

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet pc
Test Model:	IT-701A
Sample ID:	202408-0001-10-2#
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 3.8V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202408-0001-16 The report only show the worst case data.	

Contents

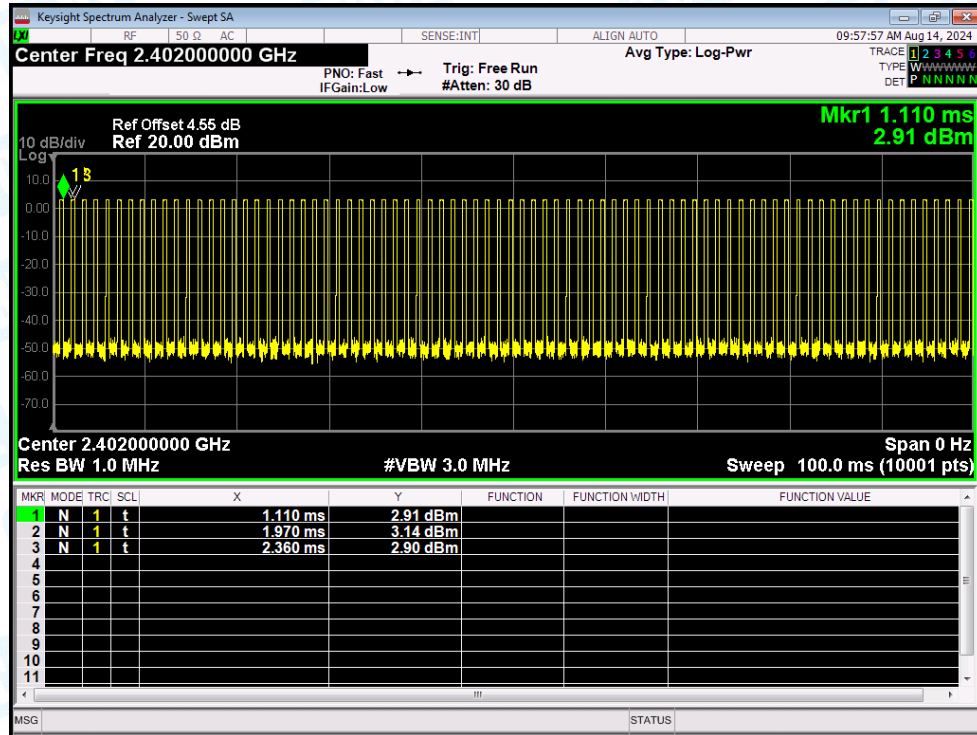
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1.Duty Cycle

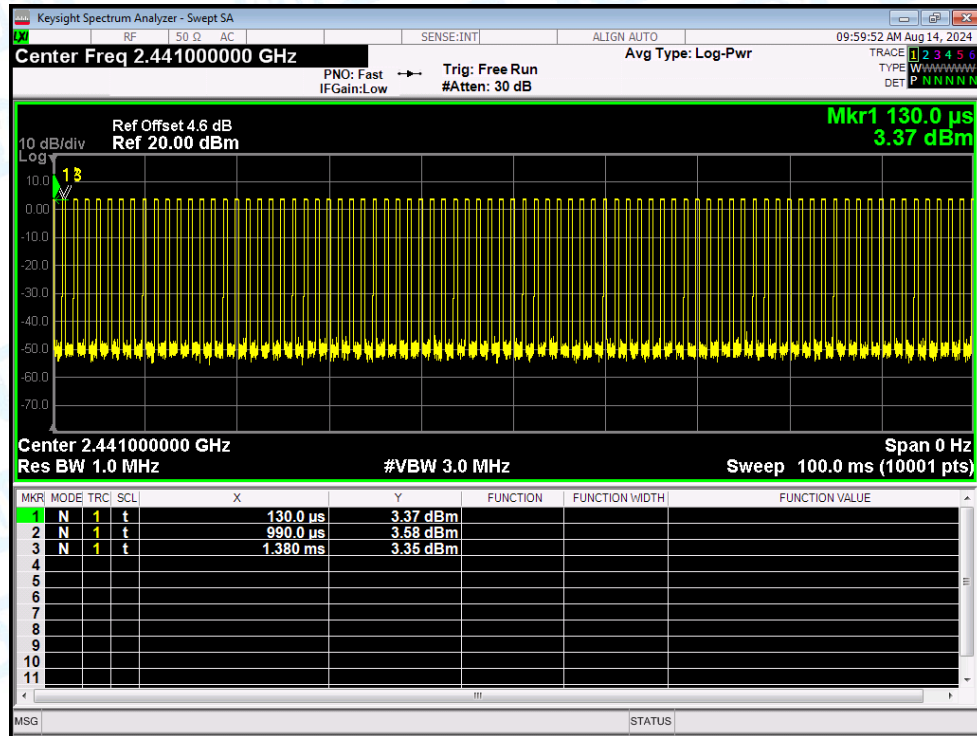
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	1-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2402	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	2-DH1	2480	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2402	Ant1	24.8	6.06	3.23
NVNT	3-DH1	2441	Ant1	24	6.2	3.33
NVNT	3-DH1	2480	Ant1	24	6.2	3.33

Test Graphs

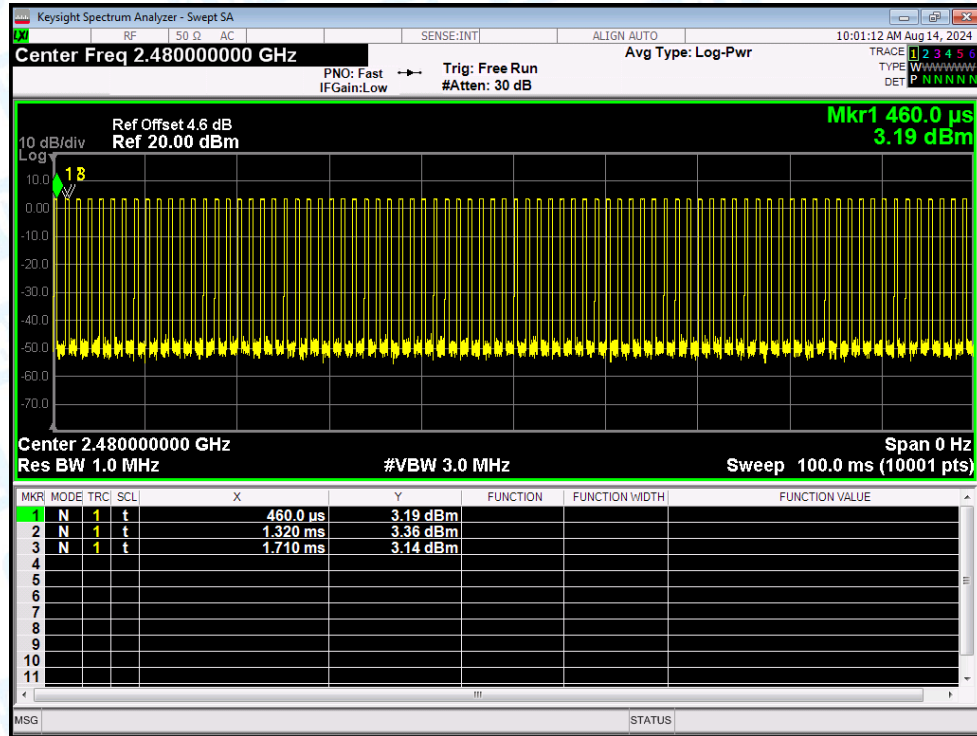
Duty Cycle NVNT 1-DH1 2402MHz Ant1



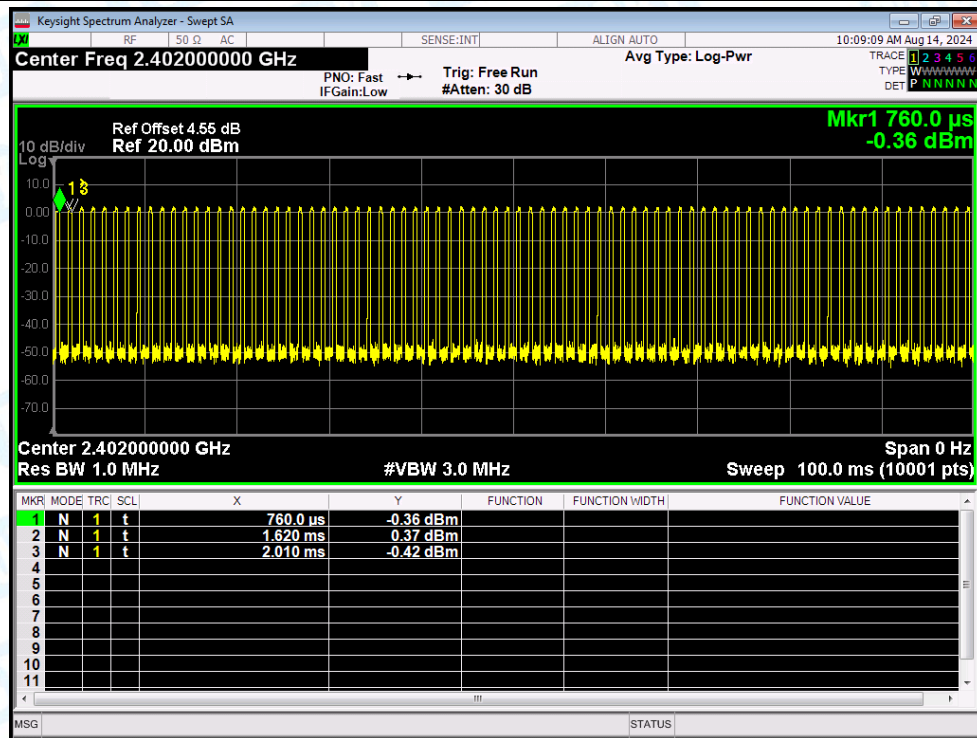
Duty Cycle NVNT 1-DH1 2441MHz Ant1



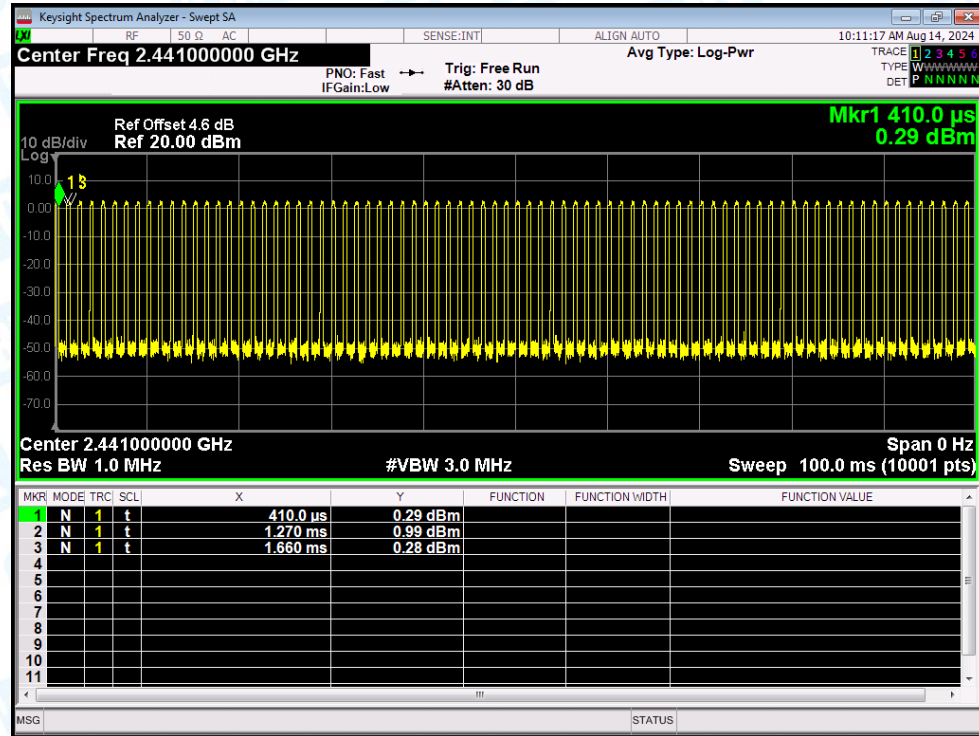
Duty Cycle NVNT 1-DH1 2480MHz Ant1



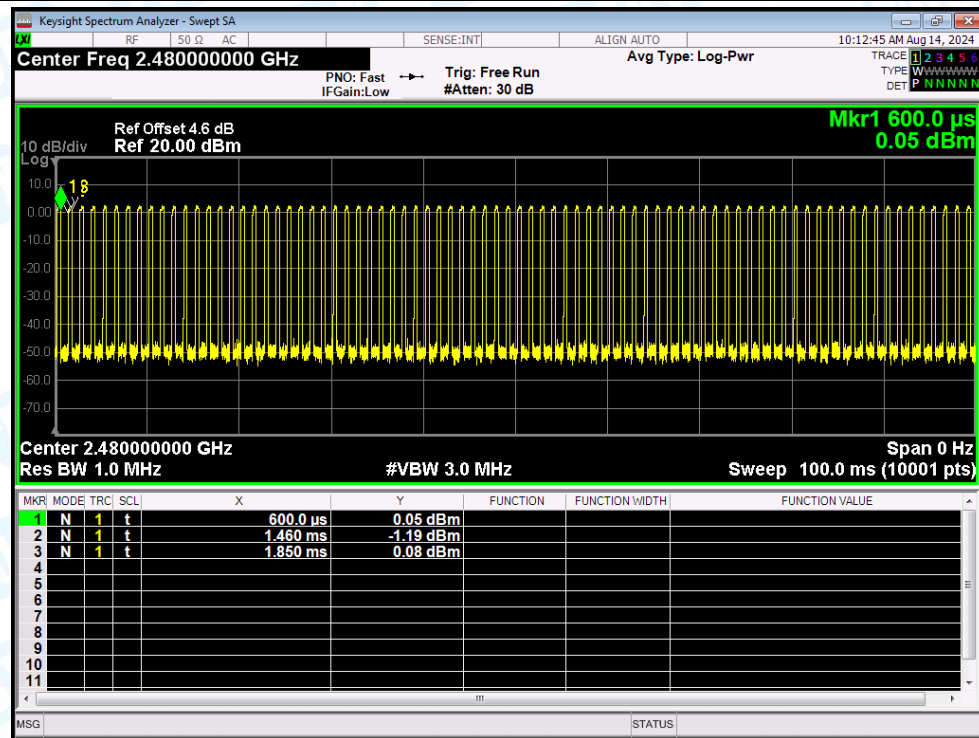
Duty Cycle NVNT 2-DH1 2402MHz Ant1



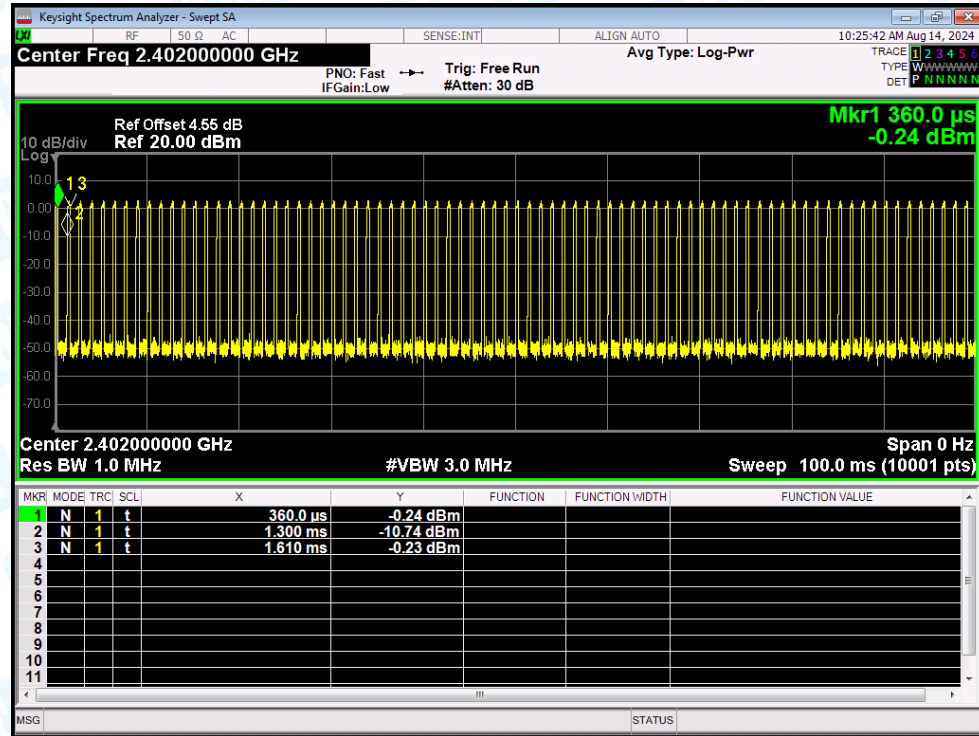
Duty Cycle NVNT 2-DH1 2441MHz Ant1



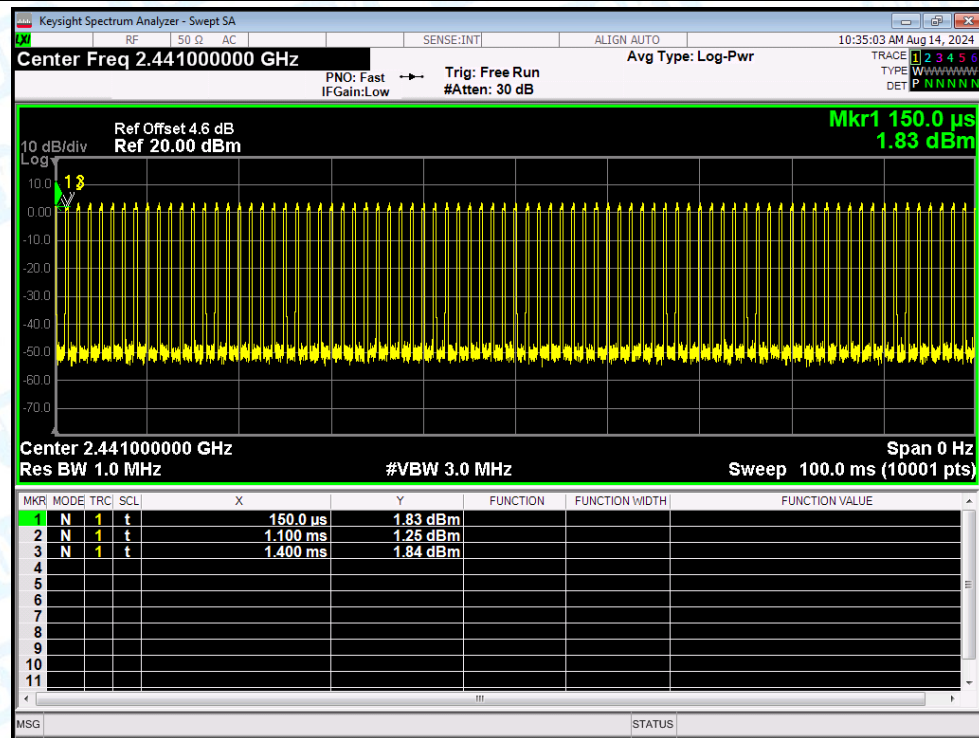
Duty Cycle NVNT 2-DH1 2480MHz Ant1

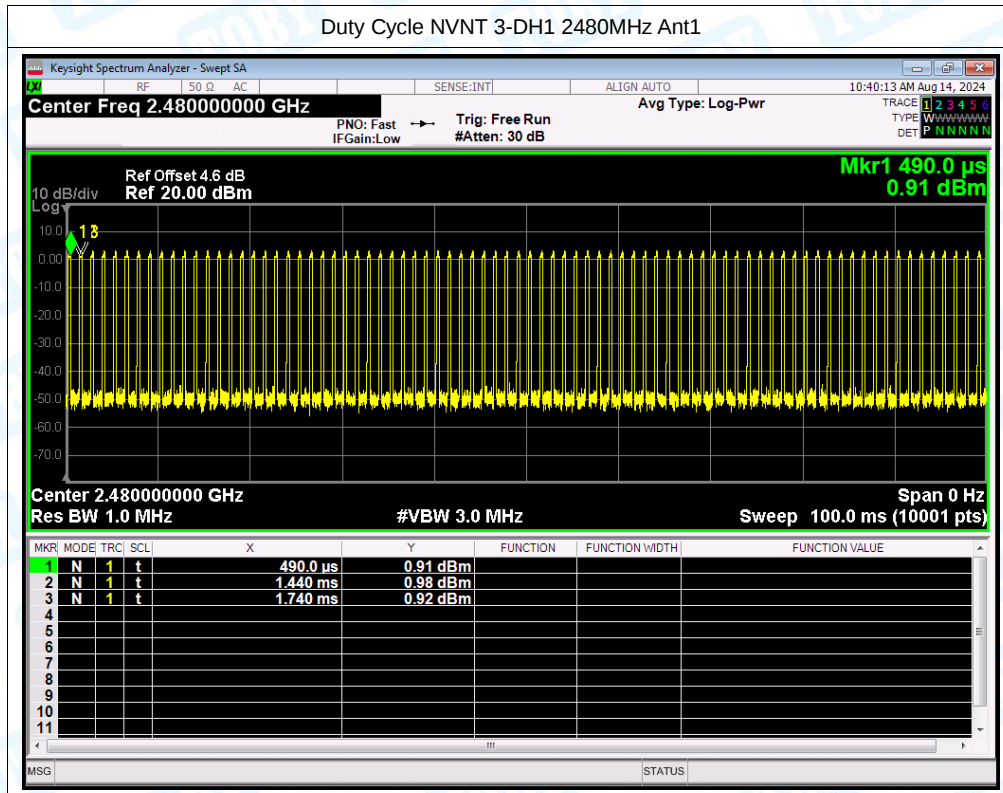


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



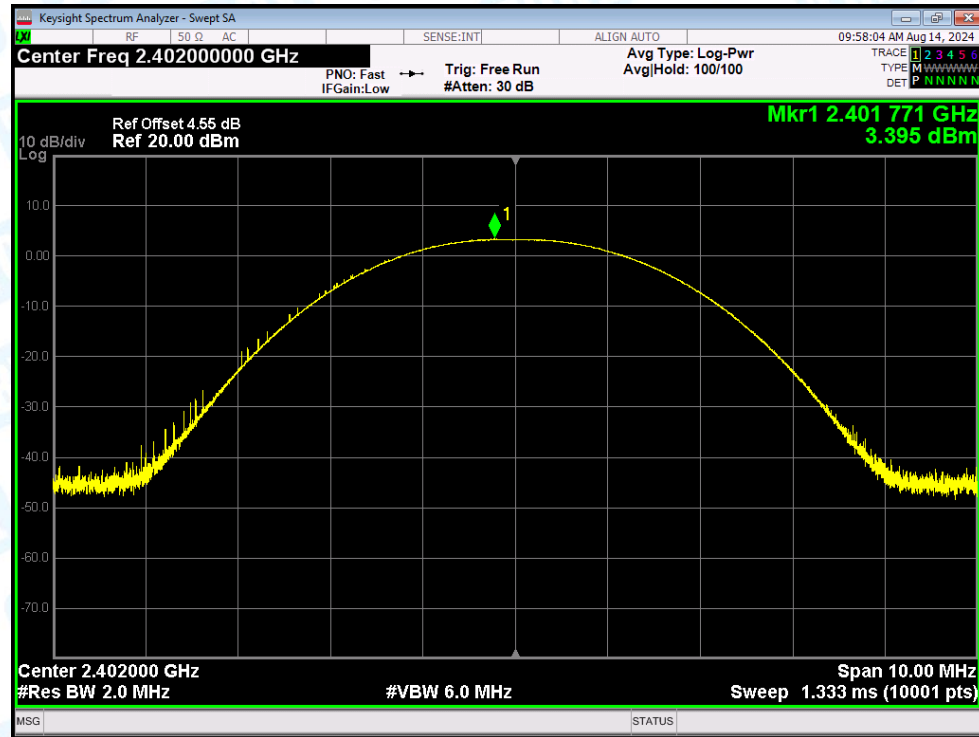


2. Maximum Conducted Output Power

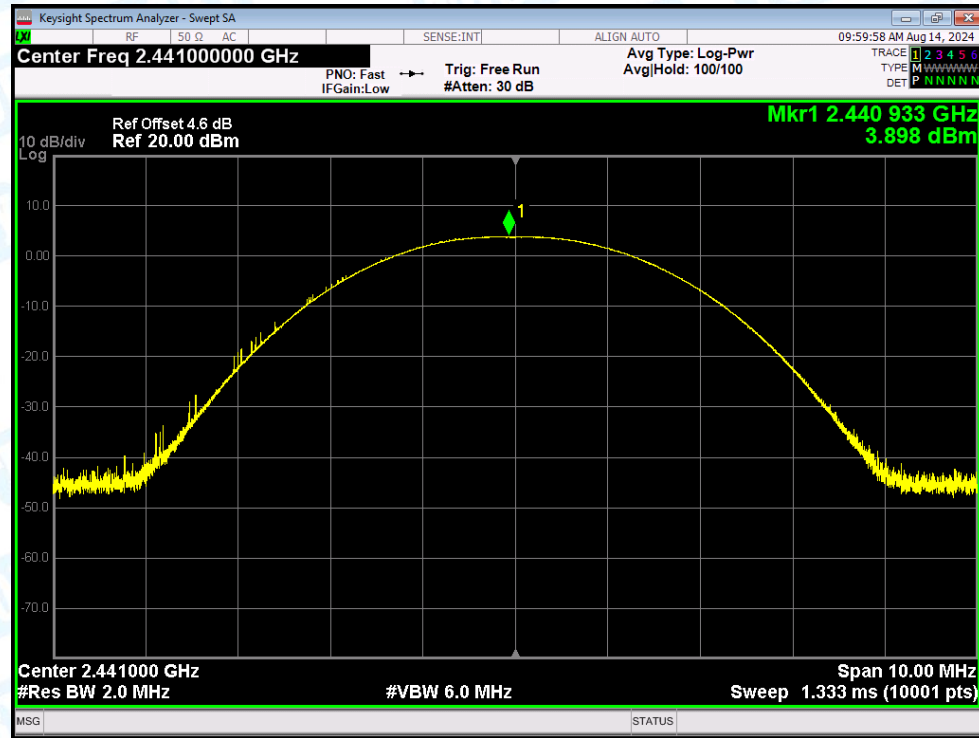
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	3.395	21	Pass
NVNT	1-DH1	2441	Ant1	3.898	21	Pass
NVNT	1-DH1	2480	Ant1	3.696	21	Pass
NVNT	2-DH1	2402	Ant1	2.527	21	Pass
NVNT	2-DH1	2441	Ant1	3.182	21	Pass
NVNT	2-DH1	2480	Ant1	3.051	21	Pass
NVNT	3-DH1	2402	Ant1	3.257	21	Pass
NVNT	3-DH1	2441	Ant1	4.011	21	Pass
NVNT	3-DH1	2480	Ant1	3.731	21	Pass

Test Graphs

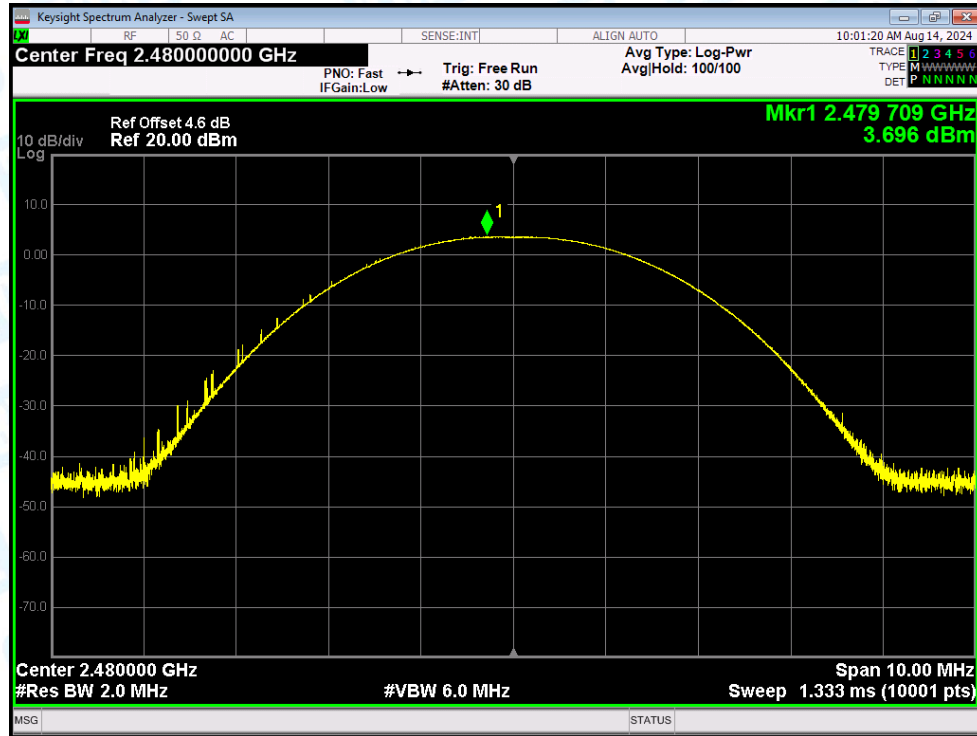
Power NVNT 1-DH1 2402MHz Ant1



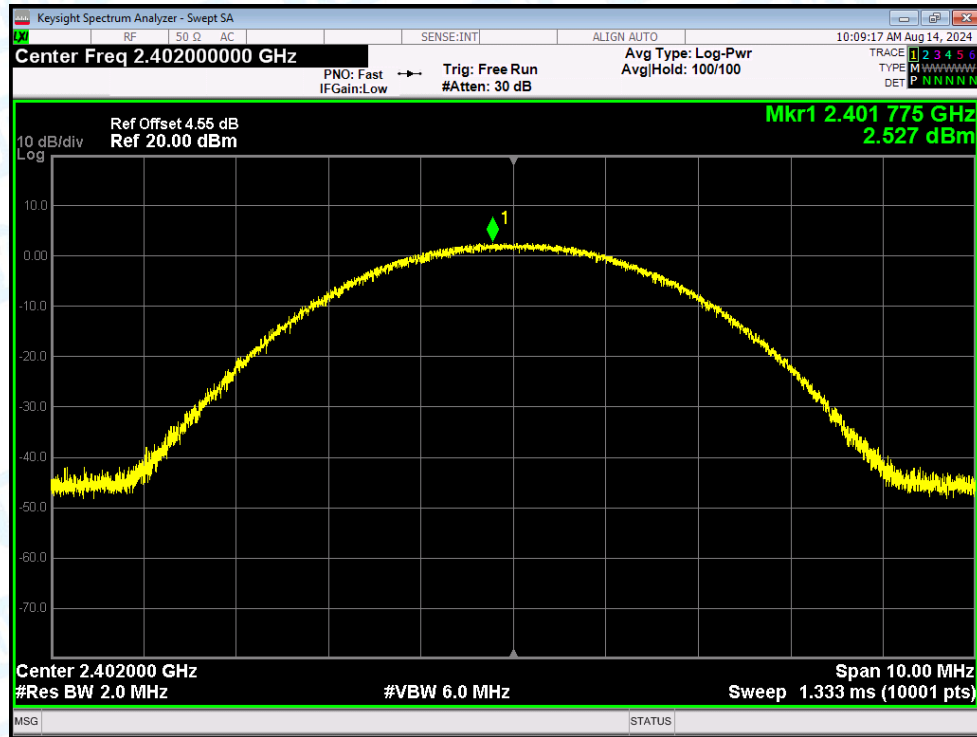
Power NVNT 1-DH1 2441MHz Ant1



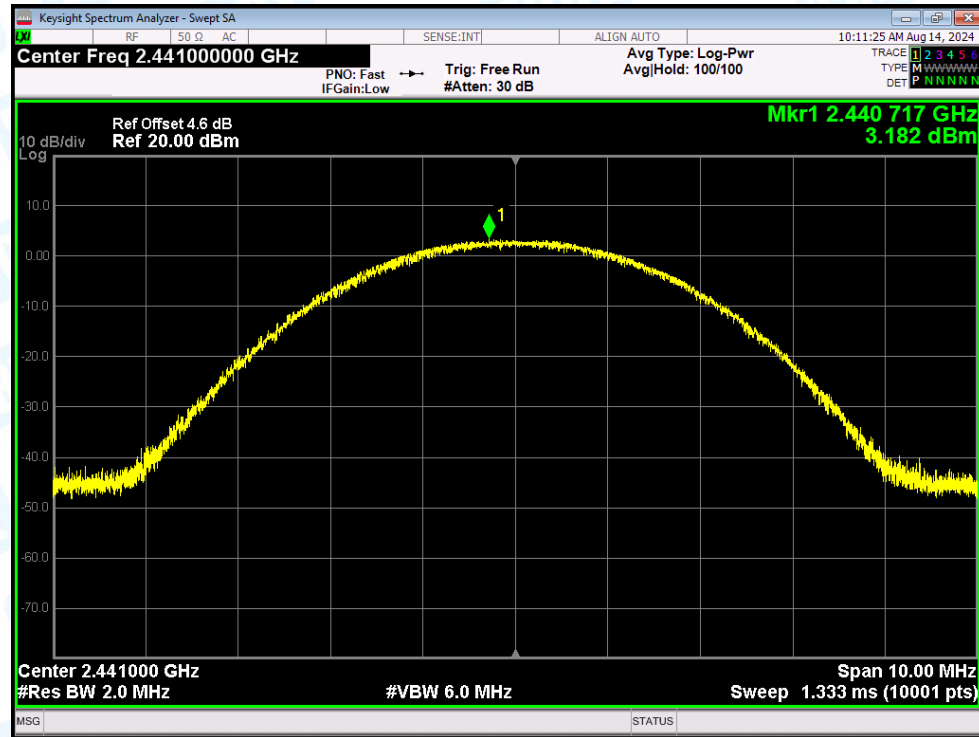
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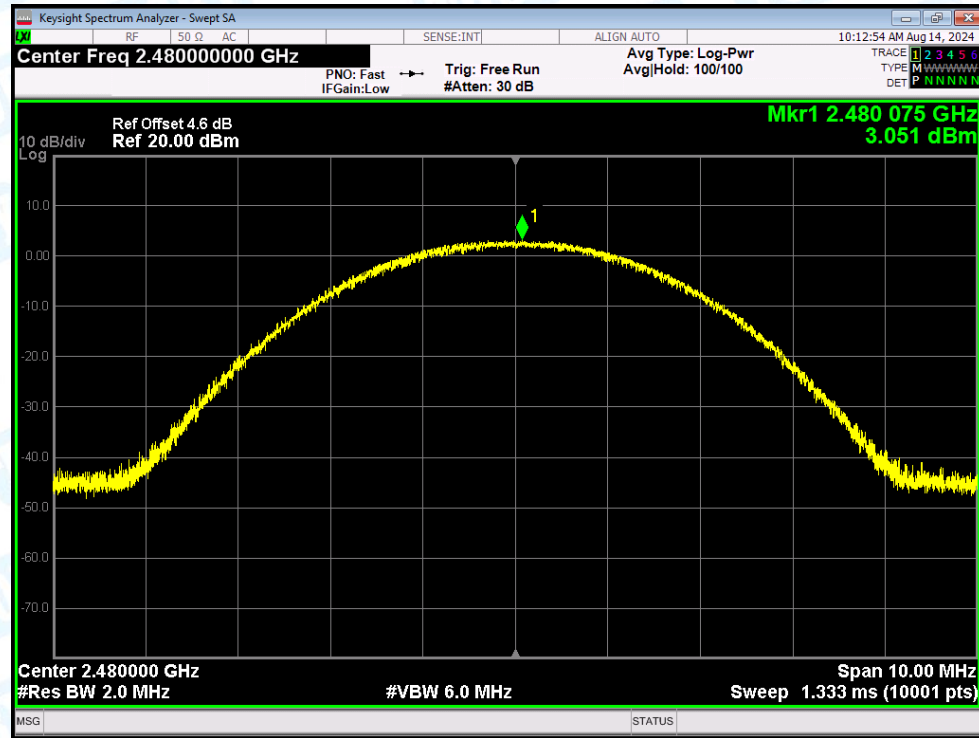
Power NVNT 2-DH1 2402MHz Ant1



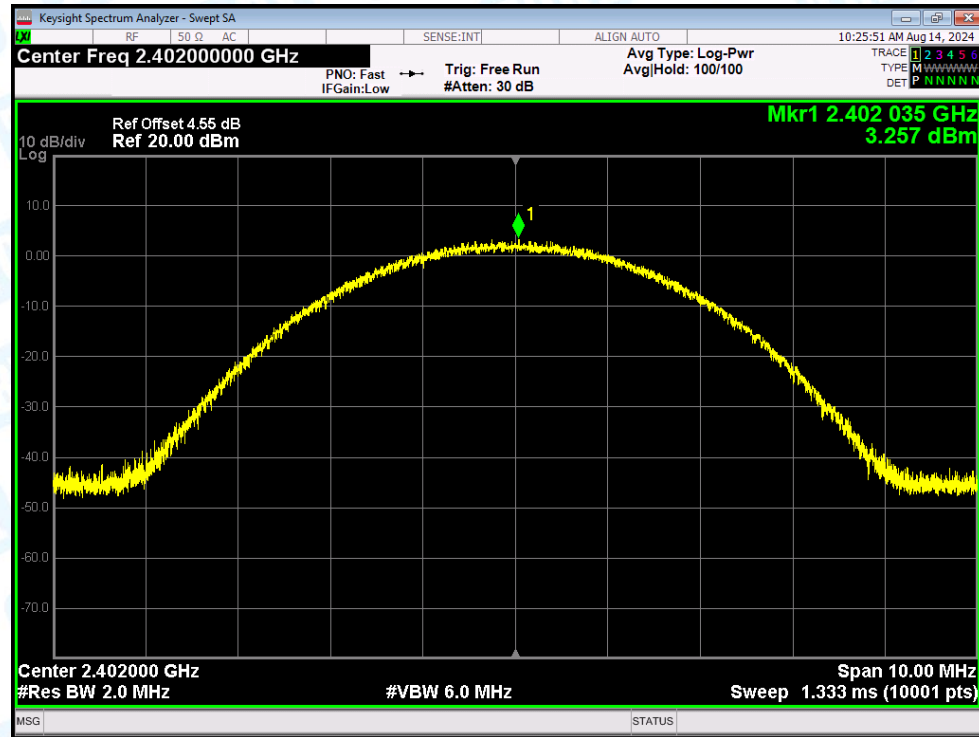
Power NVNT 2-DH1 2441MHz Ant1



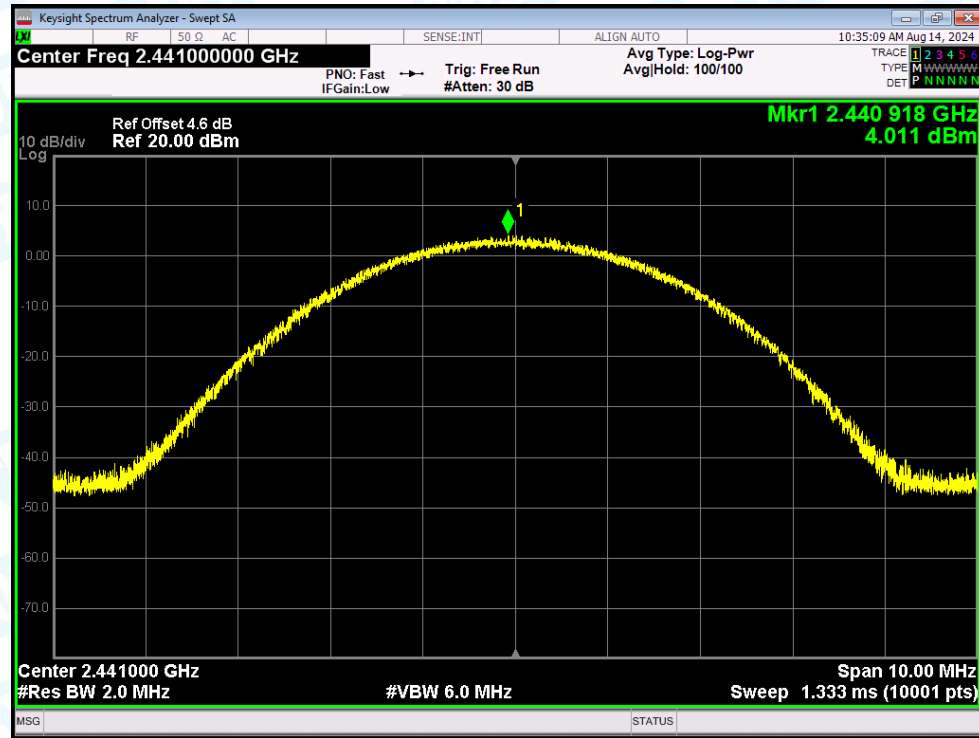
Power NVNT 2-DH1 2480MHz Ant1

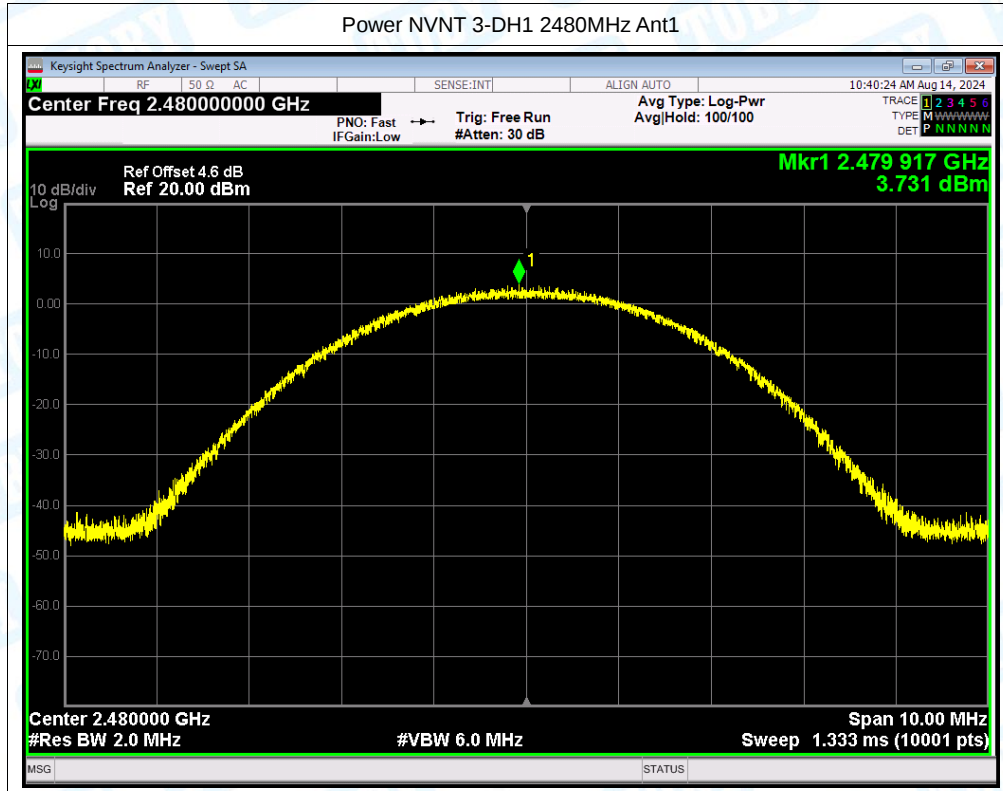


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



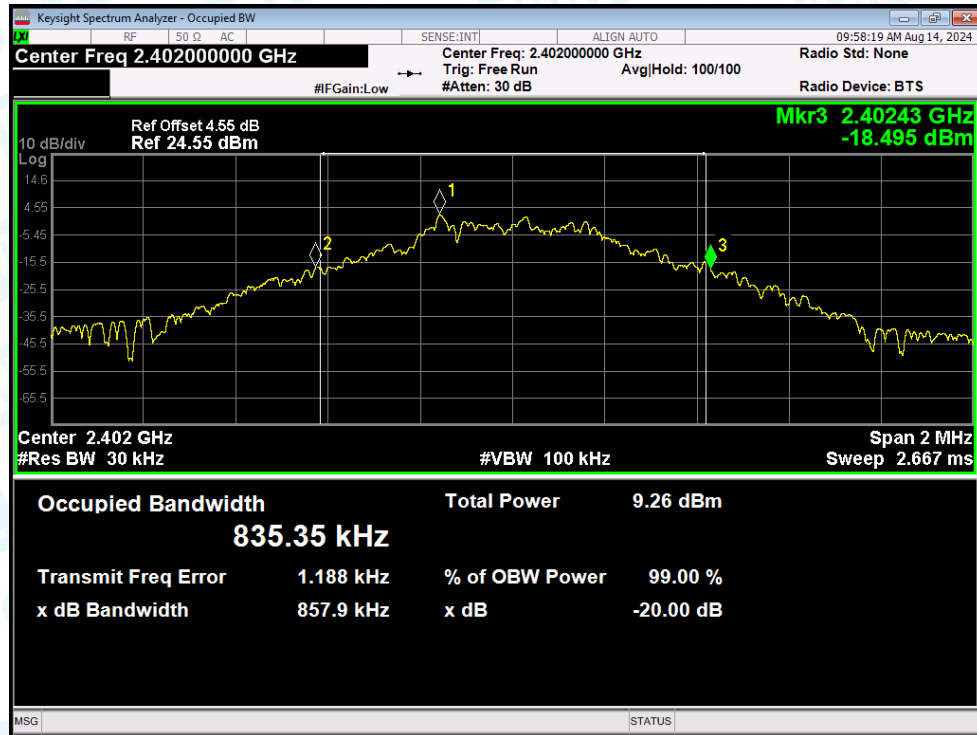


3. -20dB Bandwidth

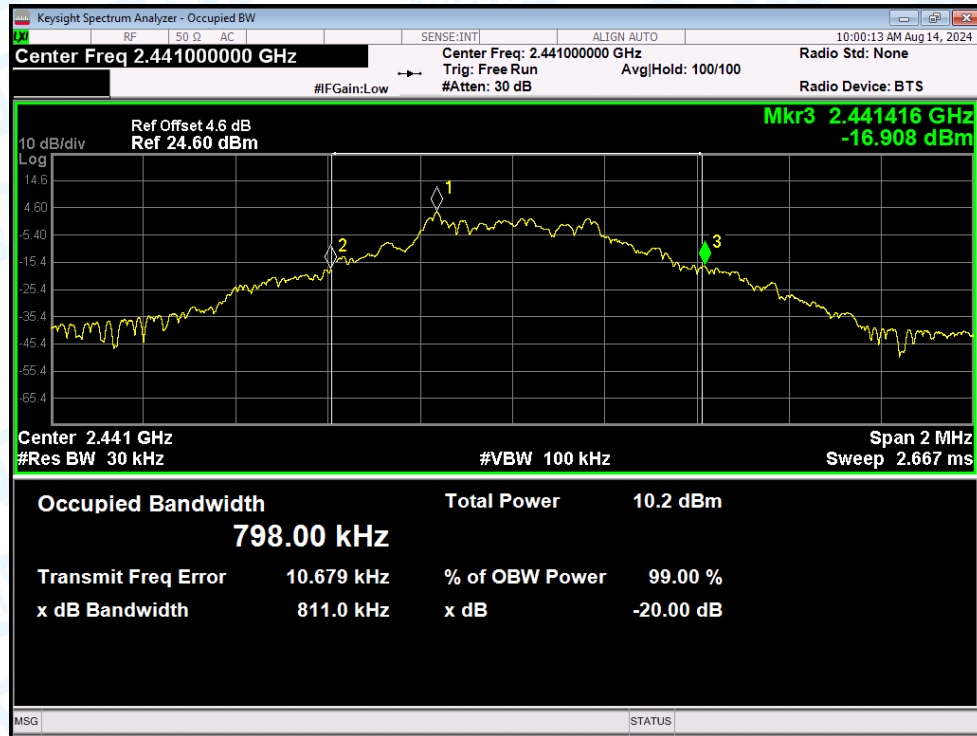
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.86	0	Pass
NVNT	1-DH1	2441	Ant1	0.81	0	Pass
NVNT	1-DH1	2480	Ant1	0.89	0	Pass
NVNT	2-DH1	2402	Ant1	1.28	0	Pass
NVNT	2-DH1	2441	Ant1	1.23	0	Pass
NVNT	2-DH1	2480	Ant1	1.26	0	Pass
NVNT	3-DH1	2402	Ant1	1.23	0	Pass
NVNT	3-DH1	2441	Ant1	1.22	0	Pass
NVNT	3-DH1	2480	Ant1	1.21	0	Pass

Test Graphs

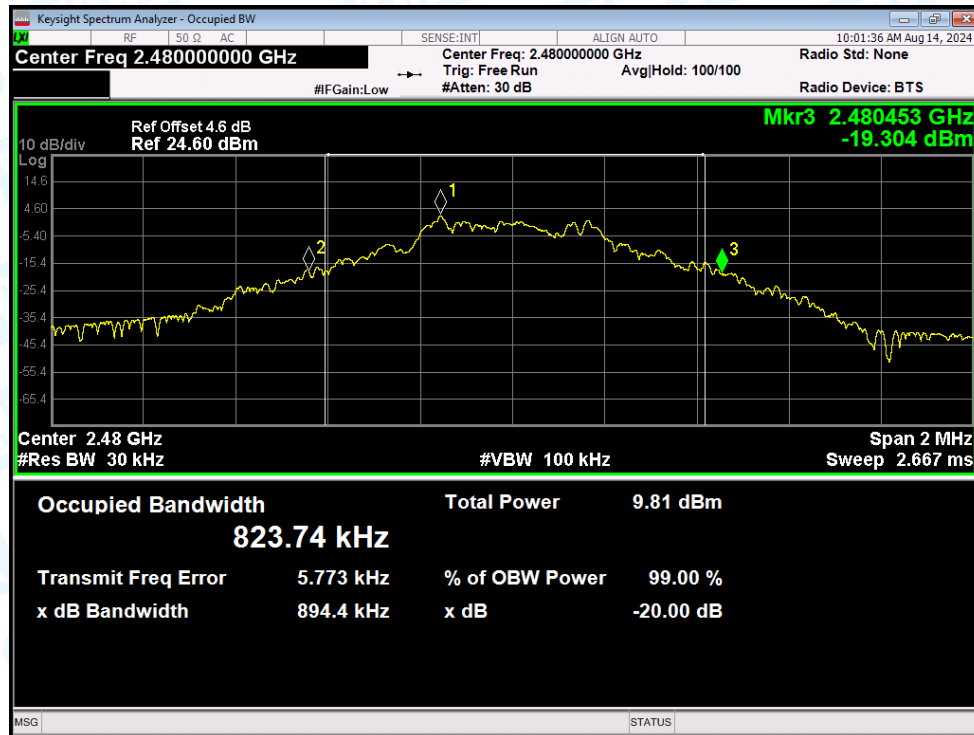
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



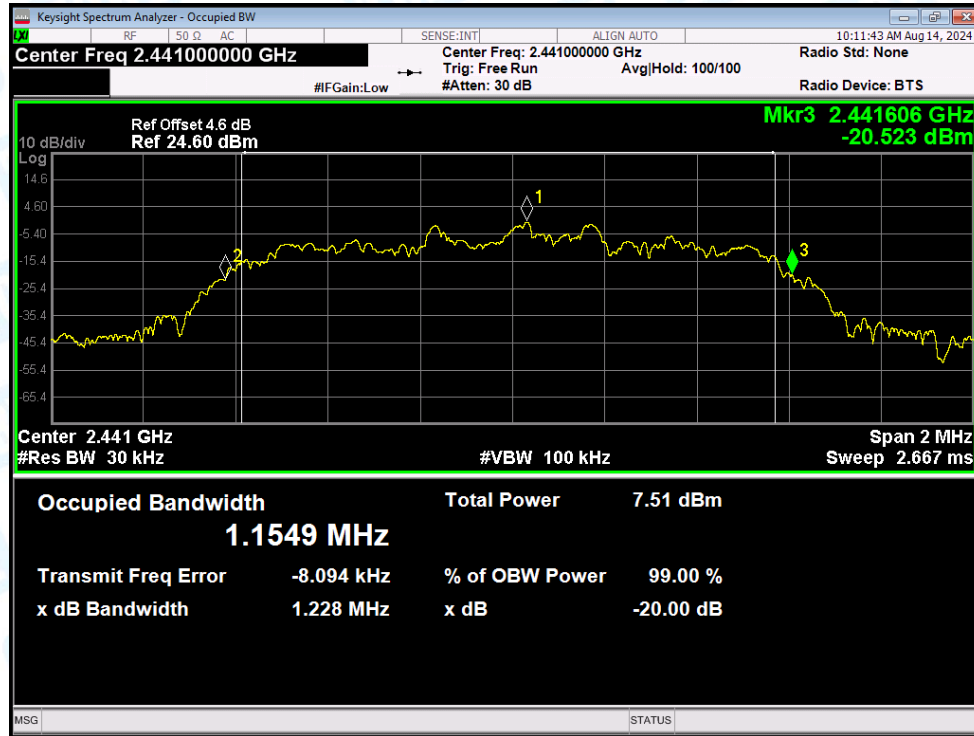
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



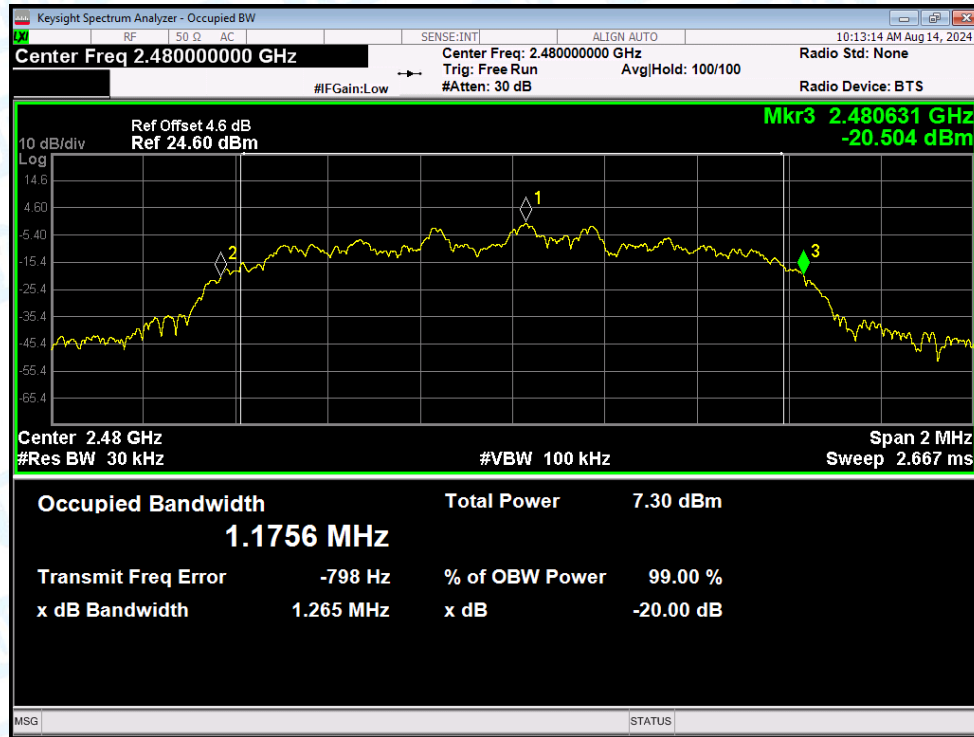
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



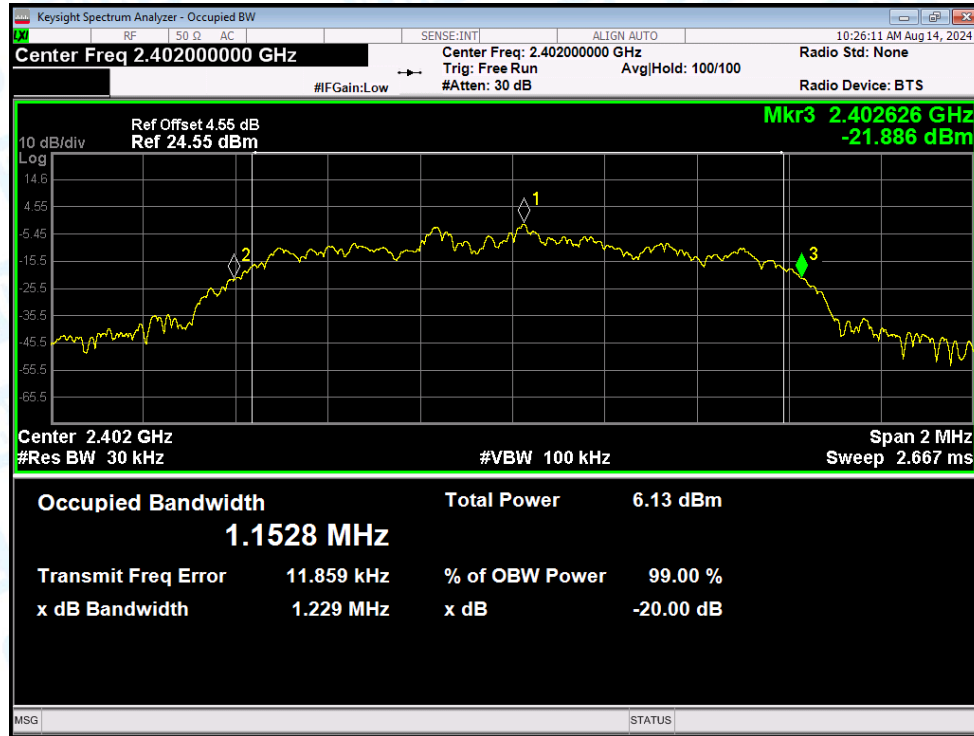
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



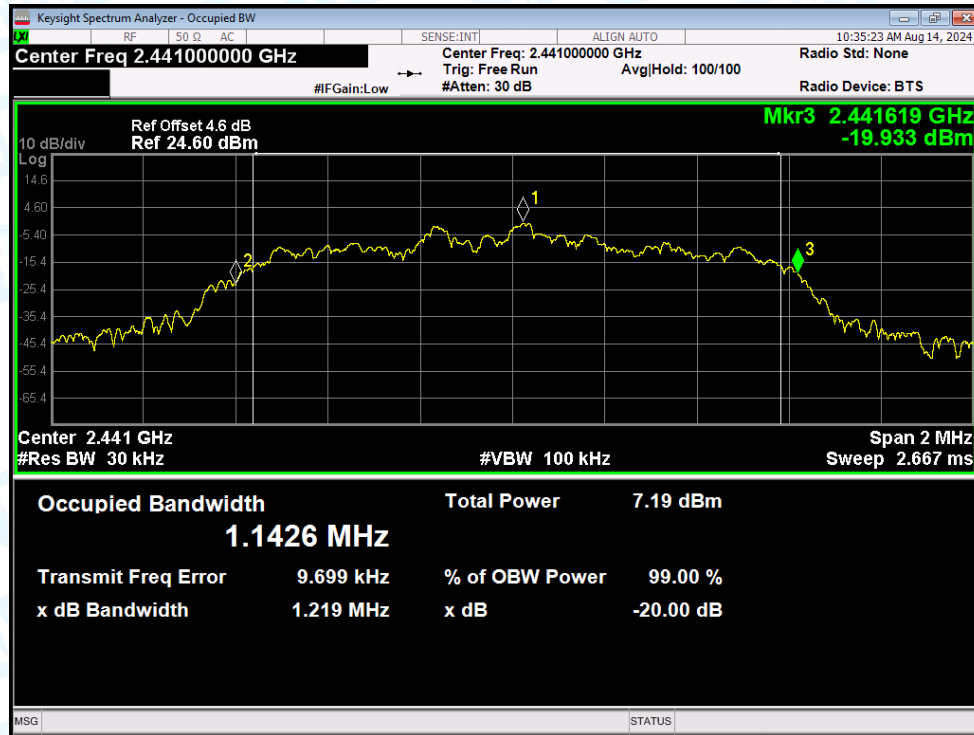
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

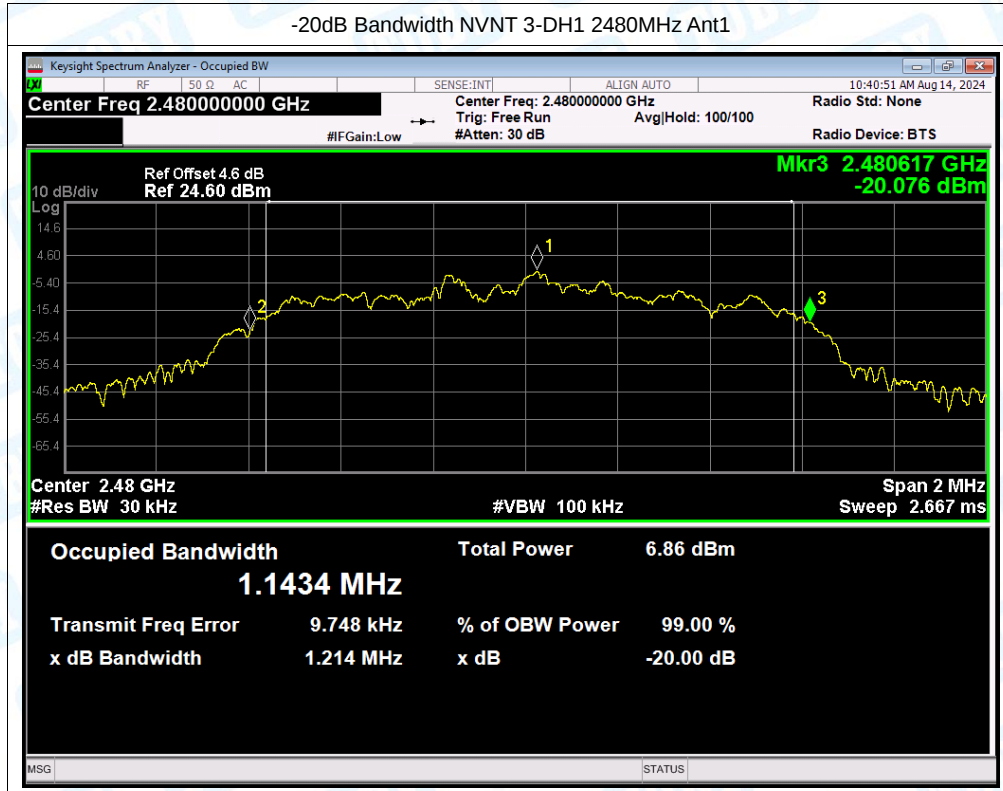


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



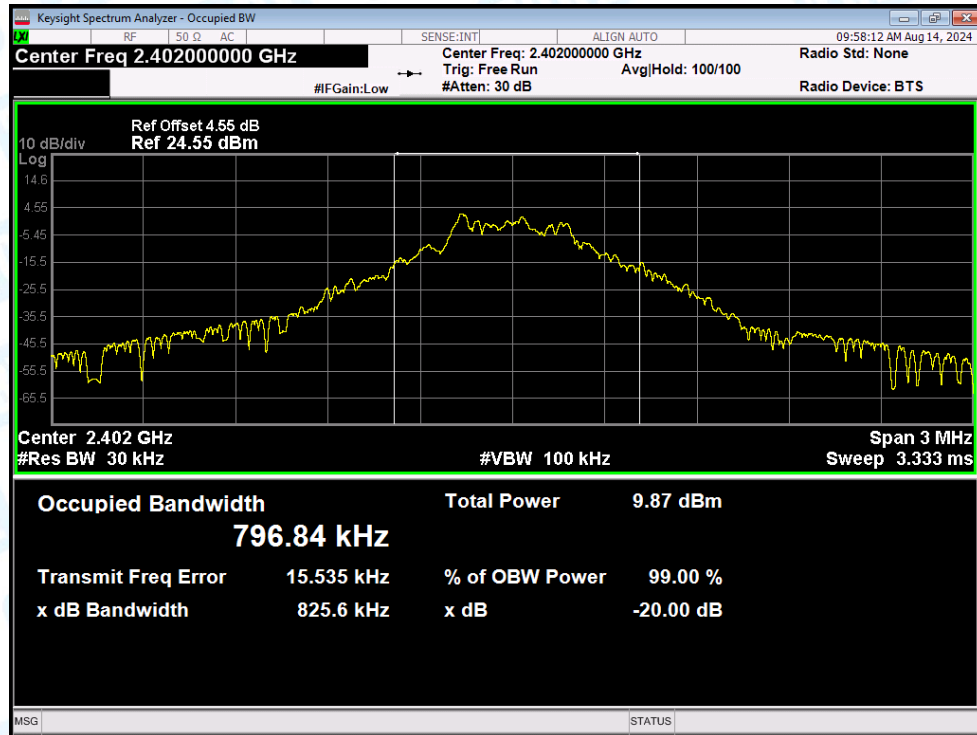


4. Occupied Channel Bandwidth

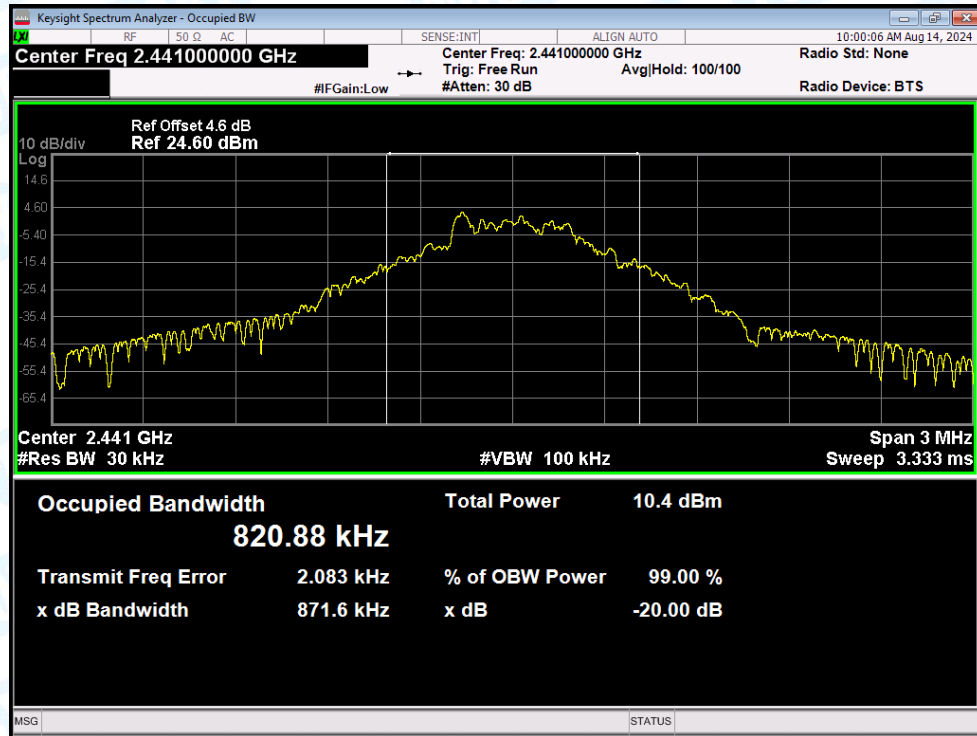
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.797
NVNT	1-DH1	2441	Ant1	0.821
NVNT	1-DH1	2480	Ant1	0.803
NVNT	2-DH1	2402	Ant1	1.172
NVNT	2-DH1	2441	Ant1	1.154
NVNT	2-DH1	2480	Ant1	1.162
NVNT	3-DH1	2402	Ant1	1.145
NVNT	3-DH1	2441	Ant1	1.16
NVNT	3-DH1	2480	Ant1	1.139

Test Graphs

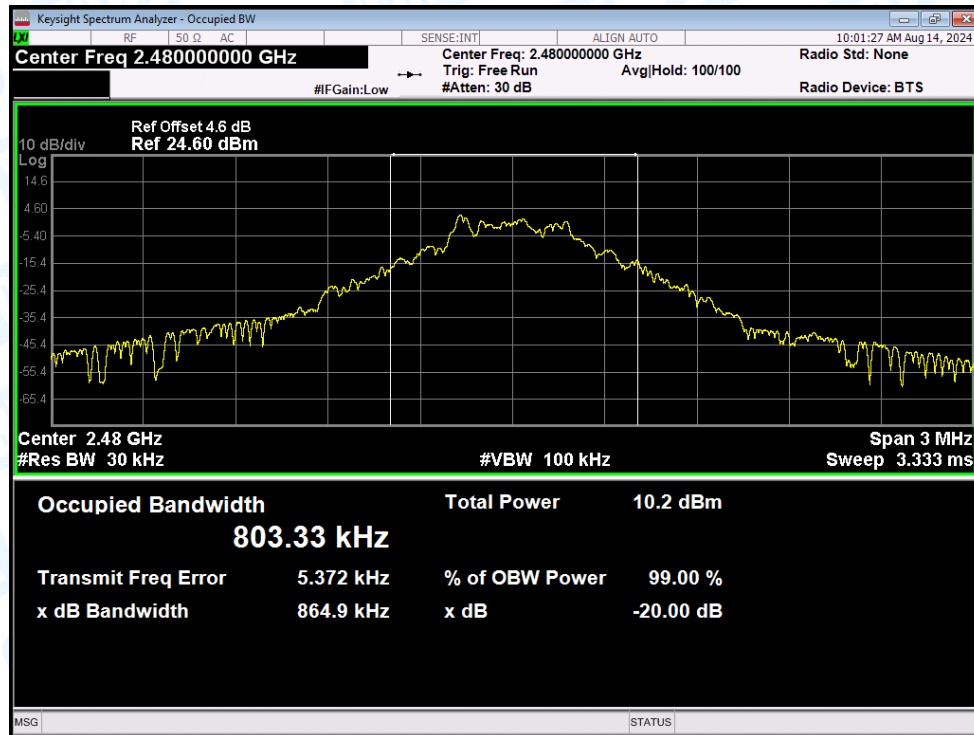
OBW NVNT 1-DH1 2402MHz Ant1



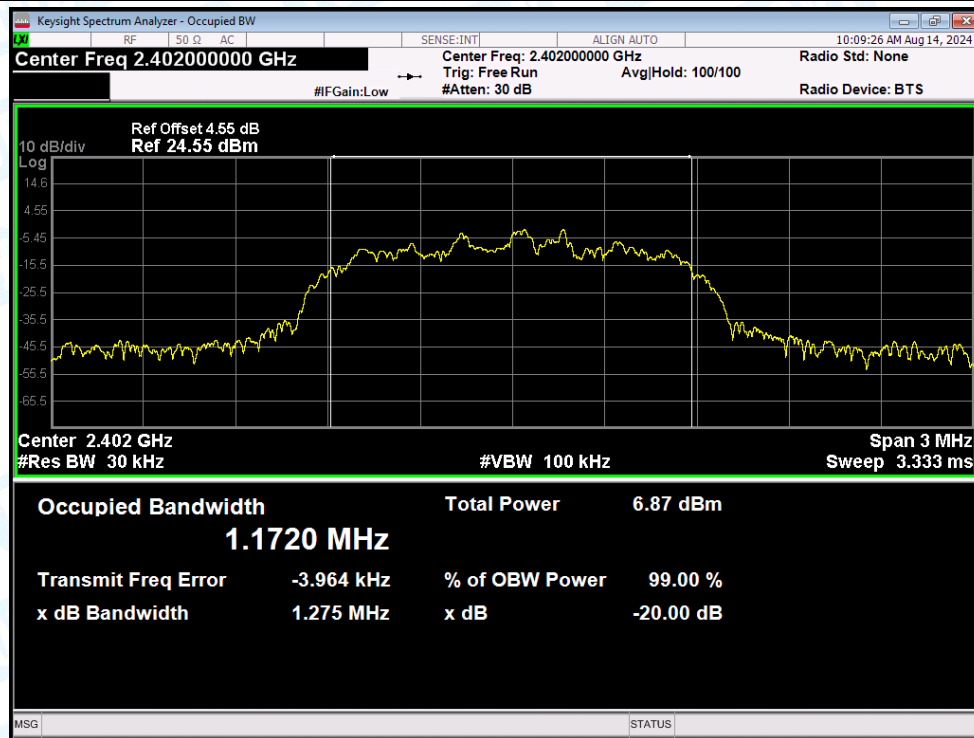
OBW NVNT 1-DH1 2441MHz Ant1



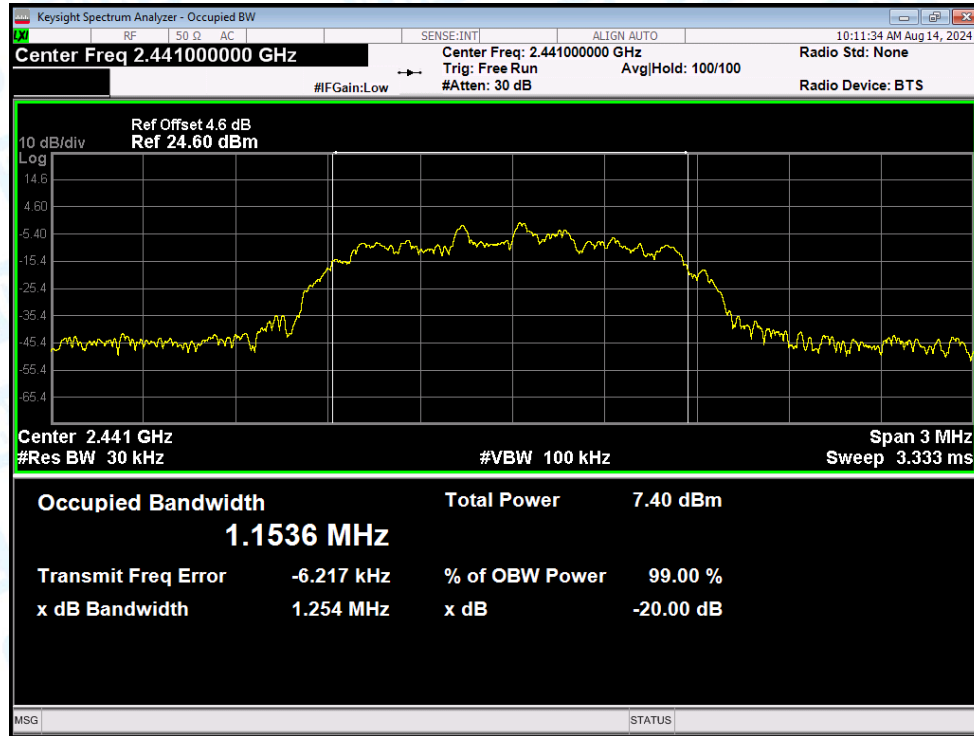
OBW NVNT 1-DH1 2480MHz Ant1



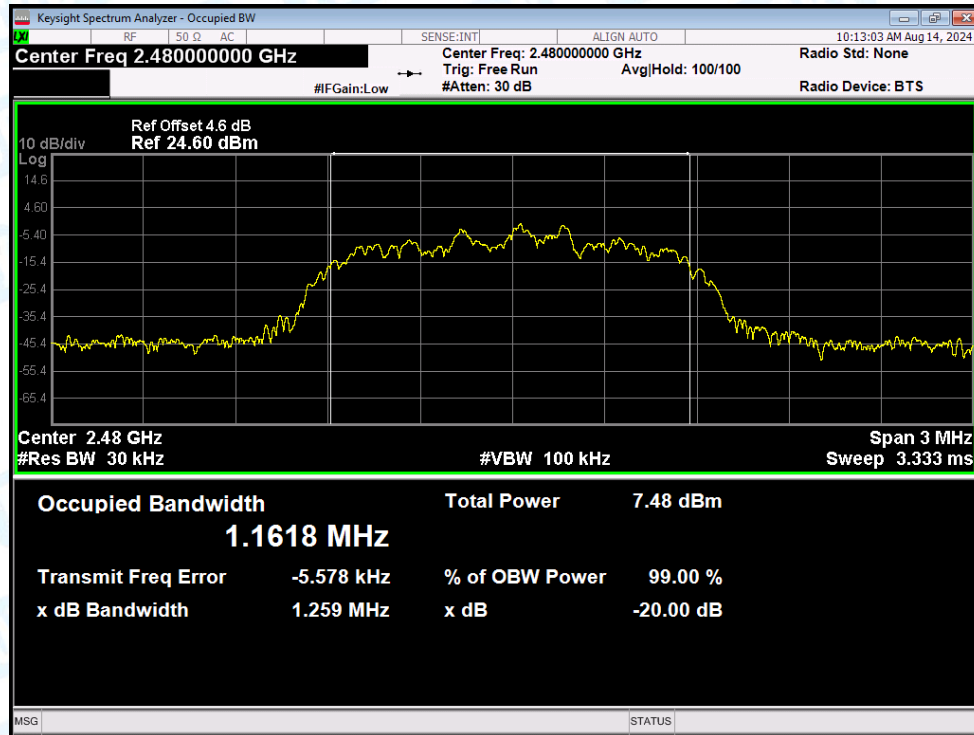
OBW NVNT 2-DH1 2402MHz Ant1



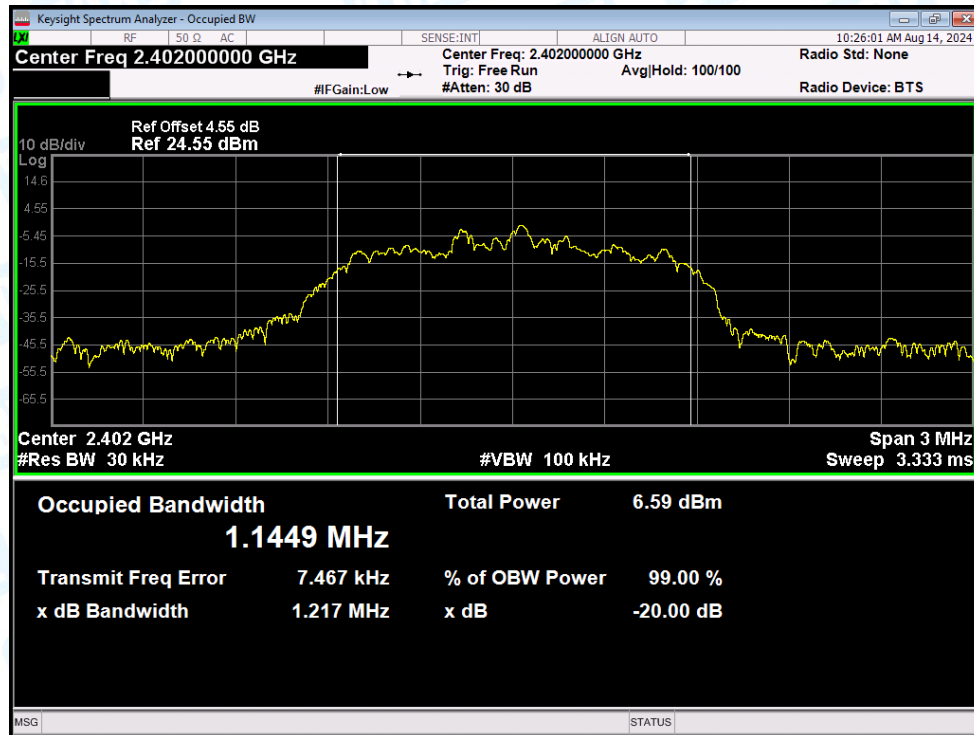
OBW NVNT 2-DH1 2441MHz Ant1



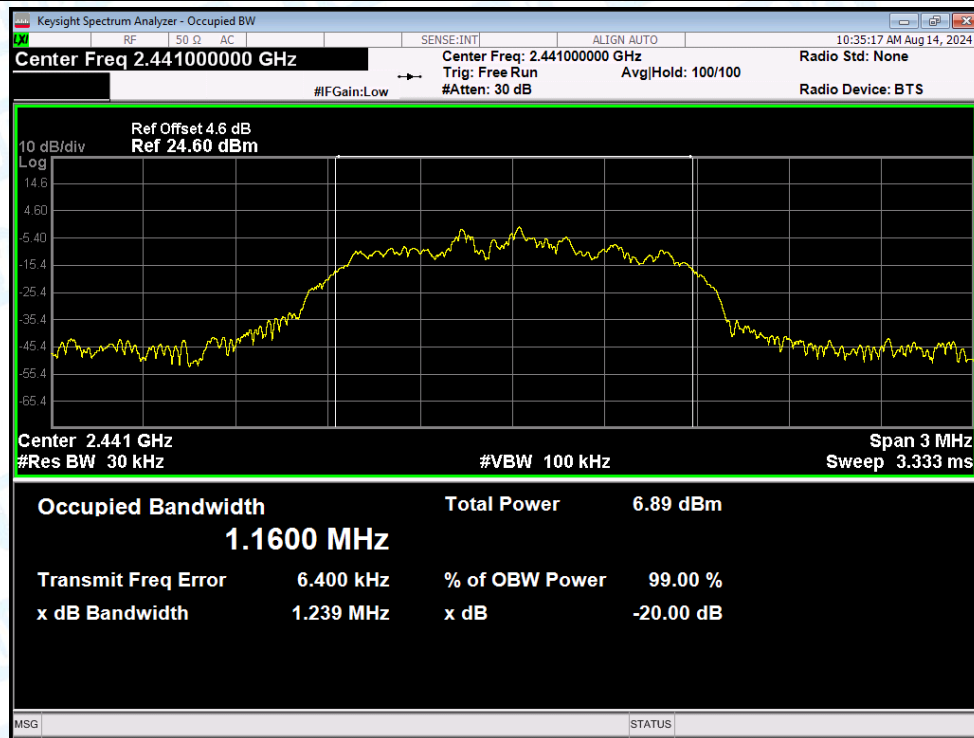
OBW NVNT 2-DH1 2480MHz Ant1

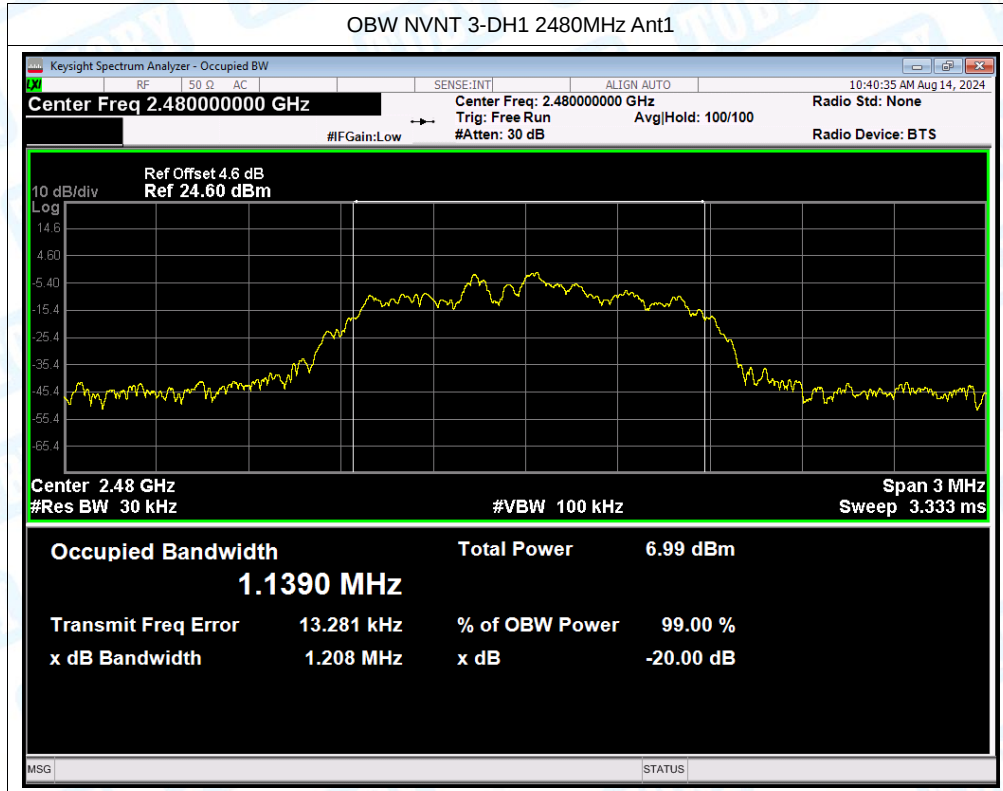


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



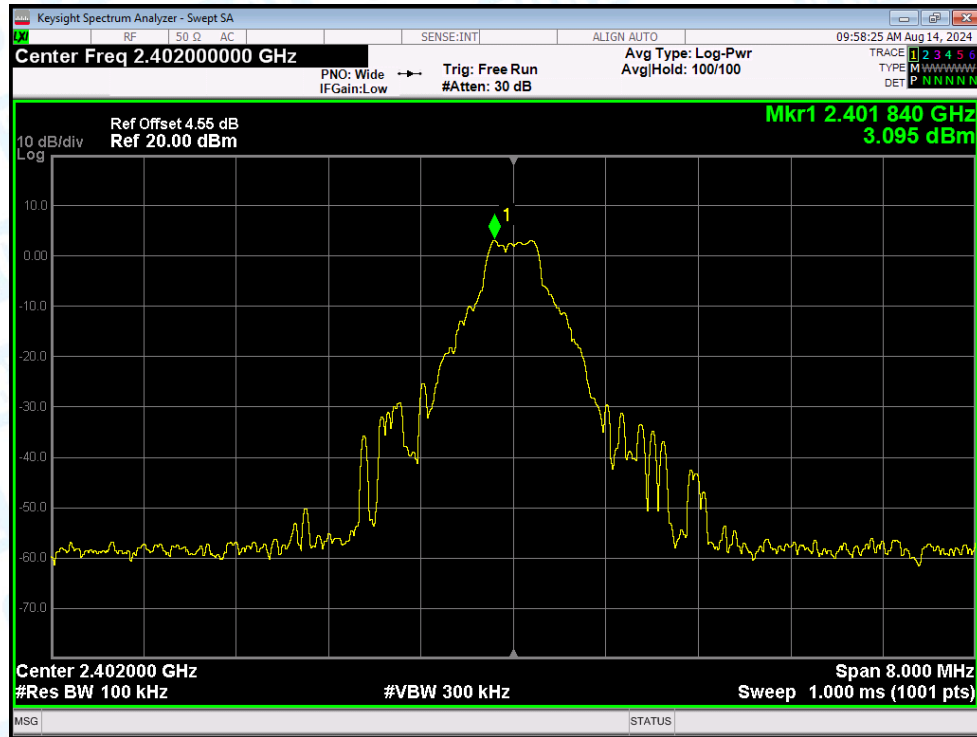


5. Band Edge

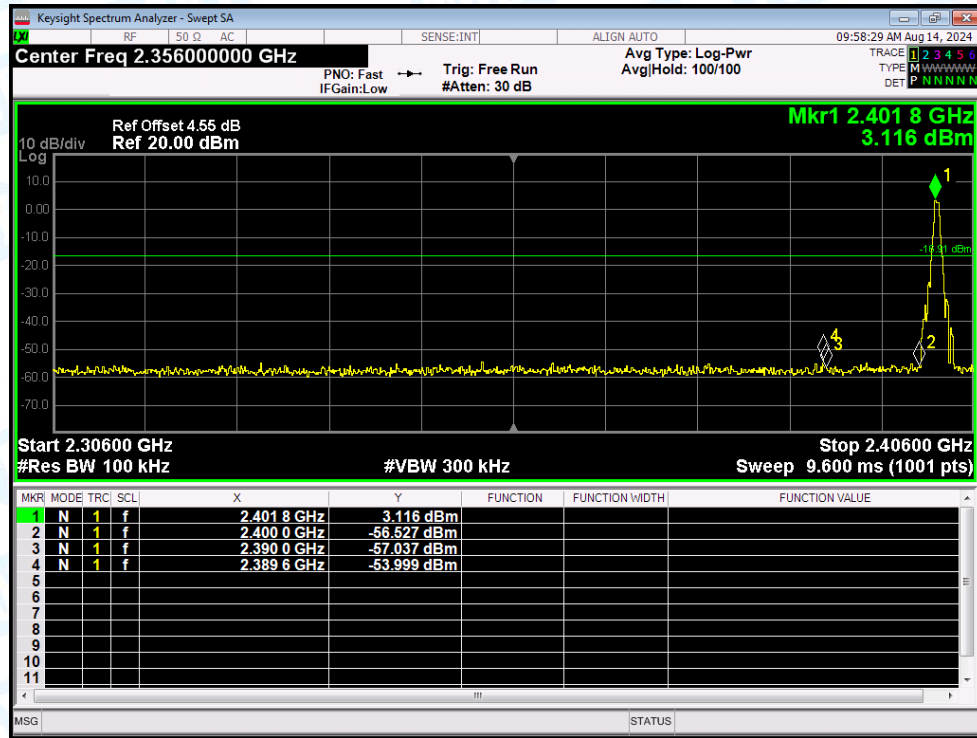
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-57.1	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-58.31	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-54.85	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-55.4	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-54.76	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-56	-20	Pass

Test Graphs

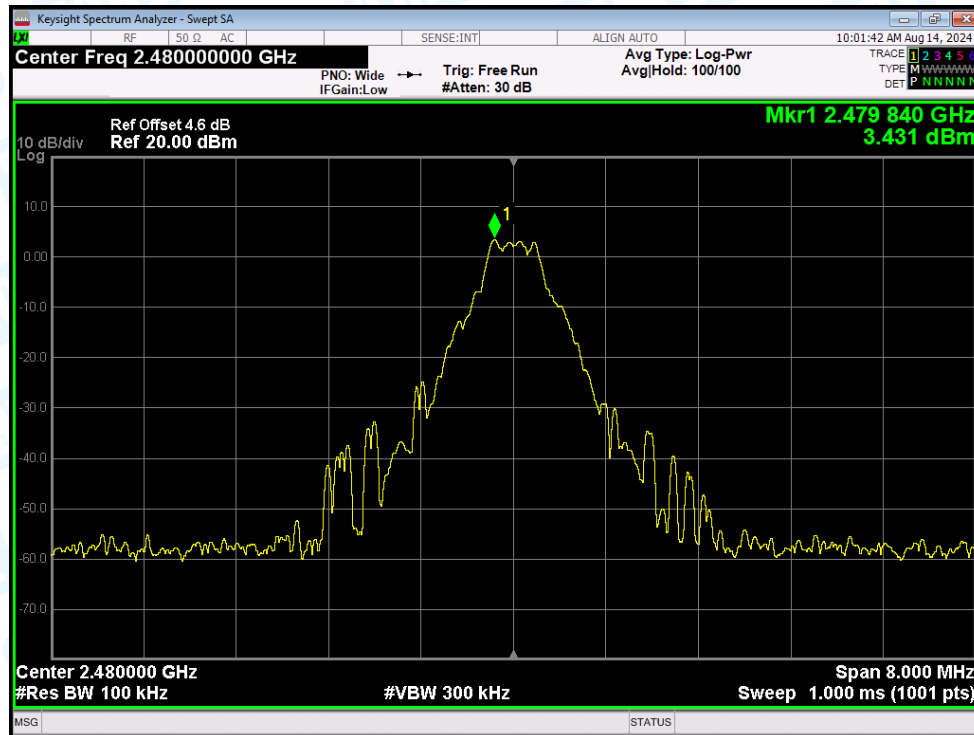
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



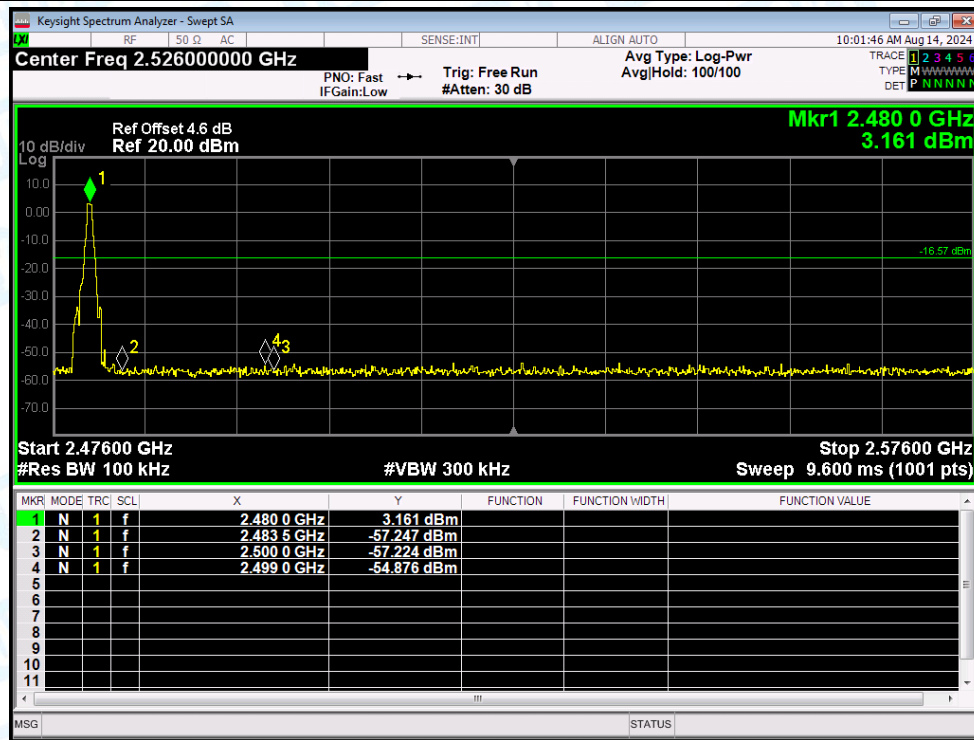
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

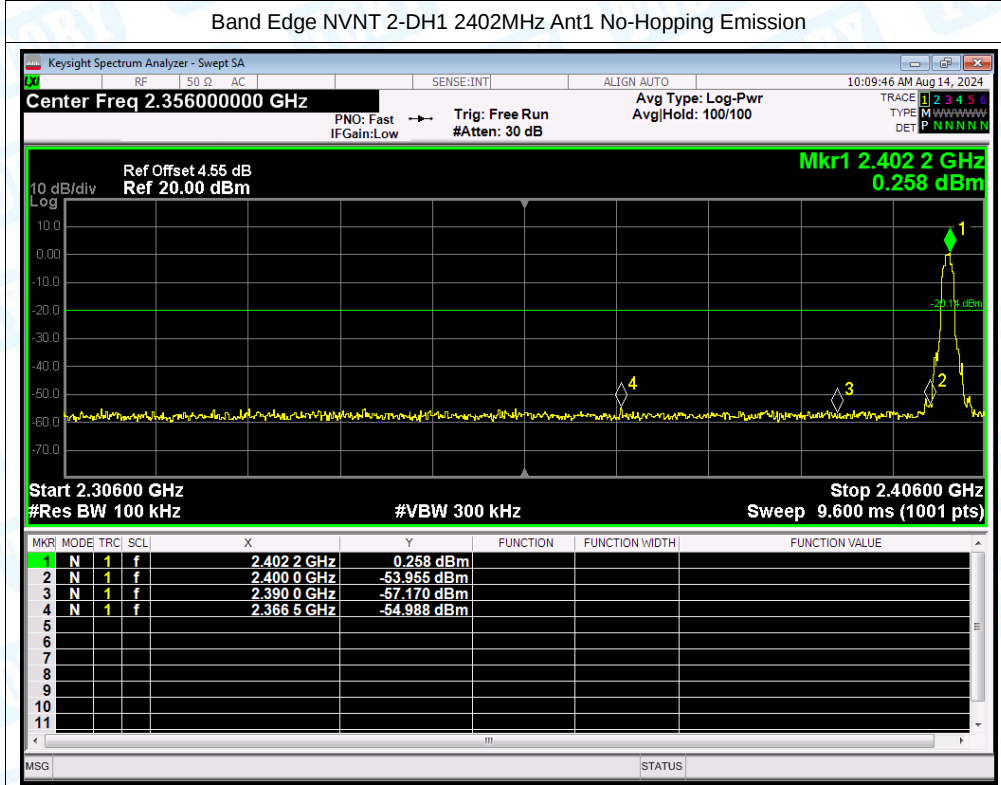
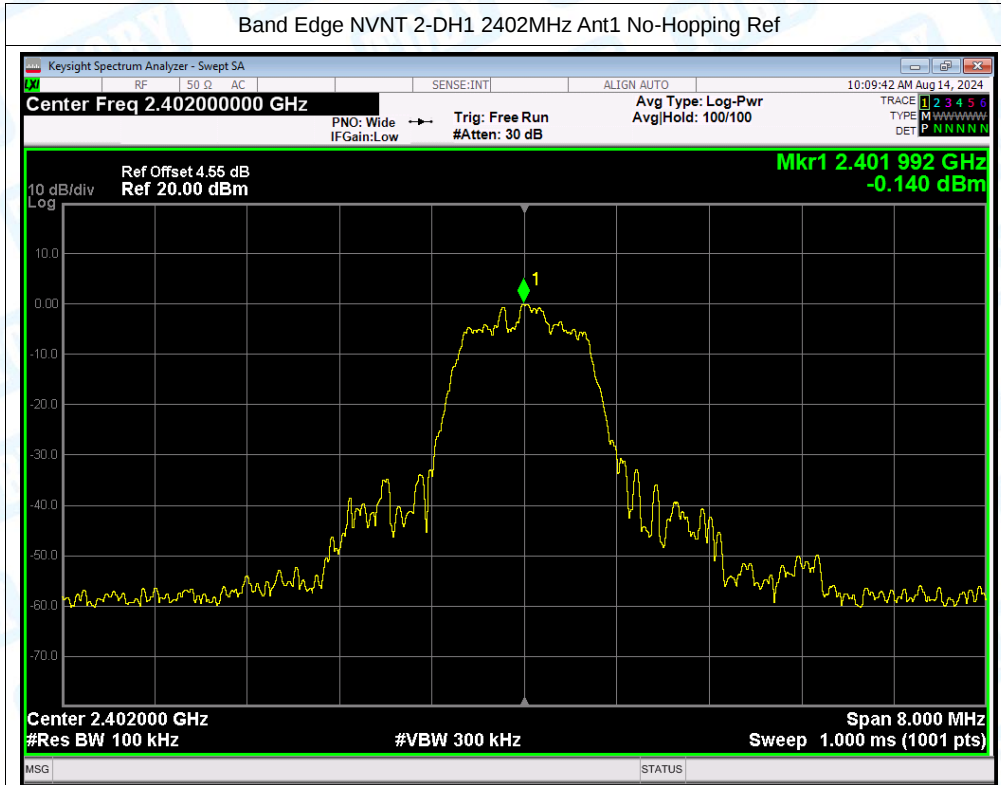


Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



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

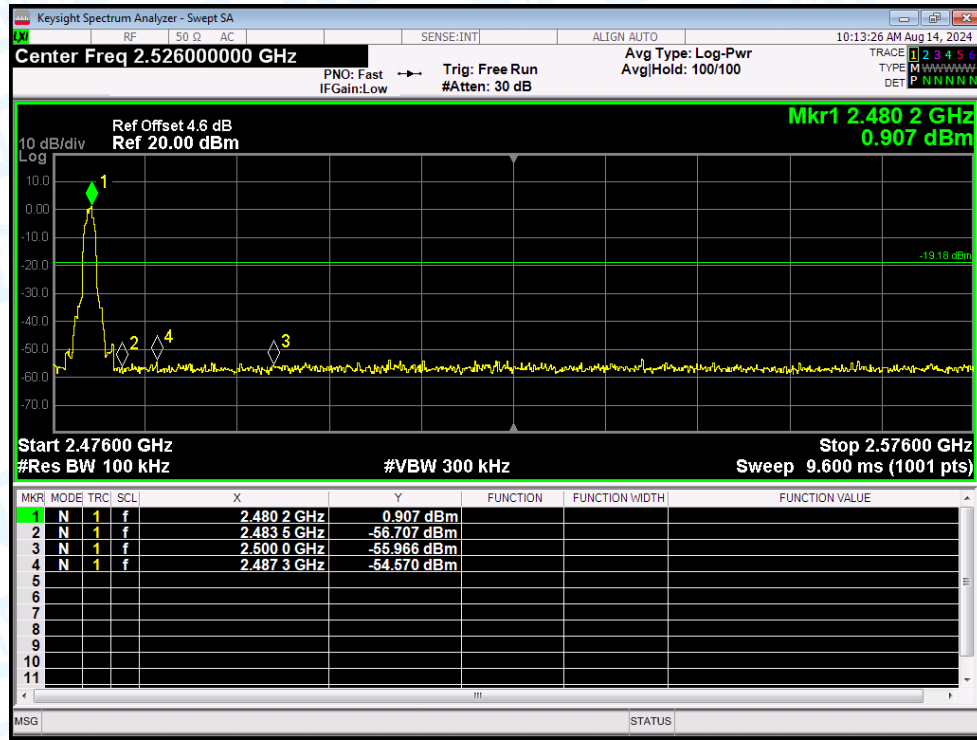




Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



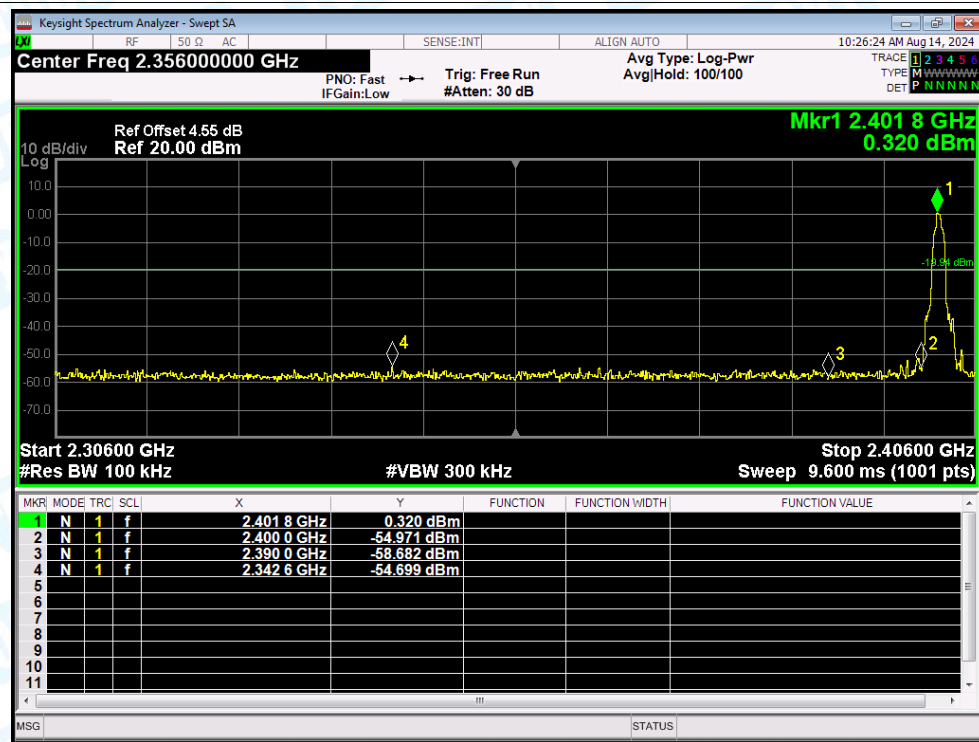
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



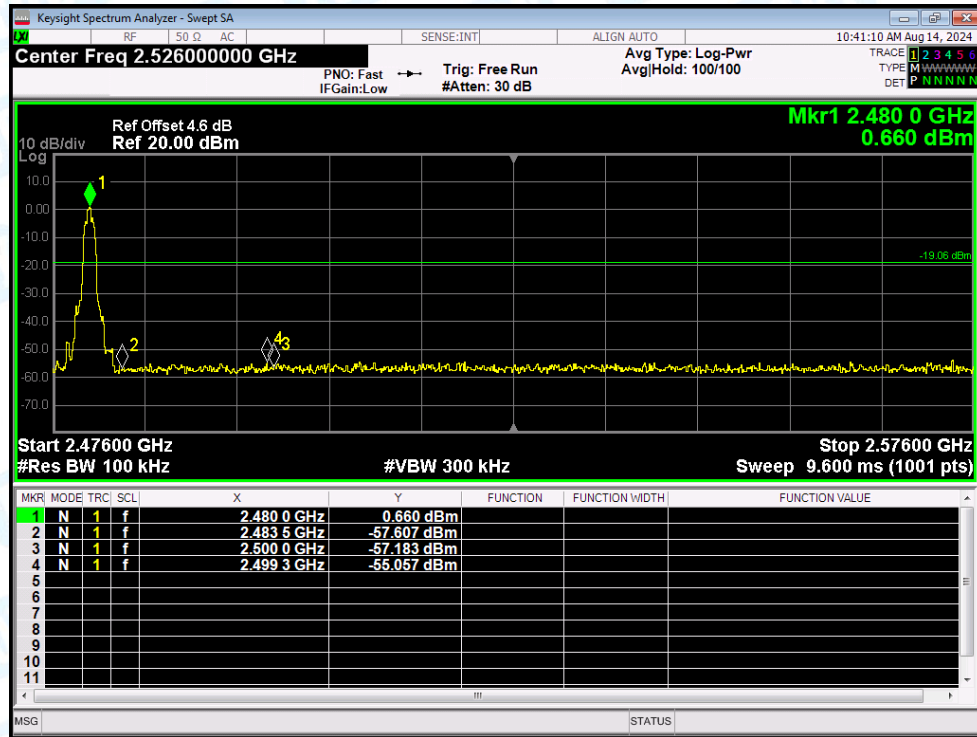
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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



6. Band Edge(Hopping)

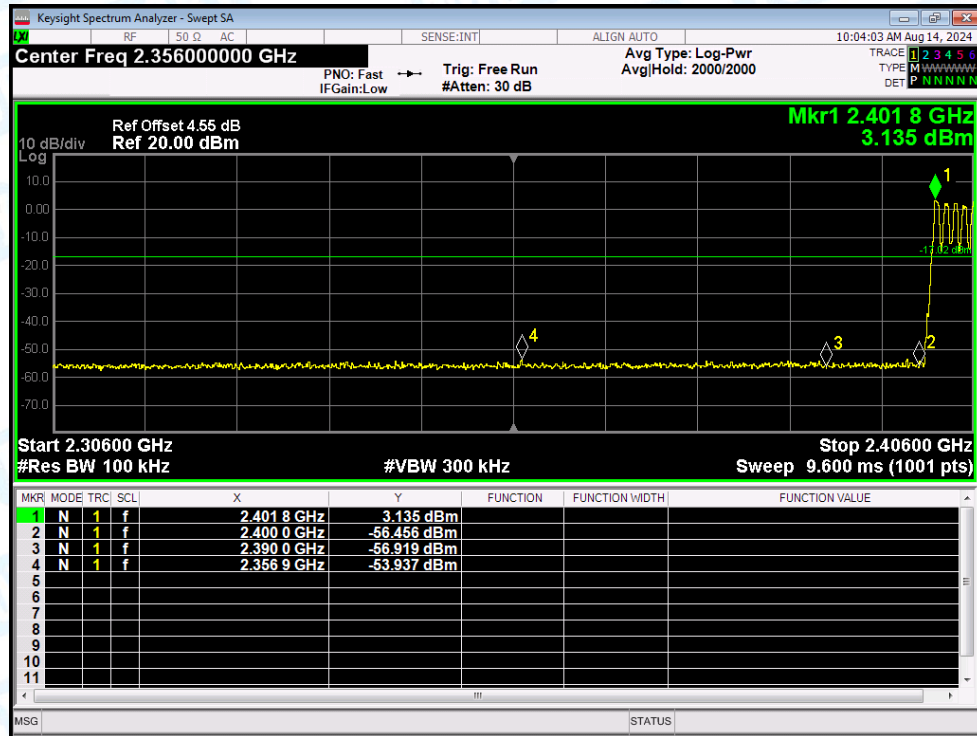
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-56.92	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-57.23	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-54.27	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-54.21	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-54.25	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-53.52	-20	Pass

Test Graphs

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



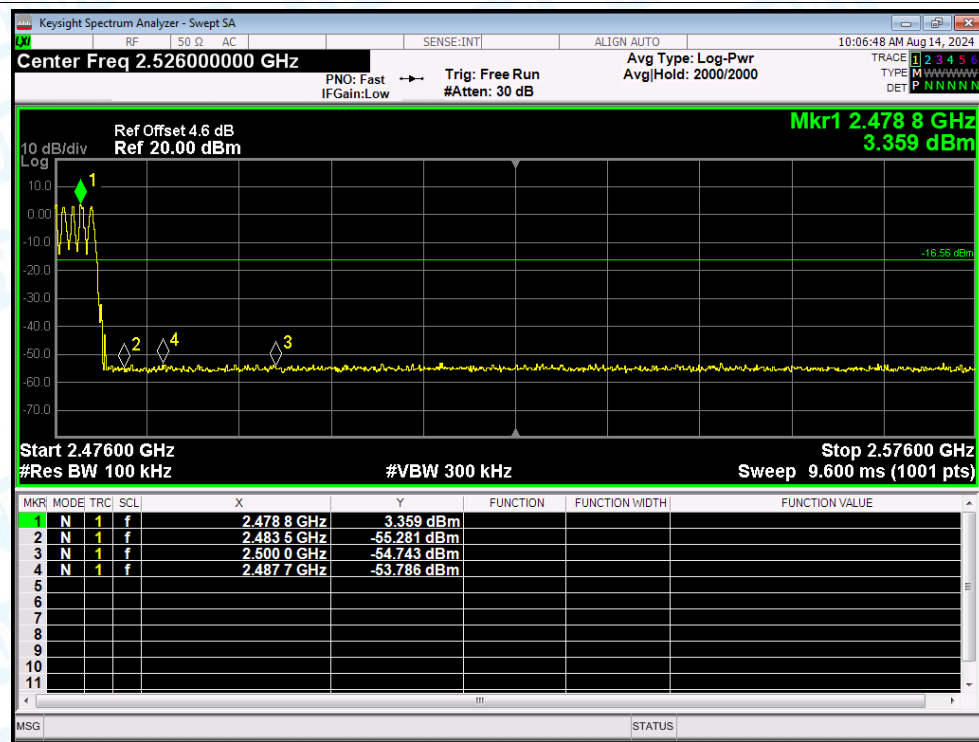
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



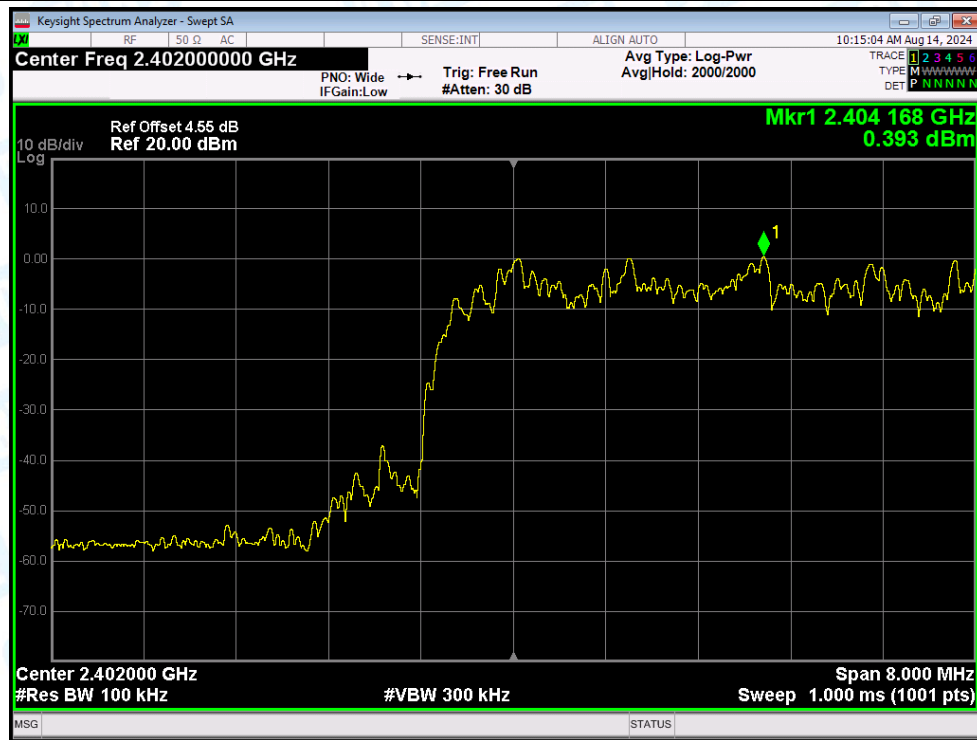
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref



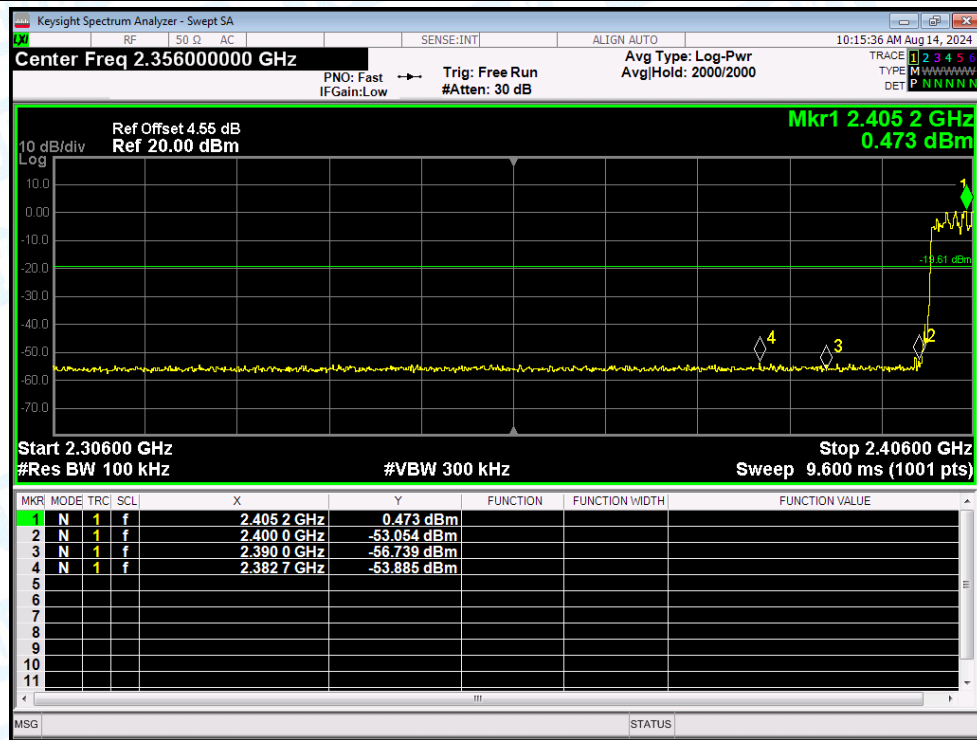
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



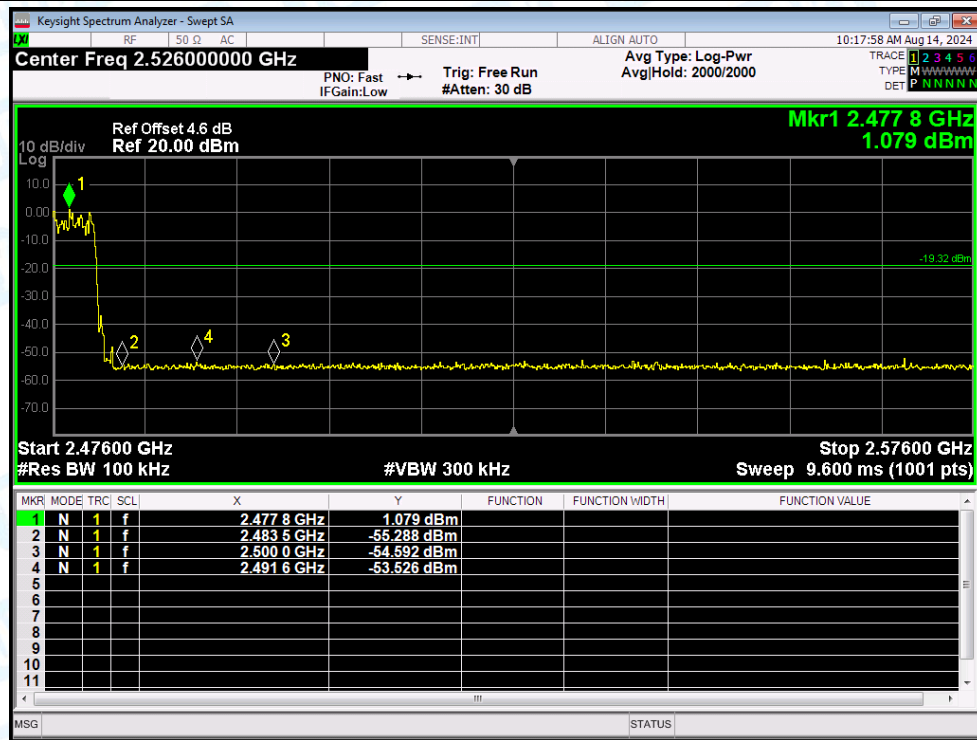
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



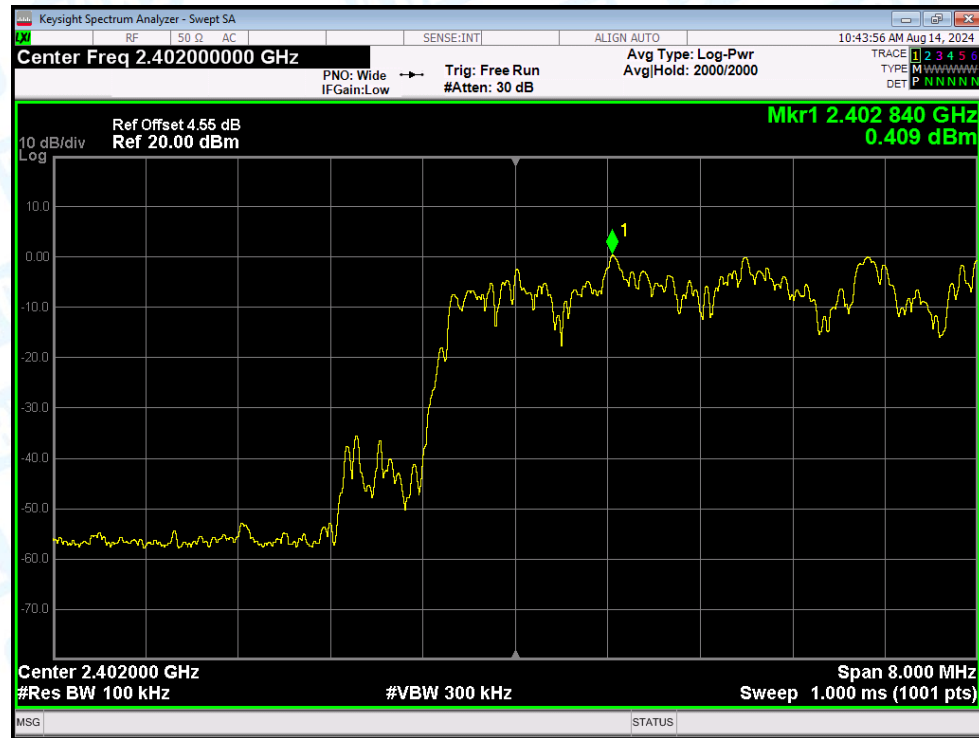
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



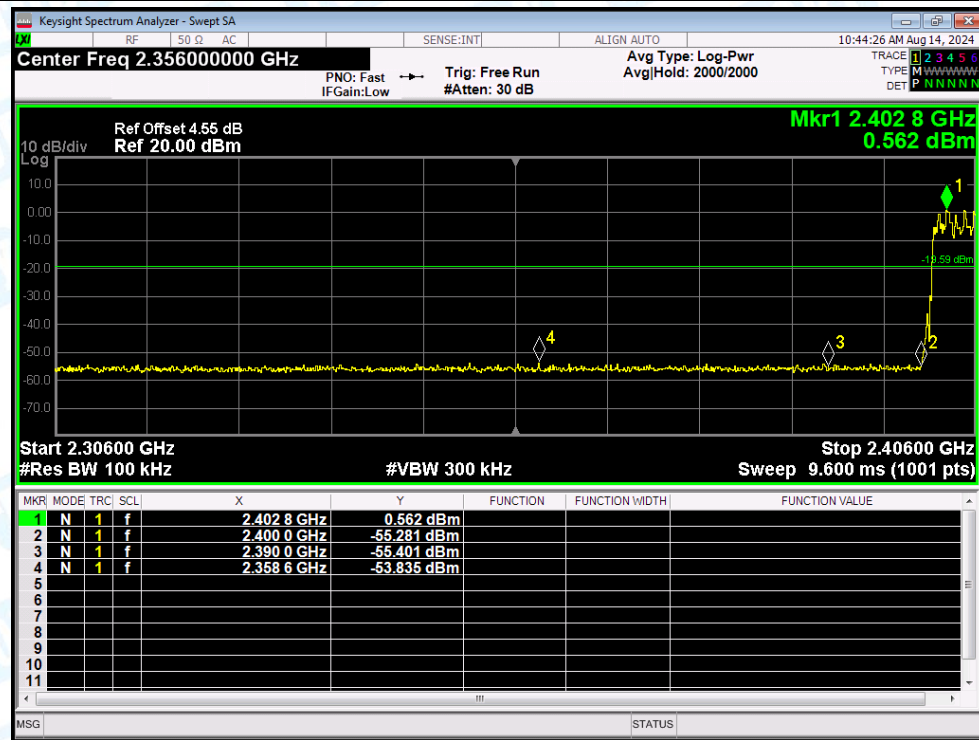
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



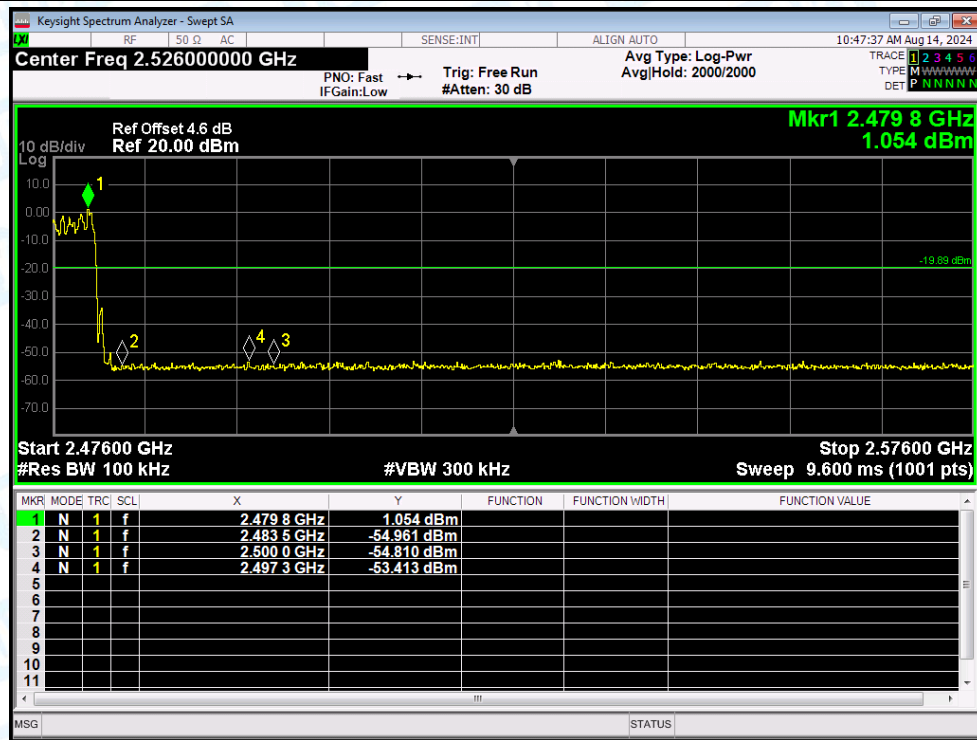
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

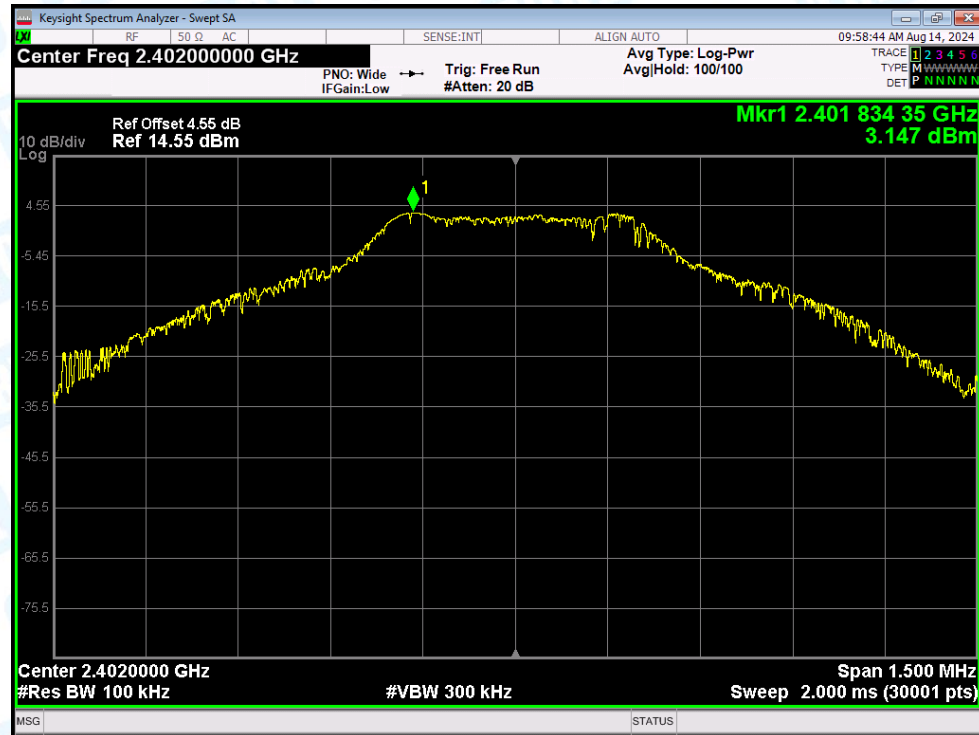


7. Conducted RF Spurious Emission

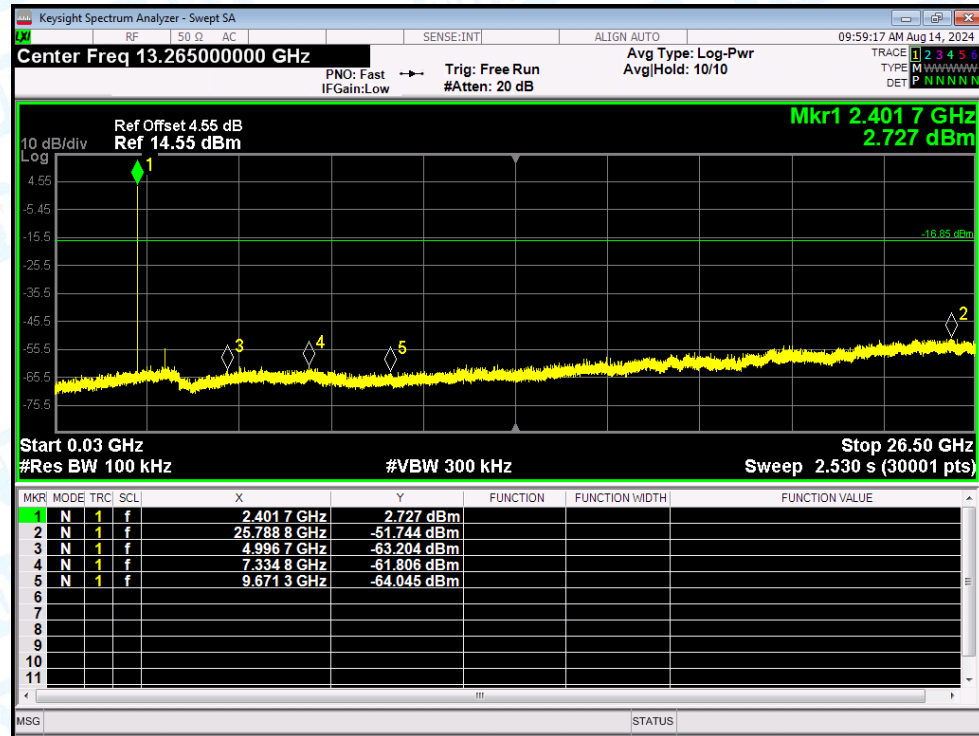
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-54.89	-20	Pass
NVNT	1-DH1	2441	Ant1	-54.58	-20	Pass
NVNT	1-DH1	2480	Ant1	-54.89	-20	Pass
NVNT	2-DH1	2402	Ant1	-51.69	-20	Pass
NVNT	2-DH1	2441	Ant1	-52.6	-20	Pass
NVNT	2-DH1	2480	Ant1	-52.28	-20	Pass
NVNT	3-DH1	2402	Ant1	-51.79	-20	Pass
NVNT	3-DH1	2441	Ant1	-53.03	-20	Pass
NVNT	3-DH1	2480	Ant1	-52.7	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



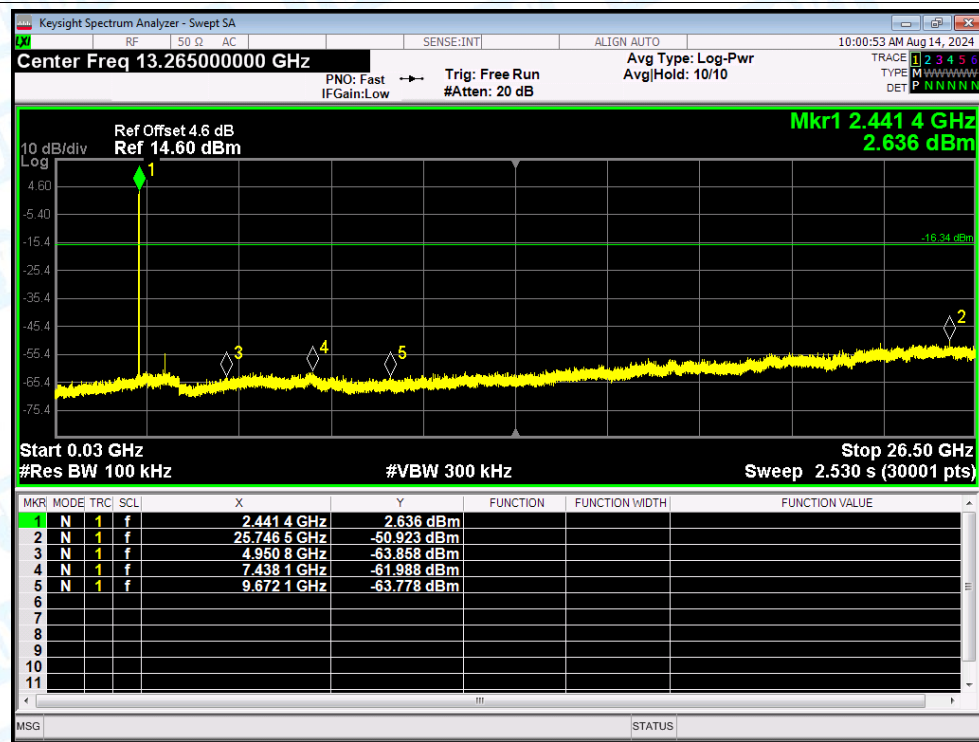
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



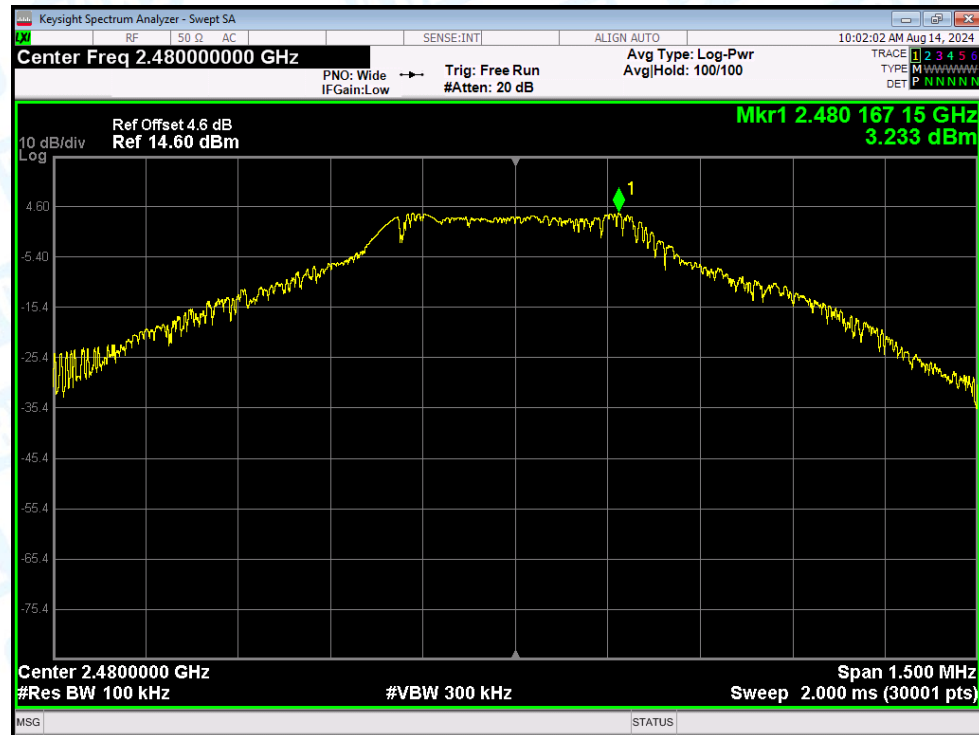
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



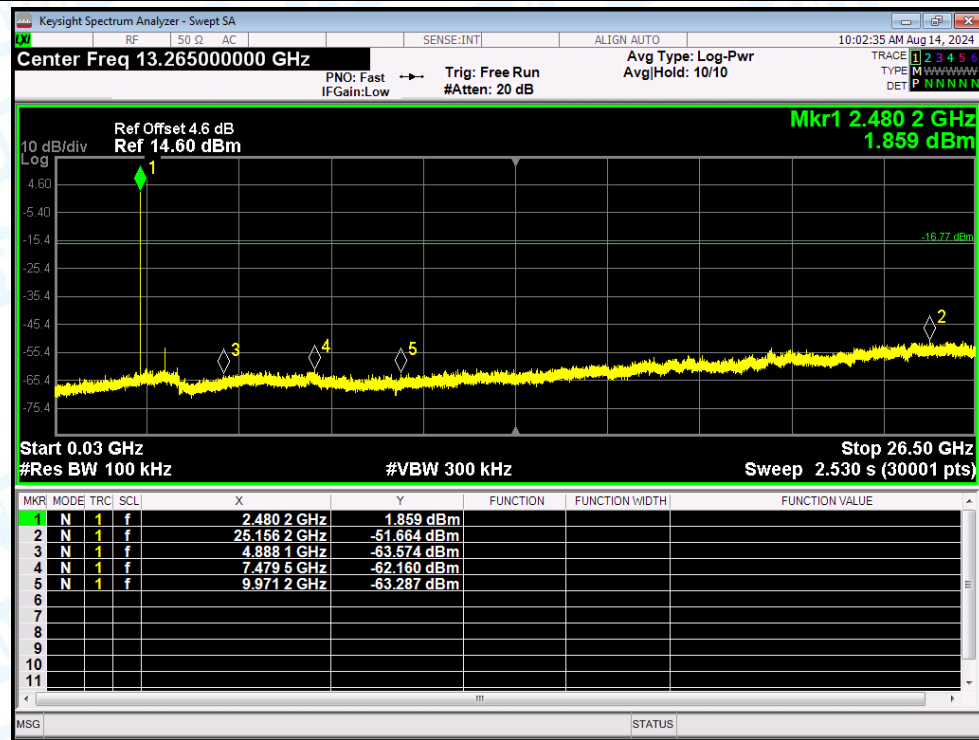
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



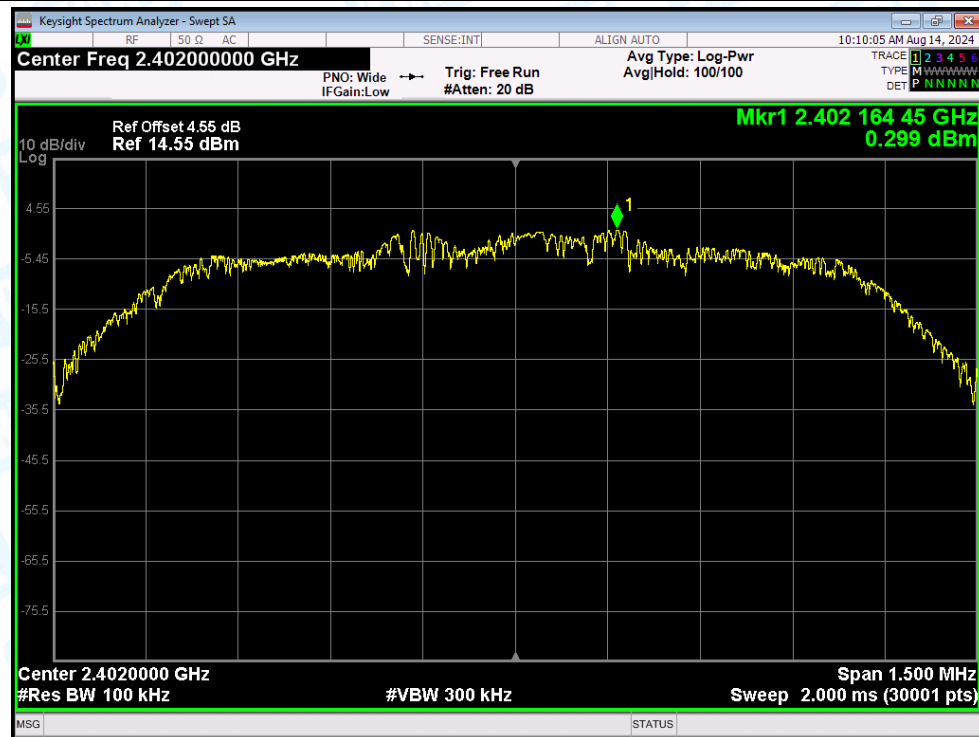
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



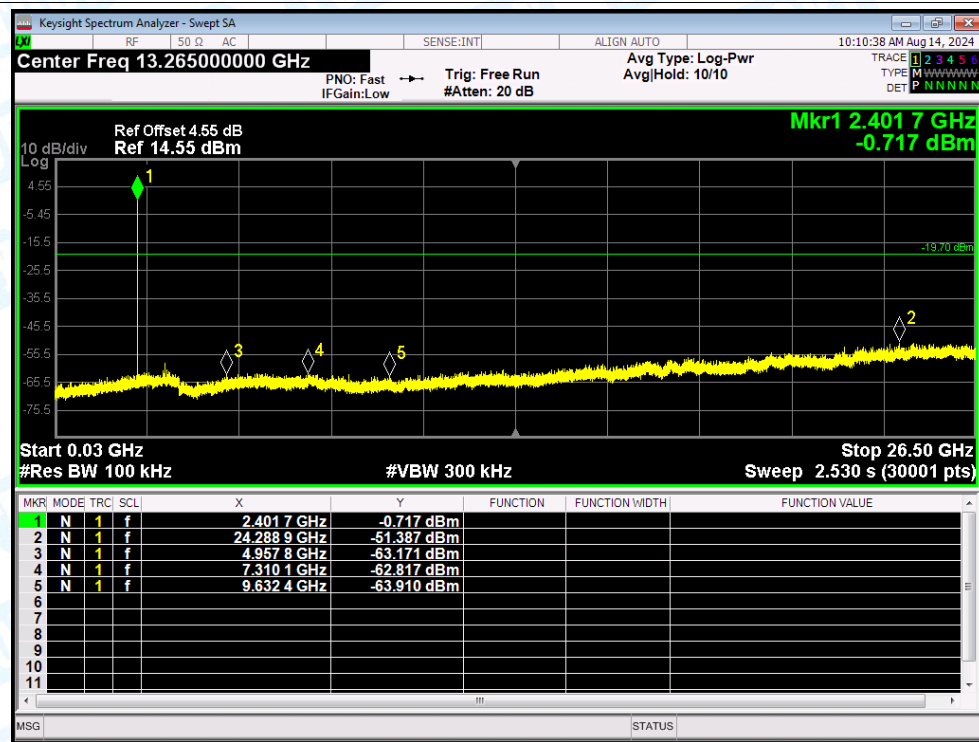
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



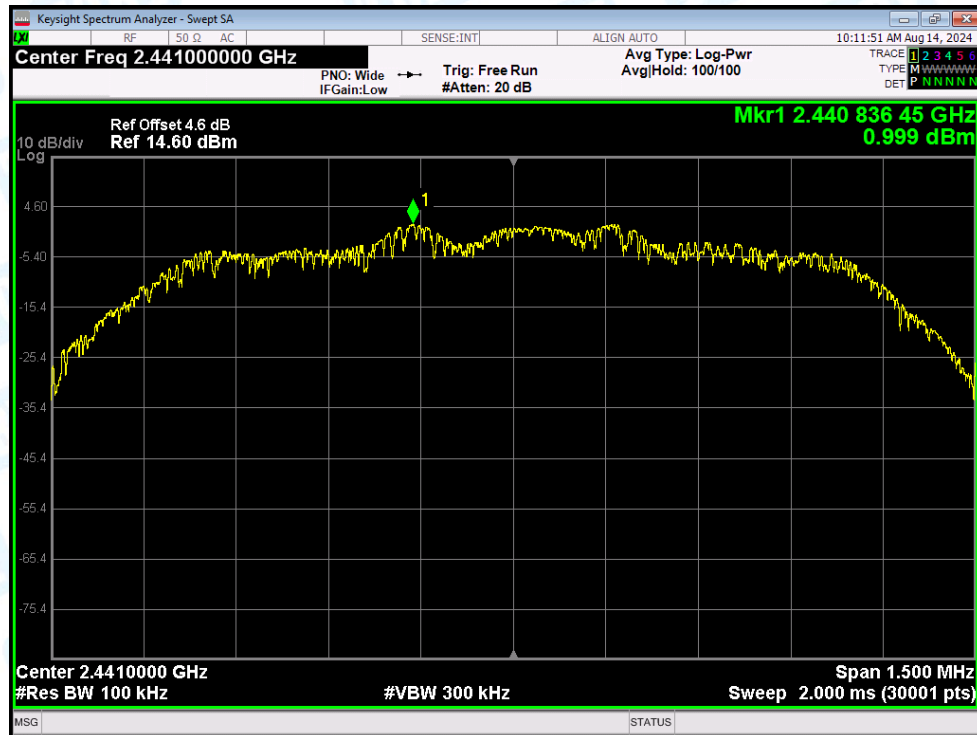
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



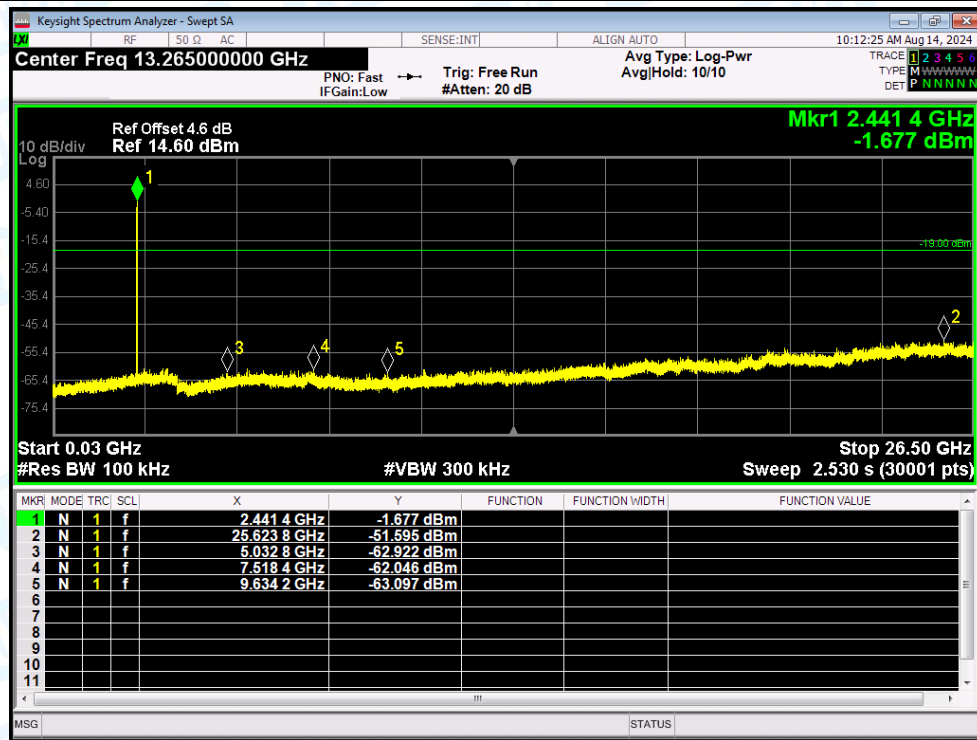
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



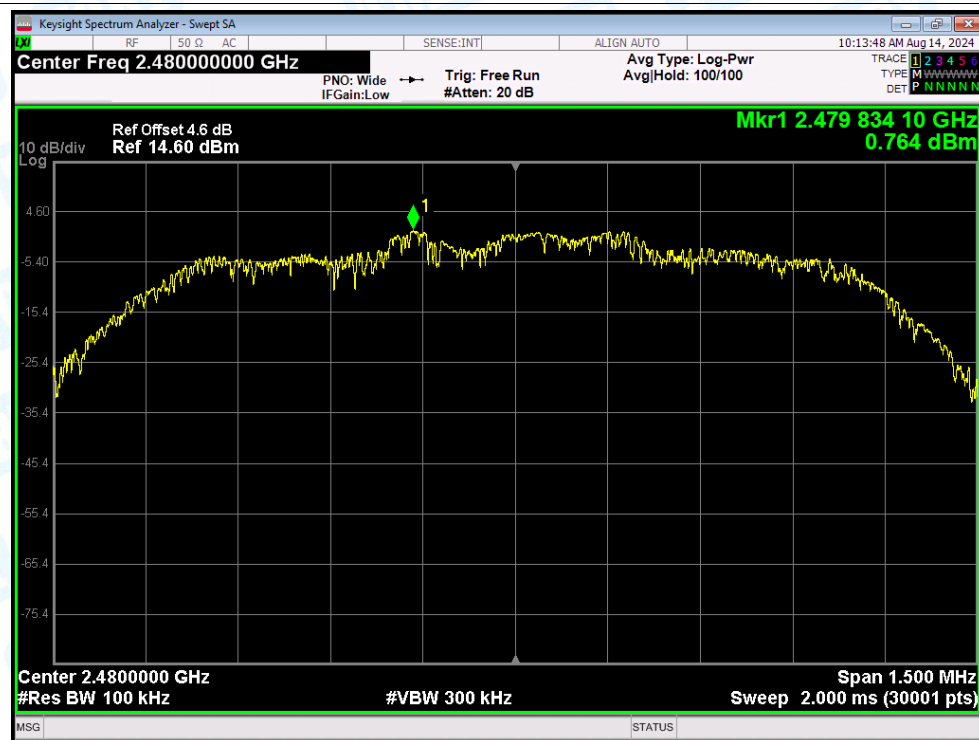
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



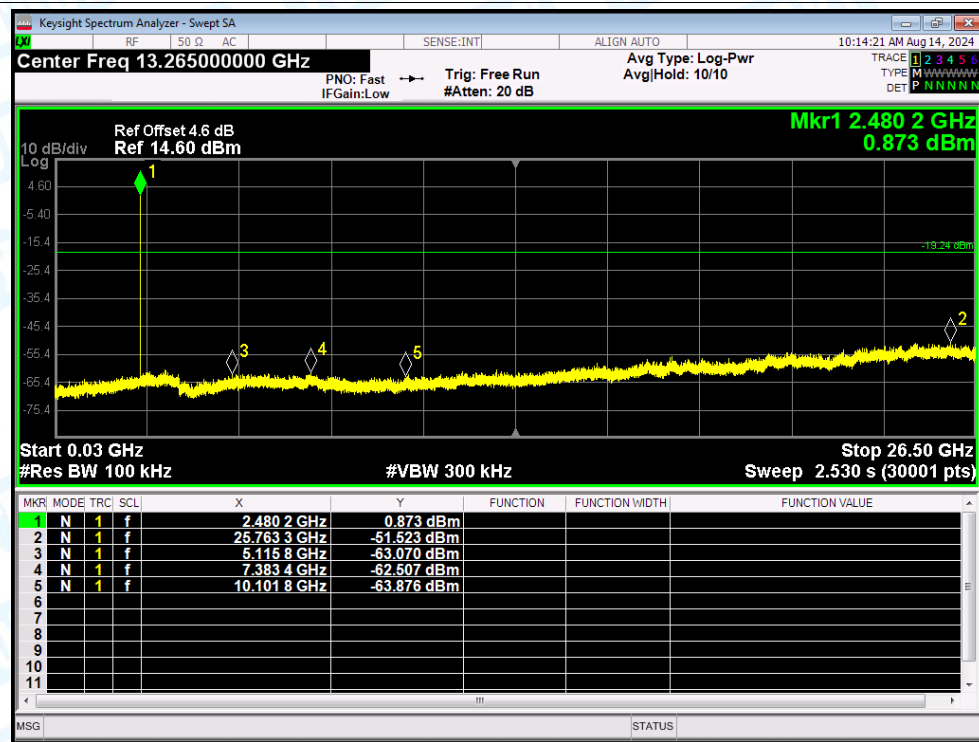
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



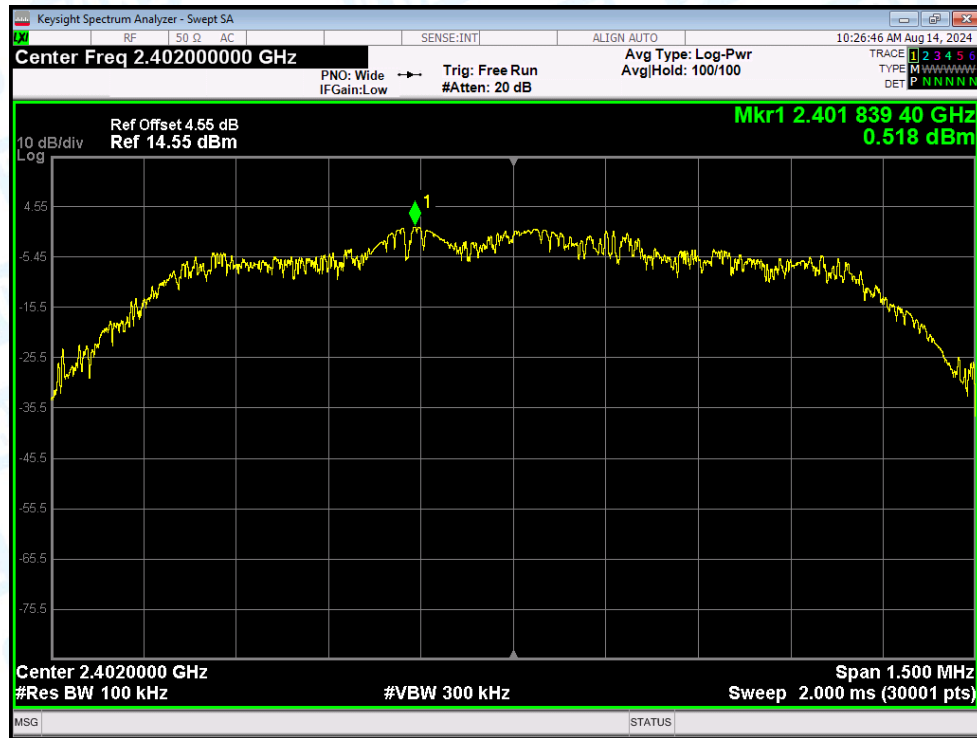
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



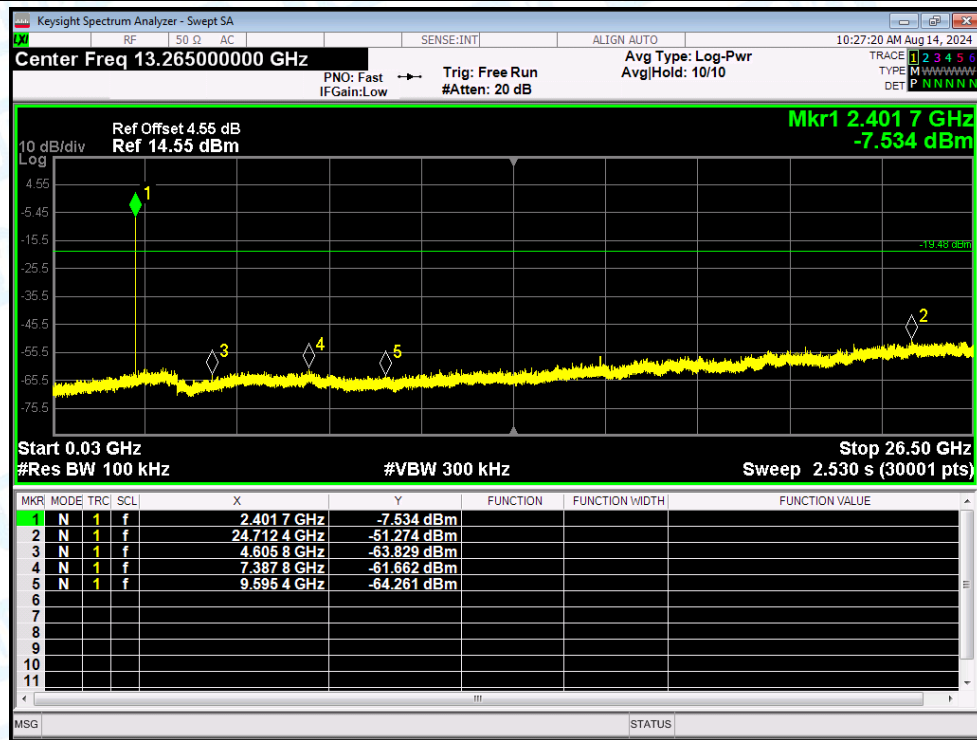
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



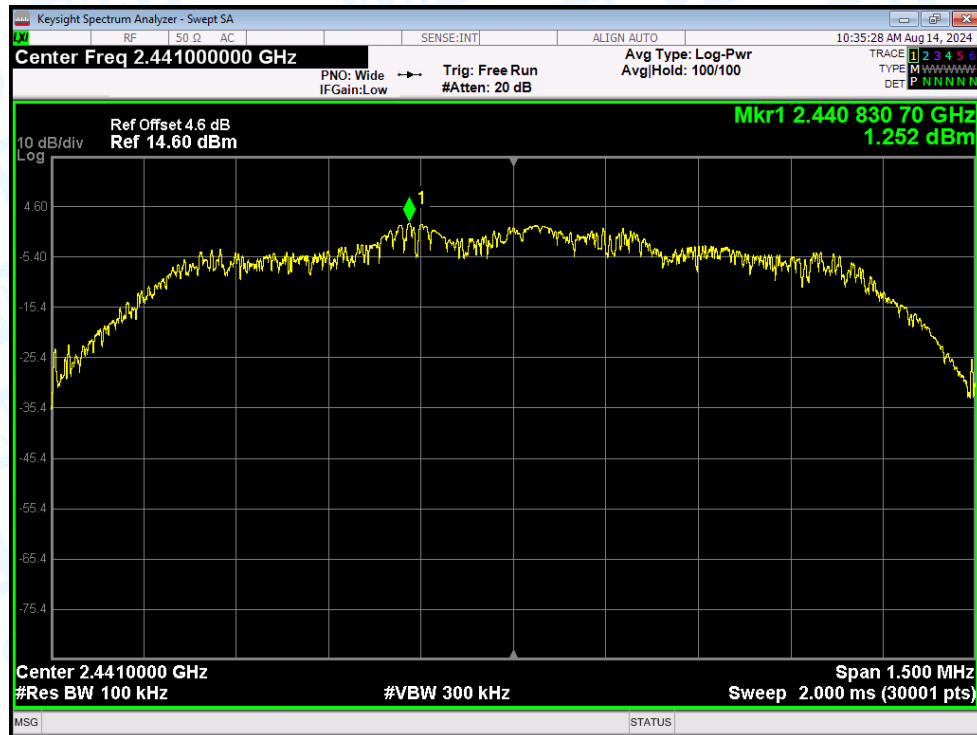
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



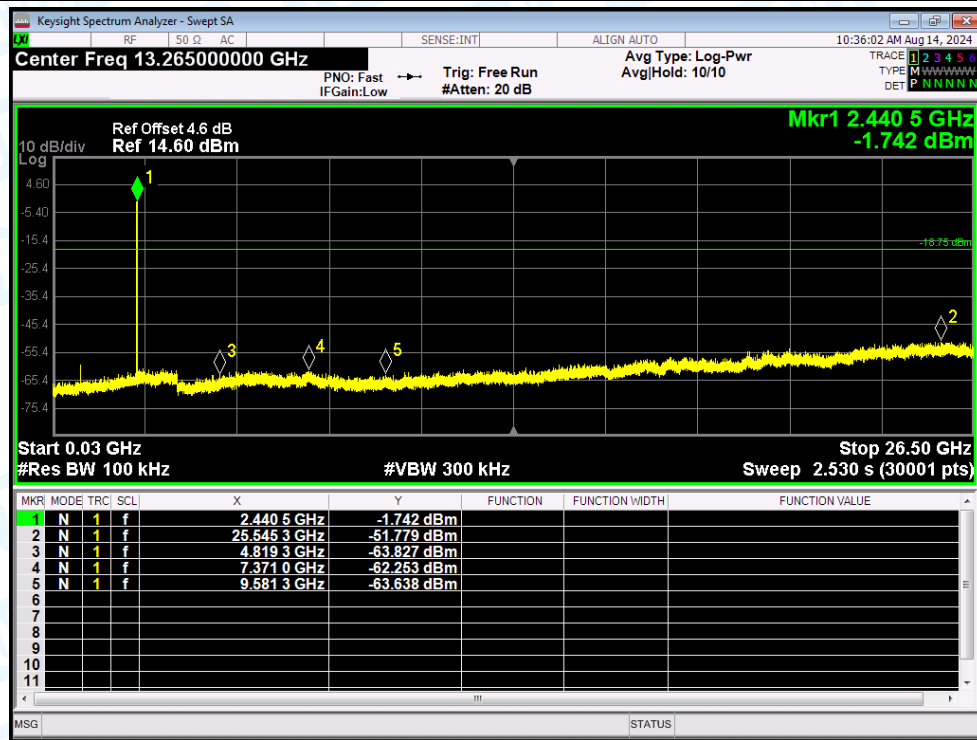
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



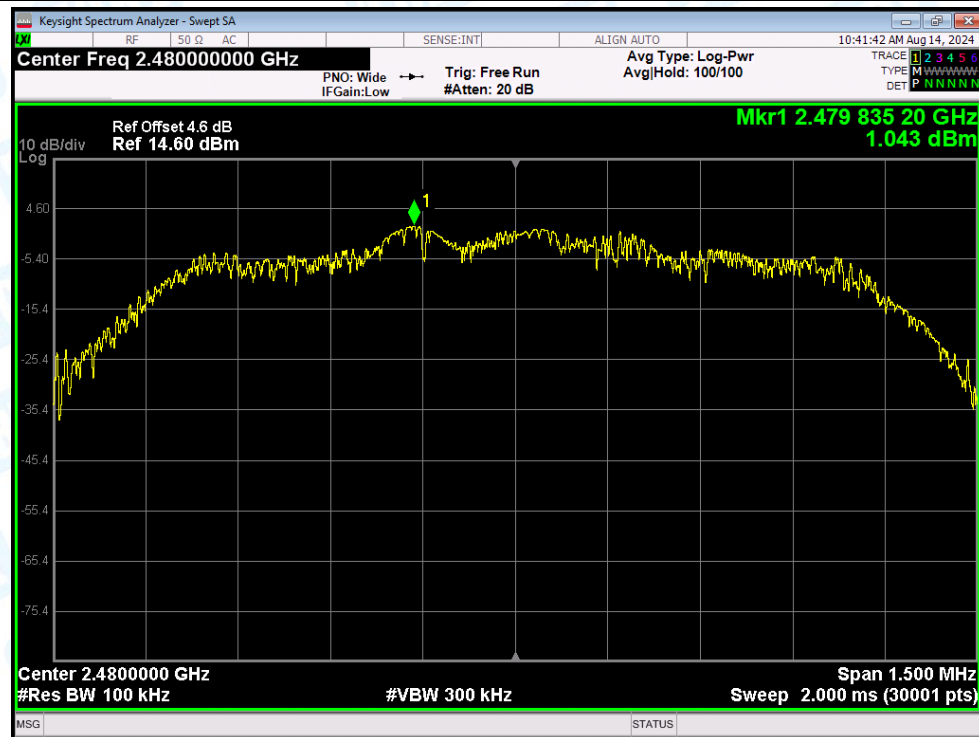
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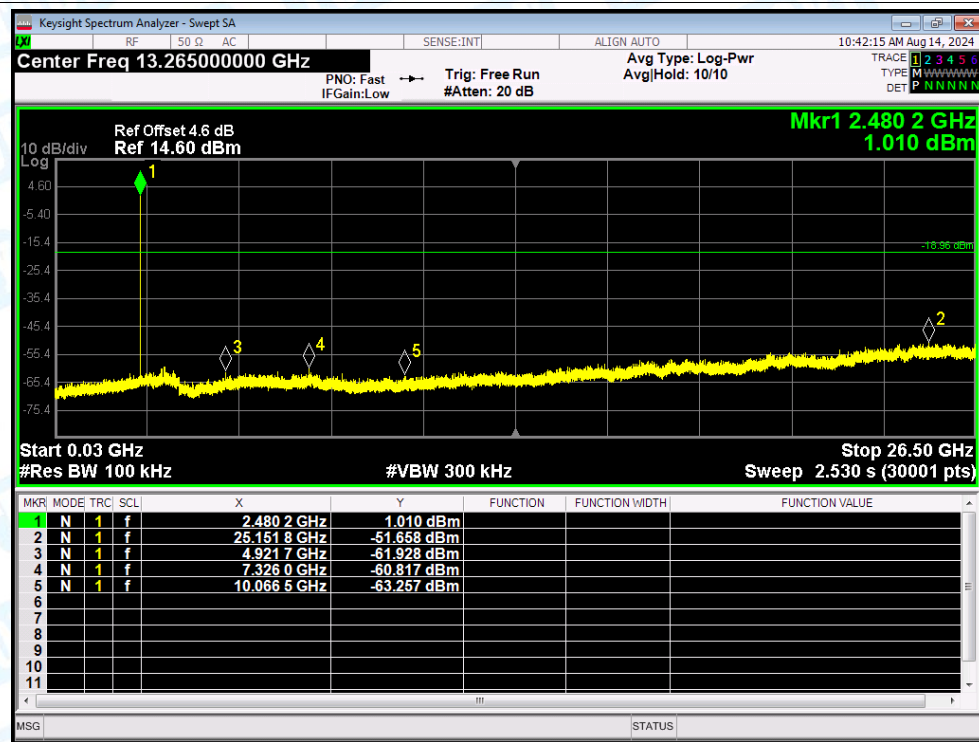
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

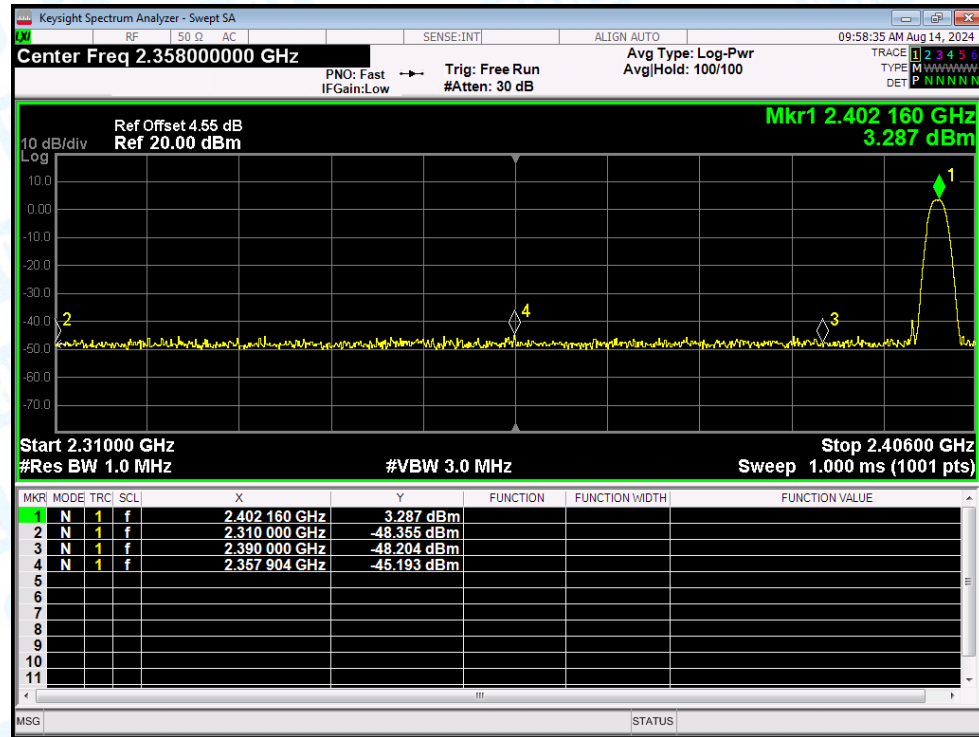


8. Restrict Band

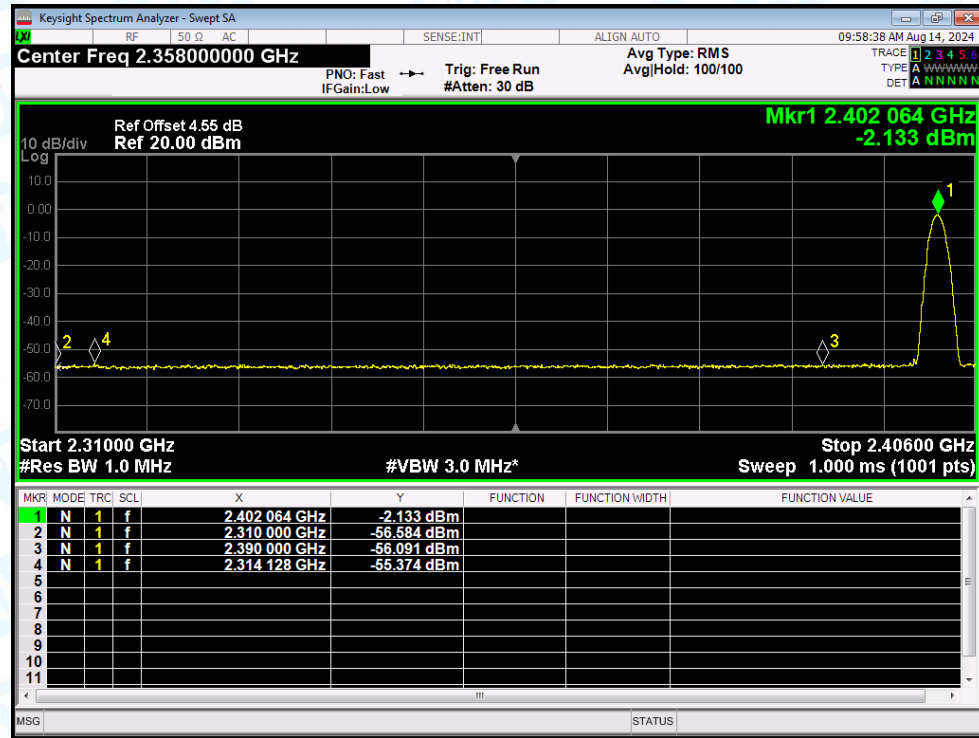
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-48.36	2	-	48.9	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-56.58	2	5.06	45.74	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2357.904	-45.19	2	-	52.07	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2314.128	-55.37	2	5.06	46.95	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-48.2	2	-	49.06	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-56.09	2	5.06	46.23	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-48.37	2	-	48.89	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.55	2	5.06	46.77	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2490.856	-44.21	2	-	53.05	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2494.216	-54.63	2	5.06	47.69	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-48.95	2	-	48.31	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-55.63	2	5.06	46.69	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-48.07	2	-	49.19	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.28	2	5.06	46.04	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2343.696	-44.94	2	-	52.32	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2367.696	-55.31	2	5.06	47.01	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-45.59	2	-	51.67	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-55.47	2	5.06	46.85	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.07	2	-	50.19	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-55.71	2	5.06	46.61	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.056	-44.06	2	-	53.2	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2498.68	-54.68	2	5.06	47.64	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.33	2	-	49.93	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-55.22	2	5.06	47.1	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-48.71	2	-	48.55	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-55.73	2	6.06	47.59	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2385.84	-44.67	2	-	52.59	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2379.696	-55.37	2	6.06	47.95	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-47.66	2	-	49.6	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.46	2	6.06	46.86	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-46.46	2	-	50.8	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.31	2	6.2	48.15	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2498.104	-44.26	2	-	53	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2491.456	-54.74	2	6.2	48.72	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.4	2	-	50.86	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.42	2	6.2	48.04	Average	54	Pass

Test Graphs

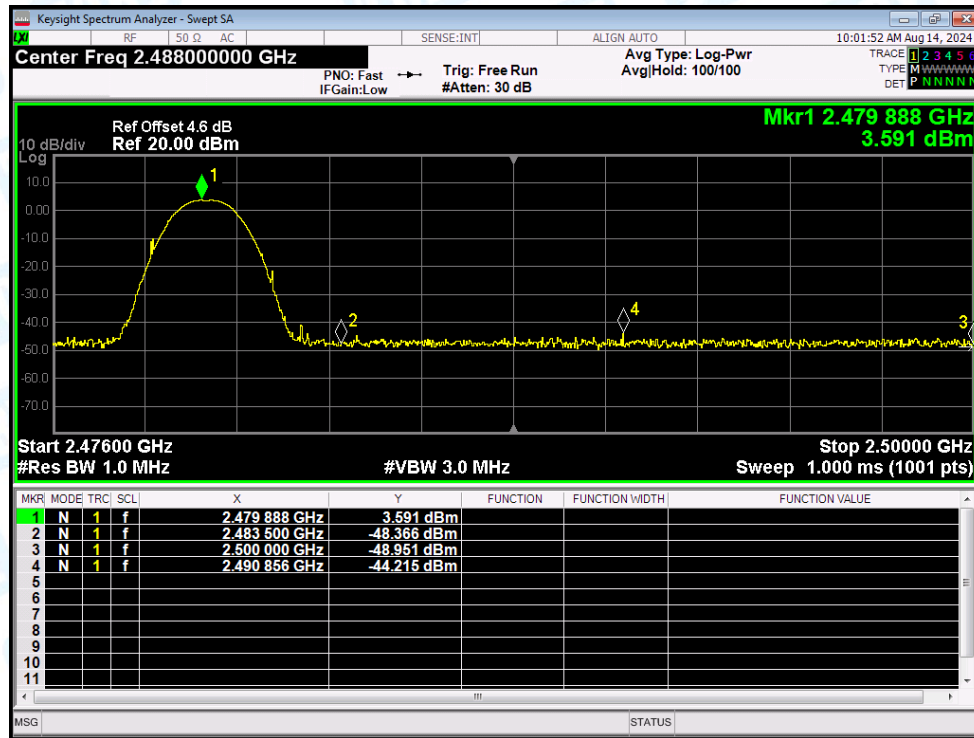
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



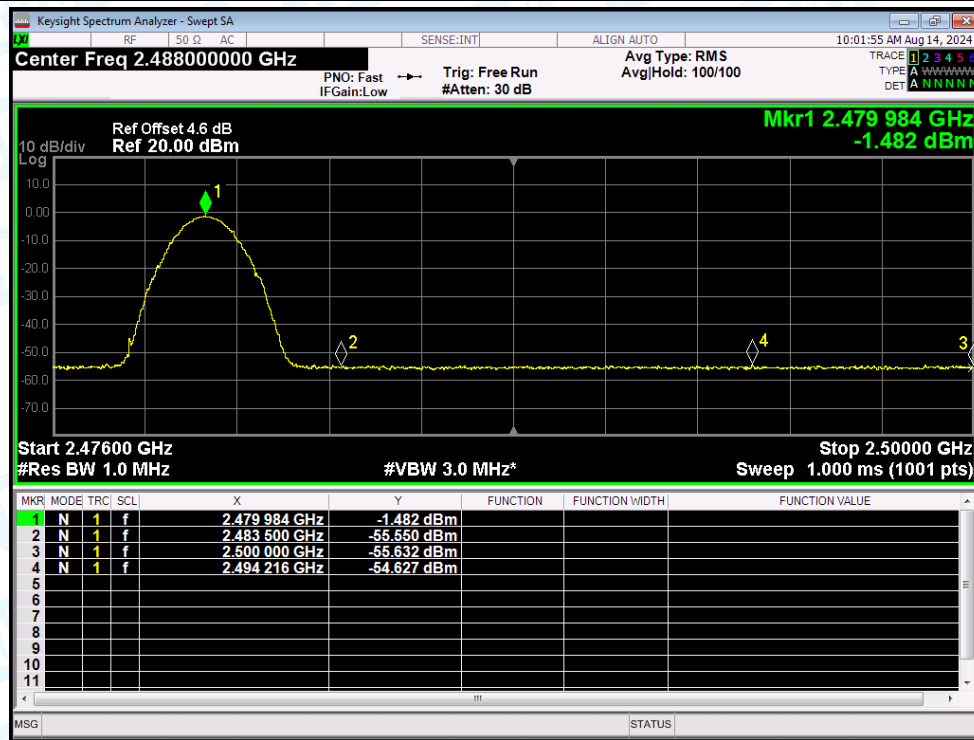
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



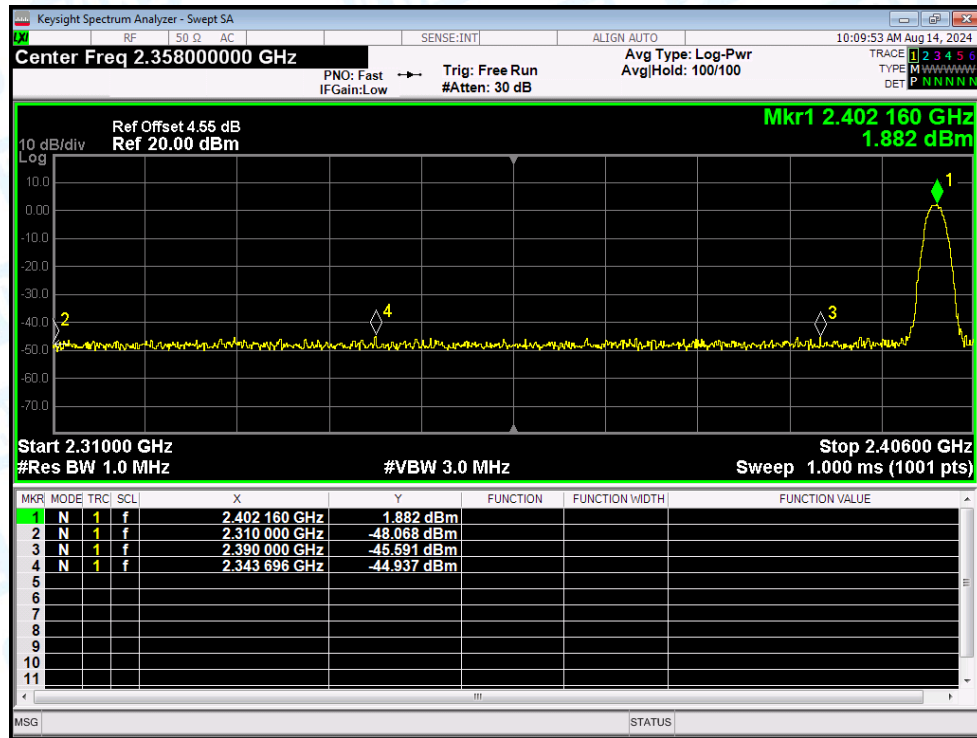
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



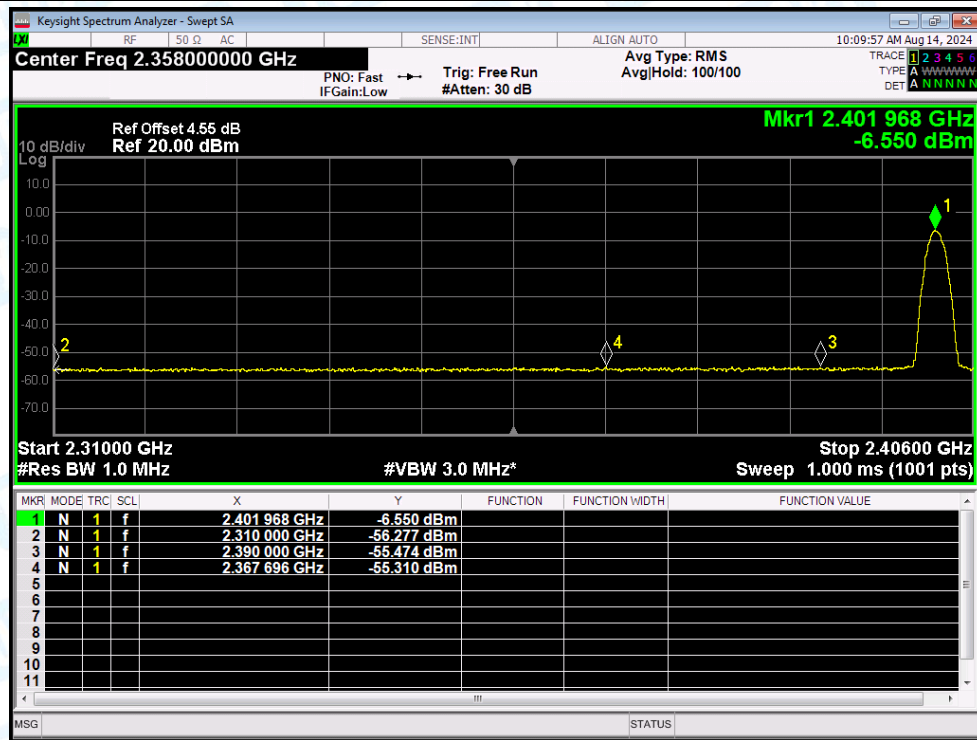
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



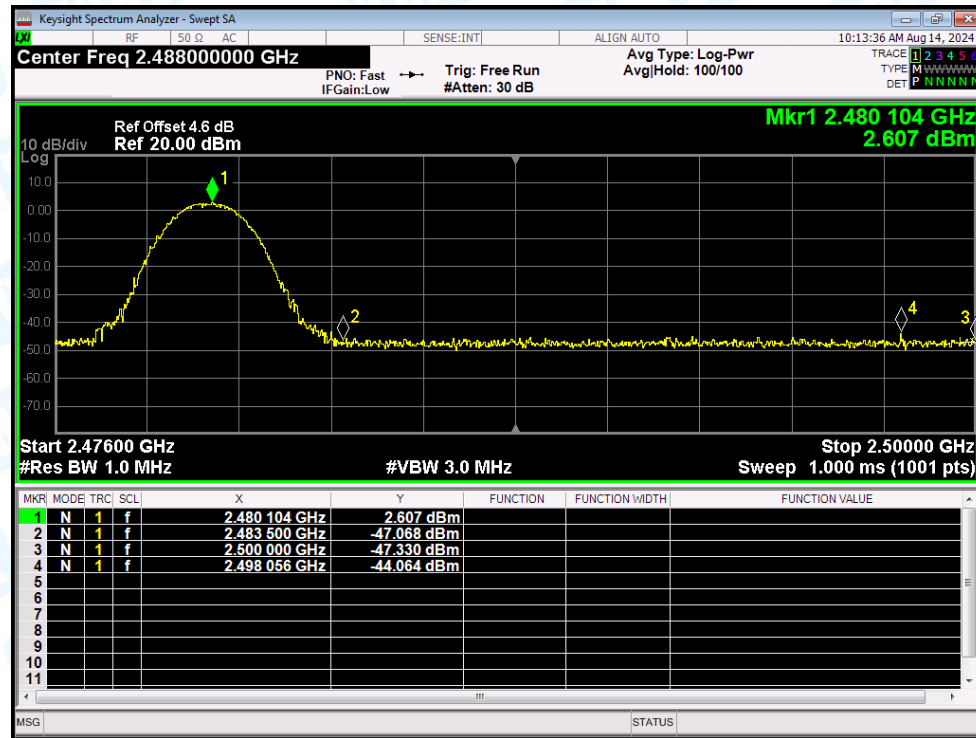
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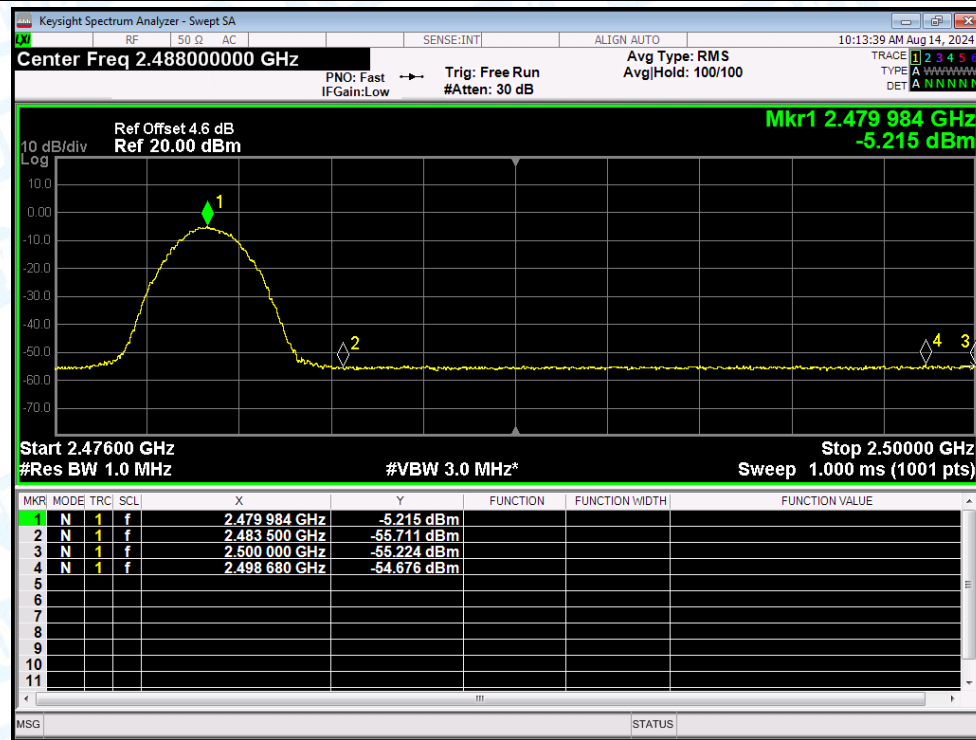
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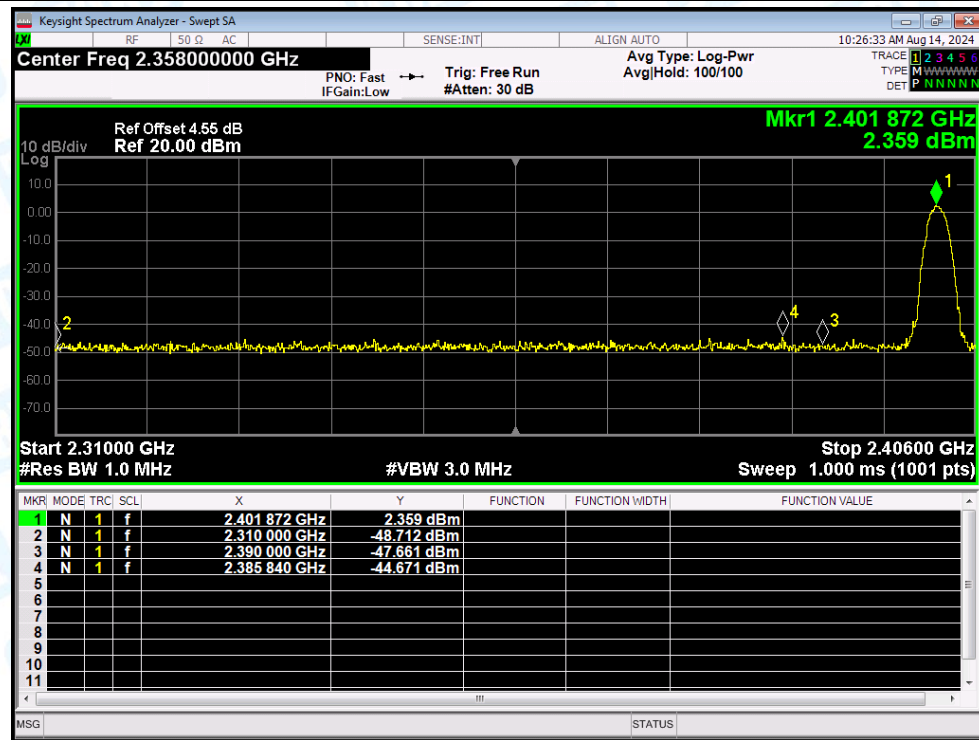
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



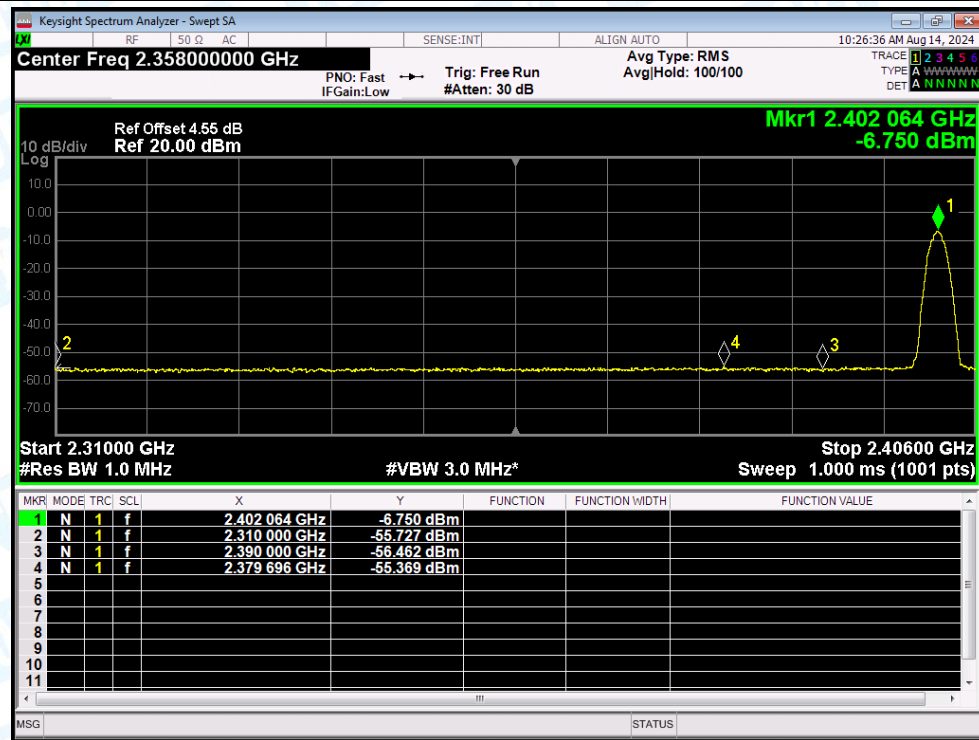
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



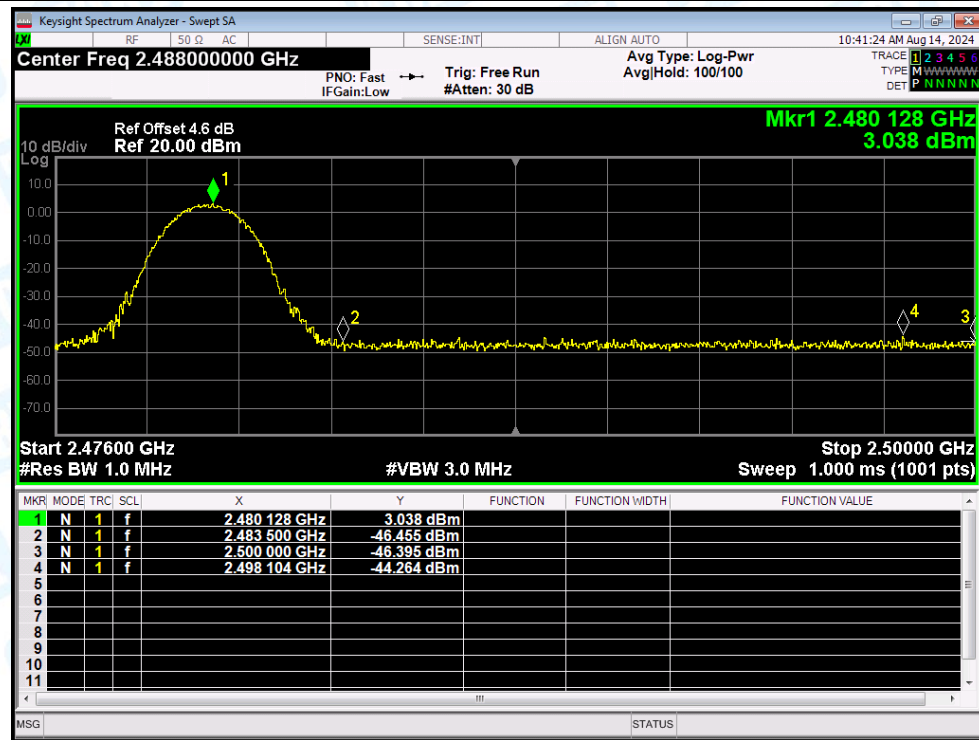
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



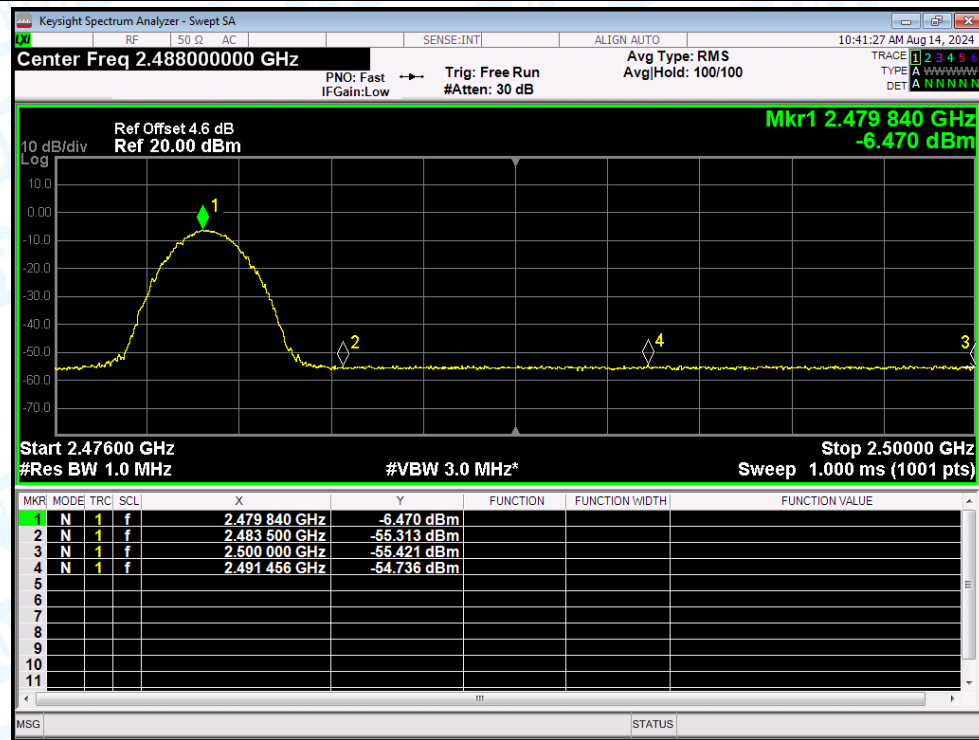
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

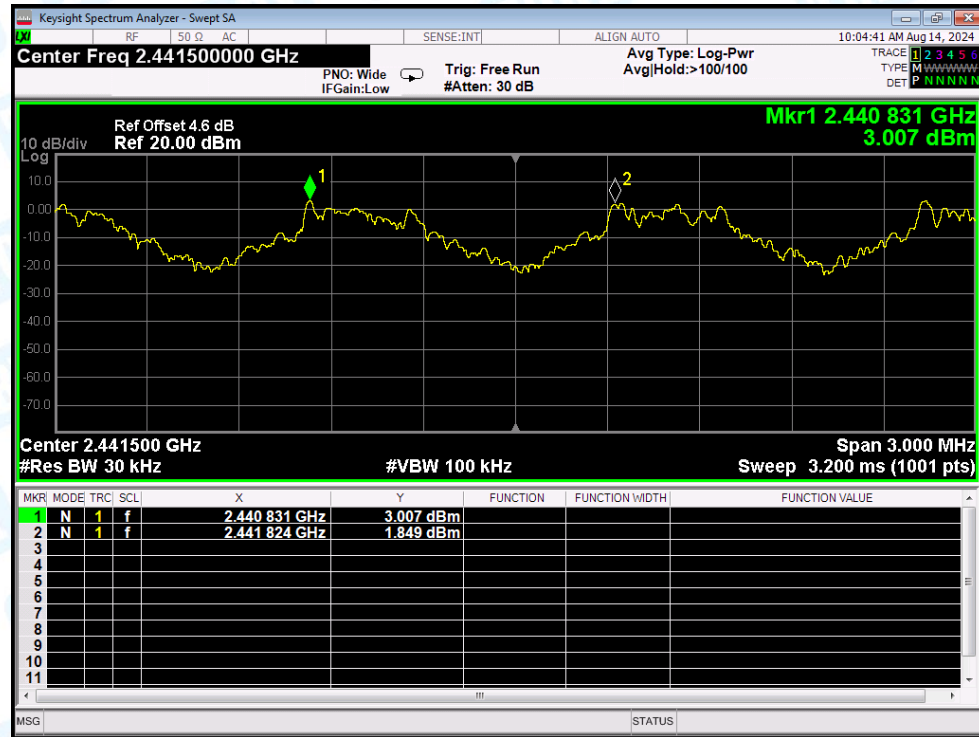


9. Carrier Frequencies Separation

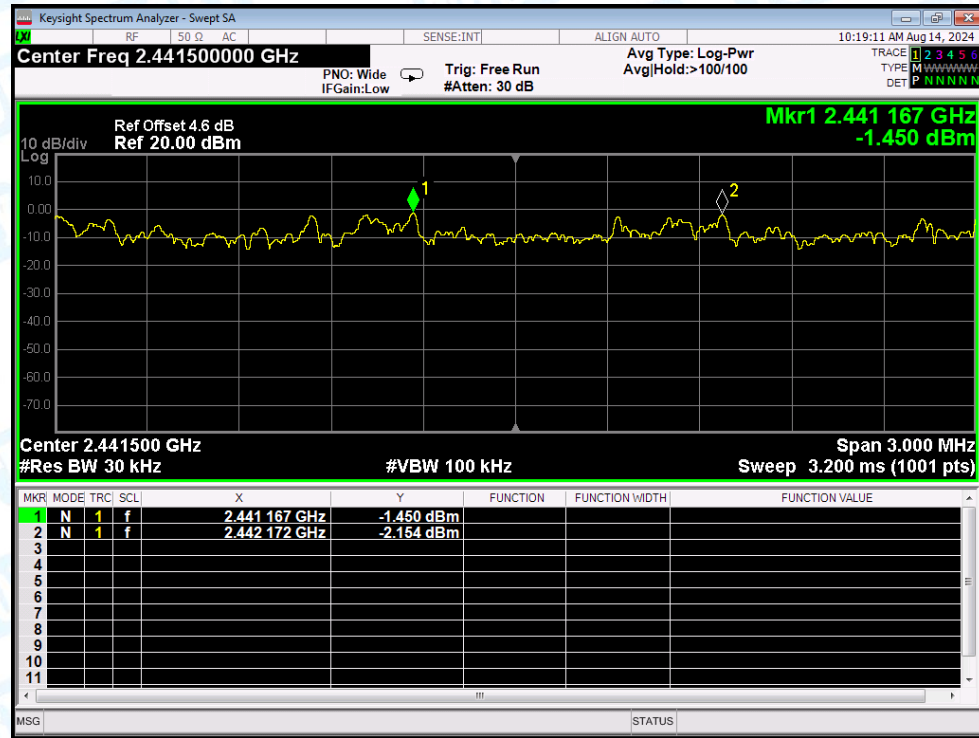
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.831	2441.824	0.993	0.54	Pass
NVNT	2-DH1	Ant1	2441.167	2442.172	1.005	0.82	Pass
NVNT	3-DH1	Ant1	2441.026	2442.025	0.999	0.813	Pass

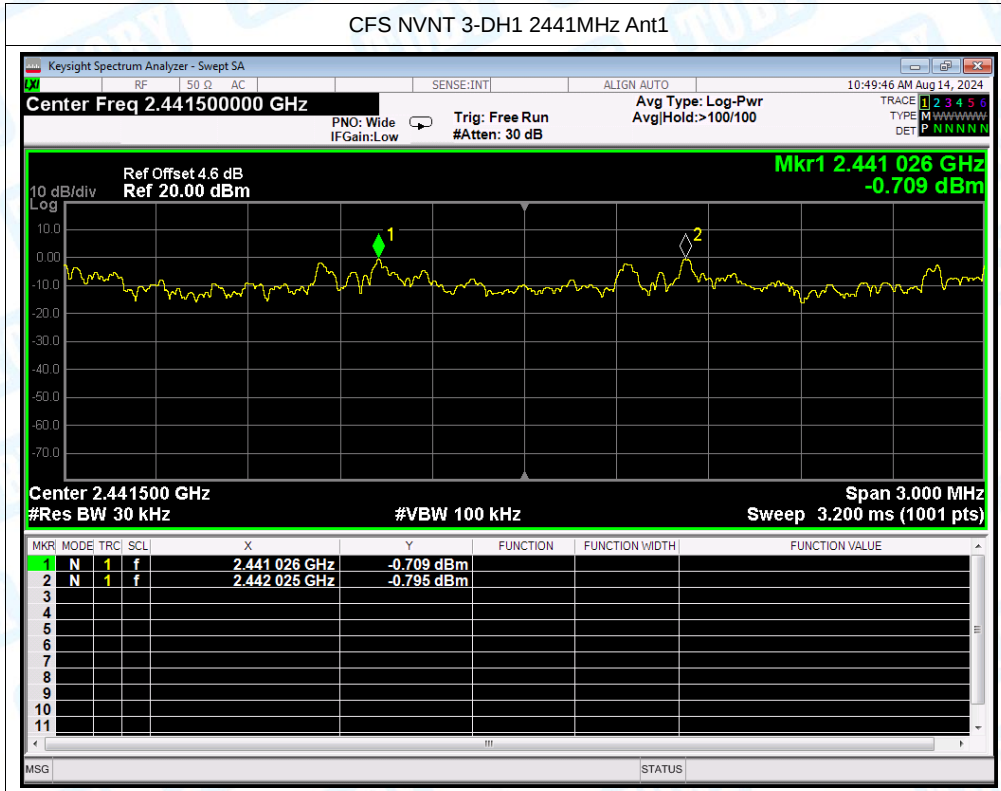
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



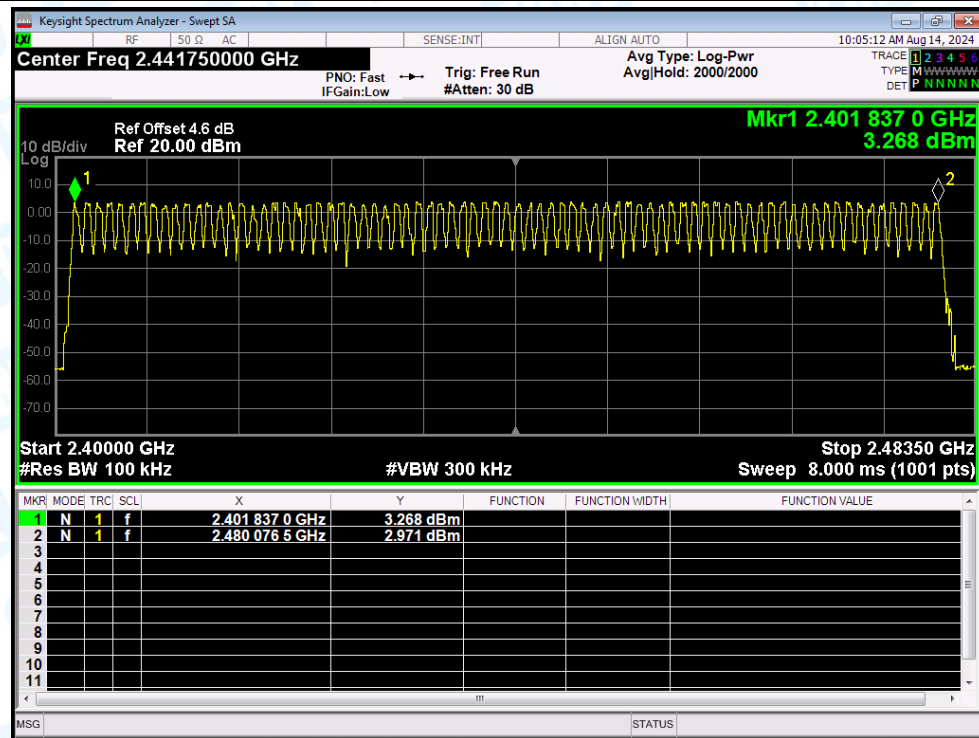


10. Number of Hopping Channel

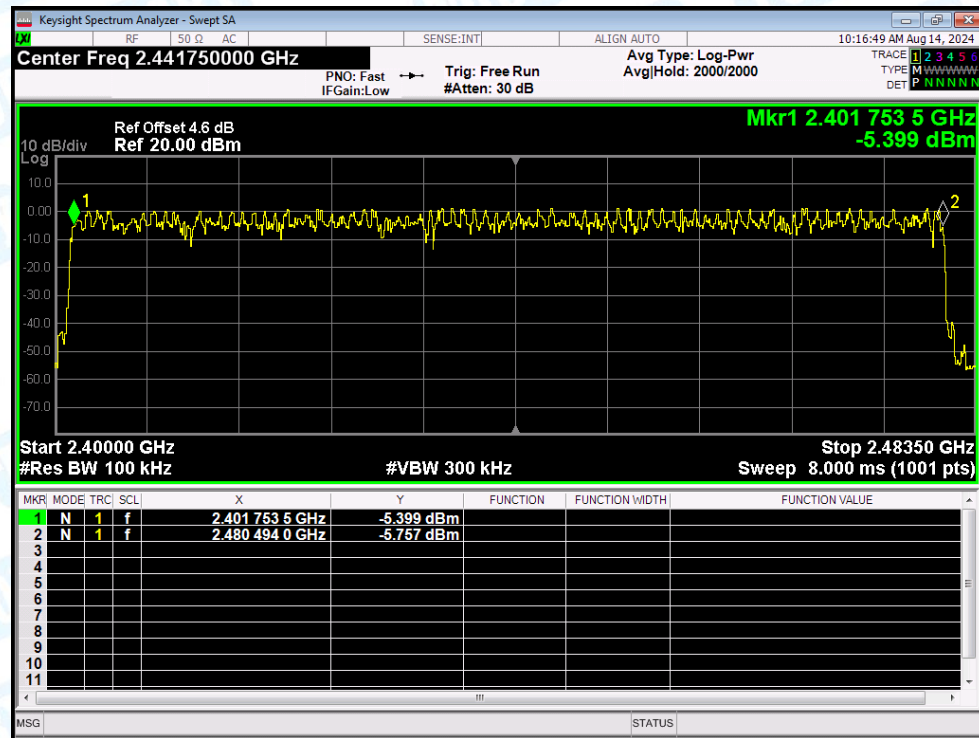
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

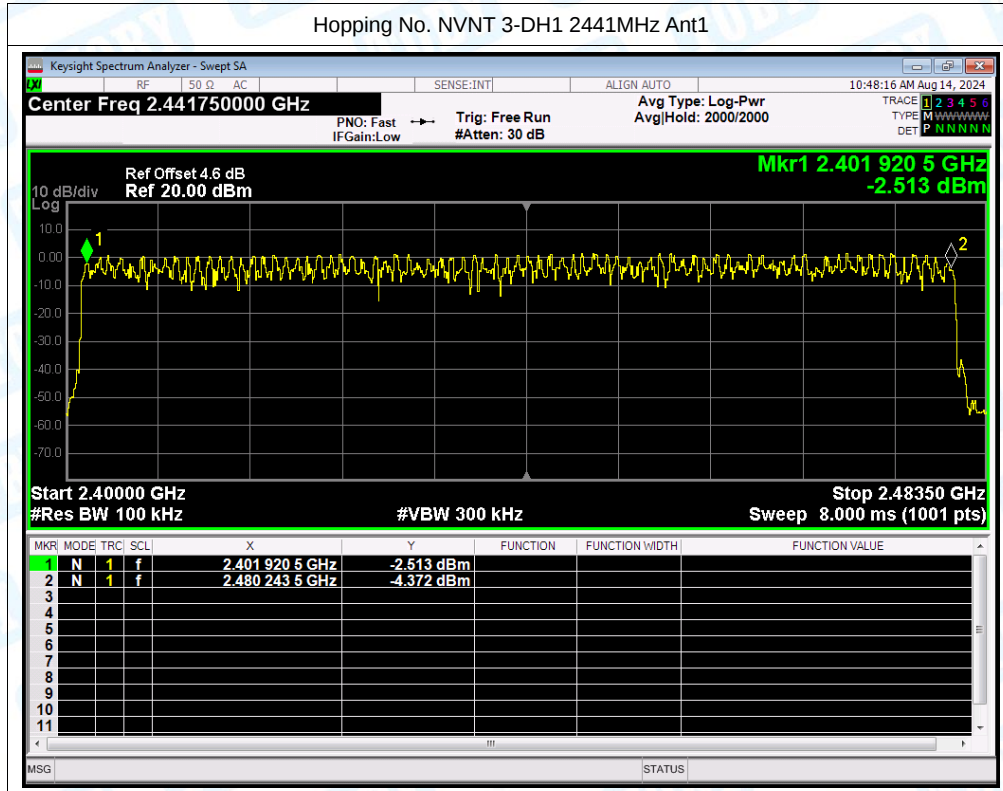
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



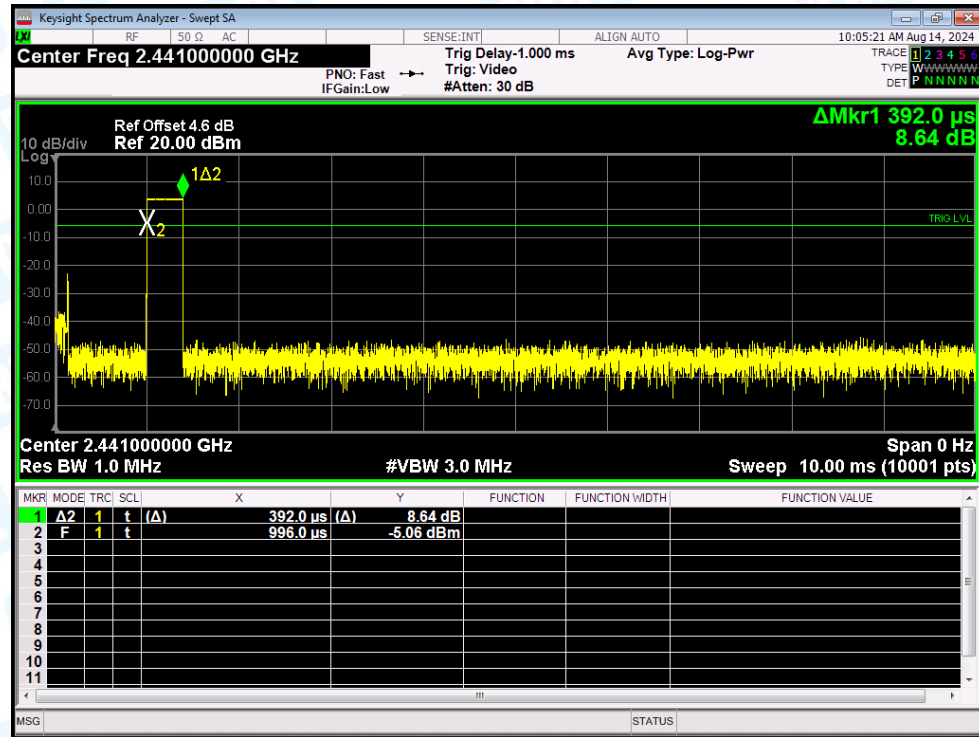


11. Dwell Time

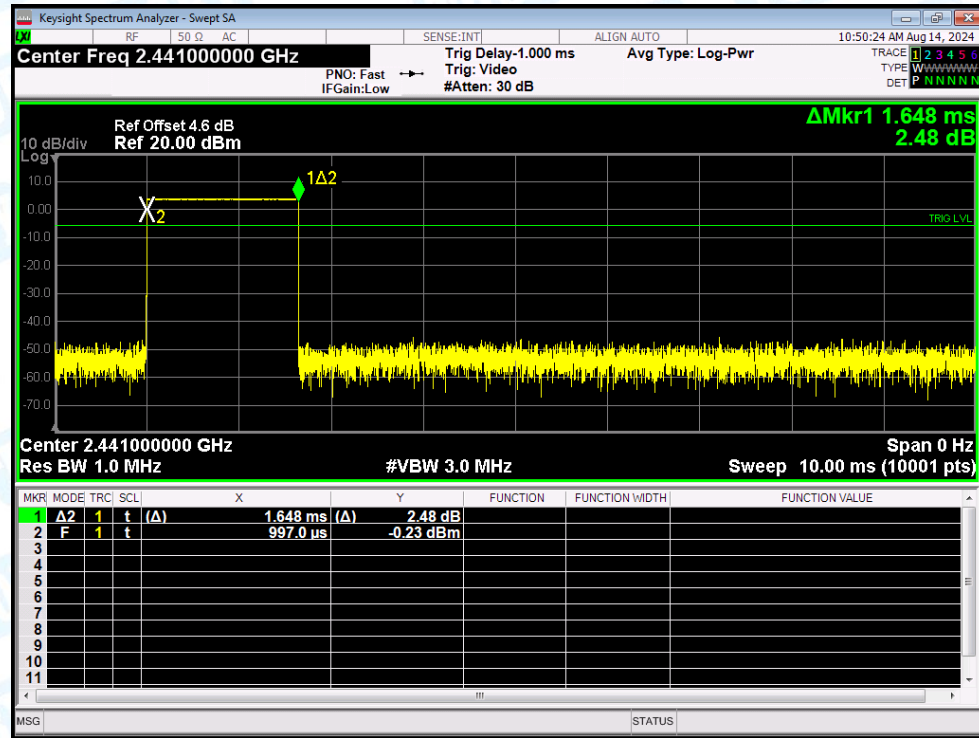
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.392	125.44	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.648	263.68	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	308.907	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.385	123.2	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.884	307.627	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.304	97.28	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.633	261.28	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	307.52	31600	400	Pass

Test Graphs

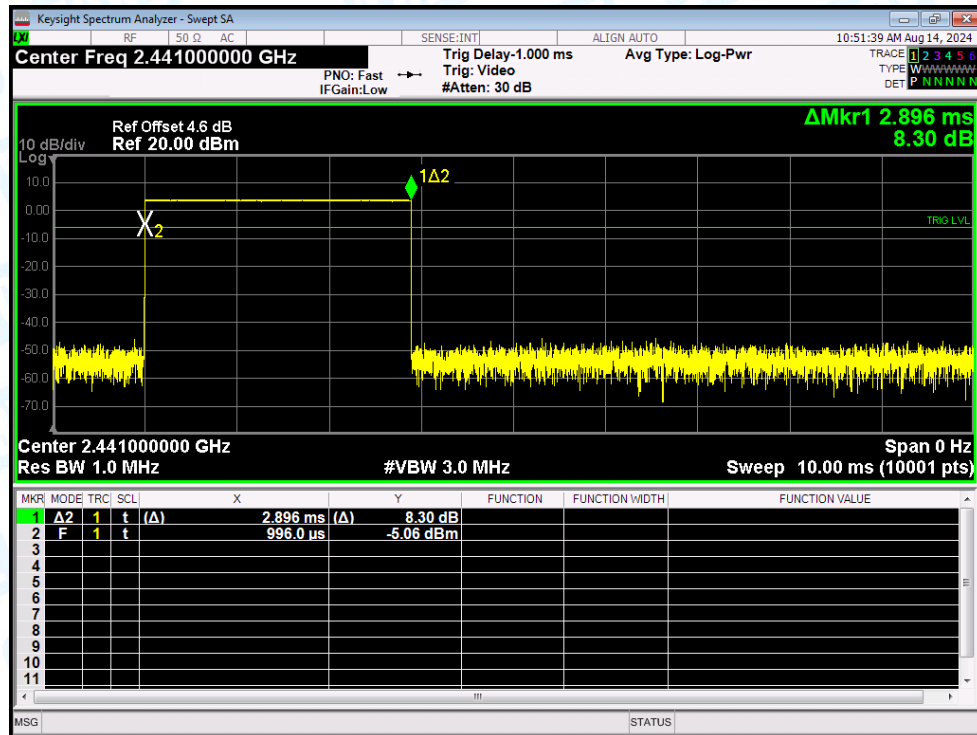
Dwell NVNT 1-DH1 2441MHz Ant1



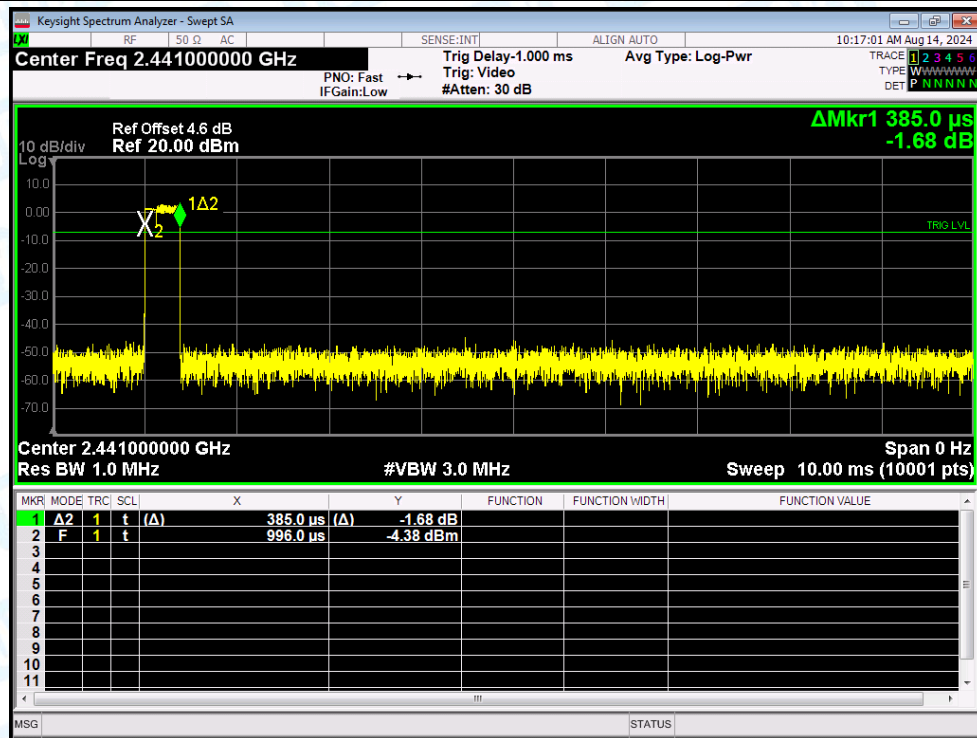
Dwell NVNT 1-DH3 2441MHz Ant1



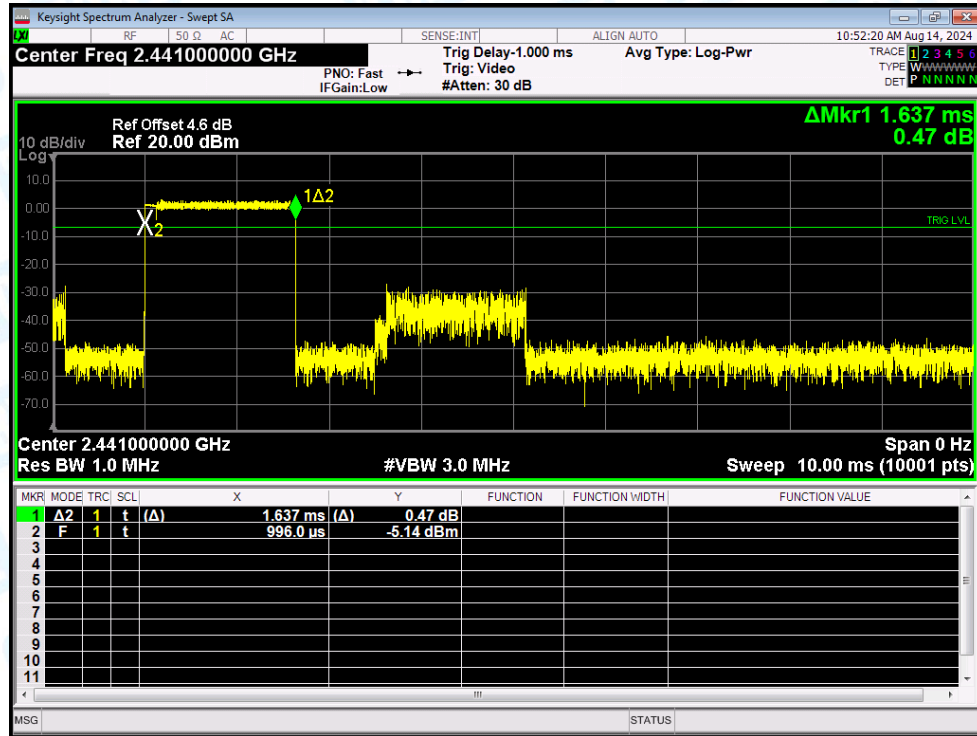
Dwell NVNT 1-DH5 2441MHz Ant1



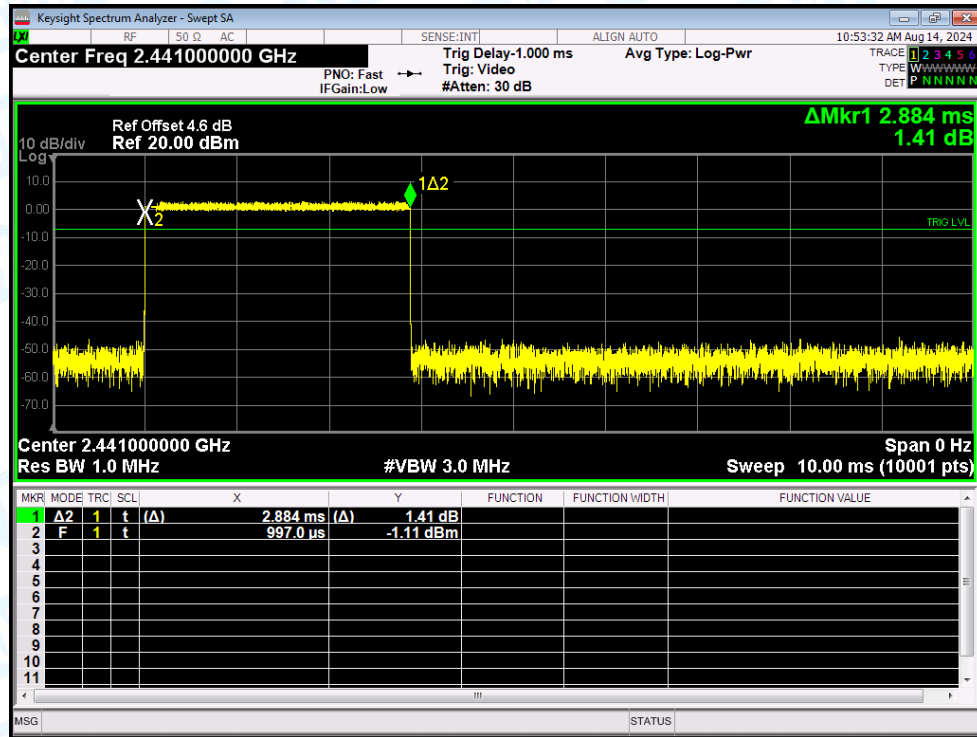
Dwell NVNT 2-DH1 2441MHz Ant1



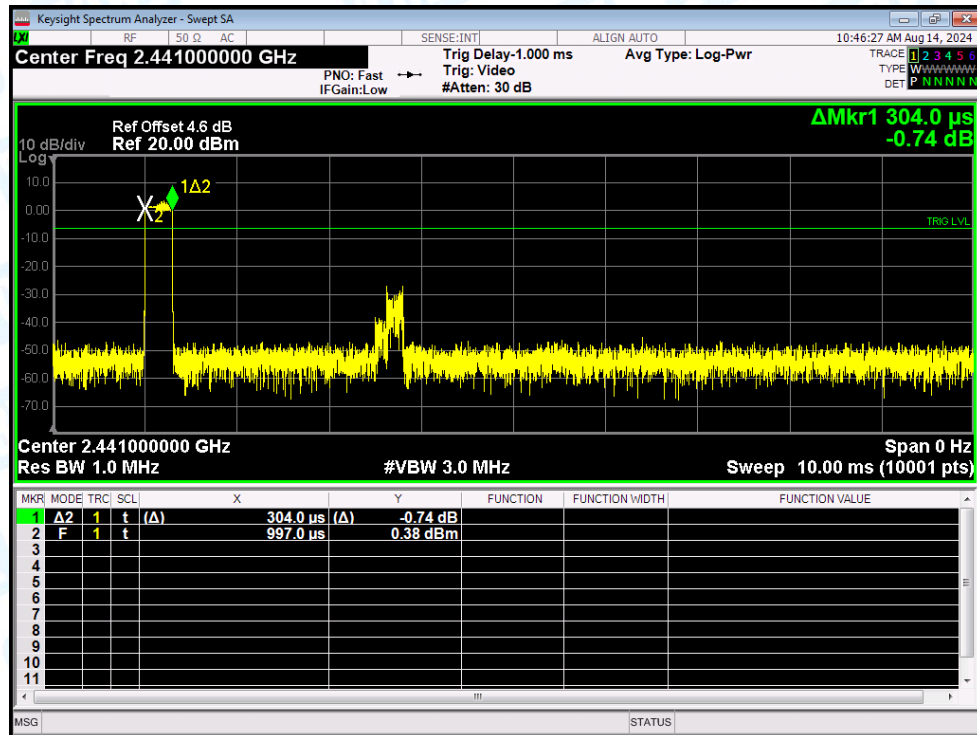
Dwell NVNT 2-DH3 2441MHz Ant1



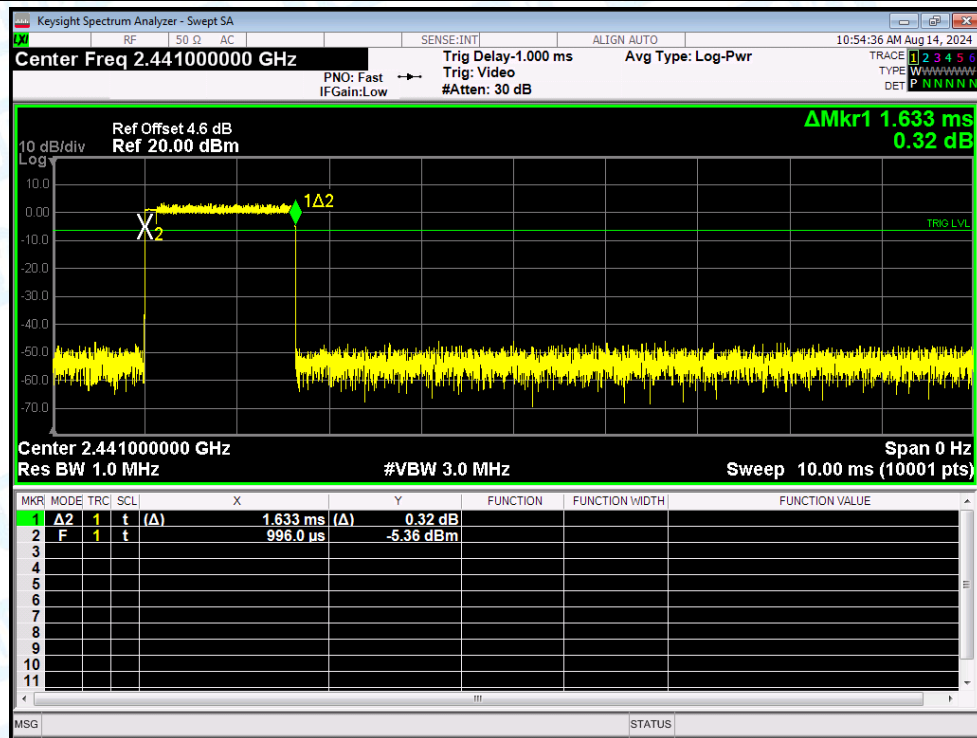
Dwell NVNT 2-DH5 2441MHz Ant1

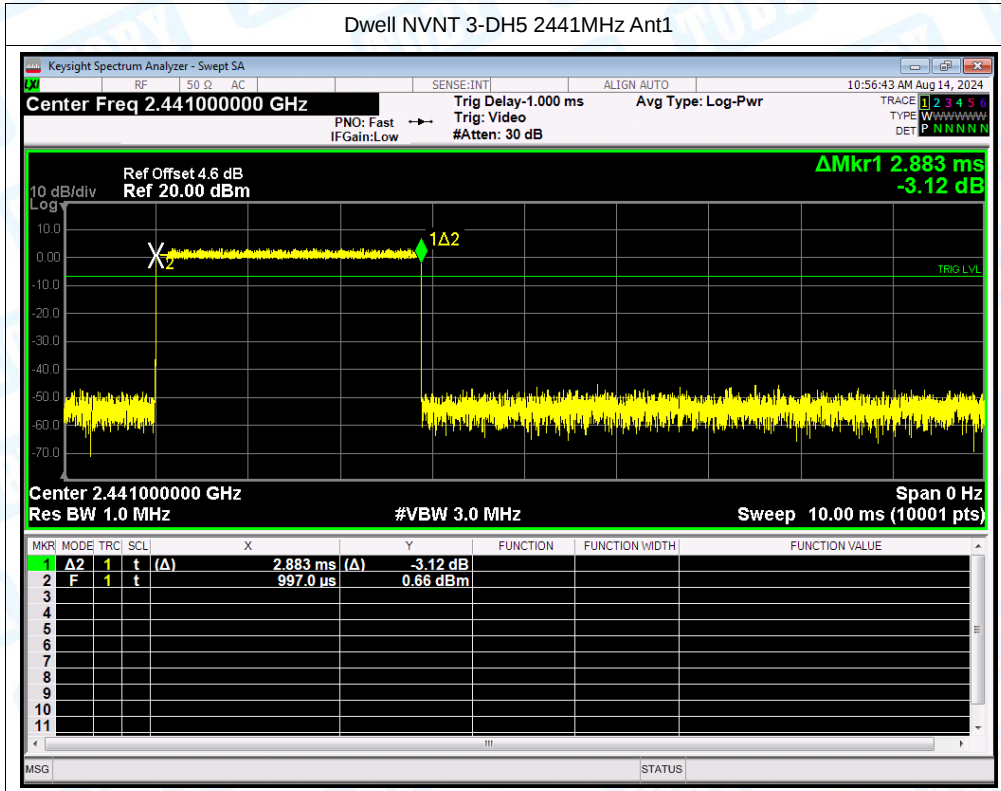


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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