

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless headphones
Test Model:	SK31
Sample ID:	HC-C-202411-0339-01-2#
Environmental Conditions	
Temperature:	23.5℃
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-202411-0339-11 The report only show the worst case data.	

Contents

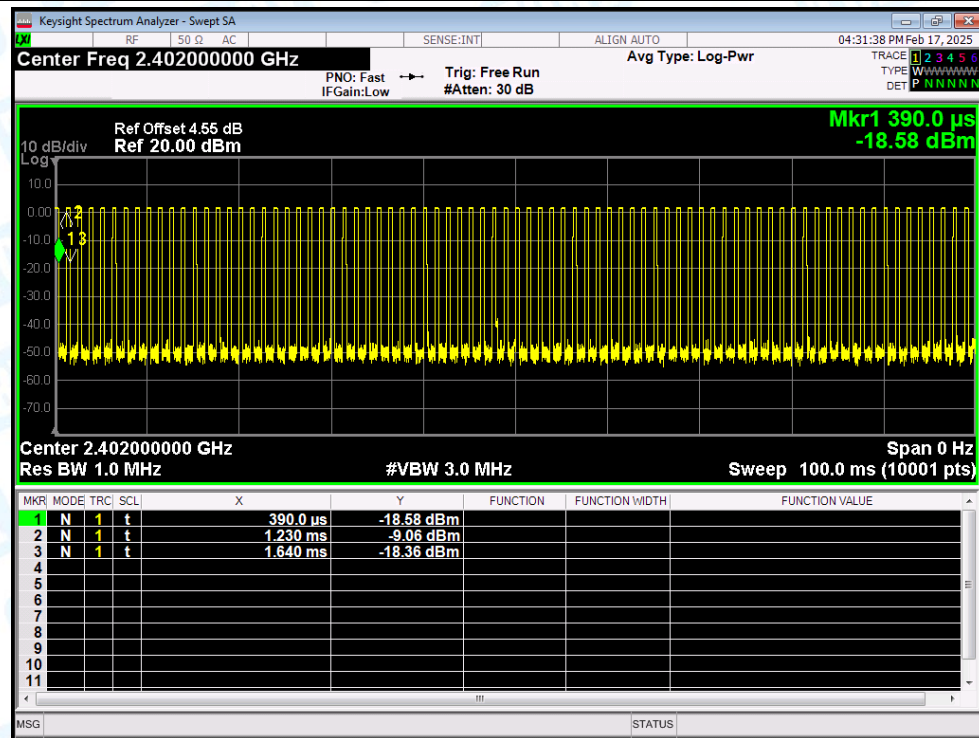
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1. Duty Cycle

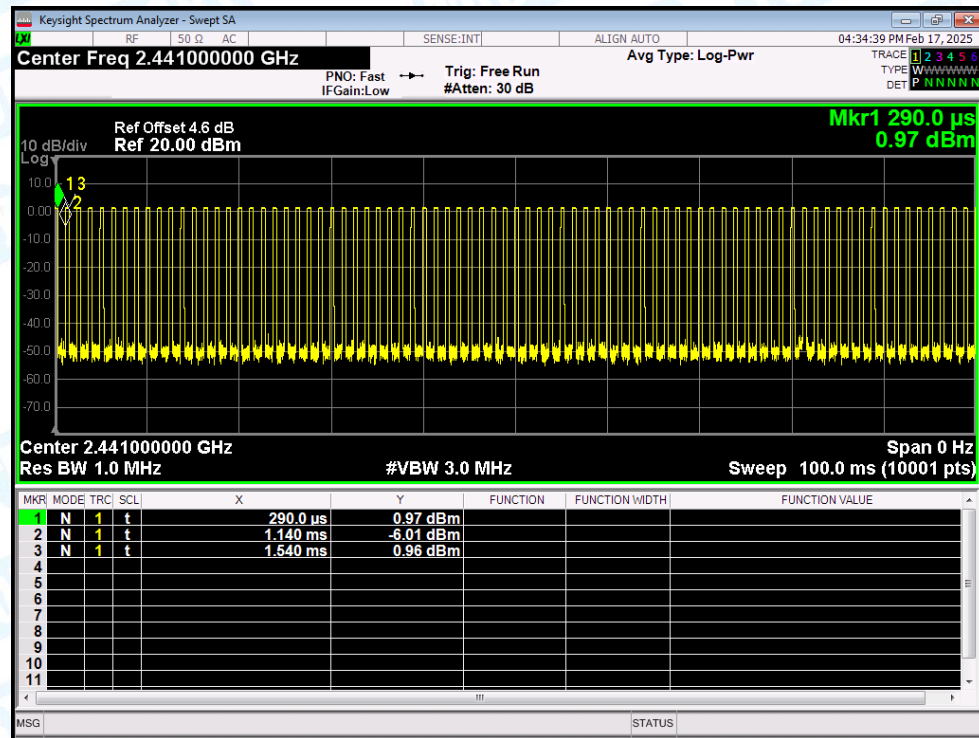
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32	4.95	2.5
NVNT	1-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	2-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	3-DH1	2402	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2441	Ant1	33.6	4.74	2.38
NVNT	3-DH1	2480	Ant1	32.8	4.84	2.44

Test Graphs

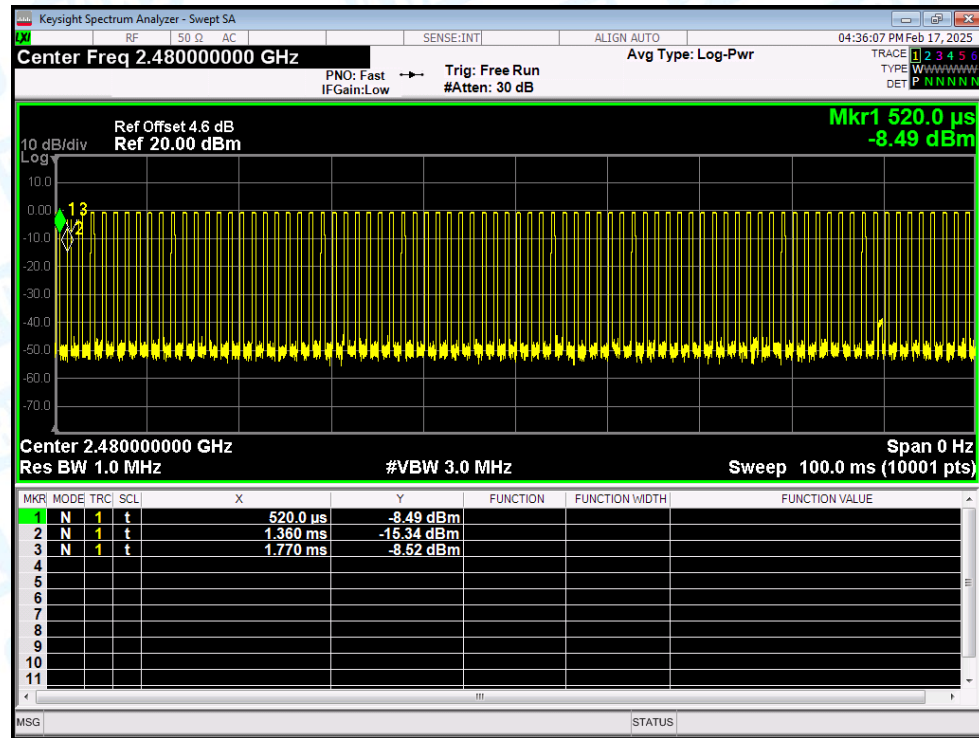
Duty Cycle NVNT 1-DH1 2402MHz Ant1



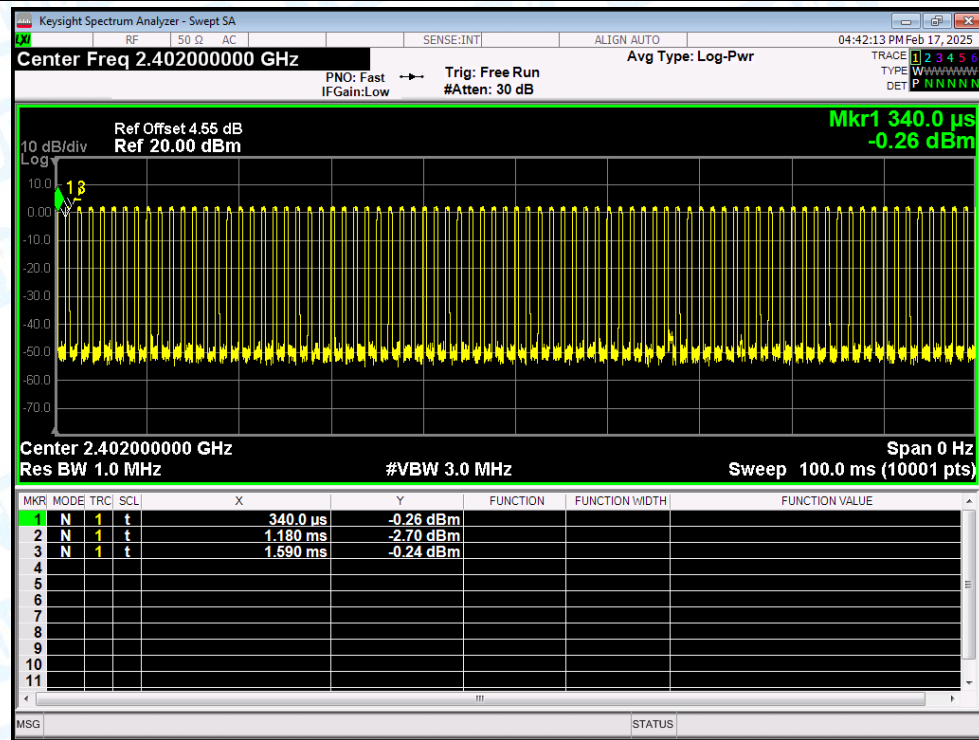
Duty Cycle NVNT 1-DH1 2441MHz Ant1



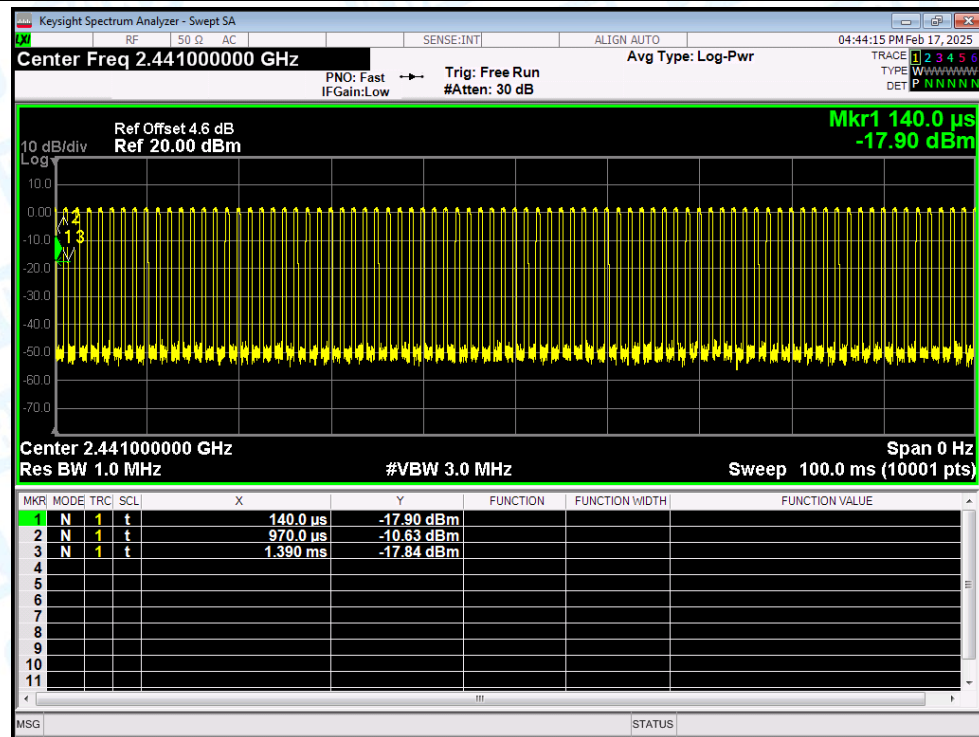
Duty Cycle NVNT 1-DH1 2480MHz Ant1



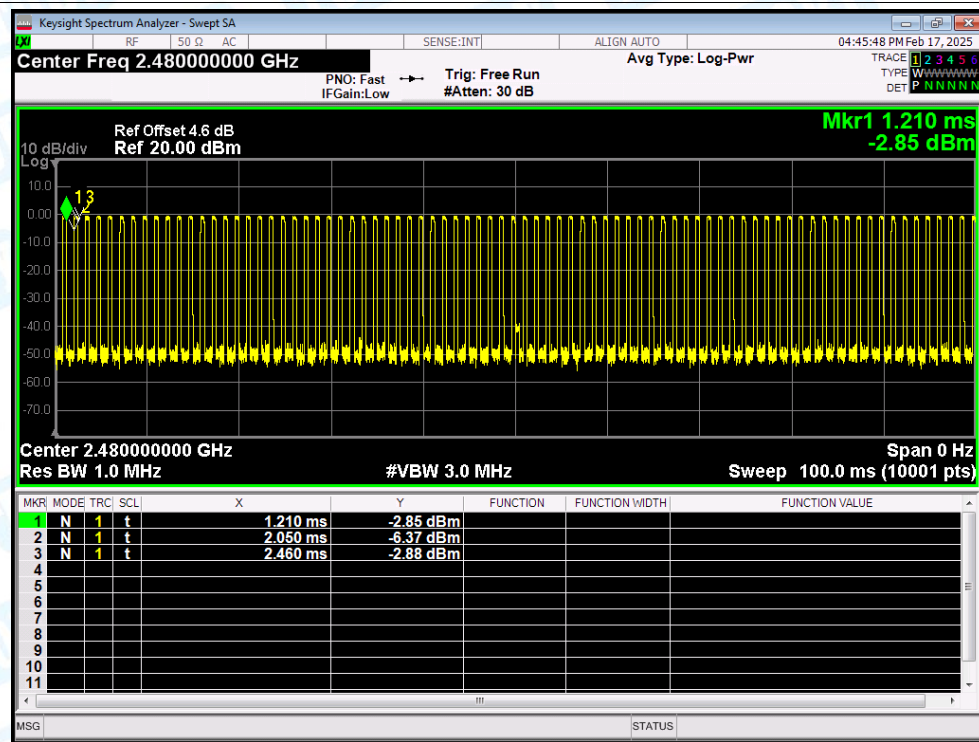
Duty Cycle NVNT 2-DH1 2402MHz Ant1



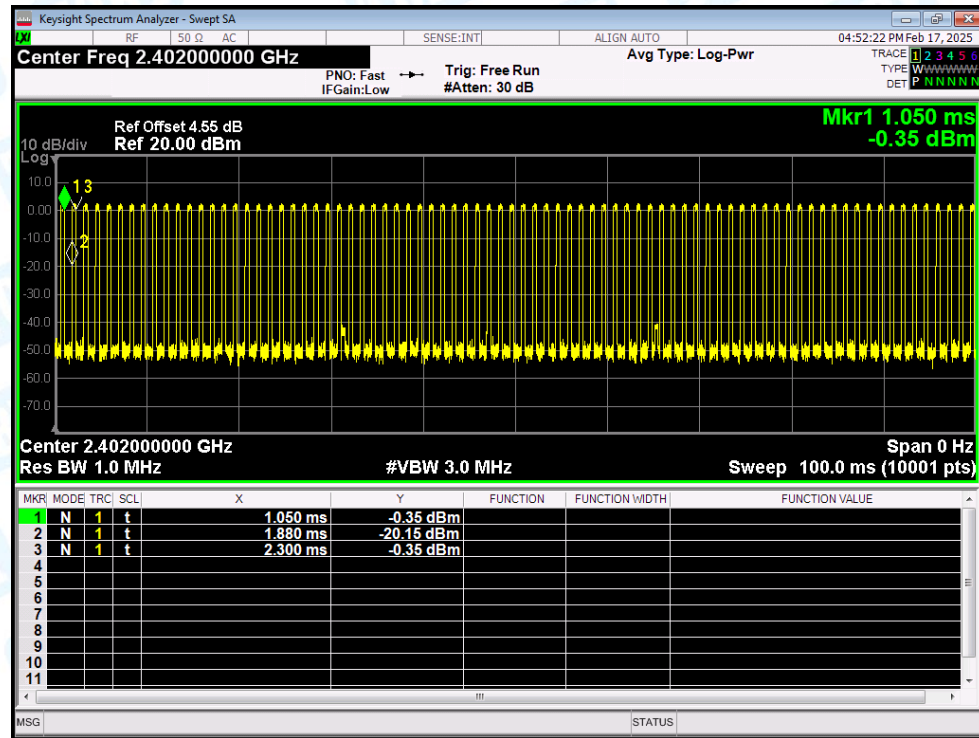
Duty Cycle NVNT 2-DH1 2441MHz Ant1



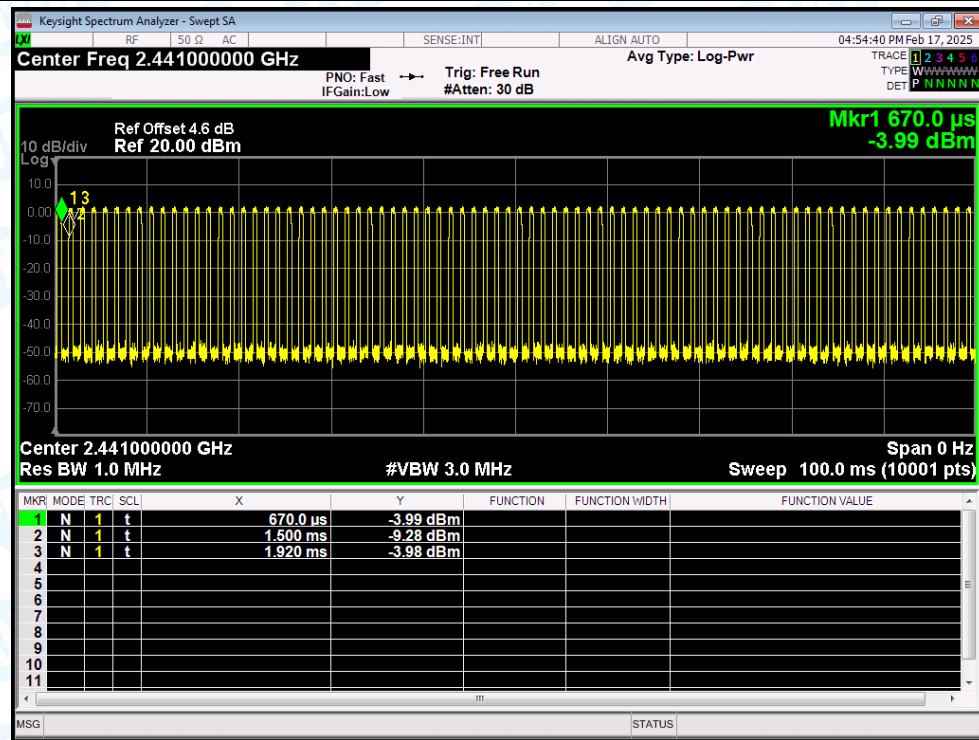
Duty Cycle NVNT 2-DH1 2480MHz Ant1

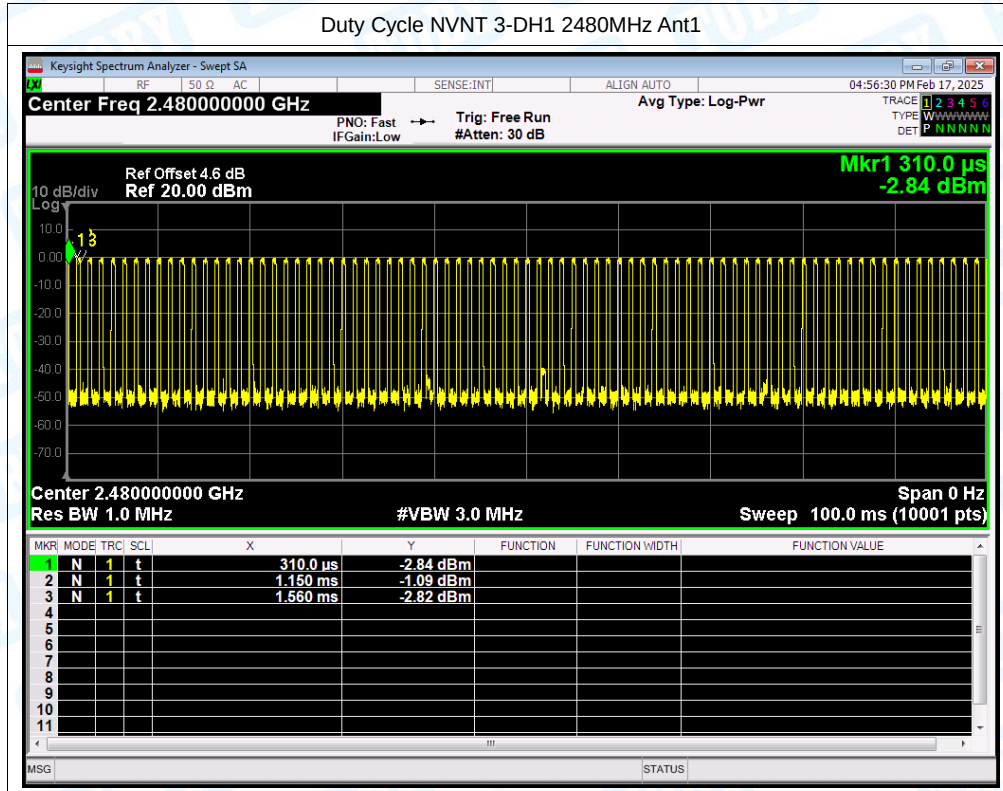


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



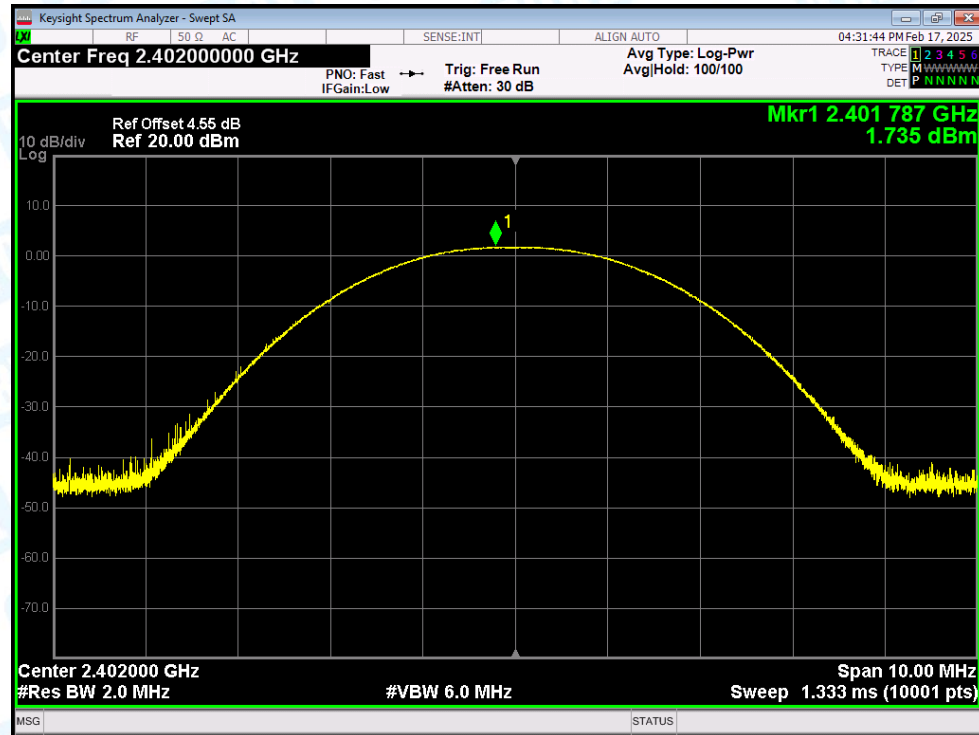


2. Maximum Conducted Output Power

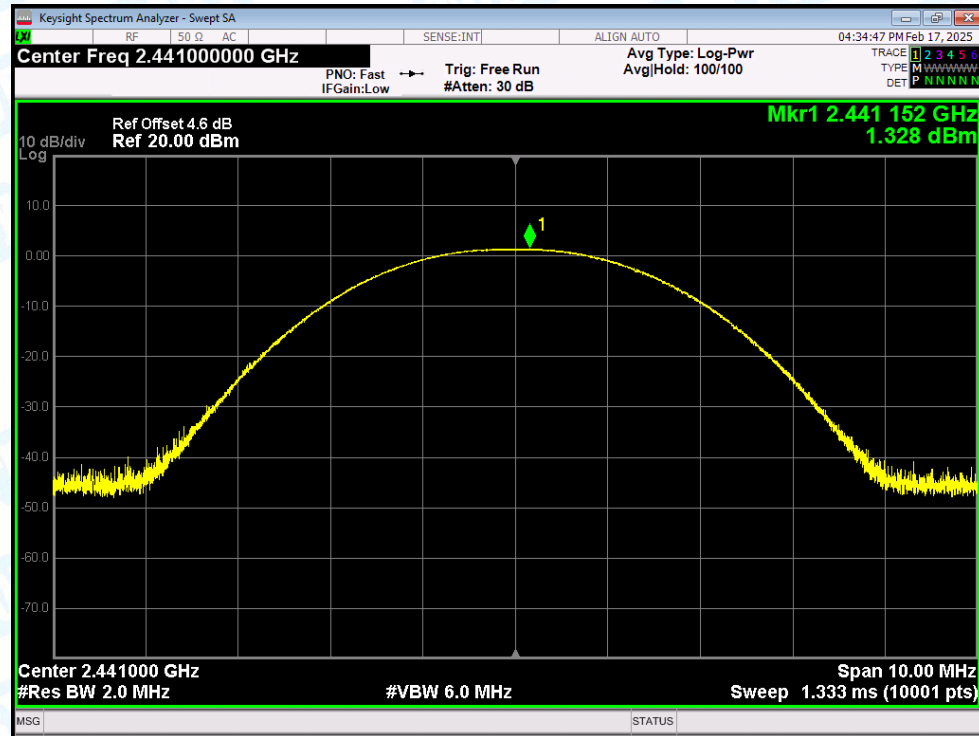
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	1.735	21	Pass
NVNT	1-DH1	2441	Ant1	1.328	21	Pass
NVNT	1-DH1	2480	Ant1	-0.631	21	Pass
NVNT	1-DH3	2441	Ant1	1.04	21	Pass
NVNT	1-DH5	2441	Ant1	1.139	21	Pass
NVNT	2-DH1	2402	Ant1	2.756	21	Pass
NVNT	2-DH1	2441	Ant1	2.236	21	Pass
NVNT	2-DH1	2480	Ant1	0.103	21	Pass
NVNT	2-DH3	2441	Ant1	2.051	21	Pass
NVNT	2-DH5	2441	Ant1	1.998	21	Pass
NVNT	3-DH1	2402	Ant1	2.968	21	Pass
NVNT	3-DH1	2441	Ant1	2.562	21	Pass
NVNT	3-DH1	2480	Ant1	0.368	21	Pass
NVNT	3-DH3	2441	Ant1	2.223	21	Pass
NVNT	3-DH5	2441	Ant1	2.099	21	Pass

Test Graphs

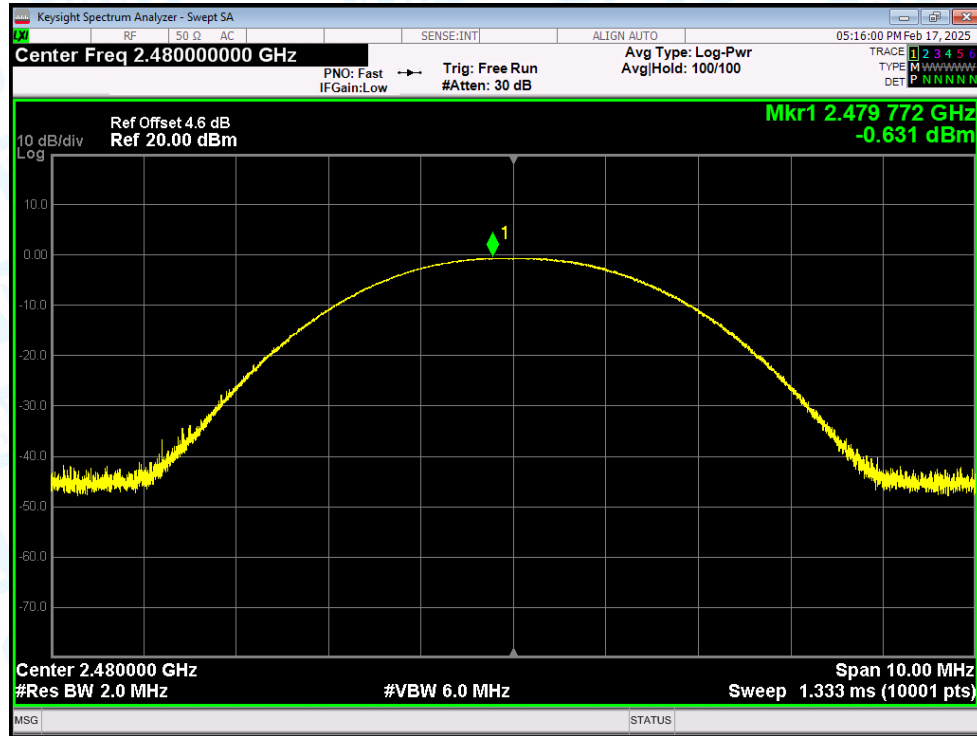
Power NVNT 1-DH1 2402MHz Ant1



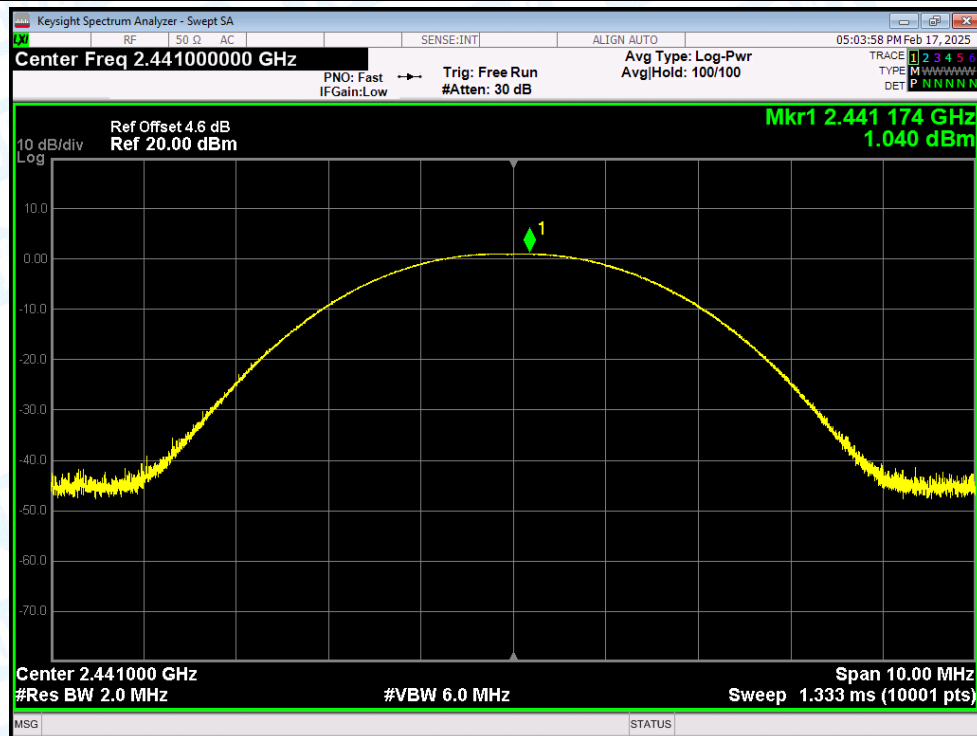
Power NVNT 1-DH1 2441MHz Ant1



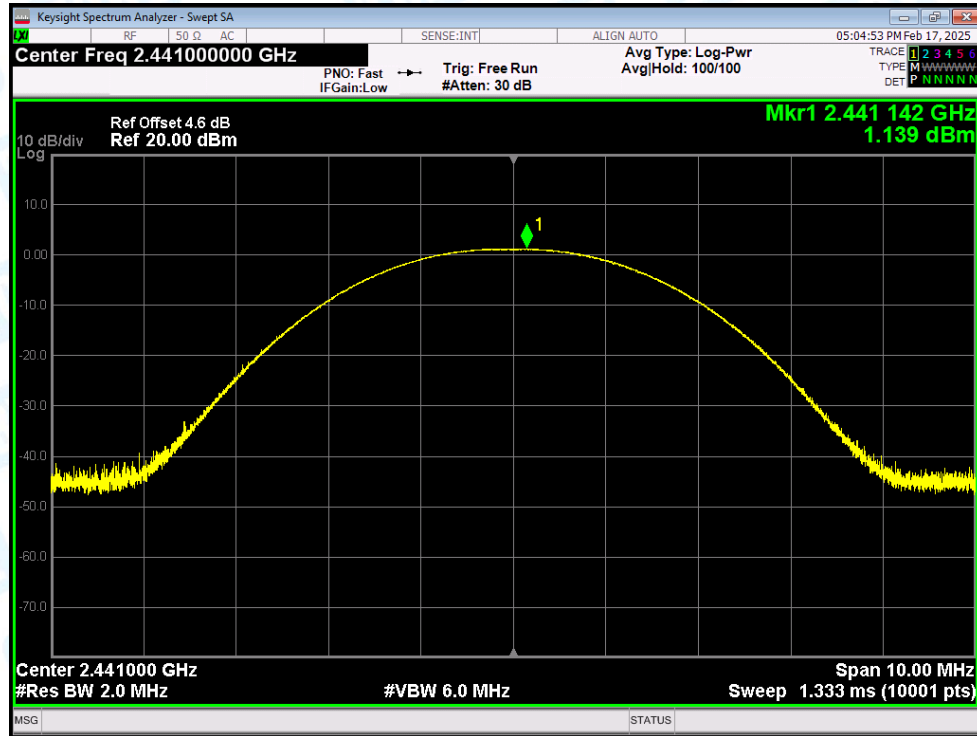
Power NVNT 1-DH1 2480MHz Ant1



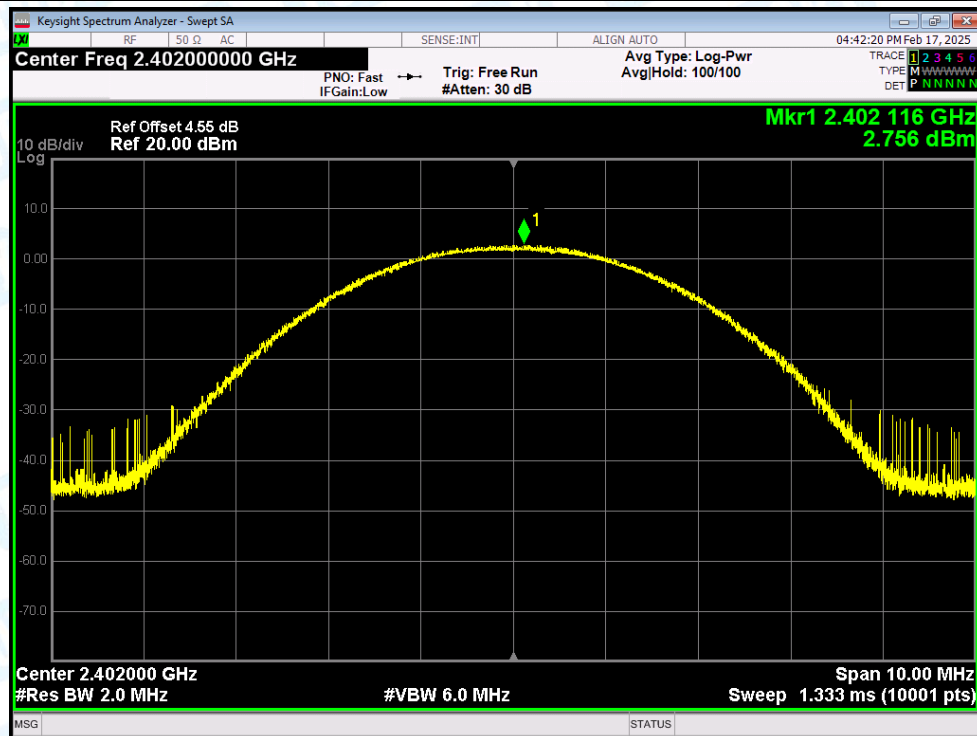
Power NVNT 1-DH3 2441MHz Ant1



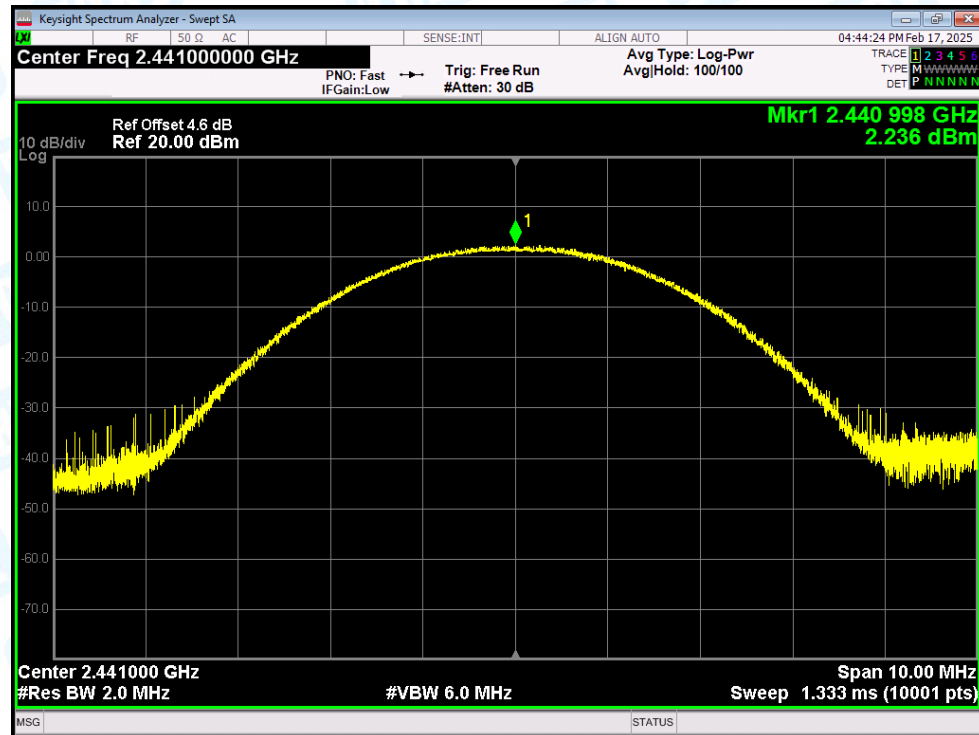
Power NVNT 1-DH5 2441MHz Ant1



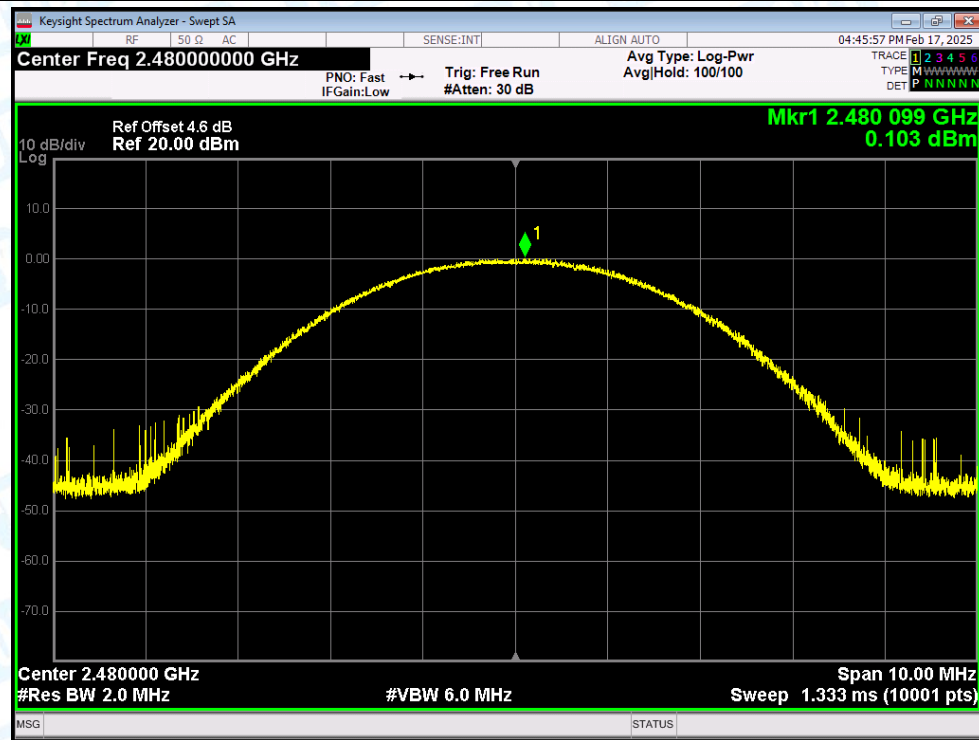
Power NVNT 2-DH1 2402MHz Ant1



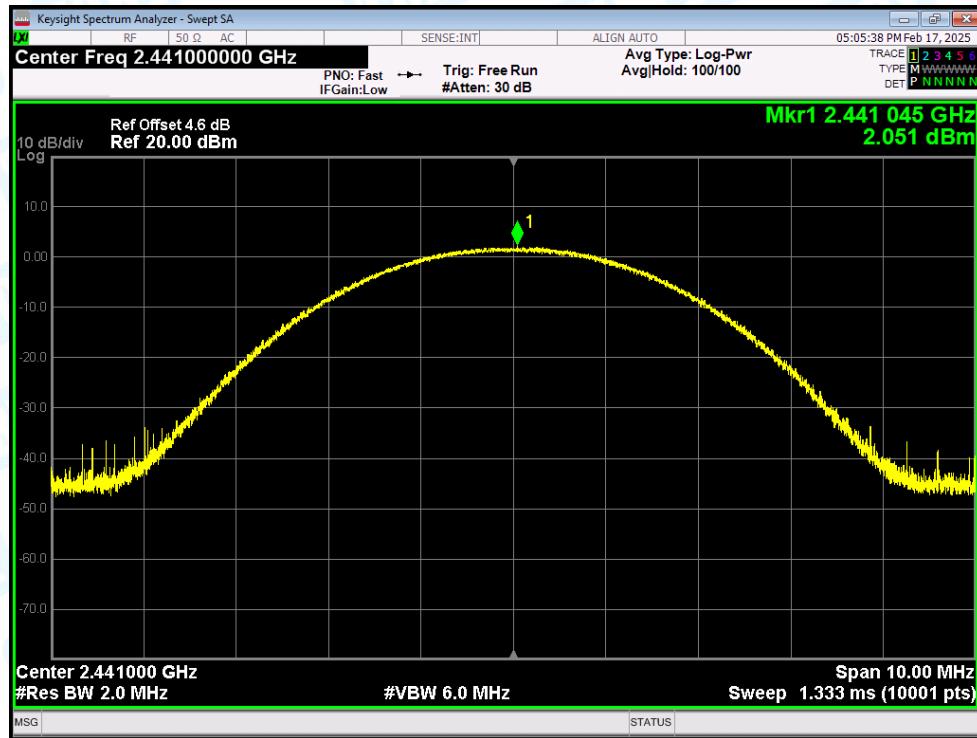
Power NVNT 2-DH1 2441MHz Ant1



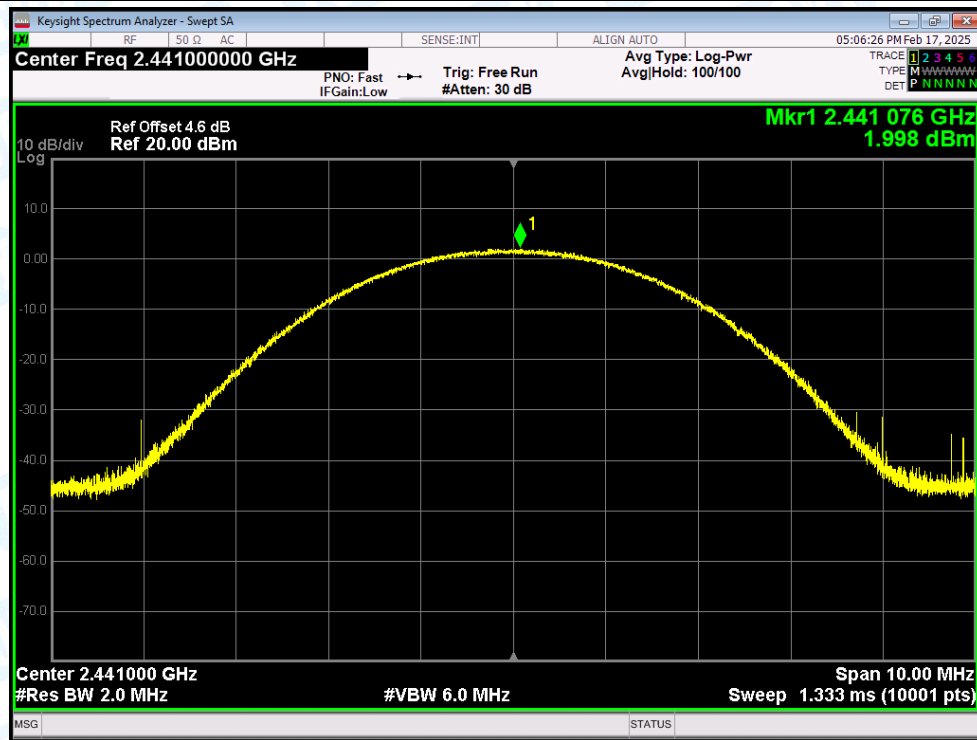
Power NVNT 2-DH1 2480MHz Ant1



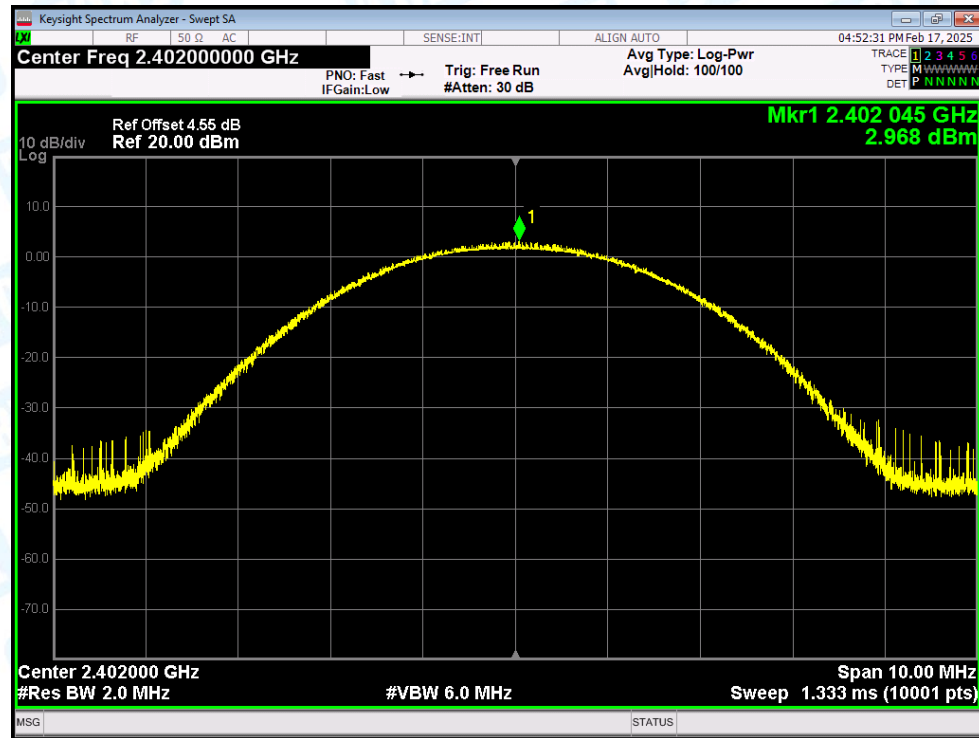
Power NVNT 2-DH3 2441MHz Ant1



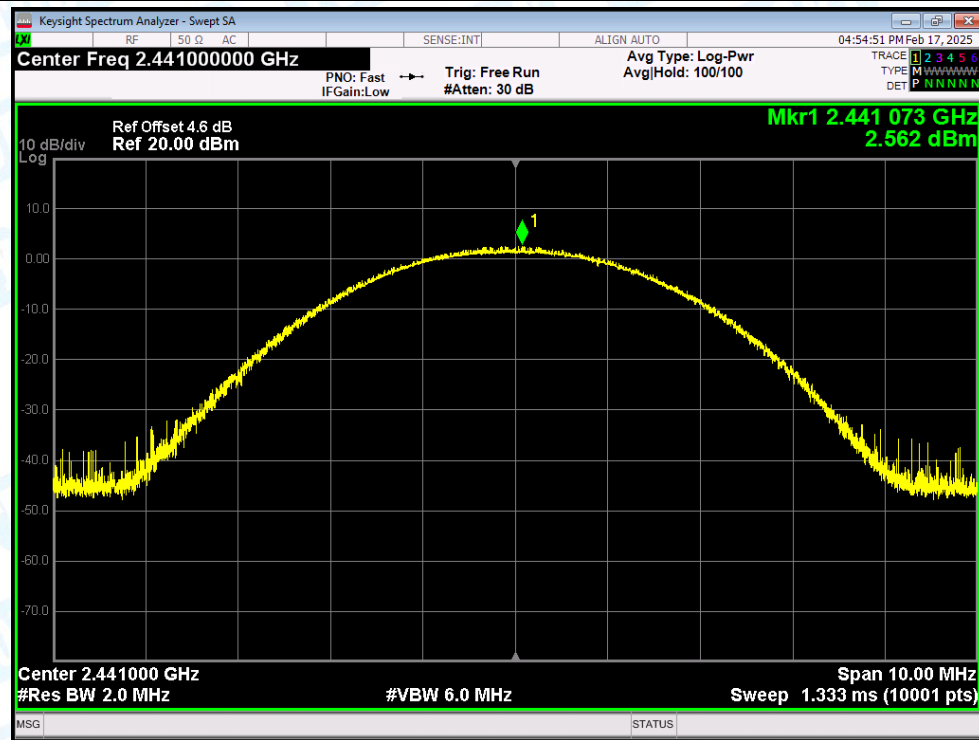
Power NVNT 2-DH5 2441MHz Ant1



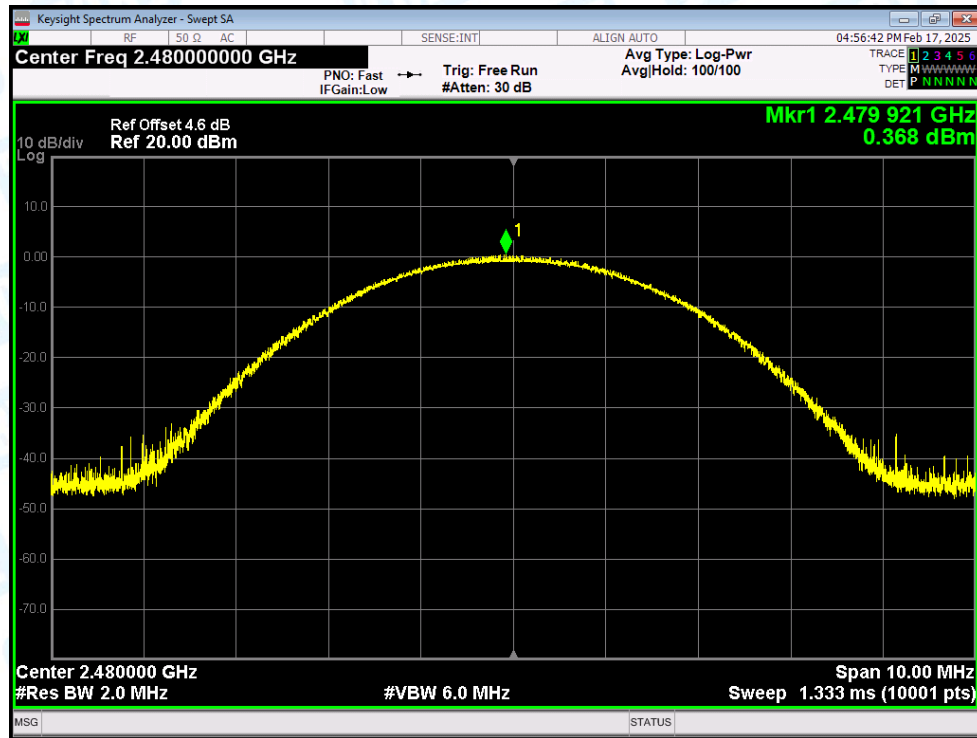
Power NVNT 3-DH1 2402MHz Ant1



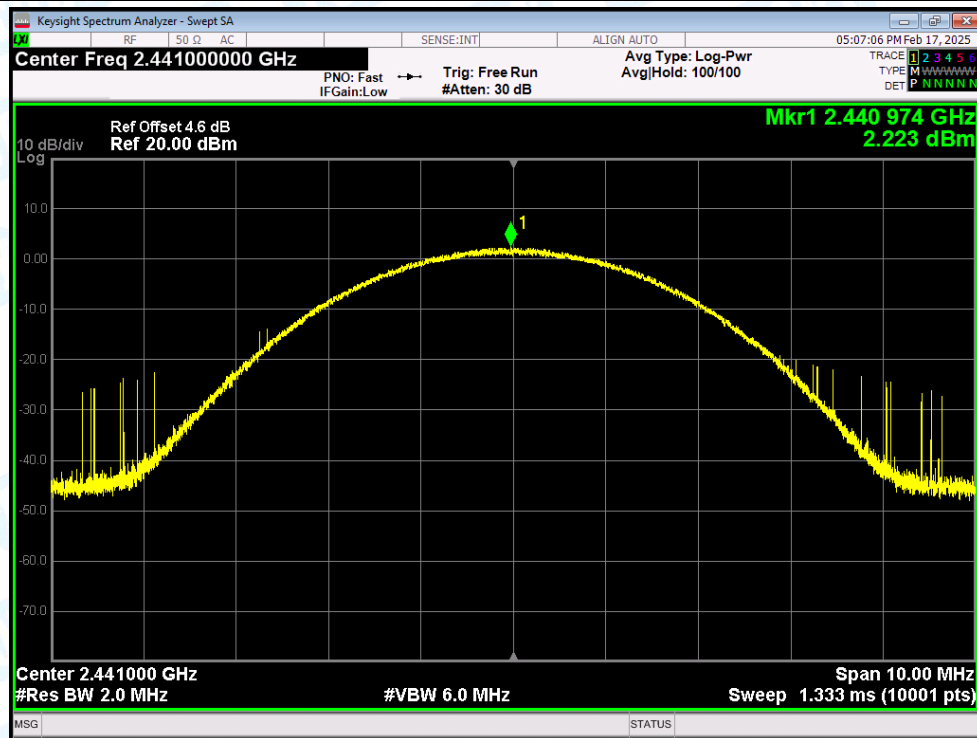
Power NVNT 3-DH1 2441MHz Ant1

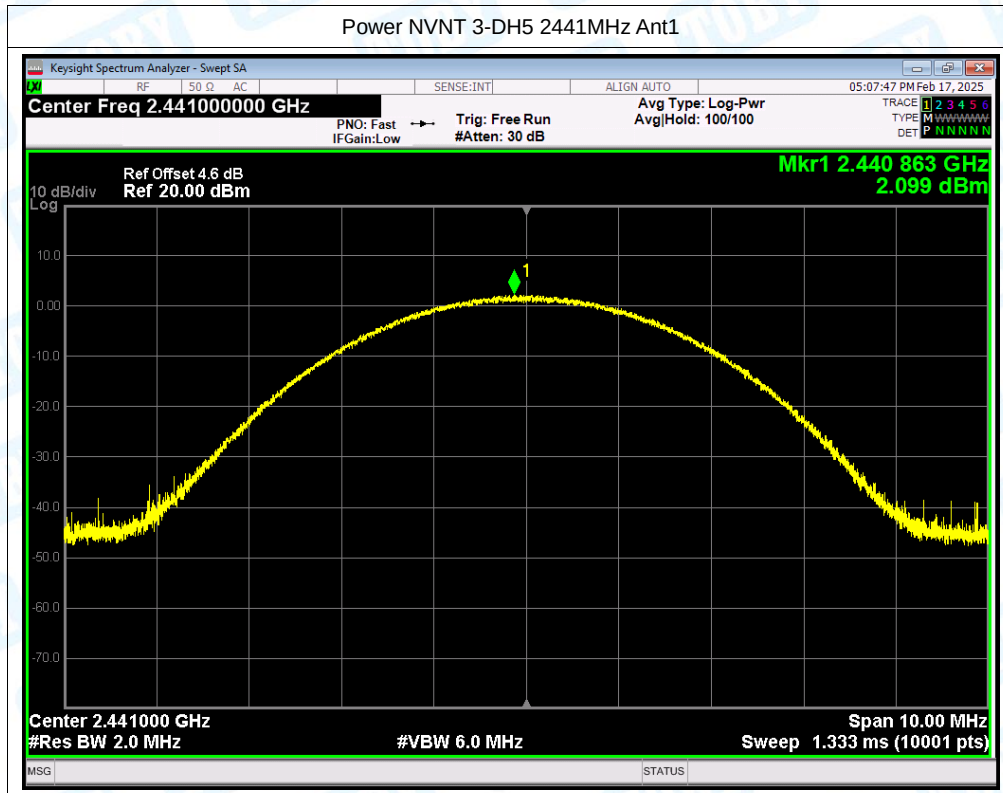


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



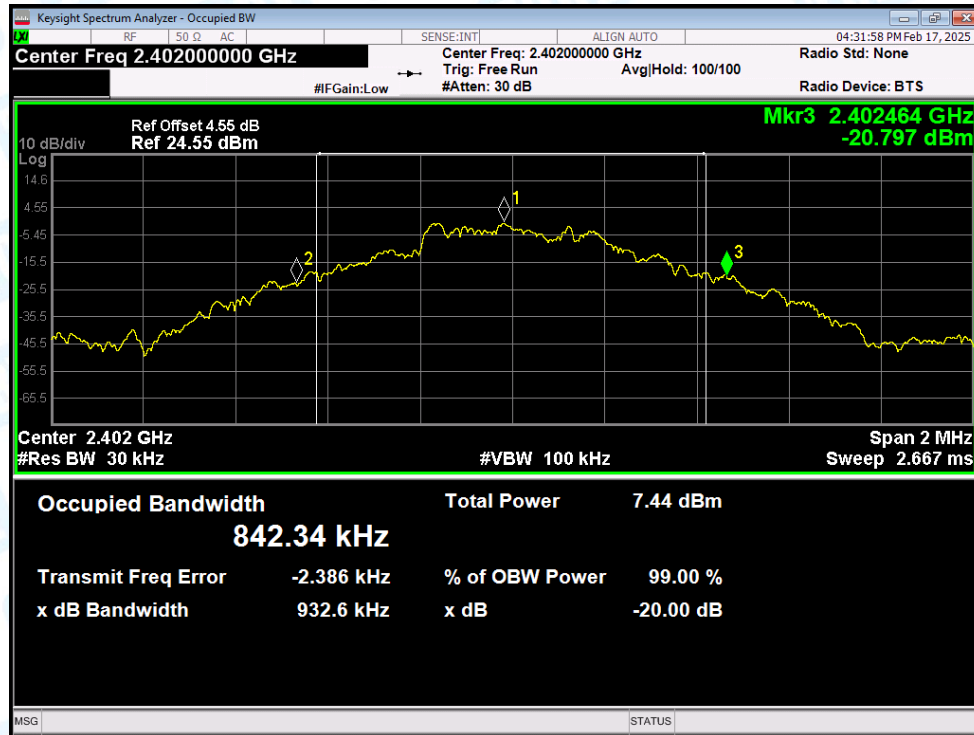


3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.93	0	Pass
NVNT	1-DH1	2441	Ant1	0.93	0	Pass
NVNT	1-DH1	2480	Ant1	0.92	0	Pass
NVNT	2-DH1	2402	Ant1	1.25	0	Pass
NVNT	2-DH1	2441	Ant1	1.25	0	Pass
NVNT	2-DH1	2480	Ant1	1.25	0	Pass
NVNT	3-DH1	2402	Ant1	1.2	0	Pass
NVNT	3-DH1	2441	Ant1	1.2	0	Pass
NVNT	3-DH1	2480	Ant1	1.2	0	Pass

Test Graphs

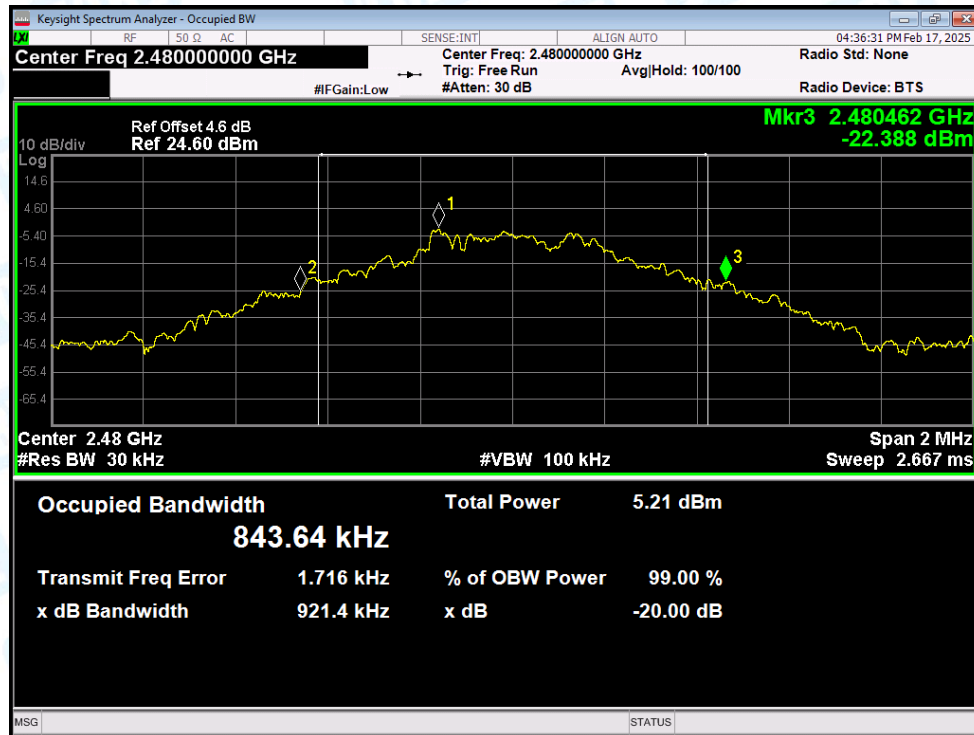
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



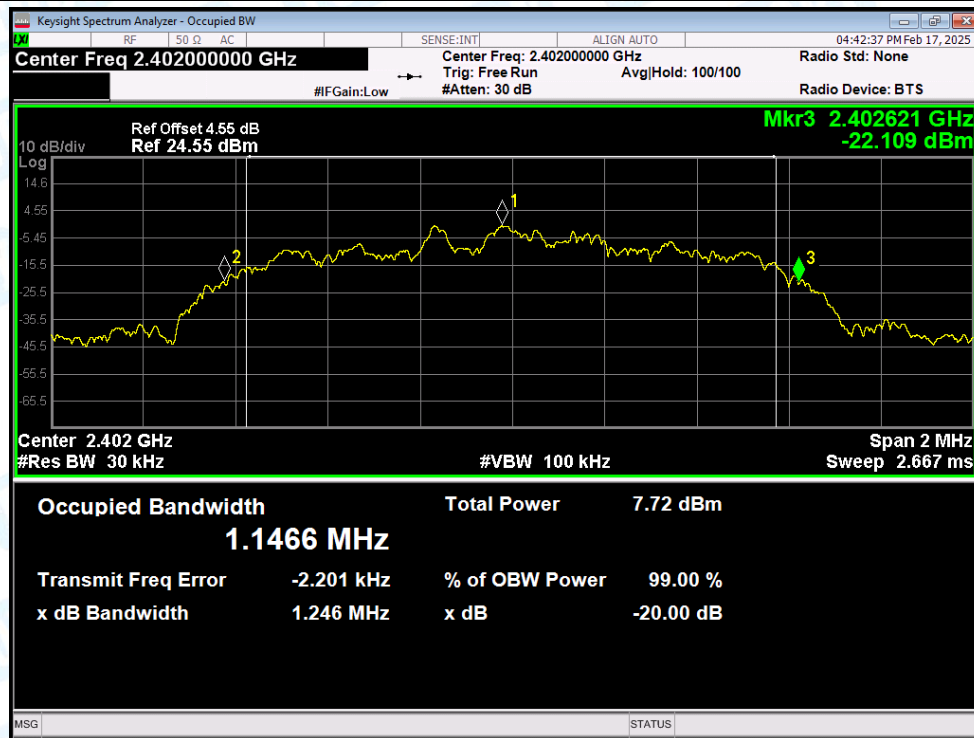
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



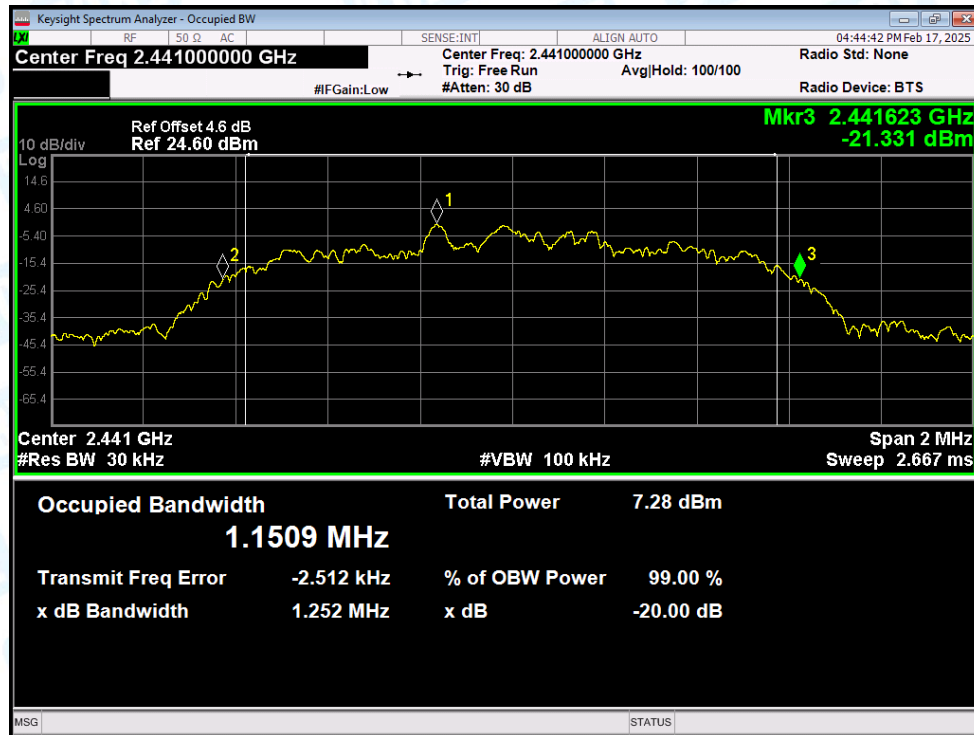
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



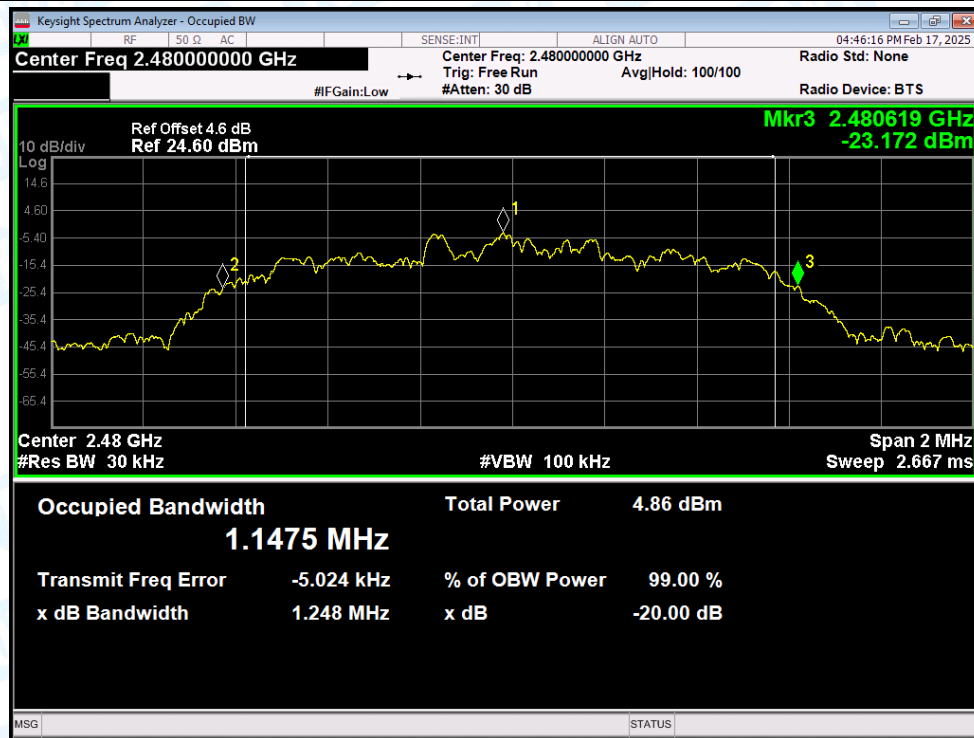
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



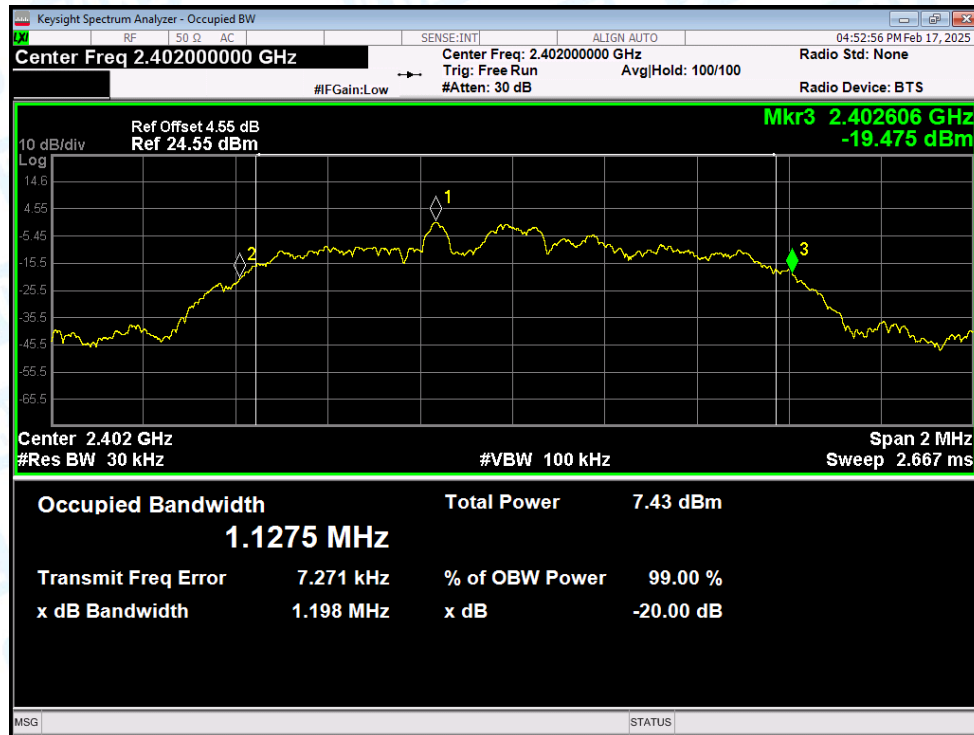
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



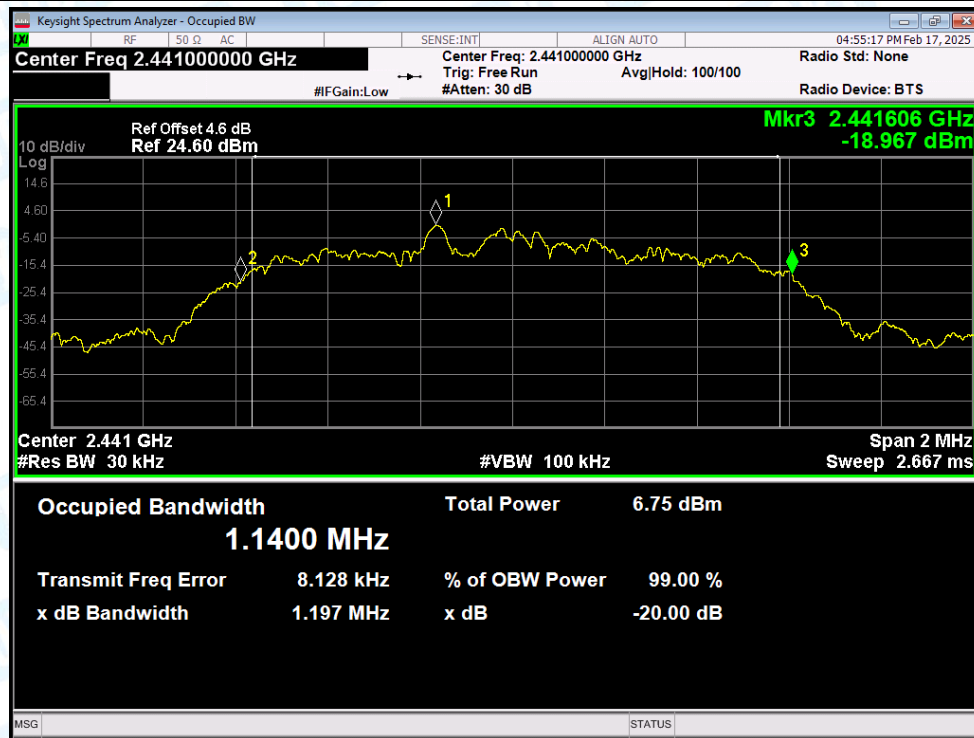
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

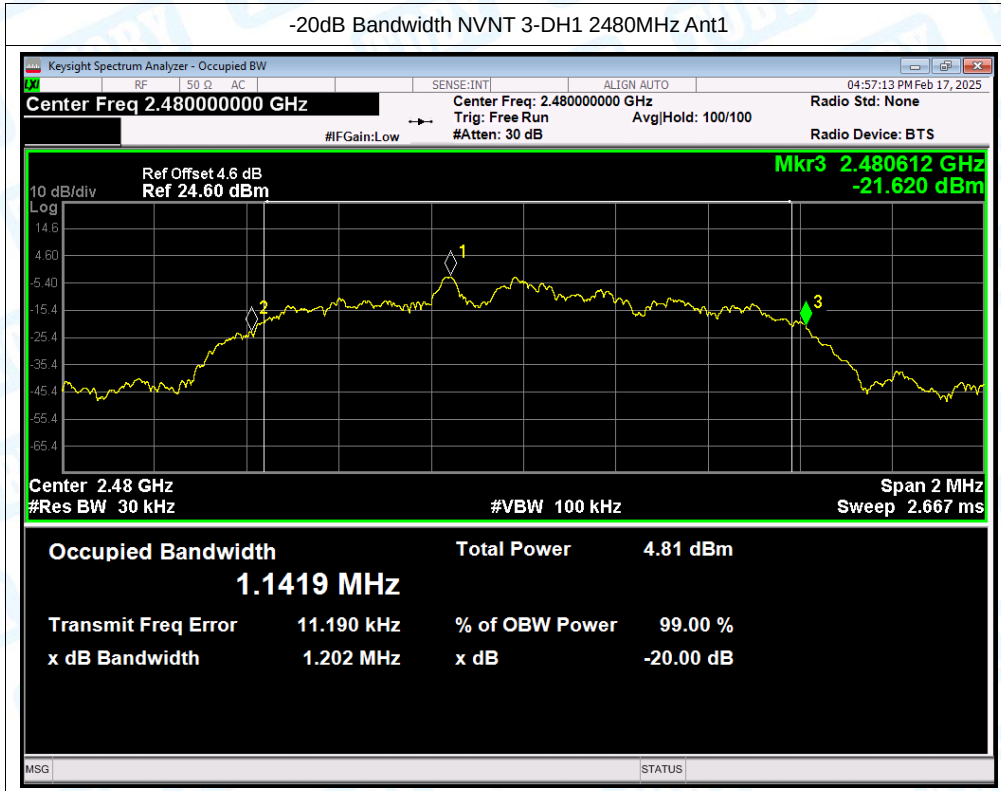


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



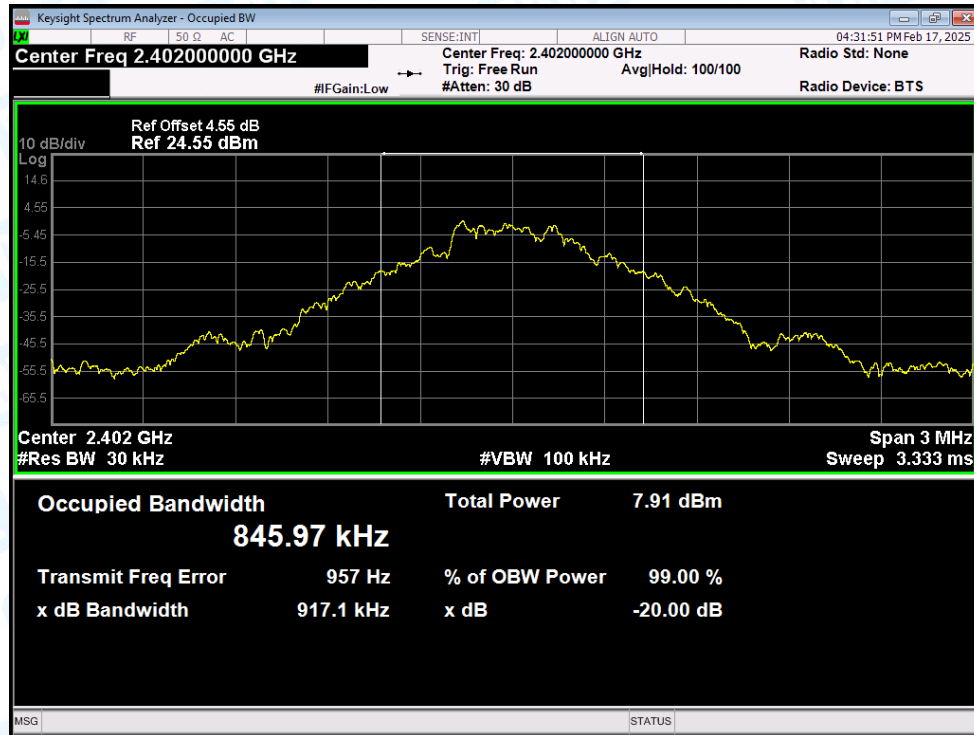


4. Occupied Channel Bandwidth

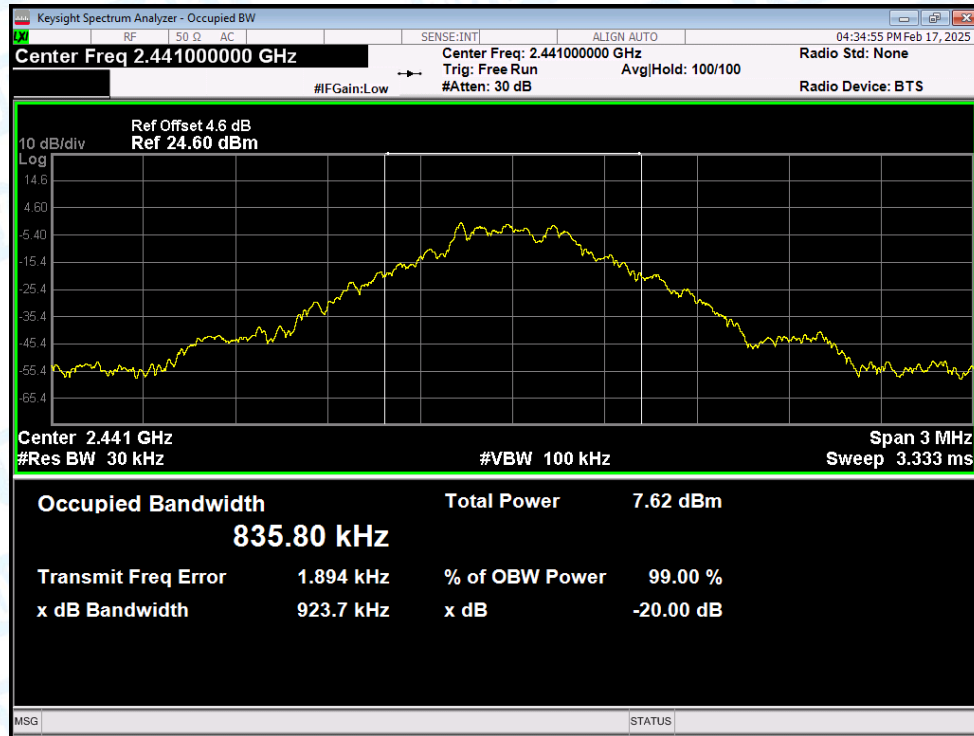
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.846
NVNT	1-DH1	2441	Ant1	0.836
NVNT	1-DH1	2480	Ant1	0.862
NVNT	2-DH1	2402	Ant1	1.155
NVNT	2-DH1	2441	Ant1	1.148
NVNT	2-DH1	2480	Ant1	1.147
NVNT	3-DH1	2402	Ant1	1.136
NVNT	3-DH1	2441	Ant1	1.134
NVNT	3-DH1	2480	Ant1	1.139

Test Graphs

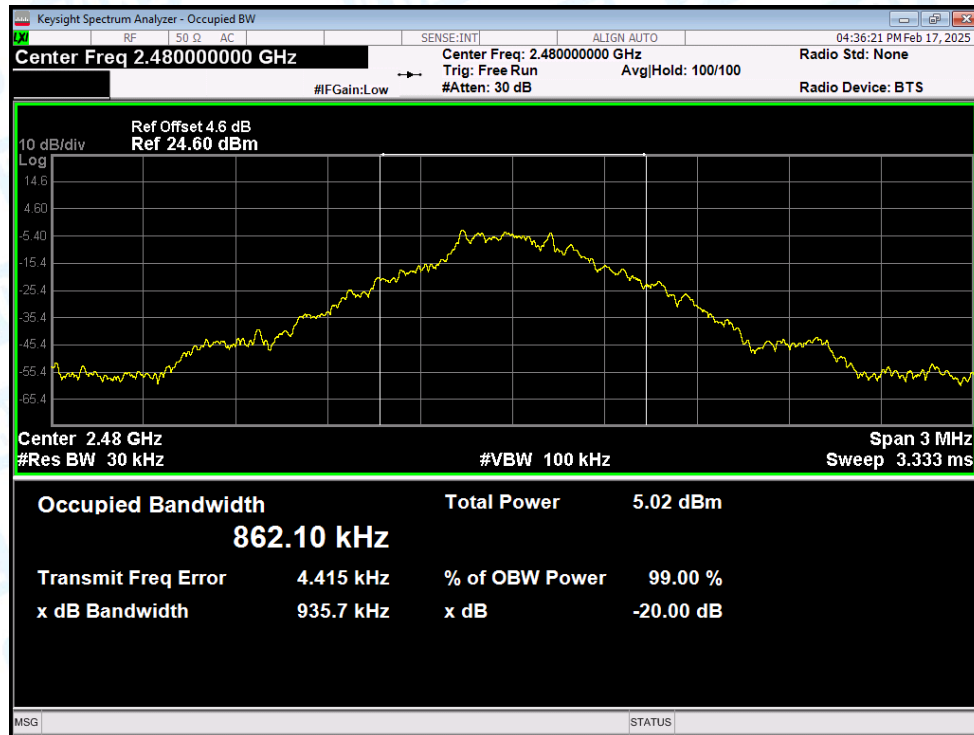
OBW NVNT 1-DH1 2402MHz Ant1



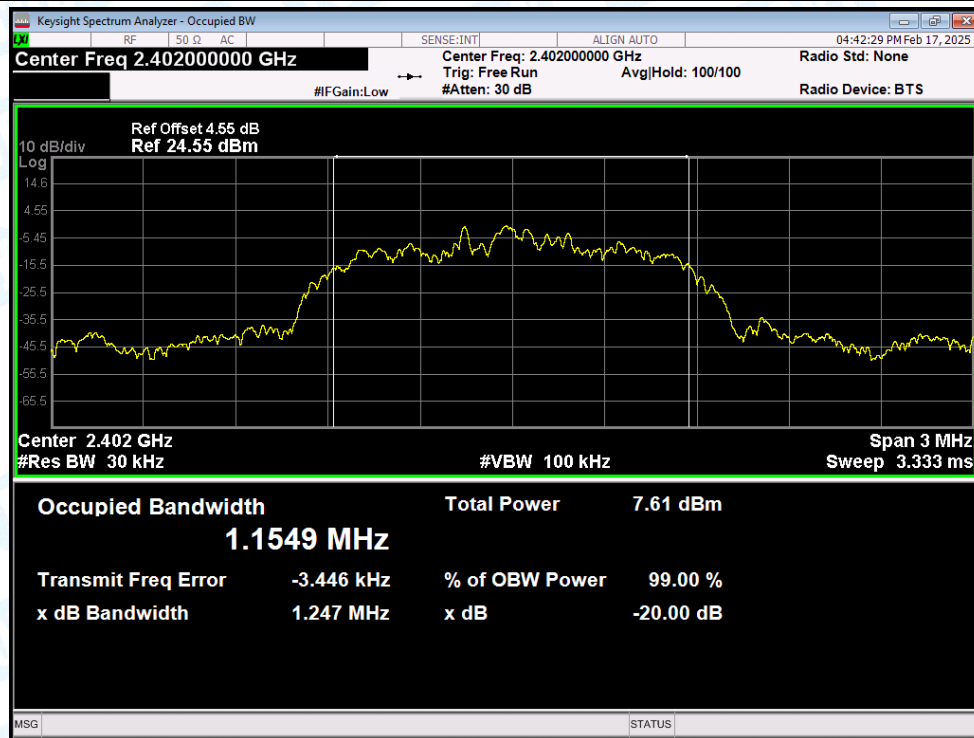
OBW NVNT 1-DH1 2441MHz Ant1



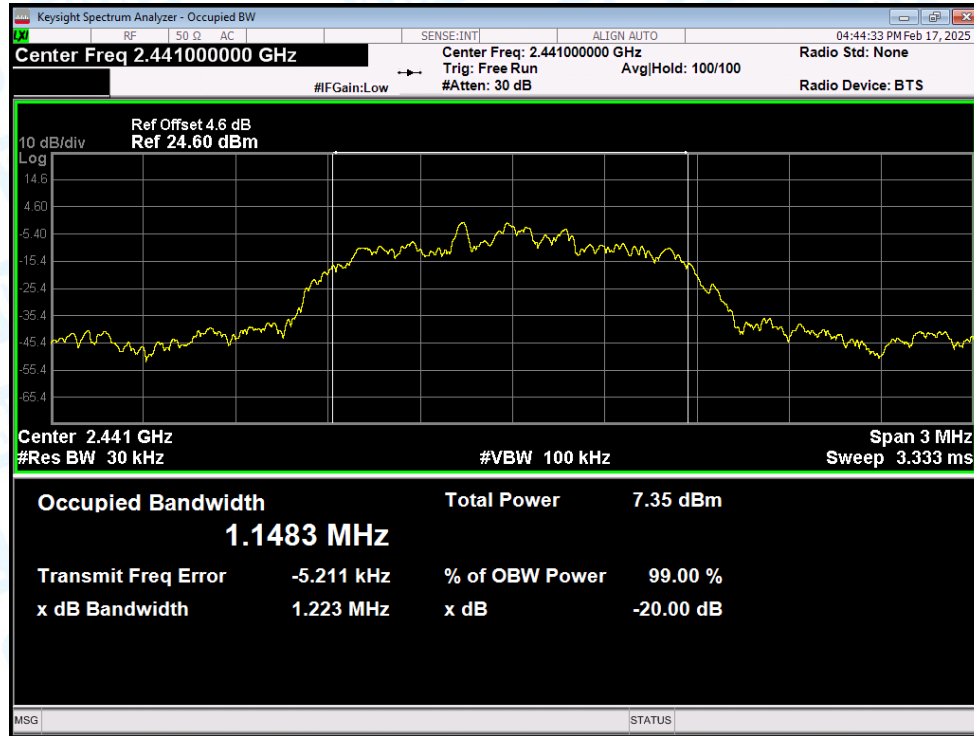
OBW NVNT 1-DH1 2480MHz Ant1



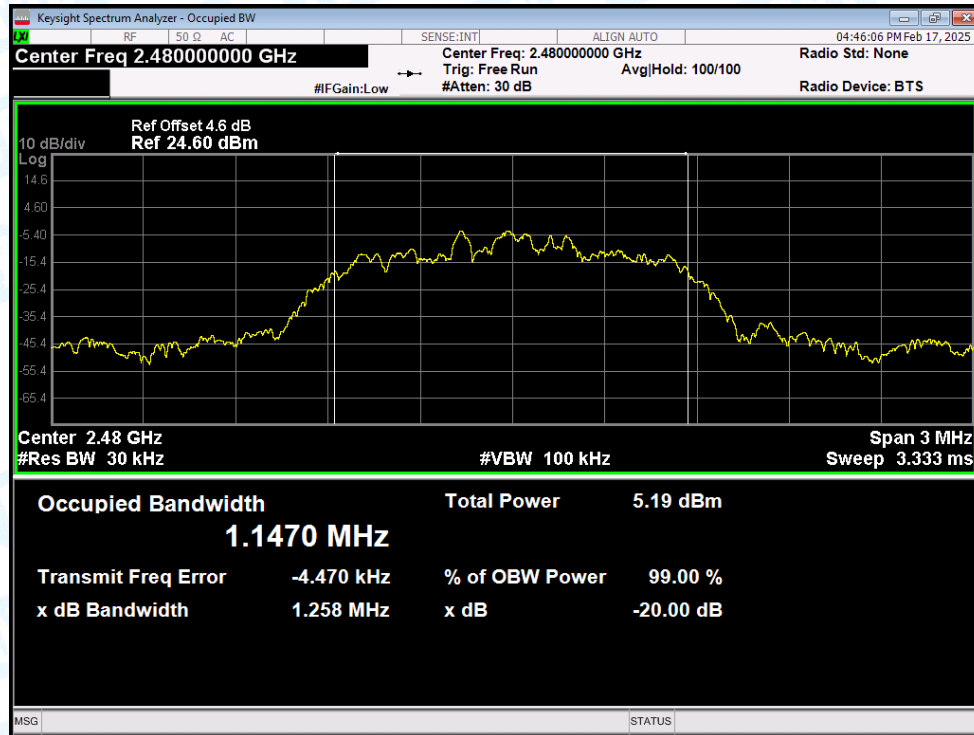
OBW NVNT 2-DH1 2402MHz Ant1



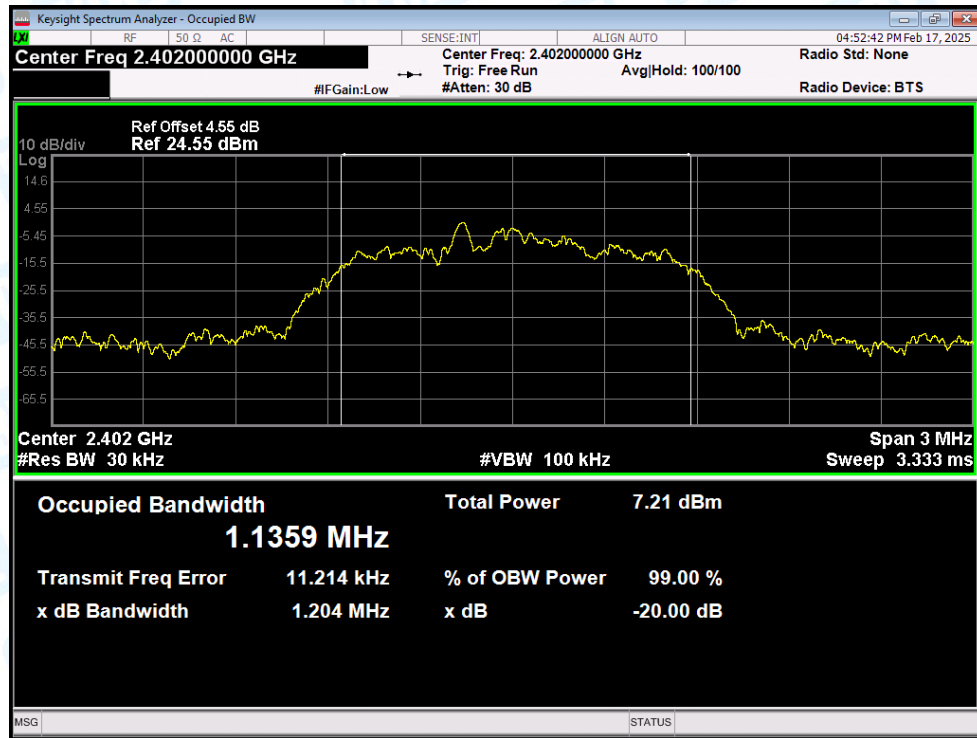
OBW NVNT 2-DH1 2441MHz Ant1



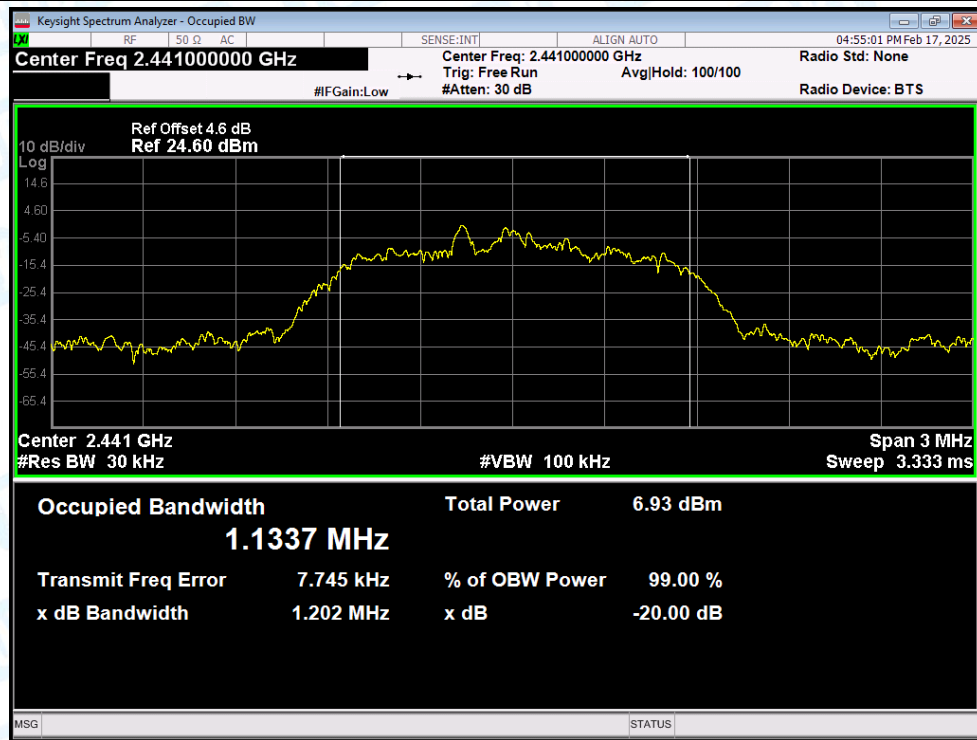
OBW NVNT 2-DH1 2480MHz Ant1

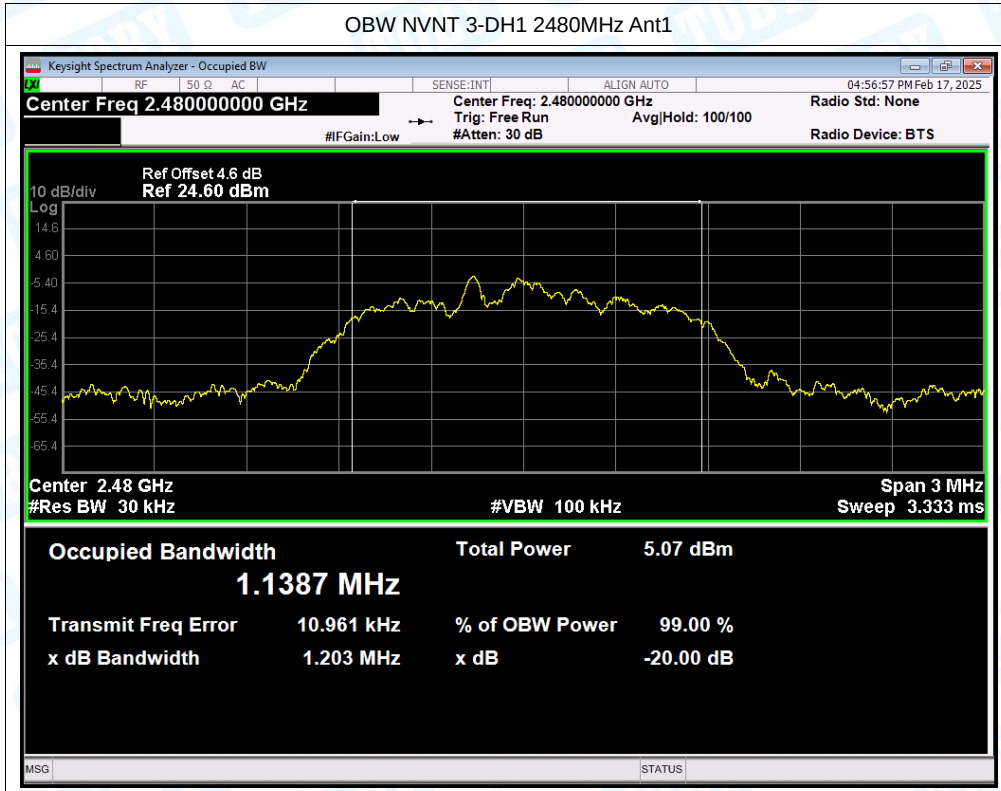


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



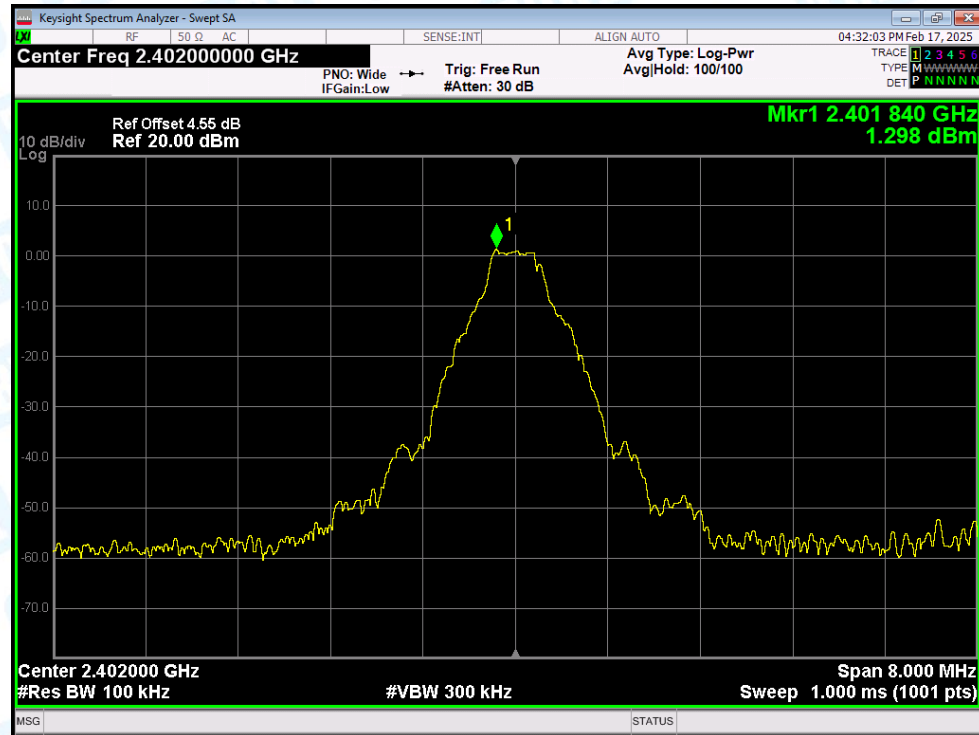


5. Band Edge

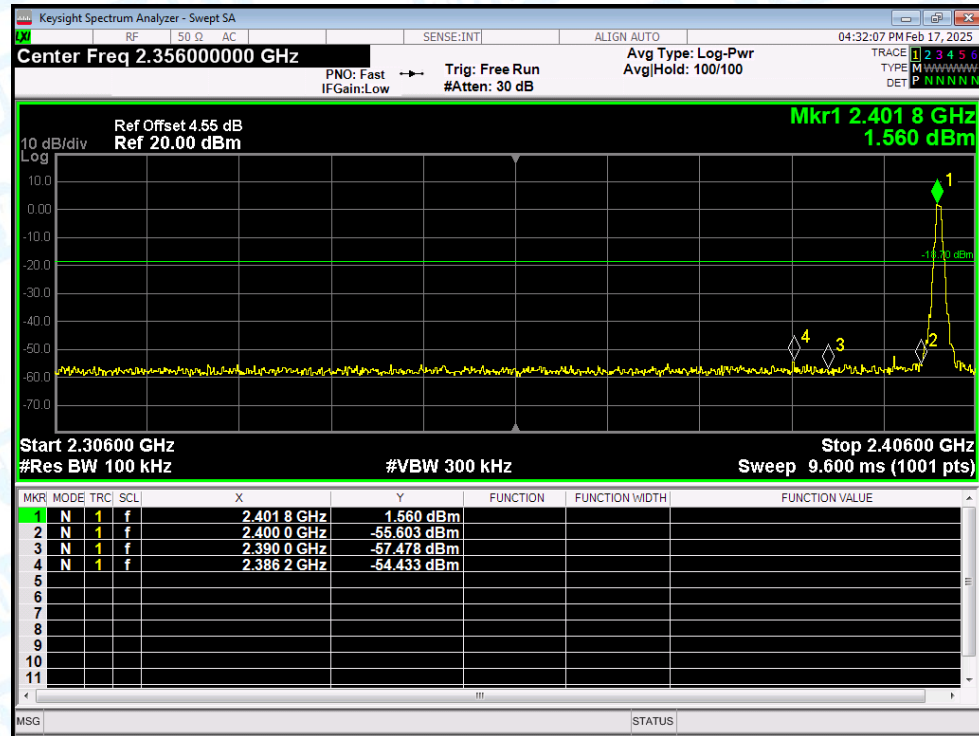
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-55.73	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-54.27	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-55.64	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-54.02	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-56.5	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.75	-20	Pass

Test Graphs

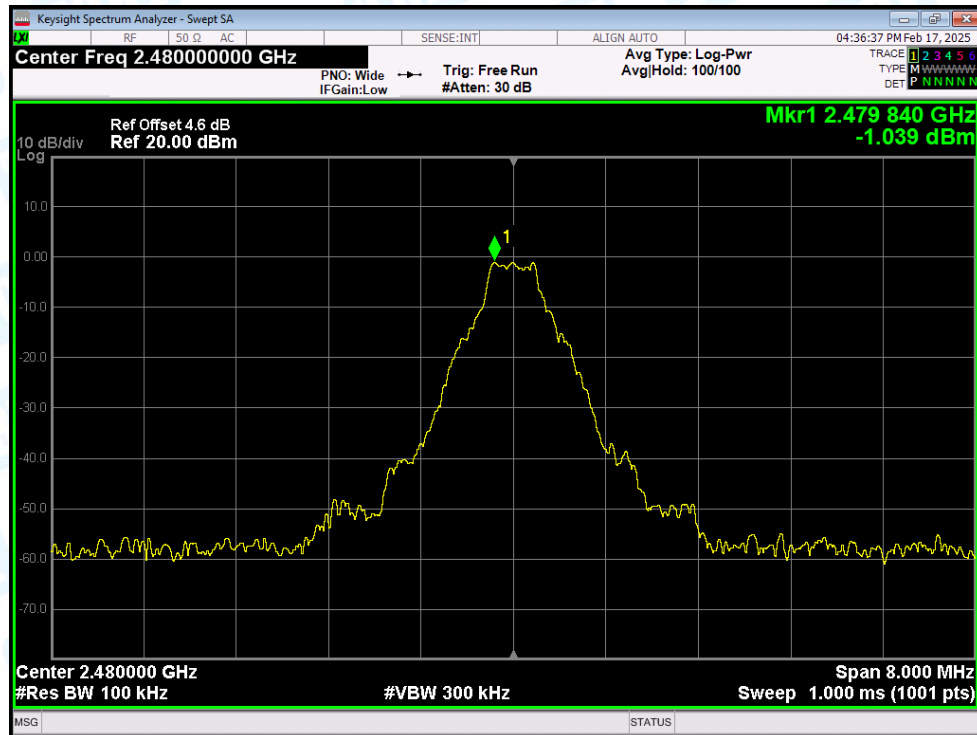
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



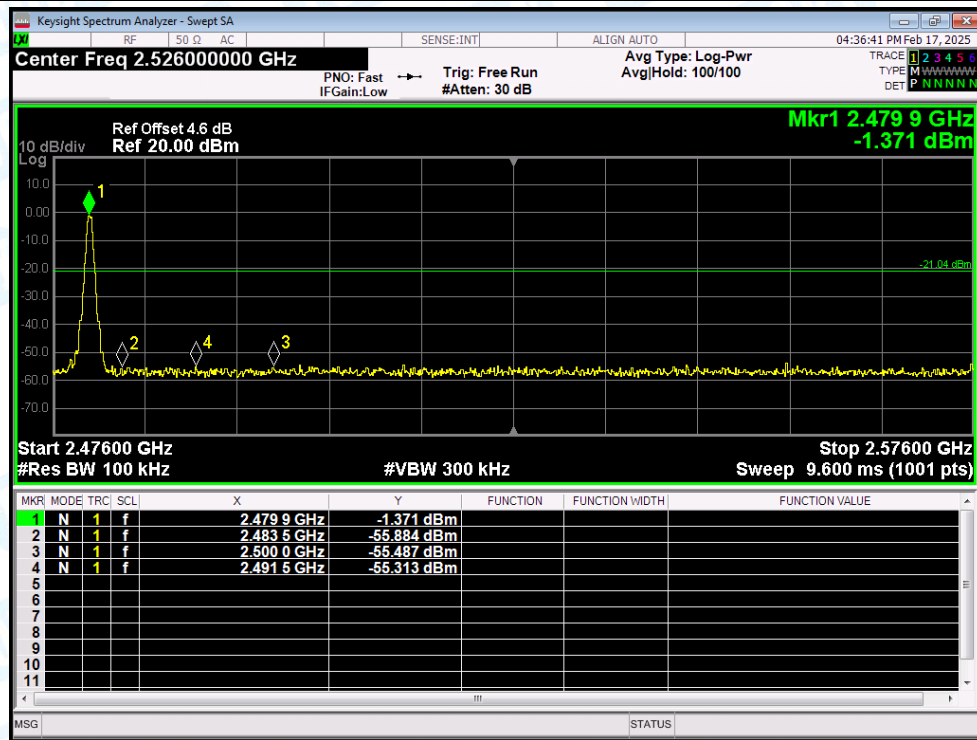
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



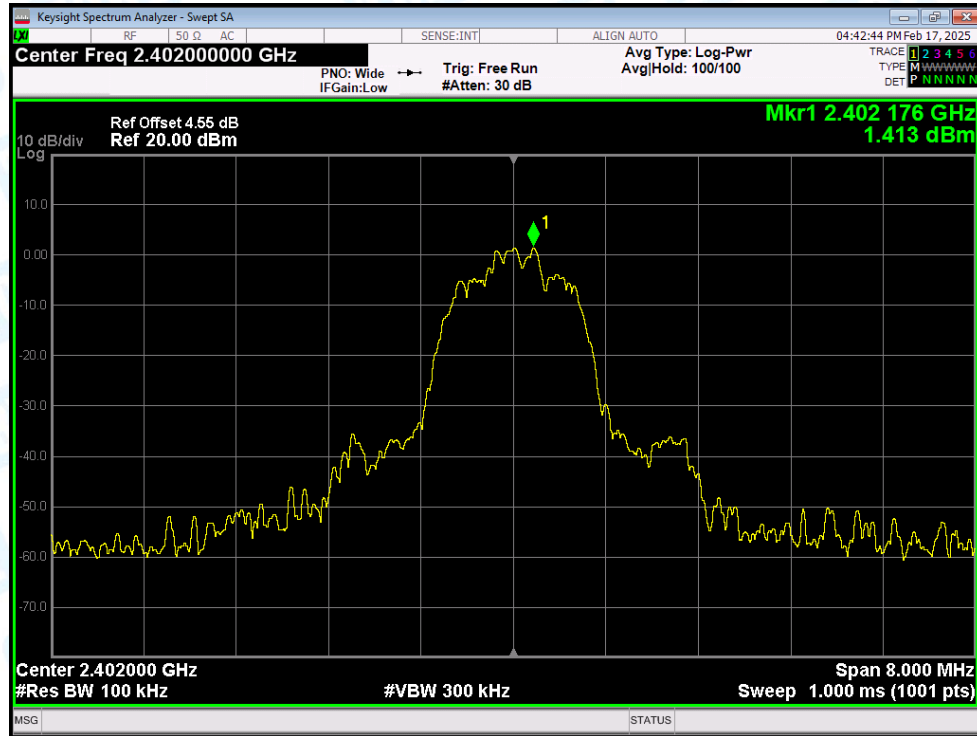
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



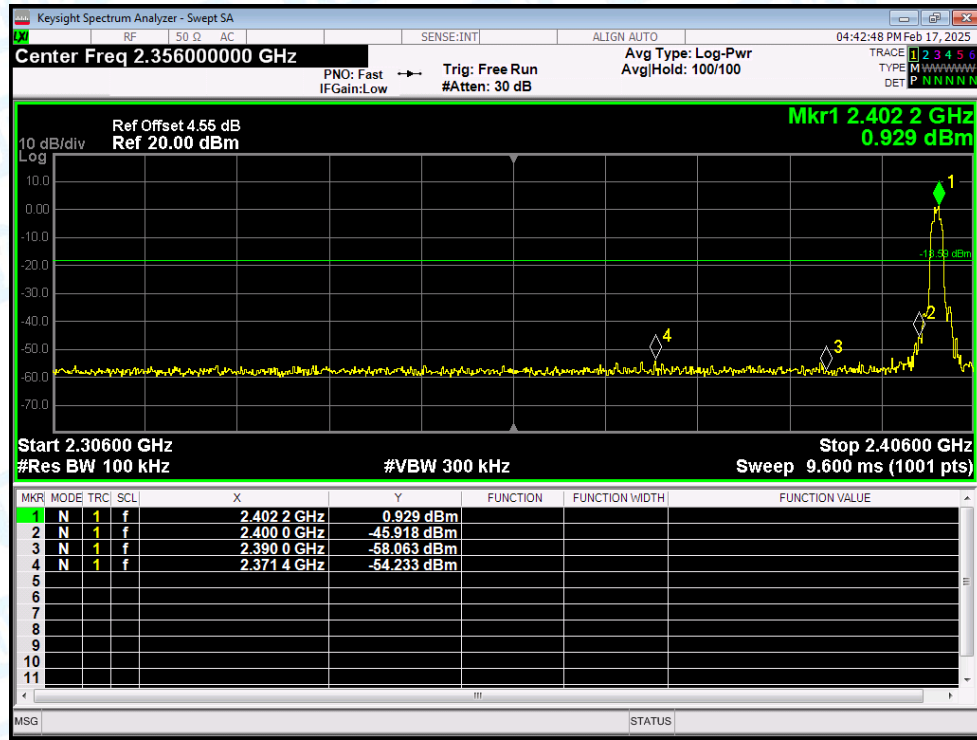
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



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



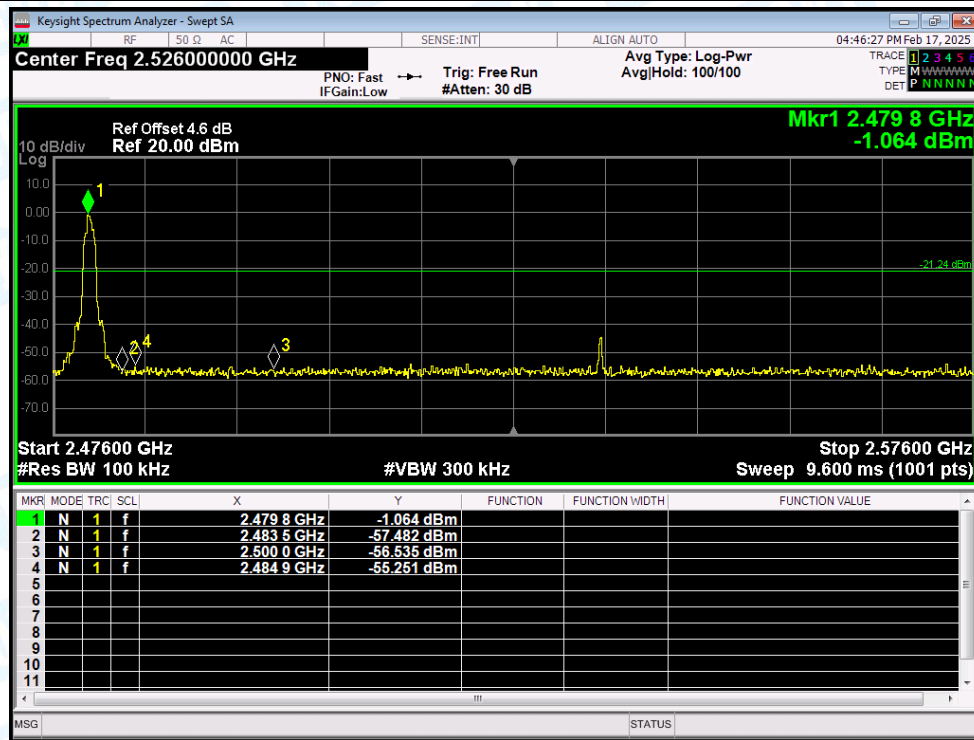
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



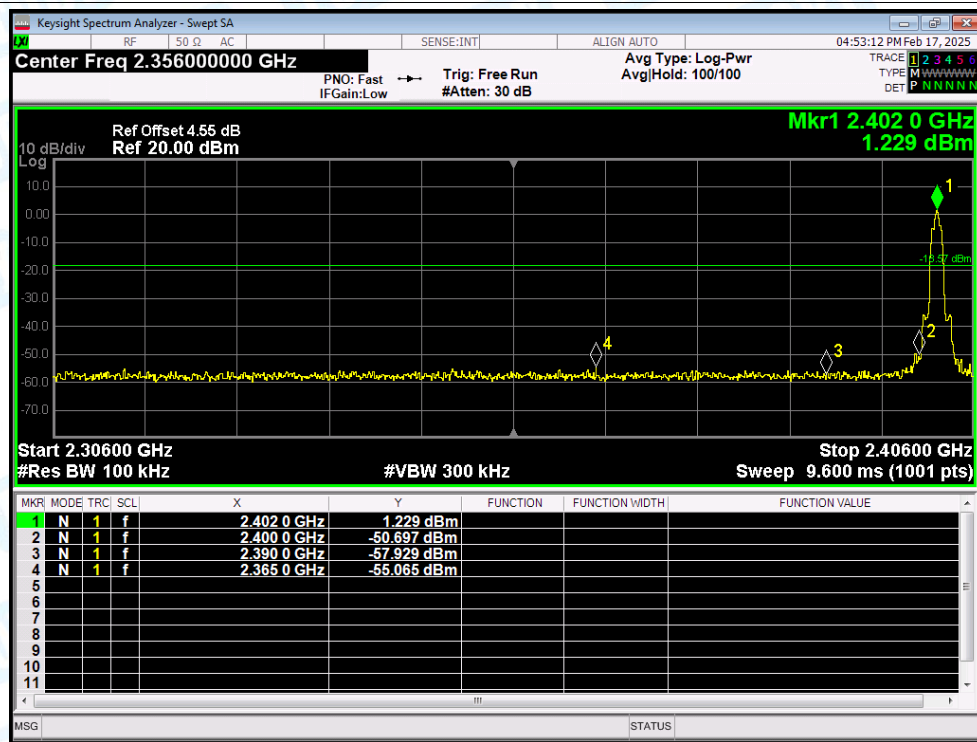
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



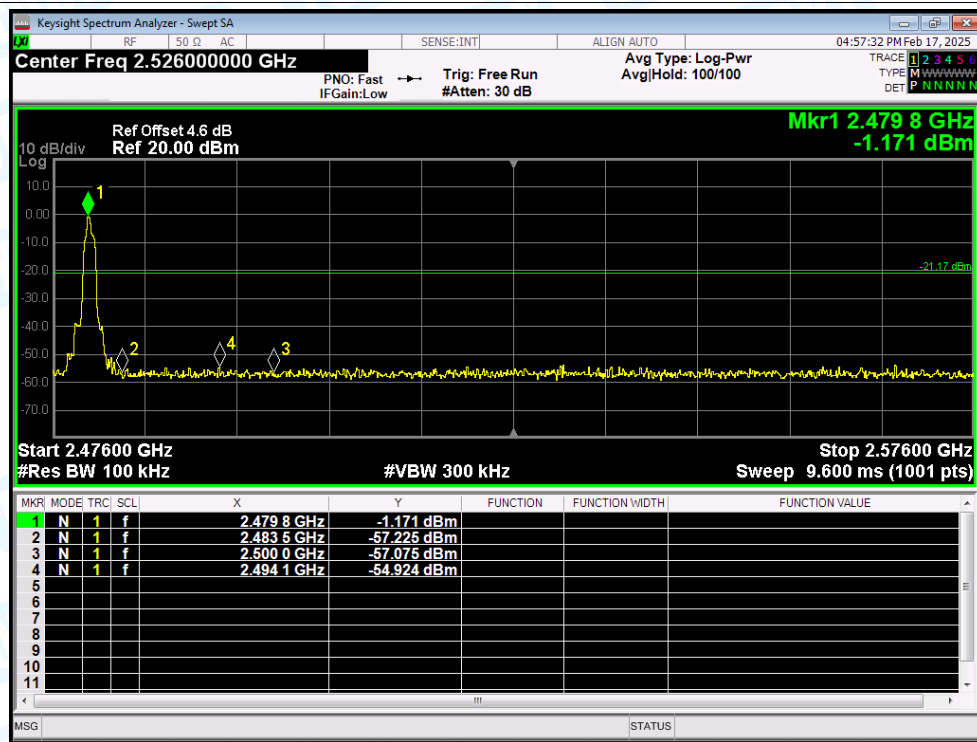
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

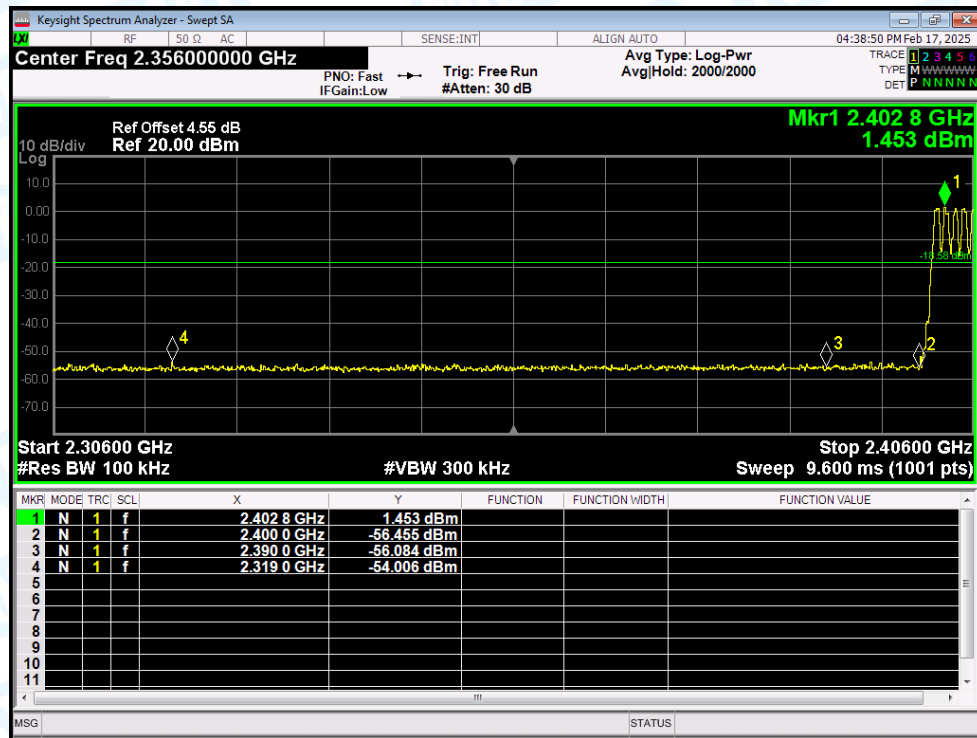
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-55.43	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-52.88	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-54.84	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.47	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-55.47	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-52.84	-20	Pass

Test Graphs

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



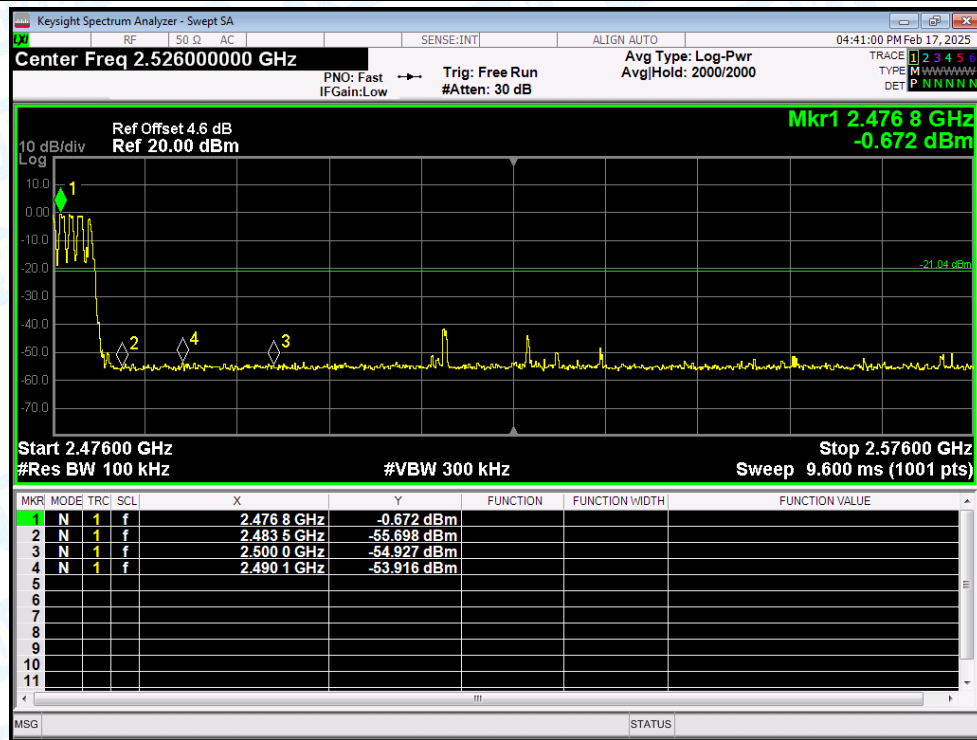
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



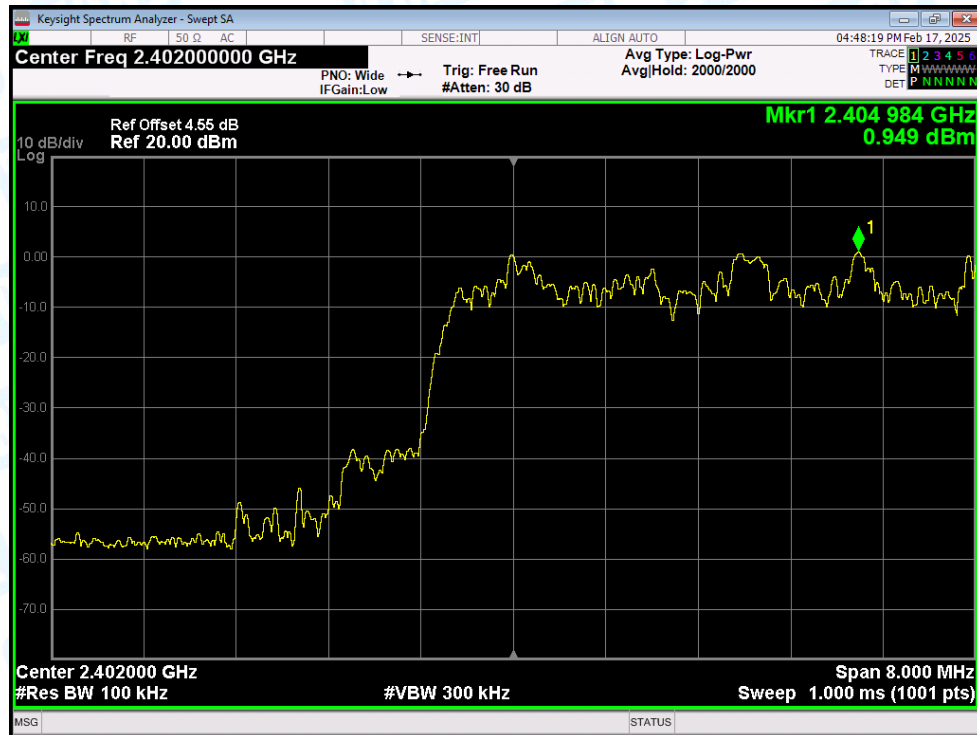
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



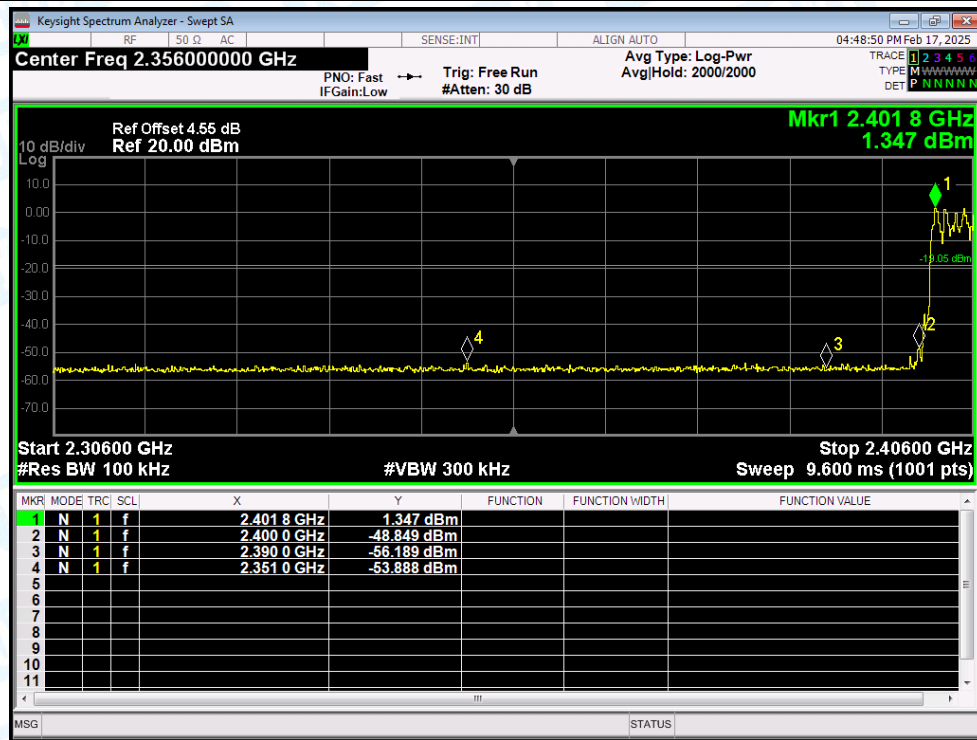
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



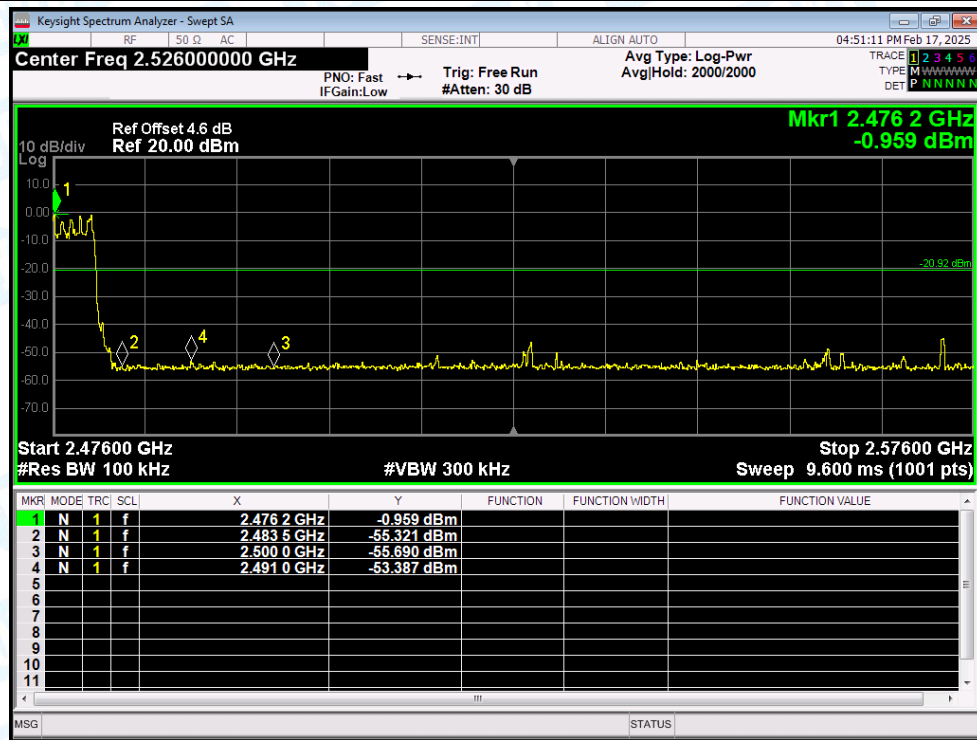
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



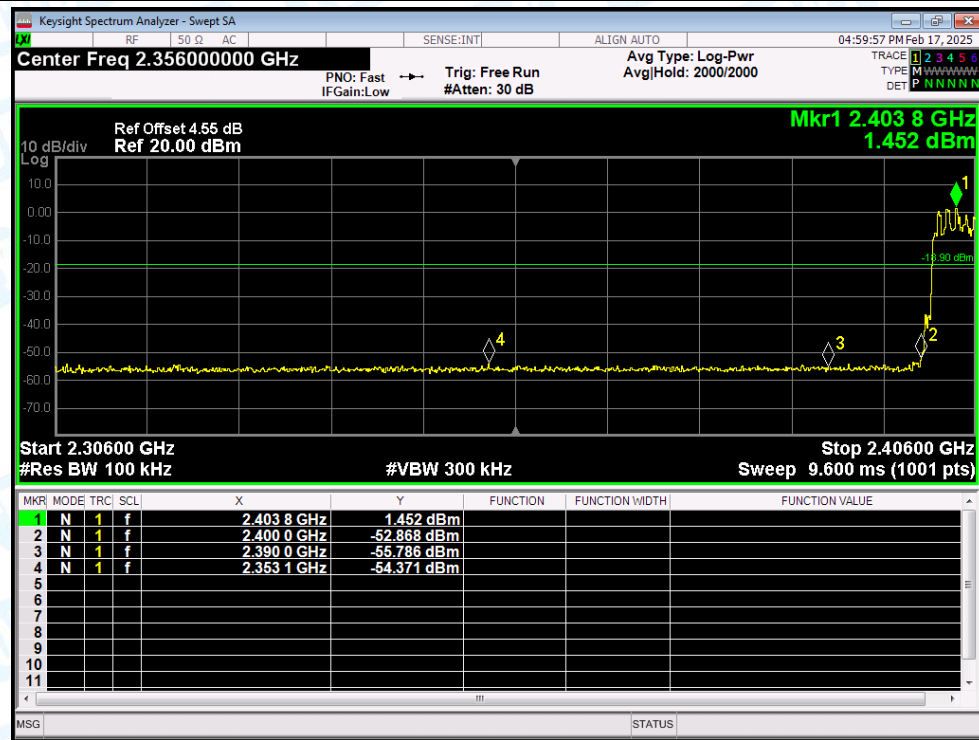
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



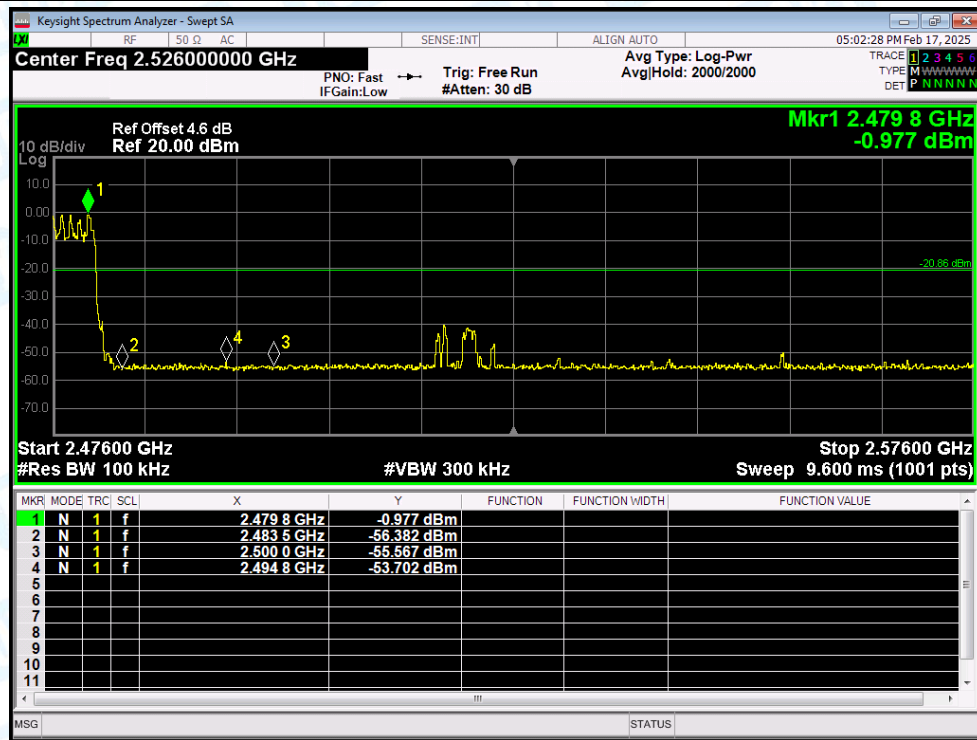
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

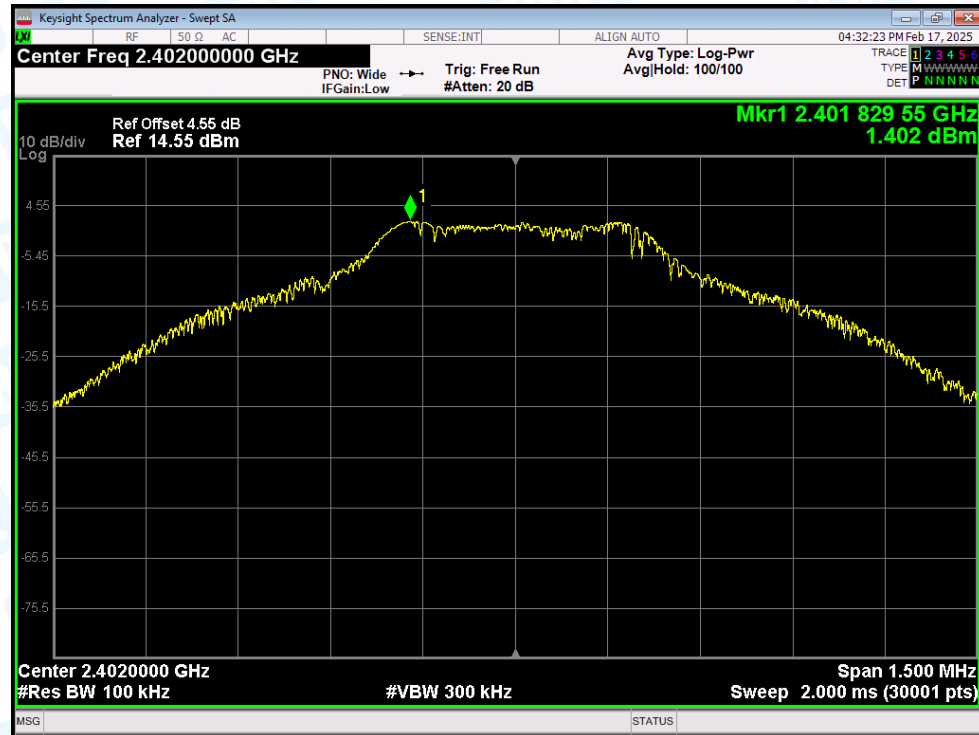


7. Conducted RF Spurious Emission

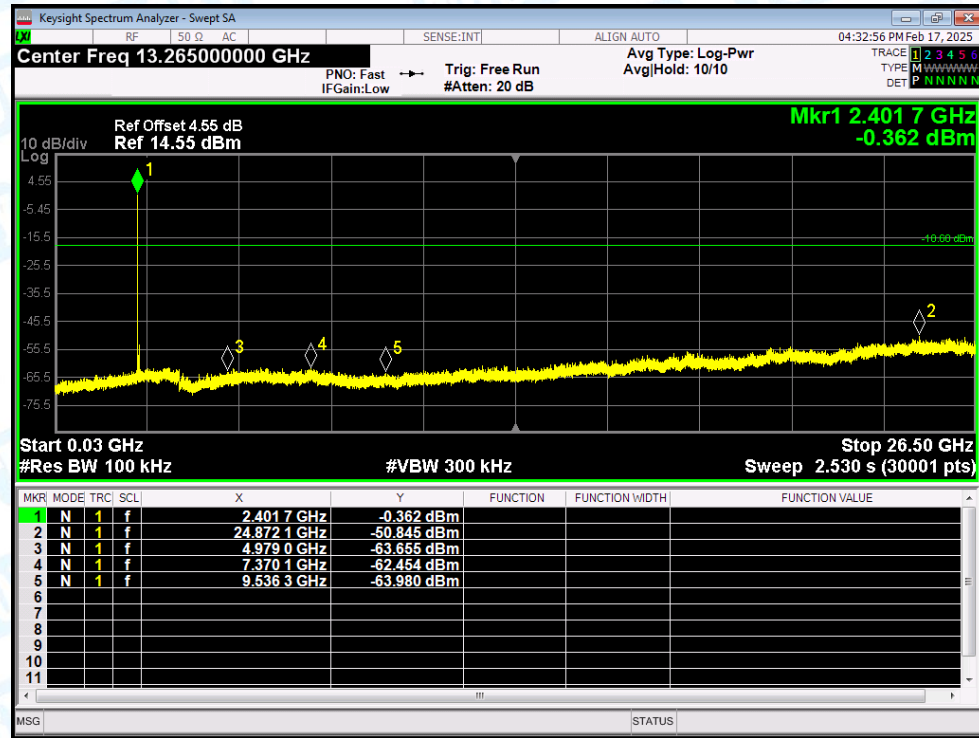
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-52.24	-20	Pass
NVNT	1-DH1	2441	Ant1	-52.03	-20	Pass
NVNT	1-DH1	2480	Ant1	-50.24	-20	Pass
NVNT	2-DH1	2402	Ant1	-53.1	-20	Pass
NVNT	2-DH1	2441	Ant1	-51.04	-20	Pass
NVNT	2-DH1	2480	Ant1	-50.71	-20	Pass
NVNT	3-DH1	2402	Ant1	-53.16	-20	Pass
NVNT	3-DH1	2441	Ant1	-52.15	-20	Pass
NVNT	3-DH1	2480	Ant1	-50.29	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



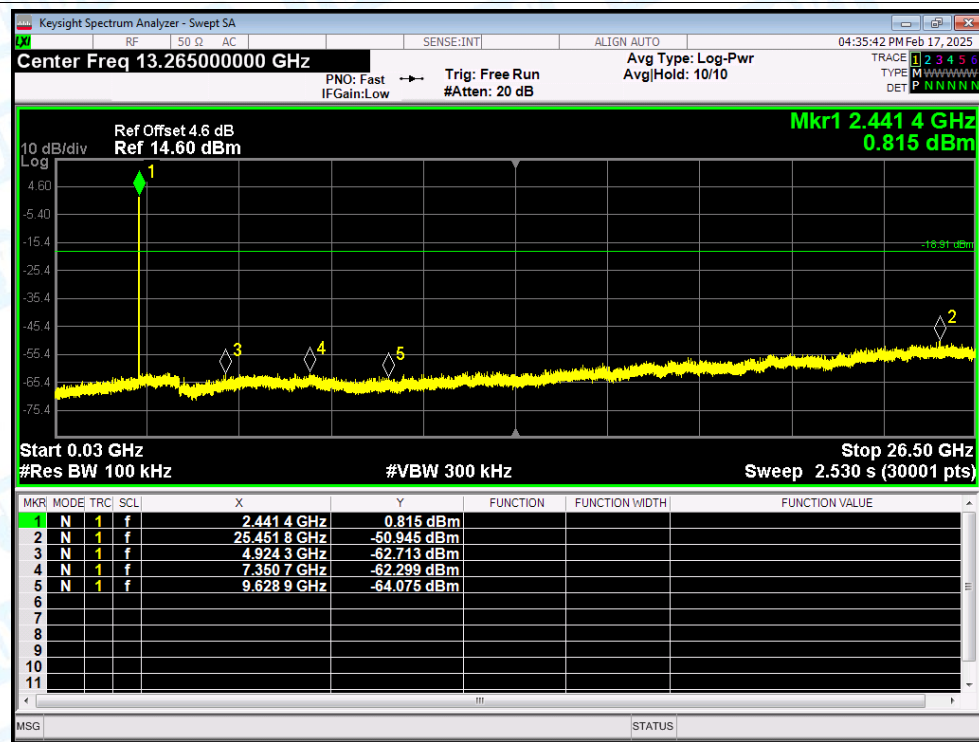
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



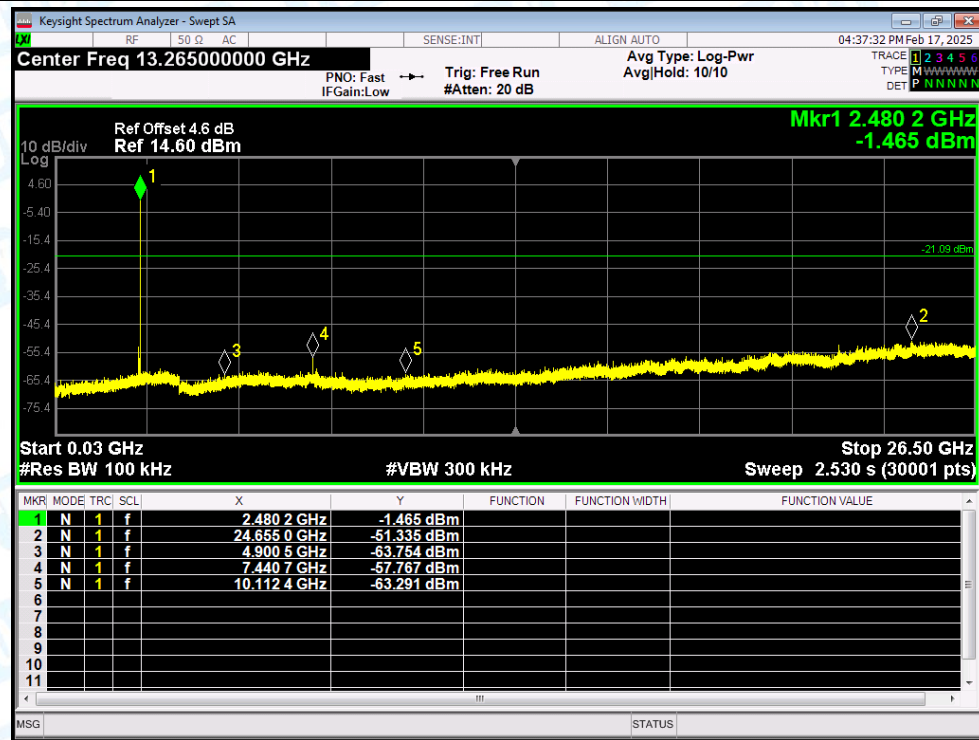
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



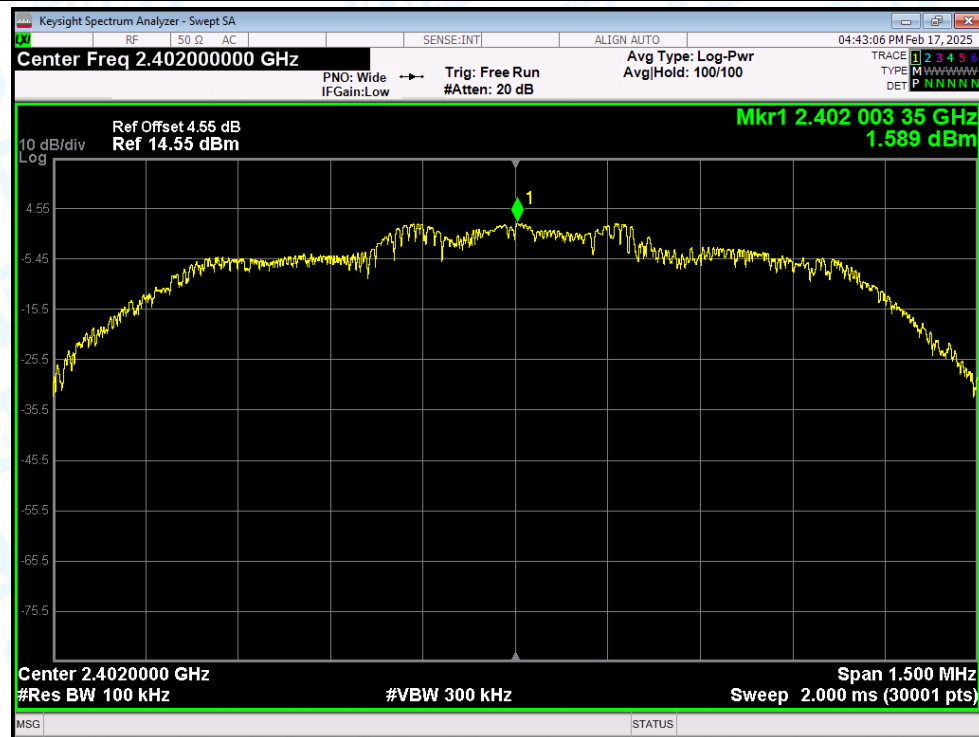
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



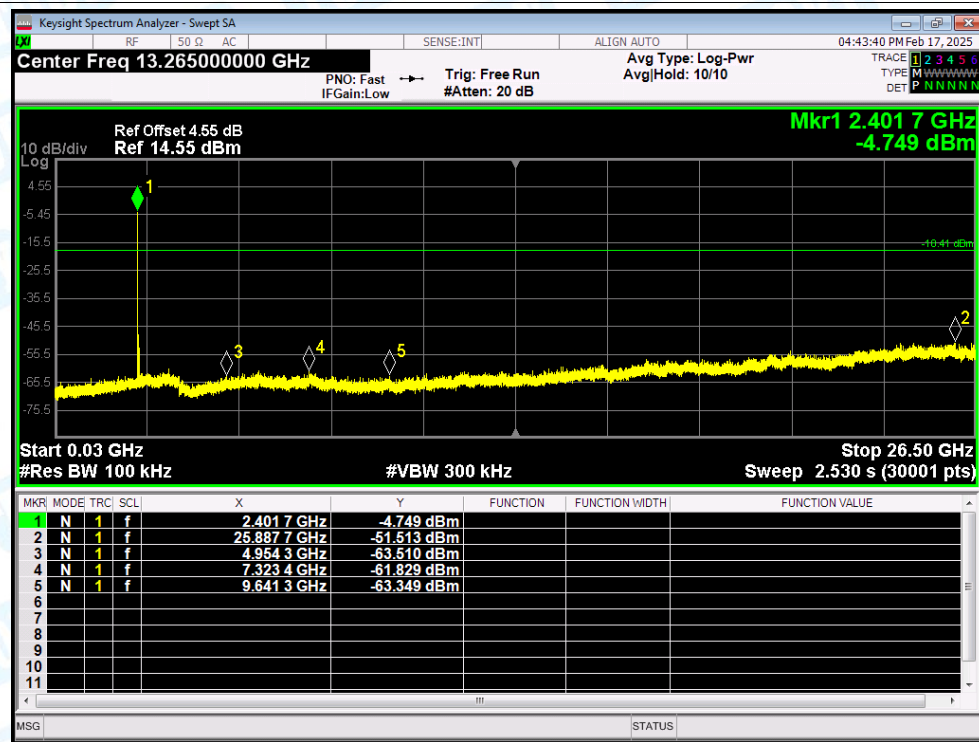
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



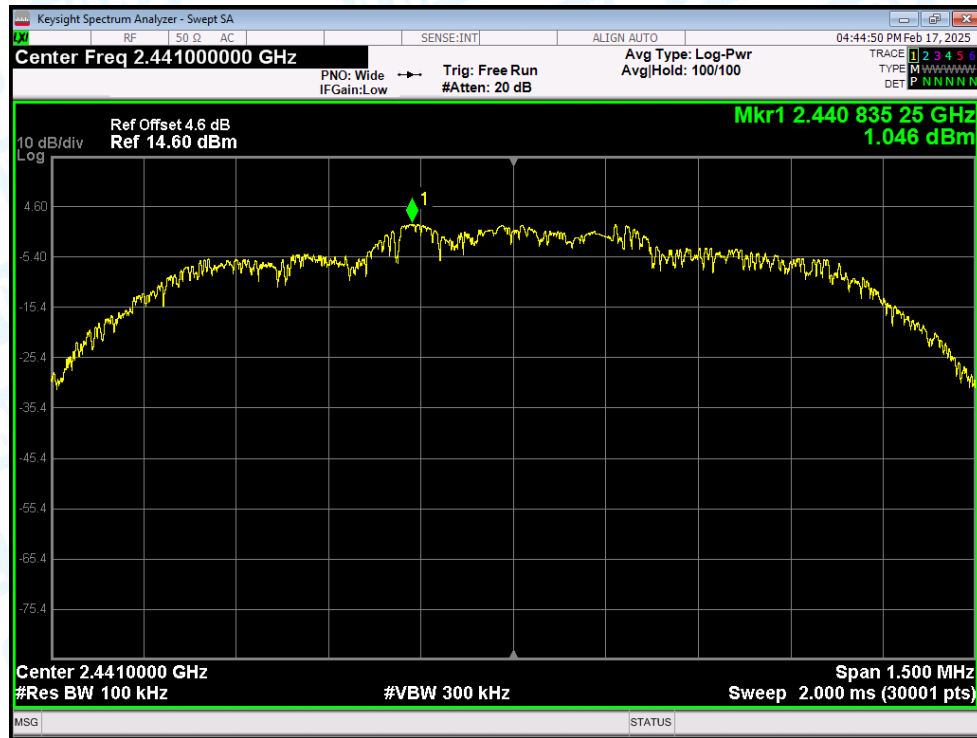
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



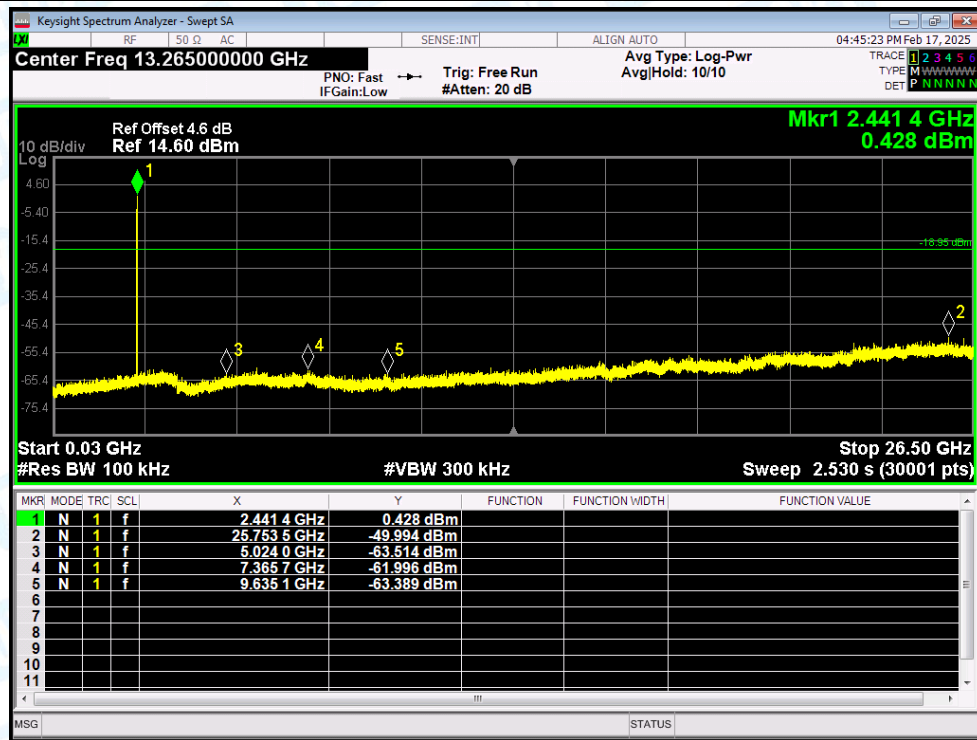
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



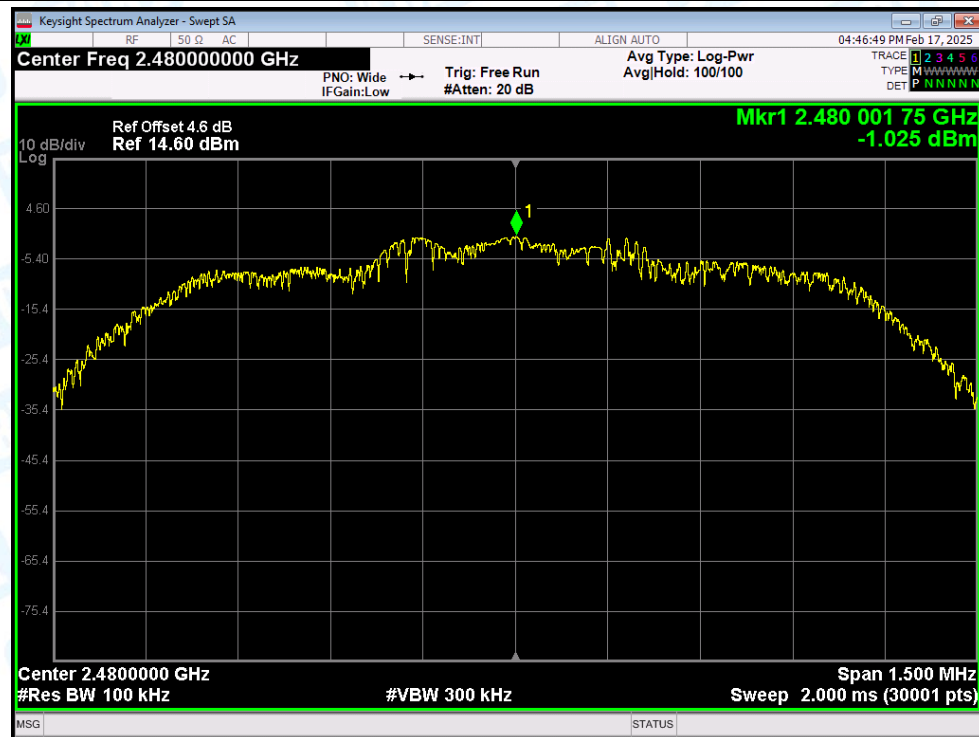
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



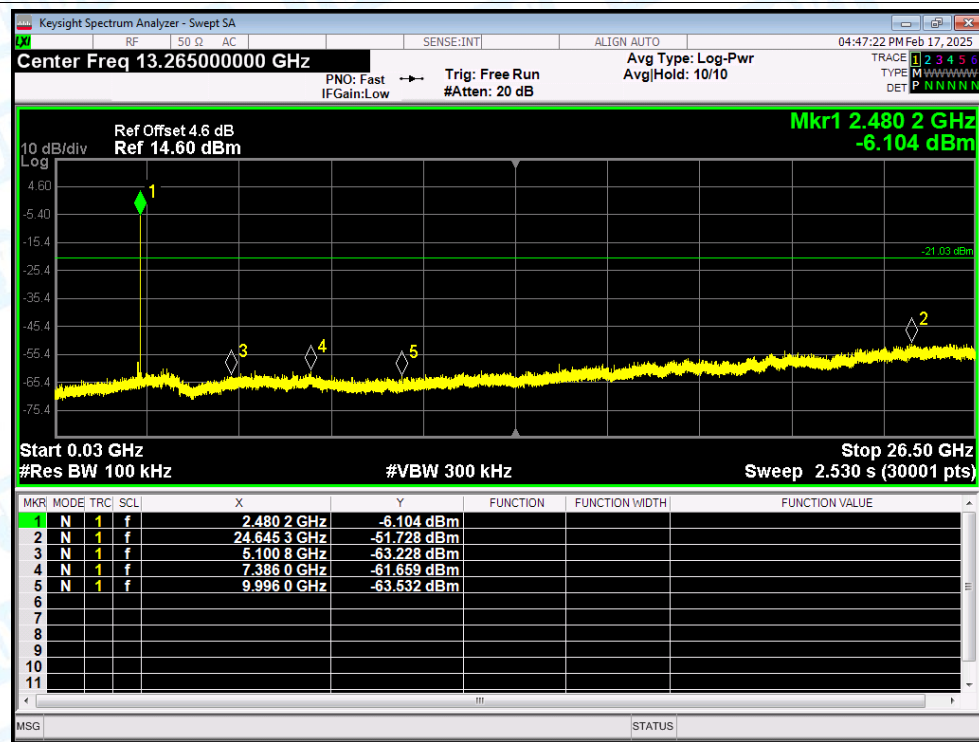
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



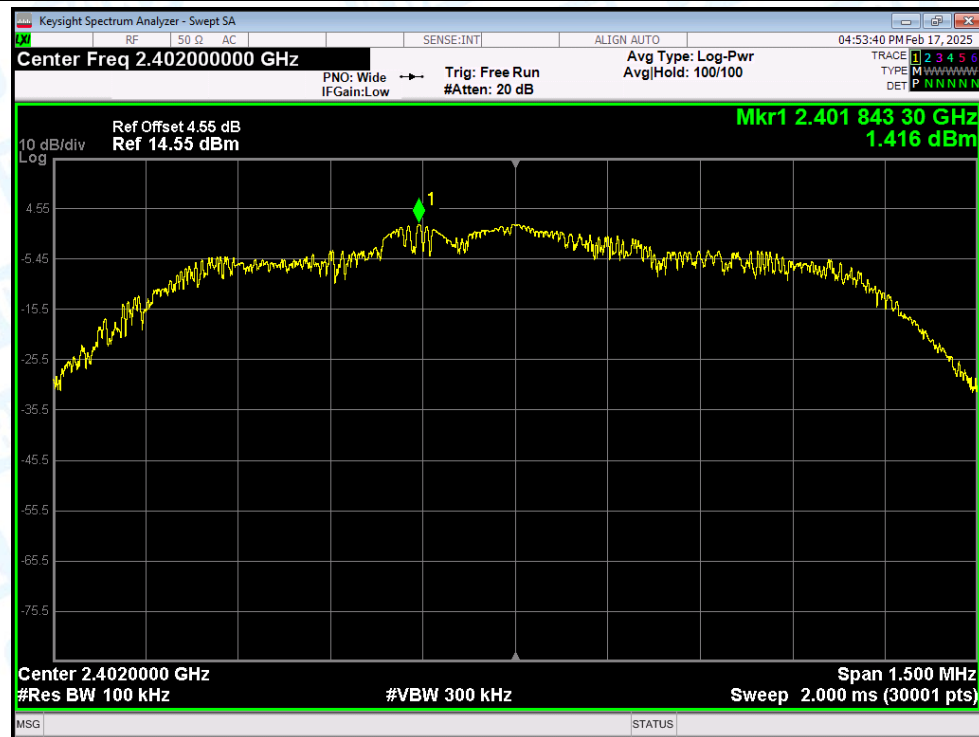
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



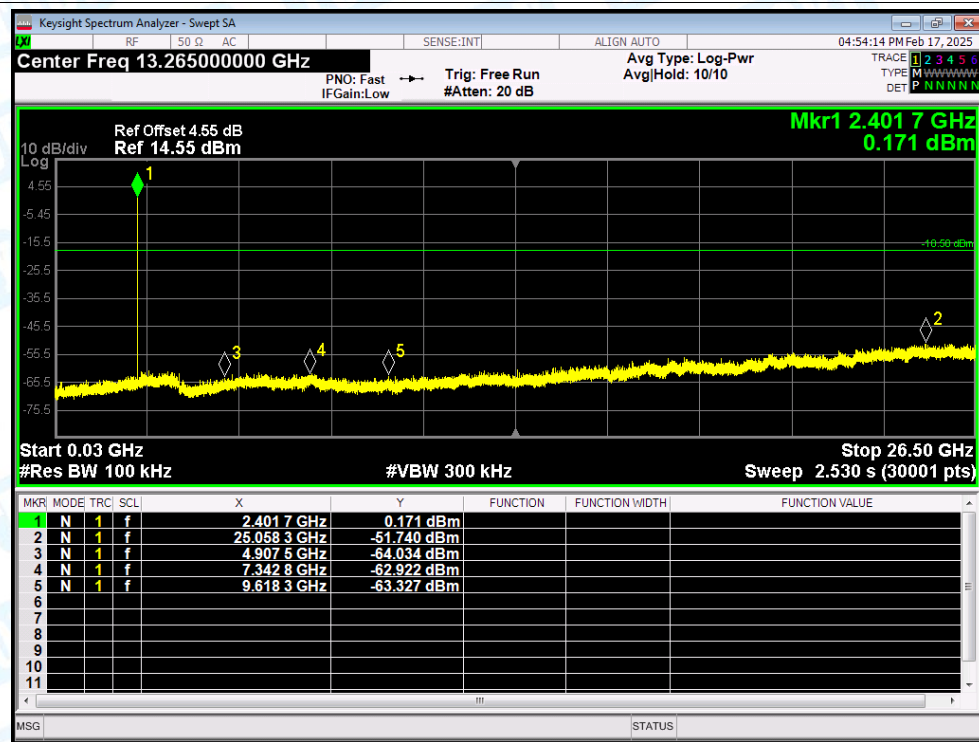
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



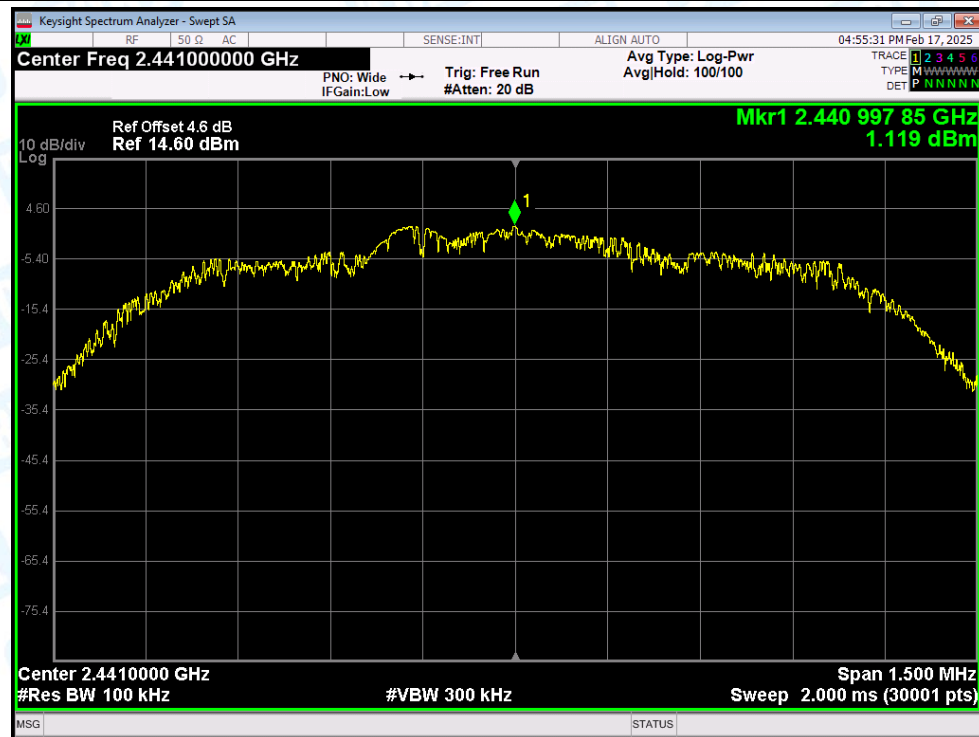
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



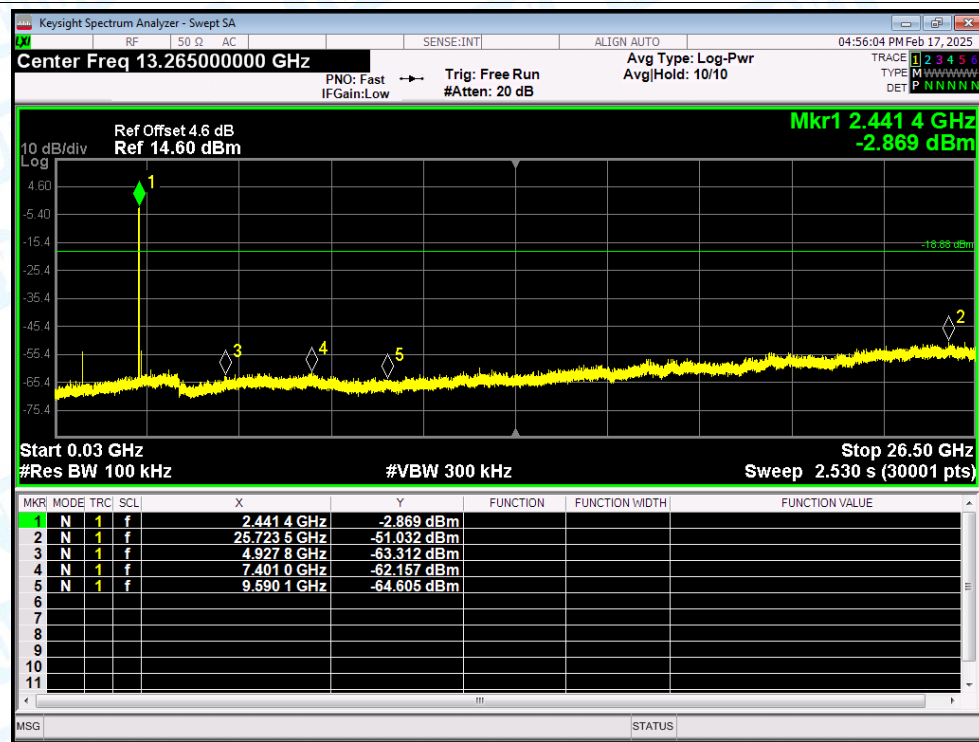
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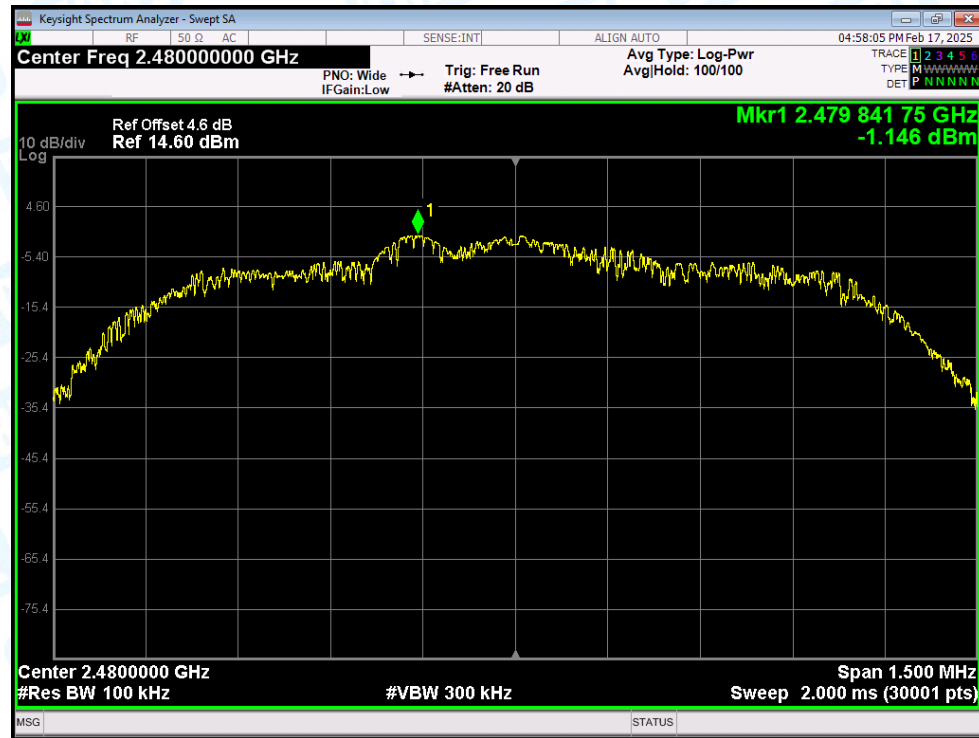
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



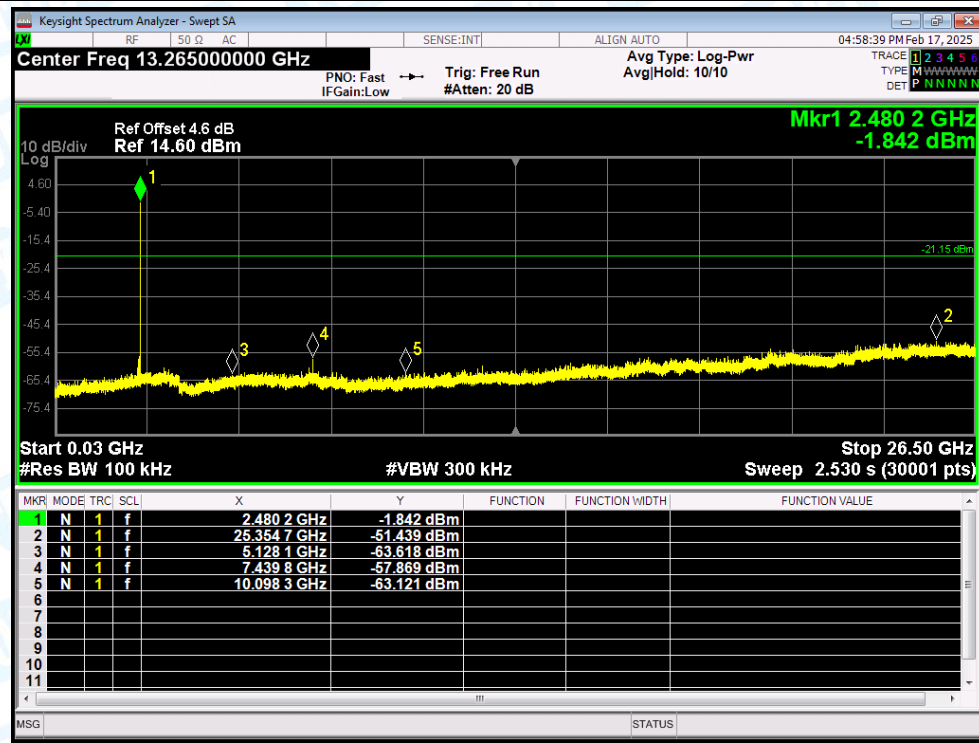
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

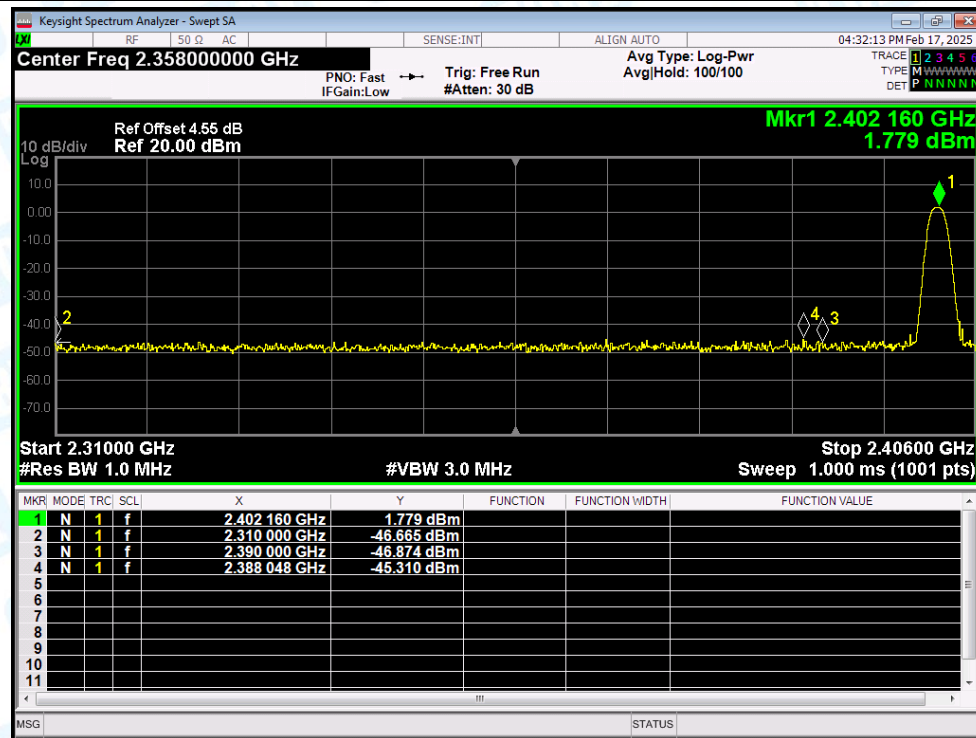


8. Restrict Band

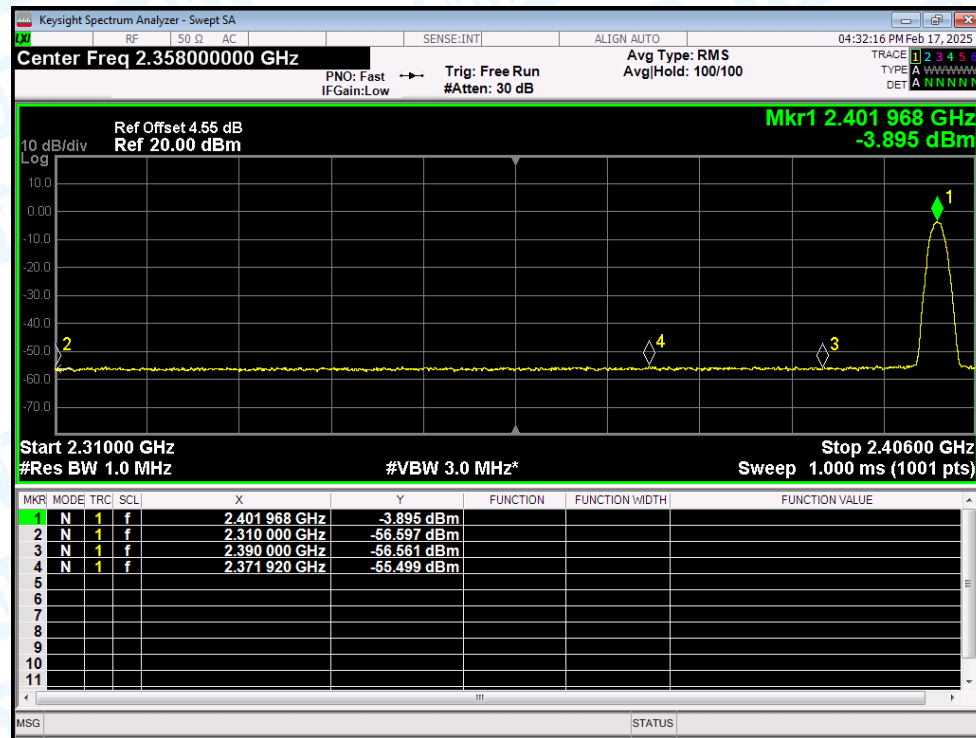
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-46.67	2	-	50.59	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.6	2	4.84	45.5	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2388.048	-45.31	2	-	51.95	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2371.92	-55.5	2	4.84	46.6	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.87	2	-	50.39	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.56	2	4.84	45.54	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.81	2	-	51.45	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-56.09	2	4.84	46.01	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2493.592	-44.6	2	-	52.66	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2492.272	-54.87	2	4.84	47.23	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.33	2	-	49.93	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.72	2	4.84	46.38	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49.72	2	-	47.54	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.66	2	4.84	45.44	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2349.744	-45.28	2	-	51.98	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2348.4	-55.27	2	4.84	46.83	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-46.15	2	-	51.11	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.89	2	4.84	46.21	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-48.23	2	-	49.03	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.74	2	4.84	46.36	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.872	-40.24	2	-	57.02	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.656	-54.63	2	4.84	47.47	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.58	2	-	49.68	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.85	2	4.84	46.25	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.48	2	-	48.78	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.72	2	4.74	45.28	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2374.416	-45.51	2	-	51.75	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2364.528	-55.3	2	4.74	46.7	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-46.75	2	-	50.51	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.47	2	4.74	45.53	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-48.32	2	-	48.94	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.63	2	4.84	46.47	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.56	-43.74	2	-	53.52	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2493.784	-54.88	2	4.84	47.22	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.44	2	-	49.82	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.83	2	4.84	46.27	Average	54	Pass

Test Graphs

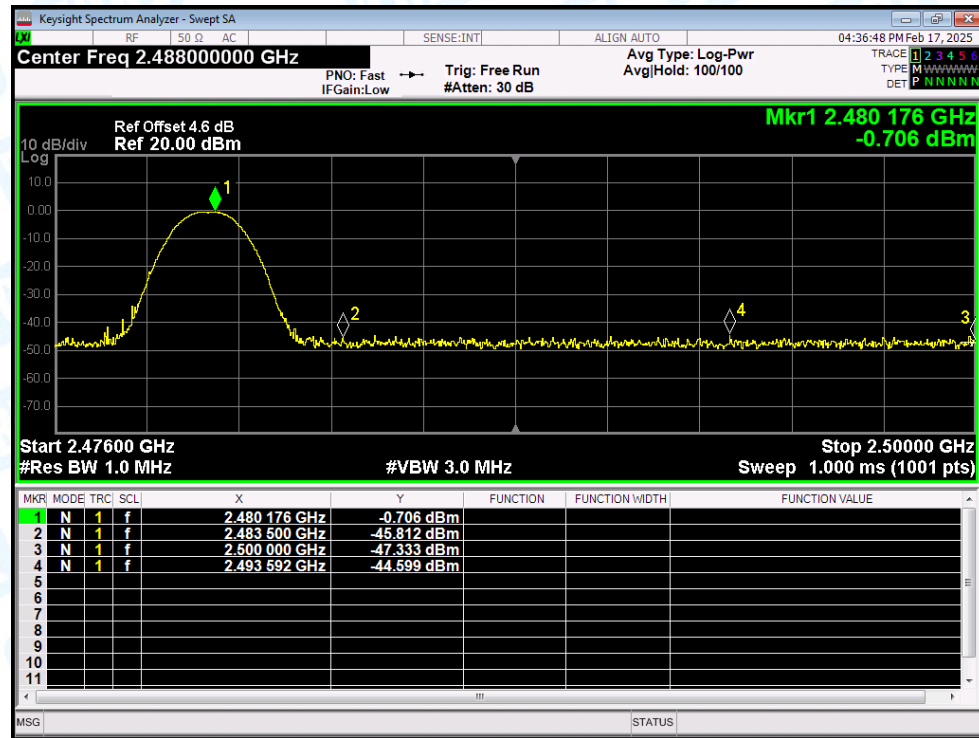
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



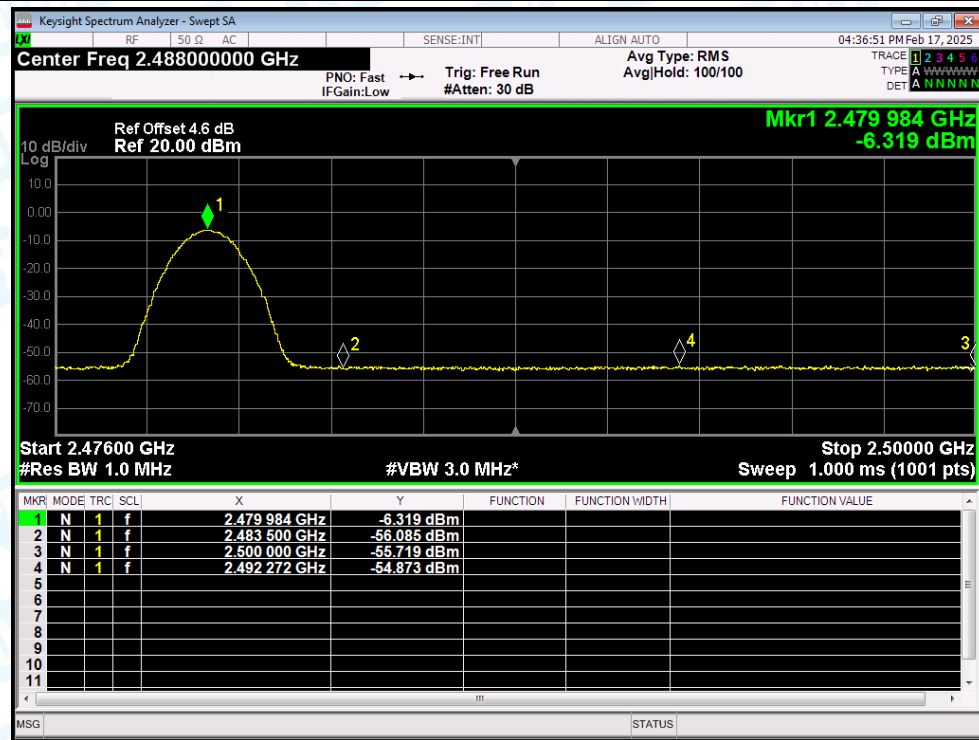
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



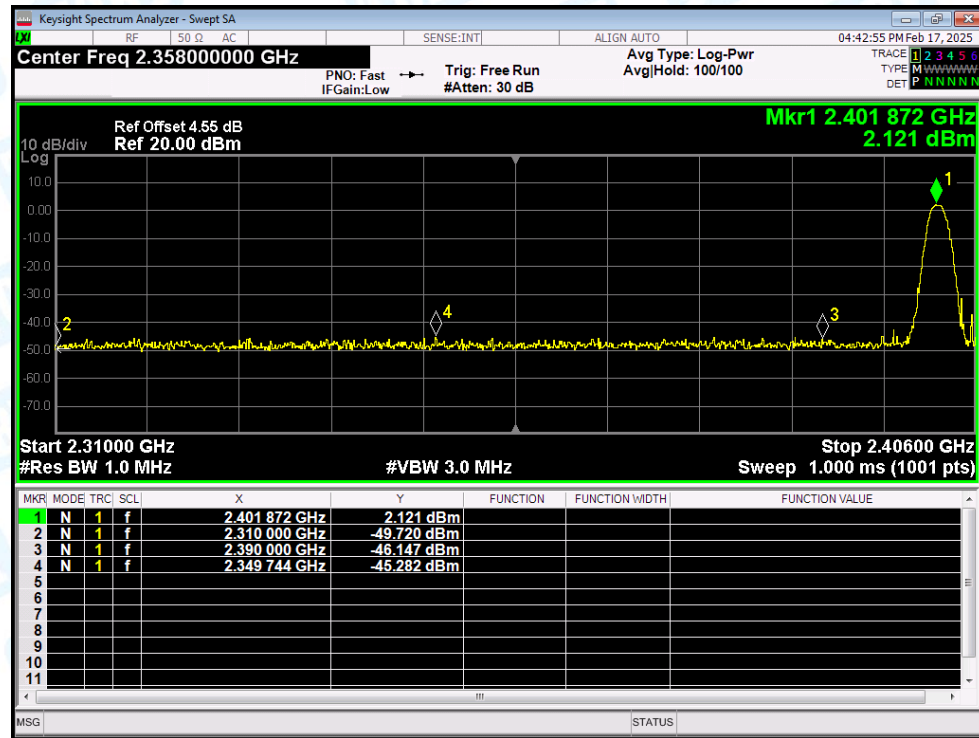
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



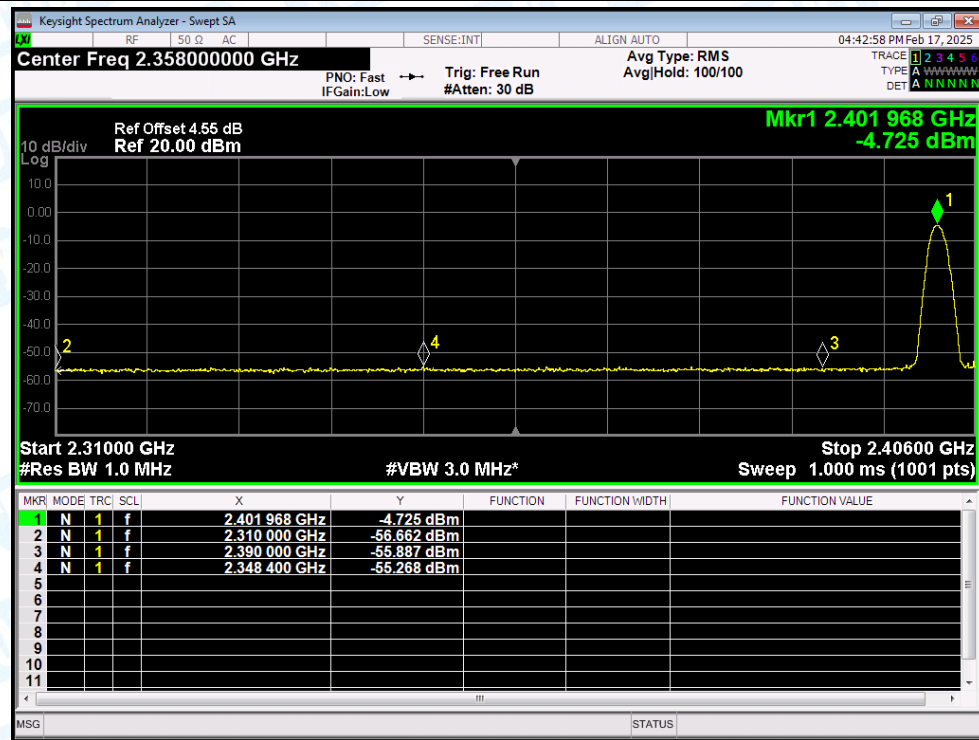
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



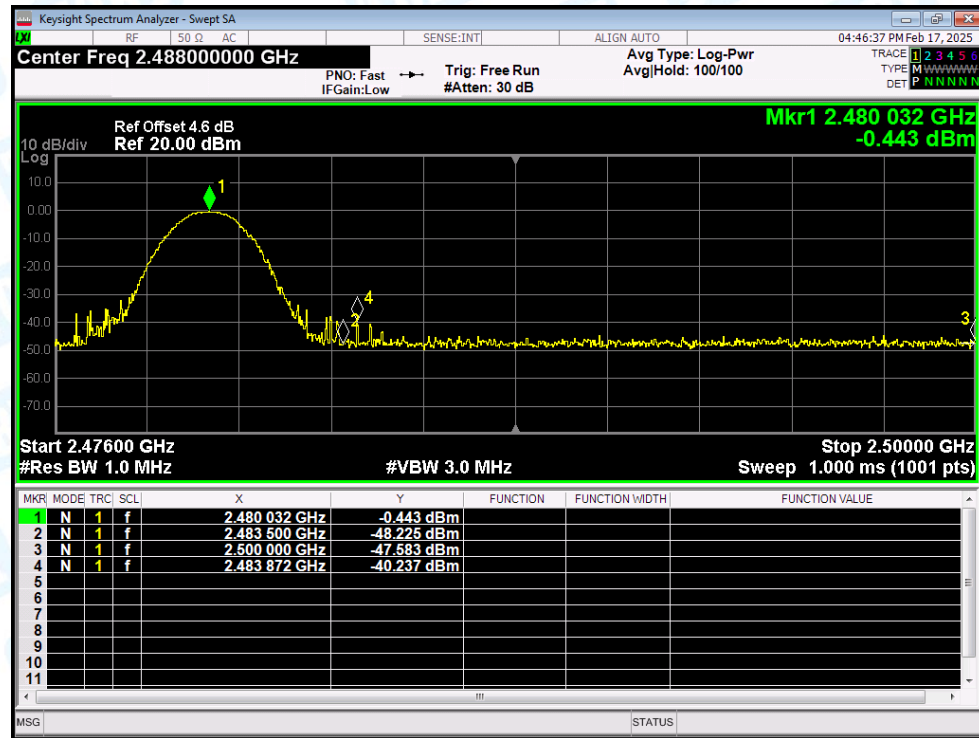
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



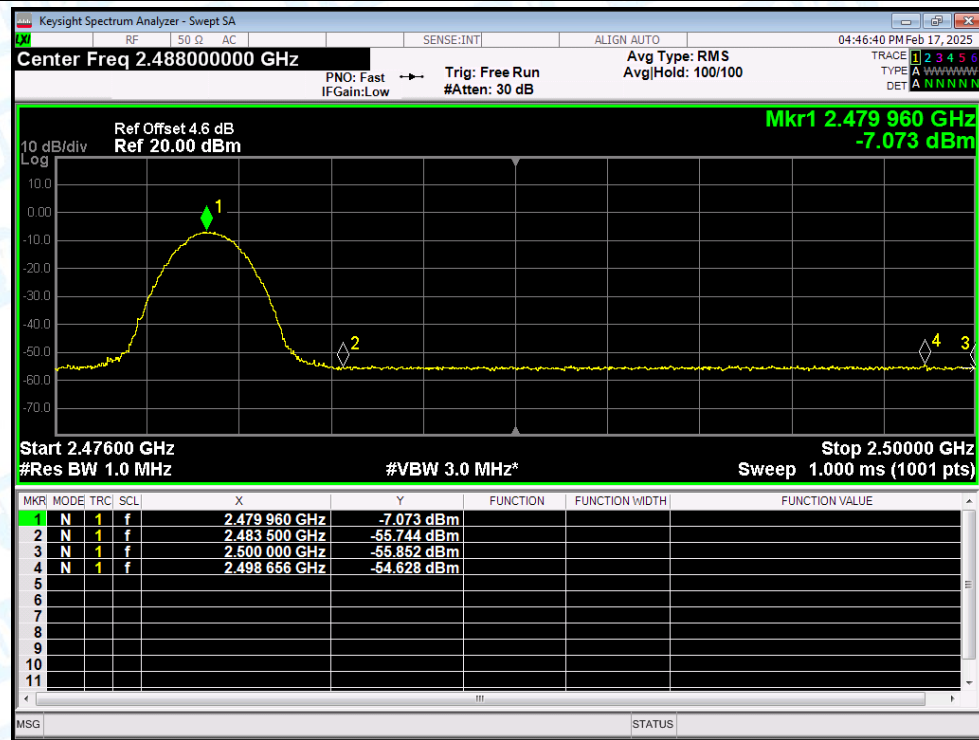
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



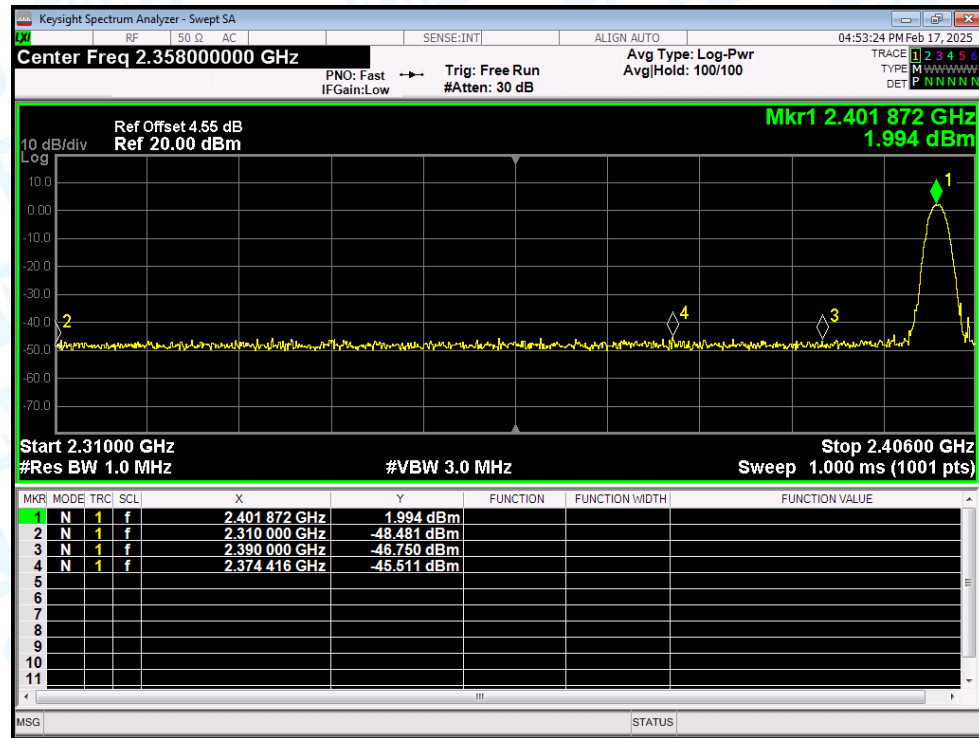
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



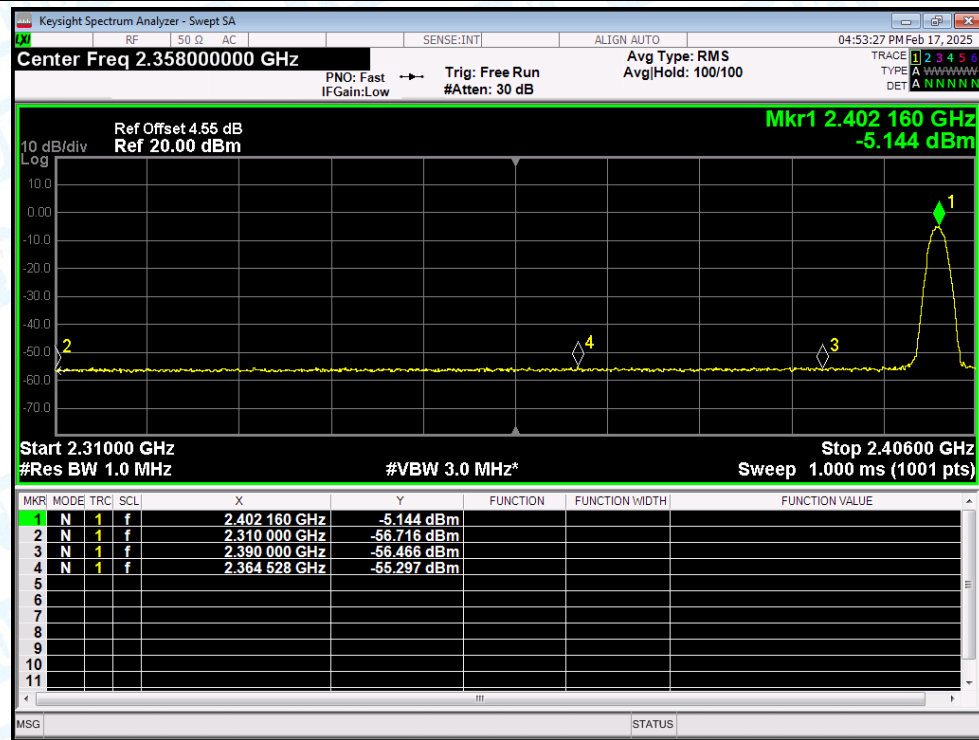
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



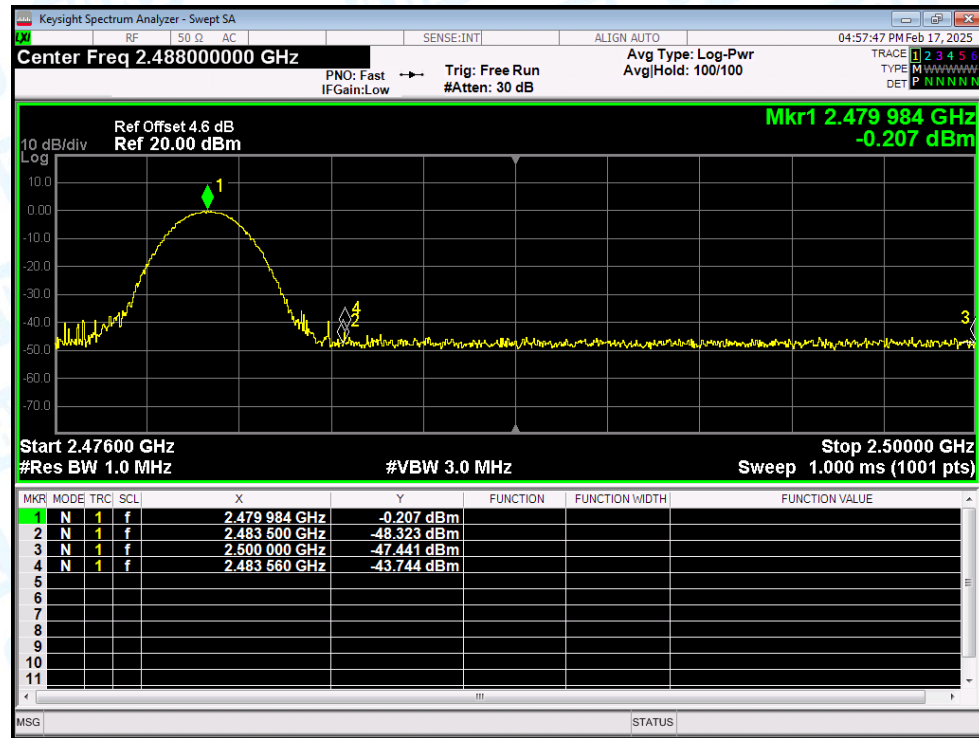
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



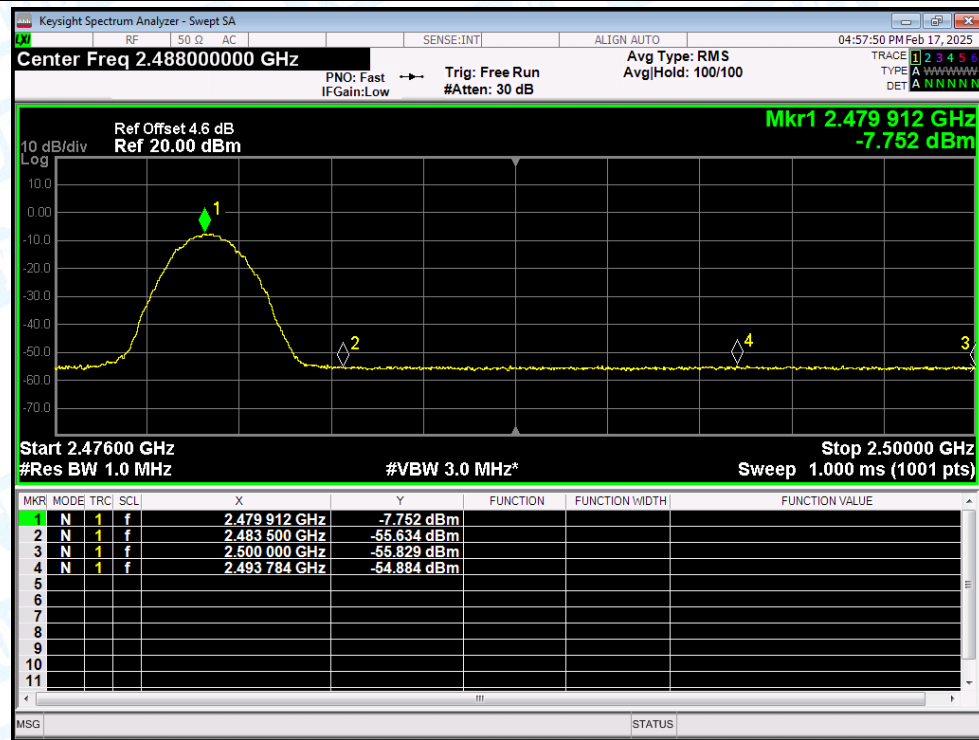
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

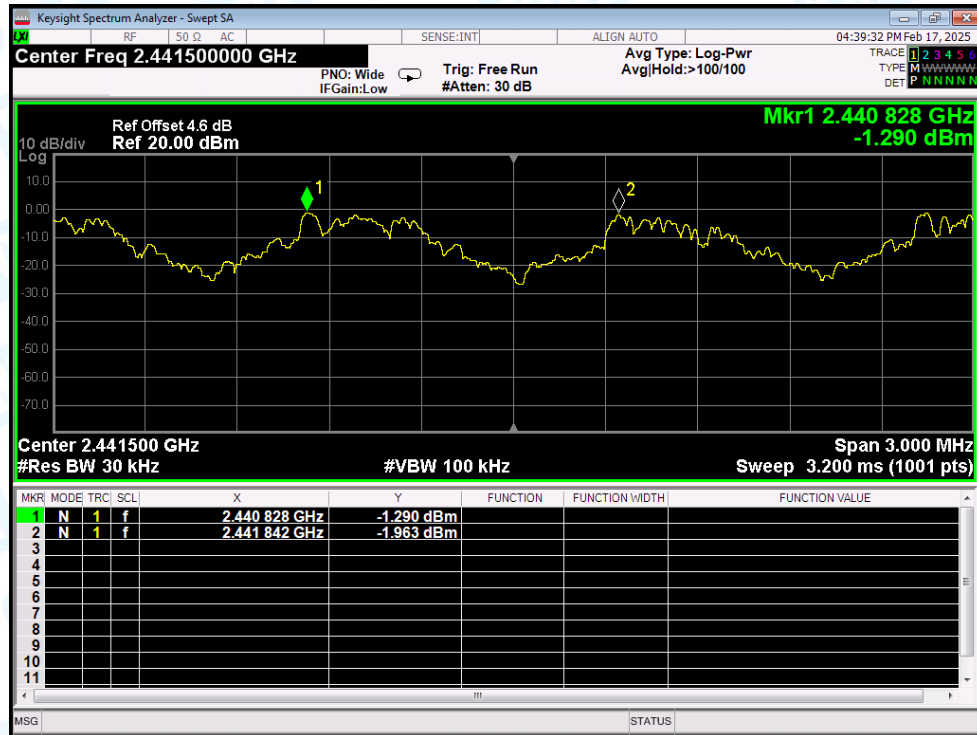


9. Carrier Frequencies Separation

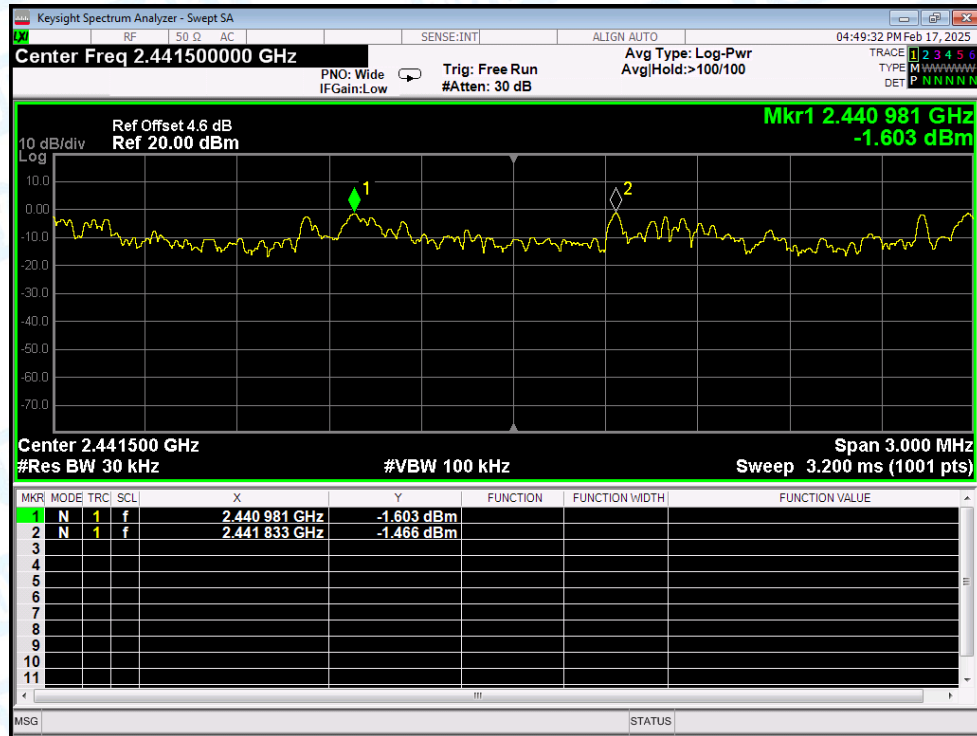
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.828	2441.842	1.014	0.62	Pass
NVNT	2-DH1	Ant1	2440.981	2441.833	0.852	0.833	Pass
NVNT	3-DH1	Ant1	2440.834	2441.839	1.005	0.8	Pass

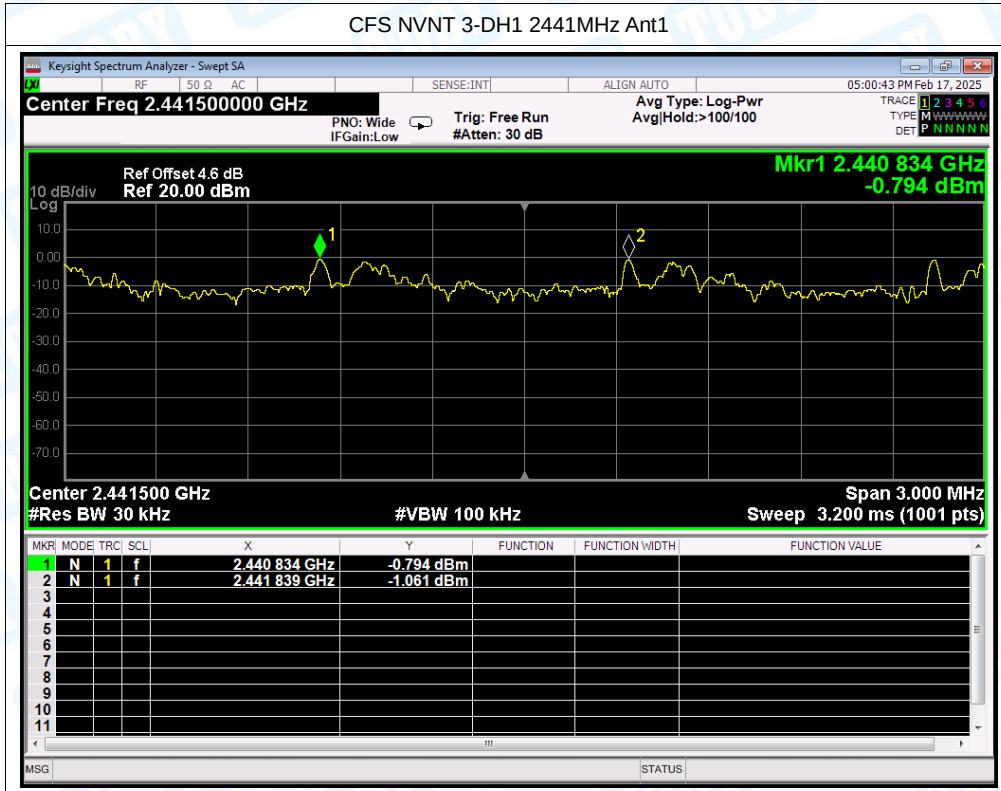
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



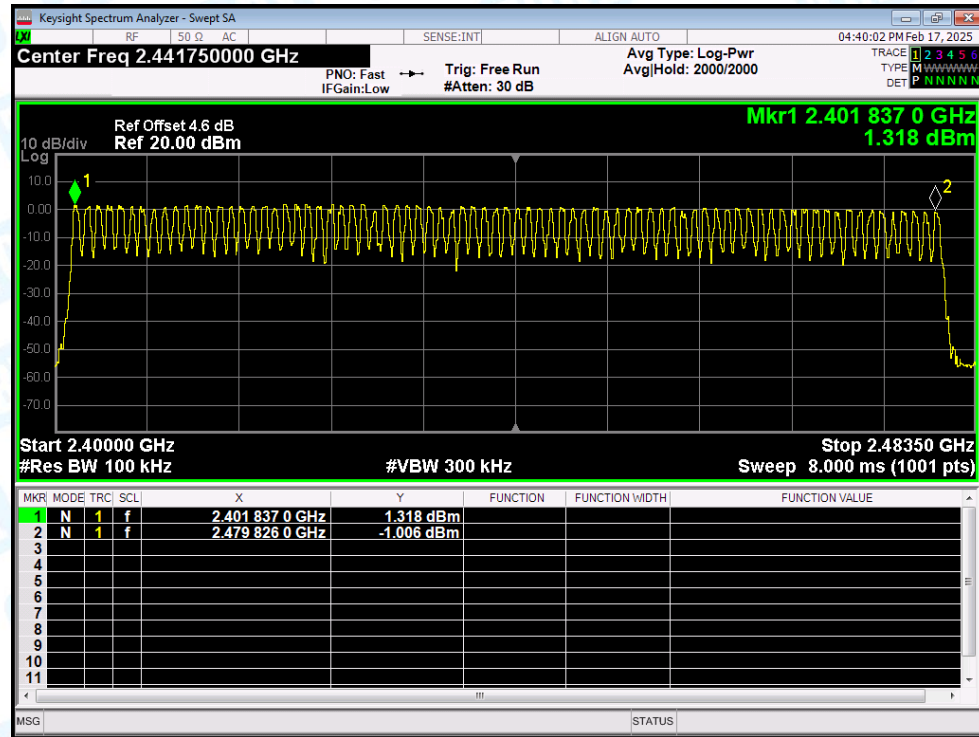


10. Number of Hopping Channel

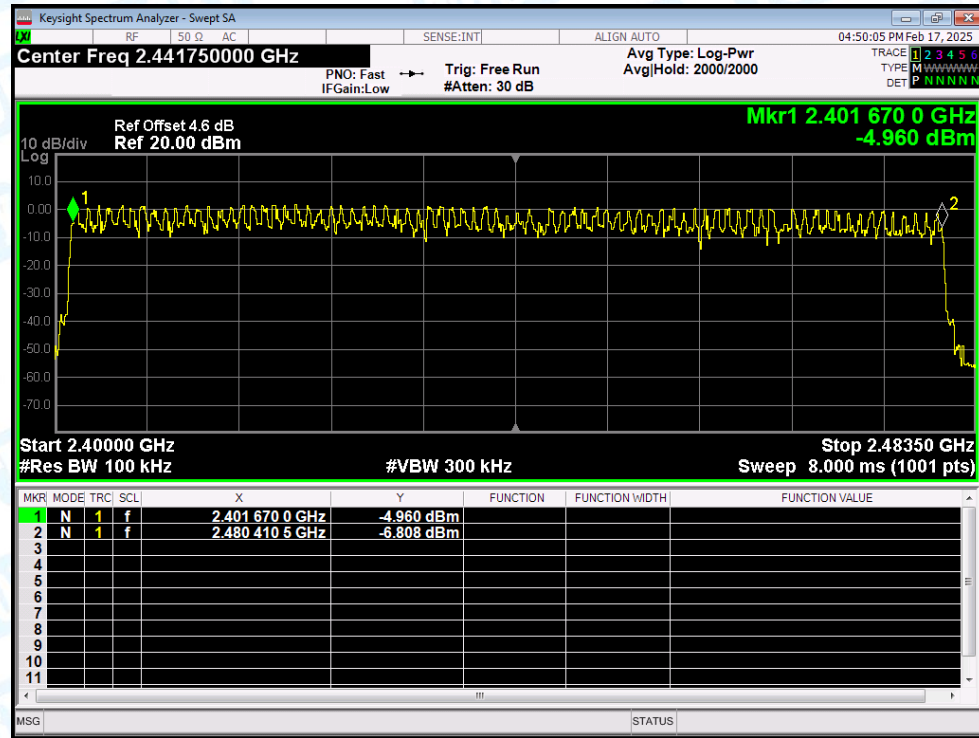
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

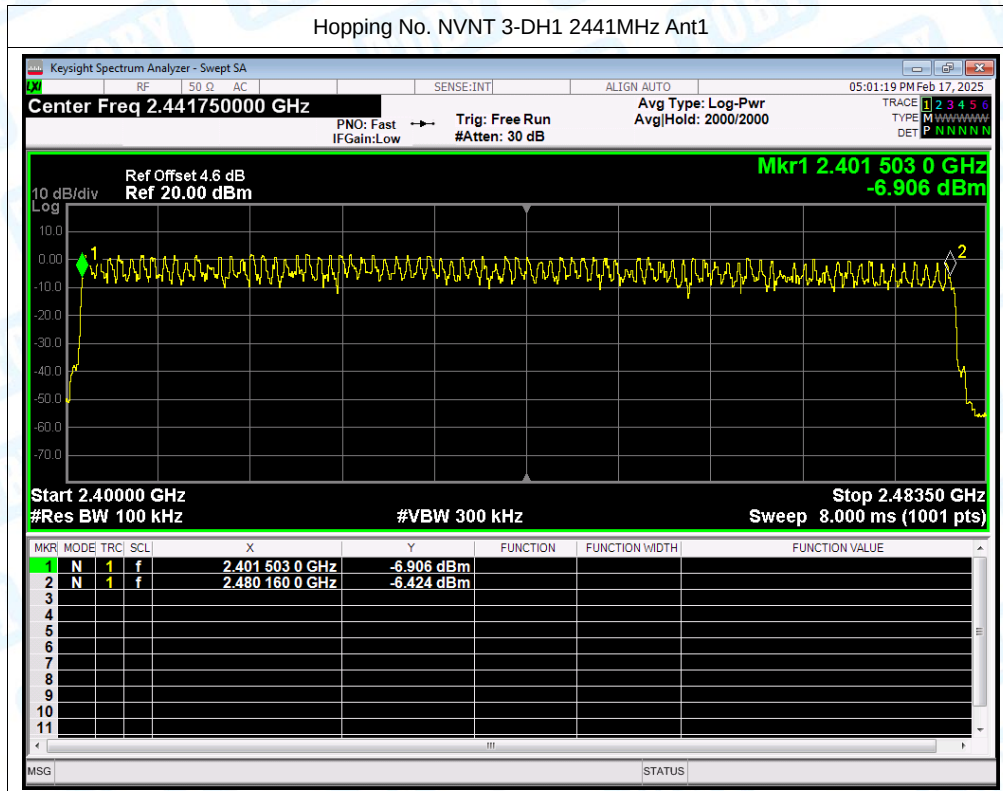
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



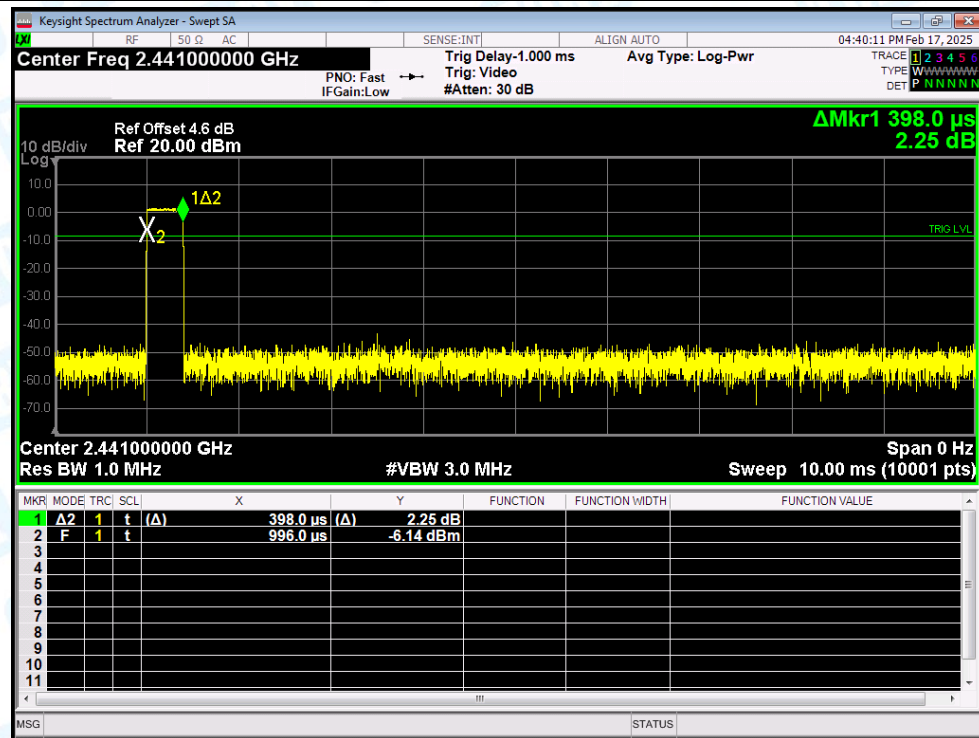


11. Dwell Time

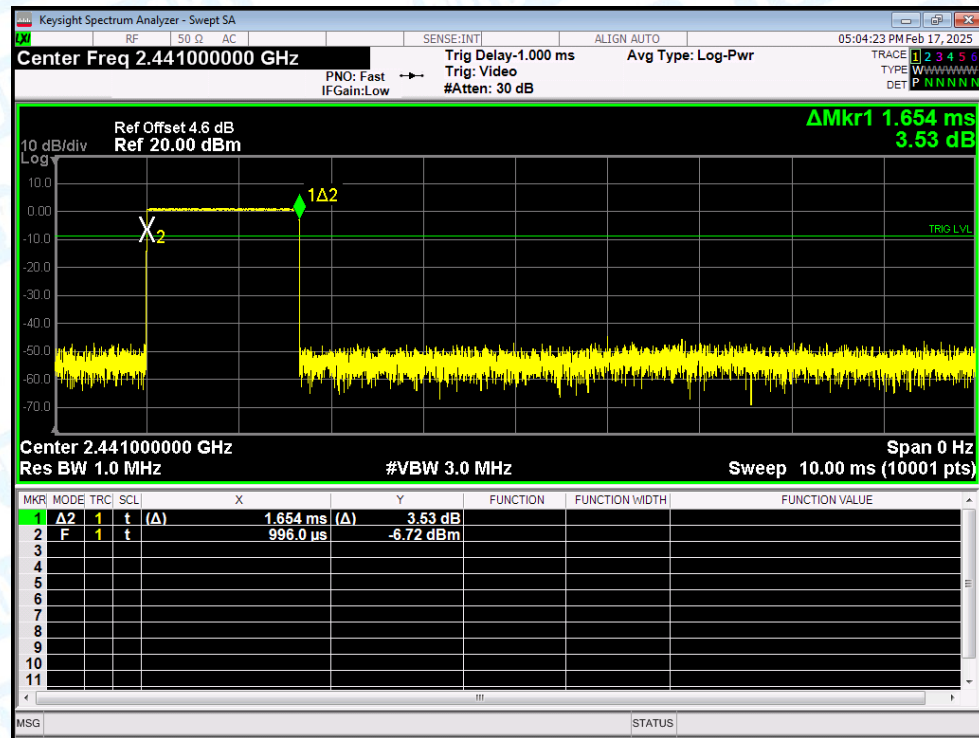
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.398	127.36	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.654	264.64	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.902	309.547	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.408	130.56	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.66	265.6	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.908	310.187	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.41	131.2	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.66	265.6	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.911	310.507	31600	400	Pass

Test Graphs

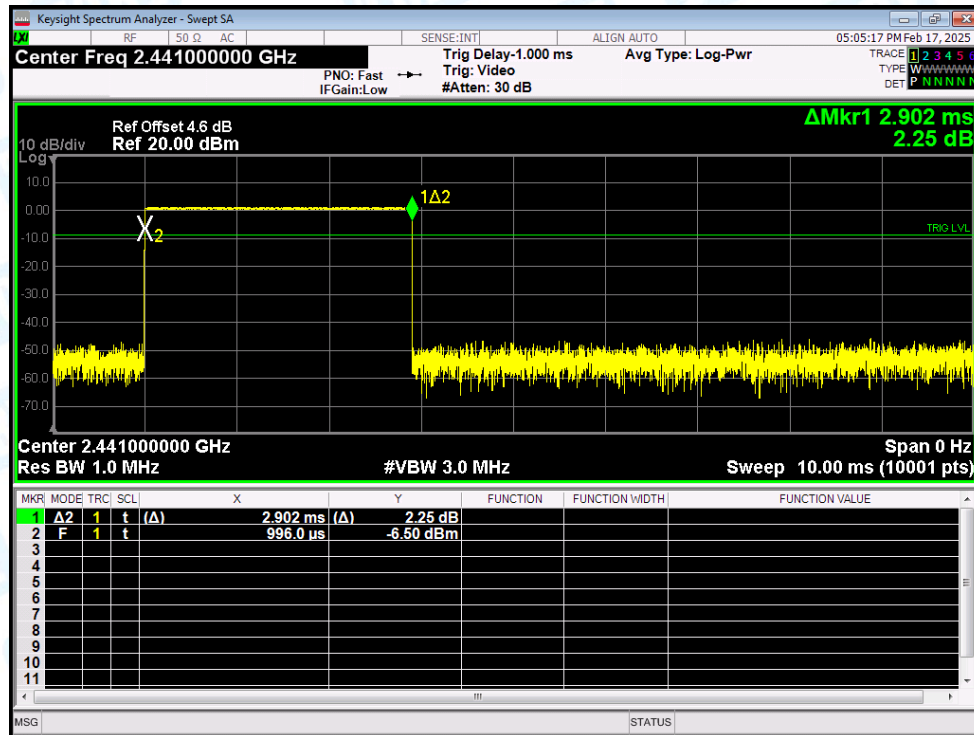
Dwell NVNT 1-DH1 2441MHz Ant1



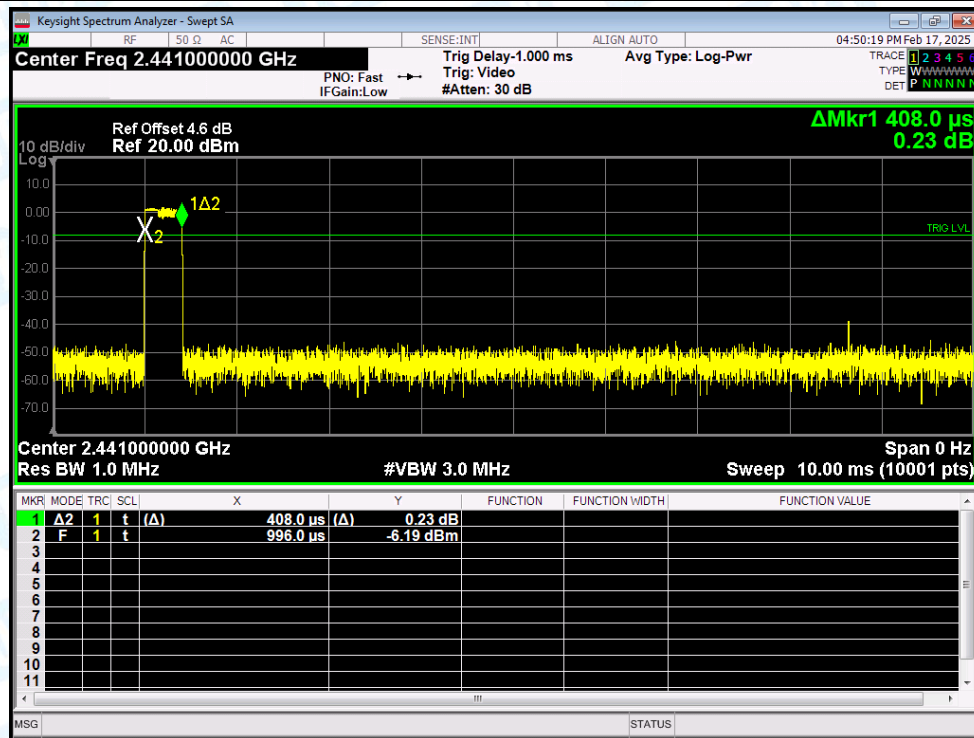
Dwell NVNT 1-DH3 2441MHz Ant1



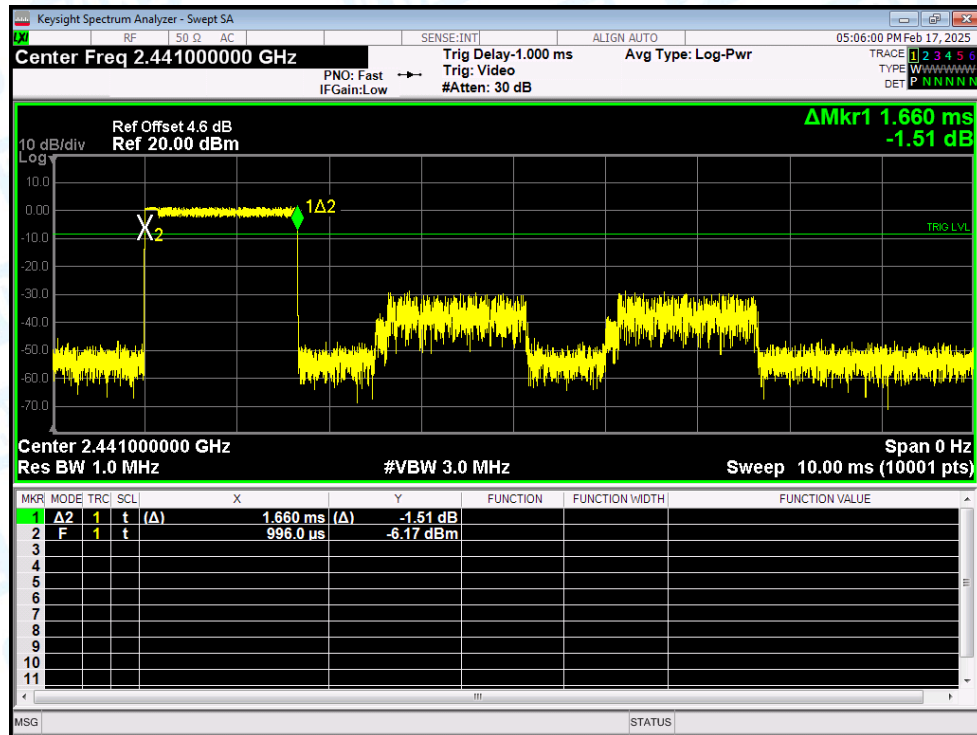
Dwell NVNT 1-DH5 2441MHz Ant1



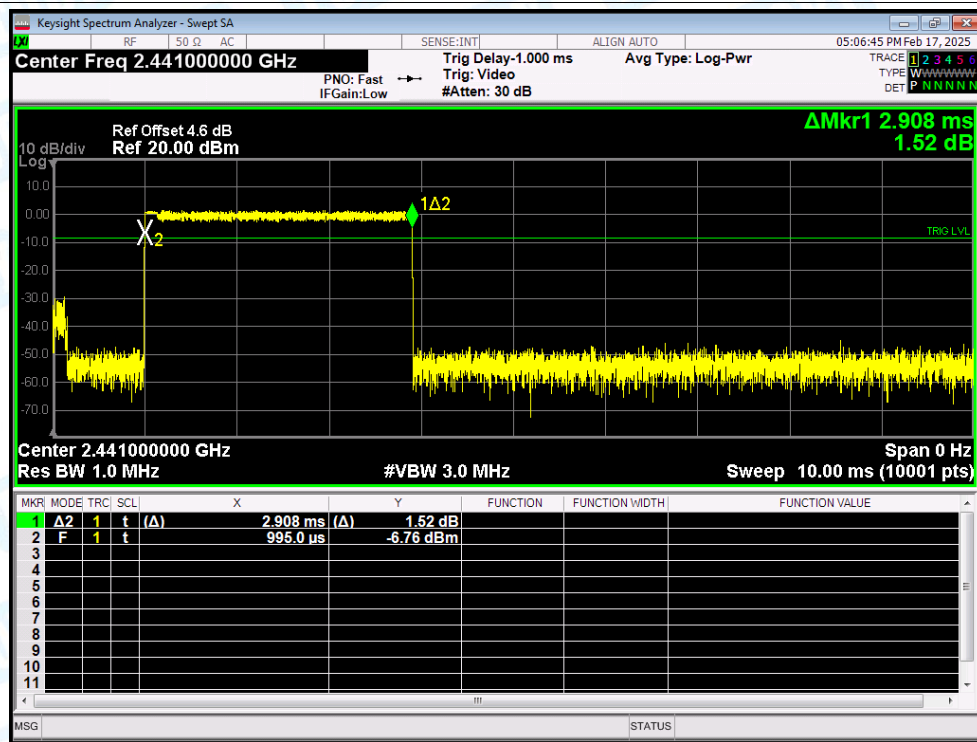
Dwell NVNT 2-DH1 2441MHz Ant1



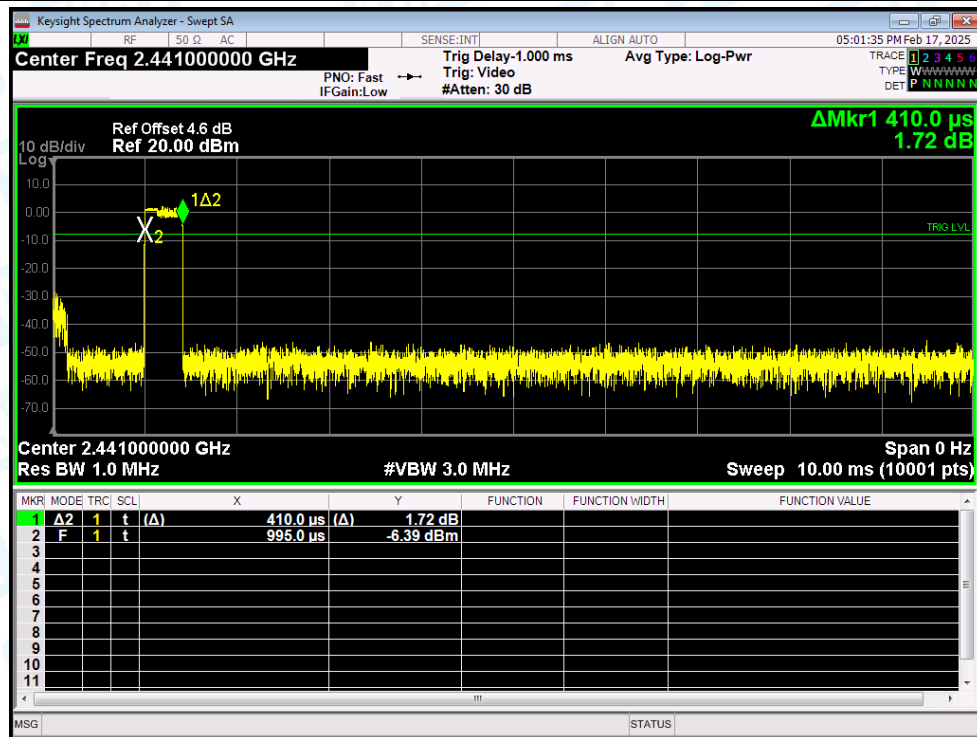
Dwell NVNT 2-DH3 2441MHz Ant1



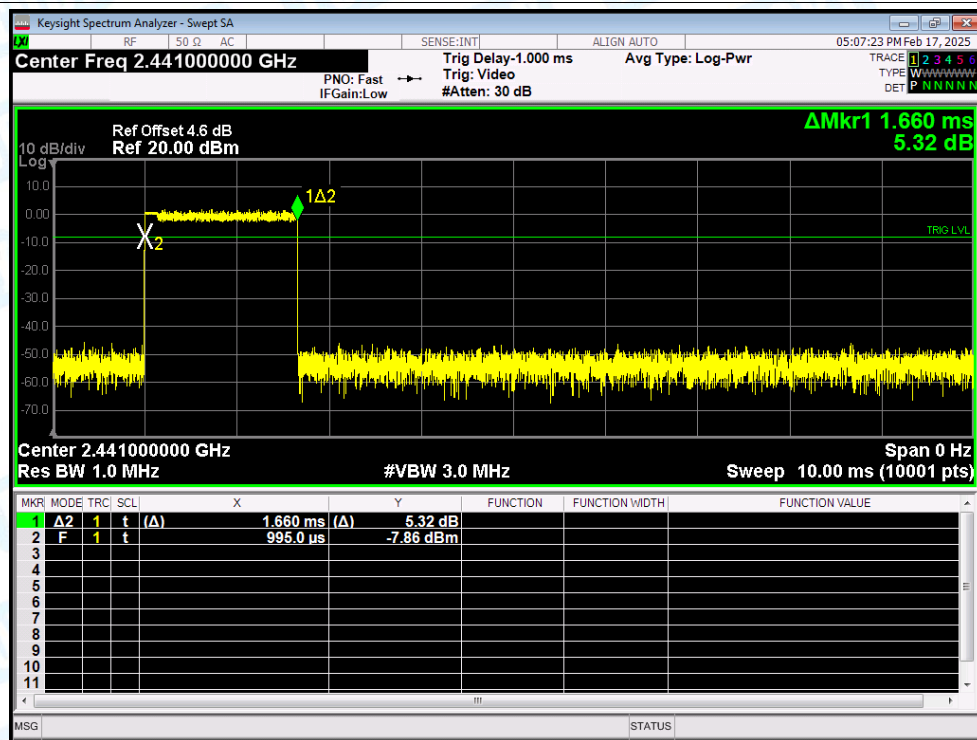
Dwell NVNT 2-DH5 2441MHz Ant1

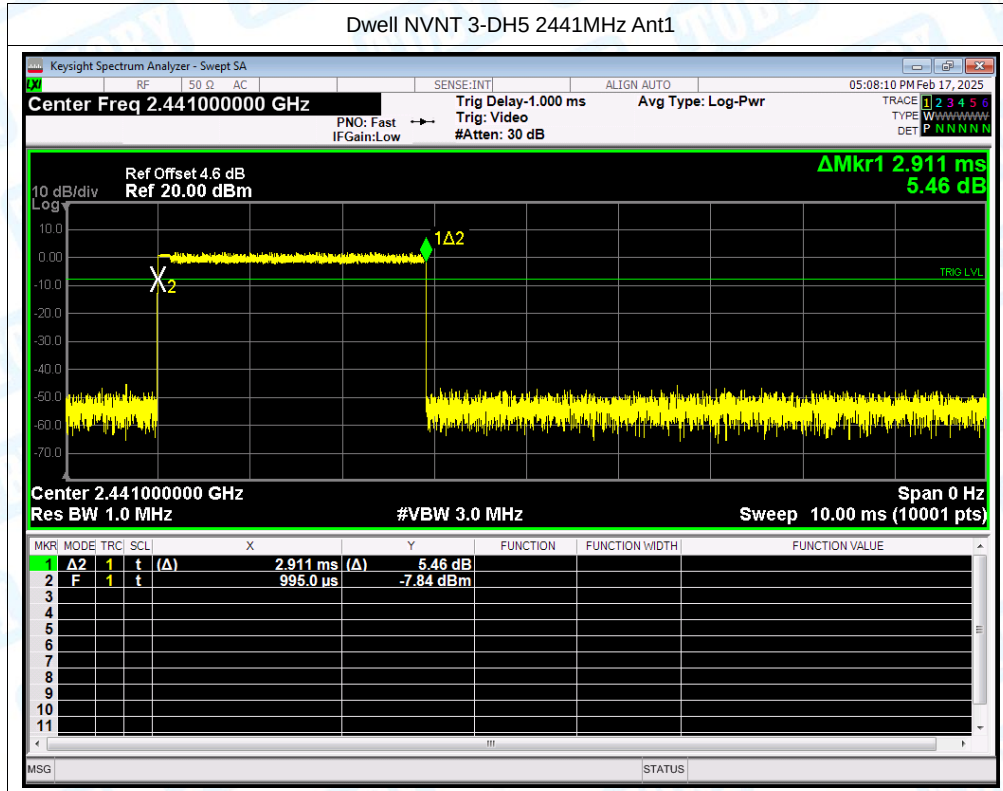


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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