



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: SwitchBot Air Purifier Table

Test Model: W5302310

Environmental Conditions

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





B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant	8.549	≥ 0.5	Pass
NVNT	b	2437	Ant	8.094	≥ 0.5	Pass
NVNT	b	2462	Ant	8.098	≥ 0.5	Pass
NVNT	g	2412	Ant	16.331	≥ 0.5	Pass
NVNT	g	2437	Ant	16.365	≥ 0.5	Pass
NVNT	g	2462	Ant	16.292	≥ 0.5	Pass
NVNT	n20	2412	Ant	17.397	≥ 0.5	Pass
NVNT	n20	2437	Ant	17.225	≥ 0.5	Pass
NVNT	n20	2462	Ant	17.397	≥ 0.5	Pass
NVNT	n40	2422	Ant	34.396	≥ 0.5	Pass
NVNT	n40	2437	Ant	35.703	≥ 0.5	Pass
NVNT	n40	2452	Ant	35.248	≥ 0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant



-6dB Bandwidth NVNT b 2437MHz Ant



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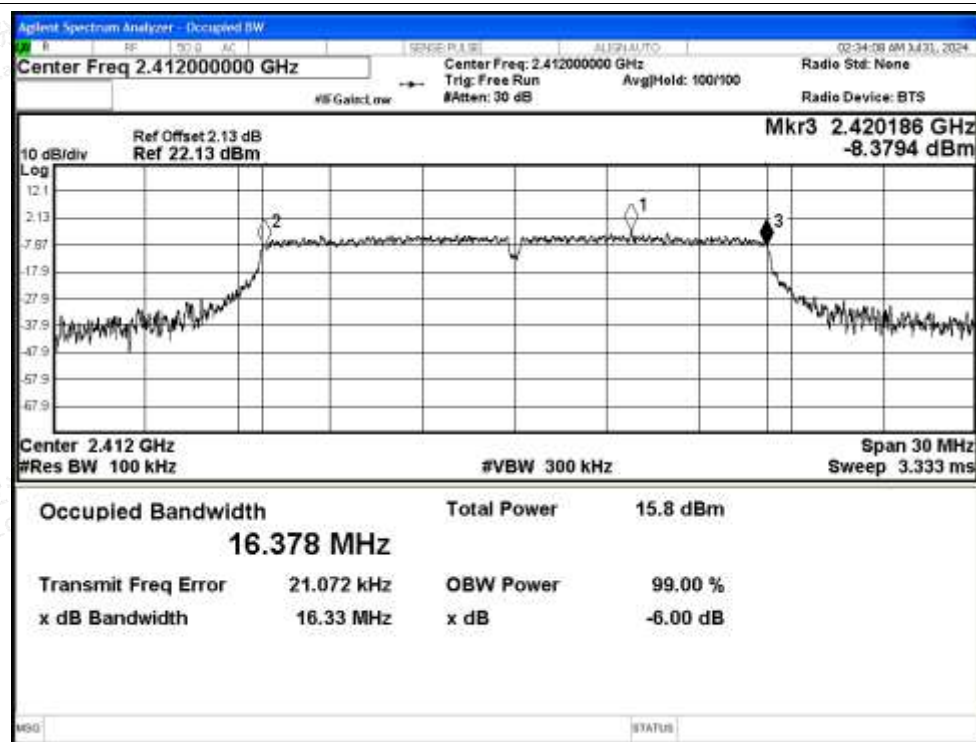
Scan code to check authenticity



-6dB Bandwidth NVNT b 2462MHz Ant



-6dB Bandwidth NVNT g 2412MHz Ant



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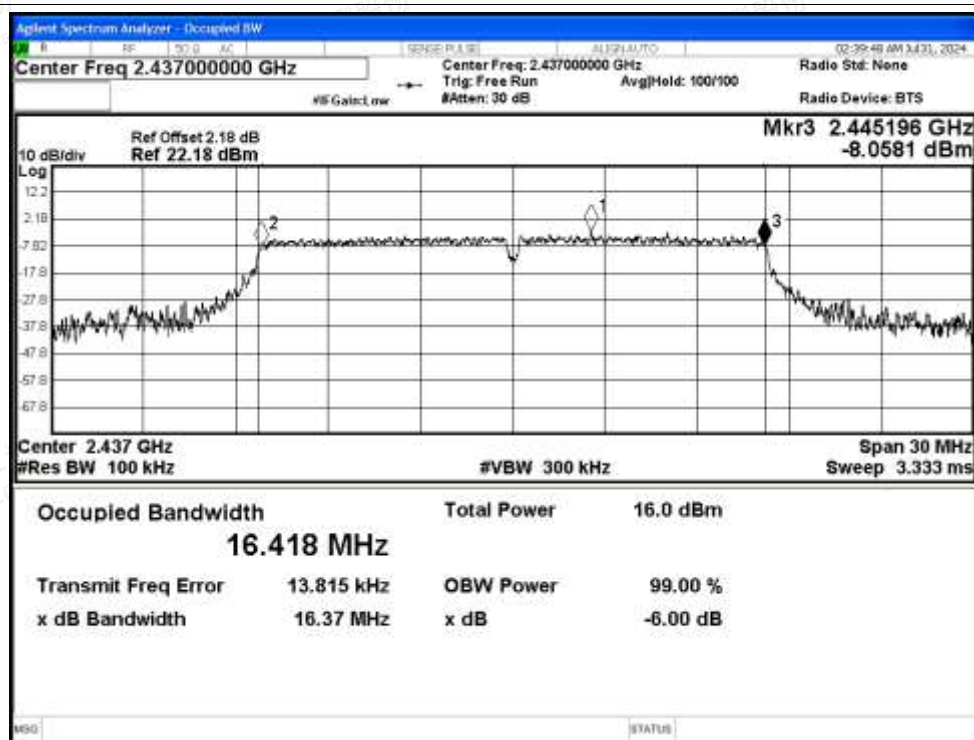
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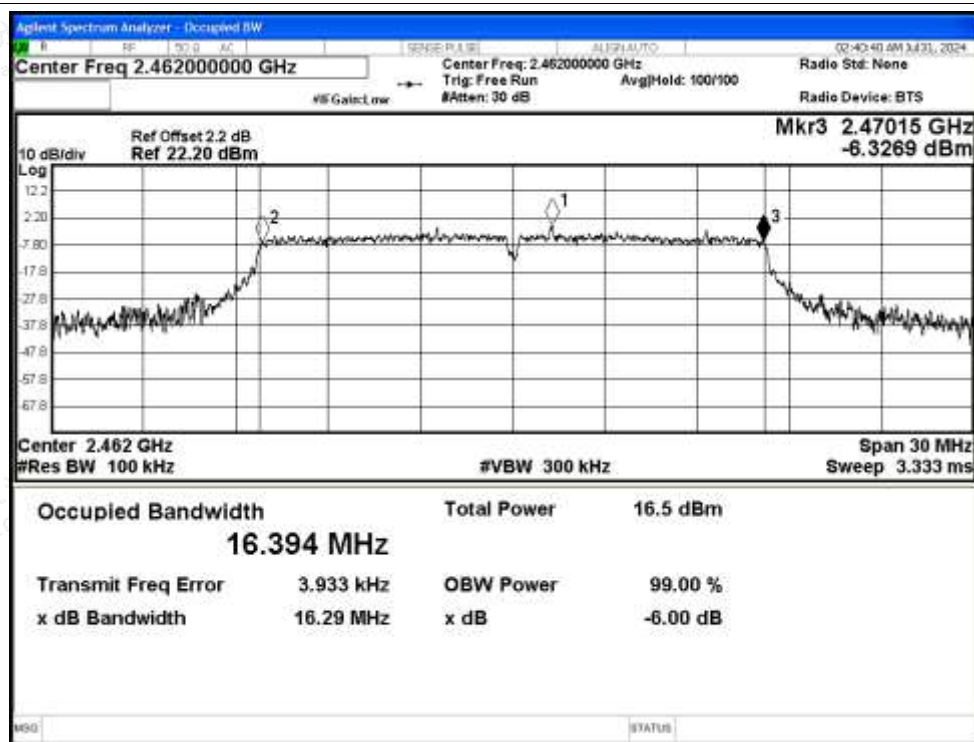
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-6dB Bandwidth NVNT g 2437MHz Ant



-6dB Bandwidth NVNT g 2462MHz Ant



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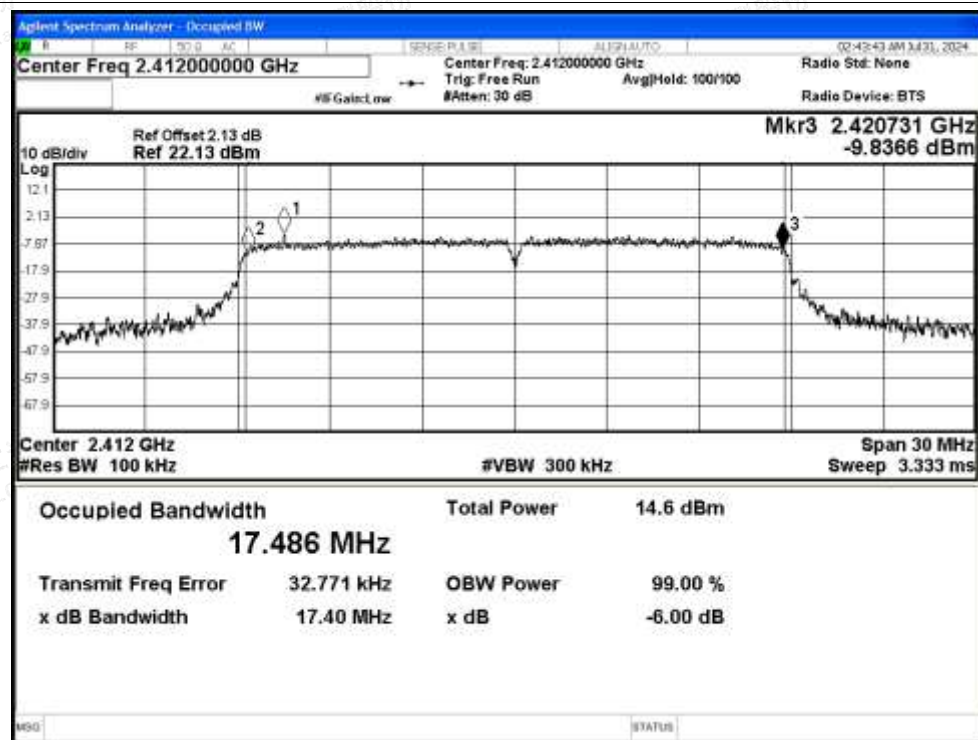
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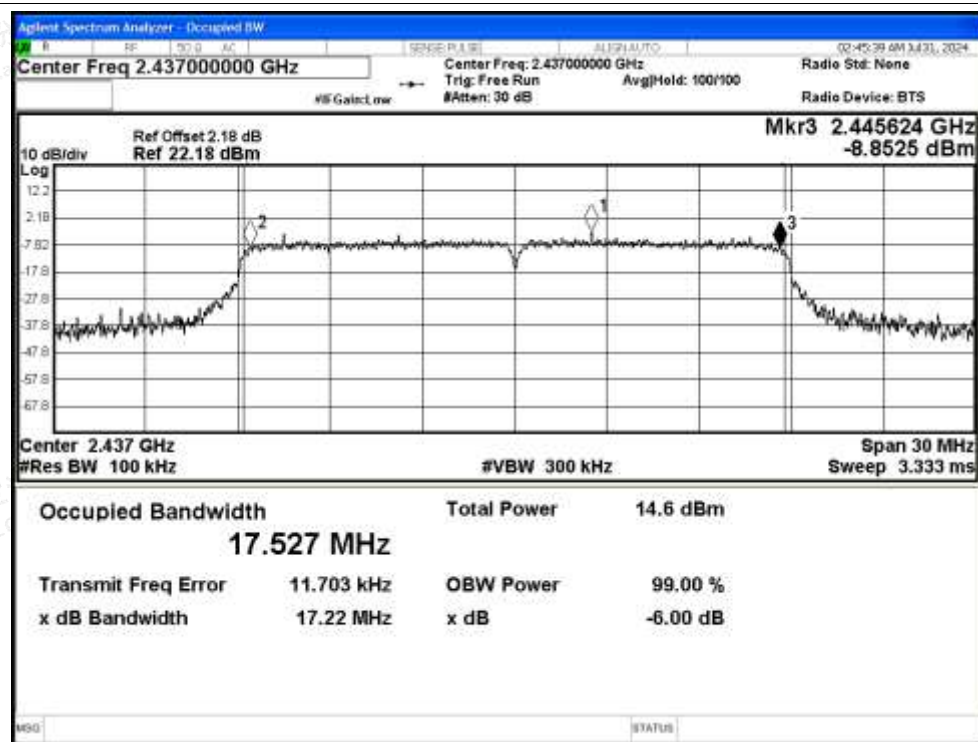
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant



-6dB Bandwidth NVNT n20 2437MHz Ant



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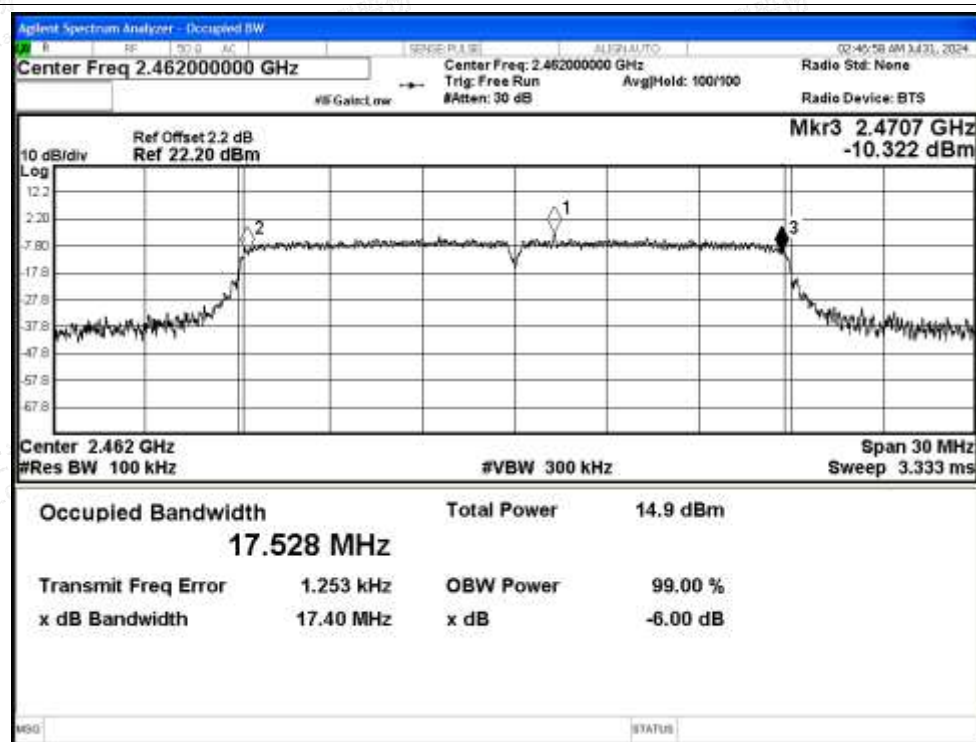
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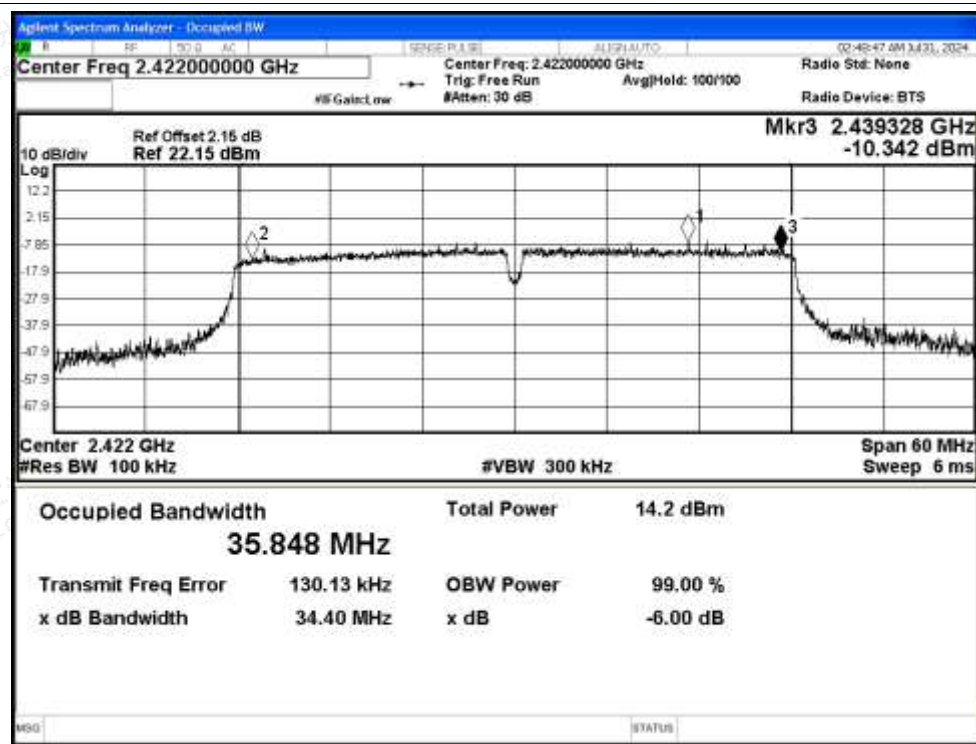
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-6dB Bandwidth NVNT n20 2462MHz Ant



-6dB Bandwidth NVNT n40 2422MHz Ant



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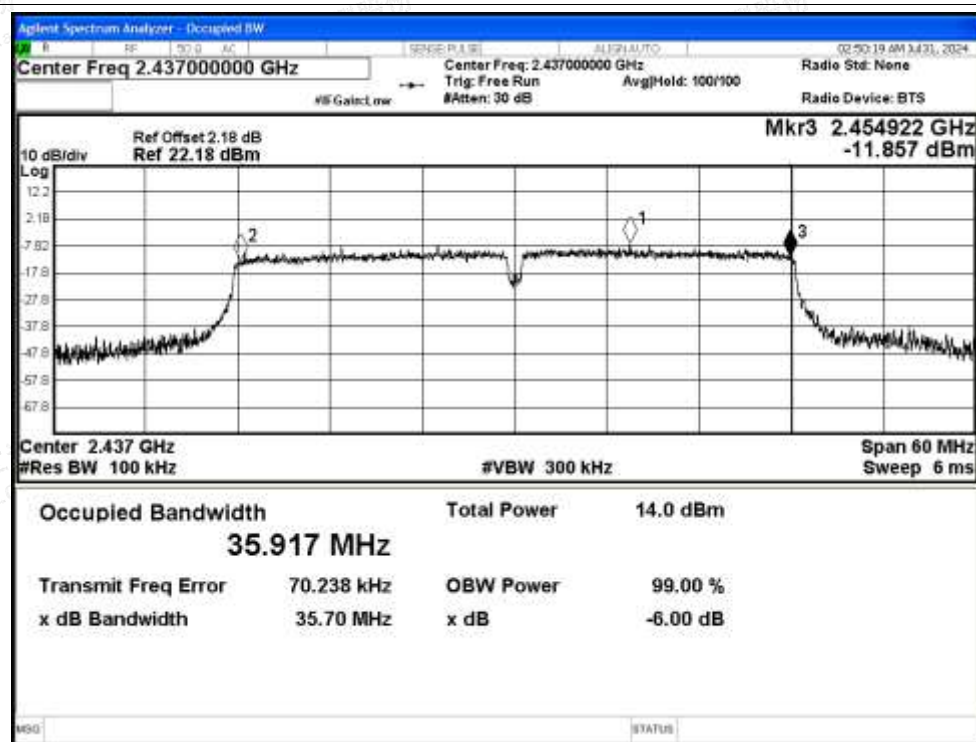
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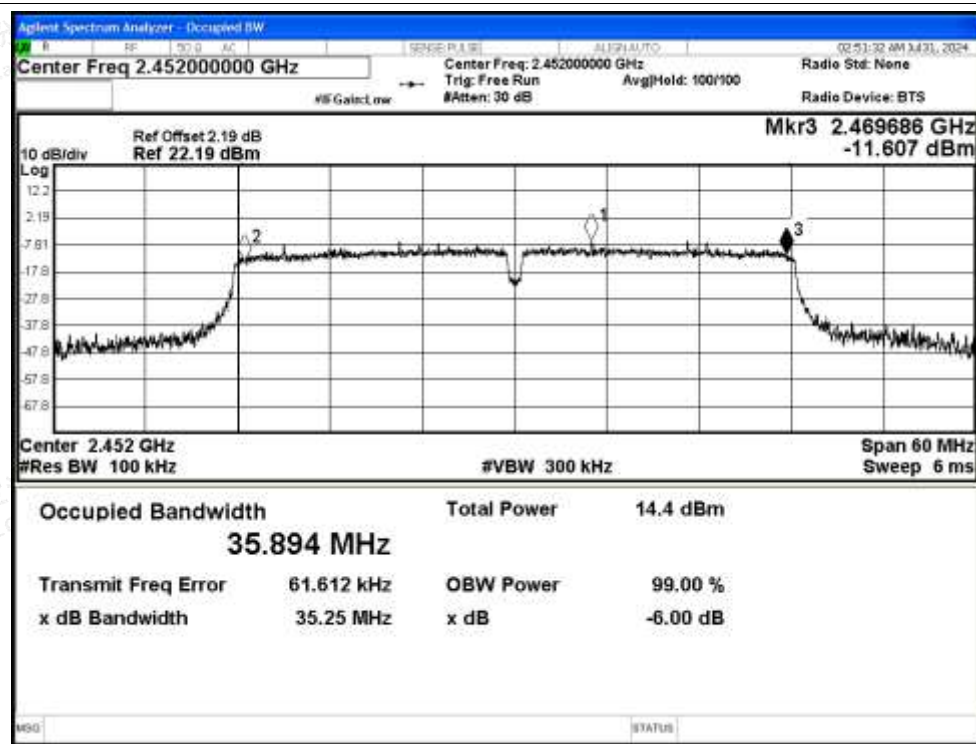
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-6dB Bandwidth NVNT n40 2437MHz Ant



-6dB Bandwidth NVNT n40 2452MHz Ant



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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant	15.87	30	Pass
NVNT	b	2437	Ant	15.7	30	Pass
NVNT	b	2462	Ant	15.9	30	Pass
NVNT	g	2412	Ant	14.63	30	Pass
NVNT	g	2437	Ant	14.8	30	Pass
NVNT	g	2462	Ant	14.33	30	Pass
NVNT	n20	2412	Ant	13.52	30	Pass
NVNT	n20	2437	Ant	13.38	30	Pass
NVNT	n20	2462	Ant	13.9	30	Pass
NVNT	n40	2422	Ant	12.72	30	Pass
NVNT	n40	2437	Ant	12.43	30	Pass
NVNT	n40	2452	Ant	13.16	30	Pass





B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant	-9	8	Pass
NVNT	b	2437	Ant	-8.27	8	Pass
NVNT	b	2462	Ant	-8.93	8	Pass
NVNT	g	2412	Ant	-16.41	8	Pass
NVNT	g	2437	Ant	-15.74	8	Pass
NVNT	g	2462	Ant	-17.14	8	Pass
NVNT	n20	2412	Ant	-17.28	8	Pass
NVNT	n20	2437	Ant	-18.33	8	Pass
NVNT	n20	2462	Ant	-17.59	8	Pass
NVNT	n40	2422	Ant	-20.3	8	Pass
NVNT	n40	2437	Ant	-20.86	8	Pass
NVNT	n40	2452	Ant	-20.77	8	Pass



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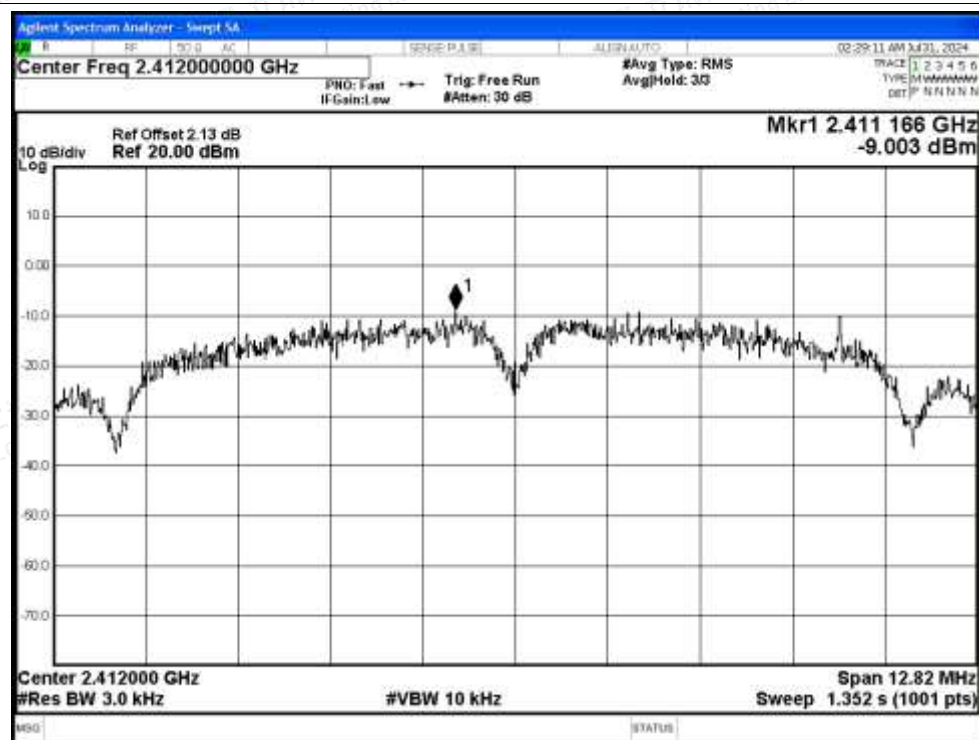
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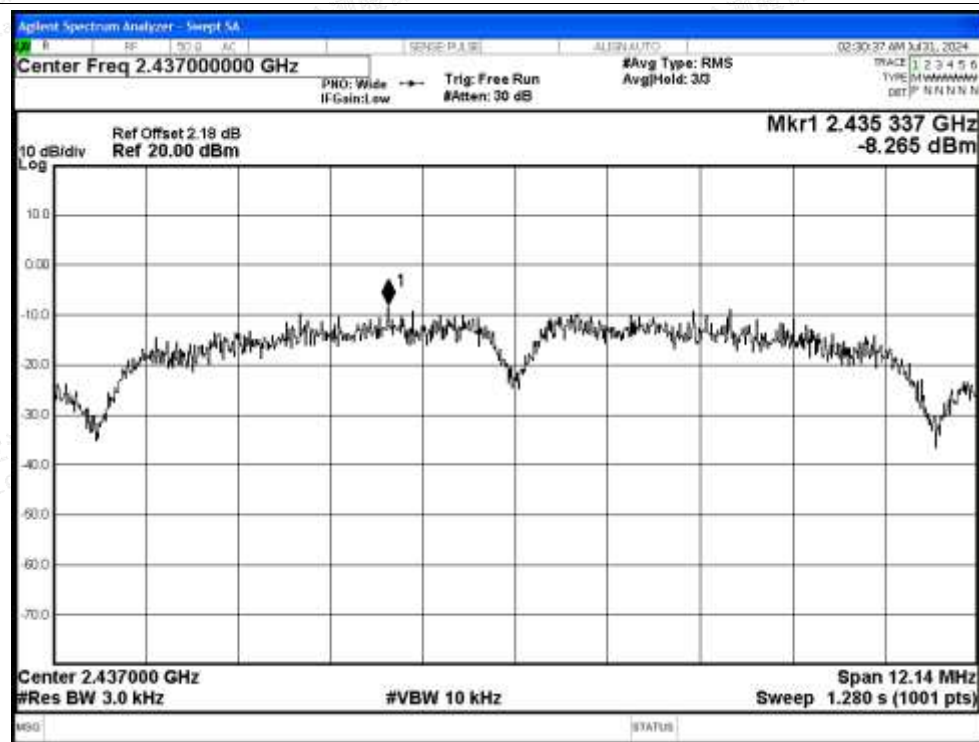


Test Graphs

PSD NVNT b 2412MHz Ant



PSD NVNT b 2437MHz Ant



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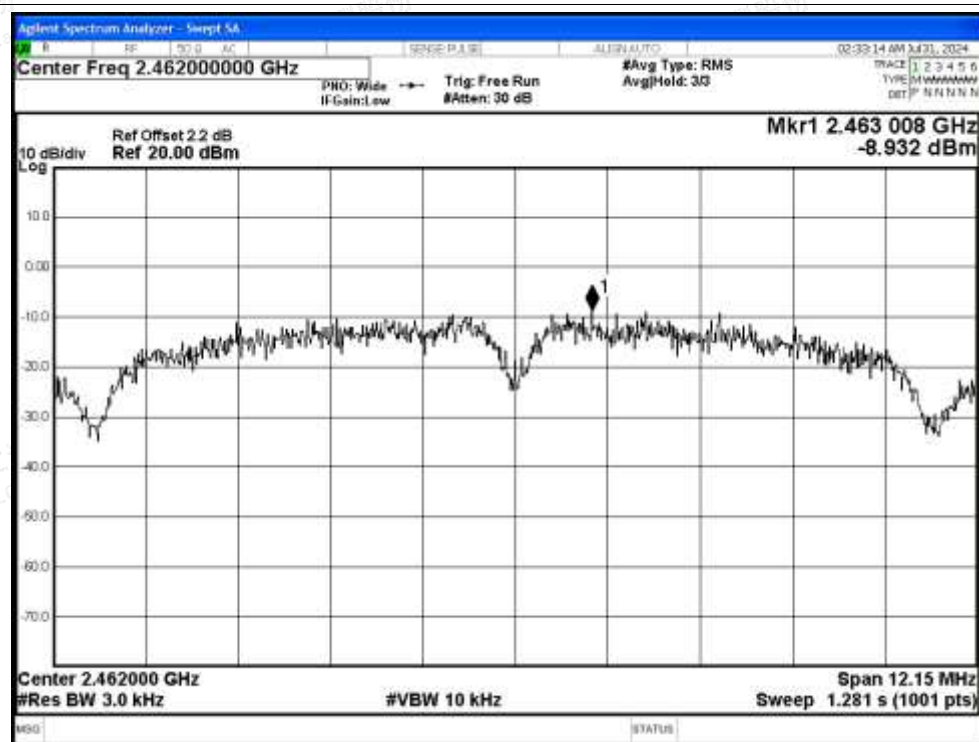
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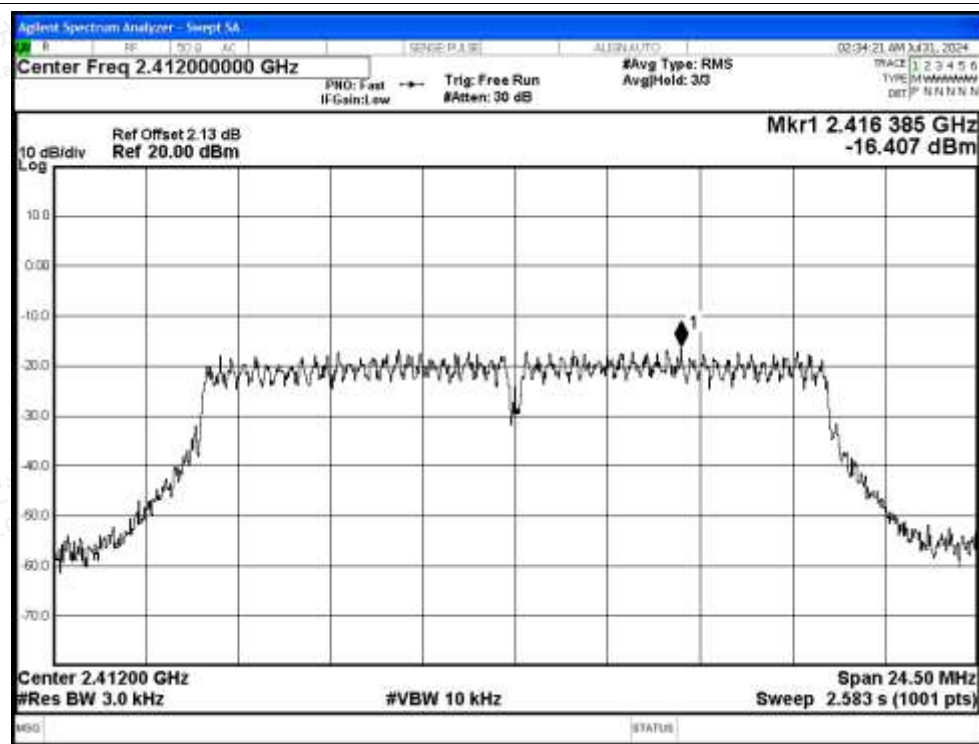
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PSD NVNT b 2462MHz Ant



PSD NVNT g 2412MHz Ant



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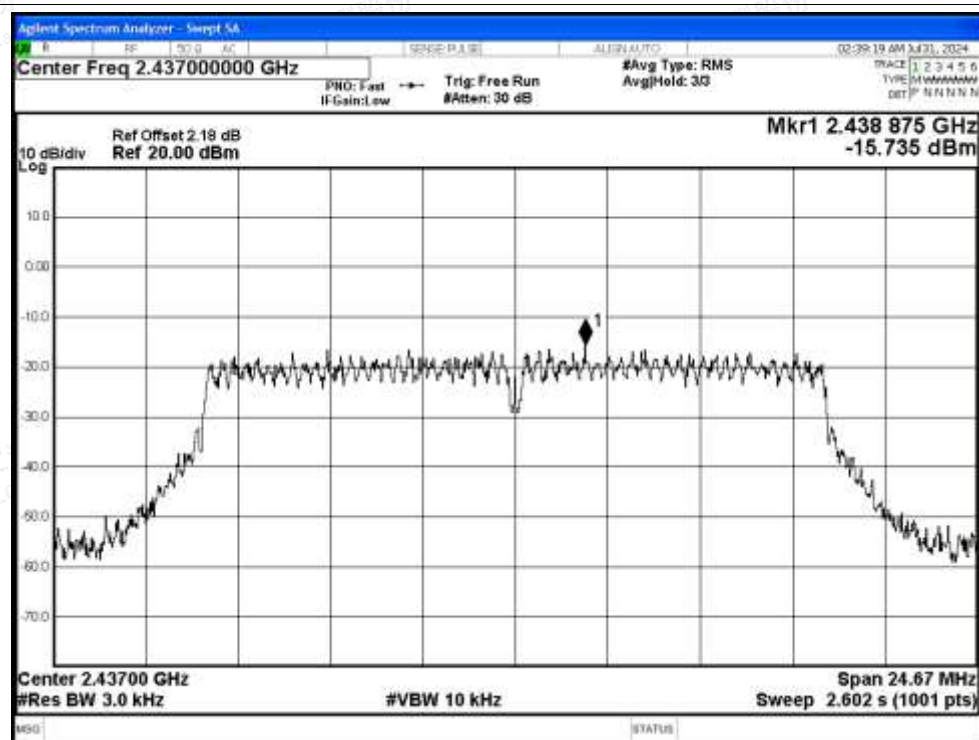
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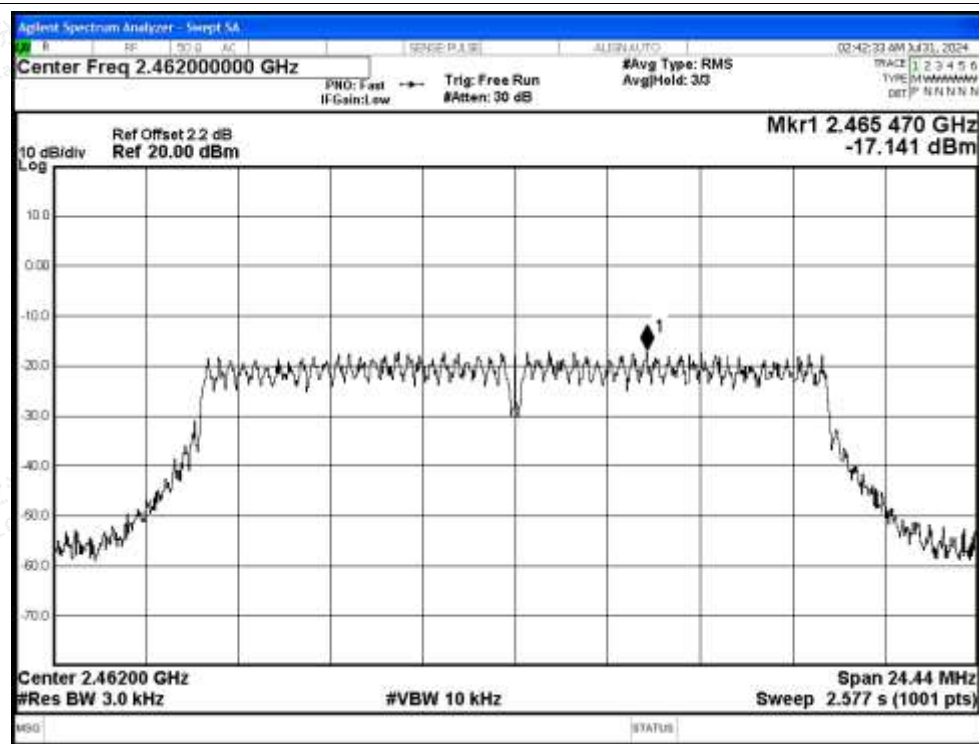
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PSD NVNT g 2437MHz Ant



PSD NVNT g 2462MHz Ant



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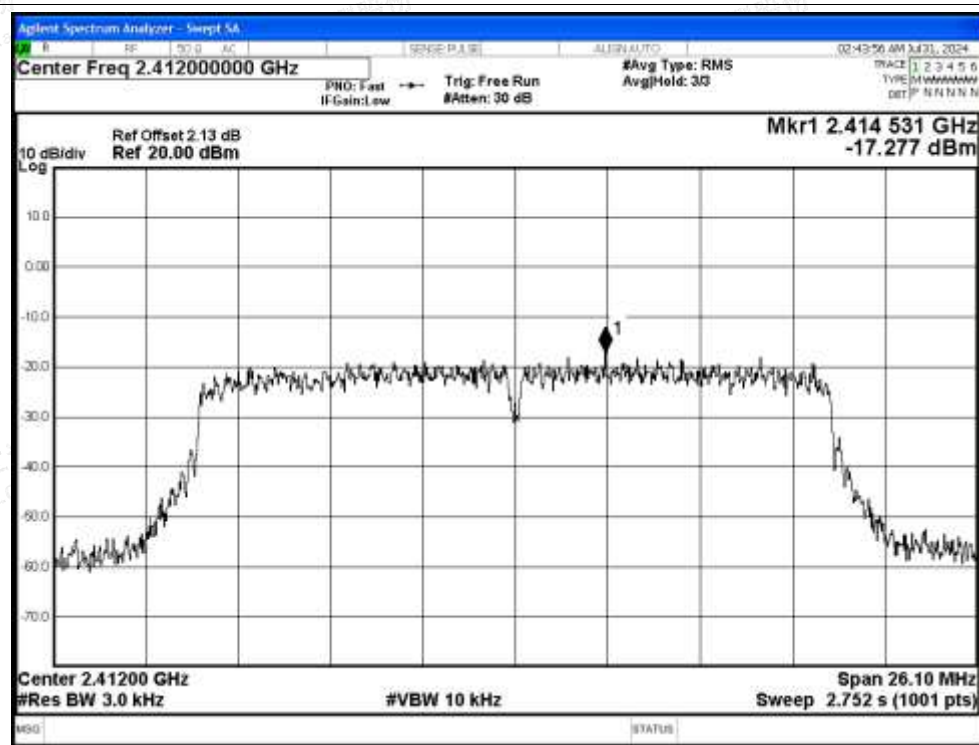
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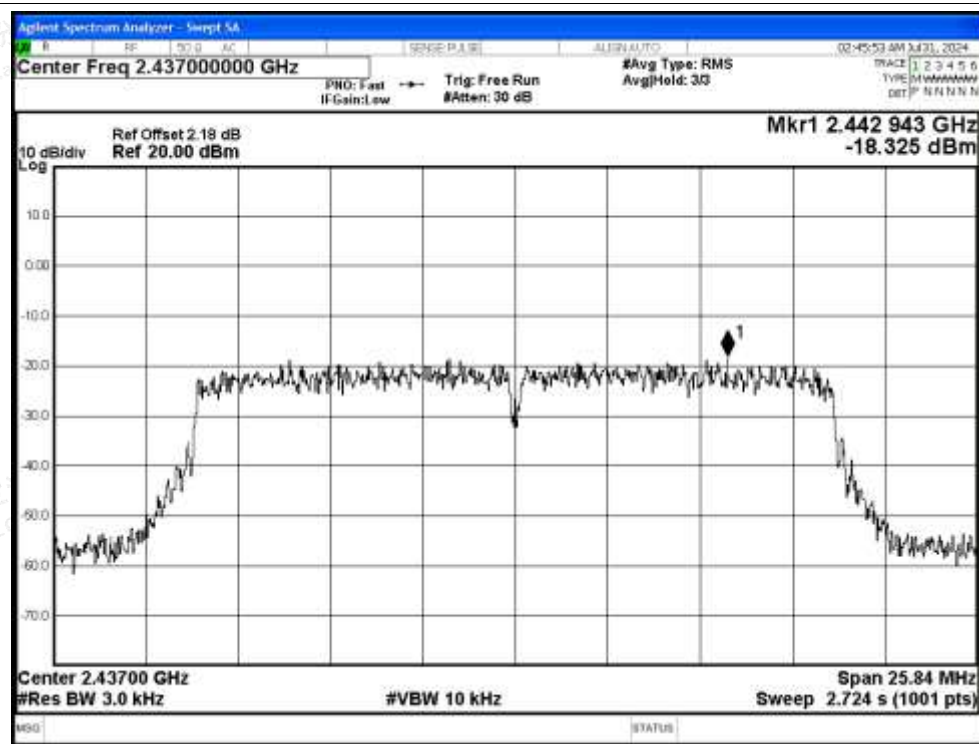
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PSD NVNT n20 2412MHz Ant



PSD NVNT n20 2437MHz Ant



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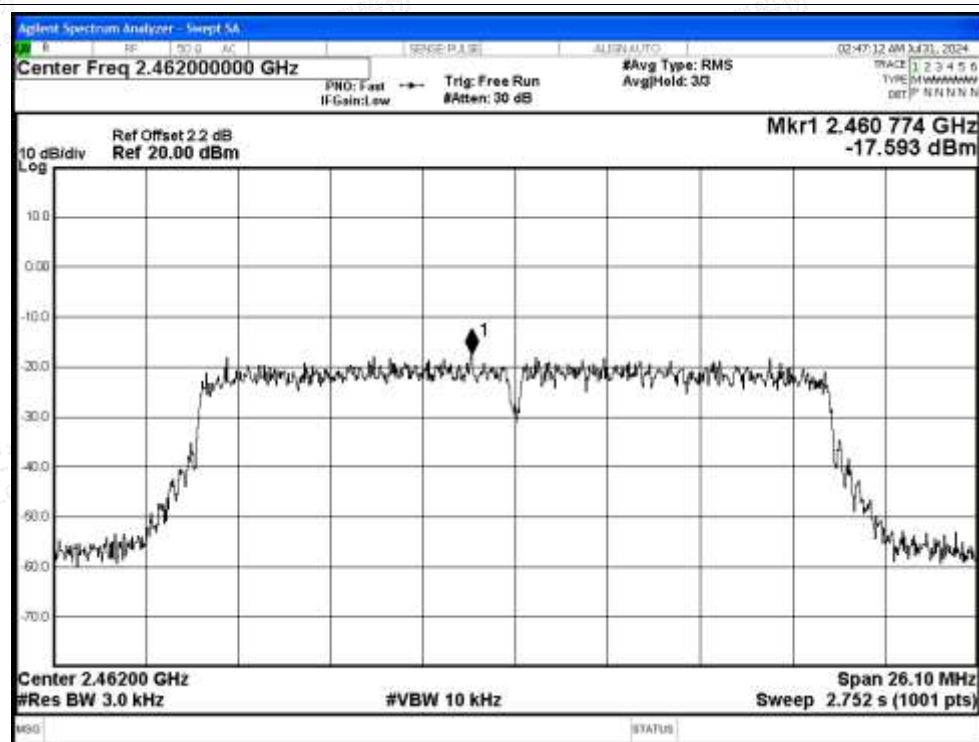
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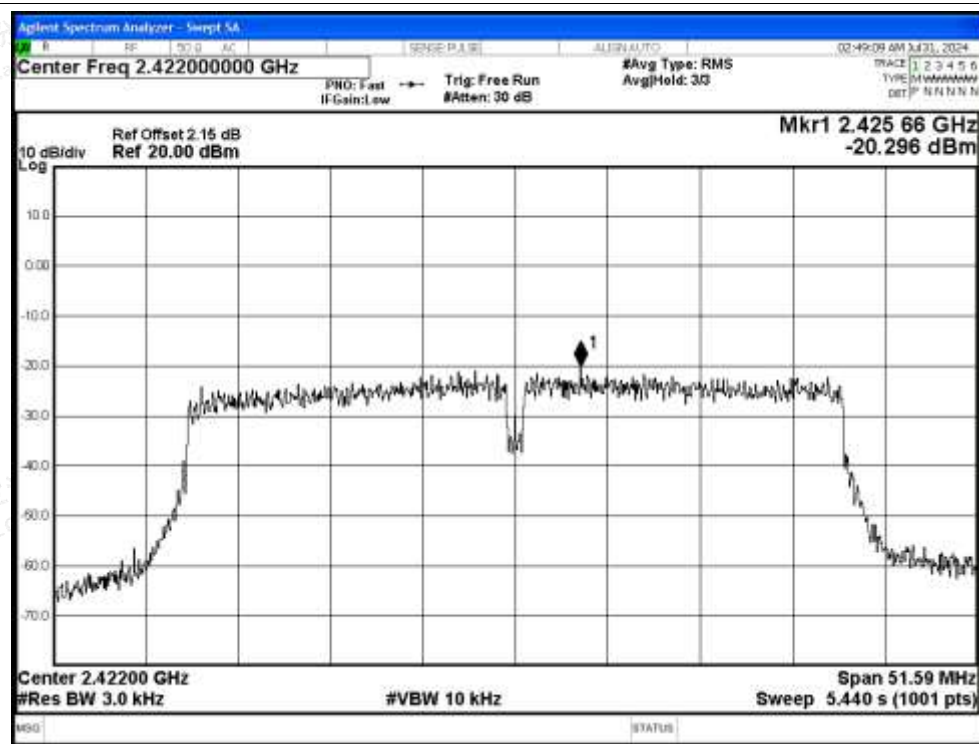
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PSD NVNT n20 2462MHz Ant



PSD NVNT n40 2422MHz Ant



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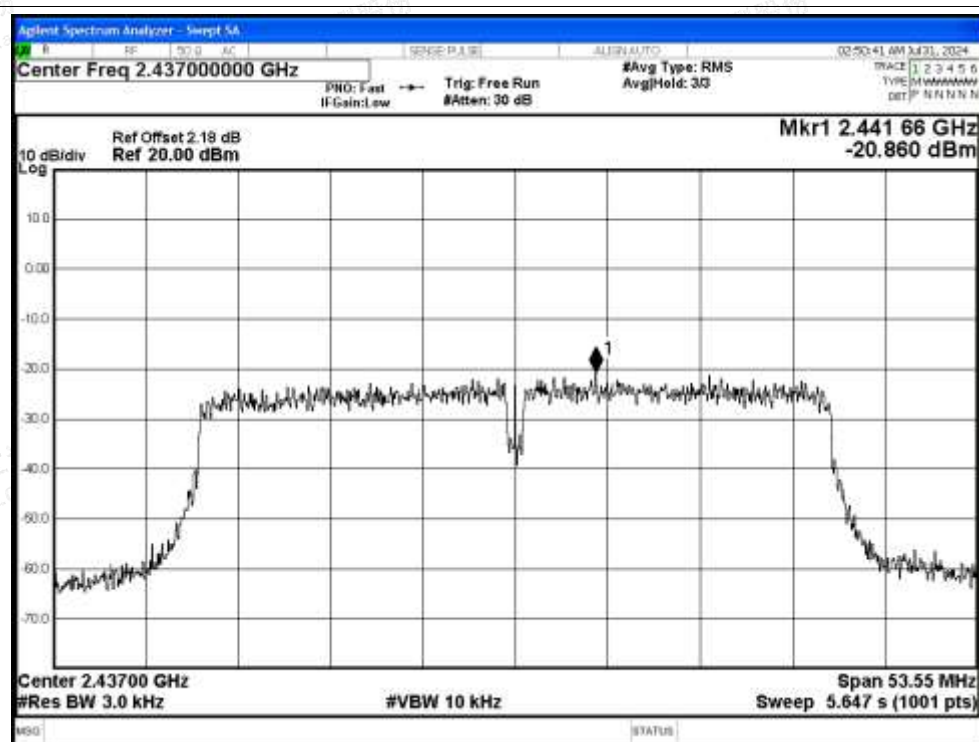
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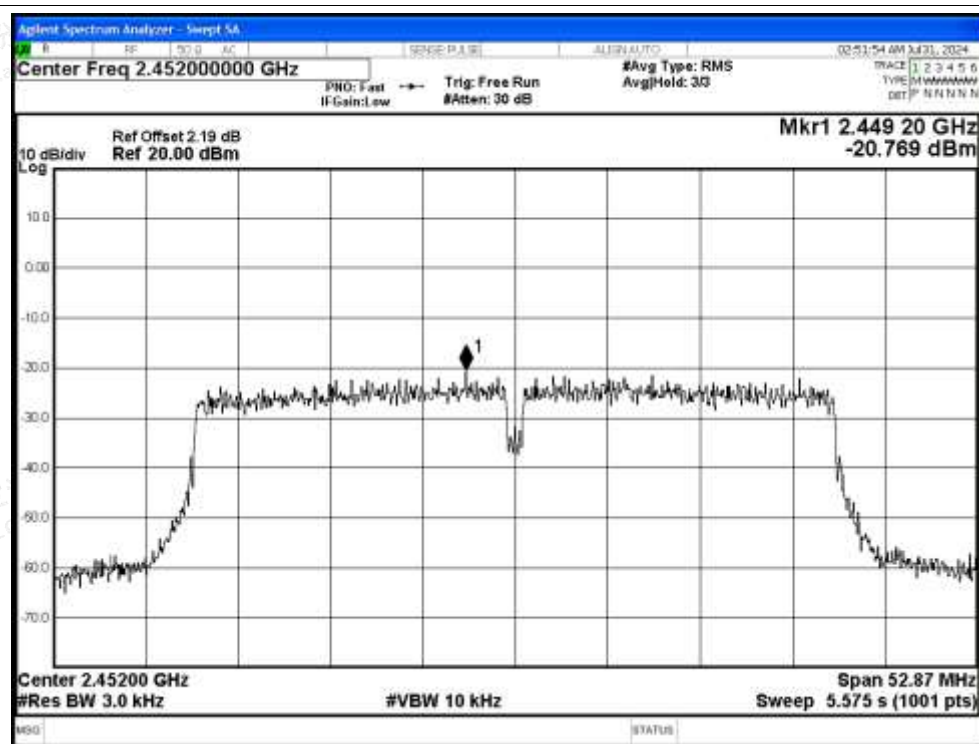
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PSD NVNT n40 2437MHz Ant



PSD NVNT n40 2452MHz Ant



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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-43.79	-20	Pass
NVNT	b	2462	Ant	-61.46	-20	Pass
NVNT	g	2412	Ant	-30.77	-20	Pass
NVNT	g	2462	Ant	-42.12	-20	Pass
NVNT	n20	2412	Ant	-32.46	-20	Pass
NVNT	n20	2462	Ant	-43.08	-20	Pass
NVNT	n40	2422	Ant	-35.03	-20	Pass
NVNT	n40	2452	Ant	-38.88	-20	Pass





Test Graphs

Band Edge NVNT b 2412MHz Ant Ref



Band Edge NVNT b 2412MHz Ant Emission



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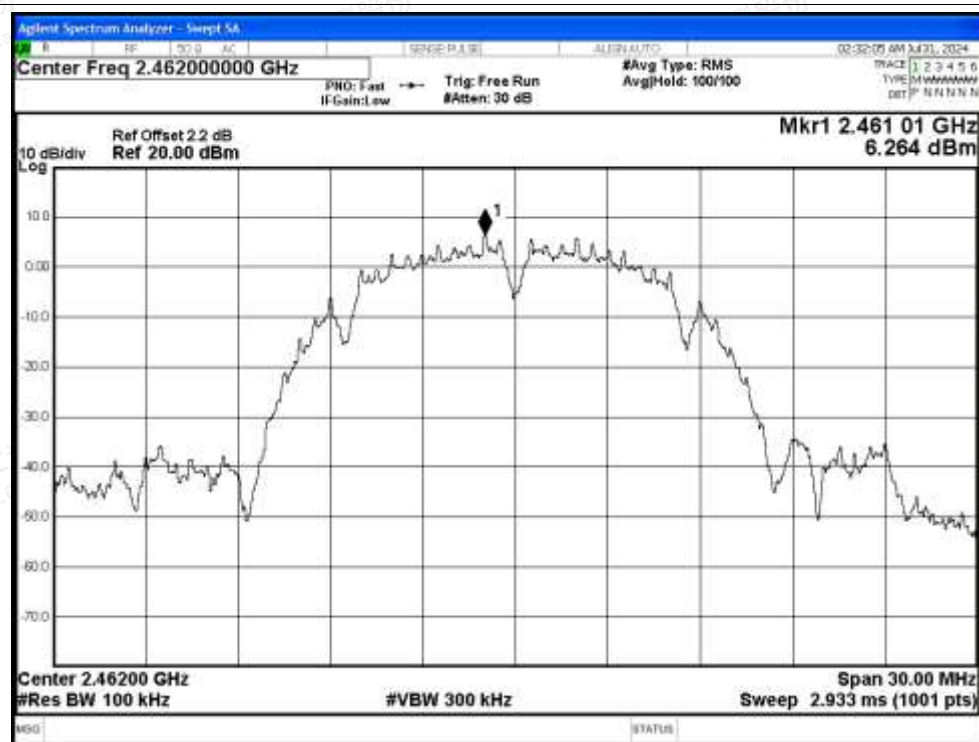
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Band Edge NVNT b 2462MHz Ant Ref



Band Edge NVNT b 2462MHz Ant Emission



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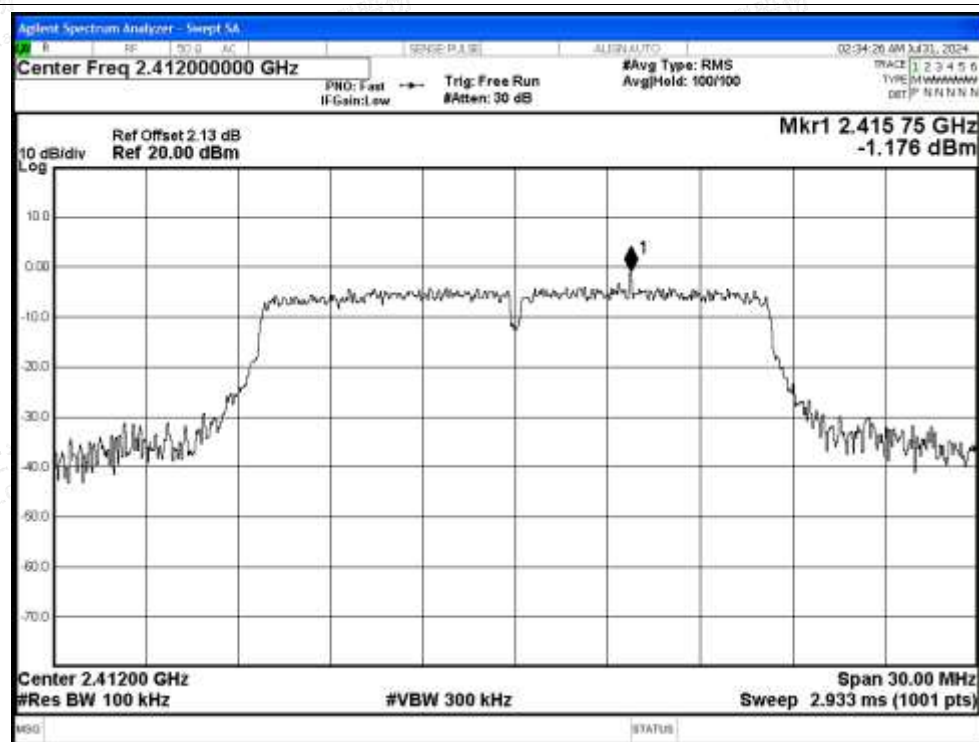
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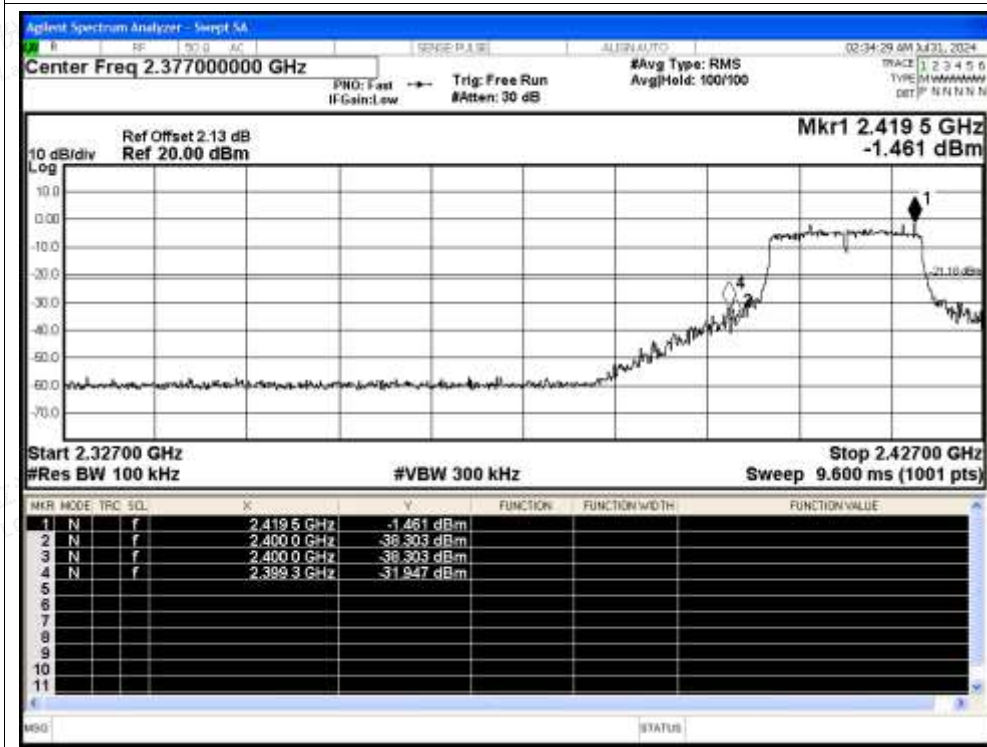
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Band Edge NVNT g 2412MHz Ant Ref



Band Edge NVNT g 2412MHz Ant Emission



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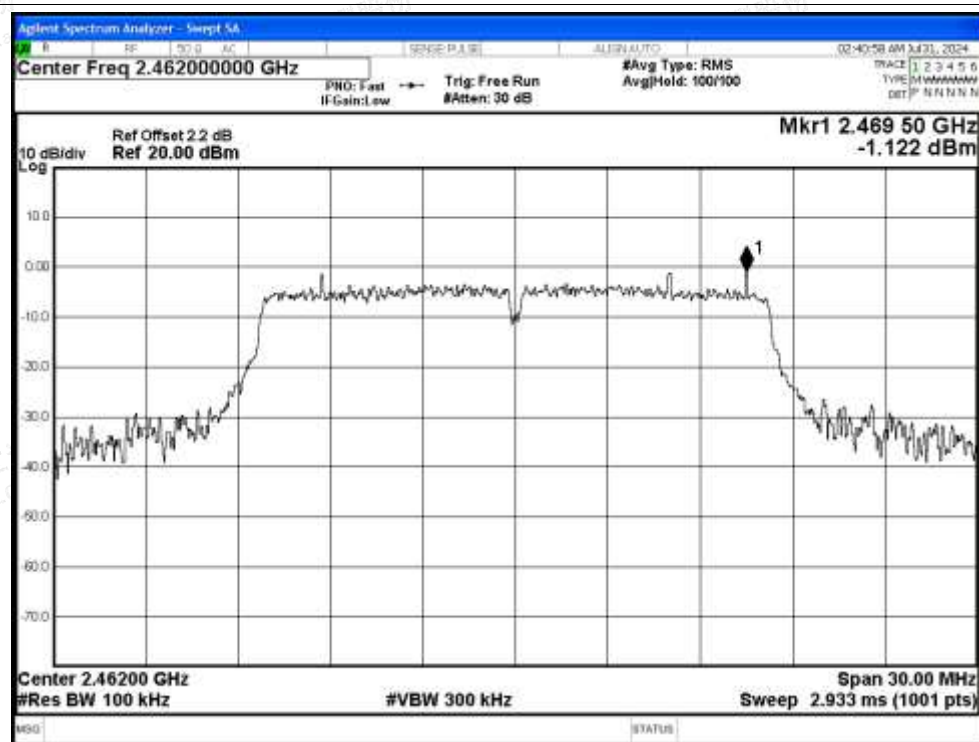
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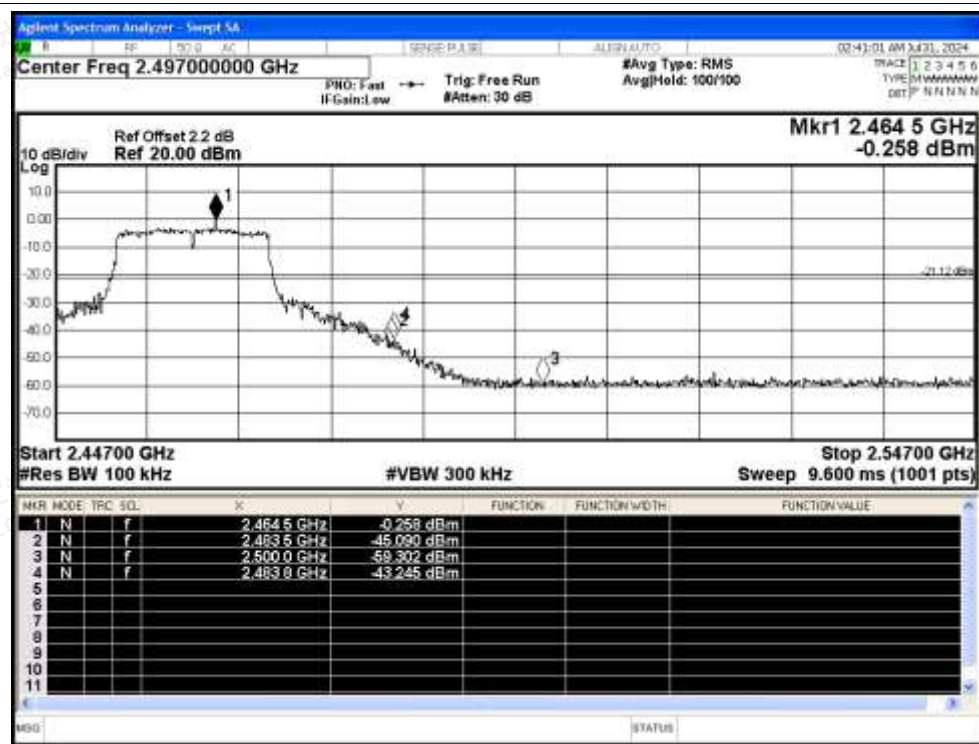
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Band Edge NVNT g 2462MHz Ant Ref



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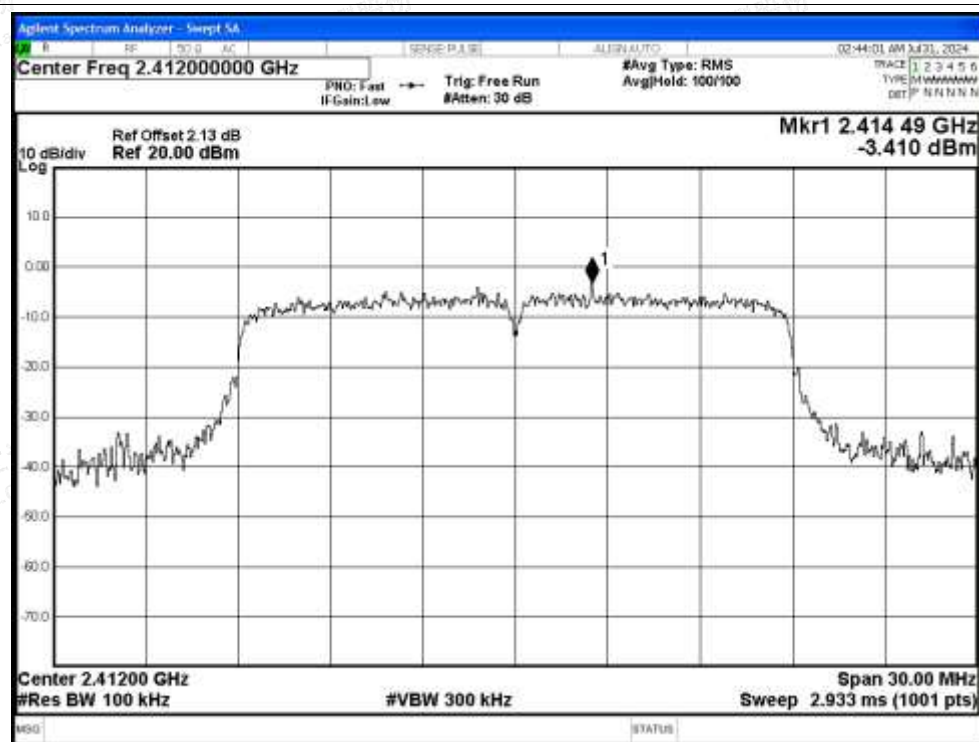
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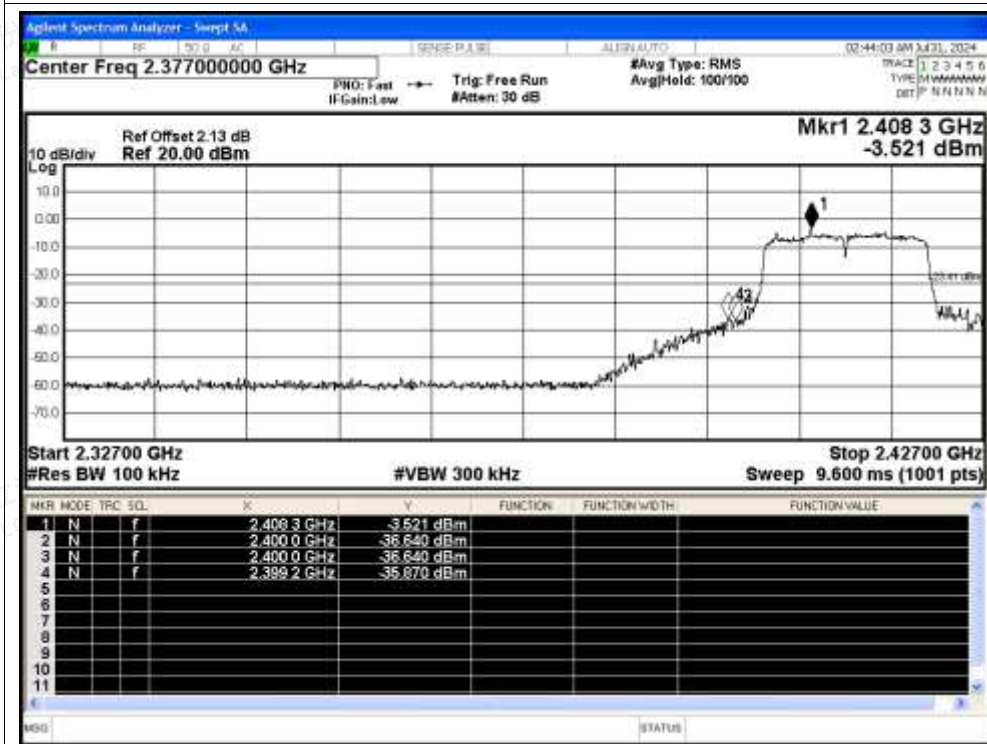
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Band Edge NVNT n20 2412MHz Ant Ref



Band Edge NVNT n20 2412MHz Ant Emission



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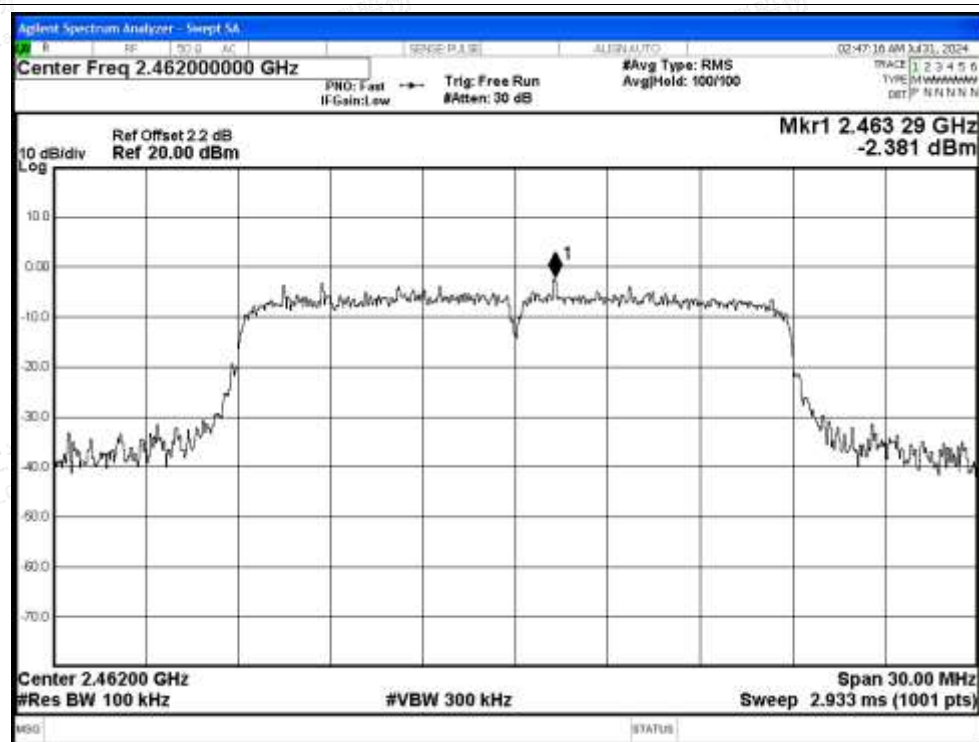
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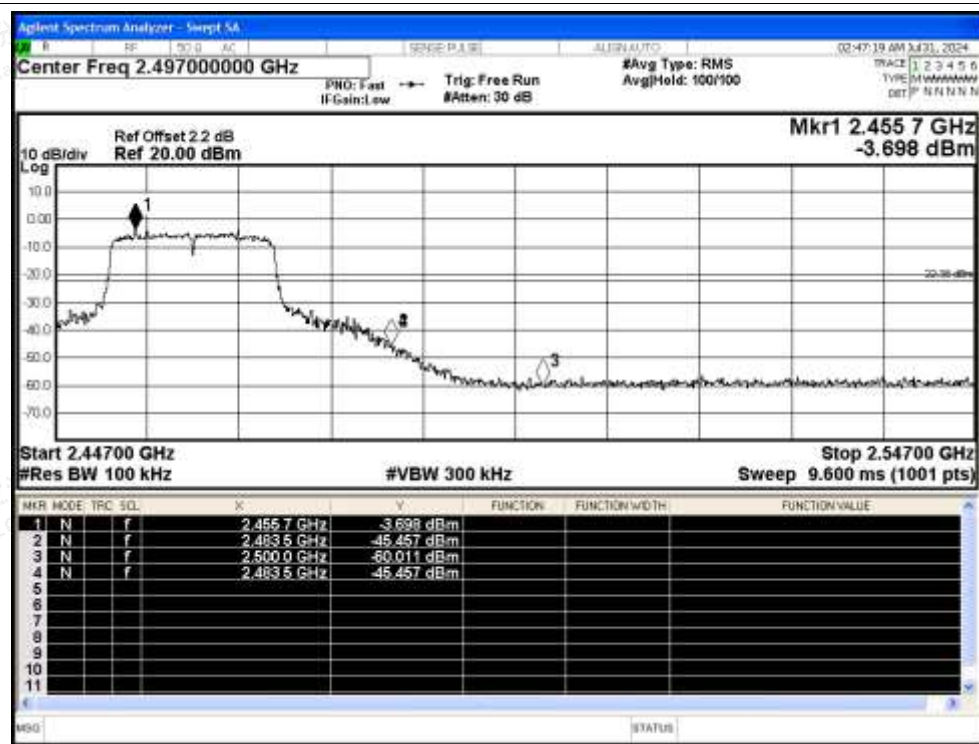
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Band Edge NVNT n20 2462MHz Ant Ref



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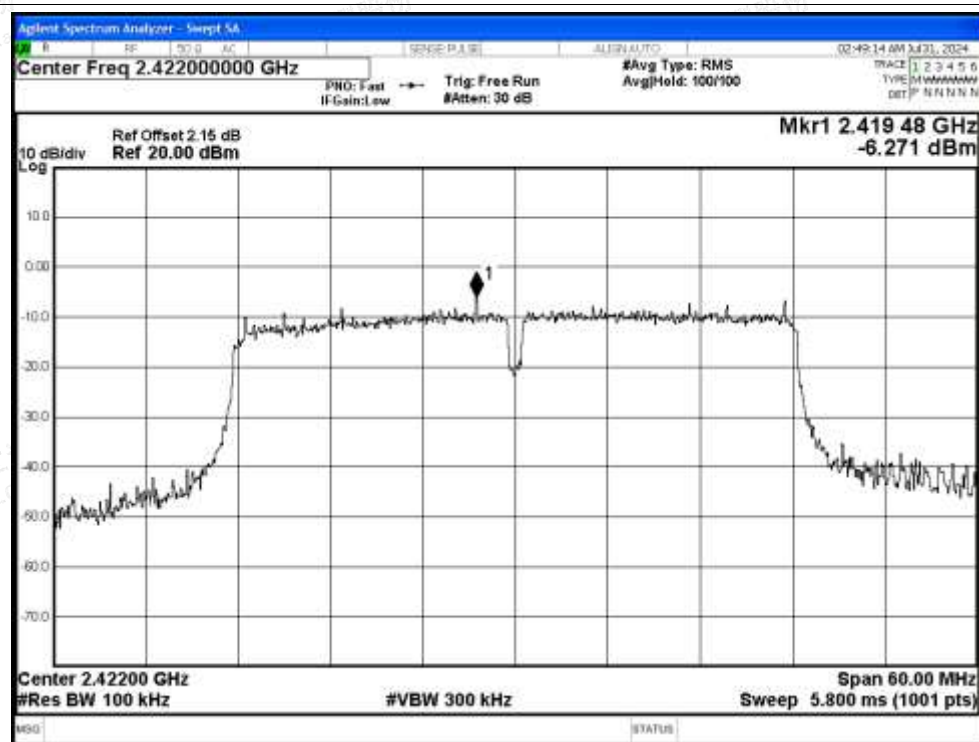
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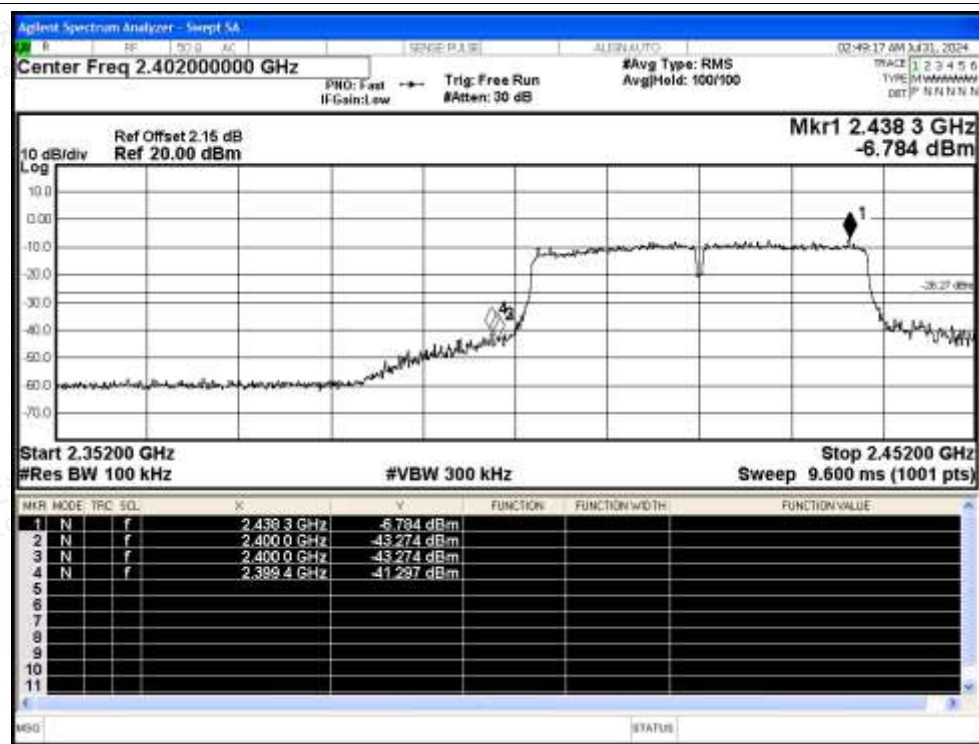
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Band Edge NVNT n40 2422MHz Ant Ref



Band Edge NVNT n40 2422MHz Ant Emission



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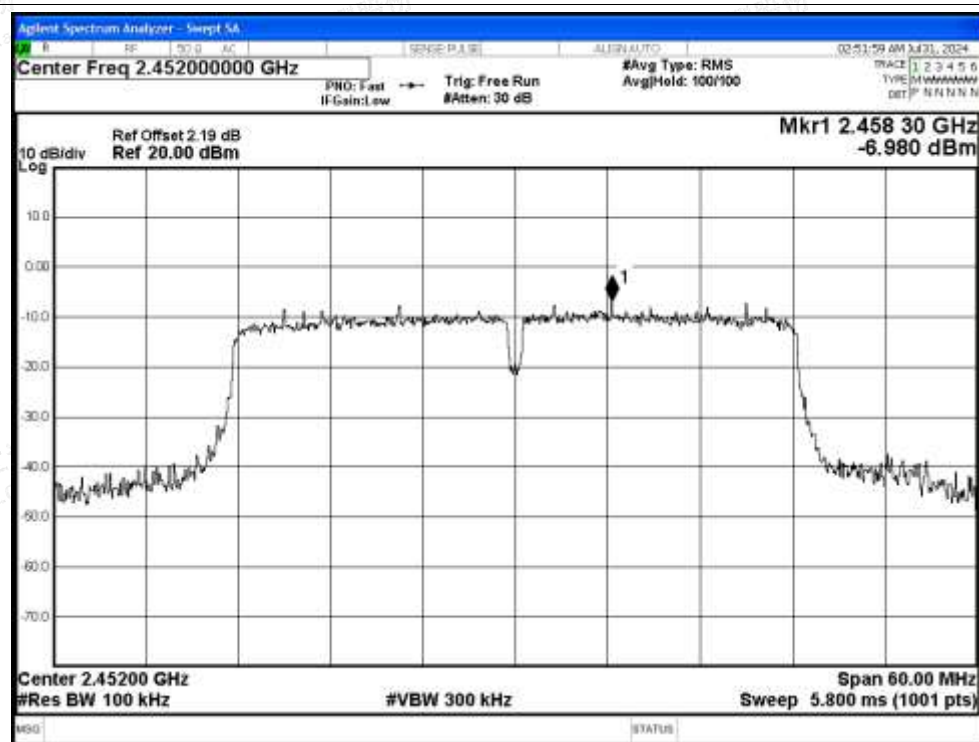
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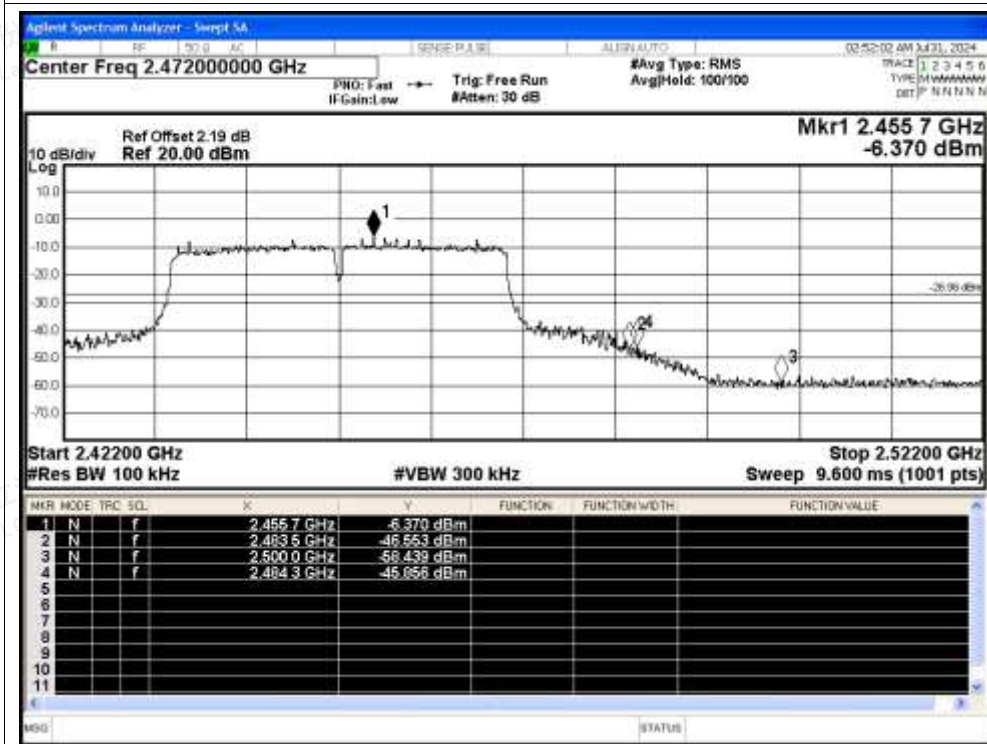
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Band Edge NVNT n40 2452MHz Ant Ref



Band Edge NVNT n40 2452MHz Ant Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-51.31	-20	Pass
NVNT	b	2437	Ant	-52.37	-20	Pass
NVNT	b	2462	Ant	-52.37	-20	Pass
NVNT	g	2412	Ant	-44.79	-20	Pass
NVNT	g	2437	Ant	-45.04	-20	Pass
NVNT	g	2462	Ant	-45.28	-20	Pass
NVNT	n20	2412	Ant	-42.67	-20	Pass
NVNT	n20	2437	Ant	-42.44	-20	Pass
NVNT	n20	2462	Ant	-43.4	-20	Pass
NVNT	n40	2422	Ant	-40.93	-20	Pass
NVNT	n40	2437	Ant	-39.56	-20	Pass
NVNT	n40	2452	Ant	-39.52	-20	Pass



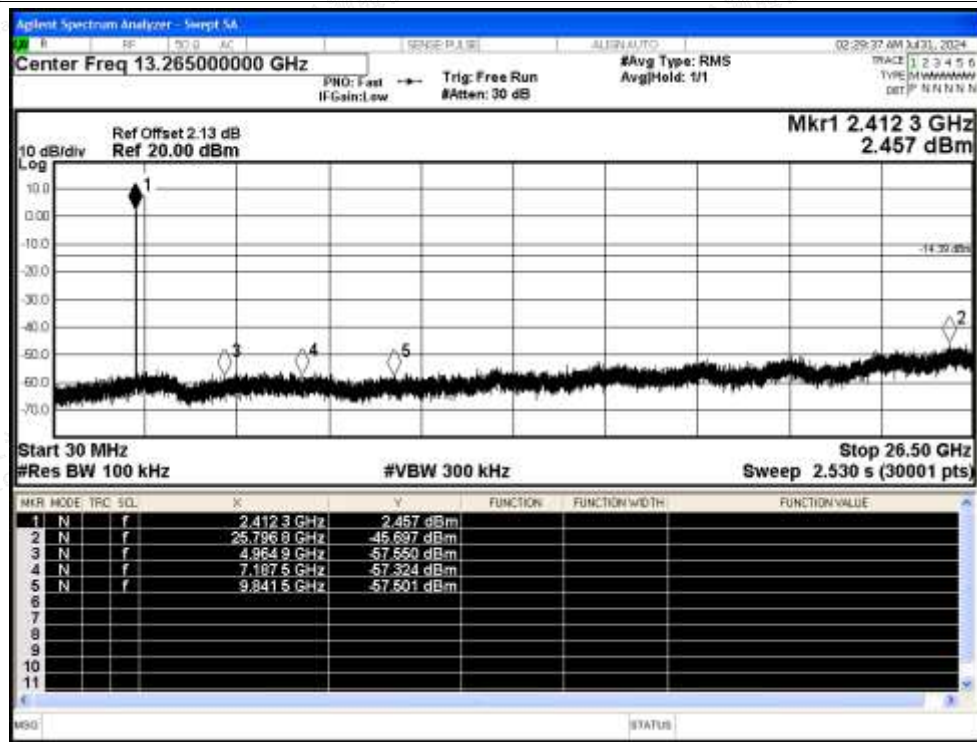


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant Ref



Tx. Spurious NVNT b 2412MHz Ant Emission



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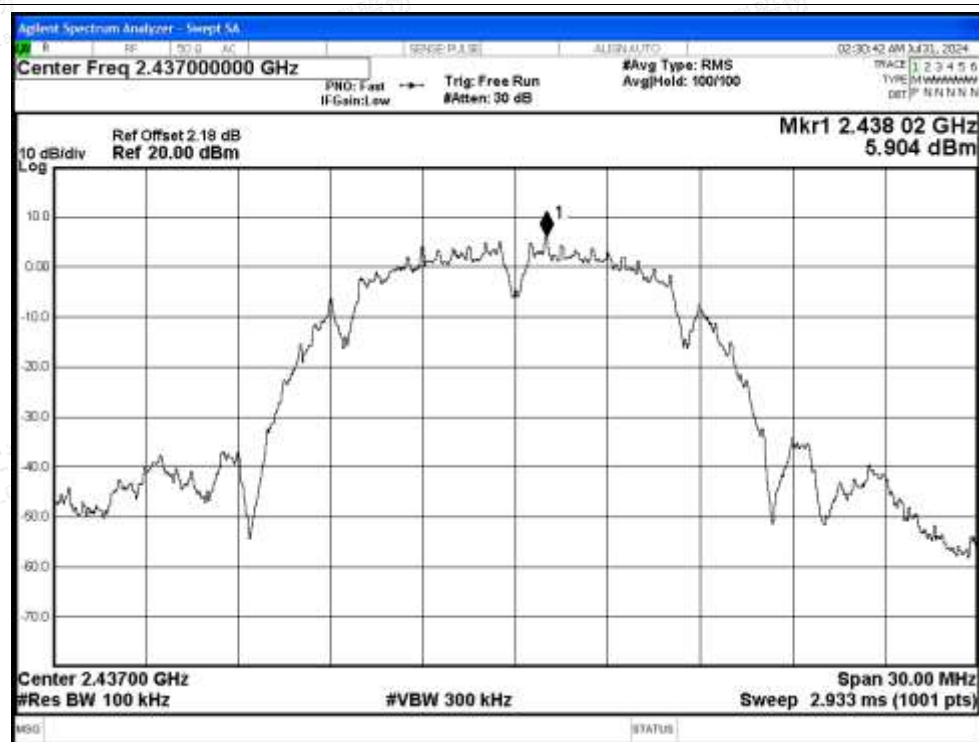
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

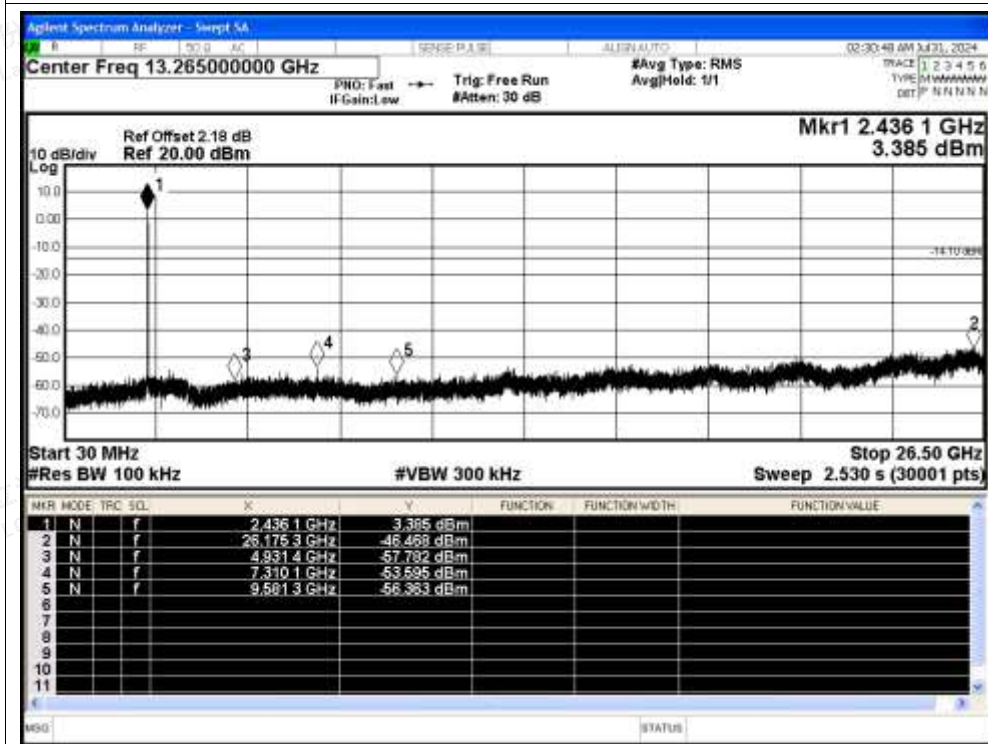
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Tx. Spurious NVNT b 2437MHz Ant Ref



Tx. Spurious NVNT b 2437MHz Ant Emission



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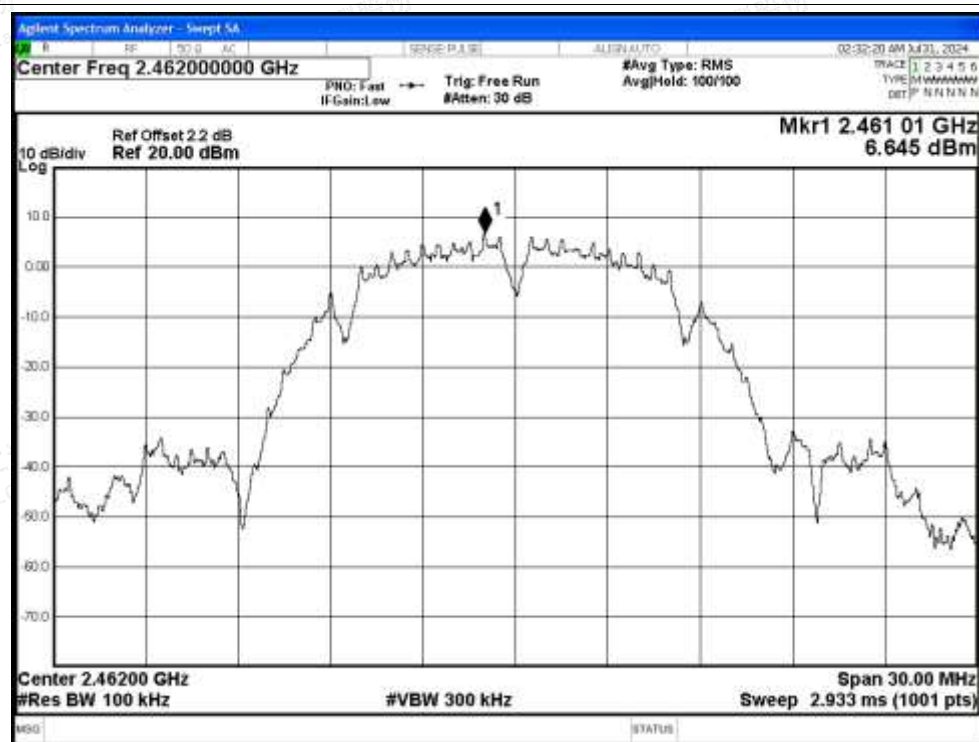
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

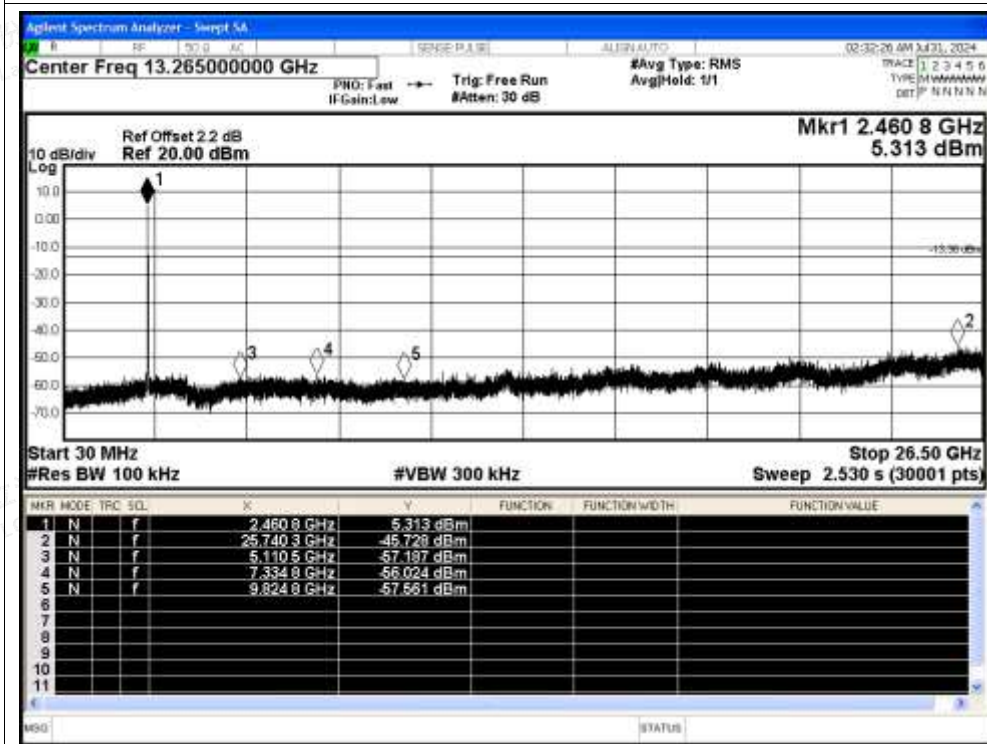
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Tx. Spurious NVNT b 2462MHz Ant Ref



Tx. Spurious NVNT b 2462MHz Ant Emission



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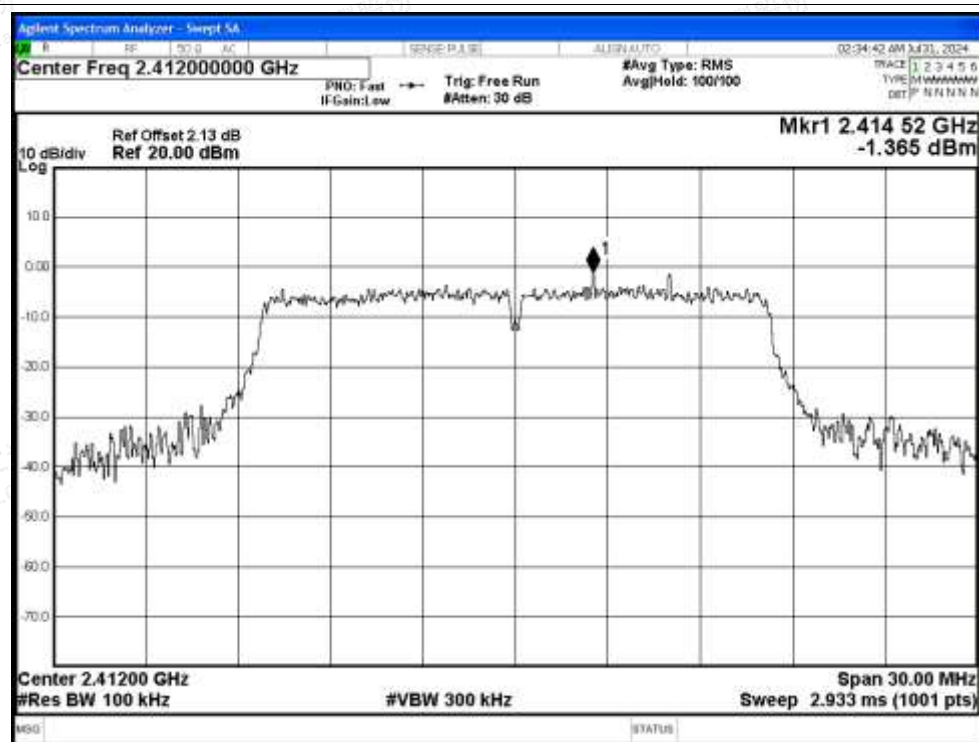
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

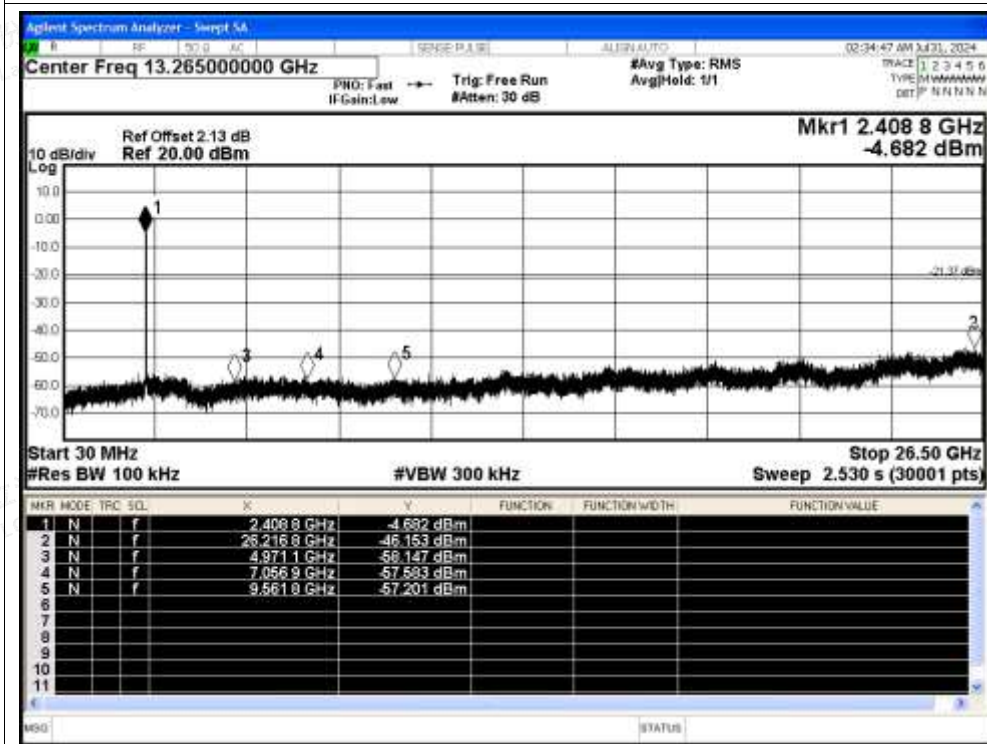
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant Ref



Tx. Spurious NVNT g 2412MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

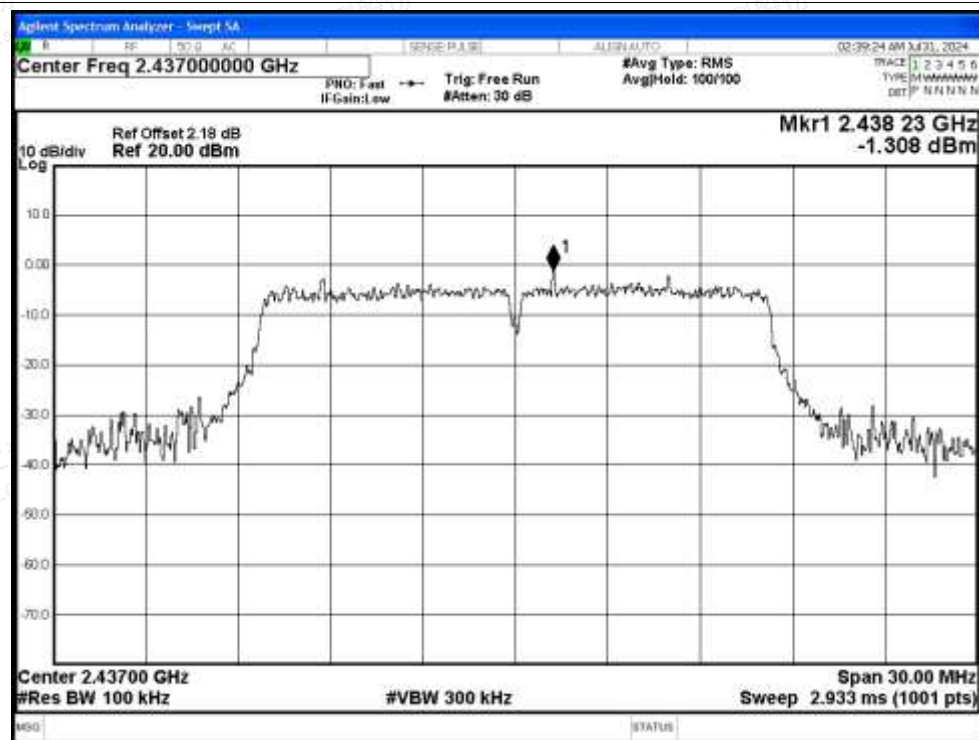
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

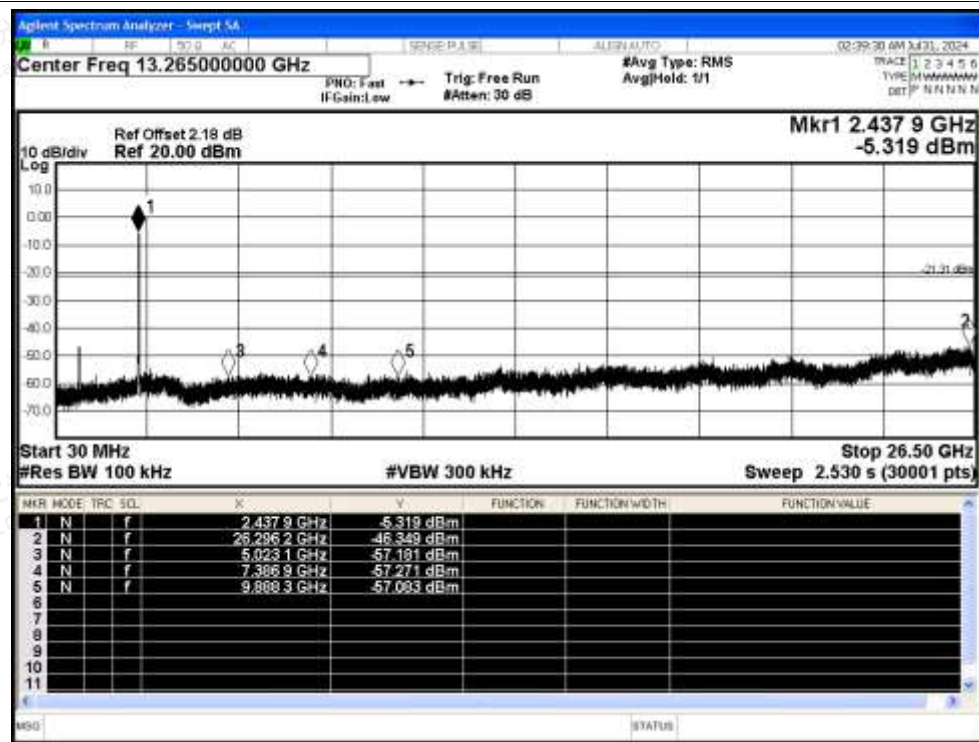
Scan code to check authenticity



Tx. Spurious NVNT g 2437MHz Ant Ref



Tx. Spurious NVNT g 2437MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

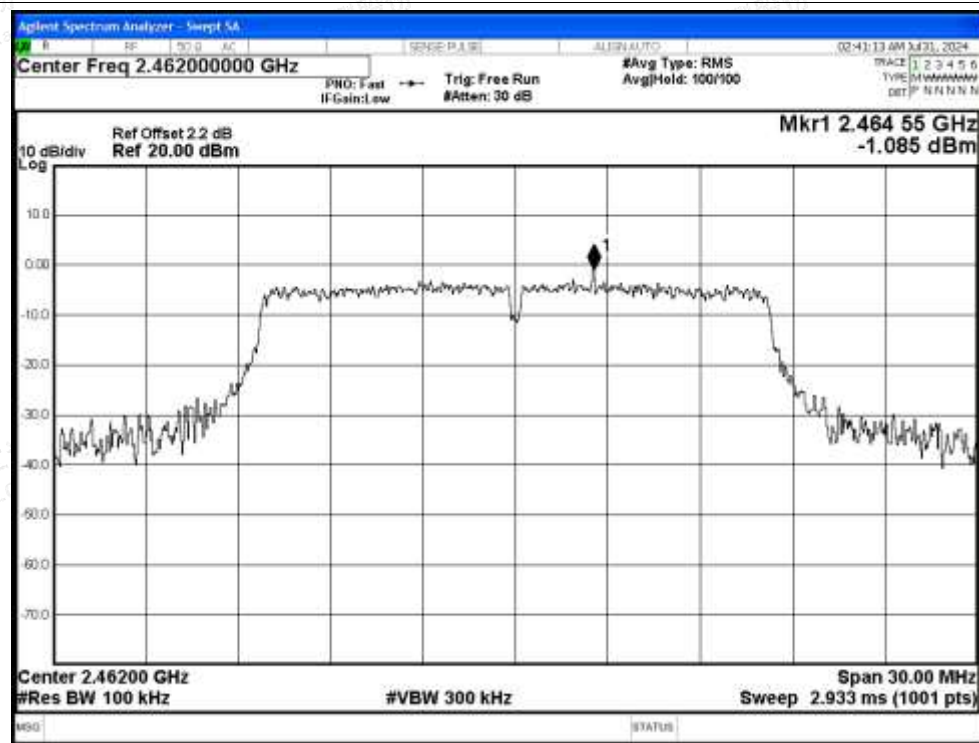
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

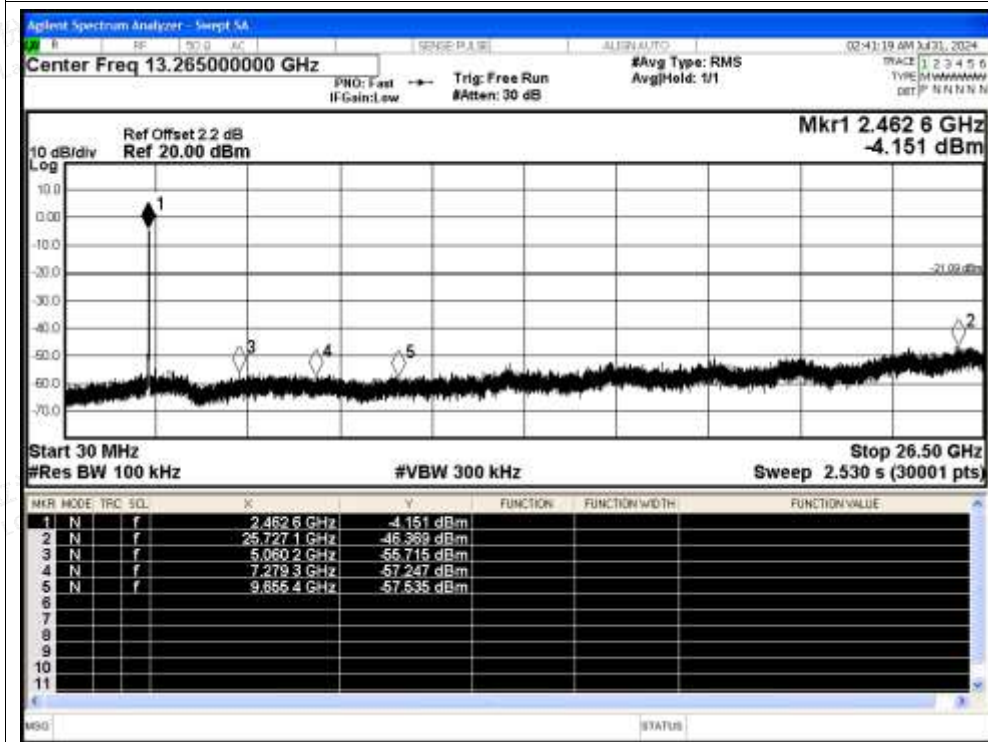
Scan code to check authenticity



Tx. Spurious NVNT g 2462MHz Ant Ref



Tx. Spurious NVNT g 2462MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

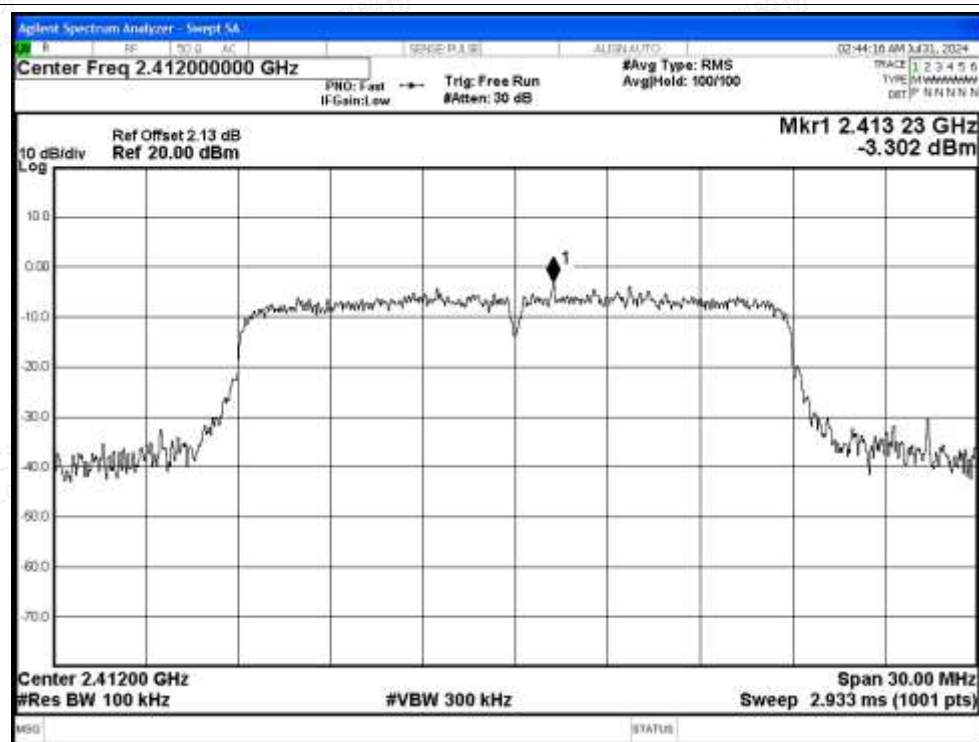
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

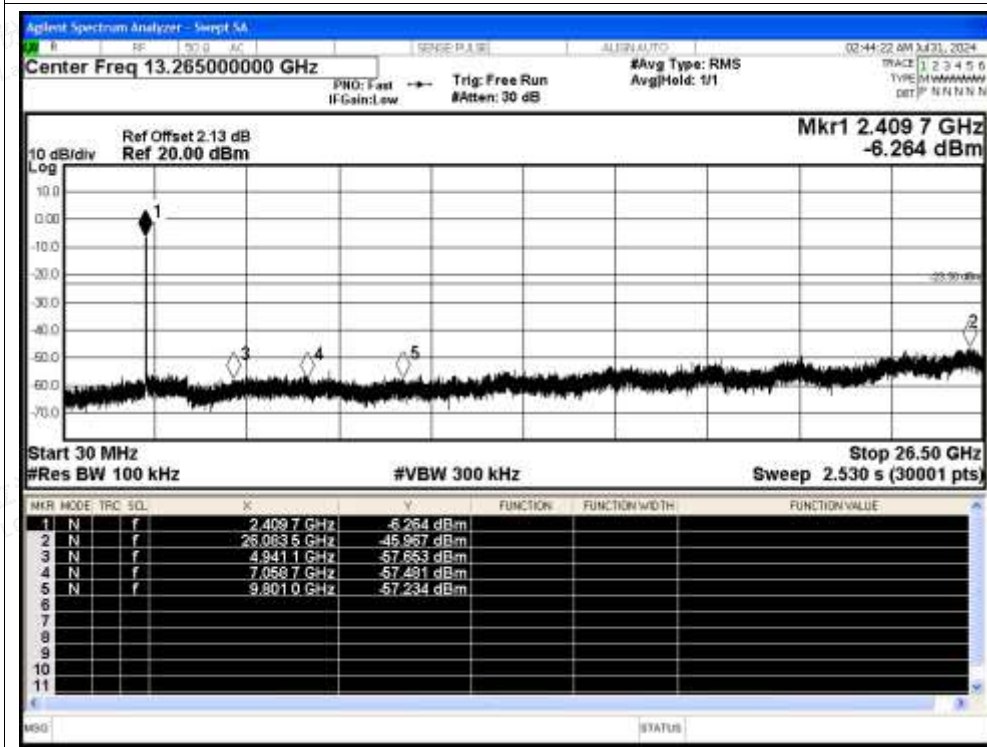
Scan code to check authenticity



Tx. Spurious NVNT n20 2412MHz Ant Ref



Tx. Spurious NVNT n20 2412MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

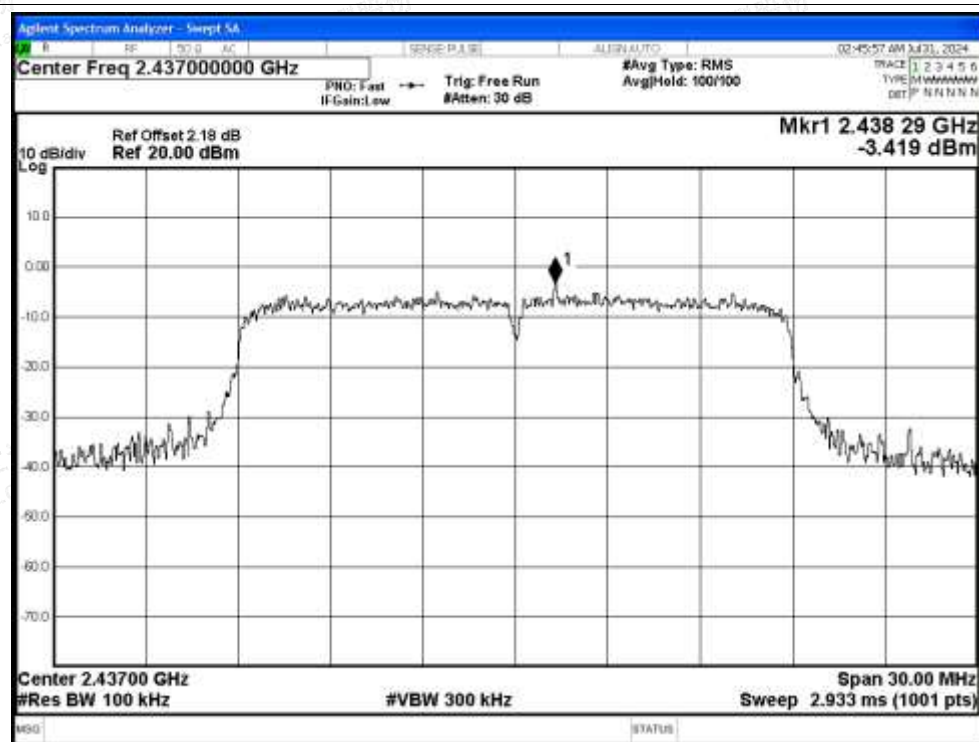
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

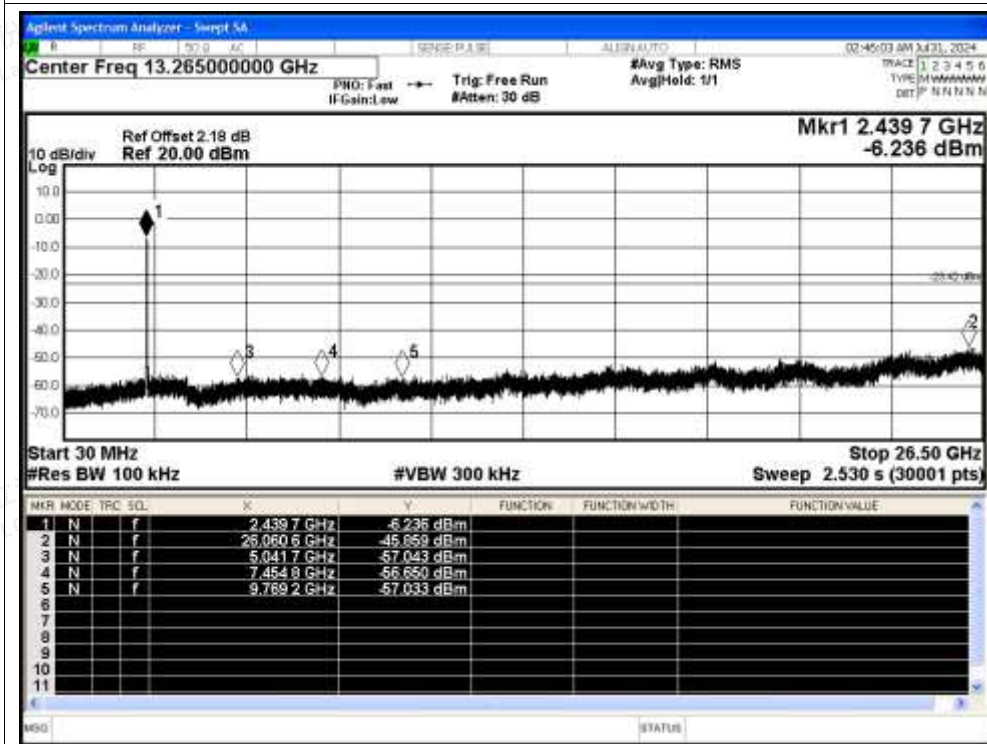
Scan code to check authenticity



Tx. Spurious NVNT n20 2437MHz Ant Ref



Tx. Spurious NVNT n20 2437MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

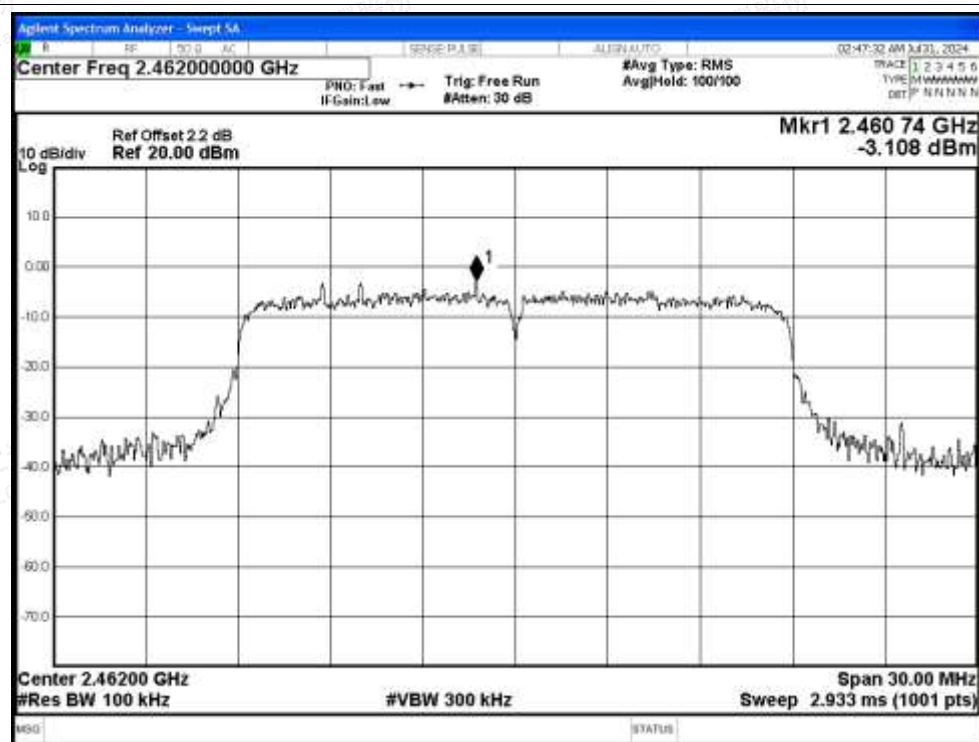
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

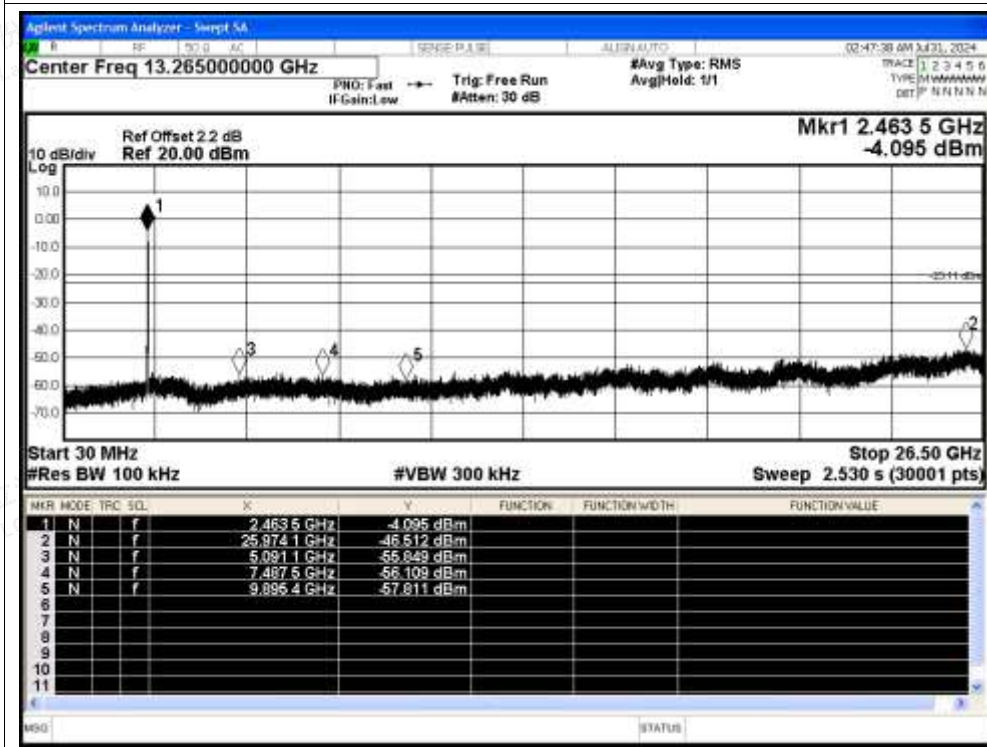
Scan code to check authenticity



Tx. Spurious NVNT n20 2462MHz Ant Ref



Tx. Spurious NVNT n20 2462MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

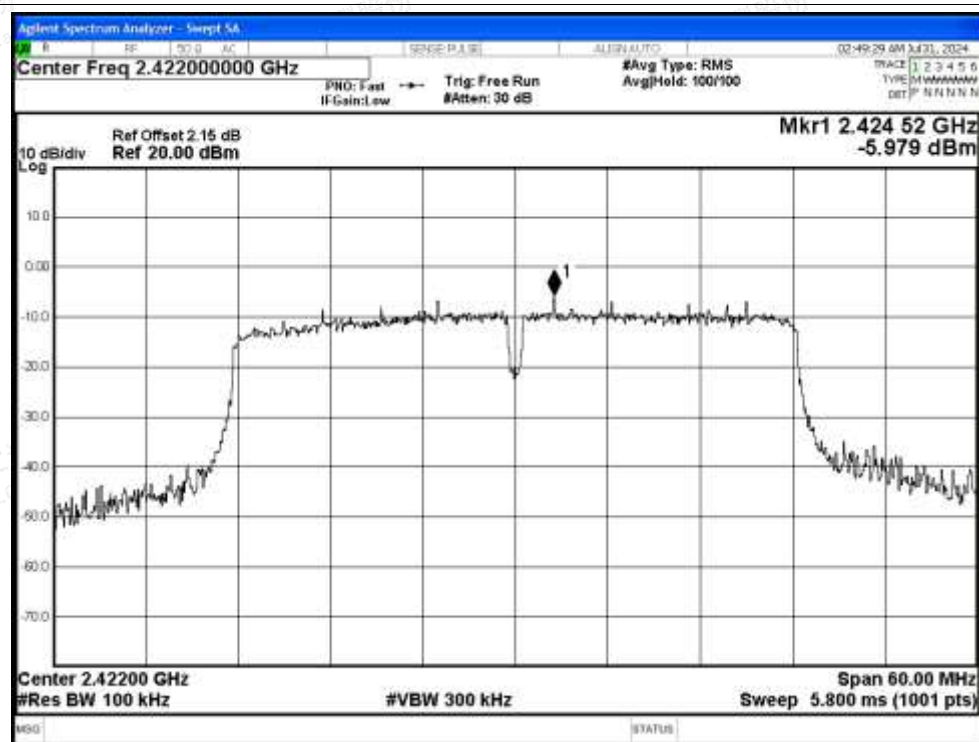
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

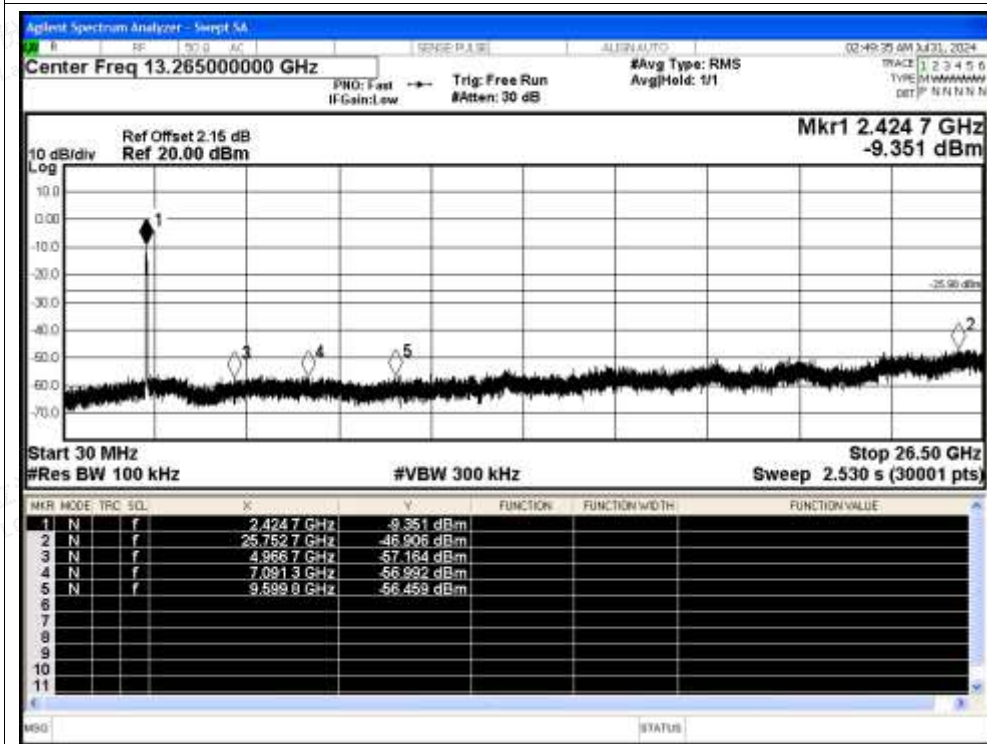
Scan code to check authenticity



Tx. Spurious NVNT n40 2422MHz Ant Ref



Tx. Spurious NVNT n40 2422MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

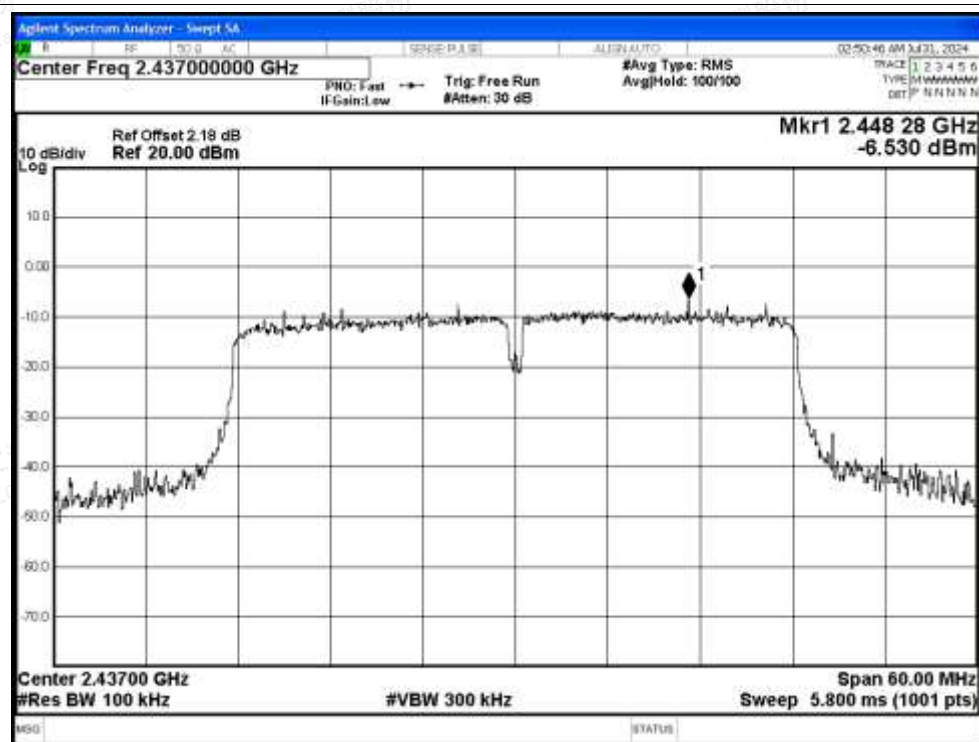
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

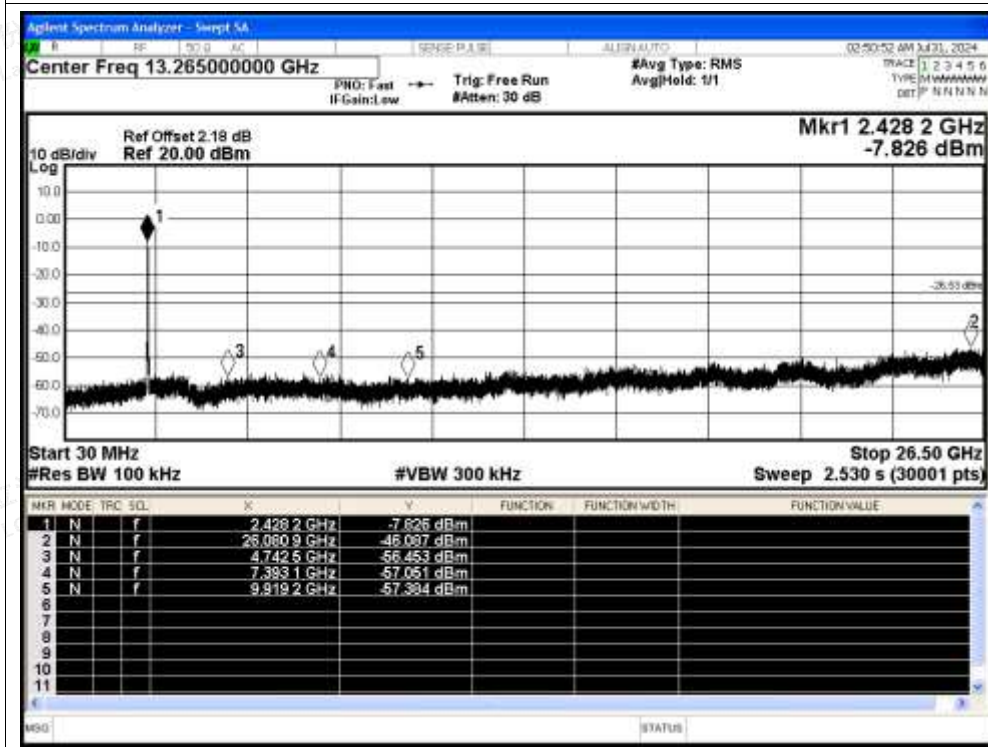
Scan code to check authenticity



Tx. Spurious NVNT n40 2437MHz Ant Ref



Tx. Spurious NVNT n40 2437MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

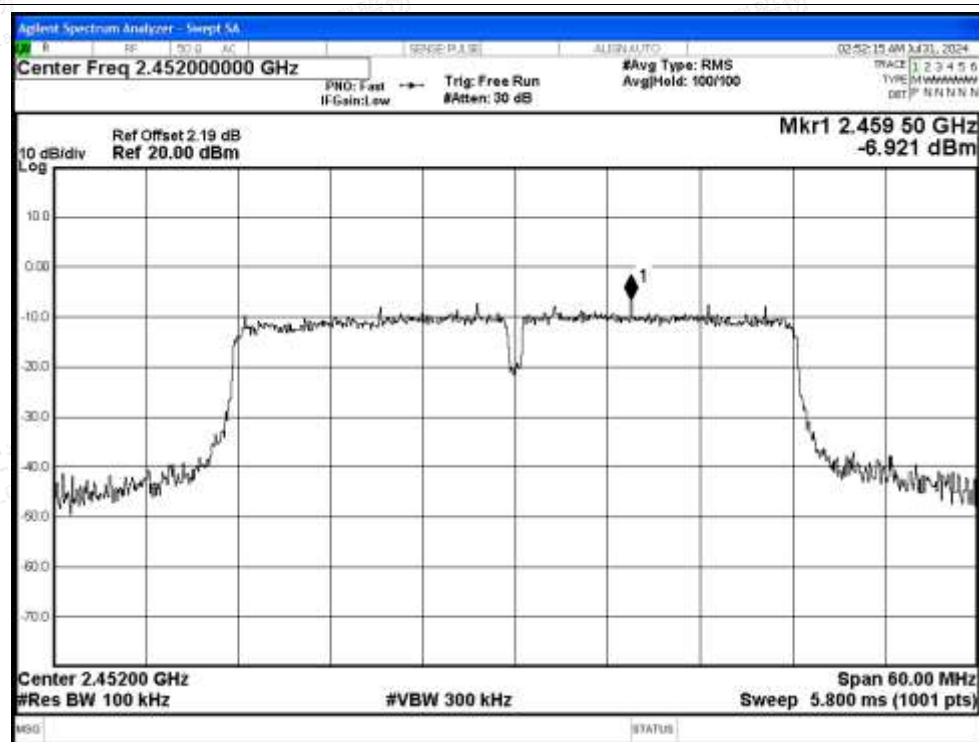
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

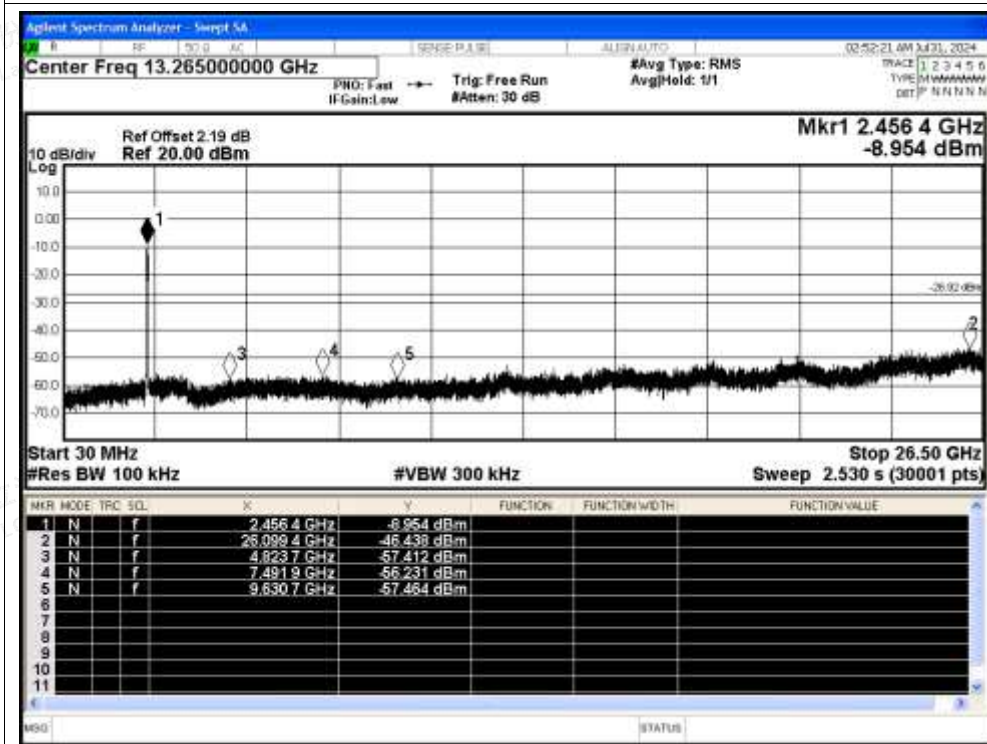
Scan code to check authenticity



Tx. Spurious NVNT n40 2452MHz Ant Ref



Tx. Spurious NVNT n40 2452MHz Ant 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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B.6 Duty Cycle

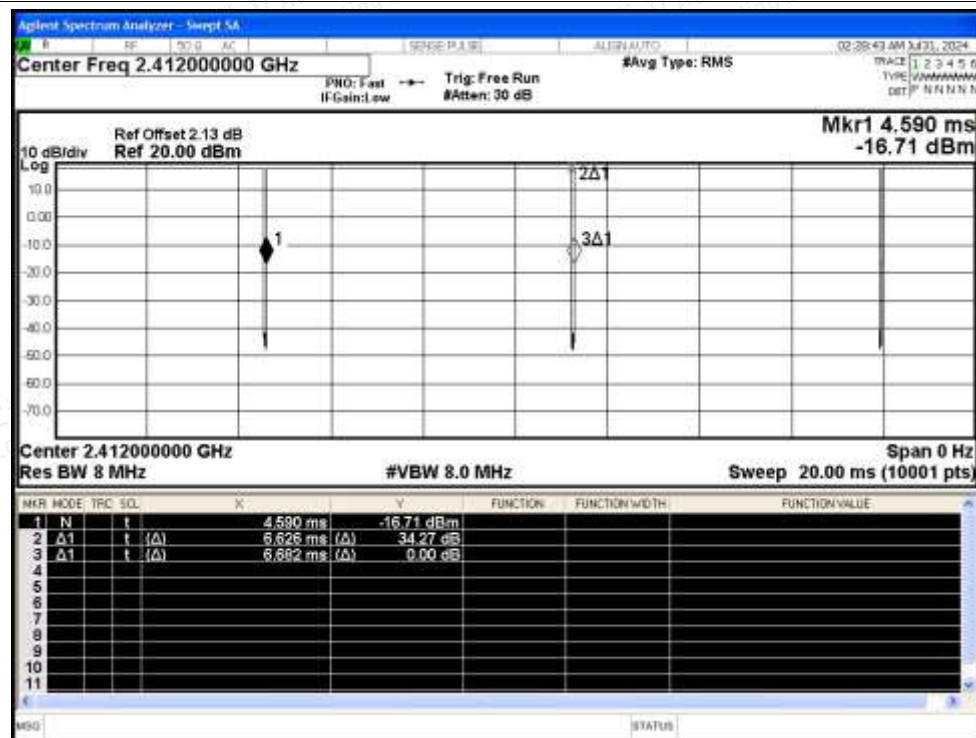
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant	99.16	0	0.15
NVNT	b	2437	Ant	99.13	0	0.15
NVNT	b	2462	Ant	99.13	0	0.15
NVNT	g	2412	Ant	98.82	0	0.19
NVNT	g	2437	Ant	98.86	0	0.19
NVNT	g	2462	Ant	98.86	0	0.19
NVNT	n20	2412	Ant	98.63	0	0.22
NVNT	n20	2437	Ant	98.59	0	0.22
NVNT	n20	2462	Ant	98.63	0	0.22
NVNT	n40	2422	Ant	97.14	0.13	0.46
NVNT	n40	2437	Ant	97.23	0.12	0.46
NVNT	n40	2452	Ant	97.23	0.12	0.46



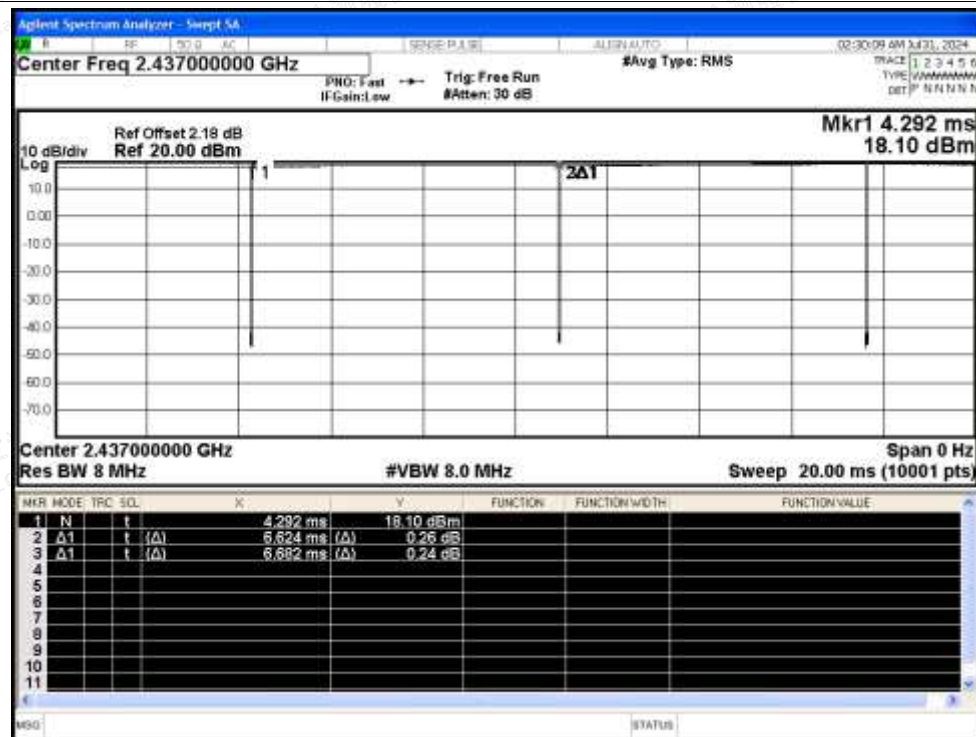


Test Graphs

Duty Cycle NVNT b 2412MHz Ant



Duty Cycle NVNT b 2437MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

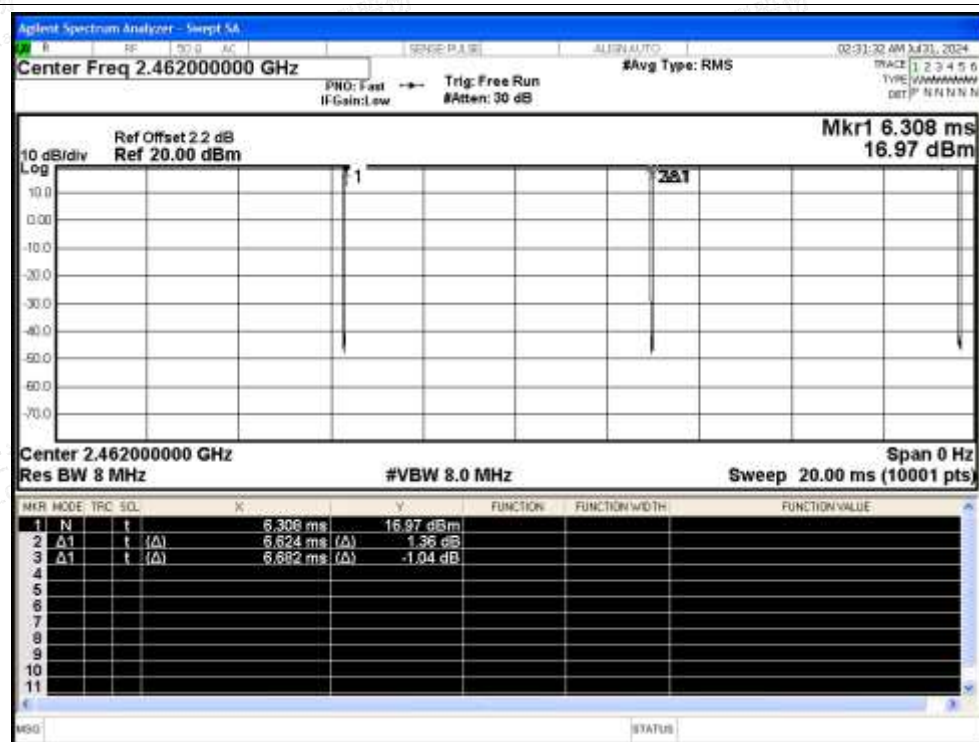
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

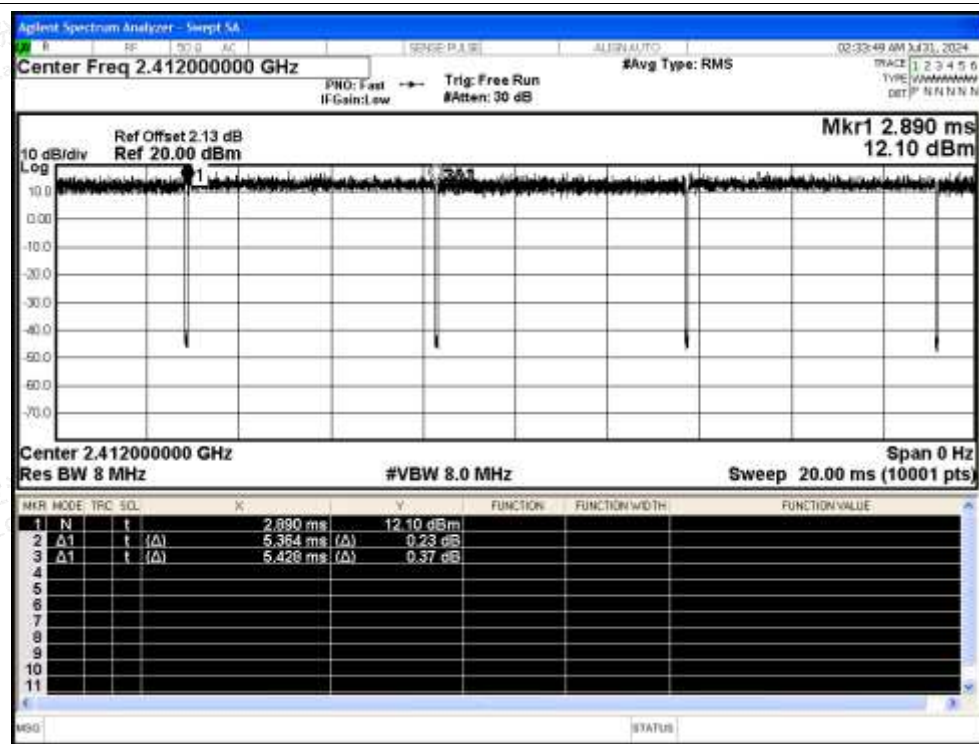
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant



Duty Cycle NVNT g 2412MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

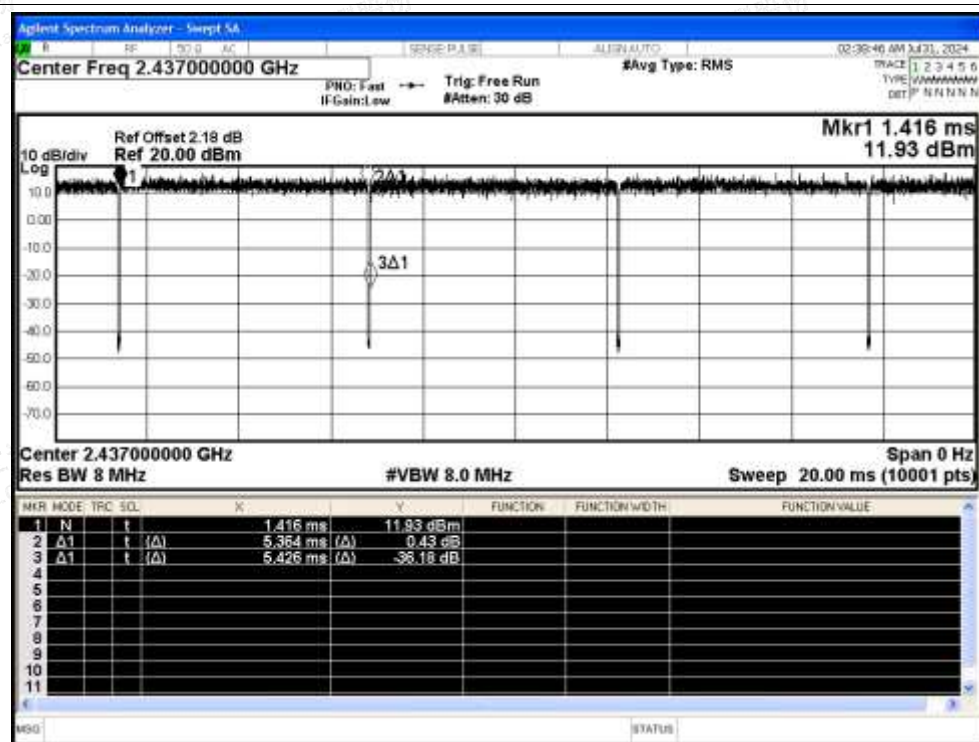
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

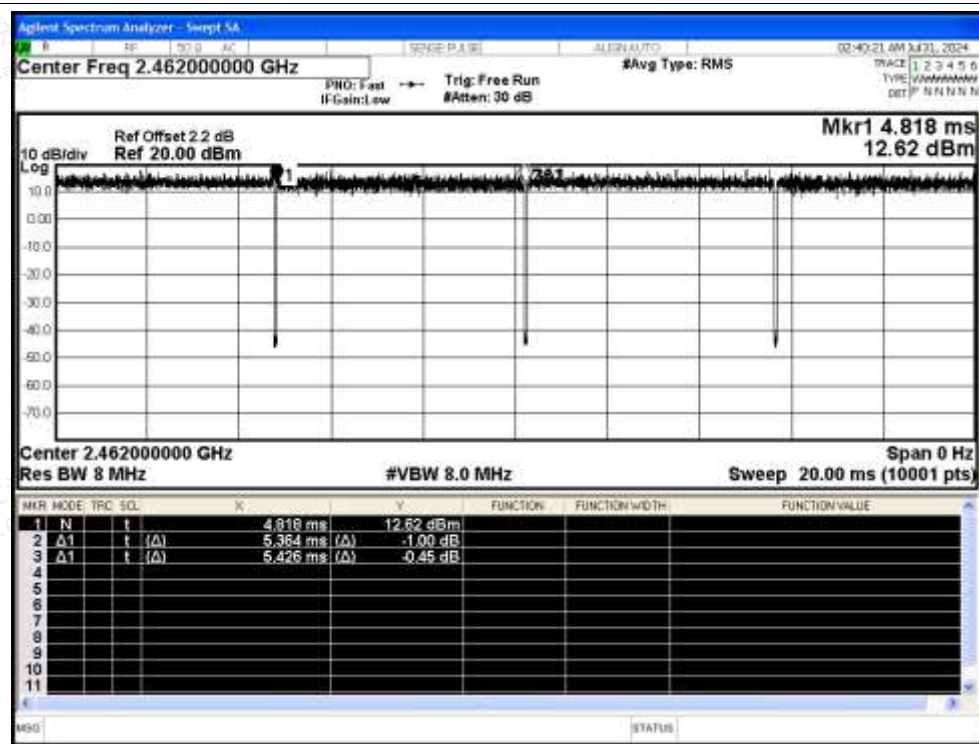
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant



Duty Cycle NVNT g 2462MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

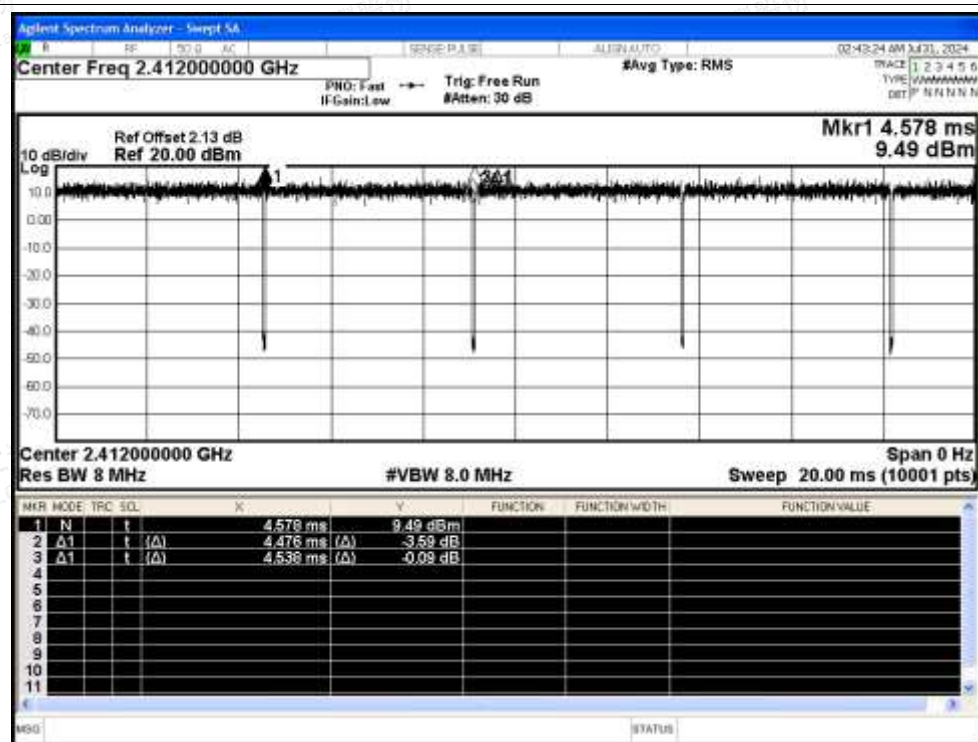
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

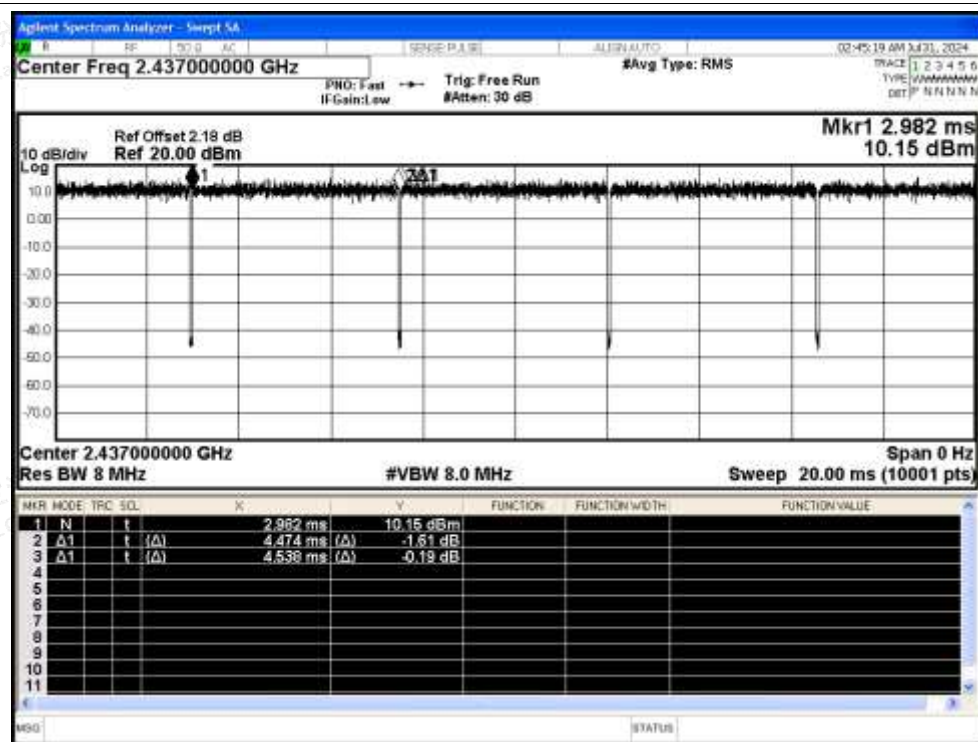
Scan code to check authenticity



Duty Cycle NVNT n20 2412MHz Ant



Duty Cycle NVNT n20 2437MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

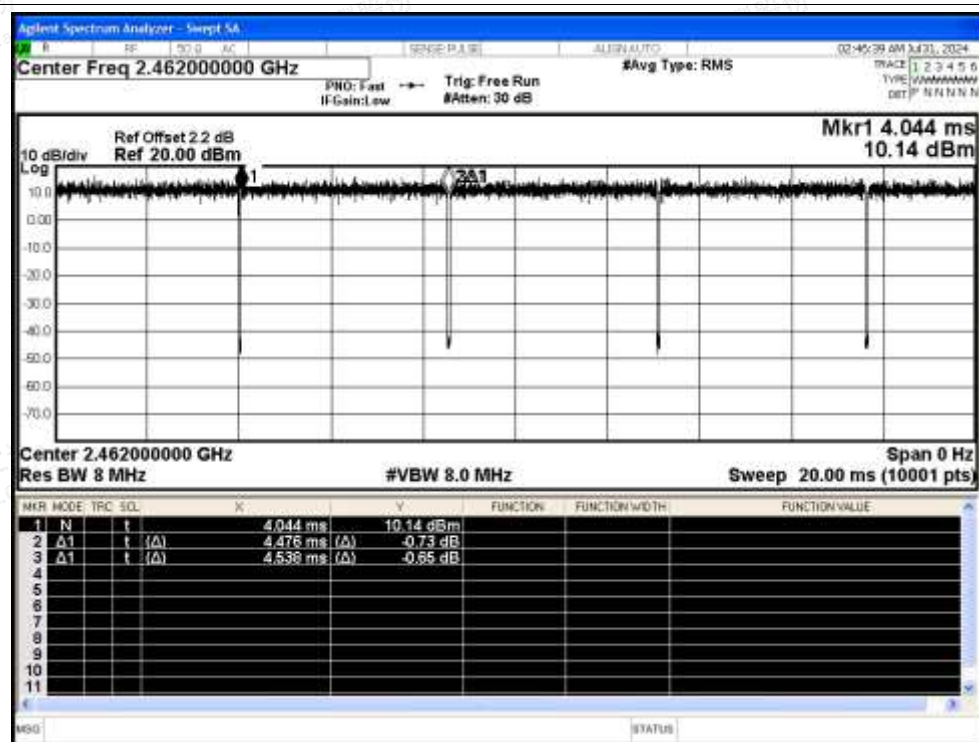
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

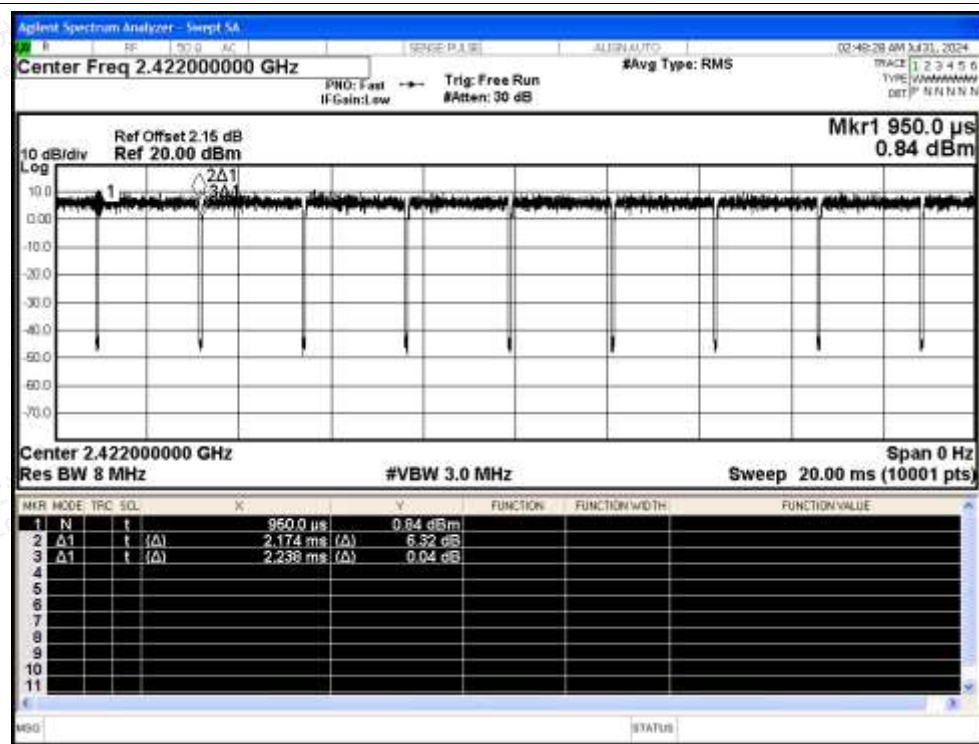
Scan code to check authenticity



Duty Cycle NVNT n20 2462MHz Ant



Duty Cycle NVNT n40 2422MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

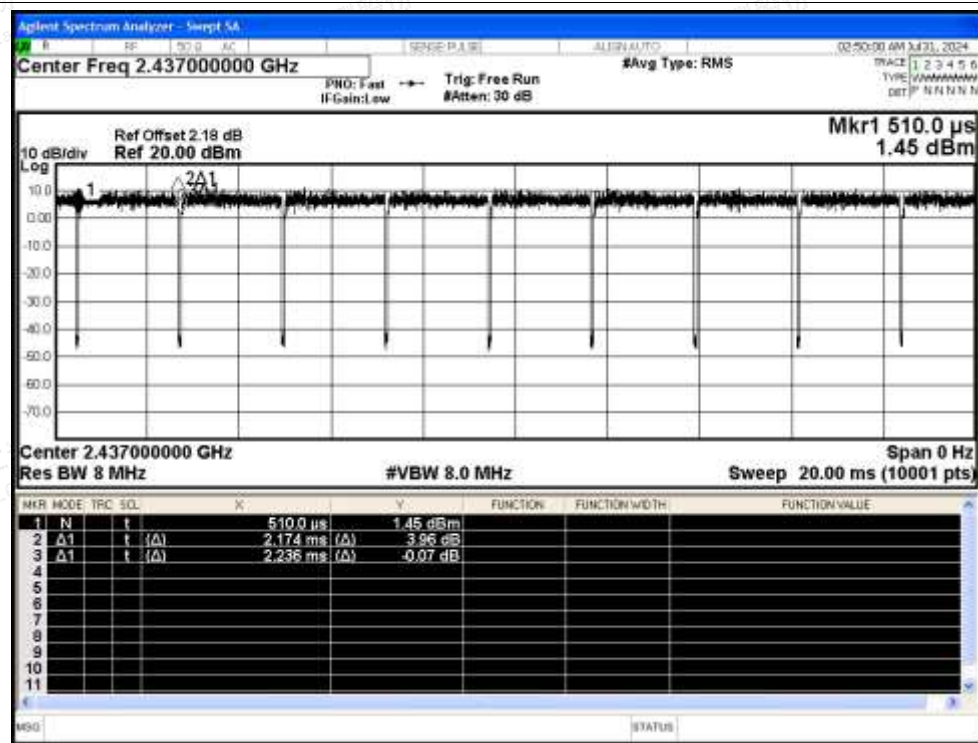
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

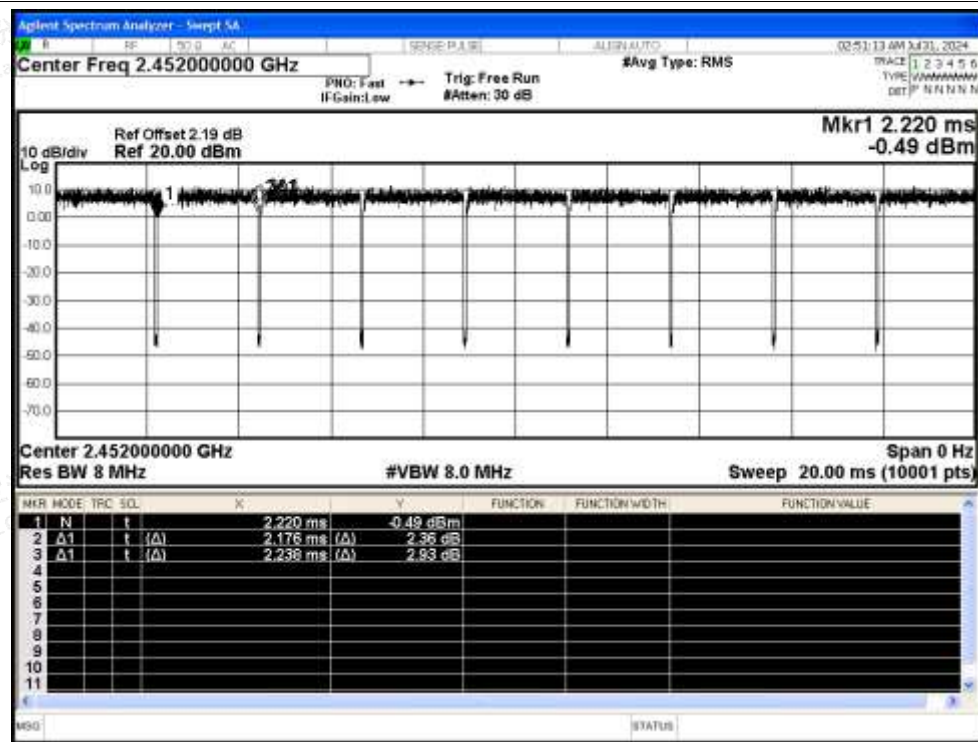
Scan code to check authenticity



Duty Cycle NVNT n40 2437MHz Ant



Duty Cycle NVNT n40 2452MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

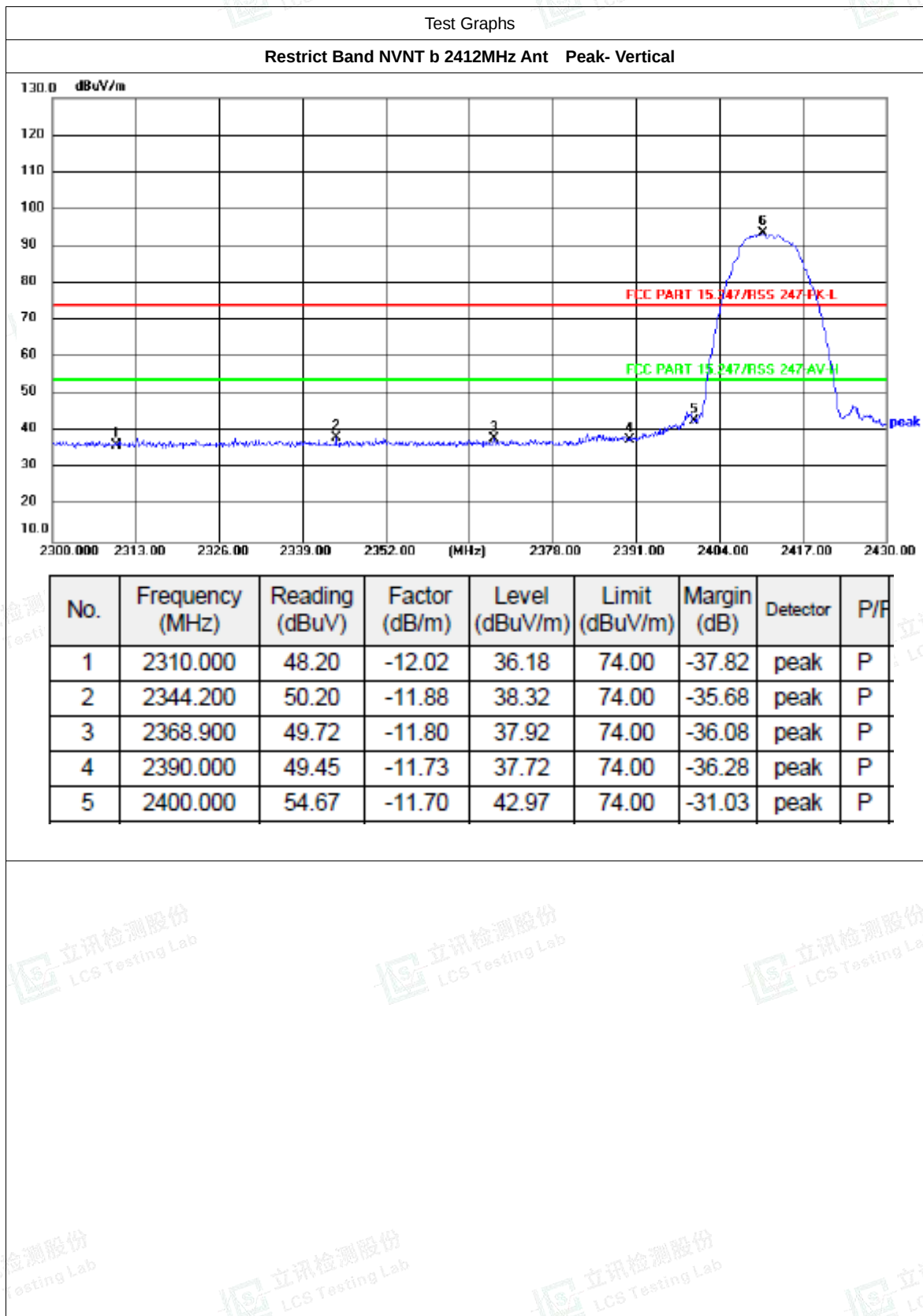
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity



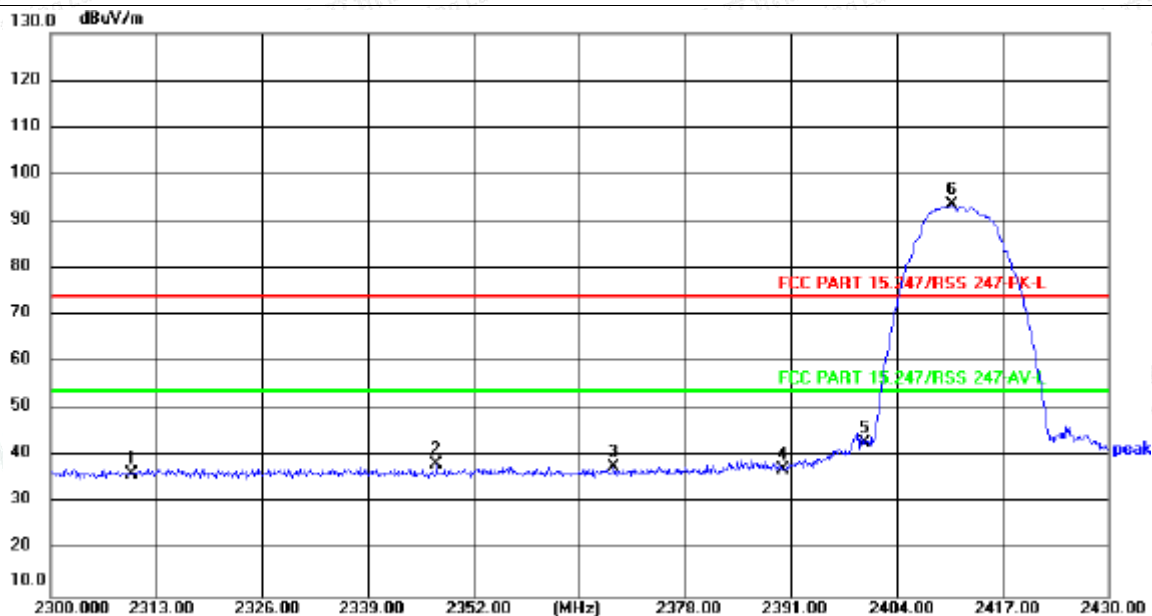
B.7 Restrict Band





Test Graphs

Restrict Band NVNT b 2412MHz Ant Peak- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2310.000	46.52	-10.42	36.10	74.00	-37.90	peak
2	2347.450	48.83	-10.60	38.23	74.00	-35.77	peak
3	2369.290	48.47	-10.74	37.73	74.00	-36.27	peak
4	2390.000	48.08	-10.89	37.19	74.00	-36.81	peak
5	2400.000	53.75	-10.96	42.79	74.00	-31.21	peak



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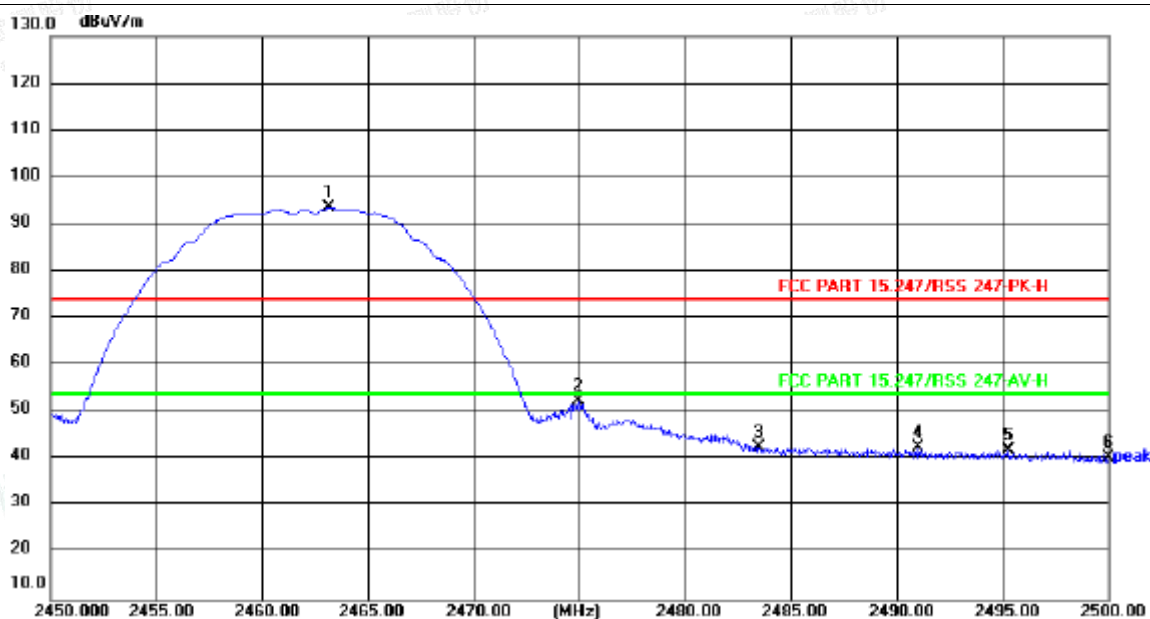
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

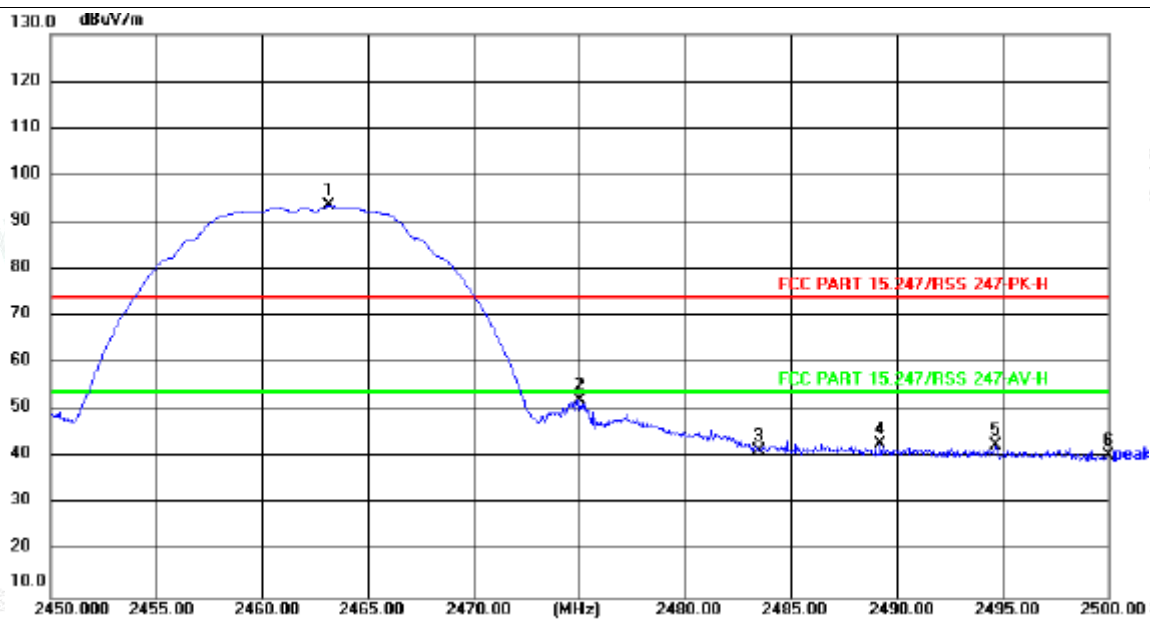


Restrict Band NVNT b 2462MHz Ant Peak- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.150	105.09	-11.48	93.61	74.00	19.61	peak
2	2474.950	63.94	-11.44	52.50	74.00	-21.50	peak
3	2483.500	53.84	-11.40	42.44	74.00	-31.56	peak
4	2491.050	53.93	-11.37	42.56	74.00	-31.44	peak
5	2495.300	53.24	-11.36	41.88	74.00	-32.12	peak
6	2500.000	51.83	-11.34	40.49	74.00	-33.51	peak

Restrict Band NVNT b 2462MHz Ant Peak- Horizontal



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2463.150	104.24	-10.75	93.49	74.00	19.49	peak
2	2475.050	63.17	-10.88	52.29	74.00	-21.71	peak
3	2483.500	52.35	-10.96	41.39	74.00	-32.61	peak
4	2489.250	53.97	-11.03	42.94	74.00	-31.06	peak
5	2494.700	53.57	-11.09	42.48	74.00	-31.52	peak
6	2500.000	51.67	-11.14	40.53	74.00	-33.47	peak

Note: B/G/N were tested, the report only recorded the worst result of B mode.



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