



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Earbuds

Test Model: EP03

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.959	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.949	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.282	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.291	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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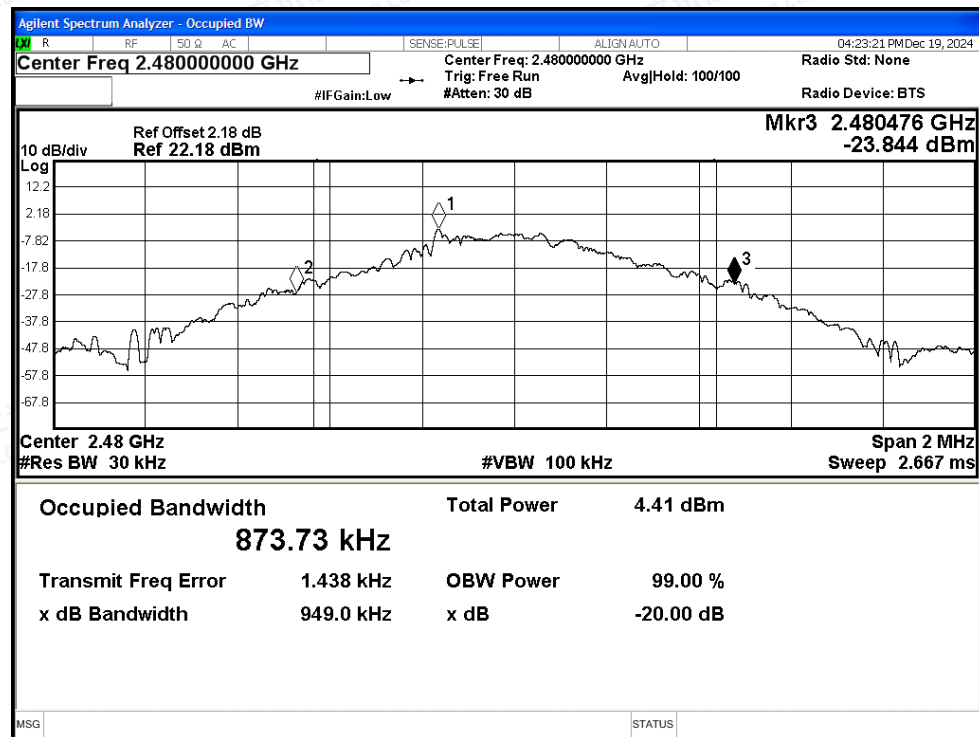
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

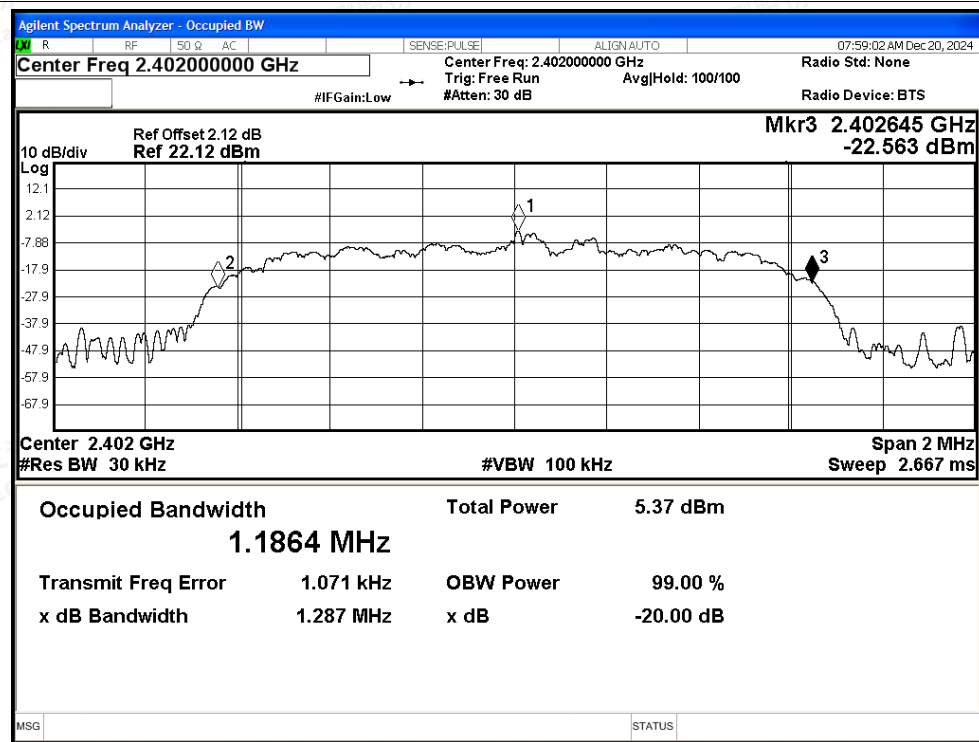
Scan code to check authenticity



-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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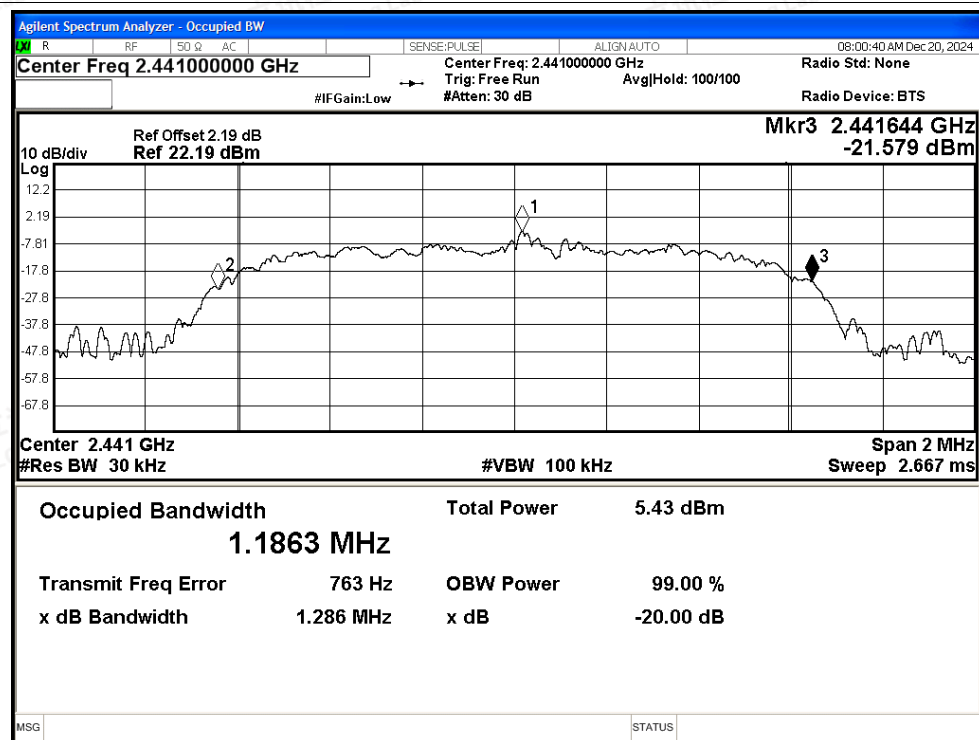
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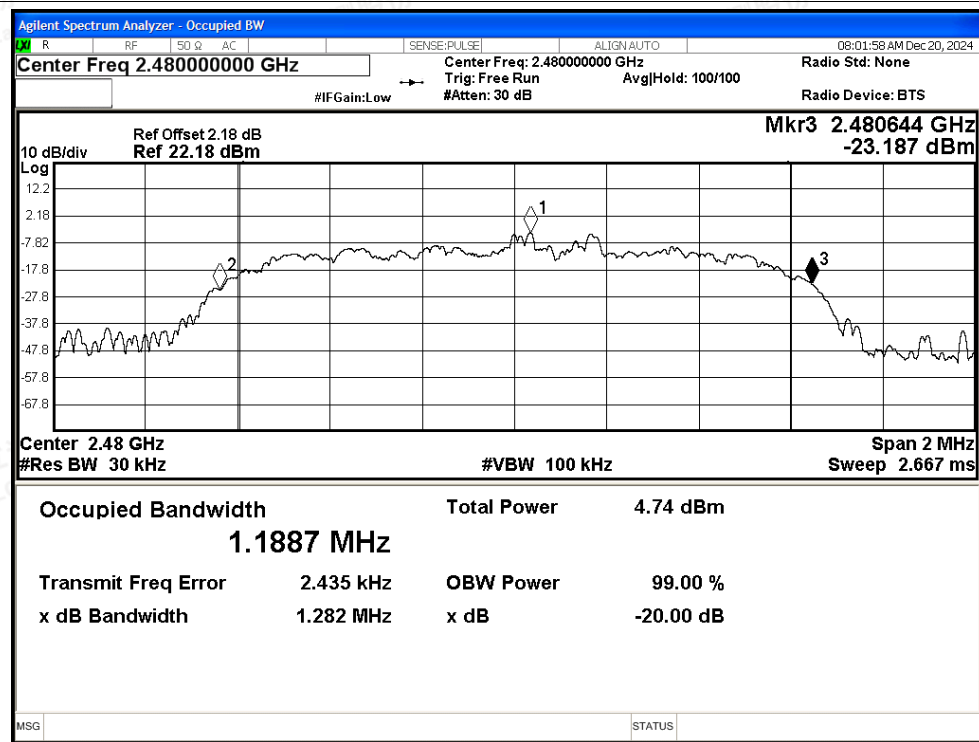
Scan code to check authenticity



-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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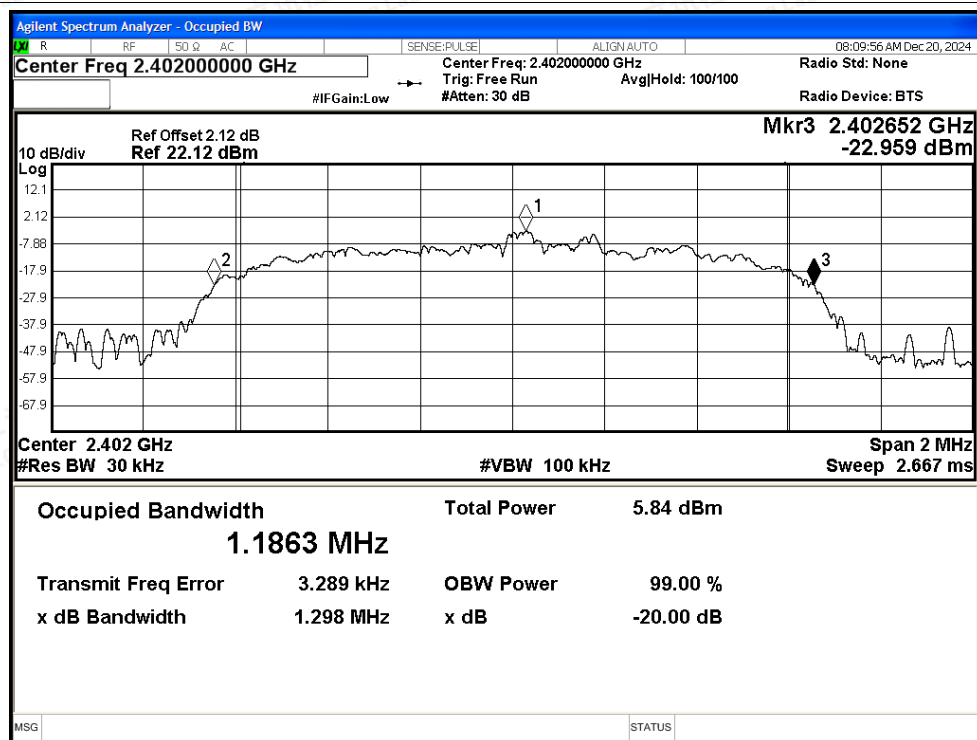
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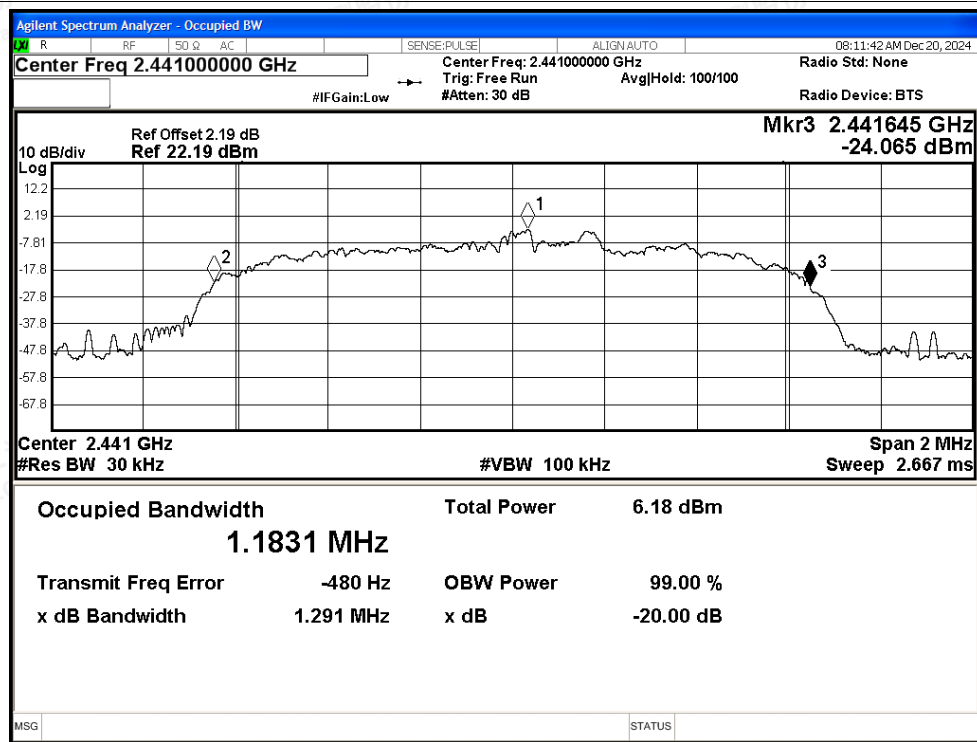
Scan code to check authenticity



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

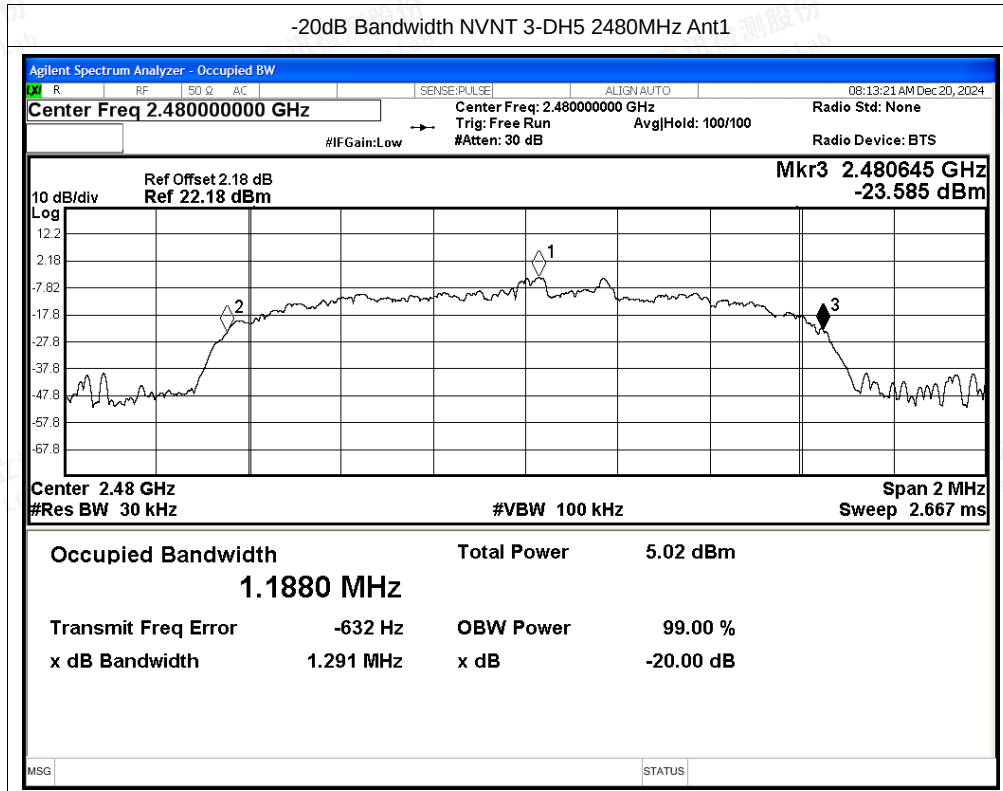


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A.2 Maximum Peak Conducted Output Power

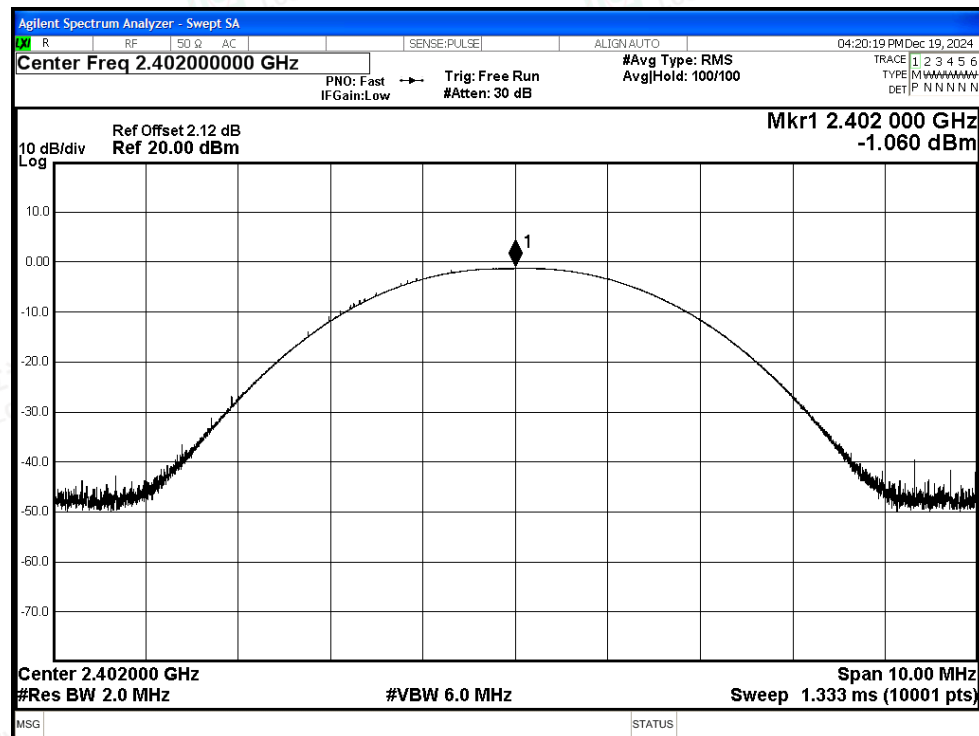
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.06	21	Pass
NVNT	1-DH5	2441	Ant1	-0.69	21	Pass
NVNT	1-DH5	2480	Ant1	-1.86	21	Pass
NVNT	2-DH5	2402	Ant1	0.98	21	Pass
NVNT	2-DH5	2441	Ant1	1.31	21	Pass
NVNT	2-DH5	2480	Ant1	0.23	21	Pass
NVNT	3-DH5	2402	Ant1	1.43	21	Pass
NVNT	3-DH5	2441	Ant1	1.66	21	Pass
NVNT	3-DH5	2480	Ant1	0.6	21	Pass



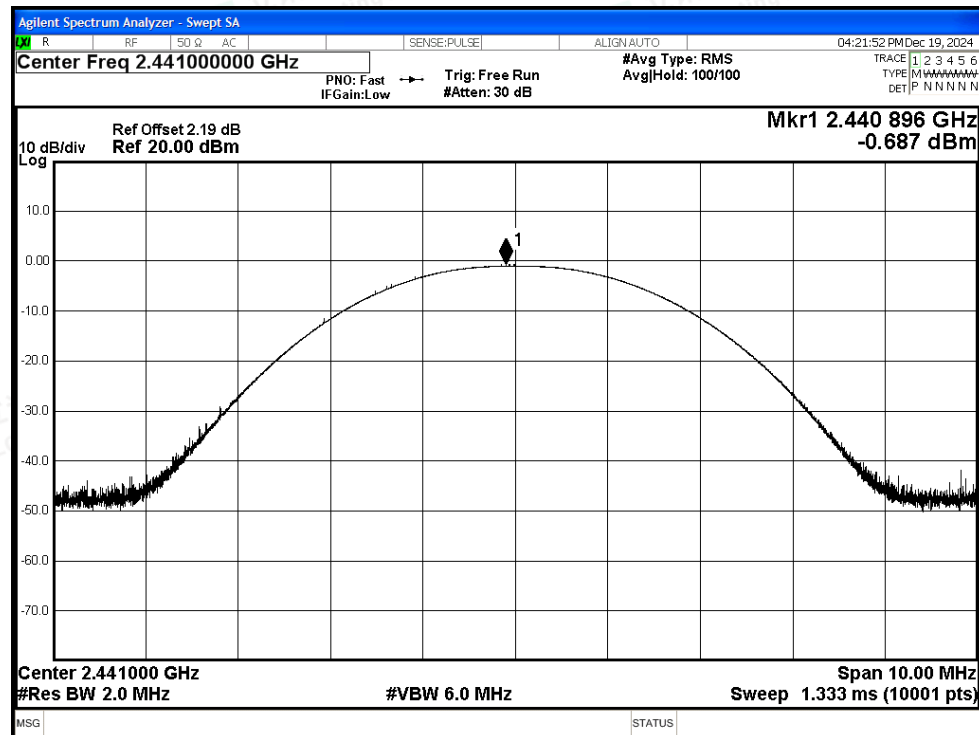


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

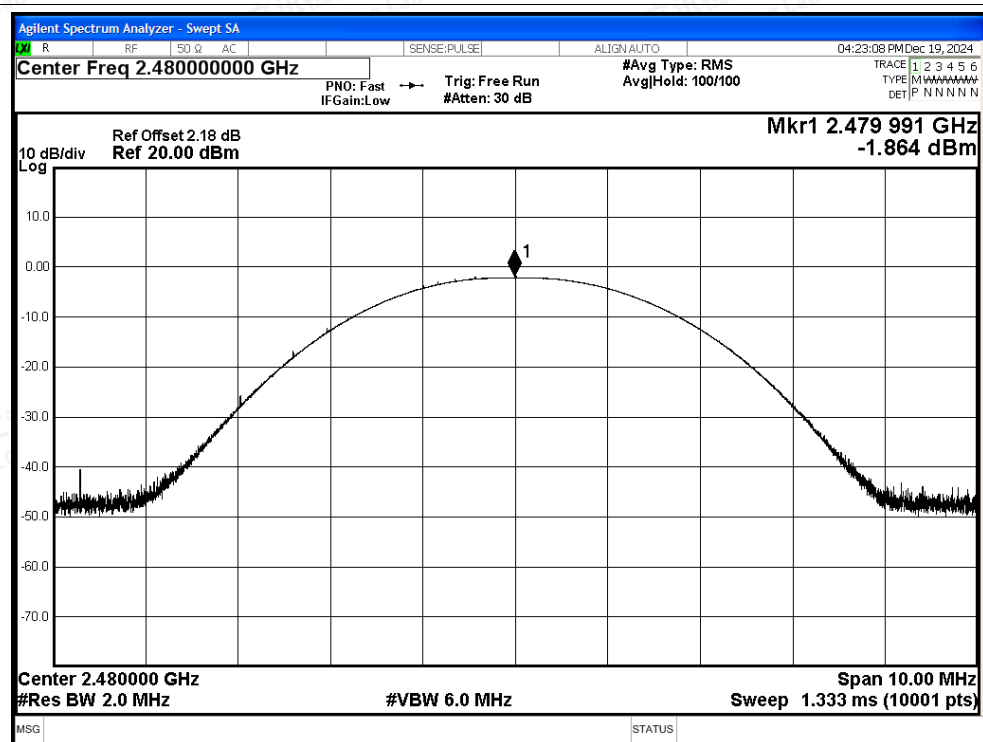


Power NVNT 1-DH5 2441MHz Ant1

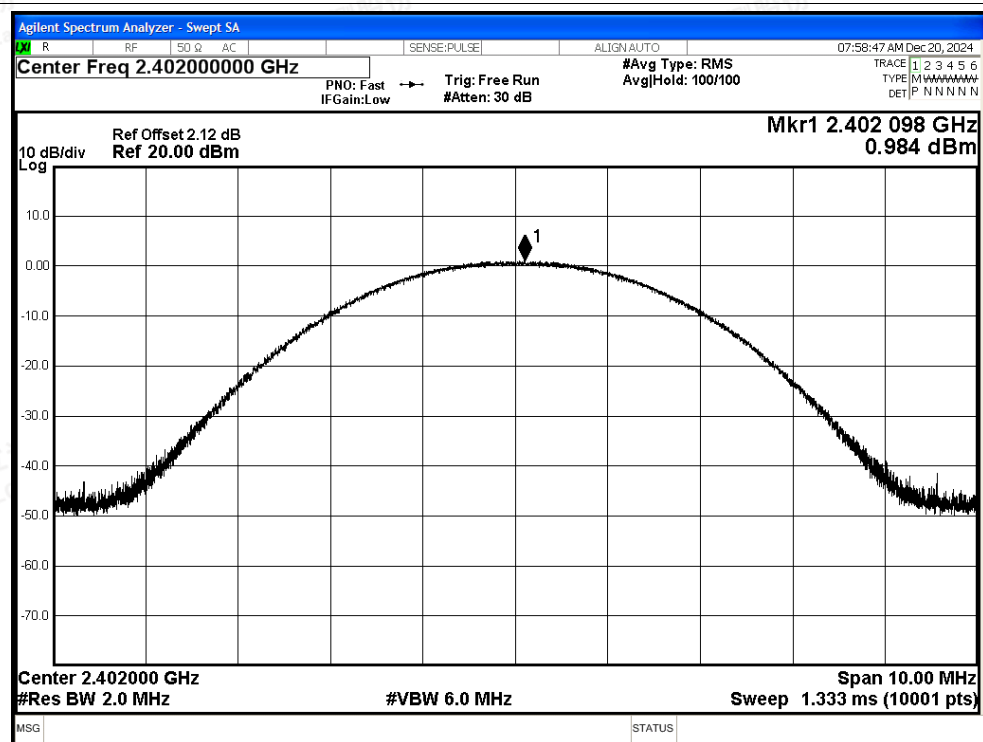




Power NVNT 1-DH5 2480MHz Ant1

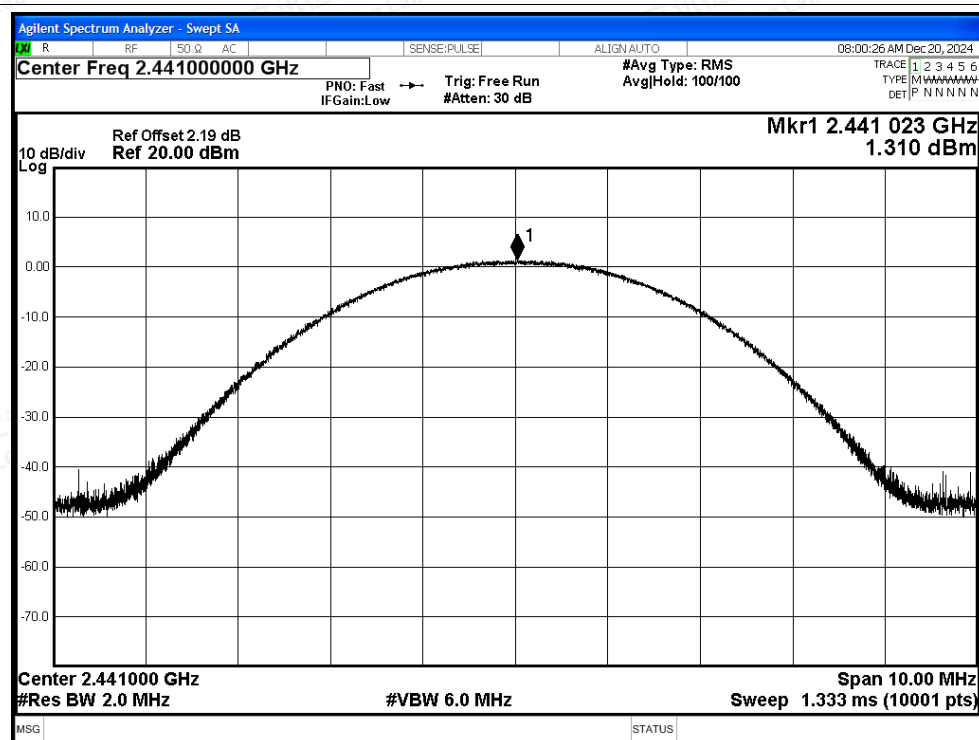


Power NVNT 2-DH5 2402MHz Ant1

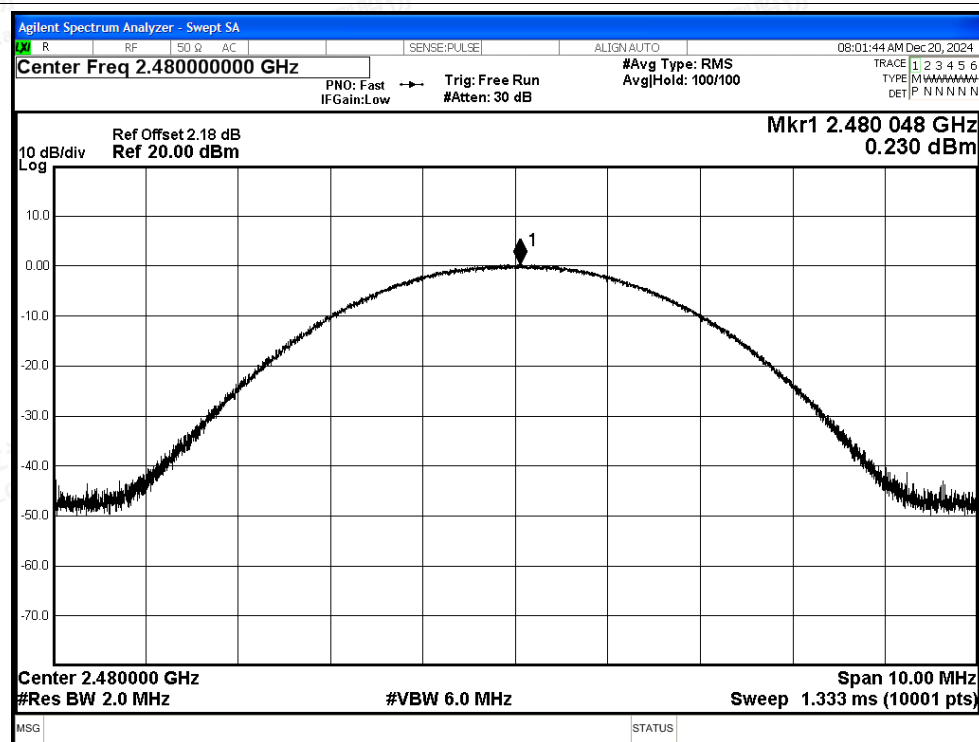


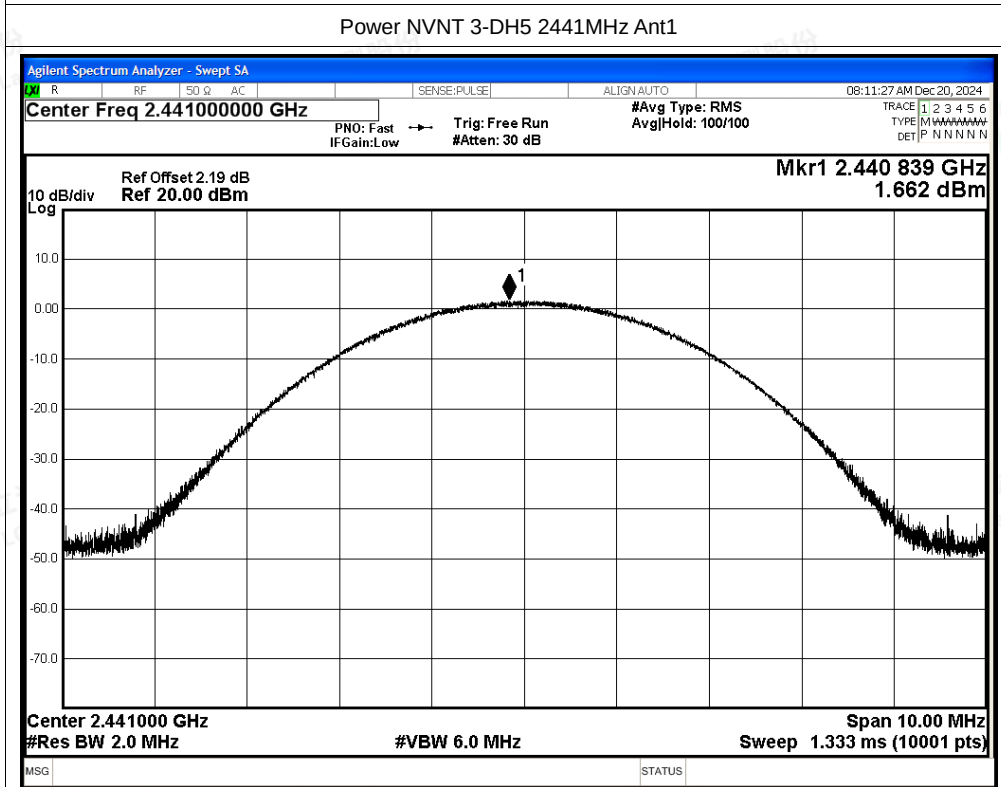
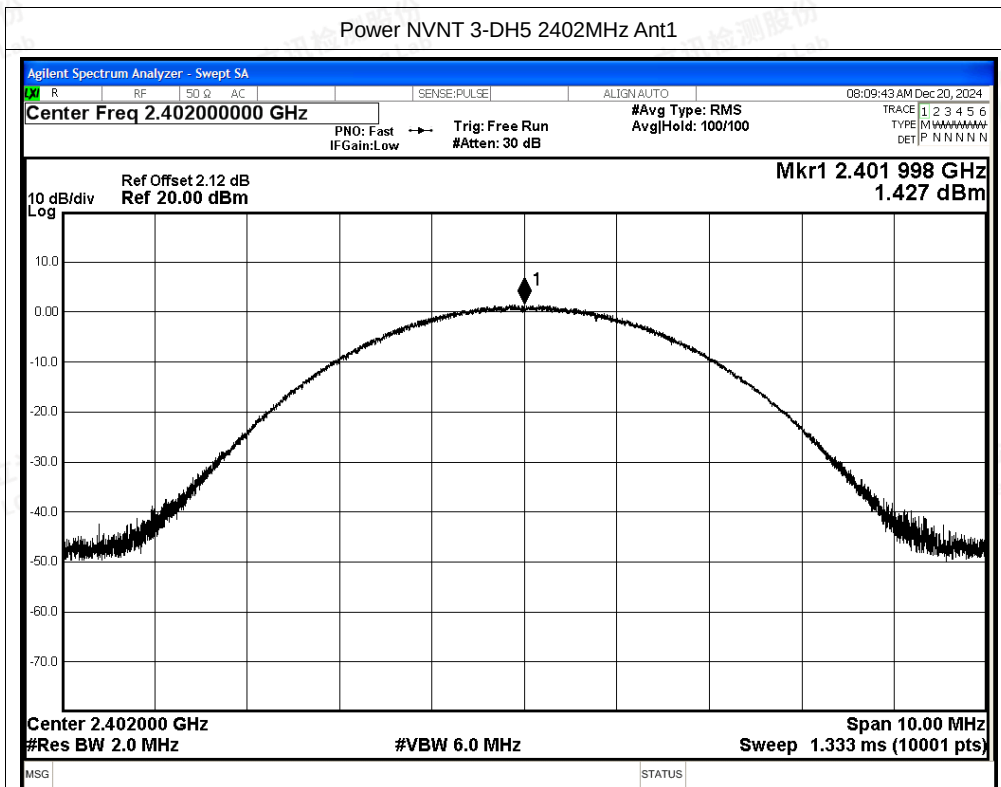


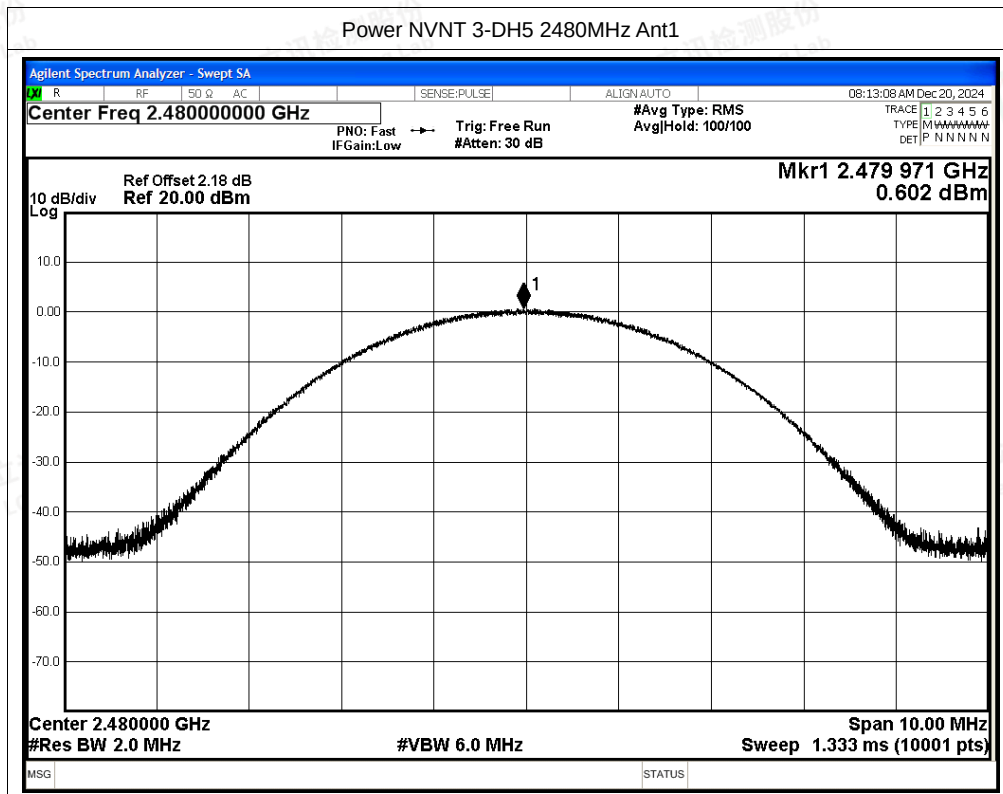
Power NVNT 2-DH5 2441MHz Ant1



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	2402.054	2402.838	0.784	0.639	Pass
NVNT	2-DH5	Ant1	2402.03	2403.022	0.992	0.858	Pass
NVNT	3-DH5	Ant1	2402	2403.002	1.002	0.865	Pass

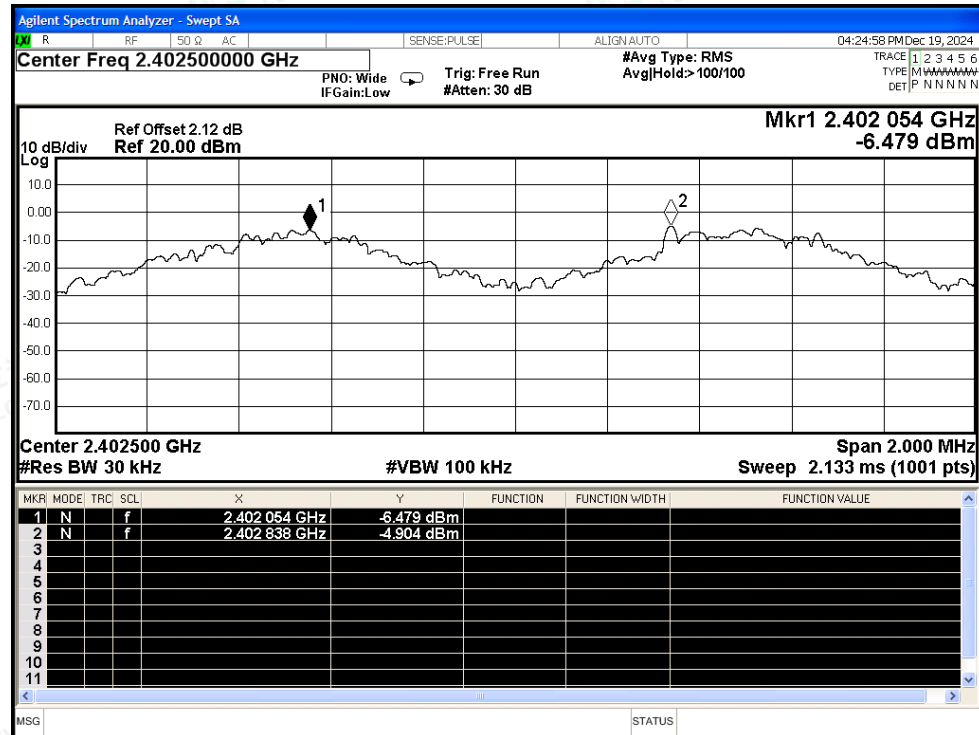


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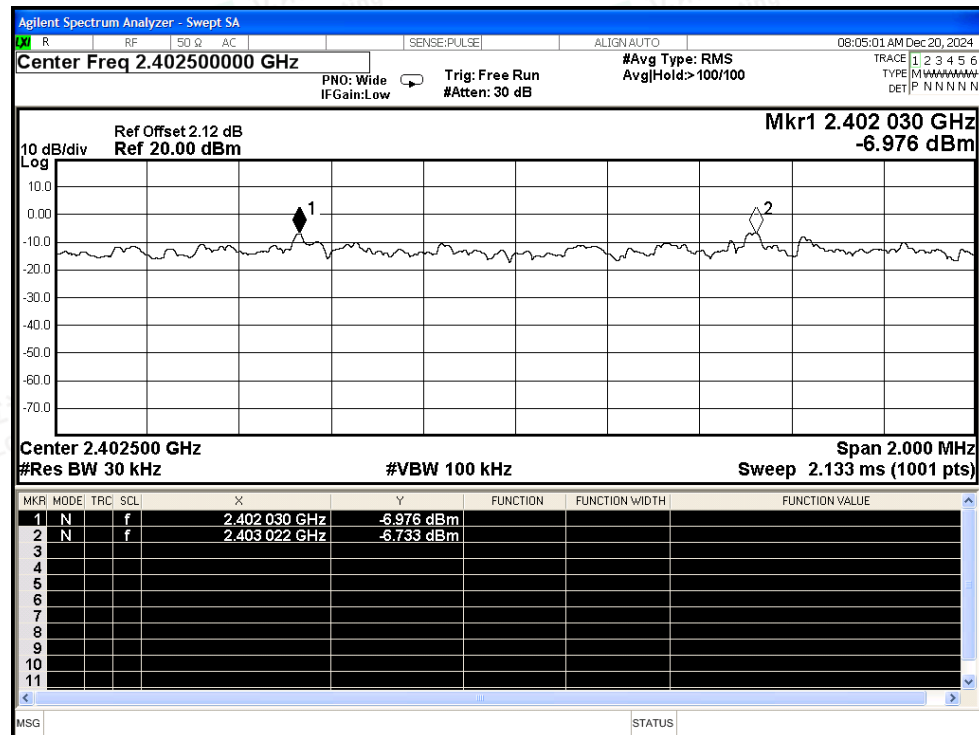


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

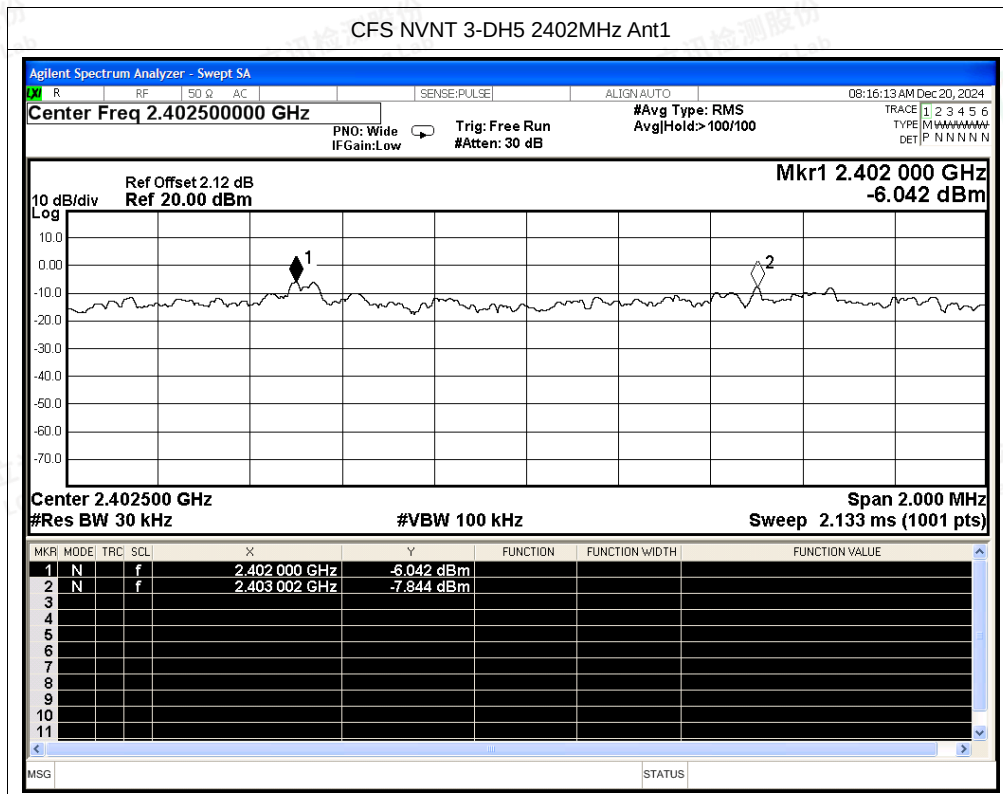


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A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	352.11	121	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	307.188	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	309.979	107	31600	400	Pass

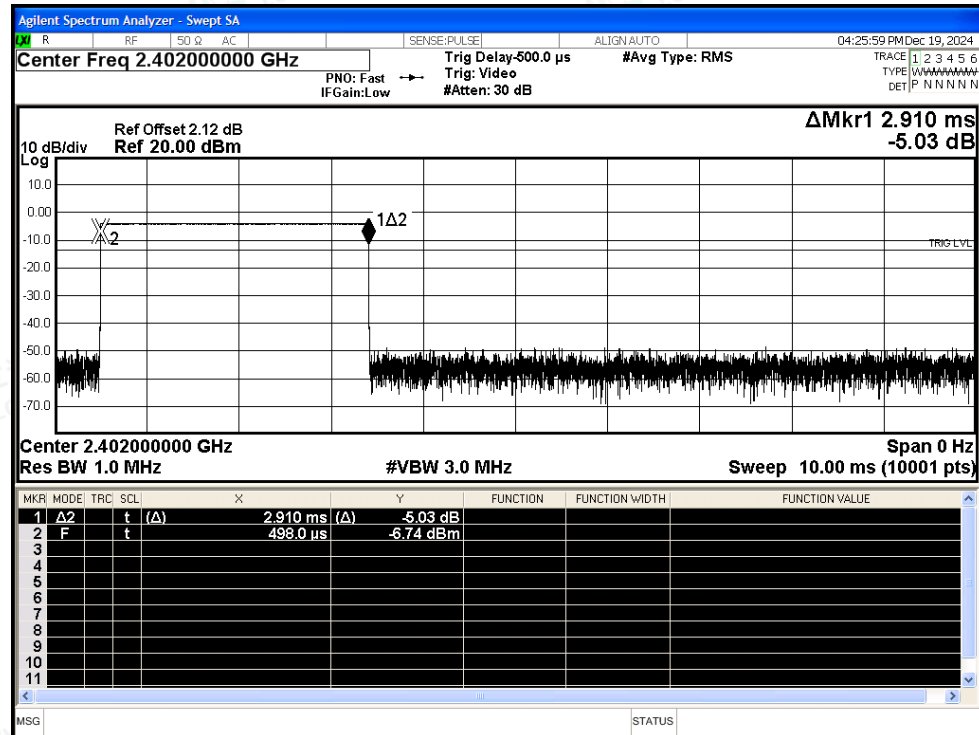


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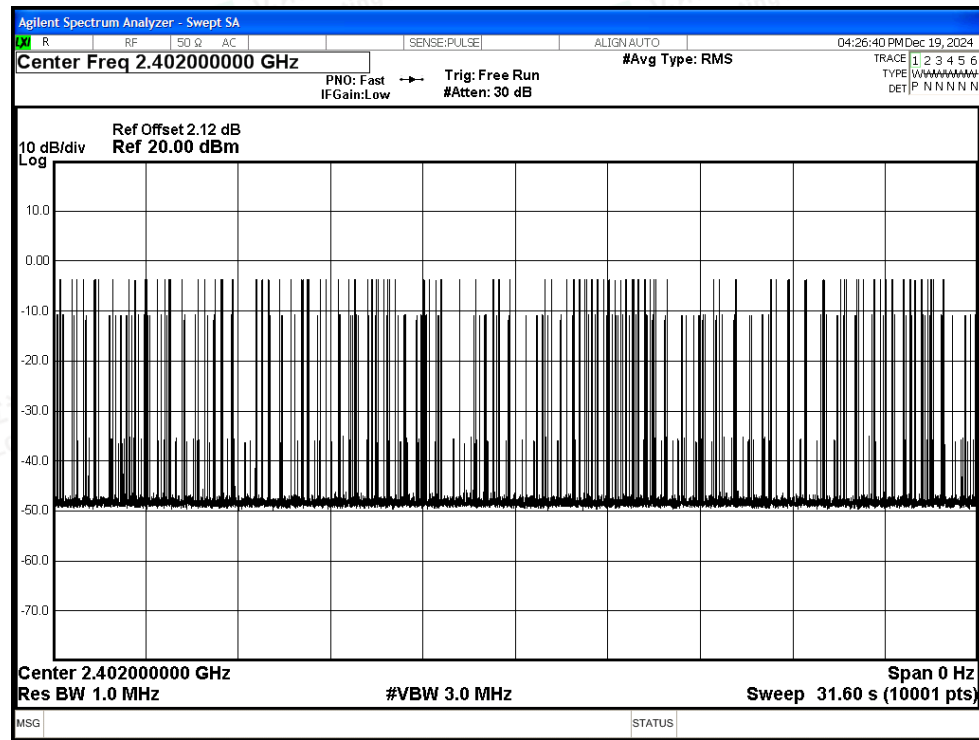


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

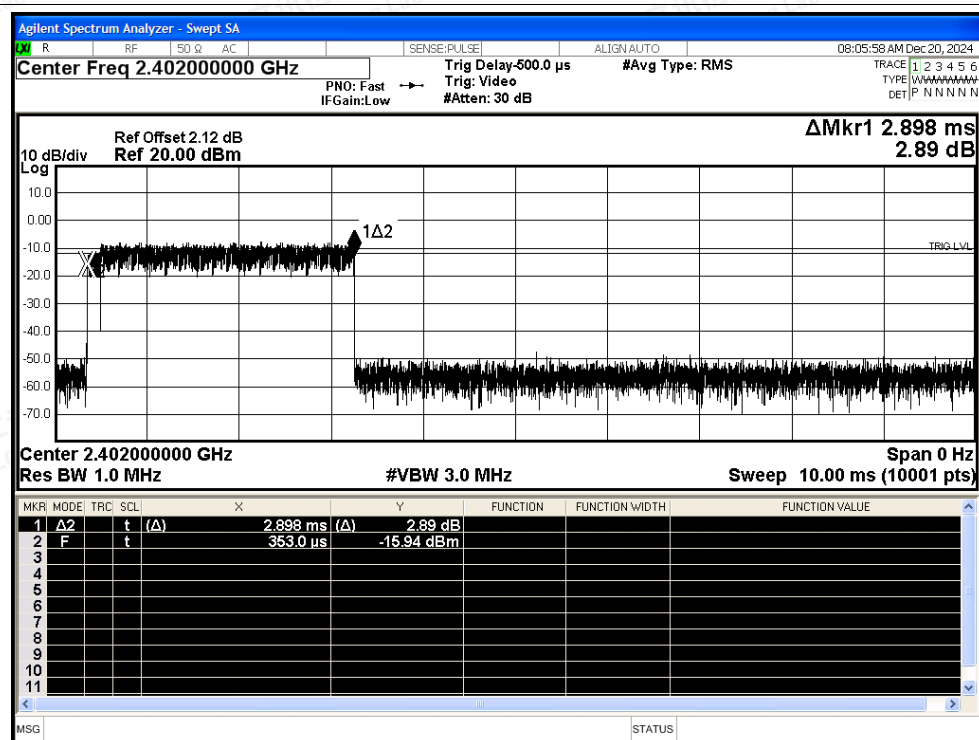
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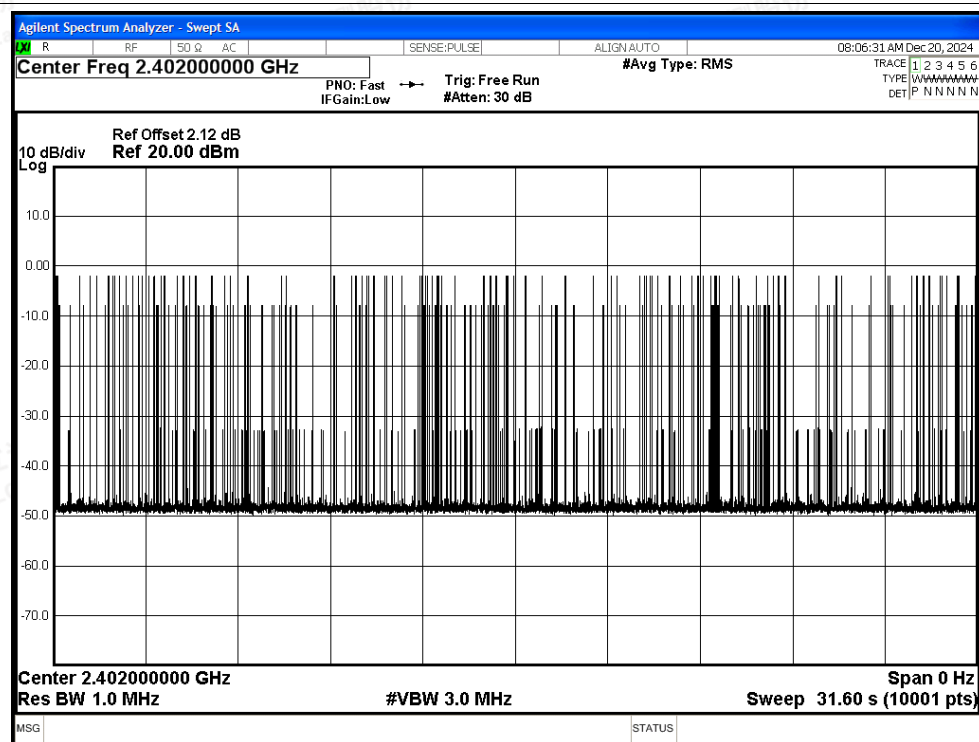
Scan code to check authenticity



Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

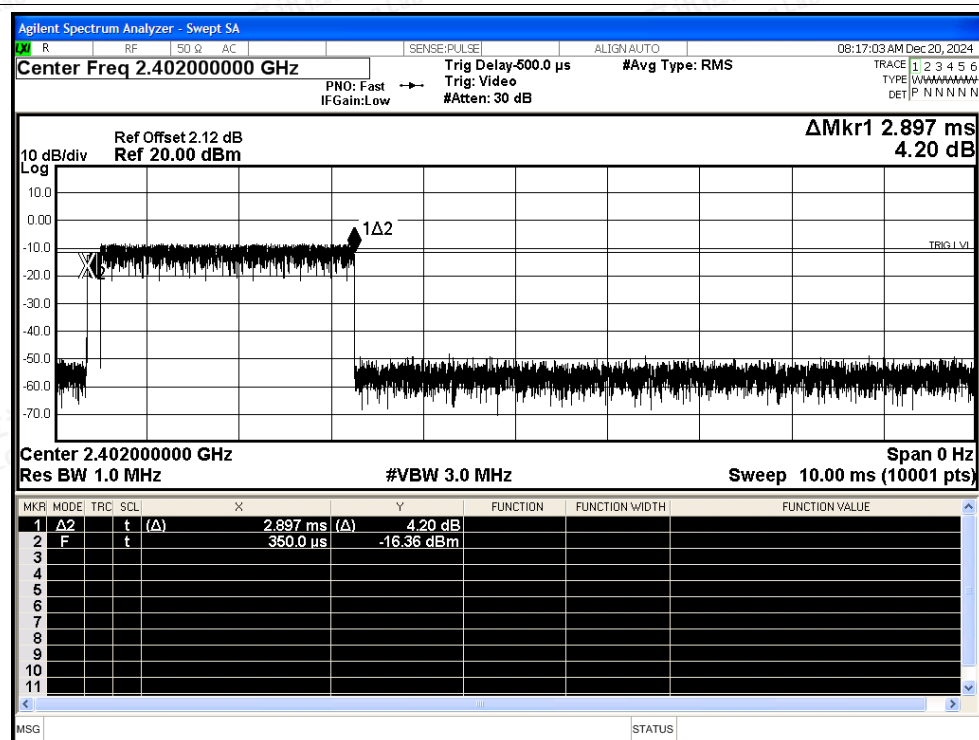
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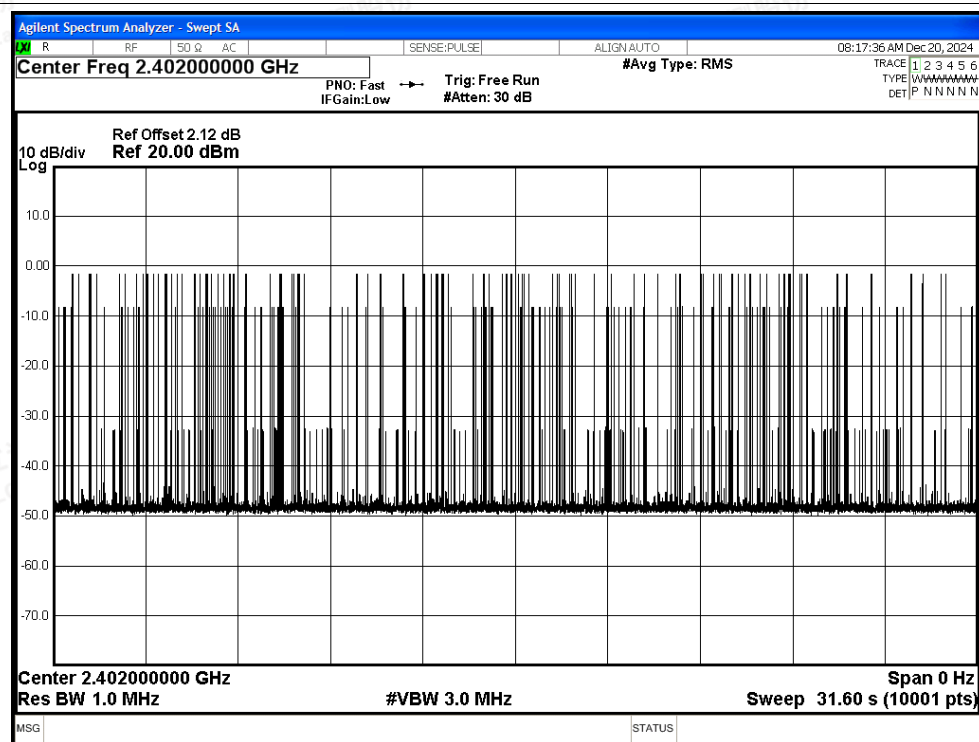
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



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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
NVNT	3-DH5	Ant1	79	15	Pass

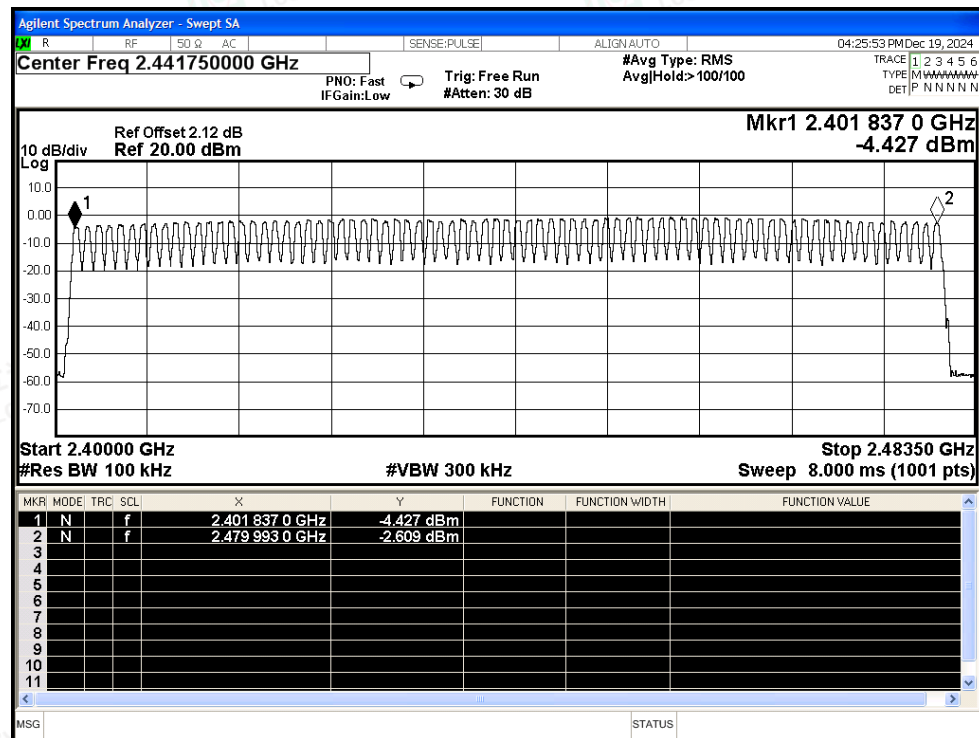


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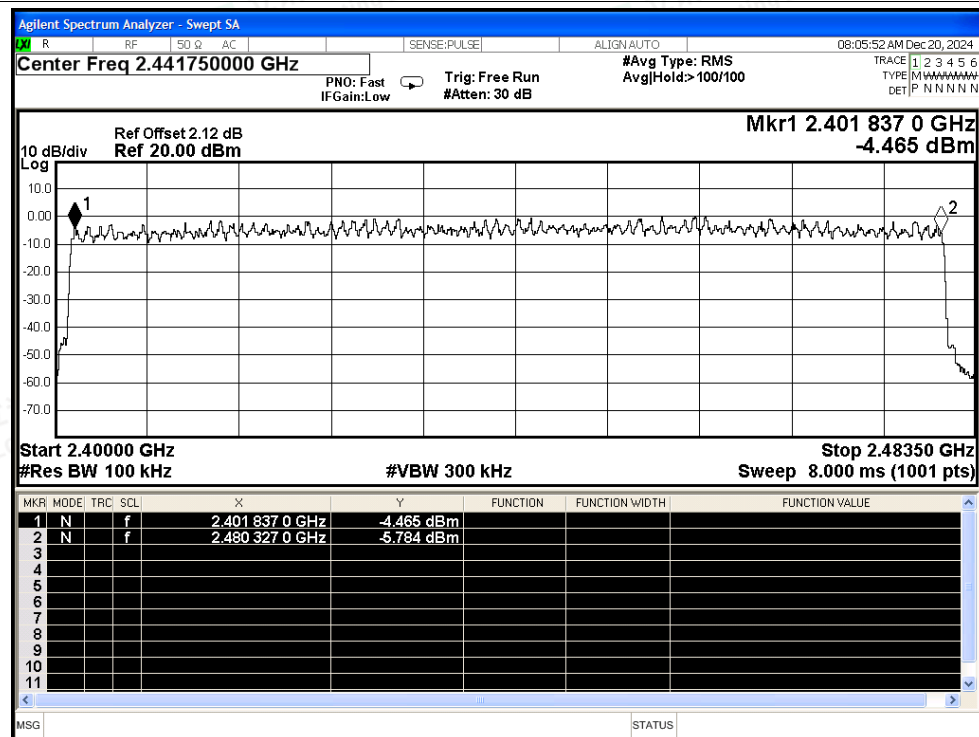


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

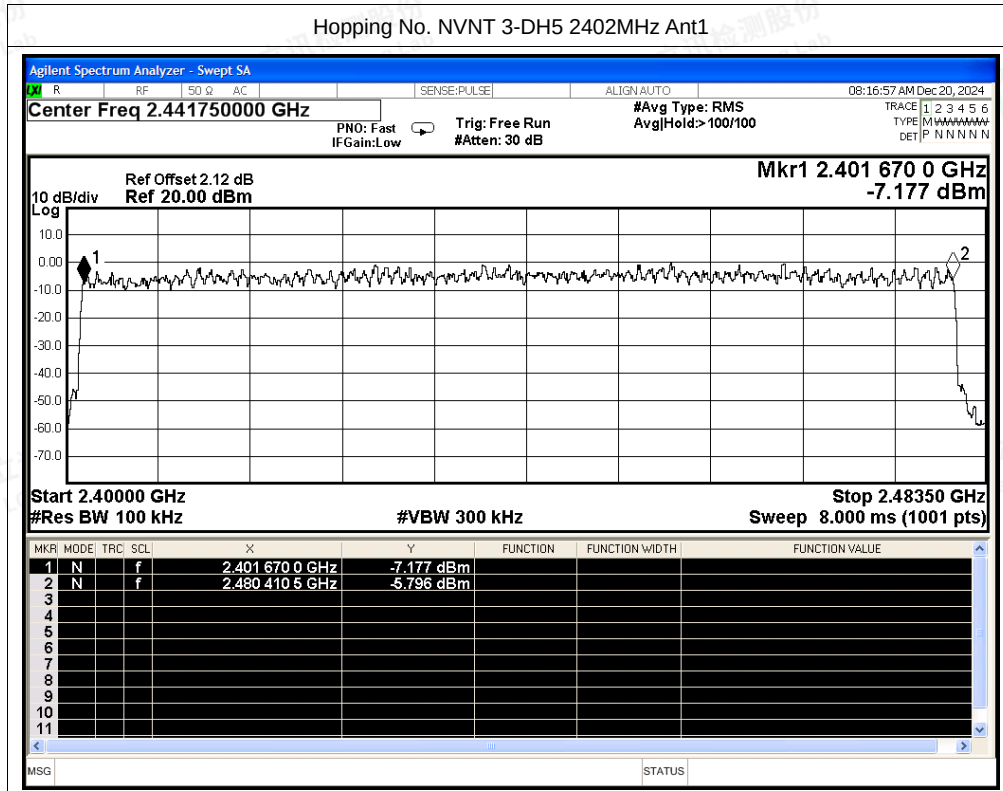


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.36	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.39	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.51	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.15	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.86	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.42	-20	Pass

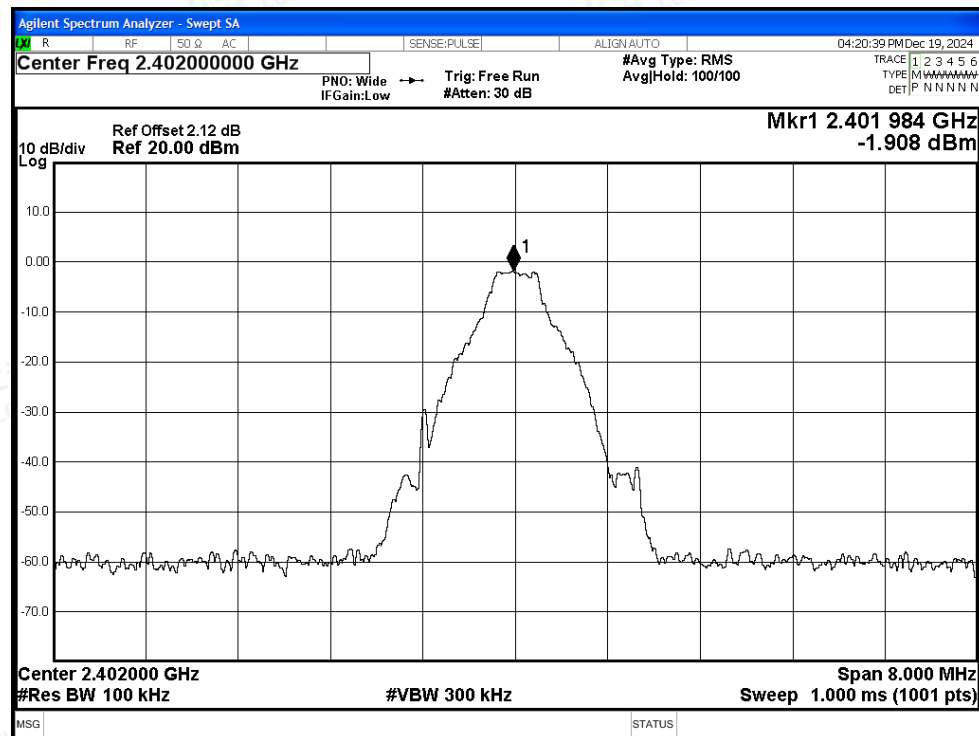


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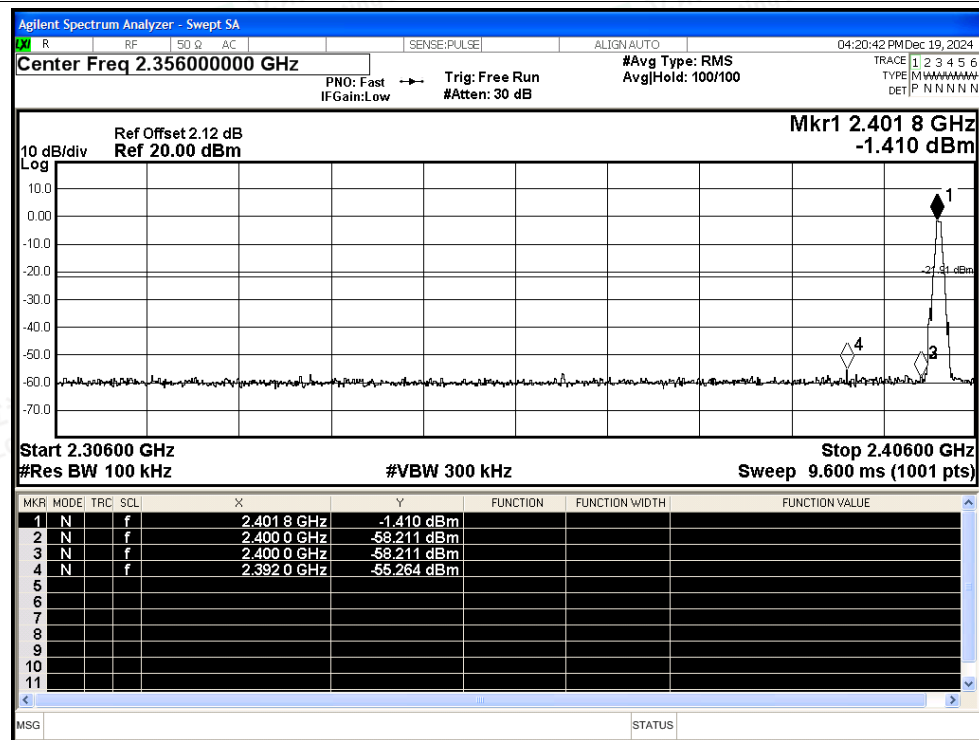


Test Graphs

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



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



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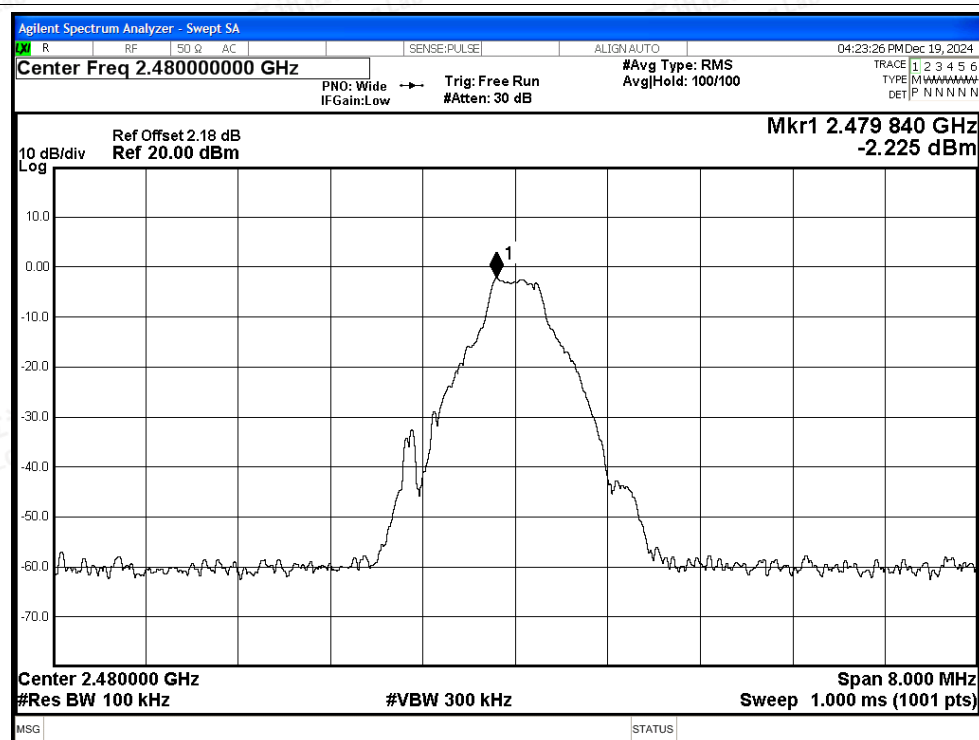
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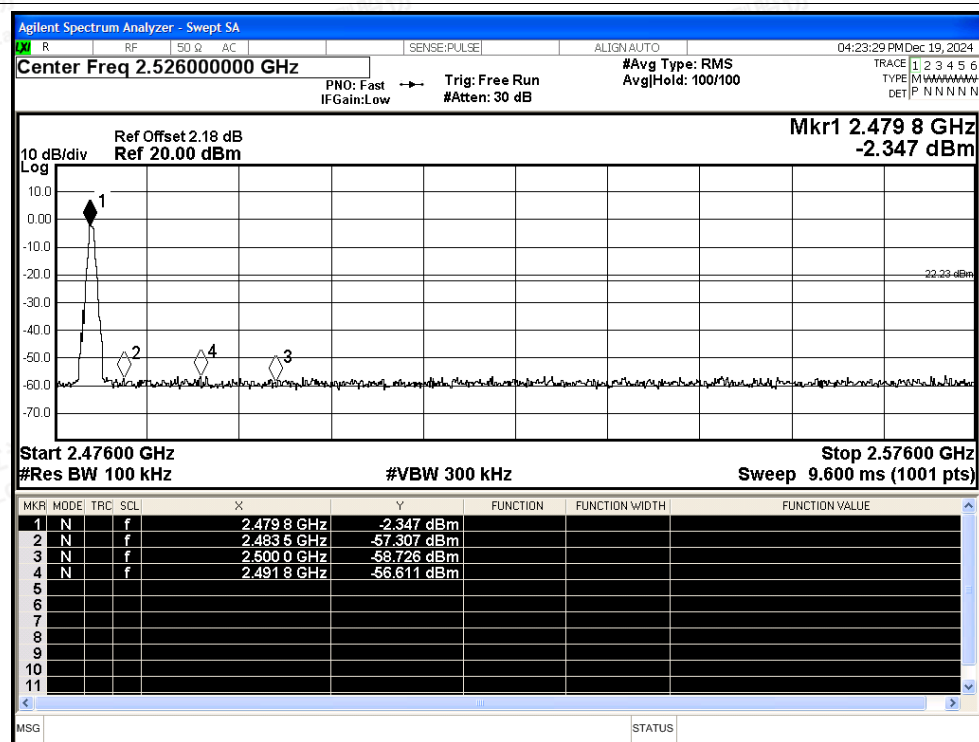
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

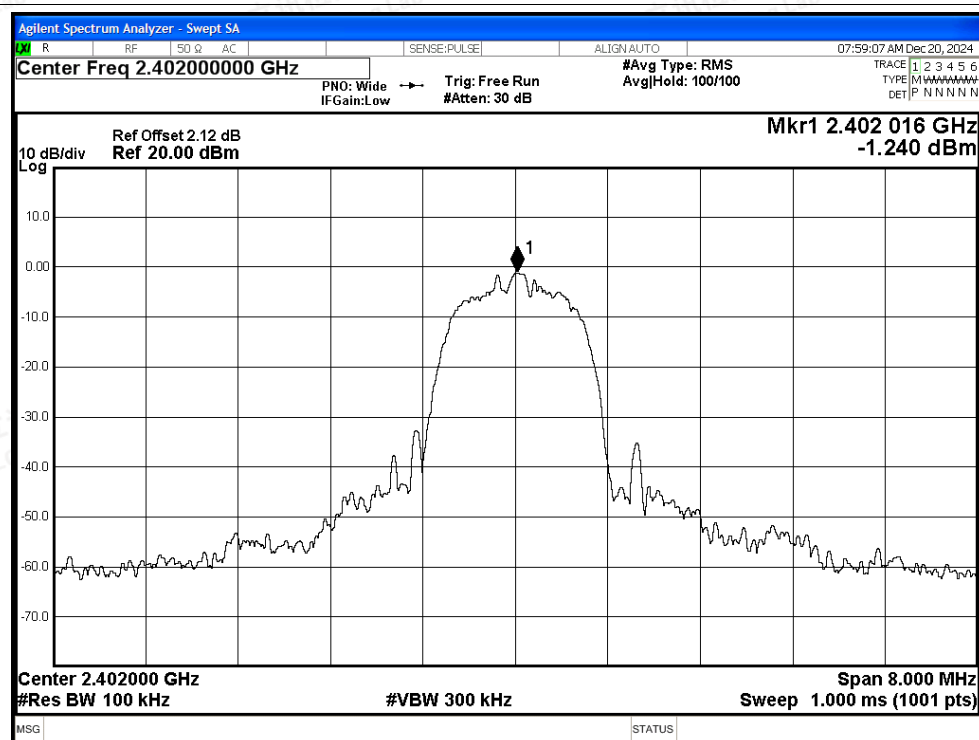


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

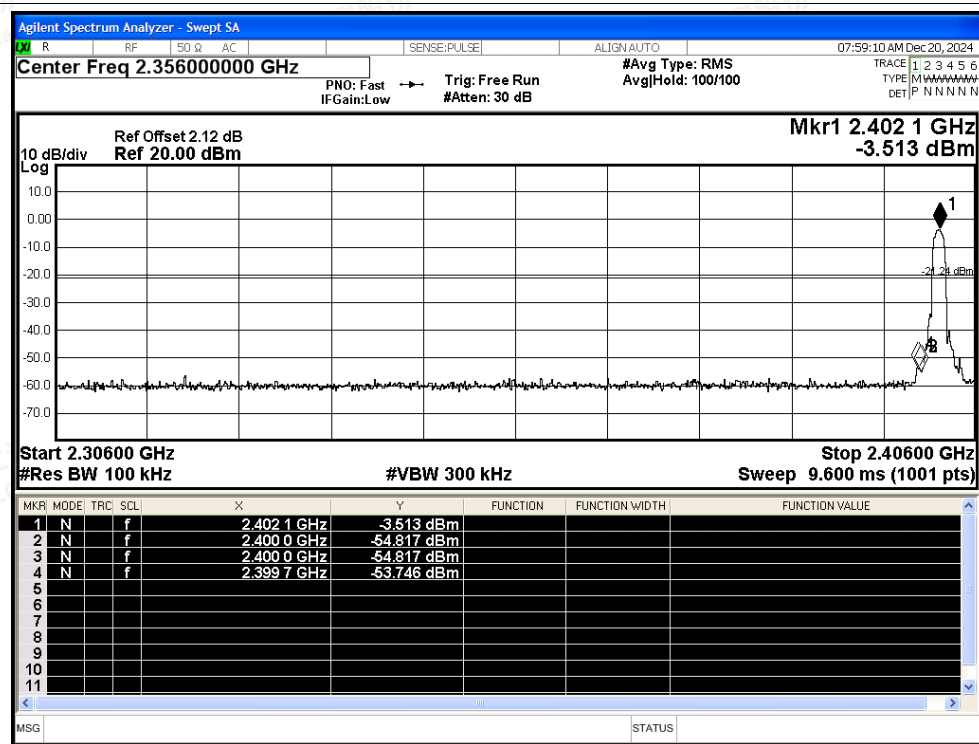




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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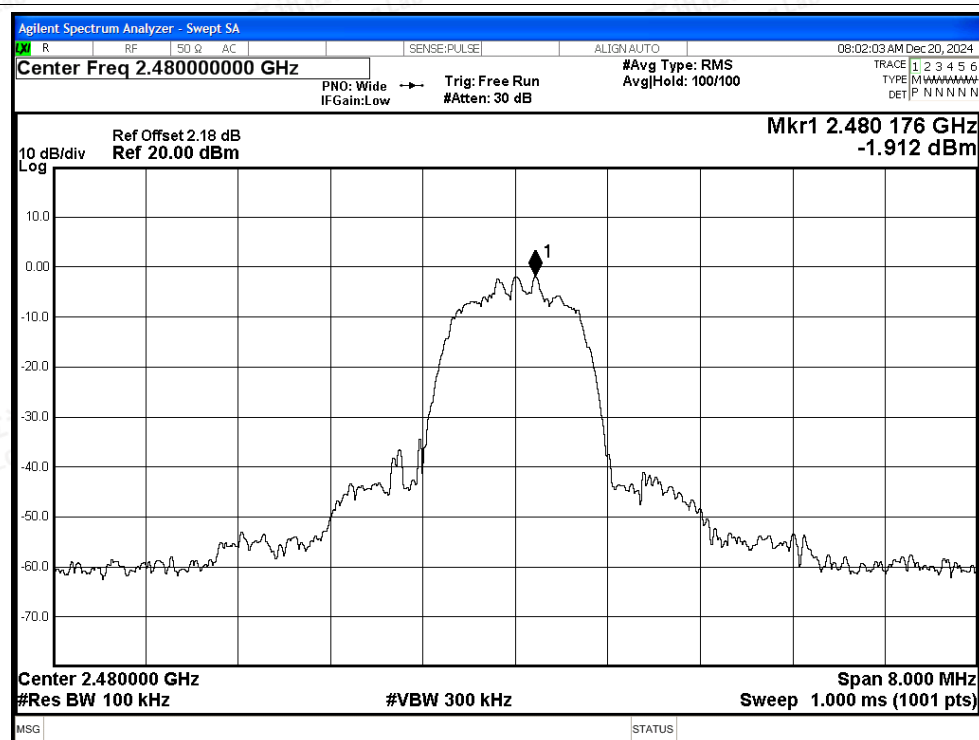
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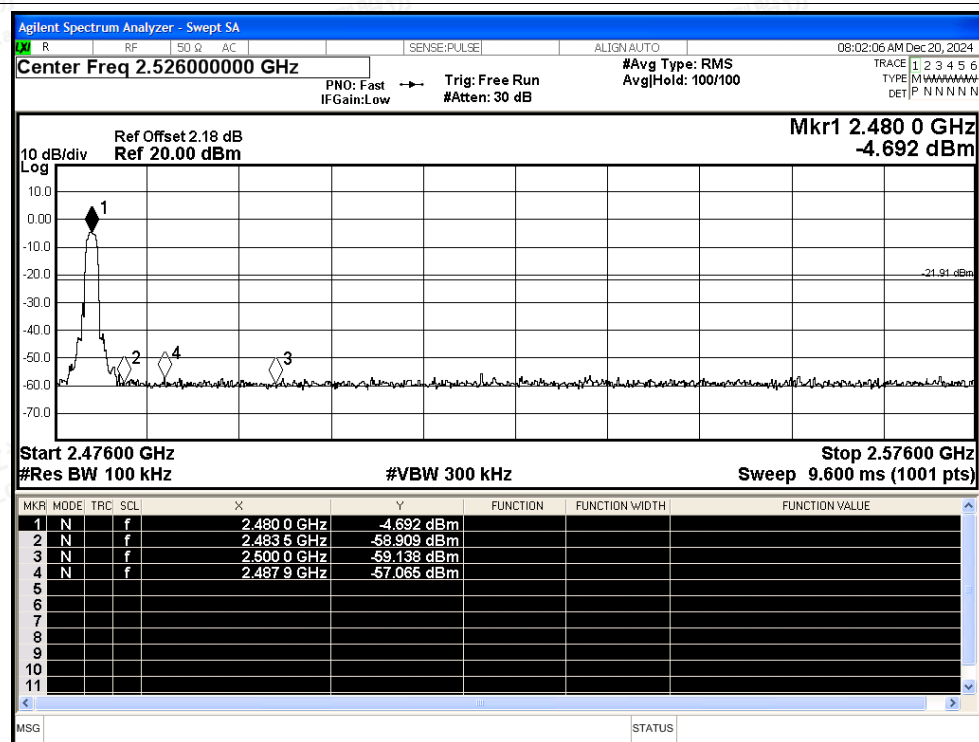
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

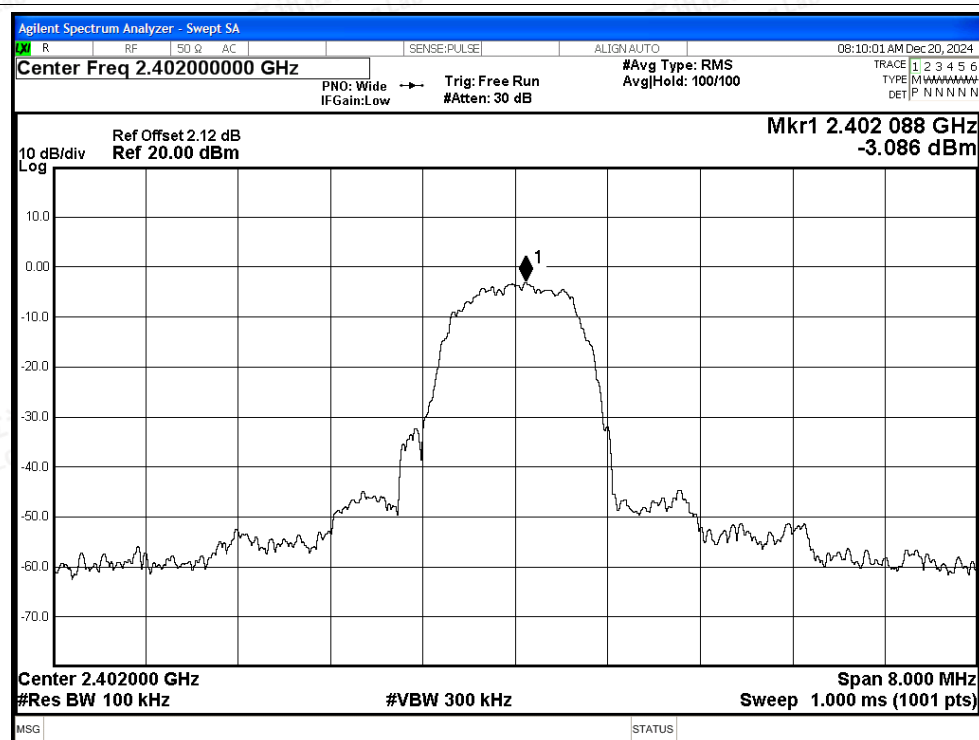


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

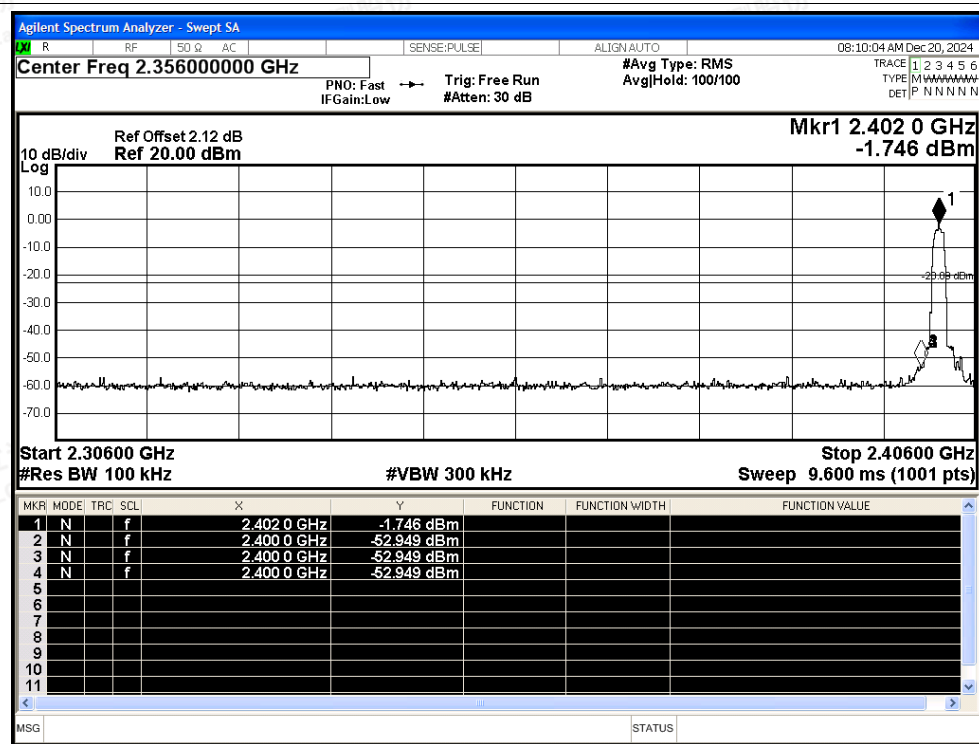




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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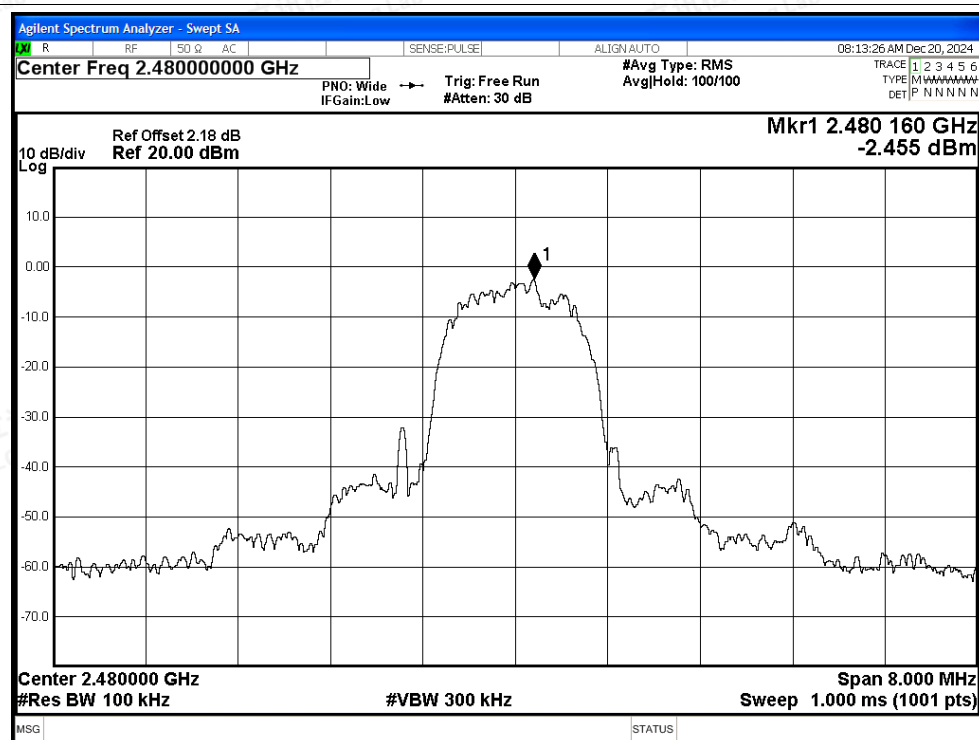
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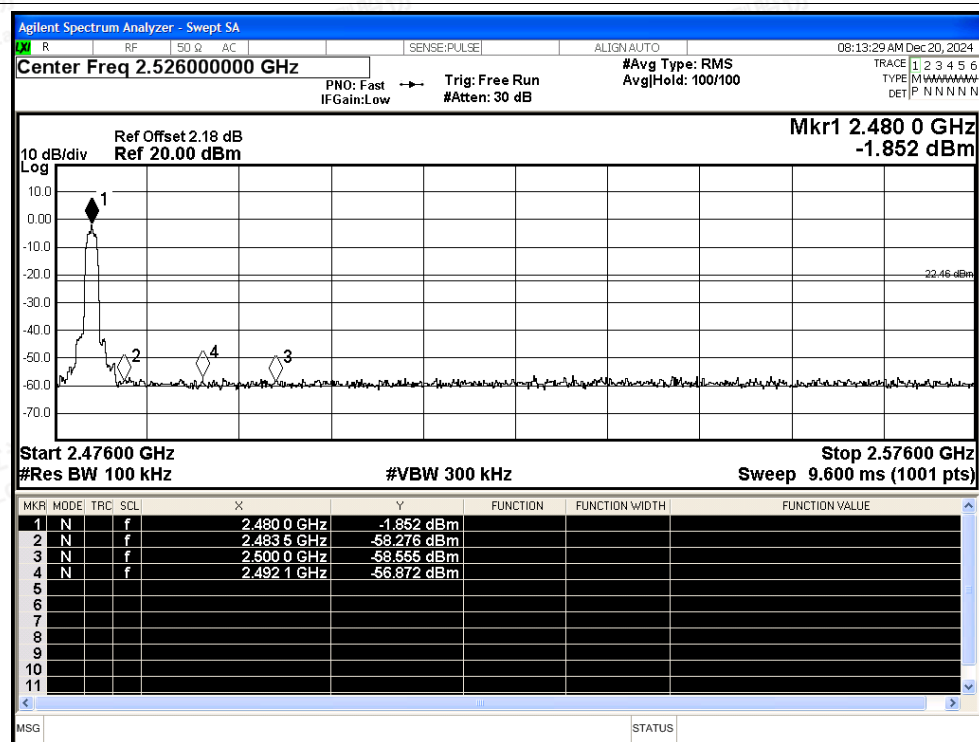
Scan code to check authenticity



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



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





(Hopping)

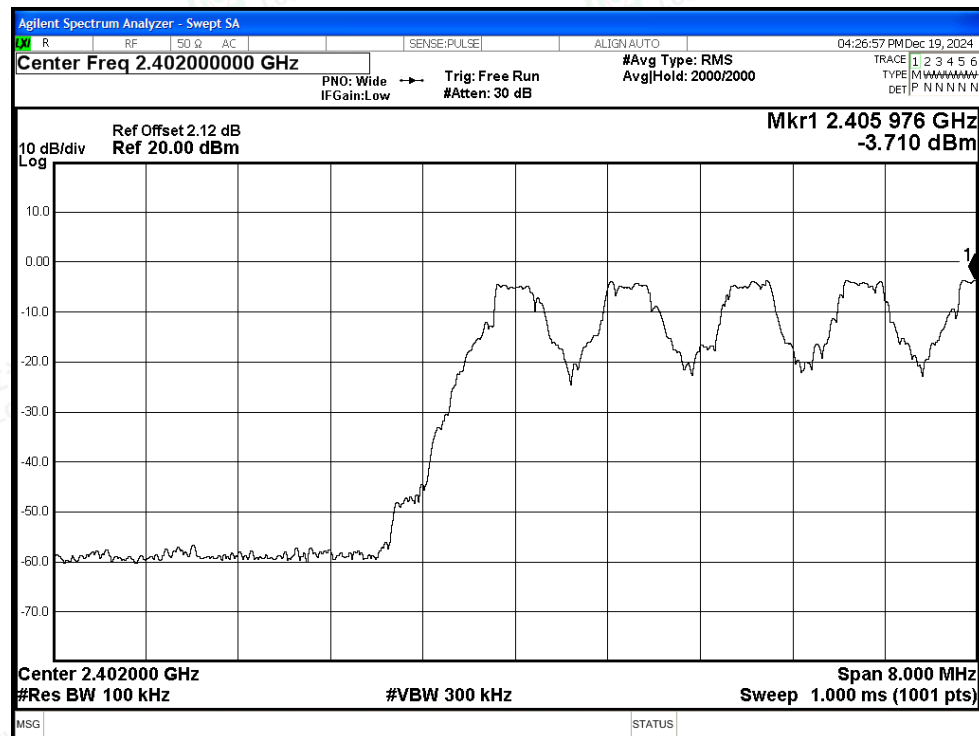
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.04	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.13	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.18	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.96	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.25	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.61	-20	Pass



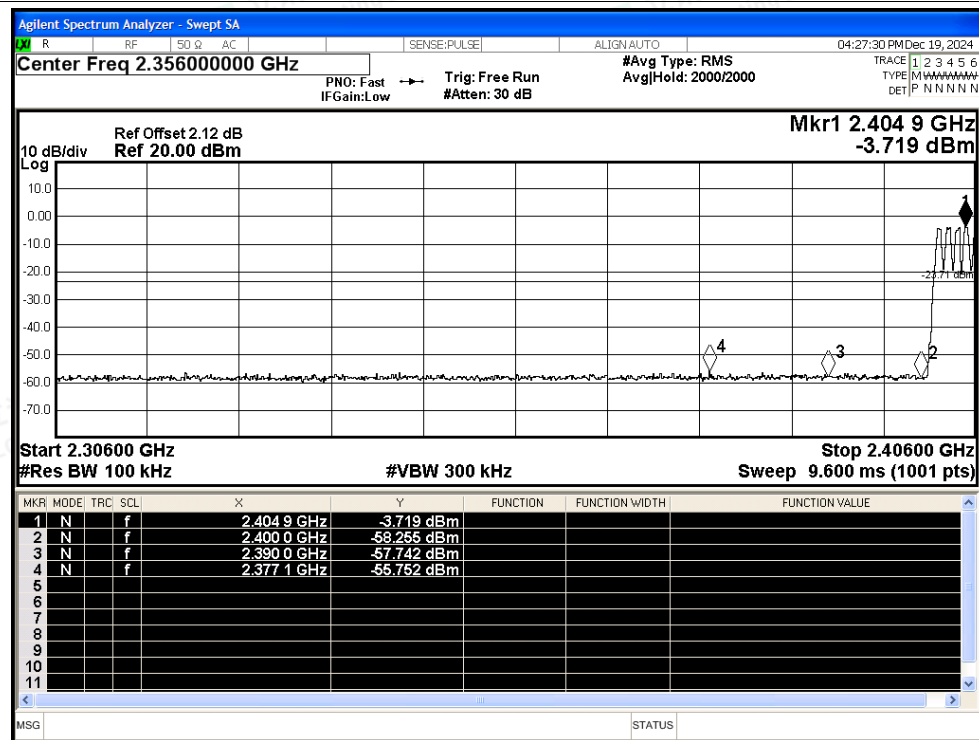


Test Graphs

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



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

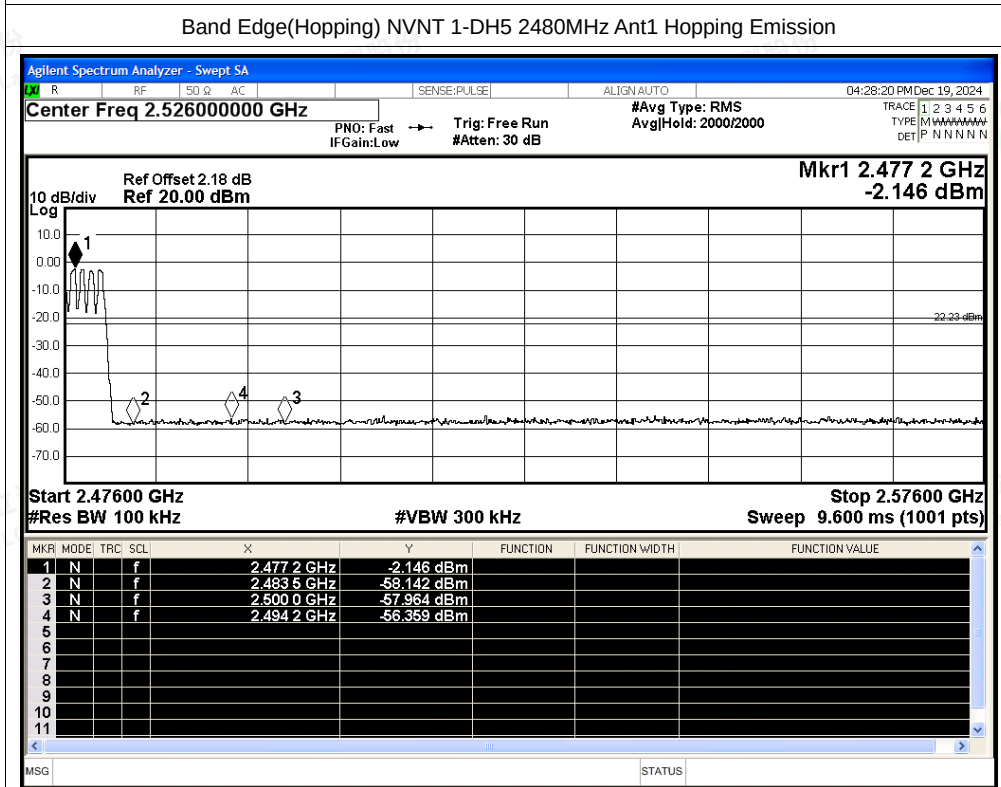
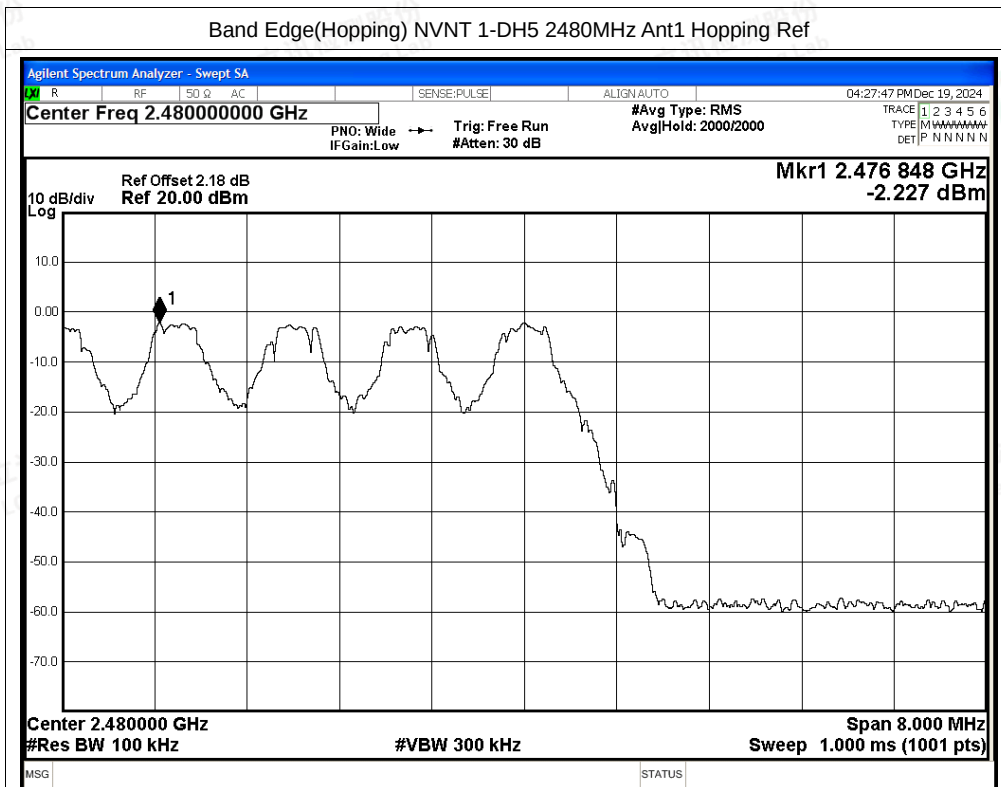


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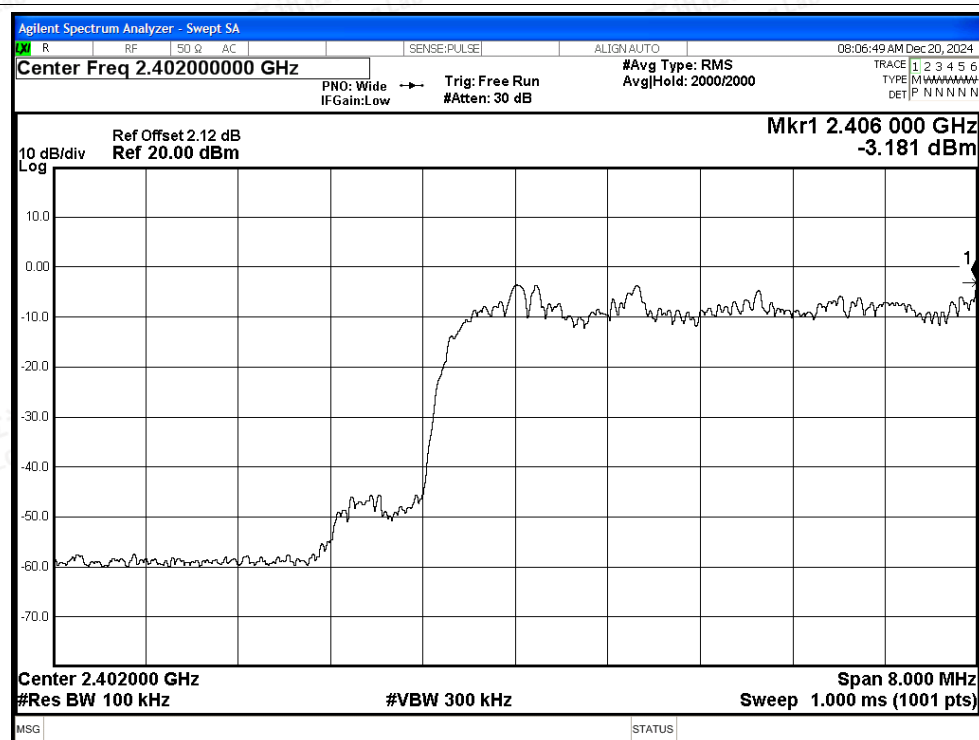
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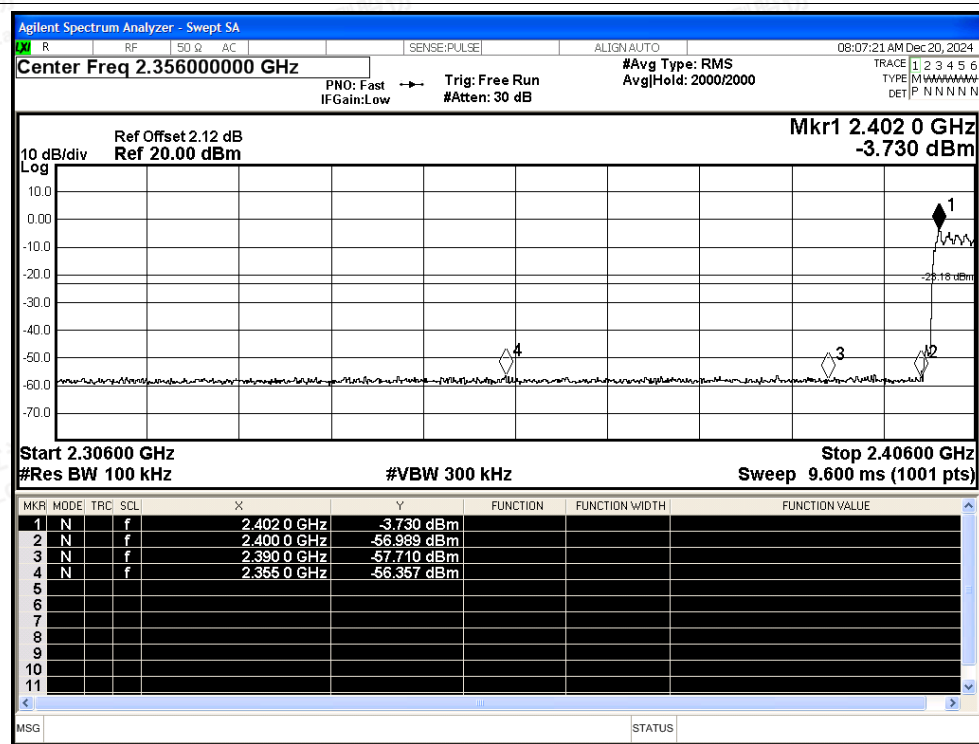
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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

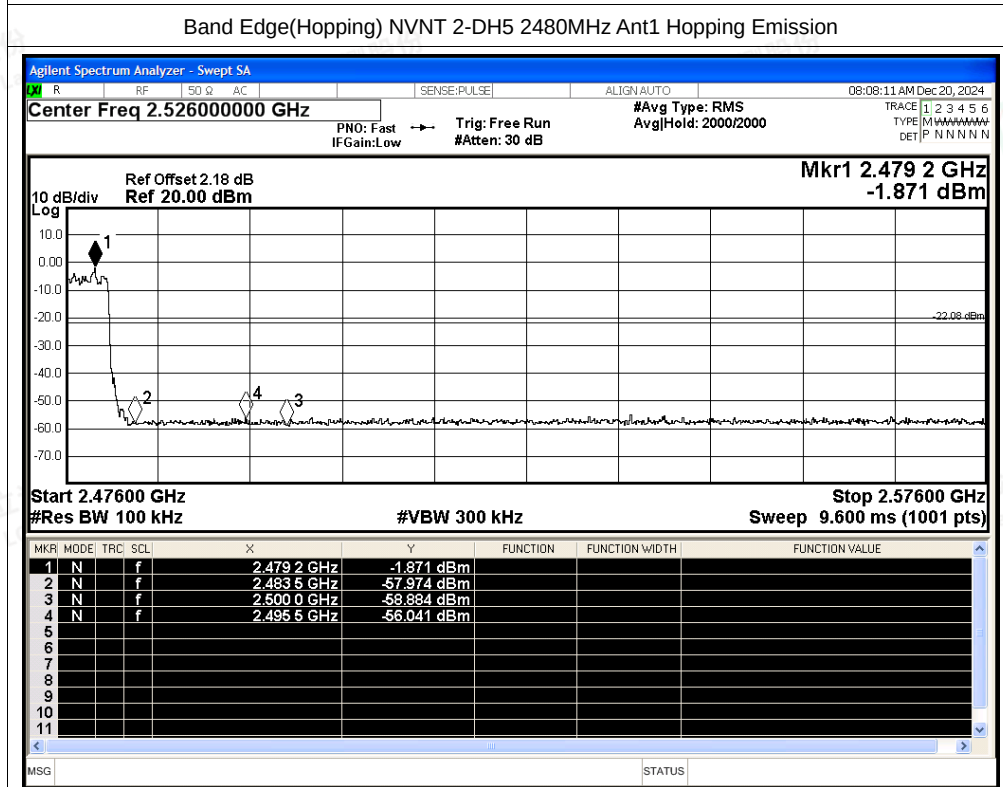
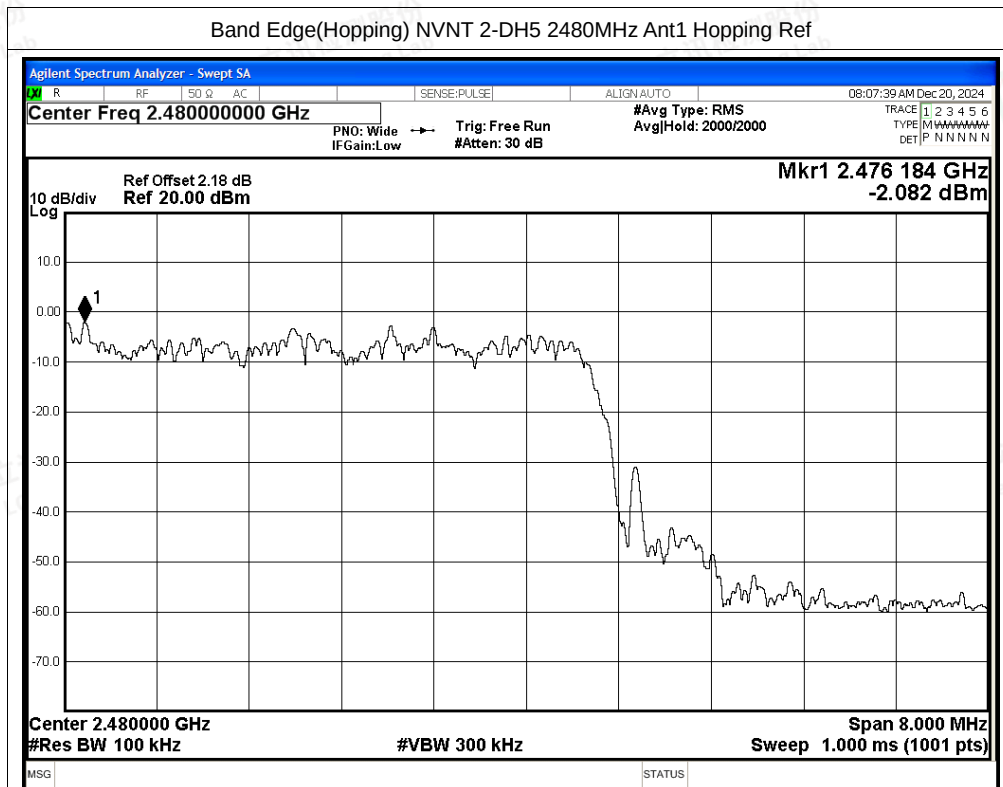


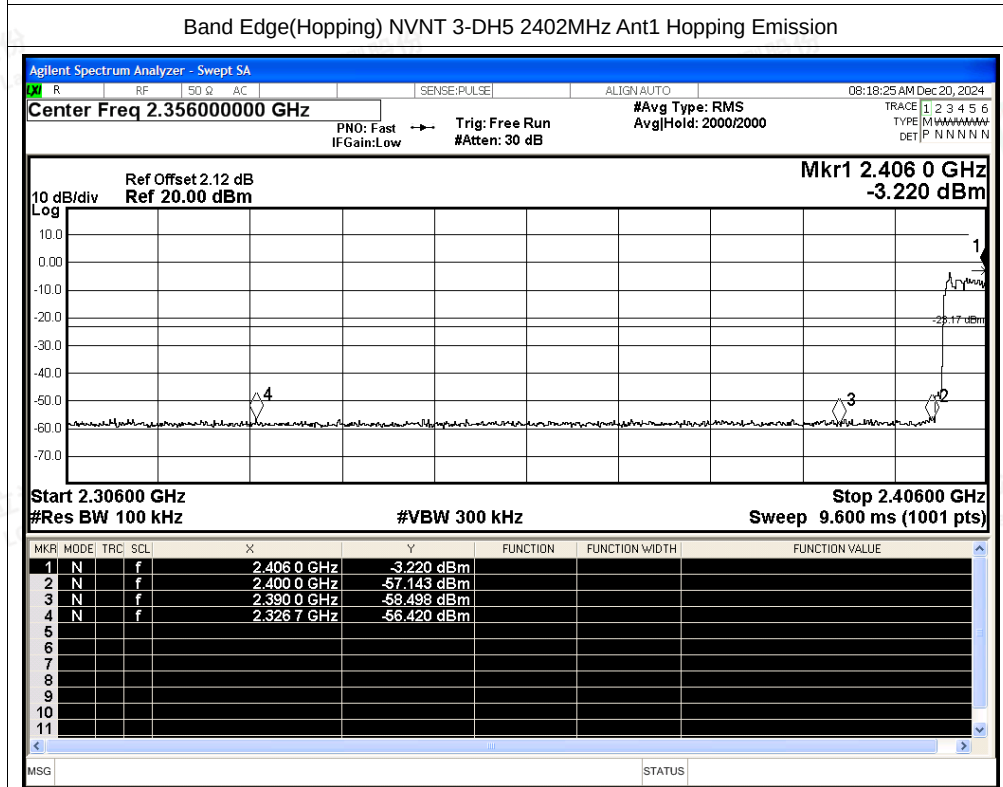
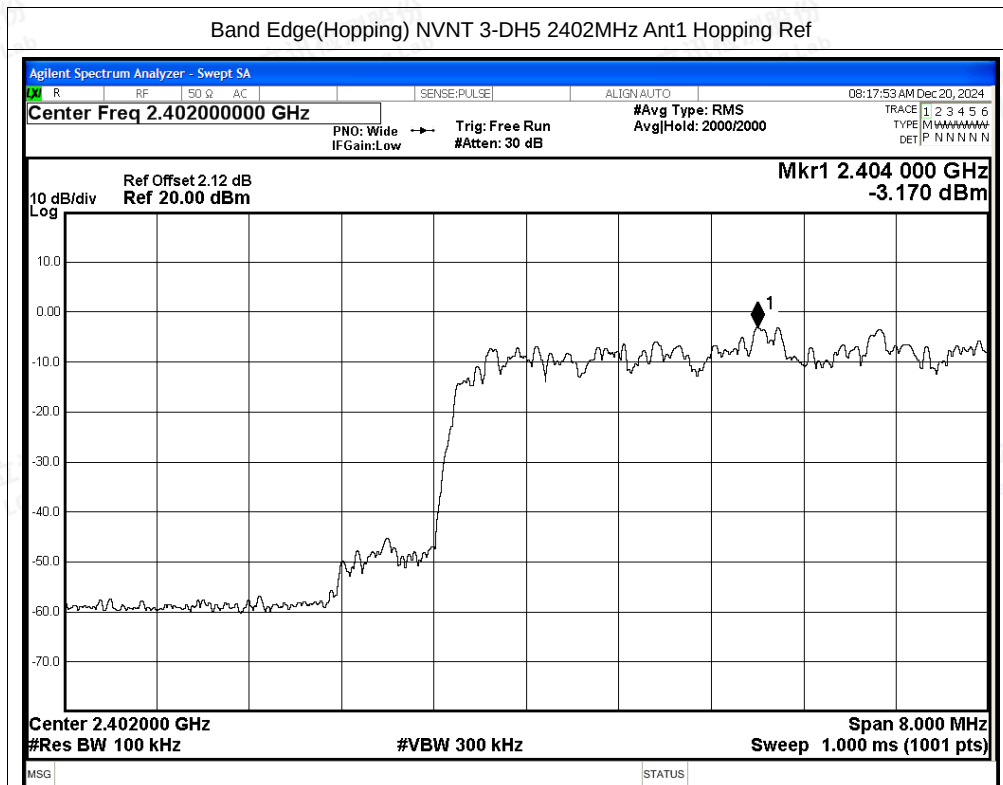
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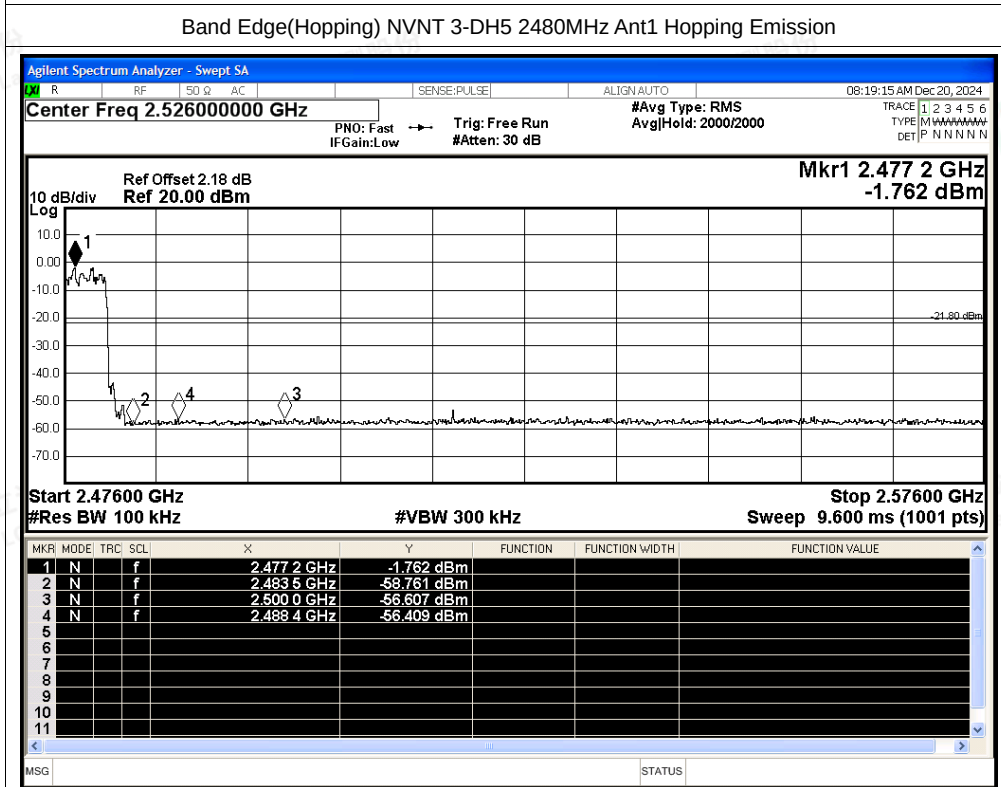
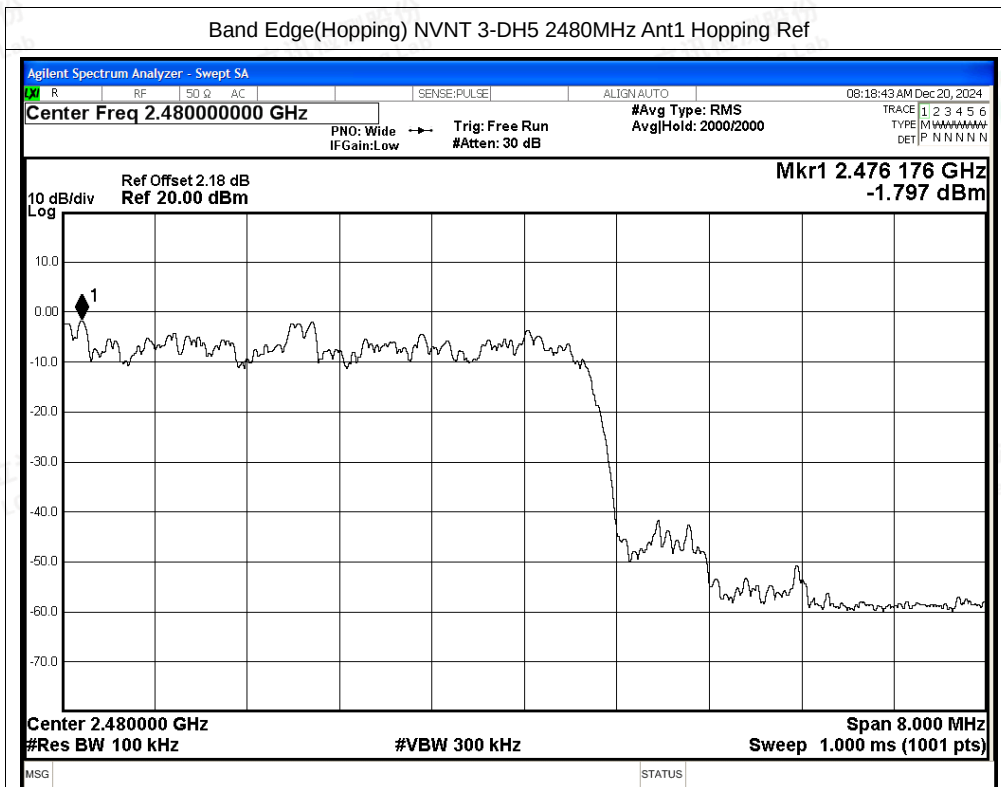
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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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	-53.16	-20	Pass
NVNT	1-DH5	2441	Ant1	-53.81	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.71	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.98	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.23	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.79	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.28	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.16	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.98	-20	Pass

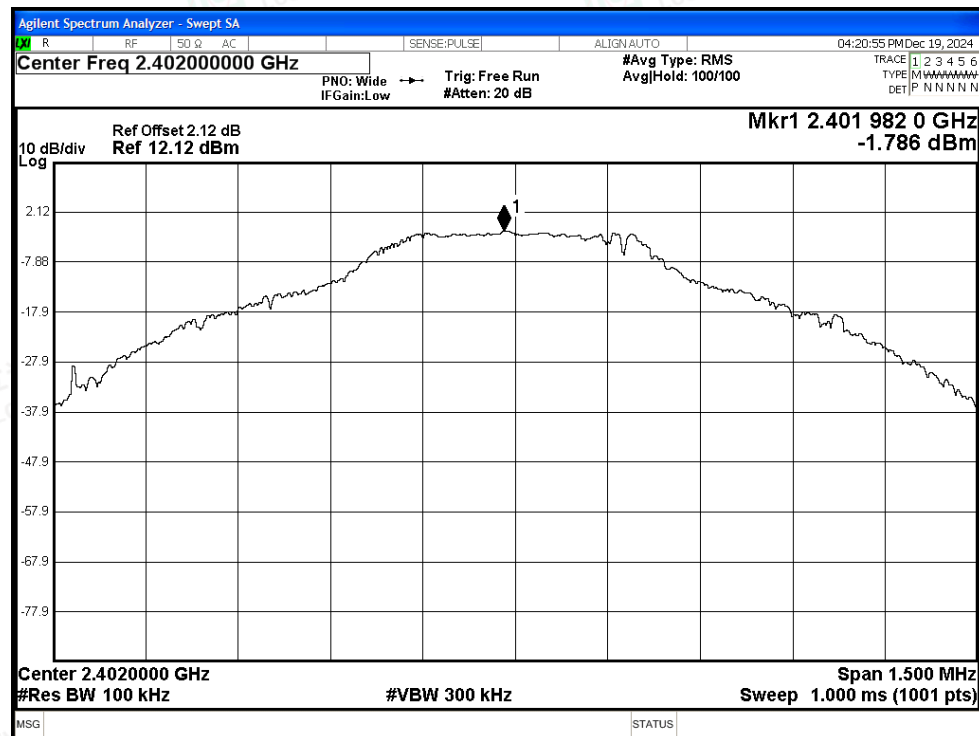


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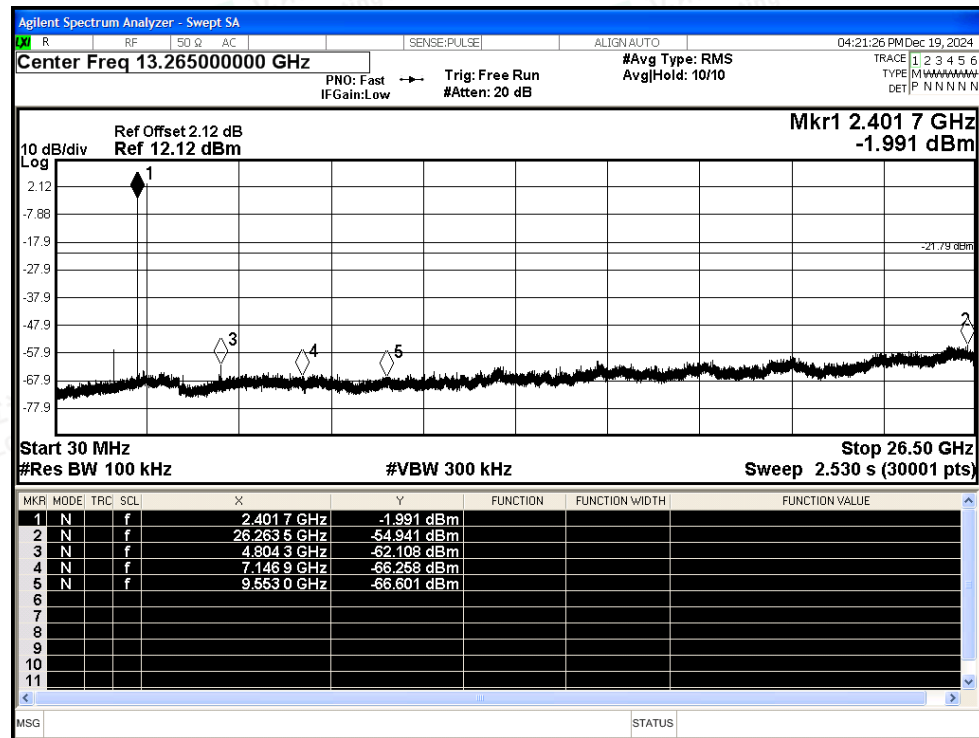


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

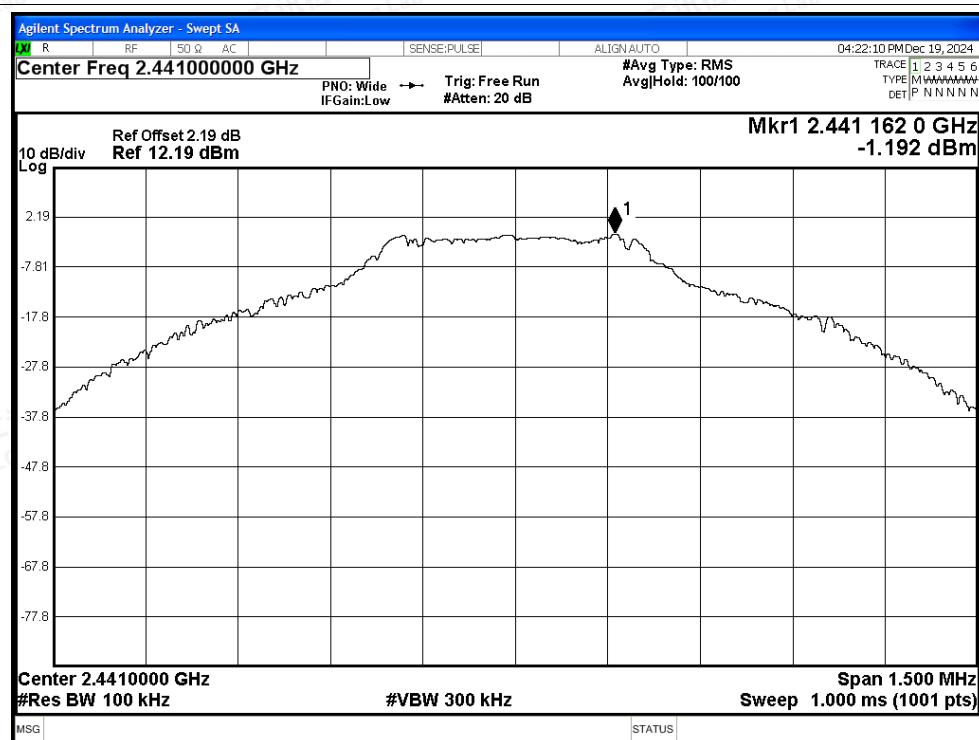
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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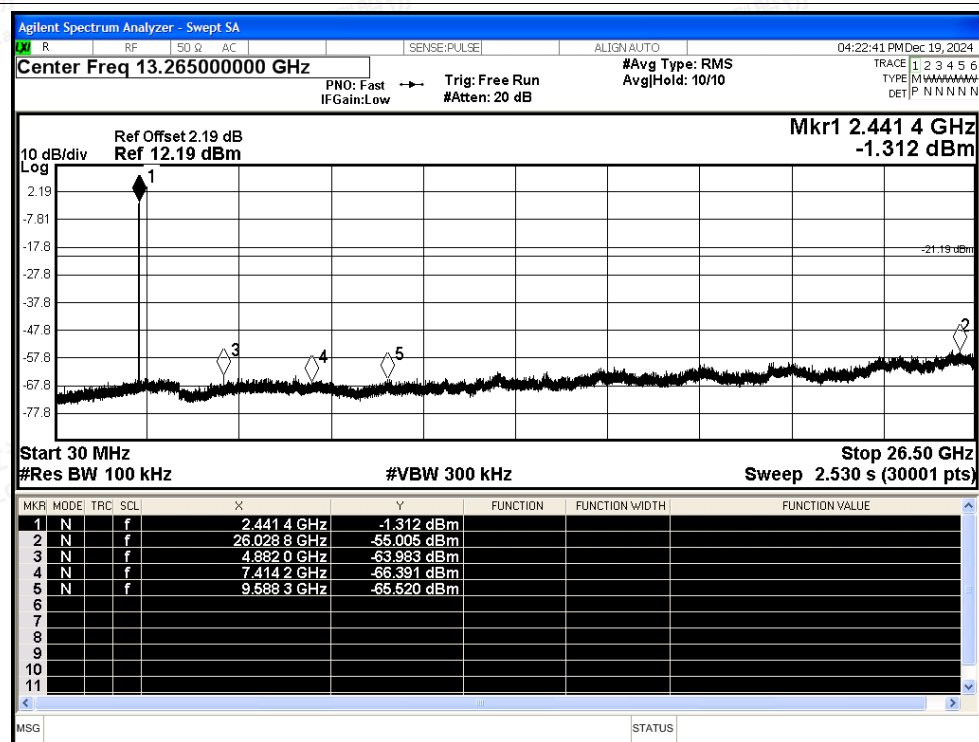
Scan code to check authenticity



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

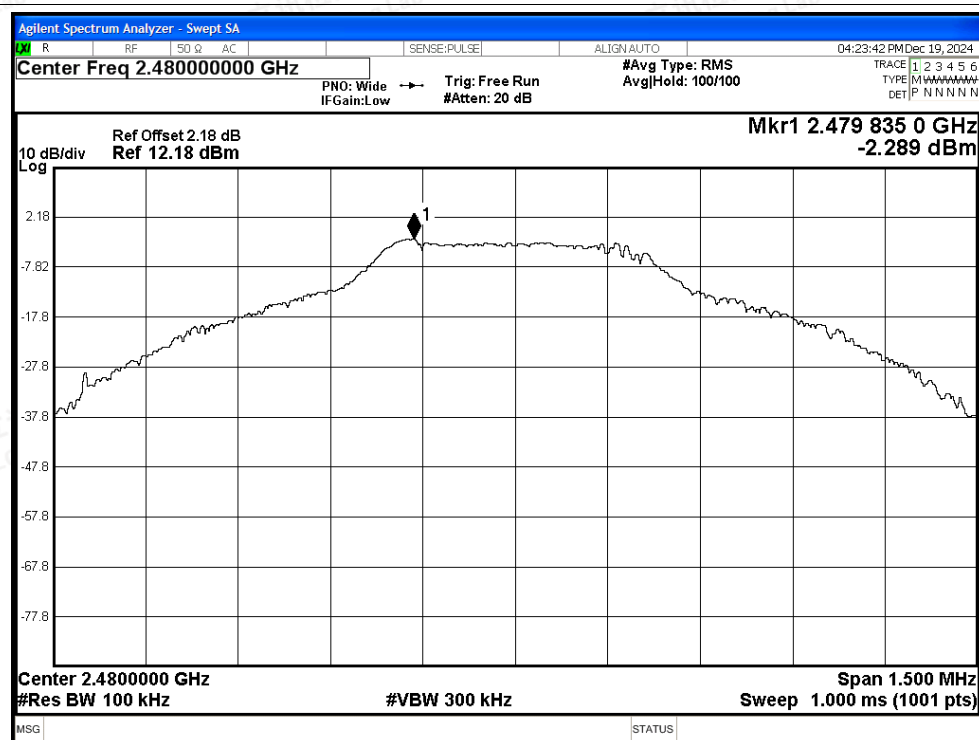


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

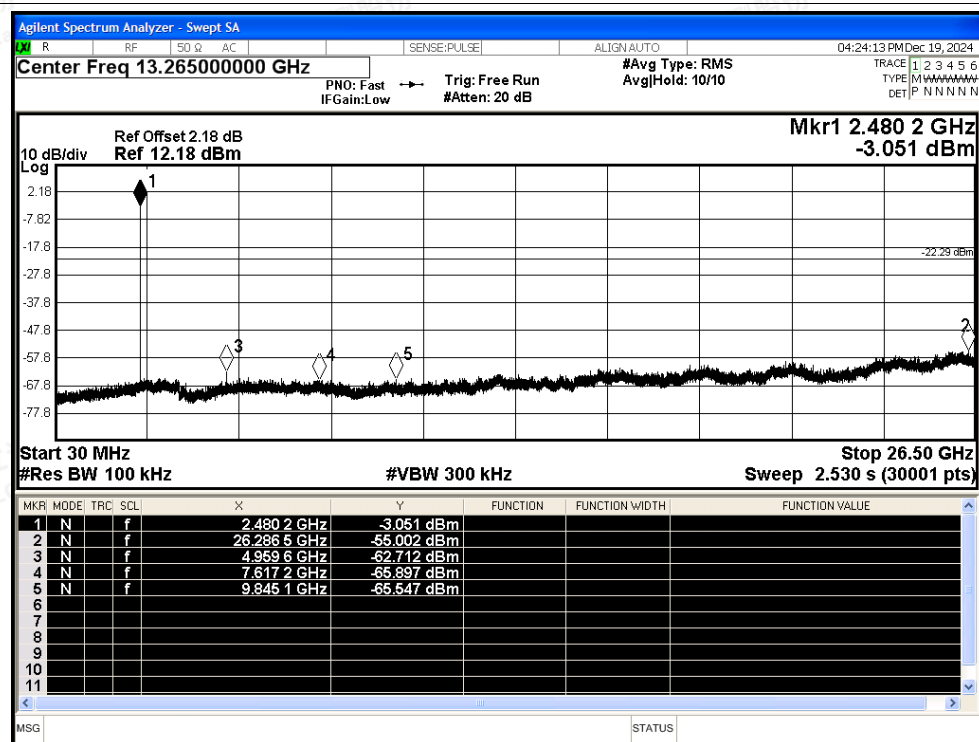




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

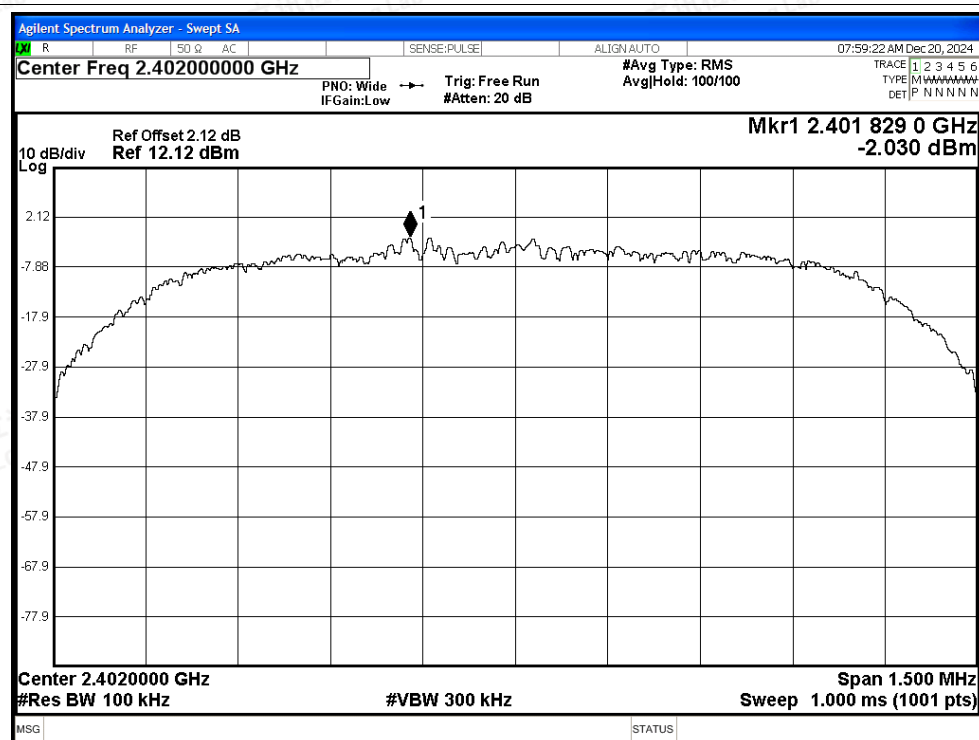


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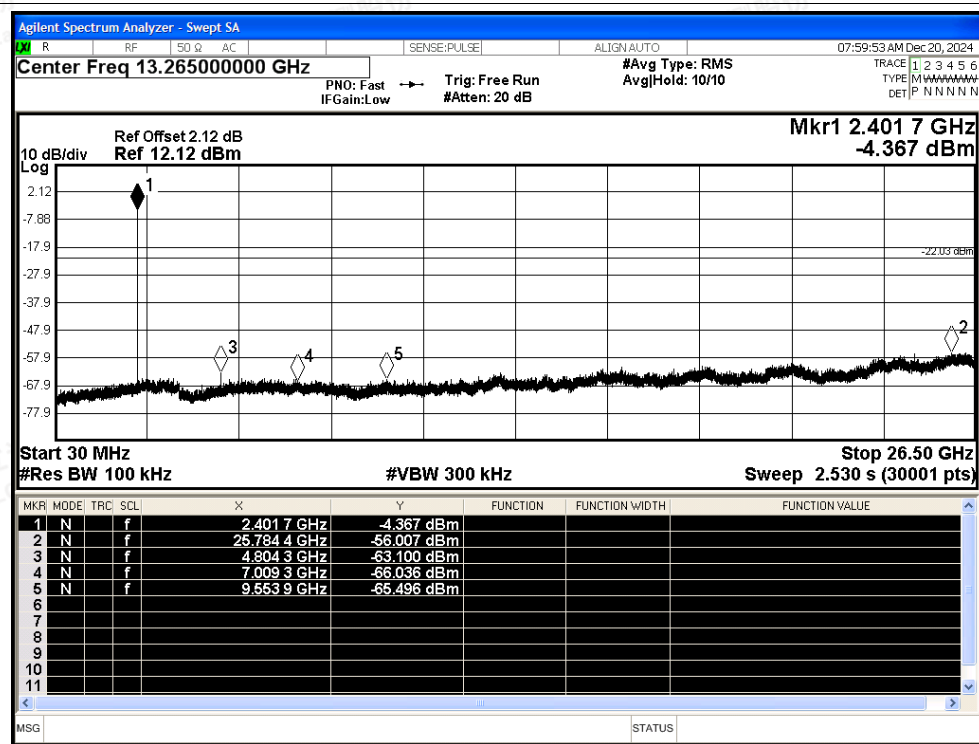




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

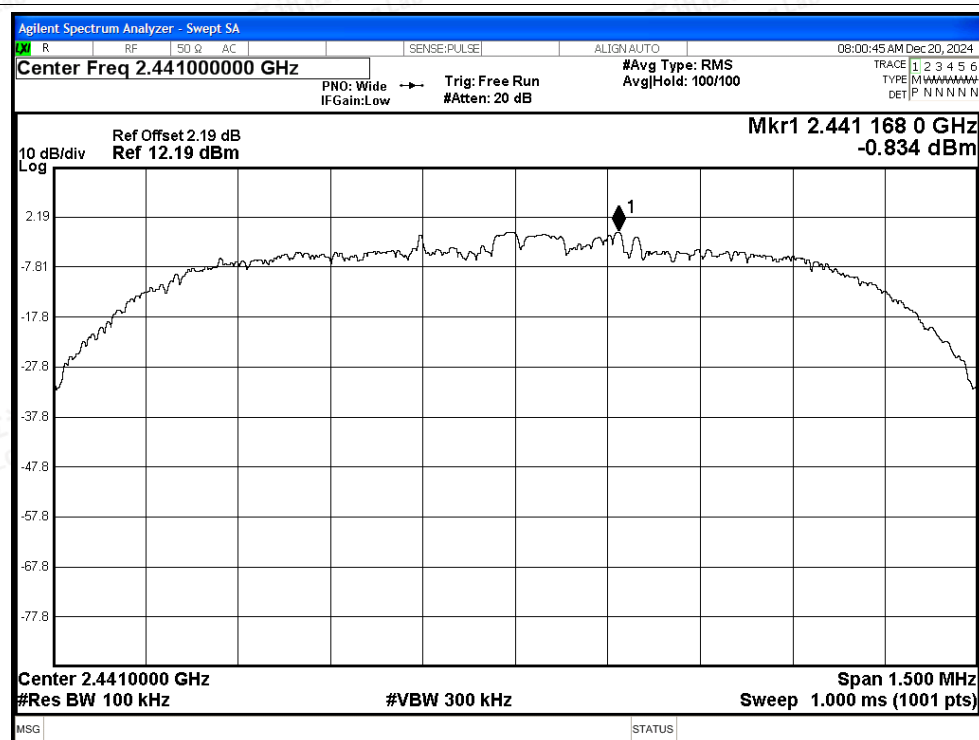
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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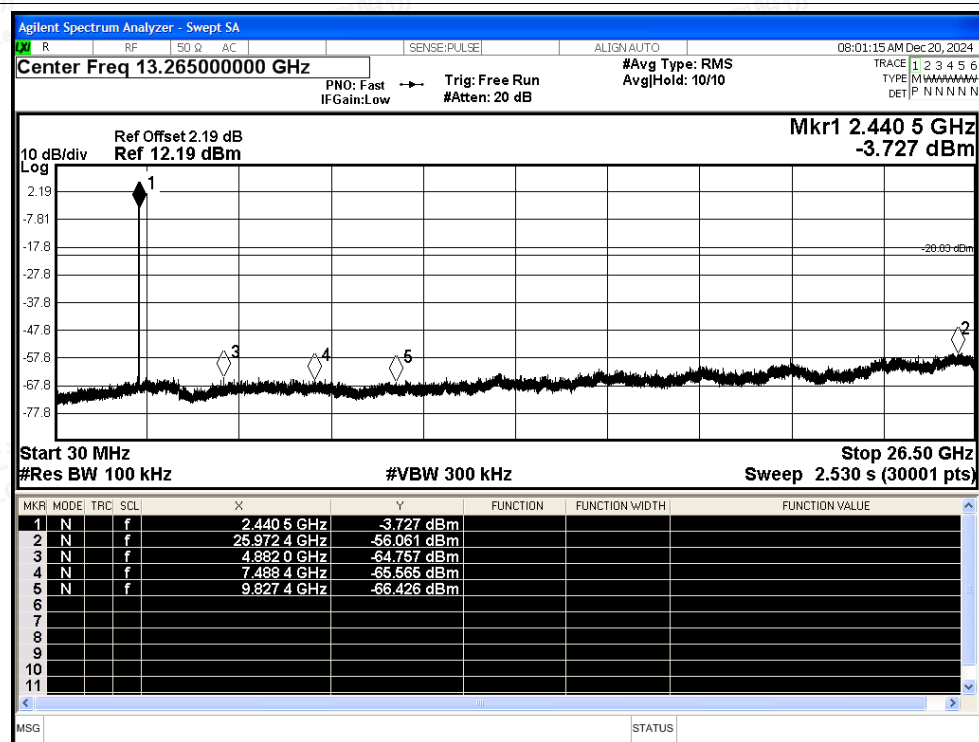
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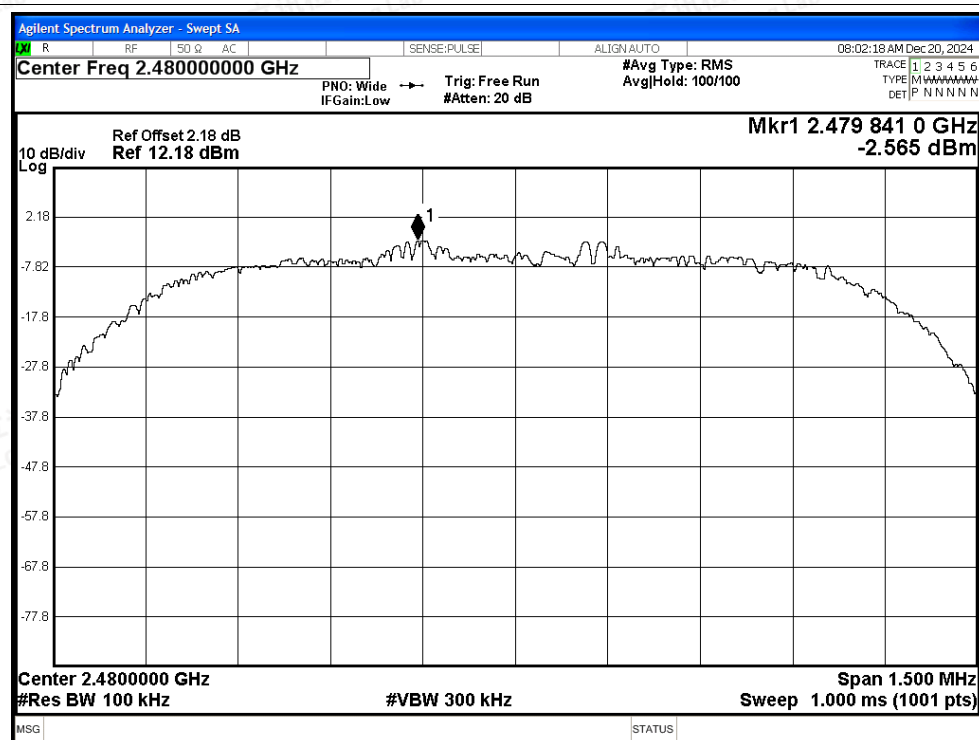


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

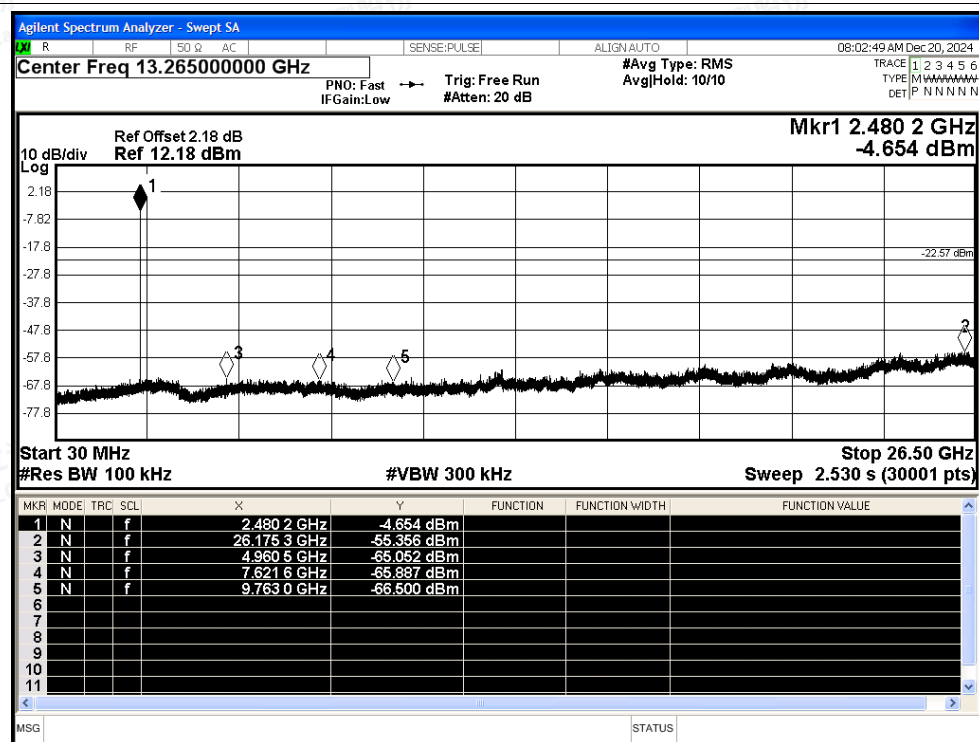




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

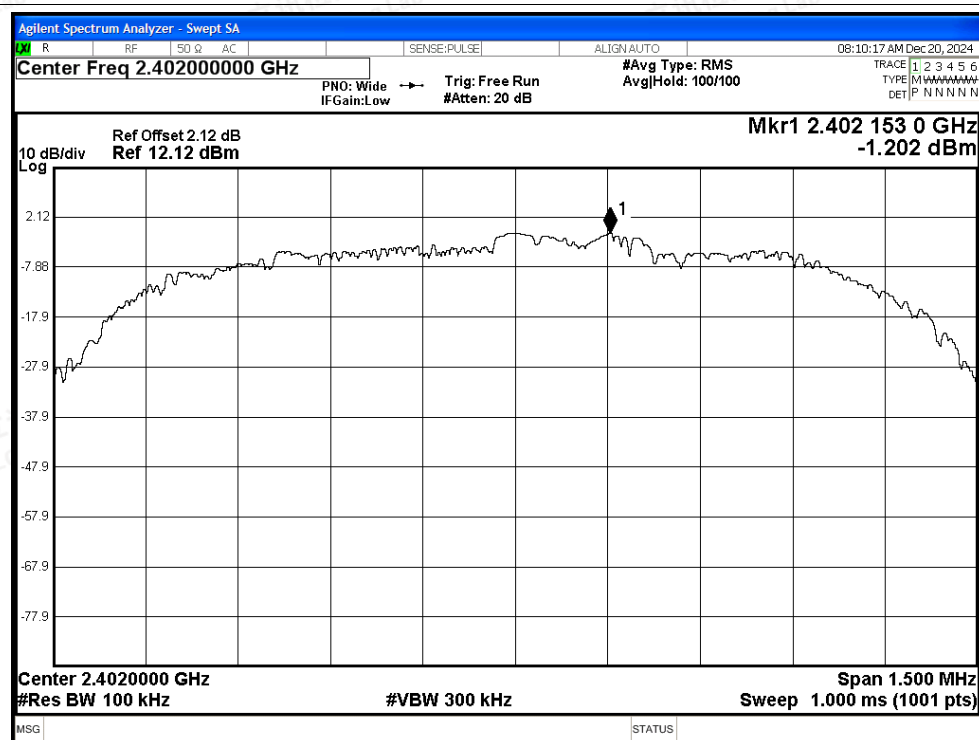
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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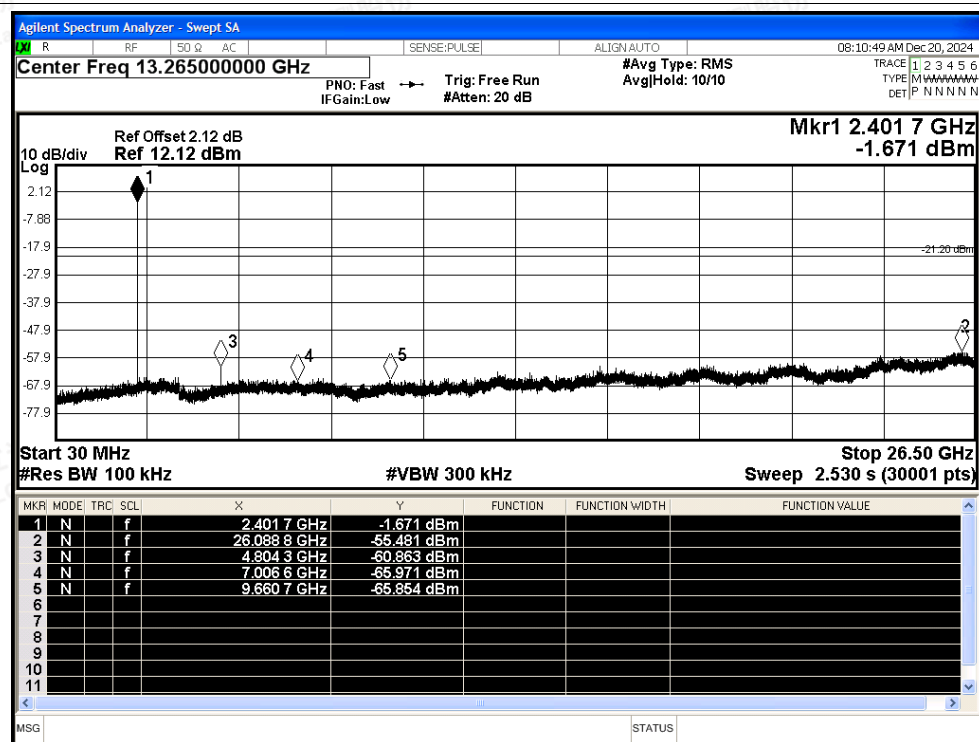
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

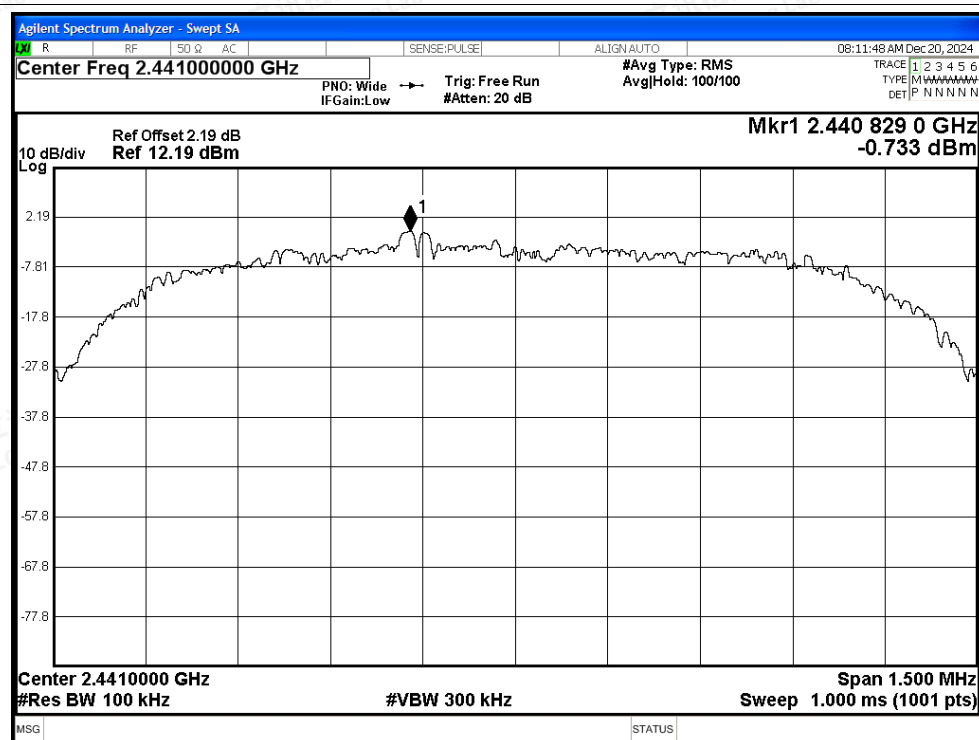
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

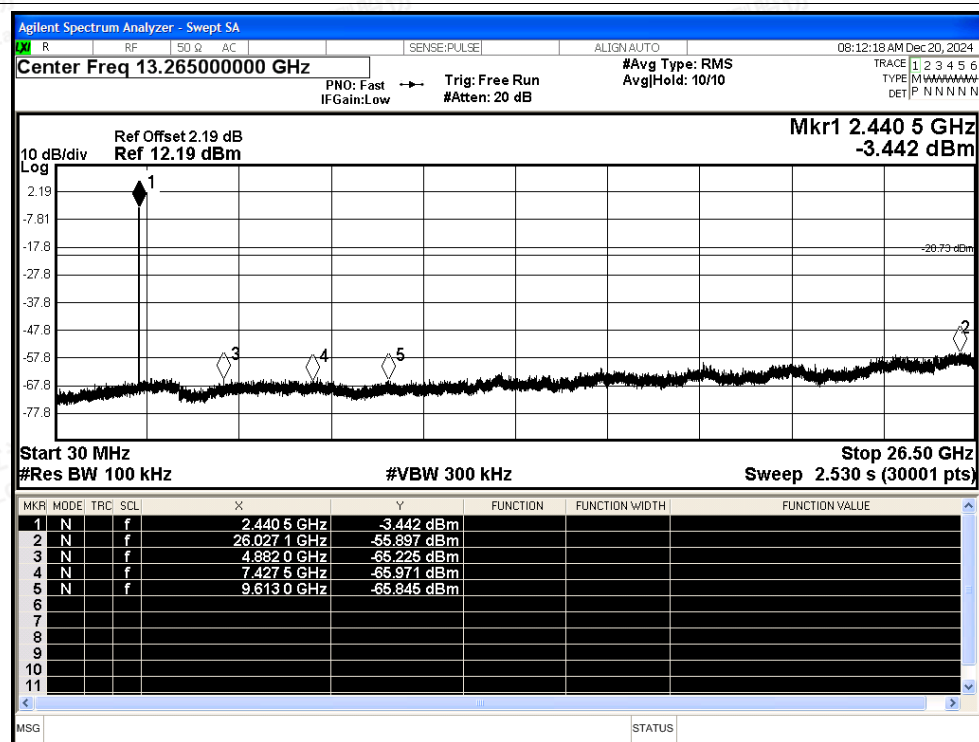
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

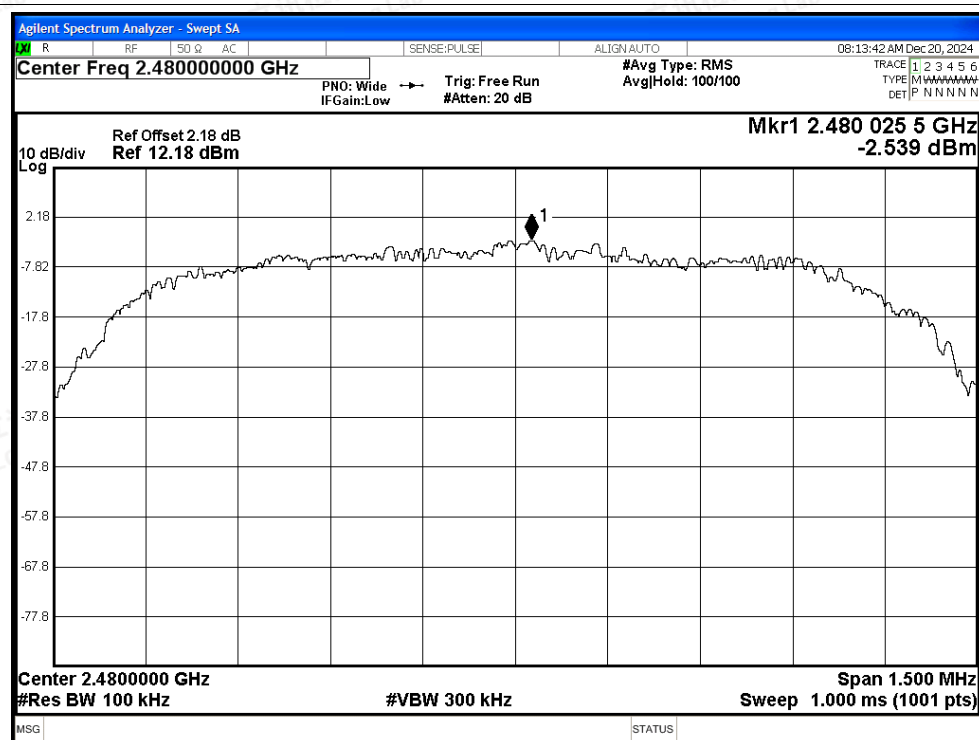
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

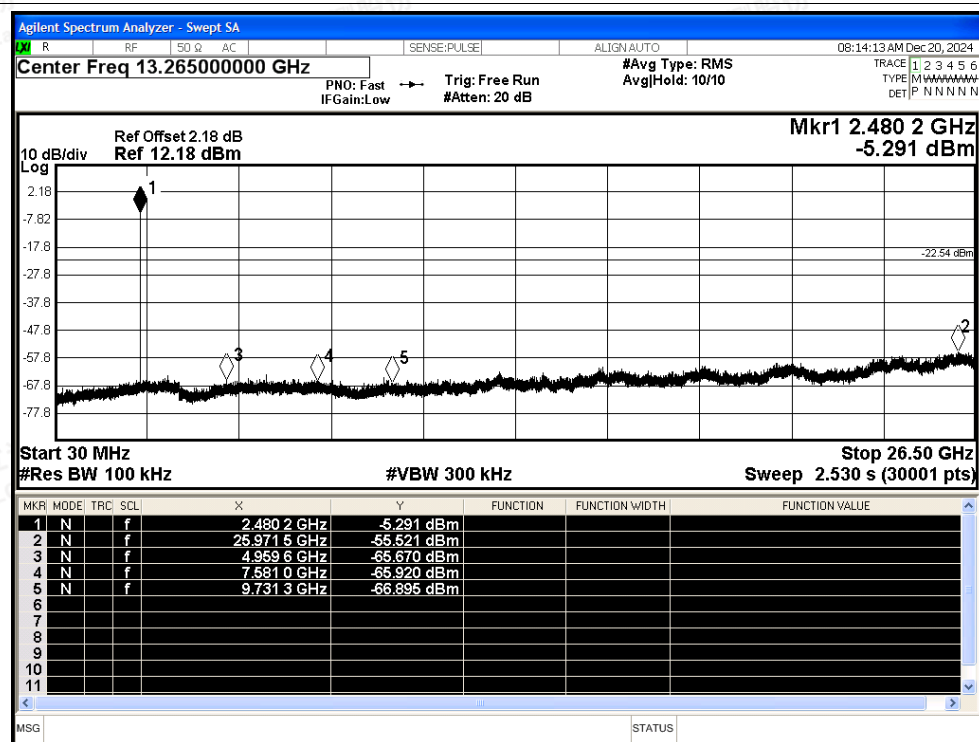
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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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	77.6	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	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

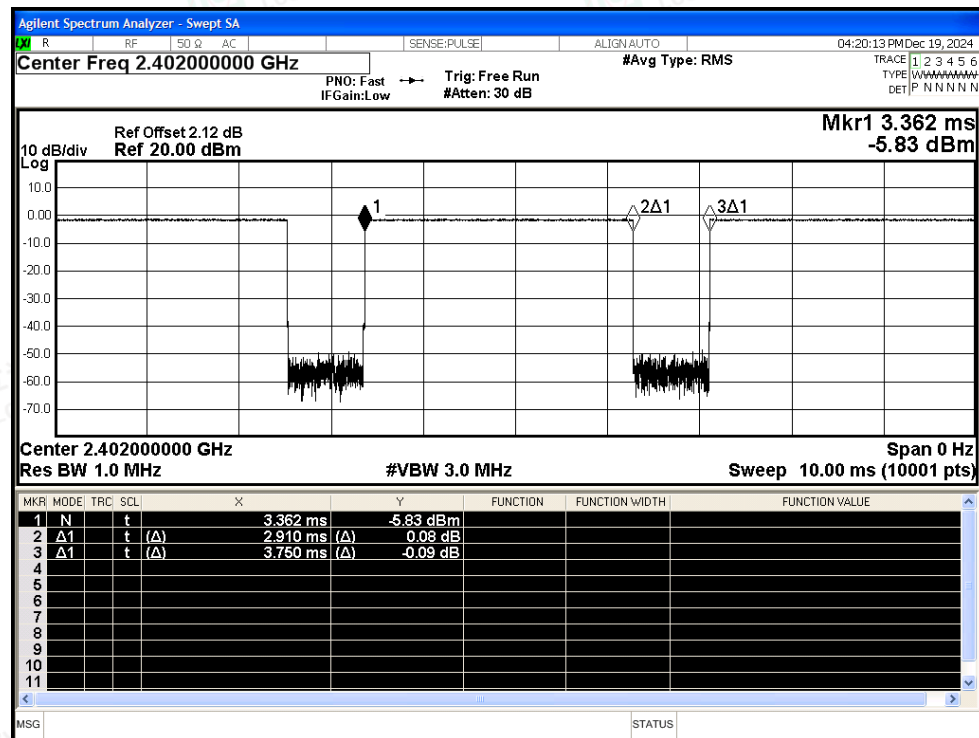


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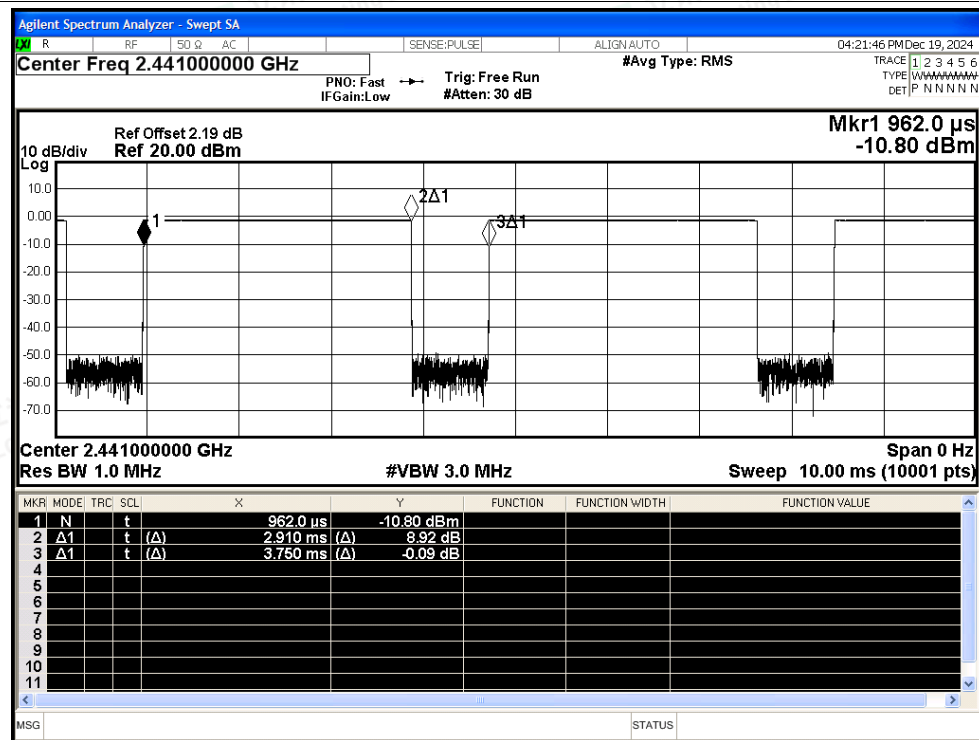


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

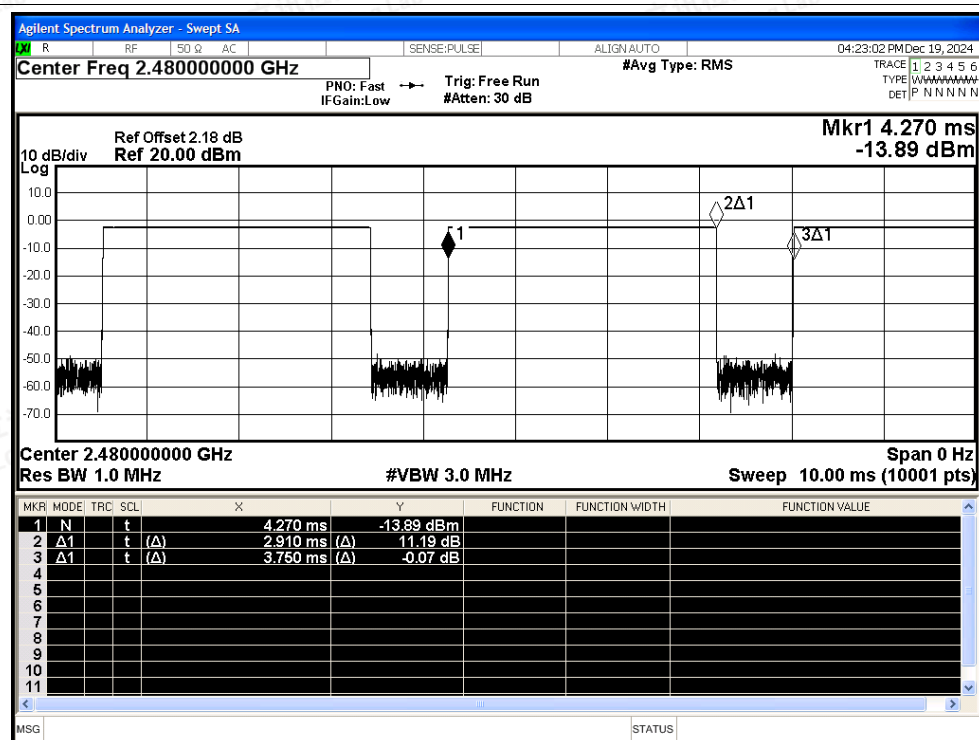
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

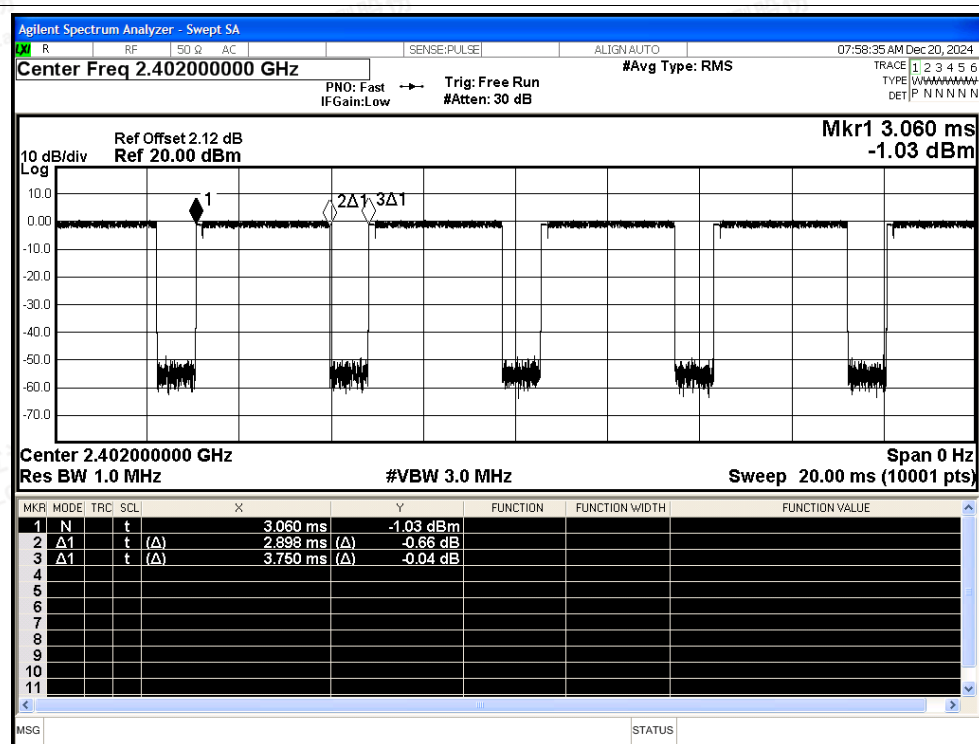
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

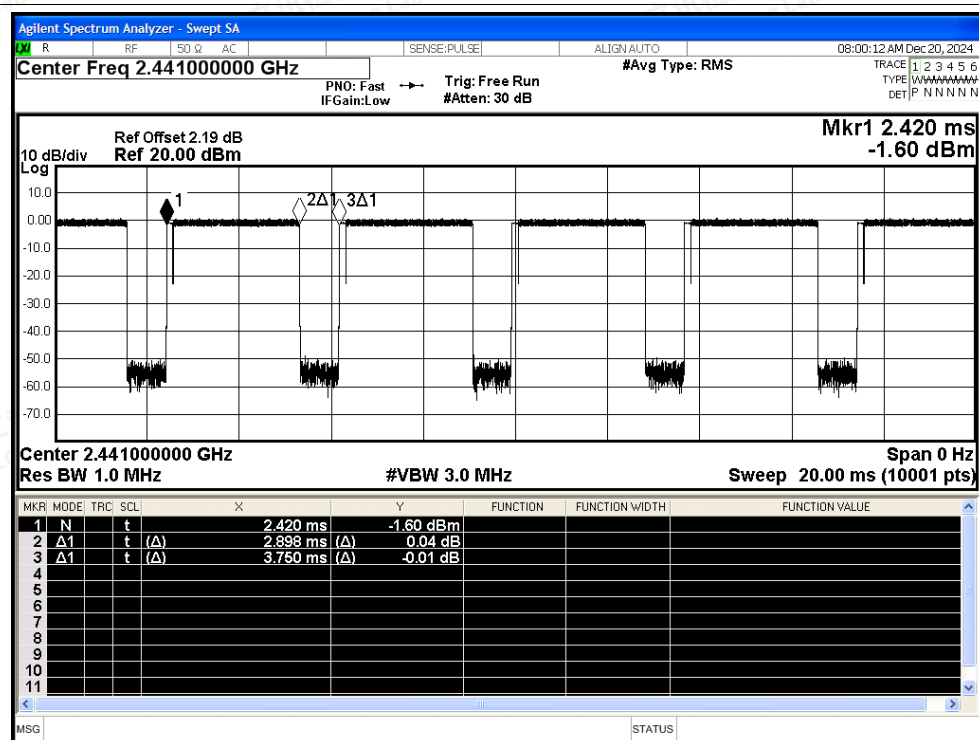
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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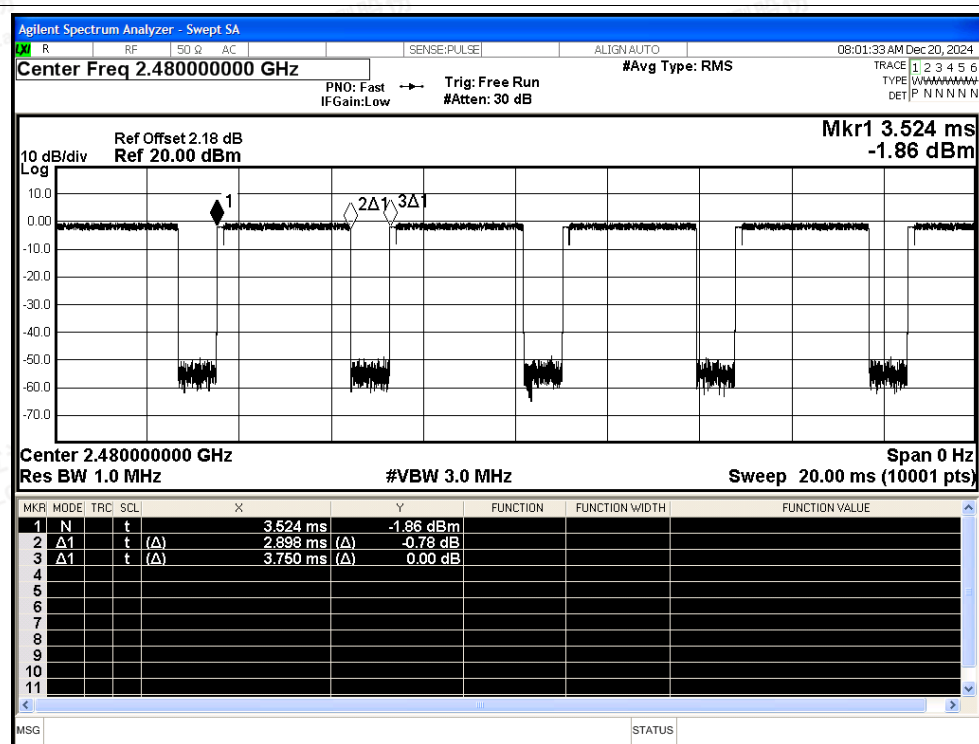
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

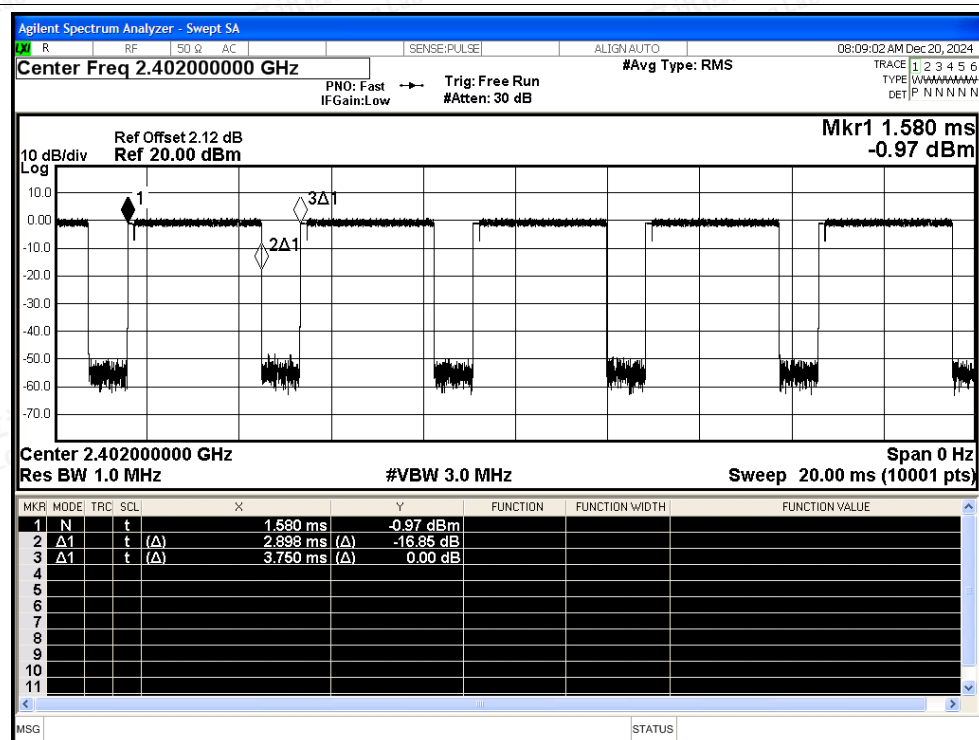
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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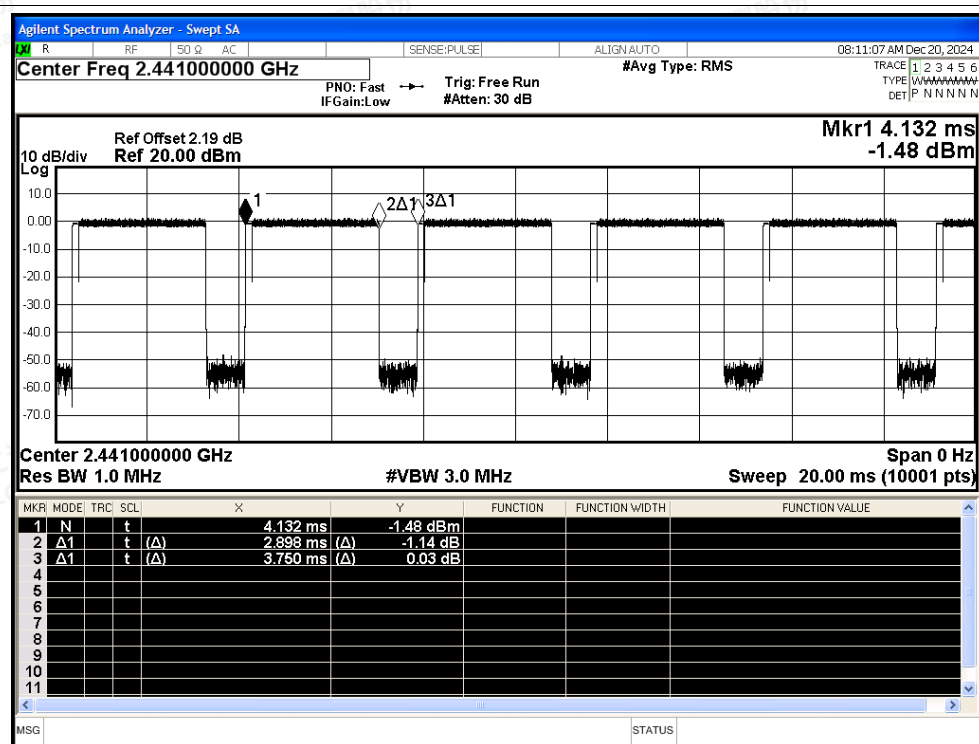
Scan code to check authenticity



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

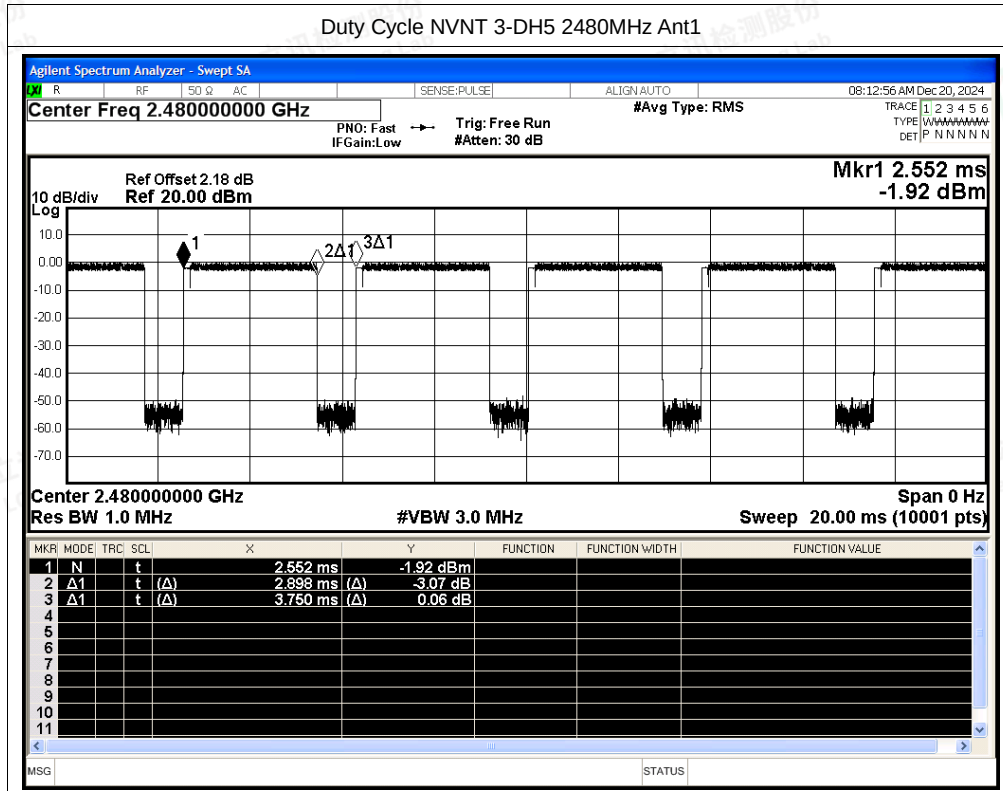


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A.9 Restrict Band

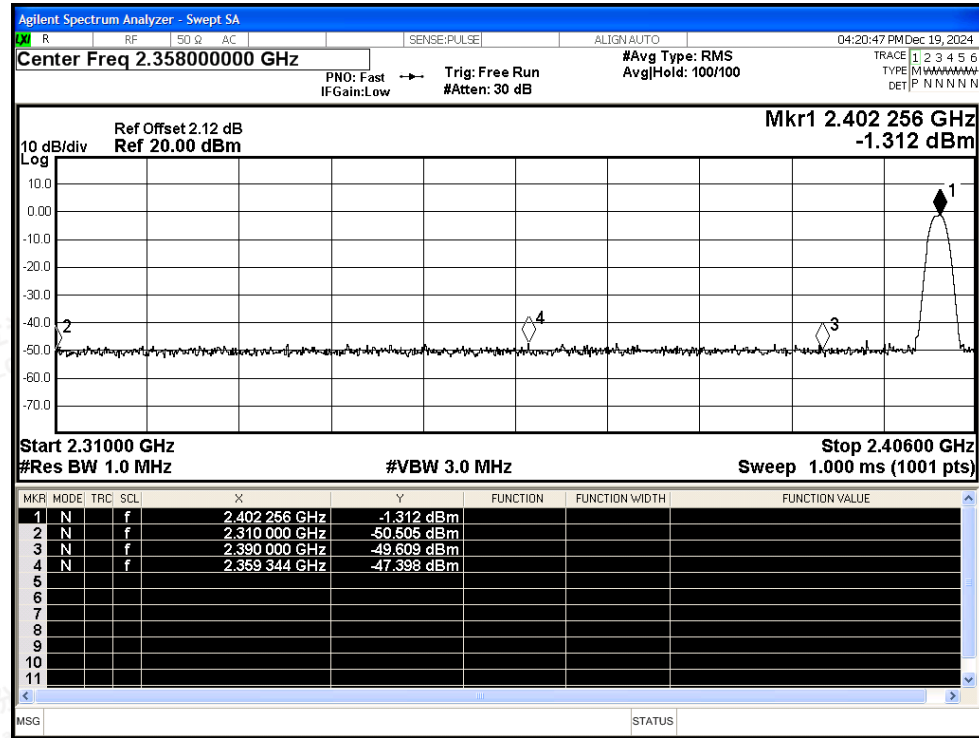
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.51	2	-	46.75	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.91	2	1.1	39.45	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2359.344	-47.4	2	-	49.86	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2361.36	-57.63	2	1.1	40.73	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.61	2	-	47.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.6	2	1.1	39.76	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.04	2	-	47.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.62	2	1.1	40.74	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.272	-46.09	2	-	51.17	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2489.704	-56.94	2	1.1	41.42	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.41	2	-	46.85	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.89	2	1.1	40.47	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.69	2	-	46.57	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.88	2	1.12	39.5	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2340.624	-46.86	2	-	50.4	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2385.552	-57.82	2	1.12	40.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.12	2	-	46.14	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.5	2	1.12	39.88	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.27	2	-	46.99	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.13	2	1.12	40.25	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2497.696	-46.41	2	-	50.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2489.56	-56.98	2	1.12	41.4	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.36	2	-	46.9	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.27	2	1.12	40.11	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.63	2	-	46.63	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.76	2	1.12	39.62	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2336.88	-47.22	2	-	50.04	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2374.032	-57.75	2	1.12	40.63	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.43	2	-	45.83	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.65	2	1.12	39.73	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.98	2	-	49.28	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.38	2	1.12	41	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.896	-45.3	2	-	51.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.632	-57.11	2	1.12	41.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.5	2	-	48.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.88	2	1.12	40.5	Average	54	Pass



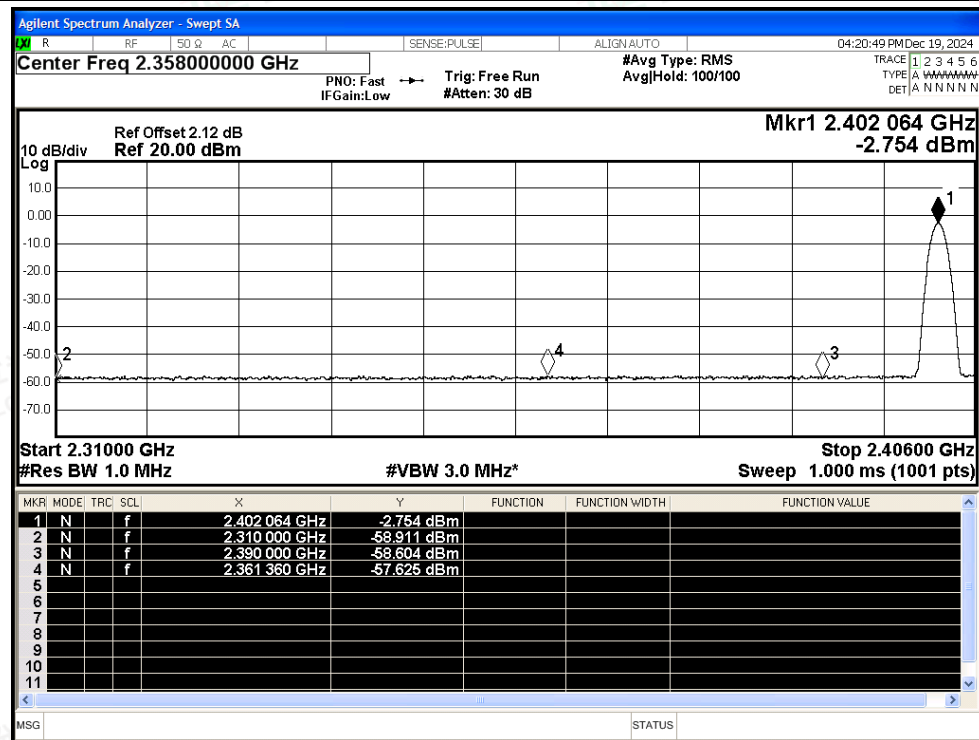


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

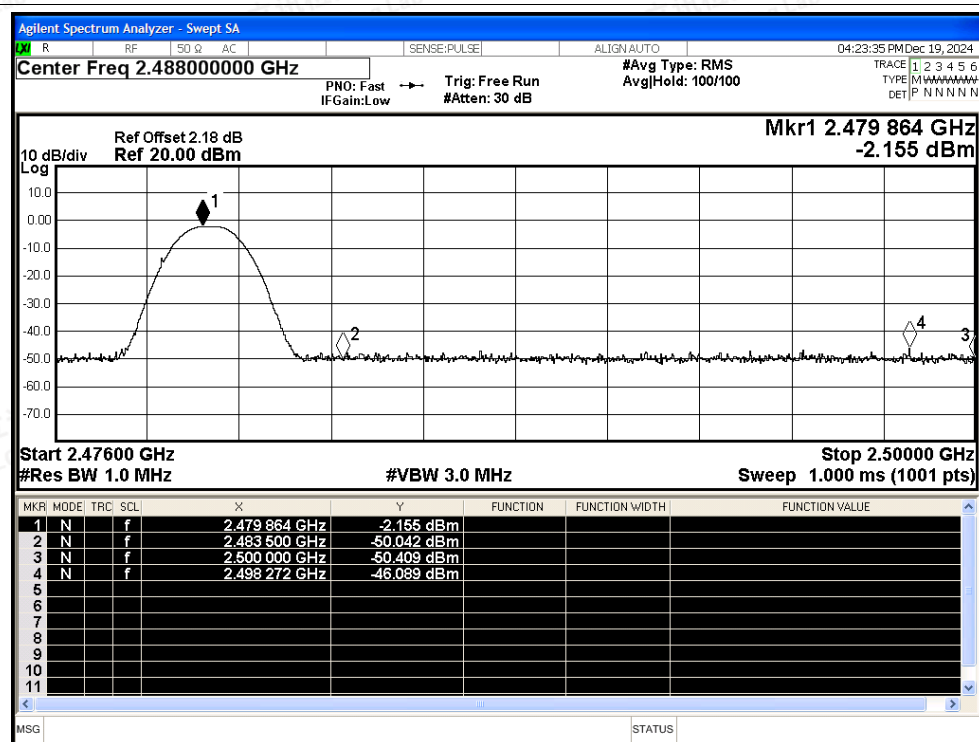
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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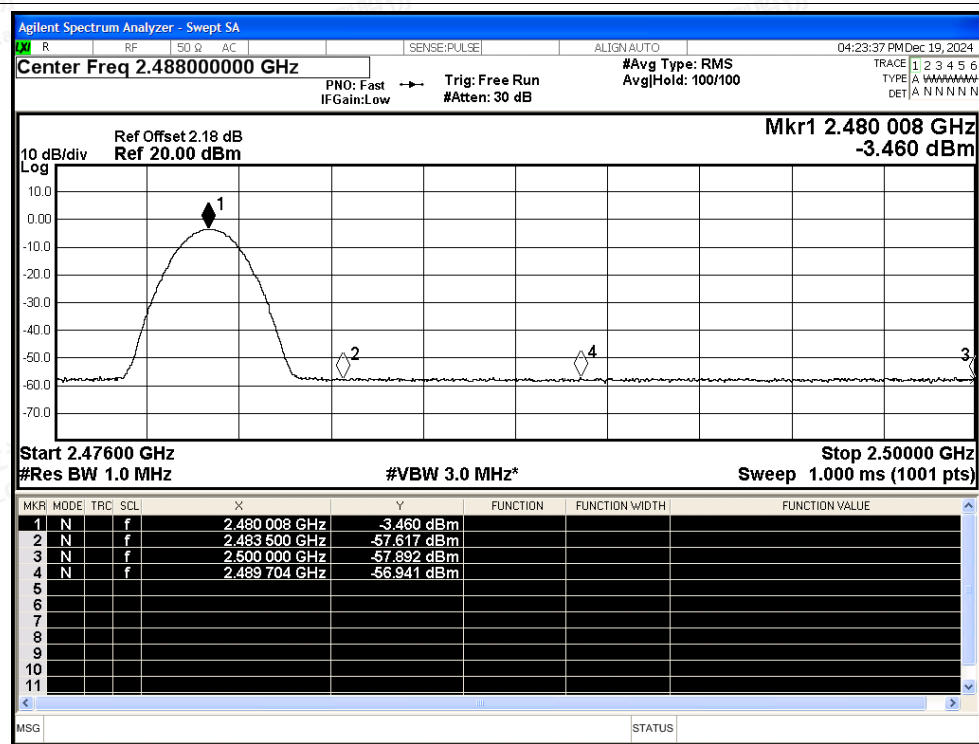
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

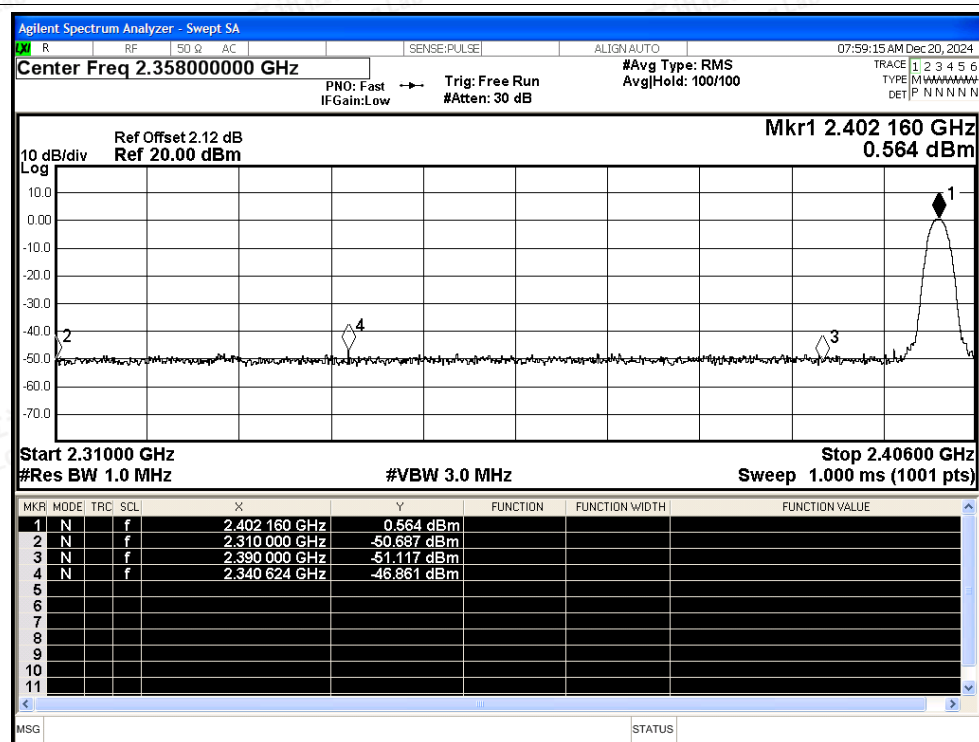


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

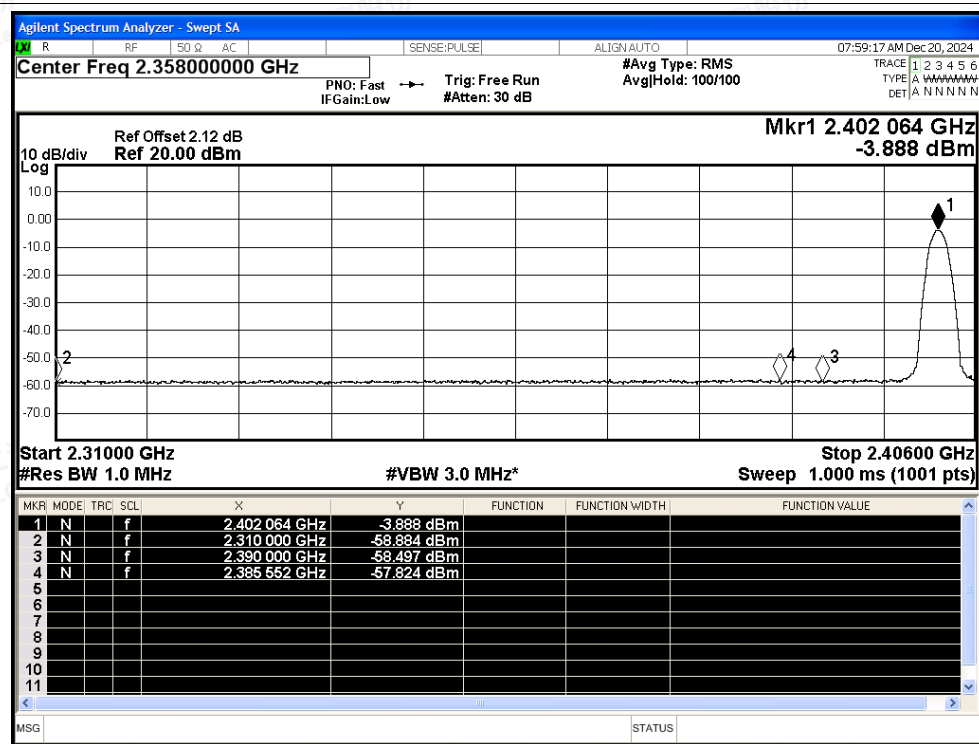




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

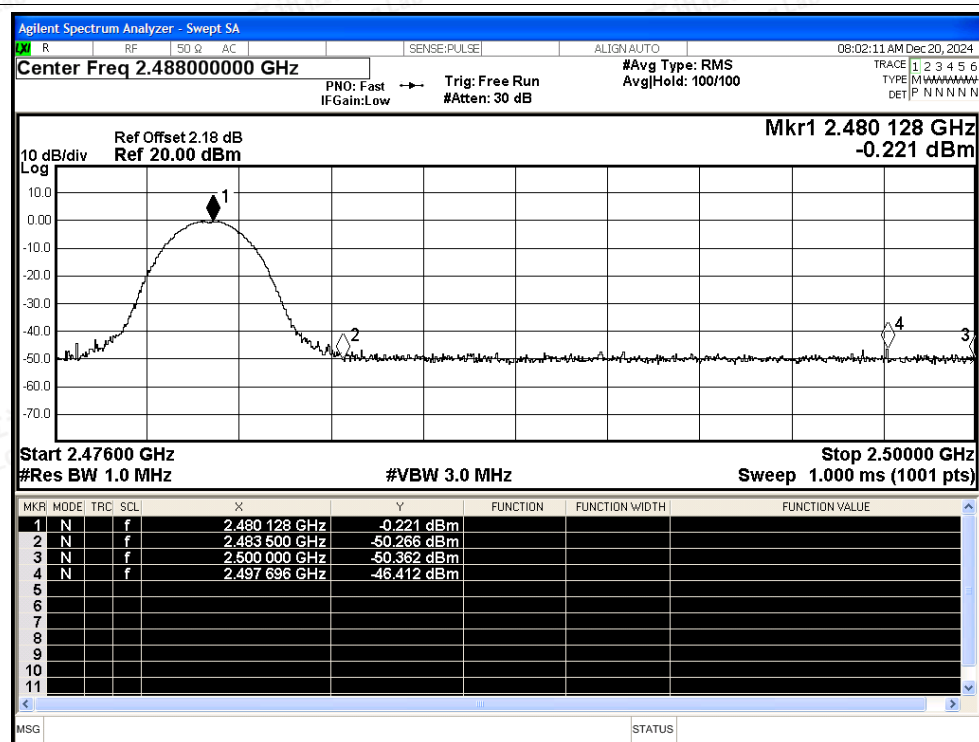
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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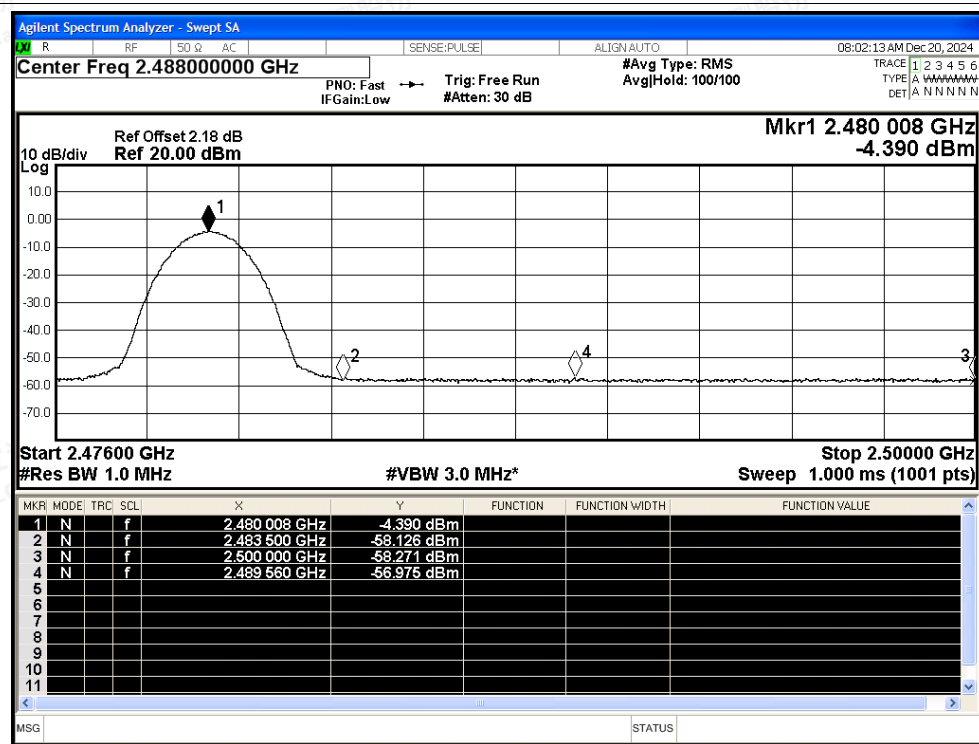
Scan code to check authenticity



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.

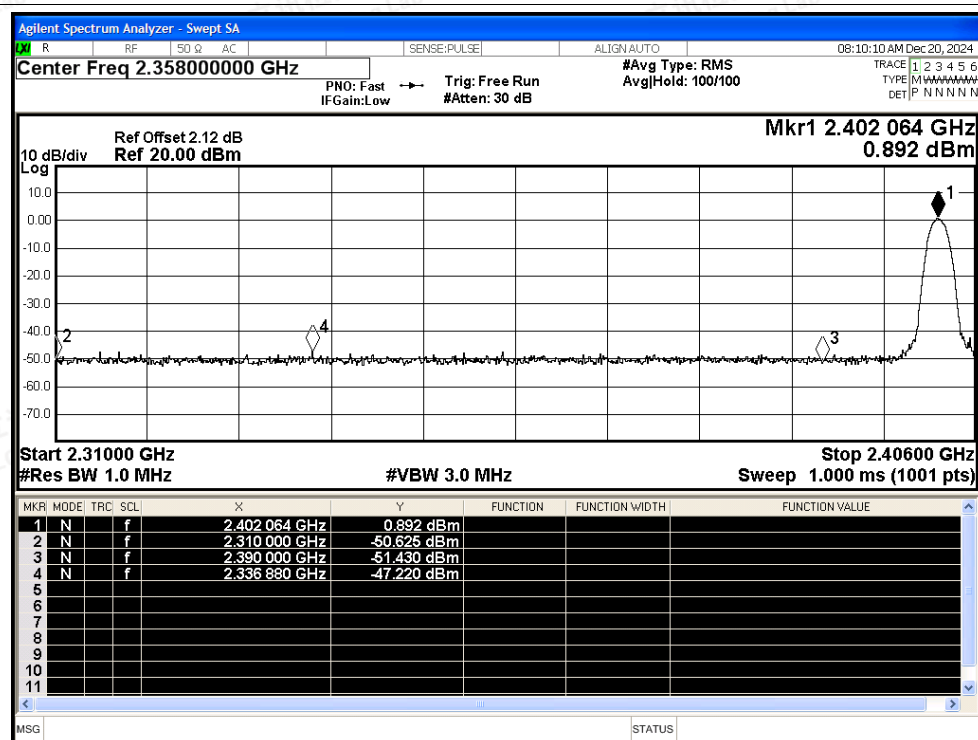
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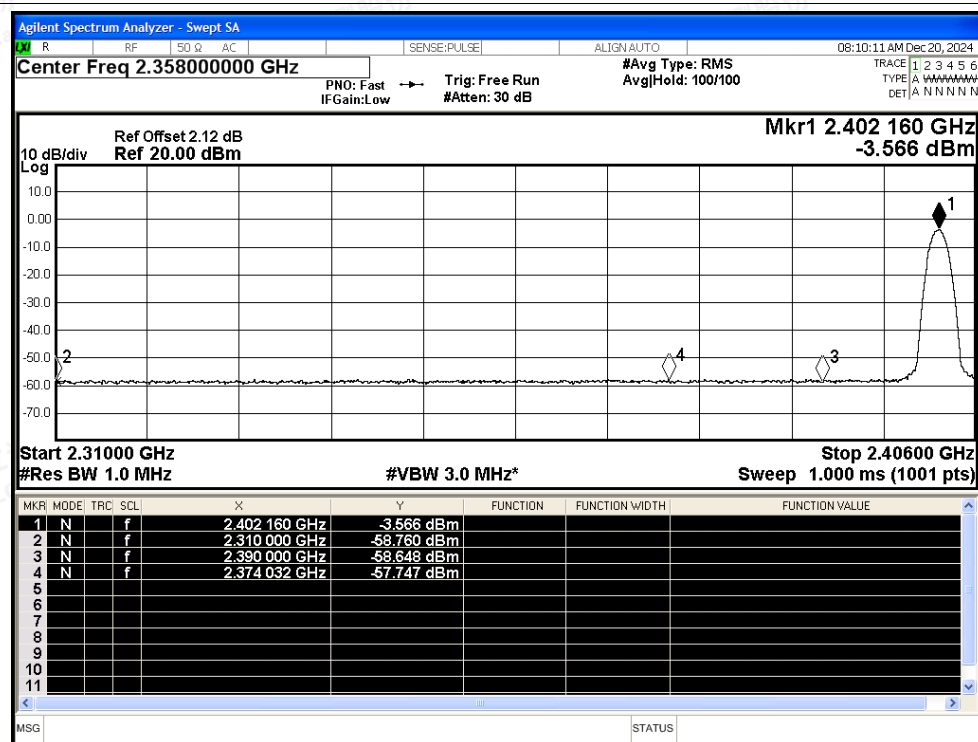
Scan code to check authenticity



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.

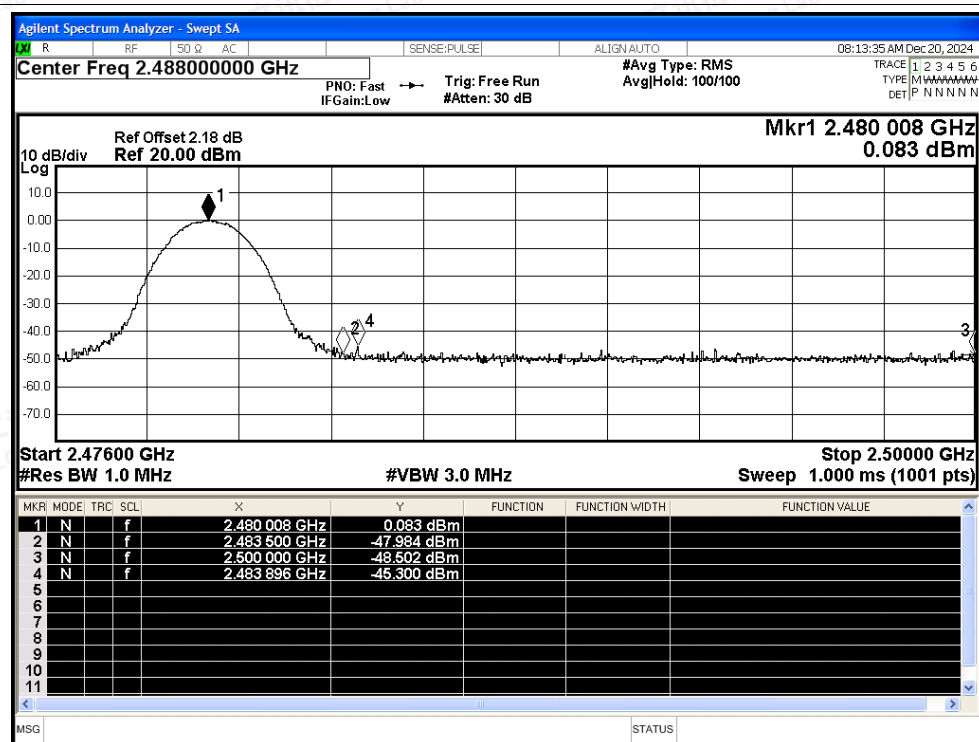
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

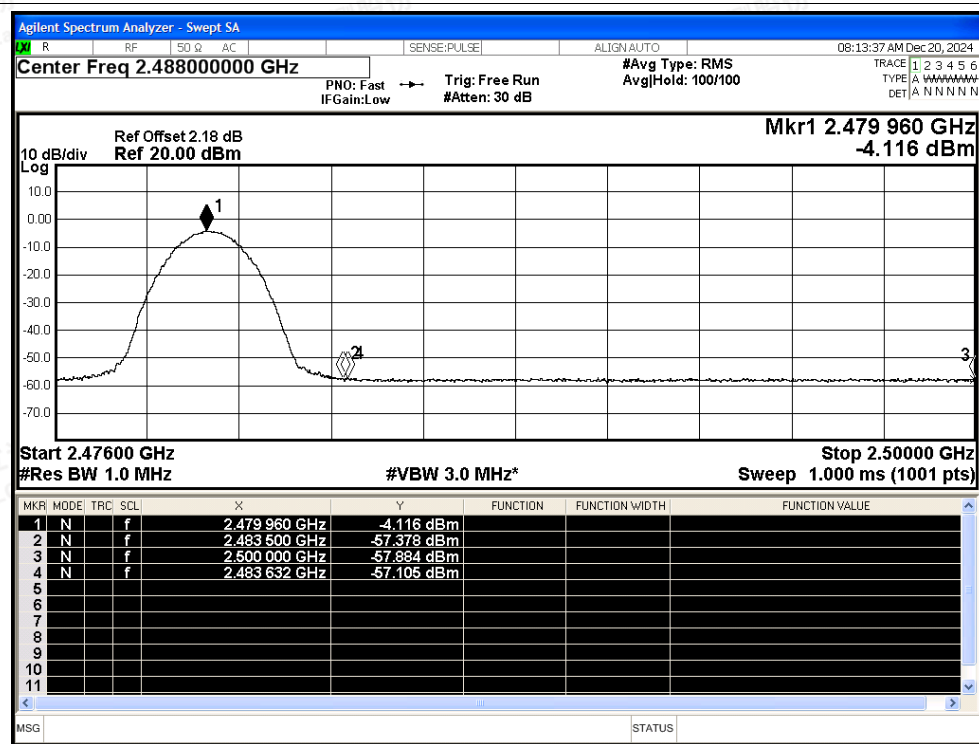
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