

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	smart watch
Test Model:	TR3MAX
Sample ID:	HC-C-202411-0098-01-01-2#
Environmental Conditions	
Temperature:	24.2℃
Relative Humidity:	45%
Test Voltage:	DC 3.8V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202411-0098-81 The report only show the worst case data.	

Contents

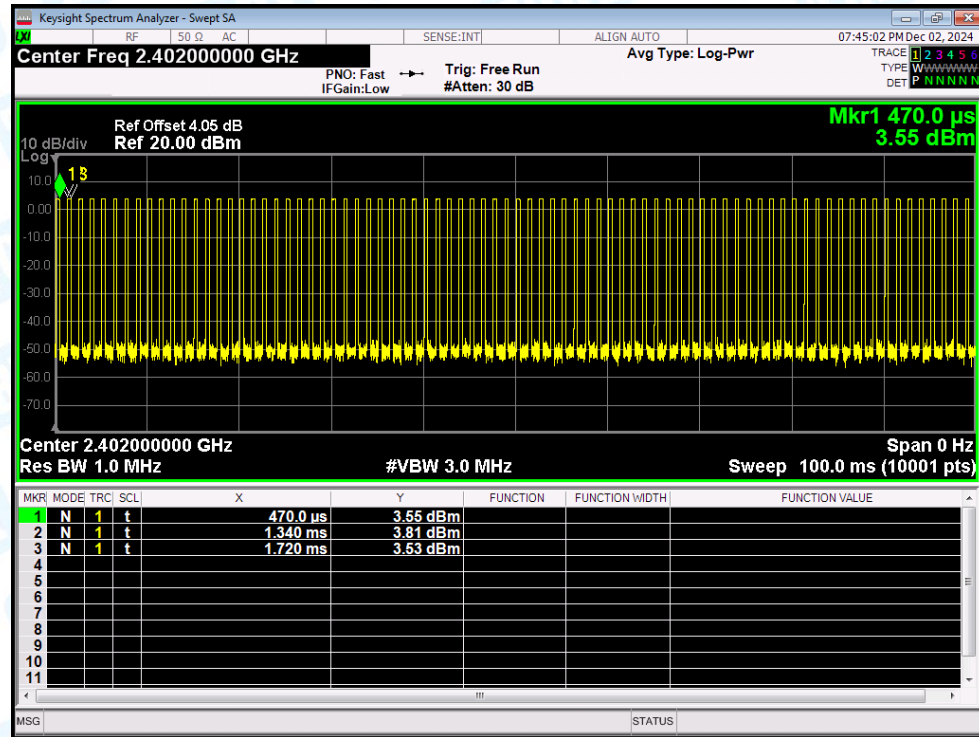
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1. Duty Cycle

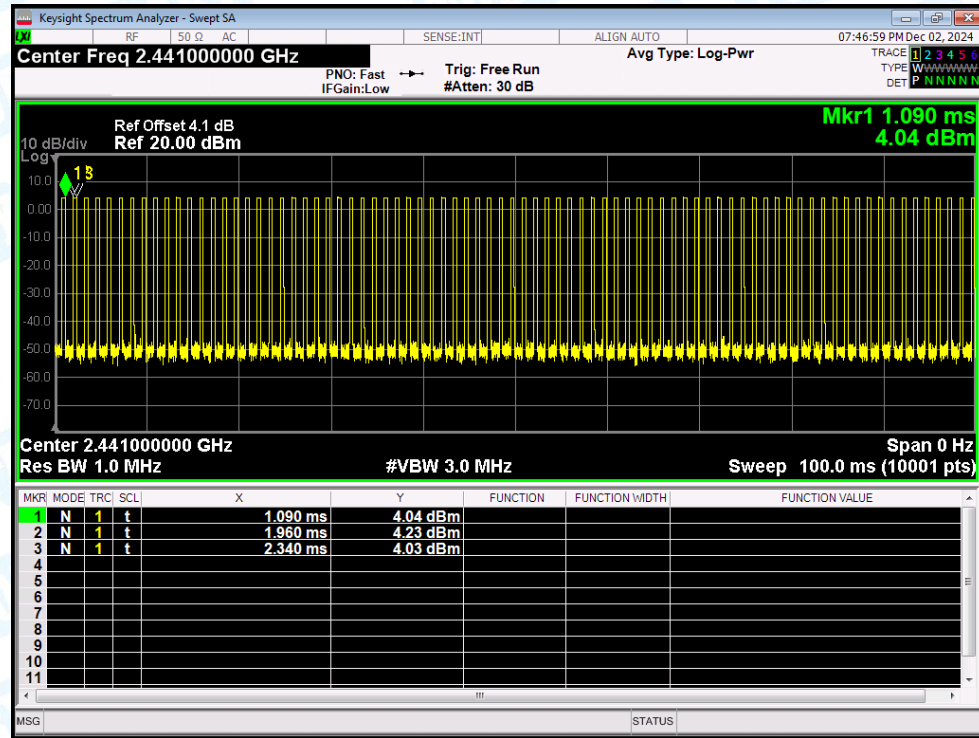
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2441	Ant1	30.4	5.17	2.63
NVNT	1-DH1	2480	Ant1	30.4	5.17	2.63
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	32	4.95	2.5
NVNT	3-DH1	2441	Ant1	32	4.95	2.5
NVNT	3-DH1	2480	Ant1	32	4.95	2.5

Test Graphs

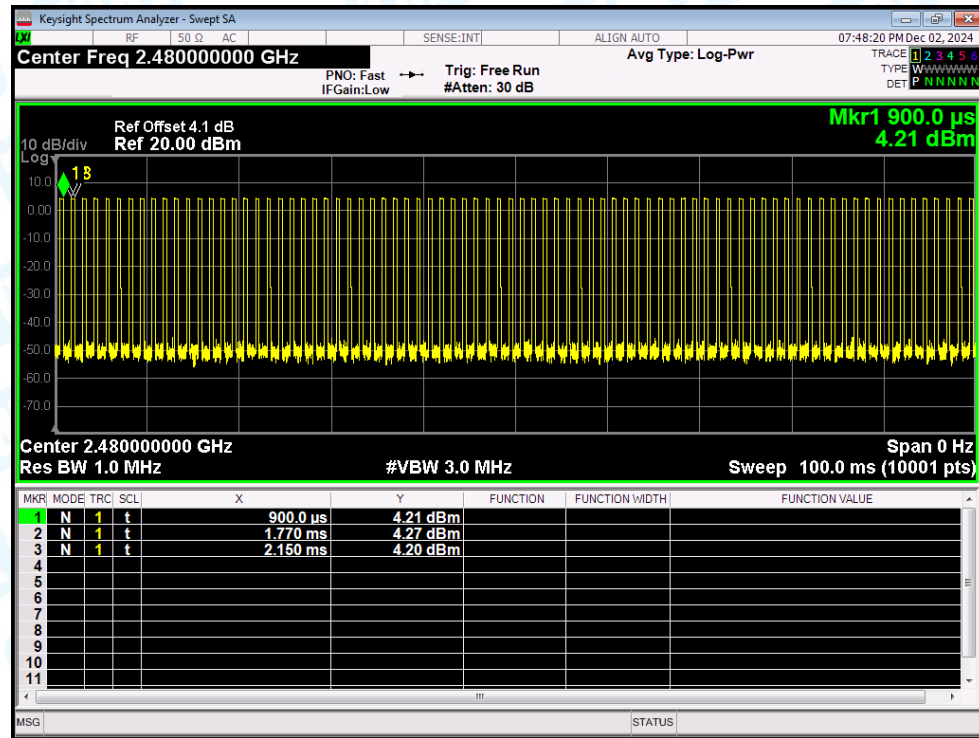
Duty Cycle NVNT 1-DH1 2402MHz Ant1



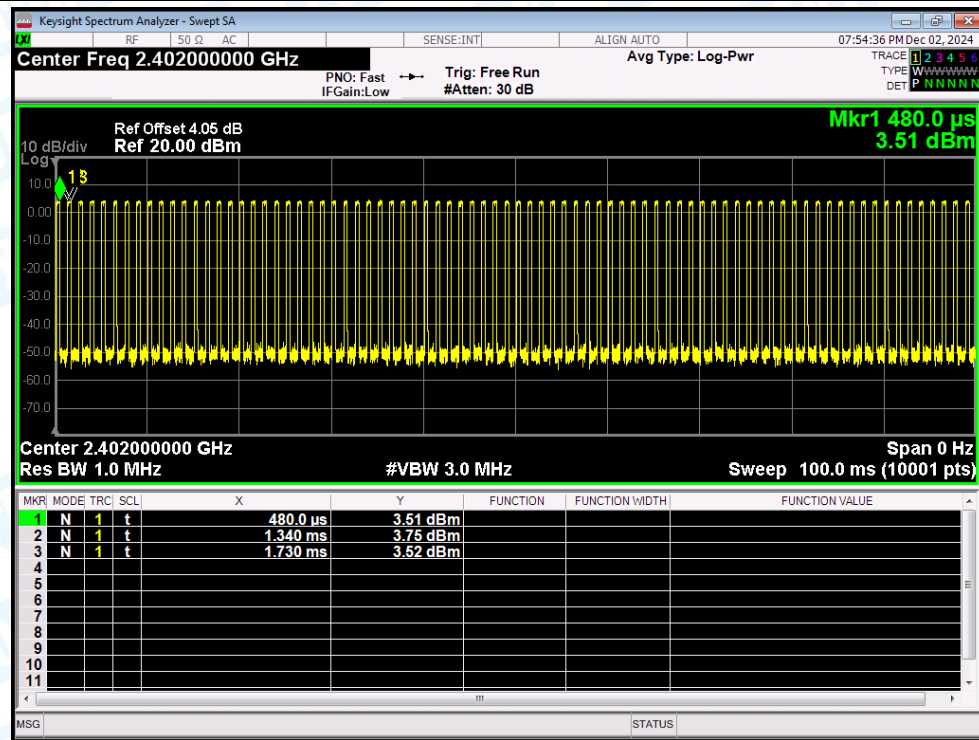
Duty Cycle NVNT 1-DH1 2441MHz Ant1



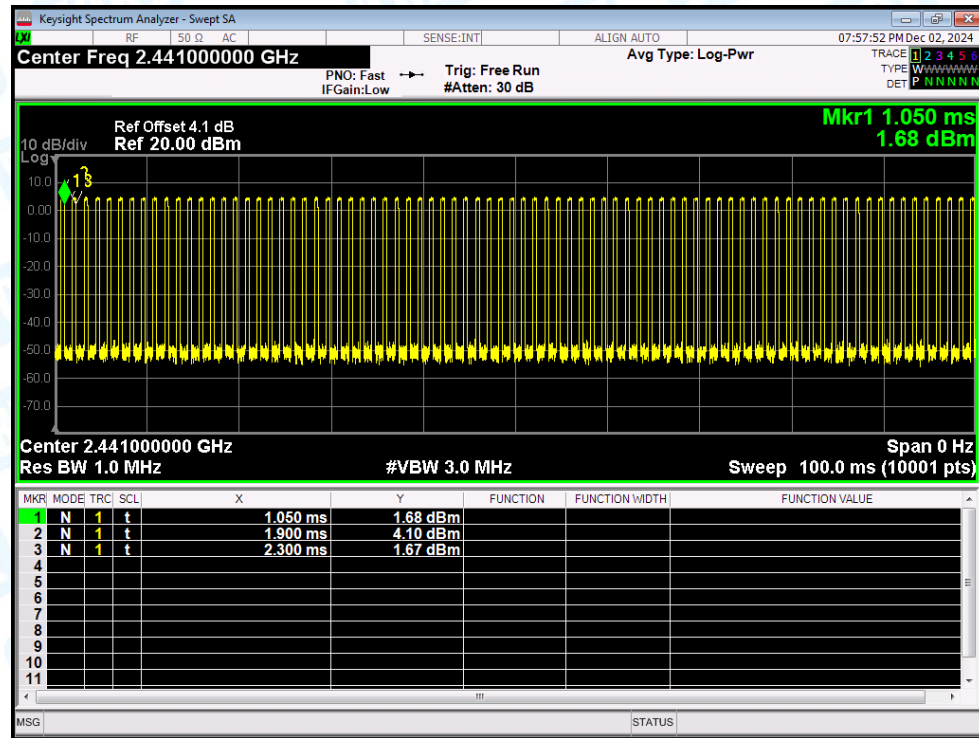
Duty Cycle NVNT 1-DH1 2480MHz Ant1



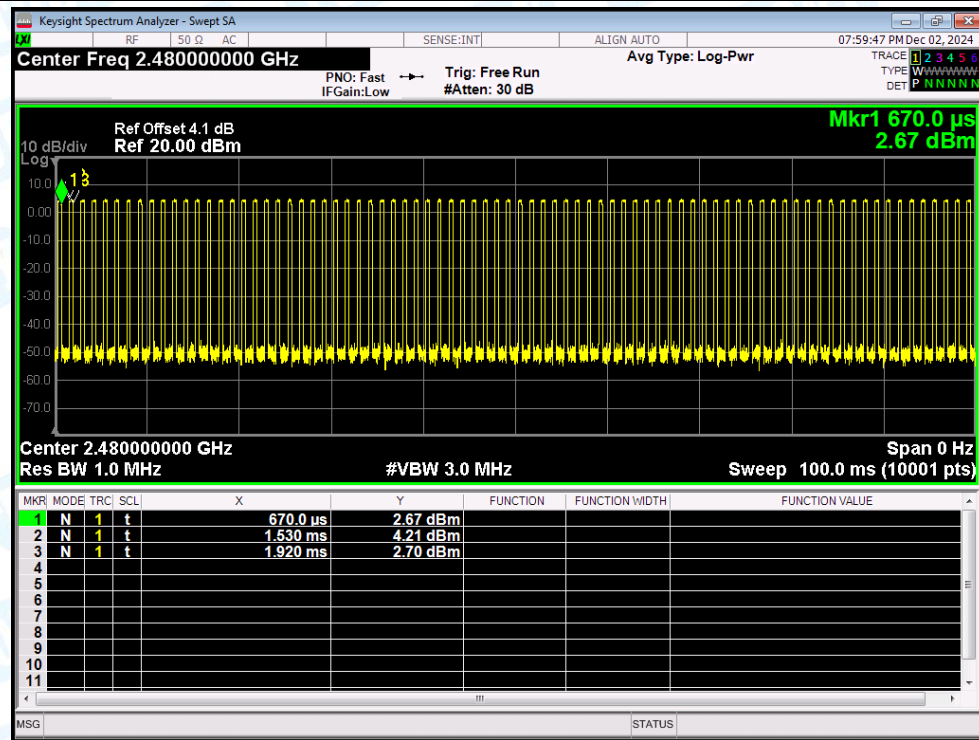
Duty Cycle NVNT 2-DH1 2402MHz Ant1



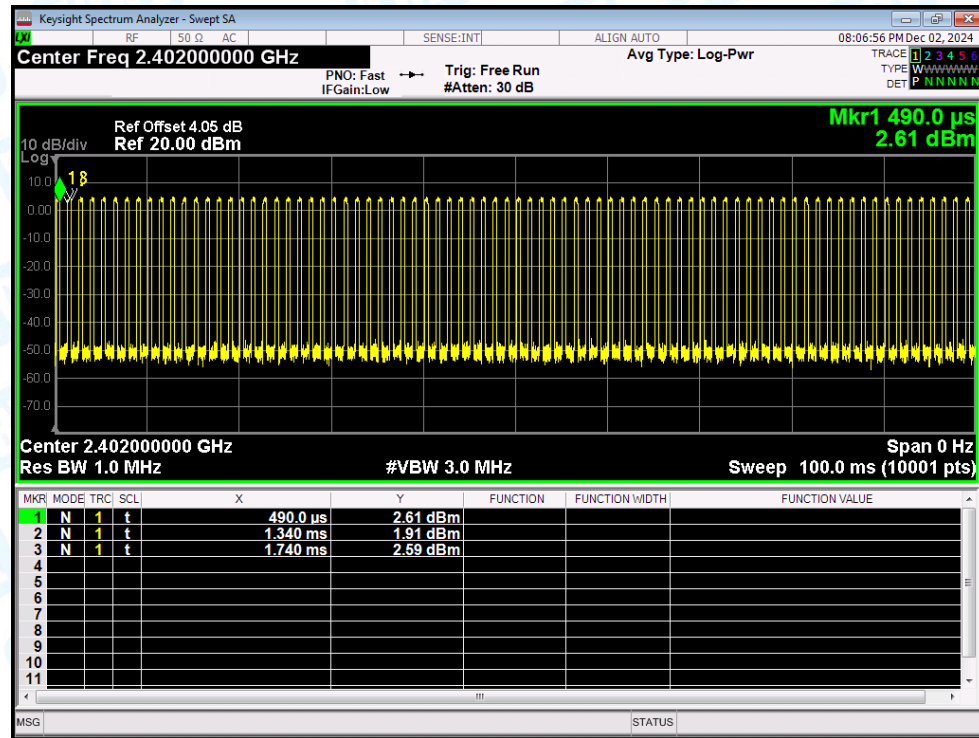
Duty Cycle NVNT 2-DH1 2441MHz Ant1



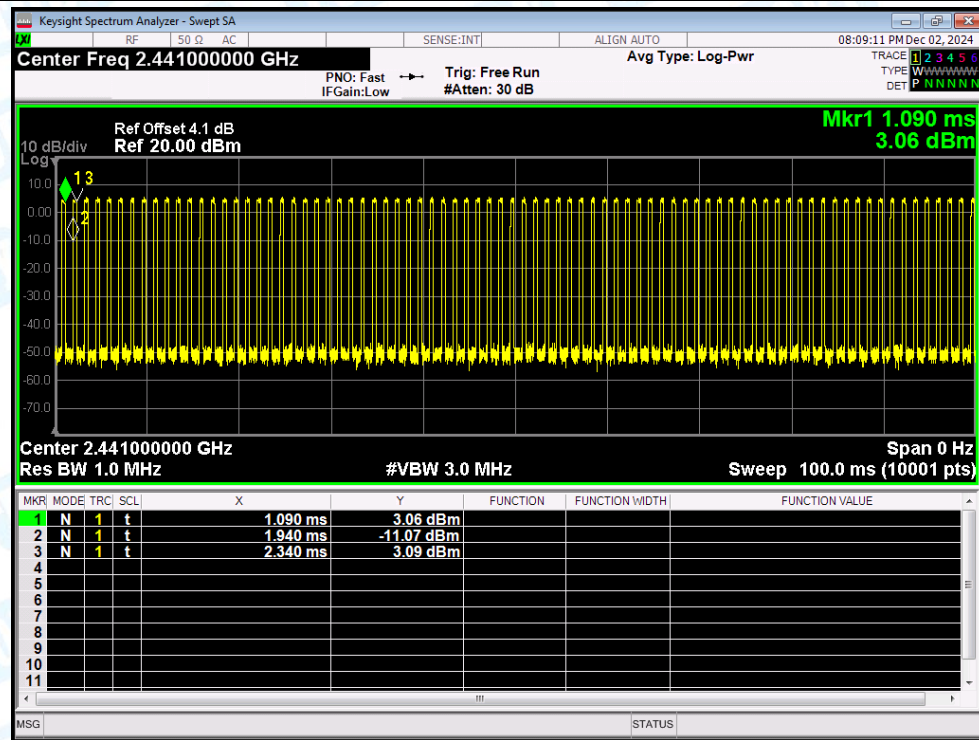
Duty Cycle NVNT 2-DH1 2480MHz Ant1

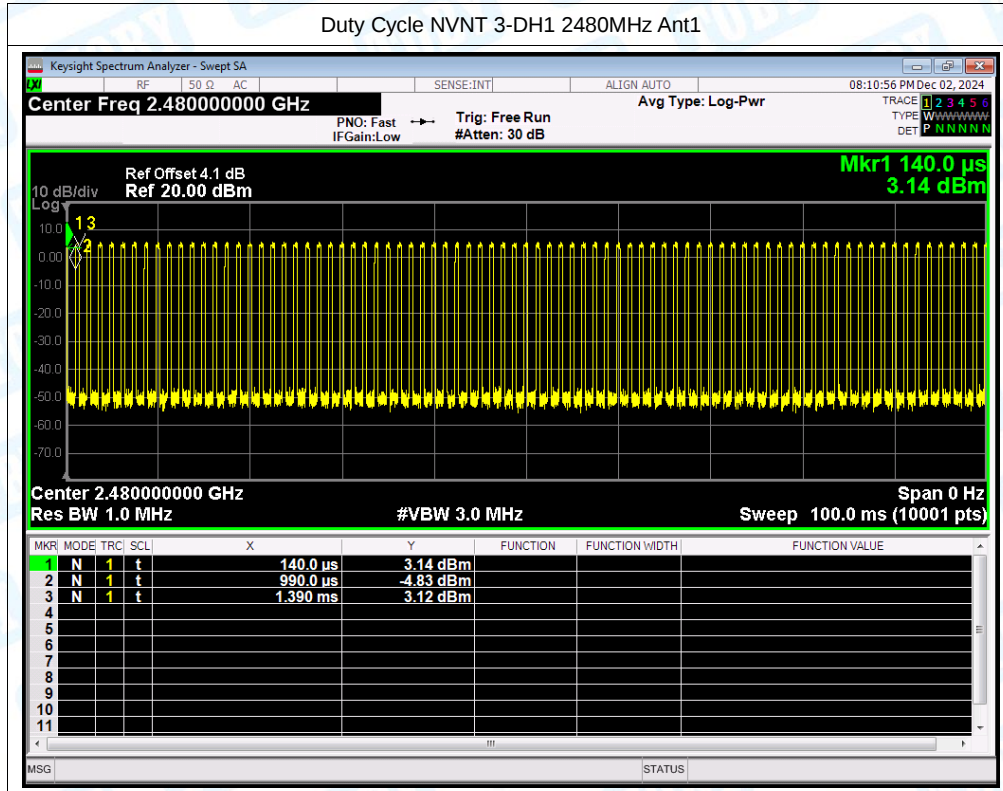


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



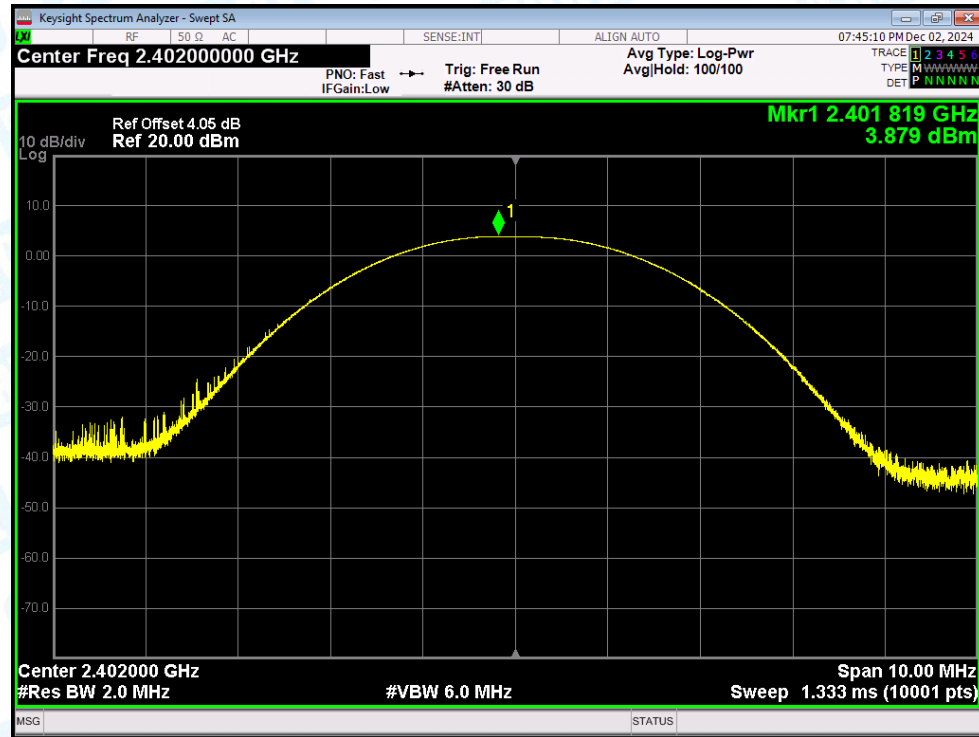


2. Maximum Conducted Output Power

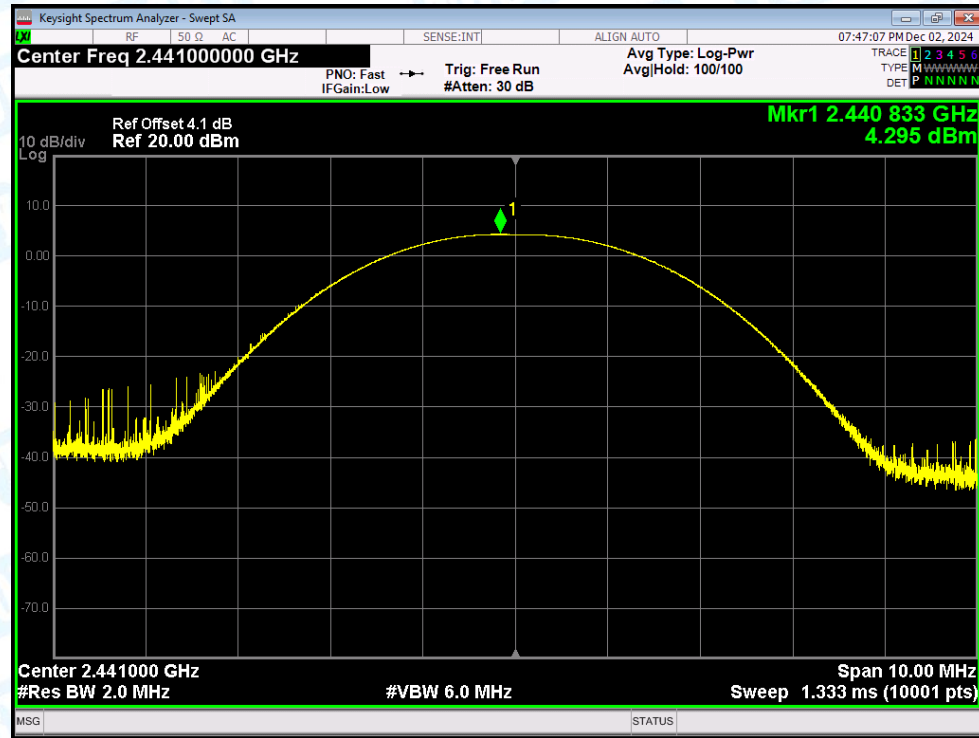
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.879	21	Pass
NVNT	1-DH1	2441	Ant1	4.295	21	Pass
NVNT	1-DH1	2480	Ant1	4.336	21	Pass
NVNT	1-DH3	2441	Ant1	4.248	21	Pass
NVNT	1-DH5	2441	Ant1	4.239	21	Pass
NVNT	2-DH1	2402	Ant1	4.658	21	Pass
NVNT	2-DH1	2441	Ant1	5.063	21	Pass
NVNT	2-DH1	2480	Ant1	5.073	21	Pass
NVNT	2-DH3	2441	Ant1	5.121	21	Pass
NVNT	2-DH5	2441	Ant1	5.085	21	Pass
NVNT	3-DH1	2402	Ant1	5.295	21	Pass
NVNT	3-DH1	2441	Ant1	5.693	21	Pass
NVNT	3-DH1	2480	Ant1	5.678	21	Pass
NVNT	3-DH3	2441	Ant1	5.444	21	Pass
NVNT	3-DH5	2441	Ant1	5.463	21	Pass

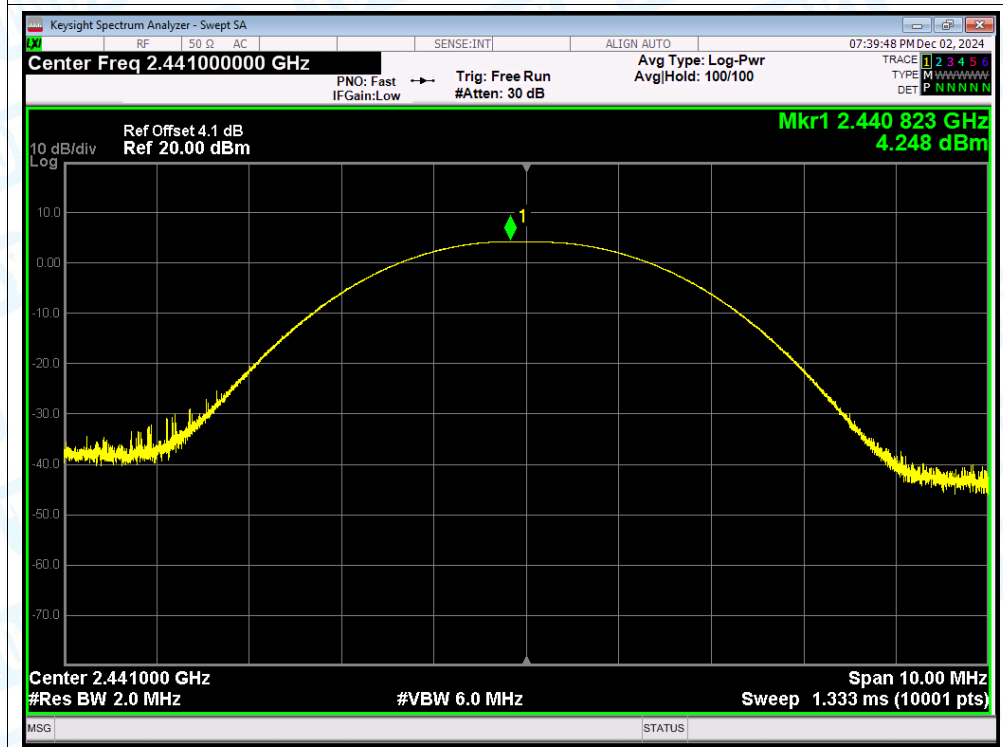
Test Graphs

Power NVNT 1-DH1 2402MHz Ant1

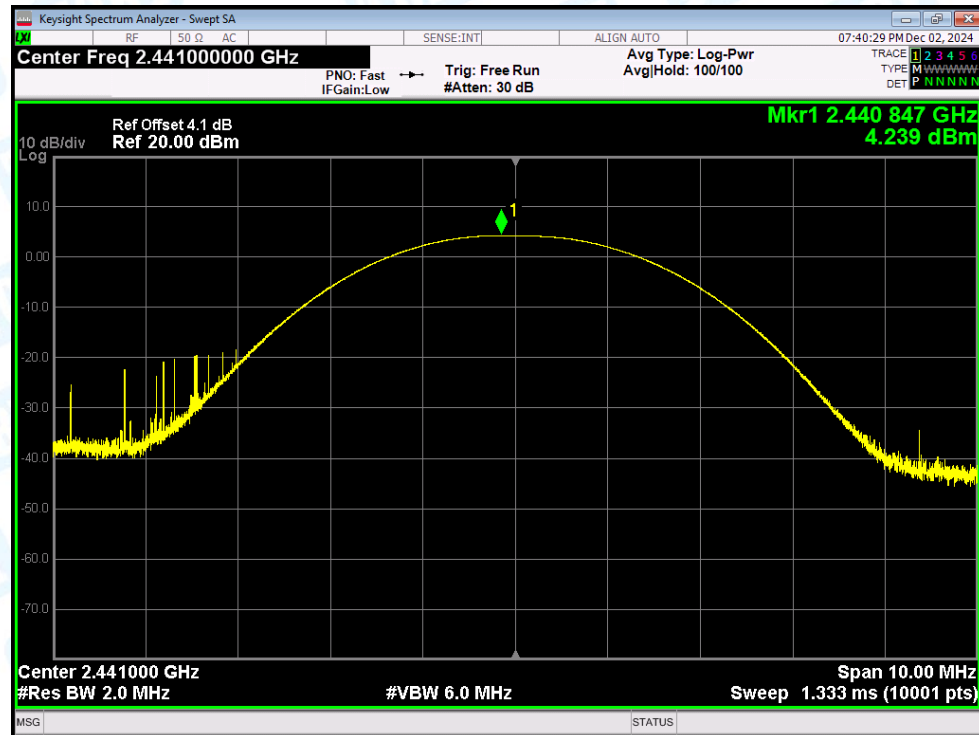


Power NVNT 1-DH1 2441MHz Ant1

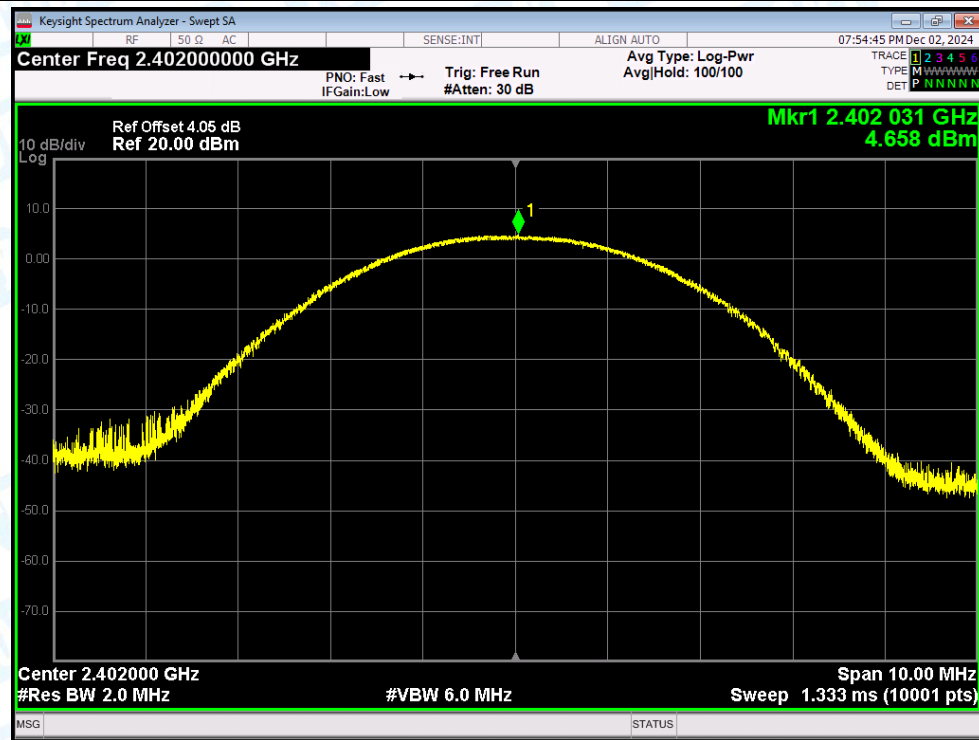




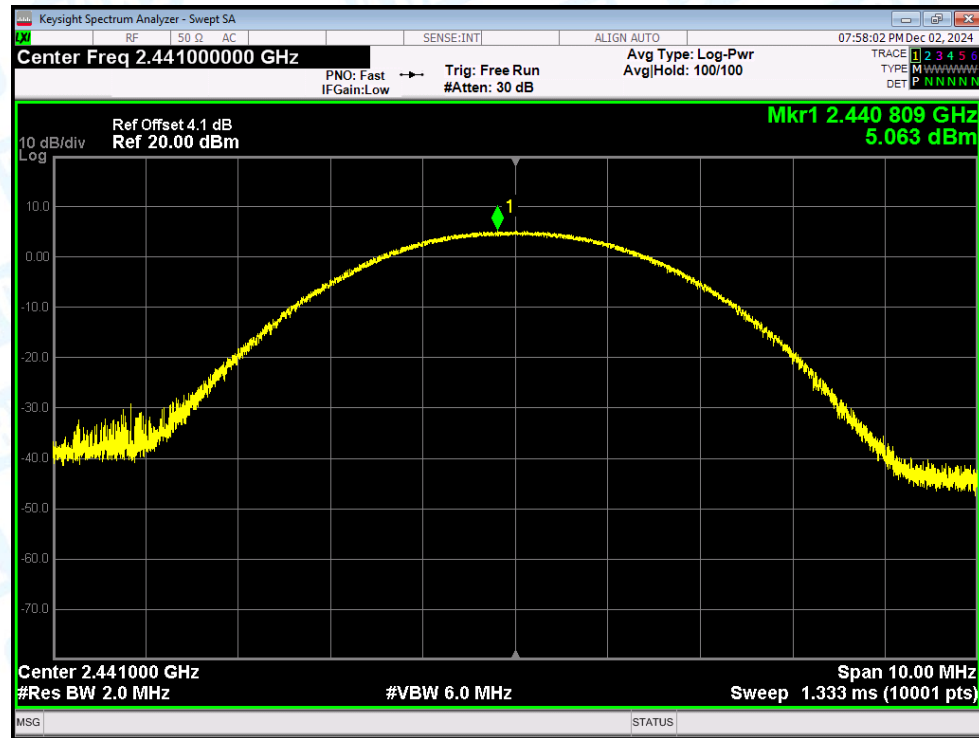
Power NVNT 1-DH5 2441MHz Ant1



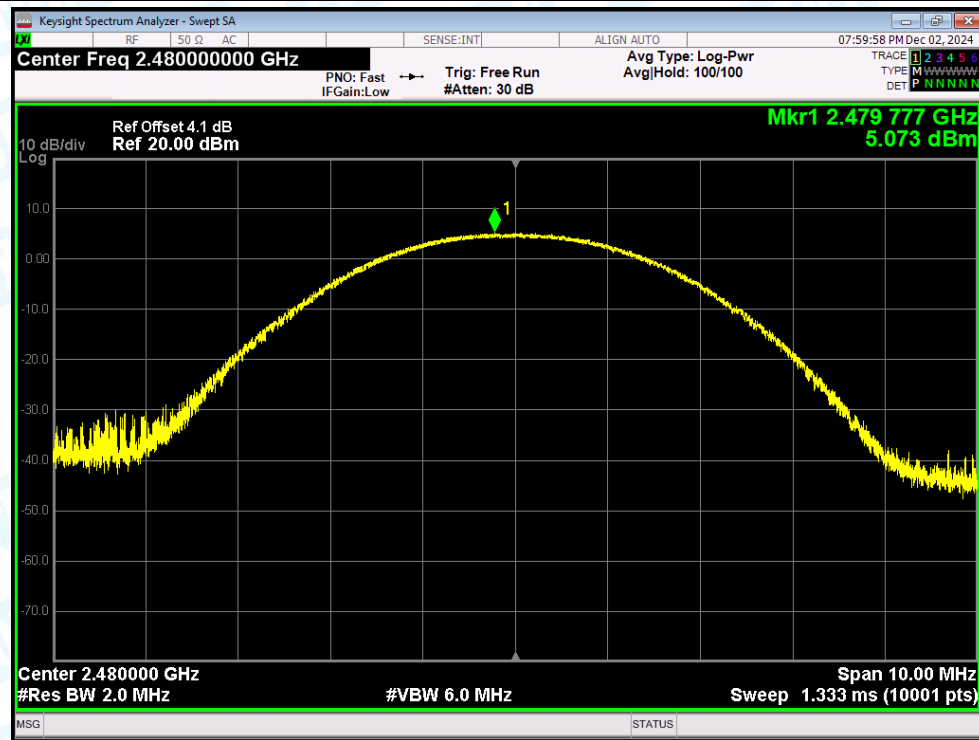
Power NVNT 2-DH1 2402MHz Ant1



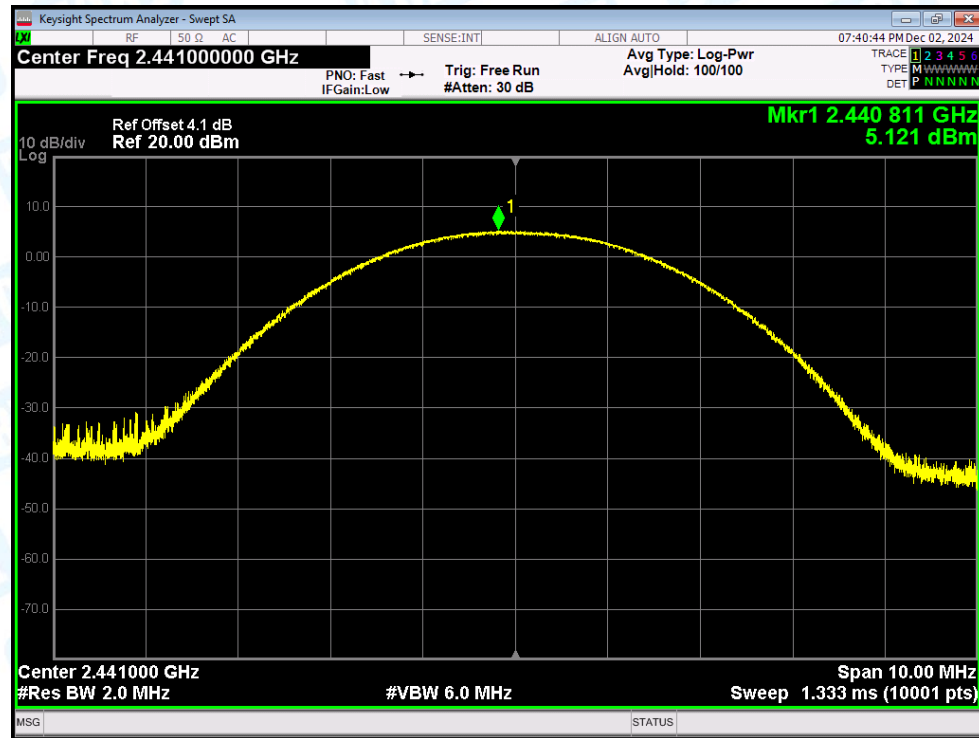
Power NVNT 2-DH1 2441MHz Ant1



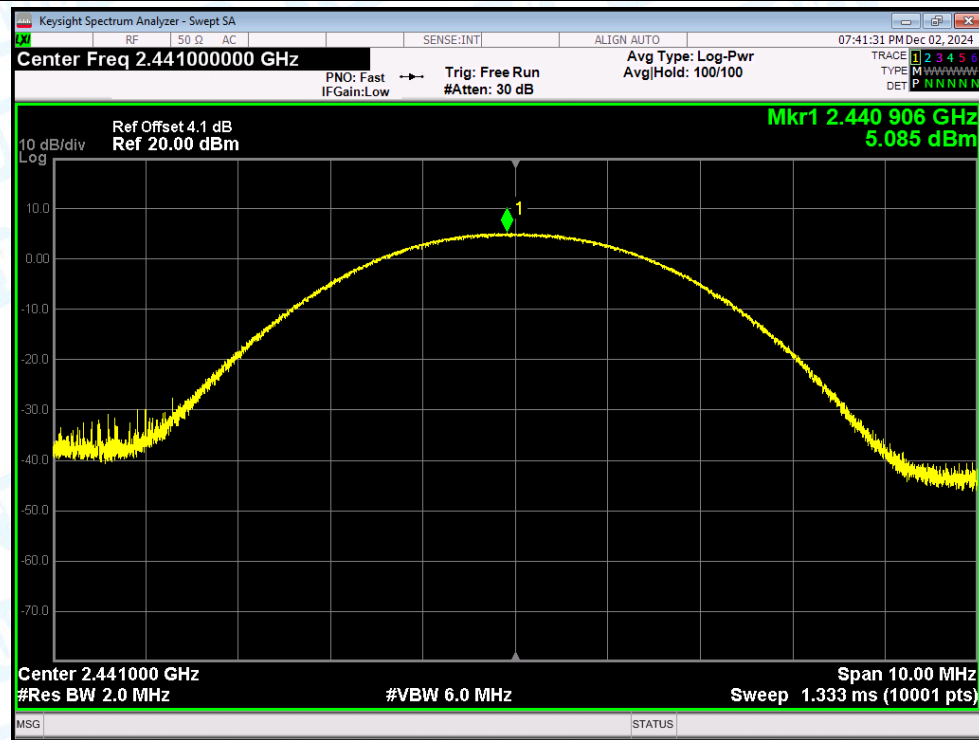
Power NVNT 2-DH1 2480MHz Ant1



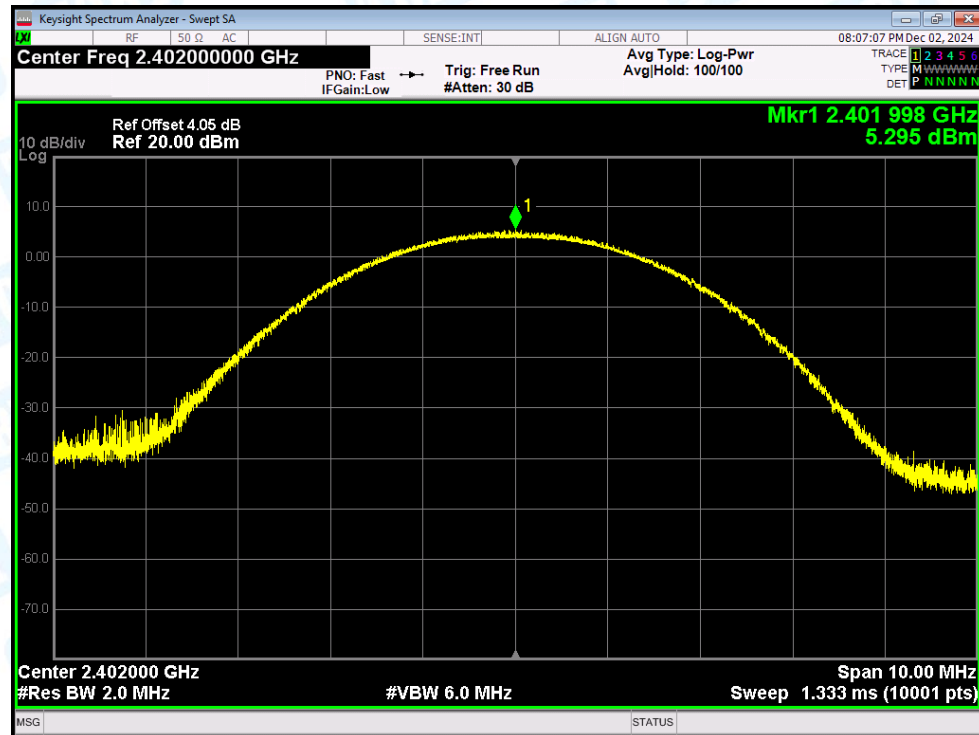
Power NVNT 2-DH3 2441MHz Ant1



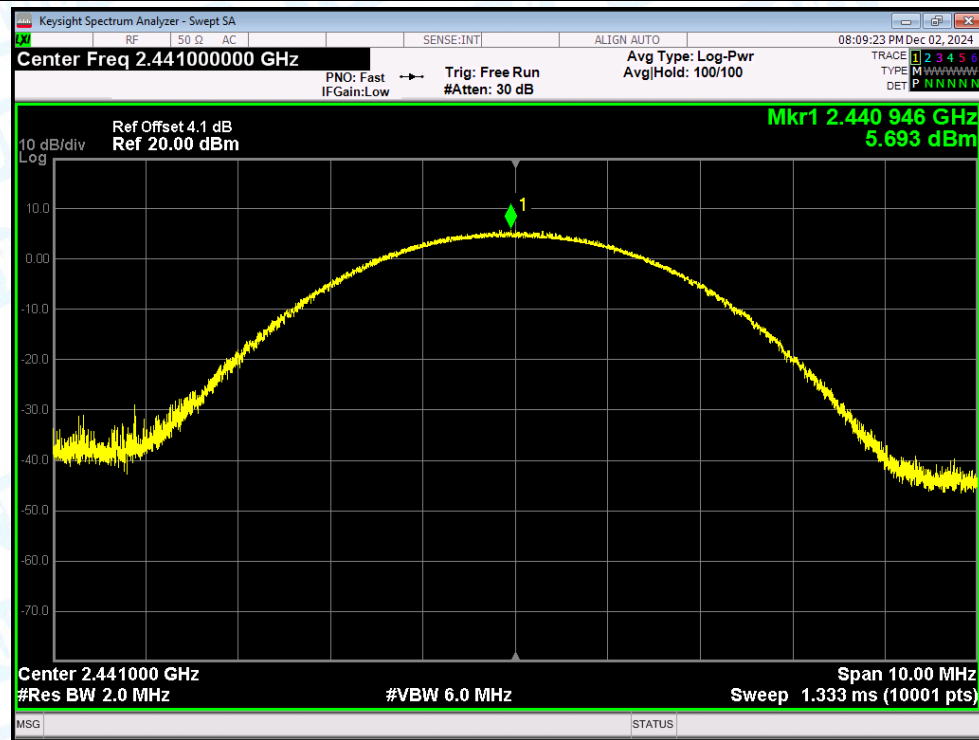
Power NVNT 2-DH5 2441MHz Ant1



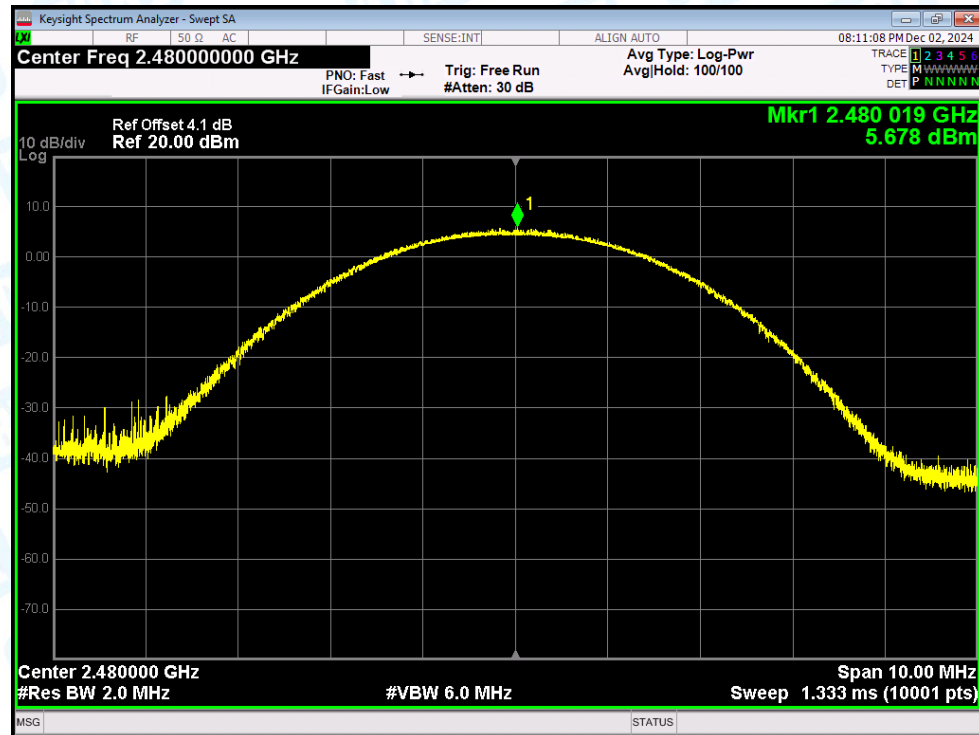
Power NVNT 3-DH1 2402MHz Ant1



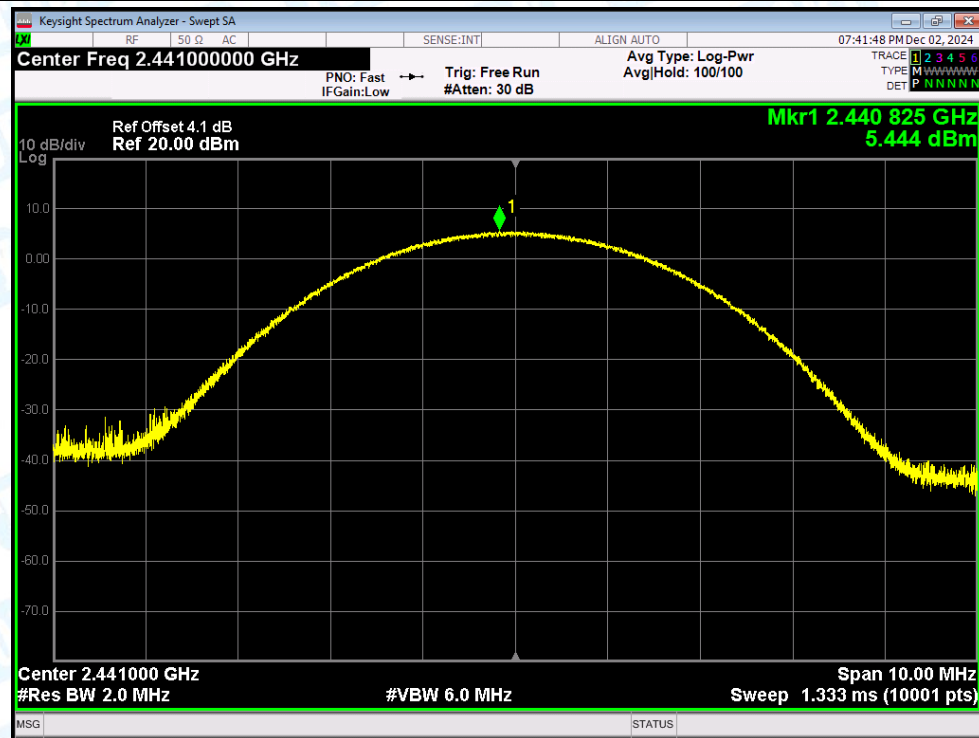
Power NVNT 3-DH1 2441MHz Ant1

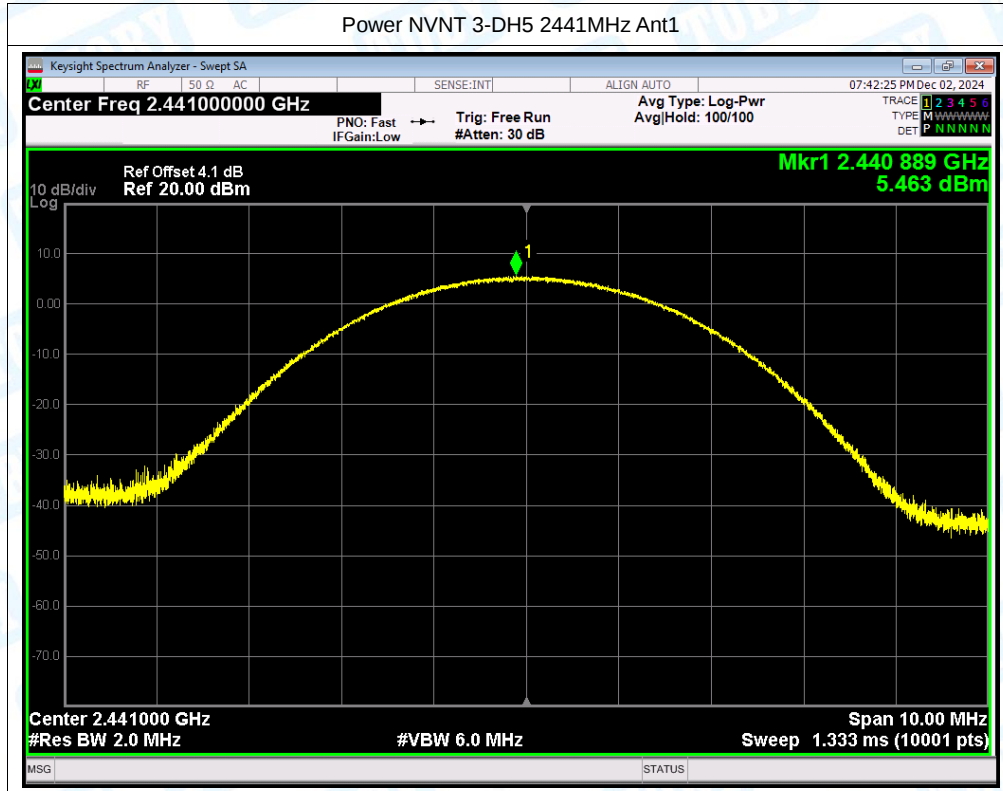


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



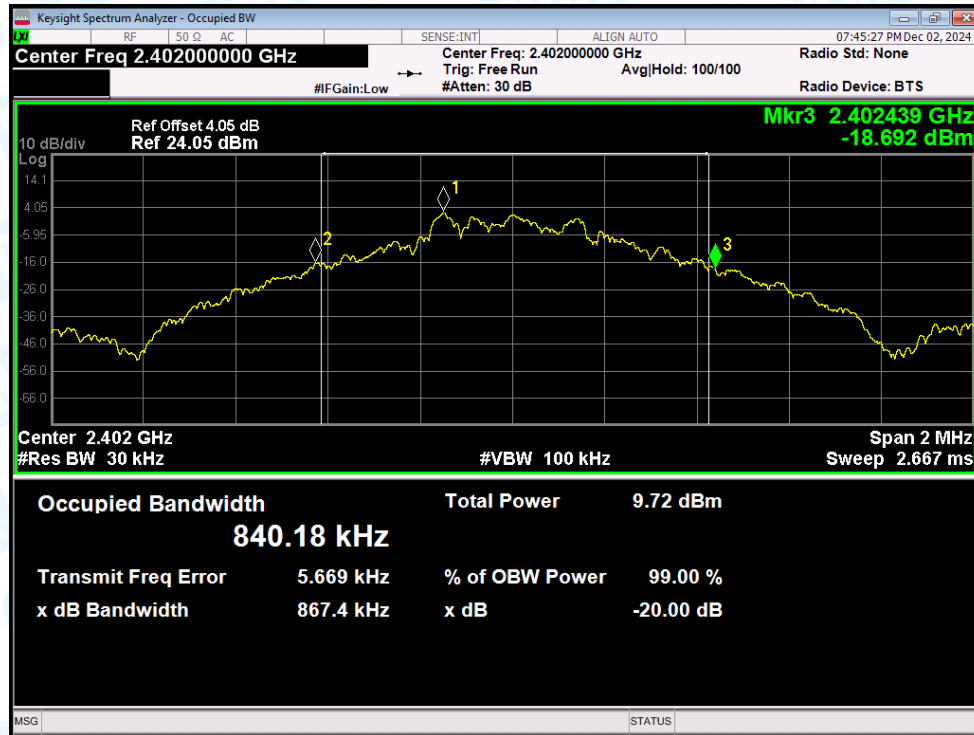


3. -20dB Bandwidth

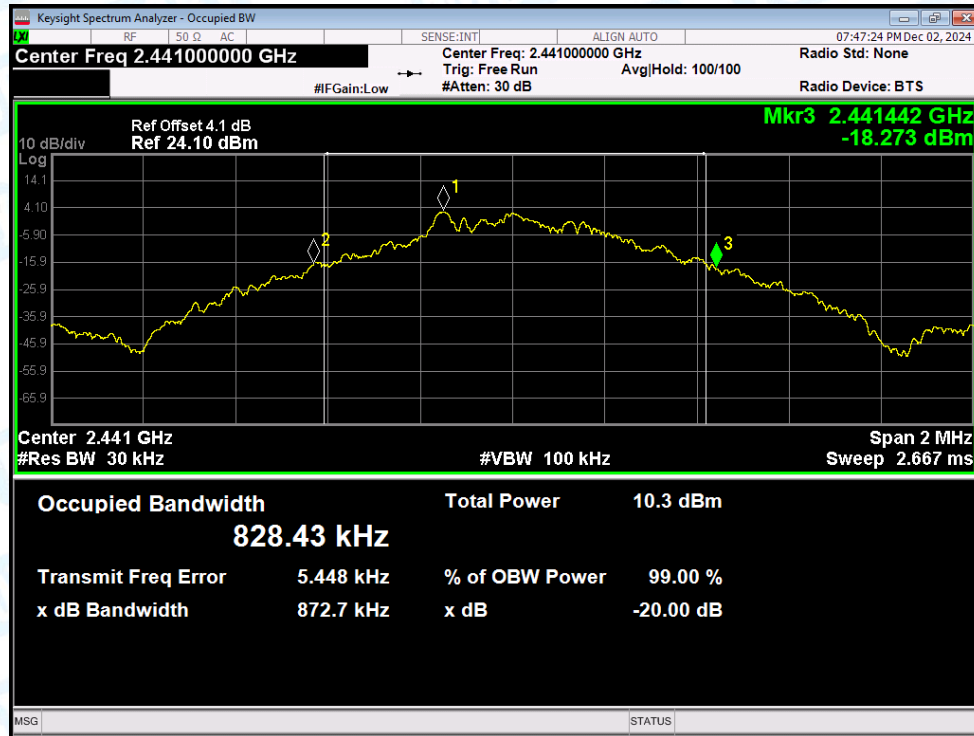
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.87	0	Pass
NVNT	1-DH1	2441	Ant1	0.87	0	Pass
NVNT	1-DH1	2480	Ant1	0.87	0	Pass
NVNT	2-DH1	2402	Ant1	1.22	0	Pass
NVNT	2-DH1	2441	Ant1	1.24	0	Pass
NVNT	2-DH1	2480	Ant1	1.25	0	Pass
NVNT	3-DH1	2402	Ant1	1.25	0	Pass
NVNT	3-DH1	2441	Ant1	1.22	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



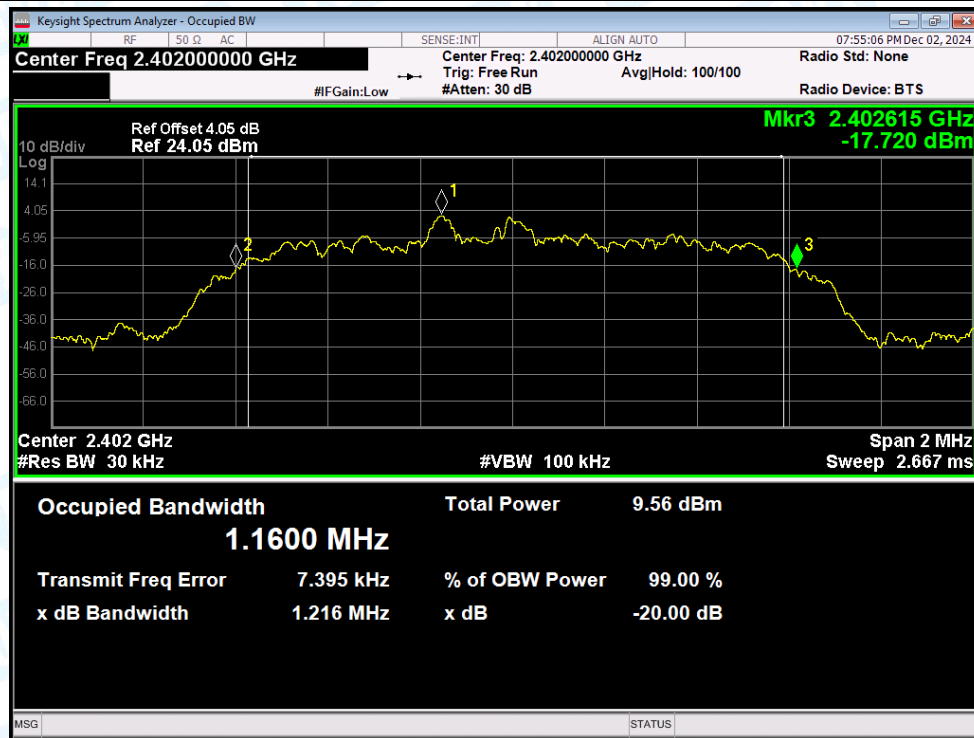
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



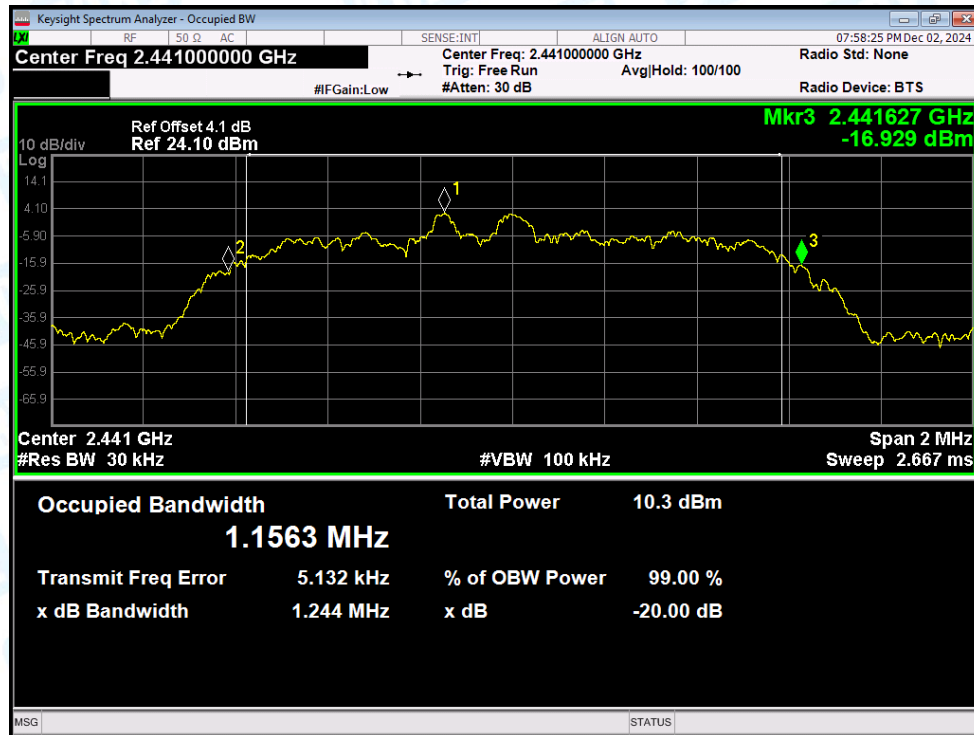
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



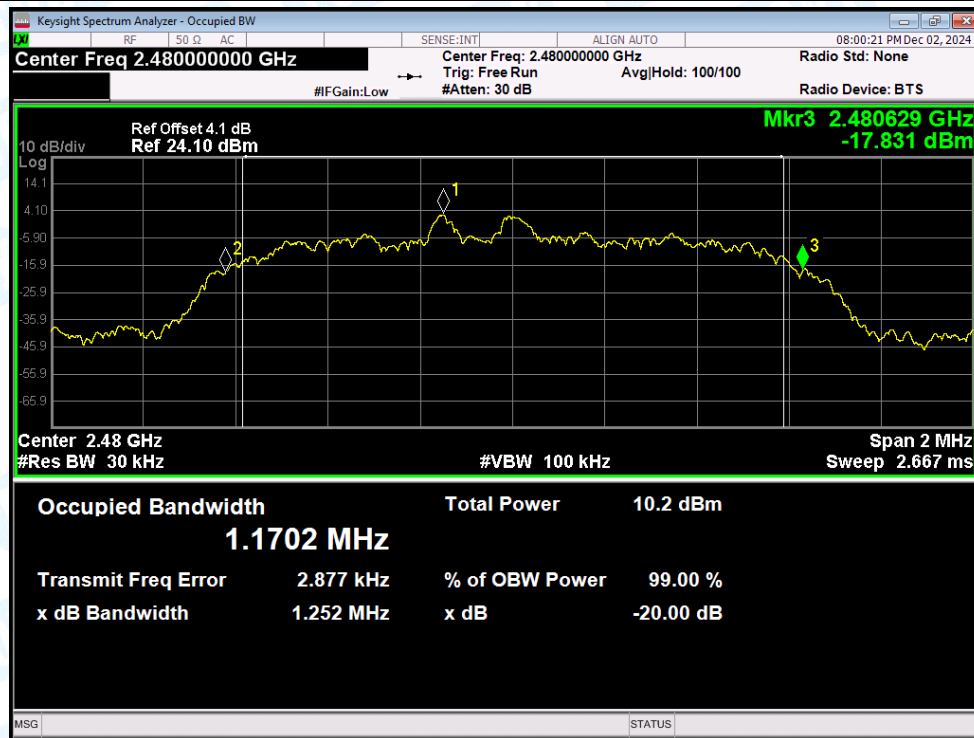
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



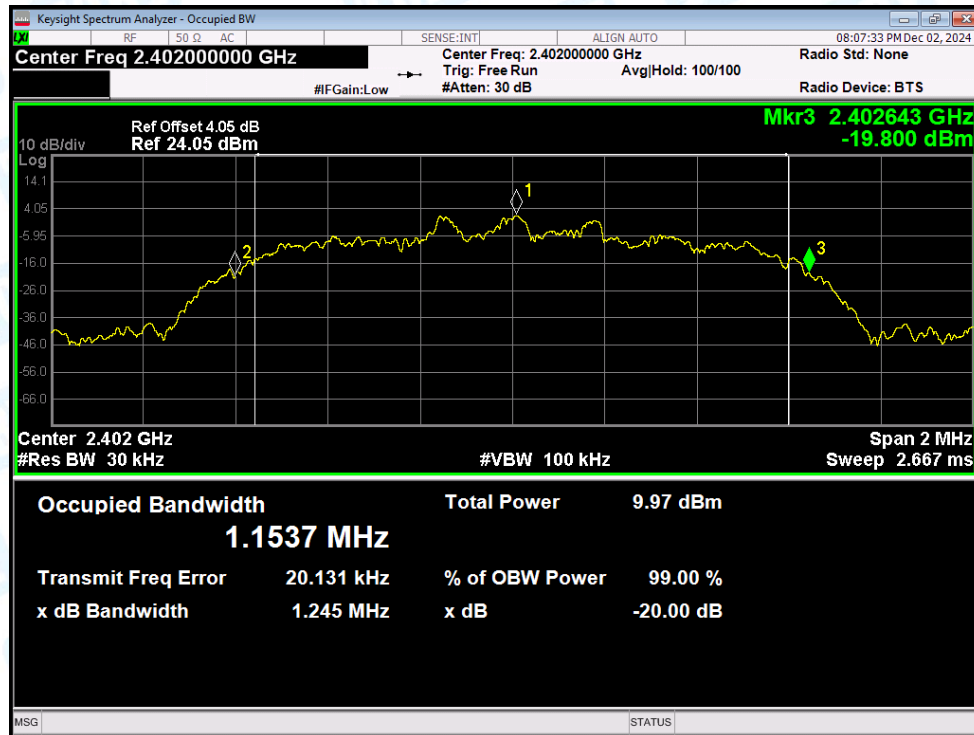
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



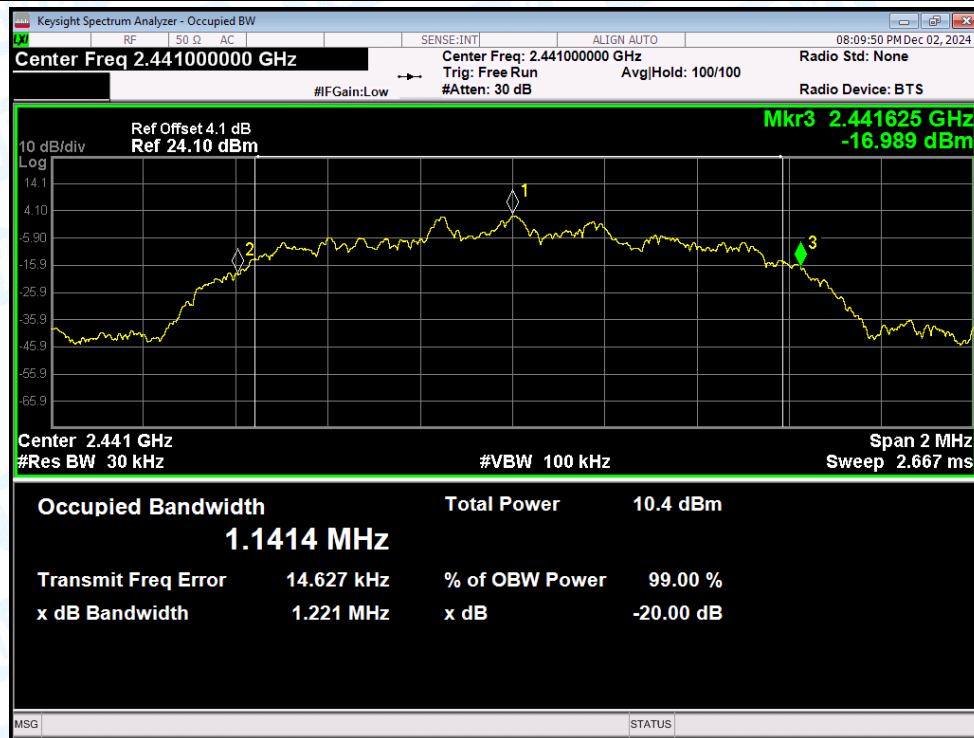
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

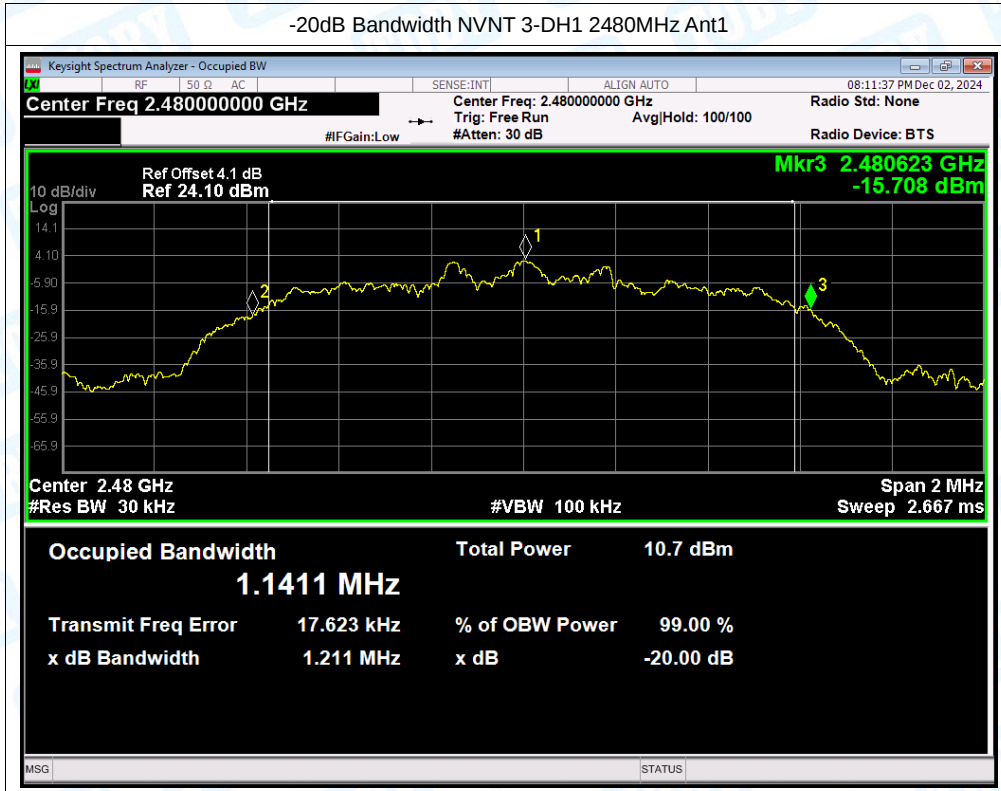


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



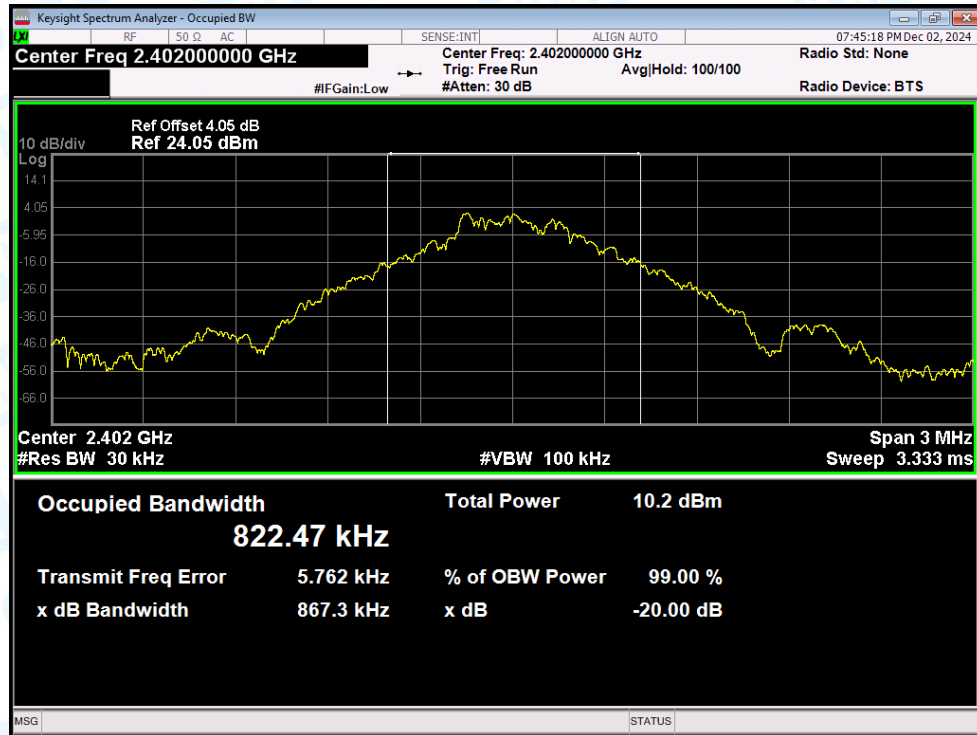


4. Occupied Channel Bandwidth

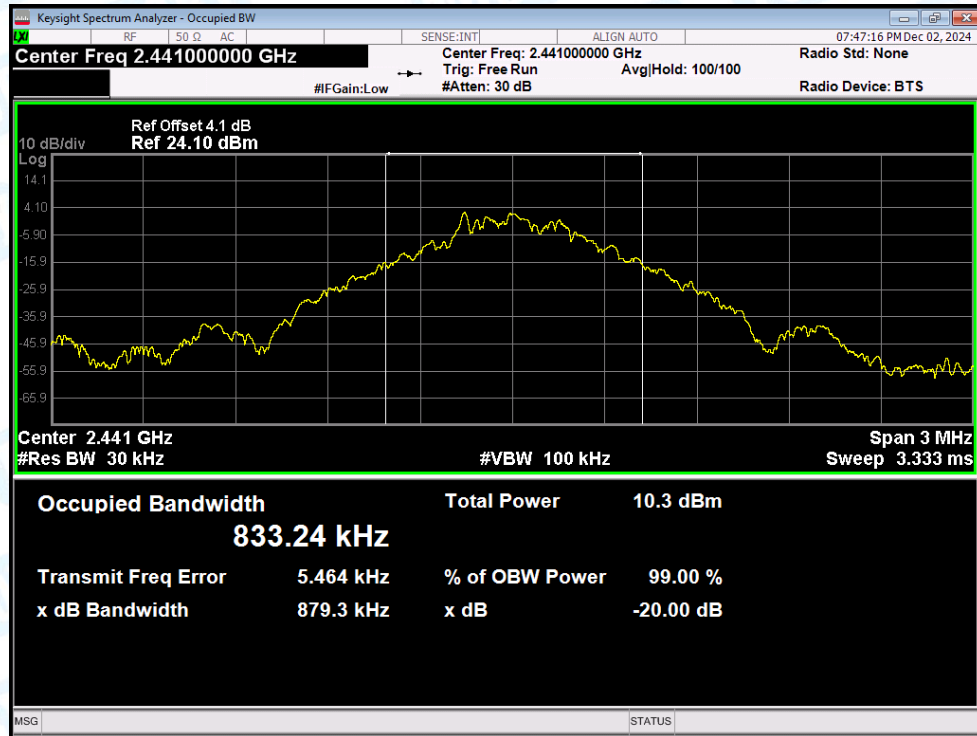
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.822
NVNT	1-DH1	2441	Ant1	0.833
NVNT	1-DH1	2480	Ant1	0.83
NVNT	2-DH1	2402	Ant1	1.162
NVNT	2-DH1	2441	Ant1	1.161
NVNT	2-DH1	2480	Ant1	1.17
NVNT	3-DH1	2402	Ant1	1.152
NVNT	3-DH1	2441	Ant1	1.142
NVNT	3-DH1	2480	Ant1	1.152

Test Graphs

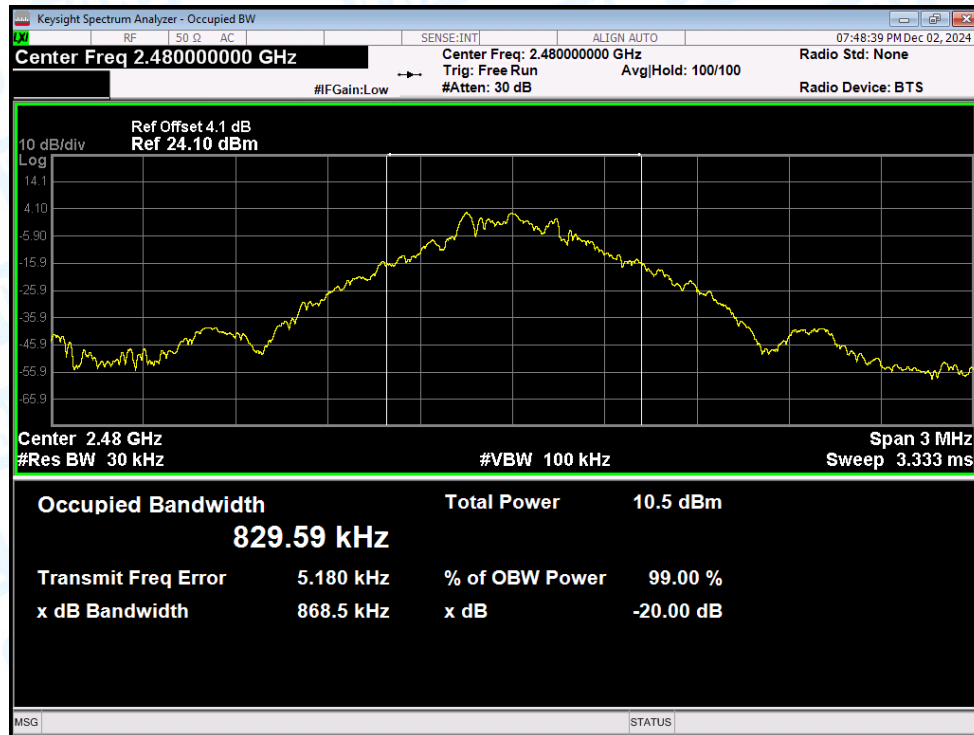
OBW NVNT 1-DH1 2402MHz Ant1



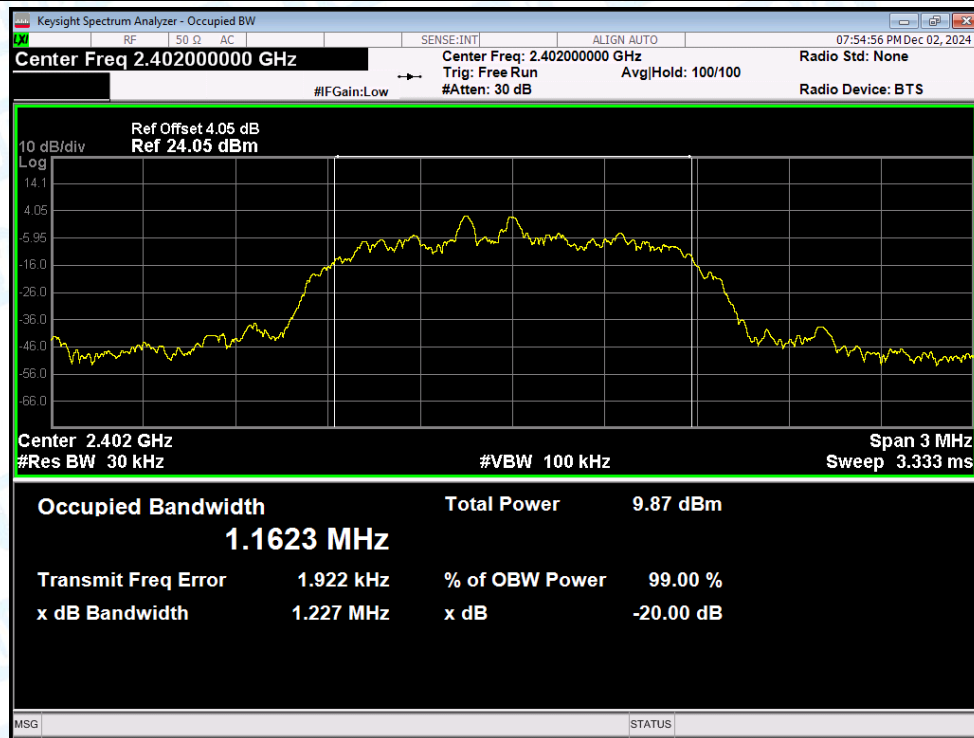
OBW NVNT 1-DH1 2441MHz Ant1



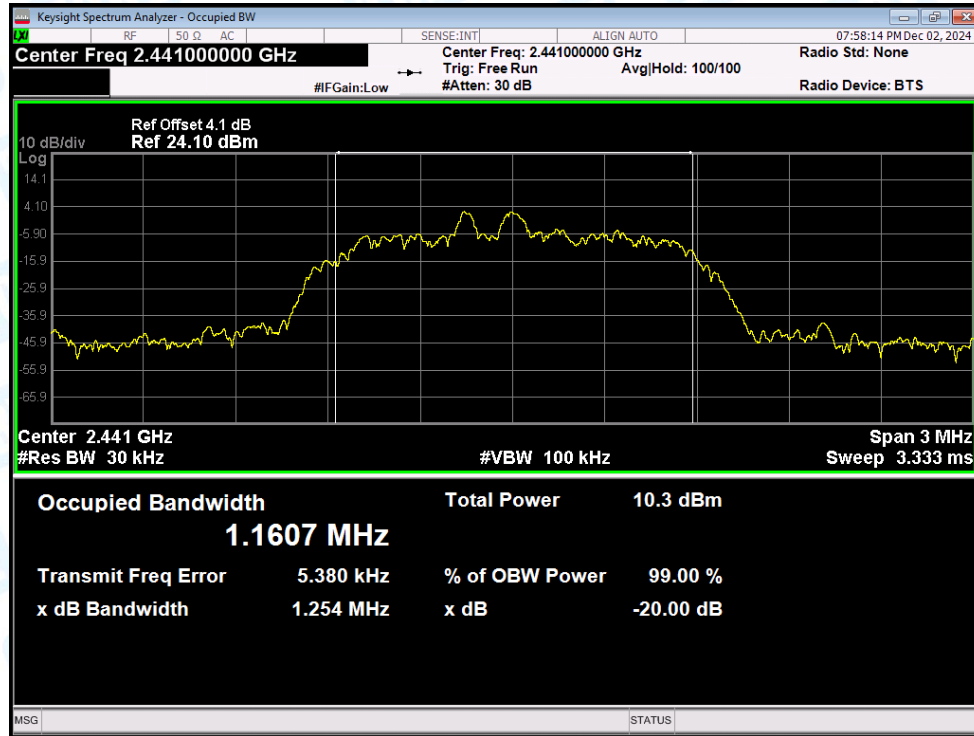
OBW NVNT 1-DH1 2480MHz Ant1



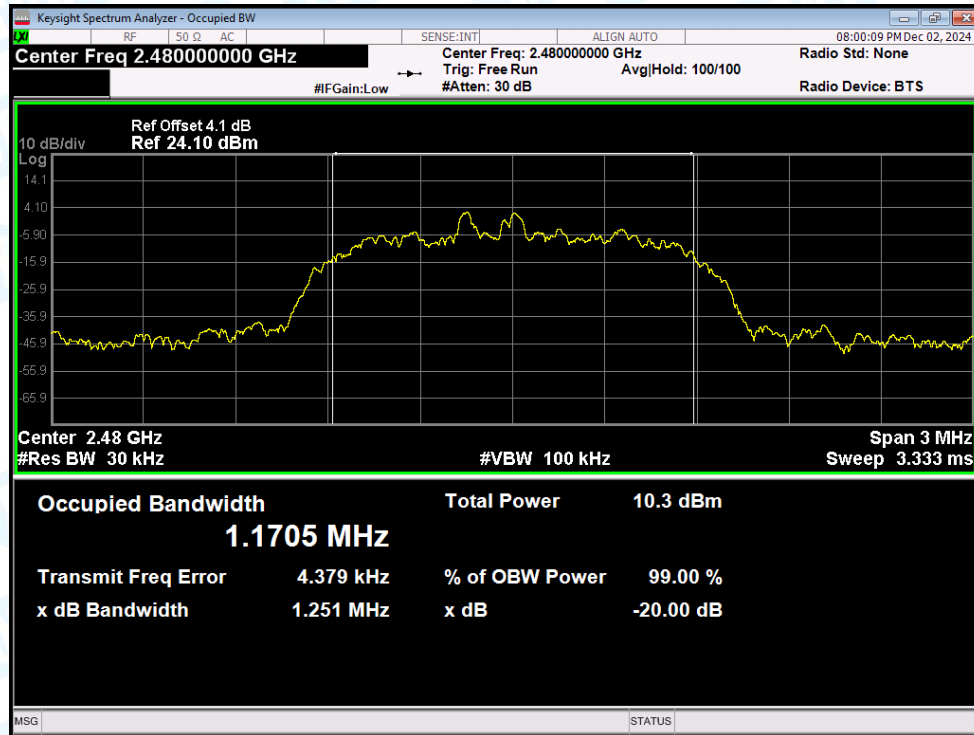
OBW NVNT 2-DH1 2402MHz Ant1



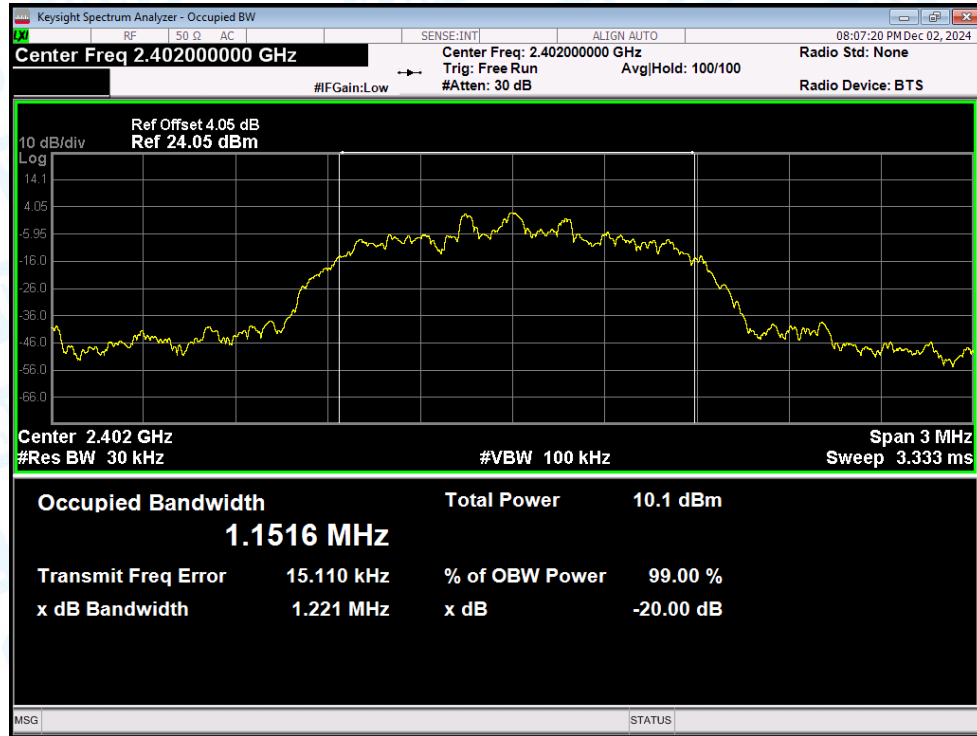
OBW NVNT 2-DH1 2441MHz Ant1



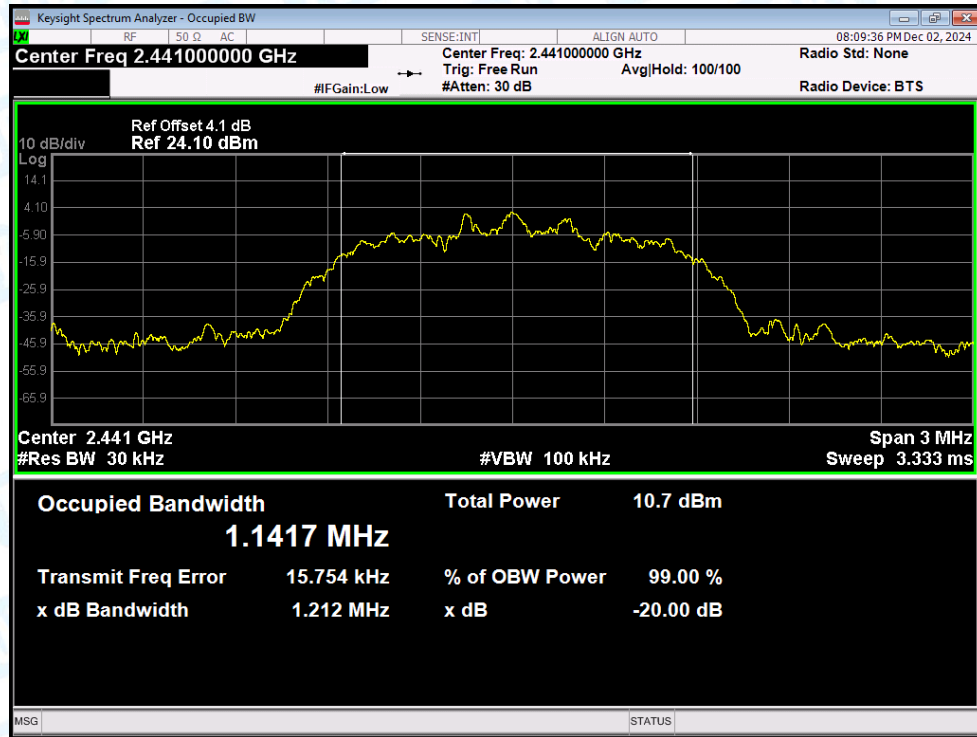
OBW NVNT 2-DH1 2480MHz Ant1

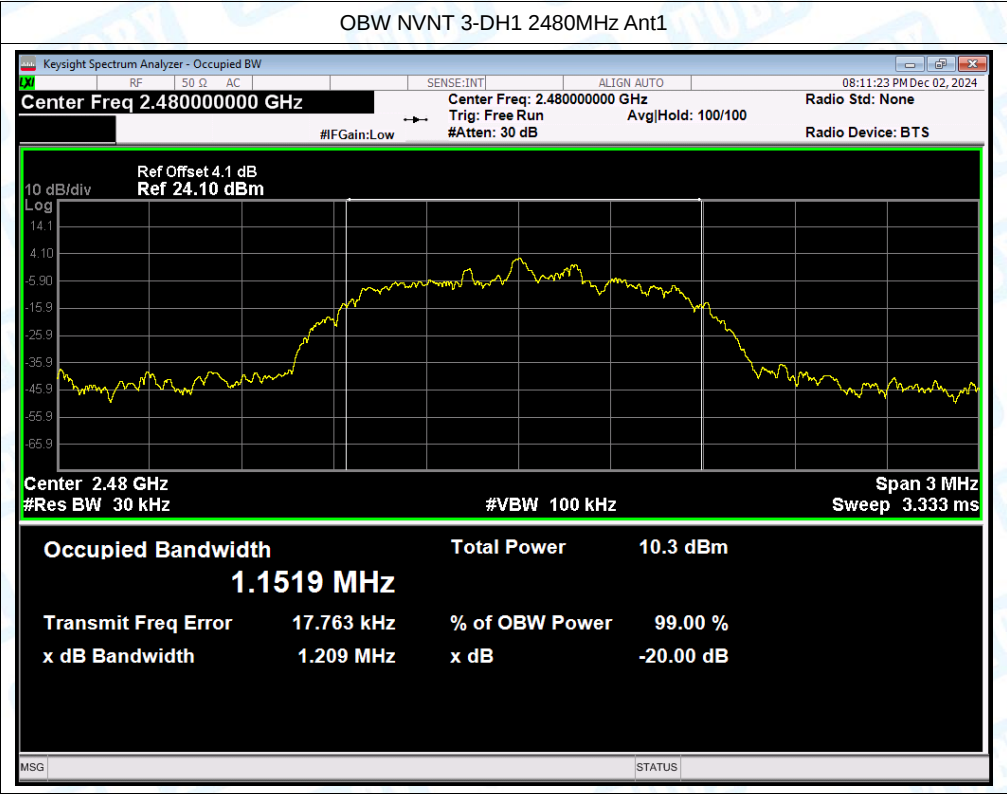


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



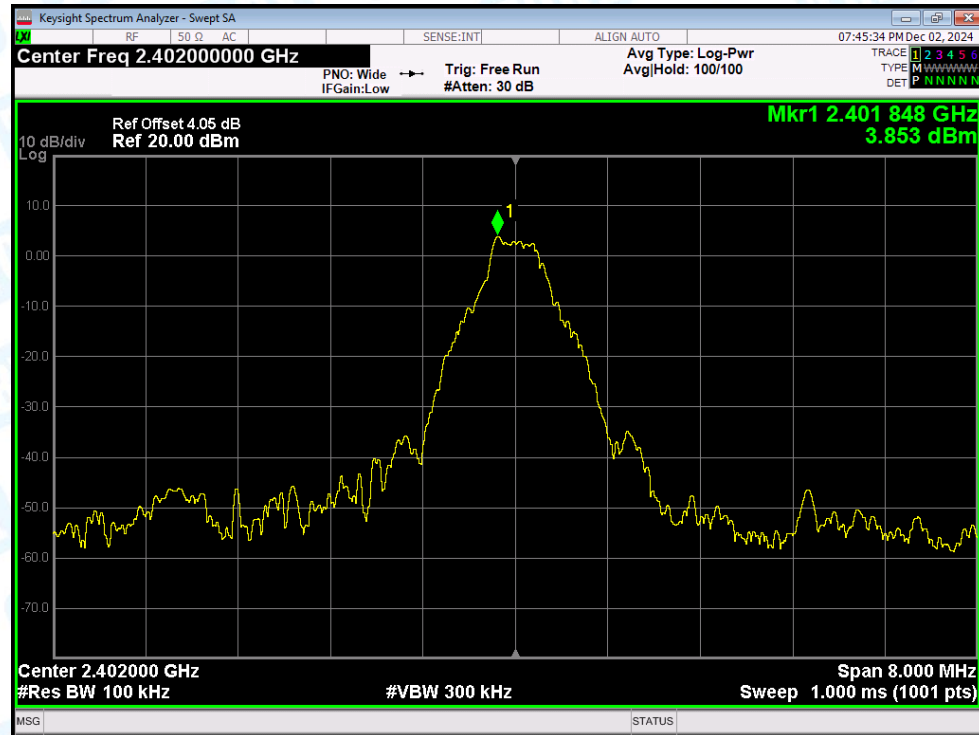


5. Band Edge

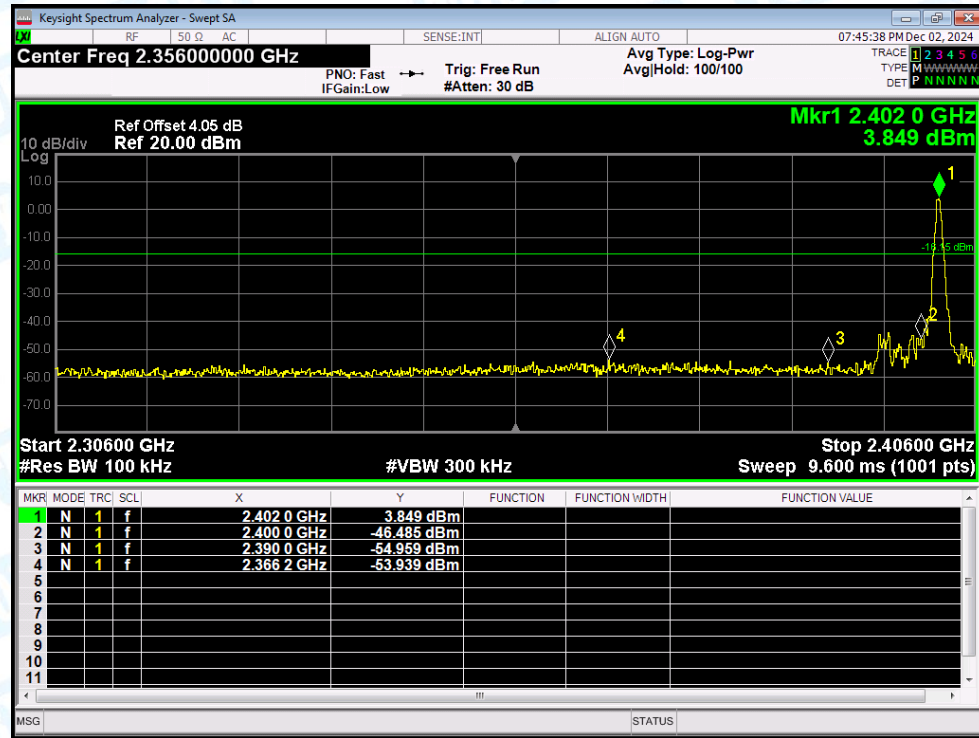
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.79	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-52.65	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-57.88	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.74	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-57.7	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-53.75	-20	Pass

Test Graphs

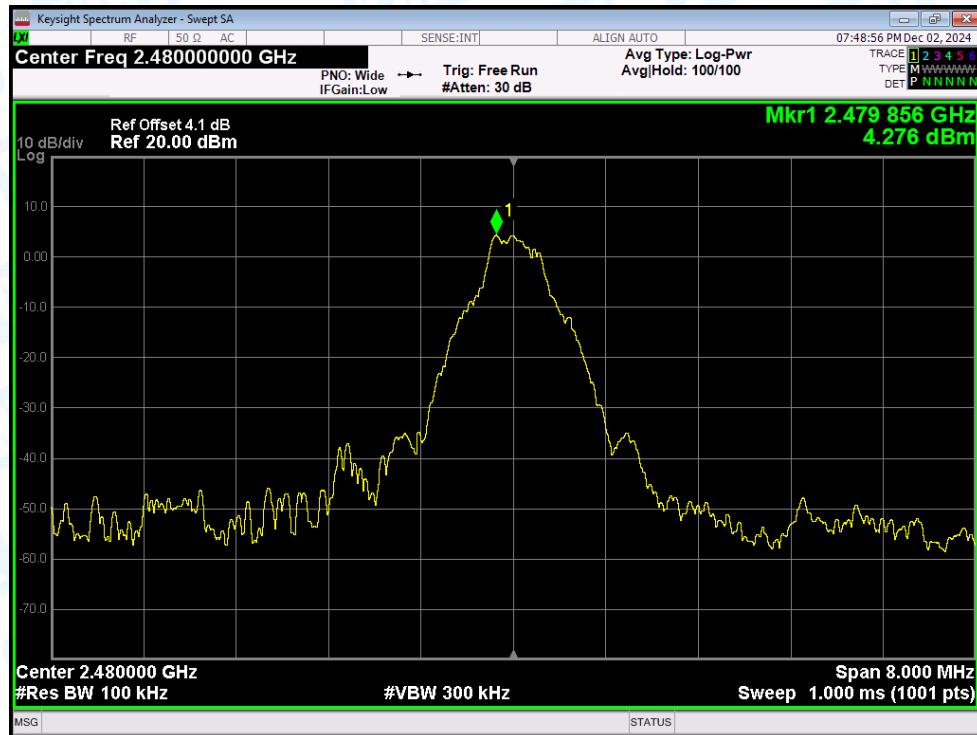
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



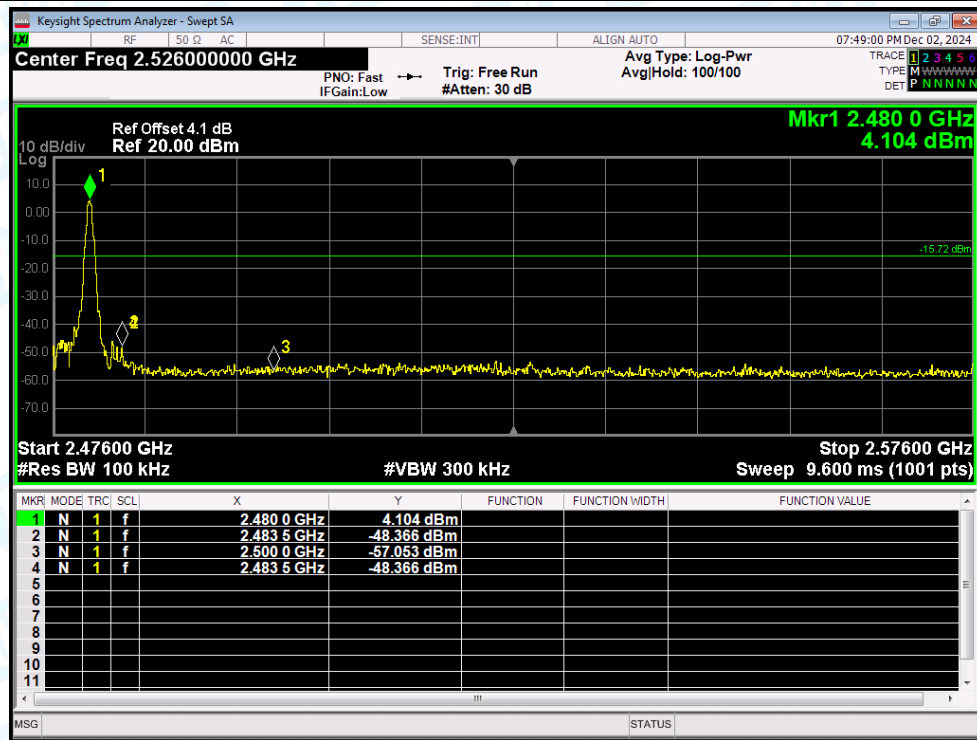
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



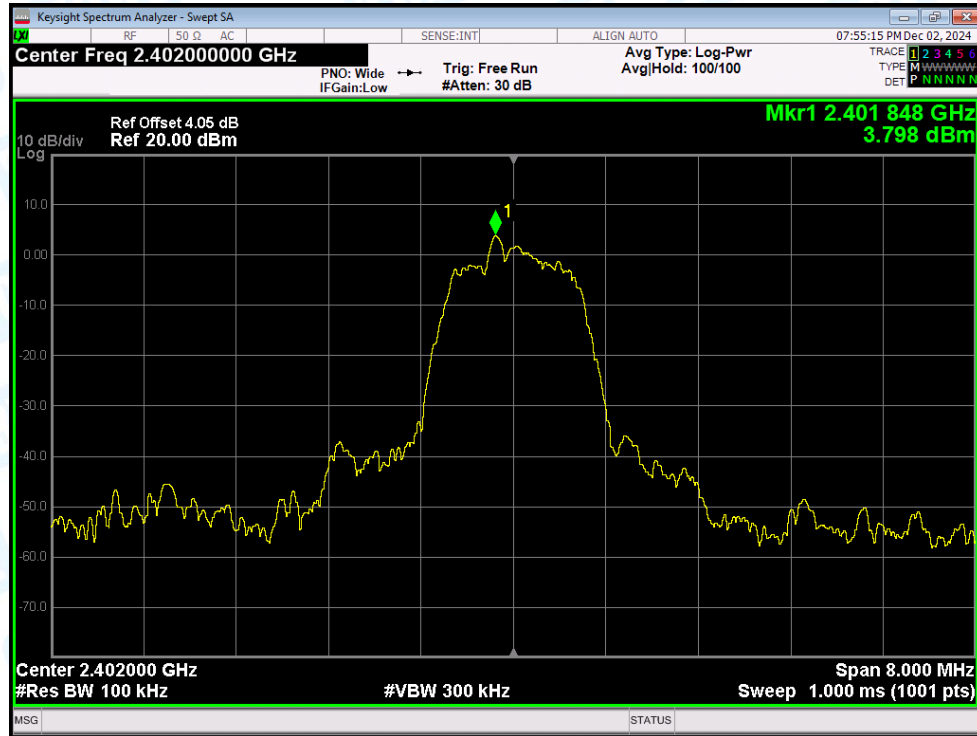
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



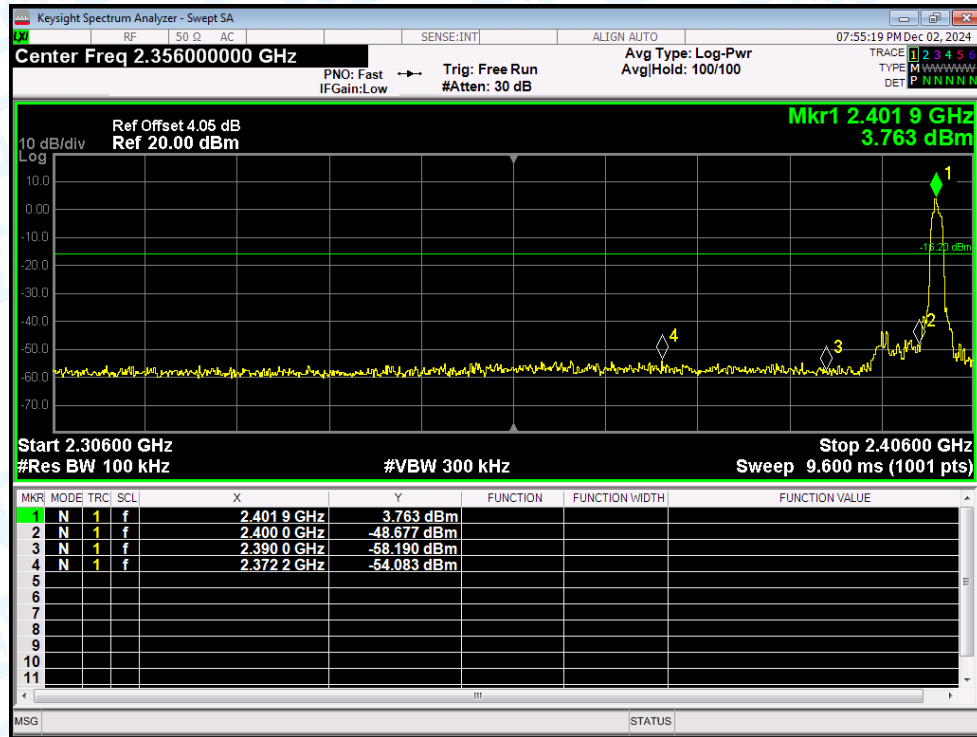
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



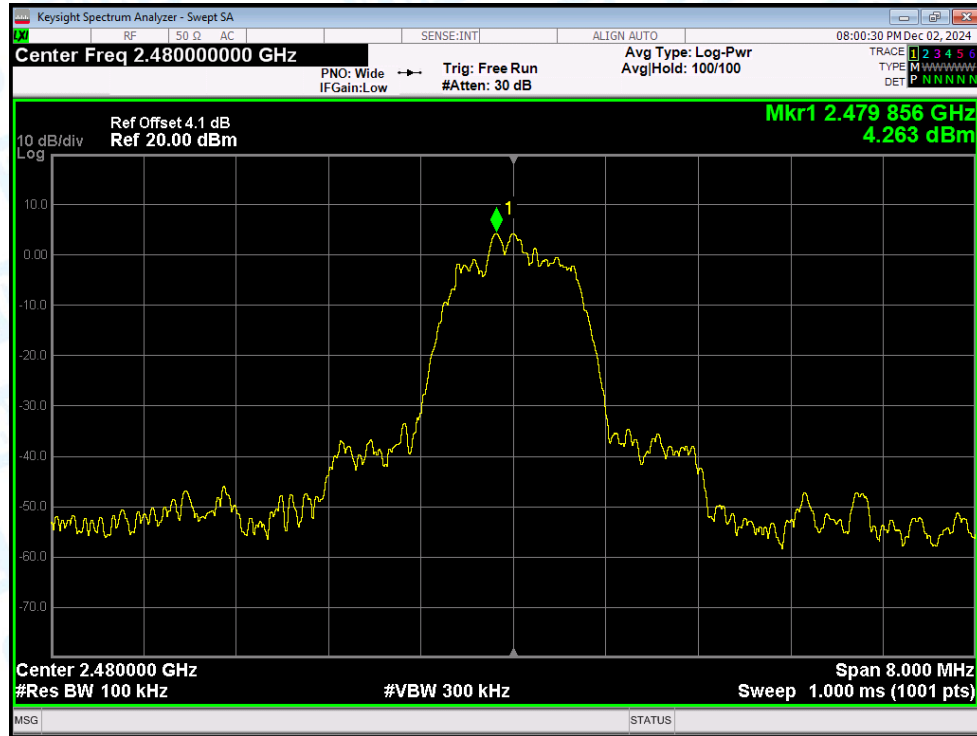
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



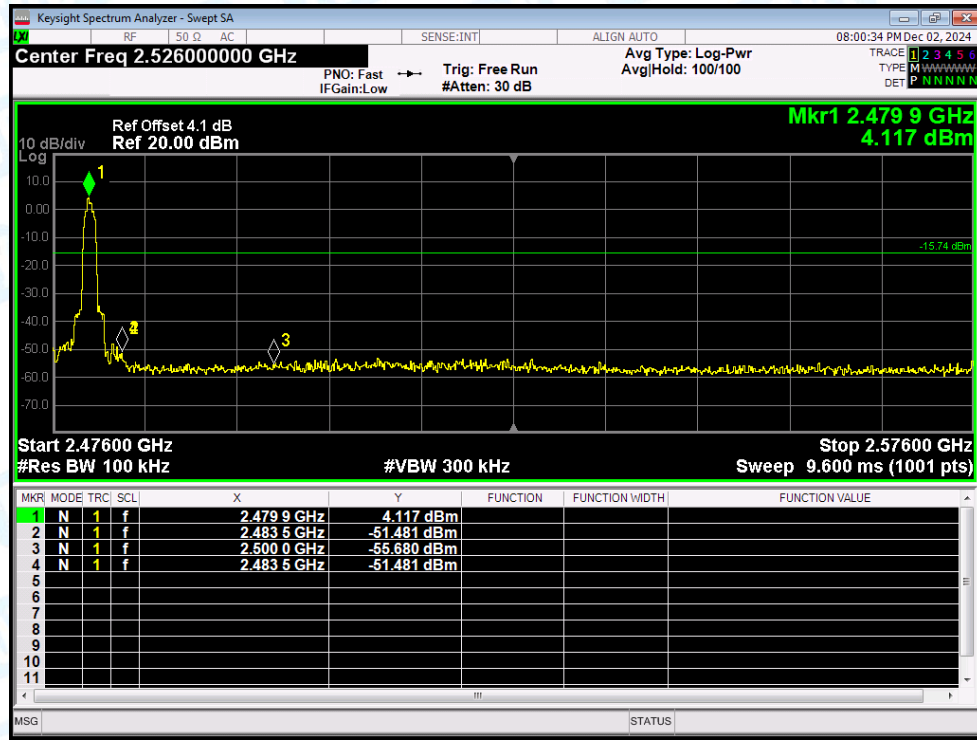
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



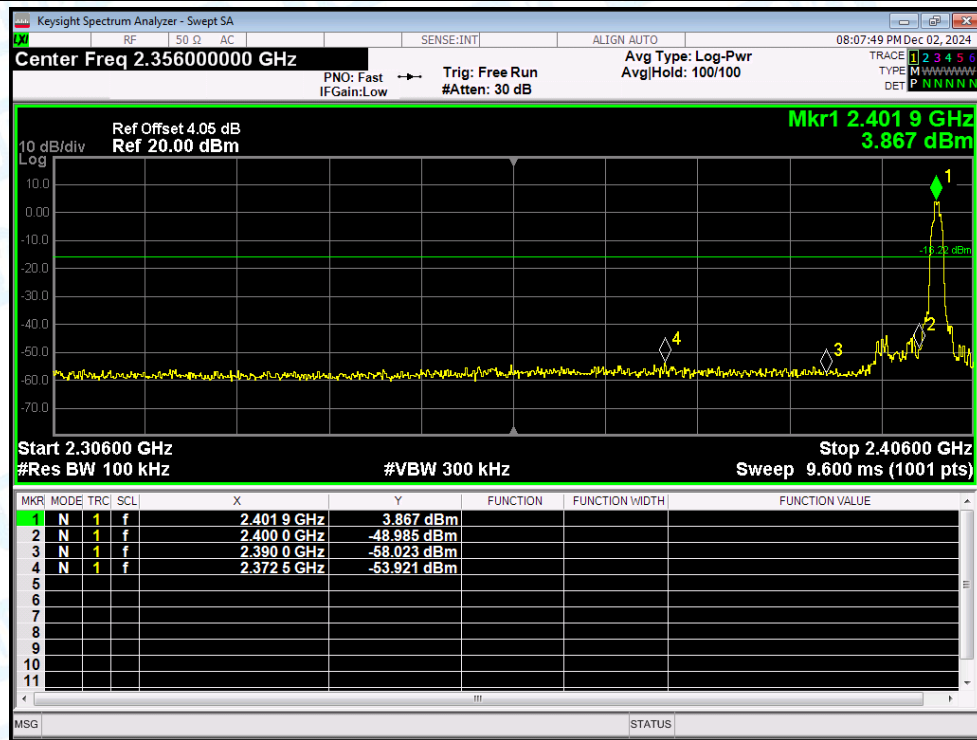
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



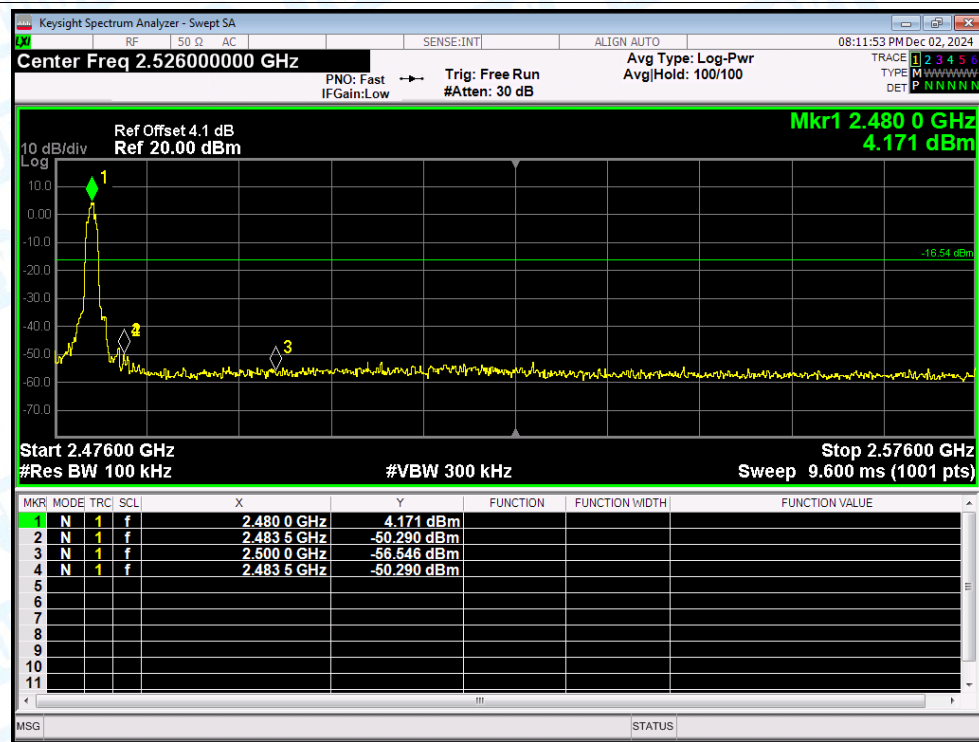
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

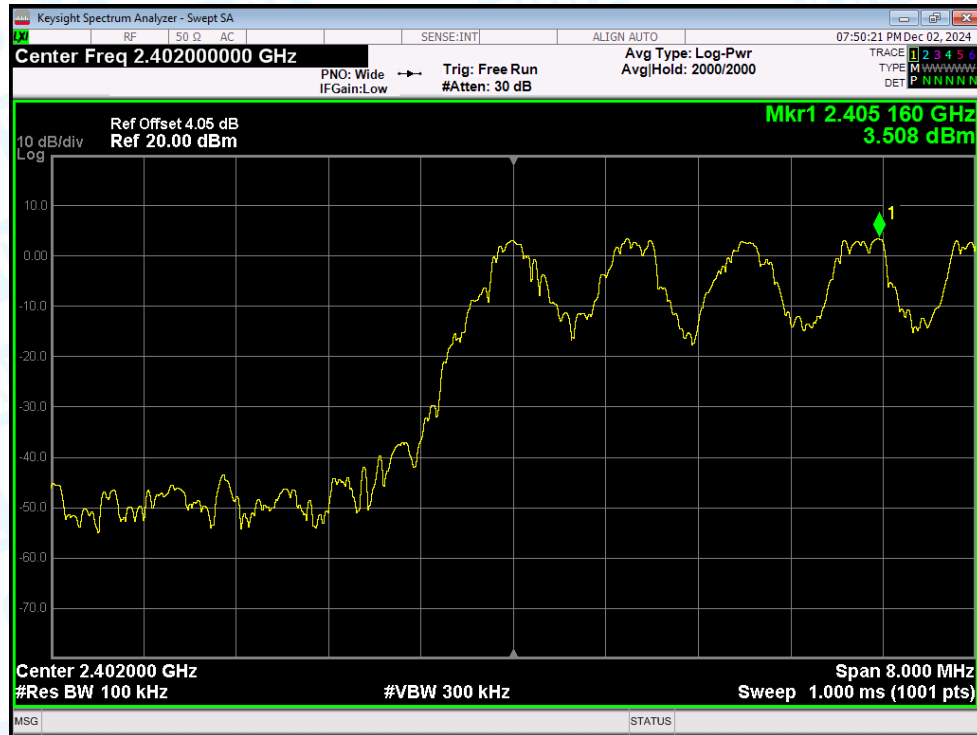


6. Band Edge(Hopping)

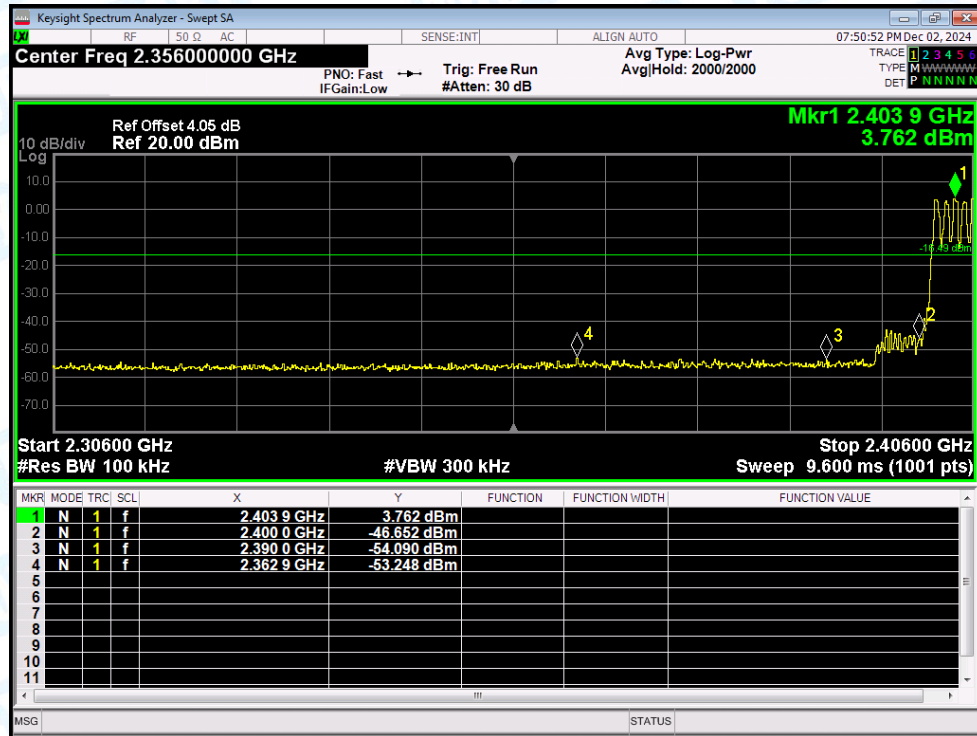
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.76	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-54.64	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-56.9	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-56.87	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-57.3	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-56.57	-20	Pass

Test Graphs

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



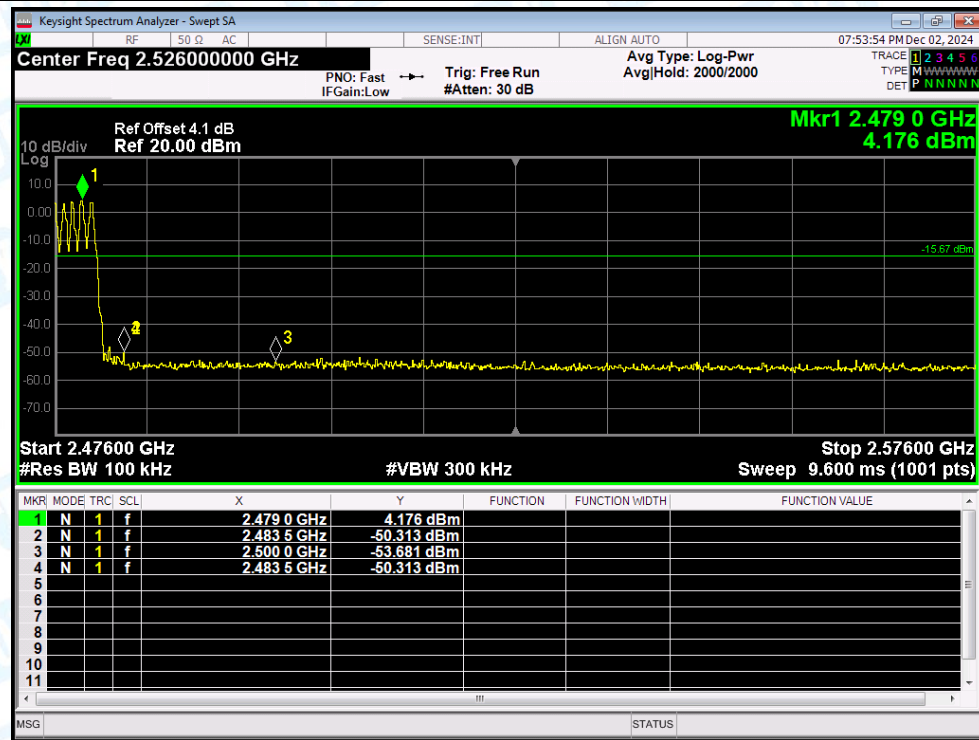
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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



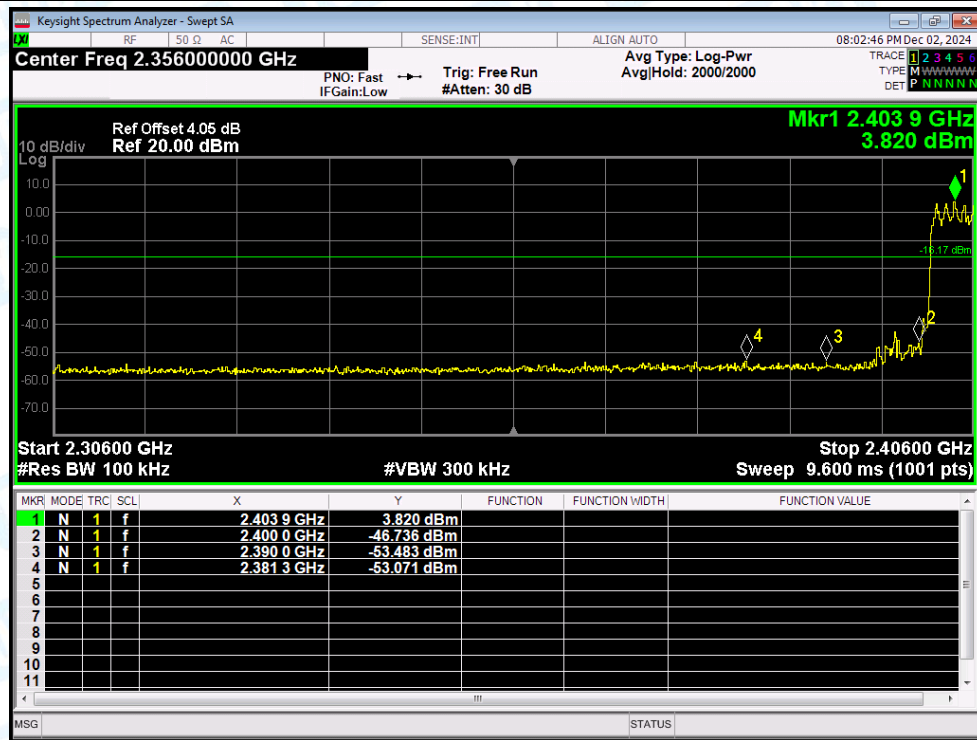
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



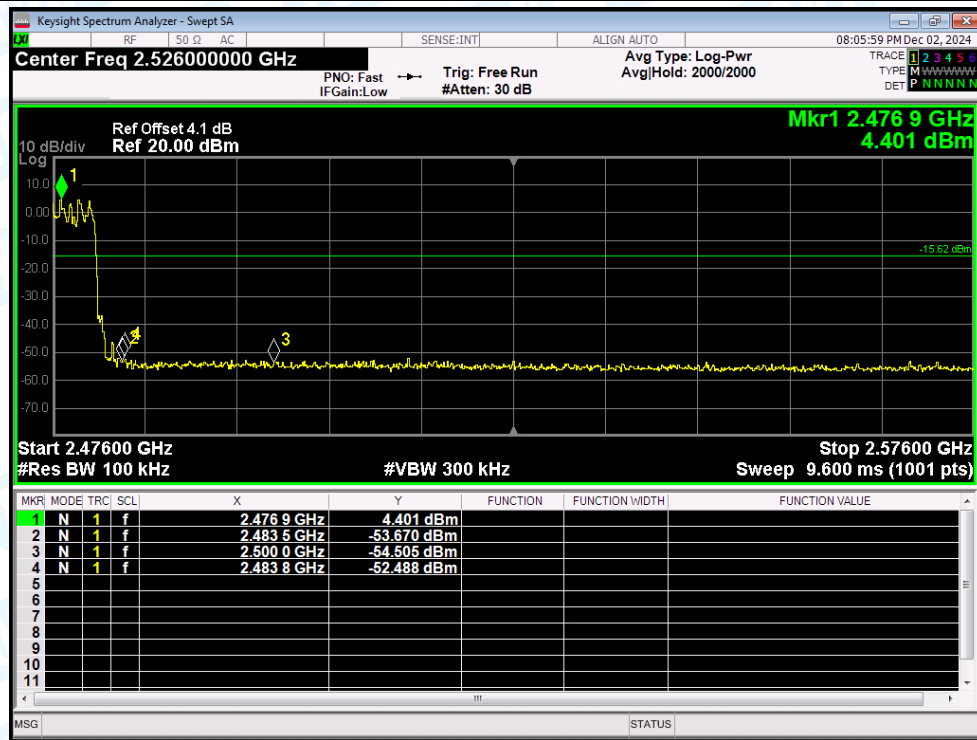
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



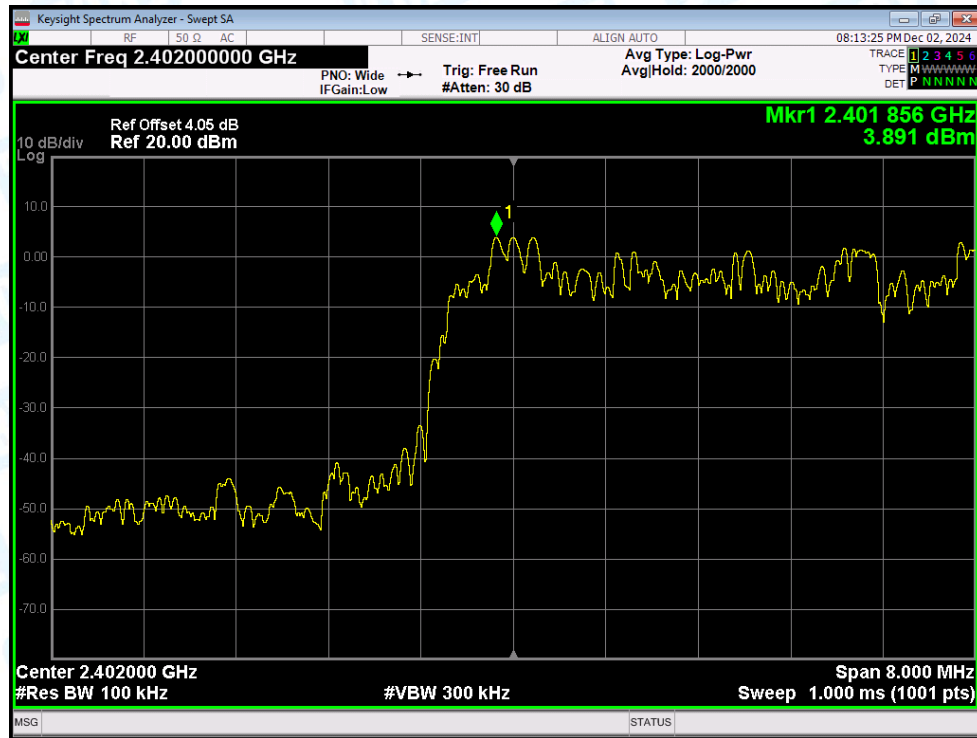
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



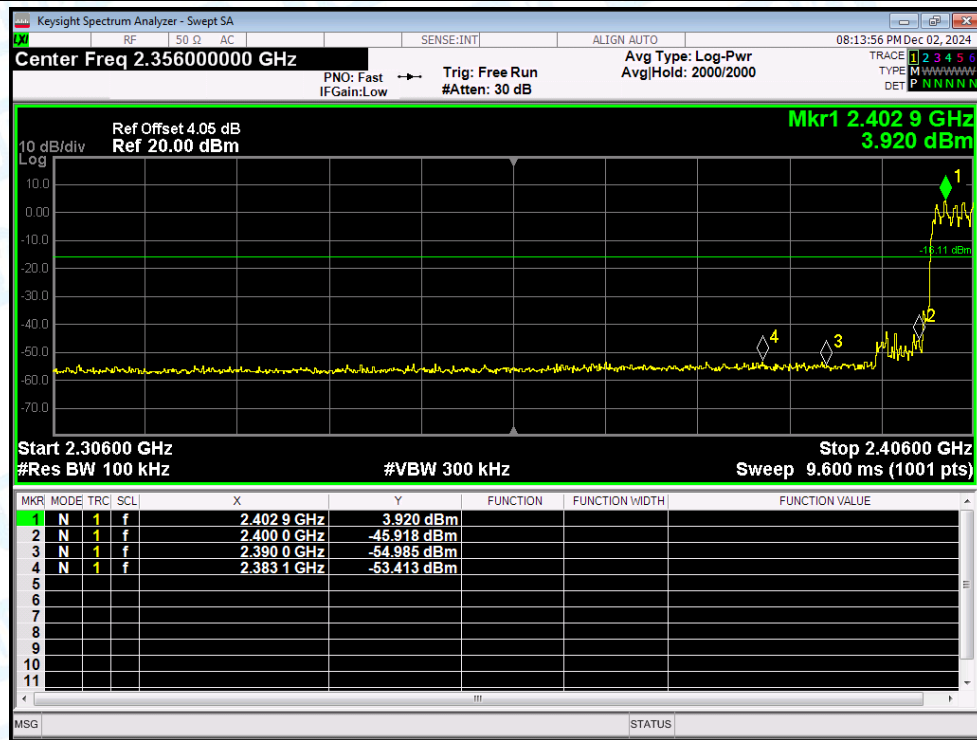
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



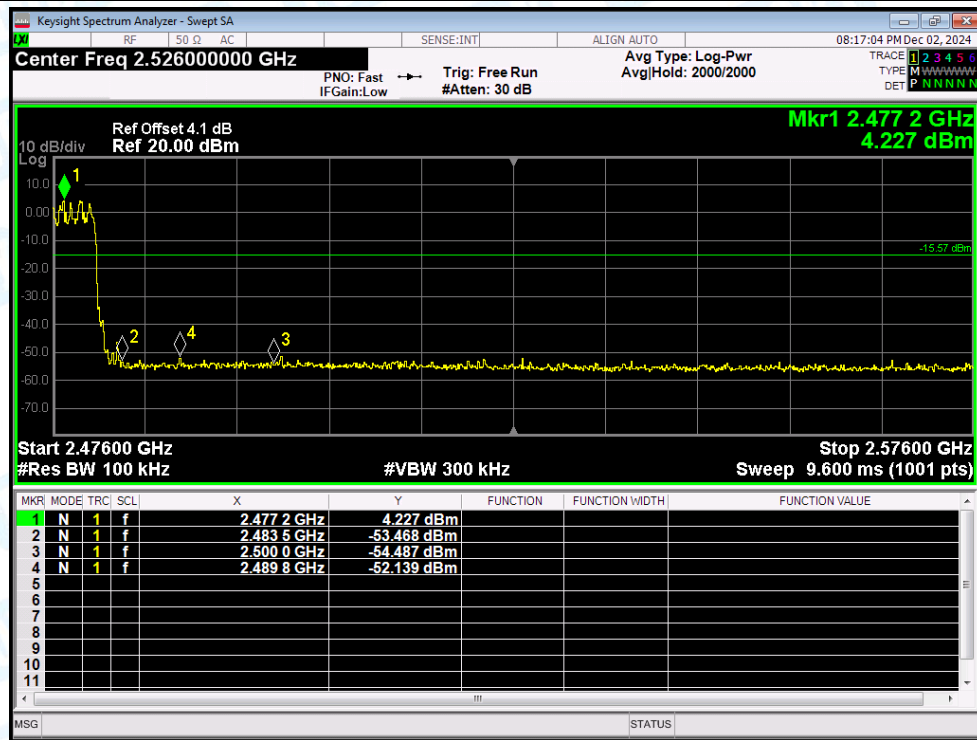
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

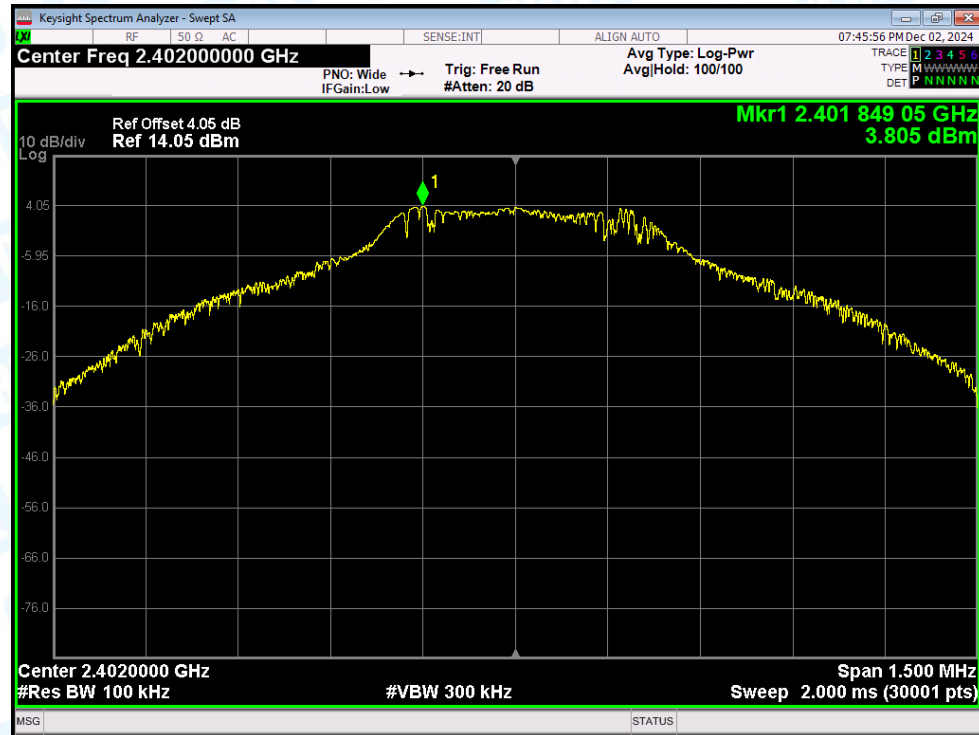


7. Conducted RF Spurious Emission

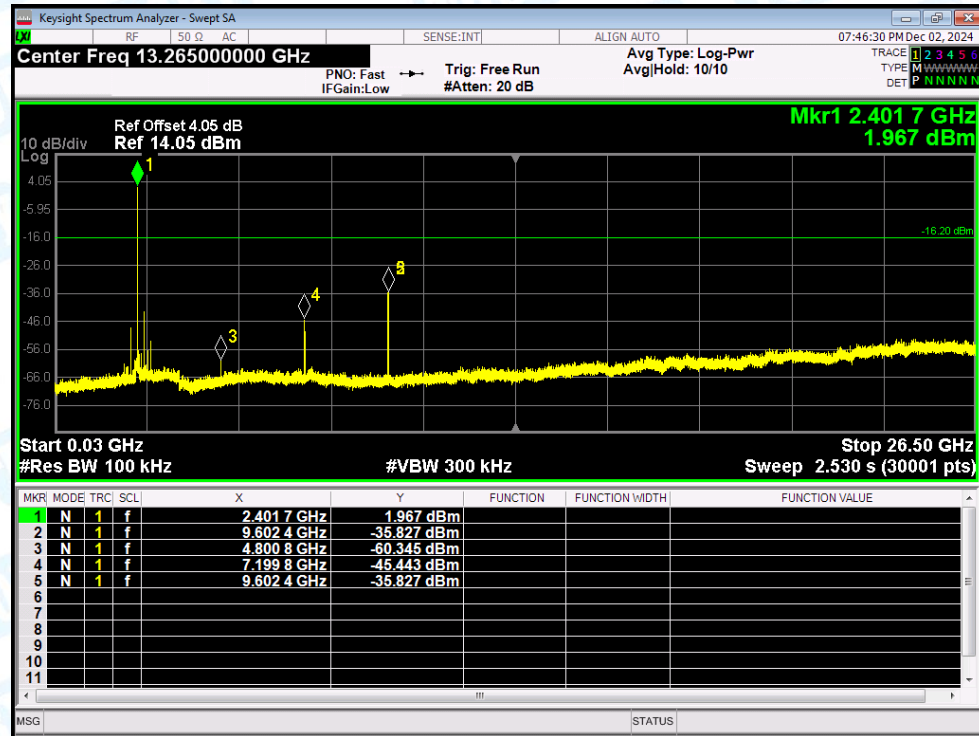
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-39.64	-20	Pass
NVNT	1-DH1	2441	Ant1	-41.61	-20	Pass
NVNT	1-DH1	2480	Ant1	-42.95	-20	Pass
NVNT	2-DH1	2402	Ant1	-39.31	-20	Pass
NVNT	2-DH1	2441	Ant1	-41.57	-20	Pass
NVNT	2-DH1	2480	Ant1	-42.58	-20	Pass
NVNT	3-DH1	2402	Ant1	-39.12	-20	Pass
NVNT	3-DH1	2441	Ant1	-41.17	-20	Pass
NVNT	3-DH1	2480	Ant1	-42.79	-20	Pass

Test Graphs

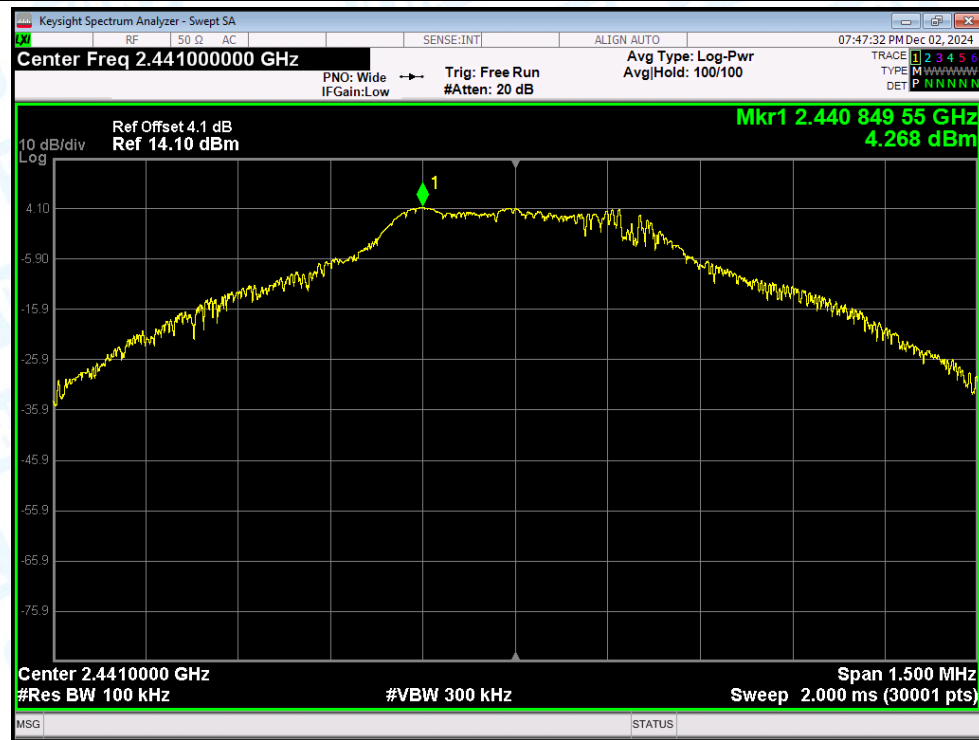
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



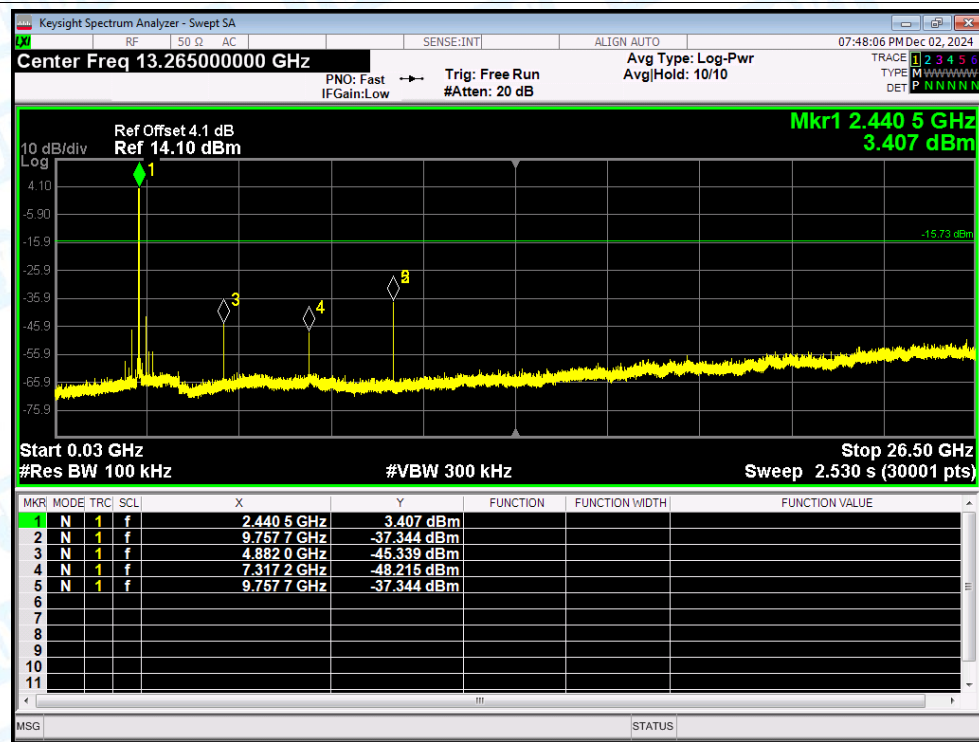
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



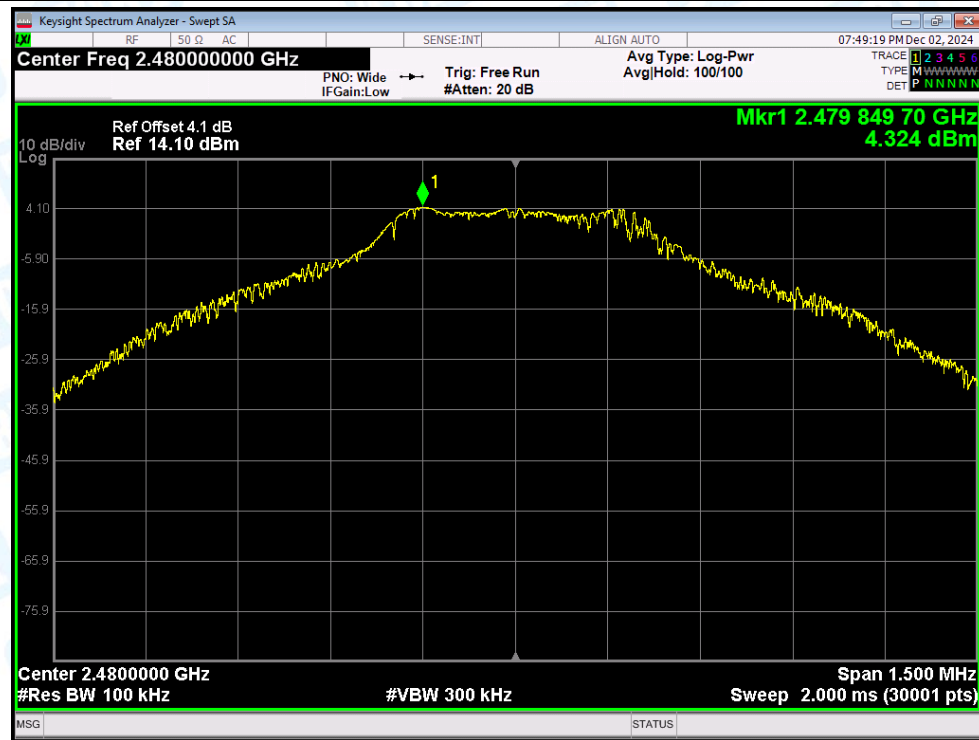
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



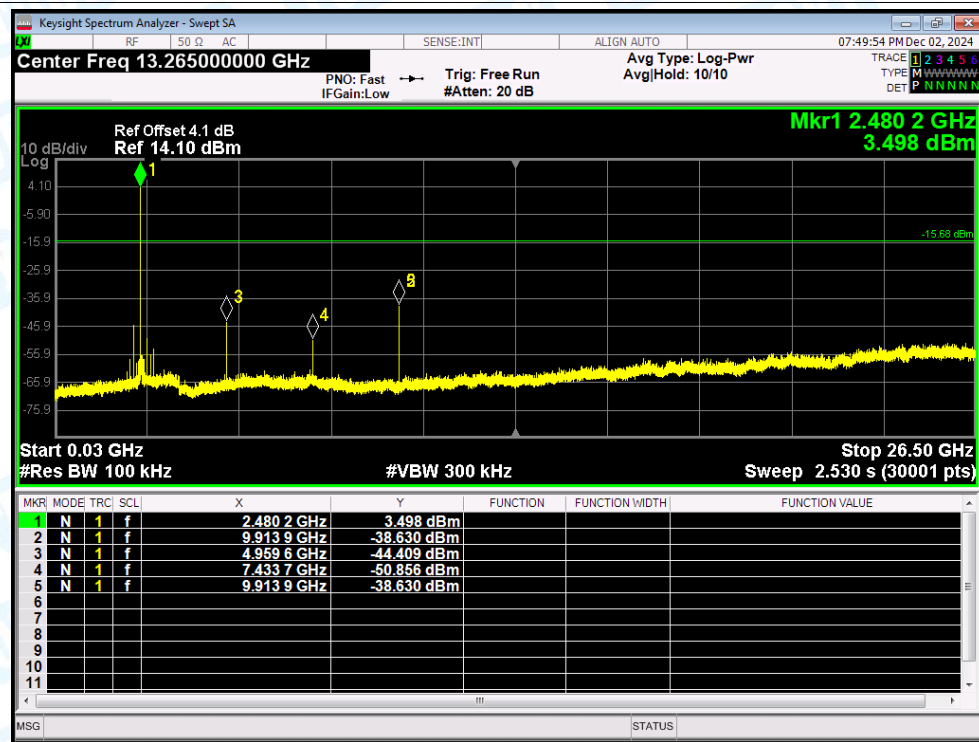
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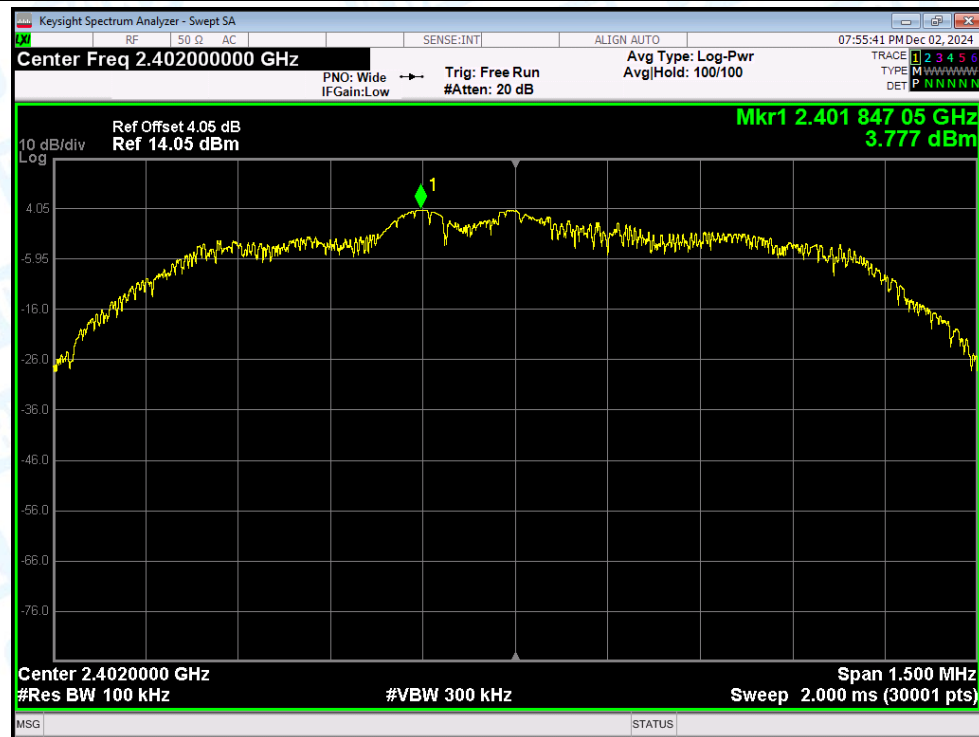
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



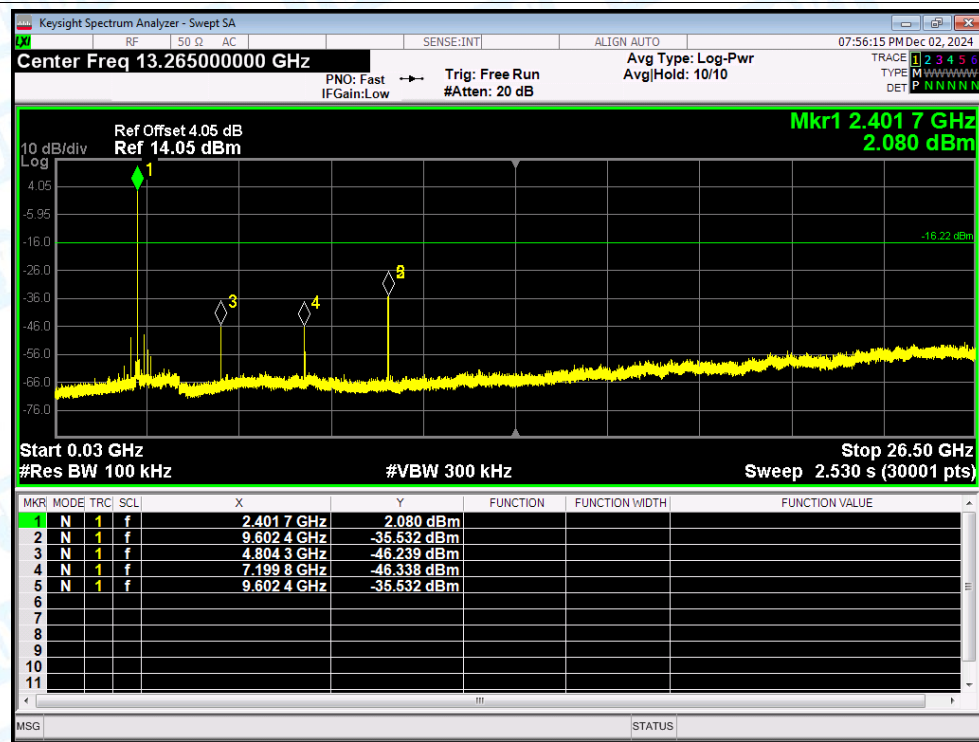
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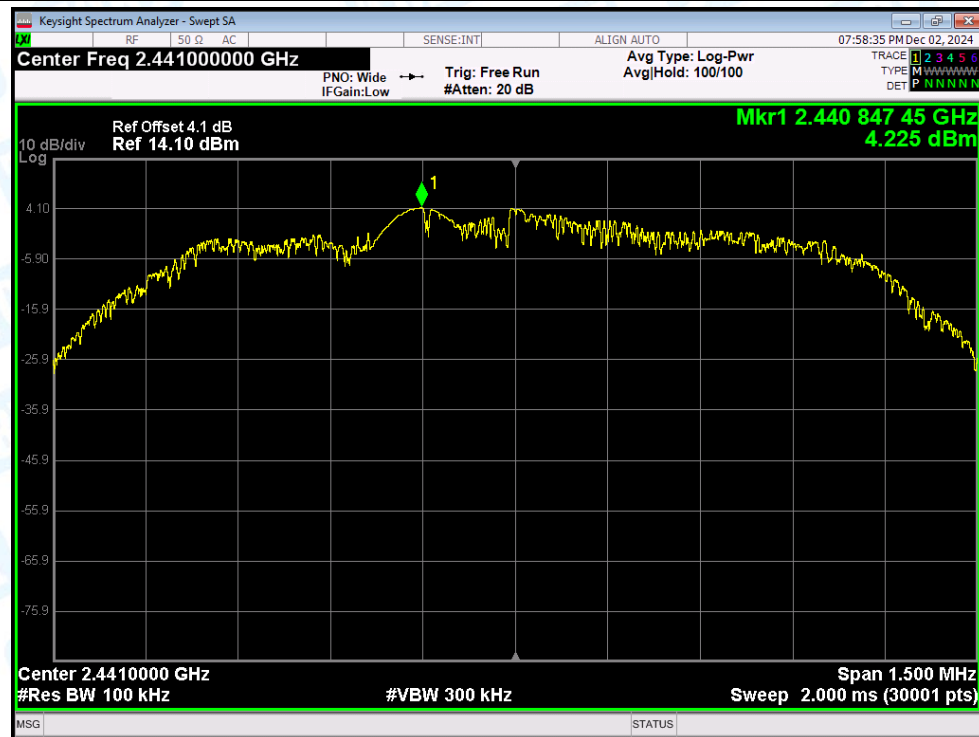
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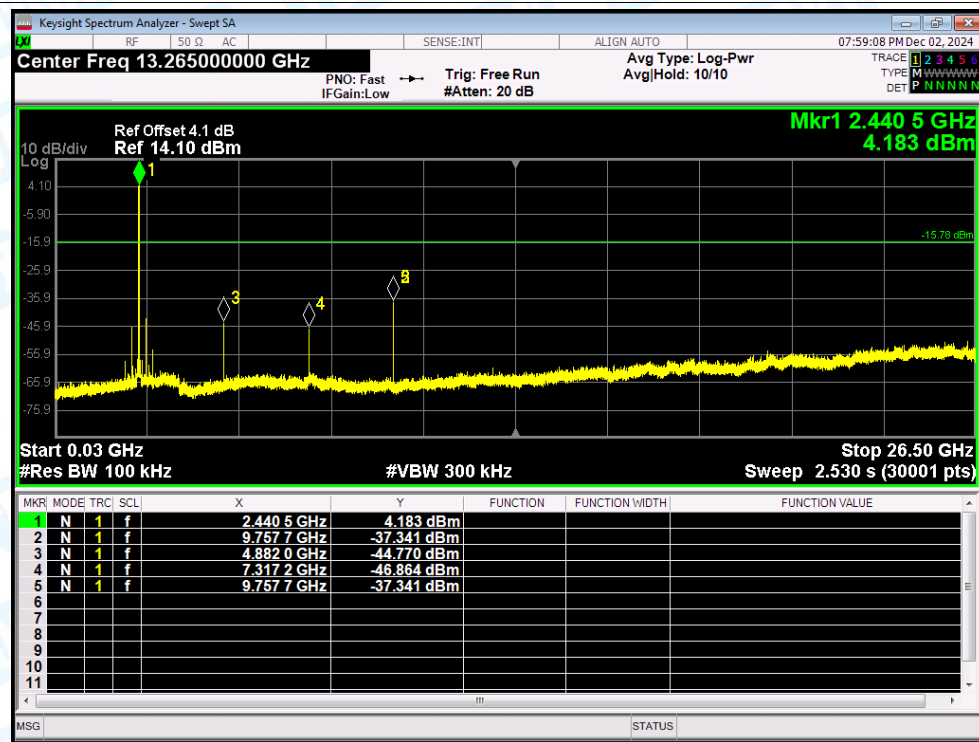
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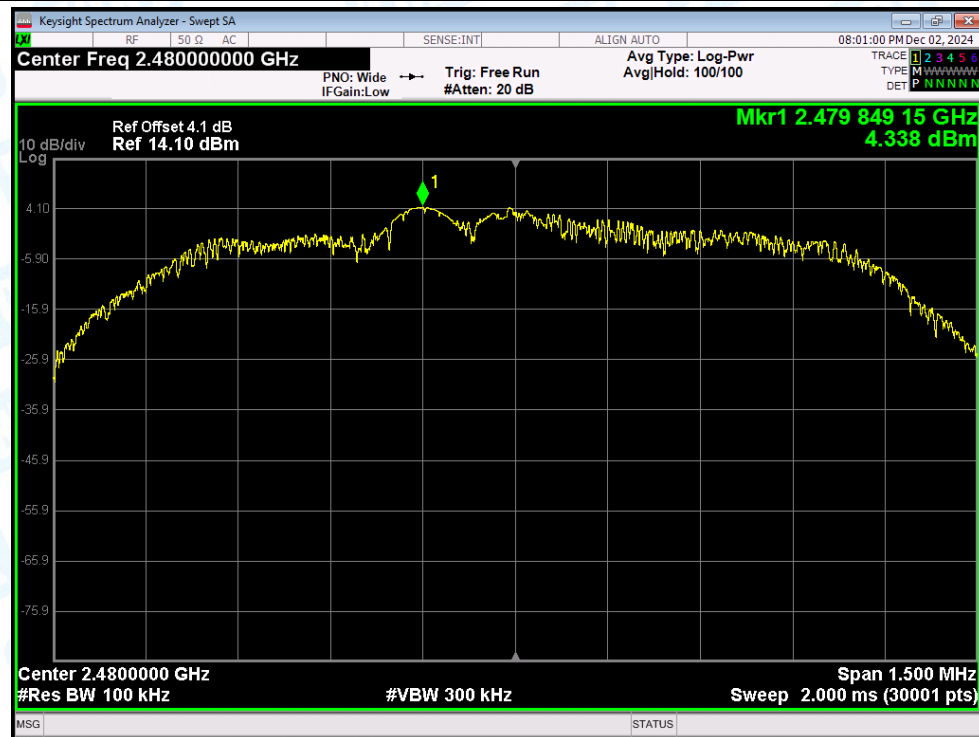
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



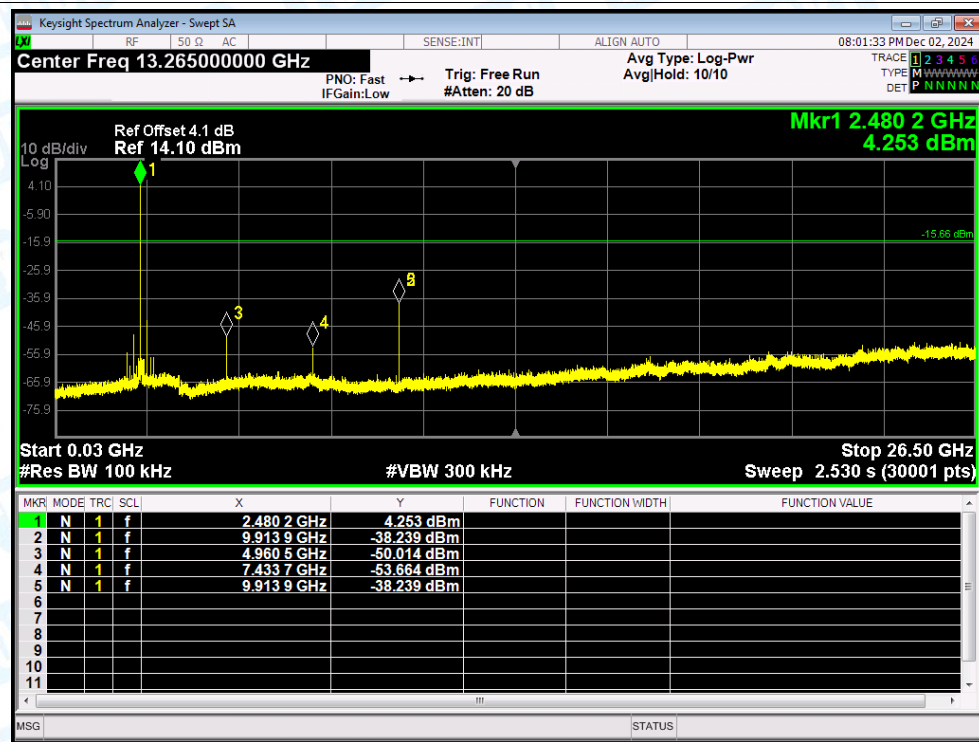
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



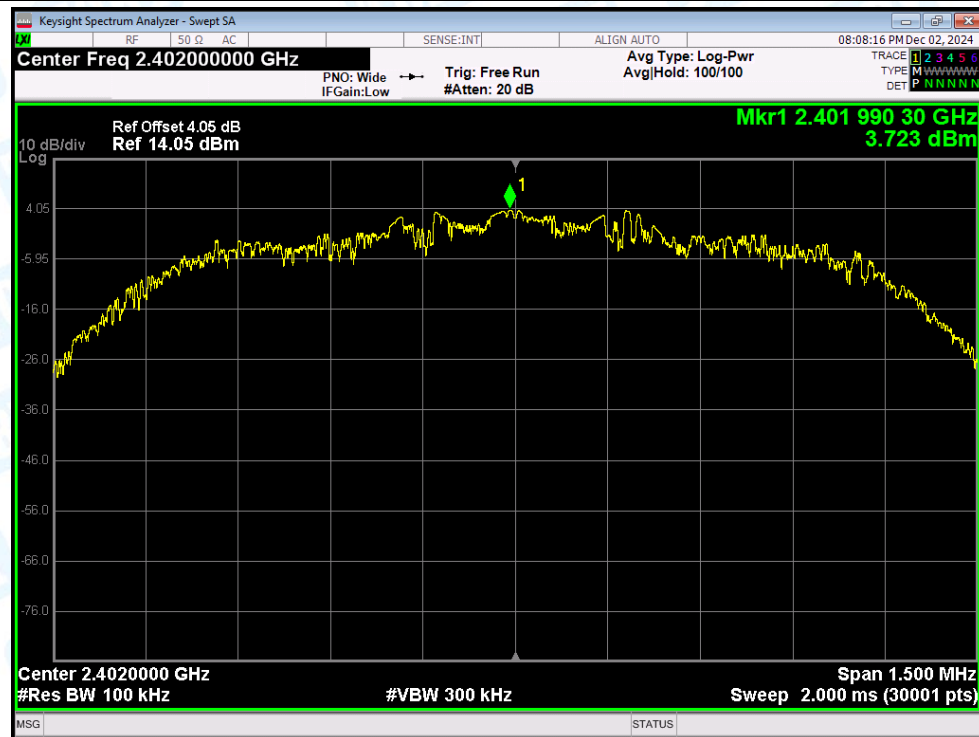
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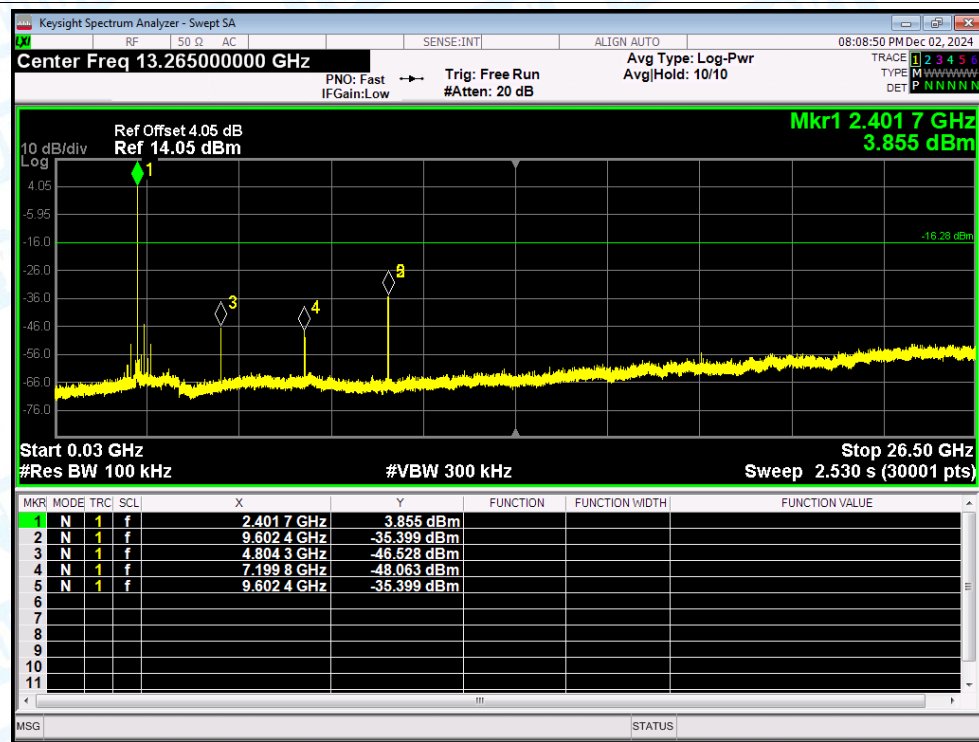
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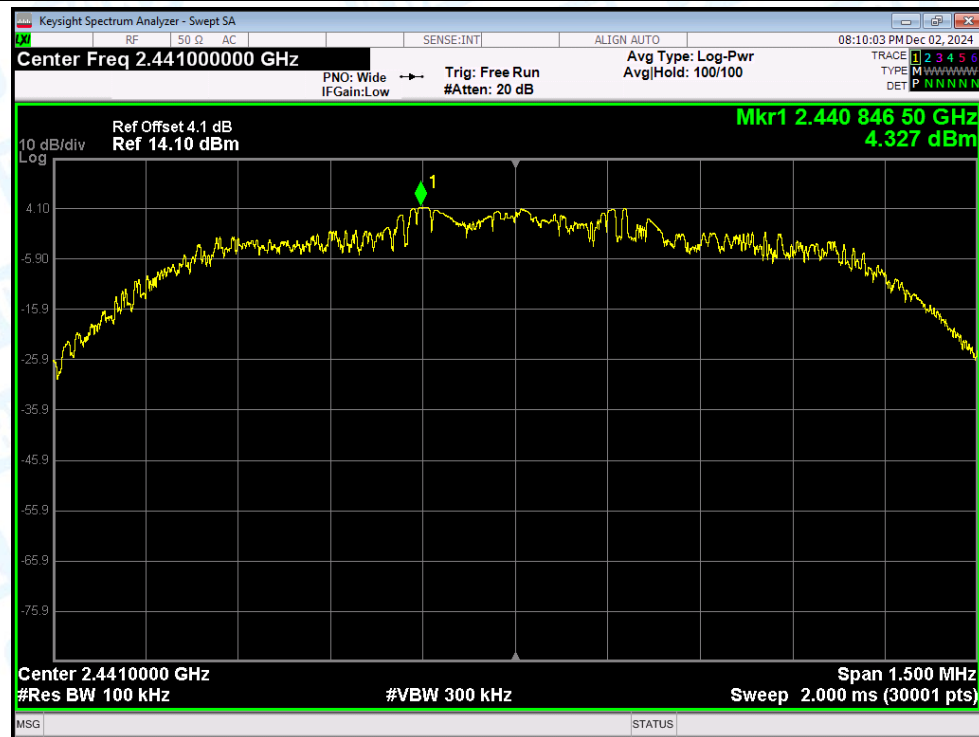
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



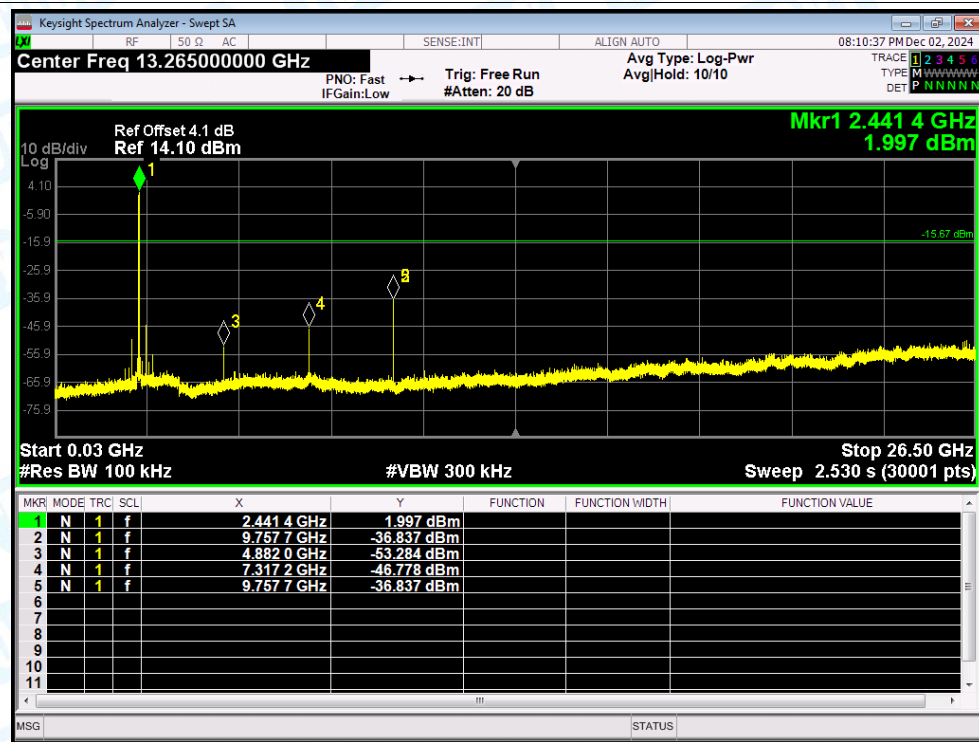
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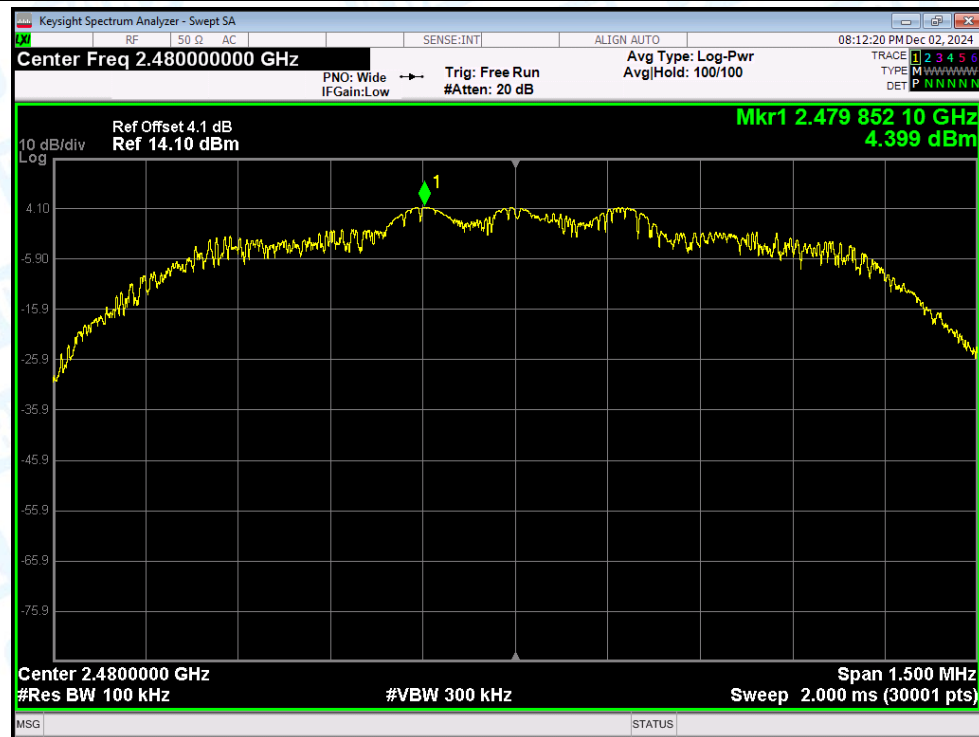
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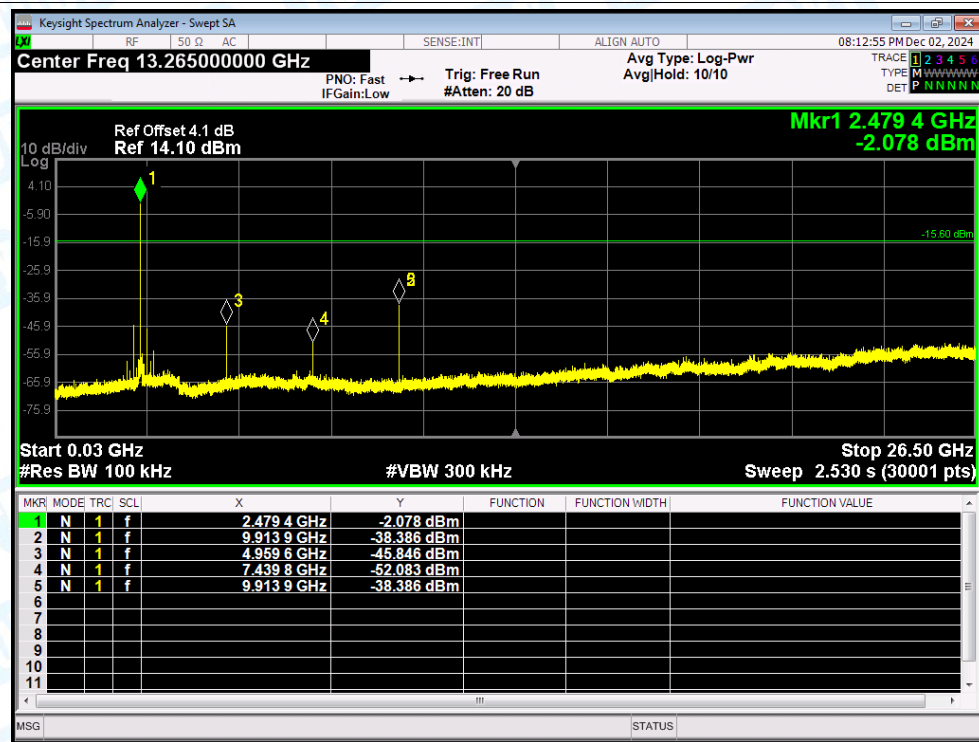
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

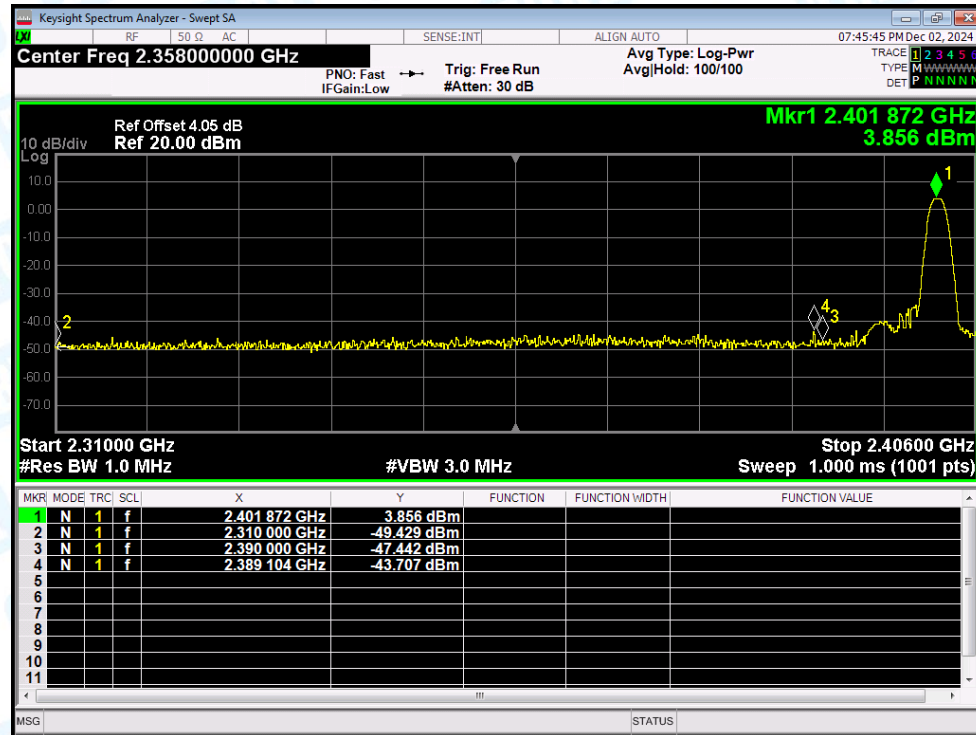


8. Restrict Band

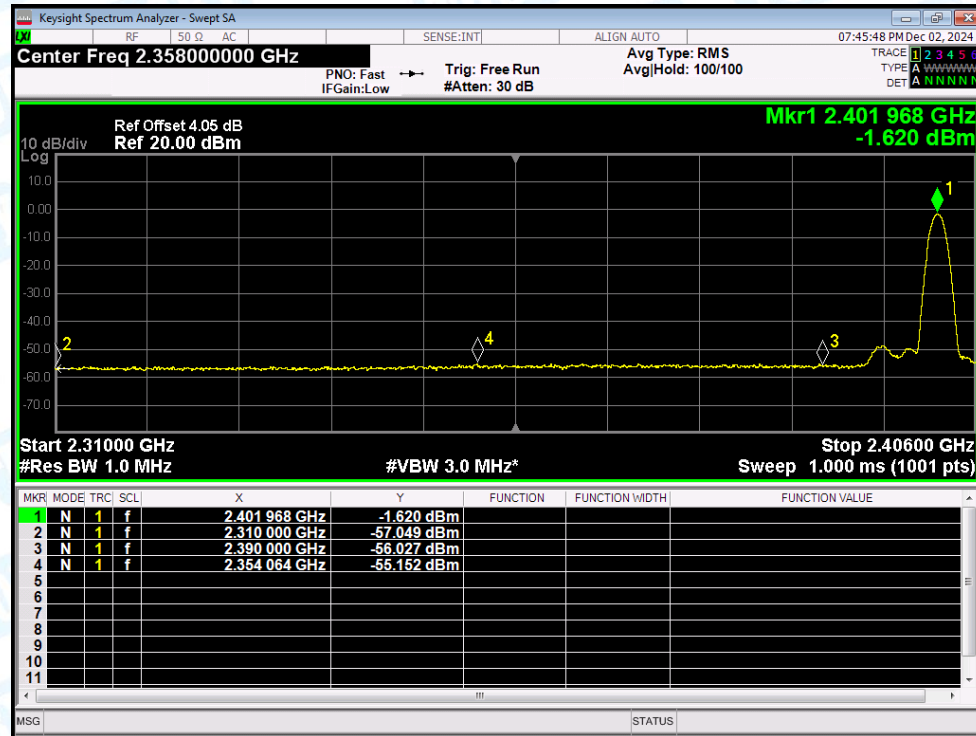
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-49.43	2	-	47.83	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-57.05	2	5.17	45.38	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2389.104	-43.71	2	-	53.55	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2354.064	-55.15	2	5.17	47.28	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.44	2	-	49.82	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.03	2	5.17	46.4	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-45.66	2	-	51.6	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-52.73	2	5.17	49.7	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2484.736	-40.22	2	-	57.04	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.536	-52.62	2	5.17	49.81	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.61	2	-	49.65	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.09	2	5.17	46.34	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.56	2	-	48.7	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.87	2	5.06	45.45	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2357.616	-44.88	2	-	52.38	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2363.952	-54.59	2	5.06	47.73	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.8	2	-	49.46	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.79	2	5.06	46.53	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-44.77	2	-	52.49	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-53.81	2	5.06	48.51	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2485.672	-42.48	2	-	54.78	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.584	-52.93	2	5.06	49.39	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-44.86	2	-	52.4	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.24	2	5.06	47.08	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-49.66	2	-	47.6	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.81	2	4.95	45.4	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2371.824	-44.45	2	-	52.81	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2363.28	-54.74	2	4.95	47.47	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.2	2	-	49.06	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.65	2	4.95	45.56	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-43.39	2	-	53.87	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-54.14	2	4.95	48.07	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.536	-42.71	2	-	54.55	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.656	-53.9	2	4.95	48.31	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-47.12	2	-	50.14	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-54.74	2	4.95	47.47	Average	54	Pass

Test Graphs

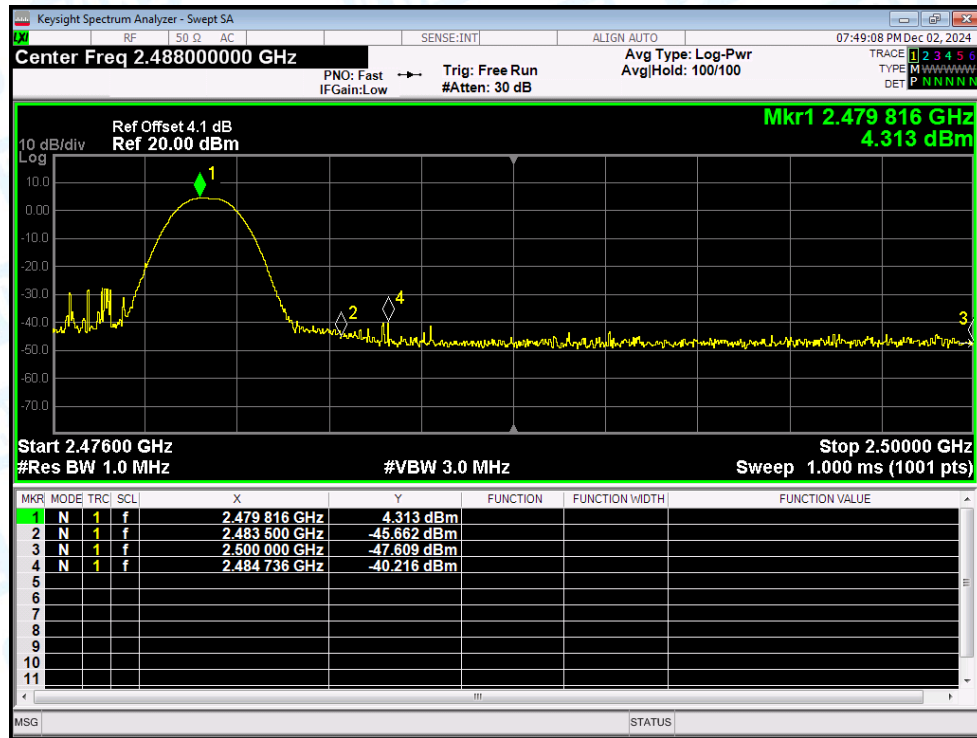
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



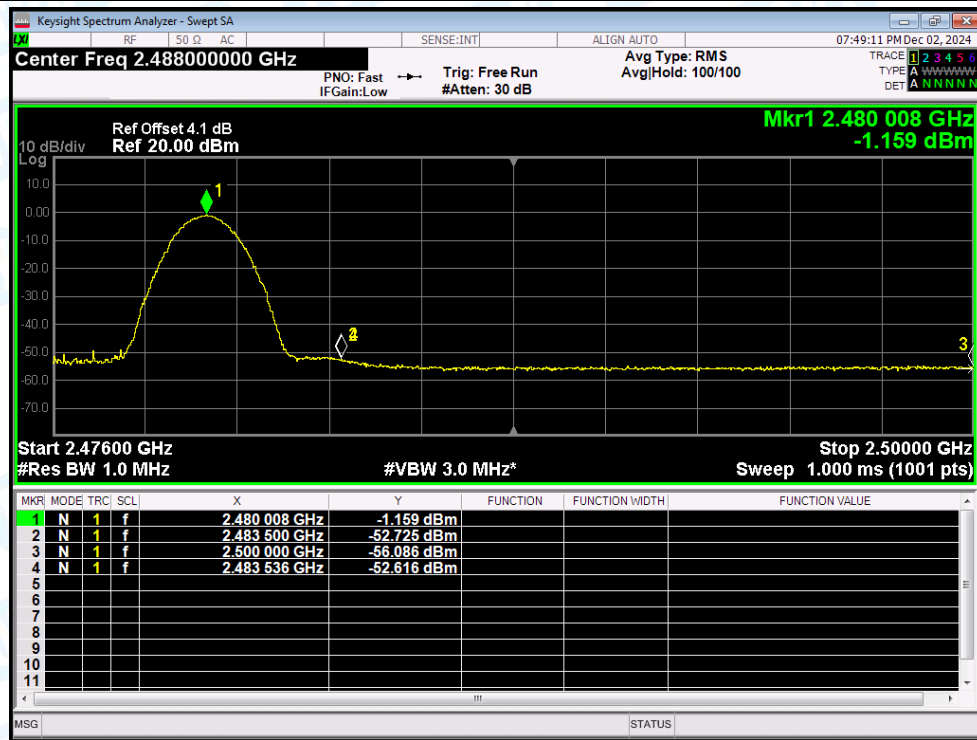
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



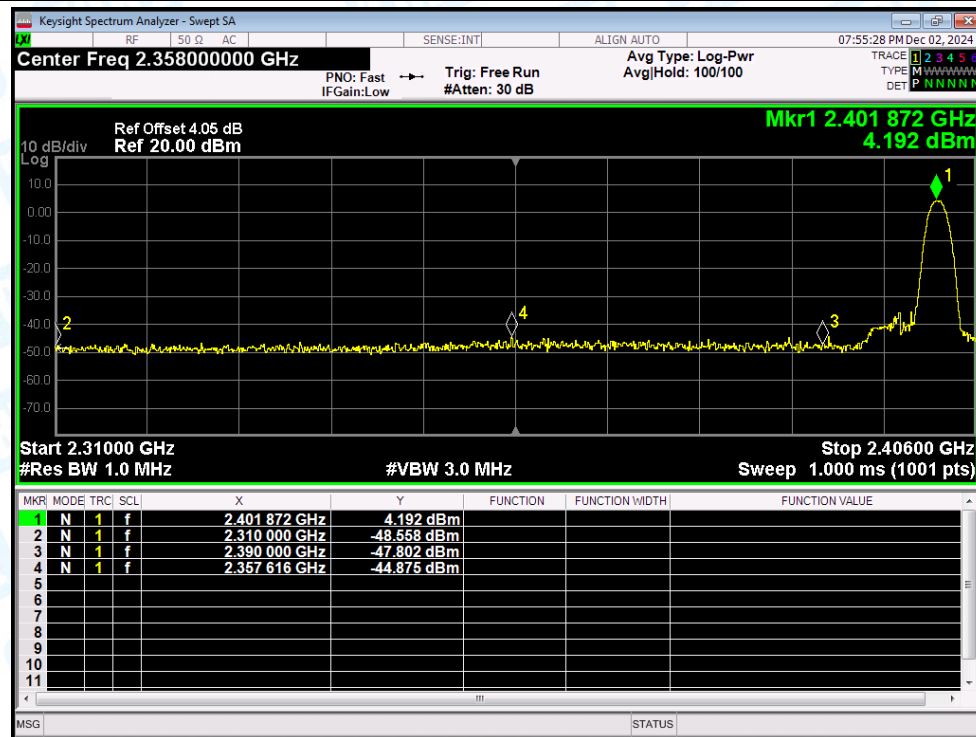
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



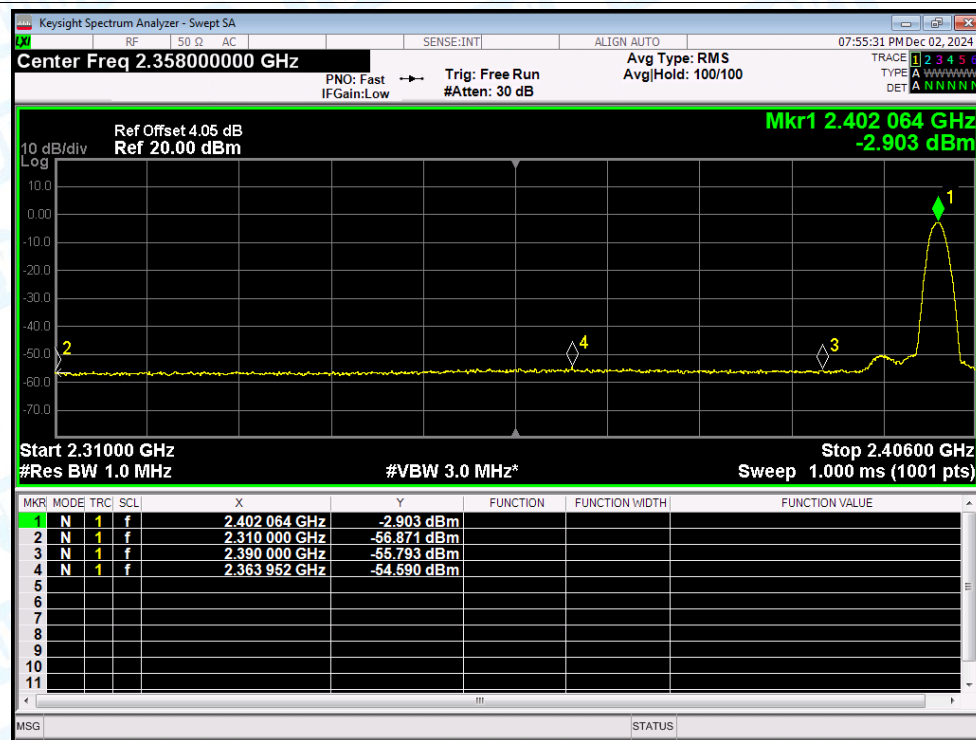
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



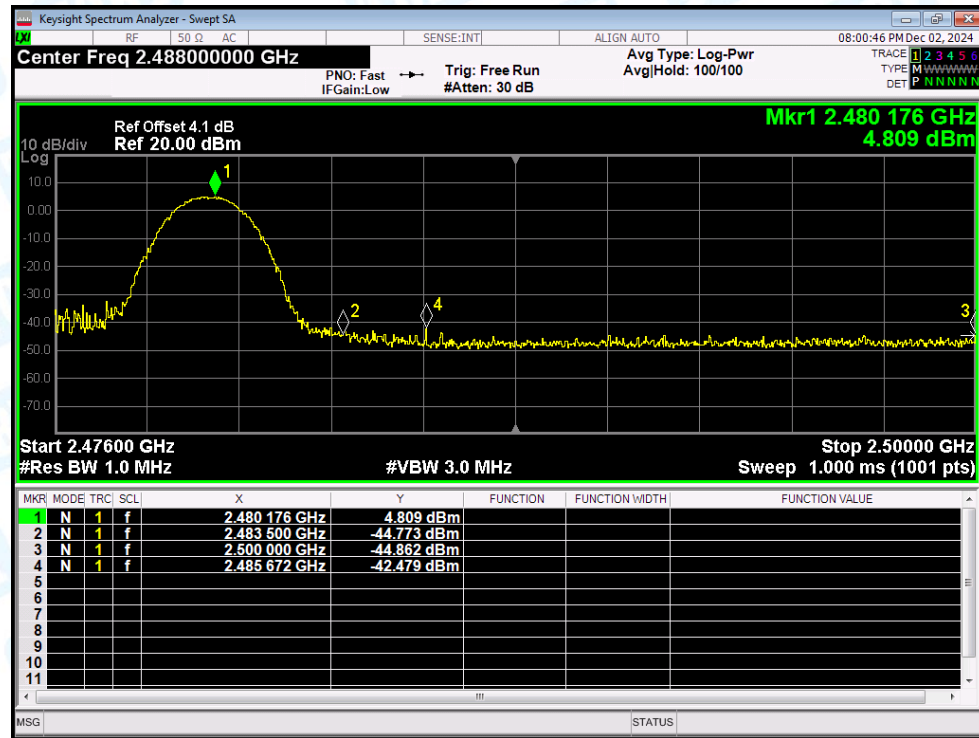
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



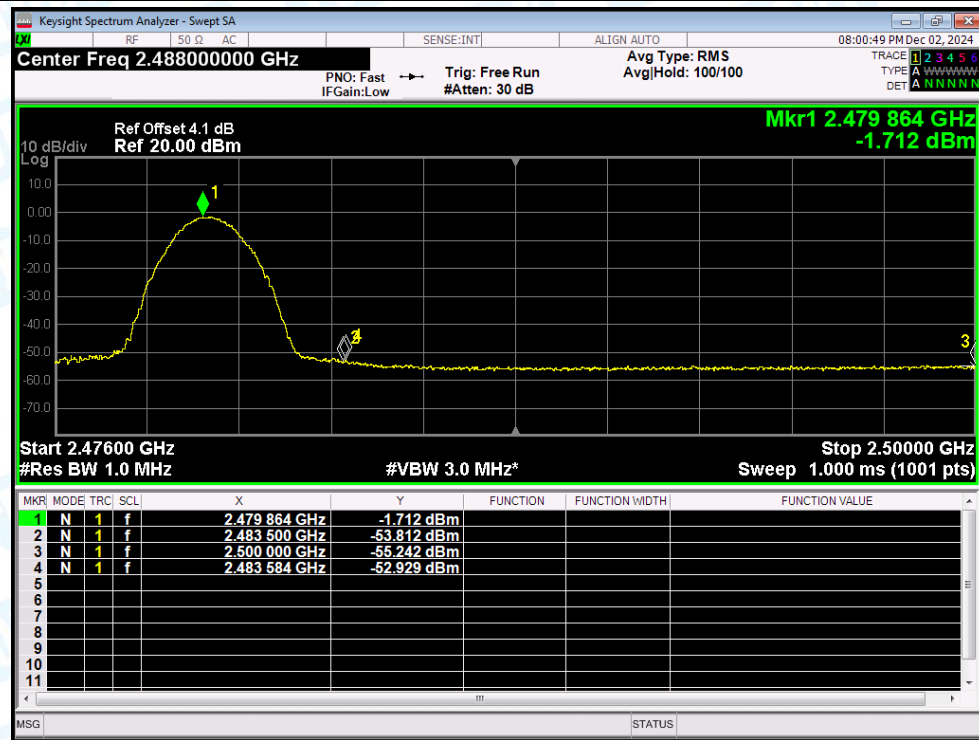
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



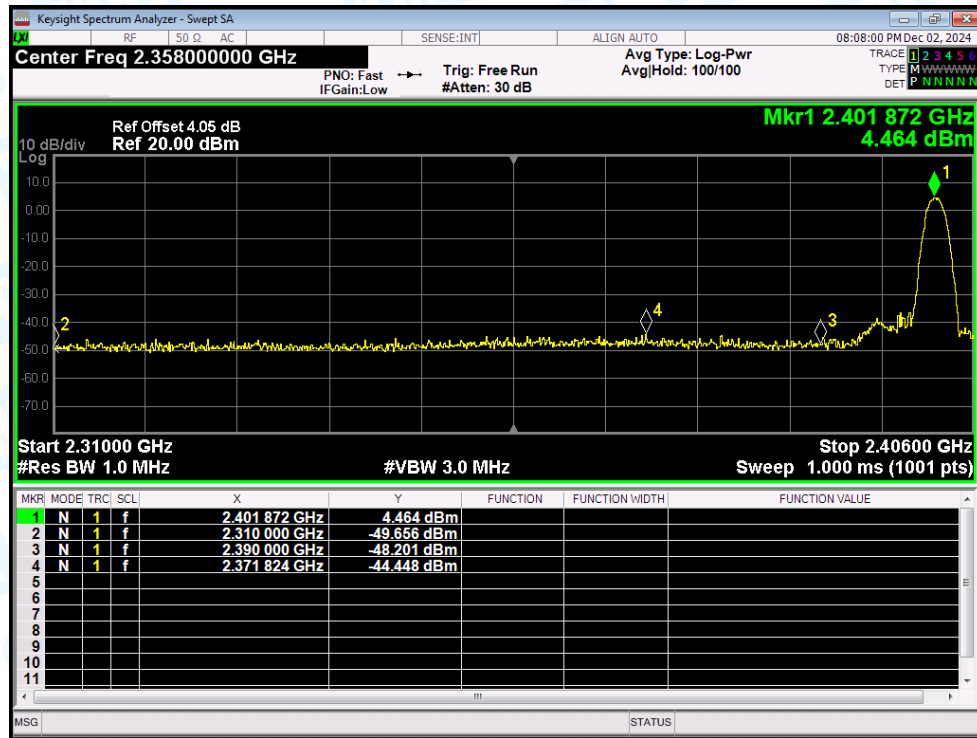
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



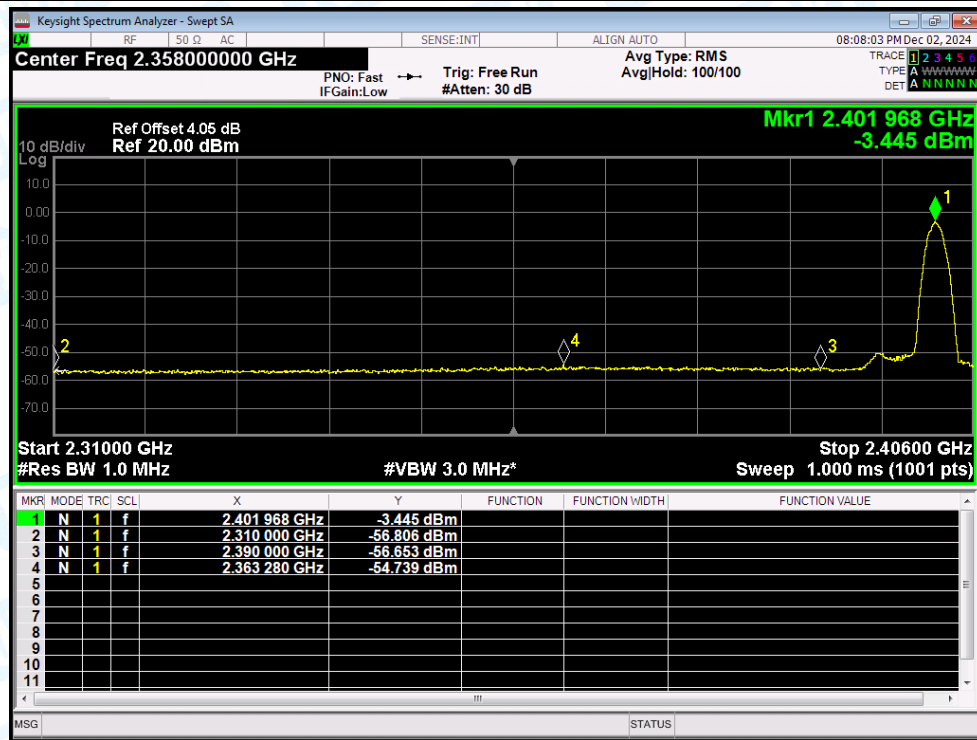
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



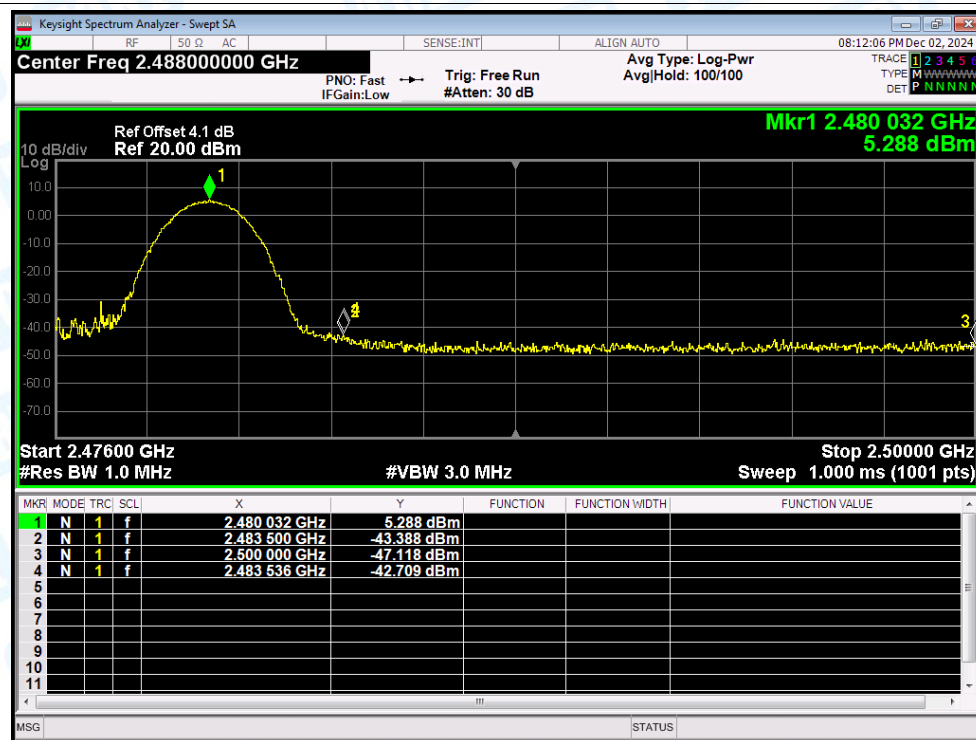
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



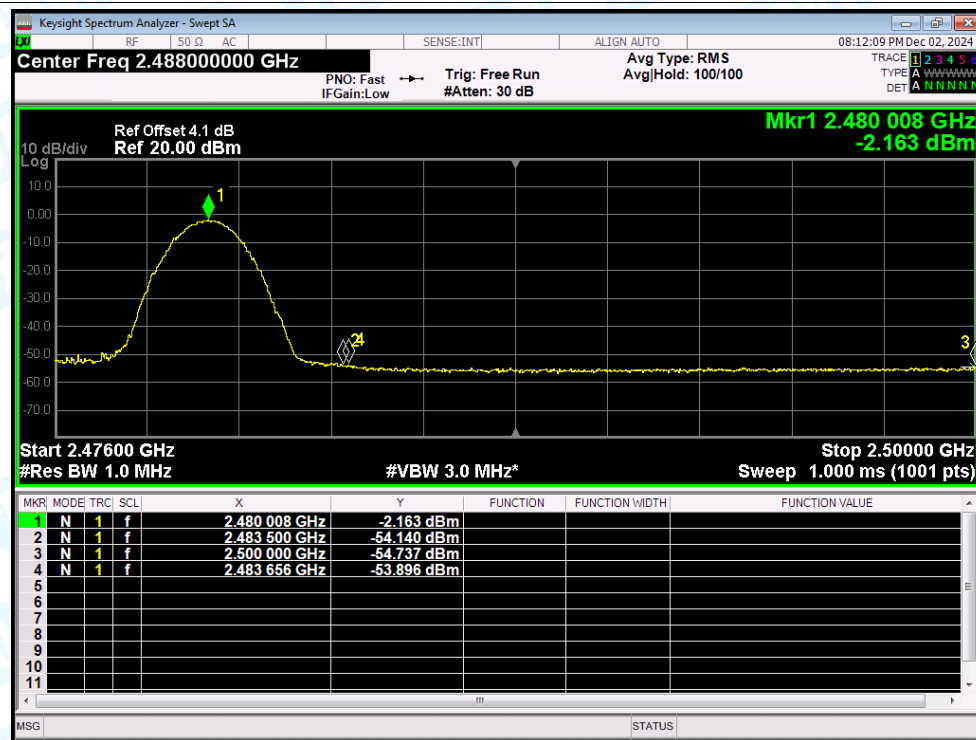
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

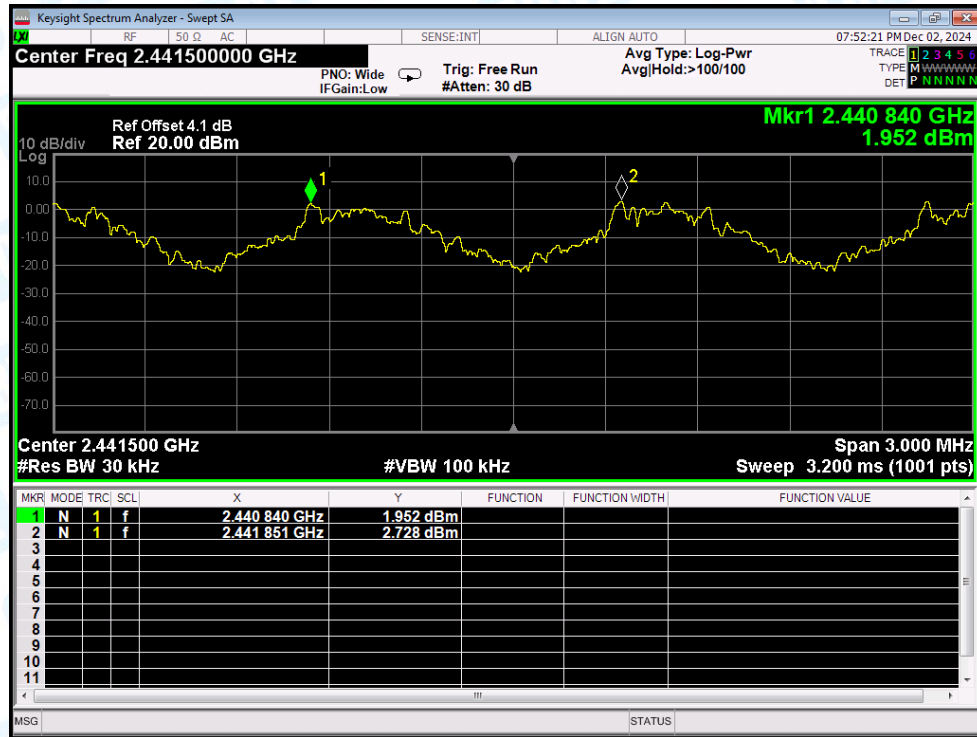


9. Carrier Frequencies Separation

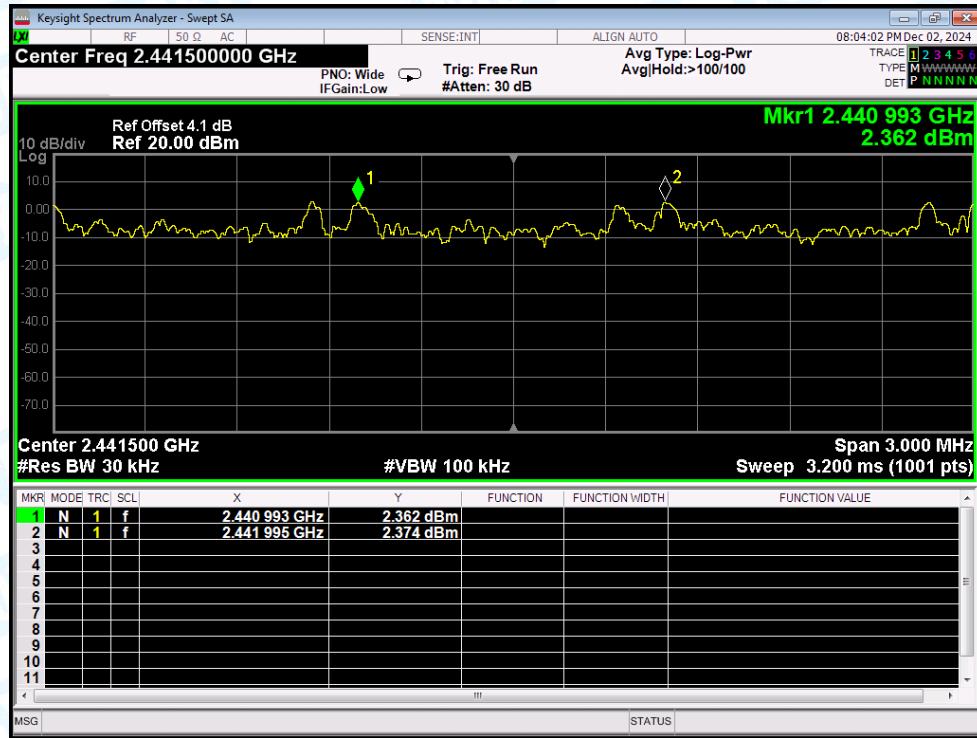
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.84	2441.851	1.011	0.58	Pass
NVNT	2-DH1	Ant1	2440.993	2441.995	1.002	0.827	Pass
NVNT	3-DH1	Ant1	2440.849	2441.845	0.996	0.813	Pass

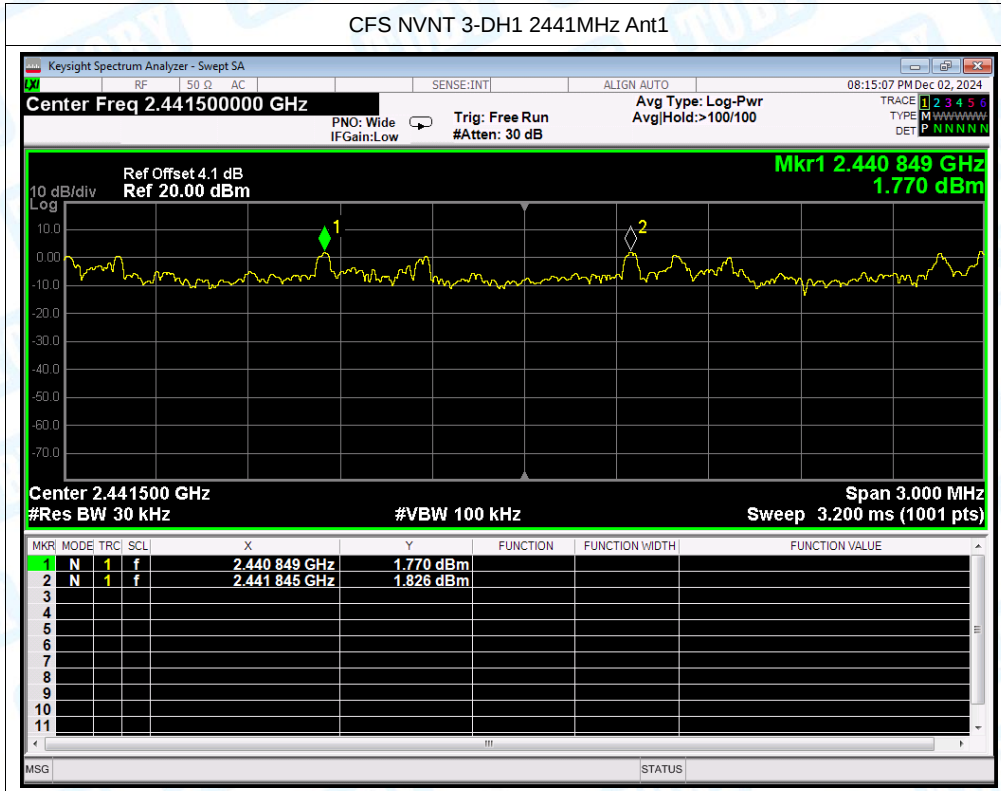
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



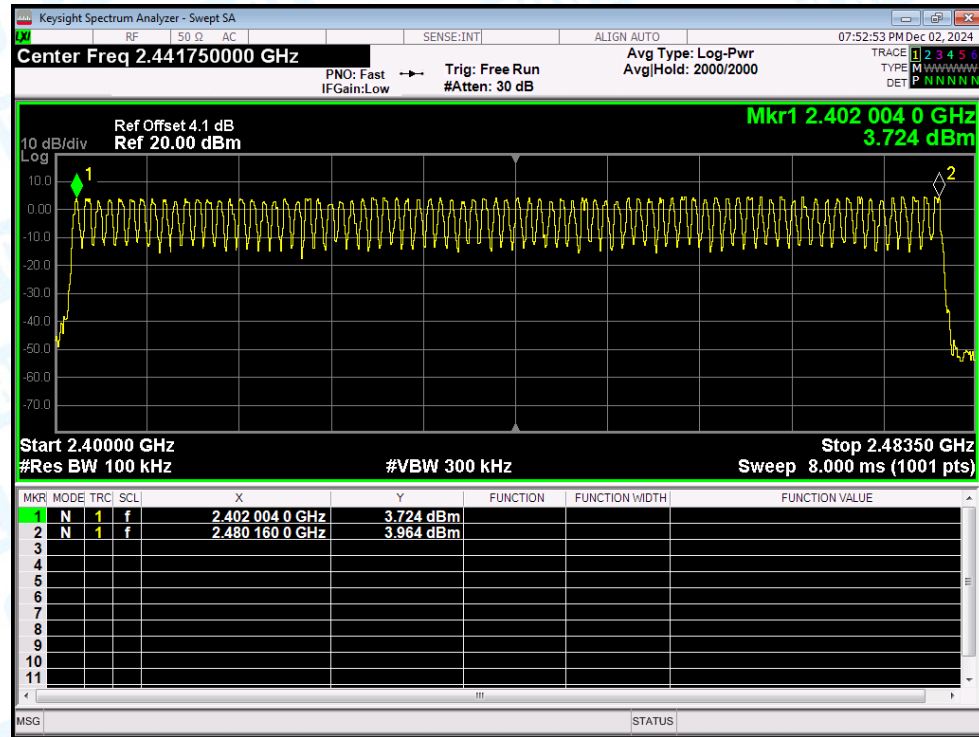


10. Number of Hopping Channel

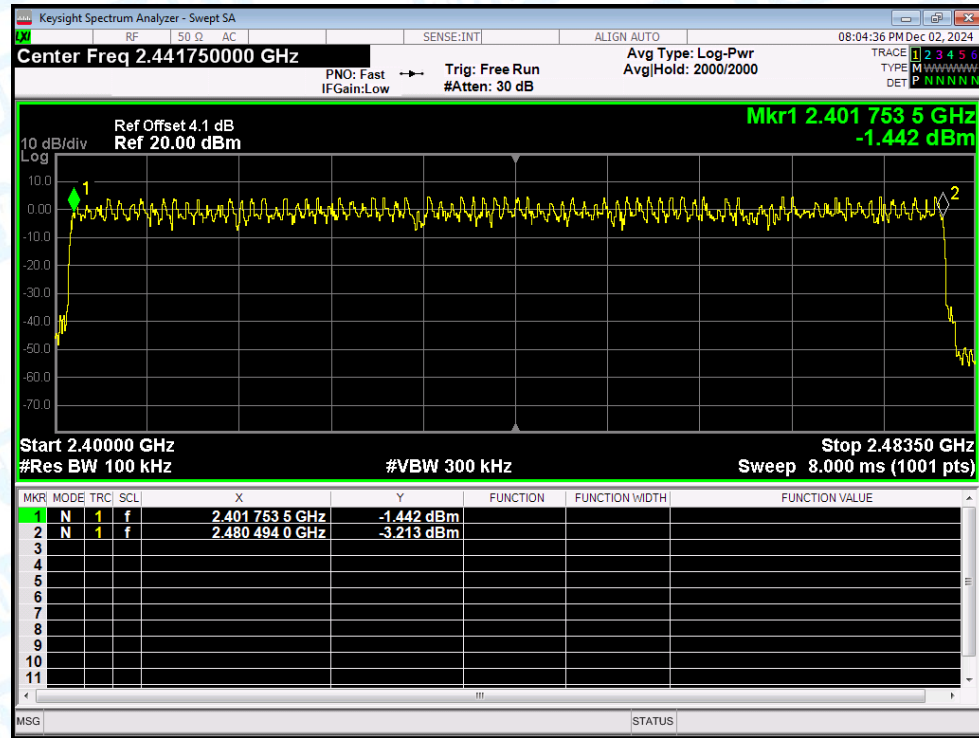
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

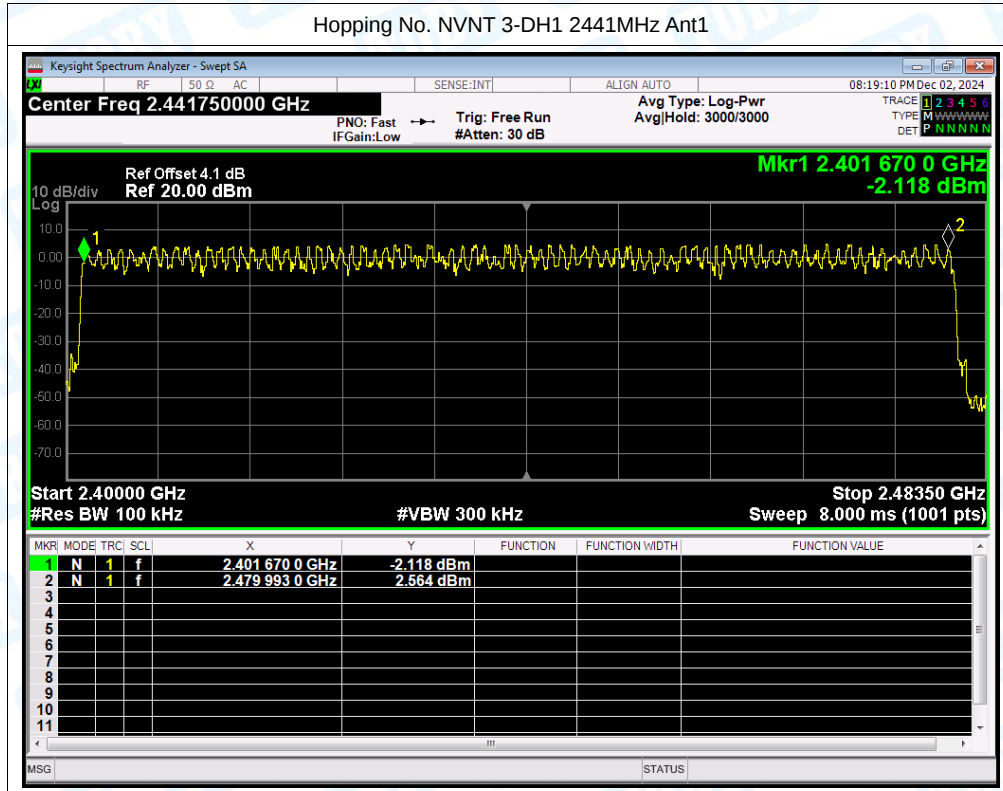
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



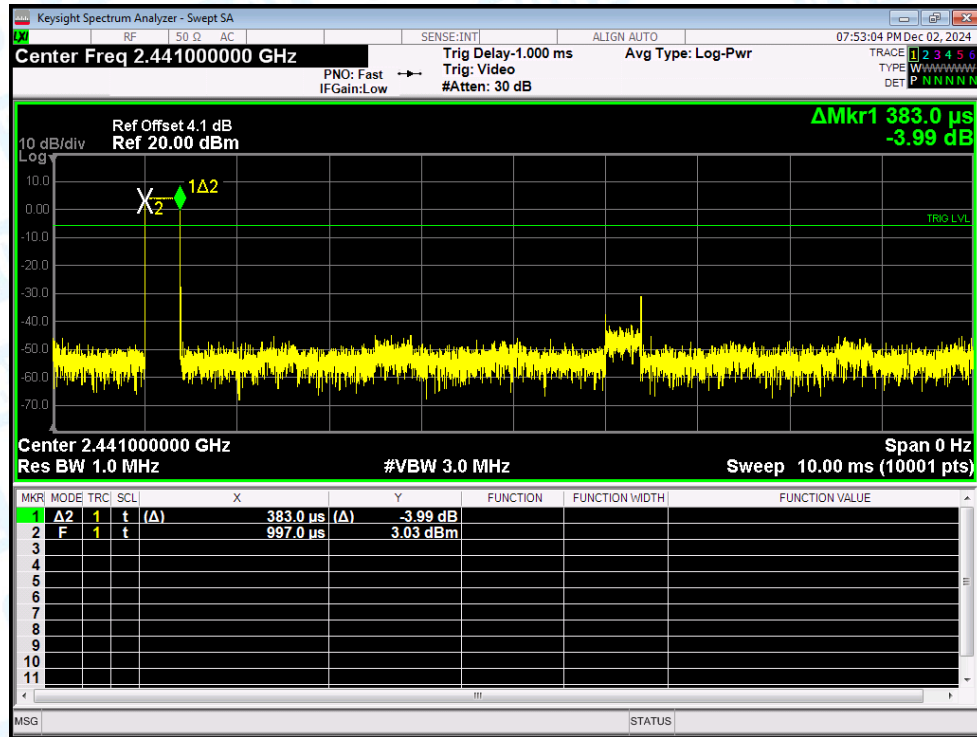


11. Dwell Time

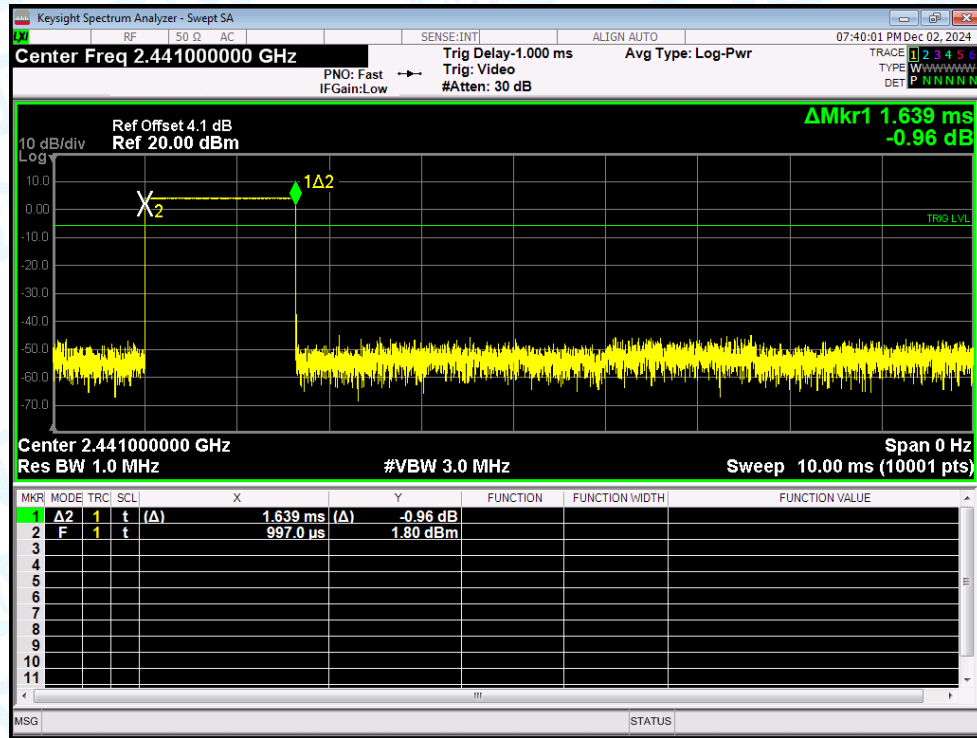
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	122.56	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	262.24	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	307.947	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.44	31600	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	1.643	175.253	31600	400	Pass

Test Graphs

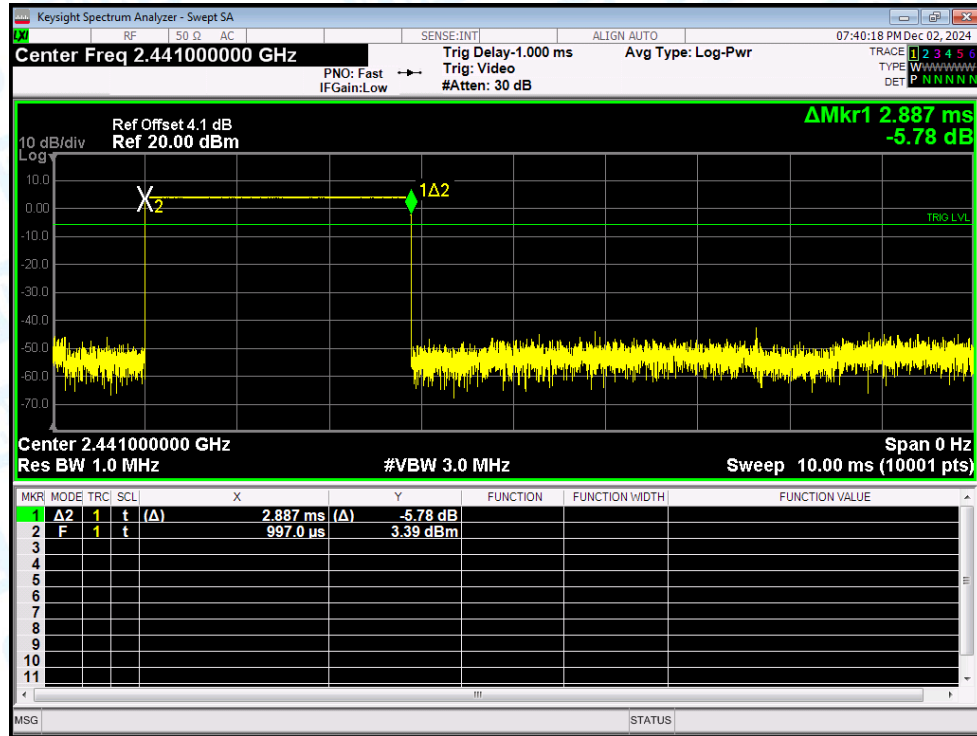
Dwell NVNT 1-DH1 2441MHz Ant1



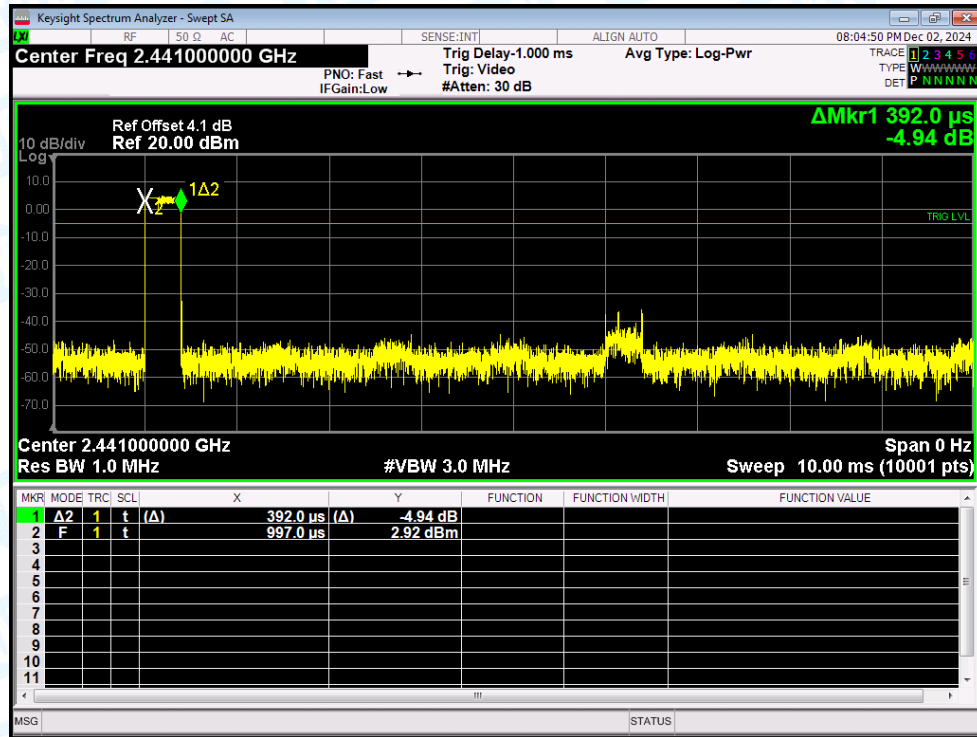
Dwell NVNT 1-DH3 2441MHz Ant1



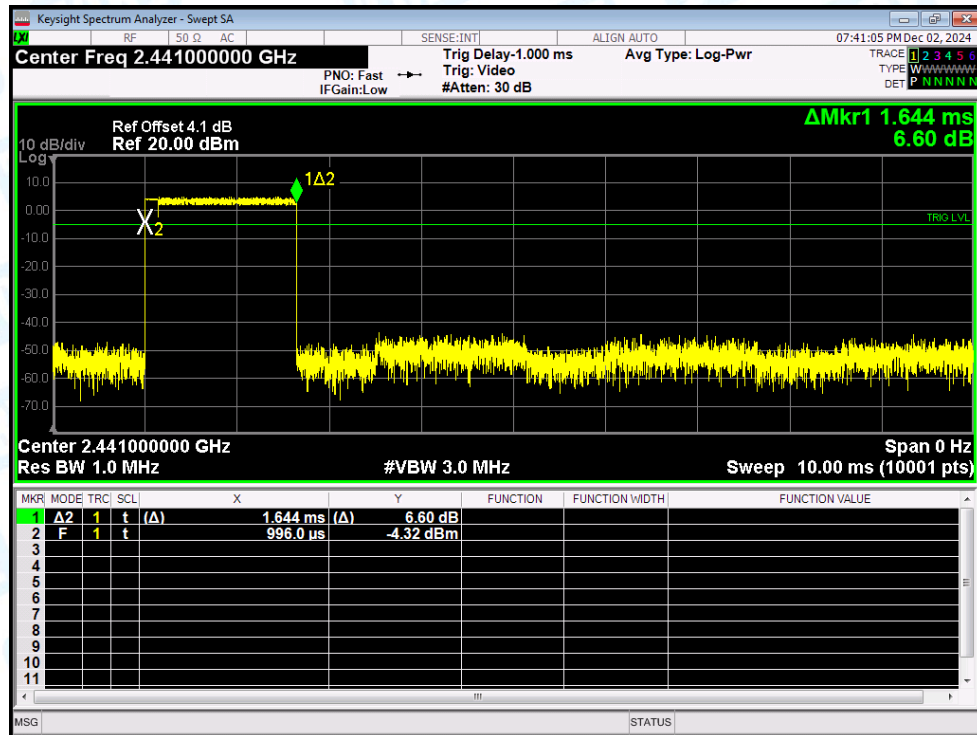
Dwell NVNT 1-DH5 2441MHz Ant1



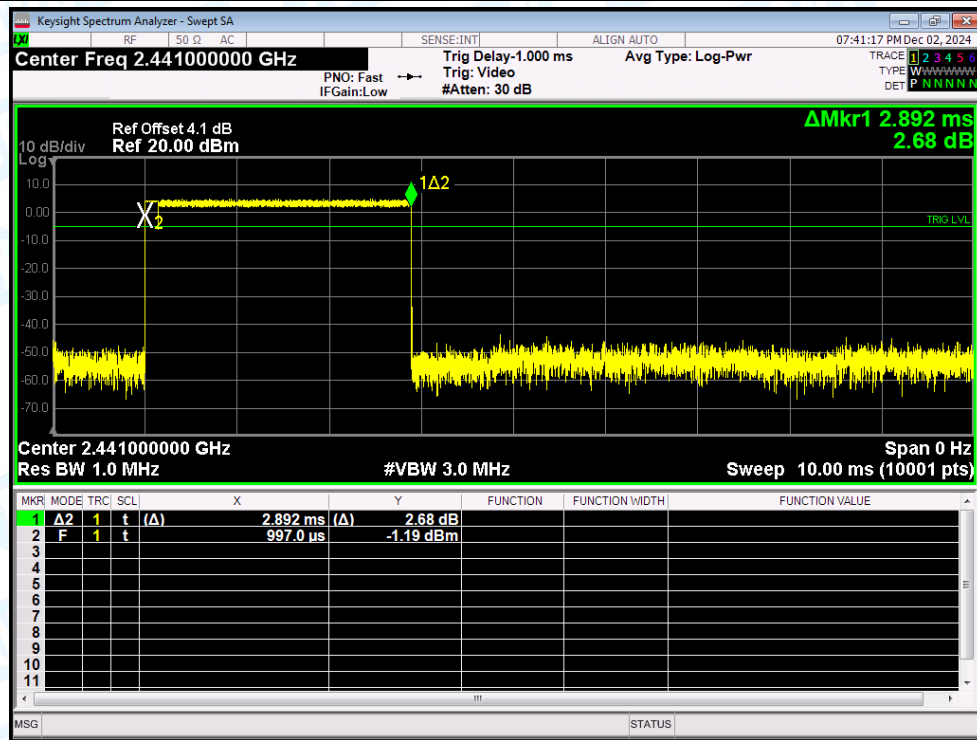
Dwell NVNT 2-DH1 2441MHz Ant1



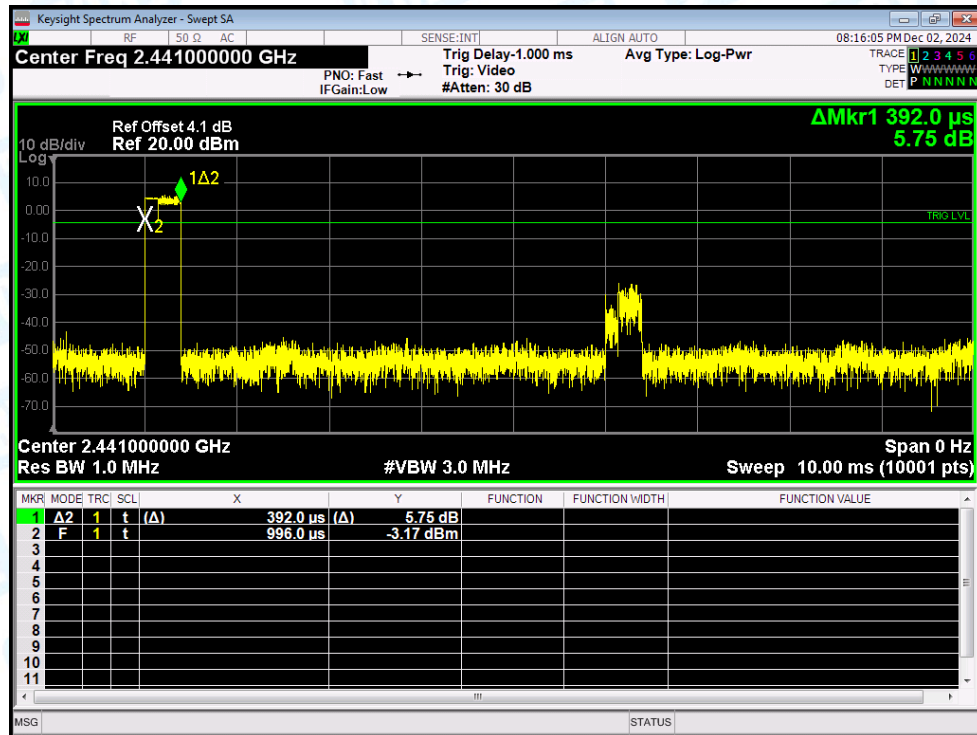
Dwell NVNT 2-DH3 2441MHz Ant1



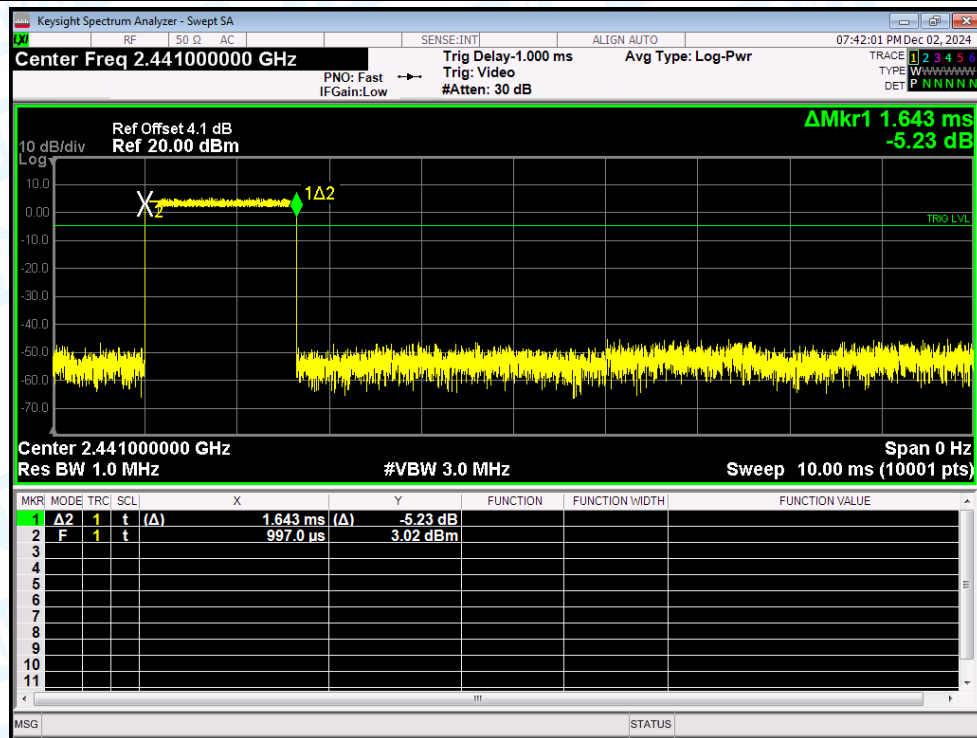
Dwell NVNT 2-DH5 2441MHz Ant1

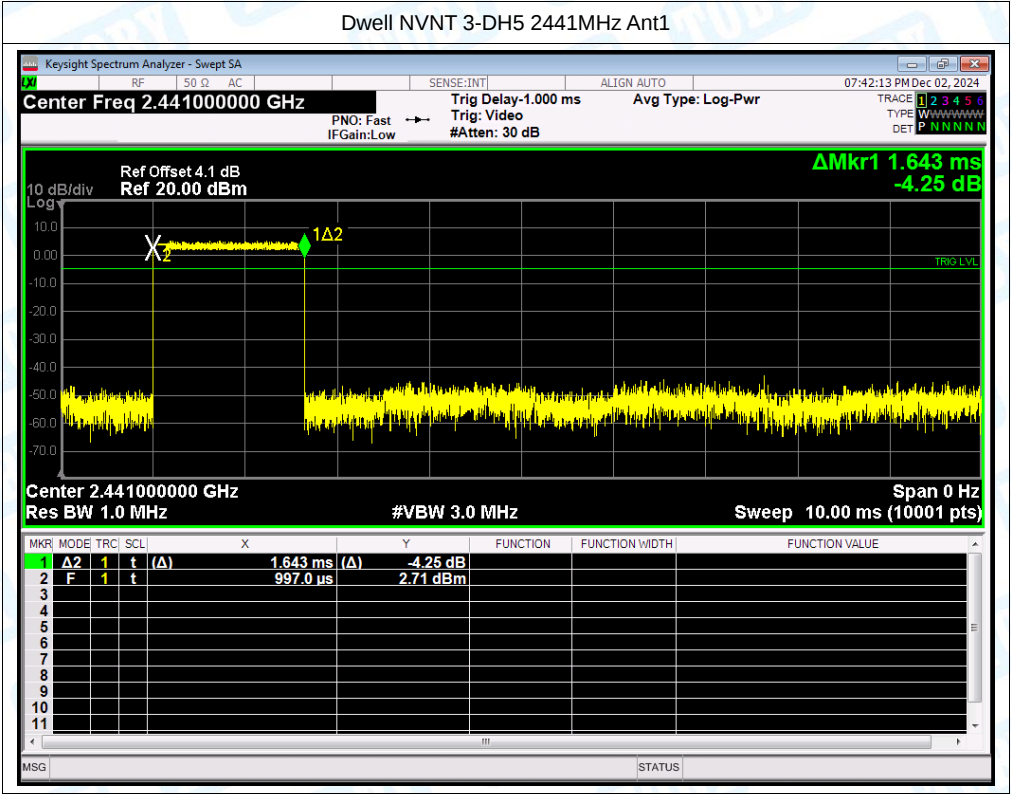


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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