



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Retroid pocket

Test Model: Retroid Pocket 4 pro

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng Nick Peng
Supervised by:	Taylor Hu Taylor Hu





C.1 -6dB Bandwidth

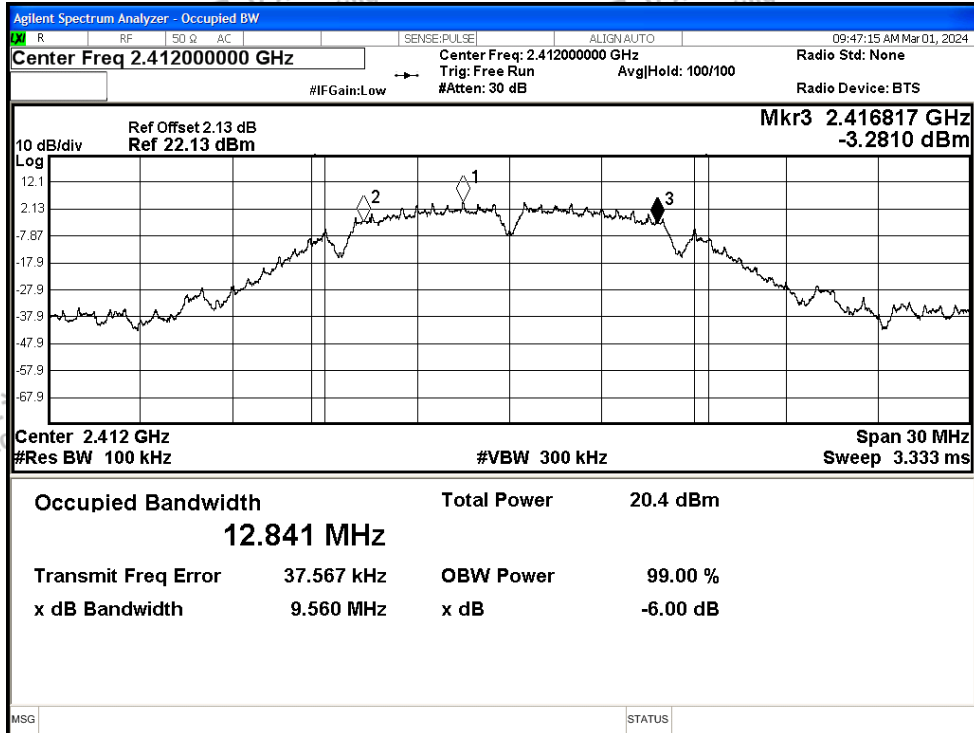
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	9.56	≥ 0.5	Pass
NVNT	b	2437	Ant0	9.557	≥ 0.5	Pass
NVNT	b	2462	Ant0	9.588	≥ 0.5	Pass
NVNT	g	2412	Ant0	15.046	≥ 0.5	Pass
NVNT	g	2437	Ant0	13.805	≥ 0.5	Pass
NVNT	g	2462	Ant0	14.939	≥ 0.5	Pass
NVNT	n20	2412	Ant0	15.122	≥ 0.5	Pass
NVNT	n20	2437	Ant0	15.933	≥ 0.5	Pass
NVNT	n20	2462	Ant0	15.424	≥ 0.5	Pass
NVNT	n40	2422	Ant0	35.154	≥ 0.5	Pass
NVNT	n40	2437	Ant0	35.083	≥ 0.5	Pass
NVNT	n40	2452	Ant0	35.055	≥ 0.5	Pass



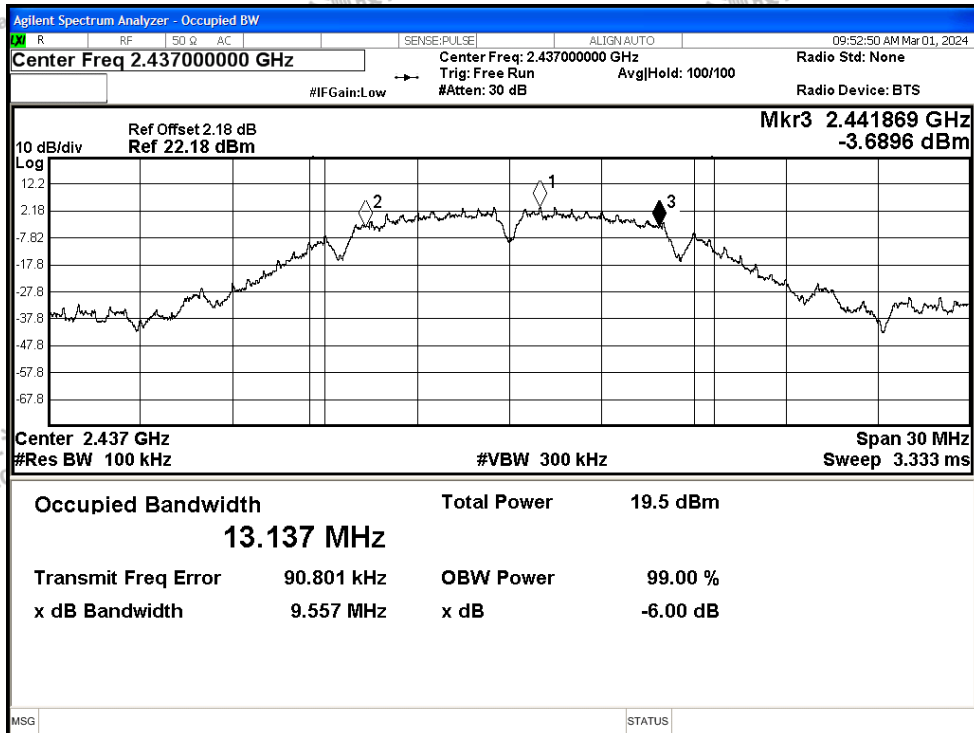


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0



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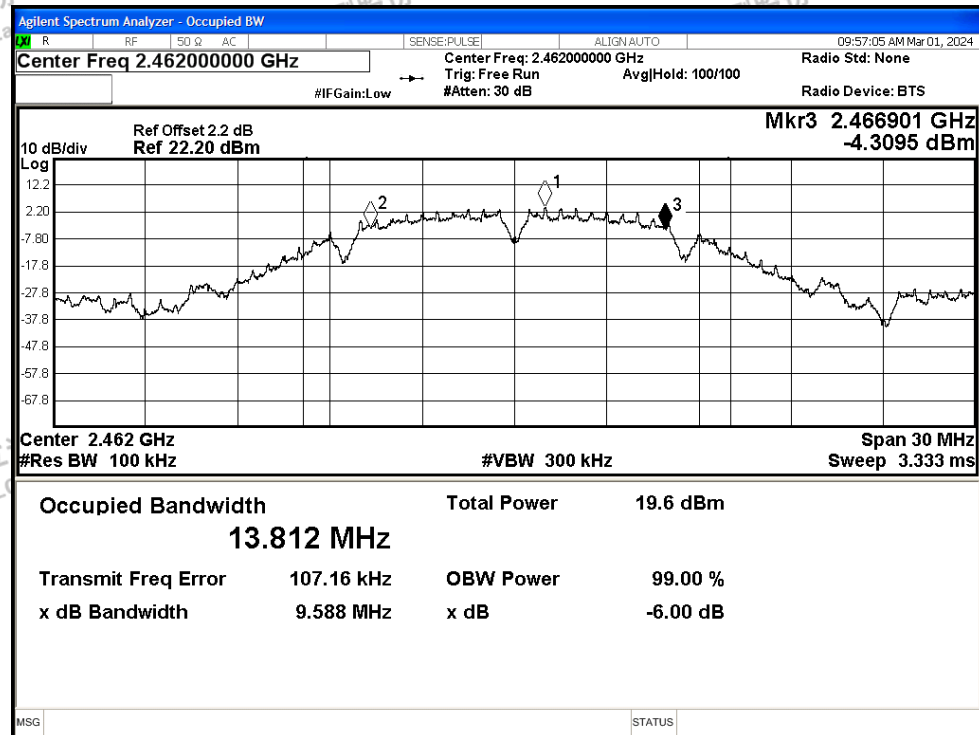
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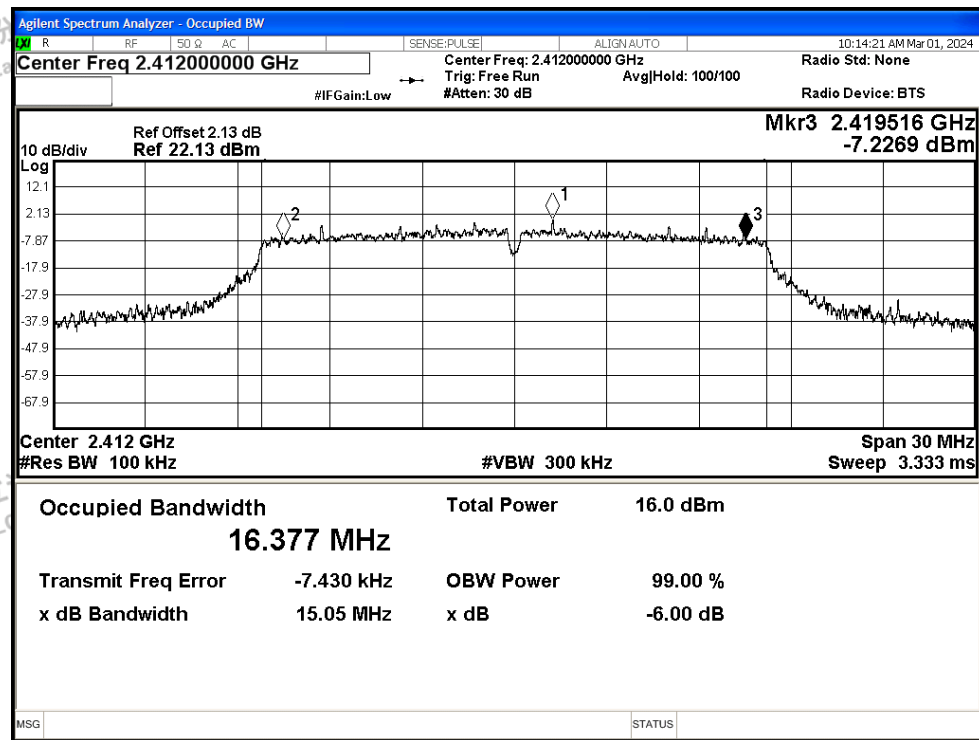
Scan code to check authenticity



-6dB Bandwidth NVNT b 2462MHz Ant0



-6dB Bandwidth NVNT g 2412MHz Ant0



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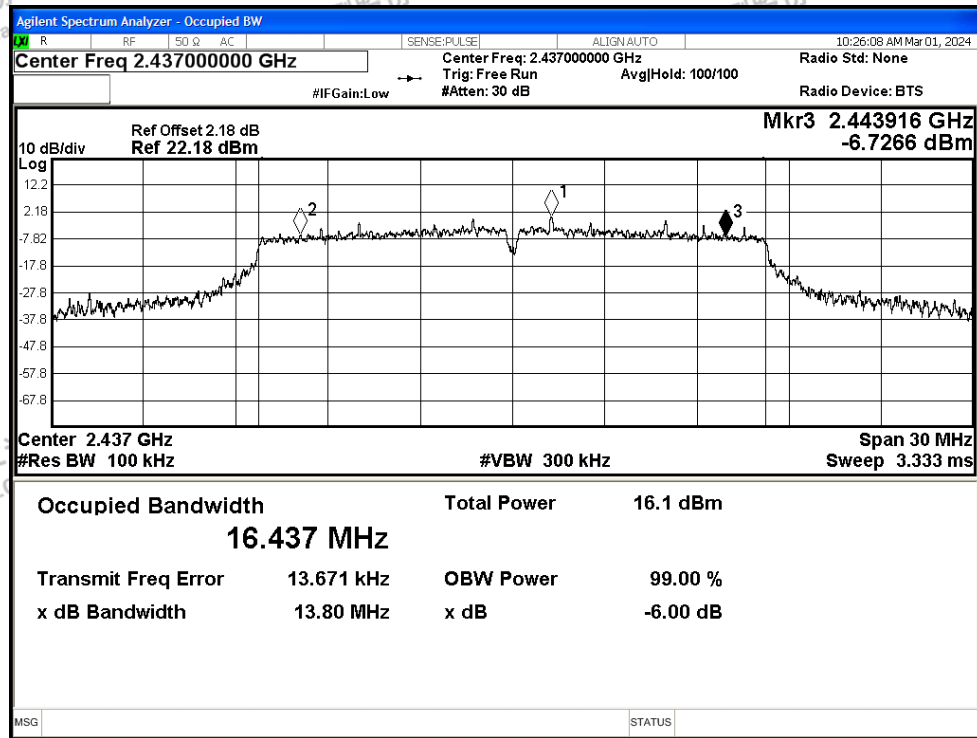
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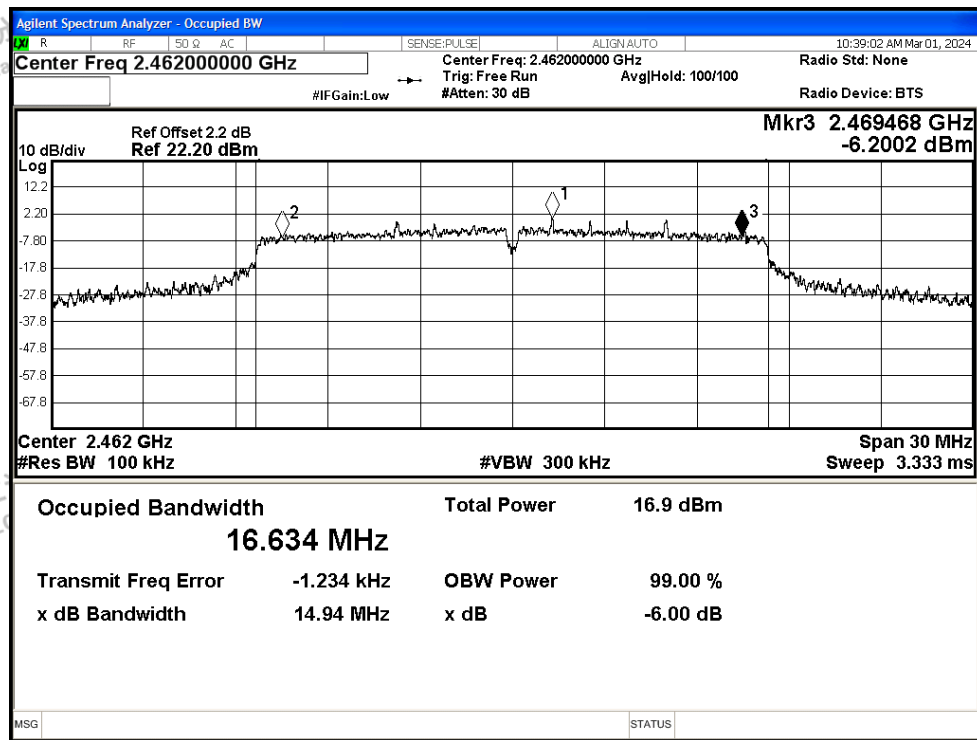
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0



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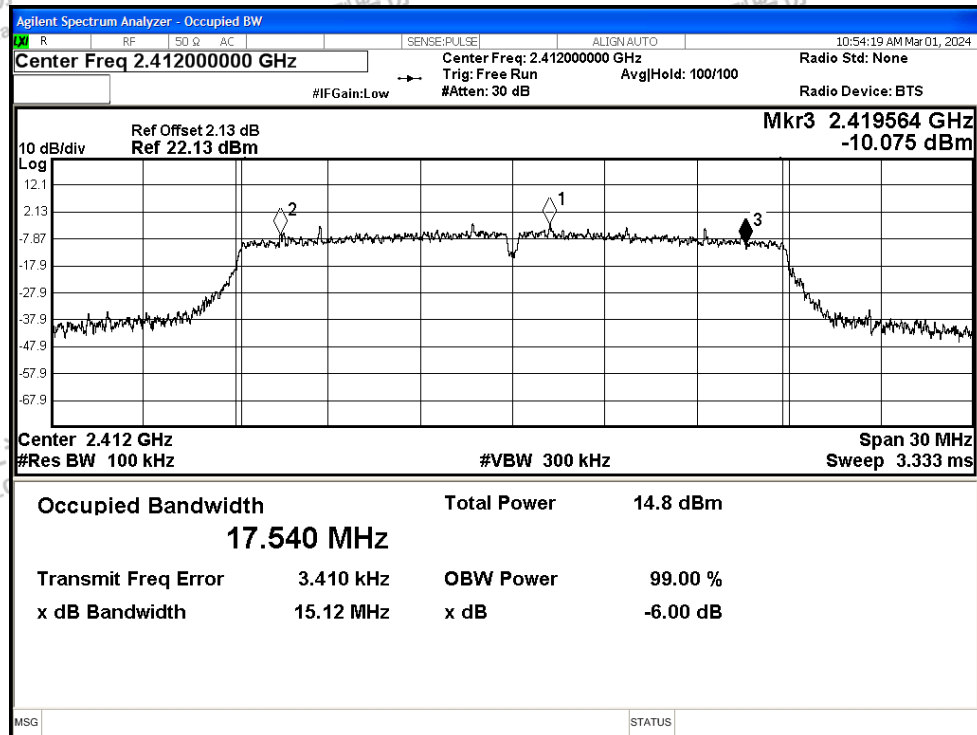
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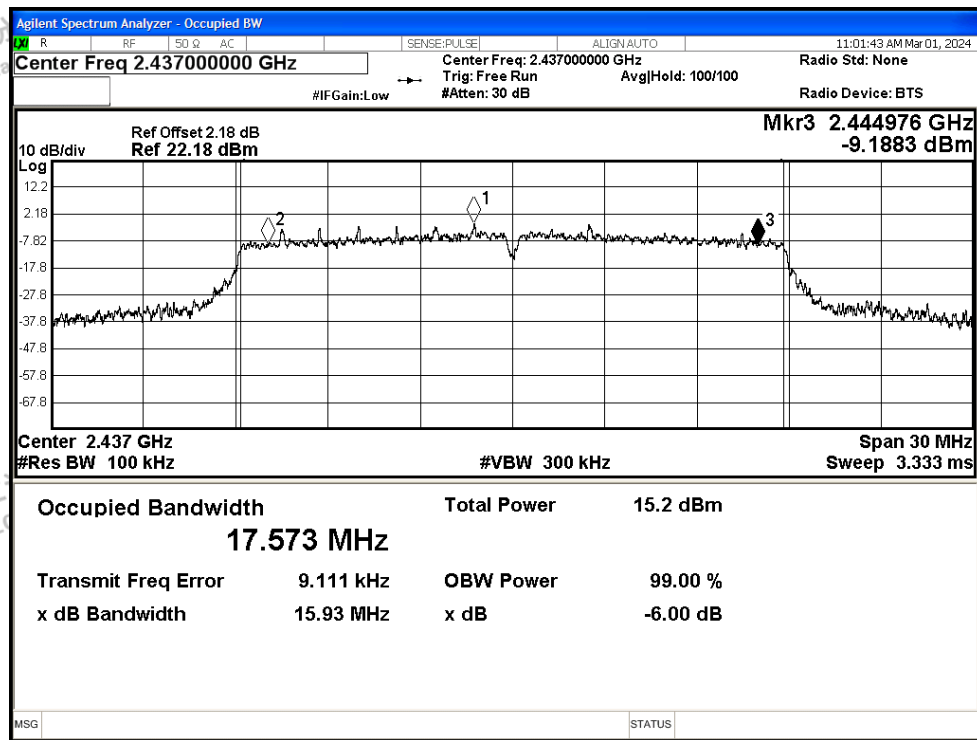
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-6dB Bandwidth NVNT n20 2412MHz Ant0



-6dB Bandwidth NVNT n20 2437MHz Ant0



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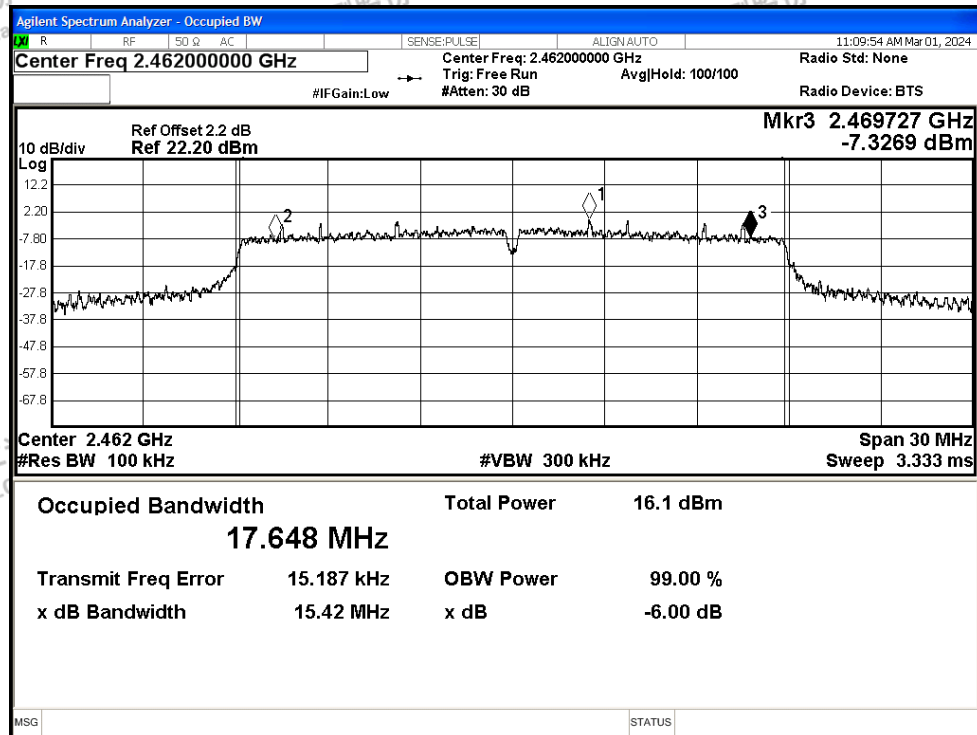
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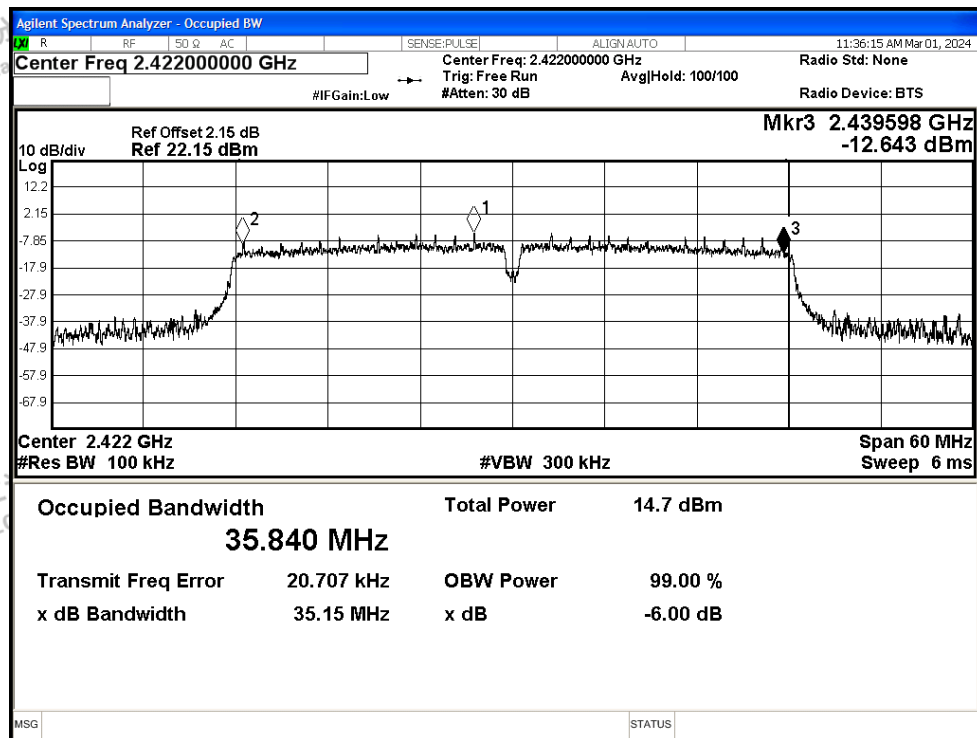
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-6dB Bandwidth NVNT n20 2462MHz Ant0



-6dB Bandwidth NVNT n40 2422MHz Ant0



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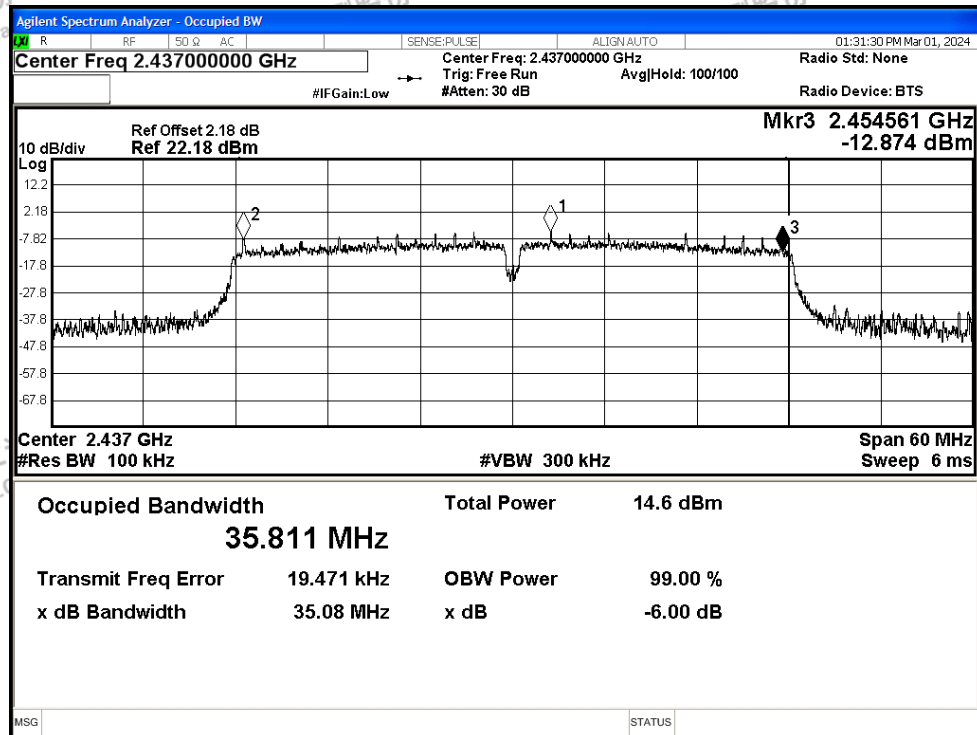
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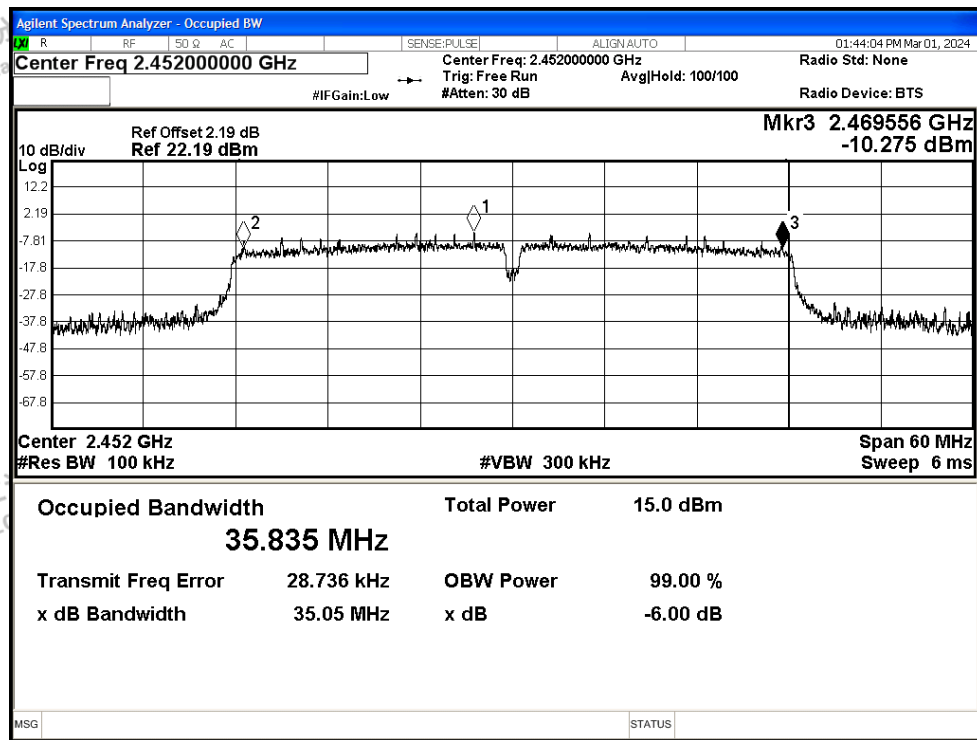
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-6dB Bandwidth NVNT n40 2437MHz Ant0



-6dB Bandwidth NVNT n40 2452MHz Ant0



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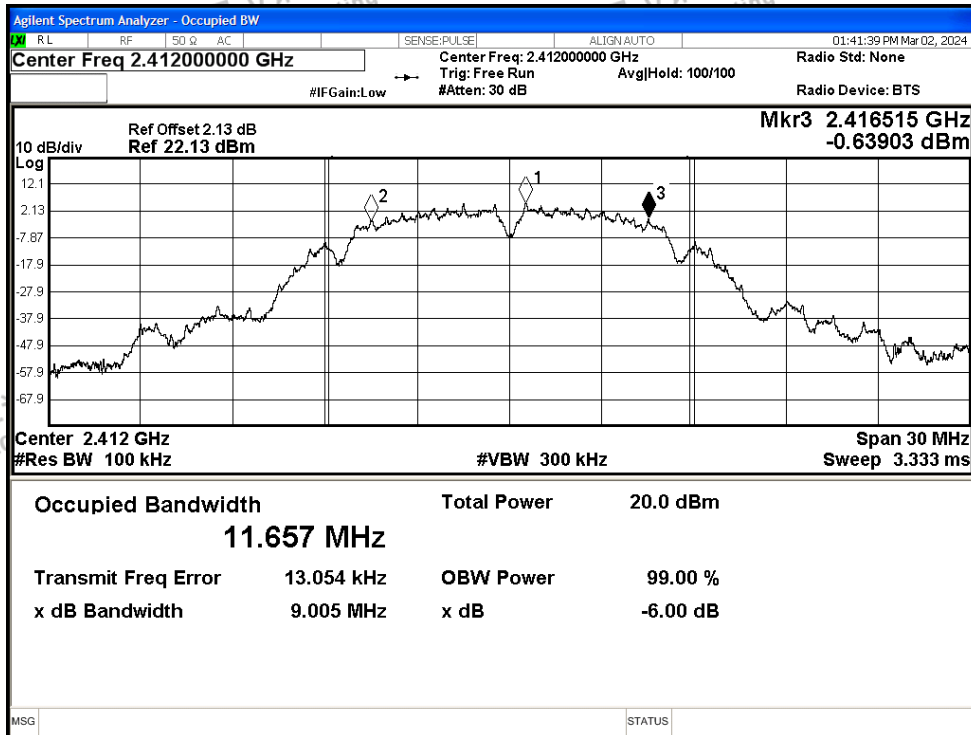
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NVNT	b	2412	Ant1	9.005	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.578	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.538	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.909	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.303	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.286	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.203	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.032	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.847	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.603	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.147	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.508	≥ 0.5	Pass



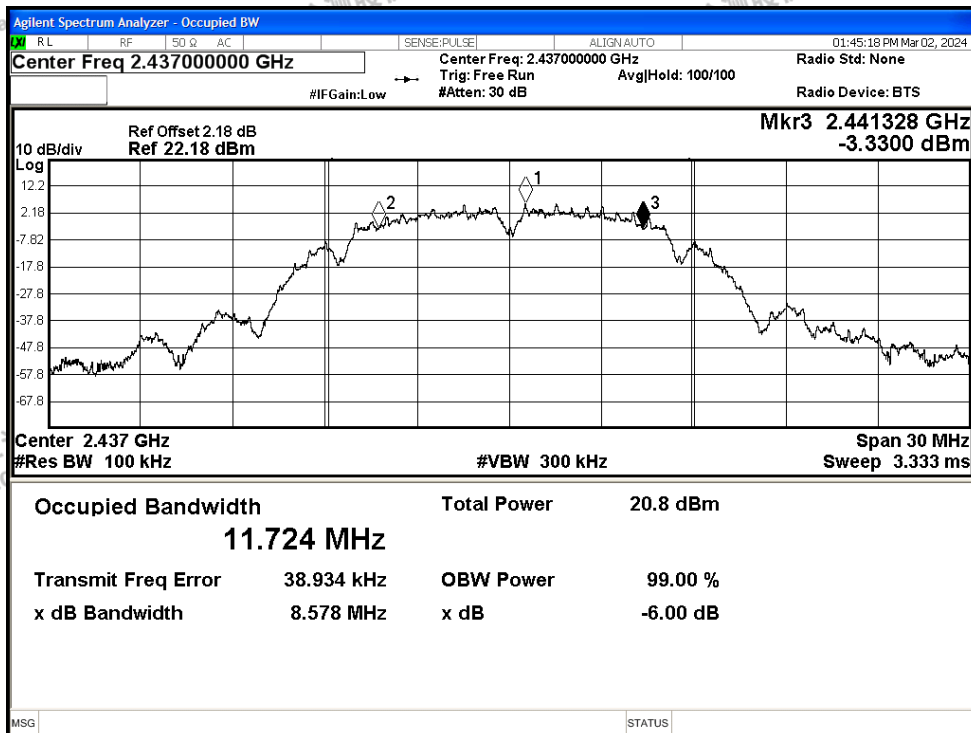


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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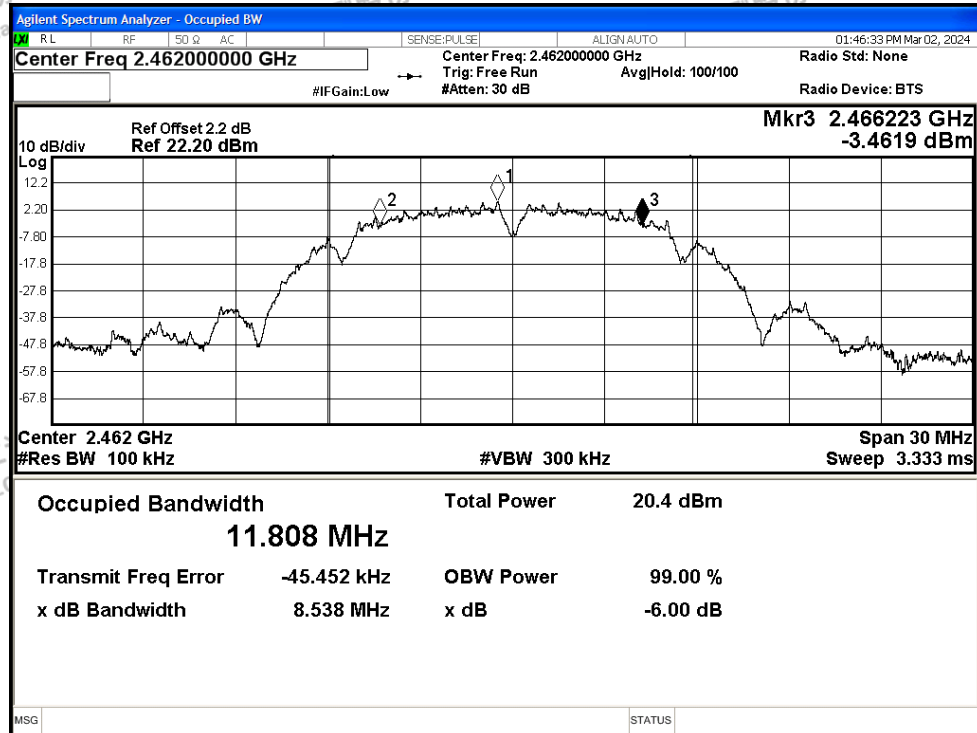
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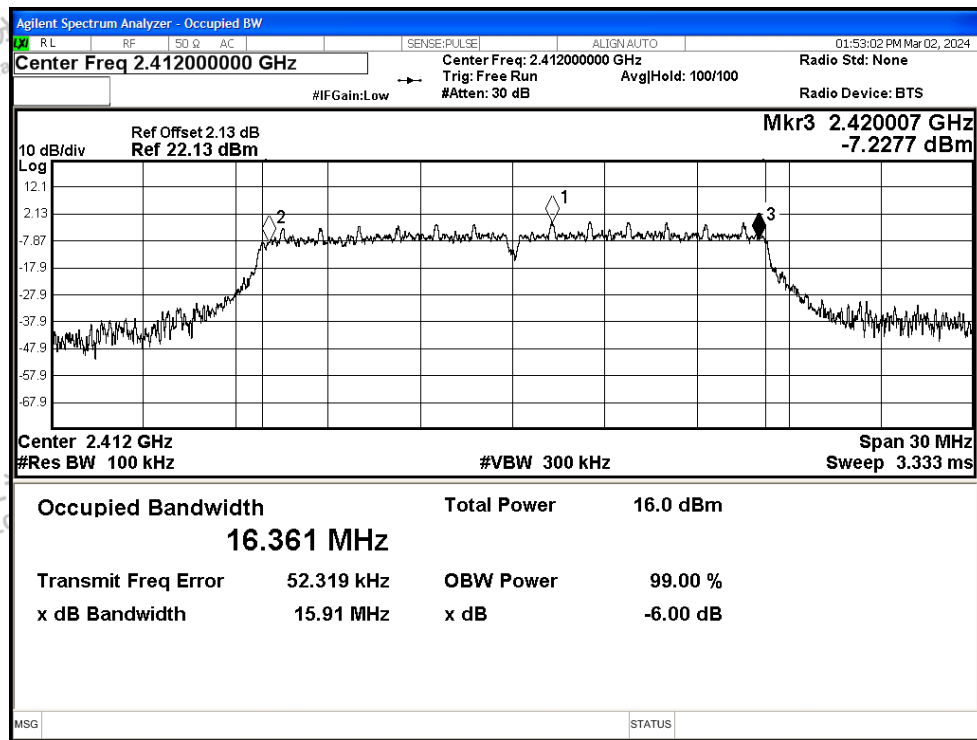
Scan code to check authenticity



-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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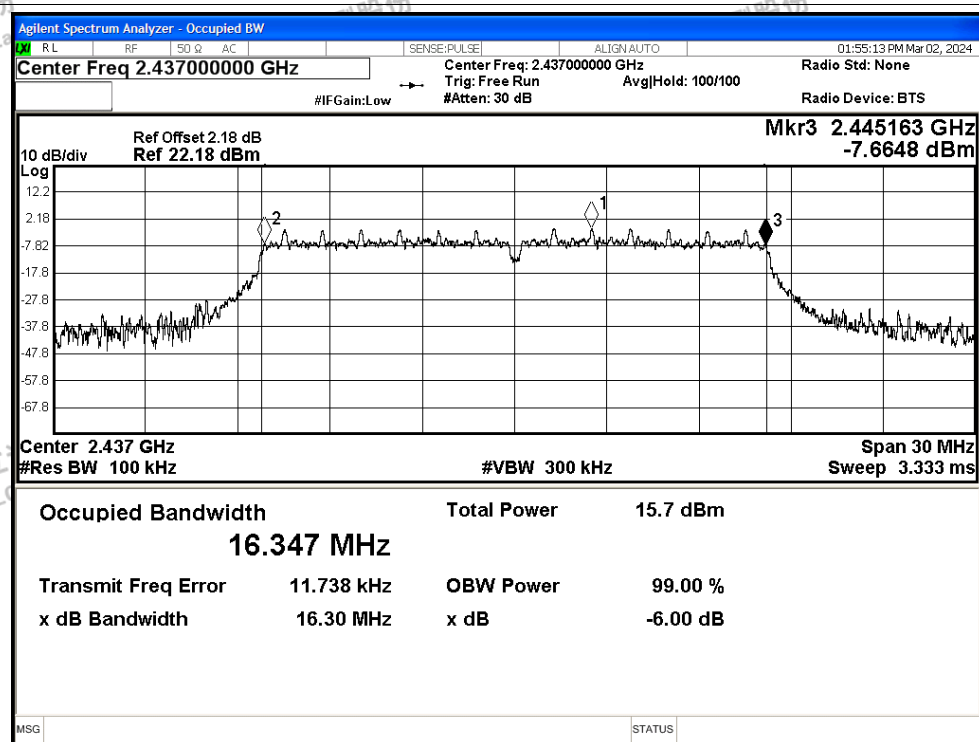
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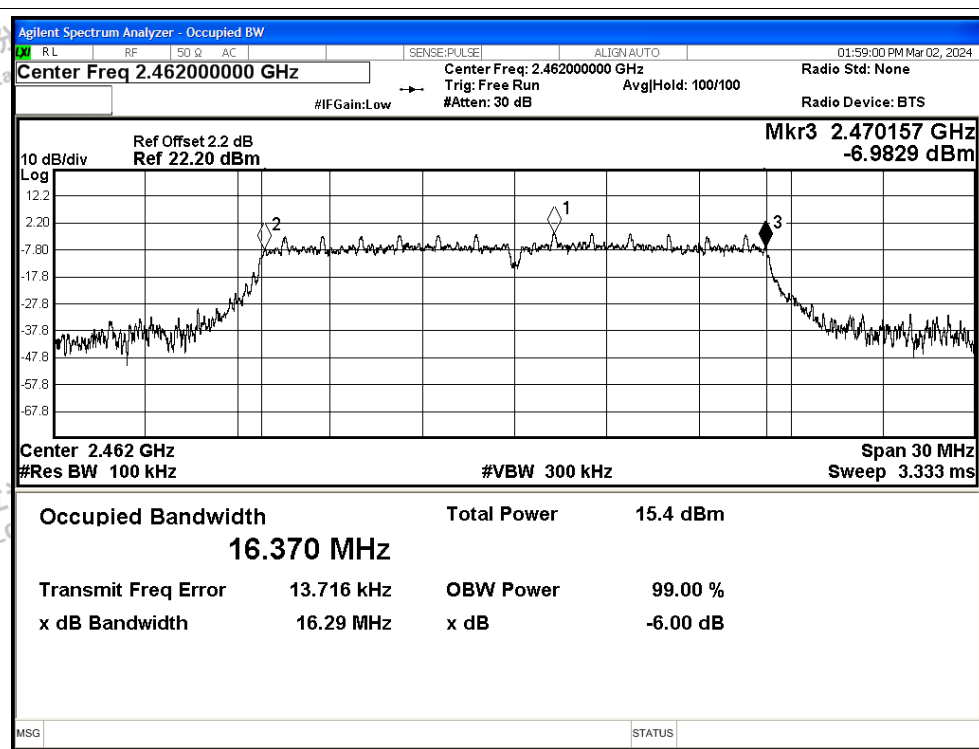
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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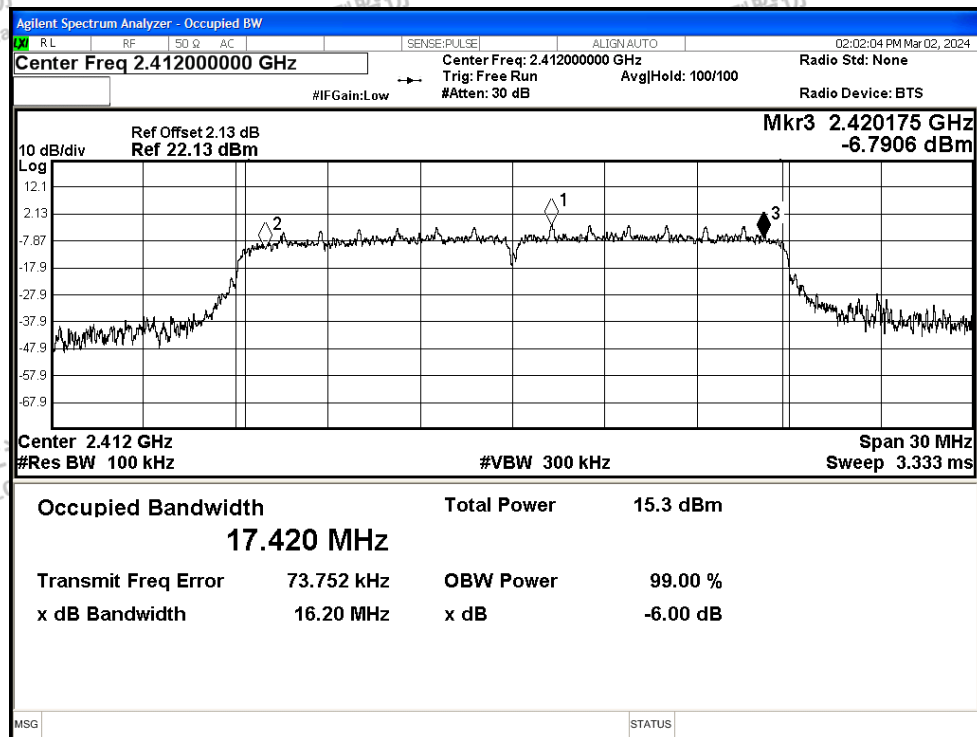
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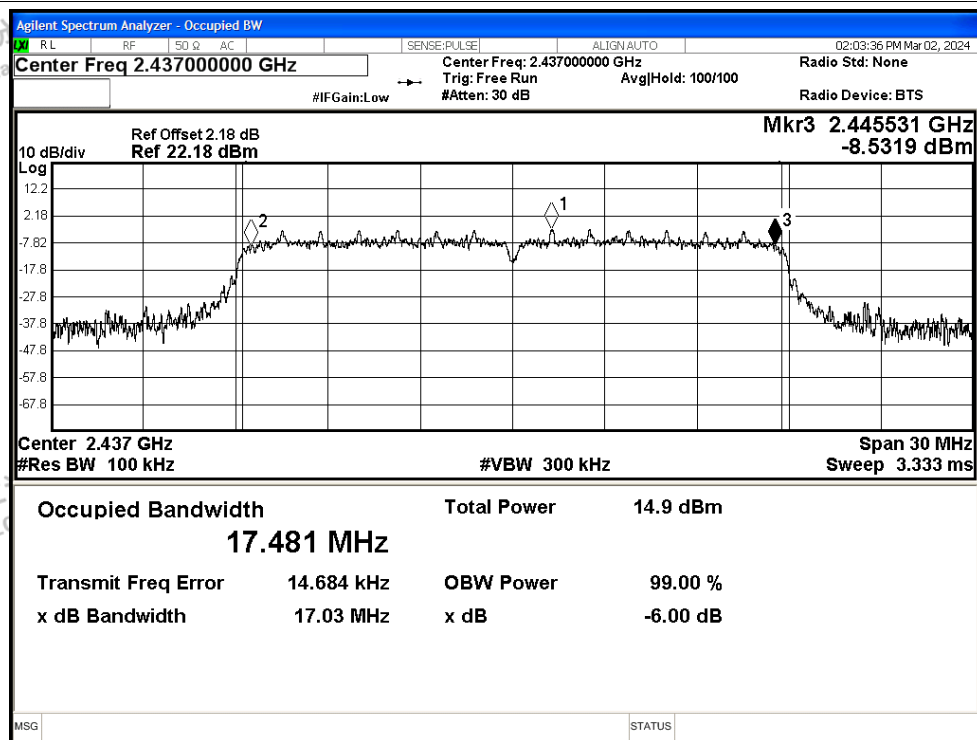
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

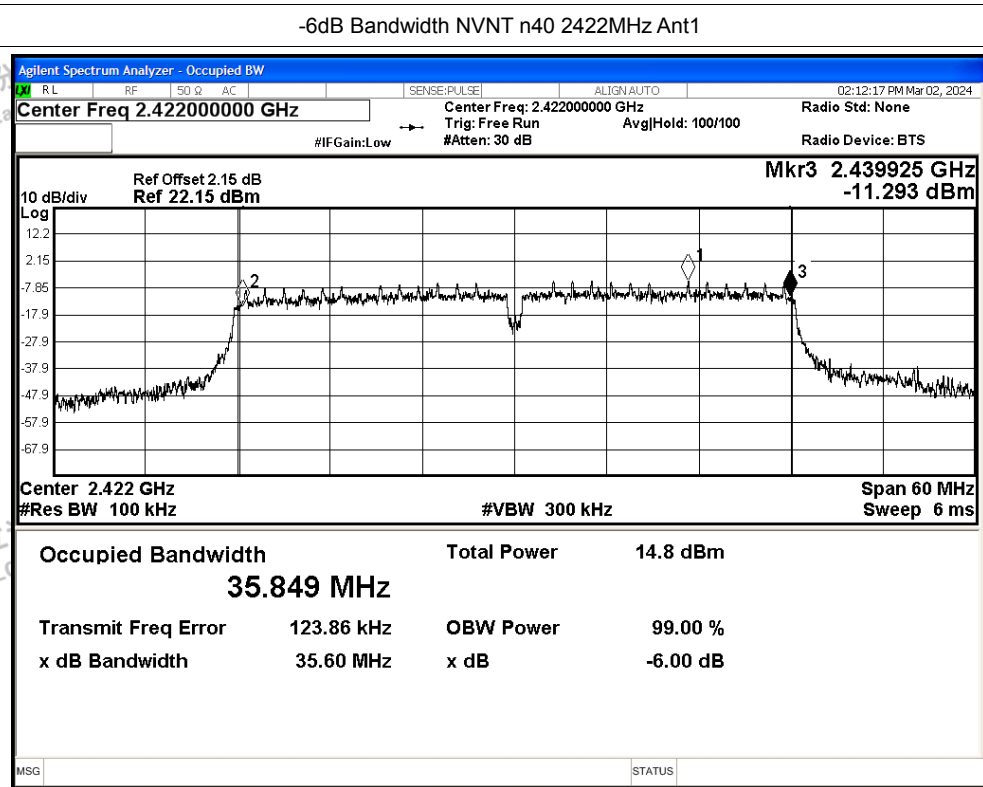
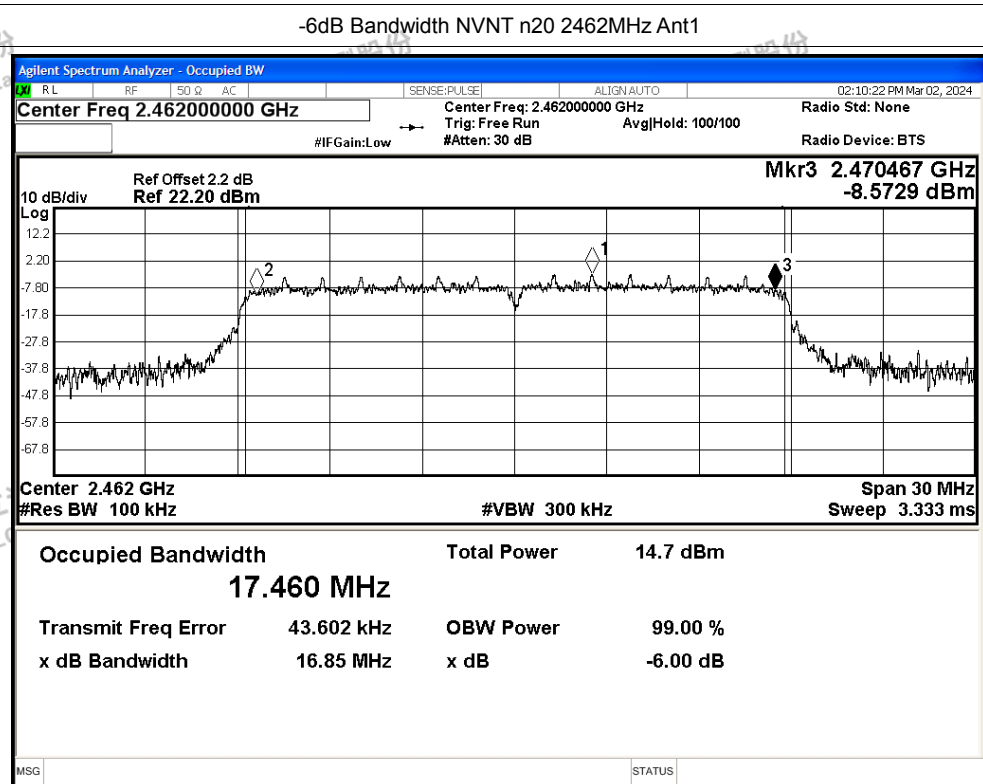


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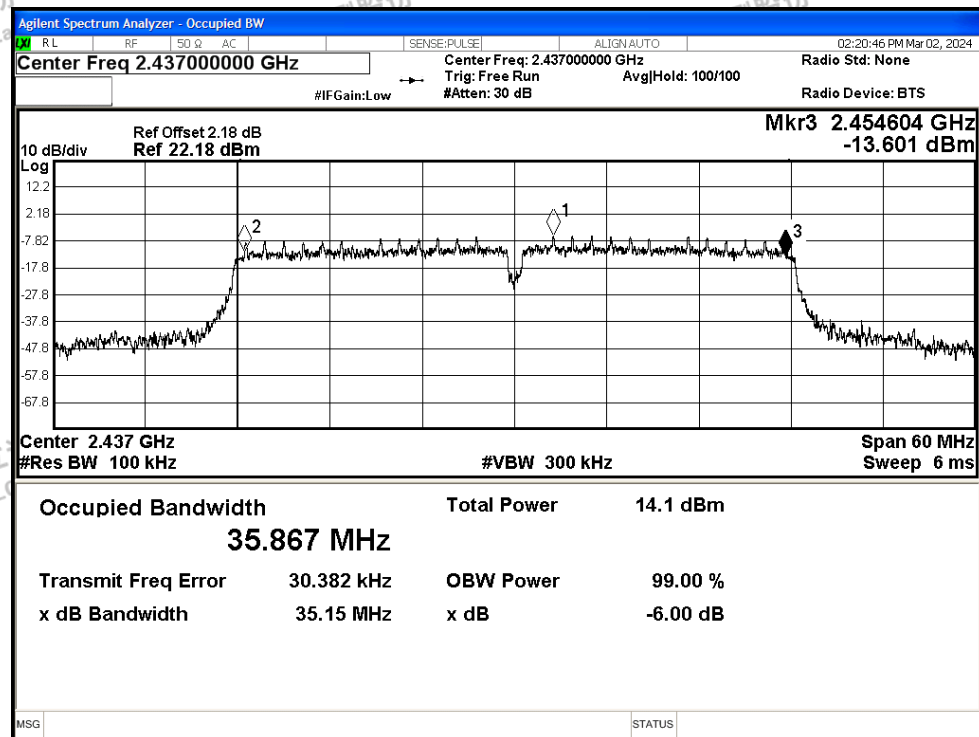
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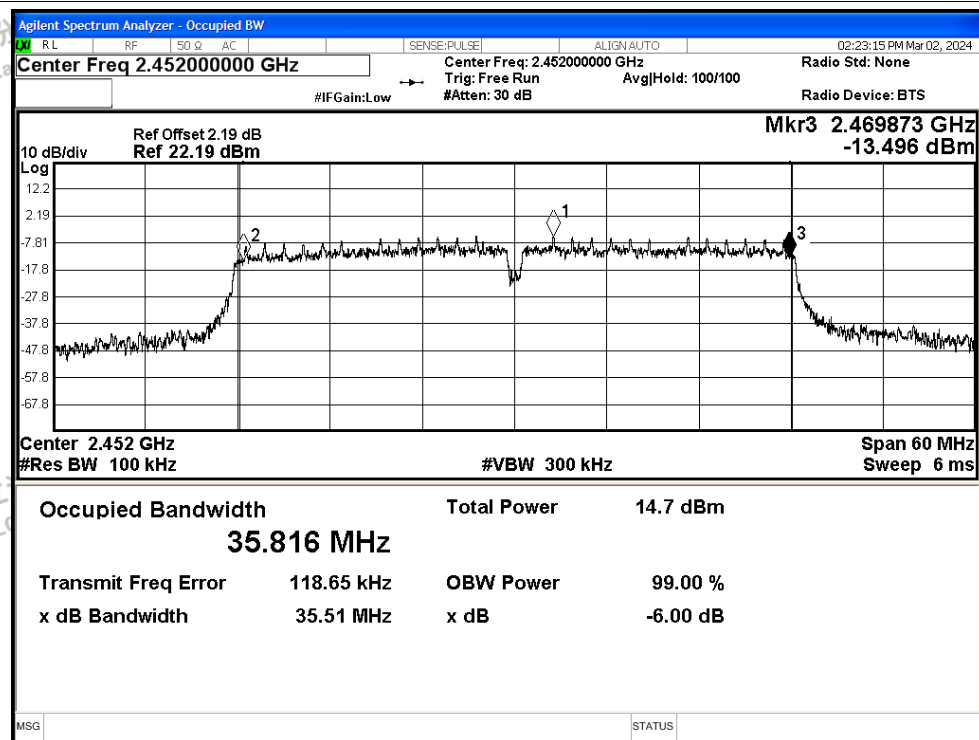
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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C.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant0	2412	15.34	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2462	14.49	≤30.00	PASS
11G	Ant0	2412	14.68	≤30.00	PASS
		2437	14.65	≤30.00	PASS
		2462	14.25	≤30.00	PASS
11N20SISO	Ant0	2412	13.29	≤30.00	PASS
		2437	13.76	≤30.00	PASS
		2462	13.12	≤30.00	PASS
11N40SISO	Ant0	2422	12.98	≤30.00	PASS
		2437	13.02	≤30.00	PASS
		2452	13.17	≤30.00	PASS

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.14	≤30.00	PASS
		2437	15.85	≤30.00	PASS
		2462	15.39	≤30.00	PASS
11G	Ant1	2412	14.28	≤30.00	PASS
		2437	14.11	≤30.00	PASS
		2462	13.73	≤30.00	PASS
11N20SISO	Ant1	2412	13.55	≤30.00	PASS
		2437	13.15	≤30.00	PASS
		2462	12.92	≤30.00	PASS
11N40SISO	Ant1	2422	12.78	≤30.00	PASS
		2437	12.04	≤30.00	PASS
		2452	12.7	≤30.00	PASS





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	13.29	13.55	16.43	30	Pass
NVNT	n20	2437	13.76	13.15	16.48	30	Pass
NVNT	n20	2462	13.12	12.92	16.03	30	Pass
NVNT	n40	2422	12.98	12.78	15.89	30	Pass
NVNT	n40	2437	13.02	12.04	15.57	30	Pass
NVNT	n40	2452	13.17	12.7	15.95	30	Pass

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C.3 Maximum Power Spectral Density Level

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant0	2412	-4.7	≤8.00	PASS
		2437	3.77	≤8.00	PASS
		2462	0.93	≤8.00	PASS
11G	Ant0	2412	-12.97	≤8.00	PASS
		2437	-12.72	≤8.00	PASS
		2462	-12.25	≤8.00	PASS
11N20SISO	Ant0	2412	-15.11	≤8.00	PASS
		2437	-13.75	≤8.00	PASS
		2462	-13.63	≤8.00	PASS
11N40SISO	Ant0	2422	-17.95	≤8.00	PASS
		2437	-17.51	≤8.00	PASS
		2452	-22.03	≤8.00	PASS

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-9.24	≤8.00	PASS
		2437	-7.86	≤8.00	PASS
		2462	-9.36	≤8.00	PASS
11G	Ant1	2412	-15.58	≤8.00	PASS
		2437	-16.36	≤8.00	PASS
		2462	-16.74	≤8.00	PASS
11N20SISO	Ant1	2412	-17.39	≤8.00	PASS
		2437	-17.94	≤8.00	PASS
		2462	-18.02	≤8.00	PASS
11N40SISO	Ant1	2422	-19.73	≤8.00	PASS
		2437	-20.91	≤8.00	PASS
		2452	-20	≤8.00	PASS



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MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-15.11	-17.39	-13.09	8	Pass
NVNT	n20	2437	-13.75	-17.94	-12.35	8	Pass
NVNT	n20	2462	-13.63	-18.02	-12.28	8	Pass
NVNT	n40	2422	-17.95	-19.73	-15.74	8	Pass
NVNT	n40	2437	-17.51	-20.91	-15.88	8	Pass
NVNT	n40	2452	-22.03	-20	-17.89	8	Pass



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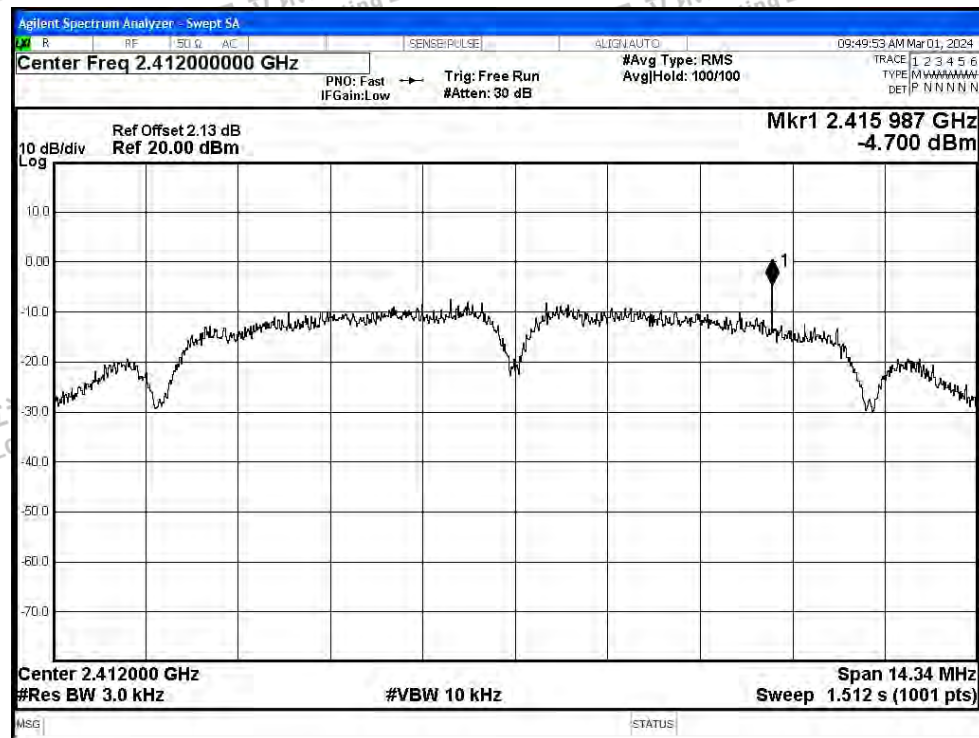
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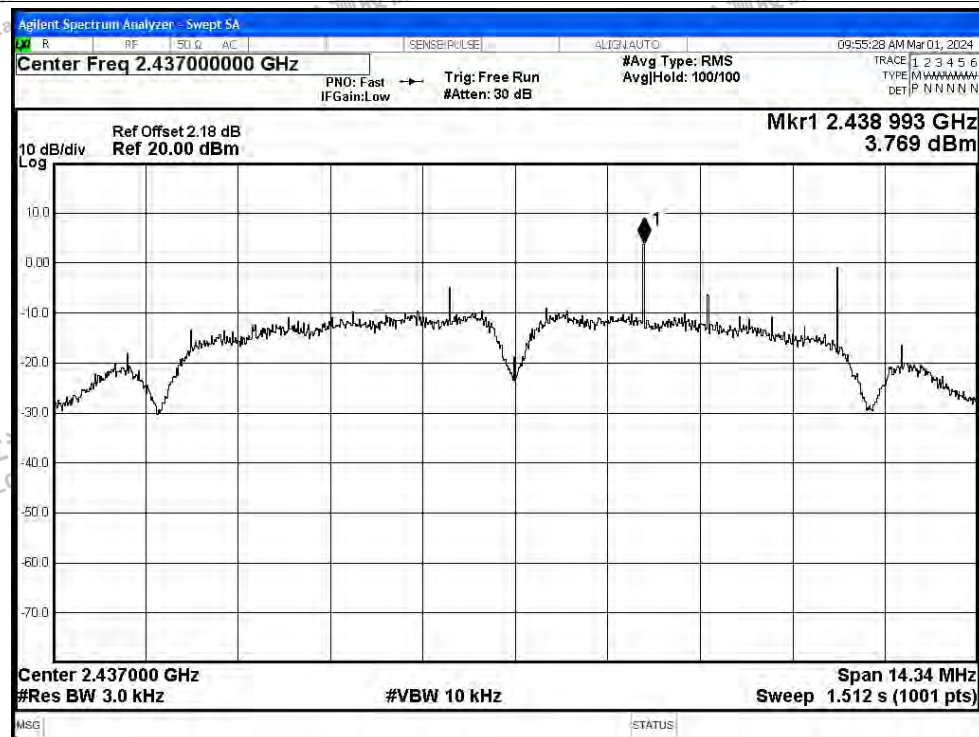


Test Graphs

PSD NVNT b 2412MHz Ant0



PSD NVNT b 2437MHz Ant0



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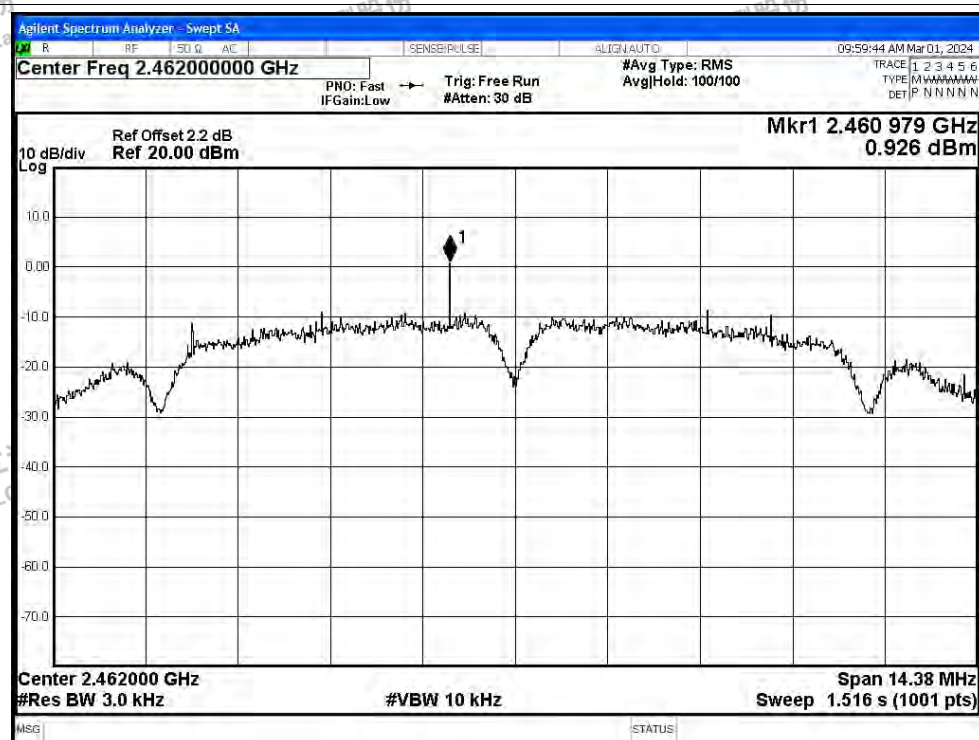
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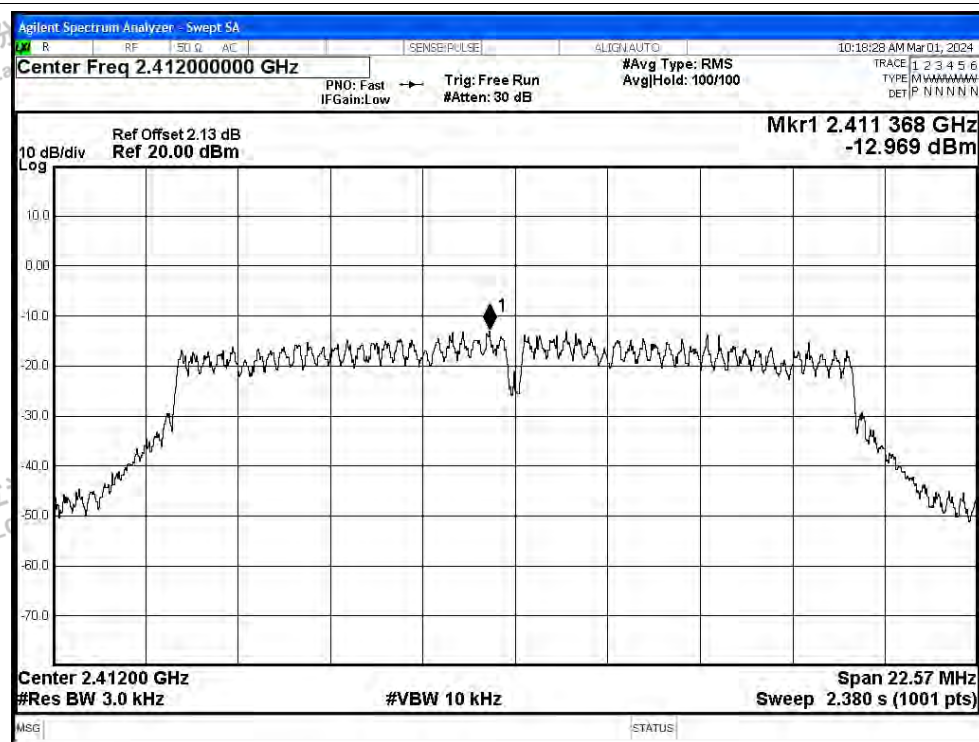
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PSD NVNT b 2462MHz Ant0



PSD NVNT g 2412MHz Ant0



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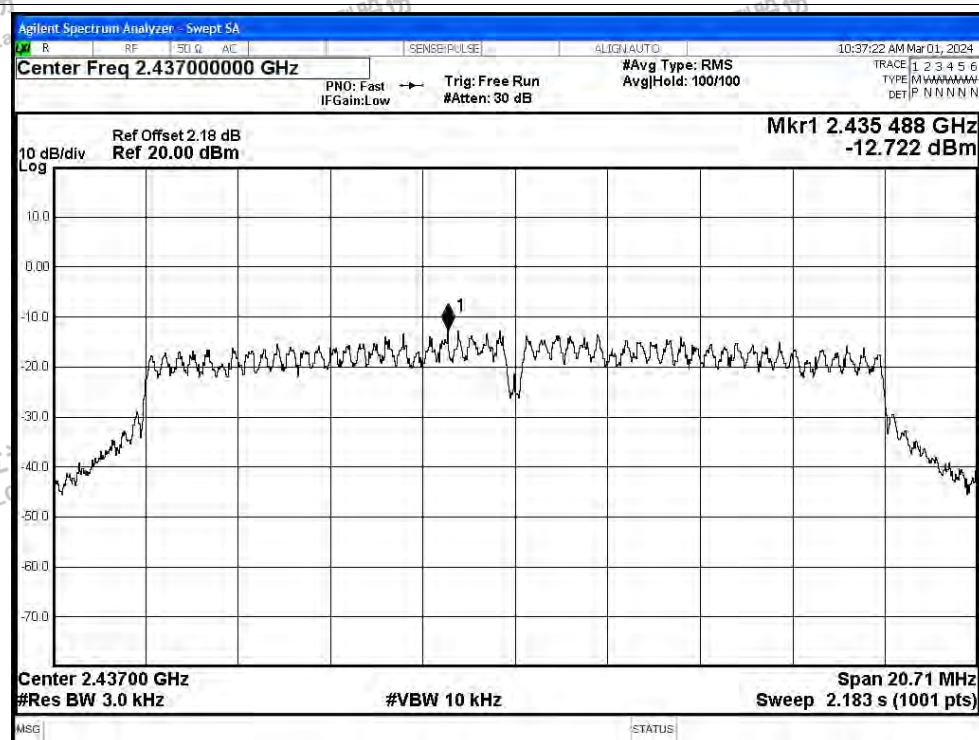
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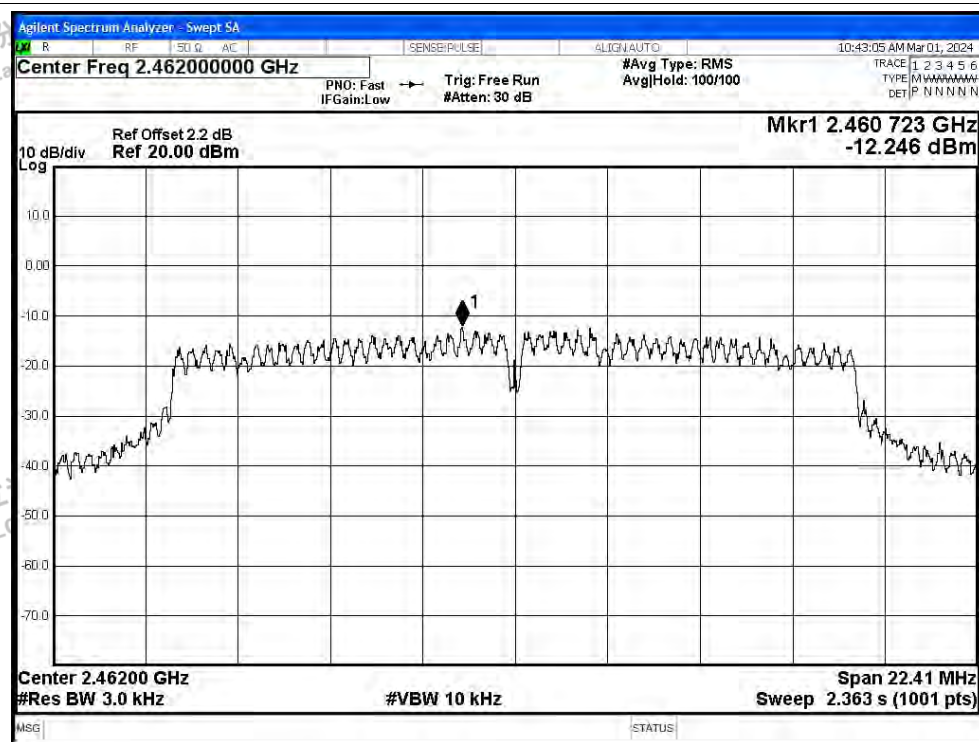
Scan code to check authenticity



PSD NVNT g 2437MHz Ant0



PSD NVNT g 2462MHz Ant0

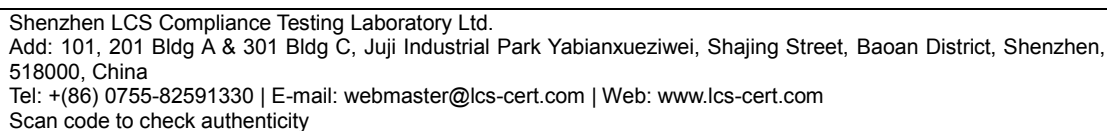
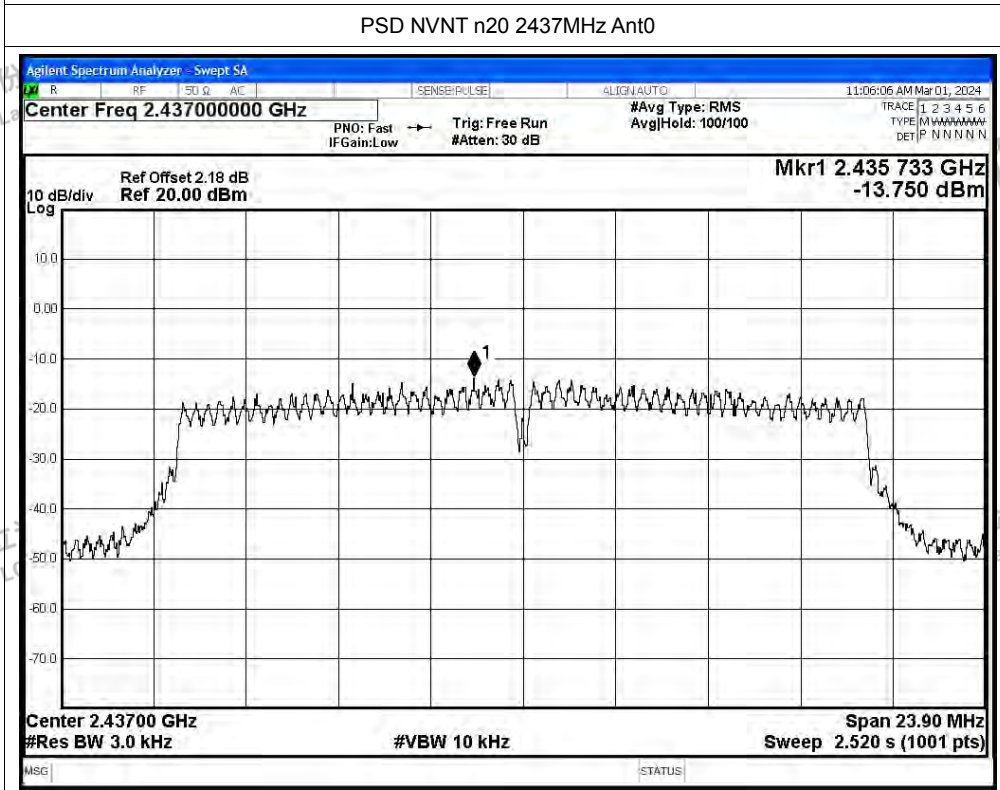


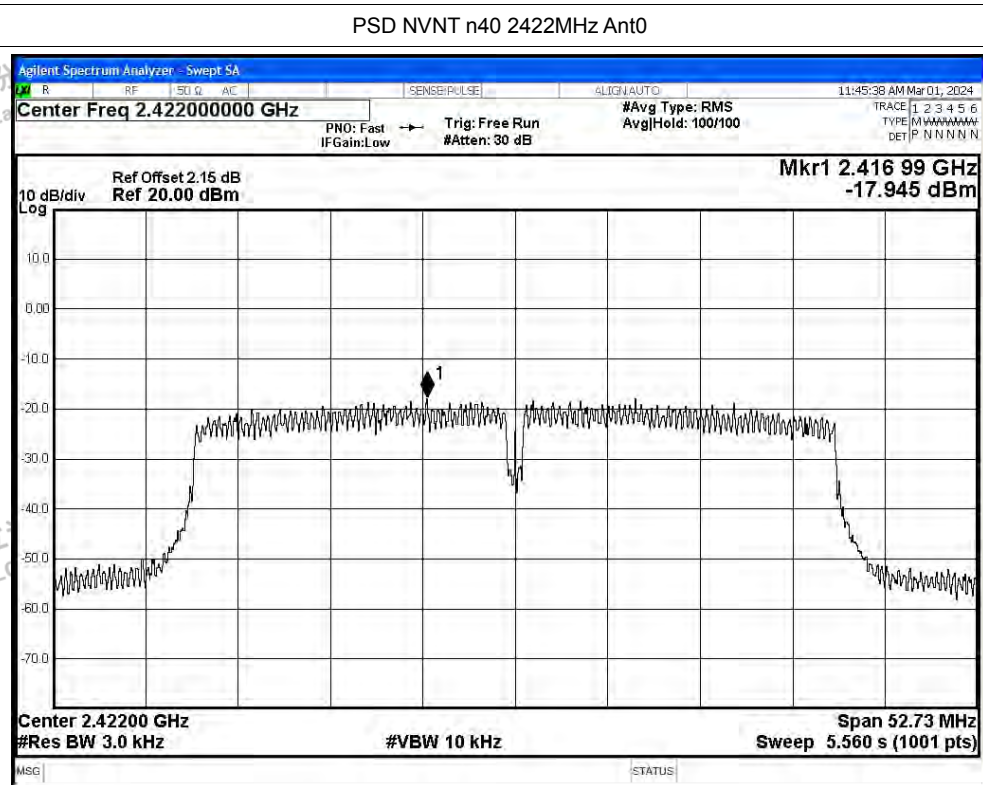
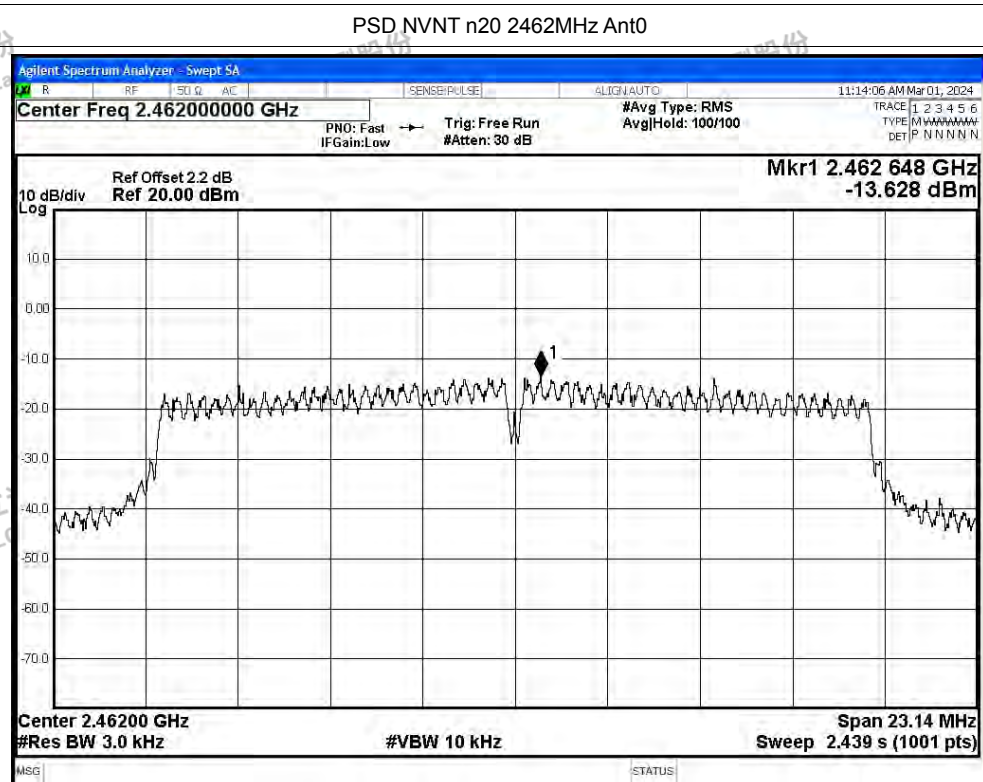
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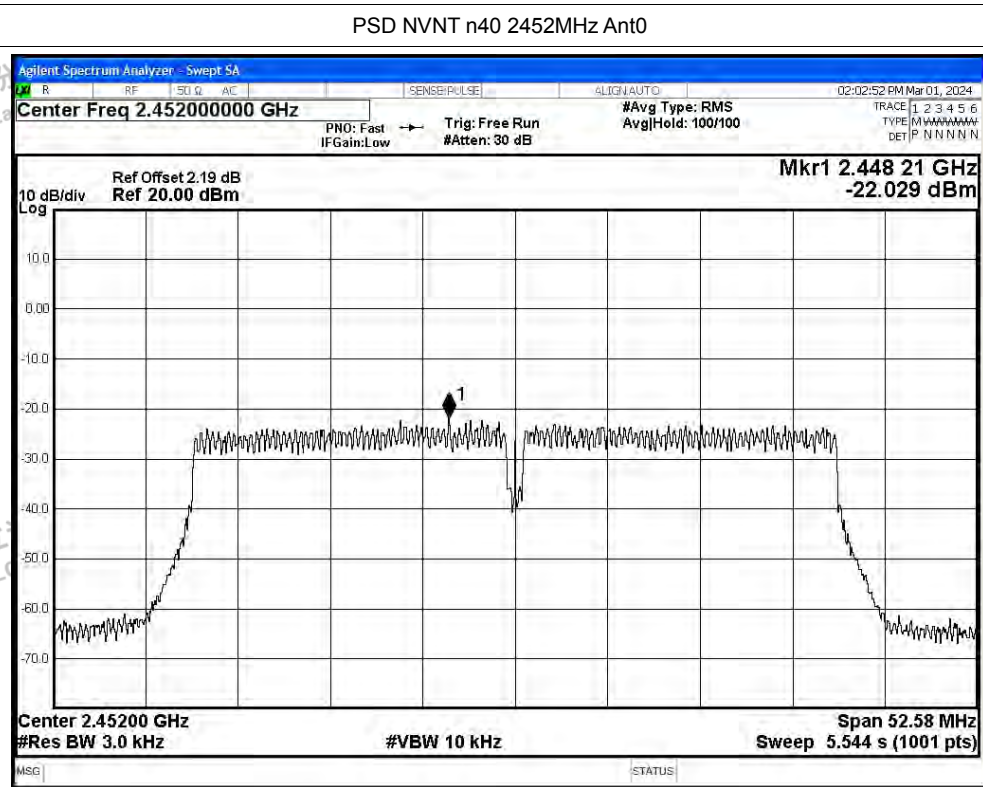
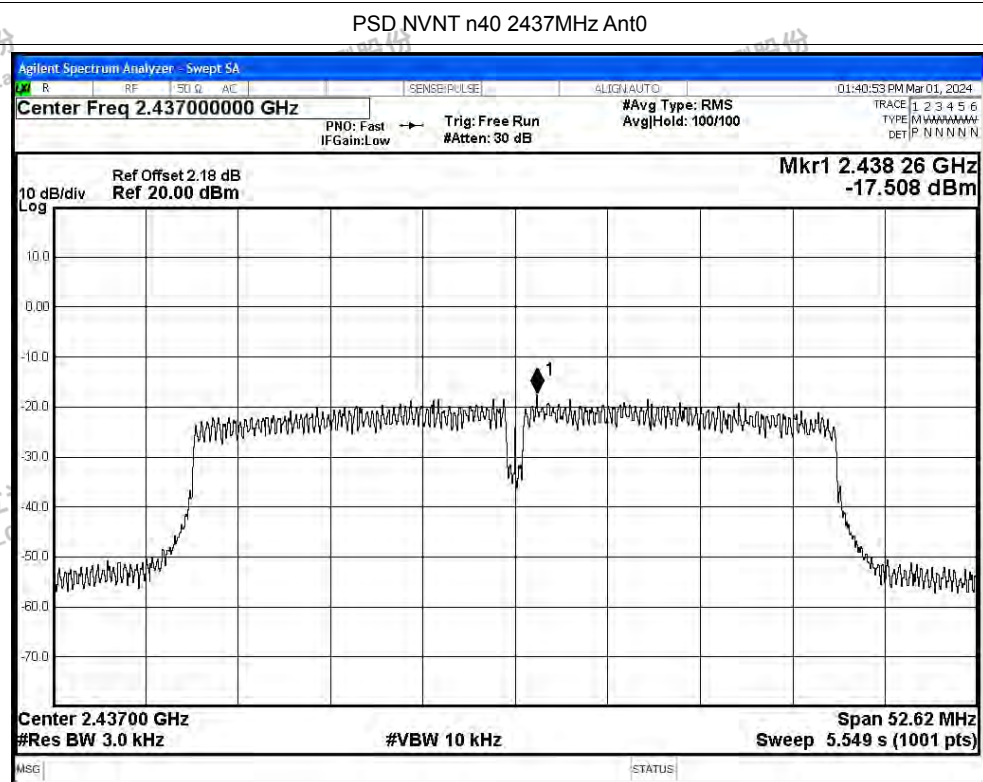
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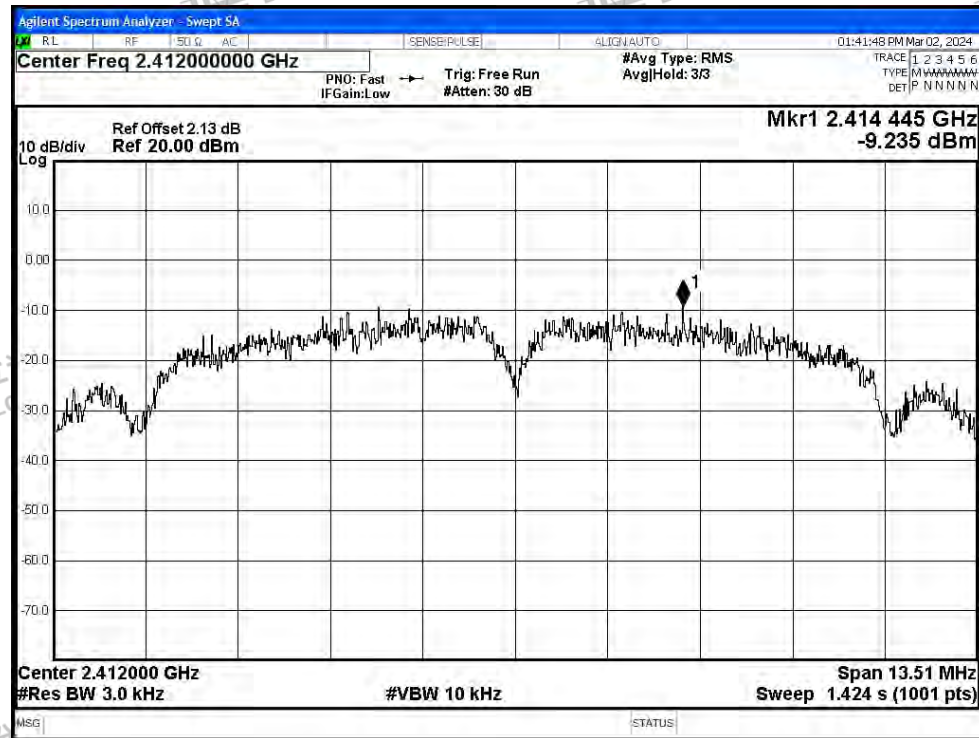
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Scan code to check authenticity

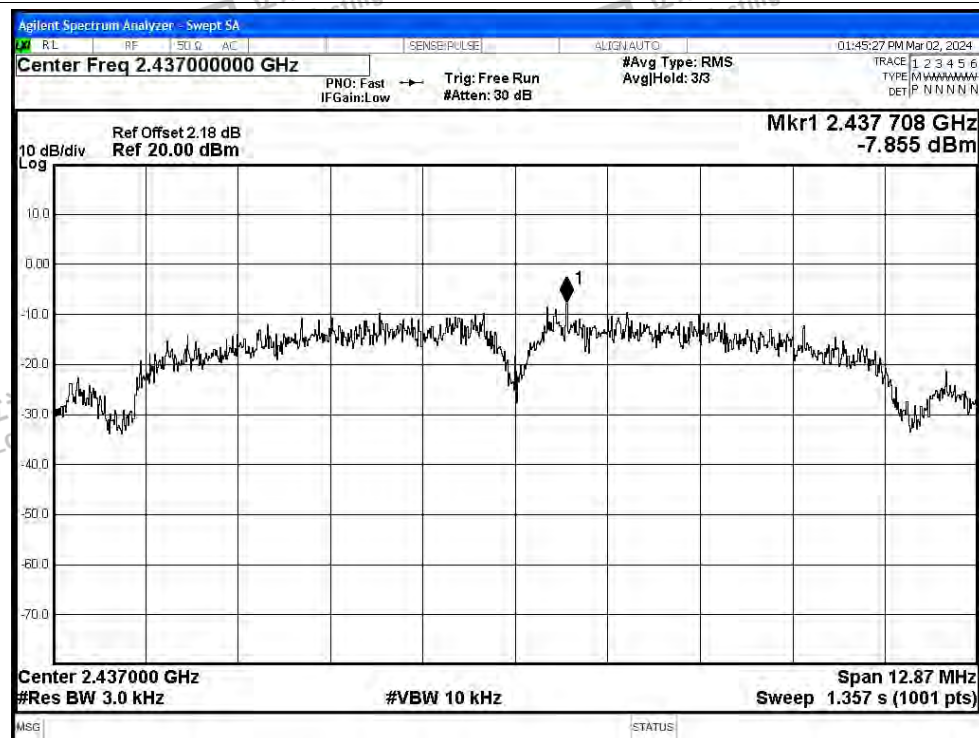


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

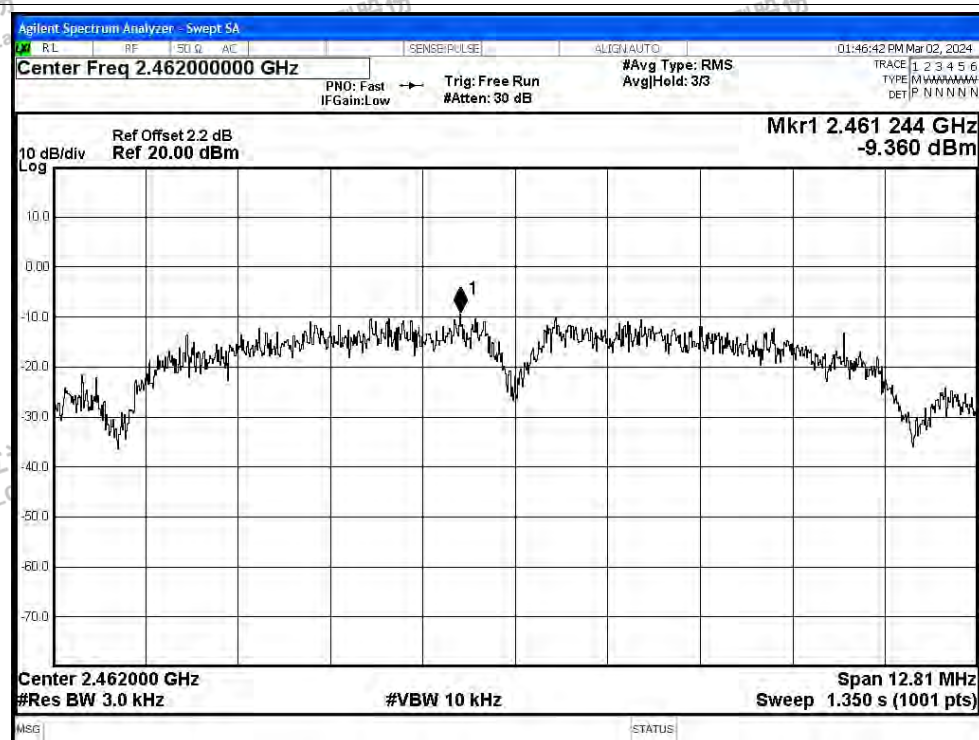
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

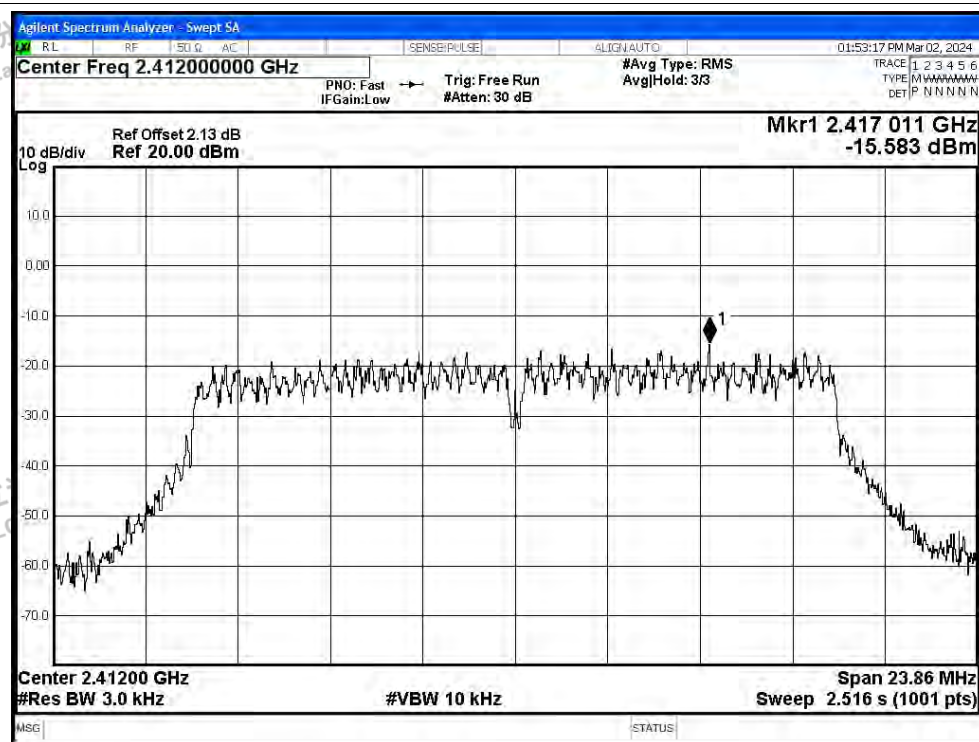
Scan code to check authenticity



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

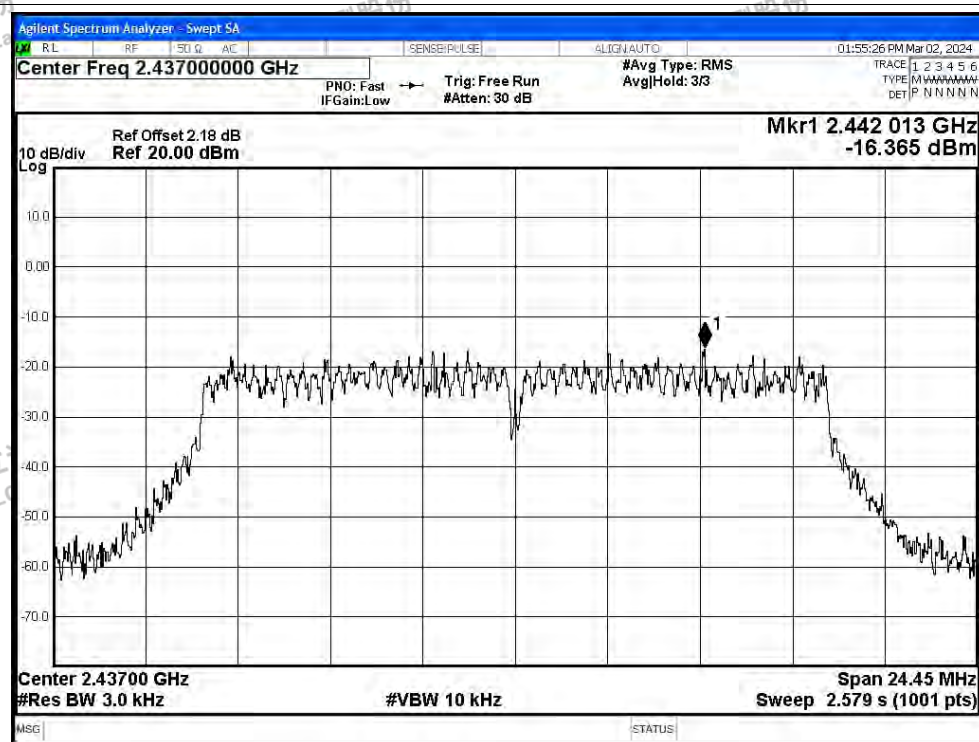
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

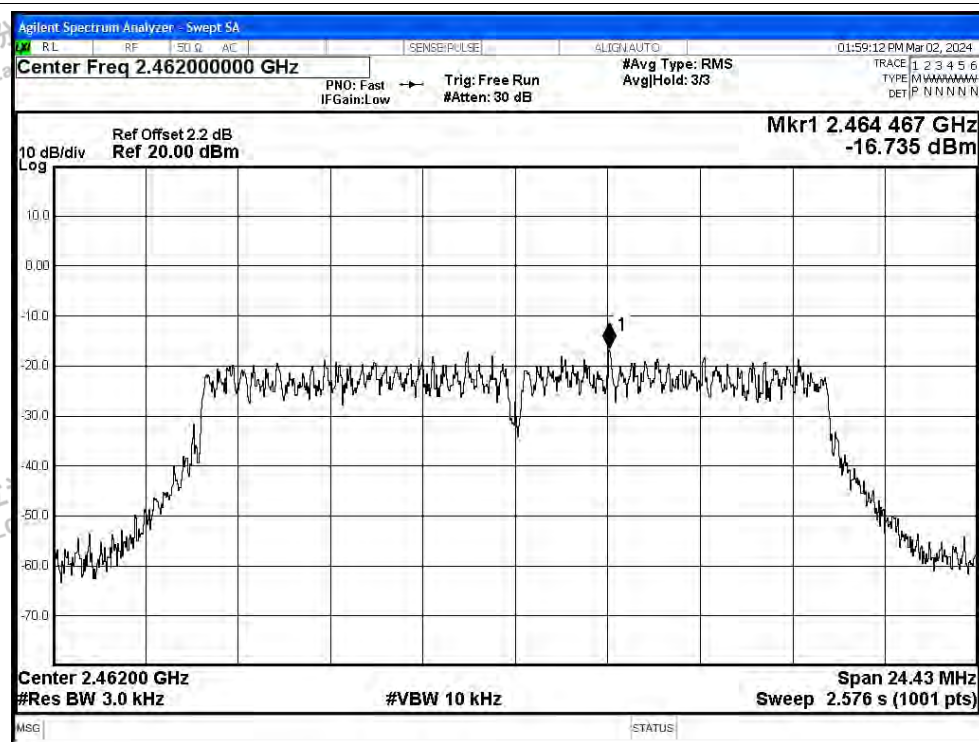
Scan code to check authenticity



PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

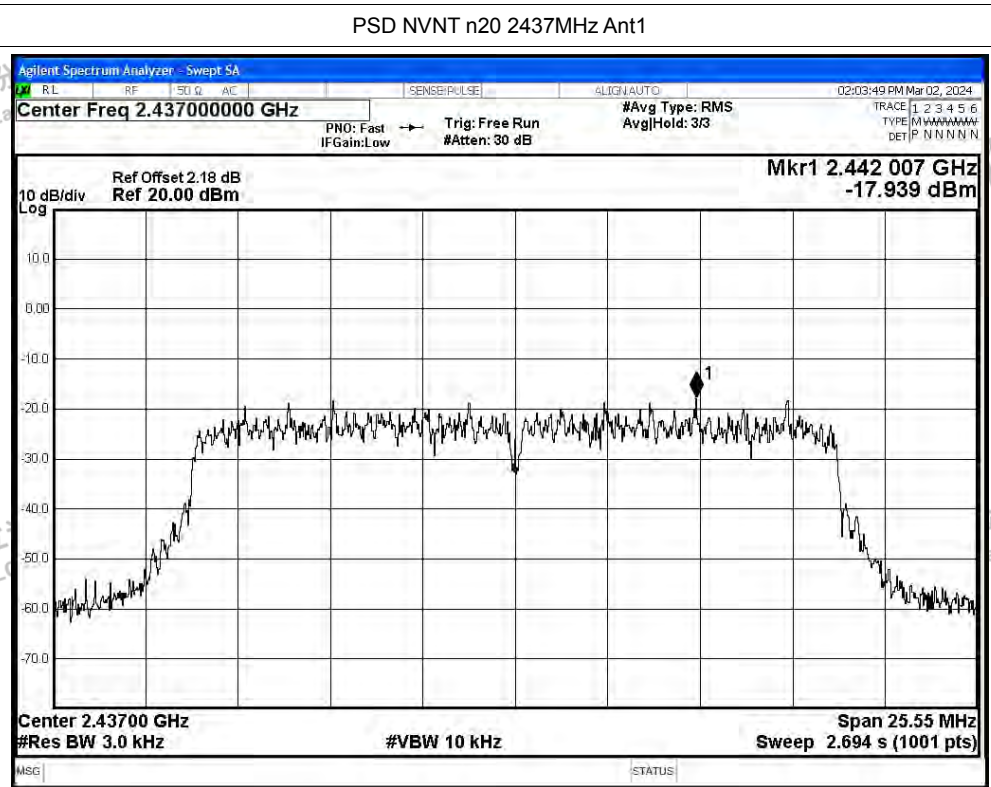
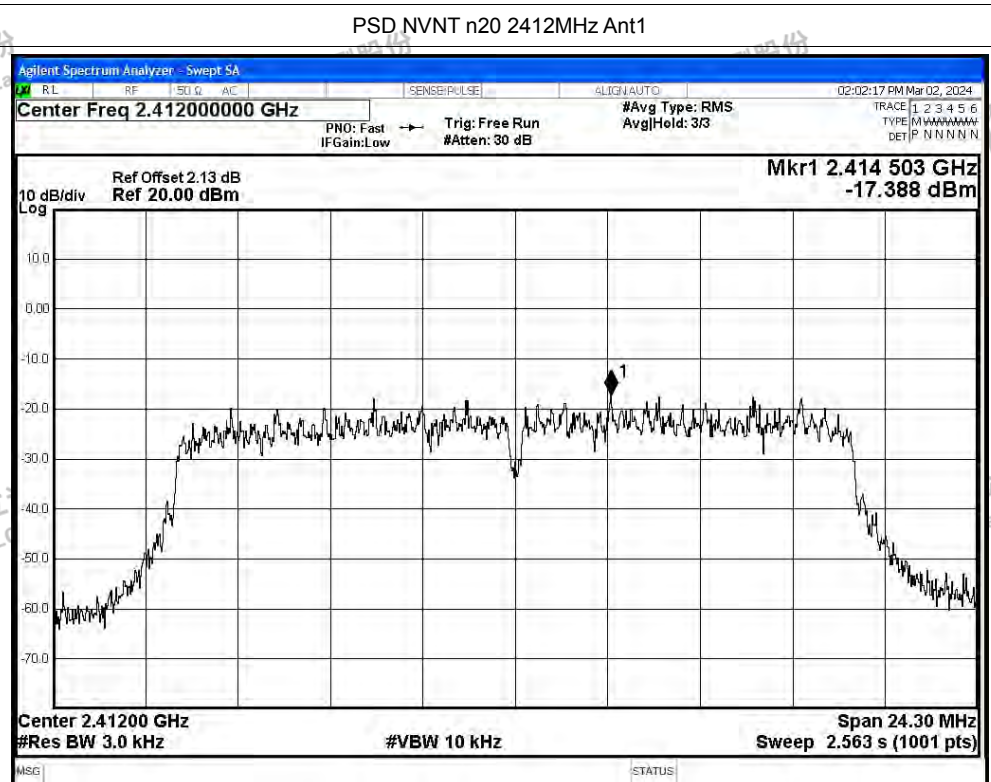


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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

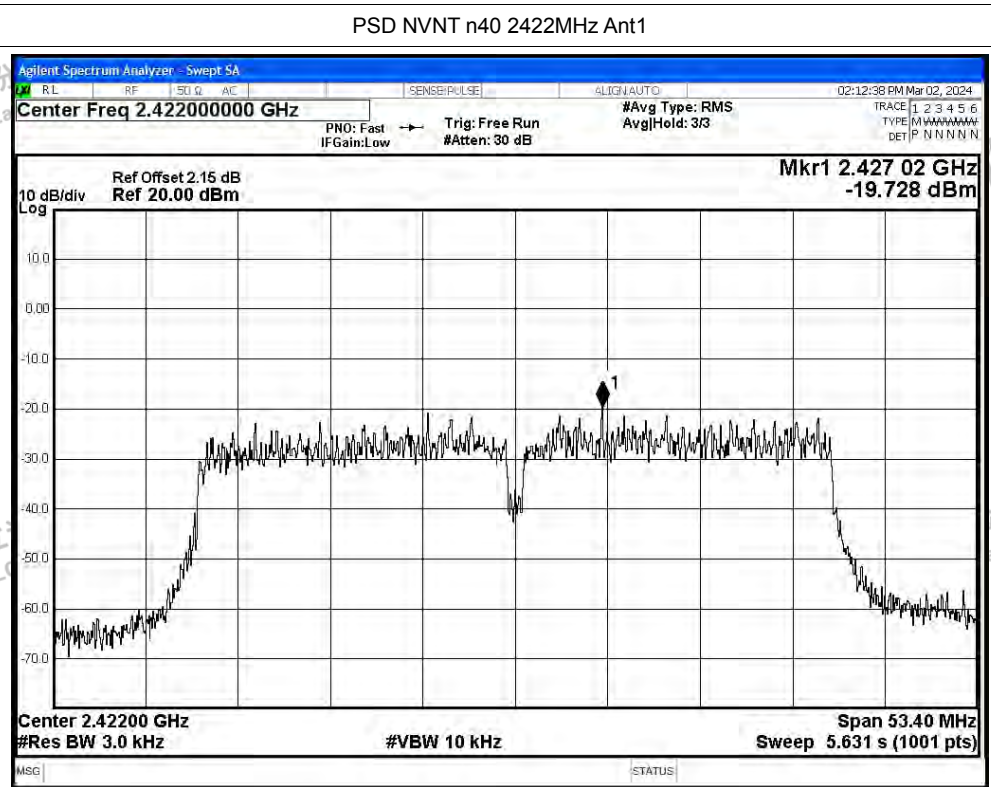
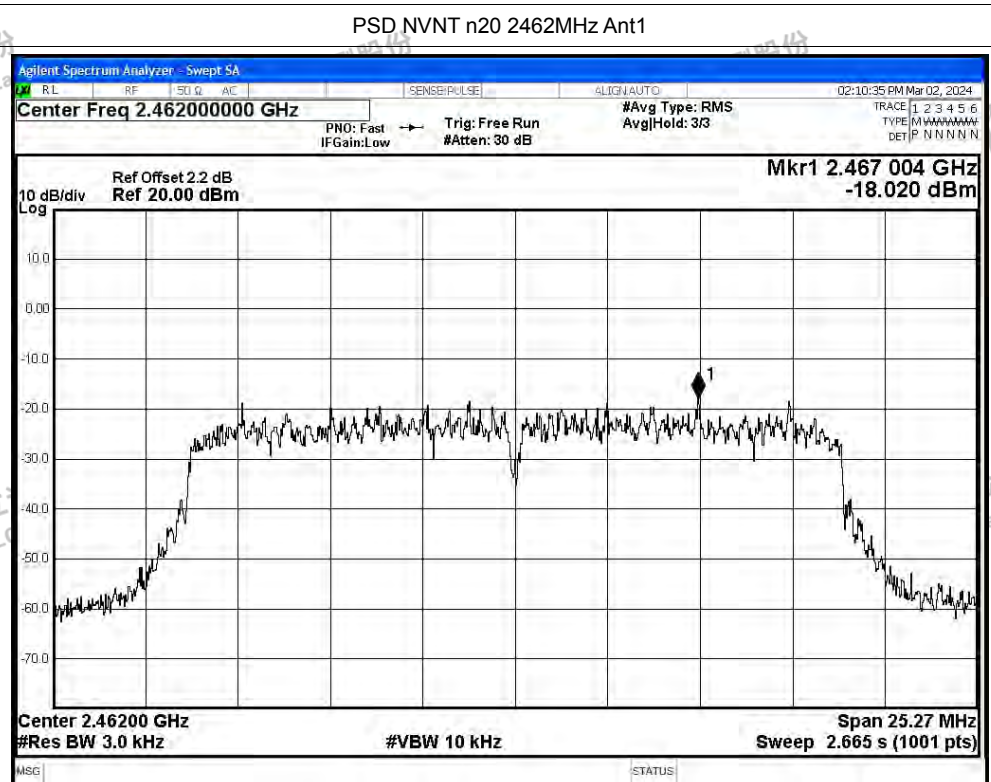


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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

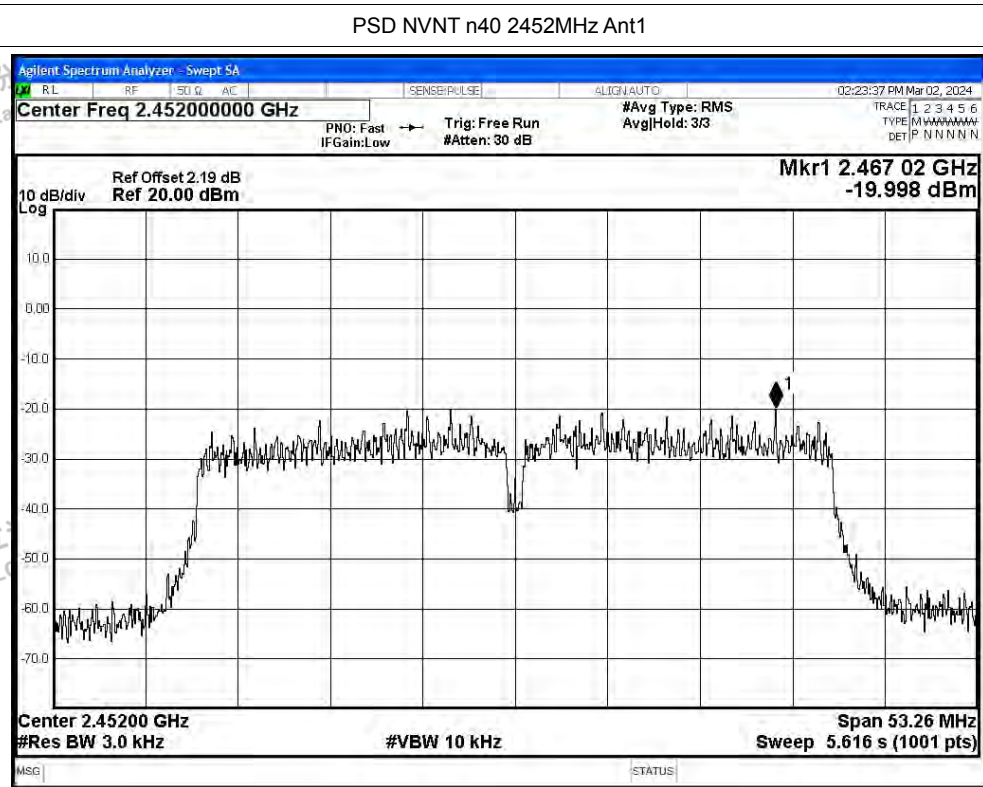
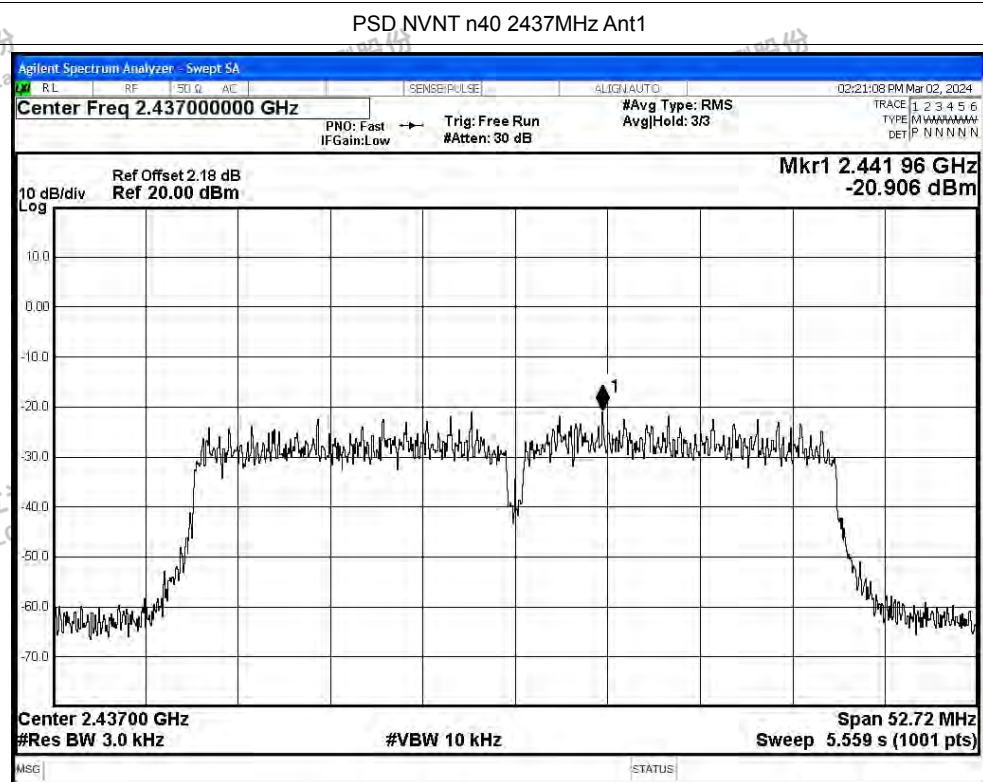


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Scan code to check authenticity



C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-39.05	-20	Pass
NVNT	b	2462	Ant0	-45.5	-20	Pass
NVNT	g	2412	Ant0	-31.89	-20	Pass
NVNT	g	2462	Ant0	-39.96	-20	Pass
NVNT	n20	2412	Ant0	-32.38	-20	Pass
NVNT	n20	2462	Ant0	-36.46	-20	Pass
NVNT	n40	2422	Ant0	-30.96	-20	Pass
NVNT	n40	2452	Ant0	-30.61	-20	Pass



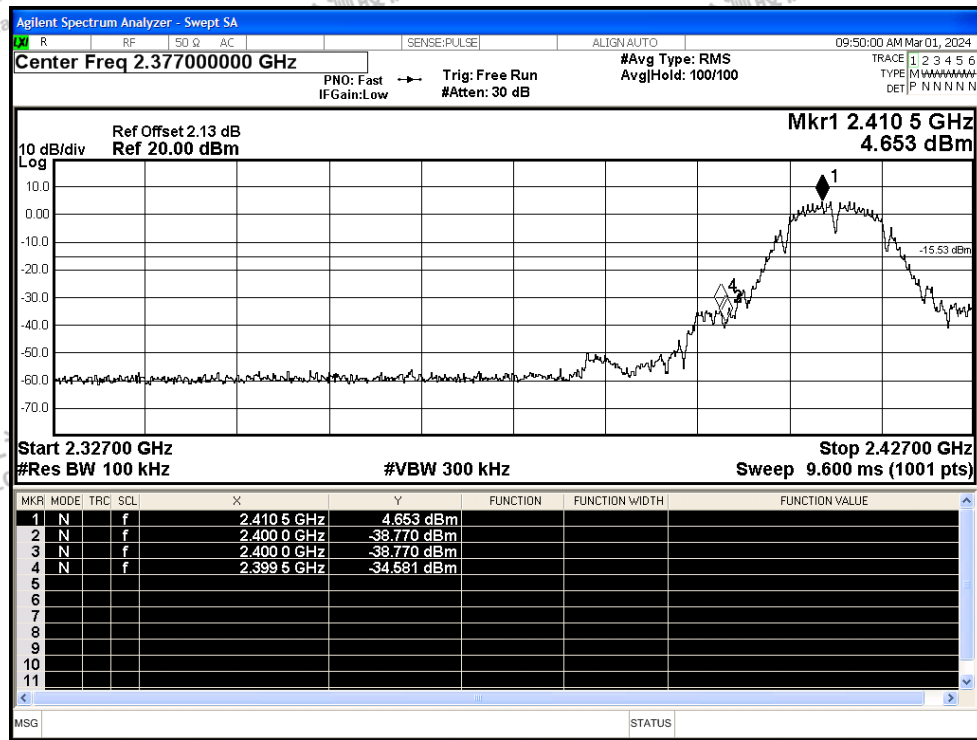


Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref



Band Edge NVNT b 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

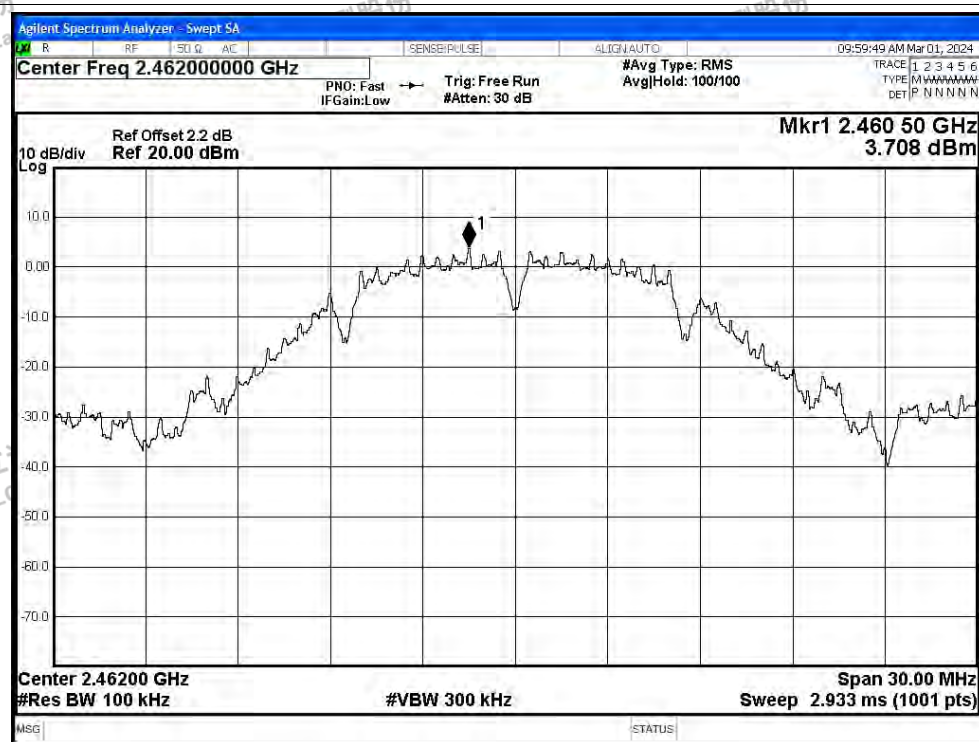
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

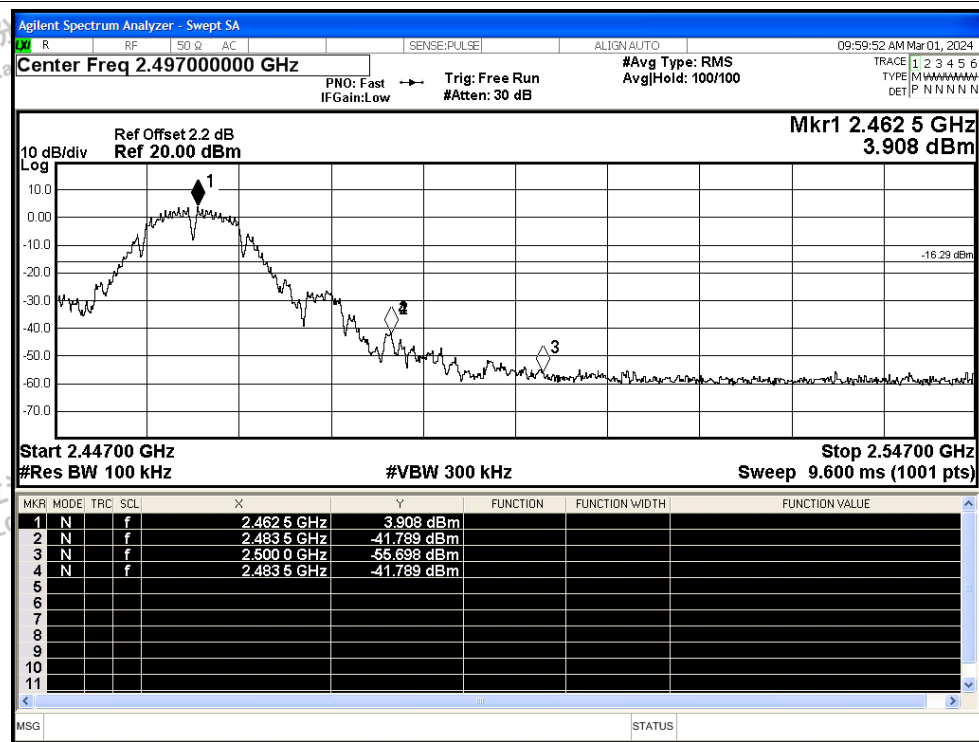
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant0 Ref



Band Edge NVNT b 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

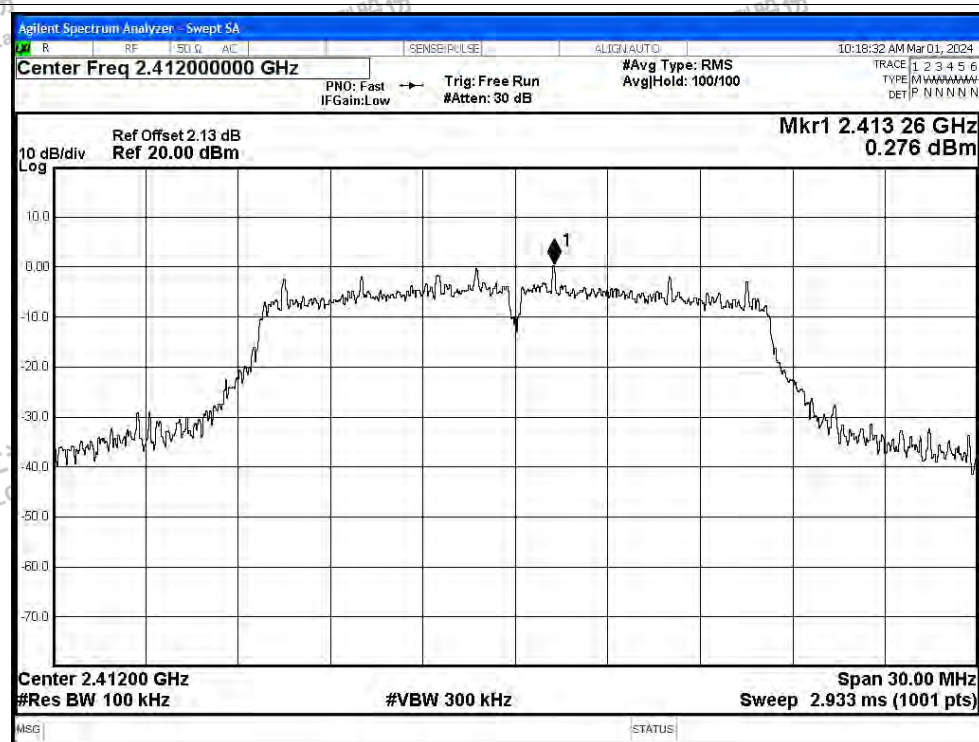
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

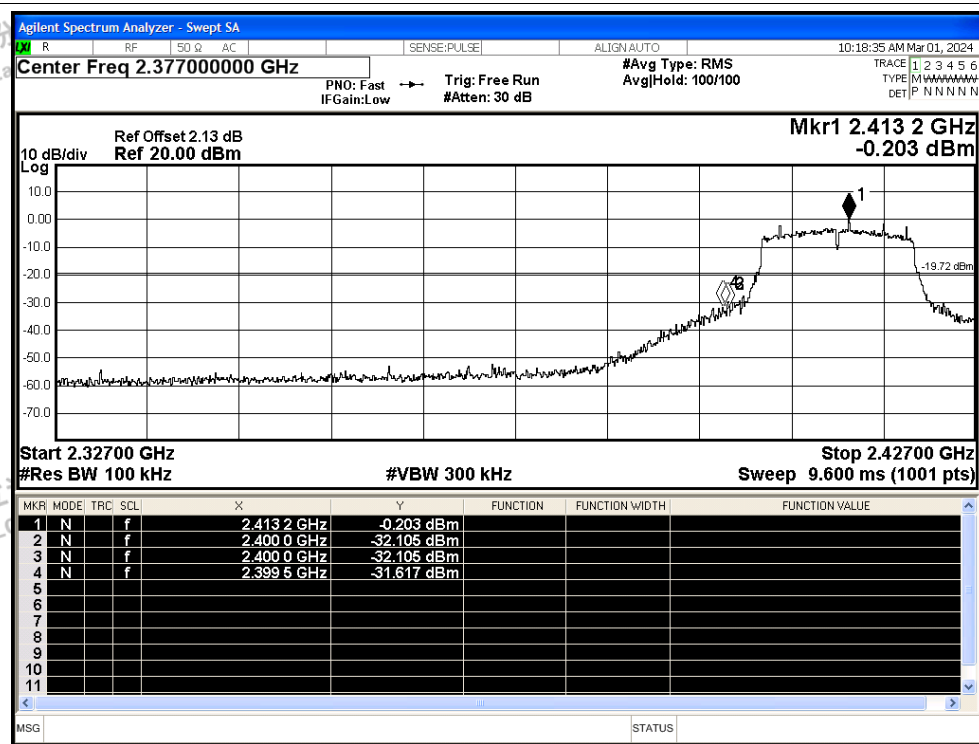
Scan code to check authenticity



Band Edge NVNT g 2412MHz Ant0 Ref



Band Edge NVNT g 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

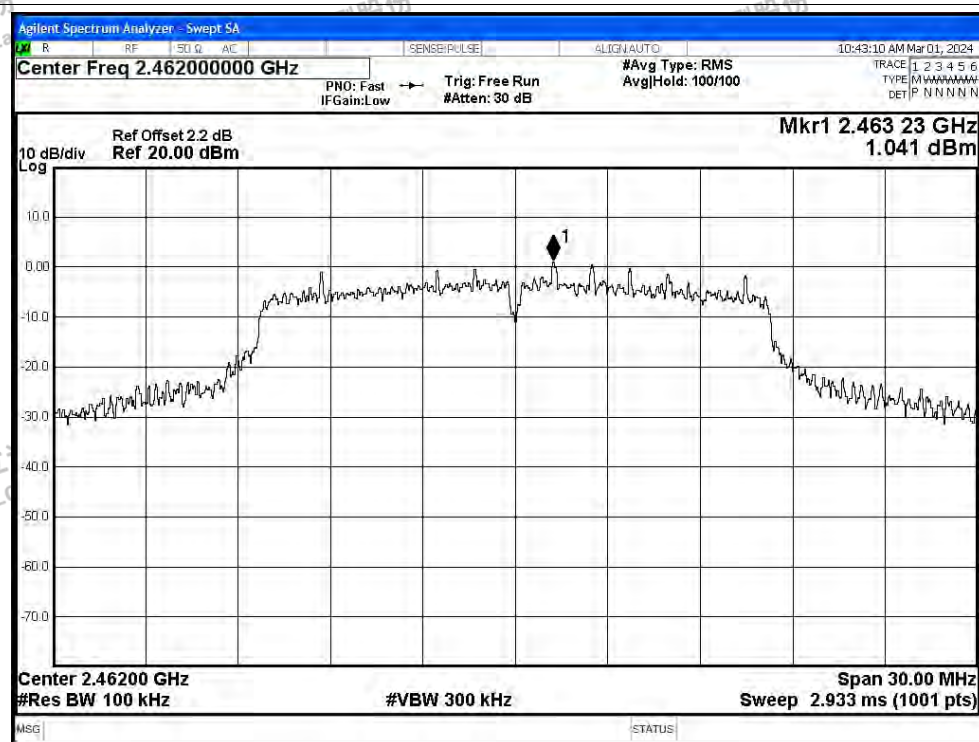
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

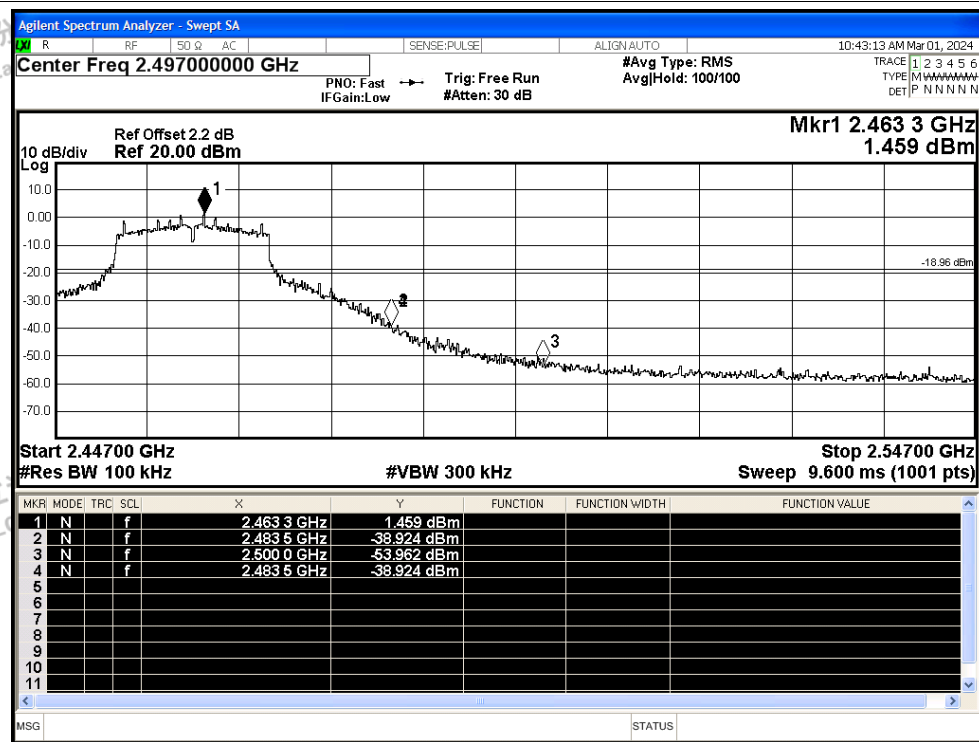
Scan code to check authenticity



Band Edge NVNT g 2462MHz Ant0 Ref



Band Edge NVNT g 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

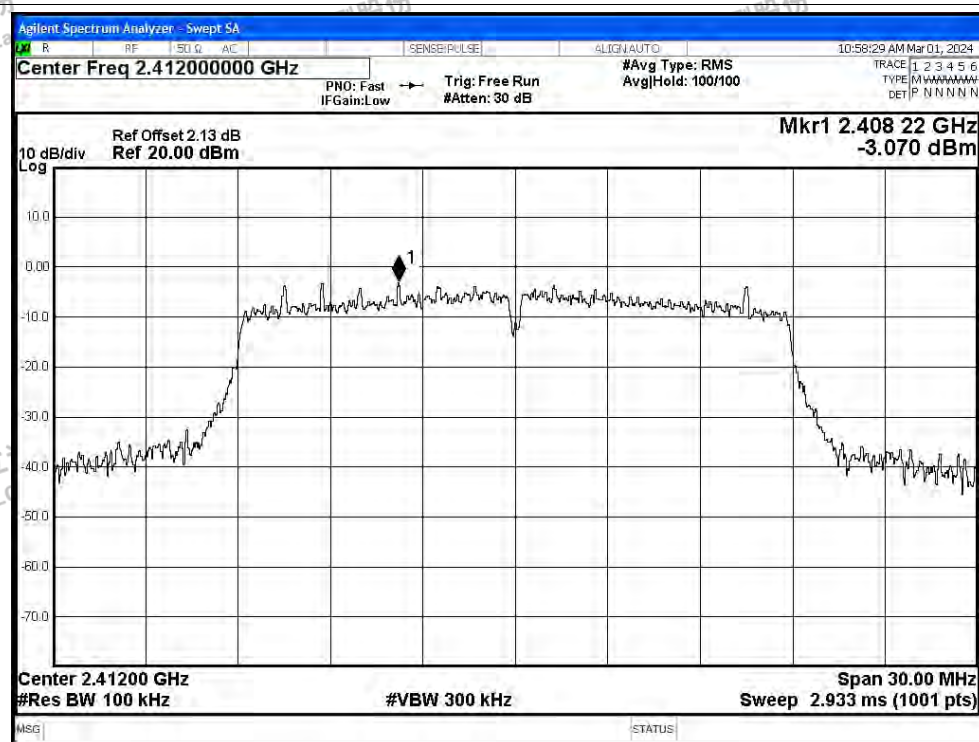
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

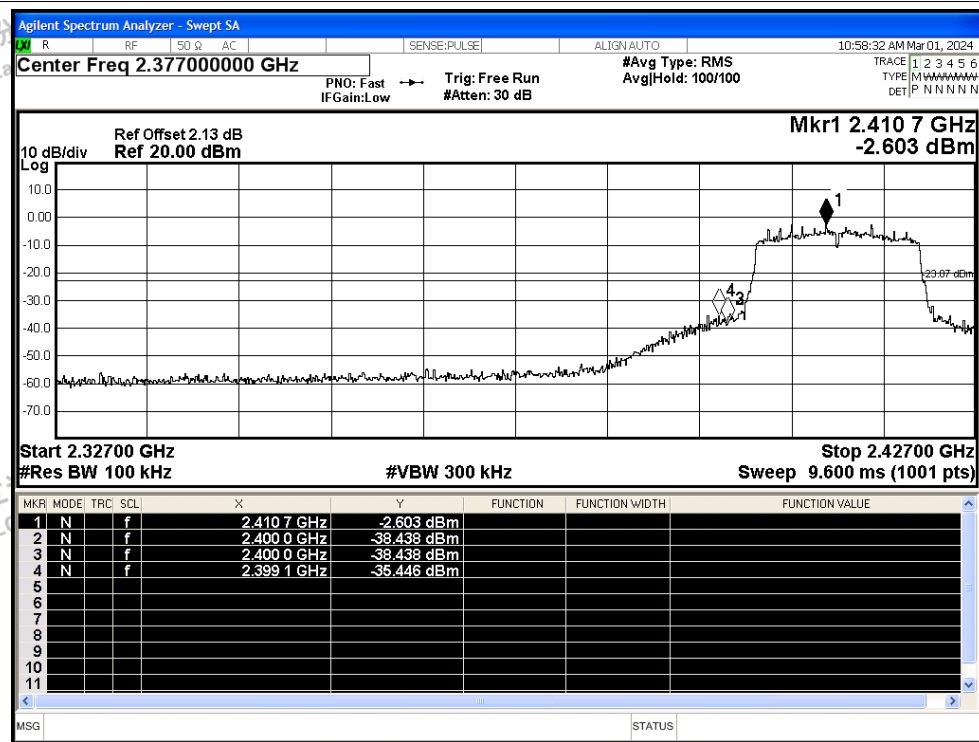
Scan code to check authenticity



Band Edge NVNT n20 2412MHz Ant0 Ref



Band Edge NVNT n20 2412MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

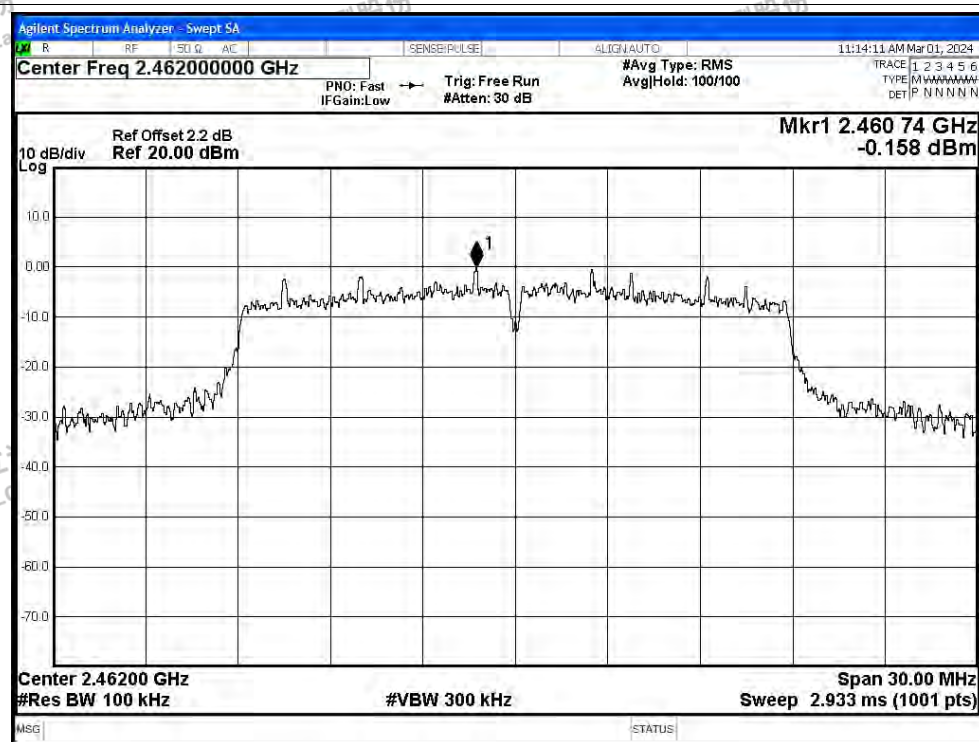
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

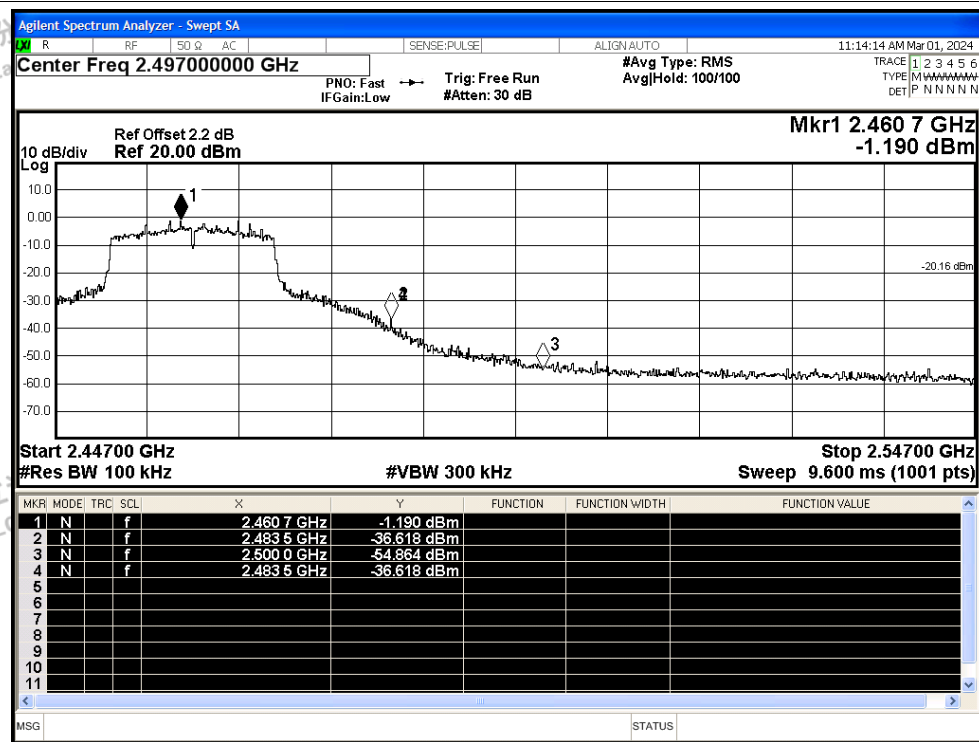
Scan code to check authenticity



Band Edge NVNT n20 2462MHz Ant0 Ref



Band Edge NVNT n20 2462MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

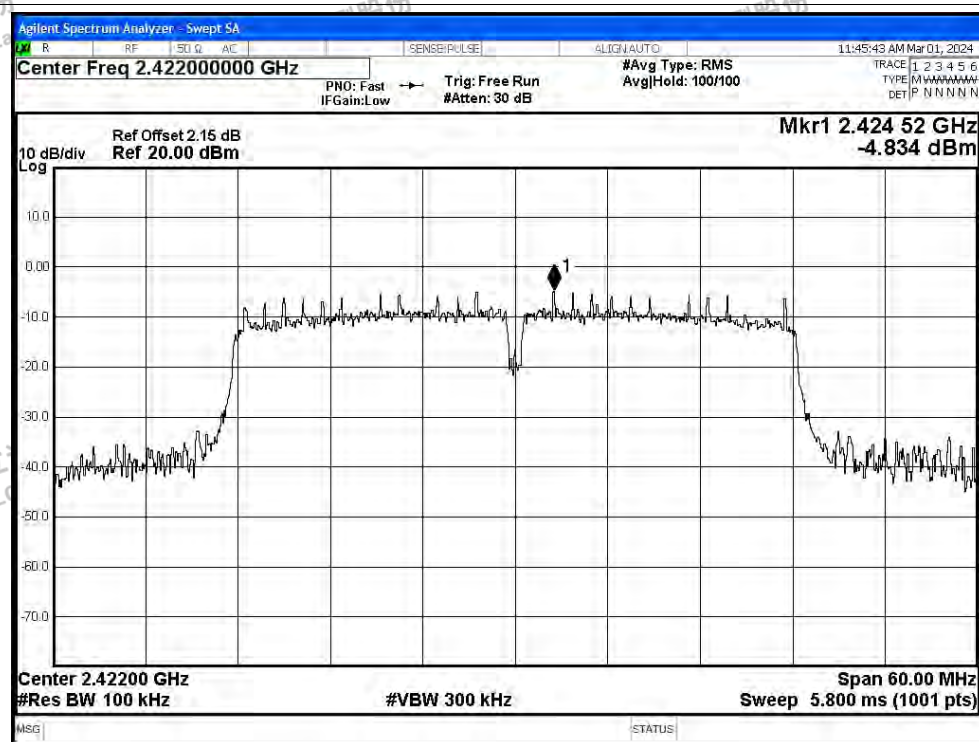
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

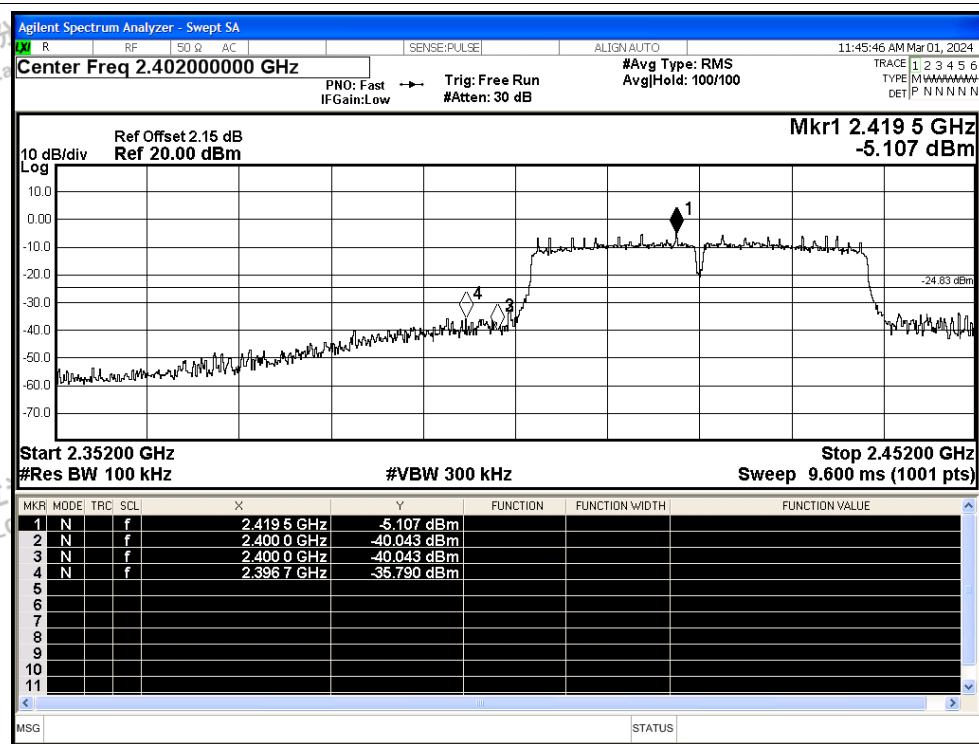
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant0 Ref



Band Edge NVNT n40 2422MHz Ant0 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

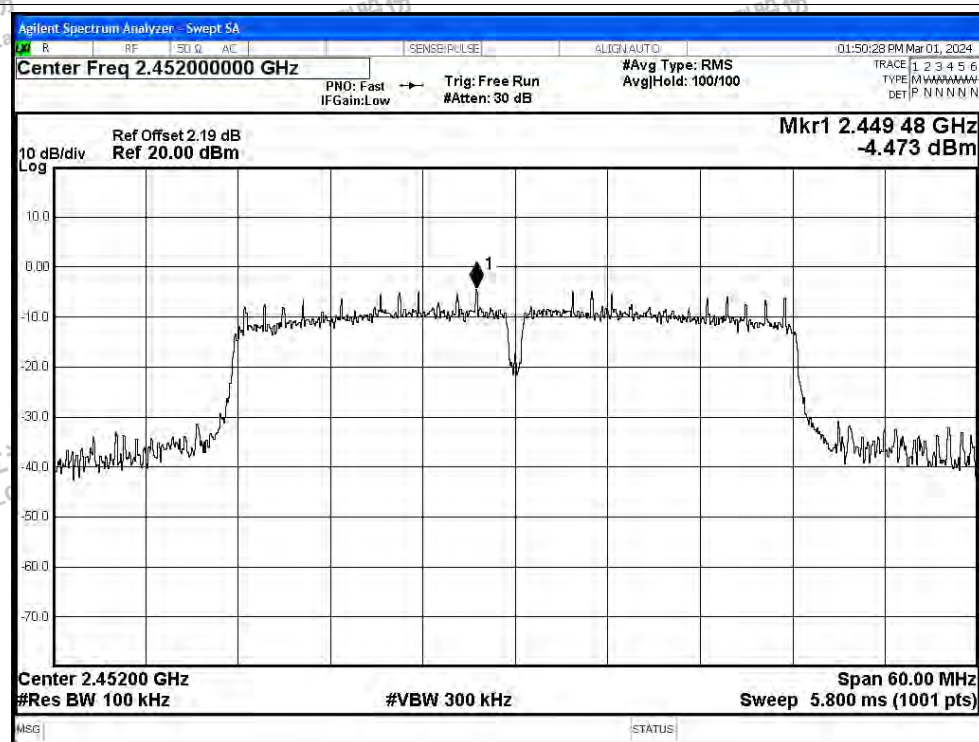
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

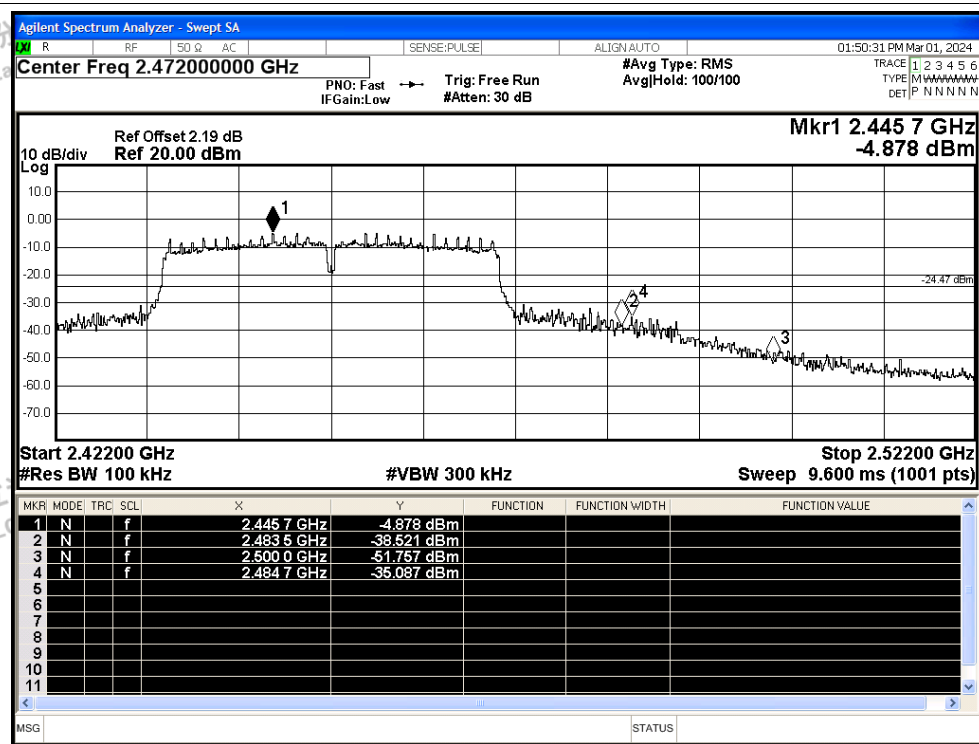
Scan code to check authenticity



Band Edge NVNT n40 2452MHz Ant0 Ref



Band Edge NVNT n40 2452MHz Ant0 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



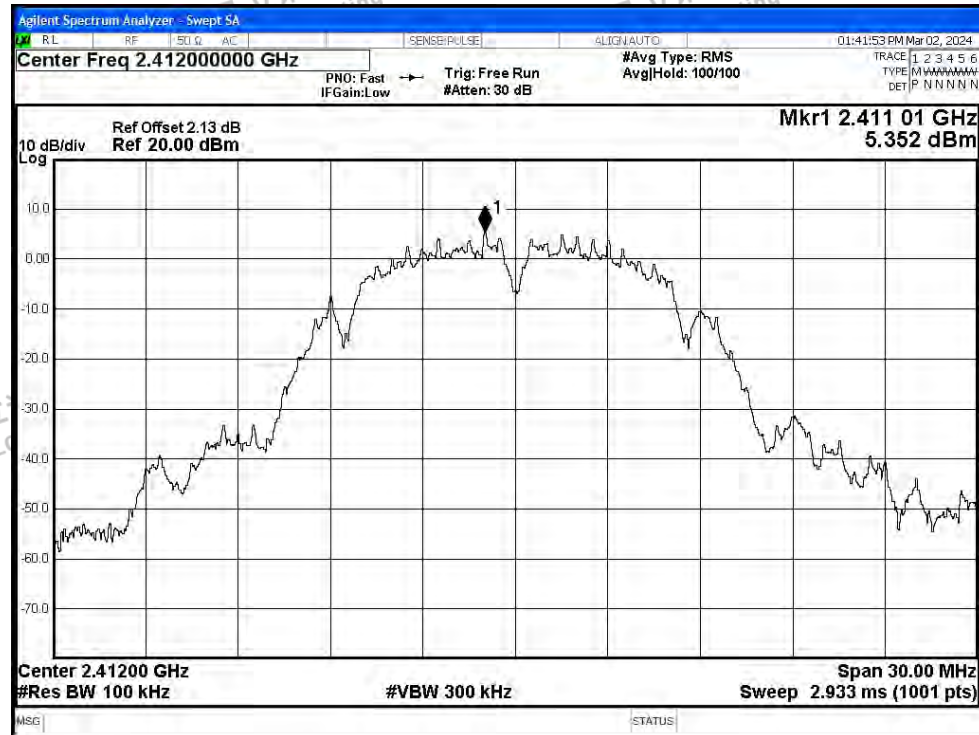
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.71	-20	Pass
NVNT	b	2462	Ant1	-58.63	-20	Pass
NVNT	g	2412	Ant1	-36.53	-20	Pass
NVNT	g	2462	Ant1	-44.45	-20	Pass
NVNT	n20	2412	Ant1	-32.73	-20	Pass
NVNT	n20	2462	Ant1	-42.05	-20	Pass
NVNT	n40	2422	Ant1	-37.05	-20	Pass
NVNT	n40	2452	Ant1	-36.93	-20	Pass



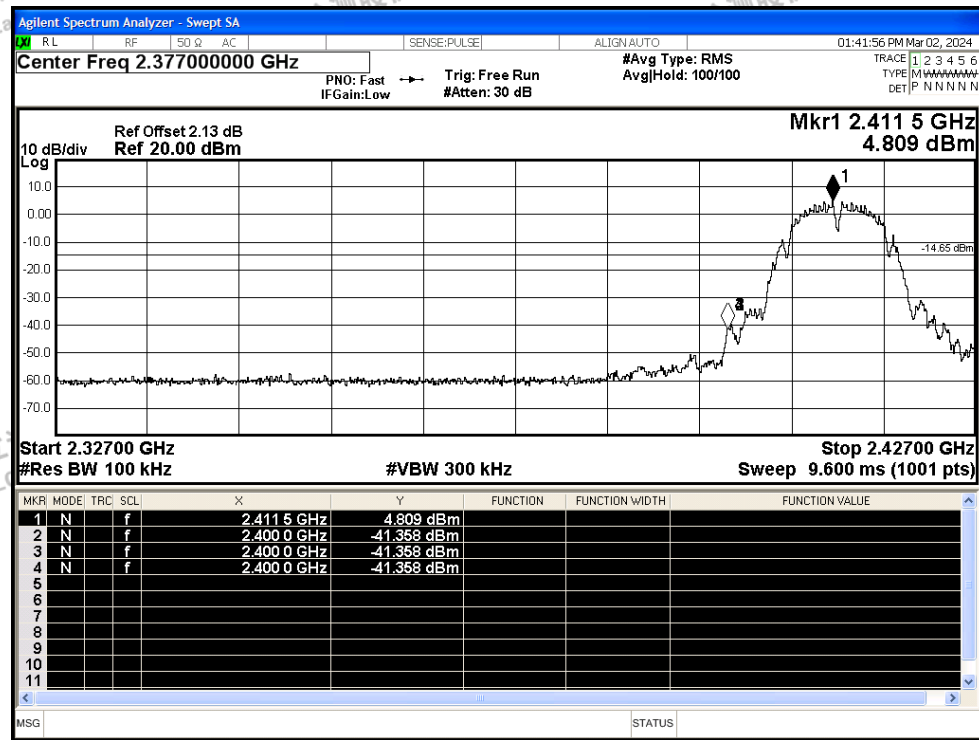


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

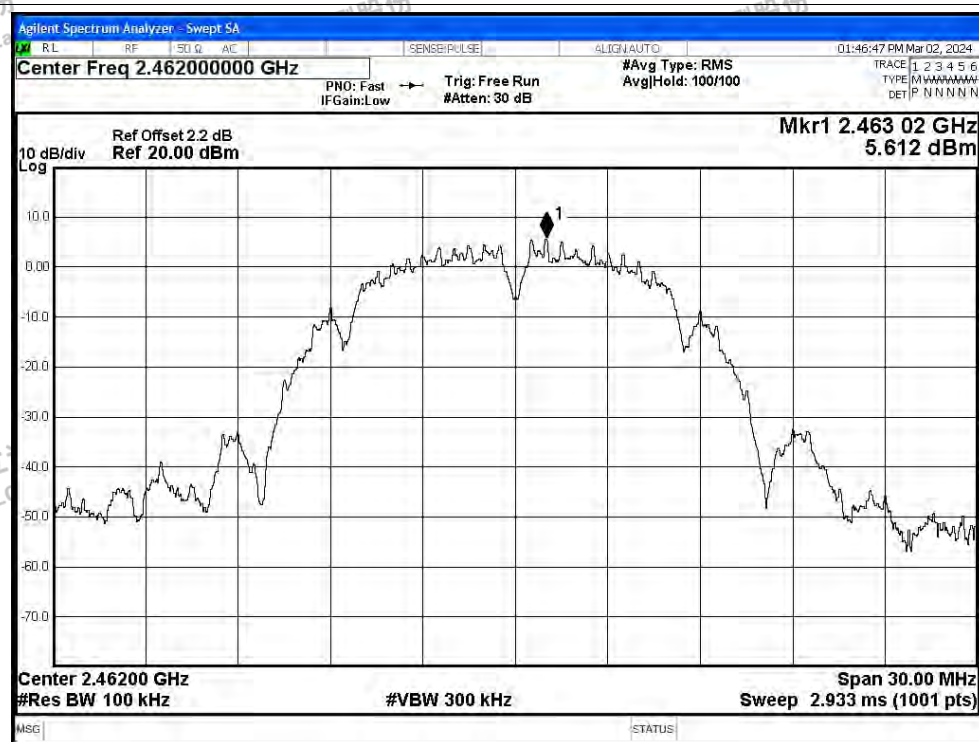
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

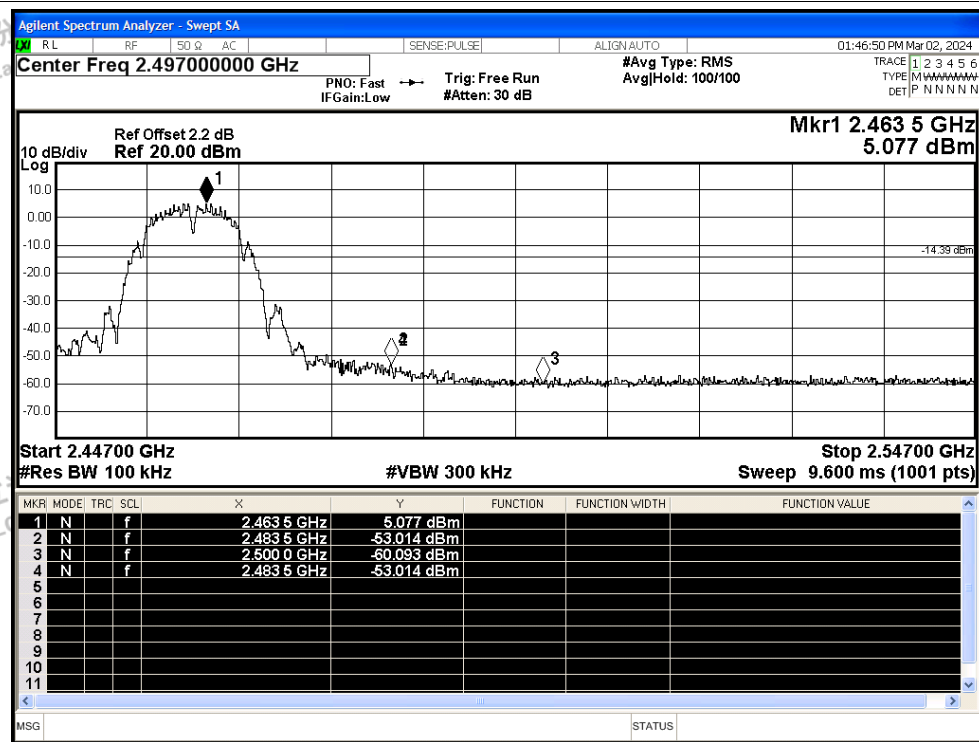
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

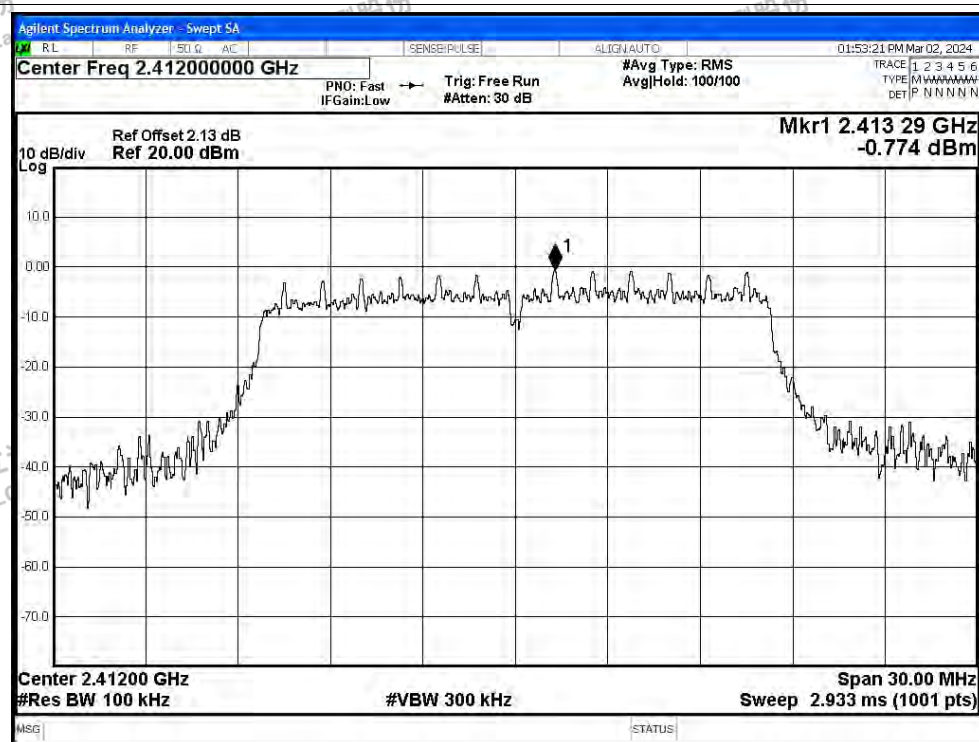
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

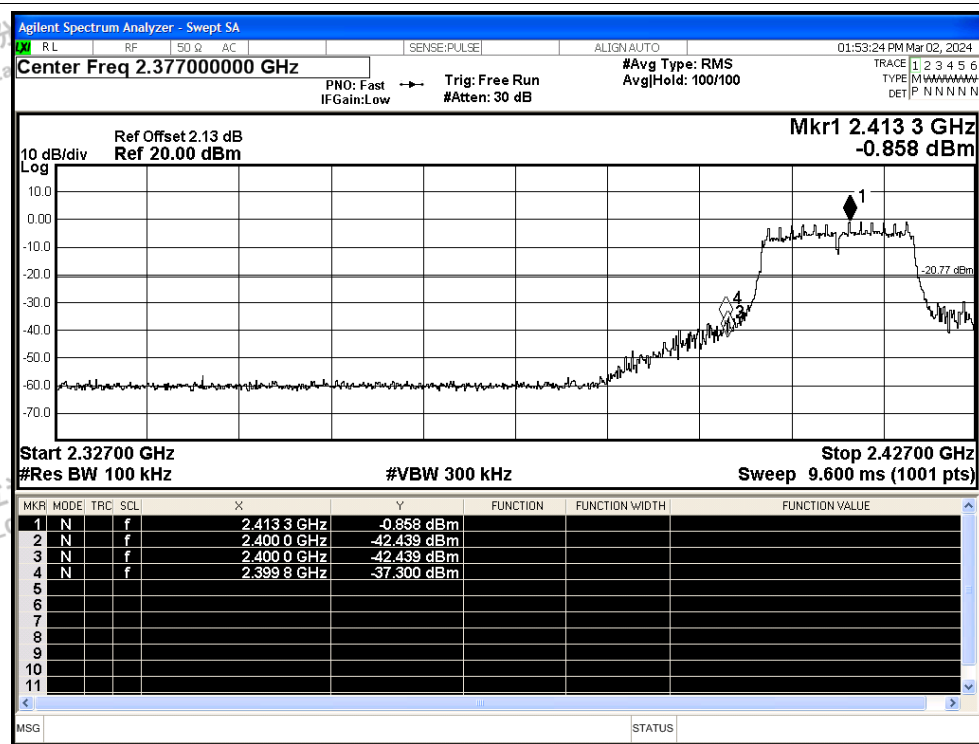
Scan code to check authenticity



Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

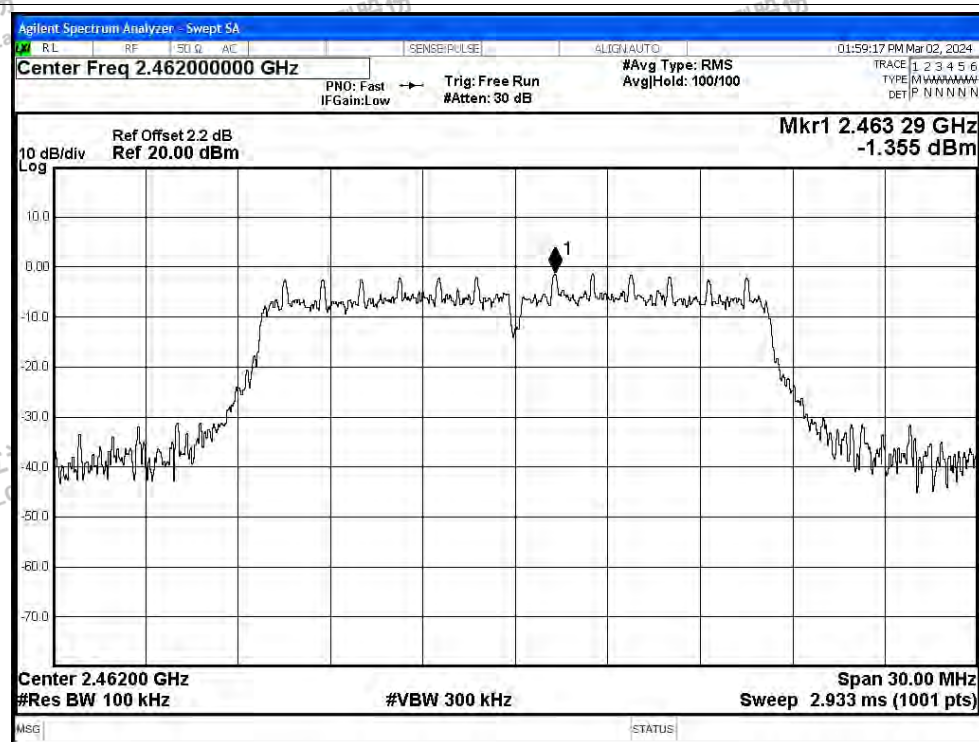
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

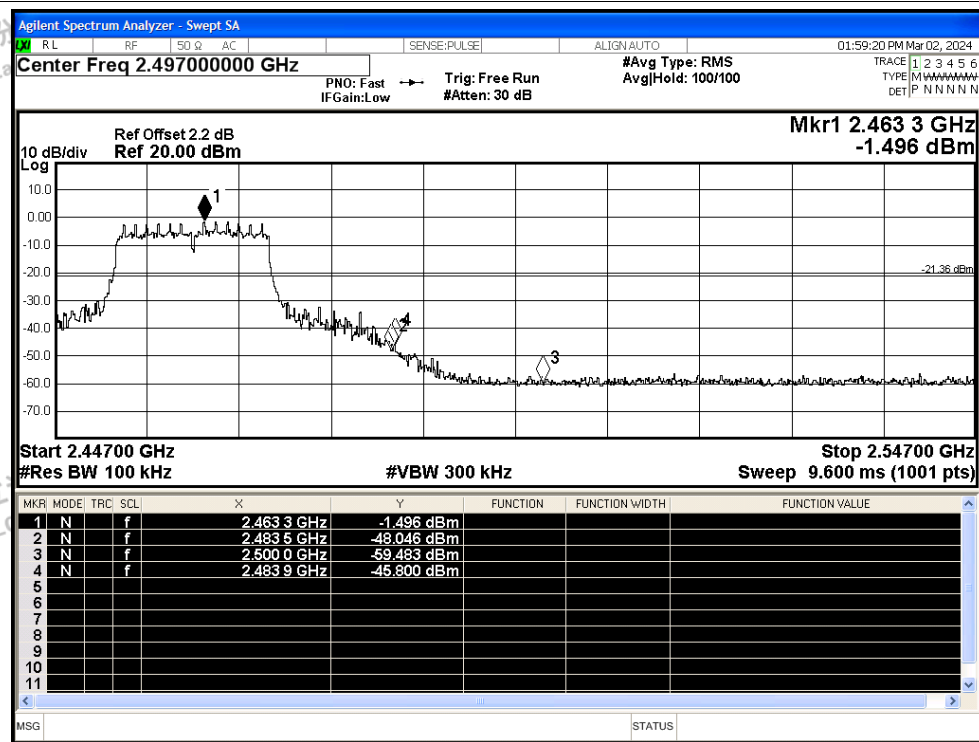
Scan code to check authenticity



Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

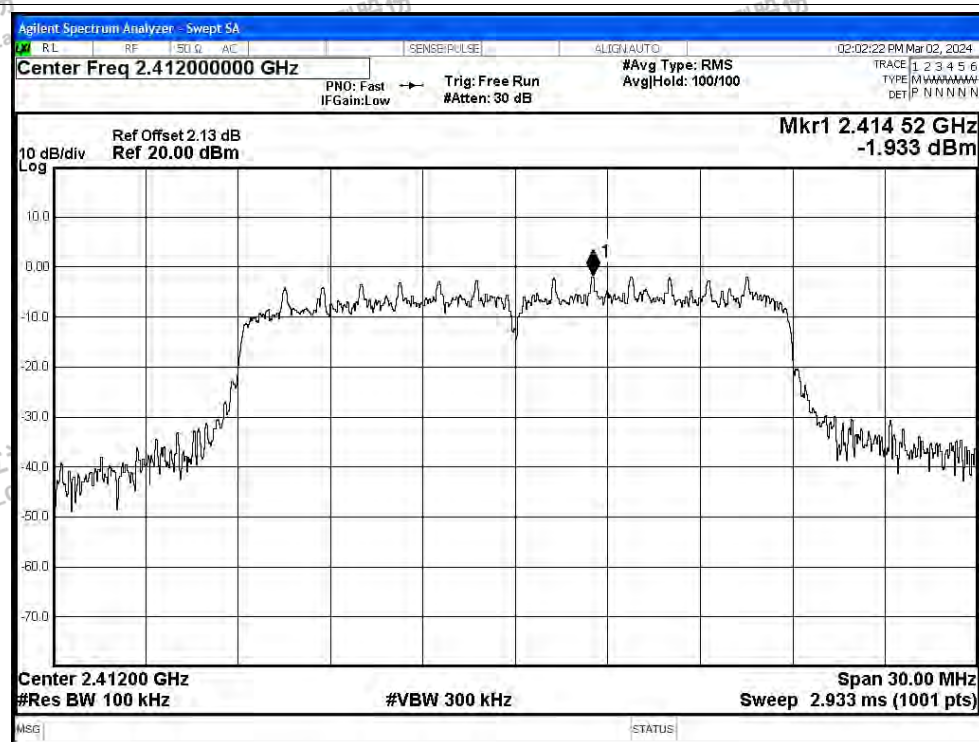
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

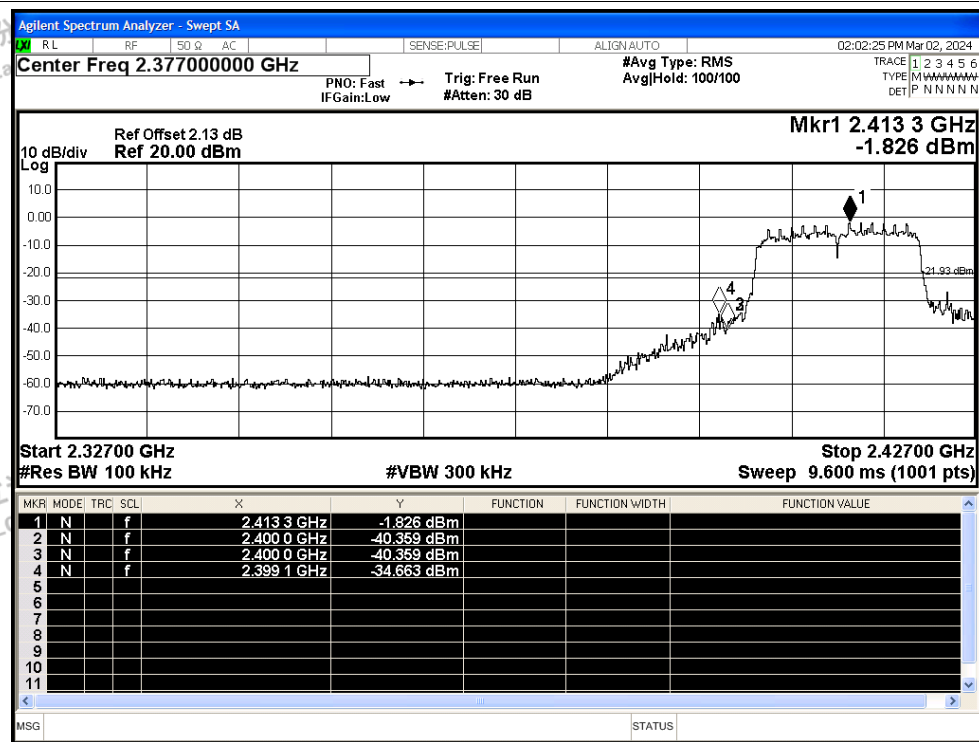
Scan code to check authenticity



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

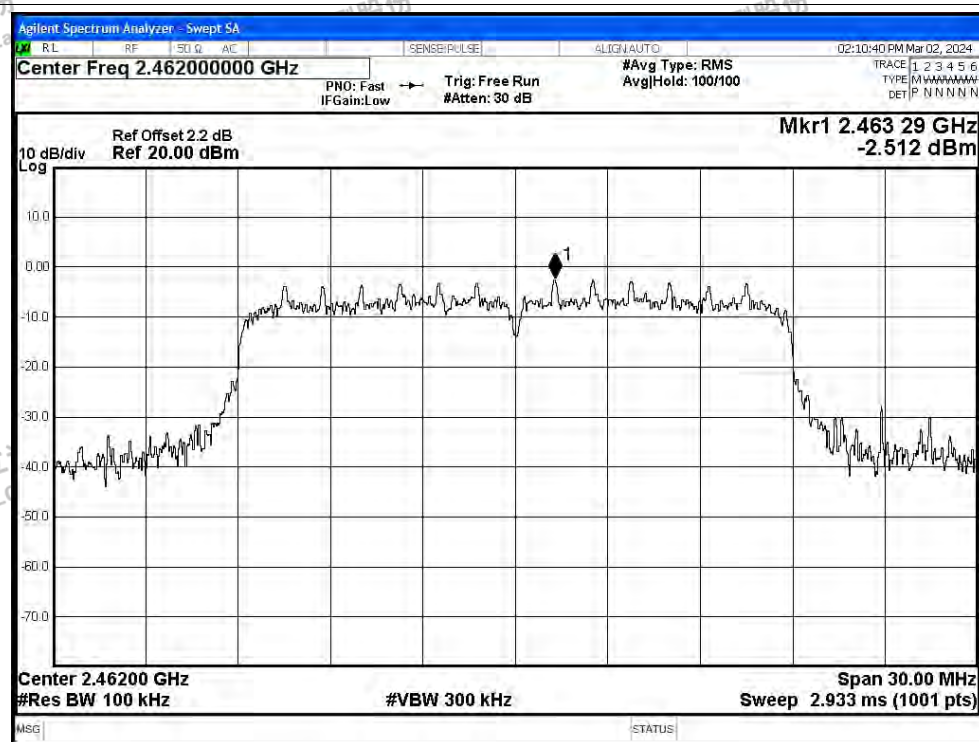
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

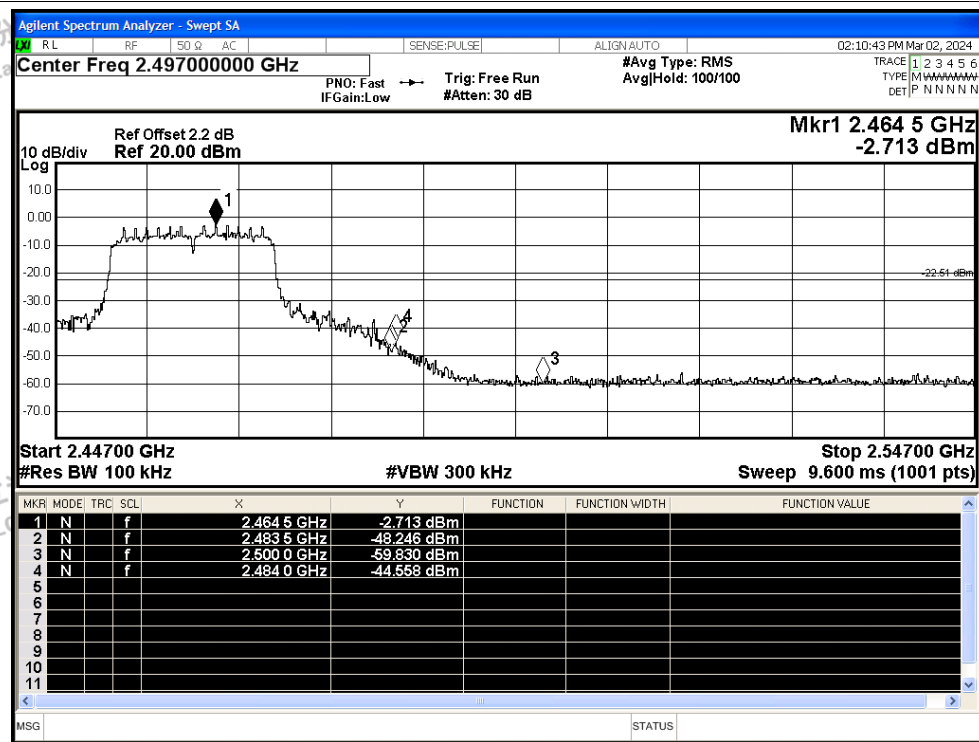
Scan code to check authenticity



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

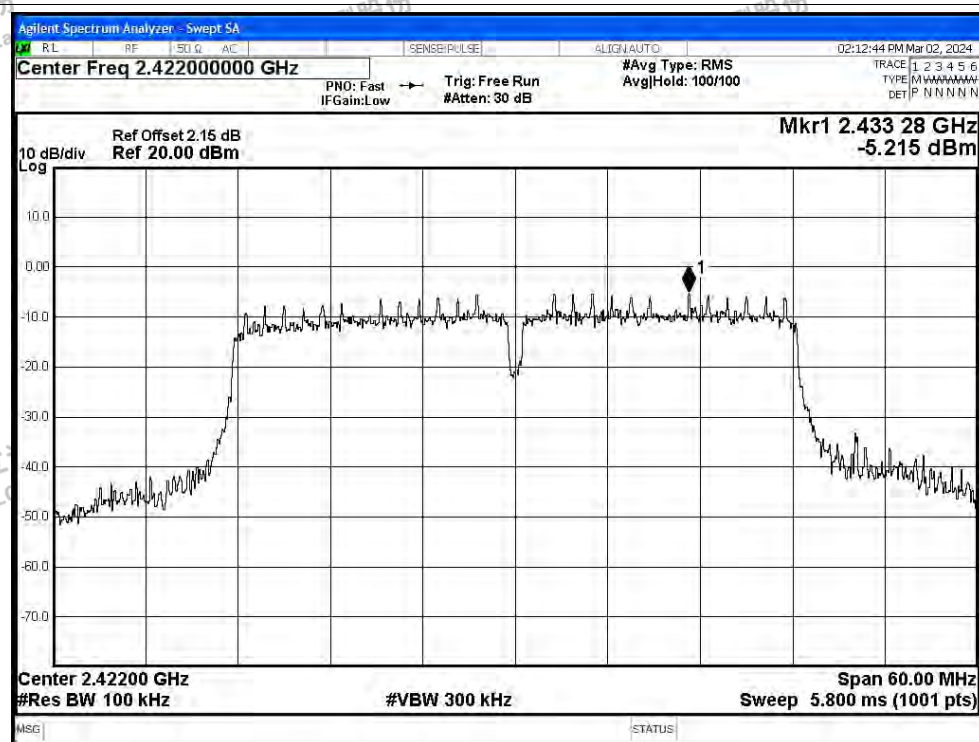
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

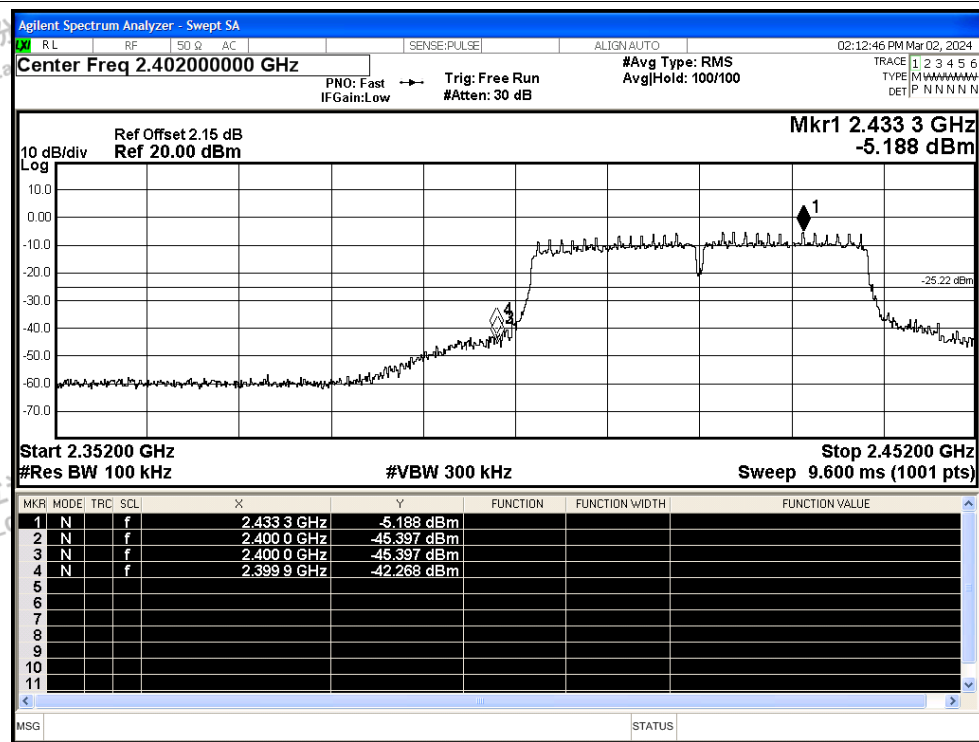
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

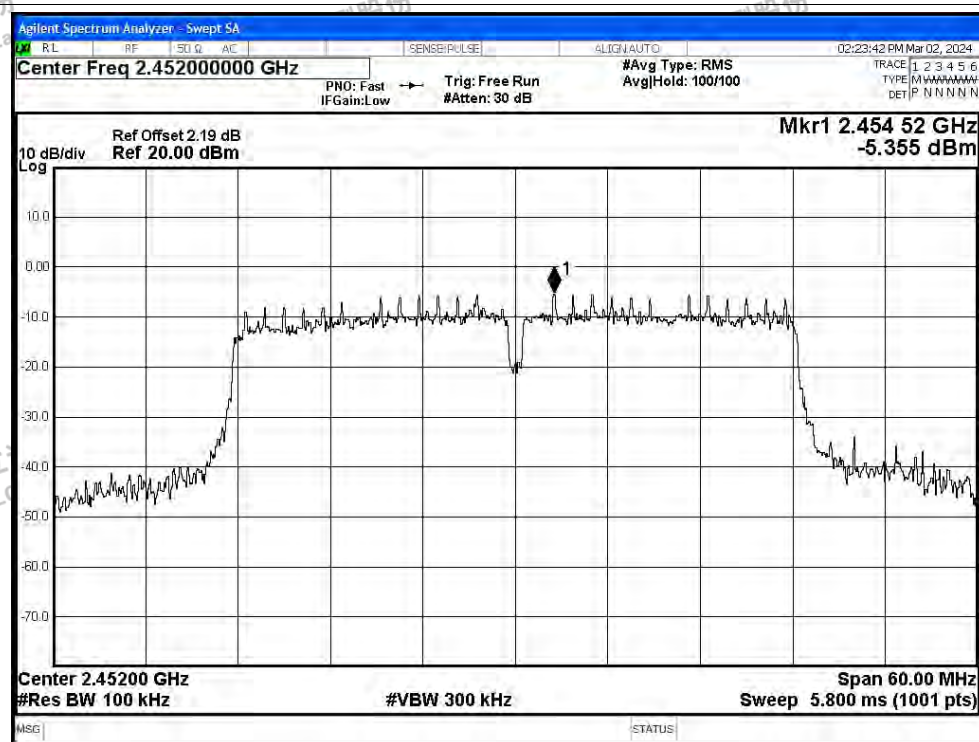
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

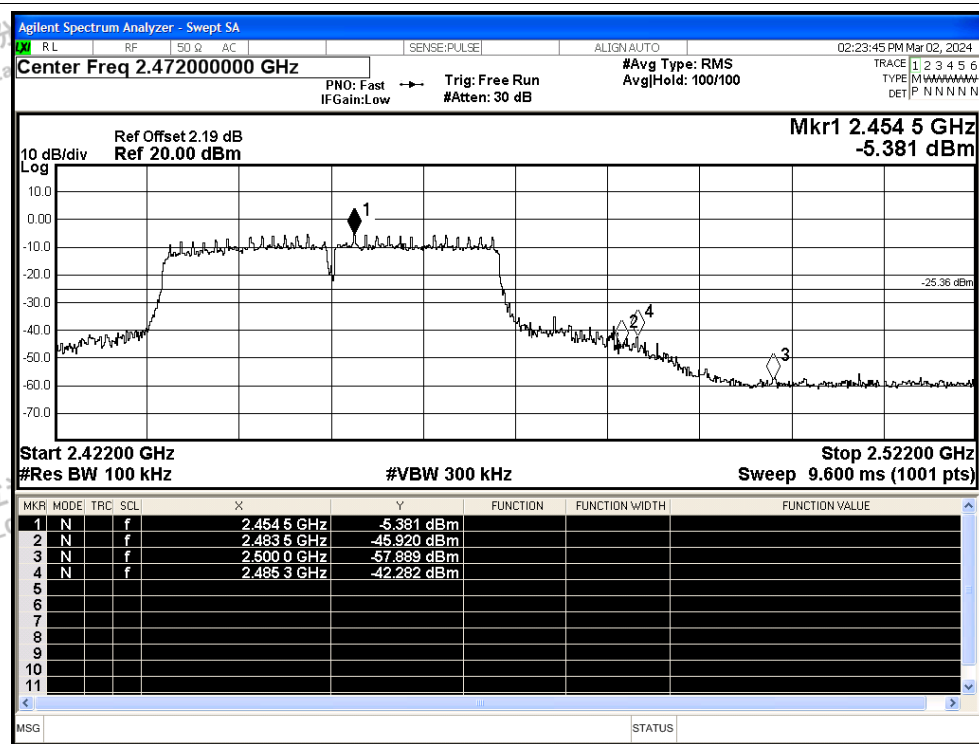
Scan code to check authenticity



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz 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

Scan code to check authenticity



C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-49.64	-20	Pass
NVNT	b	2437	Ant0	-50.06	-20	Pass
NVNT	b	2462	Ant0	-49.07	-20	Pass
NVNT	g	2412	Ant0	-45.93	-20	Pass
NVNT	g	2437	Ant0	-45.15	-20	Pass
NVNT	g	2462	Ant0	-45.65	-20	Pass
NVNT	n20	2412	Ant0	-44	-20	Pass
NVNT	n20	2437	Ant0	-43.54	-20	Pass
NVNT	n20	2462	Ant0	-44.23	-20	Pass
NVNT	n40	2422	Ant0	-39.5	-20	Pass
NVNT	n40	2437	Ant0	-40.43	-20	Pass
NVNT	n40	2452	Ant0	-41.08	-20	Pass

