



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: IP Video Door Station

Test Model: D11x Rev 2.1

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Paddi Chen



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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.081	0.5	Pass
NVNT	b	2437	Ant1	9.1	0.5	Pass
NVNT	b	2462	Ant1	9.111	0.5	Pass
NVNT	g	2412	Ant1	16.3	0.5	Pass
NVNT	g	2437	Ant1	16.31	0.5	Pass
NVNT	g	2462	Ant1	16.33	0.5	Pass
NVNT	n20	2412	Ant1	17.26	0.5	Pass
NVNT	n20	2437	Ant1	17.41	0.5	Pass
NVNT	n20	2462	Ant1	17.37	0.5	Pass
NVNT	n40	2422	Ant1	35.85	0.5	Pass
NVNT	n40	2437	Ant1	35.67	0.5	Pass
NVNT	n40	2452	Ant1	35.63	0.5	Pass

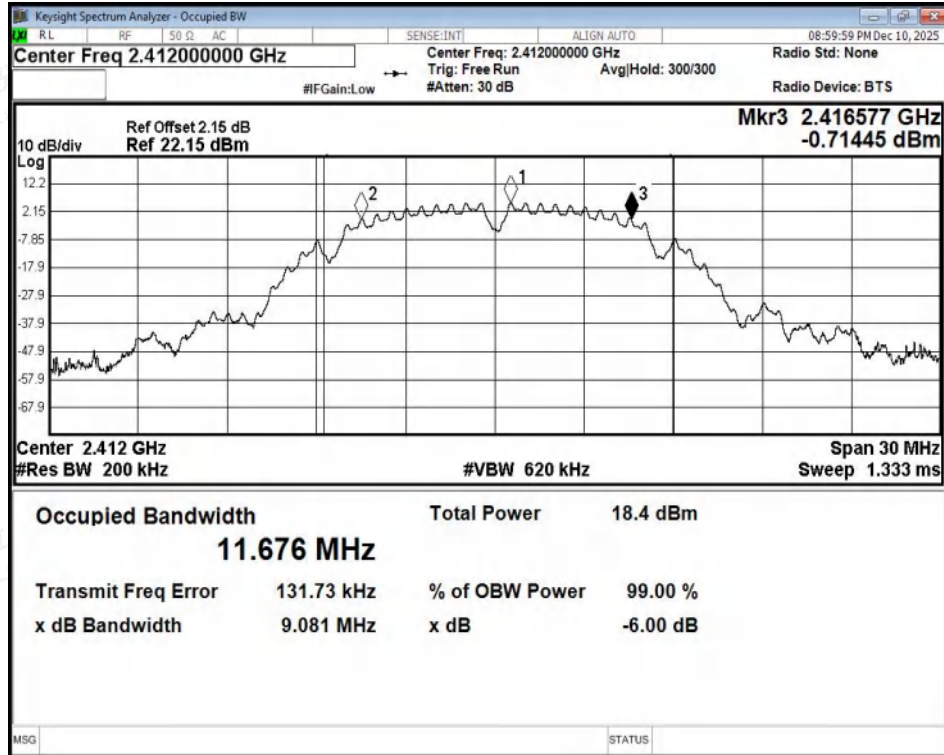


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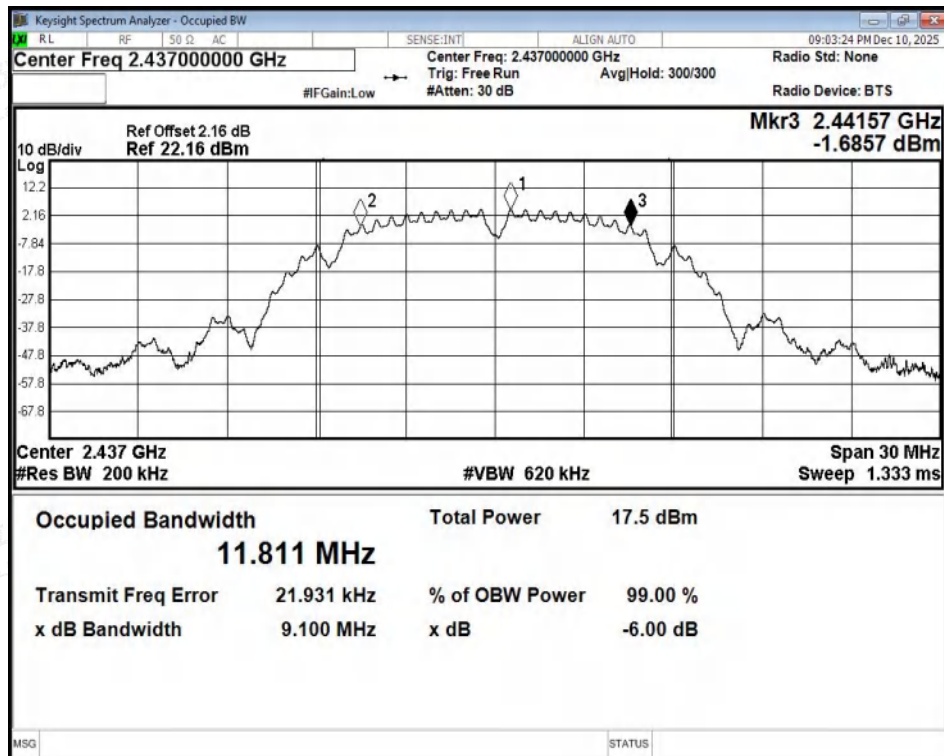
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-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

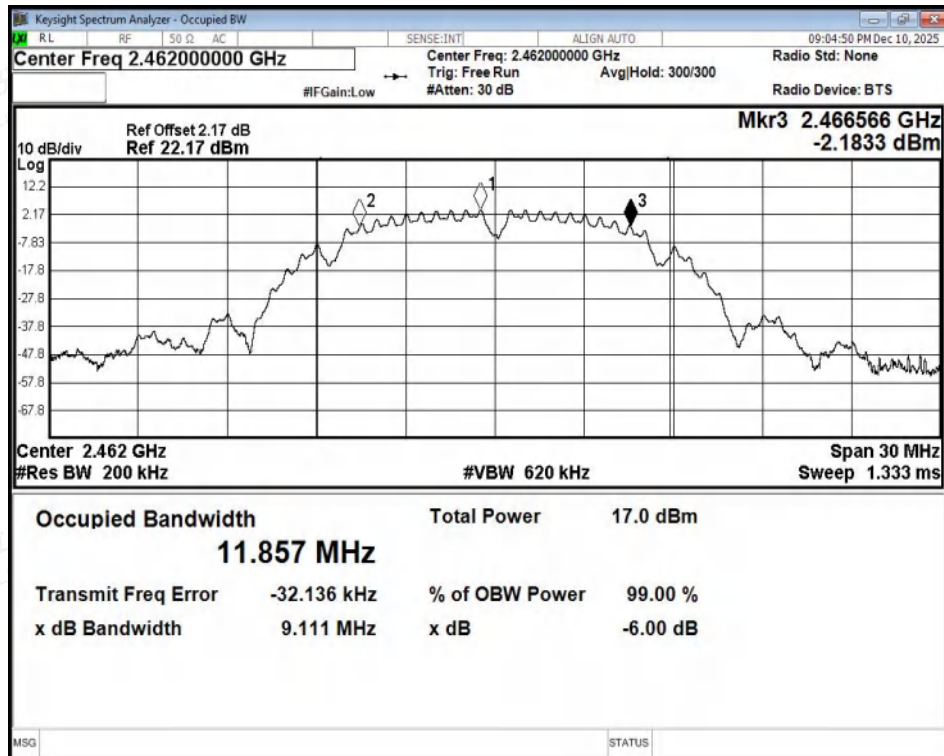


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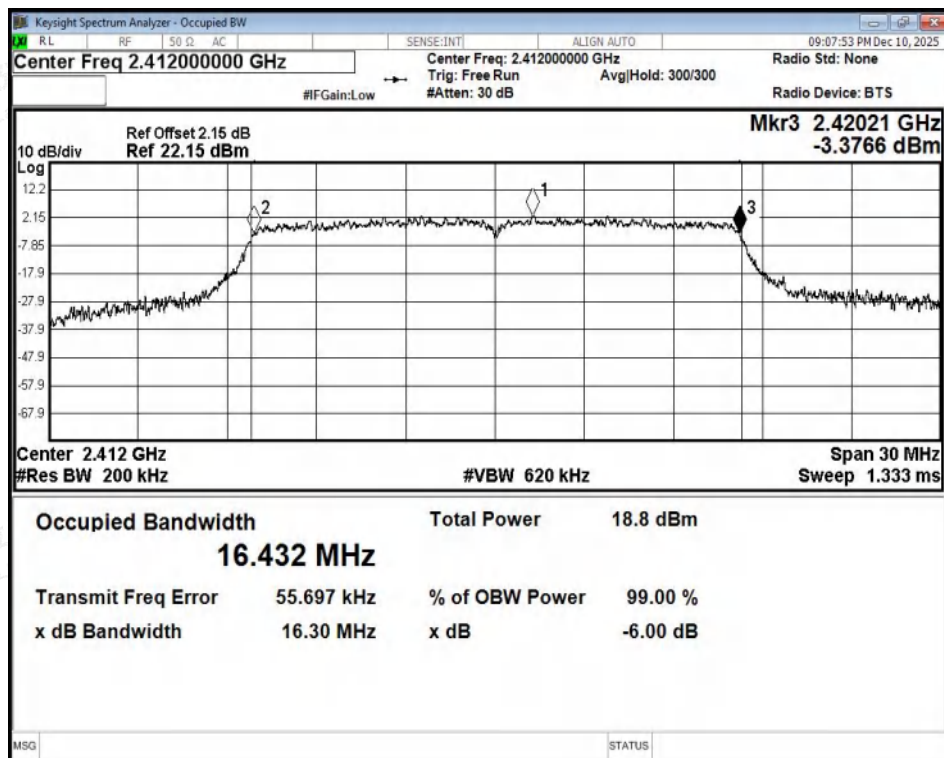
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

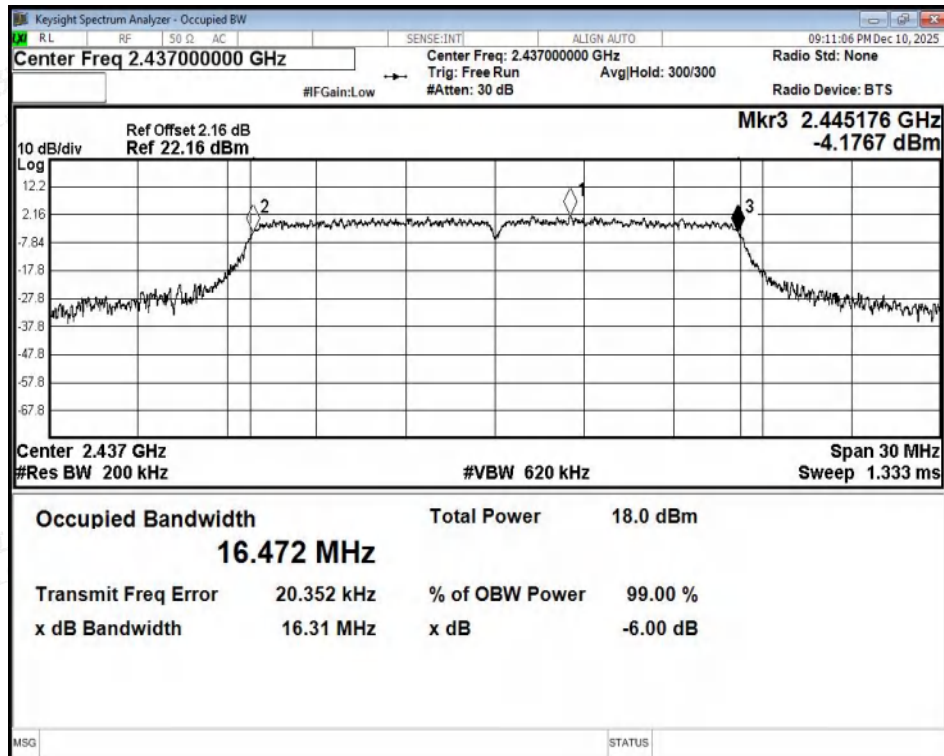


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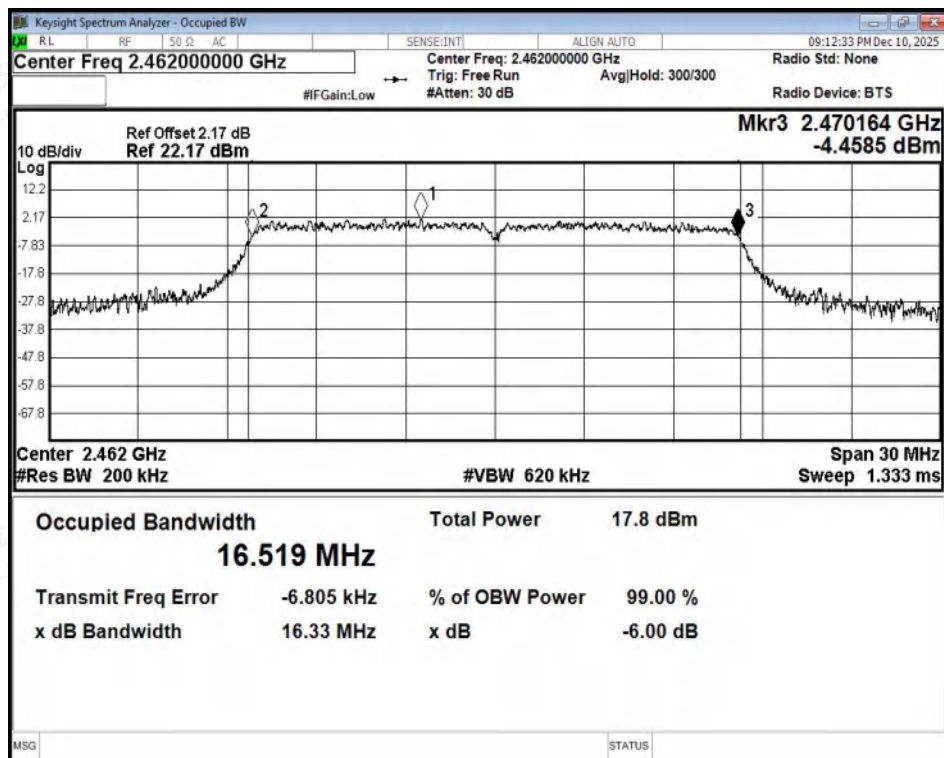
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1

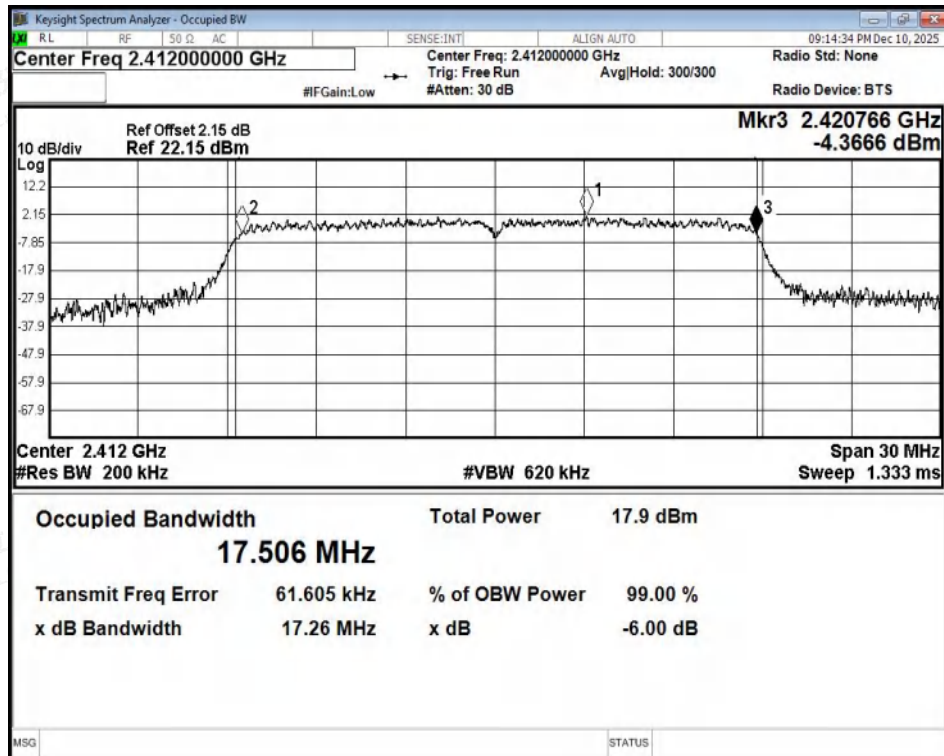


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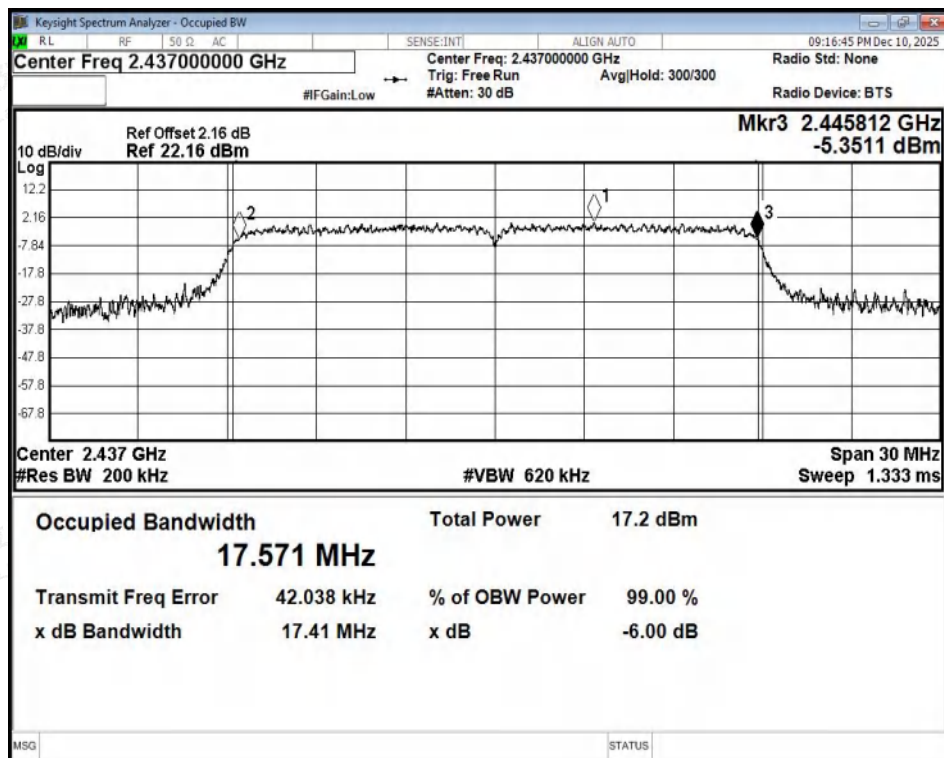
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

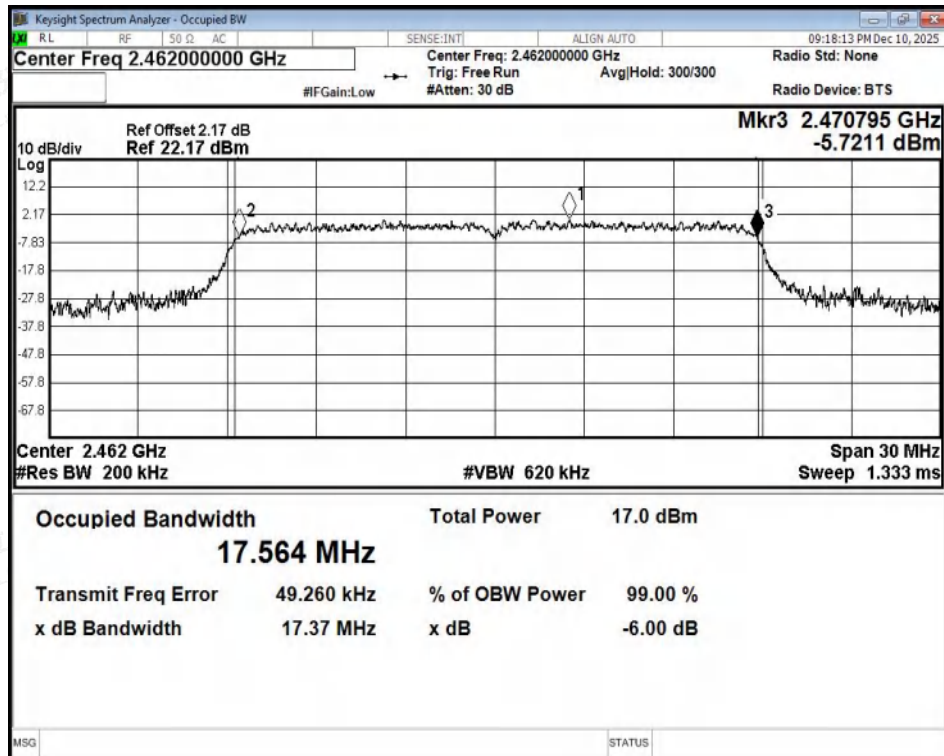


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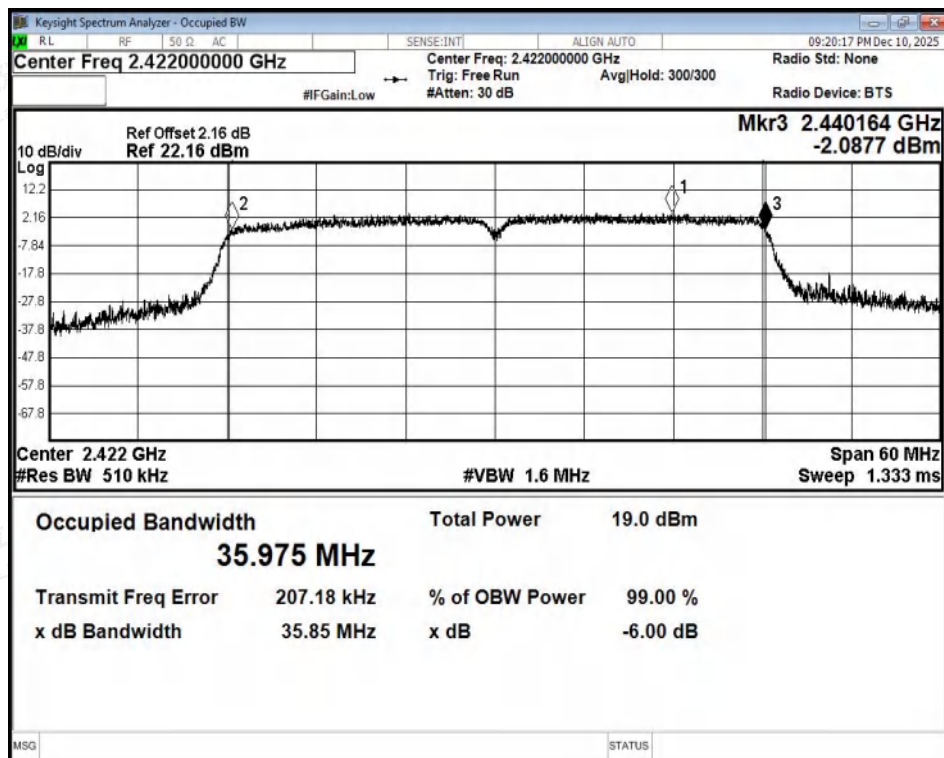
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-6dB Bandwidth NVNT n40 2422MHz Ant1

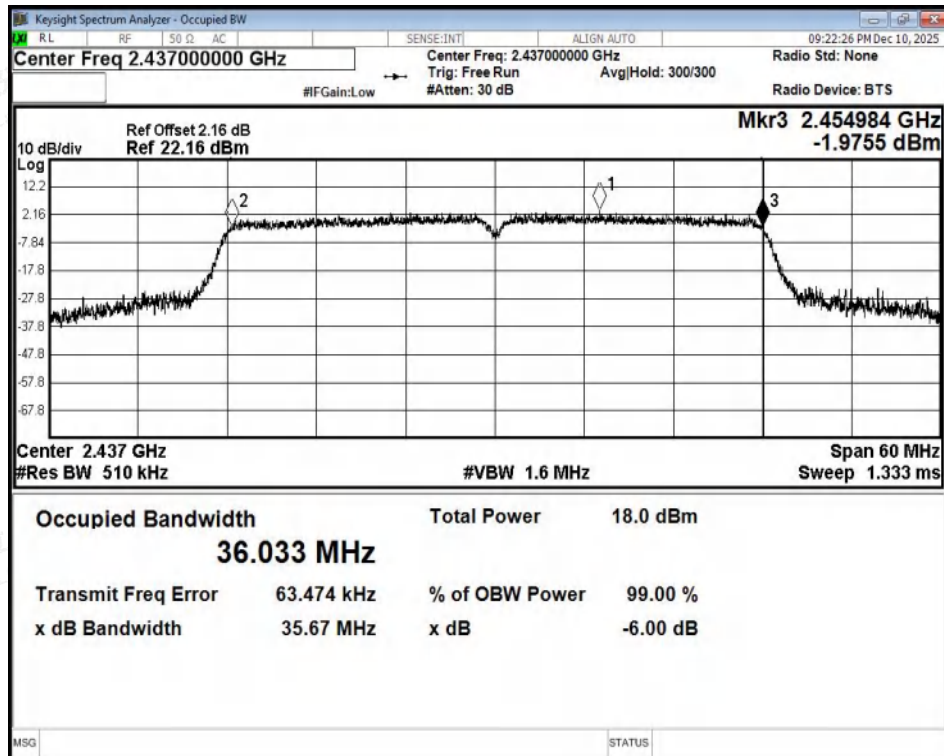


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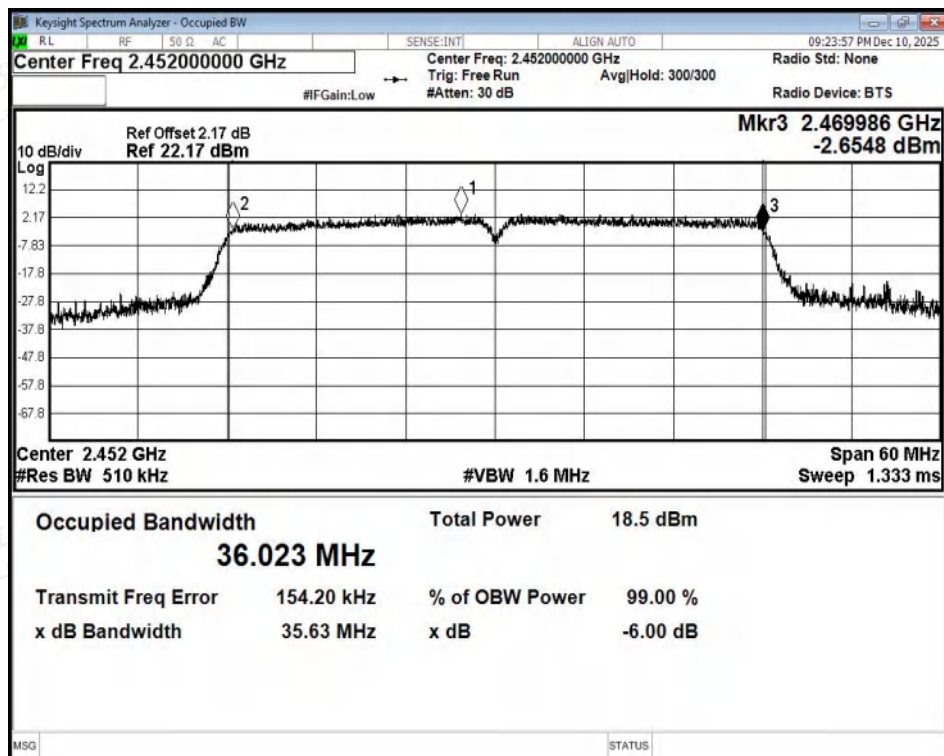
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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A.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Average Conducted Power (dBm)	Duty Factor (dB)	Total Average Conducted Power (dBm)	Total Average Conducted Power (W)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	14.69	0.04	14.73	0.02239	30	Pass
NVNT	b	2437	Ant1	14.05	0.04	14.09	0.01811	30	Pass
NVNT	b	2462	Ant1	14.04	0.04	14.08	0.01633	30	Pass
NVNT	g	2412	Ant1	13.88	0.1	13.98	0.01824	30	Pass
NVNT	g	2437	Ant1	14.47	0.1	14.57	0.01542	30	Pass
NVNT	g	2462	Ant1	14.45	0.1	14.55	0.01449	30	Pass
NVNT	n20	2412	Ant1	13.32	0.12	13.44	0.01528	30	Pass
NVNT	n20	2437	Ant1	13.52	0.12	13.64	0.013	30	Pass
NVNT	n20	2462	Ant1	13.73	0.12	13.85	0.0123	30	Pass
NVNT	n40	2422	Ant1	13.55	0.24	13.79	0.01706	30	Pass
NVNT	n40	2437	Ant1	12.63	0.24	12.87	0.0139	30	Pass
NVNT	n40	2452	Ant1	11.99	0.24	12.23	0.01542	30	Pass



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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.04	0.04	-8	8	Pass
NVNT	b	2437	Ant1	-9.3	0.04	-9.26	8	Pass
NVNT	b	2462	Ant1	-9.55	0.04	-9.51	8	Pass
NVNT	g	2412	Ant1	-11.39	0.1	-11.29	8	Pass
NVNT	g	2437	Ant1	-12.17	0.1	-12.07	8	Pass
NVNT	g	2462	Ant1	-12.04	0.1	-11.94	8	Pass
NVNT	n20	2412	Ant1	-13.06	0.12	-12.94	8	Pass
NVNT	n20	2437	Ant1	-13.7	0.12	-13.58	8	Pass
NVNT	n20	2462	Ant1	-14.35	0.12	-14.23	8	Pass
NVNT	n40	2422	Ant1	-15.51	0.24	-15.27	8	Pass
NVNT	n40	2437	Ant1	-16.25	0.24	-16.01	8	Pass
NVNT	n40	2452	Ant1	-16.23	0.24	-15.99	8	Pass

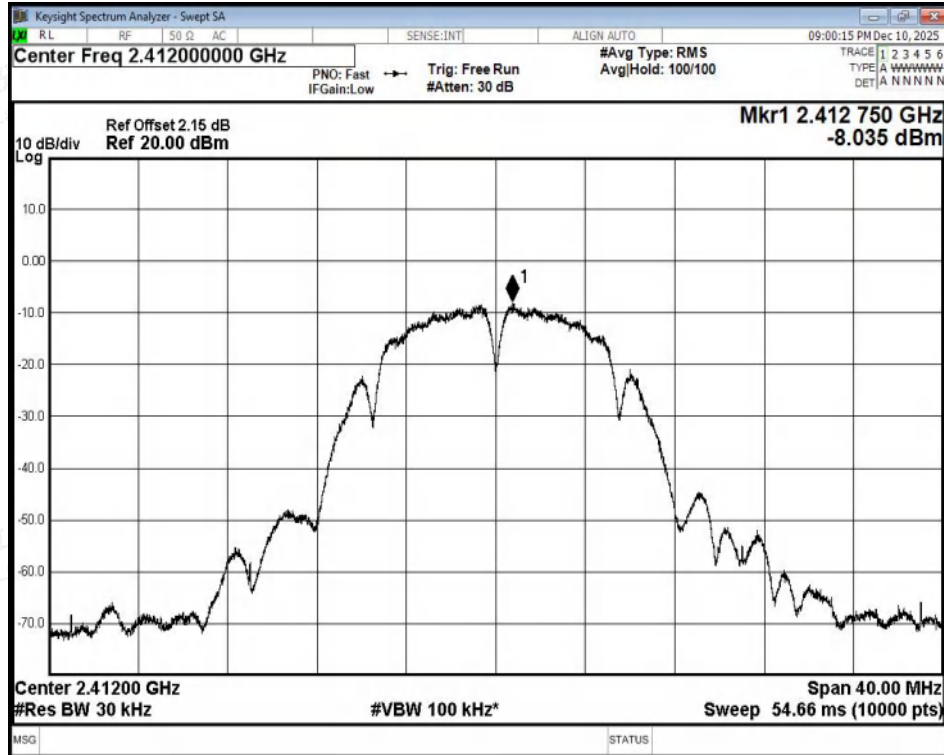


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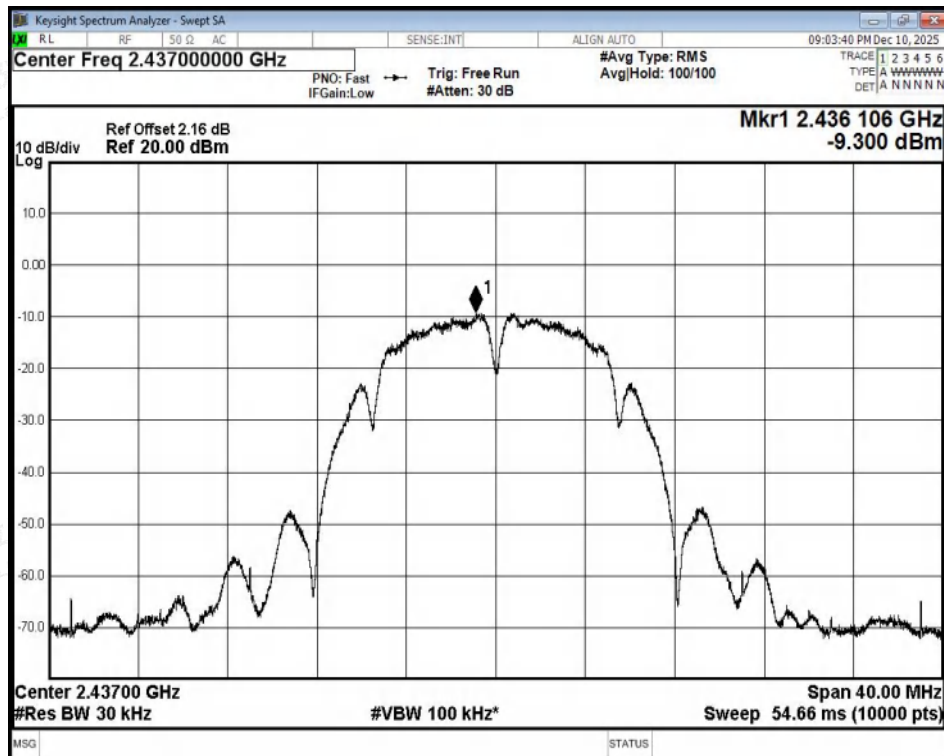
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PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

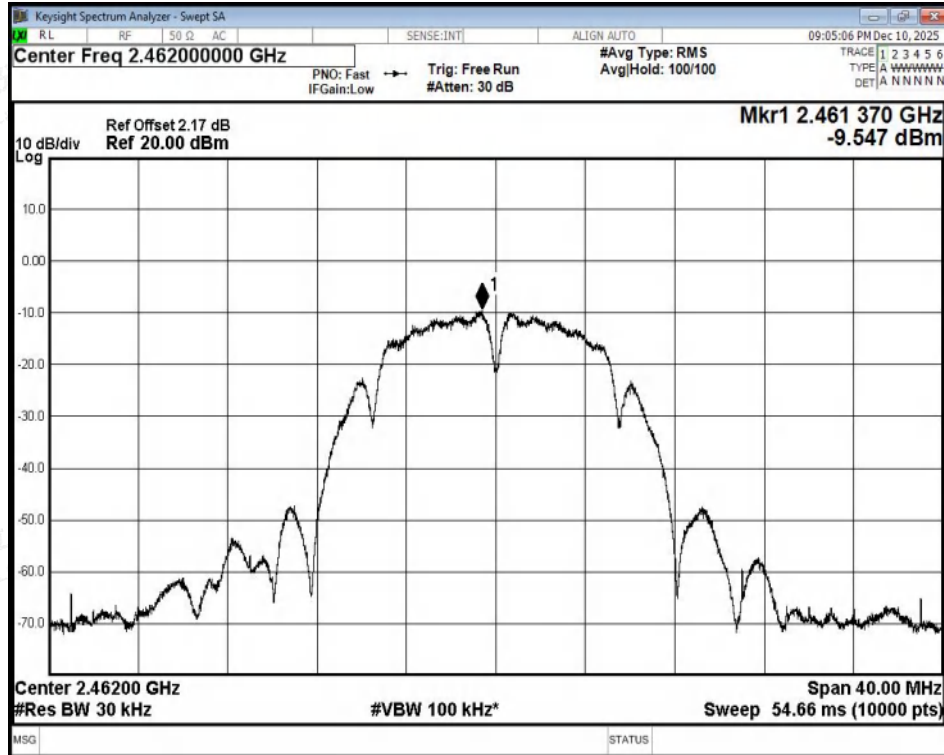


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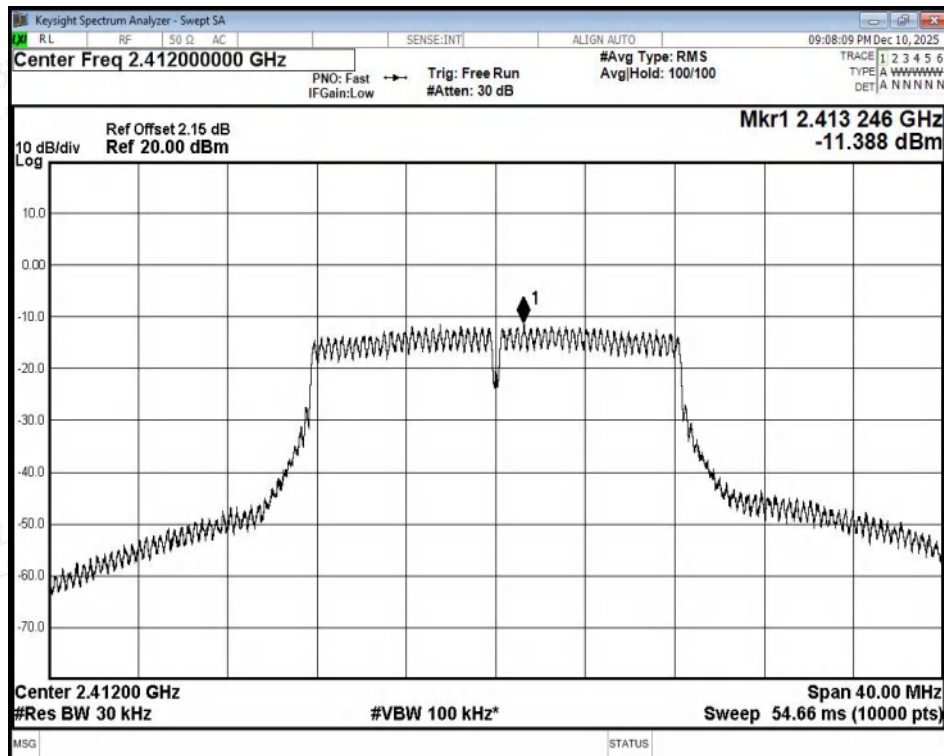
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

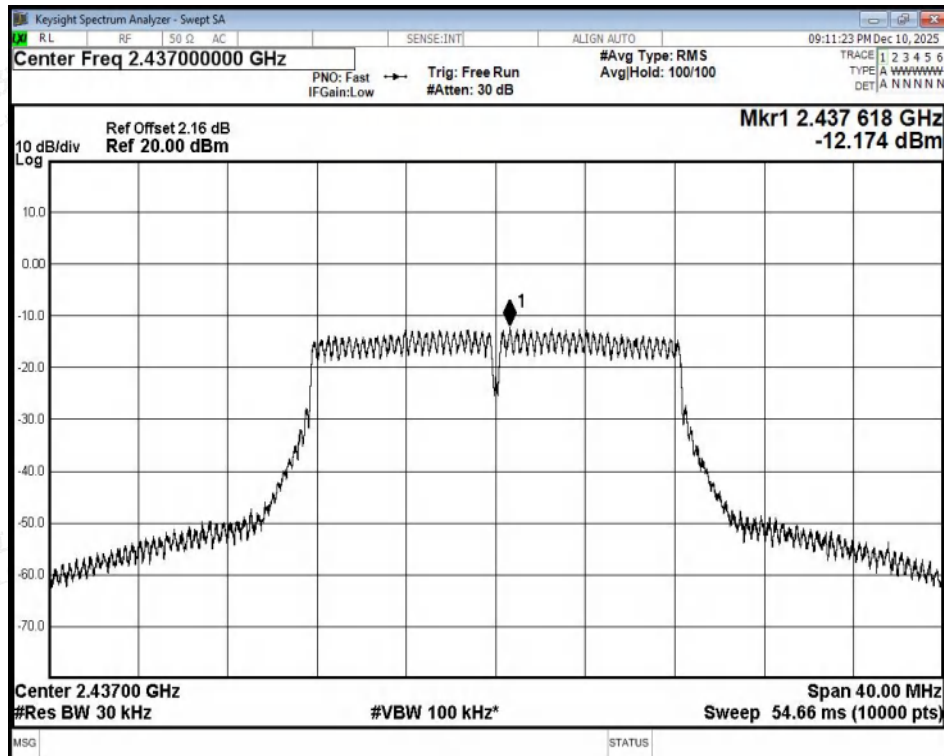


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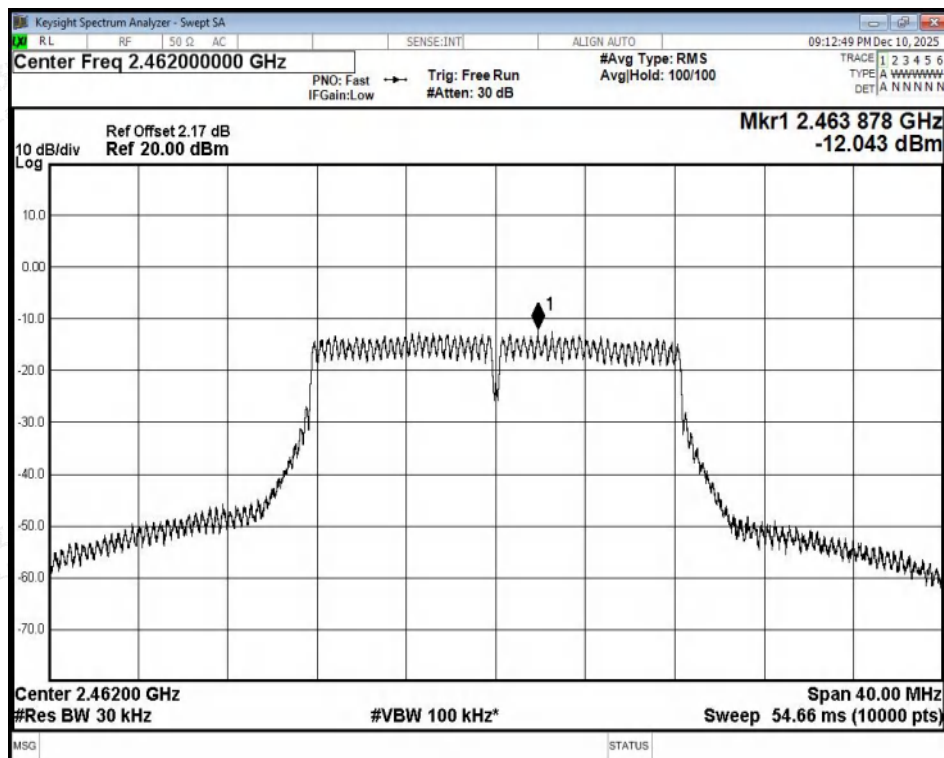
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

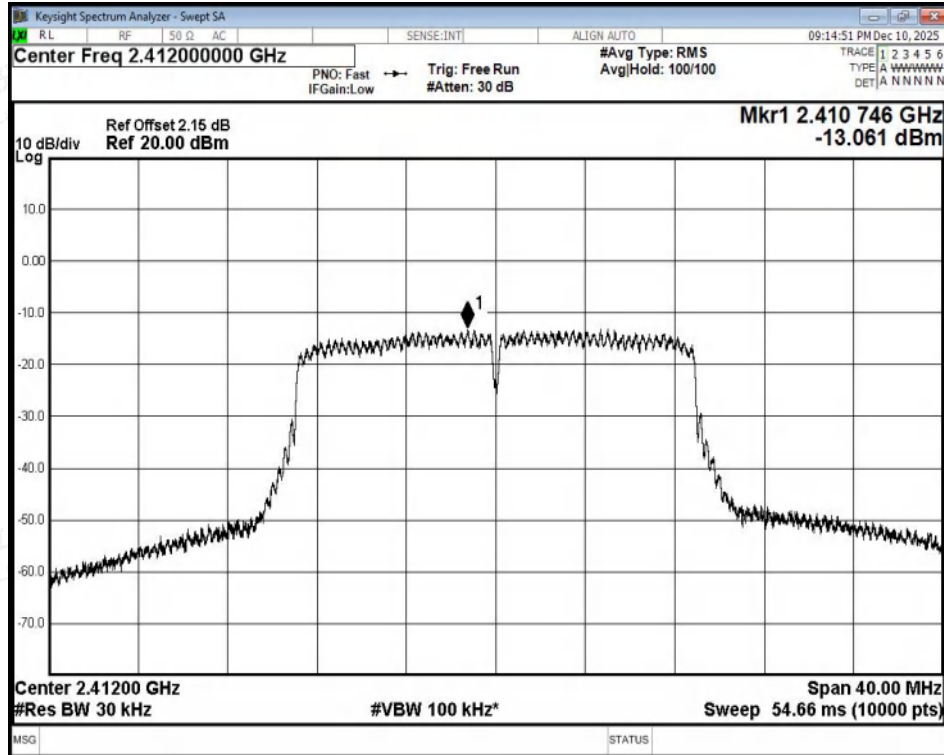


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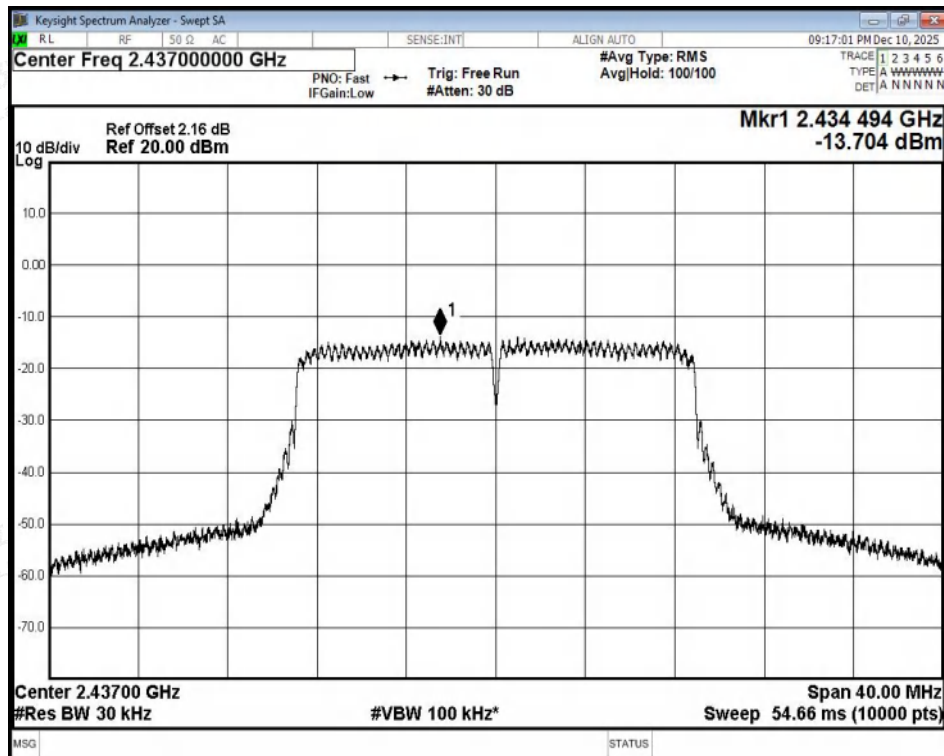
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

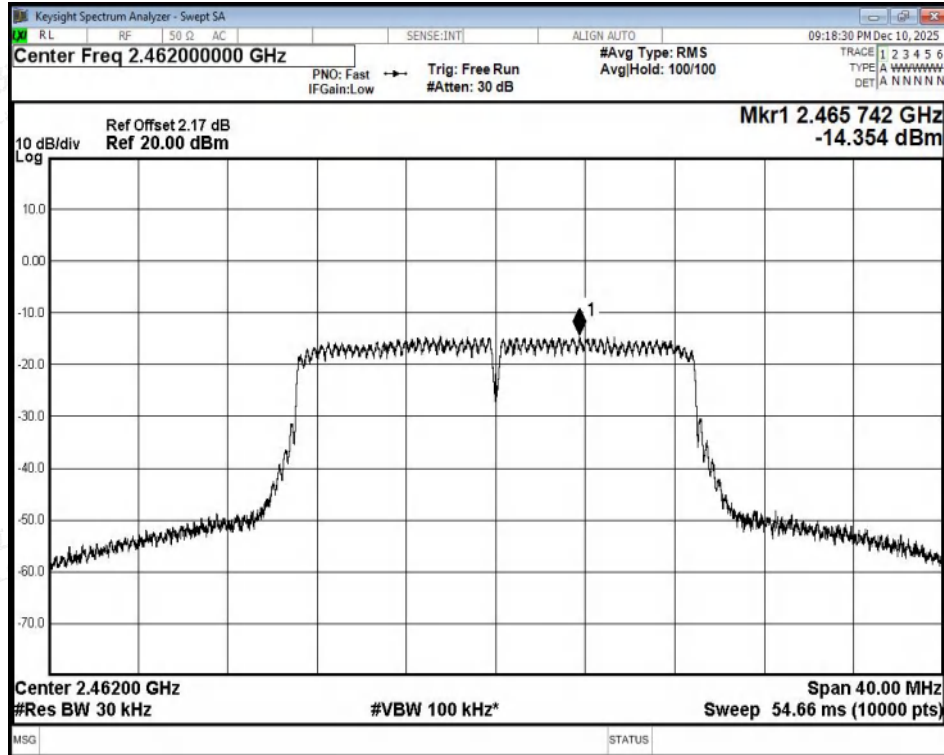


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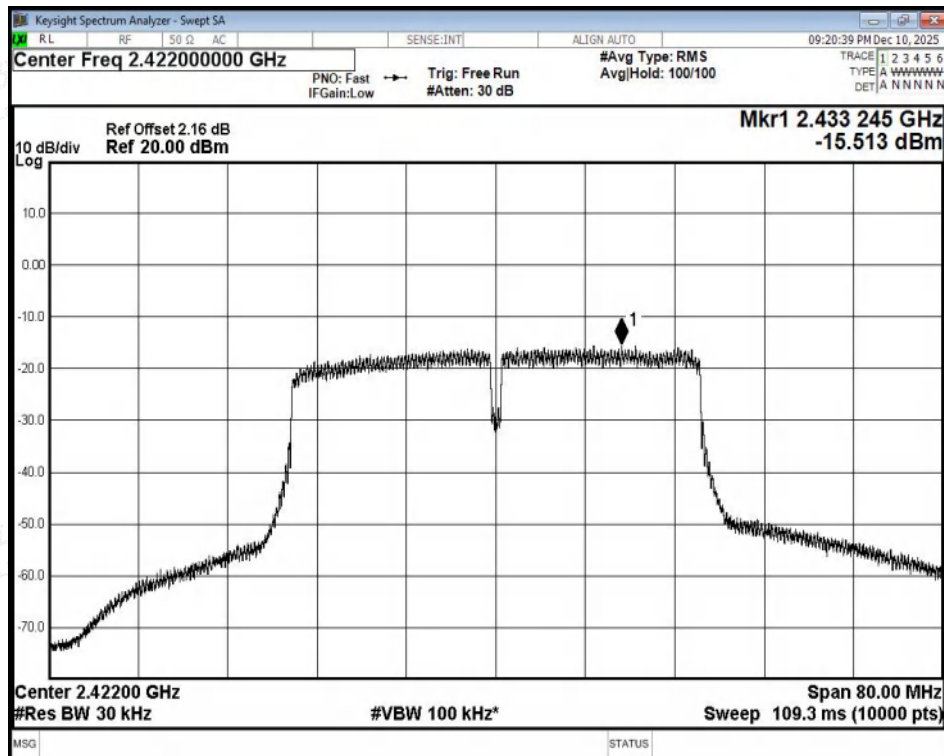
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PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1

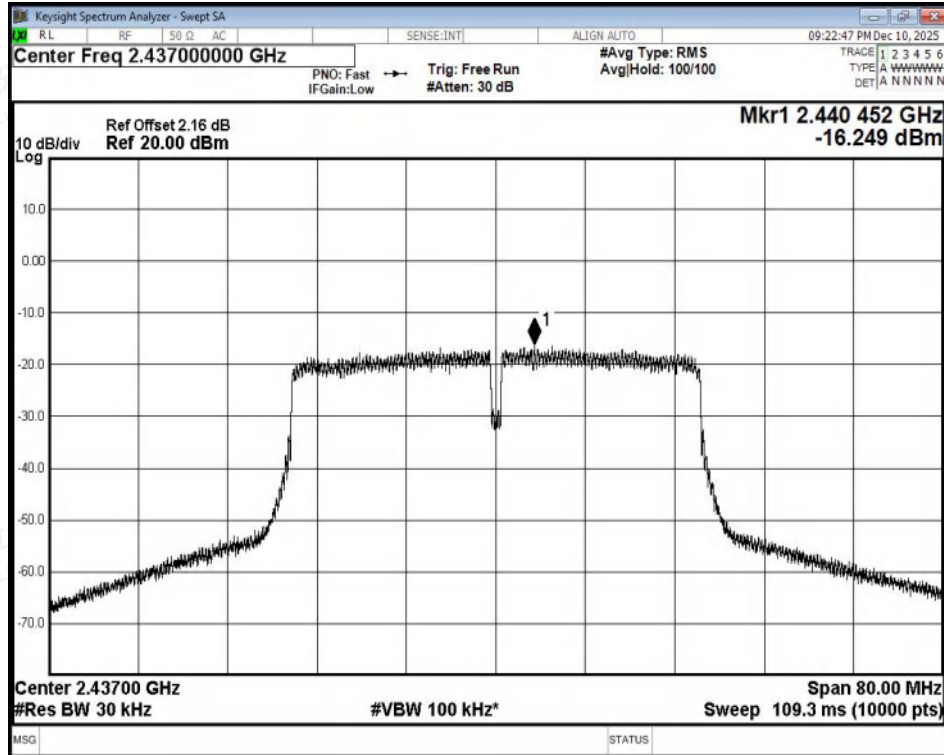


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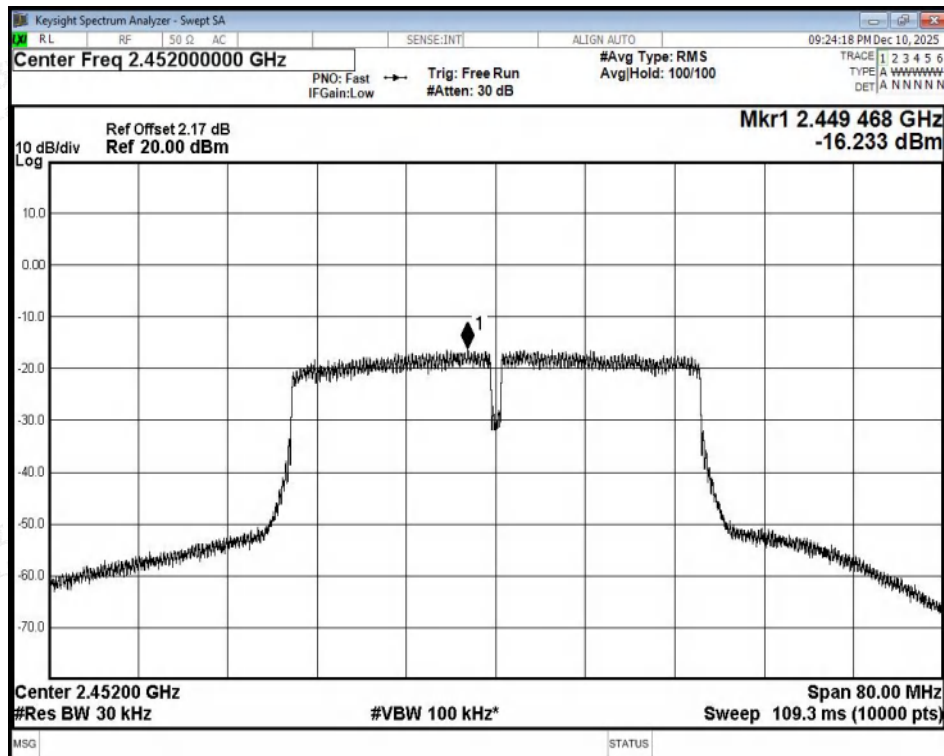
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PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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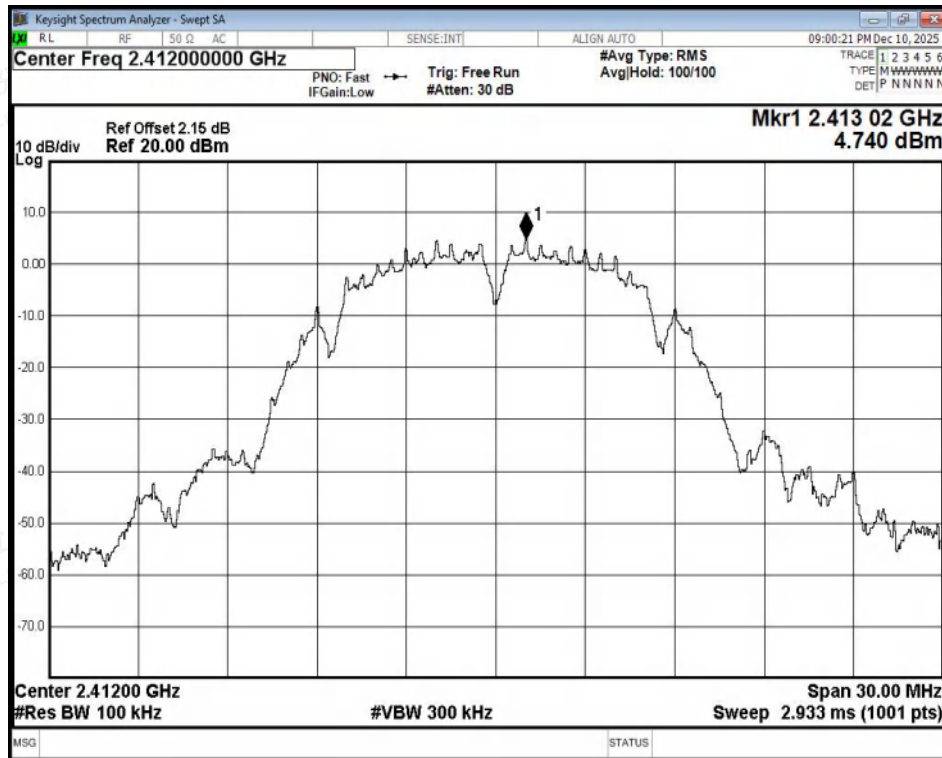
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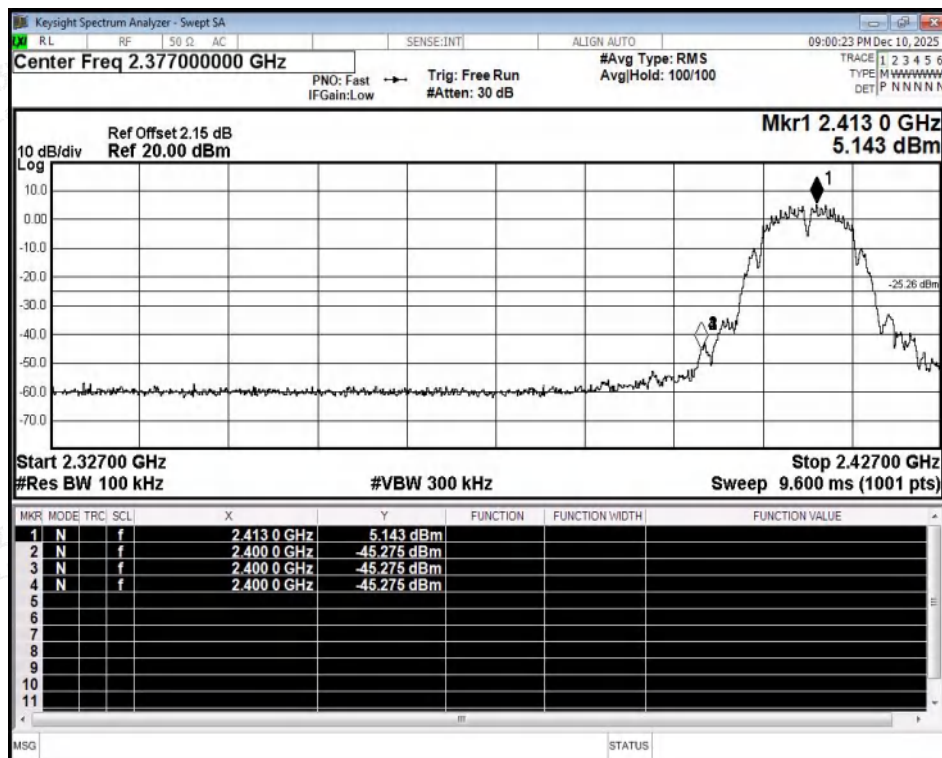
A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.01	-30	Pass
NVNT	b	2462	Ant1	-58	-30	Pass
NVNT	g	2412	Ant1	-32.76	-30	Pass
NVNT	g	2462	Ant1	-41.26	-30	Pass
NVNT	n20	2412	Ant1	-32.26	-30	Pass
NVNT	n20	2462	Ant1	-40.15	-30	Pass
NVNT	n40	2422	Ant1	-33.44	-30	Pass
NVNT	n40	2452	Ant1	-37.33	-30	Pass





Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

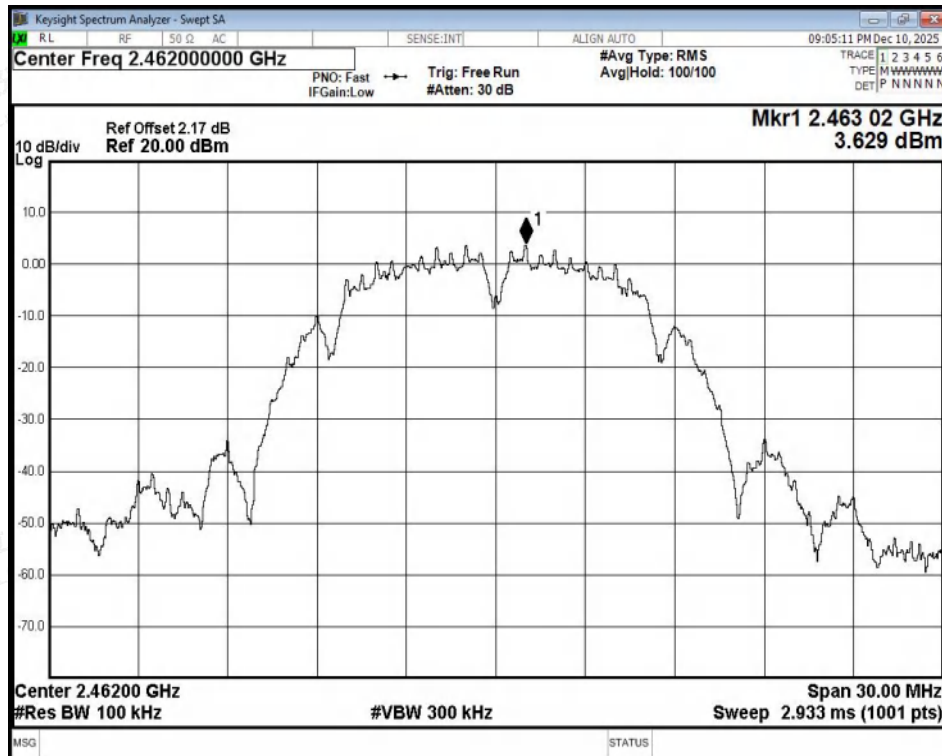


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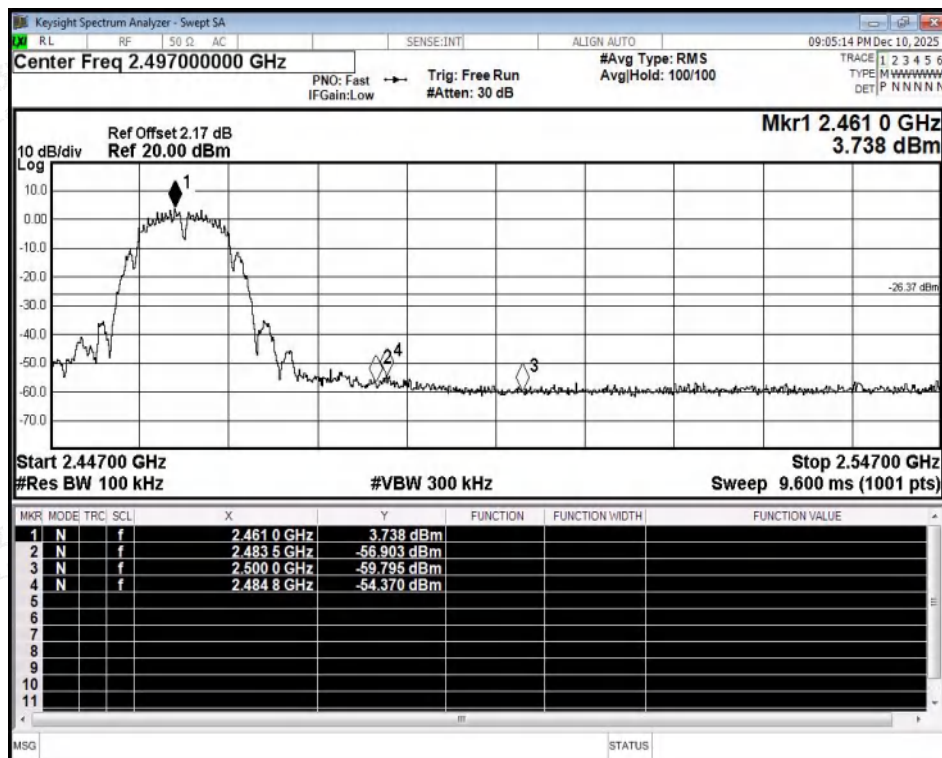
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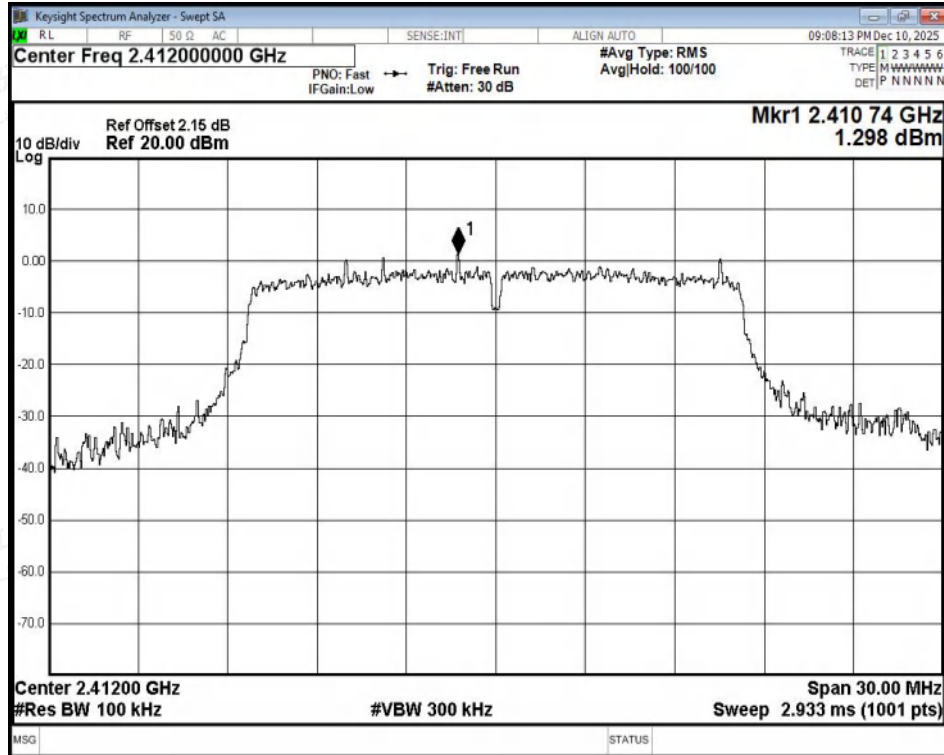


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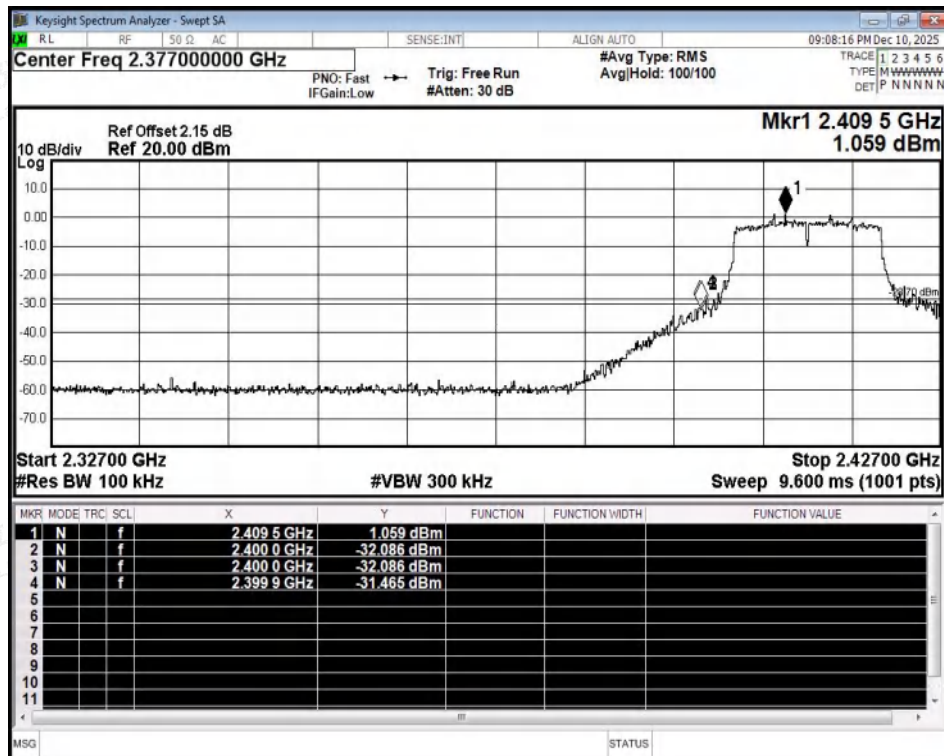
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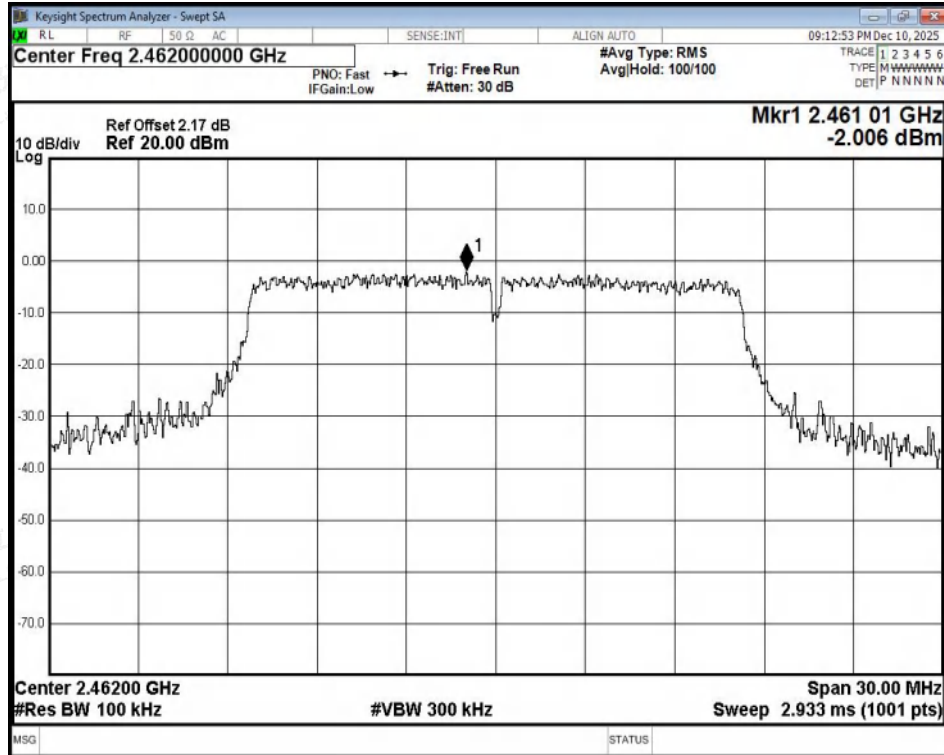


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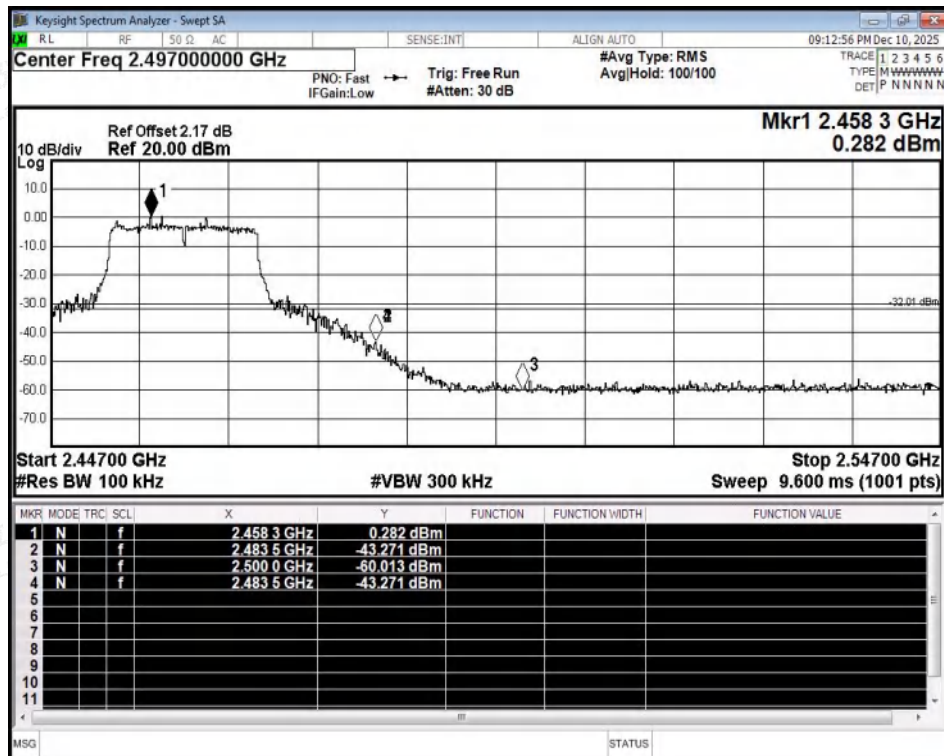
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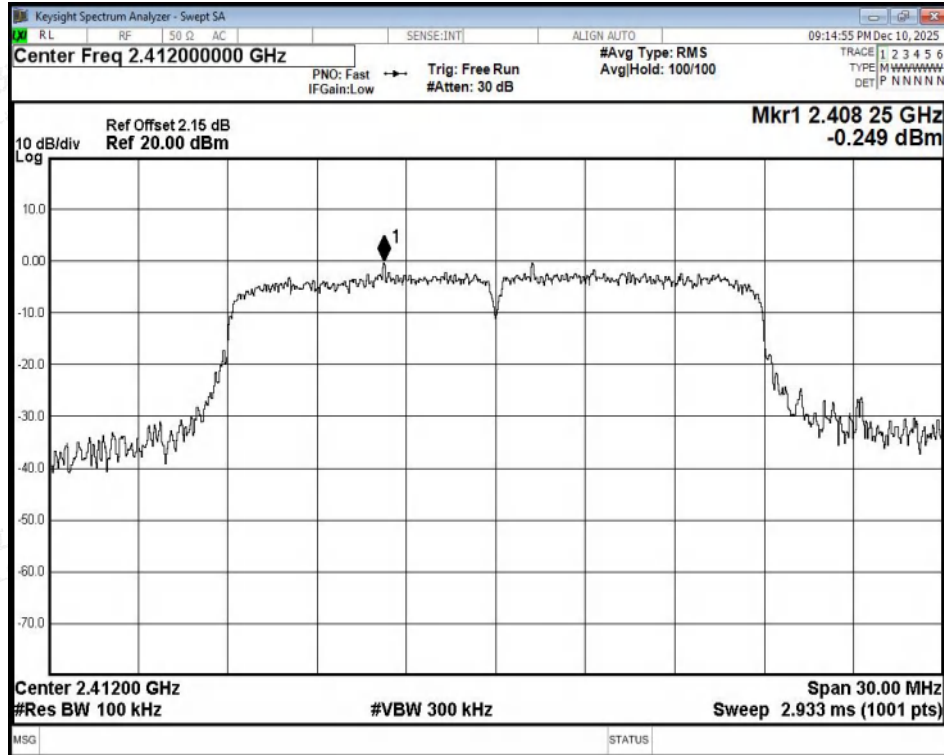


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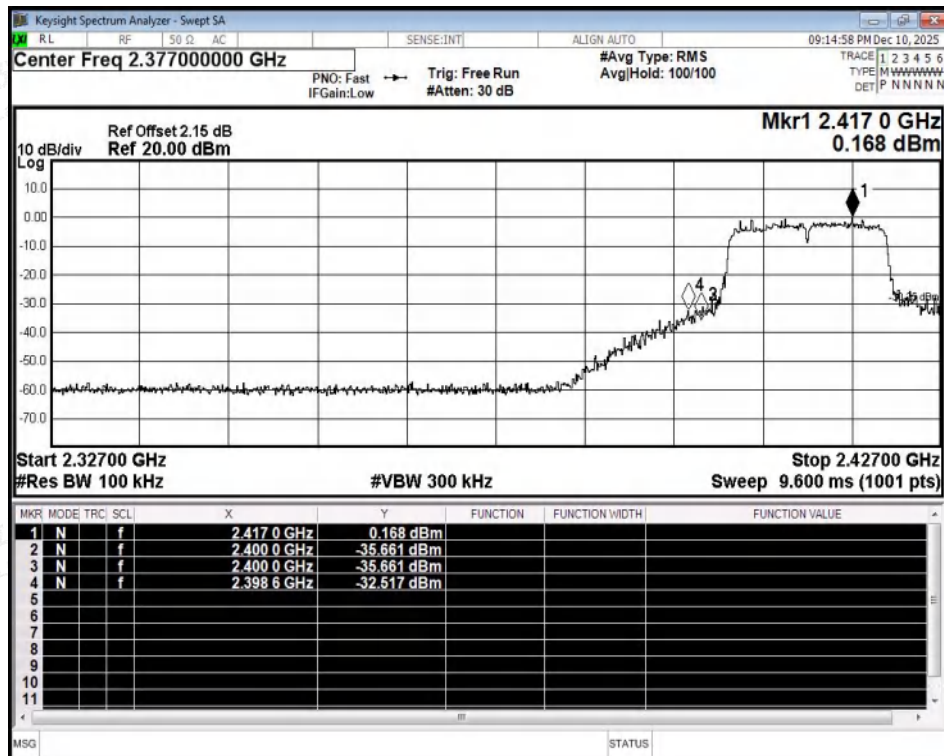
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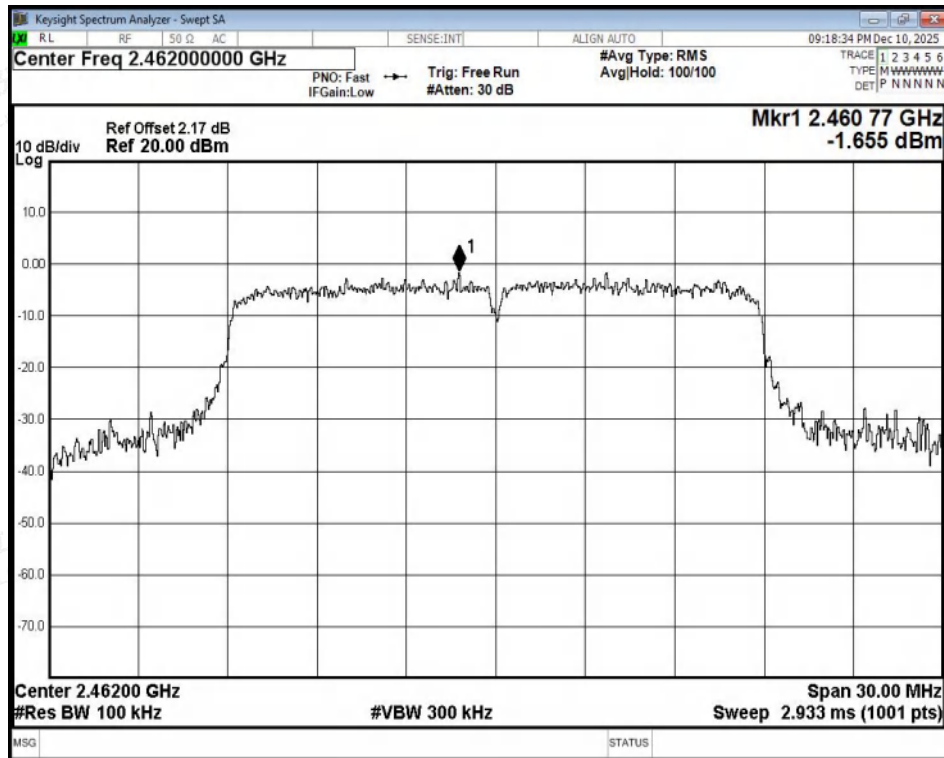


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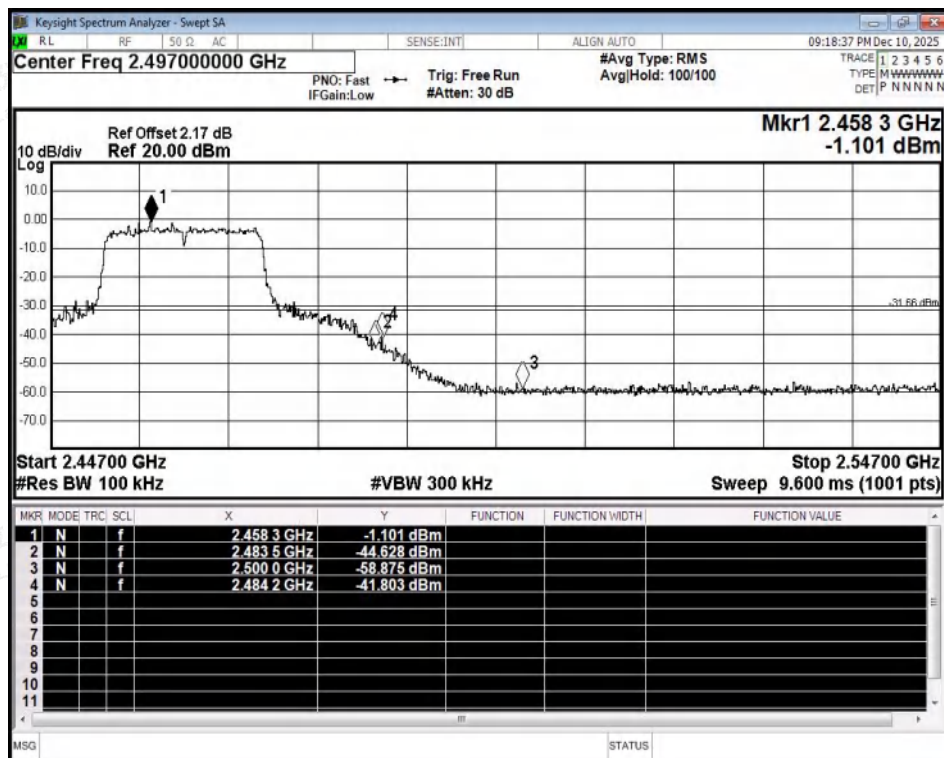
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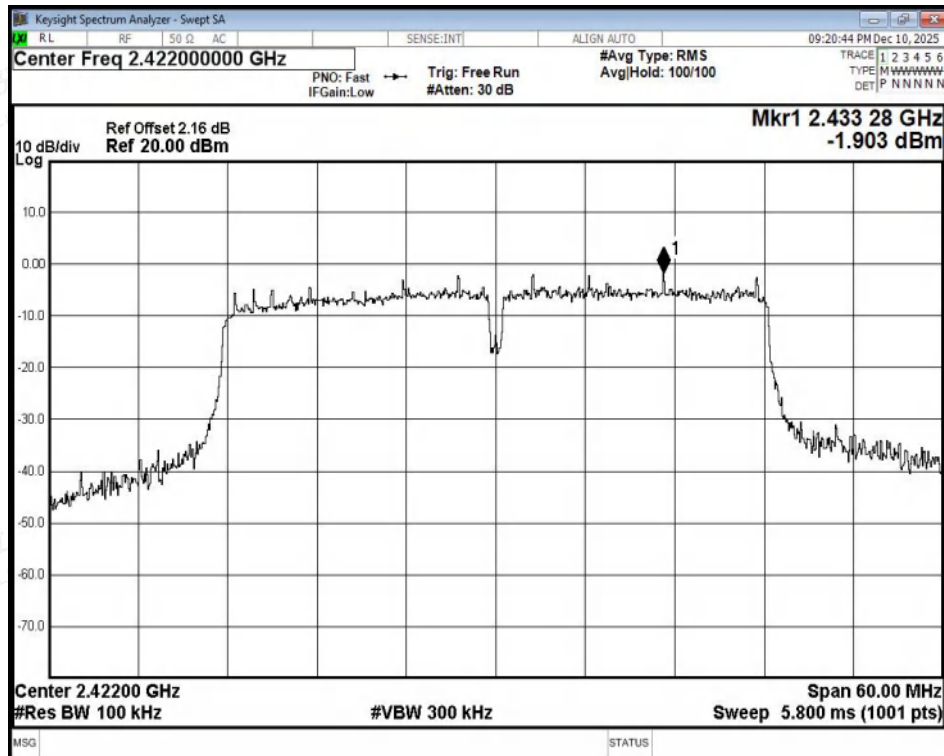


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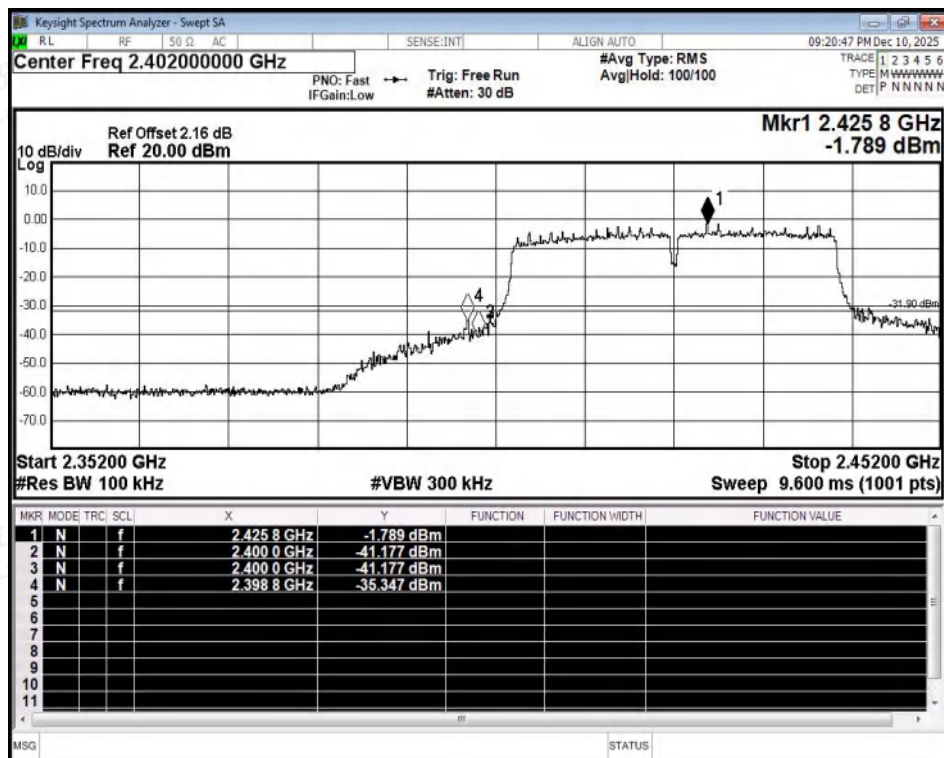
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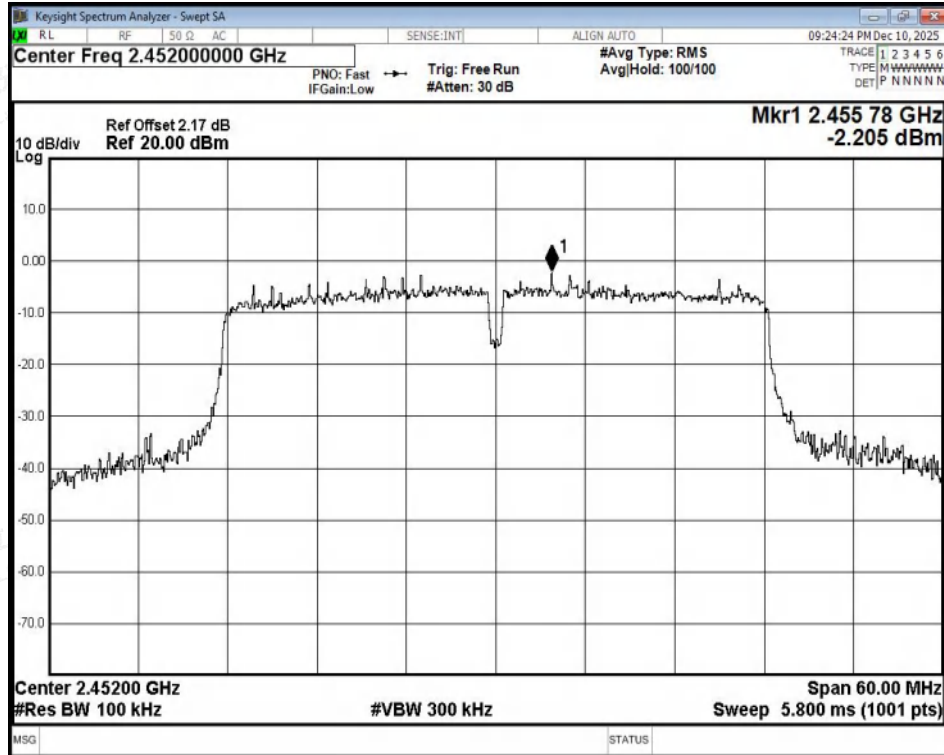


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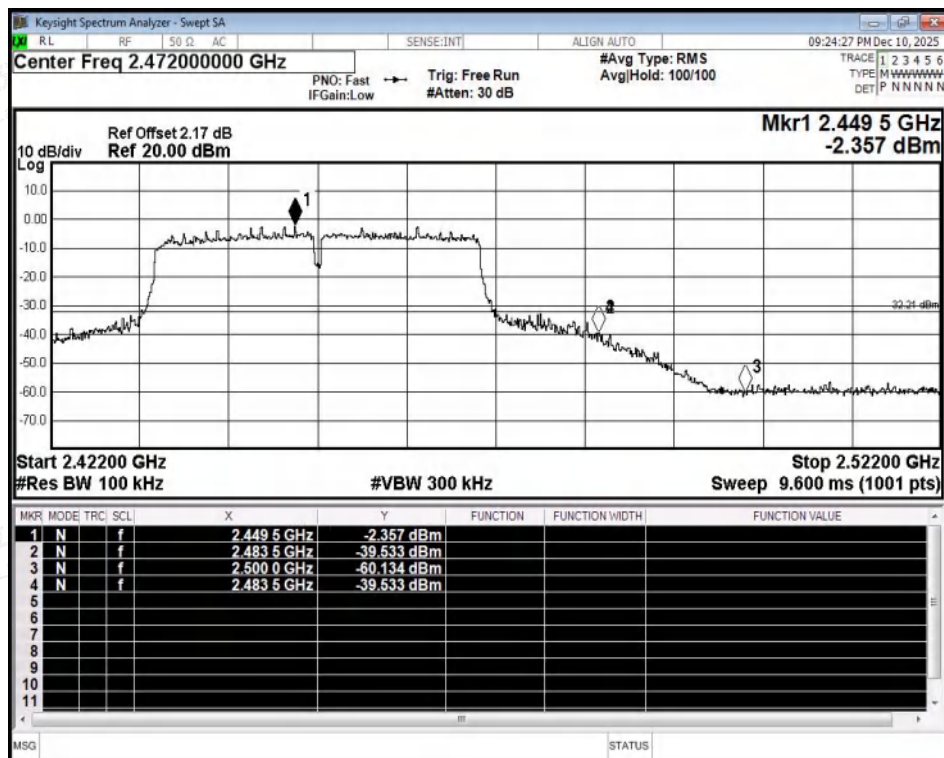
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.91	-30	Pass
NVNT	b	2437	Ant1	-42.47	-30	Pass
NVNT	b	2462	Ant1	-41.21	-30	Pass
NVNT	g	2412	Ant1	-39.4	-30	Pass
NVNT	g	2437	Ant1	-37.36	-30	Pass
NVNT	g	2462	Ant1	-38.38	-30	Pass
NVNT	n20	2412	Ant1	-38.78	-30	Pass
NVNT	n20	2437	Ant1	-37.18	-30	Pass
NVNT	n20	2462	Ant1	-37.71	-30	Pass
NVNT	n40	2422	Ant1	-36.25	-30	Pass
NVNT	n40	2437	Ant1	-35.86	-30	Pass
NVNT	n40	2452	Ant1	-35.71	-30	Pass

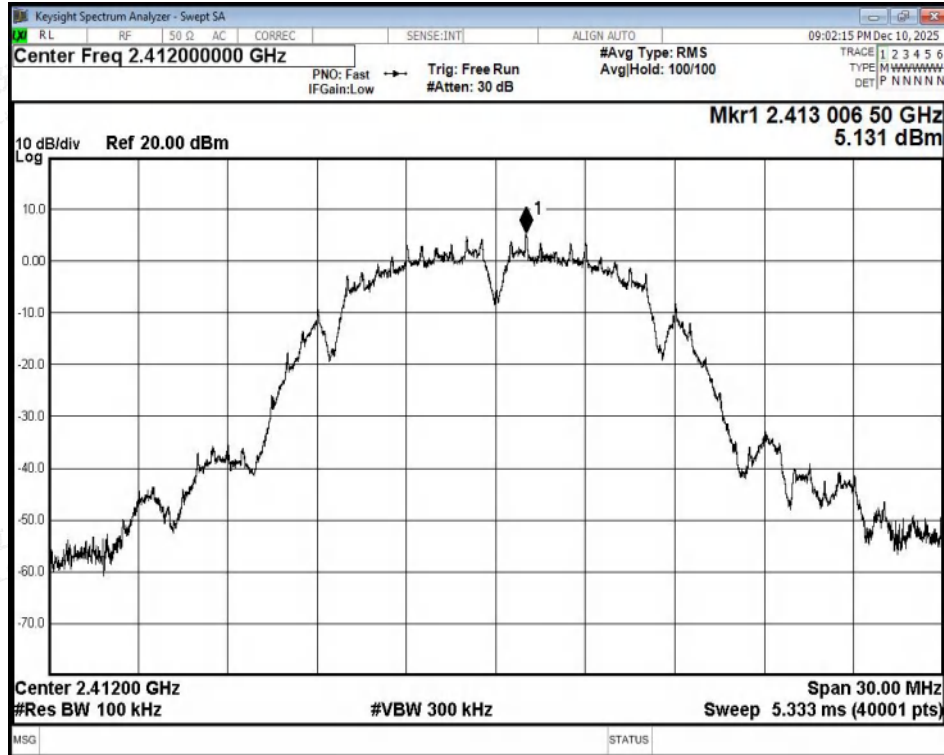


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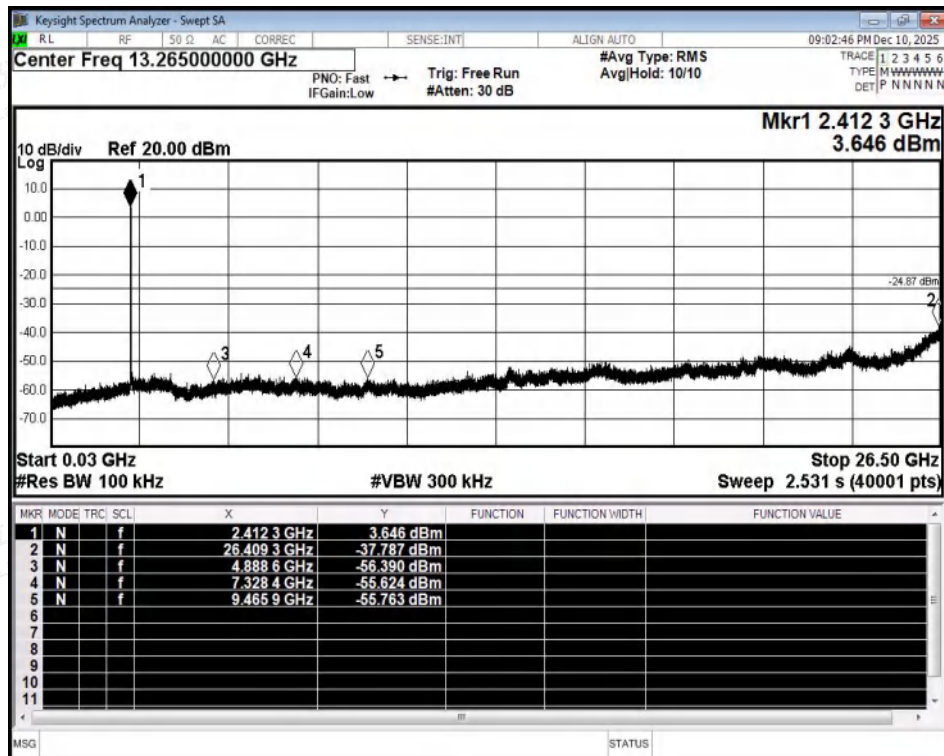
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

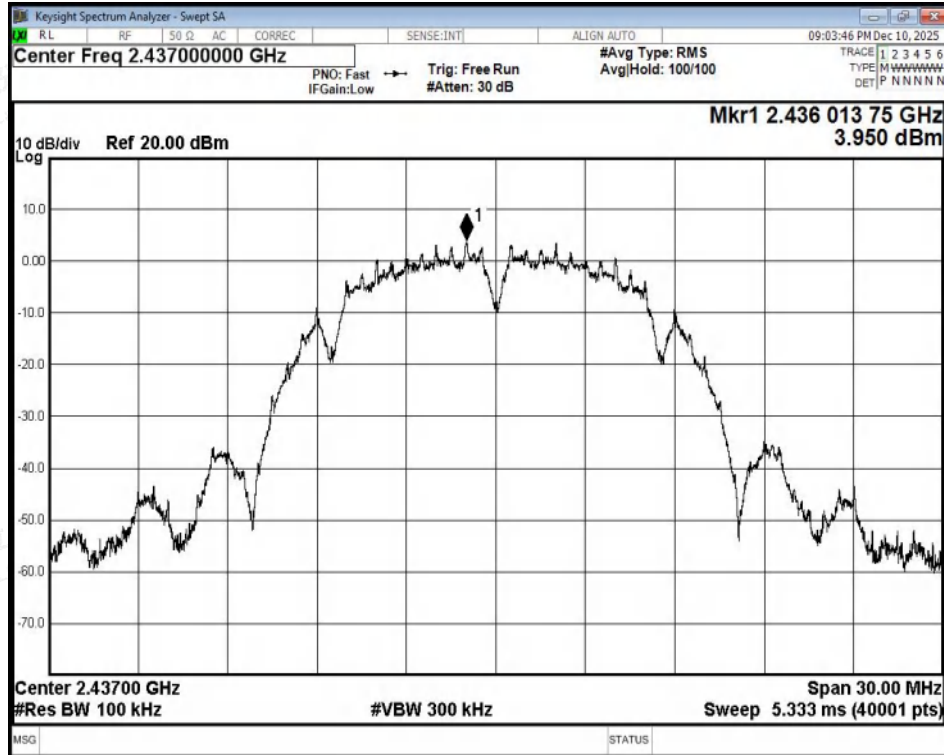


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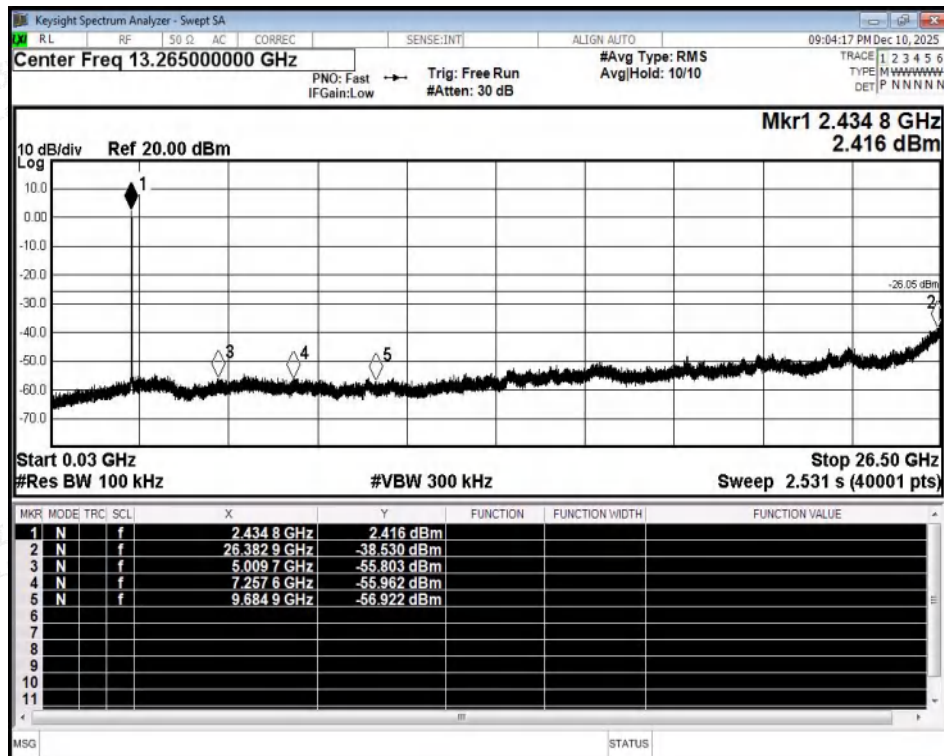
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

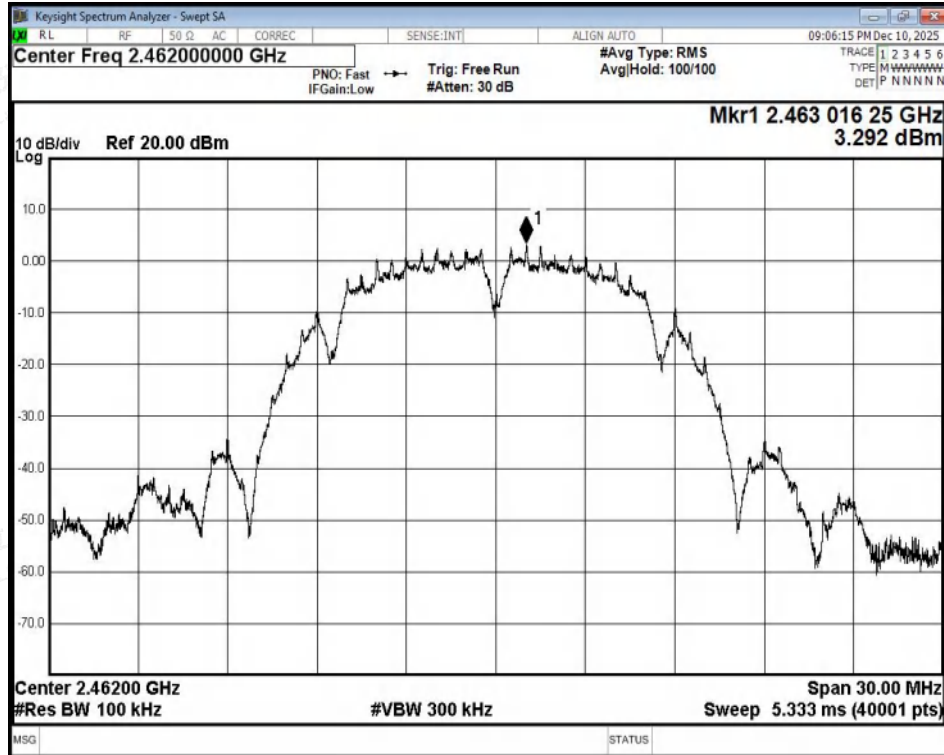


Shenzhen LCS Compliance Testing Laboratory Ltd.

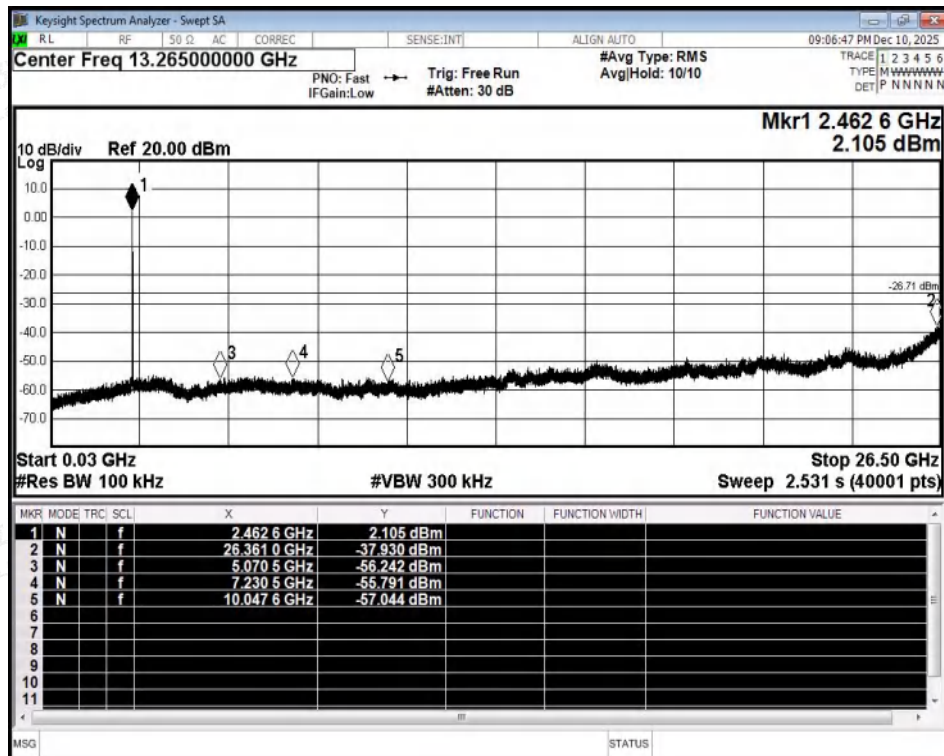
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission

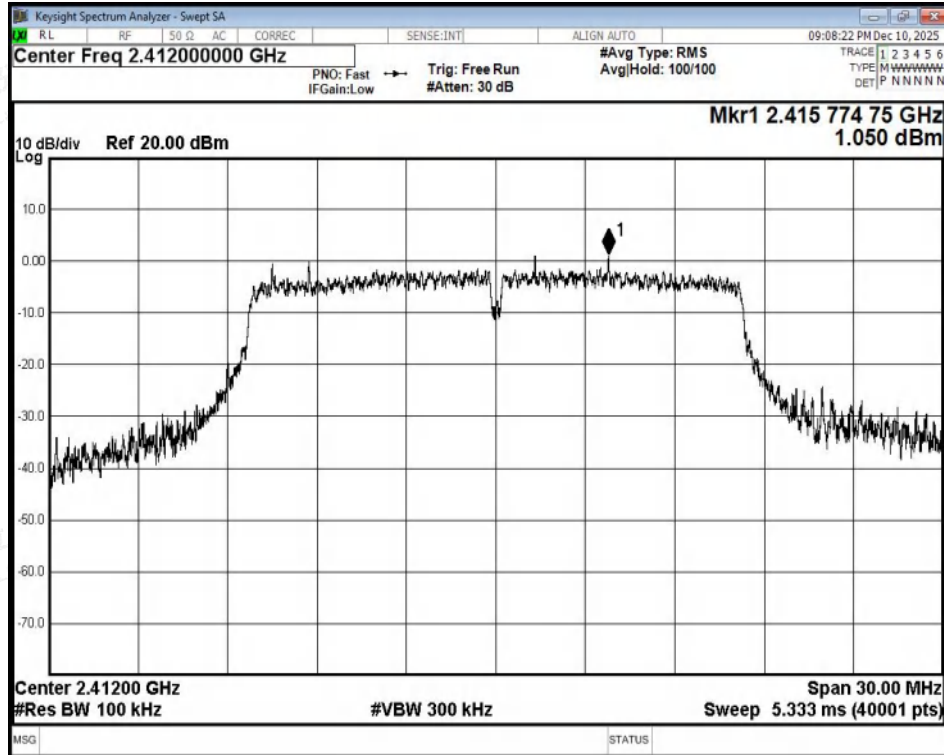


Shenzhen LCS Compliance Testing Laboratory Ltd.

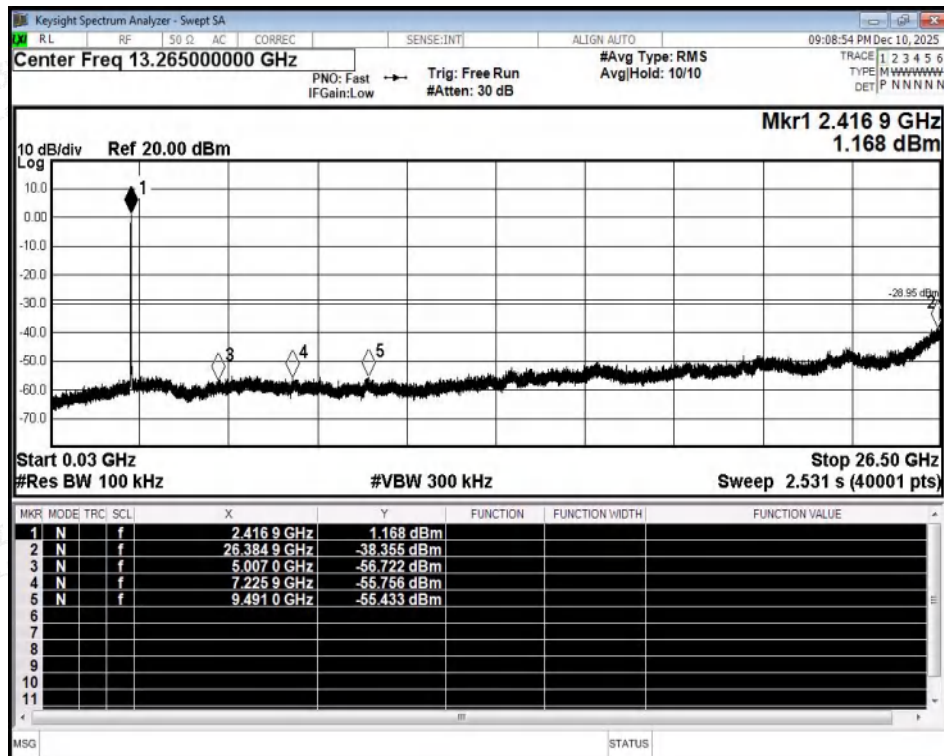
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

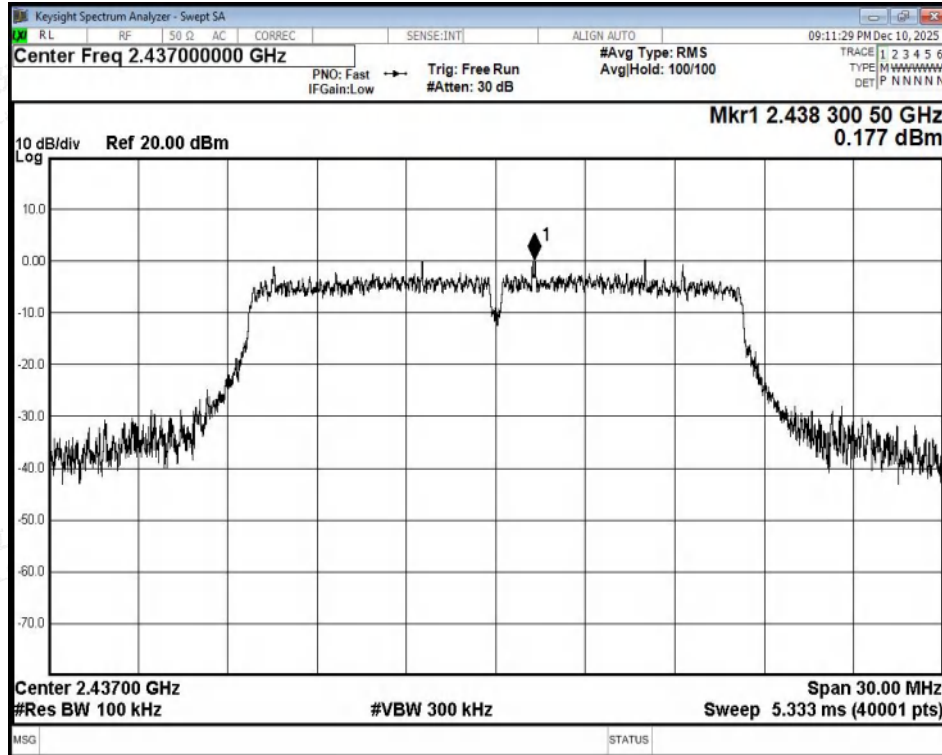


Shenzhen LCS Compliance Testing Laboratory Ltd.

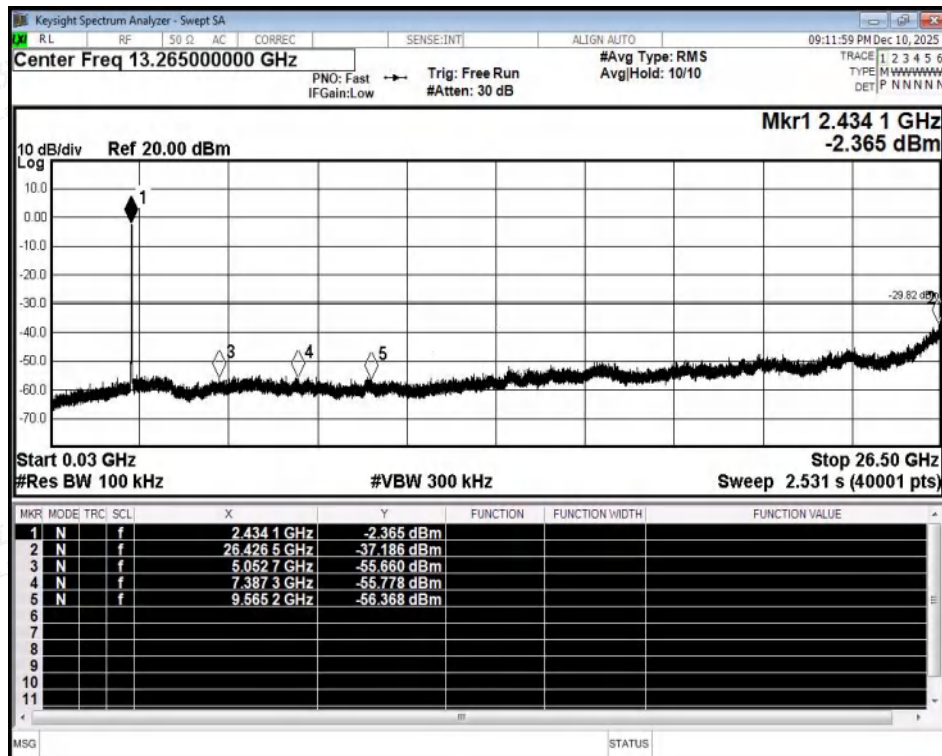
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

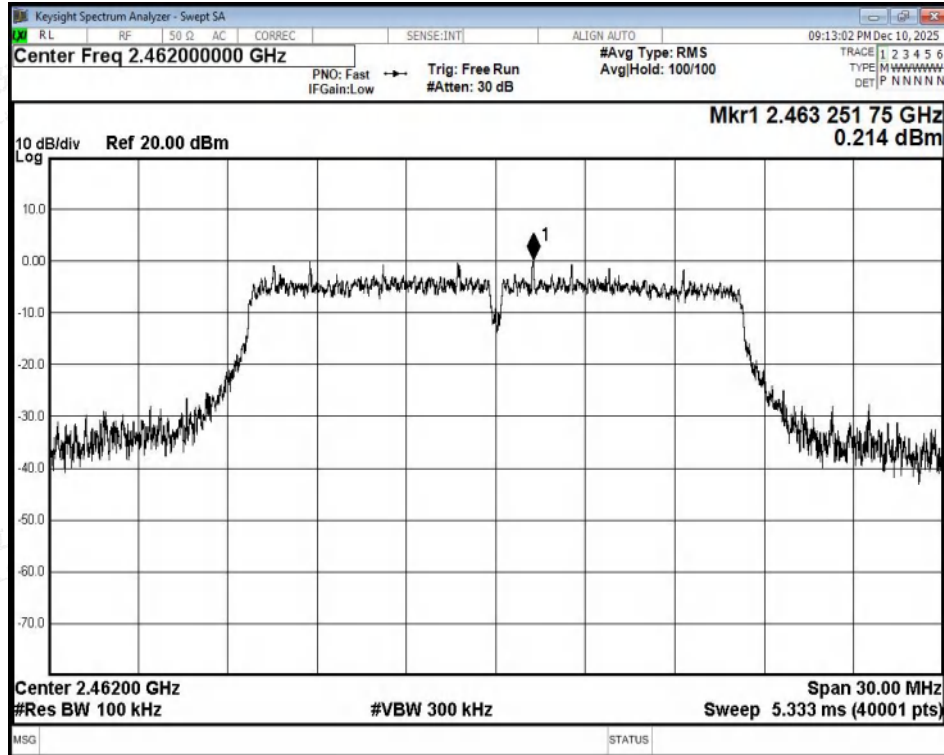


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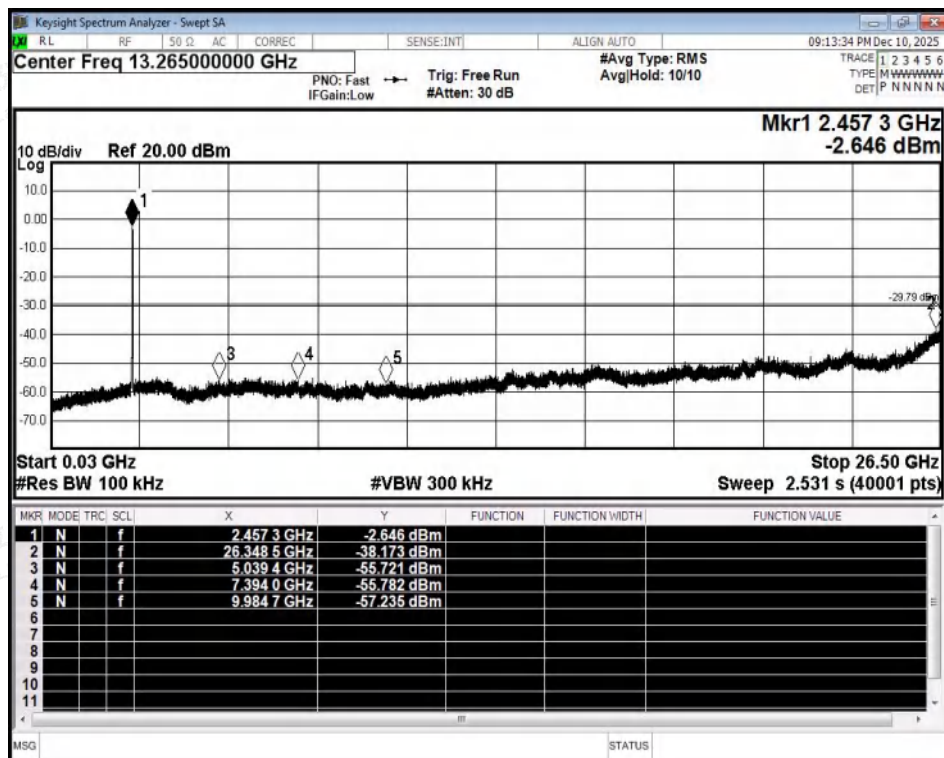
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission

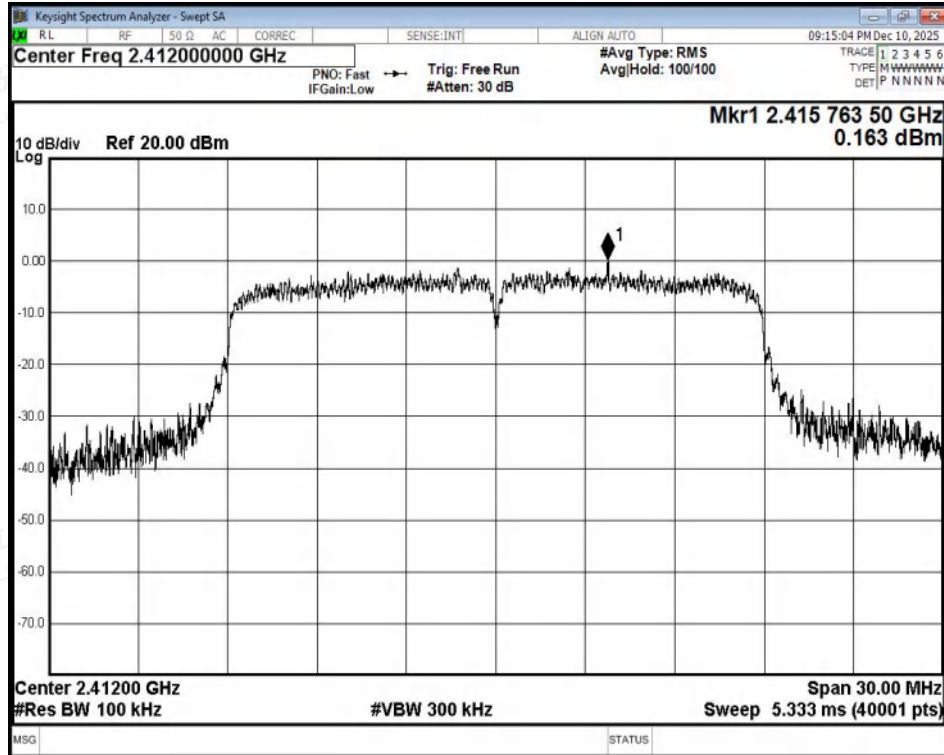


Shenzhen LCS Compliance Testing Laboratory Ltd.

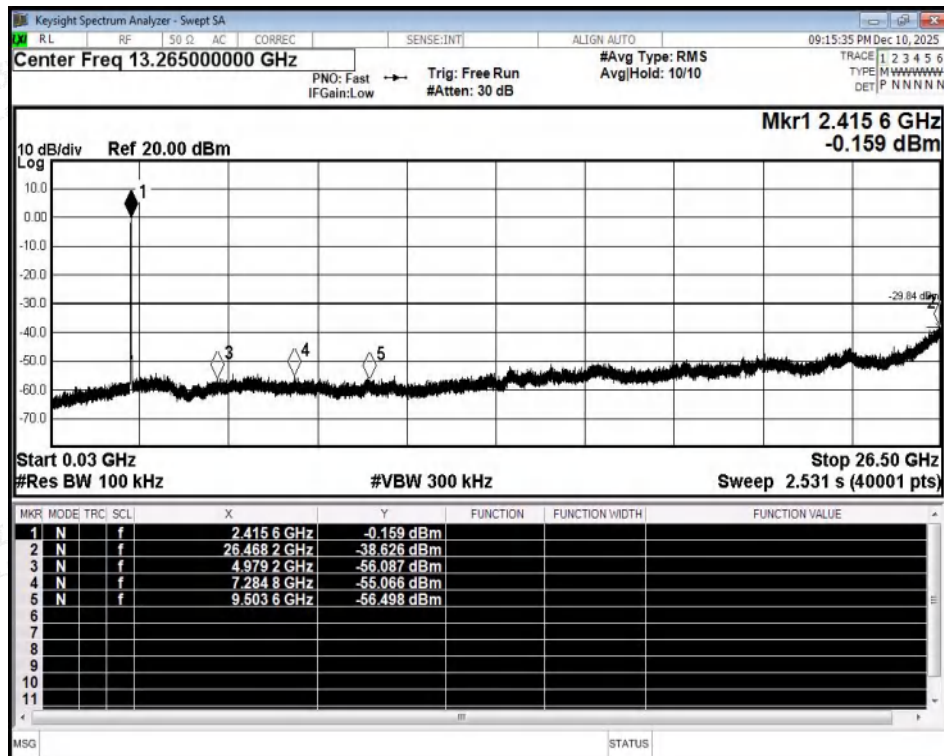
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission

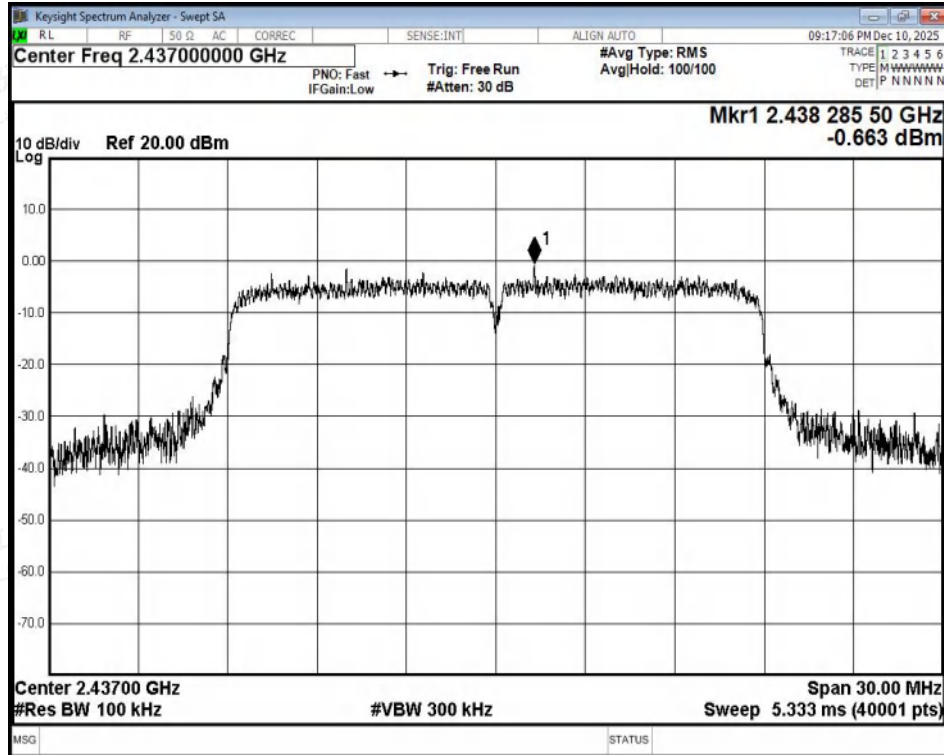


Shenzhen LCS Compliance Testing Laboratory Ltd.

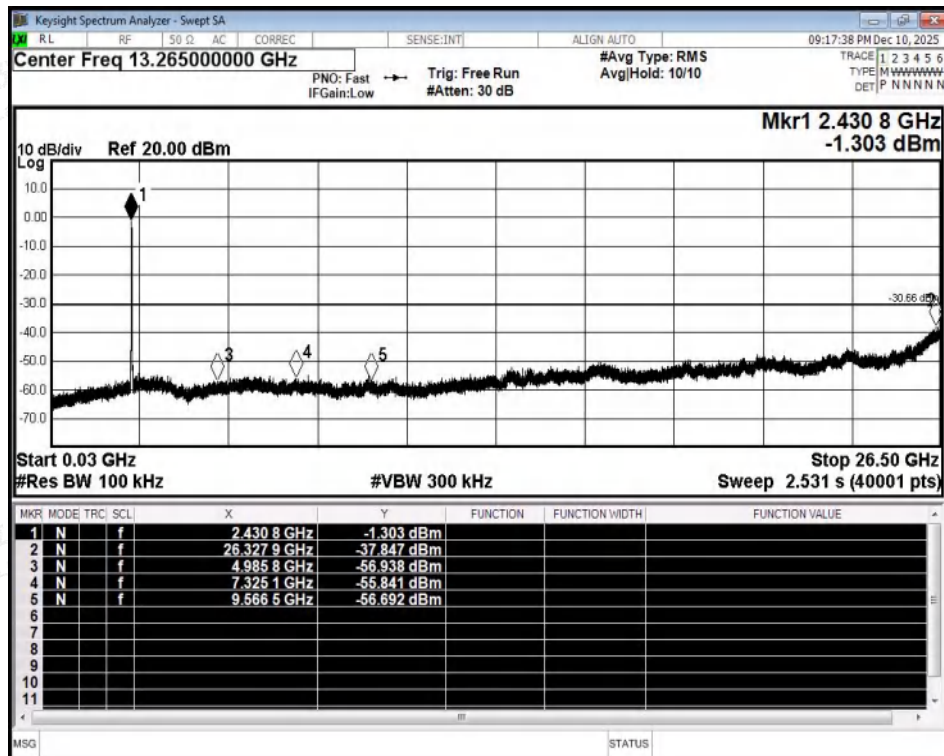
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission

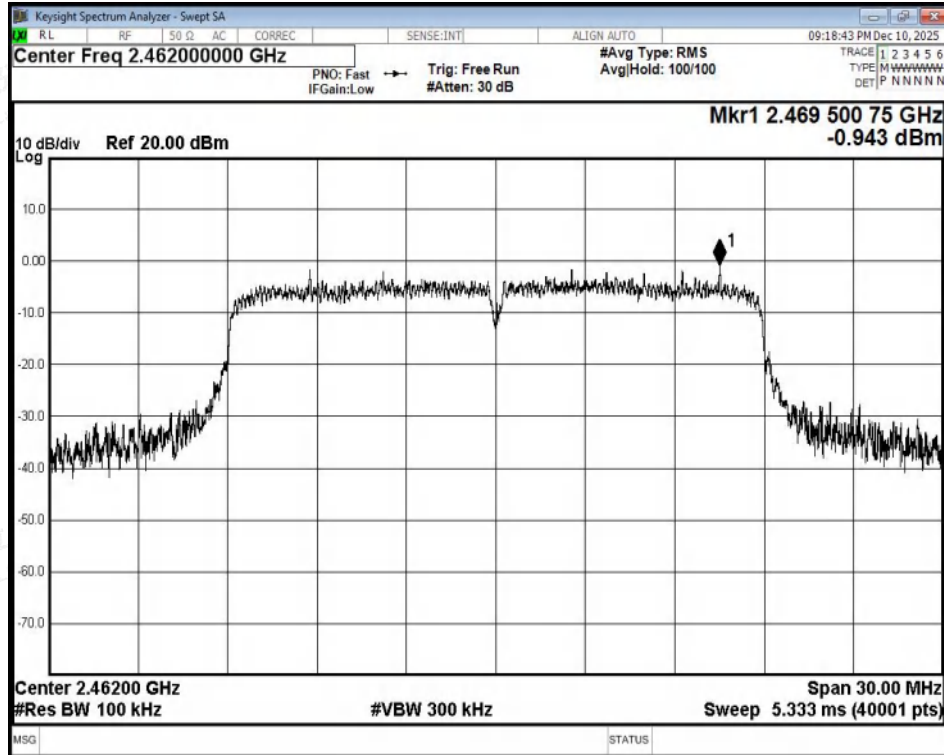


Shenzhen LCS Compliance Testing Laboratory Ltd.

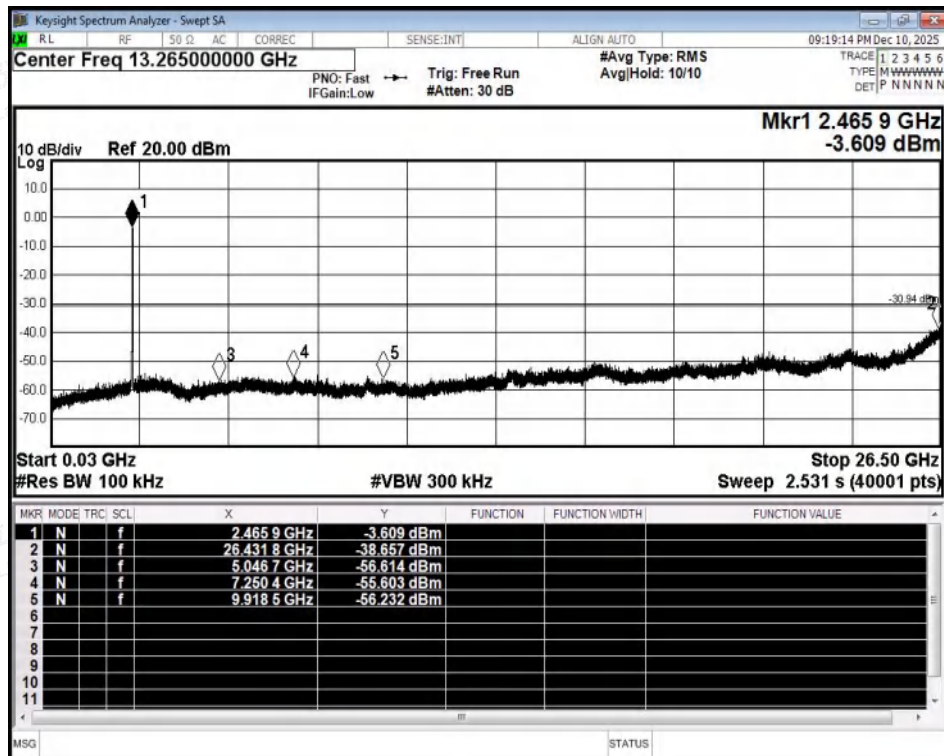
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

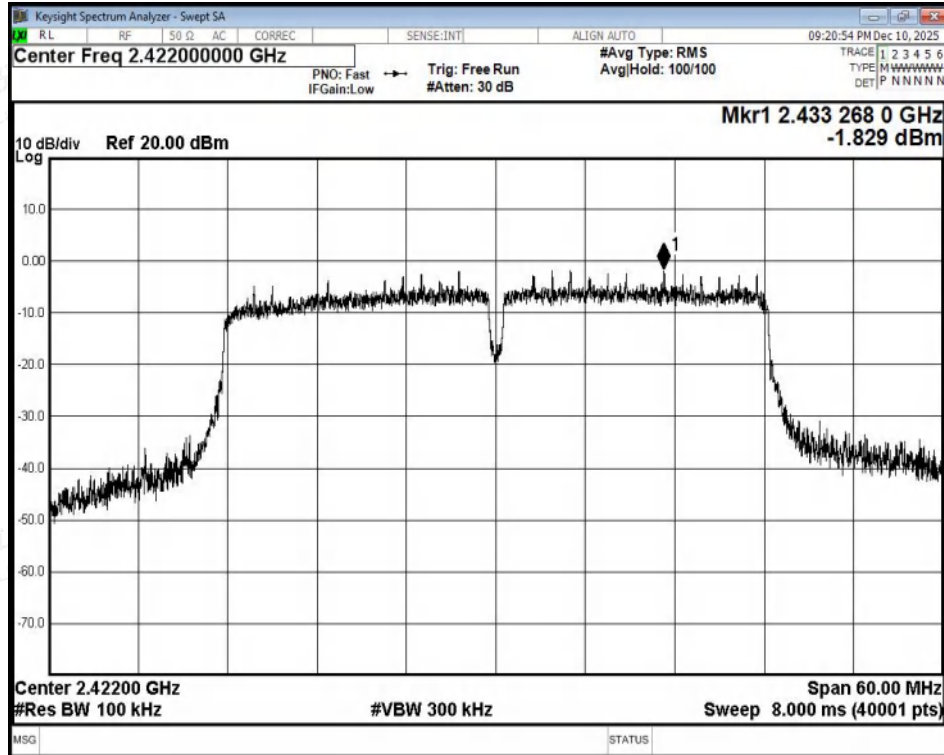


Shenzhen LCS Compliance Testing Laboratory Ltd.

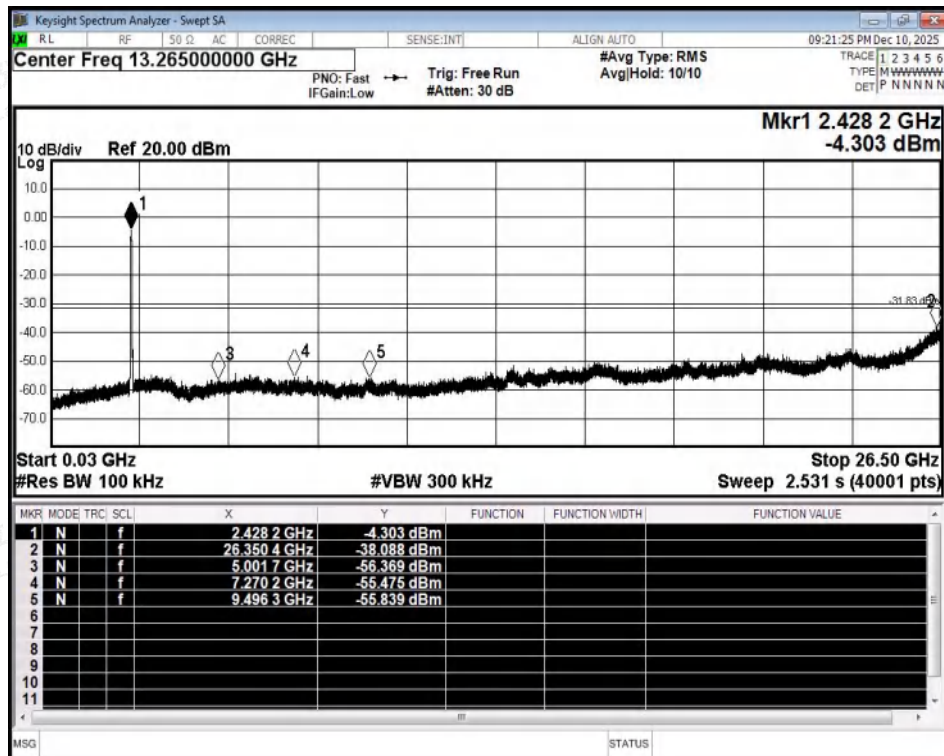
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission

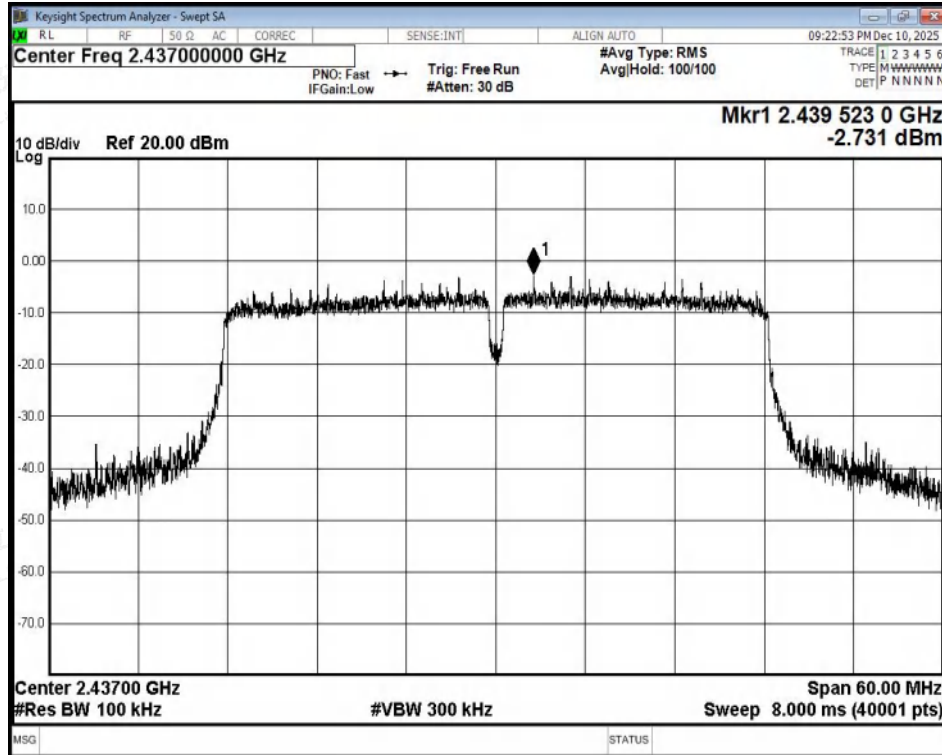


Shenzhen LCS Compliance Testing Laboratory Ltd.

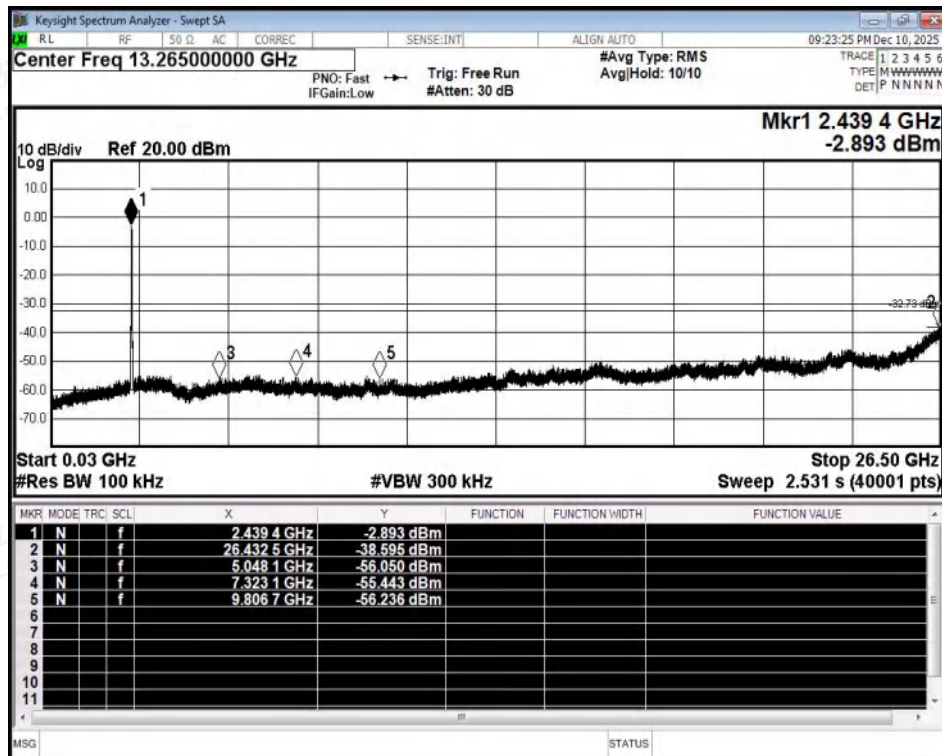
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

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Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission

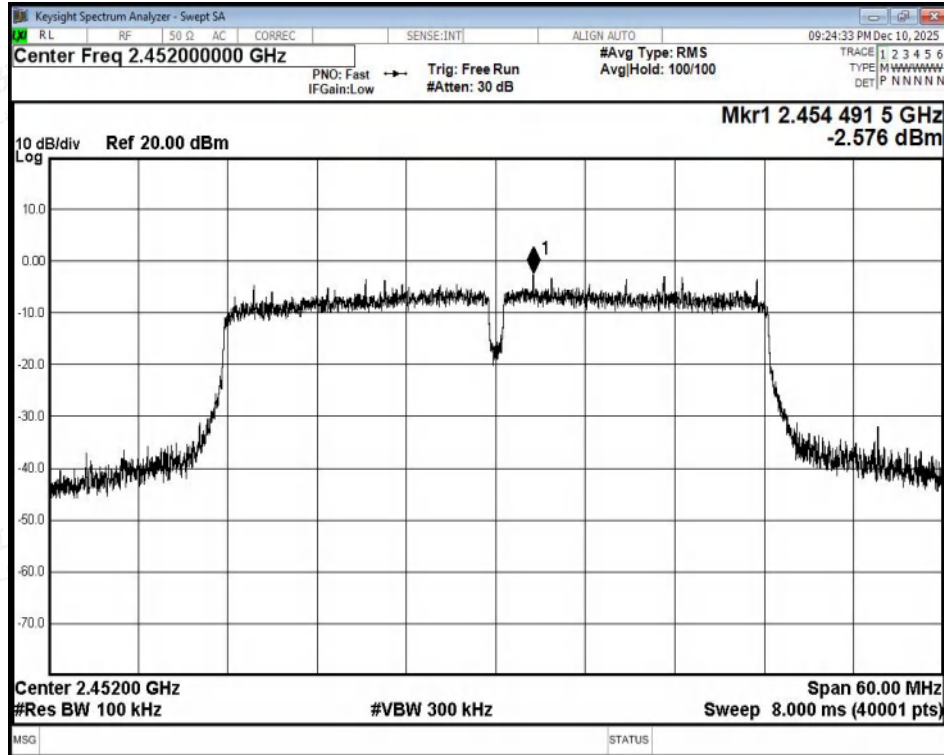


Shenzhen LCS Compliance Testing Laboratory Ltd.

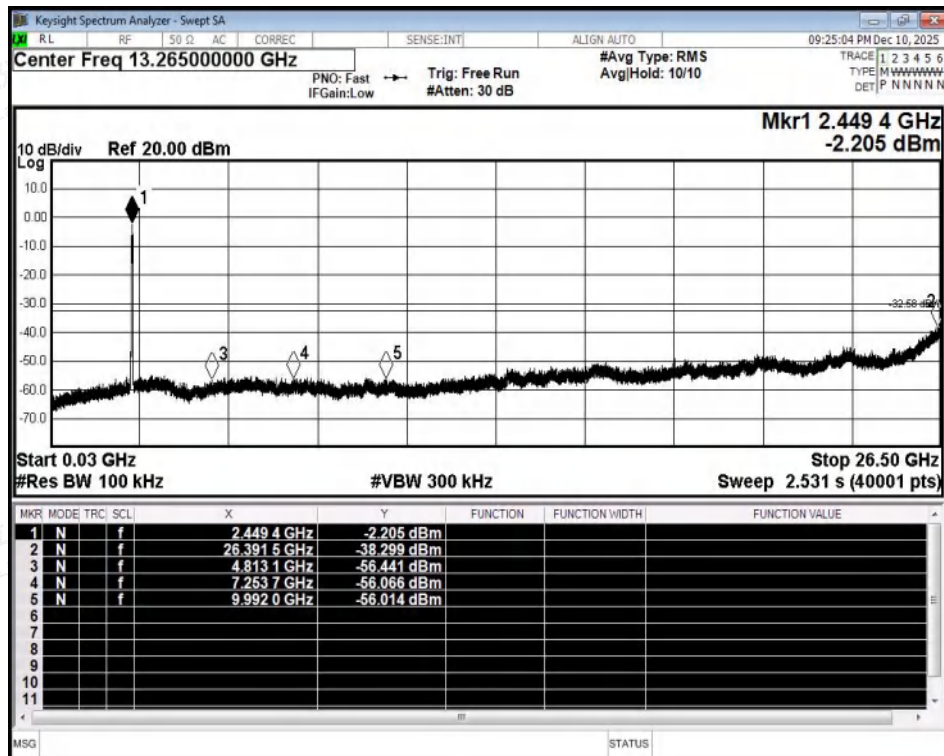
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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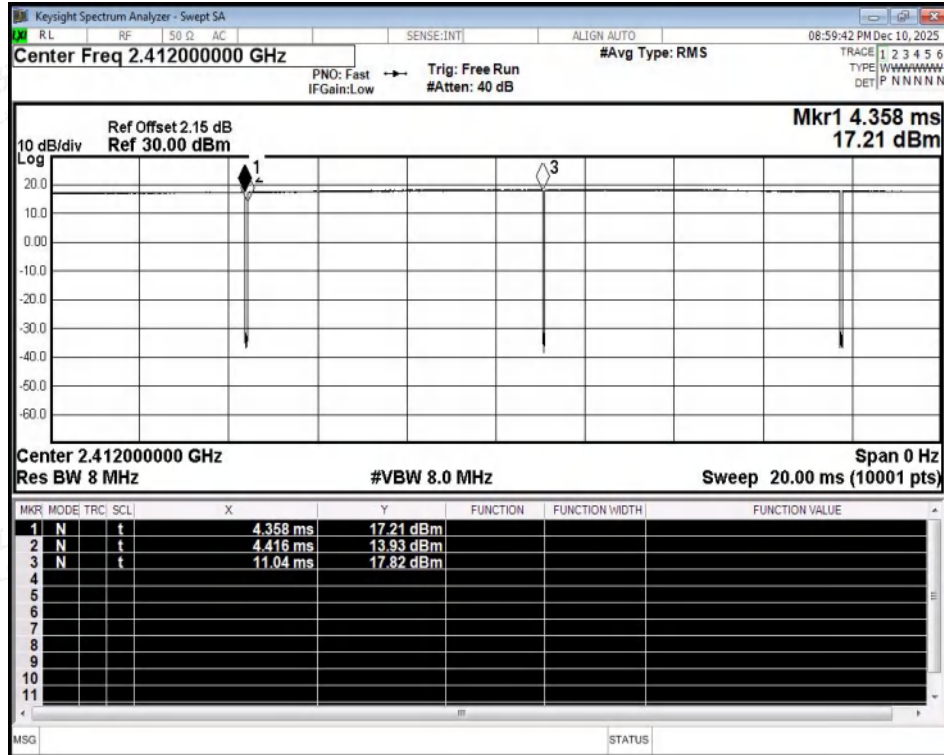


A.6 Duty Cycle

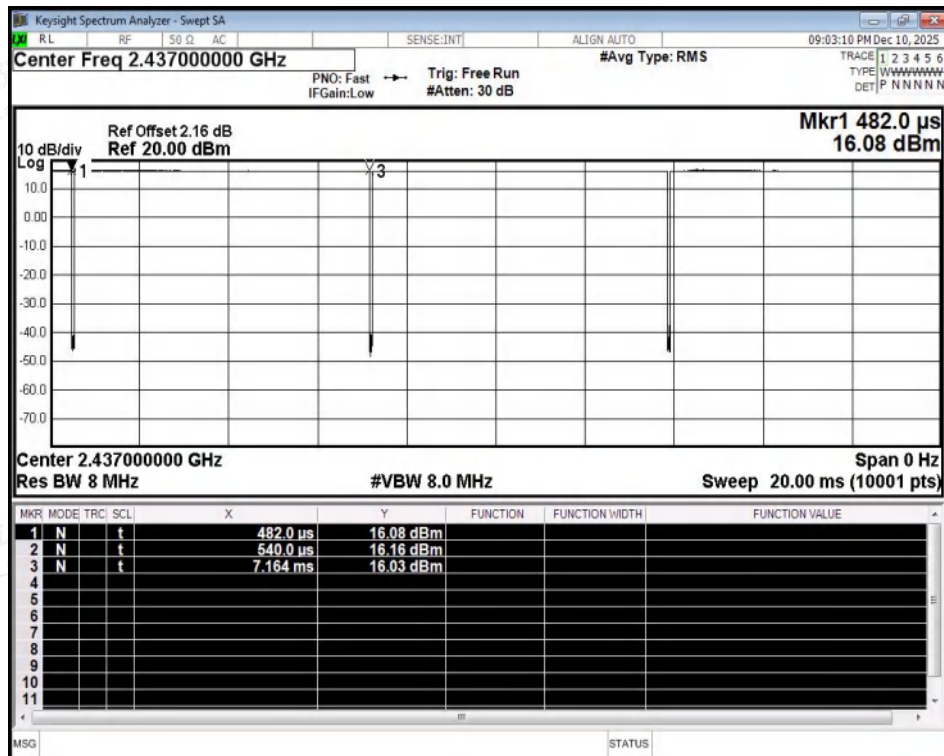
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.13	0.04	0.15
NVNT	b	2437	Ant1	99.13	0.04	0.15
NVNT	b	2462	Ant1	99.13	0.04	0.15
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.68	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.33	0.12	0.44
NVNT	n20	2437	Ant1	97.33	0.12	0.44
NVNT	n20	2462	Ant1	97.33	0.12	0.44
NVNT	n40	2422	Ant1	94.7	0.24	0.9
NVNT	n40	2437	Ant1	94.71	0.24	0.9
NVNT	n40	2452	Ant1	94.7	0.24	0.9



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Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

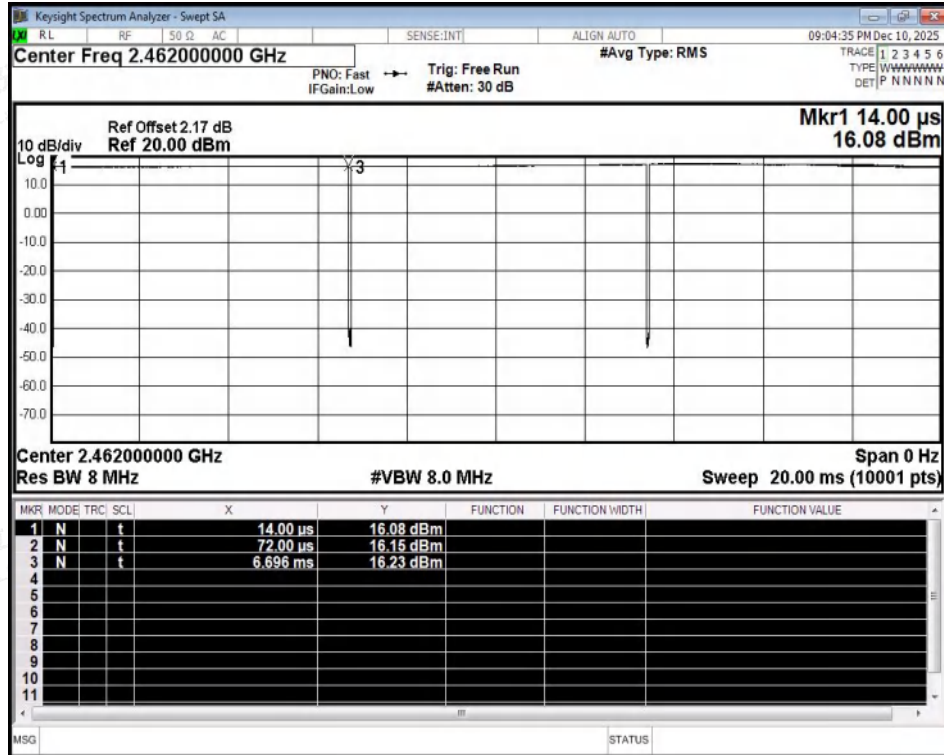


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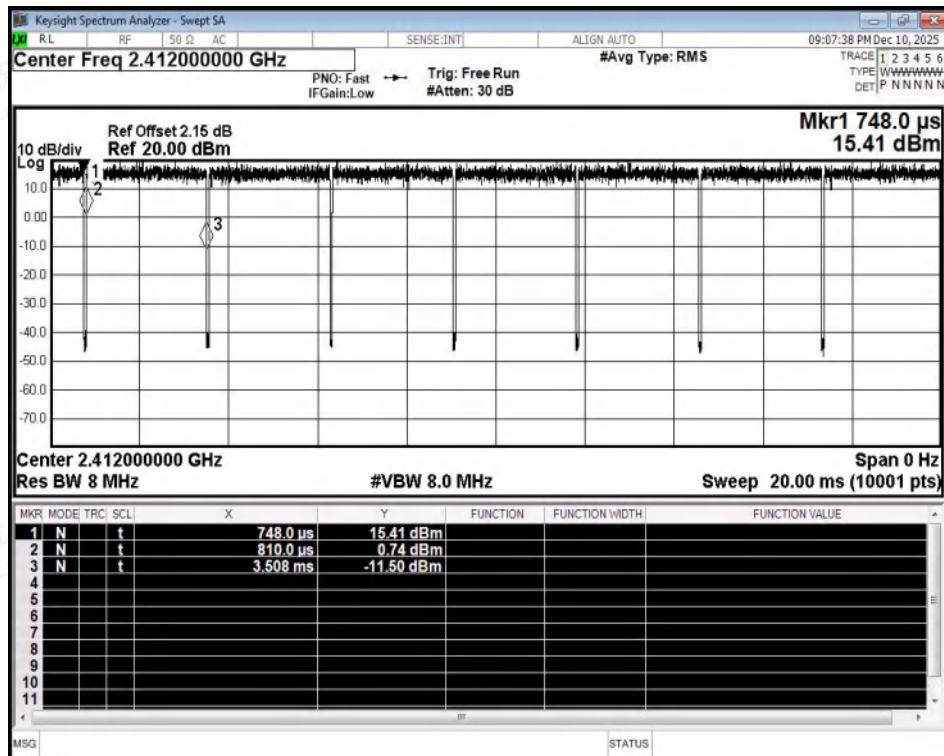
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1

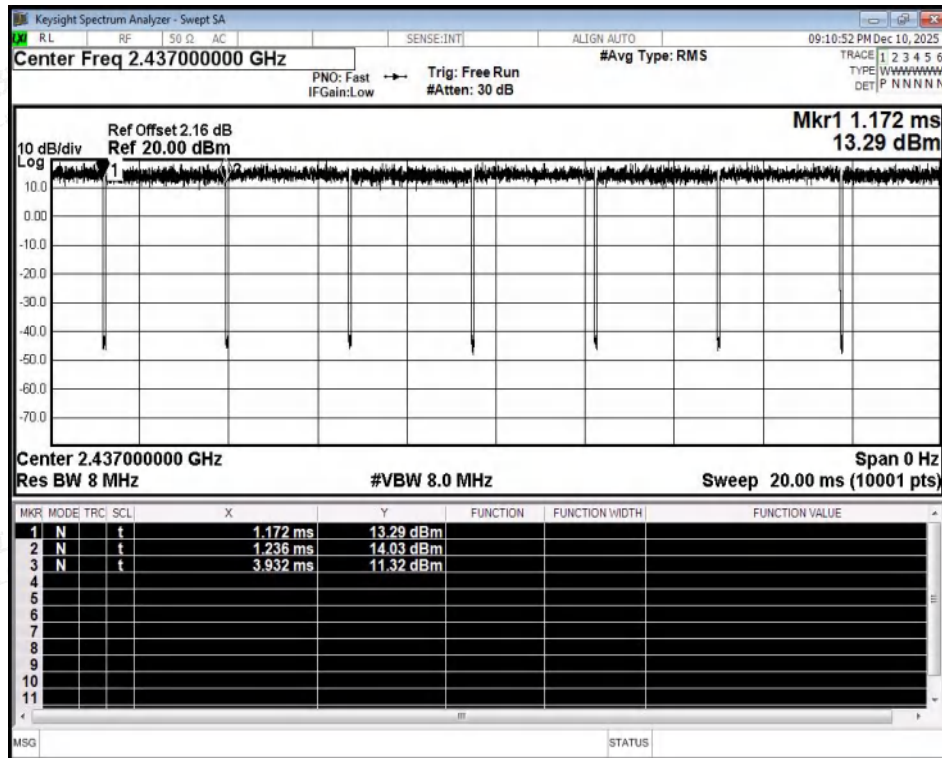


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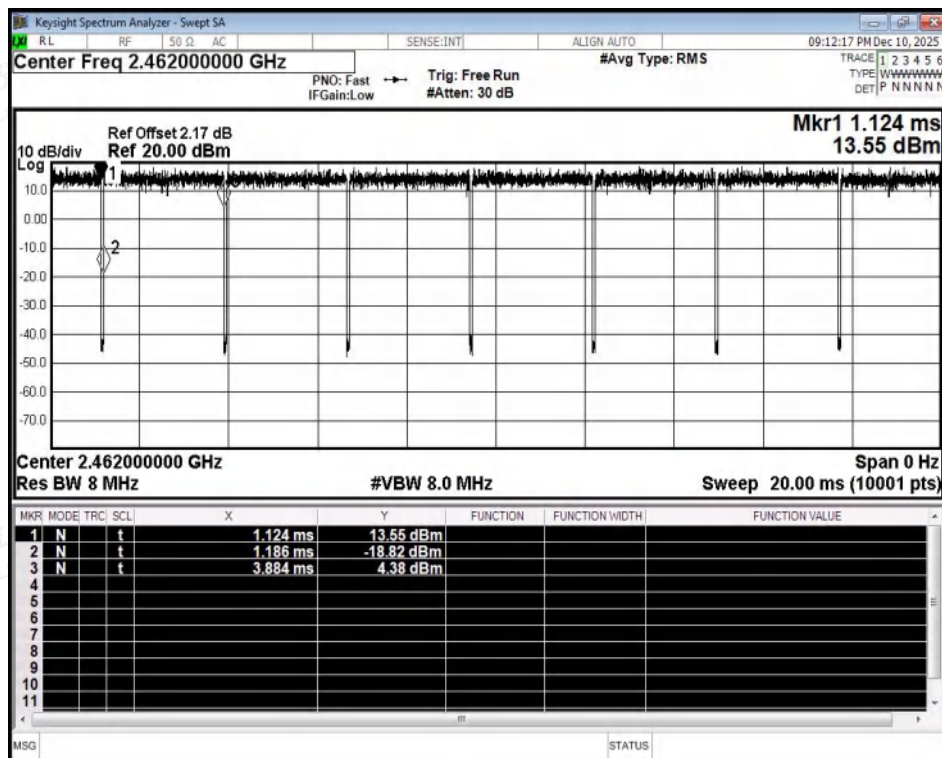
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Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

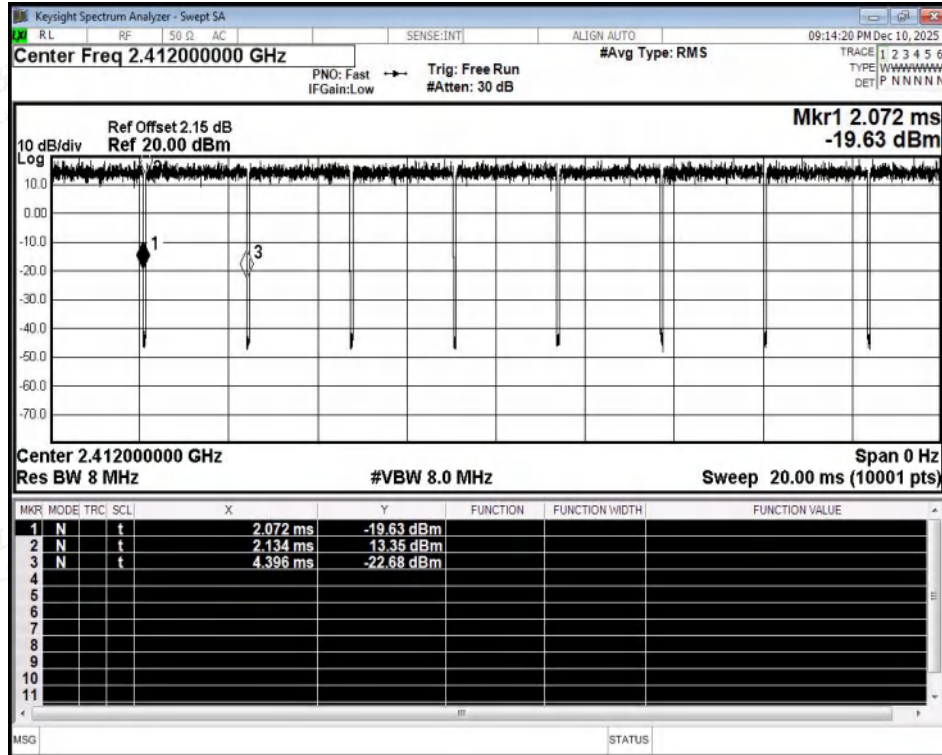


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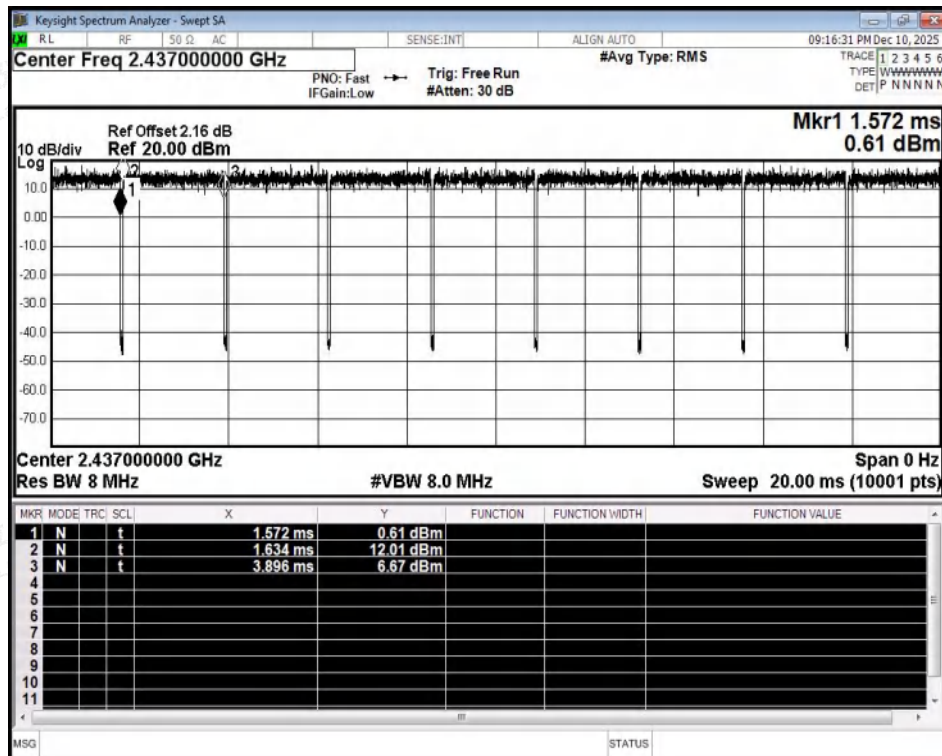
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

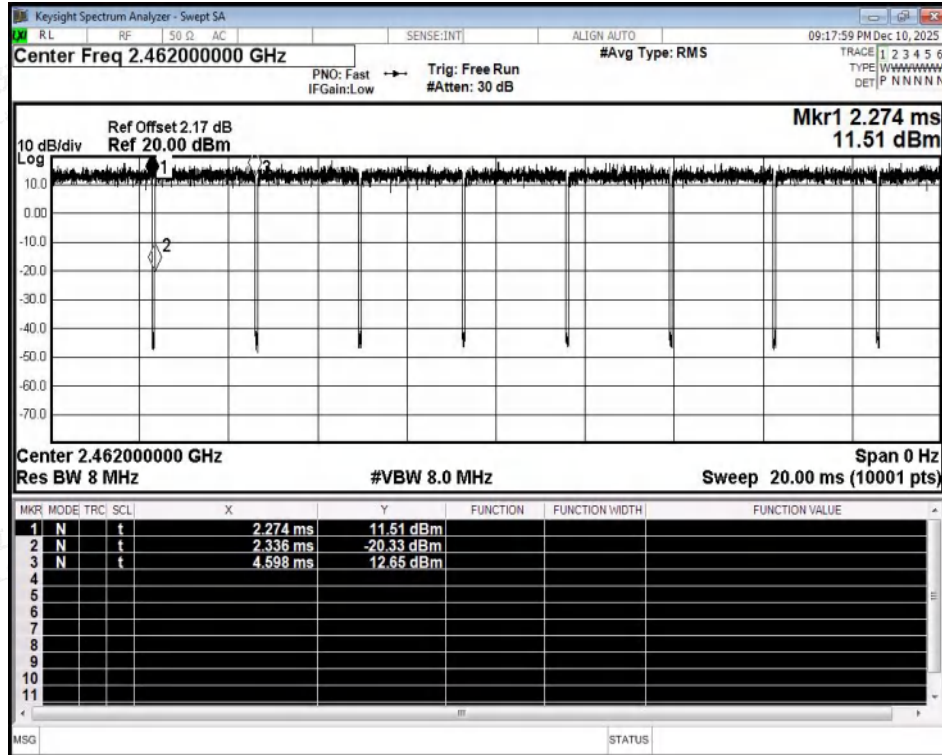


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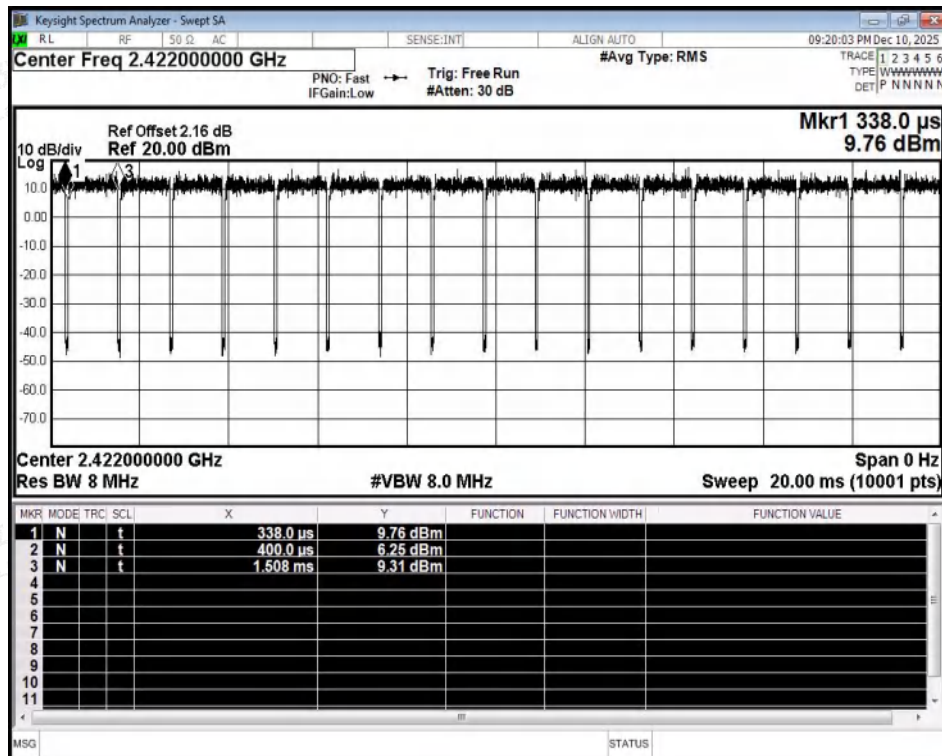
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1

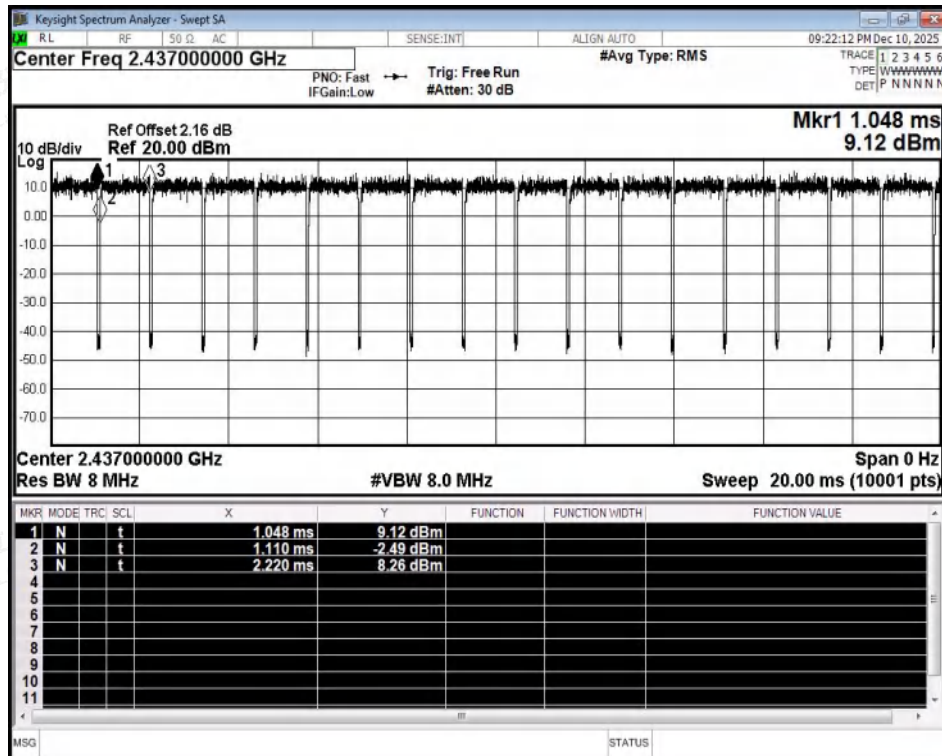


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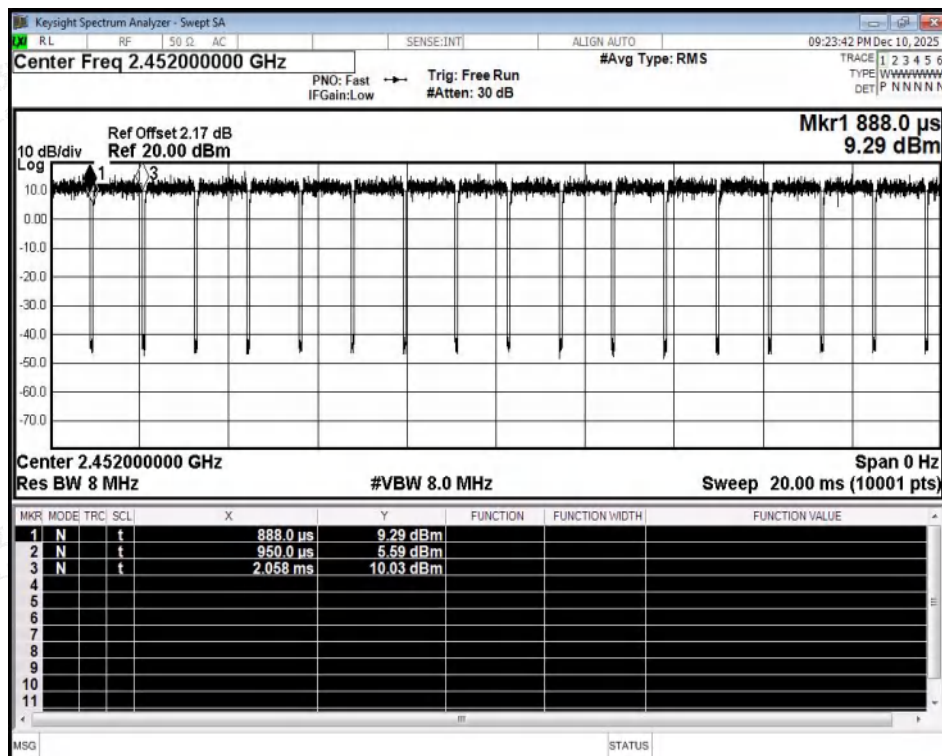
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-50.03	2.17	47.4	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.84	2.17	39.59	Average	54	Pass
NVNT	b	2412	Ant1	2389.56	-47.06	2.17	50.37	Peak	74	Pass
NVNT	b	2412	Ant1	2389.209	-55.77	2.17	41.66	Average	54	Pass
NVNT	b	2412	Ant1	2390	-48.75	2.17	48.68	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56.07	2.17	41.36	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-47.65	2.17	49.78	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.95	2.17	42.48	Average	54	Pass
NVNT	b	2462	Ant1	2484.789	-41.67	2.17	55.76	Peak	74	Pass
NVNT	b	2462	Ant1	2484.842	-53.89	2.17	43.54	Average	54	Pass
NVNT	b	2462	Ant1	2500	-51.35	2.17	46.08	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.74	2.17	39.69	Average	54	Pass
NVNT	g	2412	Ant1	2310	-49.42	2.17	48.01	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.6	2.17	39.83	Average	54	Pass
NVNT	g	2412	Ant1	2388.039	-47.06	2.17	50.37	Peak	74	Pass
NVNT	g	2412	Ant1	2389.794	-56.65	2.17	40.78	Average	54	Pass
NVNT	g	2412	Ant1	2390	-49.2	2.17	48.23	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-56.68	2.17	40.75	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-42.36	2.17	55.07	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-55.58	2.17	41.85	Average	54	Pass
NVNT	g	2462	Ant1	2484.365	-40.26	2.17	57.17	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-55.58	2.17	41.85	Average	54	Pass
NVNT	g	2462	Ant1	2500	-48.67	2.17	48.76	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.38	2.17	40.05	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.87	2.17	46.56	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-57.56	2.17	39.87	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-44.88	2.17	52.55	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-55.75	2.17	41.68	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-45.92	2.17	51.51	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-55.73	2.17	41.7	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-44.95	2.17	52.48	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-53.94	2.17	43.49	Average	54	Pass
NVNT	n20	2462	Ant1	2484.418	-39.02	2.17	58.41	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-53.94	2.17	43.49	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-50.5	2.17	46.93	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.42	2.17	40.01	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-50.68	2.17	46.75	Peak	74	Pass



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NVNT	n40	2422	Ant1	2310	-57.29	2.17	40.14	Average	54	Pass
NVNT	n40	2422	Ant1	2389.094	-42.23	2.17	55.2	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.804	-54.15	2.17	43.28	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-42.95	2.17	54.48	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-53.86	2.17	43.57	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-45.37	2.17	52.06	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-52.45	2.17	44.98	Average	54	Pass
NVNT	n40	2452	Ant1	2483.776	-34.65	2.17	62.78	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.698	-52.73	2.17	44.7	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-50.49	2.17	46.94	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-57.23	2.17	40.2	Average	54	Pass

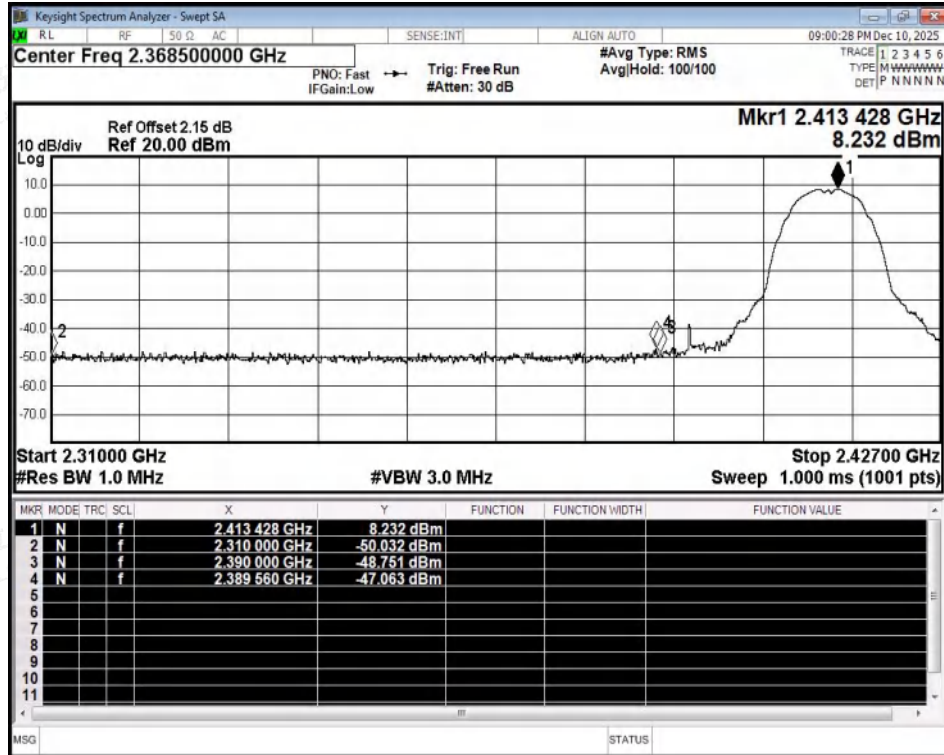


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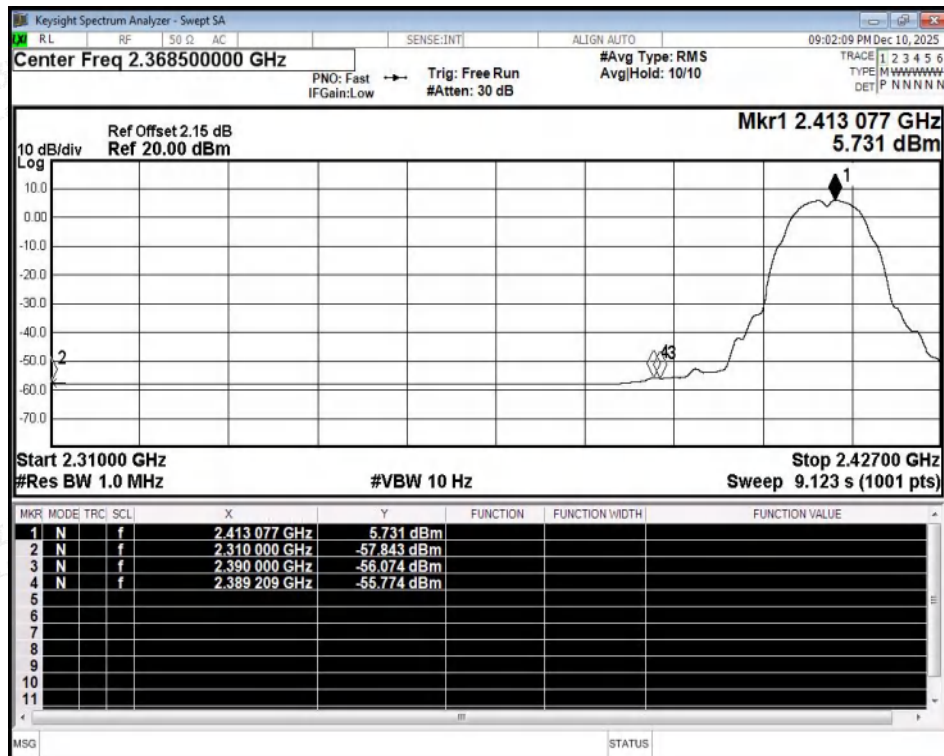
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Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

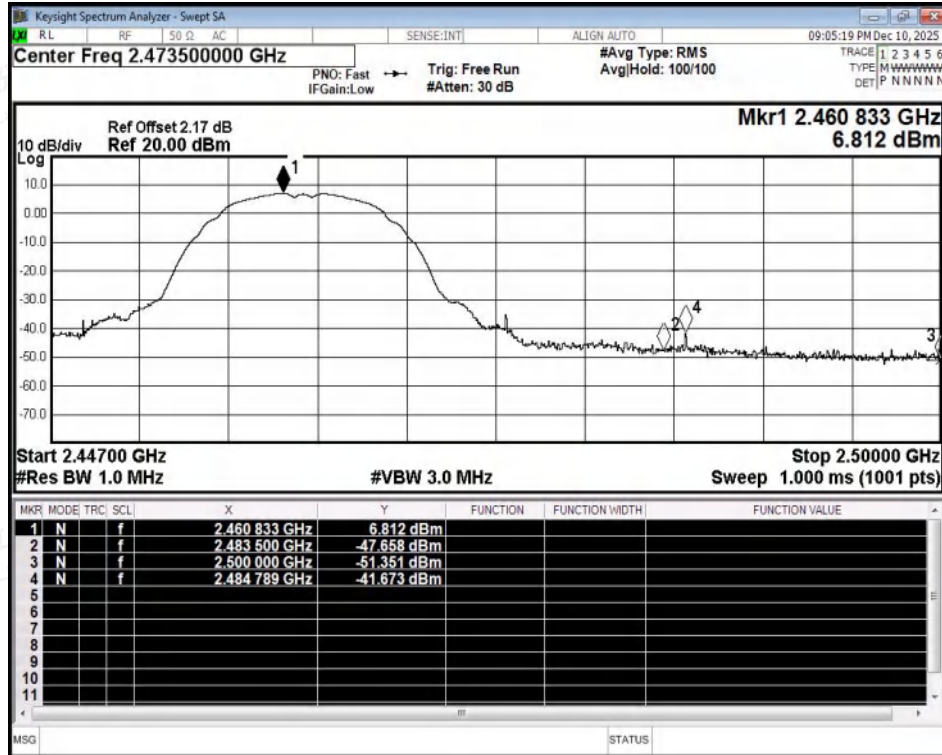


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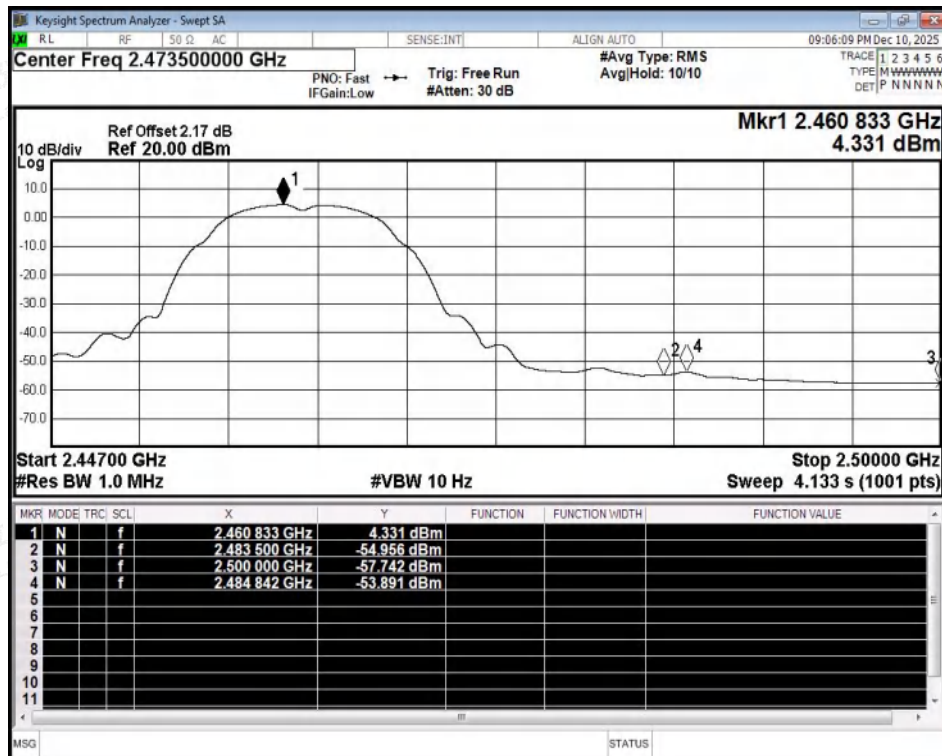
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average

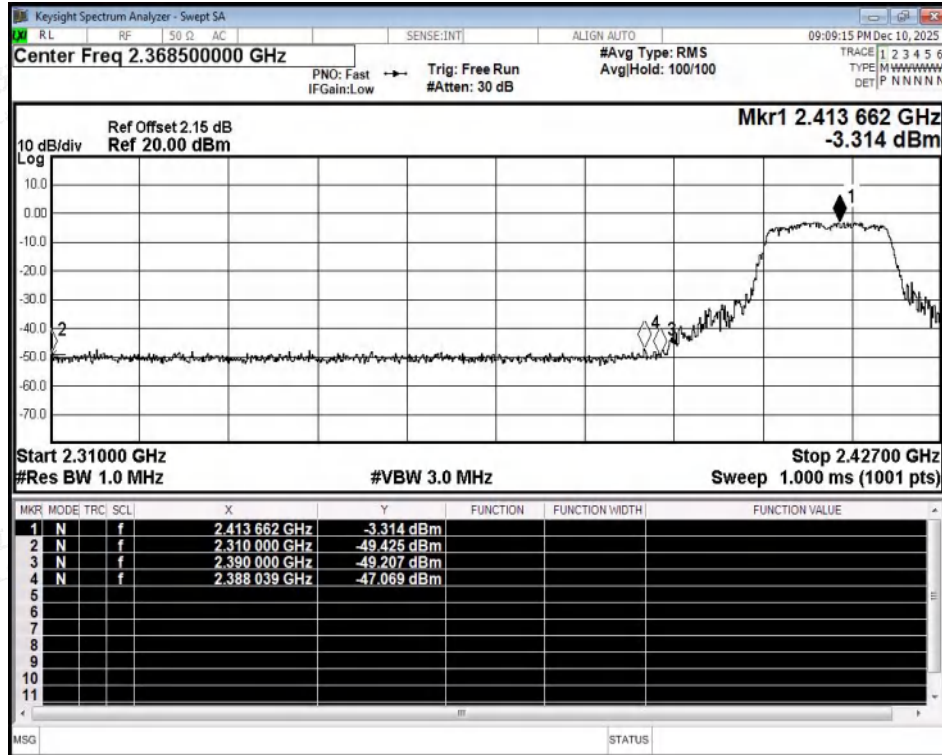


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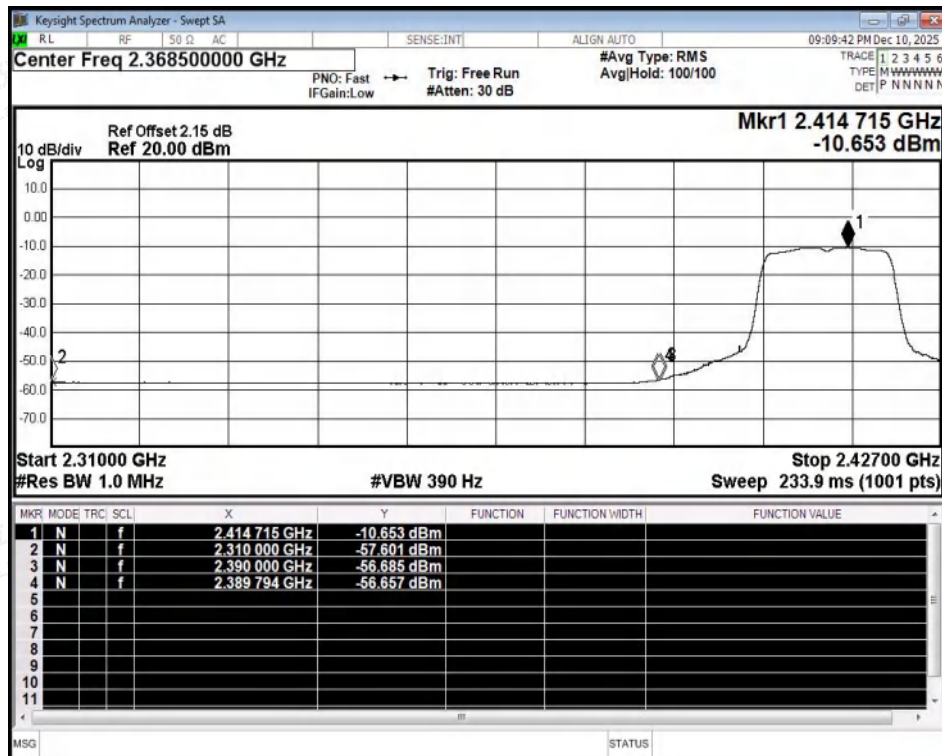
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

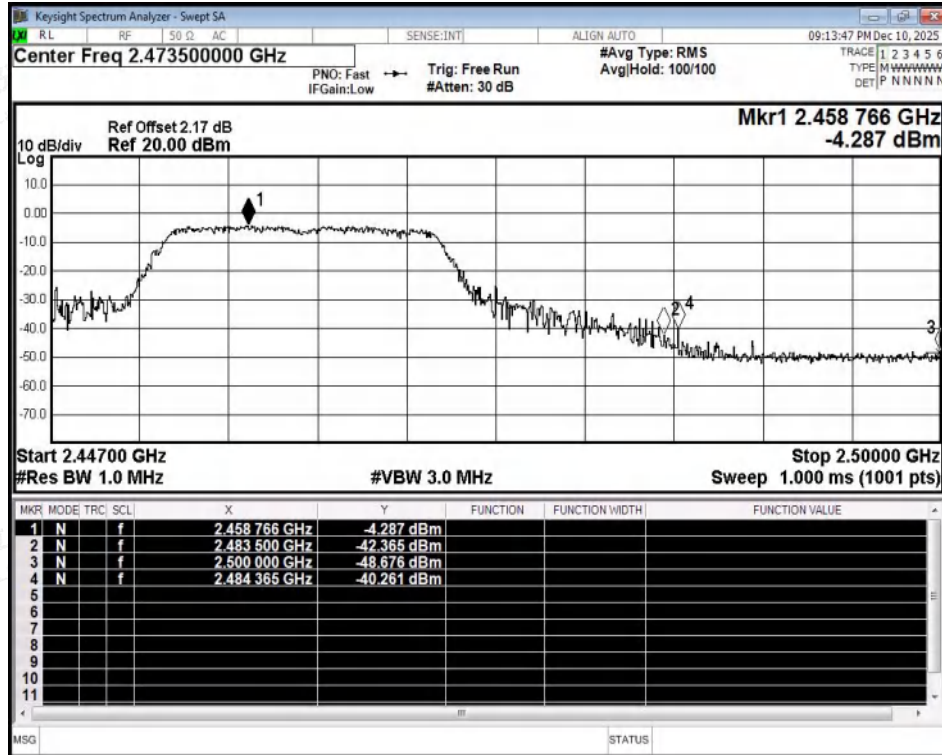


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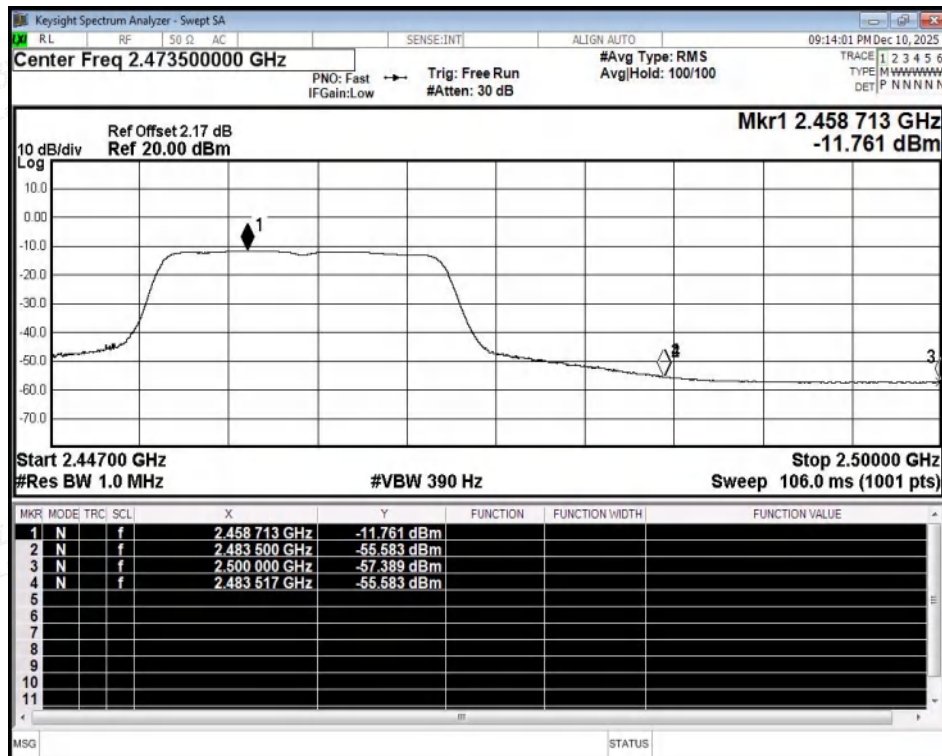
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average

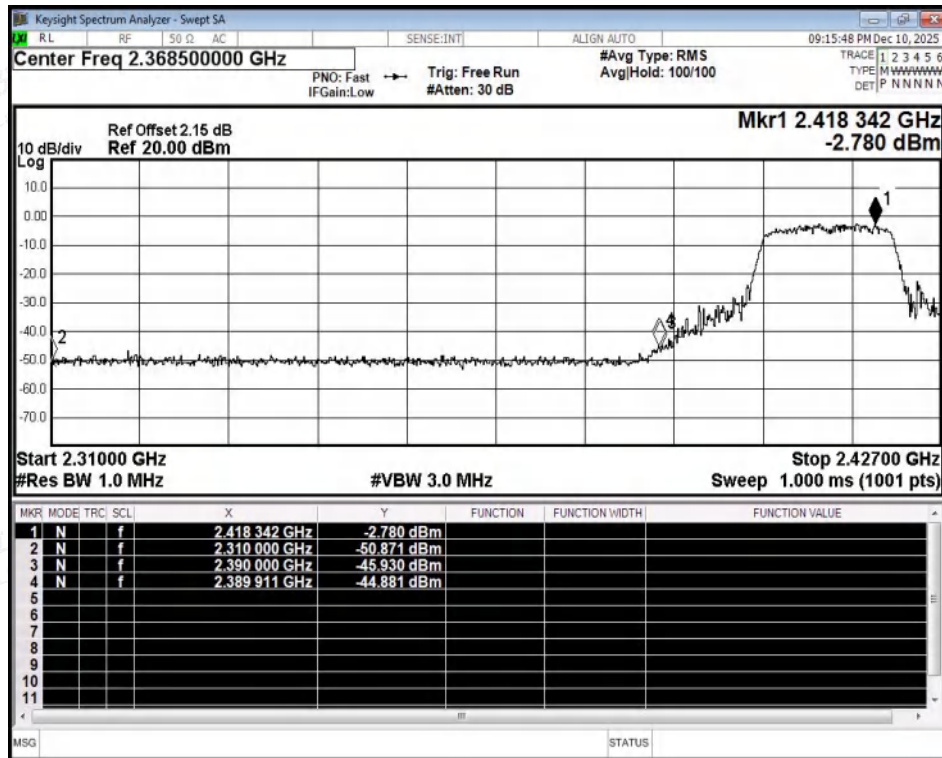


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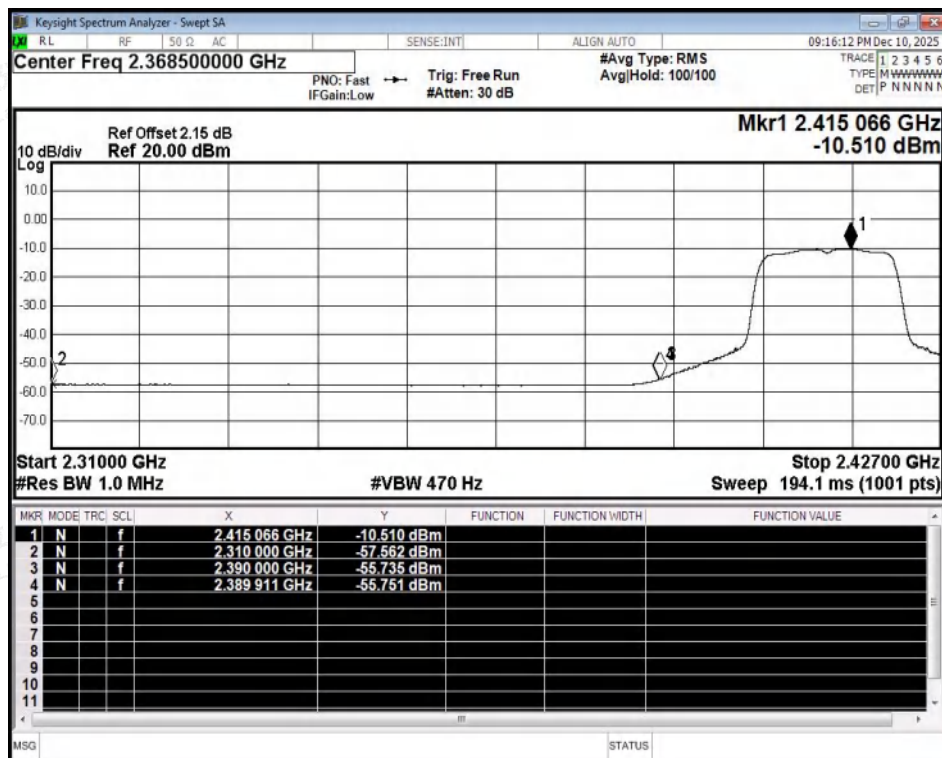
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average

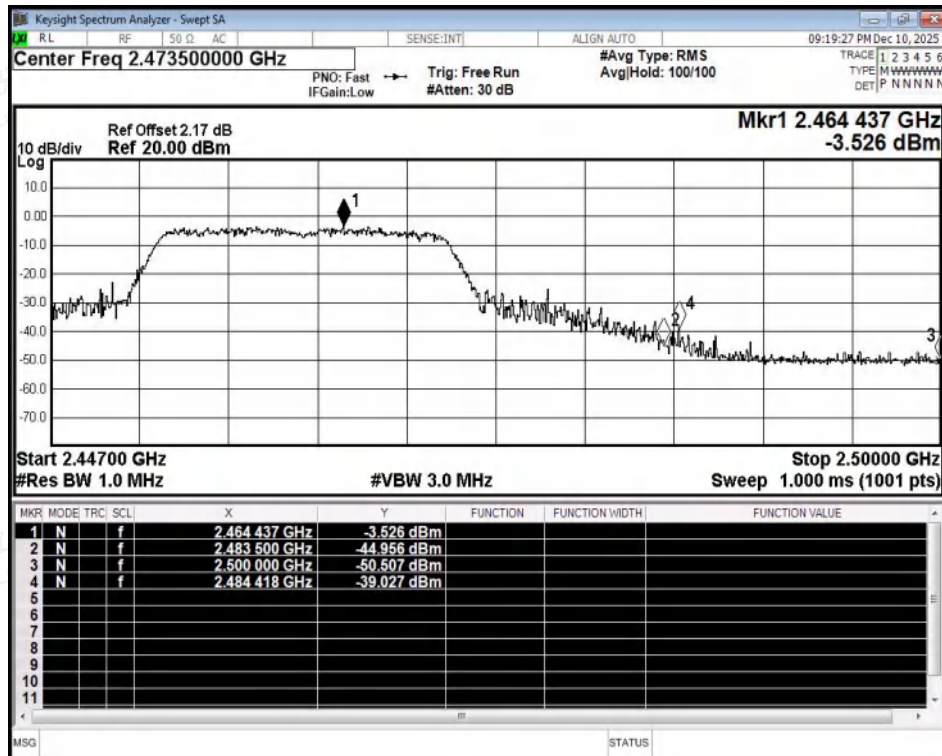


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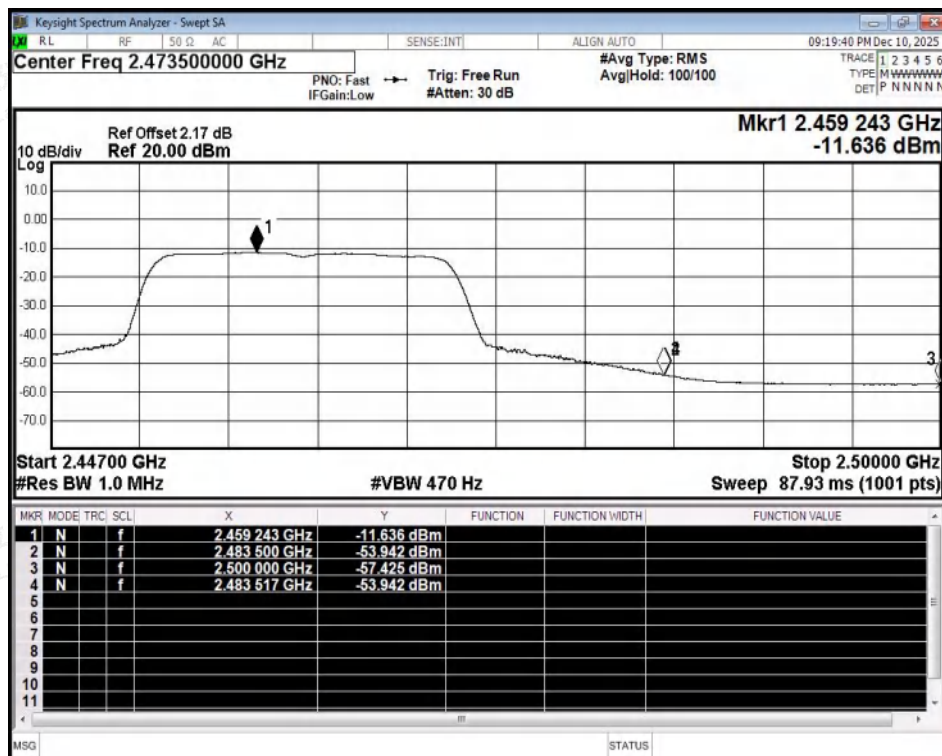
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n20 2462MHz Ant1 Peak



Restrict Band NVNT n20 2462MHz Ant1 Average

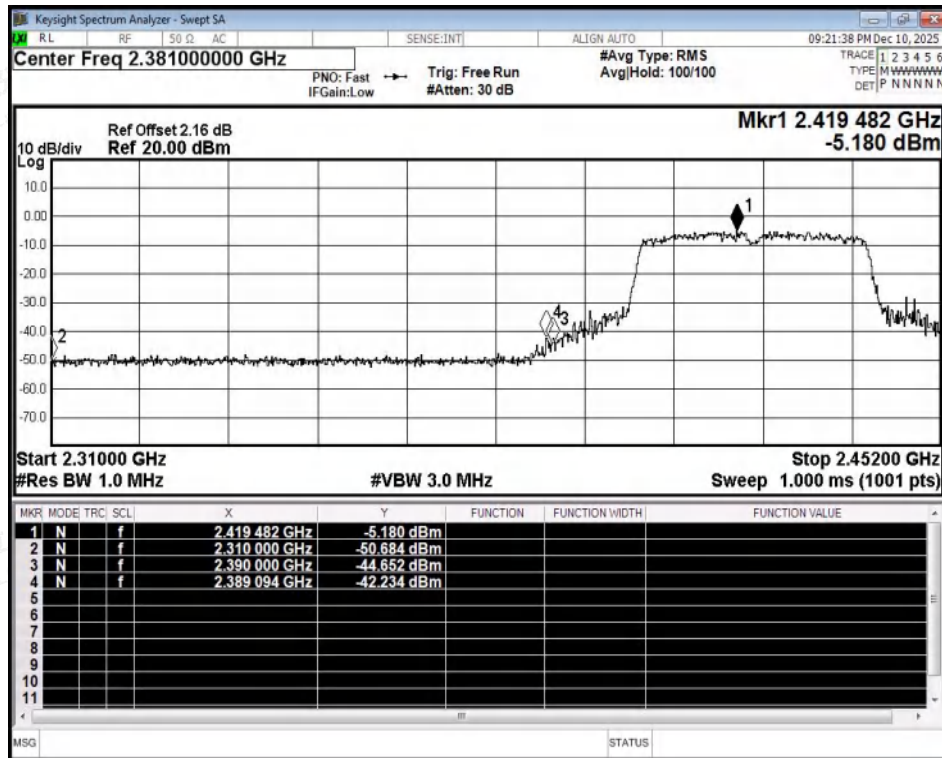


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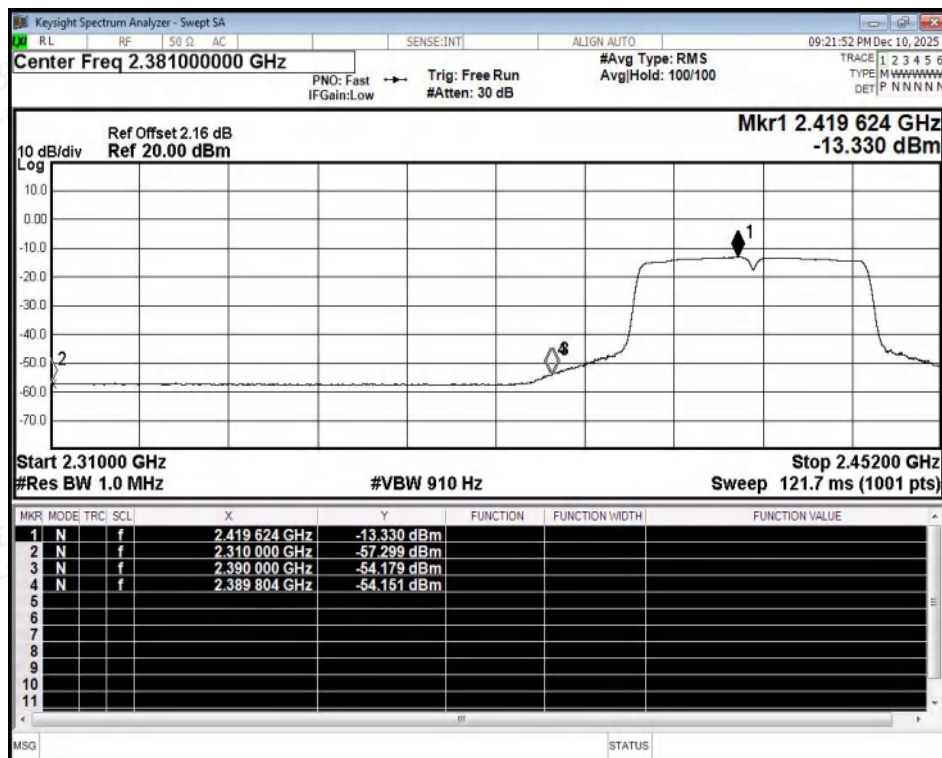
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average

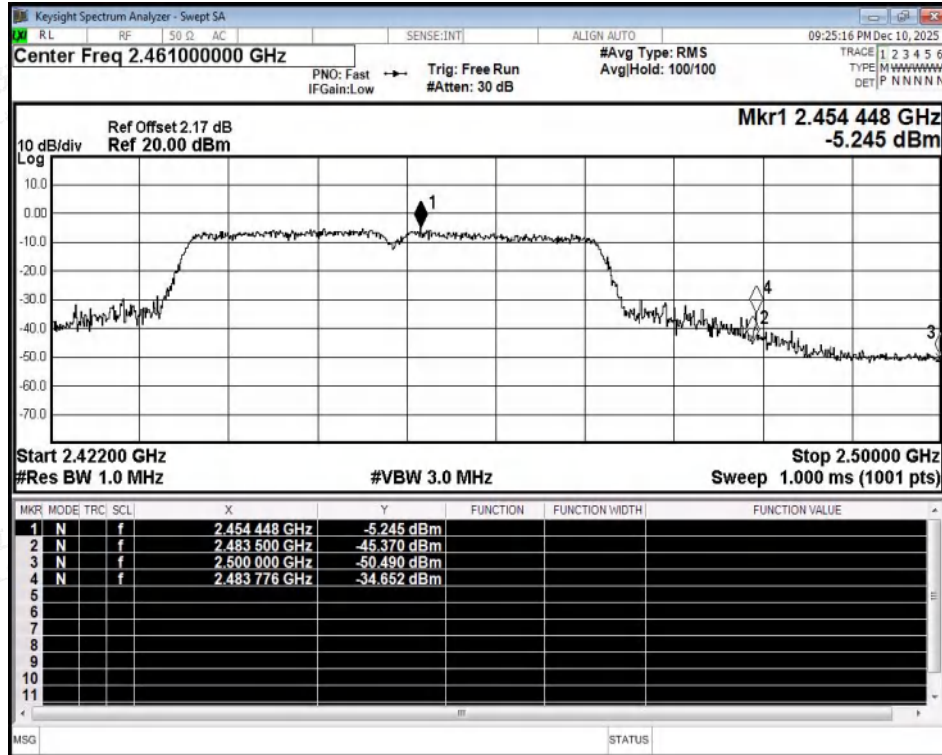


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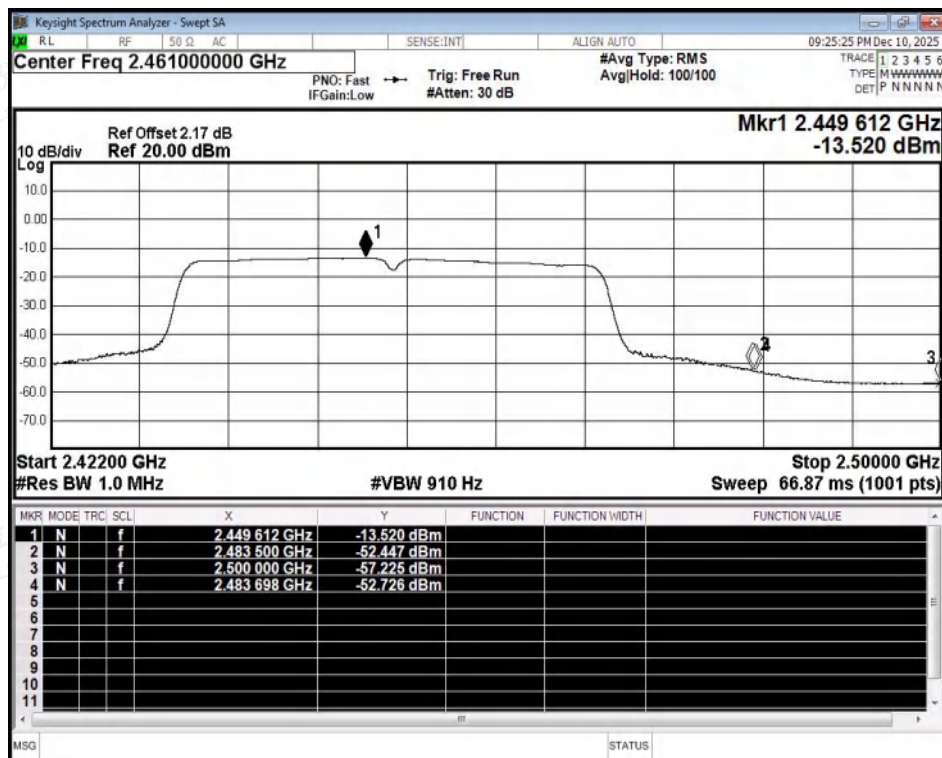
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average



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