



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Intelligent Automotive Detection Tool

Test Model: ST08 V2.0

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	0.8553	No Limited	Pass
NVNT	1-DH5	2441	Ant1	0.8532	No Limited	Pass
NVNT	1-DH5	2480	Ant1	0.8471	No Limited	Pass
NVNT	2-DH5	2402	Ant1	1.275	No Limited	Pass
NVNT	2-DH5	2441	Ant1	1.28	No Limited	Pass
NVNT	2-DH5	2480	Ant1	1.281	No Limited	Pass
NVNT	3-DH5	2402	Ant1	1.285	No Limited	Pass
NVNT	3-DH5	2441	Ant1	1.292	No Limited	Pass
NVNT	3-DH5	2480	Ant1	1.27	No Limited	Pass

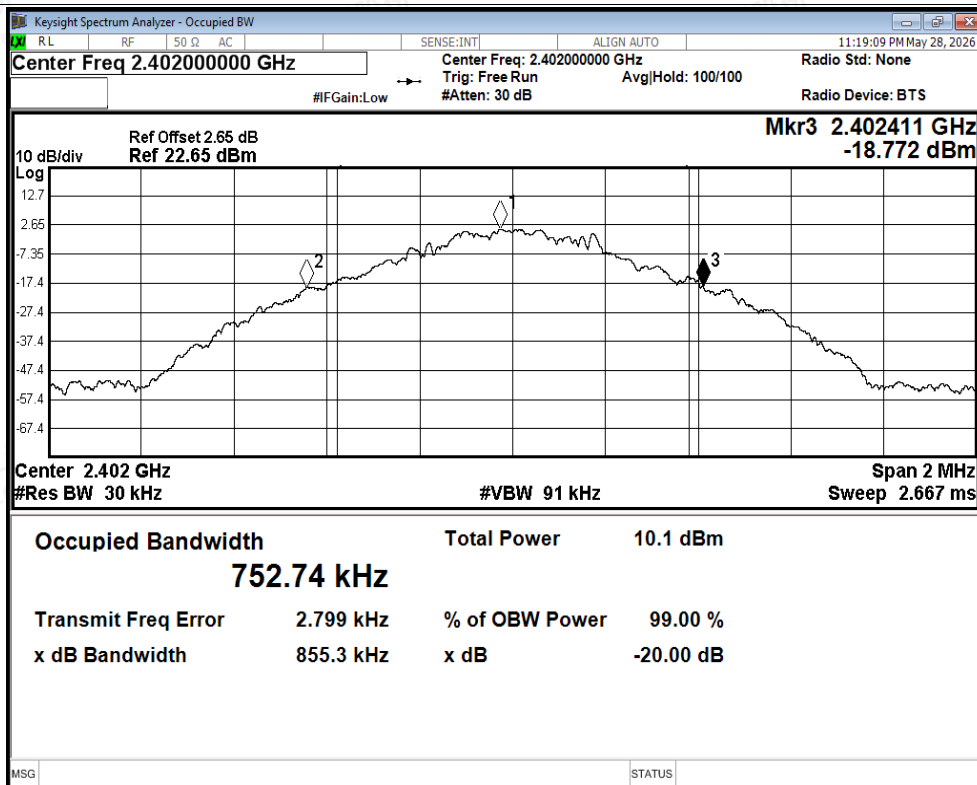


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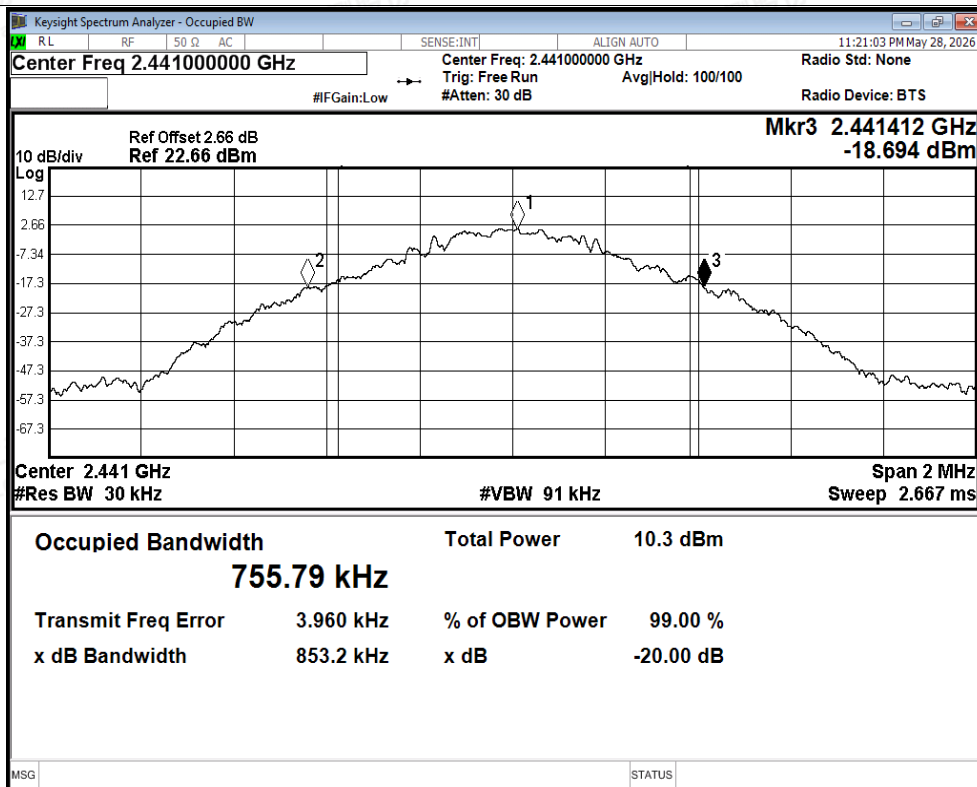
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-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

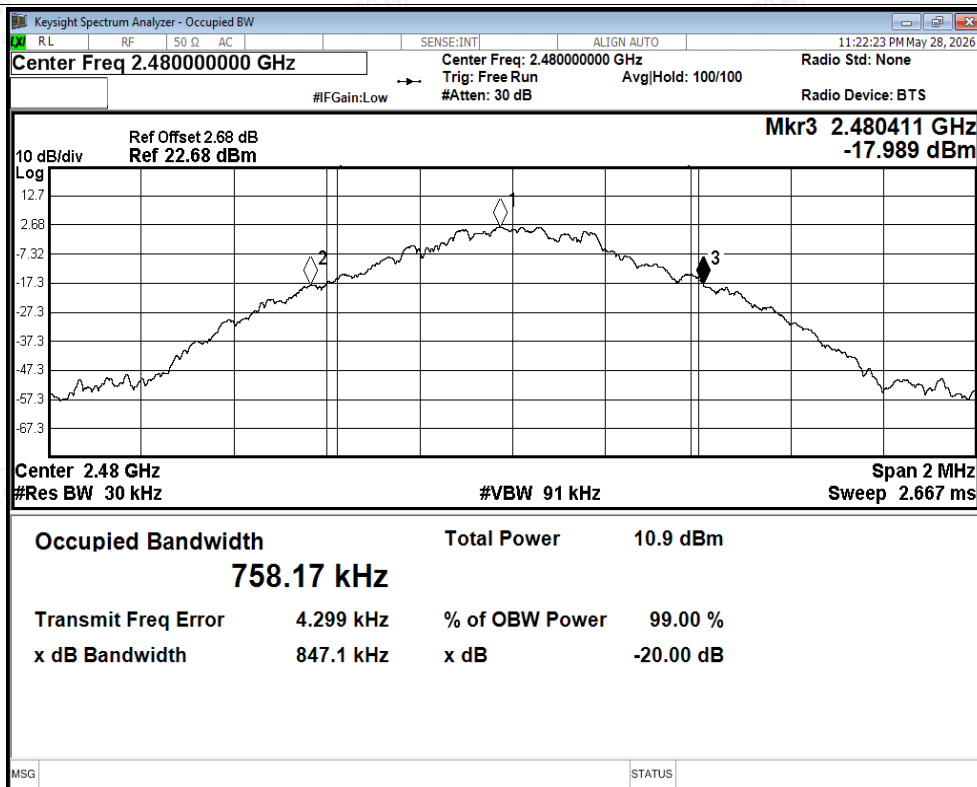


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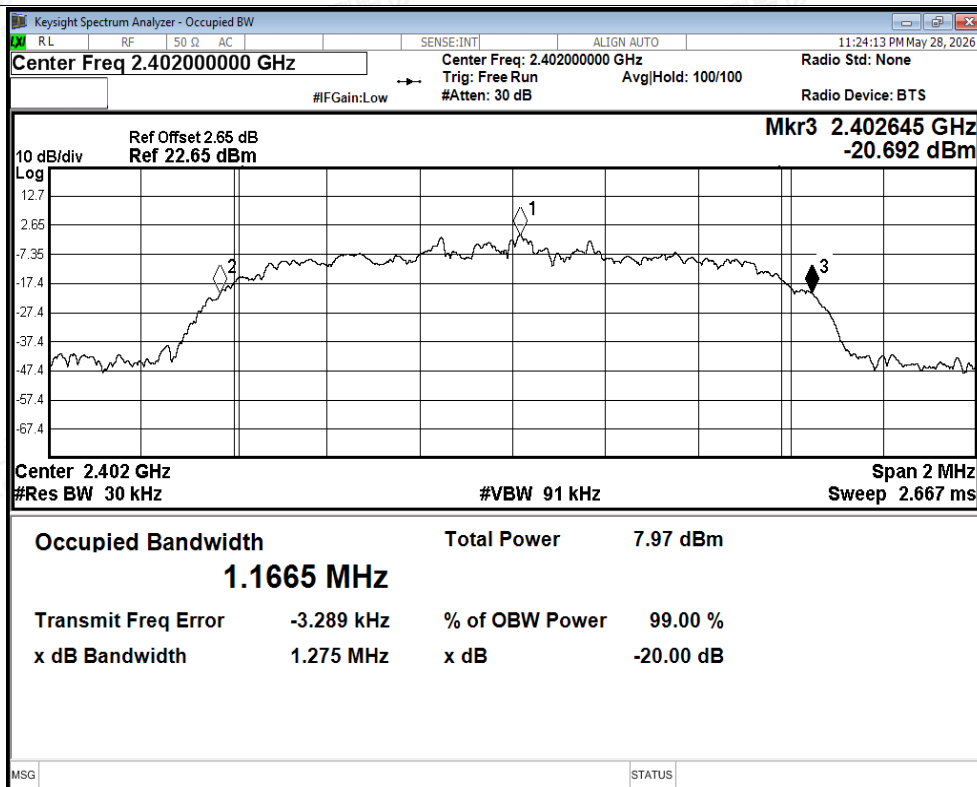
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

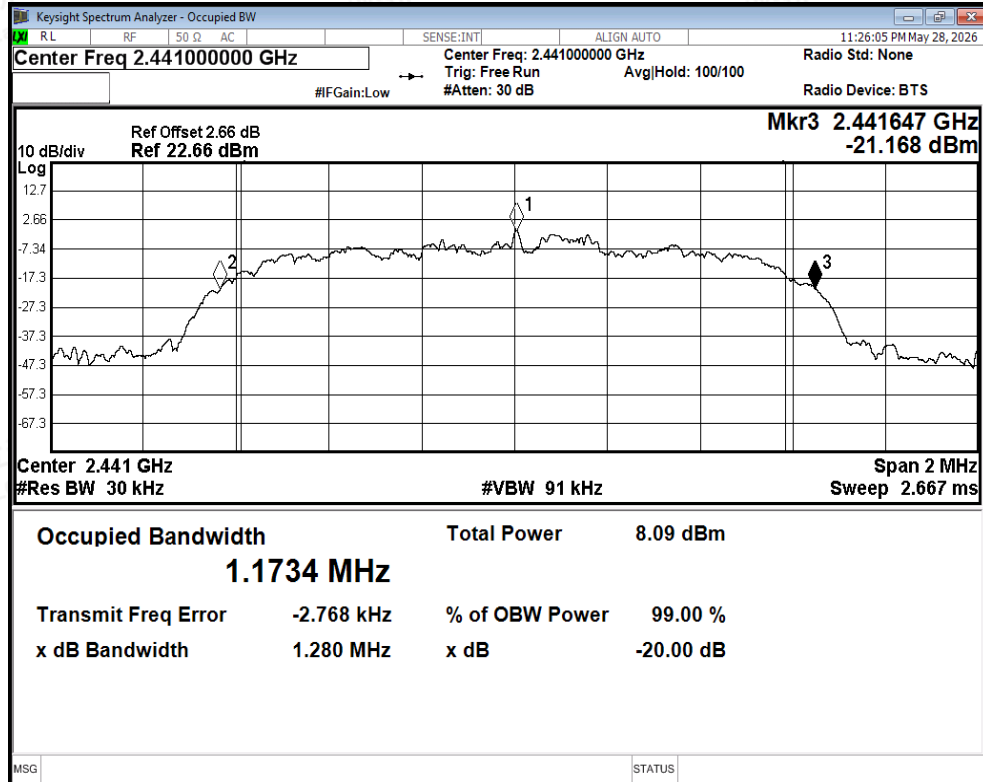


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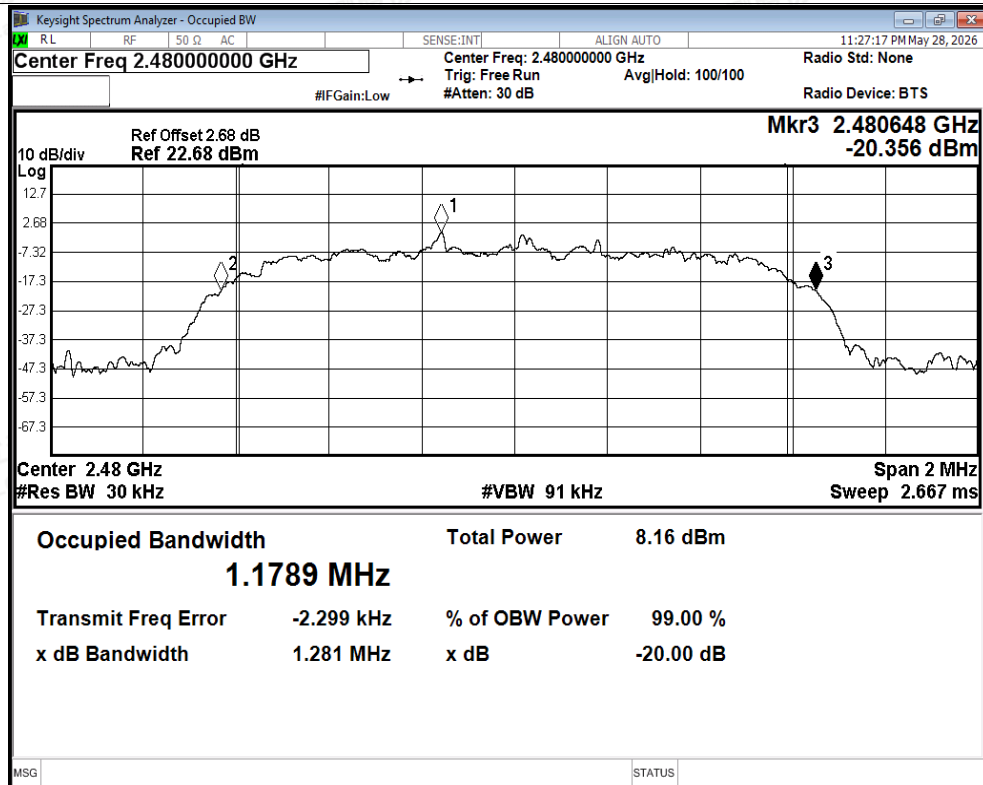
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

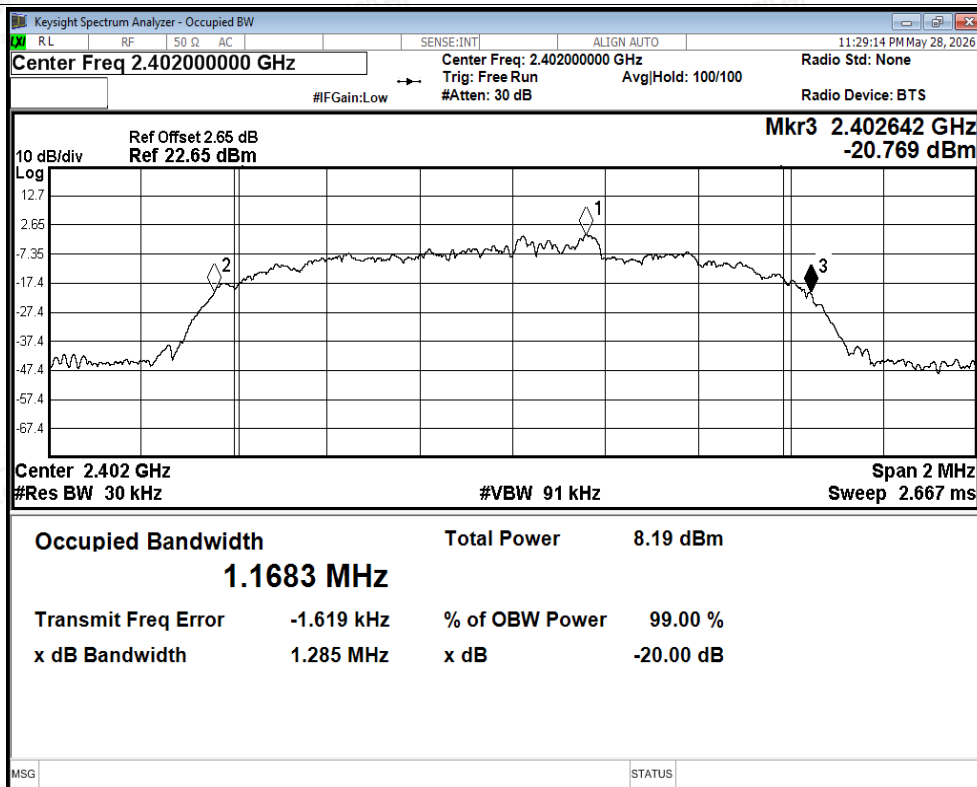


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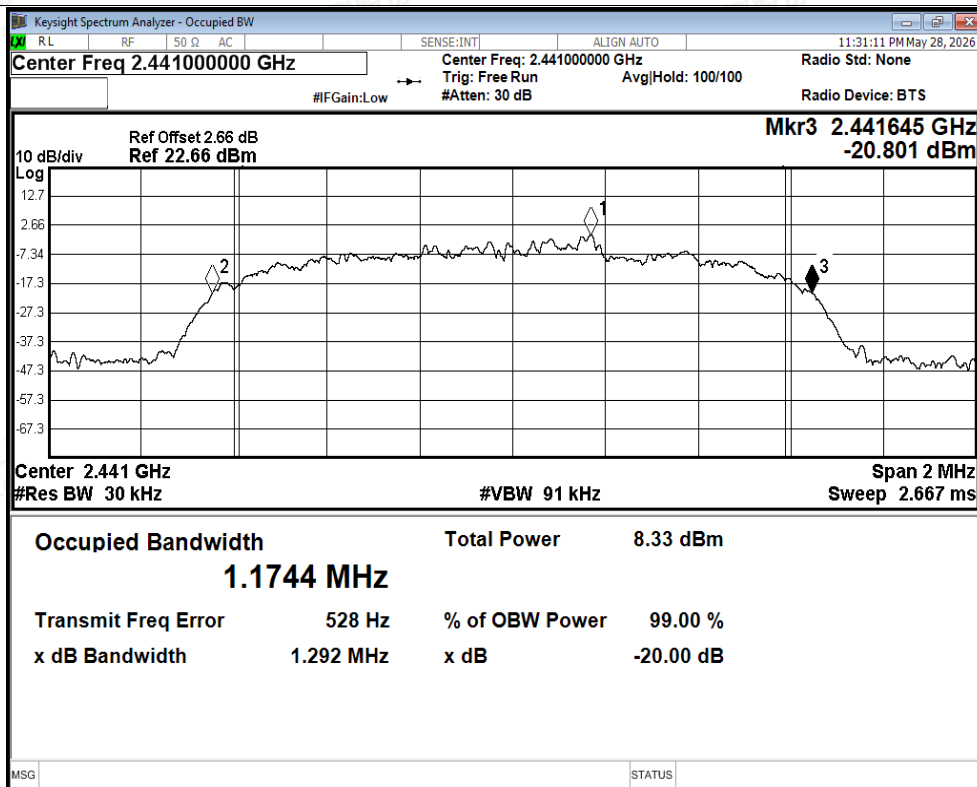
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

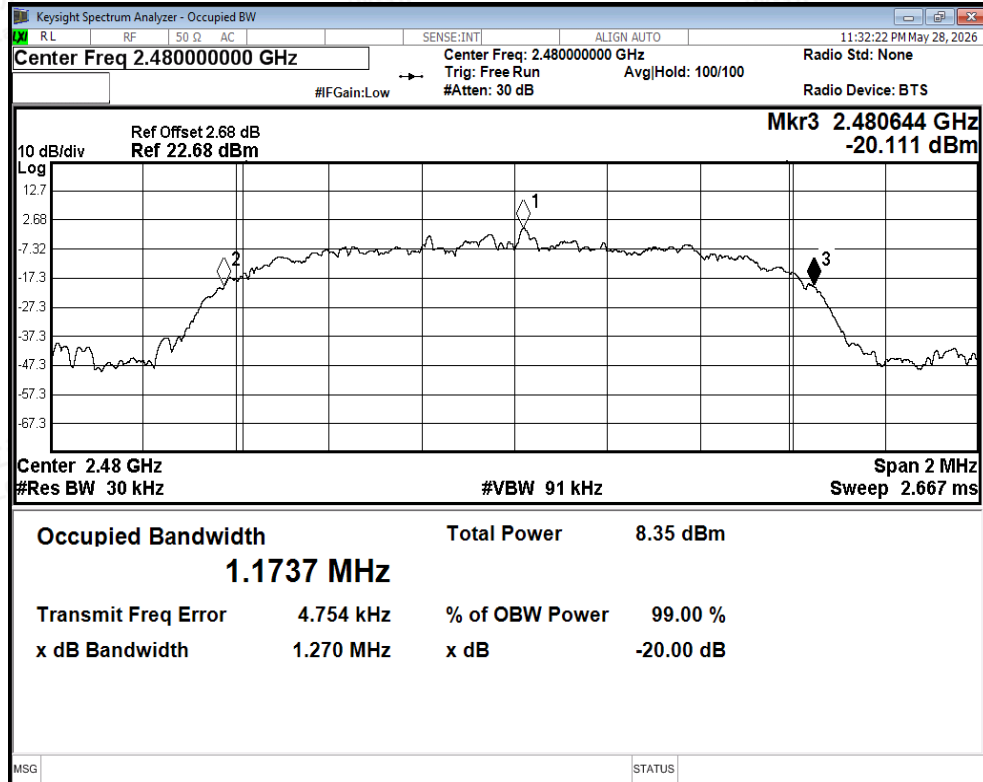


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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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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	3.8	30	Pass
NVNT	1-DH5	2441	Ant1	4.06	30	Pass
NVNT	1-DH5	2480	Ant1	4.69	30	Pass
NVNT	2-DH5	2402	Ant1	3.1	30	Pass
NVNT	2-DH5	2441	Ant1	3.42	30	Pass
NVNT	2-DH5	2480	Ant1	3.96	30	Pass
NVNT	3-DH5	2402	Ant1	3.1	30	Pass
NVNT	3-DH5	2441	Ant1	3.44	30	Pass
NVNT	3-DH5	2480	Ant1	4.01	30	Pass

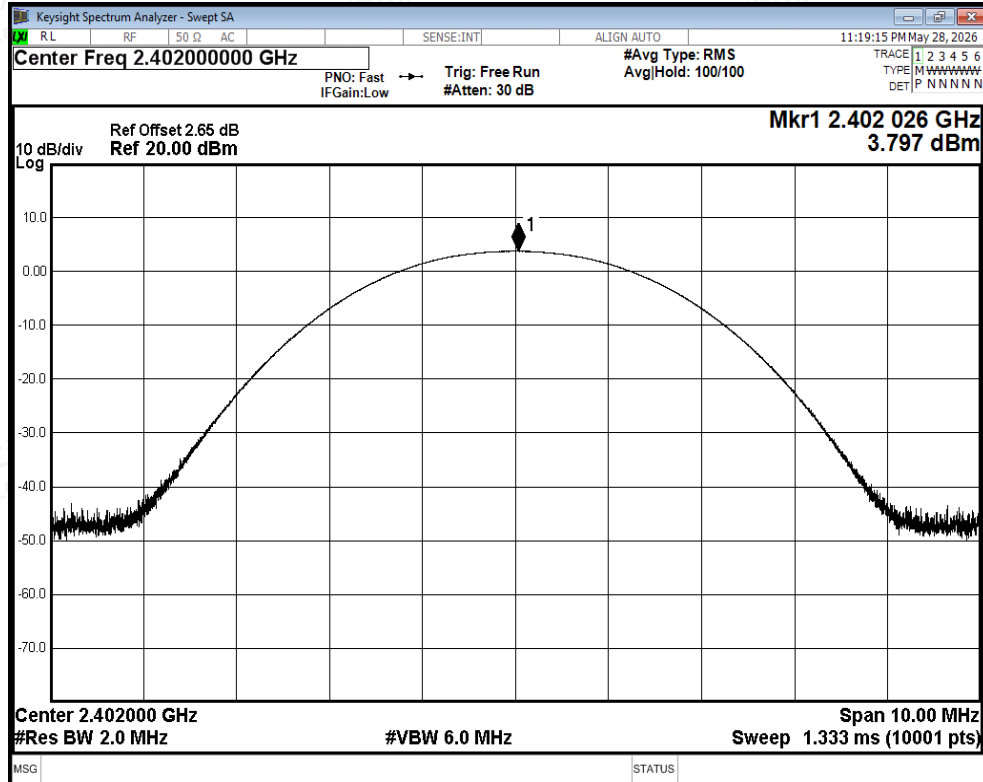


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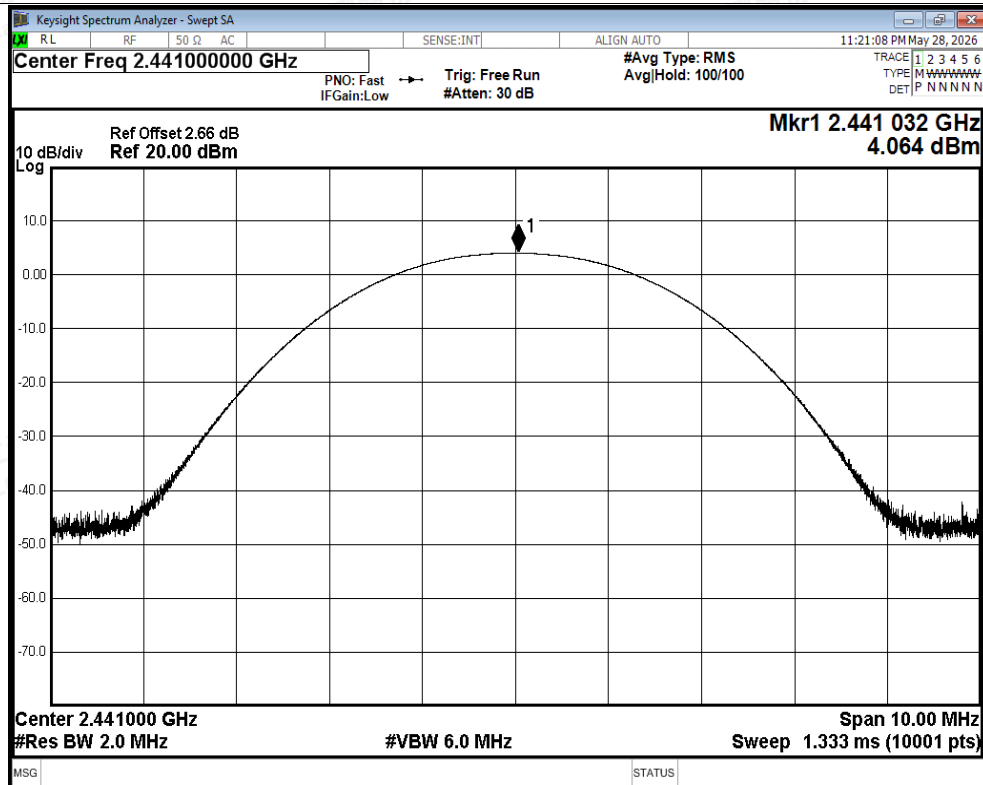
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Peak Power NVNT 1-DH5 2402MHz Ant1



Peak Power NVNT 1-DH5 2441MHz Ant1

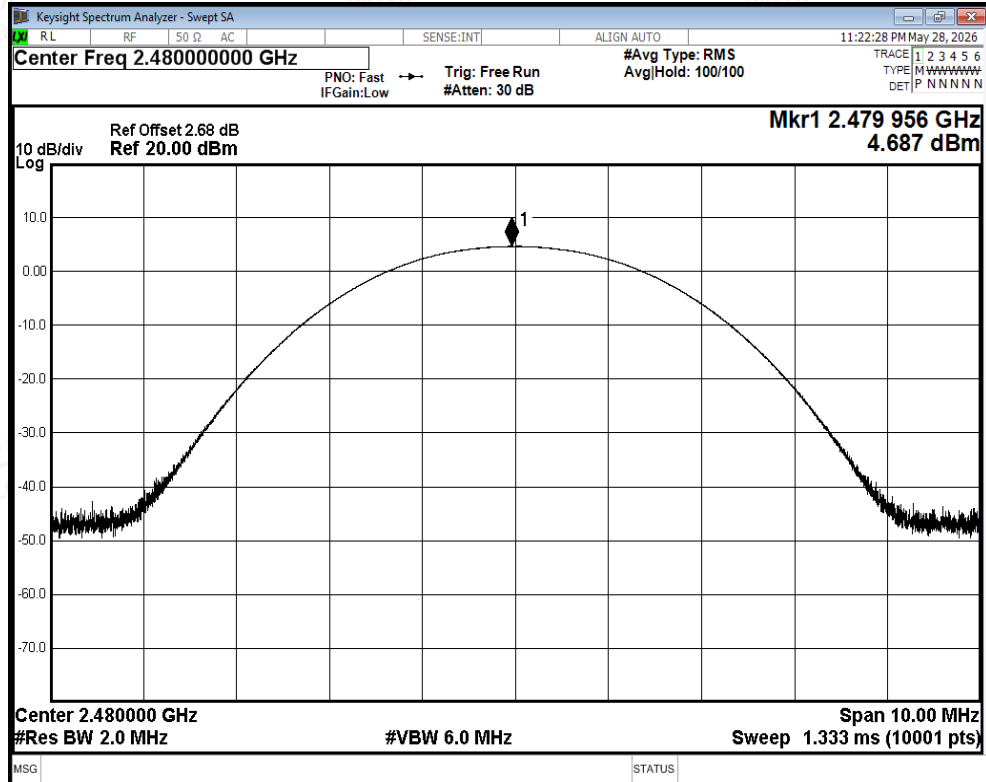


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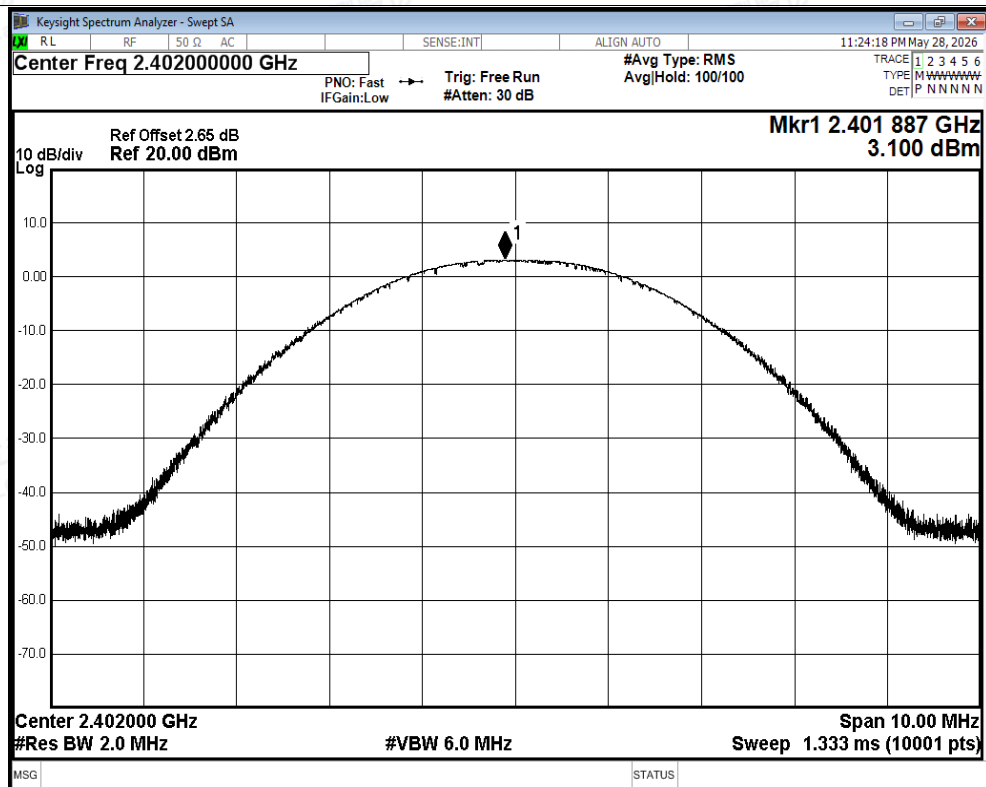
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Peak Power NVNT 1-DH5 2480MHz Ant1



Peak Power NVNT 2-DH5 2402MHz Ant1

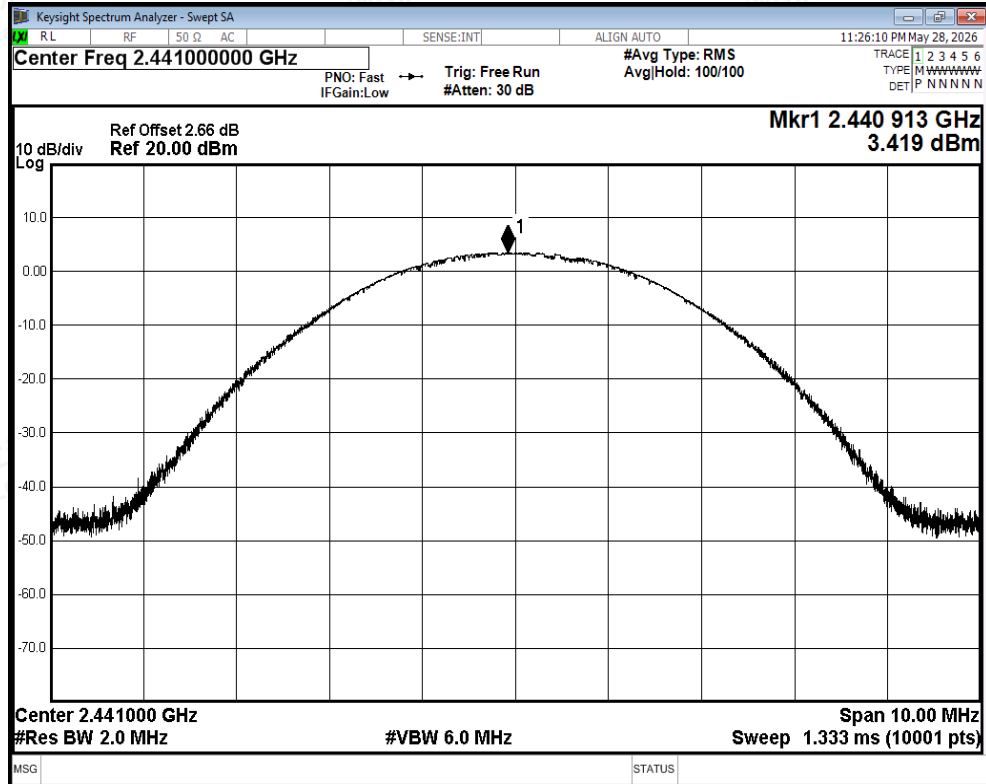


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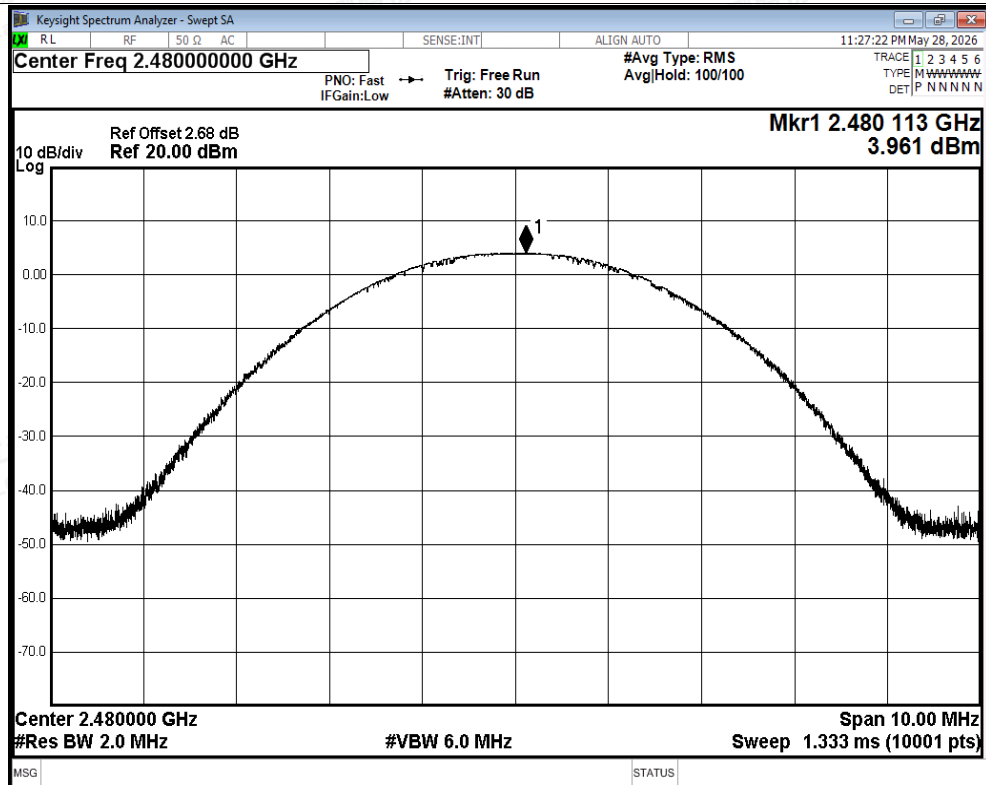
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Peak Power NVNT 2-DH5 2441MHz Ant1



Peak Power NVNT 2-DH5 2480MHz Ant1

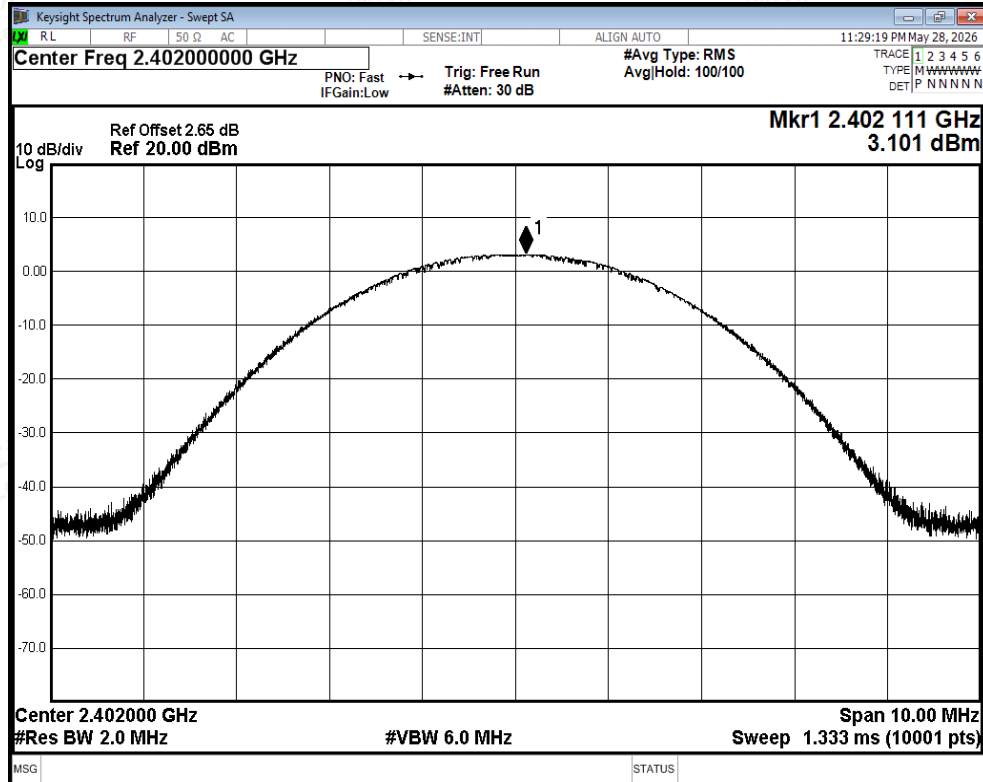


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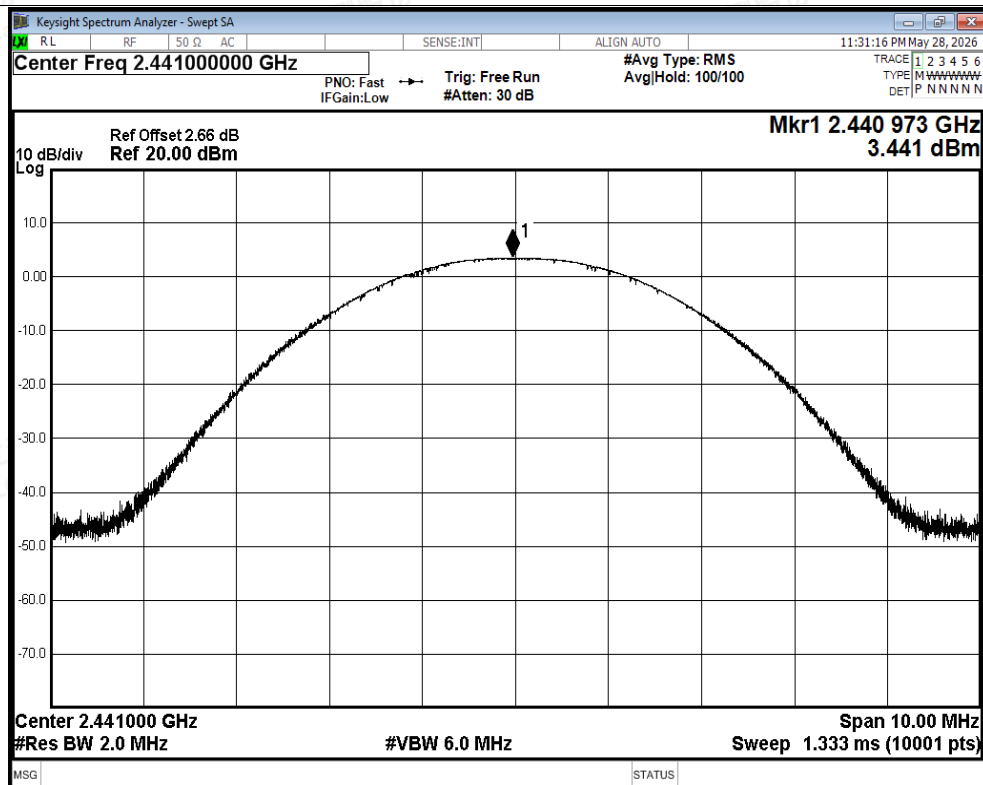
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Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

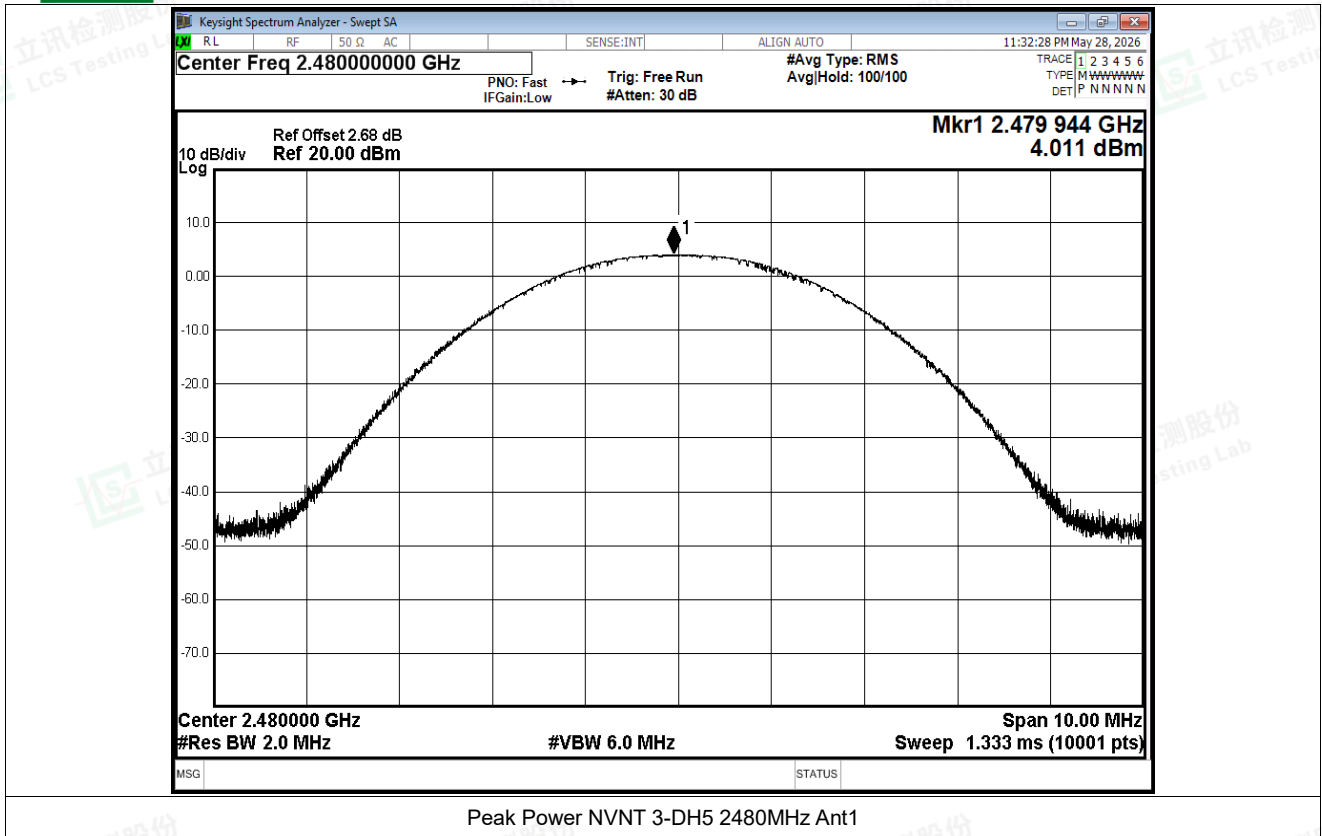


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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.974	2403.01	1.036	0.625	Pass
NVNT	2-DH5	Ant1	2402.162	2403.16	0.998	0.857	Pass
NVNT	3-DH5	Ant1	2402.152	2403.154	1.002	0.86	Pass

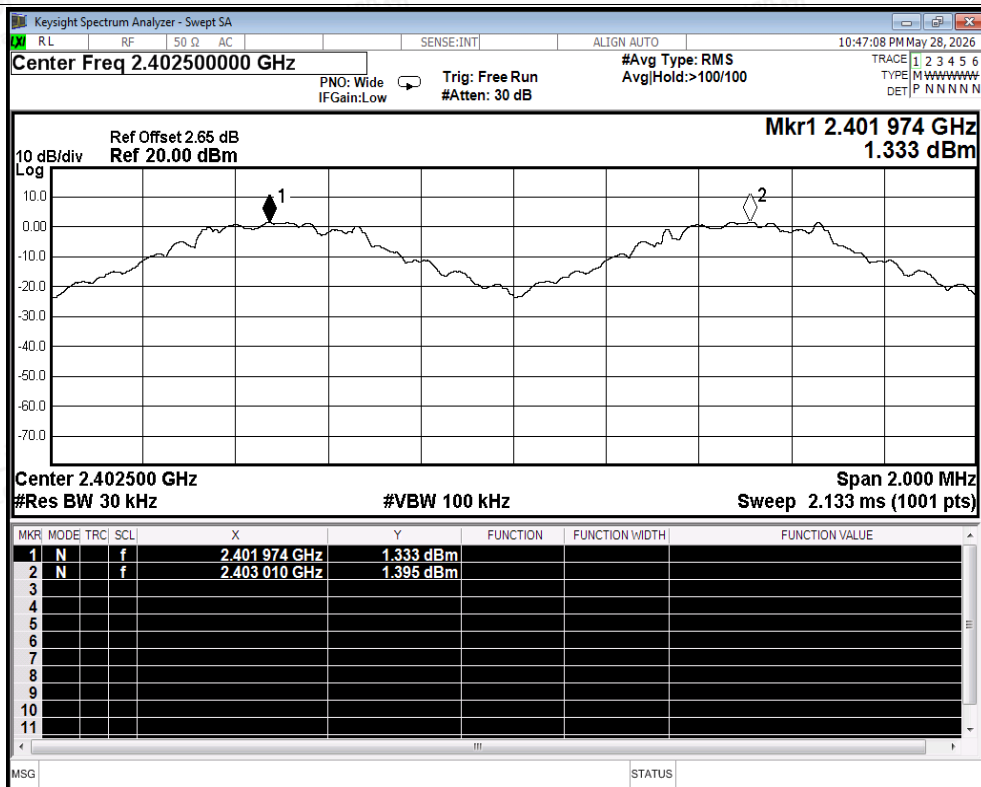


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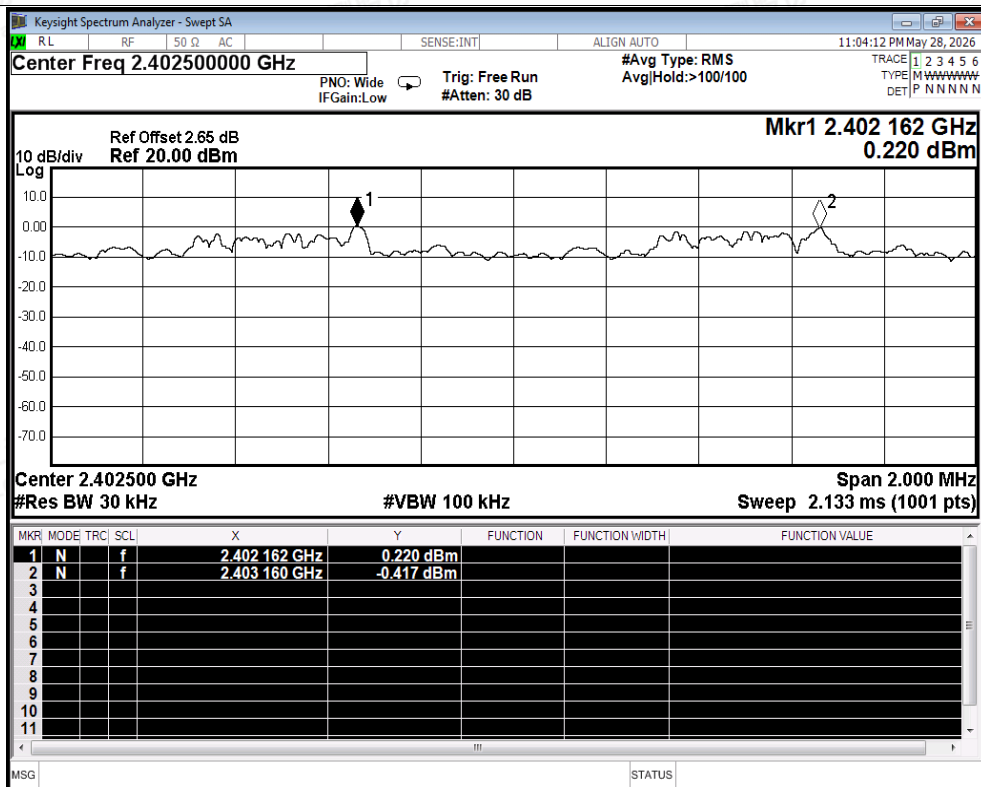
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CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

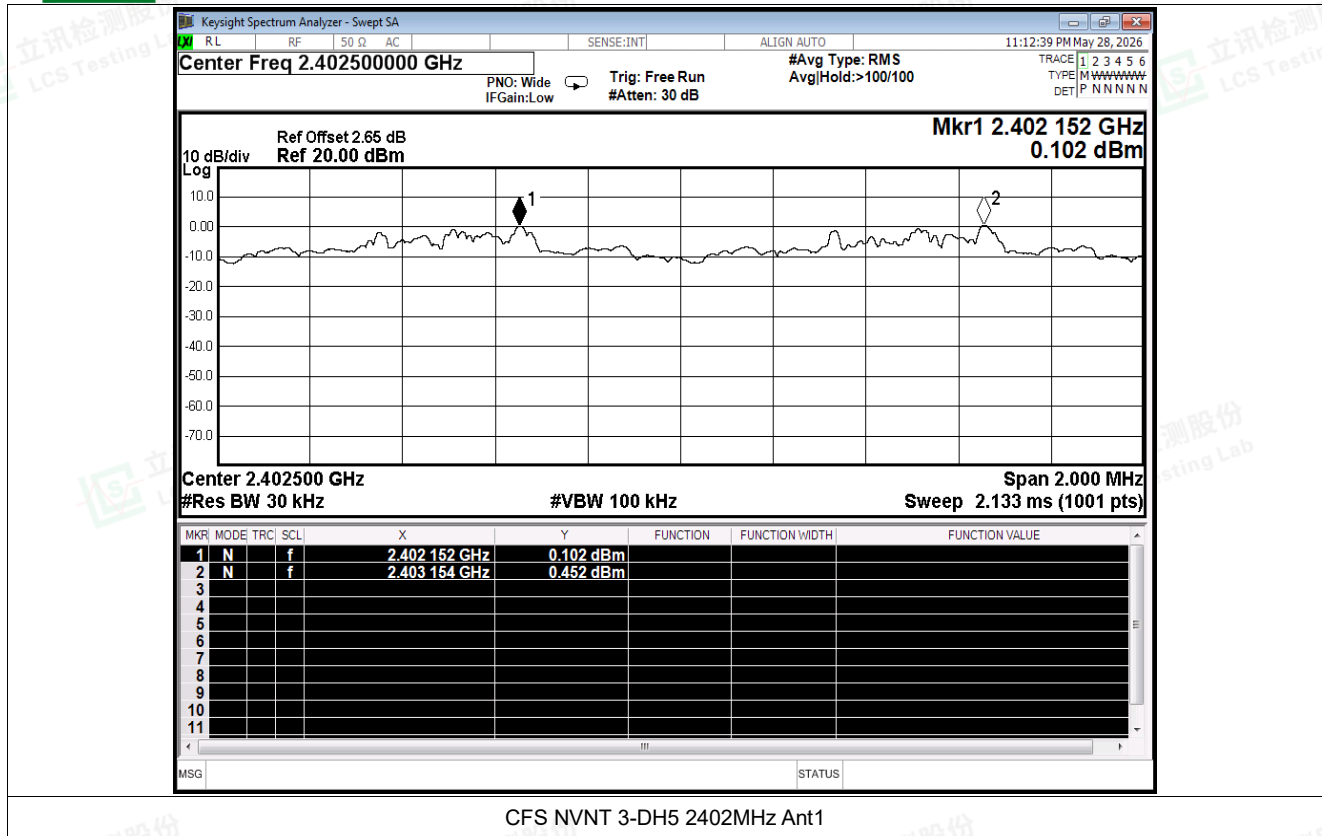


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A.4 Dwell Time

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	2.881	314.029	109	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.879	276.384	96	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.879	287.9	100	31600	400	Pass

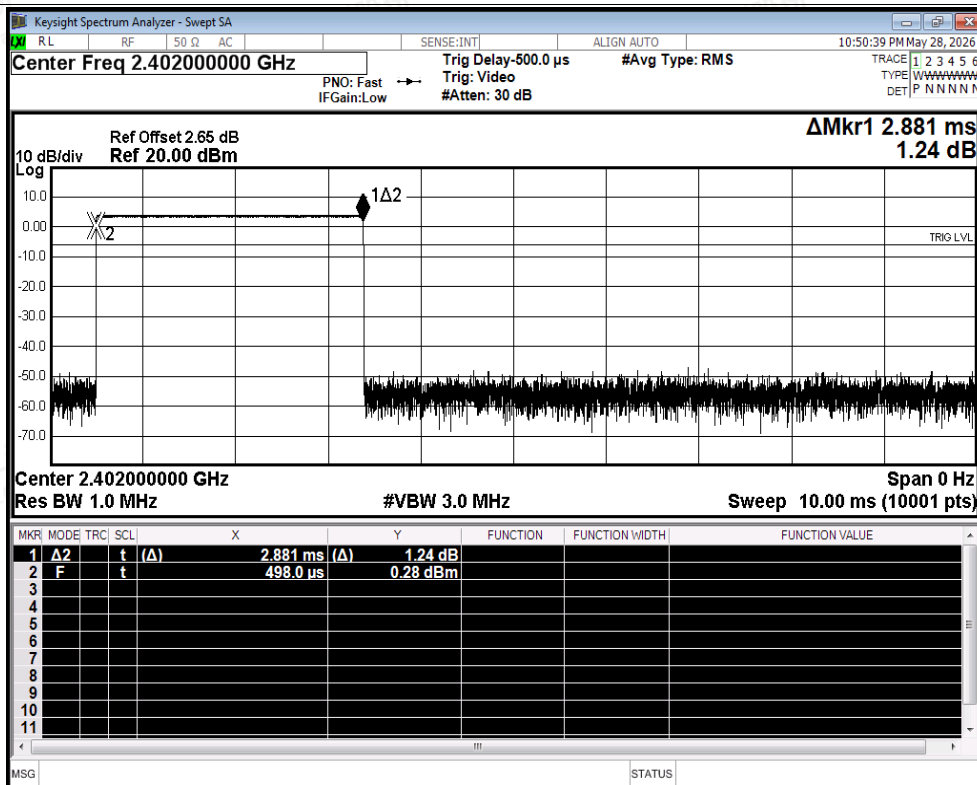


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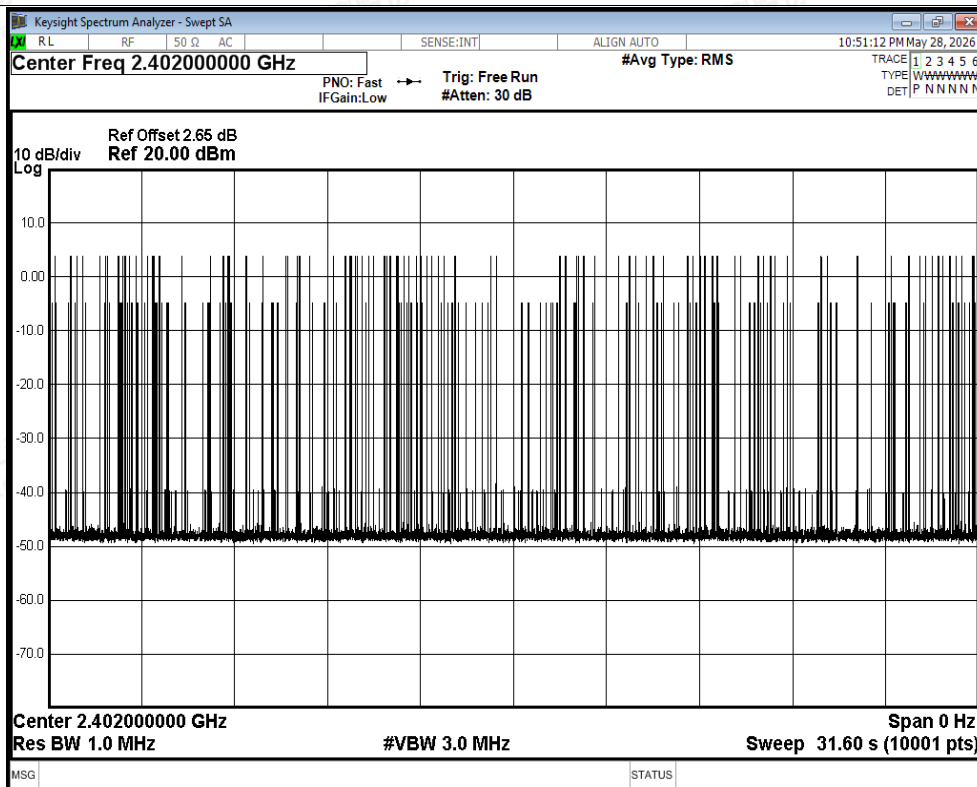
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Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

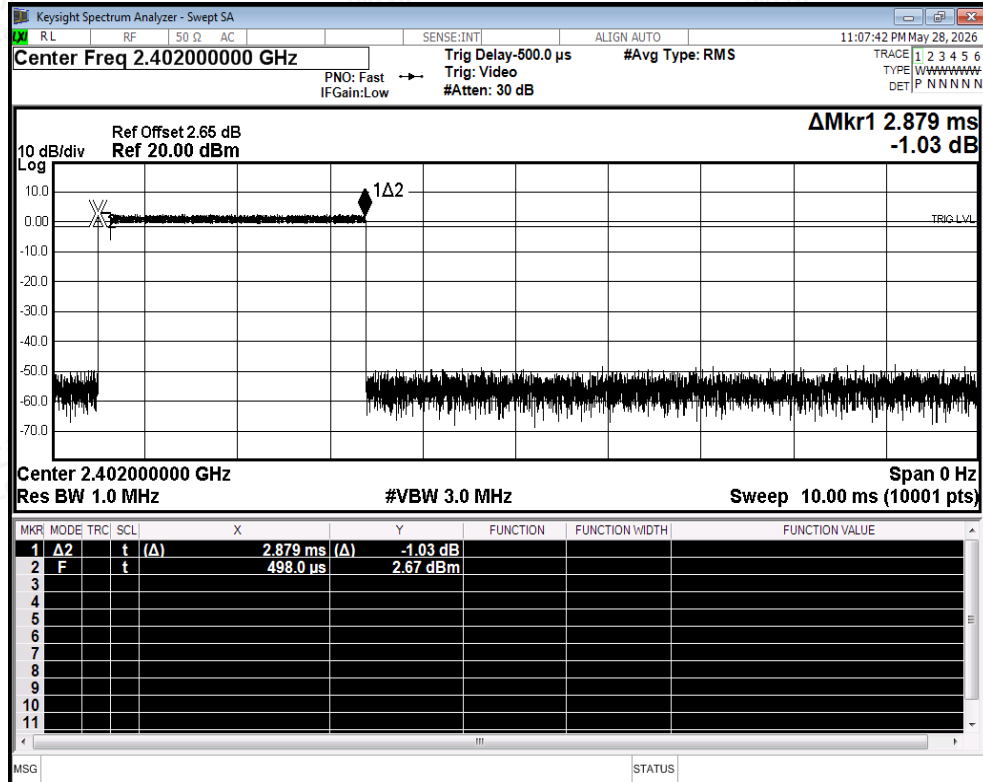


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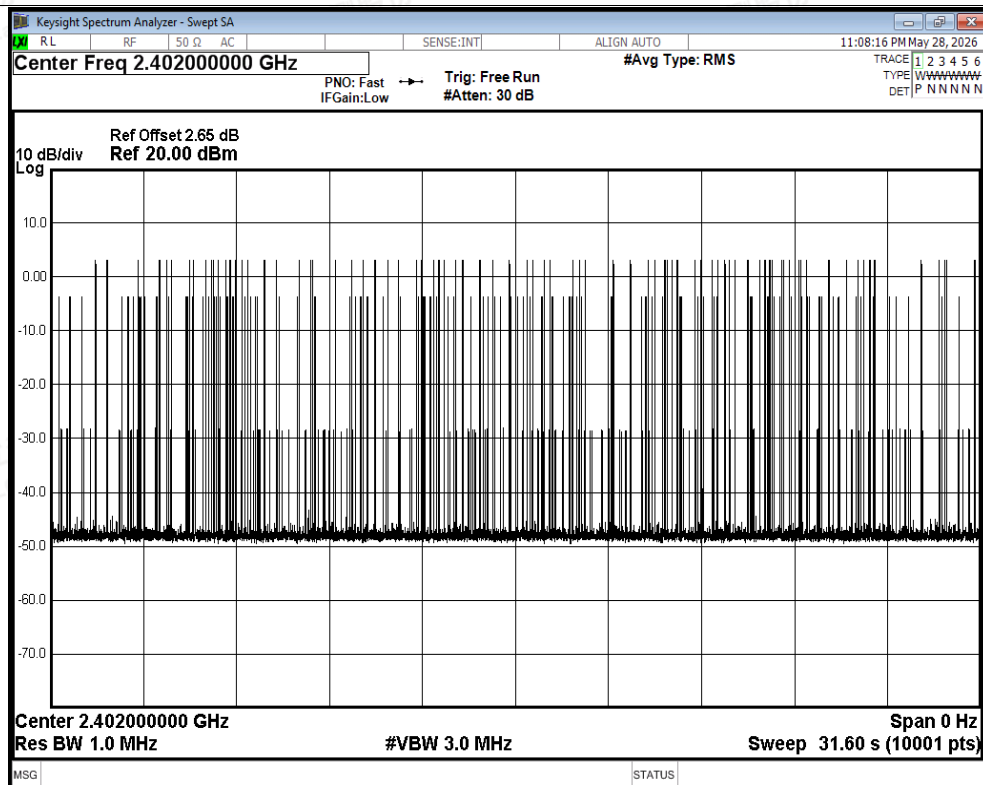
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

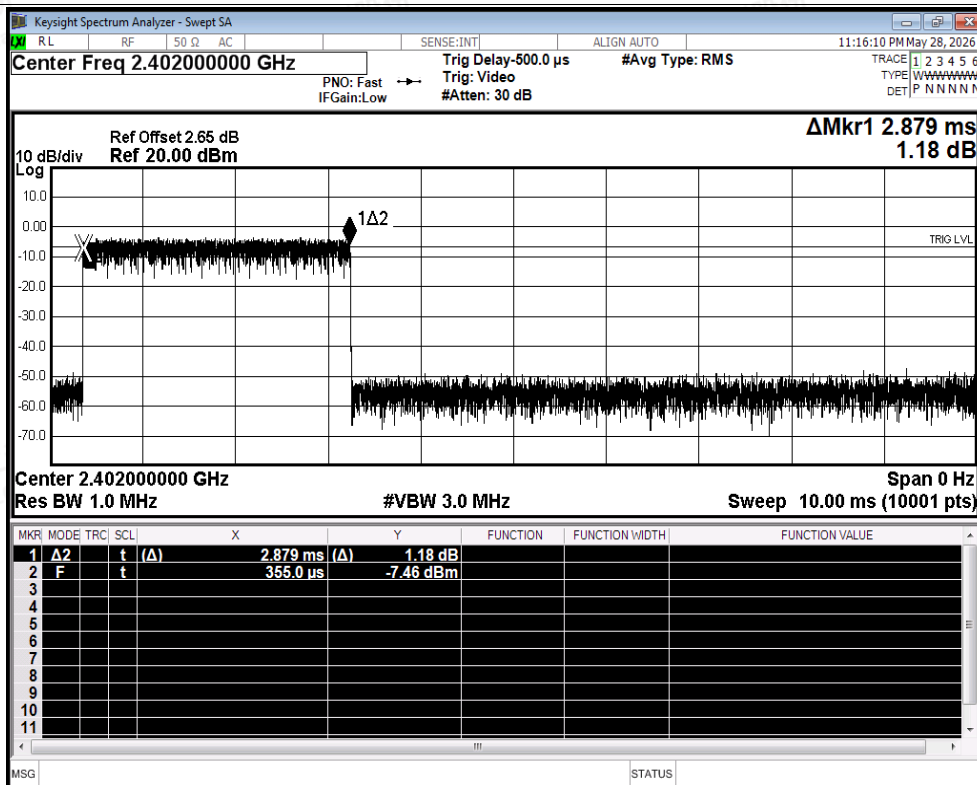


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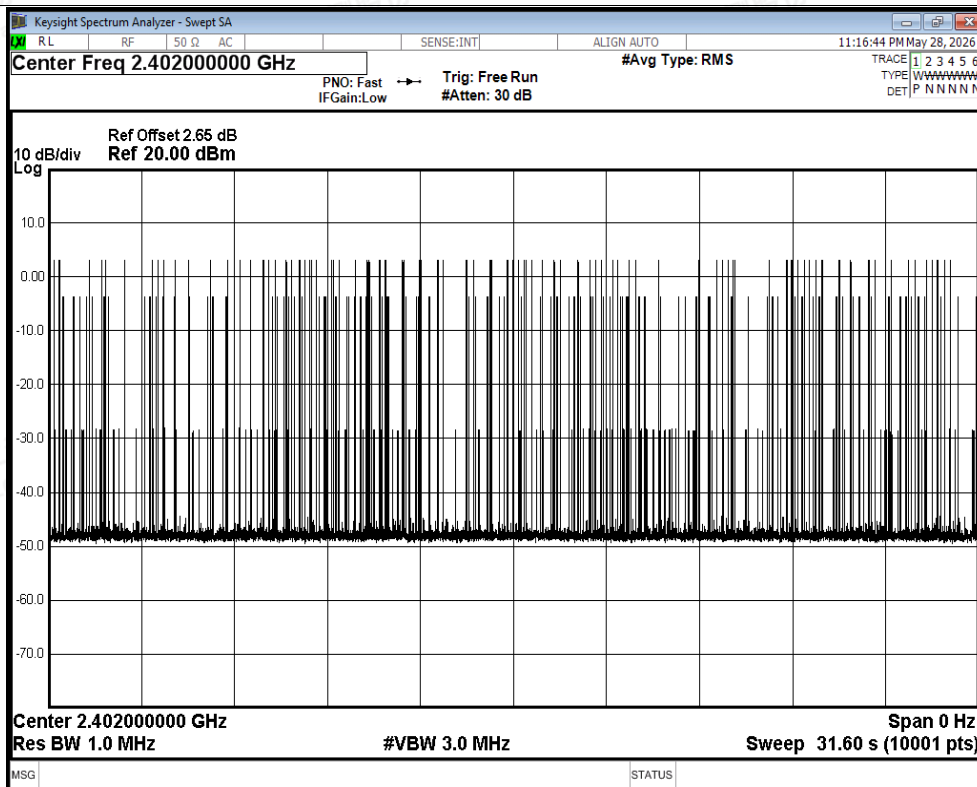
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

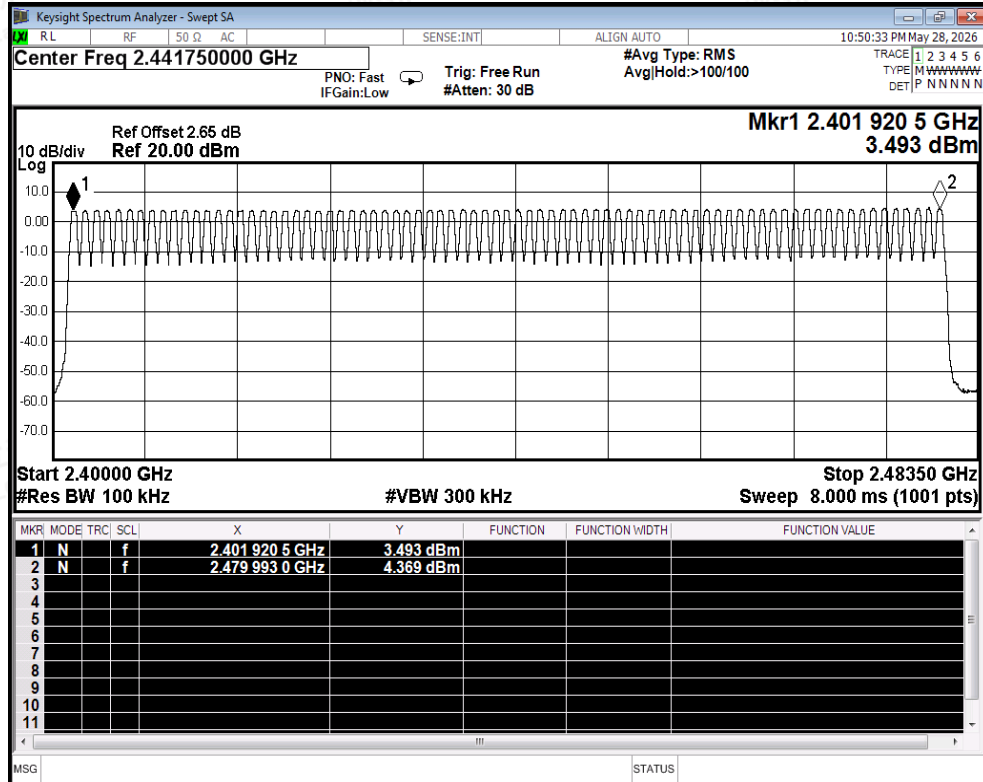


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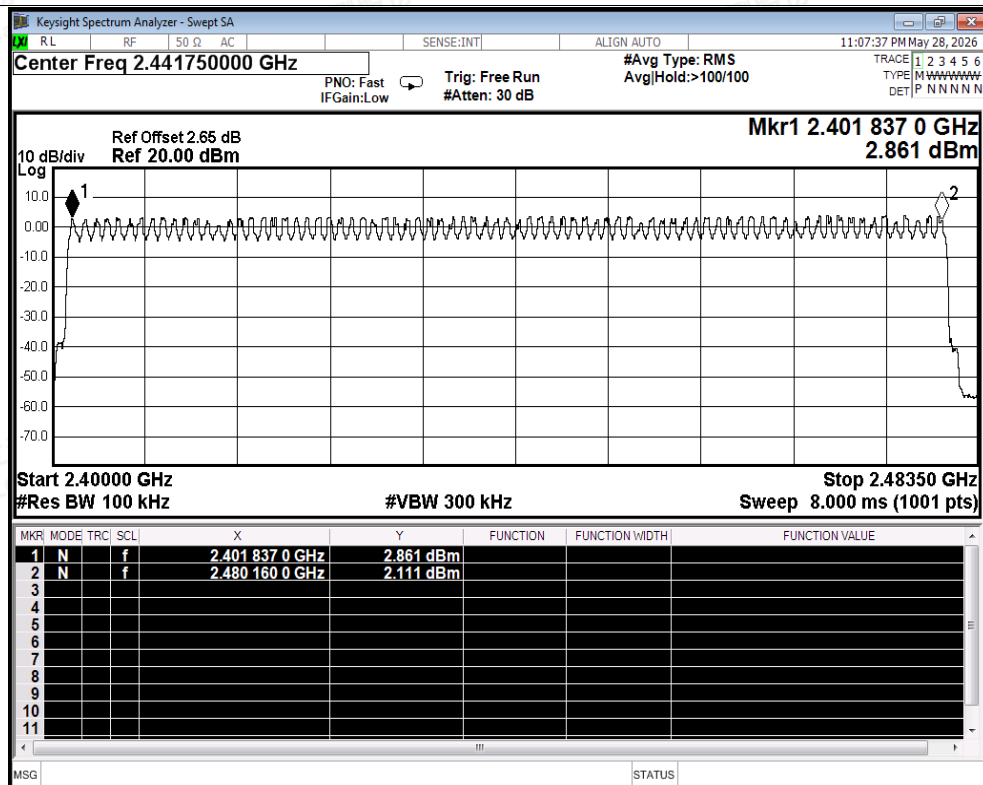
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Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

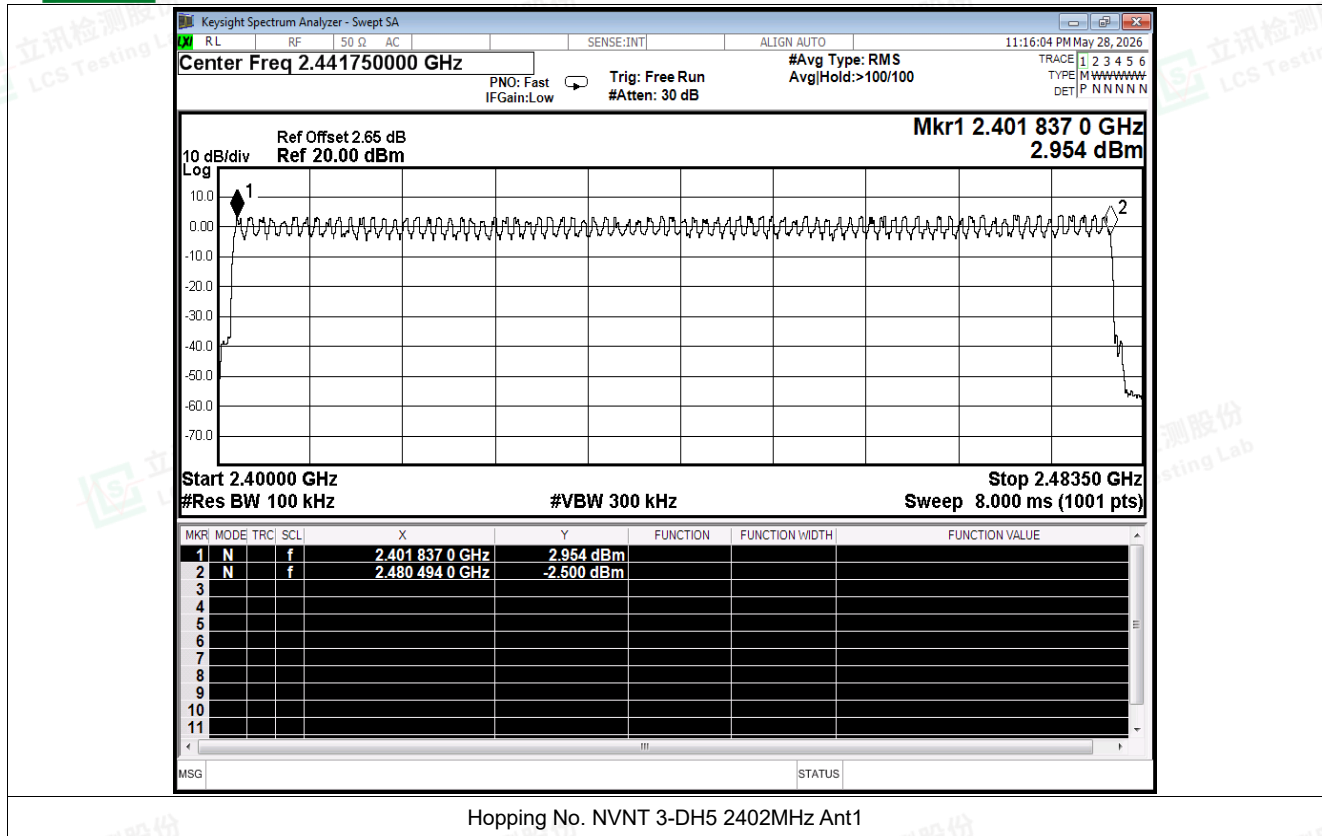


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-59.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.14	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.16	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.06	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-57.61	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.79	-20	Pass

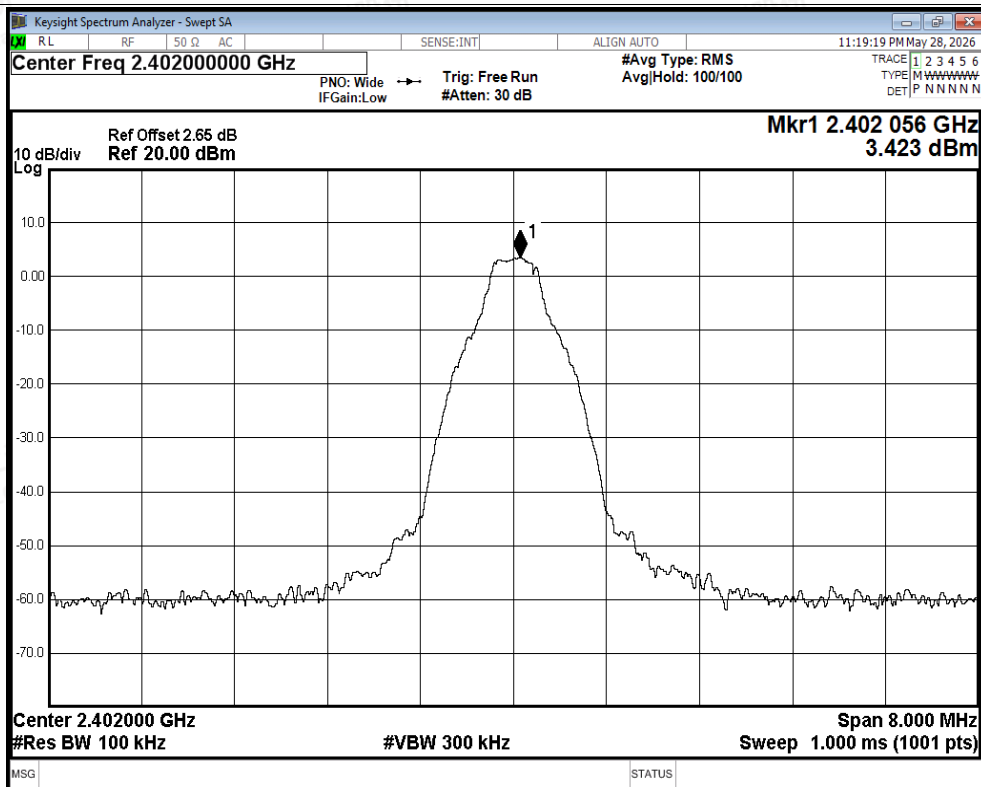


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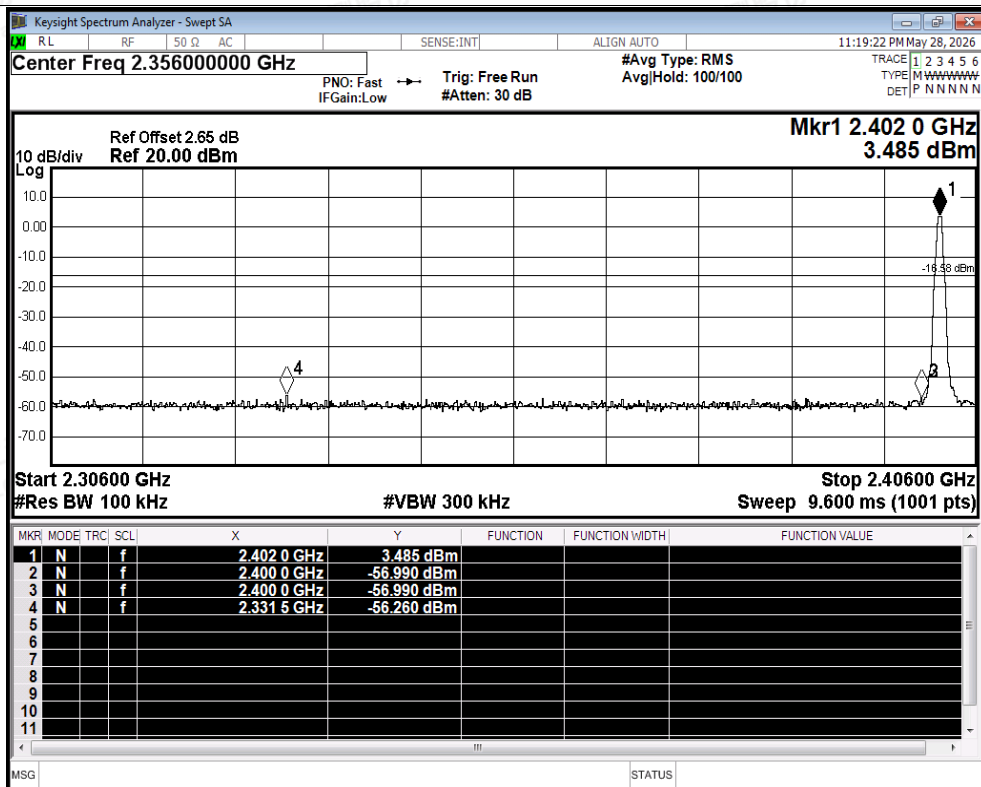
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Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



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

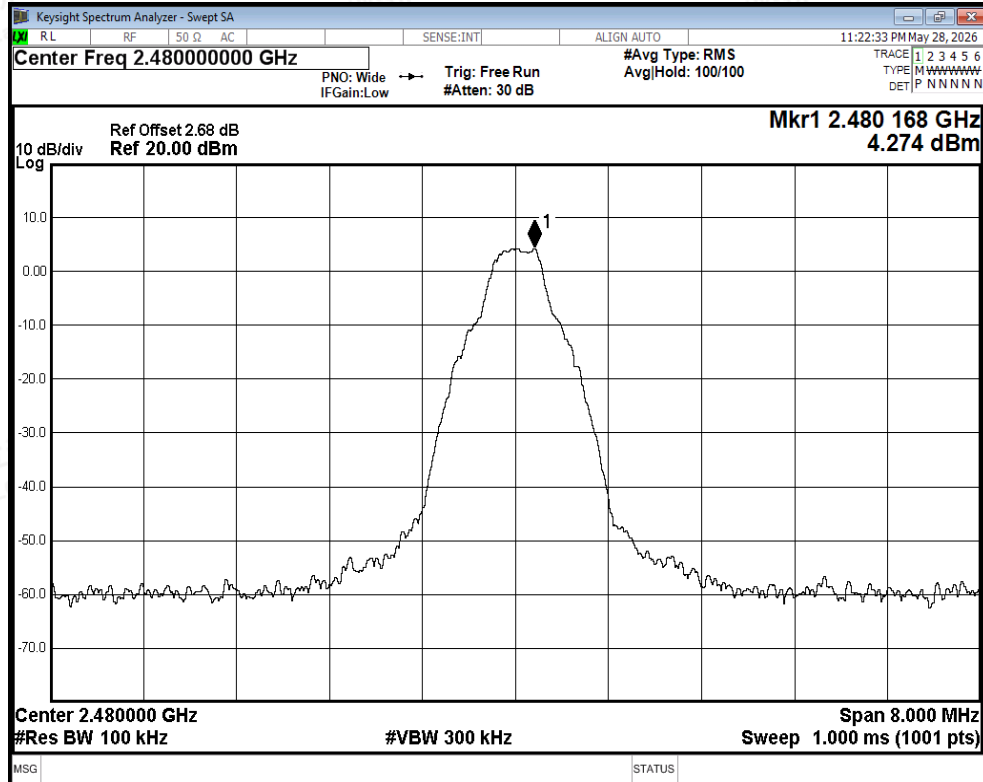


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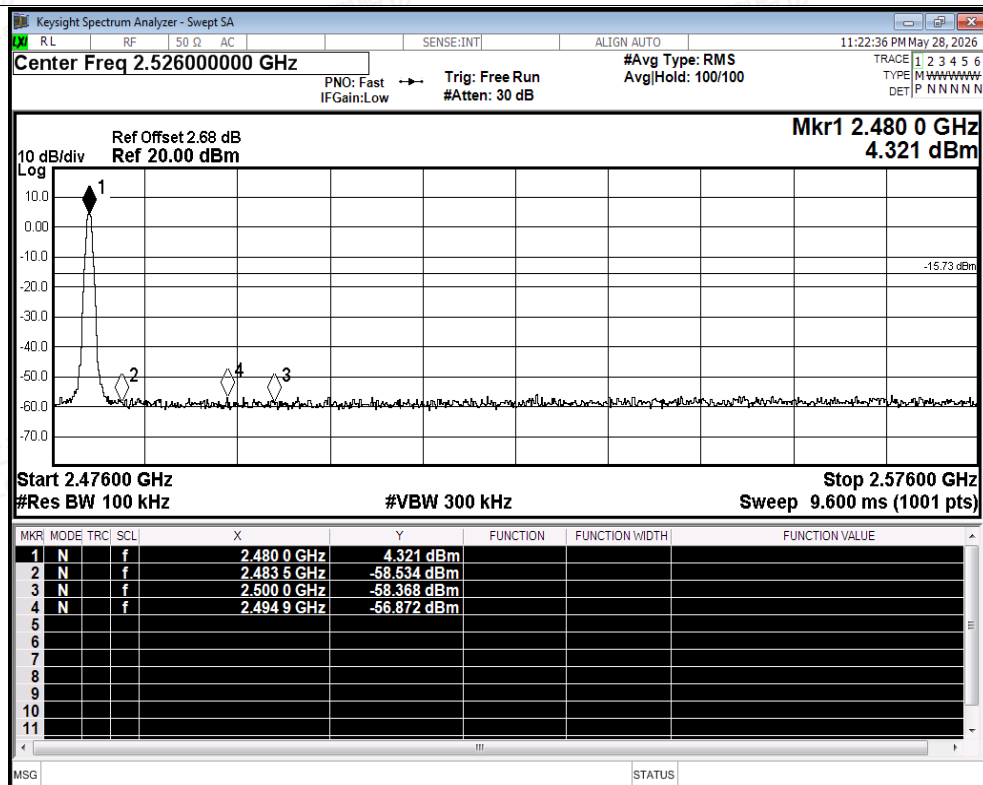
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

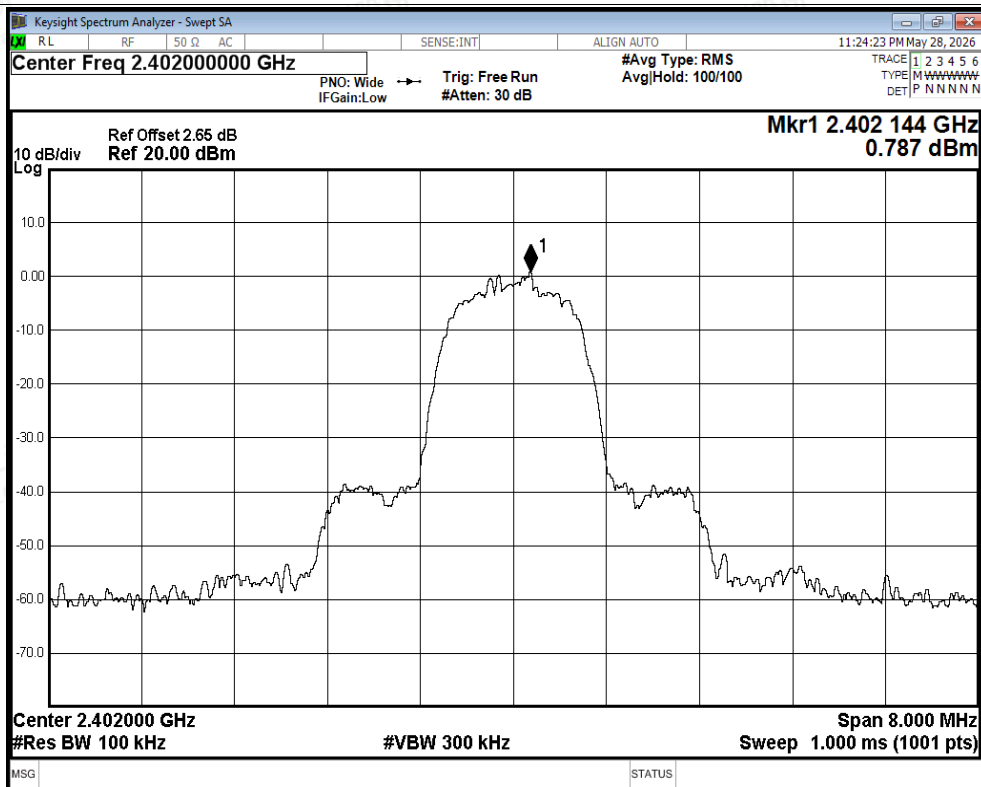


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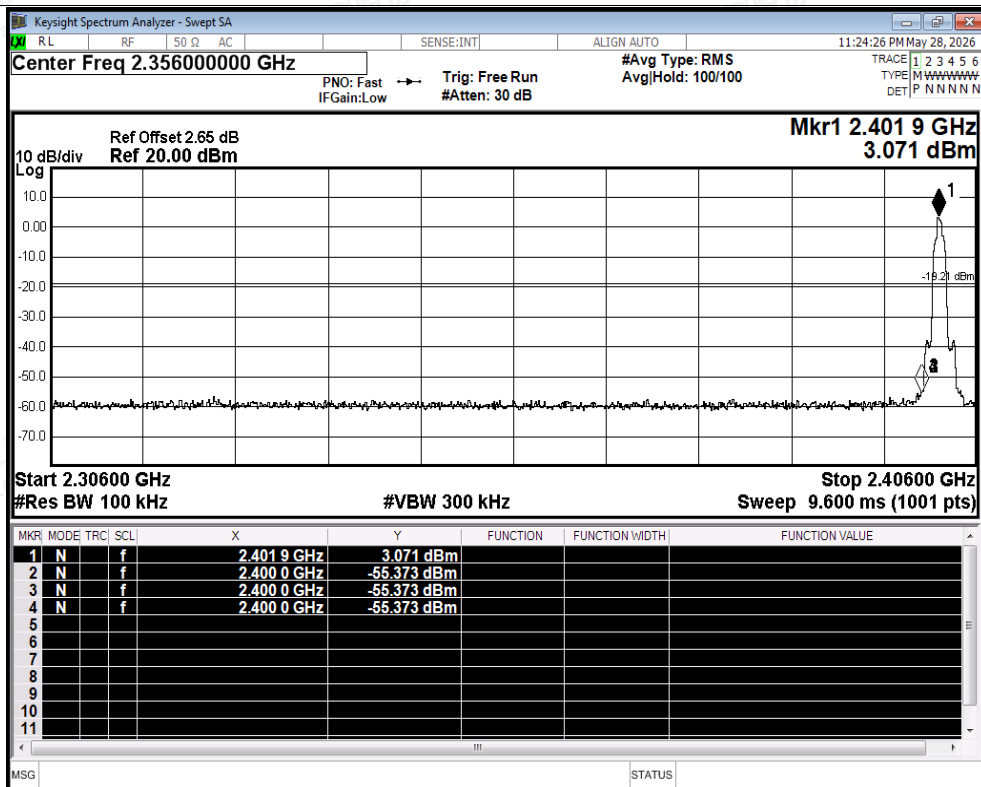
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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

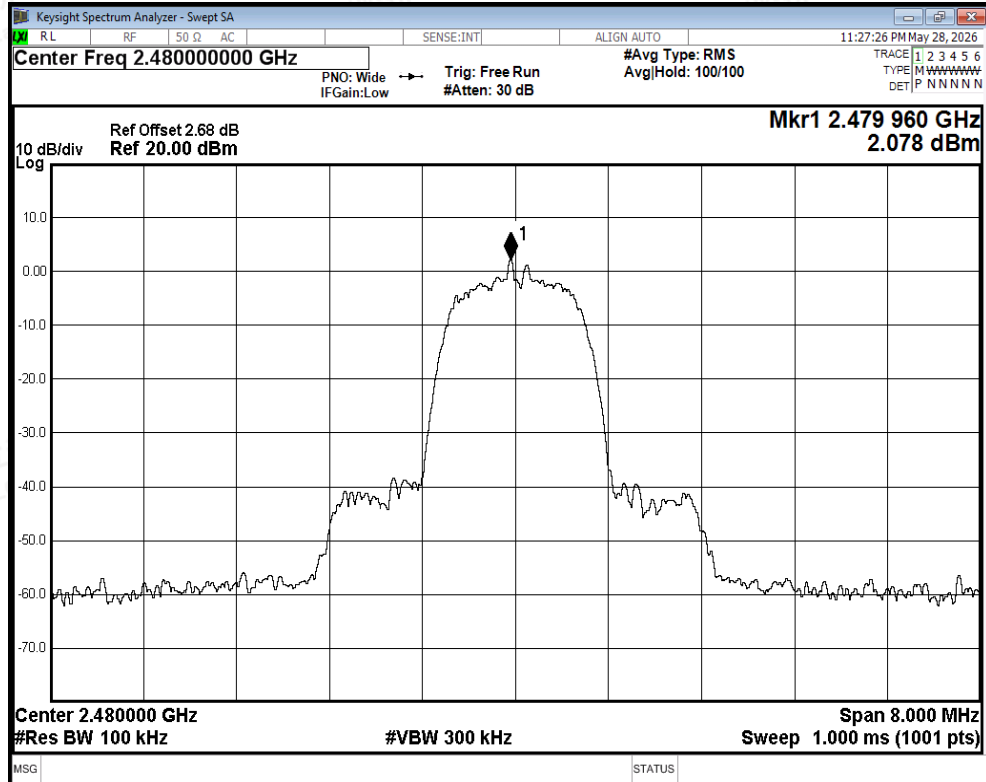


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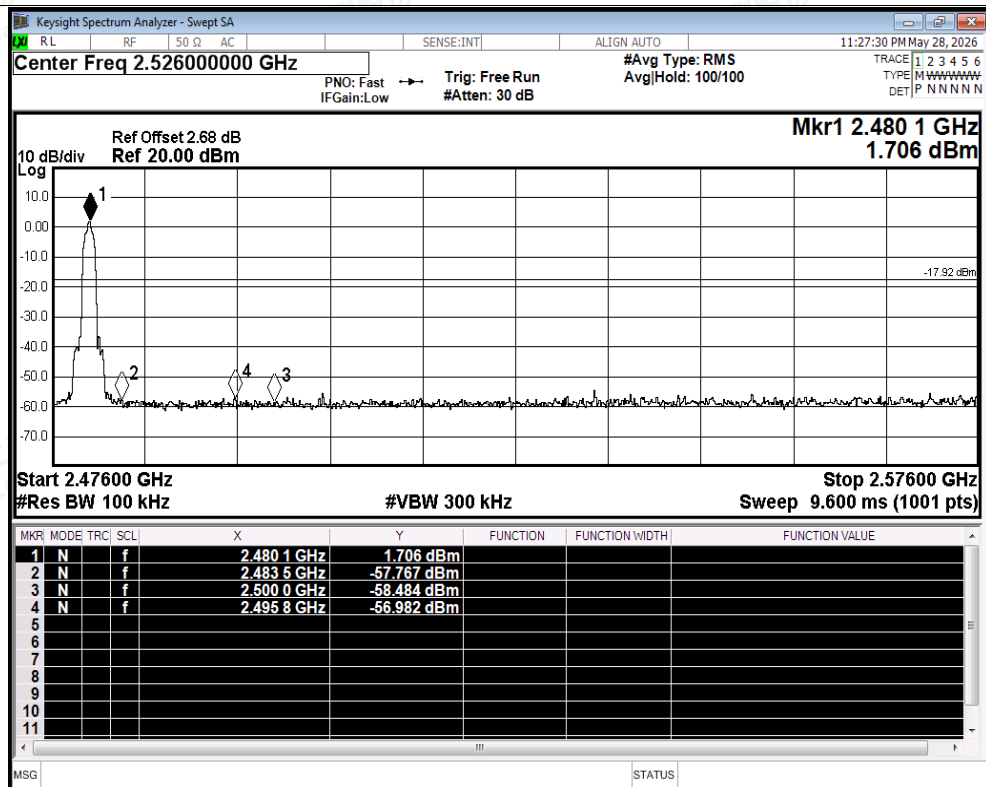
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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

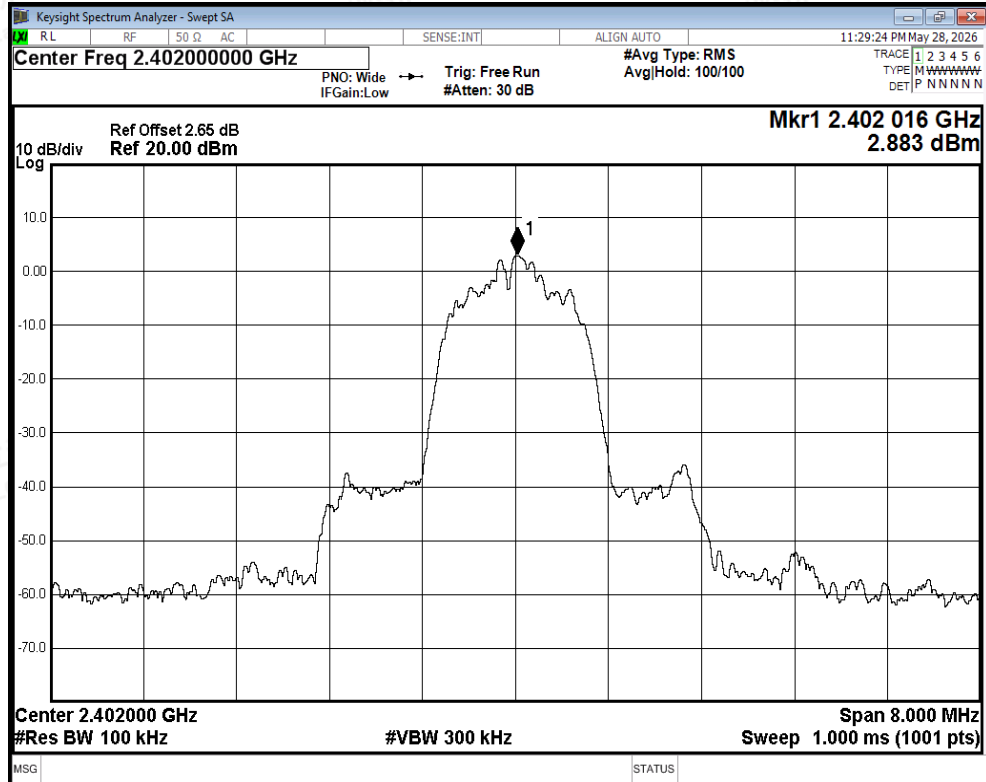


Shenzhen LCS Compliance Testing Laboratory Ltd.

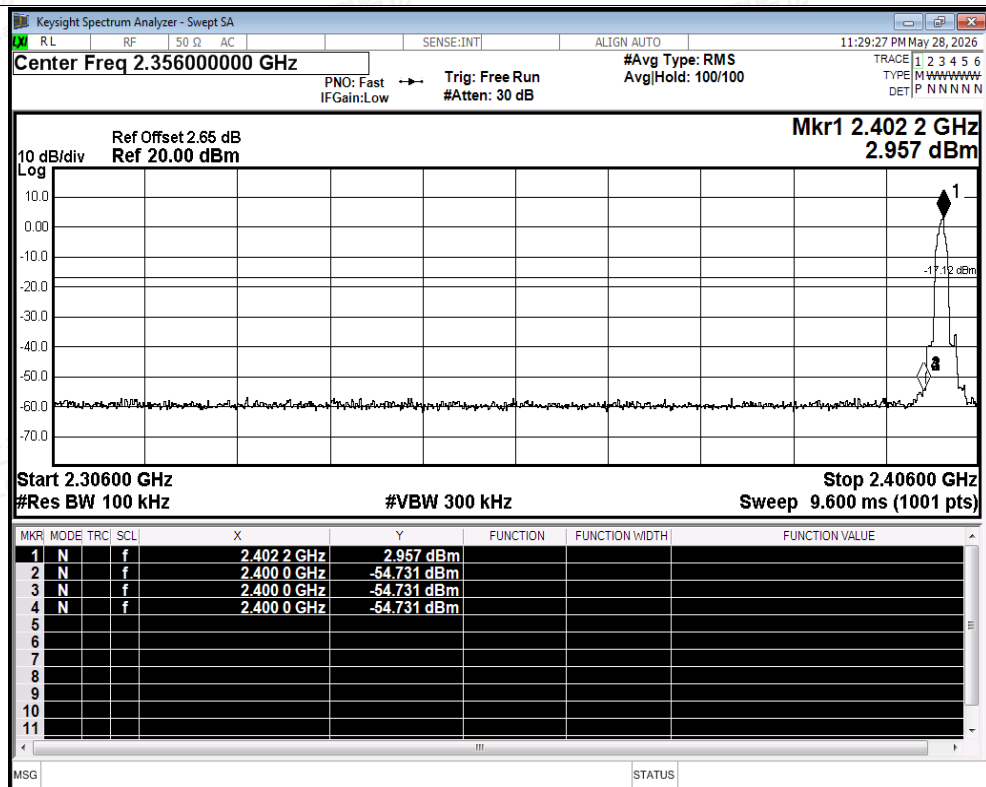
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

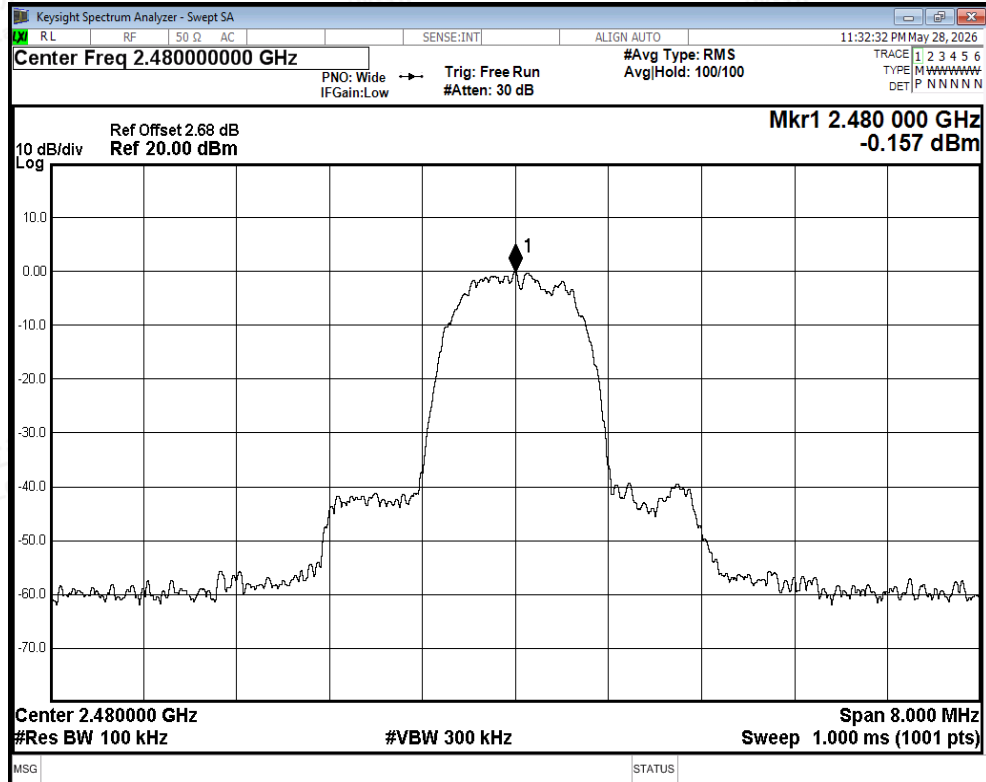


Shenzhen LCS Compliance Testing Laboratory Ltd.

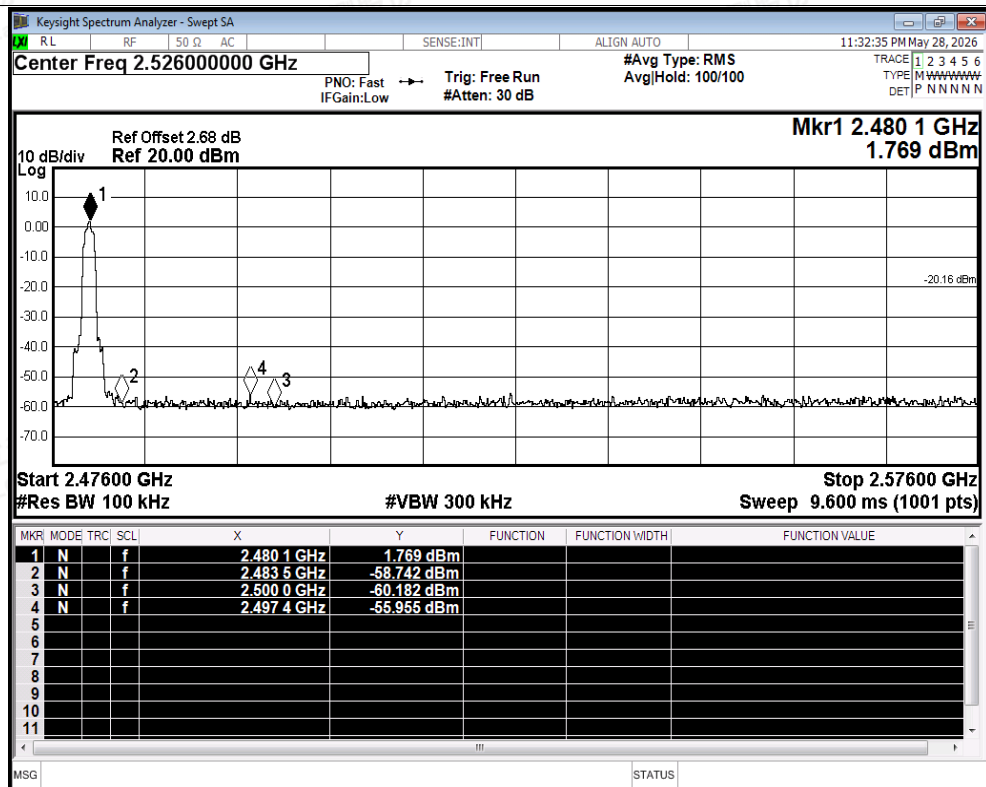
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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-58.01	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.64	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.34	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.6	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.76	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.22	-20	Pass

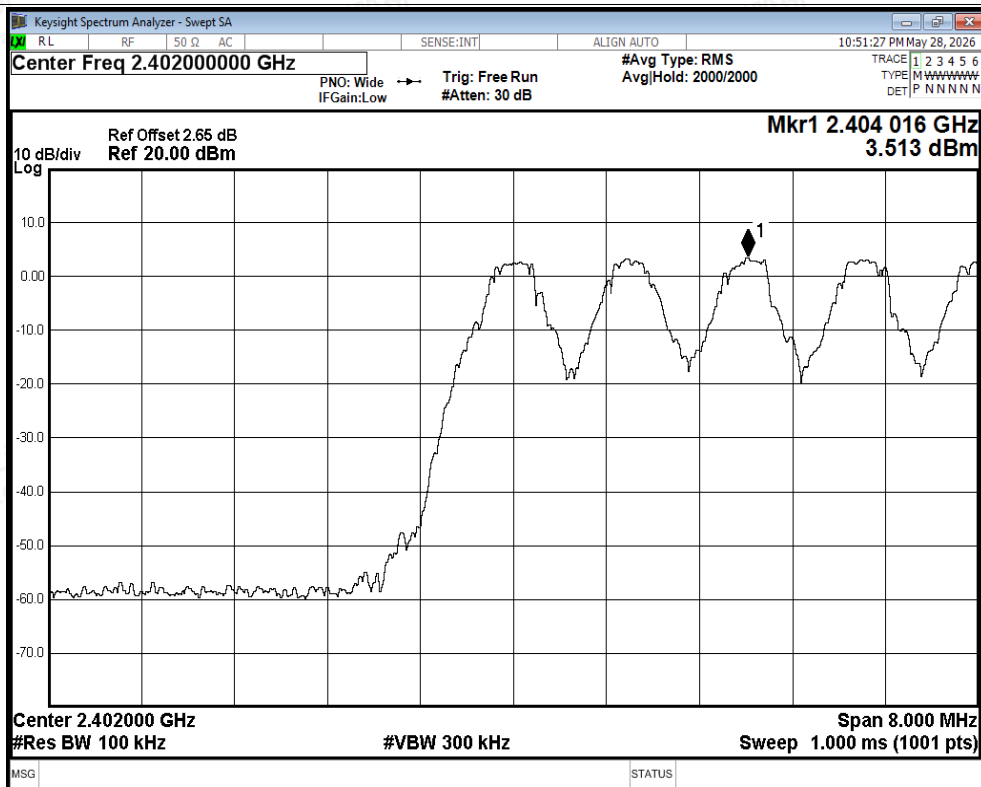


Shenzhen LCS Compliance Testing Laboratory Ltd.

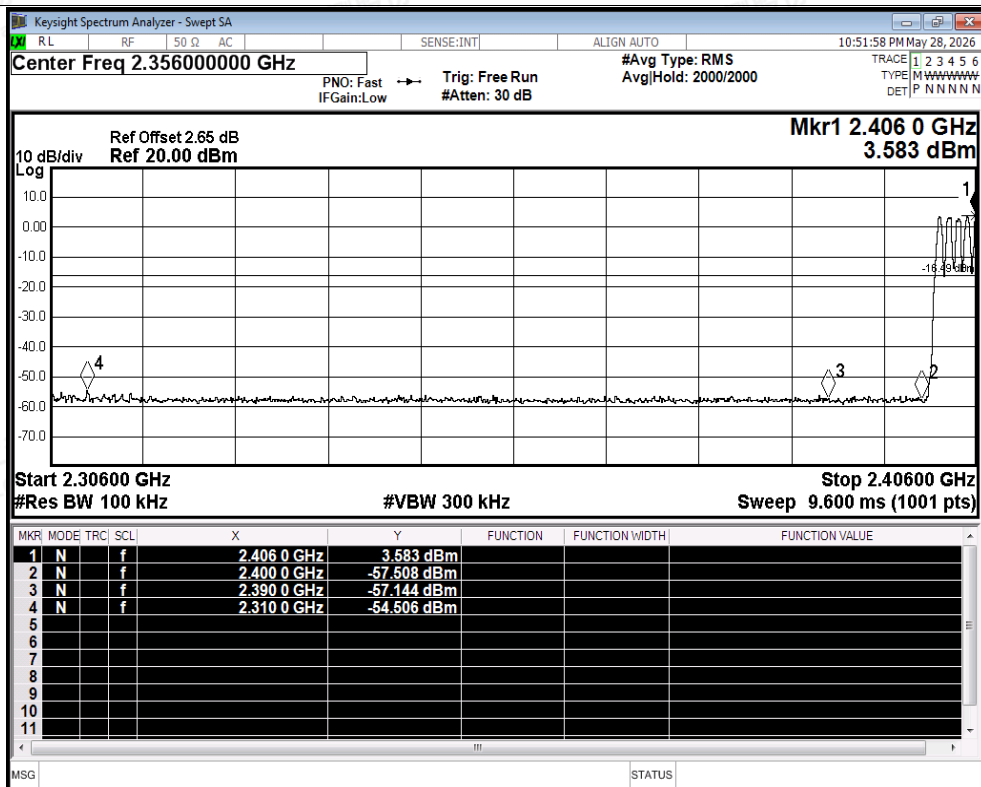
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Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



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

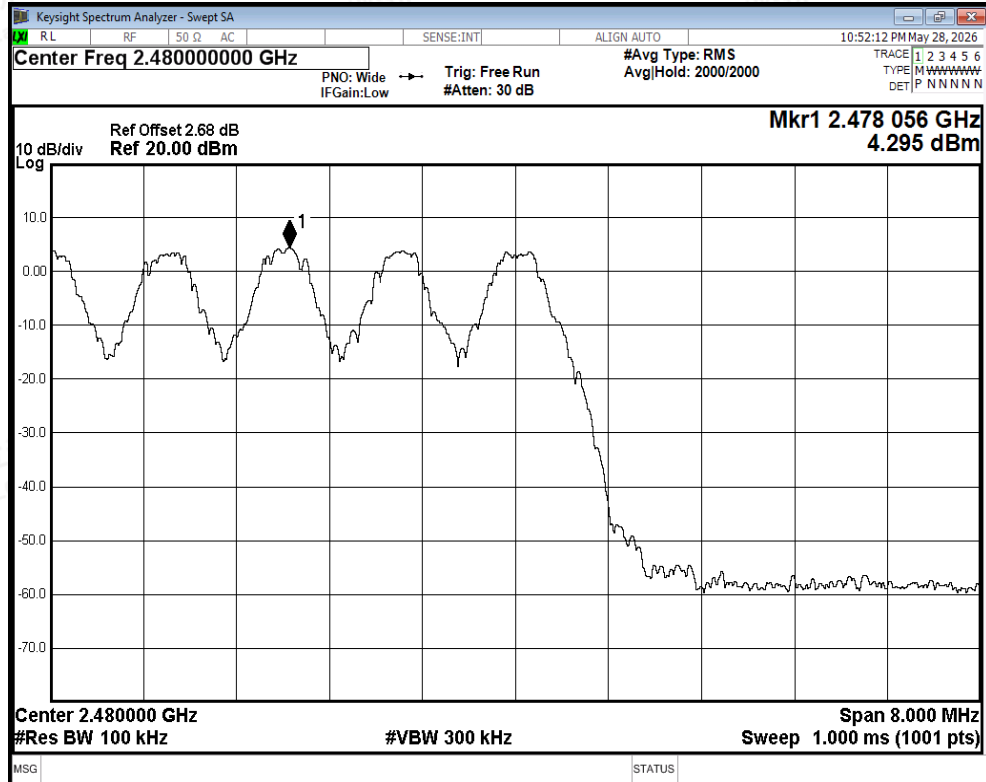


Shenzhen LCS Compliance Testing Laboratory Ltd.

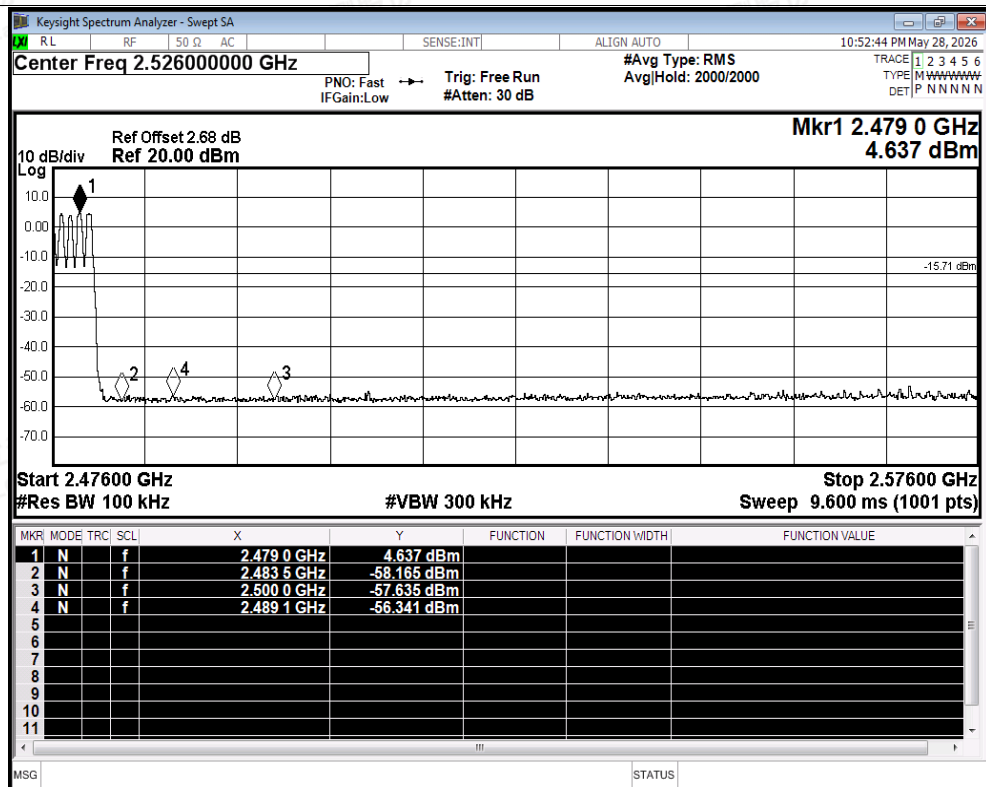
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

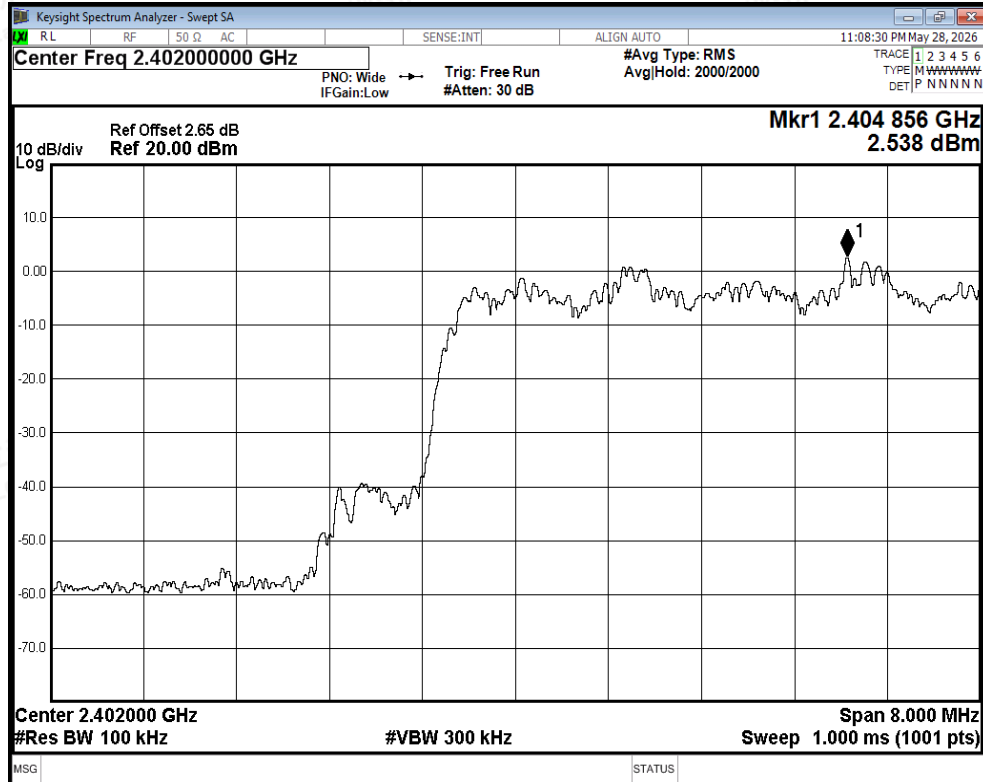


Shenzhen LCS Compliance Testing Laboratory Ltd.

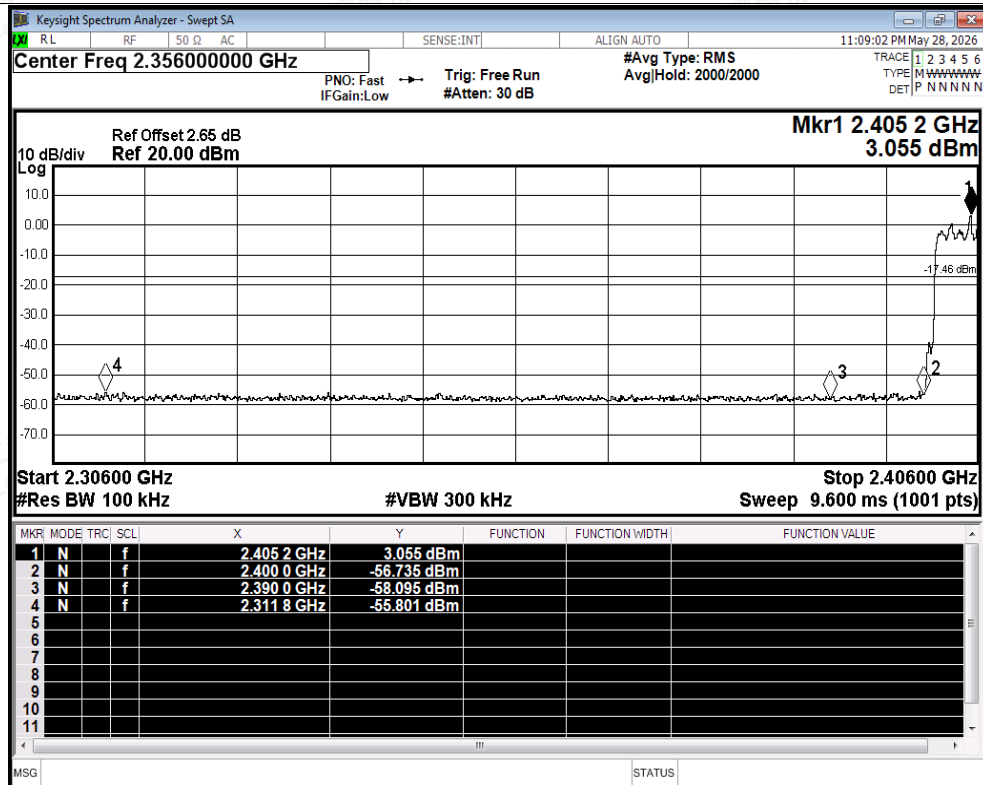
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

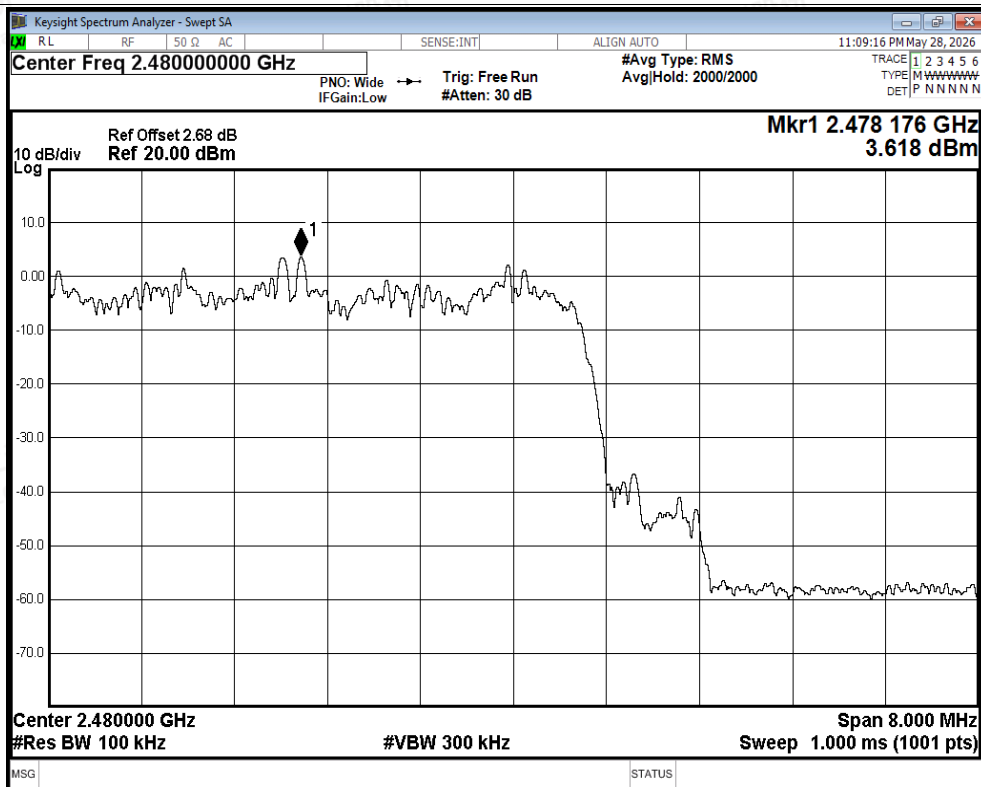


Shenzhen LCS Compliance Testing Laboratory Ltd.

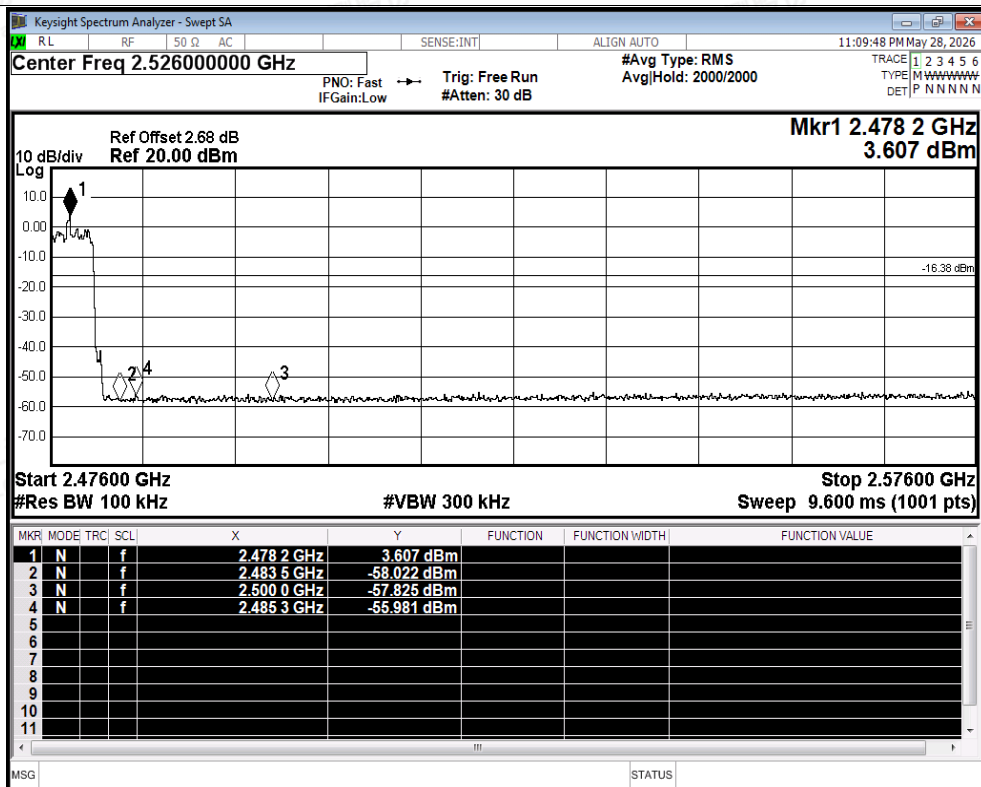
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

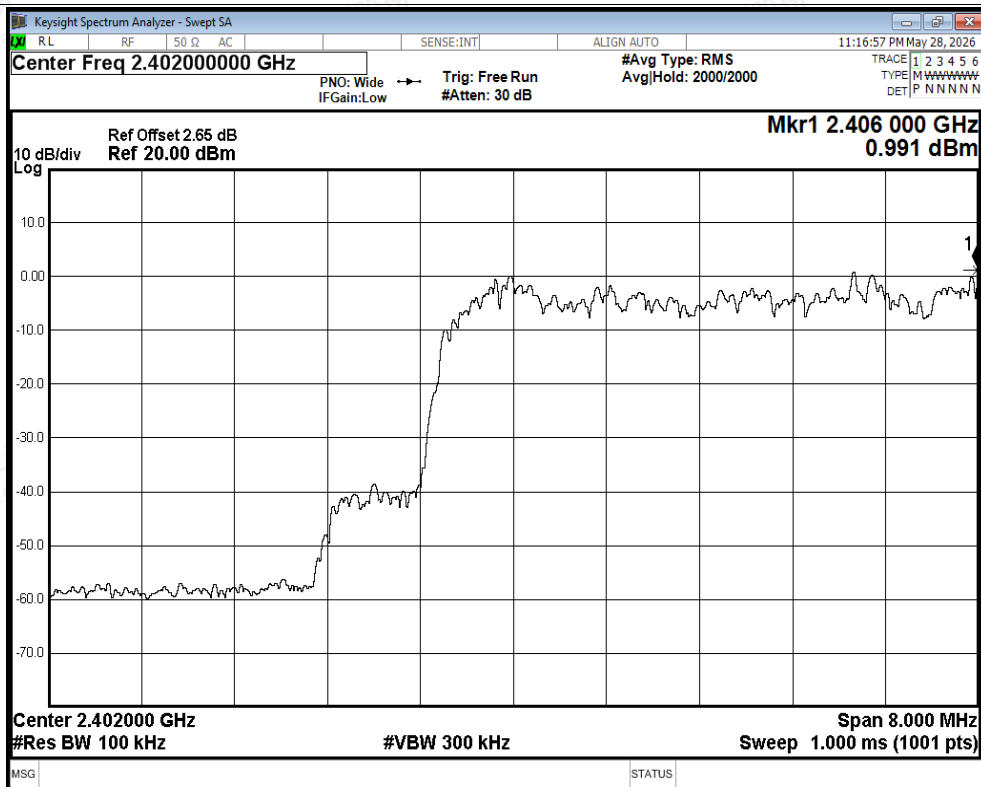


Shenzhen LCS Compliance Testing Laboratory Ltd.

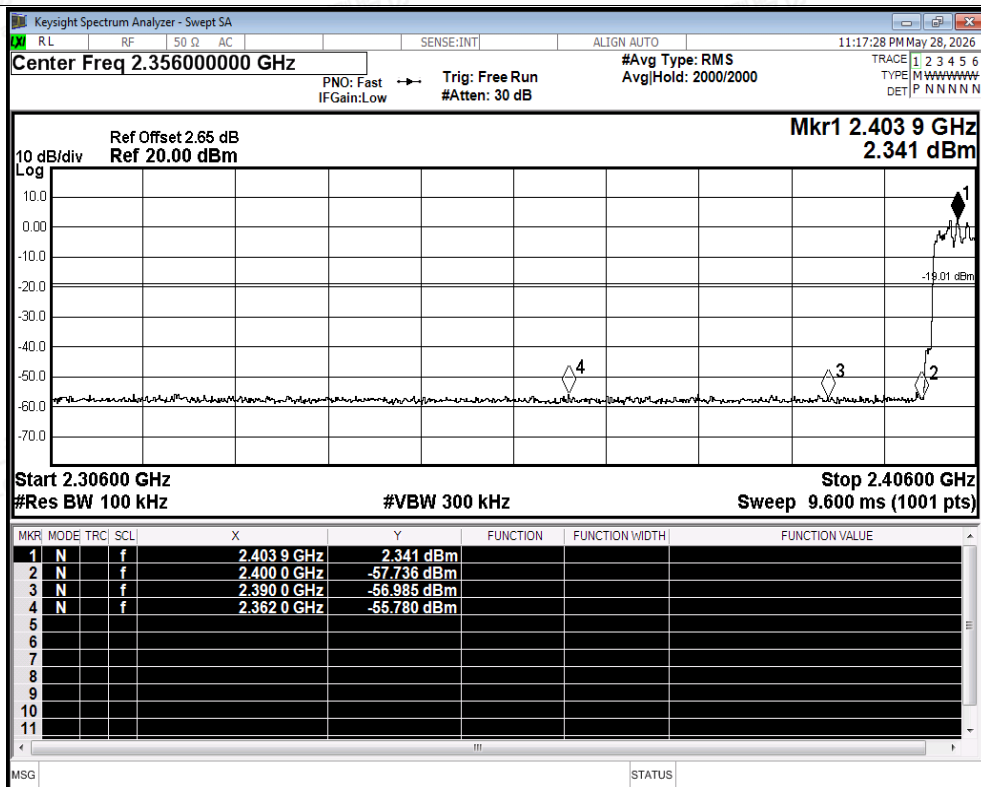
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

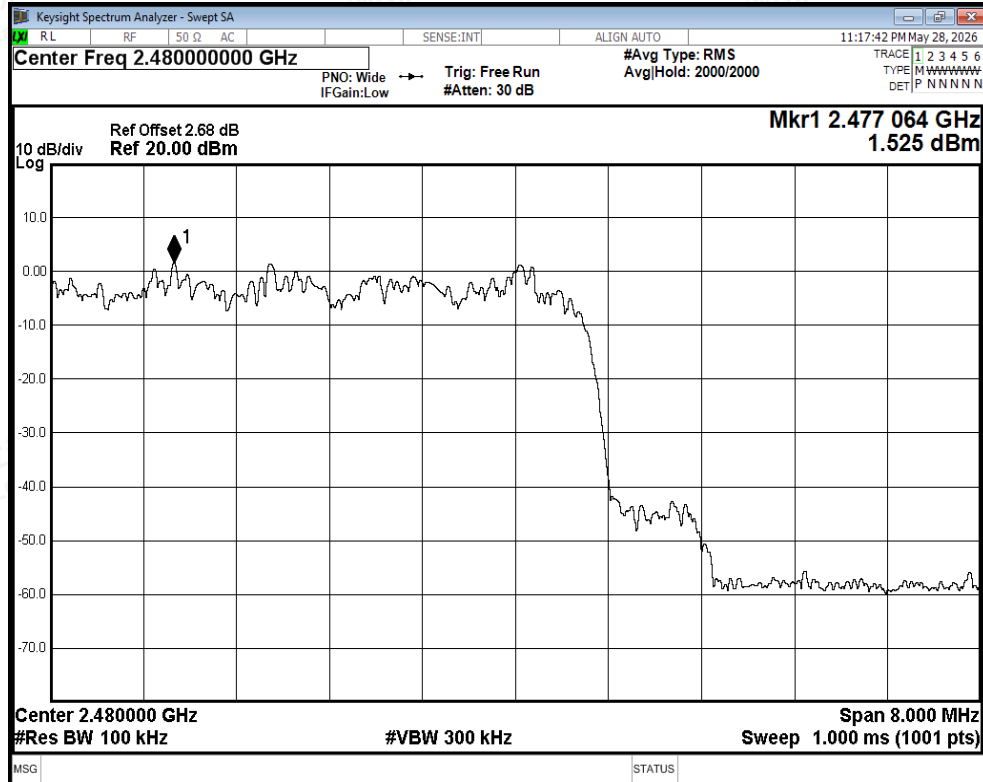


Shenzhen LCS Compliance Testing Laboratory Ltd.

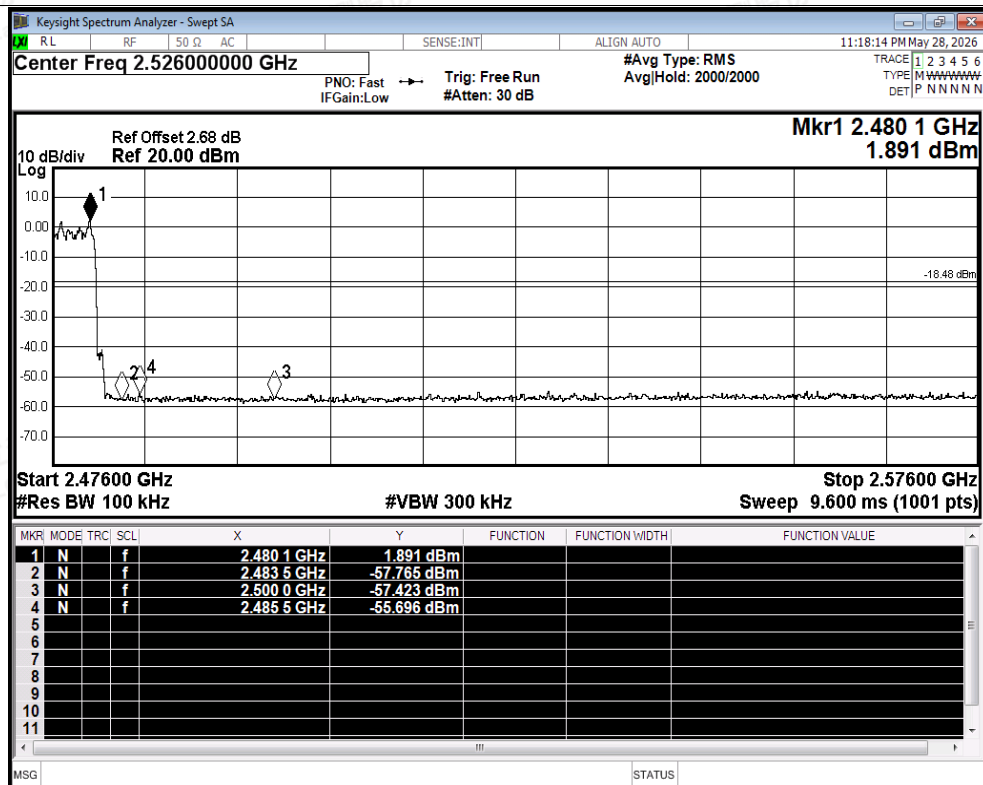
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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



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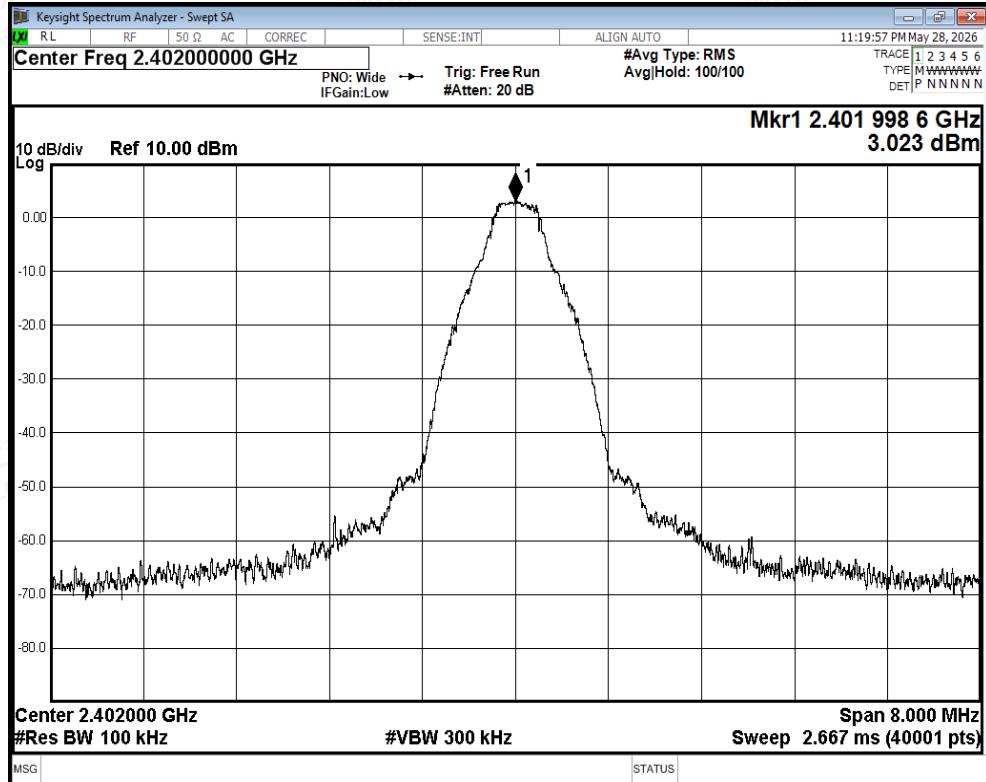
Scan code to check authenticity



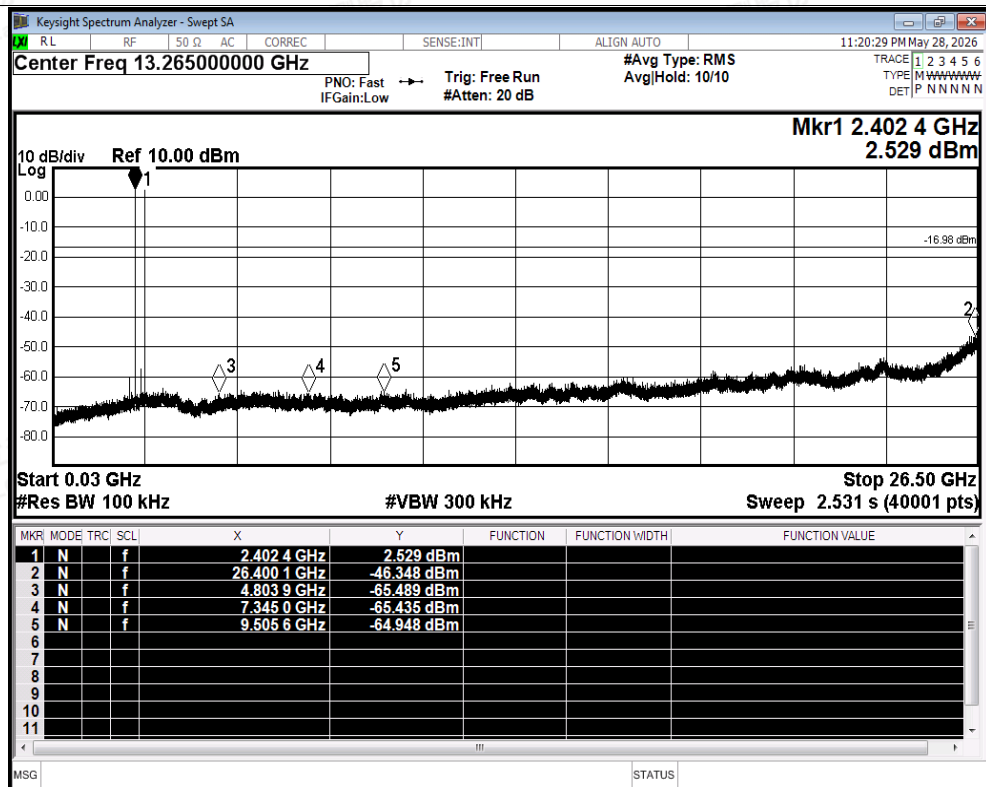
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-49.36	-20	Pass
NVNT	1-DH5	2441	Ant1	-49.42	-20	Pass
NVNT	1-DH5	2480	Ant1	-50.37	-20	Pass
NVNT	2-DH5	2402	Ant1	-49.51	-20	Pass
NVNT	2-DH5	2441	Ant1	-48.18	-20	Pass
NVNT	2-DH5	2480	Ant1	-48.91	-20	Pass
NVNT	3-DH5	2402	Ant1	-48.33	-20	Pass
NVNT	3-DH5	2441	Ant1	-48.77	-20	Pass
NVNT	3-DH5	2480	Ant1	-49.8	-20	Pass





Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

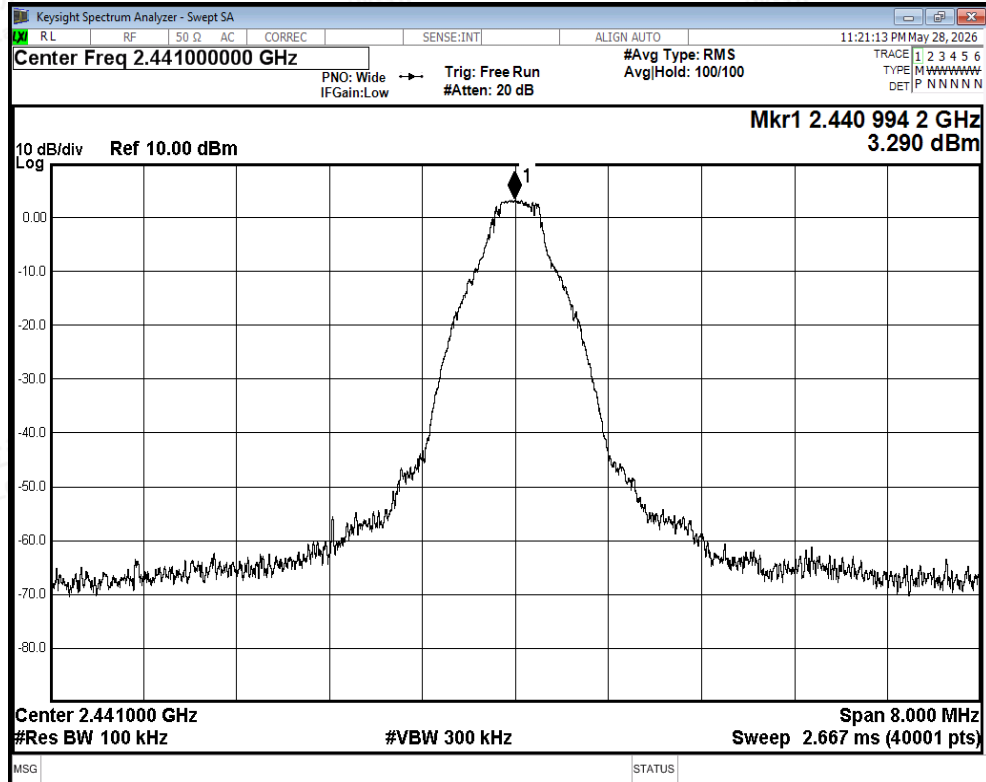


Shenzhen LCS Compliance Testing Laboratory Ltd.

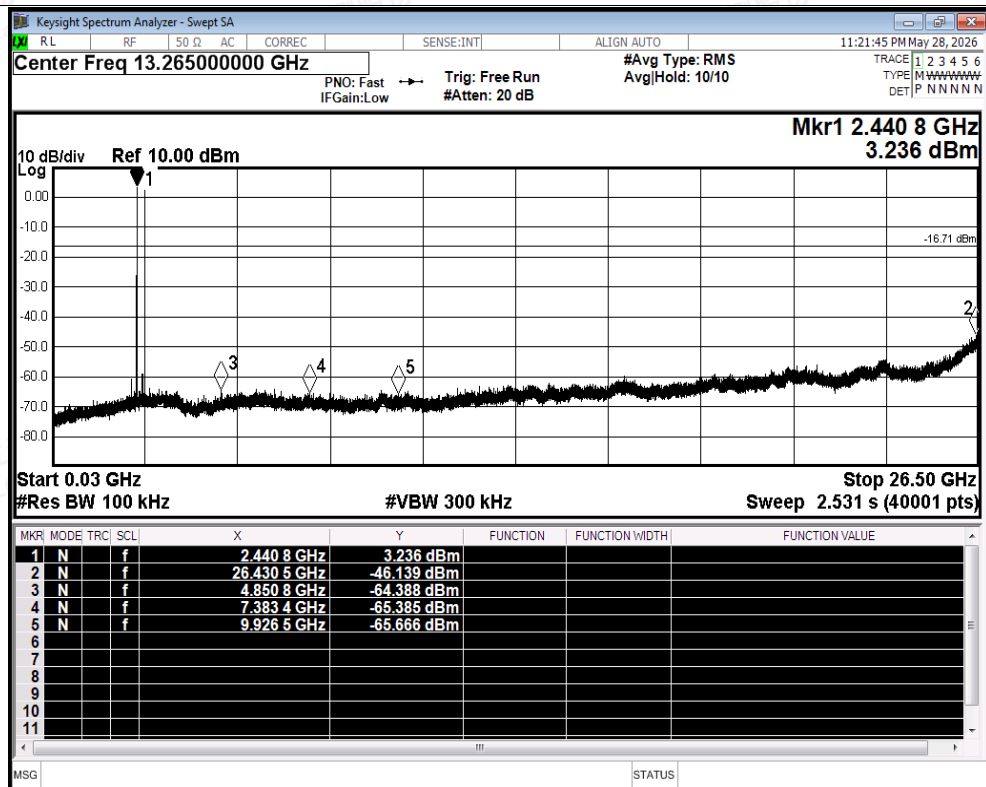
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

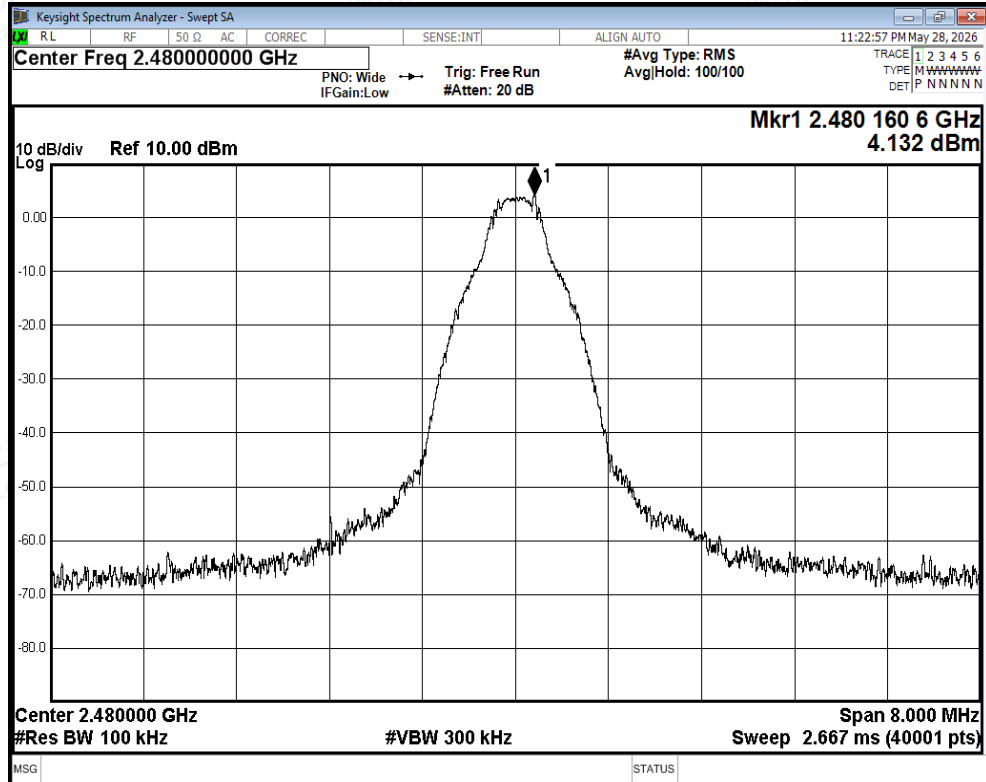


Shenzhen LCS Compliance Testing Laboratory Ltd.

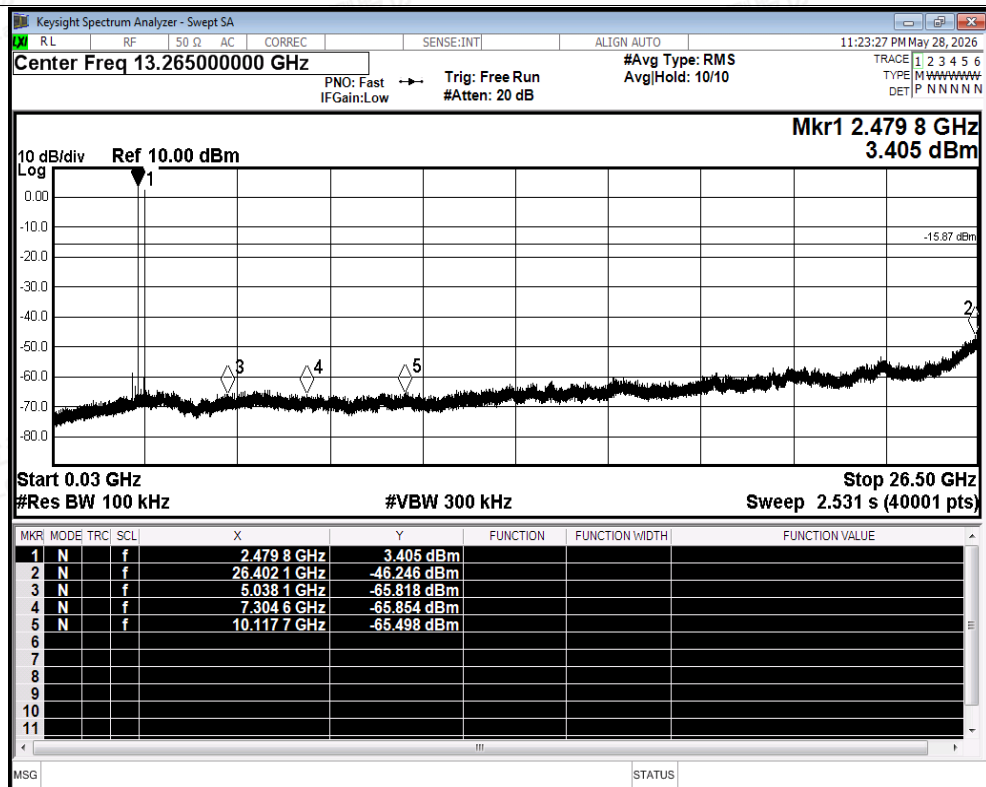
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

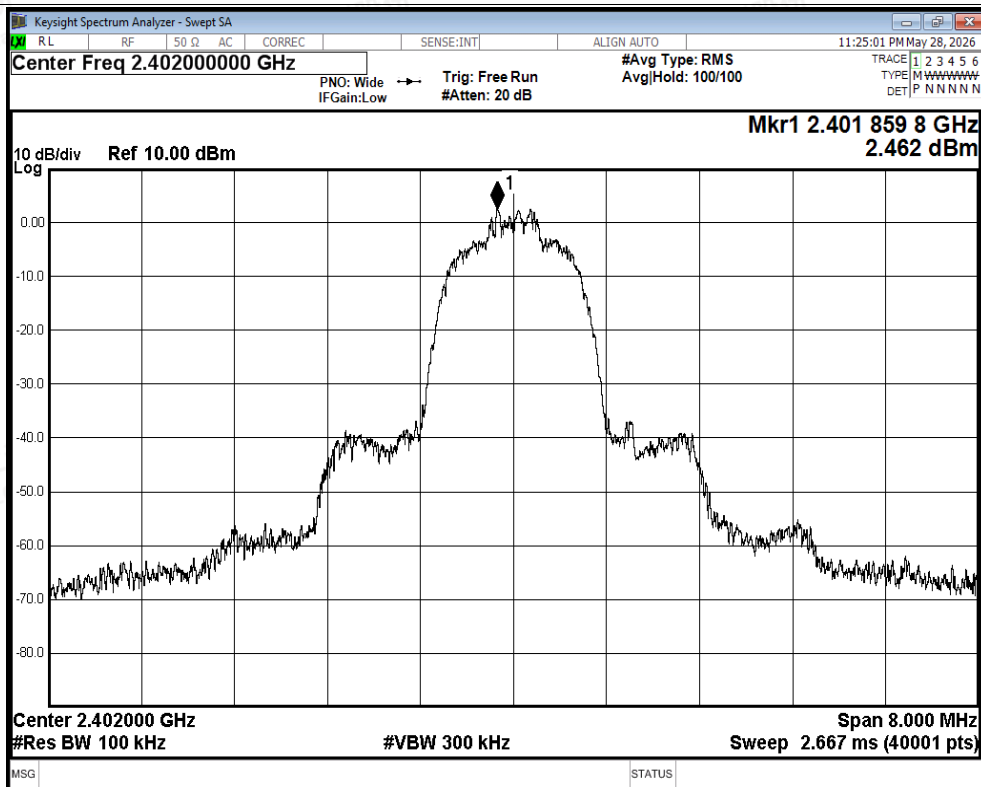


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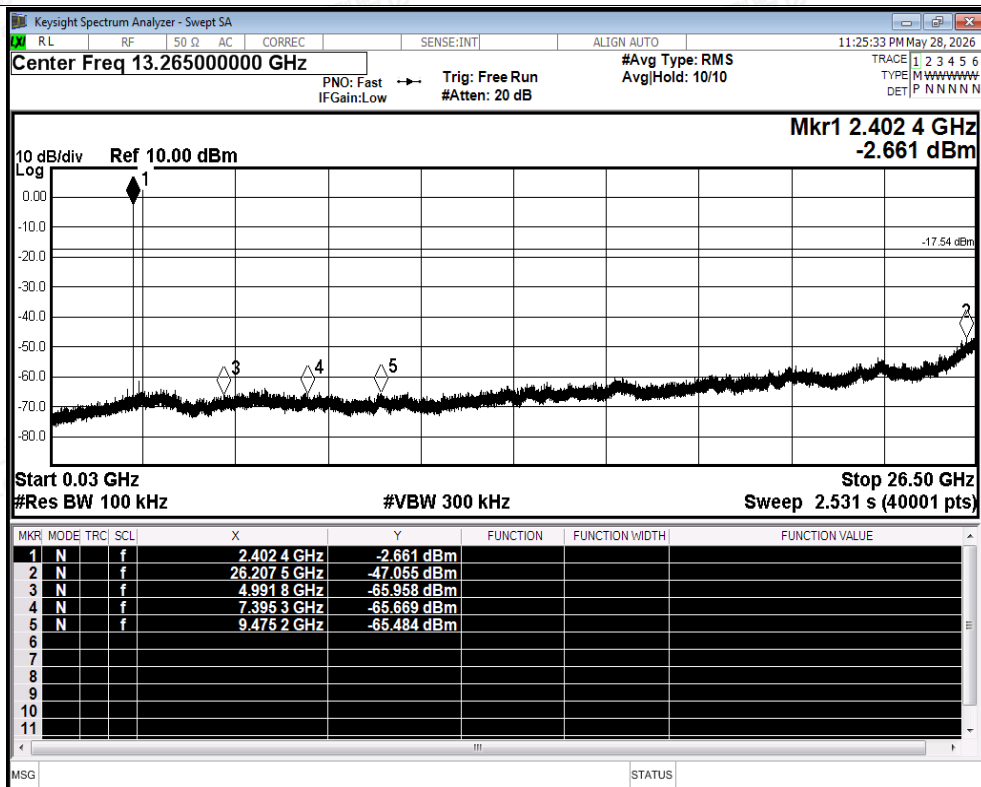
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

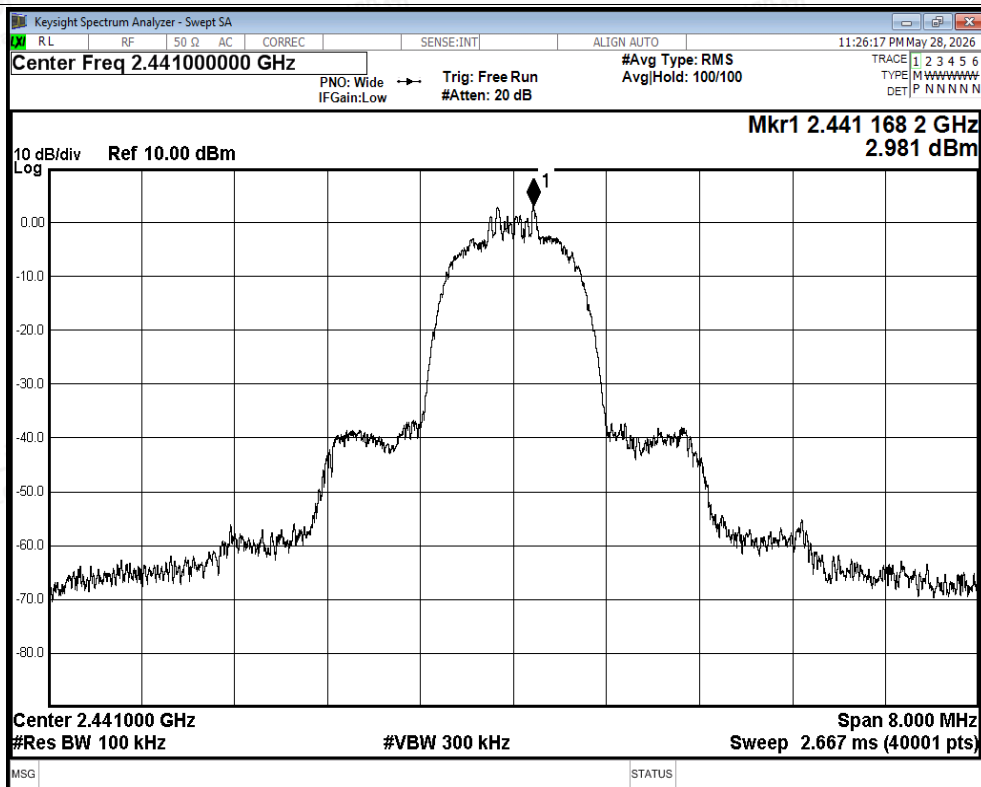


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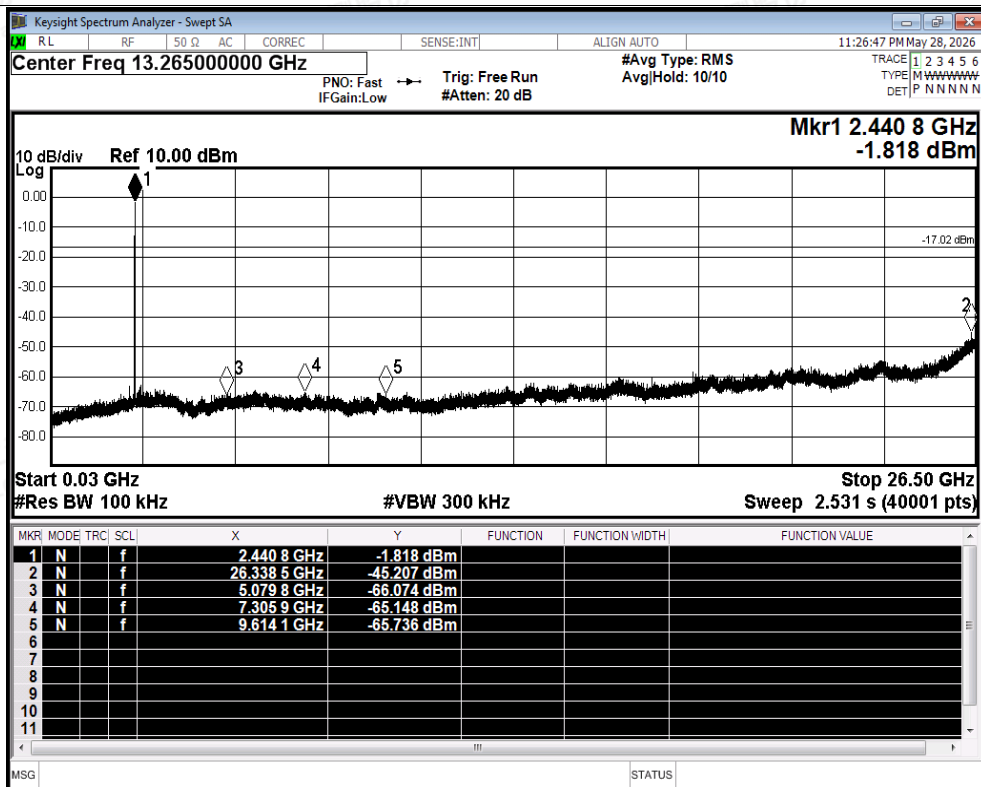
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

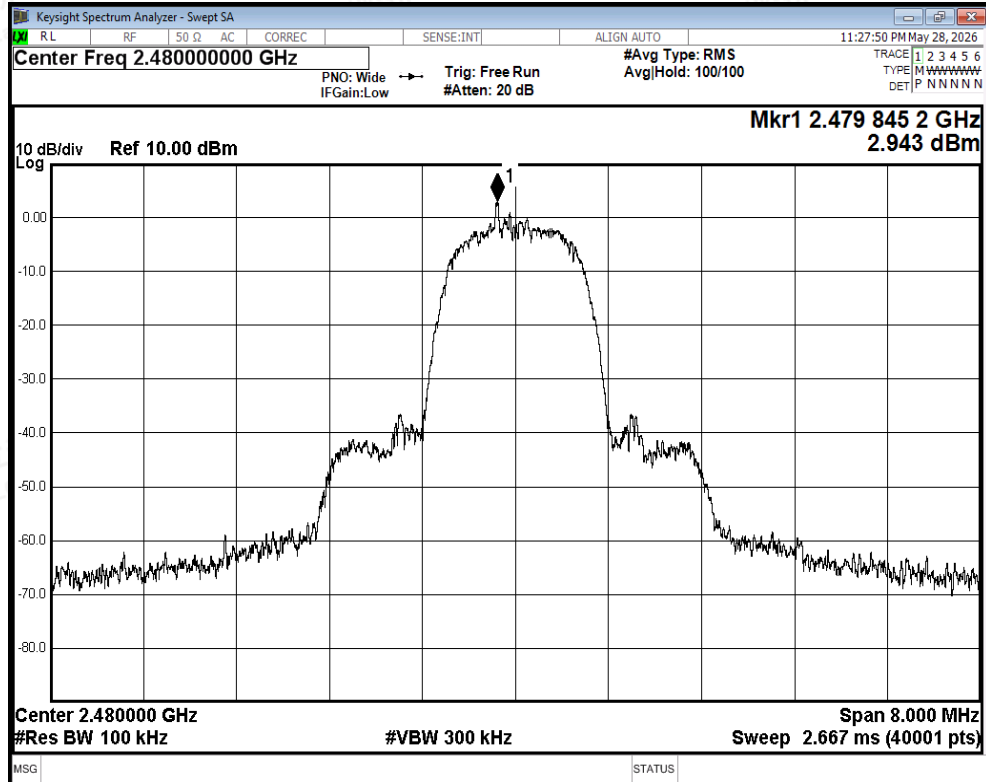


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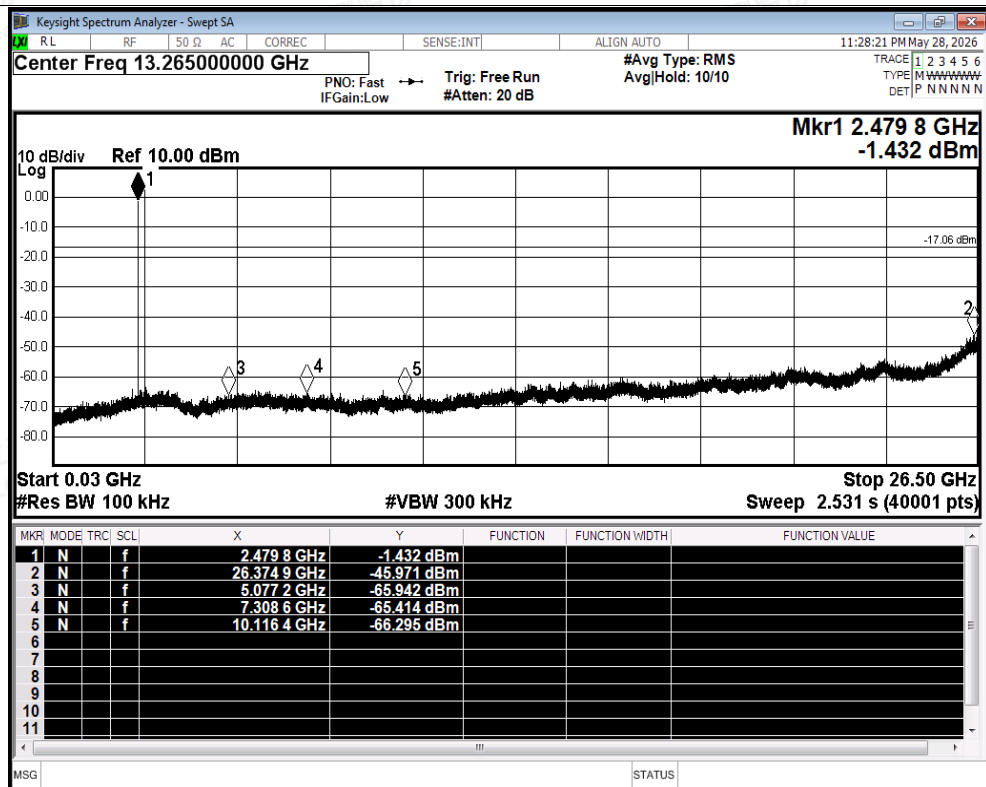
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

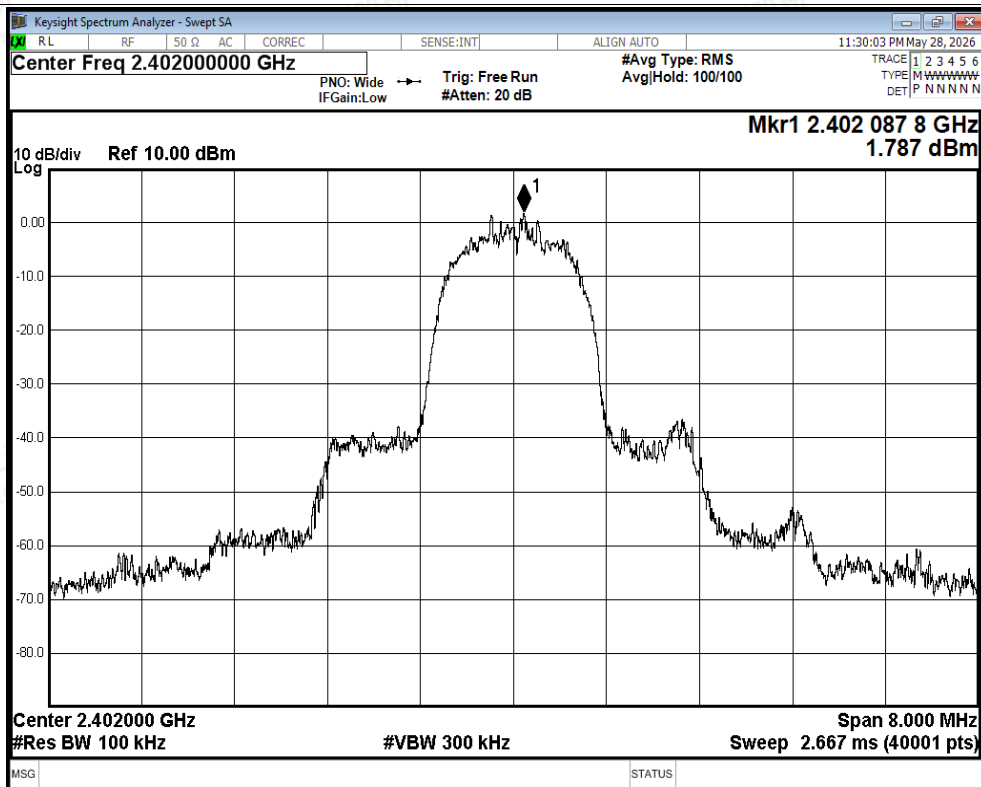


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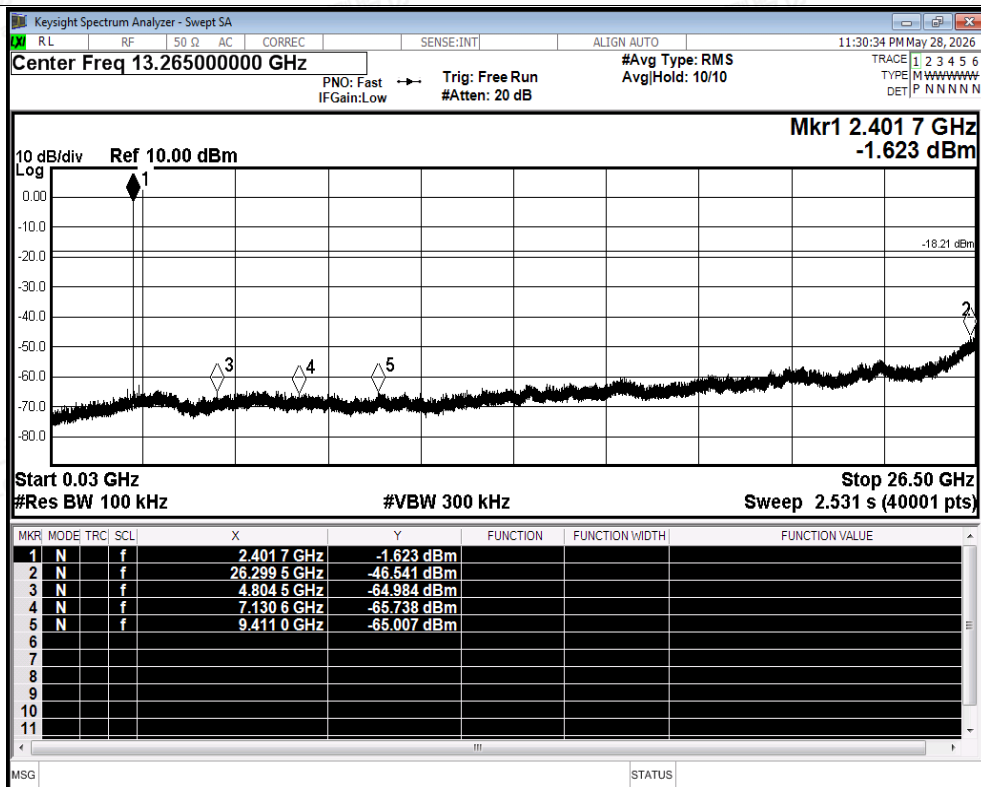
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

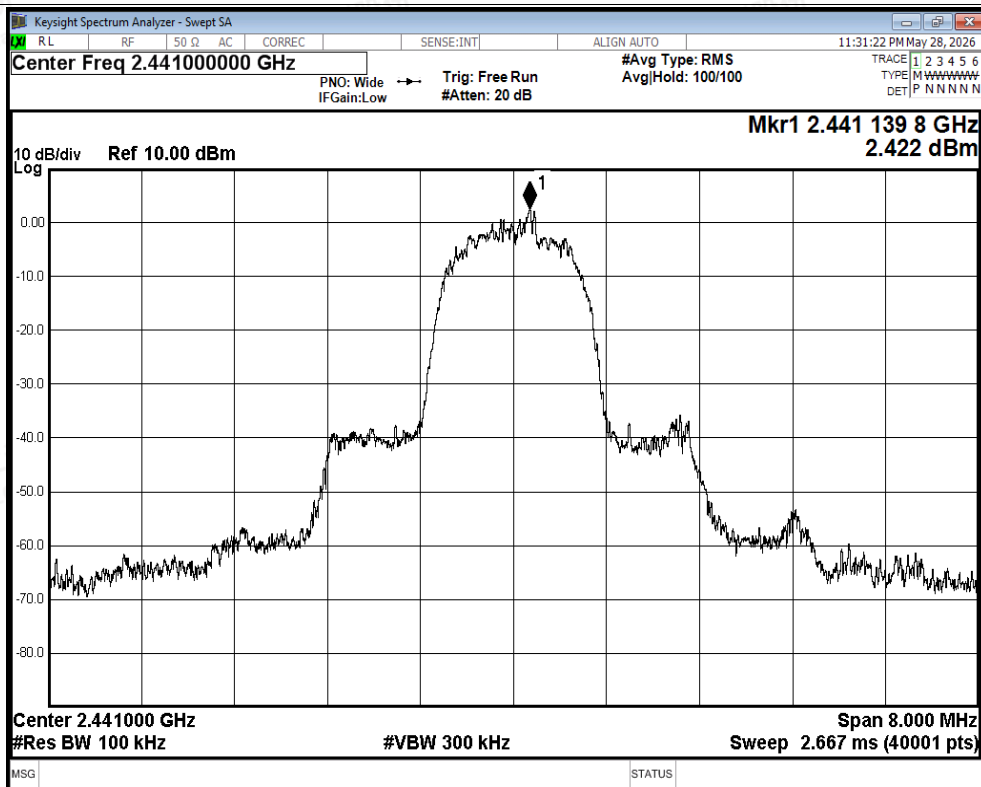


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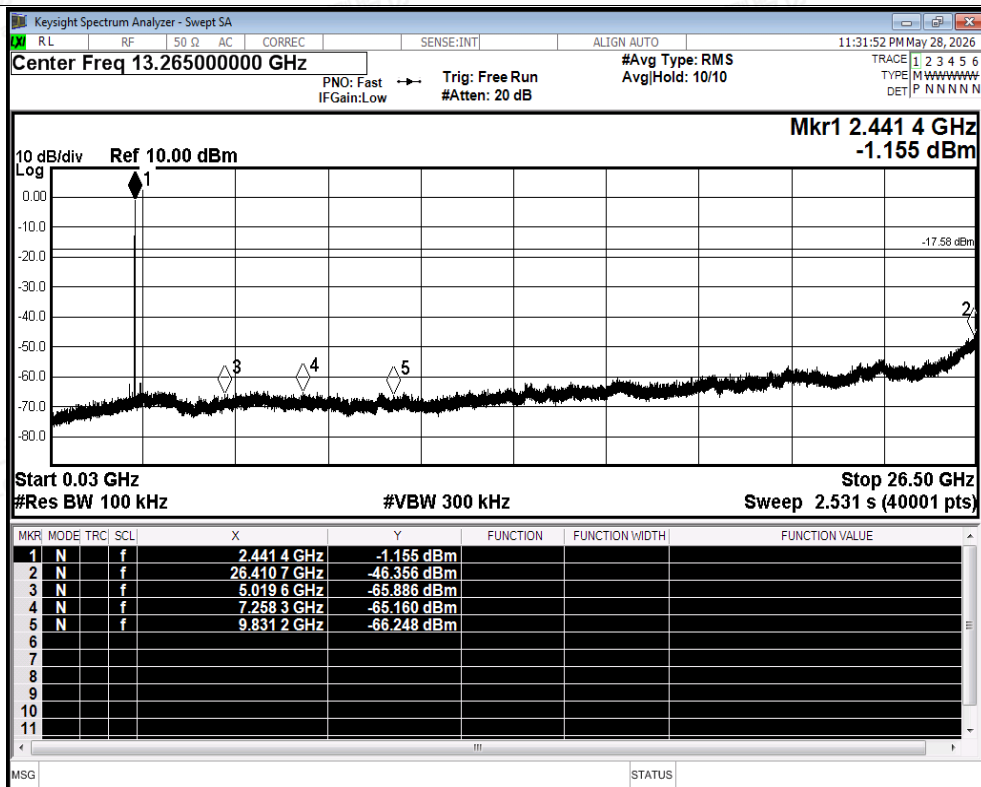
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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

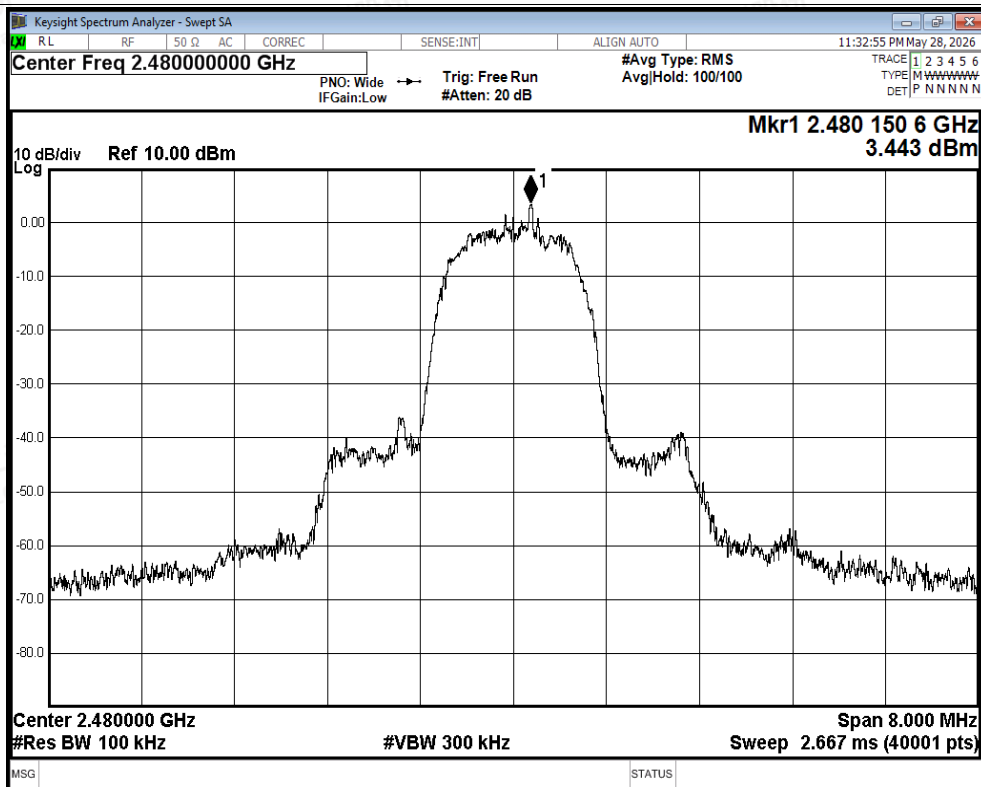


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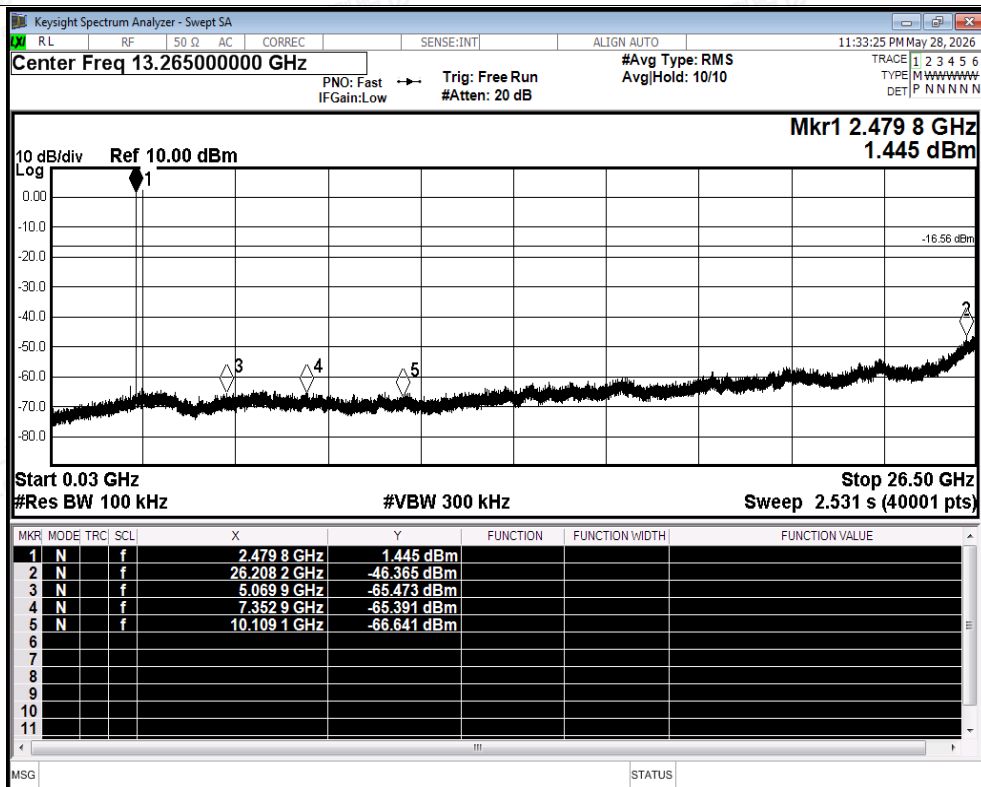
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.8	1.15	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2480	Ant1	76.96	1.14	0.35

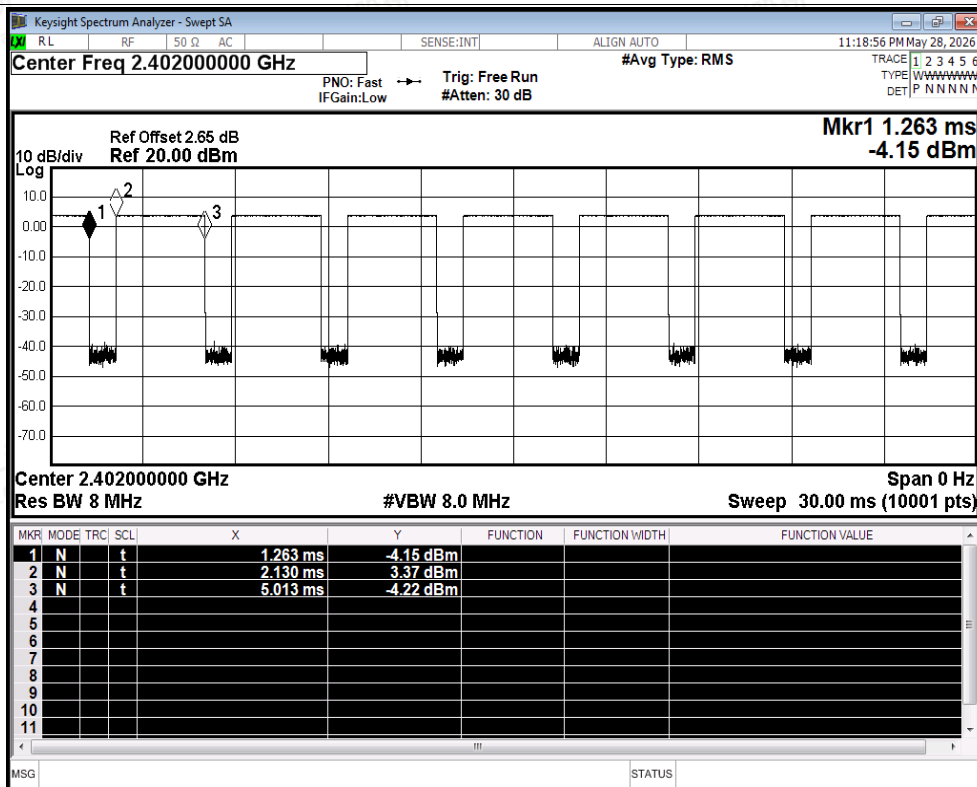


Shenzhen LCS Compliance Testing Laboratory Ltd.

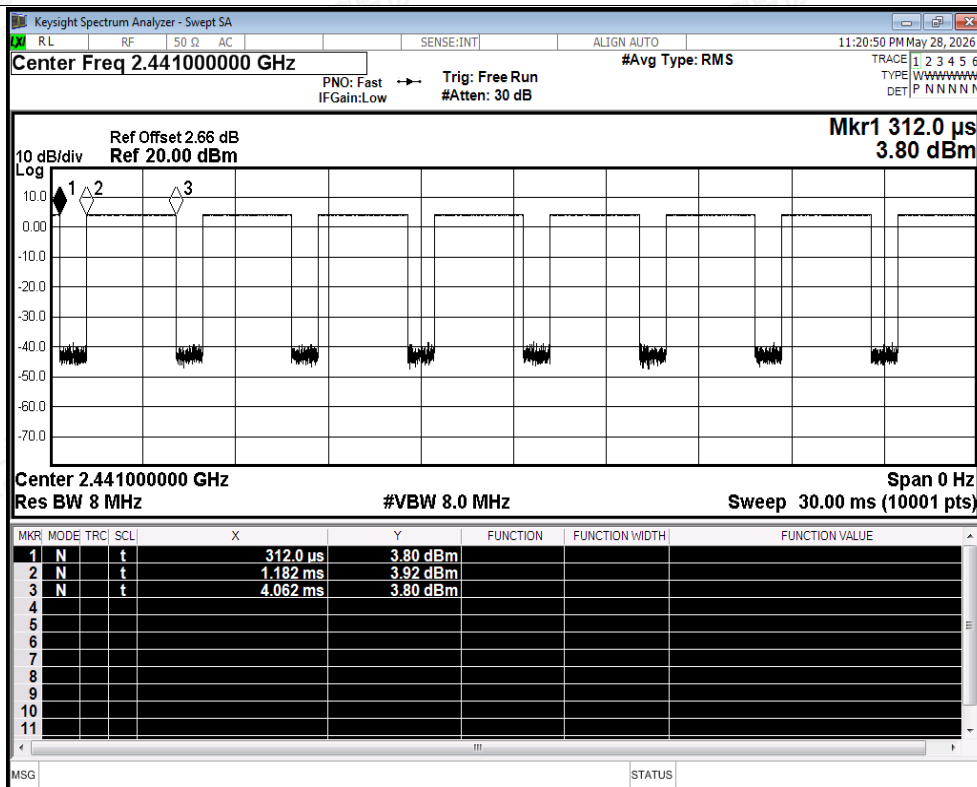
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Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1

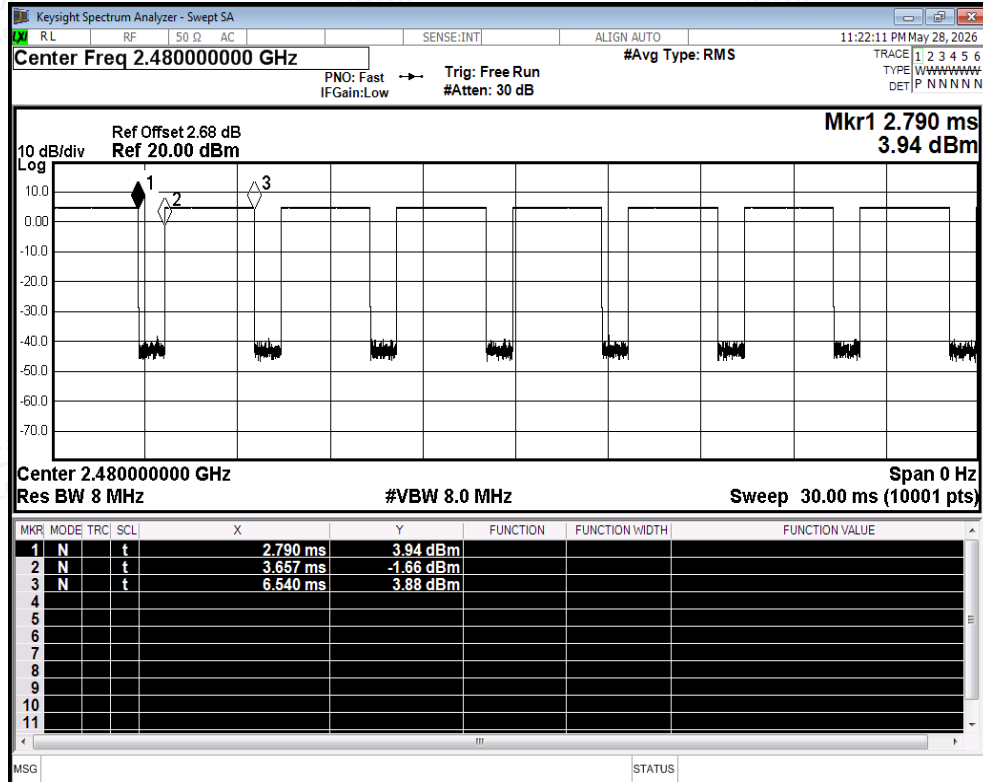


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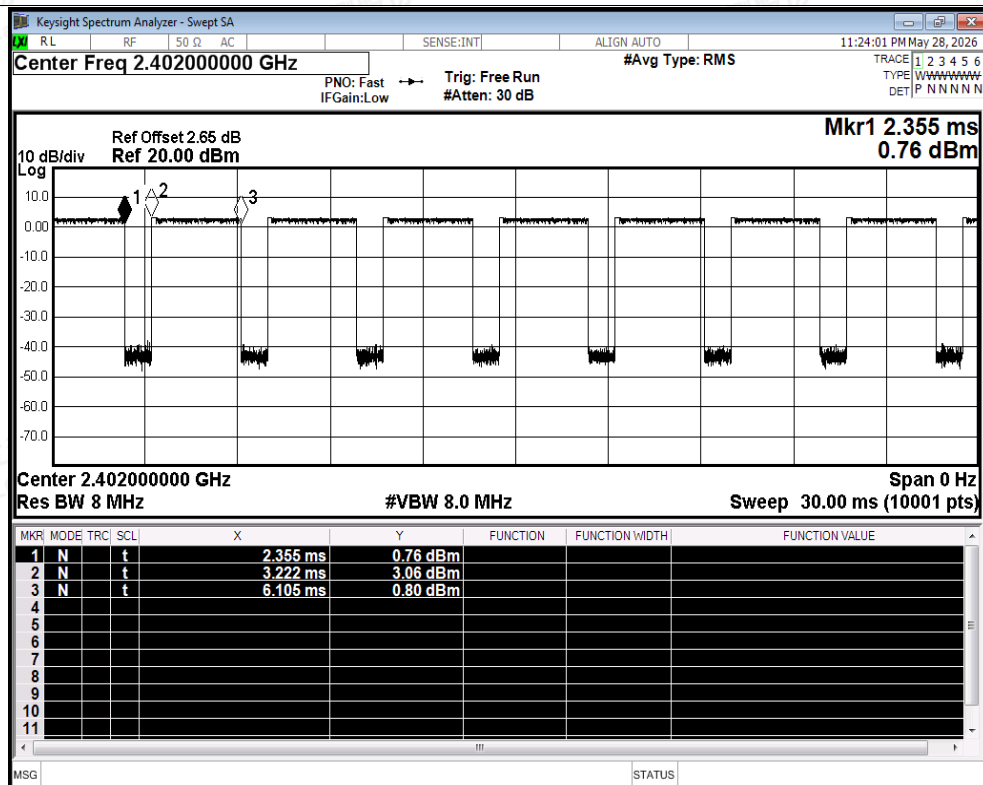
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Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1

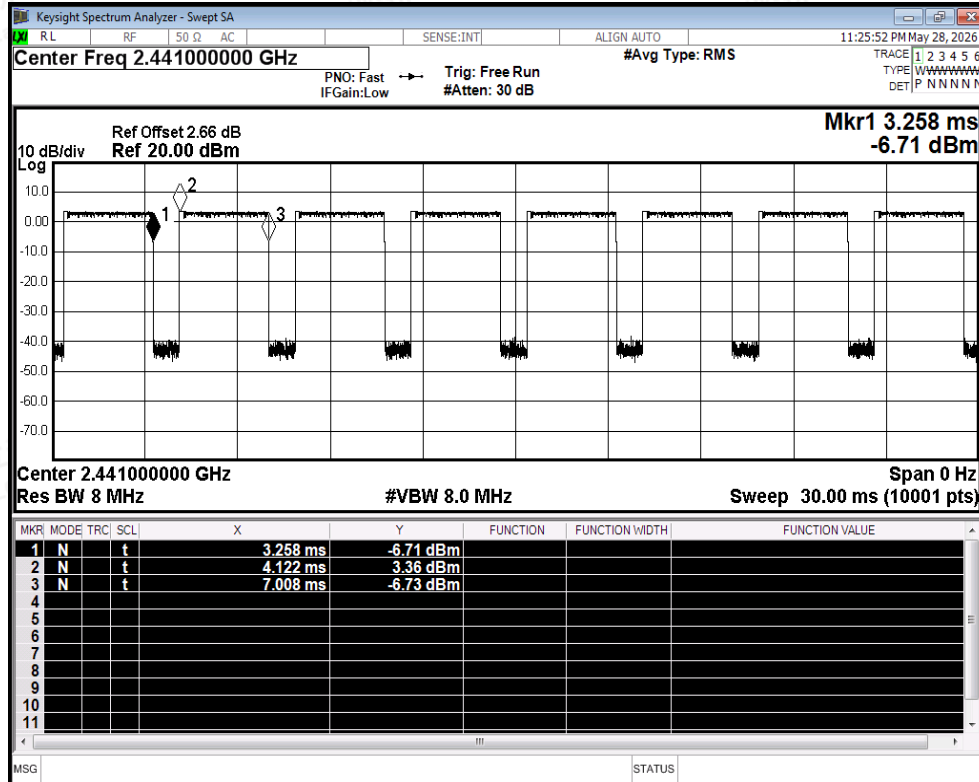


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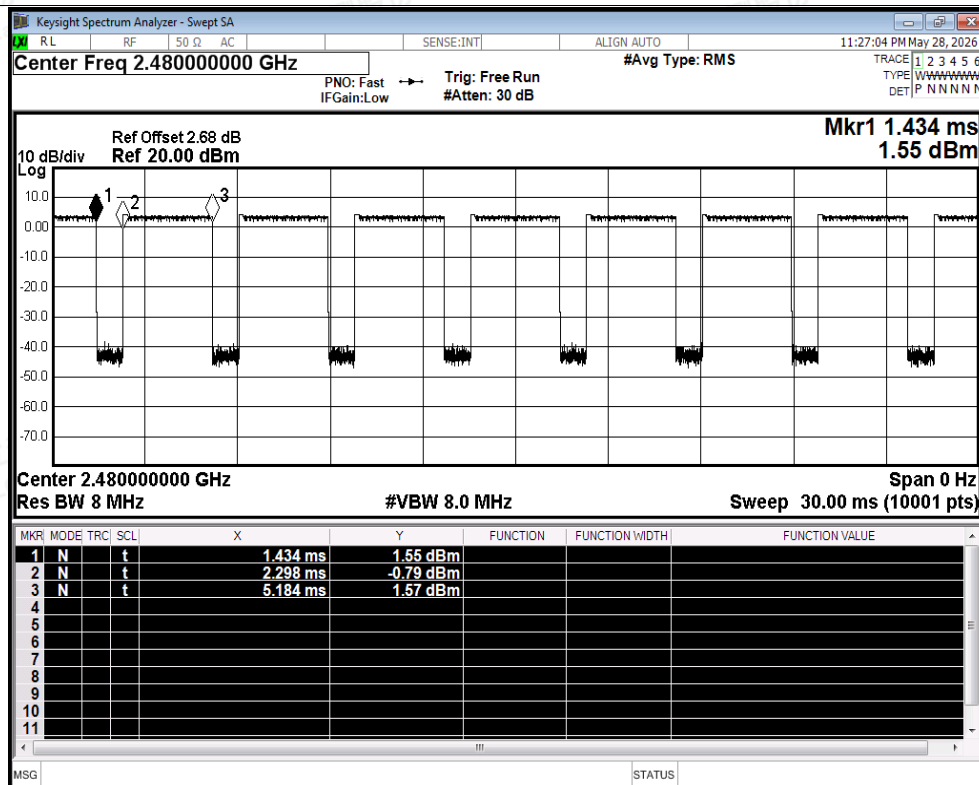
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1

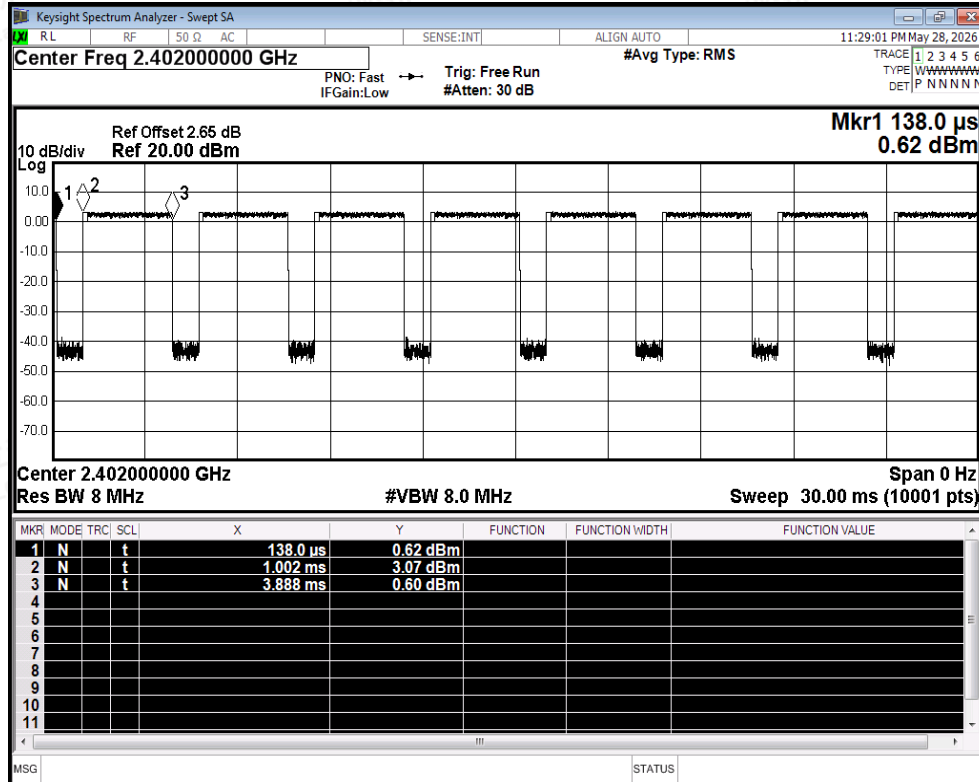


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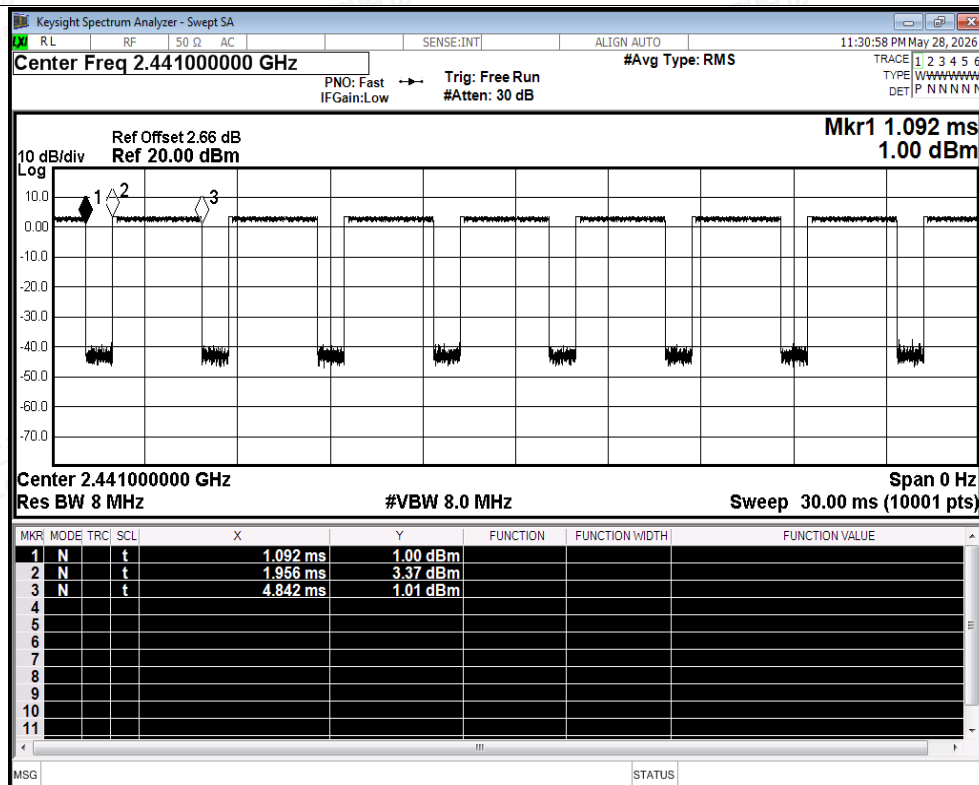
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Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

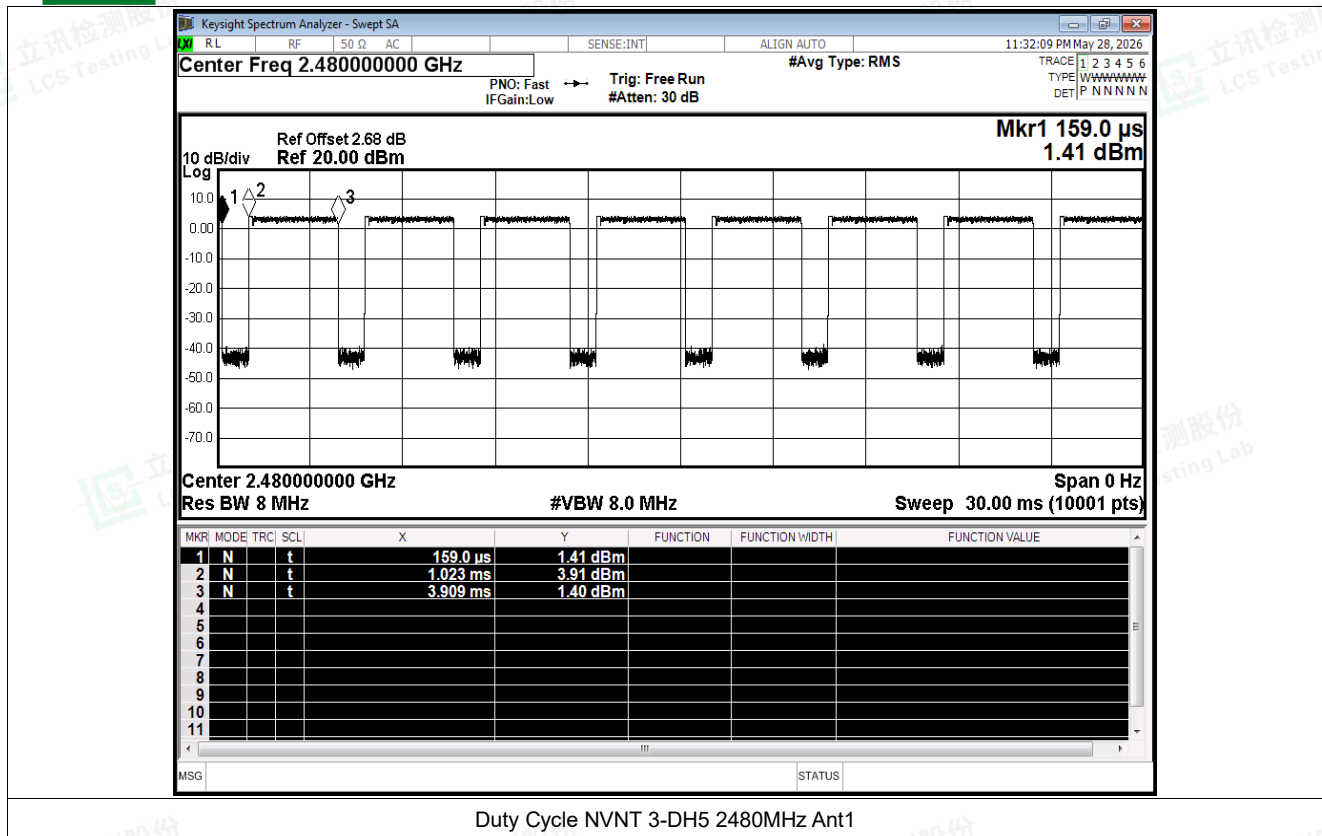


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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50	4.67	49.93	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.19	4.67	42.74	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2315.856	-46.48	4.67	53.45	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2321.808	-56.87	4.67	43.06	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.85	4.67	50.08	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.03	4.67	42.90	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.73	4.67	50.20	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.08	4.67	45.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.128	-46.71	4.67	53.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-54.08	4.67	45.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.12	4.67	48.81	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.89	4.67	43.04	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.65	4.67	51.28	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.14	4.67	42.79	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2311.632	-46.7	4.67	53.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2322.192	-56.92	4.67	43.01	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.29	4.67	50.64	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.09	4.67	42.84	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.78	4.67	50.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.91	4.67	46.02	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.992	-46.63	4.67	53.30	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-53.91	4.67	46.02	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.91	4.67	50.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.97	4.67	42.96	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.57	4.67	49.36	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.09	4.67	42.84	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2347.536	-47.21	4.67	52.72	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310.96	-56.97	4.67	42.96	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.02	4.67	49.91	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.12	4.67	42.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.44	4.67	51.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.75	4.67	46.18	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2497.576	-45.75	4.67	54.18	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.75	4.67	46.18	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.71	4.67	50.22	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.93	4.67	43.00	Average	54	Pass

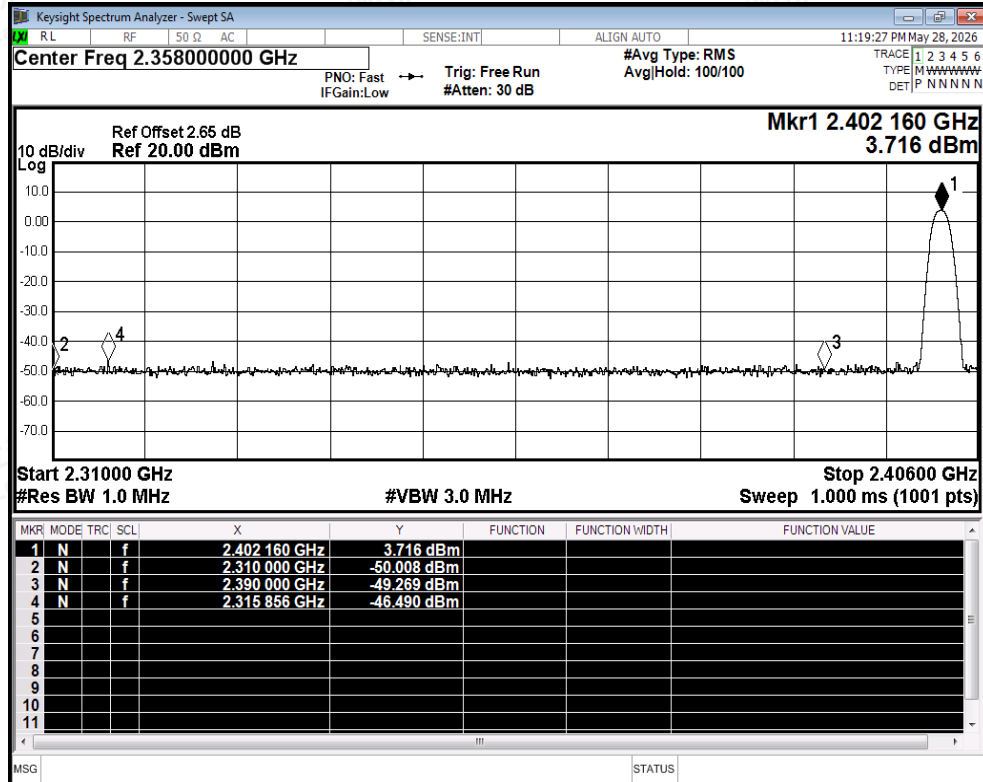


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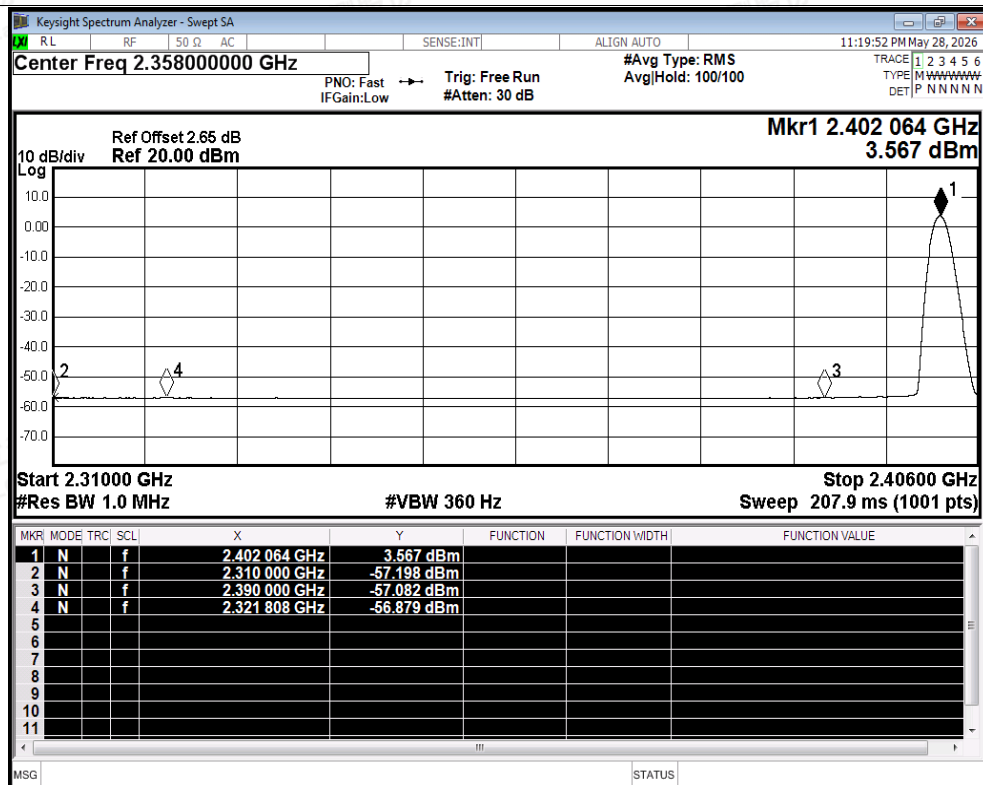
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Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



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

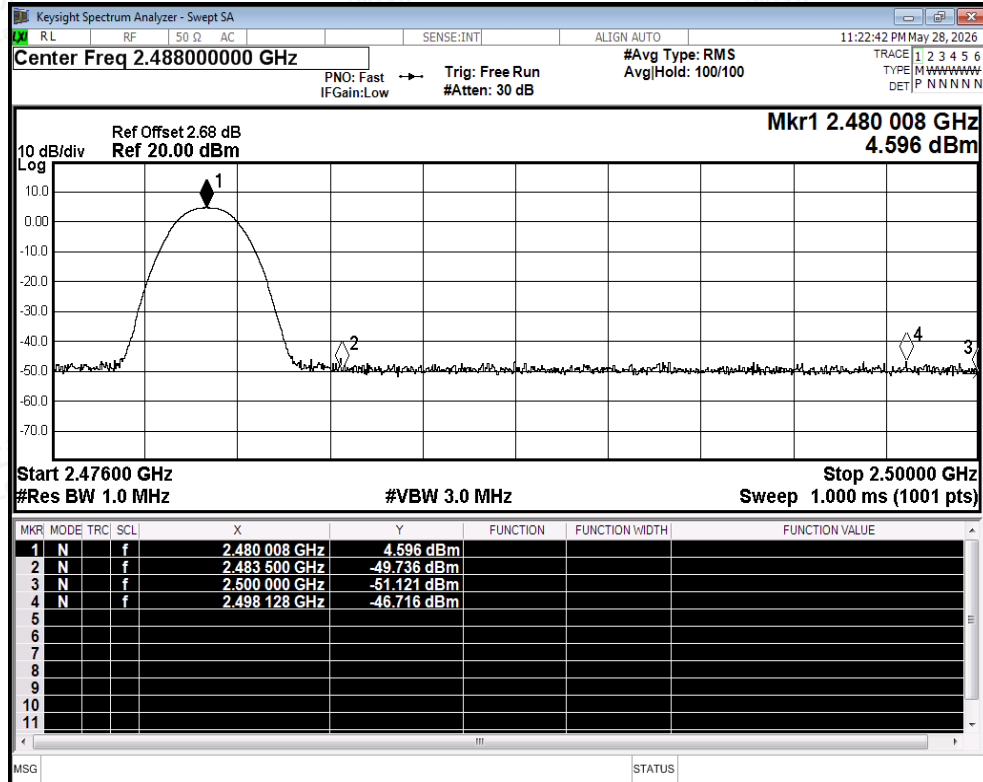


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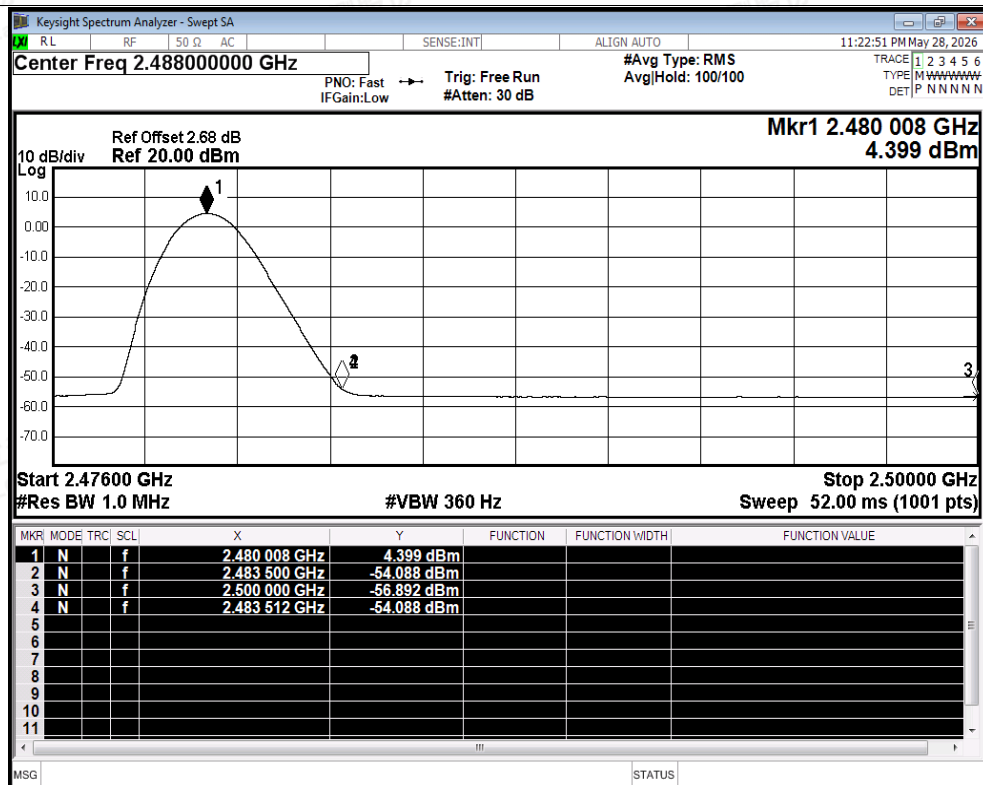
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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

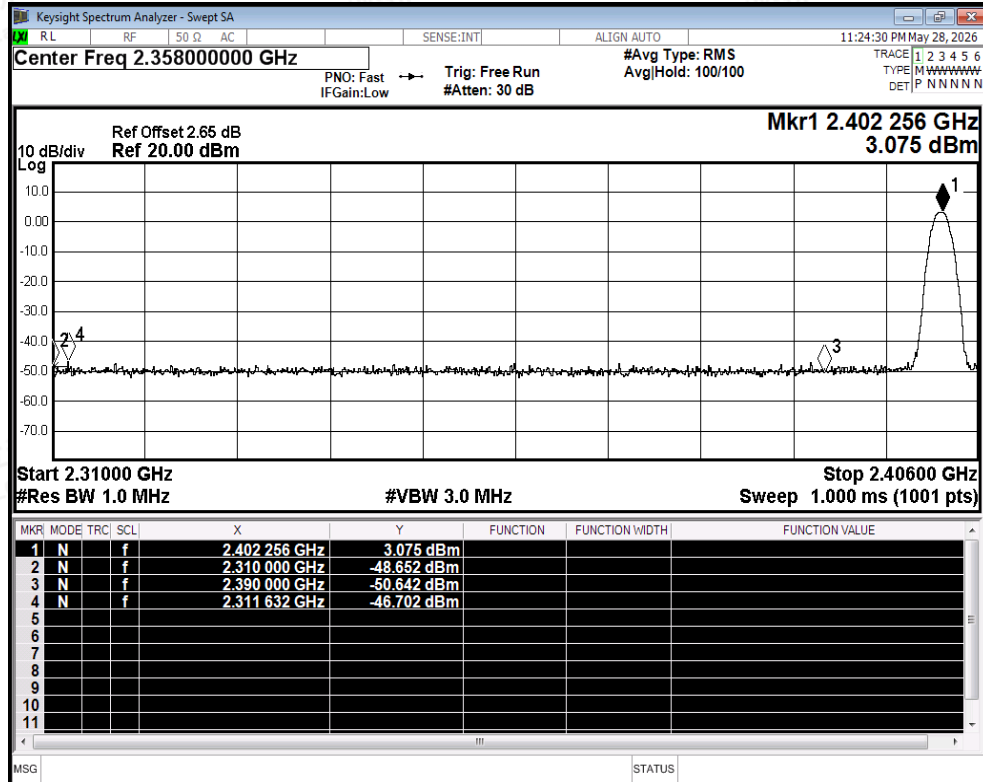


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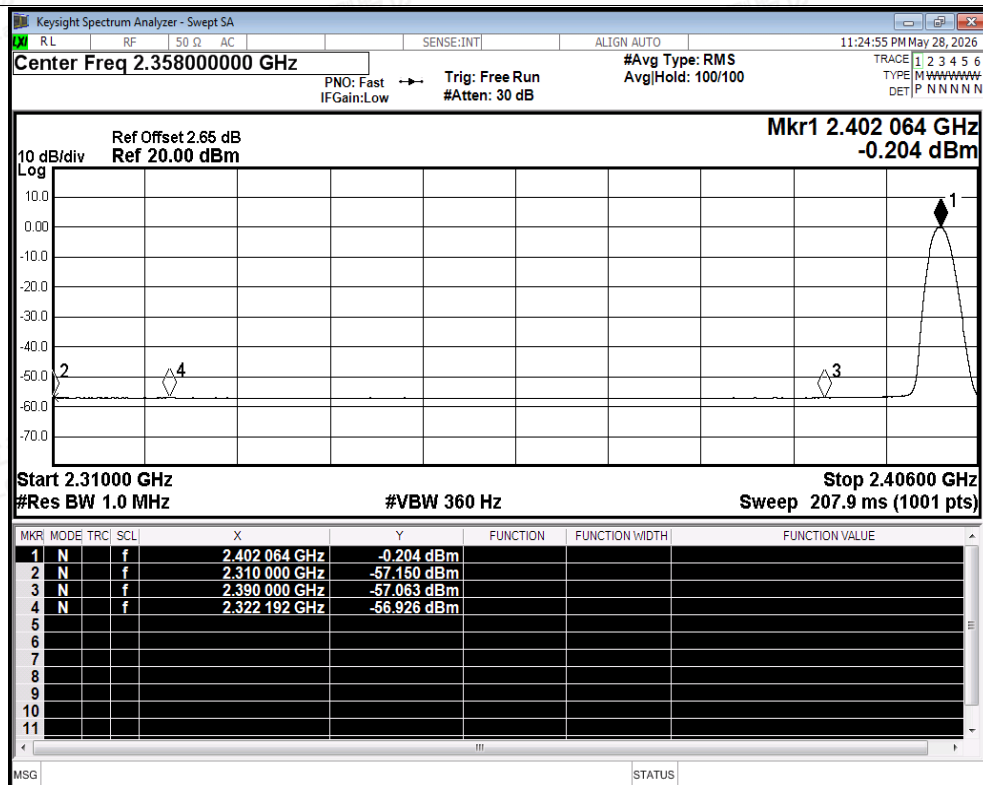
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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

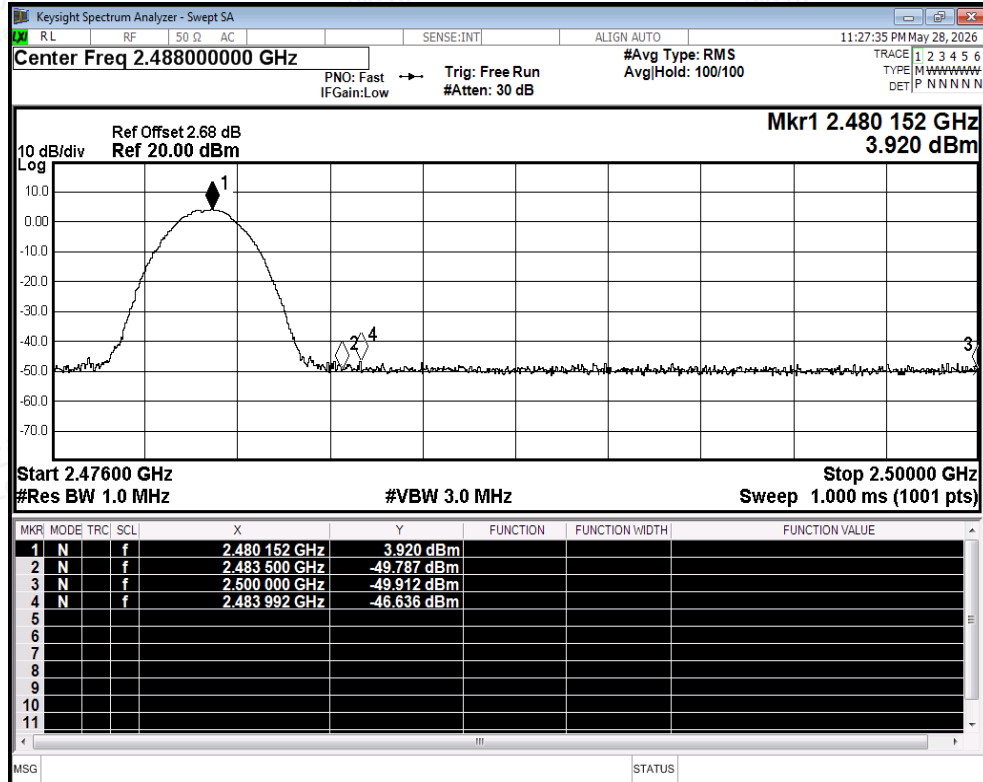


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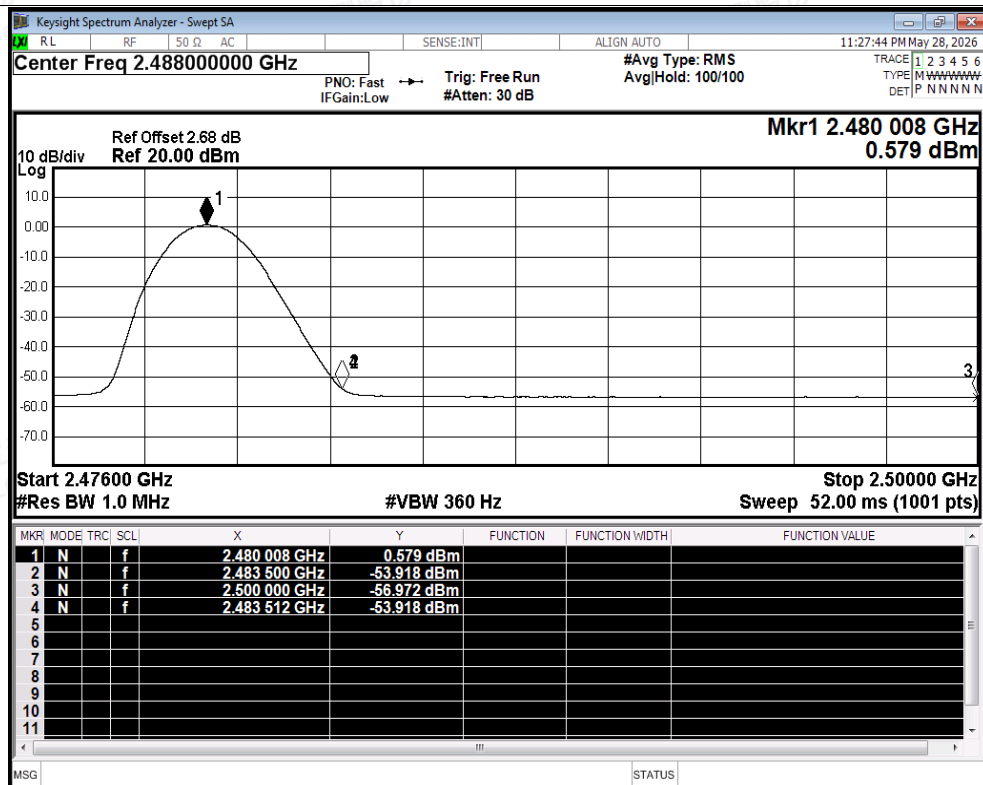
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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

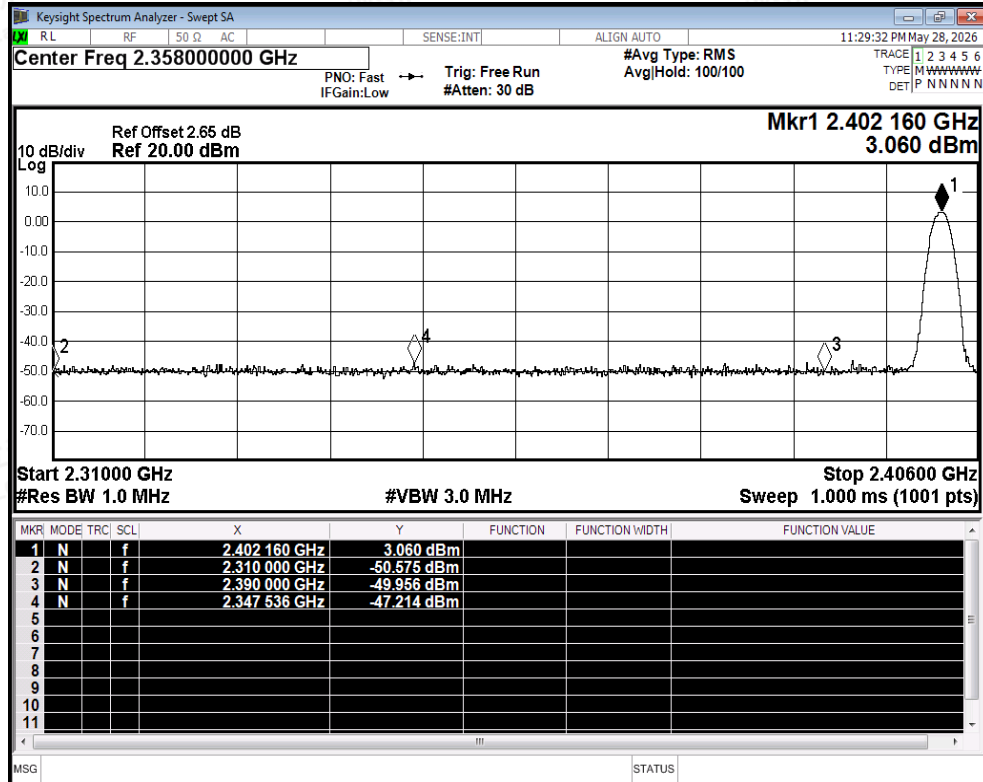


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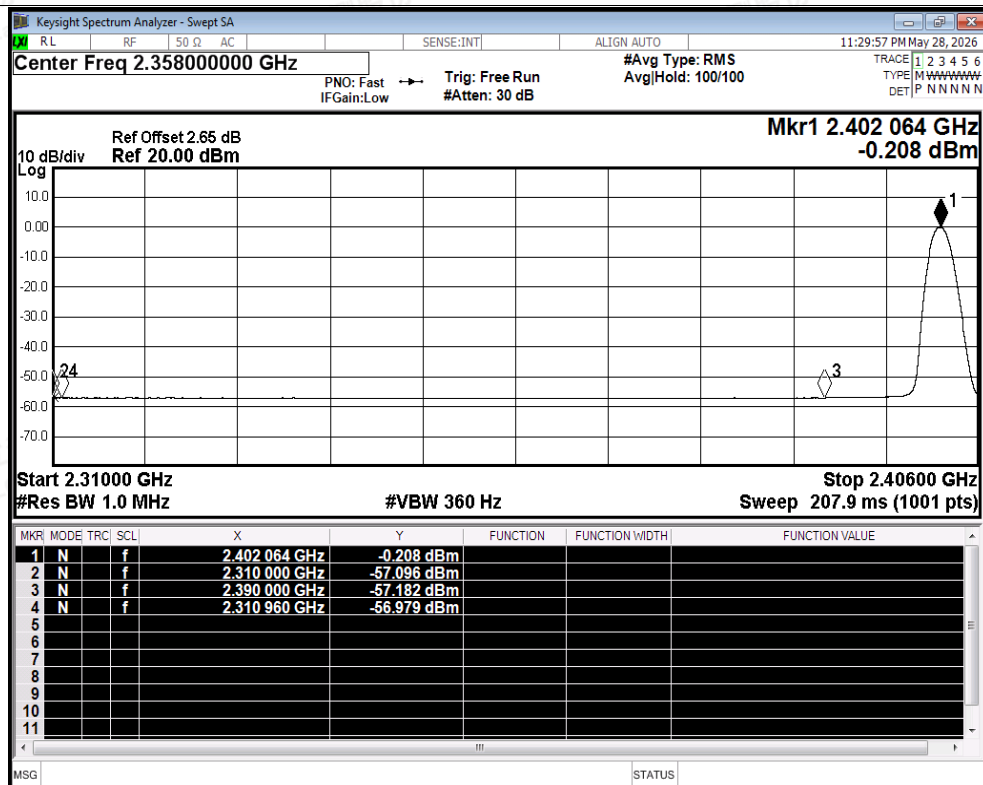
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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

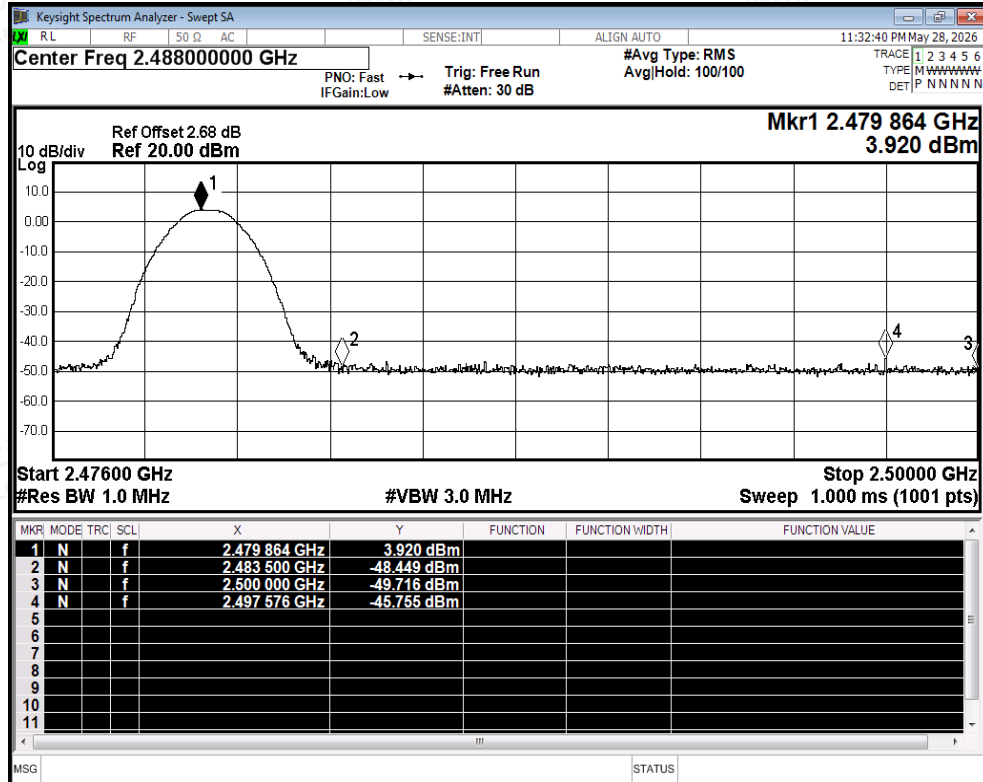


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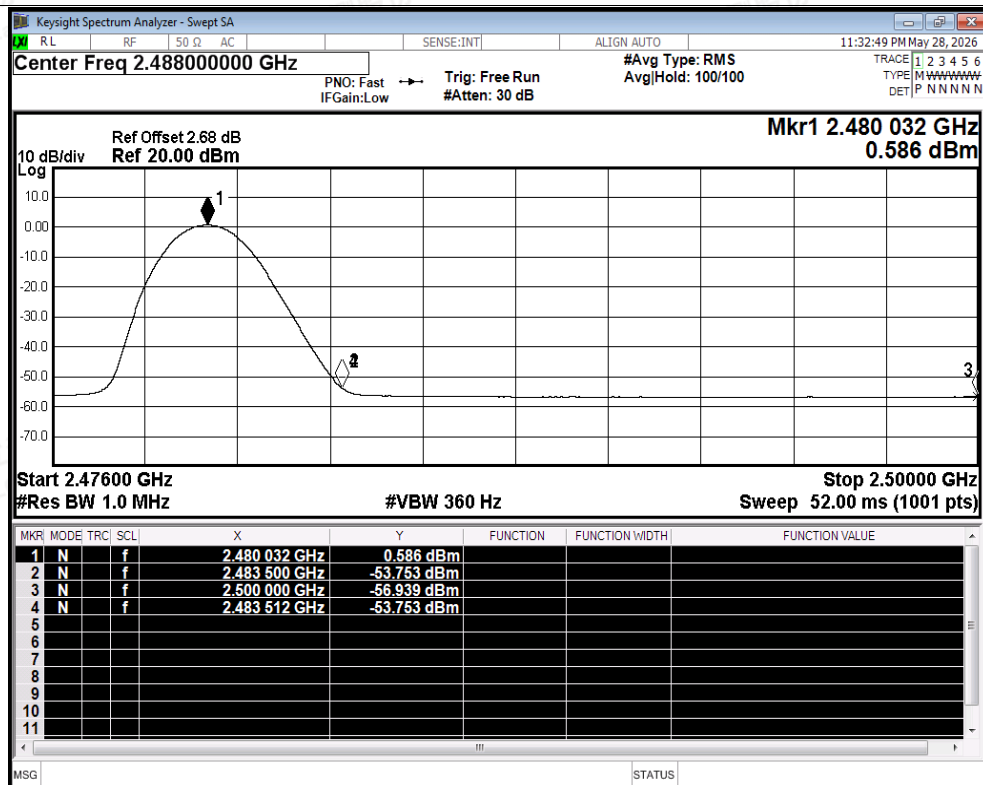
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



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