



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Laptop

Test Model: HPPLP11

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu



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A.1 20dB Emission Bandwidth

Test Result

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.954	0	Pass
NVNT	1-DH5	2441	Ant1	0.95	0	Pass
NVNT	1-DH5	2480	Ant1	0.95	0	Pass
NVNT	2-DH5	2402	Ant1	1.509	0	Pass
NVNT	2-DH5	2441	Ant1	1.511	0	Pass
NVNT	2-DH5	2480	Ant1	1.489	0	Pass
NVNT	3-DH5	2402	Ant1	1.478	0	Pass
NVNT	3-DH5	2441	Ant1	1.463	0	Pass
NVNT	3-DH5	2480	Ant1	1.484	0	Pass

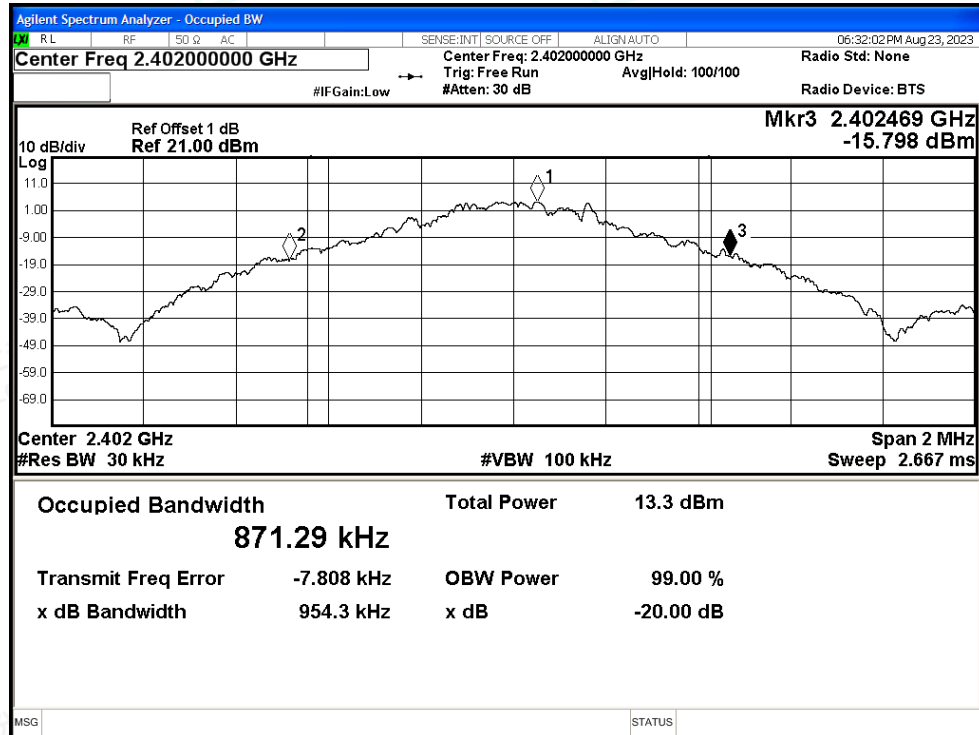


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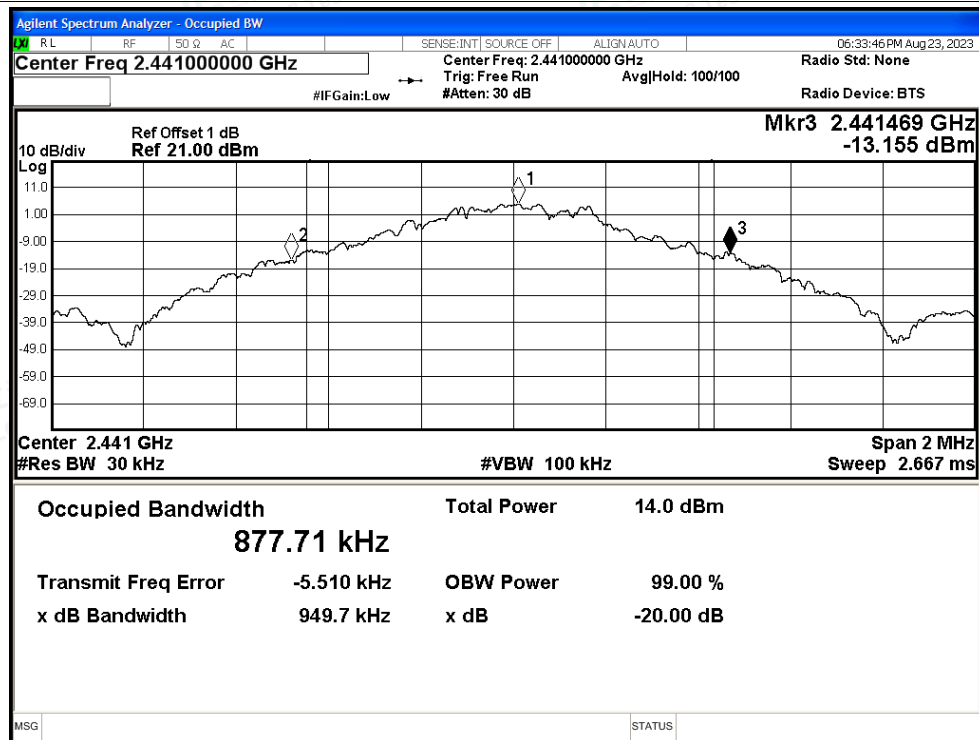


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

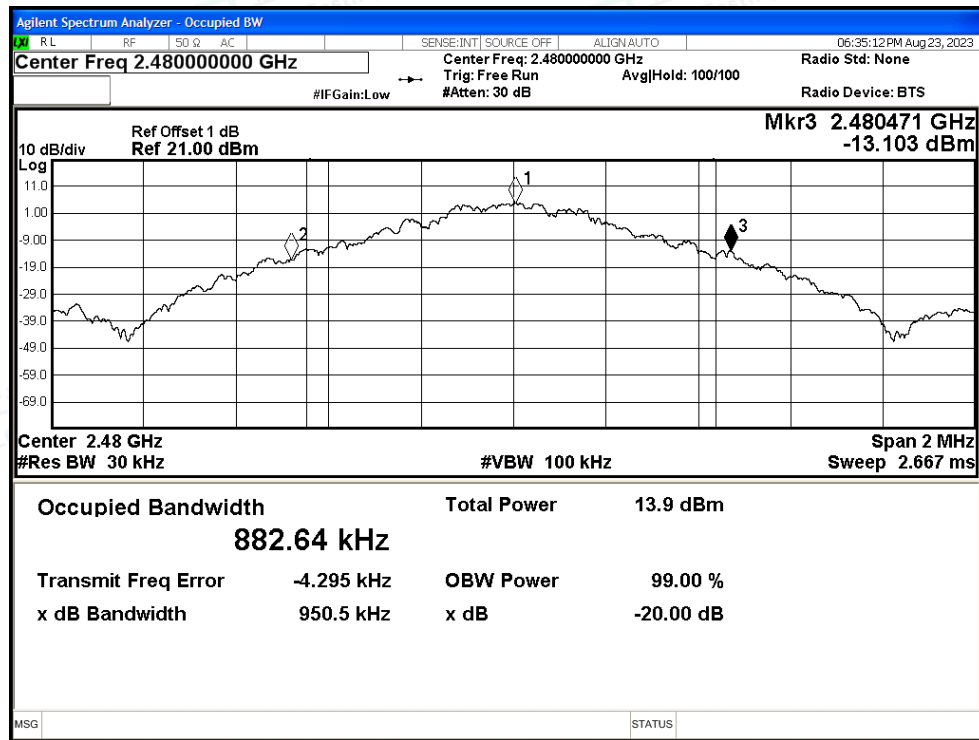


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

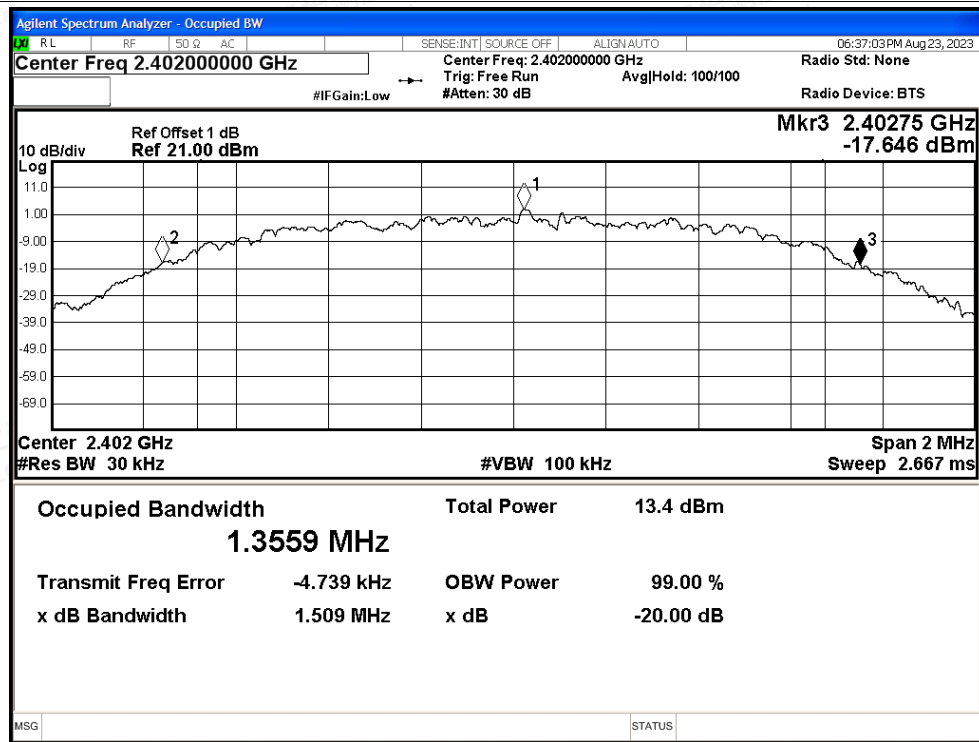




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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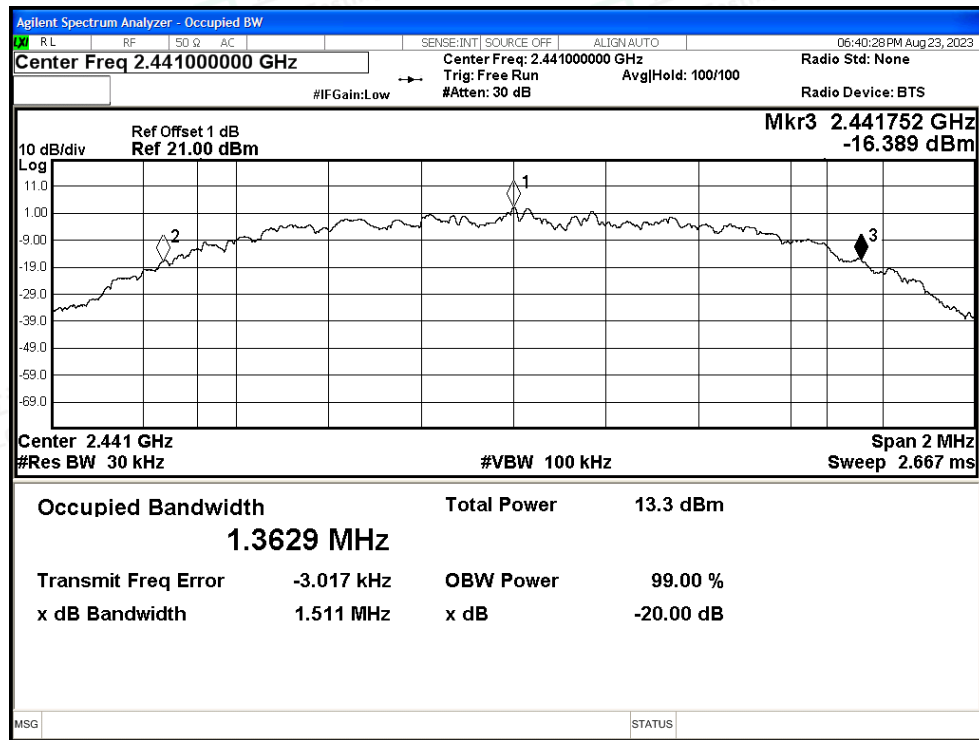
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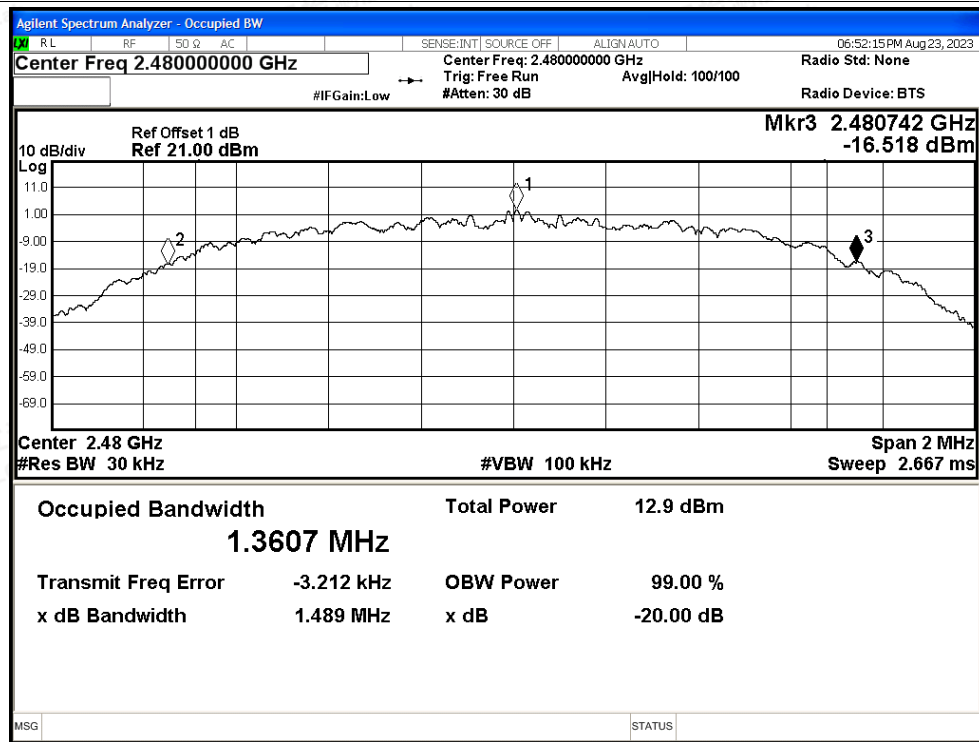
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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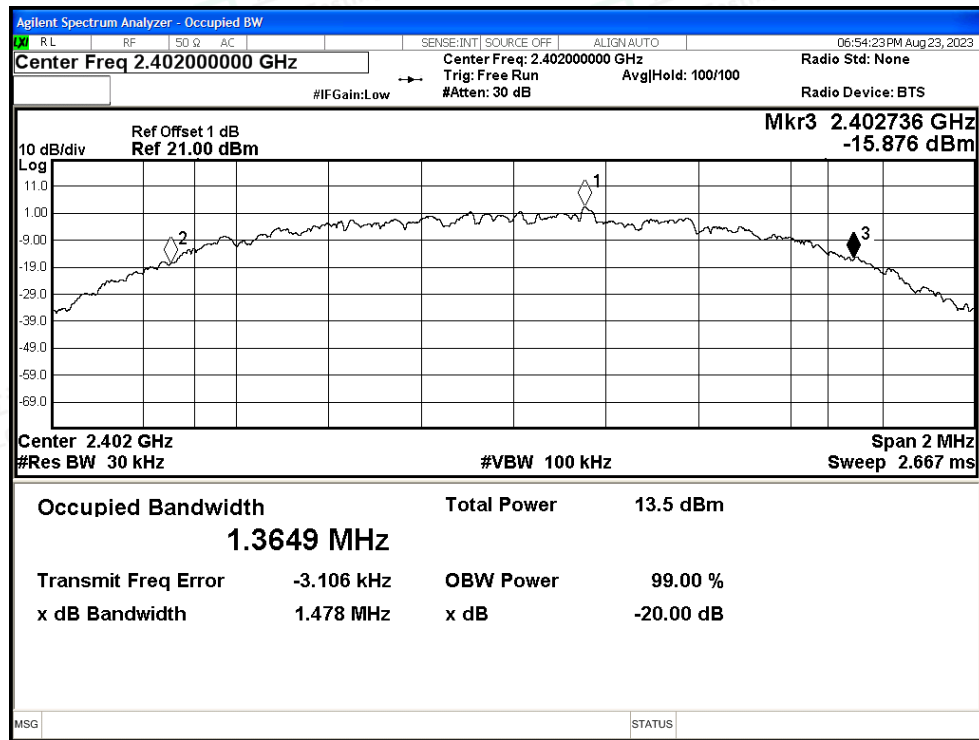
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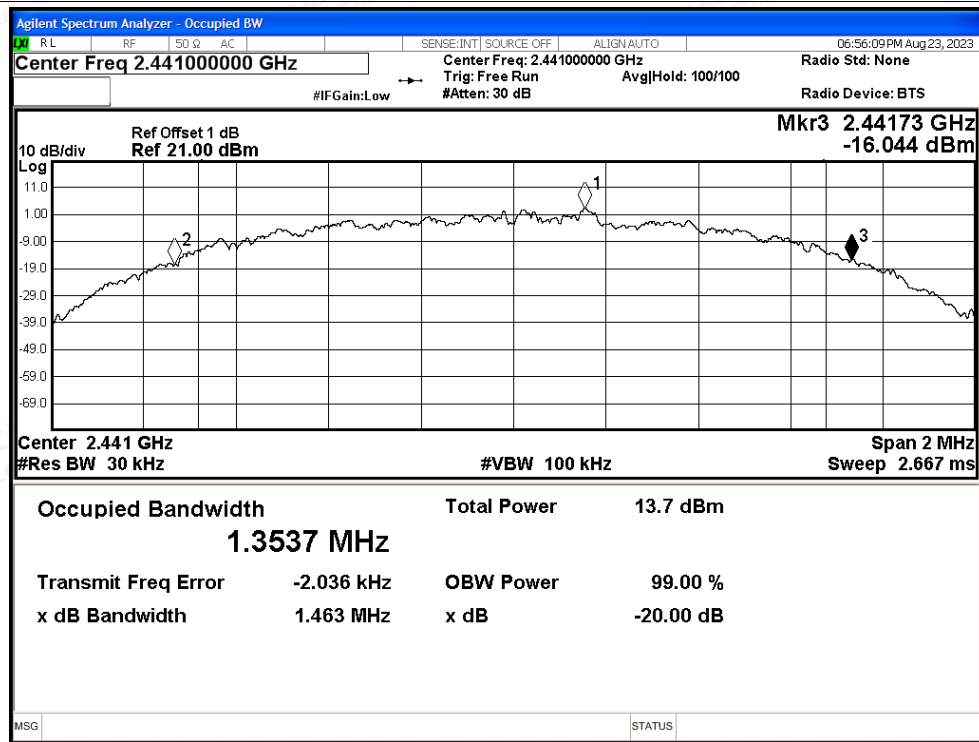
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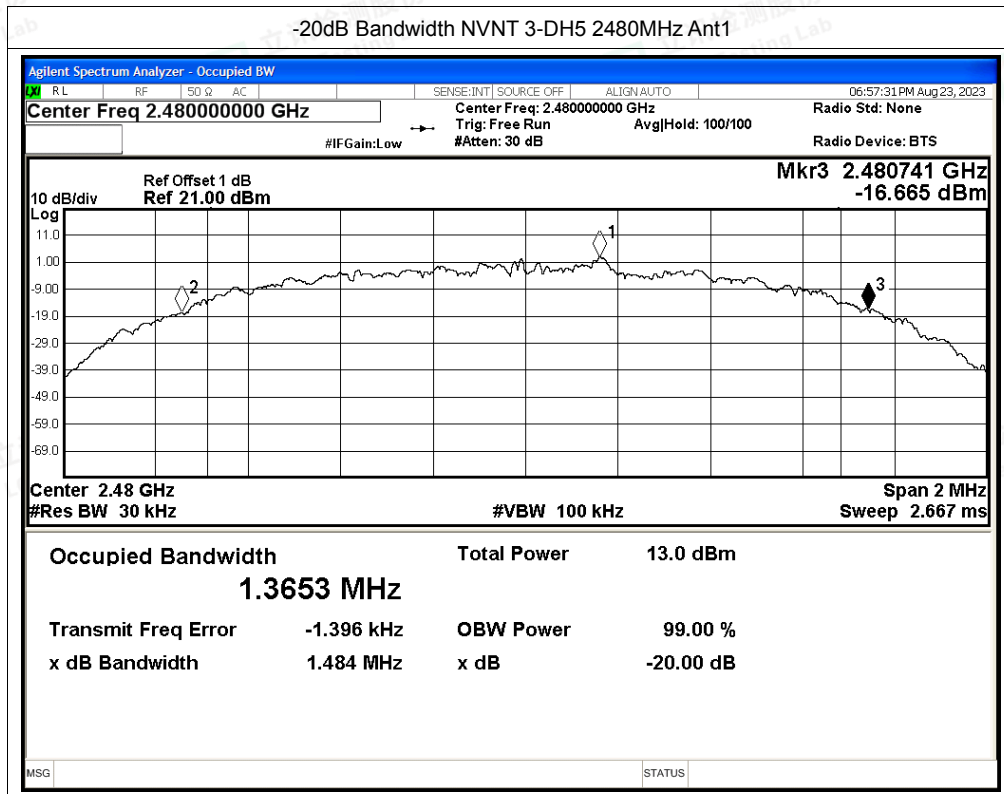


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





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A.2 Maximum conducted output power

Test Result

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	6.97	21	Pass
NVNT	1-DH5	2441	Ant1	7.54	21	Pass
NVNT	1-DH5	2480	Ant1	7.51	21	Pass
NVNT	2-DH5	2402	Ant1	8.16	21	Pass
NVNT	2-DH5	2441	Ant1	8.28	21	Pass
NVNT	2-DH5	2480	Ant1	7.84	21	Pass
NVNT	3-DH5	2402	Ant1	8.27	21	Pass
NVNT	3-DH5	2441	Ant1	8.42	21	Pass
NVNT	3-DH5	2480	Ant1	7.99	21	Pass

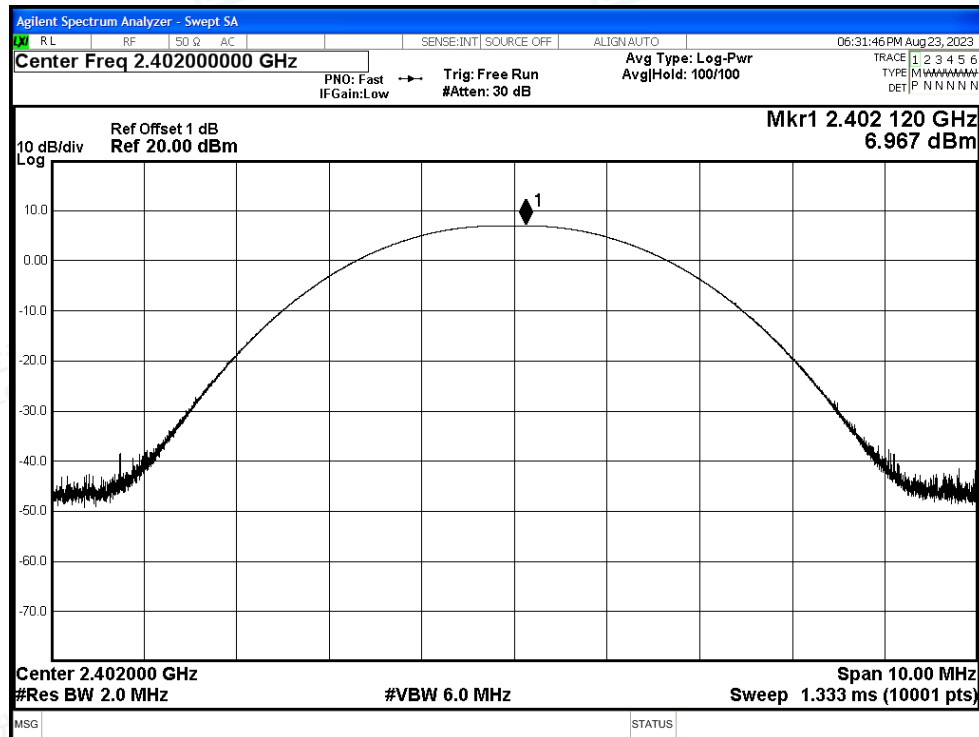


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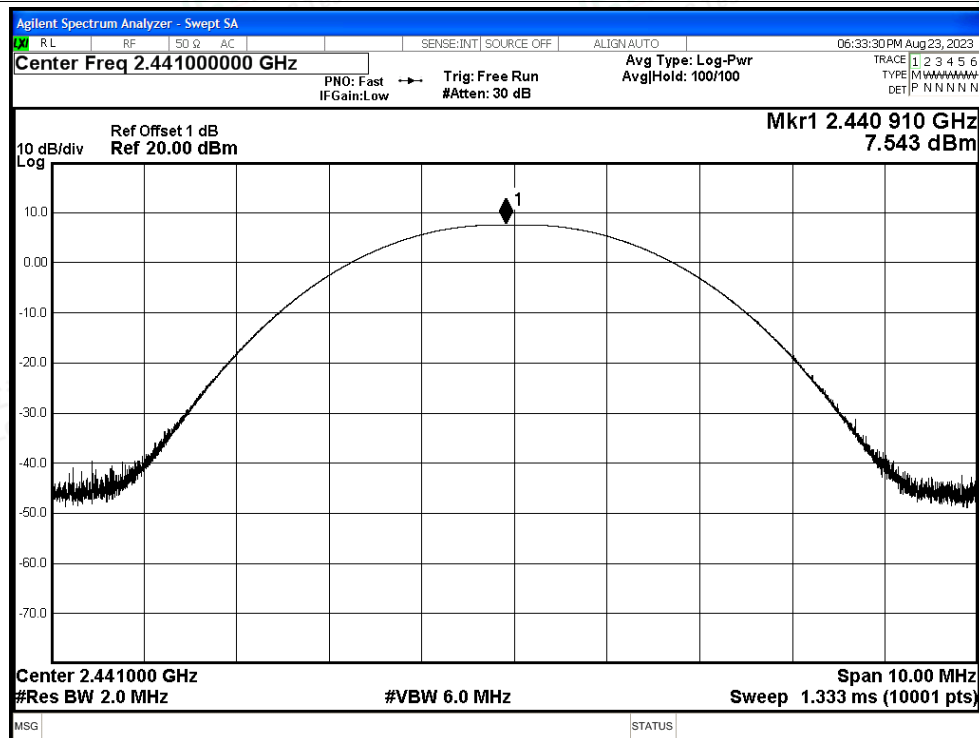


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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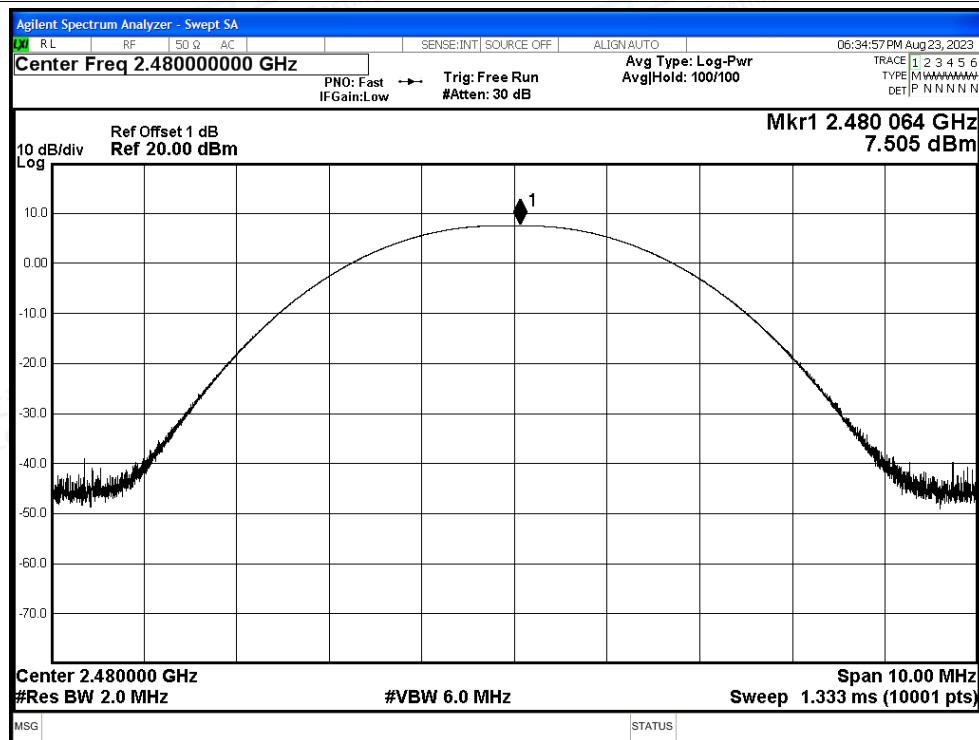
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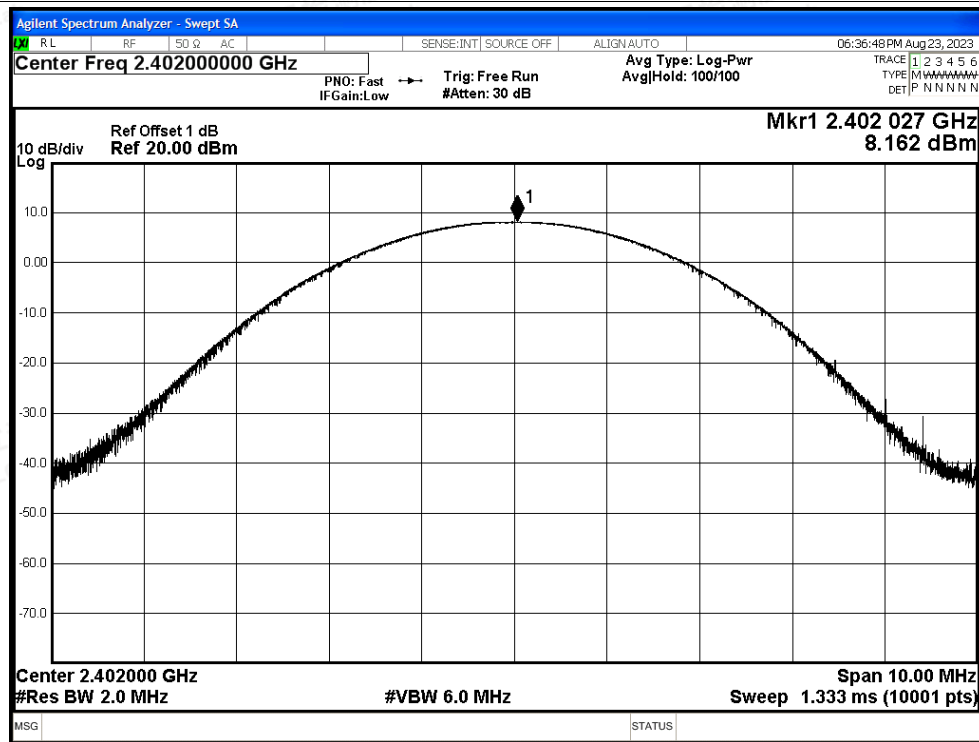
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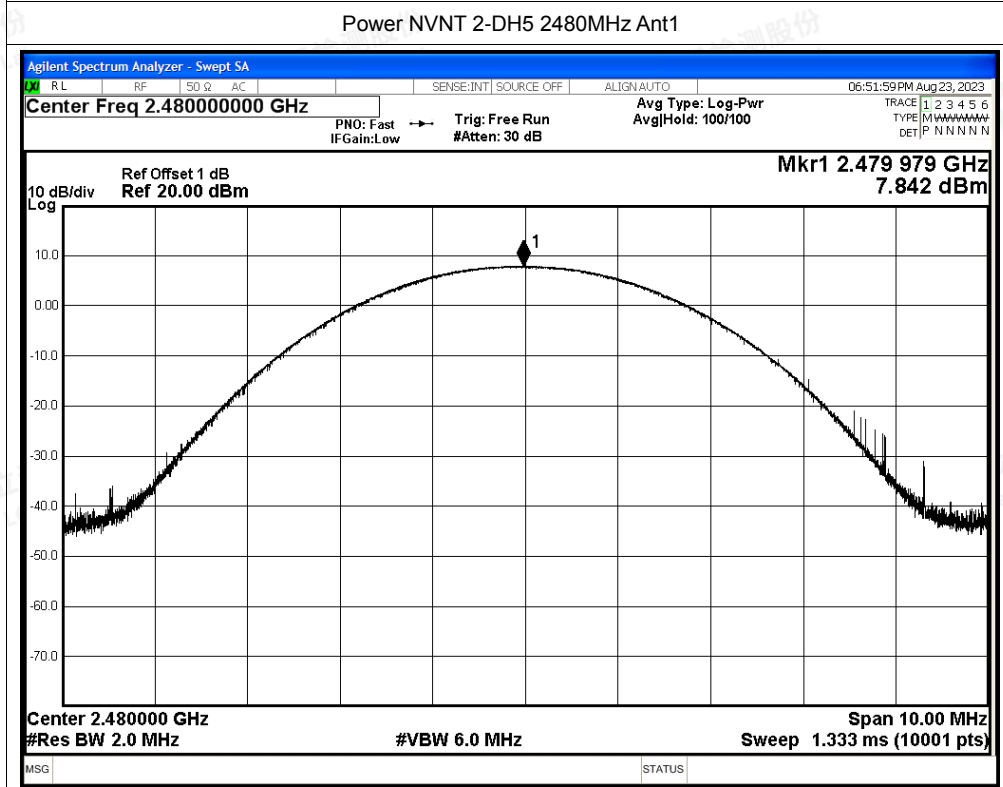
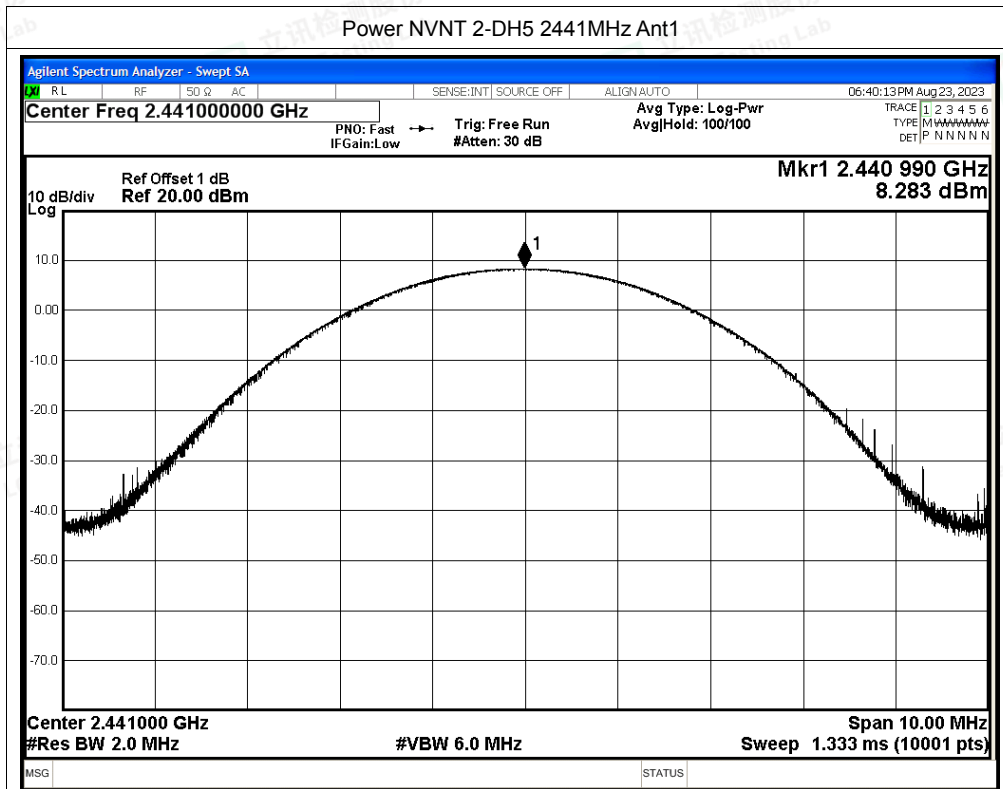


Power NVNT 1-DH5 2480MHz Ant1



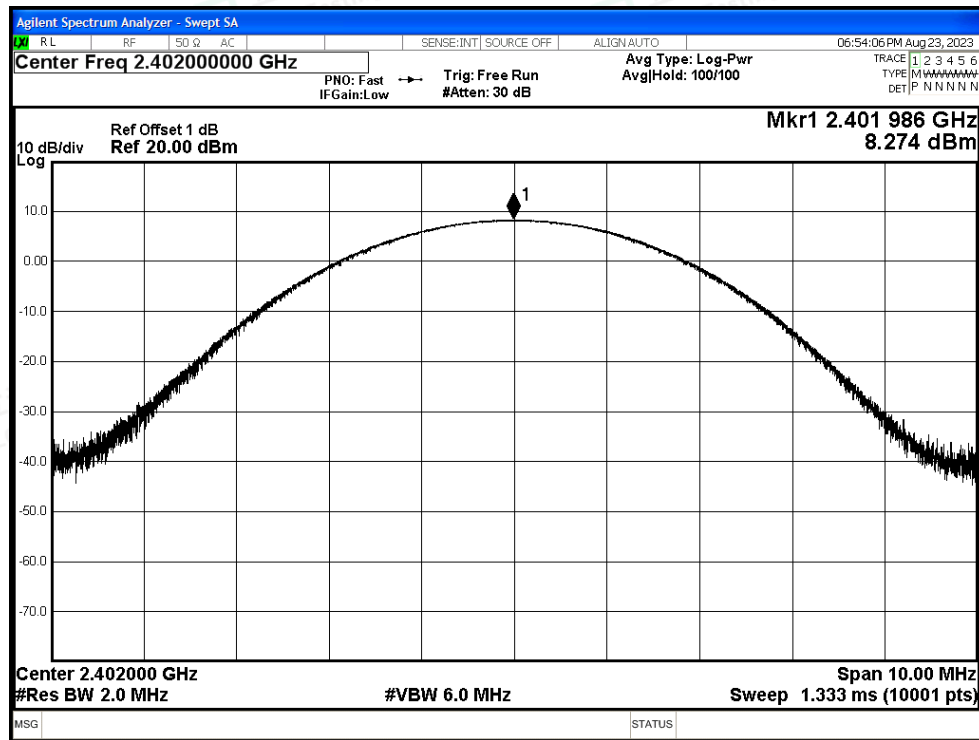
Power NVNT 2-DH5 2402MHz Ant1



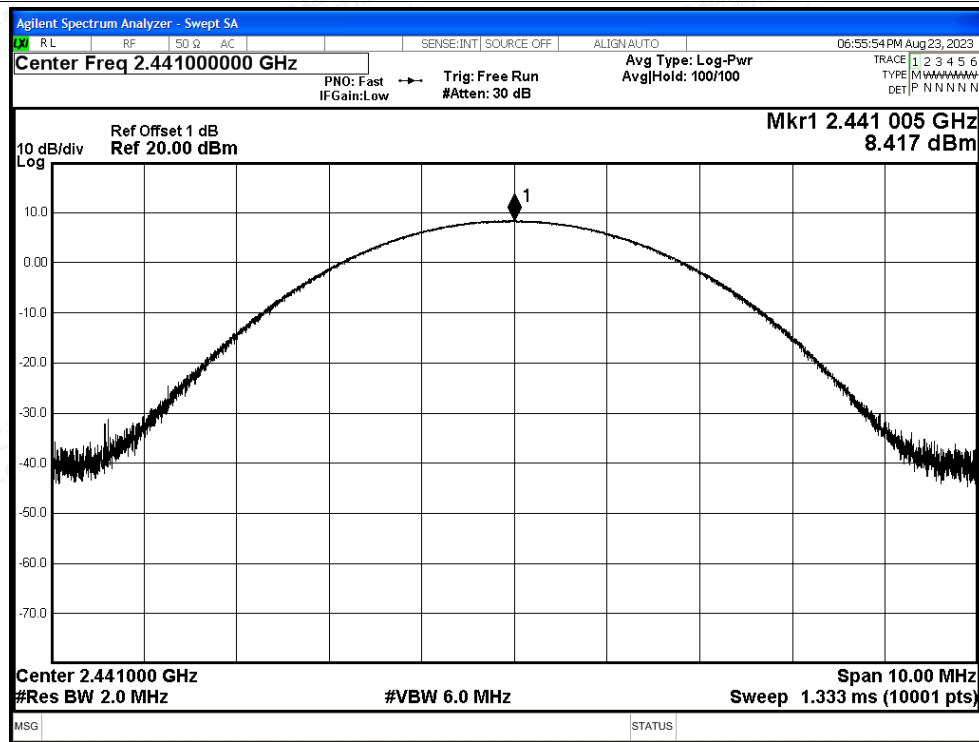




Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

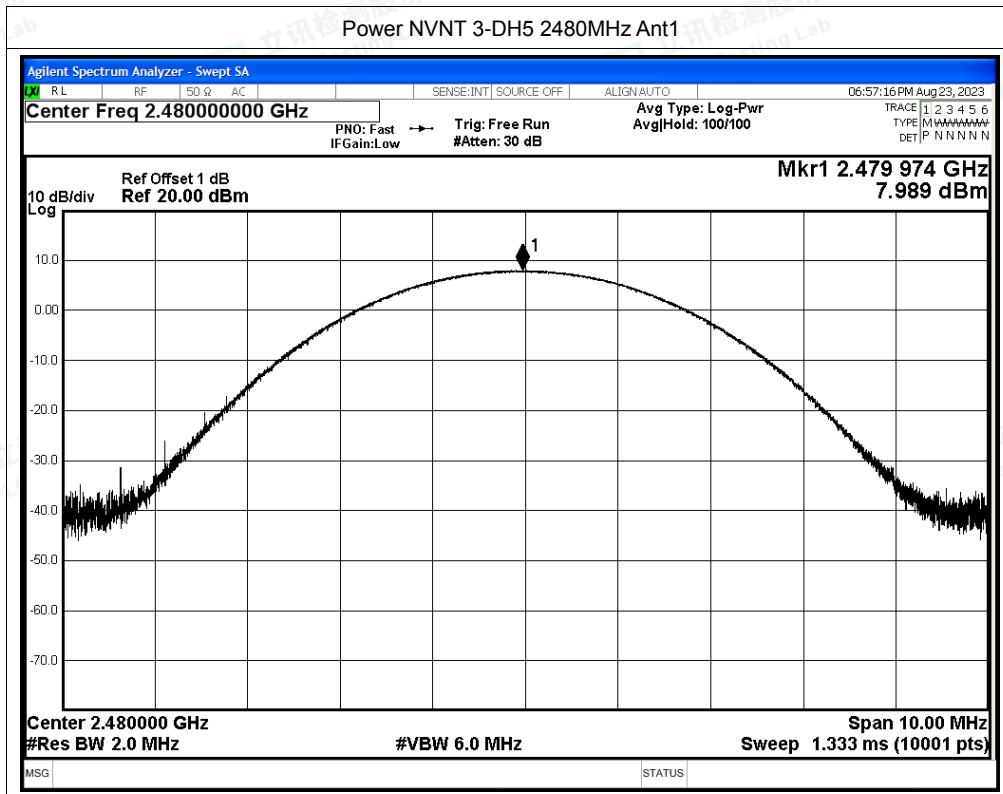


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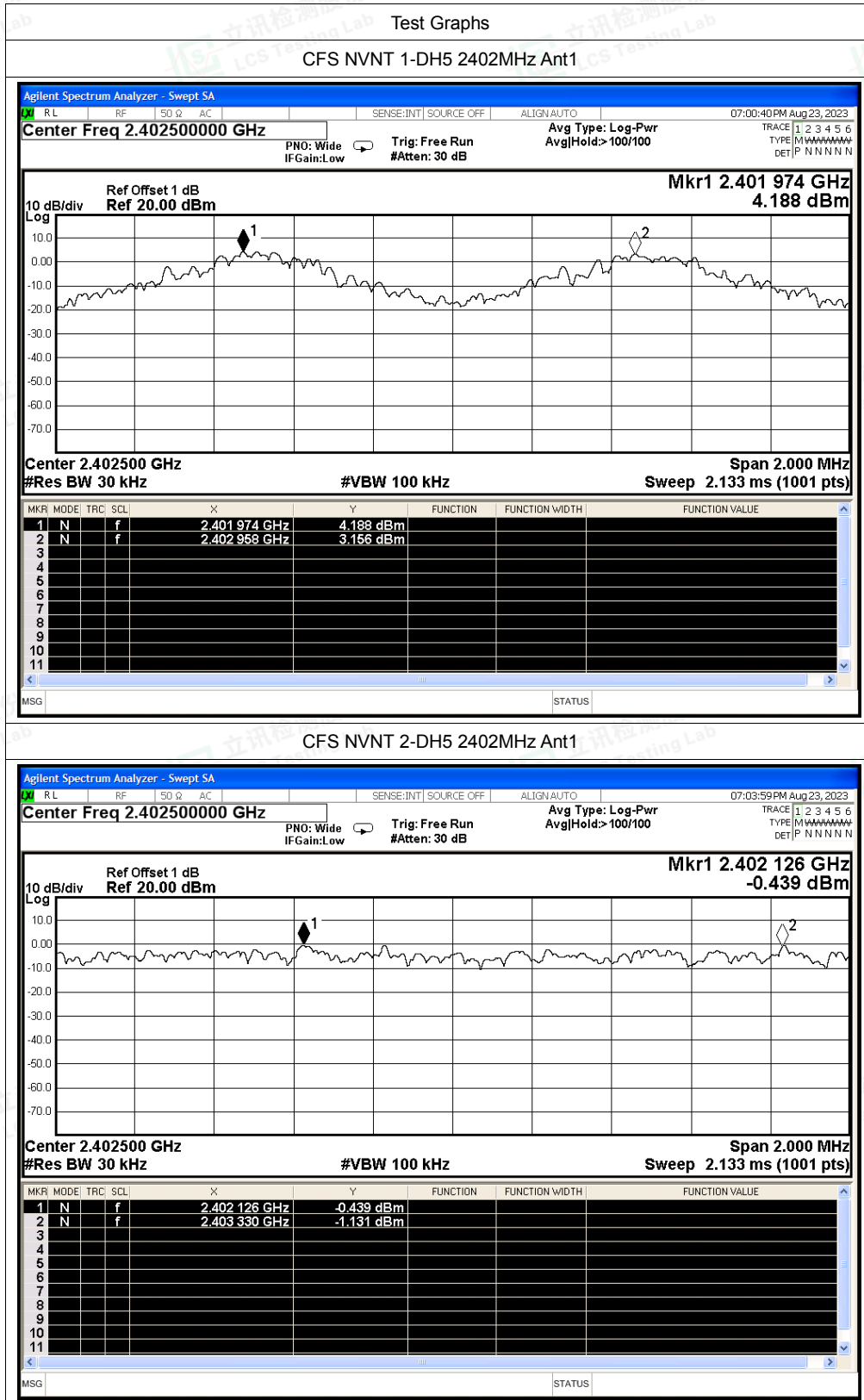
A.3 Carrier frequency separation

Test Result

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.974	2402.958	0.984	0.636	Pass
NVNT	2-DH5	Ant1	2402.126	2403.33	1.204	1.006	Pass
NVNT	3-DH5	Ant1	2402.004	2403.038	1.034	0.985	Pass



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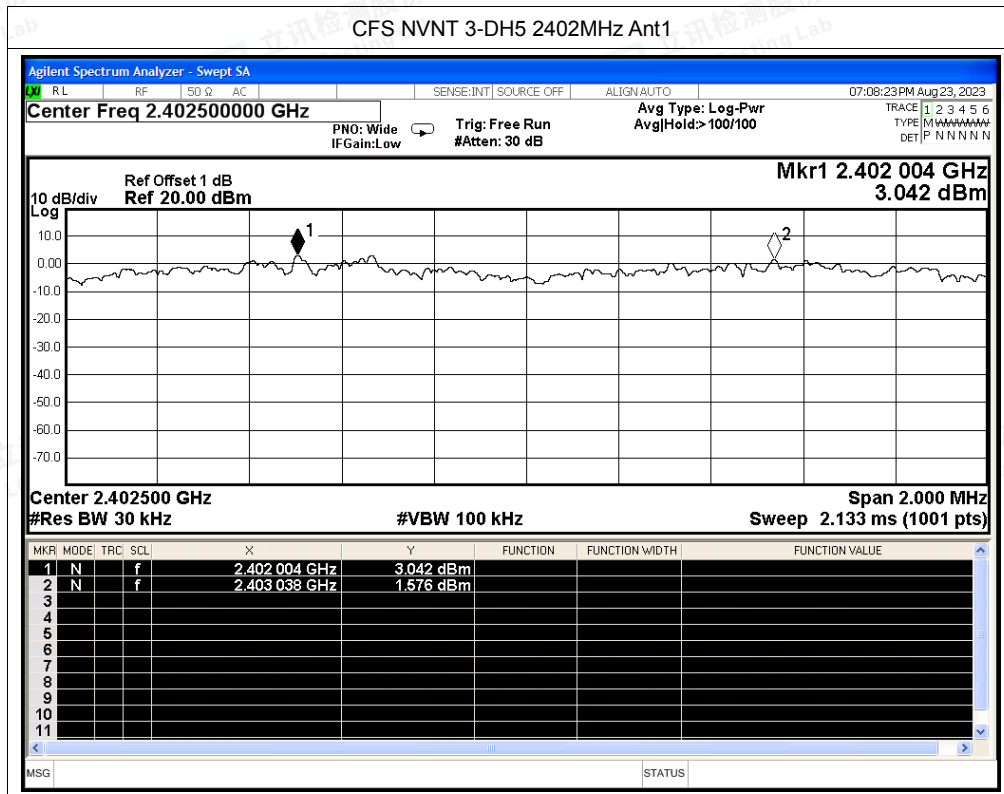


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A.4 Time of occupancy

Test Result

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	2.885	326.005	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.889	262.899	91	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.891	286.209	99	31600	400	Pass

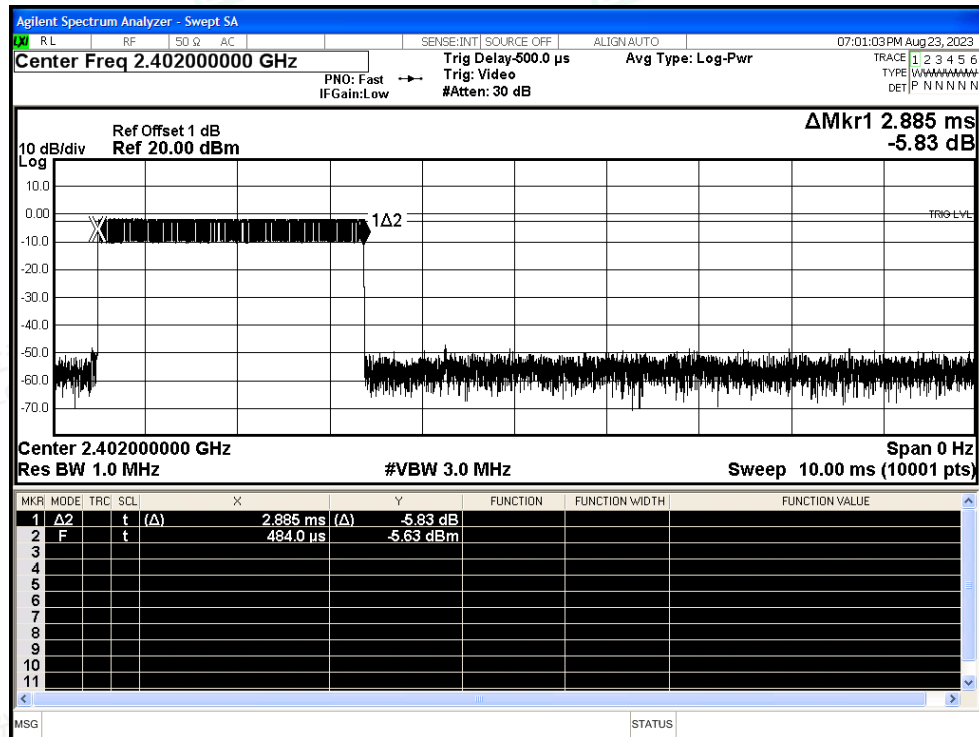


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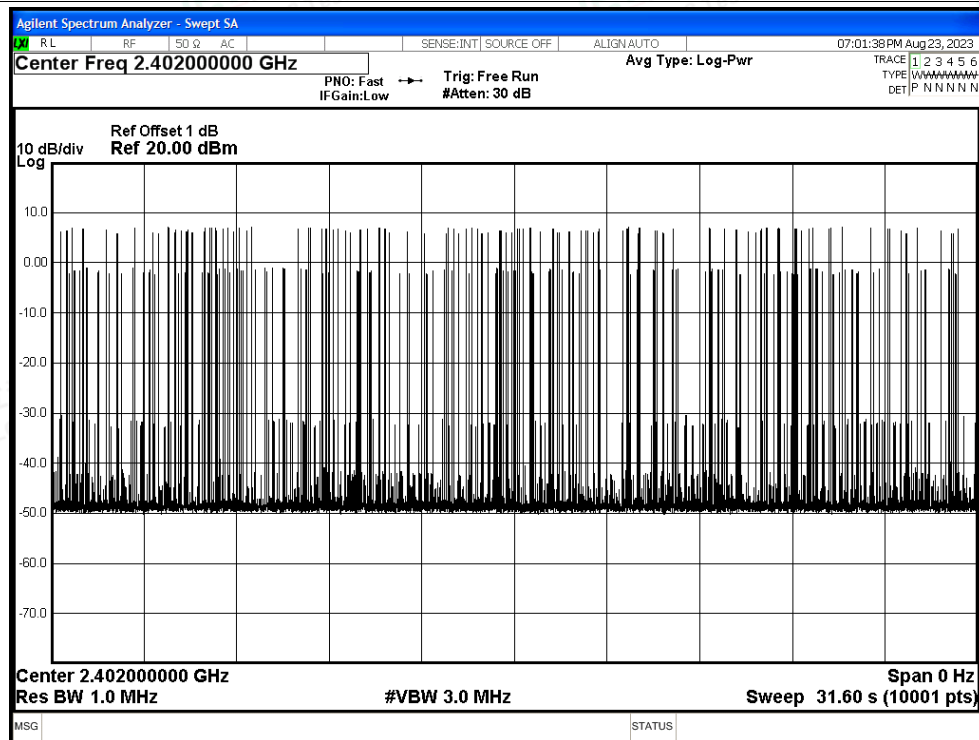


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

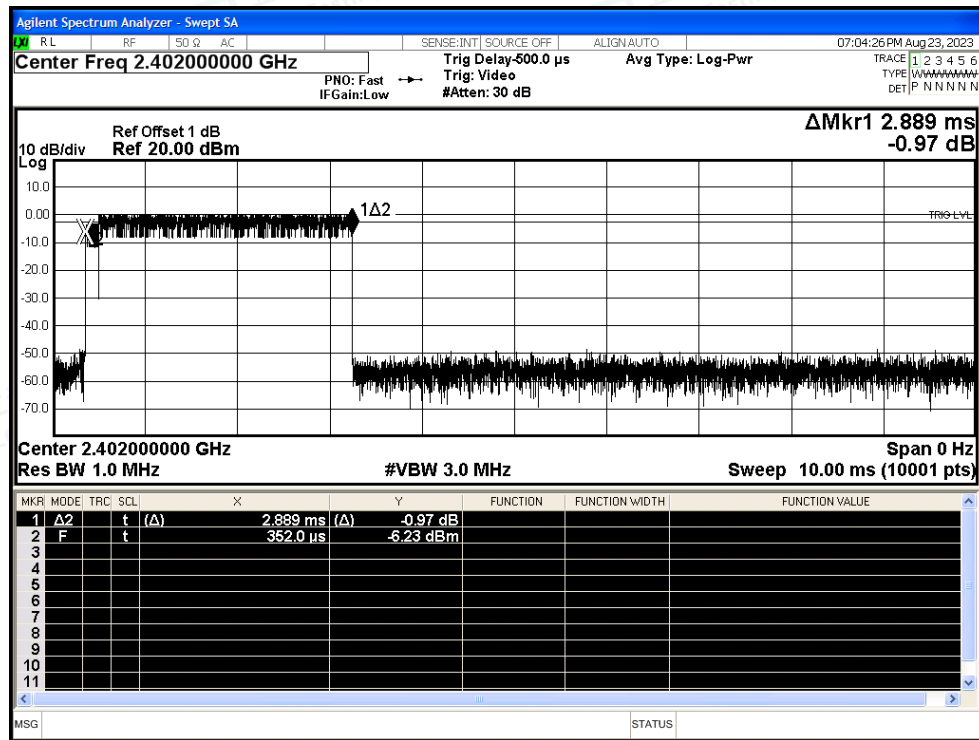
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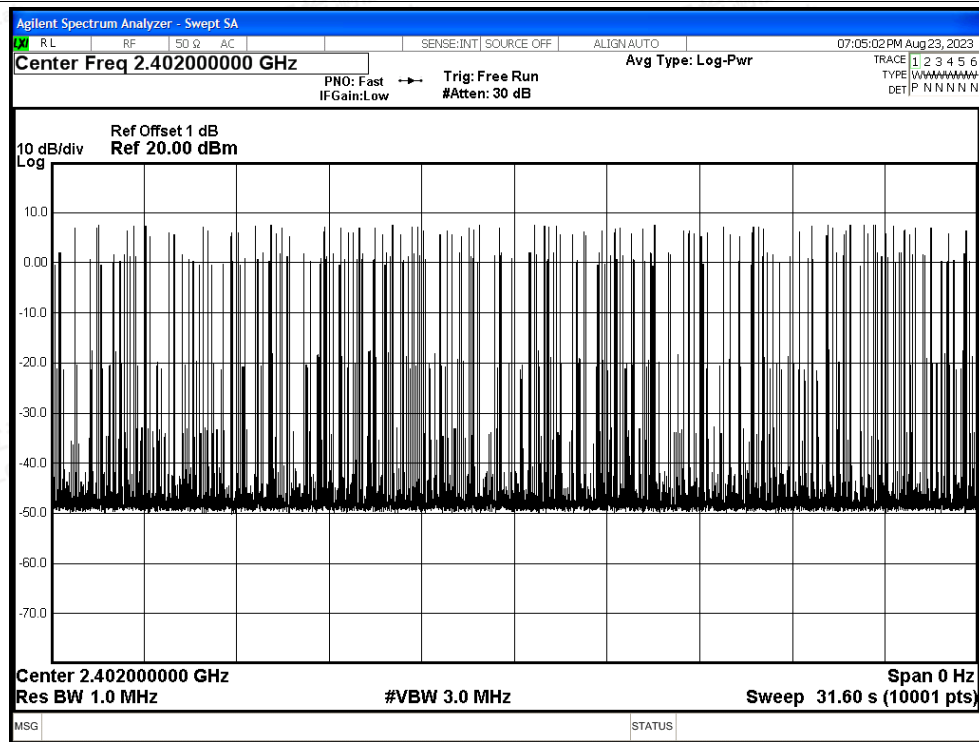
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

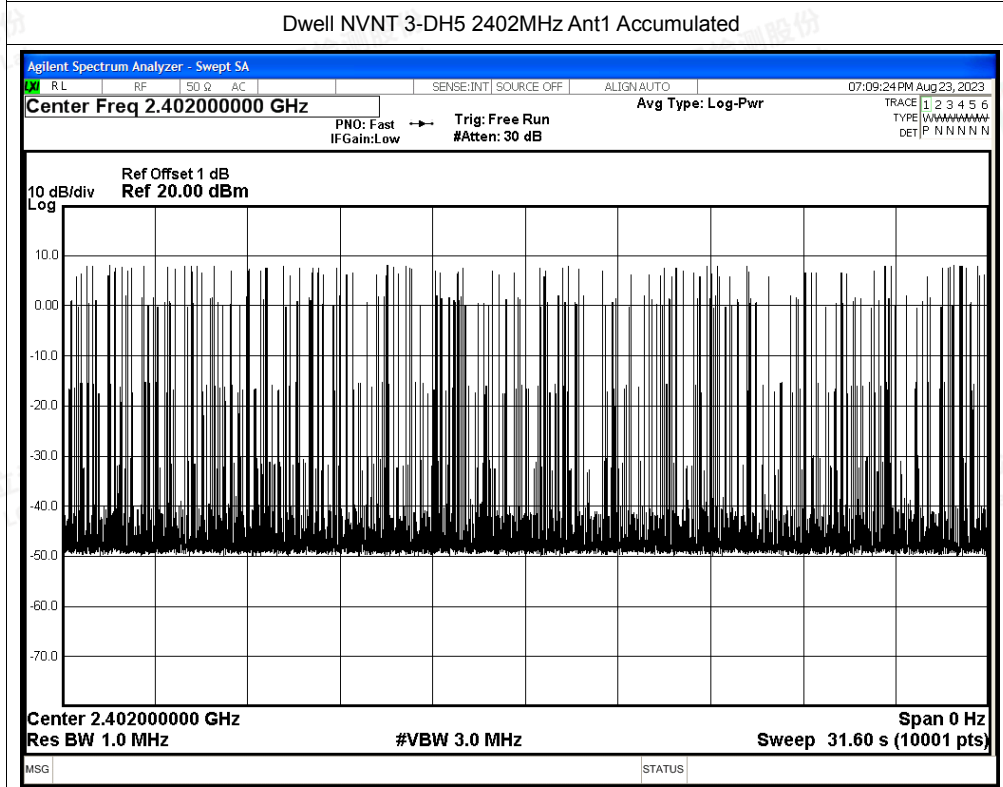
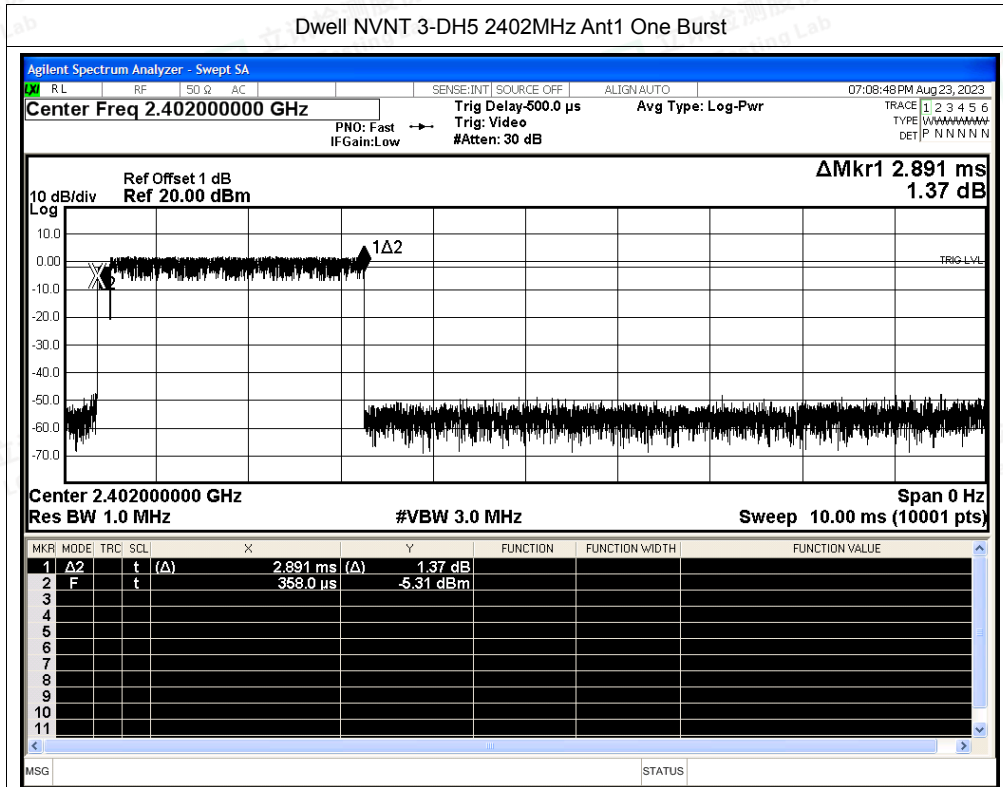


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A.5 Number of hopping channels

Test Result

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

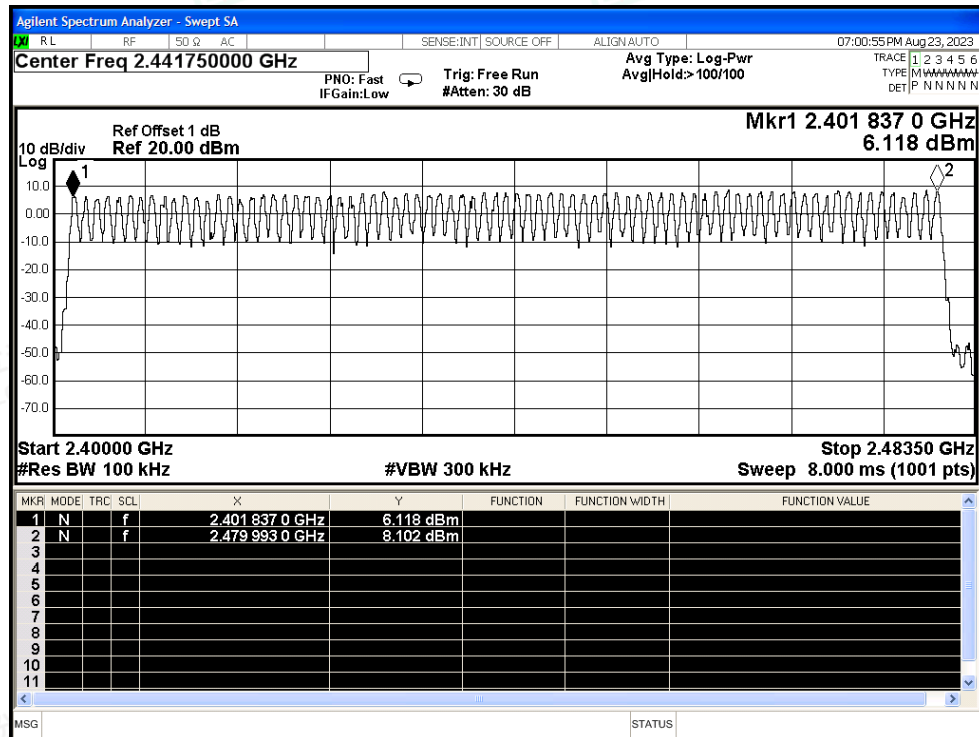


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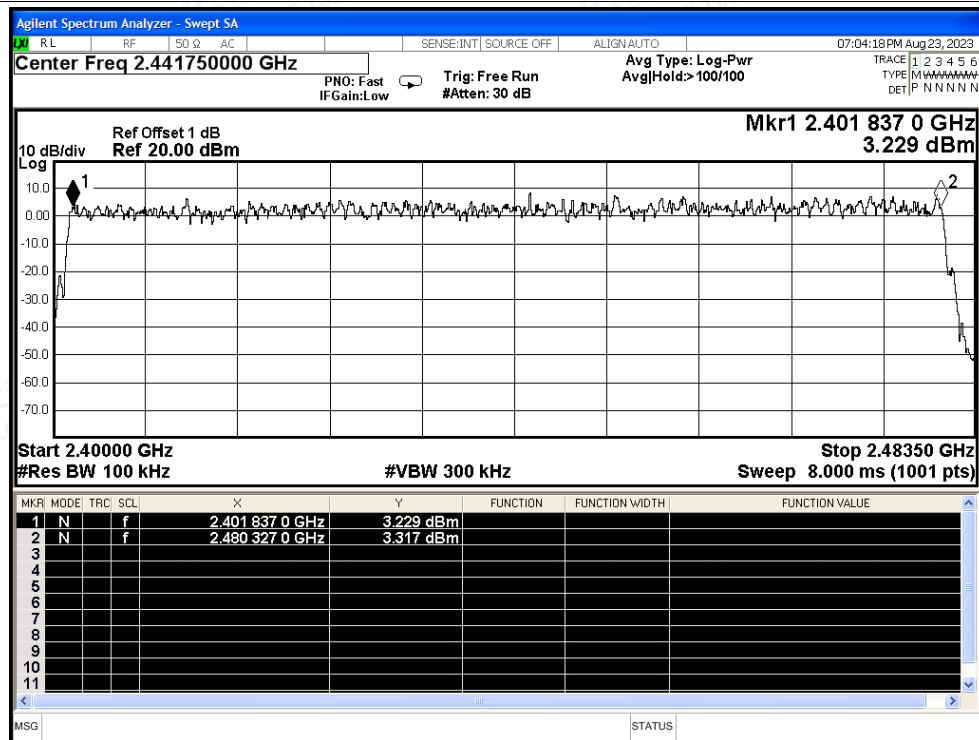


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

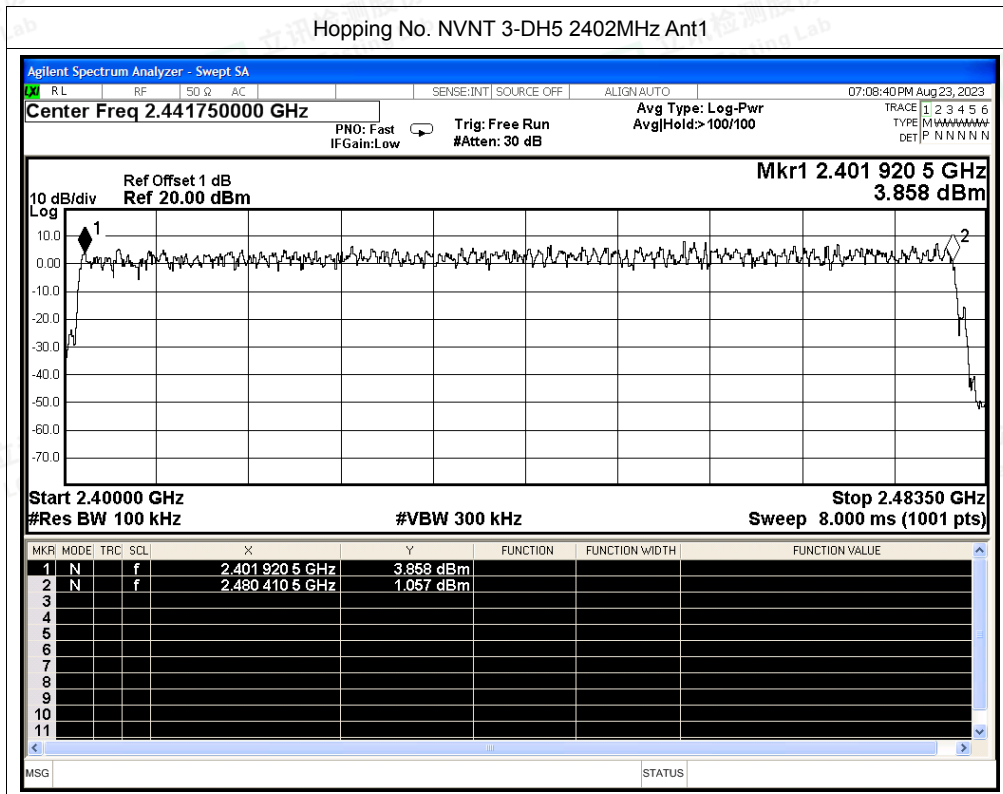


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A.6 Band edge measurements

Test Result

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.38	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.4	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-44.91	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-46.19	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-45.04	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-51.1	-20	Pass

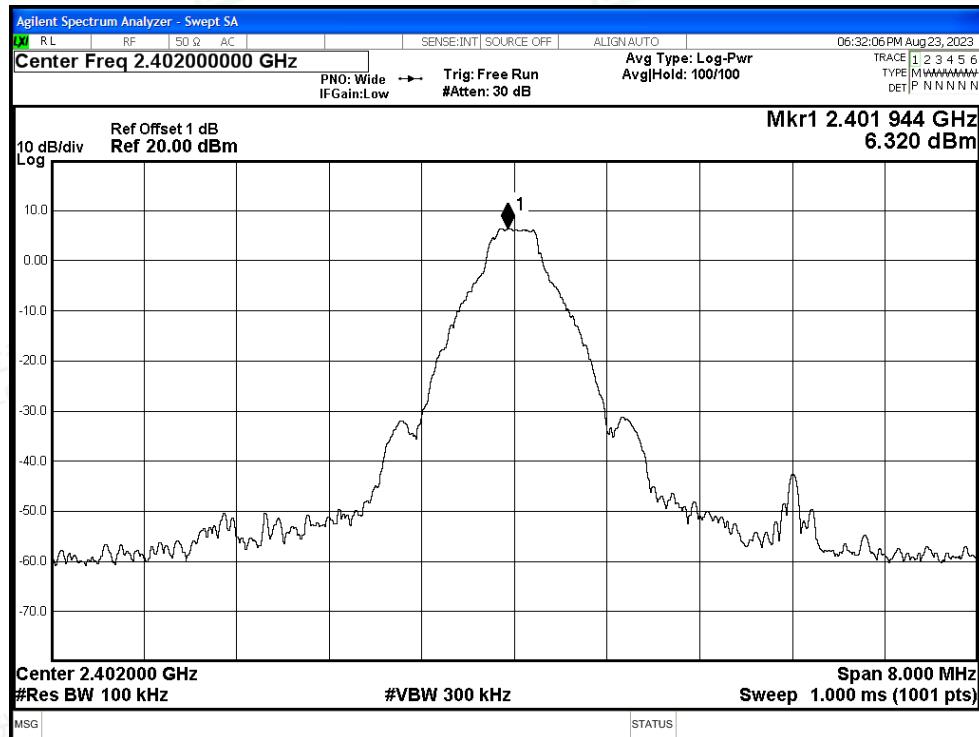


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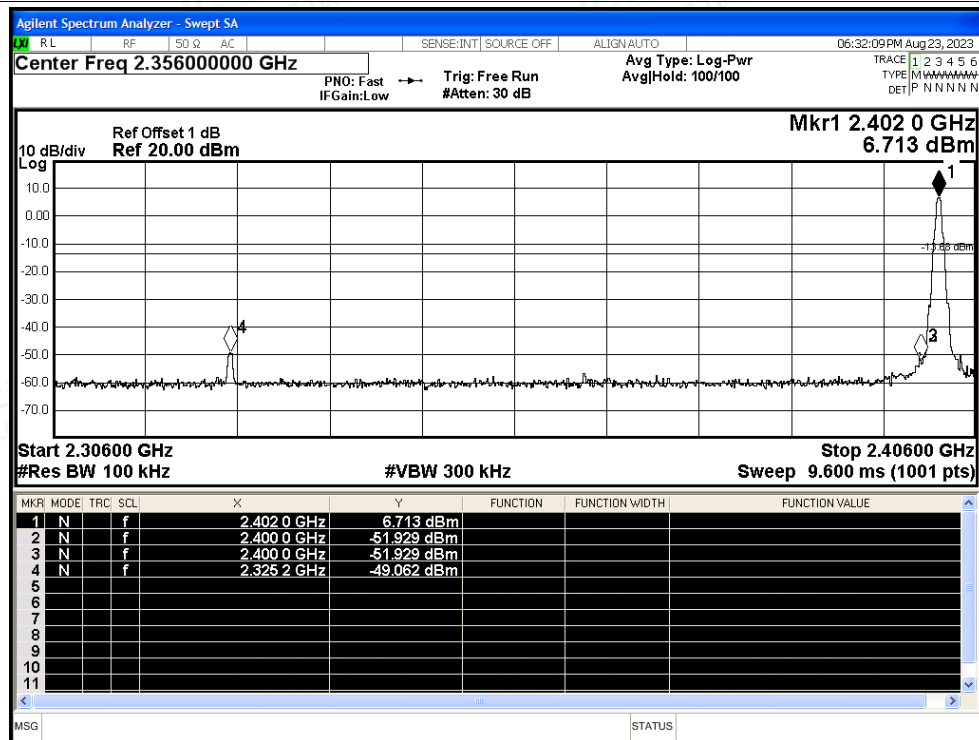


Test Graphs

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



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



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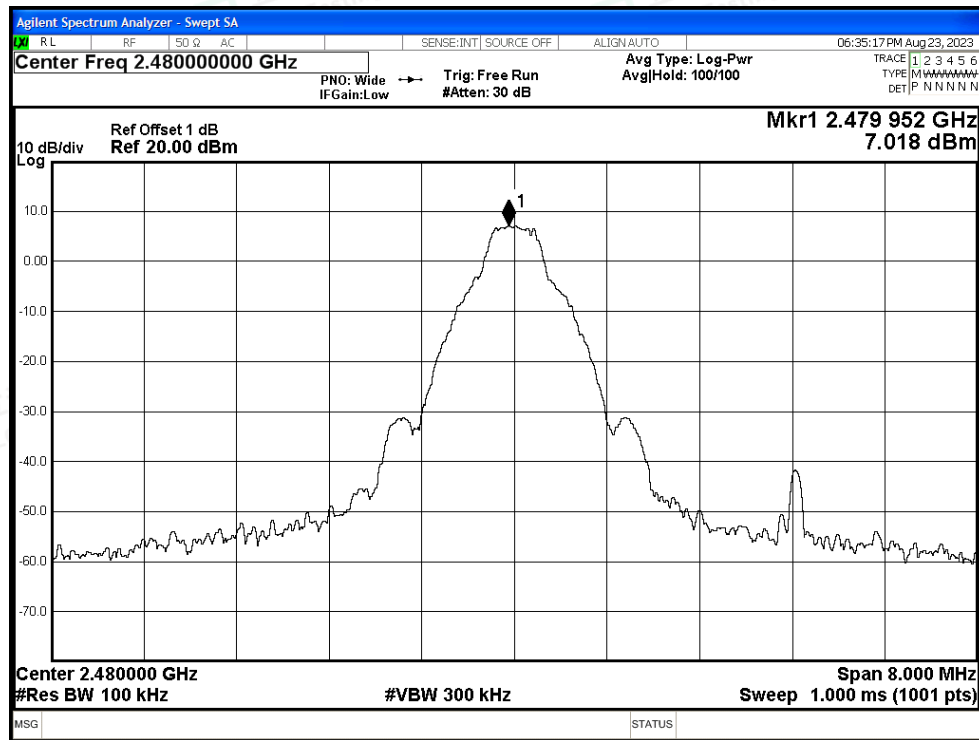
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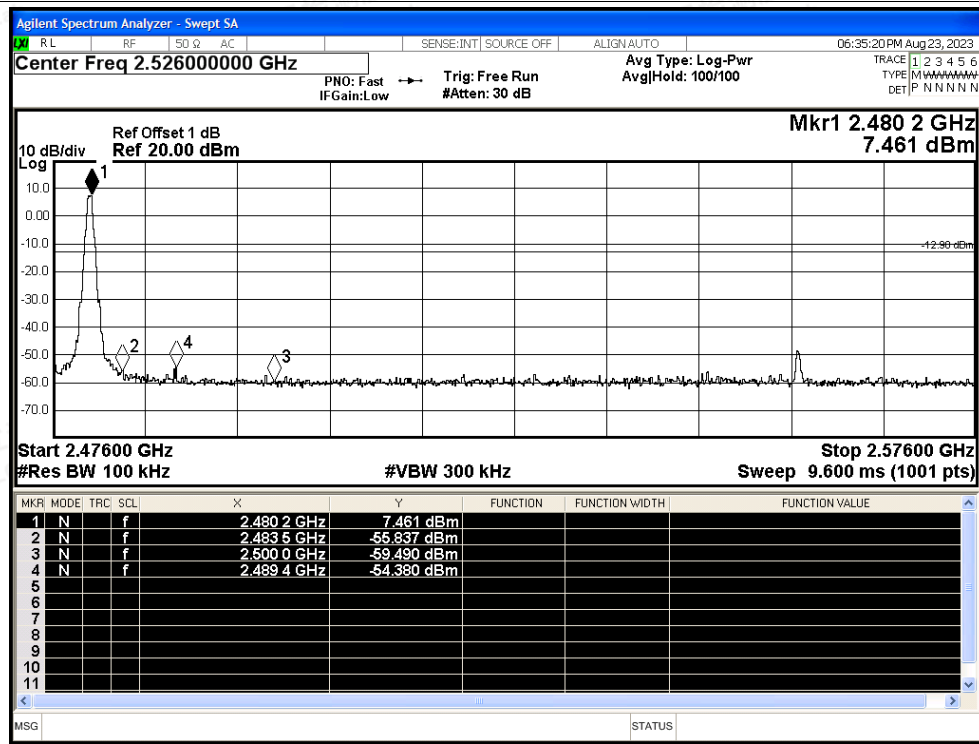
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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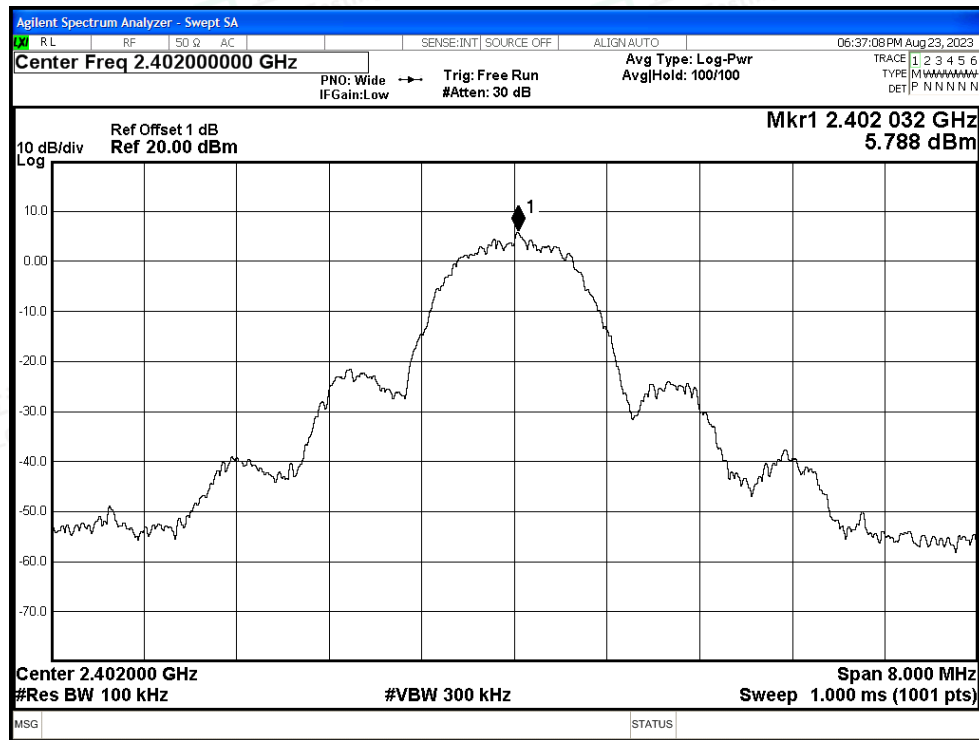
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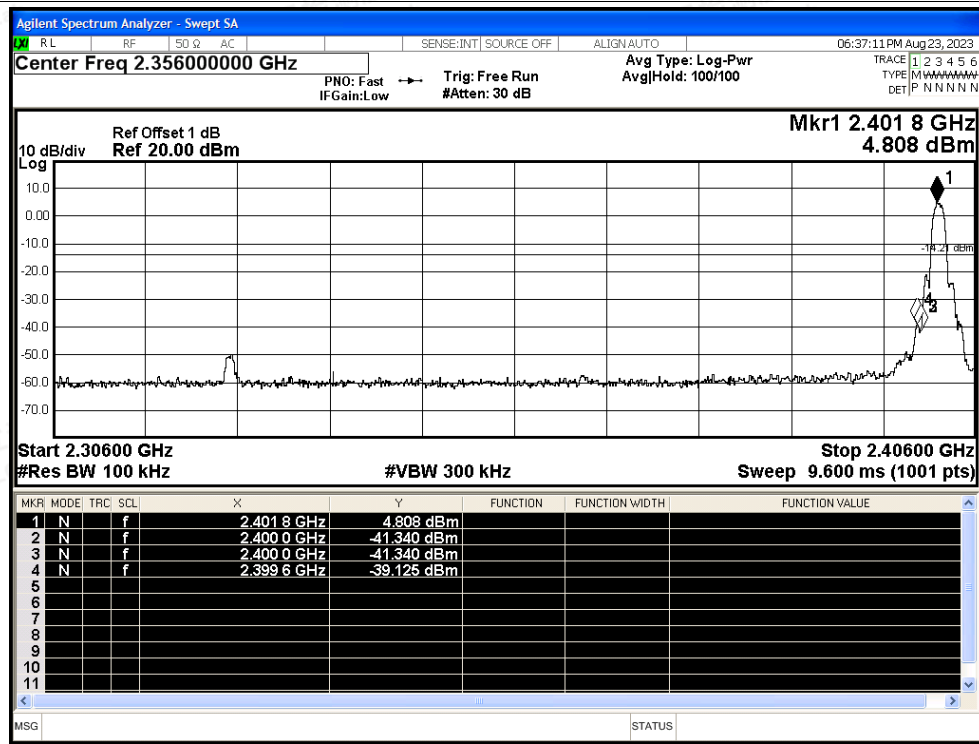
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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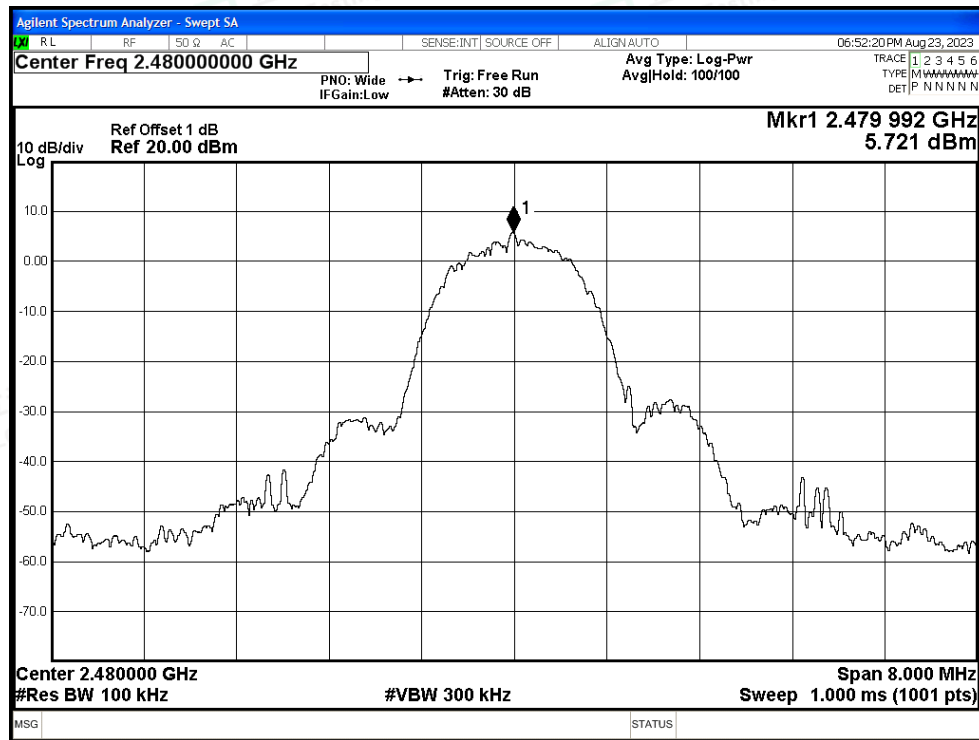
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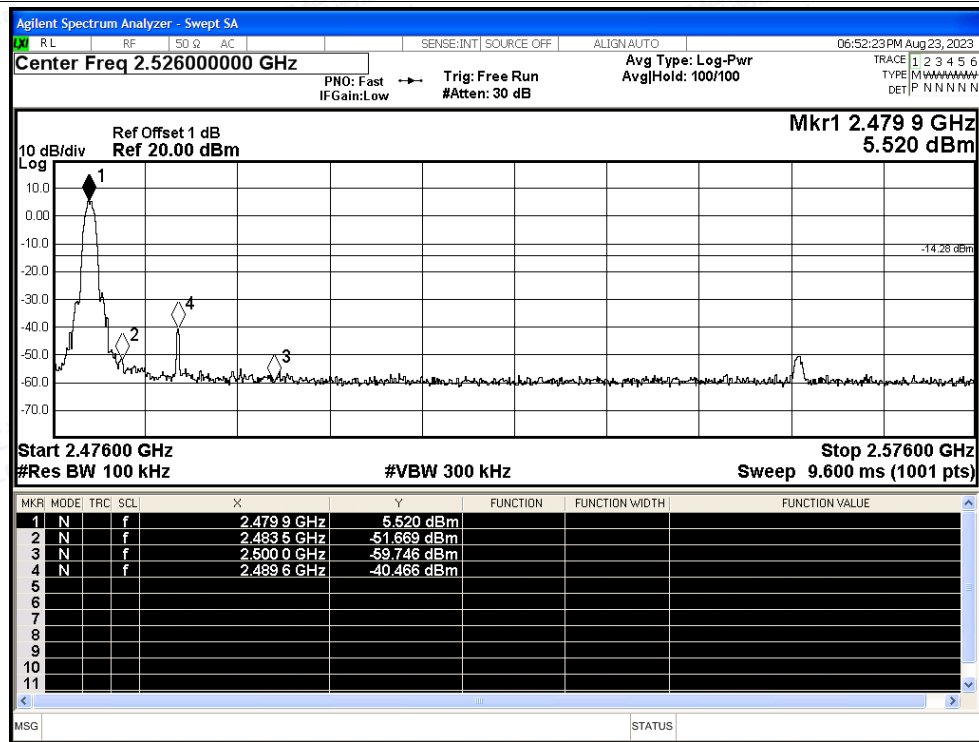
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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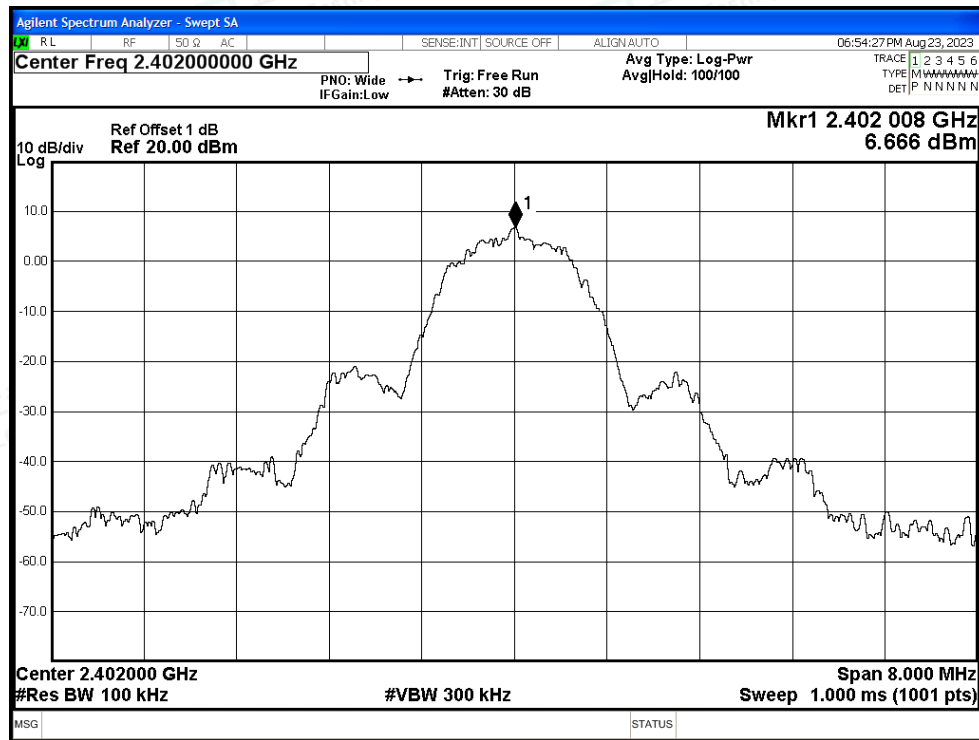
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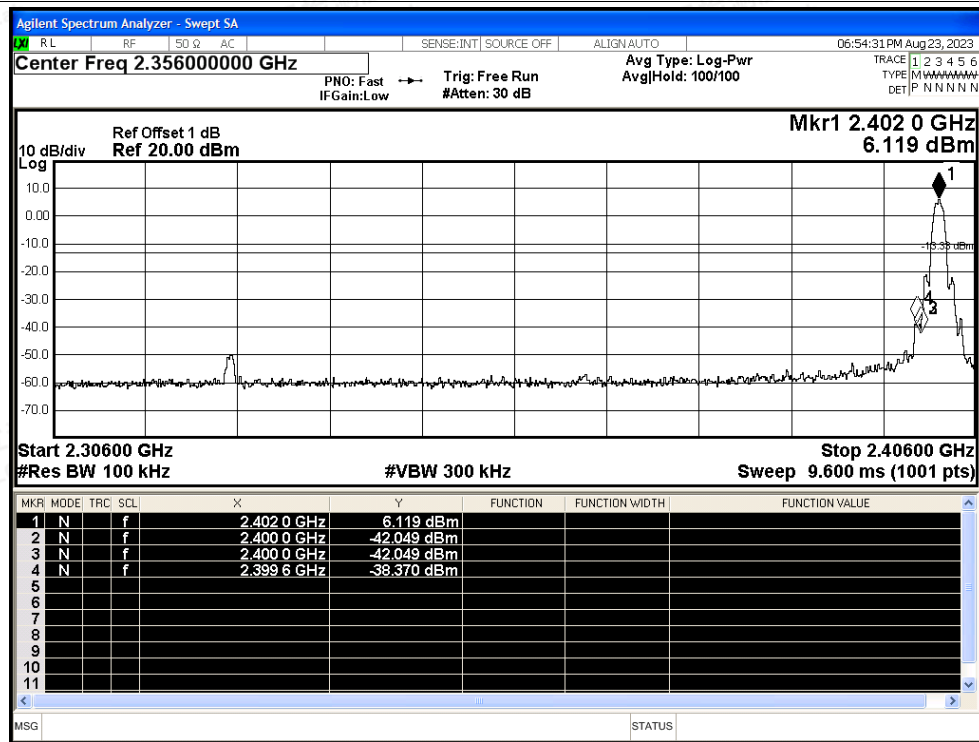
Scan code to check authenticity



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



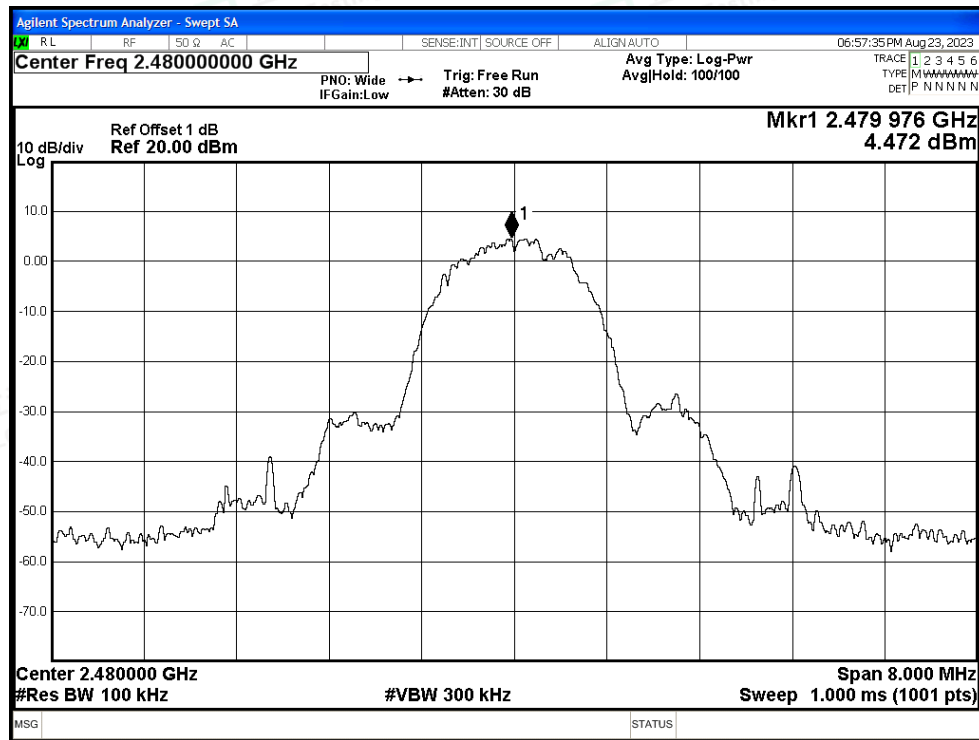
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



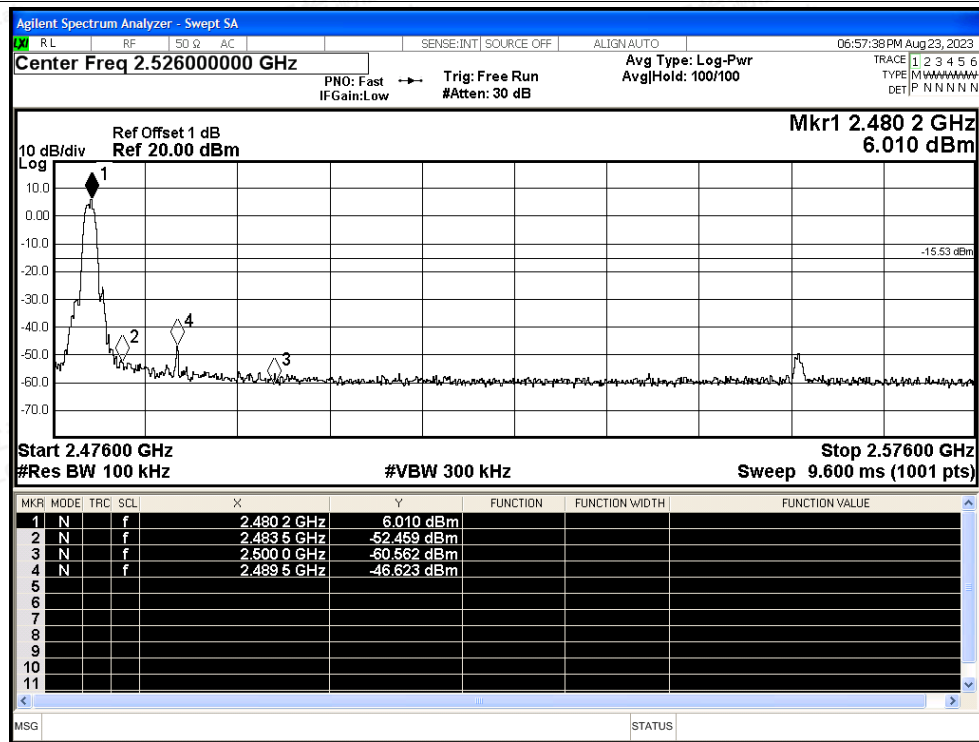
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
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NVNT	1-DH5	2402	Ant1	Hopping	-53.5	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-49.11	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.18	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.97	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.89	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.11	-20	Pass

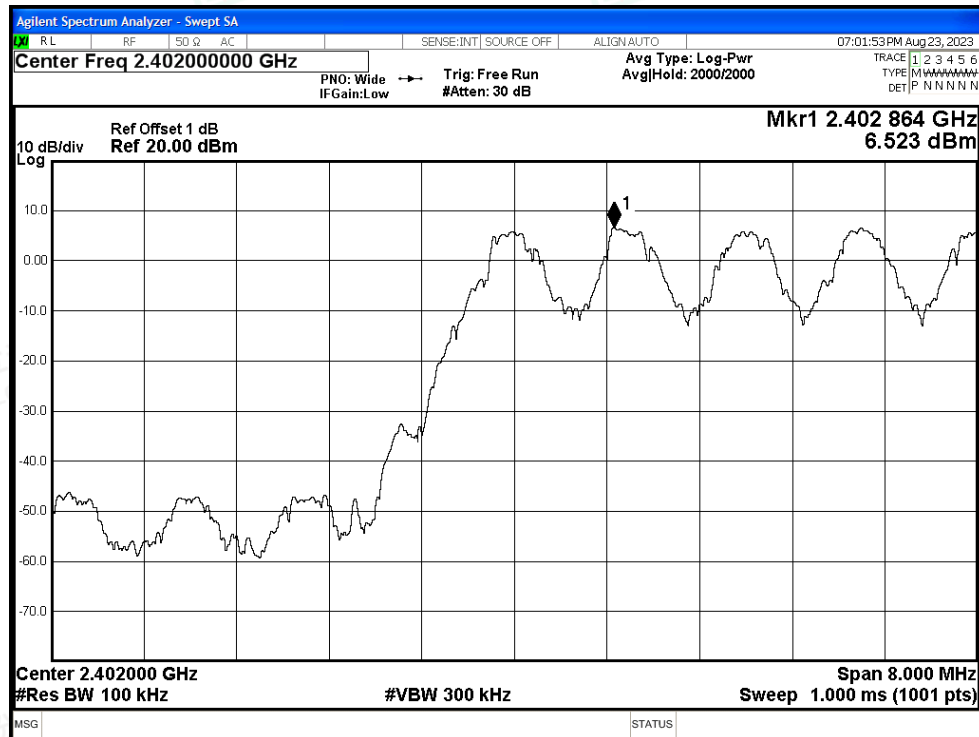


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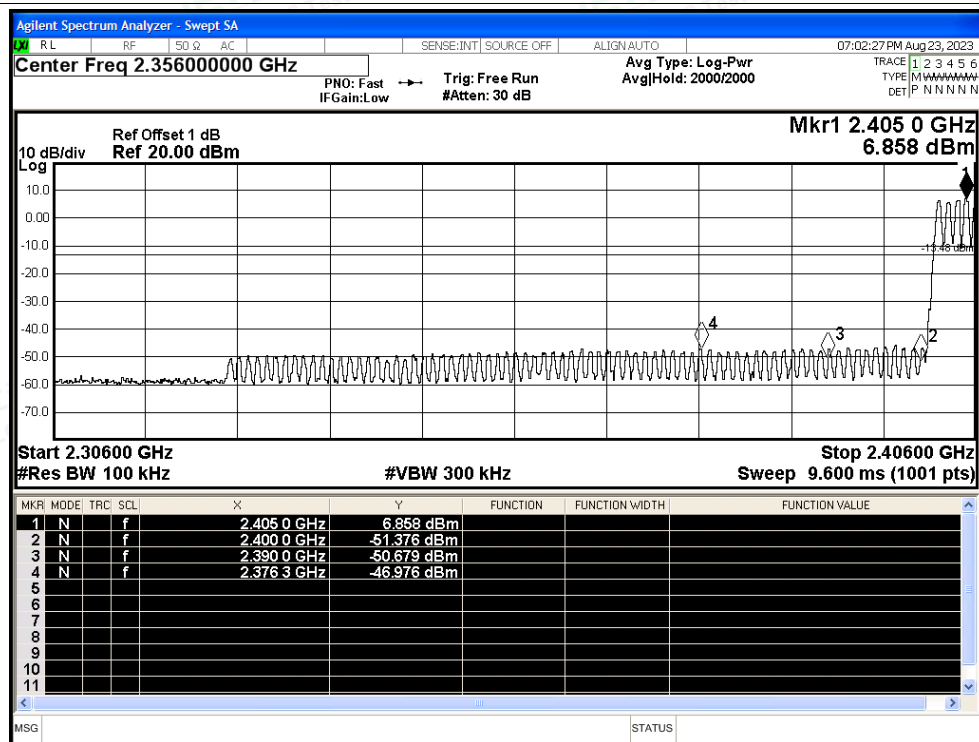


Test Graphs

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



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

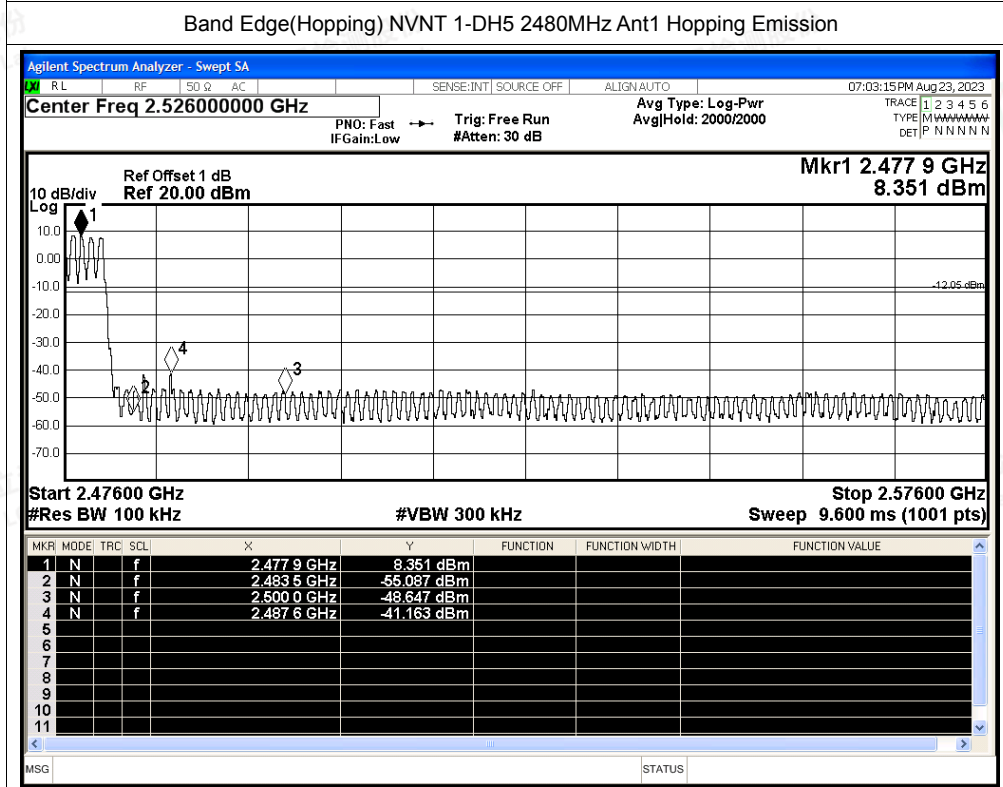
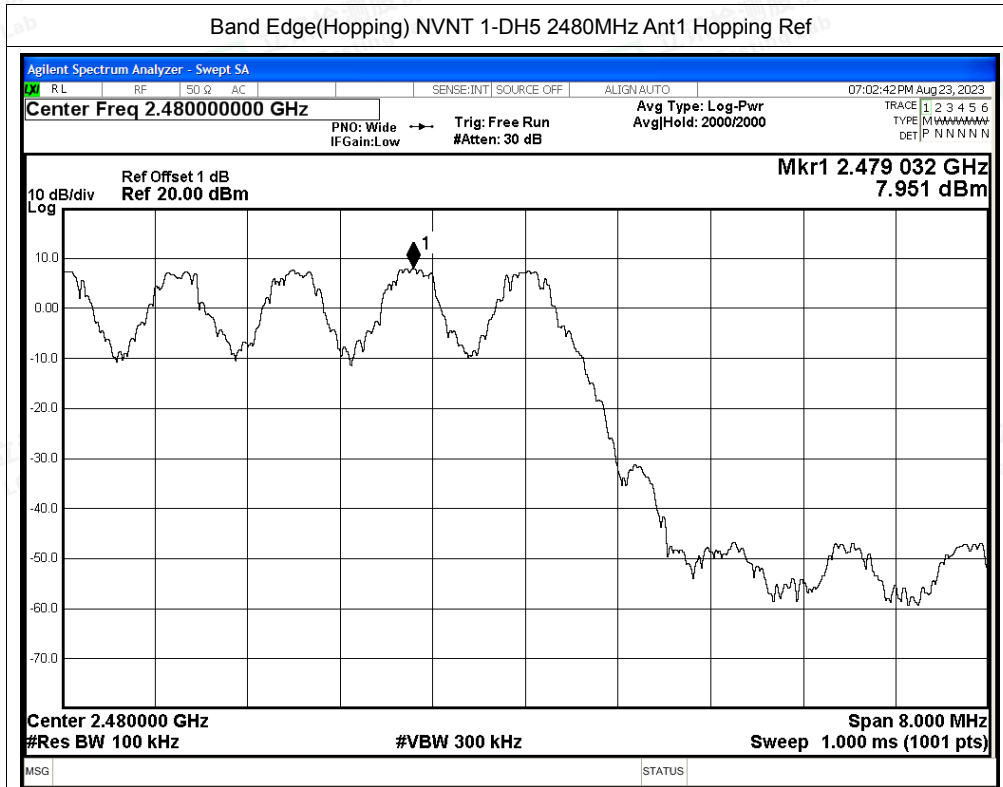


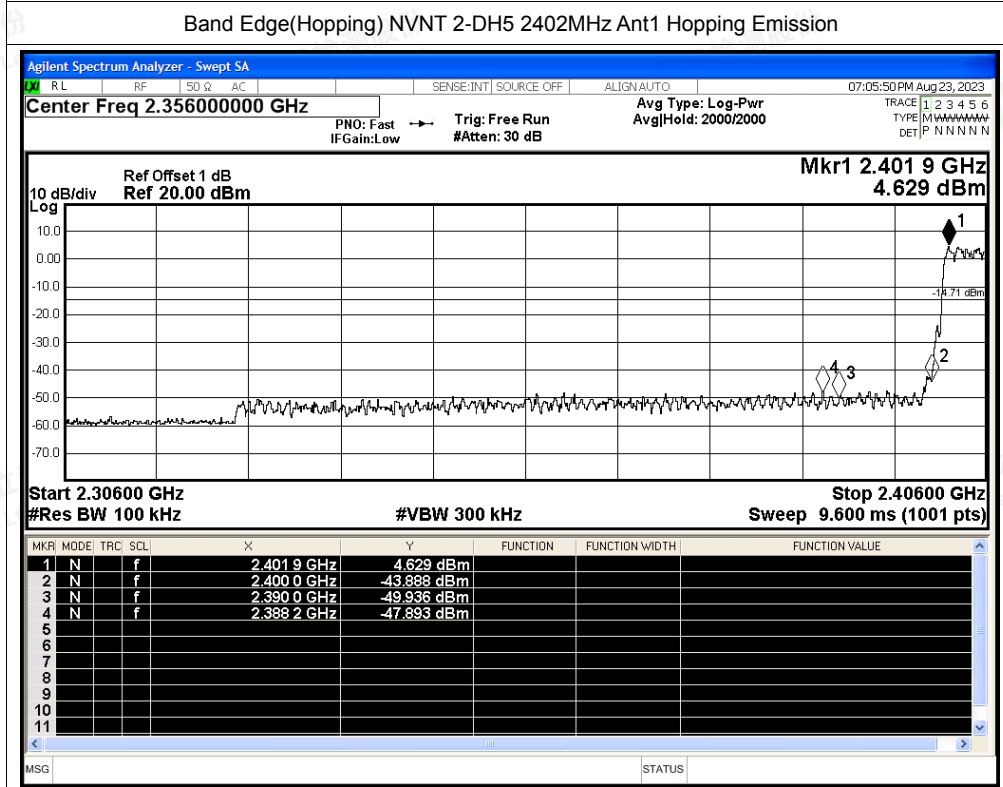
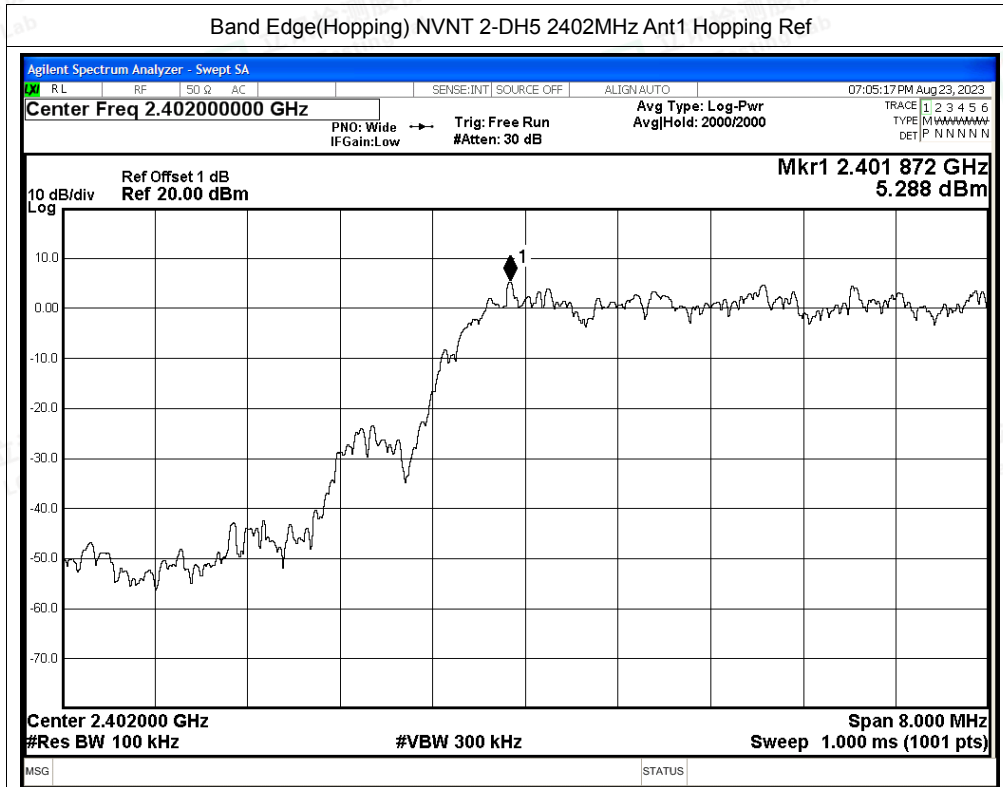
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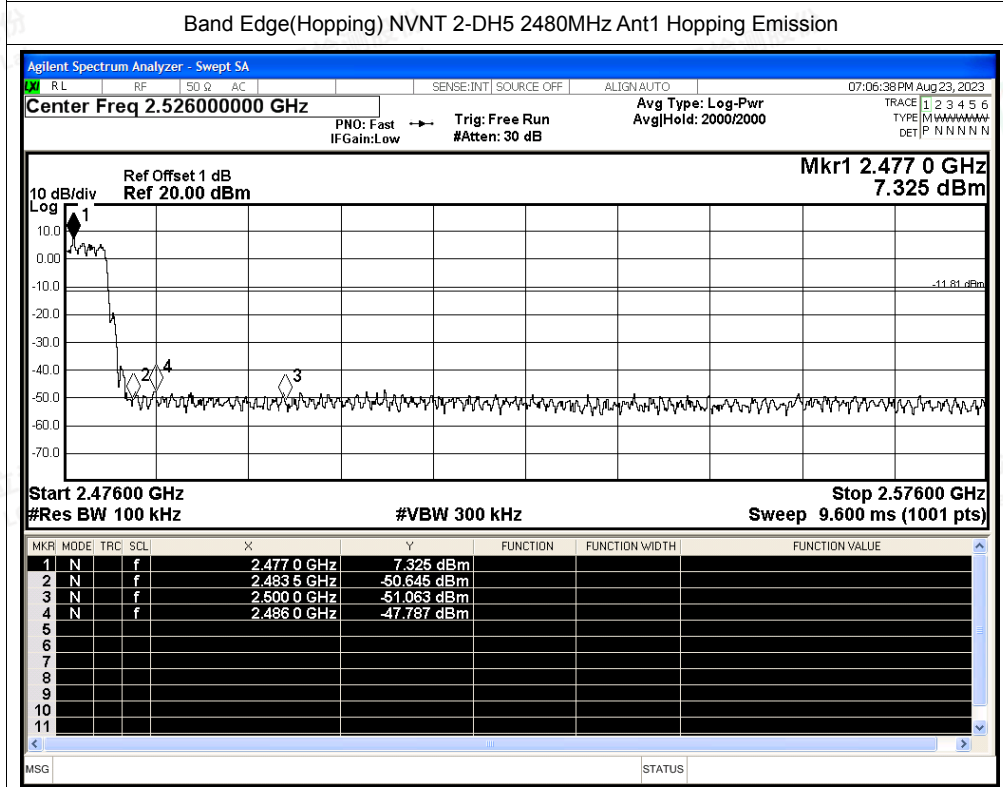
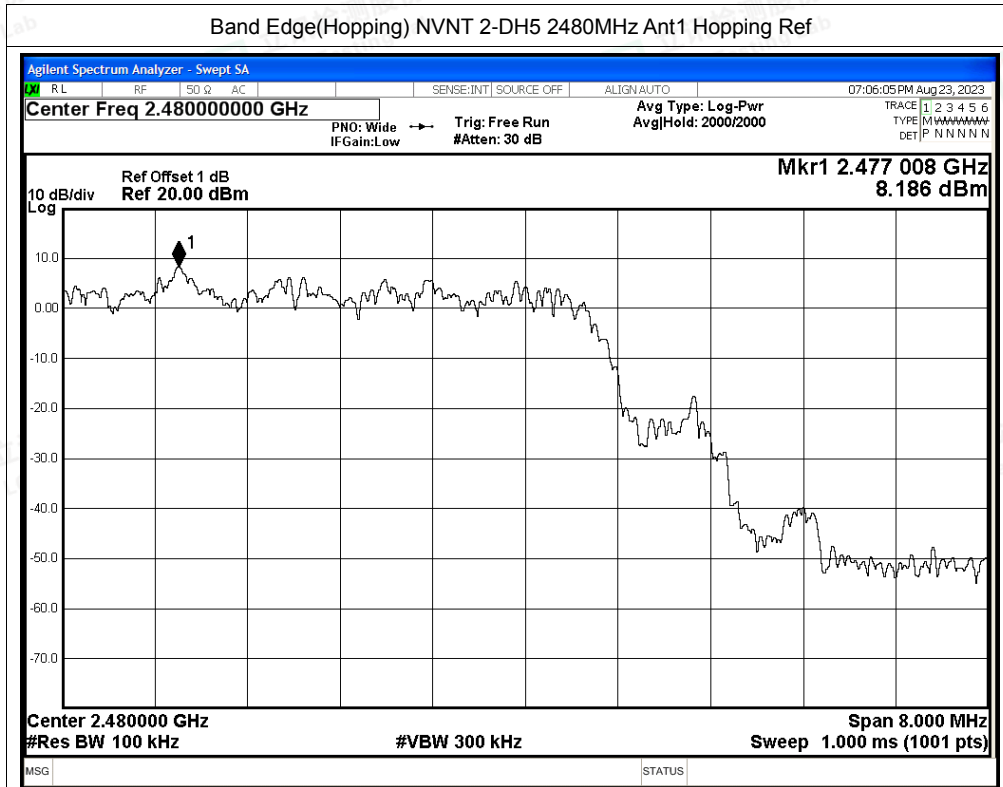
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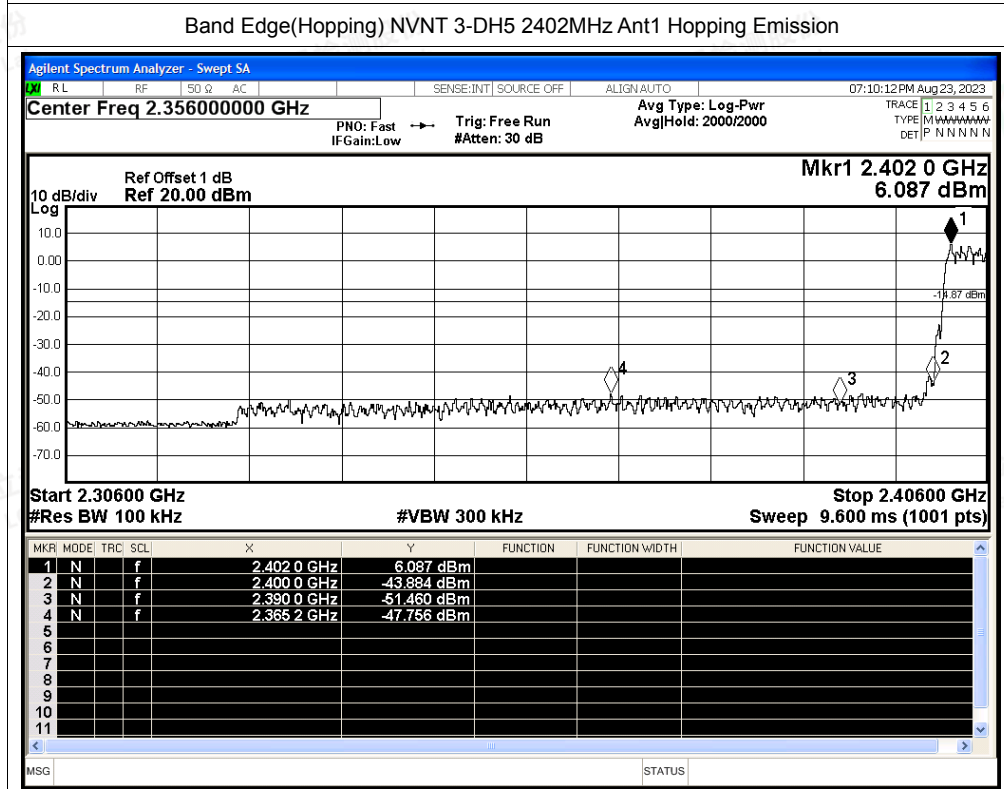
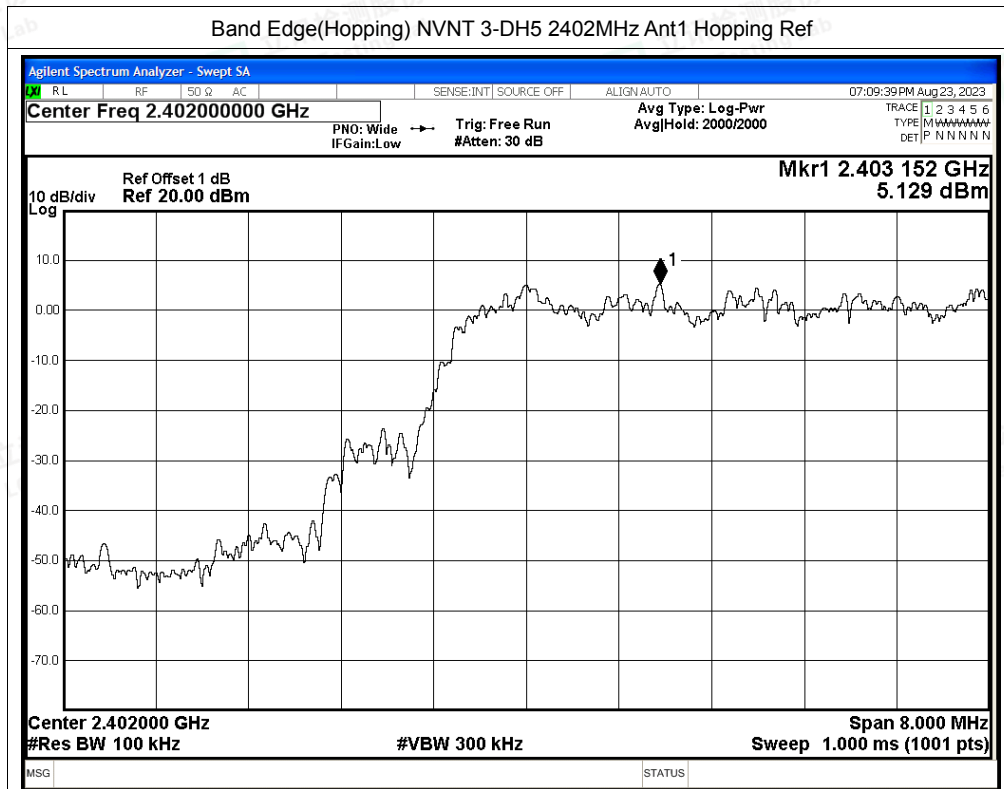
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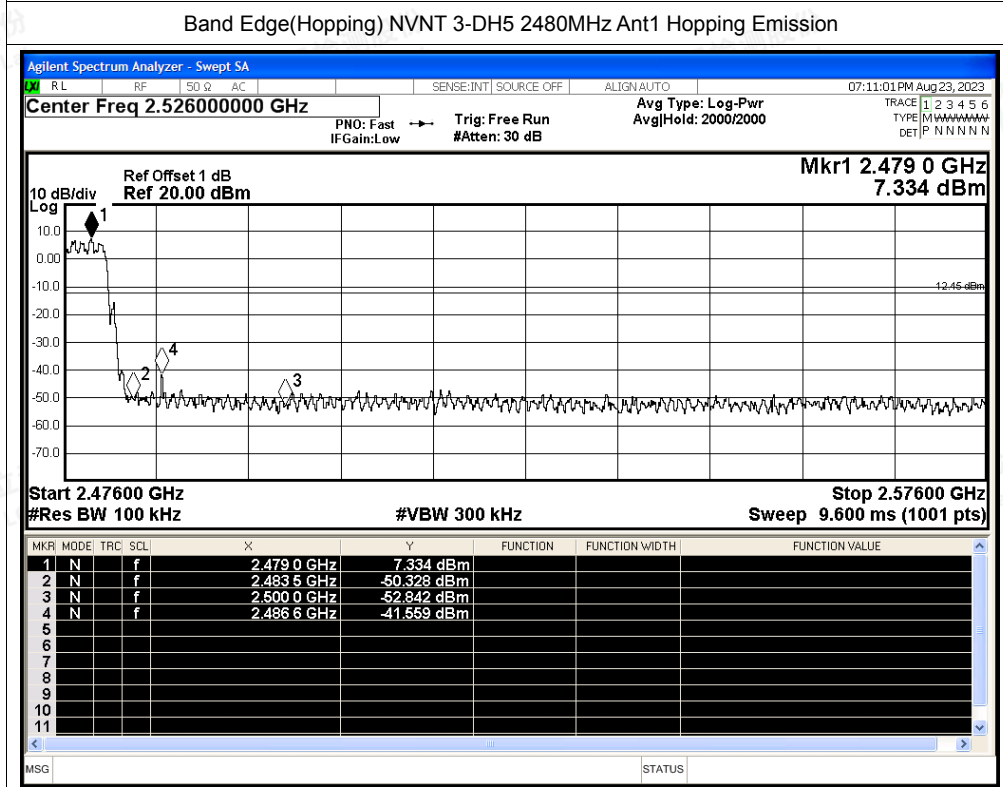
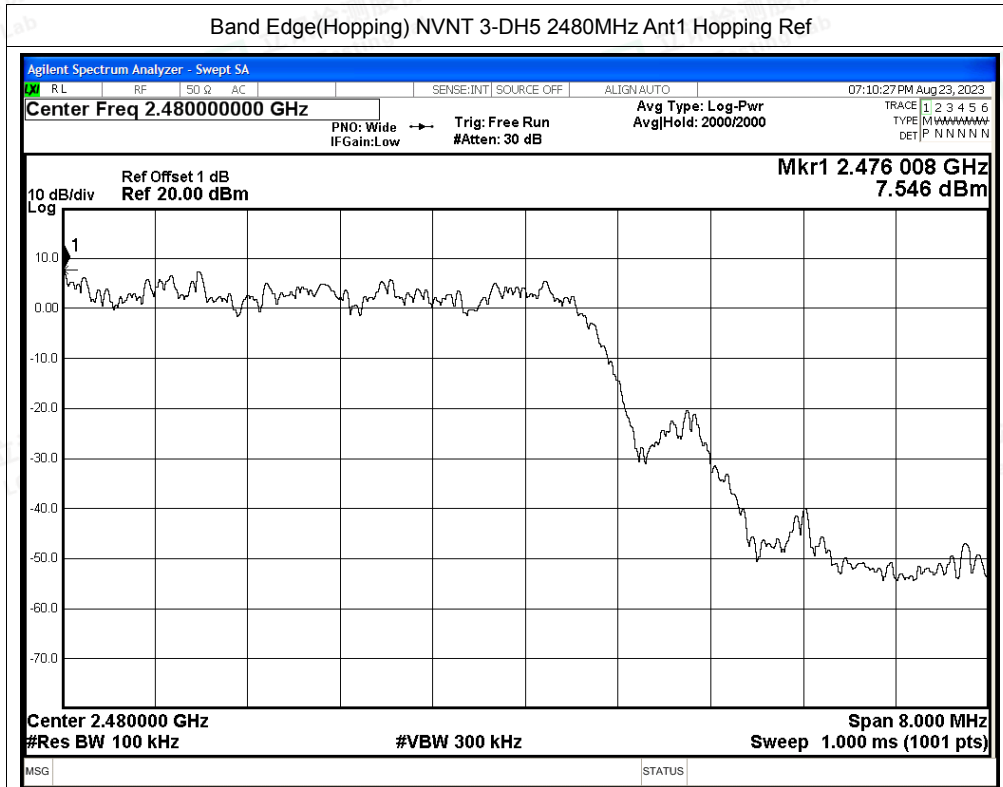


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A.7 Conducted Spurious Emission

Test Result

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.41	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.28	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.98	-20	Pass
NVNT	2-DH5	2402	Ant1	-58.41	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.95	-20	Pass
NVNT	2-DH5	2480	Ant1	-57.16	-20	Pass
NVNT	3-DH5	2402	Ant1	-57.36	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.92	-20	Pass
NVNT	3-DH5	2480	Ant1	-57.13	-20	Pass

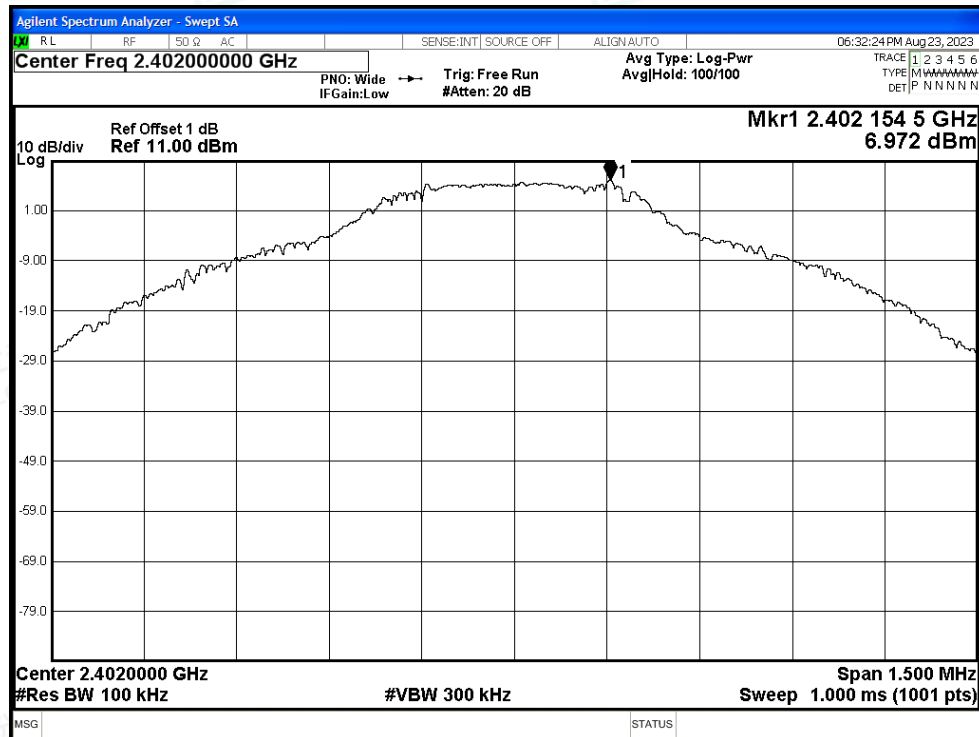


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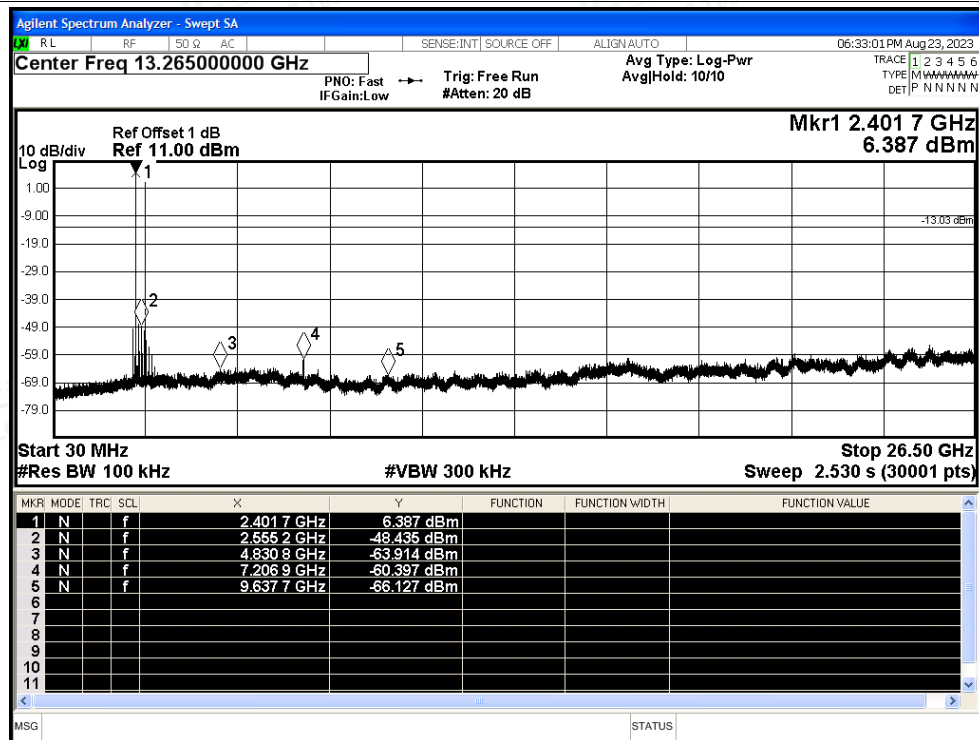


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

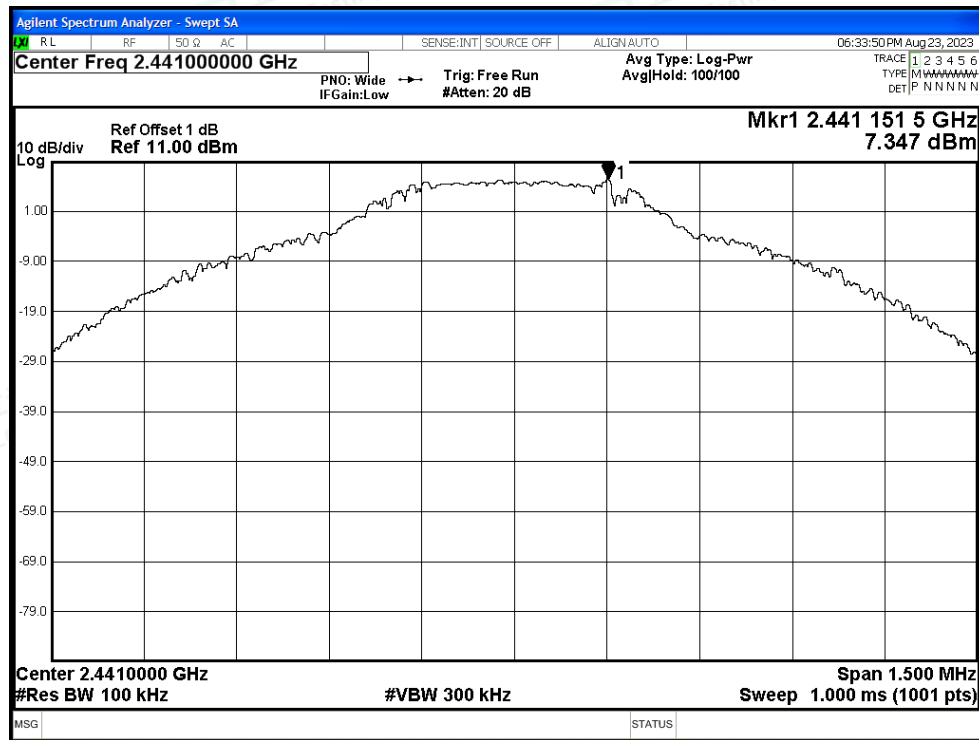
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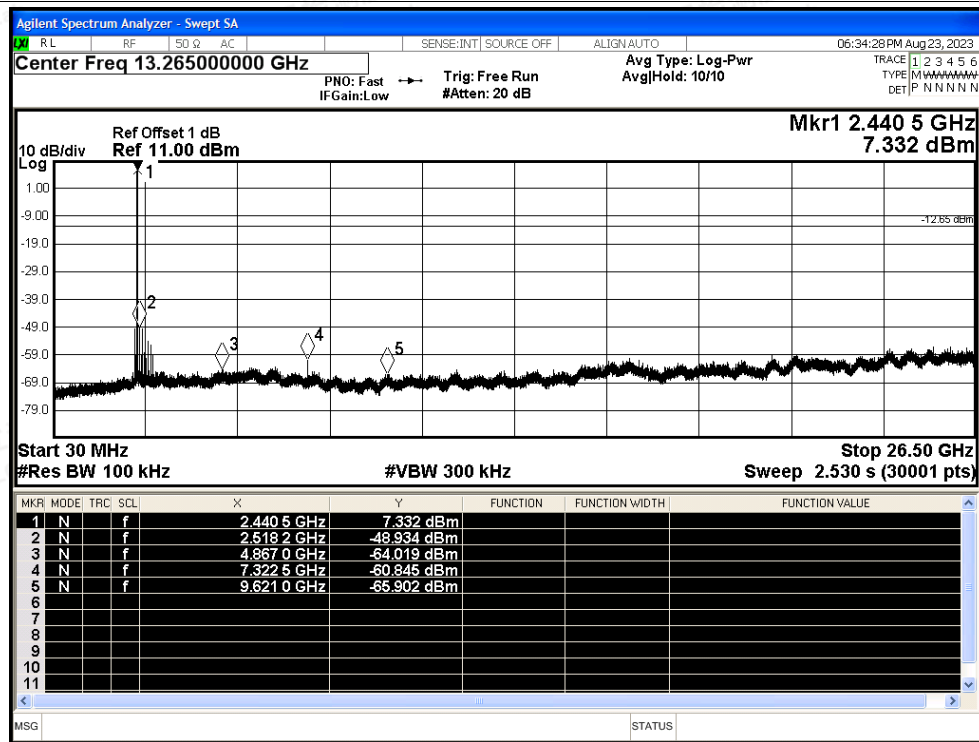
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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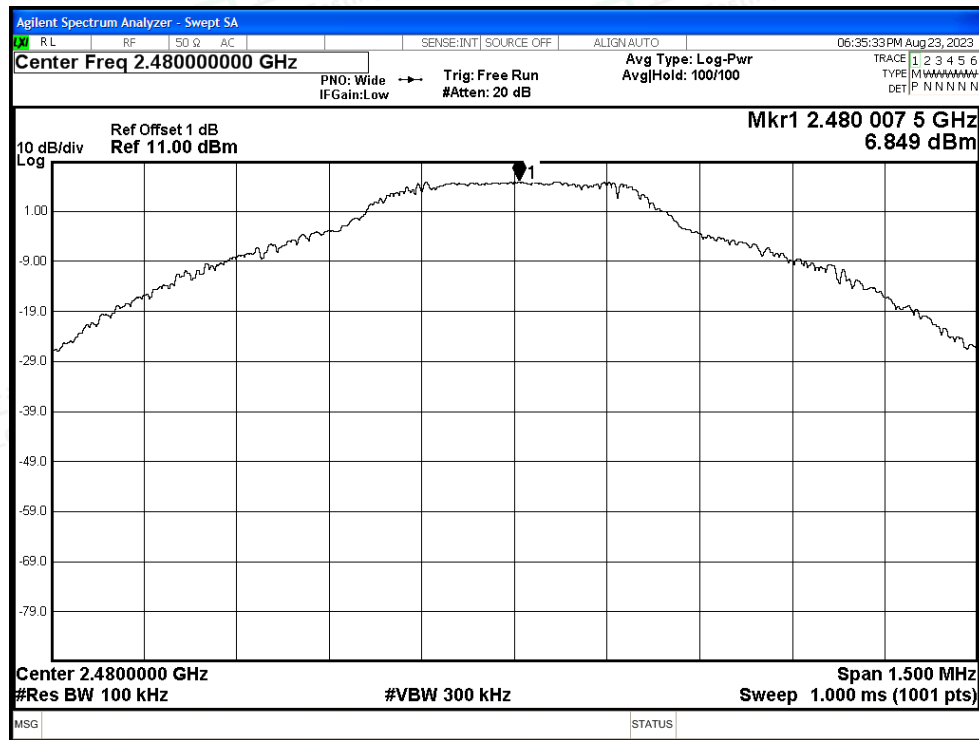
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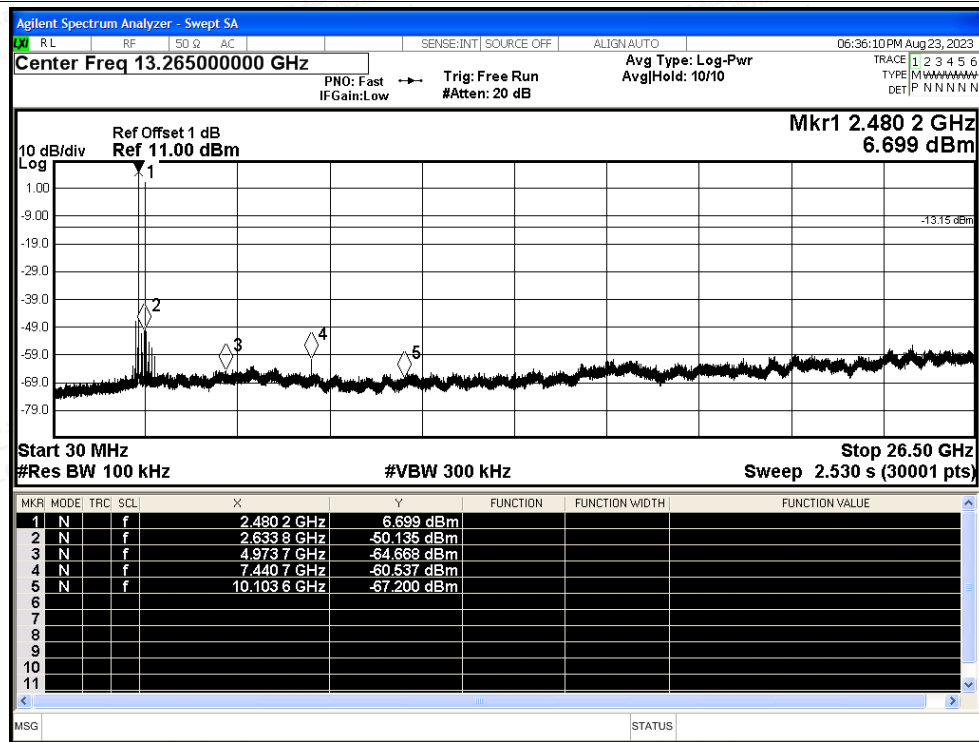
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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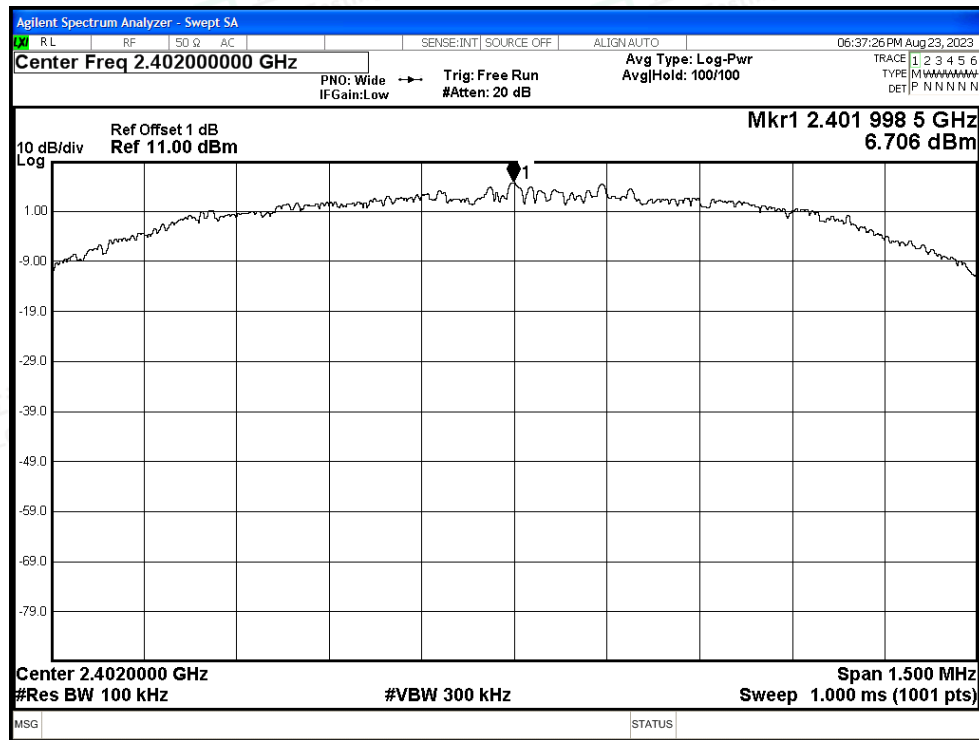
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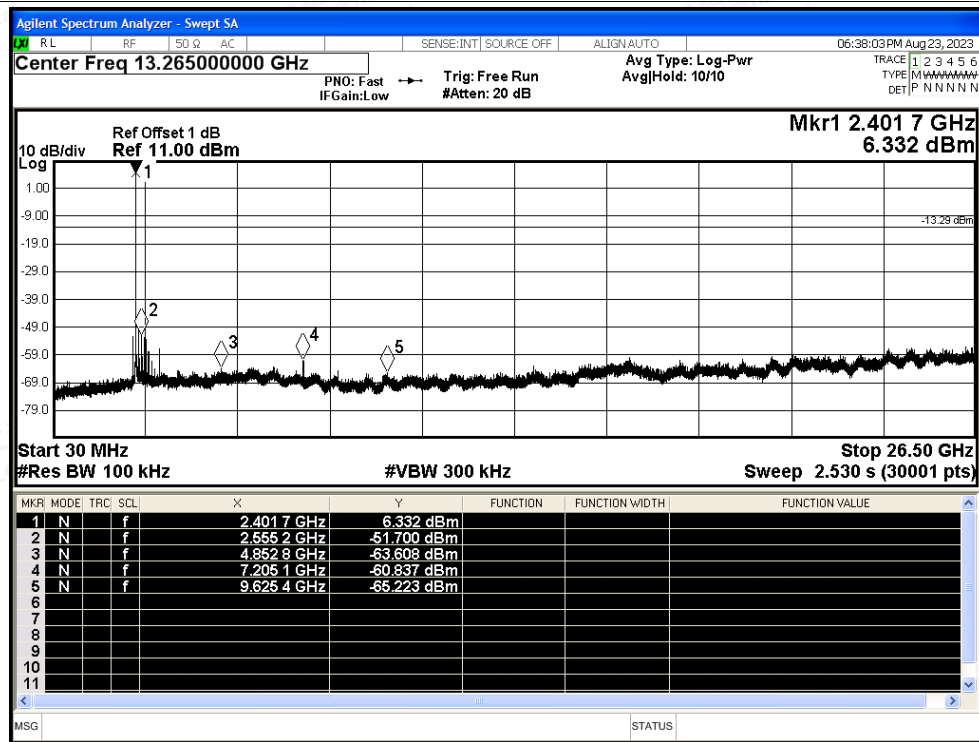
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

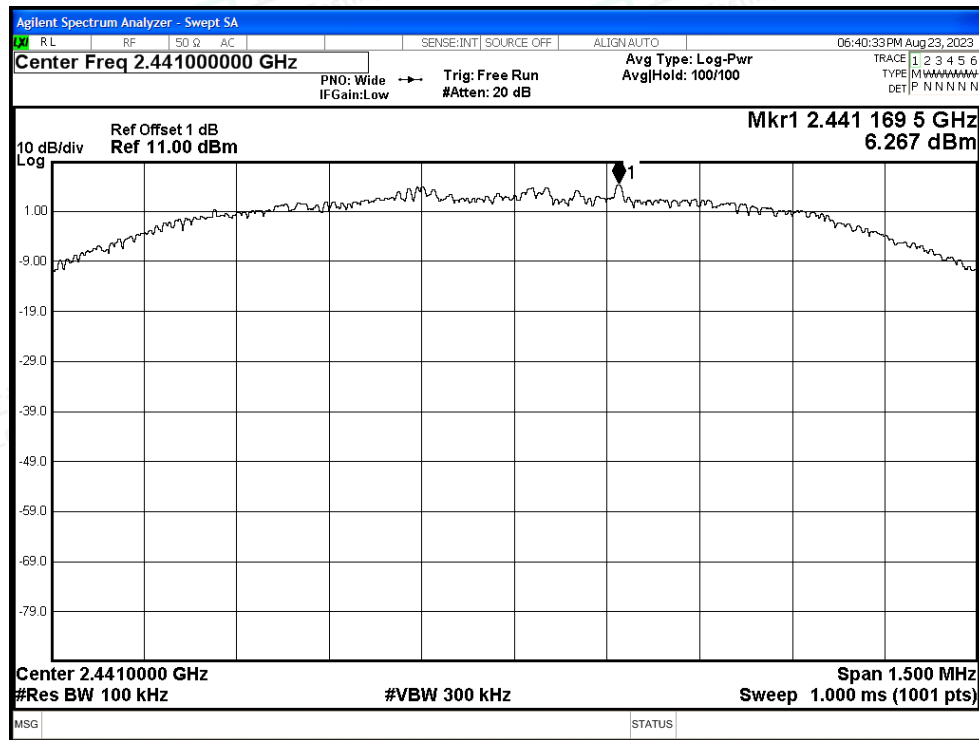
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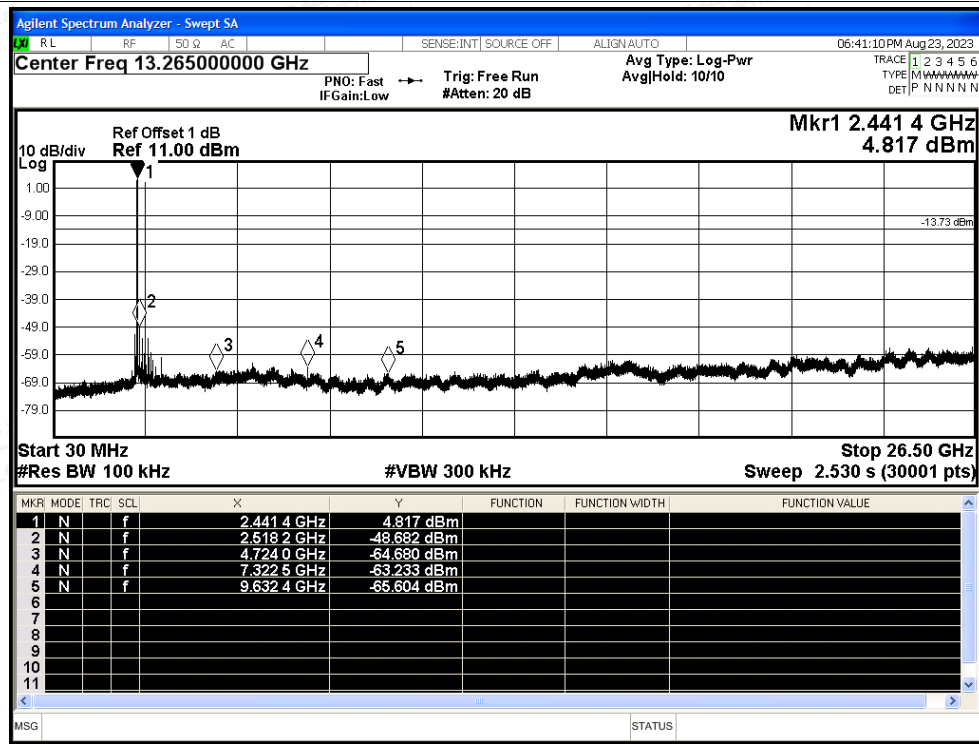
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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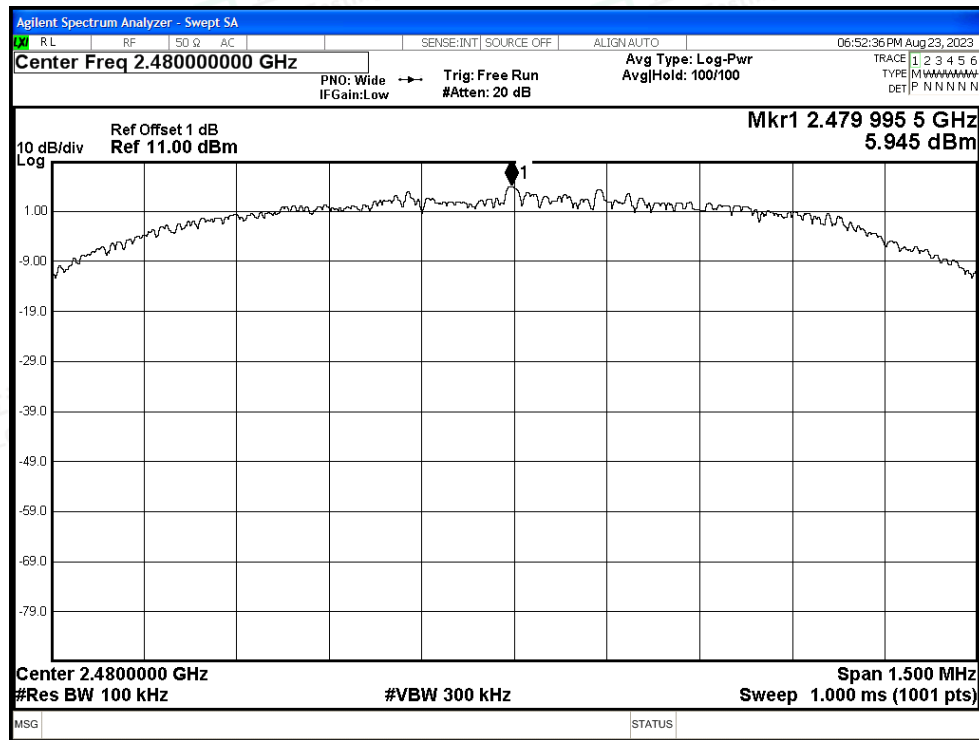
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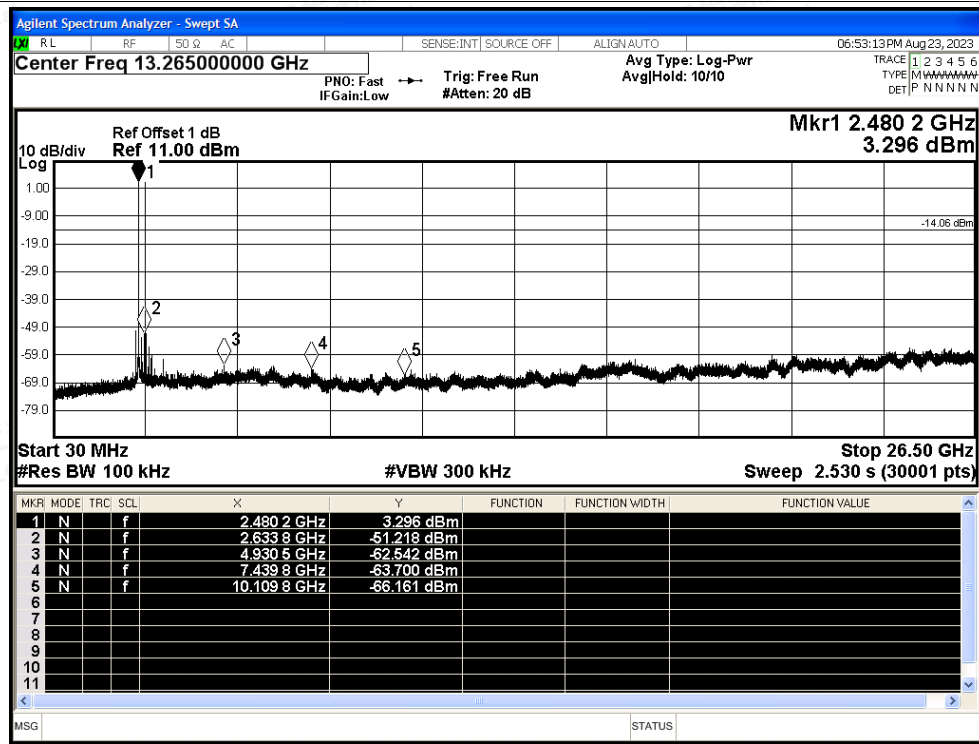
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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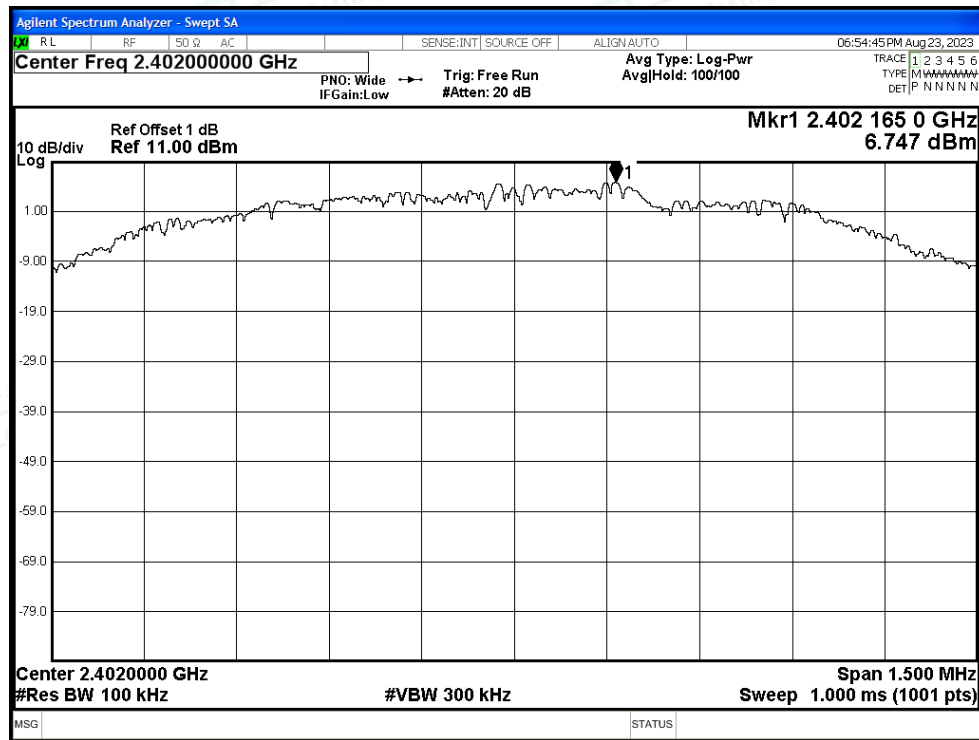
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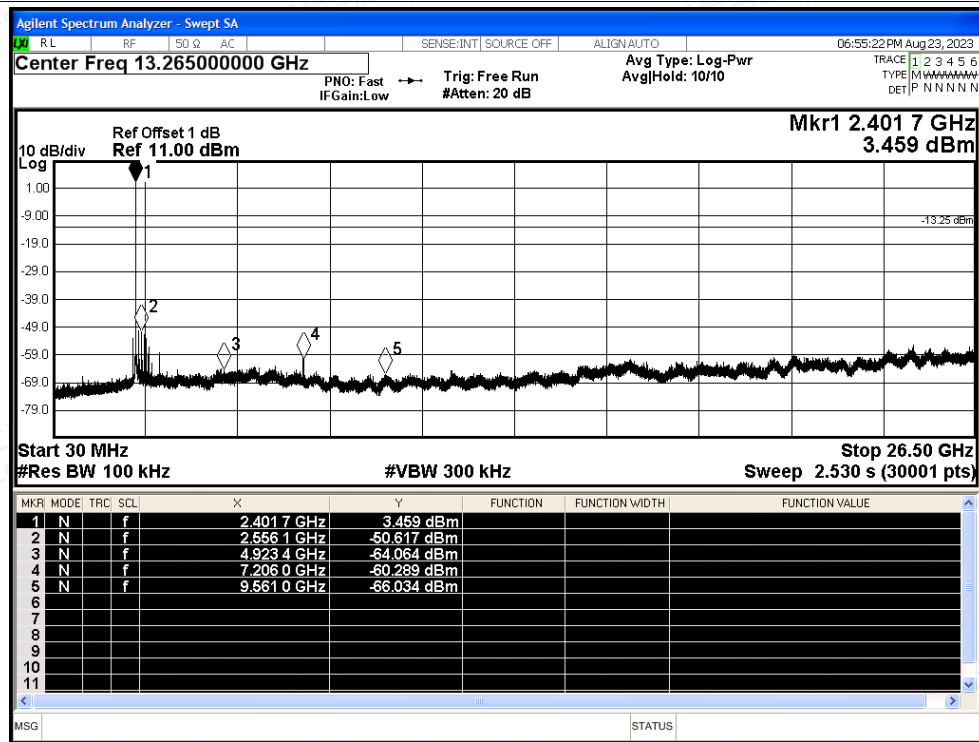
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

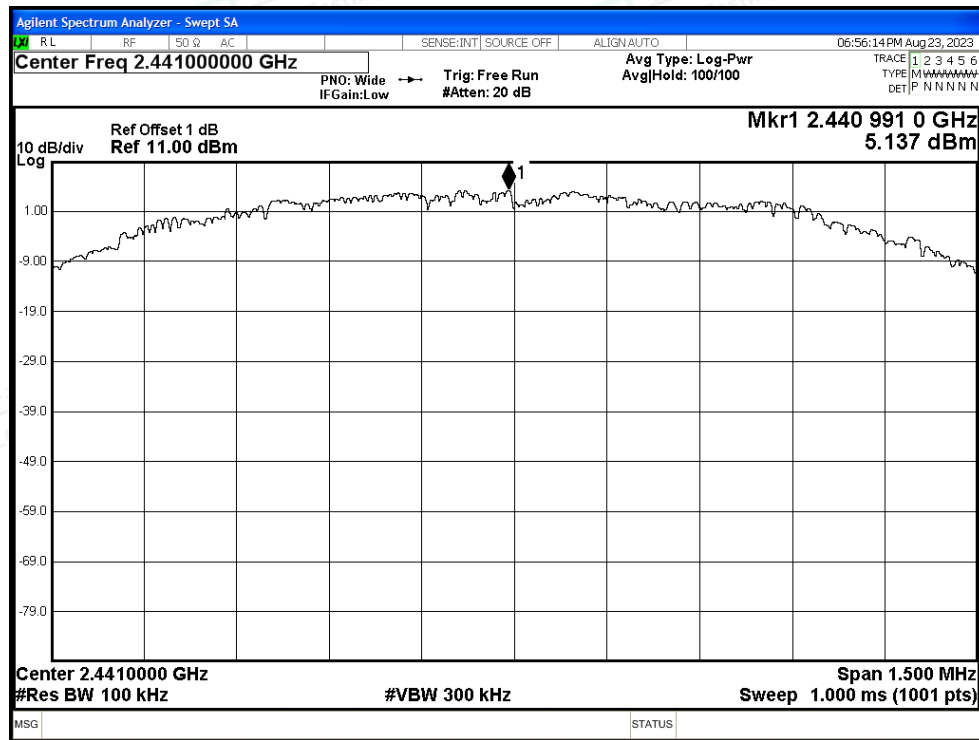
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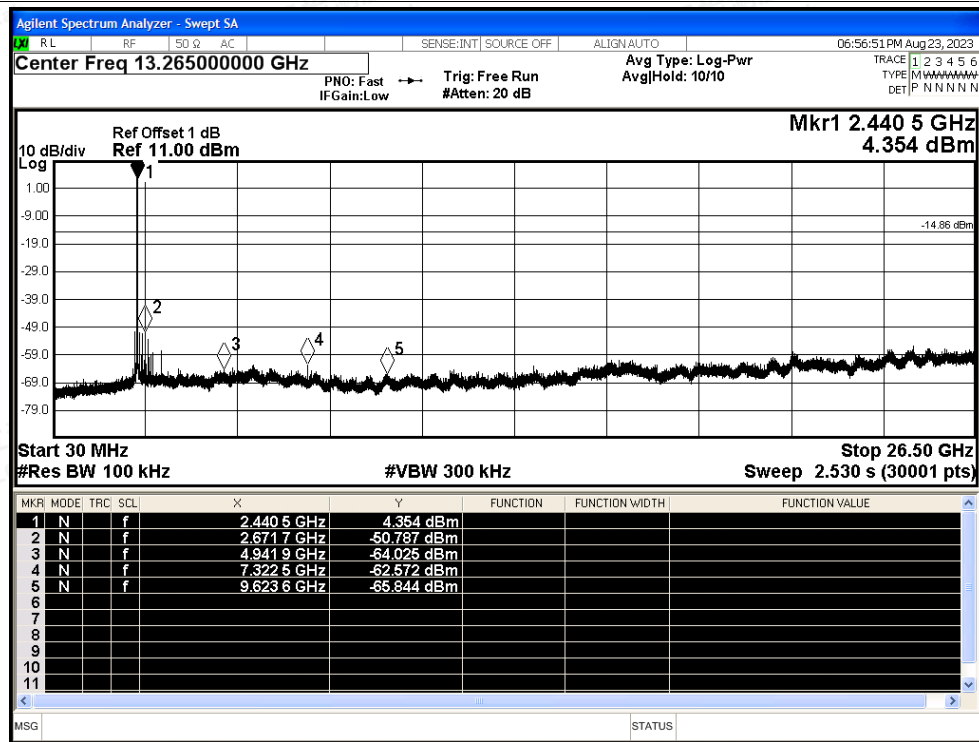
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



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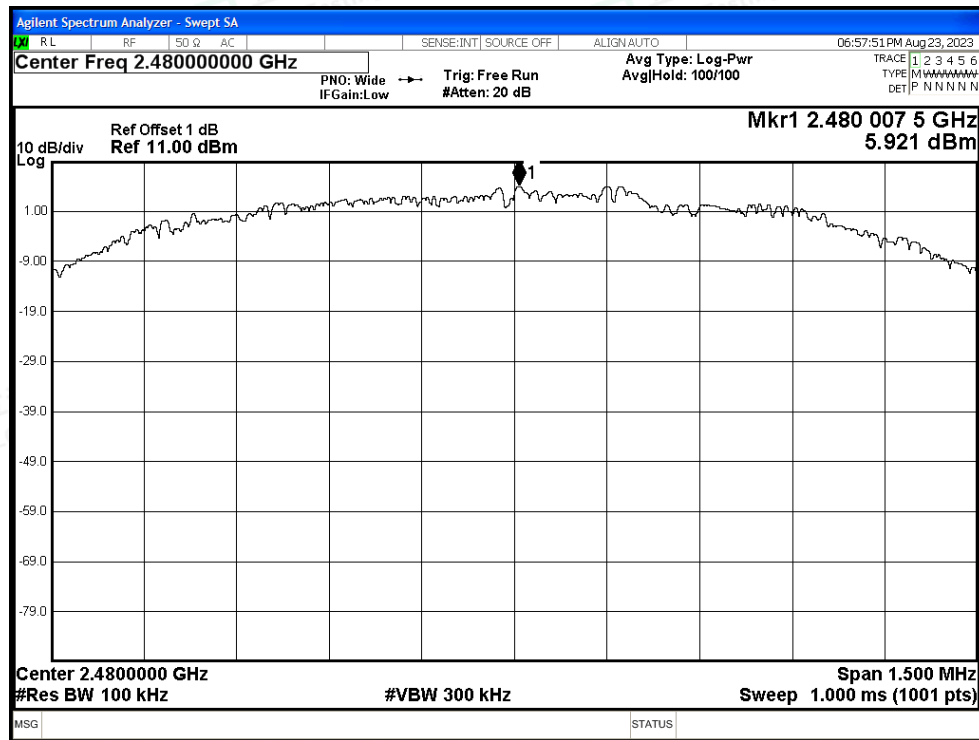
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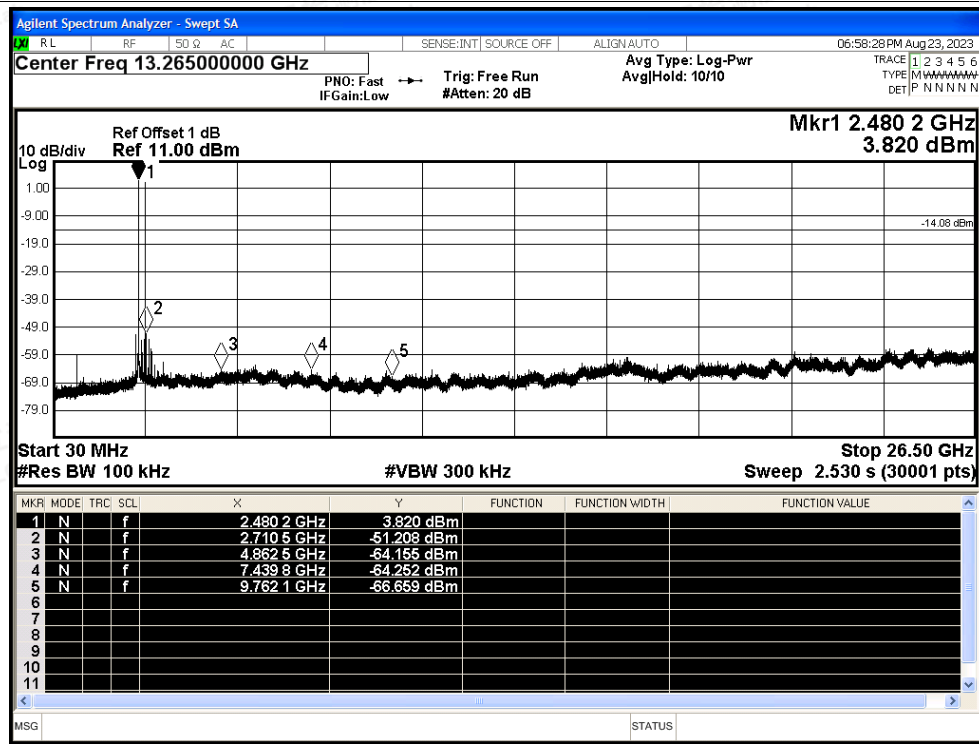
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 Emissions in Restricted Bands

Test Result

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	-51.03	3.46	47.69	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.99	3.46	37.73	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2324.976	-44.19	3.46	54.53	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2325.168	-49.58	3.46	49.14	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.68	3.46	48.04	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.23	3.46	38.49	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.19	3.46	51.53	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.64	3.46	42.08	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.344	-39.83	3.46	58.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.64	3.46	42.08	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.69	3.46	49.03	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.17	3.46	38.55	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.84	3.46	46.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.89	3.46	37.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2325.648	-44.19	3.46	54.53	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2325.264	-51.28	3.46	47.44	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.46	3.46	49.26	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.41	3.46	40.31	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-44.2	3.46	54.52	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.67	3.46	44.05	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.888	-40.1	3.46	58.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.68	-54.53	3.46	44.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.08	3.46	50.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.59	3.46	40.13	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.61	3.46	46.11	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.72	3.46	38	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.224	-45.27	3.46	53.45	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2325.264	-51.39	3.46	47.33	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-45.96	3.46	52.76	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.96	3.46	40.76	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-43.15	3.46	55.57	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.71	3.46	45.01	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.376	-40.48	3.46	58.24	Peak	74	Pass



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NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.71	3.46	45.01	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.5	3.46	49.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.89	3.46	39.83	Average	54	Pass

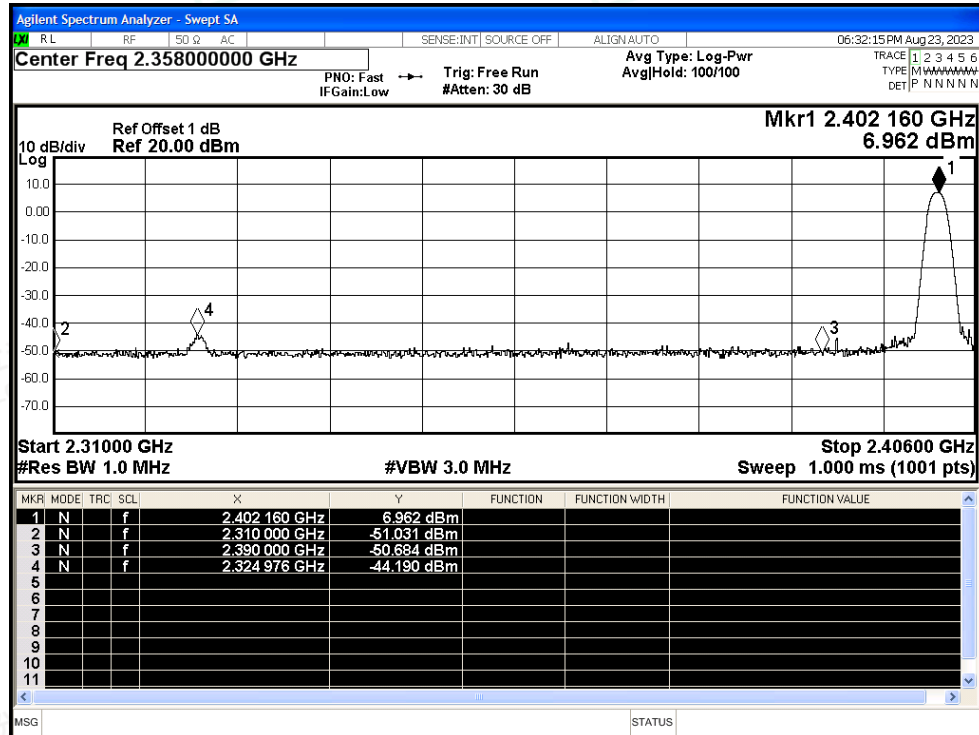


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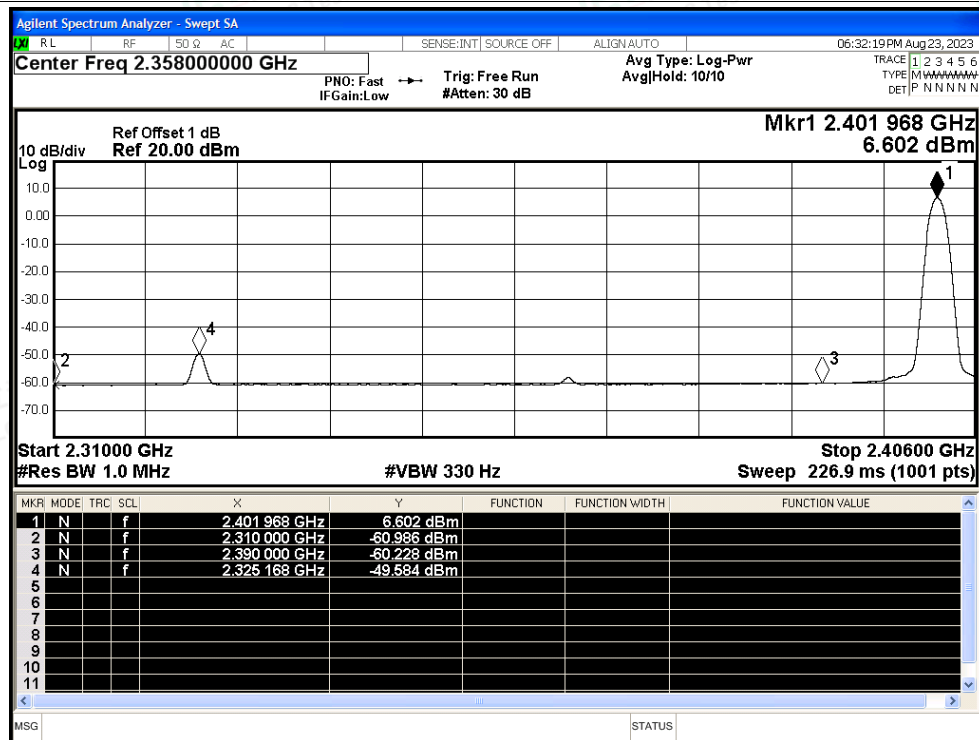


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

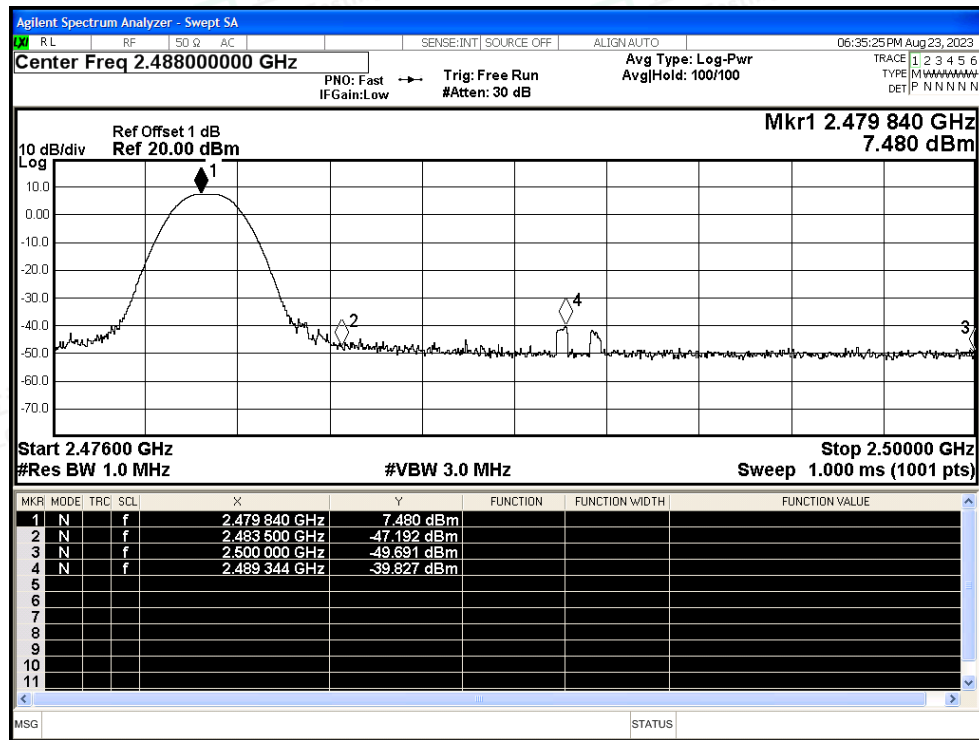
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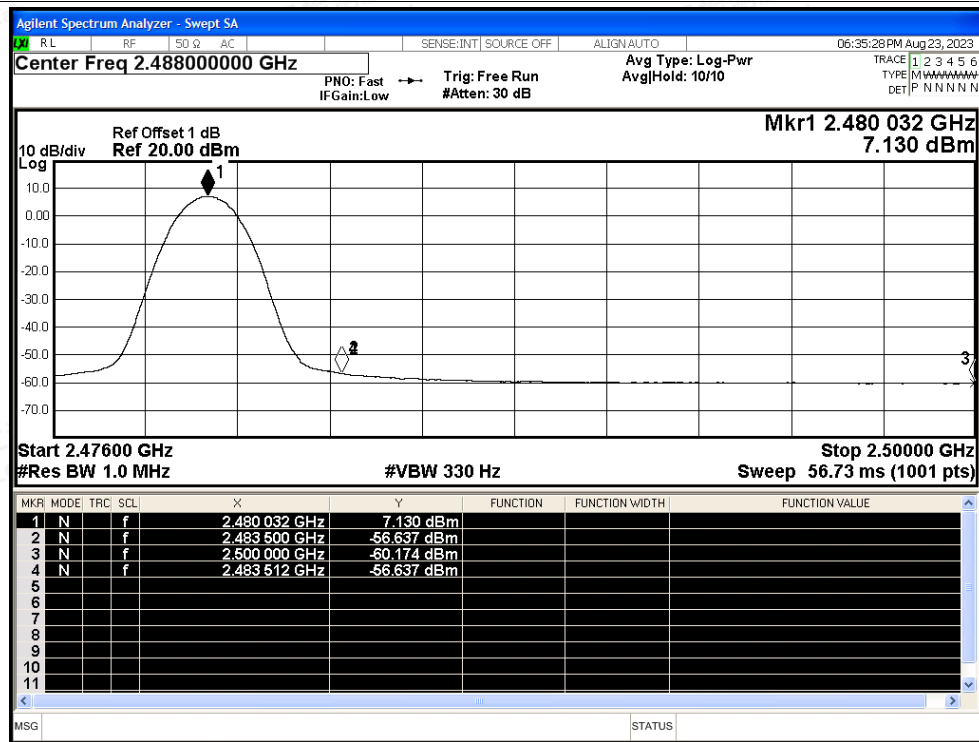
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

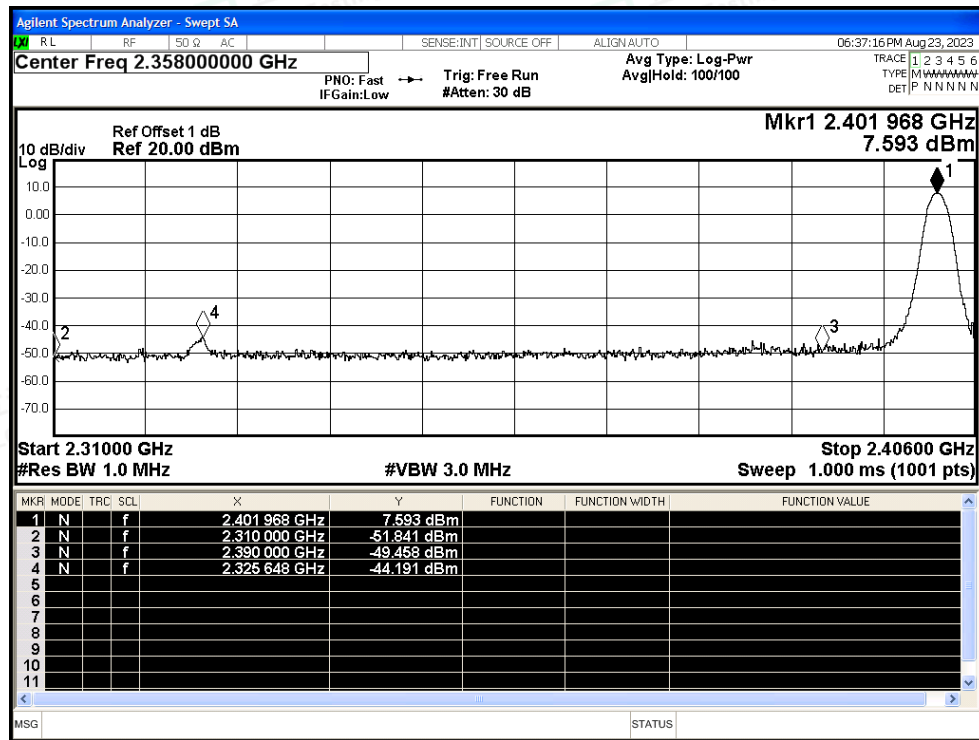
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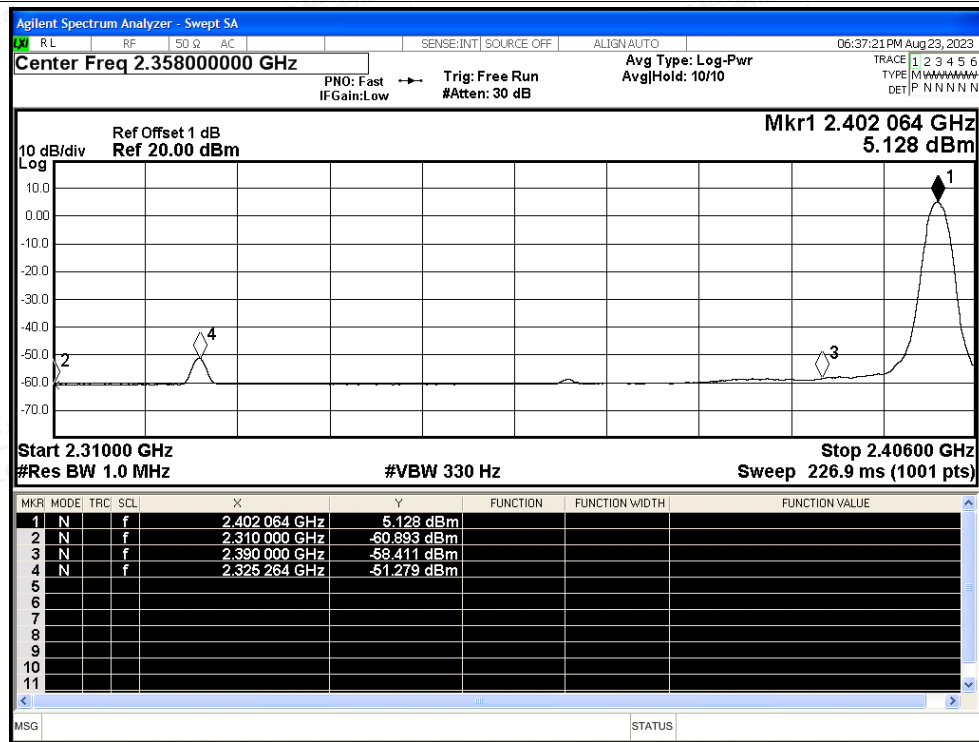
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

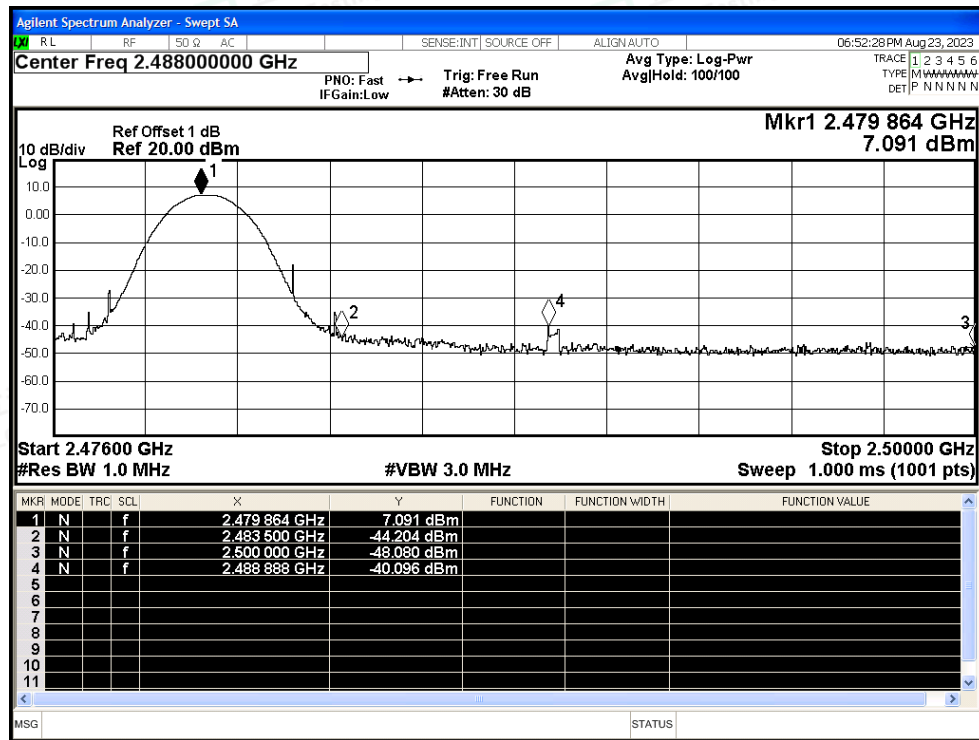
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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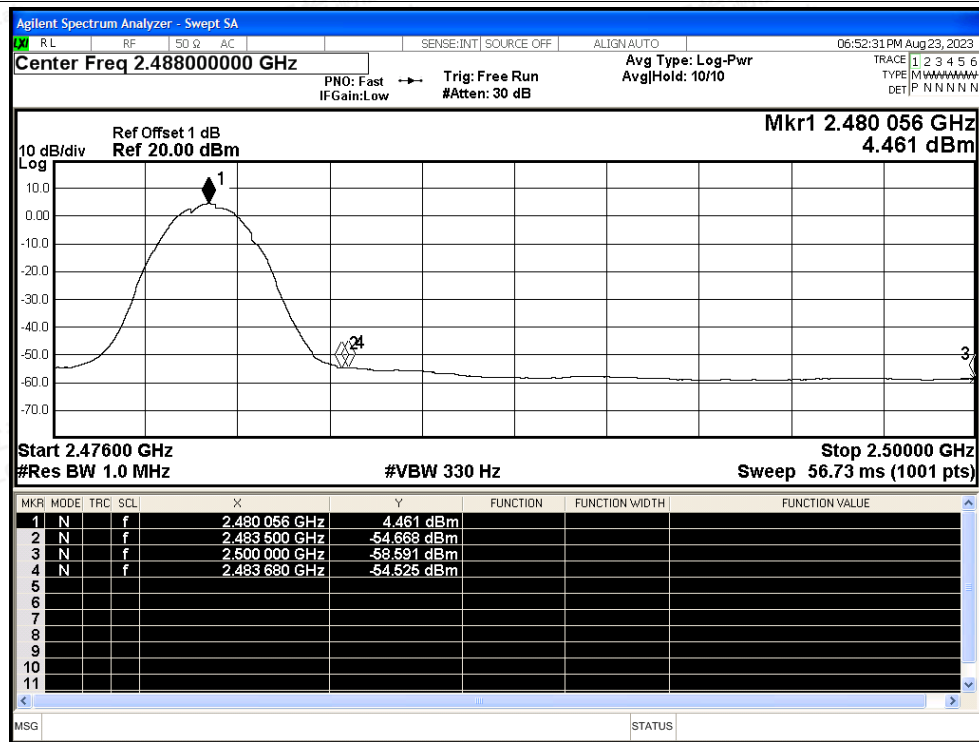
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

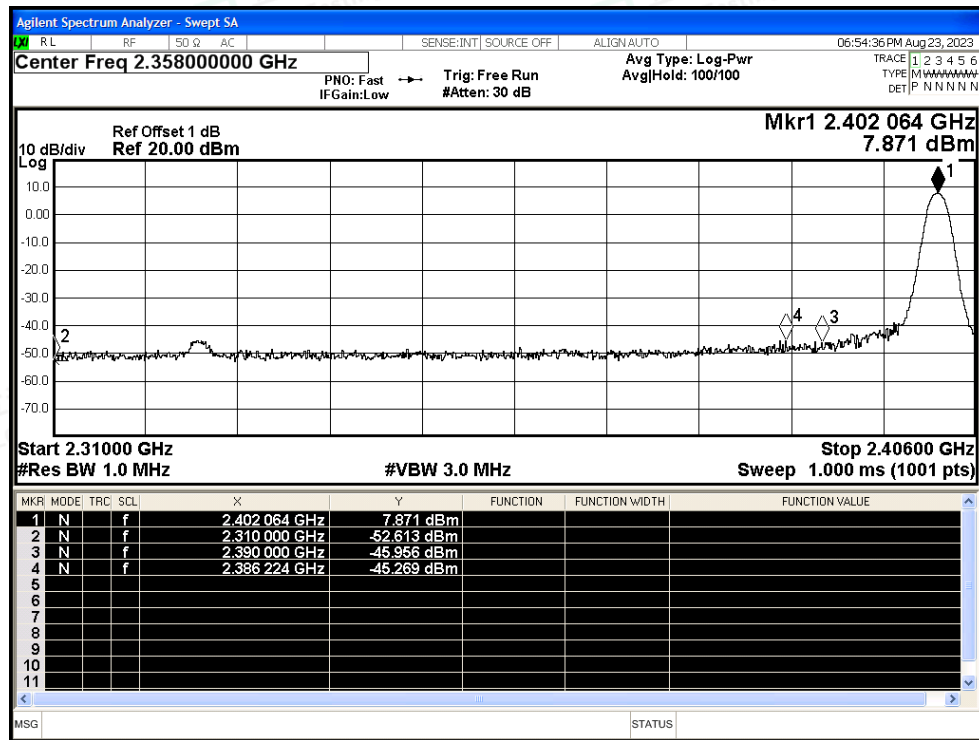
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Baoan District, Shenzhen, 518000, China

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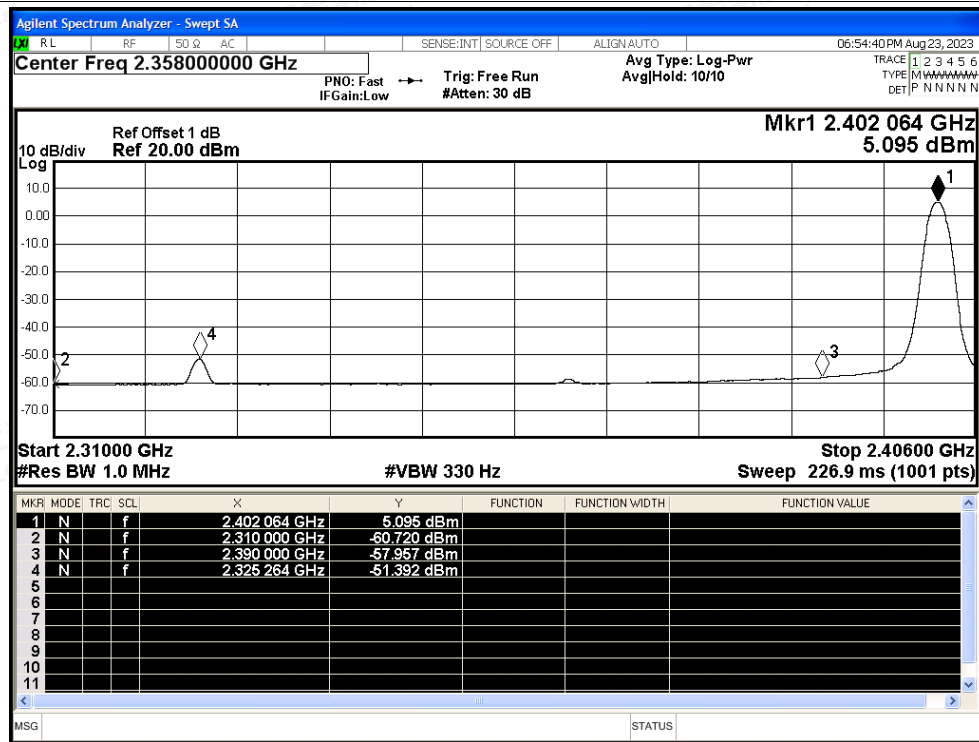
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

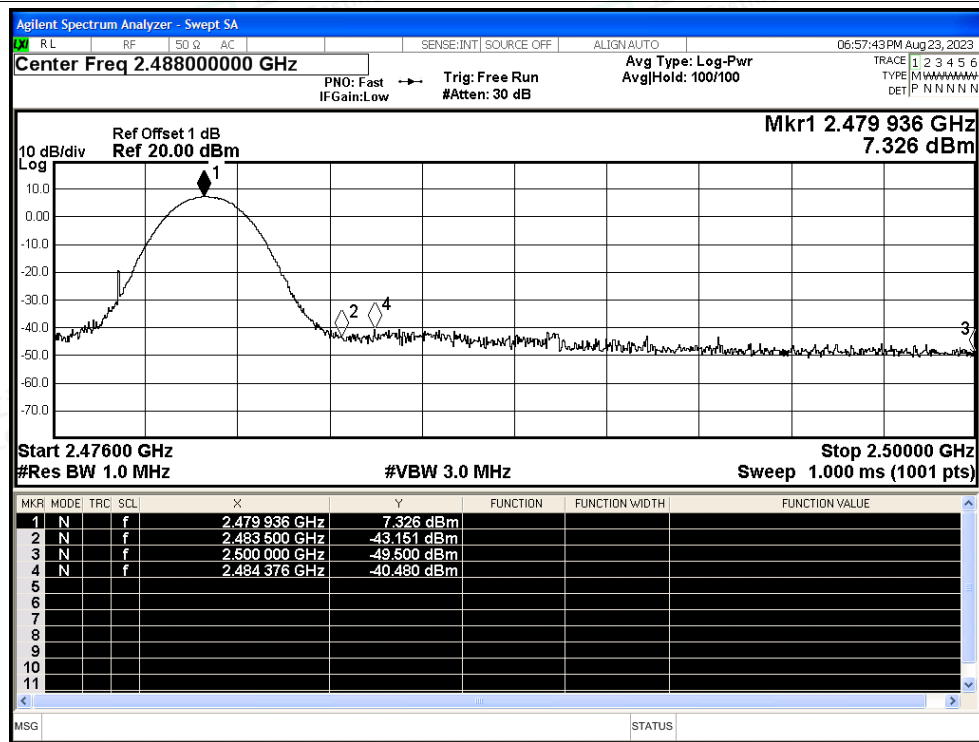
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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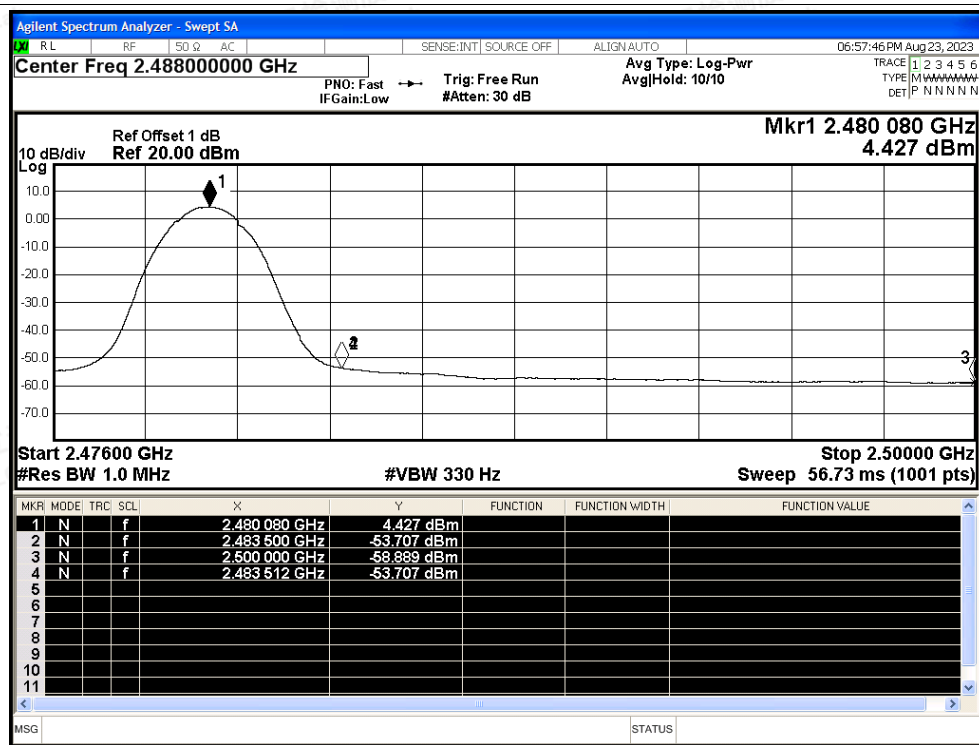
Scan code to check authenticity



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



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



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