



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name:LCD PROJECTOR
Test Model: L009BQ

Environmental Conditions

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





C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.04	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.094	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.038	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.918	≥ 0.5	Pass
NVNT	g	2437	Ant1	13.227	≥ 0.5	Pass
NVNT	g	2462	Ant1	11.919	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.336	≥ 0.5	Pass
NVNT	n20	2437	Ant1	15.103	≥ 0.5	Pass
NVNT	n20	2462	Ant1	15.068	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.66	≥ 0.5	Pass
NVNT	n40	2437	Ant1	32.838	≥ 0.5	Pass
NVNT	n40	2452	Ant1	17.555	≥ 0.5	Pass



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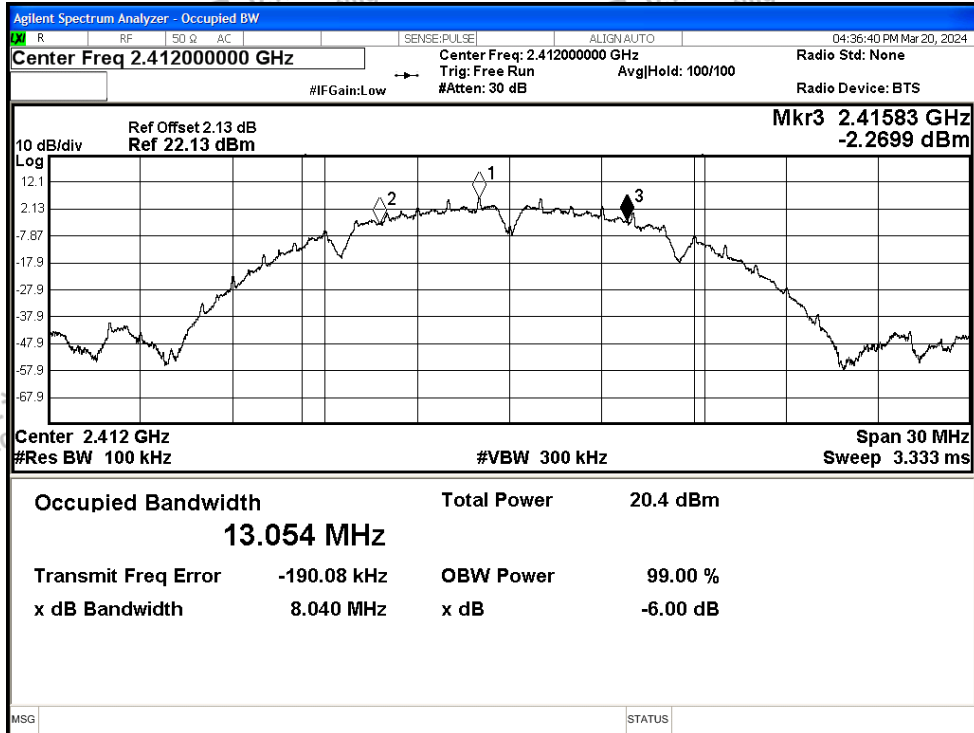
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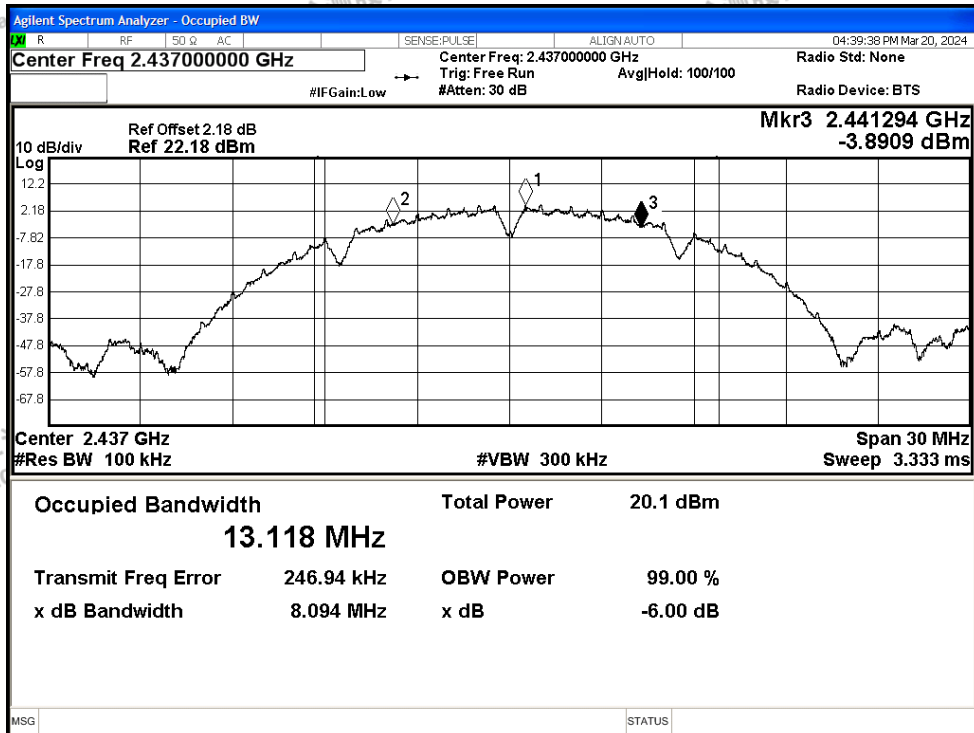


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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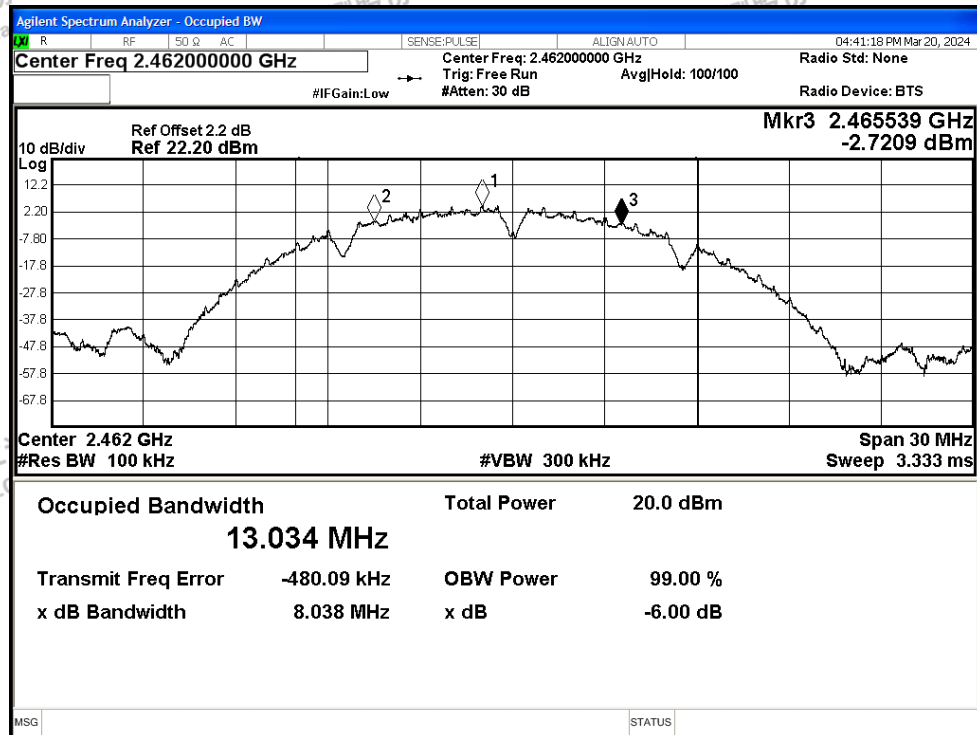
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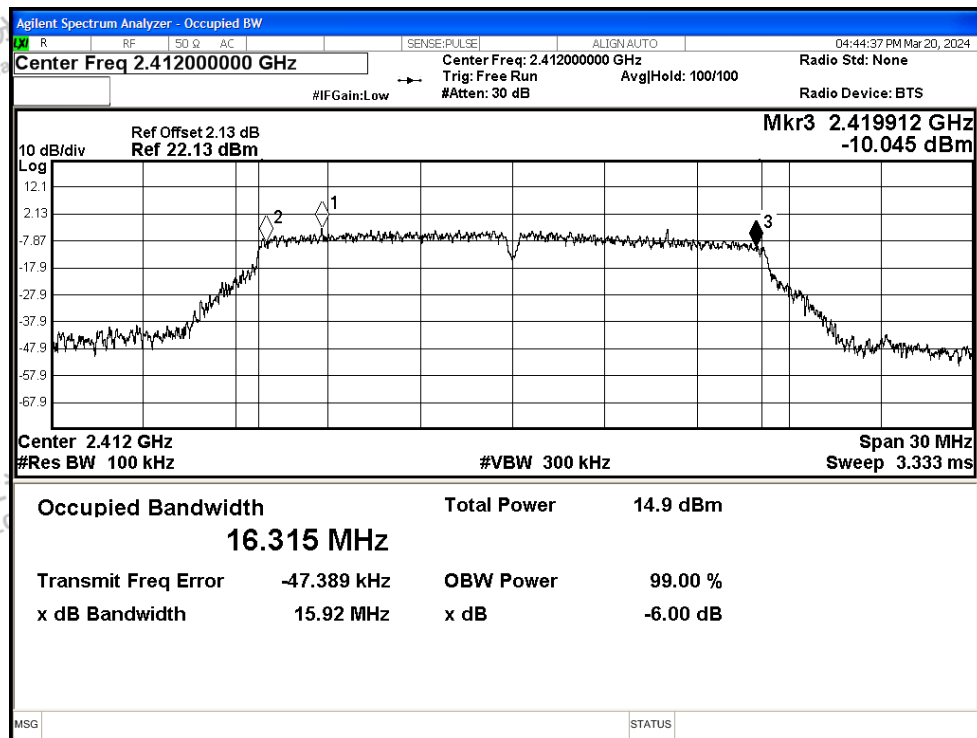
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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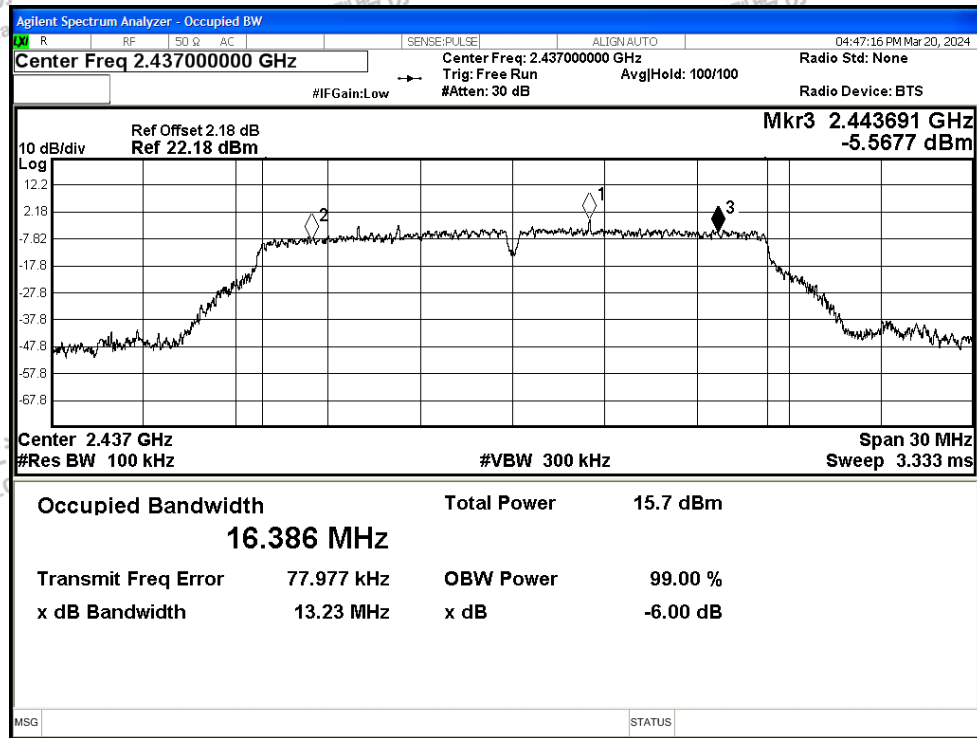
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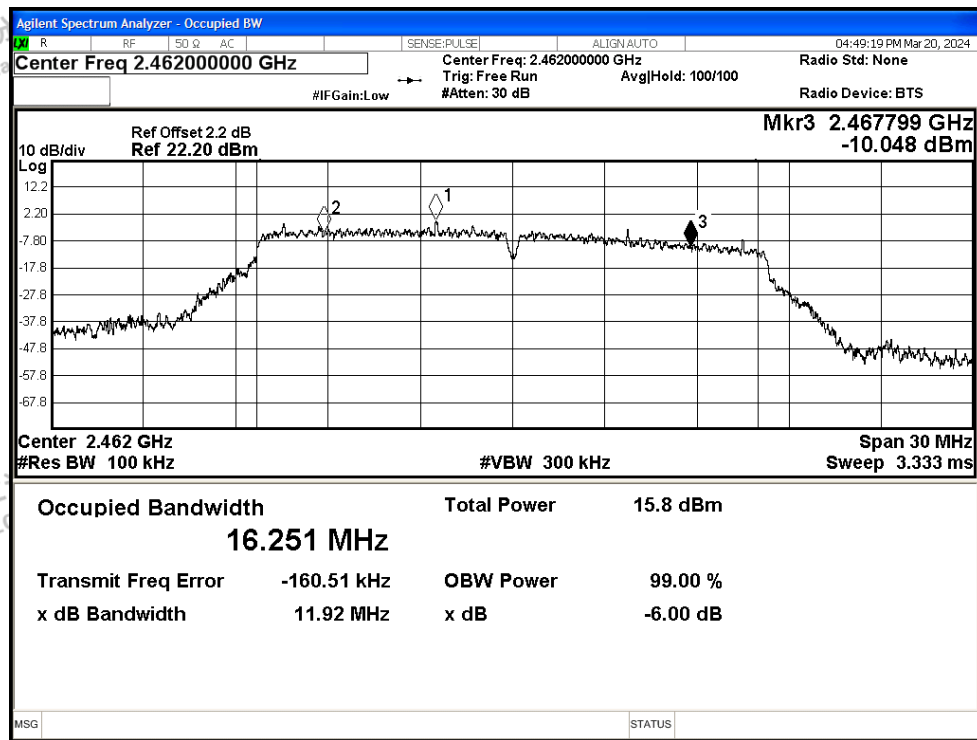
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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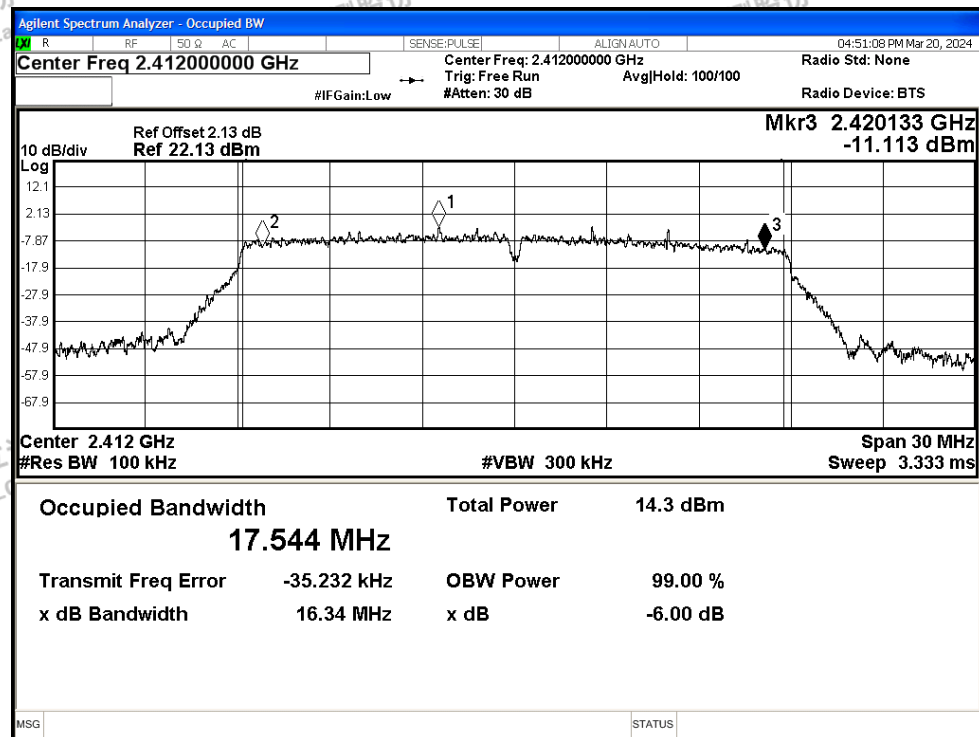
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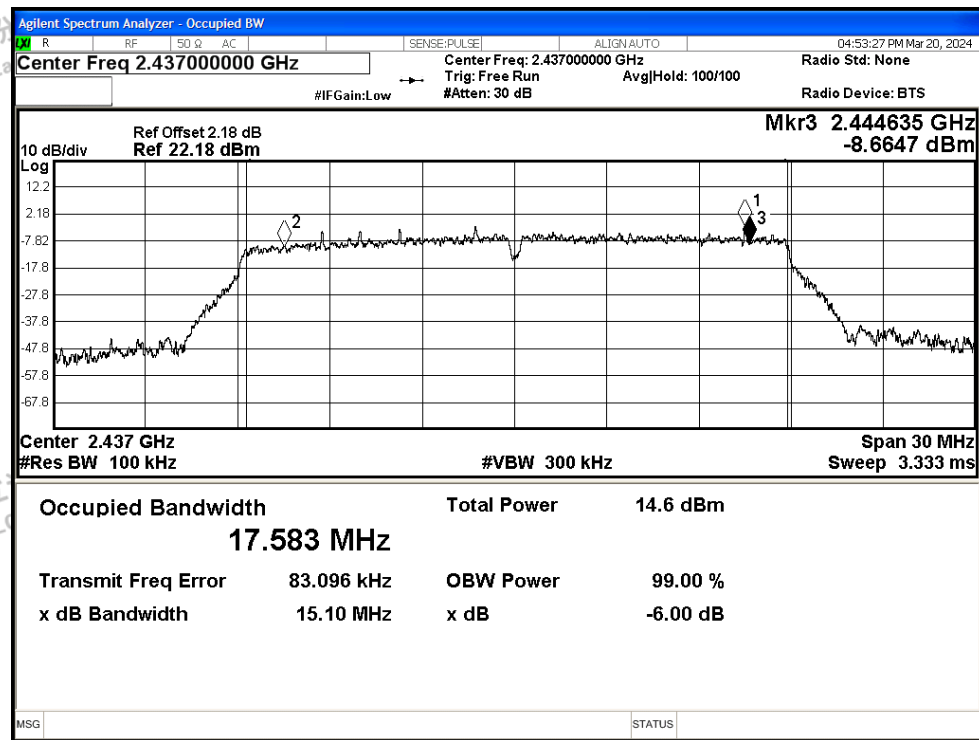
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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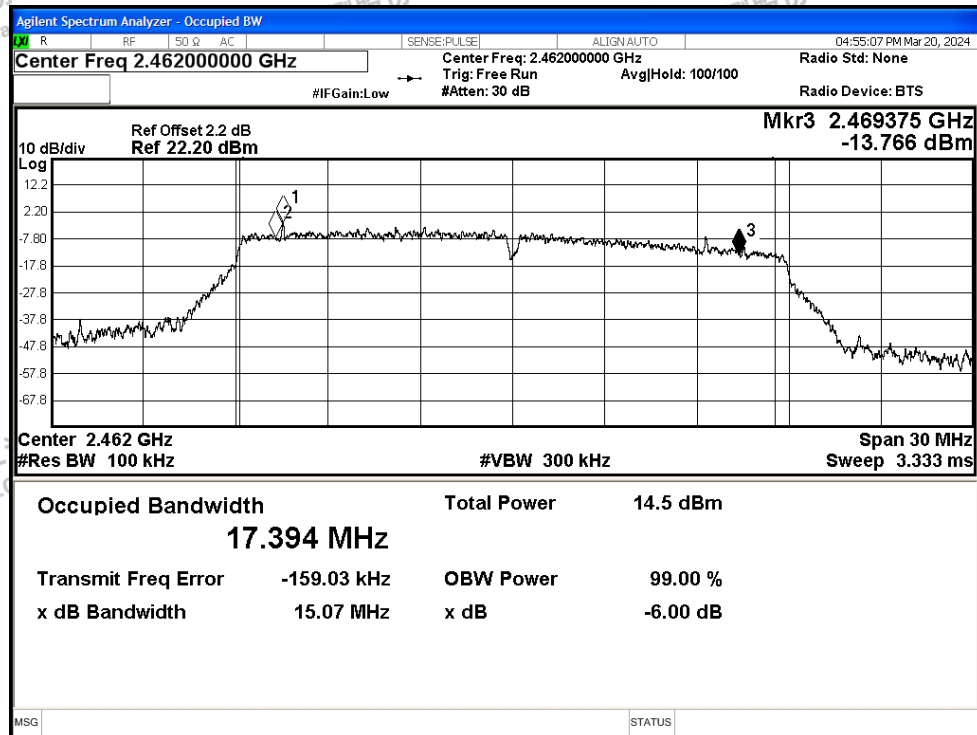
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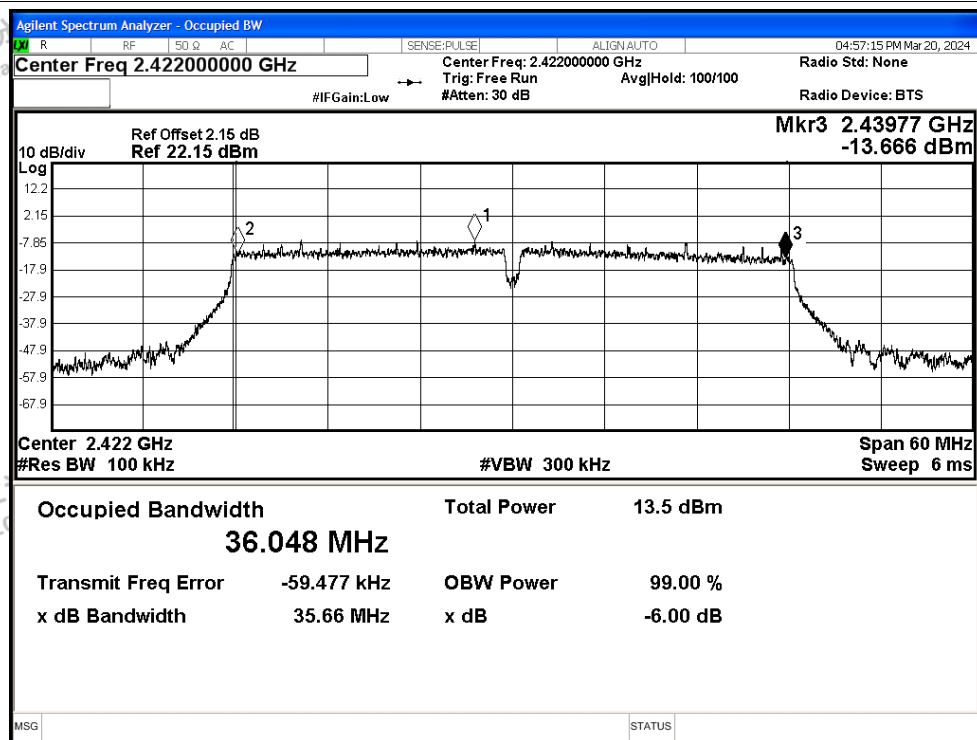
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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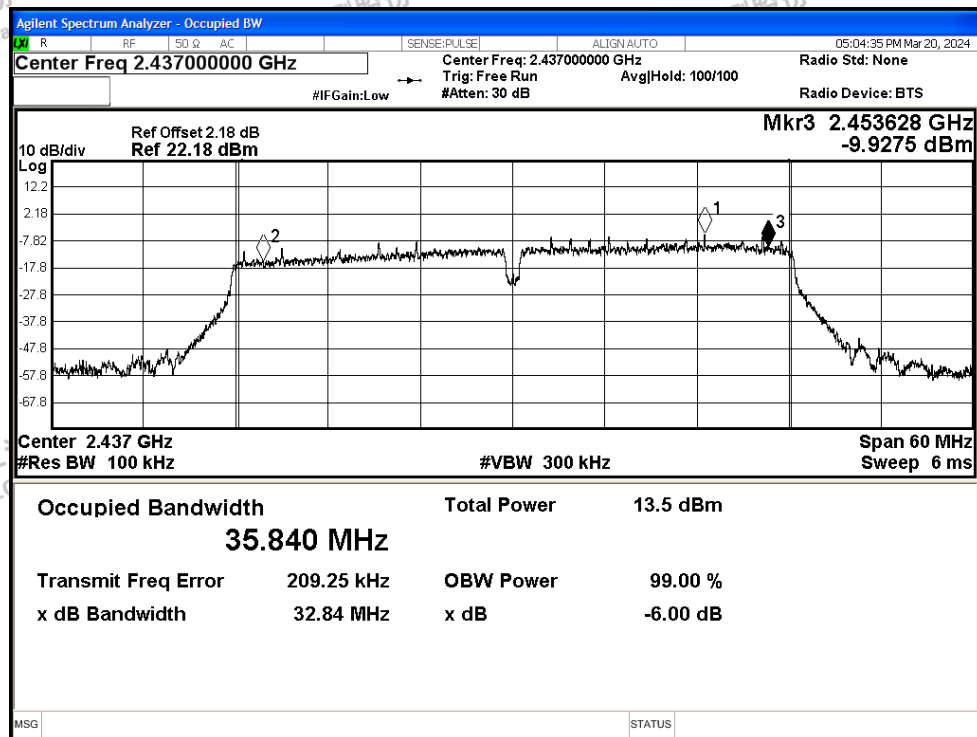
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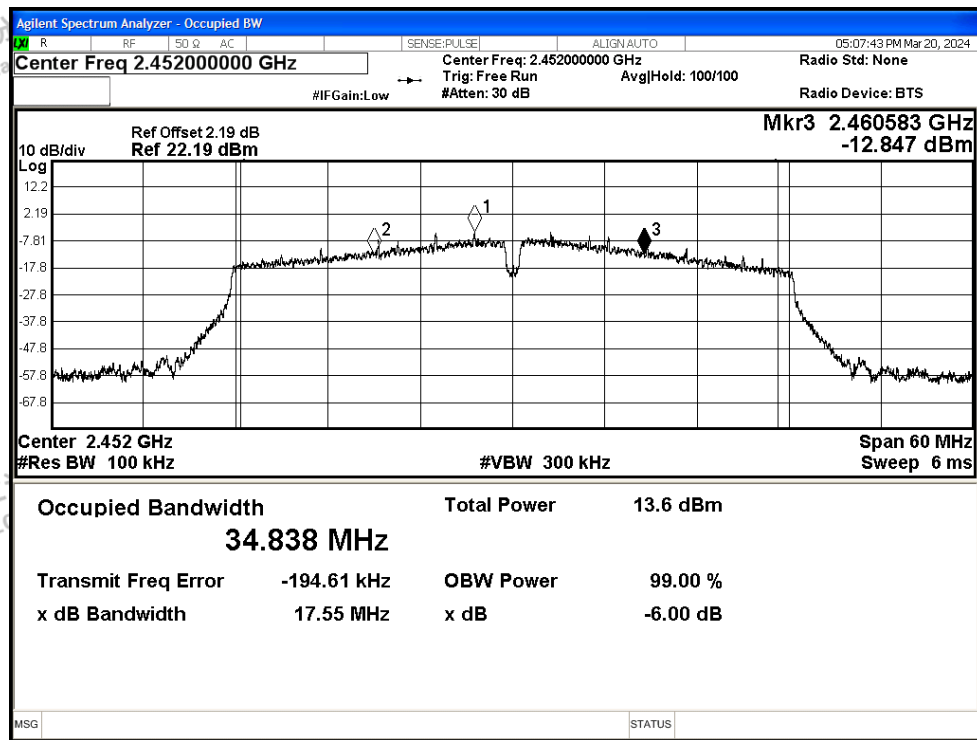
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	10.067	≥ 0.5	Pass
NVNT	b	2437	Ant2	9.148	≥ 0.5	Pass
NVNT	b	2462	Ant2	9.536	≥ 0.5	Pass
NVNT	g	2412	Ant2	16.045	≥ 0.5	Pass
NVNT	g	2437	Ant2	16.322	≥ 0.5	Pass
NVNT	g	2462	Ant2	16.281	≥ 0.5	Pass
NVNT	n20	2412	Ant2	16.822	≥ 0.5	Pass
NVNT	n20	2437	Ant2	16.753	≥ 0.5	Pass
NVNT	n20	2462	Ant2	16.841	≥ 0.5	Pass
NVNT	n40	2422	Ant2	35.335	≥ 0.5	Pass
NVNT	n40	2437	Ant2	35.352	≥ 0.5	Pass
NVNT	n40	2452	Ant2	35.783	≥ 0.5	Pass



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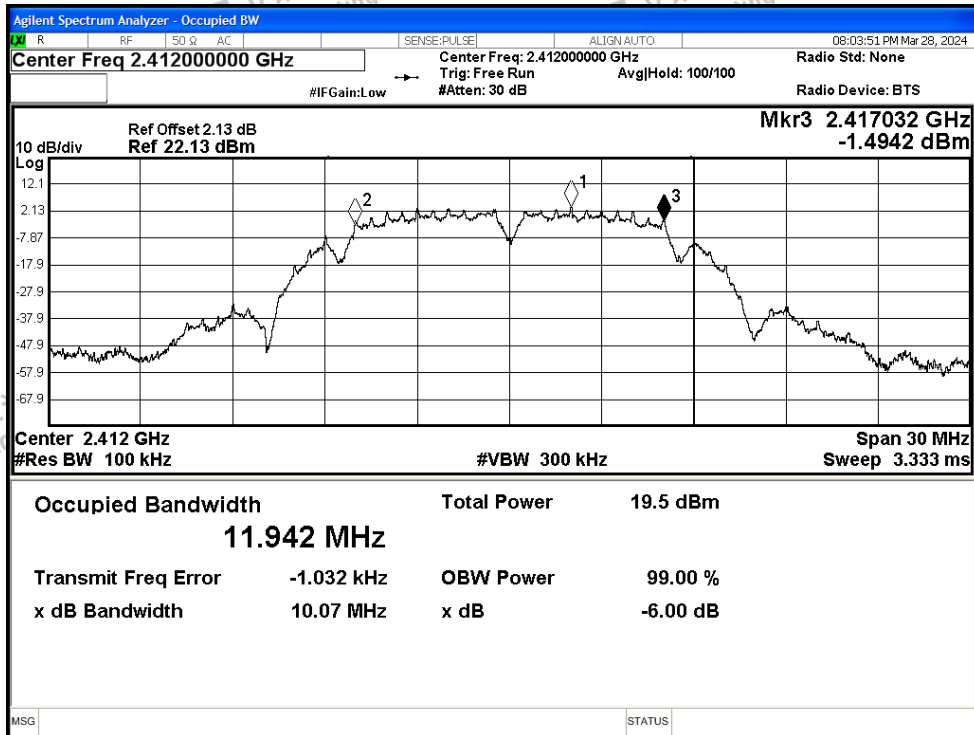
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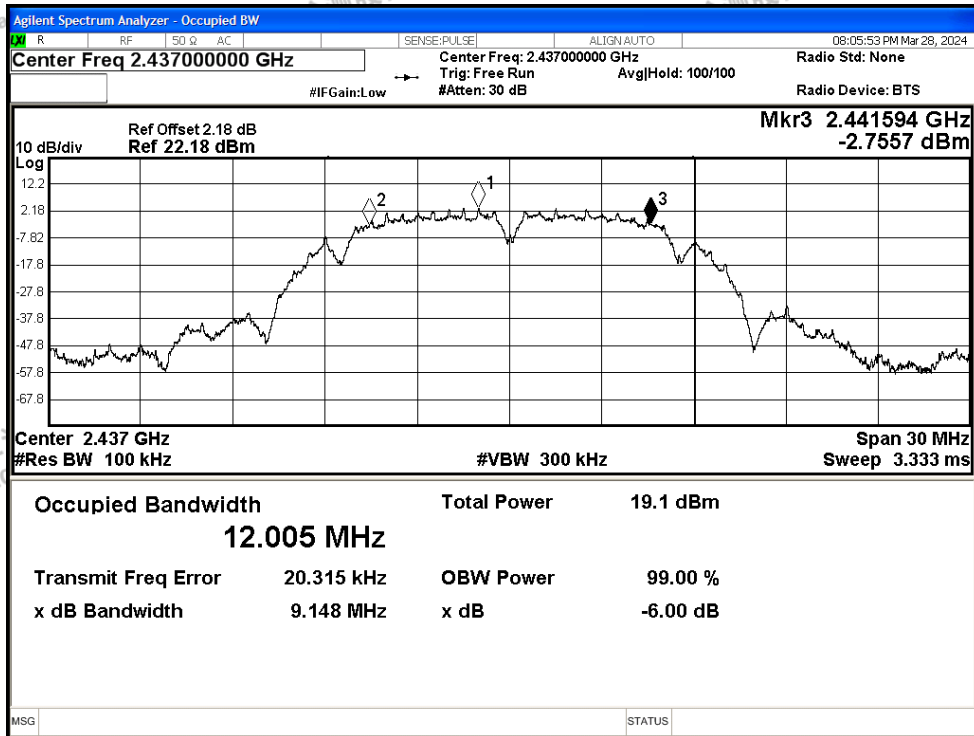


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant2



-6dB Bandwidth NVNT b 2437MHz Ant2



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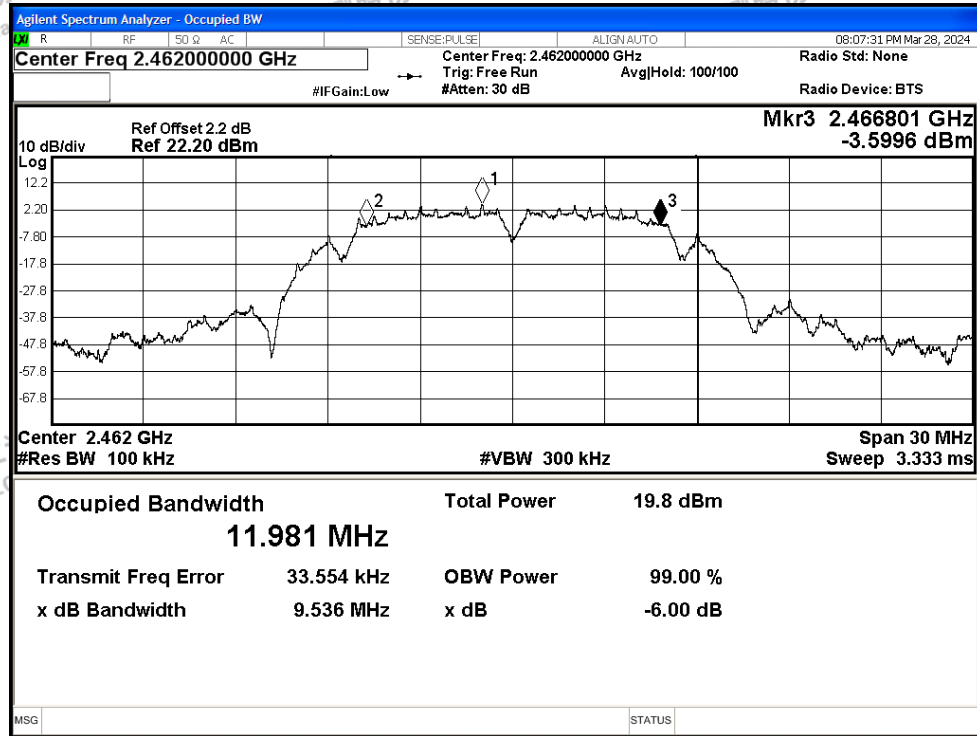
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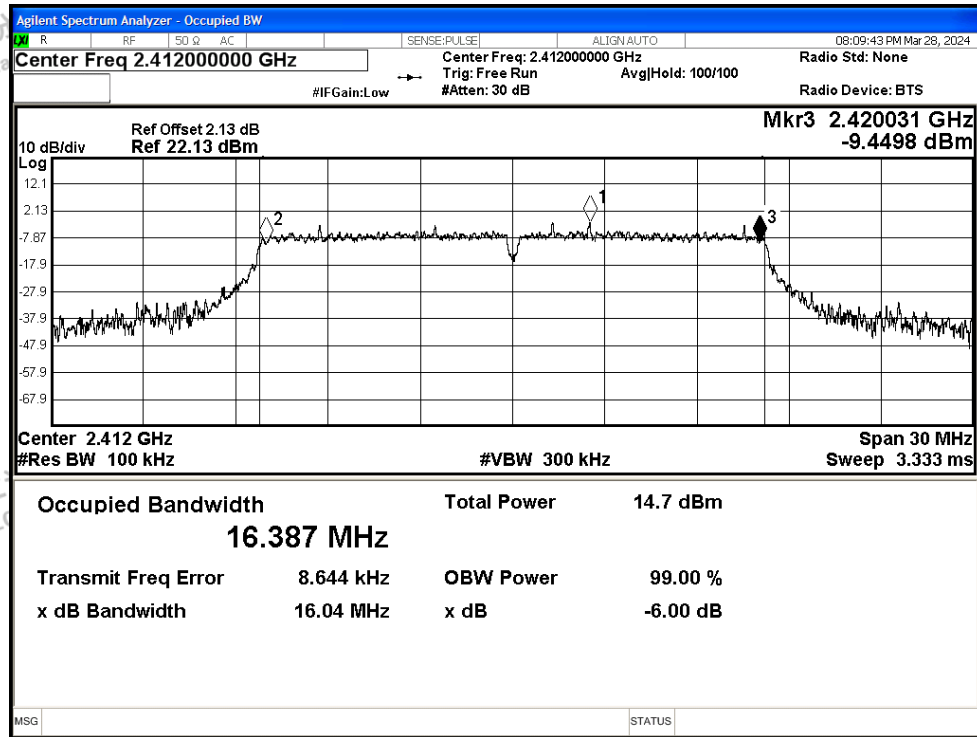
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-6dB Bandwidth NVNT b 2462MHz Ant2



-6dB Bandwidth NVNT g 2412MHz Ant2



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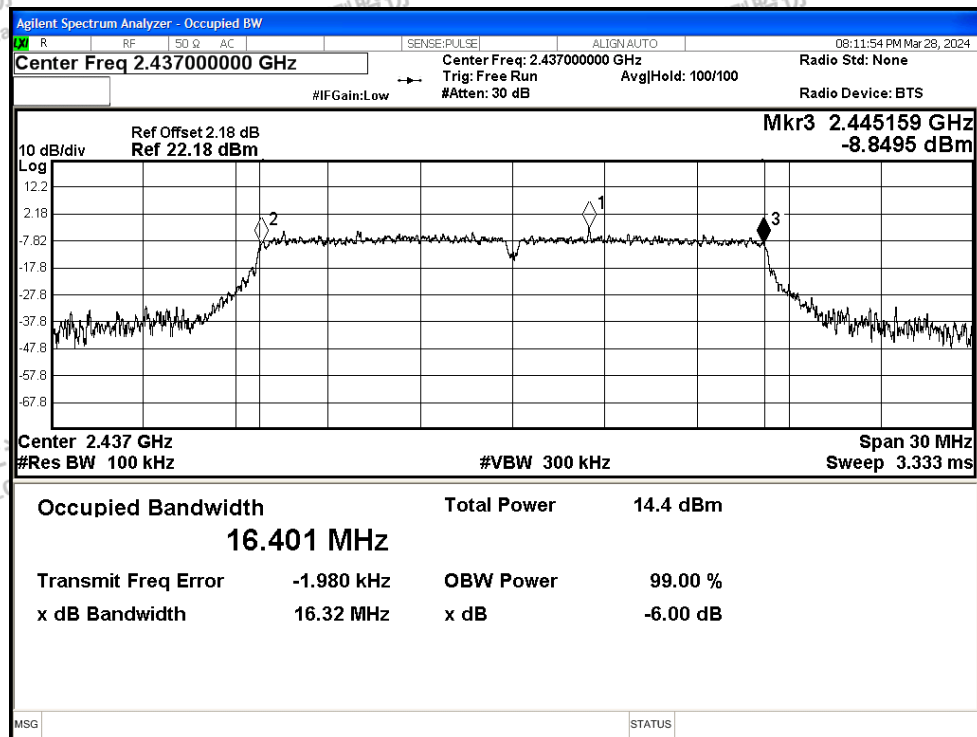
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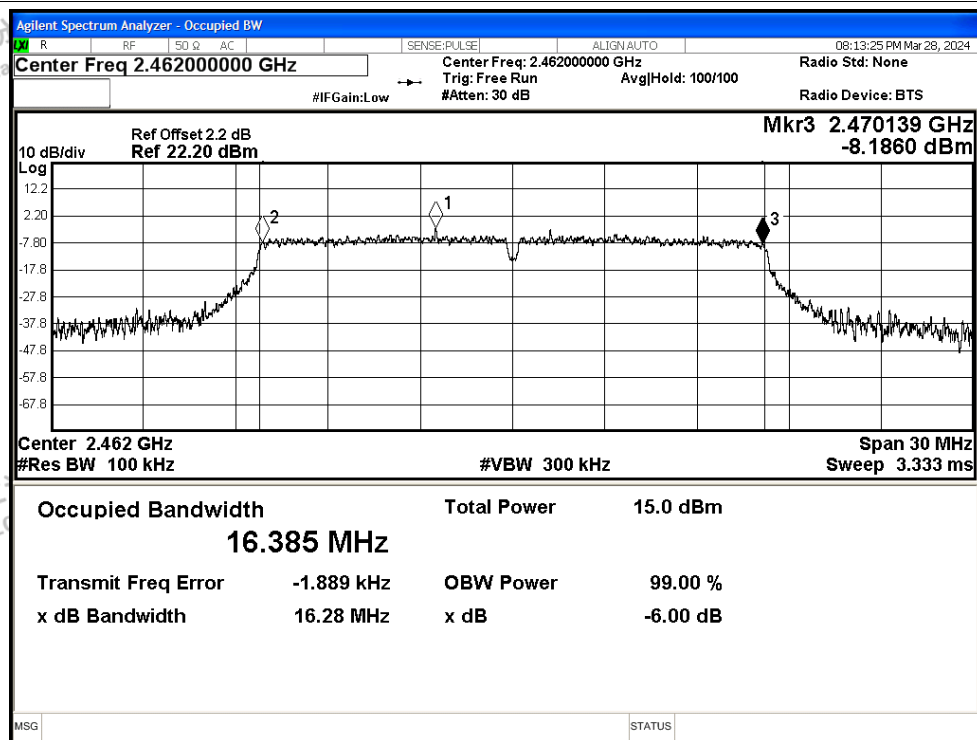
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-6dB Bandwidth NVNT g 2437MHz Ant2



-6dB Bandwidth NVNT g 2462MHz Ant2



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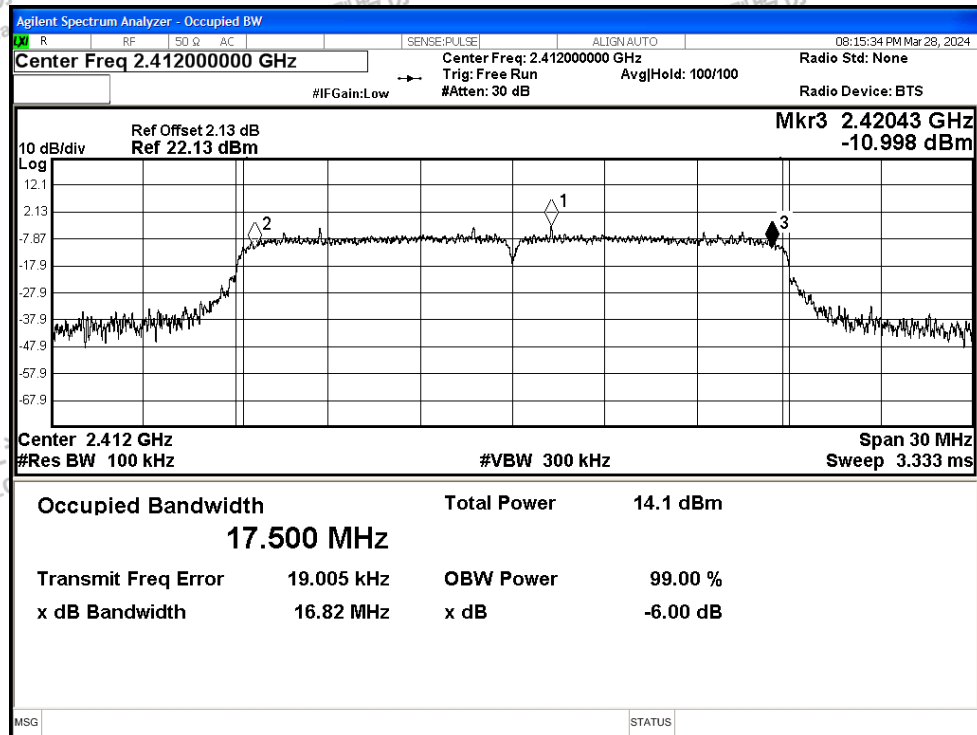
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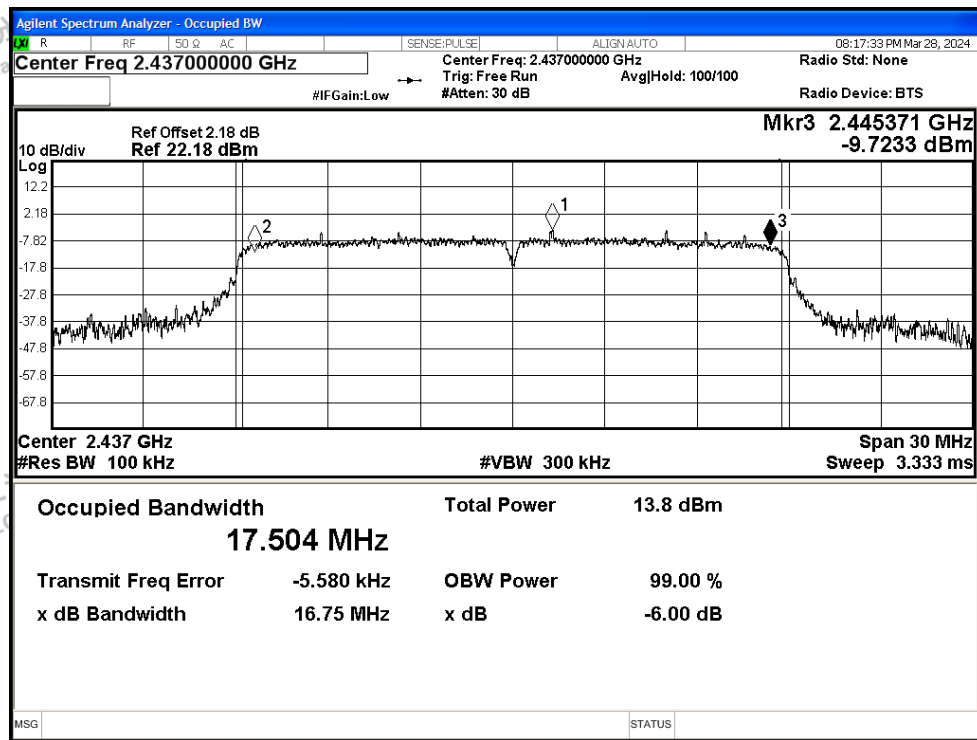
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-6dB Bandwidth NVNT n20 2412MHz Ant2



-6dB Bandwidth NVNT n20 2437MHz Ant2



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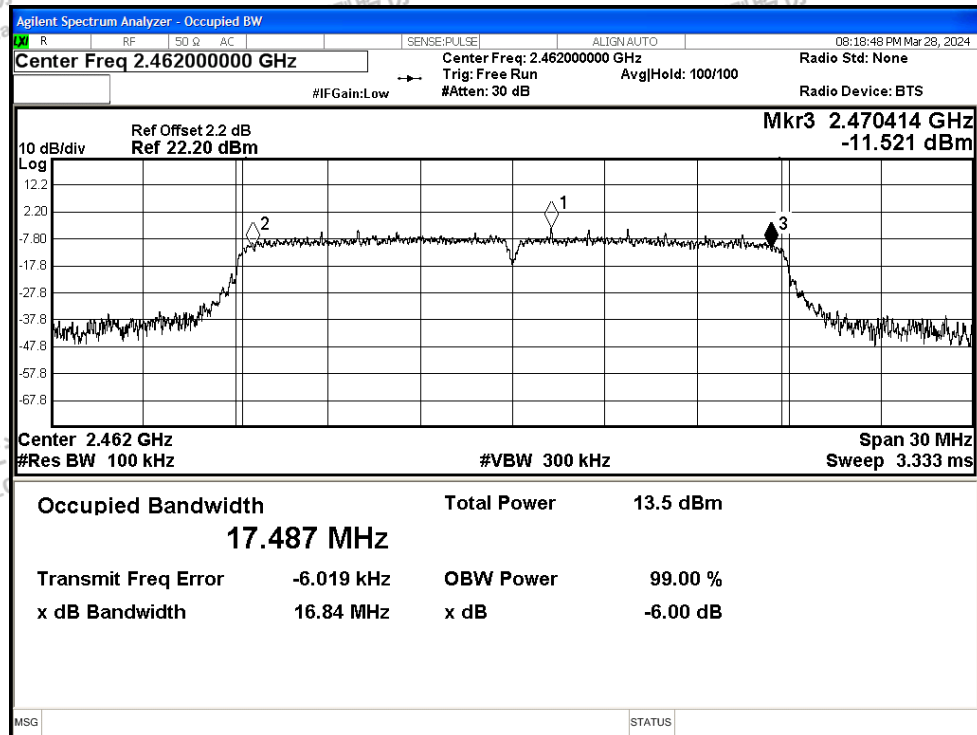
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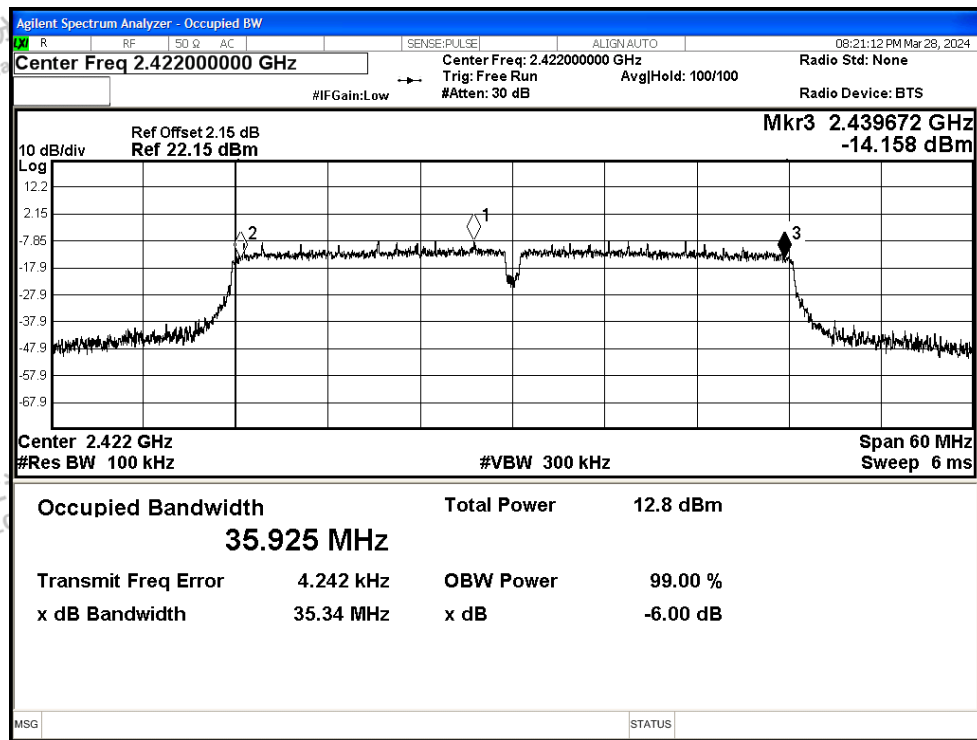
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-6dB Bandwidth NVNT n20 2462MHz Ant2



-6dB Bandwidth NVNT n40 2422MHz Ant2



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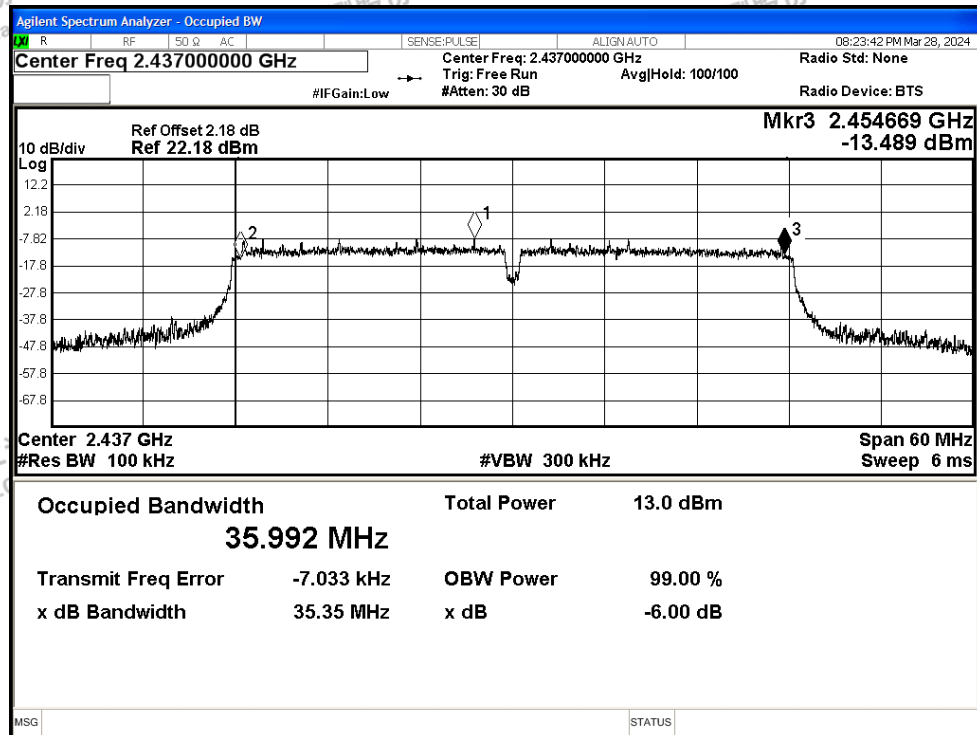
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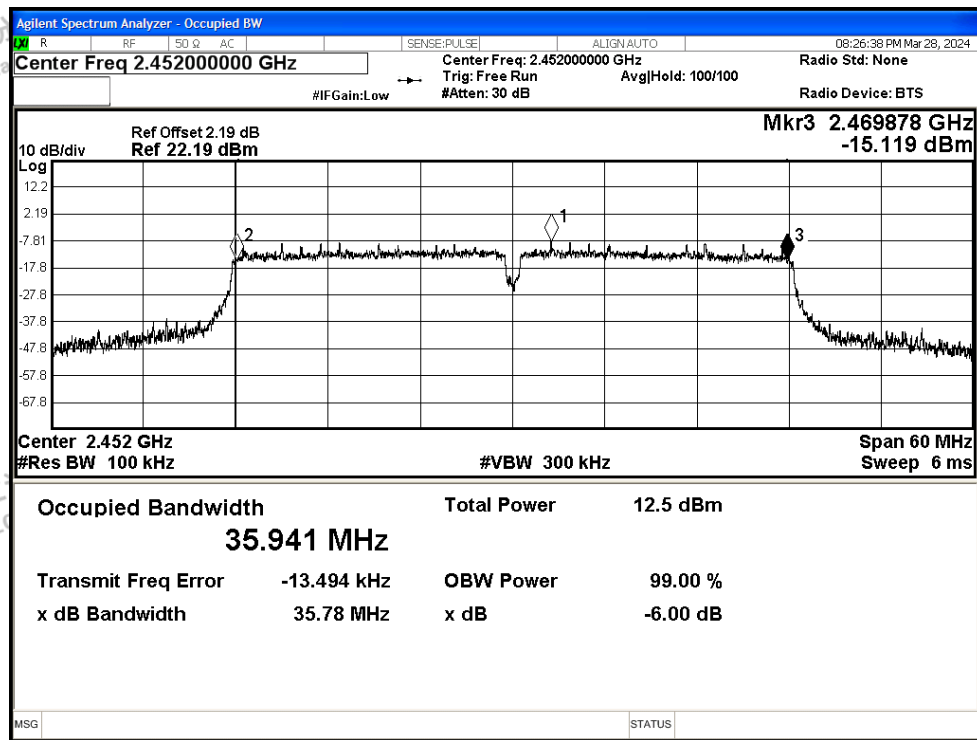
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-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



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C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.62	30	Pass
NVNT	b	2437	Ant1	15.41	30	Pass
NVNT	b	2462	Ant1	15.42	30	Pass
NVNT	g	2412	Ant1	14.25	30	Pass
NVNT	g	2437	Ant1	14.53	30	Pass
NVNT	g	2462	Ant1	14.53	30	Pass
NVNT	n20	2412	Ant1	13.22	30	Pass
NVNT	n20	2437	Ant1	13.62	30	Pass
NVNT	n20	2462	Ant1	13.61	30	Pass
NVNT	n40	2422	Ant1	12.15	30	Pass
NVNT	n40	2437	Ant1	12.14	30	Pass
NVNT	n40	2452	Ant1	12.14	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	14.51	30	Pass
NVNT	b	2437	Ant2	14.09	30	Pass
NVNT	b	2462	Ant2	14.85	30	Pass
NVNT	g	2412	Ant2	13.49	30	Pass
NVNT	g	2437	Ant2	13.18	30	Pass
NVNT	g	2462	Ant2	13.86	30	Pass
NVNT	n20	2412	Ant2	12.67	30	Pass
NVNT	n20	2437	Ant2	12.4	30	Pass
NVNT	n20	2462	Ant2	12.12	30	Pass
NVNT	n40	2422	Ant2	11.23	30	Pass
NVNT	n40	2437	Ant2	11.33	30	Pass
NVNT	n40	2452	Ant2	10.86	30	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	13.22	12.67	15.96	30	Pass
NVNT	n20	2437	13.62	12.4	16.06	30	Pass
NVNT	n20	2462	13.61	12.12	15.94	30	Pass
NVNT	n40	2422	12.15	11.23	14.72	30	Pass
NVNT	n40	2437	12.14	11.33	14.76	30	Pass
NVNT	n40	2452	12.14	10.86	14.56	30	Pass



C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.59	8	Pass
NVNT	b	2437	Ant1	-11.18	8	Pass
NVNT	b	2462	Ant1	-10.82	8	Pass
NVNT	g	2412	Ant1	-17.41	8	Pass
NVNT	g	2437	Ant1	-16.92	8	Pass
NVNT	g	2462	Ant1	-15.9	8	Pass
NVNT	n20	2412	Ant1	-17.95	8	Pass
NVNT	n20	2437	Ant1	-17.91	8	Pass
NVNT	n20	2462	Ant1	-17.32	8	Pass
NVNT	n40	2422	Ant1	-21.44	8	Pass
NVNT	n40	2437	Ant1	-20.25	8	Pass
NVNT	n40	2452	Ant1	-19.13	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant2	-10.74	8	Pass
NVNT	b	2437	Ant2	-10.35	8	Pass
NVNT	b	2462	Ant2	-9.25	8	Pass
NVNT	g	2412	Ant2	-17.27	8	Pass
NVNT	g	2437	Ant2	-17.43	8	Pass
NVNT	g	2462	Ant2	-16.75	8	Pass
NVNT	n20	2412	Ant2	-17.96	8	Pass
NVNT	n20	2437	Ant2	-19.07	8	Pass
NVNT	n20	2462	Ant2	-17.42	8	Pass
NVNT	n40	2422	Ant2	-22.26	8	Pass
NVNT	n40	2437	Ant2	-21.96	8	Pass
NVNT	n40	2452	Ant2	-22.93	8	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	-17.95	-17.96	-14.94	8	Pass
NVNT	n20	2437	-17.91	-19.07	-15.44	8	Pass
NVNT	n20	2462	-17.32	-17.42	-14.36	8	Pass
NVNT	n40	2422	-21.44	-22.26	-18.82	8	Pass
NVNT	n40	2437	-20.25	-21.96	-18.01	8	Pass
NVNT	n40	2452	-19.13	-22.93	-17.62	8	Pass



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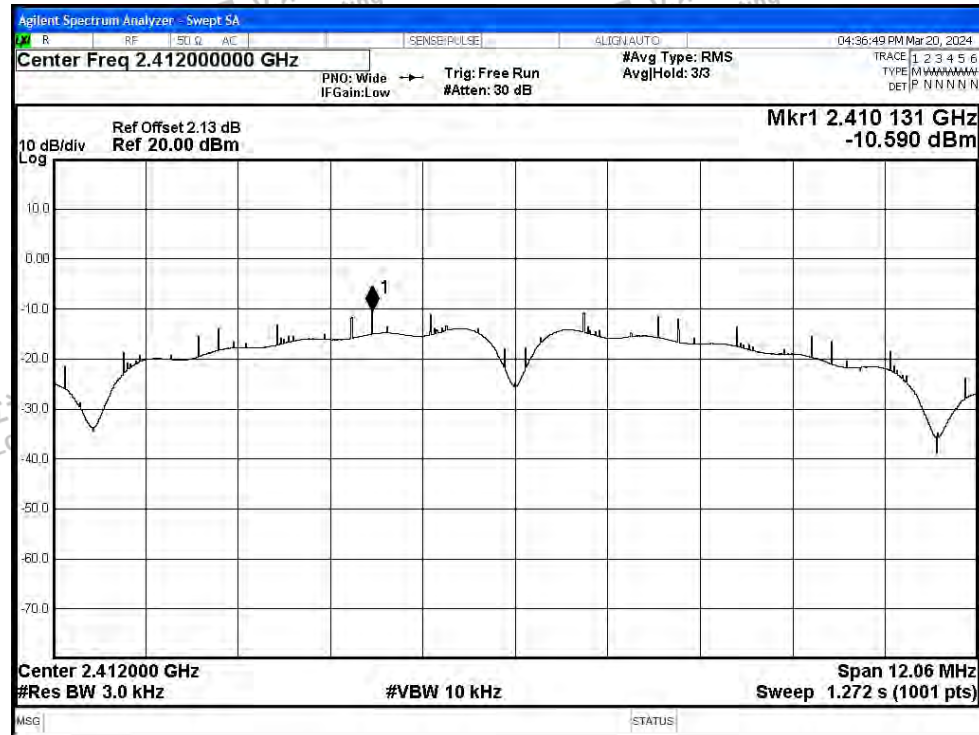
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Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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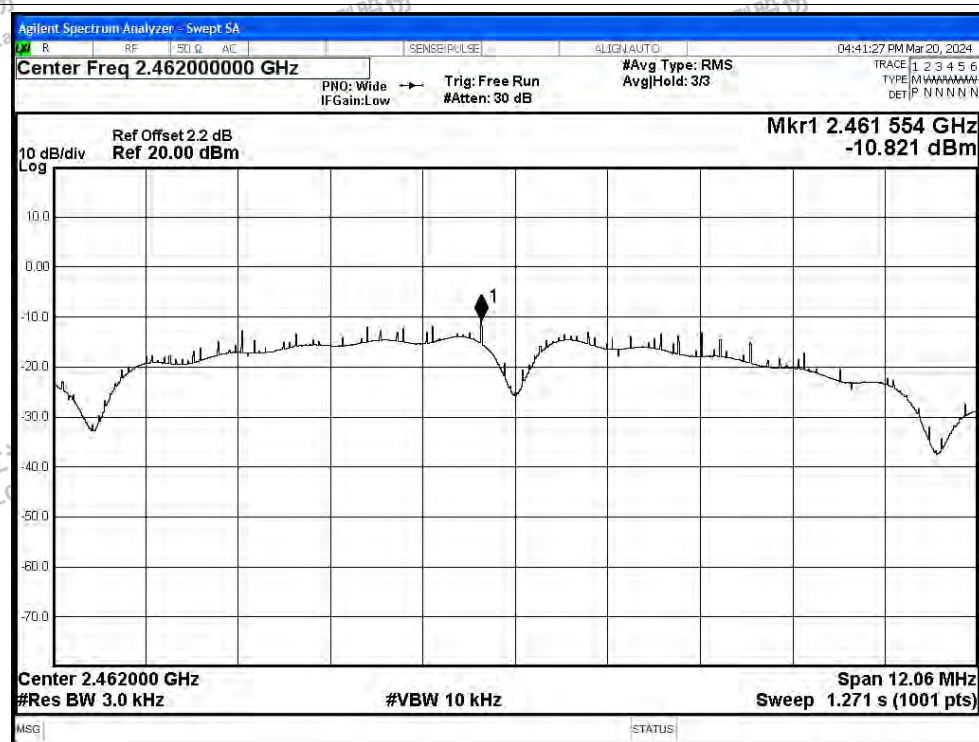
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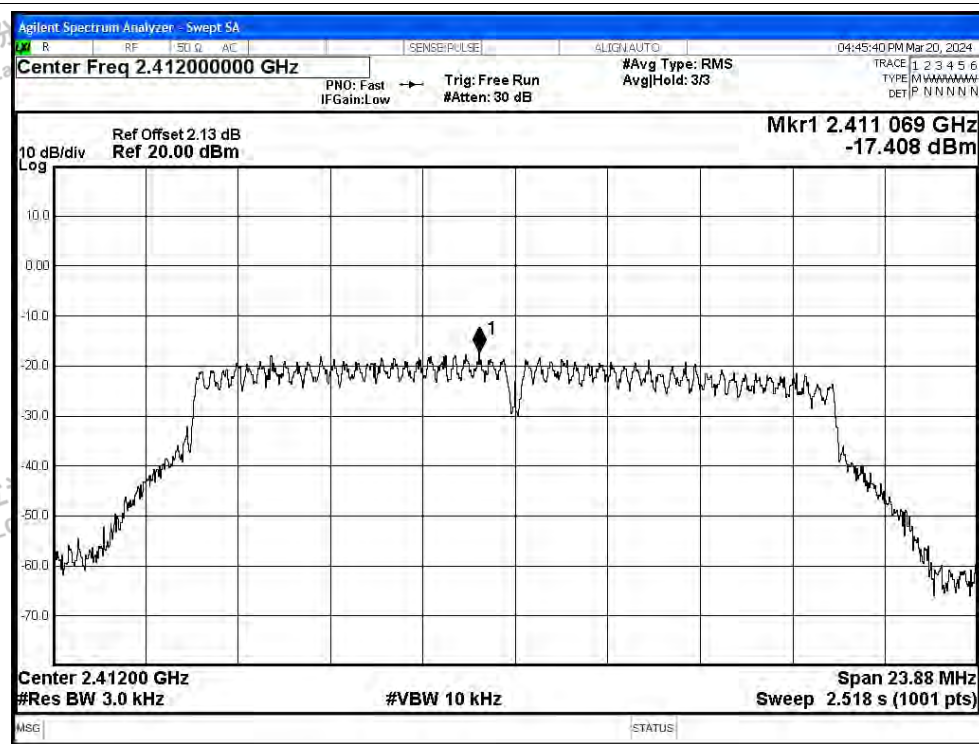
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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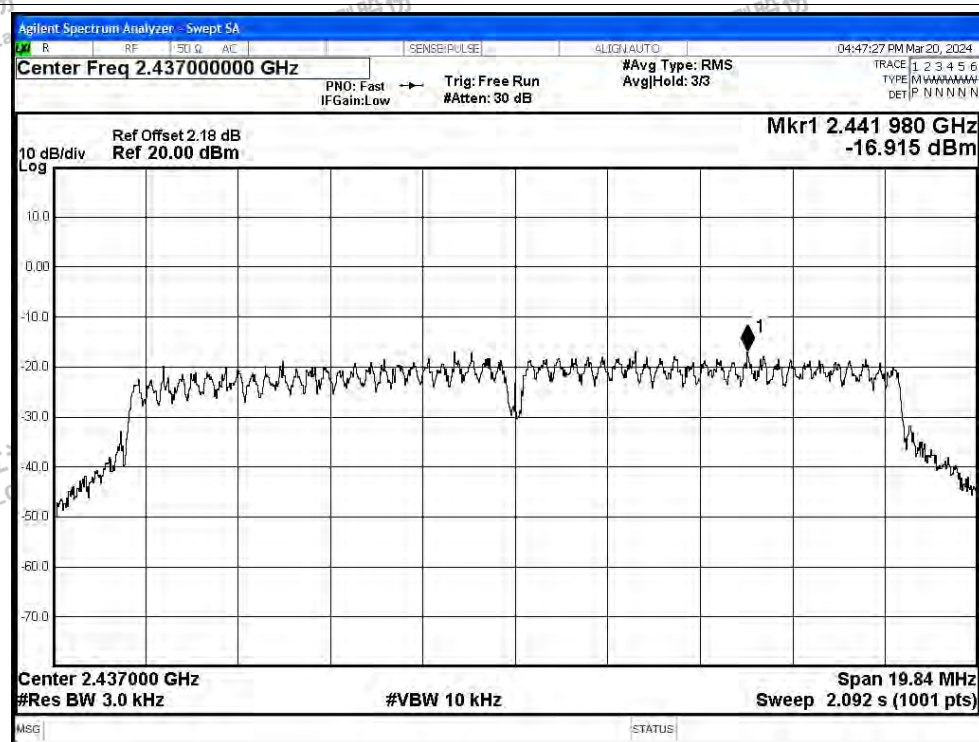
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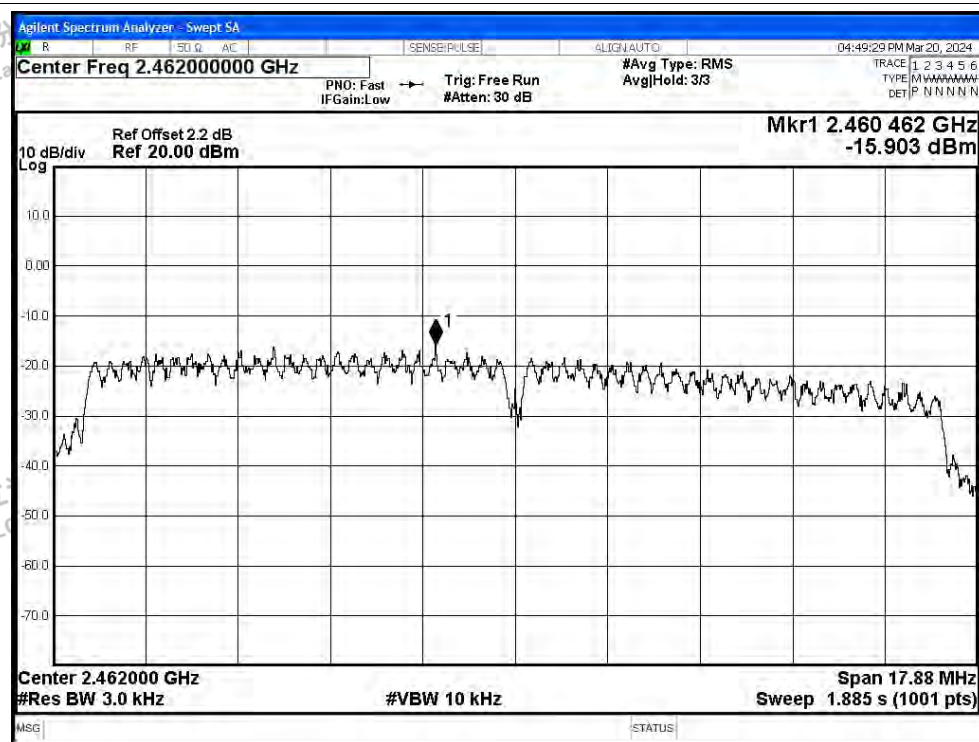
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

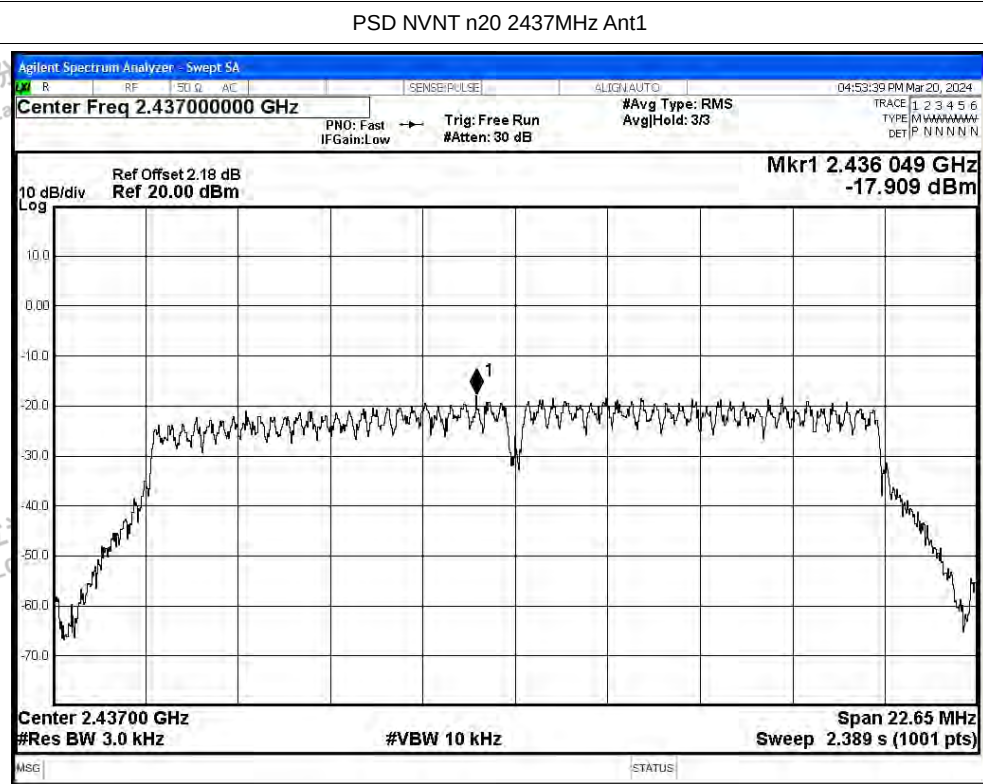
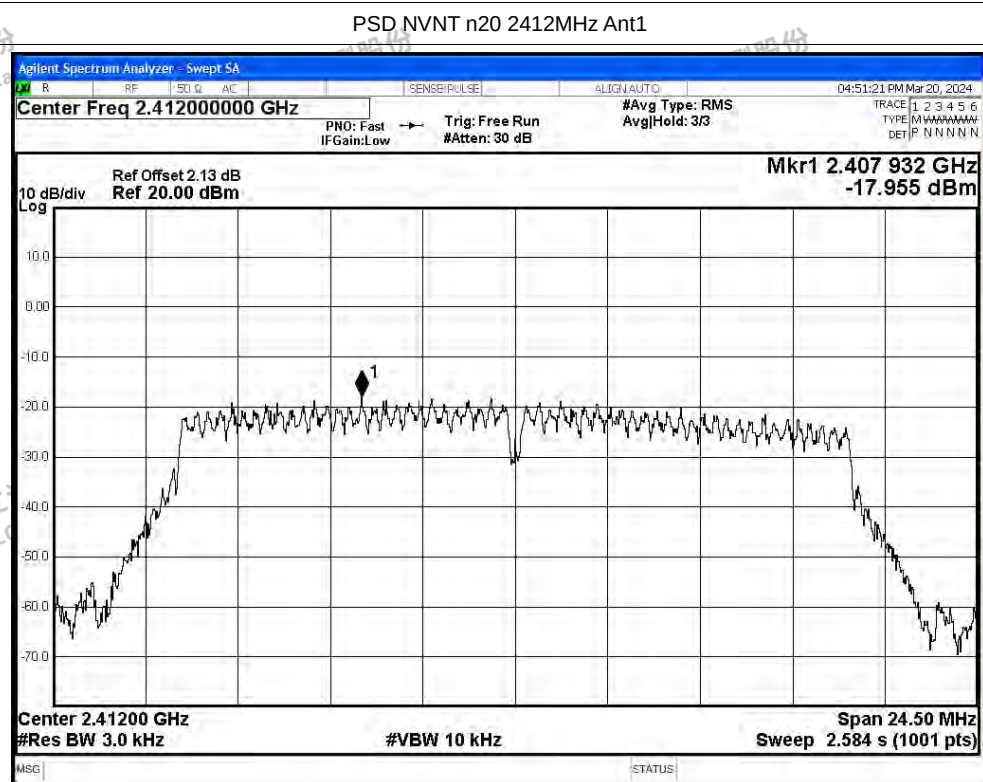


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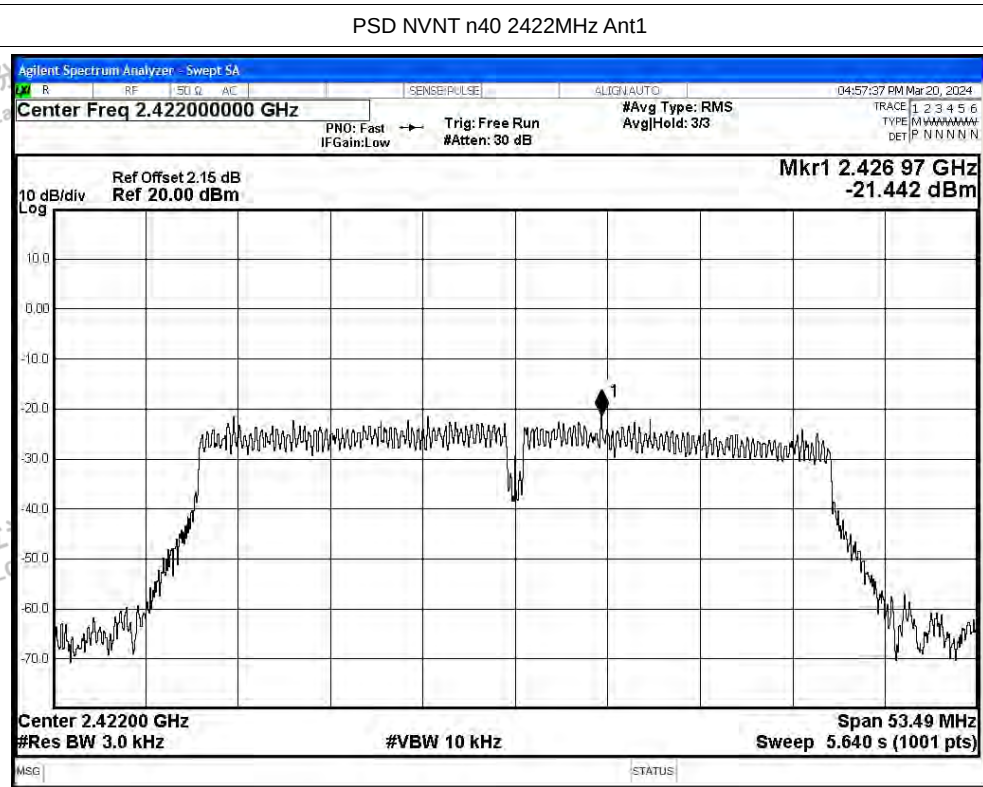
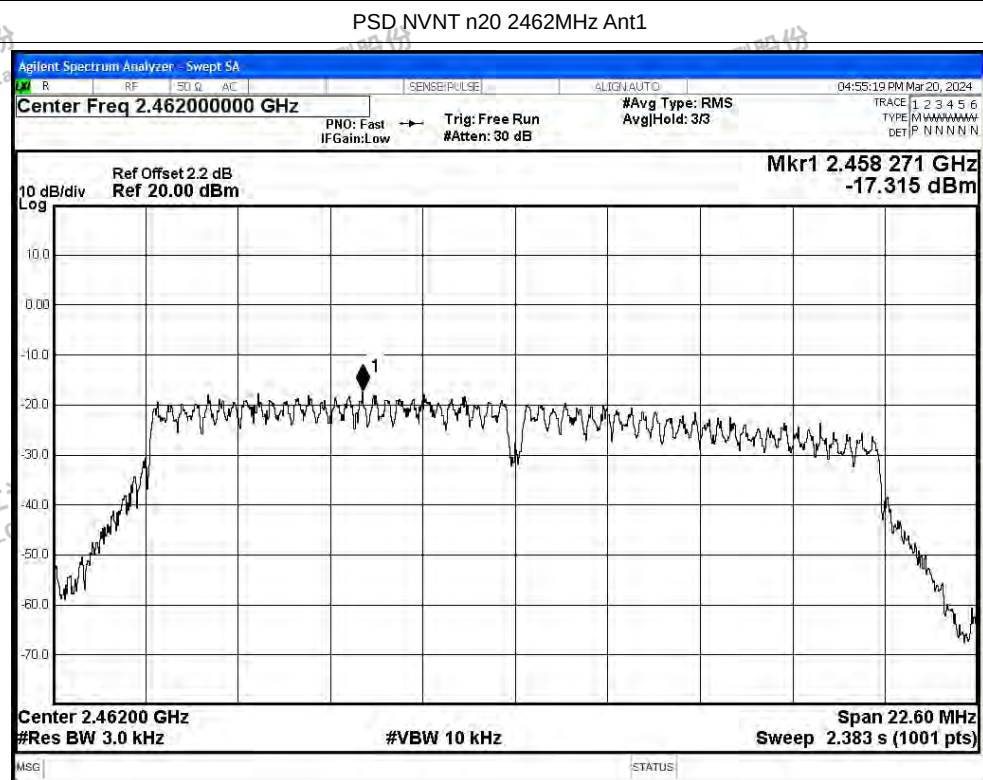


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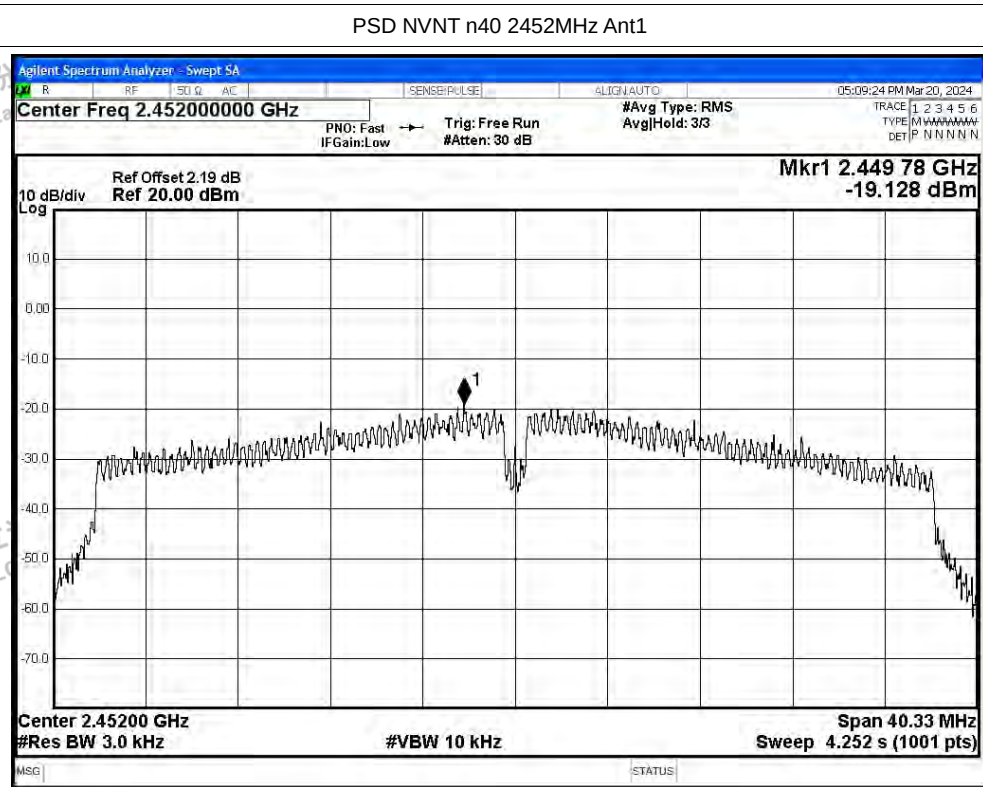
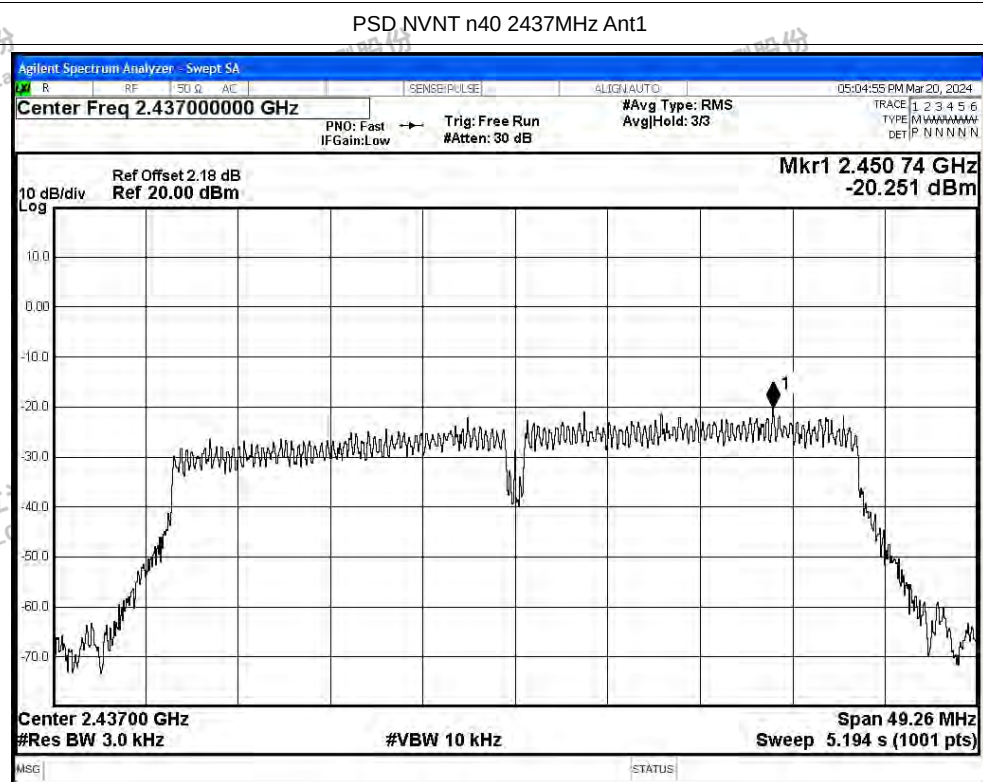


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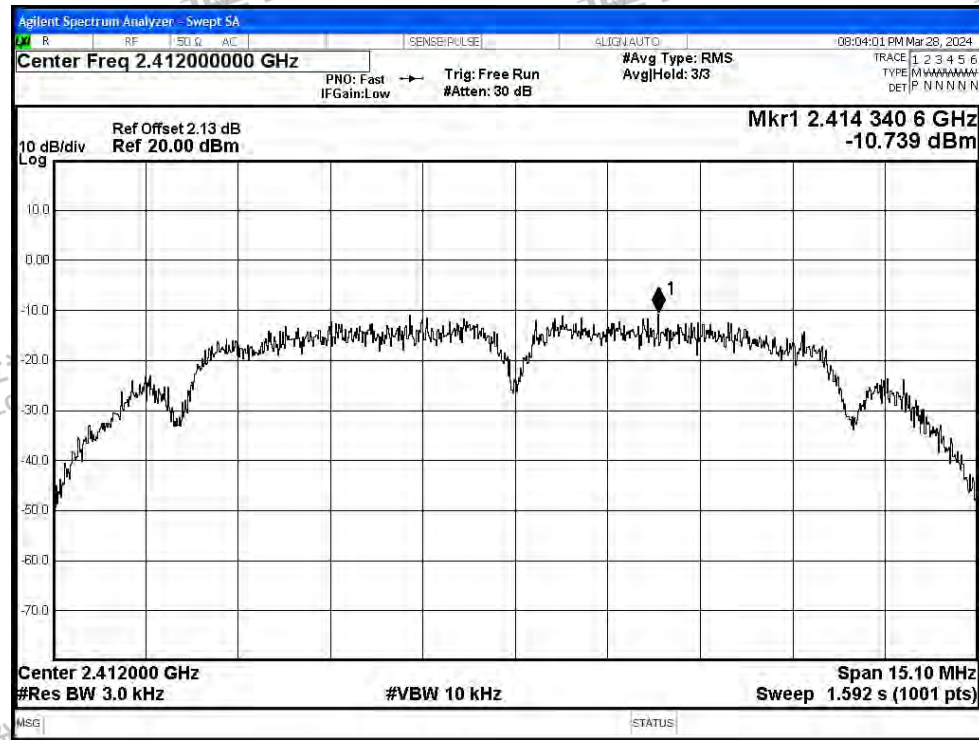
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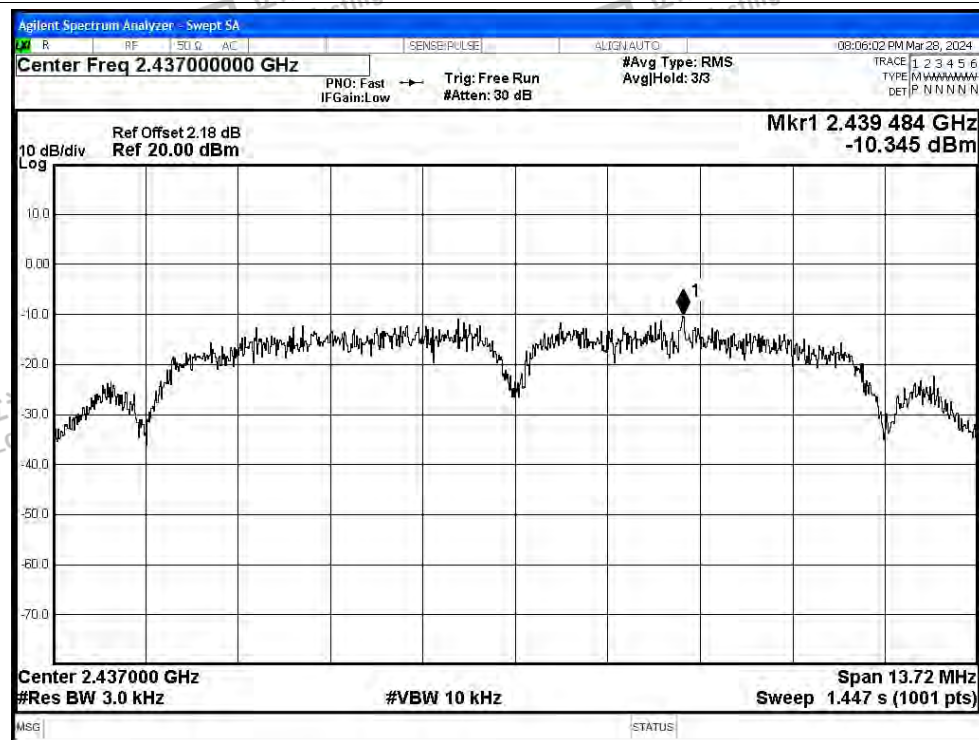


Test Graphs

PSD NVNT b 2412MHz Ant2



PSD NVNT b 2437MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

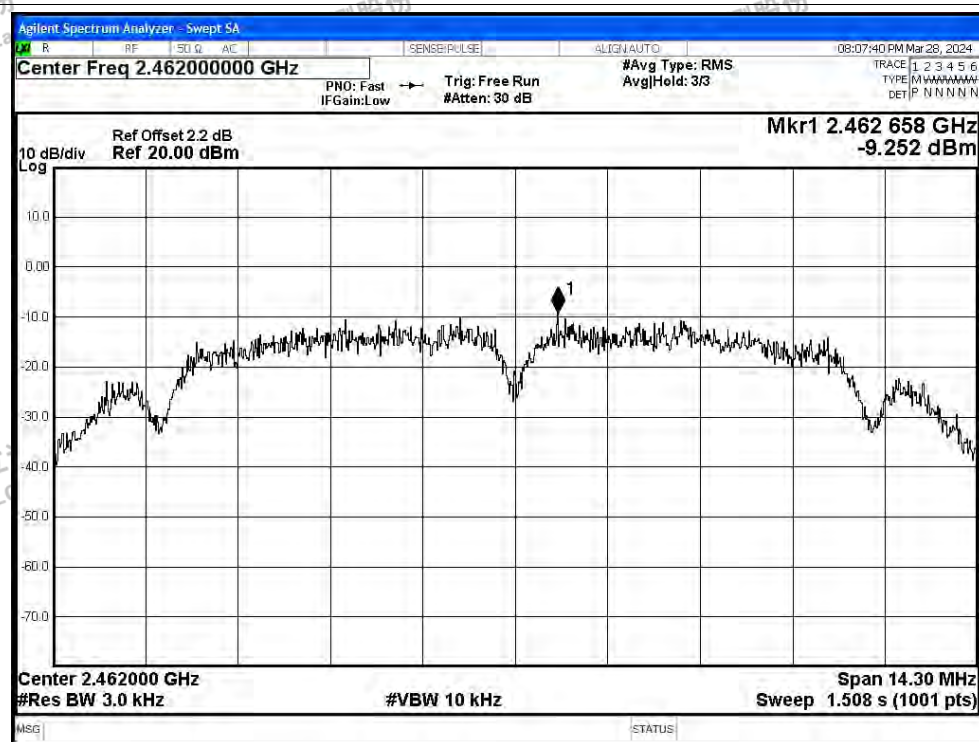
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

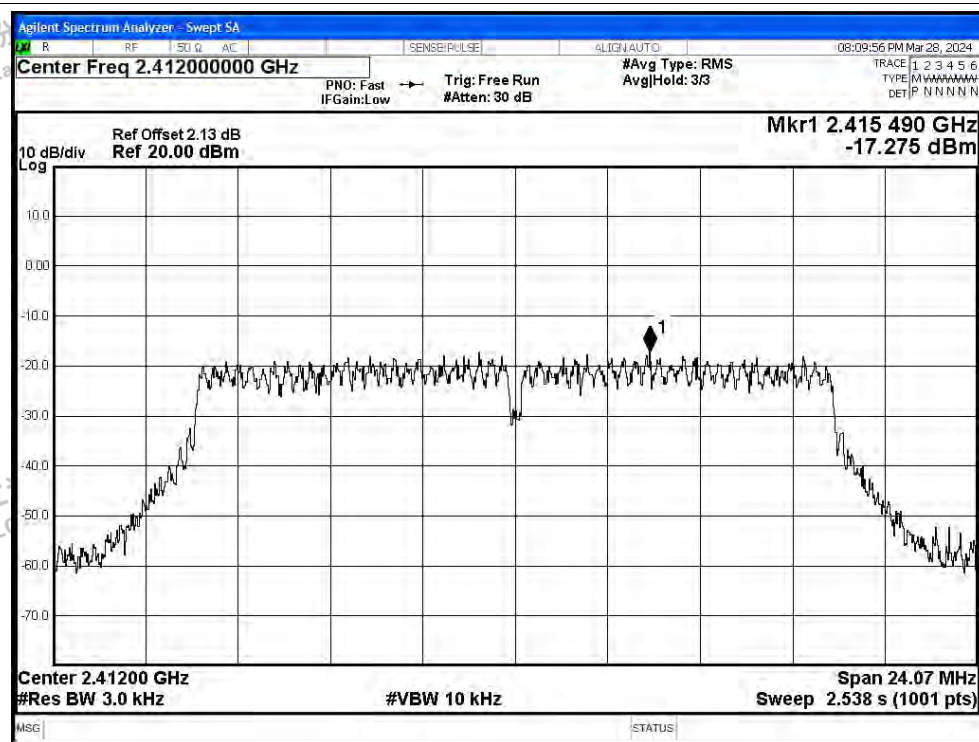
Scan code to check authenticity



PSD NVNT b 2462MHz Ant2



PSD NVNT g 2412MHz Ant2



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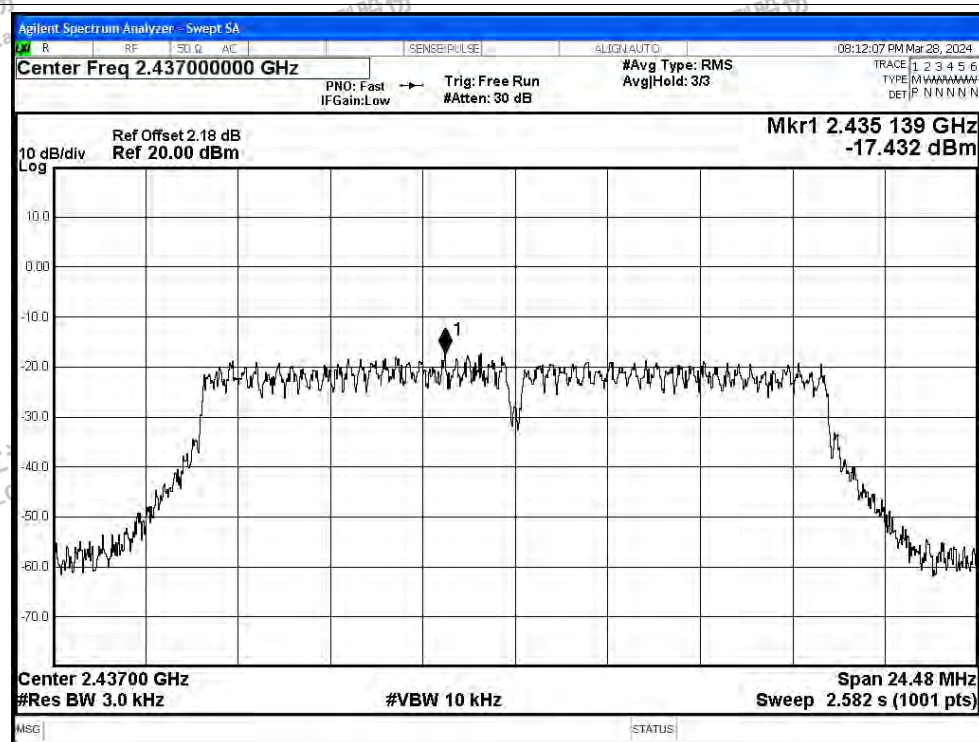
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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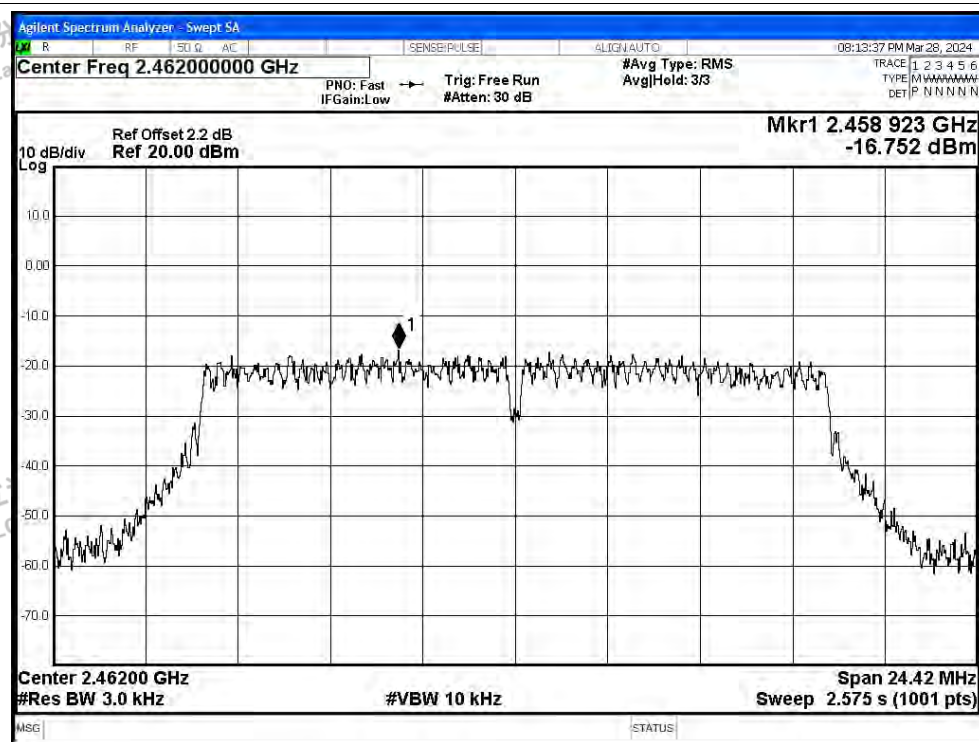
Scan code to check authenticity



PSD NVNT g 2437MHz Ant2



PSD NVNT g 2462MHz Ant2

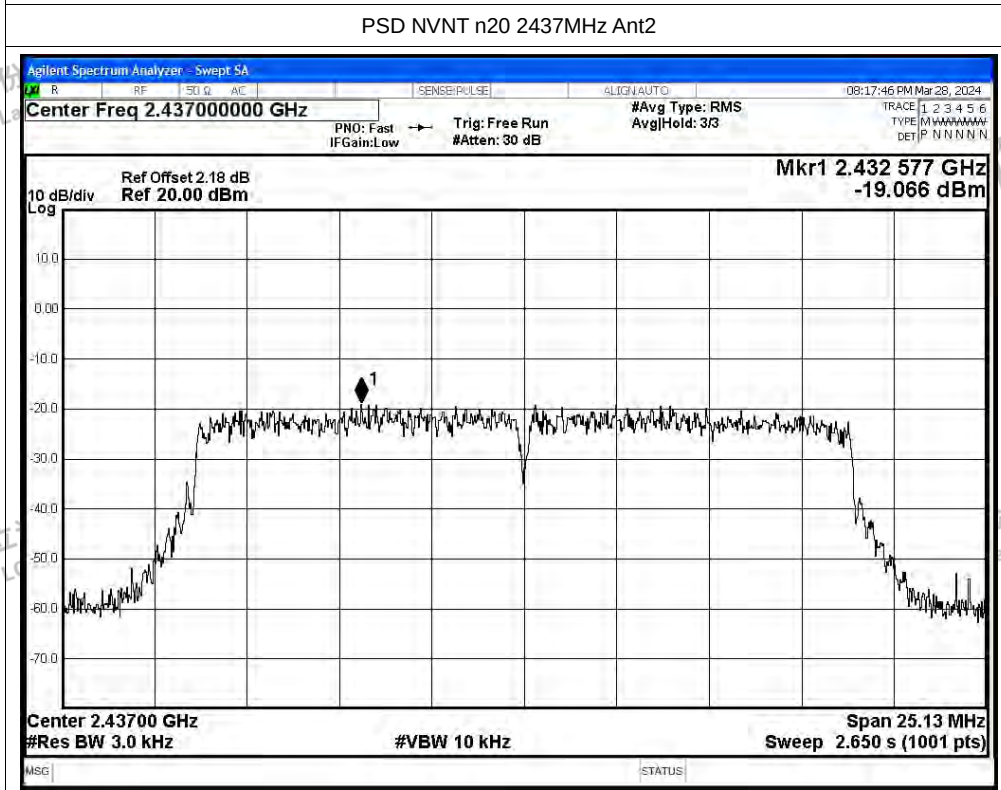
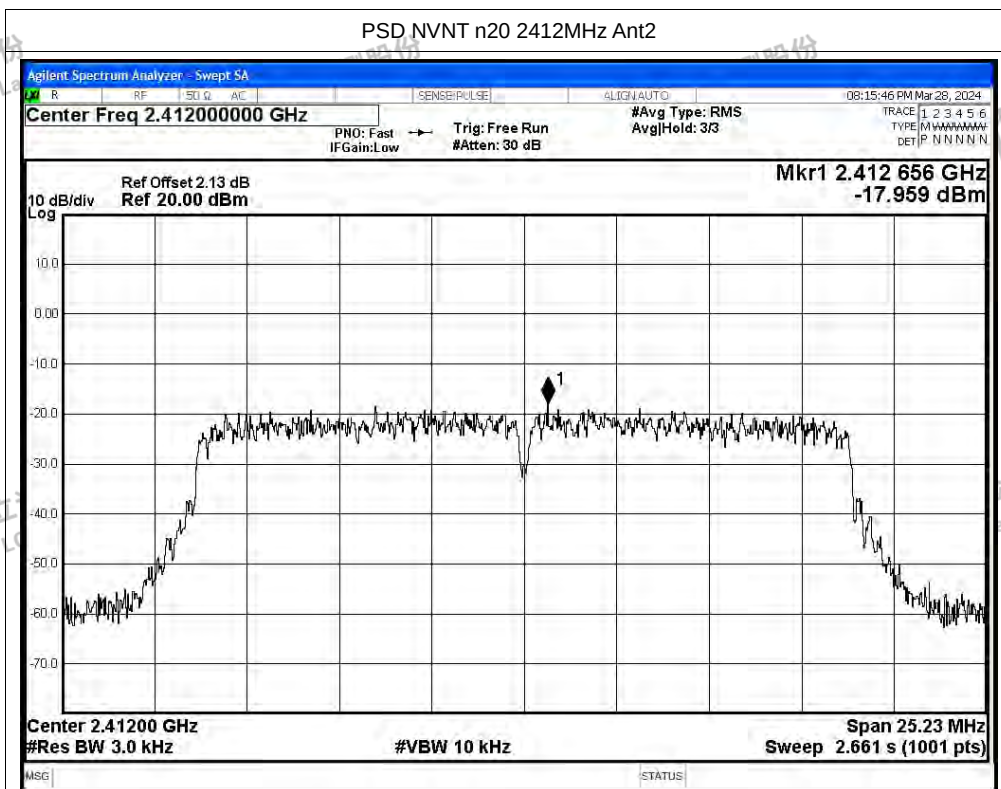


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Scan code to check authenticity

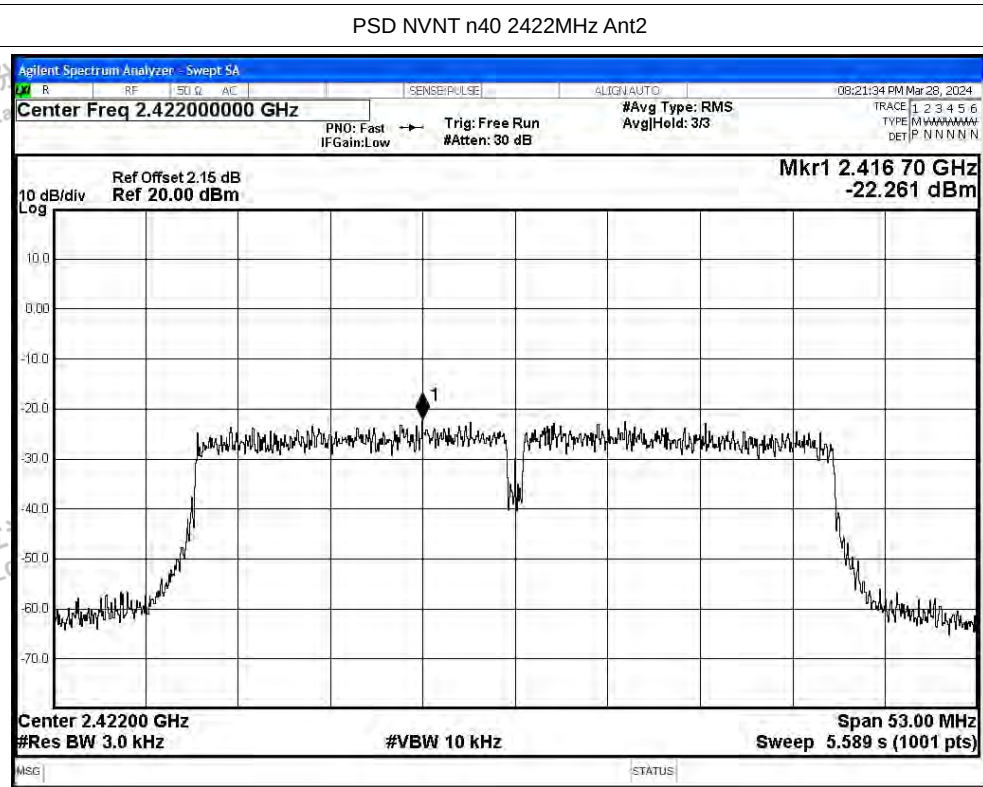
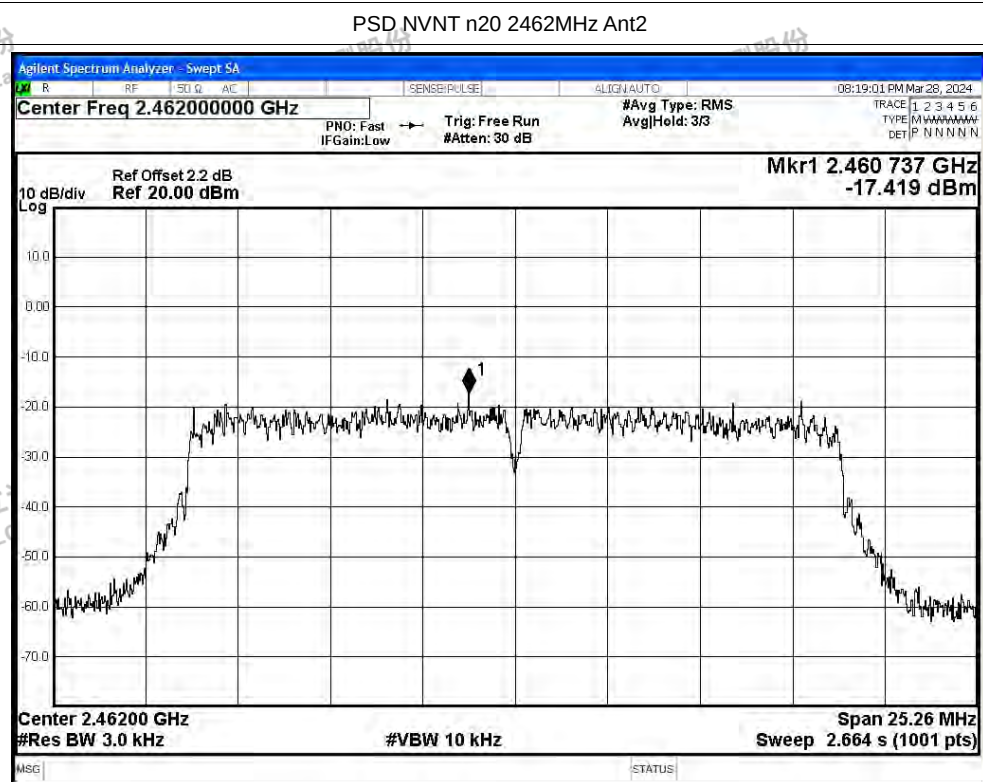


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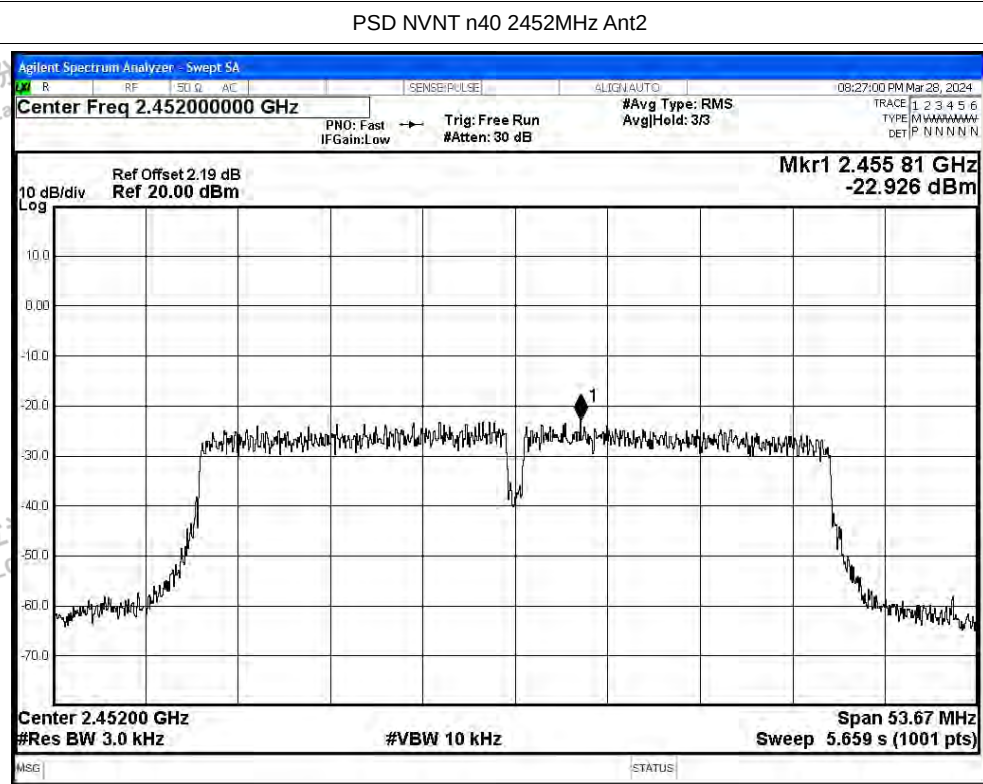
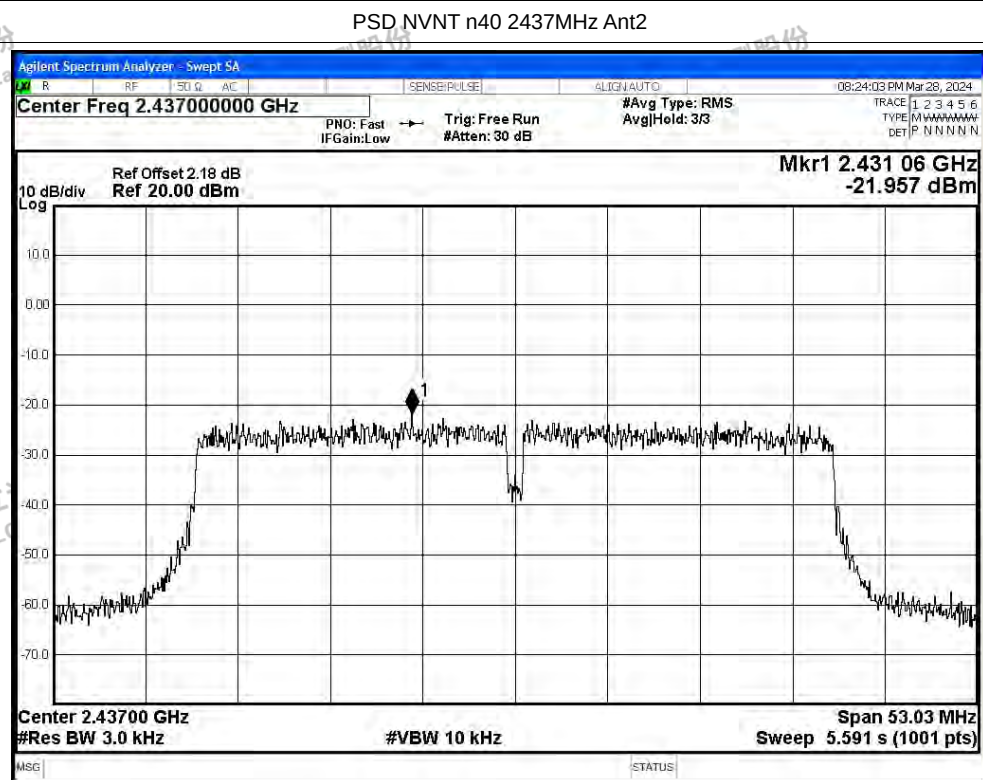


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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.68	-20	Pass
NVNT	b	2462	Ant1	-58.24	-20	Pass
NVNT	g	2412	Ant1	-36.54	-20	Pass
NVNT	g	2462	Ant1	-50.52	-20	Pass
NVNT	n20	2412	Ant1	-40.93	-20	Pass
NVNT	n20	2462	Ant1	-50.07	-20	Pass
NVNT	n40	2422	Ant1	-39.13	-20	Pass
NVNT	n40	2452	Ant1	-50.33	-20	Pass



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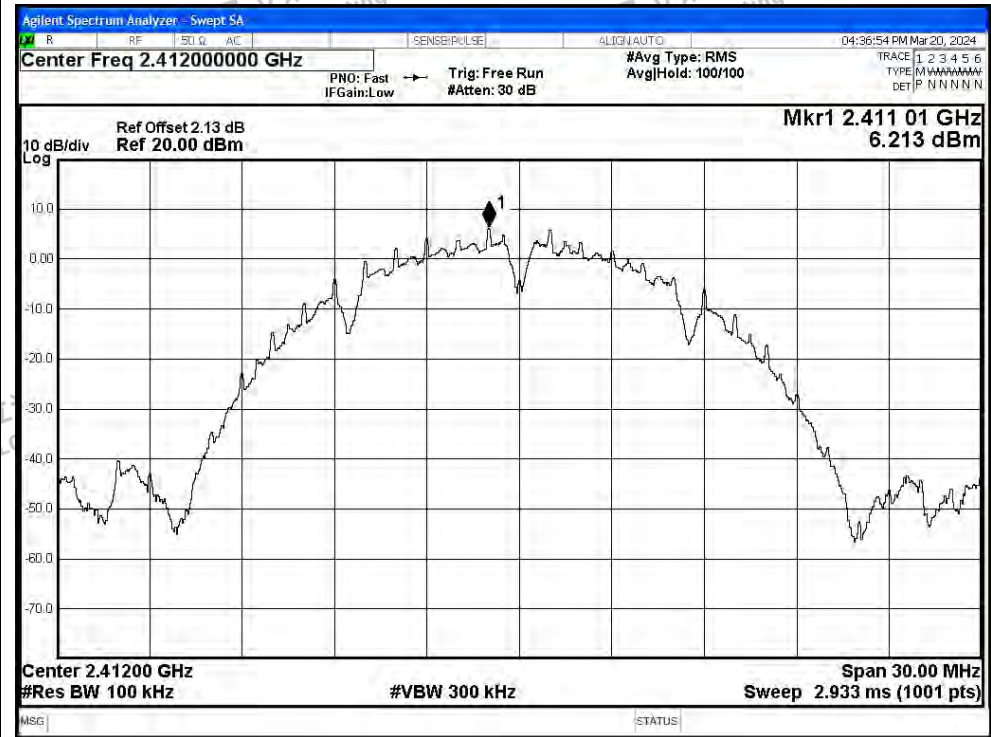
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

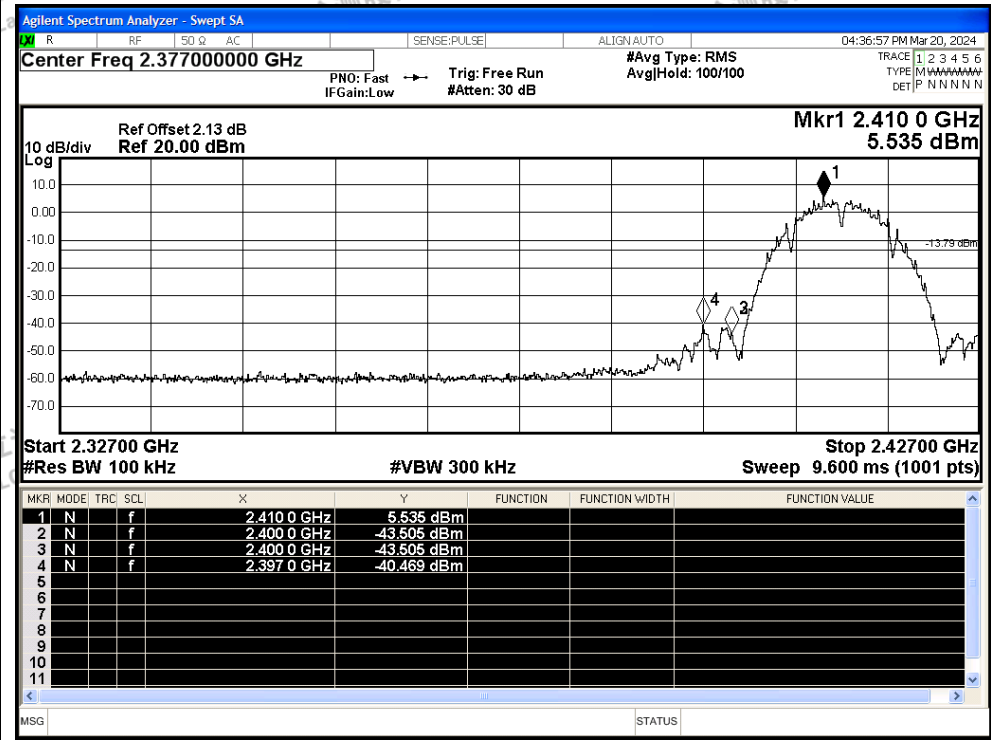


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

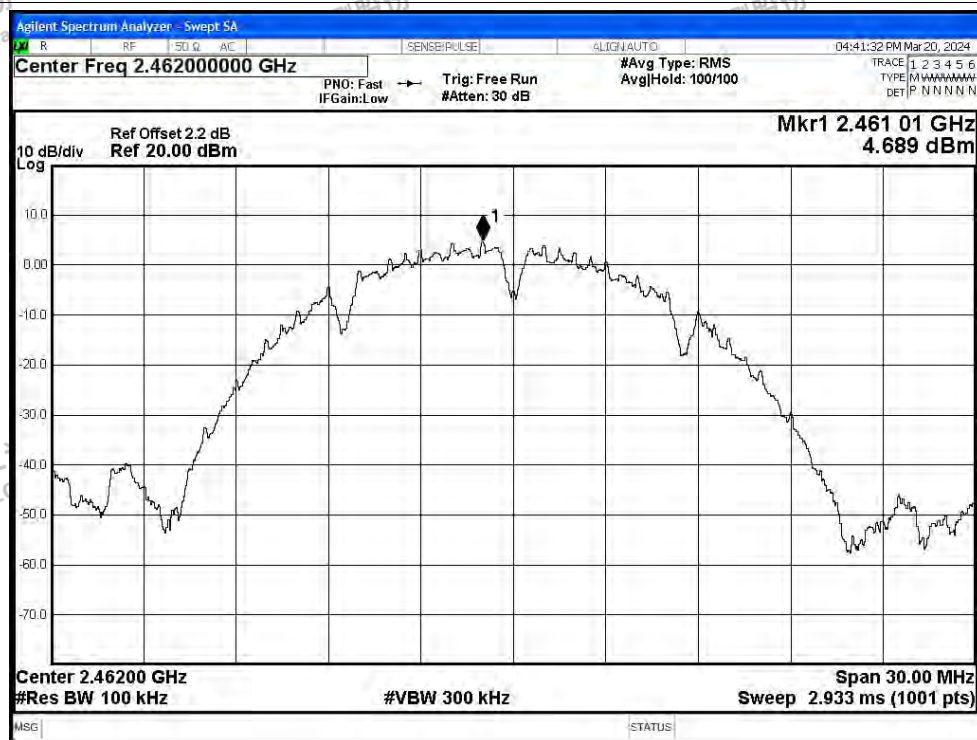


Band Edge NVNT b 2412MHz Ant1 Emission

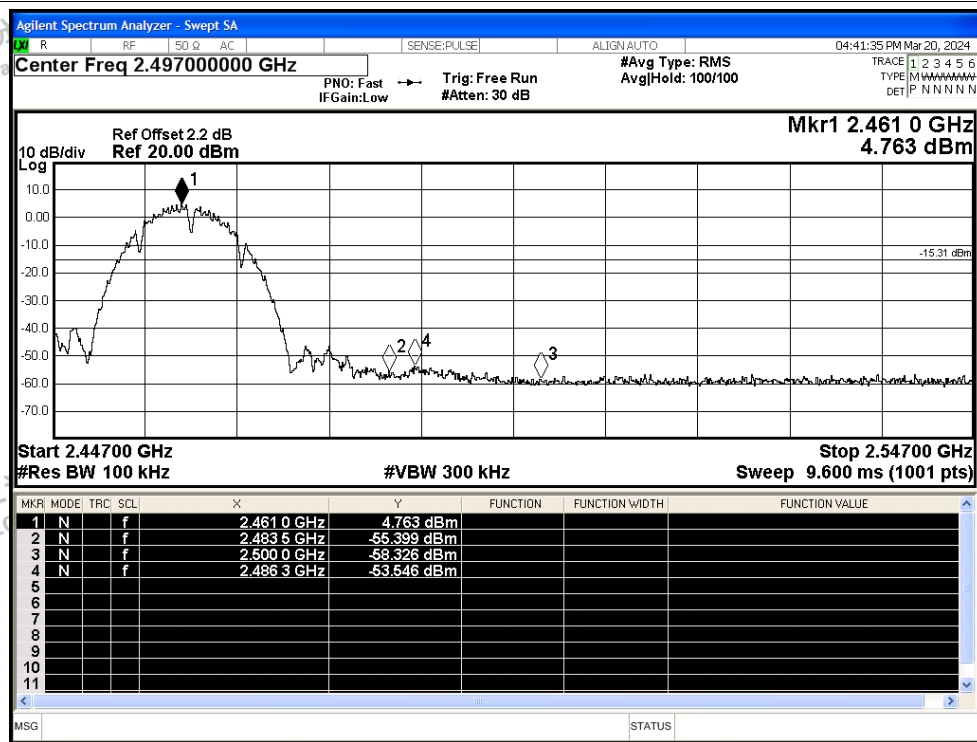




Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

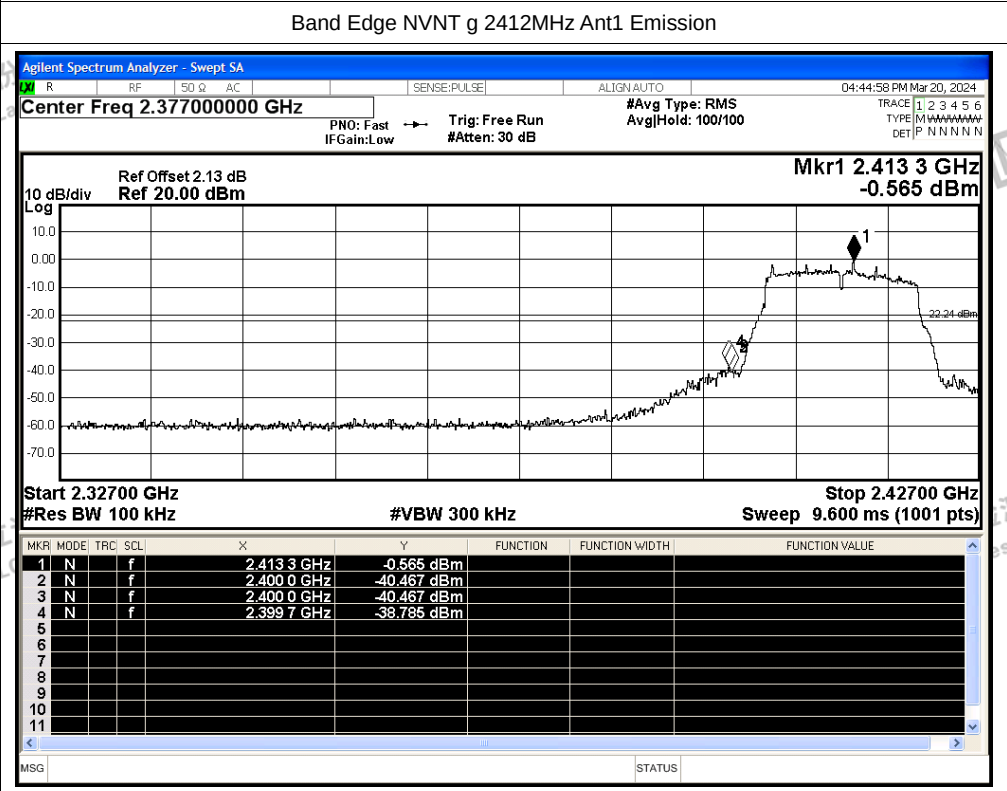
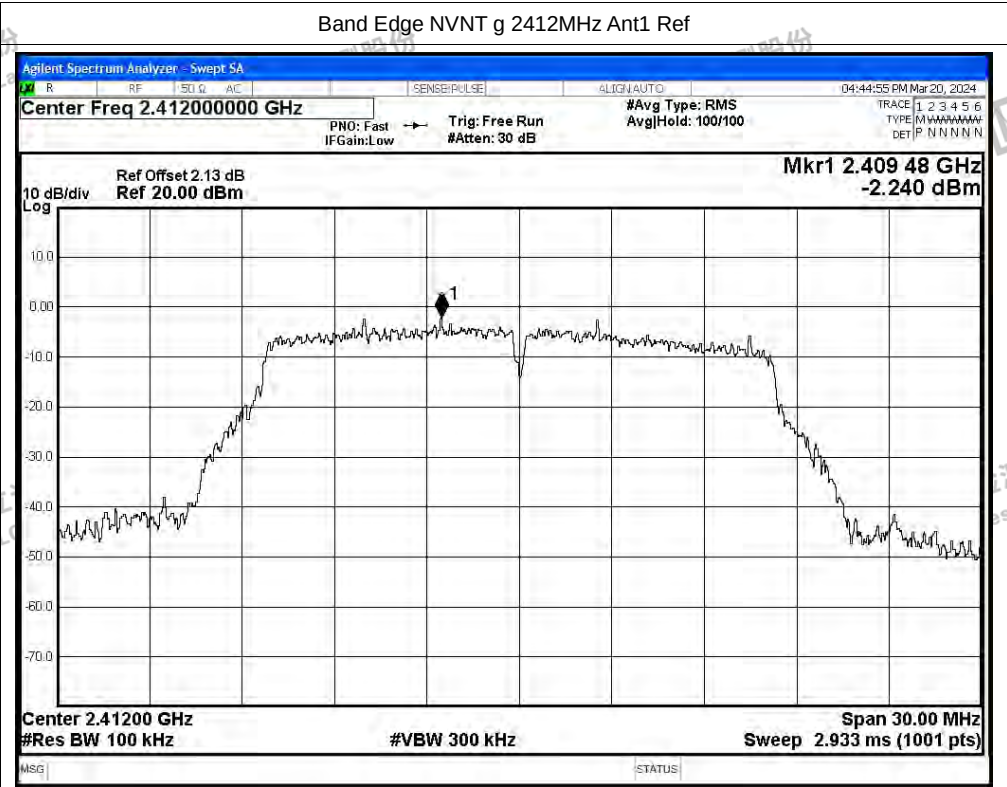


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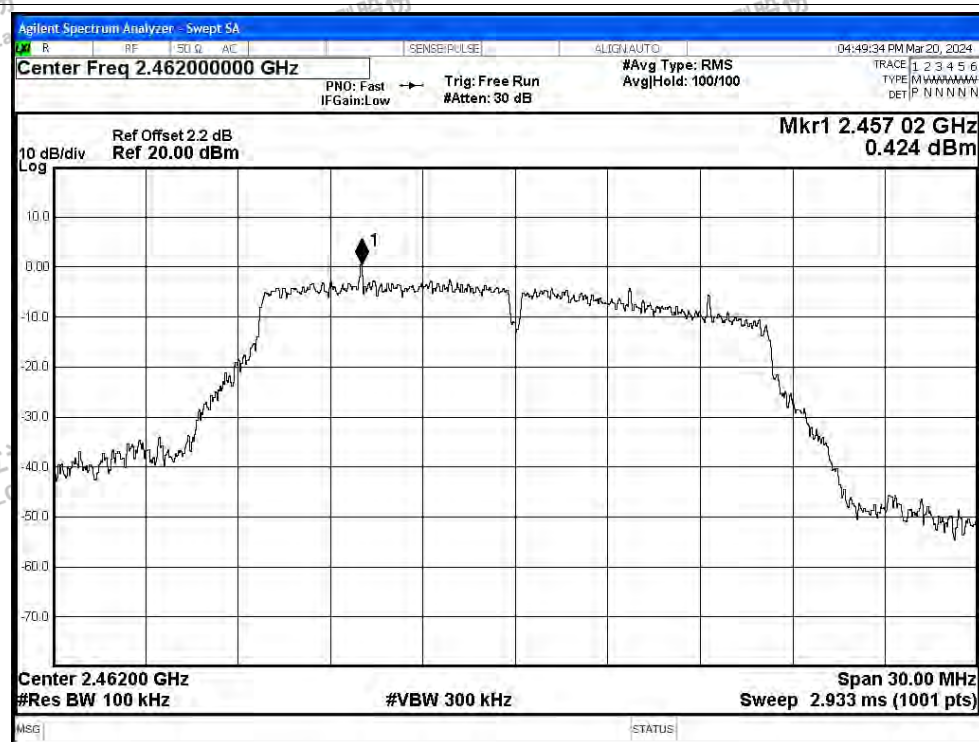
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

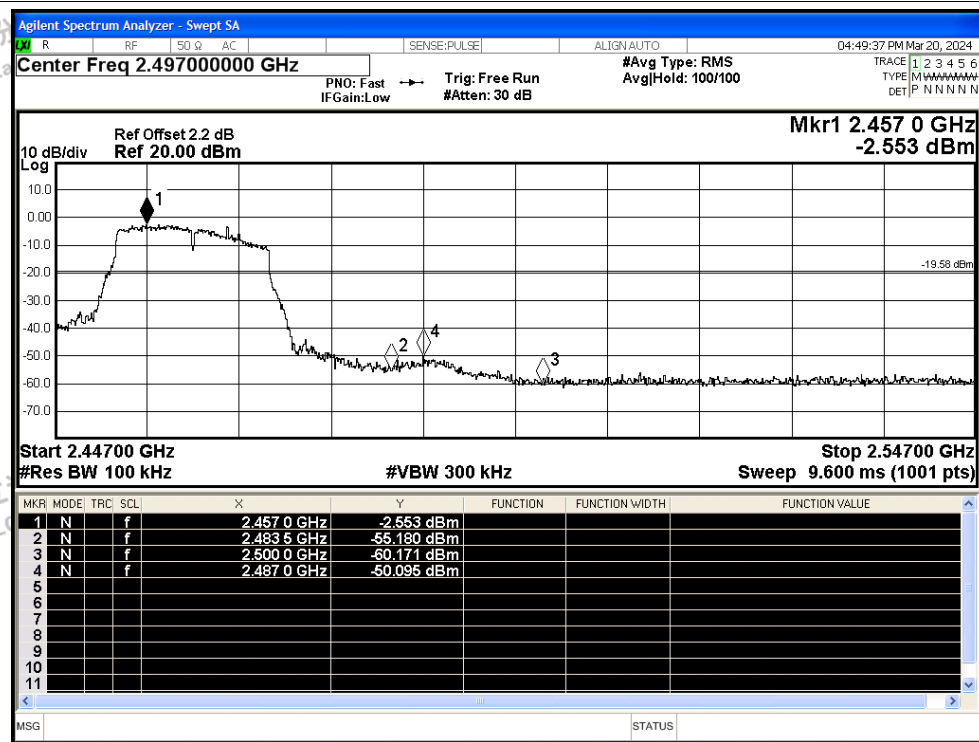




Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

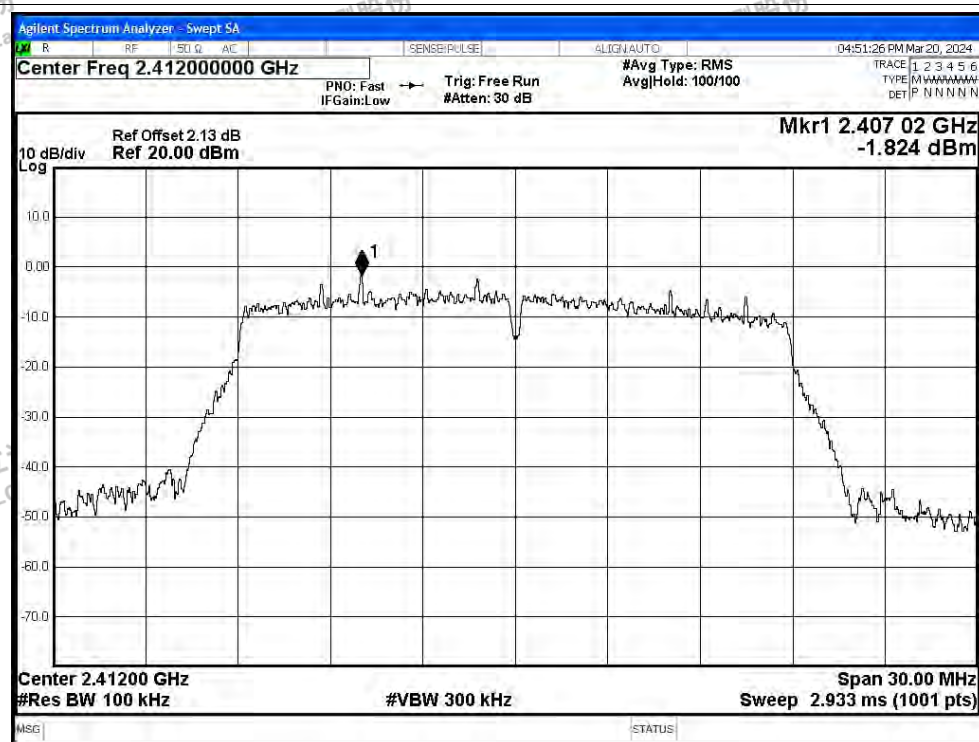
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

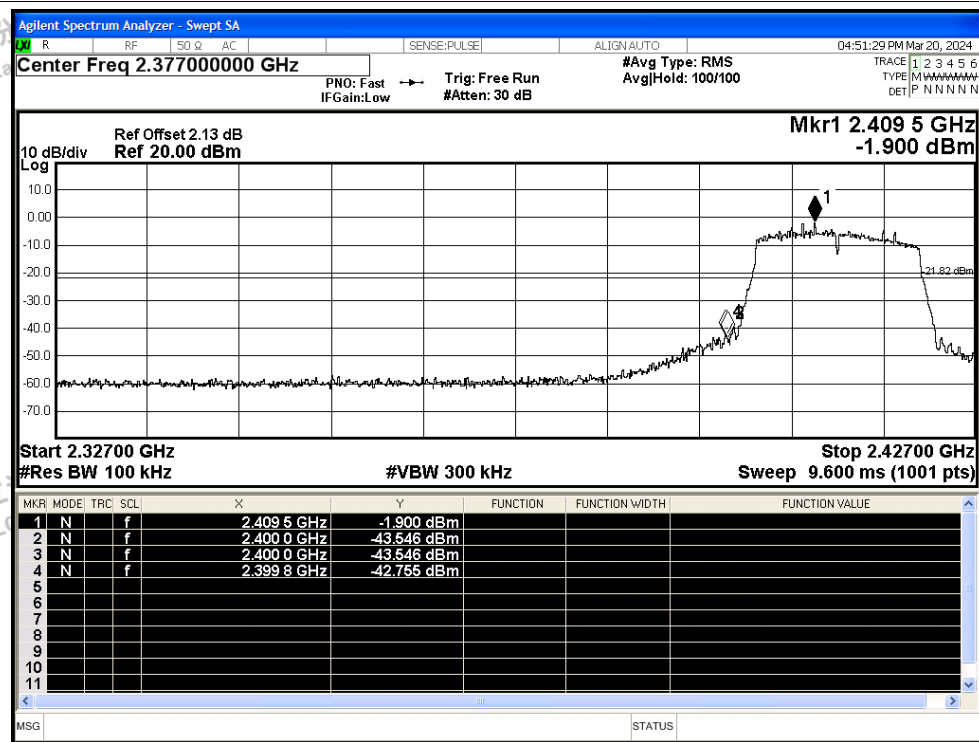
Scan code to check authenticity



Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission

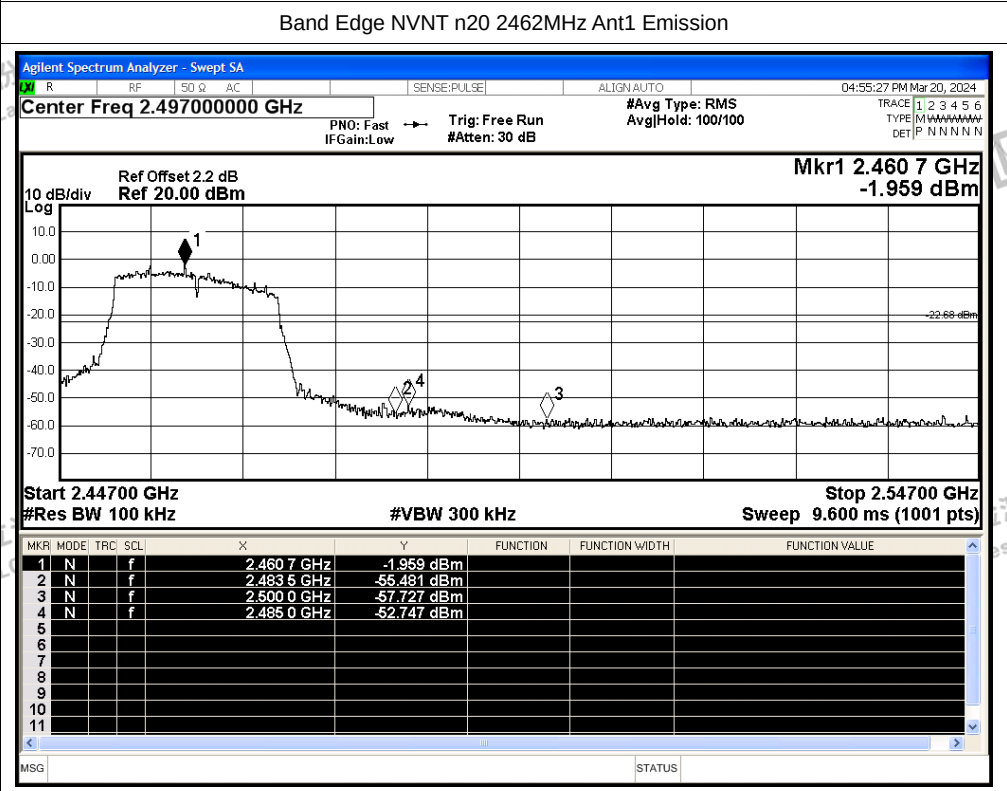
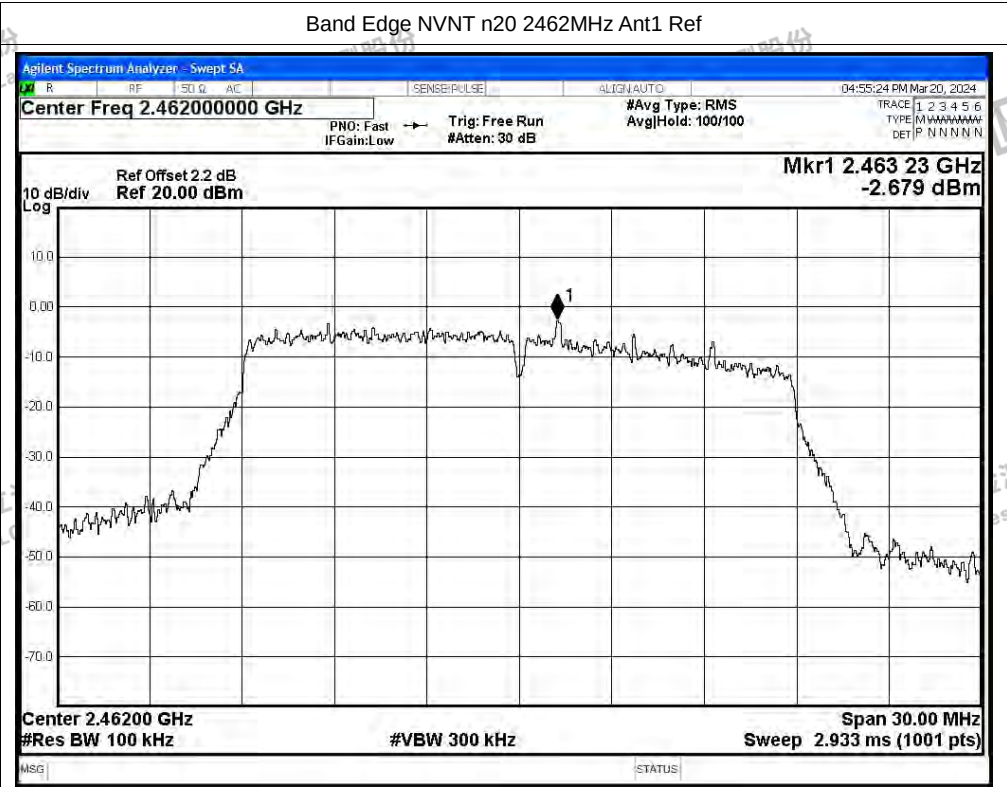


Shenzhen LCS Compliance Testing Laboratory Ltd.

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

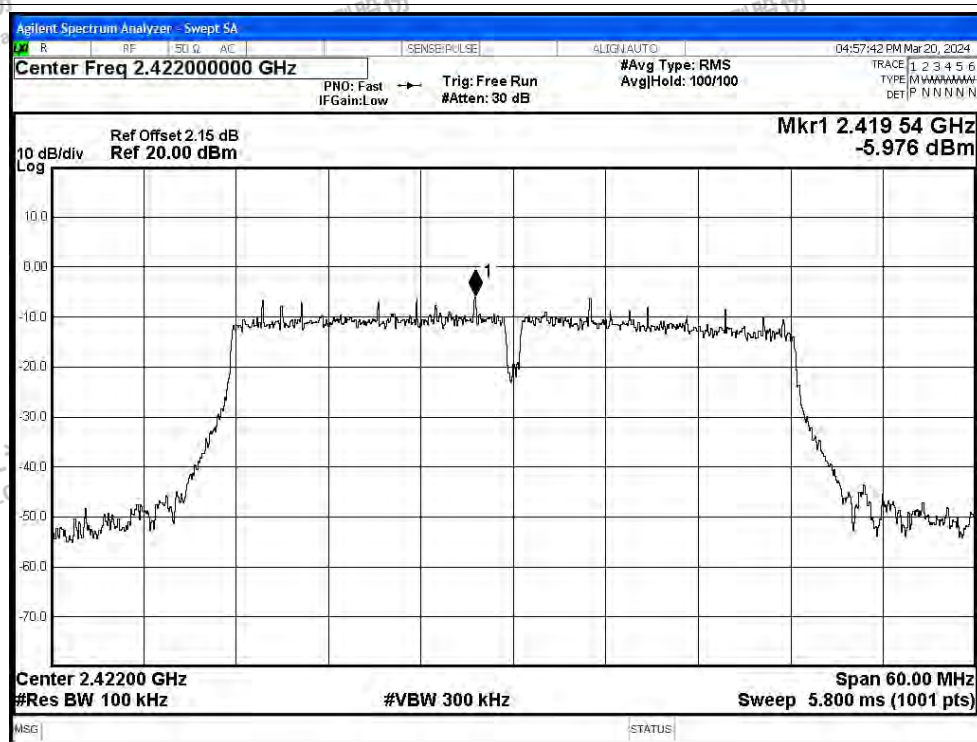
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

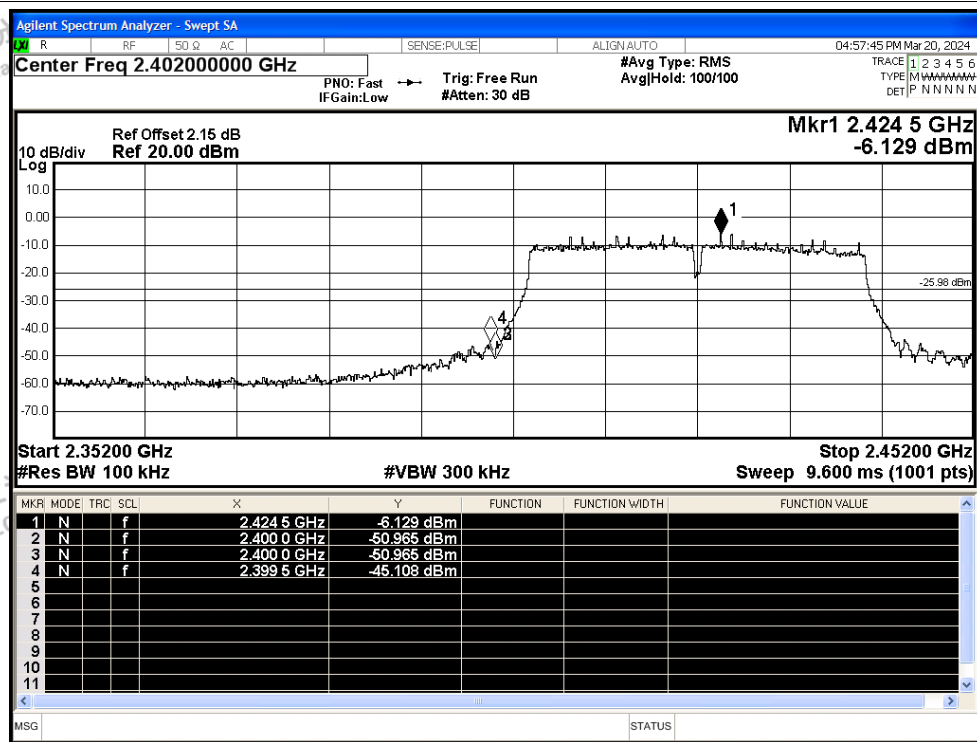




Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

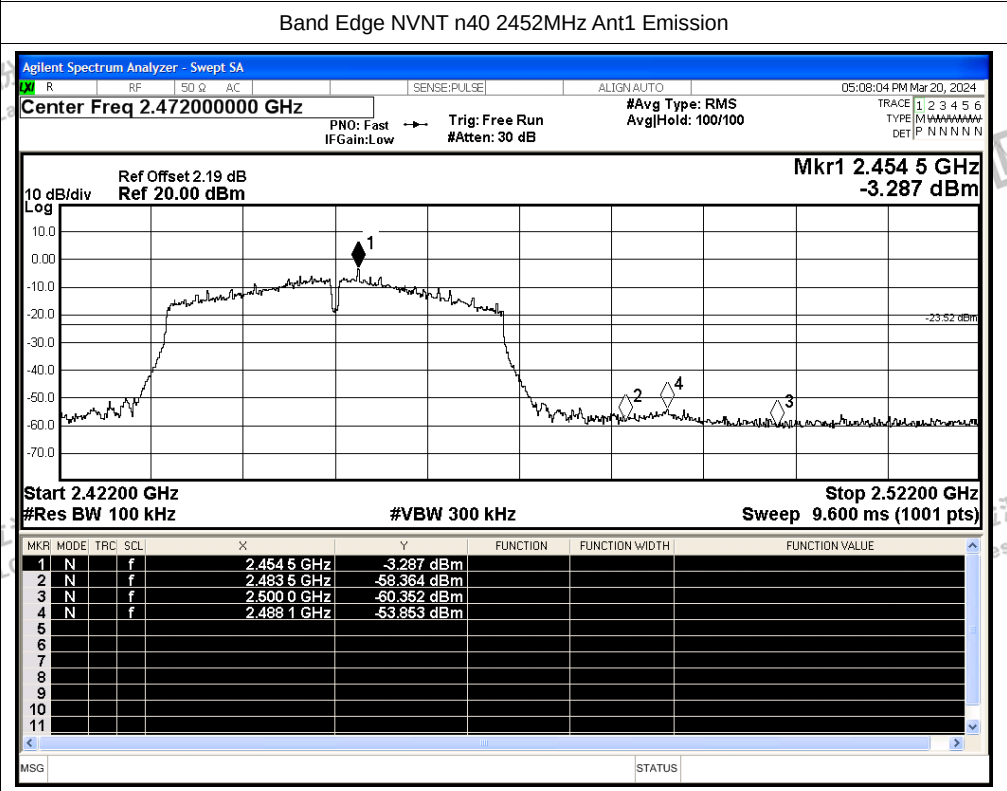
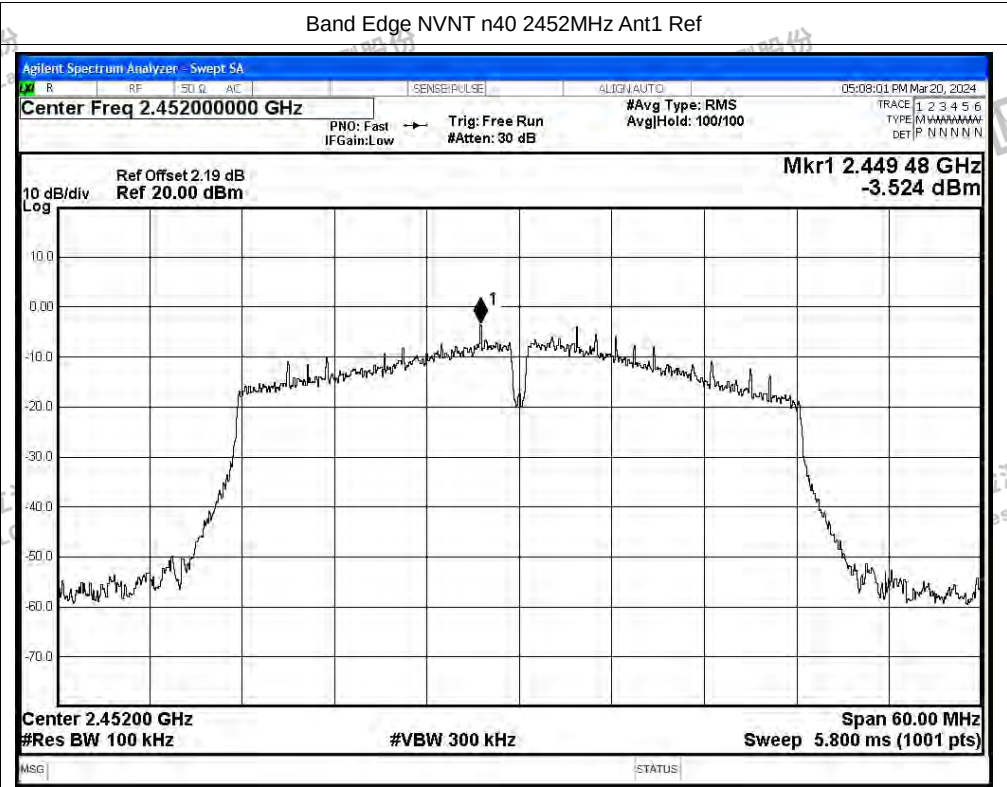


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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-50.25	-20	Pass
NVNT	b	2462	Ant2	-51.08	-20	Pass
NVNT	g	2412	Ant2	-29.78	-20	Pass
NVNT	g	2462	Ant2	-45.71	-20	Pass
NVNT	n20	2412	Ant2	-32.44	-20	Pass
NVNT	n20	2462	Ant2	-44.45	-20	Pass
NVNT	n40	2422	Ant2	-31.41	-20	Pass
NVNT	n40	2452	Ant2	-39.31	-20	Pass



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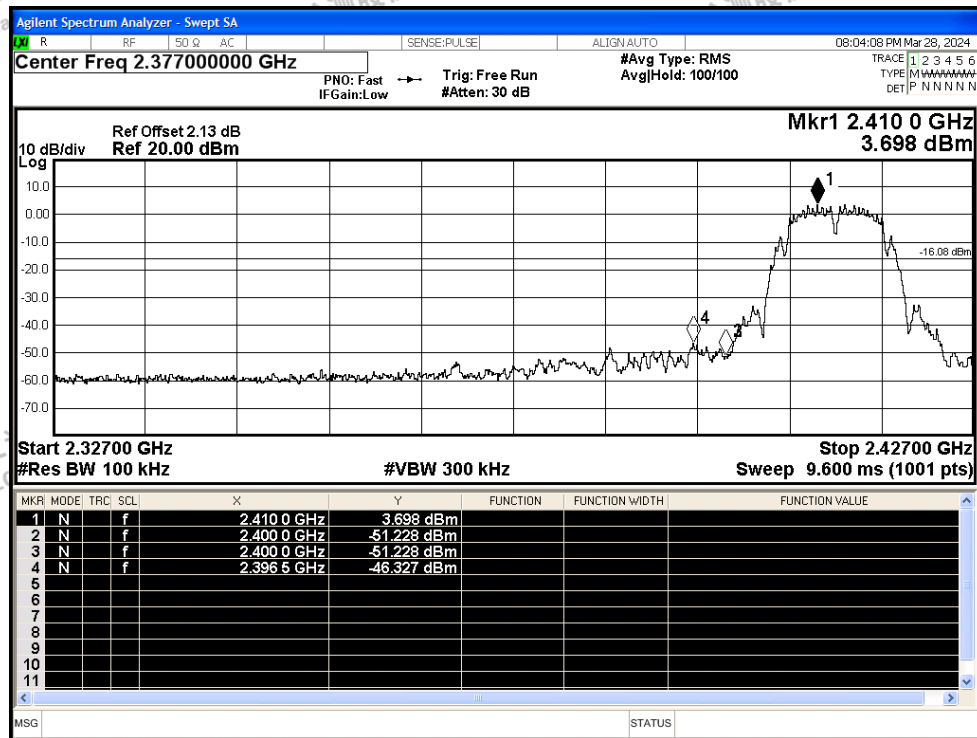


Test Graphs

Band Edge NVNT b 2412MHz Ant2 Ref



Band Edge NVNT b 2412MHz Ant2 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

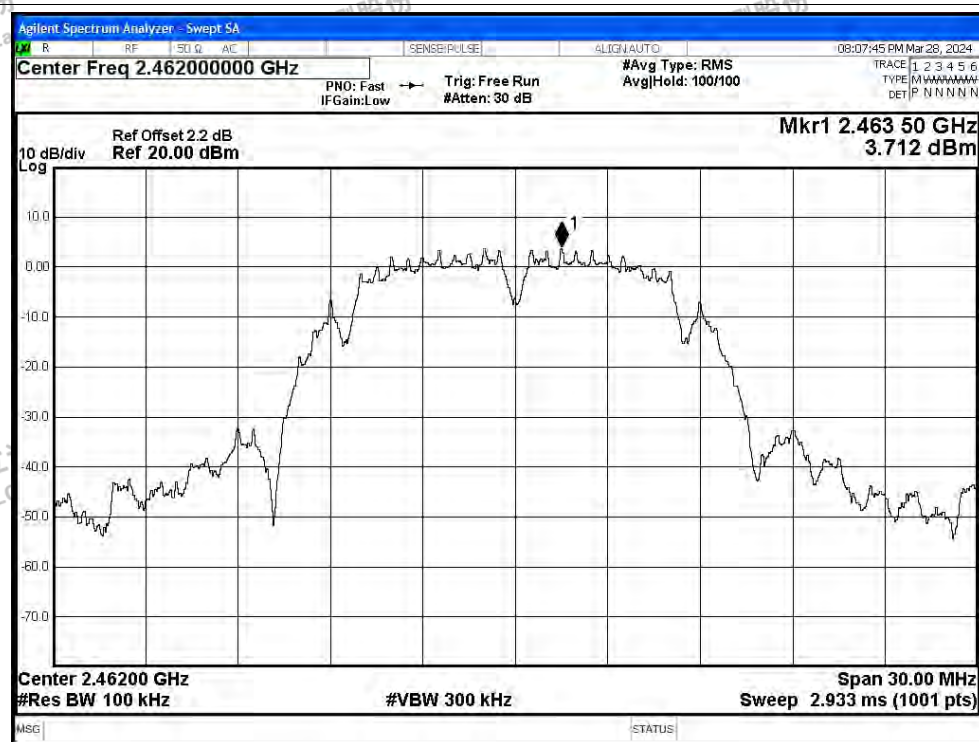
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

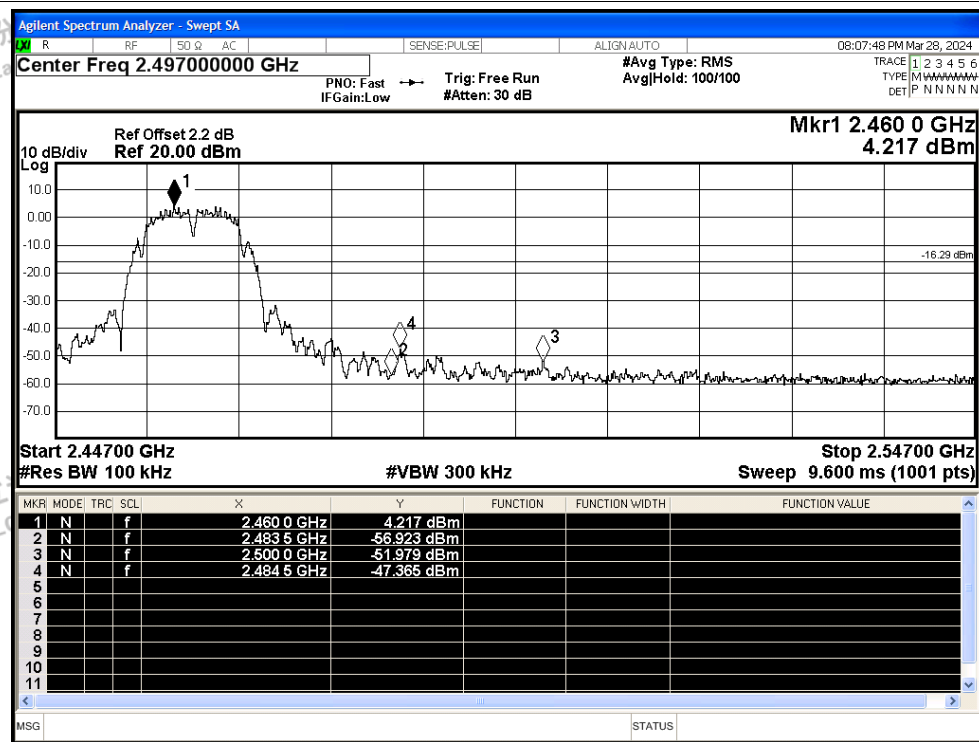
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant2 Ref



Band Edge NVNT b 2462MHz Ant2 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

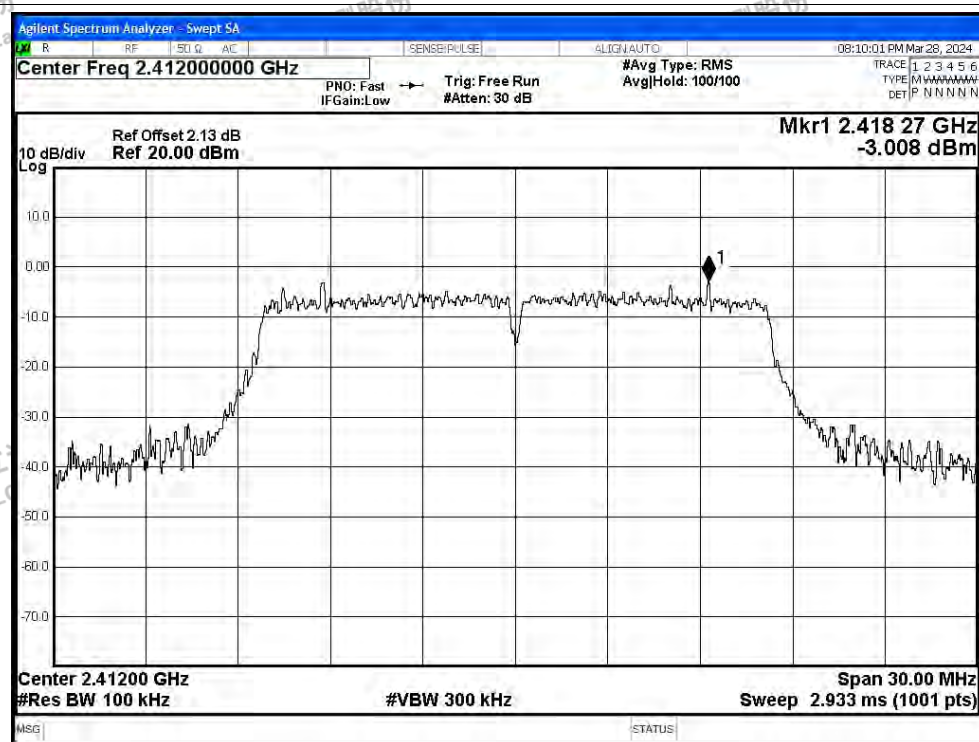
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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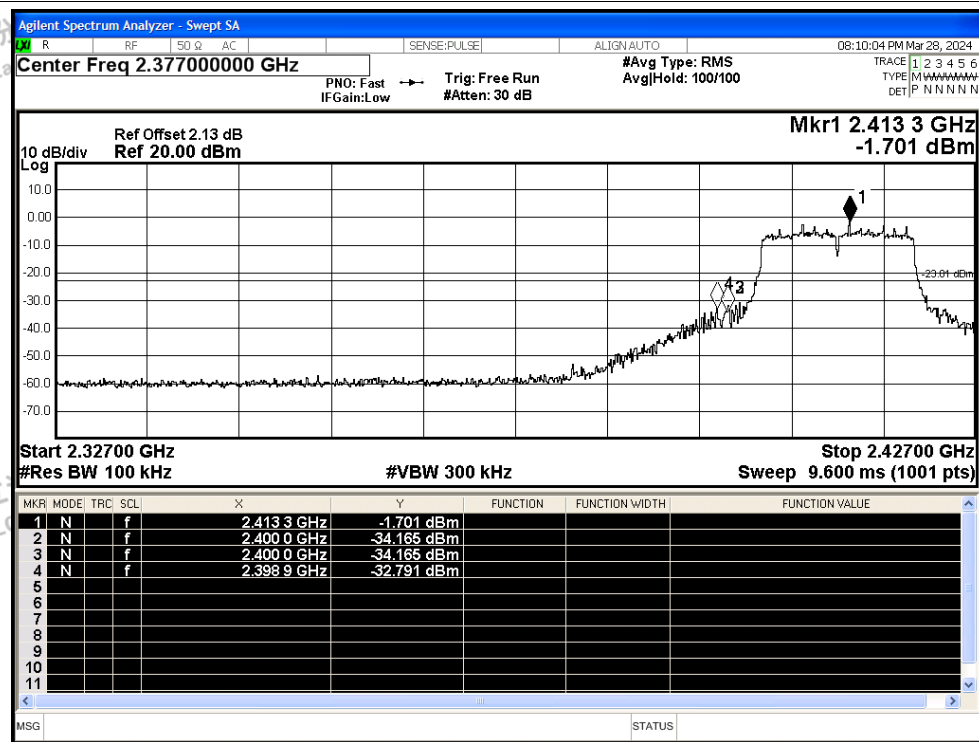
Scan code to check authenticity



Band Edge NVNT g 2412MHz Ant2 Ref



Band Edge NVNT g 2412MHz Ant2 Emission

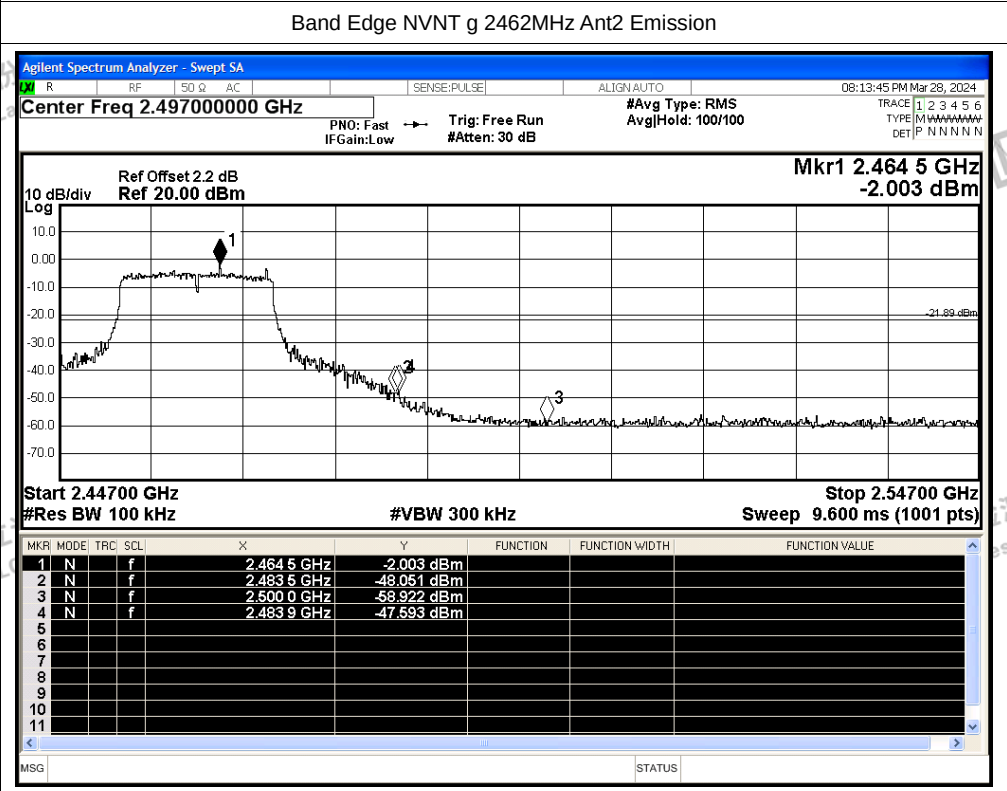
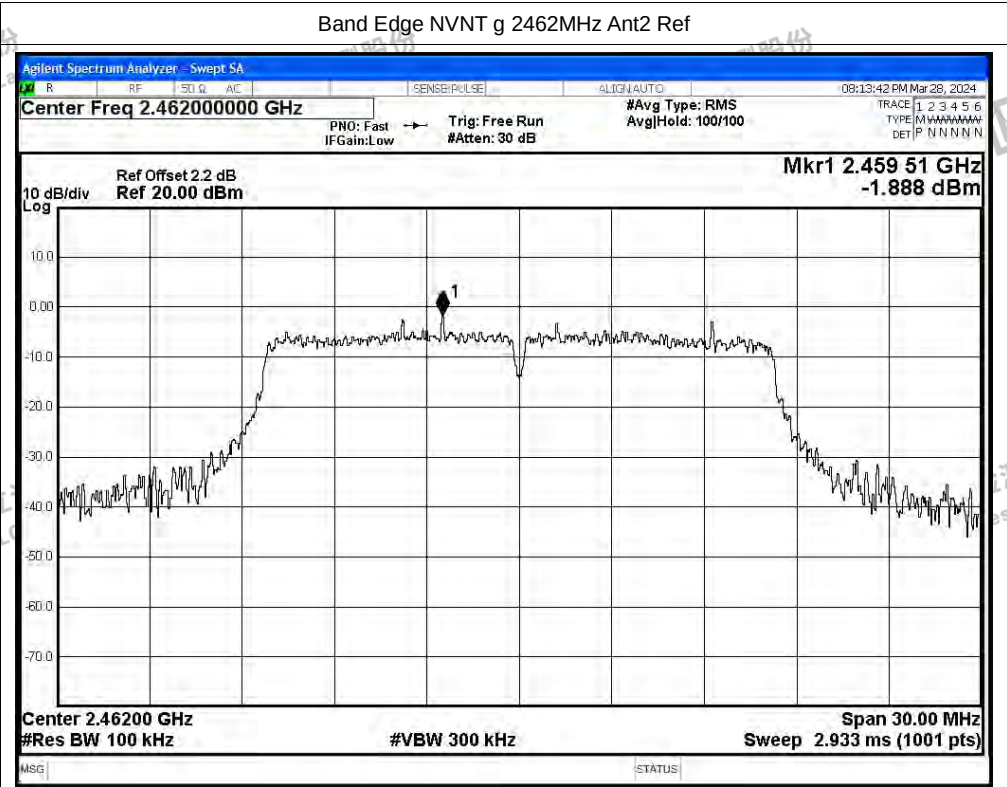


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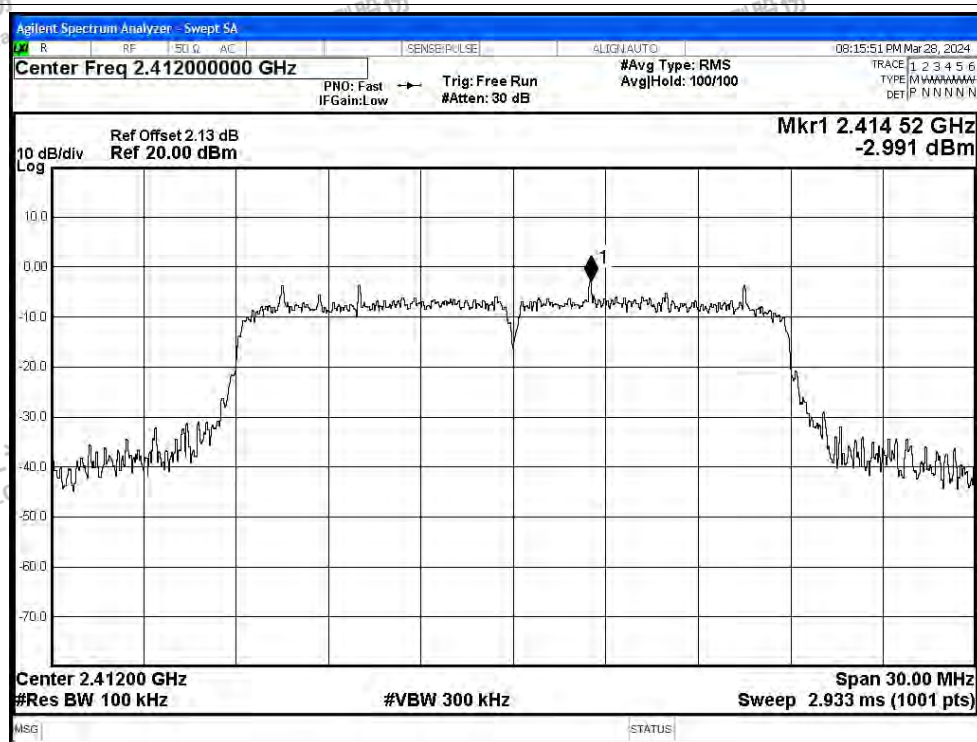
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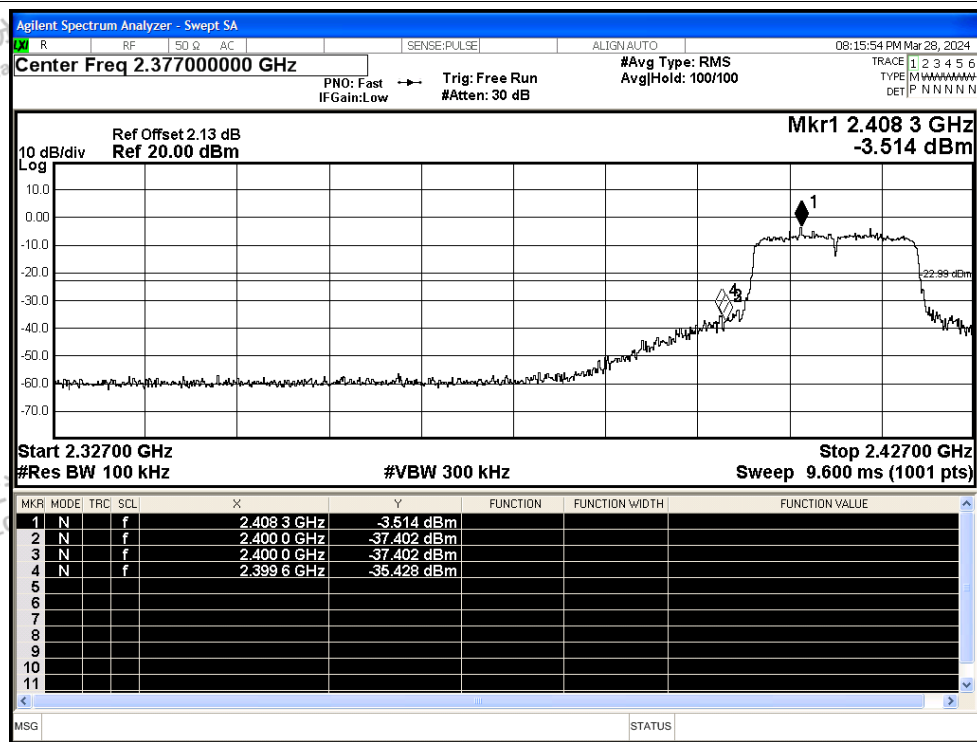




Band Edge NVNT n20 2412MHz Ant2 Ref



Band Edge NVNT n20 2412MHz Ant2 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

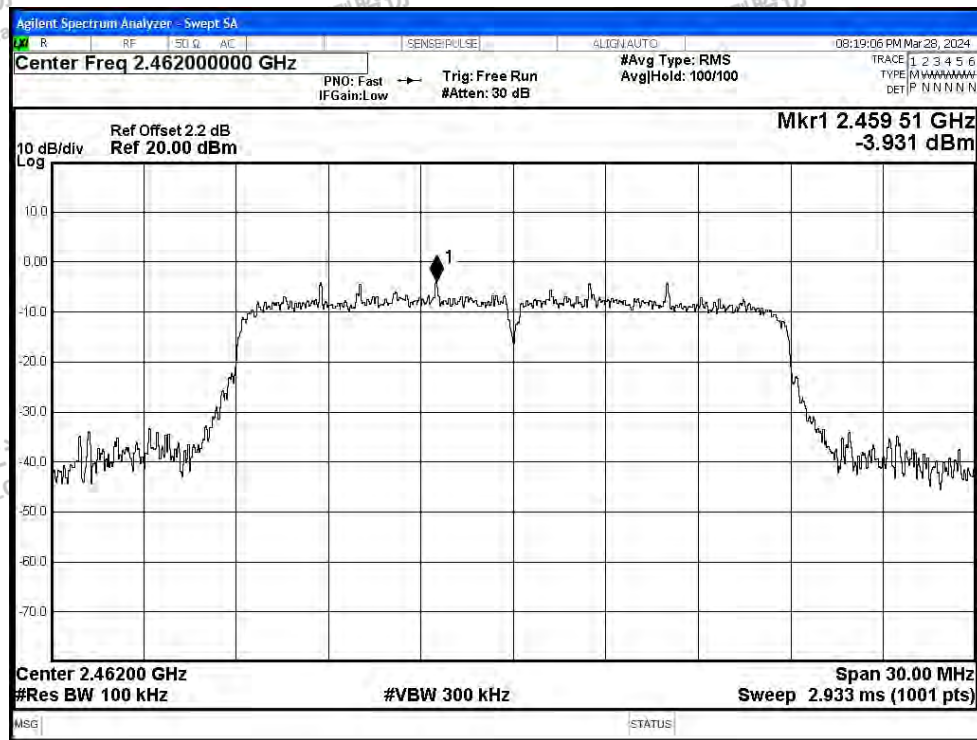
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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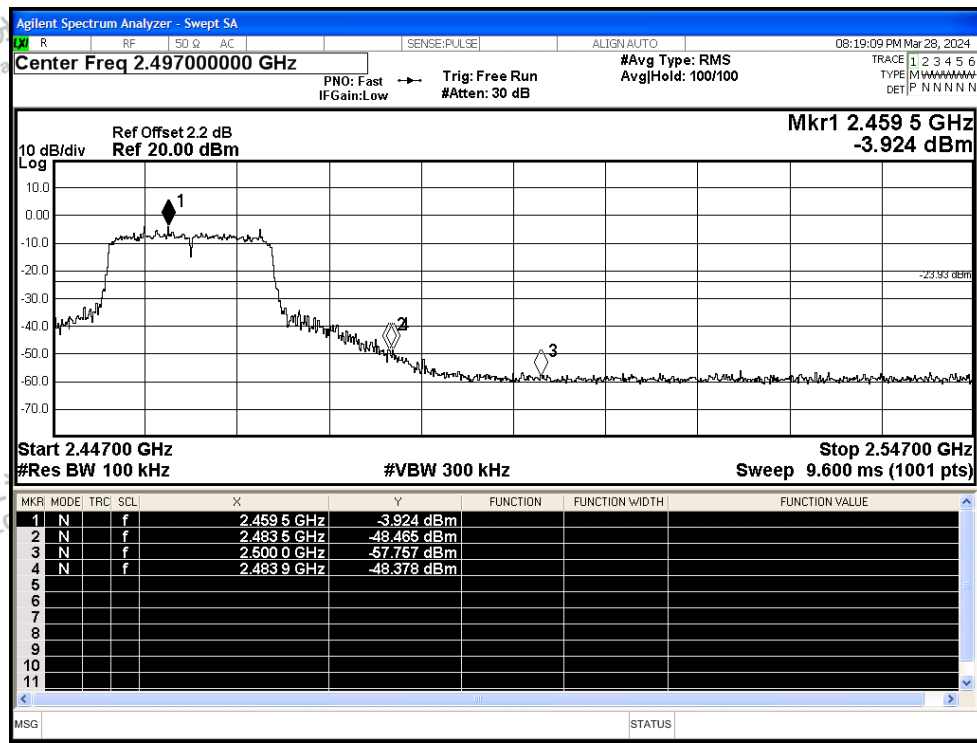
Scan code to check authenticity



Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 Emission



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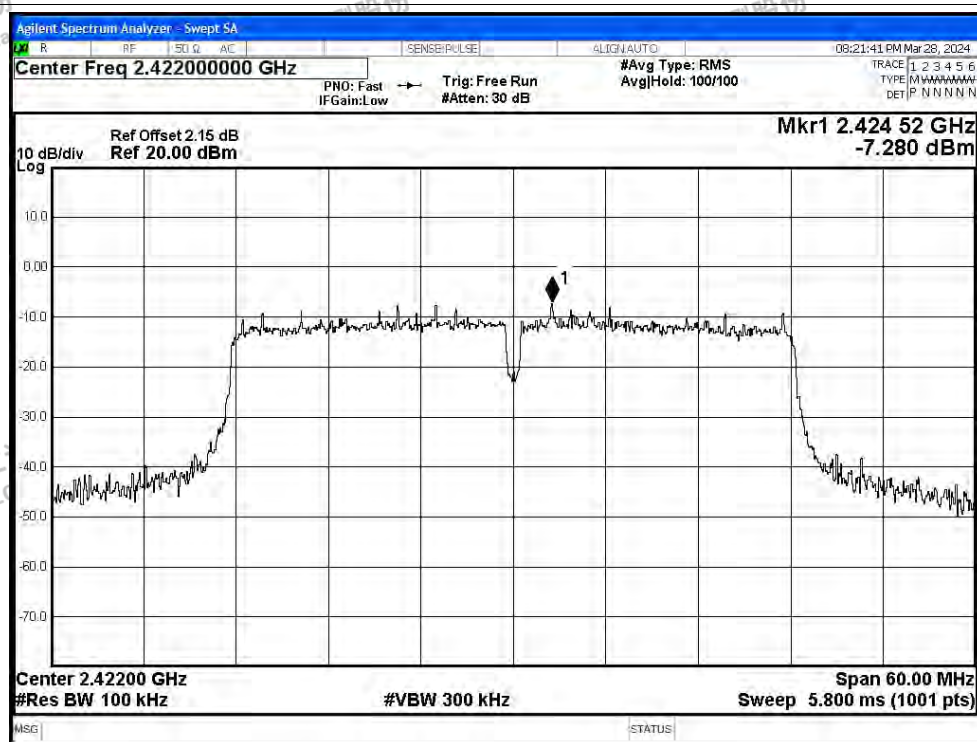
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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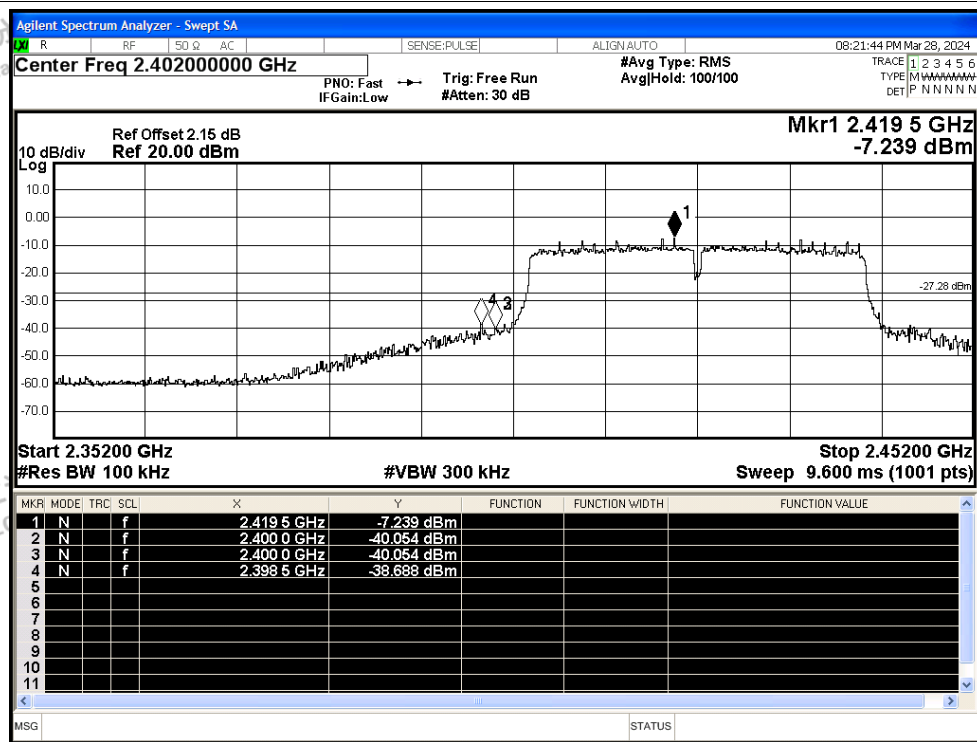
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant2 Ref



Band Edge NVNT n40 2422MHz Ant2 Emission



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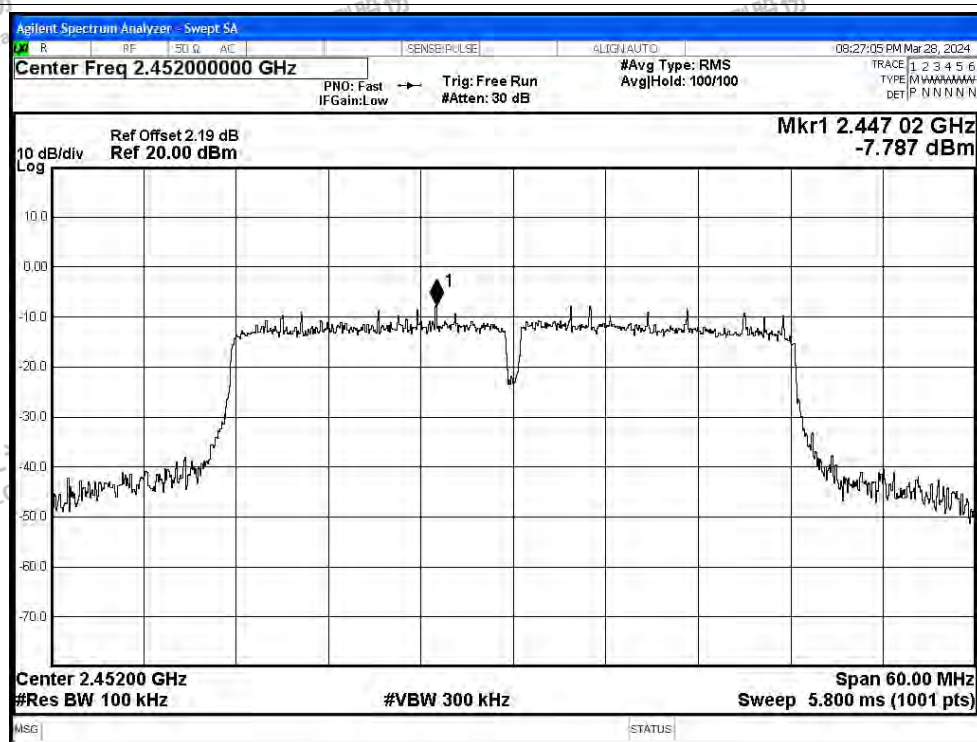
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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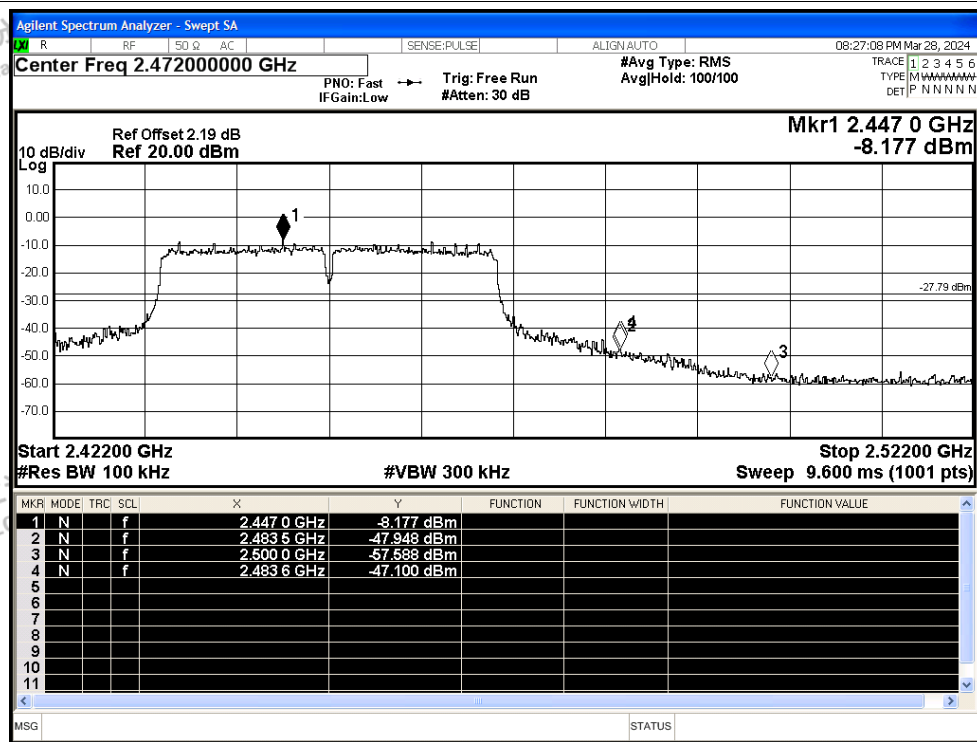
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Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission



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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.4	-20	Pass
NVNT	b	2437	Ant1	-48.93	-20	Pass
NVNT	b	2462	Ant1	-50.46	-20	Pass
NVNT	g	2412	Ant1	-45.07	-20	Pass
NVNT	g	2437	Ant1	-45.49	-20	Pass
NVNT	g	2462	Ant1	-45.27	-20	Pass
NVNT	n20	2412	Ant1	-44.51	-20	Pass
NVNT	n20	2437	Ant1	-43.46	-20	Pass
NVNT	n20	2462	Ant1	-45.17	-20	Pass
NVNT	n40	2422	Ant1	-39.93	-20	Pass
NVNT	n40	2437	Ant1	-39.81	-20	Pass
NVNT	n40	2452	Ant1	-41.87	-20	Pass



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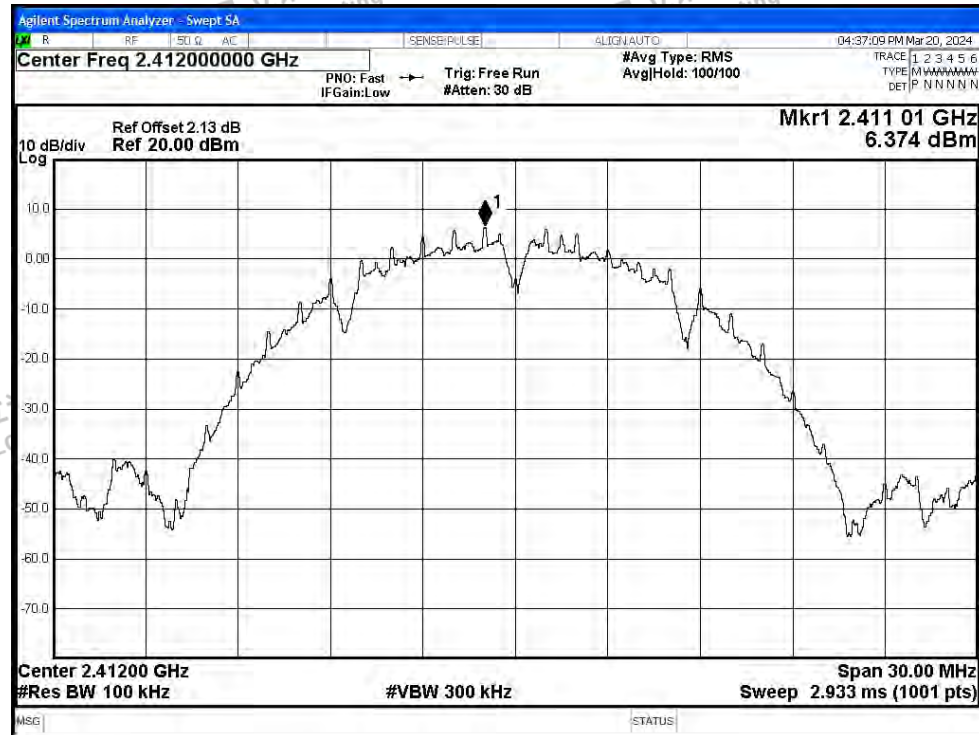
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

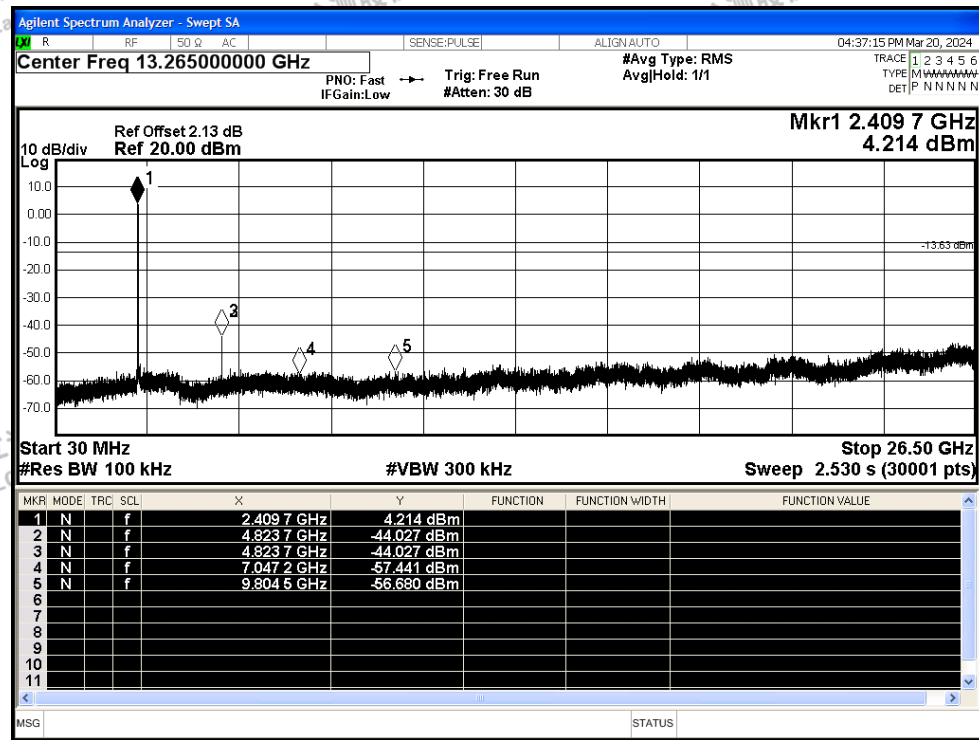


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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