



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Nvidia Jetson Nano Player

Test Model: SMPNJ-P3448-Q

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan



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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	0.949	0	Pass
NVNT	1-DH5	2441	Ant1	1.024	0	Pass
NVNT	1-DH5	2480	Ant1	1.014	0	Pass
NVNT	2-DH5	2402	Ant1	1.287	0	Pass
NVNT	2-DH5	2441	Ant1	1.282	0	Pass
NVNT	2-DH5	2480	Ant1	1.286	0	Pass
NVNT	3-DH5	2402	Ant1	1.291	0	Pass
NVNT	3-DH5	2441	Ant1	1.302	0	Pass
NVNT	3-DH5	2480	Ant1	1.301	0	Pass



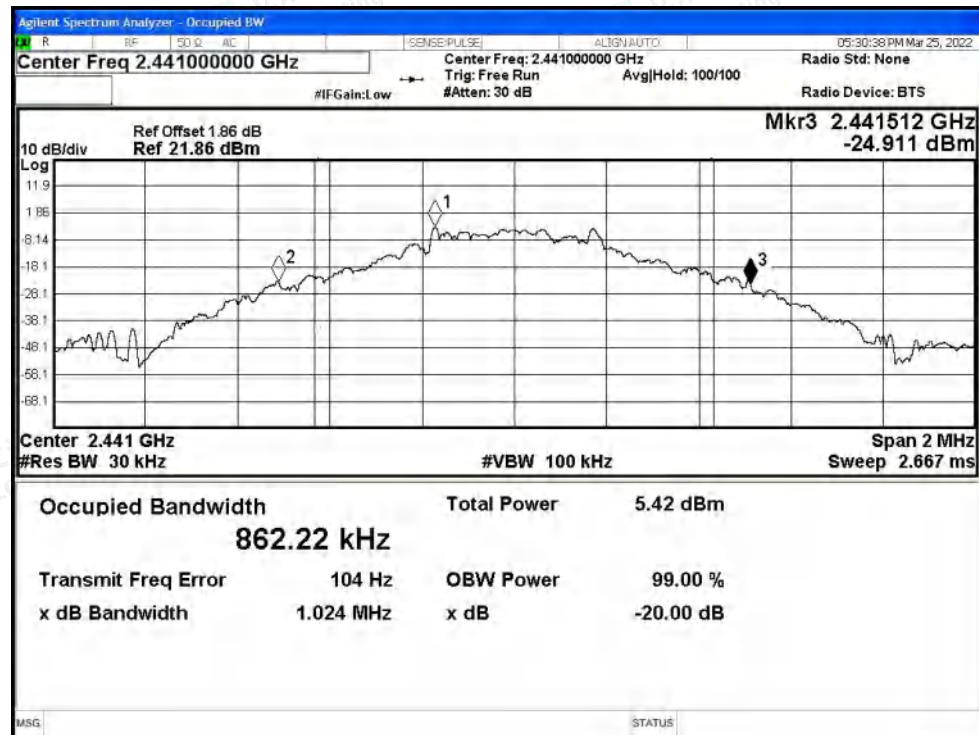


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

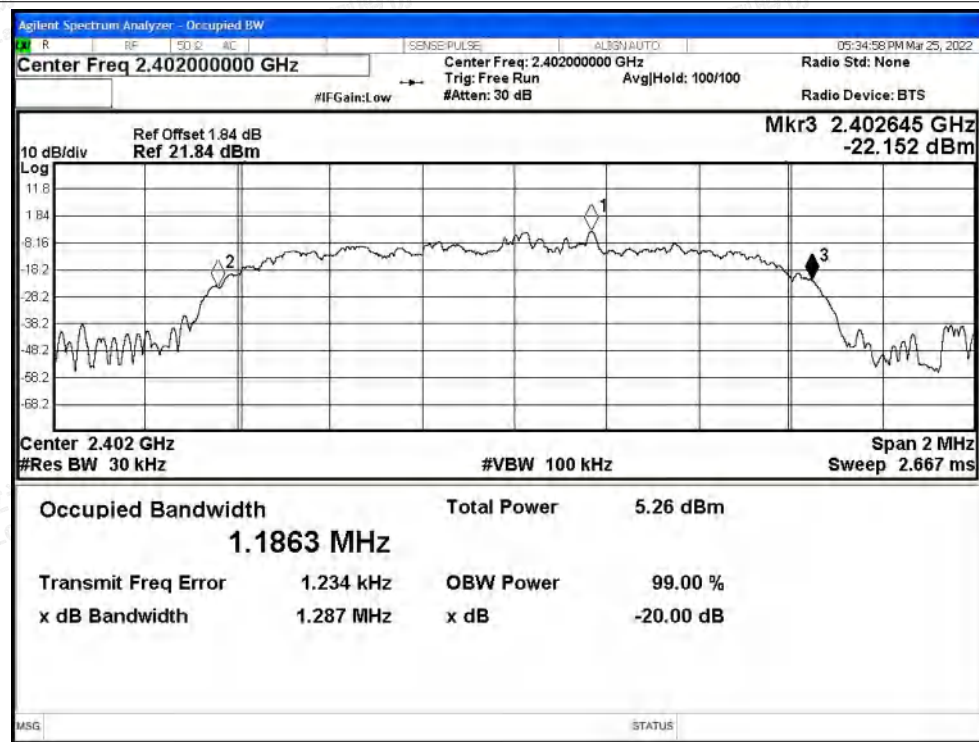




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

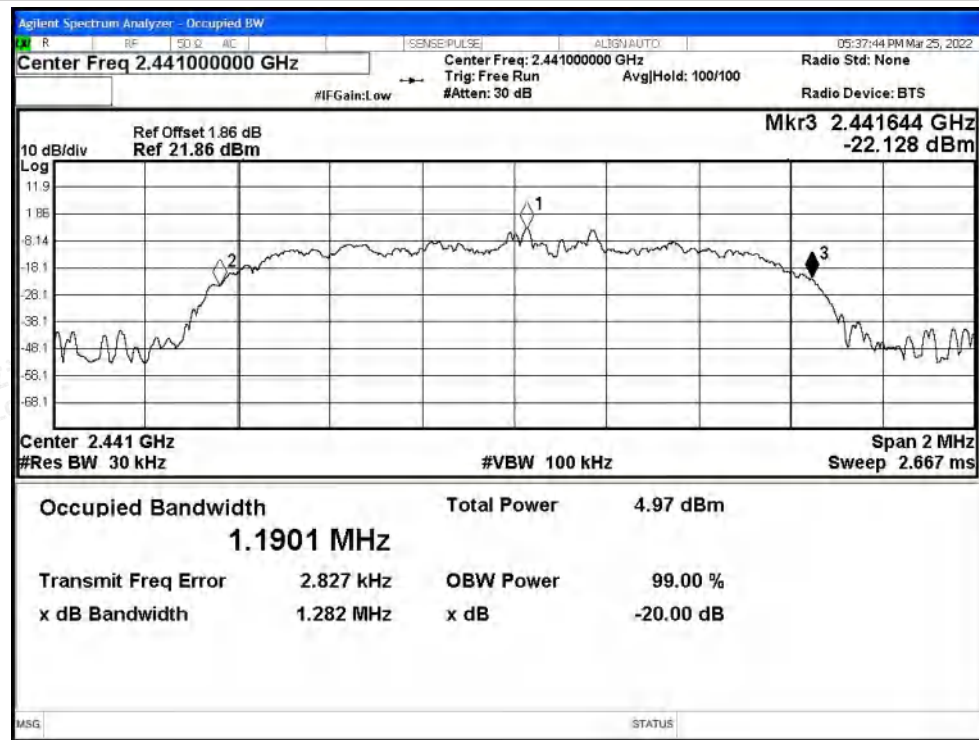


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

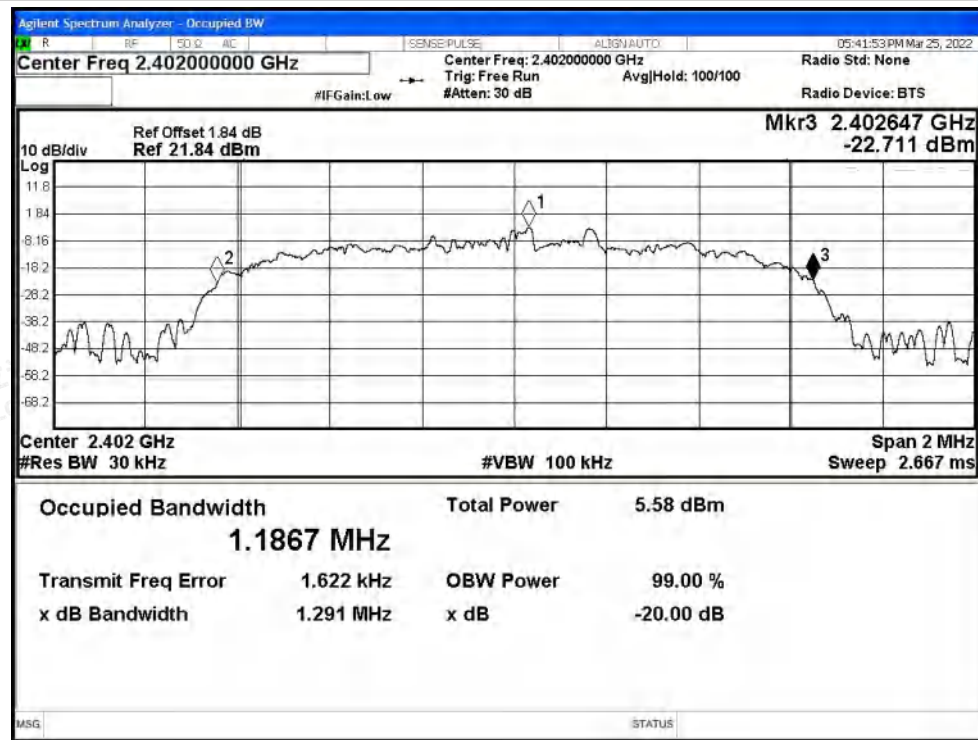


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

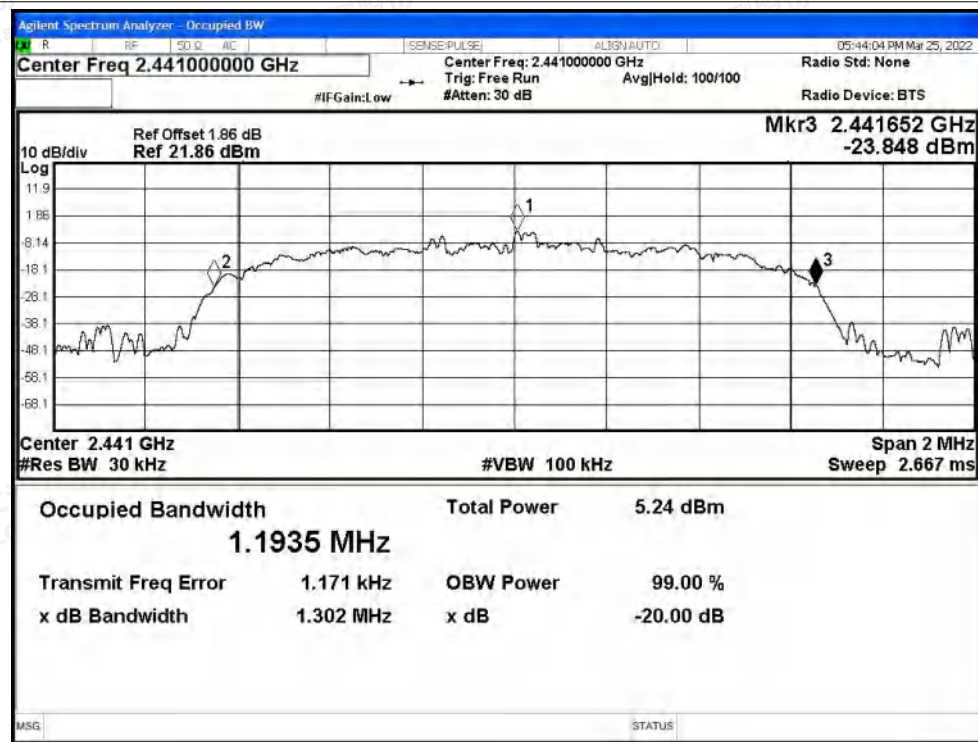


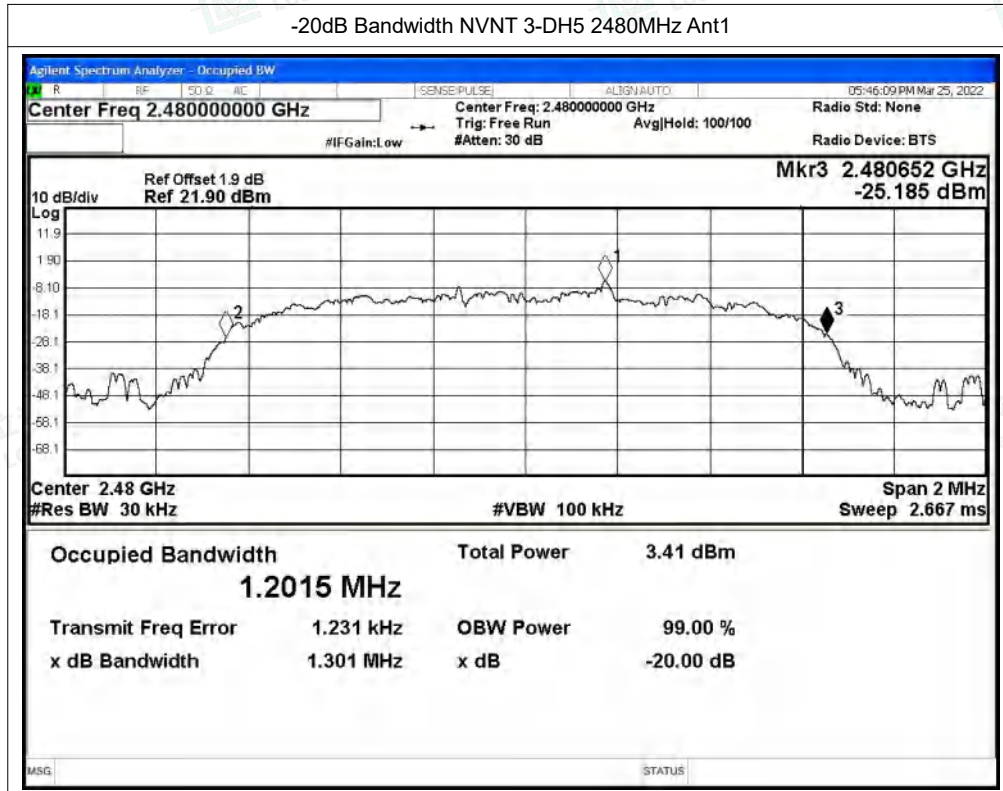


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Conducted Output Power

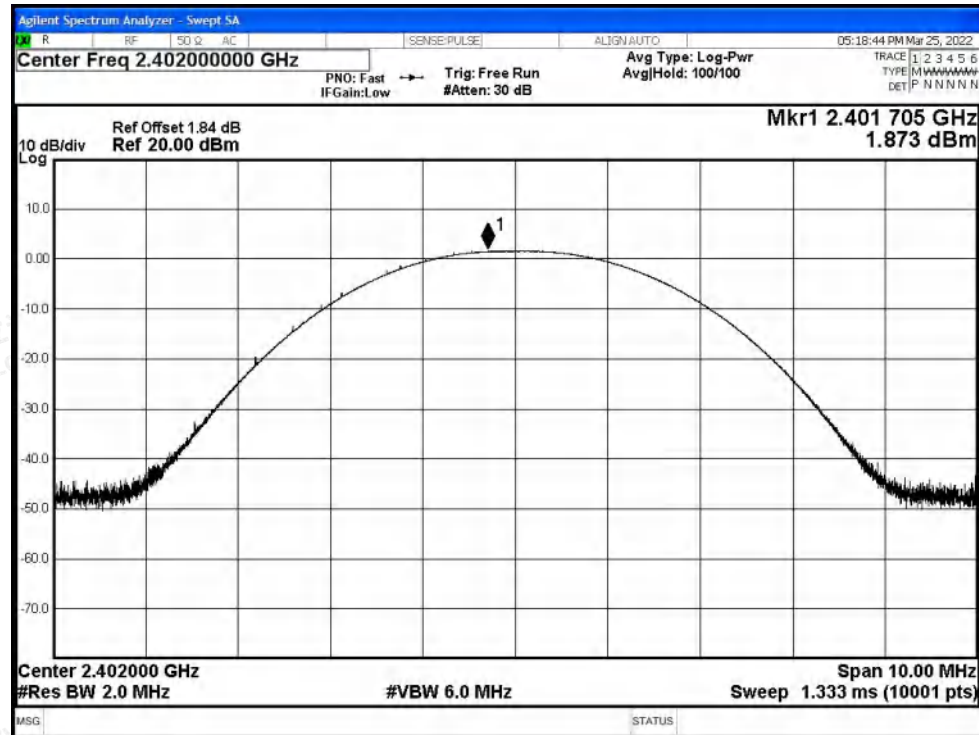
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.87	0	1.87	21	Pass
NVNT	1-DH5	2441	Ant1	1.92	0	1.92	21	Pass
NVNT	1-DH5	2480	Ant1	0.62	0	0.62	21	Pass
NVNT	2-DH5	2402	Ant1	1.01	0	1.01	21	Pass
NVNT	2-DH5	2441	Ant1	0.81	0	0.81	21	Pass
NVNT	2-DH5	2480	Ant1	-0.5	0	-0.5	21	Pass
NVNT	3-DH5	2402	Ant1	1.35	0	1.35	21	Pass
NVNT	3-DH5	2441	Ant1	1.15	0	1.15	21	Pass
NVNT	3-DH5	2480	Ant1	-0.19	0	-0.19	21	Pass



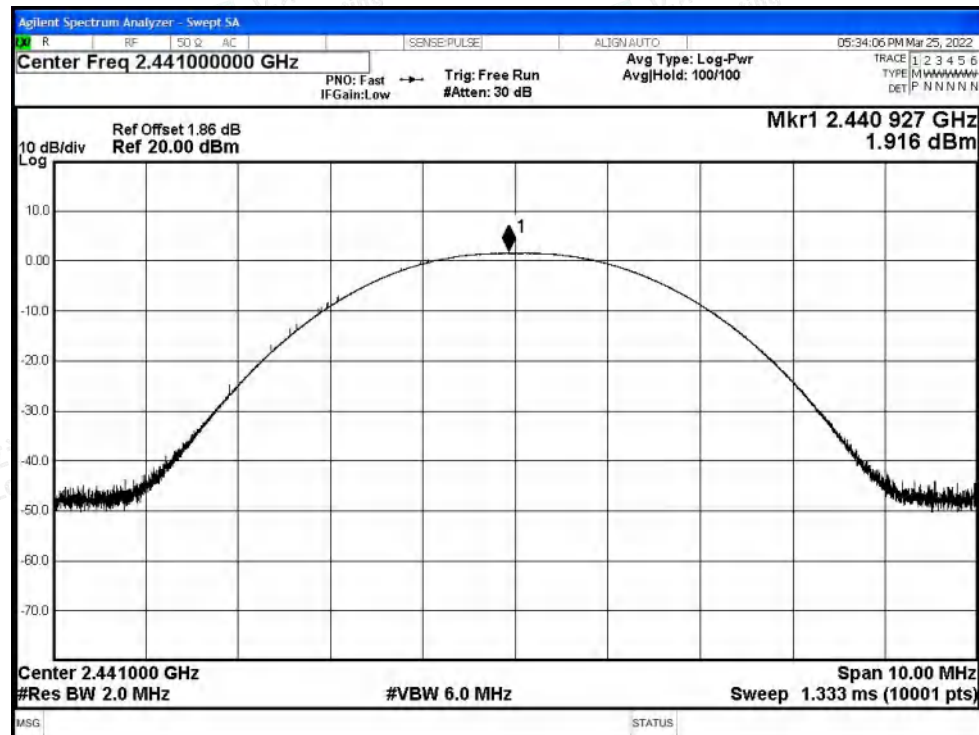


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



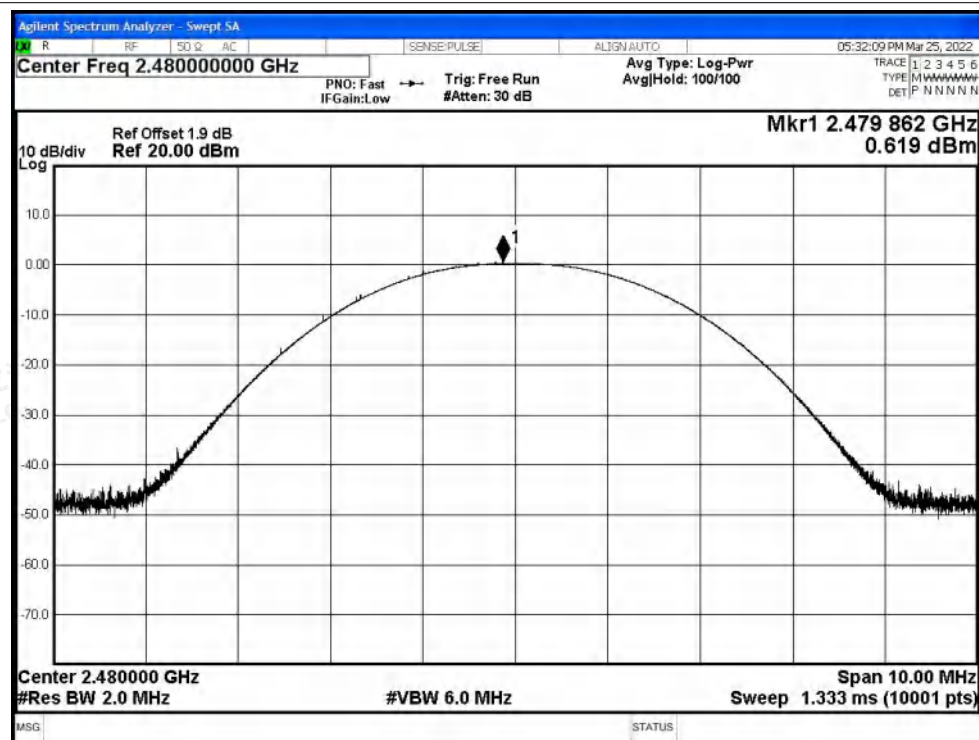
Power NVNT 1-DH5 2441MHz Ant1



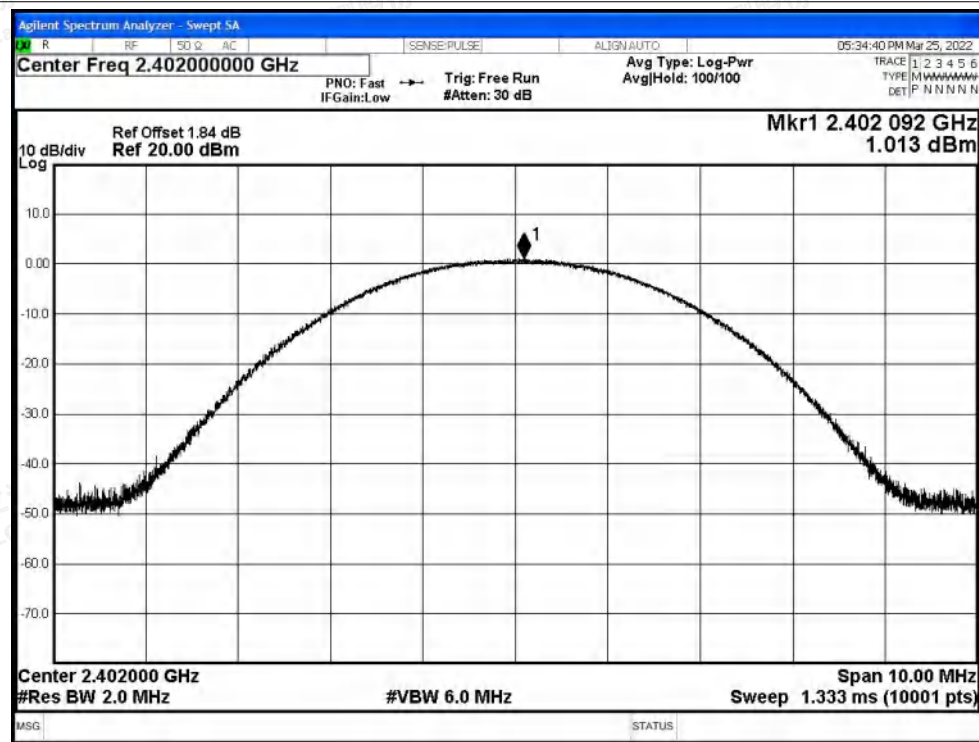


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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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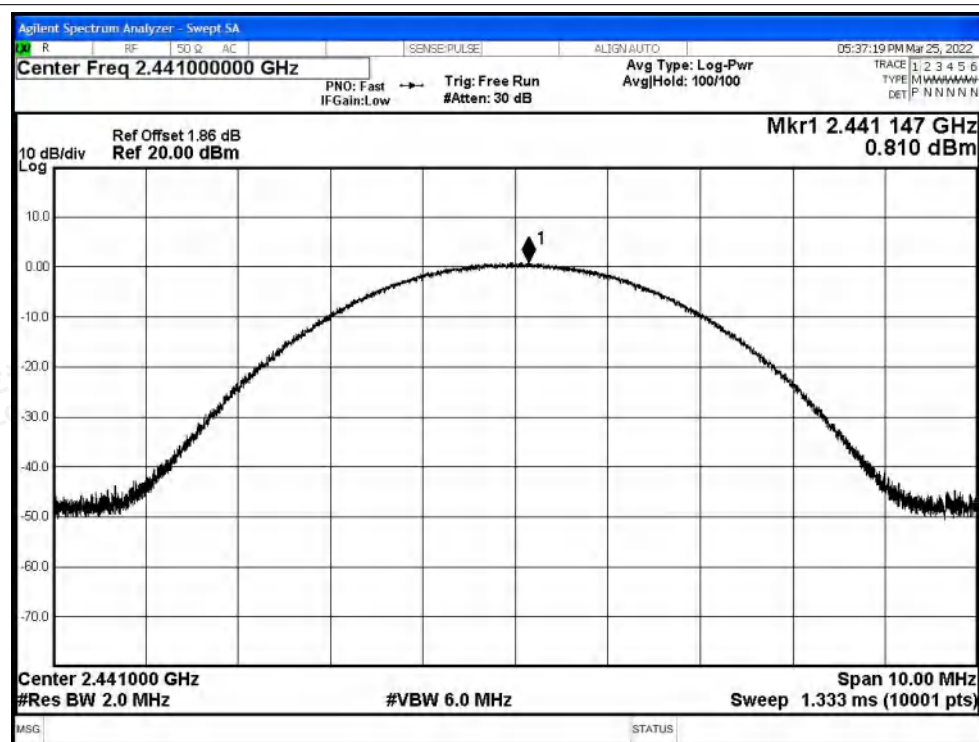
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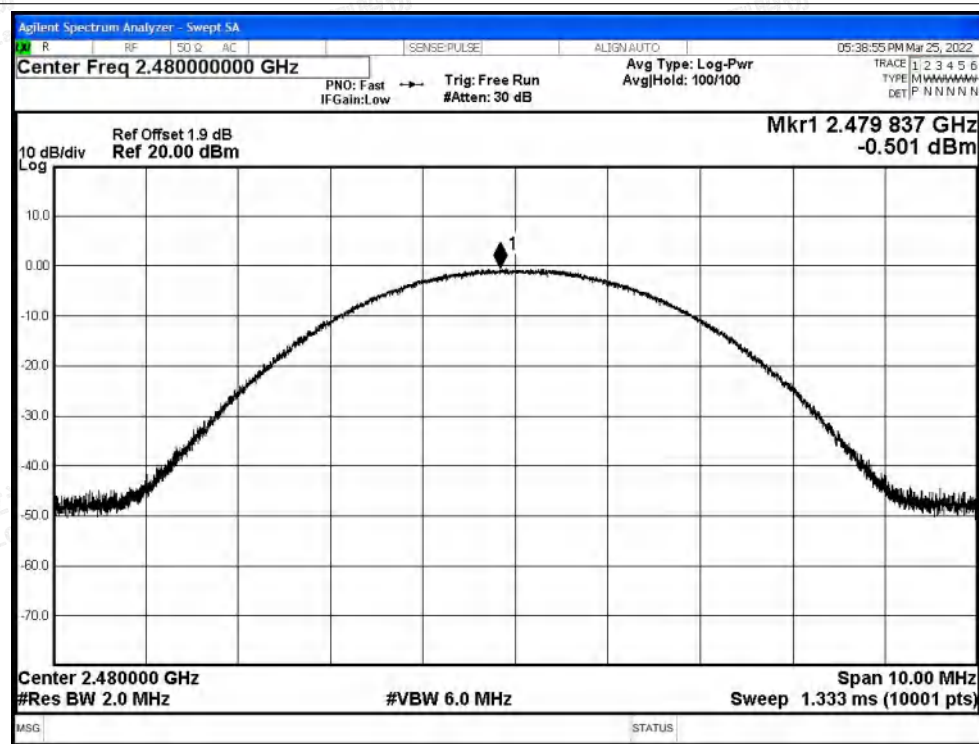


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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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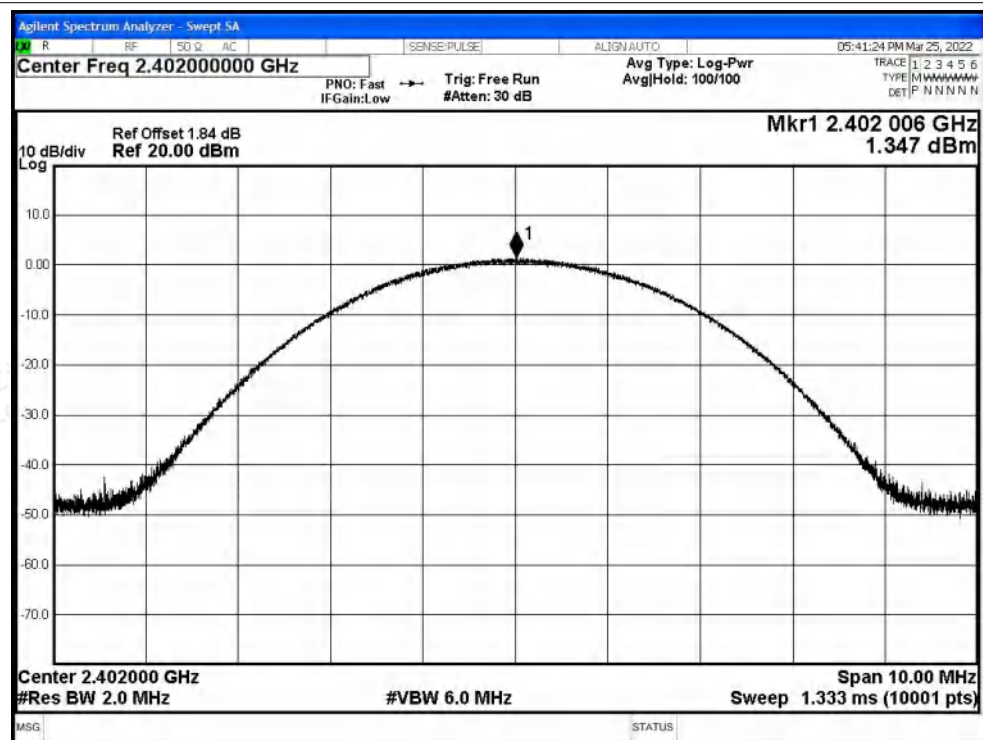
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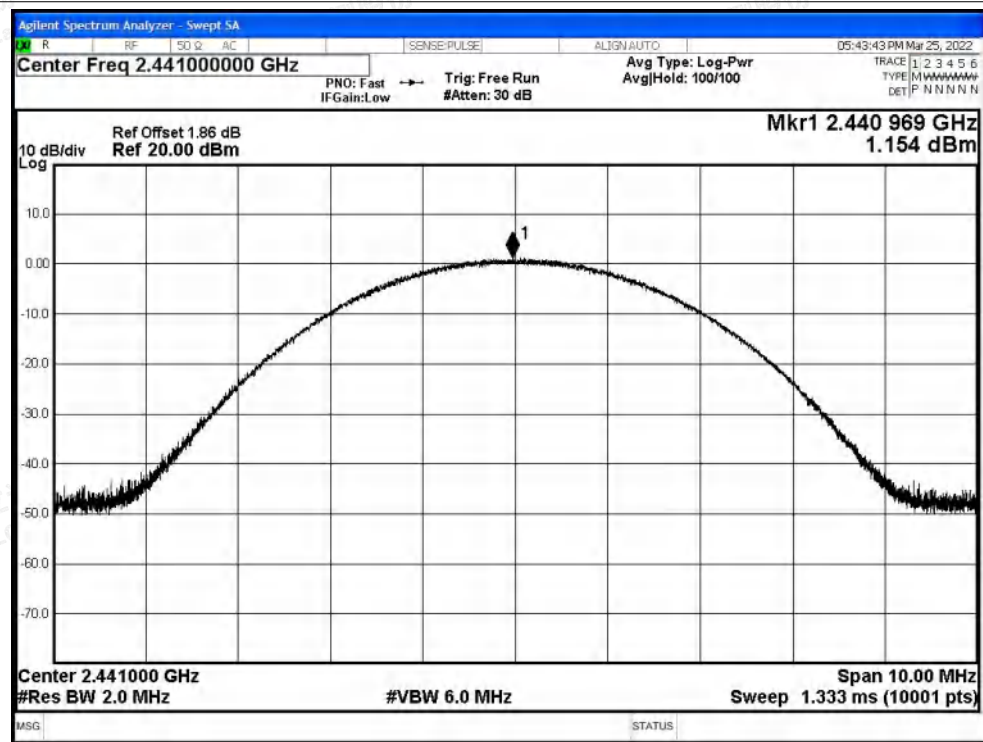


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Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



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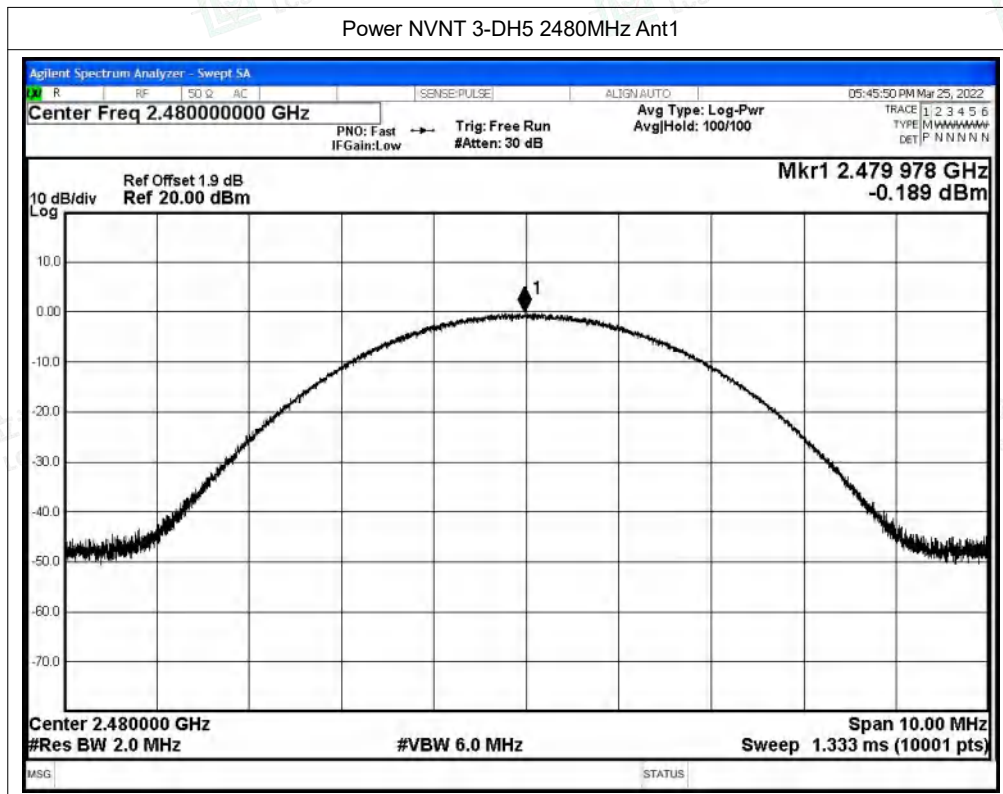
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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2440.998	2442.03	1.032	0.683	Pass
NVNT	2-DH5	Ant1	2441.172	2442.138	0.966	0.855	Pass
NVNT	3-DH5	Ant1	2441.026	2442.022	0.996	0.868	Pass

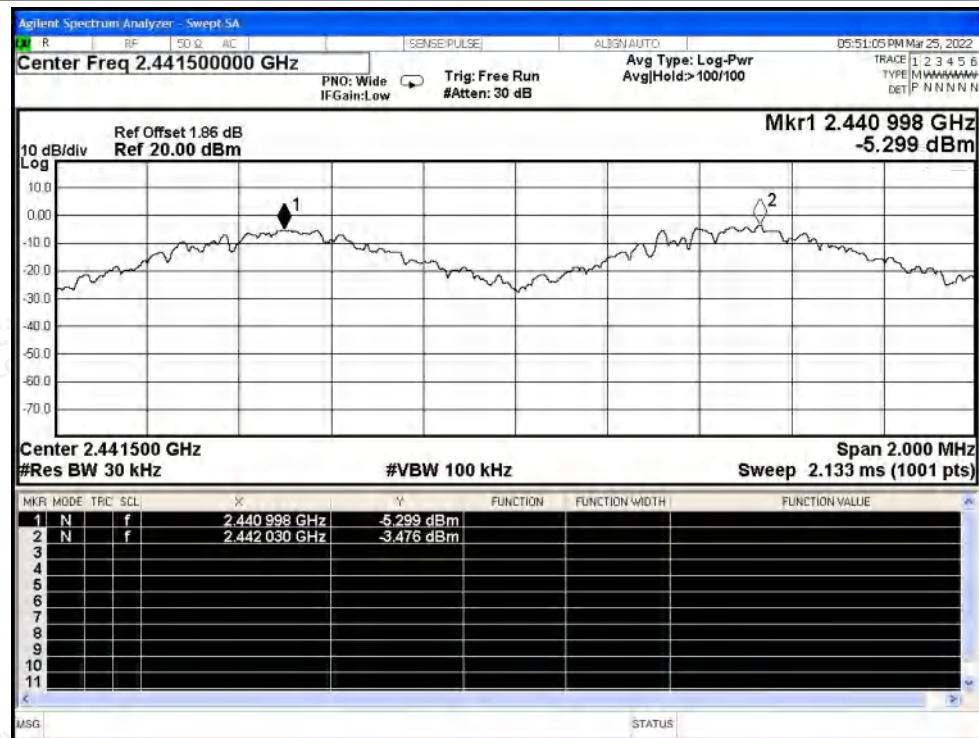




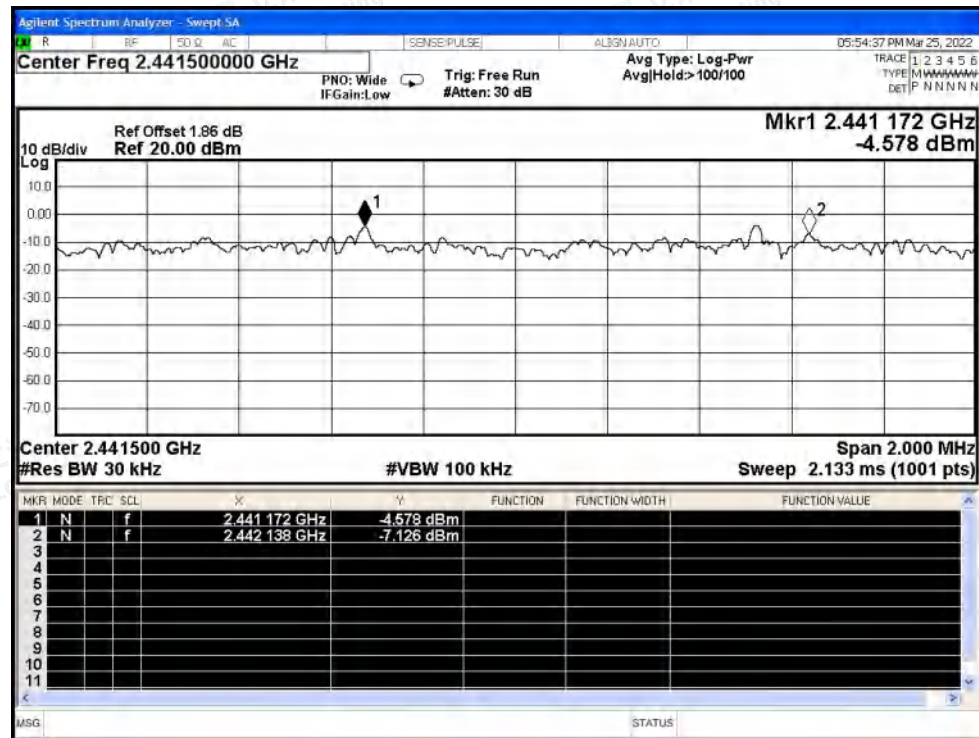
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Test Graphs

CFS NVNT 1-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



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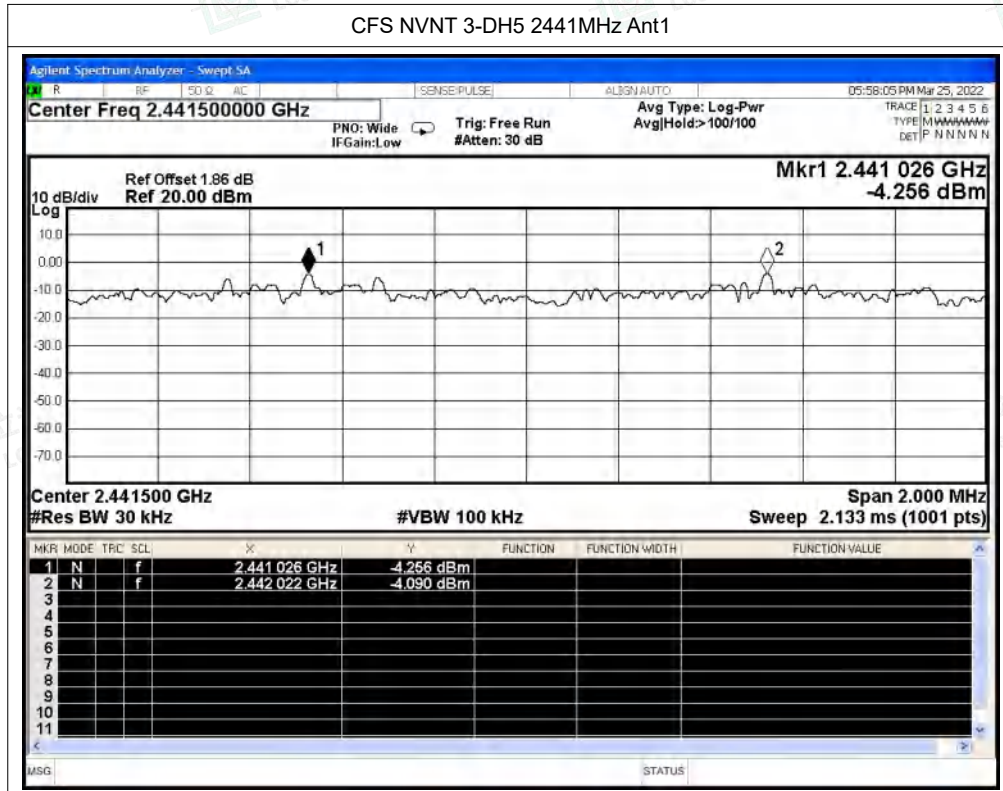
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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2441	Ant1	2.909	343.262	118	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.898	301.392	104	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.896	292.496	101	31600	400	Pass

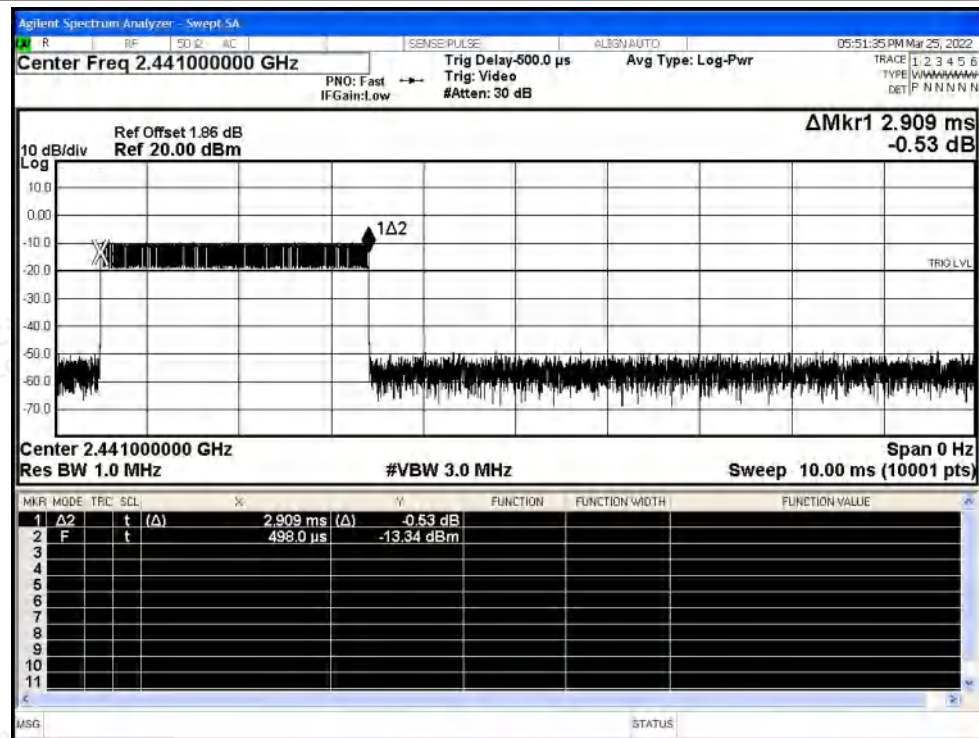




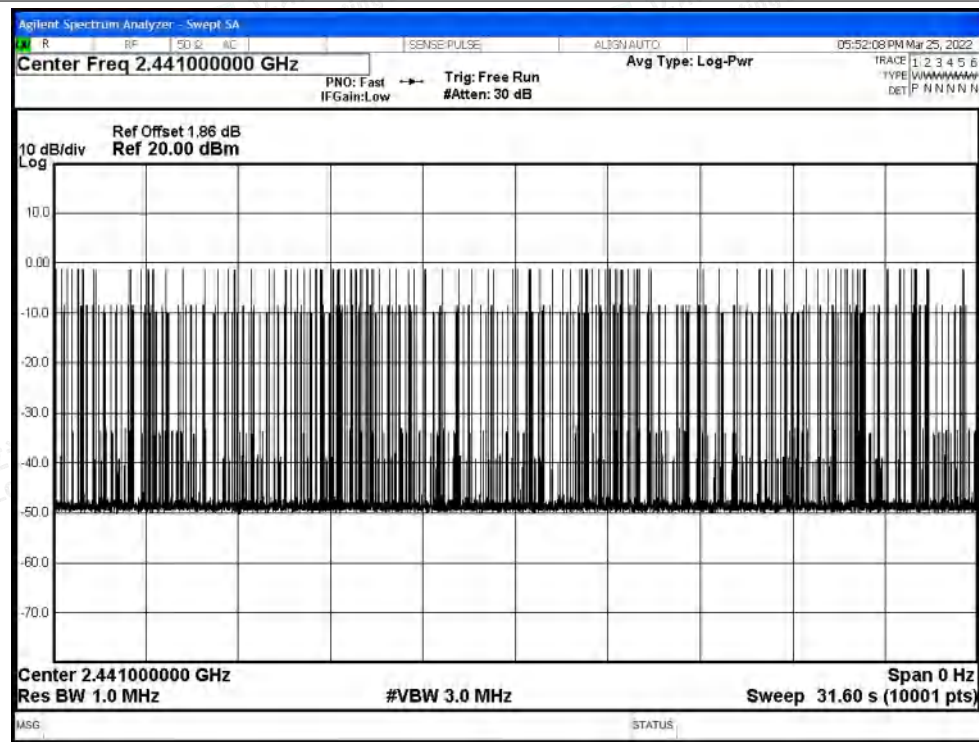
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Test Graphs

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



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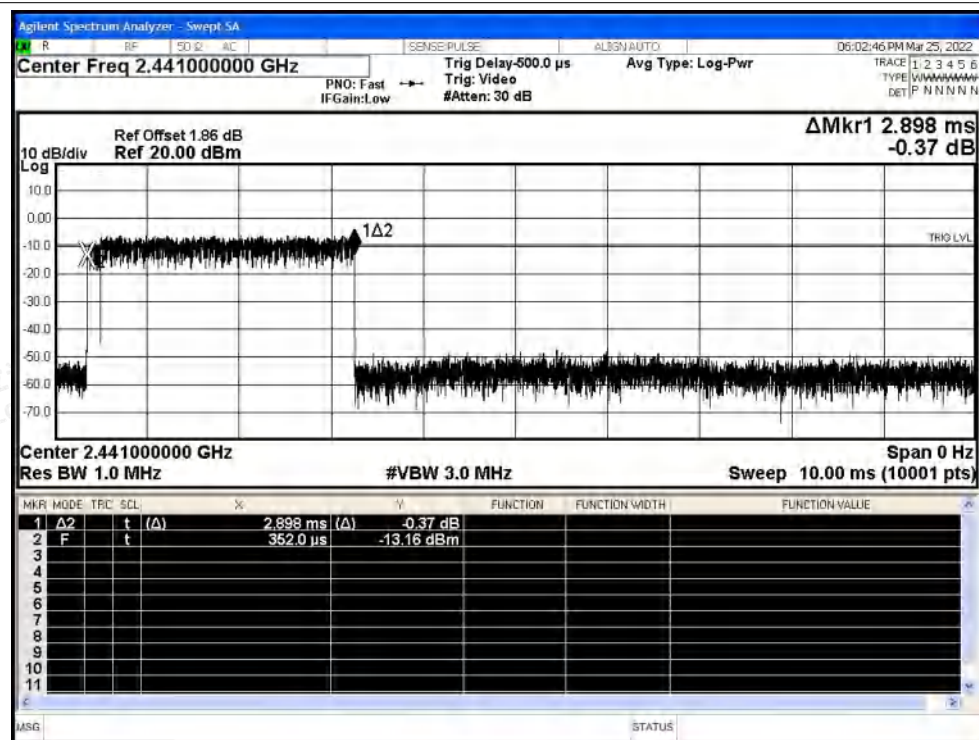
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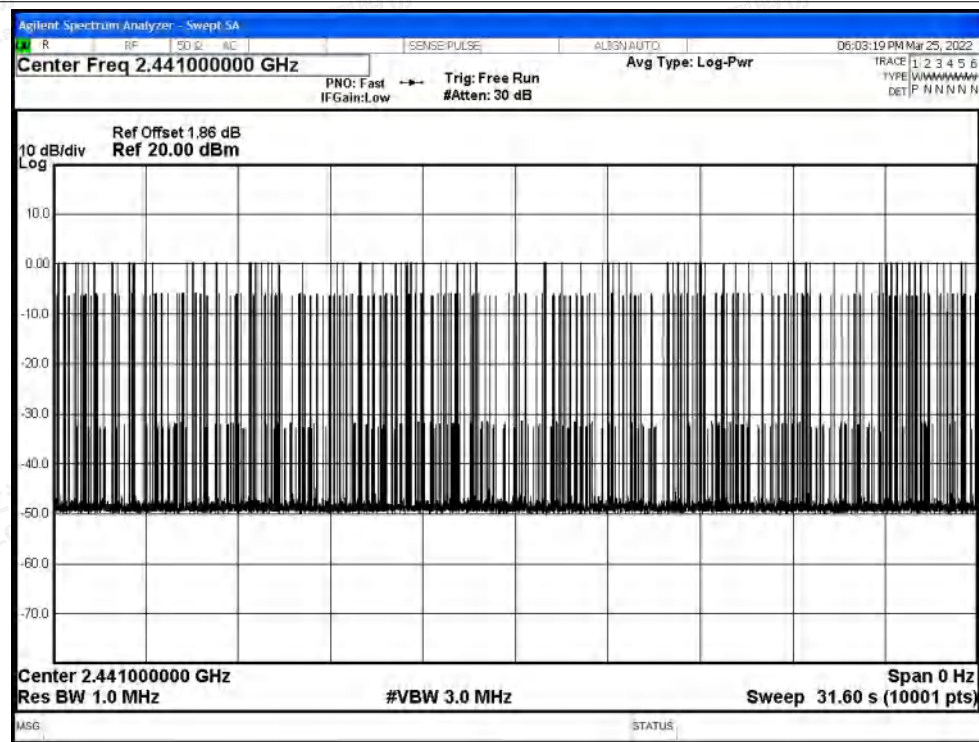


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Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



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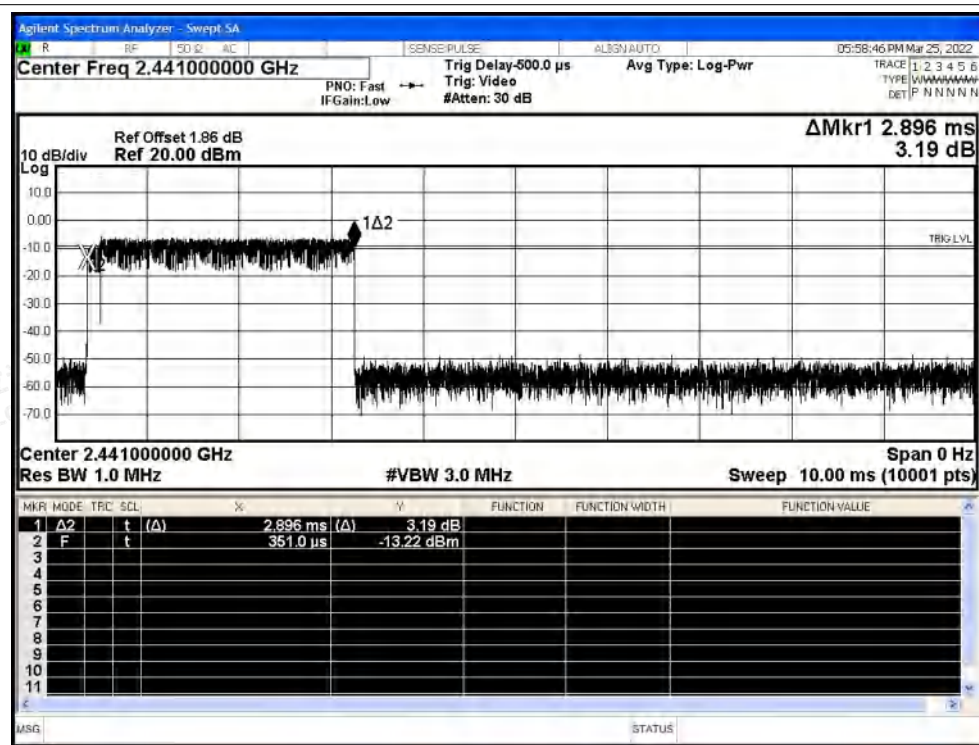
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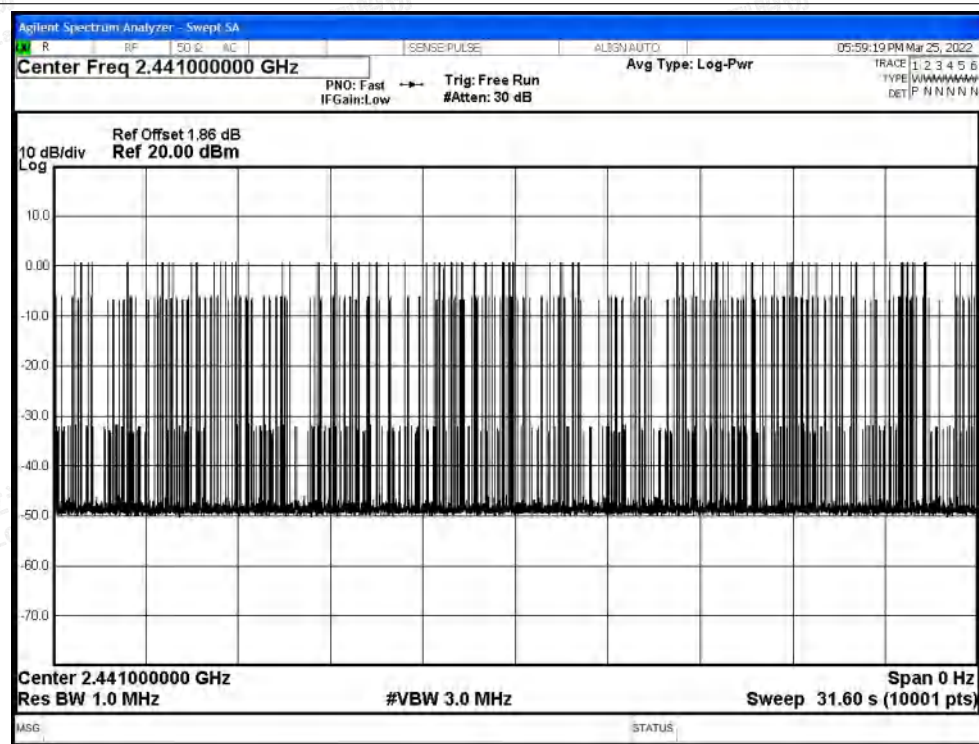


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Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



A.5 Number of Hopping Channel

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



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NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

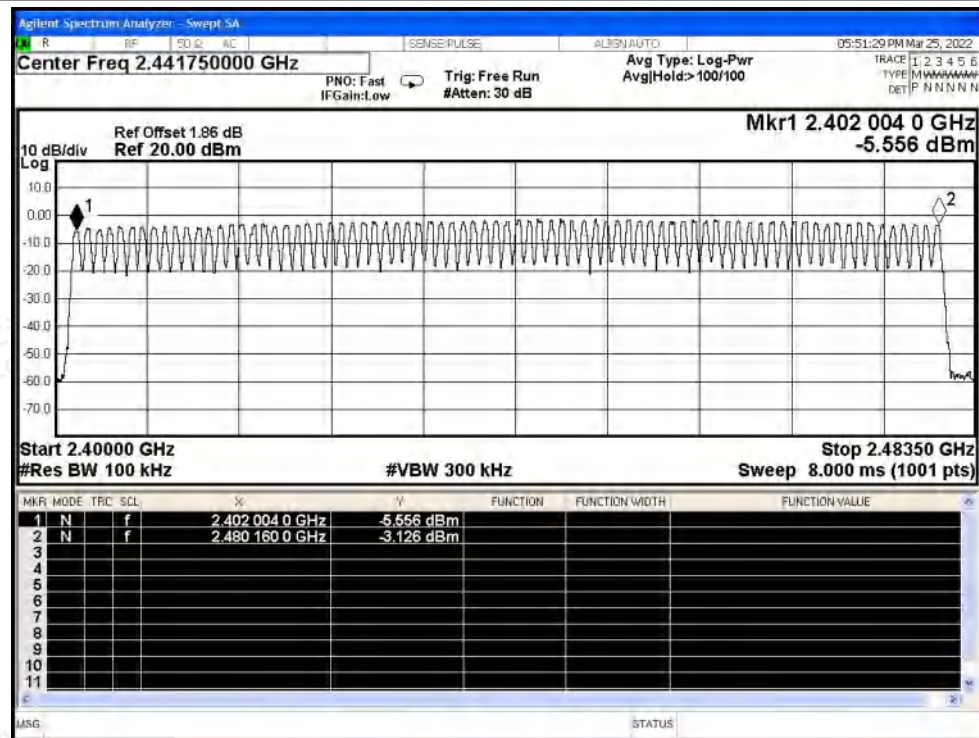




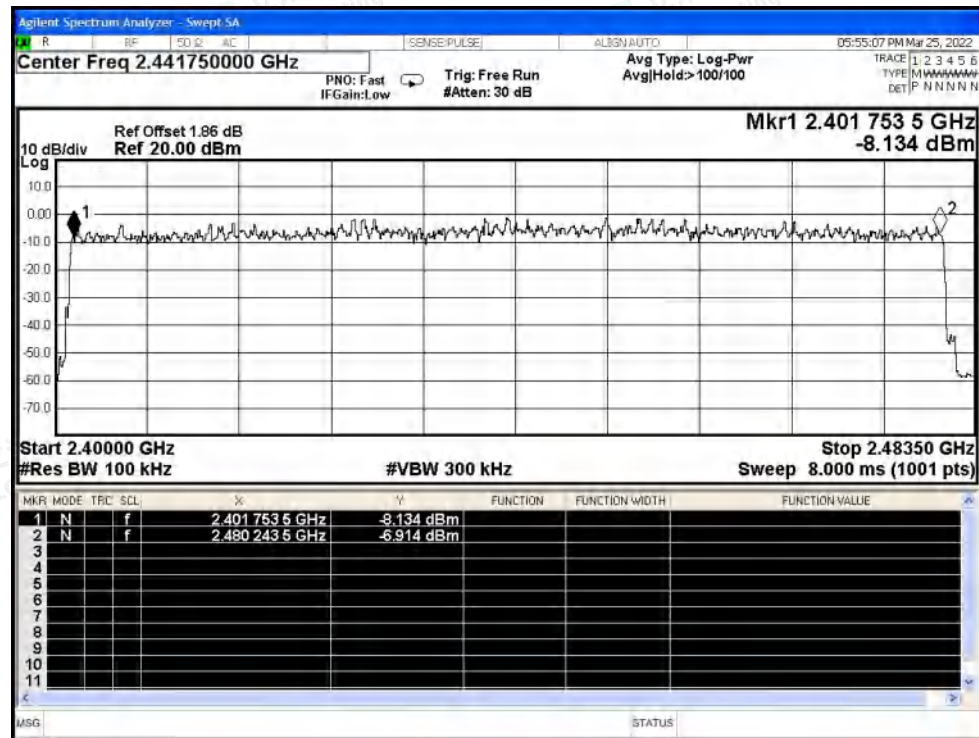
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Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1



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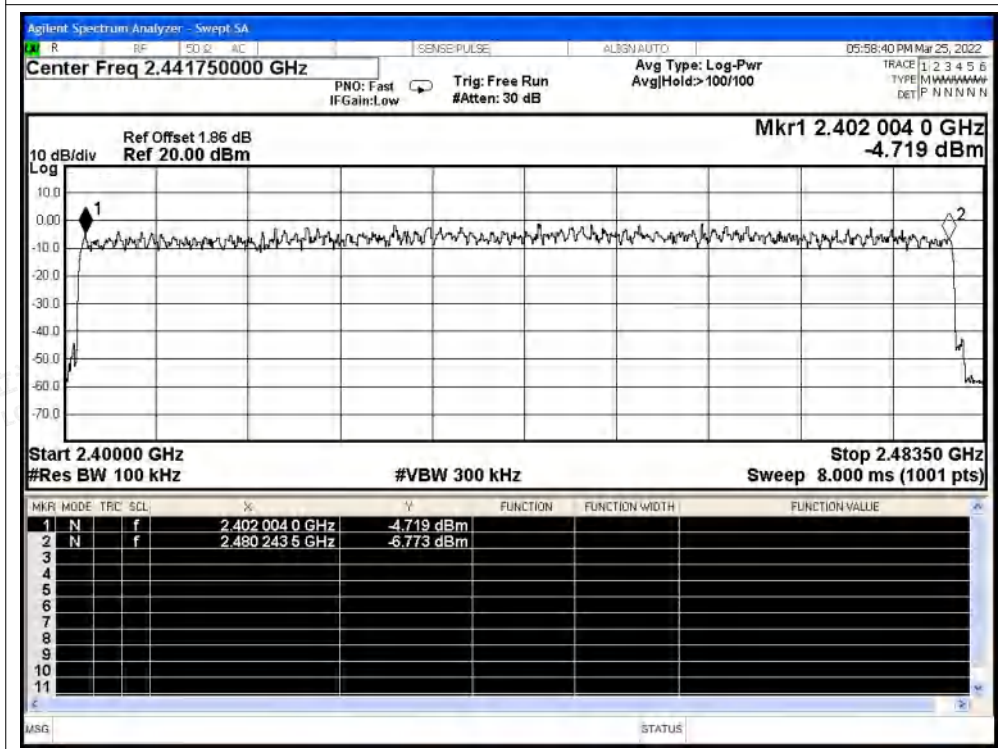
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Hopping No. NVNT 3-DH5 2441MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.17	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.89	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.87	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-51.62	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.01	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.54	-20	Pass

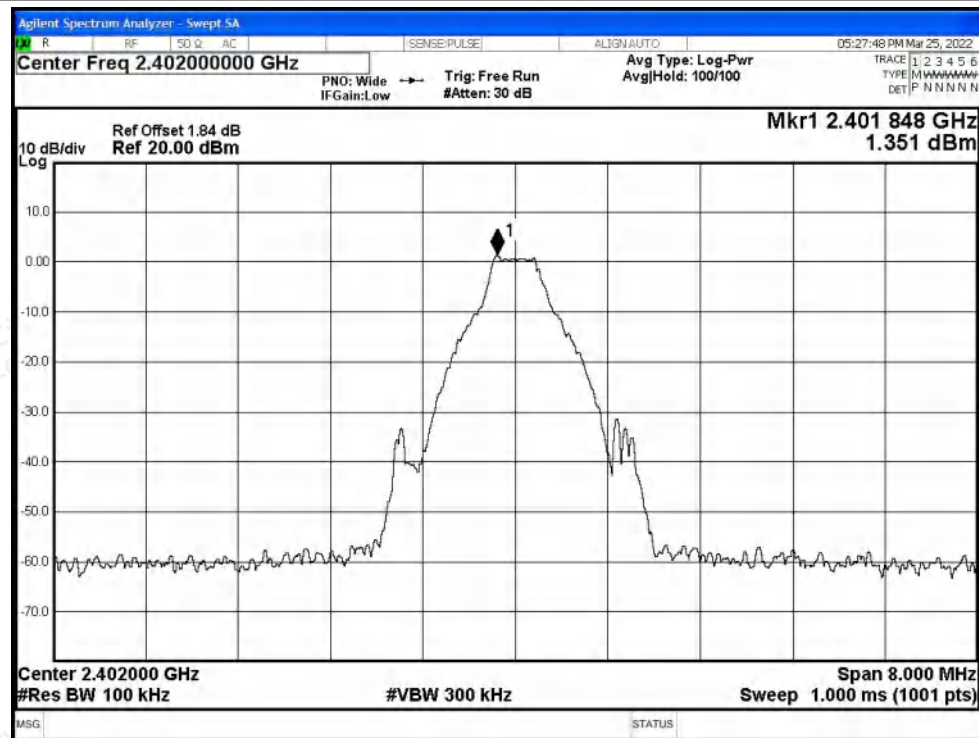




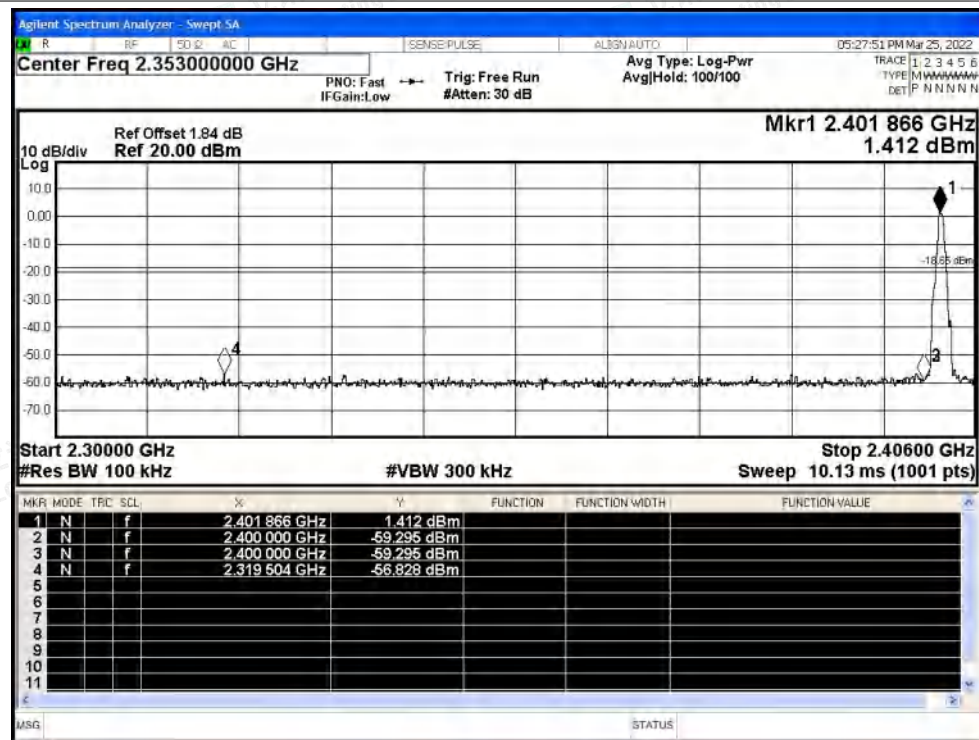
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Test Graphs

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



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



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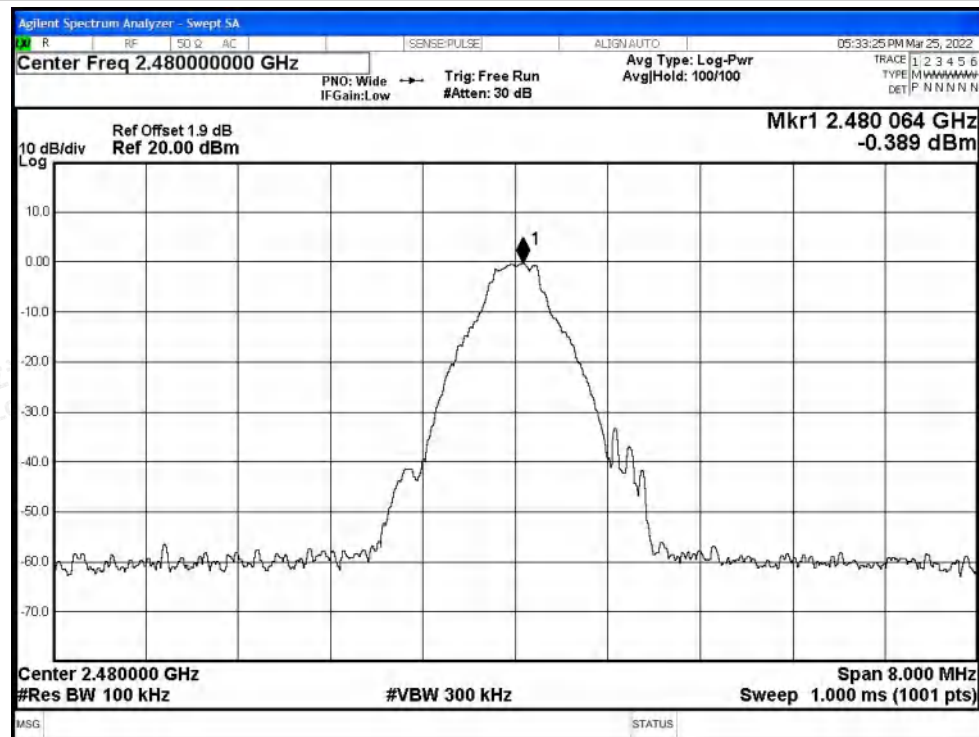
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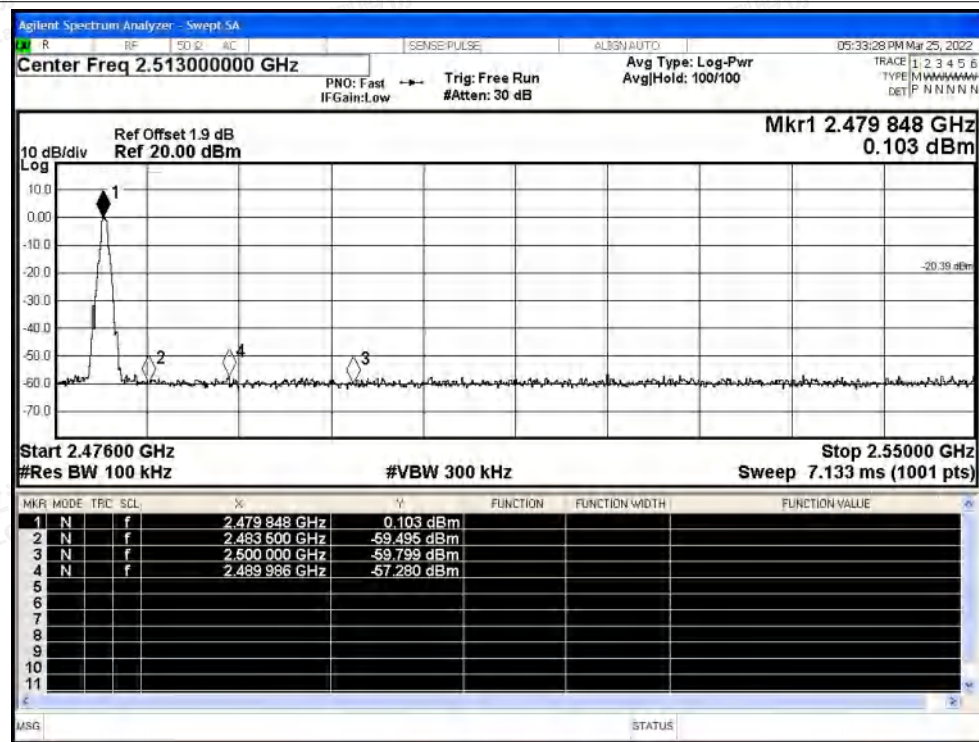


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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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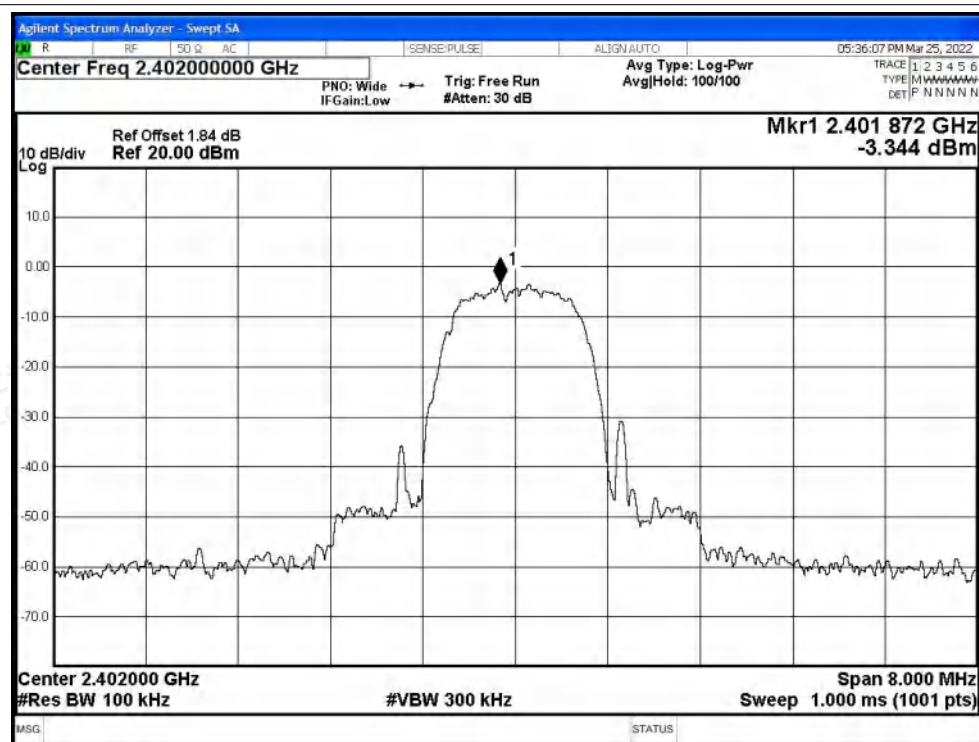
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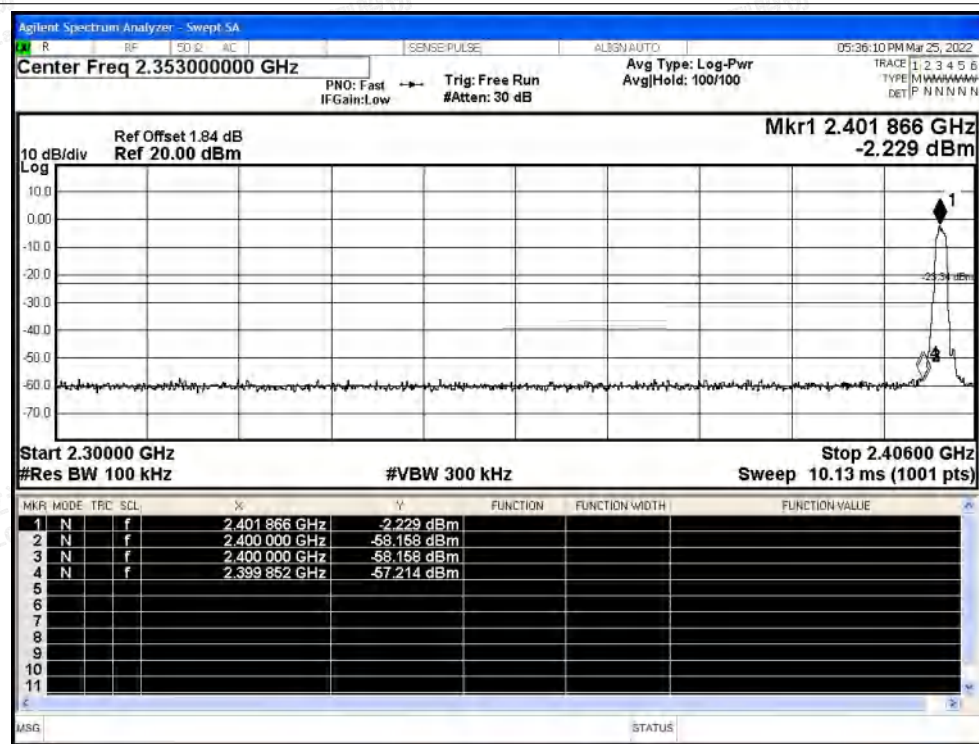


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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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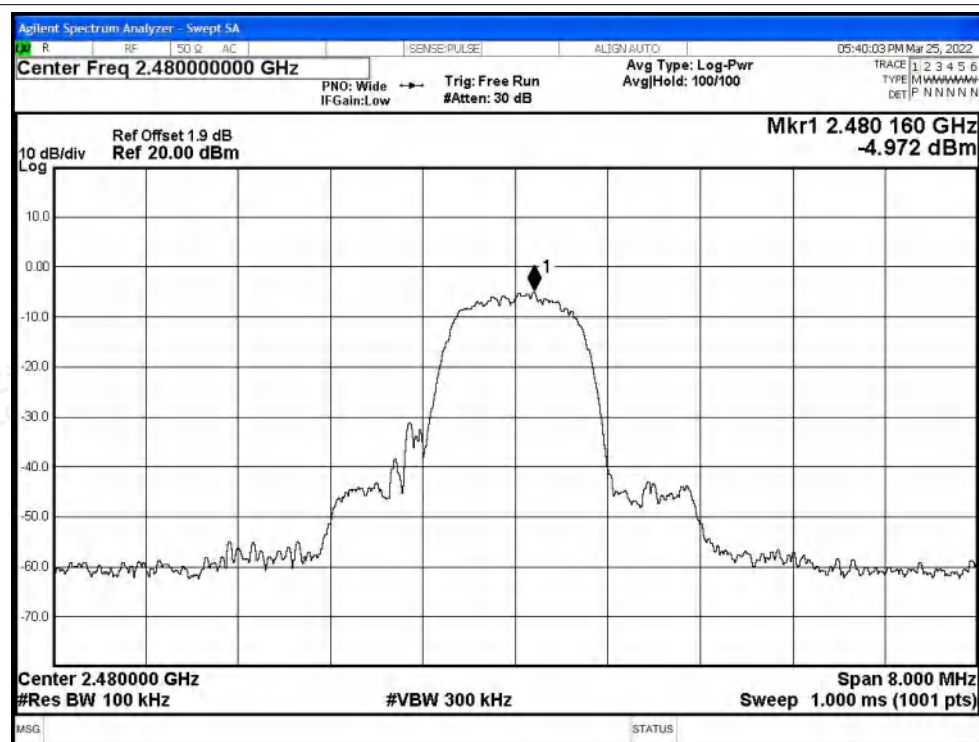
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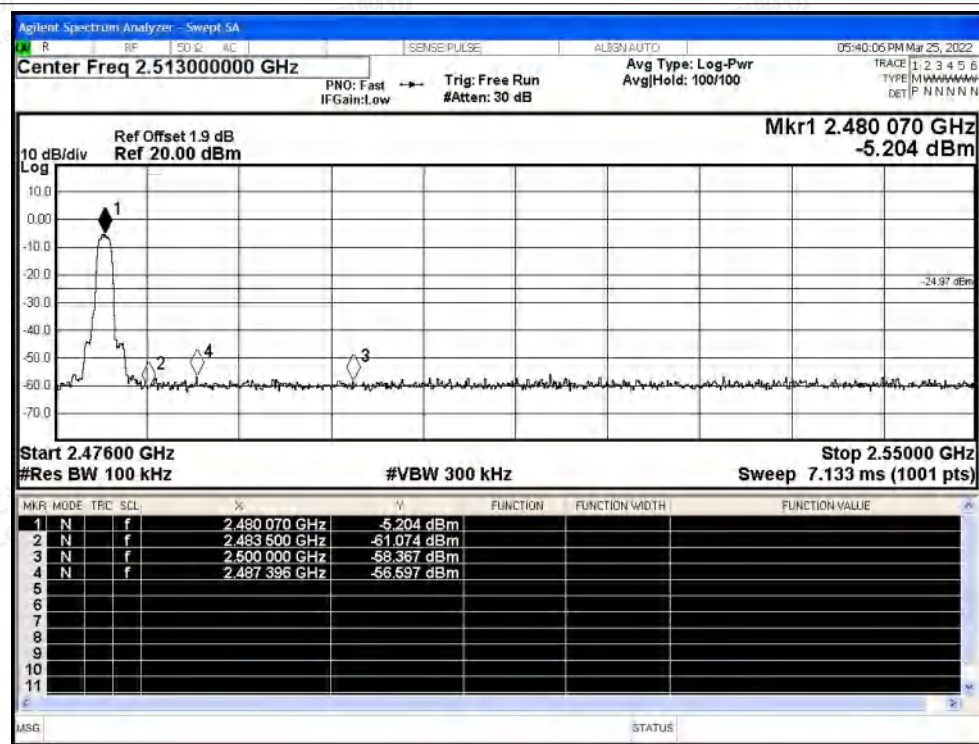


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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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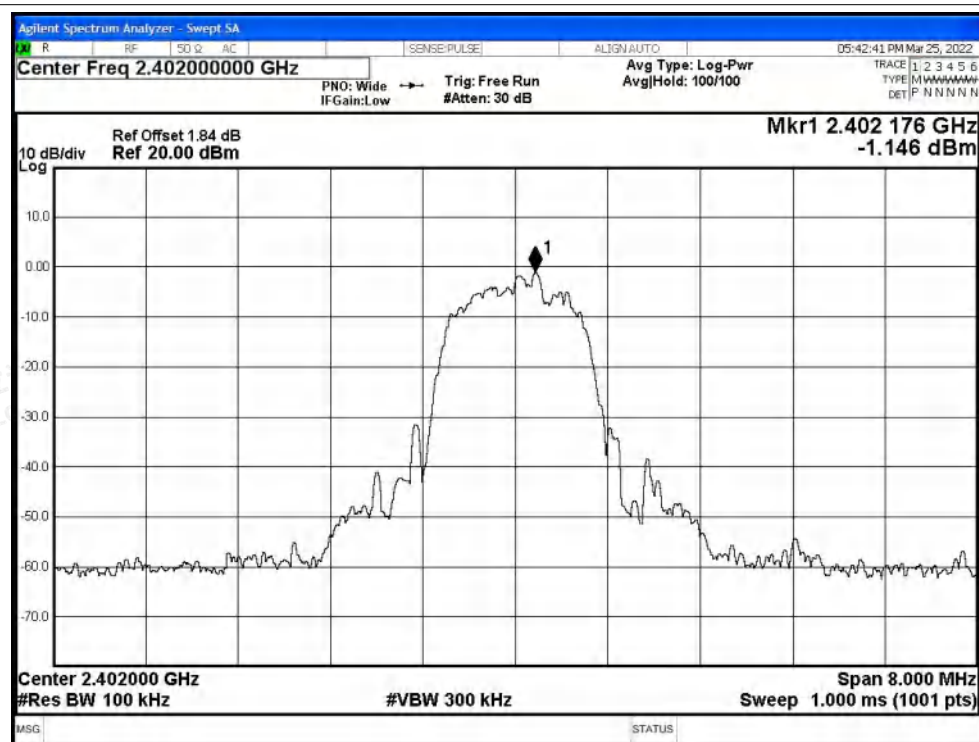
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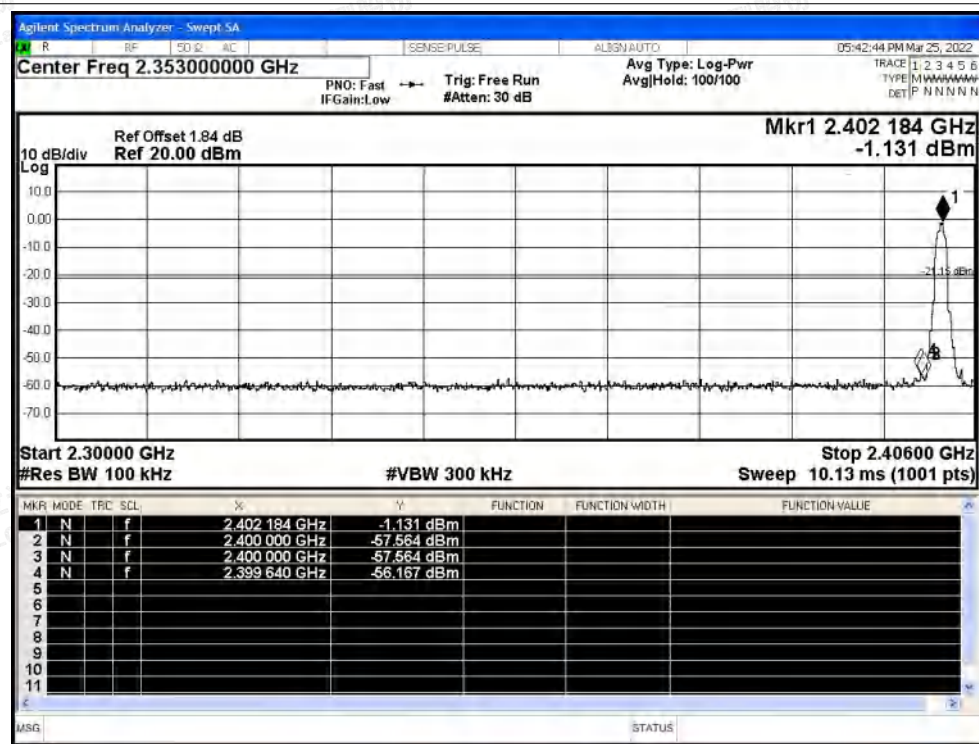


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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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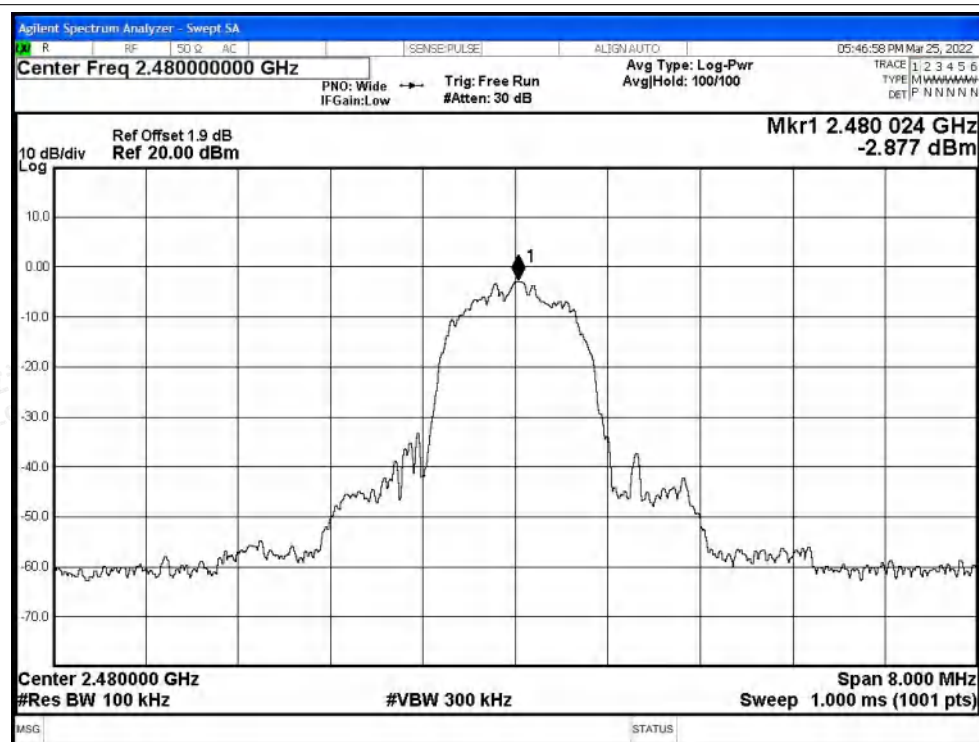
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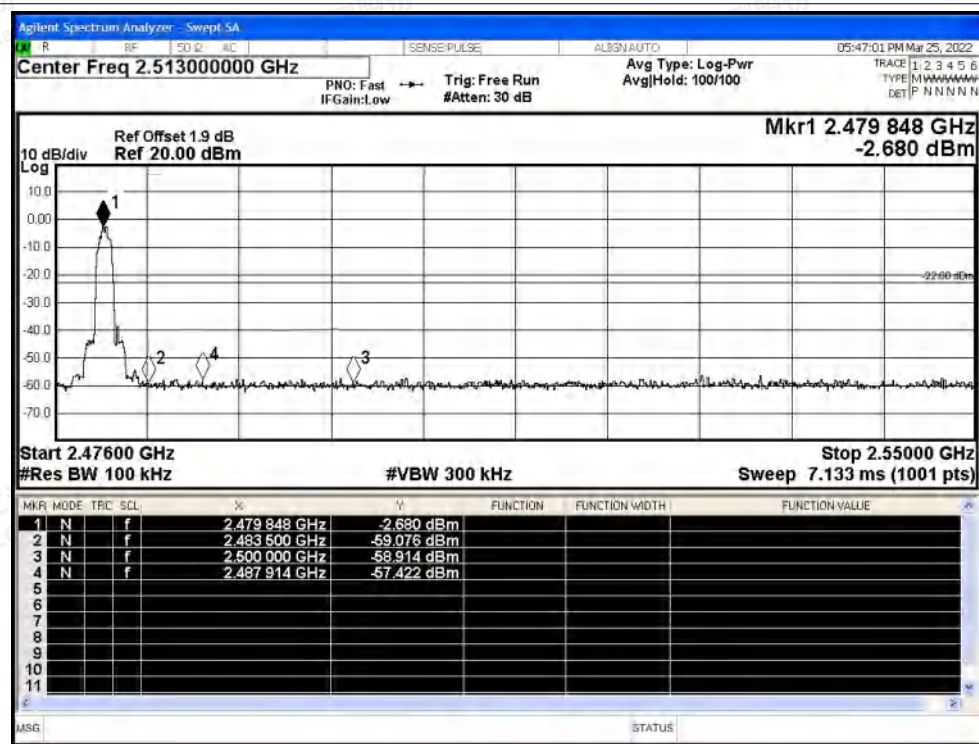


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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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Band Edge

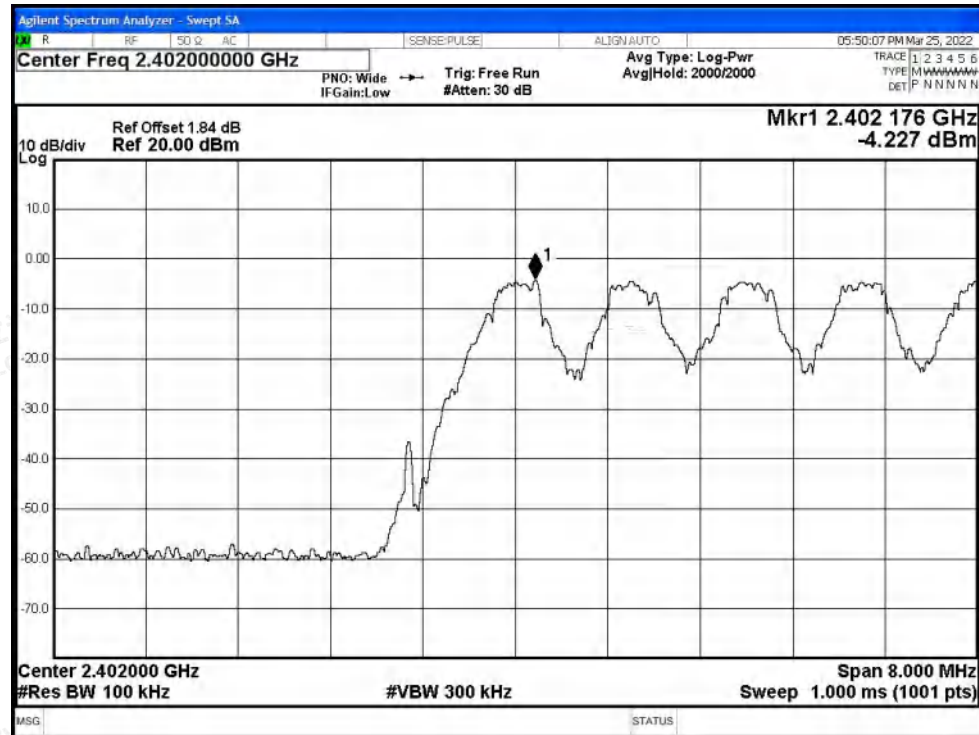
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-51.43	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.91	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.17	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.51	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.47	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.47	-20	Pass



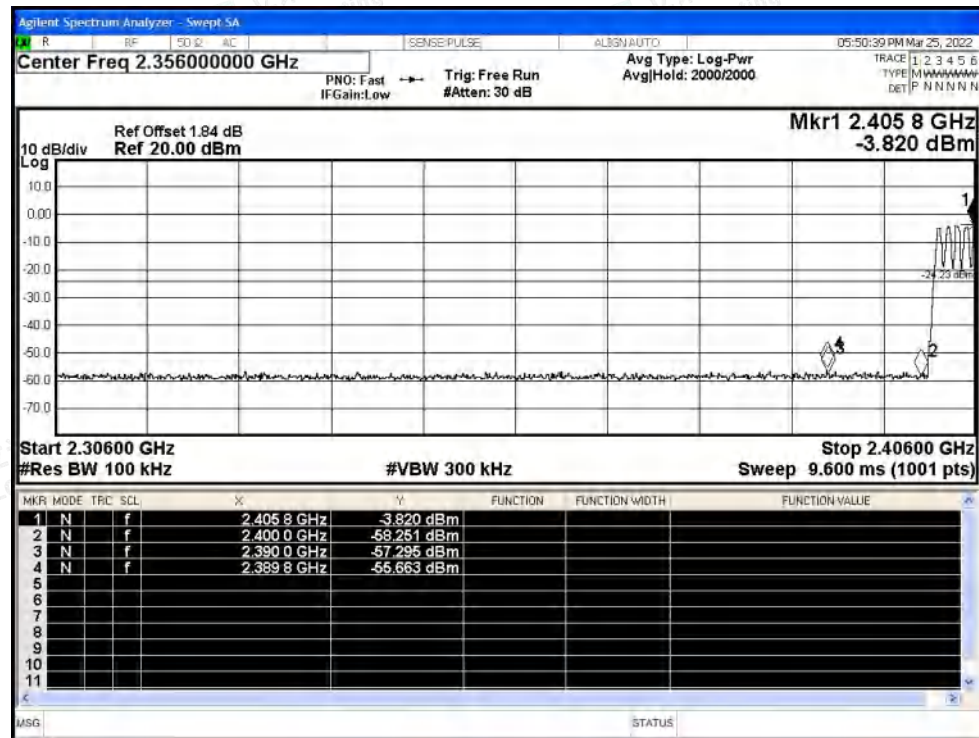


Test Graphs

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



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



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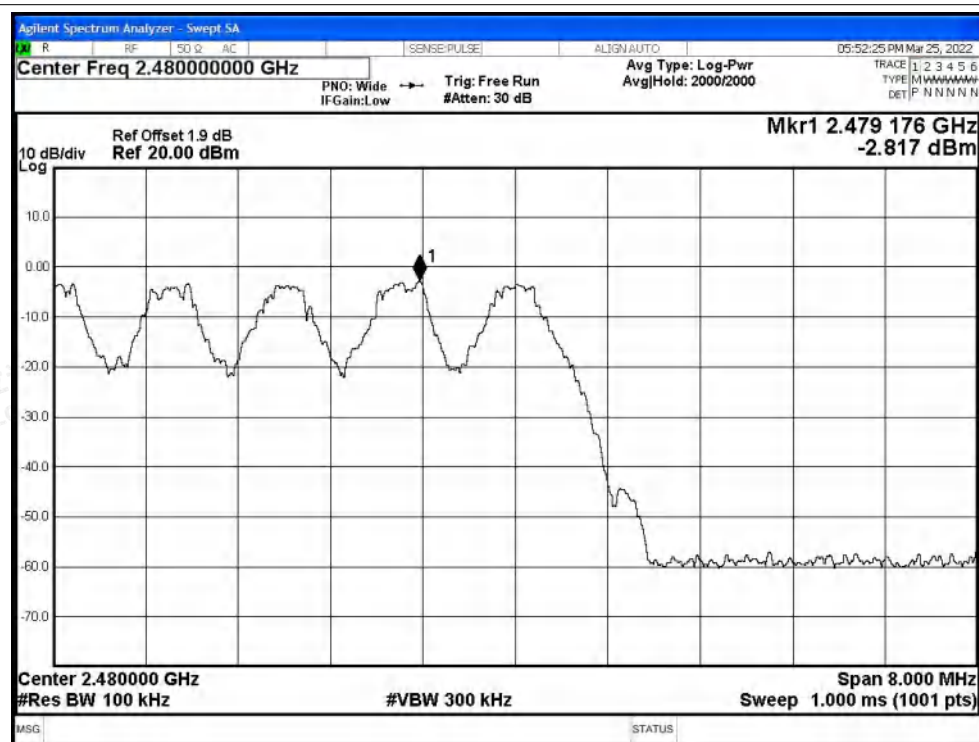
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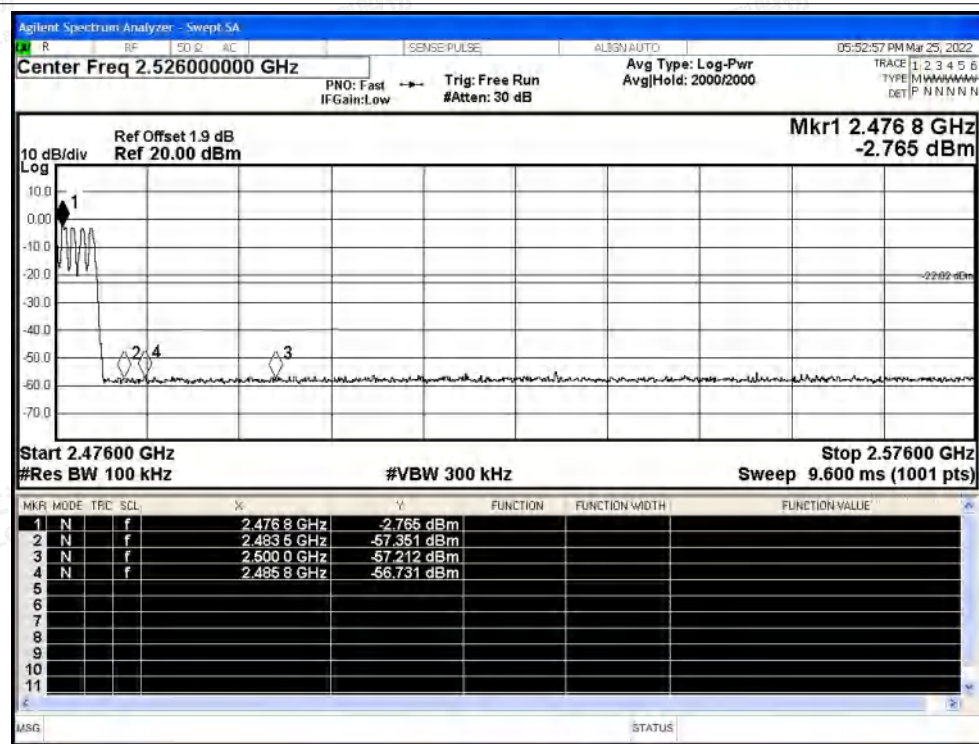


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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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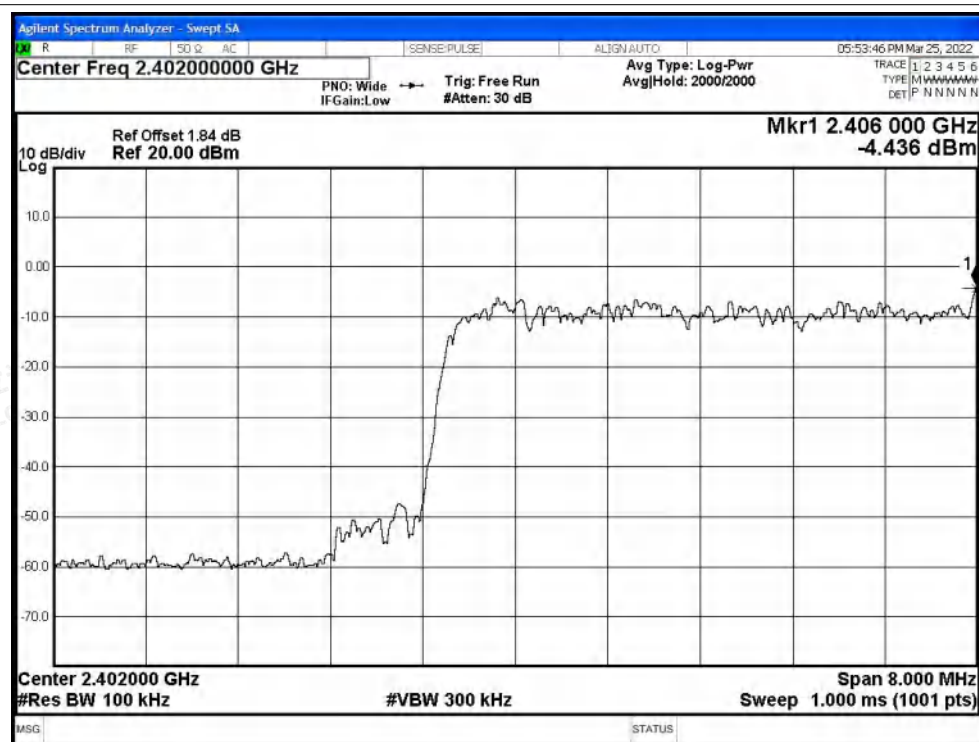
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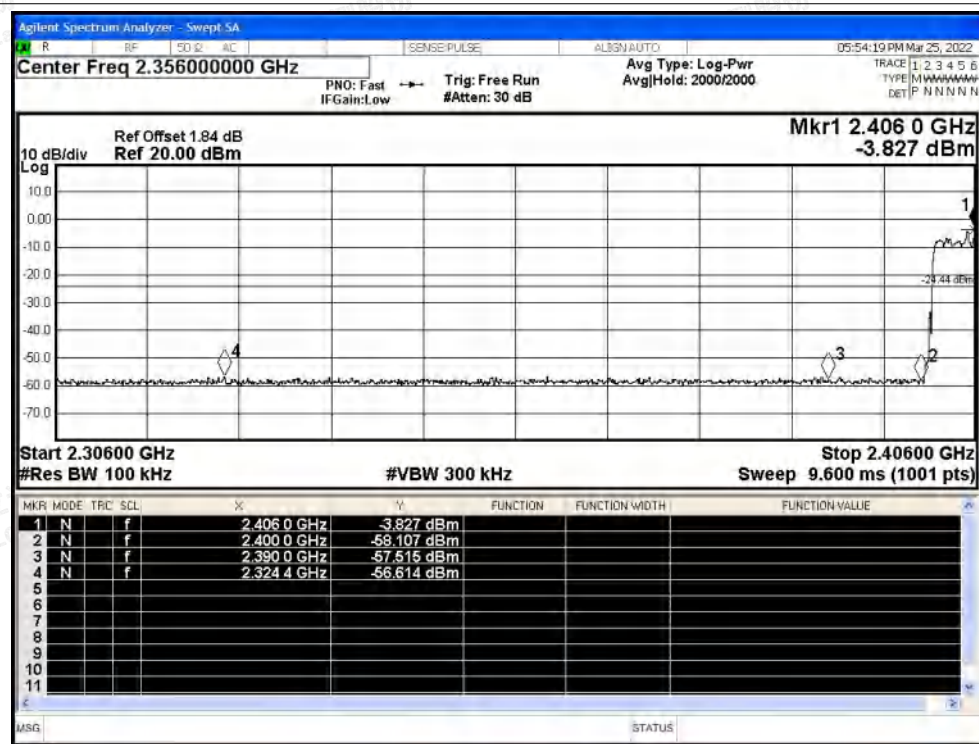


LCS 004AEA

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



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



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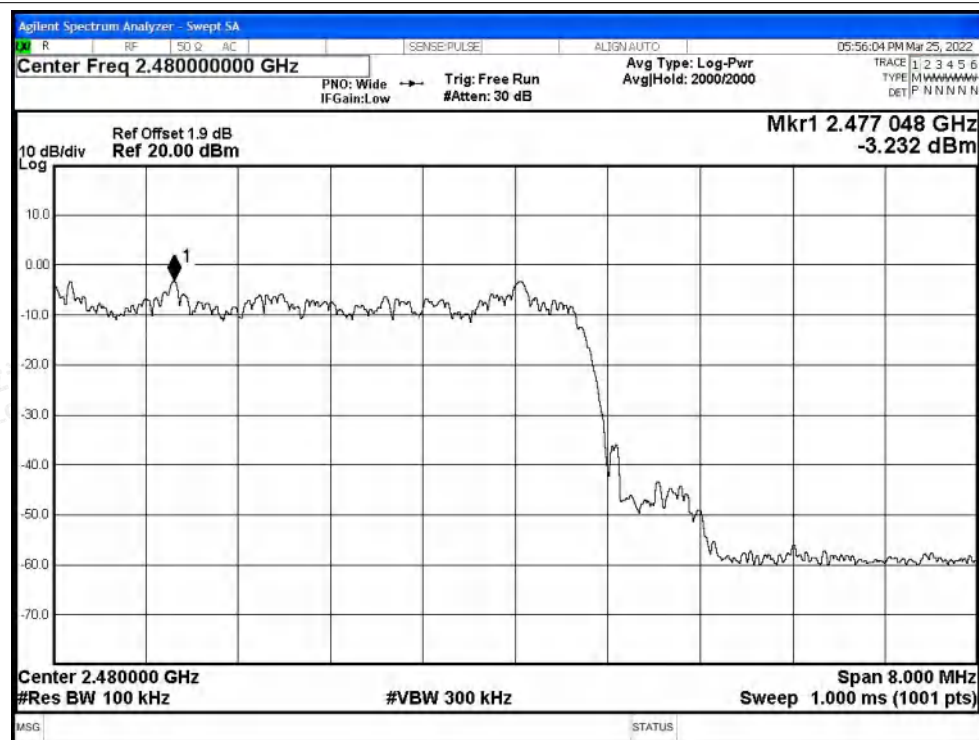
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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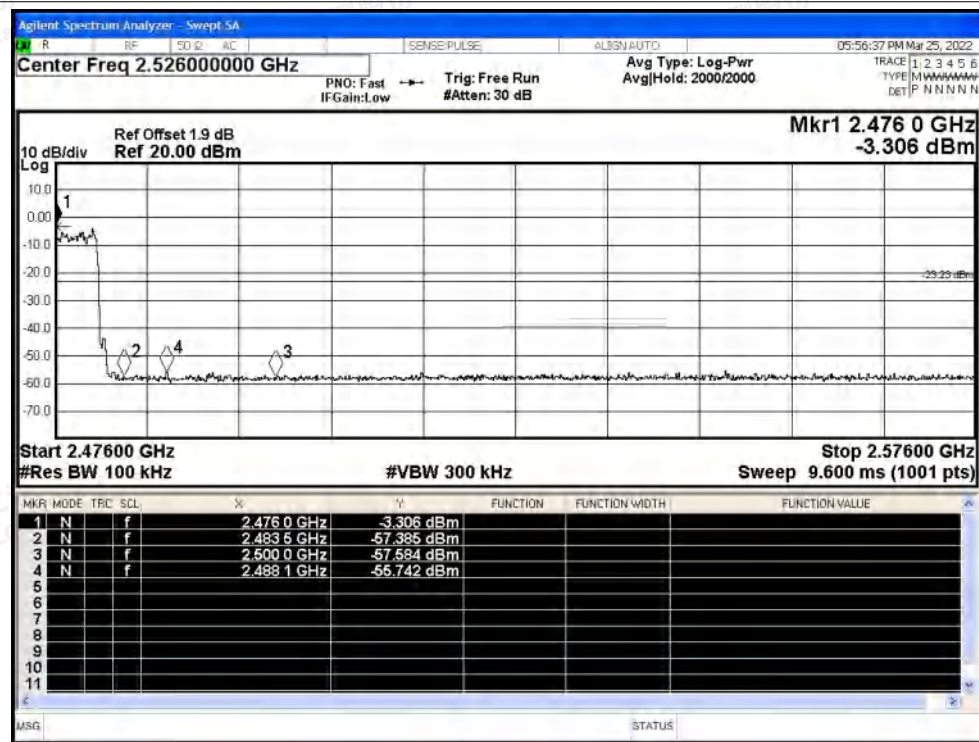


LCS 004AEA

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



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



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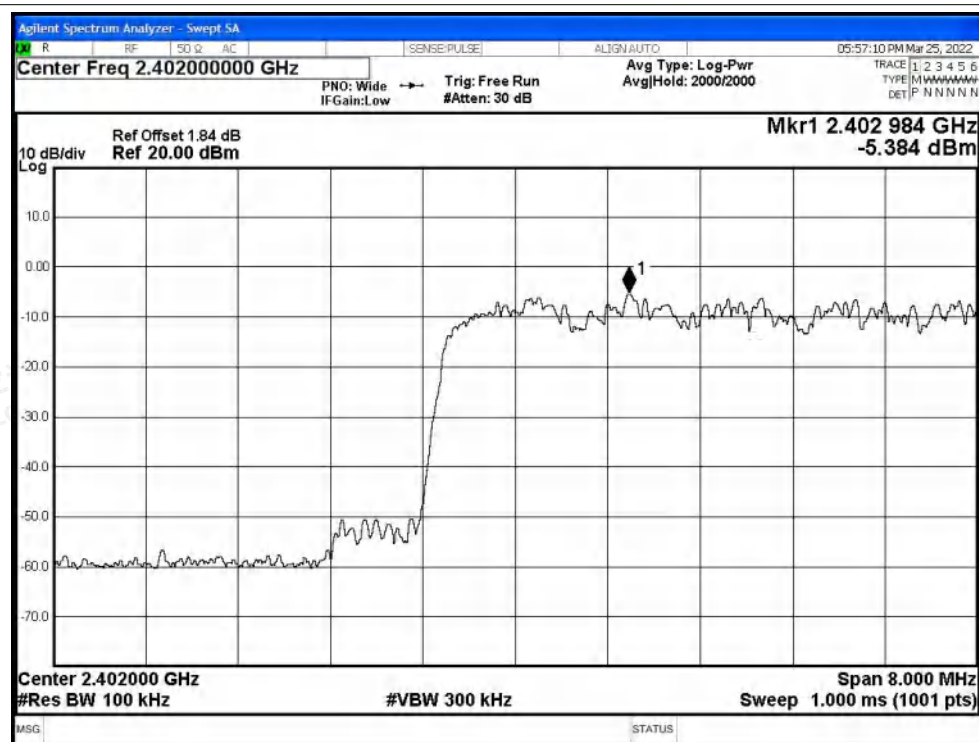
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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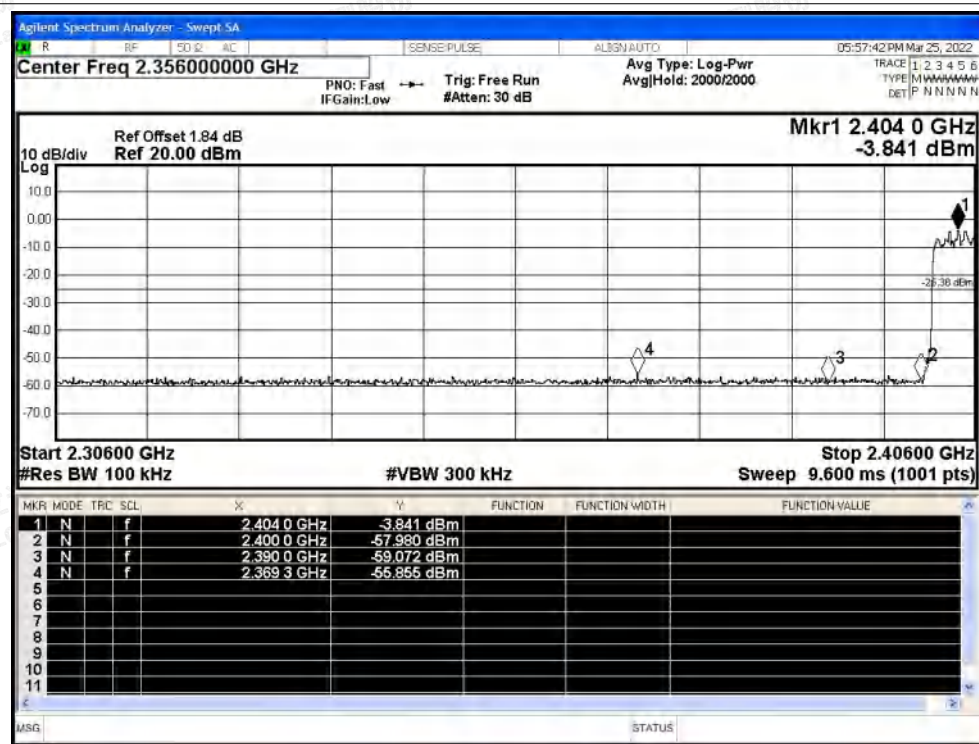


LCS 004AEA

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



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



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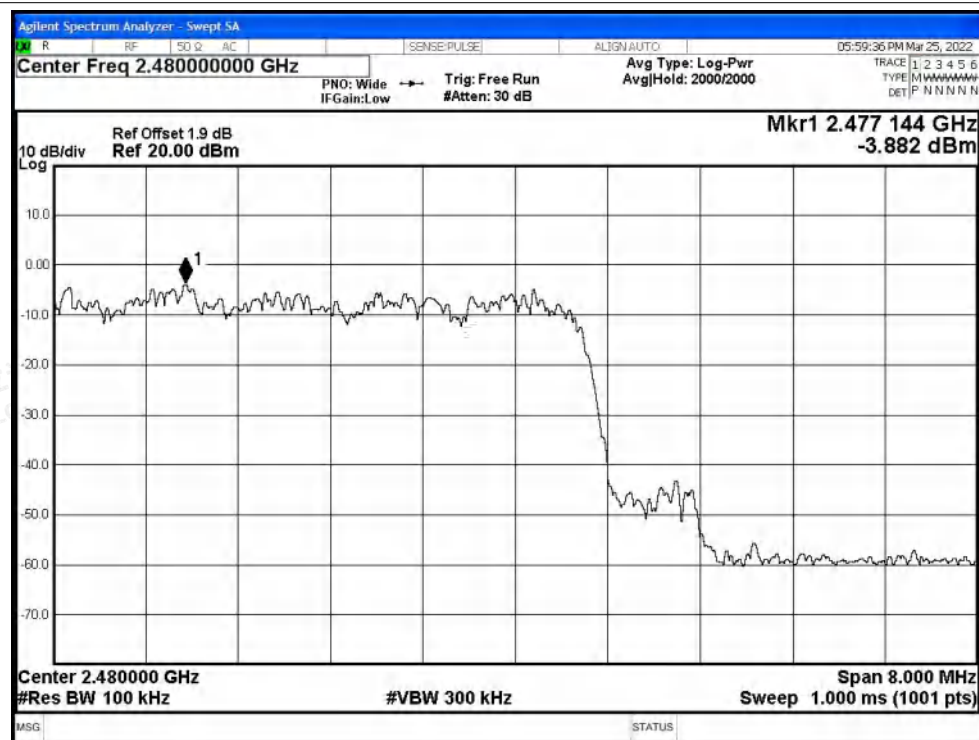
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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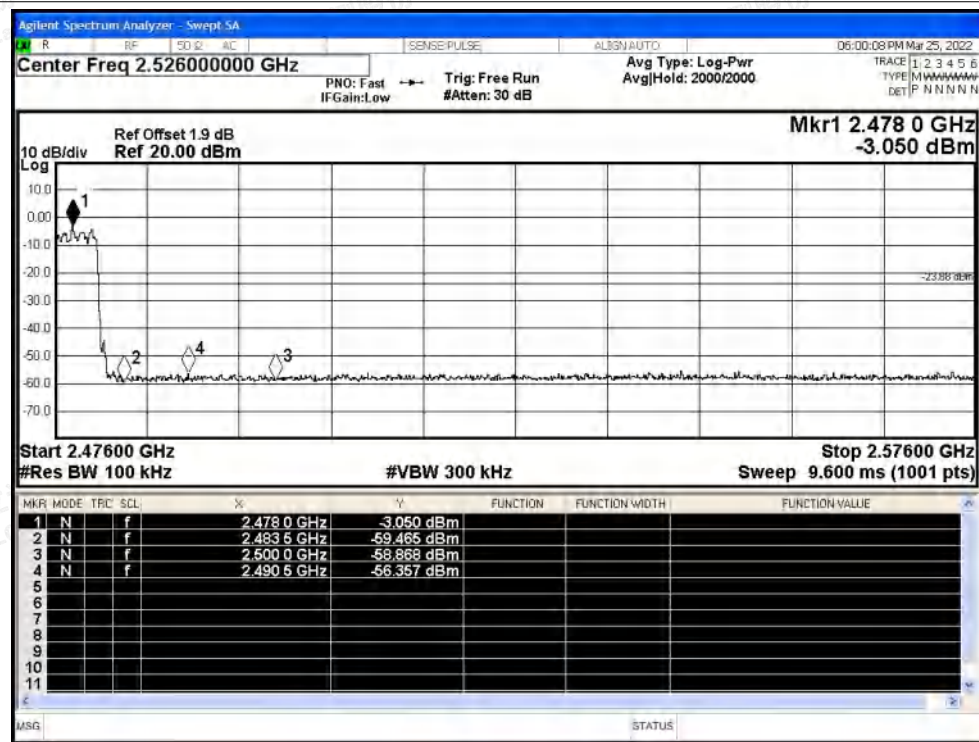


LCS 004AEA

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



Band Edge(Hopping) NVNT 3-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	-51.72	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.15	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.88	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.88	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.79	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.21	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.3	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.28	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.01	-20	Pass

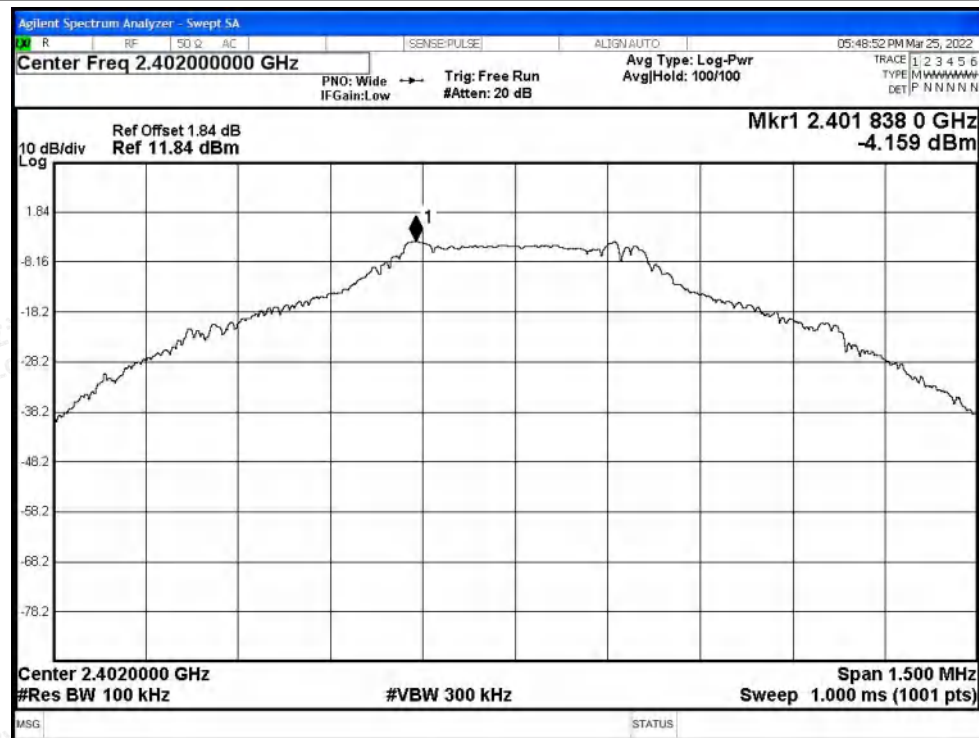




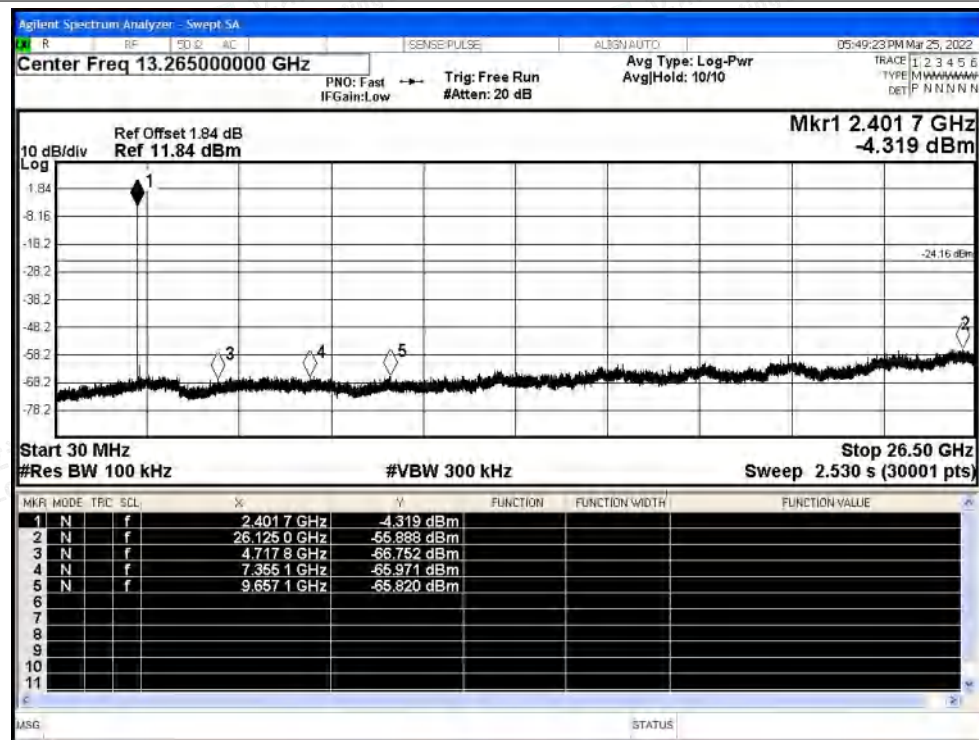
LCS 004AEA

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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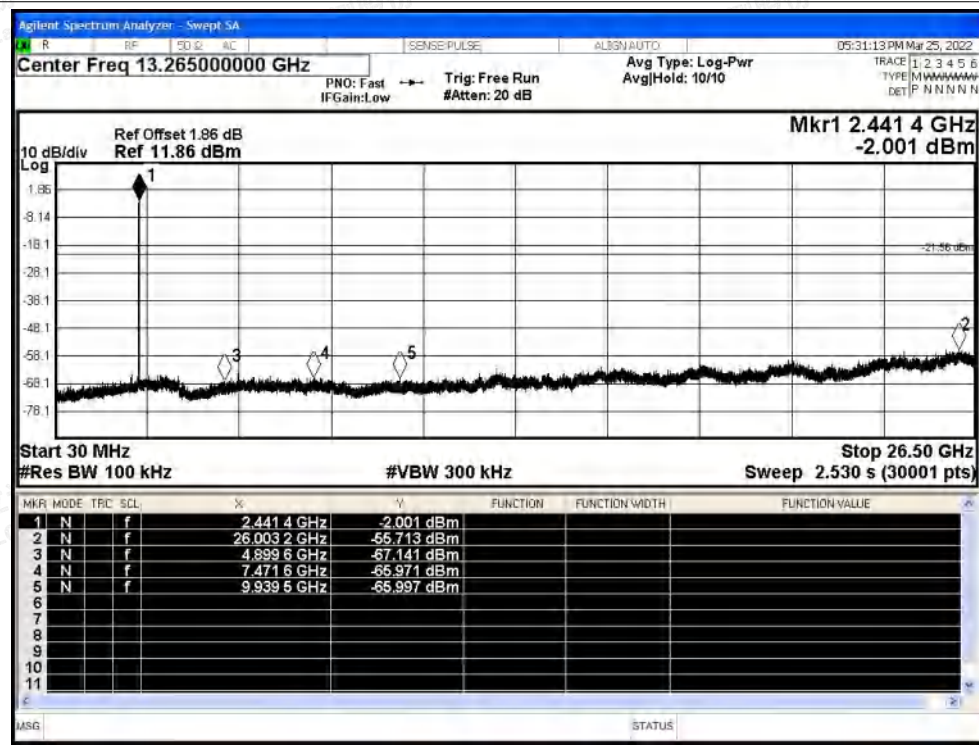
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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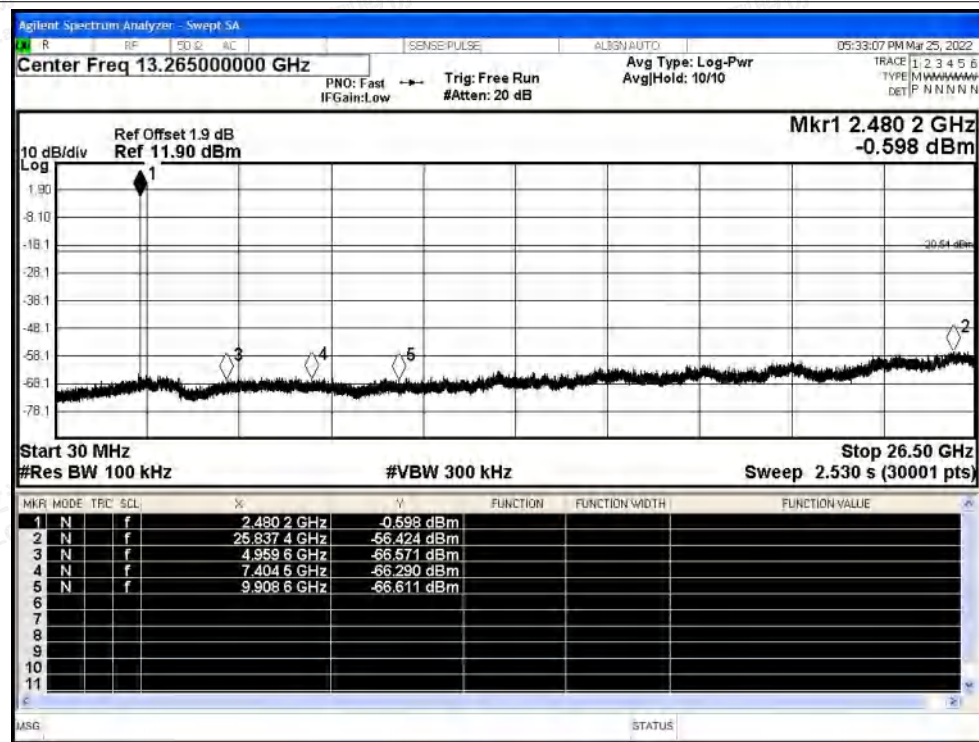


LCS-2023-004AEA

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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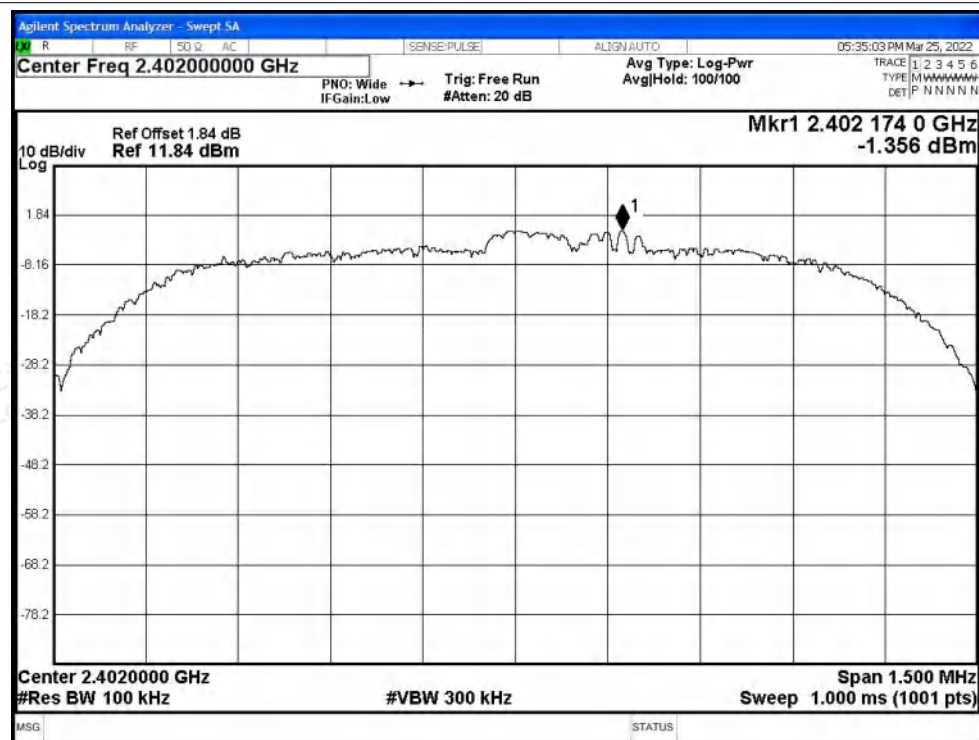
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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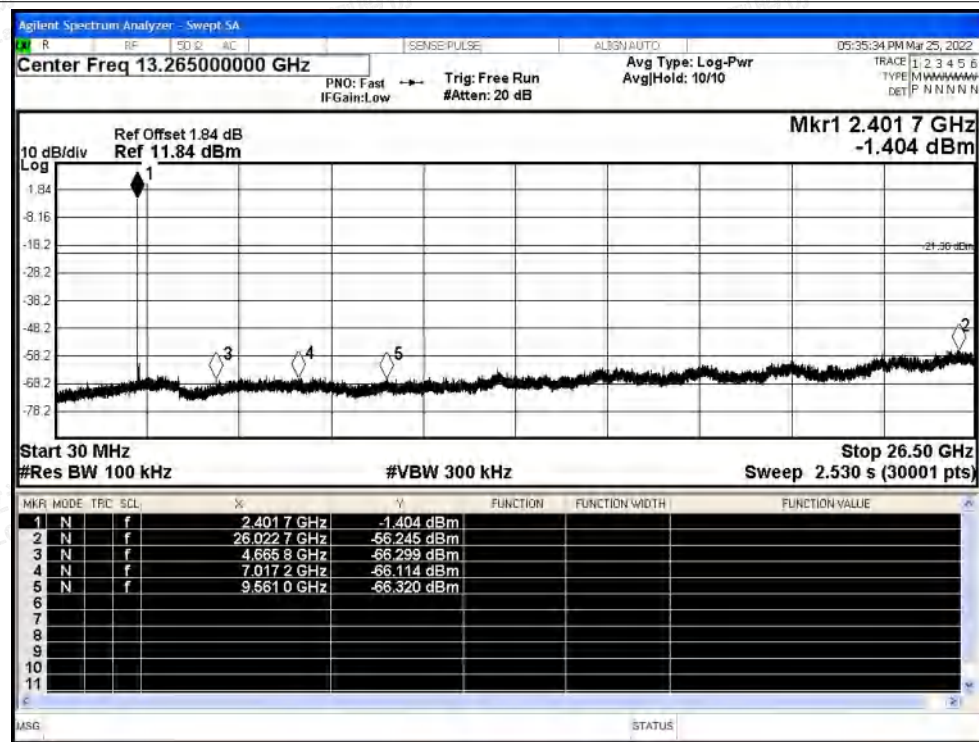


LCS-2023-004AEA

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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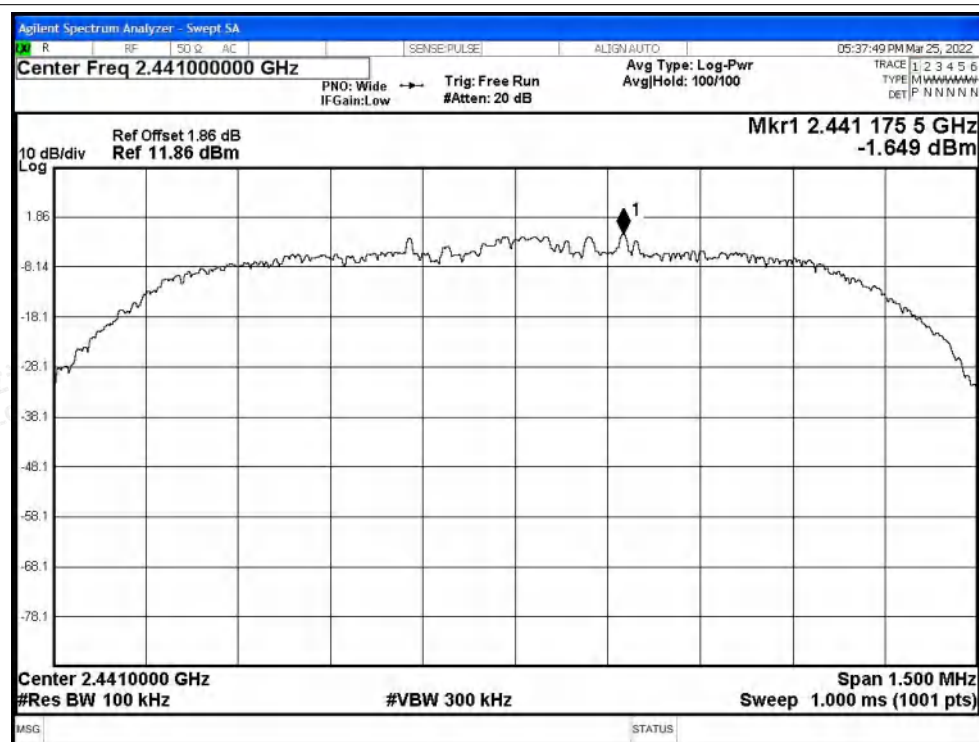
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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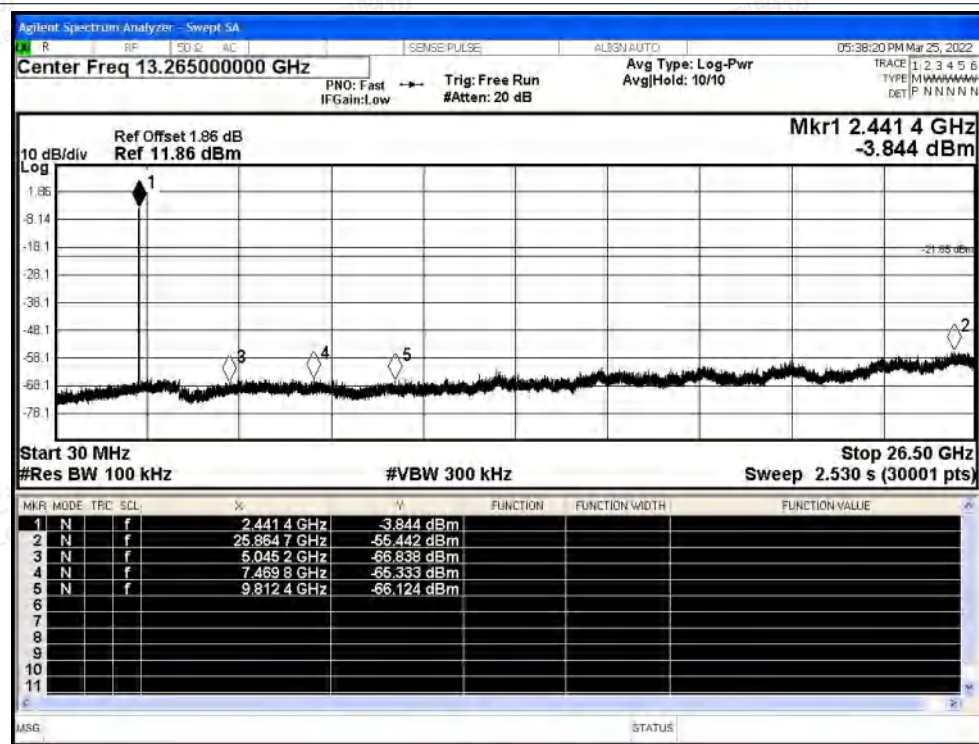


LCS-2023-004AEA

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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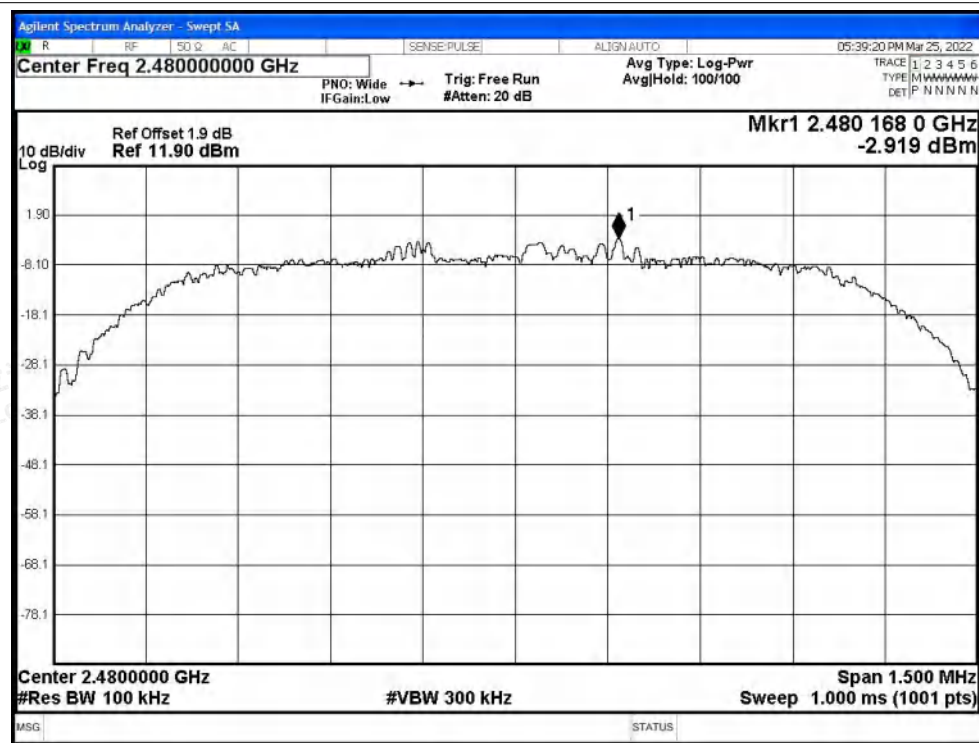
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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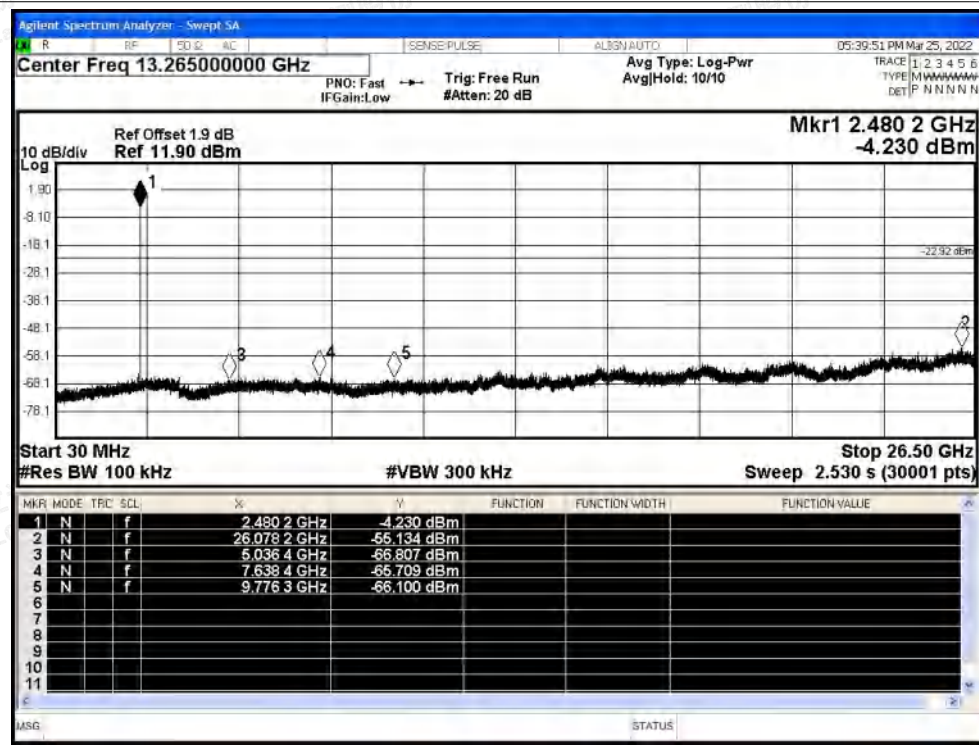


LCS-2023-004AEA

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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

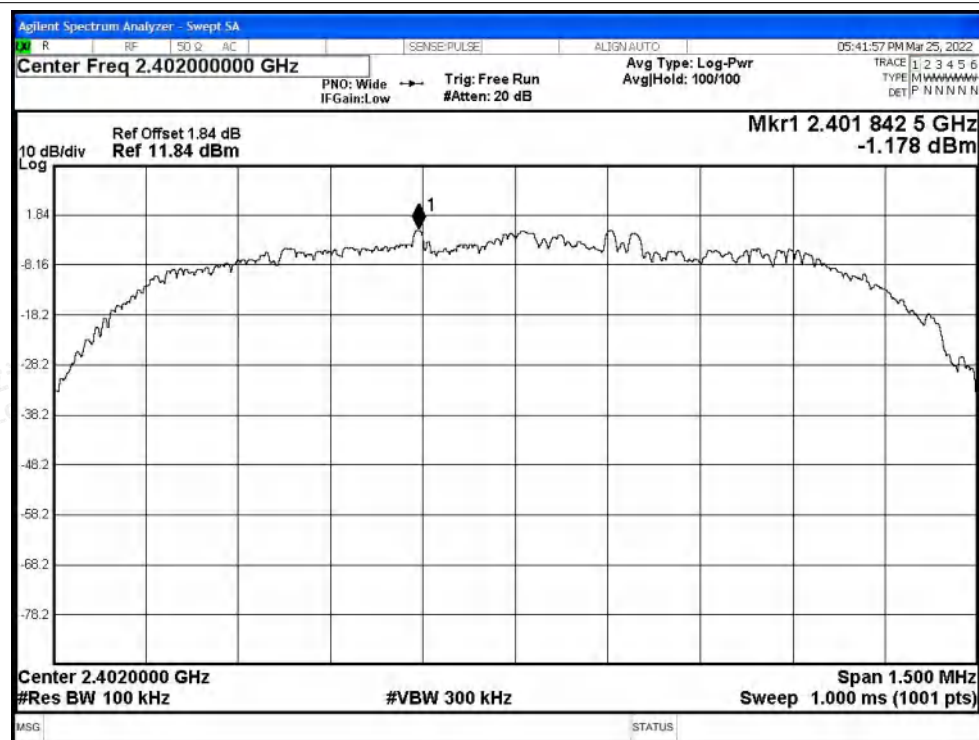
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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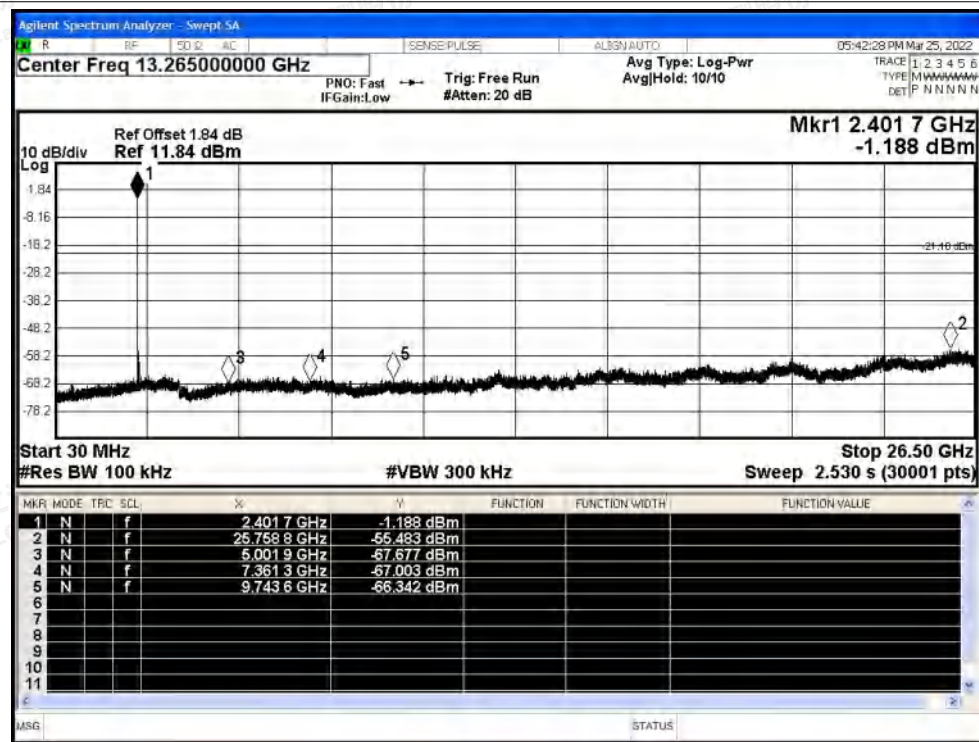


LCS 004AEA

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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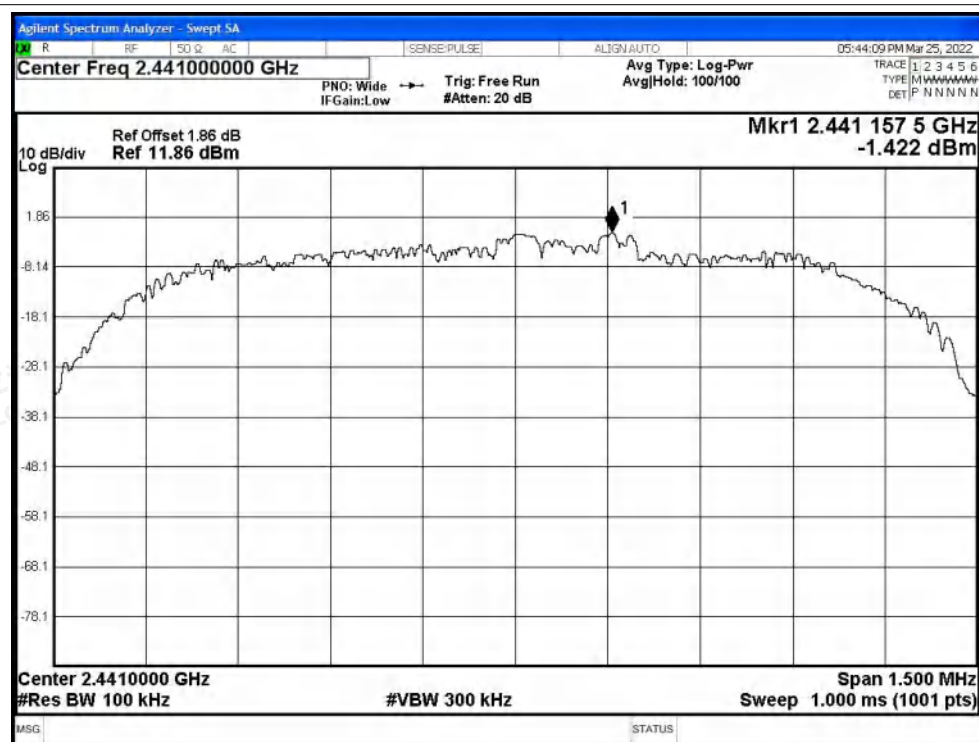
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

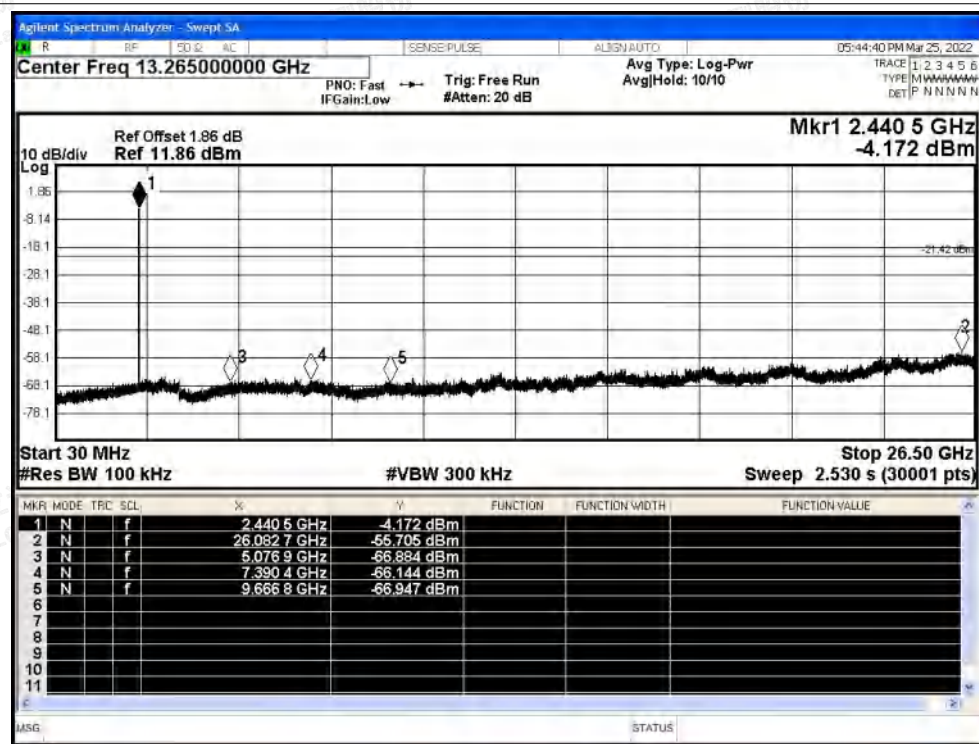


LCS-2023-004AEA

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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

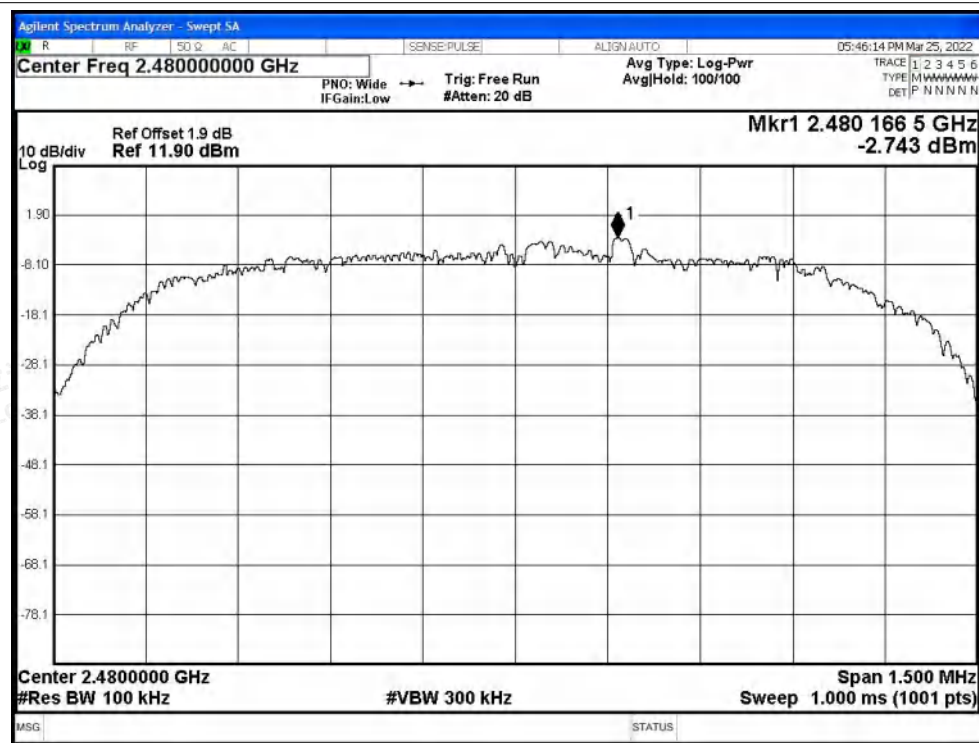
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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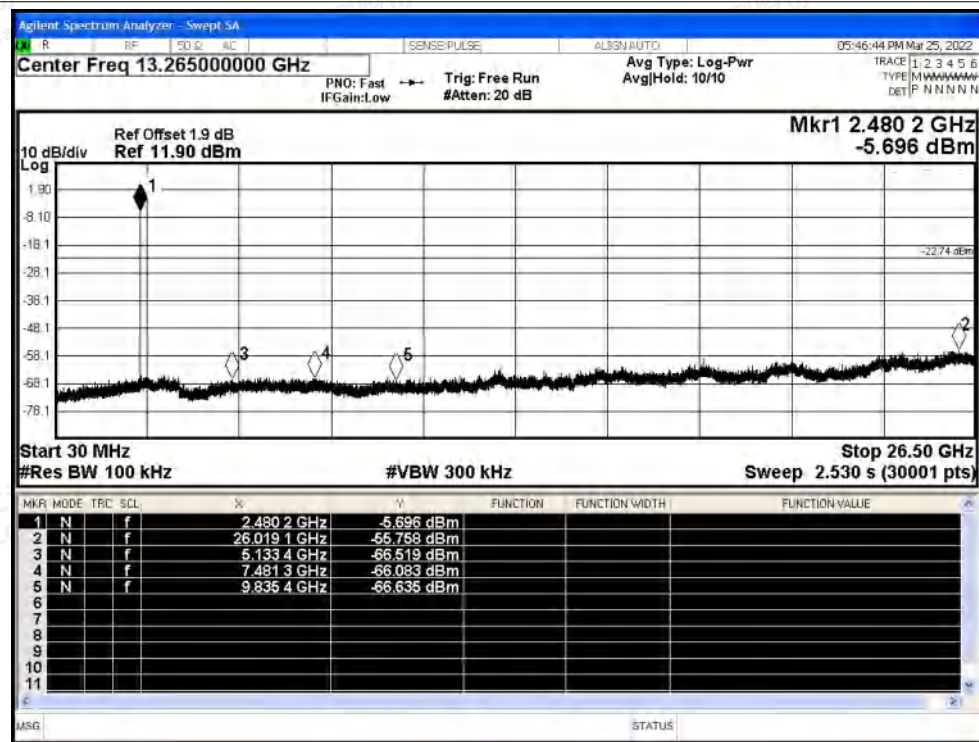


LCS 004AEA

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.52	2	45.74	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.57	2	36.69	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2373.882	-48.03	2	49.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.92	-60.12	2	37.14	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.6	2	46.66	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.26	2	37	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.03	2	47.23	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.63	2	37.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2494.5	-47.31	2	49.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.918	-59.53	2	37.73	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.38	2	46.88	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.01	2	37.25	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.4	2	45.86	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.67	2	36.59	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2329.998	-48.16	2	49.1	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.5	-60.14	2	37.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.84	2	46.42	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.32	2	36.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.05	2	47.21	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.88	2	37.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.214	-46.74	2	50.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.918	-59.74	2	37.52	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.3	2	45.96	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.05	2	37.21	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.52	2	45.74	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.66	2	36.6	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2355.438	-47.16	2	50.1	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2383.21	-60.21	2	37.05	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.24	2	46.02	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.33	2	36.93	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.39	2	47.87	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.86	2	37.4	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.322	-48.02	2	49.24	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.992	-59.71	2	37.55	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.56	2	46.7	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.99	2	37.27	Average	54	Pass

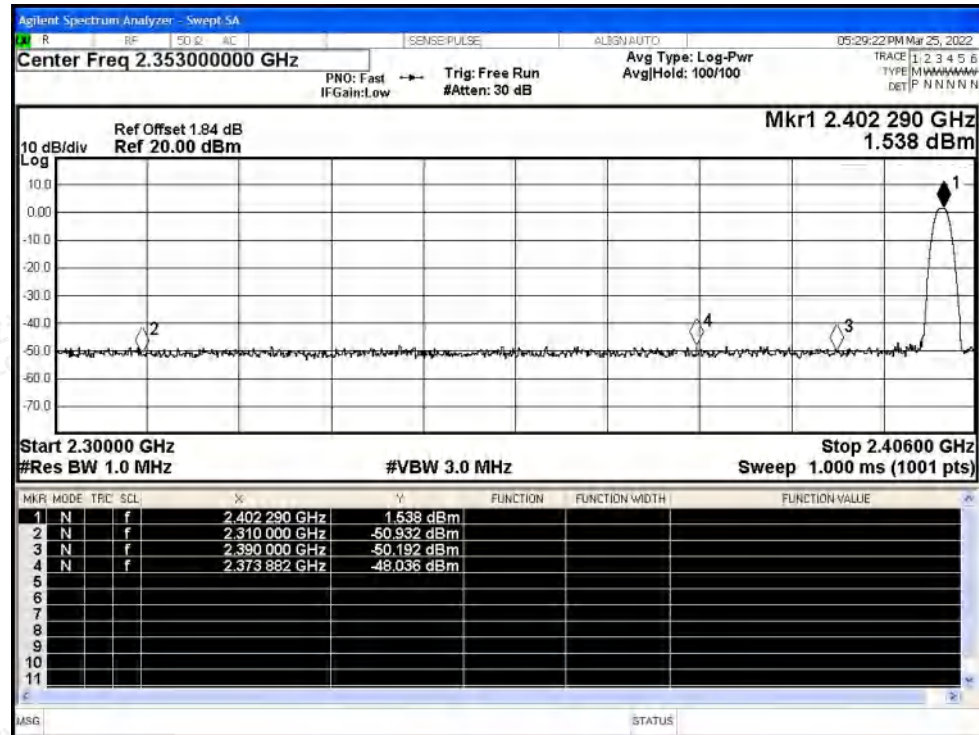




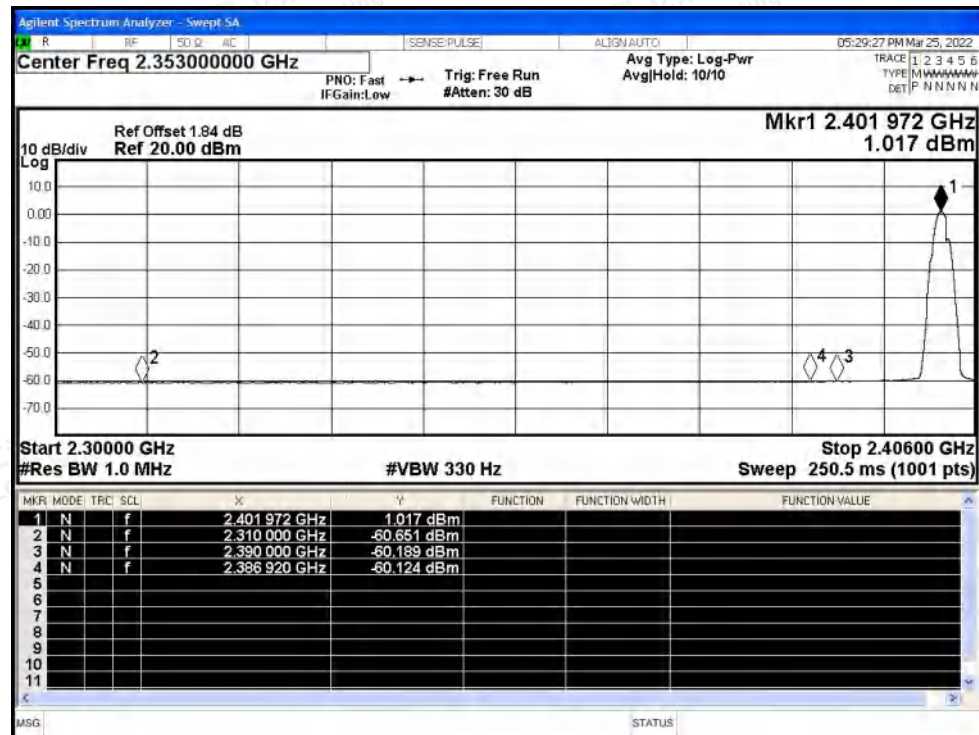
LCS-2023-004AEA

Test Graphs

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



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



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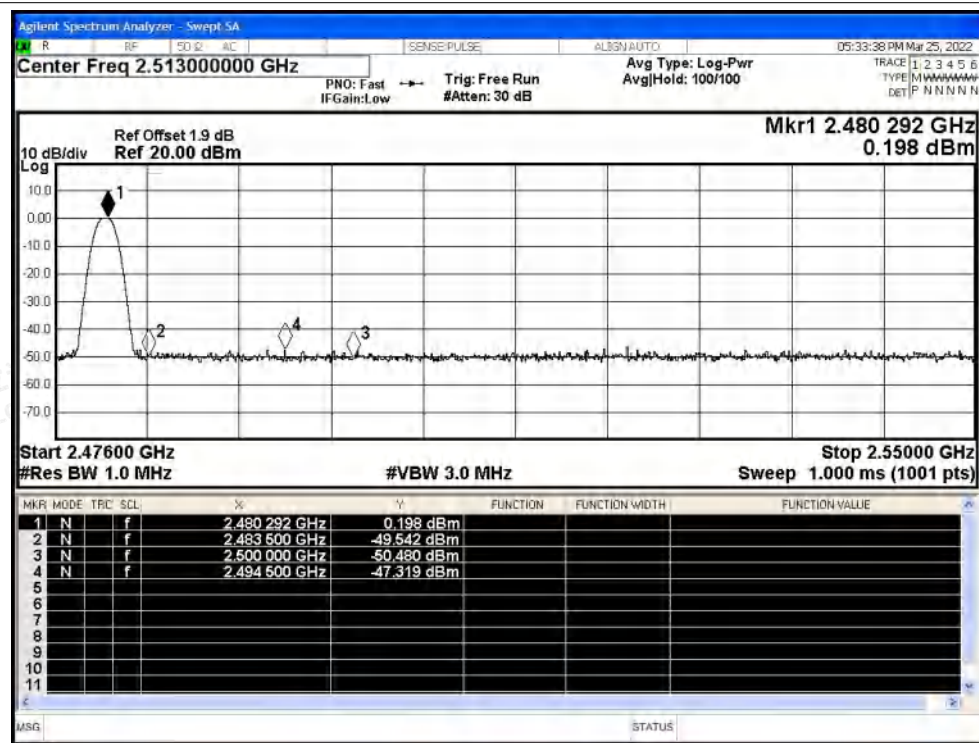
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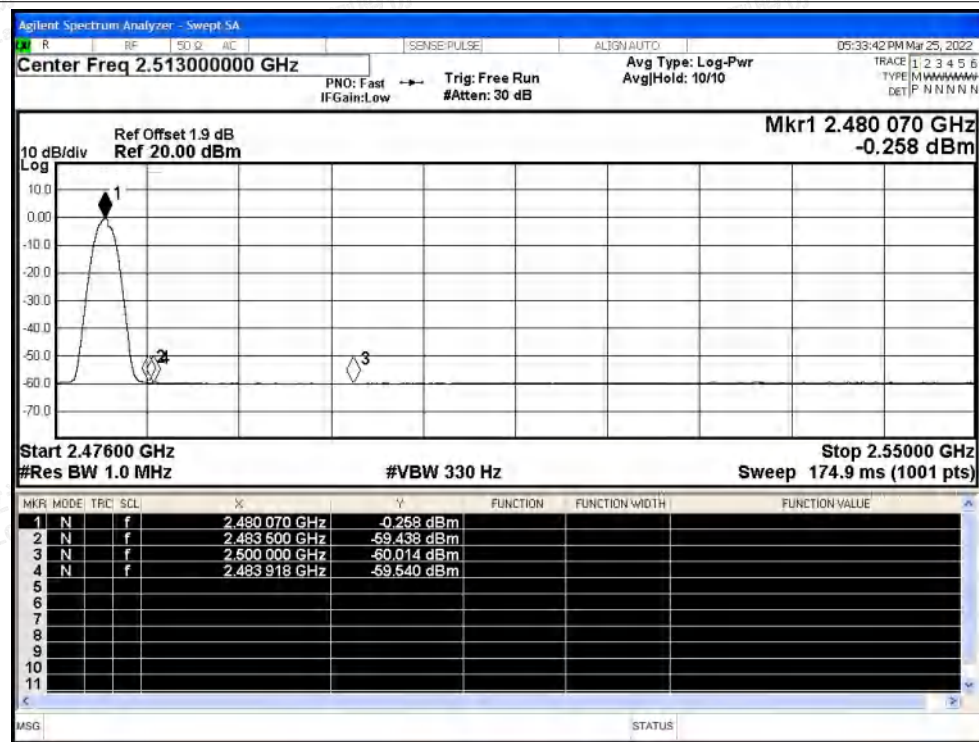


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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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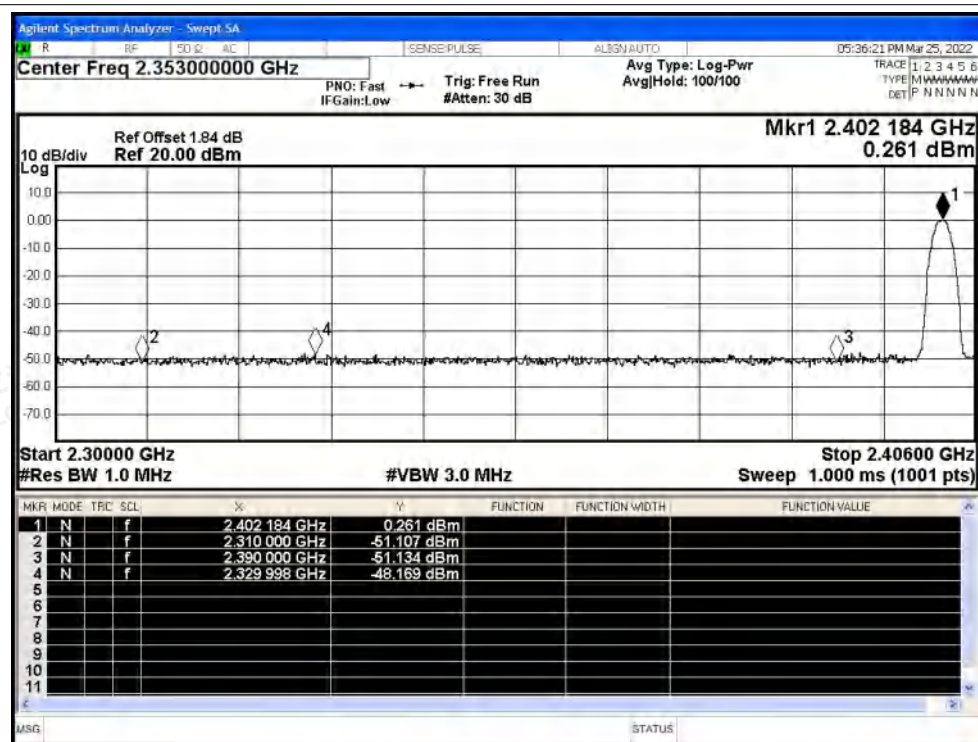
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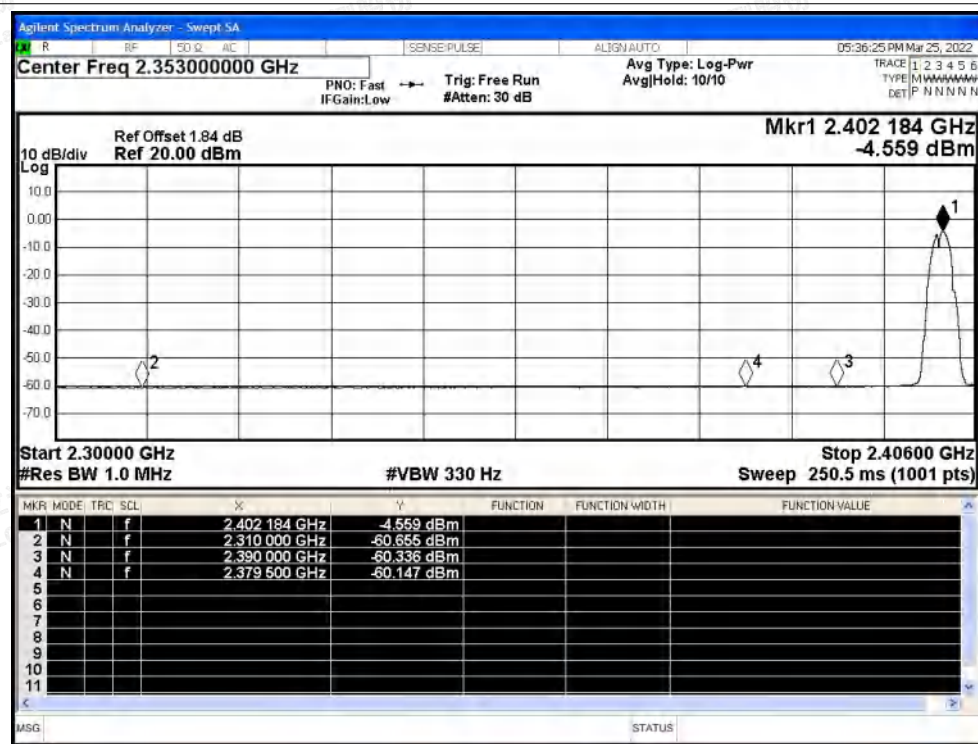


LCS-2023-004AEA

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



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



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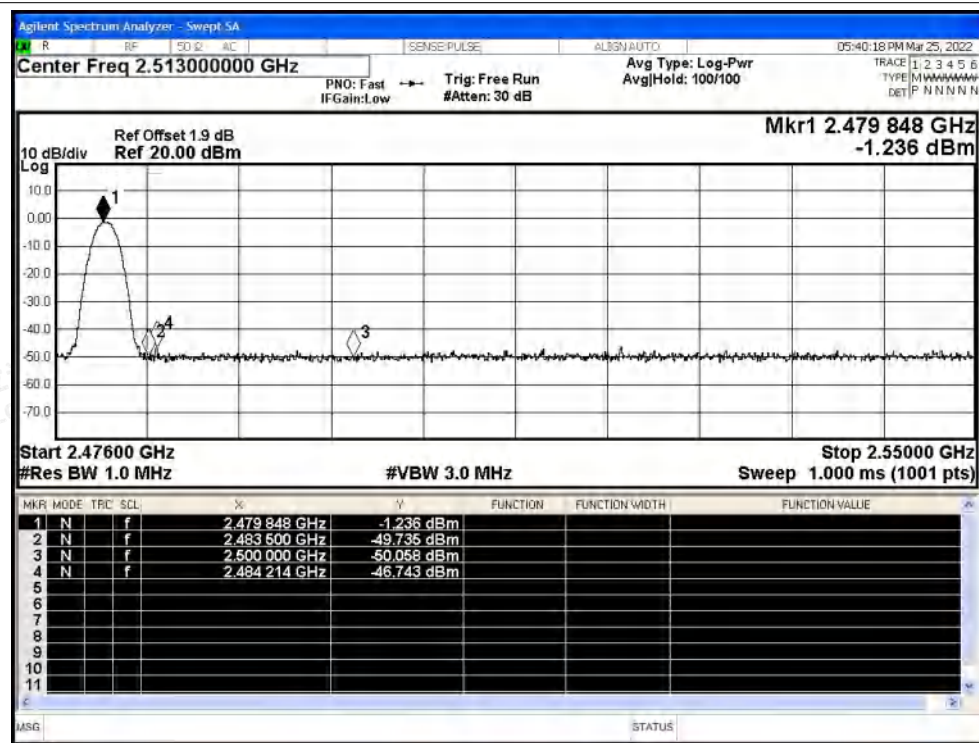
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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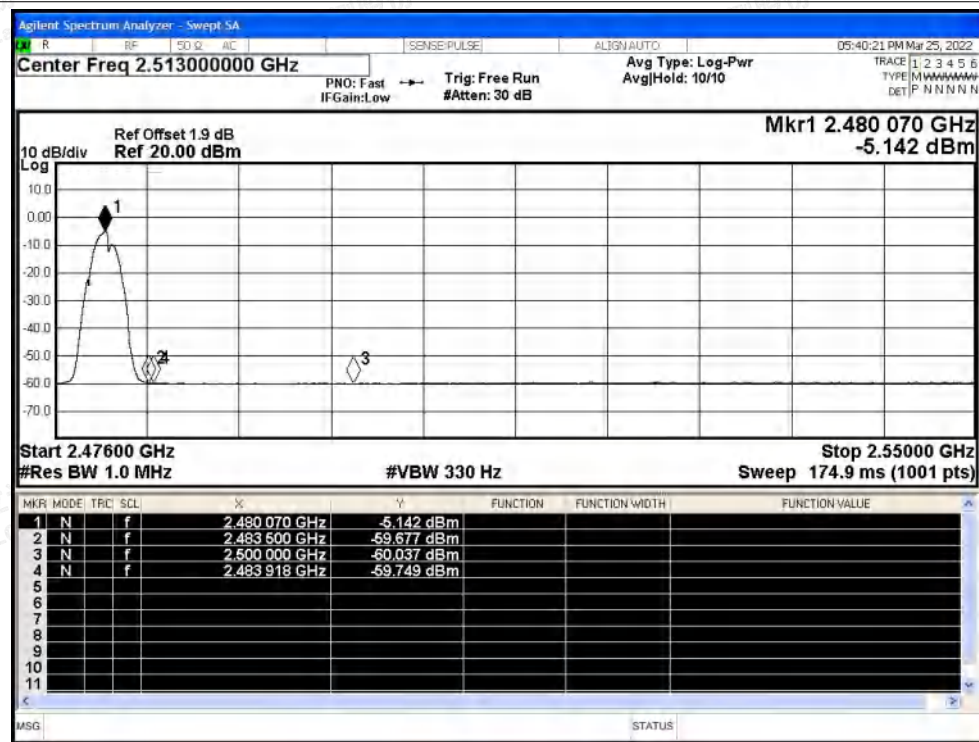


LCS-2023-004AEA

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



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



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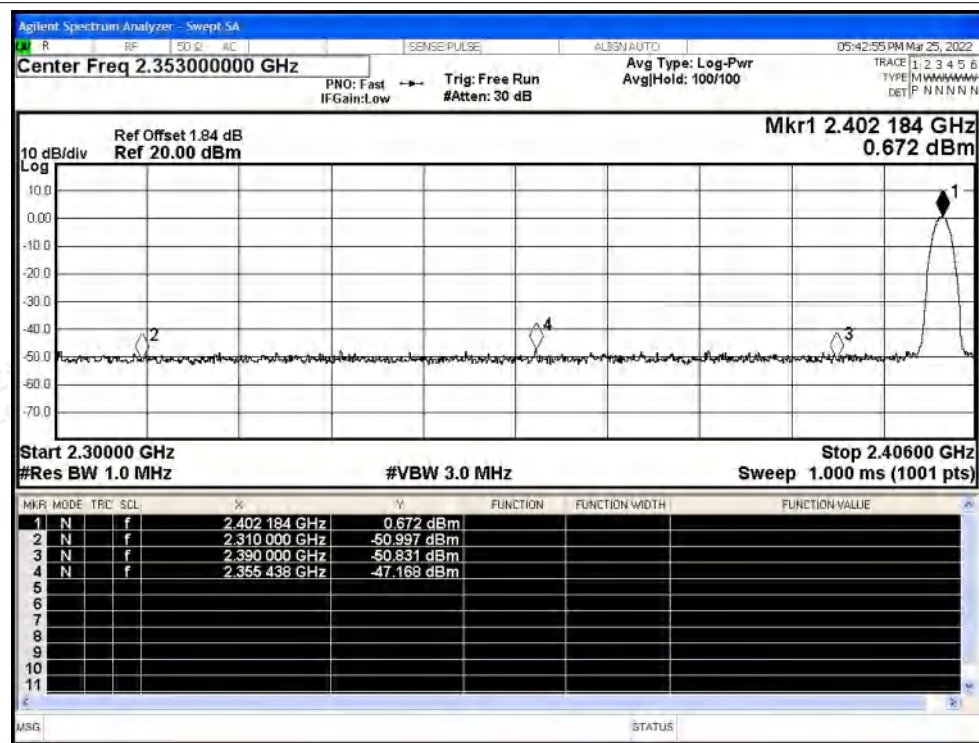
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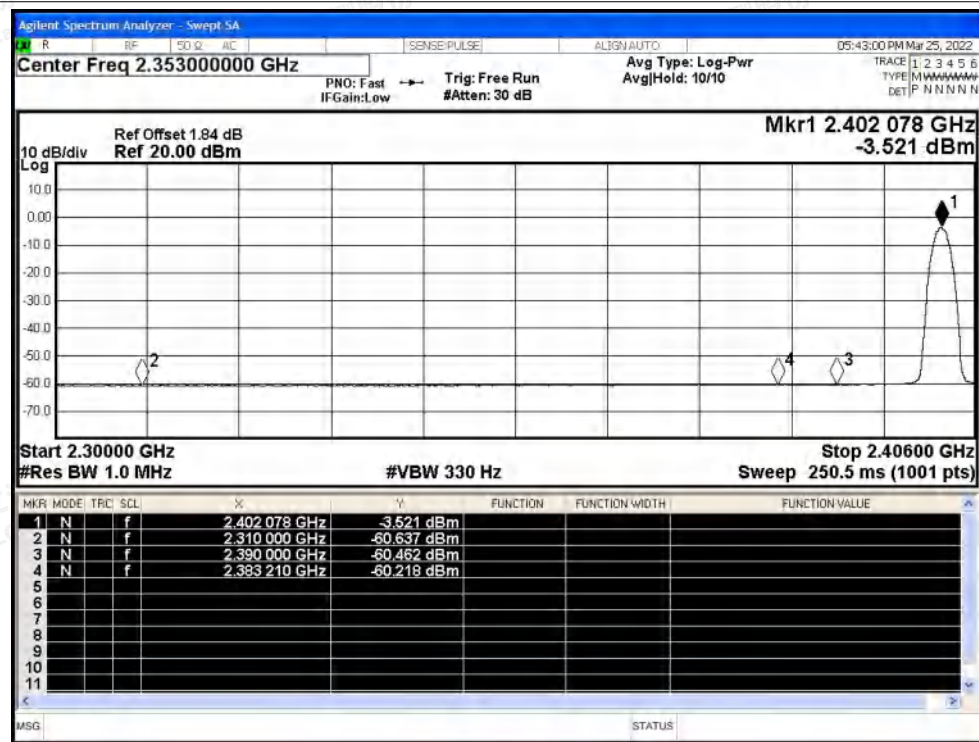


LCS-2023-004AEA

Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



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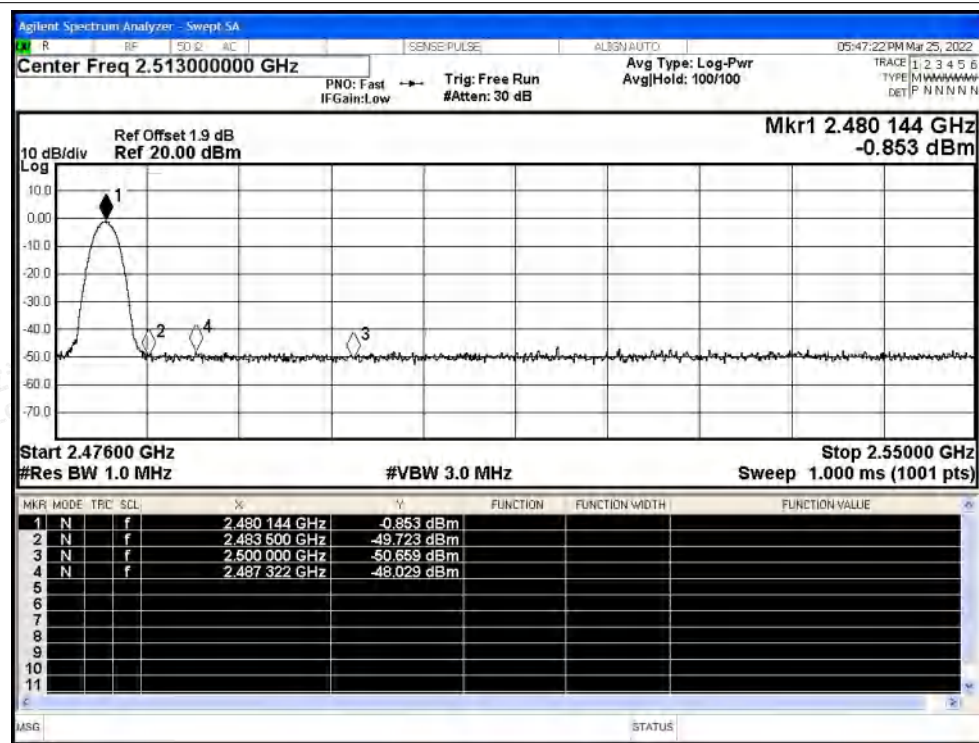
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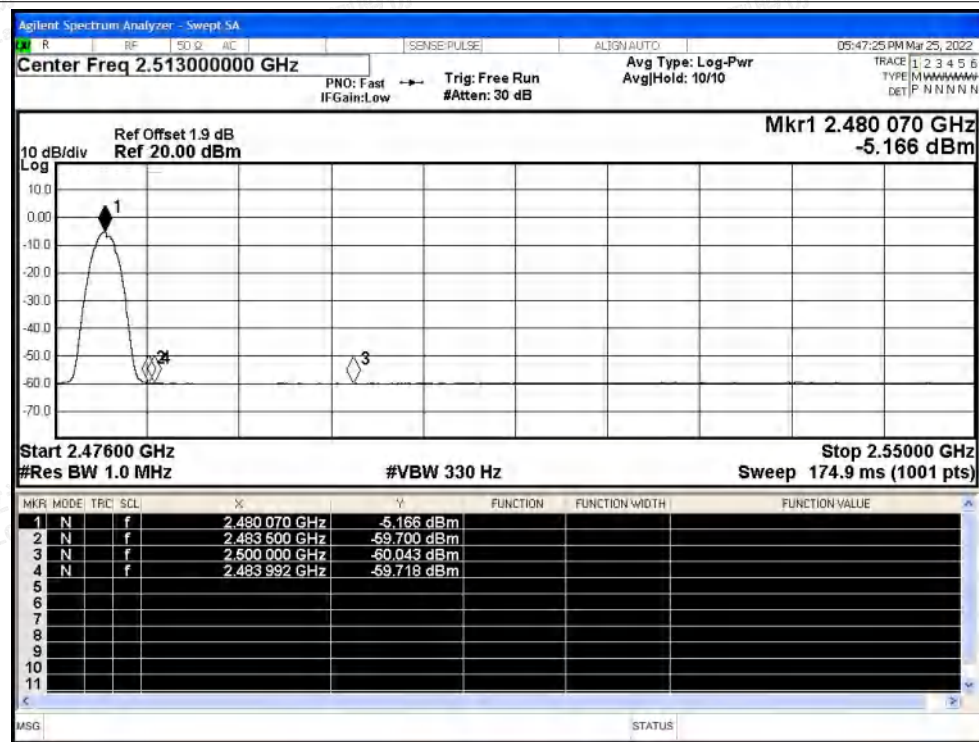


LCS-2023-004AEA

Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average



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