

Guangzhou Chengyuan Smart Home Technology Co.,Ltd.

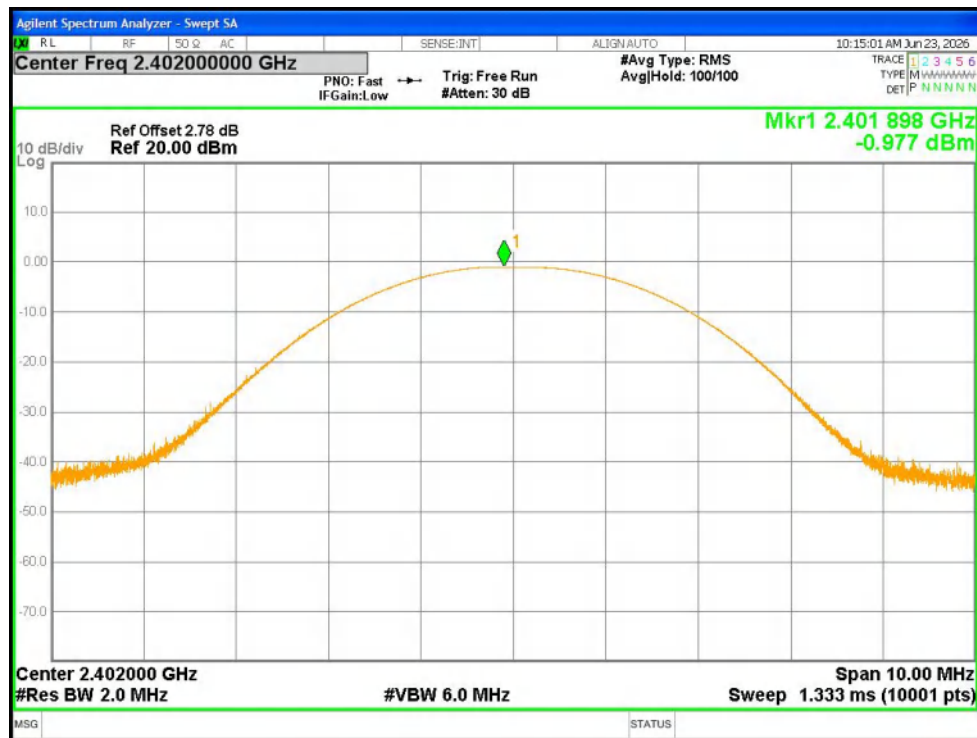
Model: YX2H1-FXFJ

FCC ID: 2BTKZ-YX2H1-FXFJ

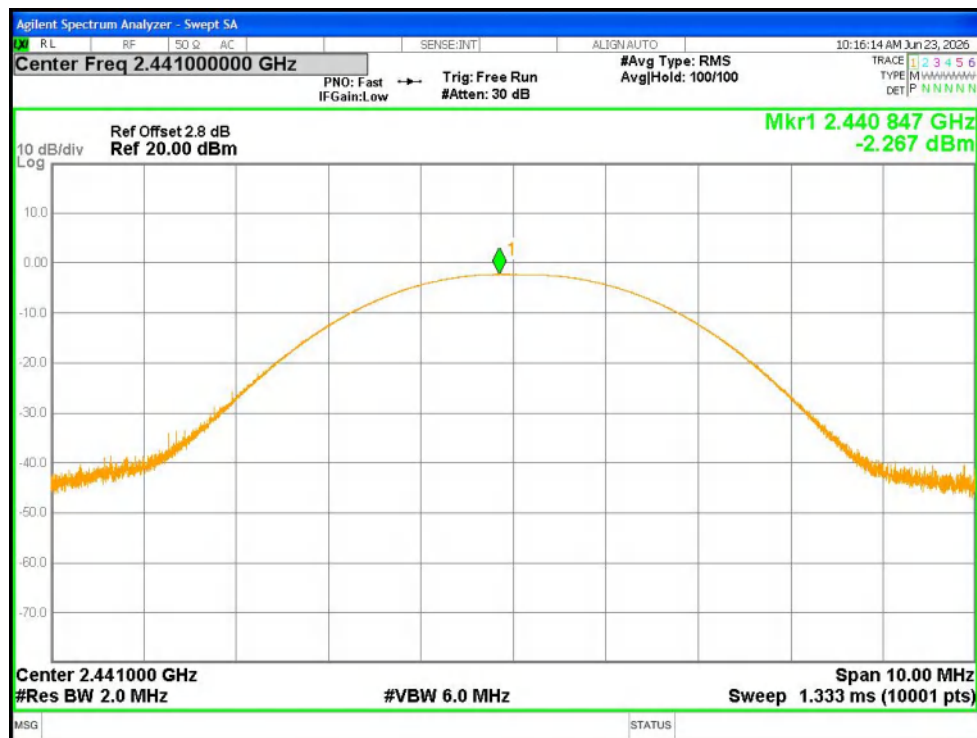
1. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.98	-0.98	21	Pass
NVNT	1-DH5	2441	Ant1	-2.27	-2.27	21	Pass
NVNT	1-DH5	2480	Ant1	-3.08	-3.08	21	Pass
NVNT	2-DH5	2402	Ant1	-0.04	-0.04	21	Pass
NVNT	2-DH5	2441	Ant1	-1.3	-1.3	21	Pass
NVNT	2-DH5	2480	Ant1	-2.15	-2.15	21	Pass
NVNT	3-DH5	2402	Ant1	0.39	0.39	21	Pass
NVNT	3-DH5	2441	Ant1	-0.88	-0.88	21	Pass
NVNT	3-DH5	2480	Ant1	-1.68	-1.68	21	Pass

Report

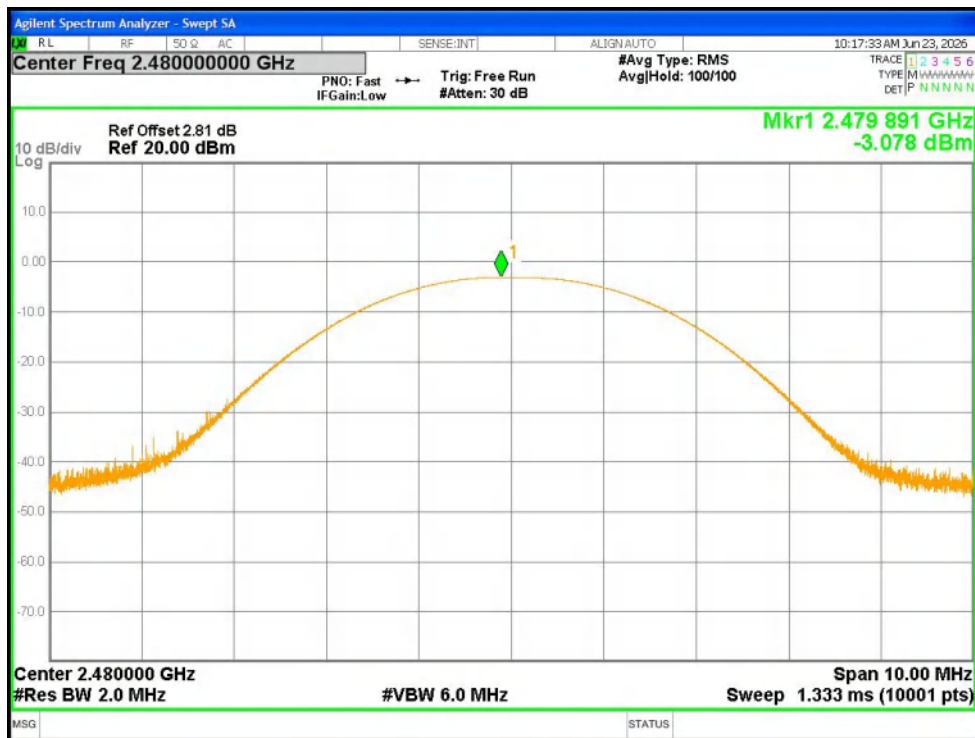


Peak Power NVNT 1-DH5 2402MHz Ant1

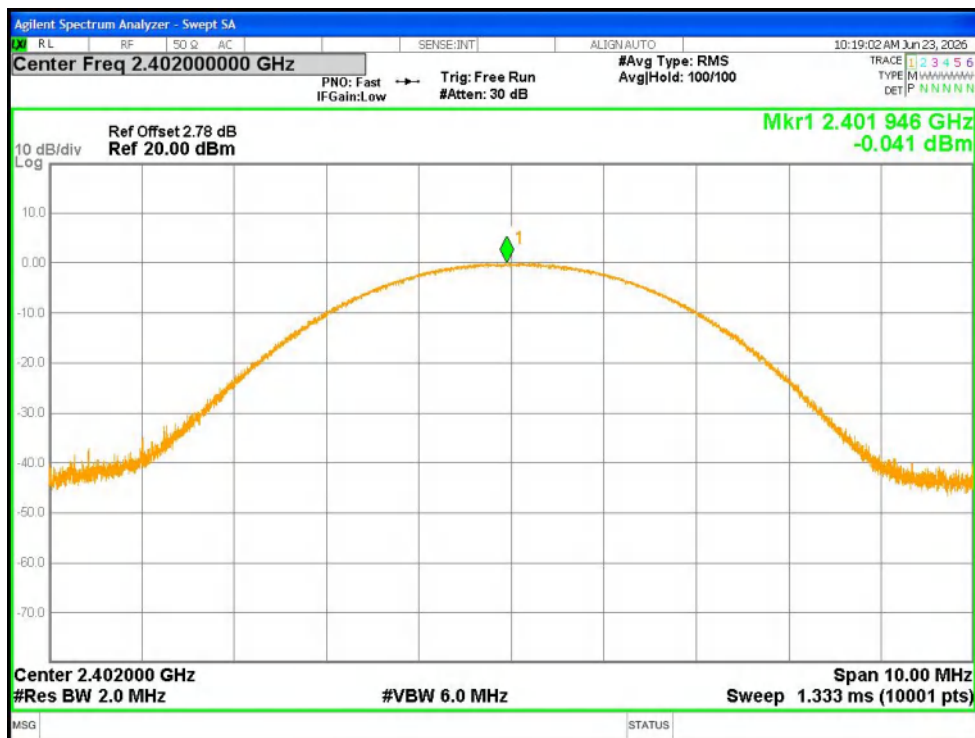


Peak Power NVNT 1-DH5 2441MHz Ant1

Report

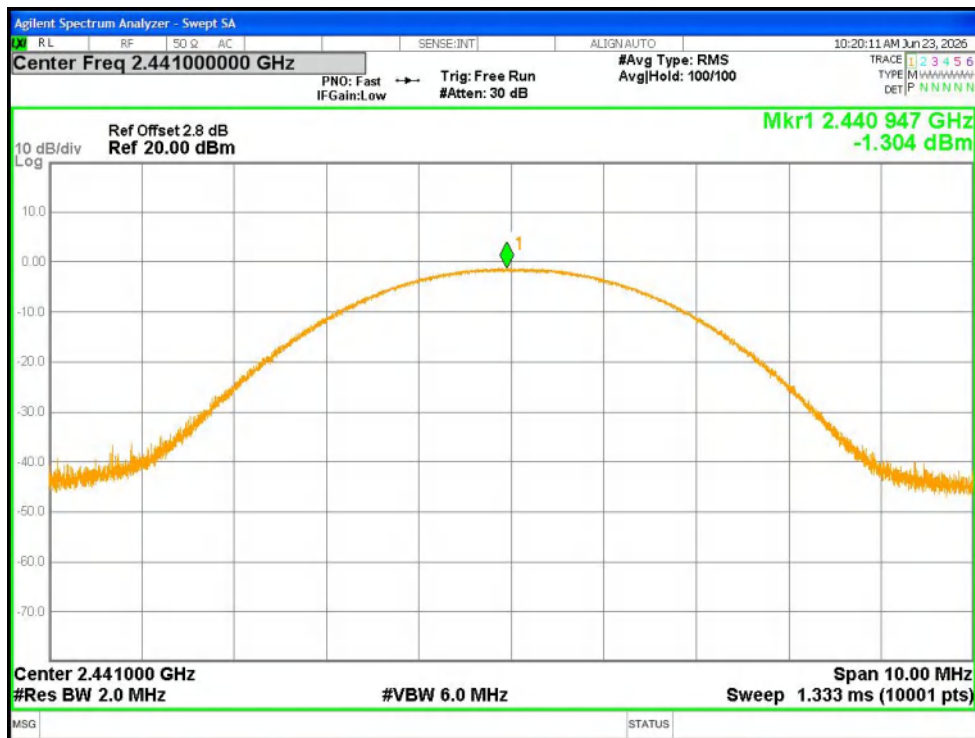


Peak Power NVNT 1-DH5 2480MHz Ant1

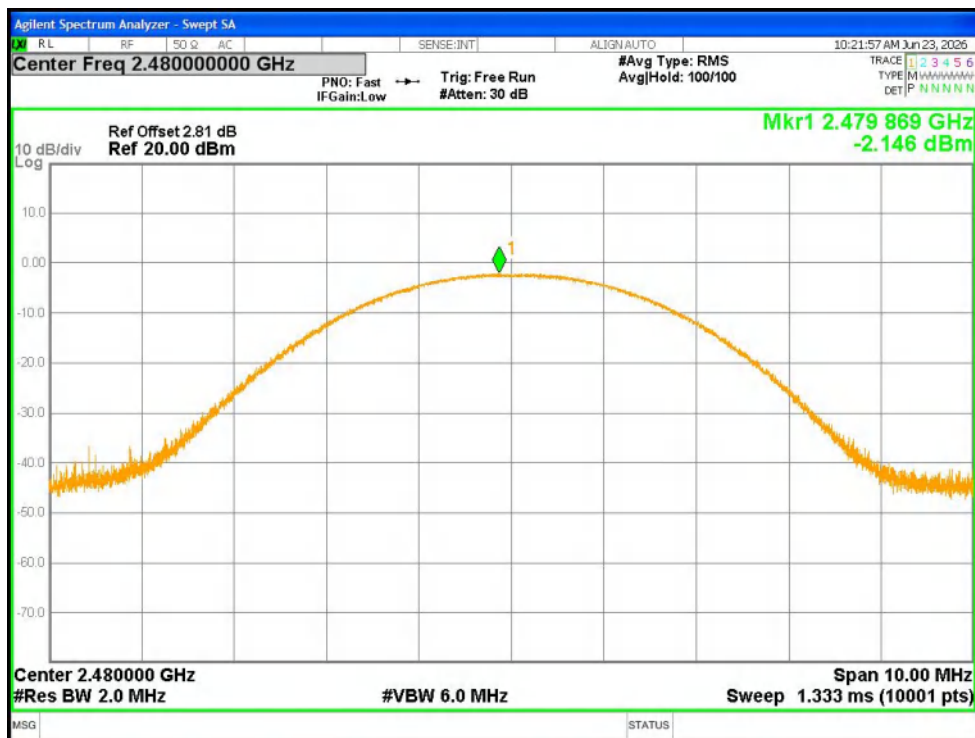


Peak Power NVNT 2-DH5 2402MHz Ant1

Report

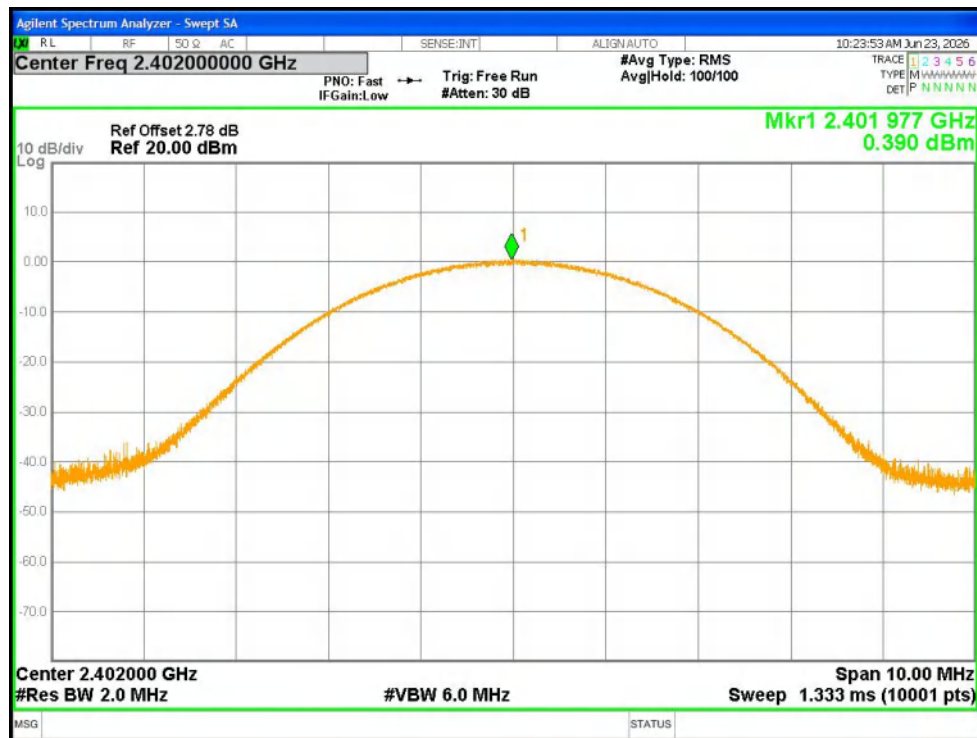


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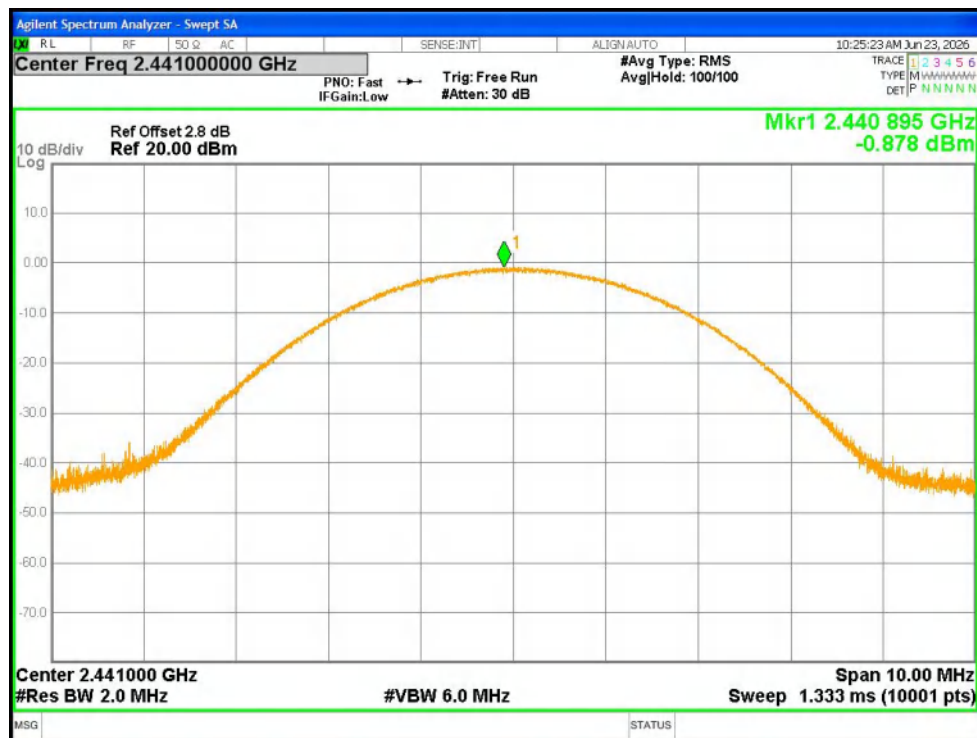


Peak Power NVNT 2-DH5 2480MHz Ant1

Report



Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

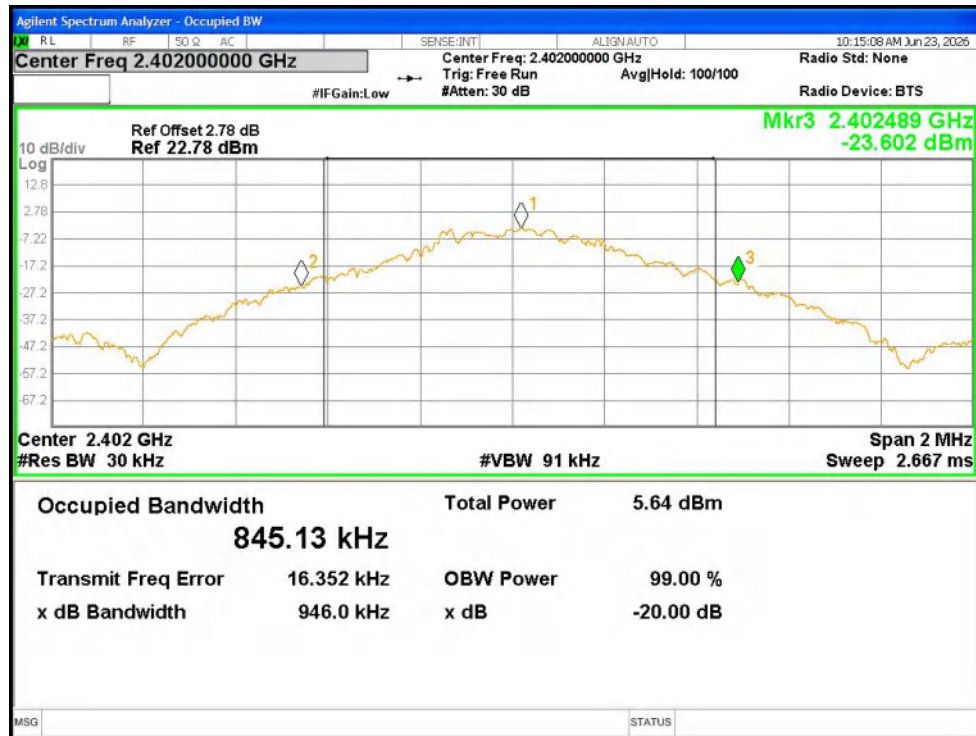


Peak Power NVNT 3-DH5 2480MHz Ant1

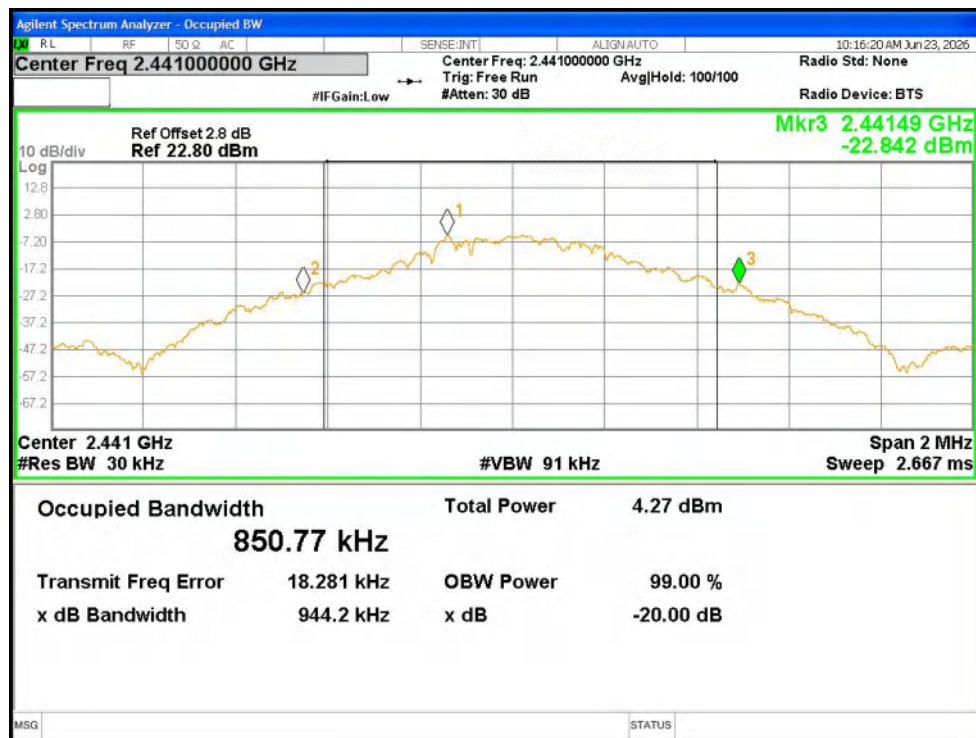
2. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.946	Pass
NVNT	1-DH5	2441	Ant1	0.944	Pass
NVNT	1-DH5	2480	Ant1	0.945	Pass
NVNT	2-DH5	2402	Ant1	1.324	Pass
NVNT	2-DH5	2441	Ant1	1.279	Pass
NVNT	2-DH5	2480	Ant1	1.309	Pass
NVNT	3-DH5	2402	Ant1	1.278	Pass
NVNT	3-DH5	2441	Ant1	1.294	Pass
NVNT	3-DH5	2480	Ant1	1.301	Pass

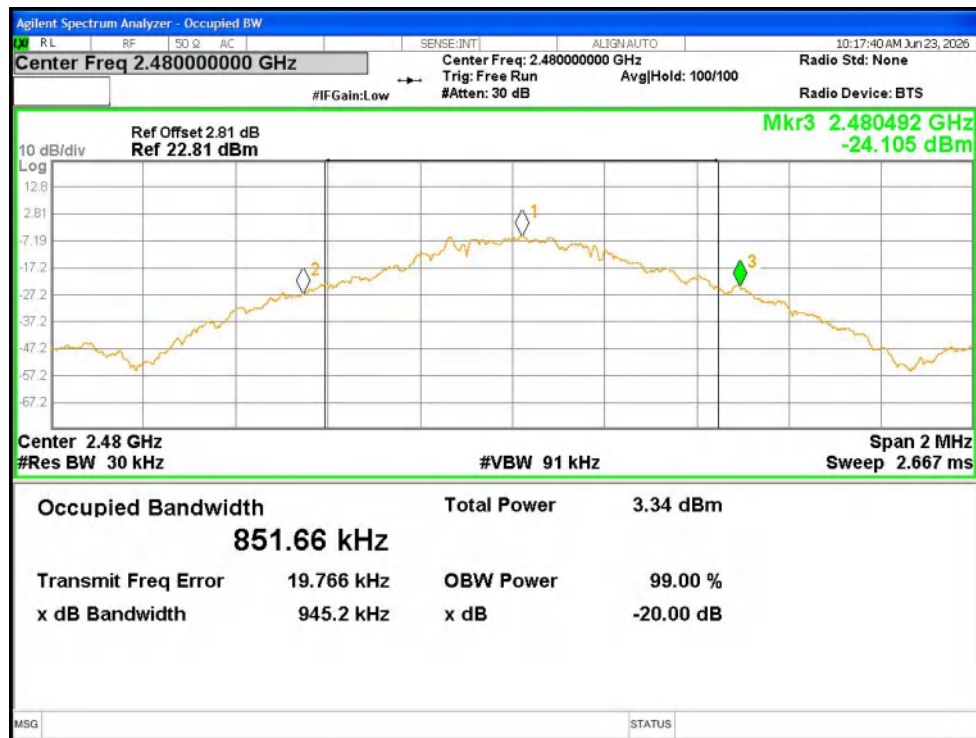
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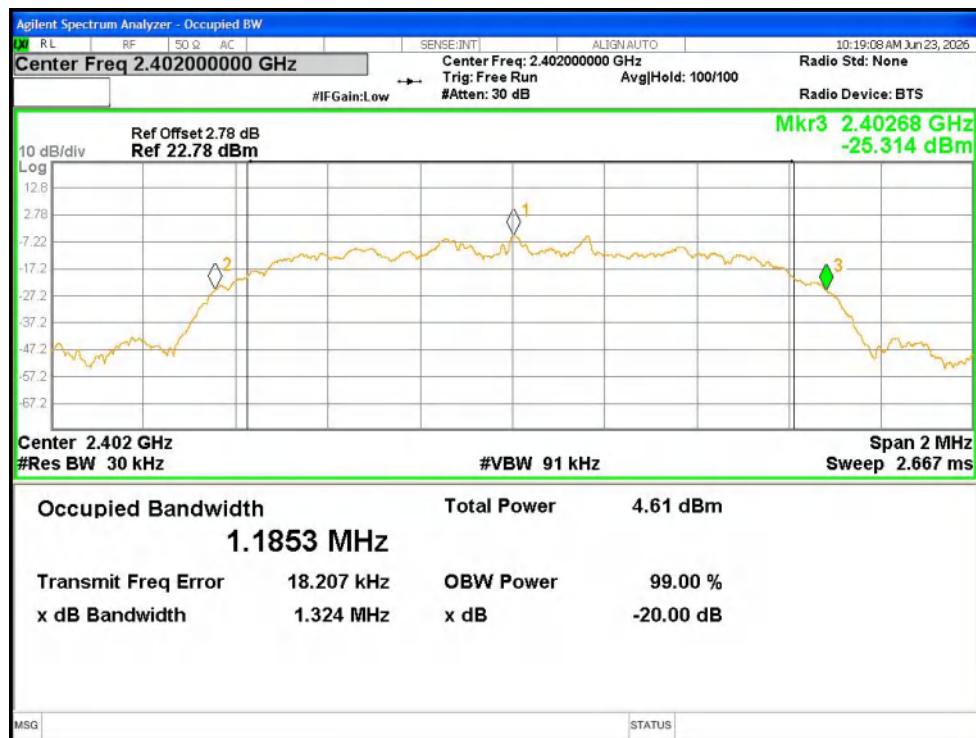
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

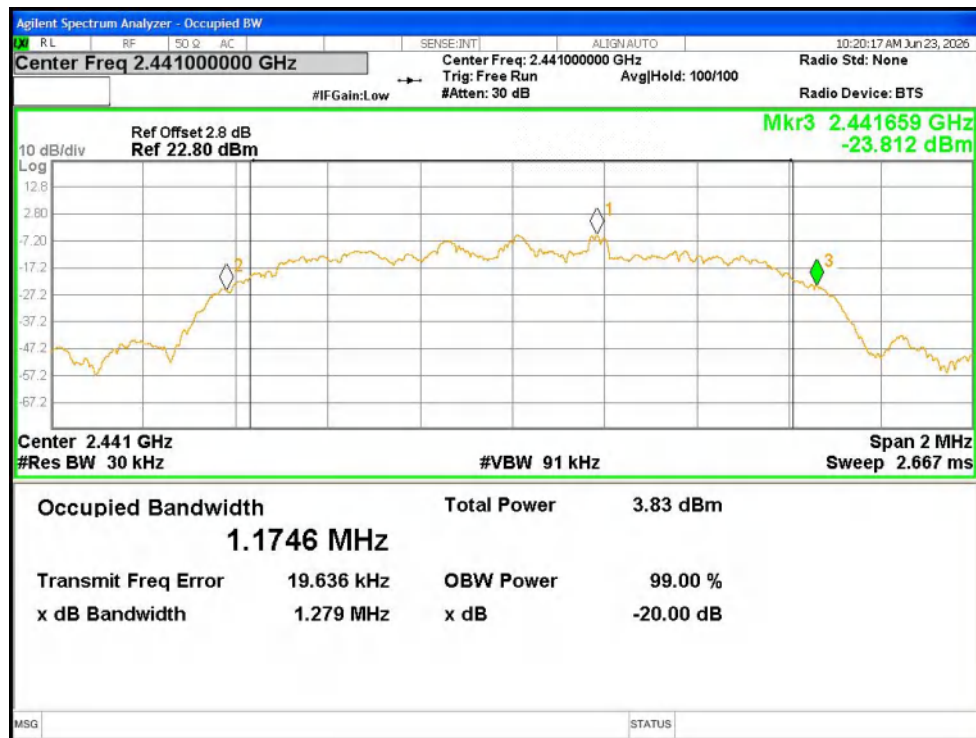


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

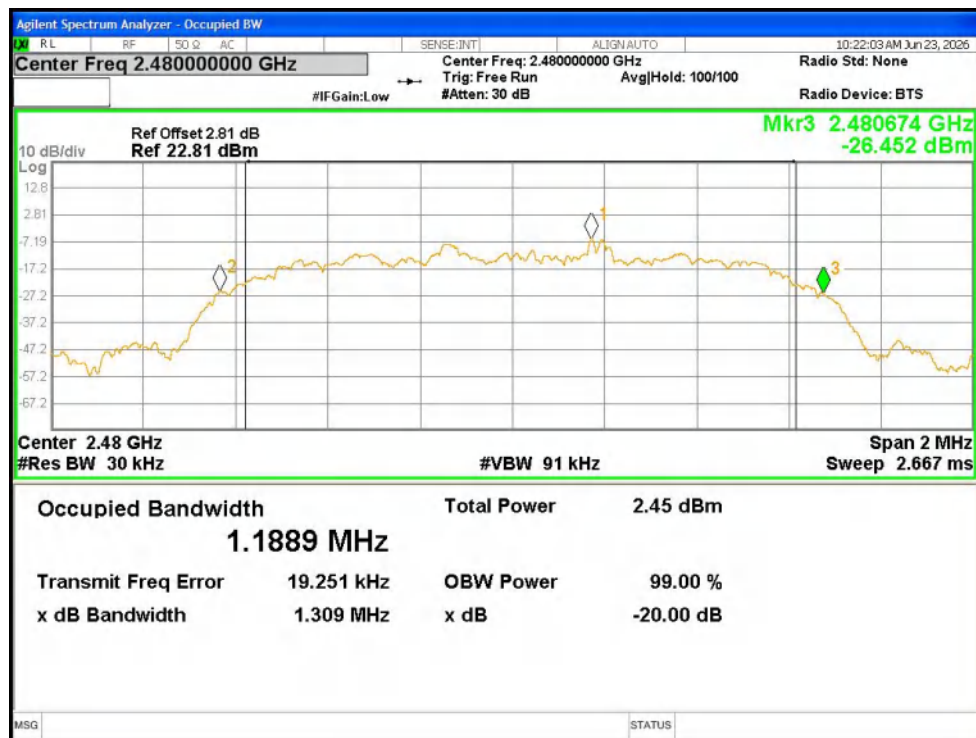


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

Report

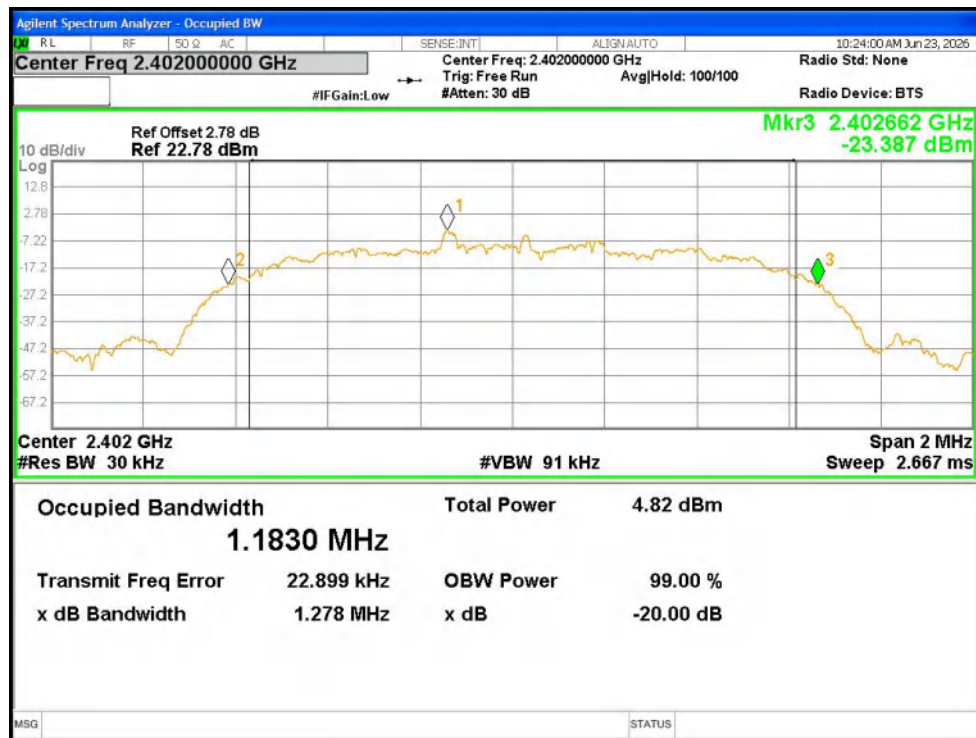


-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

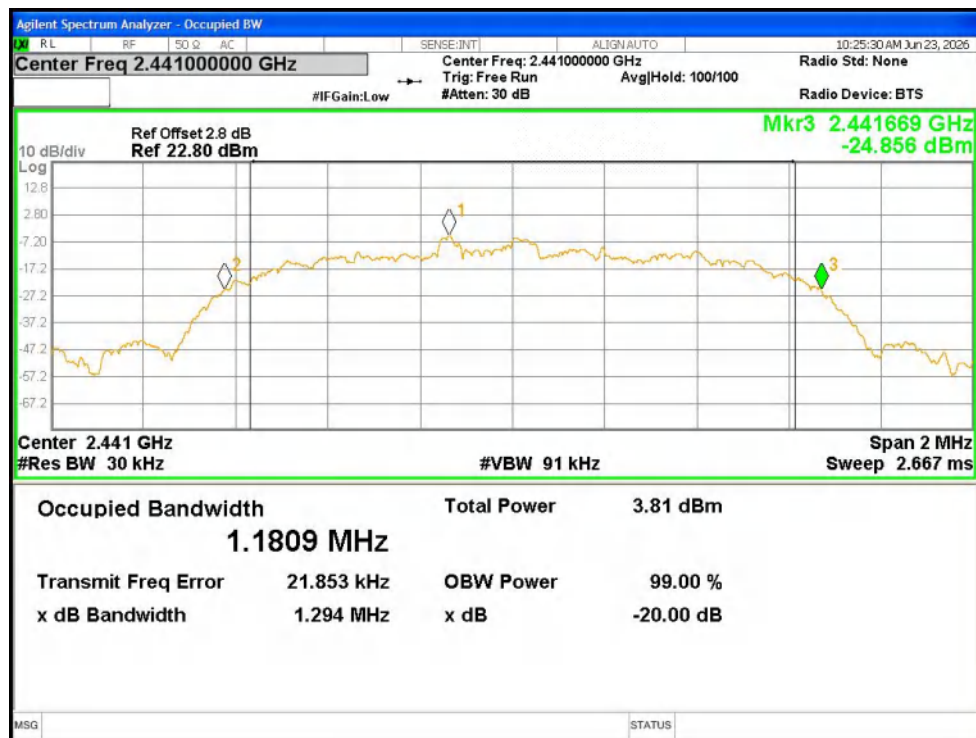


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

Report

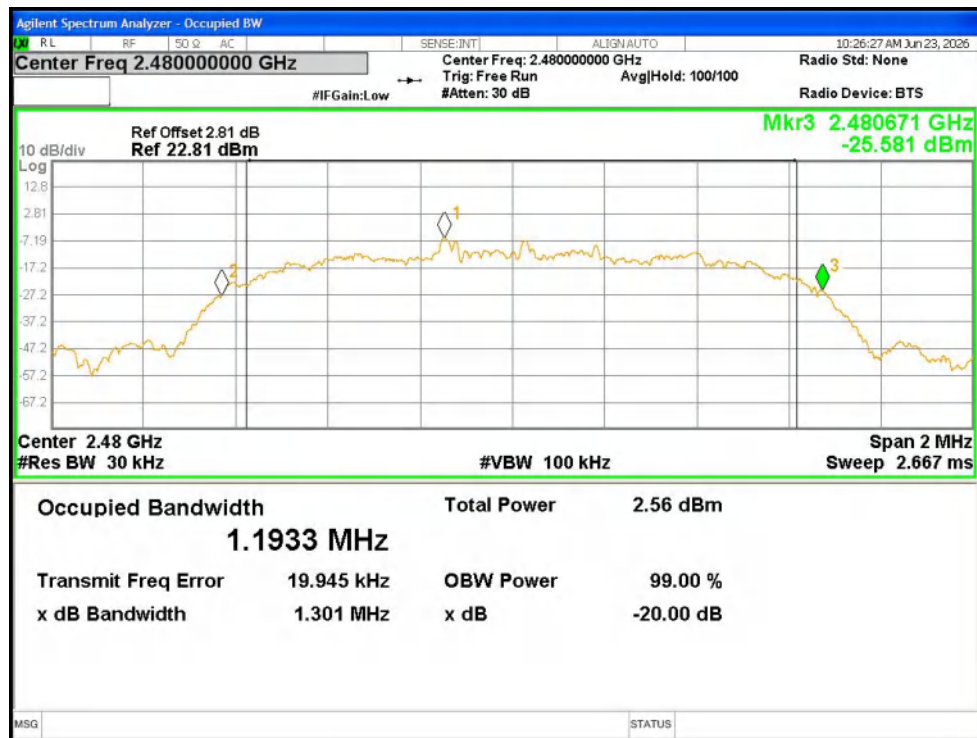


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

Report

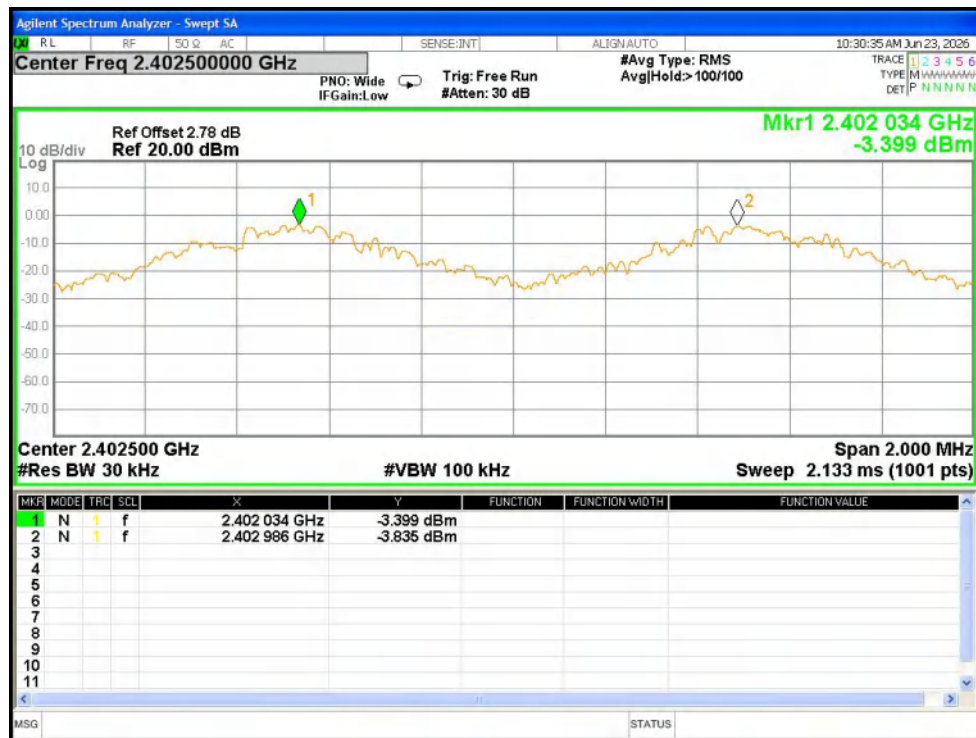


-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

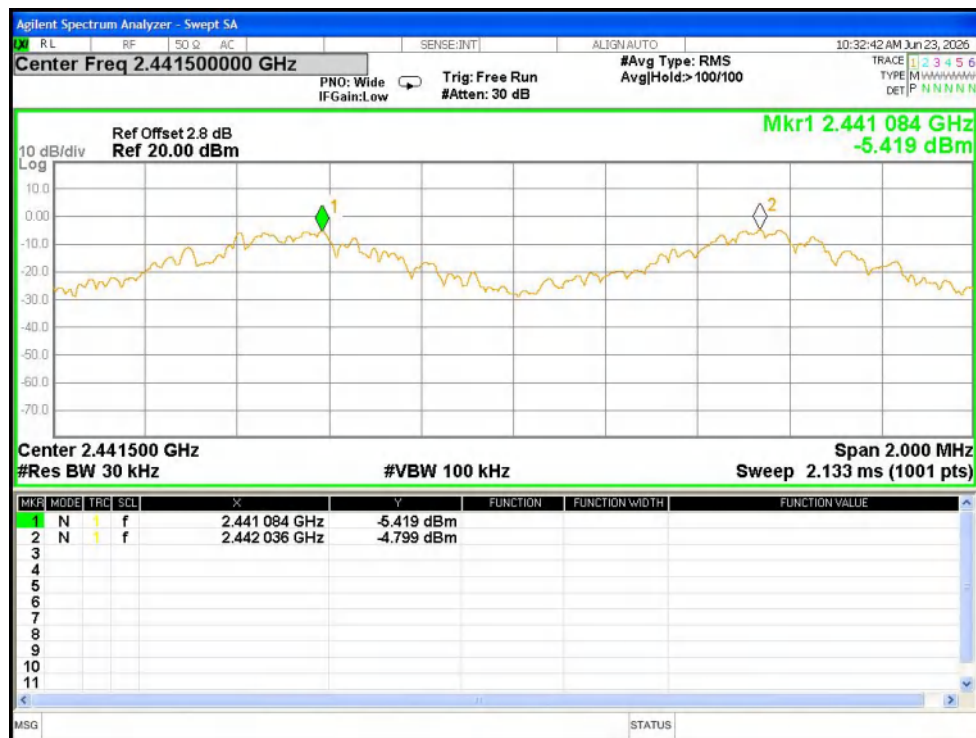
3. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.034	2402.986	0.952	0.631	Pass
NVNT	1-DH5	Ant1	2441.084	2442.036	0.952	0.629	Pass
NVNT	1-DH5	Ant1	2479.034	2480.032	0.998	0.63	Pass
NVNT	2-DH5	Ant1	2402.024	2403.004	0.98	0.883	Pass
NVNT	2-DH5	Ant1	2441.026	2442.018	0.992	0.853	Pass
NVNT	2-DH5	Ant1	2479.012	2480.018	1.006	0.873	Pass
NVNT	3-DH5	Ant1	2402.022	2403.022	1	0.852	Pass
NVNT	3-DH5	Ant1	2440.932	2441.862	0.93	0.863	Pass
NVNT	3-DH5	Ant1	2479.022	2480.026	1.004	0.867	Pass

Report

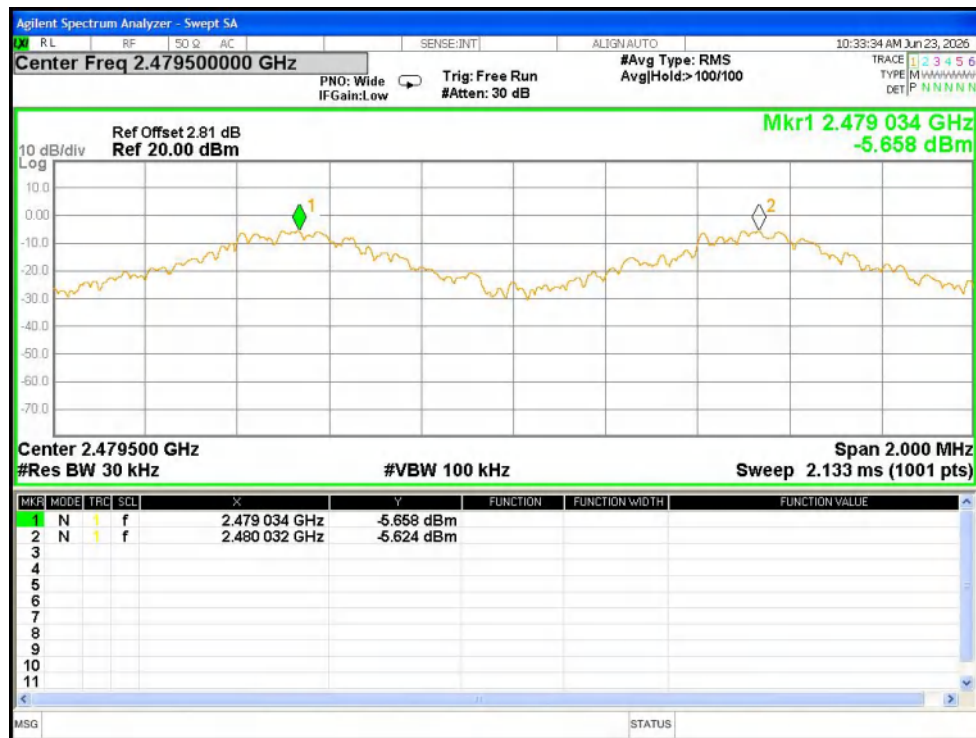


CFS NVNT 1-DH5 2402MHz Ant1

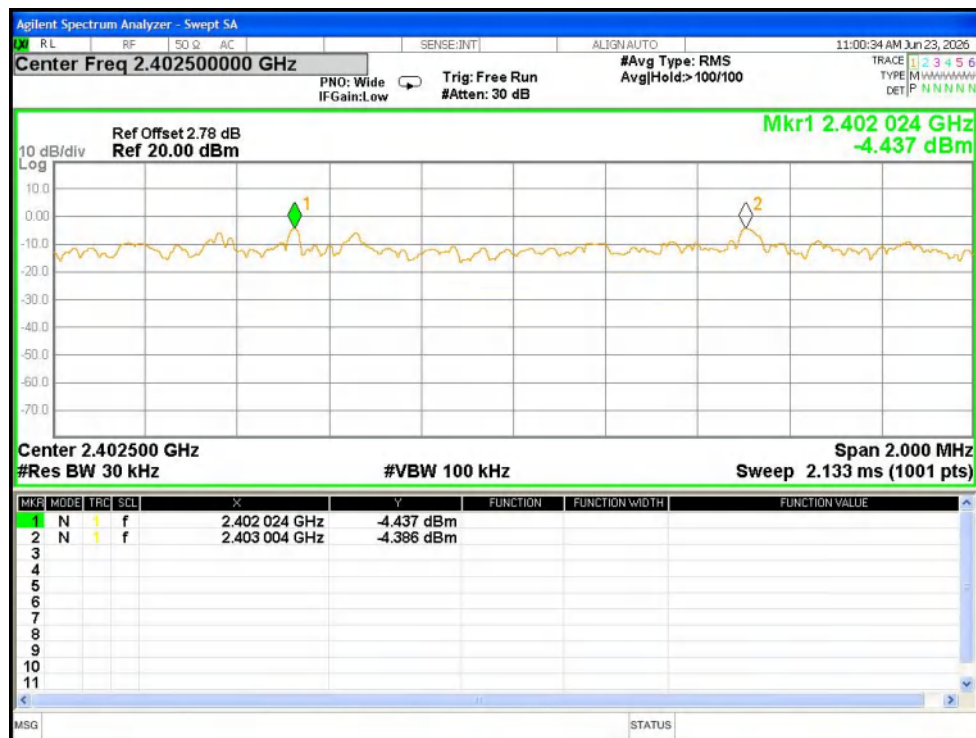


CFS NVNT 1-DH5 2441MHz Ant1

Report

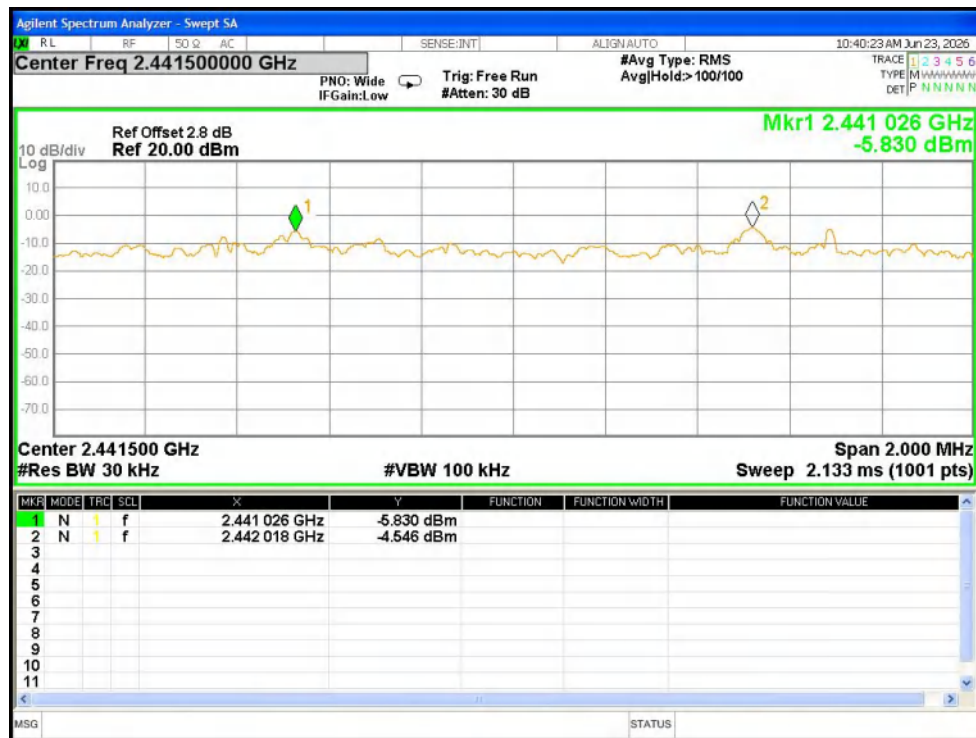


CFS NVNT 1-DH5 2480MHz Ant1

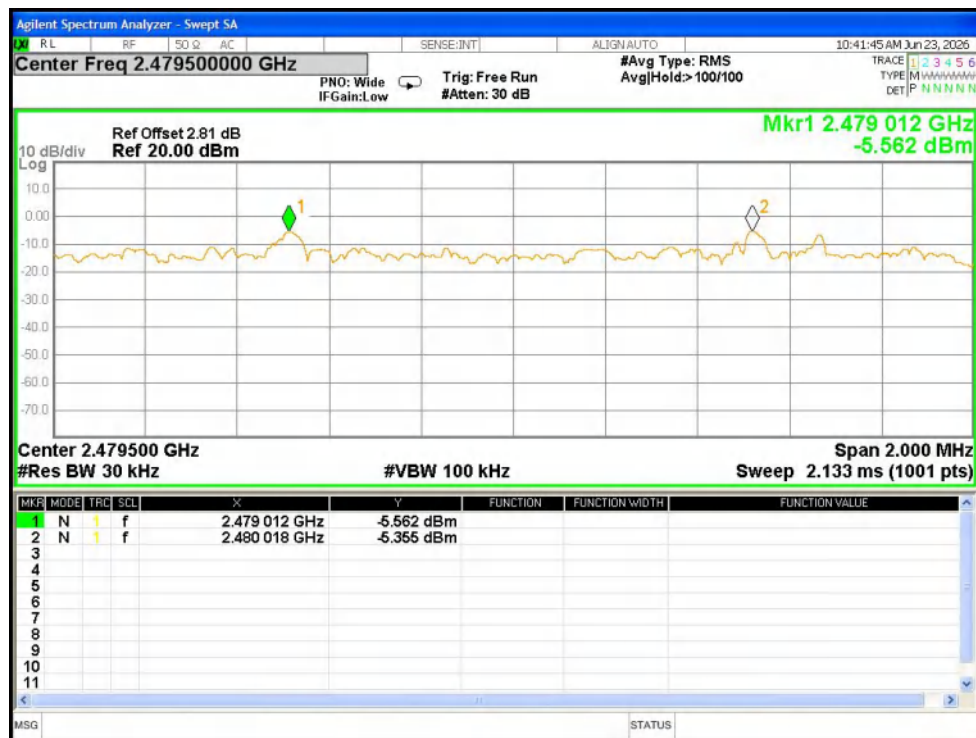


CFS NVNT 2-DH5 2402MHz Ant1

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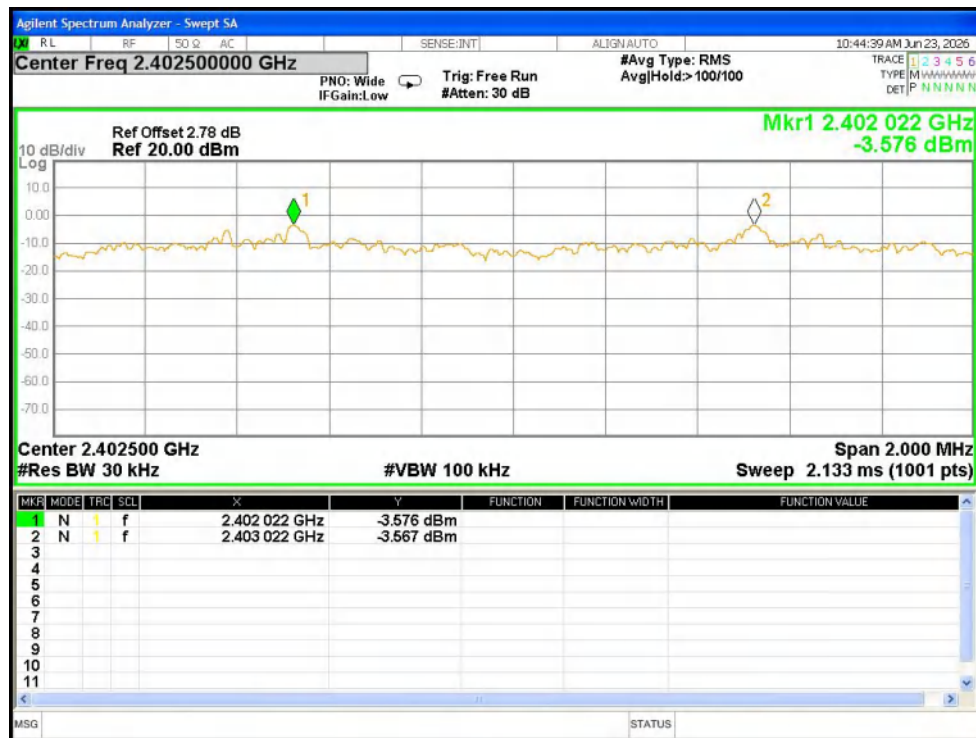


CFS NVNT 2-DH5 2441MHz Ant1

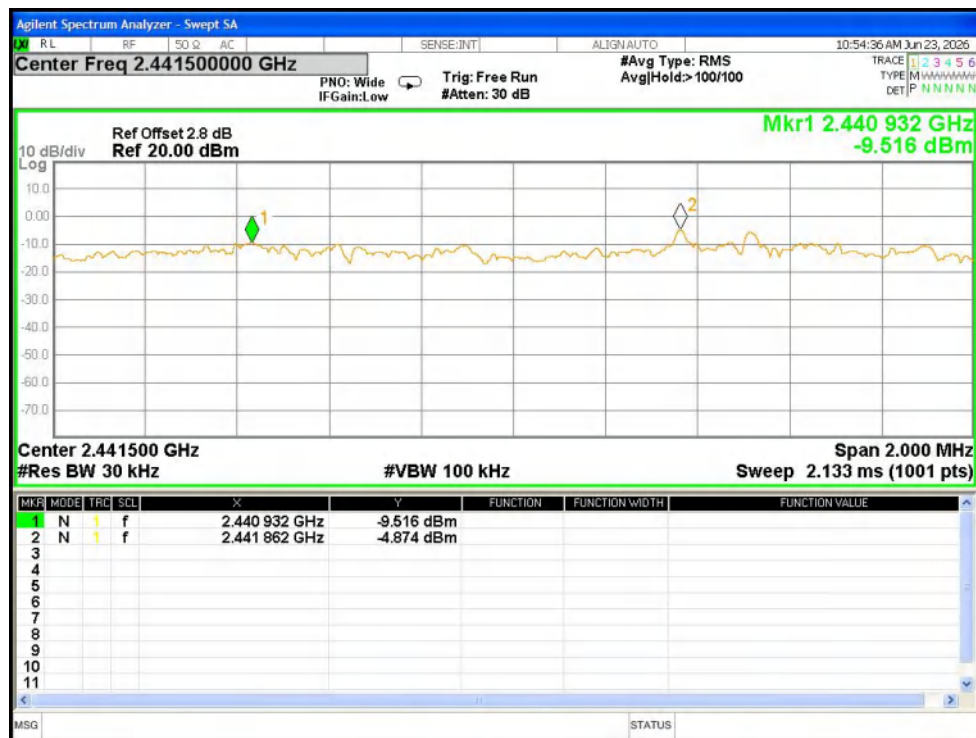


CFS NVNT 2-DH5 2480MHz Ant1

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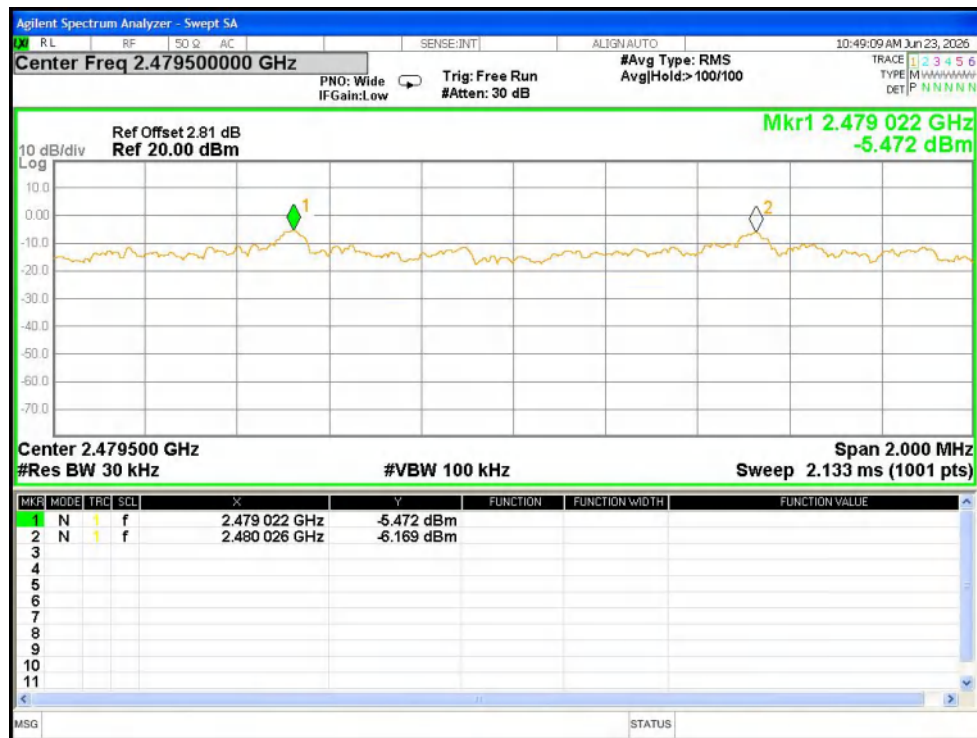


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1

Report

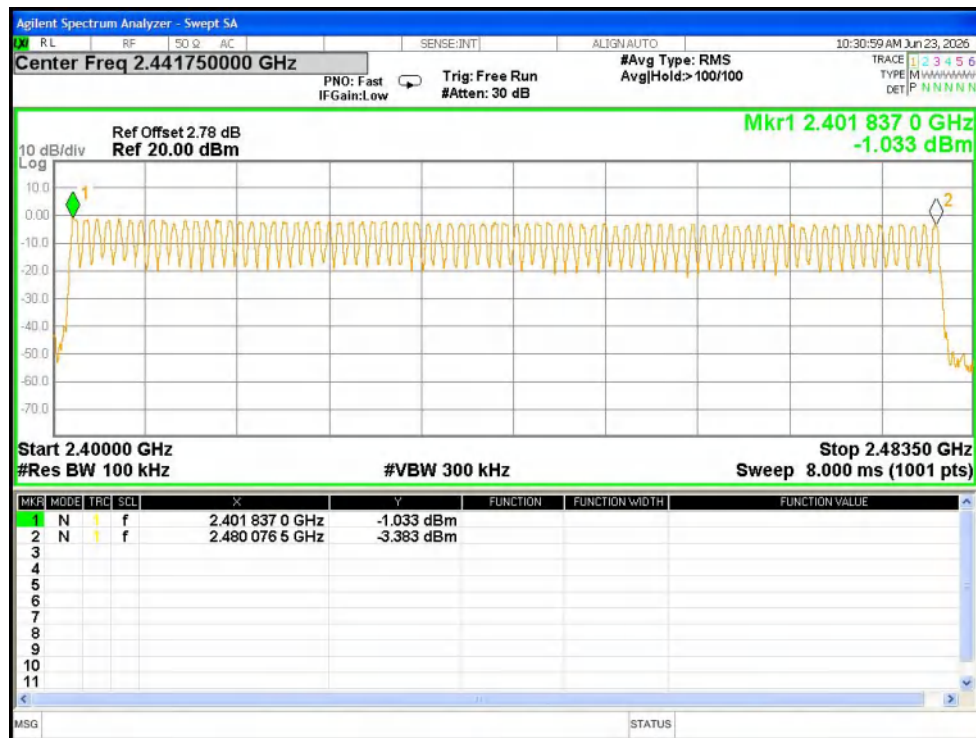


CFS NVNT 3-DH5 2480MHz Ant1

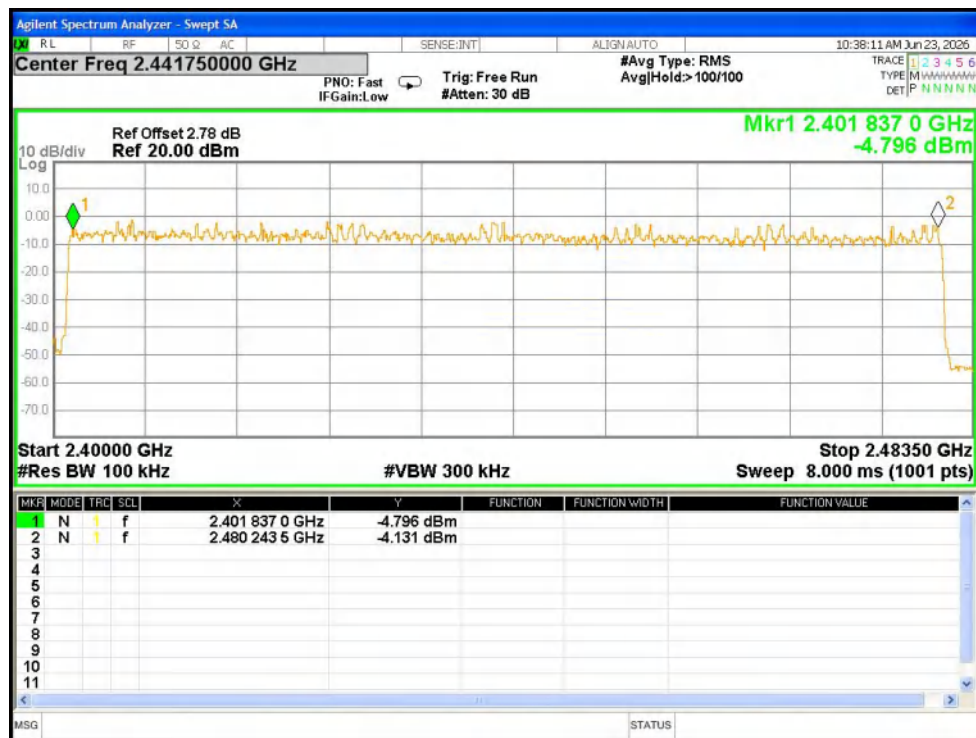
4. Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Report

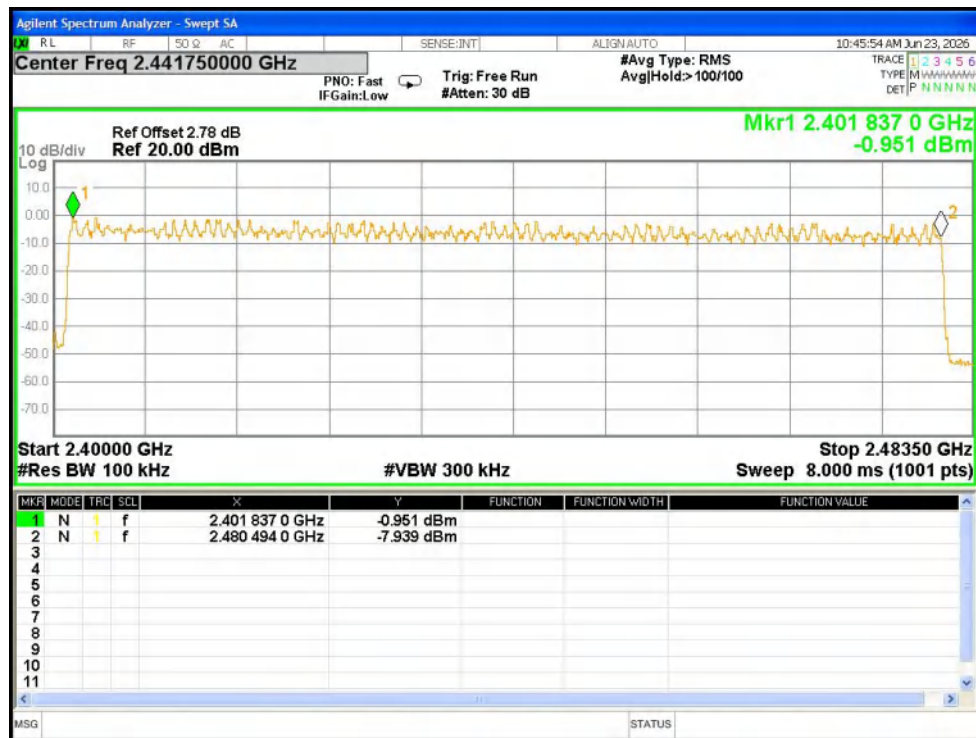


Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

Report



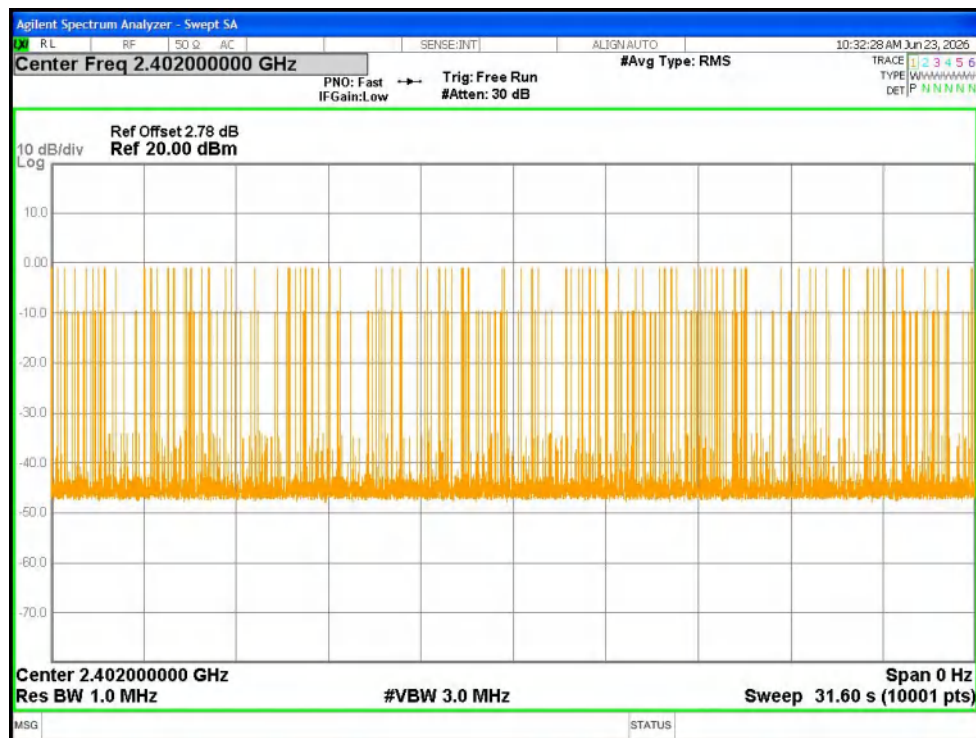
Hopping No. NVNT 3-DH5 2402MHz Ant1

5. Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.881	311.148	108	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.881	314.029	109	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.88	267.84	93	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	262.626	91	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.879	299.416	104	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.887	332.005	115	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.889	335.124	116	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	288.8	100	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	317.57	110	31600	400	Pass



Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

Report



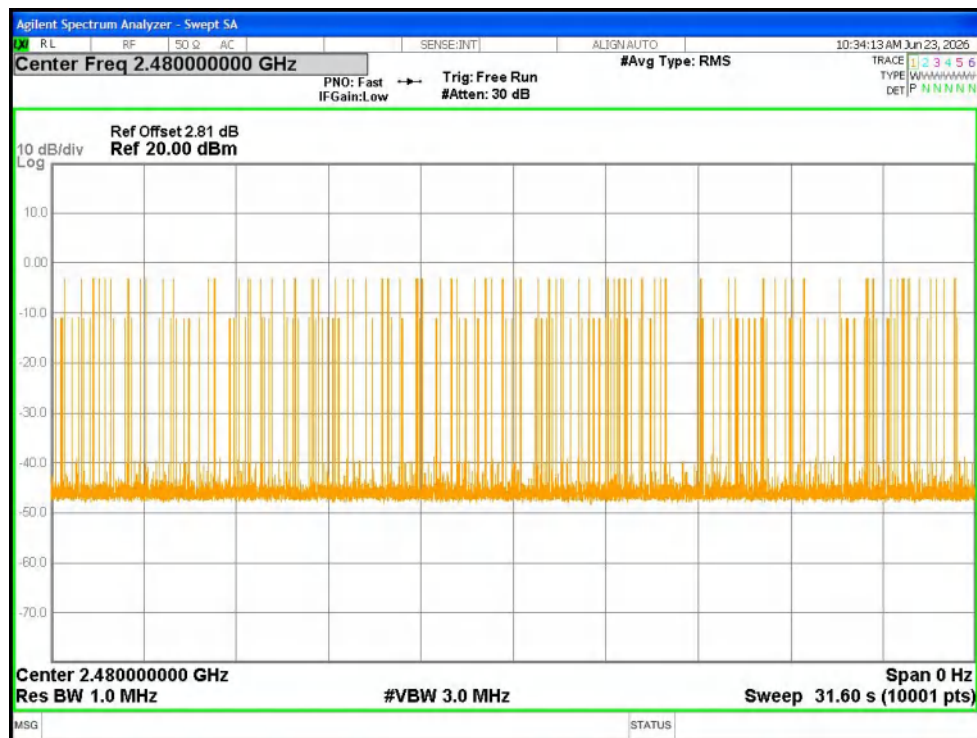
Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



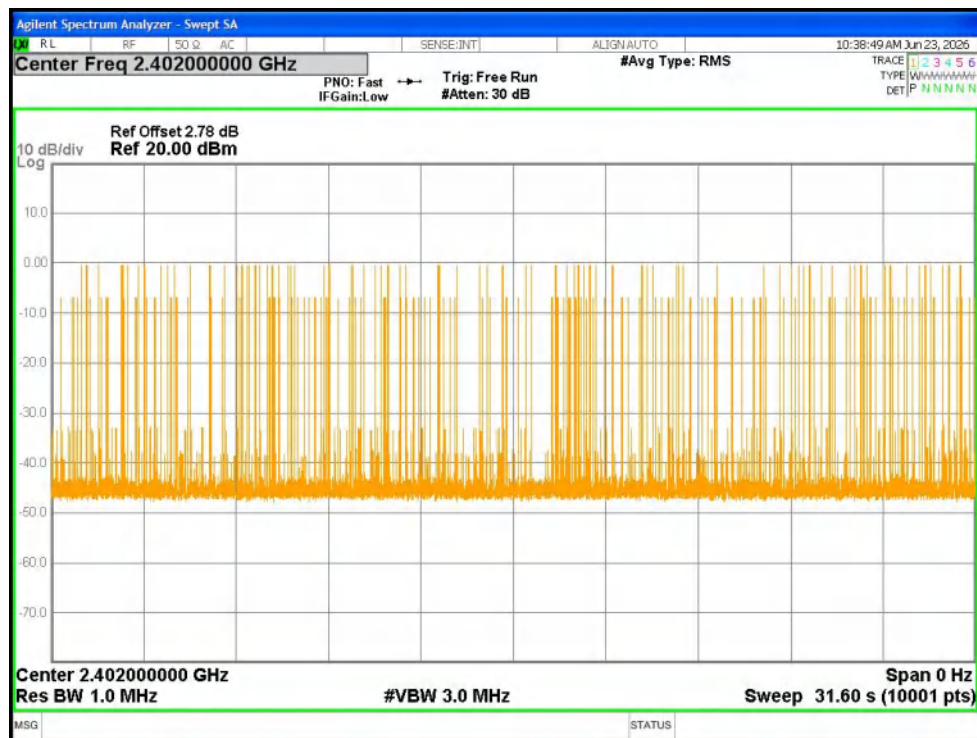
Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

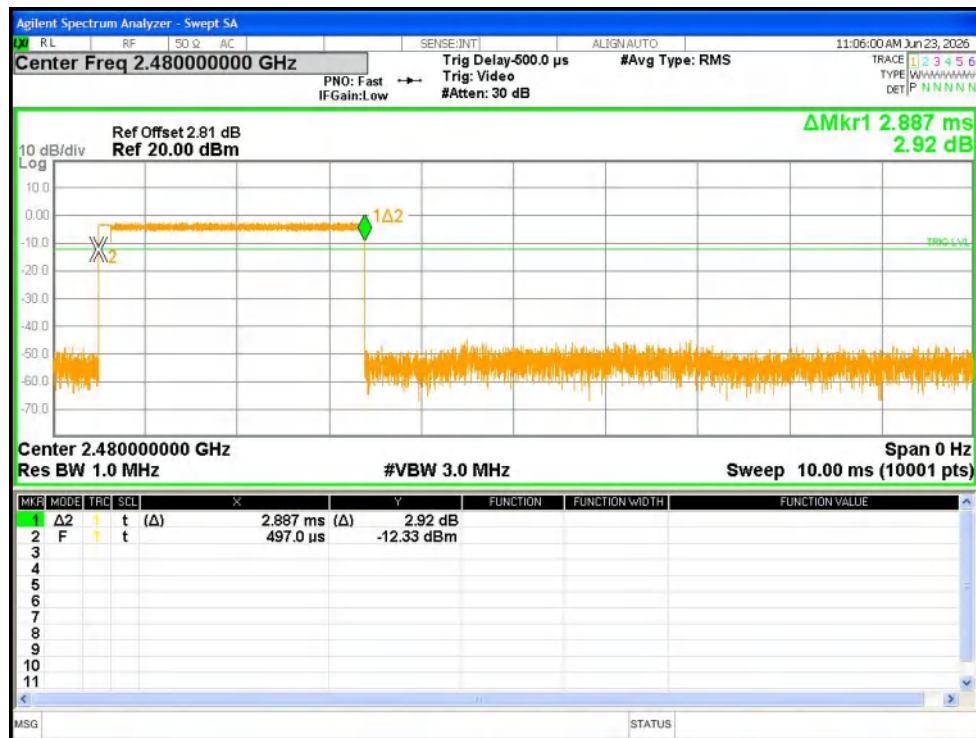


Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

Report



Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

Report



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated

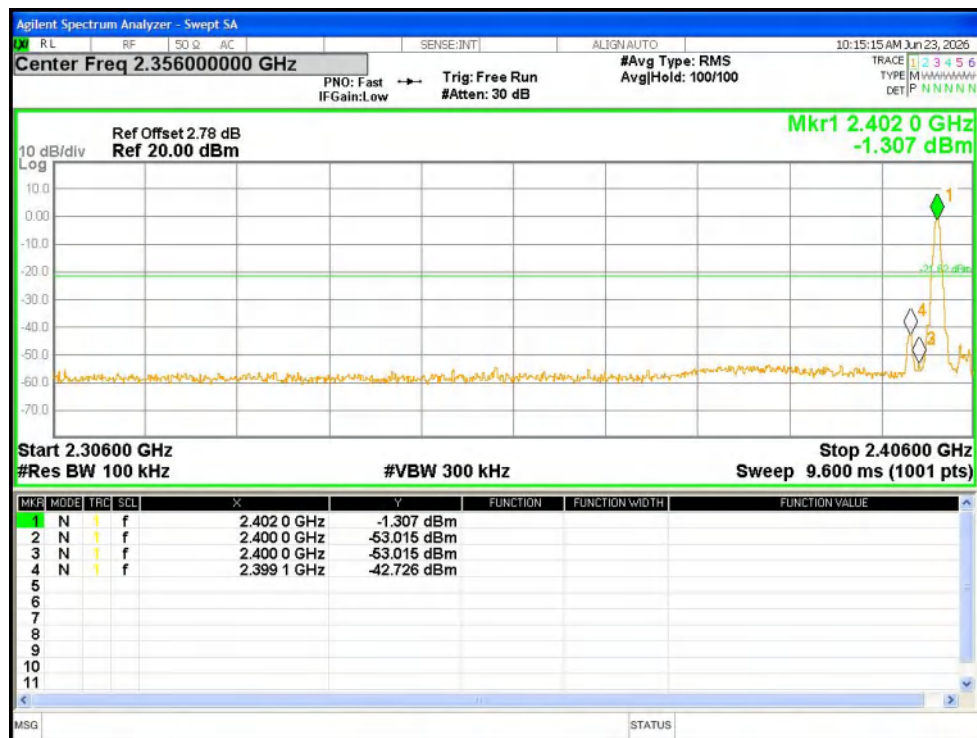
6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-41.1	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-46.99	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-45.55	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-46.37	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-44.65	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-48.06	-20	Pass

Report



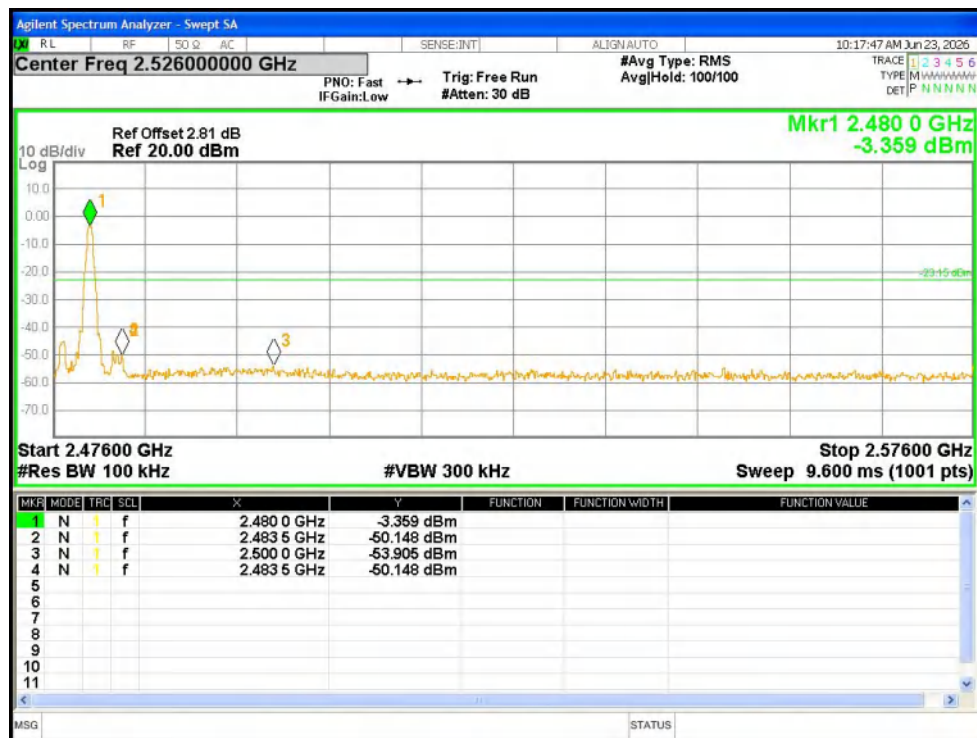
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

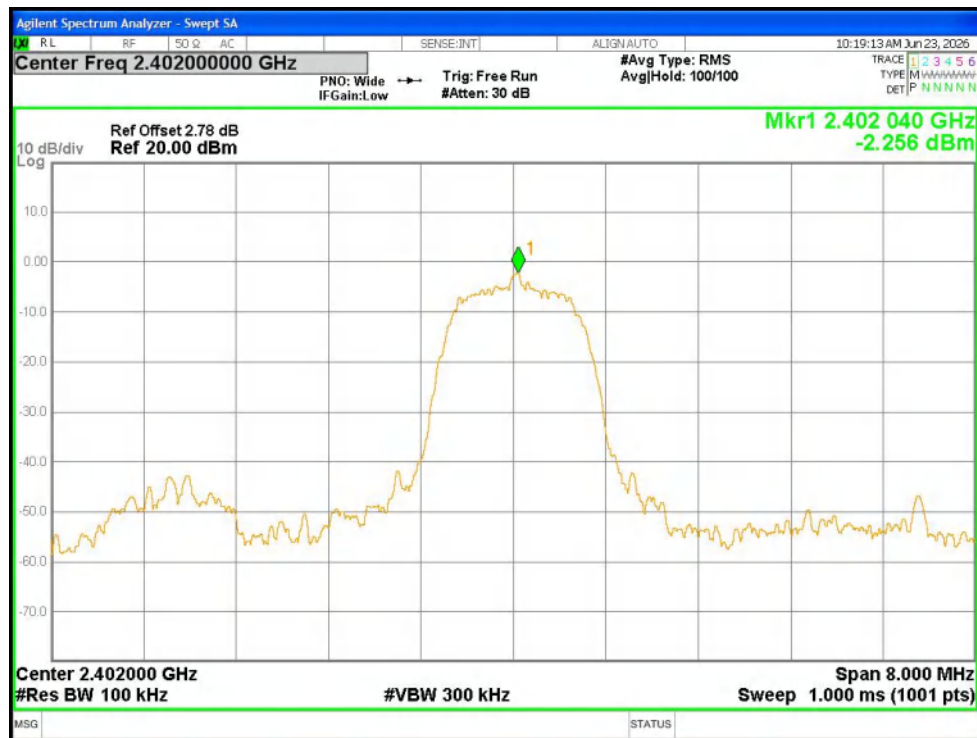


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

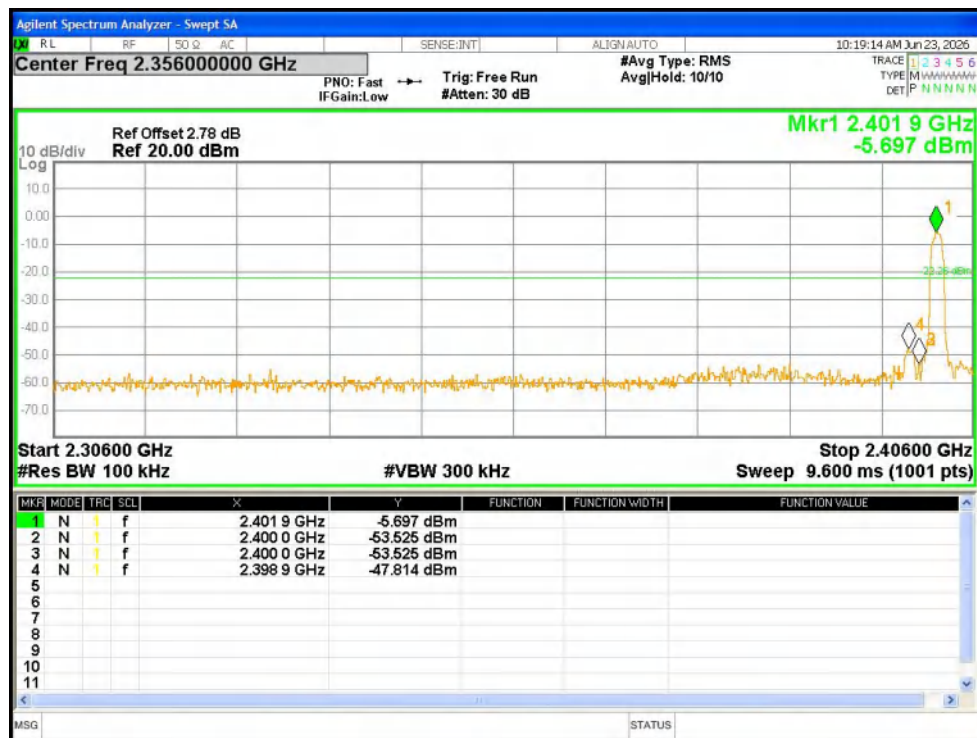


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

Report



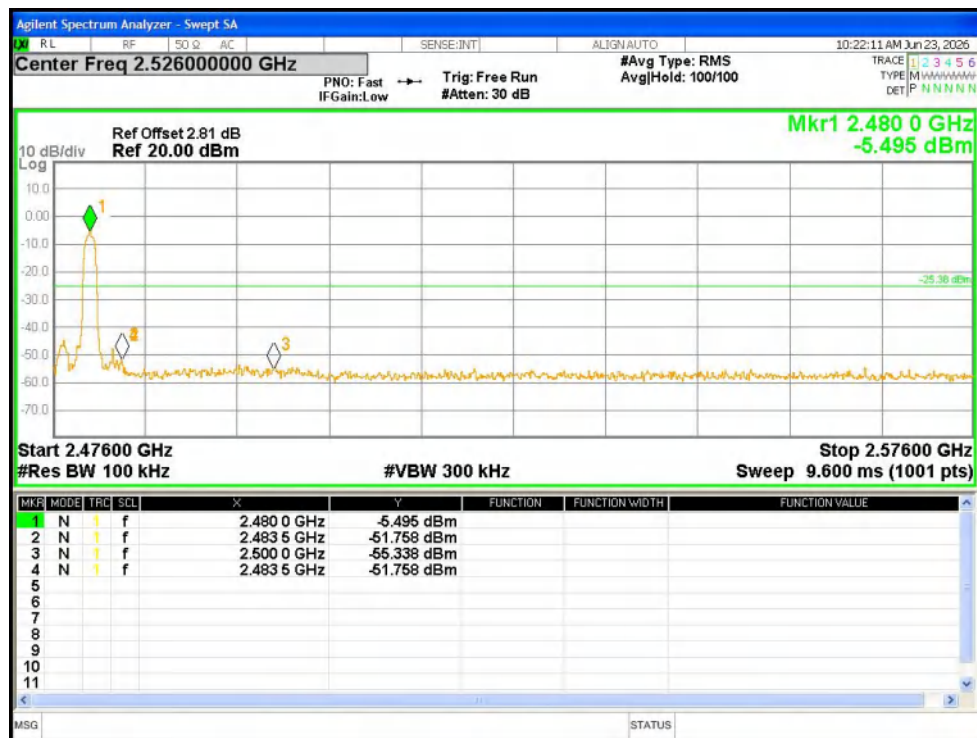
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

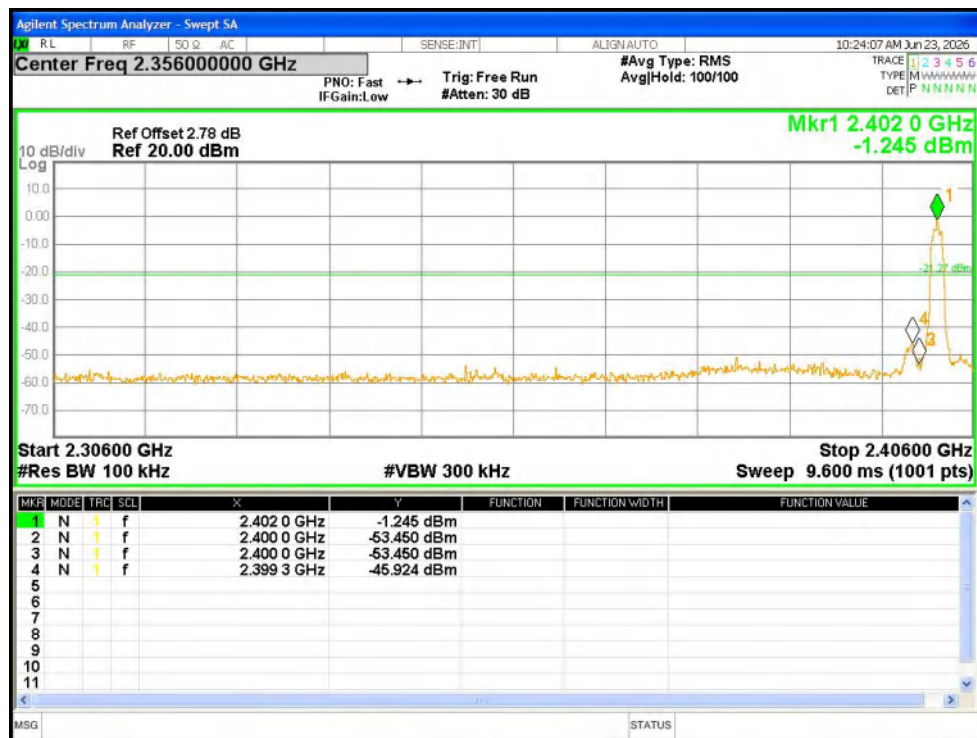


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

Report



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

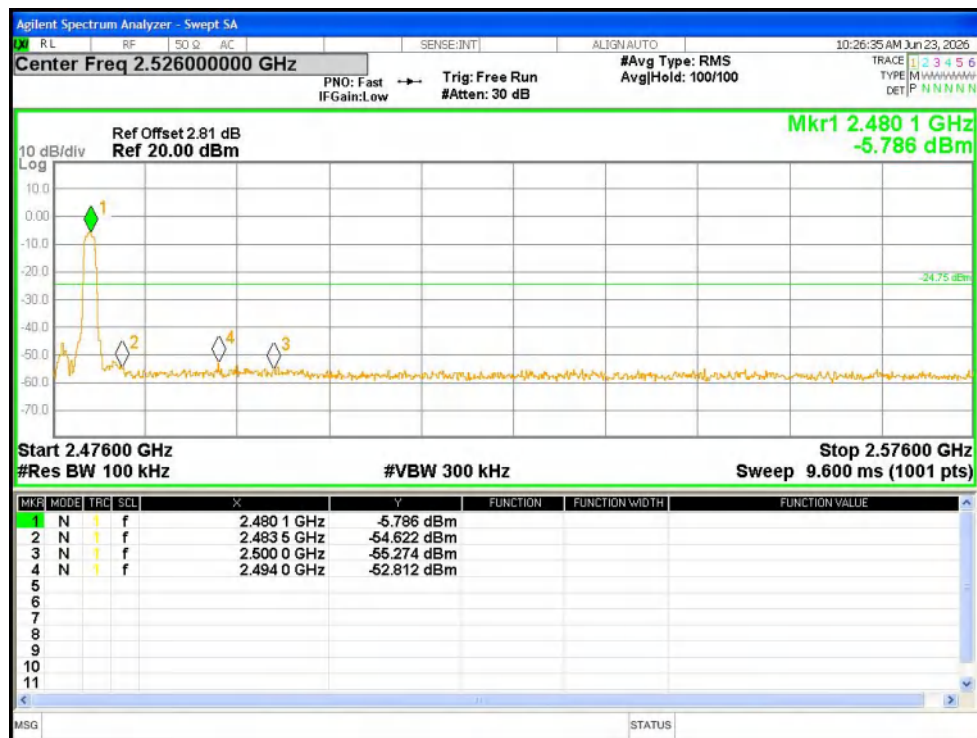


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

Report



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



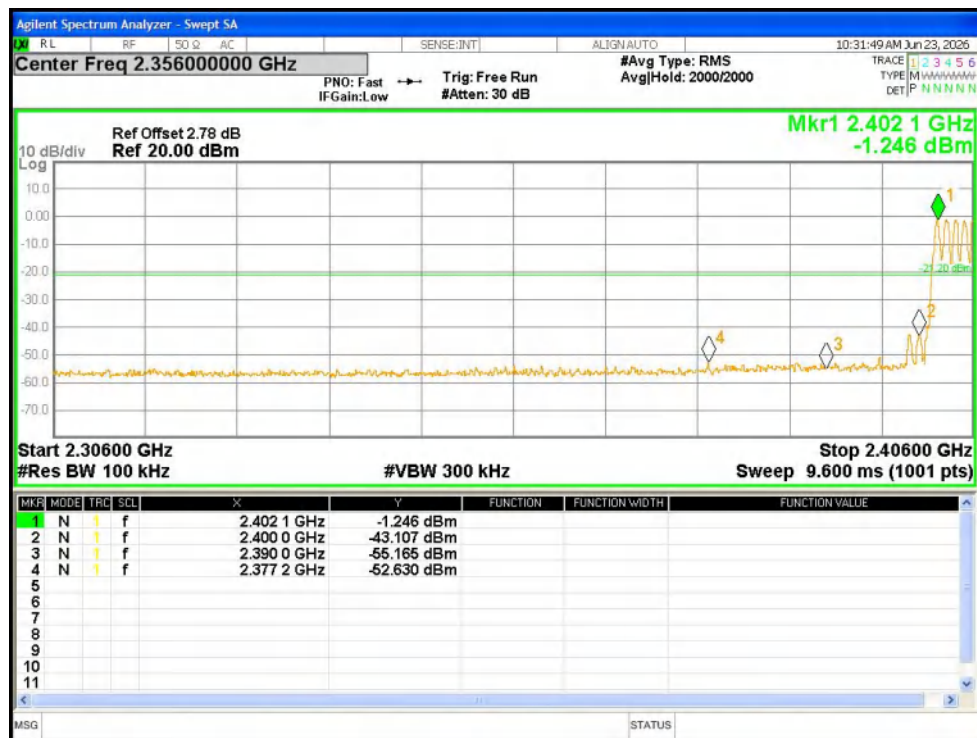
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

7. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.42	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-47.61	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.35	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-48.85	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.14	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.2	-20	Pass



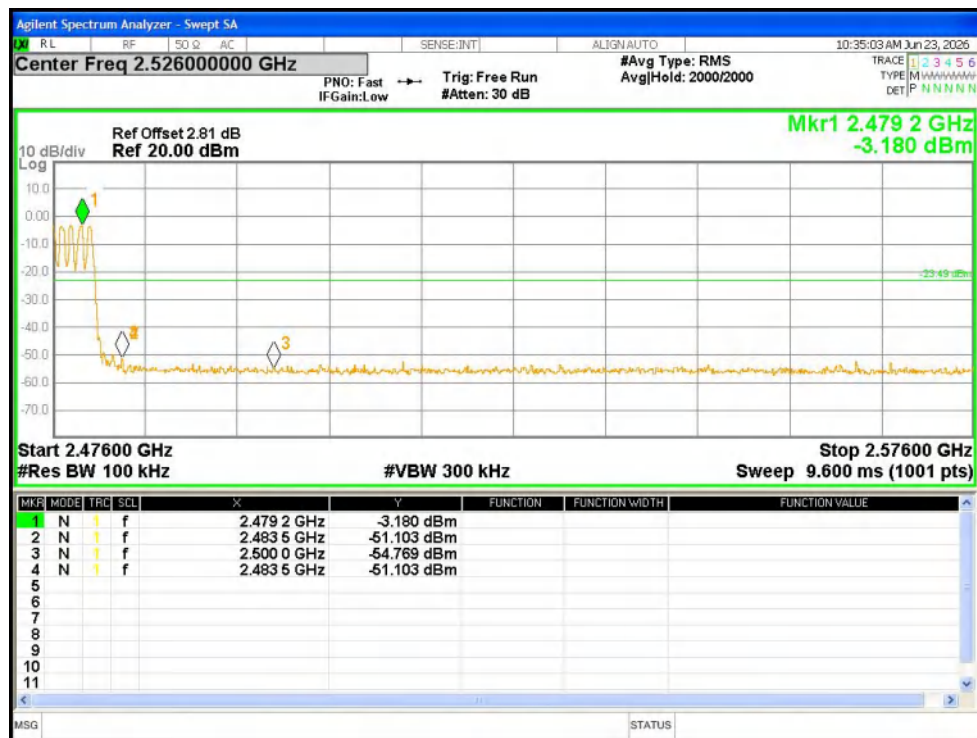
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



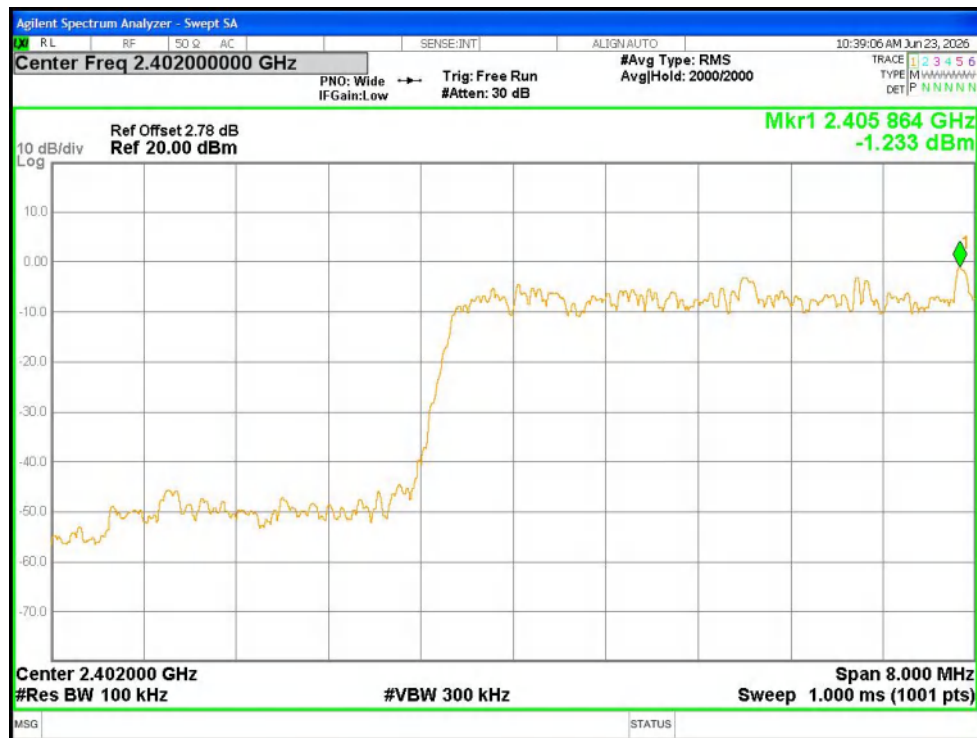
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



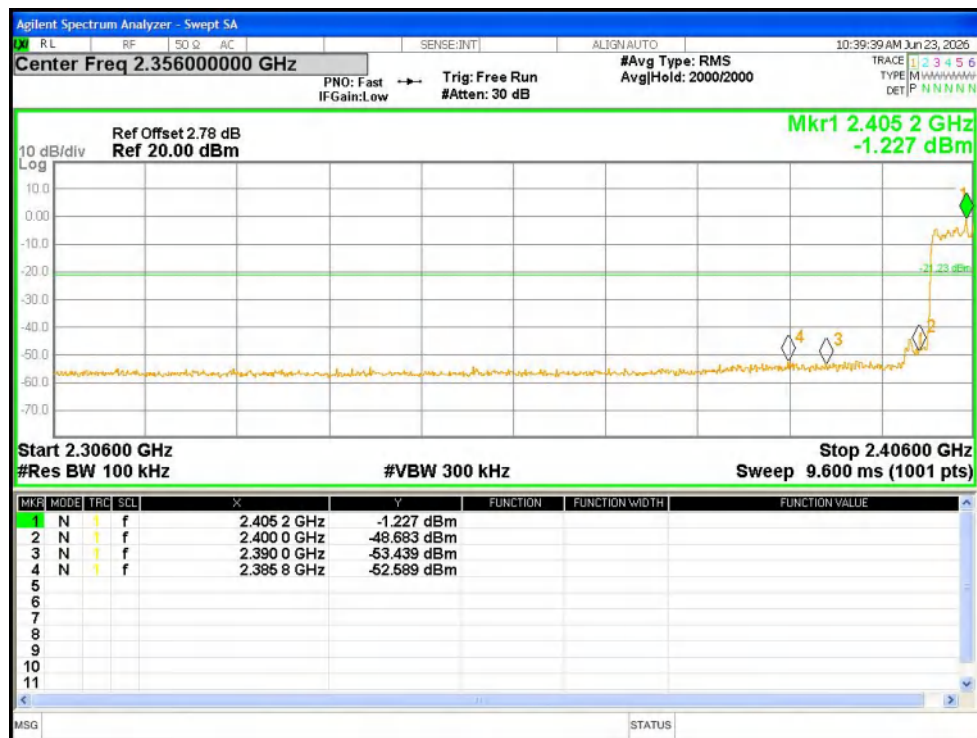
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



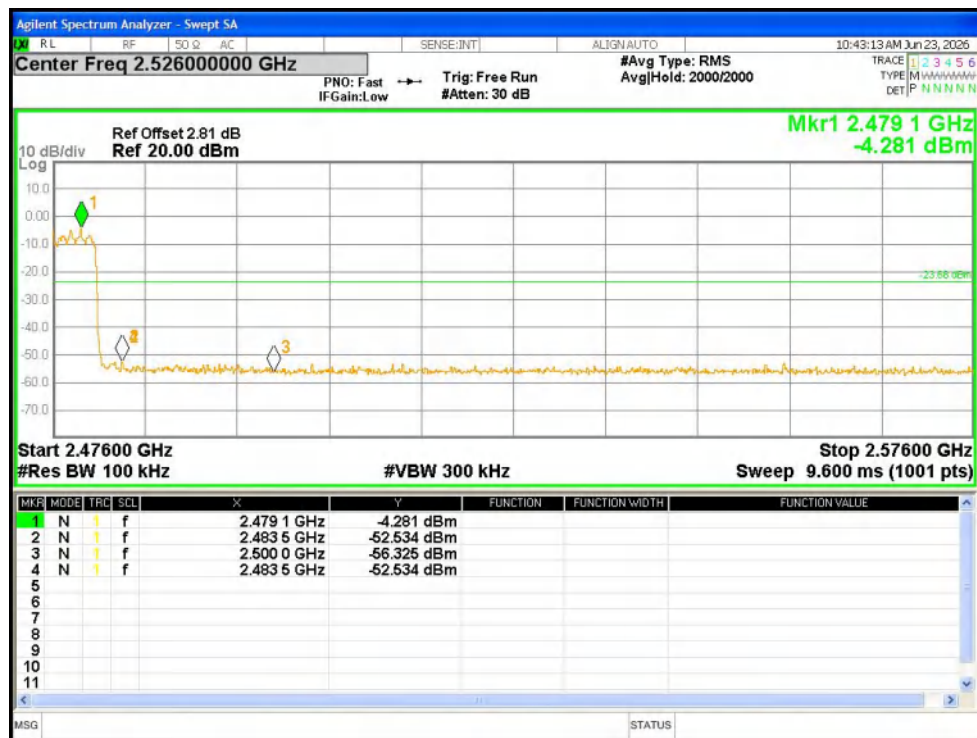
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



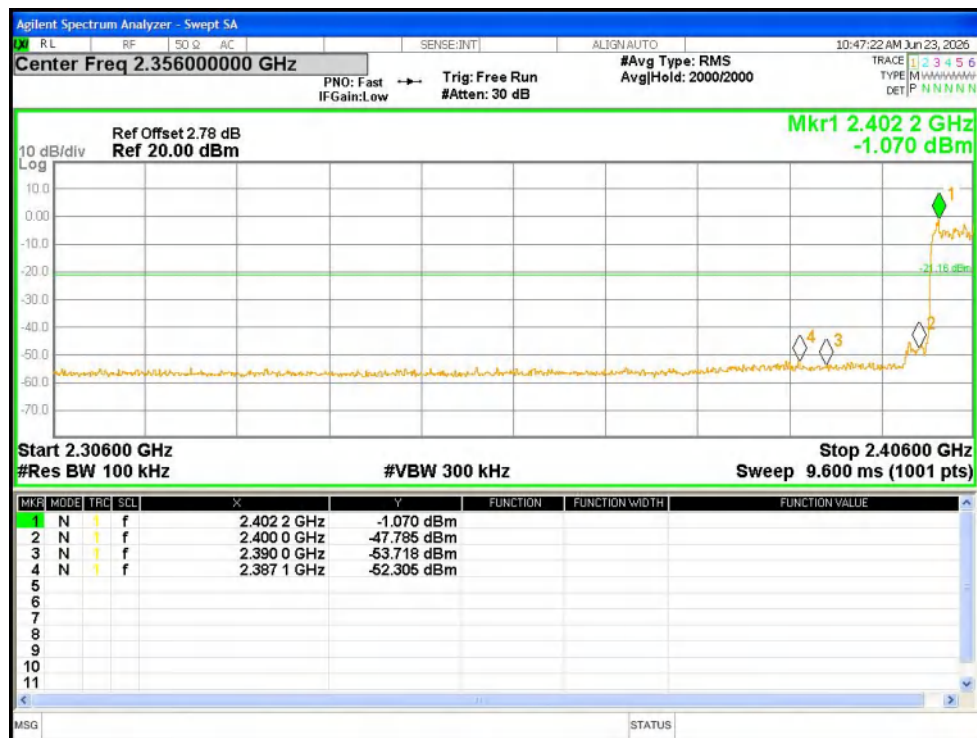
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



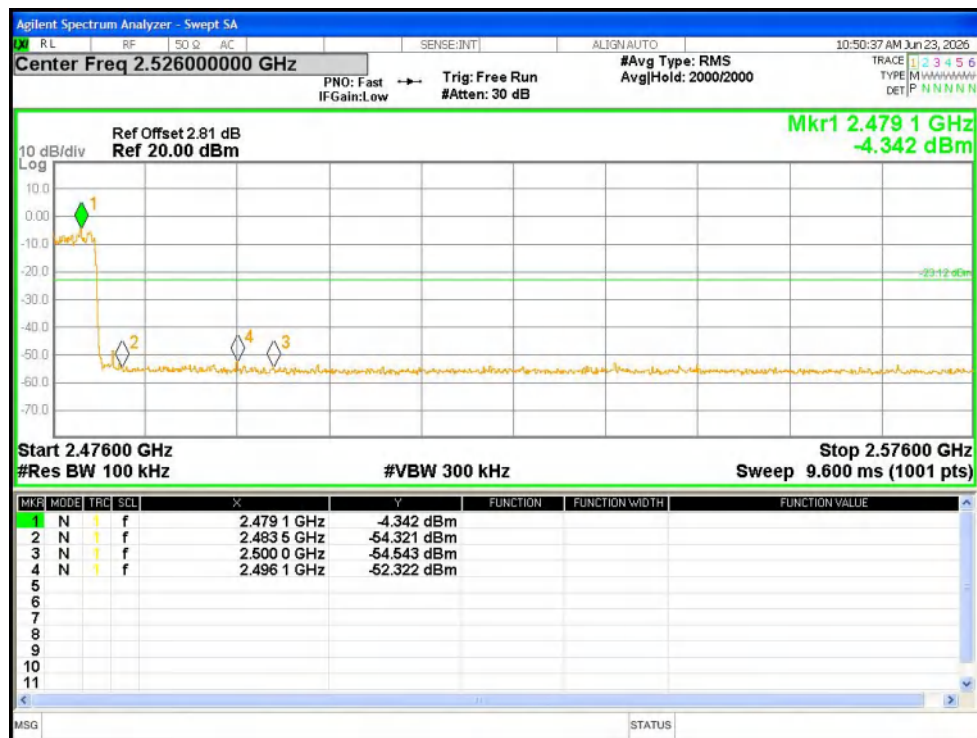
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

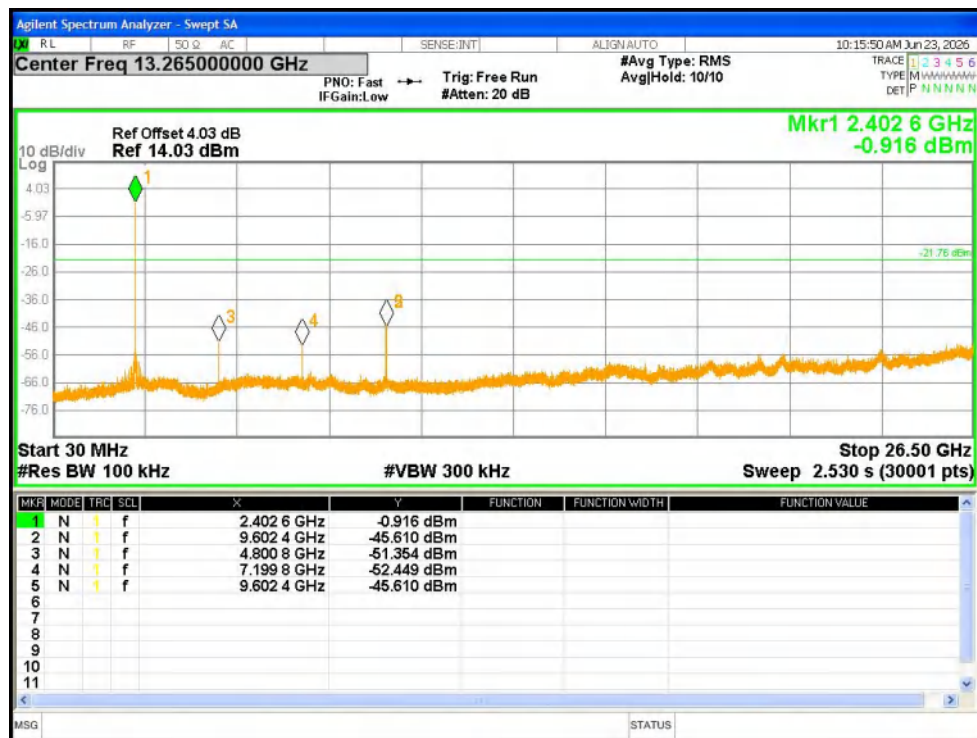
8. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-43.84	-20	Pass
NVNT	1-DH5	2441	Ant1	-44.03	-20	Pass
NVNT	1-DH5	2480	Ant1	-45.43	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.2	-20	Pass
NVNT	2-DH5	2441	Ant1	-44.17	-20	Pass
NVNT	2-DH5	2480	Ant1	-45.42	-20	Pass
NVNT	3-DH5	2402	Ant1	-44.53	-20	Pass
NVNT	3-DH5	2441	Ant1	-43.96	-20	Pass
NVNT	3-DH5	2480	Ant1	-45.63	-20	Pass

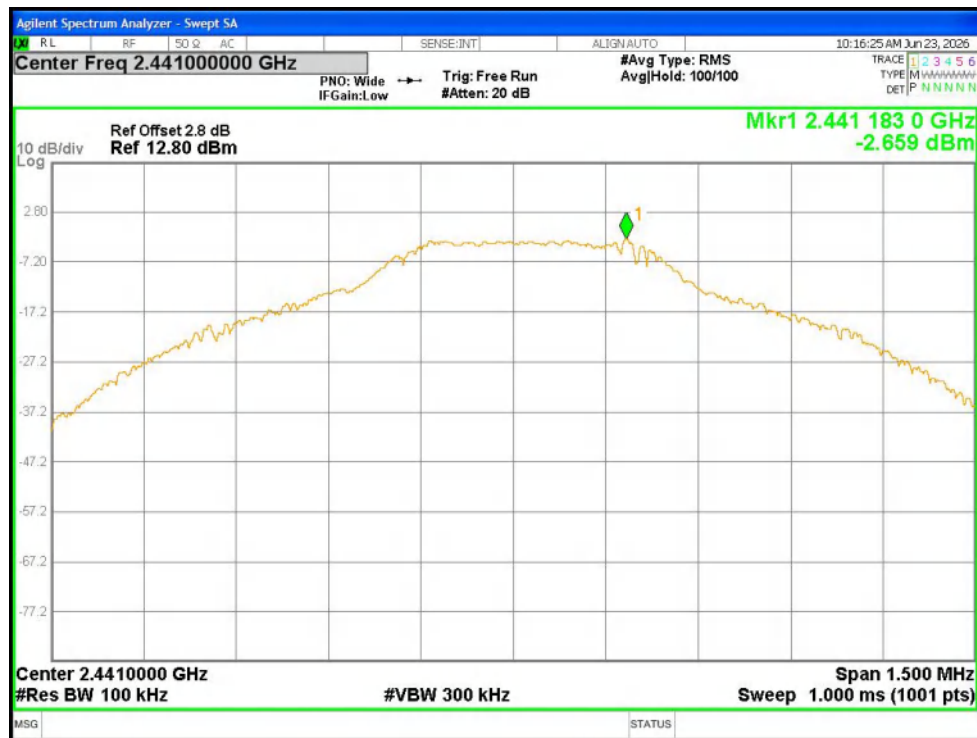
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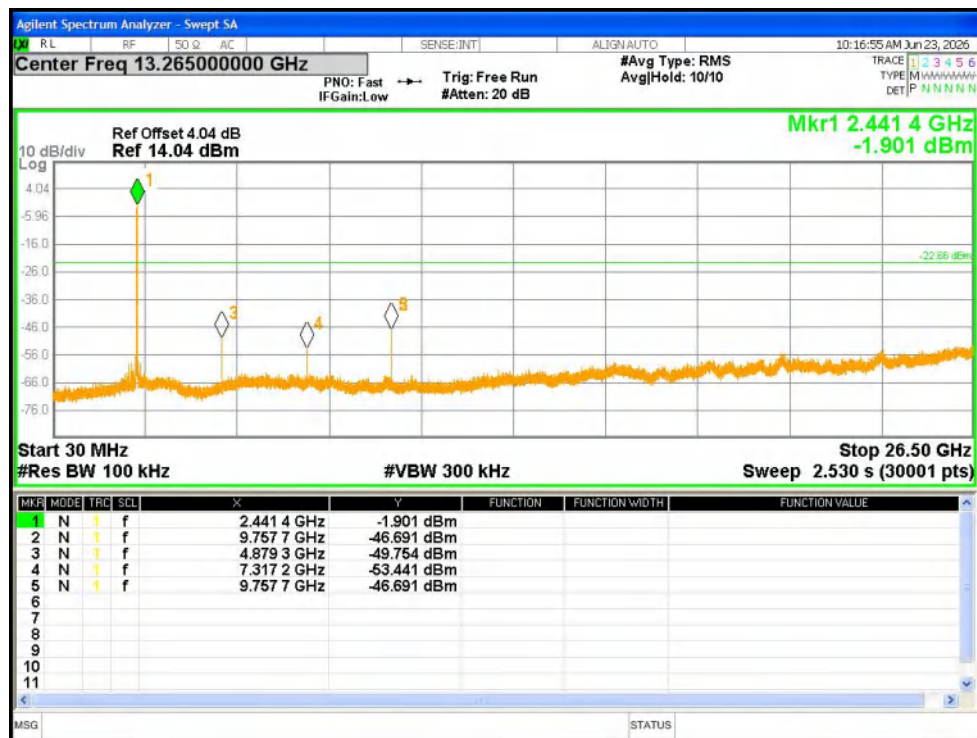
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

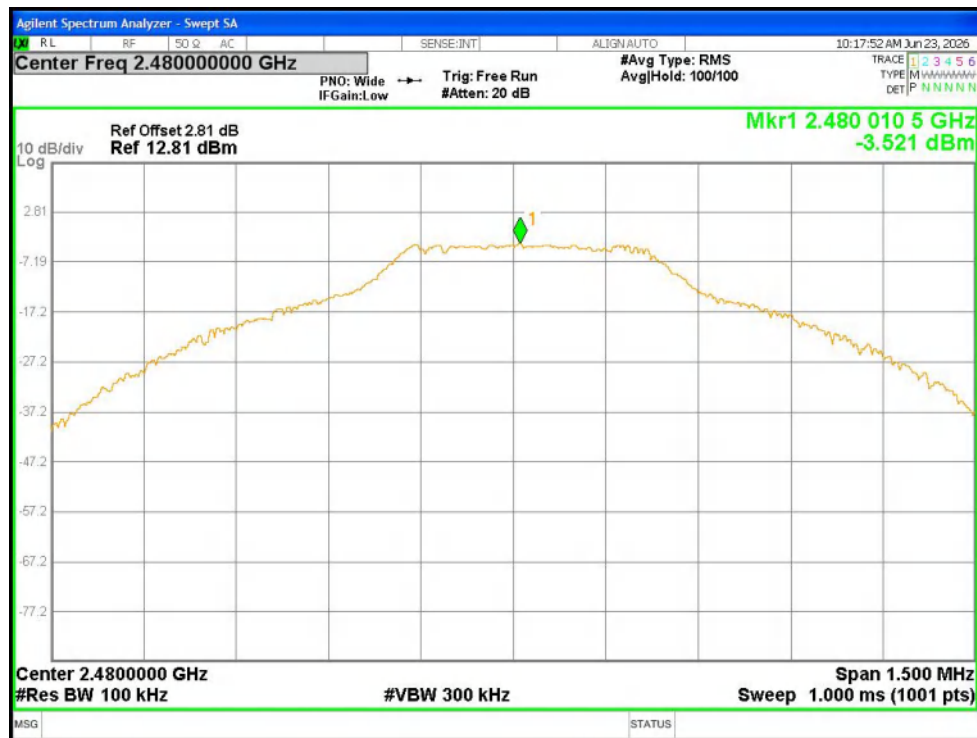


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

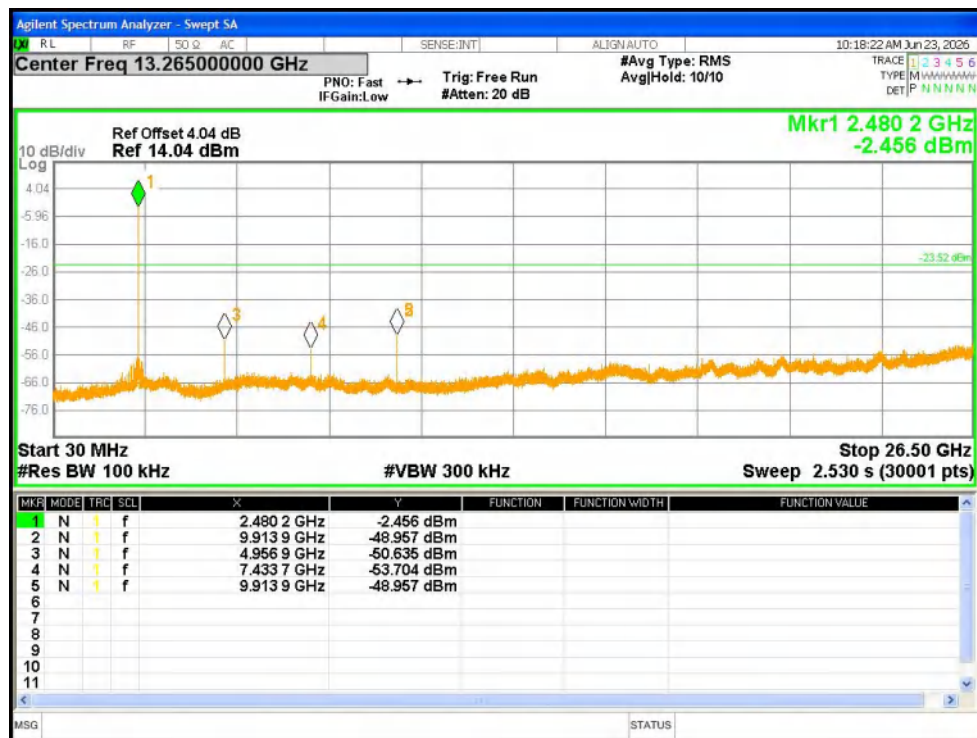


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

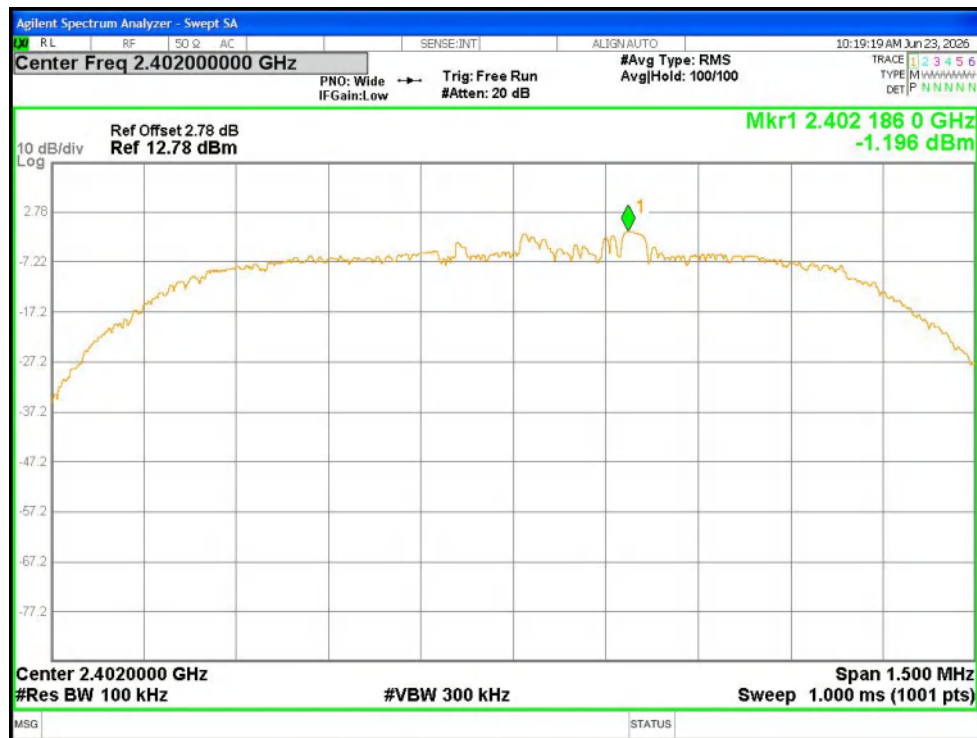
Report



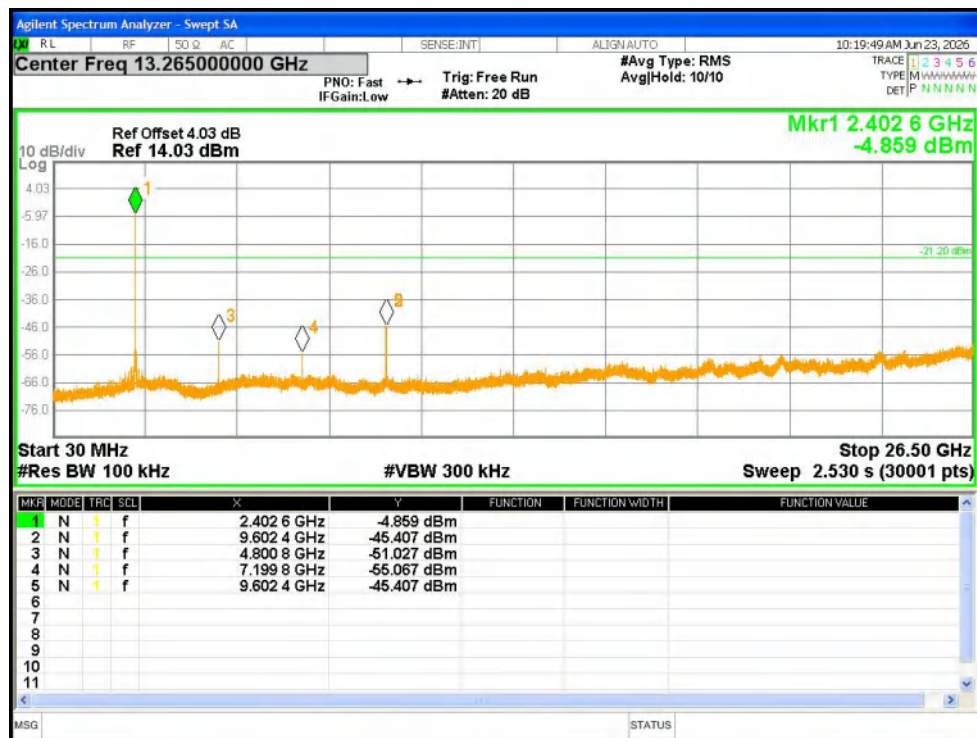
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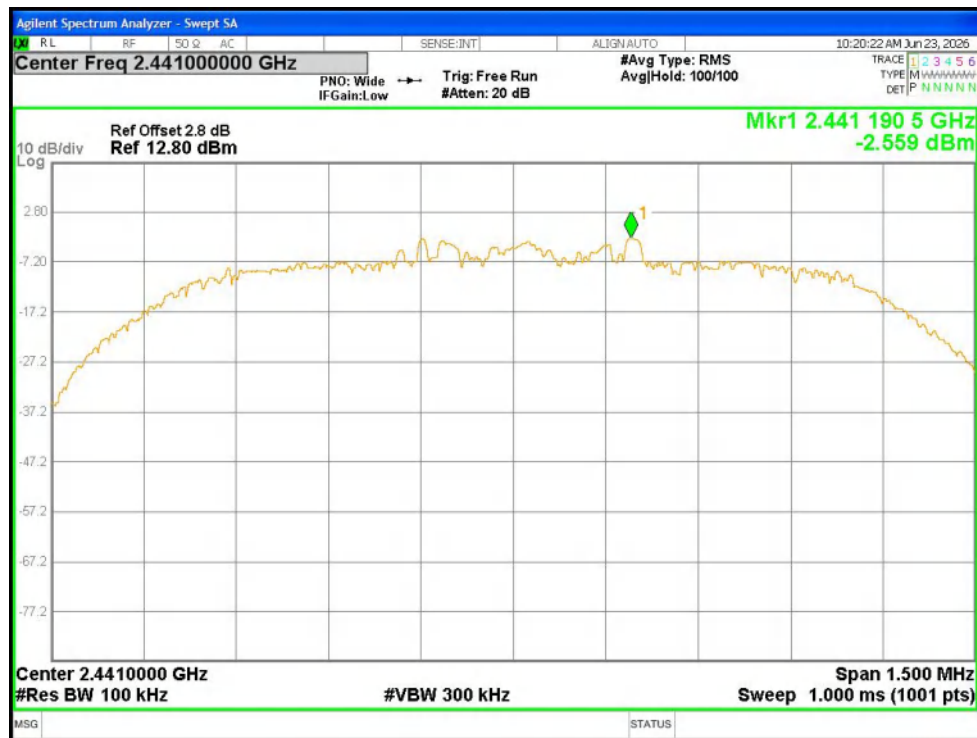
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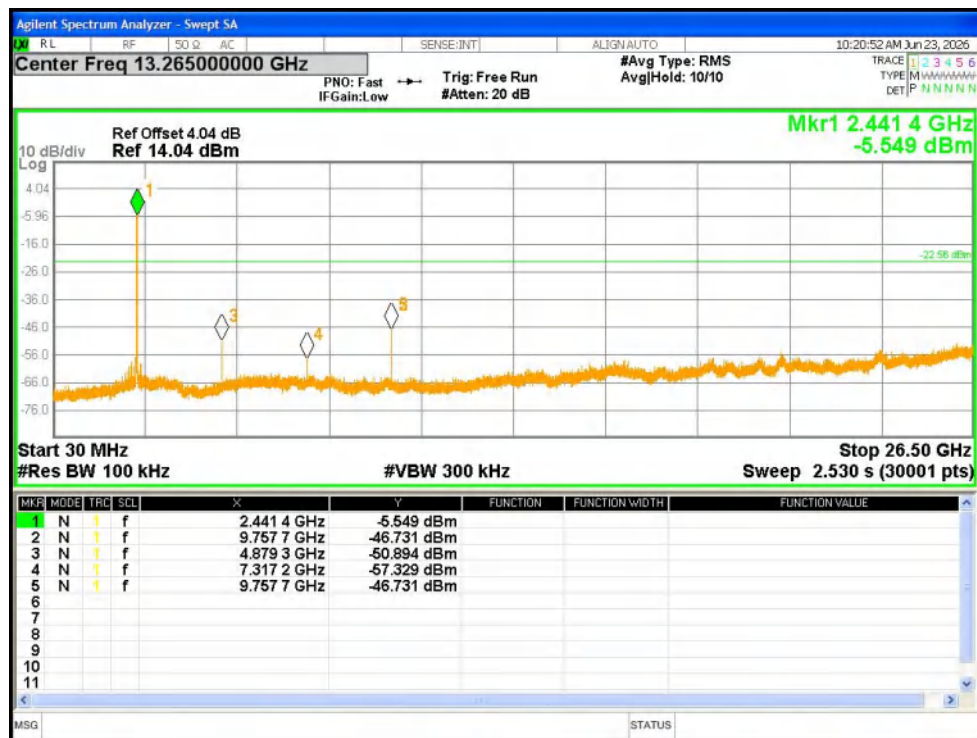
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



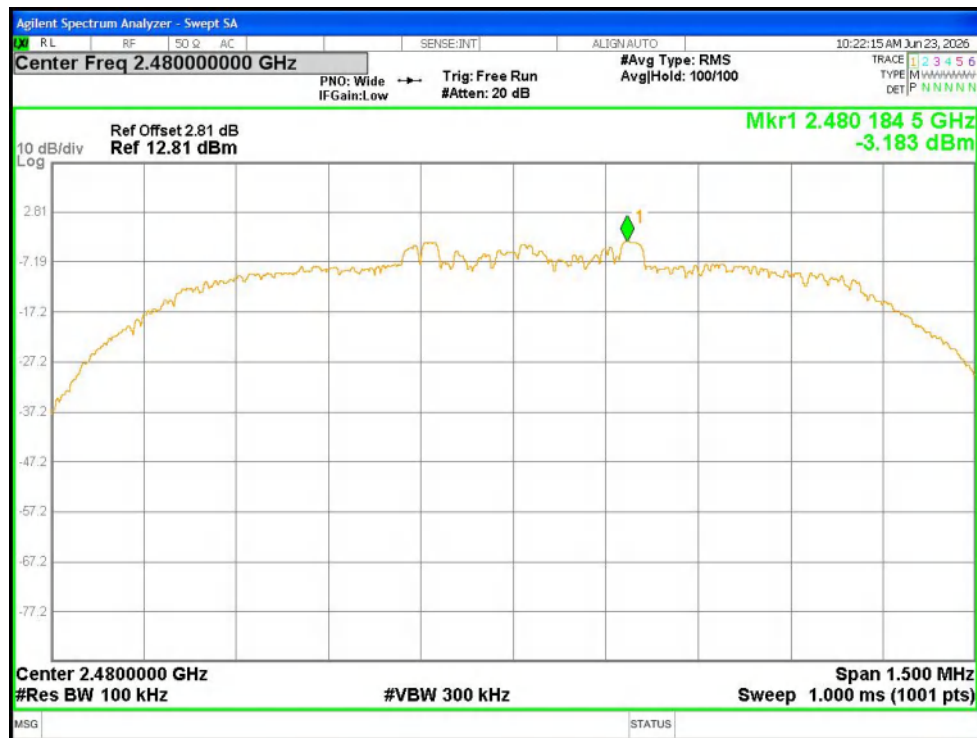
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



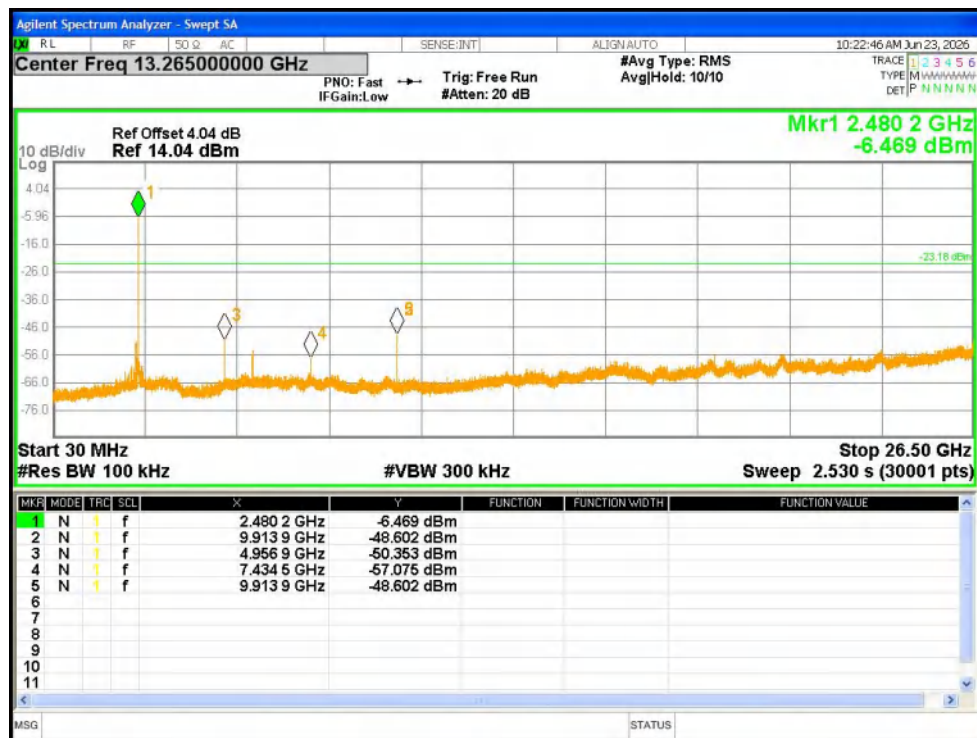
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



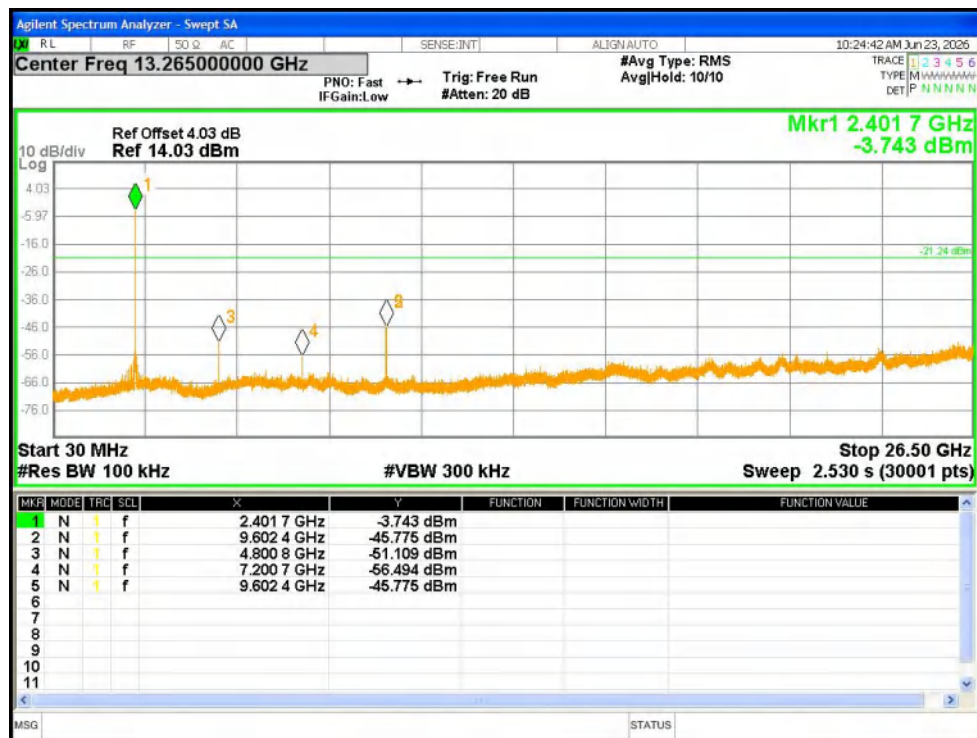
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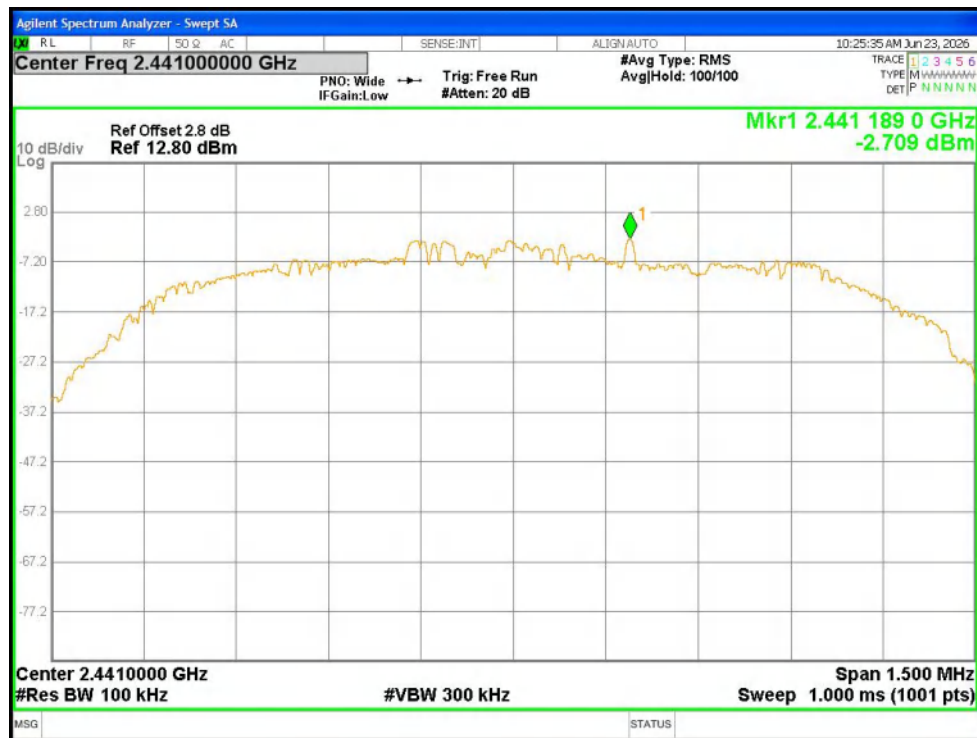
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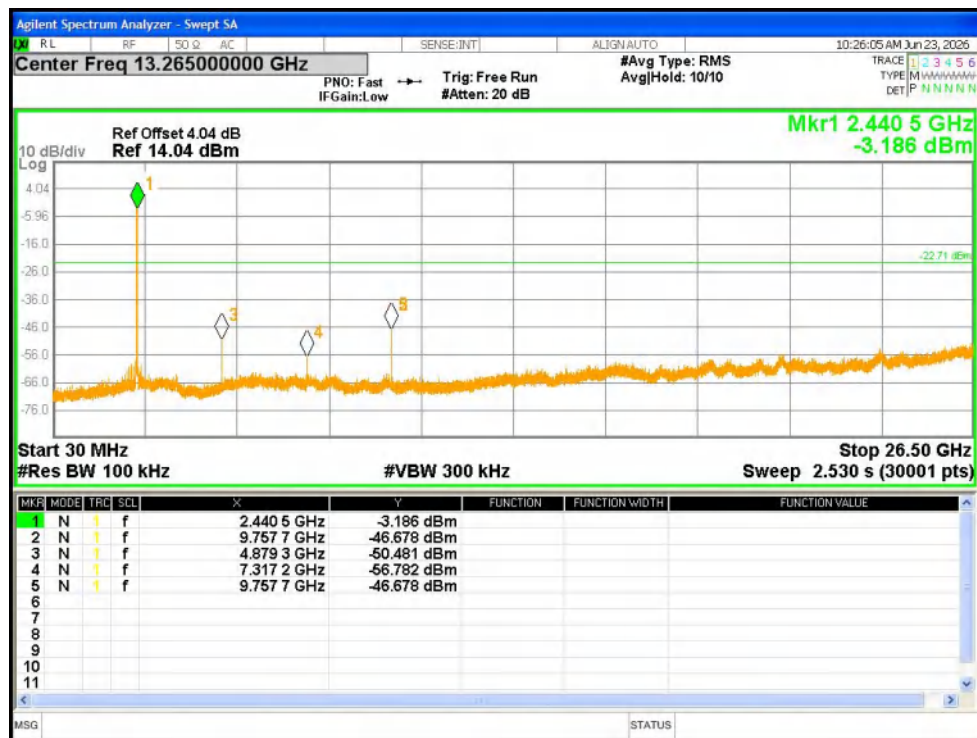
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

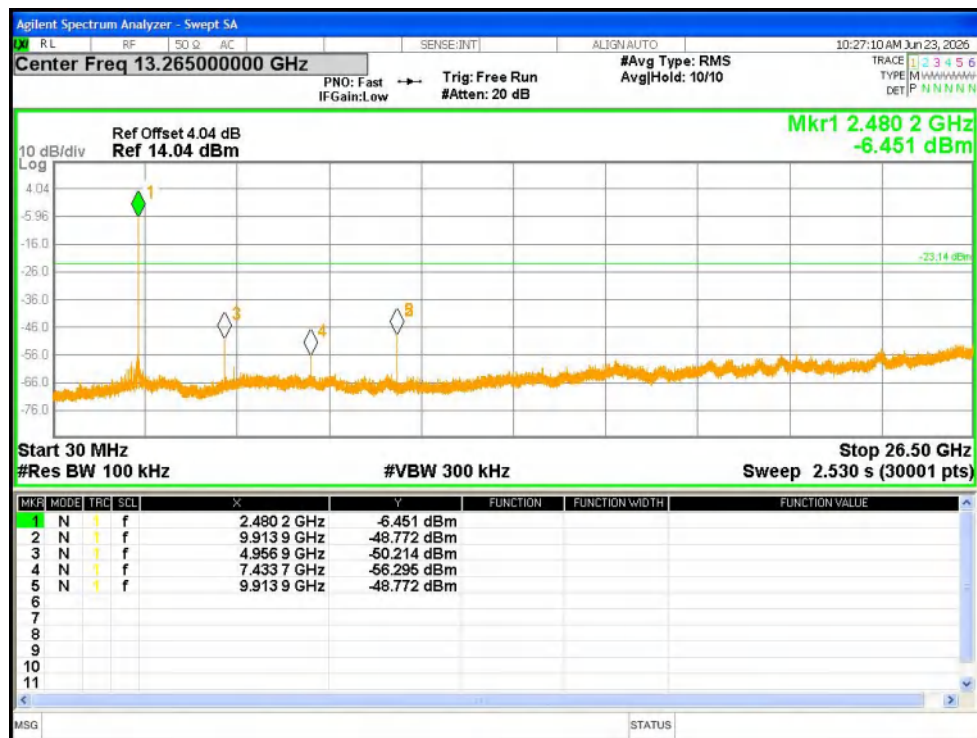


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

Report



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission