



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: 11.6inch Portable DVD Player

Test Model: DP-3310K

Environmental Conditions

Temperature:	24.8° C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.959	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.956	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.945	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.309	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

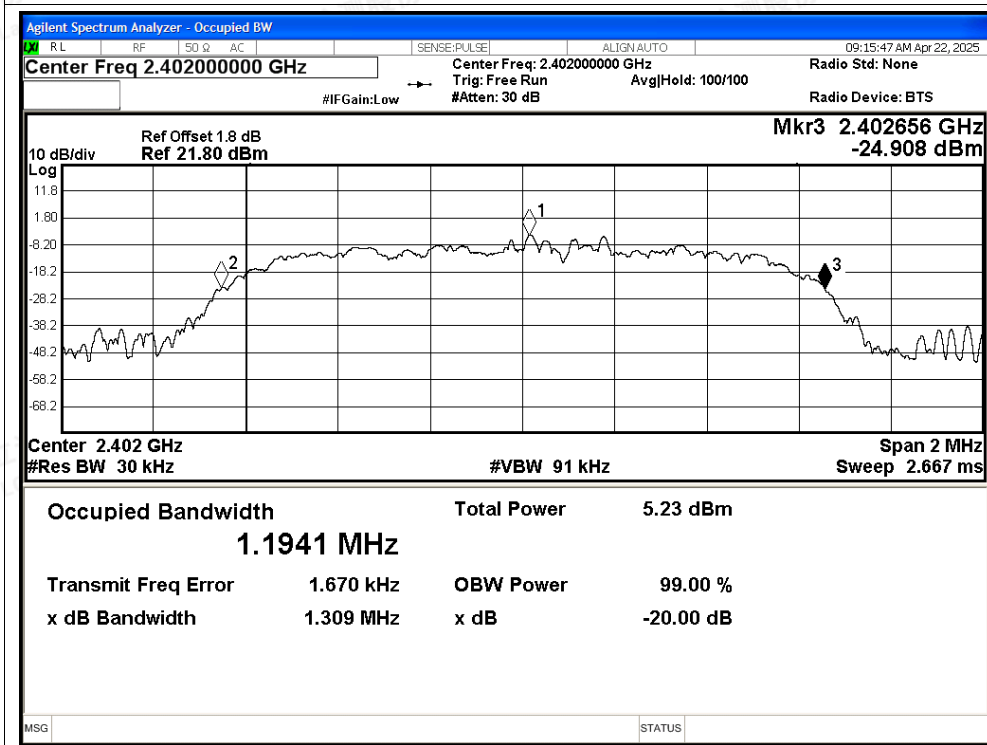




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

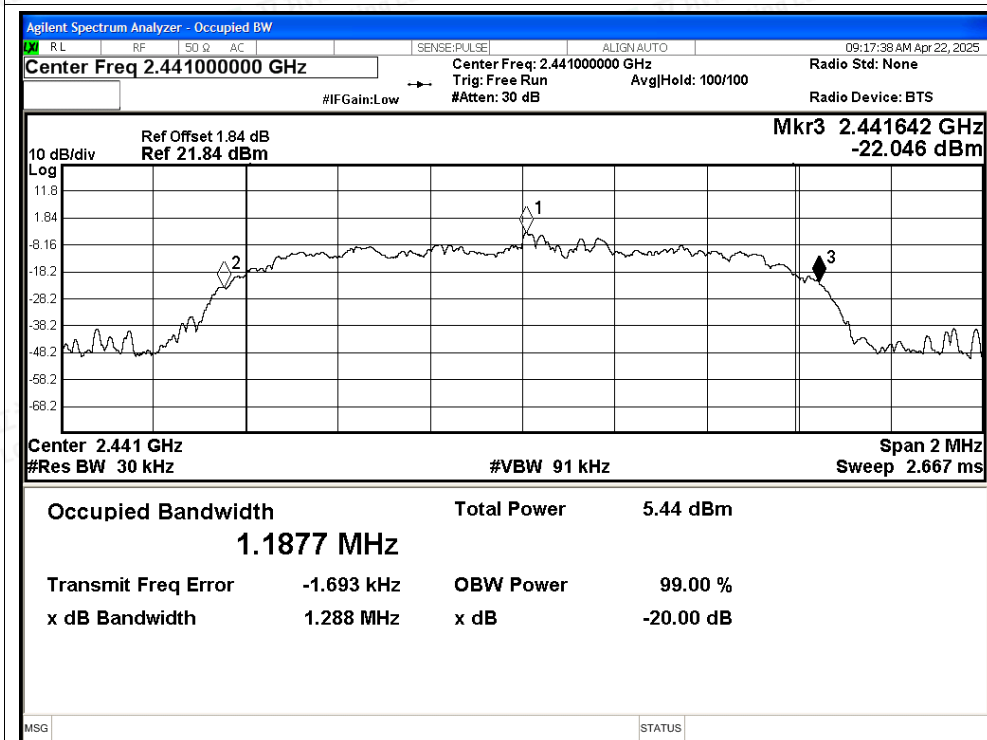


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

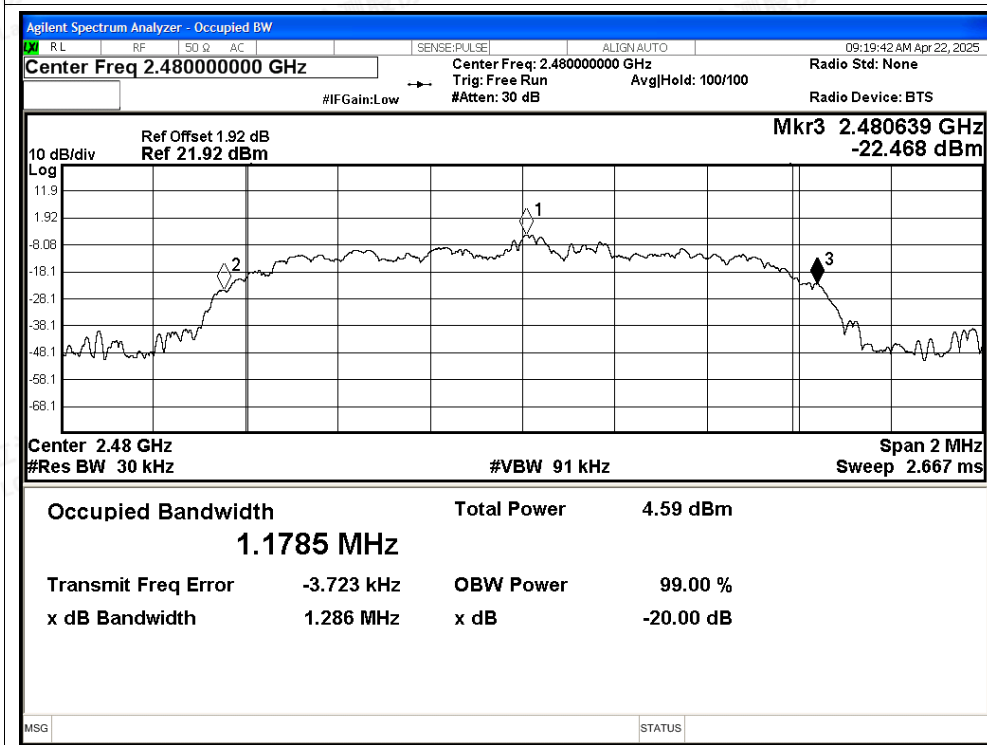




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.67	21	Pass
NVNT	1-DH5	2441	Ant1	-0.48	21	Pass
NVNT	1-DH5	2480	Ant1	-1.89	21	Pass
NVNT	2-DH5	2402	Ant1	1.12	21	Pass
NVNT	2-DH5	2441	Ant1	1.3	21	Pass
NVNT	2-DH5	2480	Ant1	0.15	21	Pass

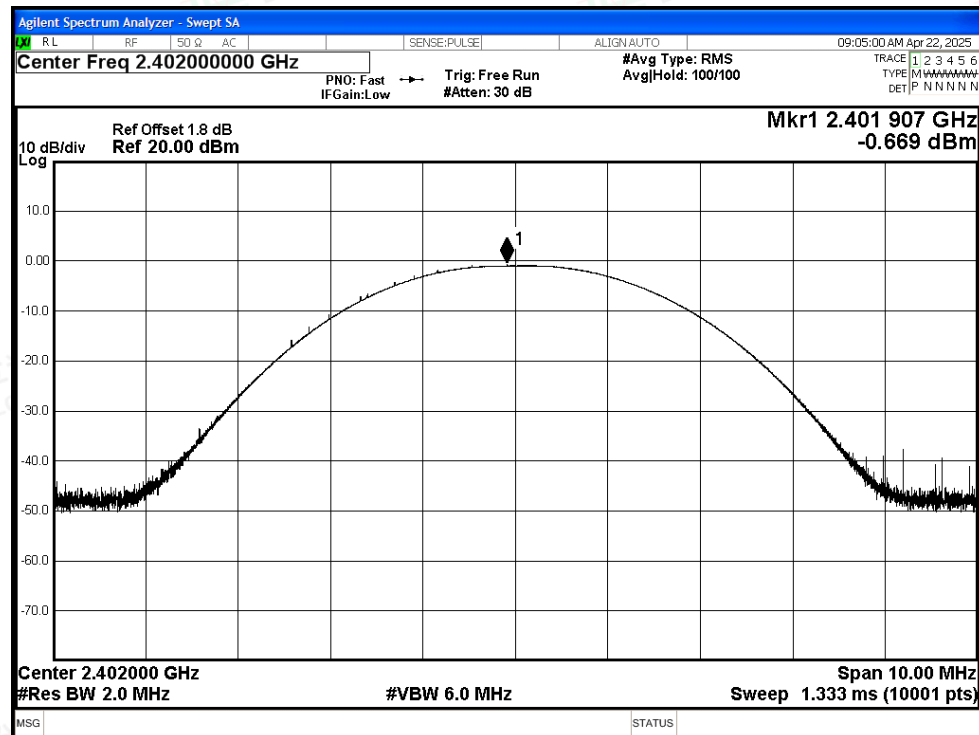


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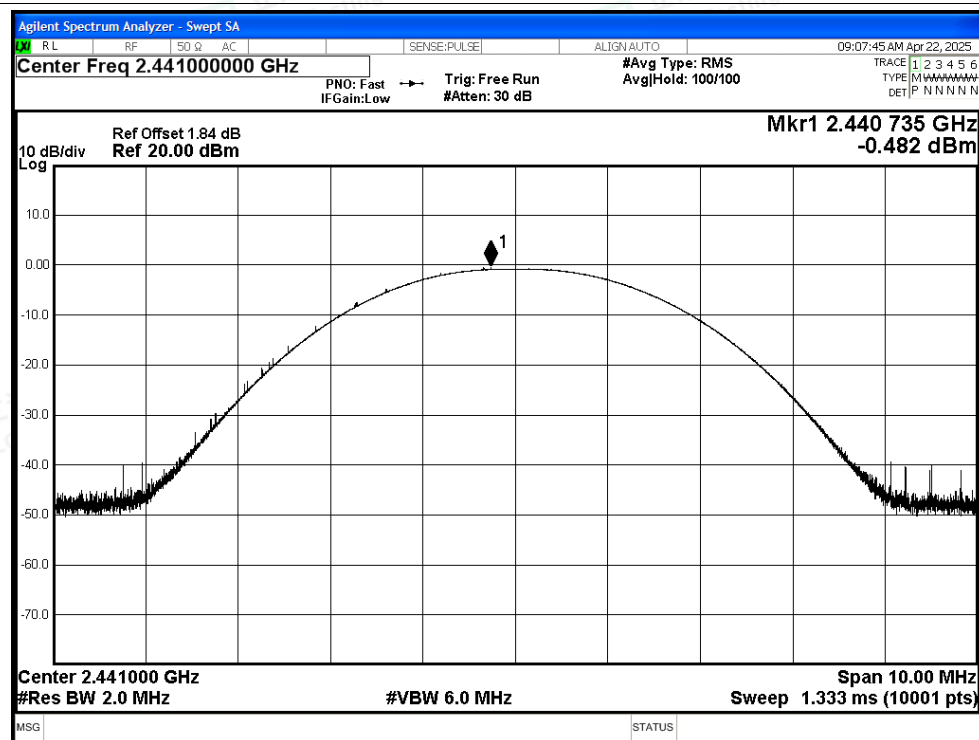


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

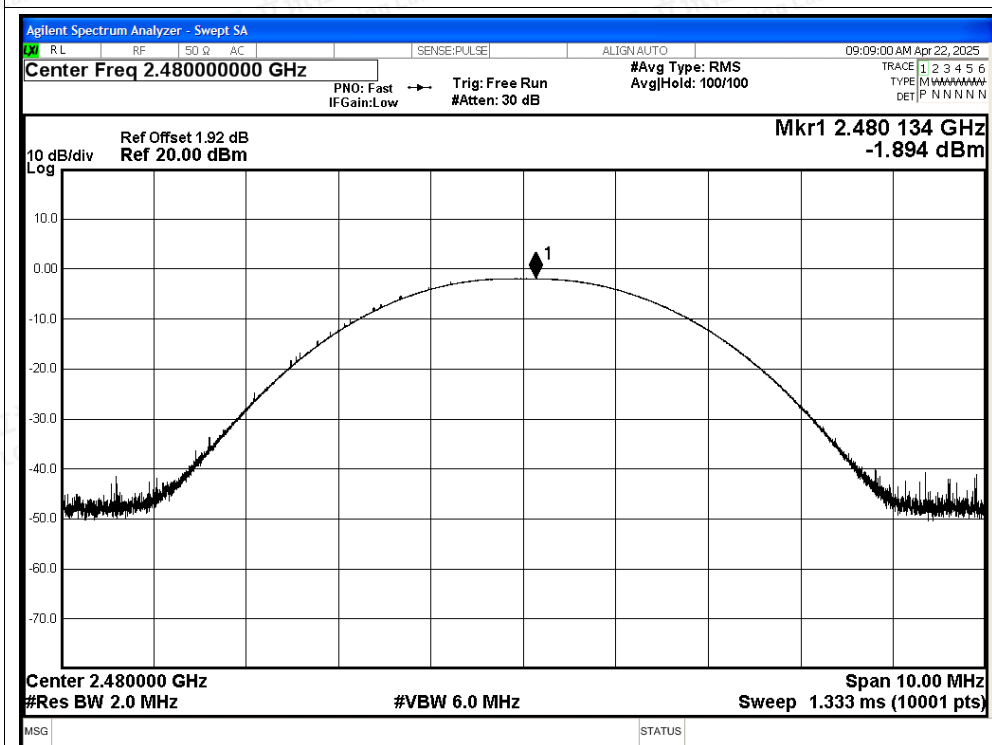


Power NVNT 1-DH5 2441MHz Ant1

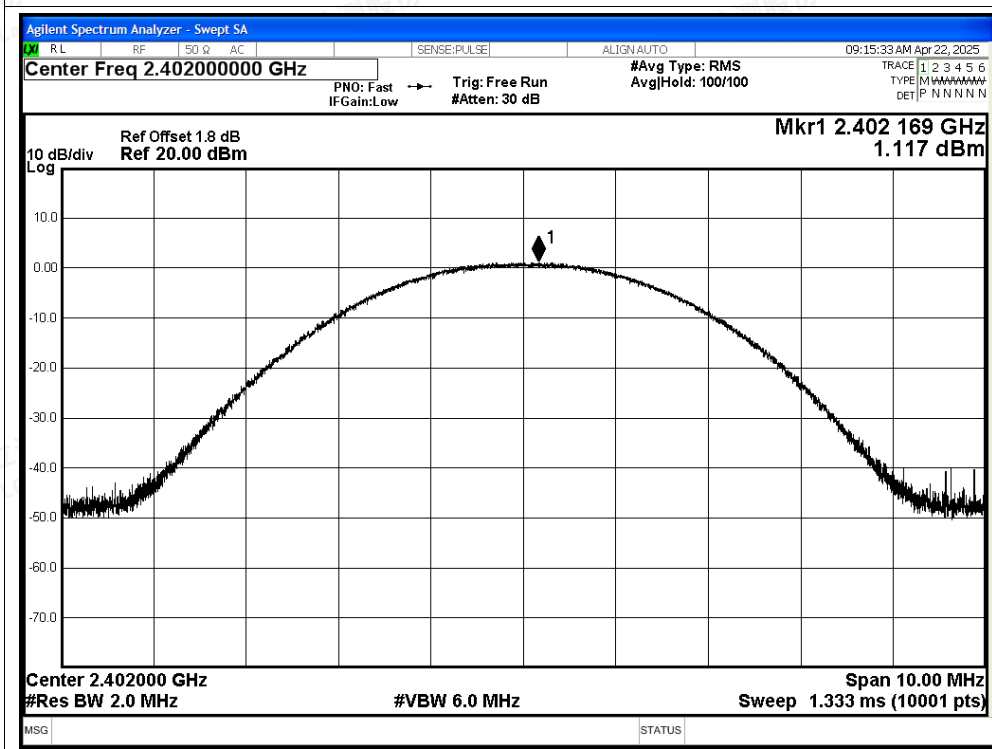




Power NVNT 1-DH5 2480MHz Ant1

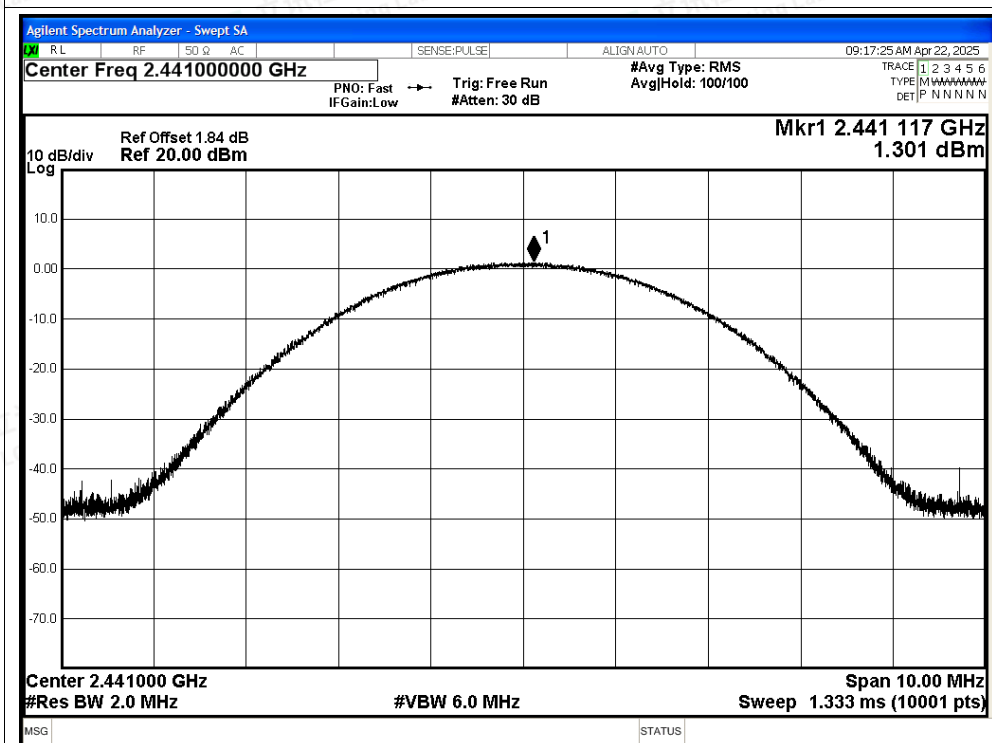


Power NVNT 2-DH5 2402MHz Ant1

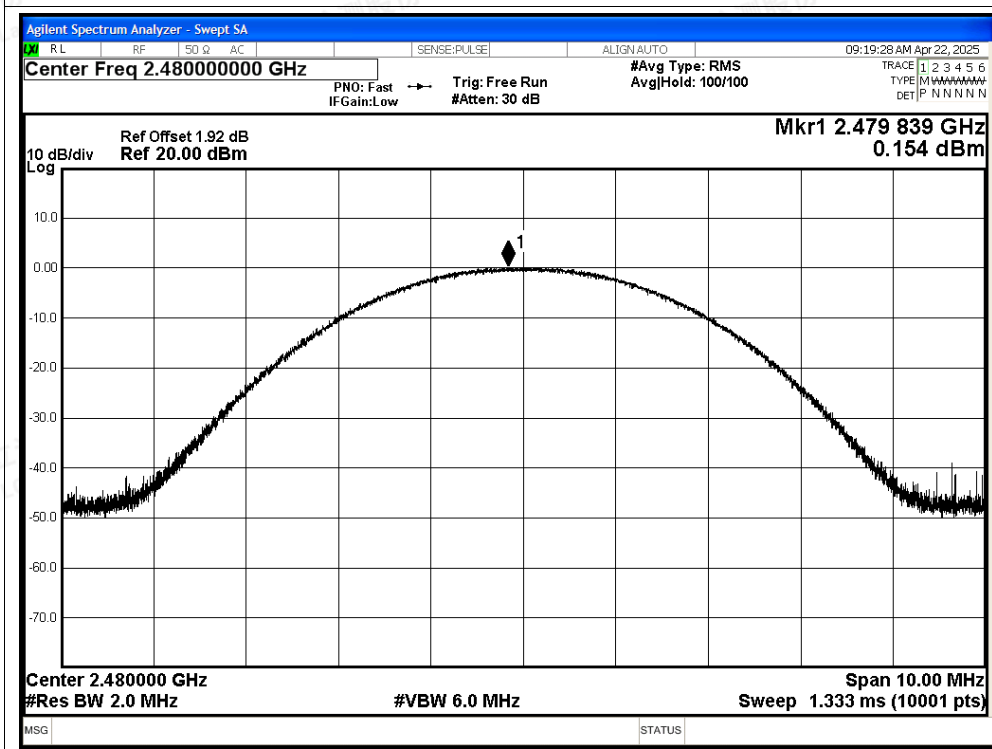




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.998	2402.99	0.992	0.639	Pass
NVNT	2-DH5	Ant1	2402.018	2403	0.982	0.873	Pass

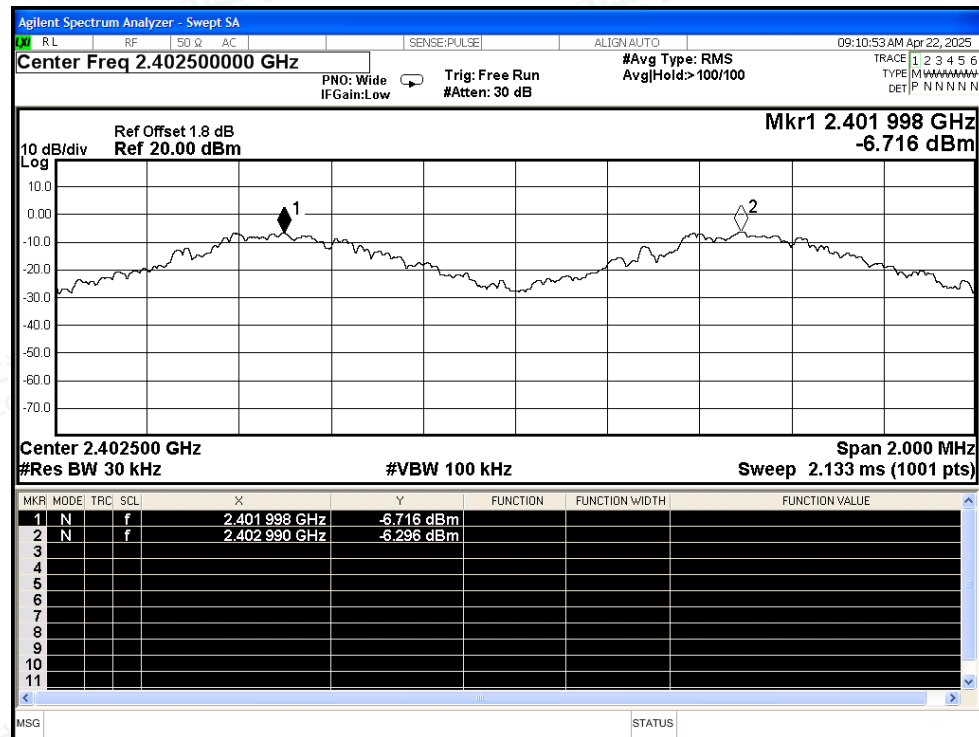


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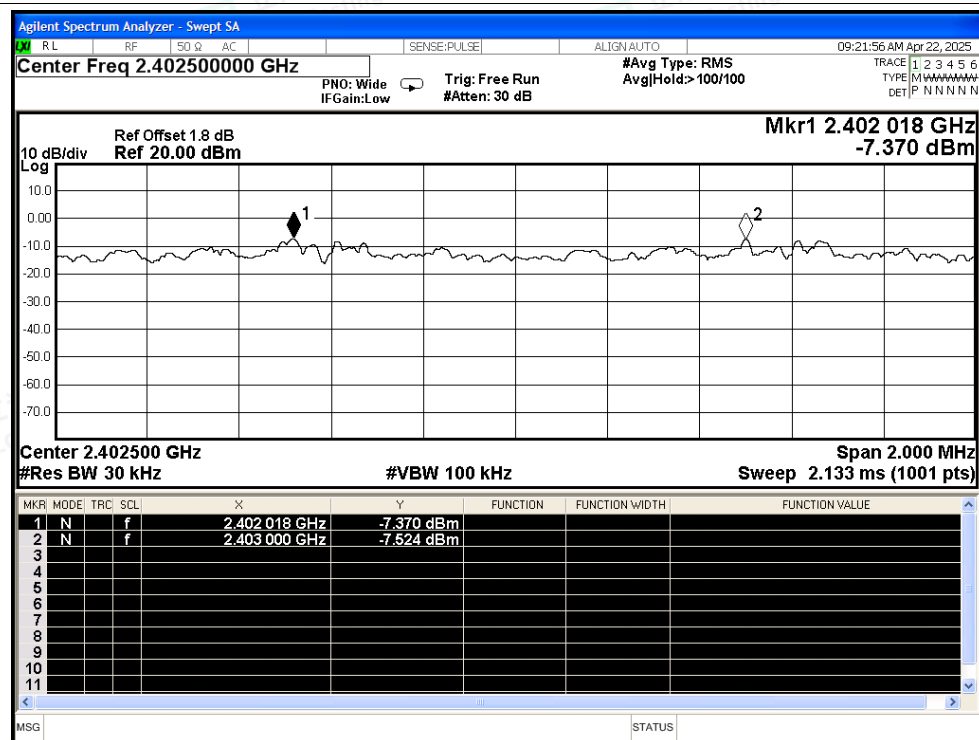


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1





A.4 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	2.91	291	100	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	310.086	107	31600	400	Pass

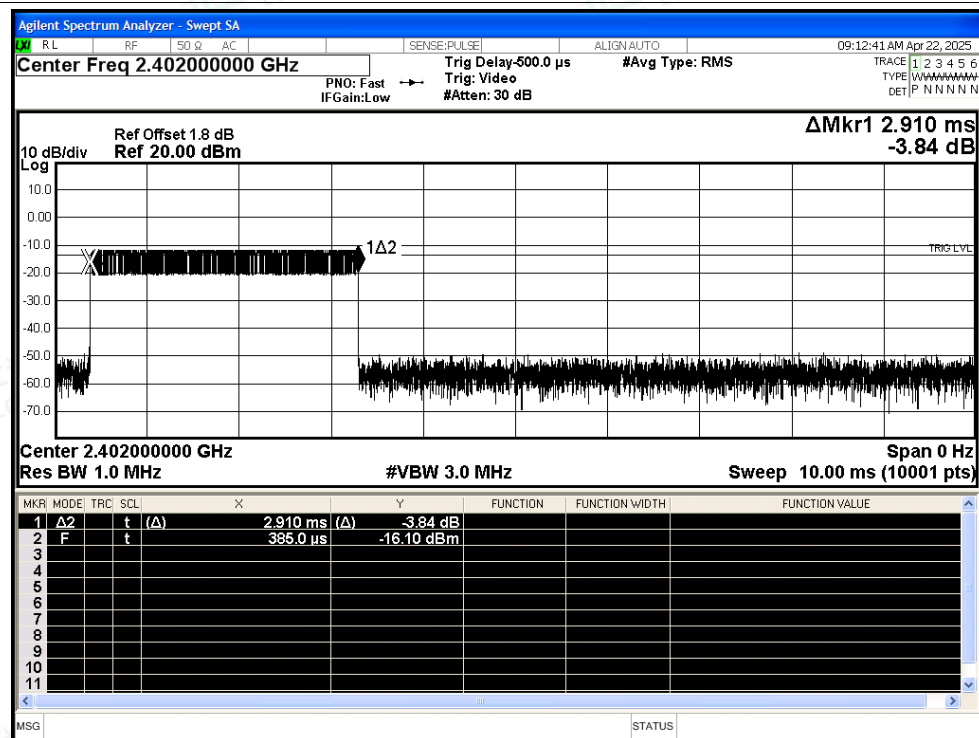


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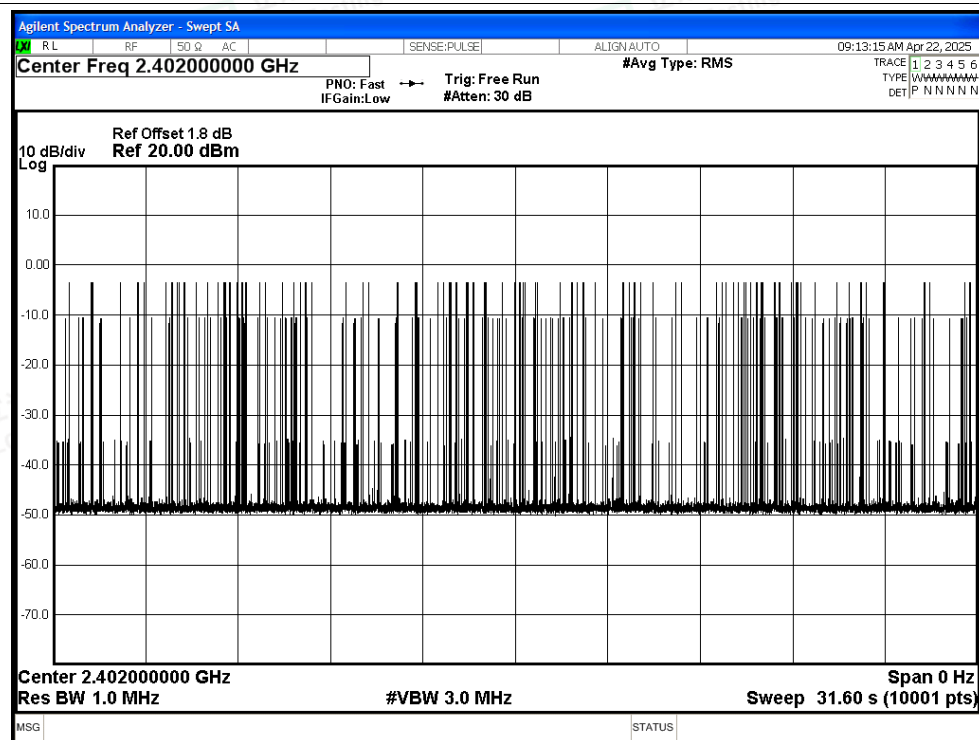


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

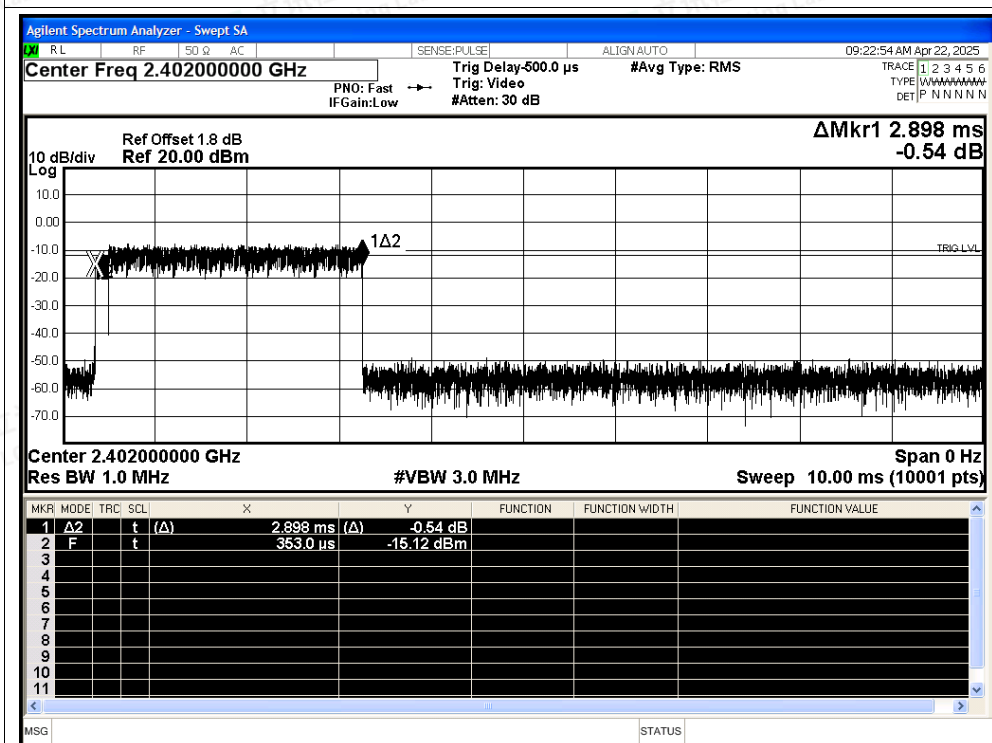
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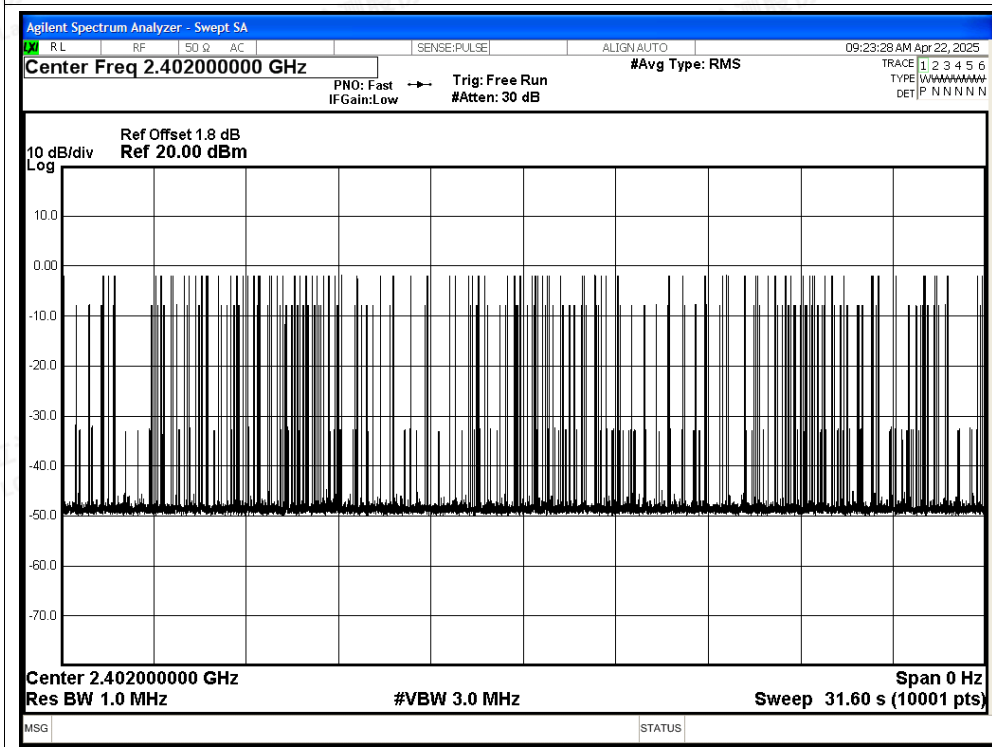
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 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

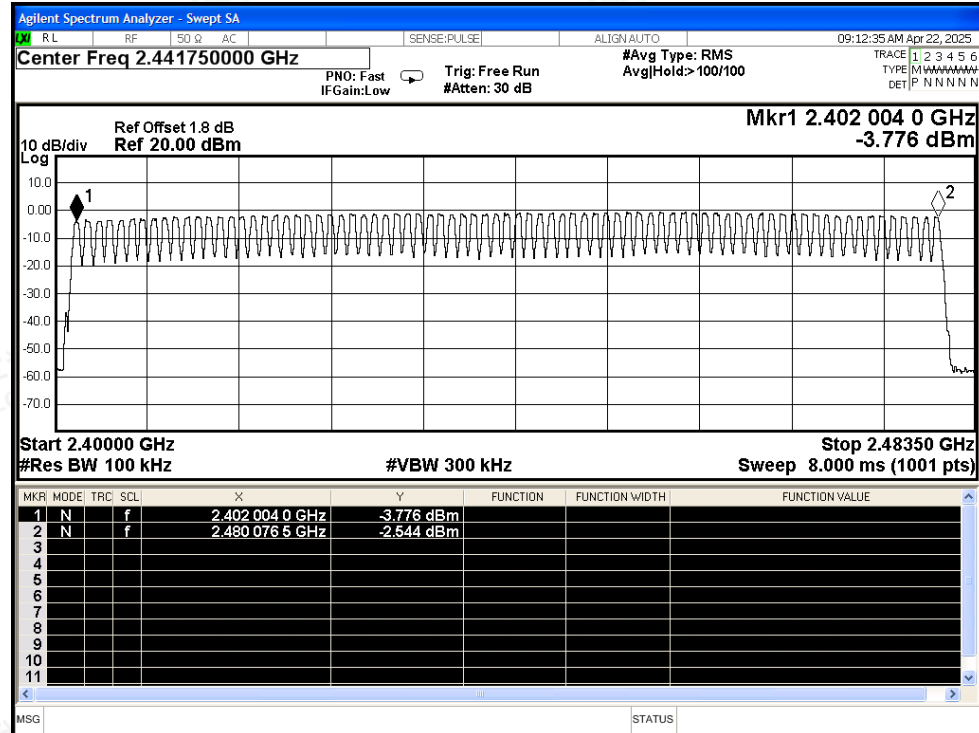


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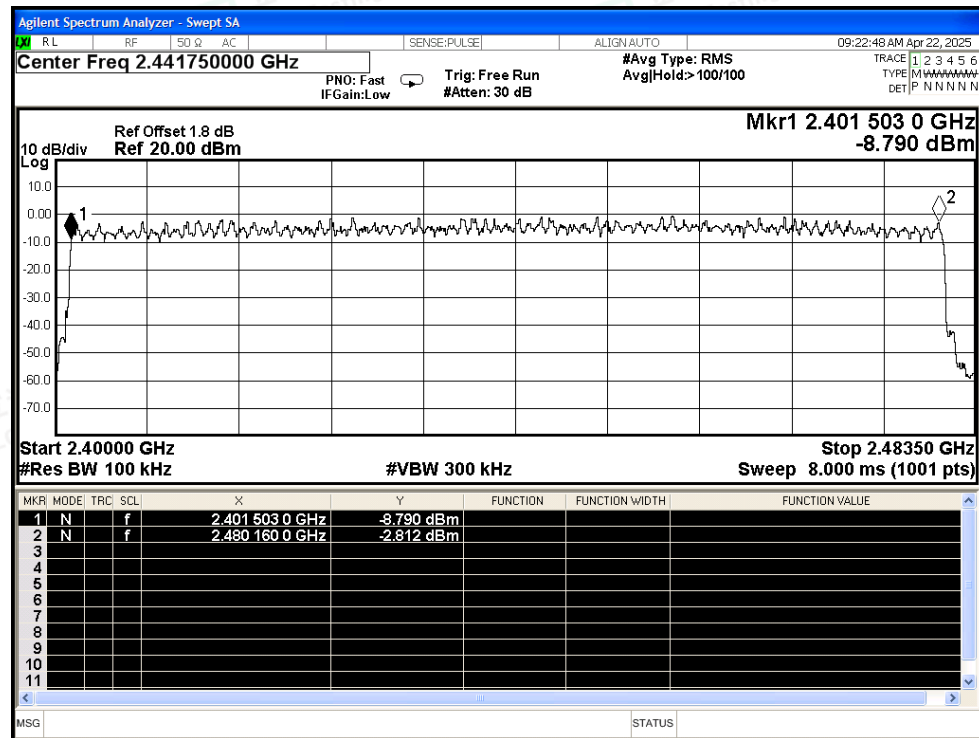


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.62	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.07	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.56	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.38	-20	Pass

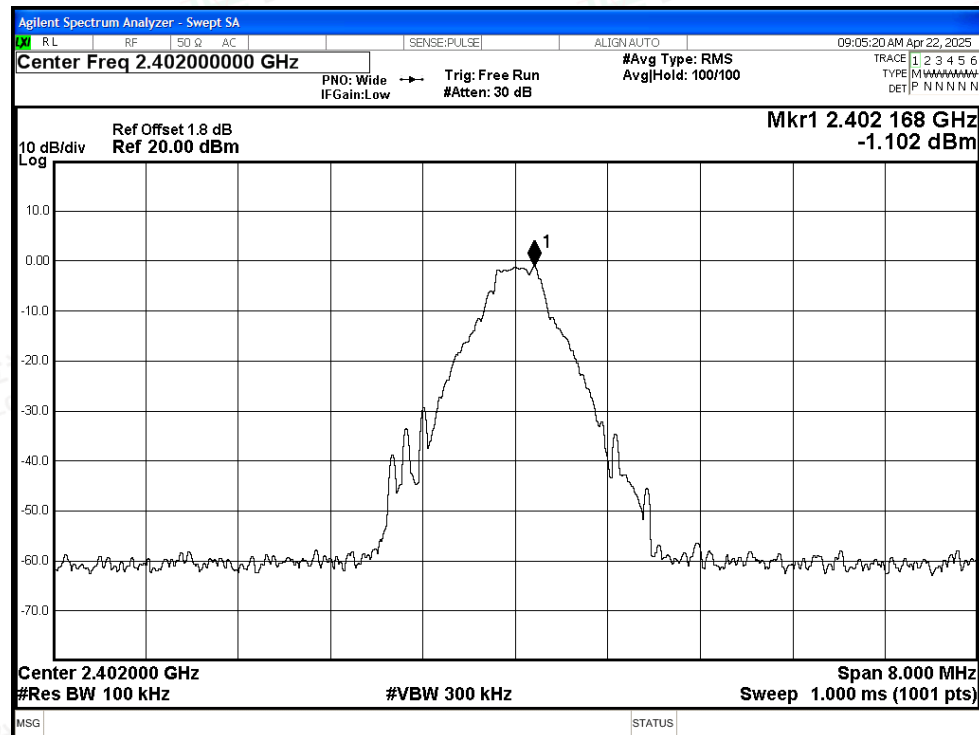


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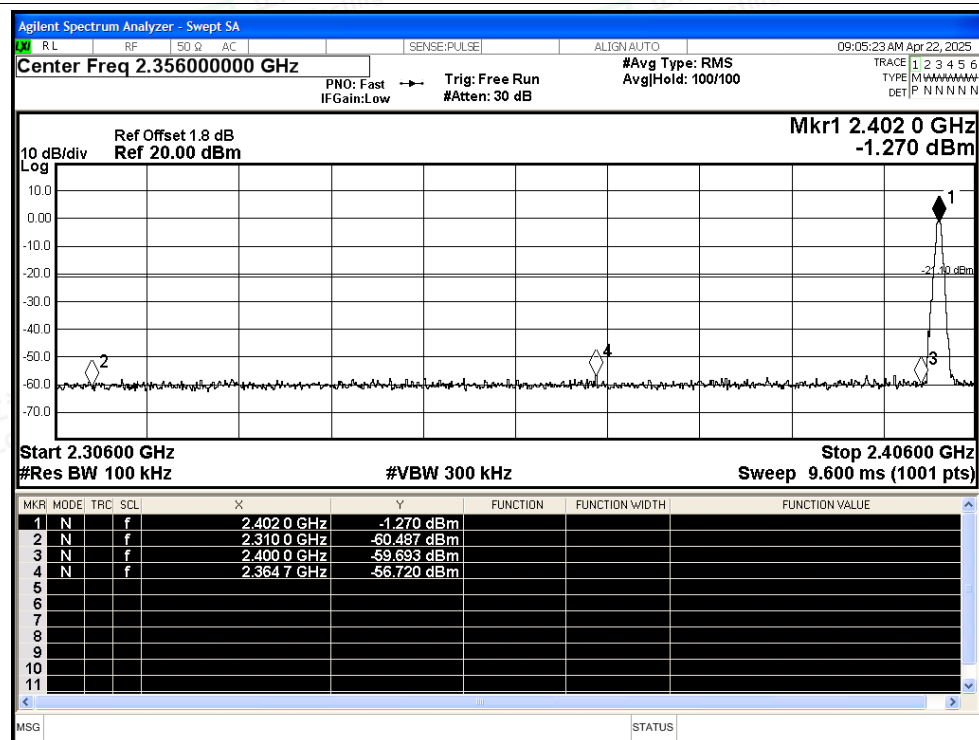


Test Graphs

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

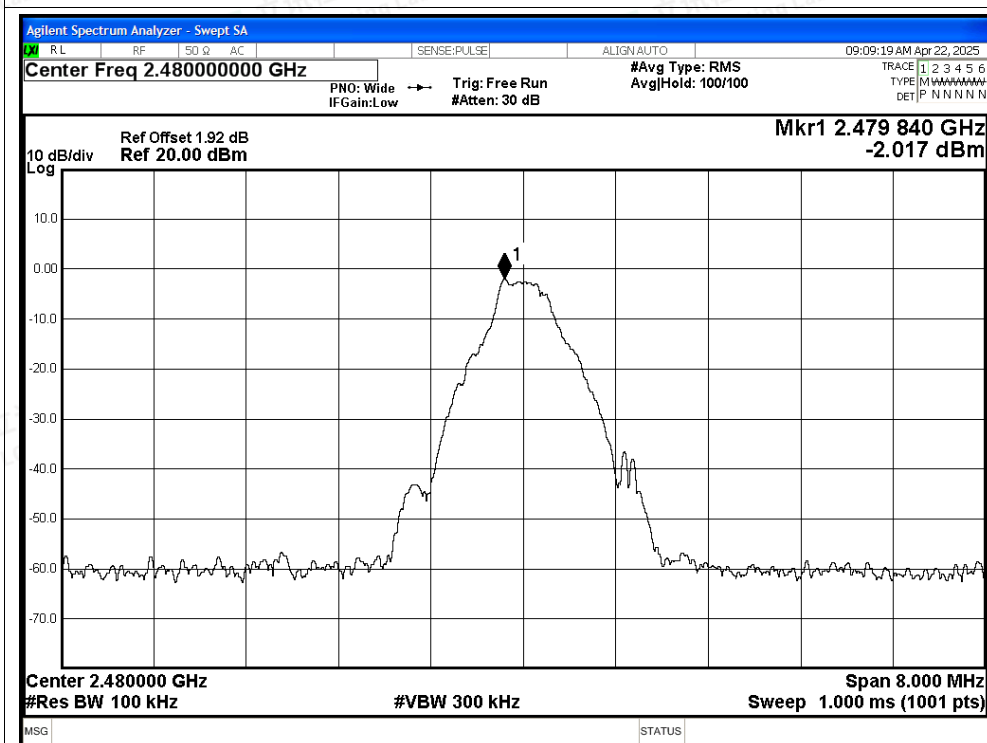


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

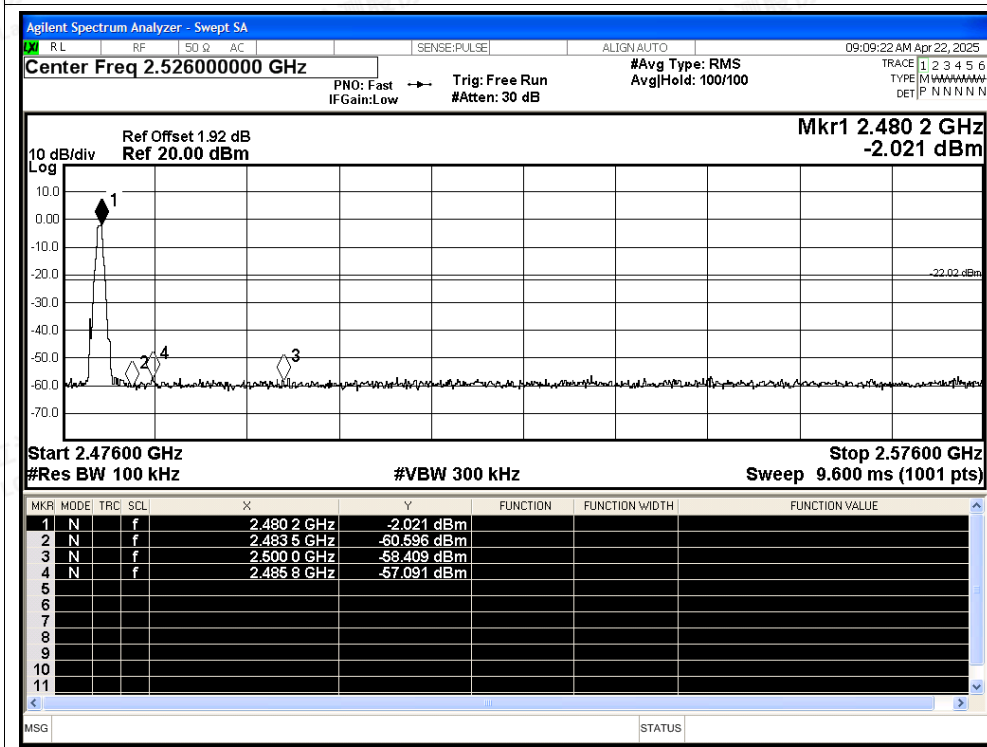




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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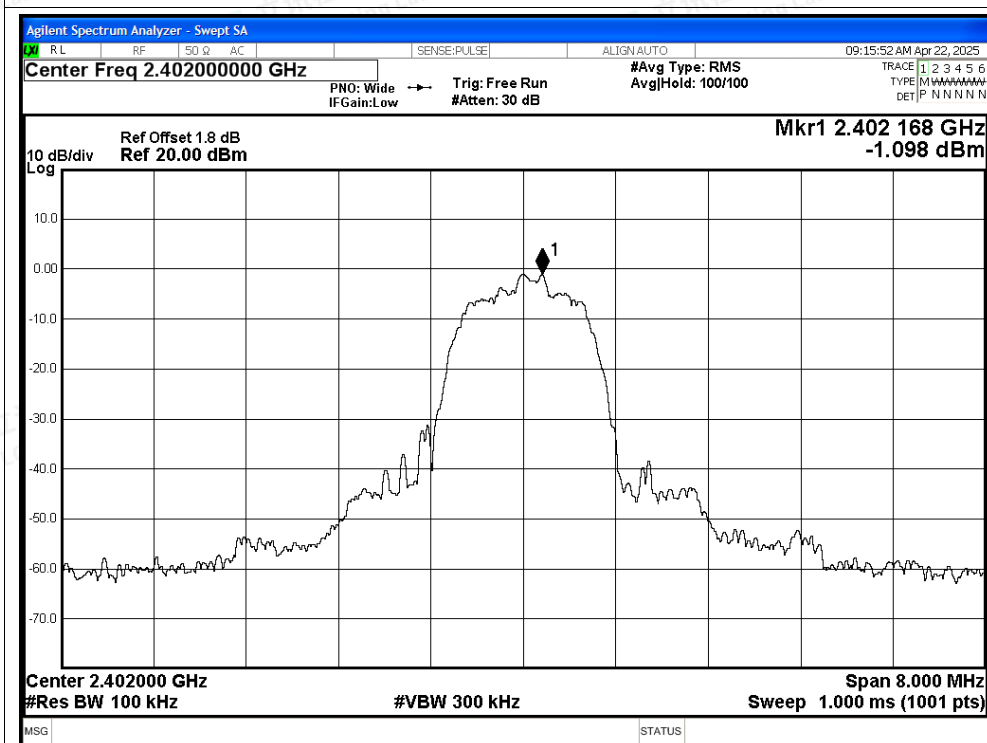
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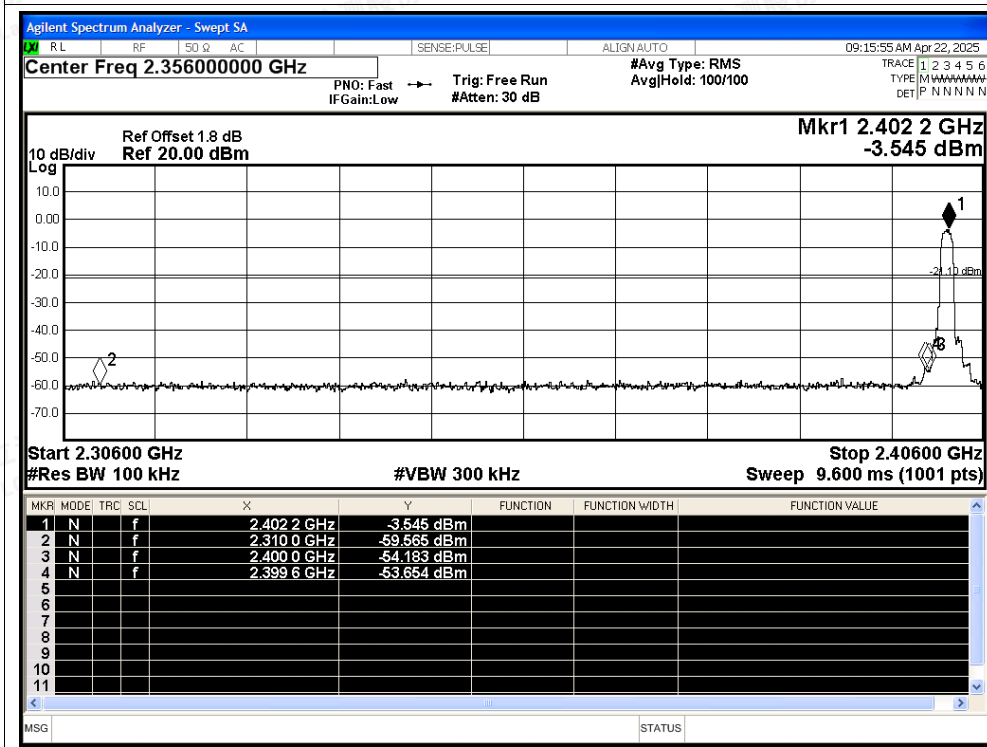
Scan code to check authenticity



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

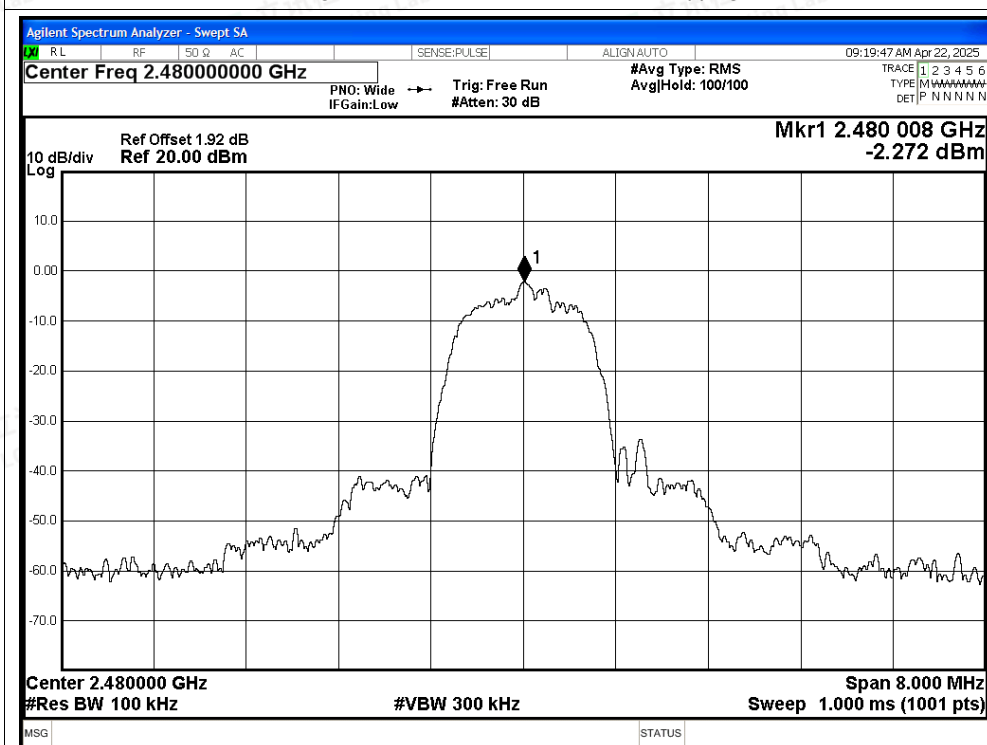


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

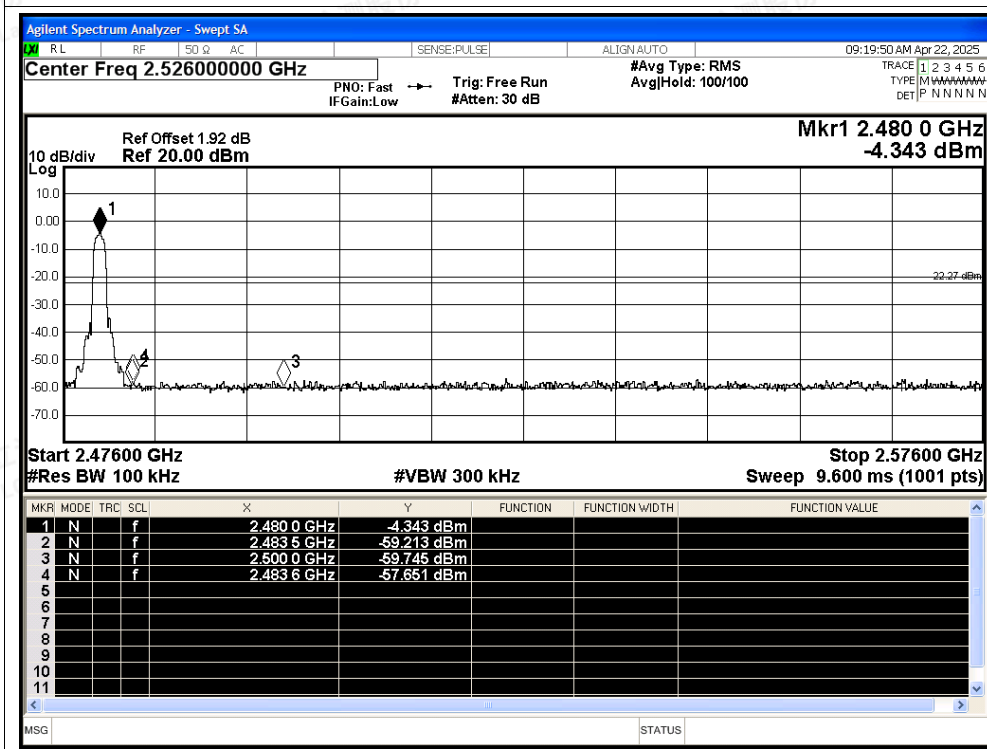




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.16	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.32	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.18	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.43	-20	Pass

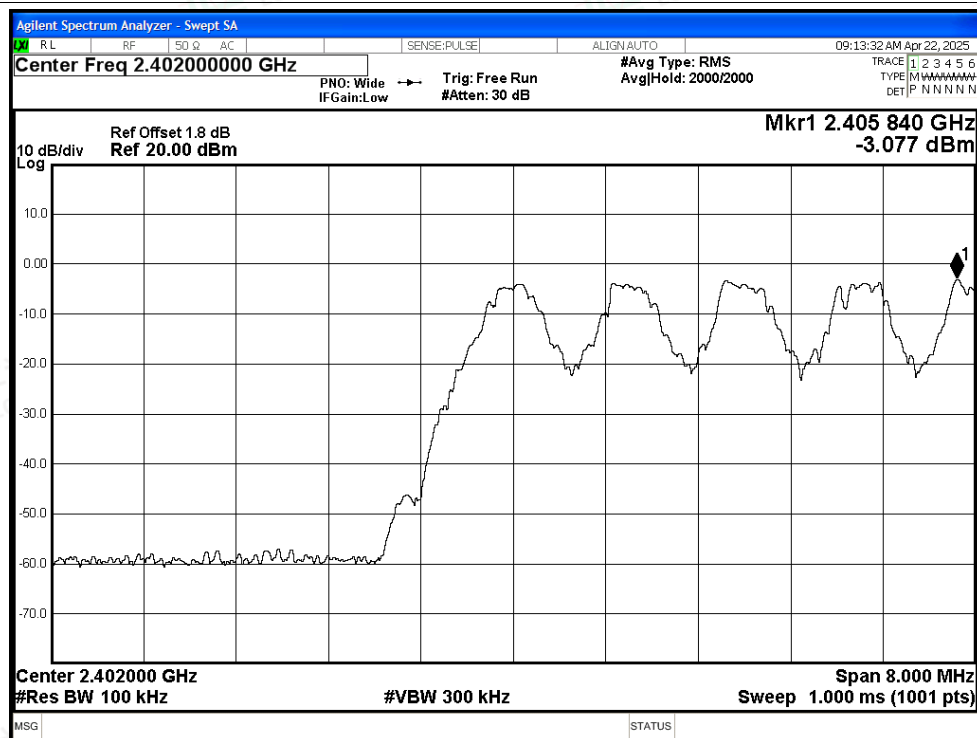


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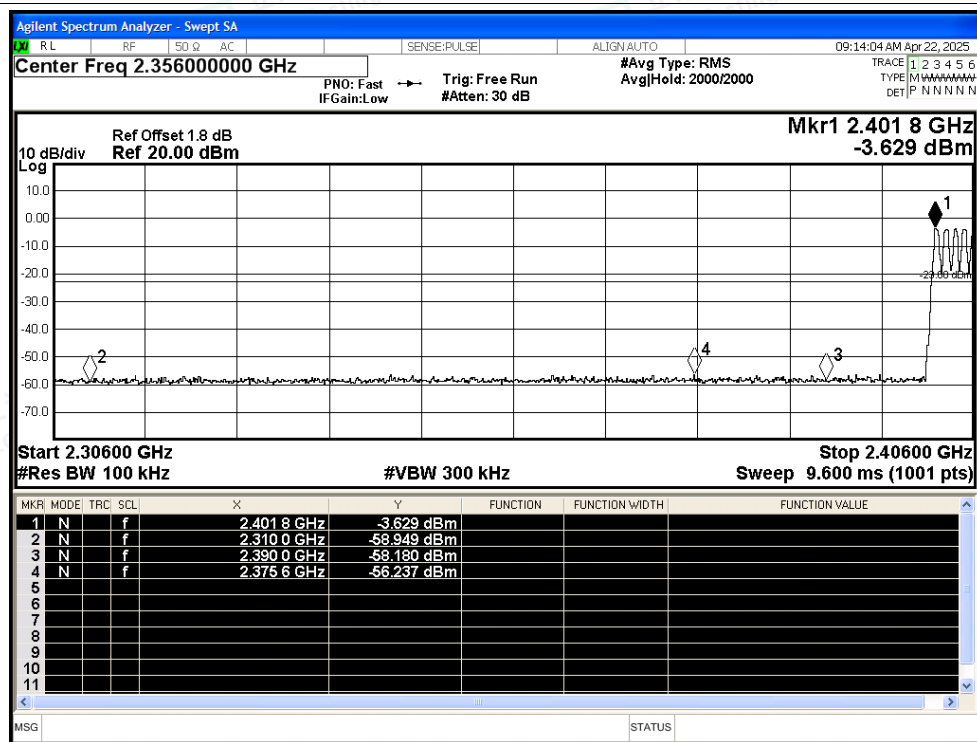


Test Graphs

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



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



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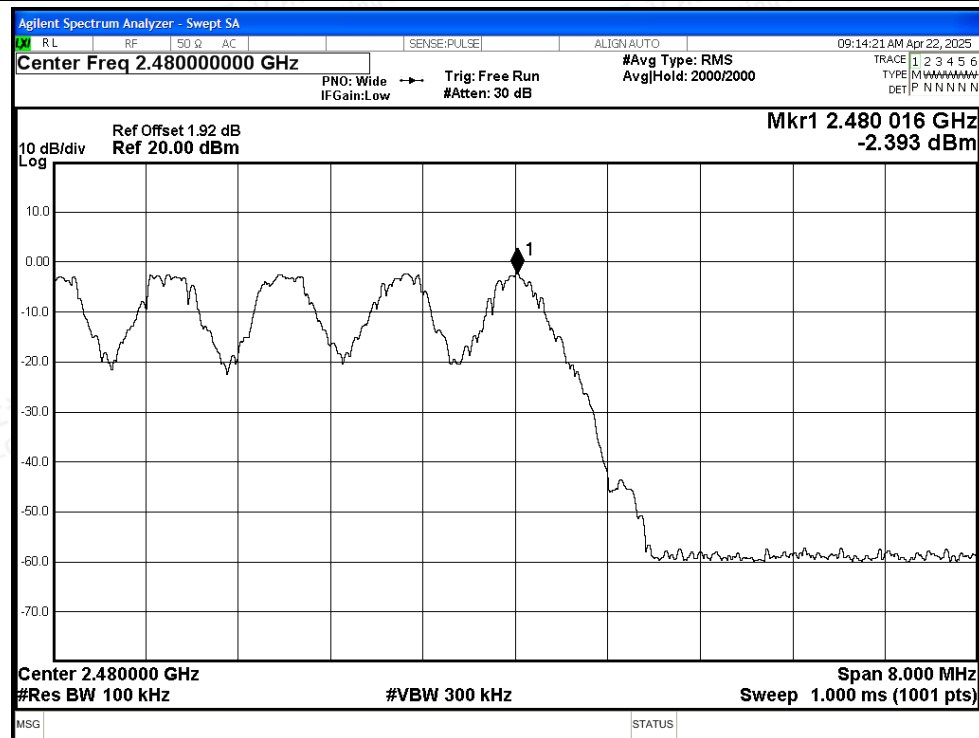
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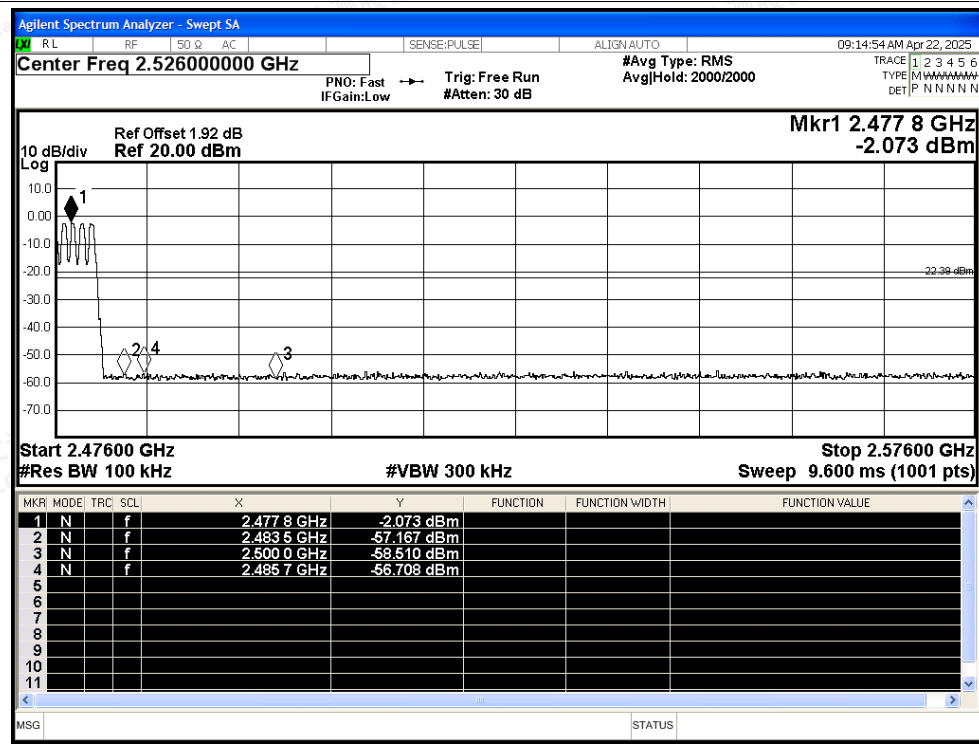
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

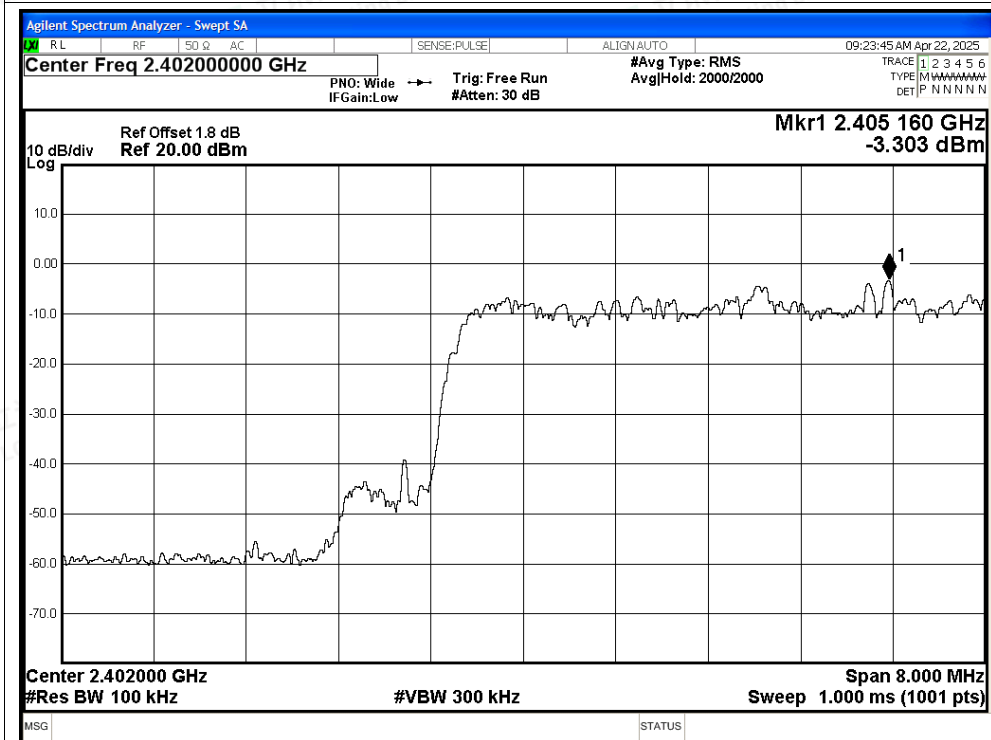


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

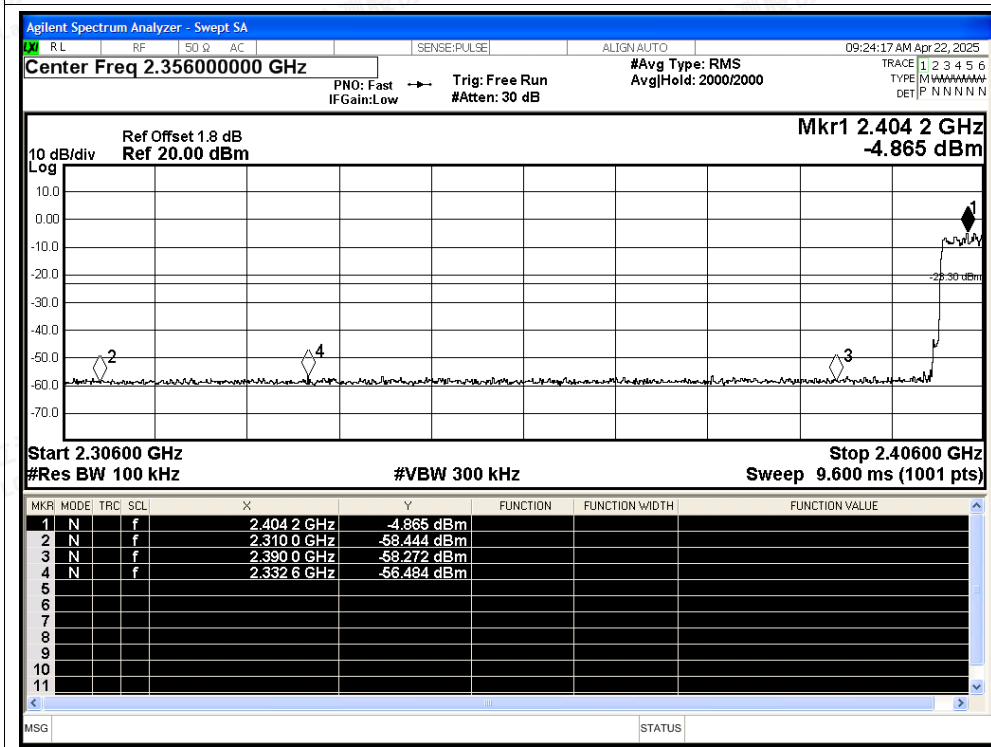




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

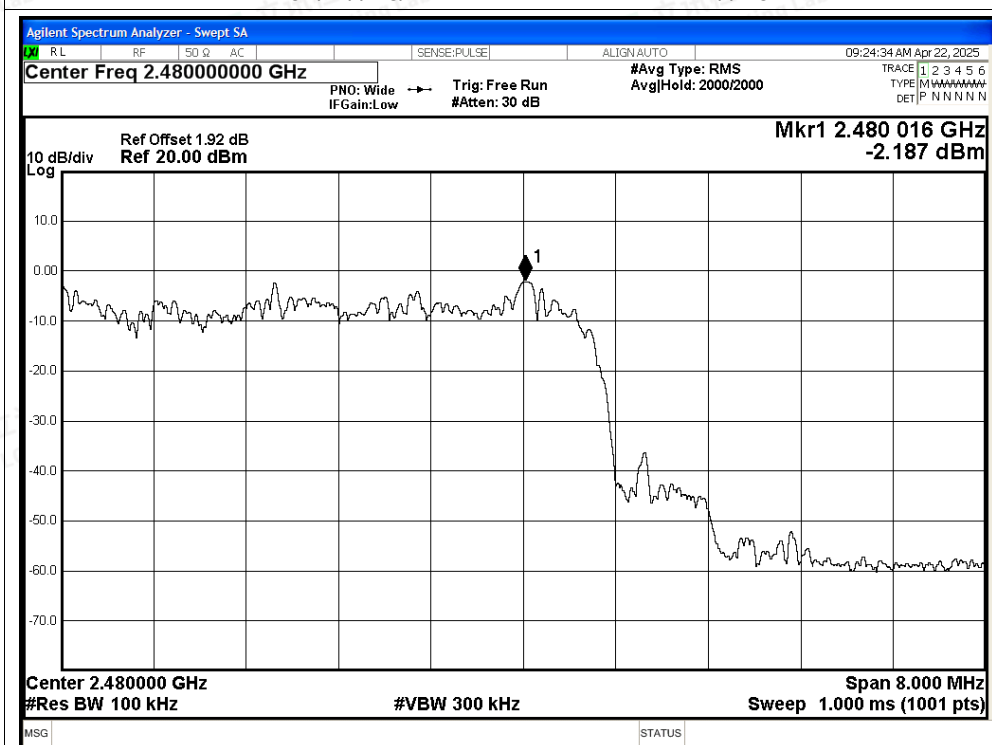


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

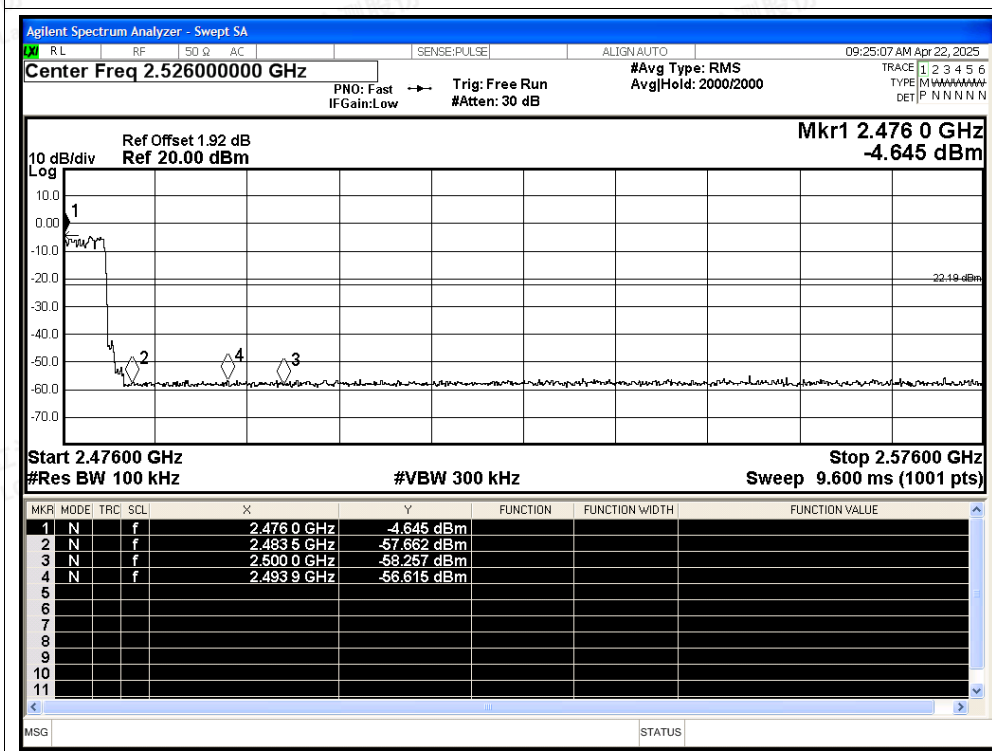




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.78	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.71	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.93	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.71	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.84	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.39	-20	Pass

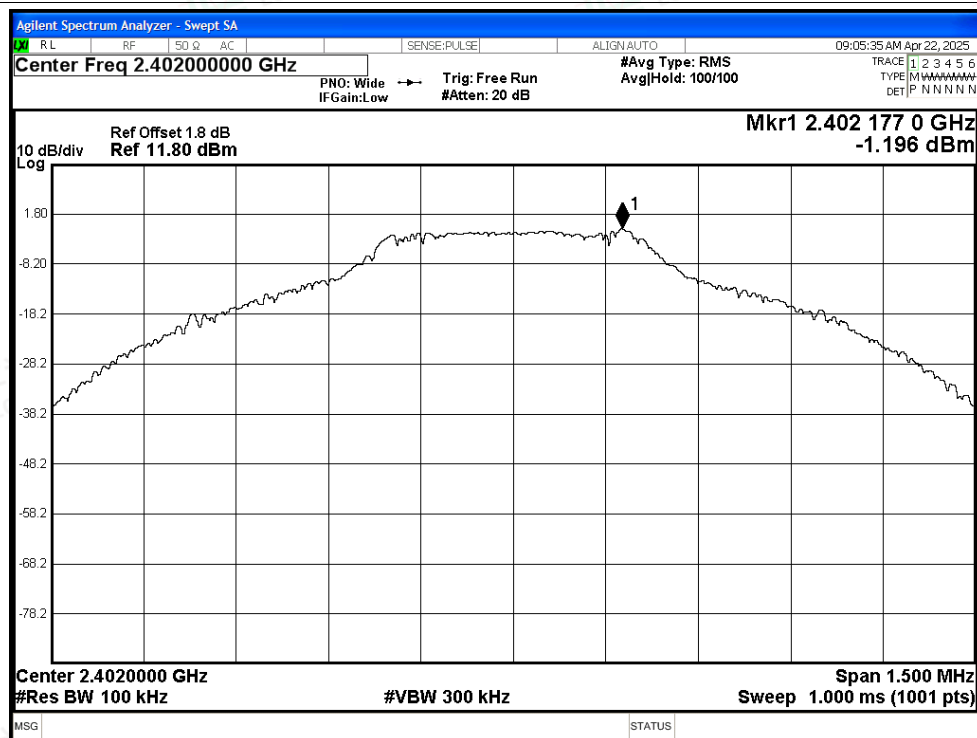


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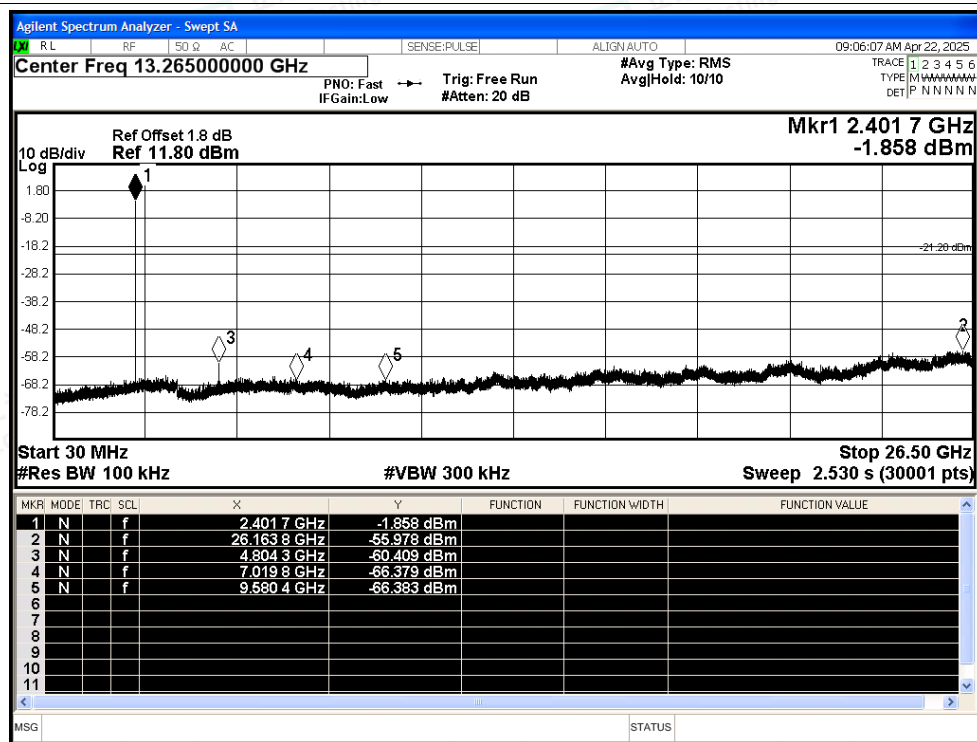


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

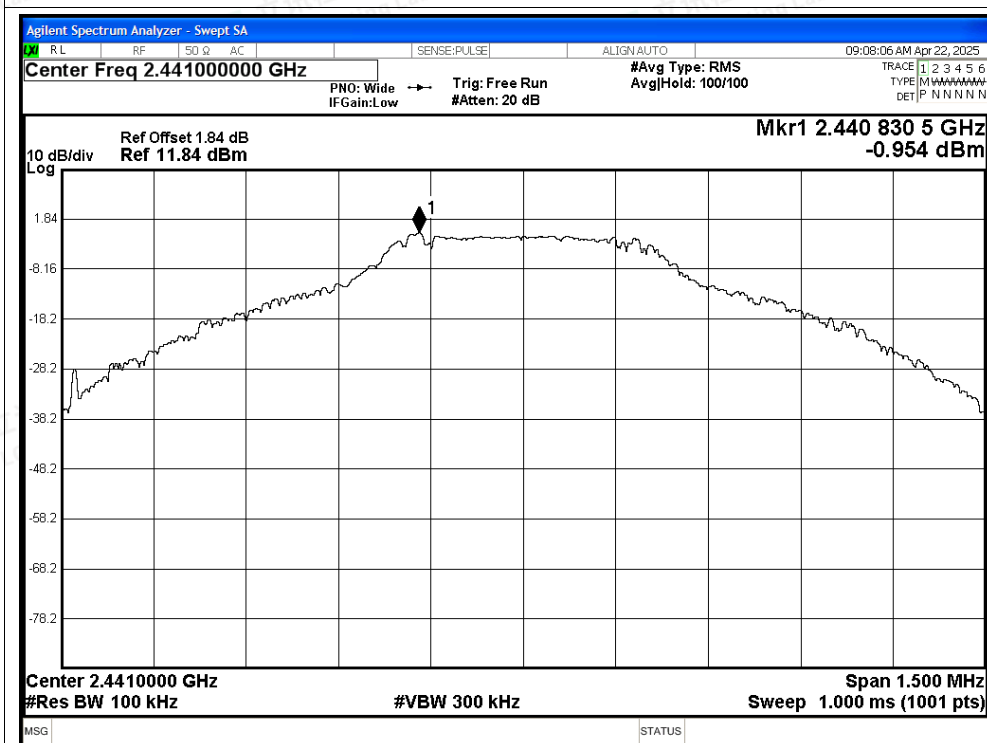


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

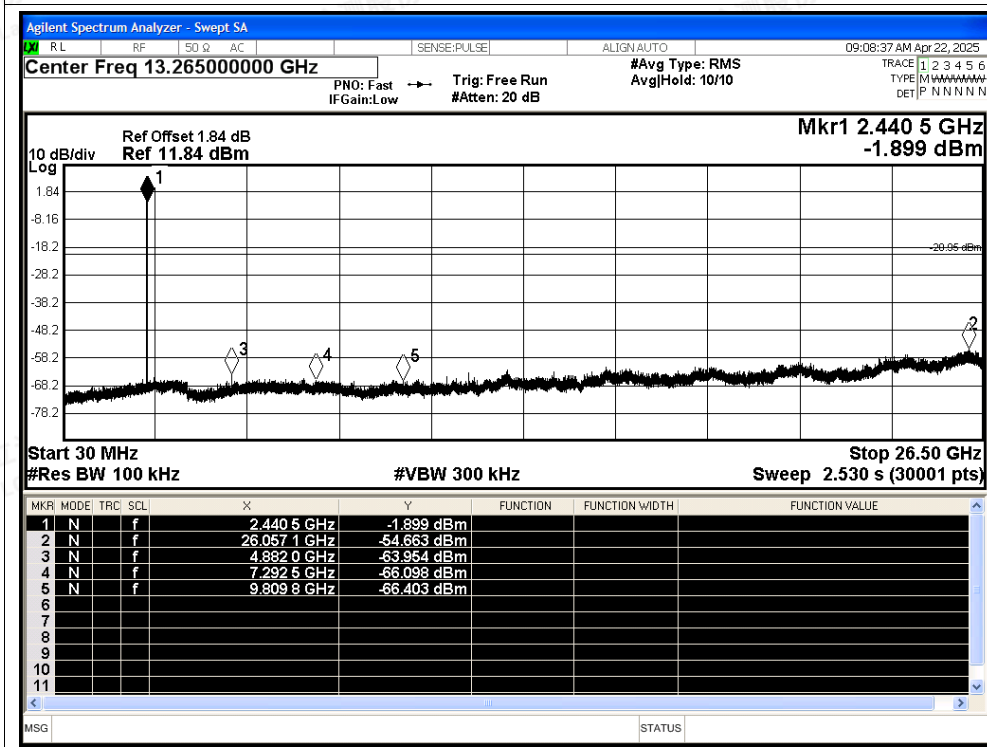




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

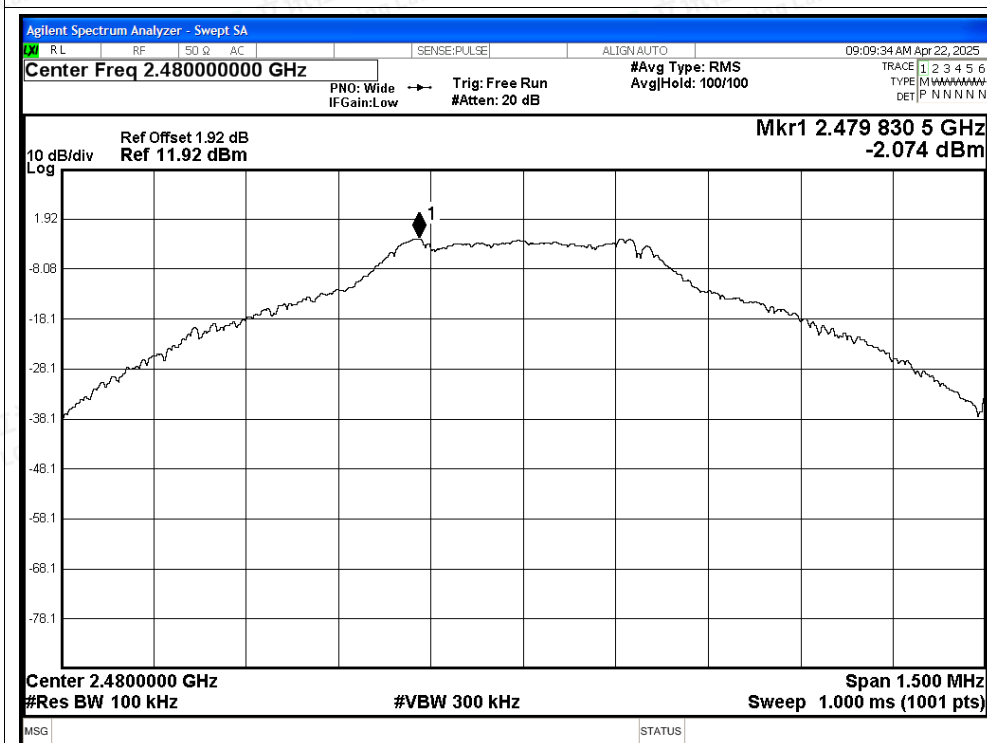


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

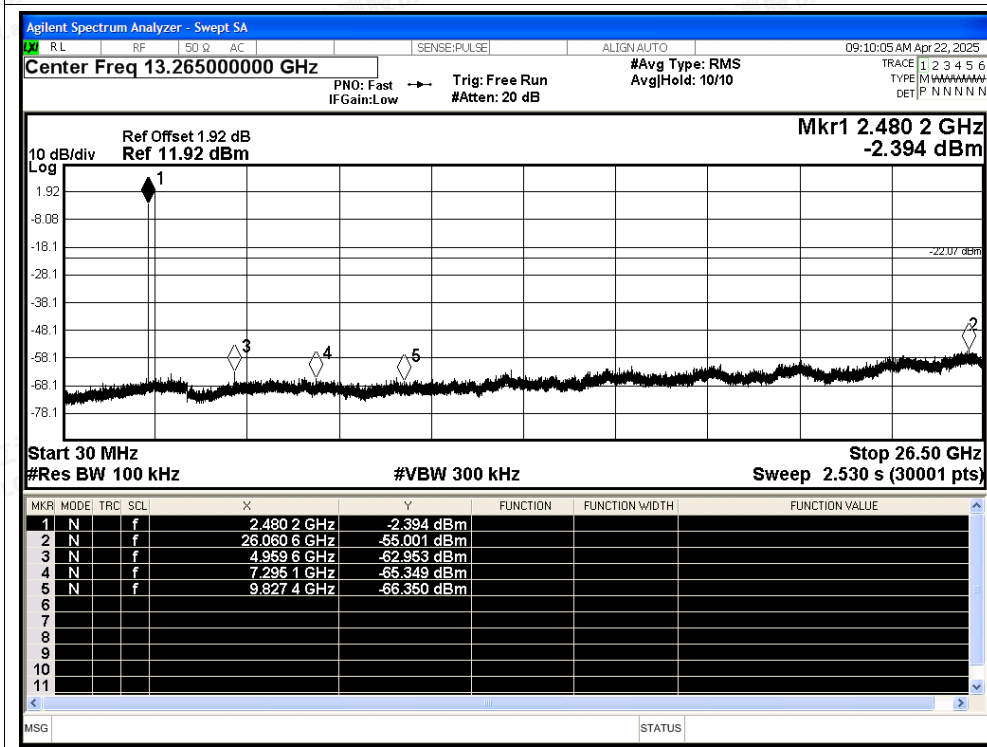




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

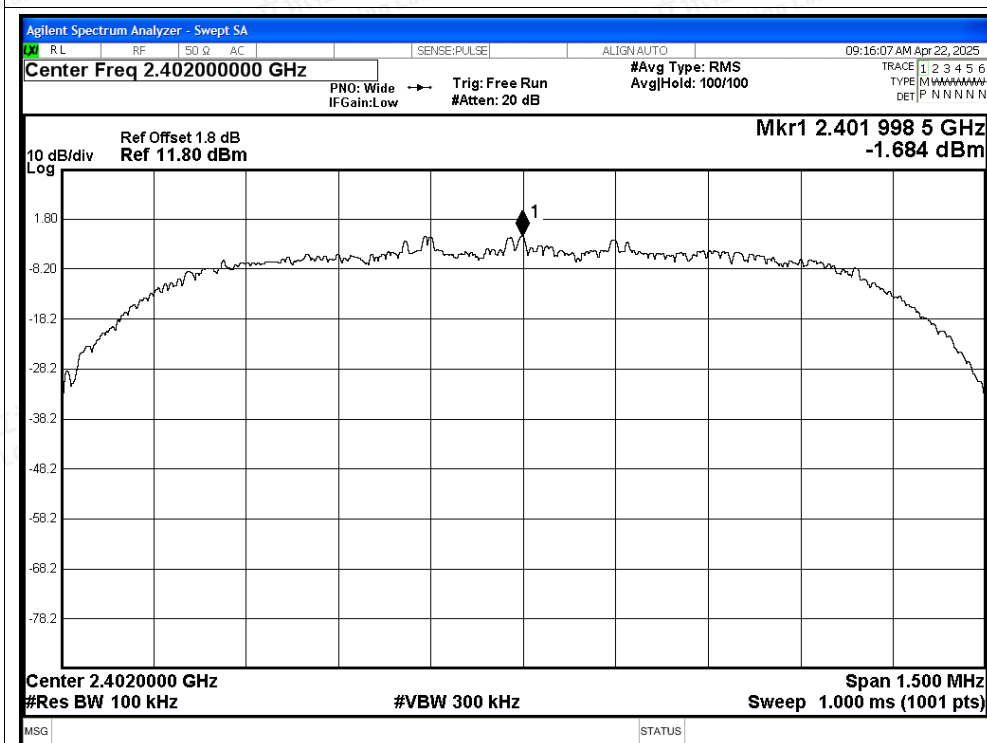


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

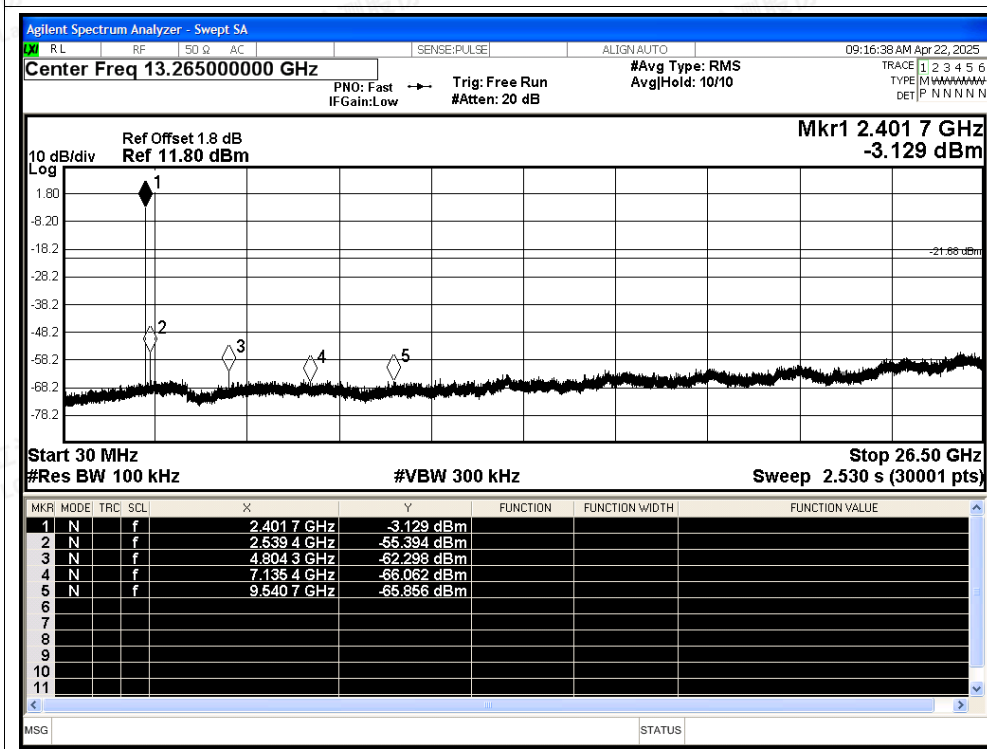




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

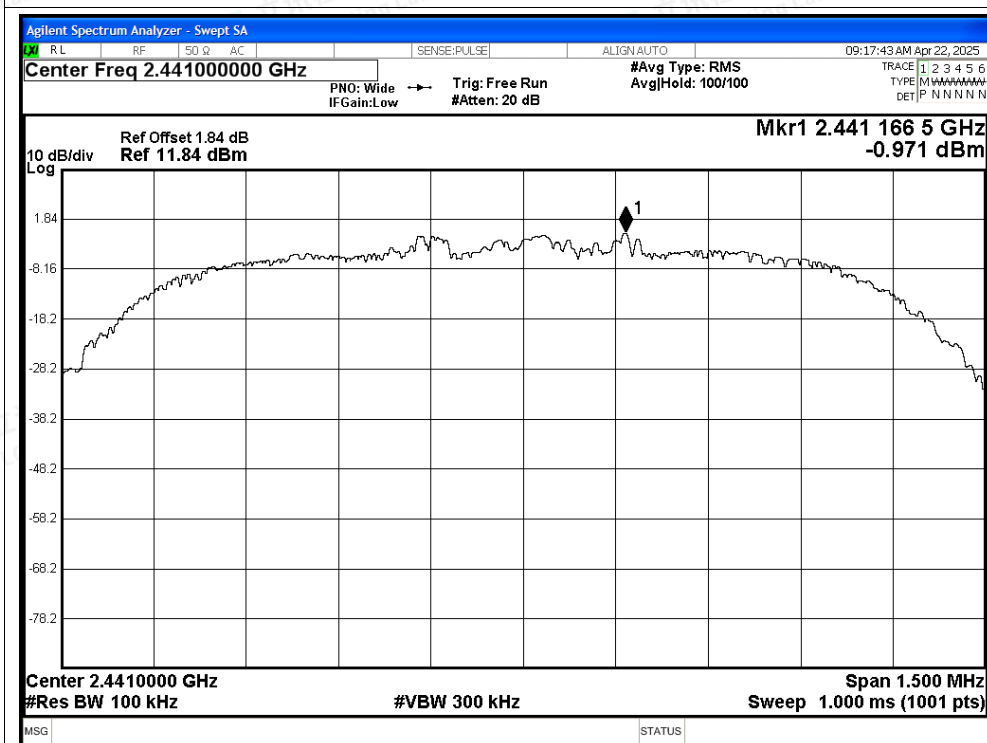


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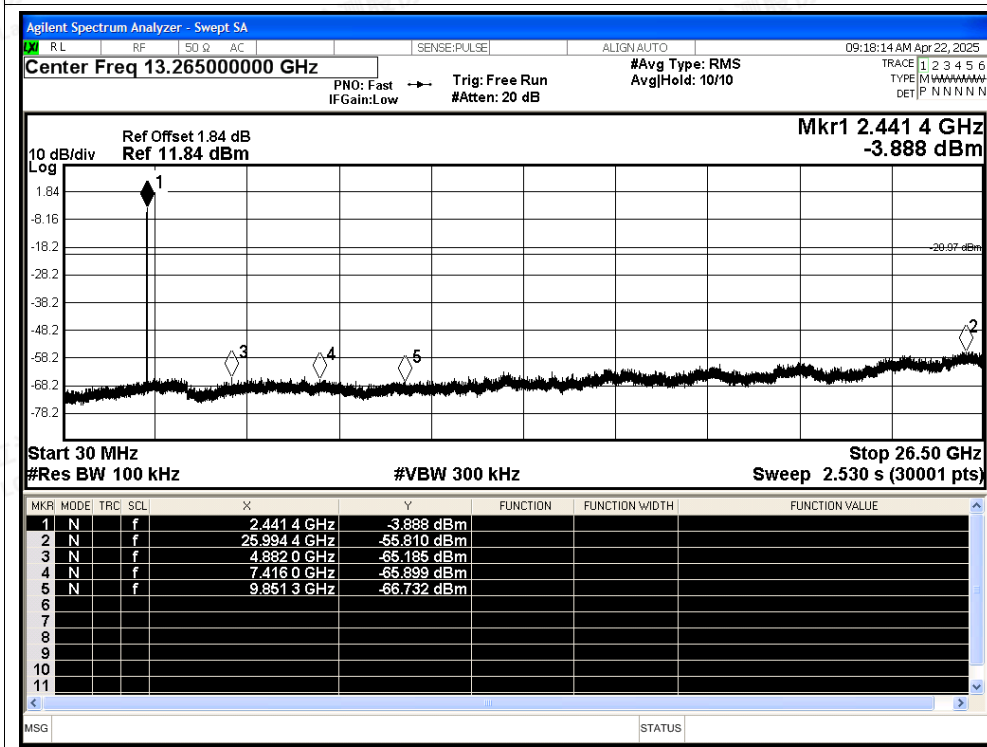




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

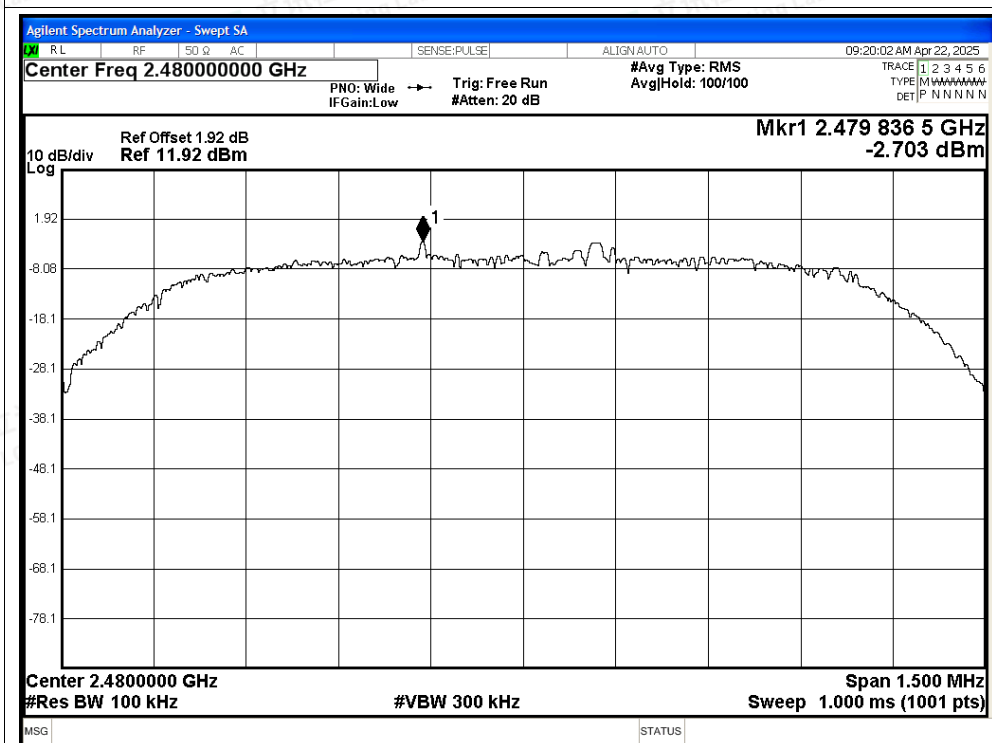


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

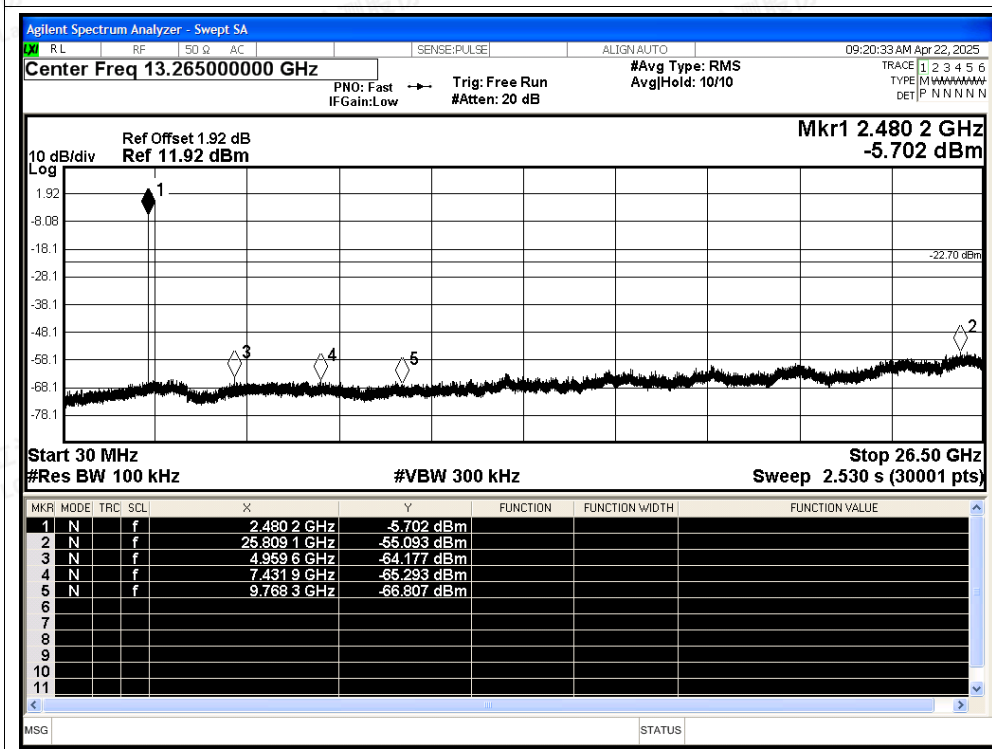




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

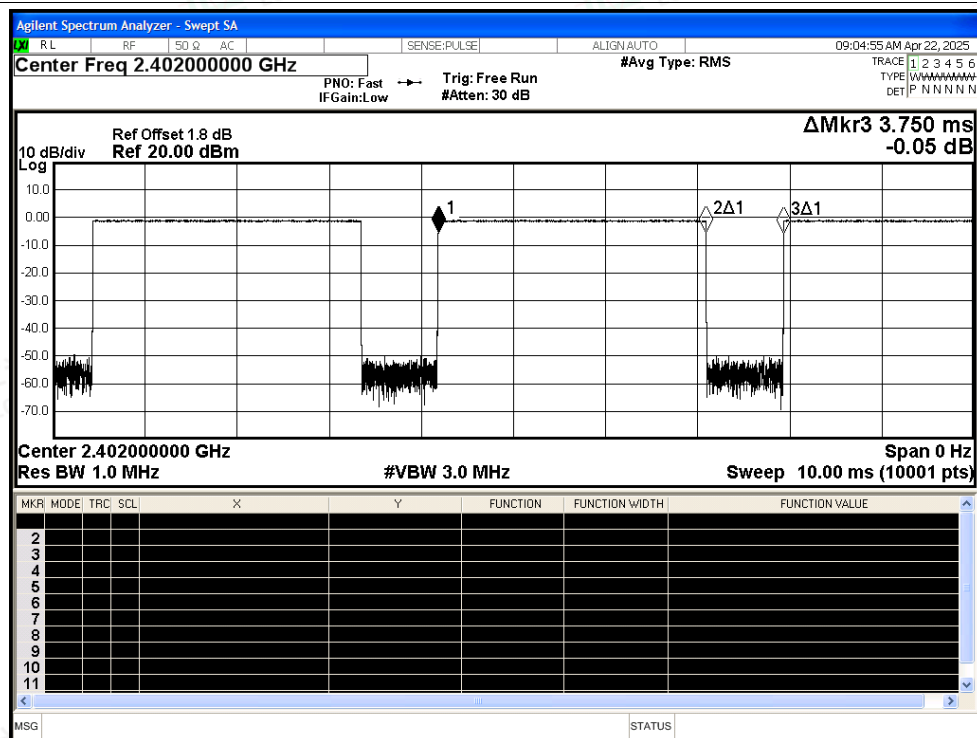


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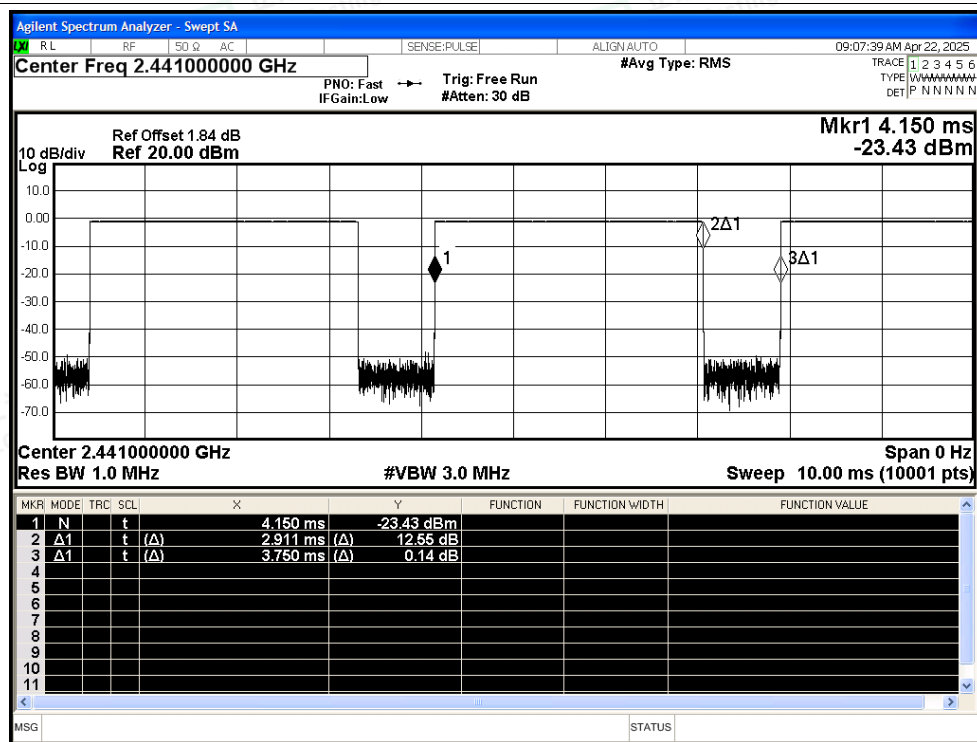


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

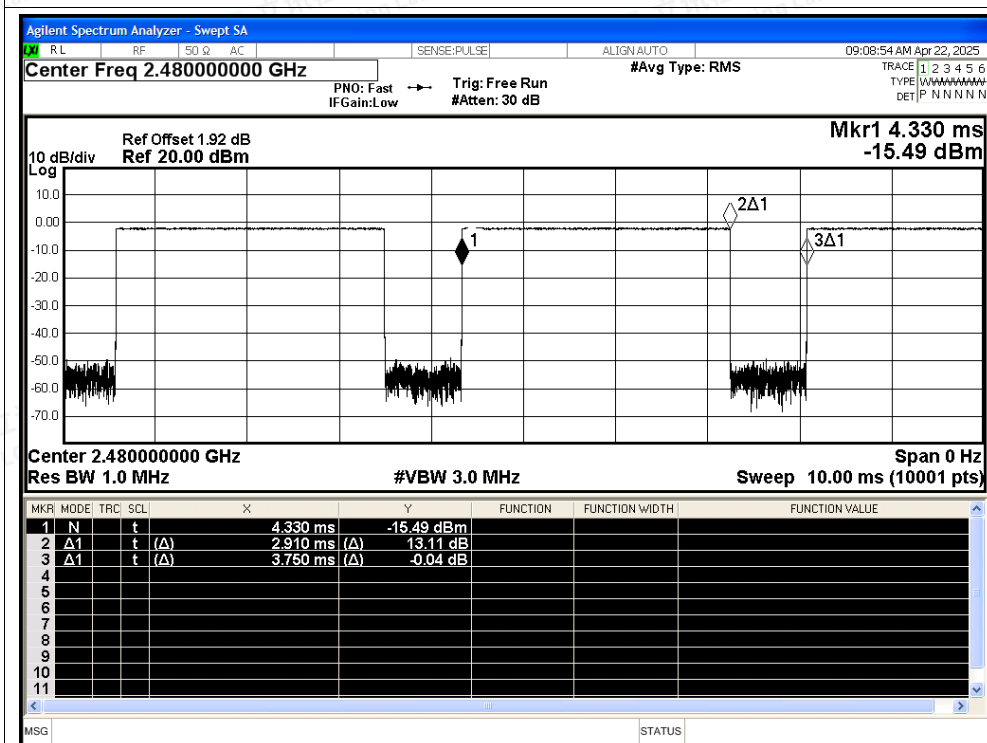


Duty Cycle NVNT 1-DH5 2441MHz Ant1

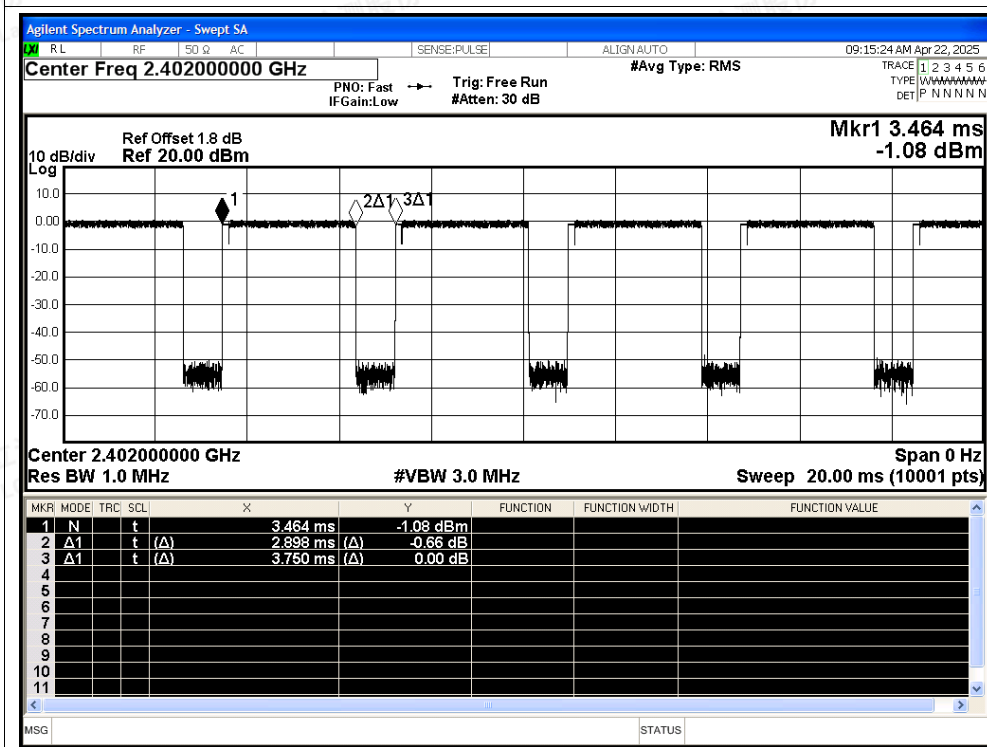




Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

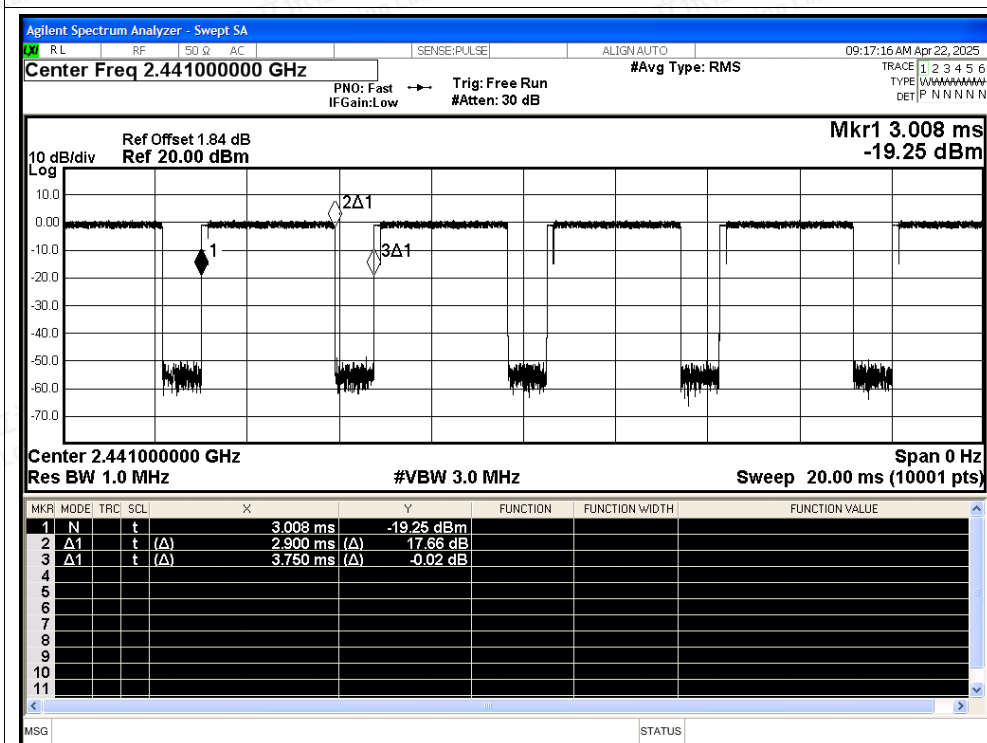
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

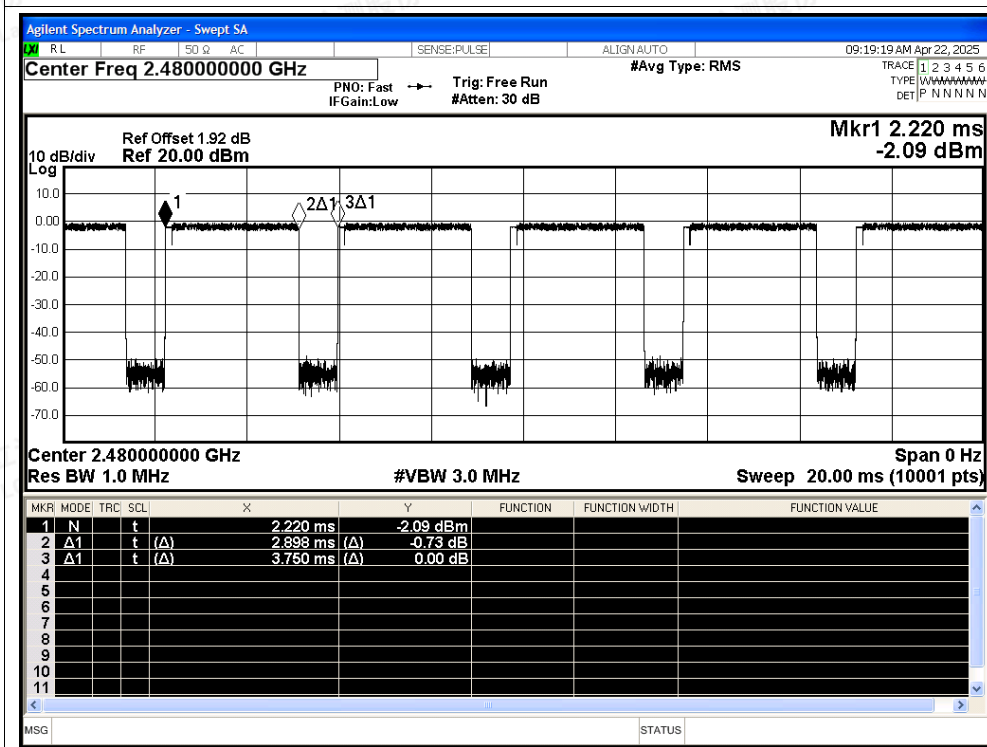
Scan code to check authenticity



Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



A.9 Restrict Band

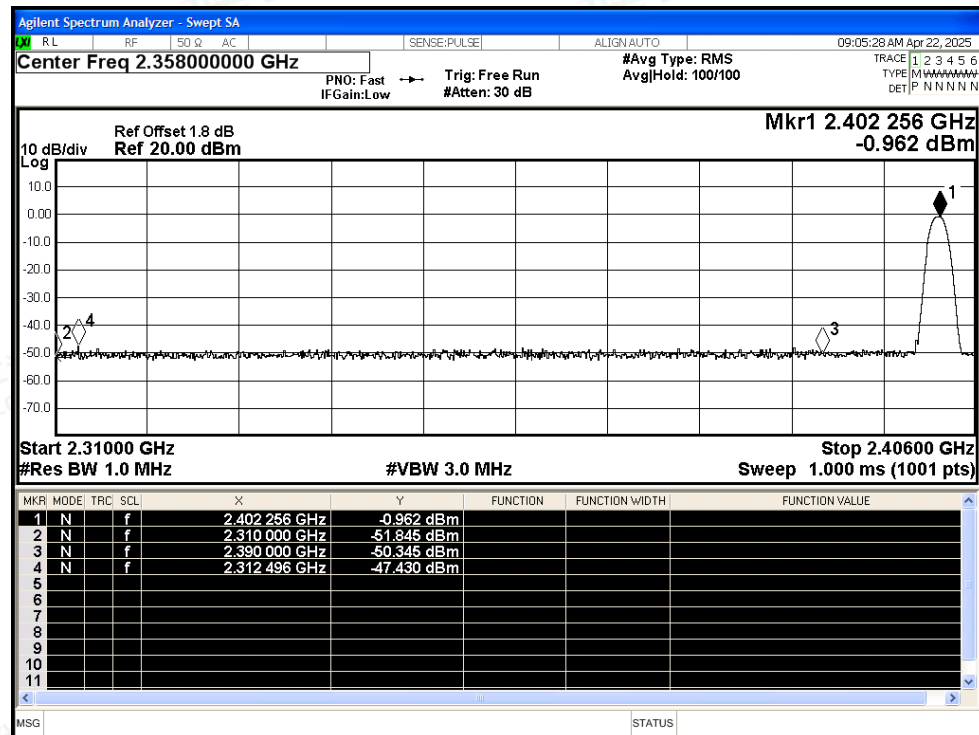
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.85	2	-	45.41	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.24	2	1.1	39.12	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2312.496	-47.43	2	-	49.83	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2383.056	-57.95	2	1.1	40.41	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.35	2	-	46.91	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.9	2	1.1	39.46	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.3	2	-	46.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.78	2	1.1	40.58	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.016	-46.43	2	-	50.83	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.128	-57.41	2	1.1	40.95	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.45	2	-	47.81	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.65	2	1.1	40.71	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.58	2	-	45.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.99	2	1.12	39.39	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2340.624	-48.1	2	-	49.16	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.584	-57.69	2	1.12	40.69	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.69	2	-	46.57	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.61	2	1.12	39.77	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.74	2	-	48.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.94	2	1.12	40.44	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.136	-47.34	2	-	49.92	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.752	-57.22	2	1.12	41.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.51	2	-	47.75	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.24	2	1.12	40.14	Average	54	Pass



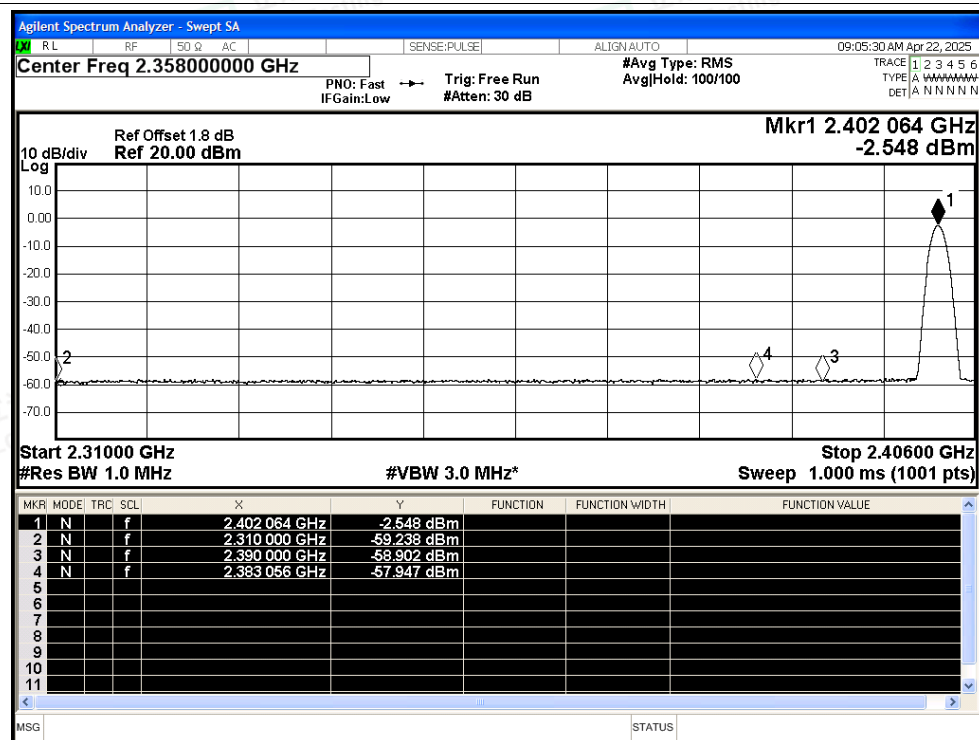


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

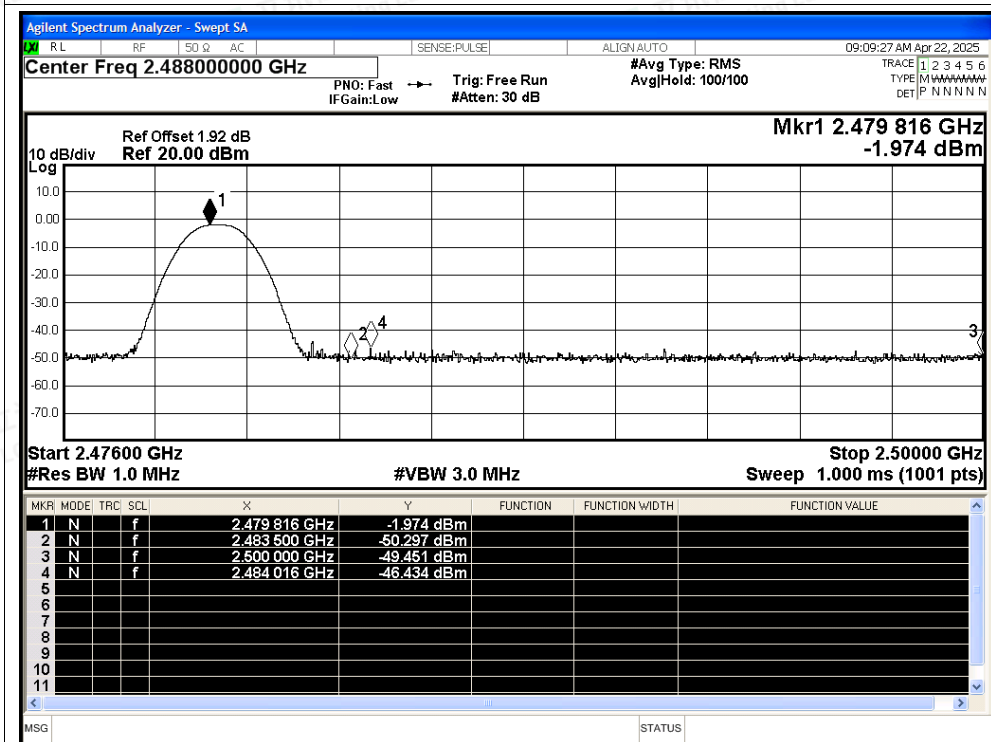


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

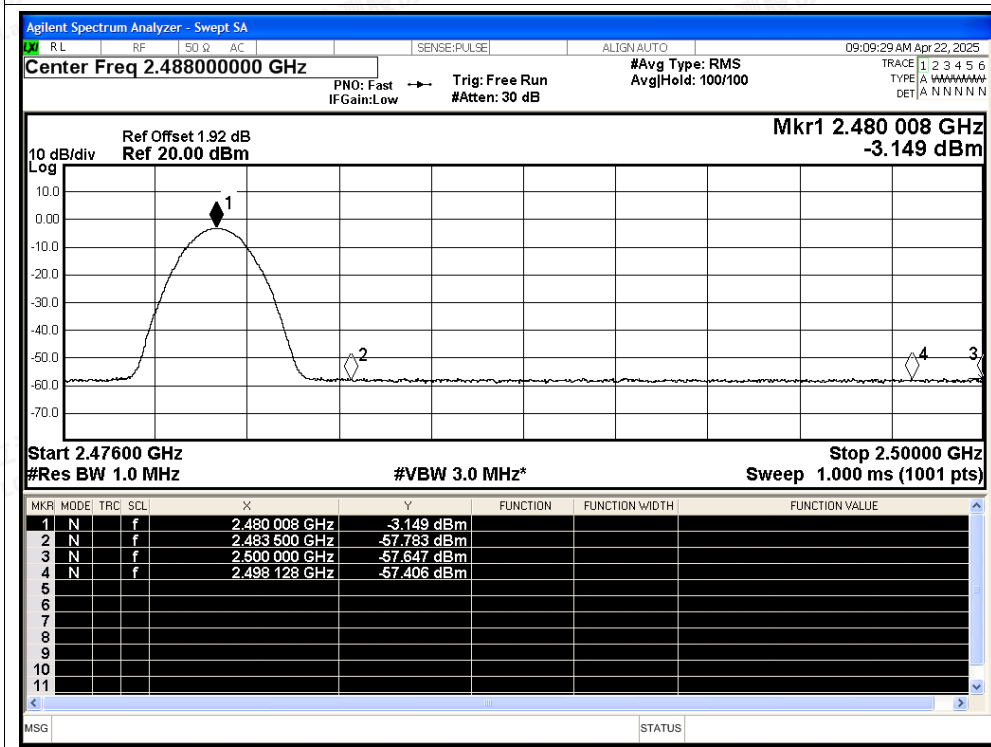




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

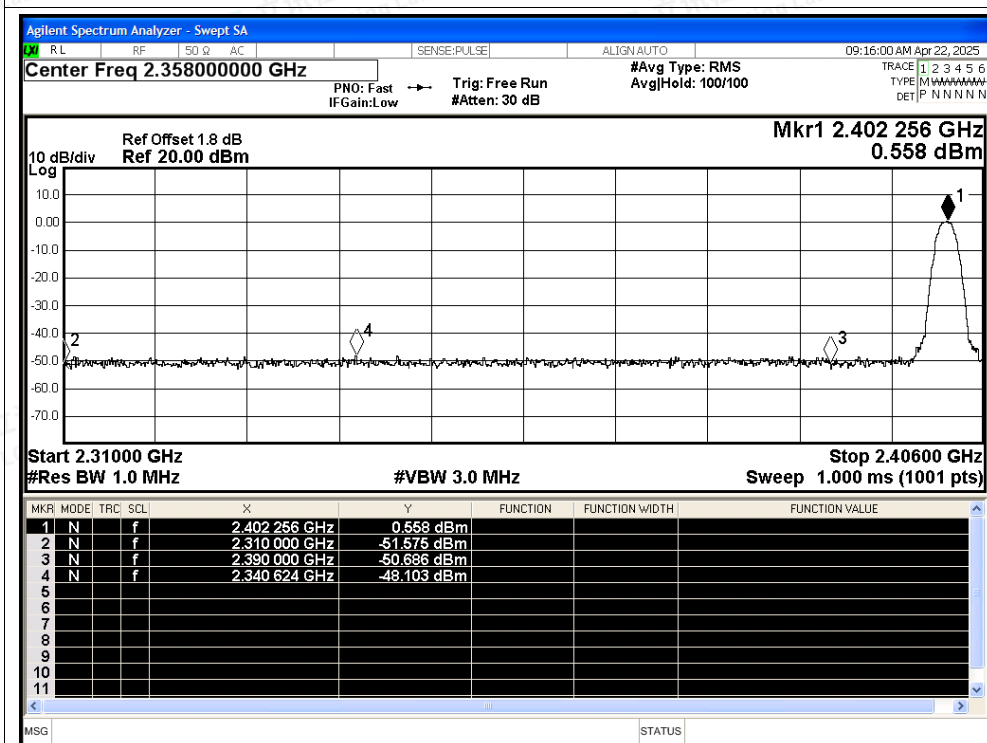


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

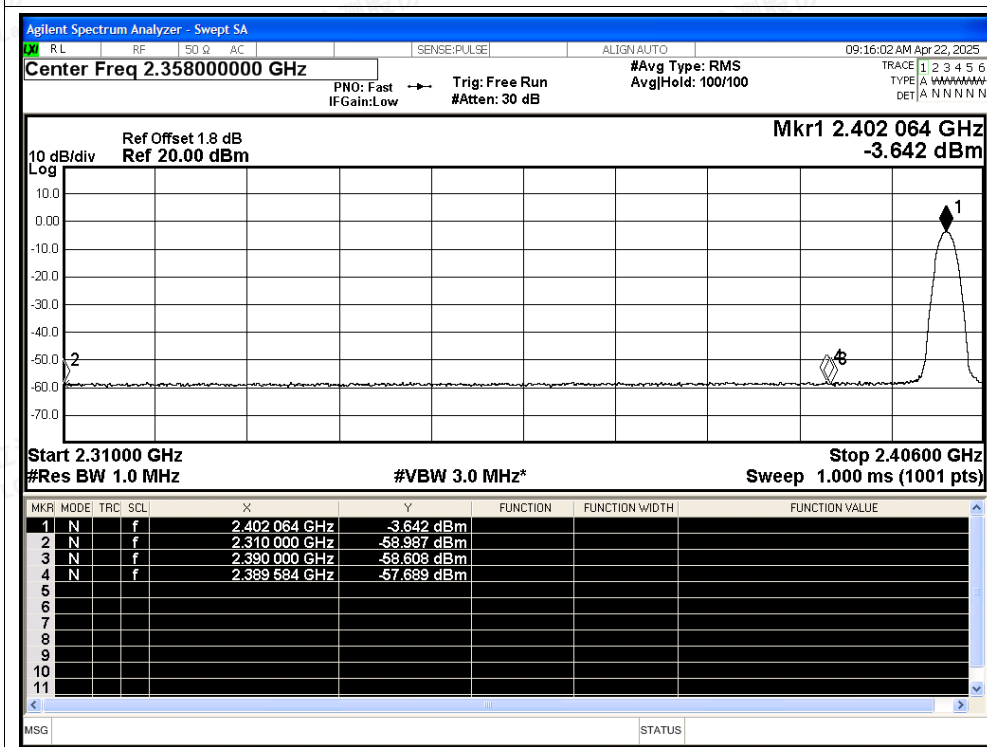




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

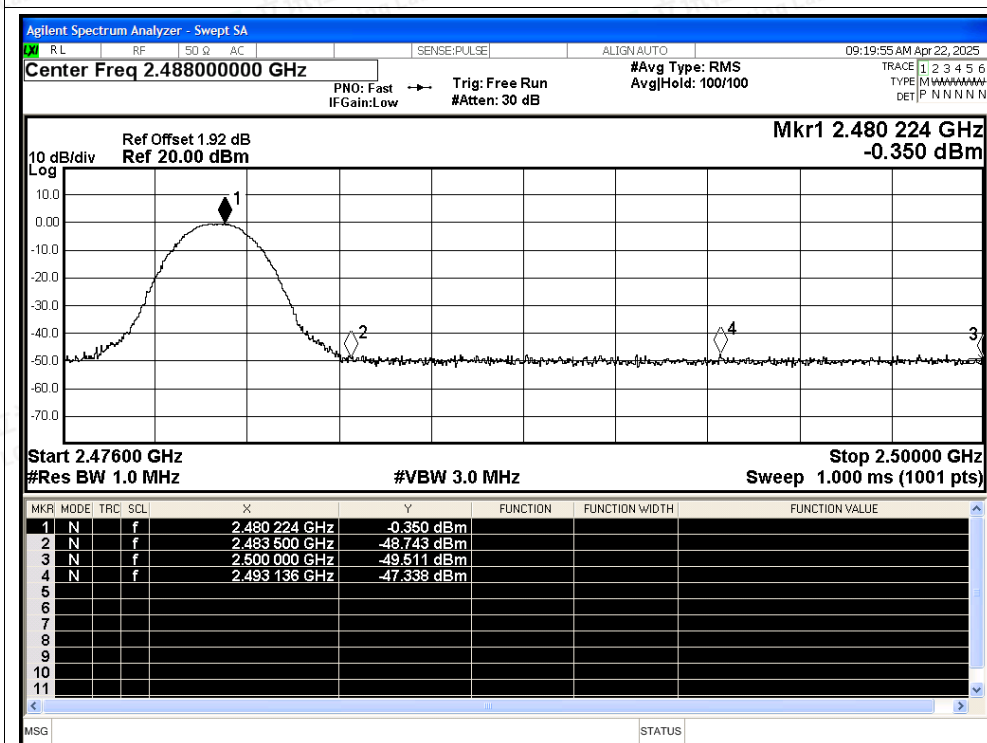


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

