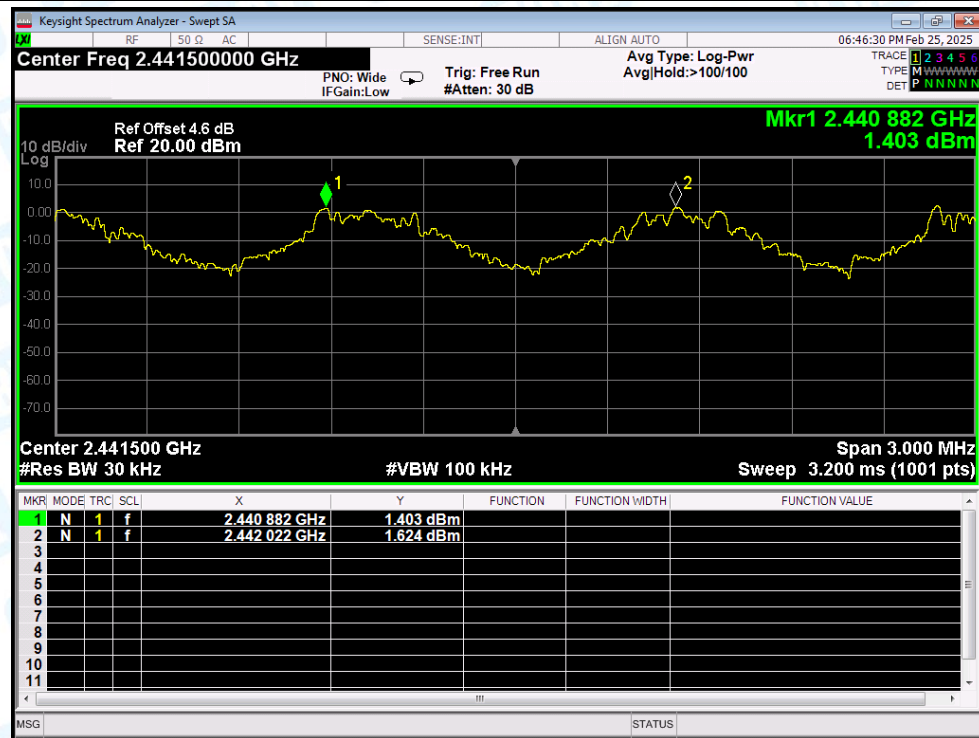


9. Carrier Frequencies Separation

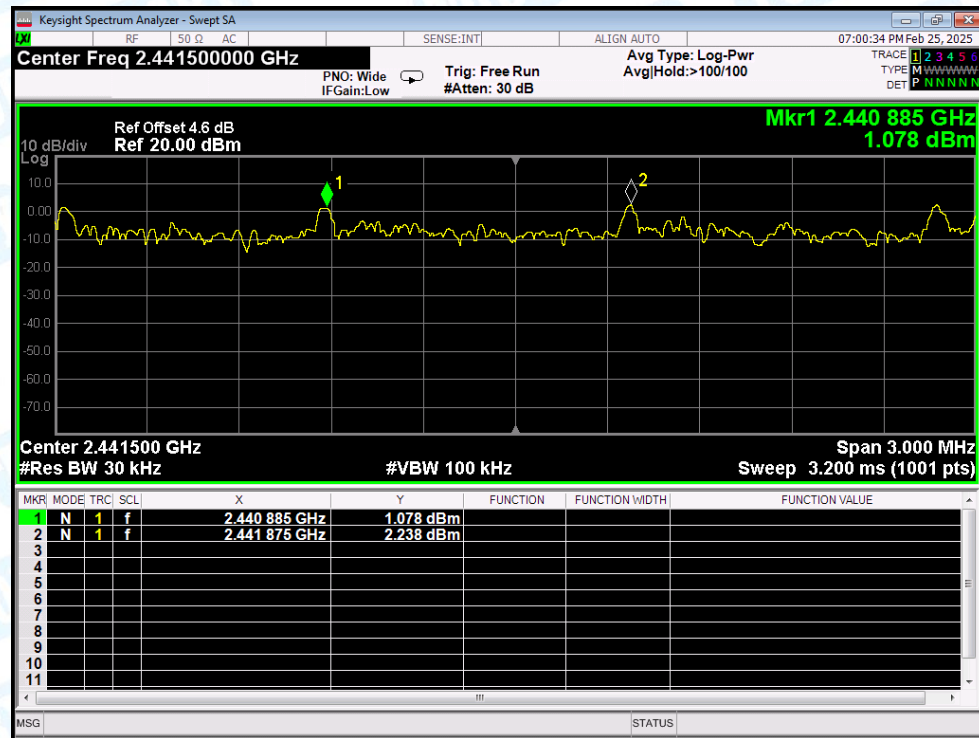
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.882	2442.022	1.14	0.613	Pass
NVNT	2-DH1	Ant1	2440.885	2441.875	0.99	0.847	Pass
NVNT	3-DH1	Ant1	2441.035	2442.037	1.002	0.827	Pass

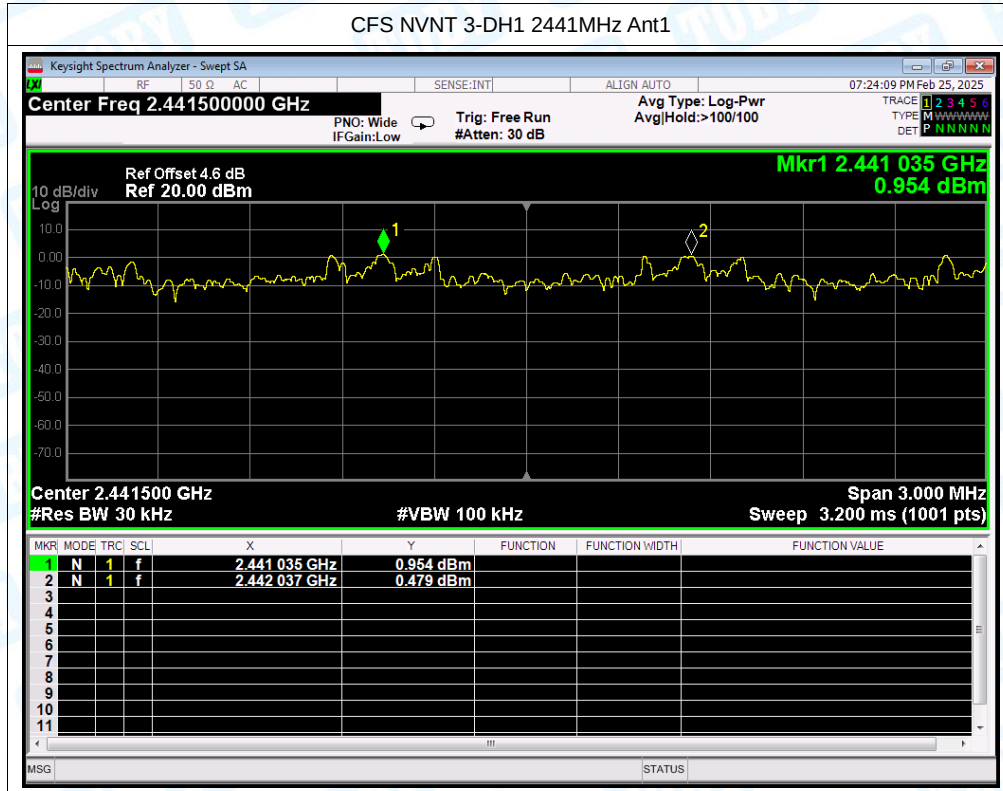
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



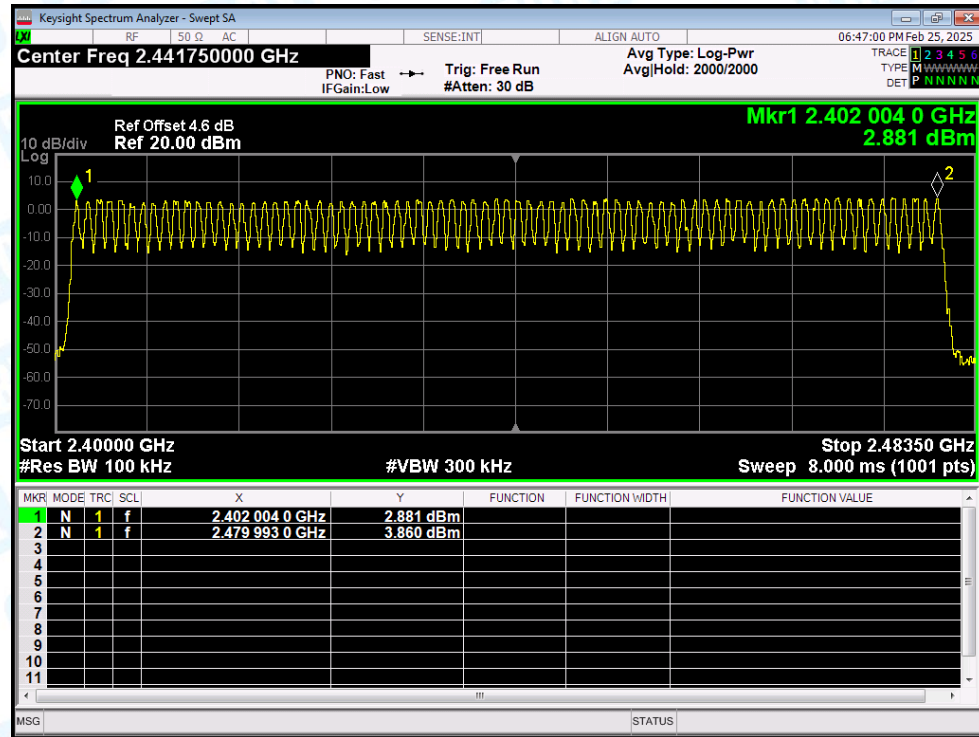


10. Number of Hopping Channel

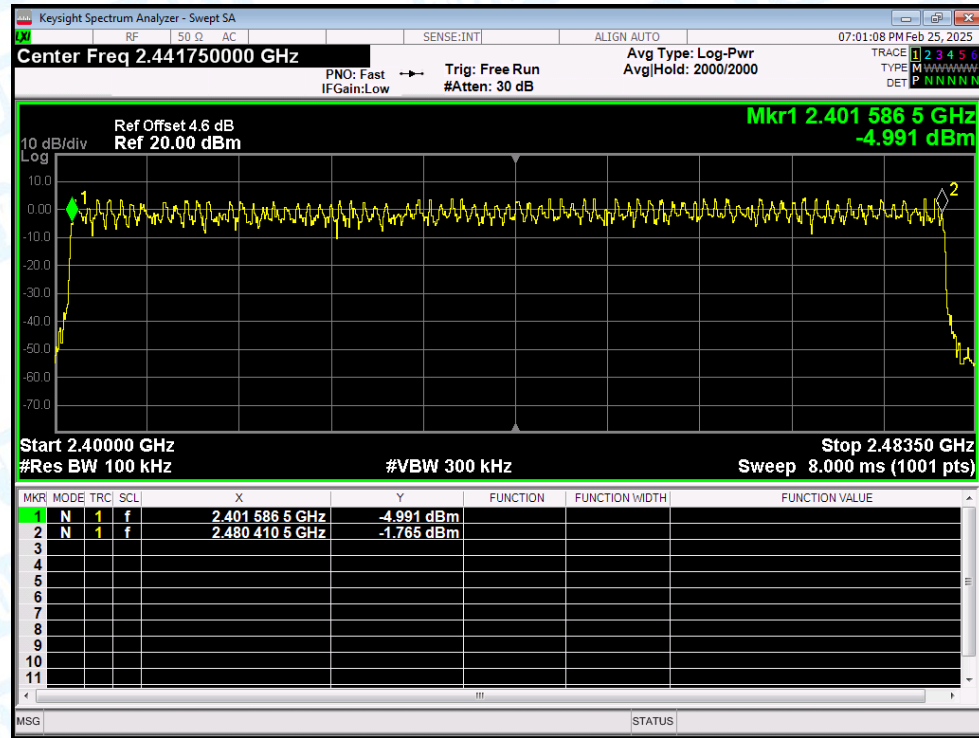
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

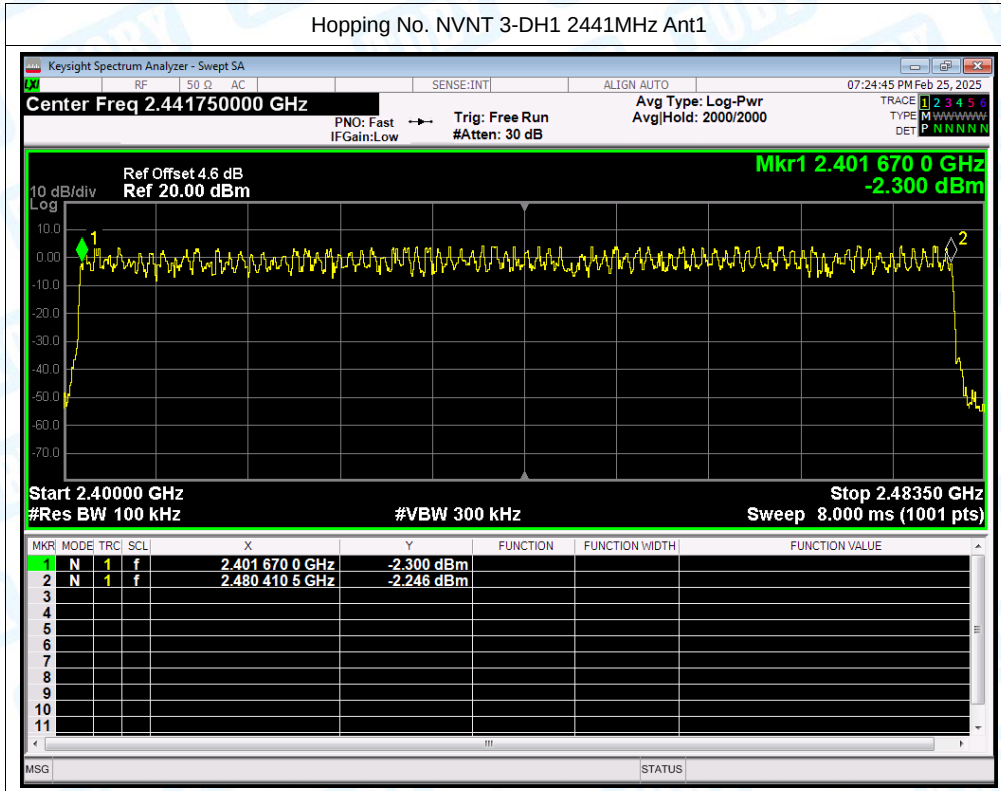
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



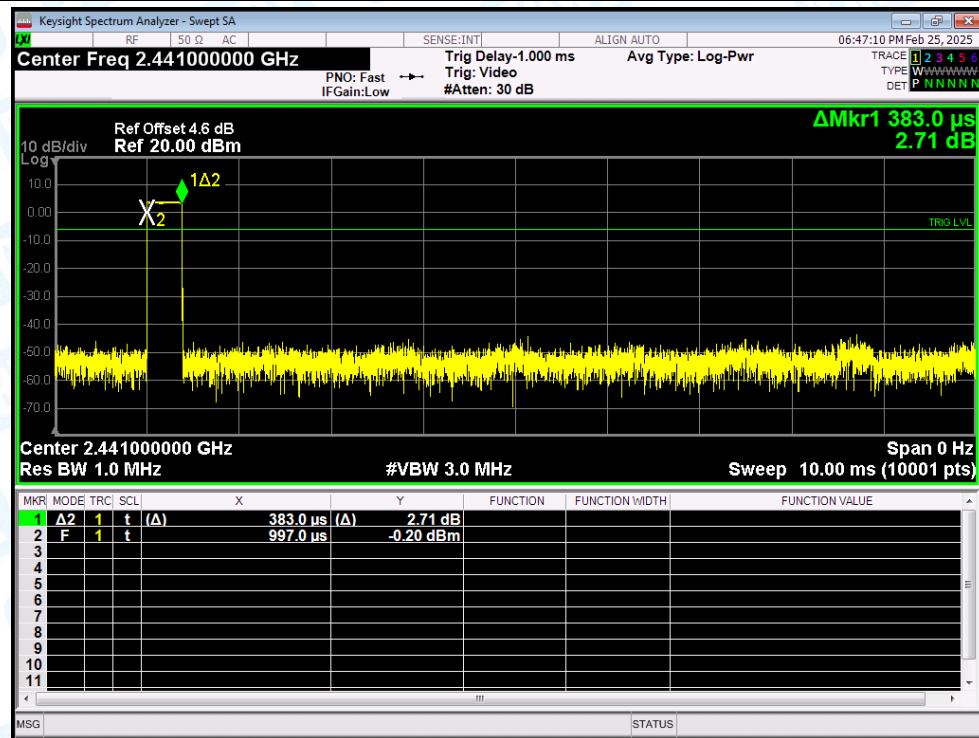


11. Dwell Time

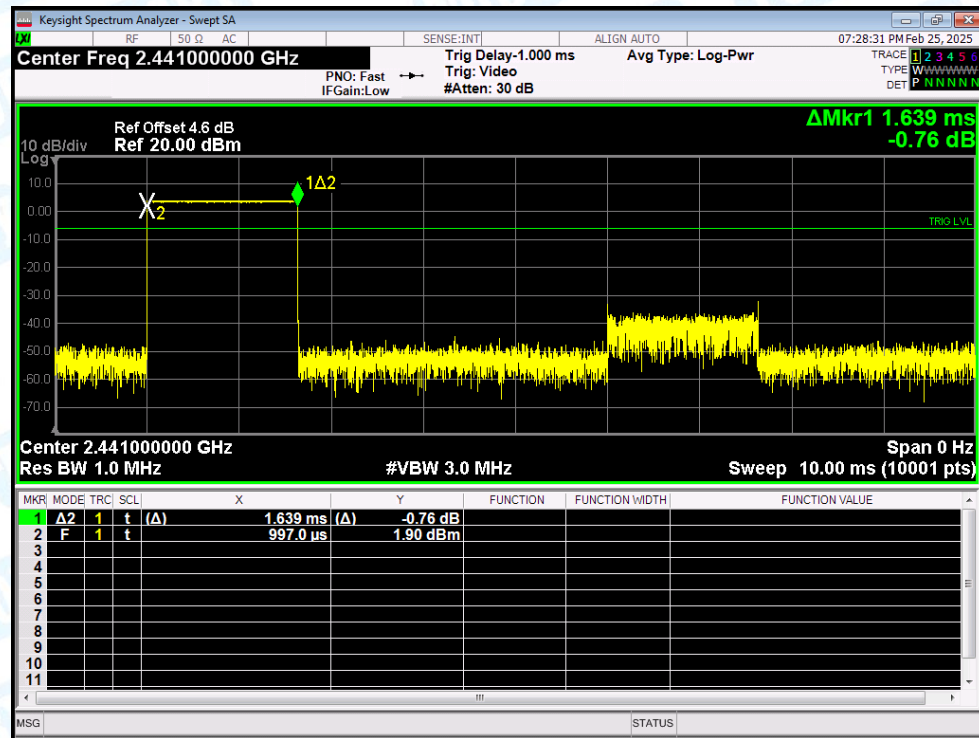
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	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

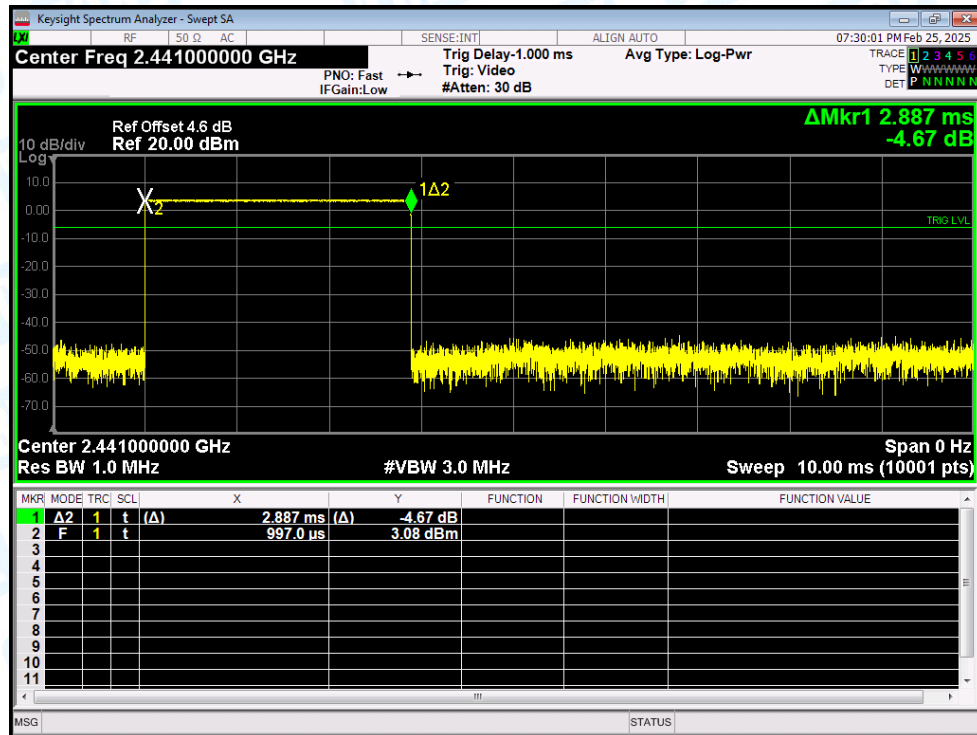
Dwell NVNT 1-DH1 2441MHz Ant1



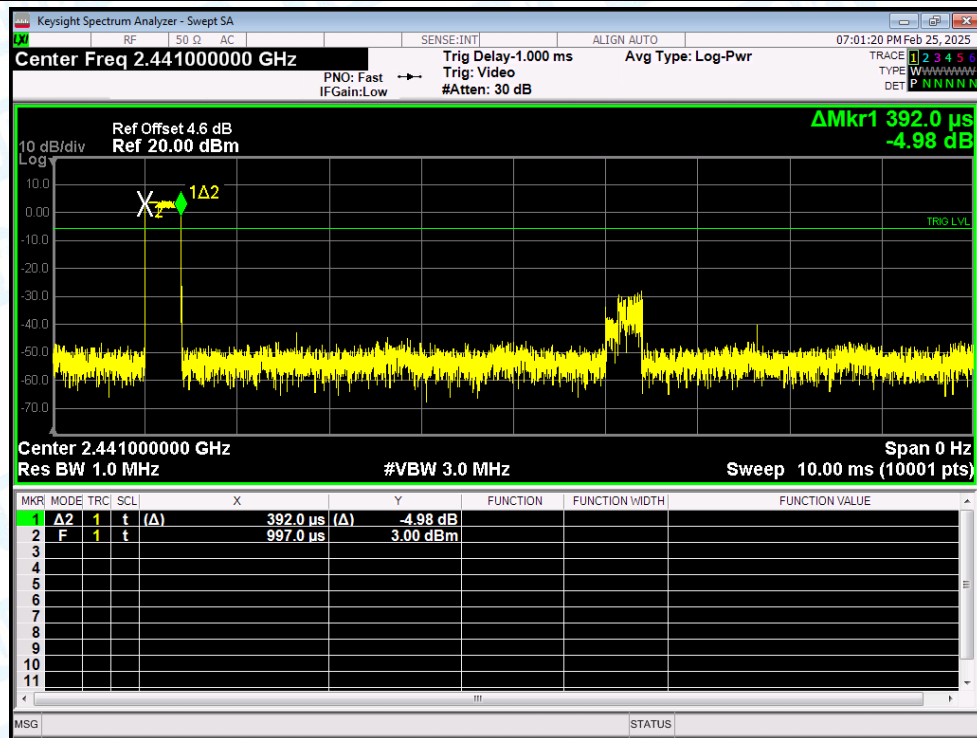
Dwell NVNT 1-DH3 2441MHz Ant1



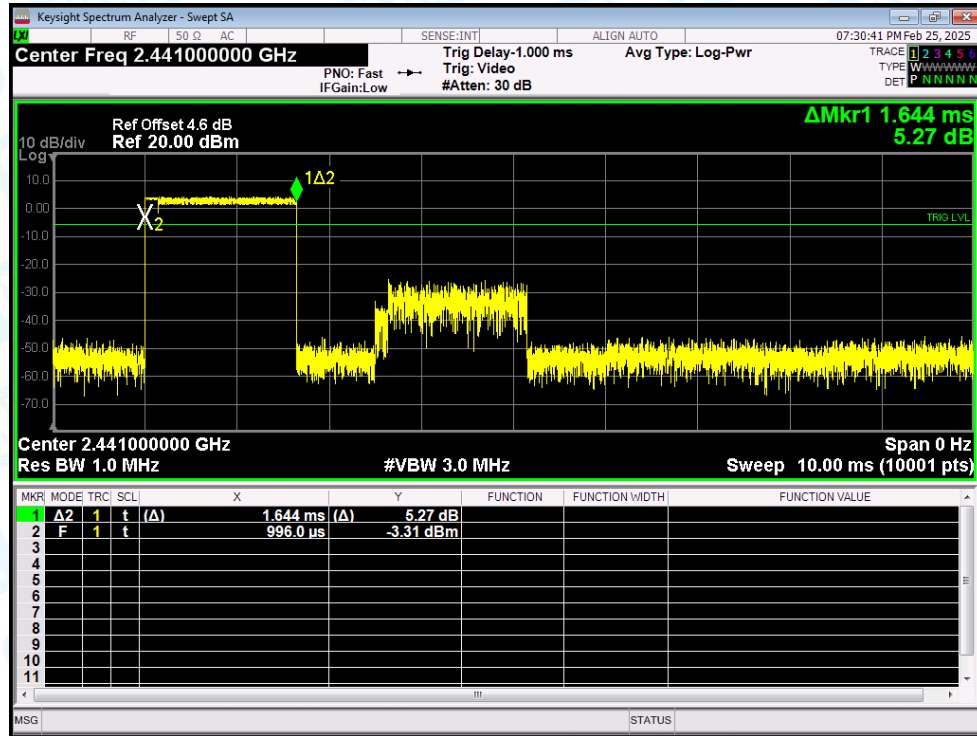
Dwell NVNT 1-DH5 2441MHz Ant1



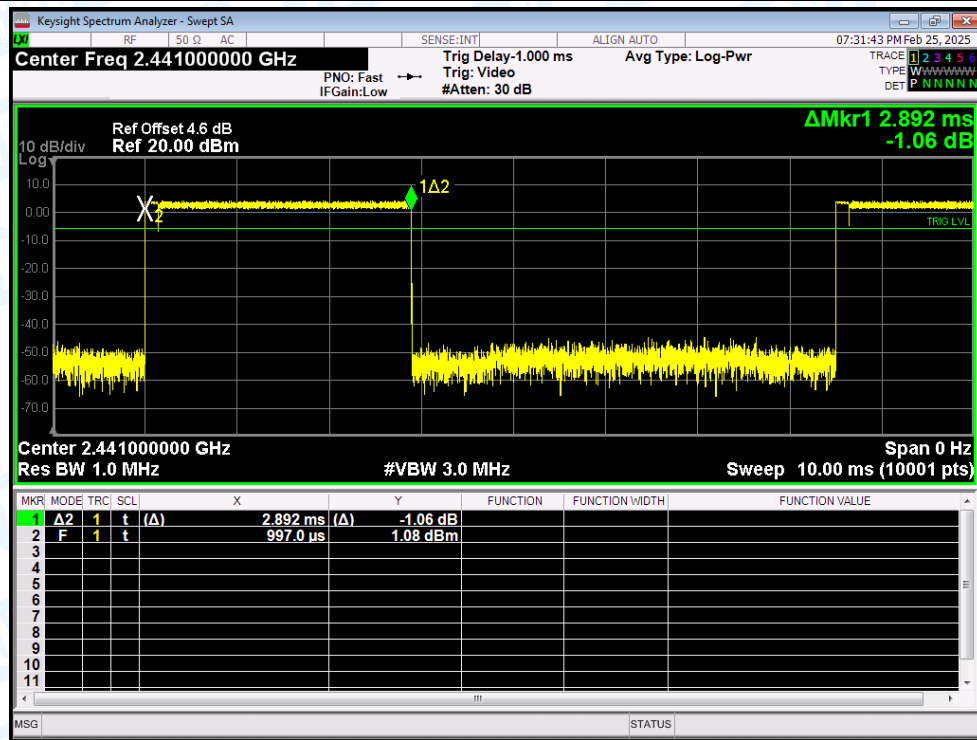
Dwell NVNT 2-DH1 2441MHz Ant1



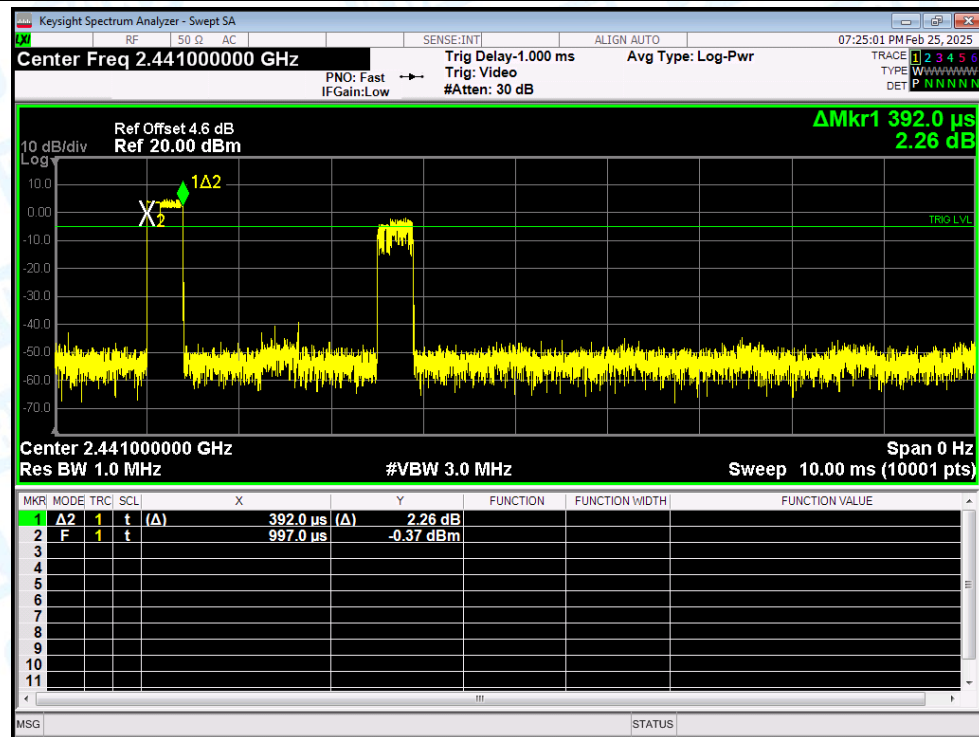
Dwell NVNT 2-DH3 2441MHz Ant1



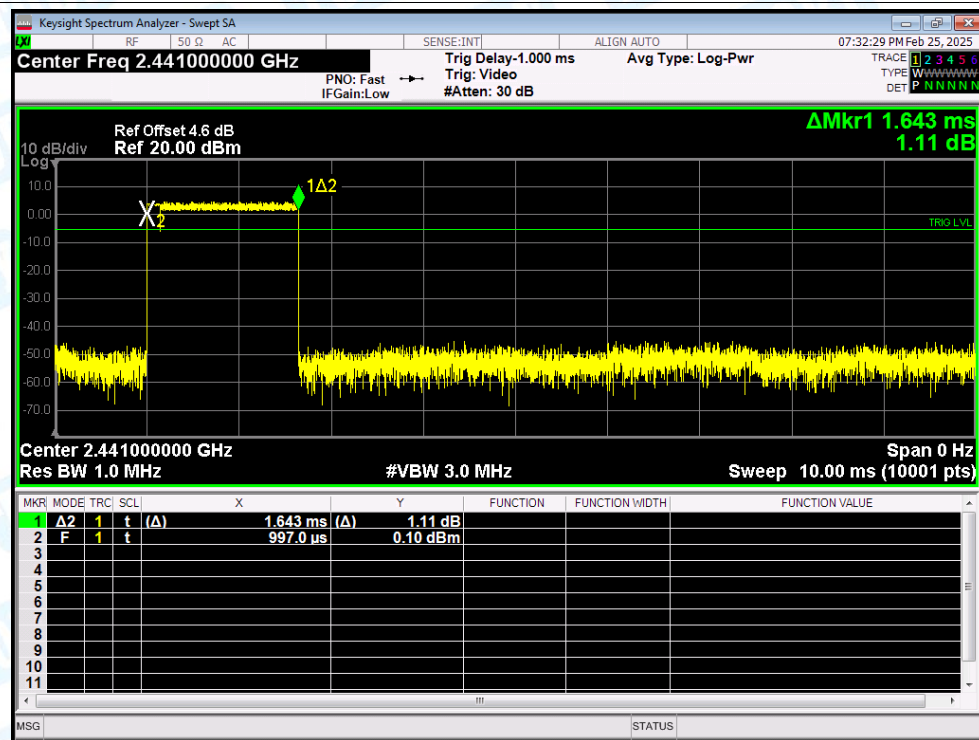
Dwell NVNT 2-DH5 2441MHz Ant1

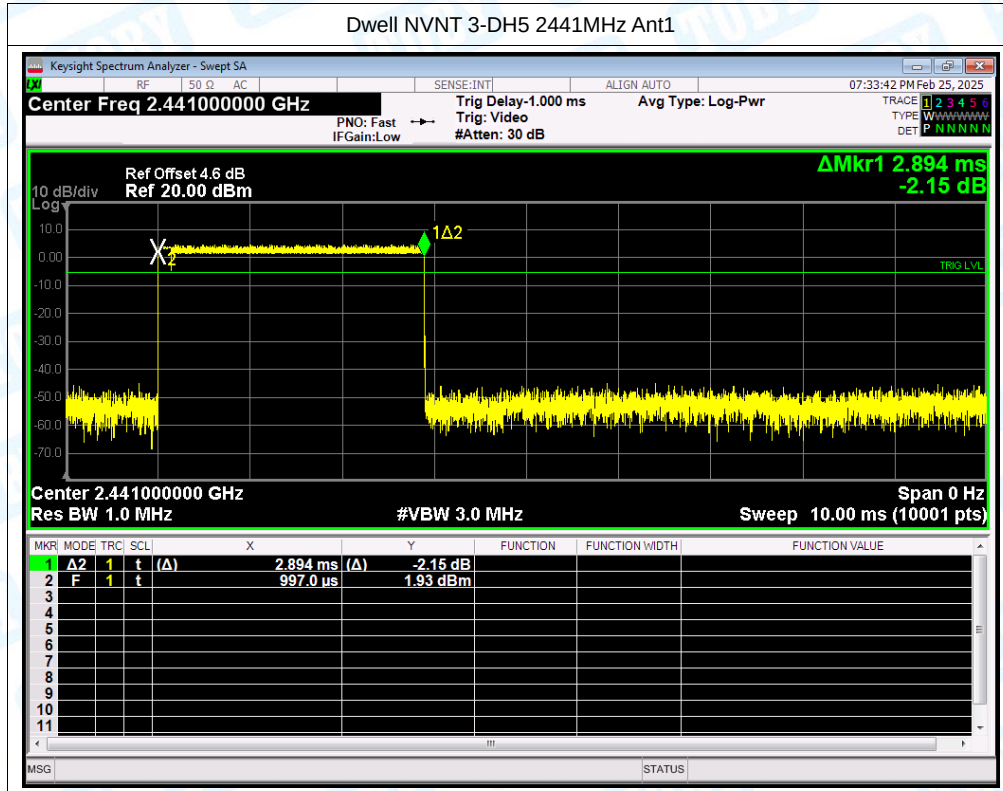


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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