



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Kids Smartwatch

Test Model: X6

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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C.1-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant	7.575	≥ 0.5	Pass
NVNT	b	2437	Ant	8.011	≥ 0.5	Pass
NVNT	b	2462	Ant	7.38	≥ 0.5	Pass
NVNT	g	2412	Ant	16.431	≥ 0.5	Pass
NVNT	g	2437	Ant	16.344	≥ 0.5	Pass
NVNT	g	2462	Ant	16.562	≥ 0.5	Pass
NVNT	n20	2412	Ant	17.683	≥ 0.5	Pass
NVNT	n20	2437	Ant	17.601	≥ 0.5	Pass
NVNT	n20	2462	Ant	17.643	≥ 0.5	Pass

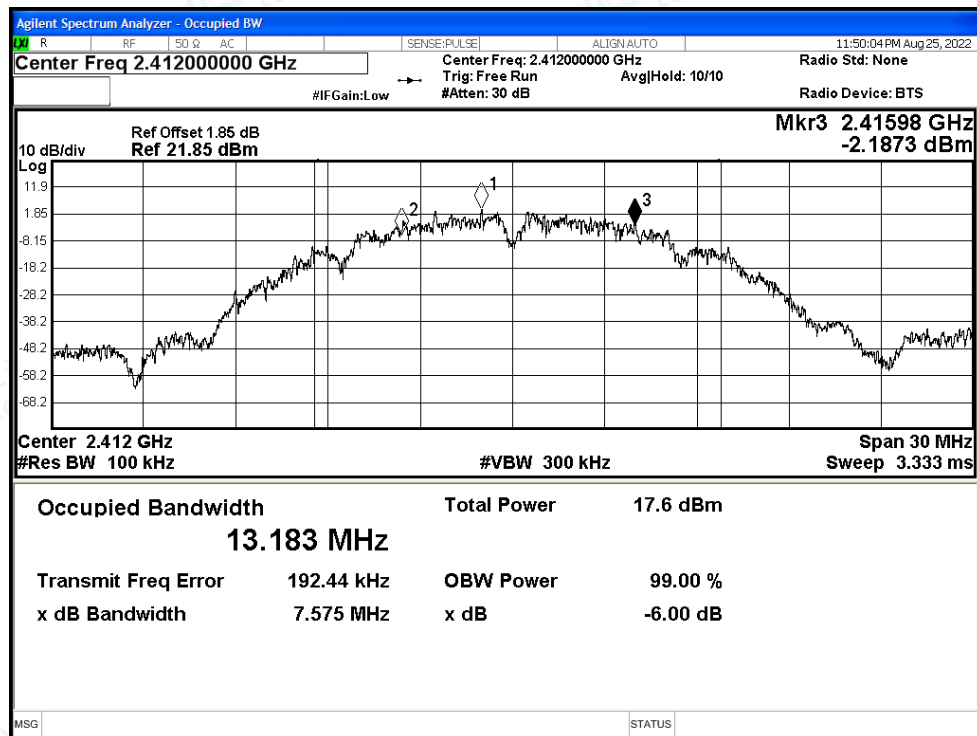


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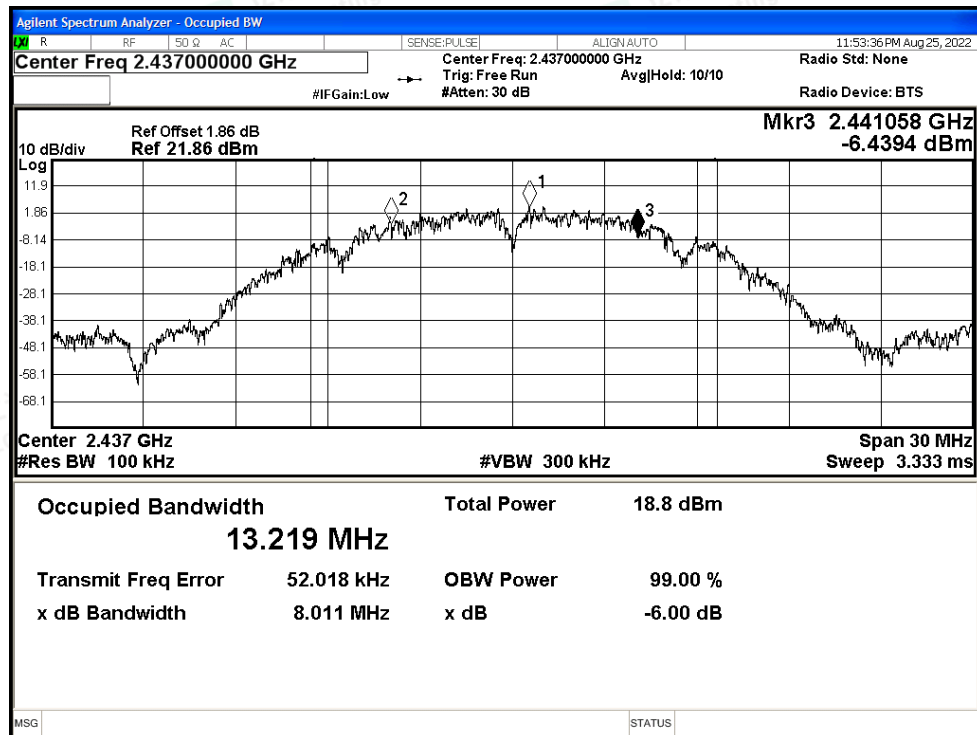


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant



-6dB Bandwidth NVNT b 2437MHz Ant



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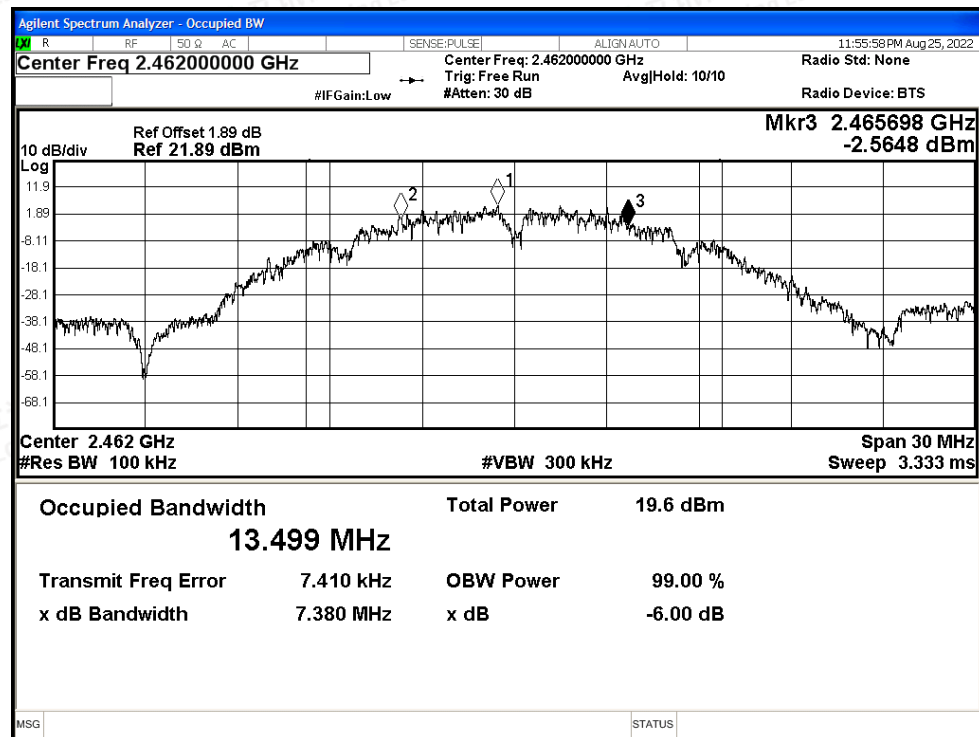
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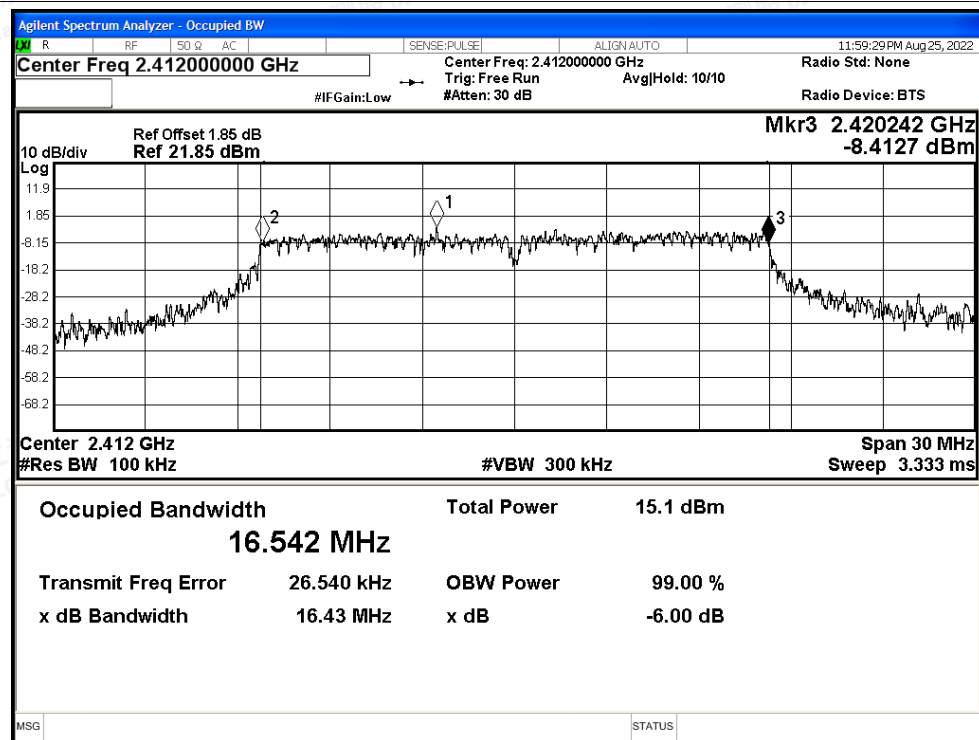
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-6dB Bandwidth NVNT b 2462MHz Ant



-6dB Bandwidth NVNT g 2412MHz Ant



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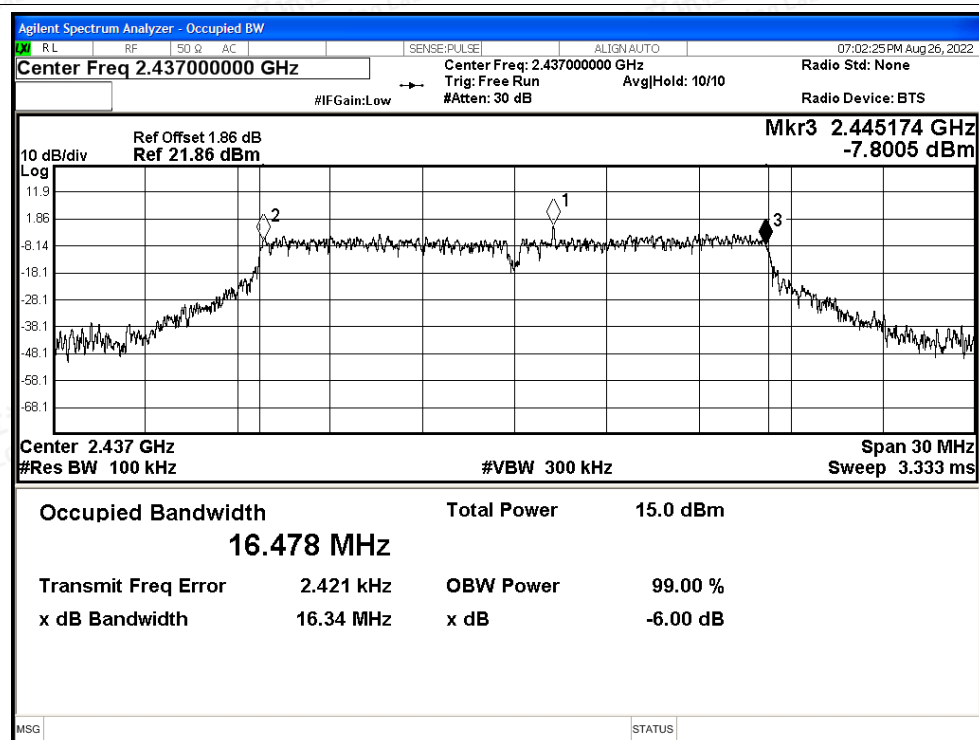
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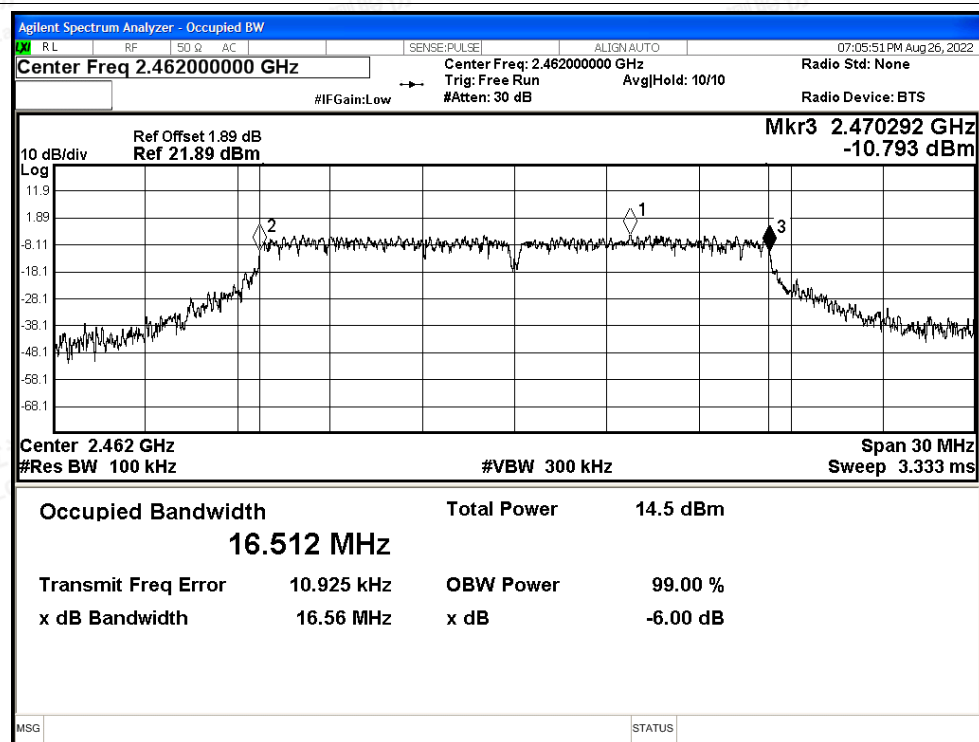
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant



-6dB Bandwidth NVNT g 2462MHz Ant



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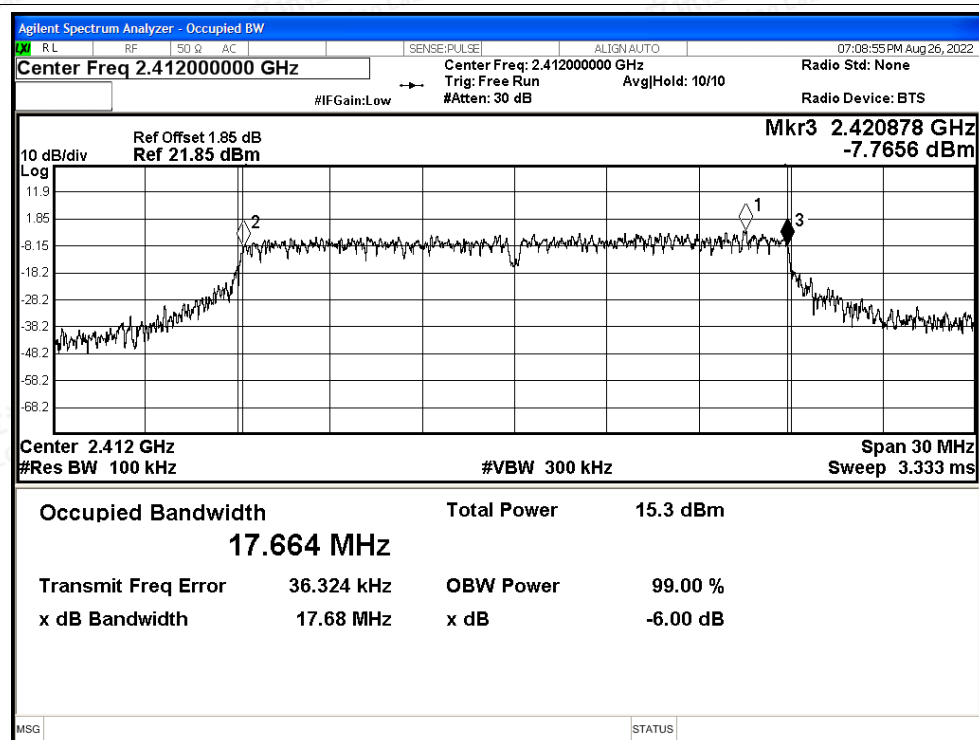
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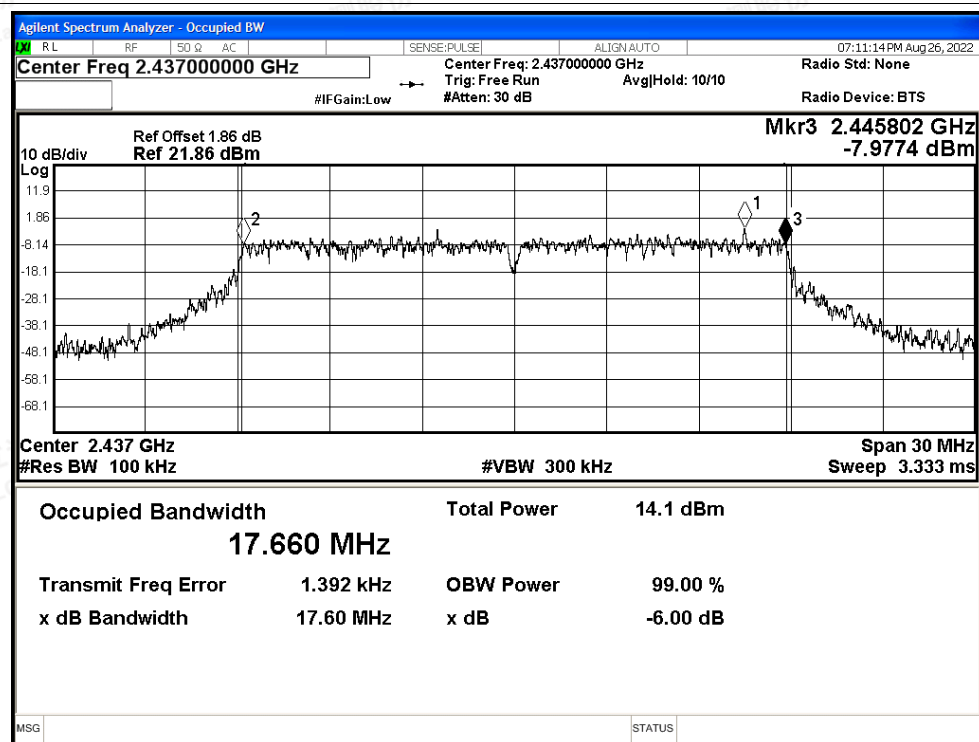
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-6dB Bandwidth NVNT n20 2412MHz Ant



-6dB Bandwidth NVNT n20 2437MHz Ant

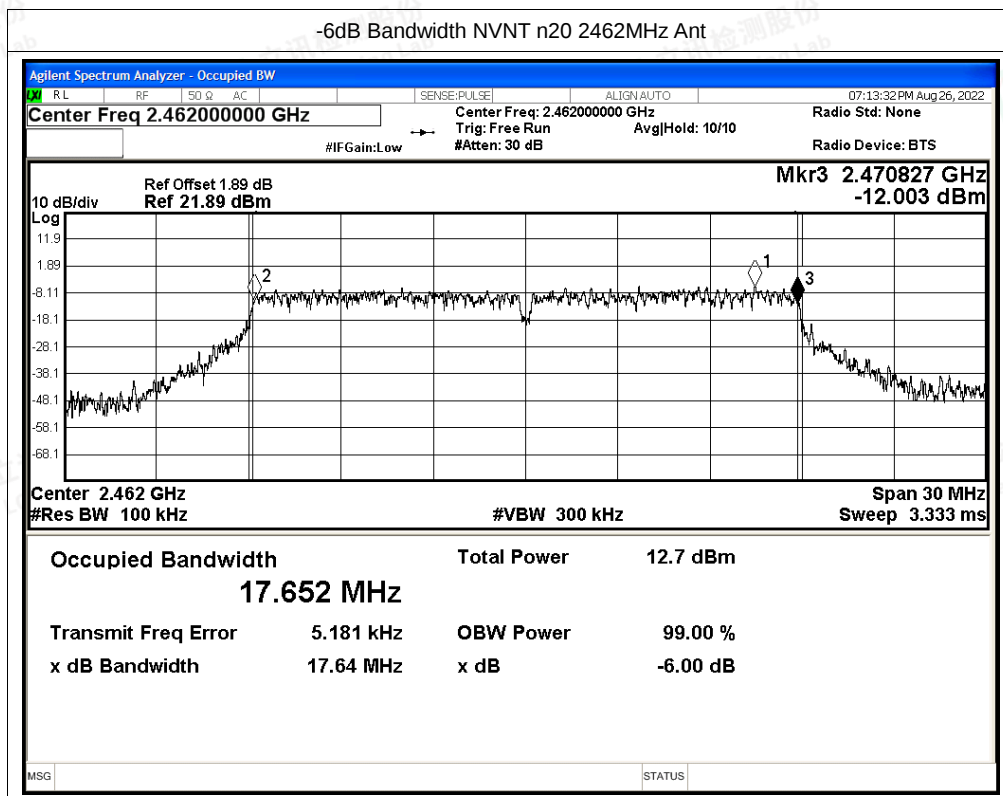


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C.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant	13.165
NVNT	b	2437	Ant	13.25
NVNT	b	2462	Ant	13.59
NVNT	g	2412	Ant	16.599
NVNT	g	2437	Ant	16.735
NVNT	g	2462	Ant	16.561
NVNT	n20	2412	Ant	17.652
NVNT	n20	2437	Ant	17.749
NVNT	n20	2462	Ant	17.716

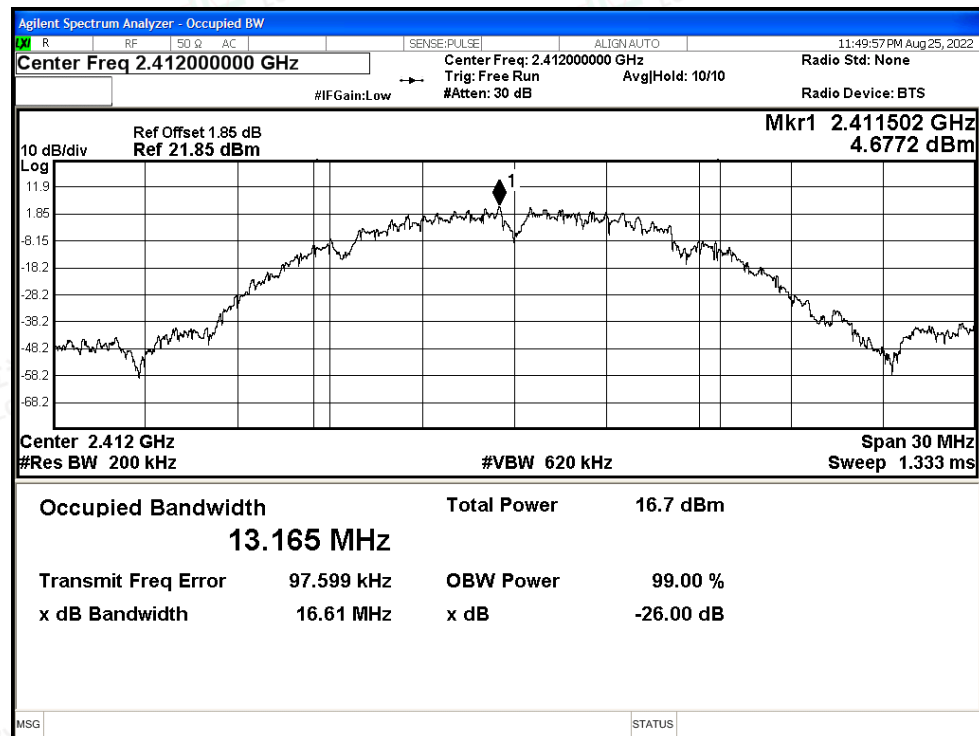


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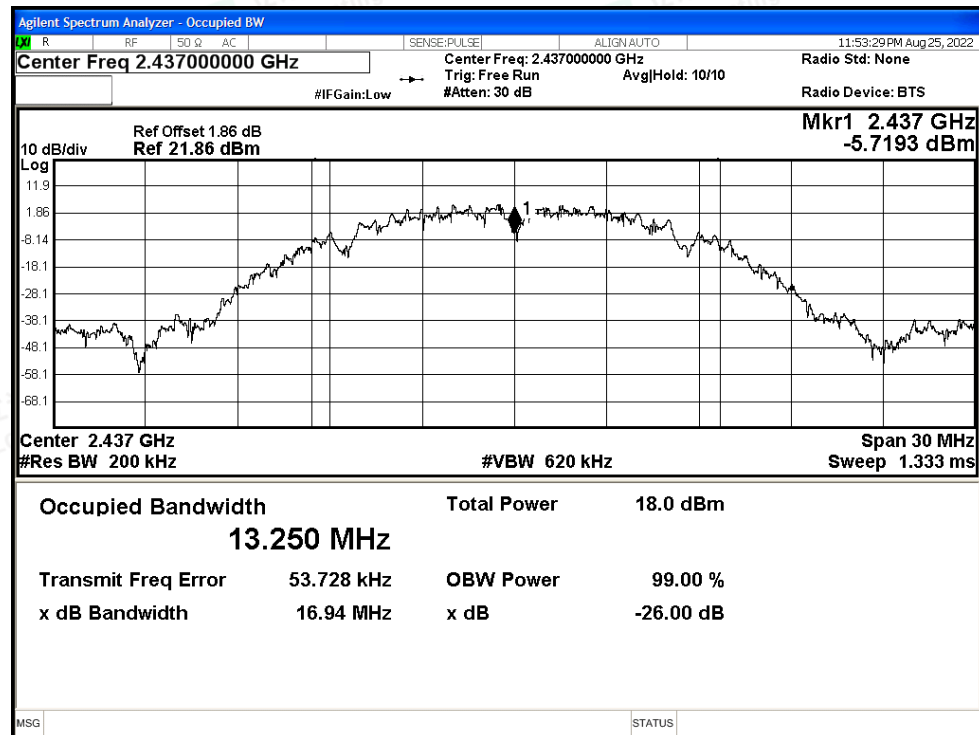


Test Graphs

OBW NVNT b 2412MHz Ant



OBW NVNT b 2437MHz Ant



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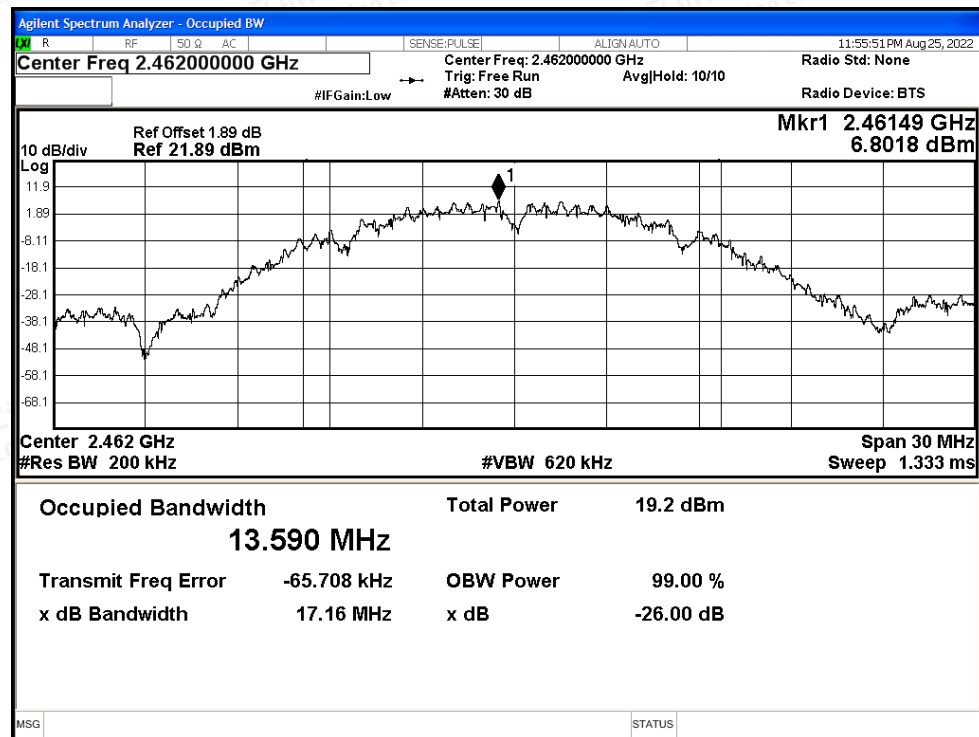
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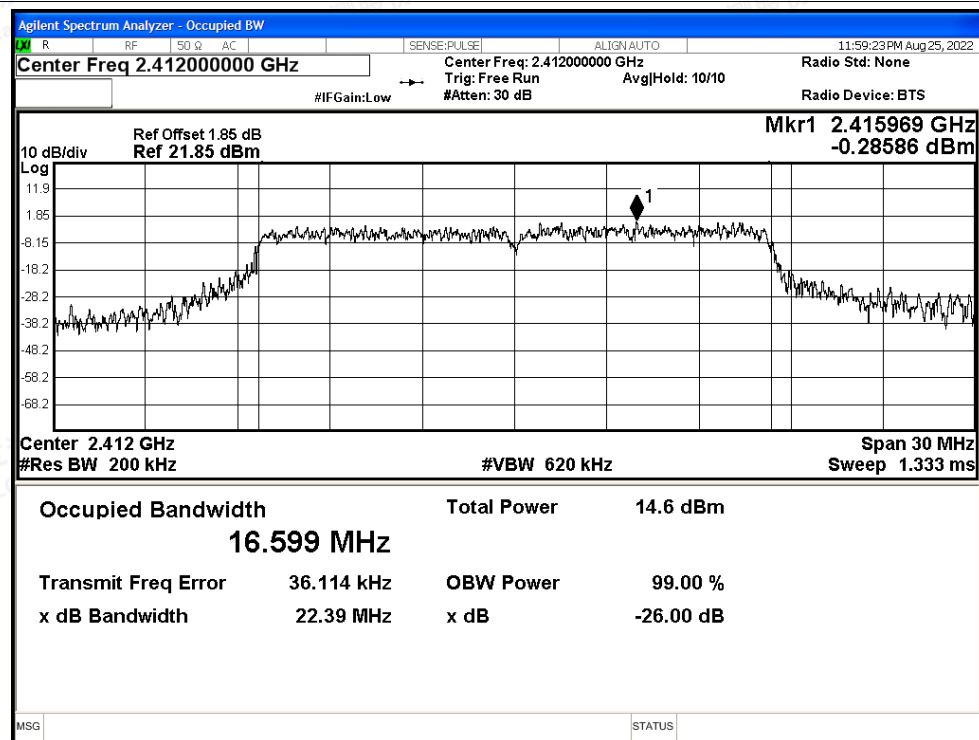
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OBW NVNT b 2462MHz Ant



OBW NVNT g 2412MHz Ant



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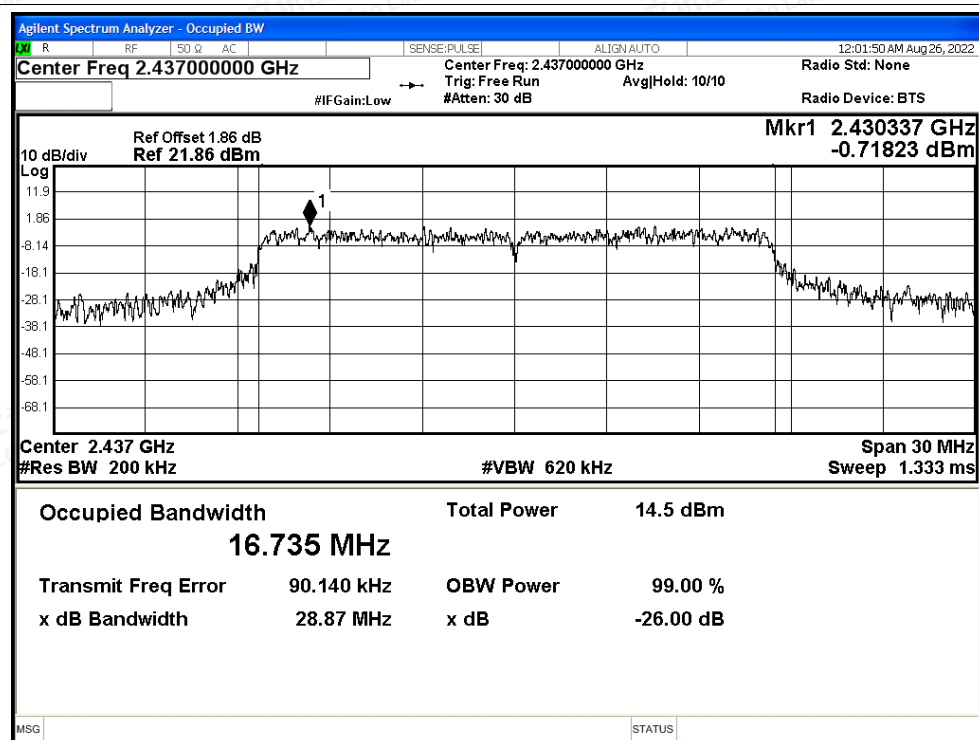
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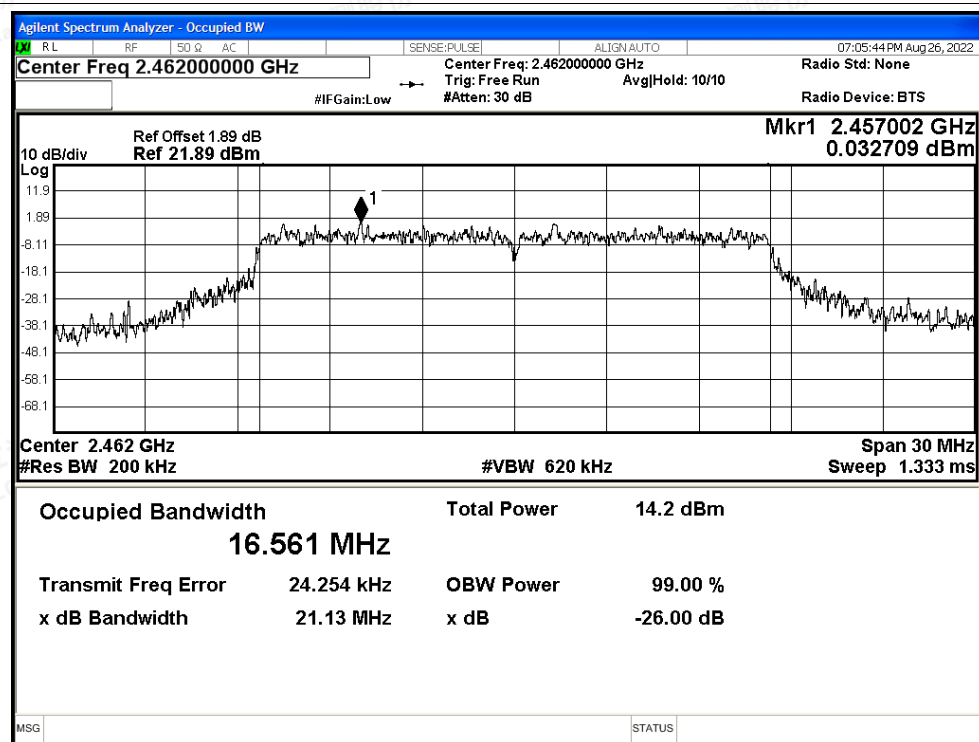
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OBW NVNT g 2437MHz Ant



OBW NVNT g 2462MHz Ant



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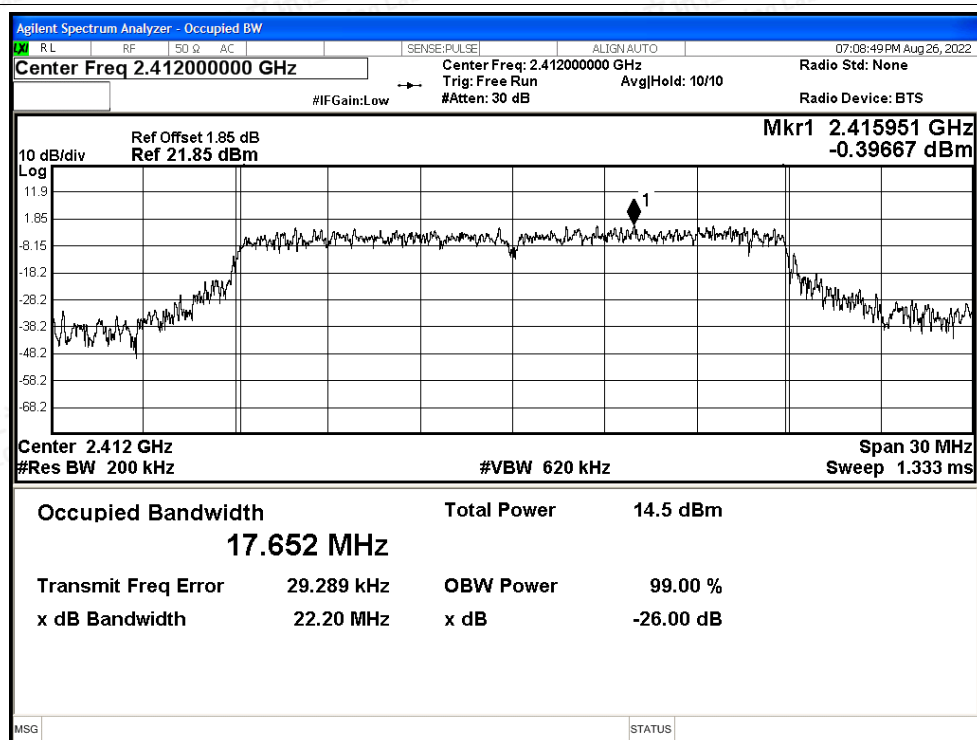
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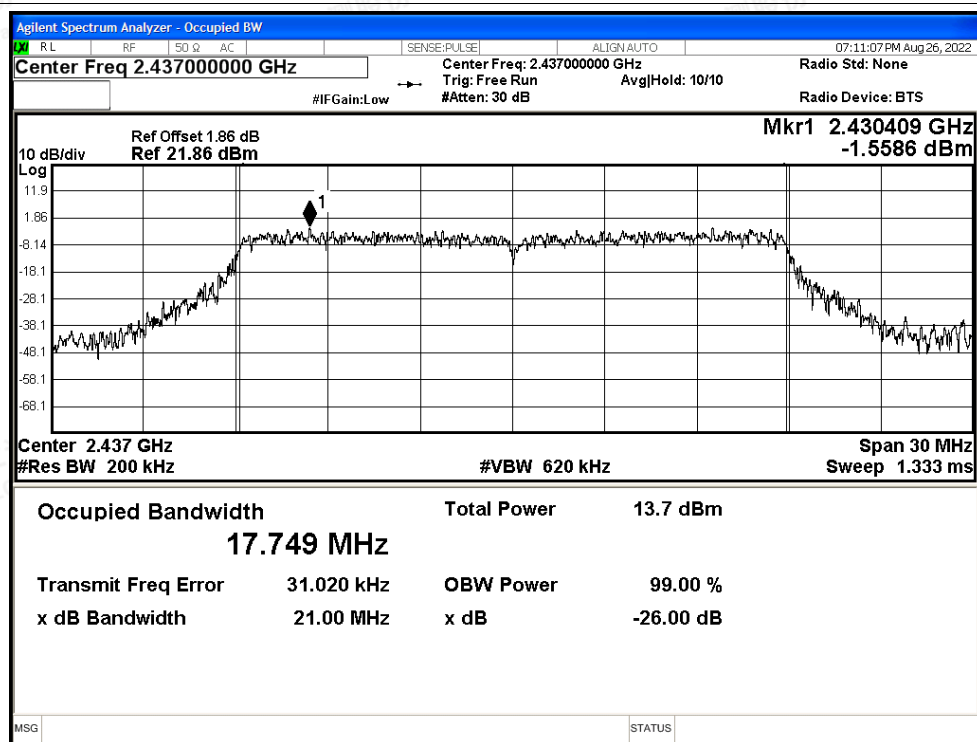
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OBW NVNT n20 2412MHz Ant



OBW NVNT n20 2437MHz Ant

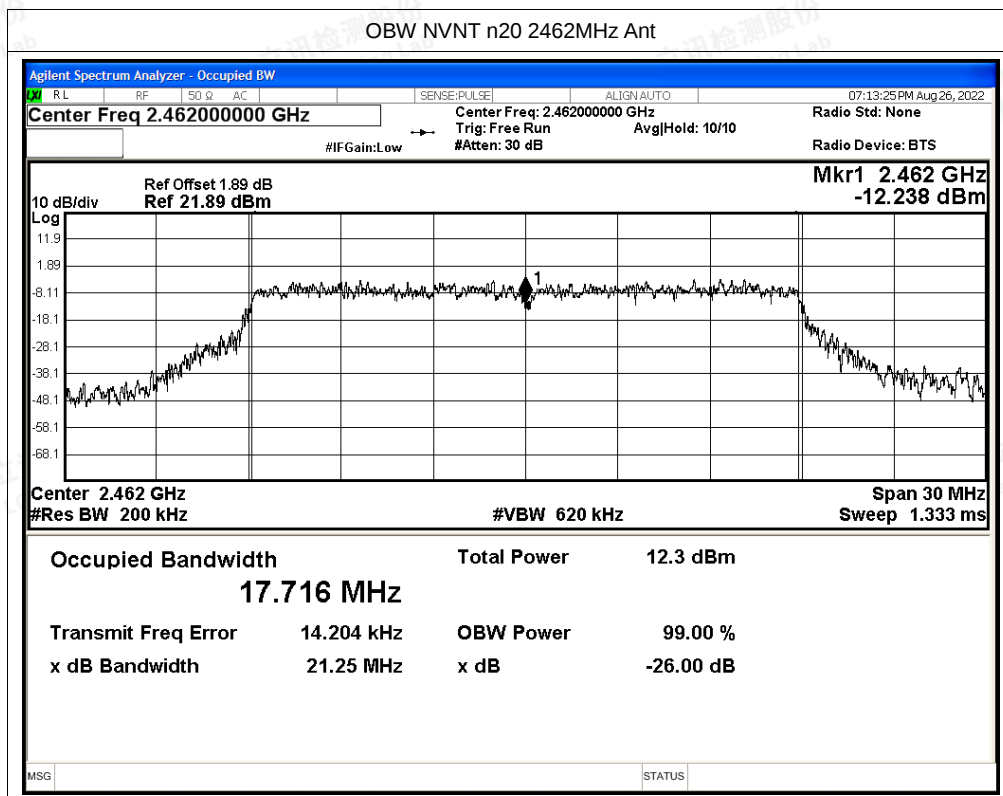


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C.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant	14.14	30	Pass
NVNT	b	2437	Ant	15.39	30	Pass
NVNT	b	2462	Ant	16.43	30	Pass
NVNT	g	2412	Ant	13.89	30	Pass
NVNT	g	2437	Ant	13.74	30	Pass
NVNT	g	2462	Ant	13.38	30	Pass
NVNT	n20	2412	Ant	14.03	30	Pass
NVNT	n20	2437	Ant	12.83	30	Pass
NVNT	n20	2462	Ant	13.1	30	Pass





C.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant	-9.81	8	Pass
NVNT	b	2437	Ant	-9.16	8	Pass
NVNT	b	2462	Ant	-8.09	8	Pass
NVNT	g	2412	Ant	-14.49	8	Pass
NVNT	g	2437	Ant	-15.32	8	Pass
NVNT	g	2462	Ant	-14.73	8	Pass
NVNT	n20	2412	Ant	-12.49	8	Pass
NVNT	n20	2437	Ant	-15.14	8	Pass
NVNT	n20	2462	Ant	-18.11	8	Pass

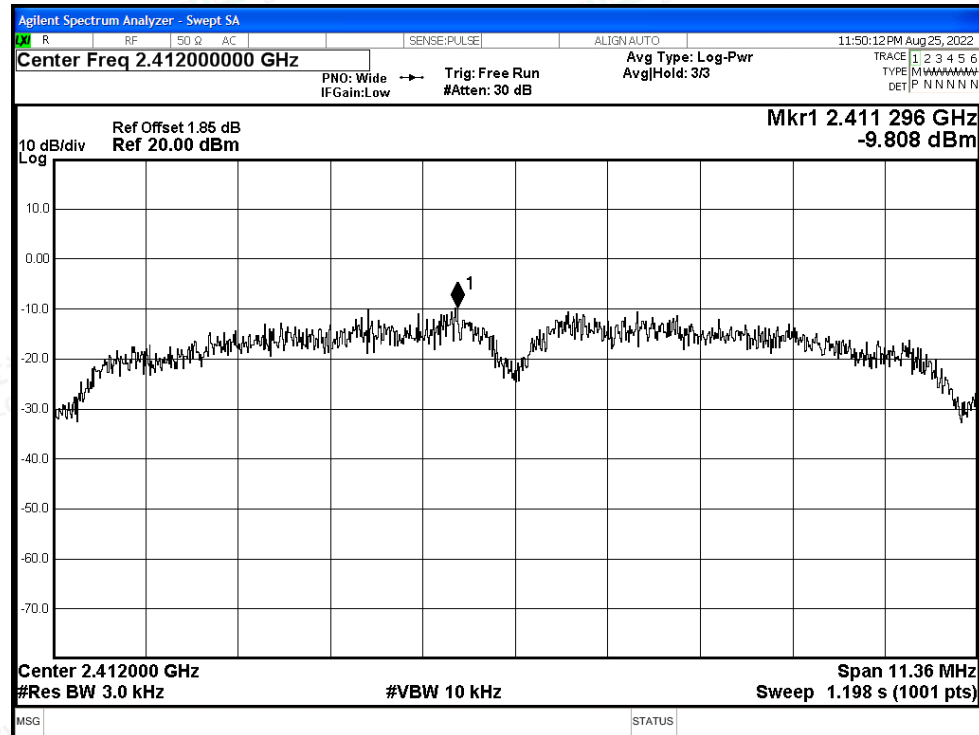


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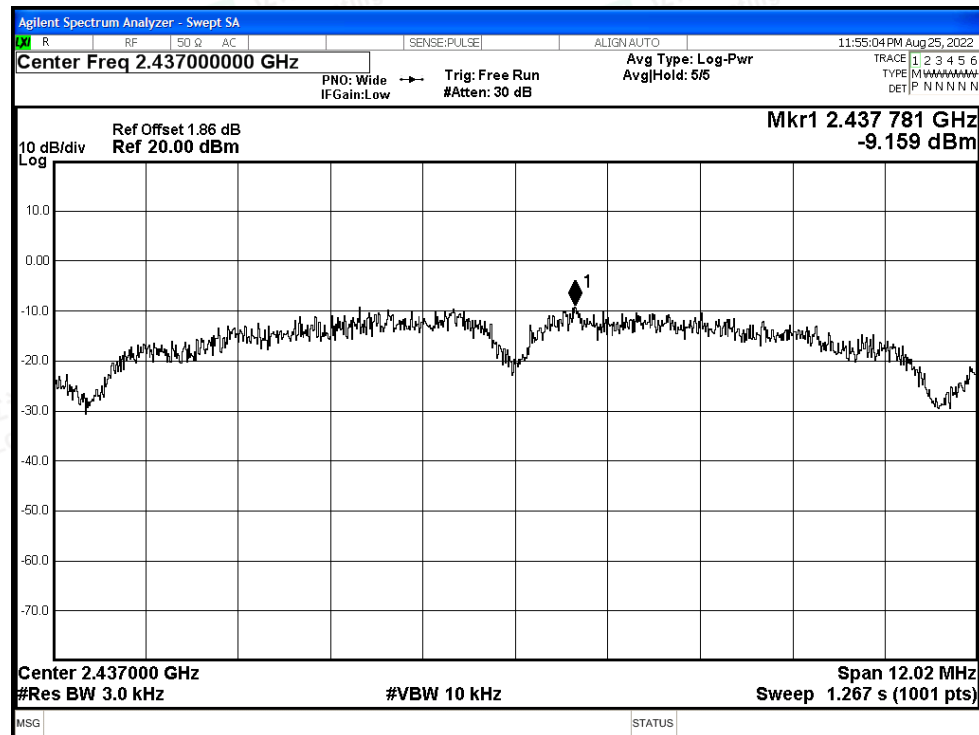


Test Graphs

PSD NVNT b 2412MHz Ant



PSD NVNT b 2437MHz Ant



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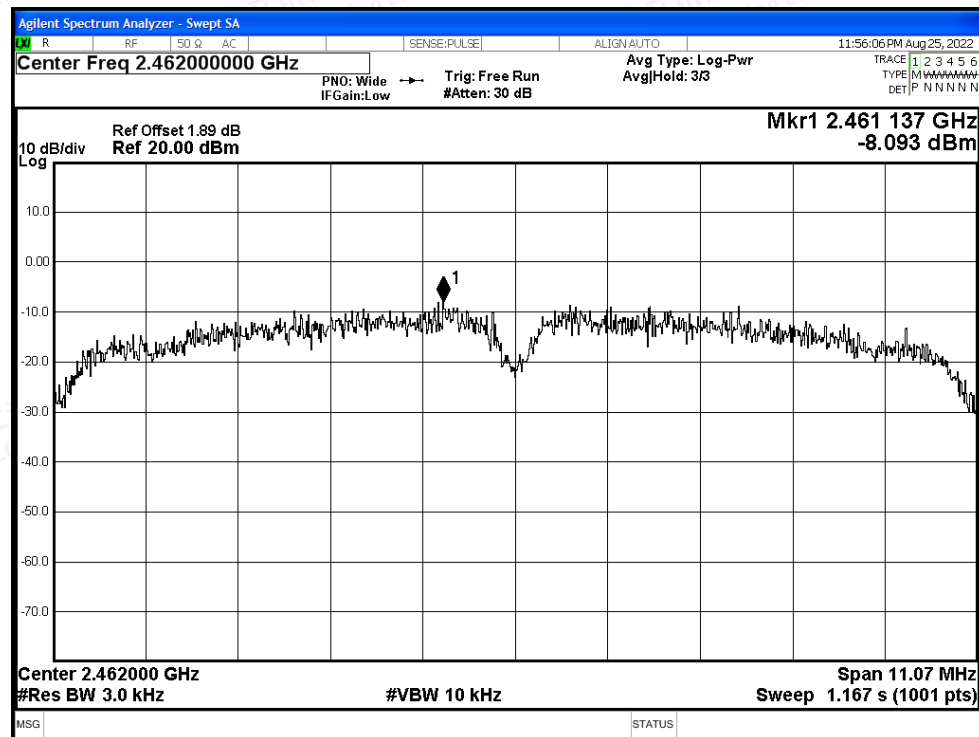
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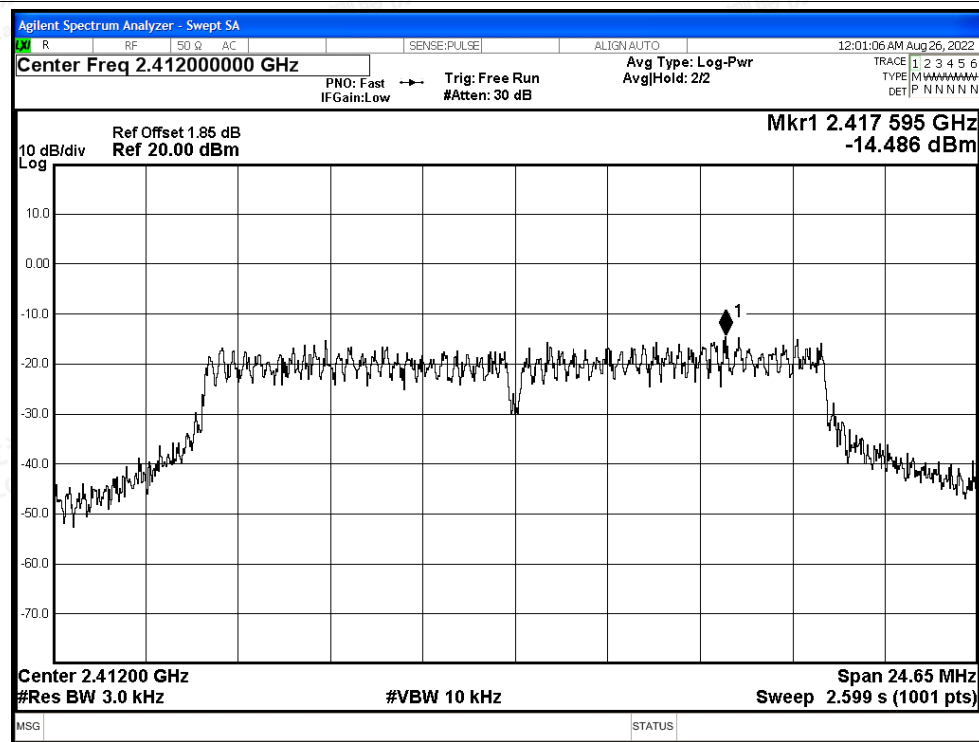
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PSD NVNT b 2462MHz Ant



PSD NVNT g 2412MHz Ant



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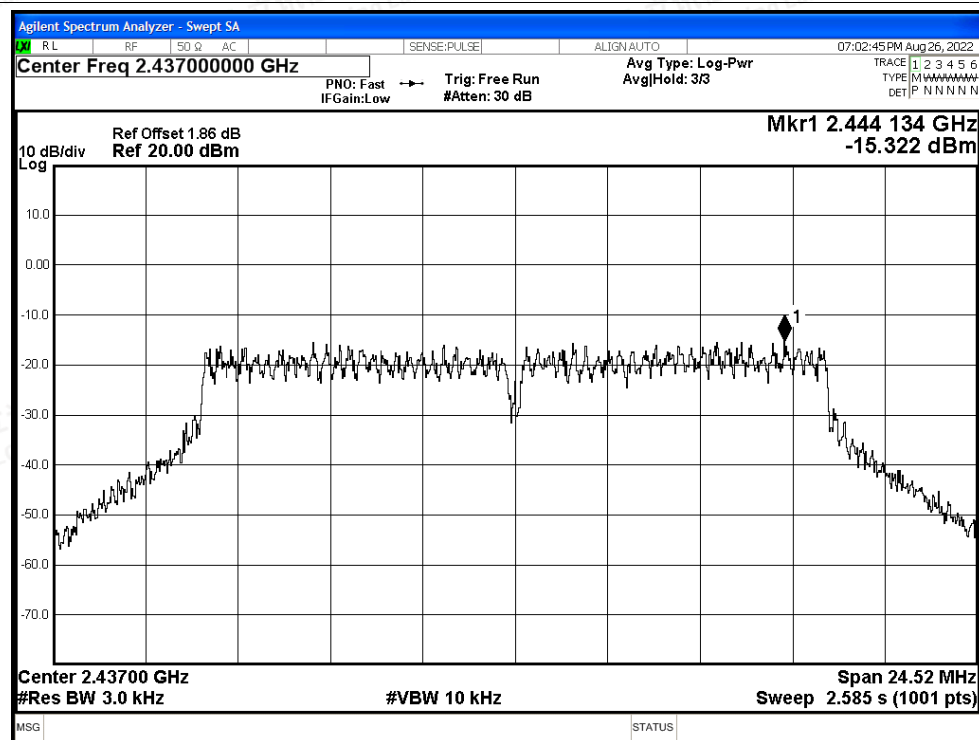
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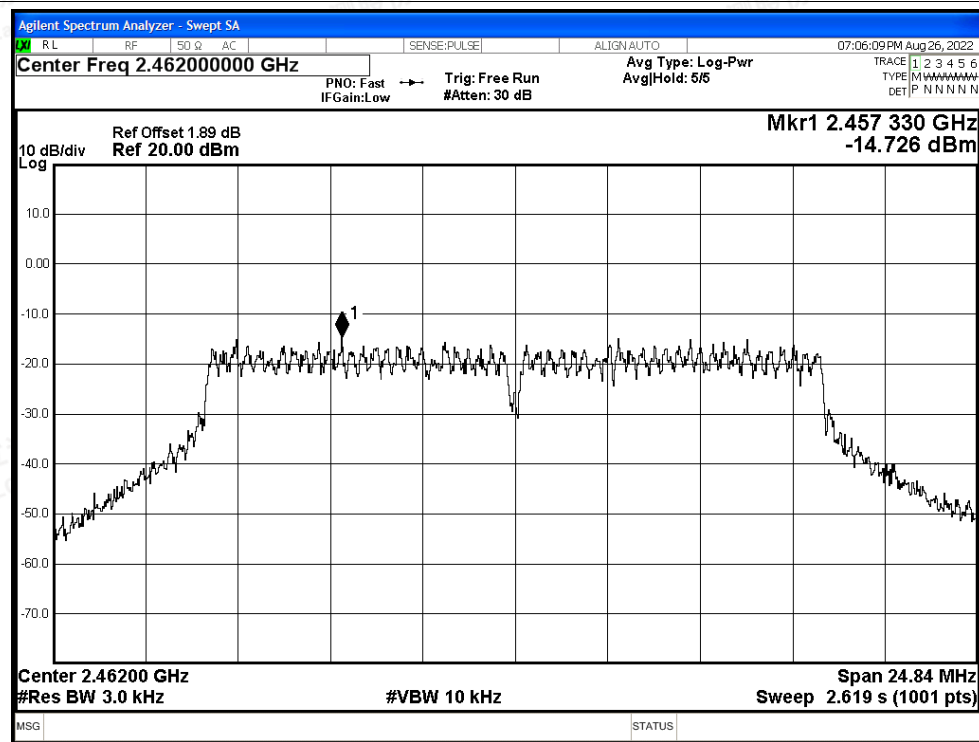
Scan code to check authenticity



PSD NVNT g 2437MHz Ant



PSD NVNT g 2462MHz Ant



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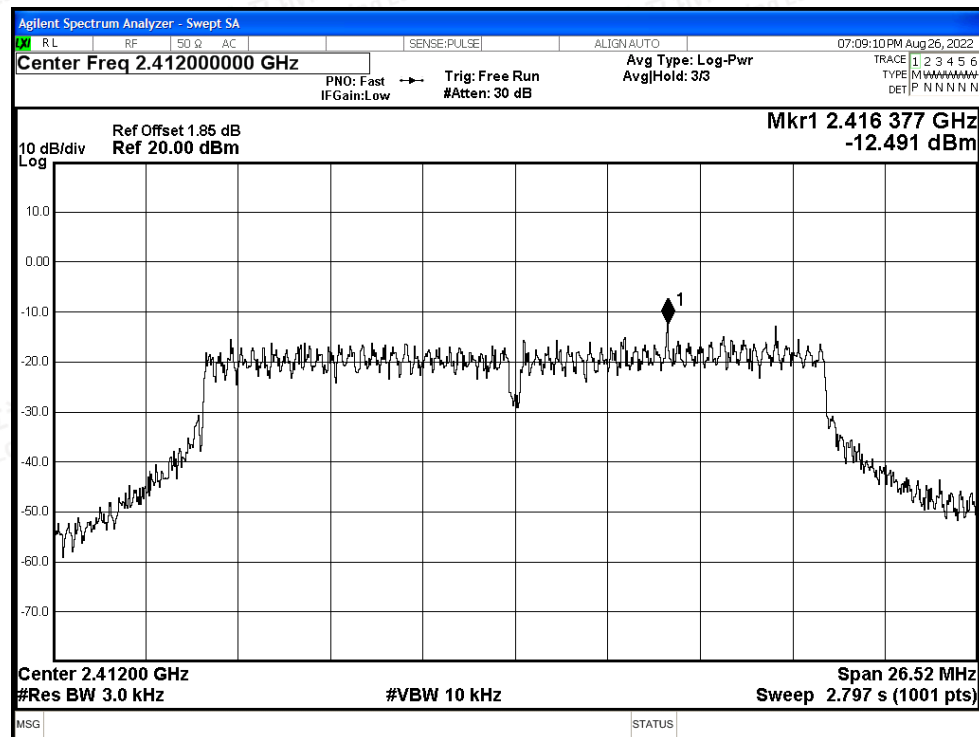
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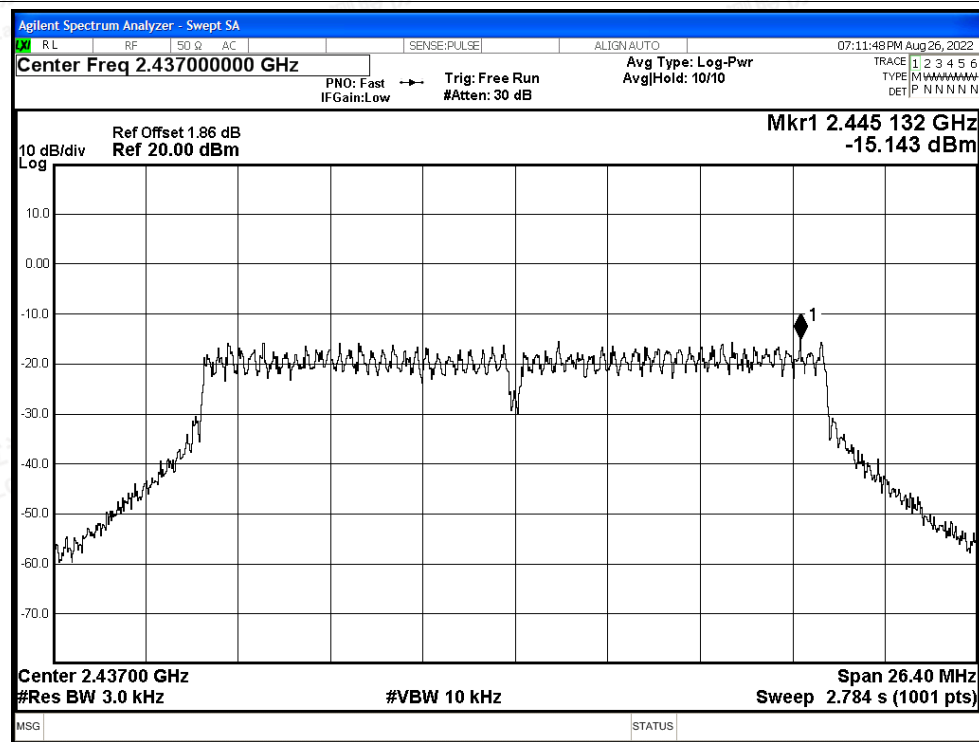
Scan code to check authenticity



PSD NVNT n20 2412MHz Ant



PSD NVNT n20 2437MHz Ant

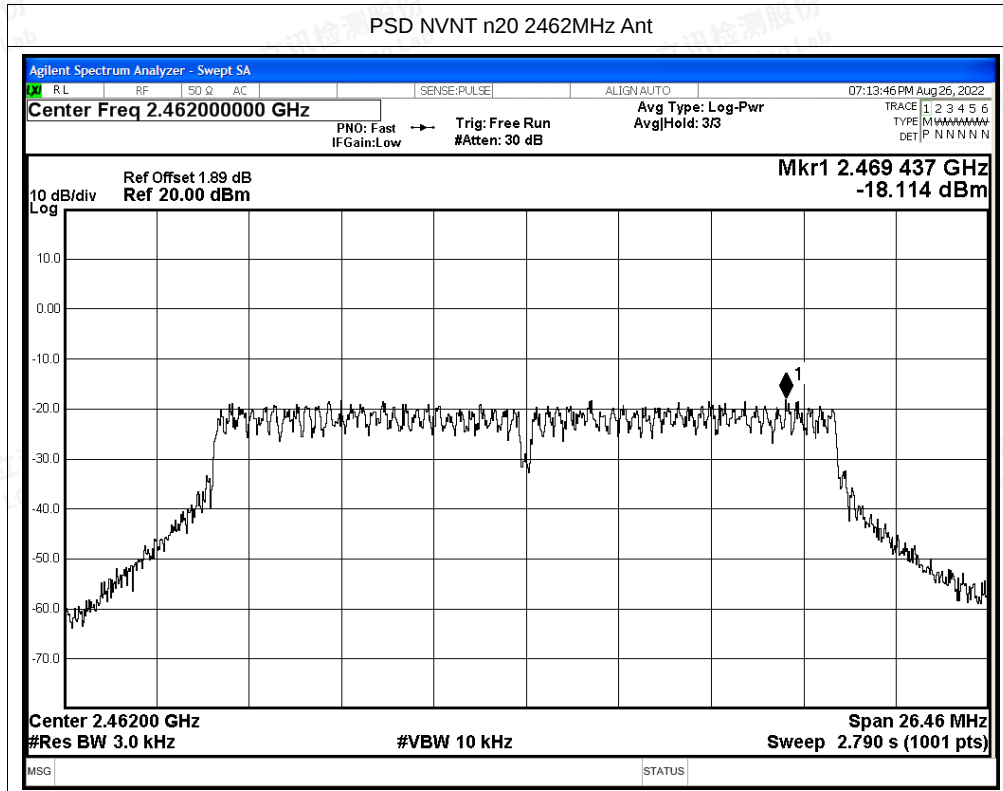


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C.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-51.18	-20	Pass
NVNT	b	2462	Ant	-57.88	-20	Pass
NVNT	g	2412	Ant	-32.23	-20	Pass
NVNT	g	2462	Ant	-43.92	-20	Pass
NVNT	n20	2412	Ant	-34.09	-20	Pass
NVNT	n20	2462	Ant	-46.26	-20	Pass

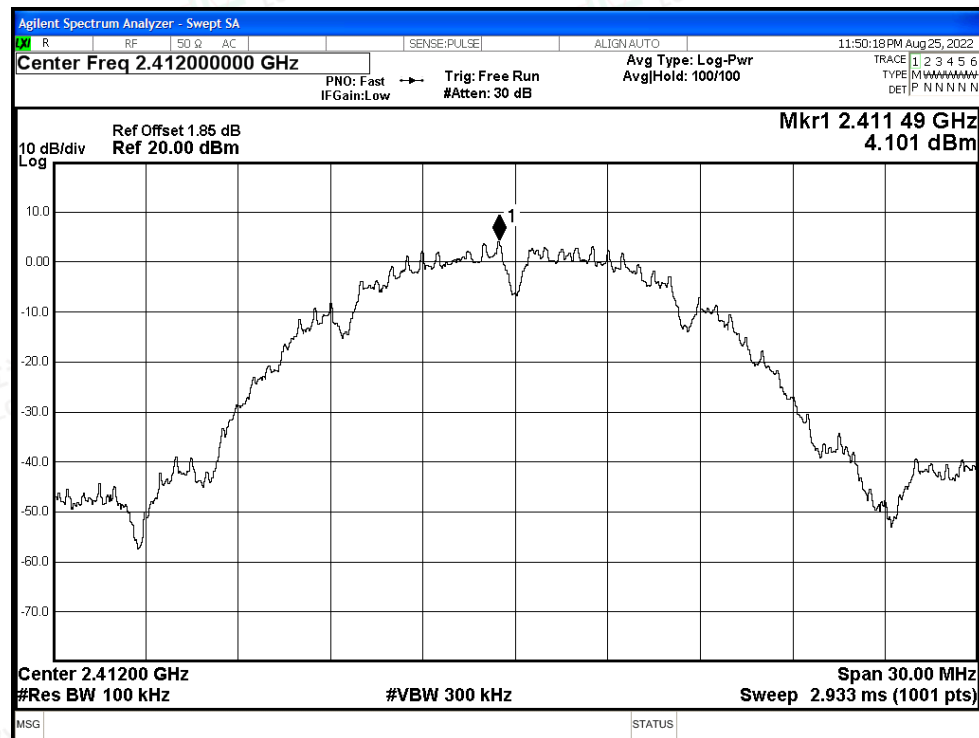


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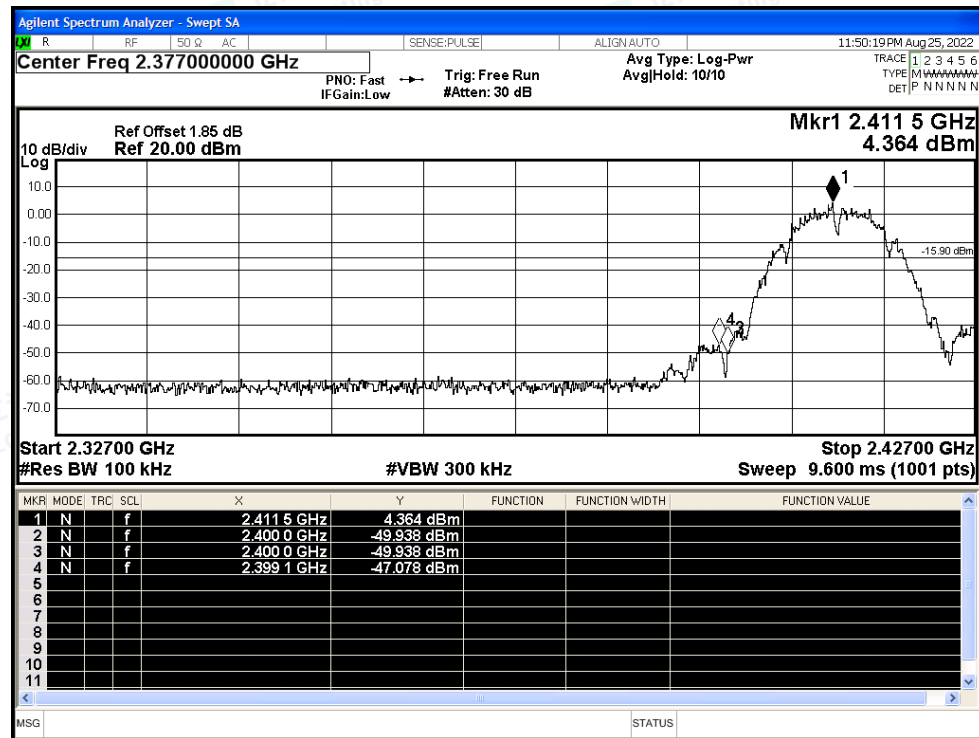


Test Graphs

Band Edge NVNT b 2412MHz Ant Ref



Band Edge NVNT b 2412MHz Ant Emission



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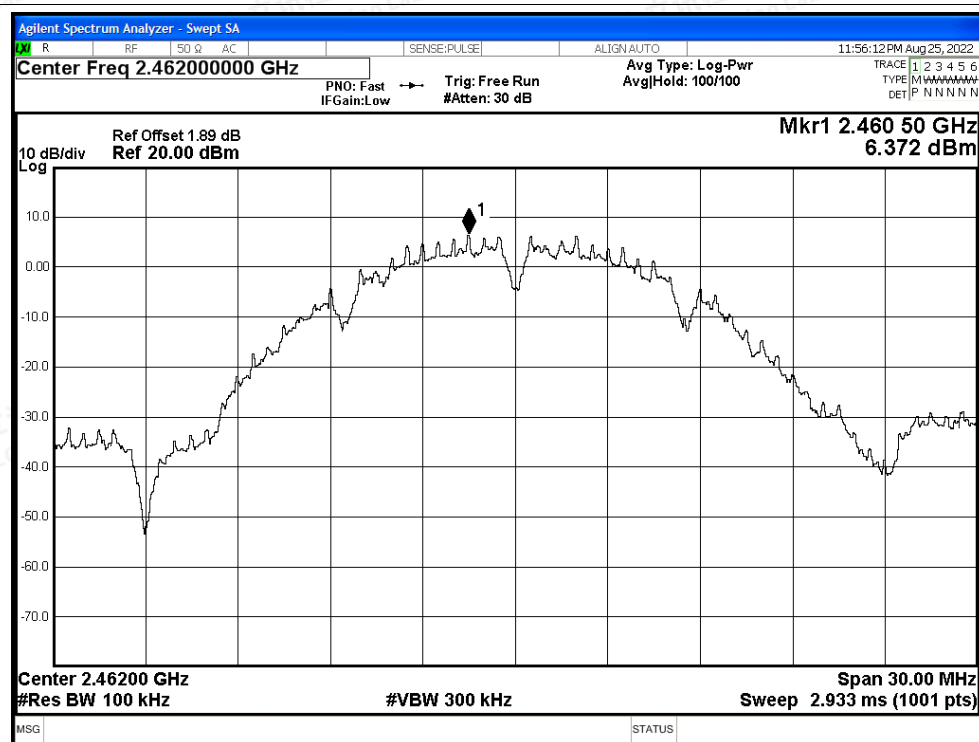
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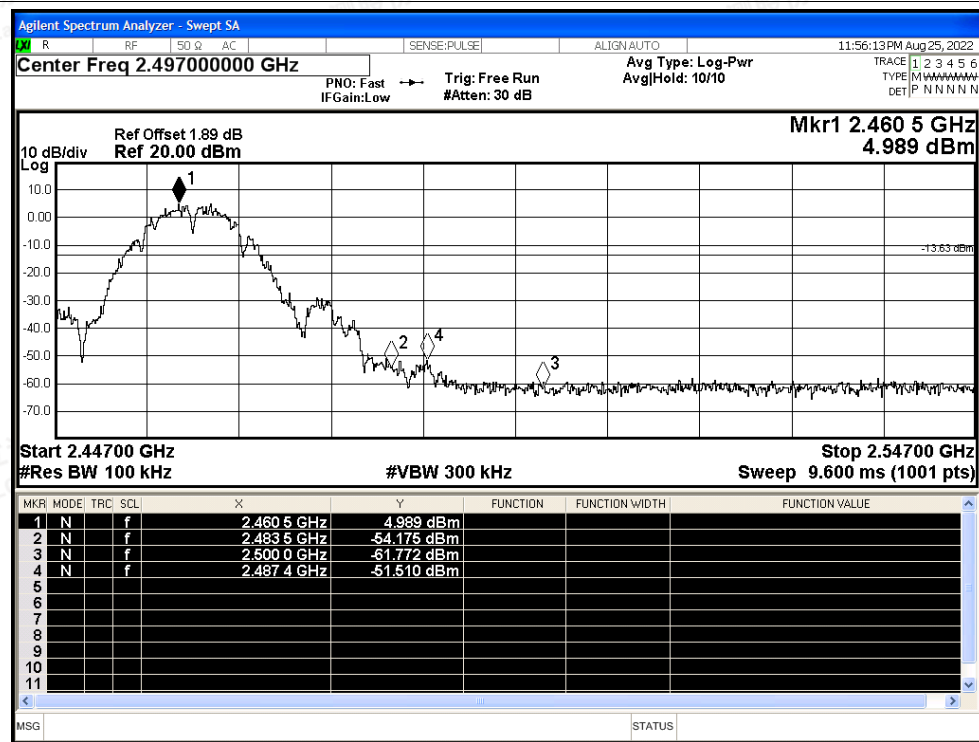
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Band Edge NVNT b 2462MHz Ant Ref



Band Edge NVNT b 2462MHz Ant Emission



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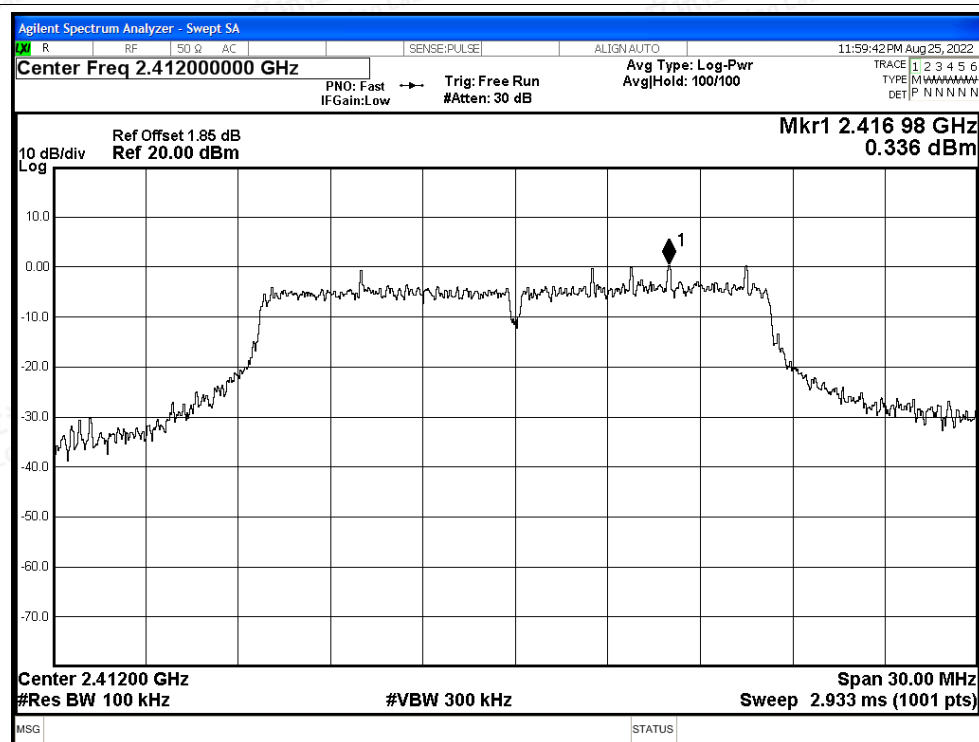
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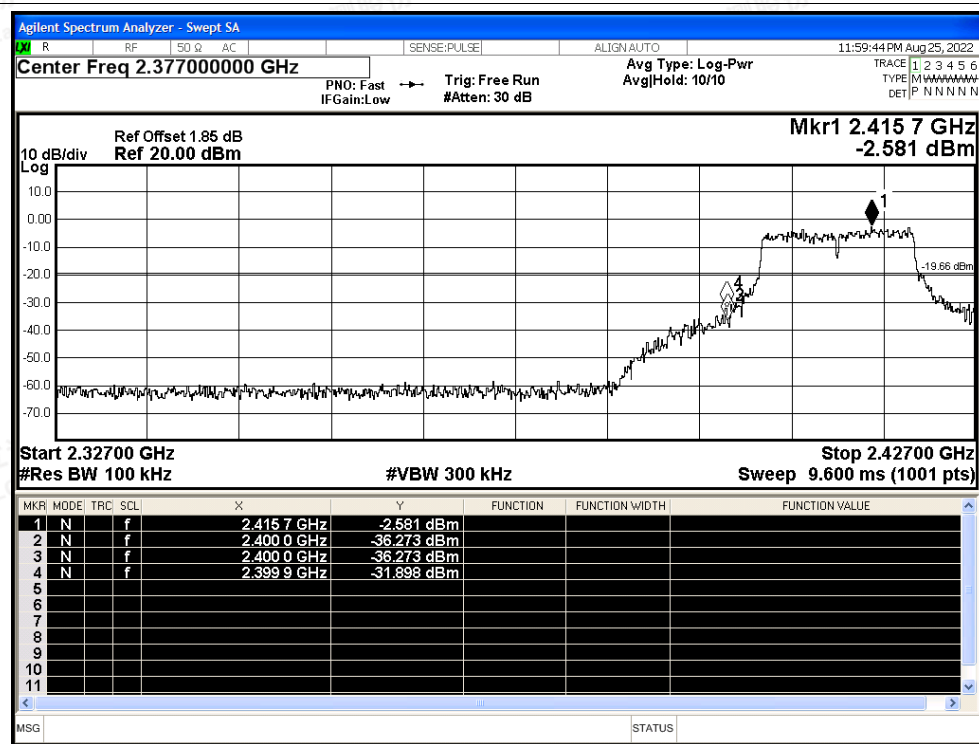
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Band Edge NVNT g 2412MHz Ant Ref



Band Edge NVNT g 2412MHz Ant Emission



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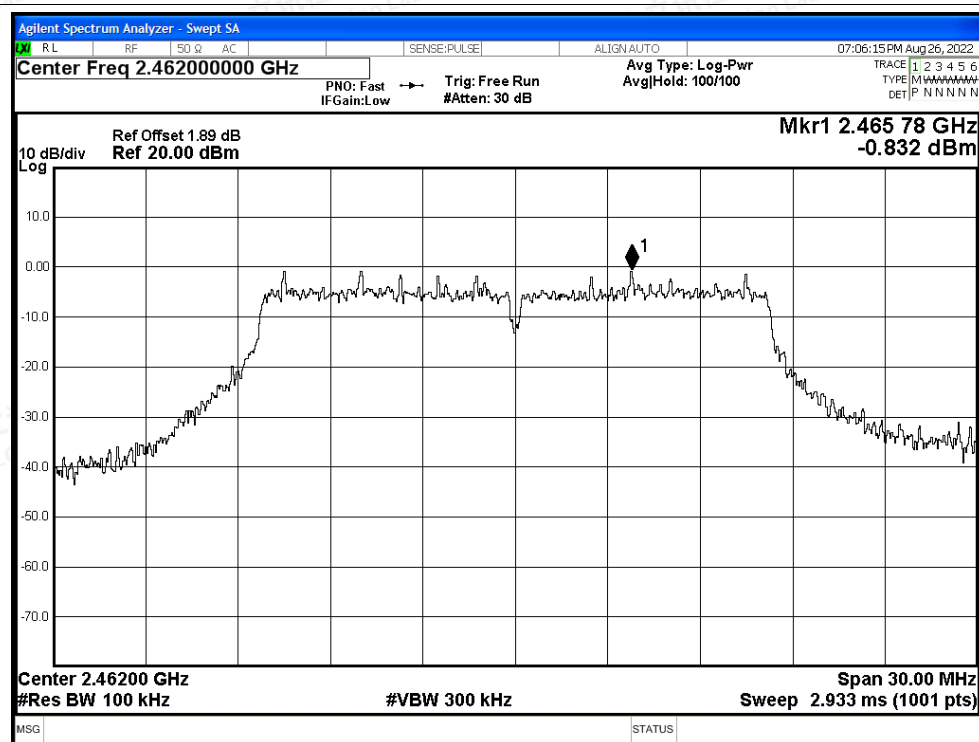
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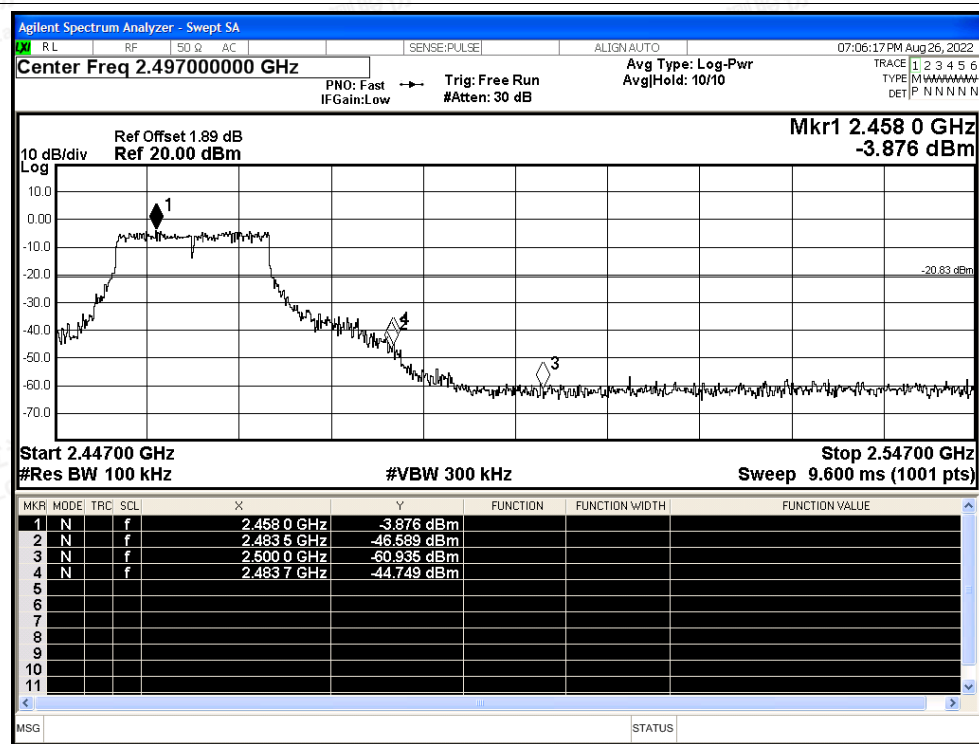
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Band Edge NVNT g 2462MHz Ant Ref



Band Edge NVNT g 2462MHz Ant Emission



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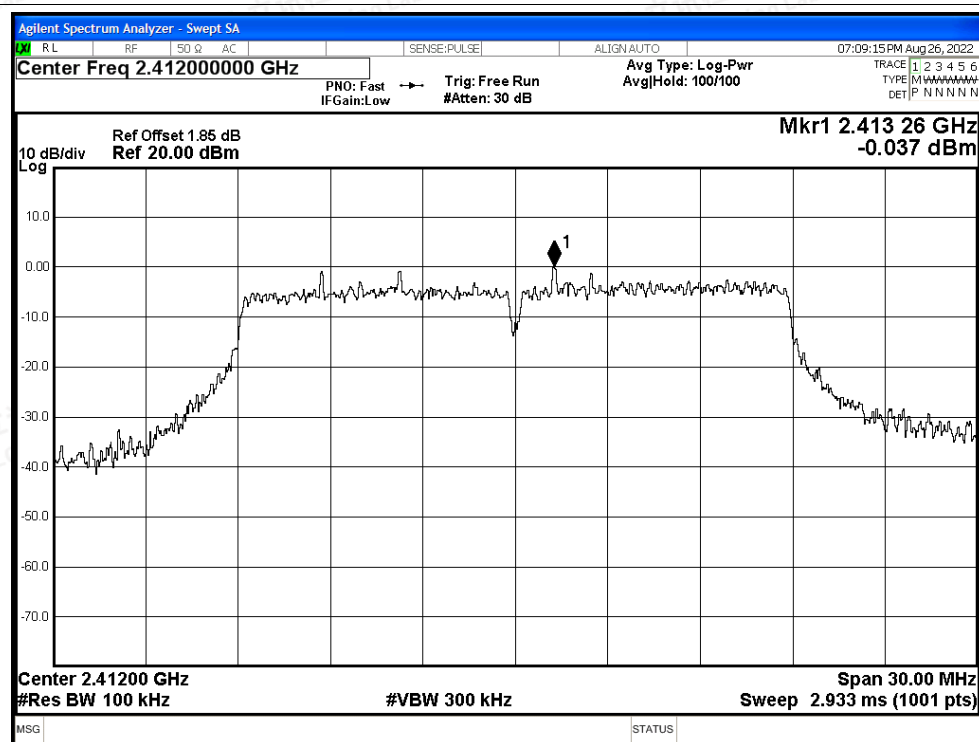
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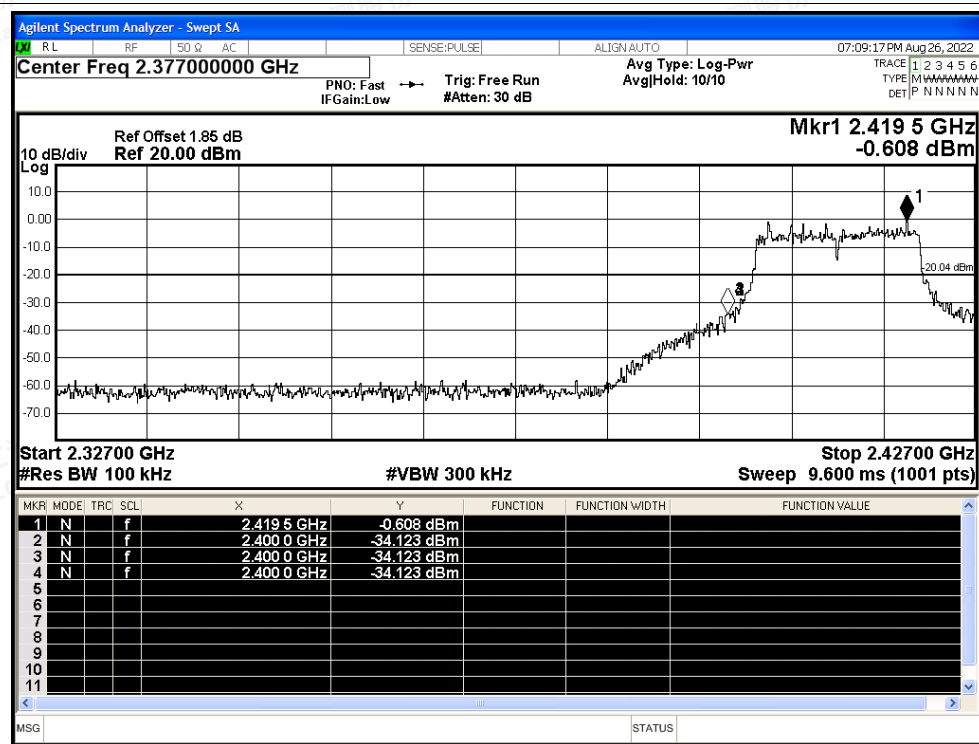
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Band Edge NVNT n20 2412MHz Ant Ref



Band Edge NVNT n20 2412MHz Ant Emission



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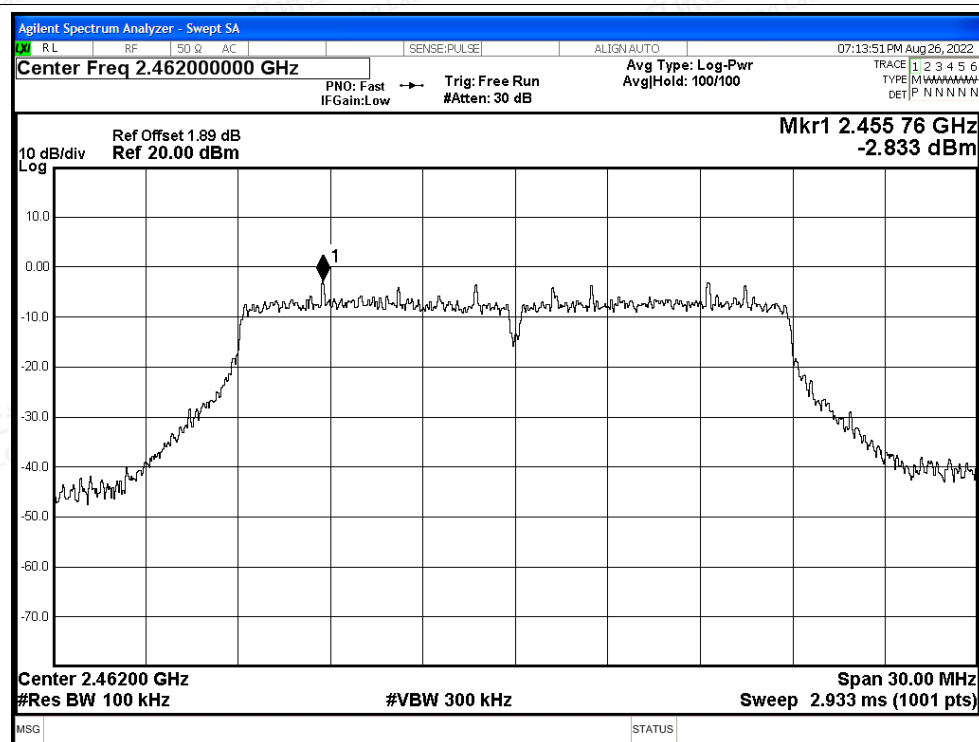
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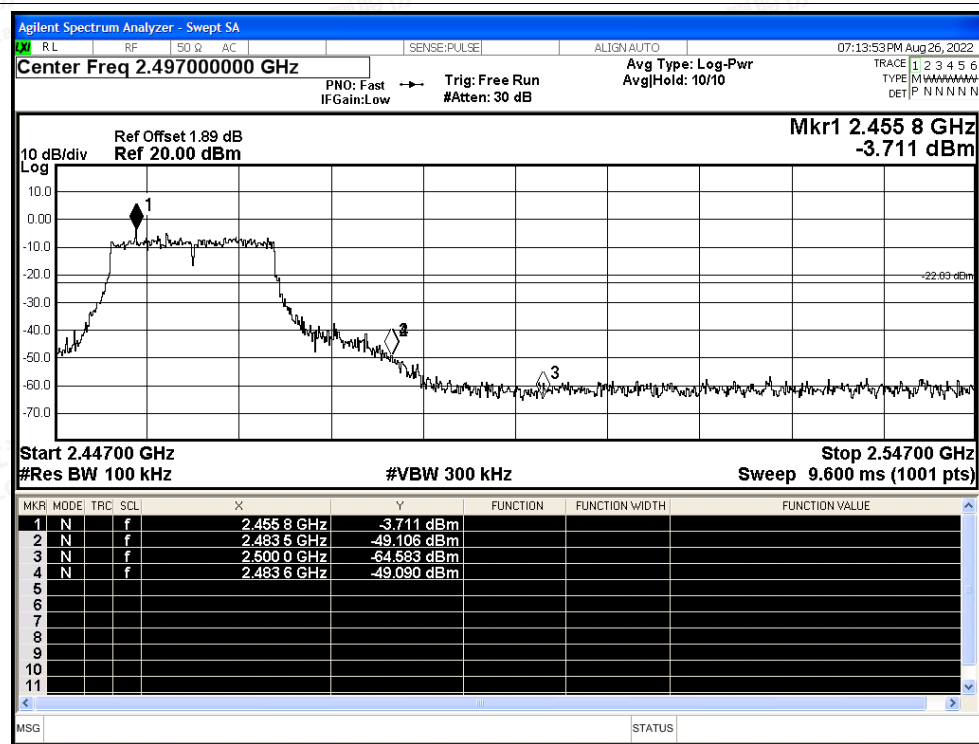
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Band Edge NVNT n20 2462MHz Ant Ref



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C.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-48.6	-20	Pass
NVNT	b	2437	Ant	-50.78	-20	Pass
NVNT	b	2462	Ant	-51.91	-20	Pass
NVNT	g	2412	Ant	-45.66	-20	Pass
NVNT	g	2437	Ant	-45.56	-20	Pass
NVNT	g	2462	Ant	-44.65	-20	Pass
NVNT	n20	2412	Ant	-46.88	-20	Pass
NVNT	n20	2437	Ant	-45.23	-20	Pass
NVNT	n20	2462	Ant	-43.59	-20	Pass

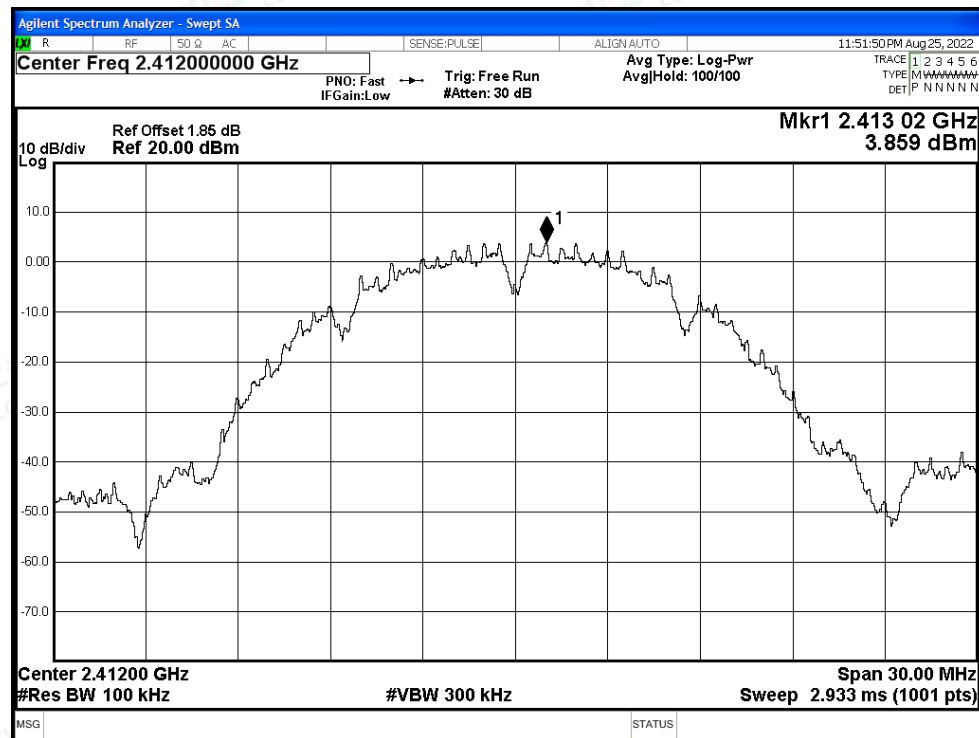


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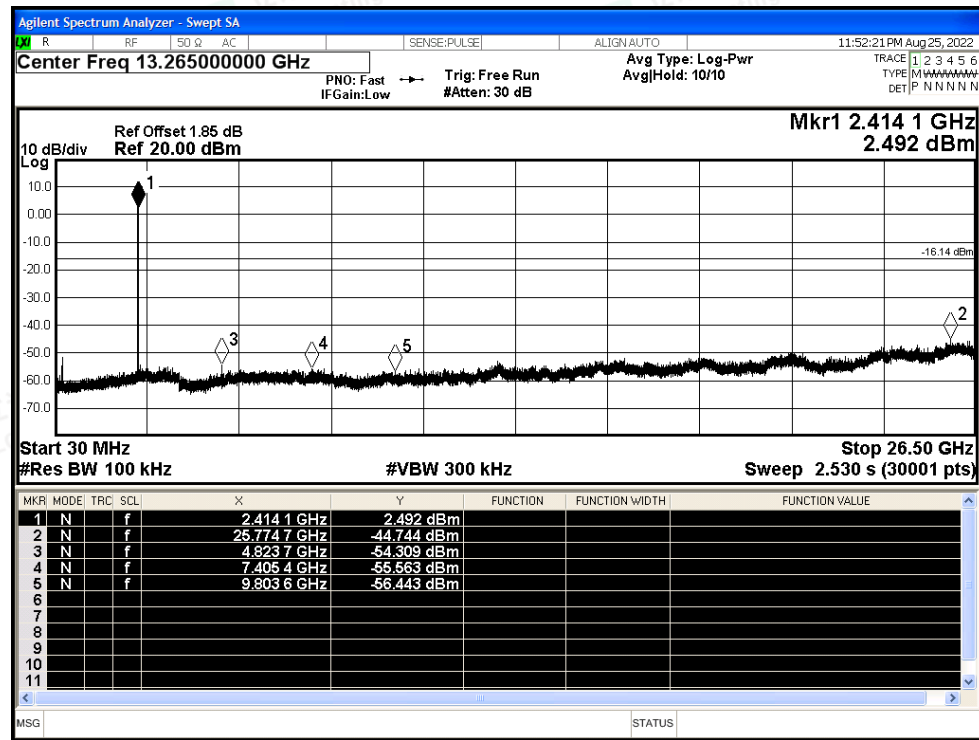


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant Ref



Tx. Spurious NVNT b 2412MHz Ant Emission



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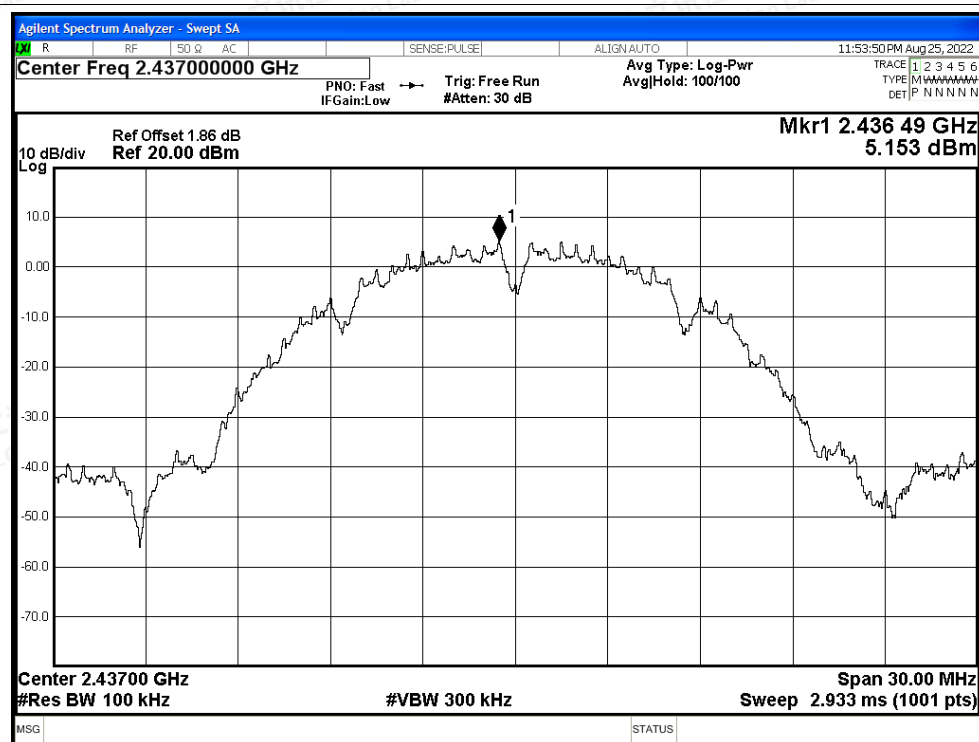
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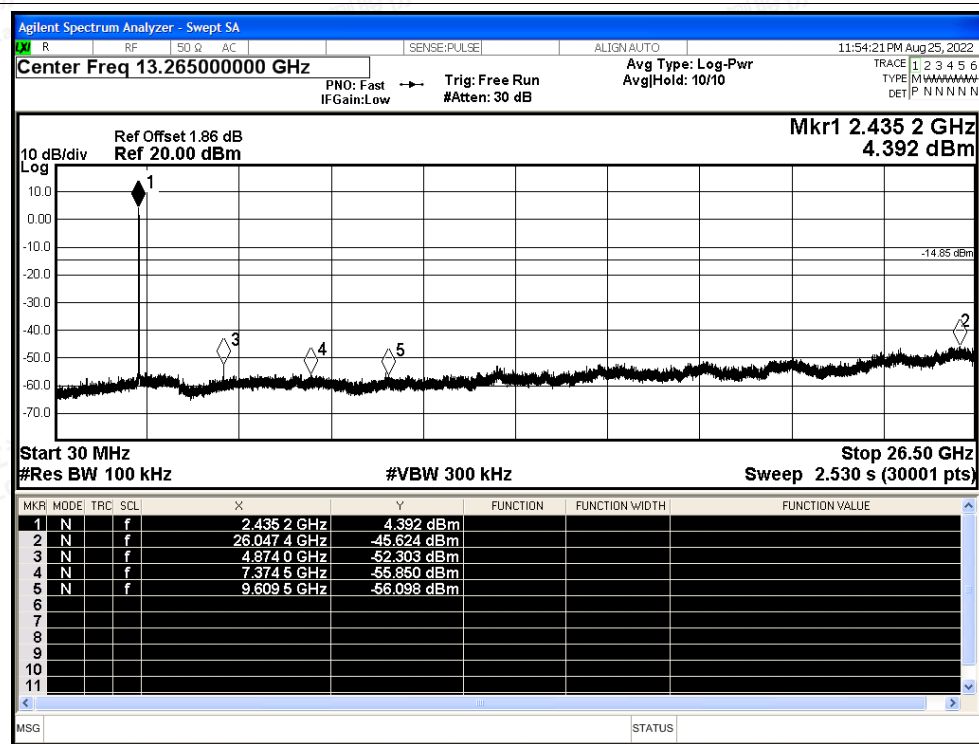
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant Ref



Tx. Spurious NVNT b 2437MHz Ant Emission



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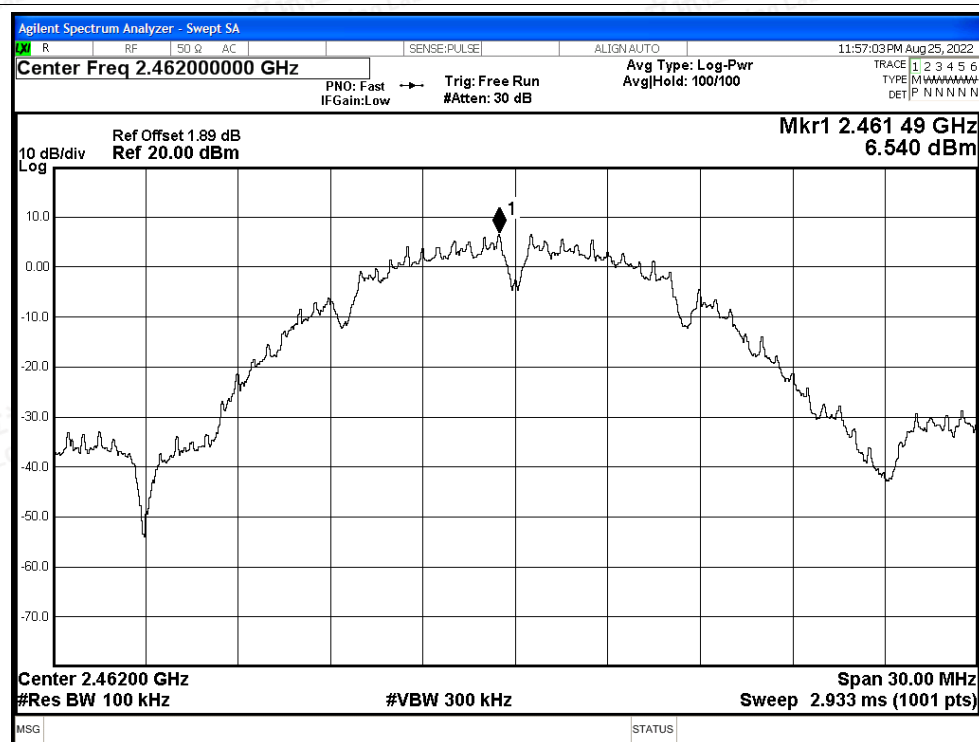
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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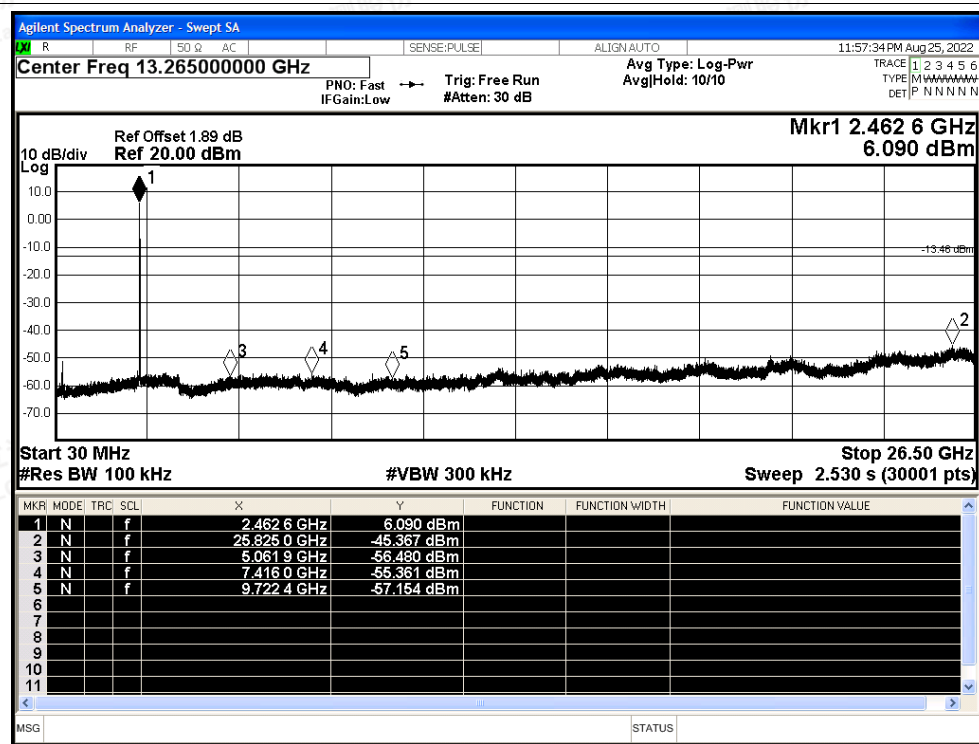
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Tx. Spurious NVNT b 2462MHz Ant Emission



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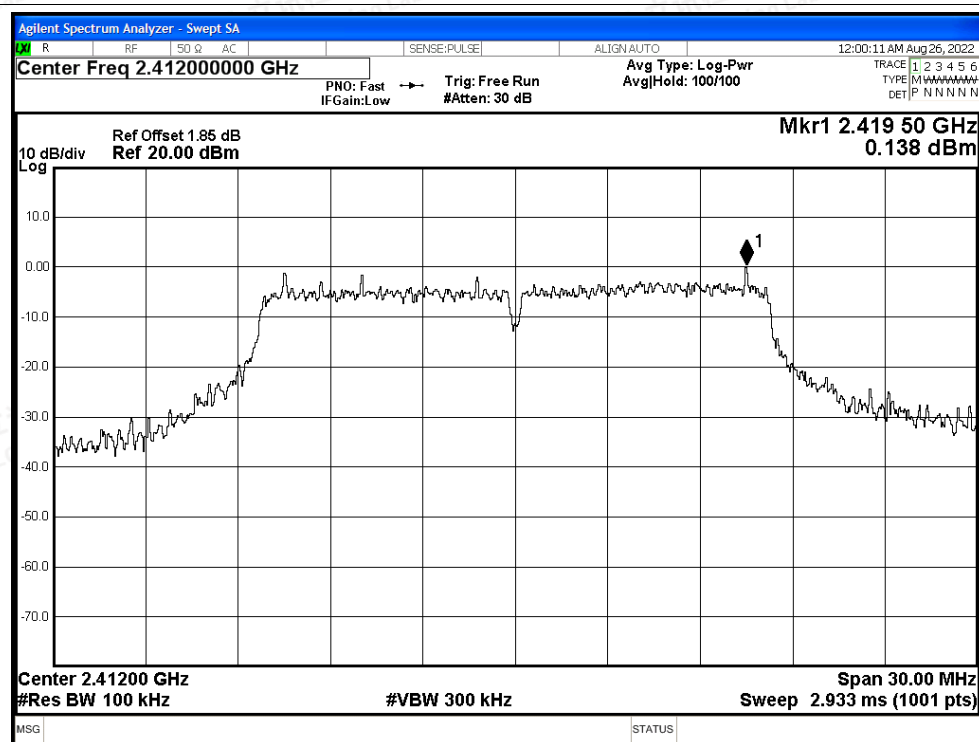
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

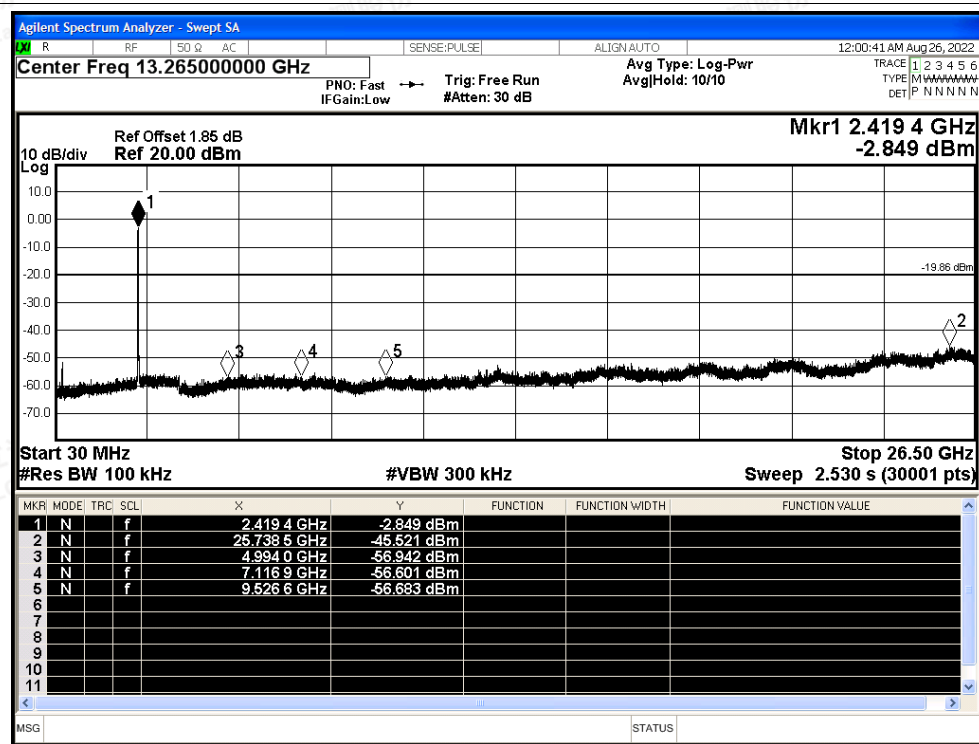
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant Ref



Tx. Spurious NVNT g 2412MHz Ant Emission



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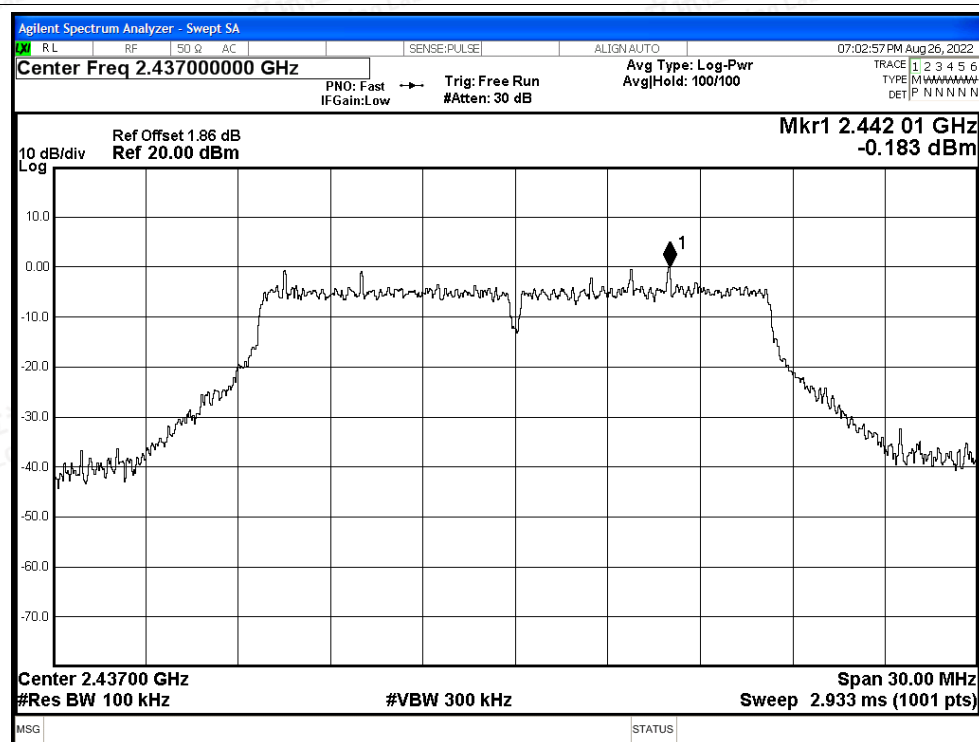
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

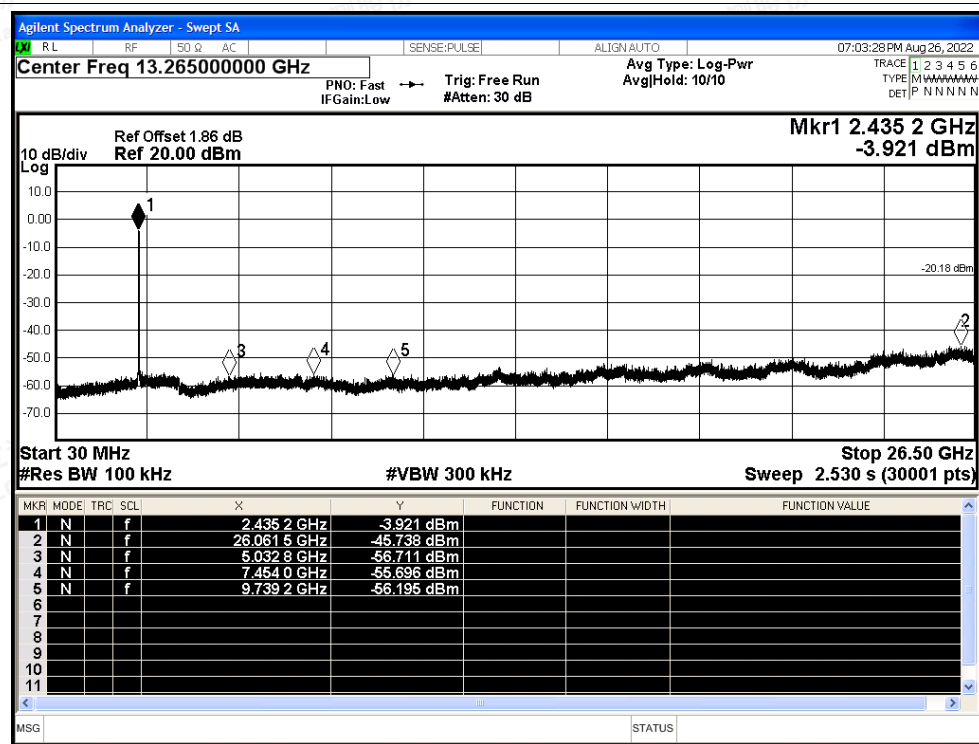
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Tx. Spurious NVNT g 2437MHz Ant Ref



Tx. Spurious NVNT g 2437MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

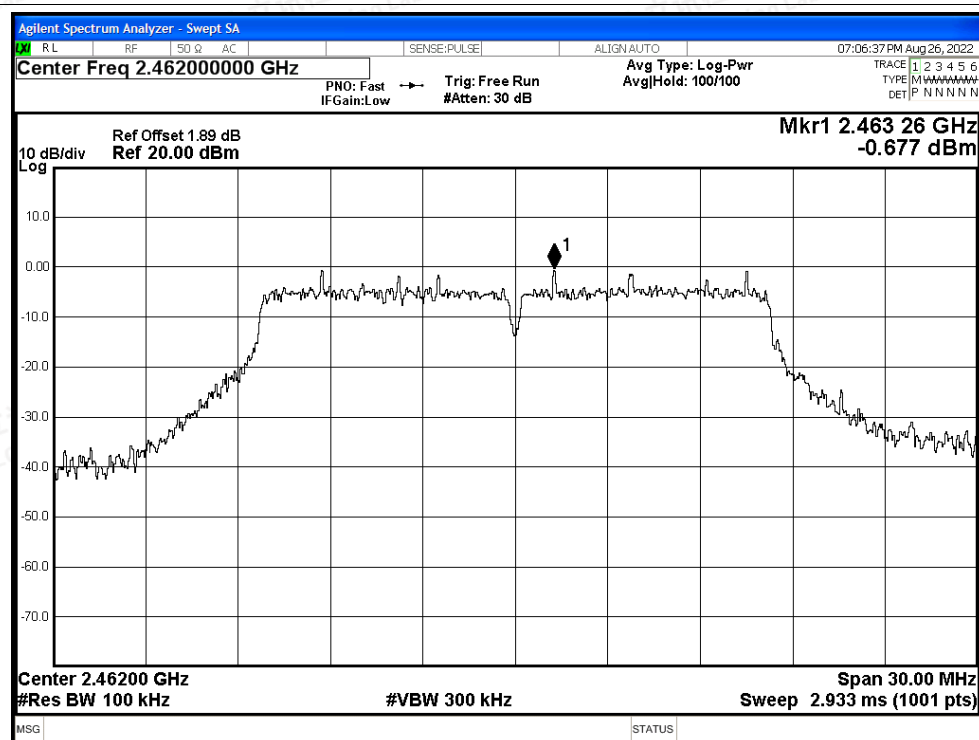
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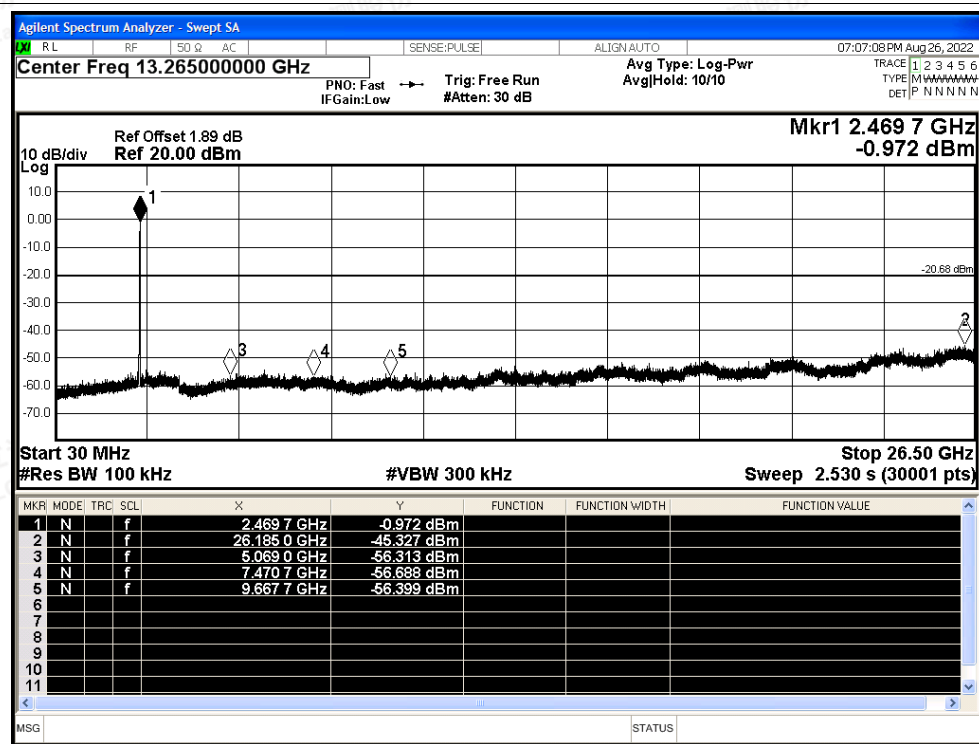
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Tx. Spurious NVNT g 2462MHz Ant Ref



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Shenzhen LCS Compliance Testing Laboratory Ltd.

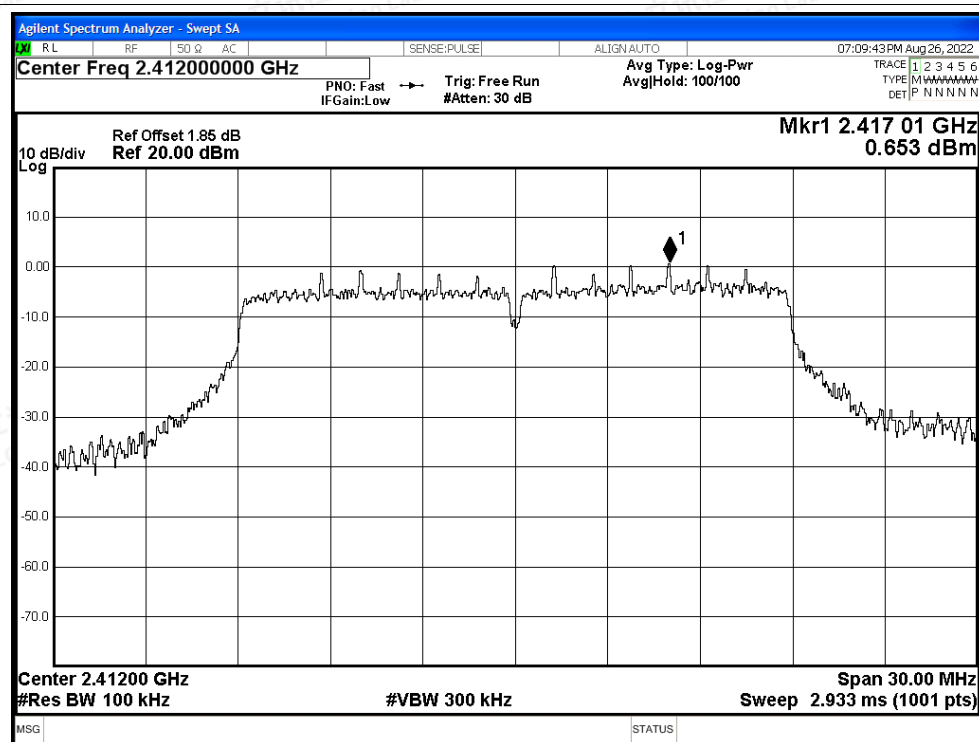
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

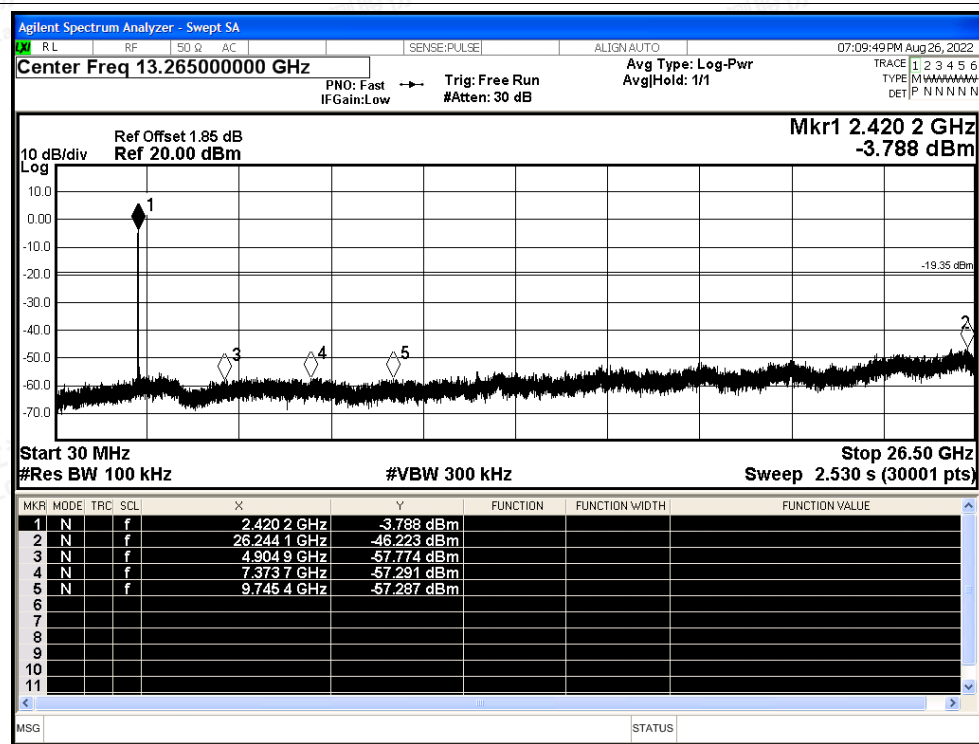
Scan code to check authenticity



Tx. Spurious NVNT n20 2412MHz Ant Ref



Tx. Spurious NVNT n20 2412MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

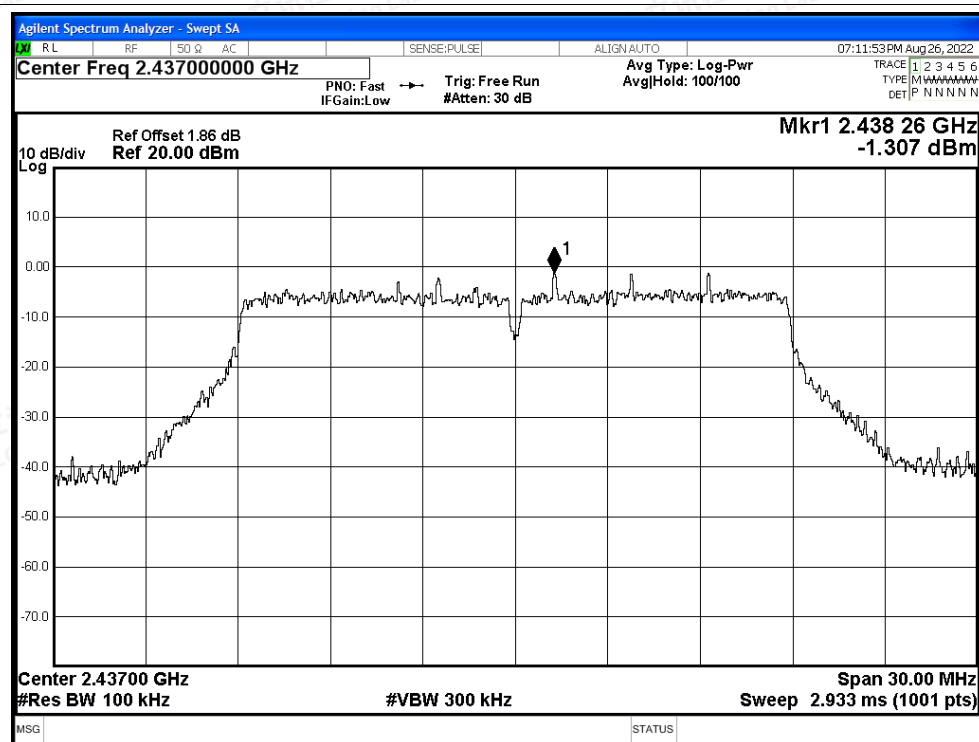
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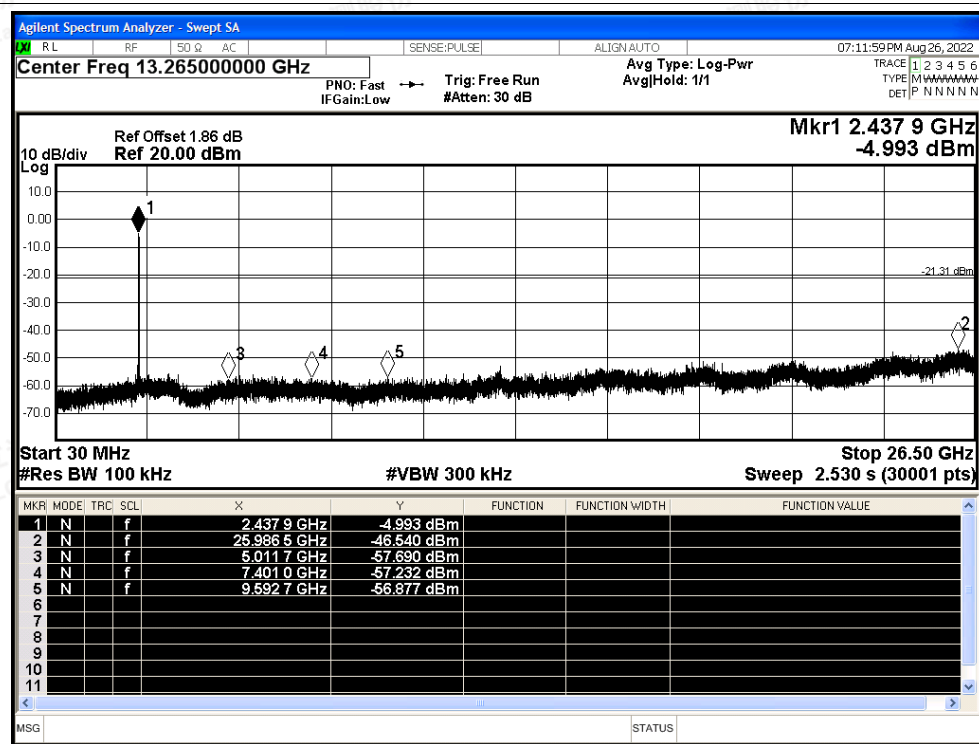
Scan code to check authenticity



Tx. Spurious NVNT n20 2437MHz Ant Ref



Tx. Spurious NVNT n20 2437MHz Ant Emission



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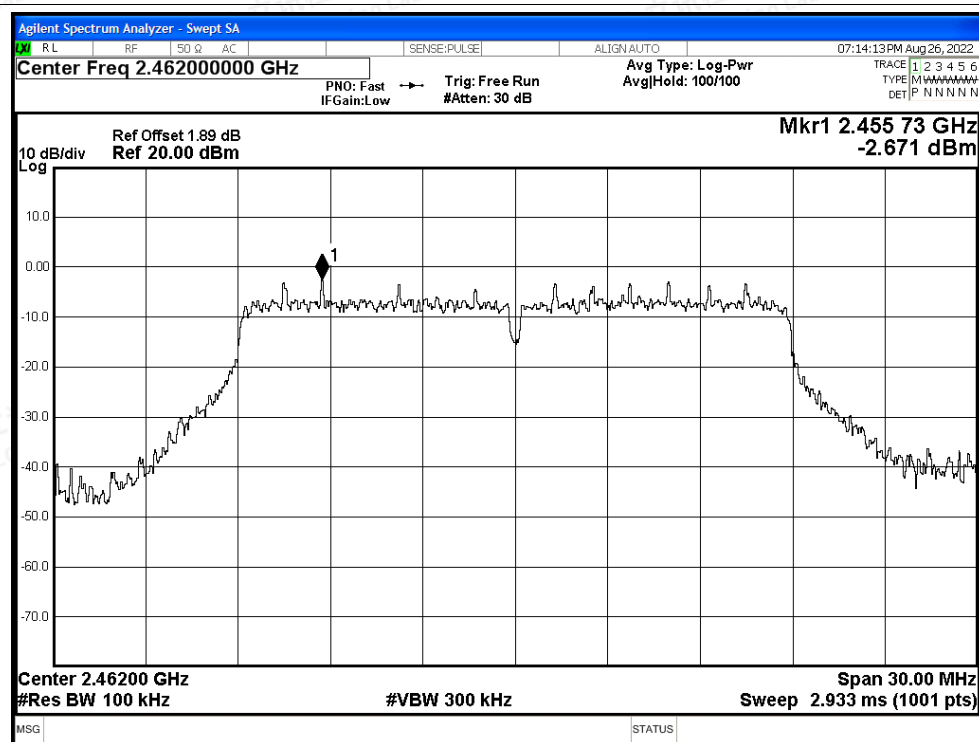
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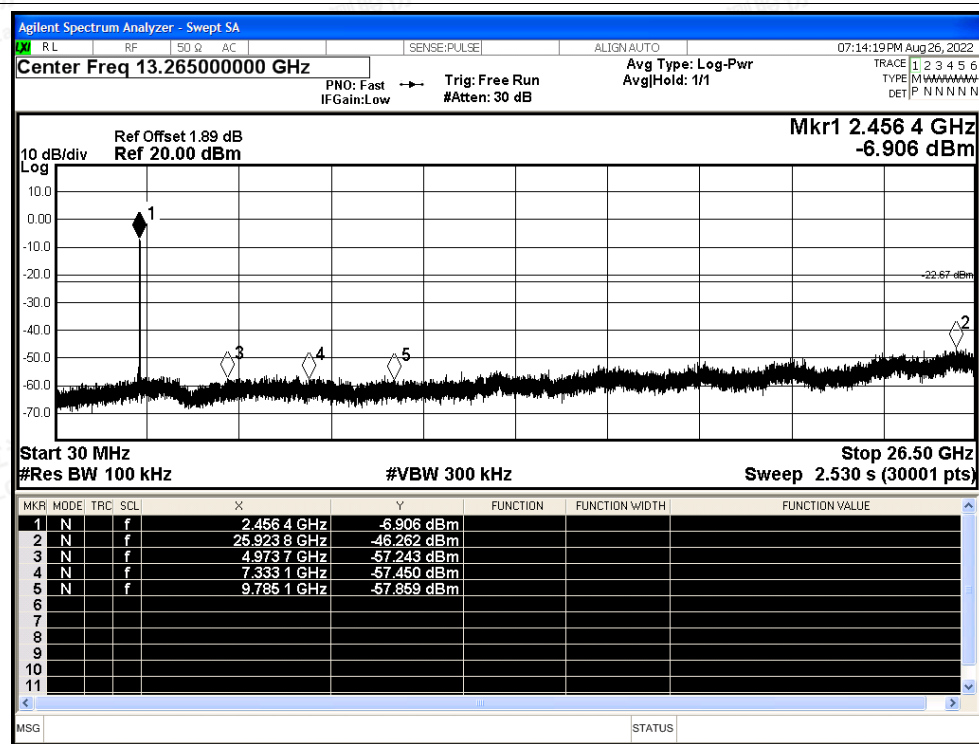
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Tx. Spurious NVNT n20 2462MHz Ant Ref



Tx. Spurious NVNT n20 2462MHz Ant Emission



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C.7 Duty Cycle

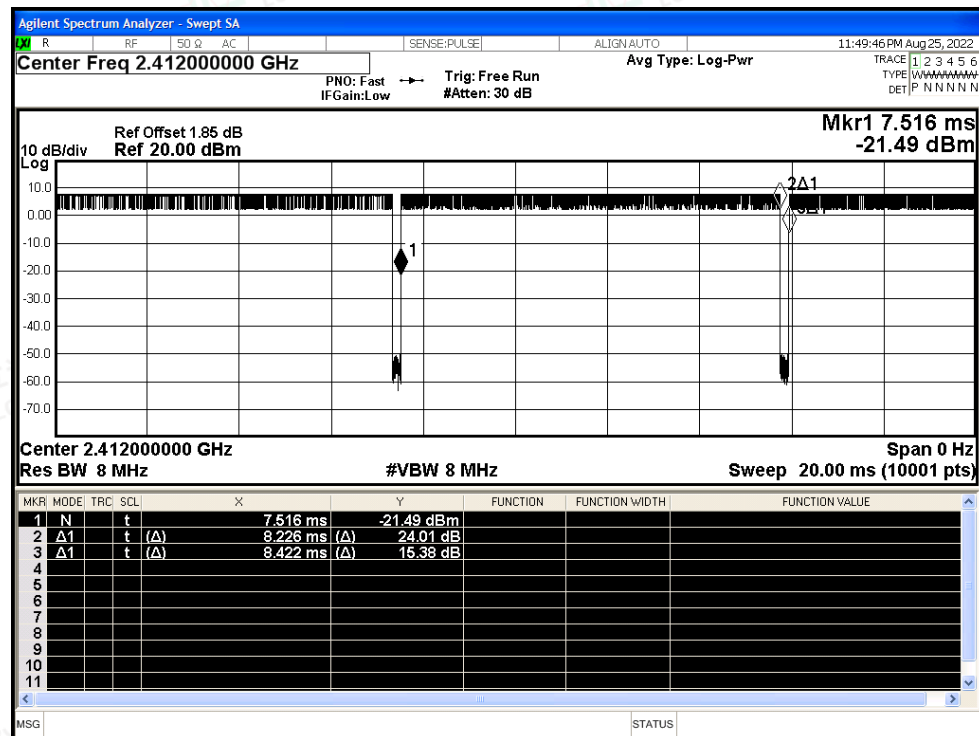
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant	97.67	0.1	0.12
NVNT	b	2437	Ant	97.67	0.1	0.12
NVNT	b	2462	Ant	97.67	0.1	0.12
NVNT	g	2412	Ant	87.45	0.58	0.73
NVNT	g	2437	Ant	87.45	0.58	0.73
NVNT	g	2462	Ant	87.32	0.59	0.73
NVNT	n20	2412	Ant	86.7	0.62	0.78
NVNT	n20	2437	Ant	86.57	0.63	0.78
NVNT	n20	2462	Ant	86.57	0.63	0.78



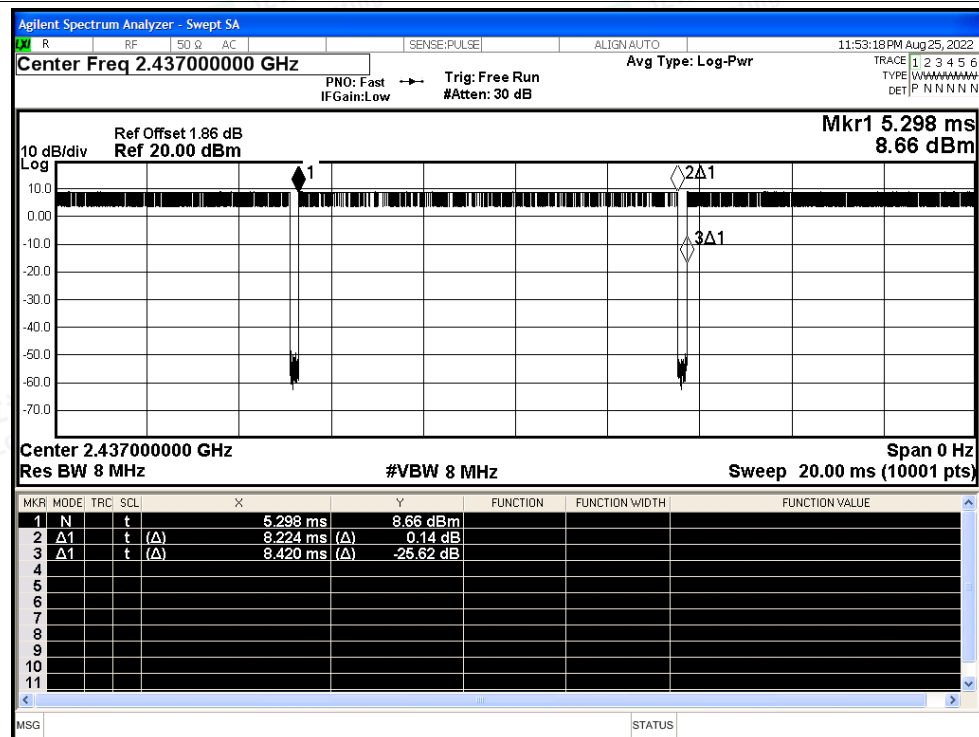


Test Graphs

Duty Cycle NVNT b 2412MHz Ant



Duty Cycle NVNT b 2437MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

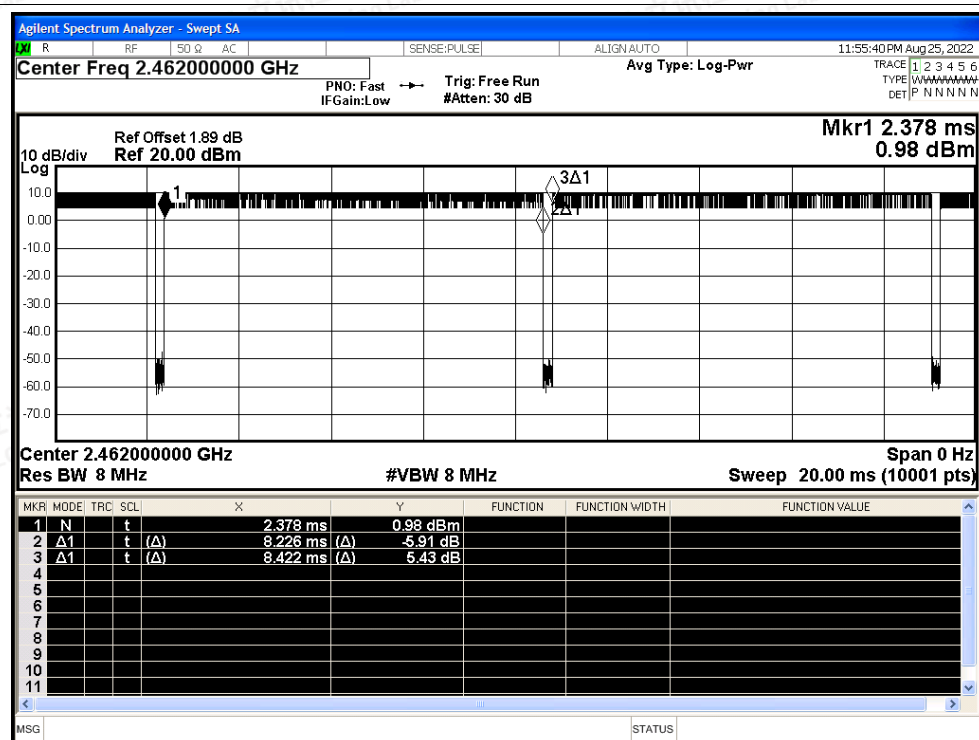
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

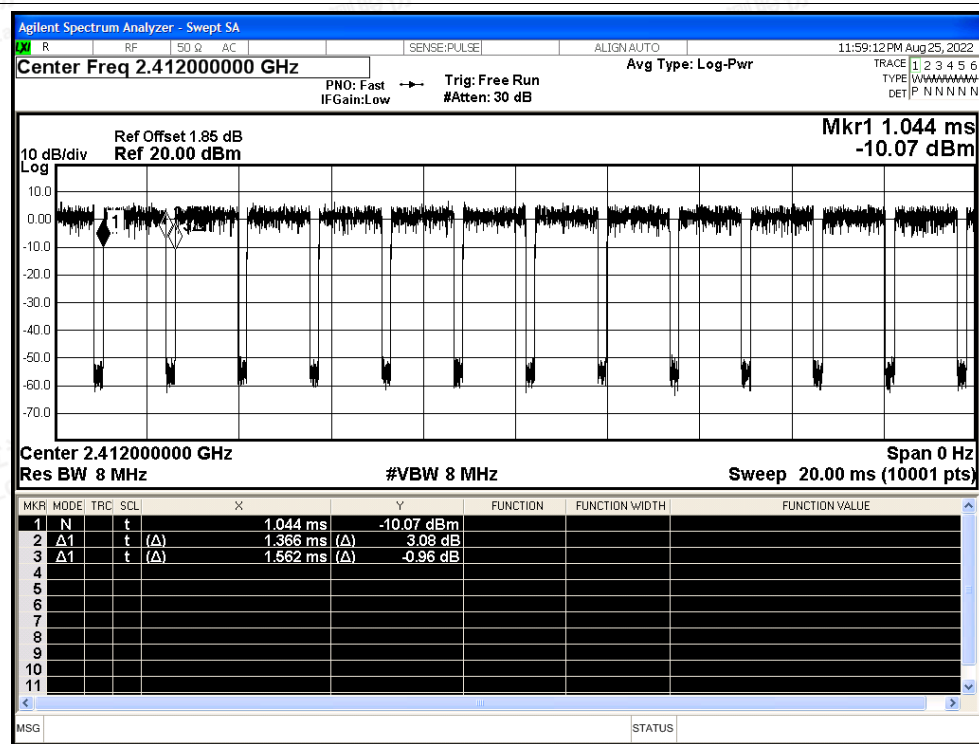
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant



Duty Cycle NVNT g 2412MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

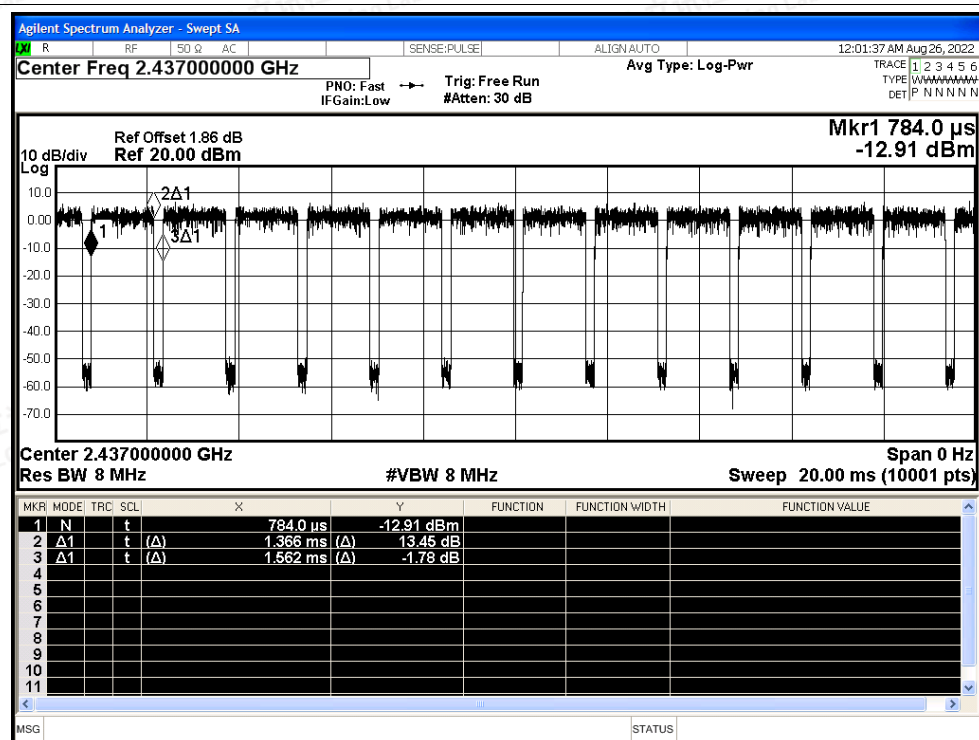
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

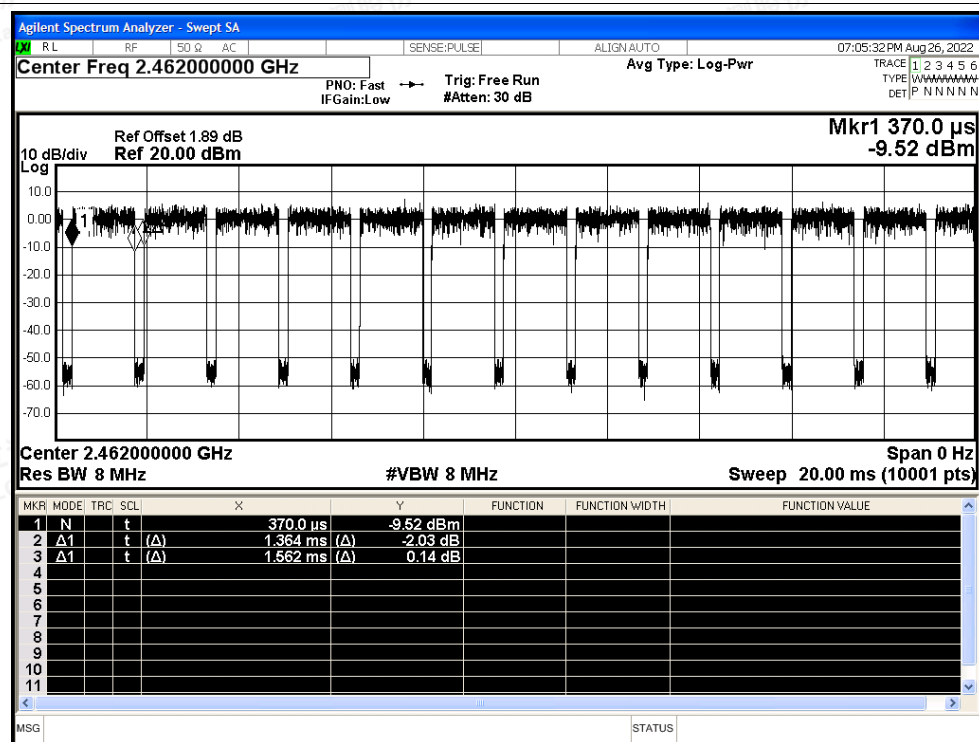
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant

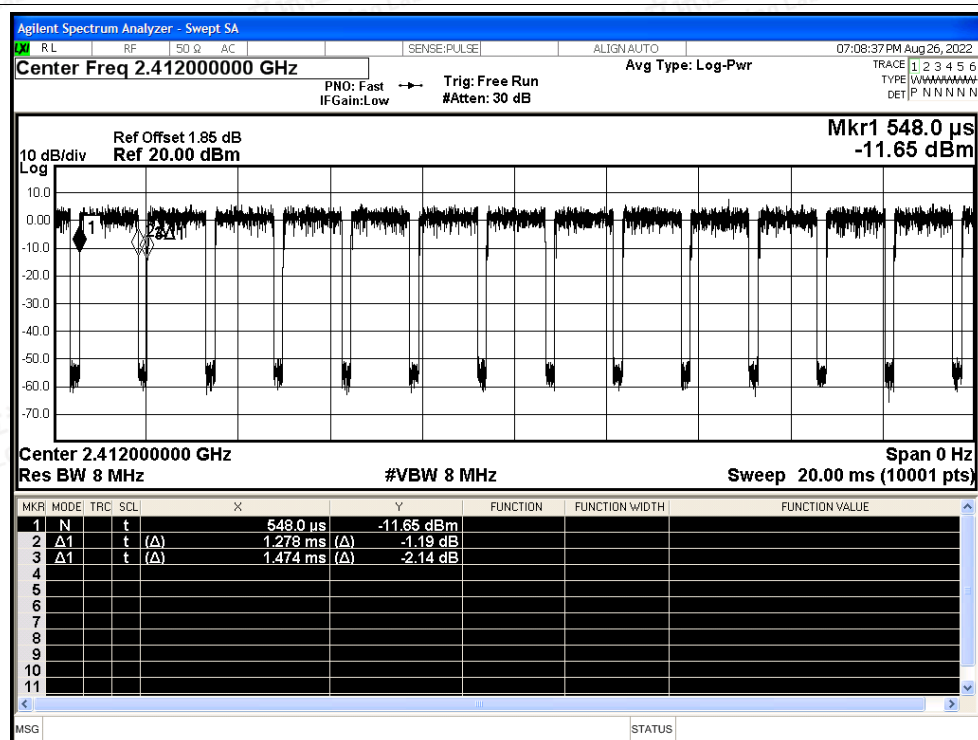


Duty Cycle NVNT g 2462MHz Ant

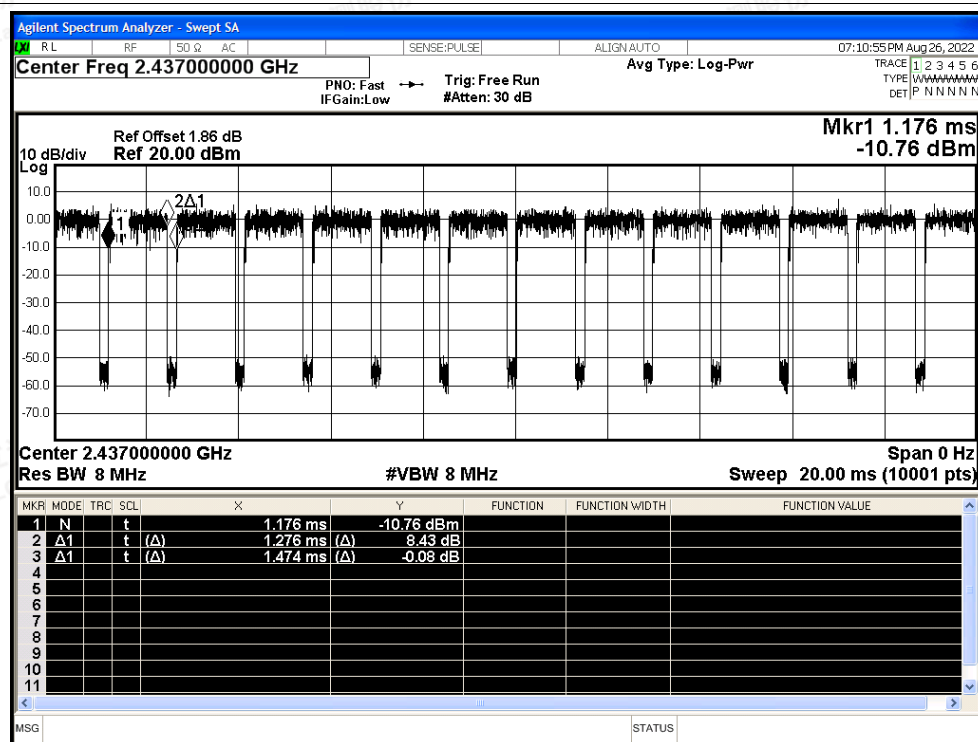




Duty Cycle NVNT n20 2412MHz Ant



Duty Cycle NVNT n20 2437MHz Ant

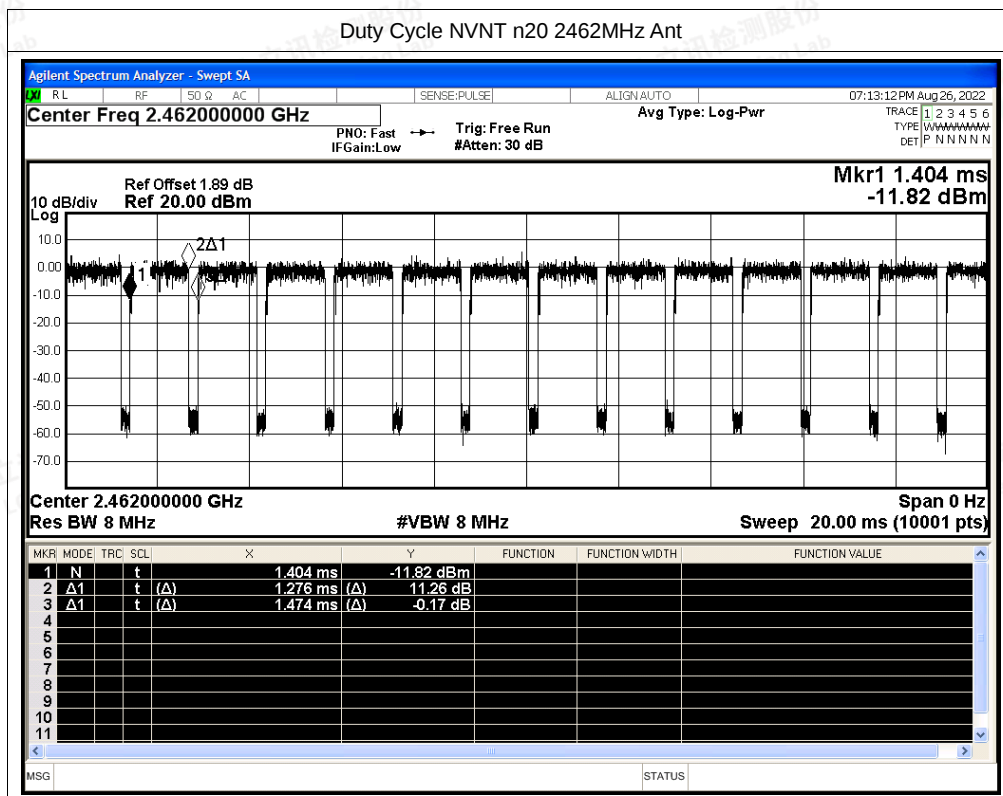


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C.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant	2310	-51.71	2	45.55	Peak	74	Pass
NVNT	b	2412	Ant	2310	-60.64	2	36.62	Average	54	Pass
NVNT	b	2412	Ant	2380.785	-47.54	2	49.72	Peak	74	Pass
NVNT	b	2412	Ant	2389.911	-59.79	2	37.47	Average	54	Pass
NVNT	b	2412	Ant	2390	-48.3	2	48.96	Peak	74	Pass
NVNT	b	2412	Ant	2390	-59.75	2	37.51	Average	54	Pass
NVNT	b	2462	Ant	2483.5	-43.31	2	53.95	Peak	74	Pass
NVNT	b	2462	Ant	2483.5	-50.04	2	47.22	Average	54	Pass
NVNT	b	2462	Ant	2483.517	-43.31	2	53.95	Peak	74	Pass
NVNT	b	2462	Ant	2483.517	-50.04	2	47.22	Average	54	Pass
NVNT	b	2462	Ant	2500	-51.34	2	45.92	Peak	74	Pass
NVNT	b	2462	Ant	2500	-59.93	2	37.33	Average	54	Pass
NVNT	g	2412	Ant	2310	-50.63	2	46.63	Peak	74	Pass
NVNT	g	2412	Ant	2310	-60.36	2	36.9	Average	54	Pass
NVNT	g	2412	Ant	2389.443	-36.39	2	60.87	Peak	74	Pass
NVNT	g	2412	Ant	2389.911	-52.39	2	44.87	Average	54	Pass
NVNT	g	2412	Ant	2390	-39.26	2	58	Peak	74	Pass
NVNT	g	2412	Ant	2390	-52.2	2	45.06	Average	54	Pass
NVNT	g	2462	Ant	2483.5	-32.78	2	64.48	Peak	74	Pass
NVNT	g	2462	Ant	2483.5	-46.75	2	50.51	Average	54	Pass
NVNT	g	2462	Ant	2483.623	-27.87	2	69.39	Peak	74	Pass
NVNT	g	2462	Ant	2483.517	-46.75	2	50.51	Average	54	Pass
NVNT	g	2462	Ant	2500	-50.29	2	46.97	Peak	74	Pass
NVNT	g	2462	Ant	2500	-59.69	2	37.57	Average	54	Pass
NVNT	n20	2412	Ant	2310	-49.81	2	47.45	Peak	74	Pass
NVNT	n20	2412	Ant	2310	-60.25	2	37.01	Average	54	Pass
NVNT	n20	2412	Ant	2389.326	-36.85	2	60.41	Peak	74	Pass
NVNT	n20	2412	Ant	2389.911	-51.99	2	45.27	Average	54	Pass
NVNT	n20	2412	Ant	2390	-39.1	2	58.16	Peak	74	Pass
NVNT	n20	2412	Ant	2390	-52.03	2	45.23	Average	54	Pass
NVNT	n20	2462	Ant	2483.5	-34.79	2	62.47	Peak	74	Pass
NVNT	n20	2462	Ant	2483.5	-49.53	2	47.73	Average	54	Pass
NVNT	n20	2462	Ant	2483.994	-29.84	2	67.42	Peak	74	Pass
NVNT	n20	2462	Ant	2483.517	-49.53	2	47.73	Average	54	Pass
NVNT	n20	2462	Ant	2500	-49.23	2	48.03	Peak	74	Pass
NVNT	n20	2462	Ant	2500	-59.52	2	37.74	Average	54	Pass



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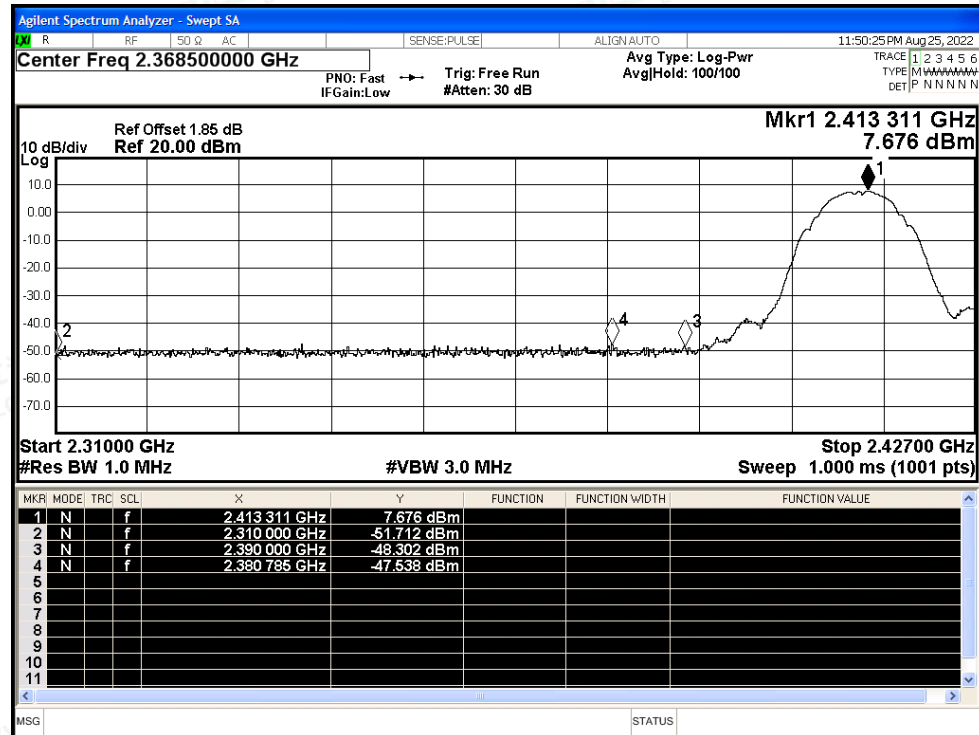
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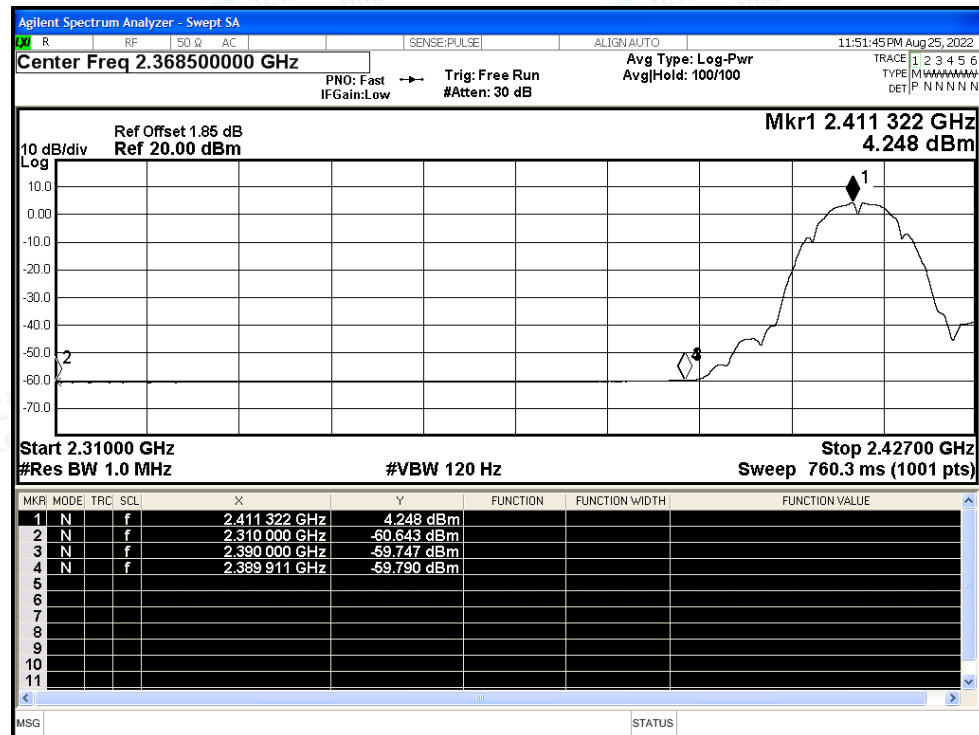


Test Graphs

Restrict Band NVNT b 2412MHz Ant Peak



Restrict Band NVNT b 2412MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

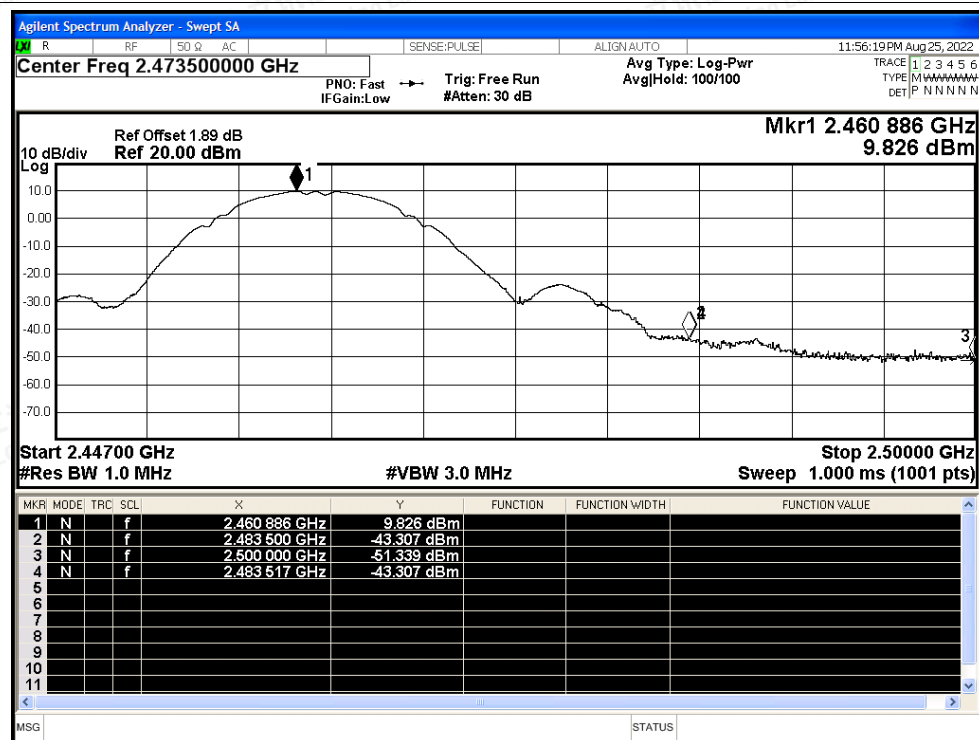
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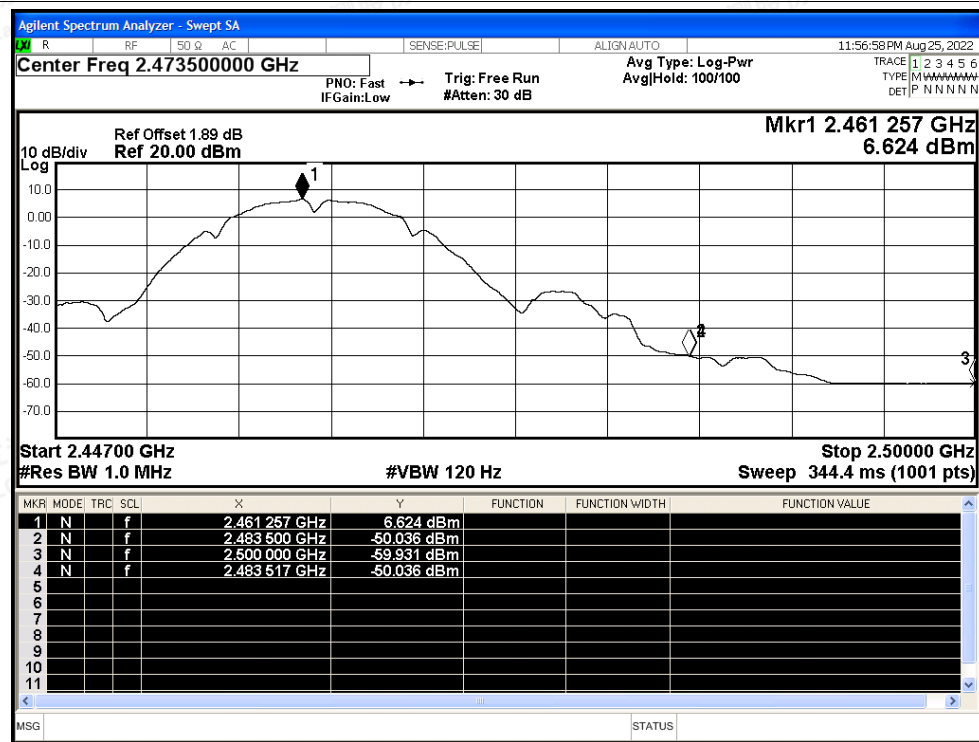
Scan code to check authenticity



Restrict Band NVNT b 2462MHz Ant Peak



Restrict Band NVNT b 2462MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

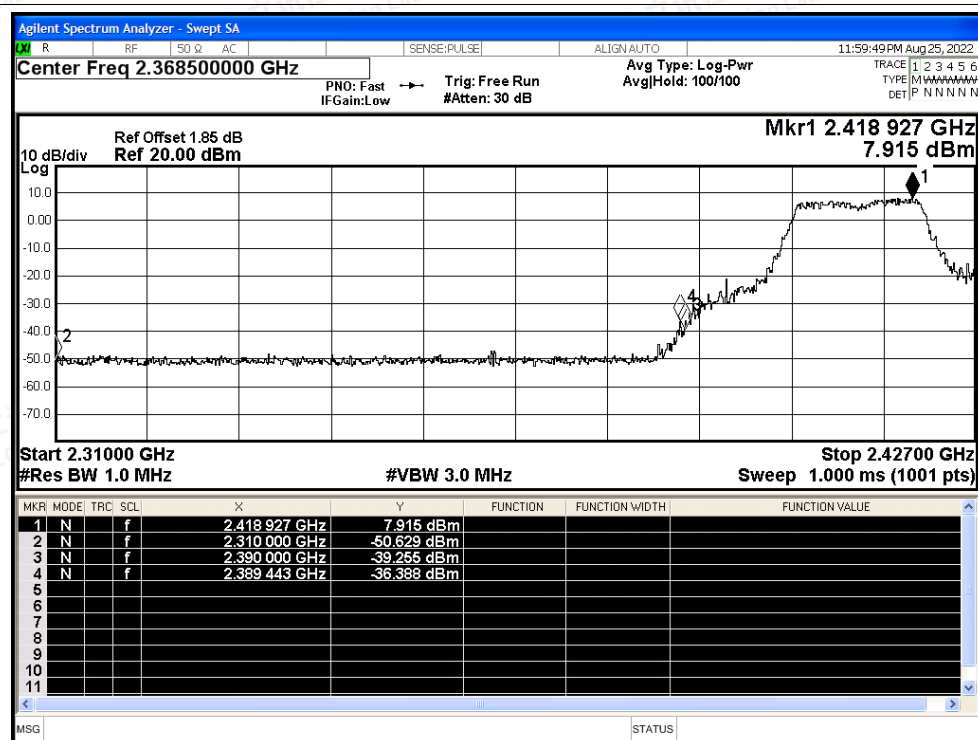
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

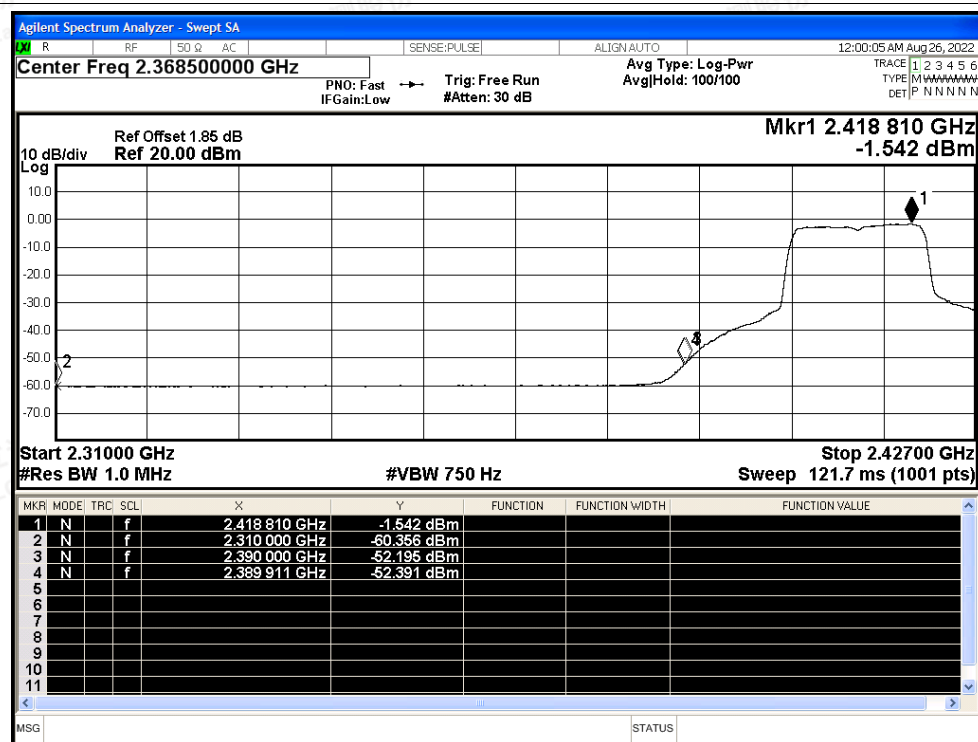
Scan code to check authenticity



Restrict Band NVNT g 2412MHz Ant Peak



Restrict Band NVNT g 2412MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

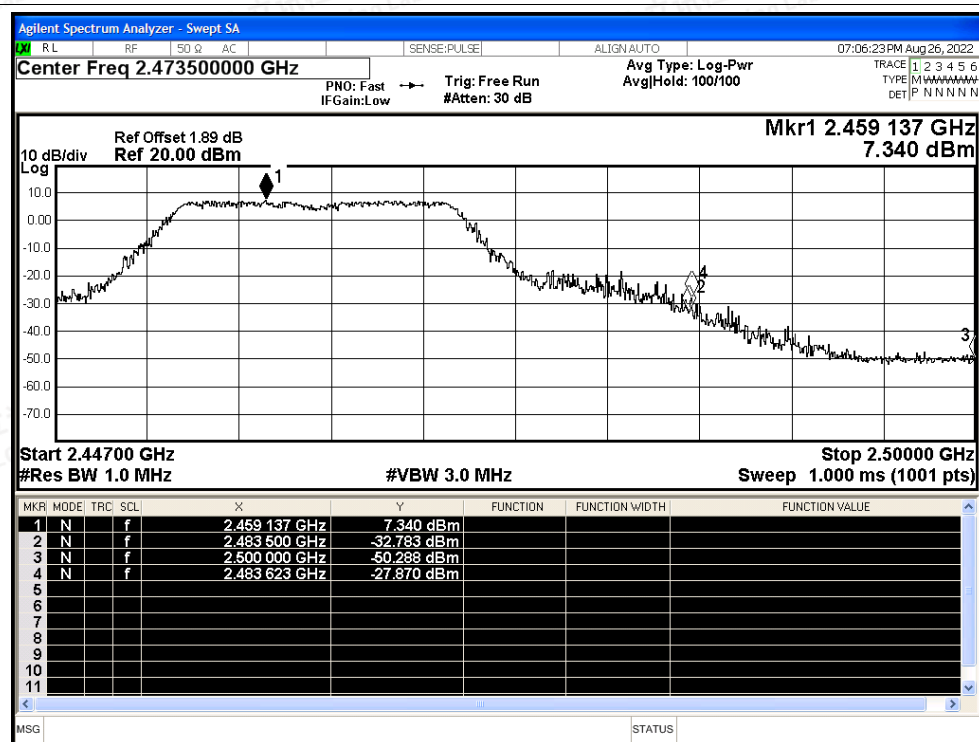
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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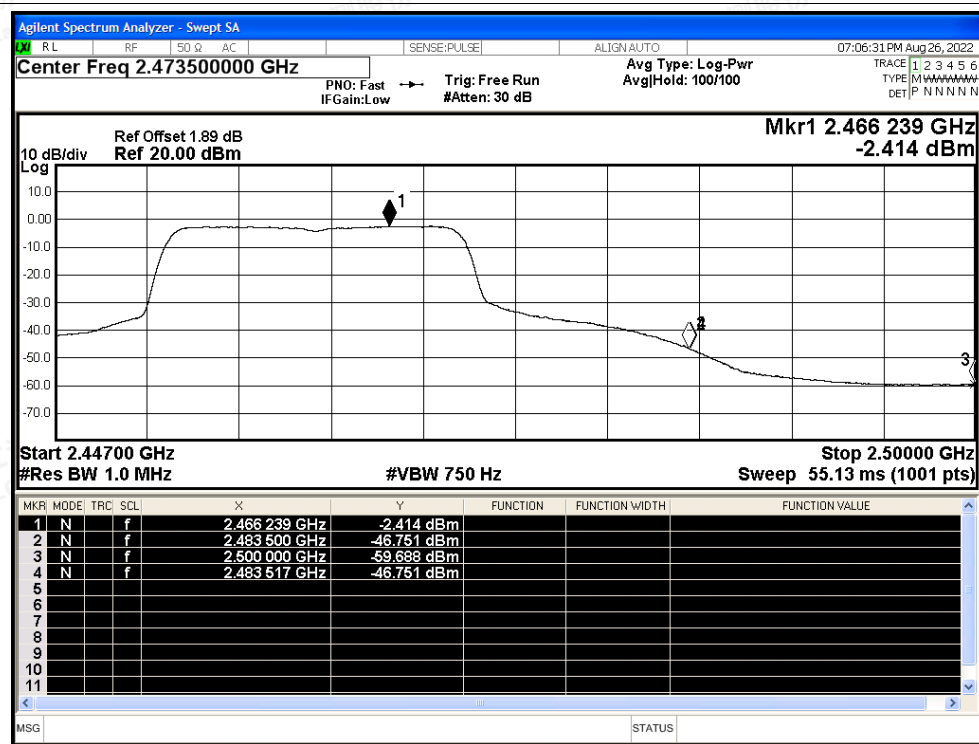
Scan code to check authenticity



Restrict Band NVNT g 2462MHz Ant Peak



Restrict Band NVNT g 2462MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

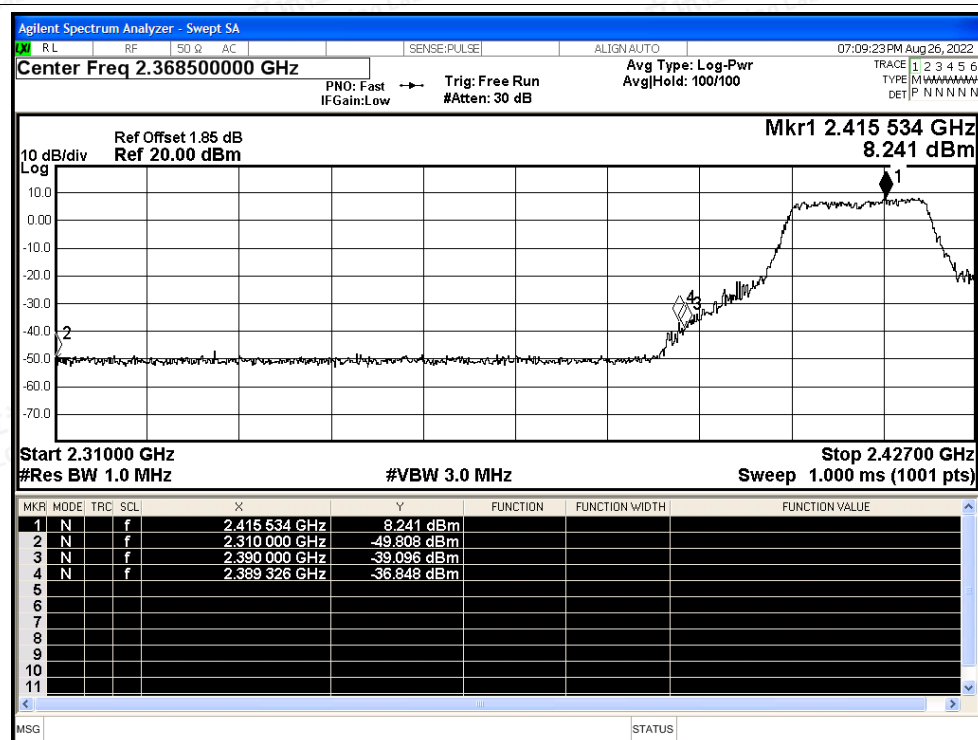
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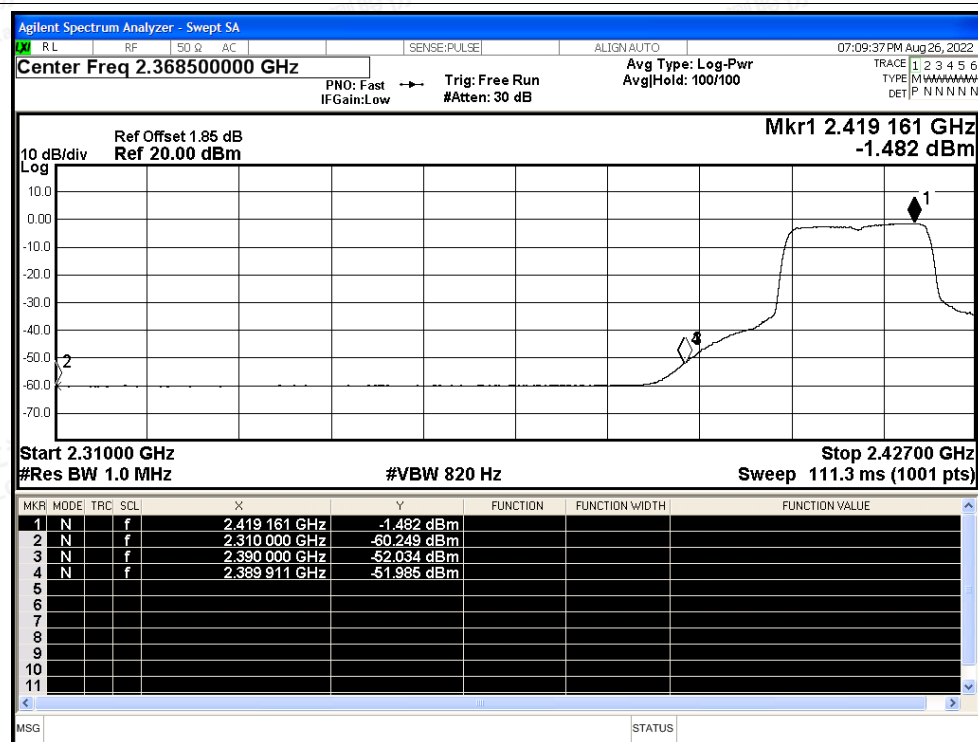
Scan code to check authenticity



Restrict Band NVNT n20 2412MHz Ant Peak



Restrict Band NVNT n20 2412MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

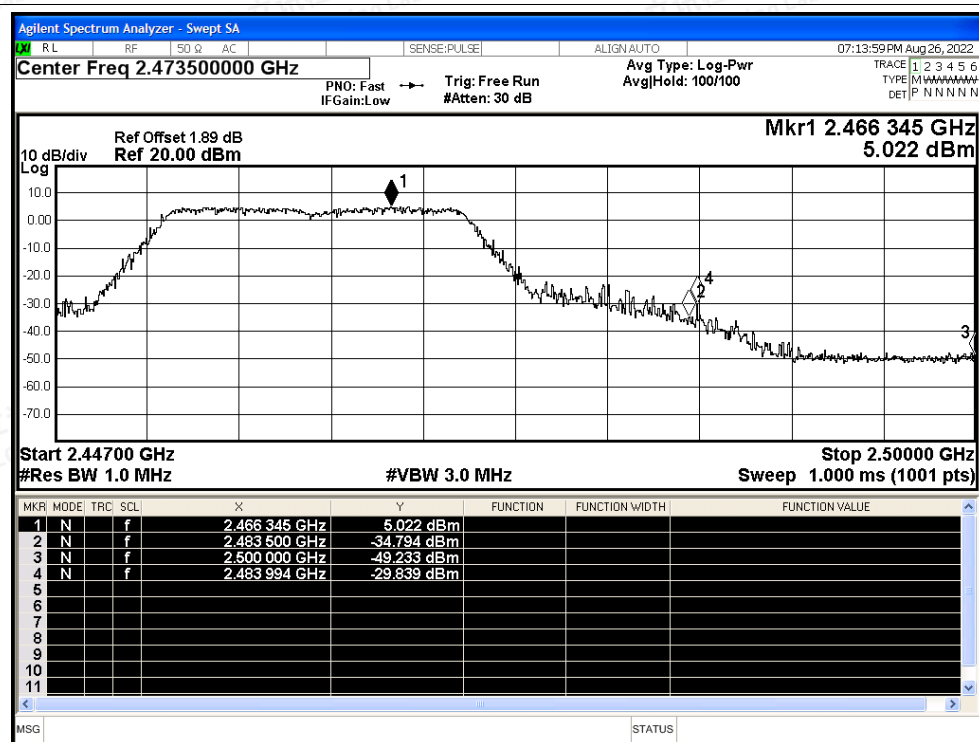
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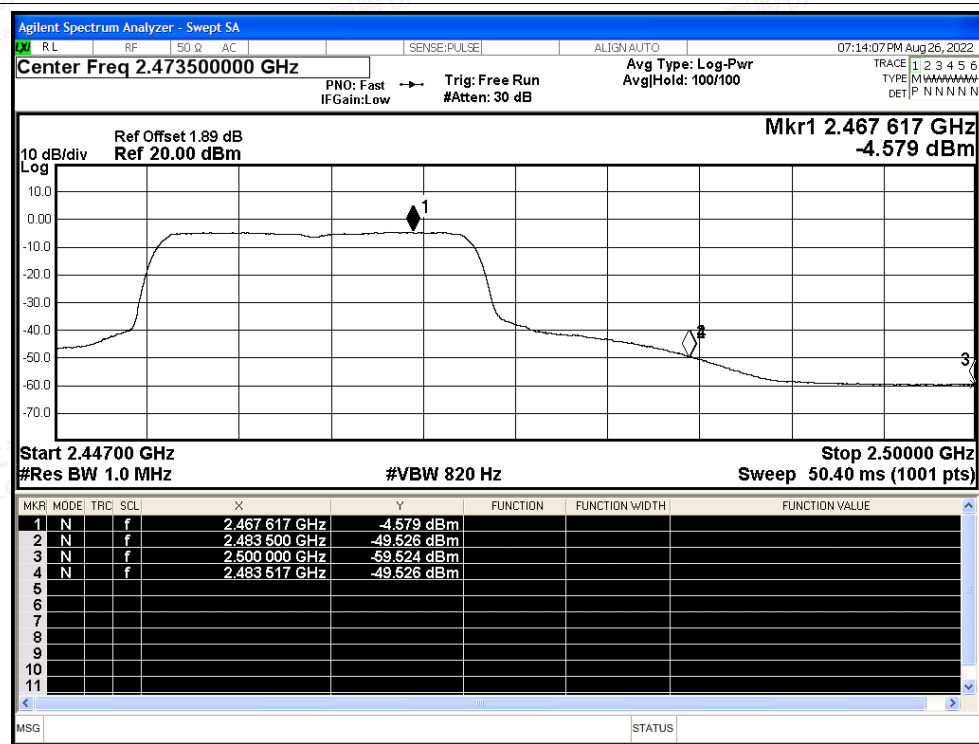
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Restrict Band NVNT n20 2462MHz Ant Peak



Restrict Band NVNT n20 2462MHz Ant Average



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