

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet pc
Test Model:	IT-1001A
Sample ID:	HC-C-202408-0001-03-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202408-0001-18 The report only show the worst case data.	

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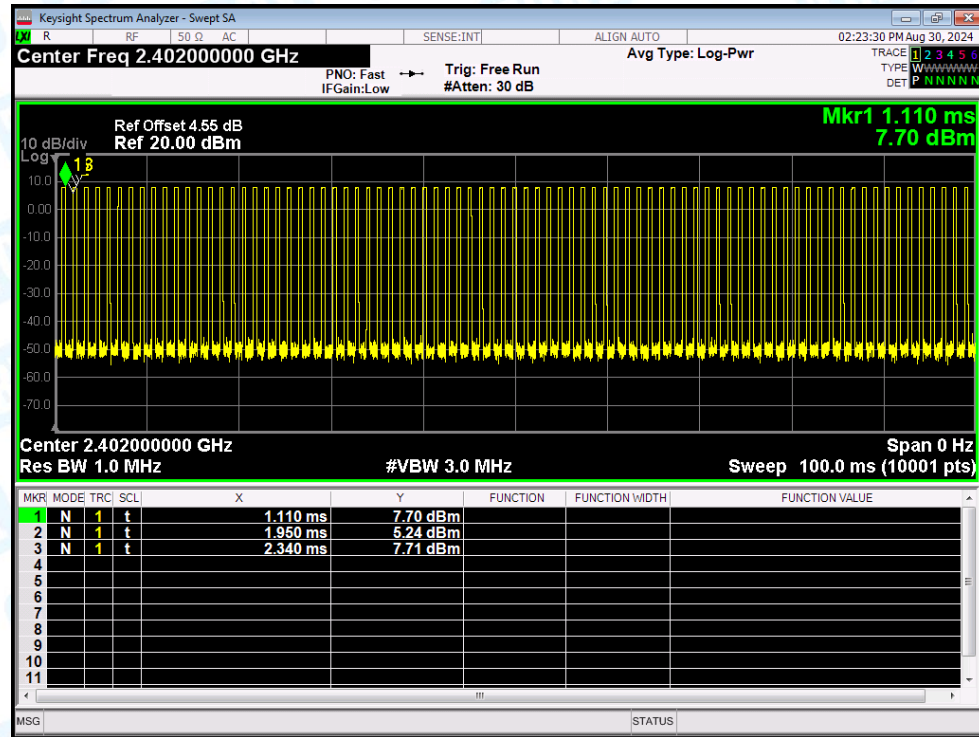
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1. Duty Cycle

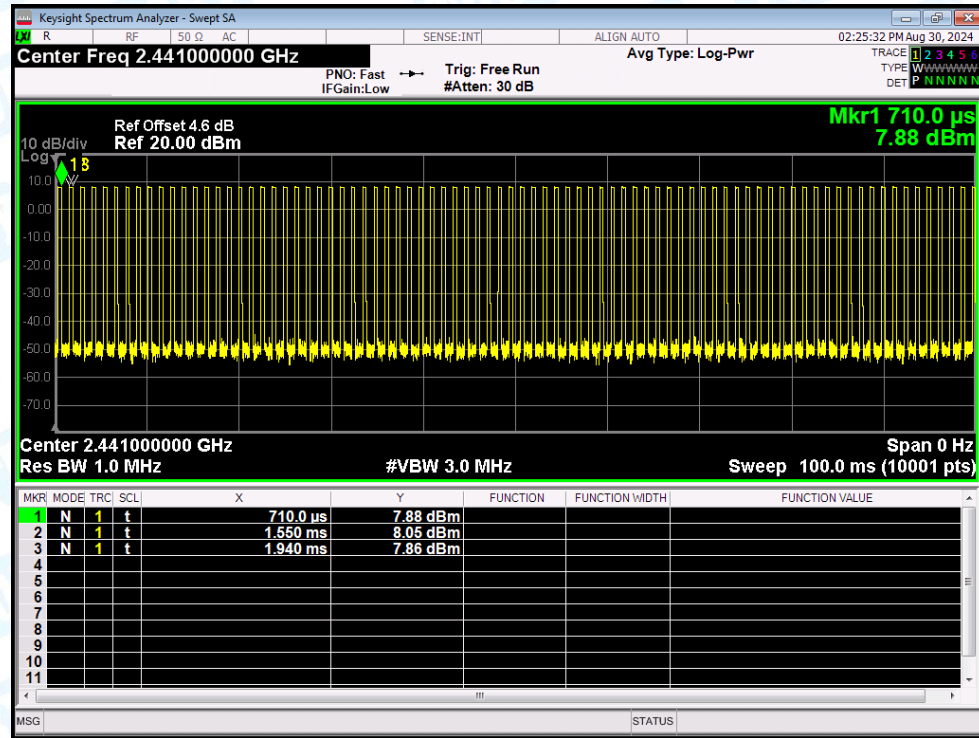
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.71	4.99	2.56
NVNT	1-DH1	2441	Ant1	31.71	4.99	2.56
NVNT	1-DH1	2480	Ant1	31.71	4.99	2.56
NVNT	2-DH1	2402	Ant1	31.71	4.99	2.56
NVNT	2-DH1	2441	Ant1	32.26	4.91	2.5
NVNT	2-DH1	2480	Ant1	31.45	5.02	2.56
NVNT	3-DH1	2402	Ant1	31.71	4.99	2.56
NVNT	3-DH1	2441	Ant1	31.45	5.02	2.56
NVNT	3-DH1	2480	Ant1	32.26	4.91	2.5

Test Graphs

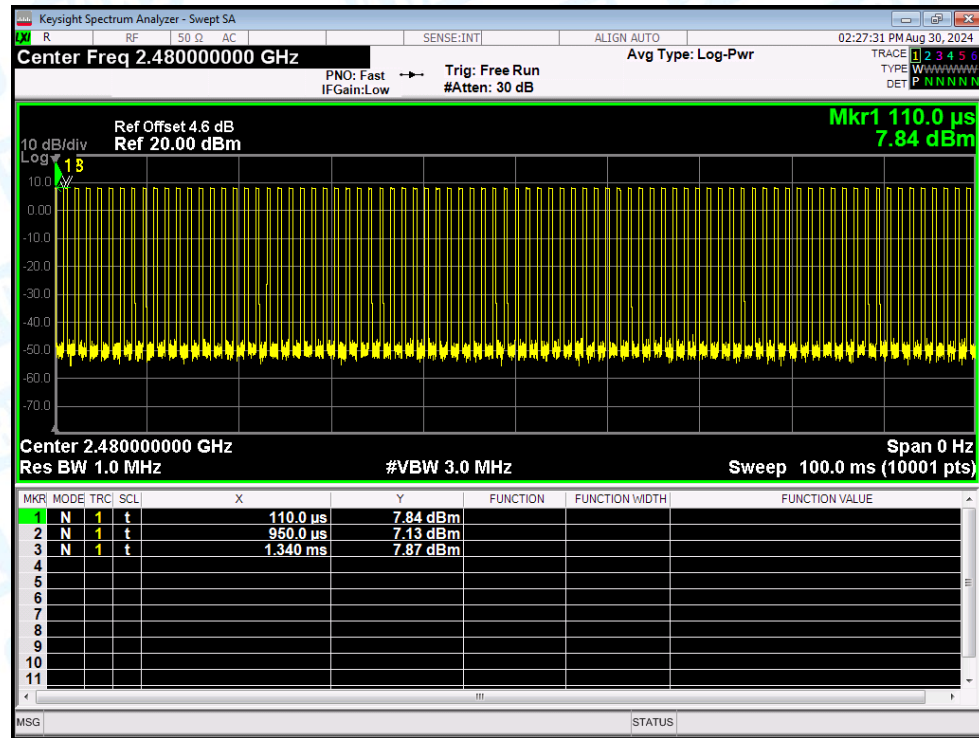
Duty Cycle NVNT 1-DH1 2402MHz Ant1



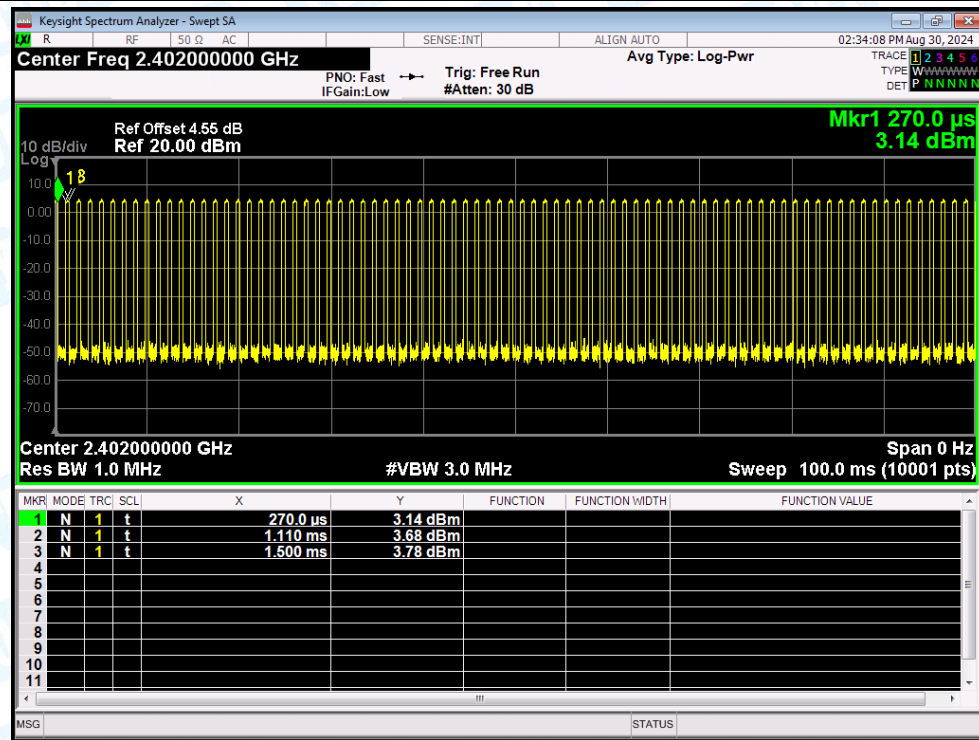
Duty Cycle NVNT 1-DH1 2441MHz Ant1



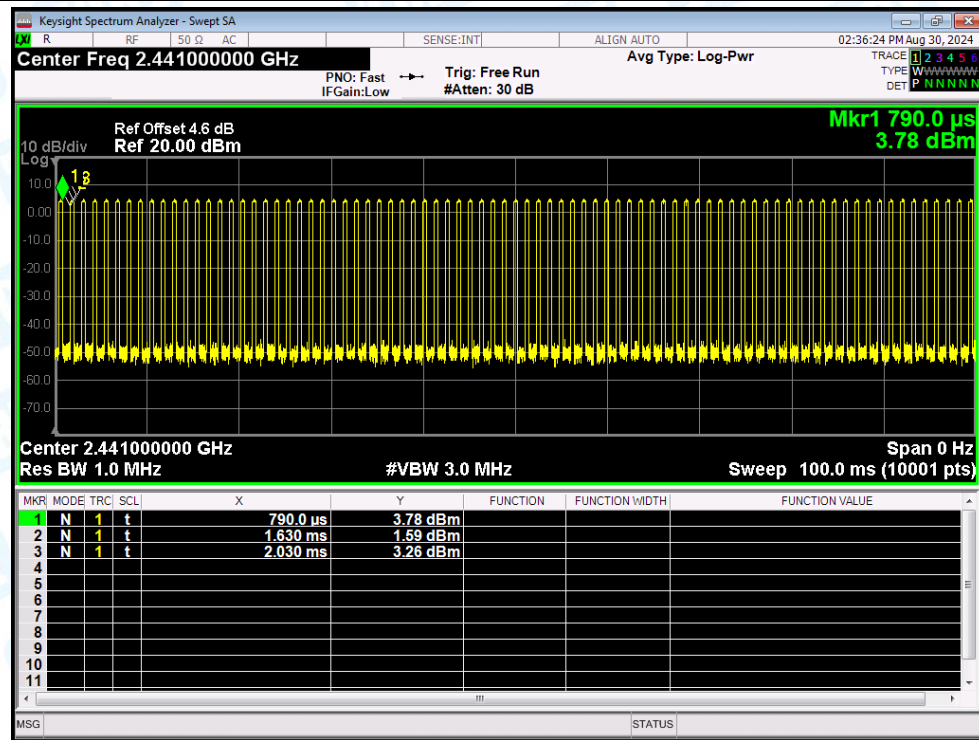
Duty Cycle NVNT 1-DH1 2480MHz Ant1



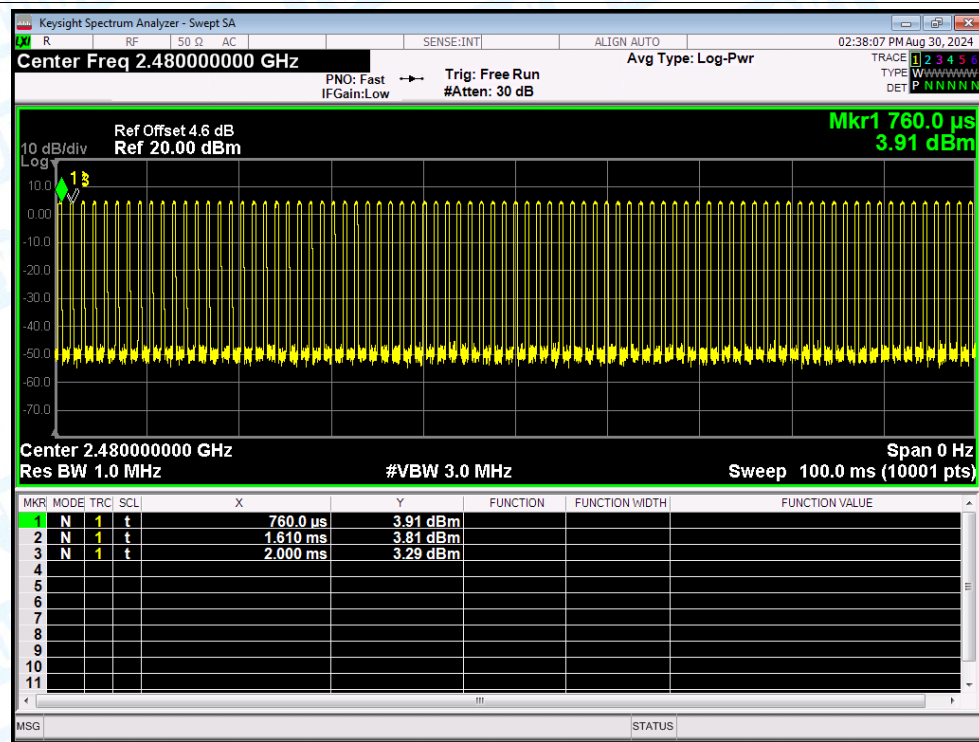
Duty Cycle NVNT 2-DH1 2402MHz Ant1



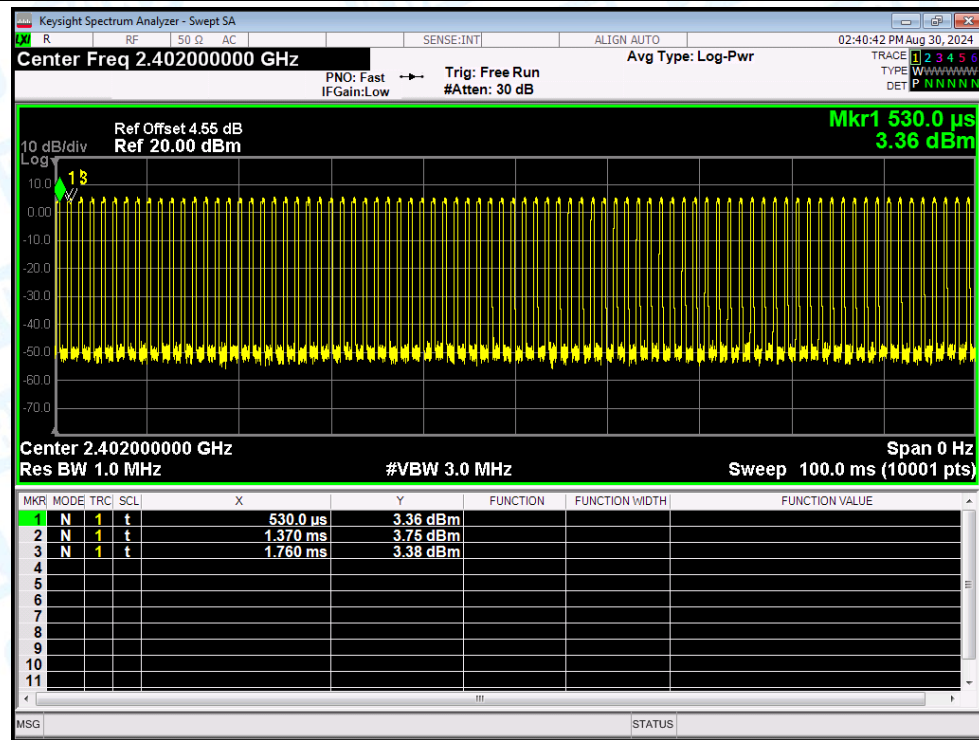
Duty Cycle NVNT 2-DH1 2441MHz Ant1



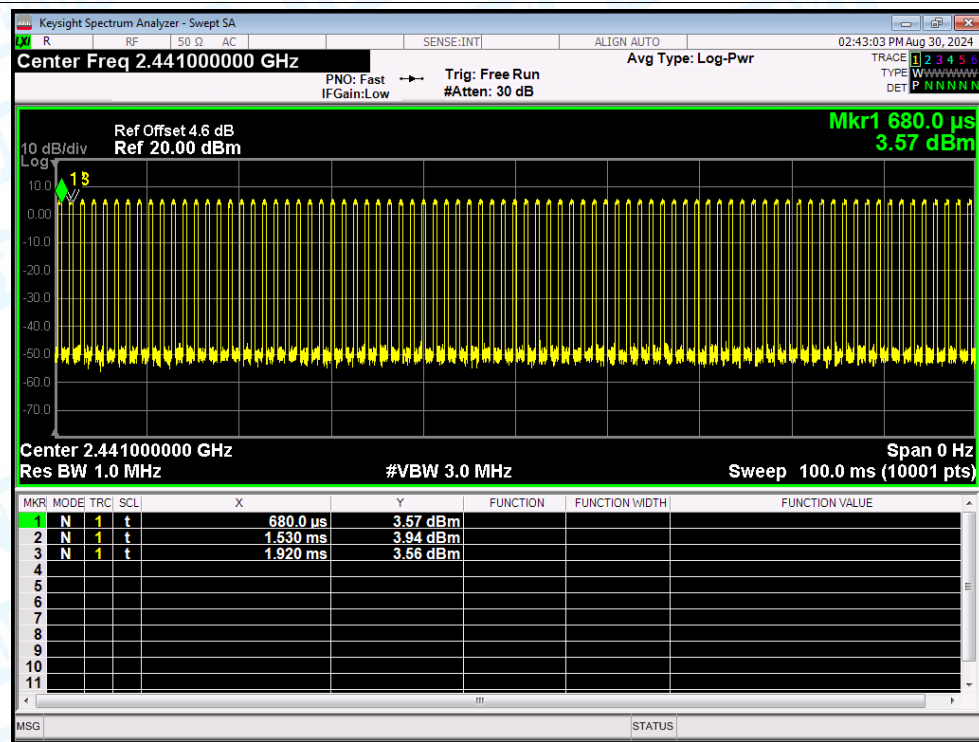
Duty Cycle NVNT 2-DH1 2480MHz Ant1

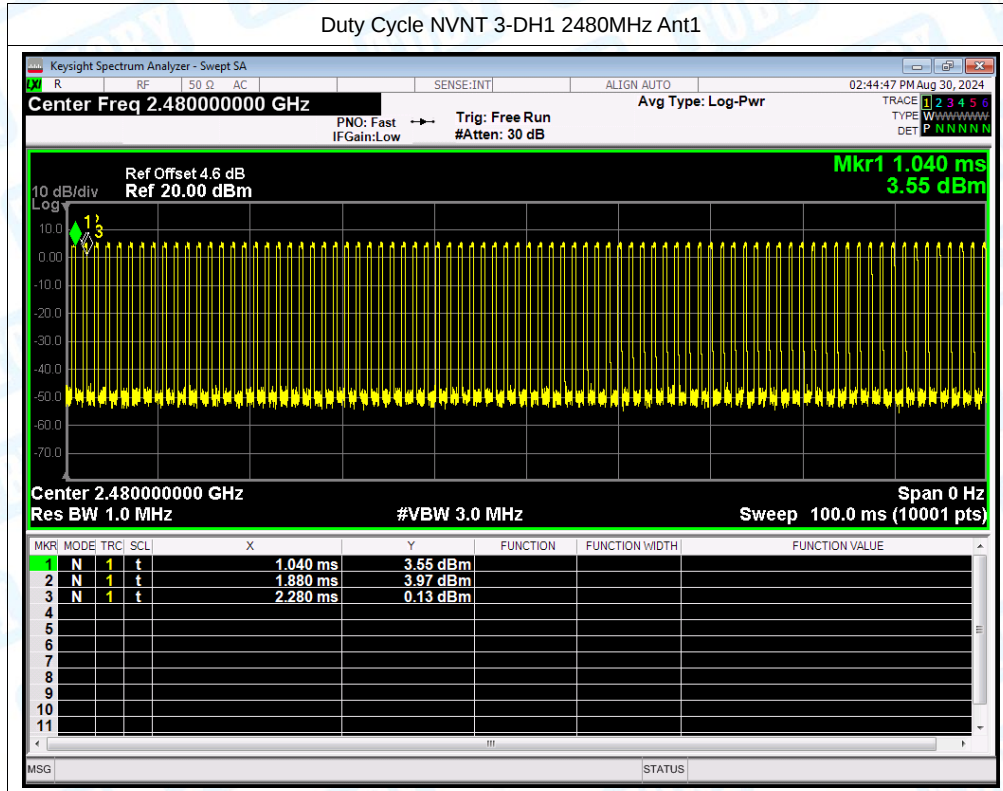


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



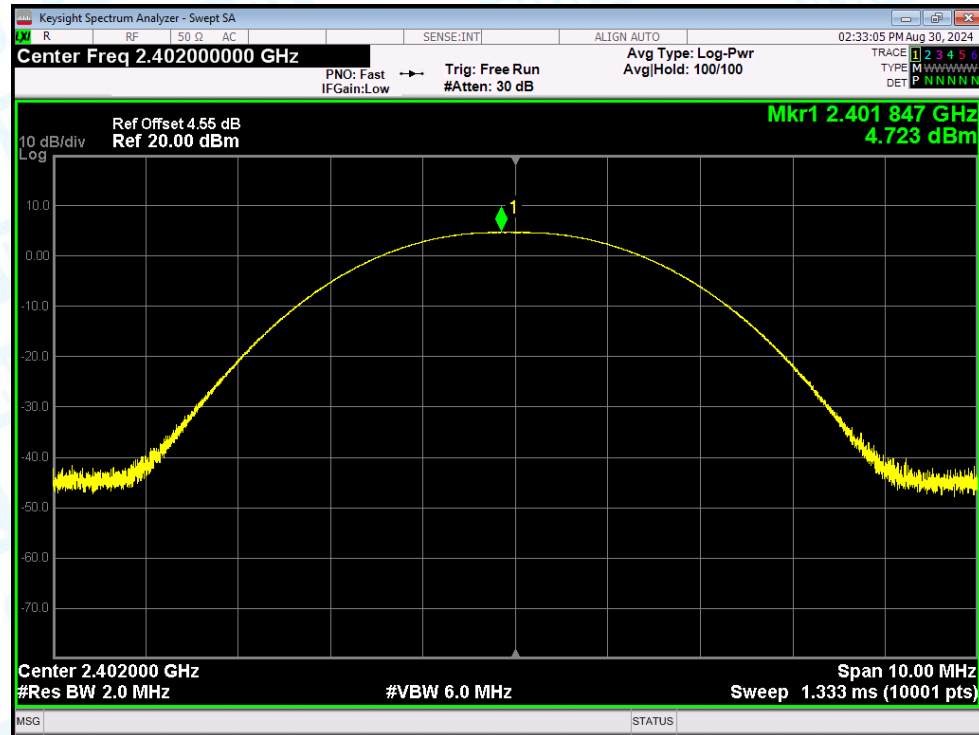


2. Maximum Conducted Output Power

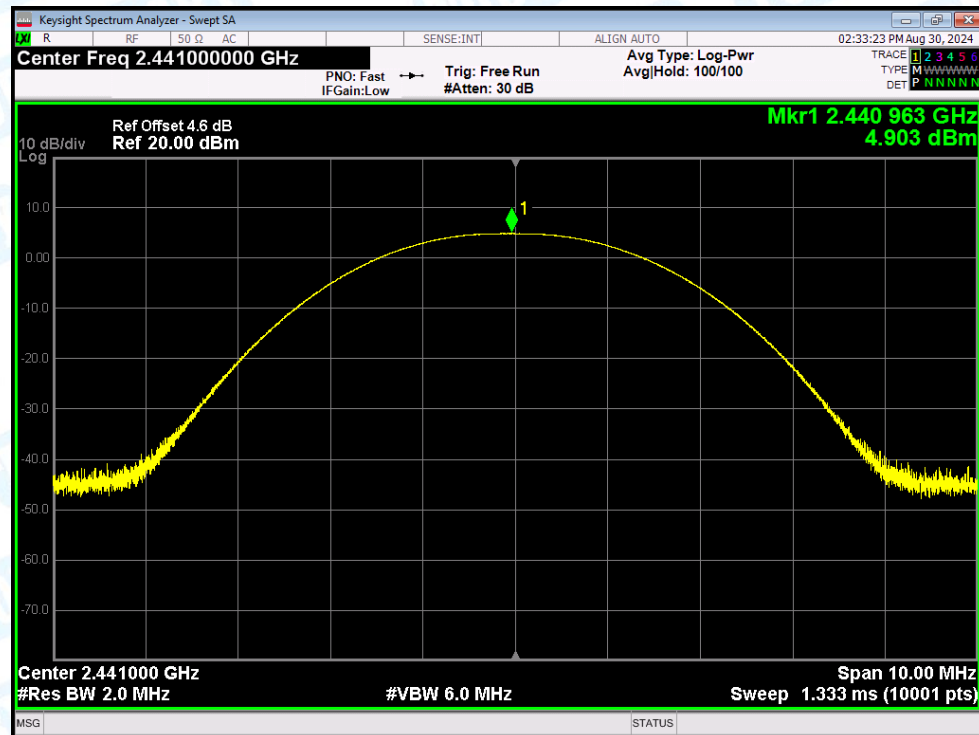
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	4.723	21	Pass
NVNT	1-DH1	2441	Ant1	4.903	21	Pass
NVNT	1-DH1	2480	Ant1	5.387	21	Pass
NVNT	2-DH1	2402	Ant1	5.106	21	Pass
NVNT	2-DH1	2441	Ant1	5.290	21	Pass
NVNT	2-DH1	2480	Ant1	5.282	21	Pass
NVNT	3-DH1	2402	Ant1	5.777	21	Pass
NVNT	3-DH1	2441	Ant1	5.912	21	Pass
NVNT	3-DH1	2480	Ant1	5.367	21	Pass

Test Graphs

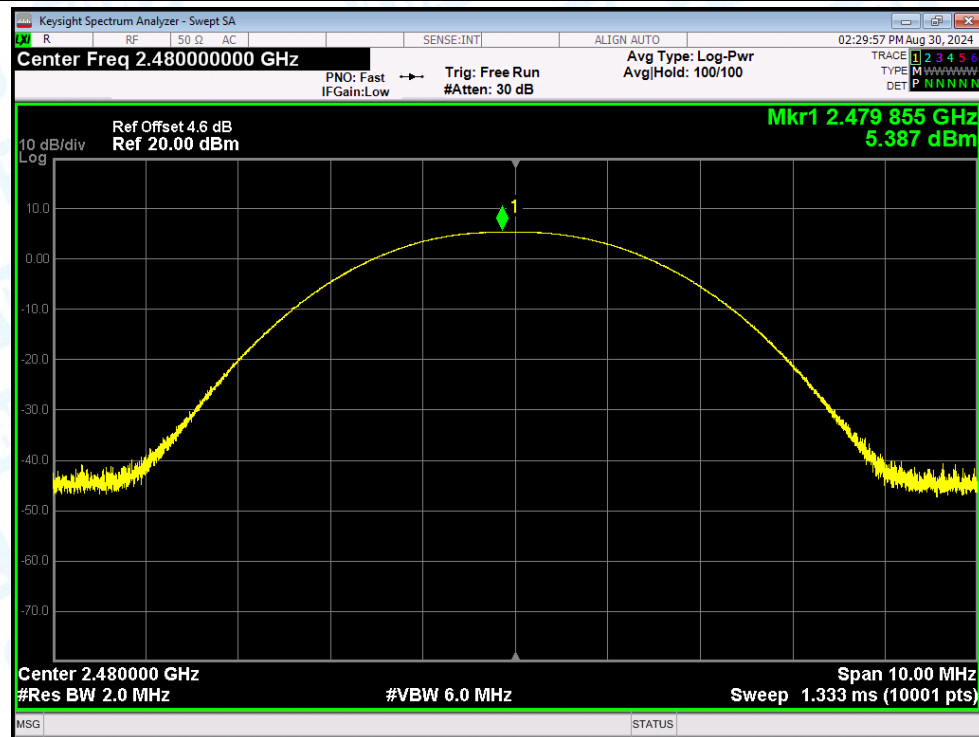
Power NVNT 1-DH1 2402MHz Ant1



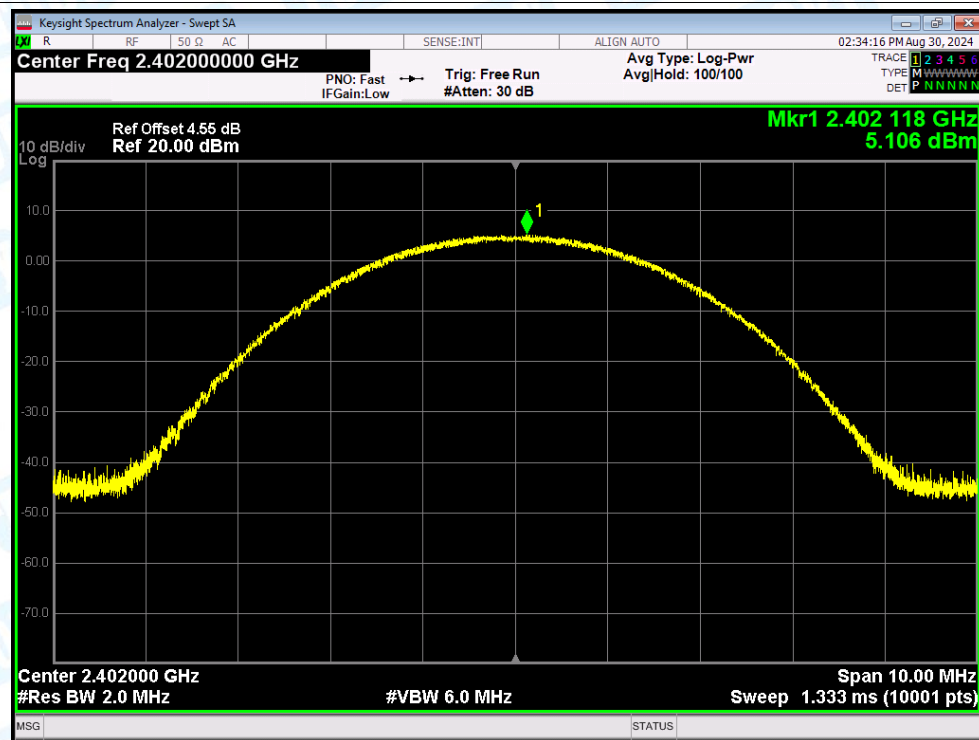
Power NVNT 1-DH1 2441MHz Ant1



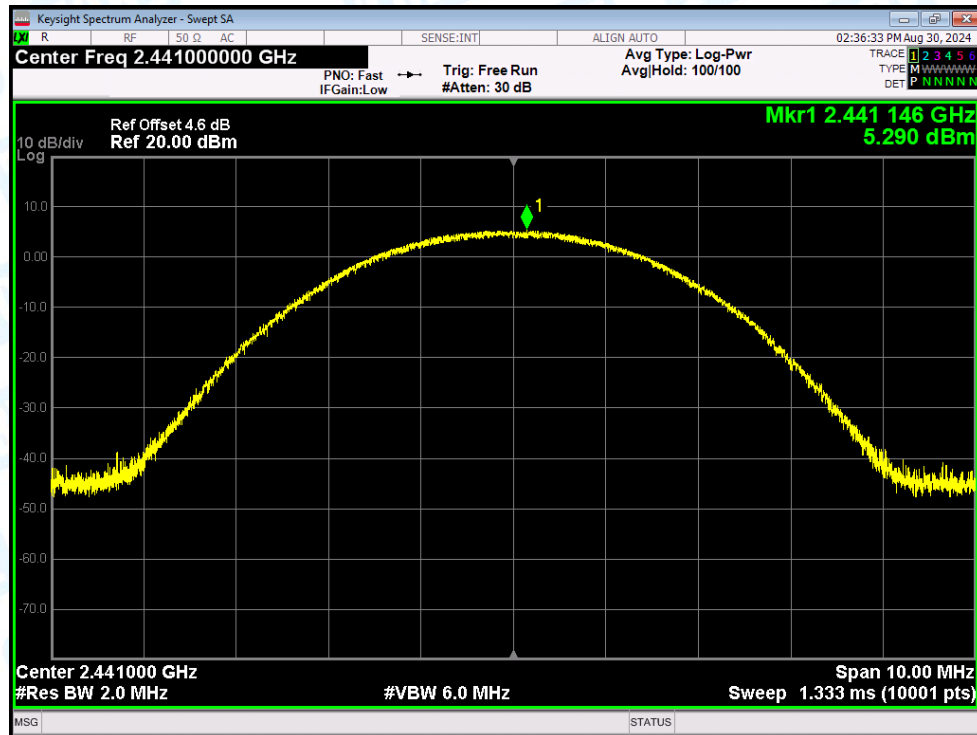
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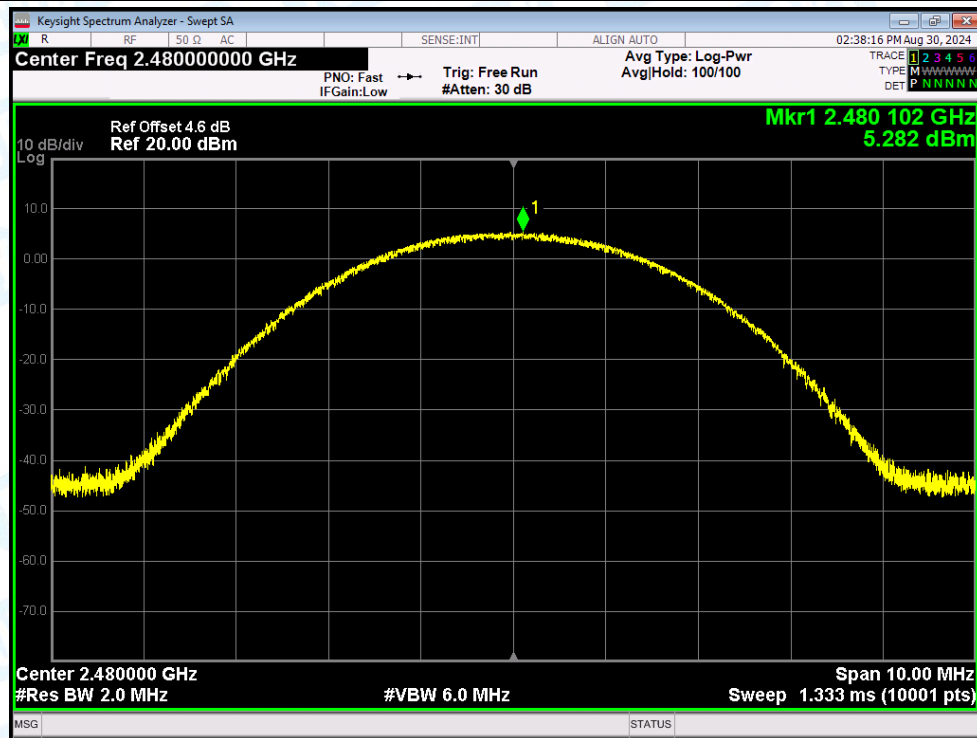
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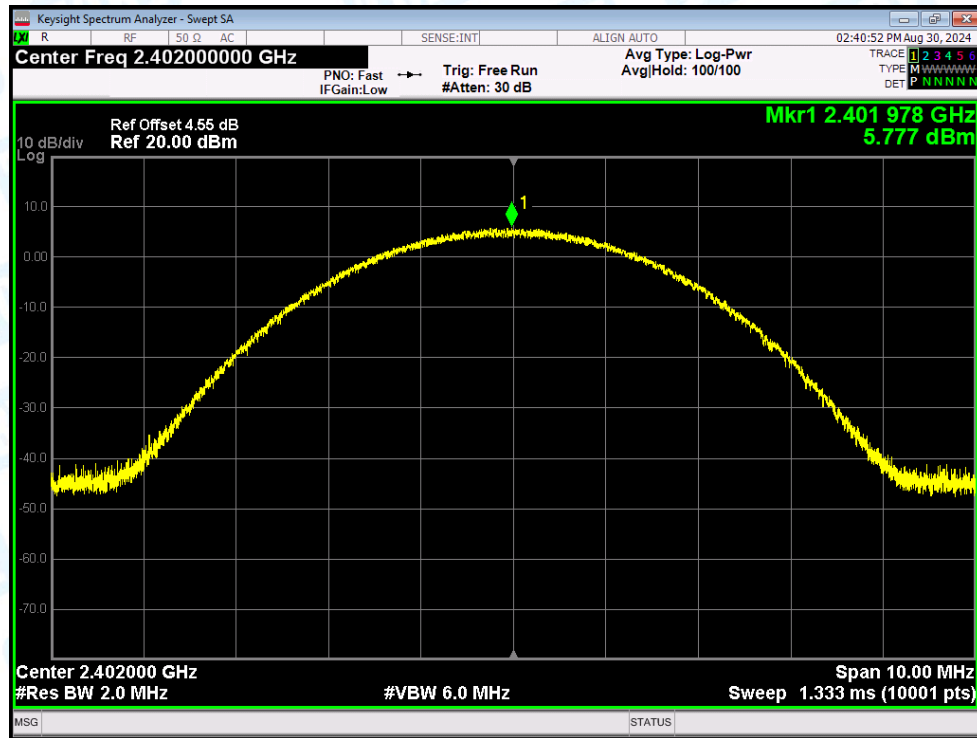
Power NVNT 2-DH1 2441MHz Ant1



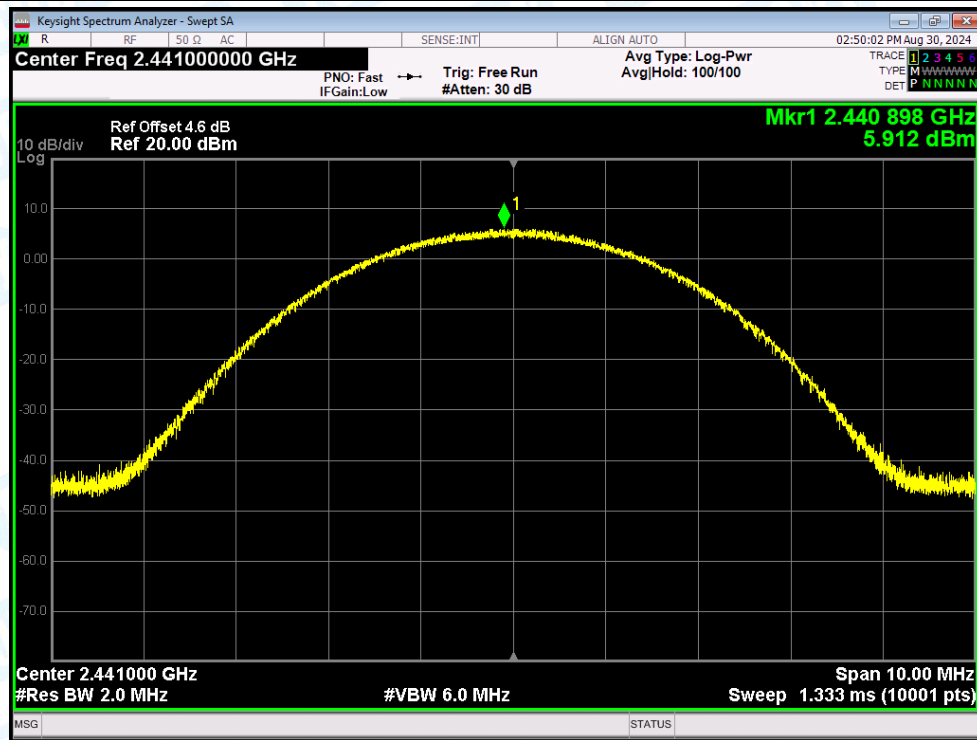
Power NVNT 2-DH1 2480MHz Ant1

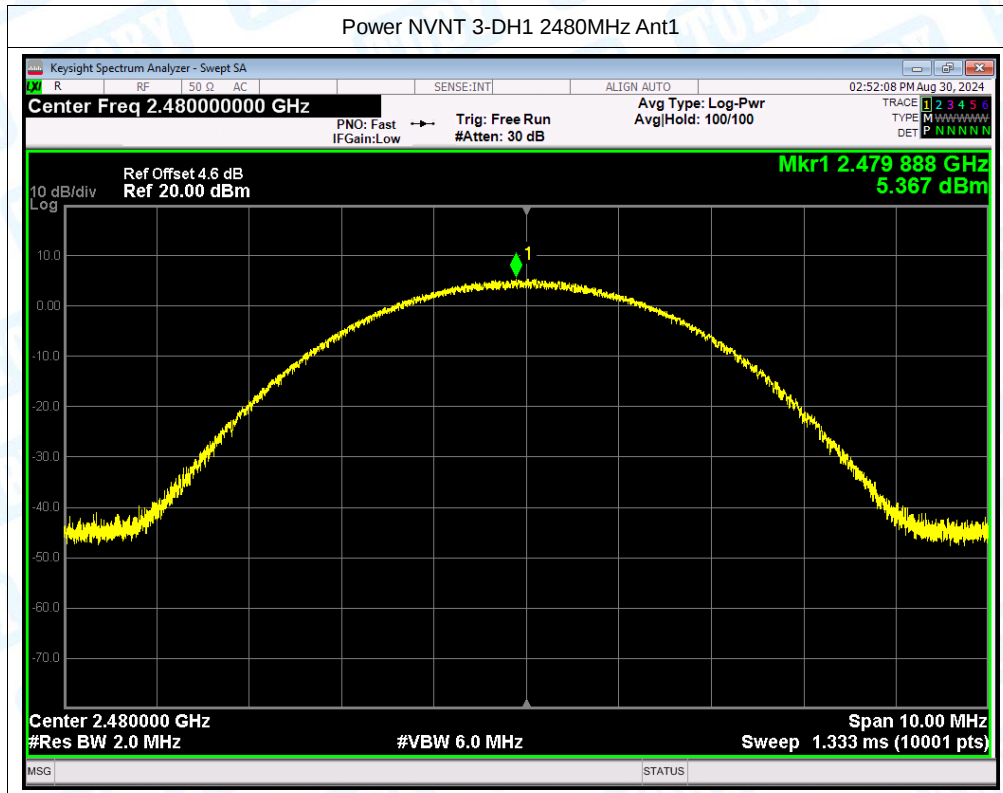


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



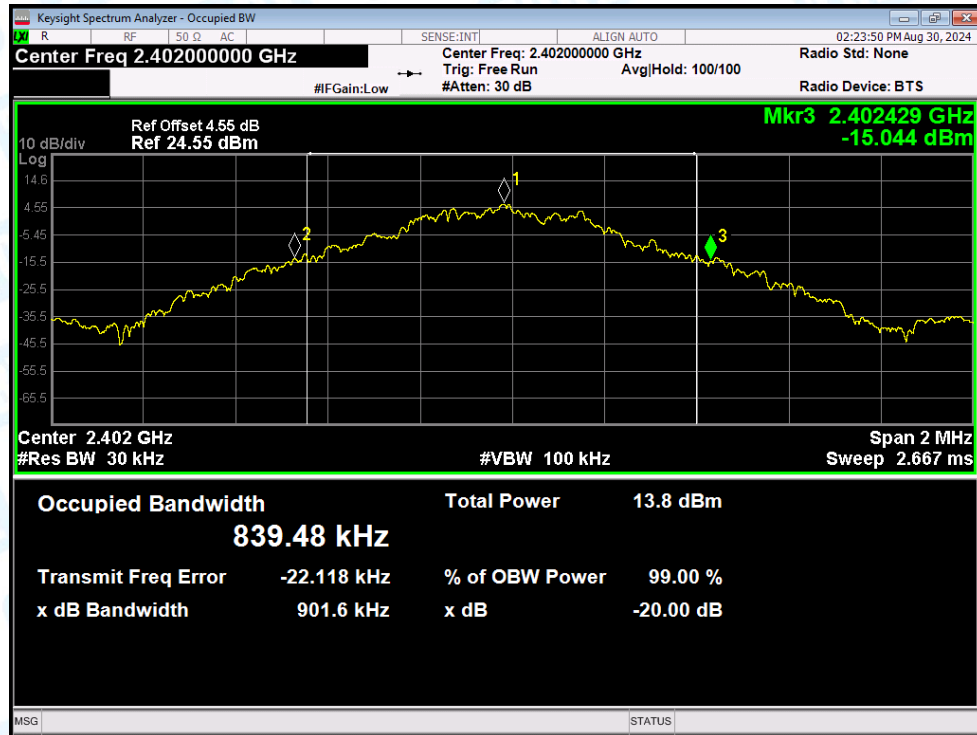


3. -20dB Bandwidth

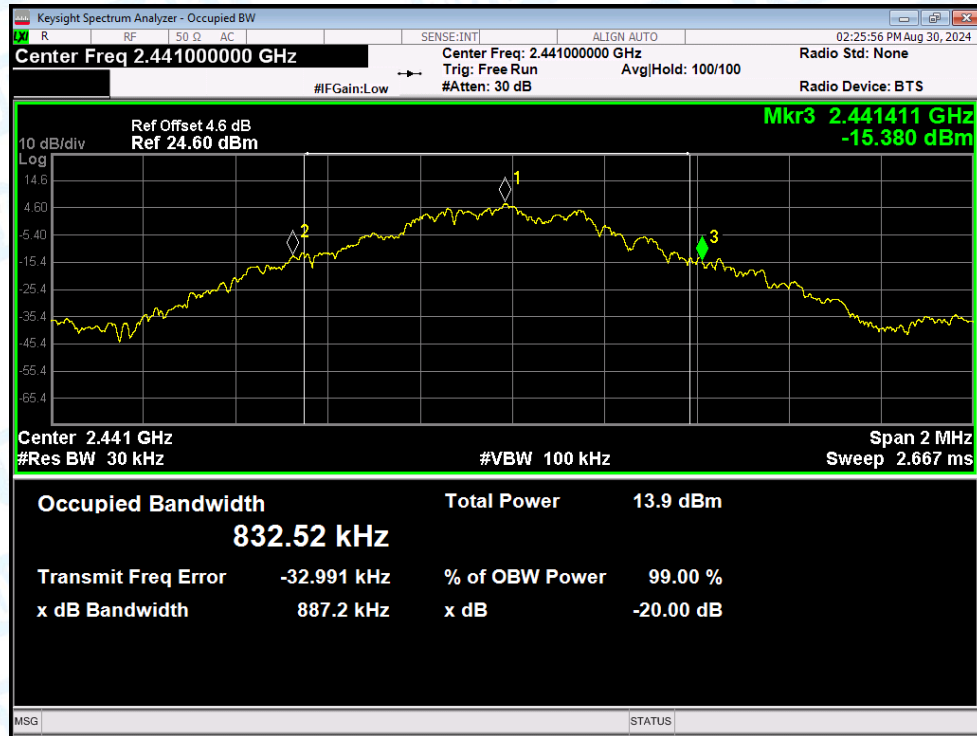
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.9	----	Pass
NVNT	1-DH1	2441	Ant1	0.89	----	Pass
NVNT	1-DH1	2480	Ant1	0.94	----	Pass
NVNT	2-DH1	2402	Ant1	1.25	----	Pass
NVNT	2-DH1	2441	Ant1	1.21	----	Pass
NVNT	2-DH1	2480	Ant1	1.23	----	Pass
NVNT	3-DH1	2402	Ant1	1.21	----	Pass
NVNT	3-DH1	2441	Ant1	1.21	----	Pass
NVNT	3-DH1	2480	Ant1	1.21	----	Pass

Test Graphs

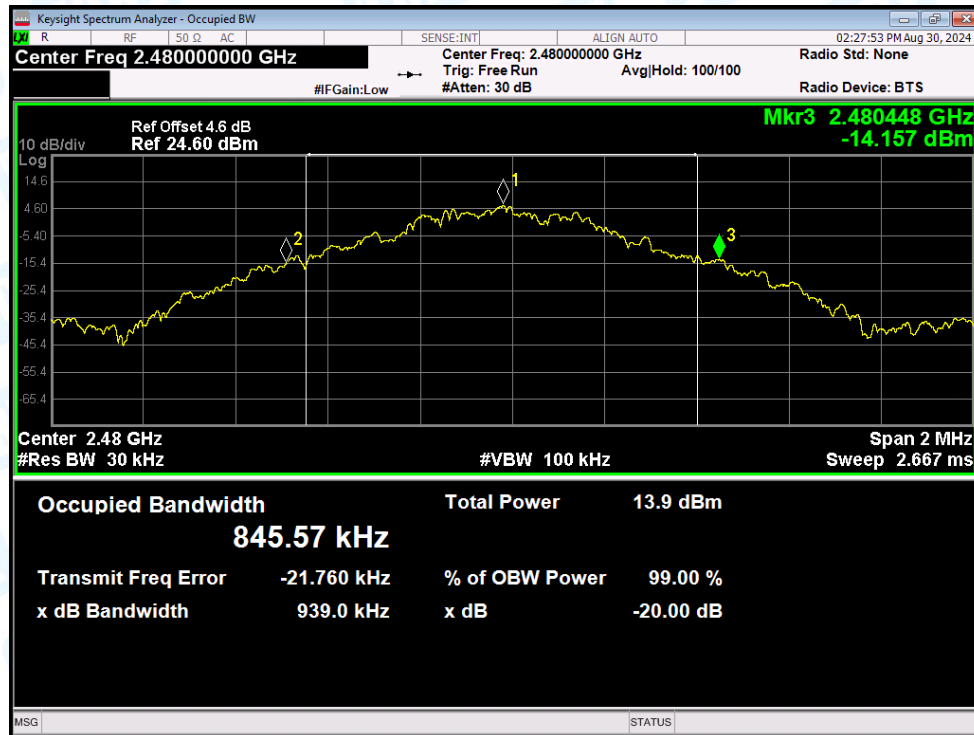
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



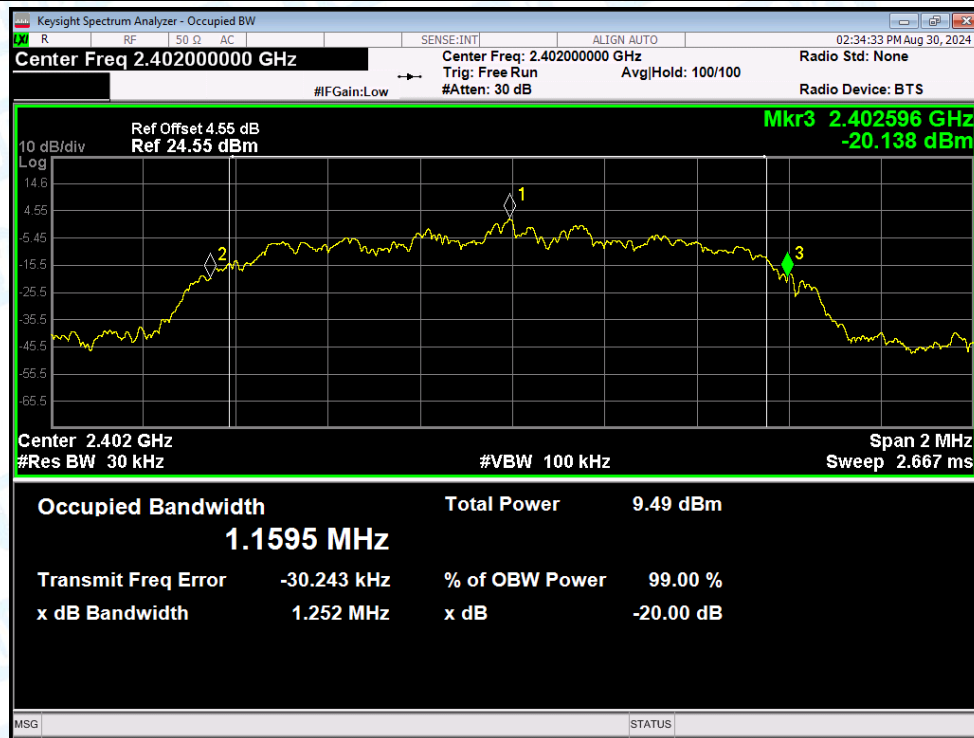
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



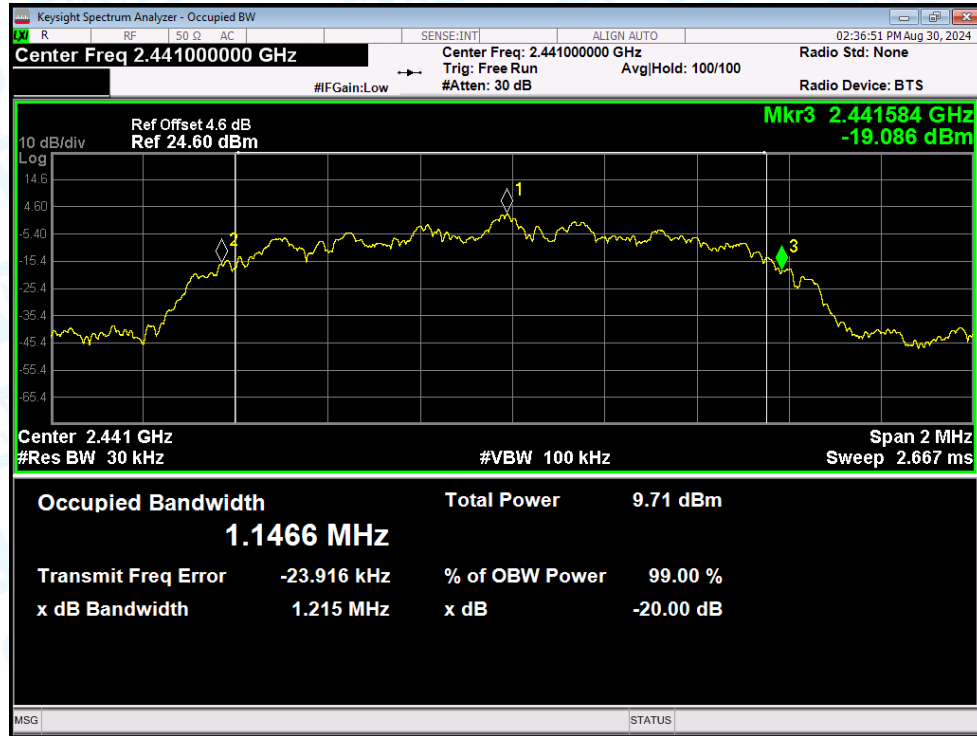
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



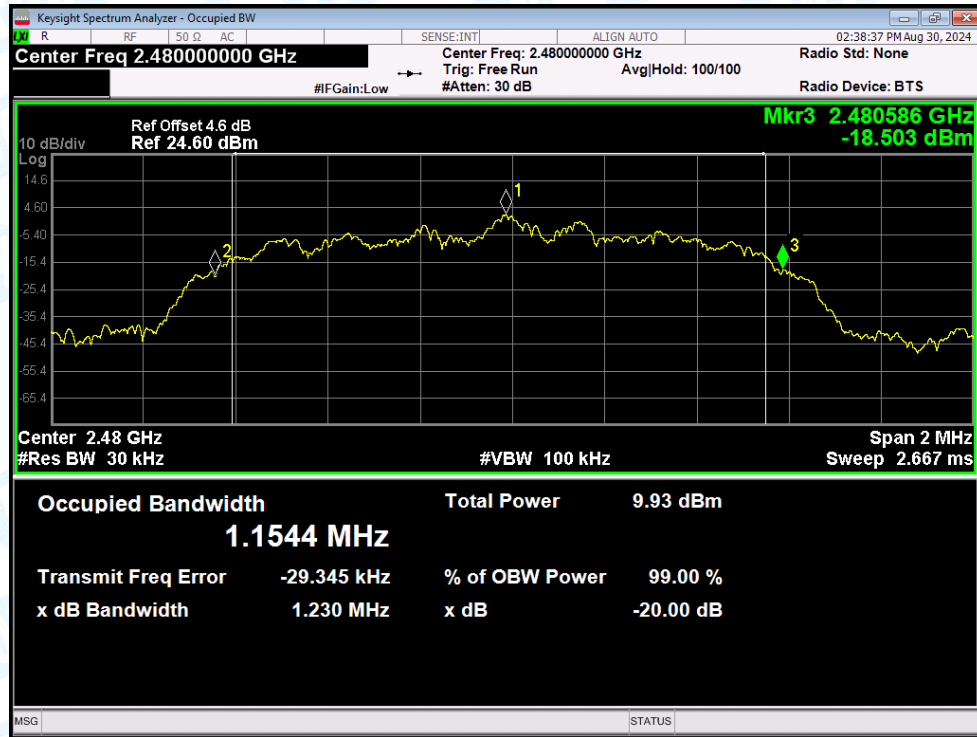
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



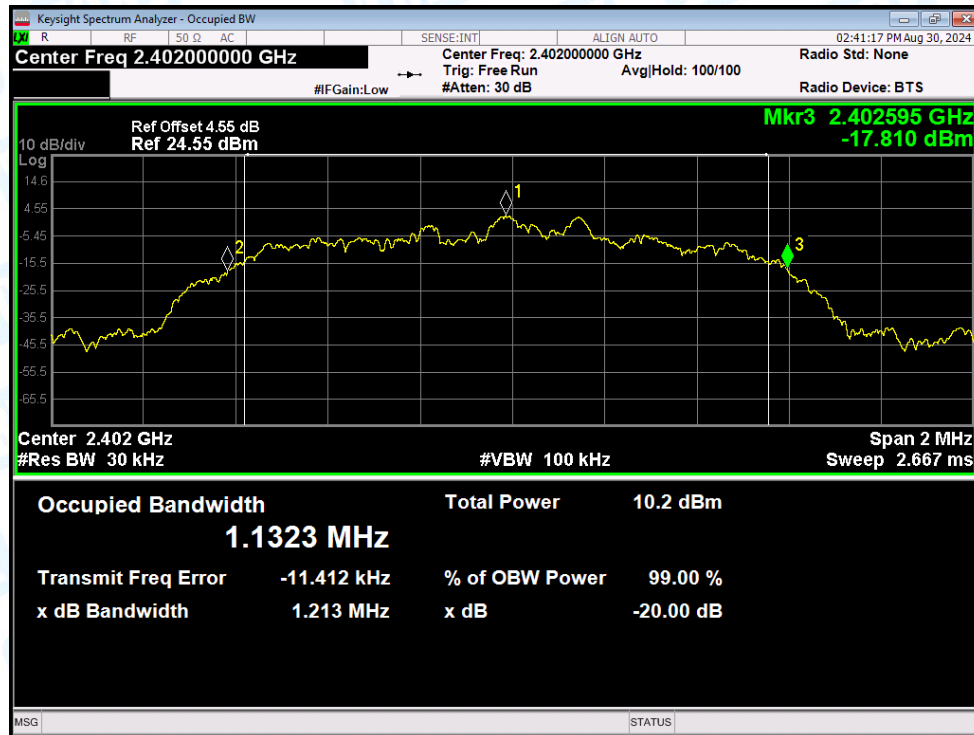
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



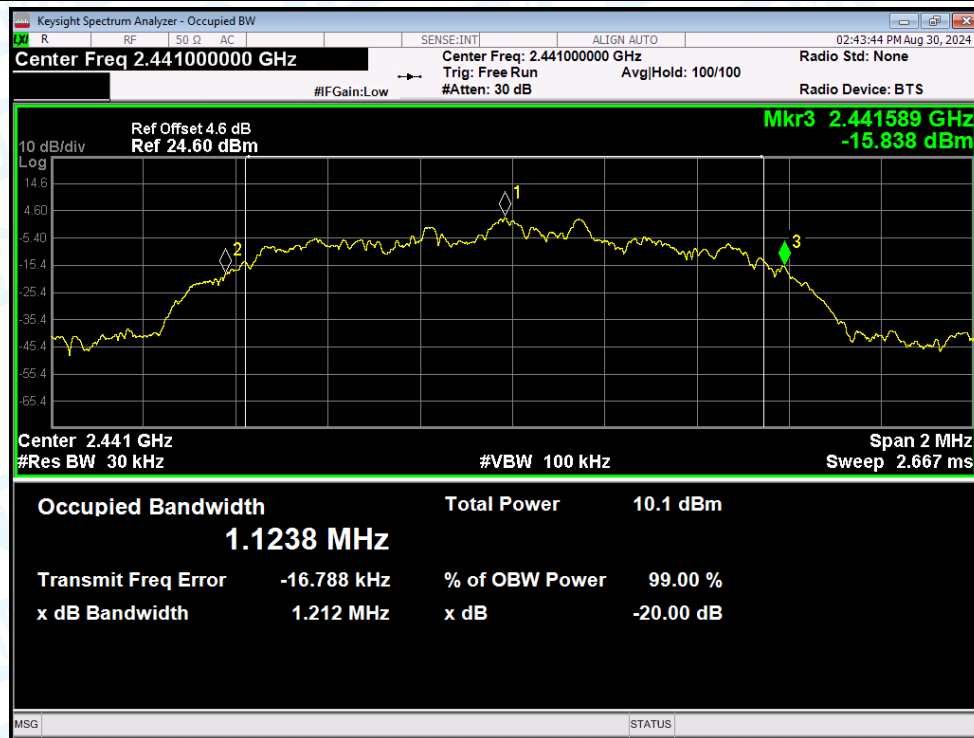
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

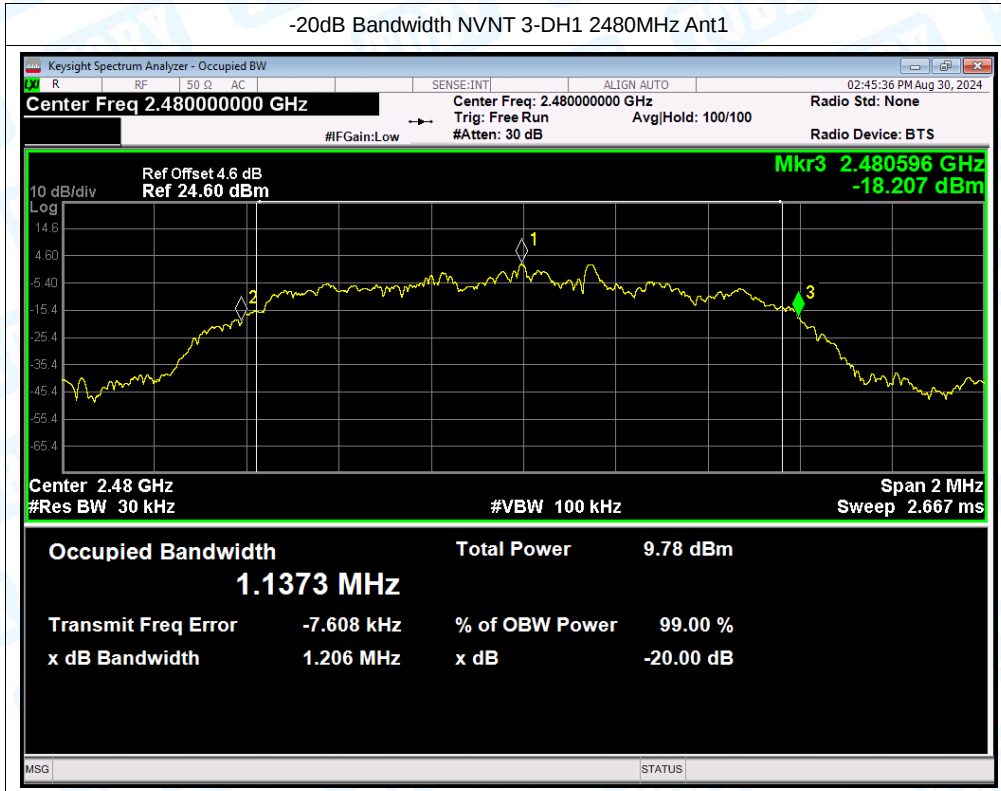


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



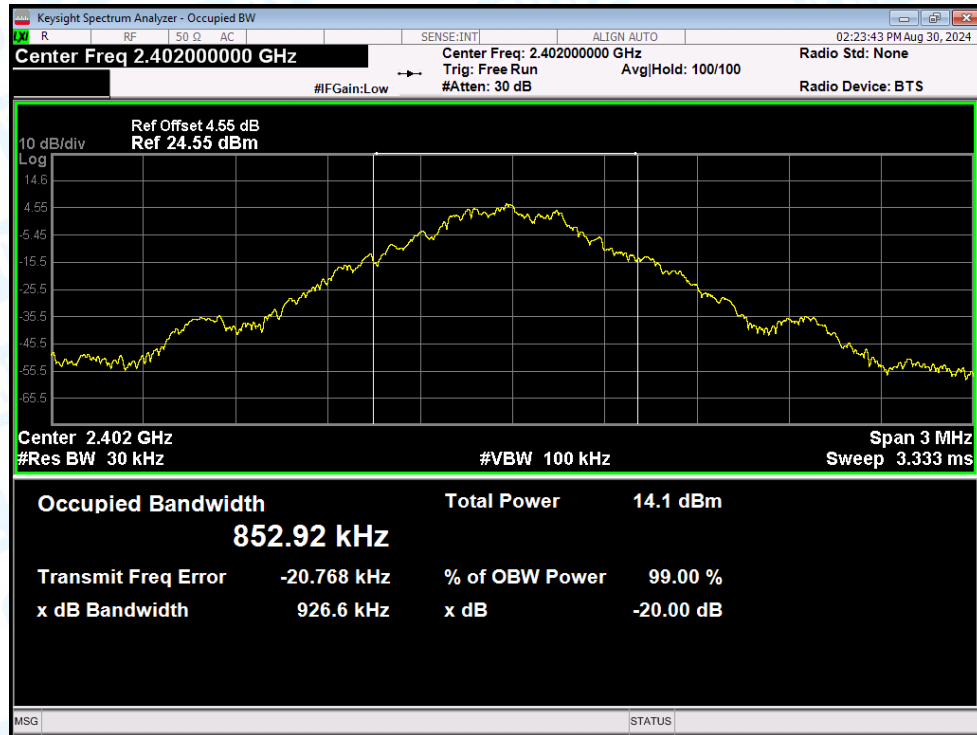


4. Occupied Channel Bandwidth

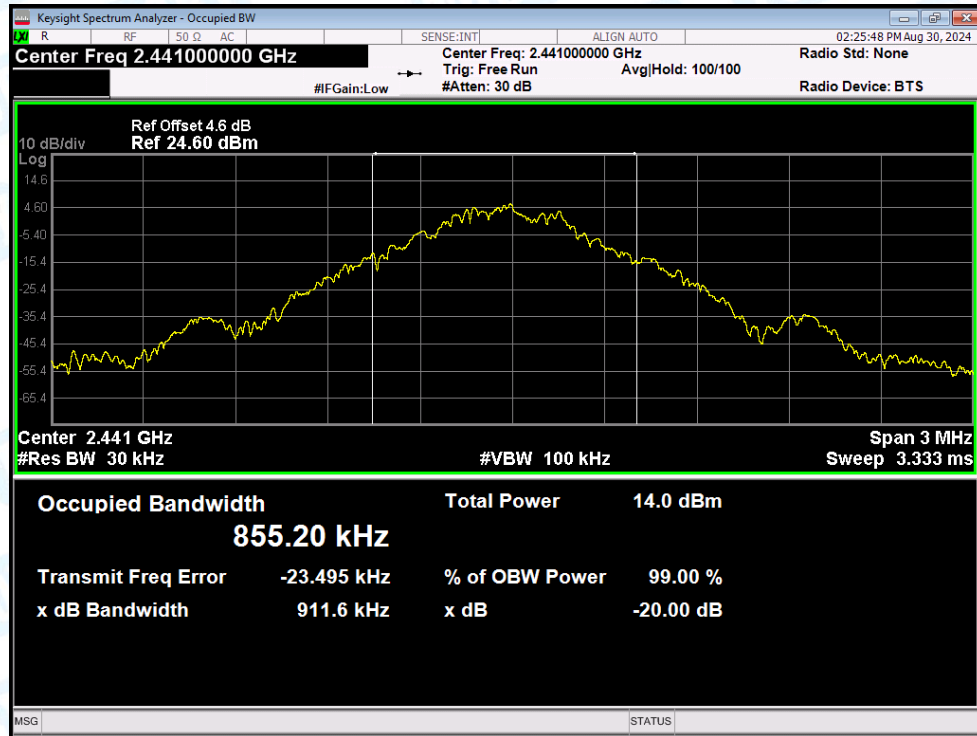
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.853
NVNT	1-DH1	2441	Ant1	0.855
NVNT	1-DH1	2480	Ant1	0.859
NVNT	2-DH1	2402	Ant1	1.129
NVNT	2-DH1	2441	Ant1	1.156
NVNT	2-DH1	2480	Ant1	1.159
NVNT	3-DH1	2402	Ant1	1.136
NVNT	3-DH1	2441	Ant1	1.131
NVNT	3-DH1	2480	Ant1	1.136

Test Graphs

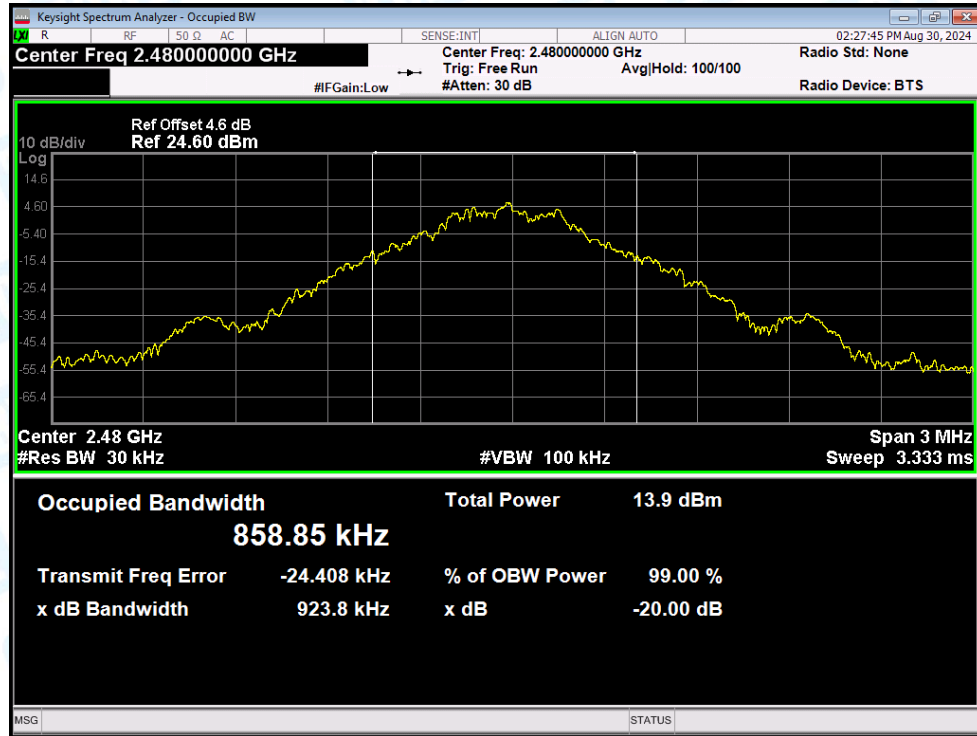
OBW NVNT 1-DH1 2402MHz Ant1



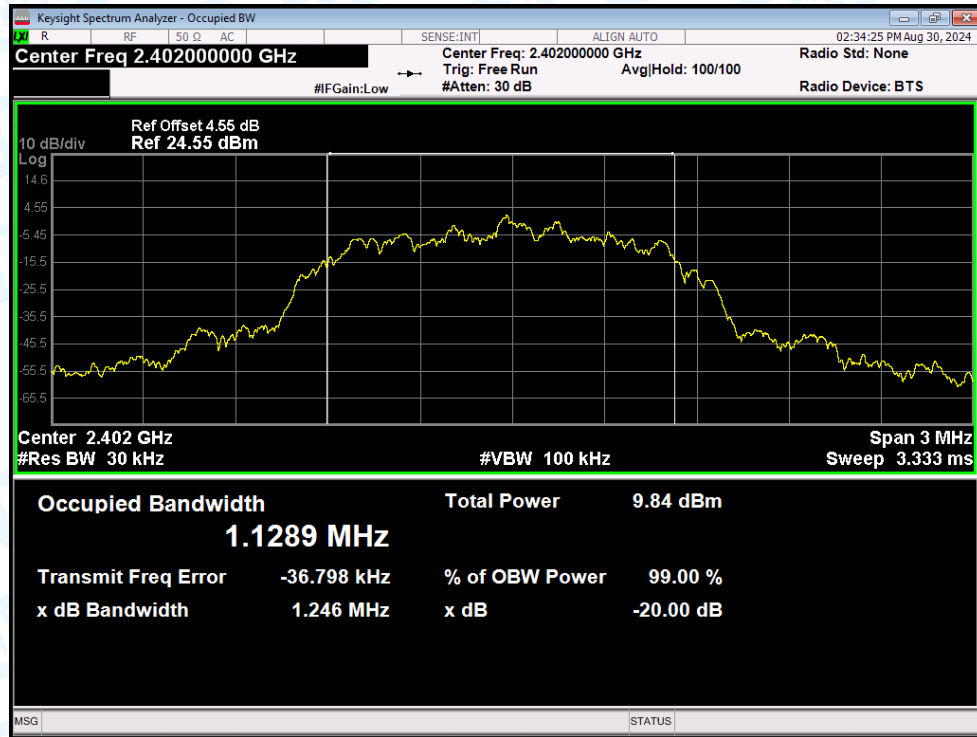
OBW NVNT 1-DH1 2441MHz Ant1



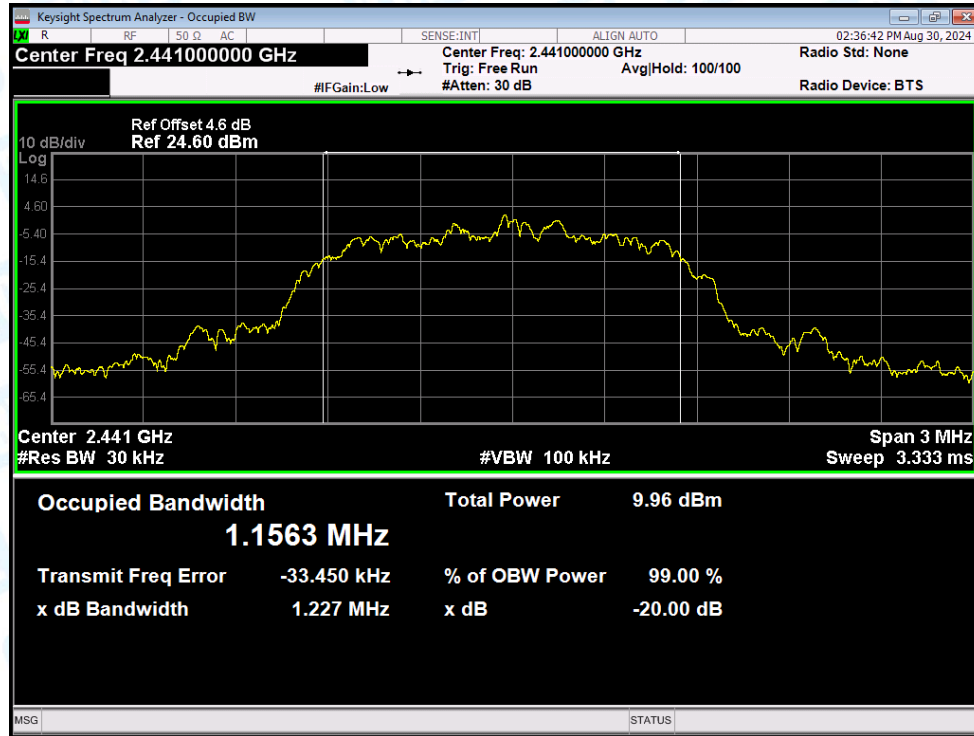
OBW NVNT 1-DH1 2480MHz Ant1



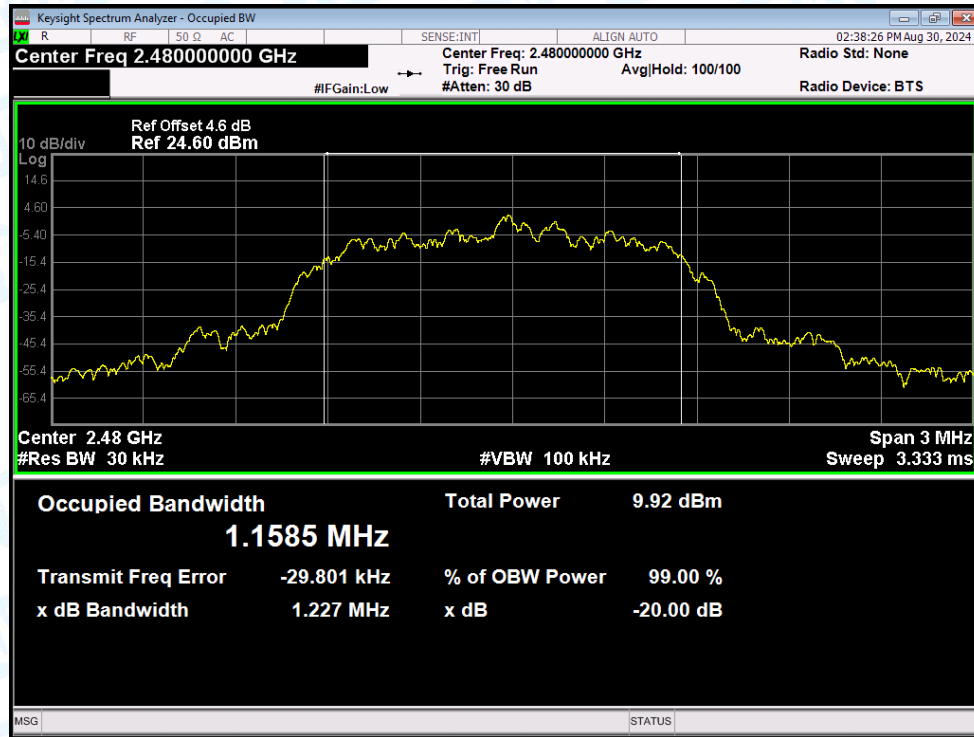
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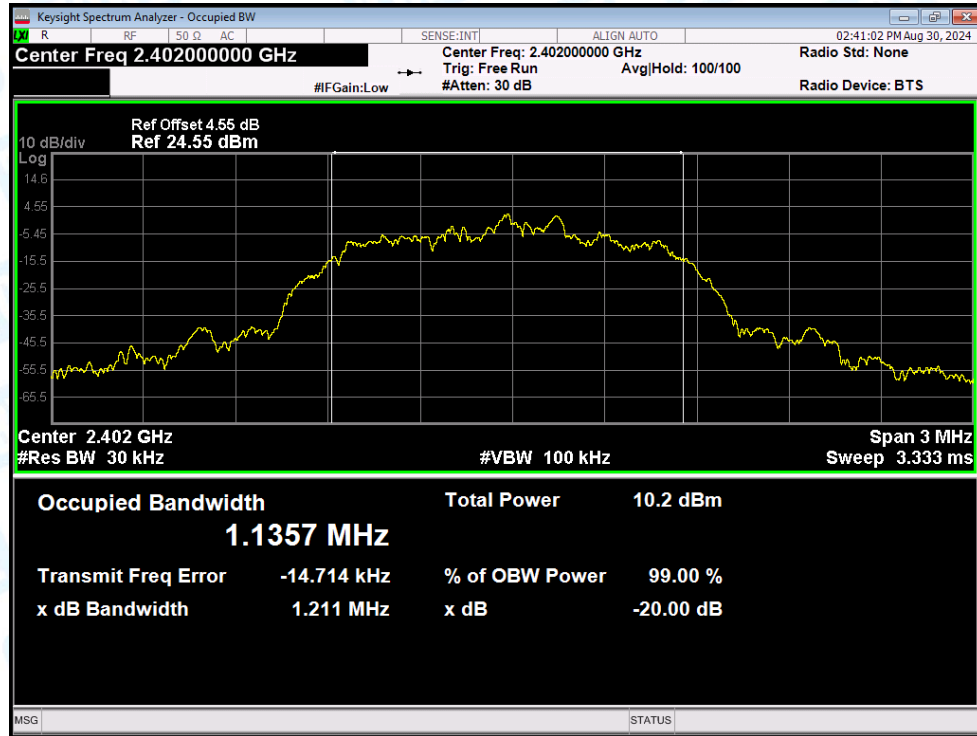
OBW NVNT 2-DH1 2441MHz Ant1



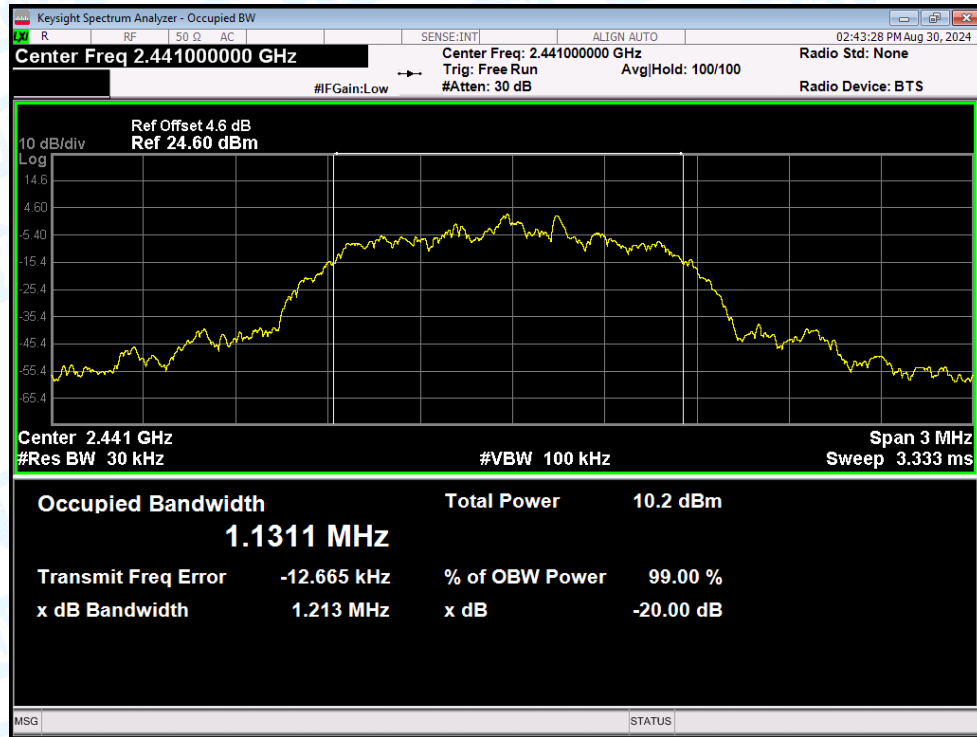
OBW NVNT 2-DH1 2480MHz Ant1



OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



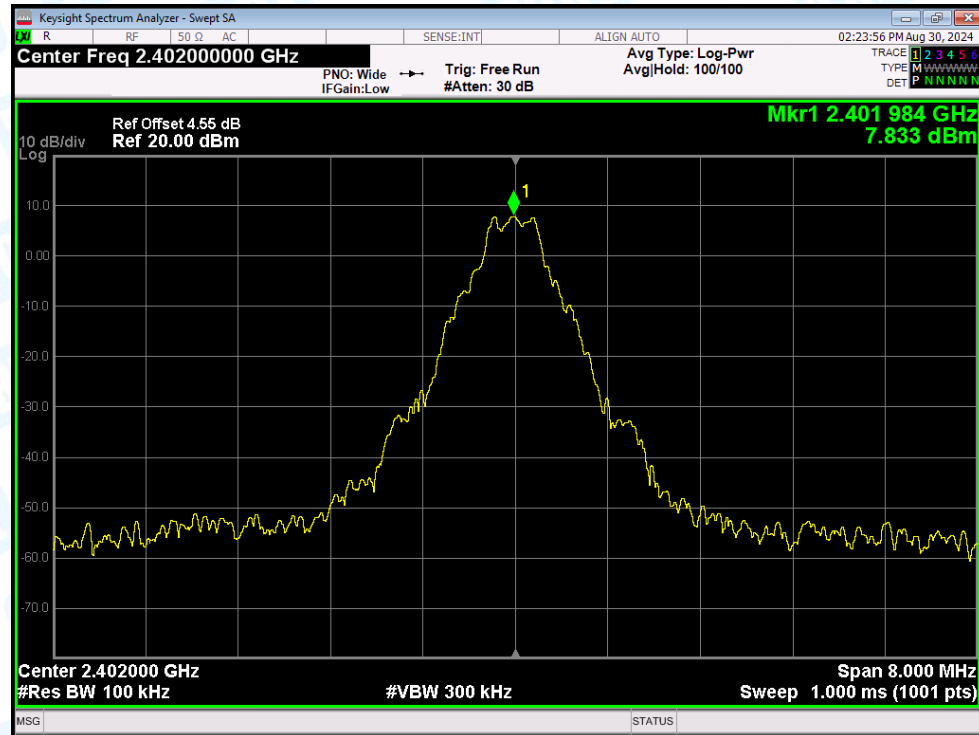


5. Band Edge

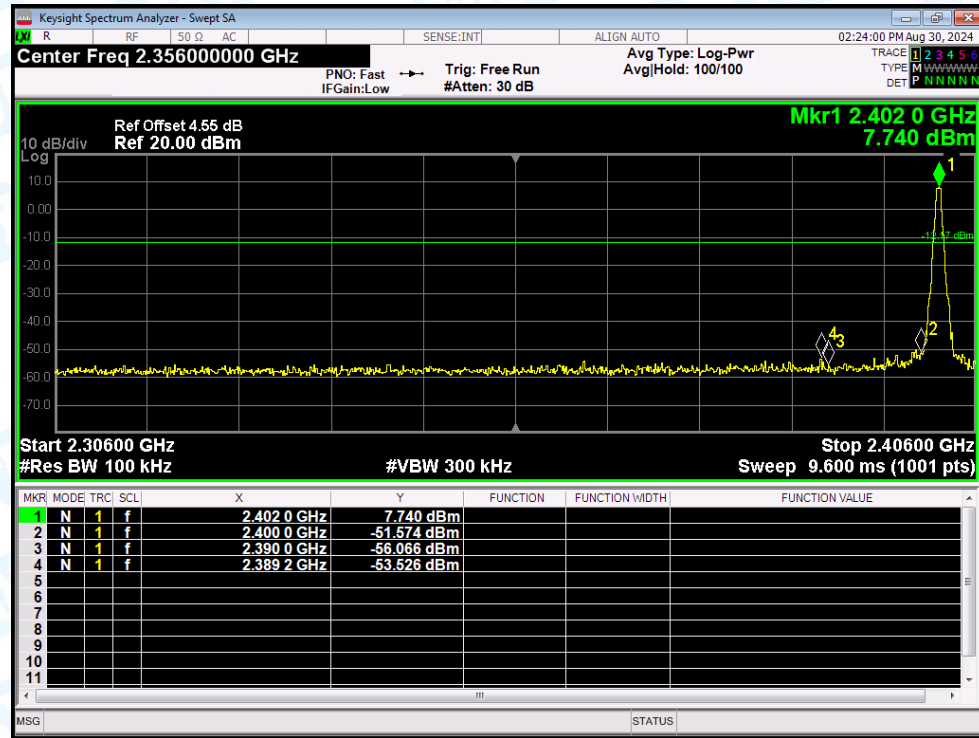
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-61.36	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-61.01	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-58.75	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-57.87	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-57.70	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-58.16	-20	Pass

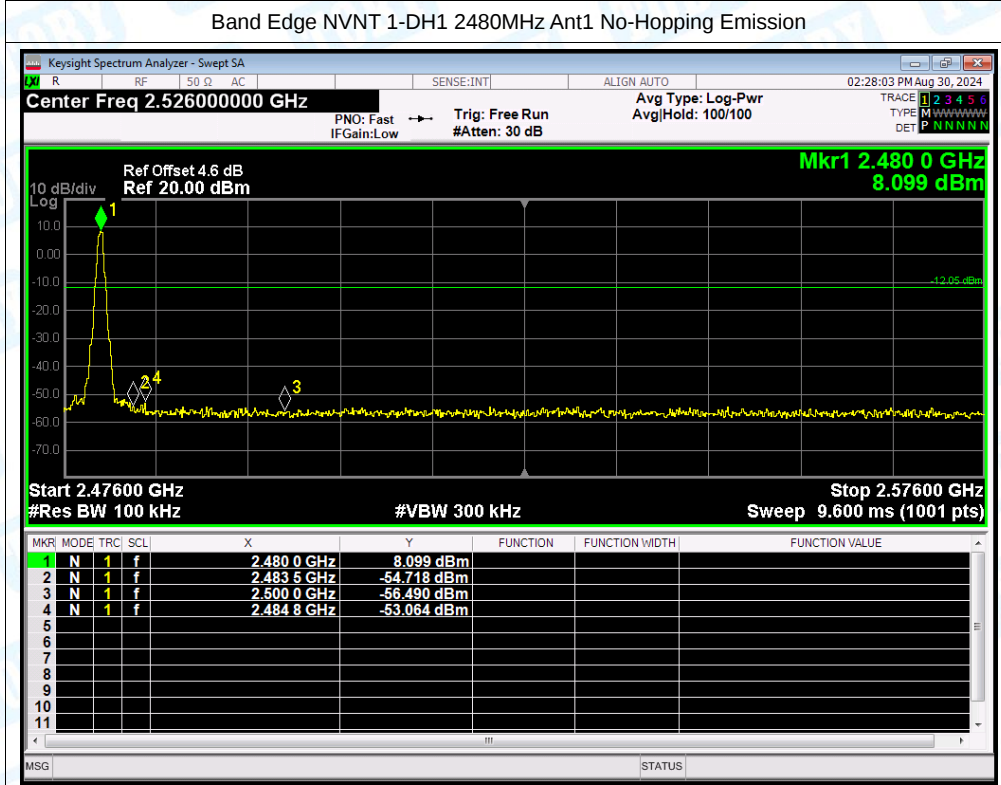
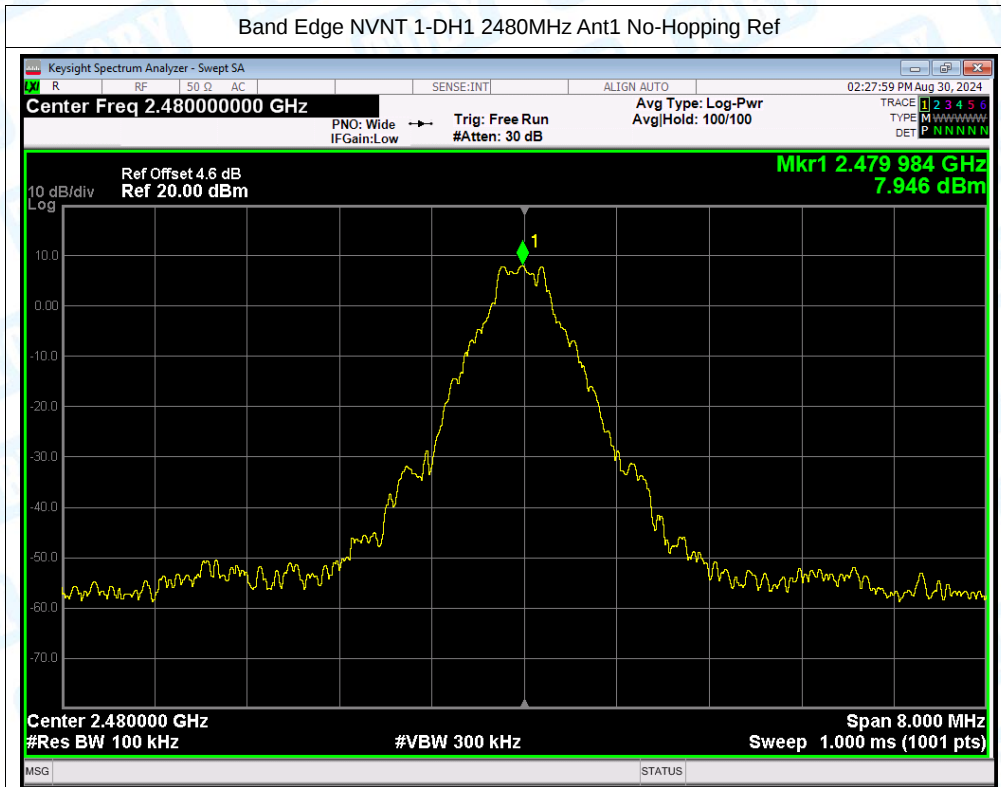
Test Graphs

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

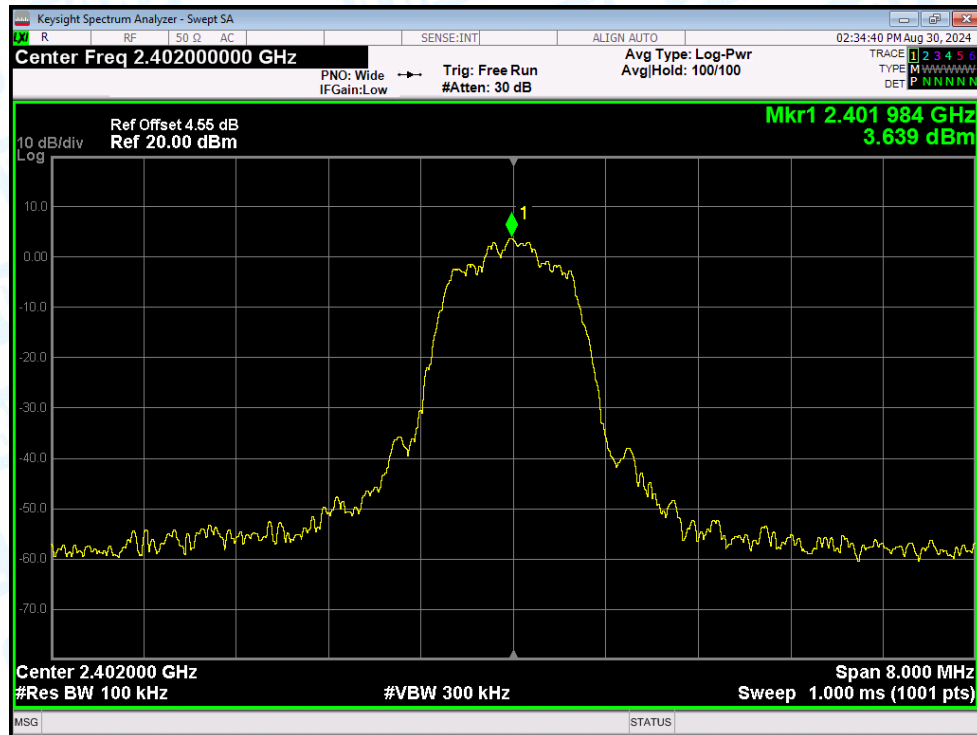


Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

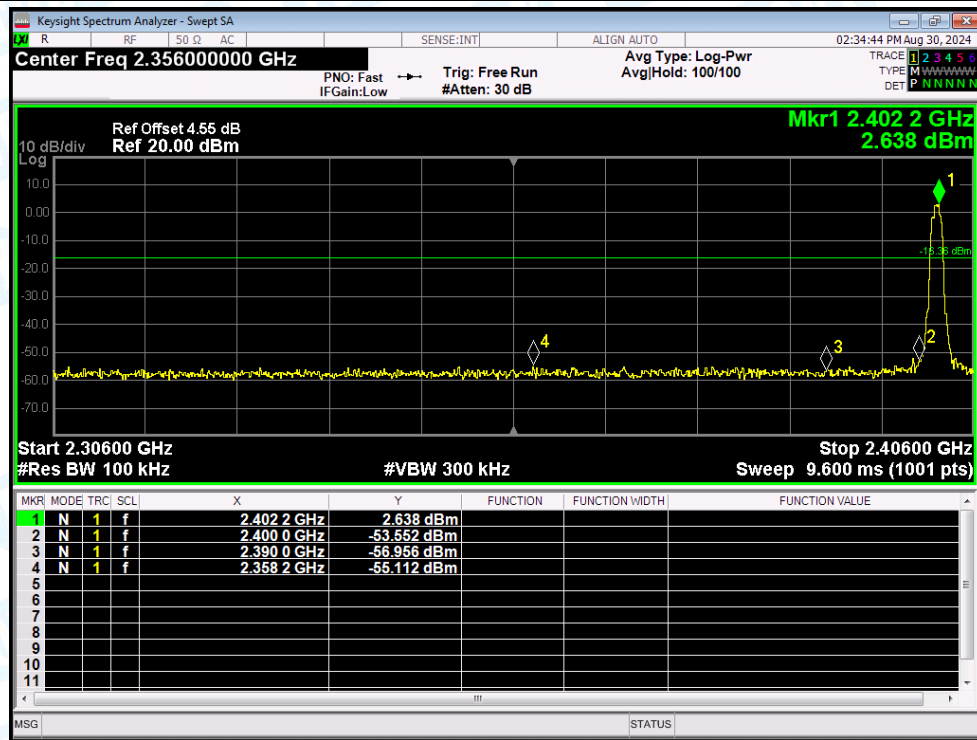




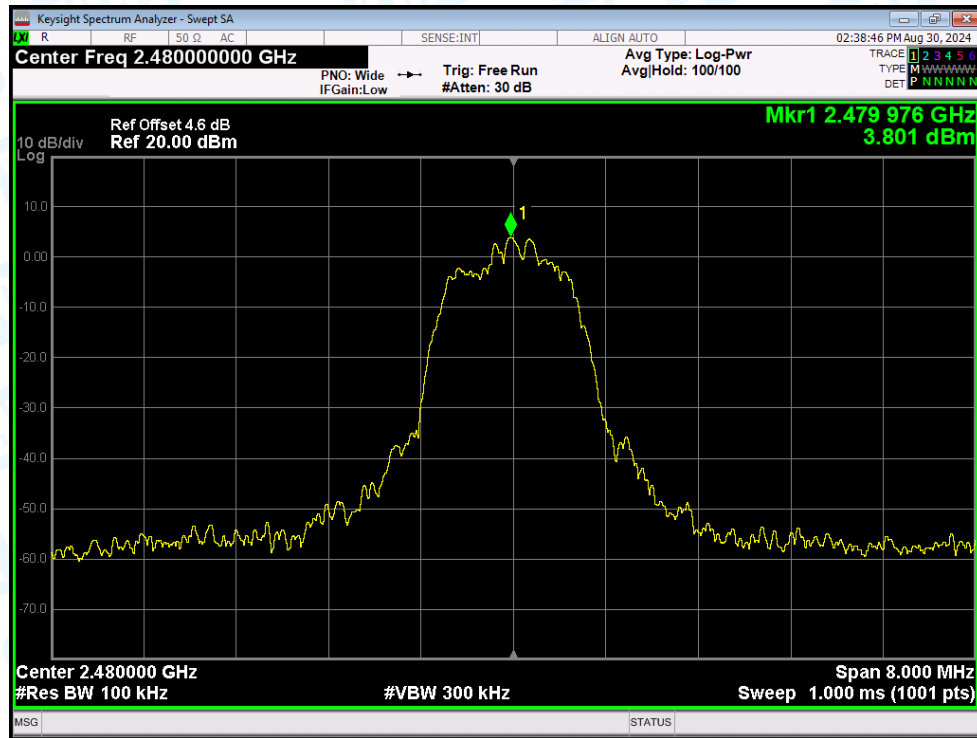
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



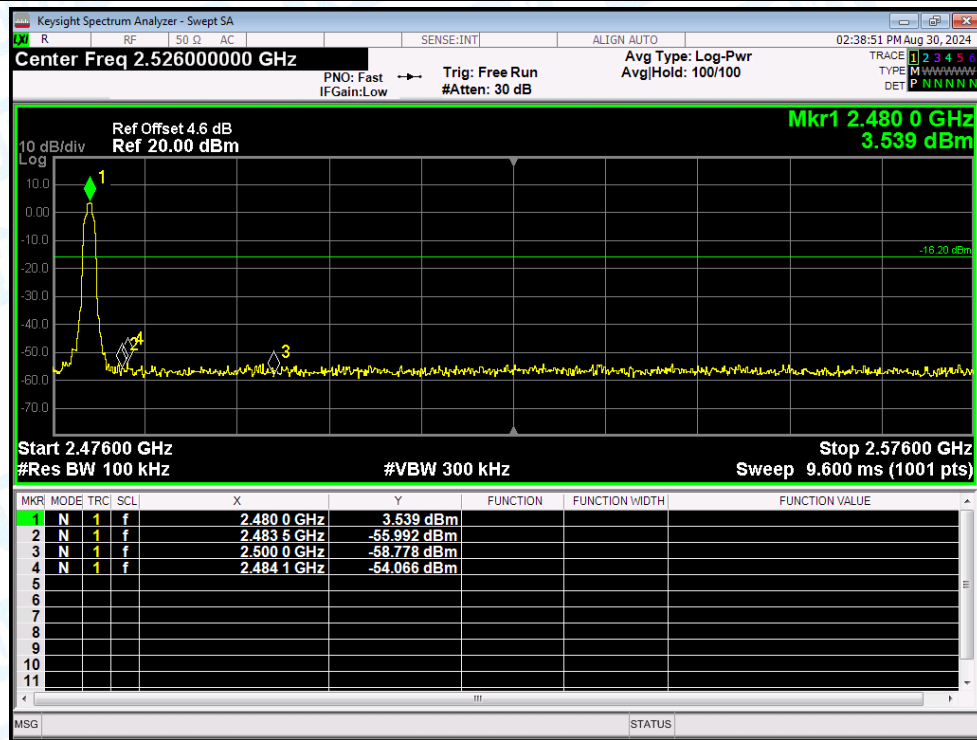
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



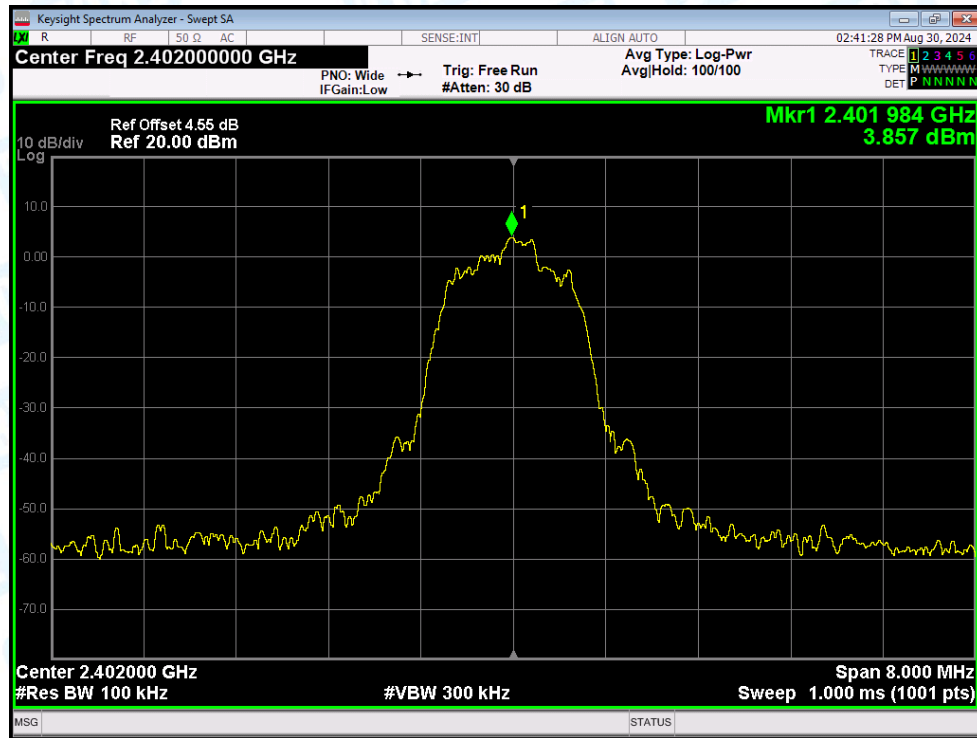
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



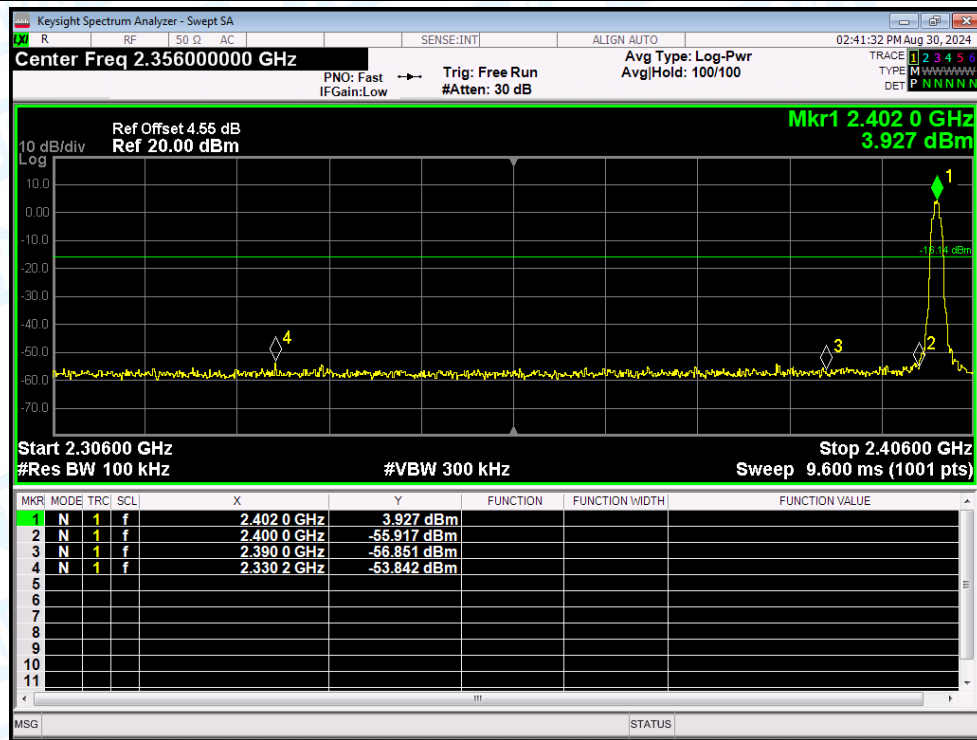
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



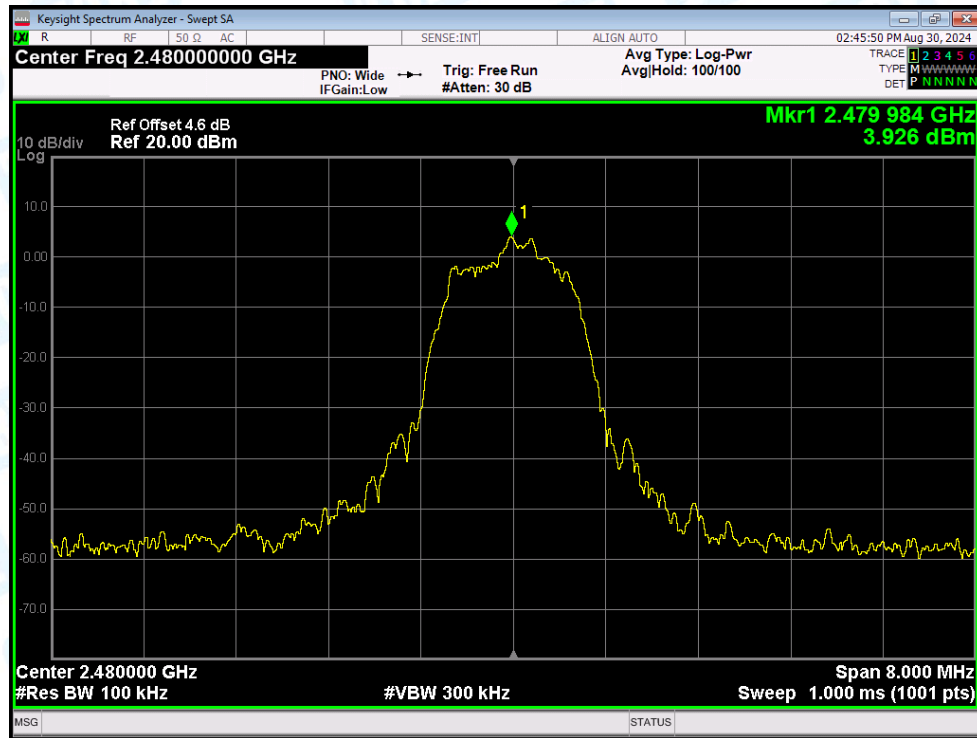
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



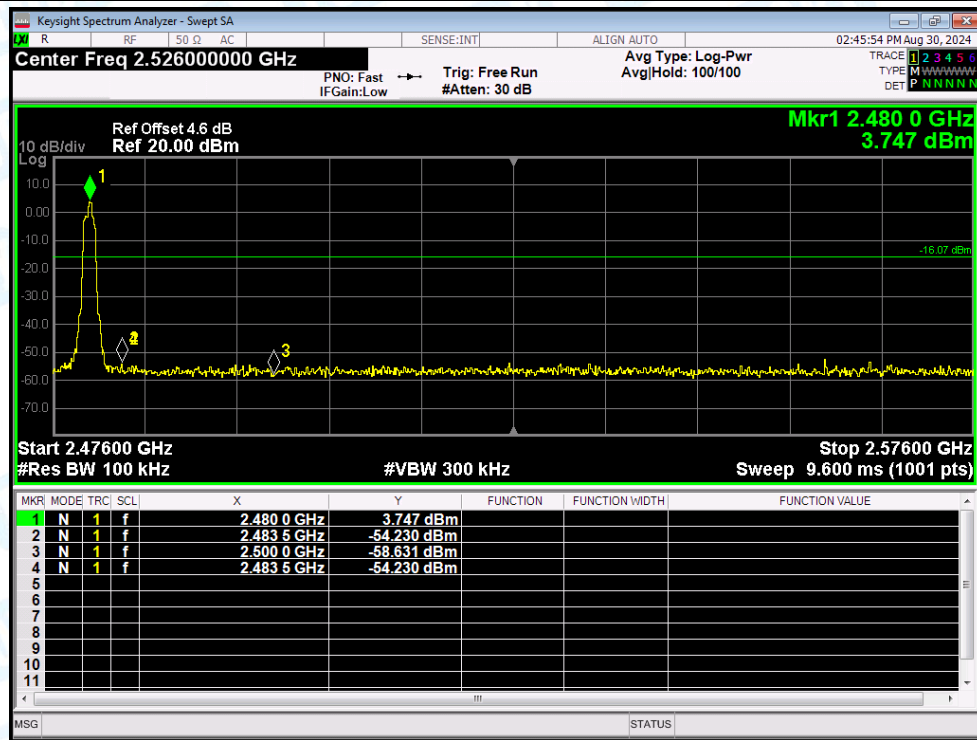
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

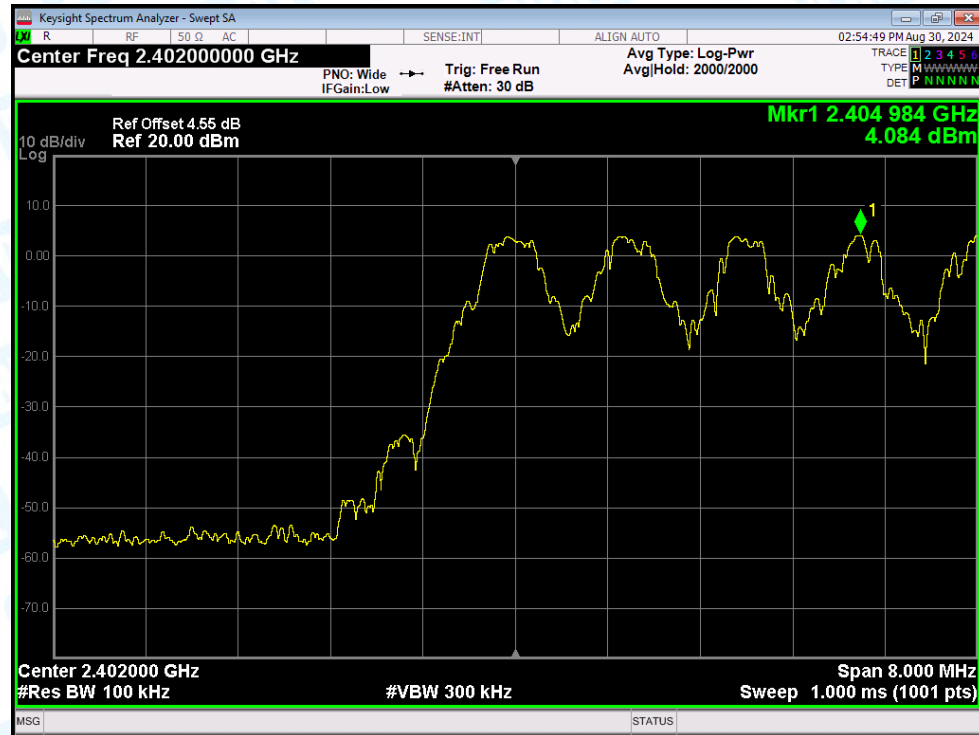


6. Band Edge(Hopping)

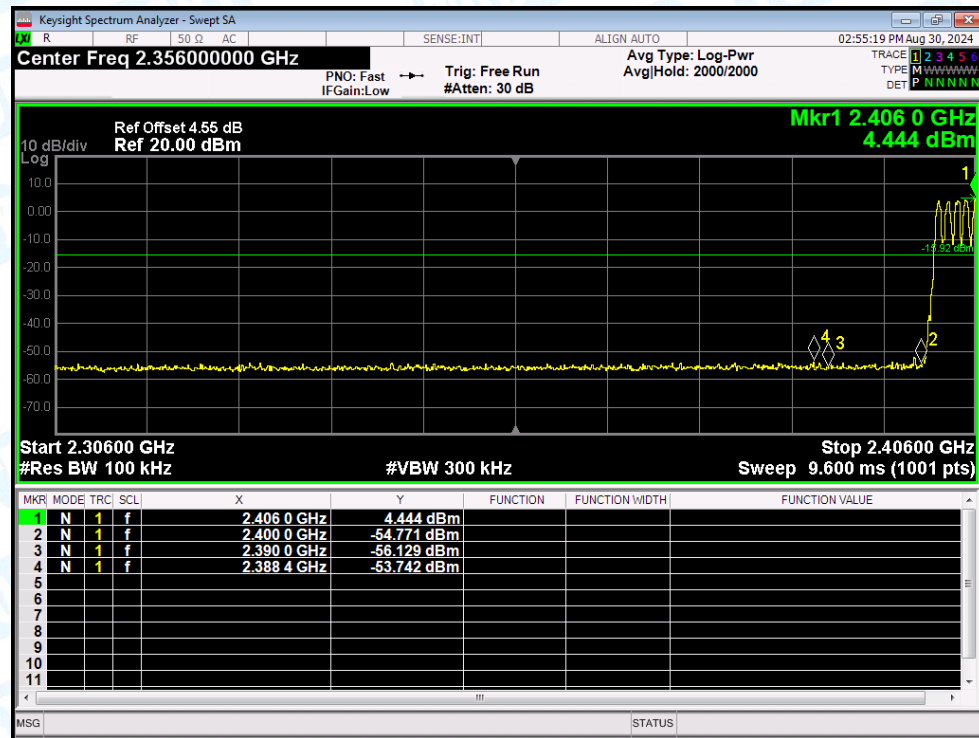
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-57.82	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-58.25	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-57.11	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-57.51	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-56.96	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-57.76	-20	Pass

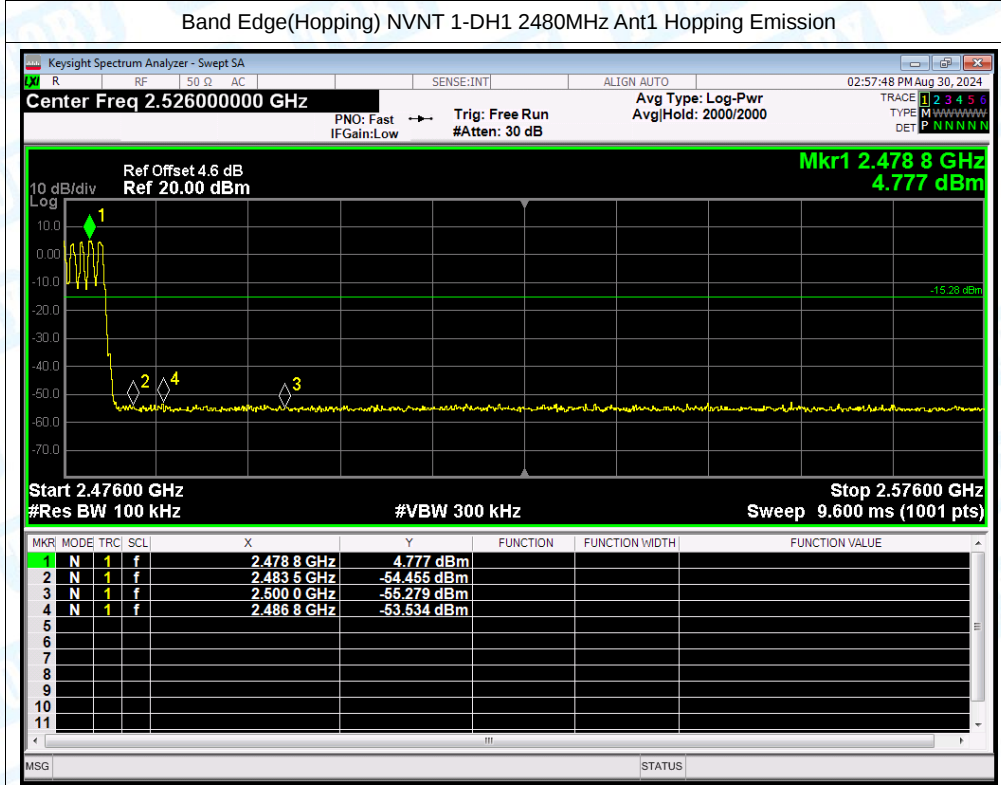
Test Graphs

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



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

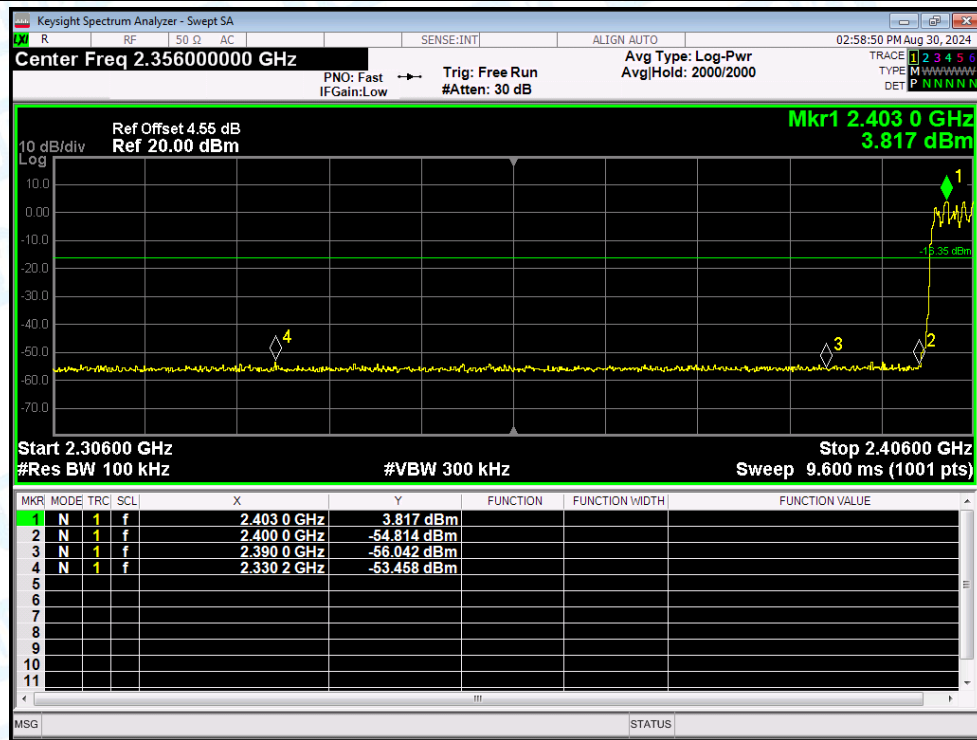


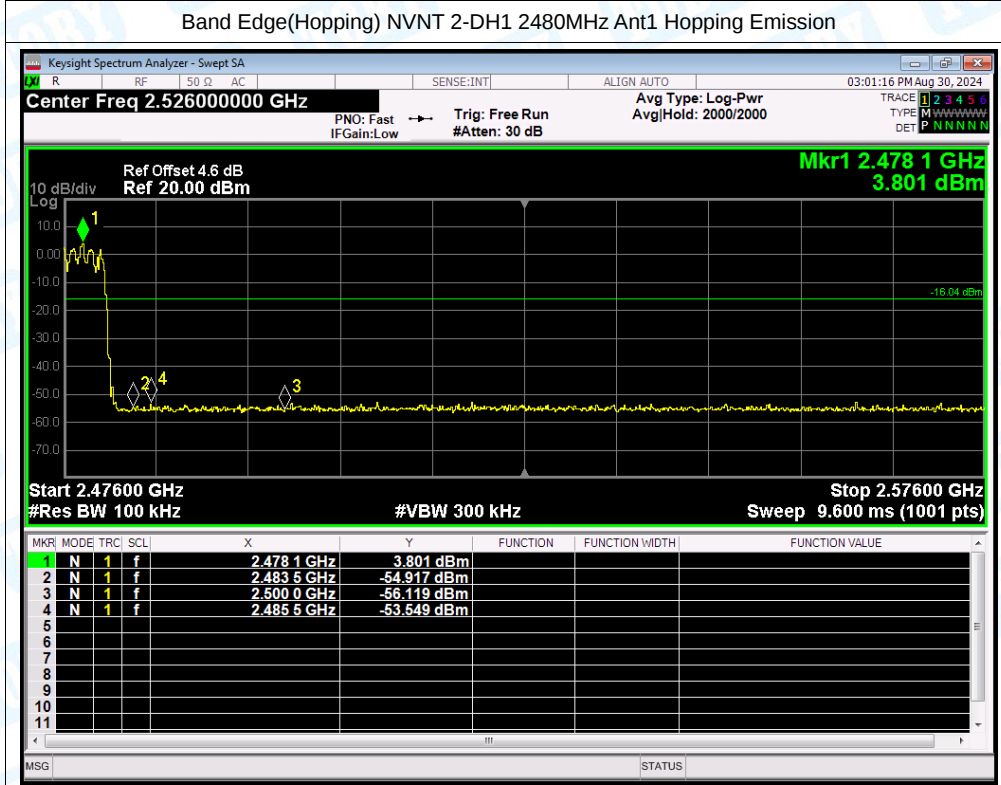
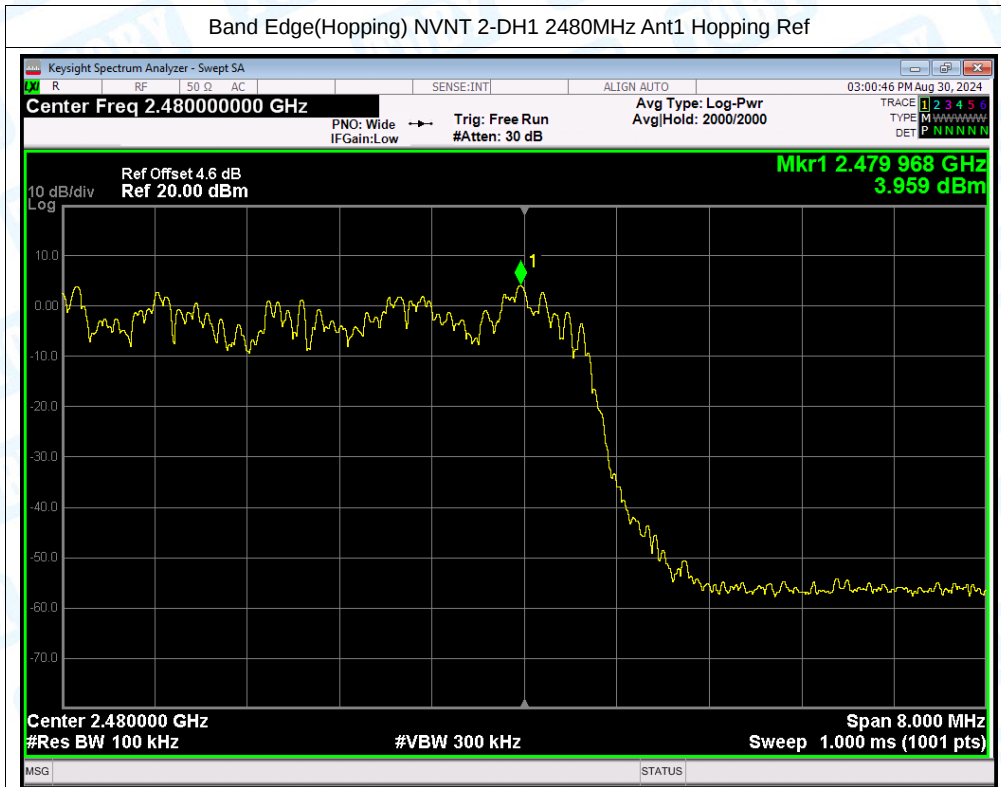


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



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

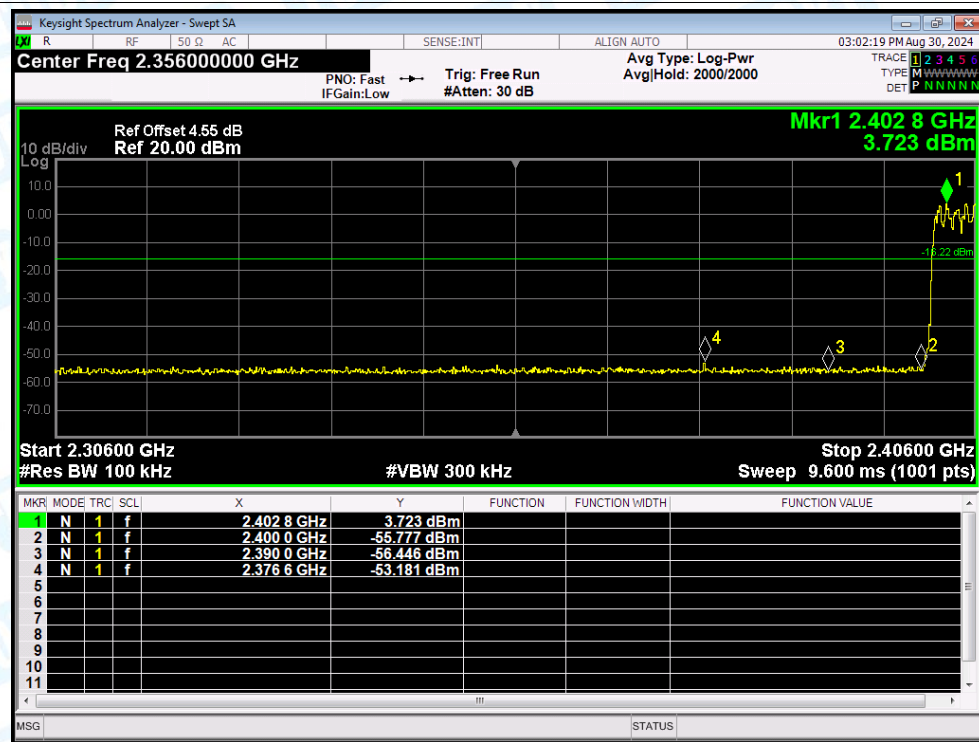


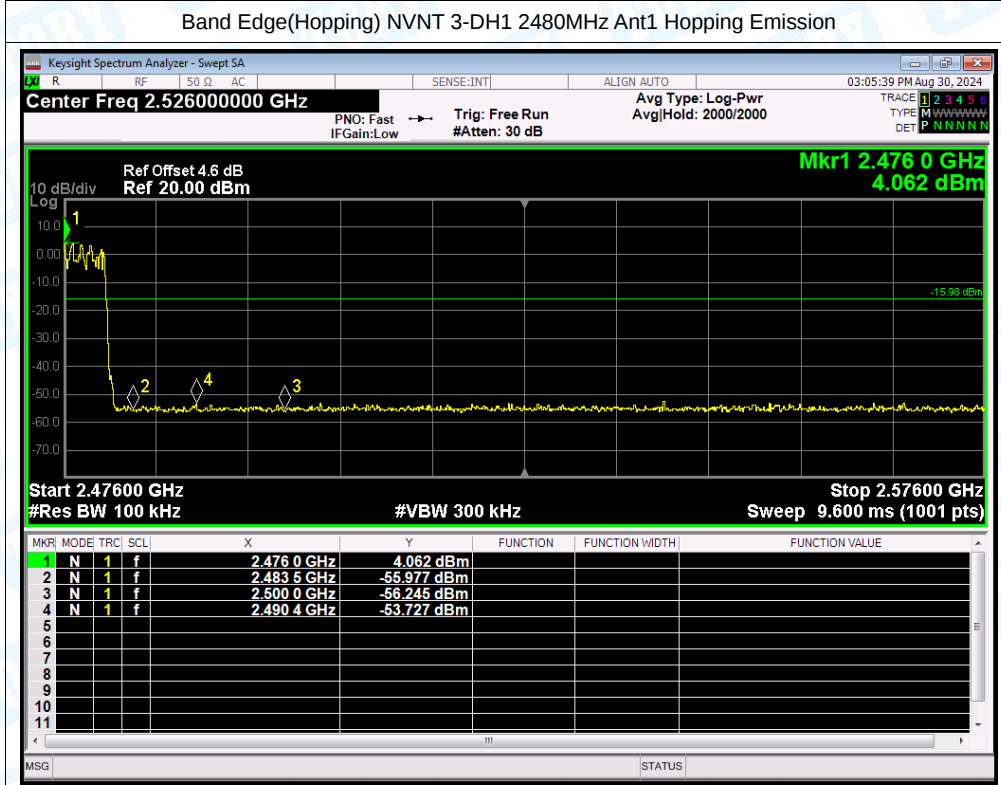


Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref



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



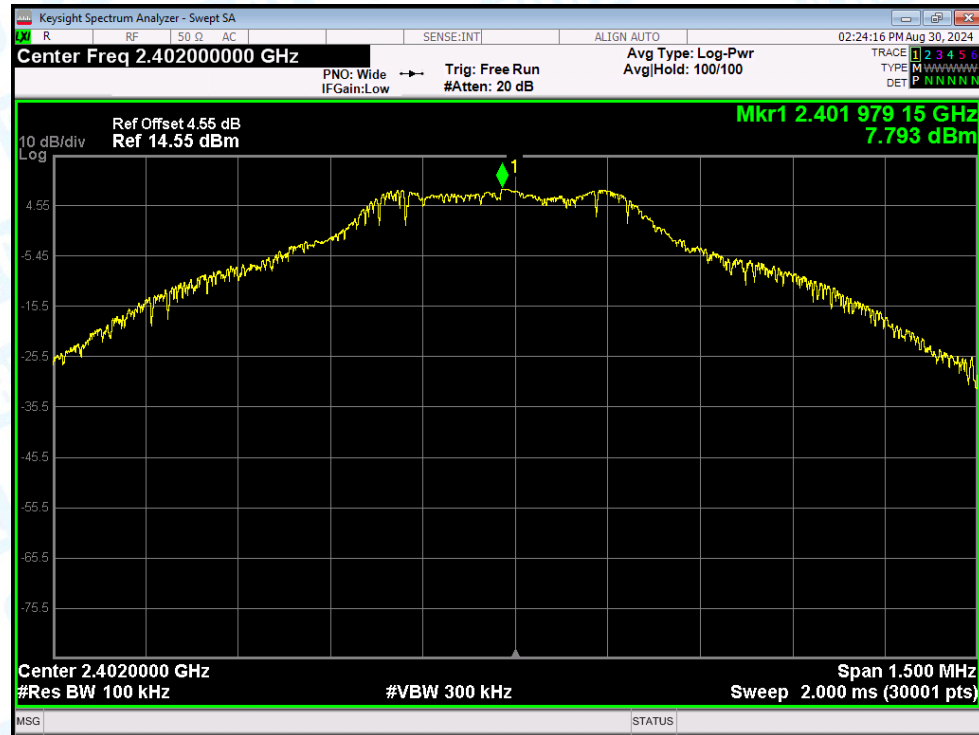


7. Conducted RF Spurious Emission

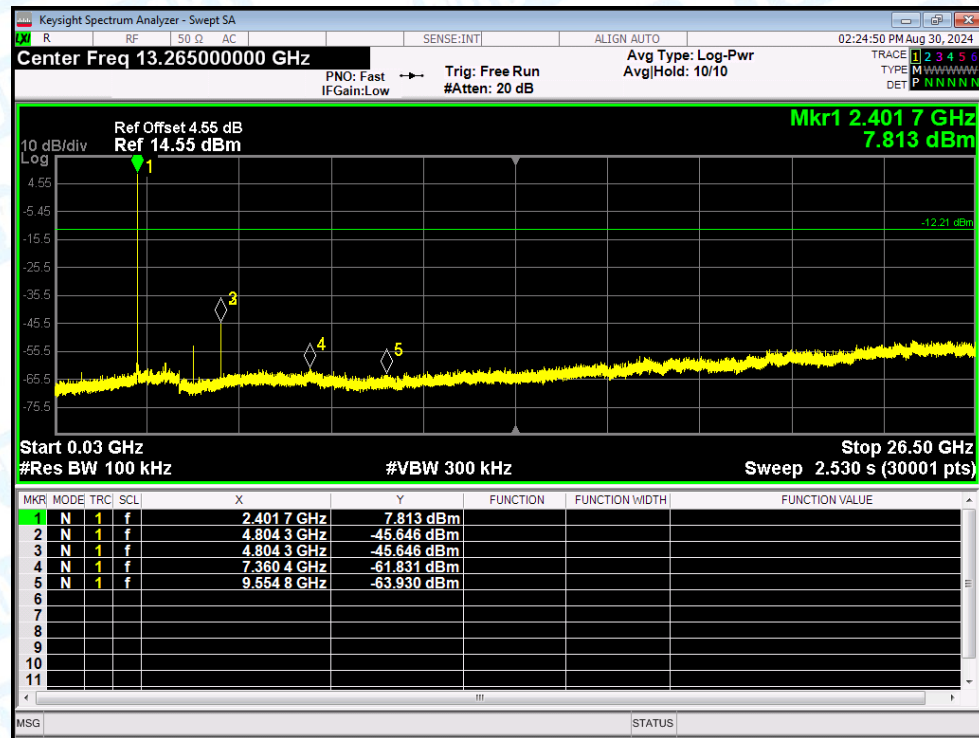
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-53.44	-20	Pass
NVNT	1-DH1	2441	Ant1	-54.43	-20	Pass
NVNT	1-DH1	2480	Ant1	-59.36	-20	Pass
NVNT	2-DH1	2402	Ant1	-54.55	-20	Pass
NVNT	2-DH1	2441	Ant1	-54.95	-20	Pass
NVNT	2-DH1	2480	Ant1	-54.55	-20	Pass
NVNT	3-DH1	2402	Ant1	-54.71	-20	Pass
NVNT	3-DH1	2441	Ant1	-54.64	-20	Pass
NVNT	3-DH1	2480	Ant1	-55.25	-20	Pass

Test Graphs

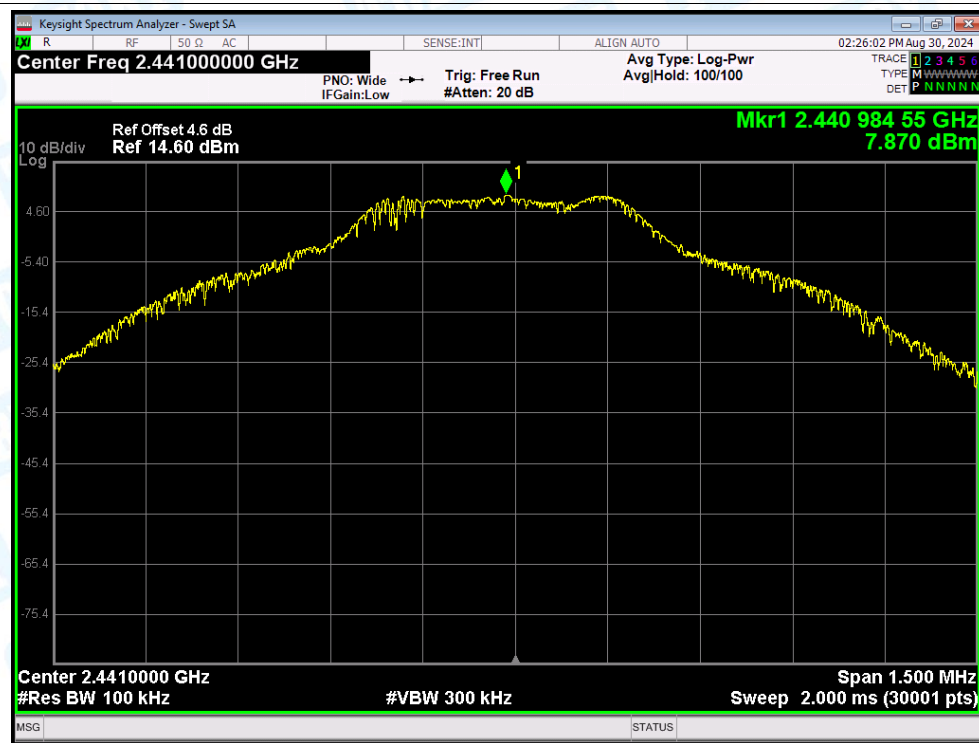
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



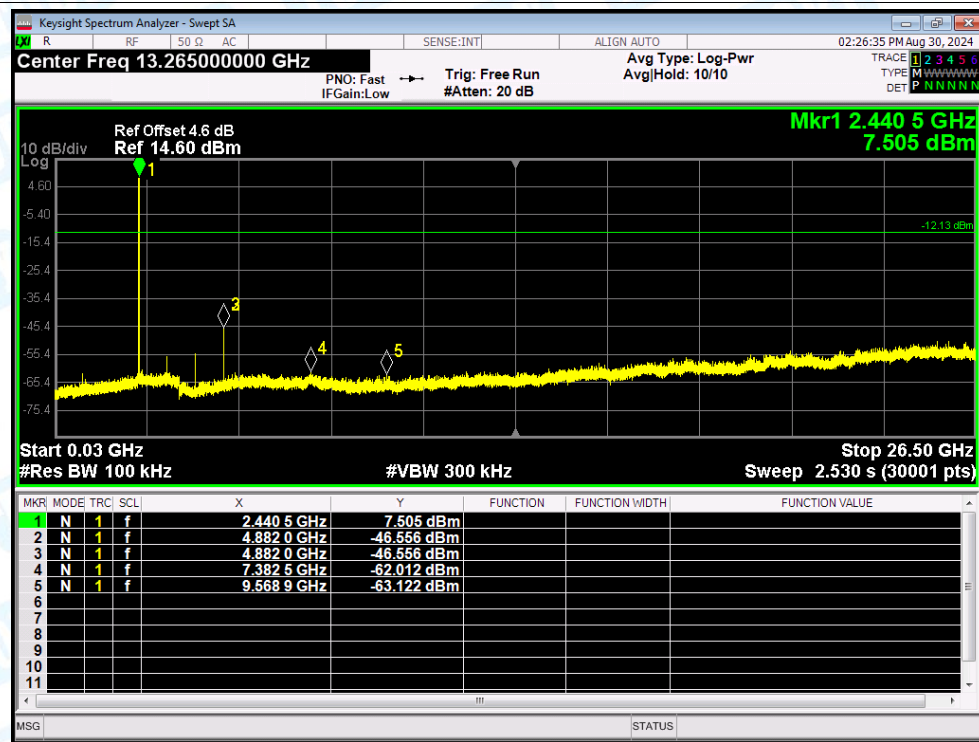
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



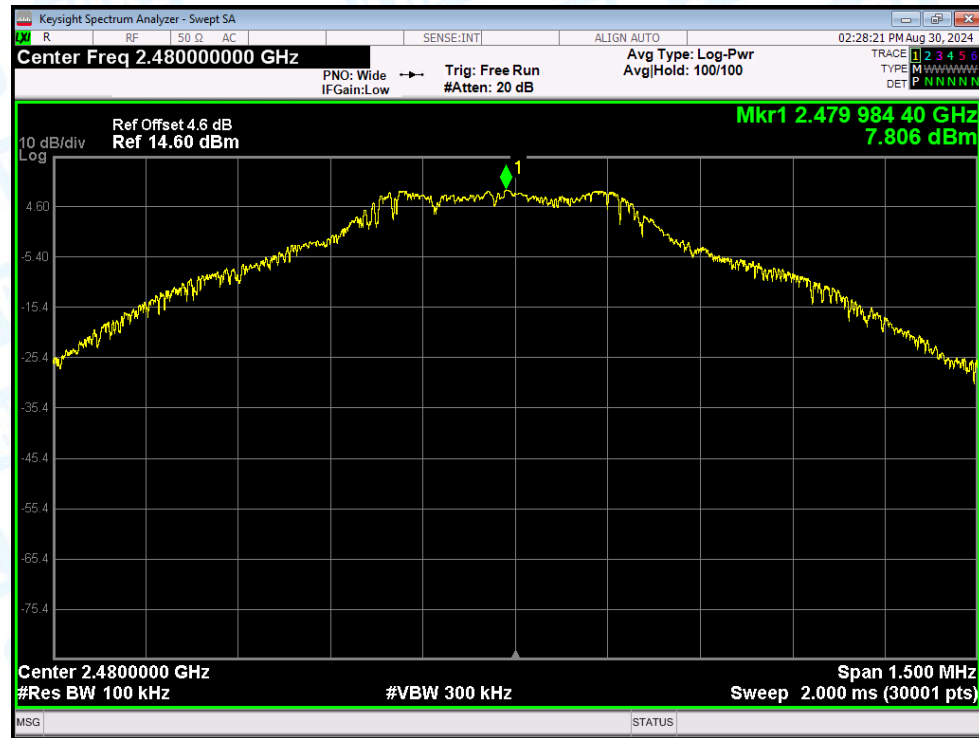
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



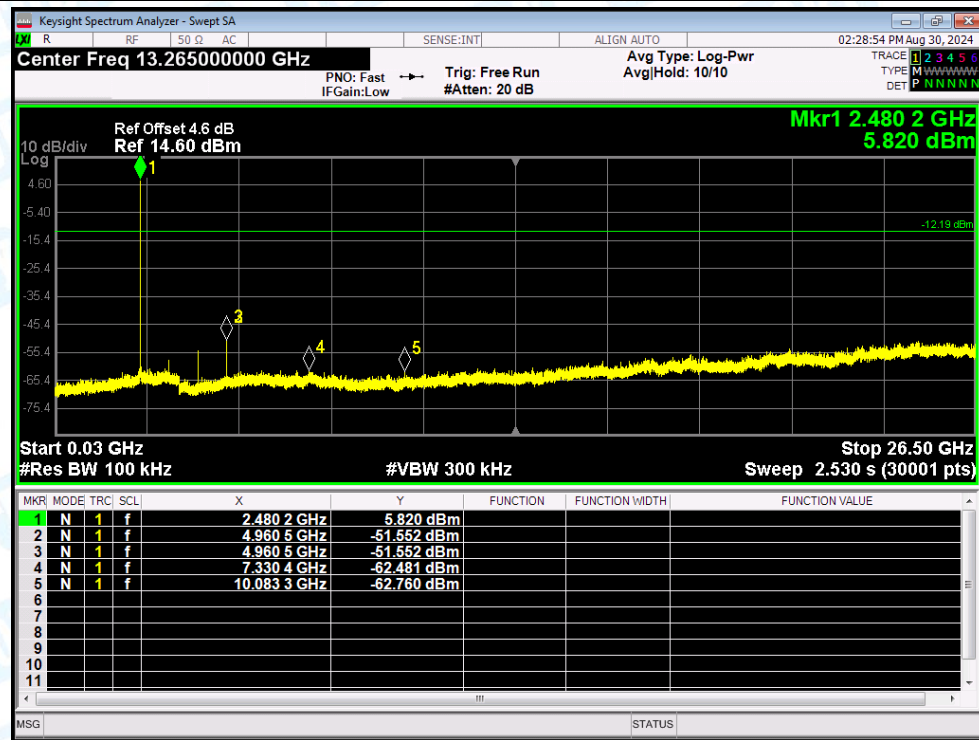
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



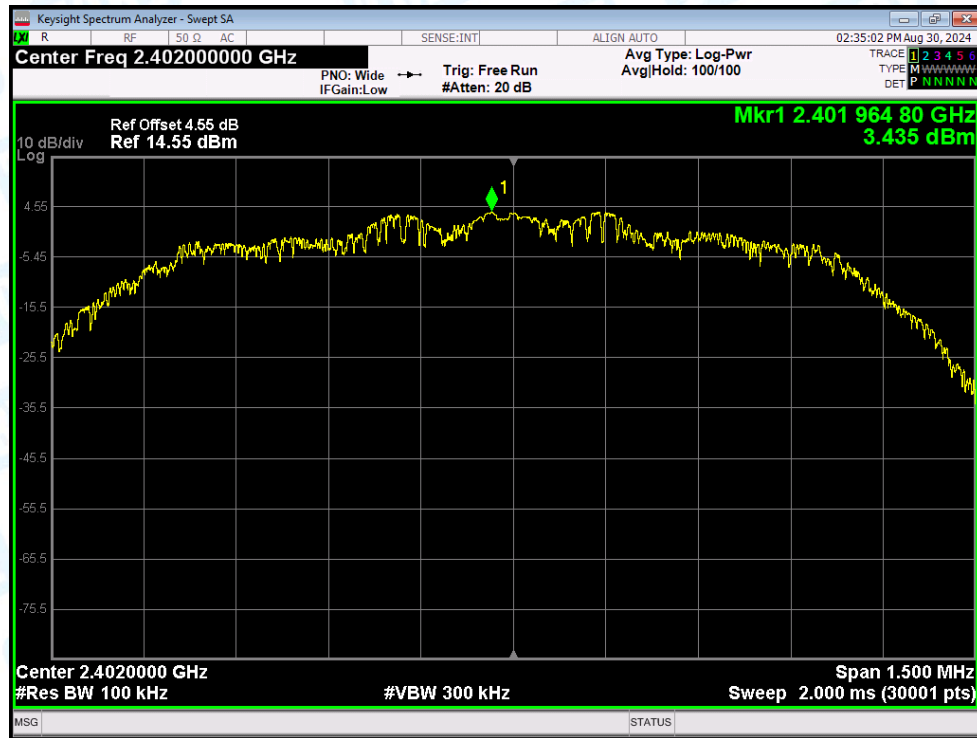
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



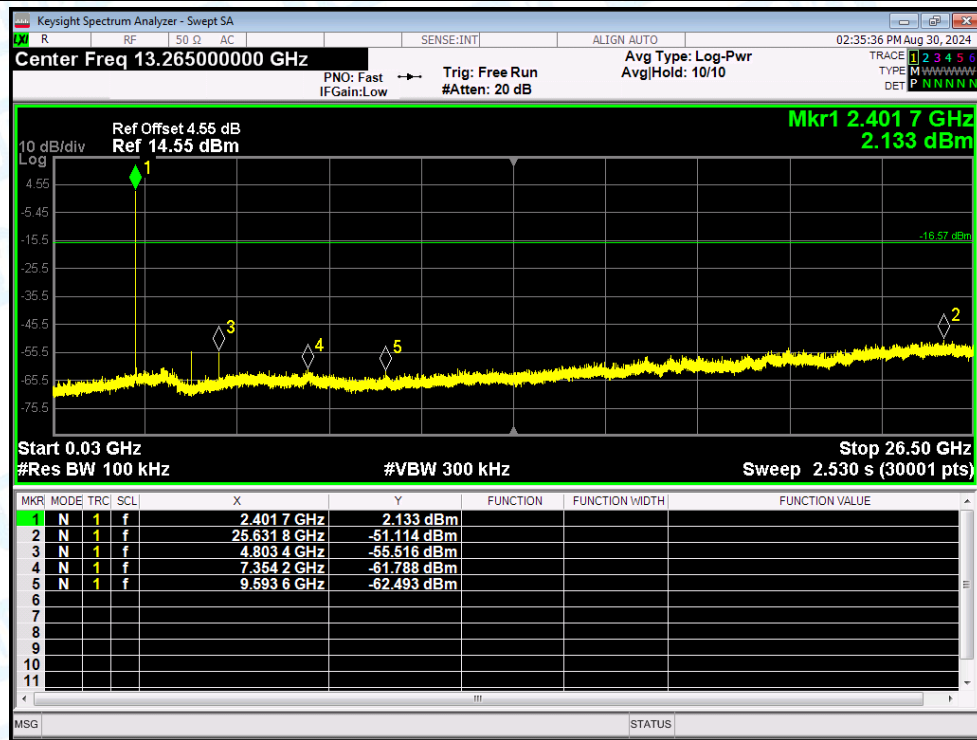
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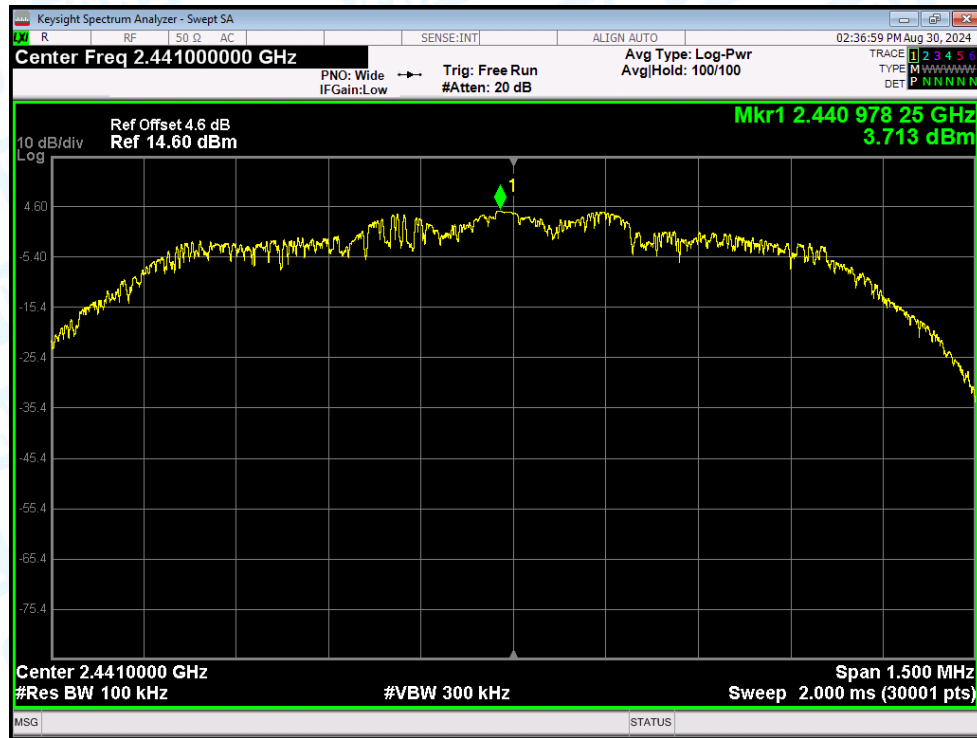
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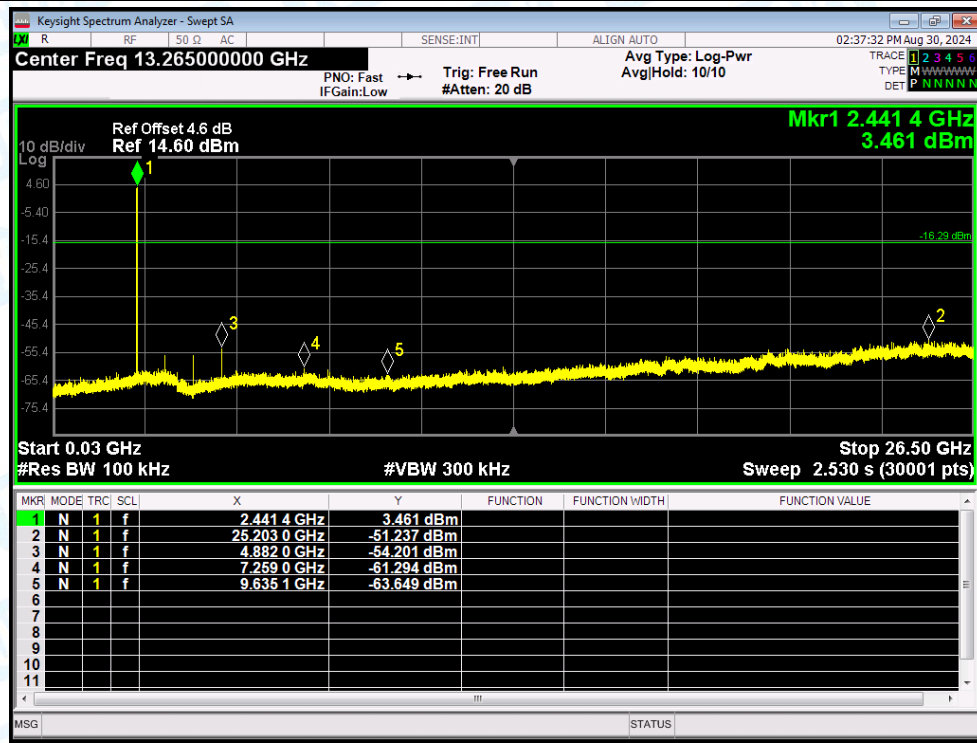
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



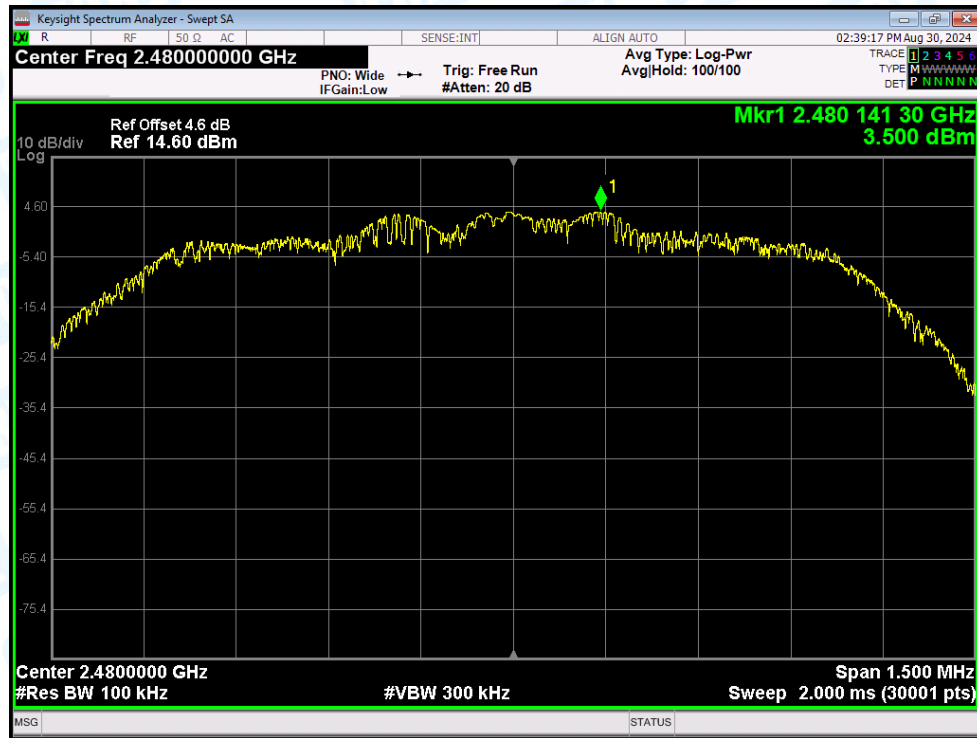
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



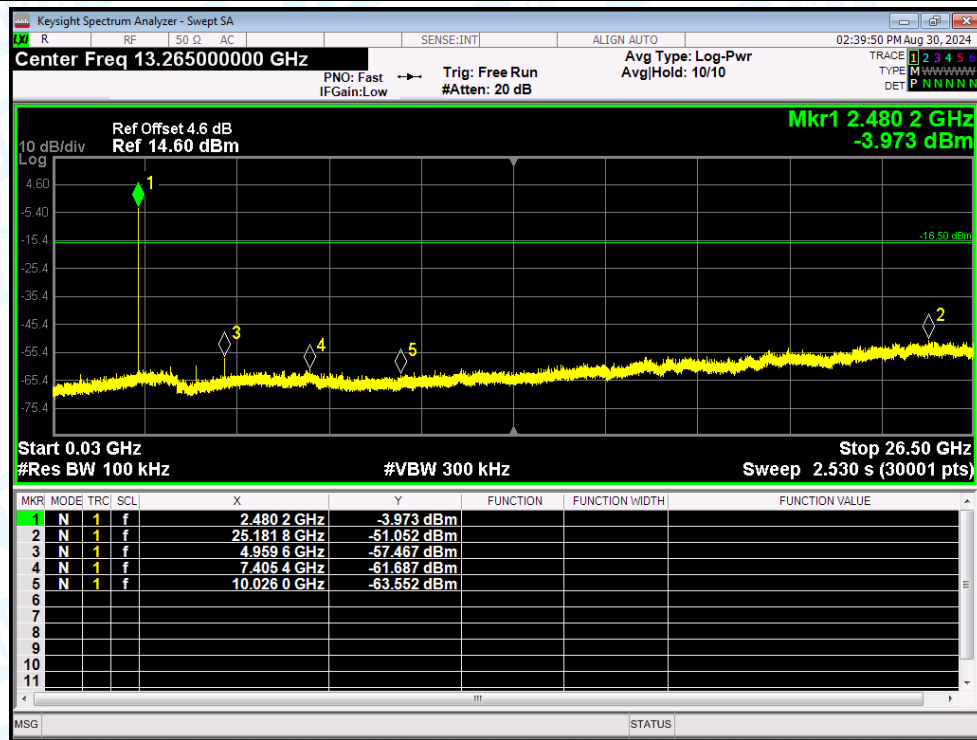
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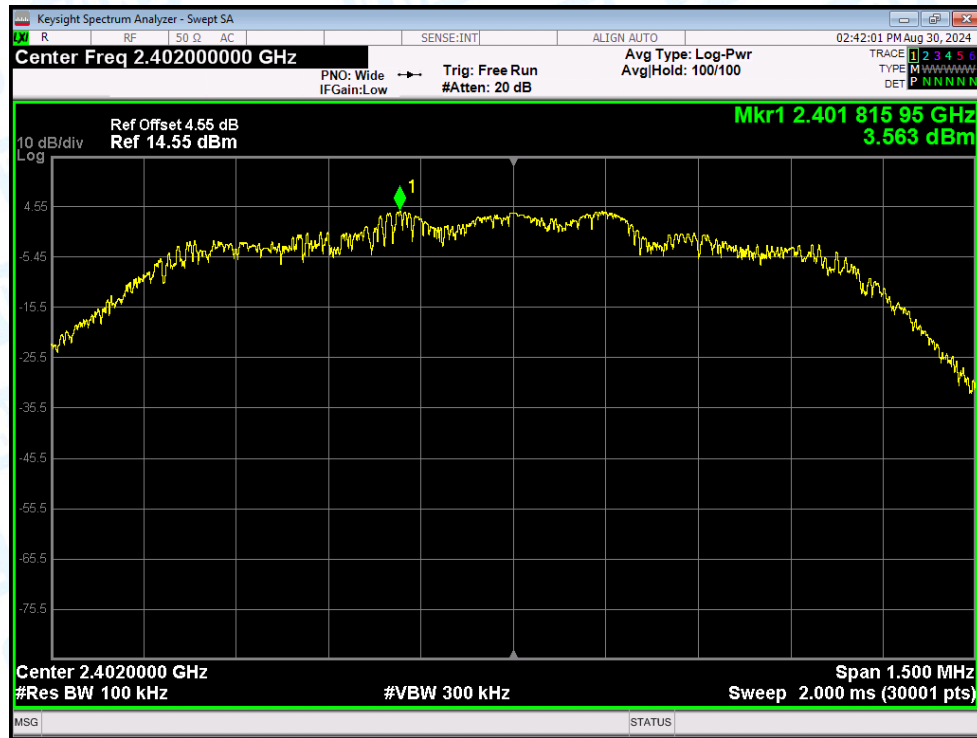
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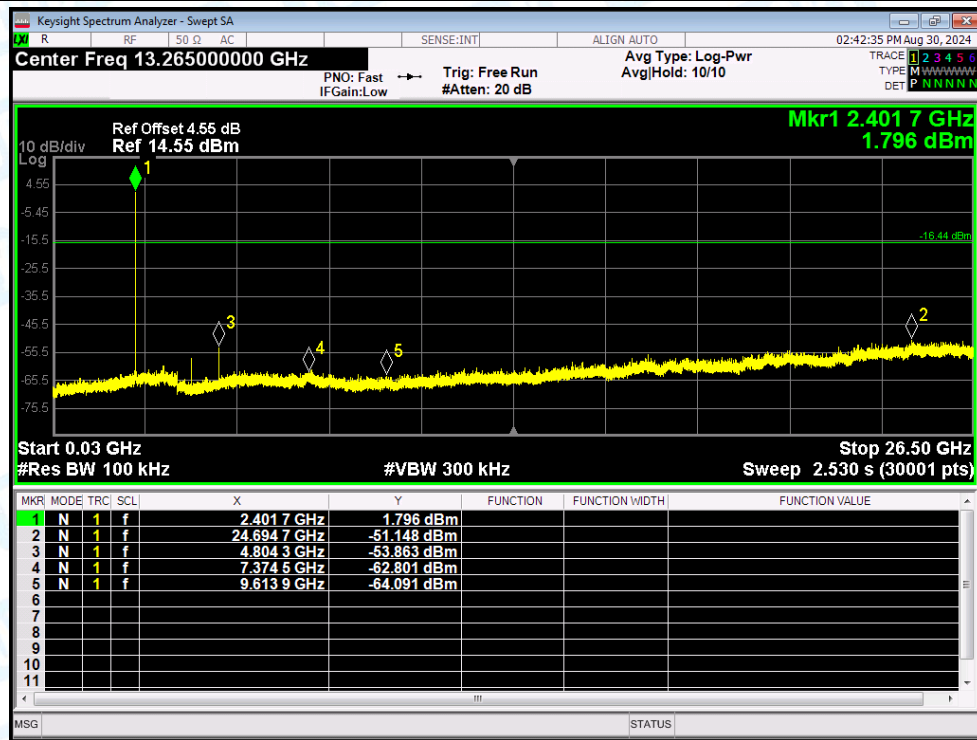
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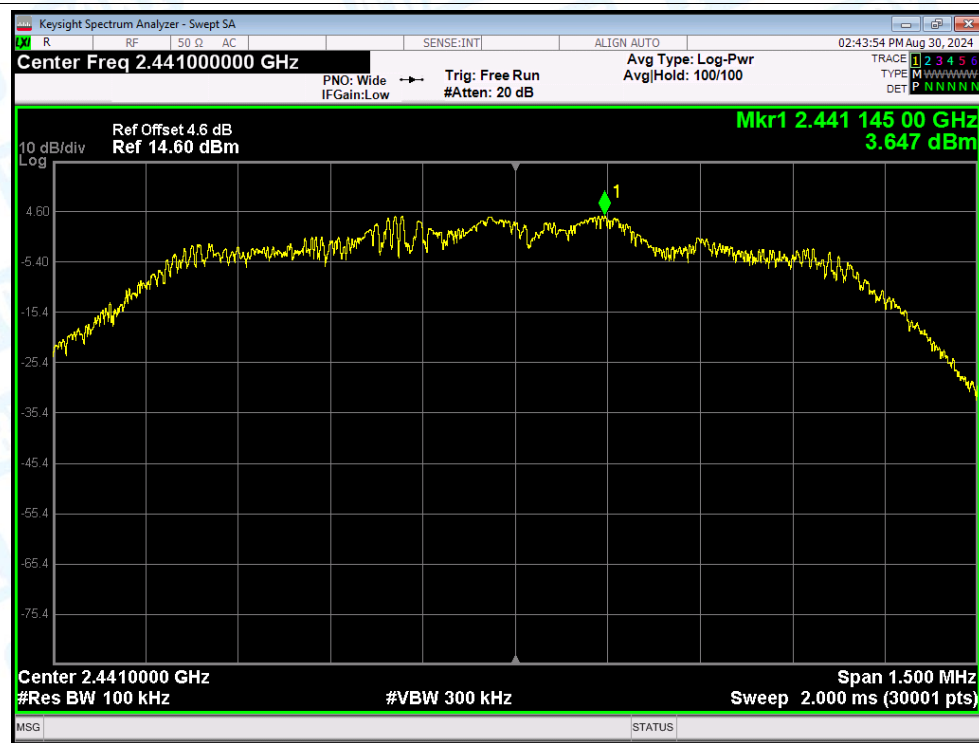
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



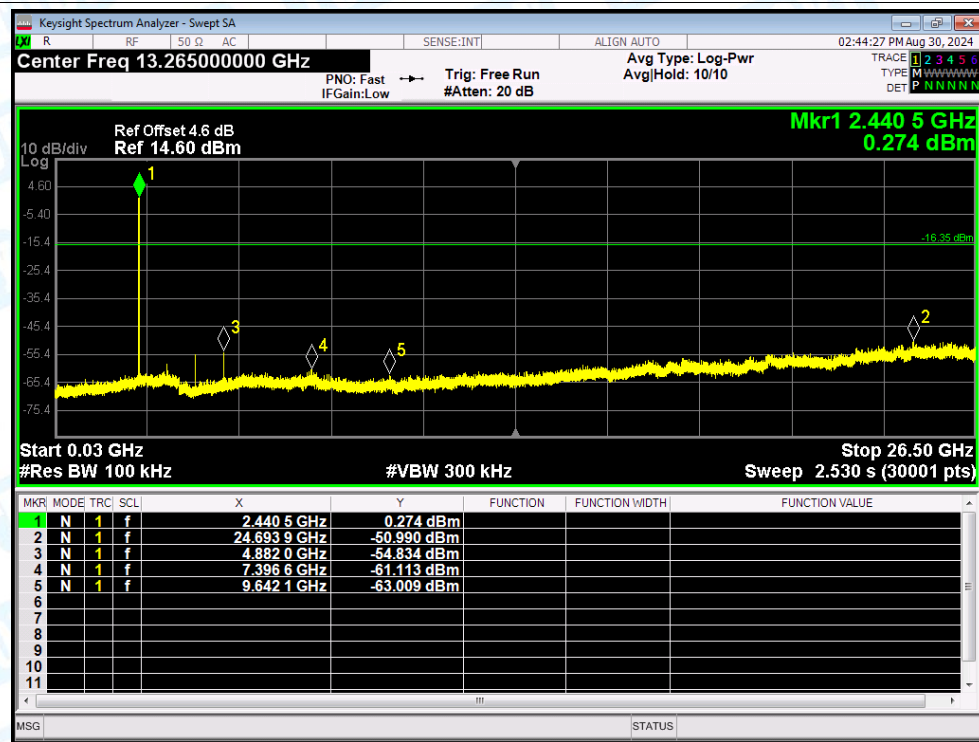
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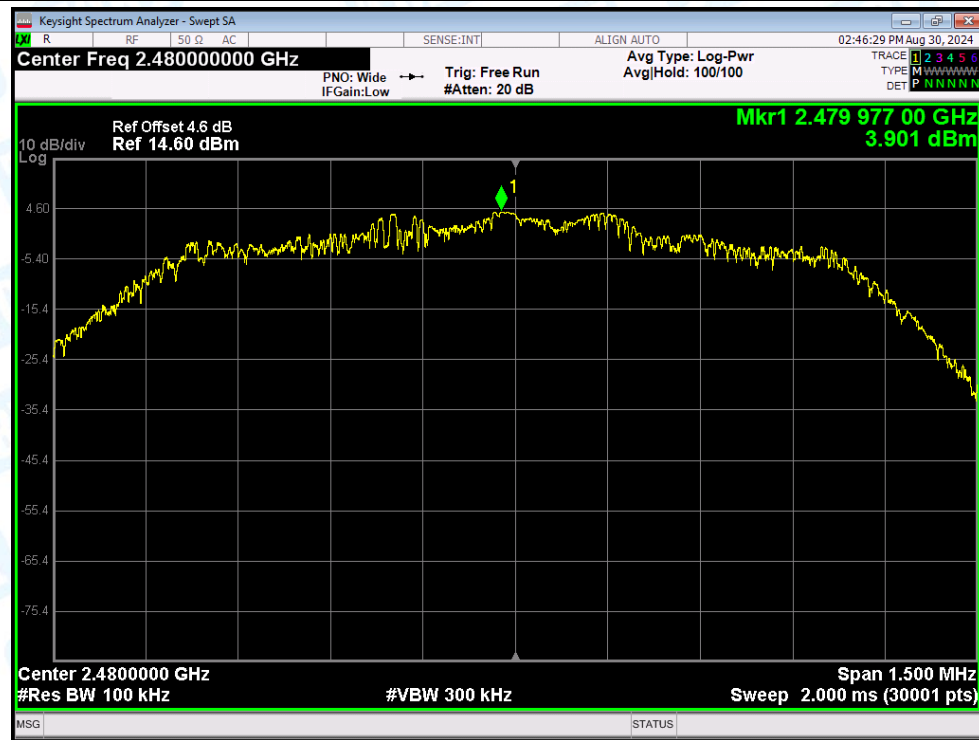
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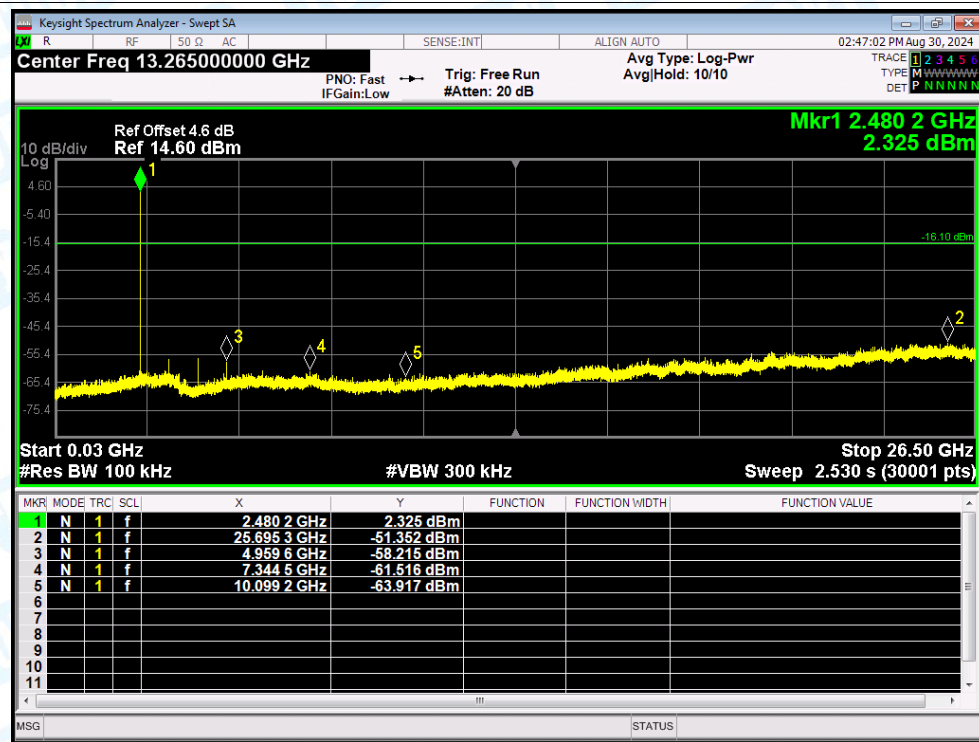
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

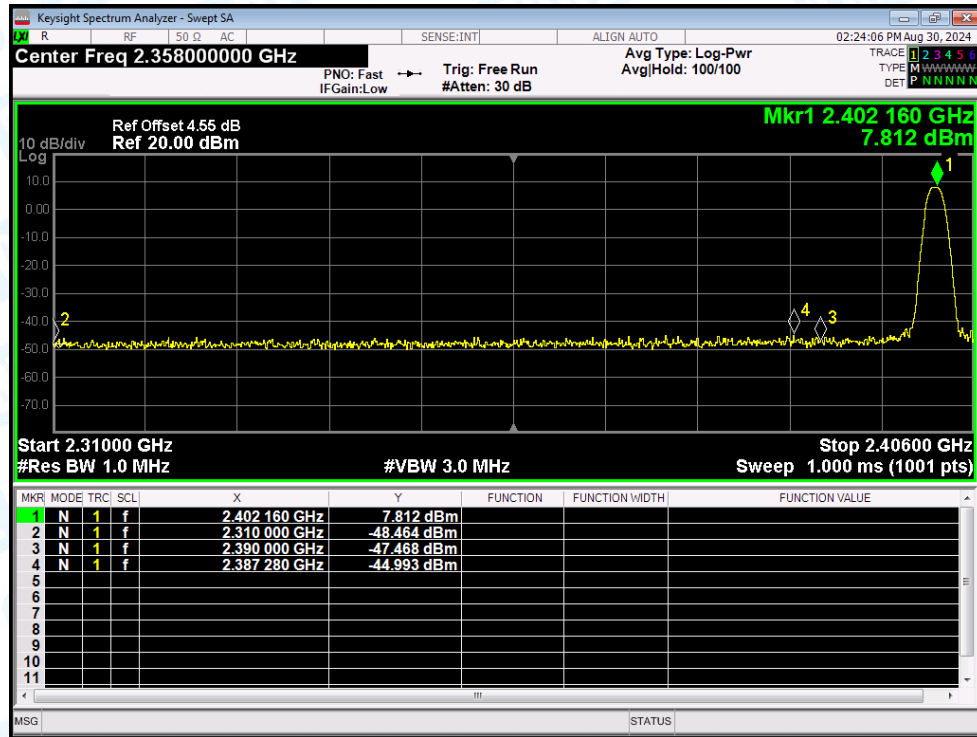


8. Restrict Band

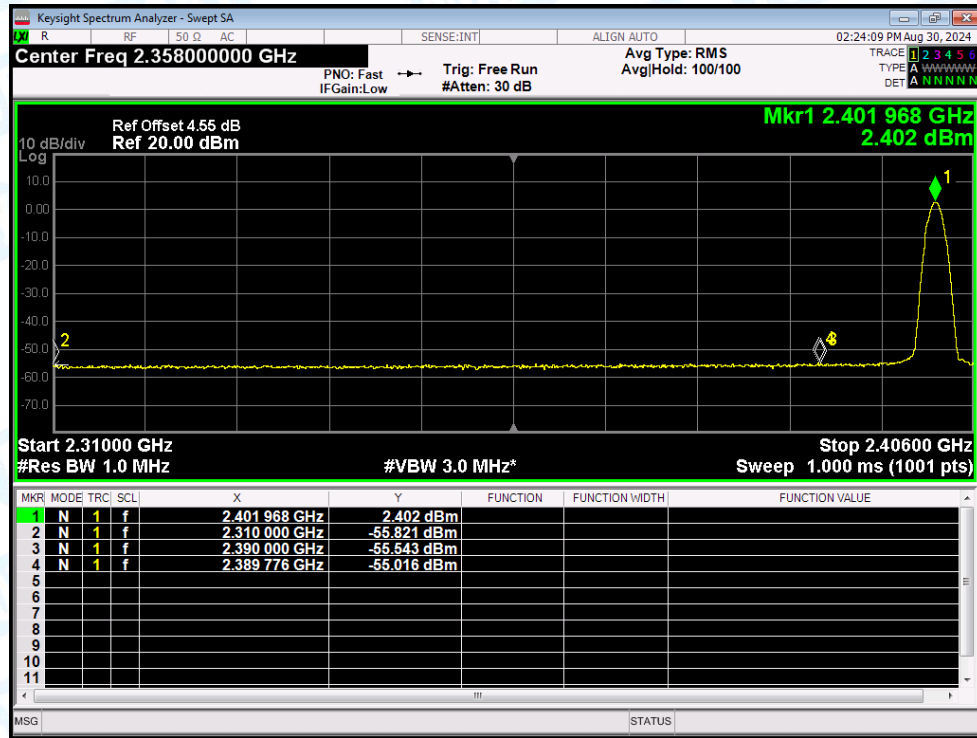
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.46	2.94	-	49.74	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.82	2.94	4.99	47.37	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2387.28	-44.99	2.94	-	53.21	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2389.776	-55.02	2.94	4.99	48.17	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-47.47	2.94	-	50.73	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-55.54	2.94	4.99	47.65	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-46.12	2.94	-	52.08	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-54.75	2.94	4.99	48.44	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.56	-43.16	2.94	-	55.04	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.68	-54.1	2.94	4.99	49.09	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.65	2.94	-	49.55	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.27	2.94	4.99	47.92	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-49.51	2.94	-	48.69	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.93	2.94	4.99	46.26	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2368.848	-44.52	2.94	-	53.68	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2386.704	-55.24	2.94	4.99	47.95	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-49.47	2.94	-	48.73	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.81	2.94	4.99	47.38	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-45.63	2.94	-	52.57	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.47	2.94	5.02	47.75	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2487.736	-43.84	2.94	-	54.36	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.608	-54.69	2.94	5.02	48.53	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-48.82	2.94	-	49.38	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-56.04	2.94	5.02	47.18	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.73	2.94	-	49.47	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-56.91	2.94	4.99	46.28	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2371.536	-45.47	2.94	-	52.73	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2389.584	-55.26	2.94	4.99	47.93	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.38	2.94	-	49.82	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.03	2.94	4.99	47.16	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-47.17	2.94	-	51.03	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.66	2.94	4.91	47.45	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2486.008	-44.81	2.94	-	53.39	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2485.096	-54.53	2.94	4.91	48.58	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.03	2.94	-	52.17	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.71	2.94	4.91	47.4	Average	54	Pass

Test Graphs

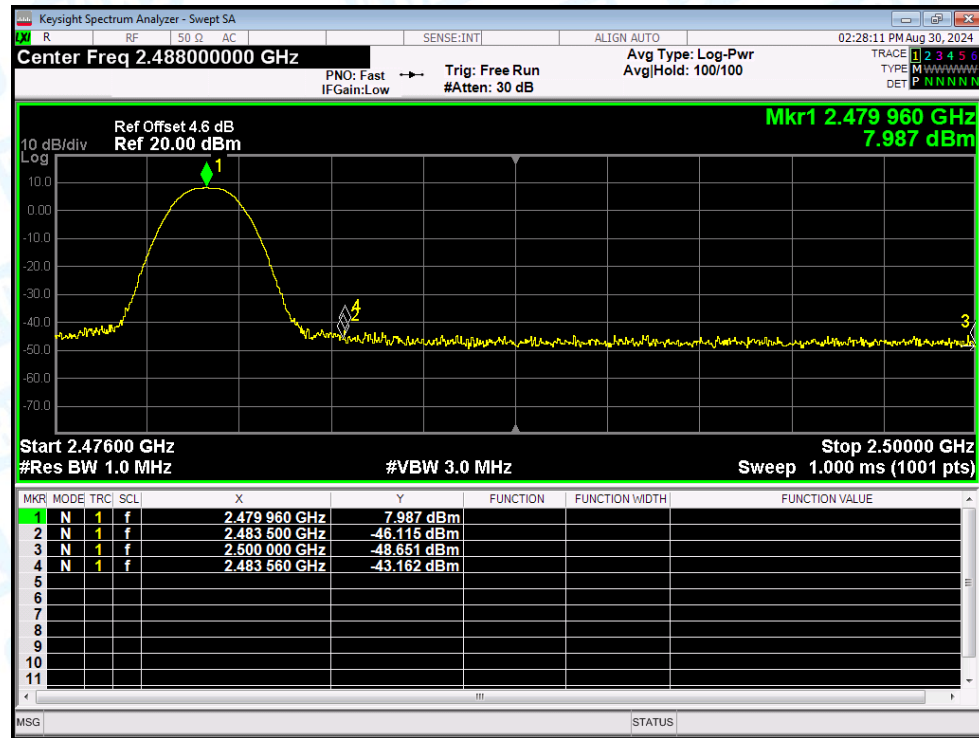
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



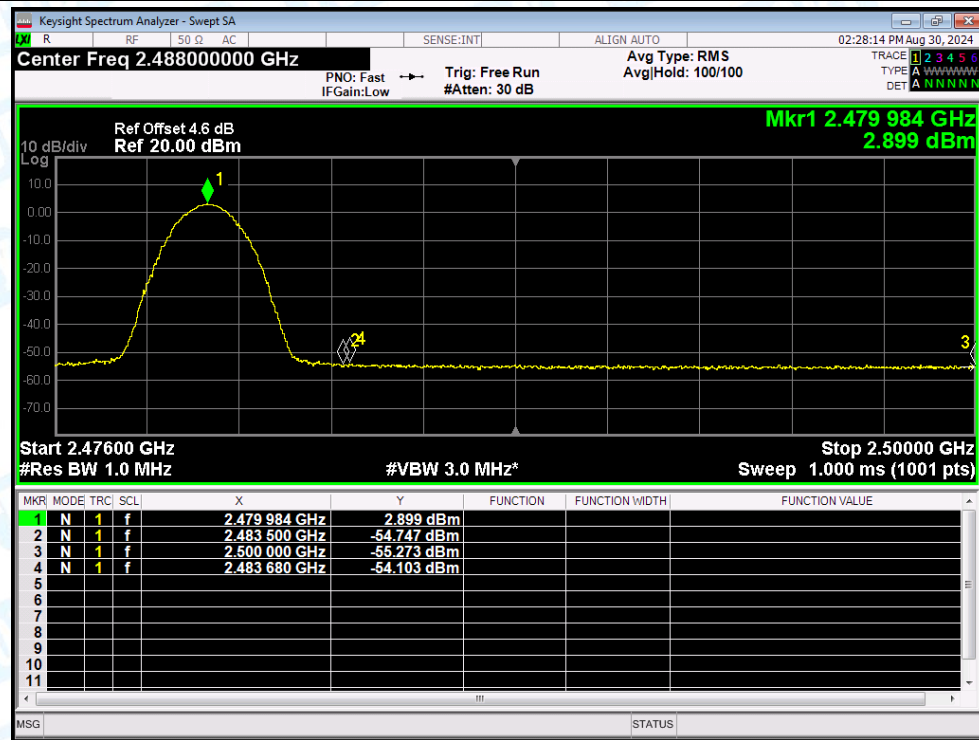
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



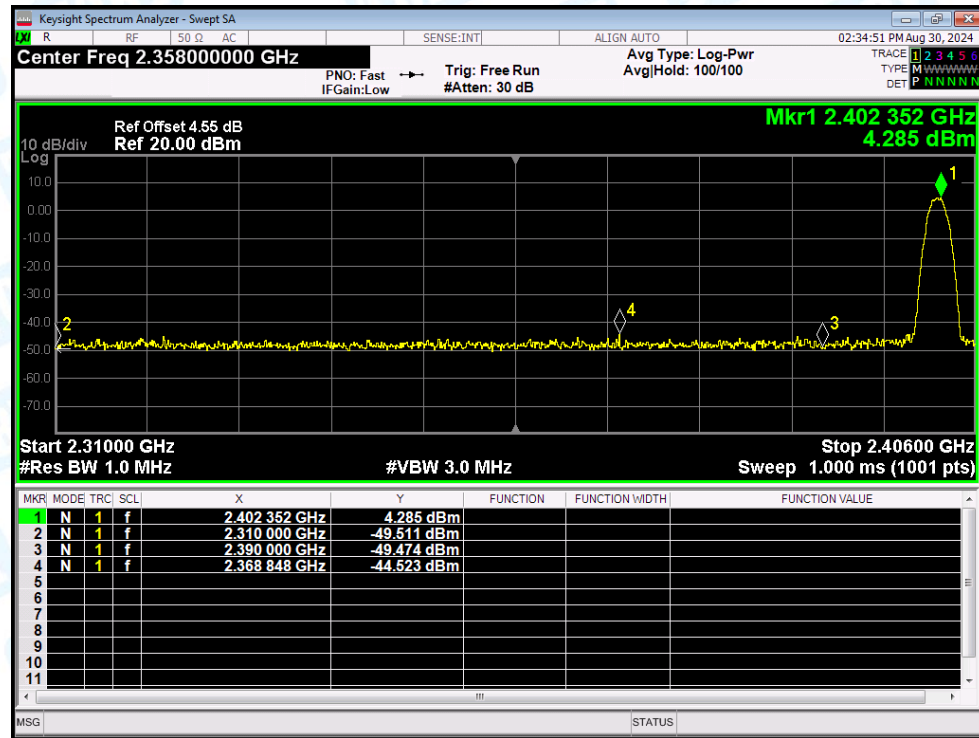
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



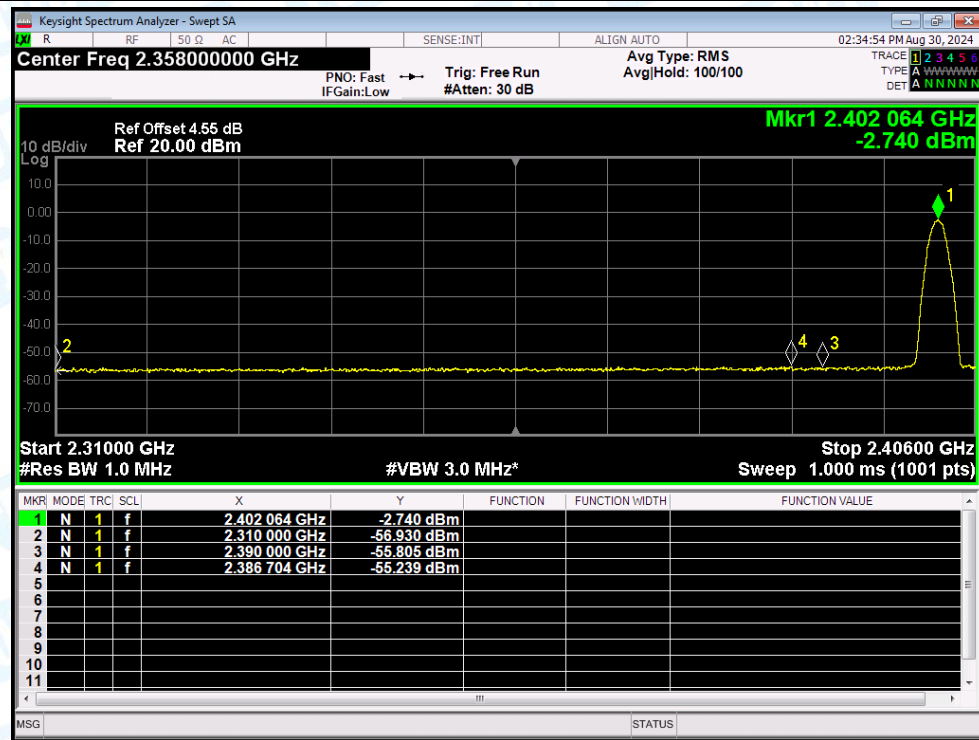
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



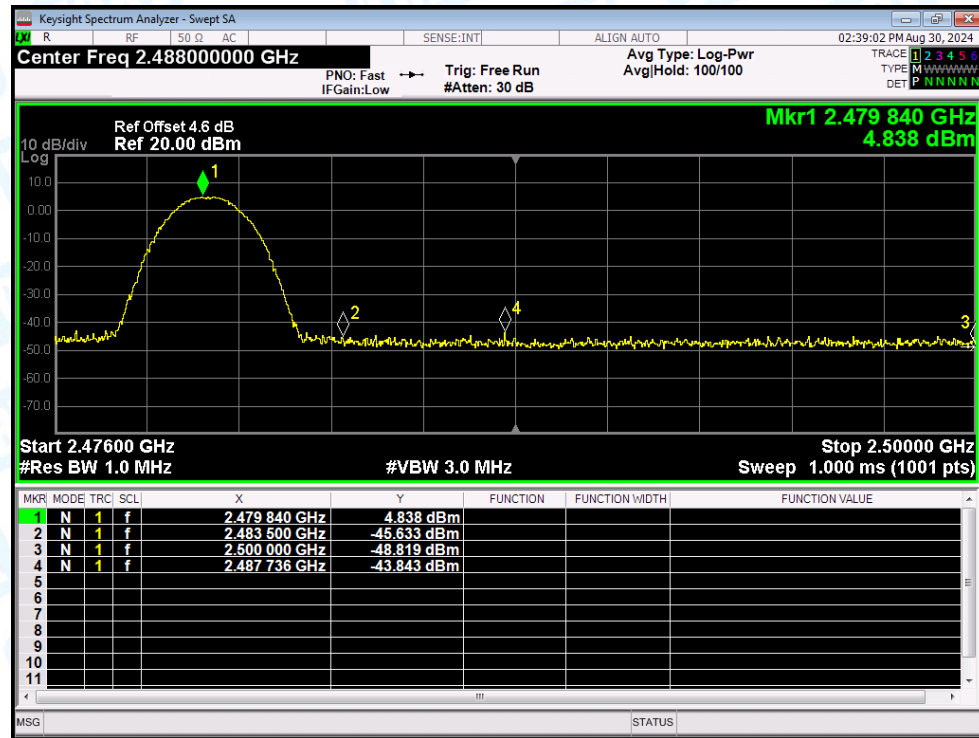
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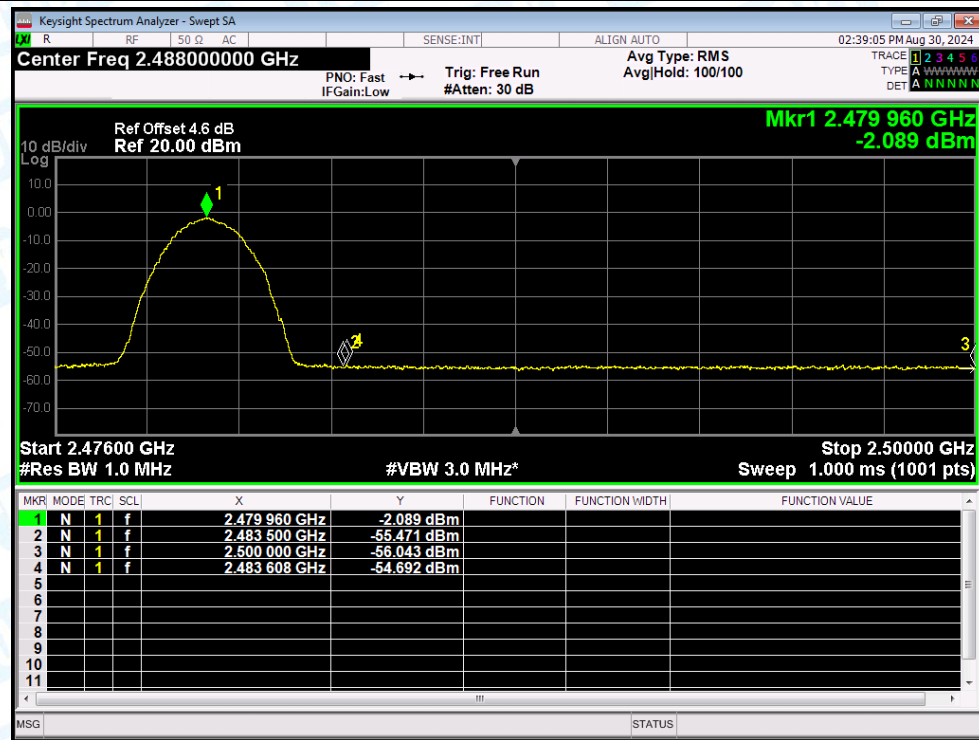
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



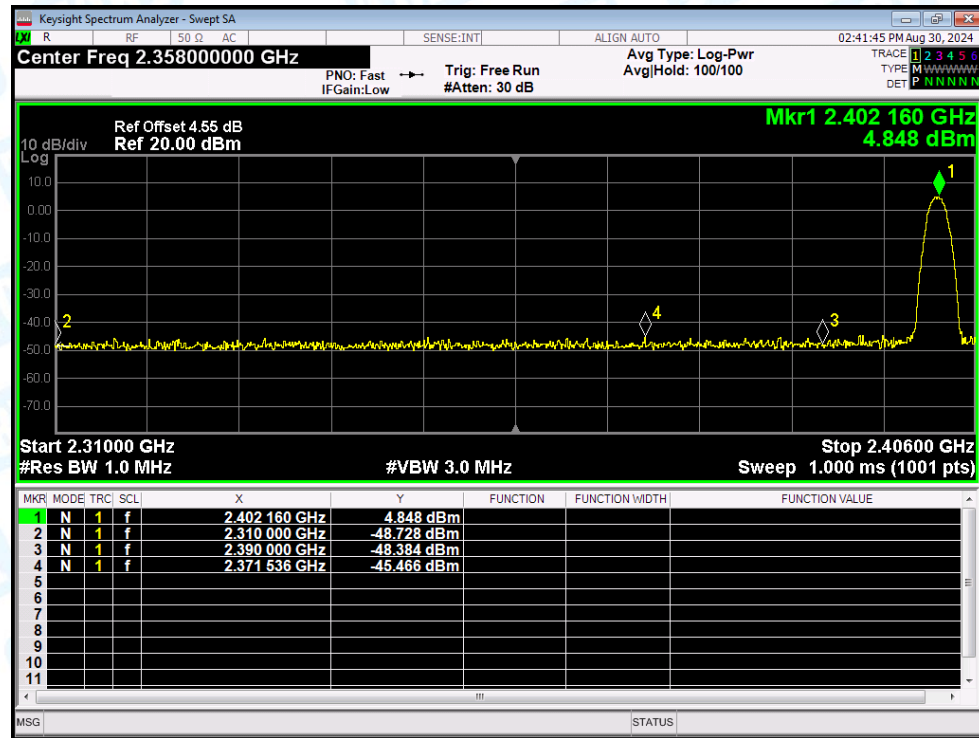
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



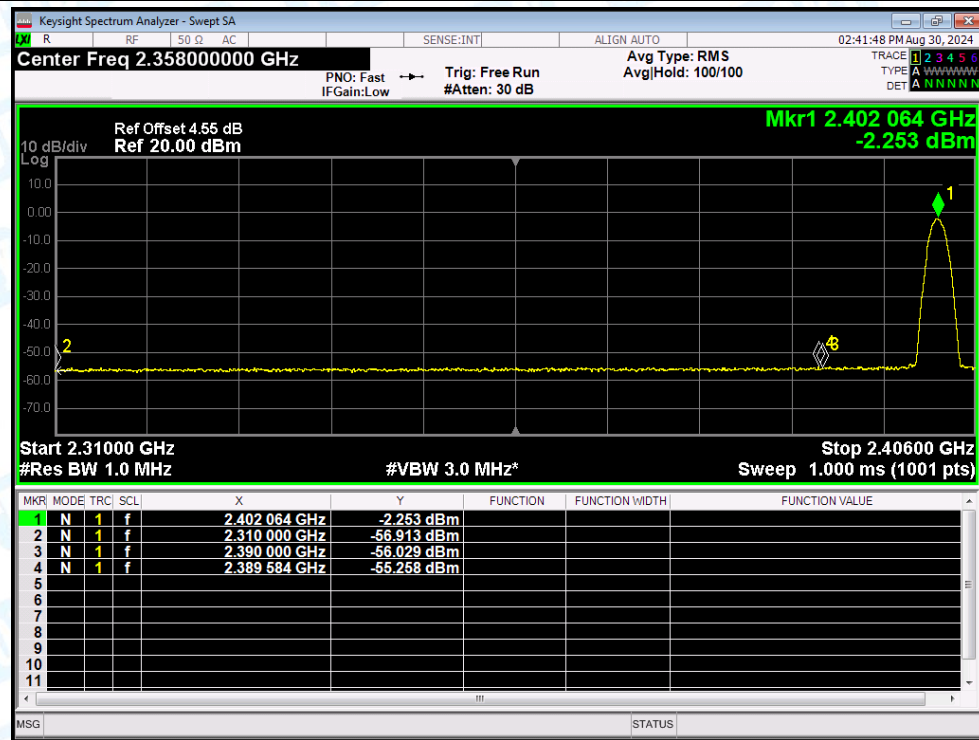
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



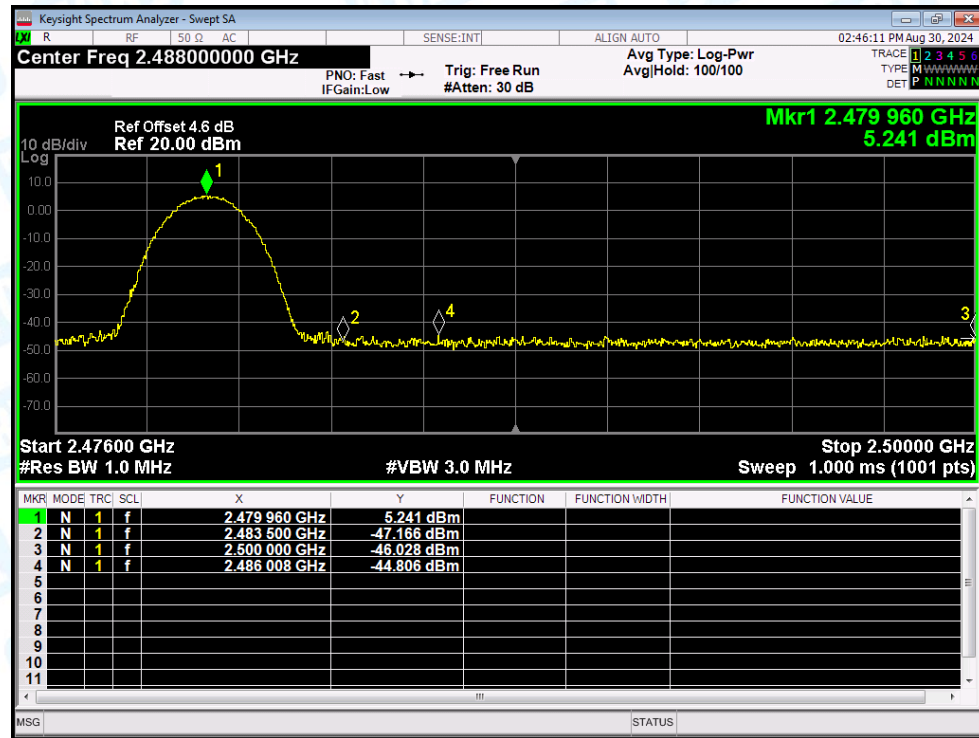
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



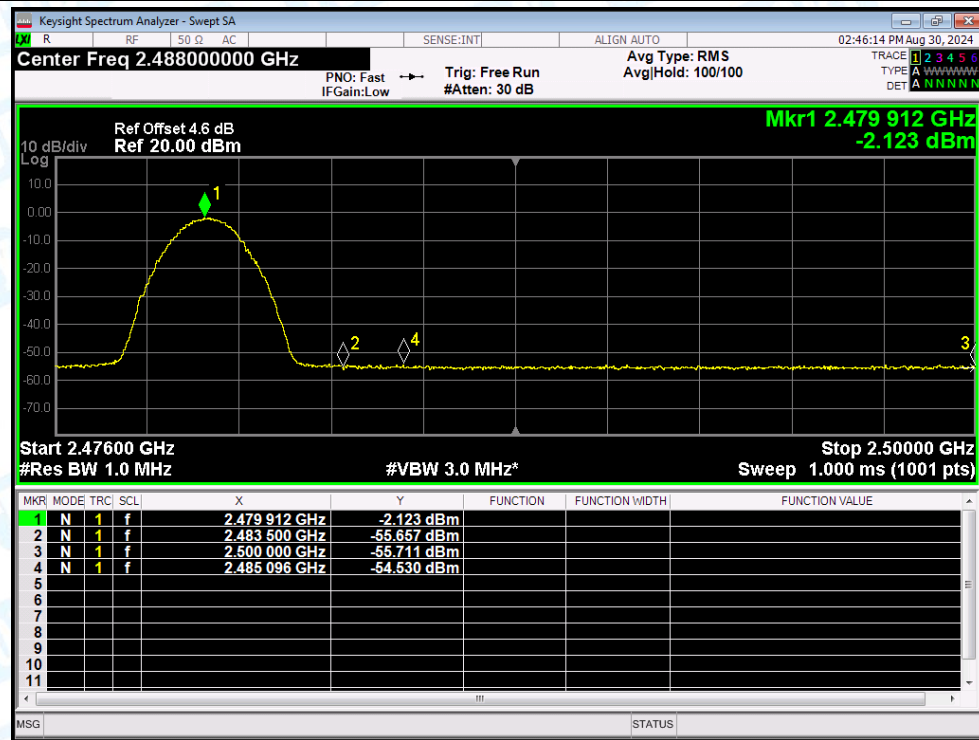
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

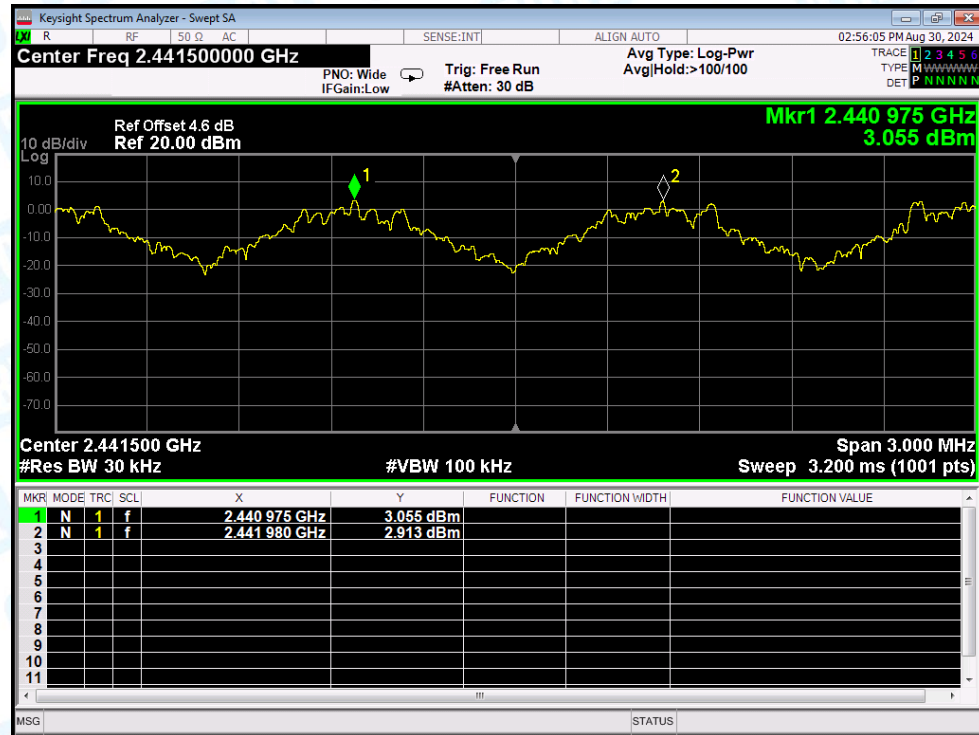


9. Carrier Frequencies Separation

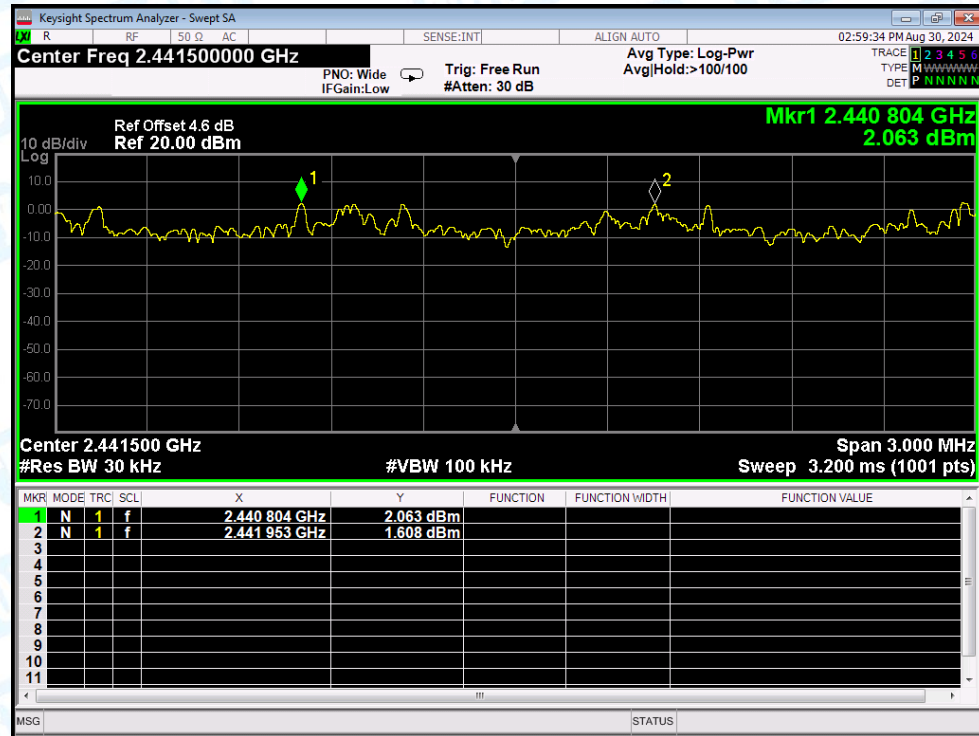
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.975	2441.98	1.005	0.627	Pass
NVNT	2-DH1	Ant1	2440.804	2441.953	1.149	0.833	Pass
NVNT	3-DH1	Ant1	2440.954	2441.965	1.011	0.807	Pass

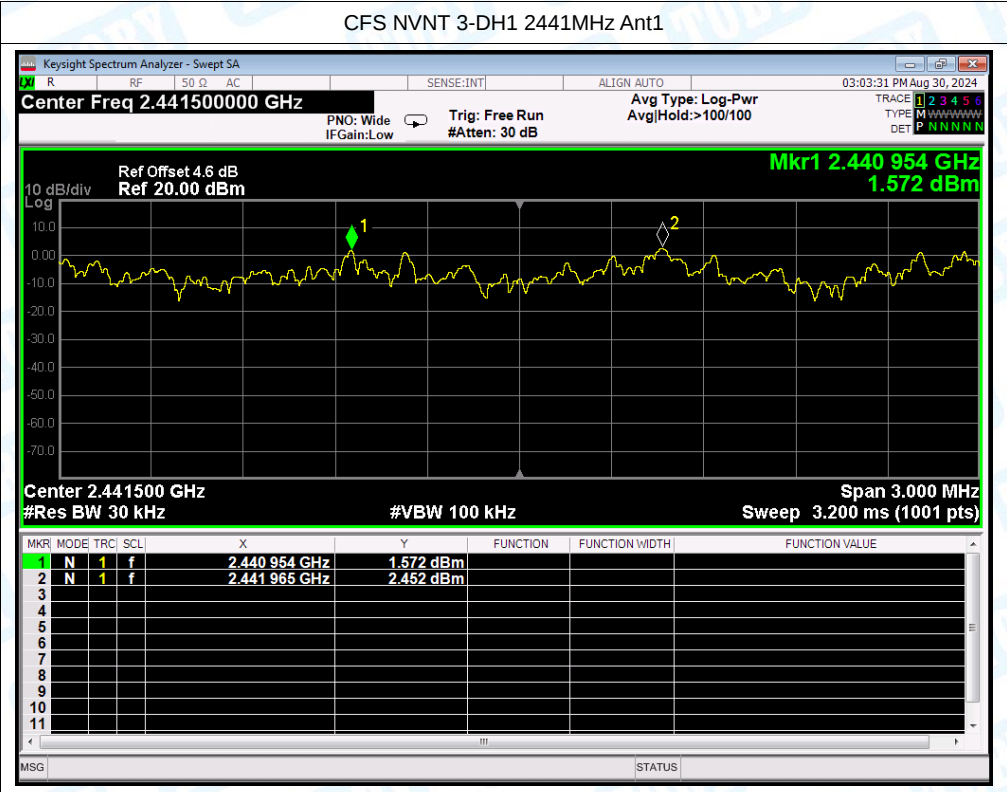
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



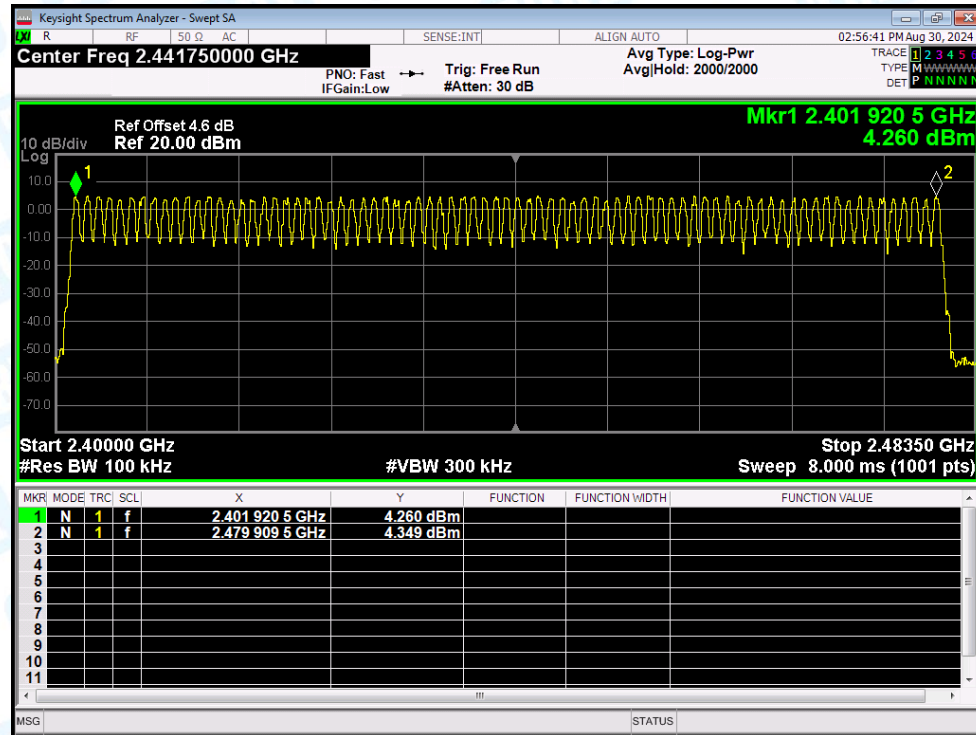


10. Number of Hopping Channel

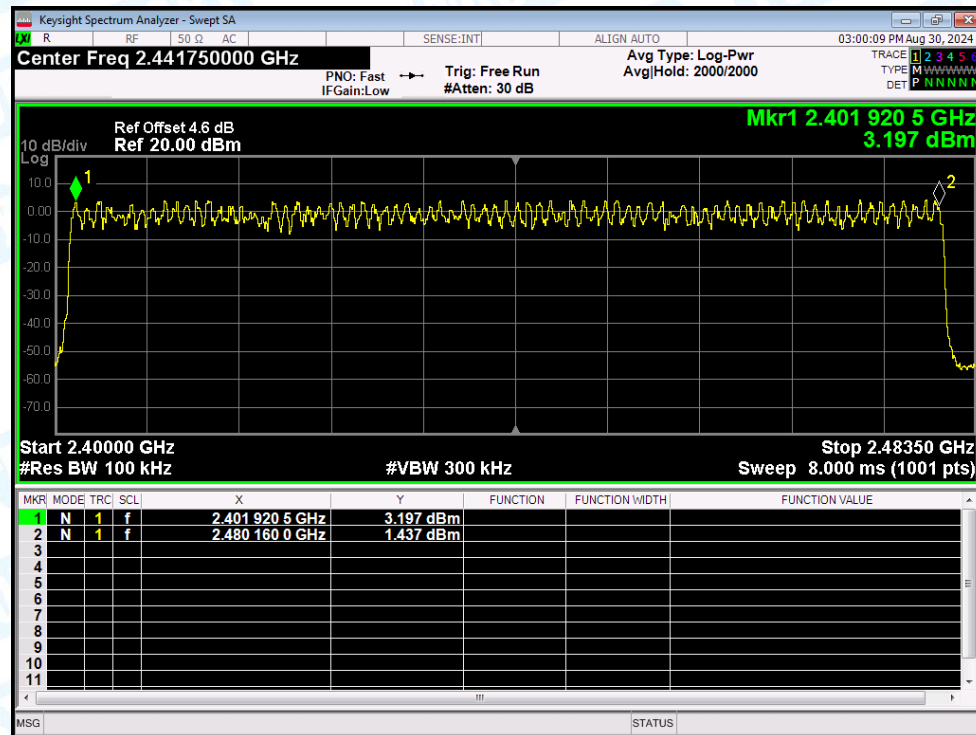
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

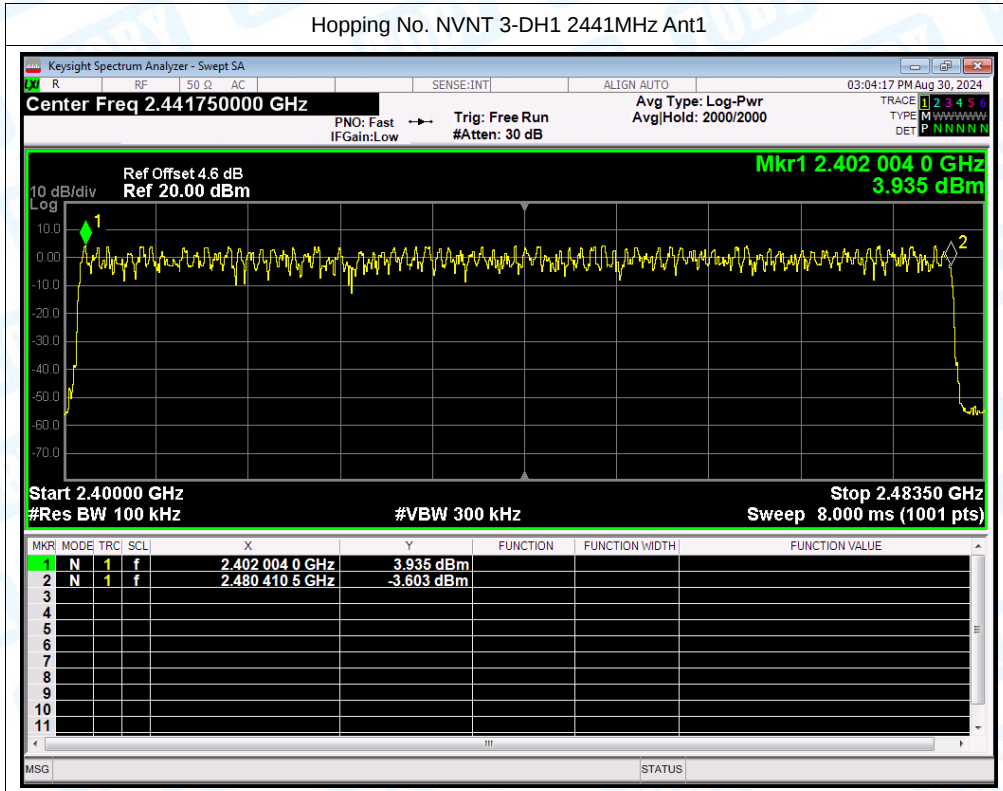
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1

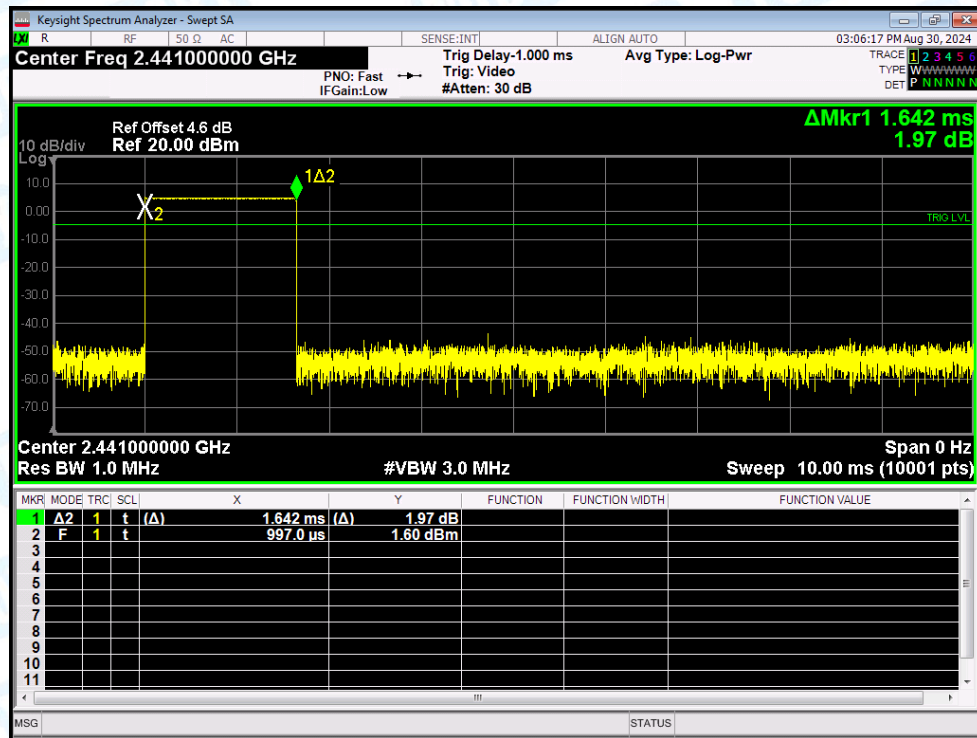
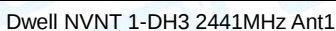




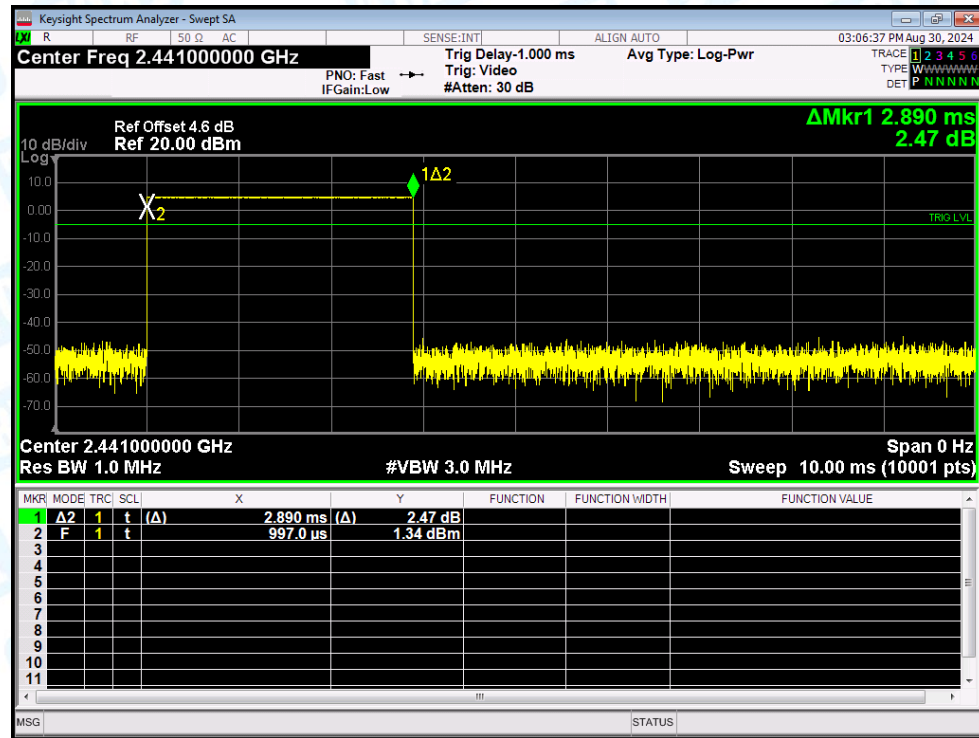
11. Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.386	123.52	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.642	262.72	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.89	308.267	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.394	126.08	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.646	263.36	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.894	308.693	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.394	126.08	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.645	263.2	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.896	308.907	31600	400	Pass

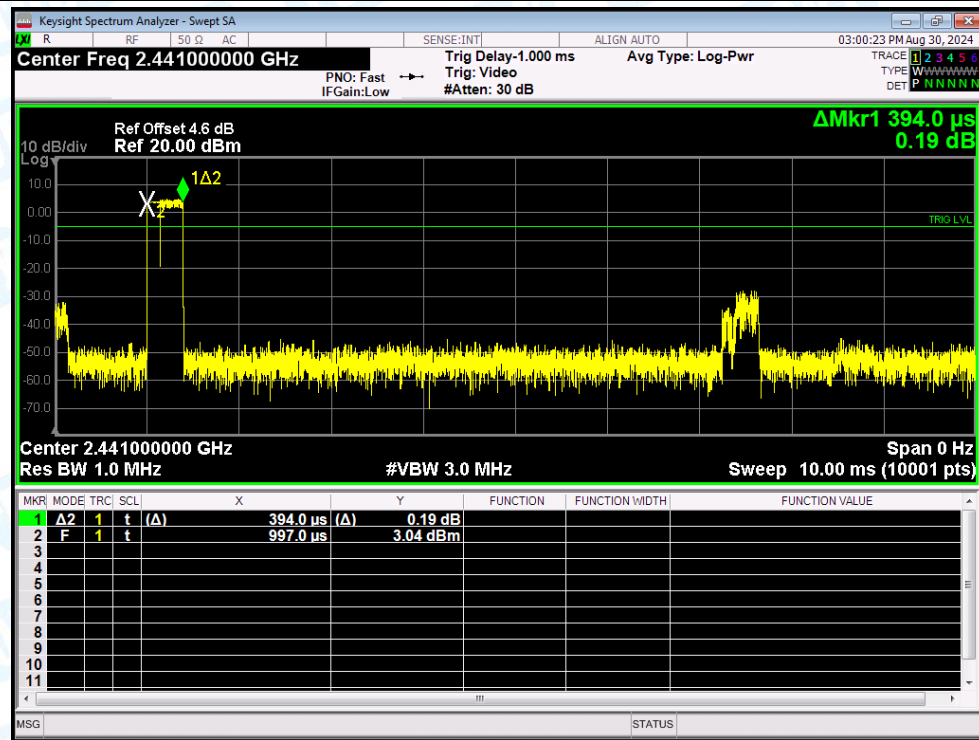
Dwell NVNT 1-DH1 2441MHz Ant1



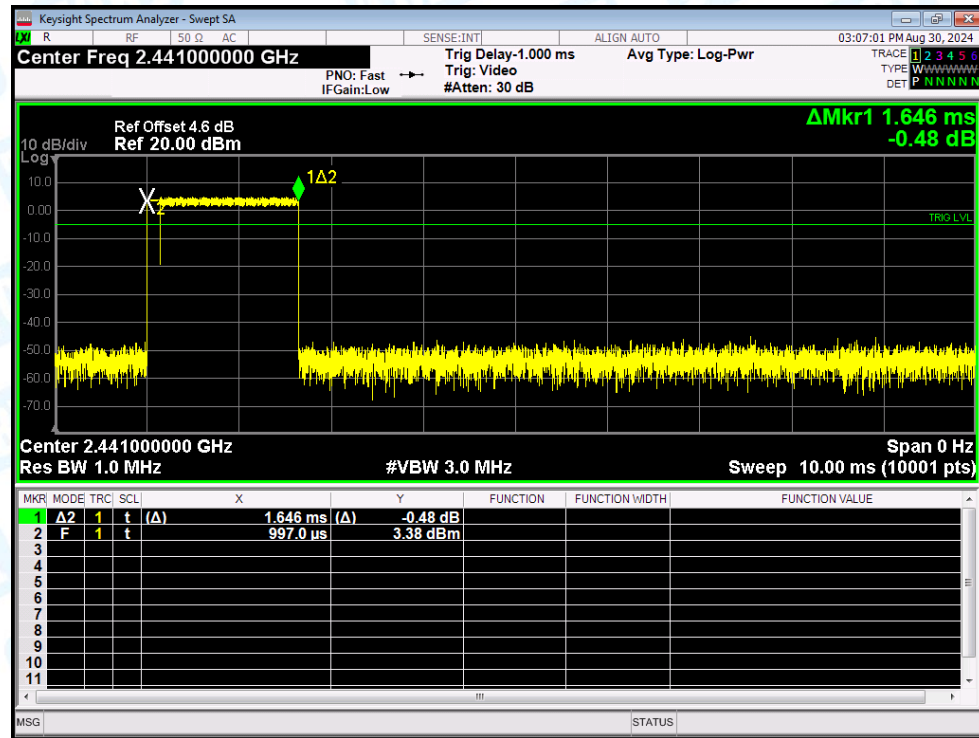
Dwell NVNT 1-DH5 2441MHz Ant1



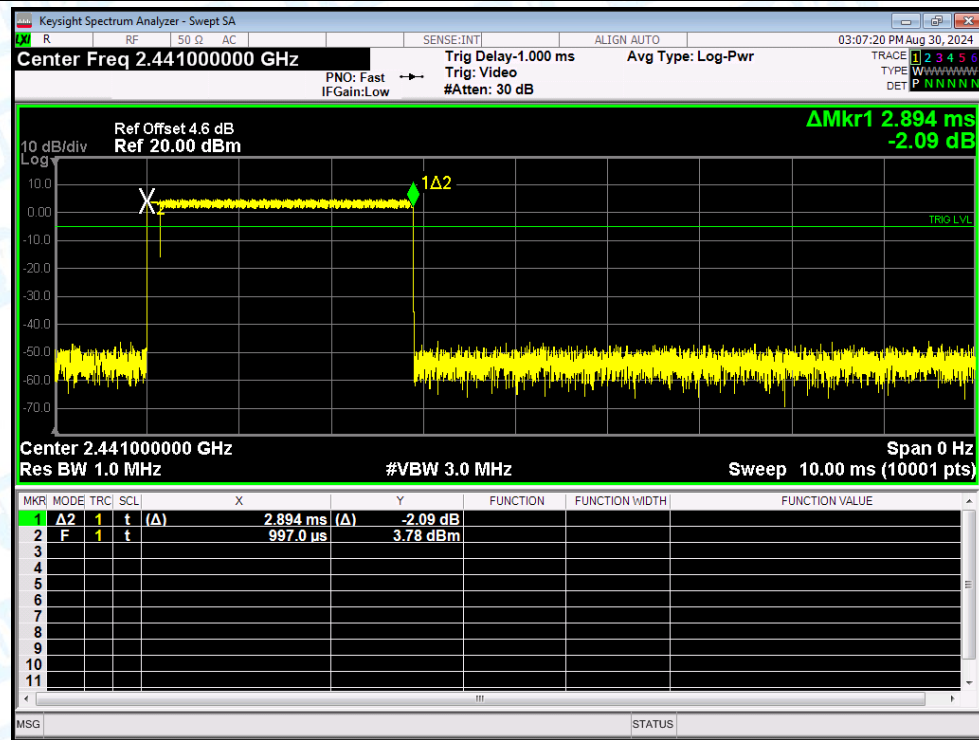
Dwell NVNT 2-DH1 2441MHz Ant1



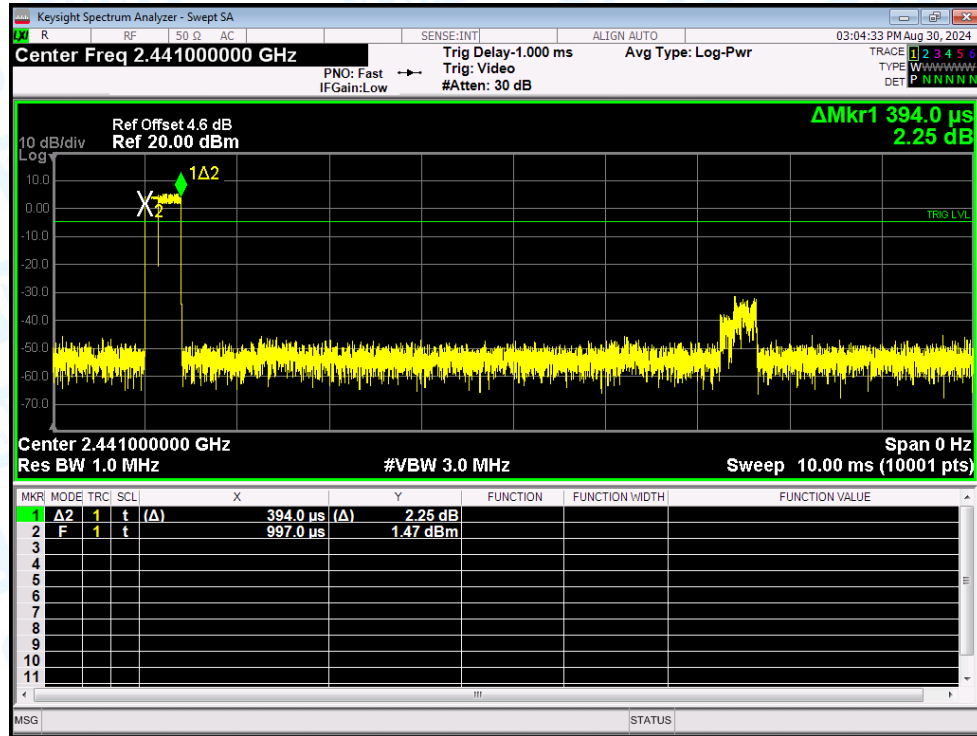
Dwell NVNT 2-DH3 2441MHz Ant1



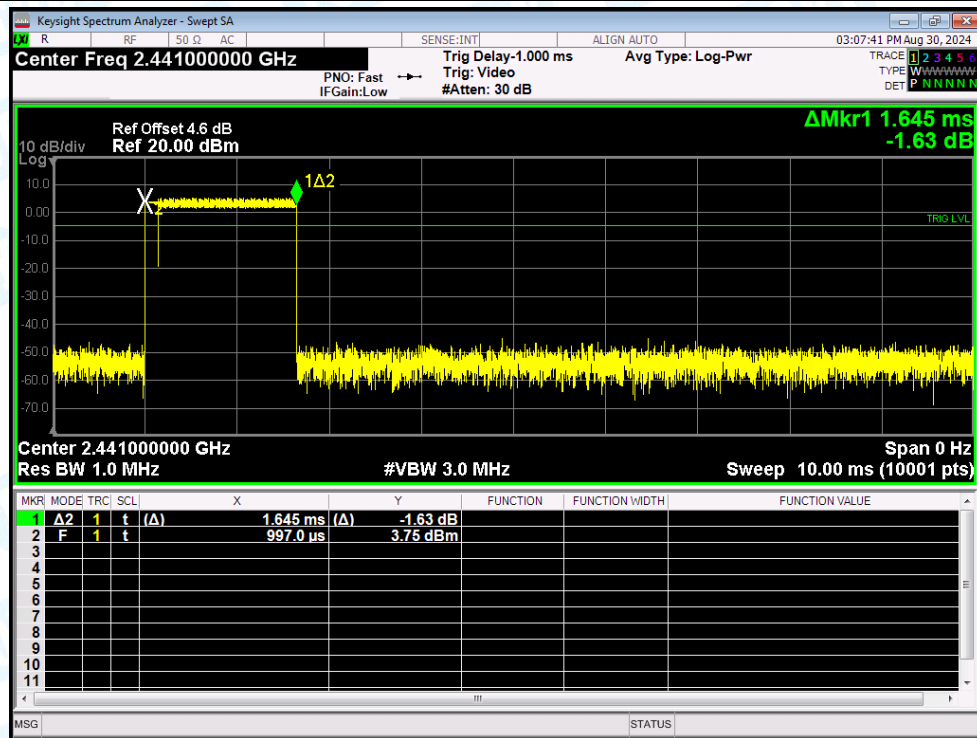
Dwell NVNT 2-DH5 2441MHz Ant1

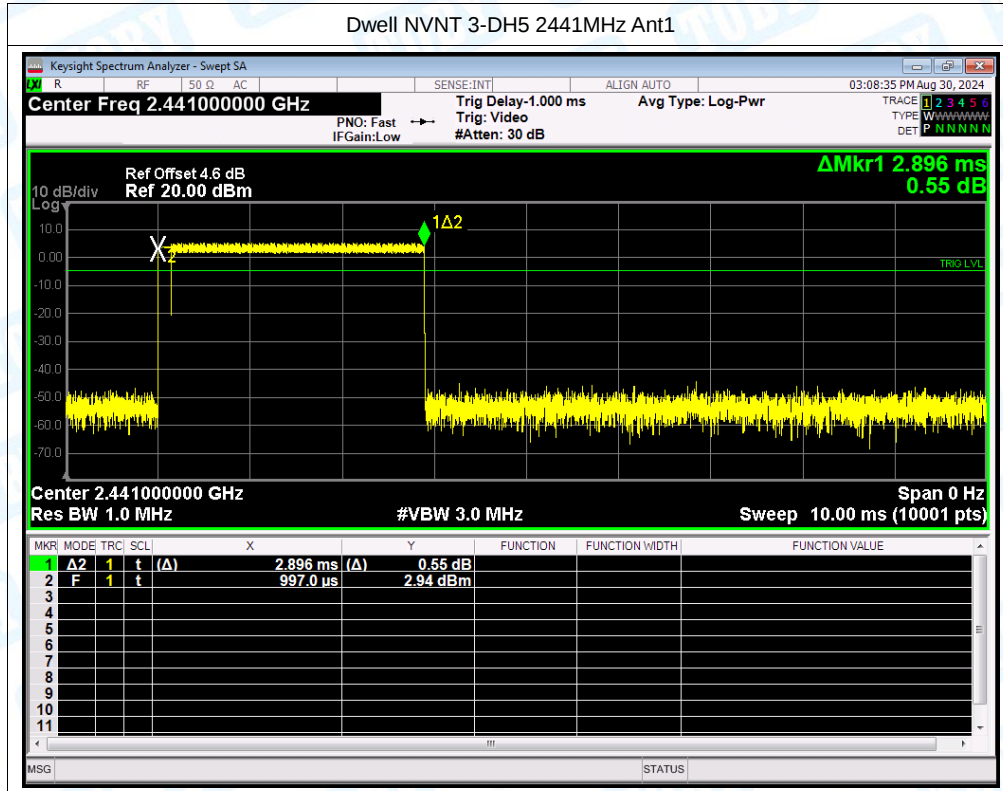


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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