

RF Test Data for Bluetooth (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	IRA T1030
Sample ID:	HC-C-202406-0309-01-02
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 3.8V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202406-0309-21 The report only show the worst case data.	

Contents

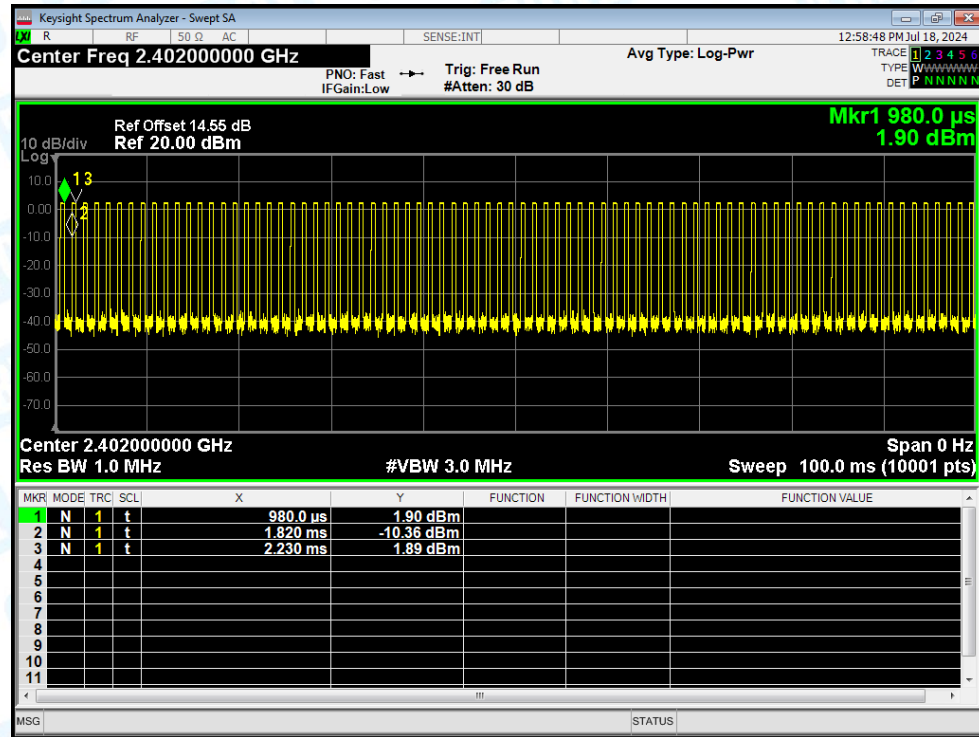
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1.Duty Cycle

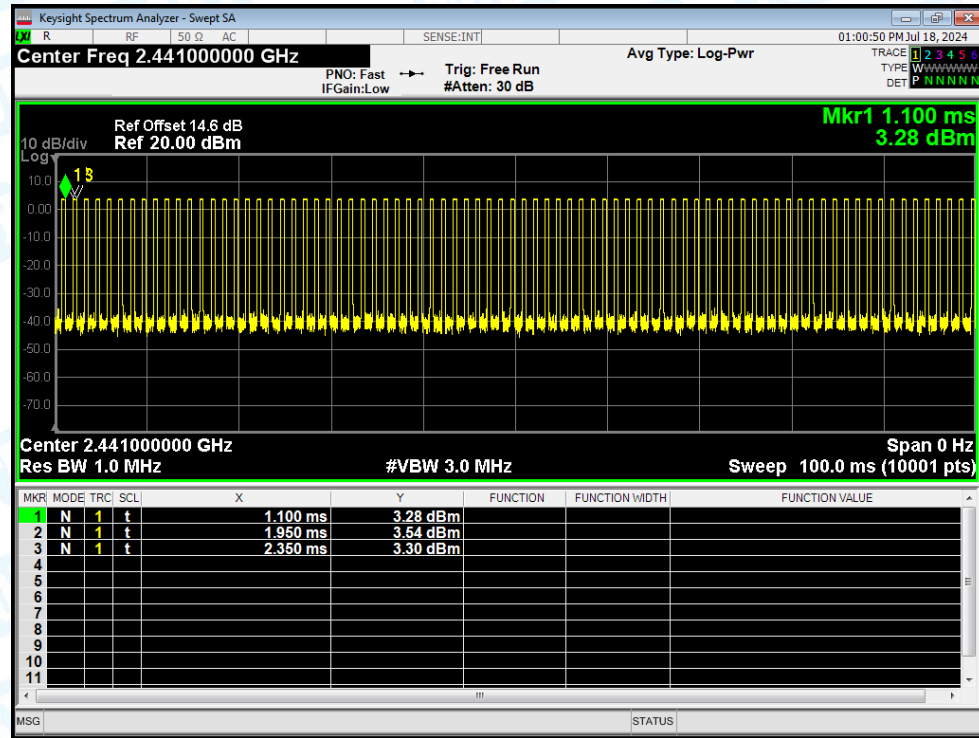
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH1	2402	Ant1	32.8	4.84	2.44
NVNT	1-DH1	2441	Ant1	32	4.95	2.5
NVNT	1-DH1	2480	Ant1	32.8	4.84	2.44
NVNT	2-DH1	2402	Ant1	32	4.95	2.5
NVNT	2-DH1	2441	Ant1	32	4.95	2.5
NVNT	2-DH1	2480	Ant1	32	4.95	2.5
NVNT	3-DH1	2402	Ant1	32	4.95	2.5
NVNT	3-DH1	2441	Ant1	31.2	5.06	2.56
NVNT	3-DH1	2480	Ant1	31.2	5.06	2.56

Test Graphs

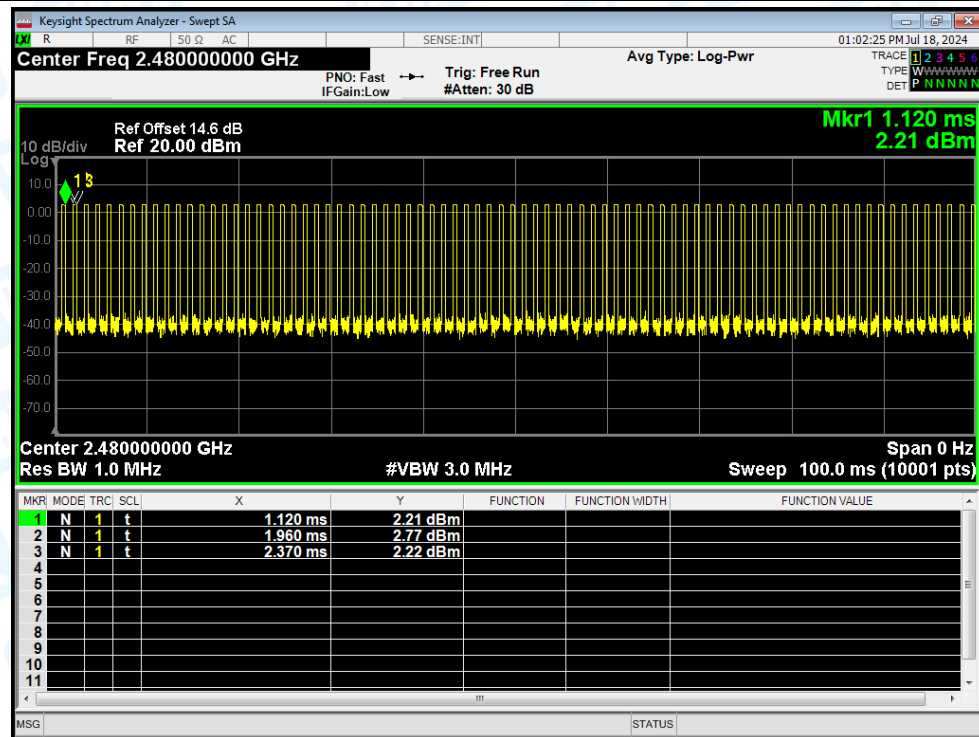
Duty Cycle NVNT 1-DH1 2402MHz Ant1



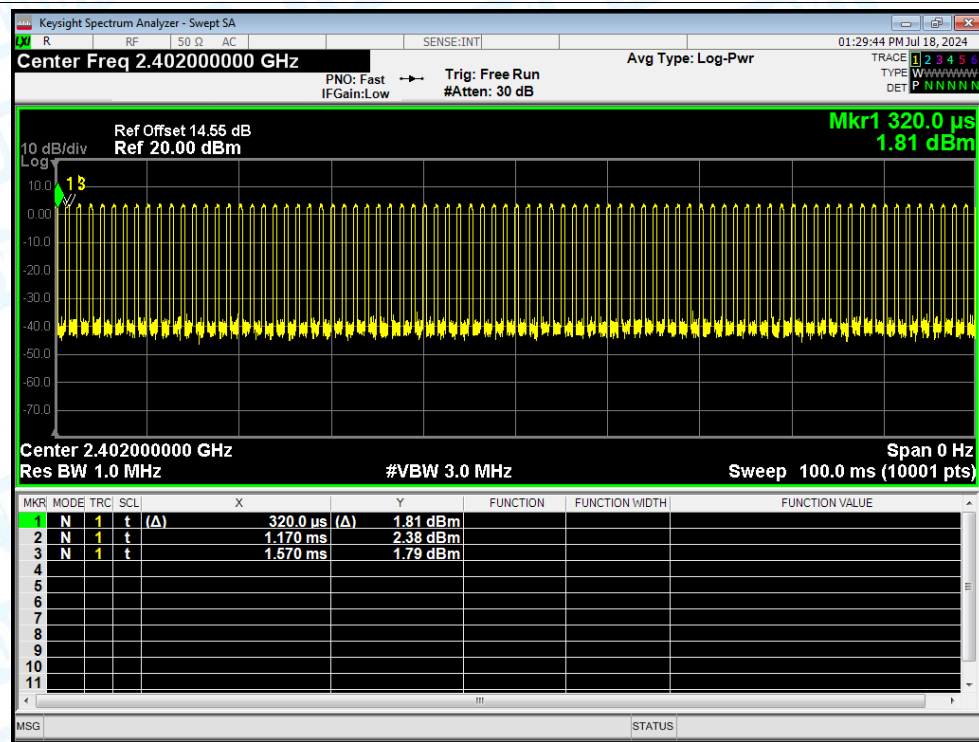
Duty Cycle NVNT 1-DH1 2441MHz Ant1



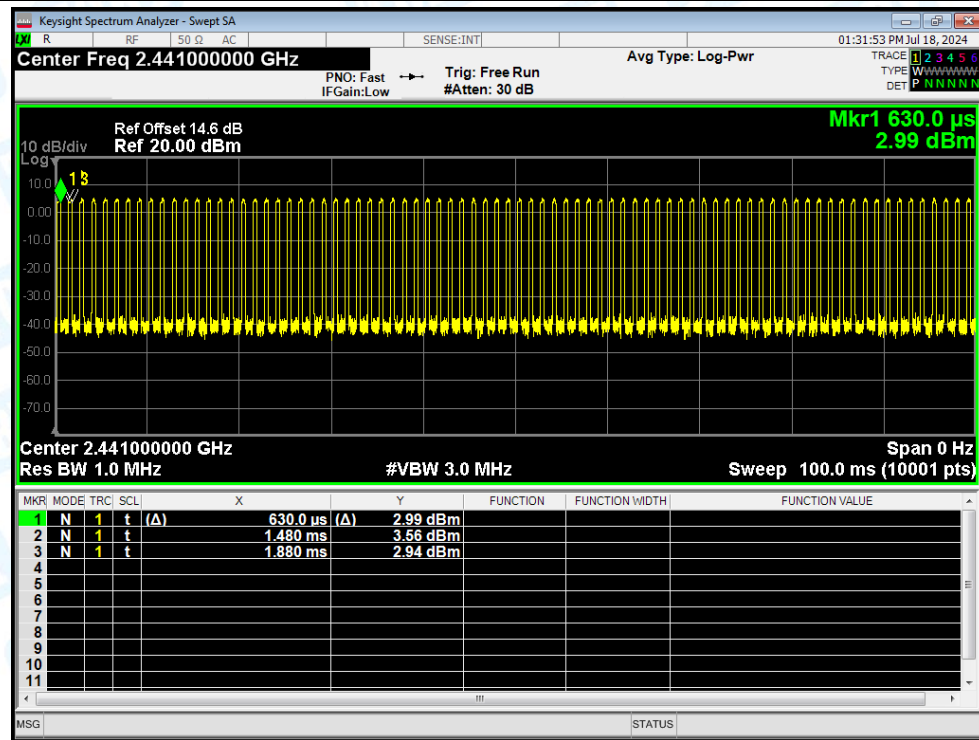
Duty Cycle NVNT 1-DH1 2480MHz Ant1



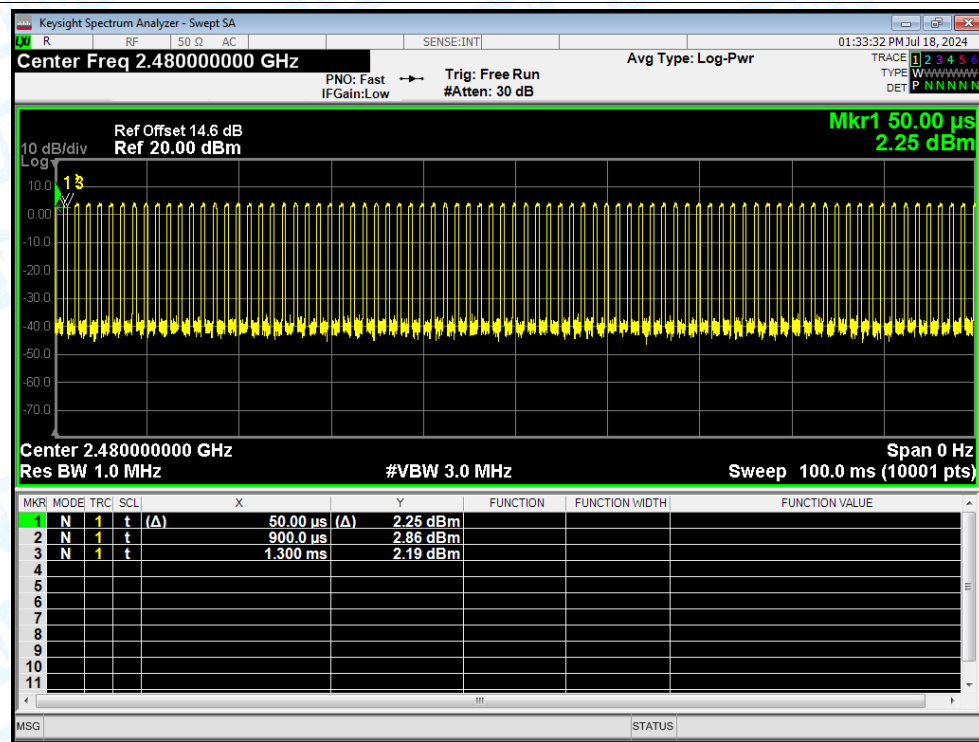
Duty Cycle NVNT 2-DH1 2402MHz Ant1



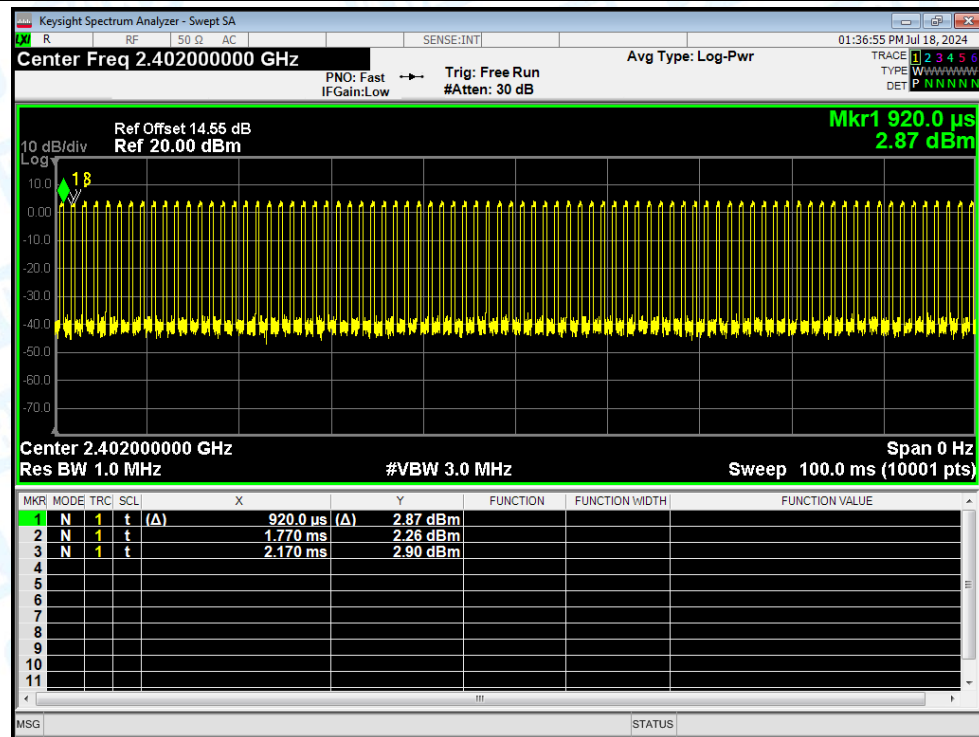
Duty Cycle NVNT 2-DH1 2441MHz Ant1



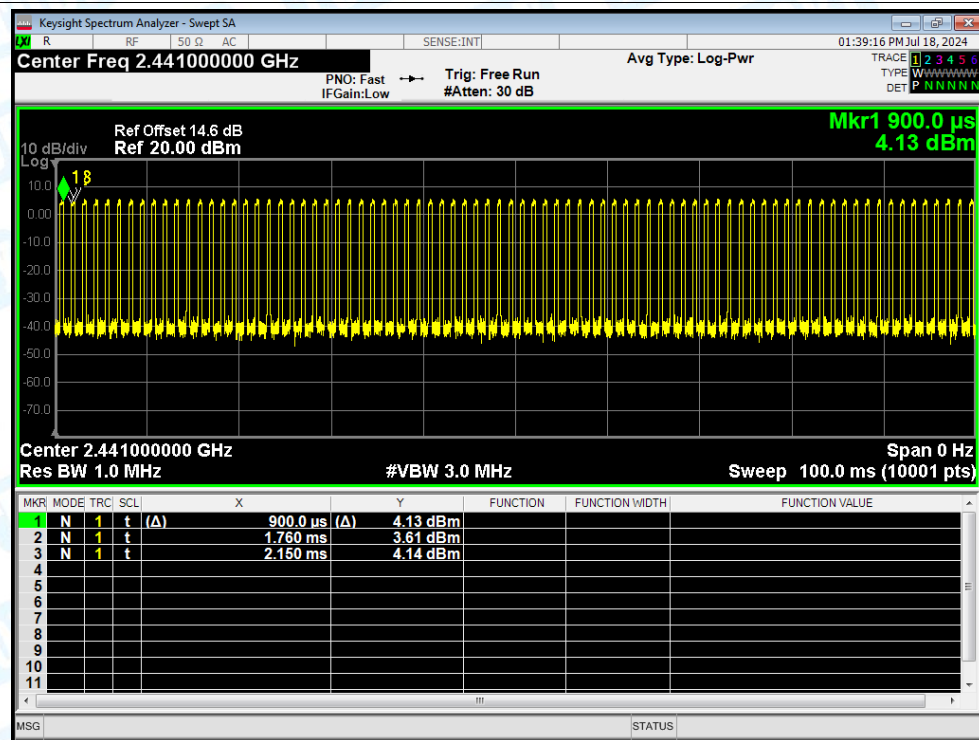
Duty Cycle NVNT 2-DH1 2480MHz Ant1

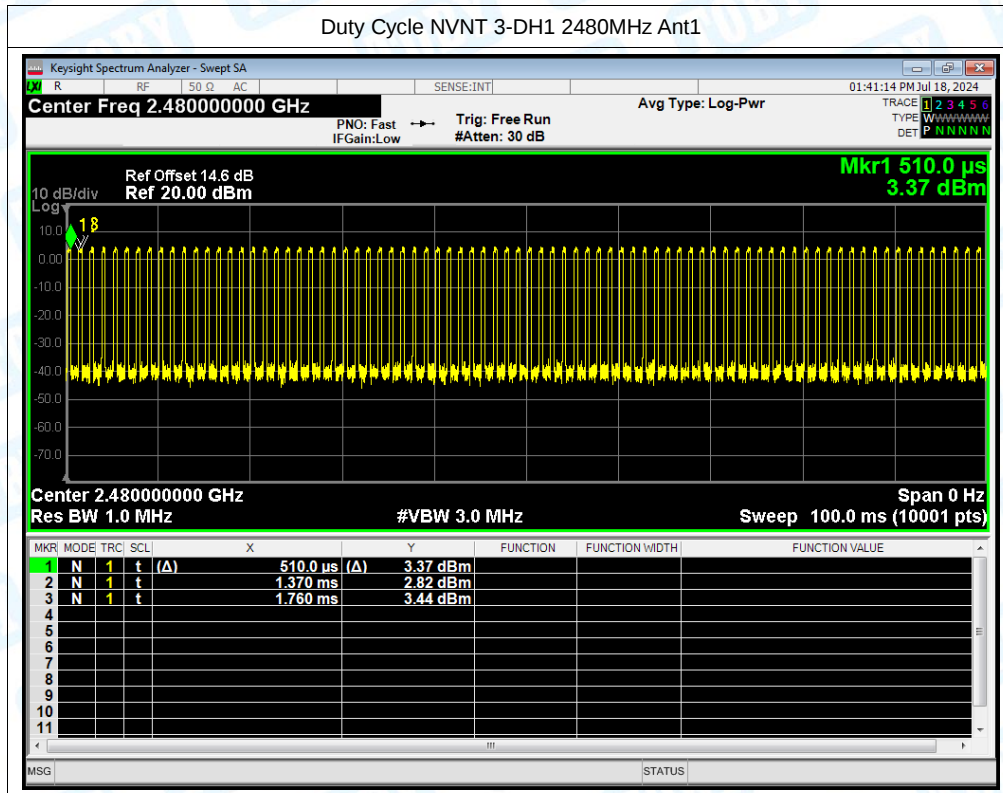


Duty Cycle NVNT 3-DH1 2402MHz Ant1



Duty Cycle NVNT 3-DH1 2441MHz Ant1



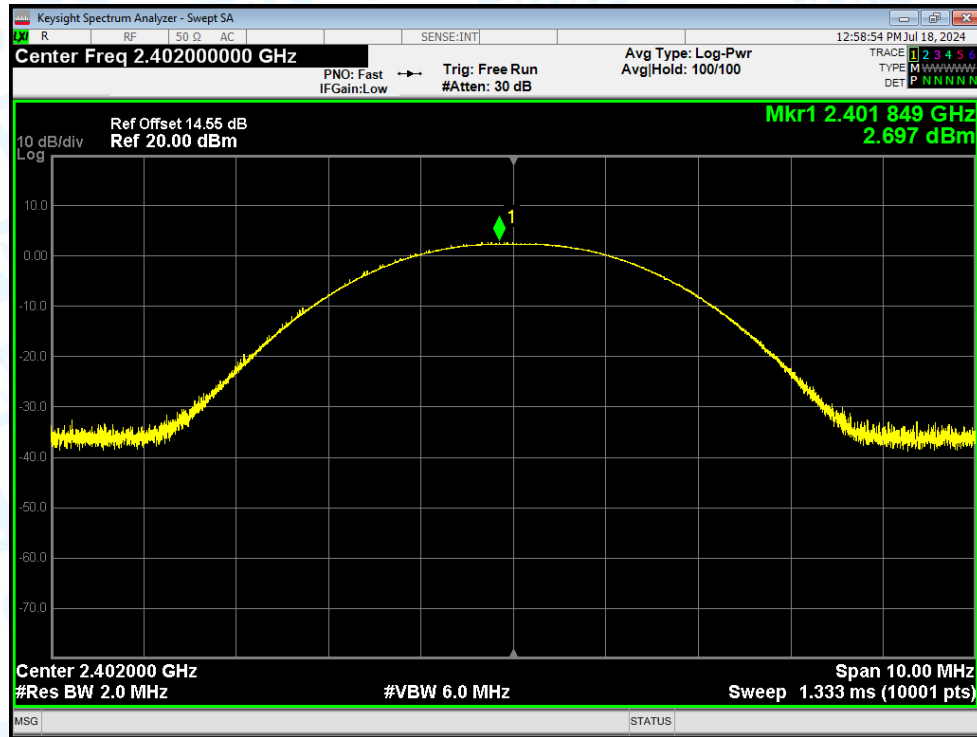


2.Maximum Conducted Output Power

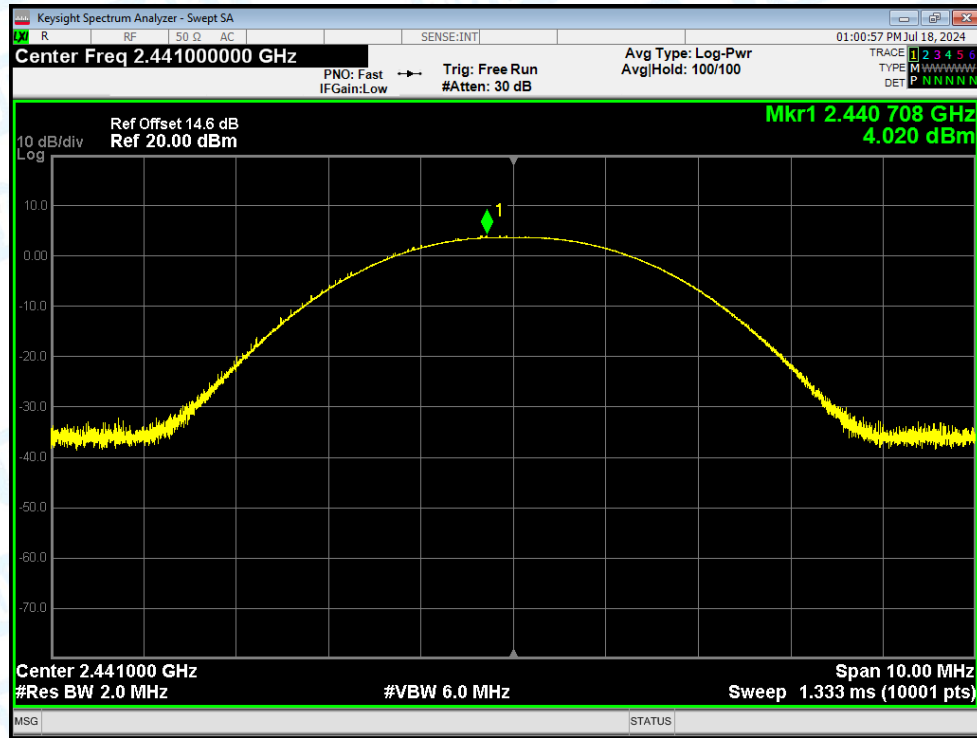
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.697	0	2.697	21	Pass
NVNT	1-DH1	2441	Ant1	4.02	0	4.02	21	Pass
NVNT	1-DH1	2480	Ant1	3.192	0	3.192	21	Pass
NVNT	1-DH3	2441	Ant1	3.983	0	3.983	21	Pass
NVNT	1-DH5	2441	Ant1	3.949	0	3.949	21	Pass
NVNT	2-DH1	2402	Ant1	4.397	0	4.397	21	Pass
NVNT	2-DH1	2441	Ant1	5.54	0	5.54	21	Pass
NVNT	2-DH1	2480	Ant1	4.663	0	4.663	21	Pass
NVNT	2-DH3	2441	Ant1	5.707	0	5.707	21	Pass
NVNT	2-DH5	2441	Ant1	5.681	0	5.681	21	Pass
NVNT	3-DH1	2402	Ant1	4.62	0	4.62	21	Pass
NVNT	3-DH1	2441	Ant1	5.859	0	5.859	21	Pass
NVNT	3-DH1	2480	Ant1	4.995	0	4.995	21	Pass
NVNT	3-DH3	2441	Ant1	5.907	0	5.907	21	Pass
NVNT	3-DH5	2441	Ant1	5.854	0	5.854	21	Pass

Test Graphs

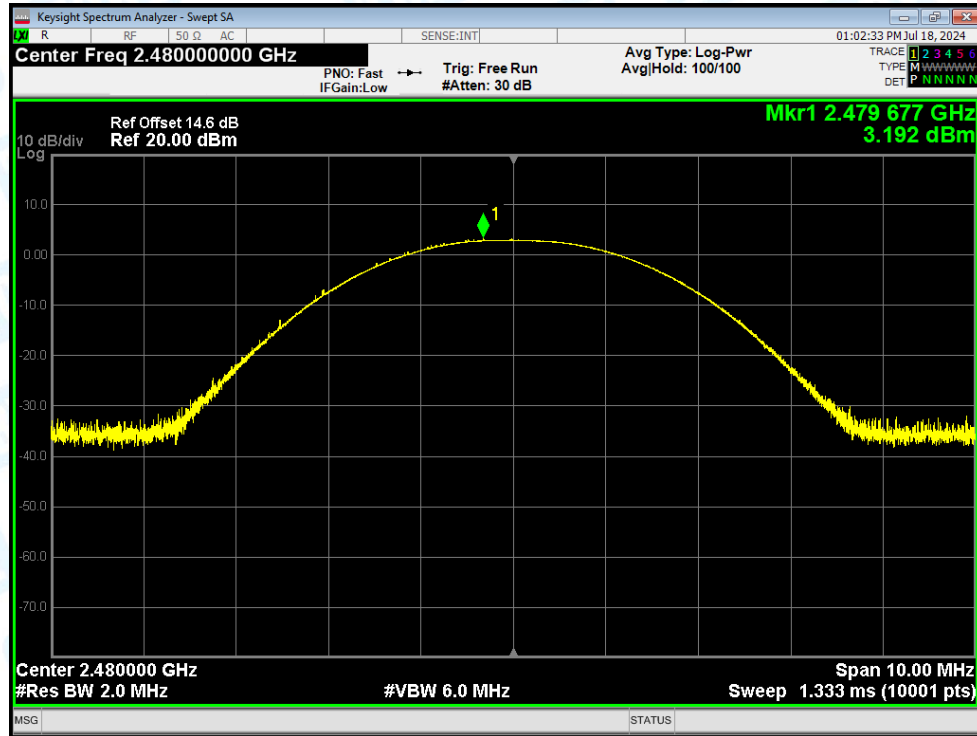
Power NVNT 1-DH1 2402MHz Ant1



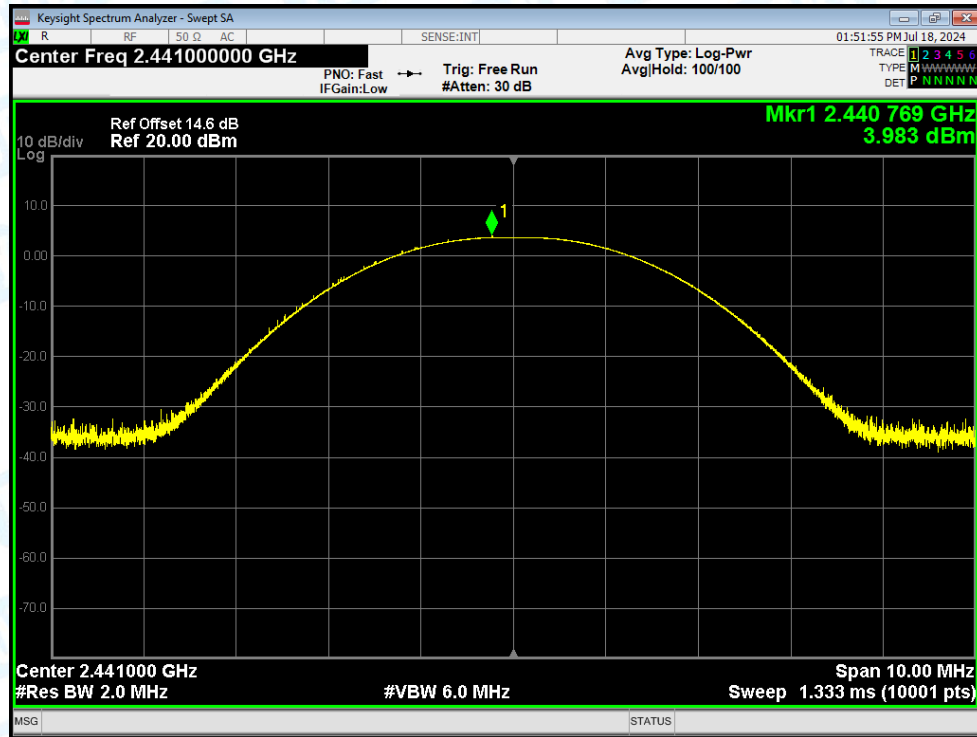
Power NVNT 1-DH1 2441MHz Ant1



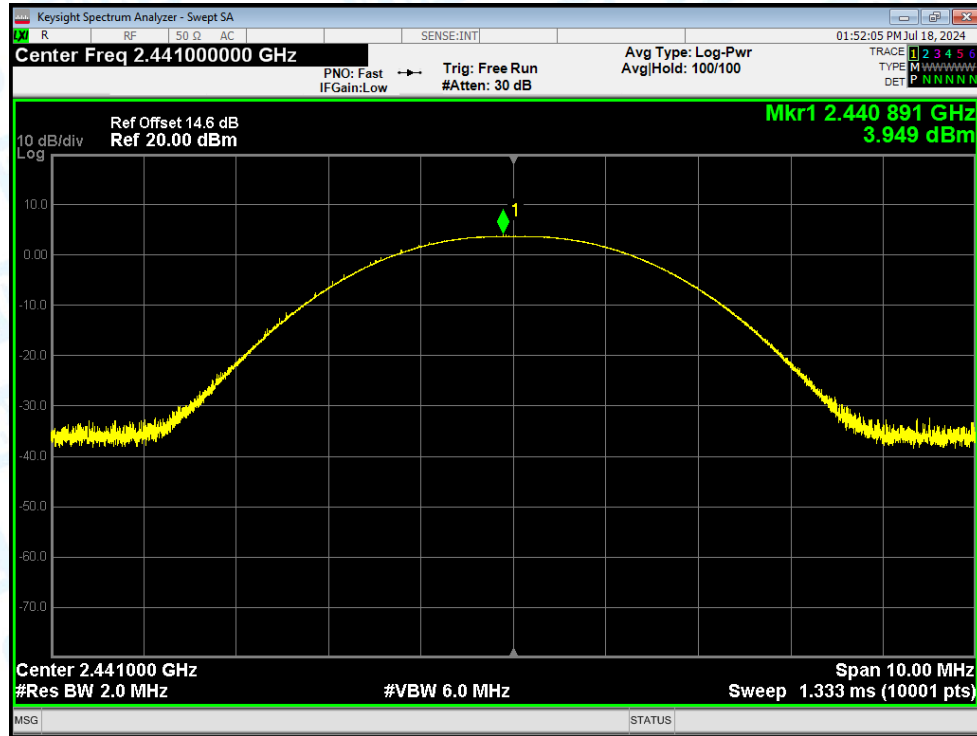
Power NVNT 1-DH1 2480MHz Ant1



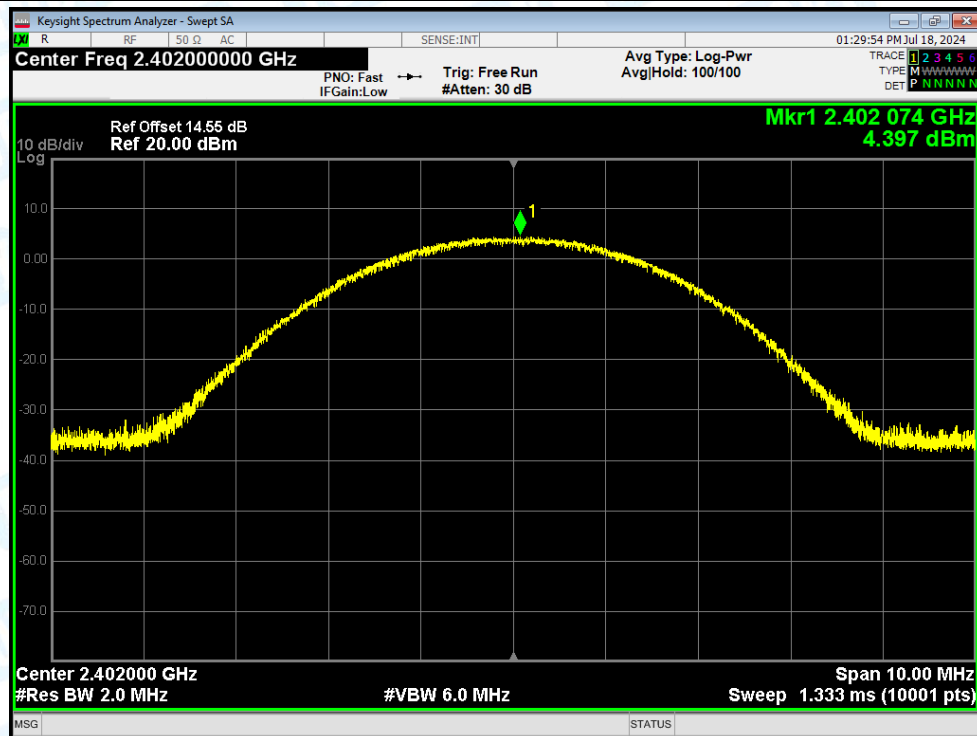
Power NVNT 1-DH3 2441MHz Ant1



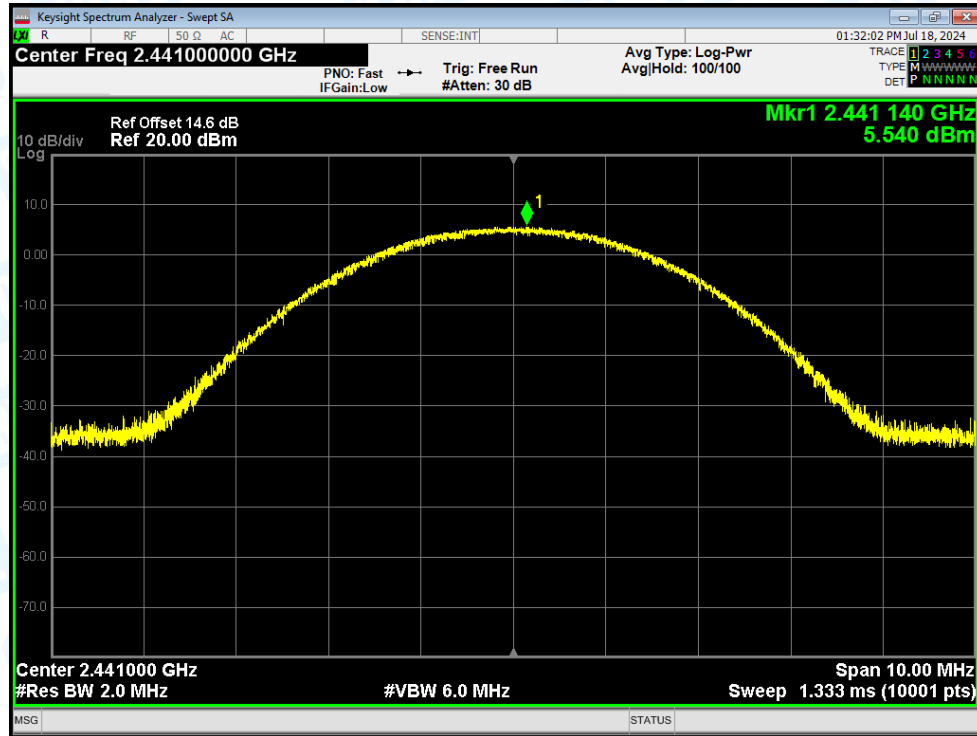
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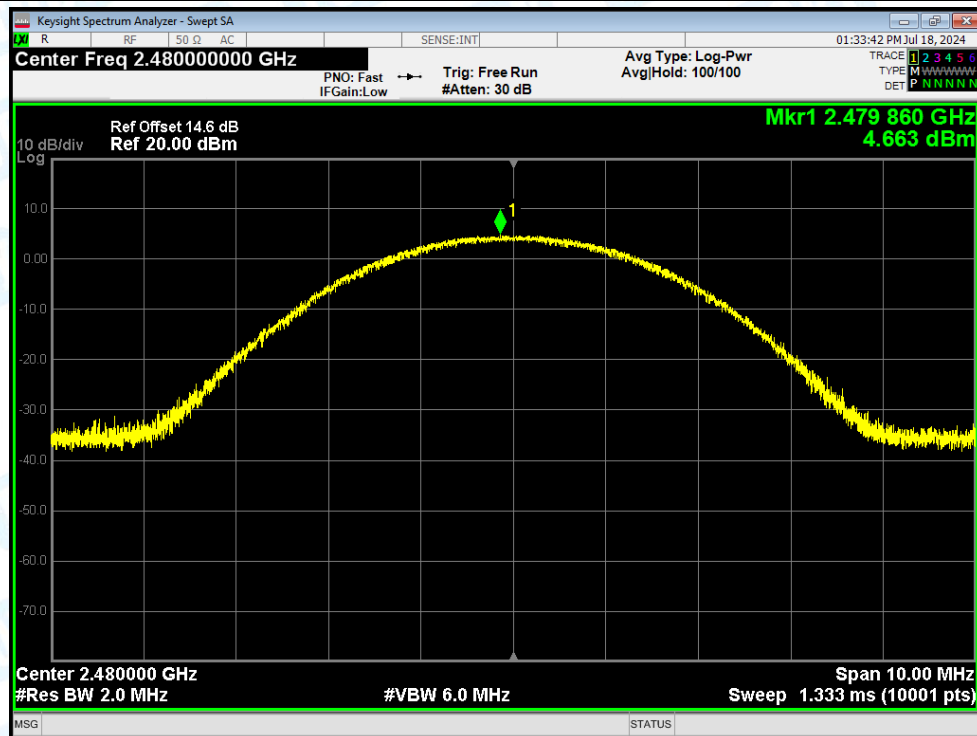
Power NVNT 2-DH1 2402MHz Ant1



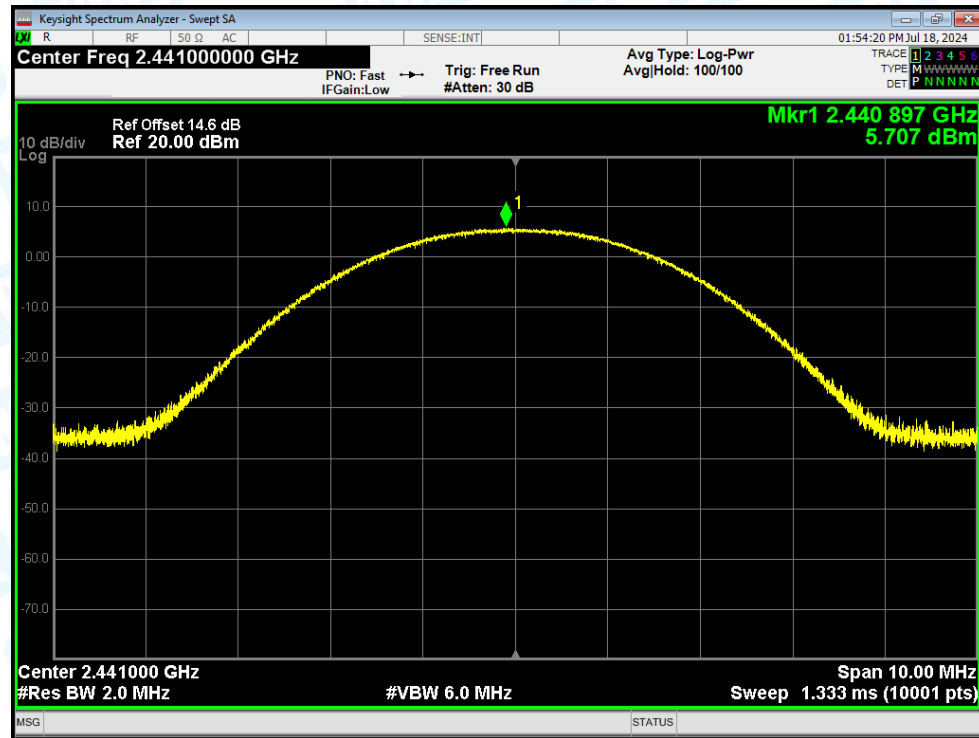
Power NVNT 2-DH1 2441MHz Ant1



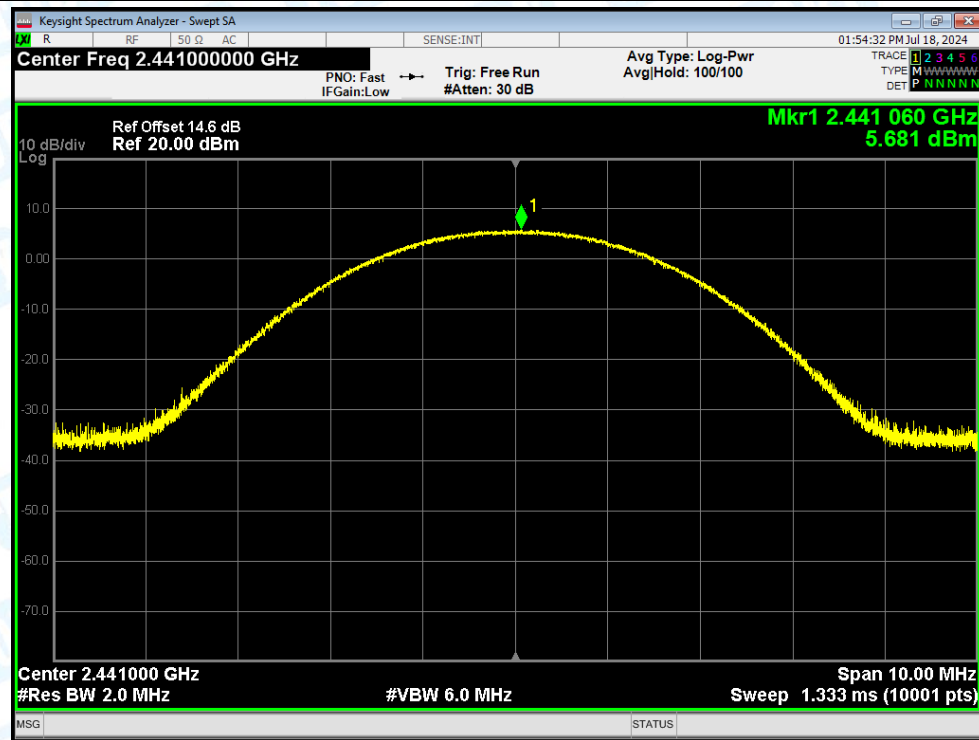
Power NVNT 2-DH1 2480MHz Ant1



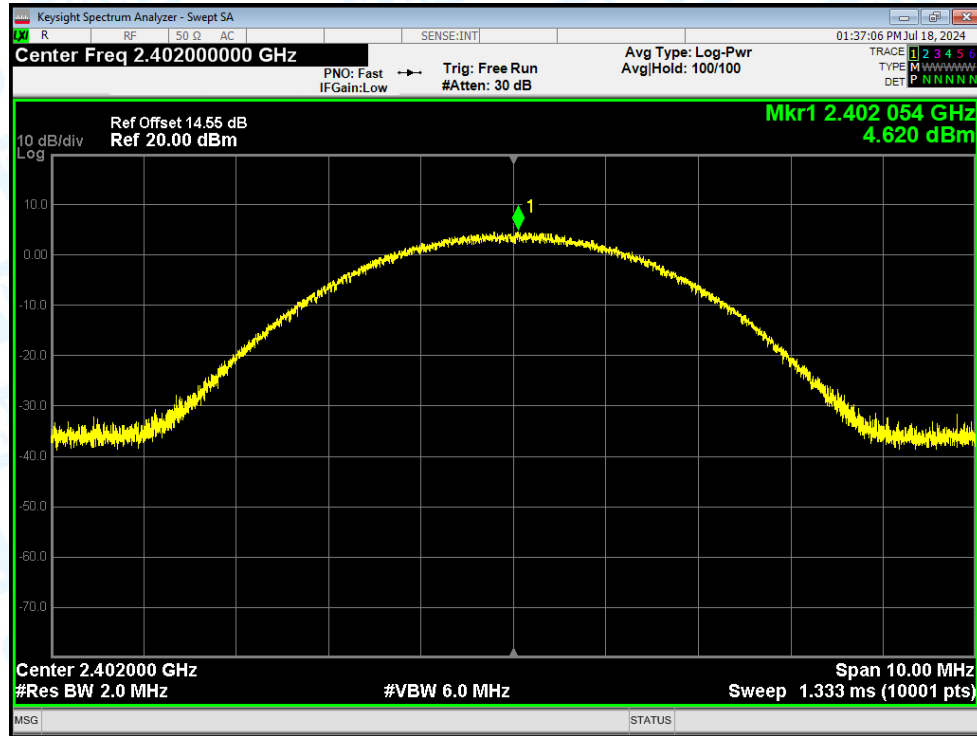
Power NVNT 2-DH3 2441MHz Ant1



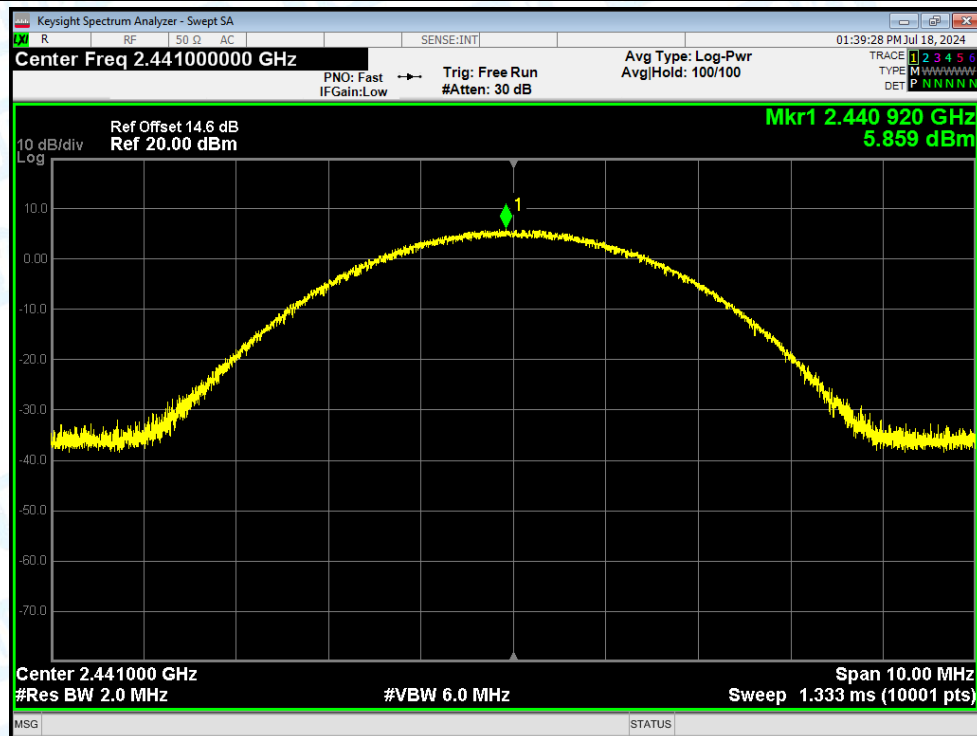
Power NVNT 2-DH5 2441MHz Ant1



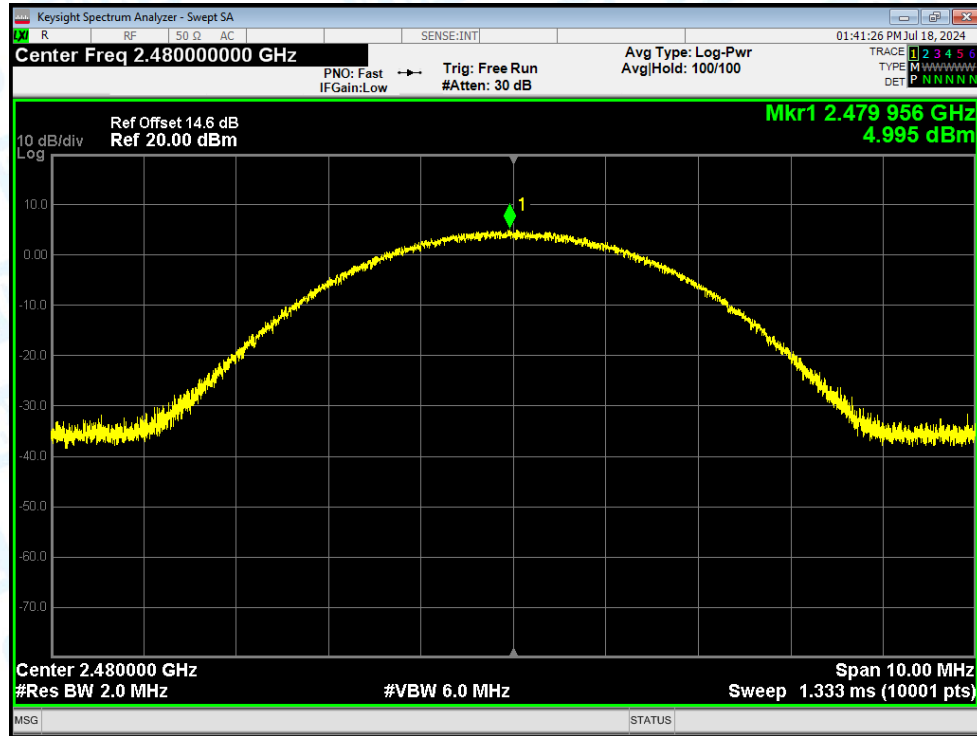
Power NVNT 3-DH1 2402MHz Ant1



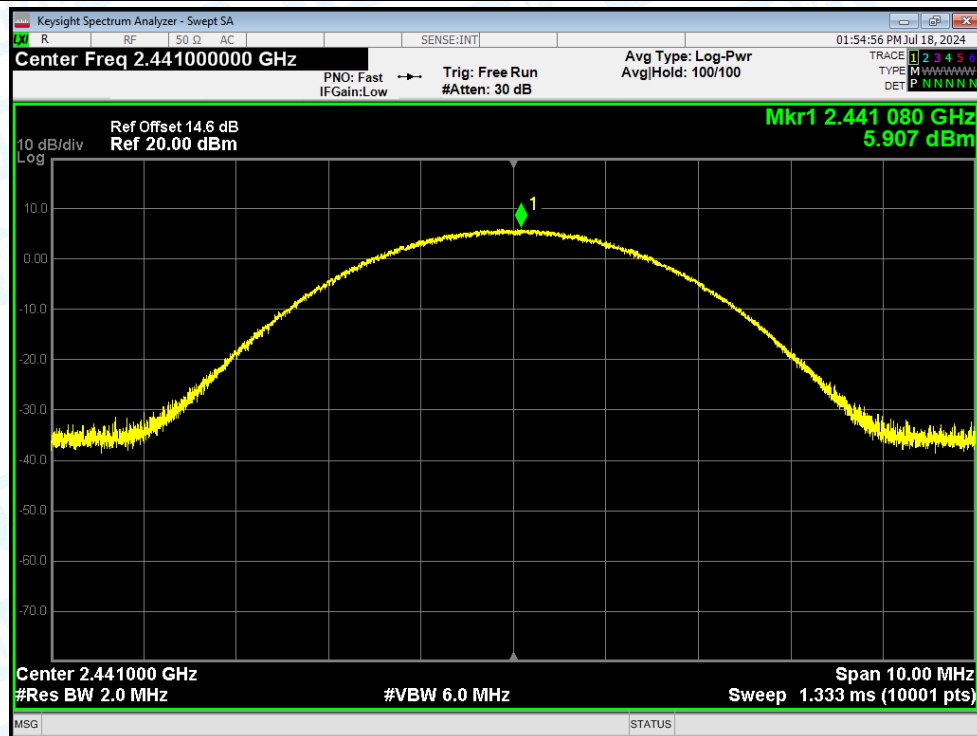
Power NVNT 3-DH1 2441MHz Ant1

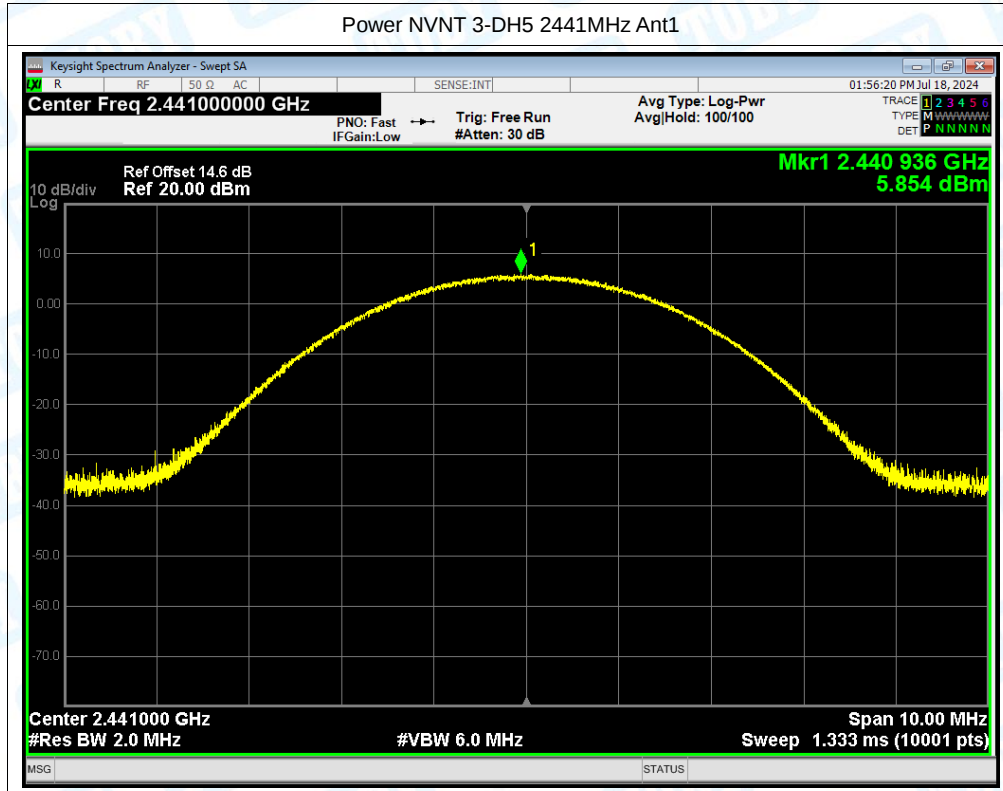


Power NVNT 3-DH1 2480MHz Ant1



Power NVNT 3-DH3 2441MHz Ant1



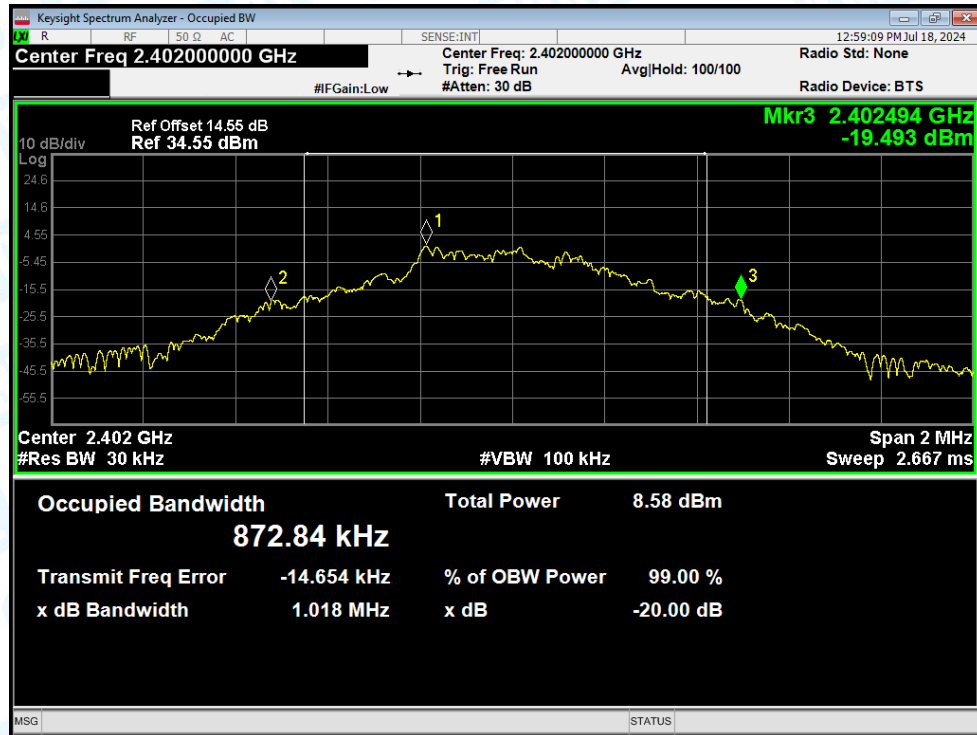


3.-20dB Bandwidth

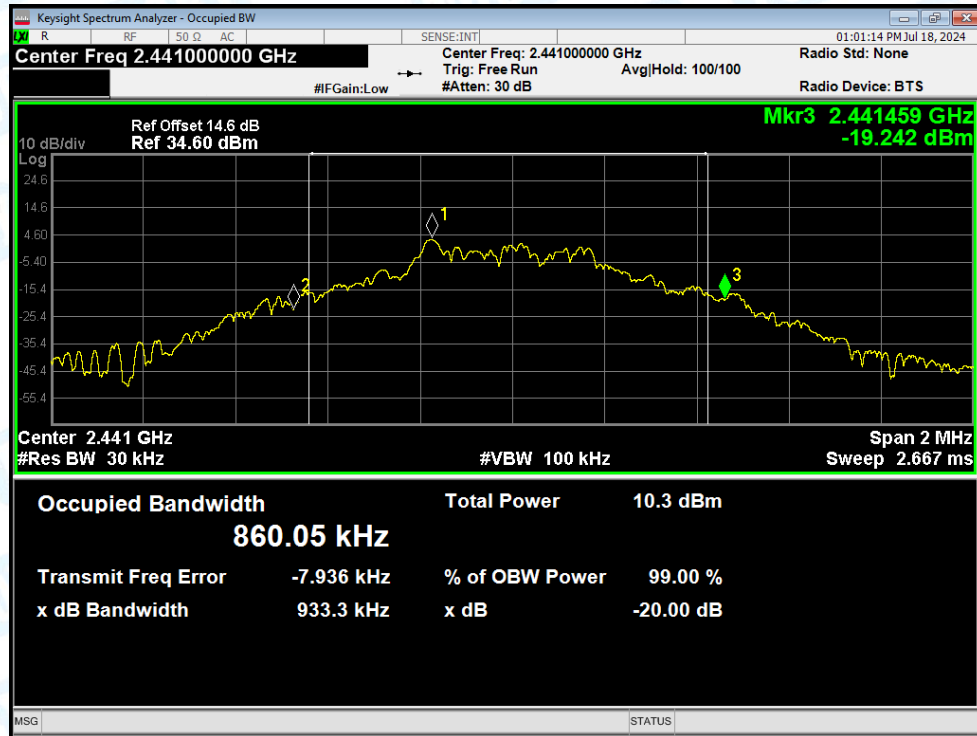
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	1.02	0	Pass
NVNT	1-DH1	2441	Ant1	0.93	0	Pass
NVNT	1-DH1	2480	Ant1	0.89	0	Pass
NVNT	2-DH1	2402	Ant1	1.24	0	Pass
NVNT	2-DH1	2441	Ant1	1.27	0	Pass
NVNT	2-DH1	2480	Ant1	1.25	0	Pass
NVNT	3-DH1	2402	Ant1	1.24	0	Pass
NVNT	3-DH1	2441	Ant1	1.26	0	Pass
NVNT	3-DH1	2480	Ant1	1.26	0	Pass

Test Graphs

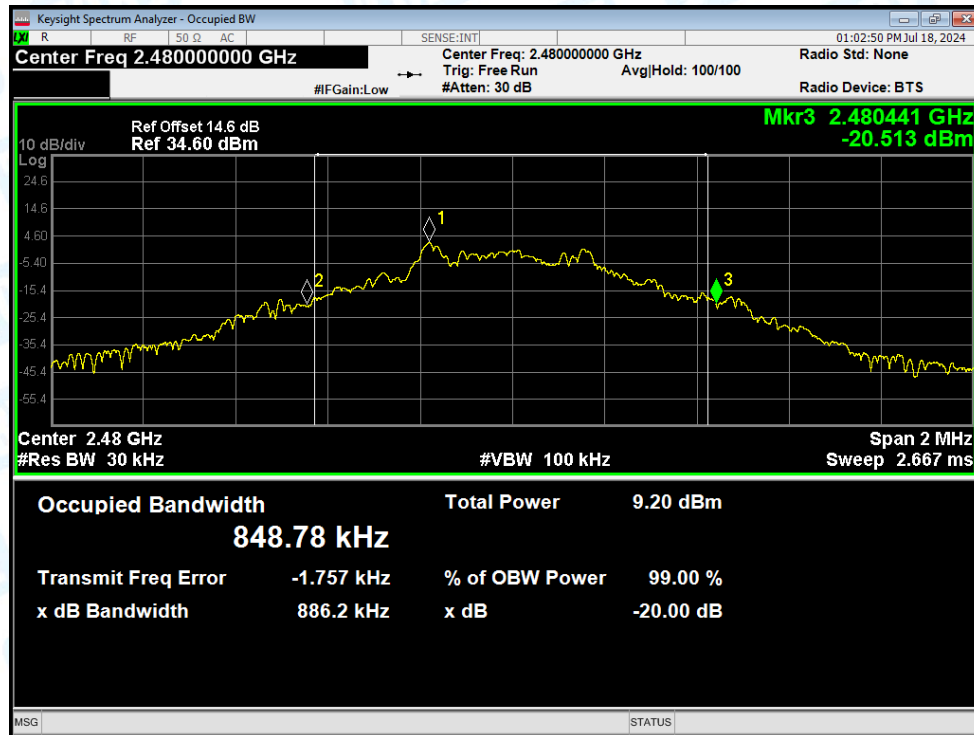
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



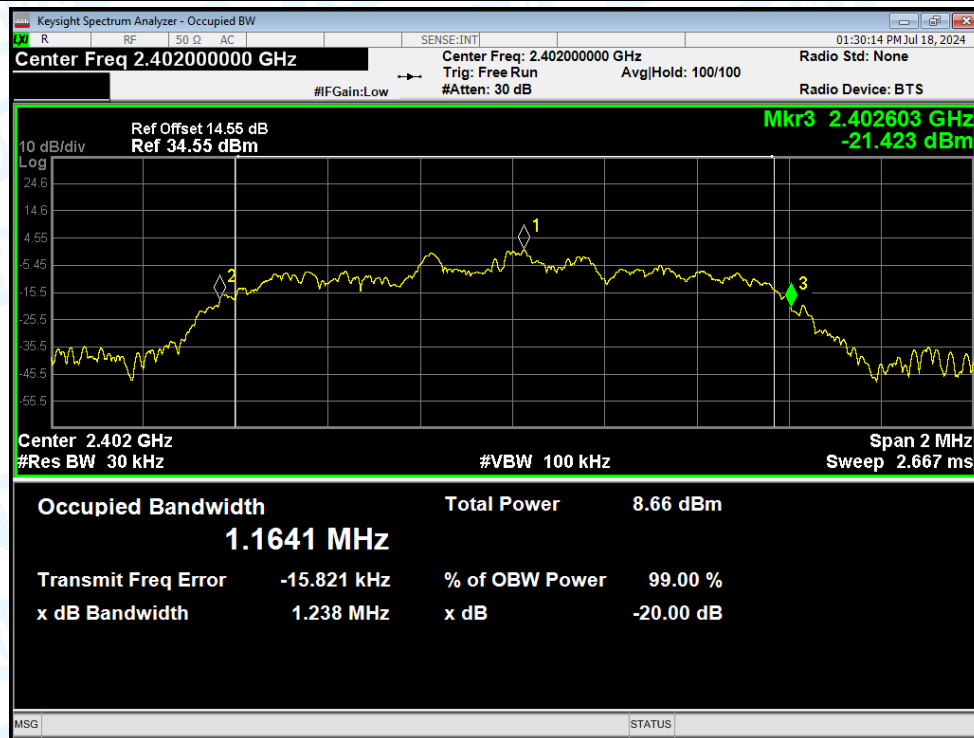
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



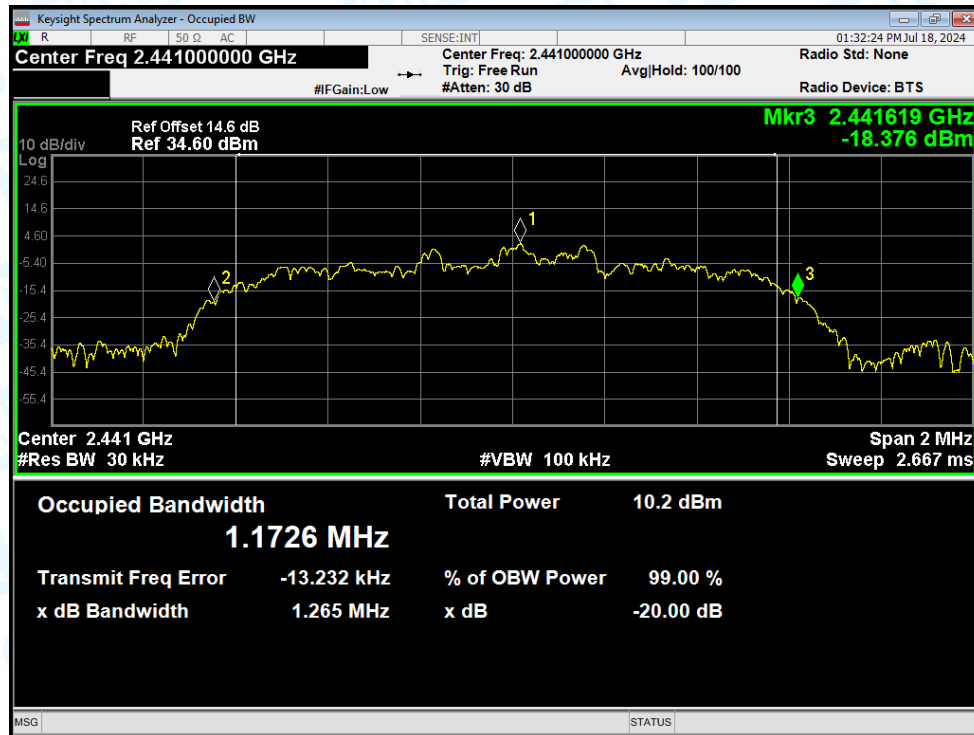
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



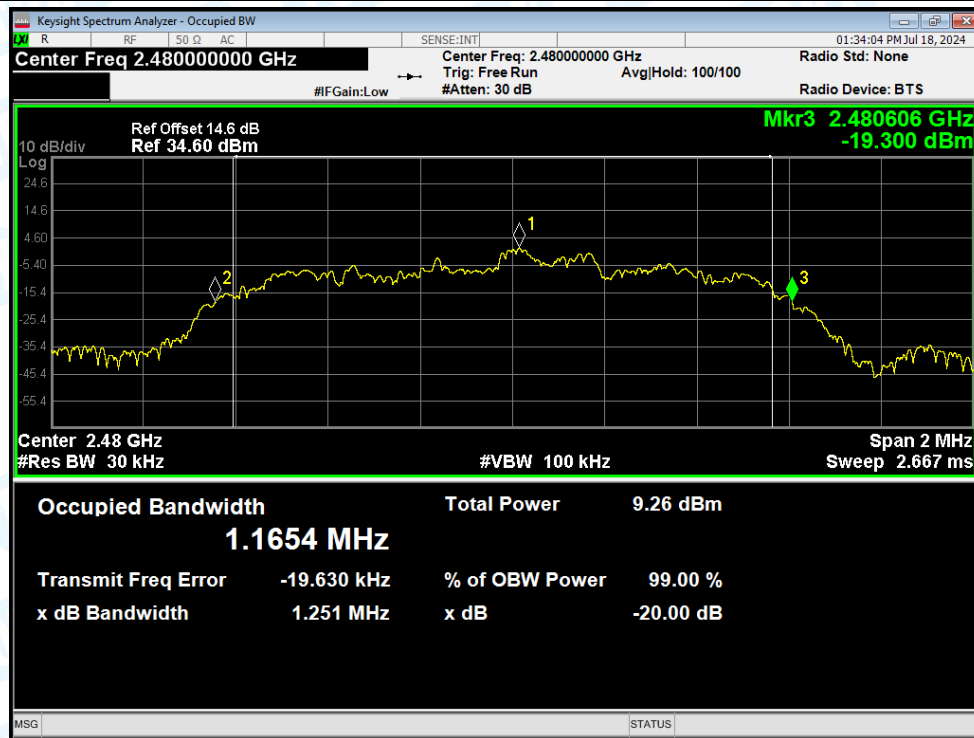
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



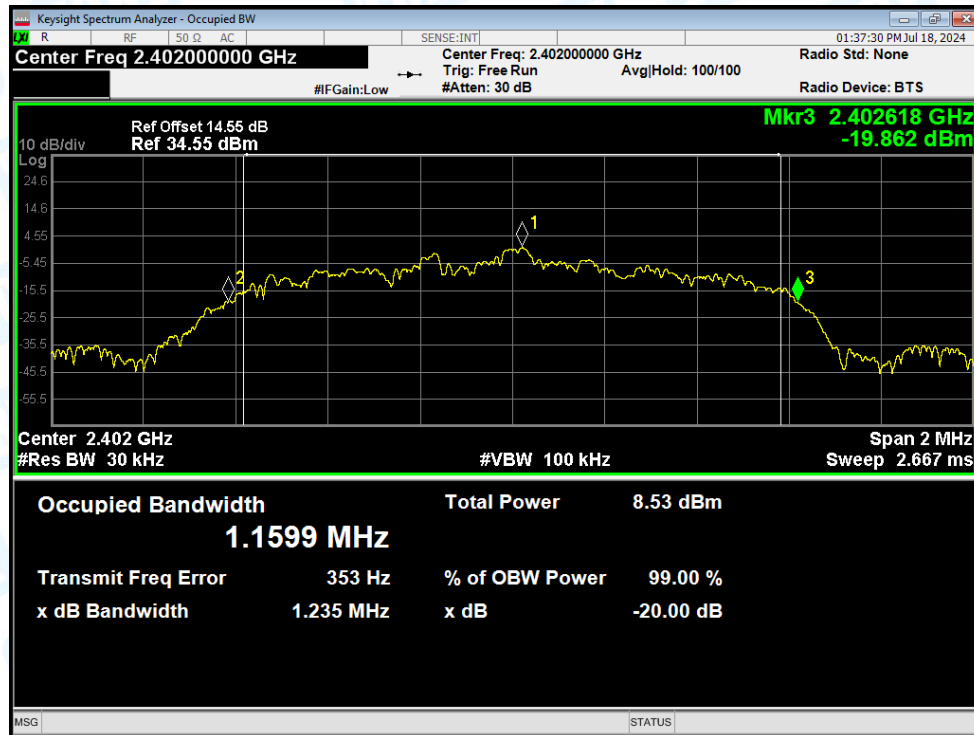
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



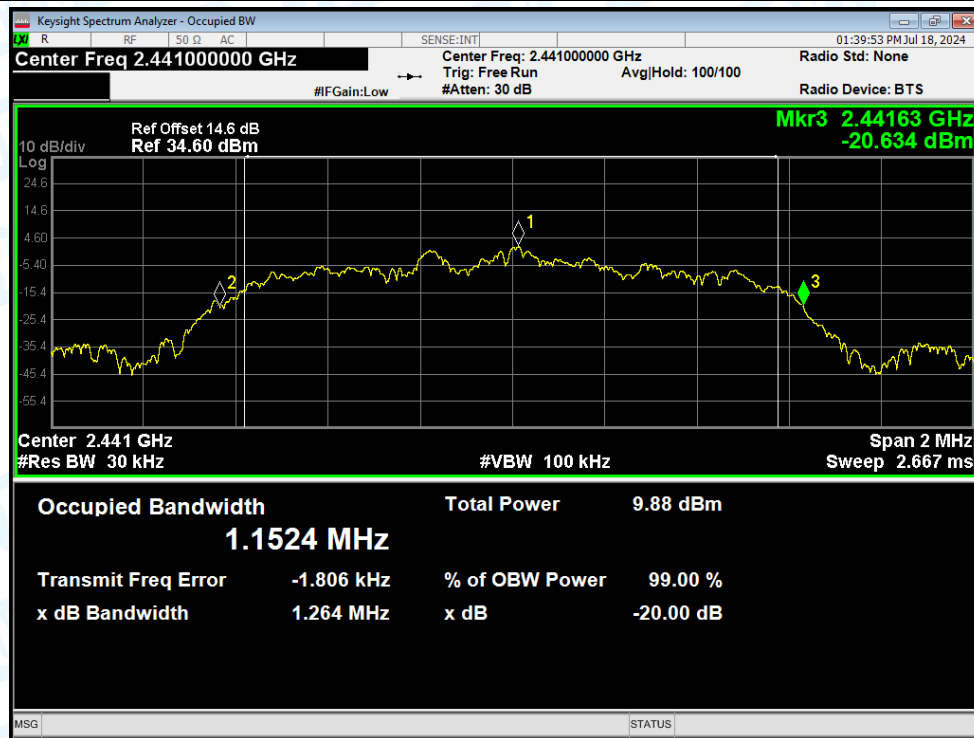
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

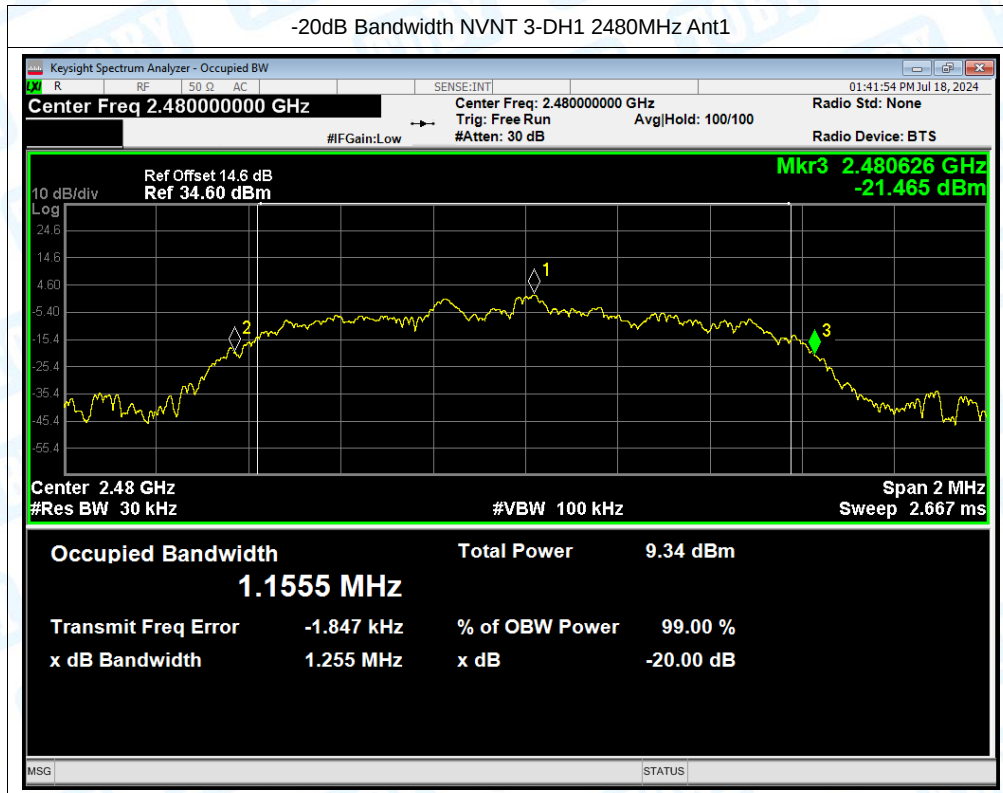


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



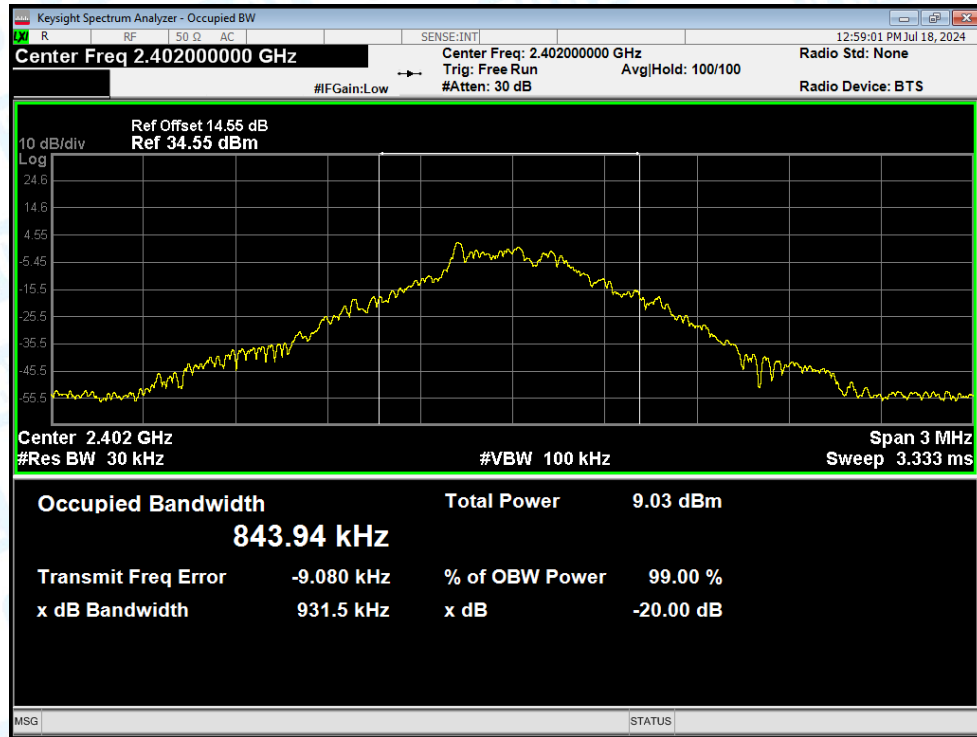


4.Occupied Channel Bandwidth

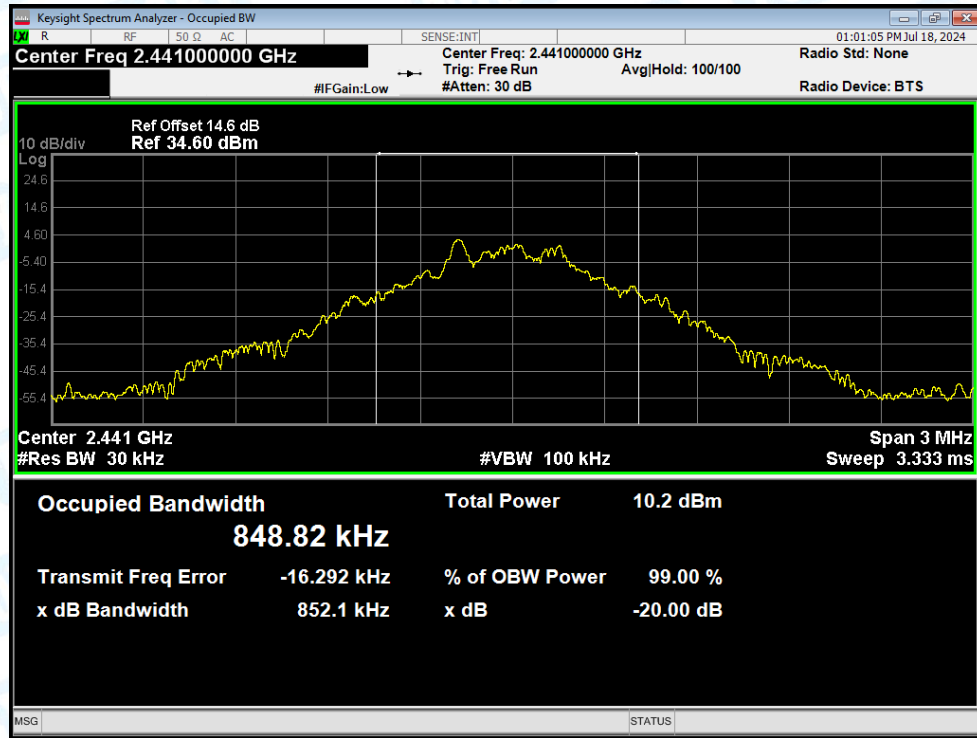
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.844
NVNT	1-DH1	2441	Ant1	0.849
NVNT	1-DH1	2480	Ant1	0.862
NVNT	2-DH1	2402	Ant1	1.175
NVNT	2-DH1	2441	Ant1	1.165
NVNT	2-DH1	2480	Ant1	1.151
NVNT	3-DH1	2402	Ant1	1.167
NVNT	3-DH1	2441	Ant1	1.175
NVNT	3-DH1	2480	Ant1	1.158

Test Graphs

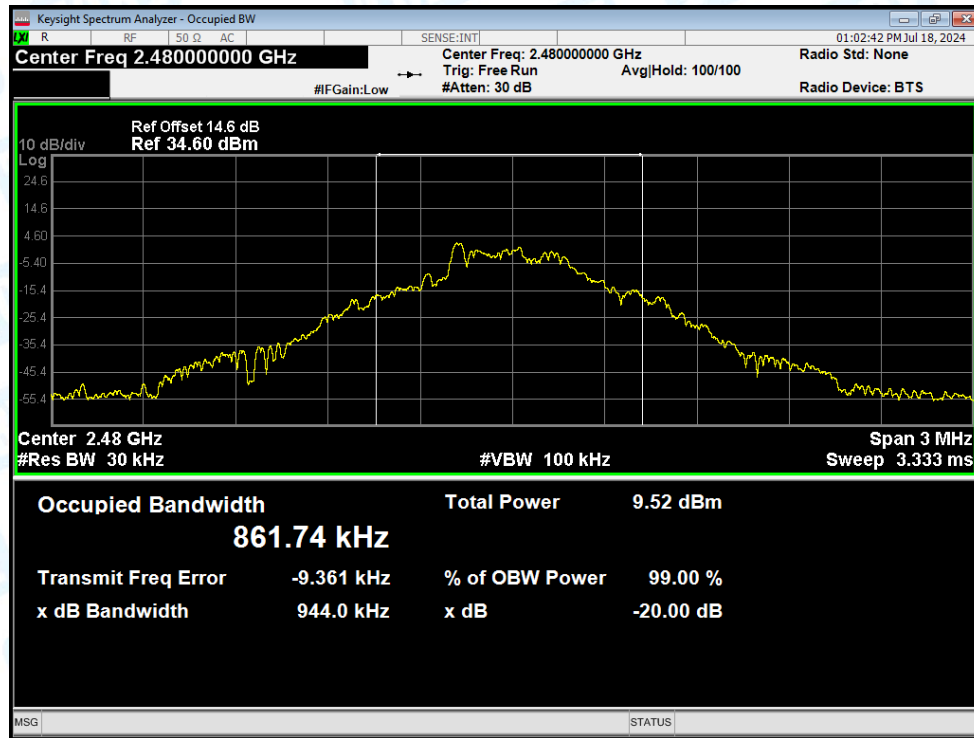
OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1



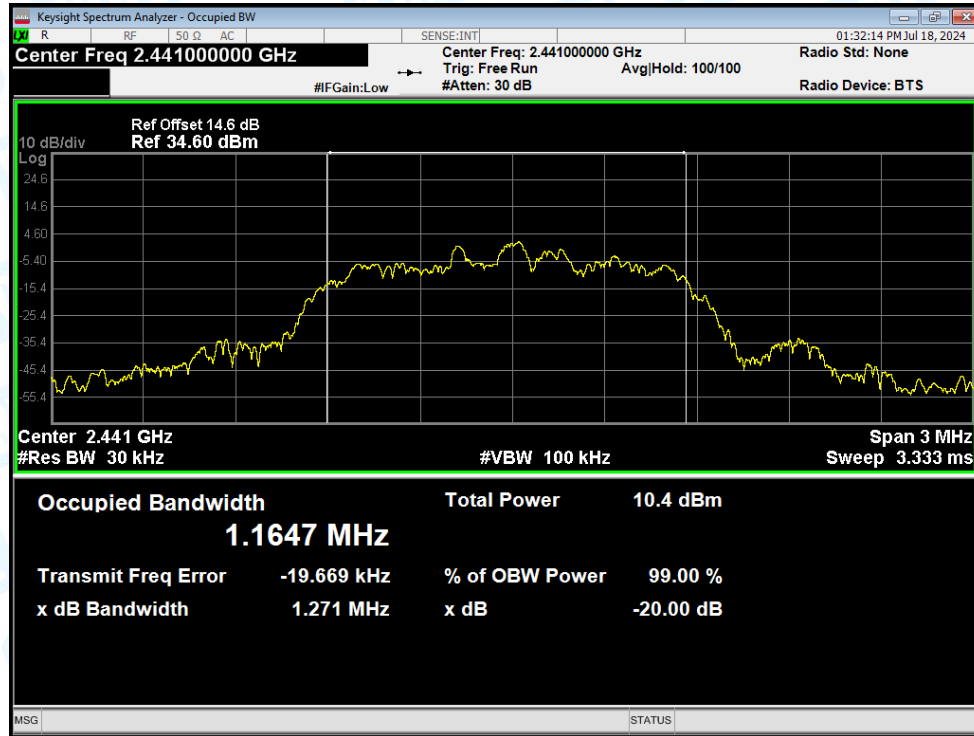
OBW NVNT 1-DH1 2480MHz Ant1



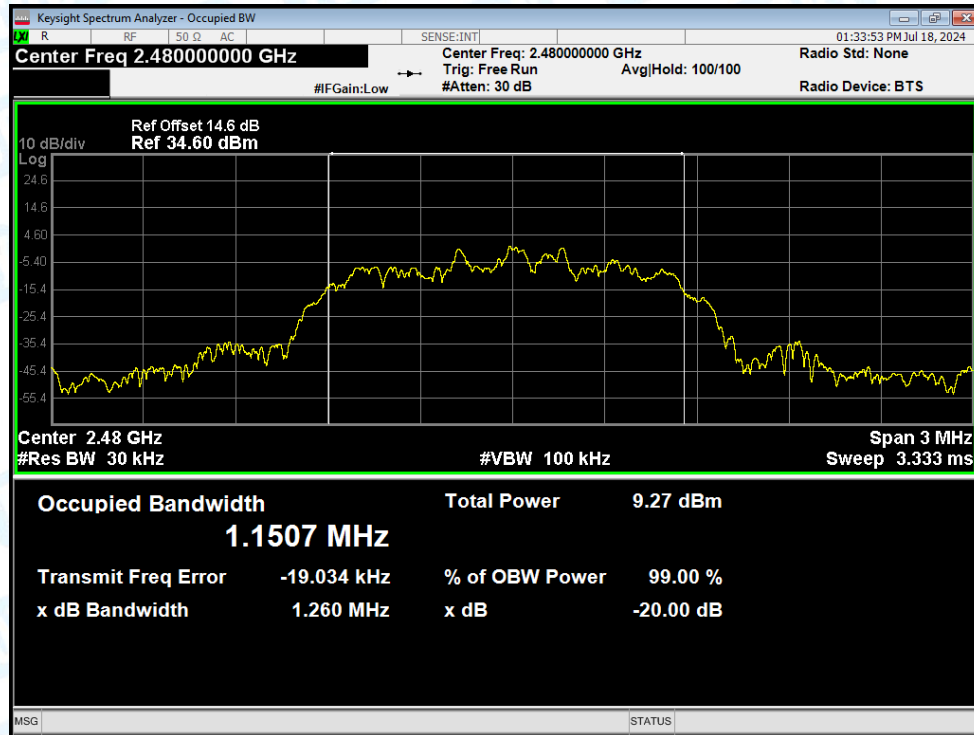
OBW NVNT 2-DH1 2402MHz Ant1



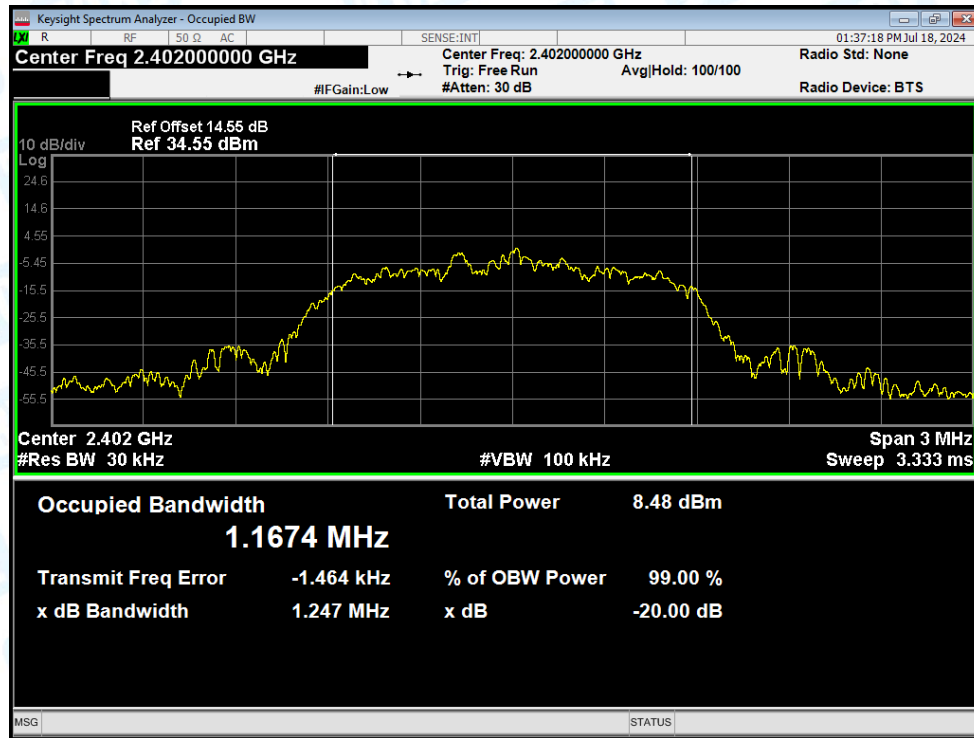
OBW NVNT 2-DH1 2441MHz Ant1



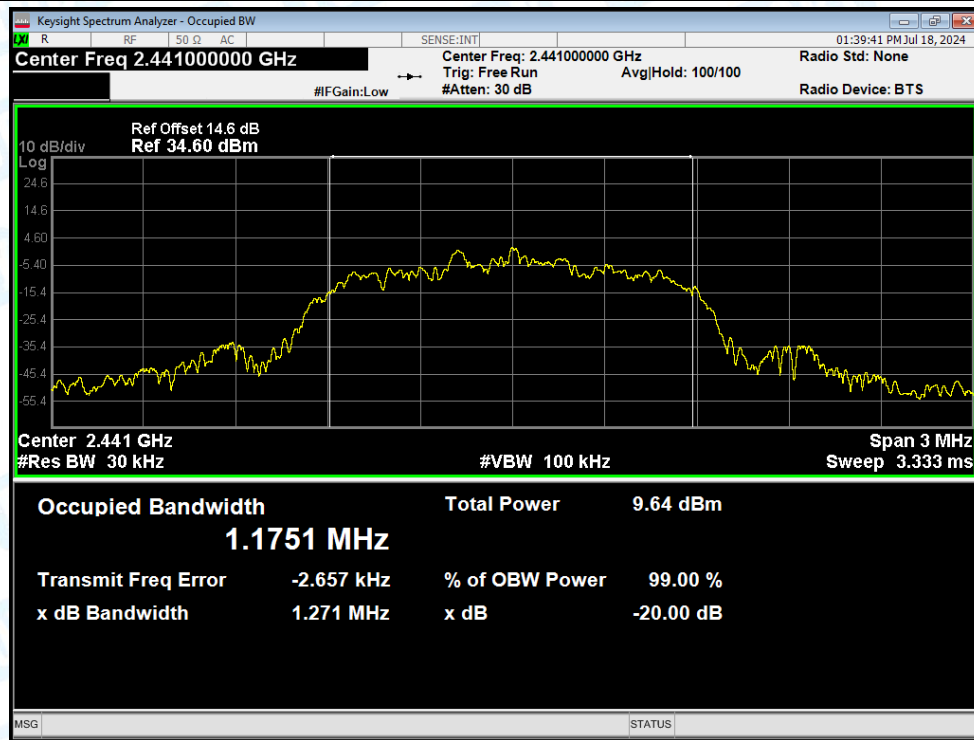
OBW NVNT 2-DH1 2480MHz Ant1

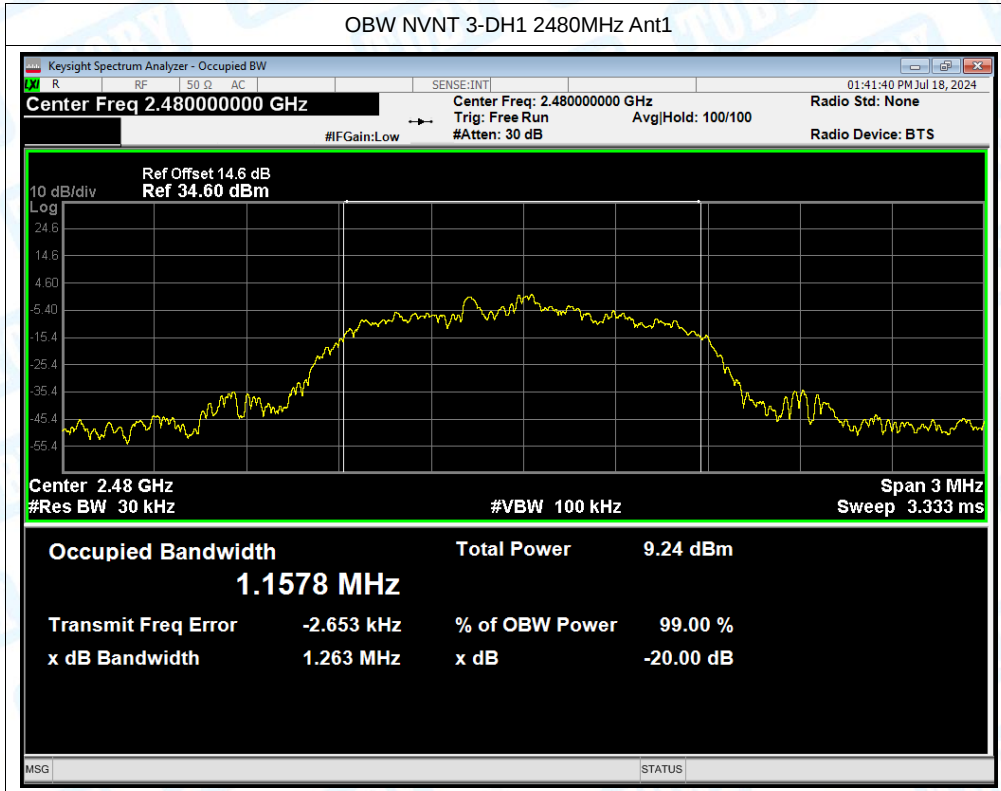


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



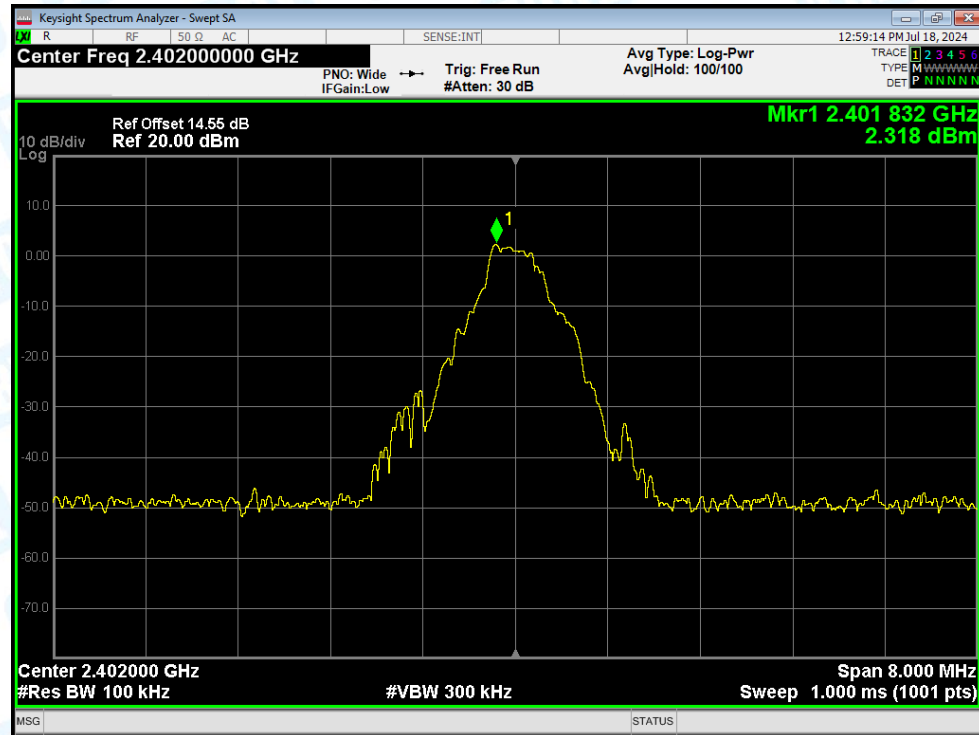


5.Band Edge

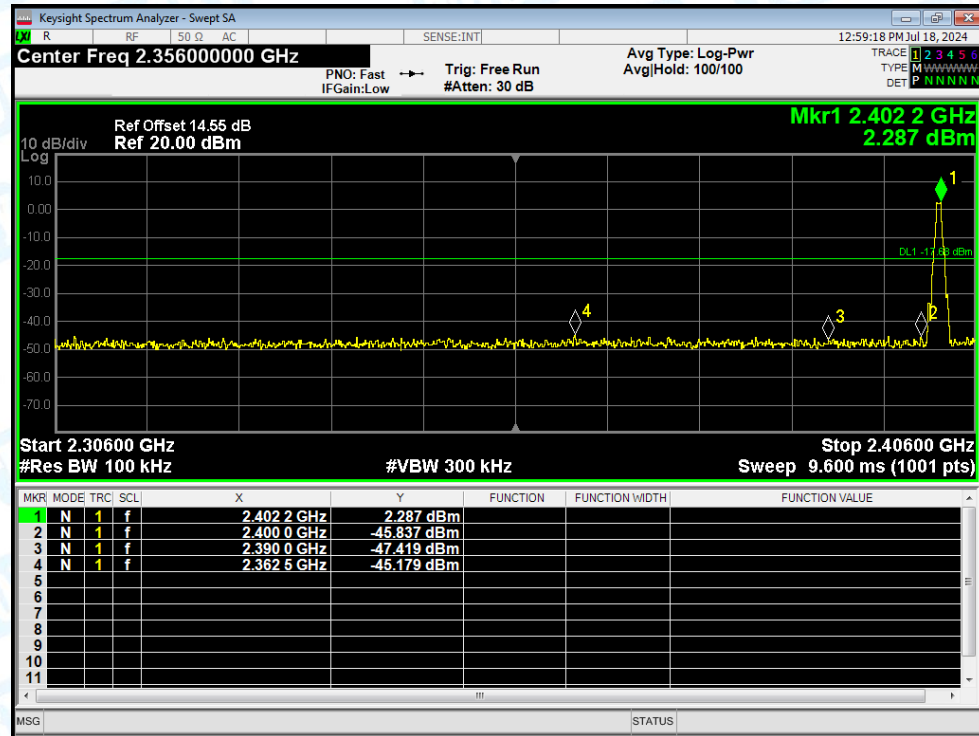
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-47.5	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-48.15	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-47.76	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-47.37	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-47.8	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-47.47	-20	Pass

Test Graphs

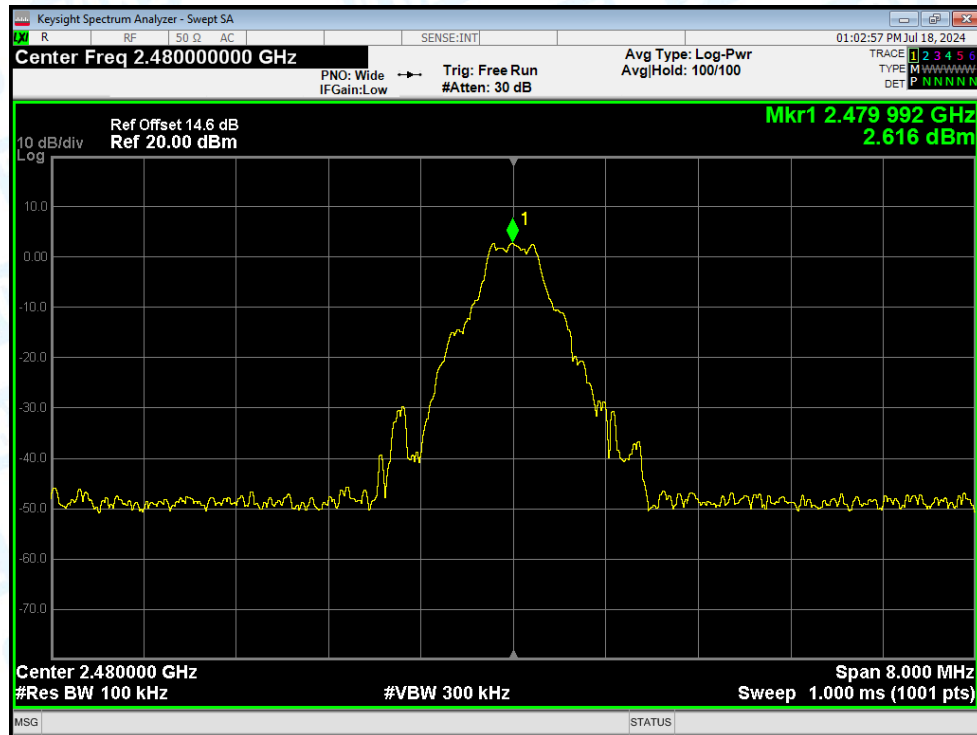
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



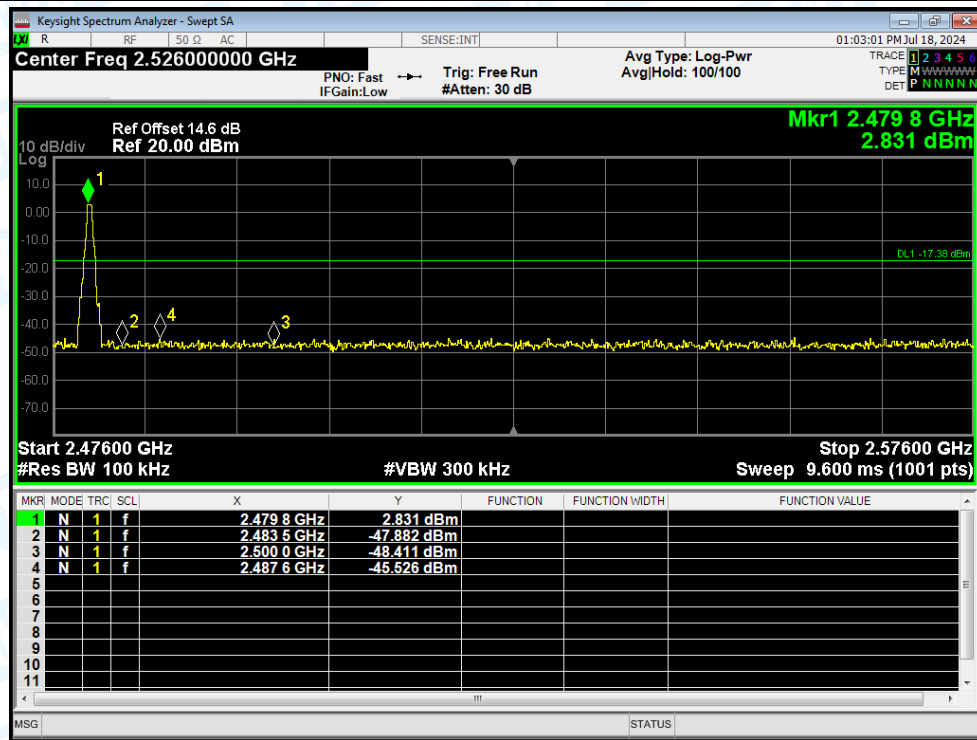
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

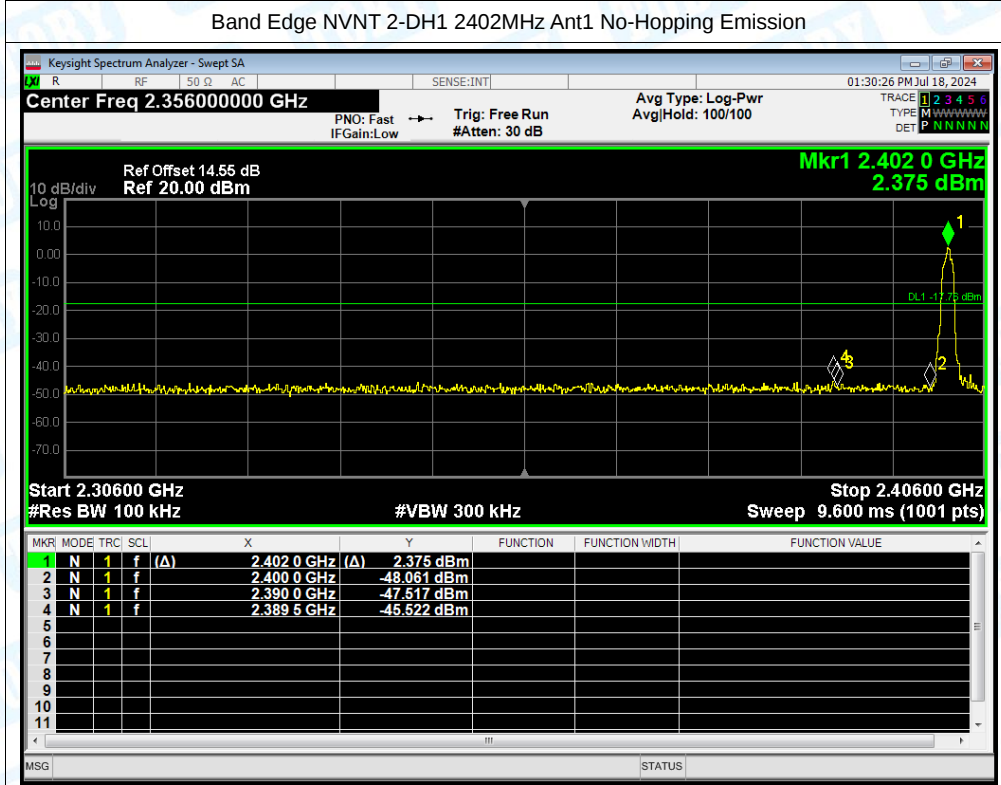
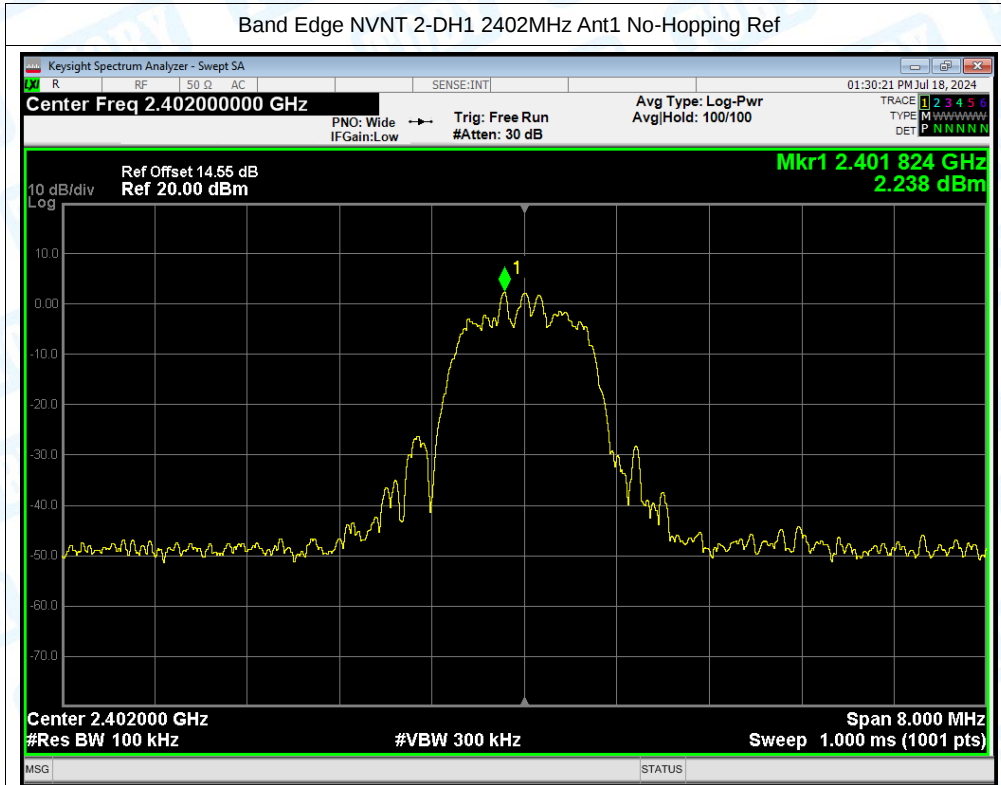


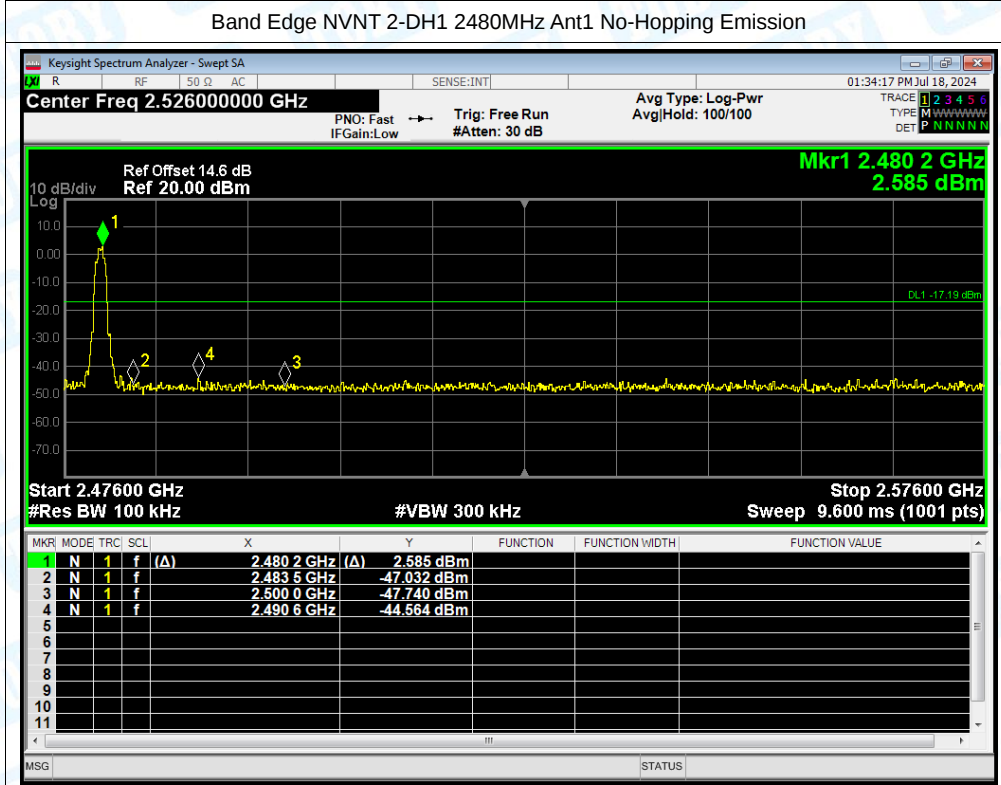
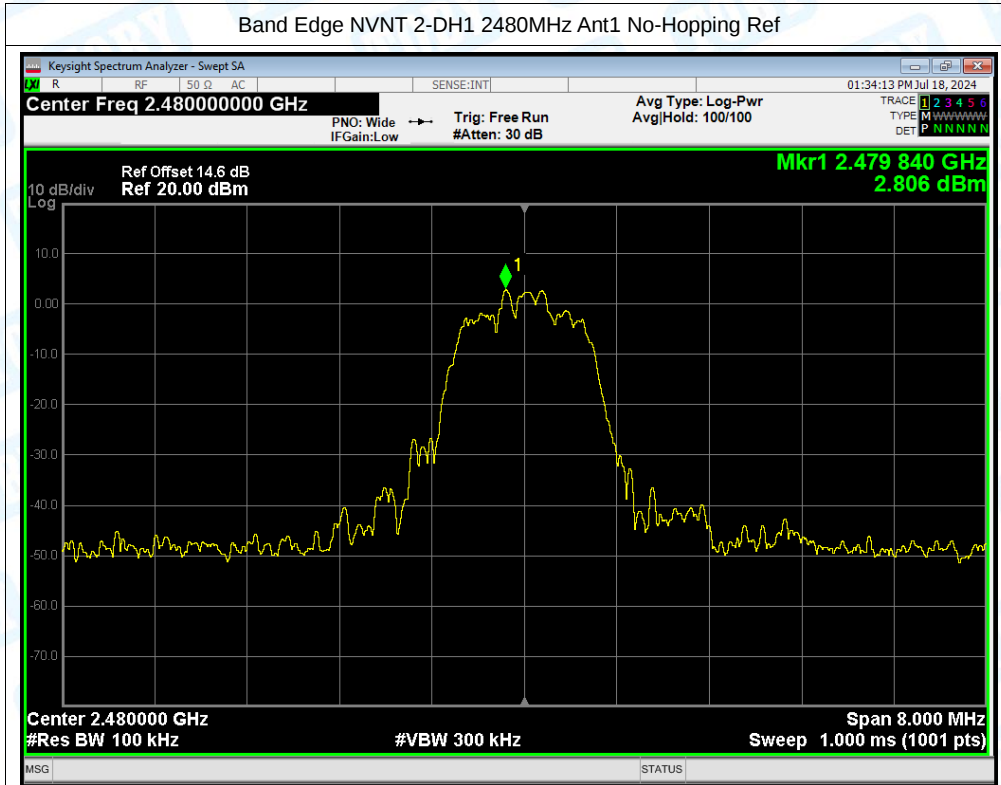
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



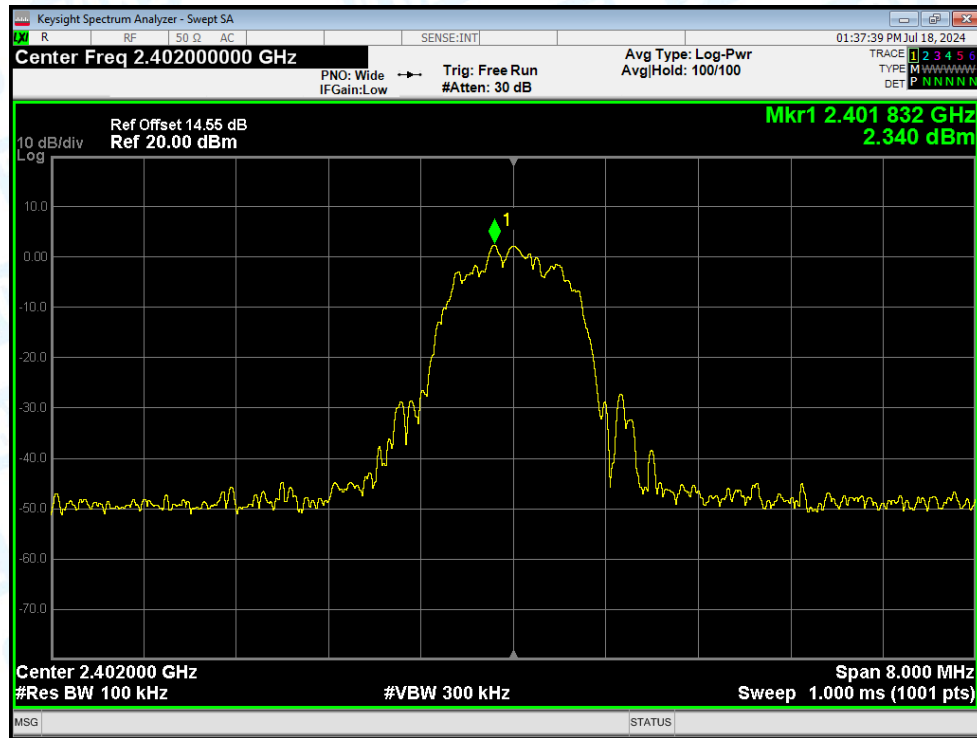
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



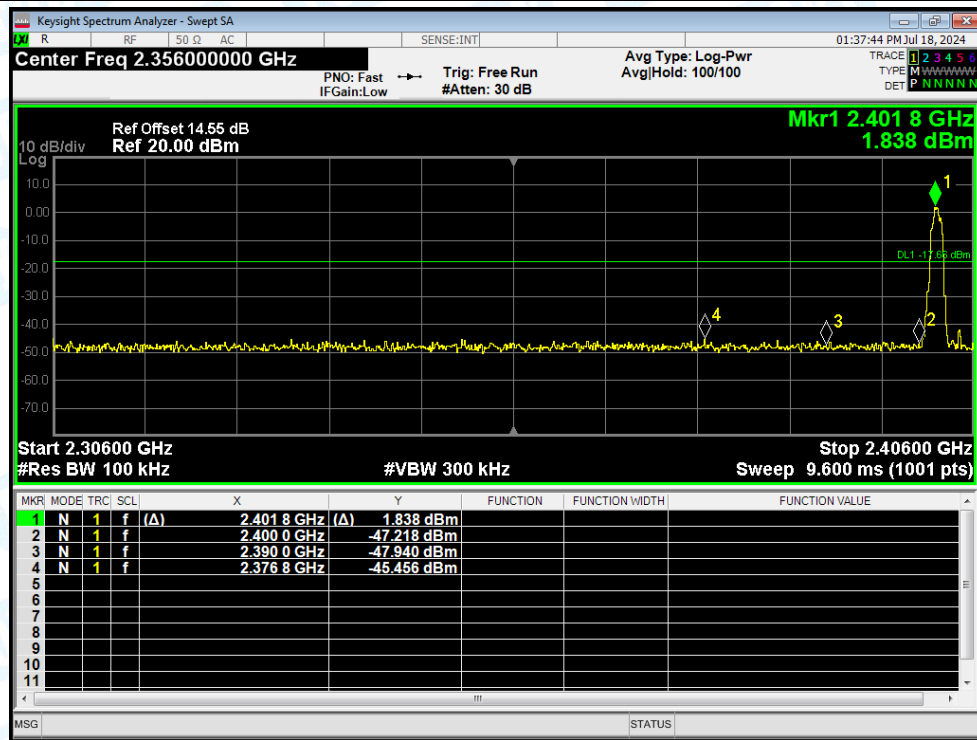




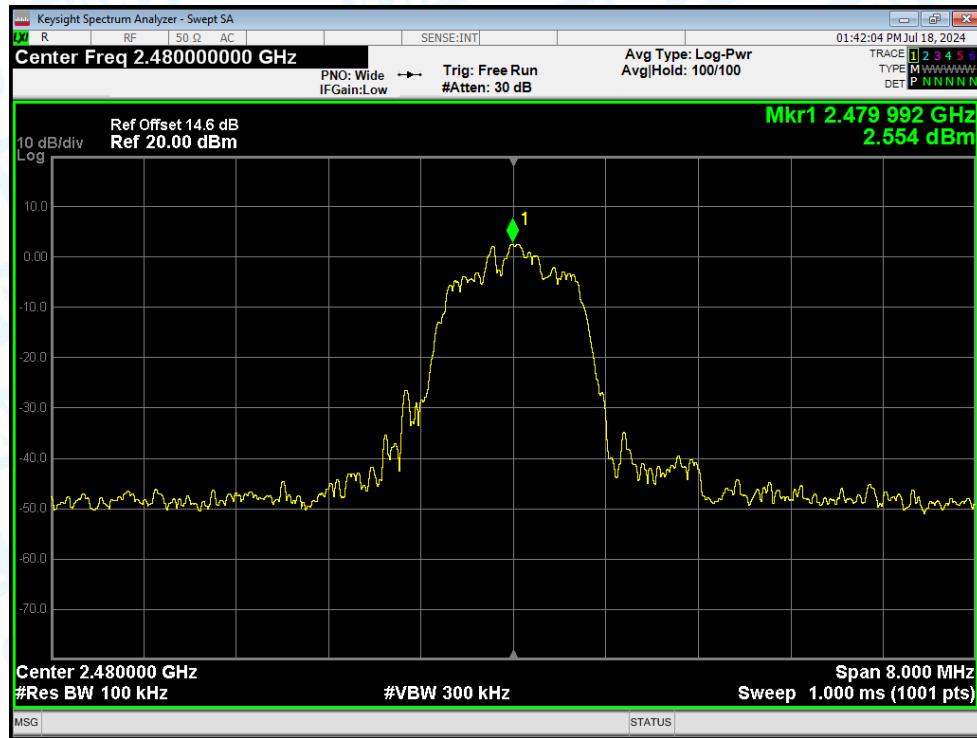
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref



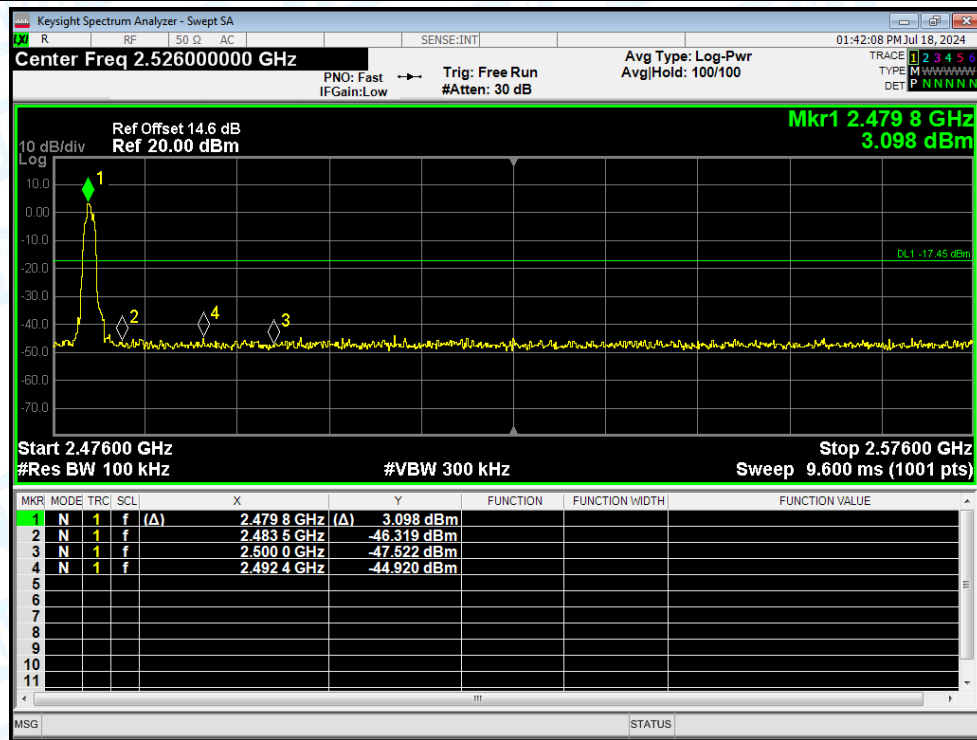
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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



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

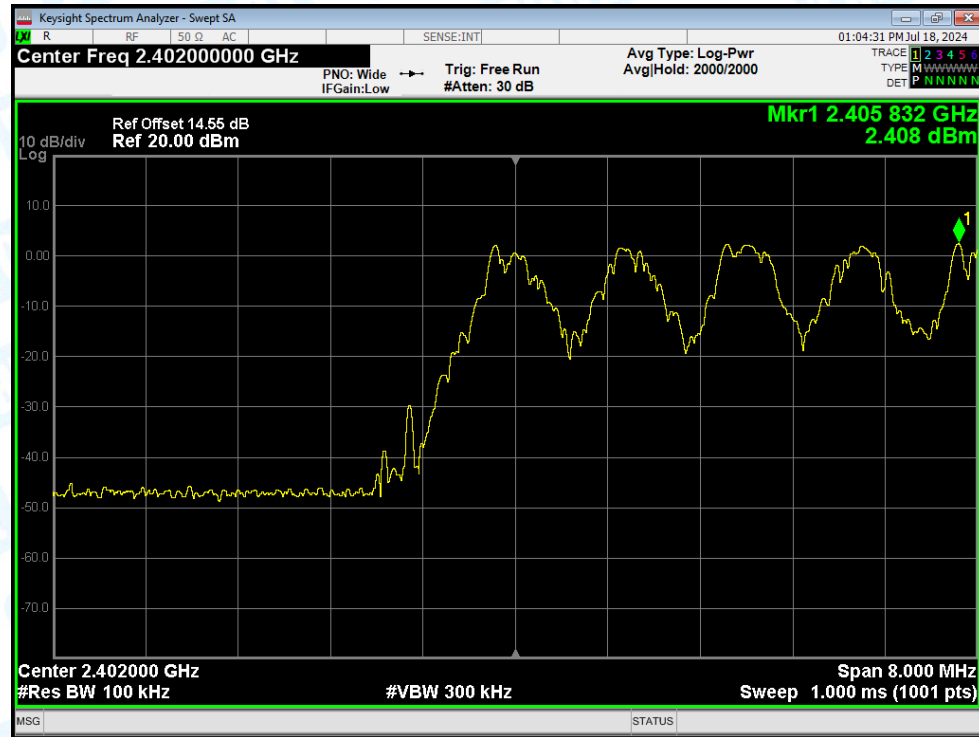


6.Band Edge(Hopping)

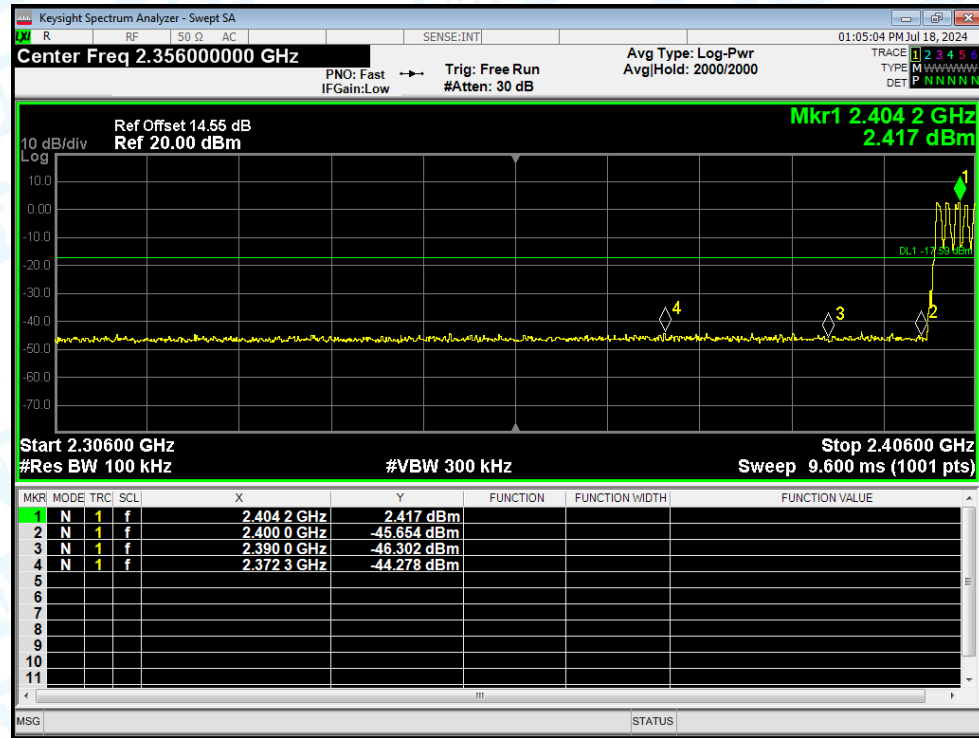
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-46.69	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-47.59	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-46.71	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-47.72	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-46.52	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-47.69	-20	Pass

Test Graphs

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



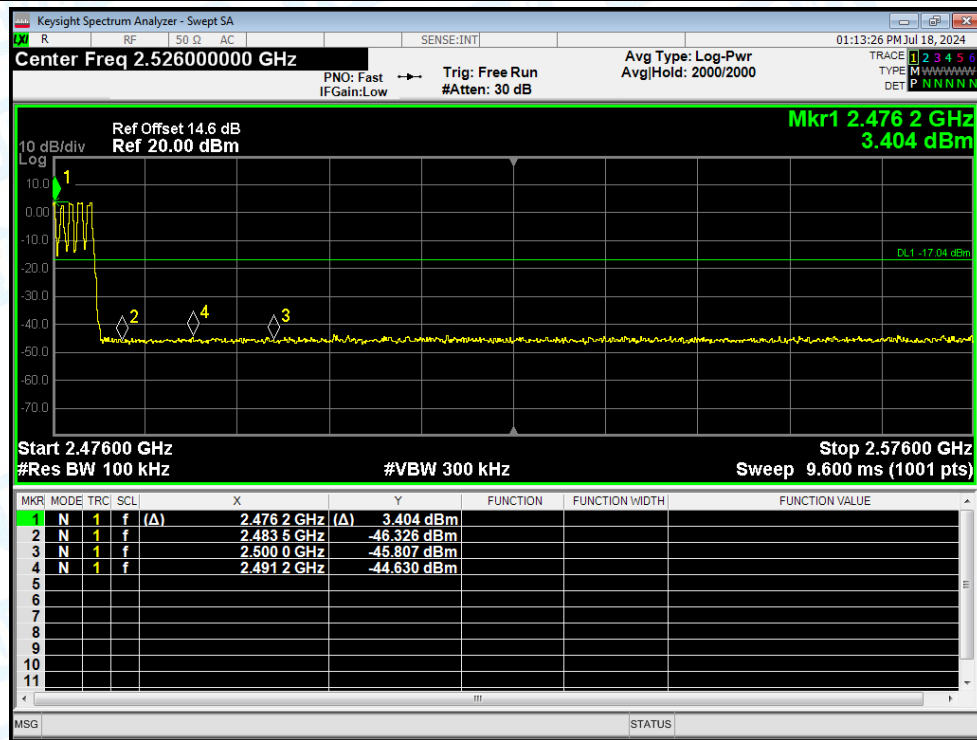
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

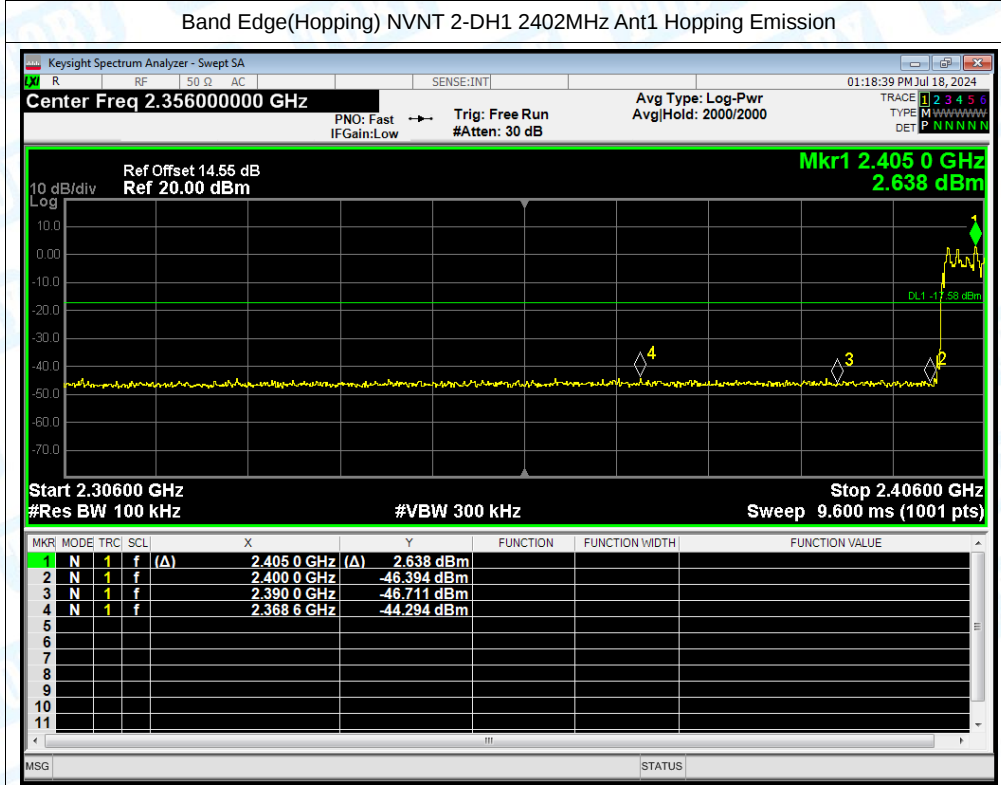
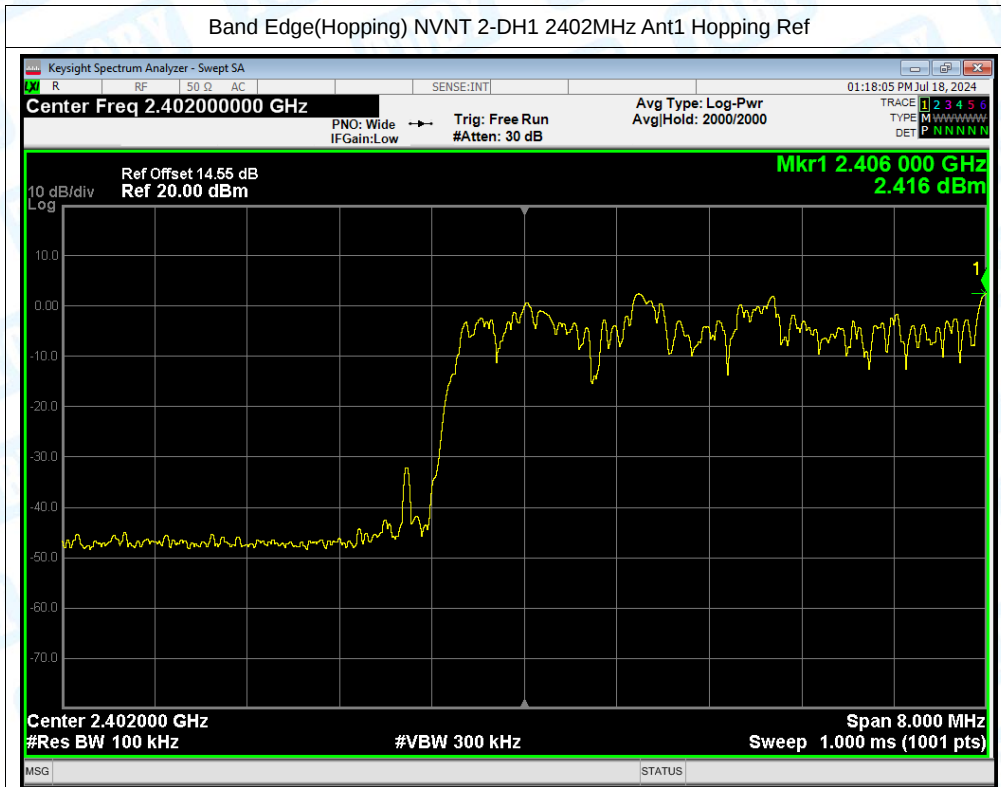


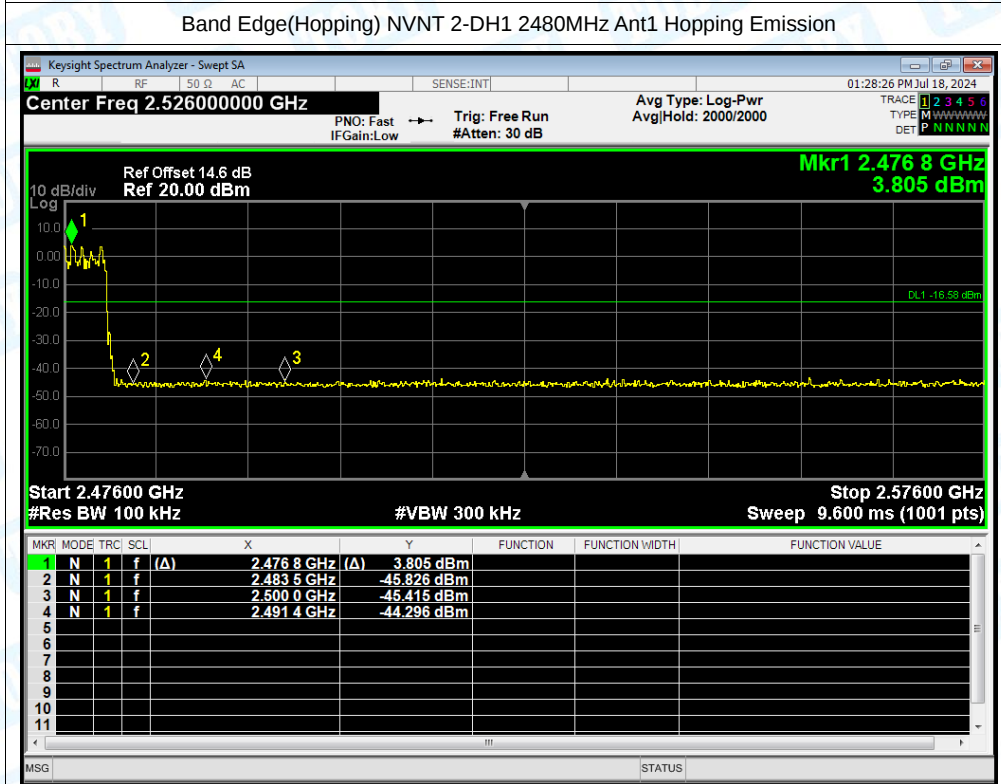
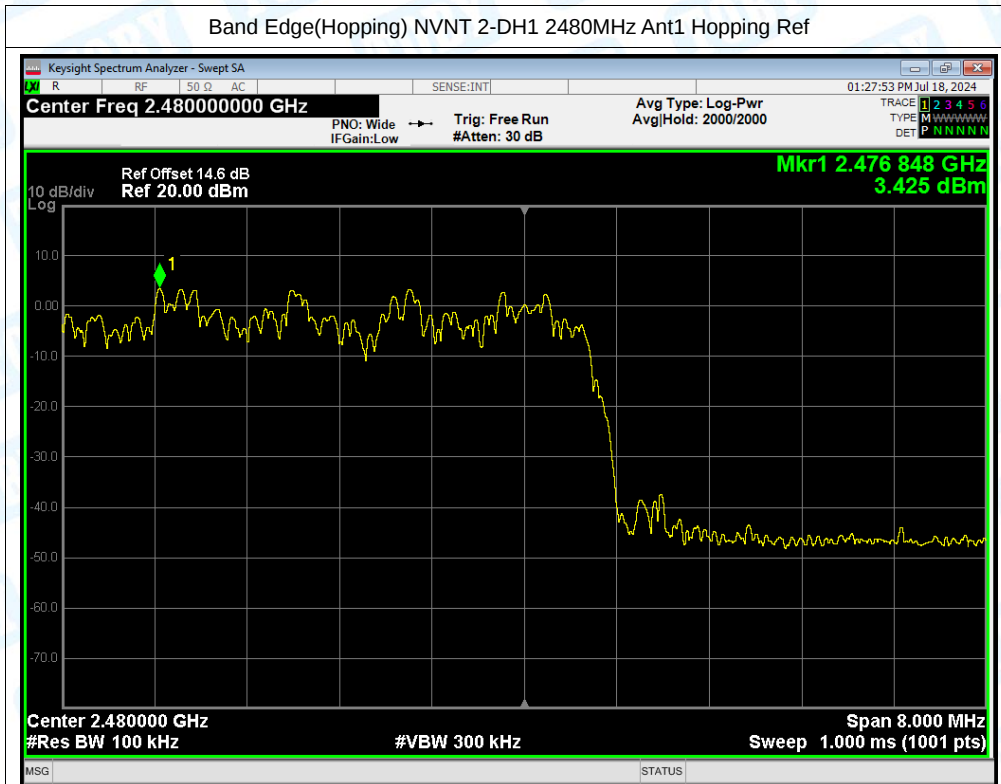
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref

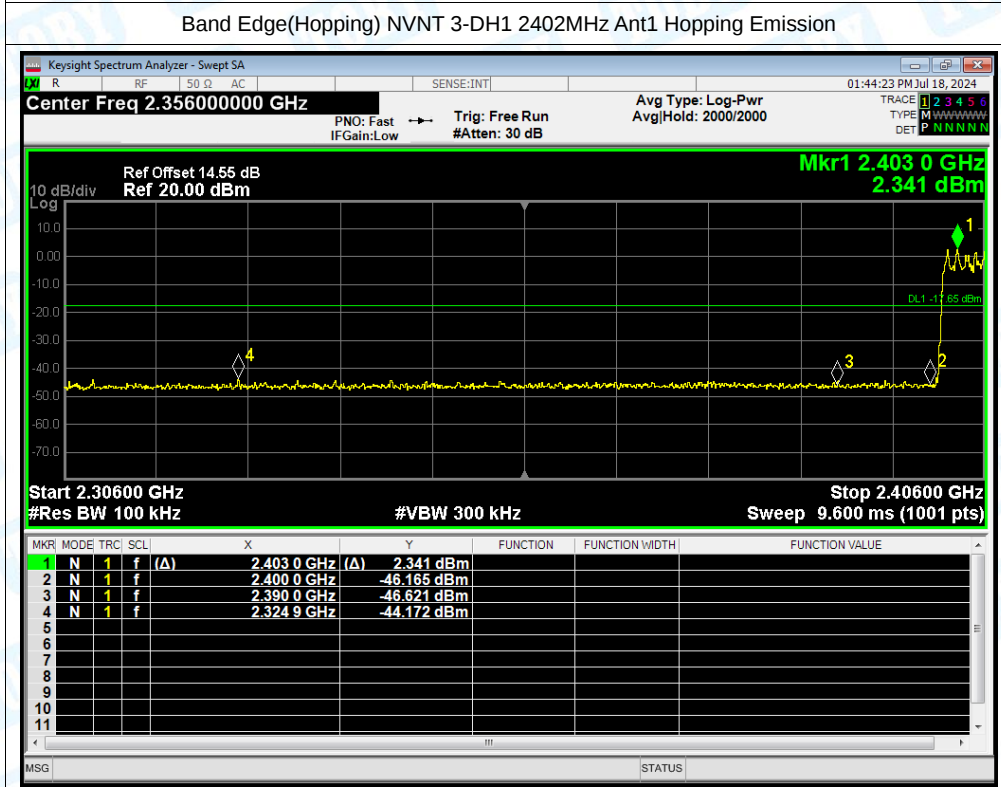
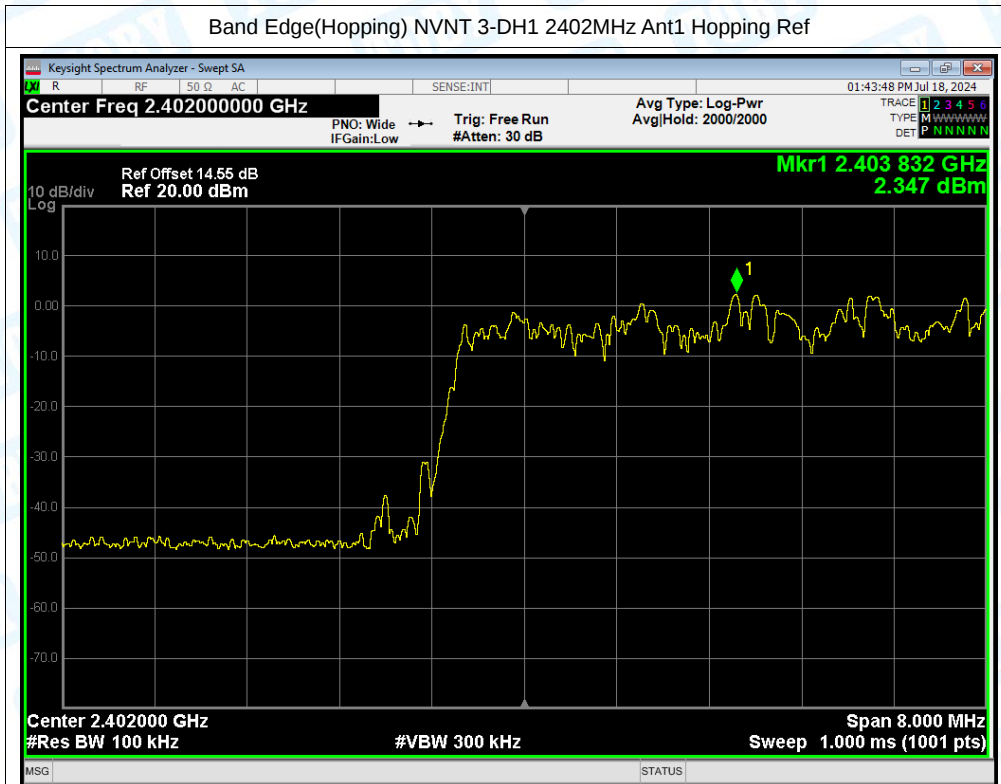


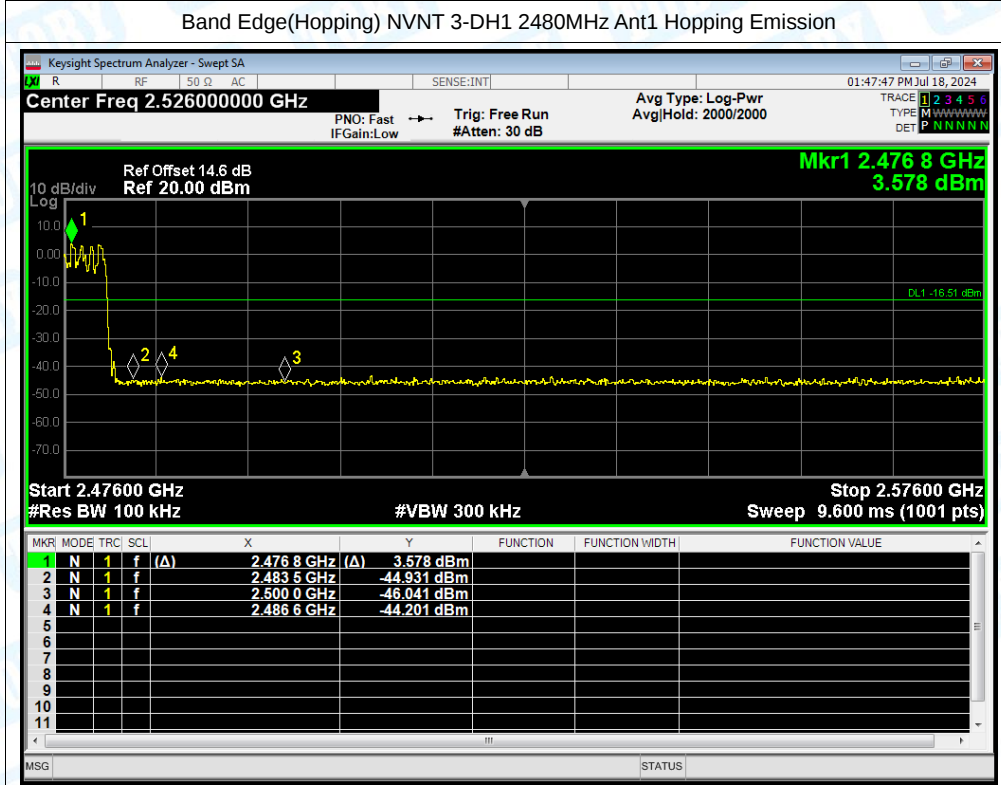
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission









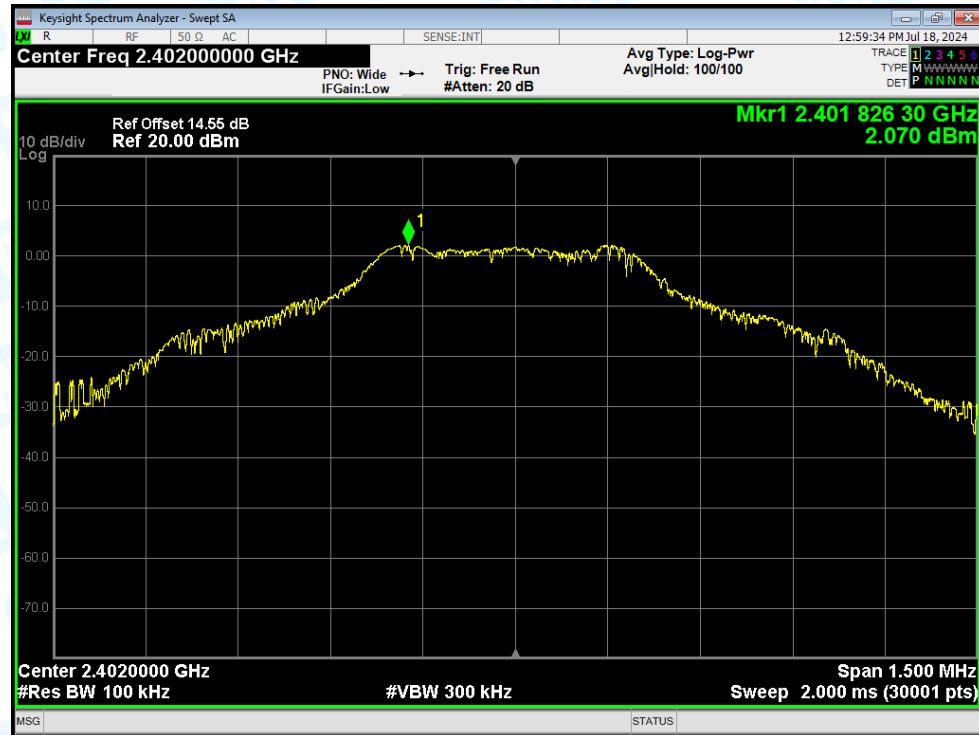


7. Conducted RF Spurious Emission

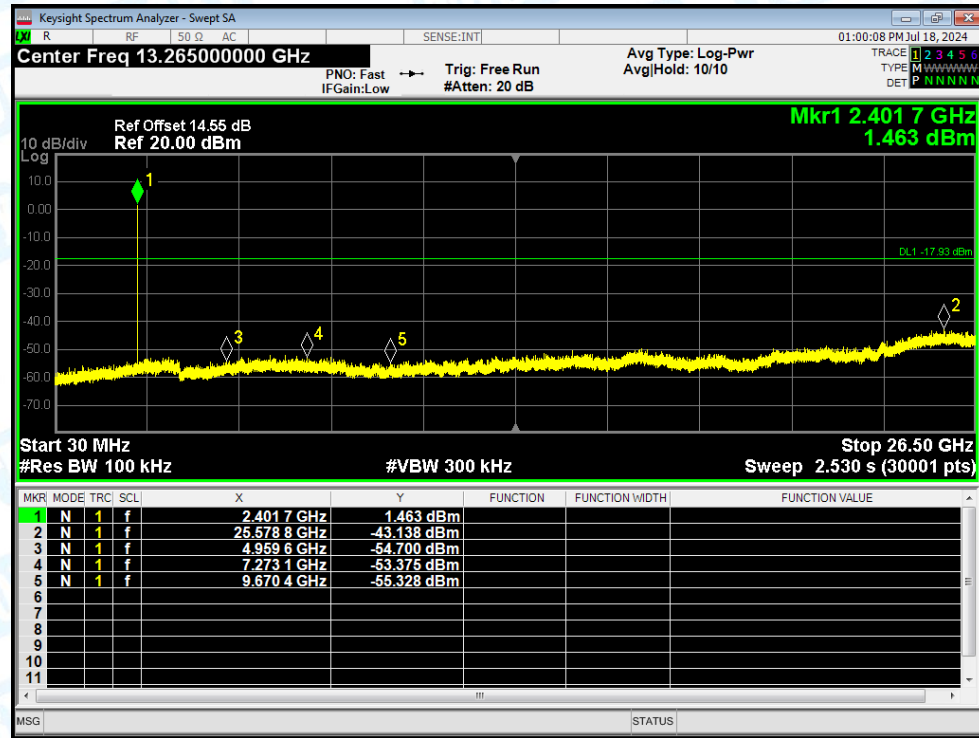
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-45.21	-20	Pass
NVNT	1-DH1	2441	Ant1	-46.65	-20	Pass
NVNT	1-DH1	2480	Ant1	-45.13	-20	Pass
NVNT	2-DH1	2402	Ant1	-45.44	-20	Pass
NVNT	2-DH1	2441	Ant1	-46.49	-20	Pass
NVNT	2-DH1	2480	Ant1	-45.69	-20	Pass
NVNT	3-DH1	2402	Ant1	-44.99	-20	Pass
NVNT	3-DH1	2441	Ant1	-46.72	-20	Pass
NVNT	3-DH1	2480	Ant1	-45.93	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



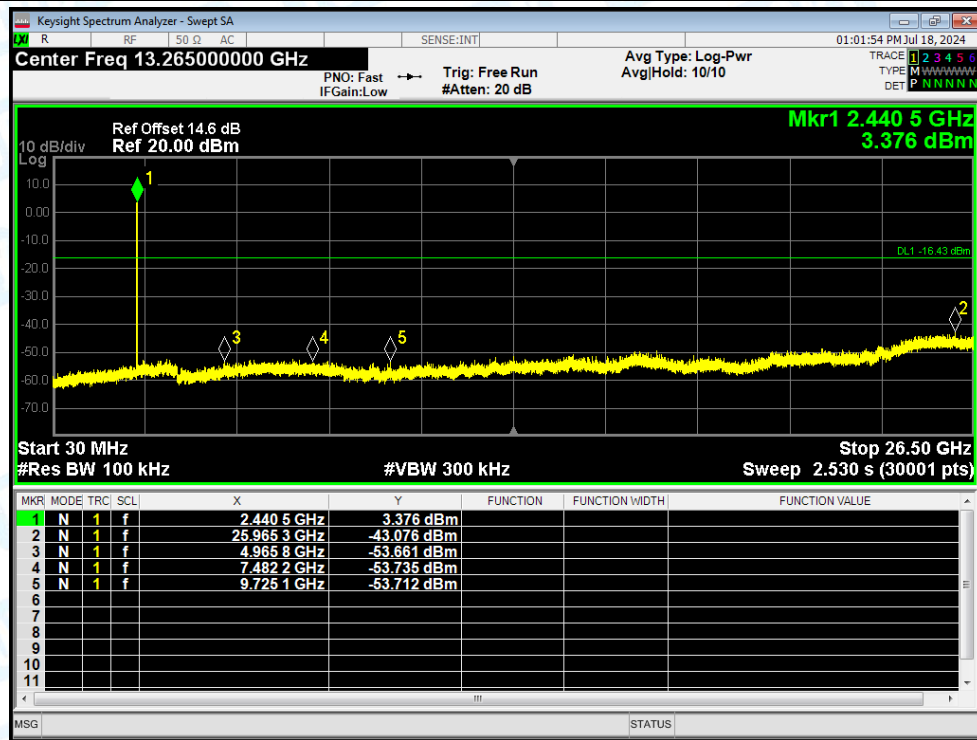
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



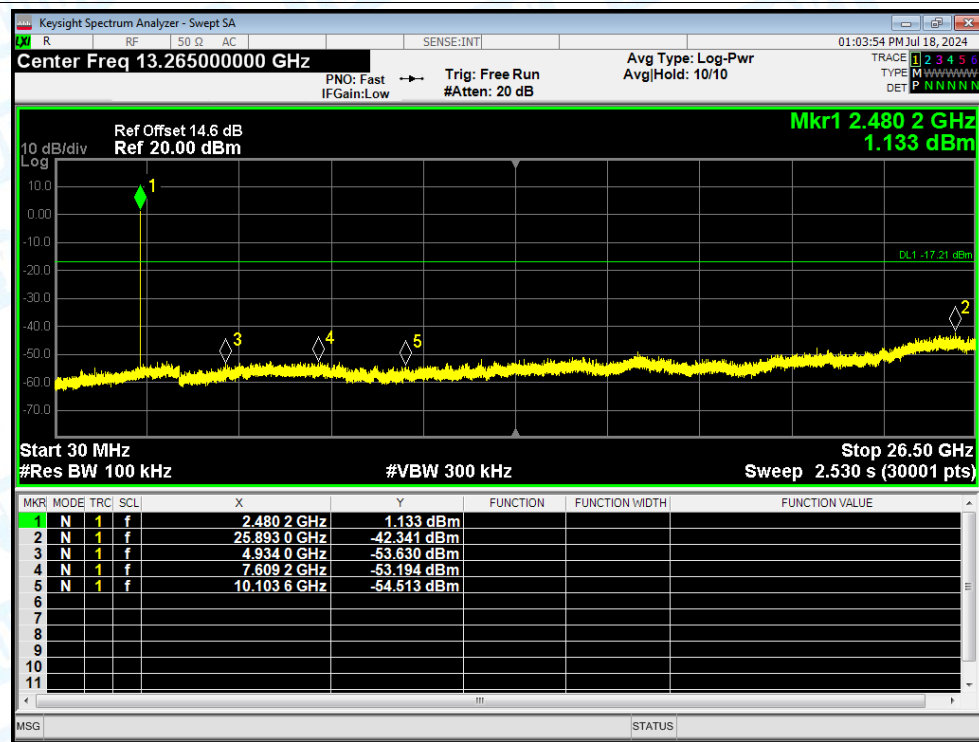
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



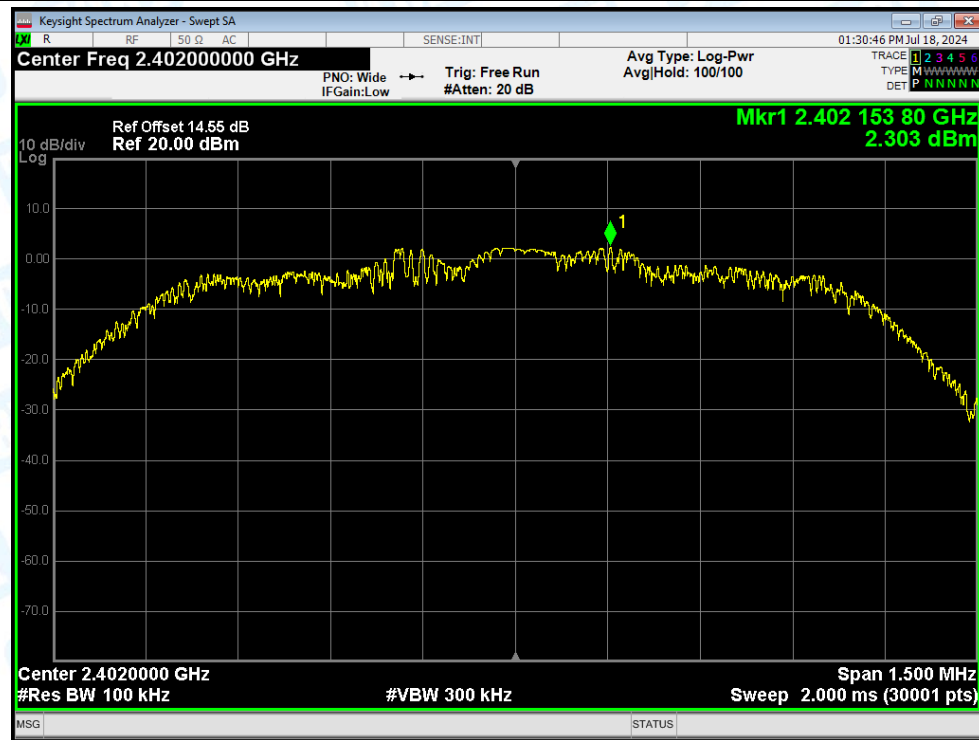
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



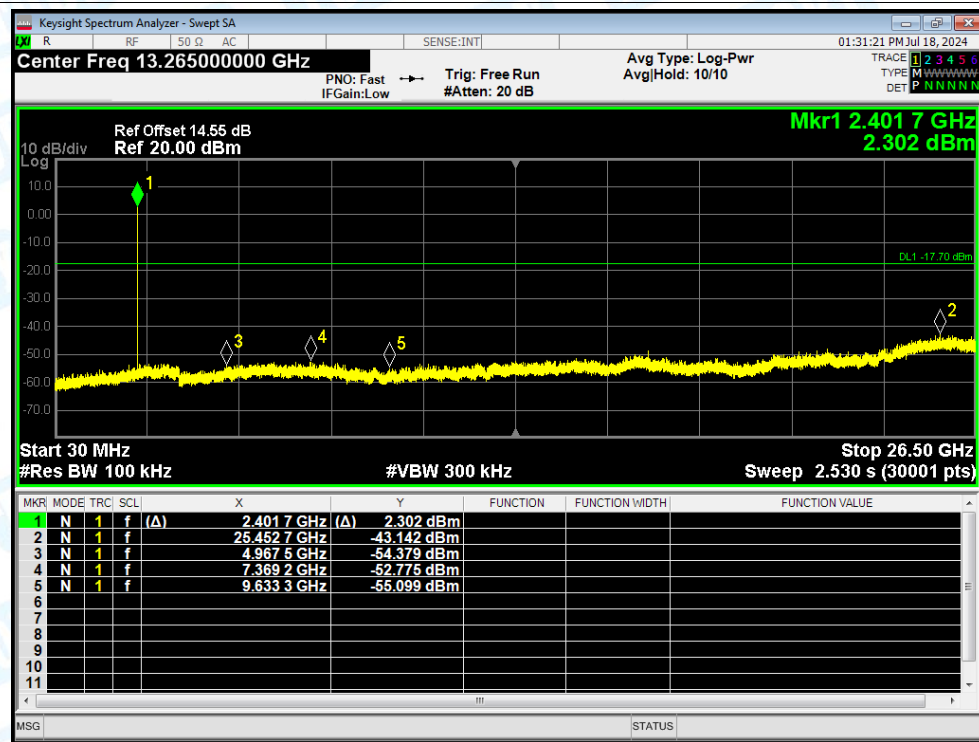
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



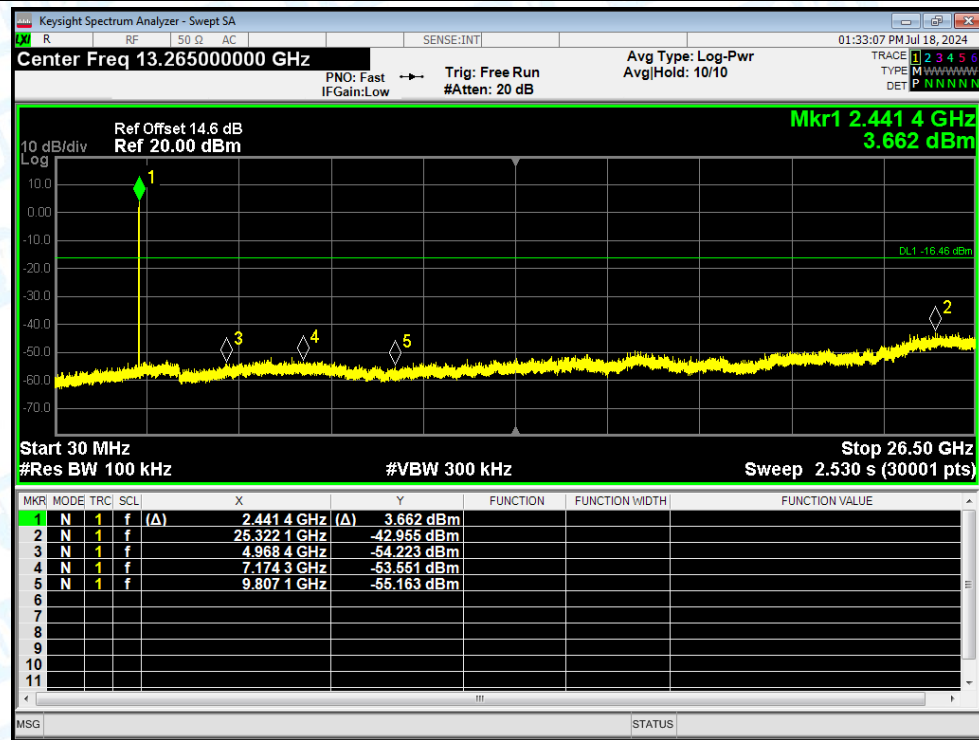
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



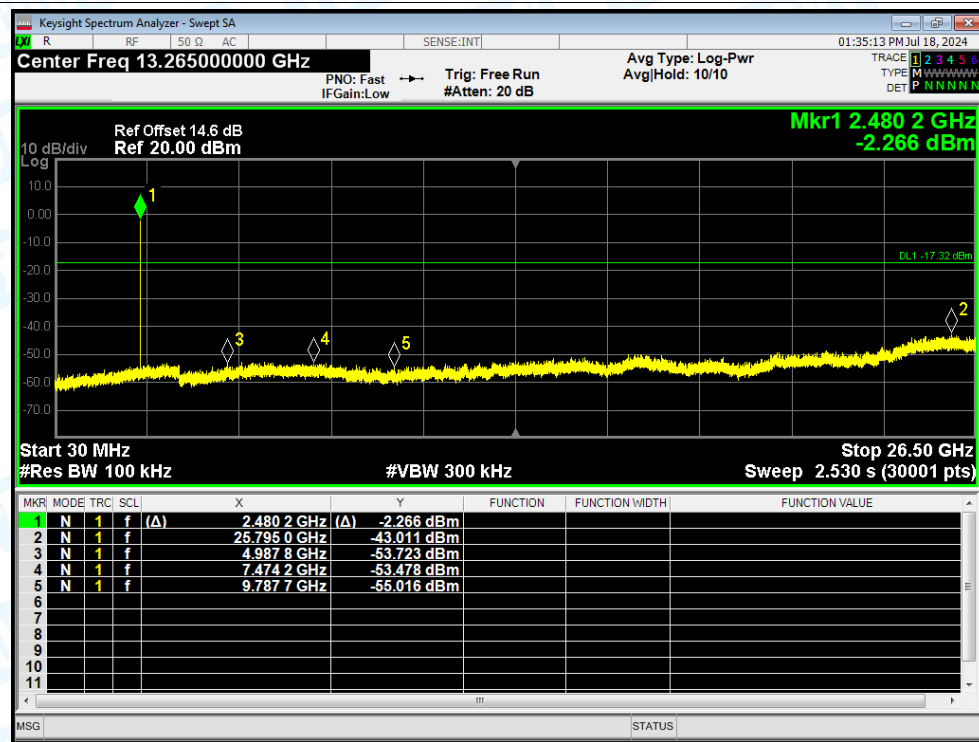
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



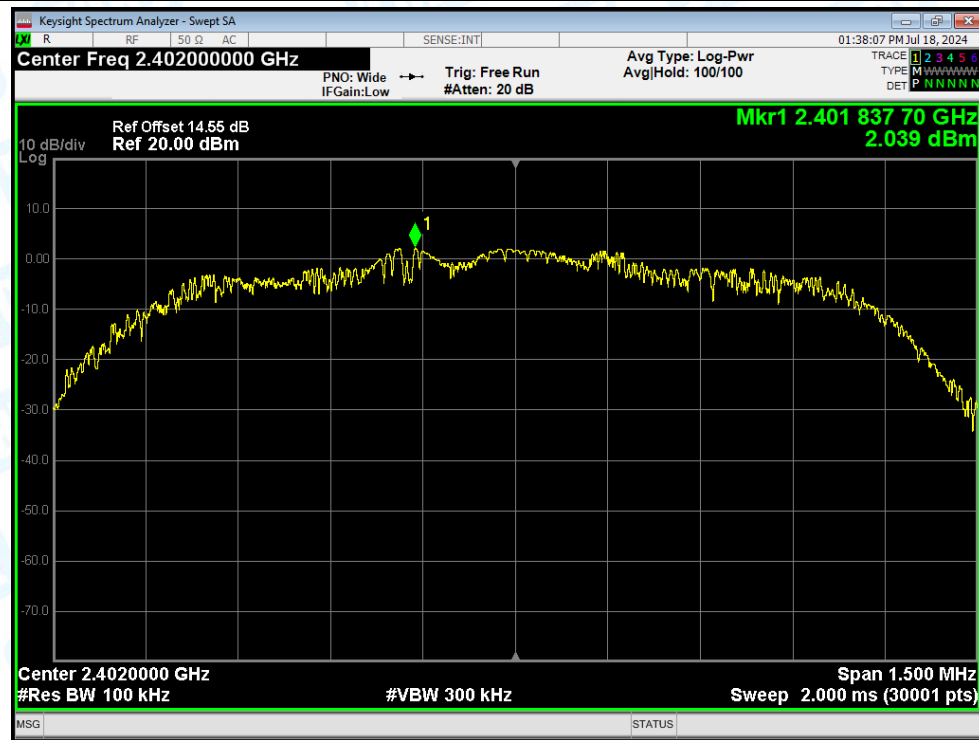
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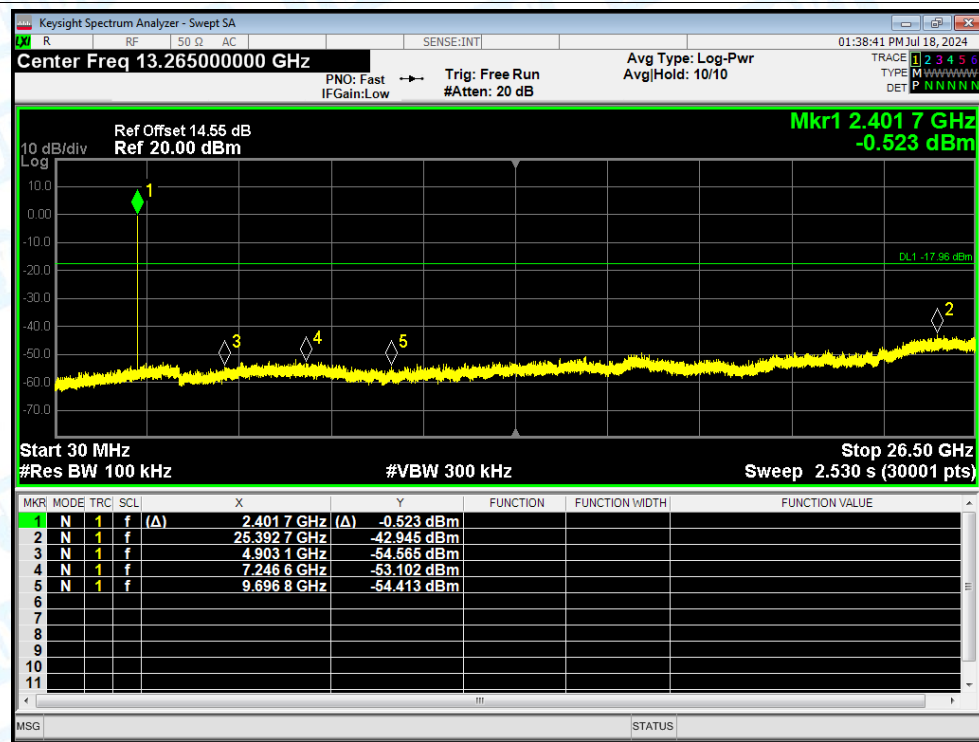
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission



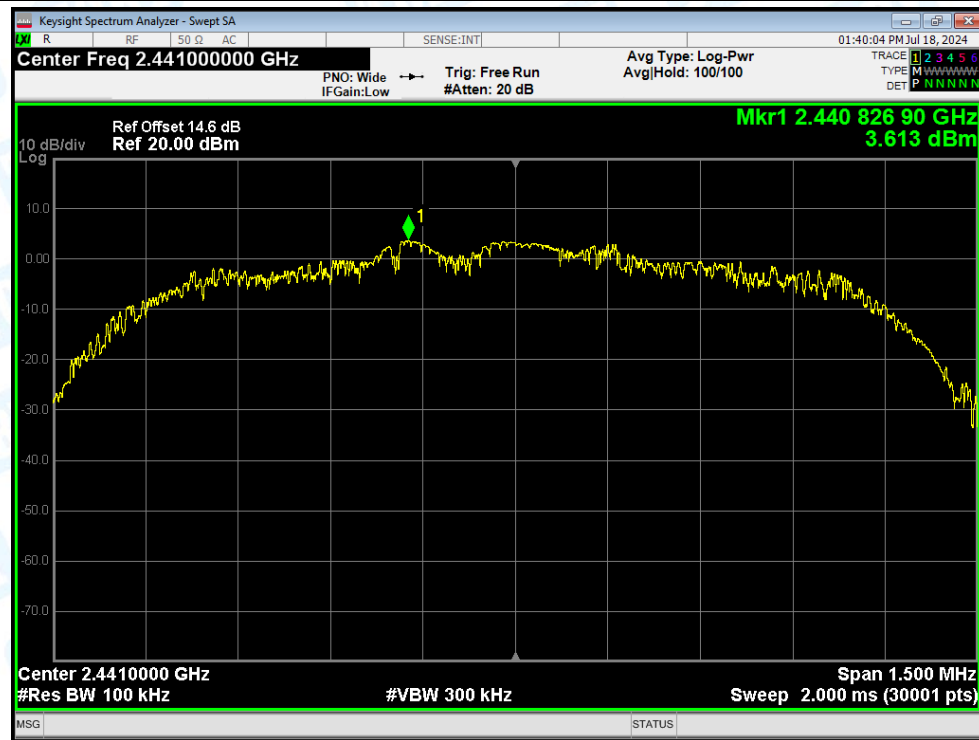
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



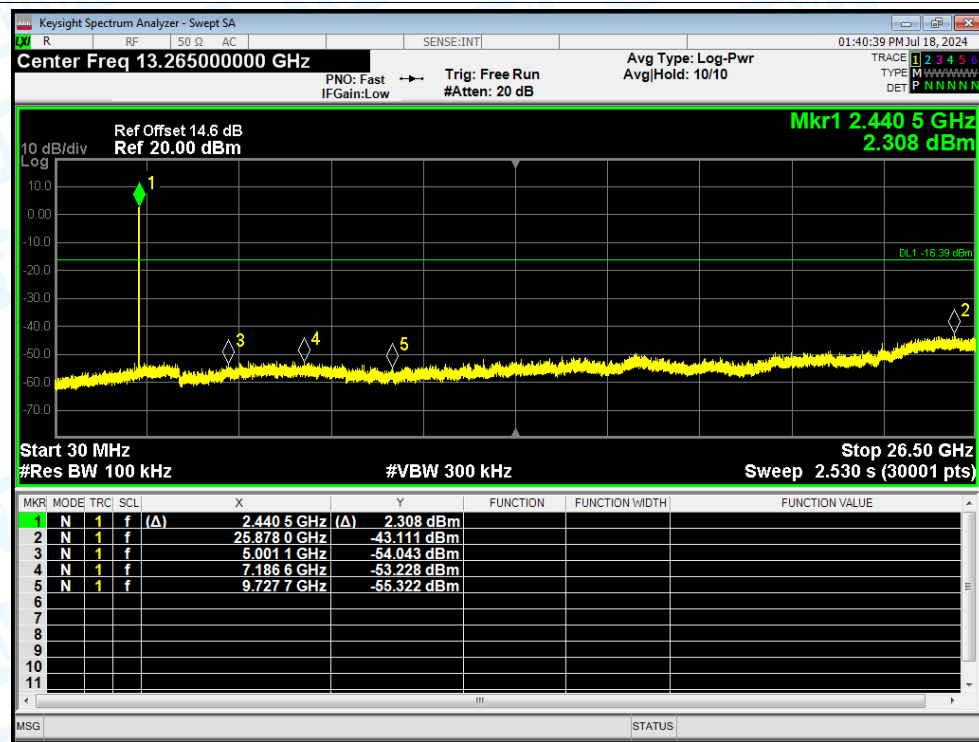
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



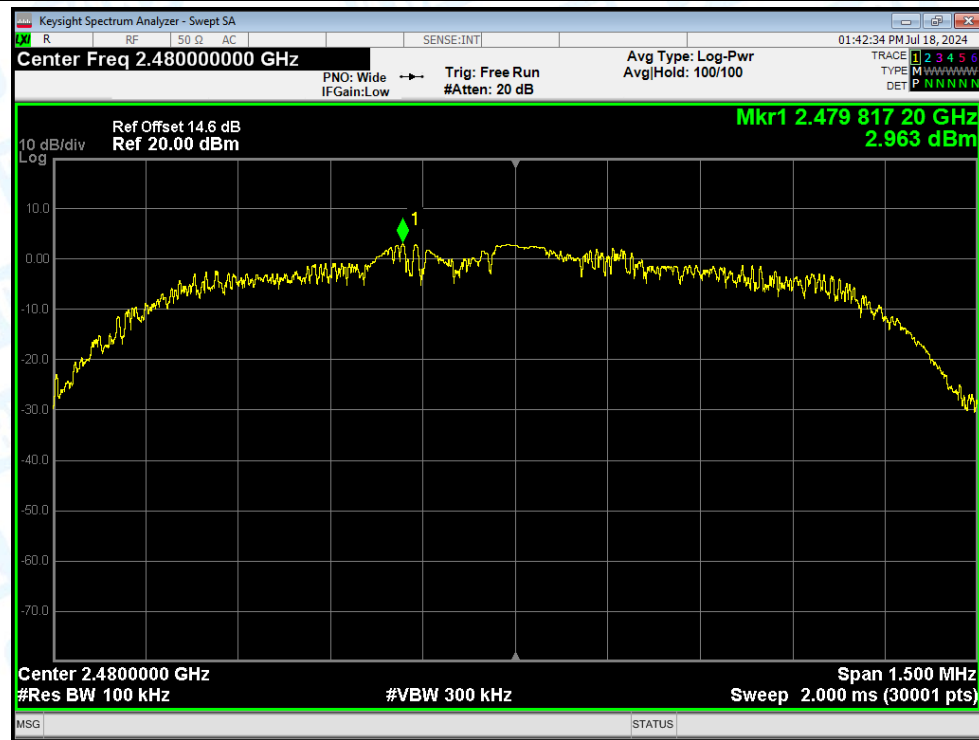
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



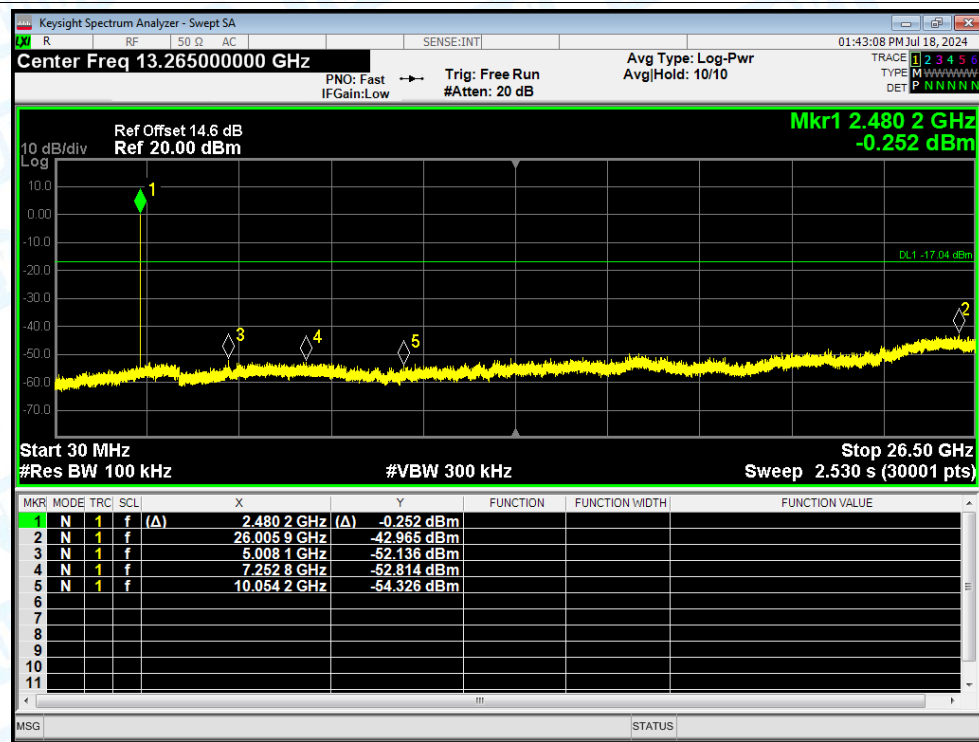
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

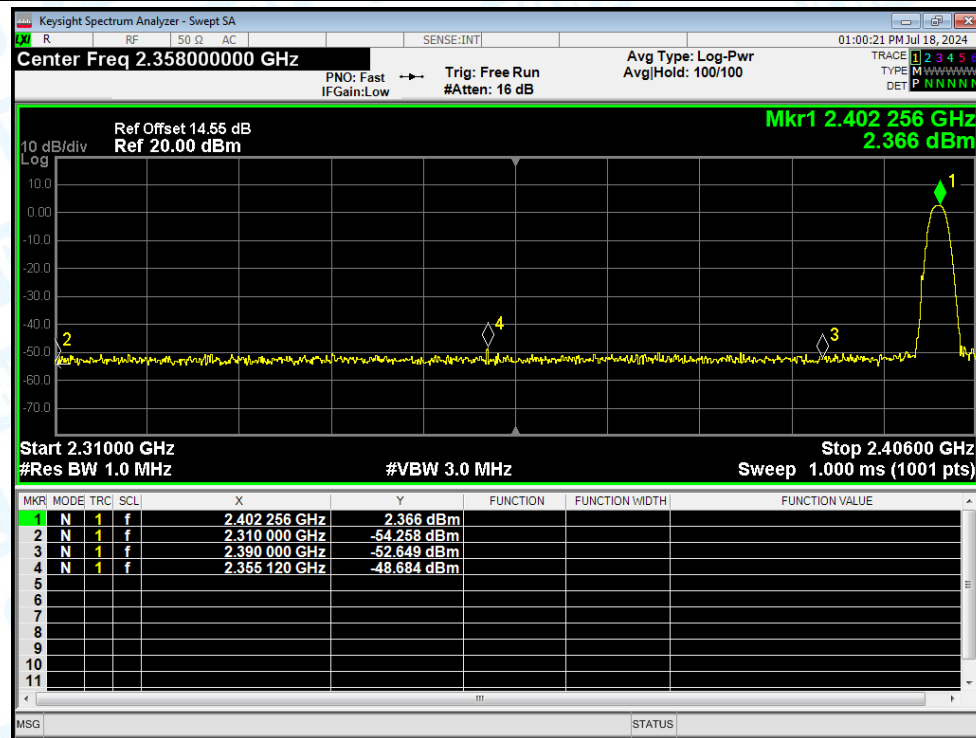


8.Restrict Band

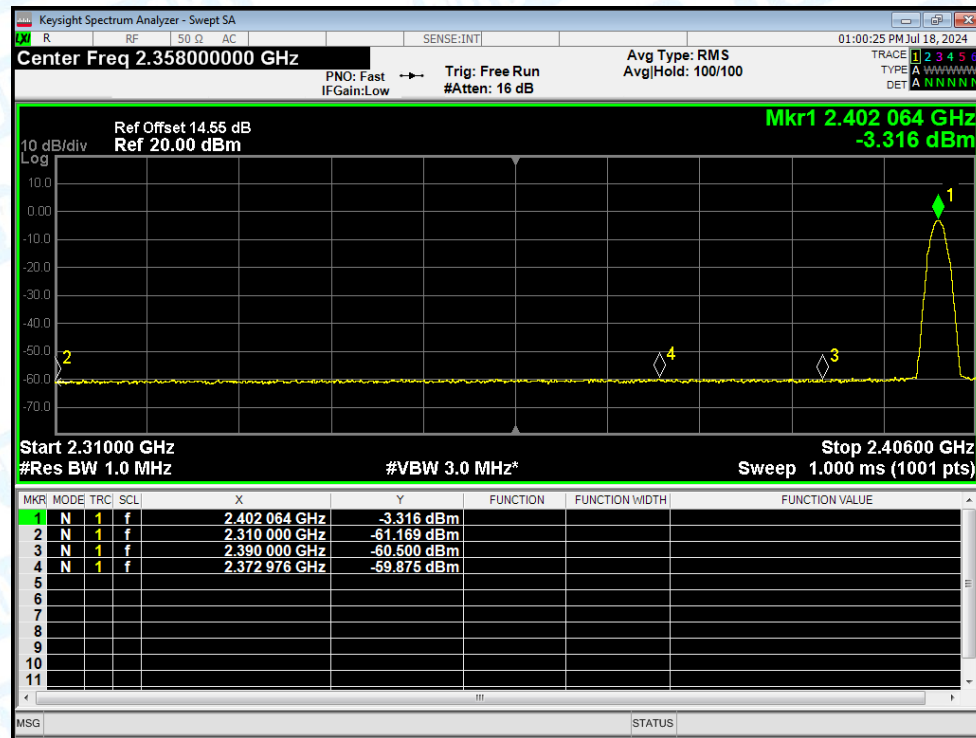
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-54.26	2	-	43	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-61.17	2	4.84	40.93	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2355.12	-48.68	2	-	48.58	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2372.976	-59.87	2	4.84	42.23	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-52.65	2	-	44.61	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-60.5	2	4.84	41.6	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-47.88	2	-	49.38	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-55.8	2	4.84	46.3	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2485.888	-45.14	2	-	52.12	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.632	-55.17	2	4.84	46.93	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-47.11	2	-	50.15	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-56.08	2	4.84	46.02	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-47.85	2	-	49.41	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-56.52	2	4.95	45.69	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2346.384	-45.88	2	-	51.38	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2359.92	-55.9	2	4.95	46.31	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-47.89	2	-	49.37	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-56.97	2	4.95	45.24	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-47.27	2	-	49.99	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-54.86	2	4.95	47.35	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.752	-43.46	2	-	53.8	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.512	-54.86	2	4.95	47.35	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-47.39	2	-	49.87	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-56.25	2	4.95	45.96	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-49.16	2	-	48.1	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-57.46	2	4.95	44.75	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2360.688	-45.41	2	-	51.85	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2369.136	-55.63	2	4.95	46.58	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-48.95	2	-	48.31	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-56.64	2	4.95	45.57	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-42.9	2	-	54.36	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-55.44	2	5.06	46.88	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.56	-41.2	2	-	56.06	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.584	-54.61	2	5.06	47.71	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-46.58	2	-	50.68	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-55.87	2	5.06	46.45	Average	54	Pass

Test Graphs

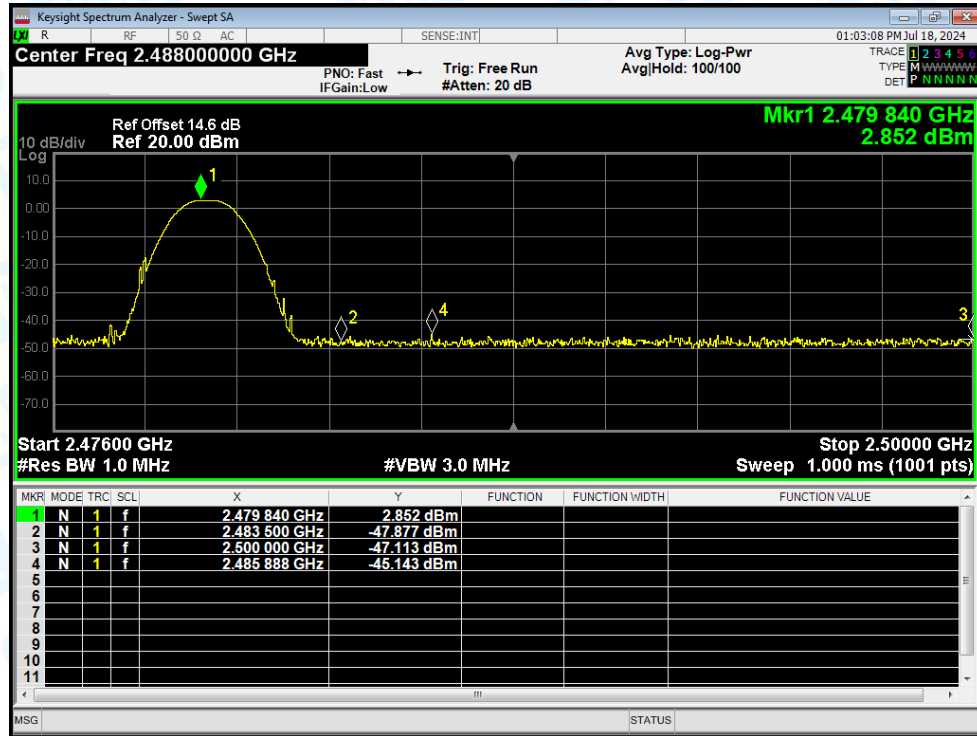
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



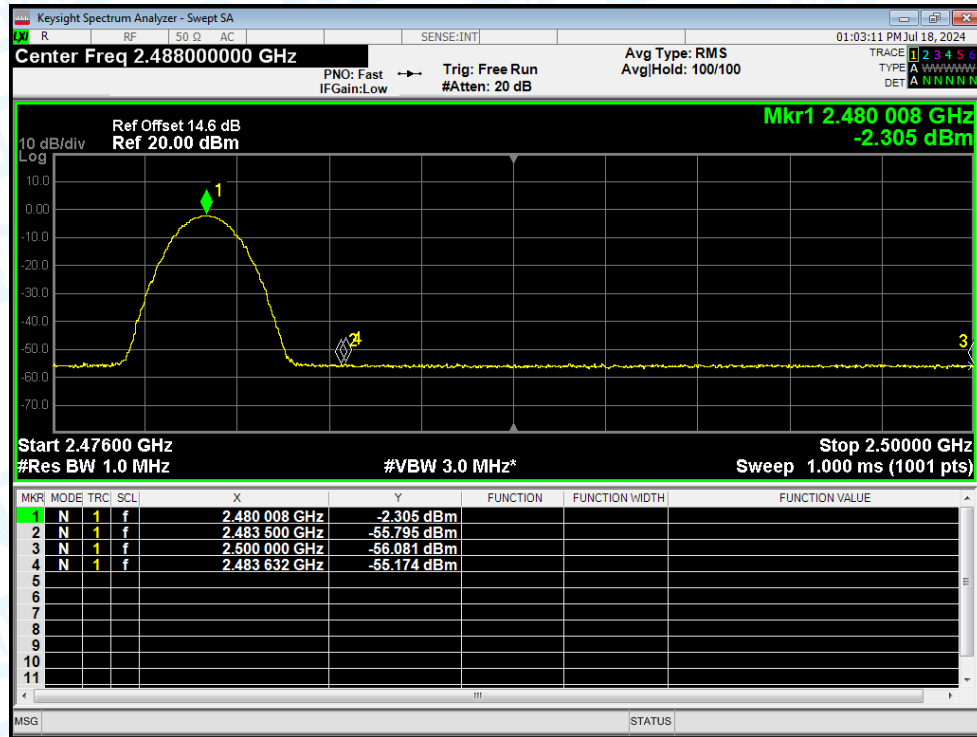
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



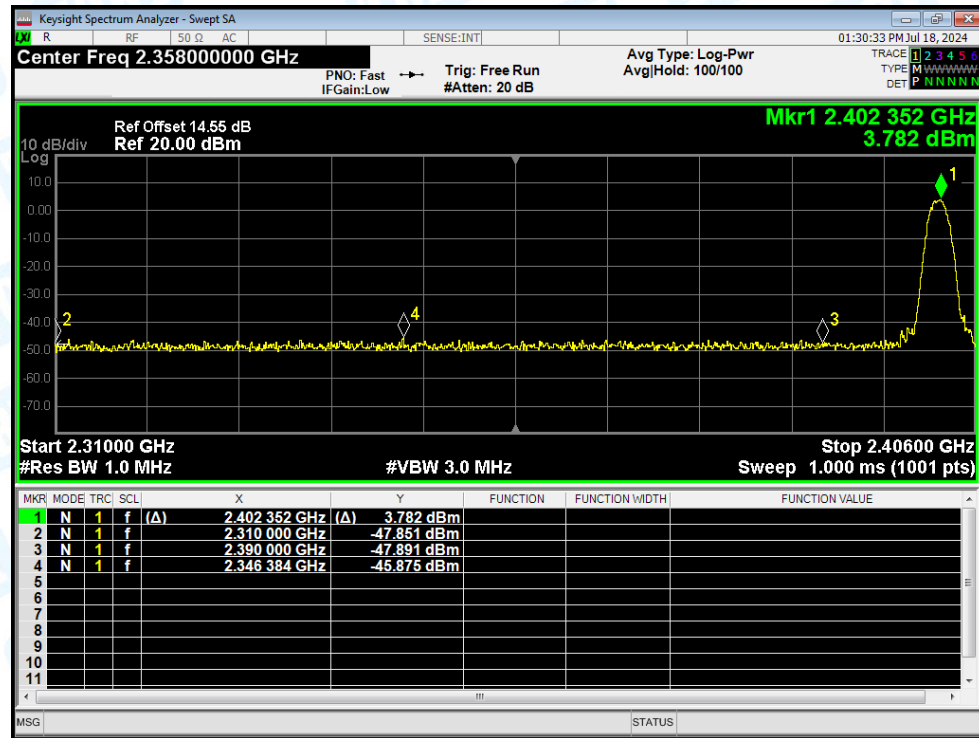
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



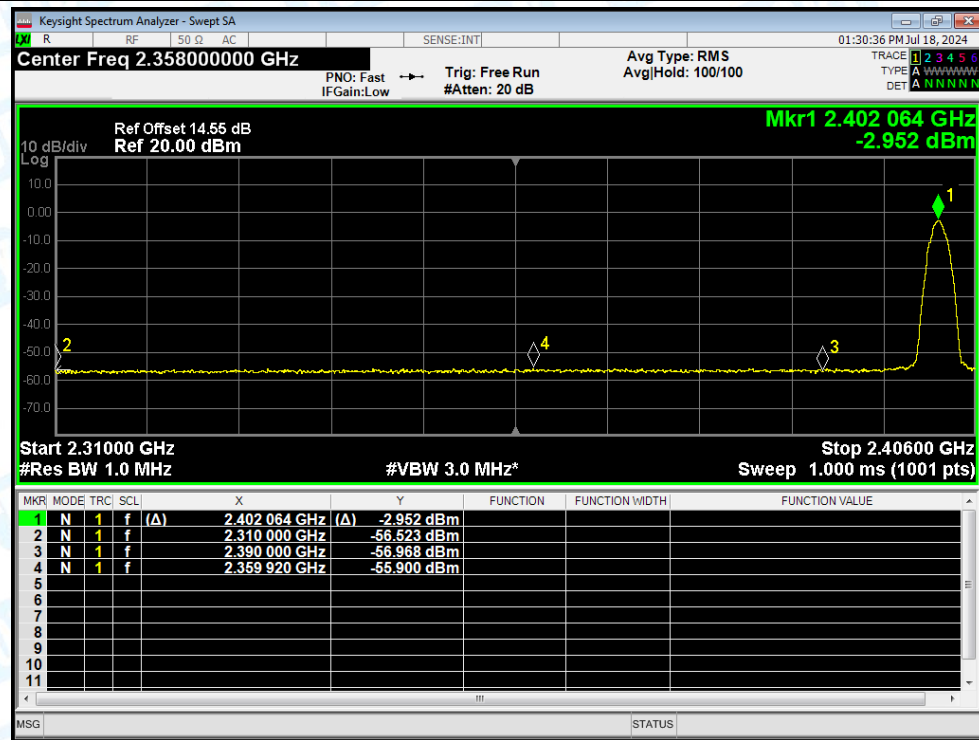
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



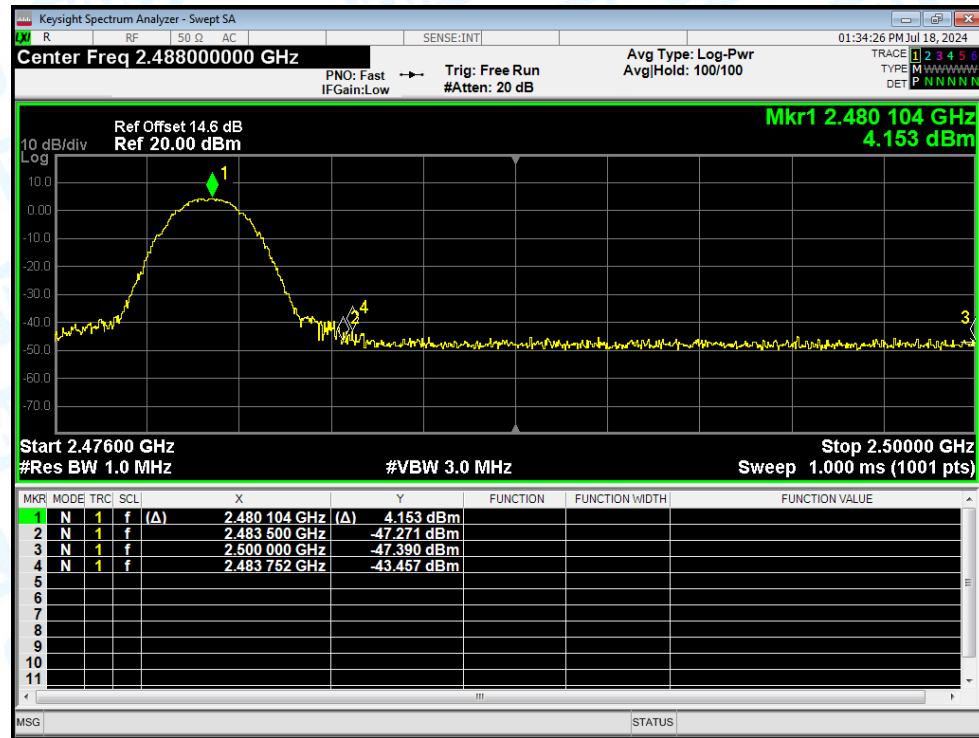
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



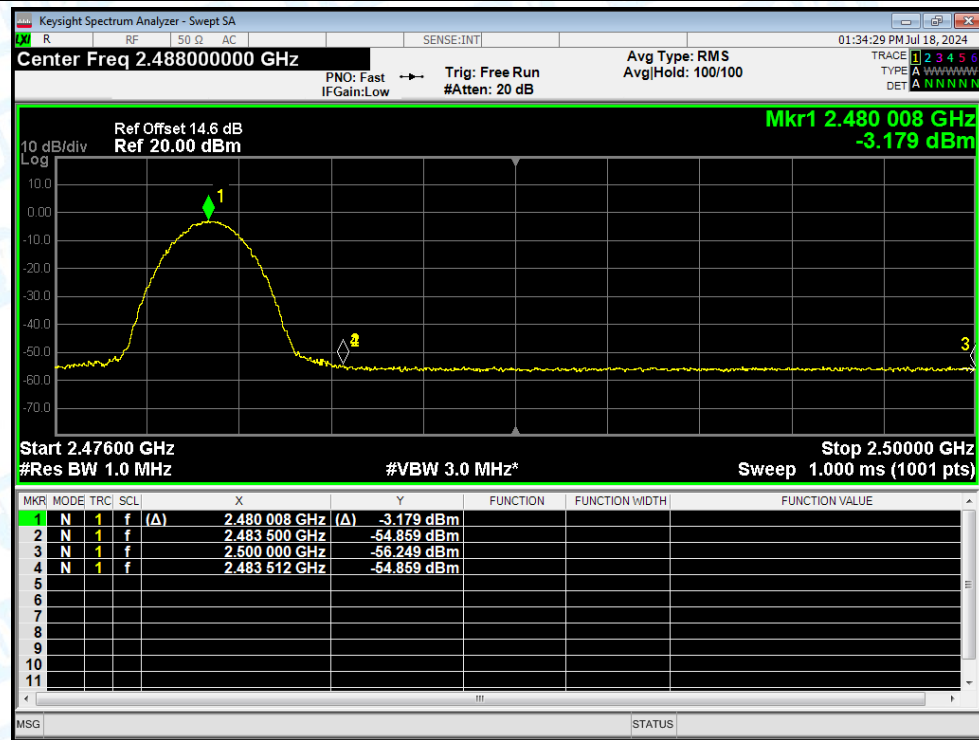
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



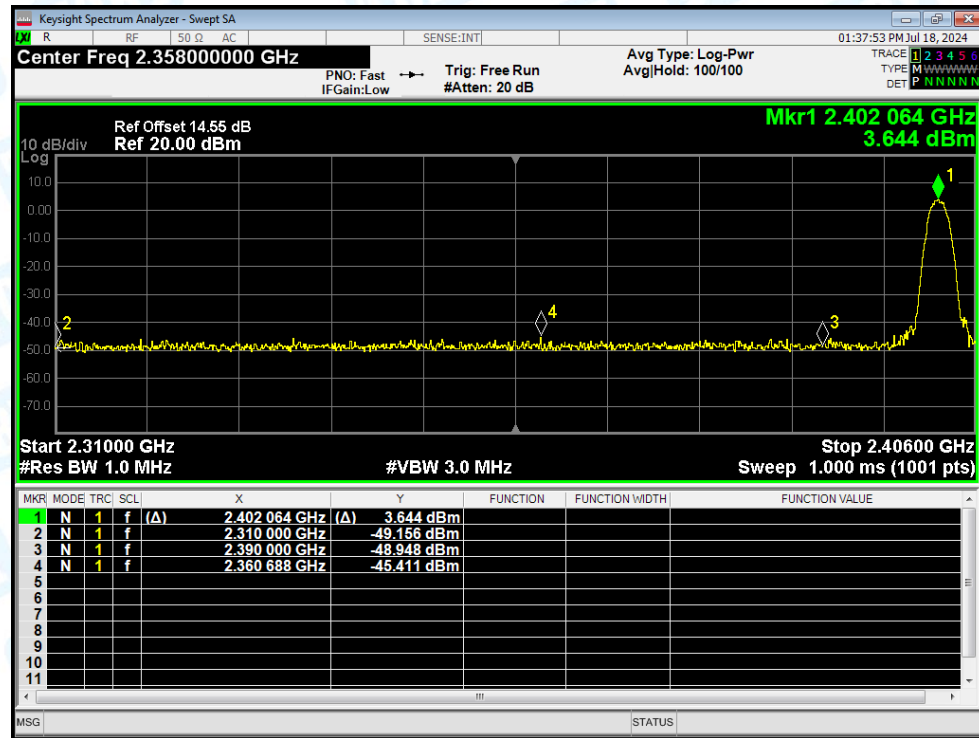
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



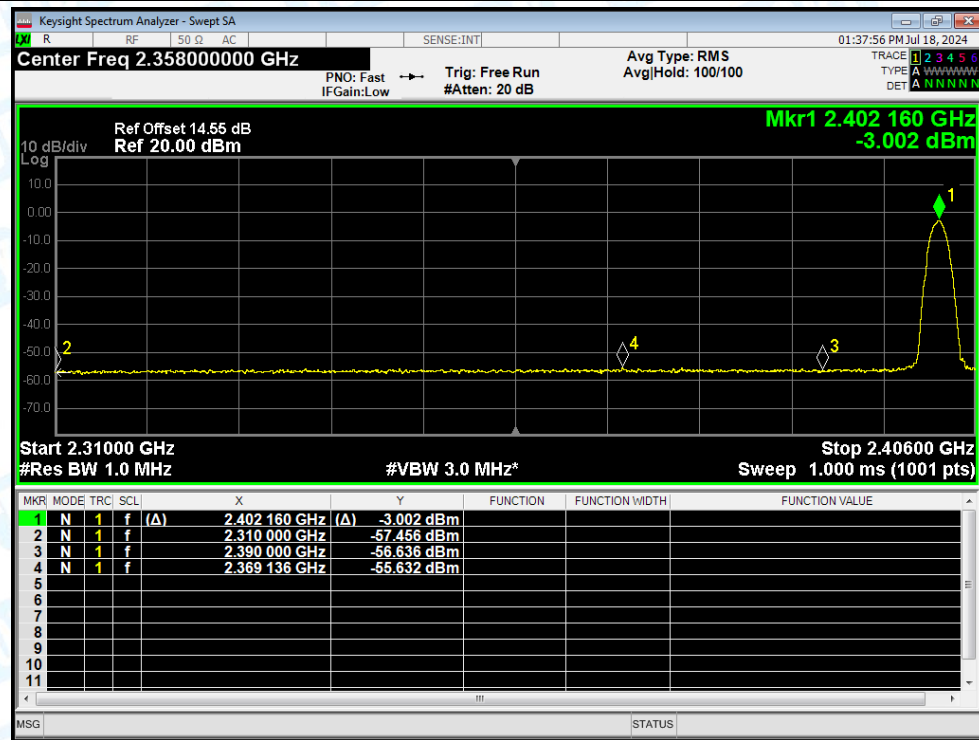
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



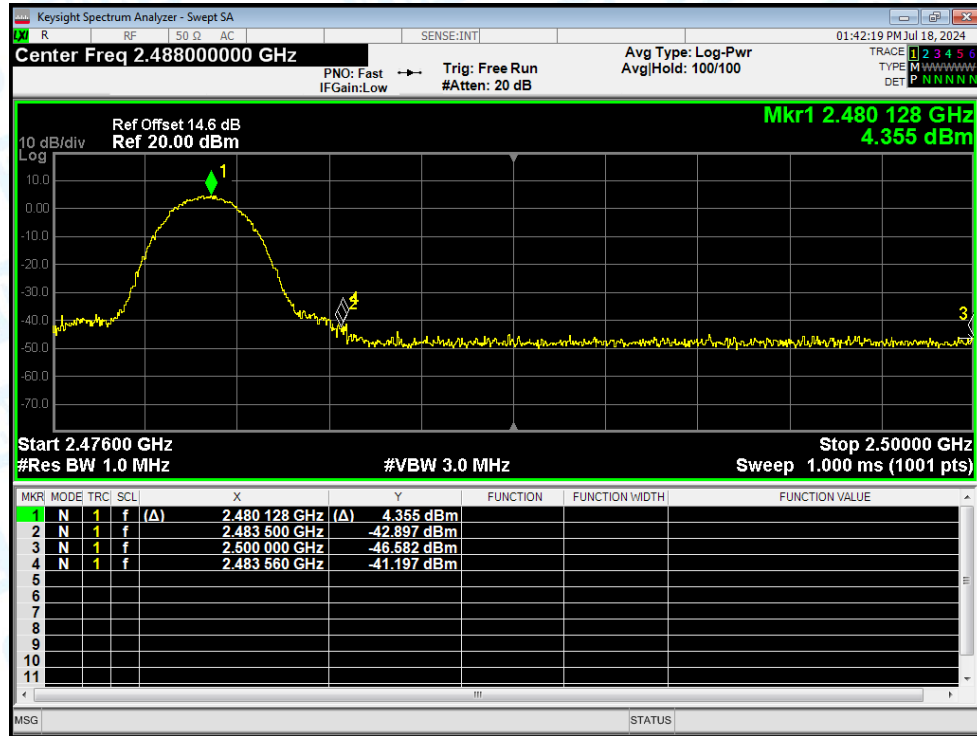
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



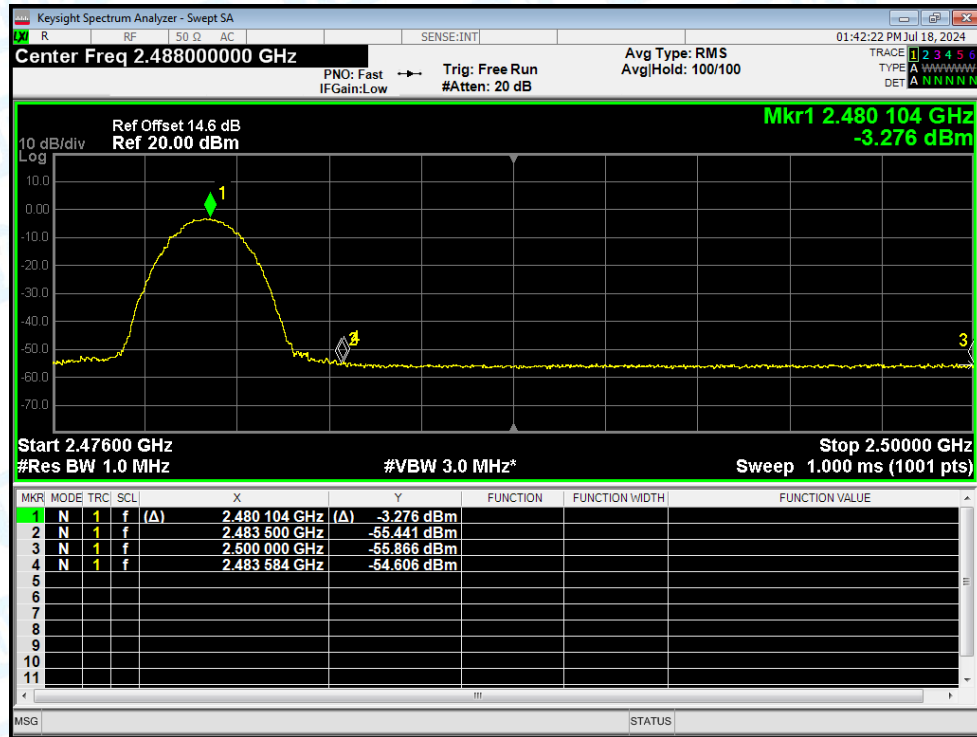
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

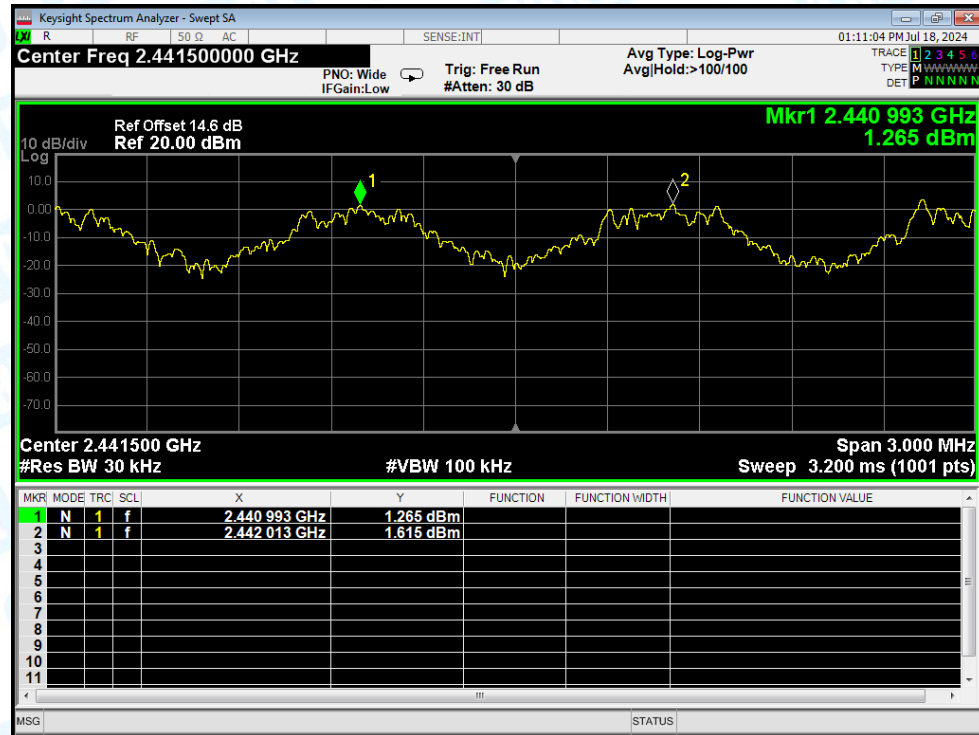


9.Carrier Frequencies Separation

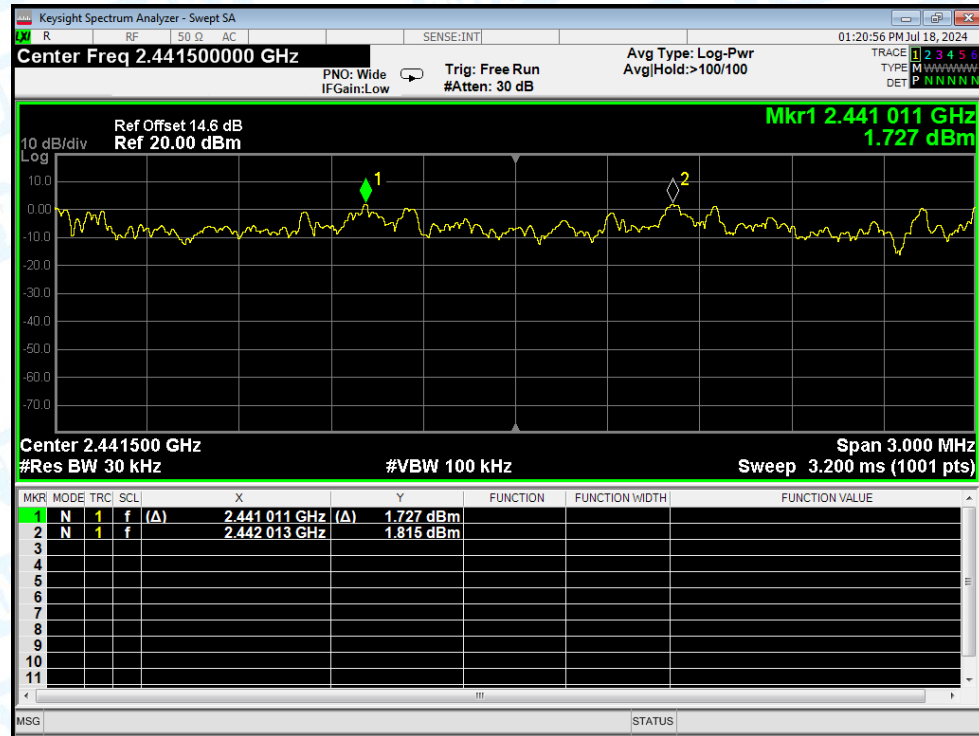
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.993	2442.013	1.02	0.62	Pass
NVNT	2-DH1	Ant1	2441.011	2442.013	1.002	0.025	Pass
NVNT	3-DH1	Ant1	2441.008	2442.022	1.014	0.84	Pass

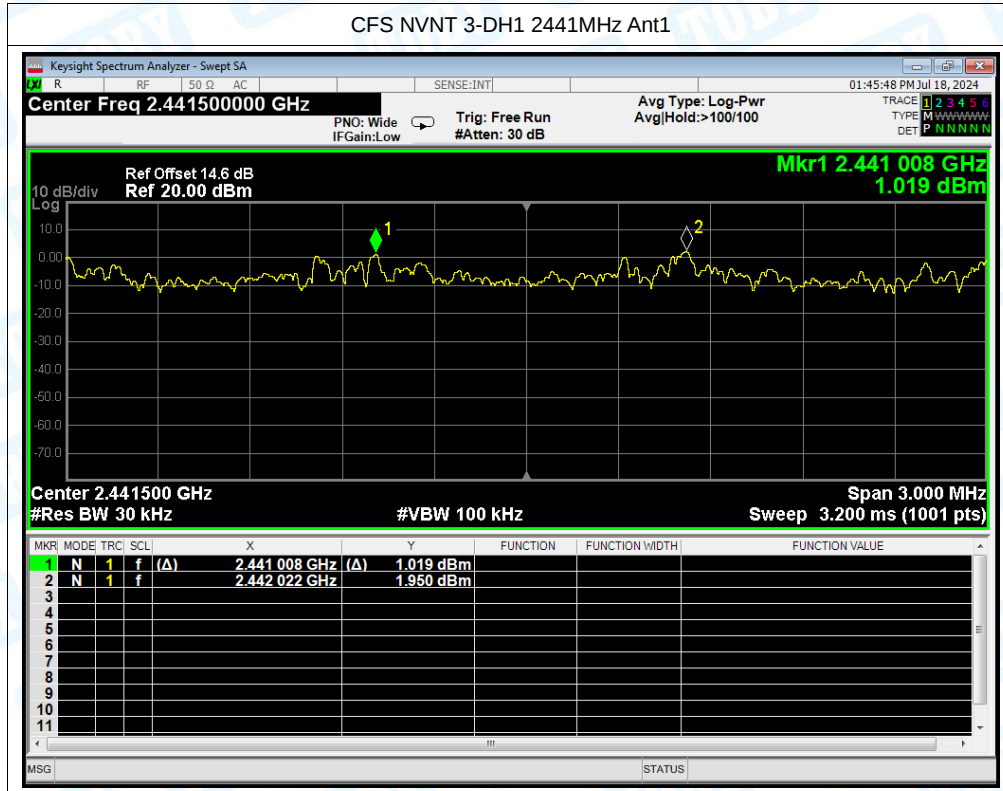
Test Graphs

CFS NVNT 1-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2441MHz Ant1



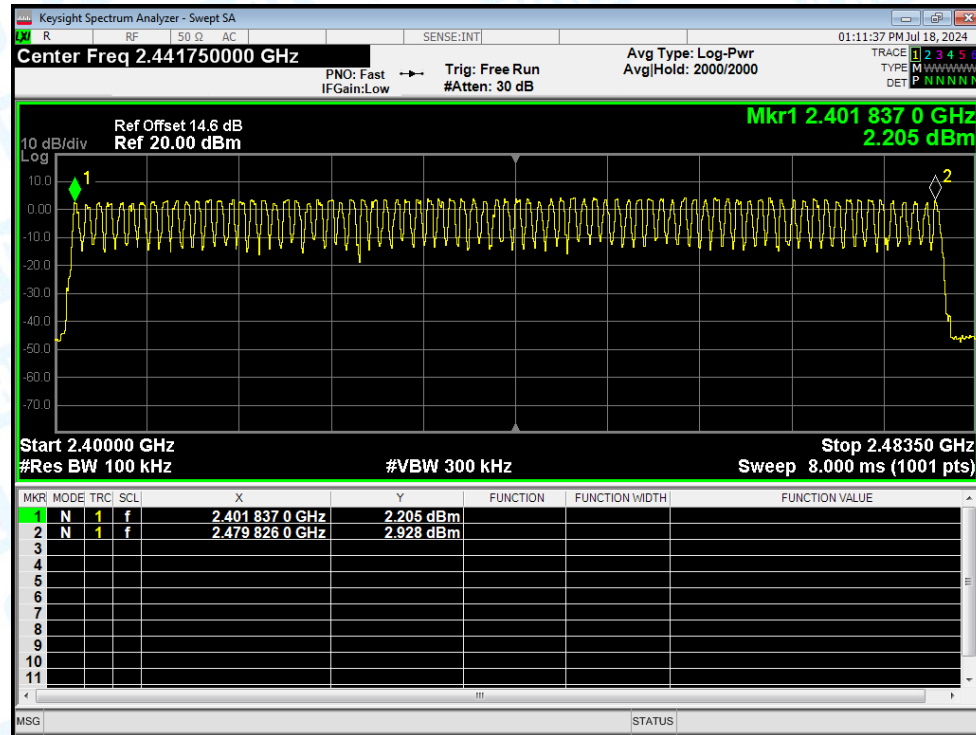


10.Number of Hopping Channel

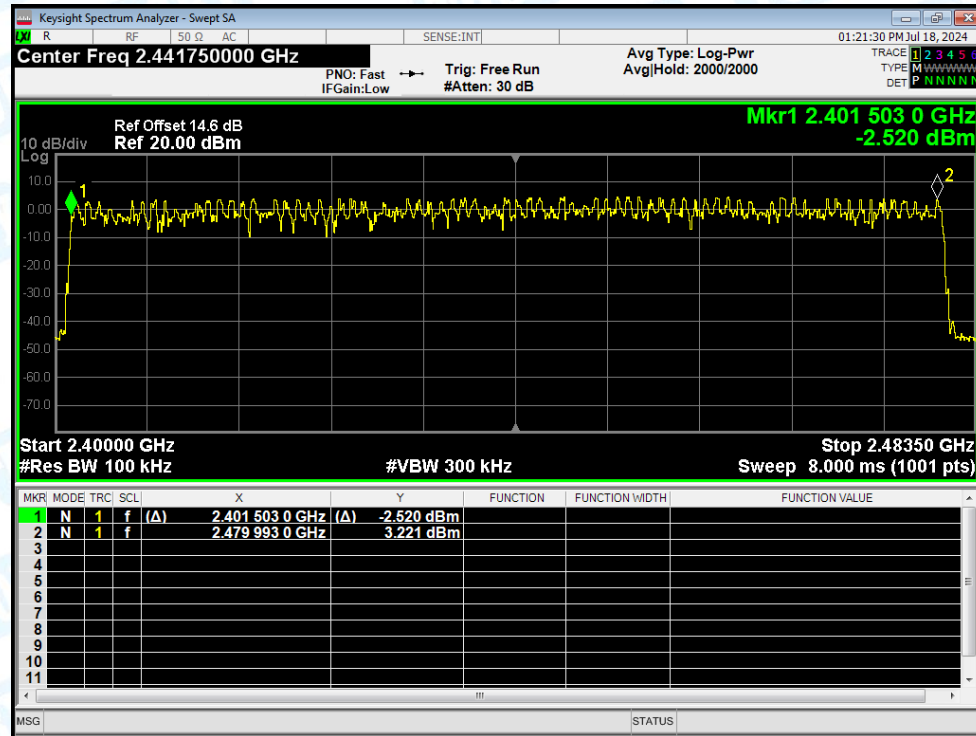
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass

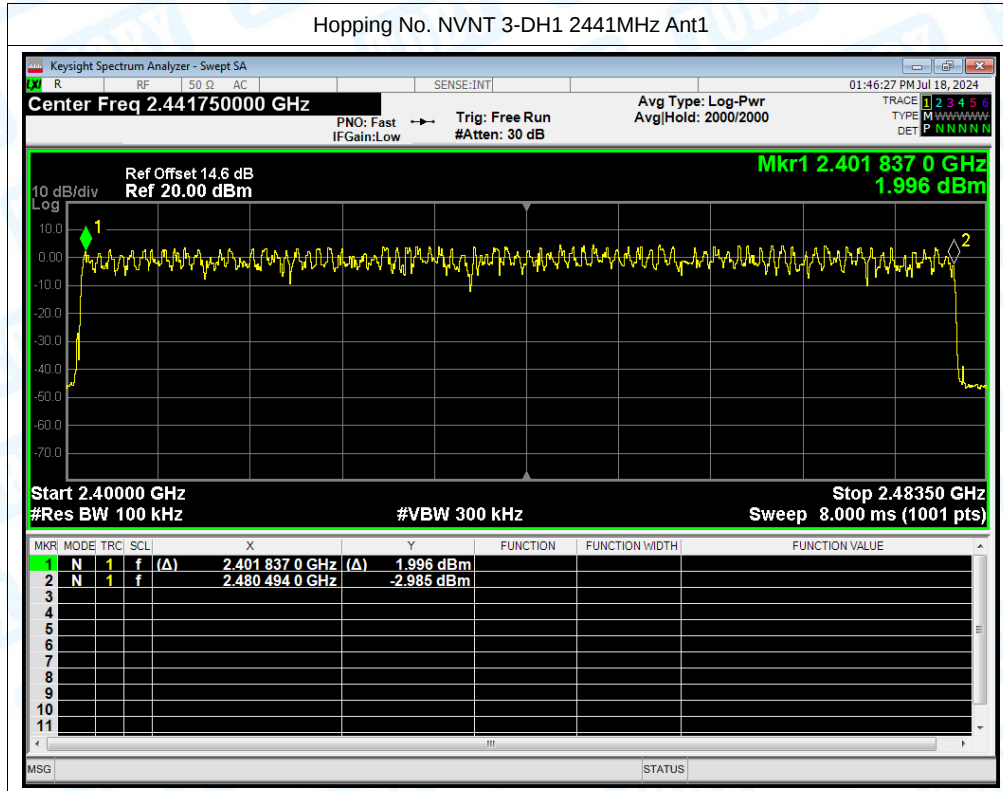
Test Graphs

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



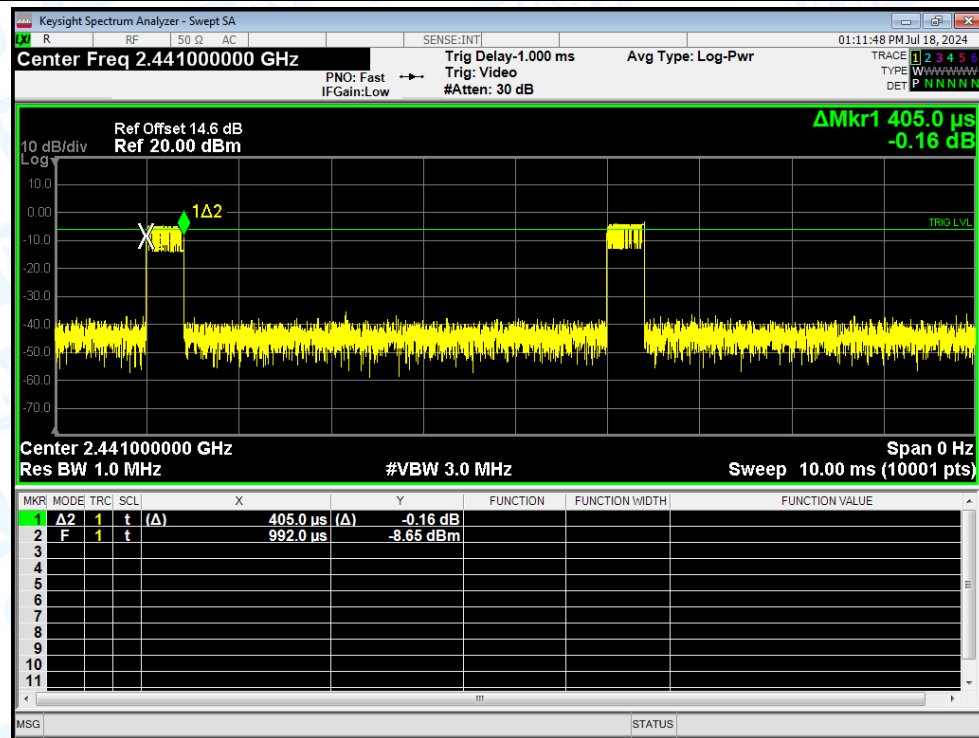


11.Dwell Time

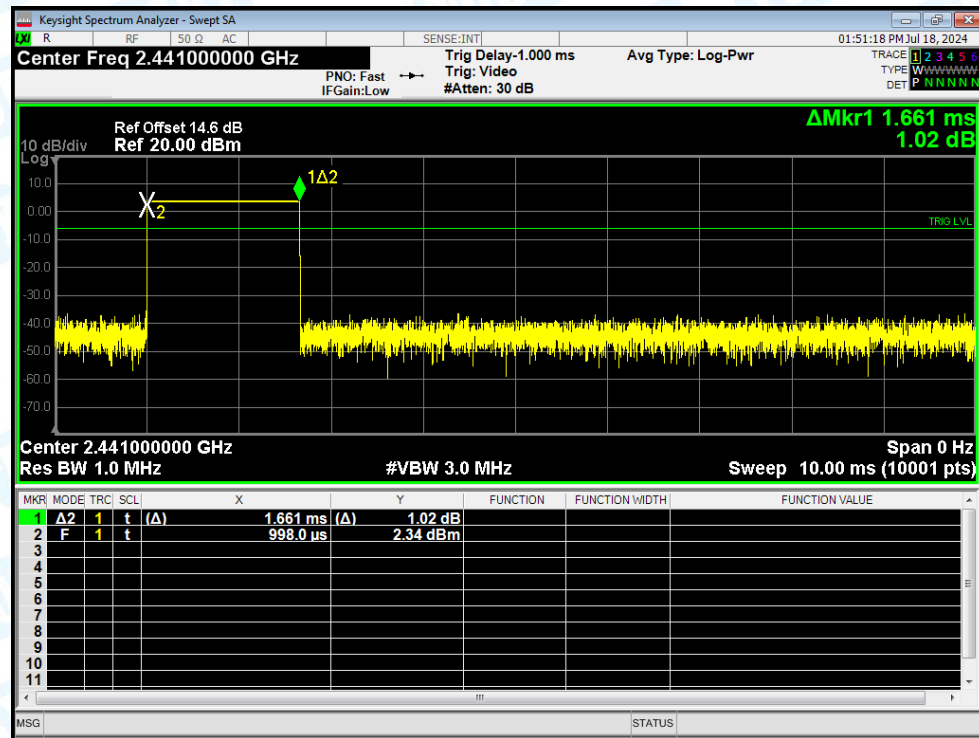
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.405	129.6	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.661	265.76	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.909	310.293	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.398	127.36	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.65	264	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.898	309.12	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.396	126.72	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.646	263.36	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.897	309.013	31600	400	Pass

Test Graphs

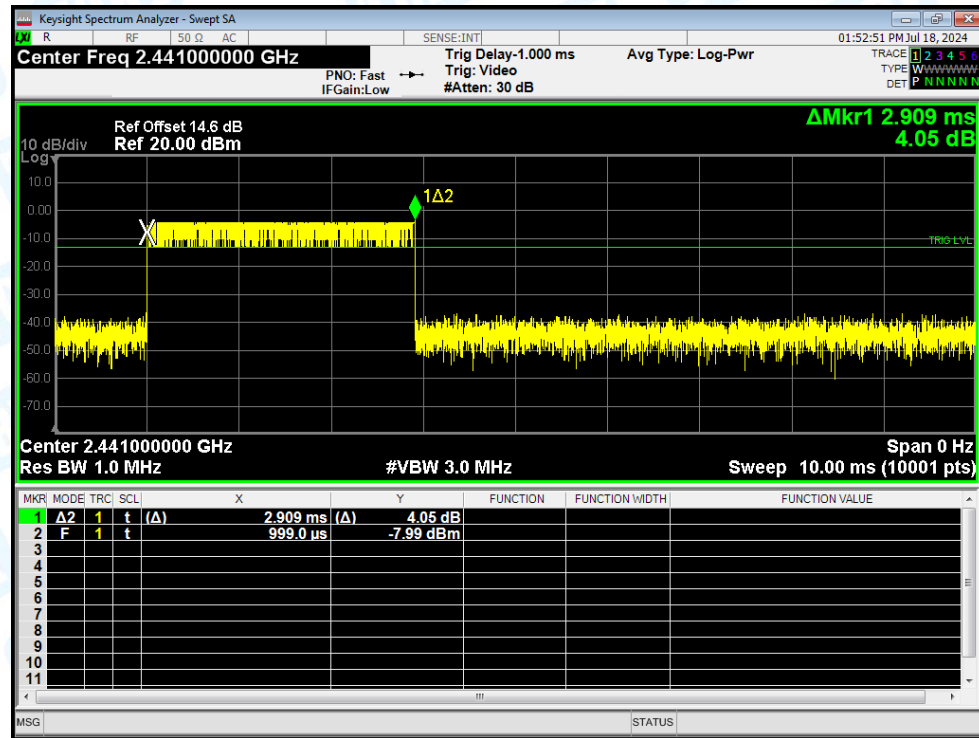
Dwell NVNT 1-DH1 2441MHz Ant1



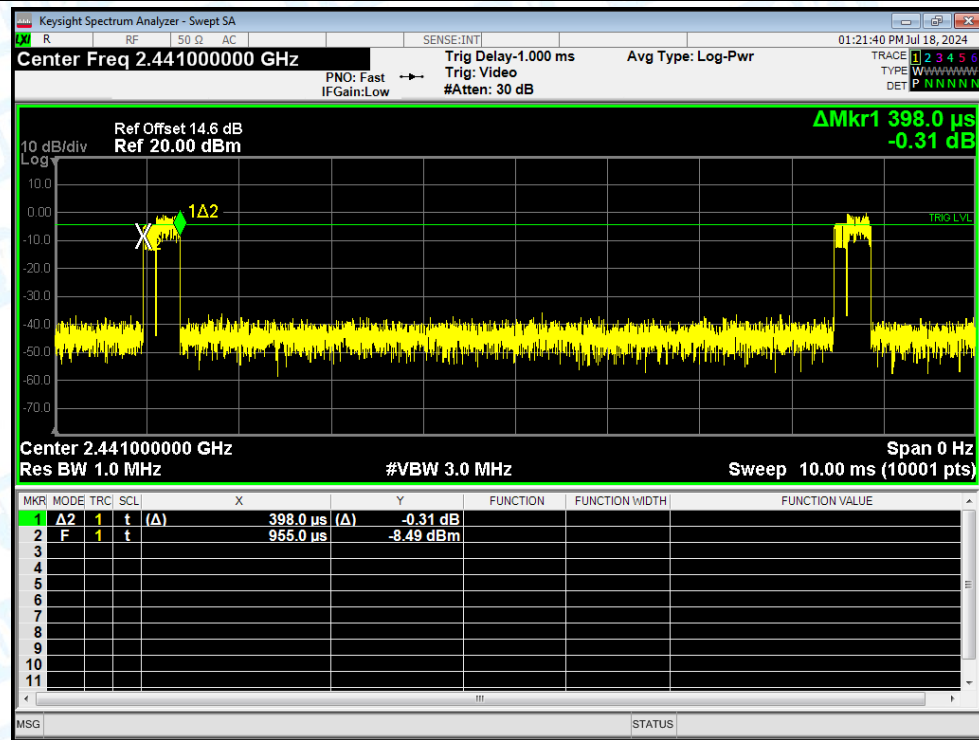
Dwell NVNT 1-DH3 2441MHz Ant1



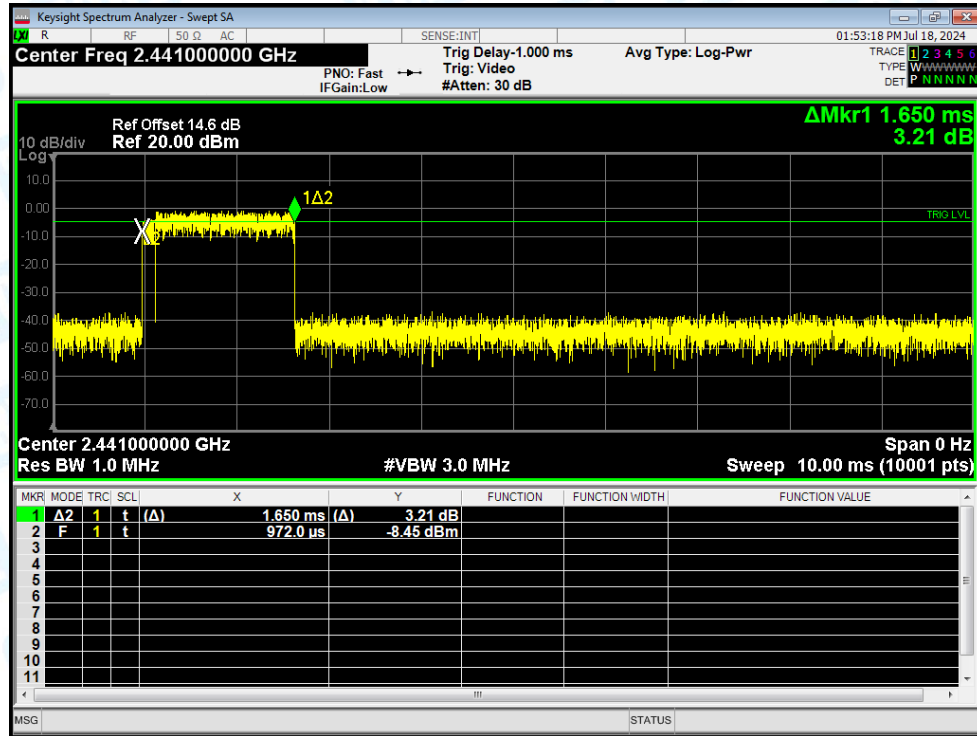
Dwell NVNT 1-DH5 2441MHz Ant1



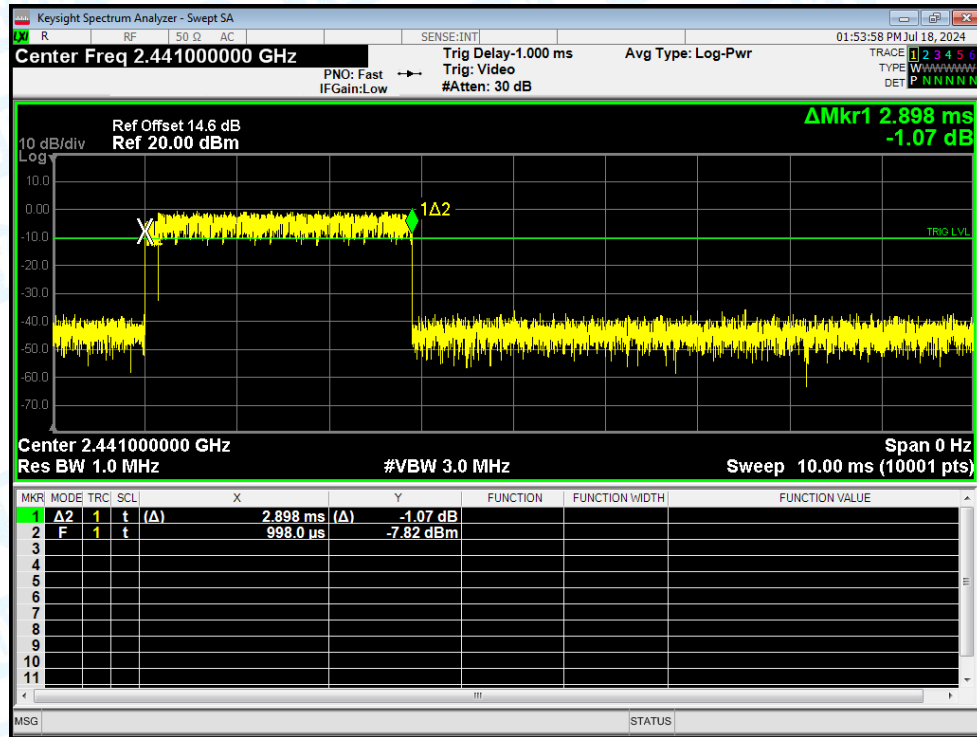
Dwell NVNT 2-DH1 2441MHz Ant1



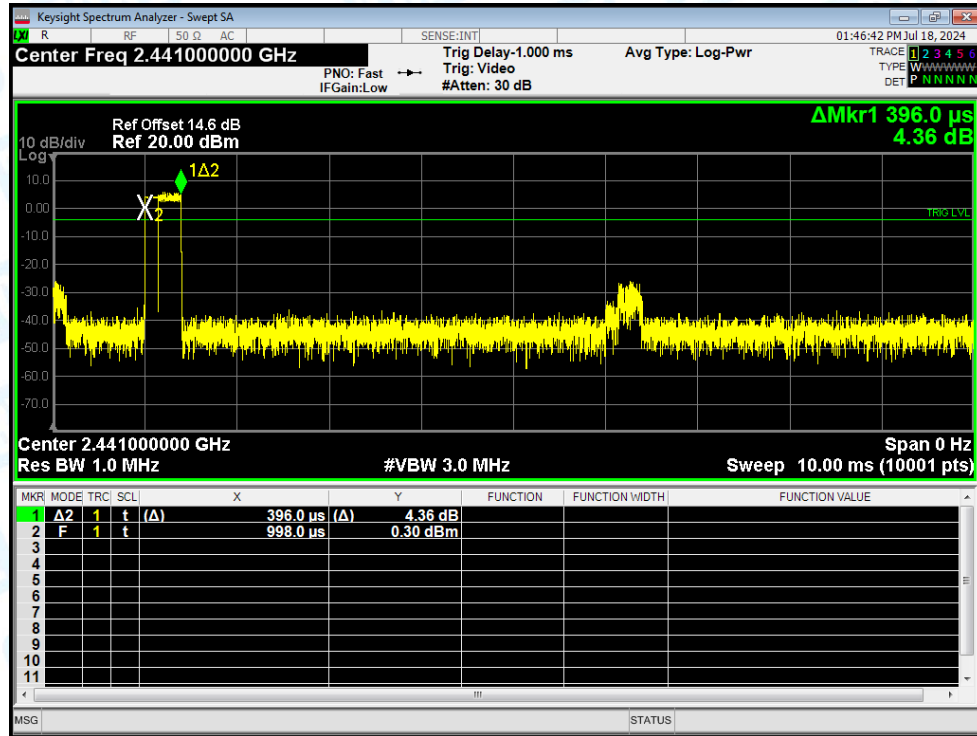
Dwell NVNT 2-DH3 2441MHz Ant1



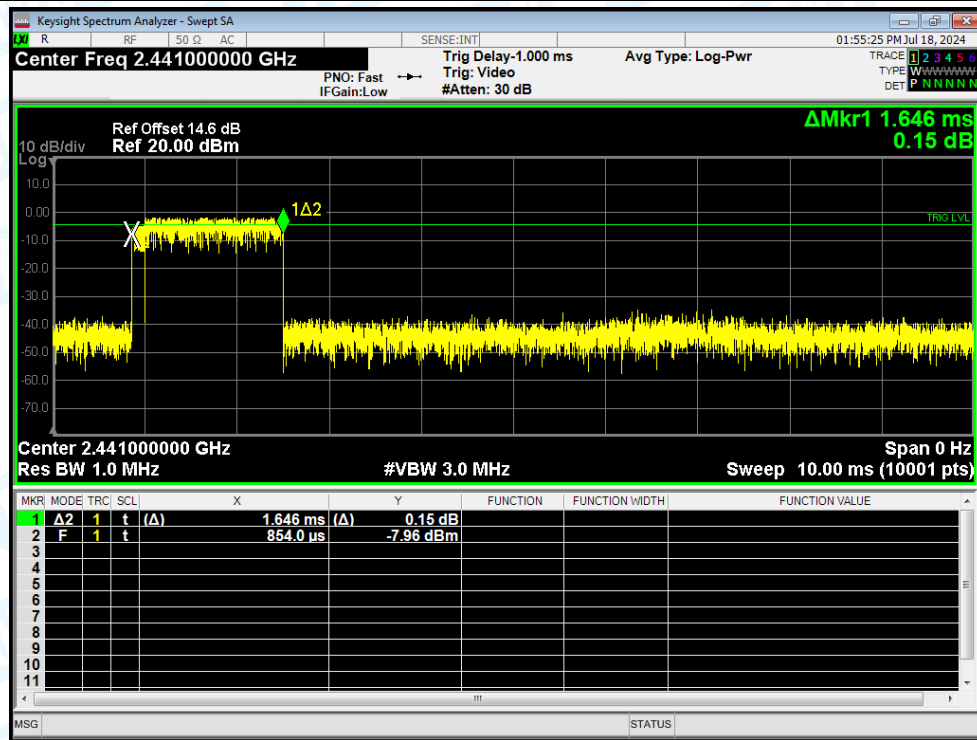
Dwell NVNT 2-DH5 2441MHz Ant1

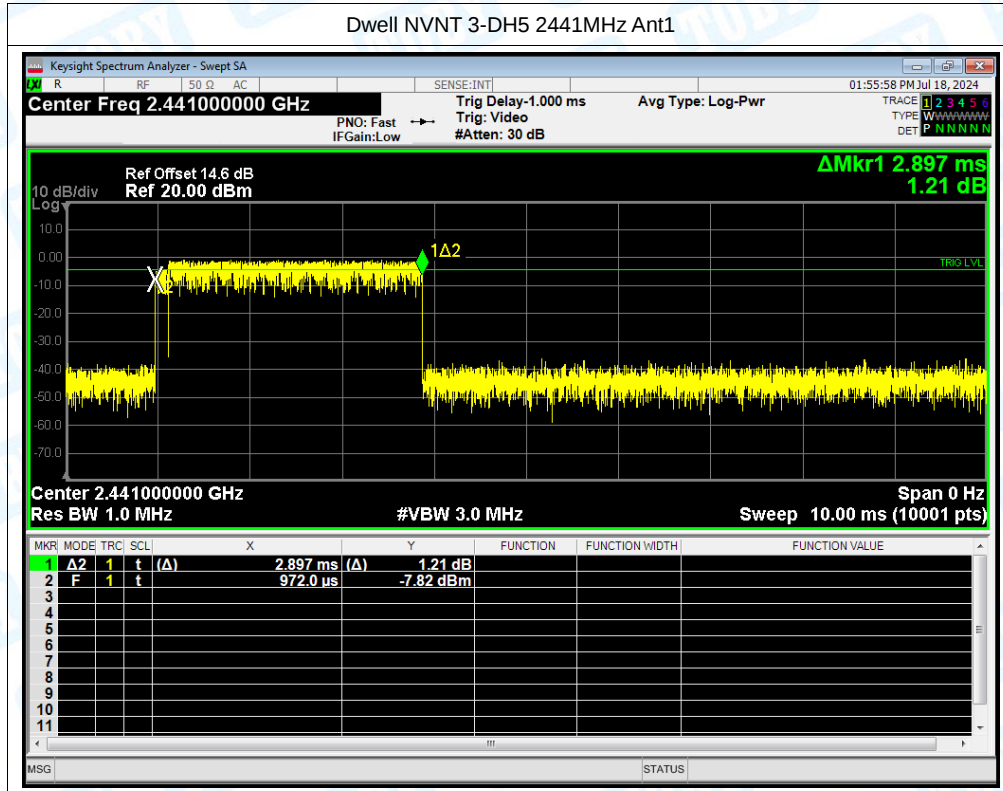


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1





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