



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: GNSS RECEIVER

Test Model: G7Q

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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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	0.9928	No Limit	Pass
NVNT	1-DH5	2441	Ant1	1.006	No Limit	Pass
NVNT	1-DH5	2480	Ant1	0.9938	No Limit	Pass
NVNT	2-DH5	2402	Ant1	1.283	No Limit	Pass
NVNT	2-DH5	2441	Ant1	1.282	No Limit	Pass
NVNT	2-DH5	2480	Ant1	1.34	No Limit	Pass
NVNT	3-DH5	2402	Ant1	1.281	No Limit	Pass
NVNT	3-DH5	2441	Ant1	1.31	No Limit	Pass
NVNT	3-DH5	2480	Ant1	1.293	No Limit	Pass

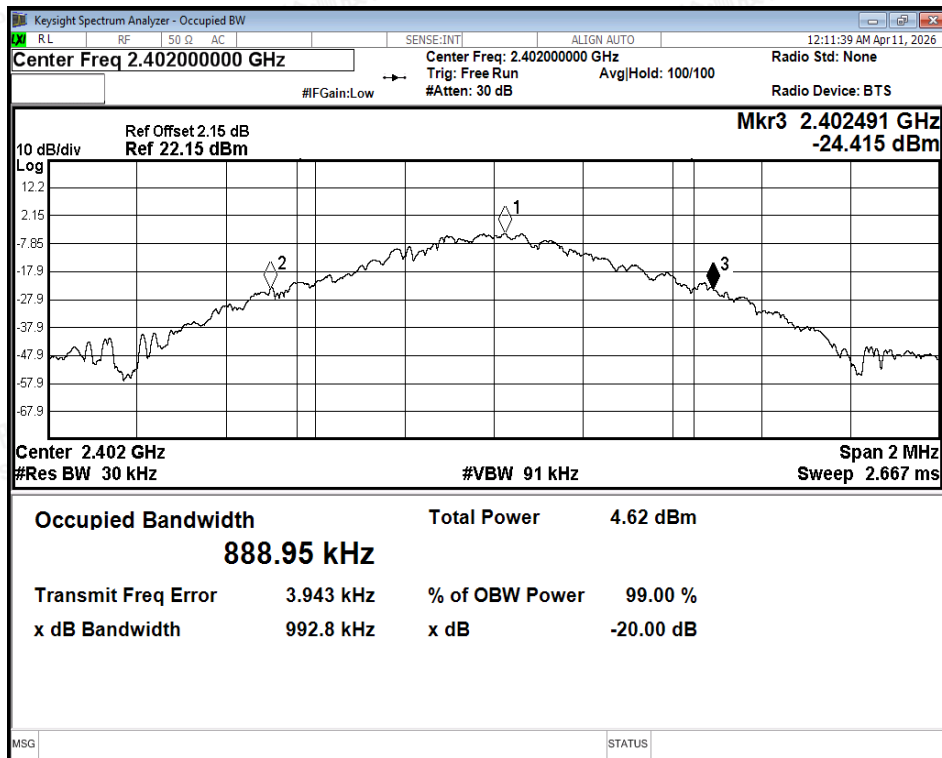


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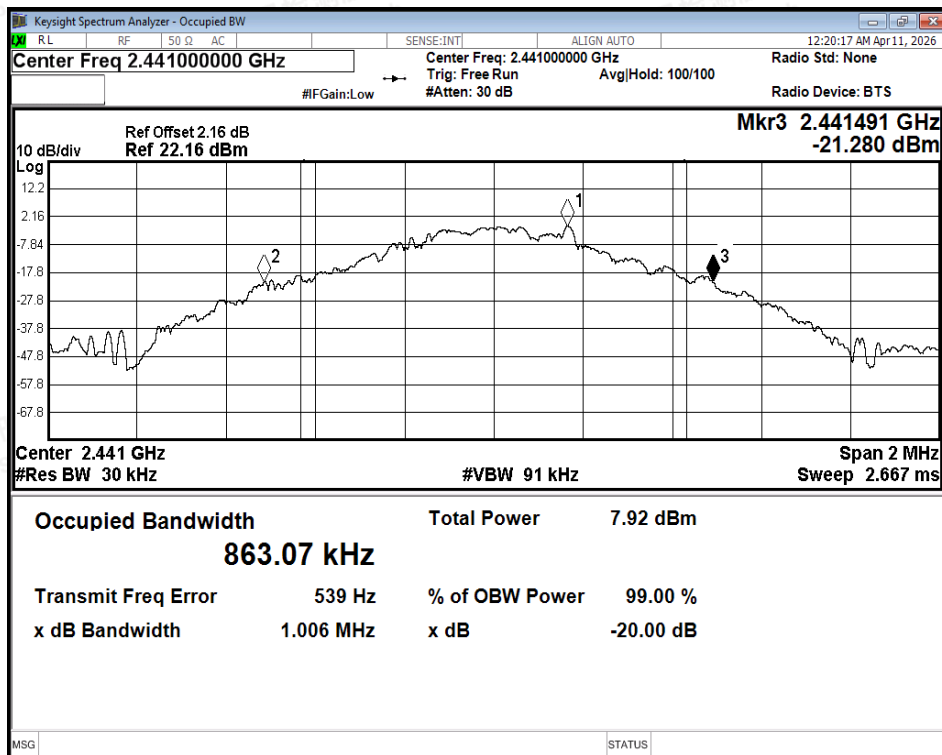
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-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

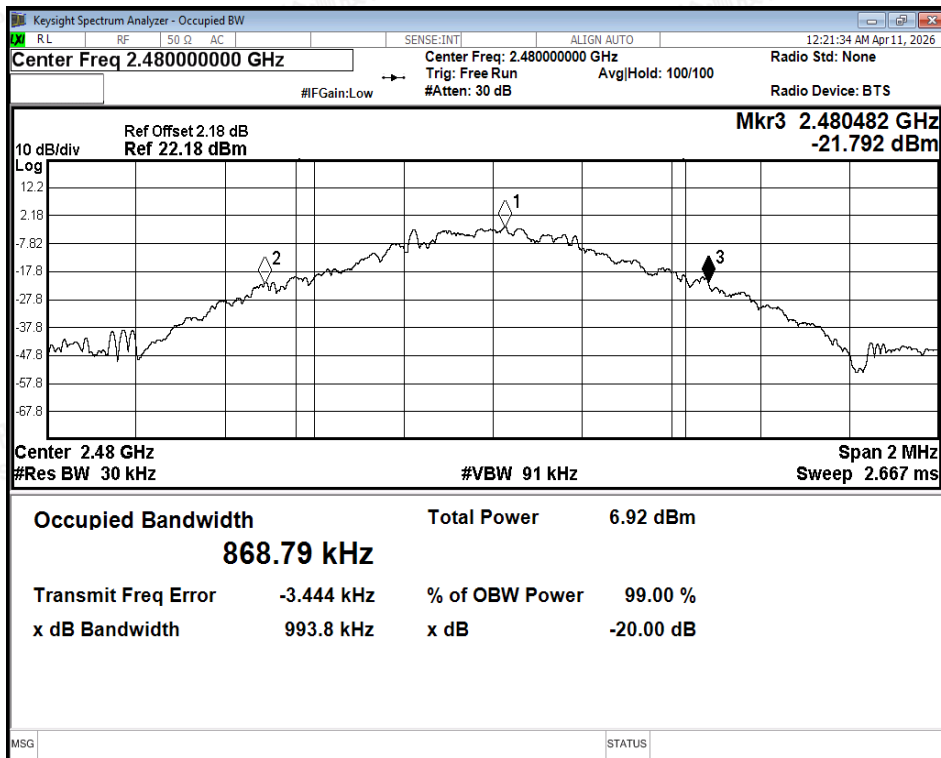


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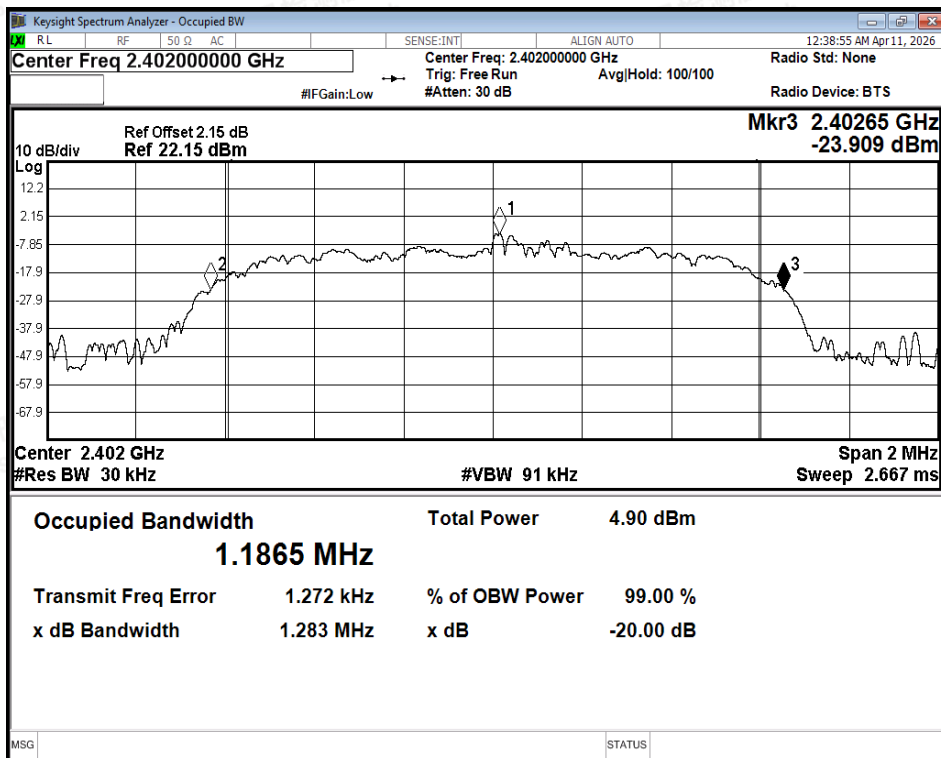
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

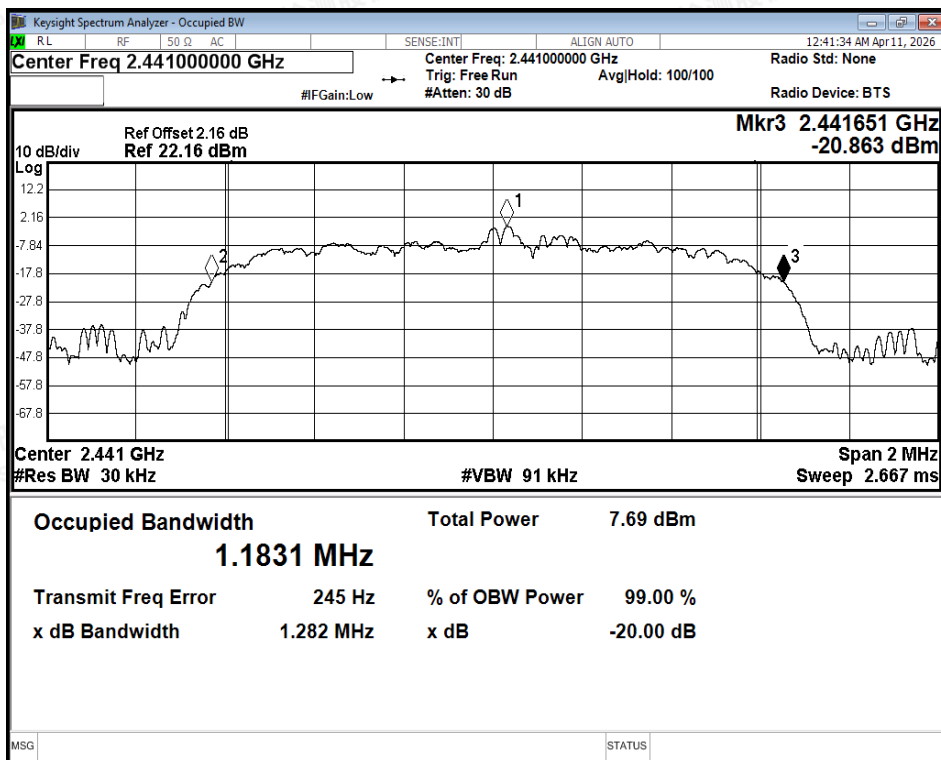


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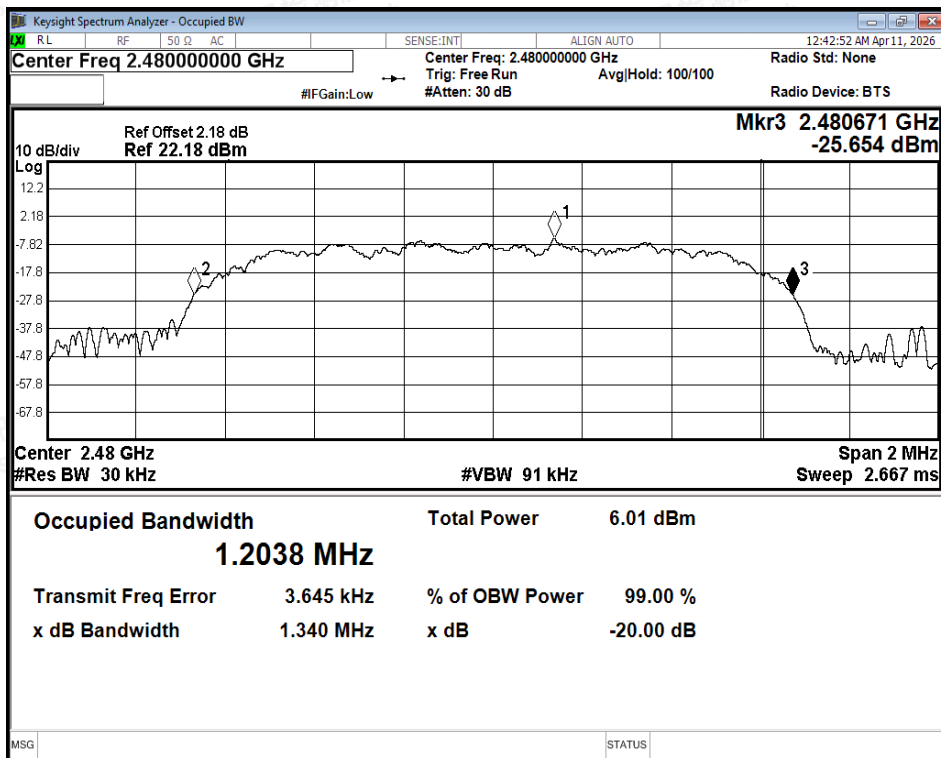
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

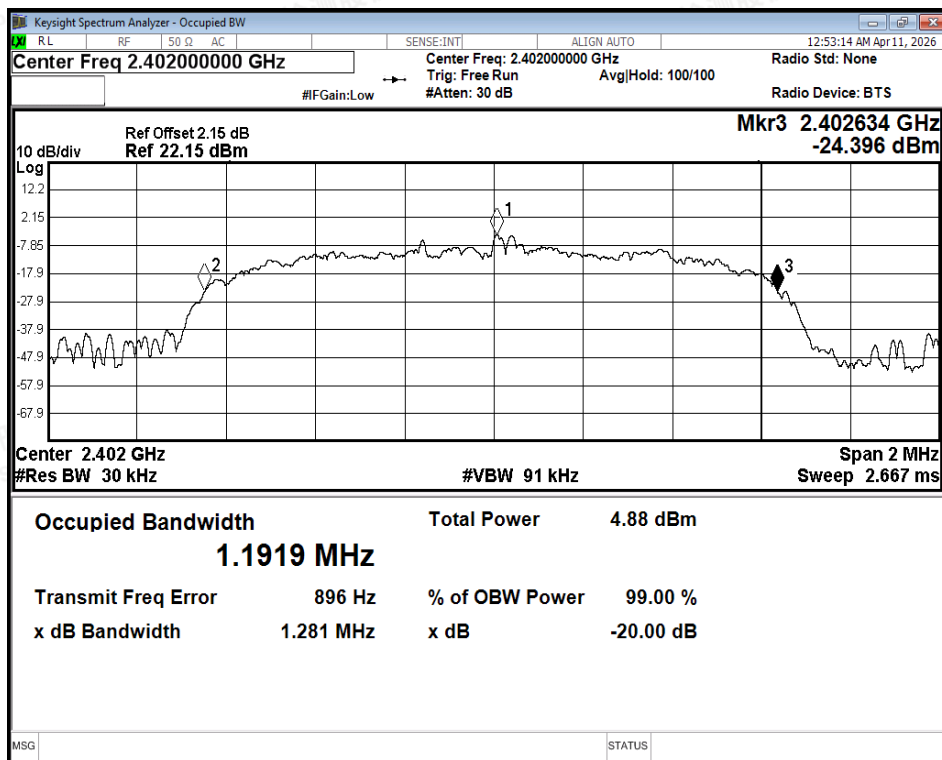


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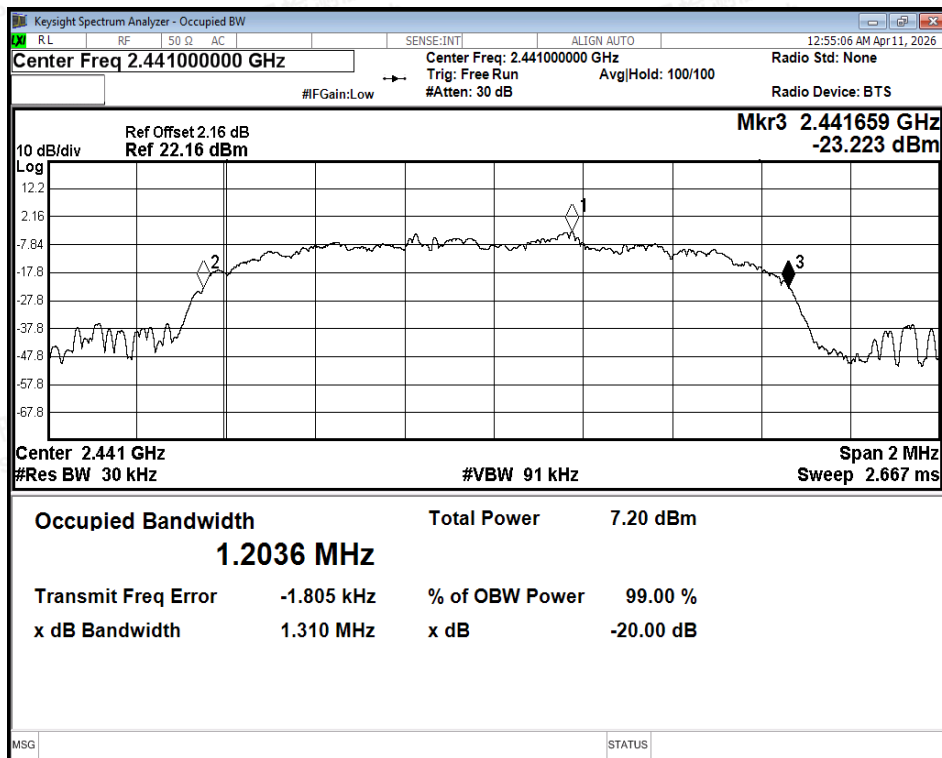
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

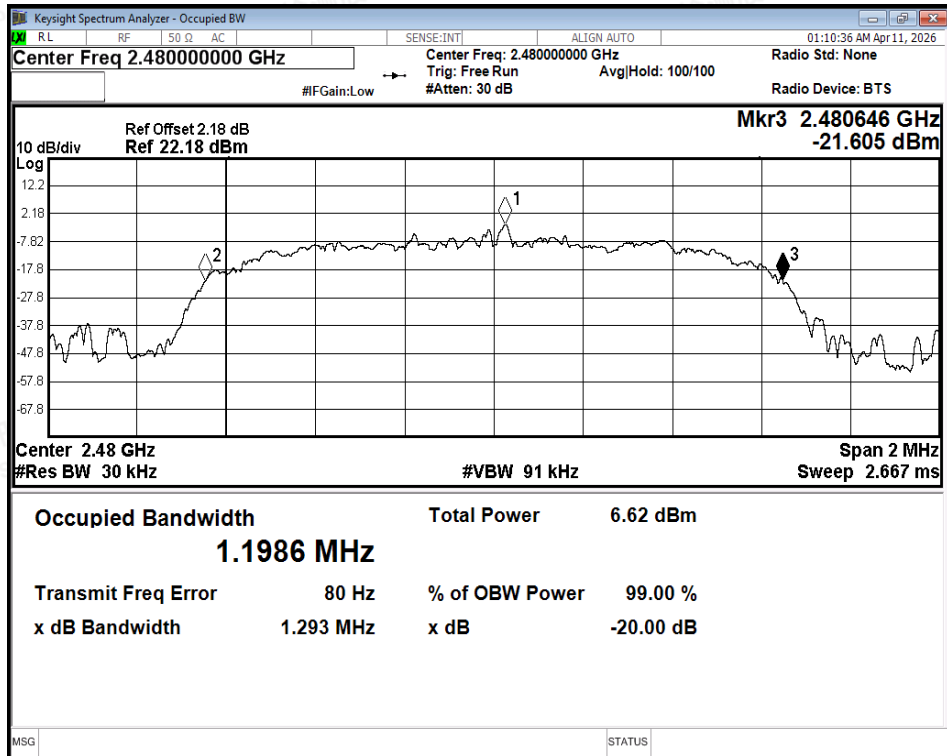


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.22	30	Pass
NVNT	1-DH5	2441	Ant1	1.49	30	Pass
NVNT	1-DH5	2480	Ant1	0.48	30	Pass
NVNT	2-DH5	2402	Ant1	0.59	30	Pass
NVNT	2-DH5	2441	Ant1	3.18	30	Pass
NVNT	2-DH5	2480	Ant1	2.27	30	Pass
NVNT	3-DH5	2402	Ant1	0.99	30	Pass
NVNT	3-DH5	2441	Ant1	3.53	30	Pass
NVNT	3-DH5	2480	Ant1	2.55	30	Pass

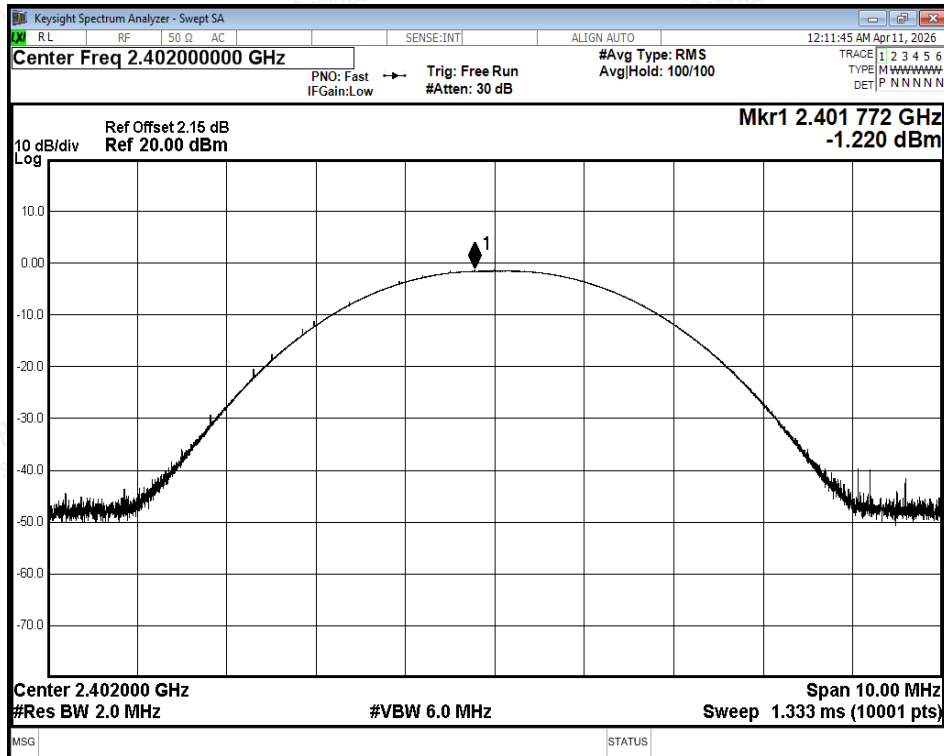


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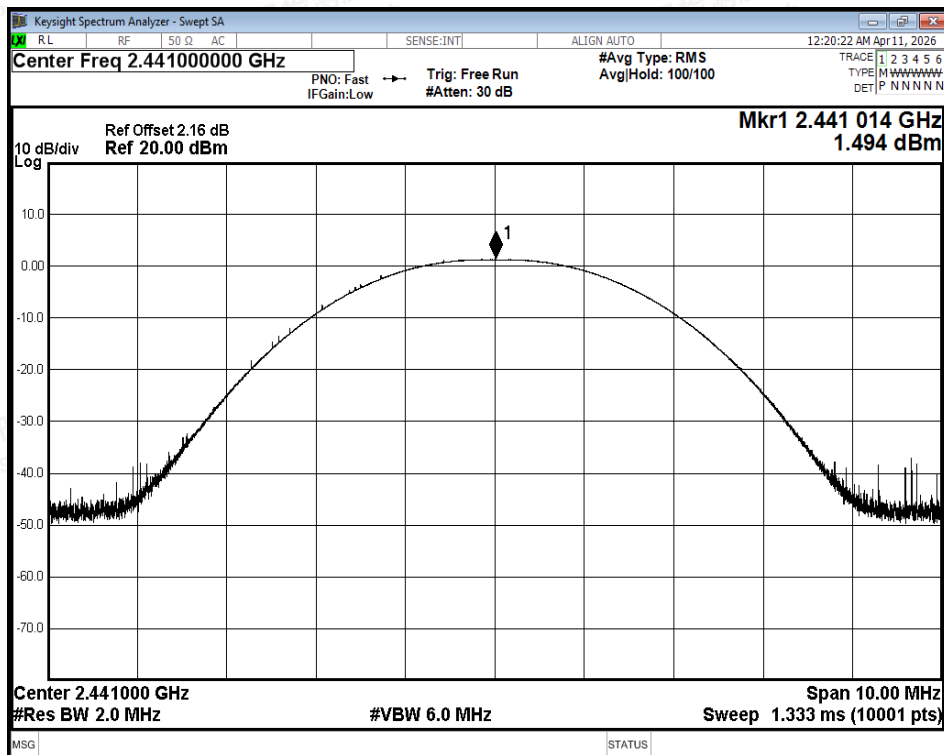
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Peak Power NVNT 1-DH5 2402MHz Ant1



Peak Power NVNT 1-DH5 2441MHz Ant1

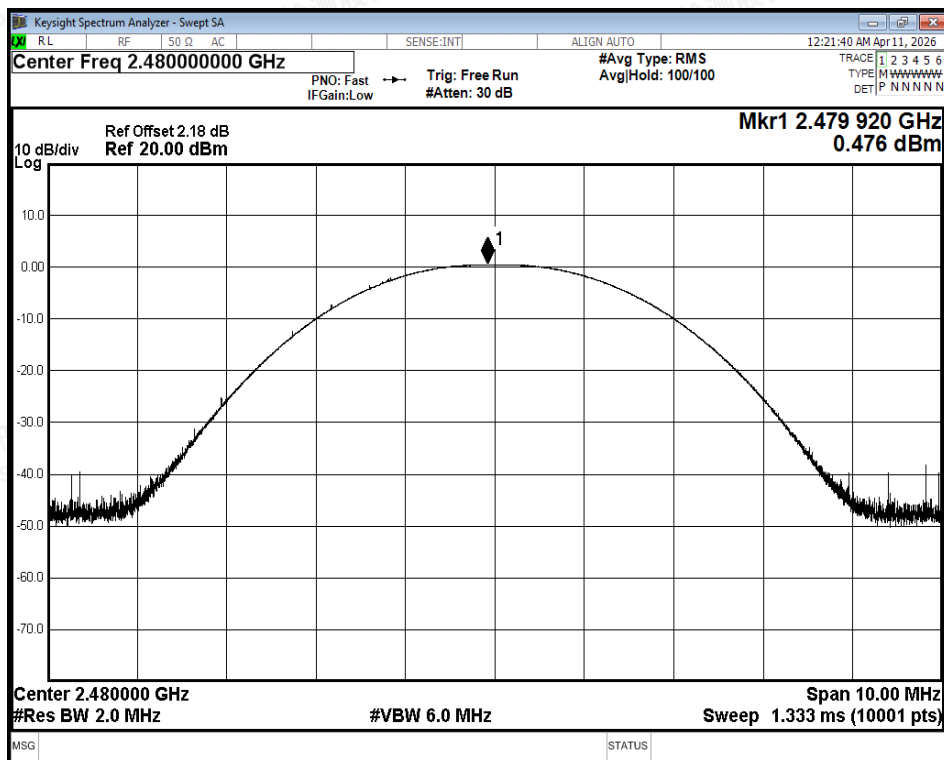


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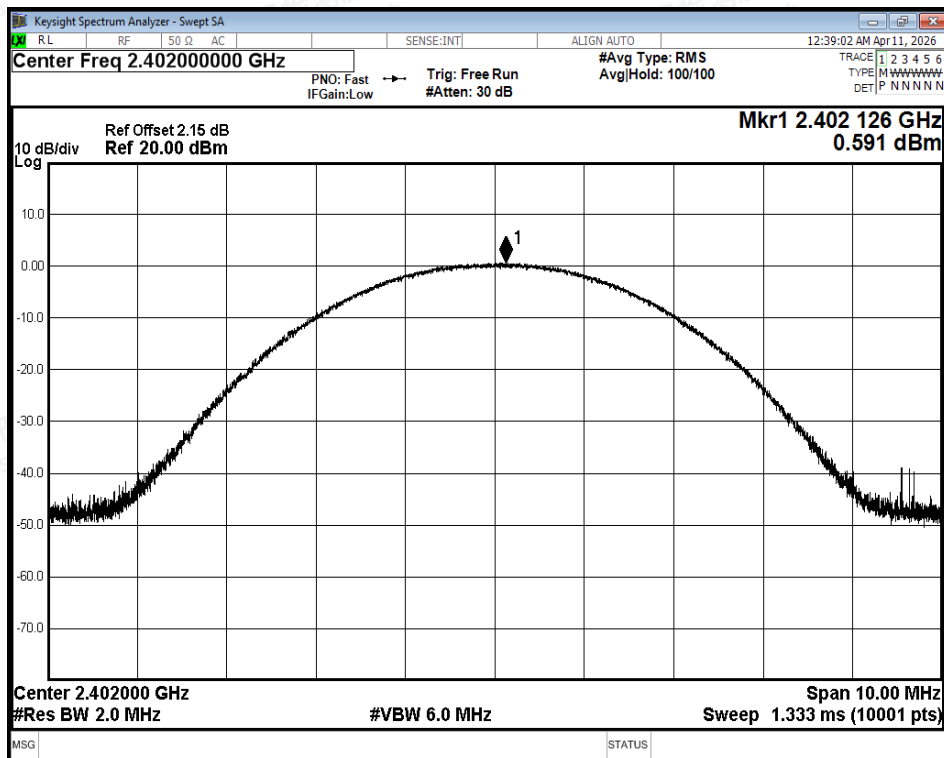
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Peak Power NVNT 1-DH5 2480MHz Ant1



Peak Power NVNT 2-DH5 2402MHz Ant1

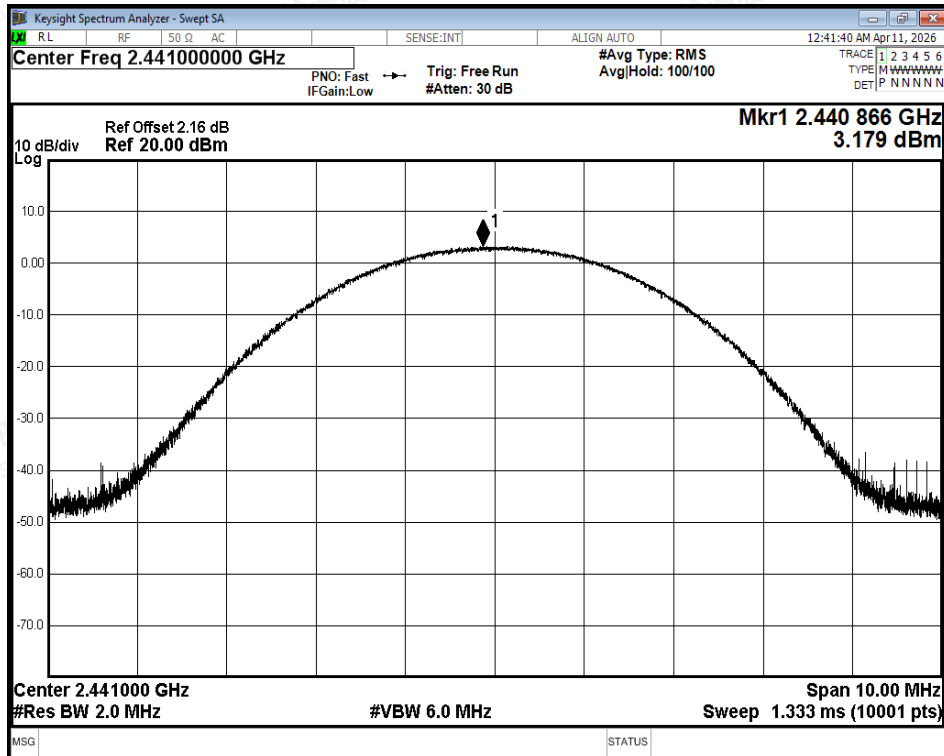


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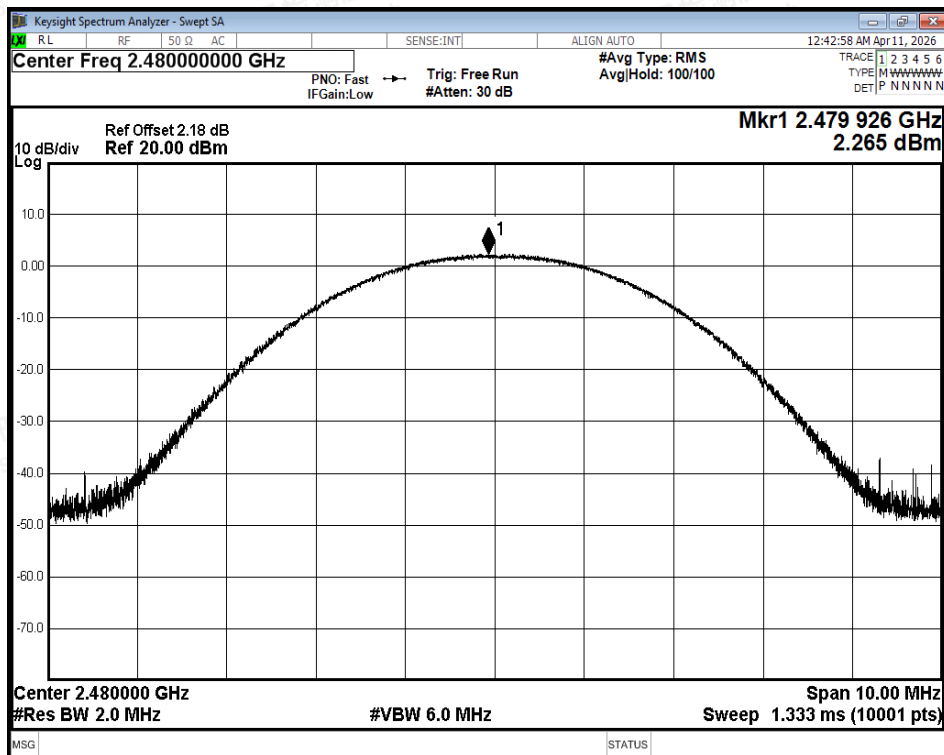
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Peak Power NVNT 2-DH5 2441MHz Ant1



Peak Power NVNT 2-DH5 2480MHz Ant1

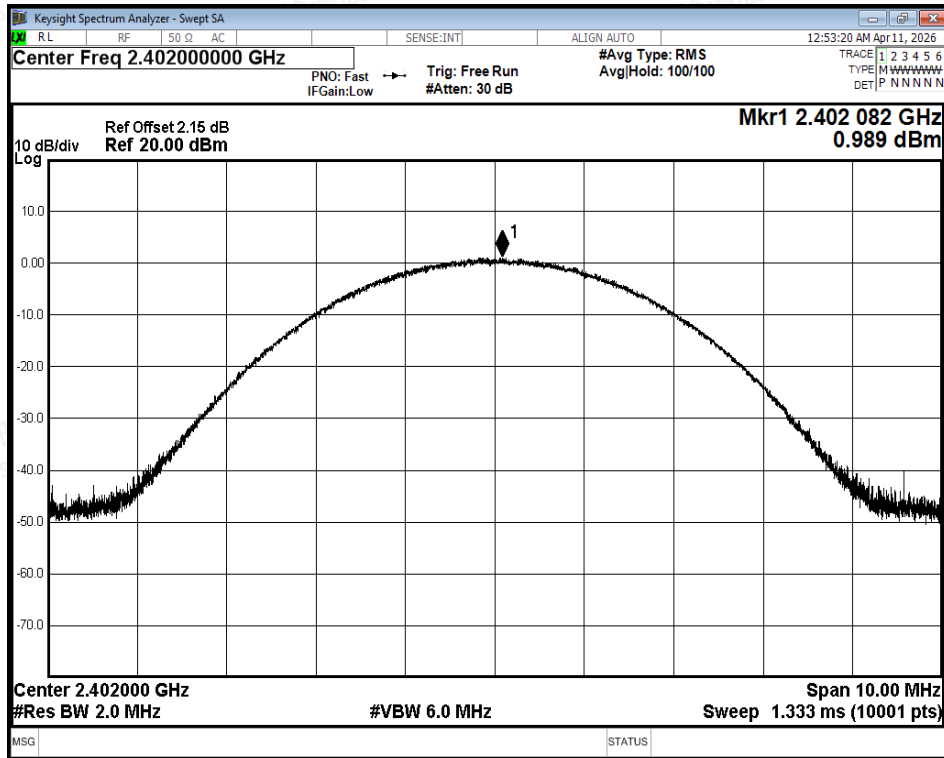


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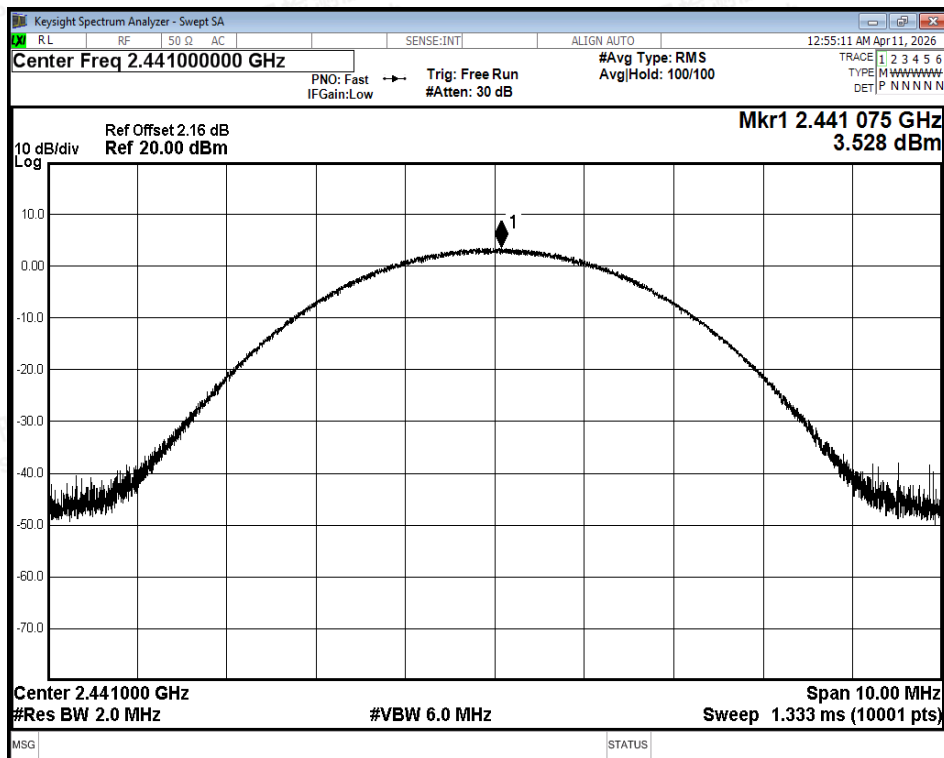
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Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

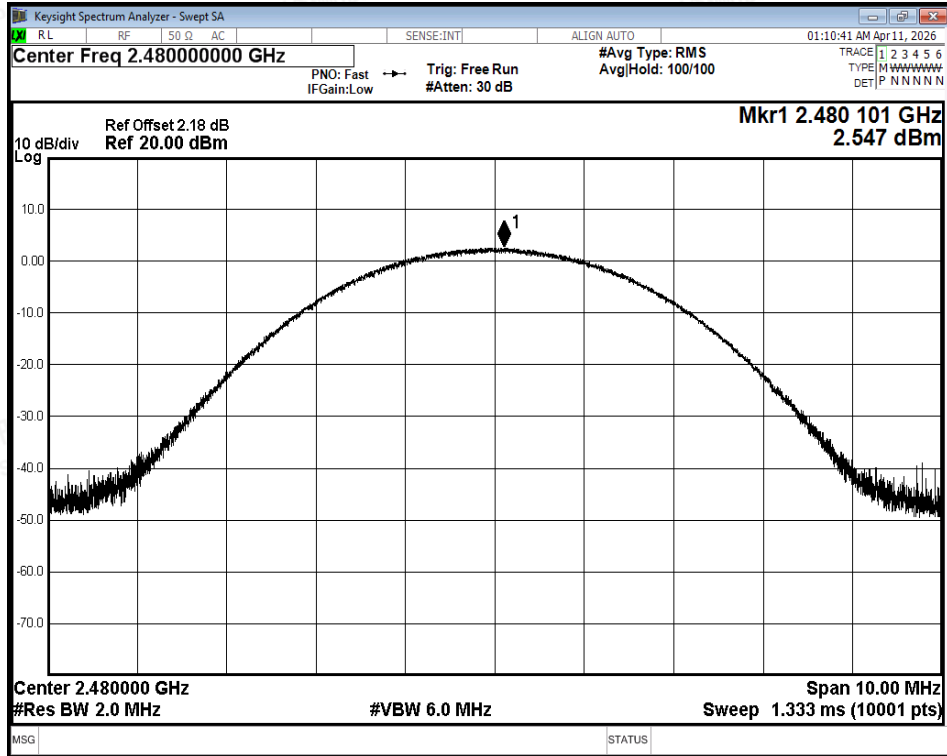


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Peak Power NVNT 3-DH5 2480MHz Ant1



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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	2401.84	2402.83	0.99	0.662	Pass
NVNT	2-DH5	Ant1	2402.03	2403.028	0.998	0.855	Pass
NVNT	3-DH5	Ant1	2402.028	2403.032	1.004	0.864	Pass

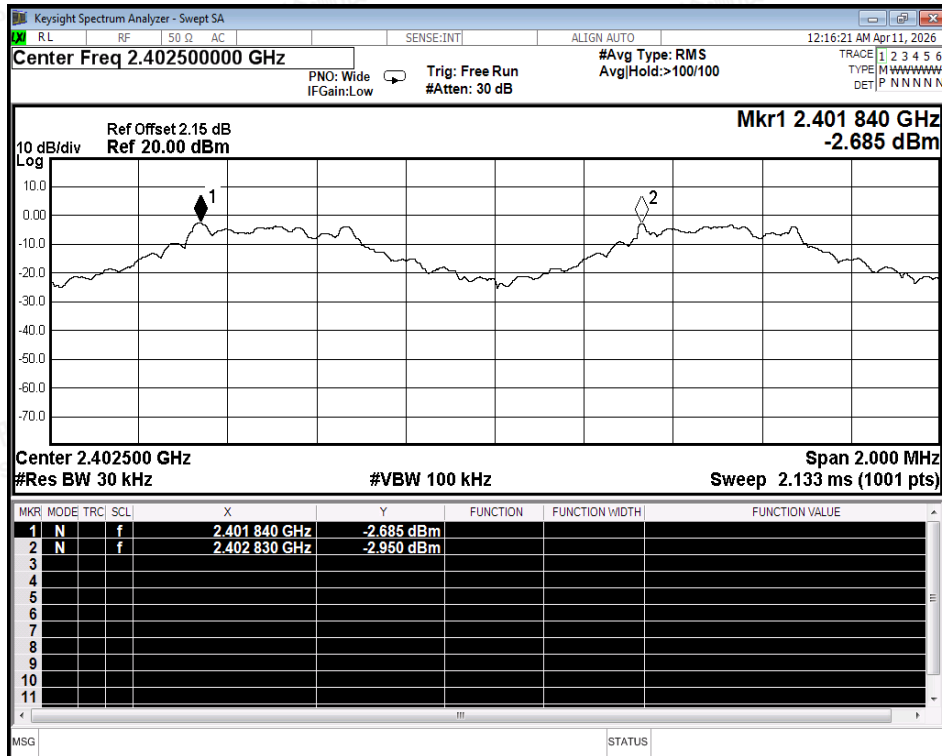


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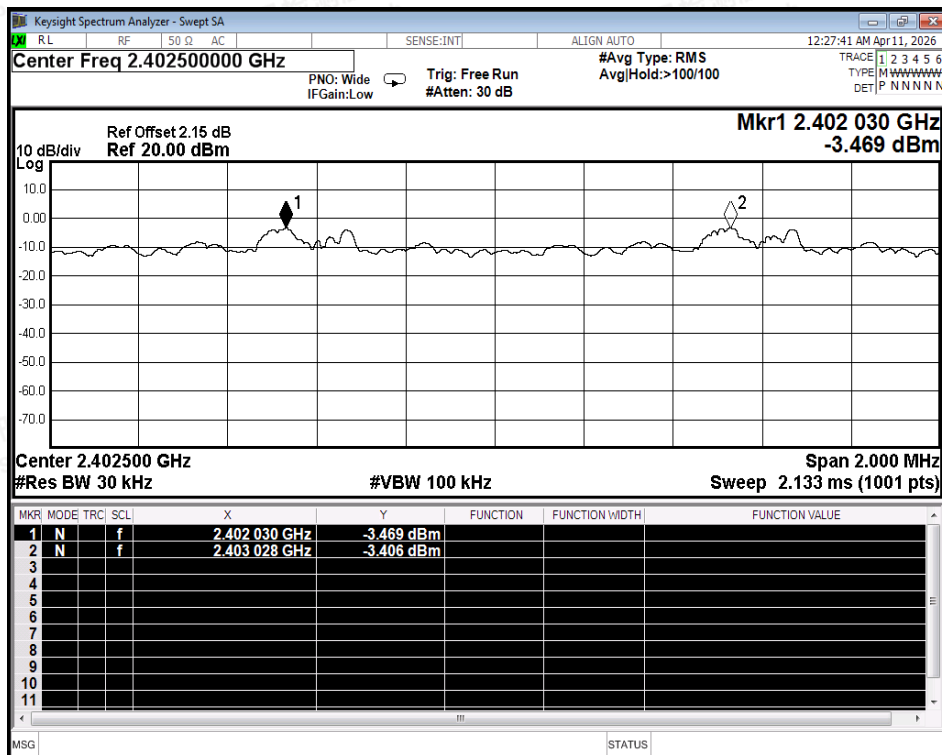
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CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

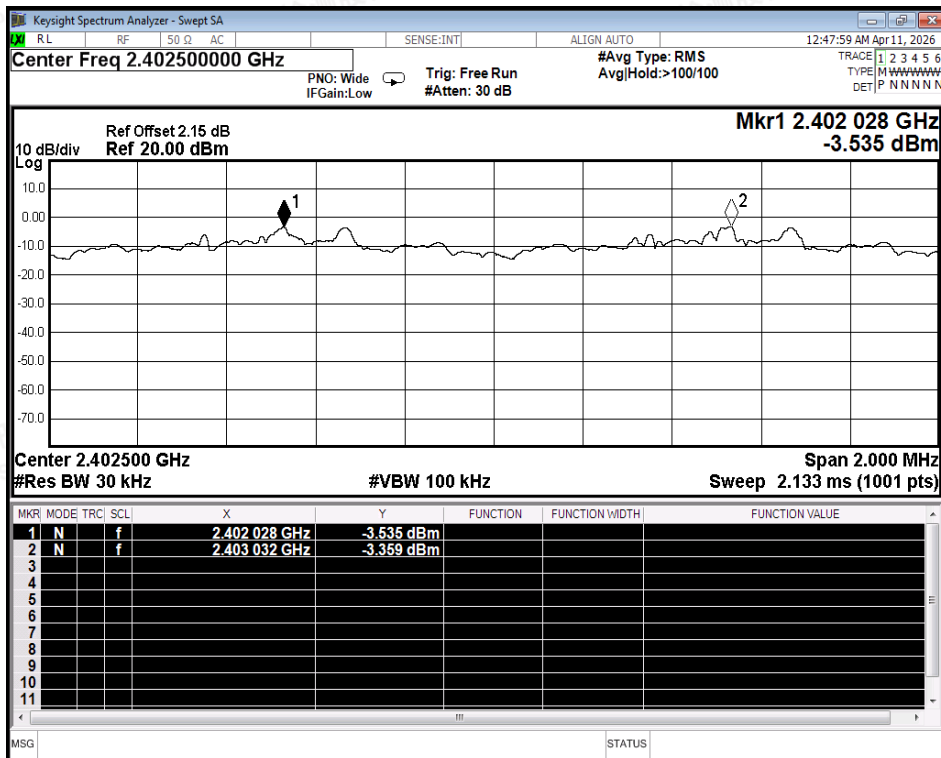


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CFS NVNT 3-DH5 2402MHz Ant1



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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	2.909	319.99	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	282.24	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.882	273.79	95	31600	400	Pass

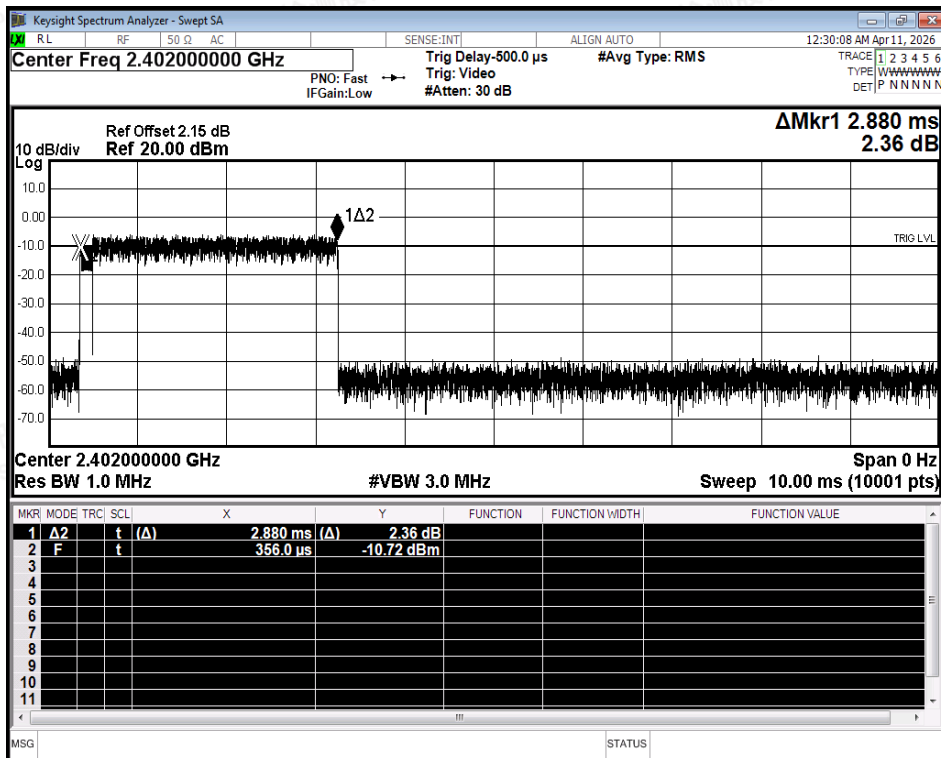


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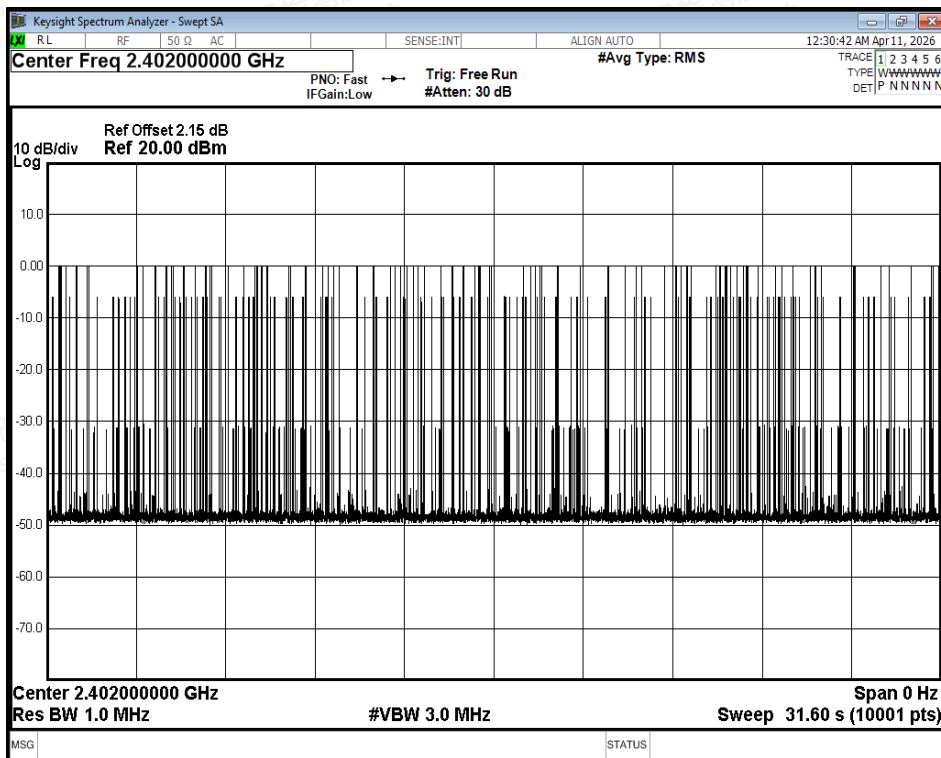
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

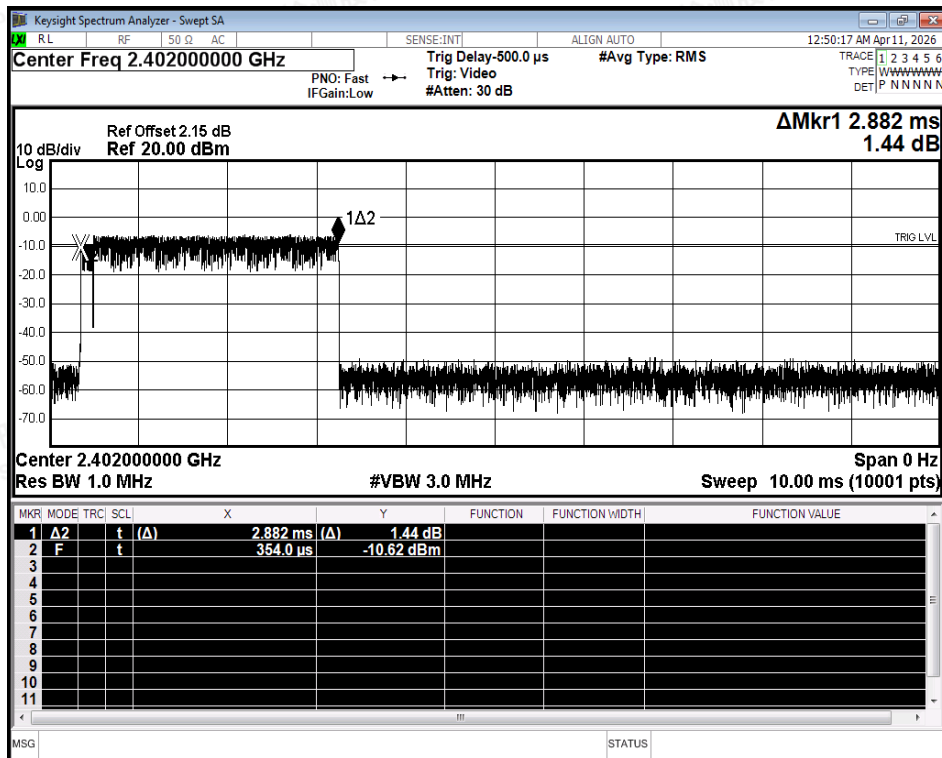


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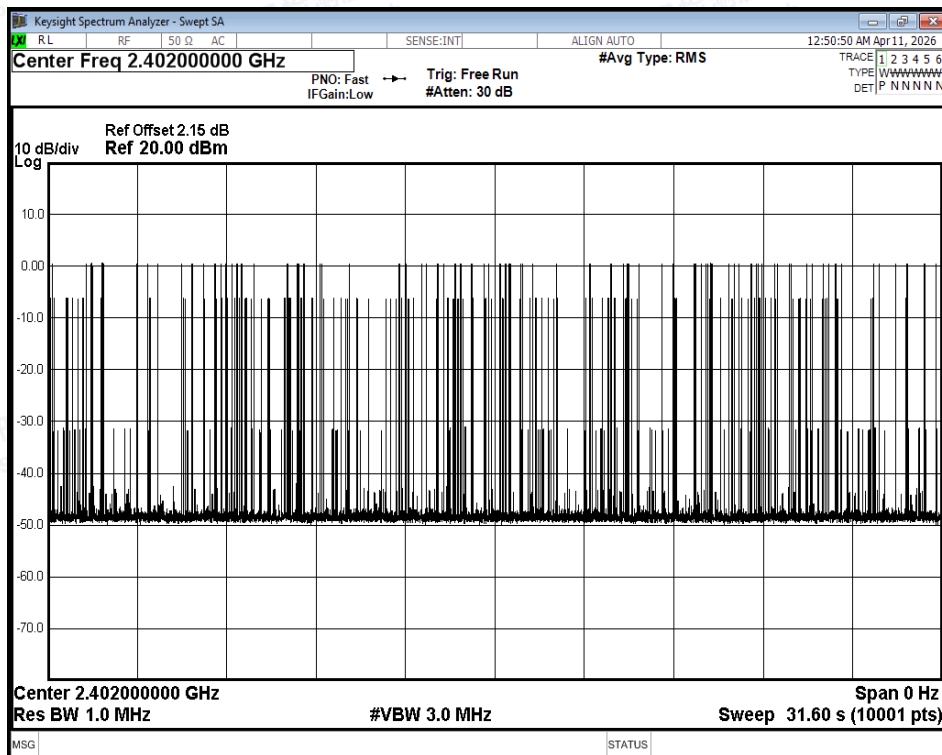
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

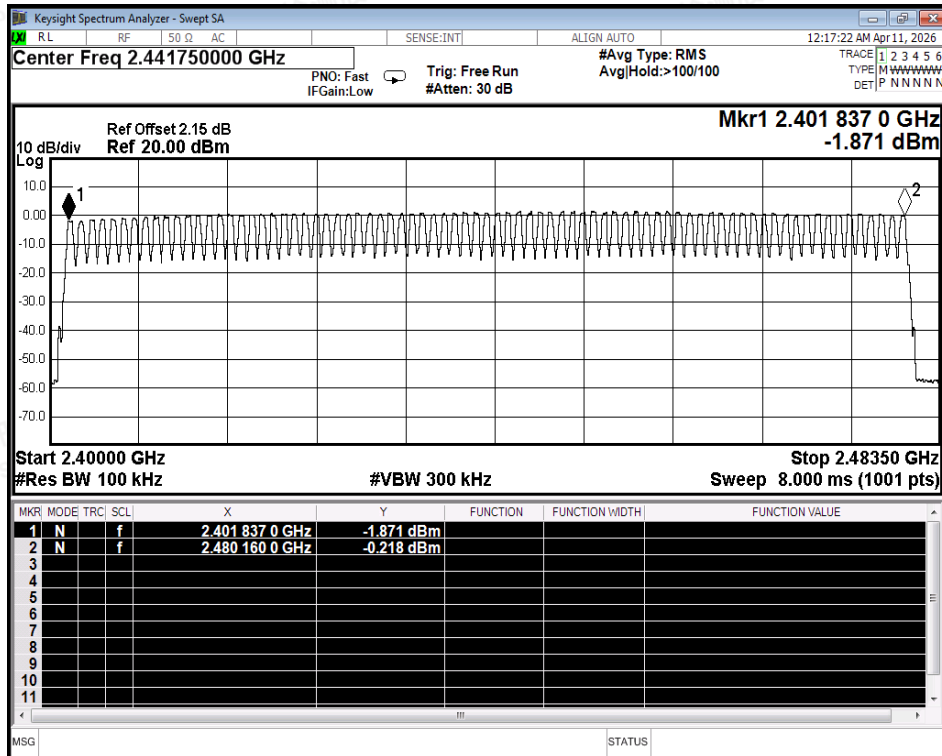


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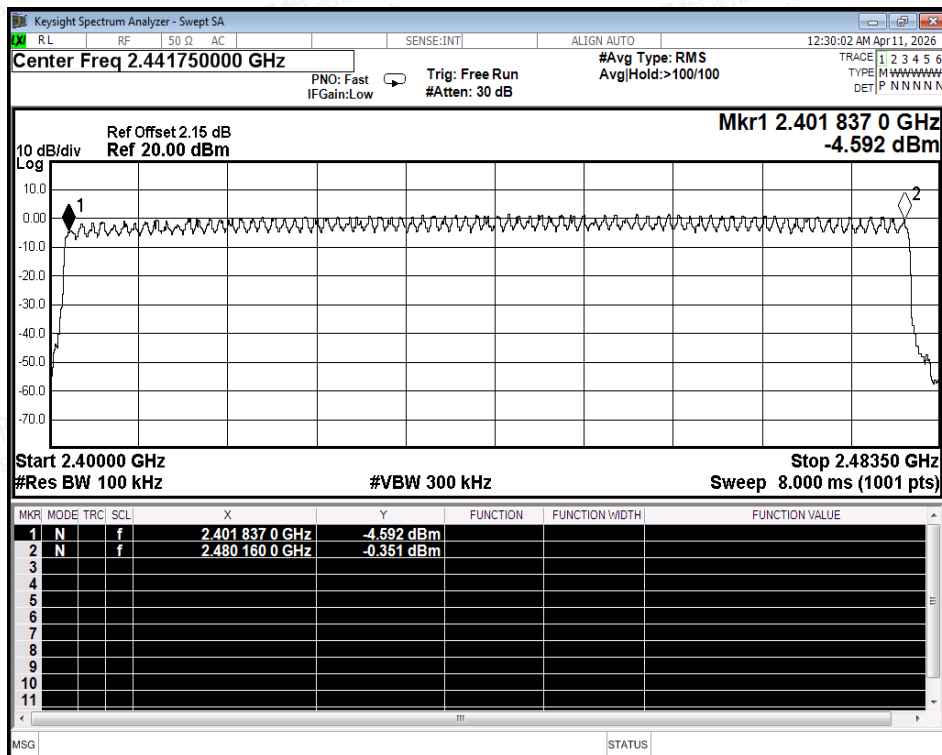
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Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

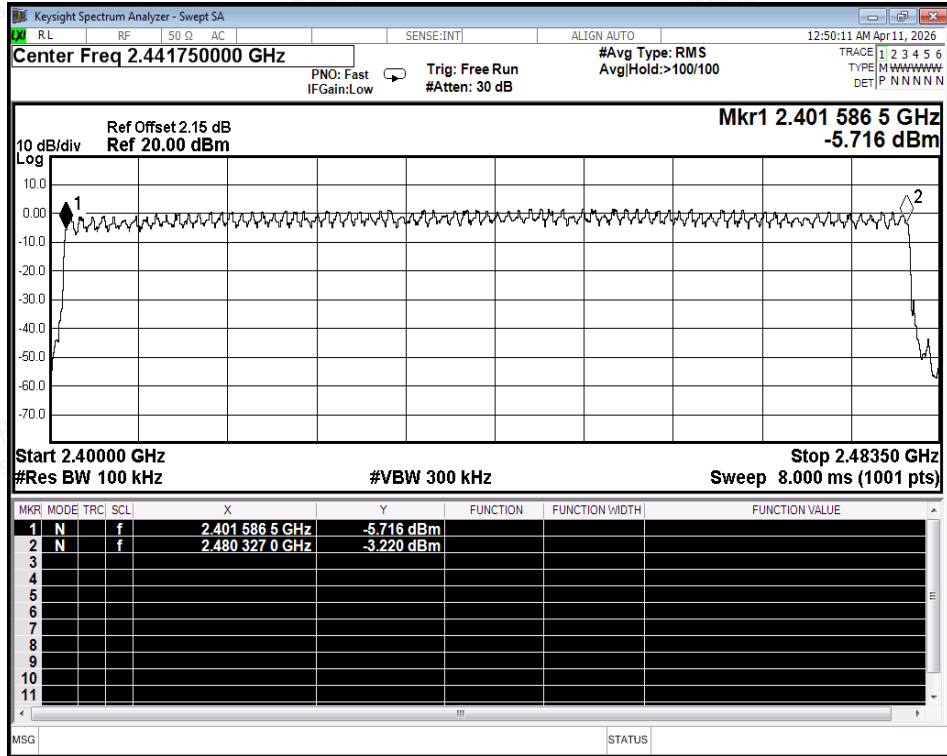


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.48	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.31	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.9	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.08	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.24	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.08	-20	Pass

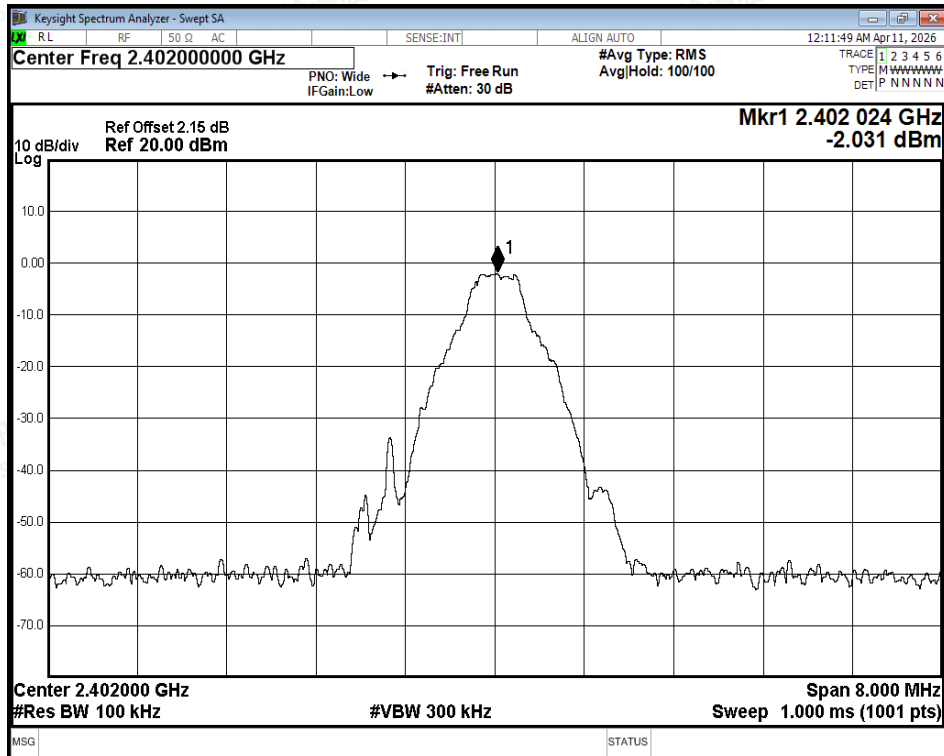


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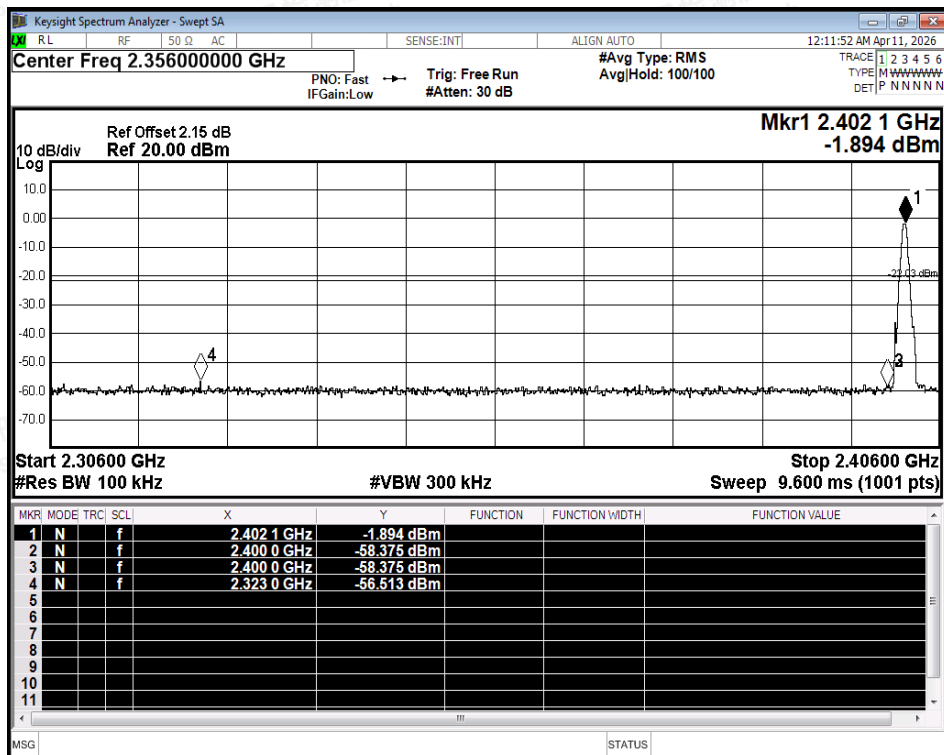
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Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



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

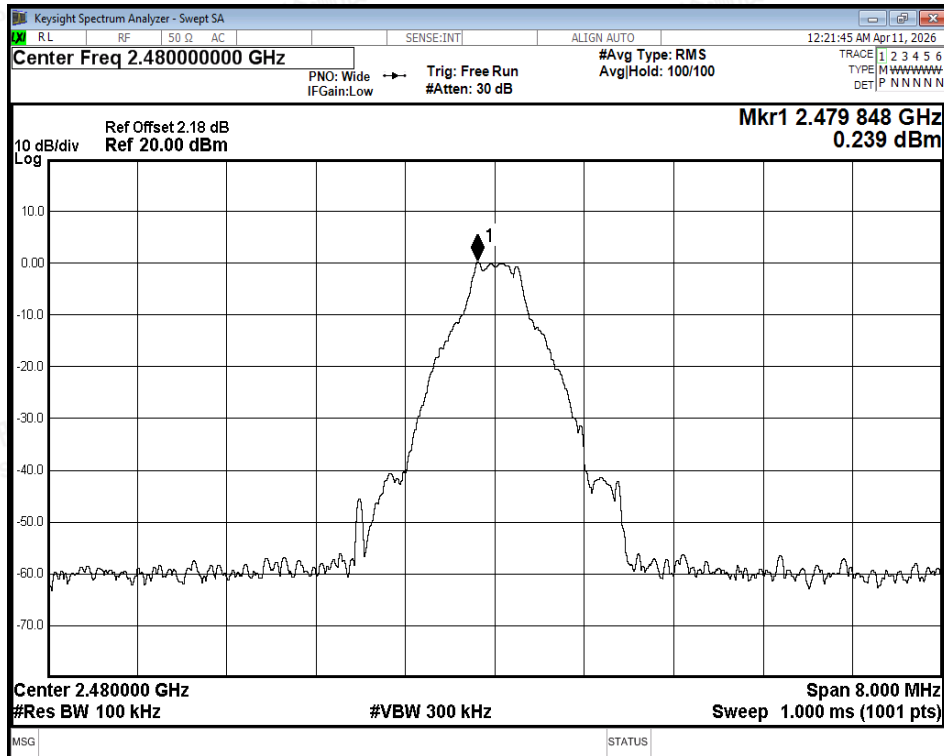


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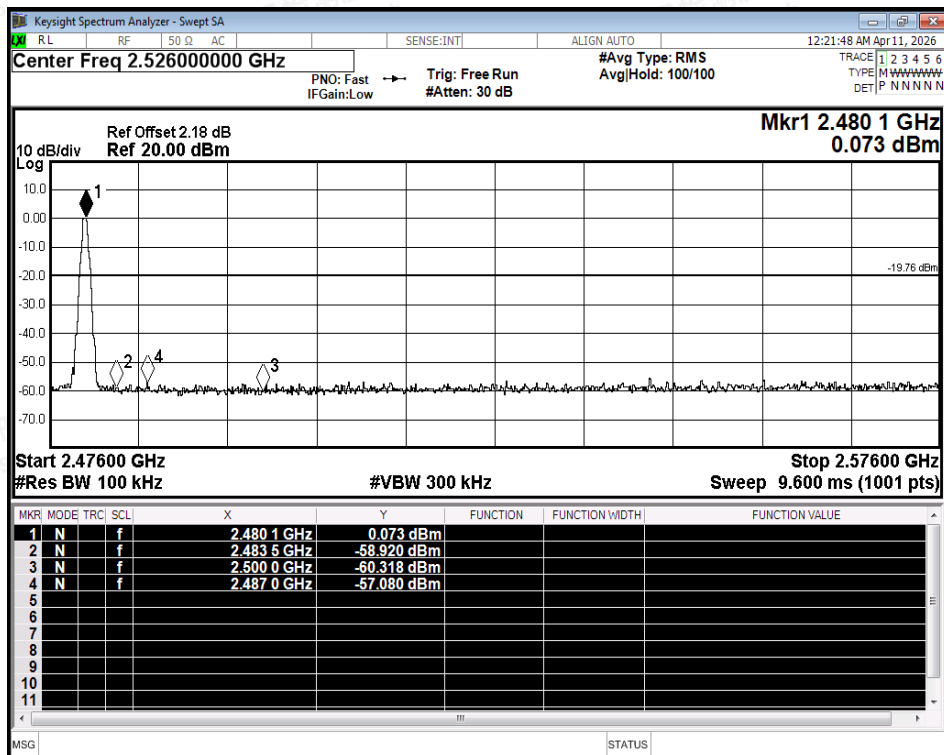
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

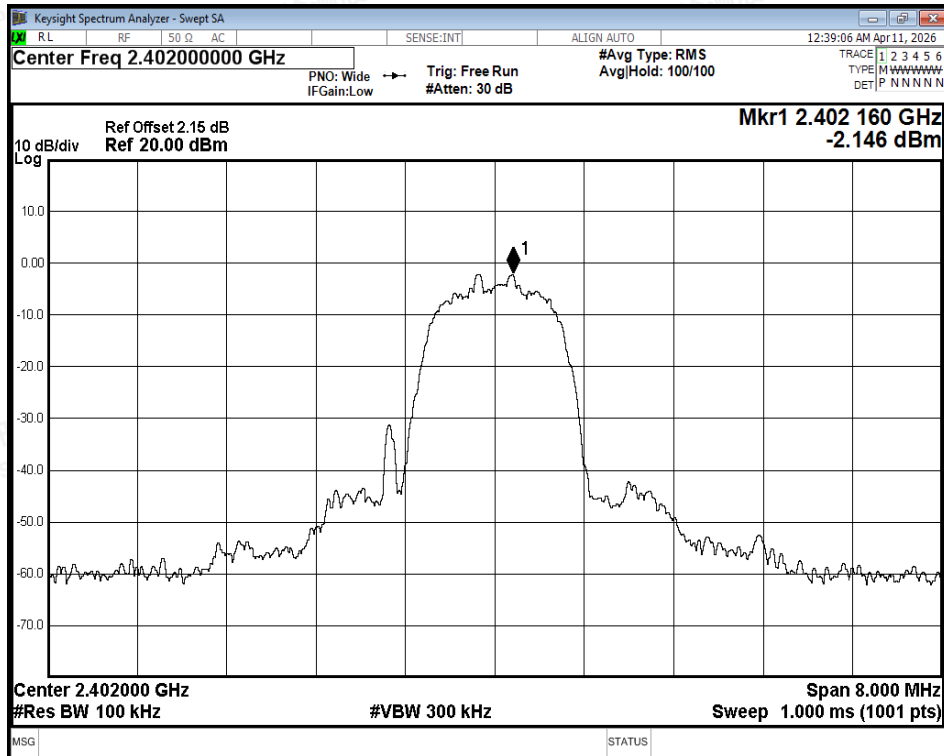


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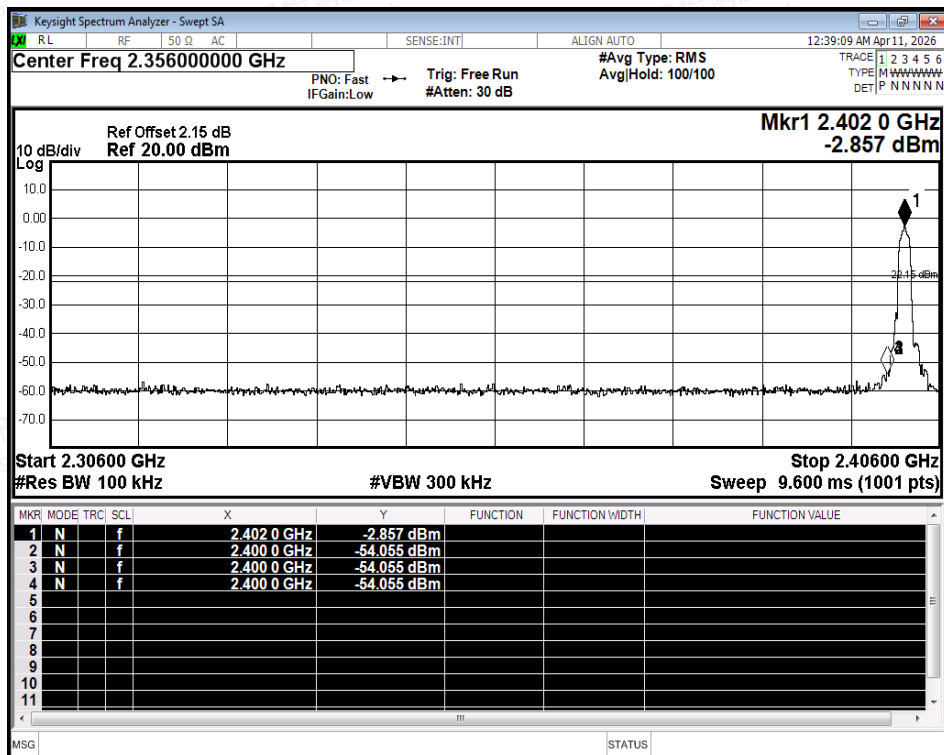
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

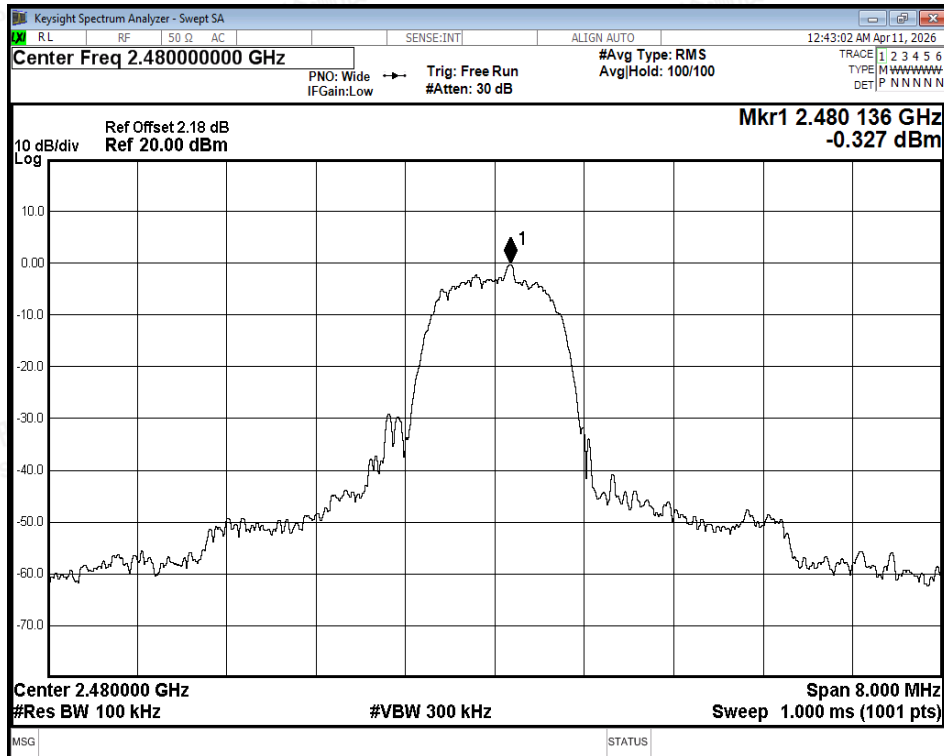


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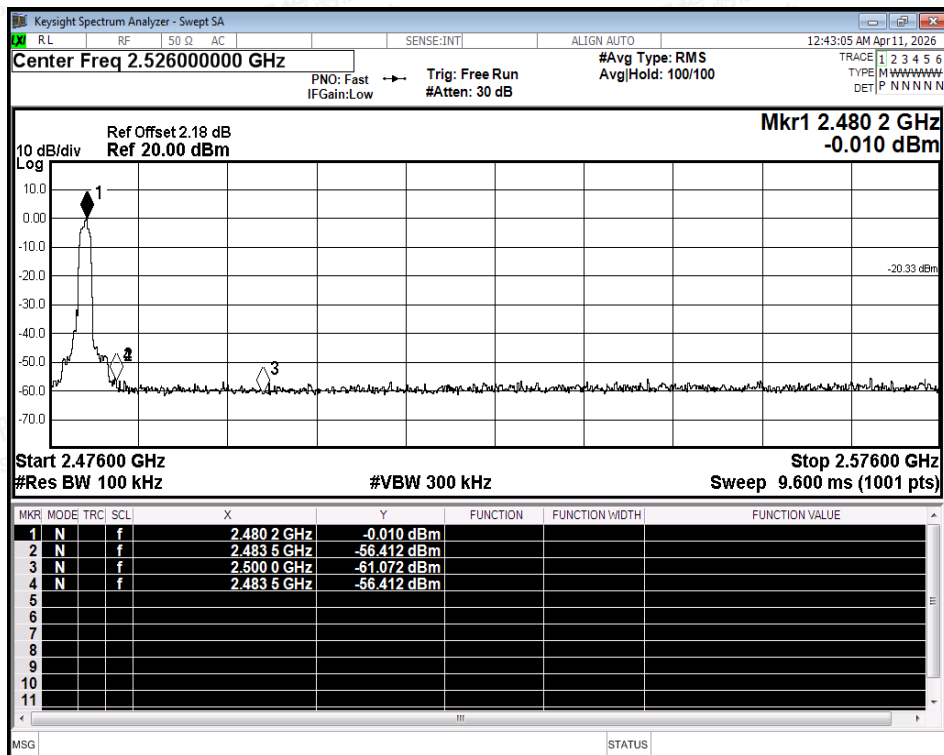
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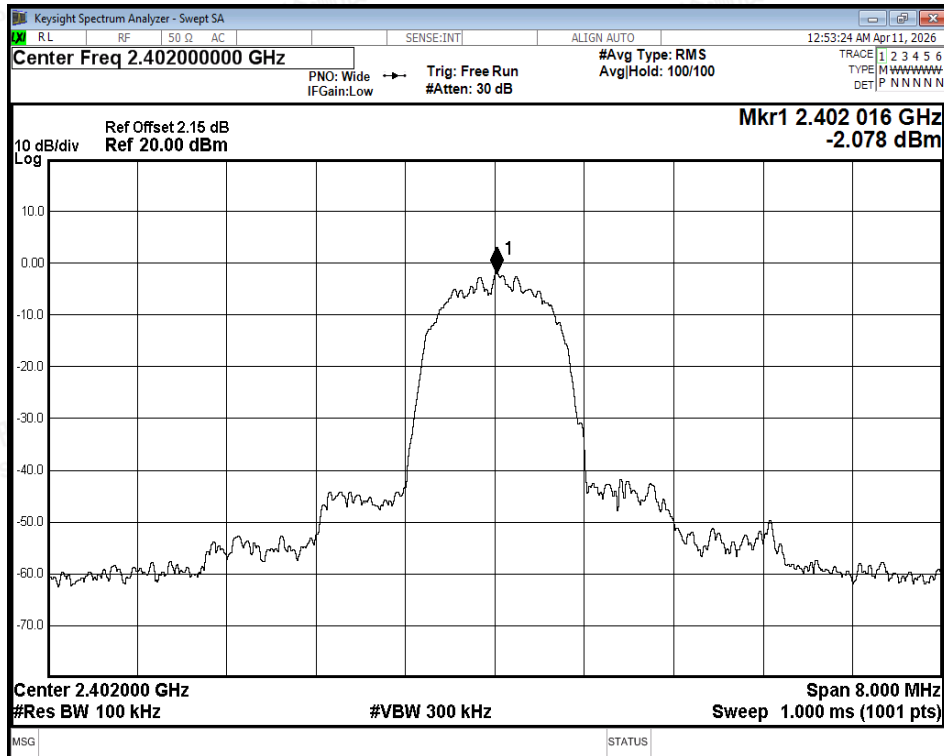


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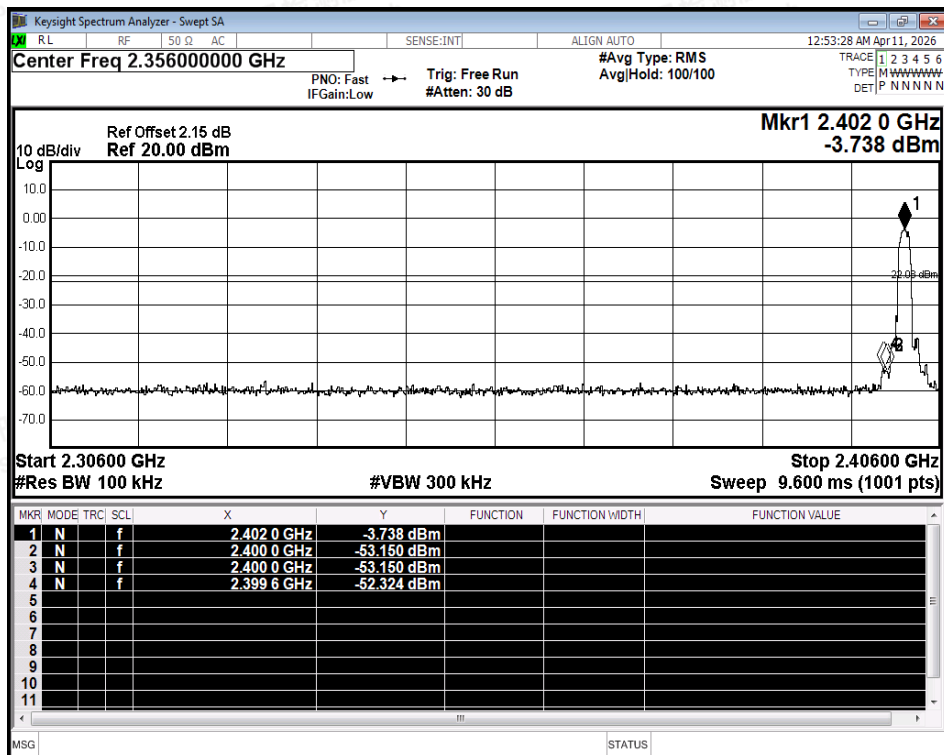
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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

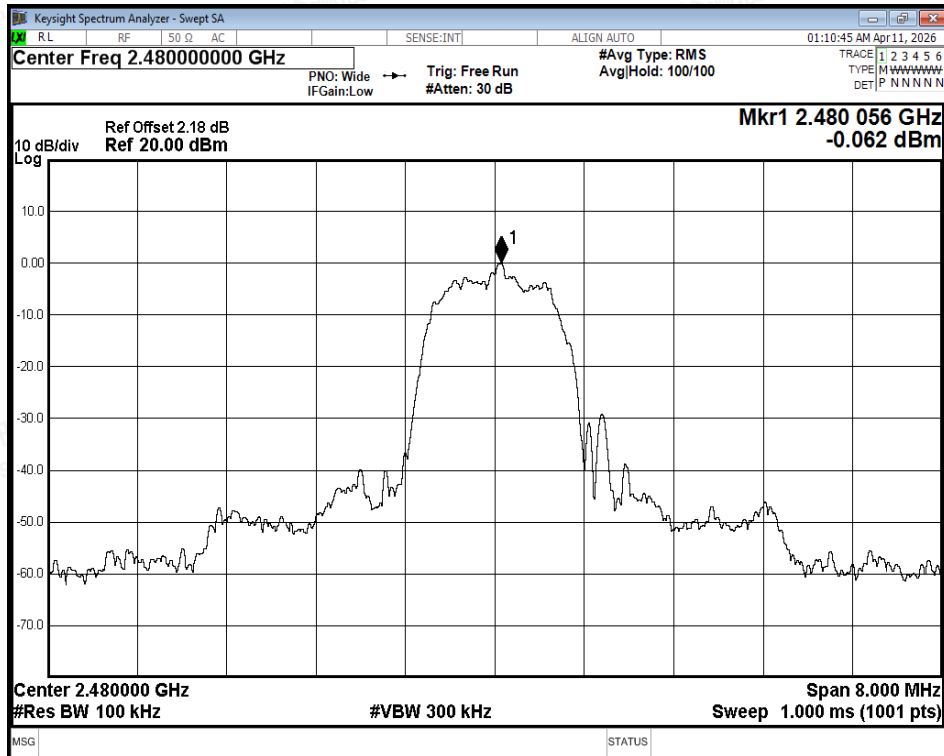


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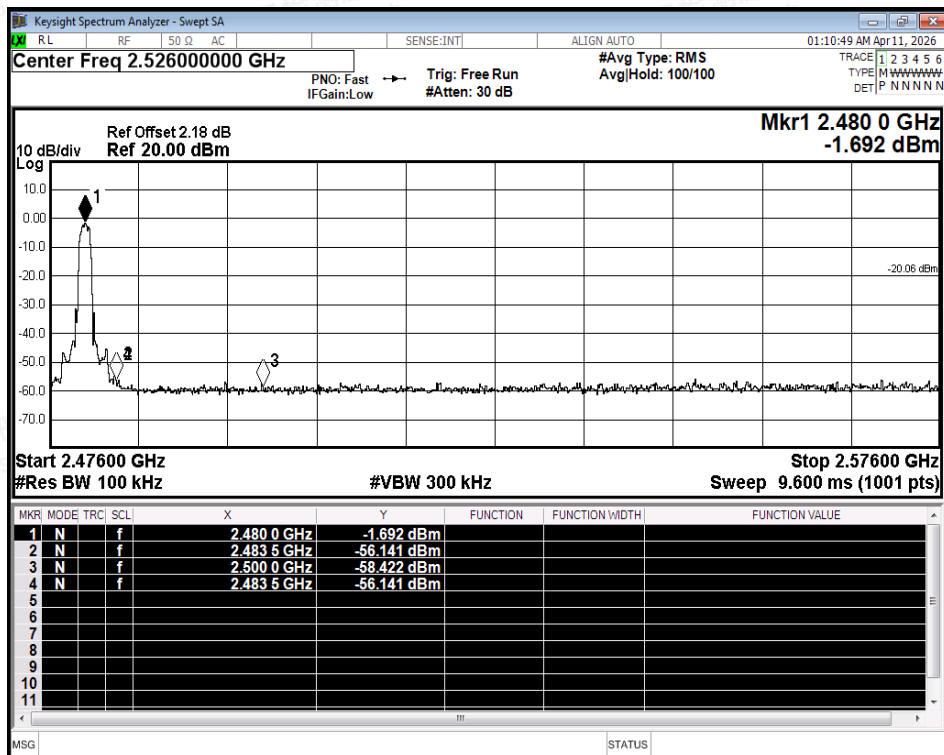
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-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	-54.29	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.7	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.14	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.65	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.57	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.73	-20	Pass

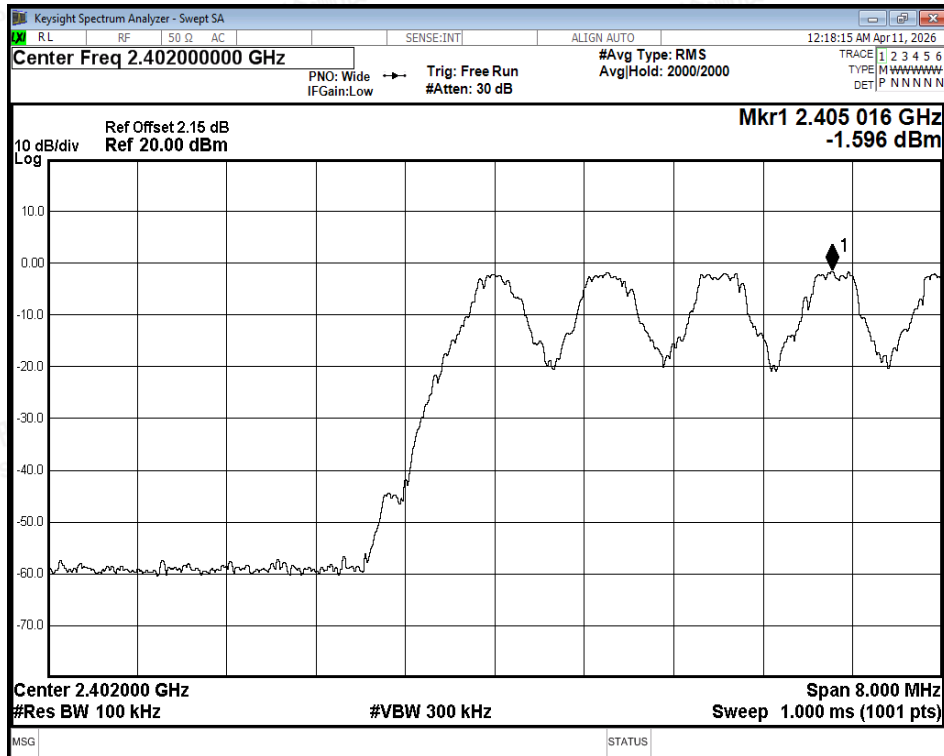


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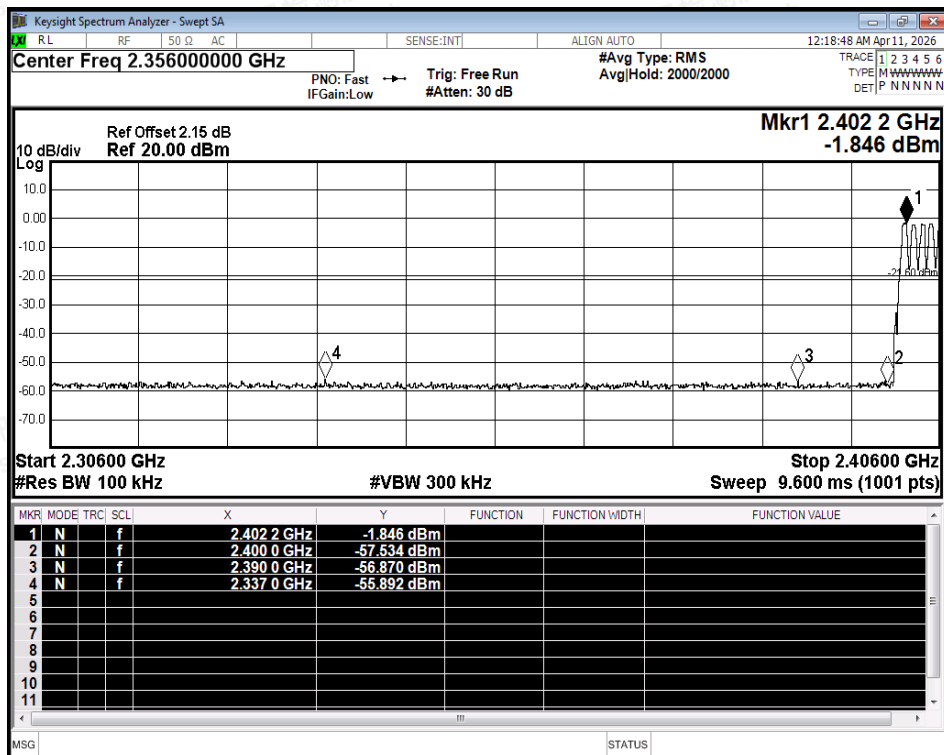
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

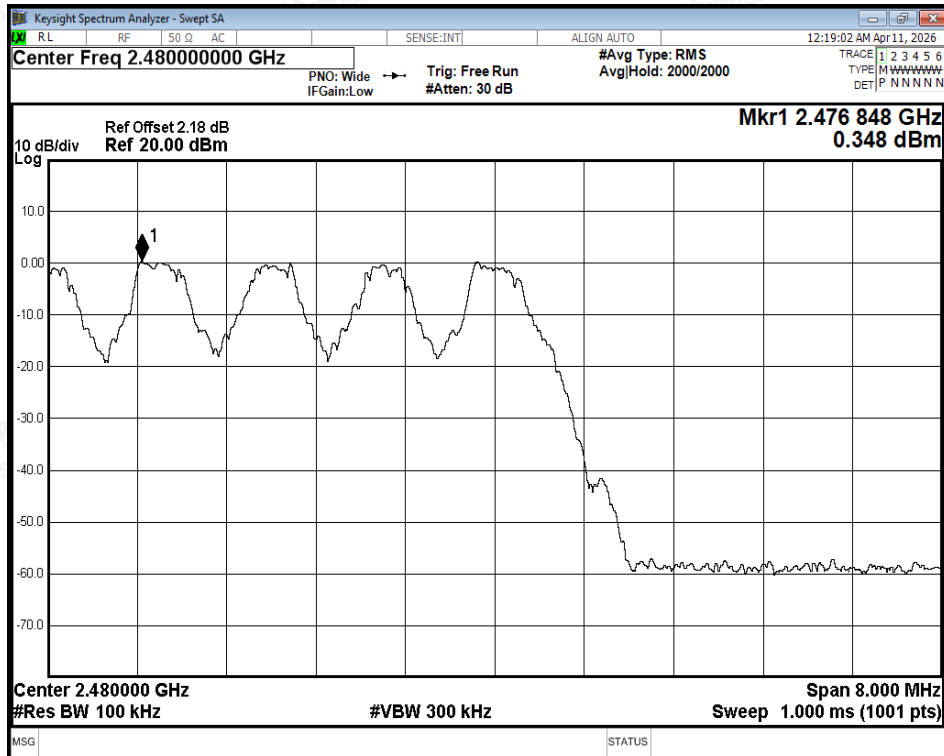


Shenzhen LCS Compliance Testing Laboratory Ltd.

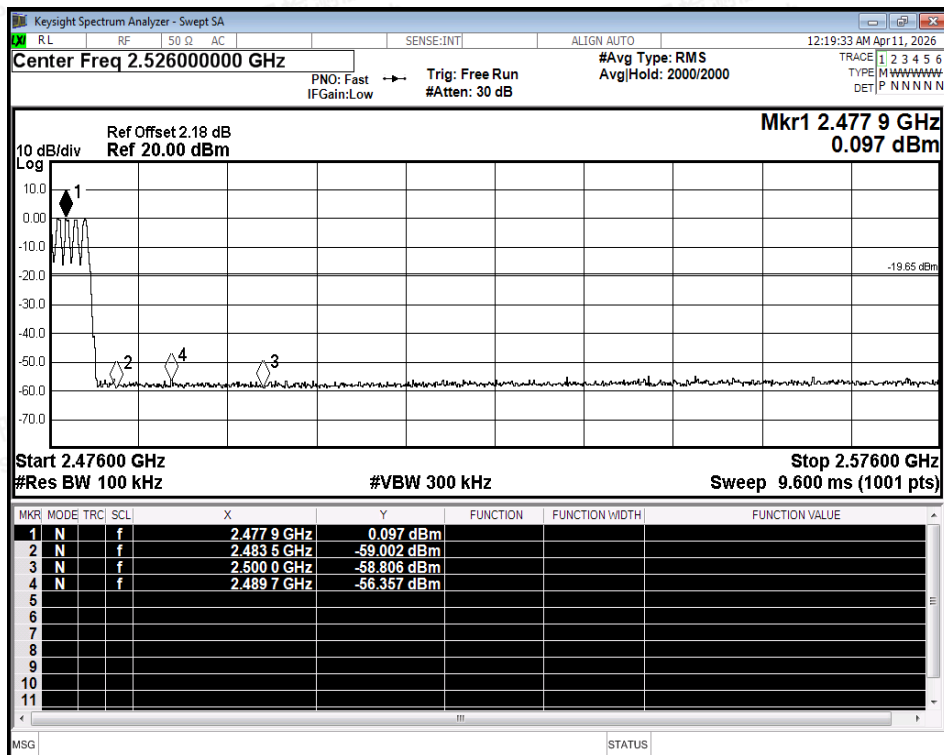
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

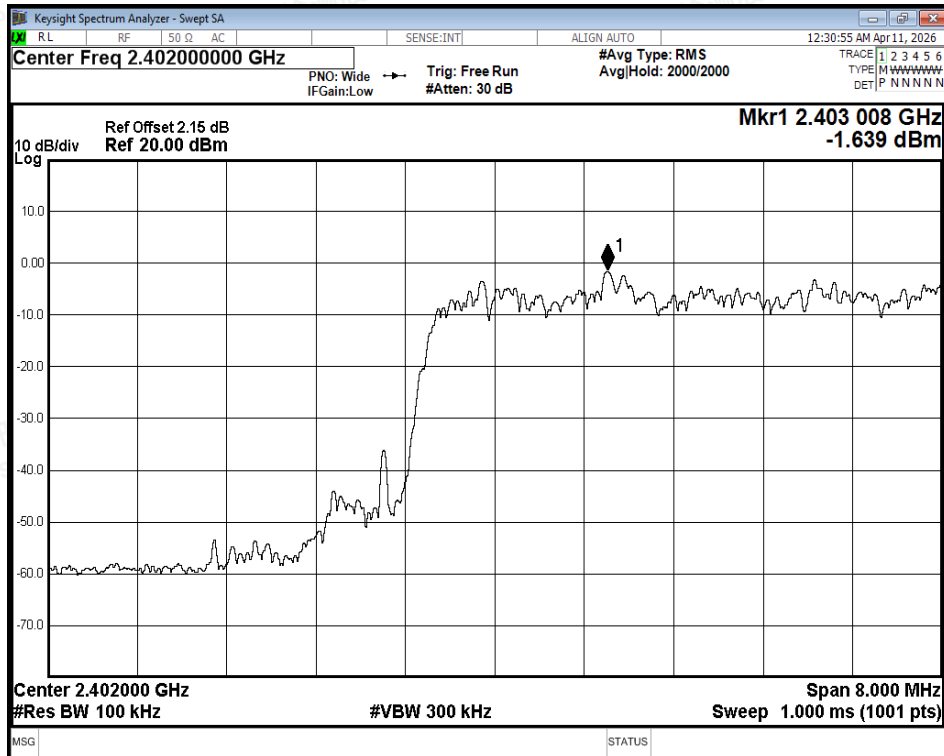


Shenzhen LCS Compliance Testing Laboratory Ltd.

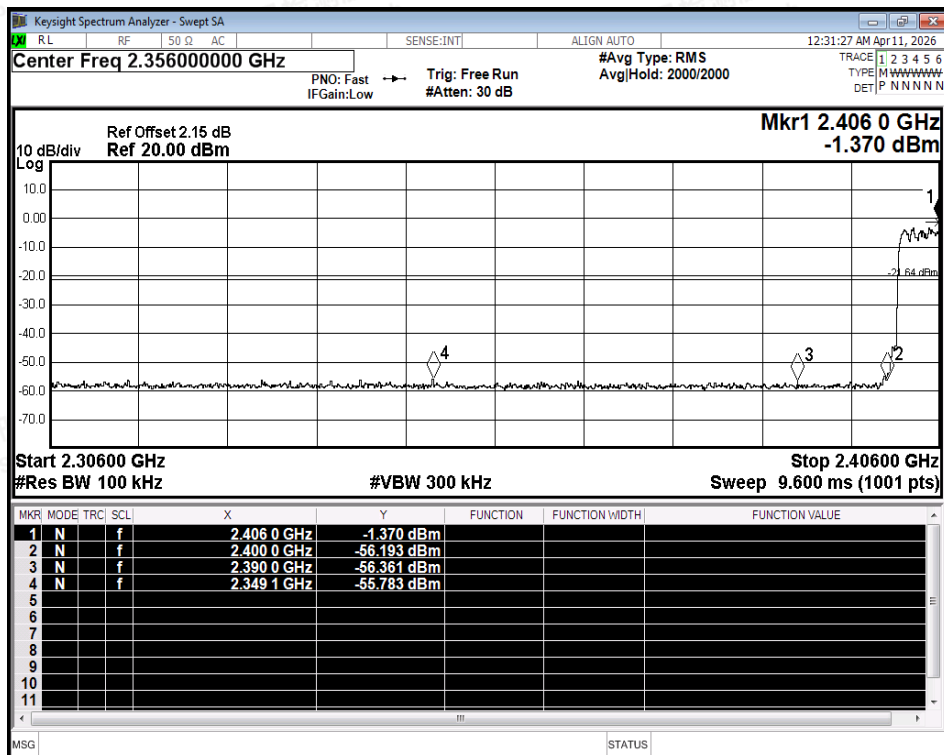
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

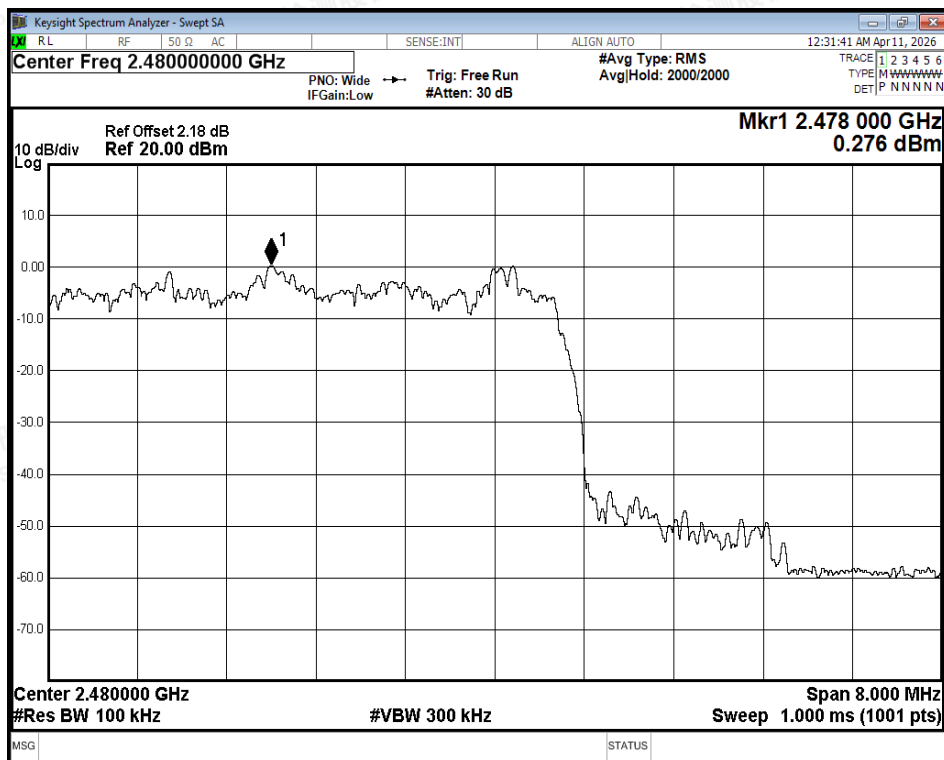


Shenzhen LCS Compliance Testing Laboratory Ltd.

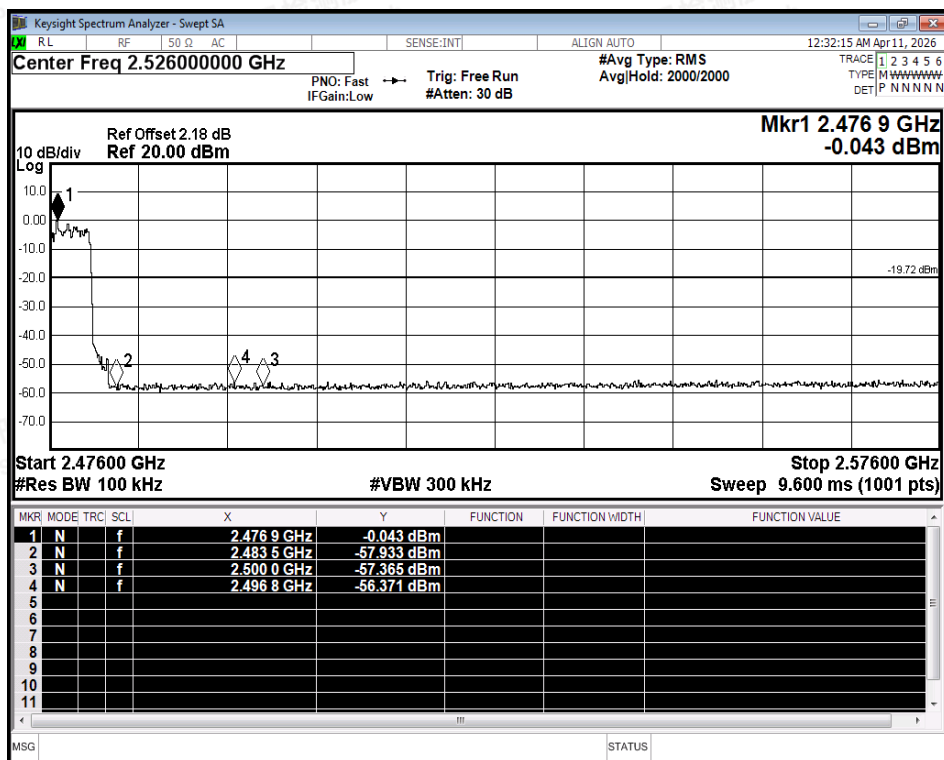
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

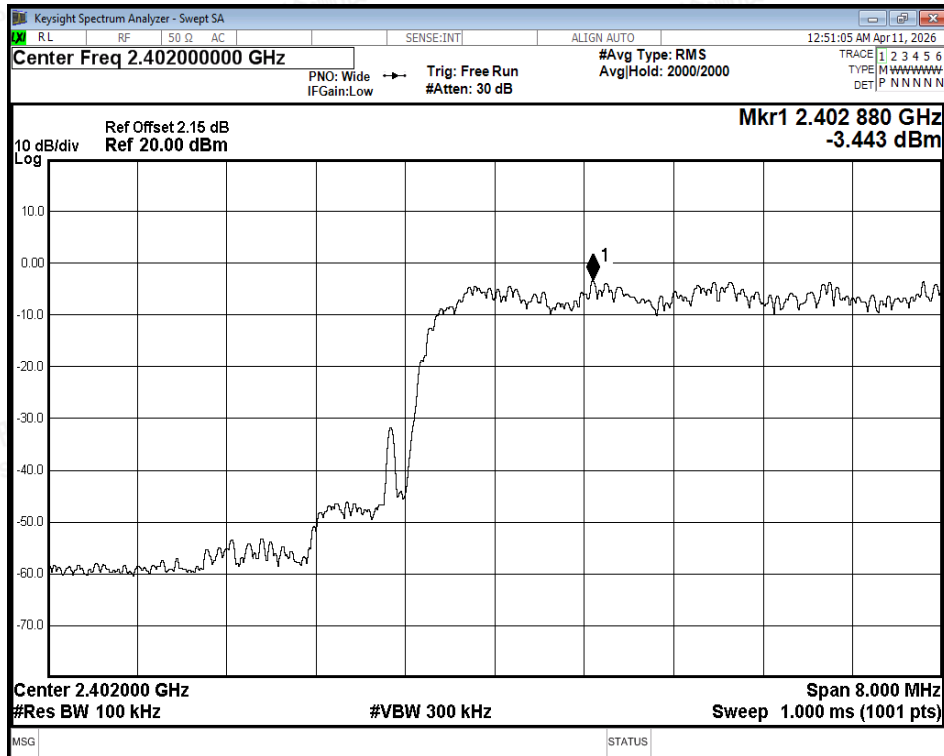


Shenzhen LCS Compliance Testing Laboratory Ltd.

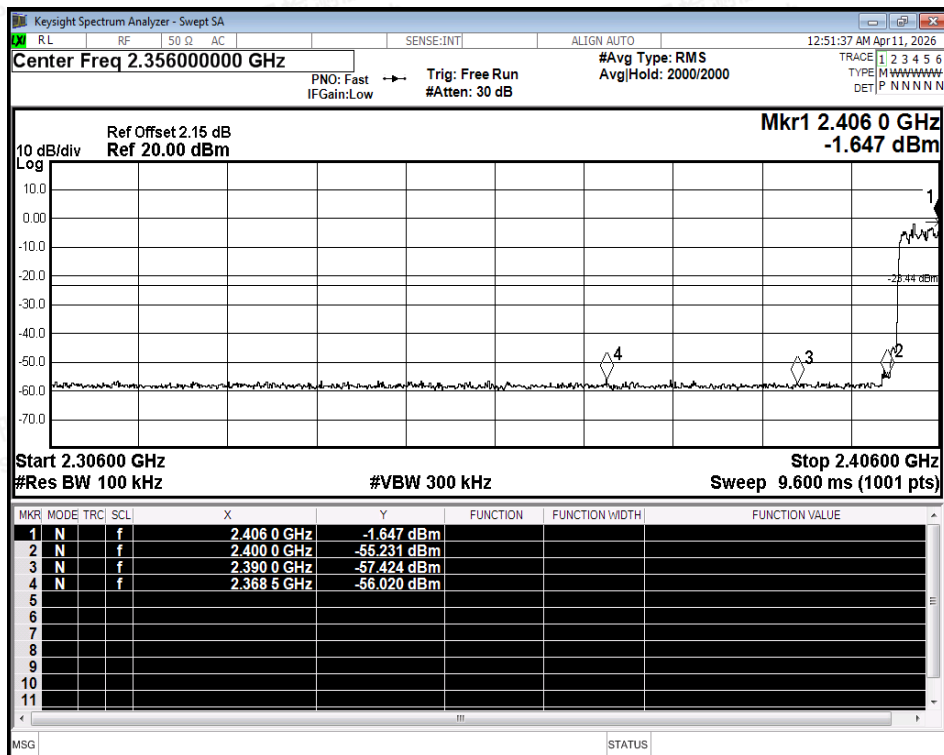
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

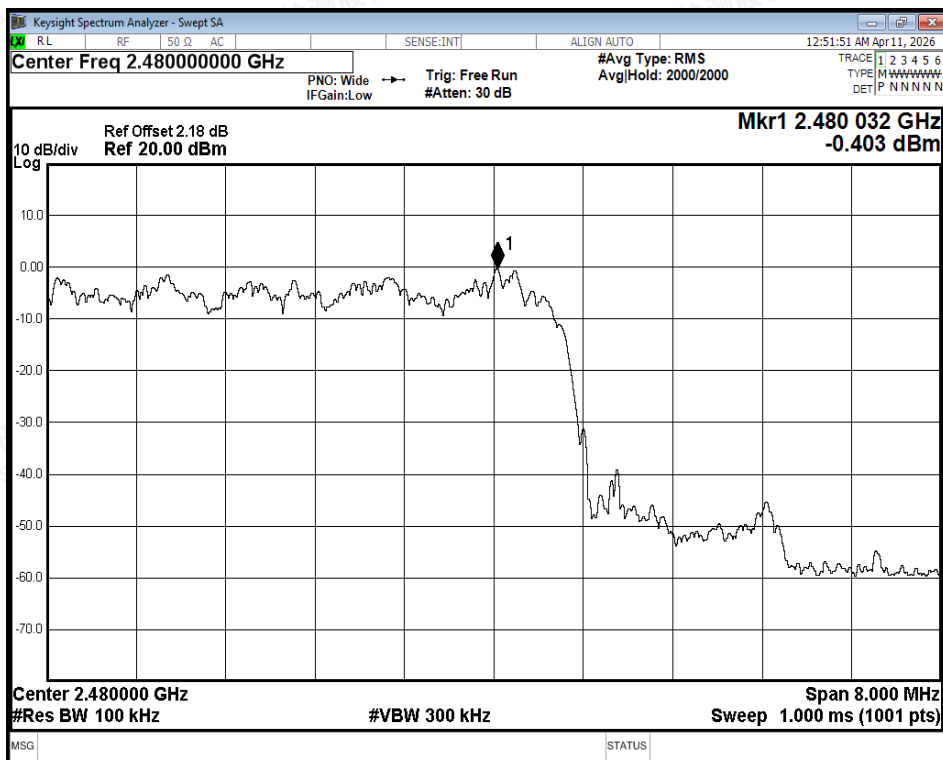


Shenzhen LCS Compliance Testing Laboratory Ltd.

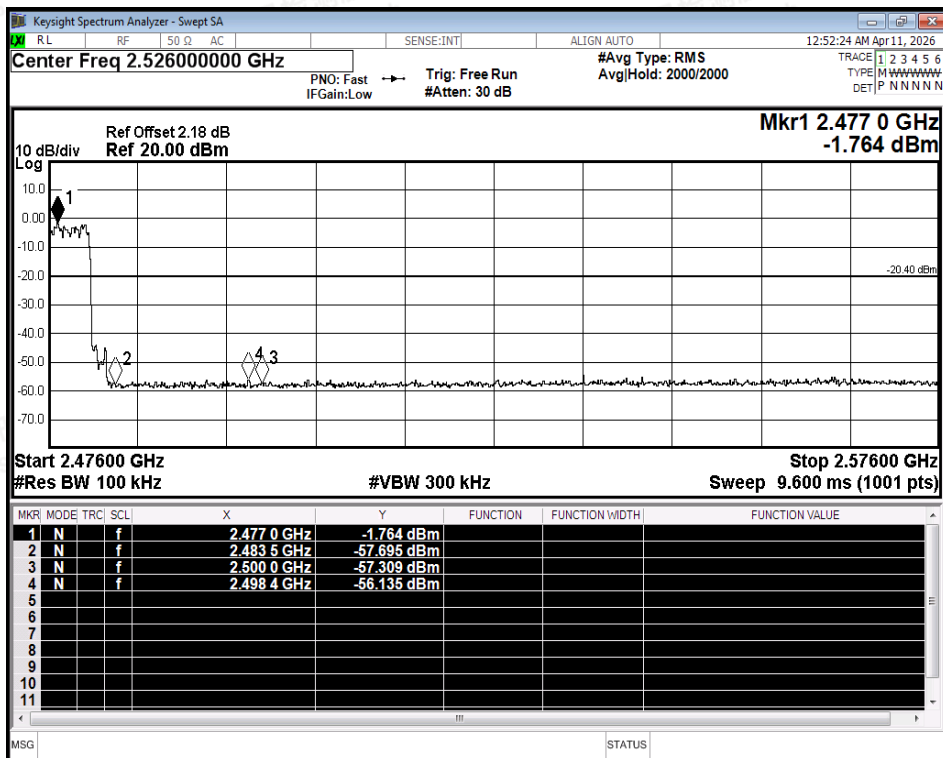
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Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-45.85	-20	Pass
NVNT	1-DH5	2441	Ant1	-48	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.98	-20	Pass
NVNT	2-DH5	2402	Ant1	-44.75	-20	Pass
NVNT	2-DH5	2441	Ant1	-47.28	-20	Pass
NVNT	2-DH5	2480	Ant1	-46.34	-20	Pass
NVNT	3-DH5	2402	Ant1	-44.67	-20	Pass
NVNT	3-DH5	2441	Ant1	-47.64	-20	Pass
NVNT	3-DH5	2480	Ant1	-46.89	-20	Pass

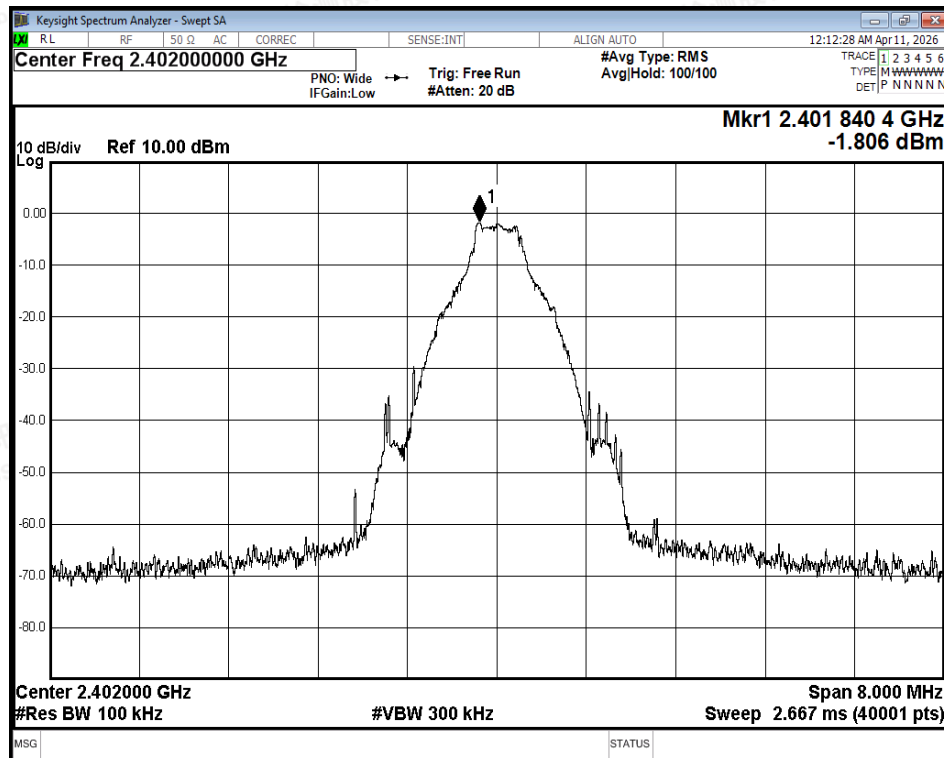


Shenzhen LCS Compliance Testing Laboratory Ltd.

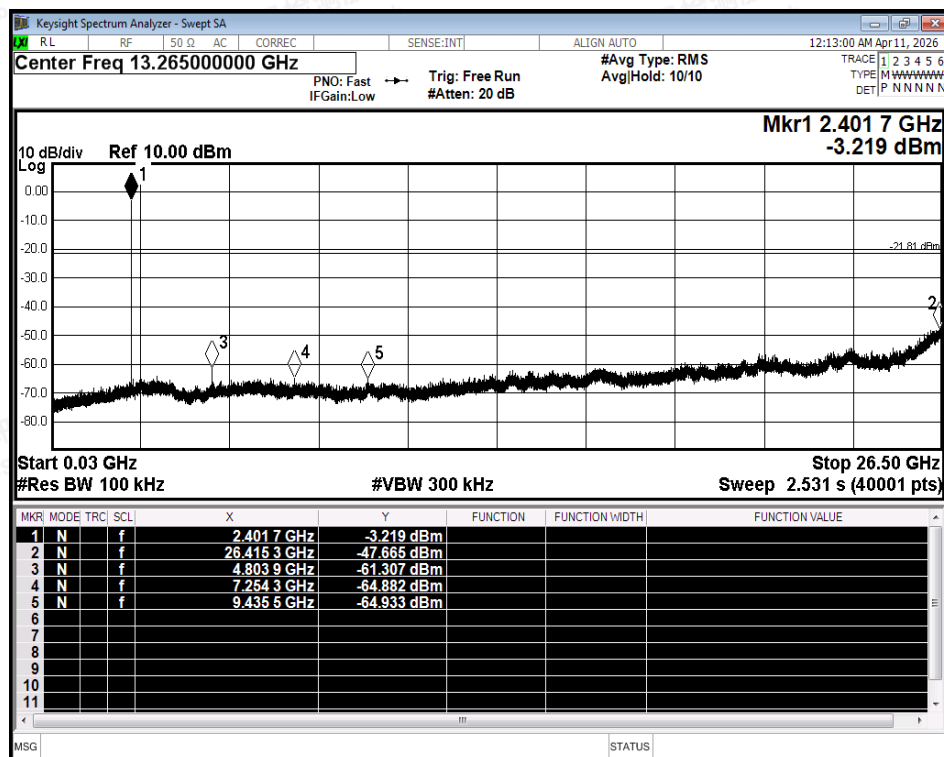
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

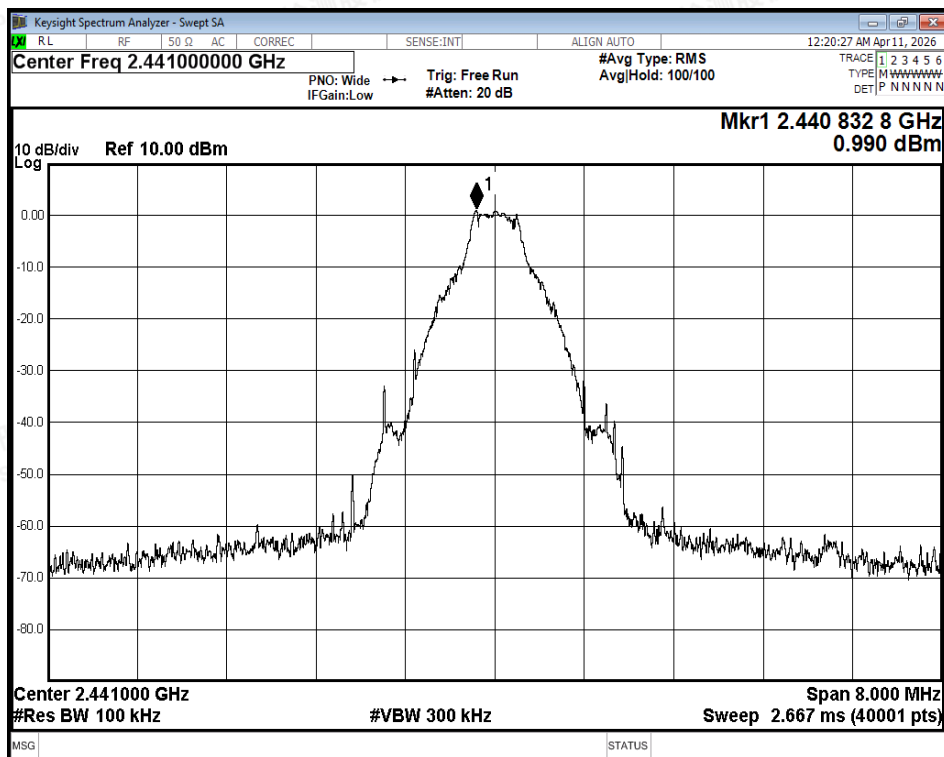


Shenzhen LCS Compliance Testing Laboratory Ltd.

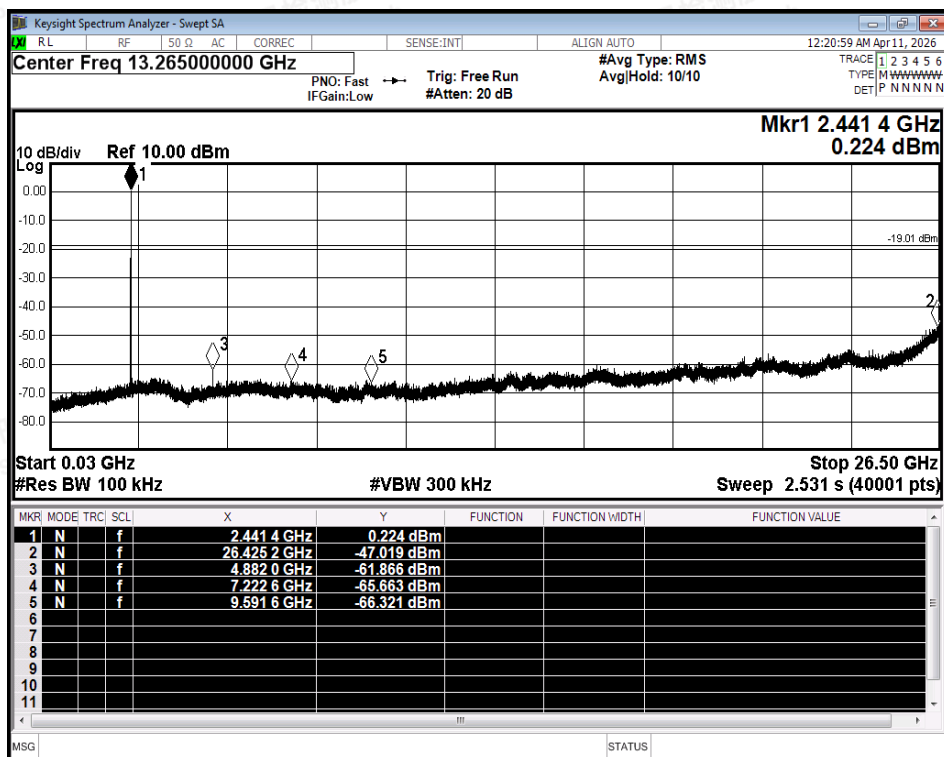
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

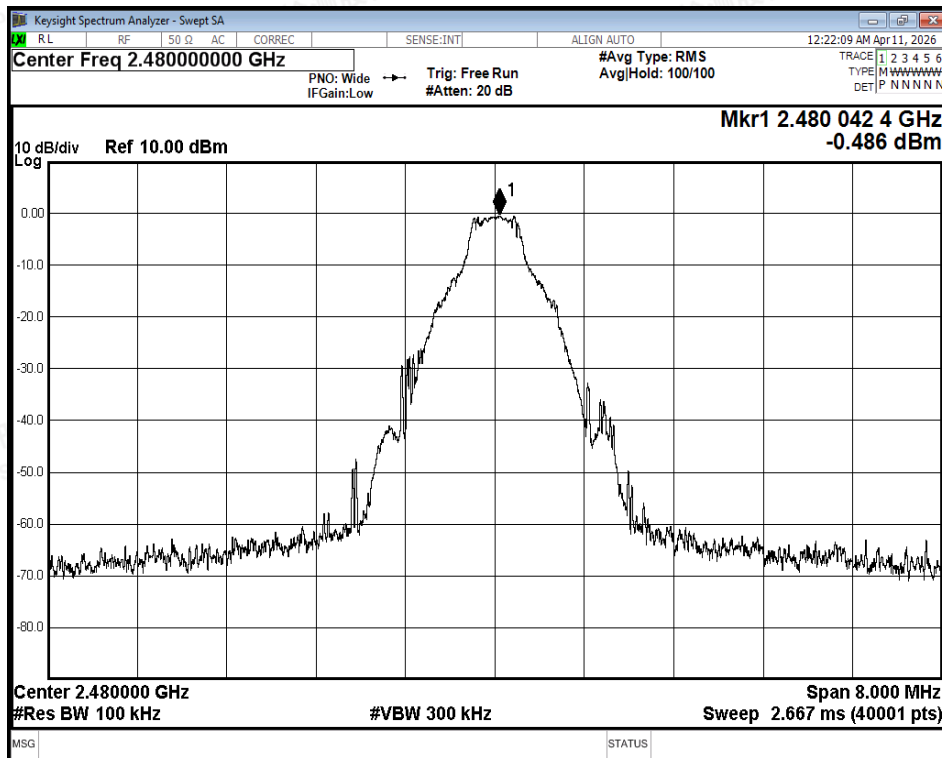


Shenzhen LCS Compliance Testing Laboratory Ltd.

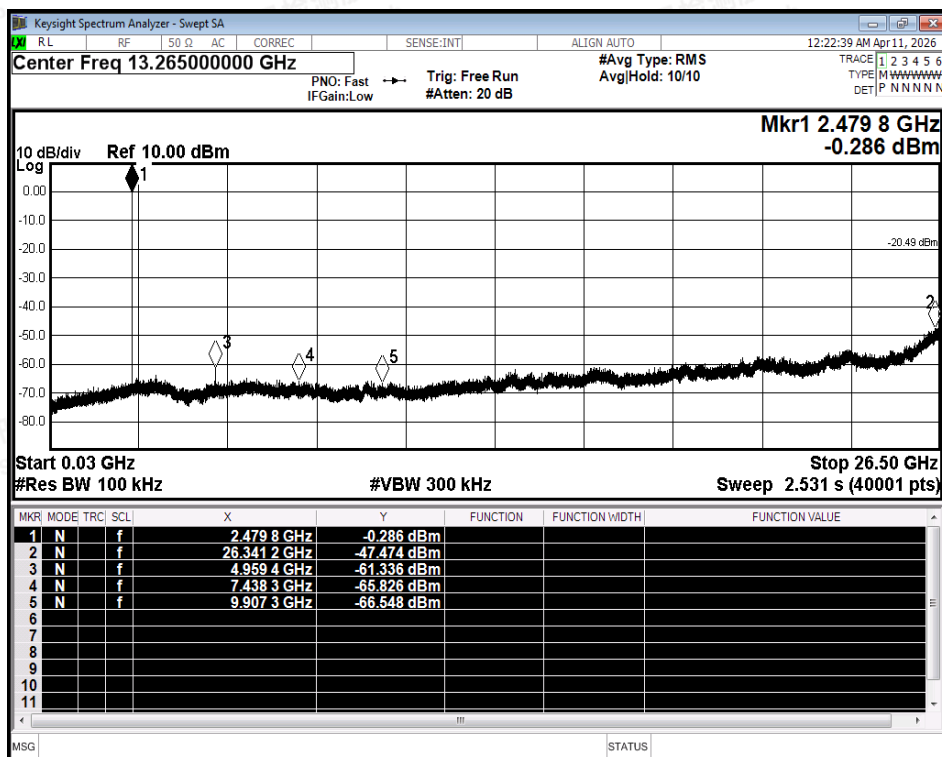
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

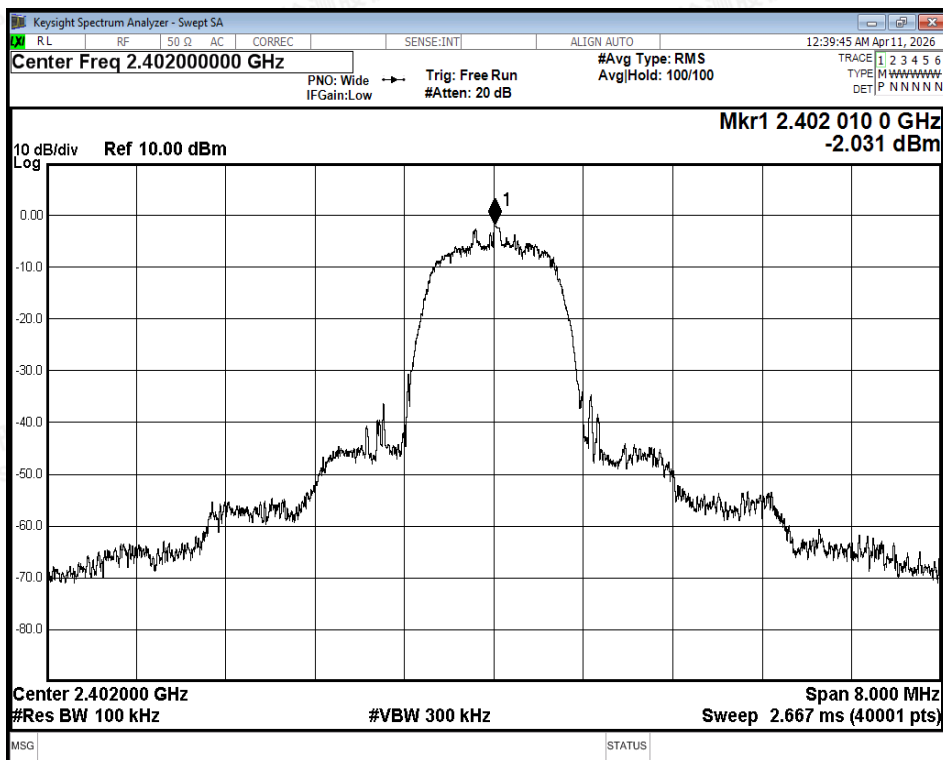


Shenzhen LCS Compliance Testing Laboratory Ltd.

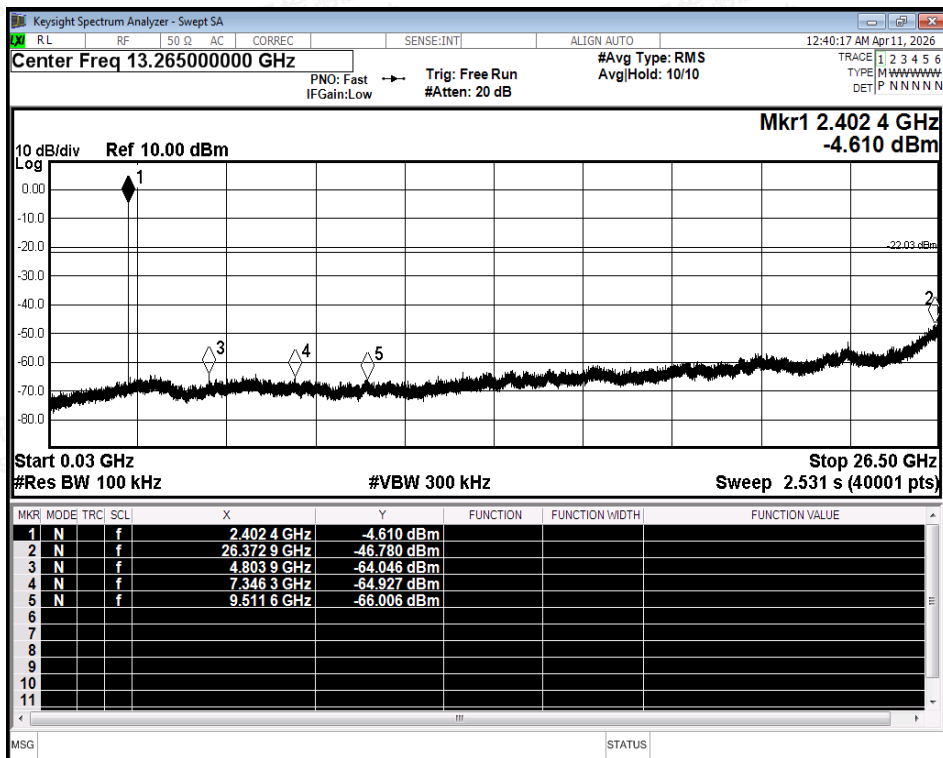
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

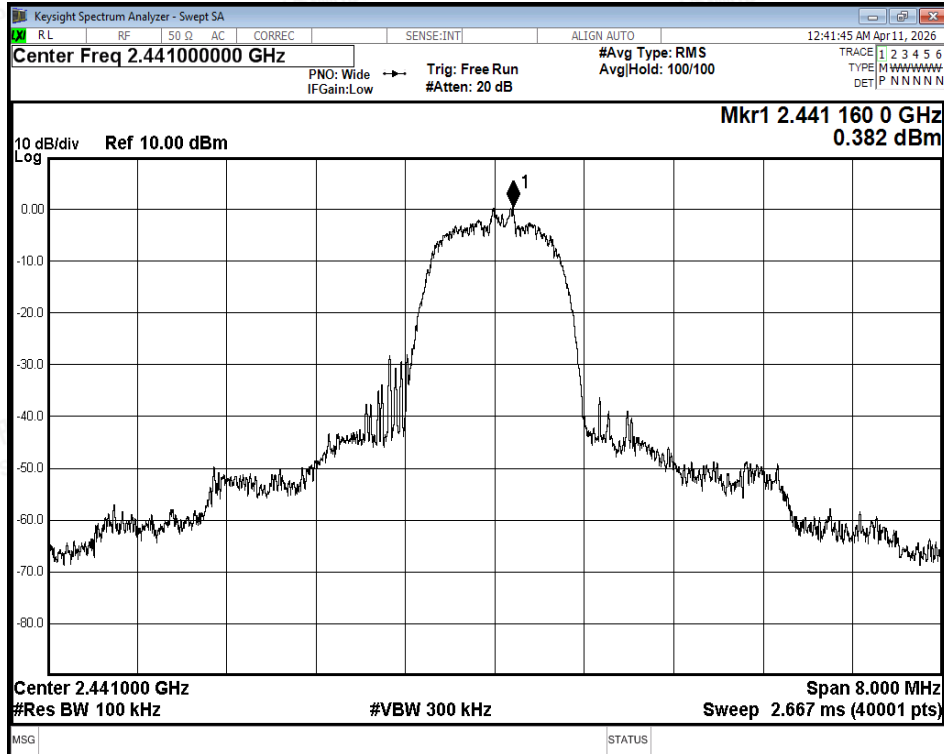


Shenzhen LCS Compliance Testing Laboratory Ltd.

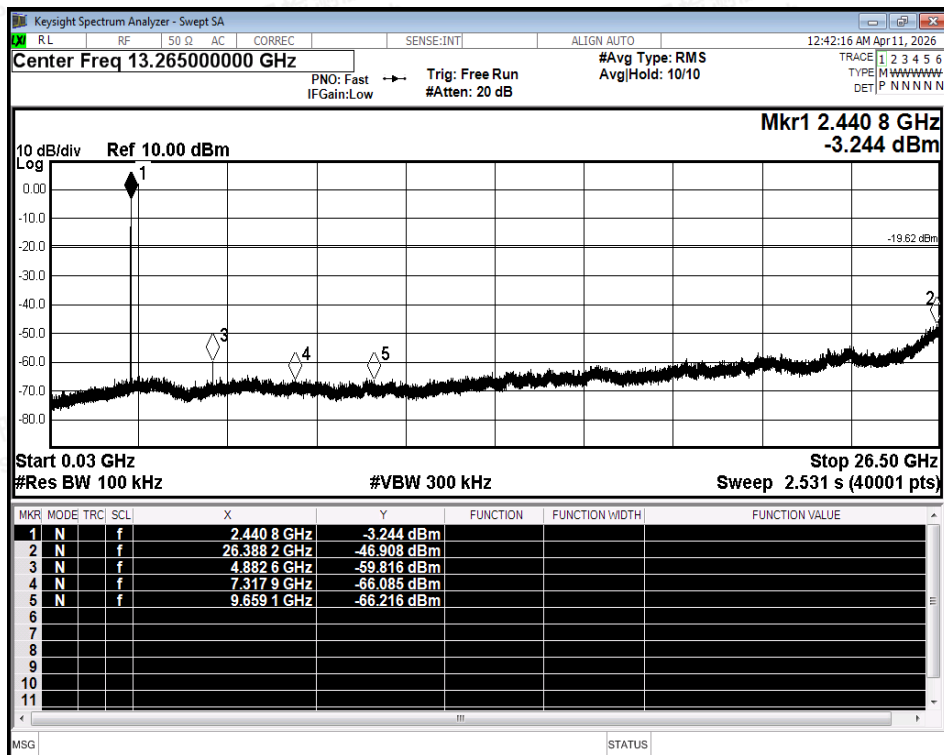
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

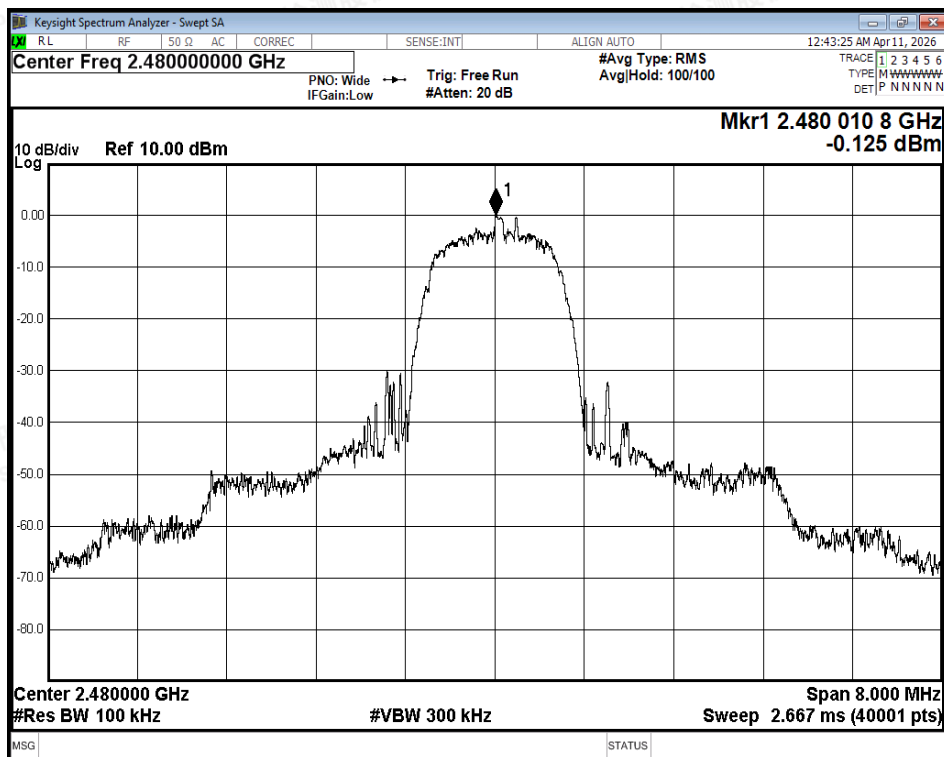


Shenzhen LCS Compliance Testing Laboratory Ltd.

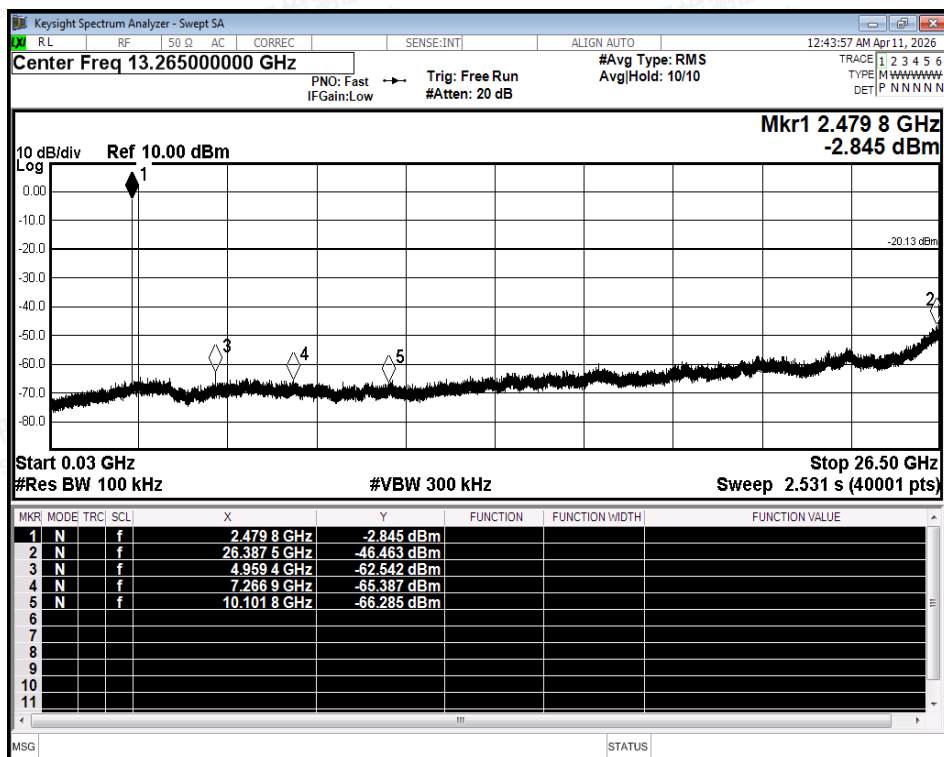
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

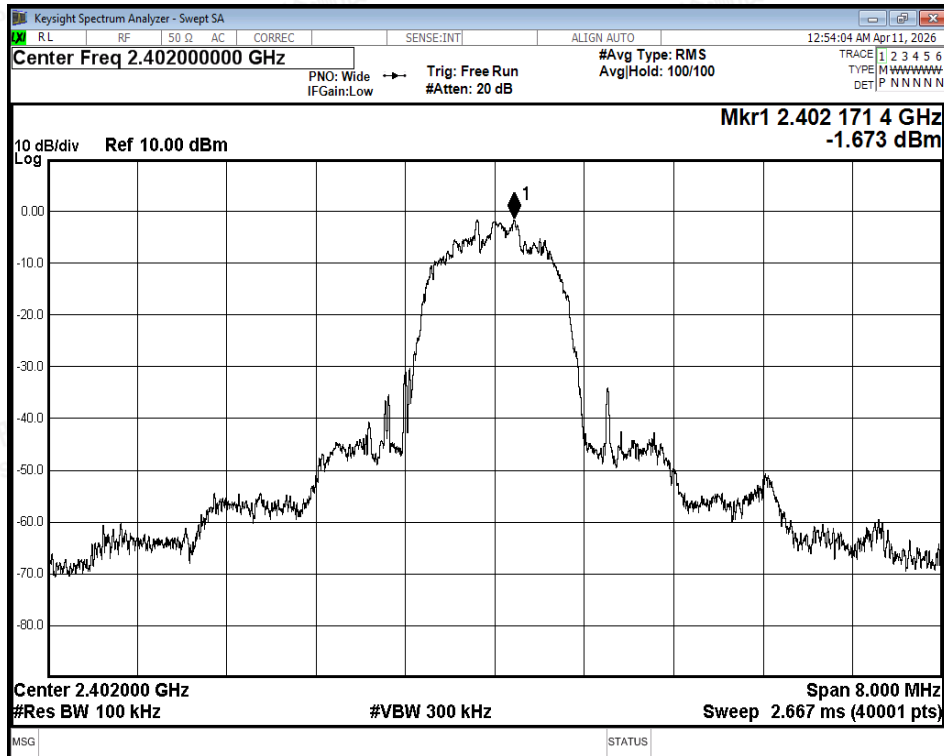


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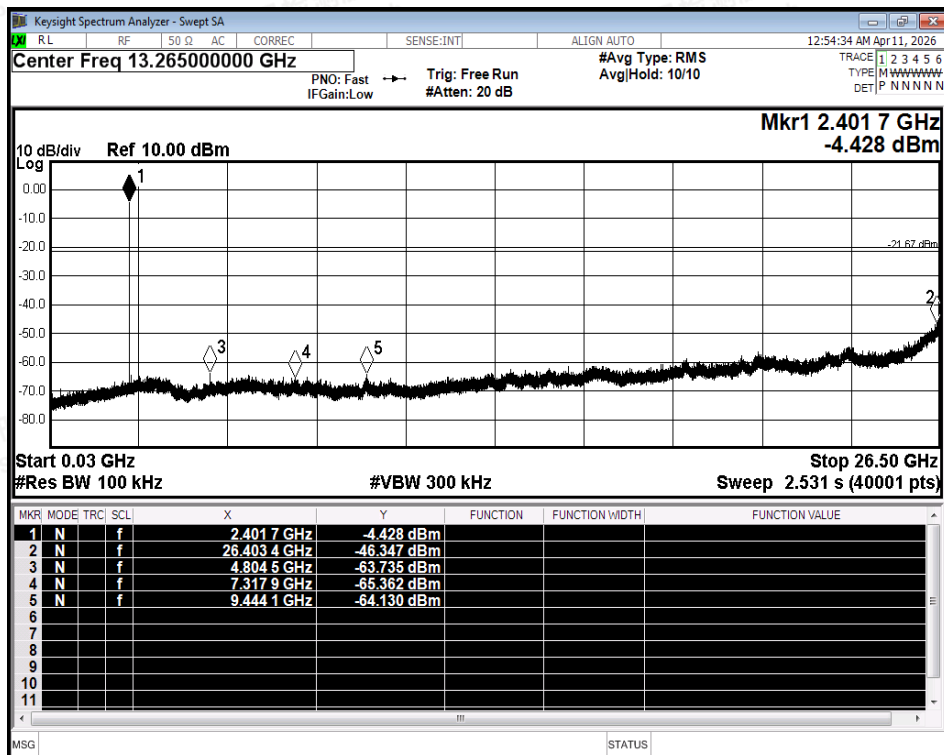
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

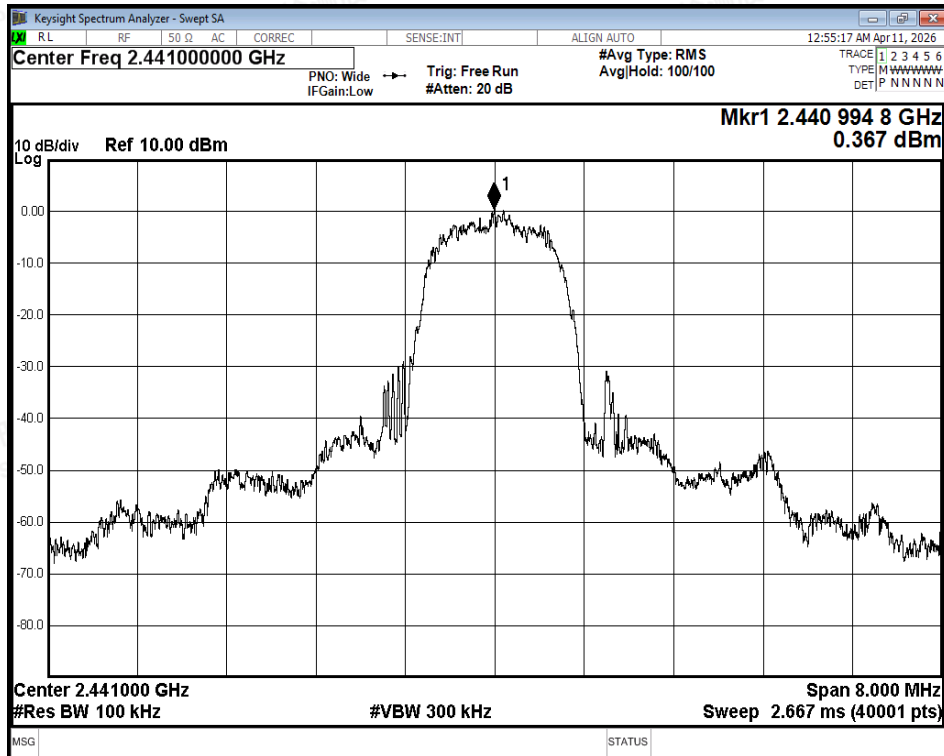


Shenzhen LCS Compliance Testing Laboratory Ltd.

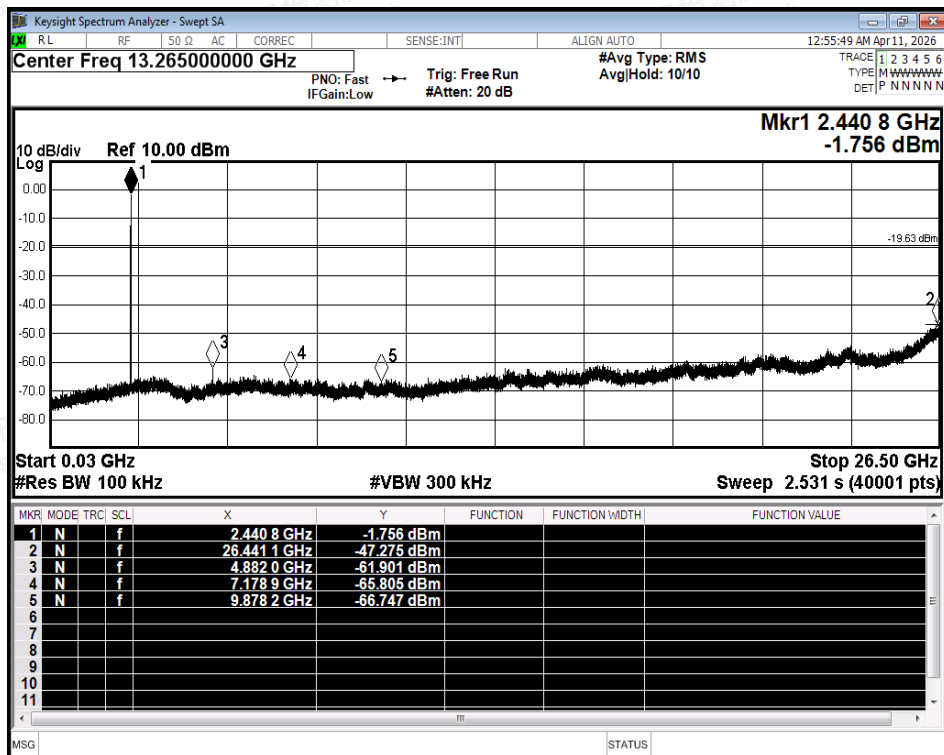
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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

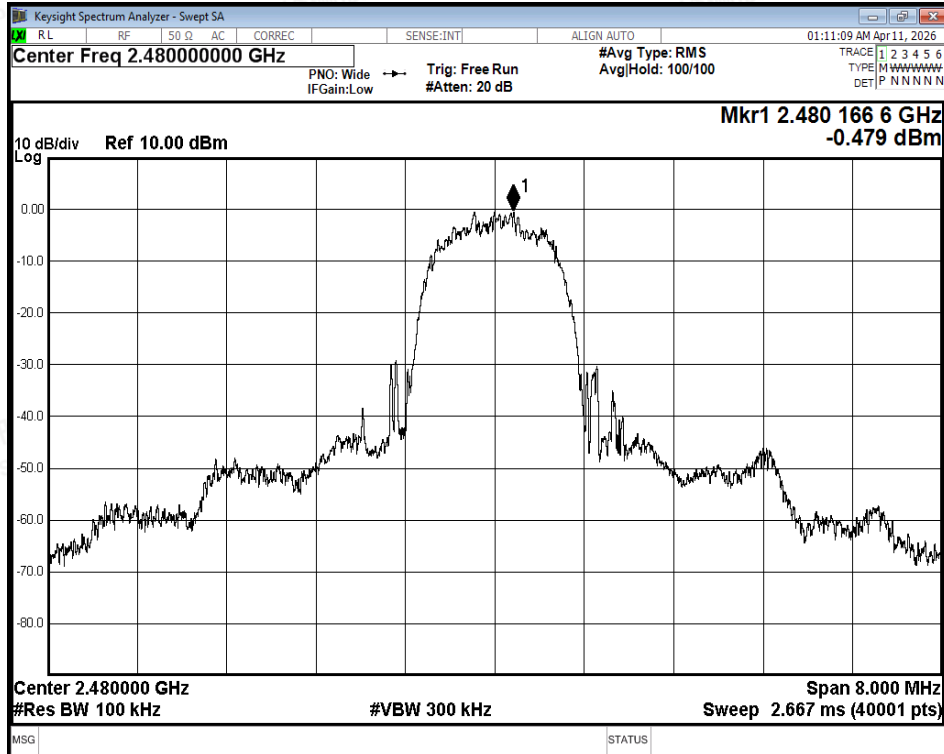


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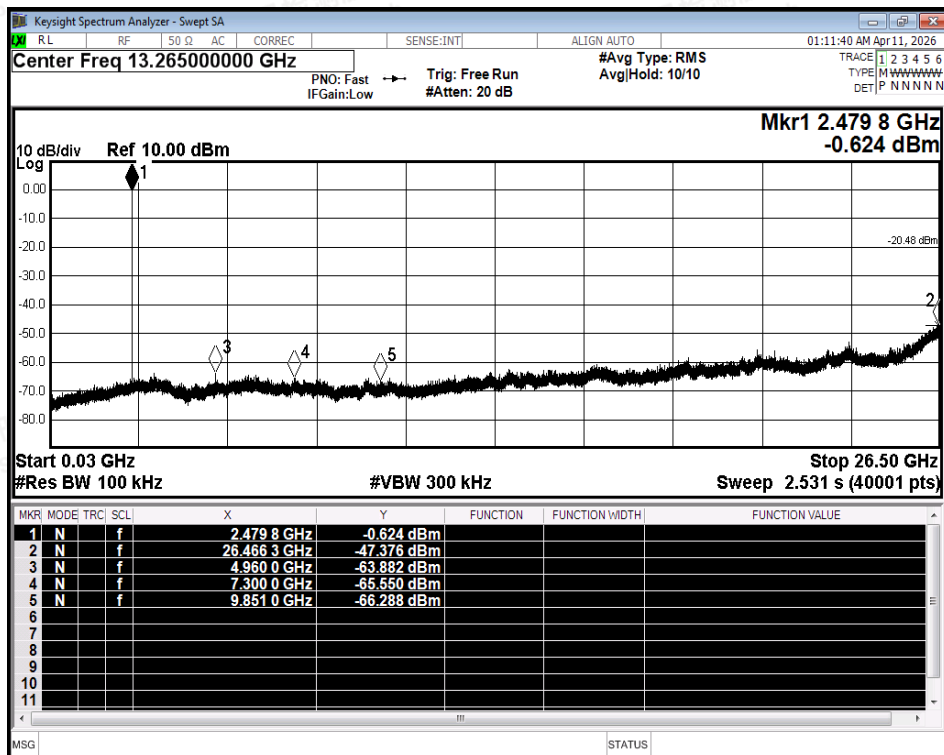
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



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A.8 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

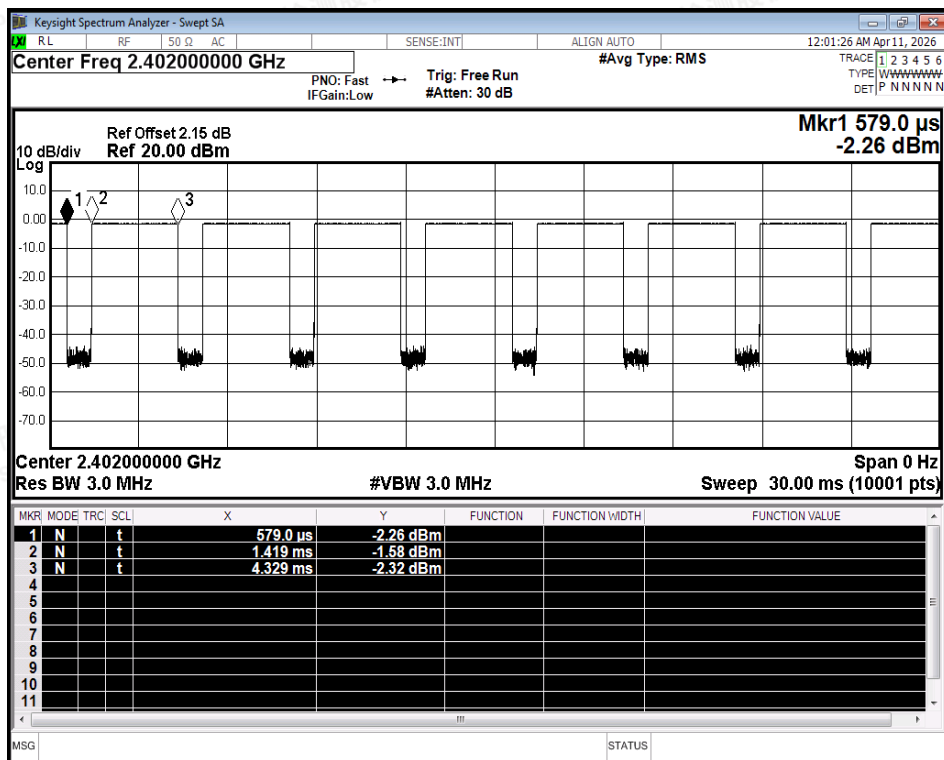


Shenzhen LCS Compliance Testing Laboratory Ltd.

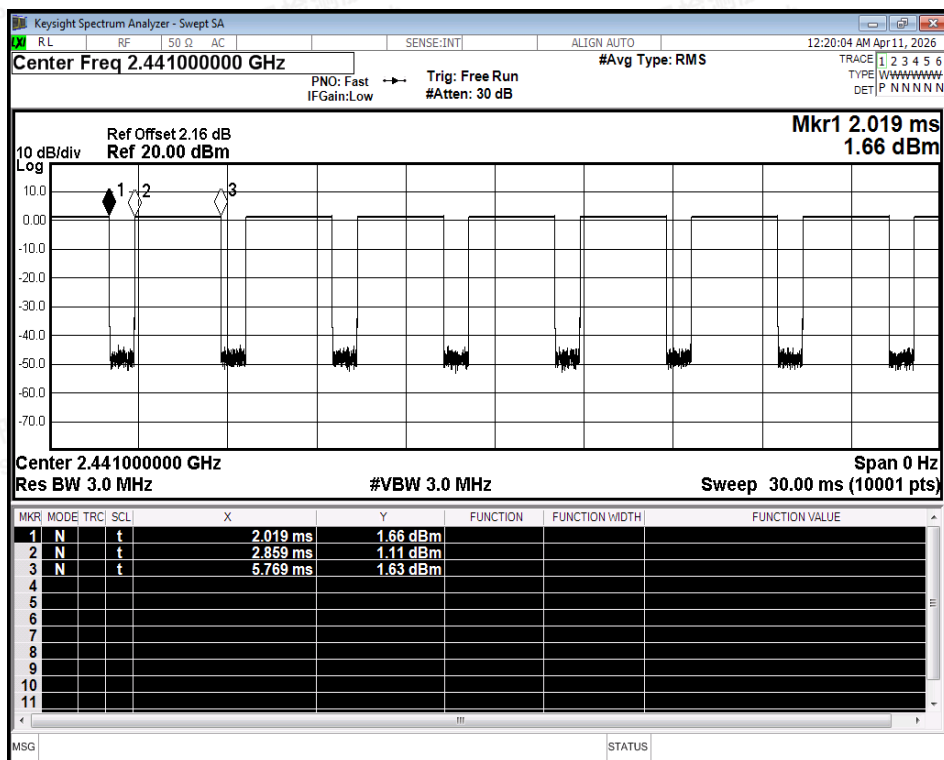
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1

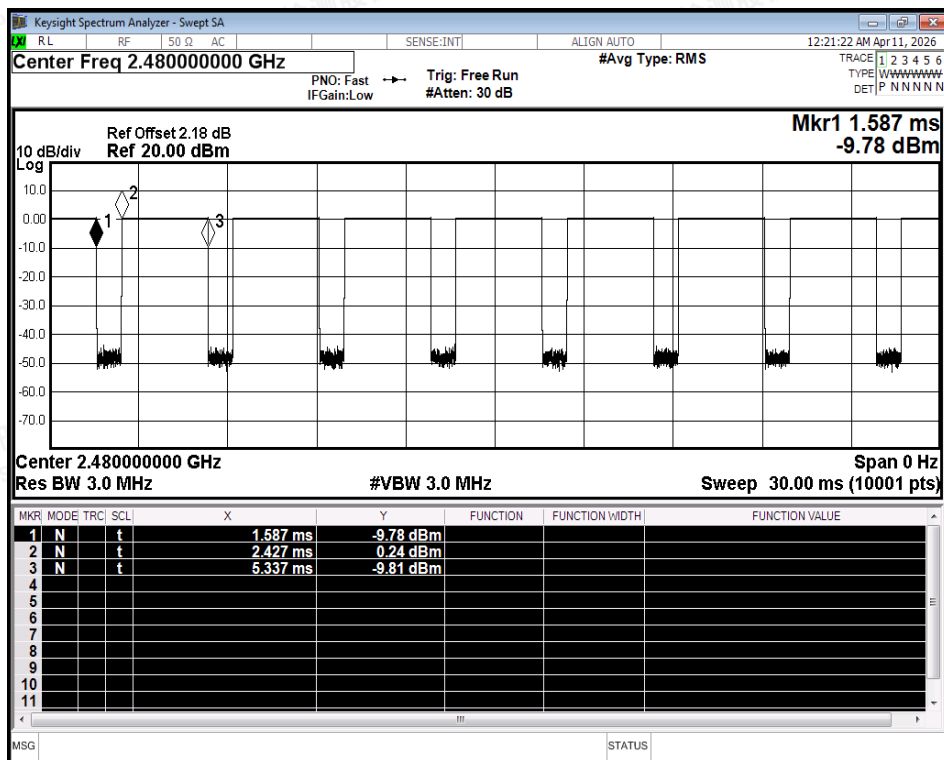


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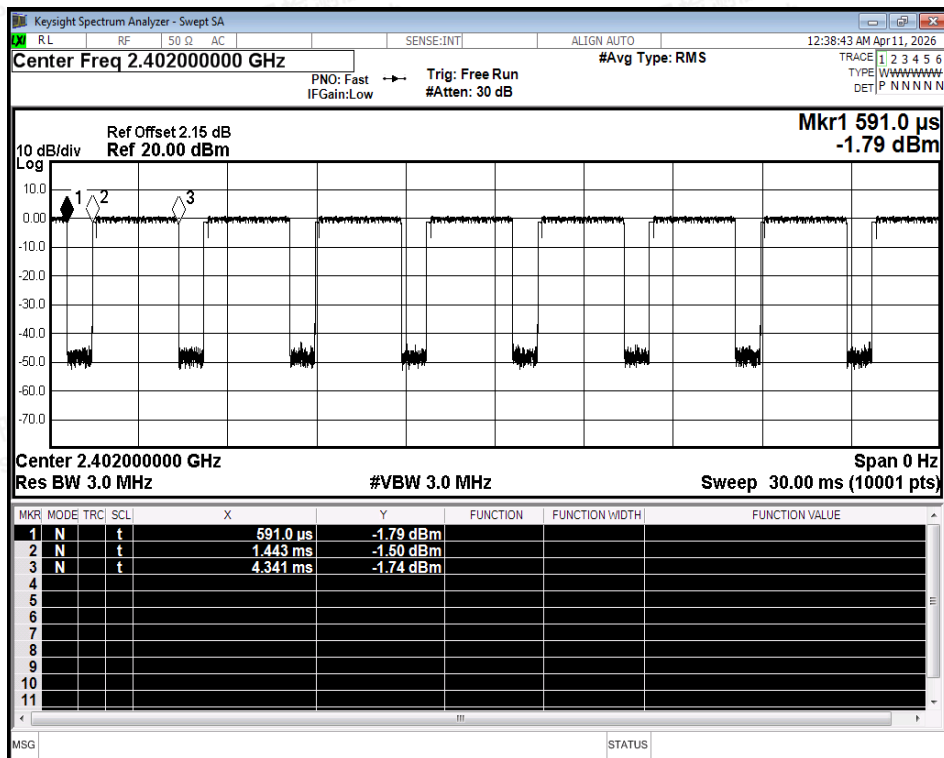
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1

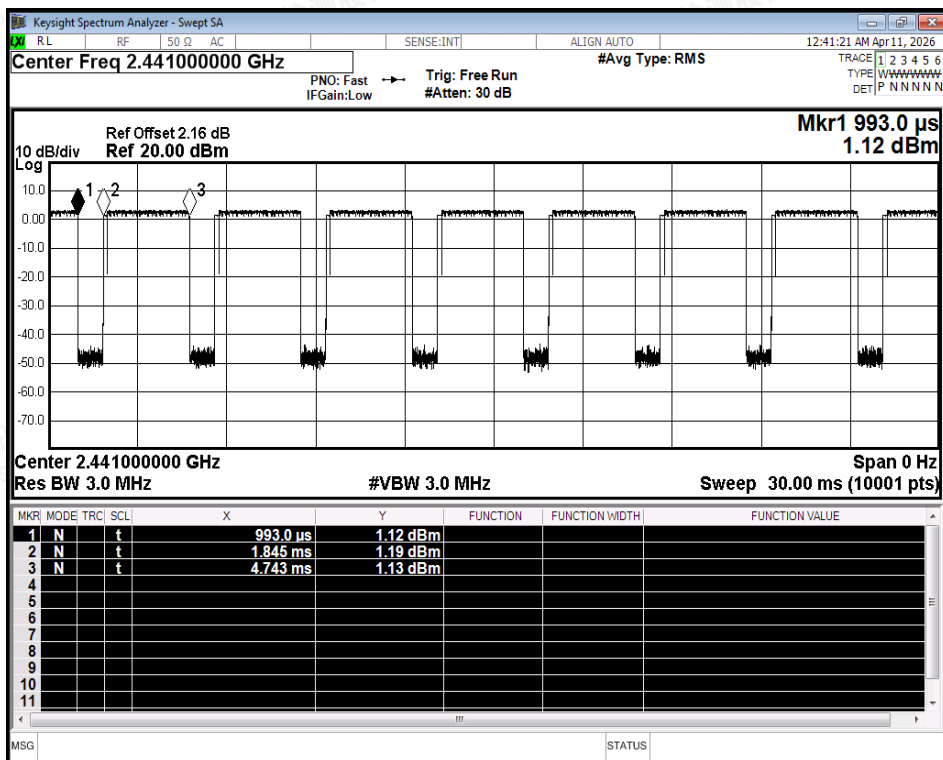


Shenzhen LCS Compliance Testing Laboratory Ltd.

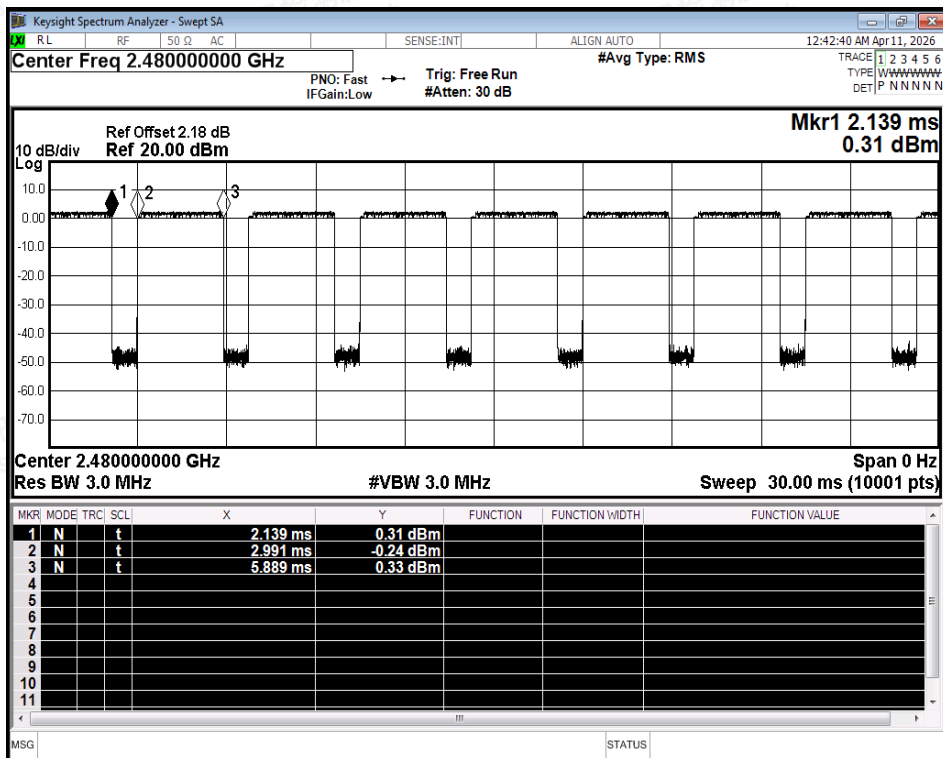
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1

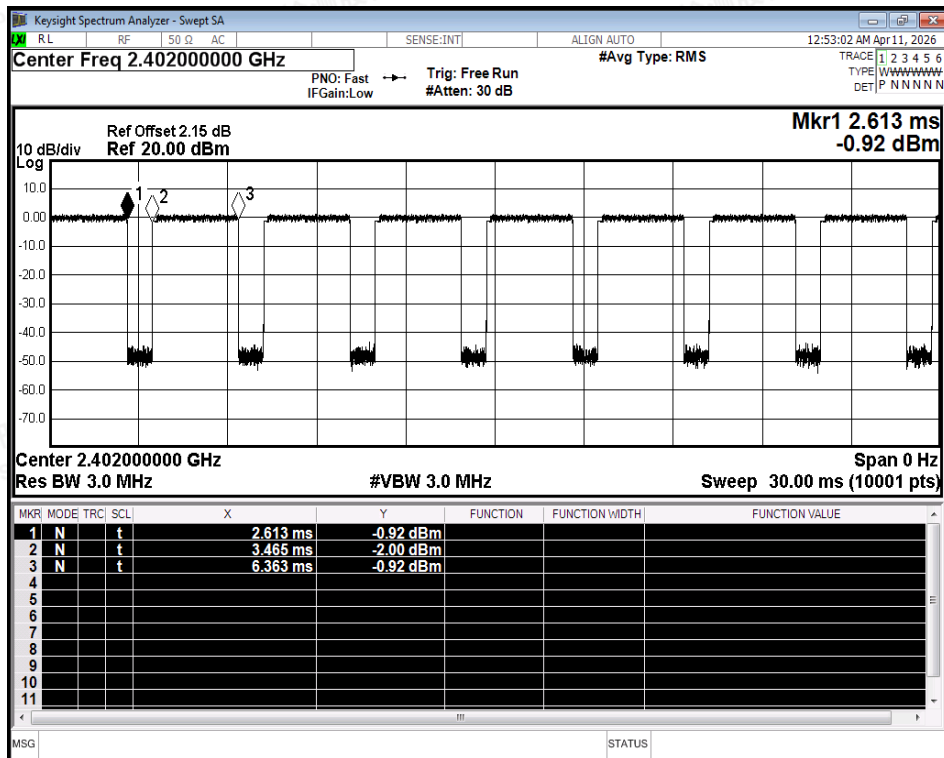


Shenzhen LCS Compliance Testing Laboratory Ltd.

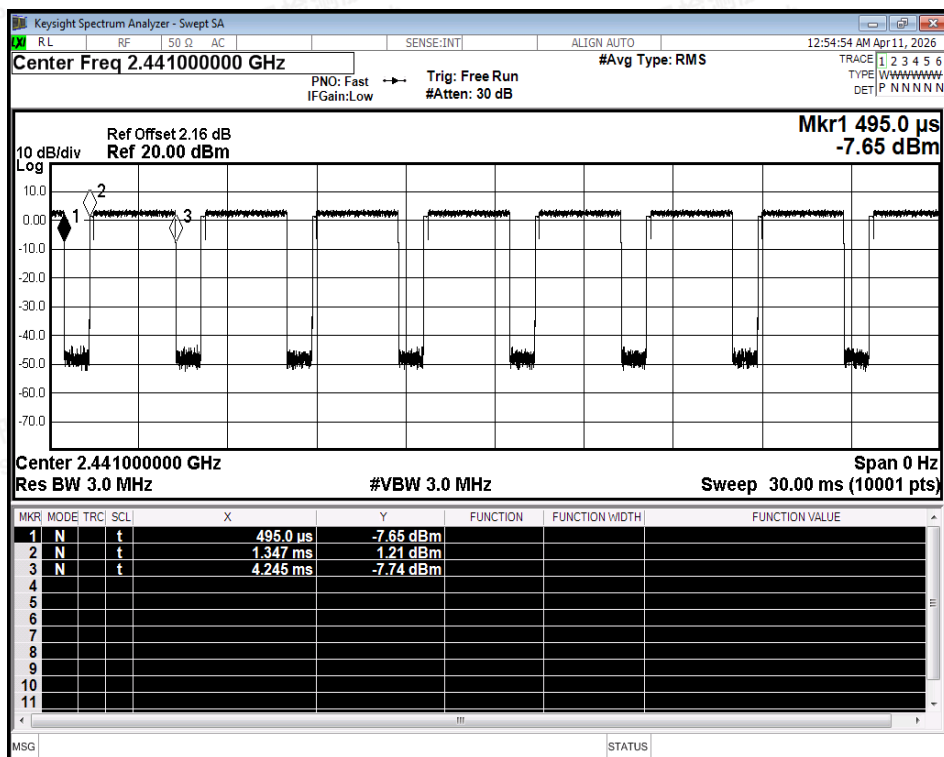
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

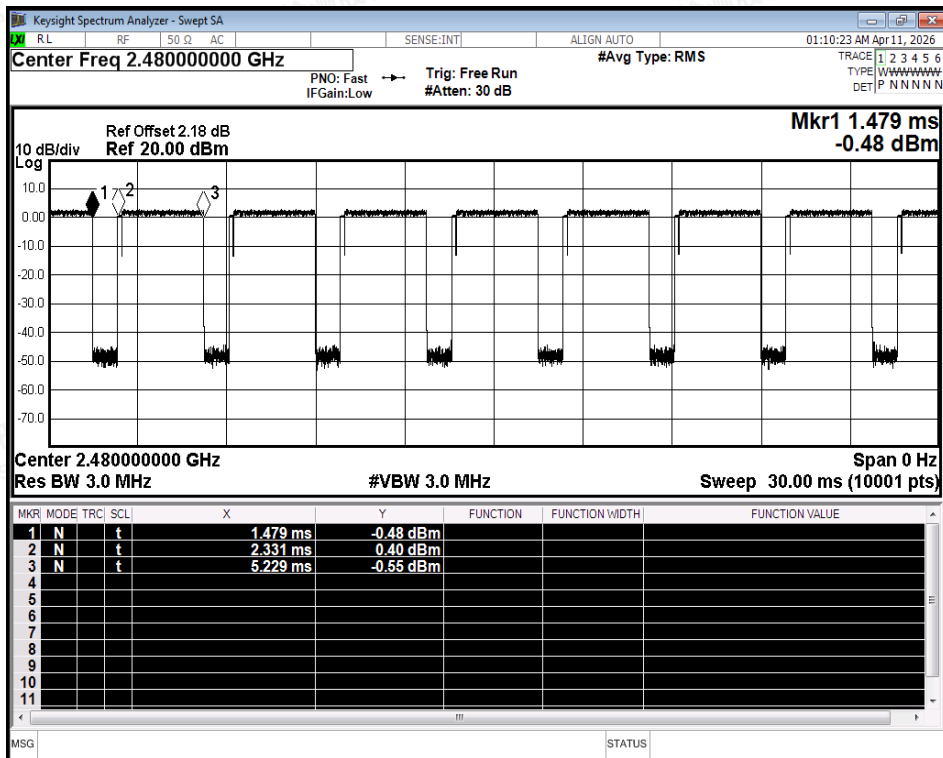


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Duty Cycle NVNT 3-DH5 2480MHz Ant1



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A.9 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	-49.71	2.70	48.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.57	2.70	40.39	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2355.888	-47.31	2.70	50.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2326.992	-57.32	2.70	40.64	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.93	2.70	48.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.66	2.70	40.30	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.71	2.70	47.25	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.69	2.70	42.27	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.8	-45.63	2.70	52.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.69	2.70	42.27	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.33	2.70	47.63	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.49	2.70	40.47	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51	2.70	46.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.55	2.70	40.41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2348.304	-46.59	2.70	51.37	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310.768	-57.36	2.70	40.60	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.47	2.70	47.49	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.66	2.70	40.30	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-44.19	2.70	53.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.75	2.70	44.21	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-44.19	2.70	53.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-53.75	2.70	44.21	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.37	2.70	46.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.46	2.70	40.50	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.21	2.70	46.75	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.54	2.70	40.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2321.424	-47.1	2.70	50.86	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2315.184	-57.41	2.70	40.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.72	2.70	47.24	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.57	2.70	40.39	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-44.5	2.70	53.46	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.49	2.70	44.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-44.5	2.70	53.46	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.49	2.70	44.47	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.22	2.70	47.74	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.31	2.70	40.65	Average	54	Pass

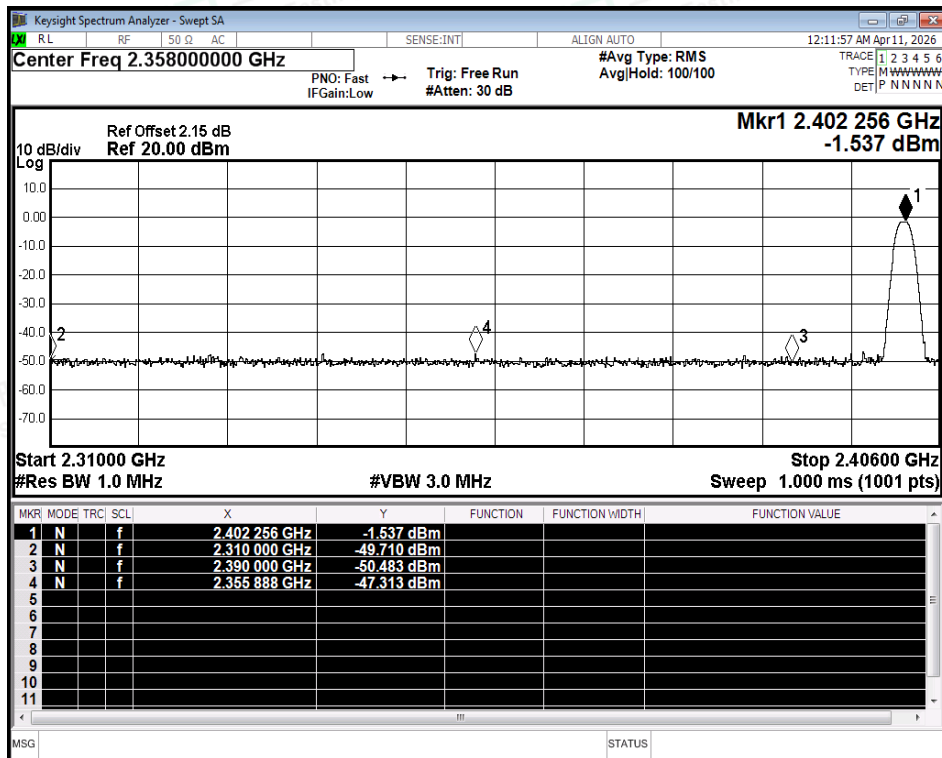


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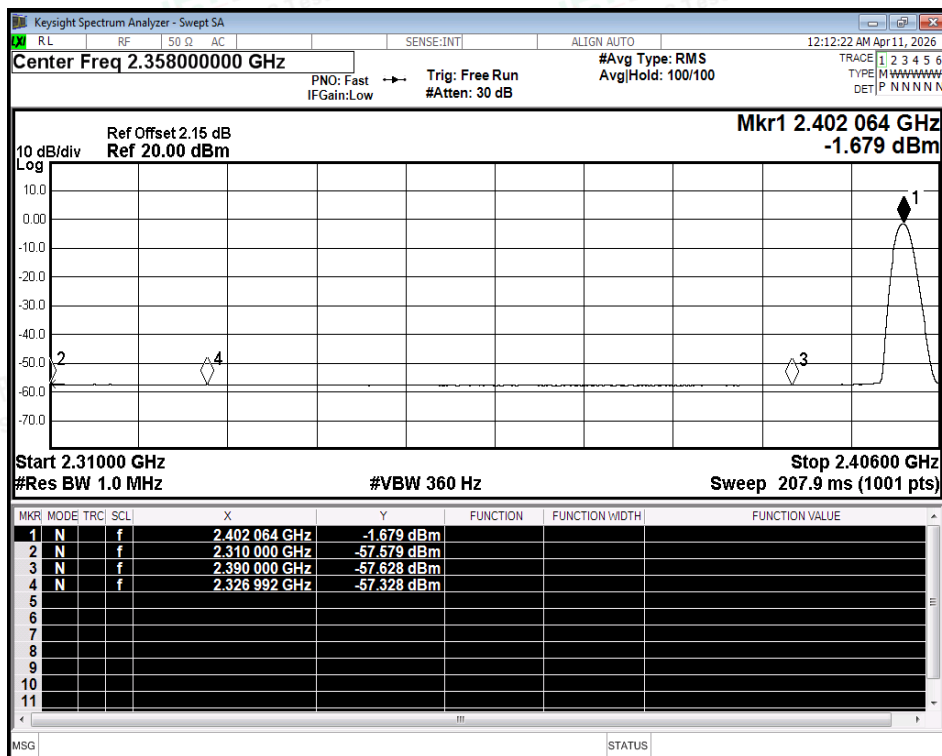
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Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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

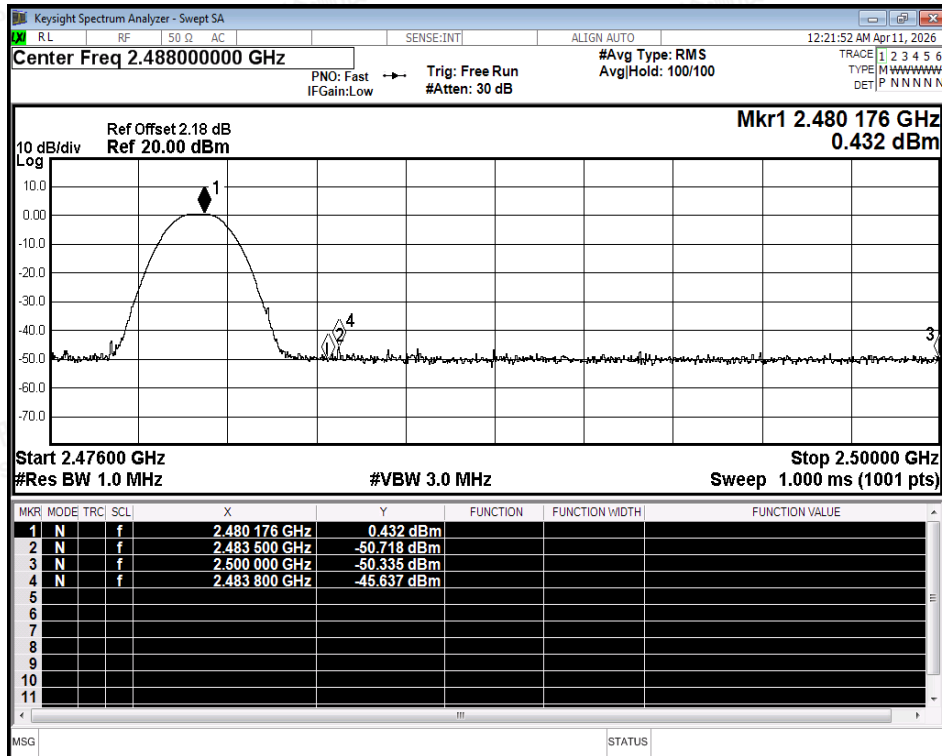


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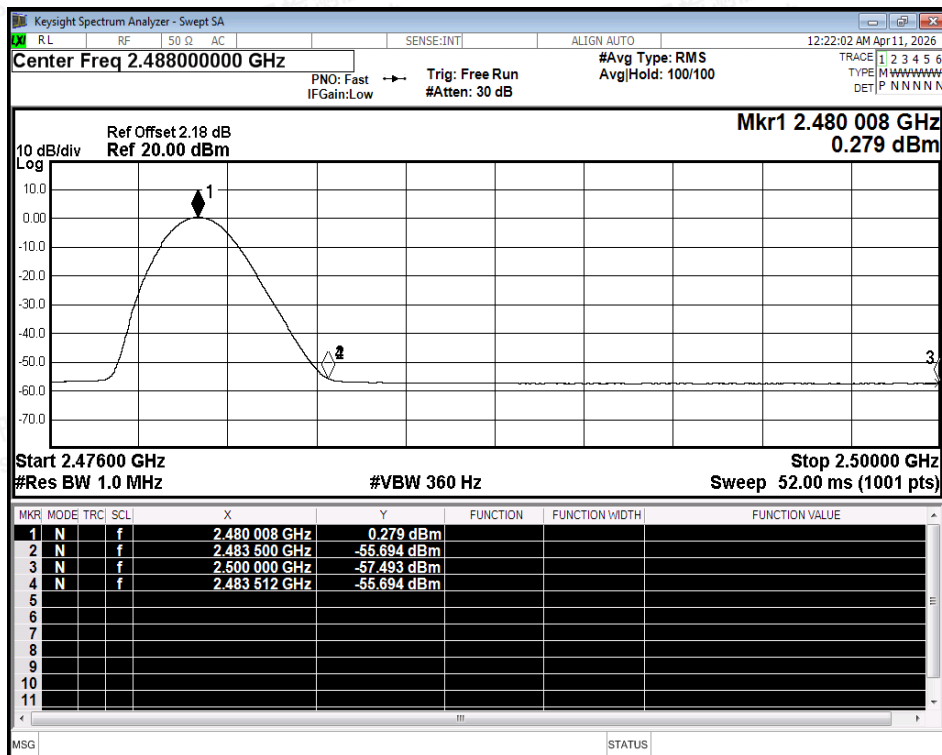
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

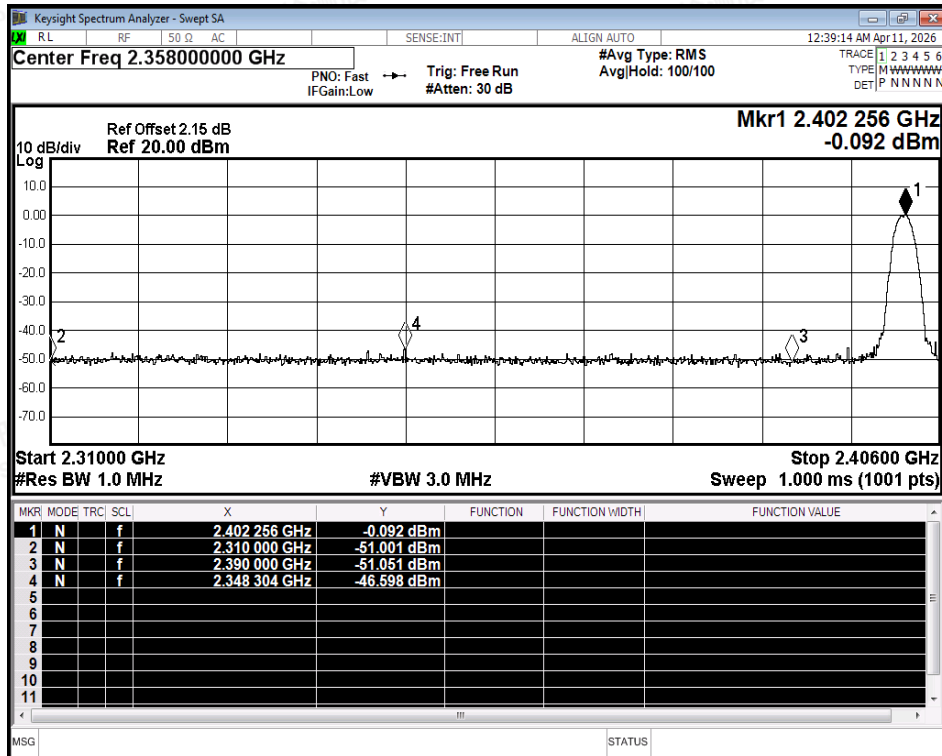


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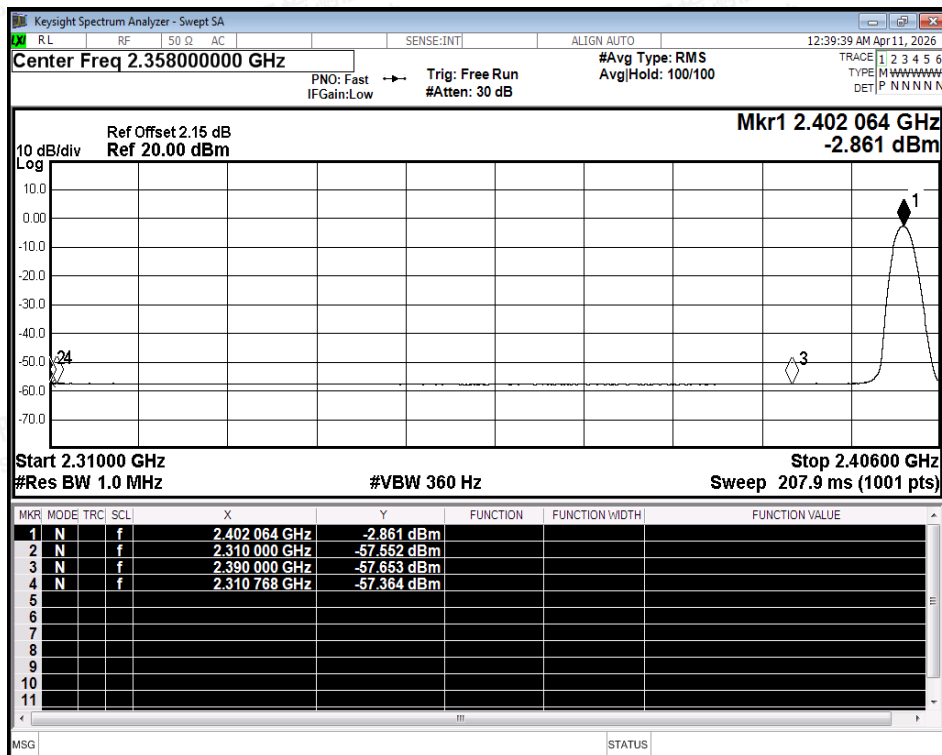
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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

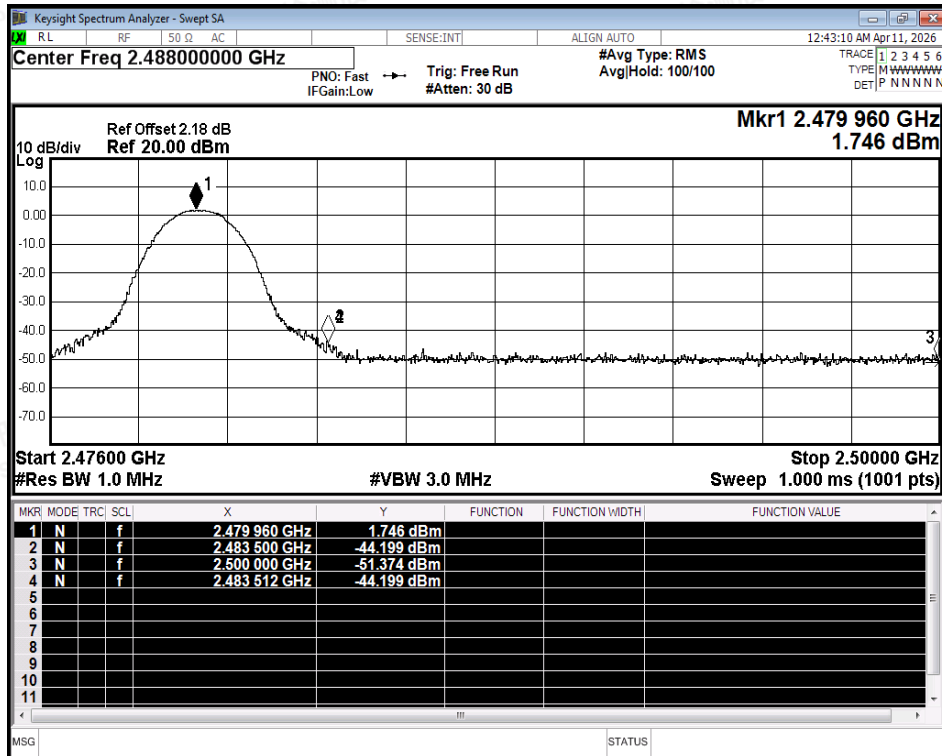


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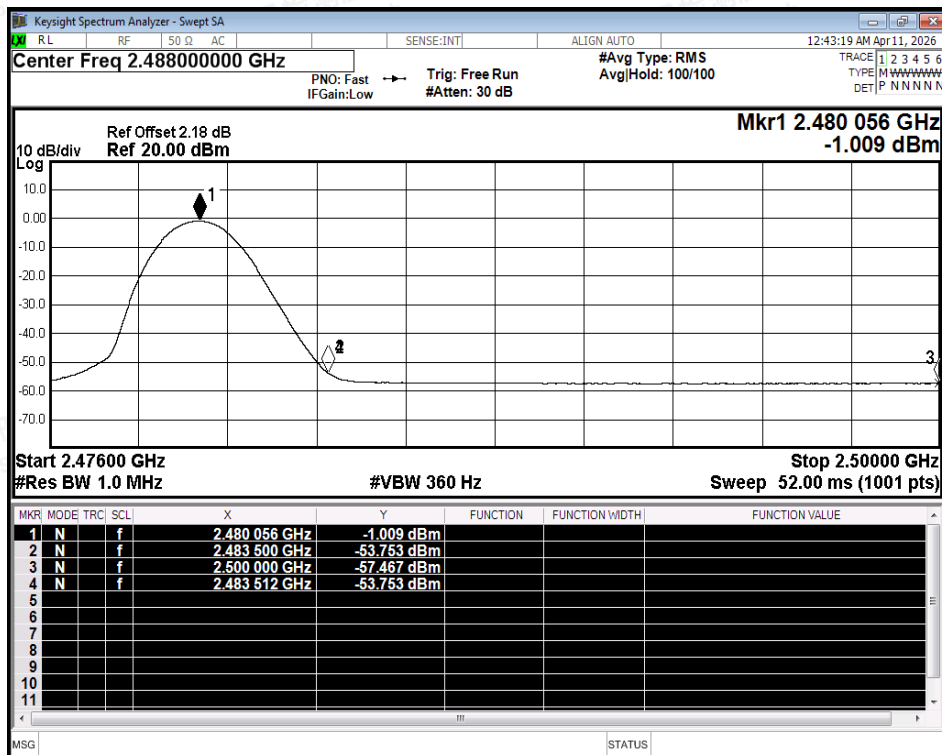
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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

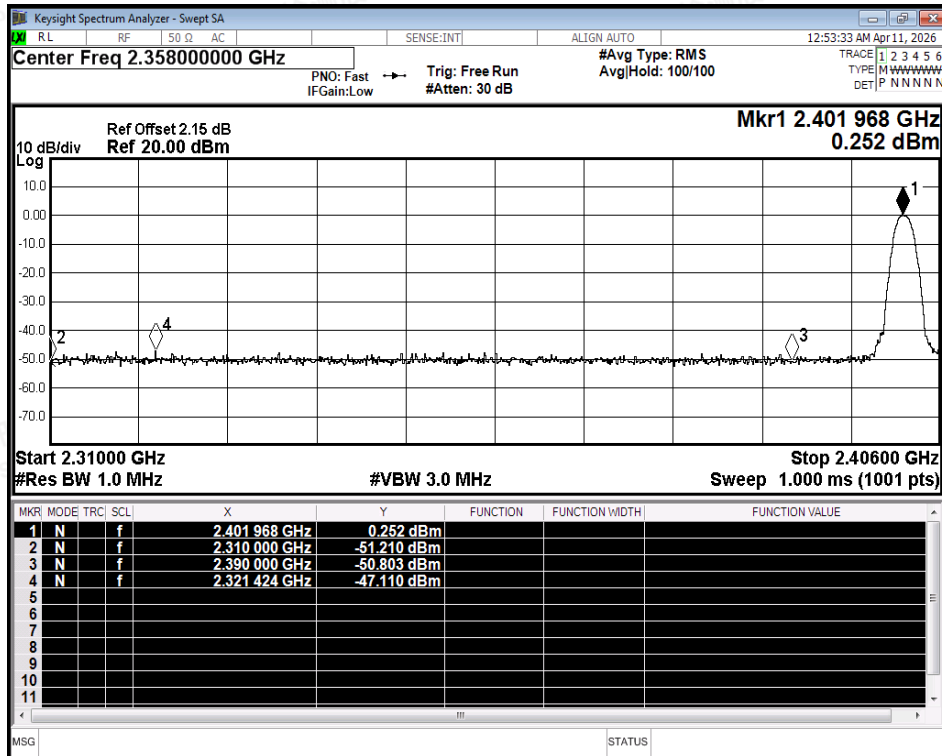


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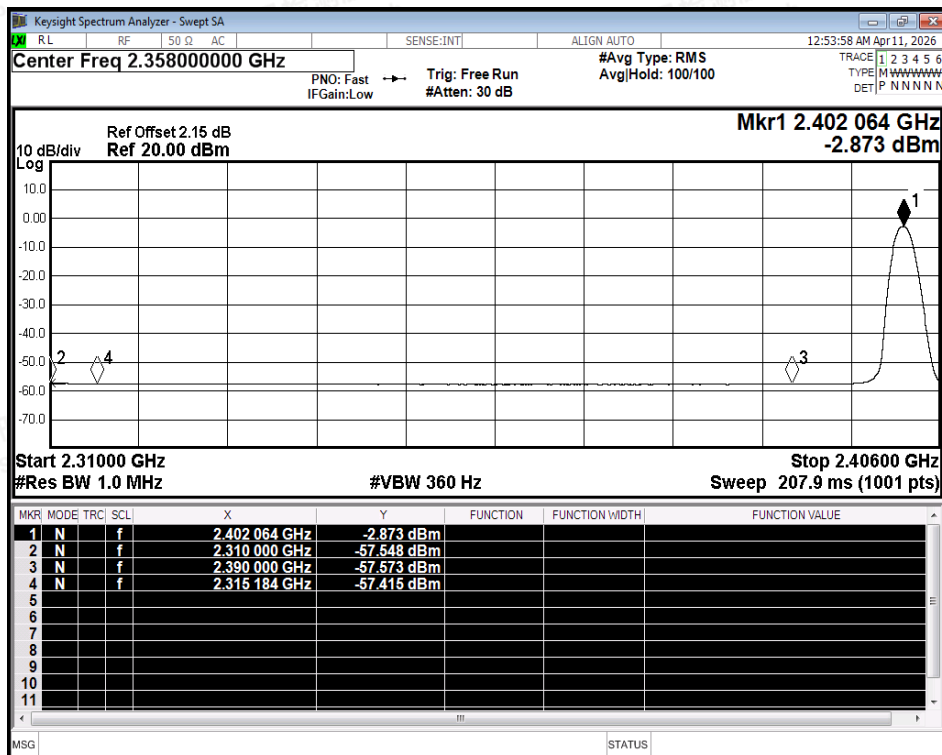
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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

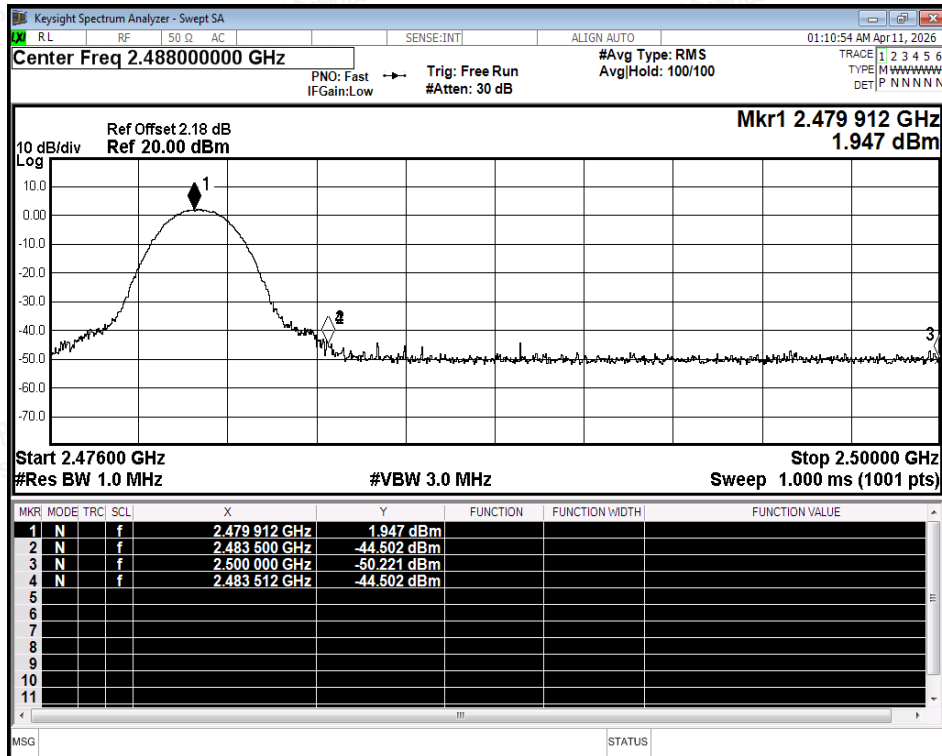


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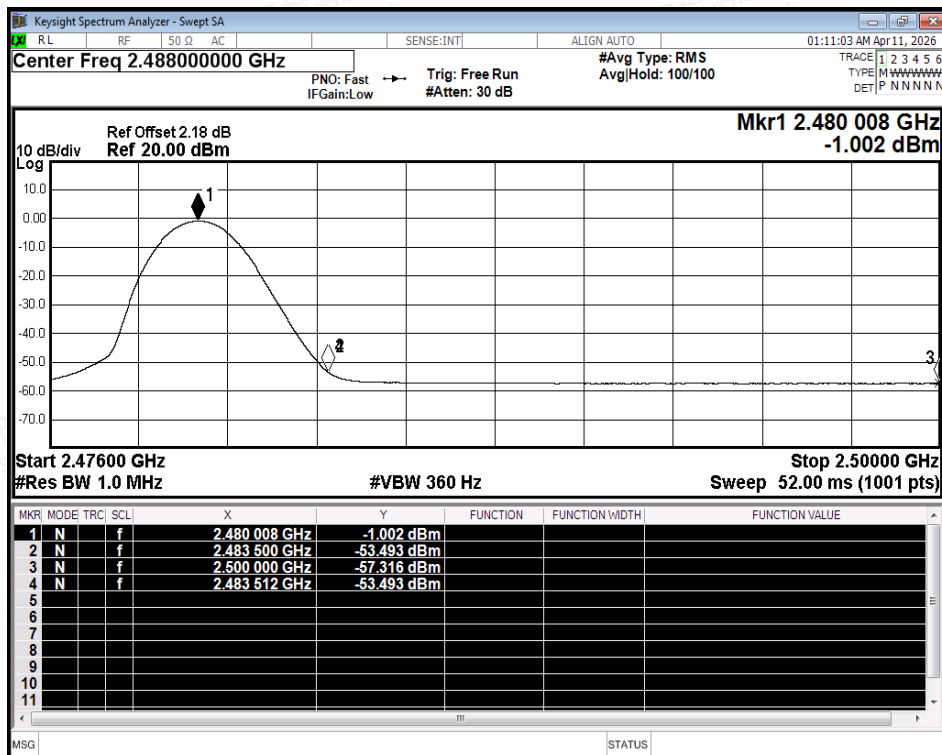
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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