



Appendix B

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Aeronode Indoor Air Quality Monitor

Test Model: A100

Environmental Conditions

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



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.009	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.254	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.592	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.367	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.377	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.366	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.433	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.613	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.319	≥ 0.5	Pass
NVNT	n40	2422	Ant1	31.768	≥ 0.5	Pass
NVNT	n40	2437	Ant1	36.176	≥ 0.5	Pass
NVNT	n40	2452	Ant1	36.028	≥ 0.5	Pass
NVNT	ax20	2412	Ant1	16.86	≥ 0.5	Pass
NVNT	ax20	2437	Ant1	17.248	≥ 0.5	Pass
NVNT	ax20	2462	Ant1	17.227	≥ 0.5	Pass
NVNT	ax40	2422	Ant1	35.166	≥ 0.5	Pass
NVNT	ax40	2437	Ant1	35.54	≥ 0.5	Pass
NVNT	ax40	2452	Ant1	35.464	≥ 0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

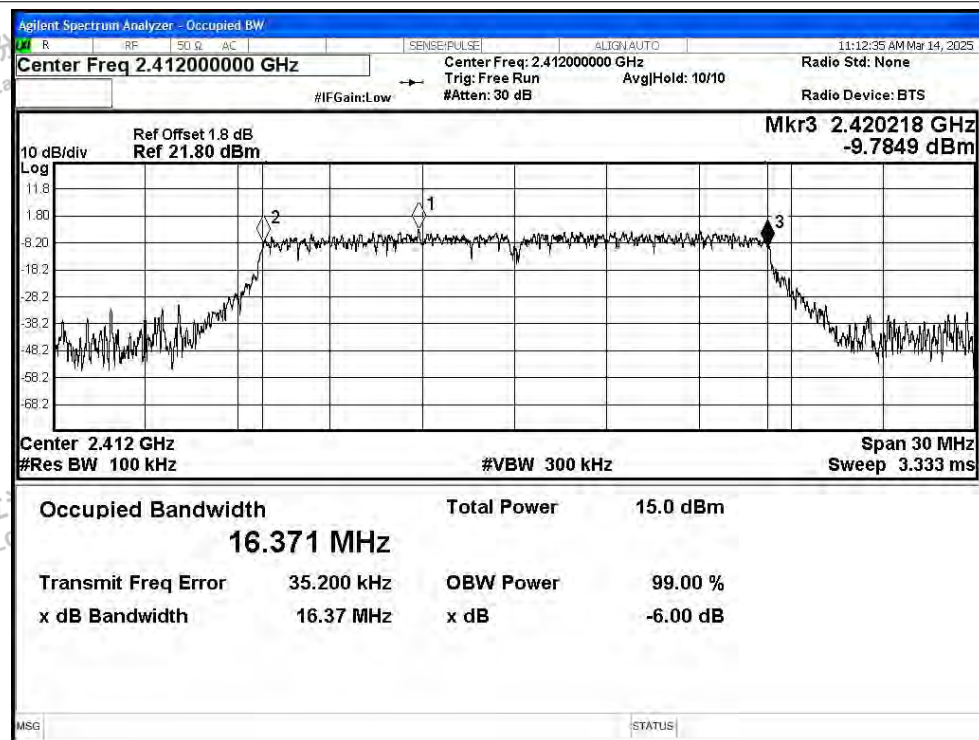




-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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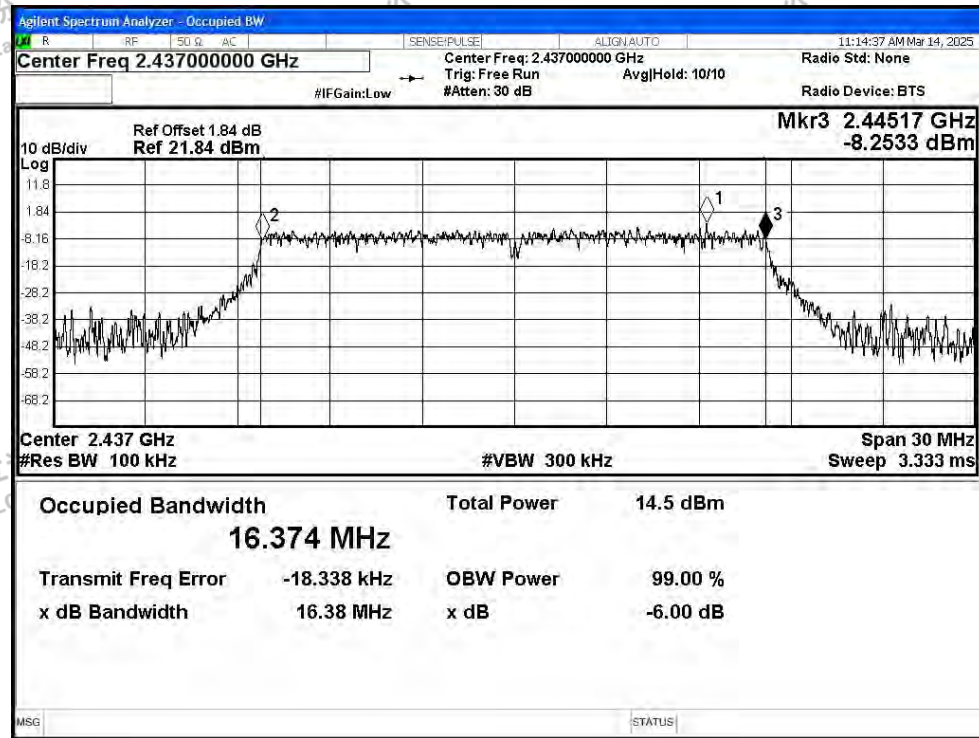
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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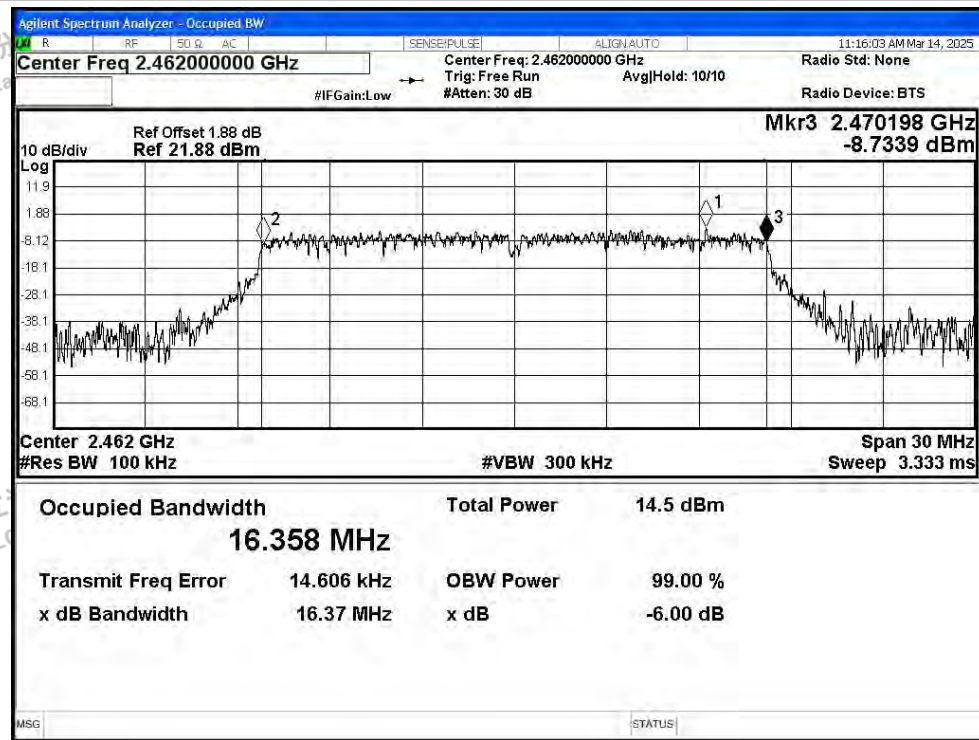
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

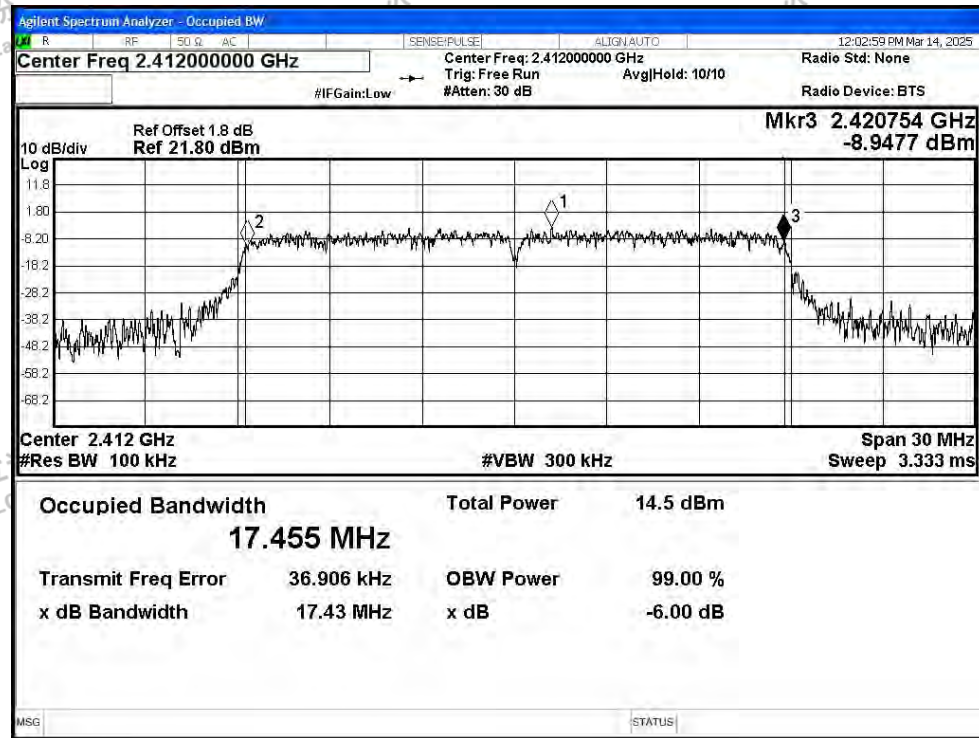
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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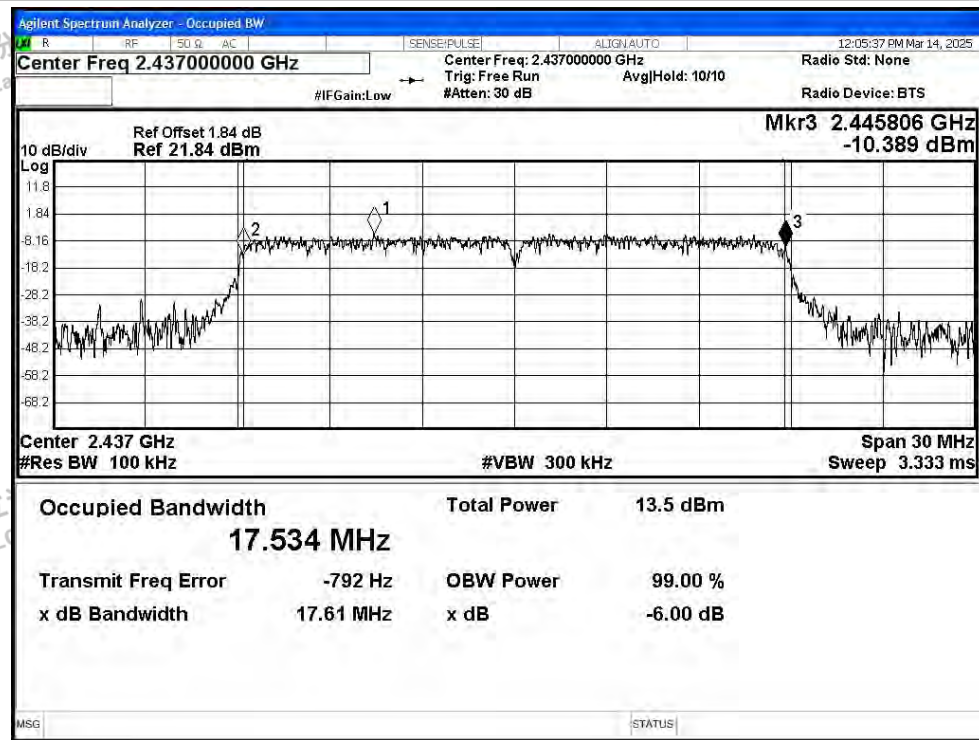
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant1

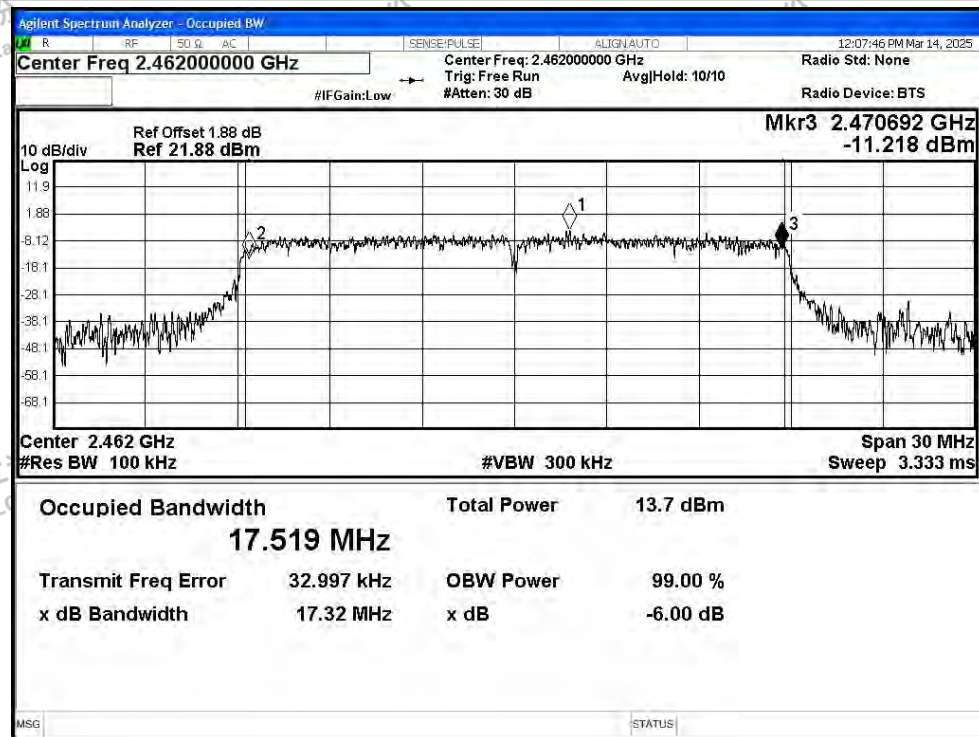


-6dB Bandwidth NVNT n20 2437MHz Ant1

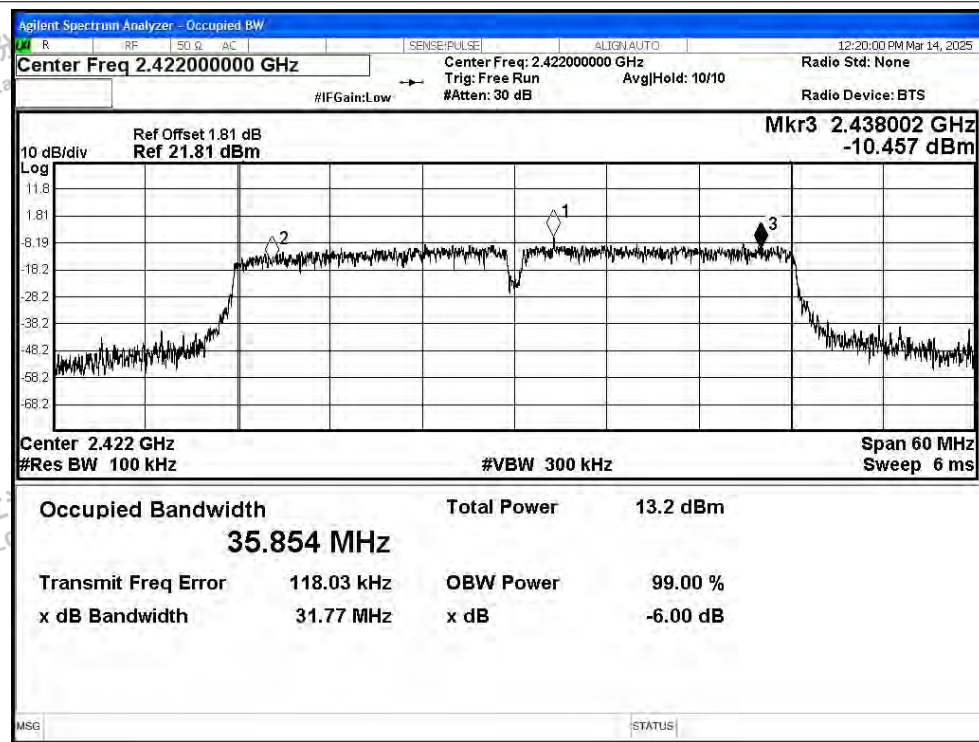




-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

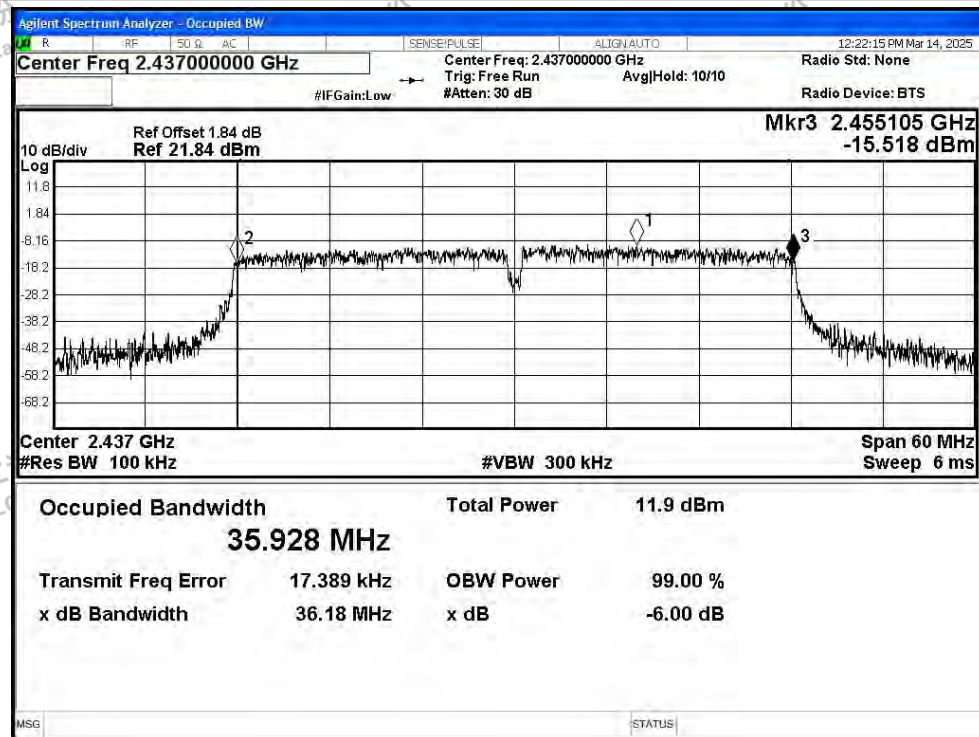
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

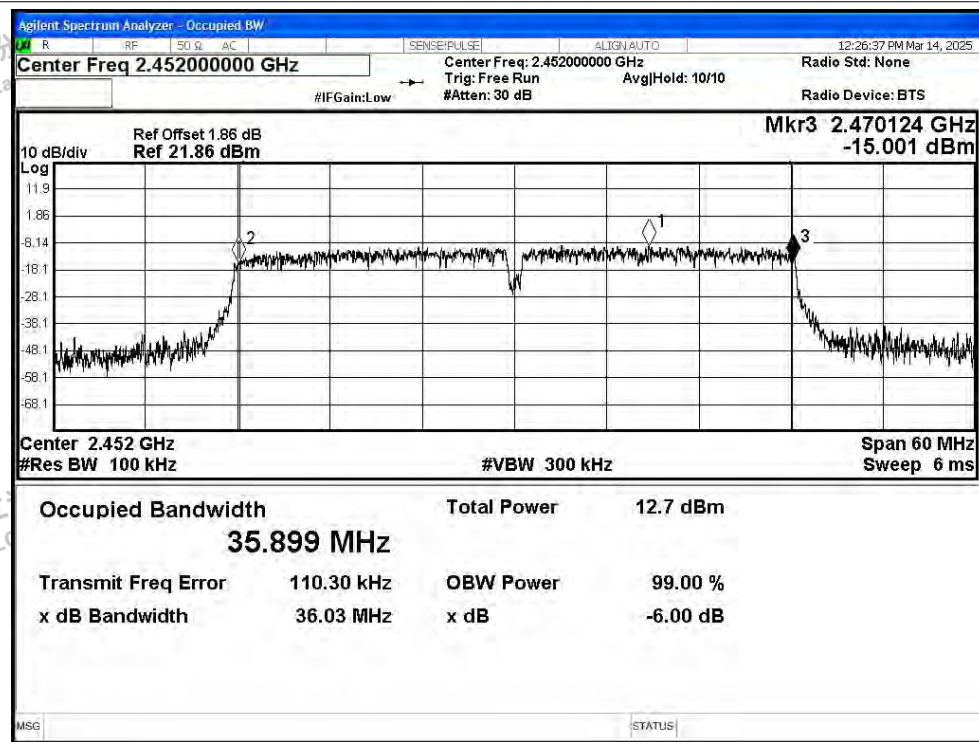
Scan code to check authenticity



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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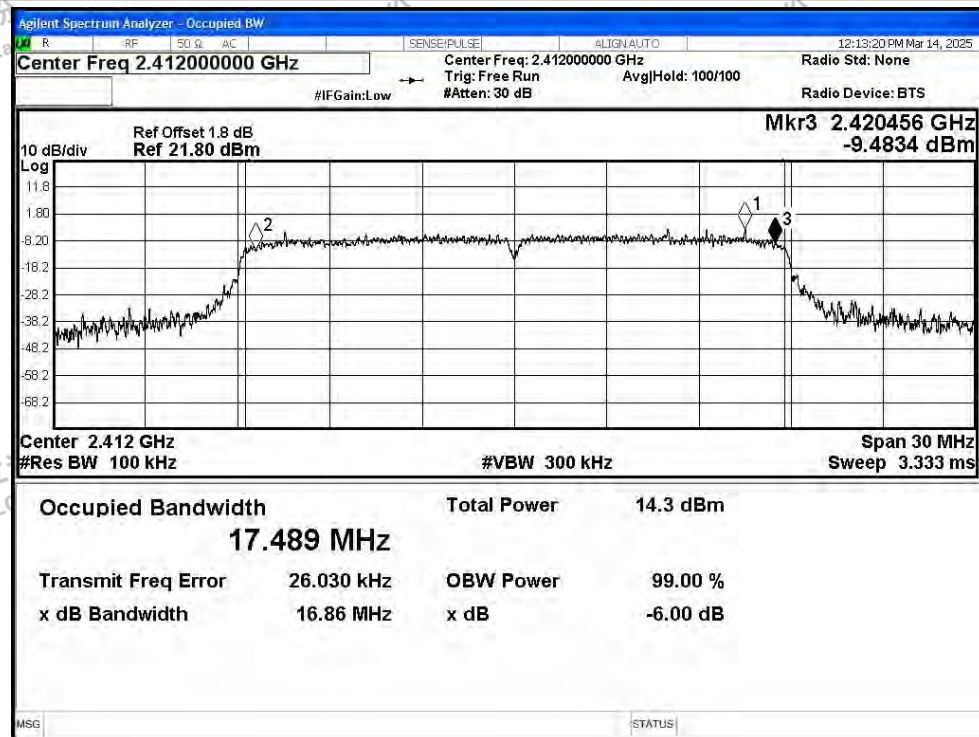
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

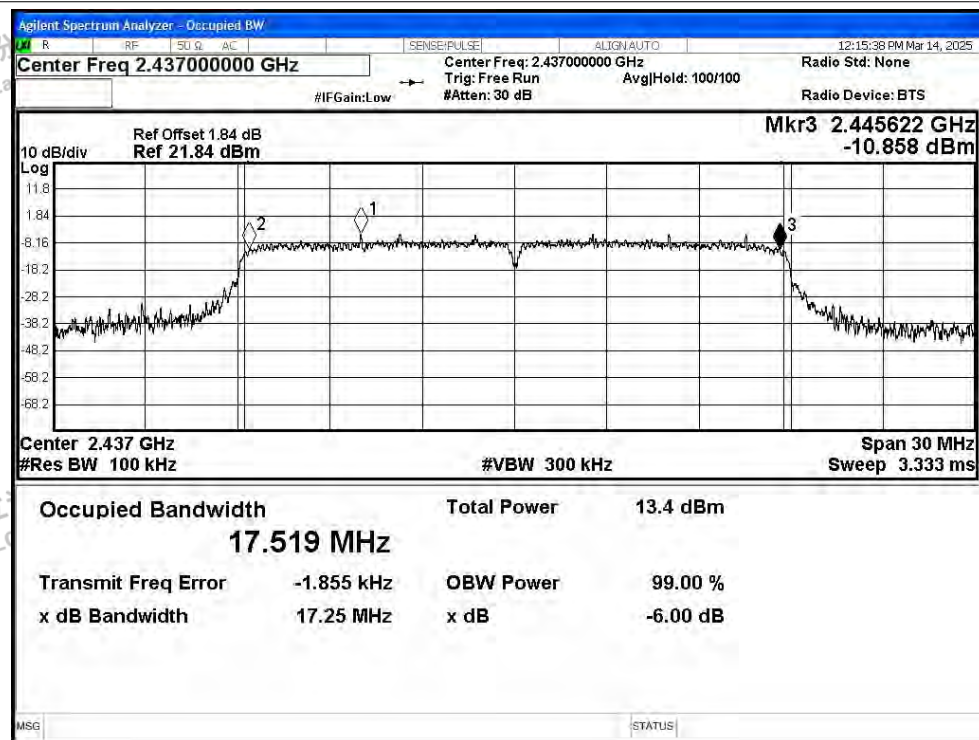
Scan code to check authenticity



-6dB Bandwidth NVNT ax20 2412MHz Ant1



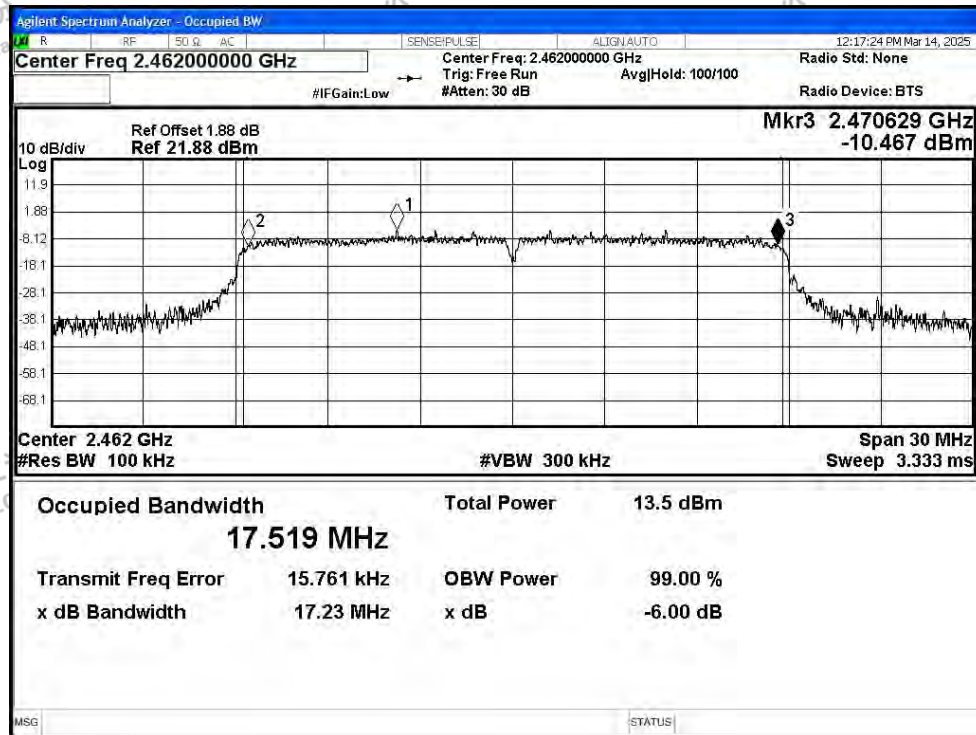
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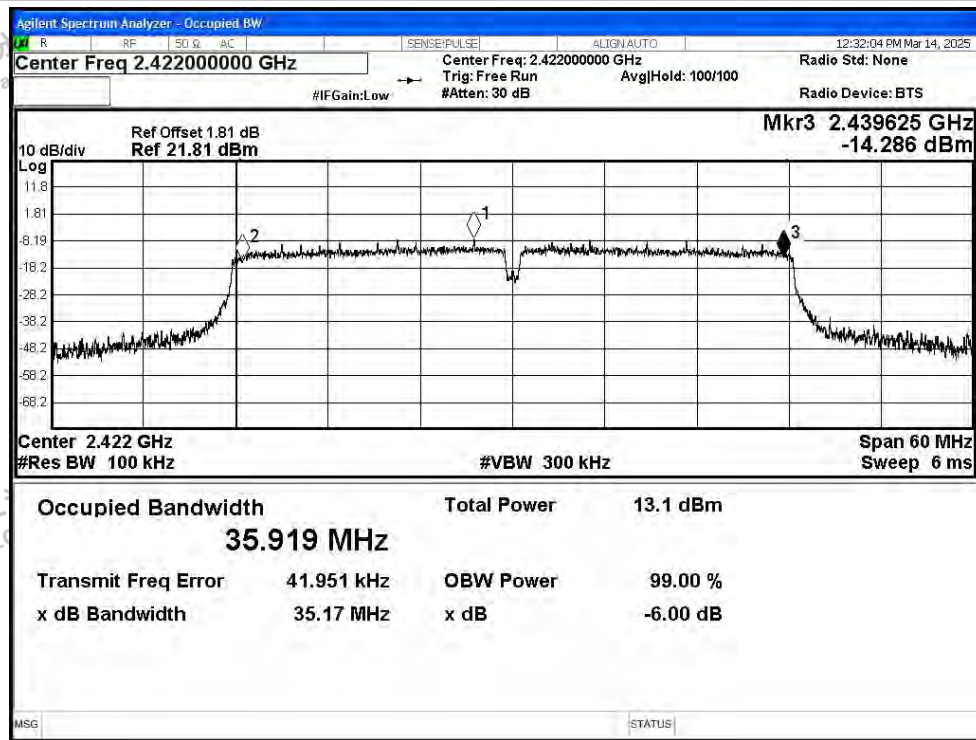


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-6dB Bandwidth NVNT ax20 2462MHz Ant1



-6dB Bandwidth NVNT ax40 2422MHz Ant1



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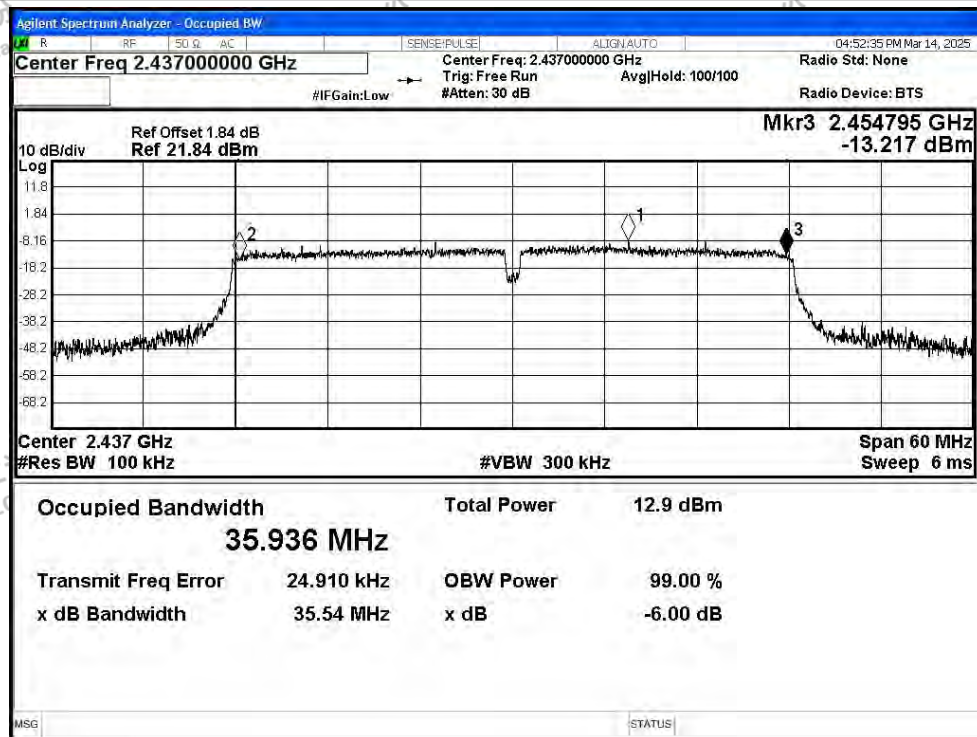
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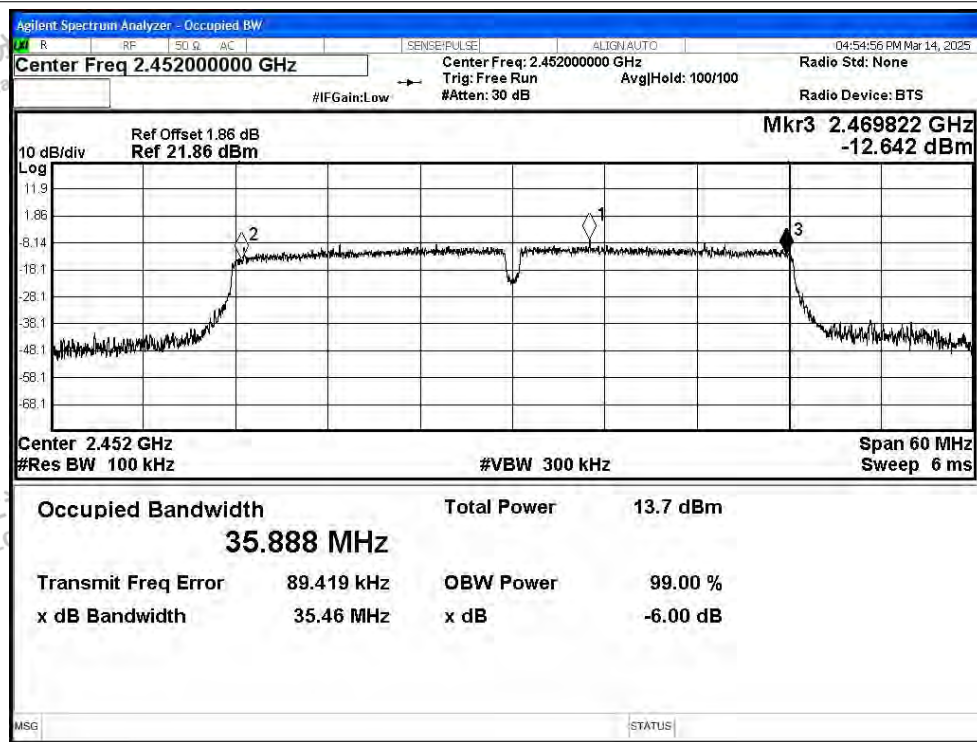


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-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1



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Scan code to check authenticity



B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.87	30	Pass
NVNT	b	2437	Ant1	14.25	30	Pass
NVNT	b	2462	Ant1	14.18	30	Pass
NVNT	g	2412	Ant1	13.82	30	Pass
NVNT	g	2437	Ant1	13.28	30	Pass
NVNT	g	2462	Ant1	13.28	30	Pass
NVNT	n20	2412	Ant1	12.93	30	Pass
NVNT	n20	2437	Ant1	13.45	30	Pass
NVNT	n20	2462	Ant1	13.12	30	Pass
NVNT	n40	2422	Ant1	11.50	30	Pass
NVNT	n40	2437	Ant1	10.31	30	Pass
NVNT	n40	2452	Ant1	11.10	30	Pass
NVNT	ax20	2412	Ant1	12.85	30	Pass
NVNT	ax20	2437	Ant1	12.01	30	Pass
NVNT	ax20	2462	Ant1	12.22	30	Pass
NVNT	ax40	2422	Ant1	11.63	30	Pass
NVNT	ax40	2437	Ant1	11.50	30	Pass
NVNT	ax40	2452	Ant1	10.99	30	Pass





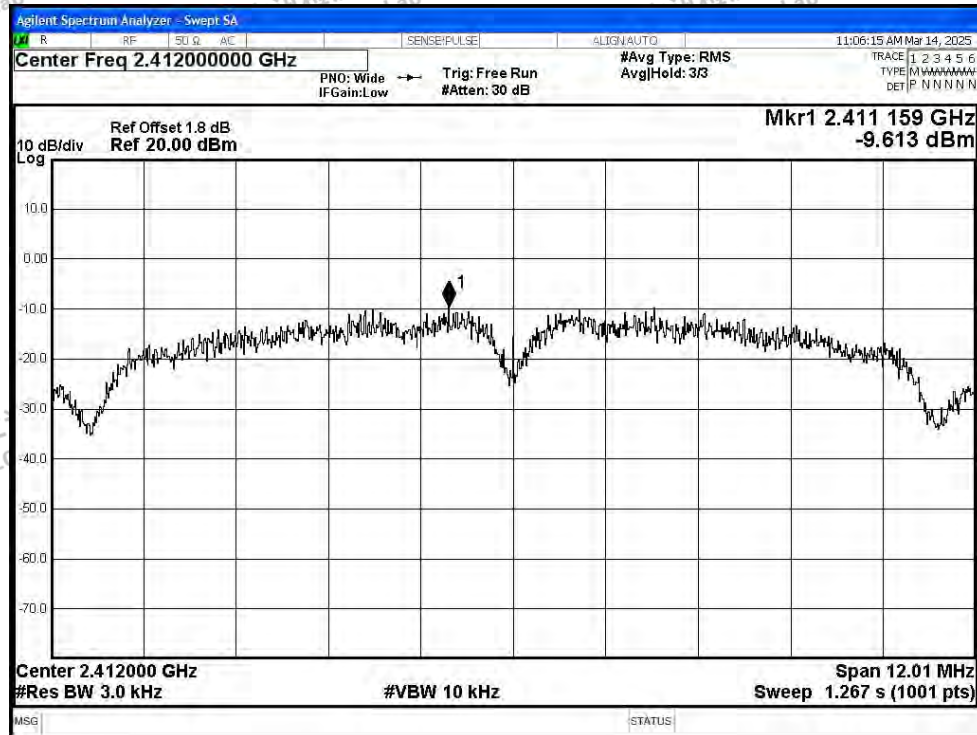
B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.61	8	Pass
NVNT	b	2437	Ant1	-9.21	8	Pass
NVNT	b	2462	Ant1	-10.62	8	Pass
NVNT	g	2412	Ant1	-14.82	8	Pass
NVNT	g	2437	Ant1	-15.94	8	Pass
NVNT	g	2462	Ant1	-14.54	8	Pass
NVNT	n20	2412	Ant1	-15.38	8	Pass
NVNT	n20	2437	Ant1	-16.4	8	Pass
NVNT	n20	2462	Ant1	-15.87	8	Pass
NVNT	n40	2422	Ant1	-20.89	8	Pass
NVNT	n40	2437	Ant1	-21.32	8	Pass
NVNT	n40	2452	Ant1	-21.15	8	Pass
NVNT	ax20	2412	Ant1	-16.84	8	Pass
NVNT	ax20	2437	Ant1	-18.81	8	Pass
NVNT	ax20	2462	Ant1	-16.87	8	Pass
NVNT	ax40	2422	Ant1	-21.83	8	Pass
NVNT	ax40	2437	Ant1	-21.93	8	Pass
NVNT	ax40	2452	Ant1	-21	8	Pass

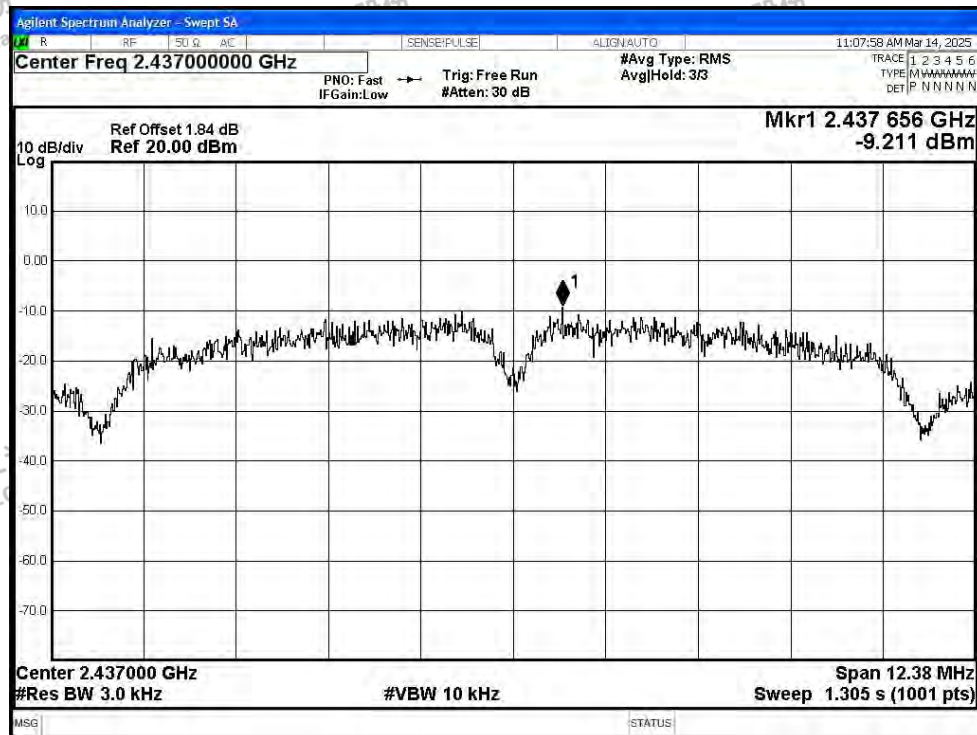


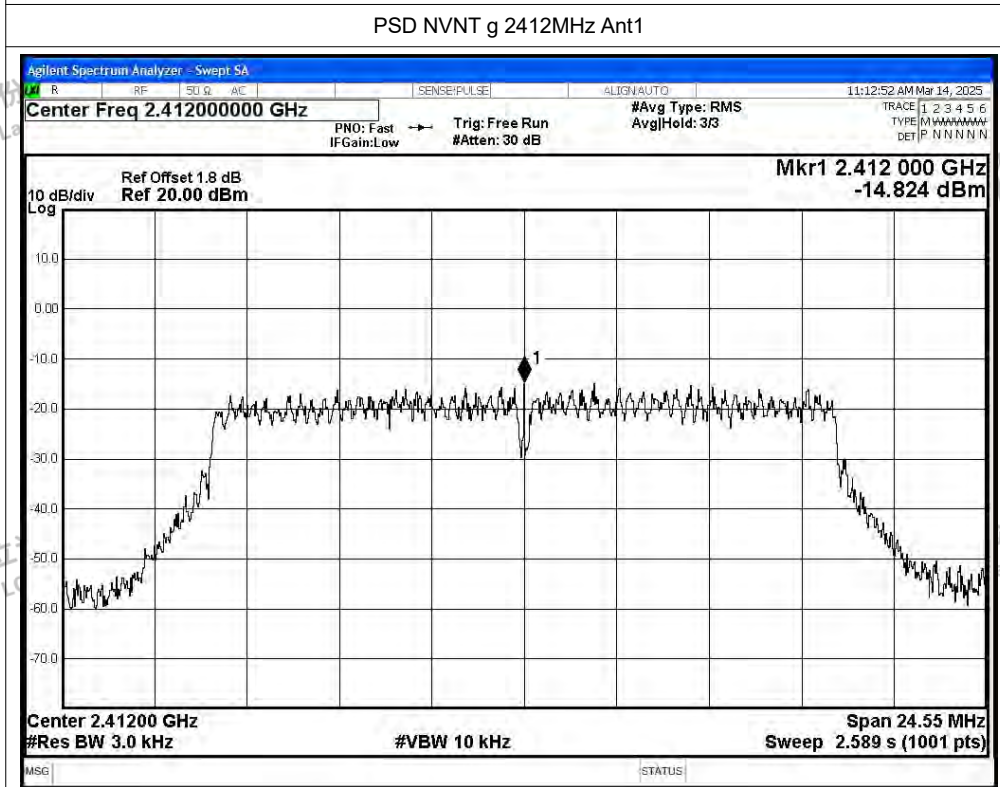
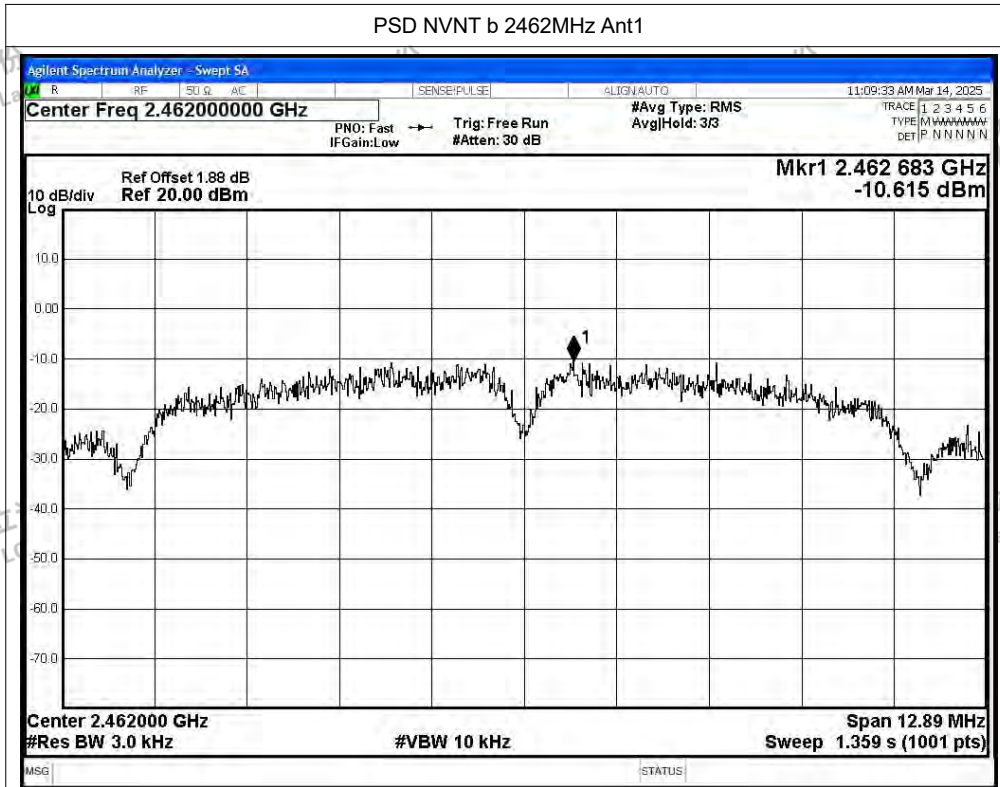
Test Graphs

PSD NVNT b 2412MHz Ant1

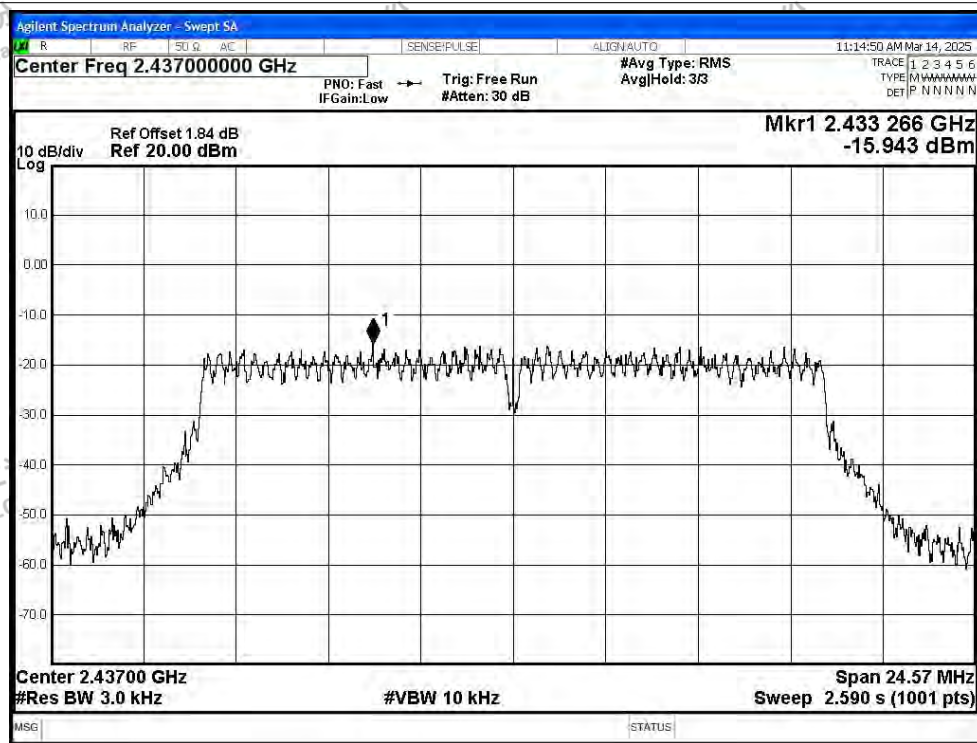


PSD NVNT b 2437MHz Ant1

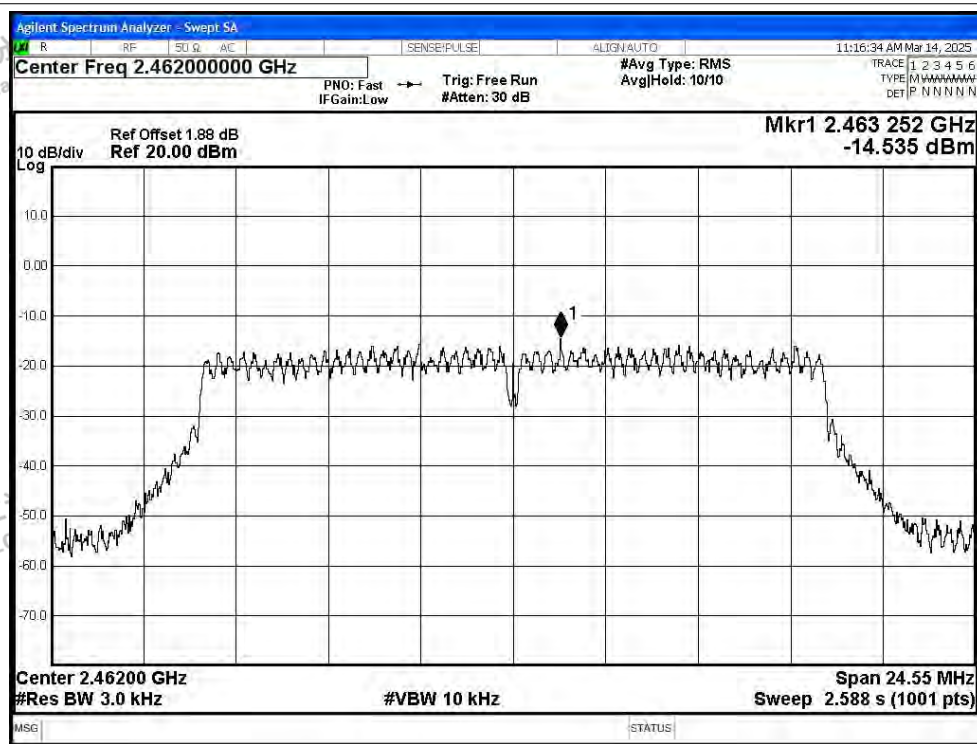


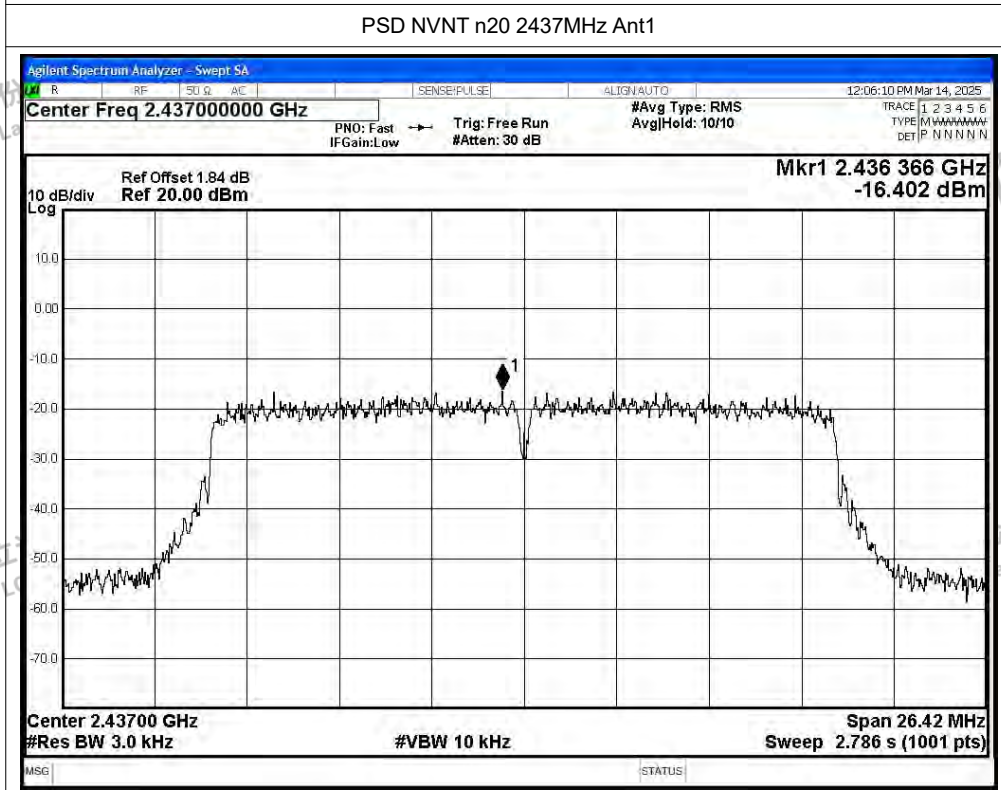
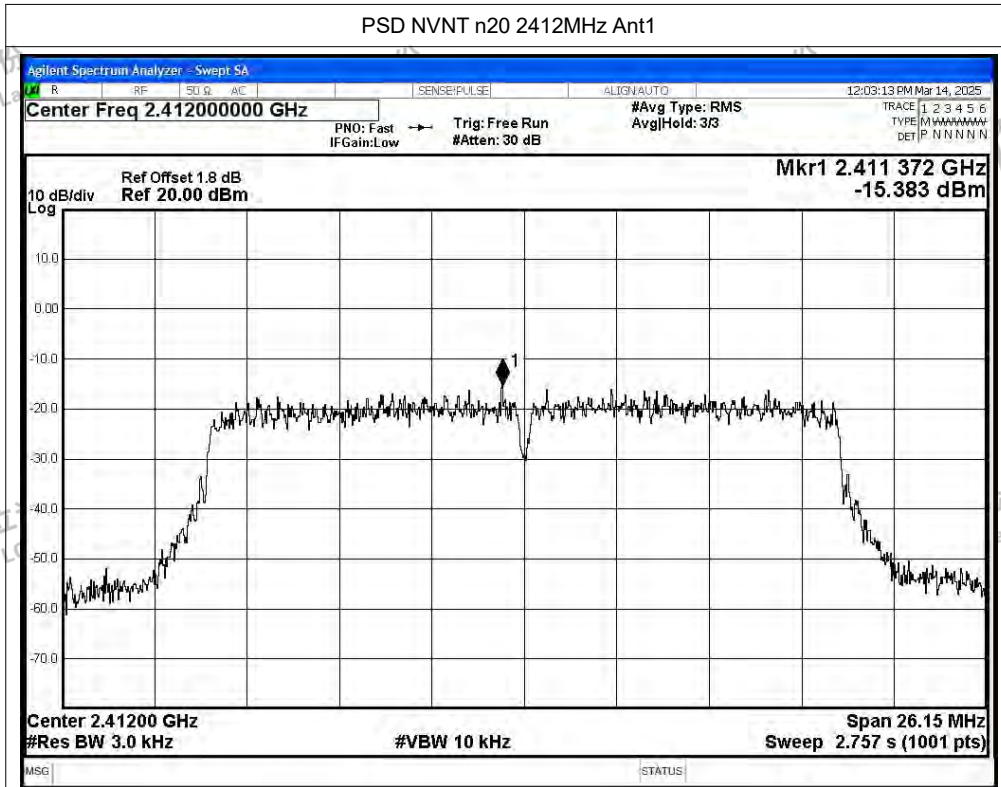


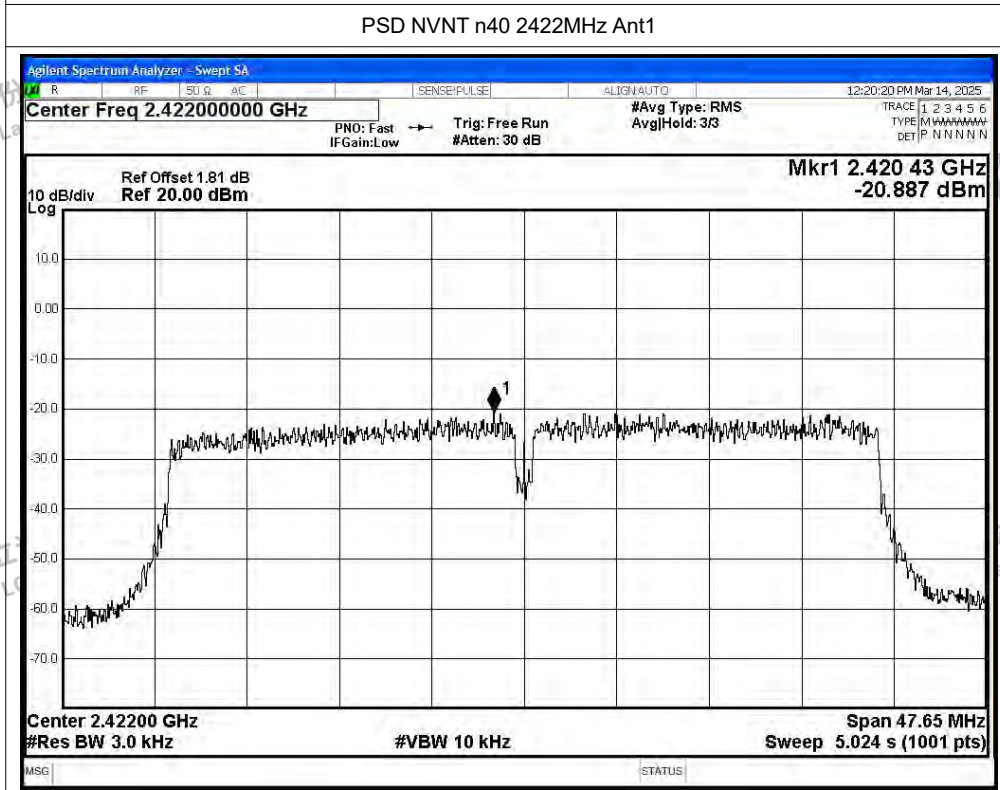
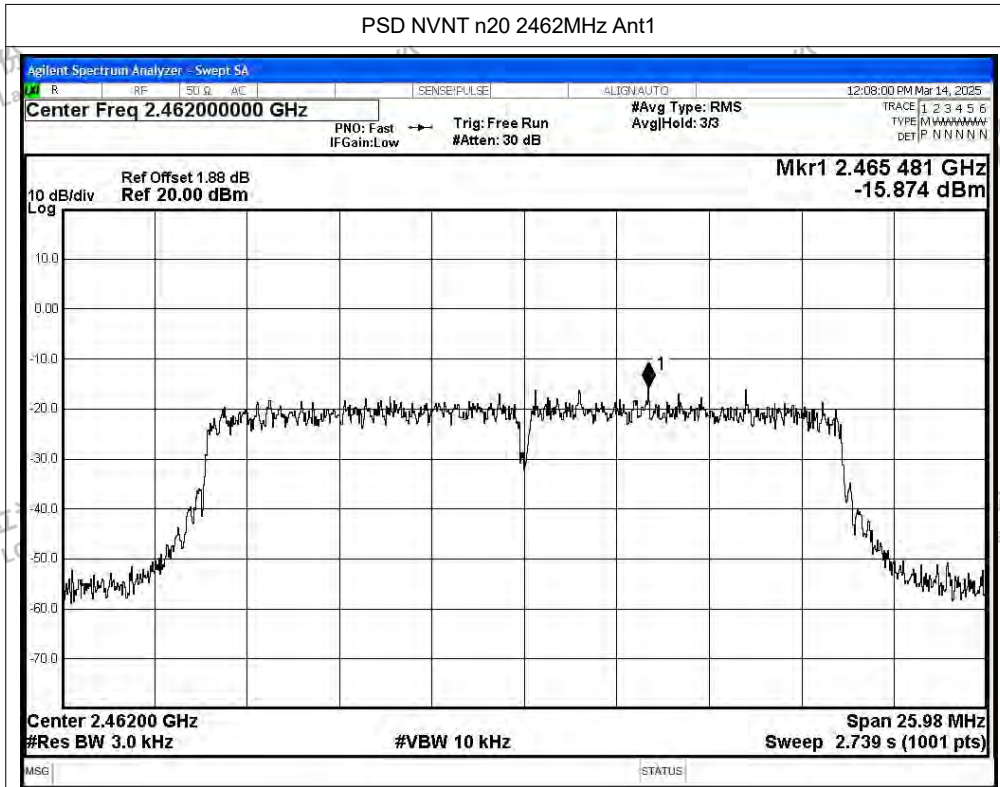
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



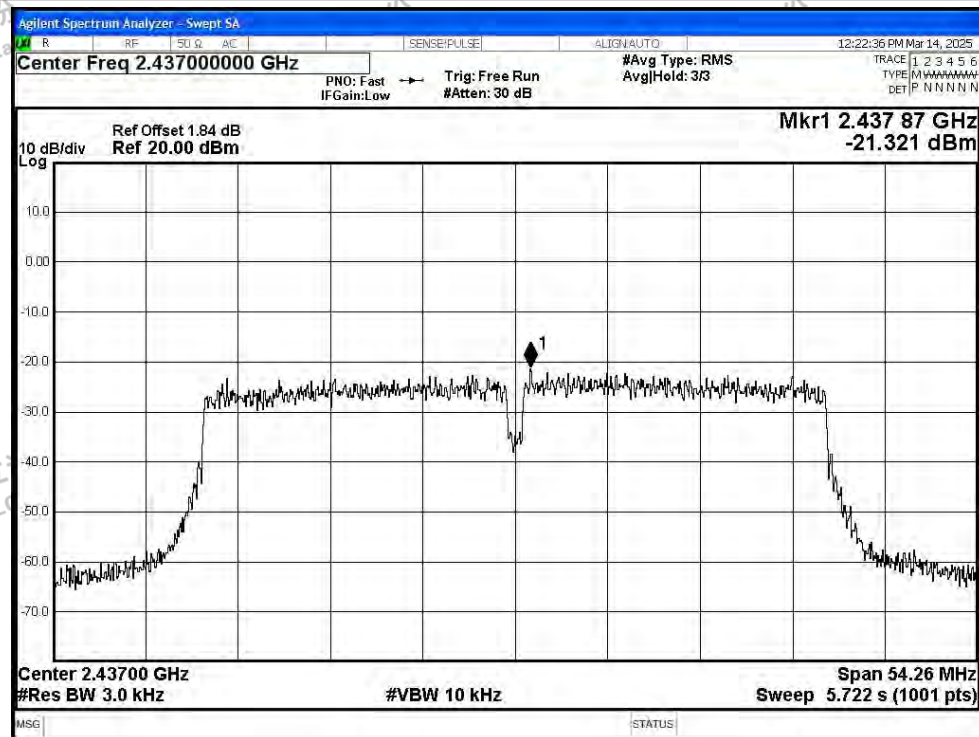




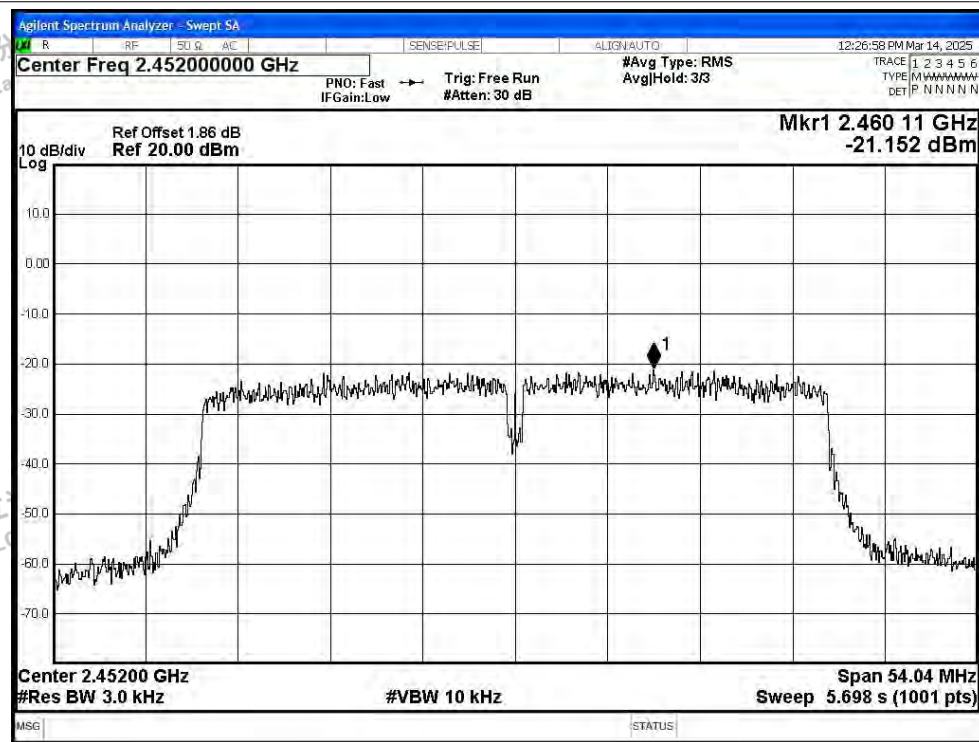


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PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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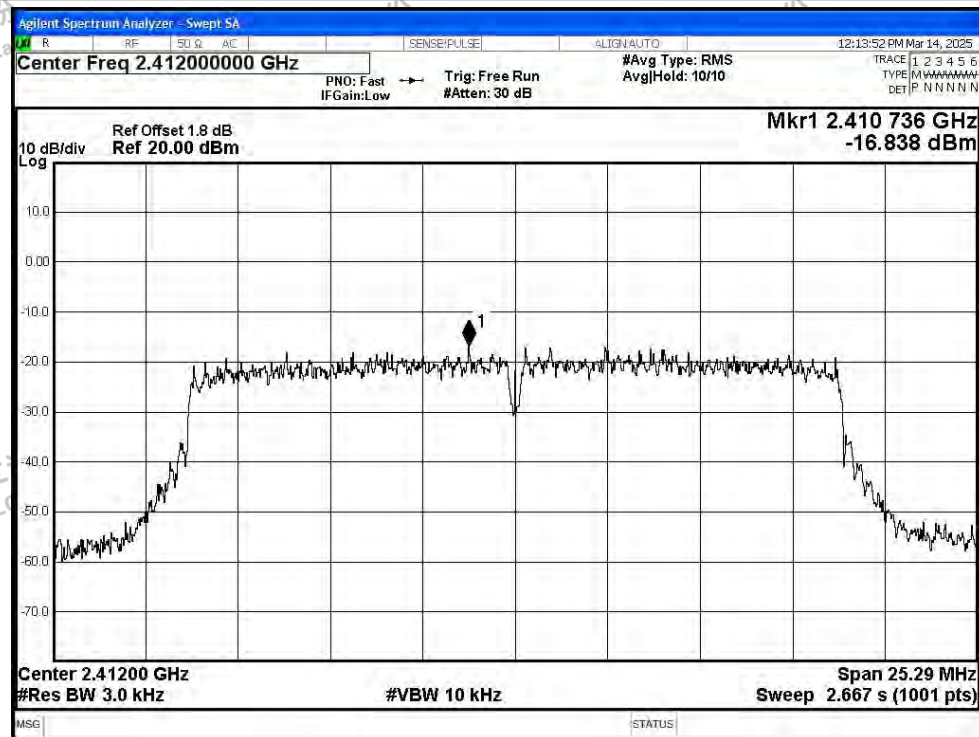
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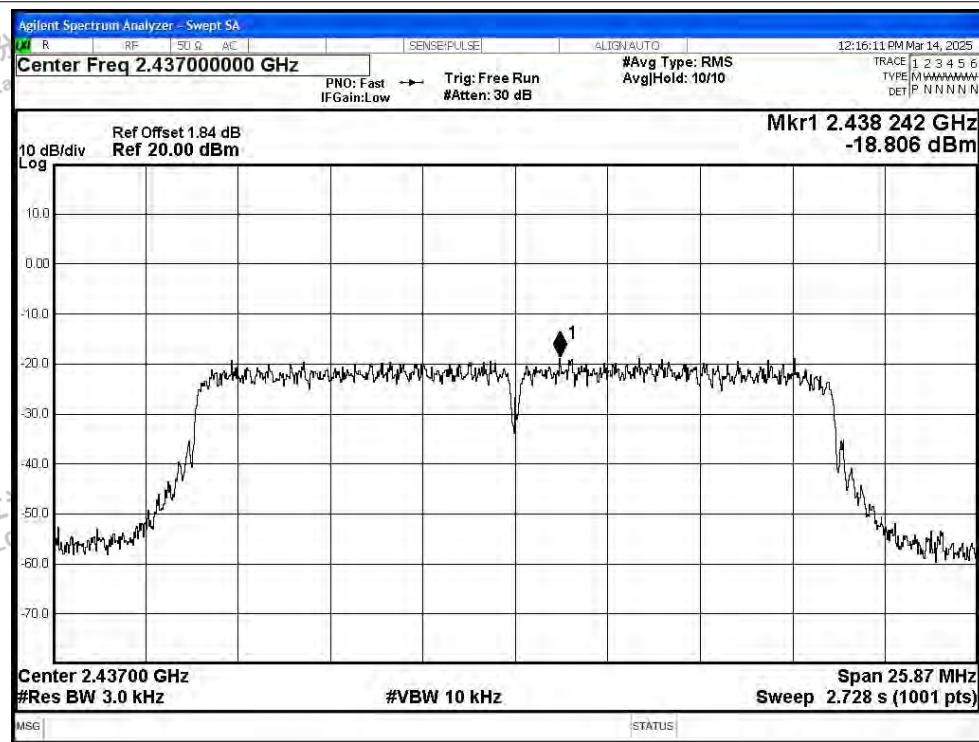


LCS-2025166EB

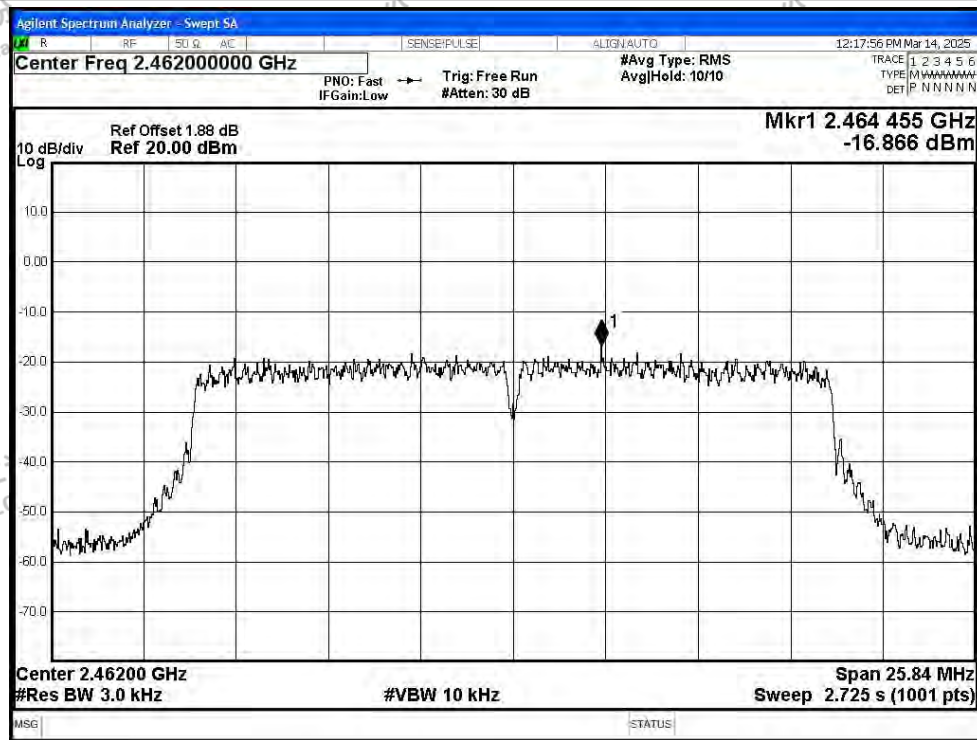
PSD NVNT ax20 2412MHz Ant1



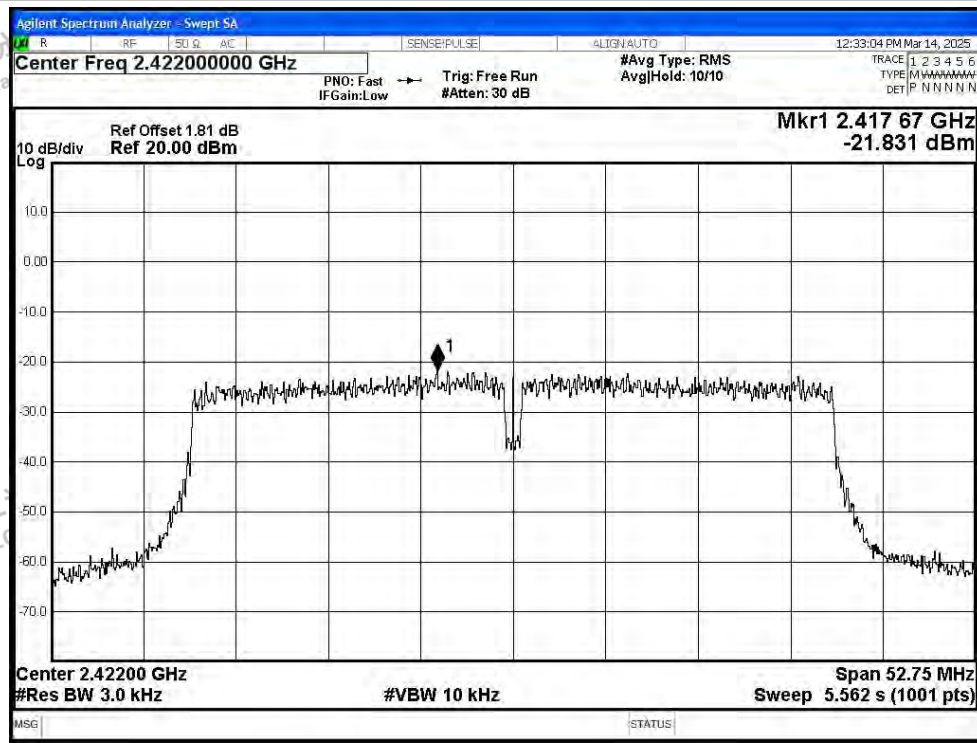
PSD NVNT ax20 2437MHz Ant1

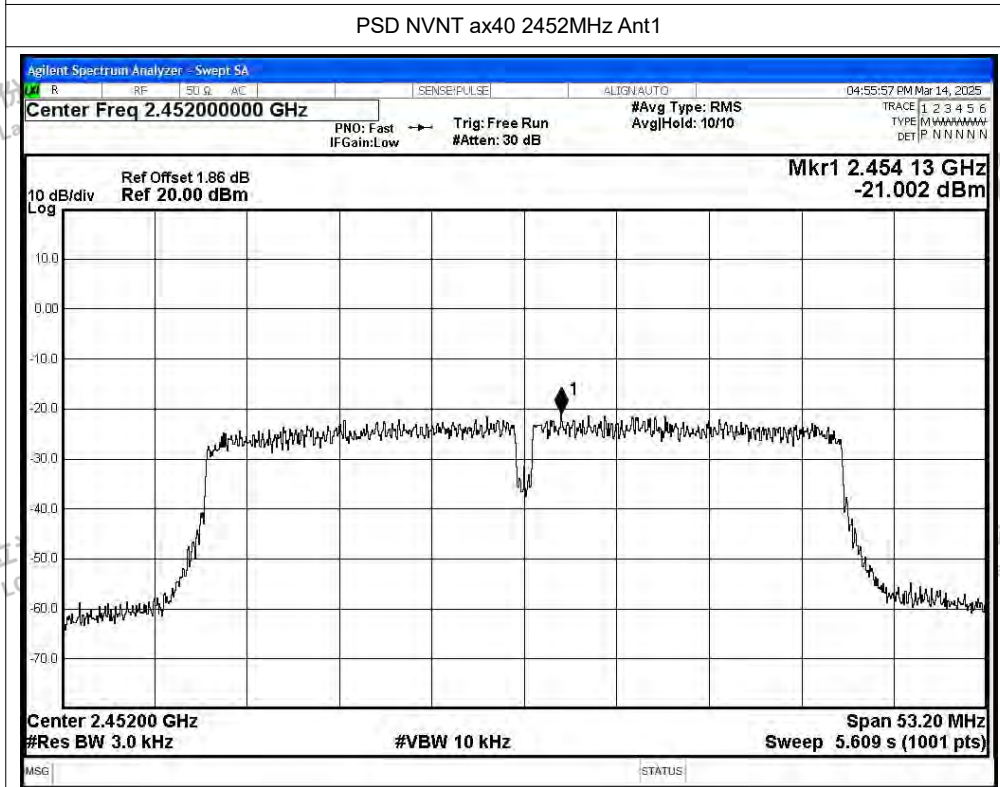
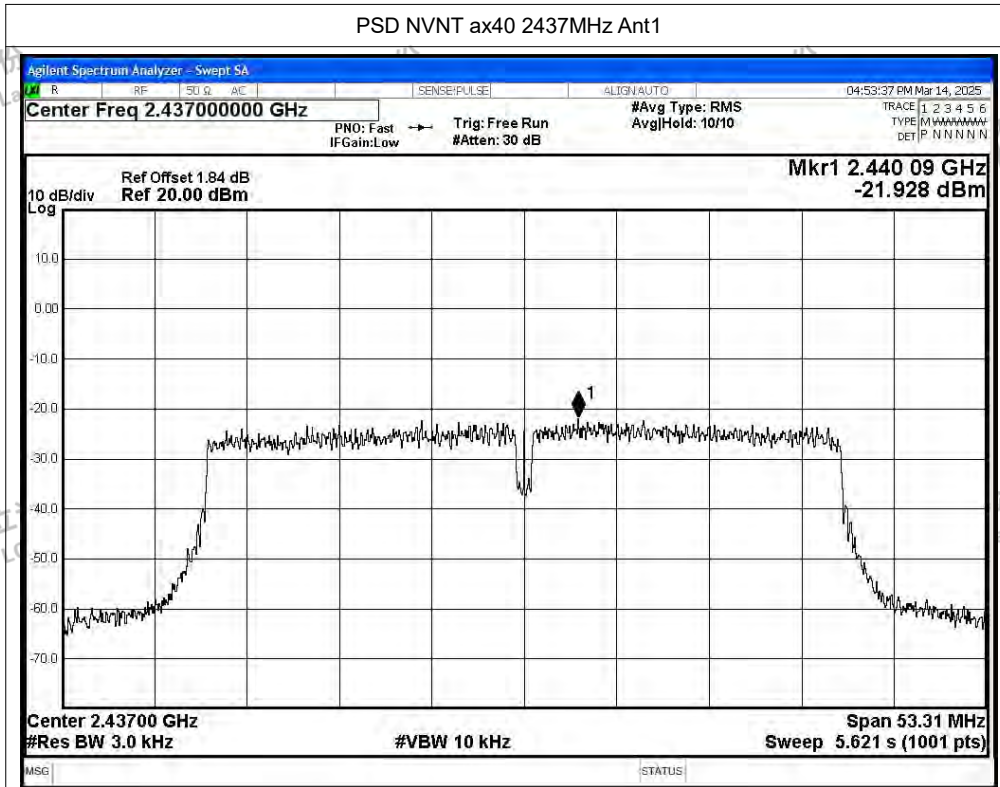


PSD NVNT ax20 2462MHz Ant1



PSD NVNT ax40 2422MHz Ant1







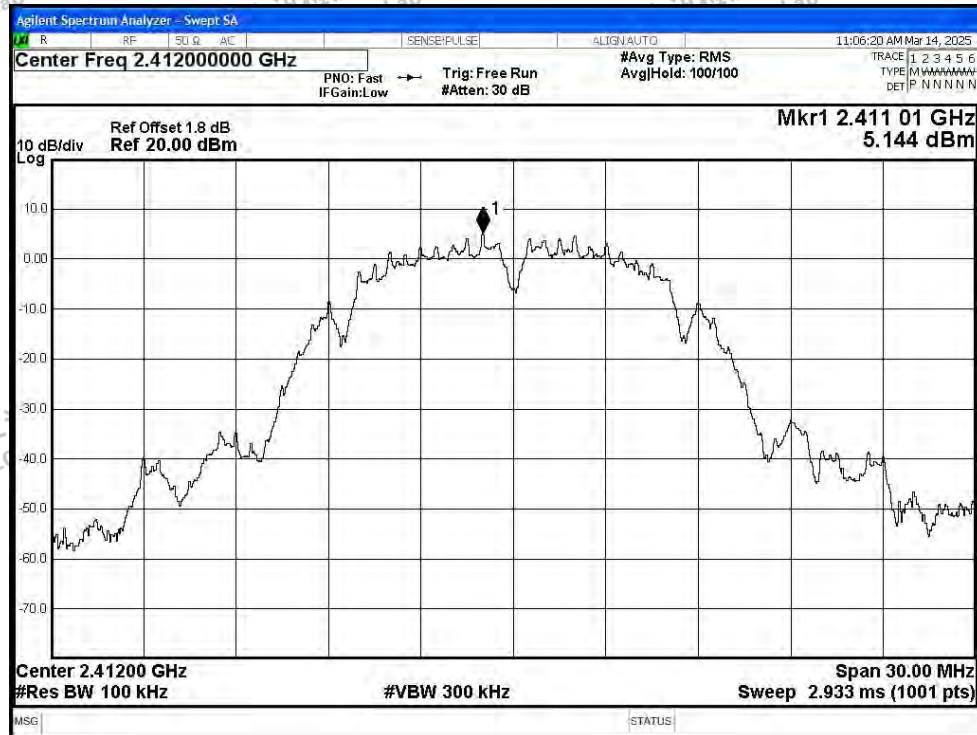
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.51	-20	Pass
NVNT	b	2462	Ant1	-61.16	-20	Pass
NVNT	g	2412	Ant1	-33.14	-20	Pass
NVNT	g	2462	Ant1	-43.34	-20	Pass
NVNT	n20	2412	Ant1	-29.61	-20	Pass
NVNT	n20	2462	Ant1	-44.13	-20	Pass
NVNT	n40	2422	Ant1	-34.41	-20	Pass
NVNT	n40	2452	Ant1	-39.6	-20	Pass
NVNT	ax20	2412	Ant1	-29.53	-20	Pass
NVNT	ax20	2462	Ant1	-41.5	-20	Pass
NVNT	ax40	2422	Ant1	-31.22	-20	Pass
NVNT	ax40	2452	Ant1	-33.22	-20	Pass

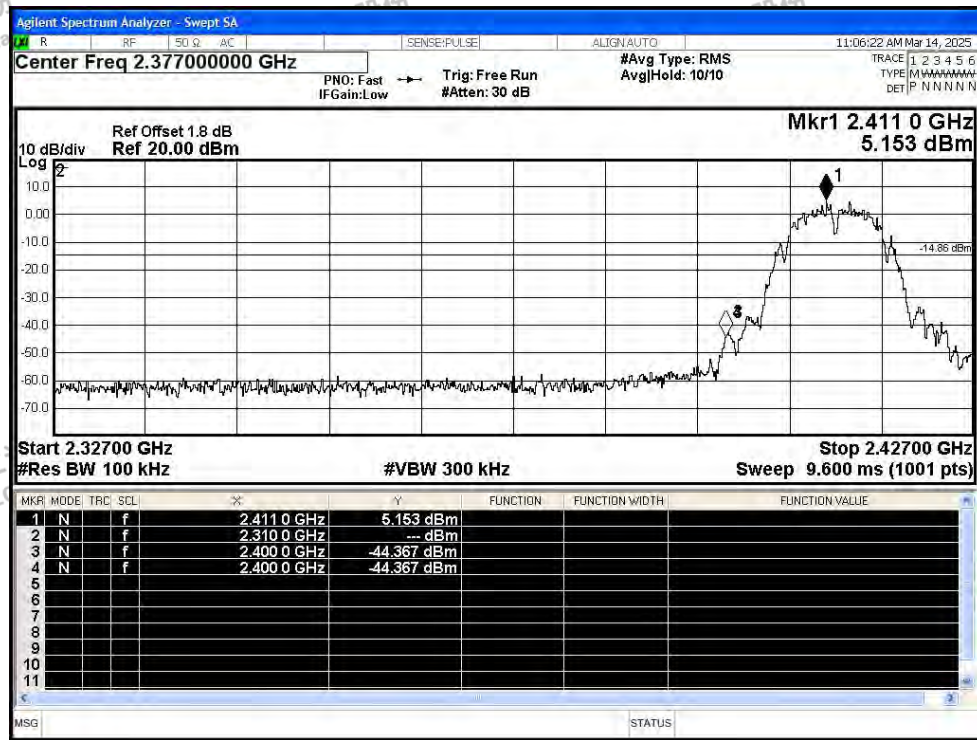


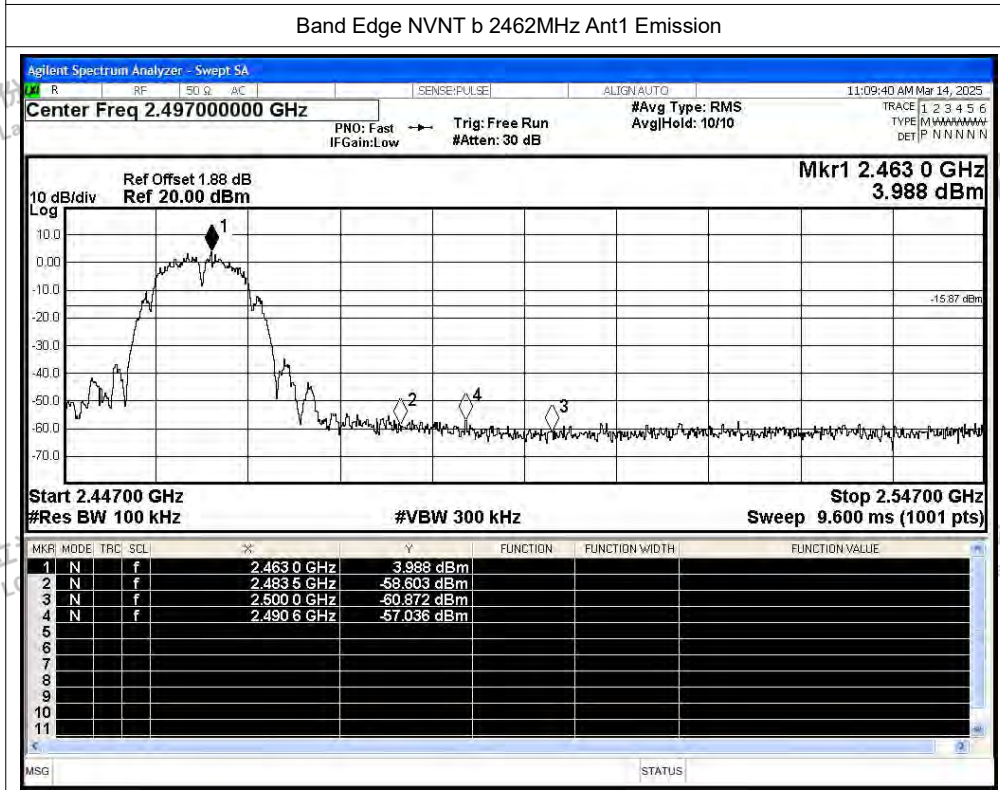
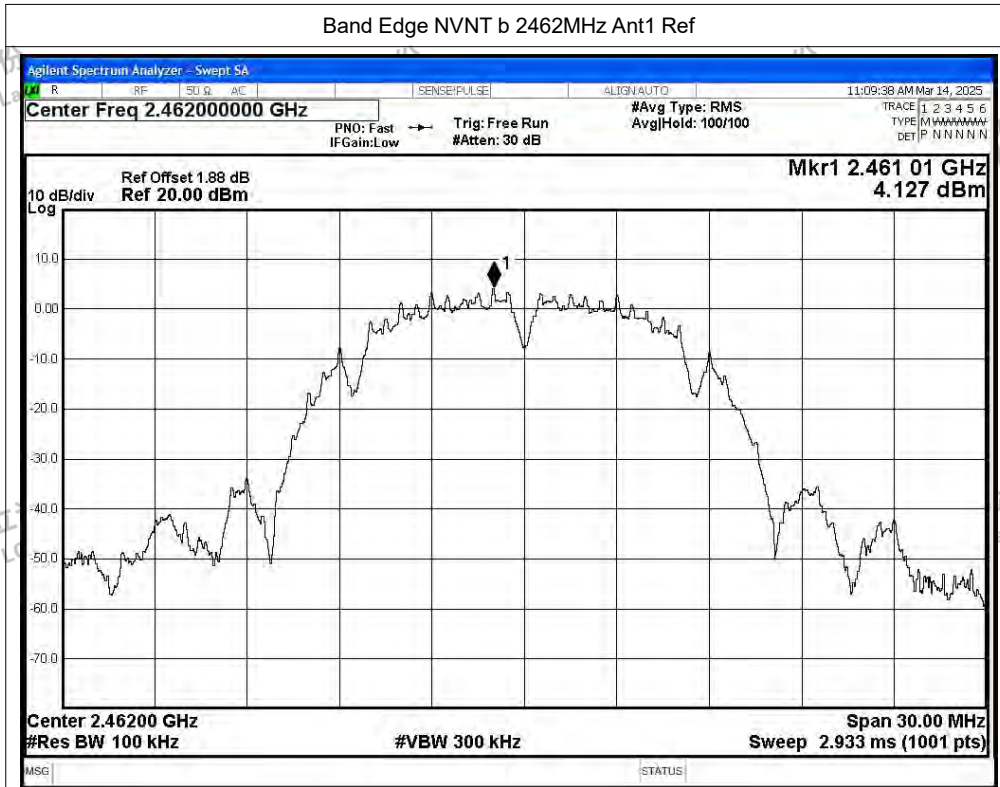
Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

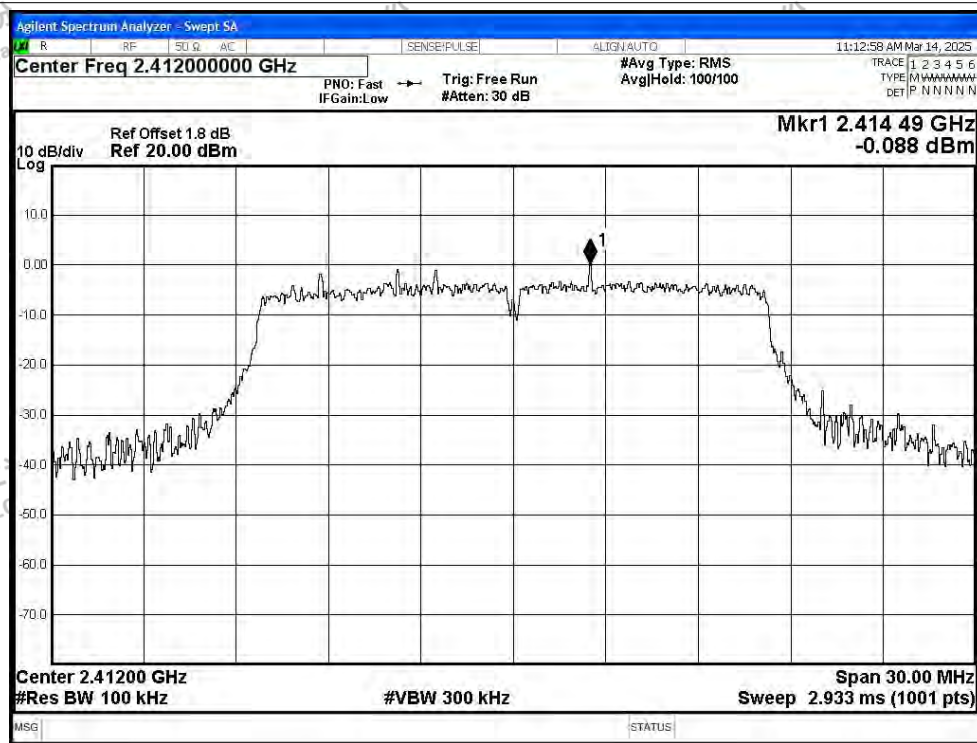


Band Edge NVNT b 2412MHz Ant1 Emission

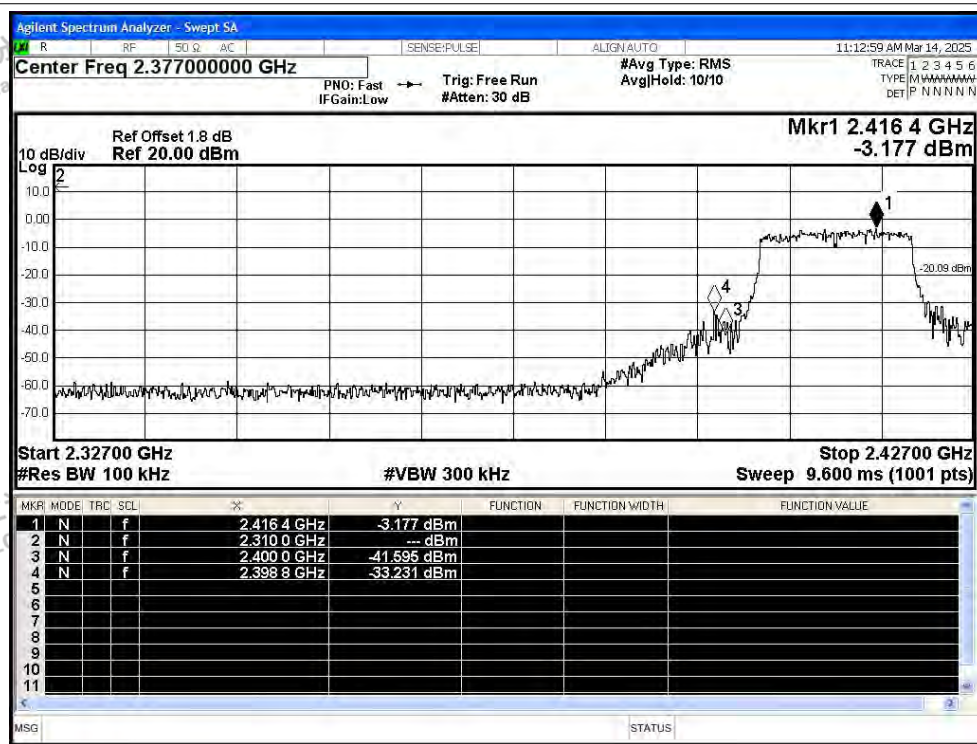




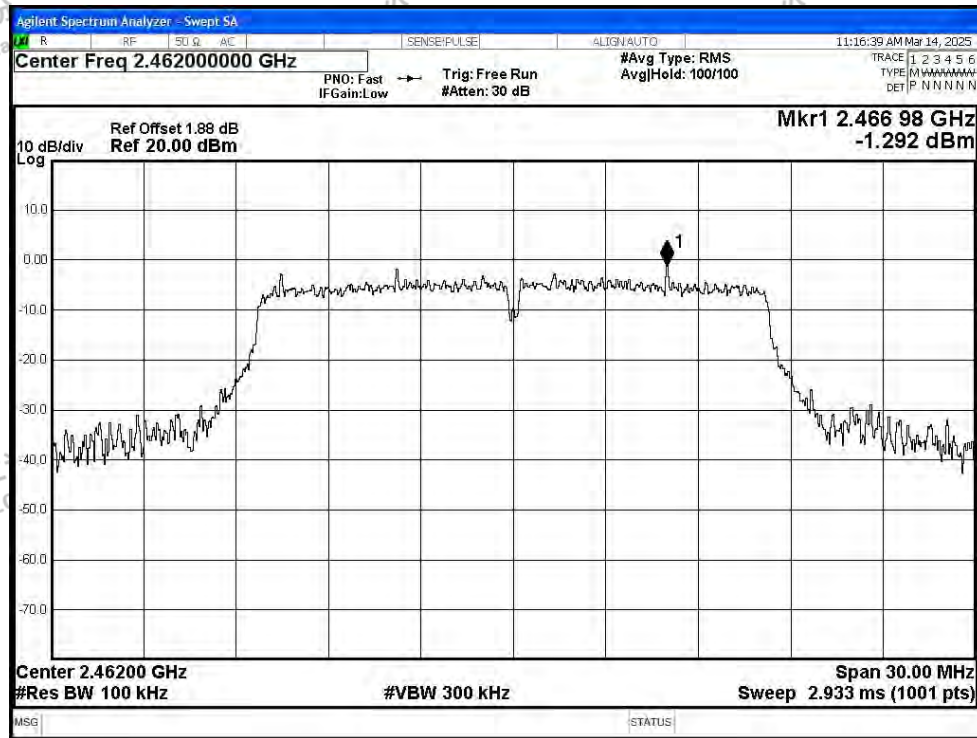
Band Edge NVNT g 2412MHz Ant1 Ref



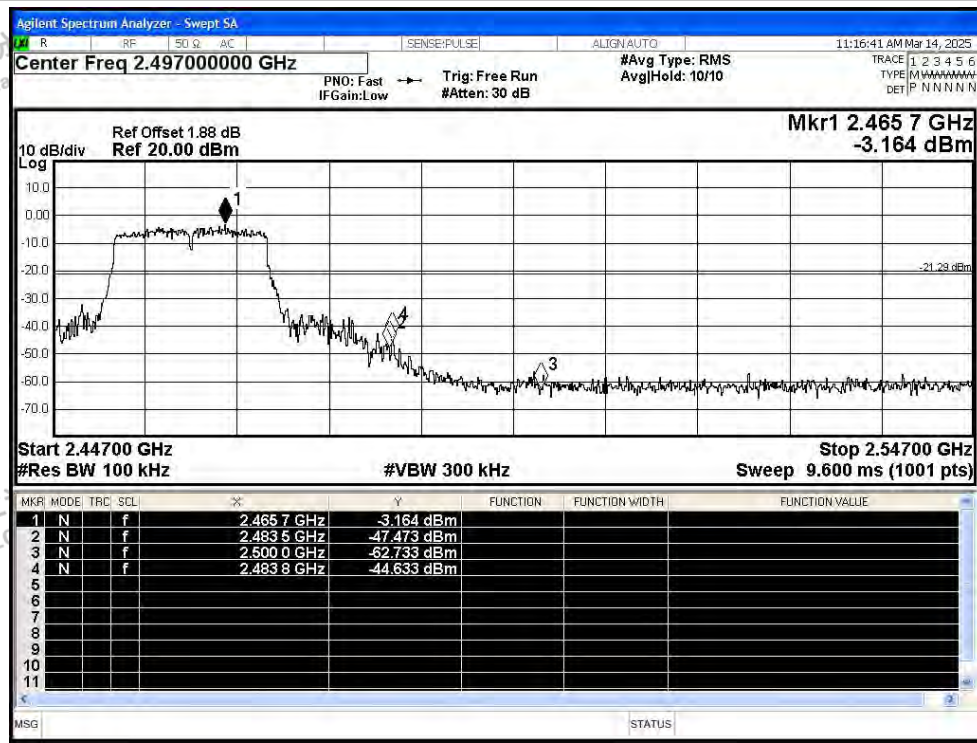
Band Edge NVNT g 2412MHz Ant1 Emission



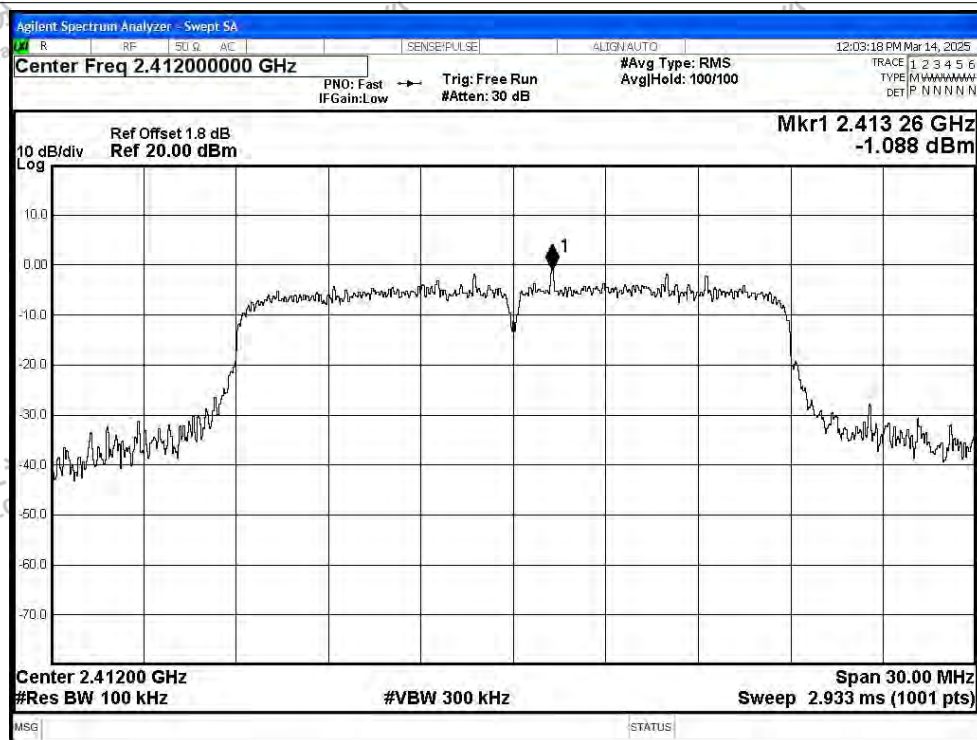
Band Edge NVNT g 2462MHz Ant1 Ref



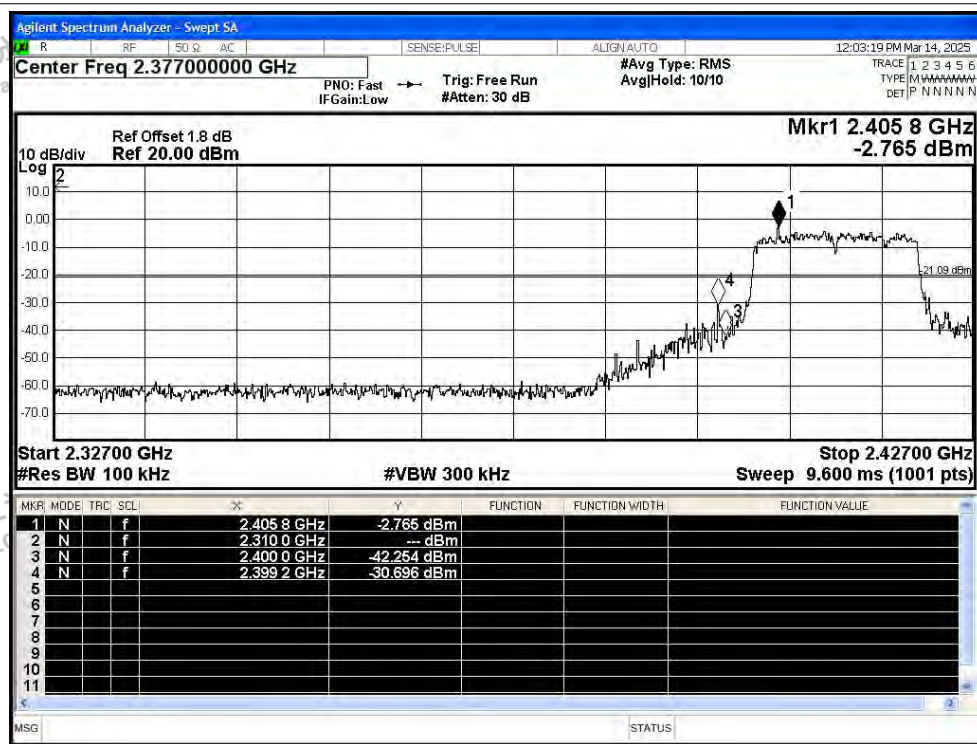
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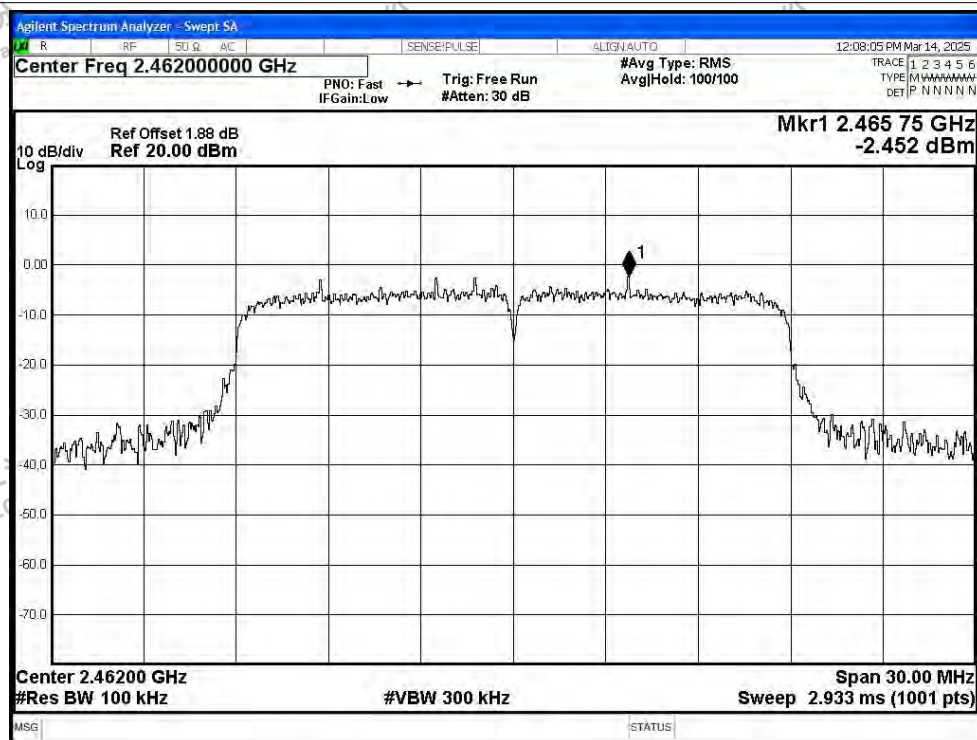
Band Edge NVNT n20 2412MHz Ant1 Ref



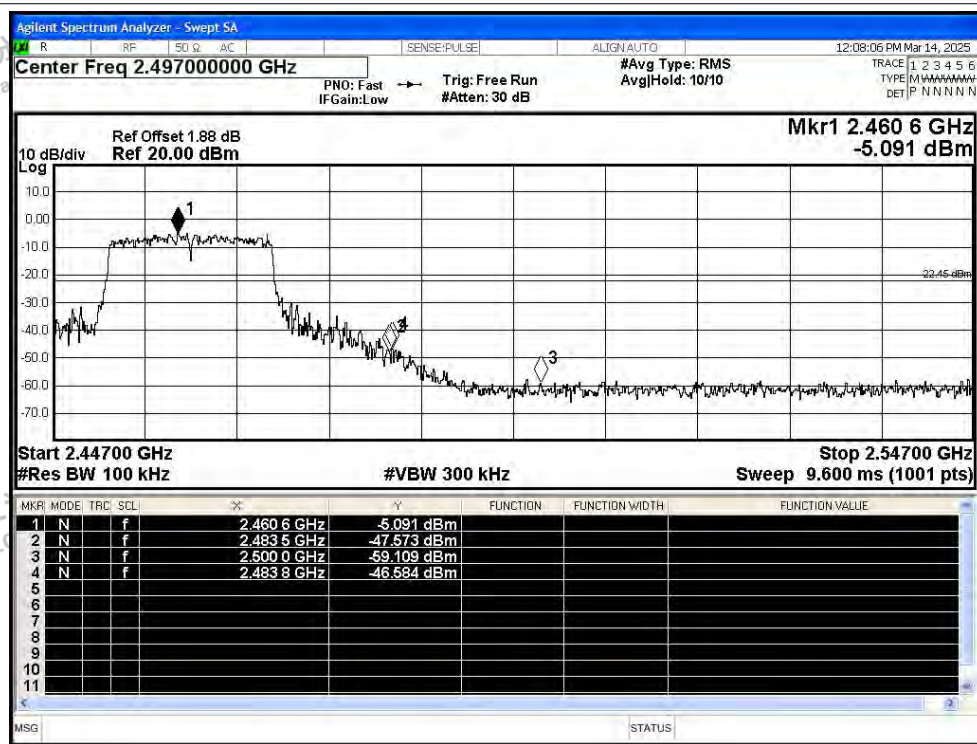
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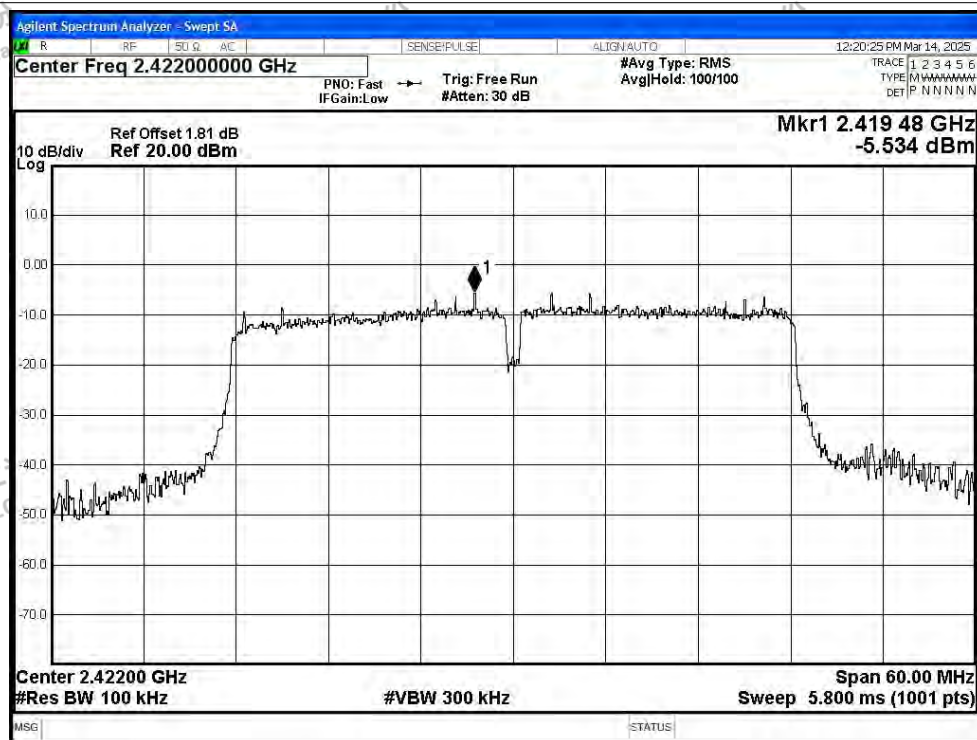
Band Edge NVNT n20 2462MHz Ant1 Ref



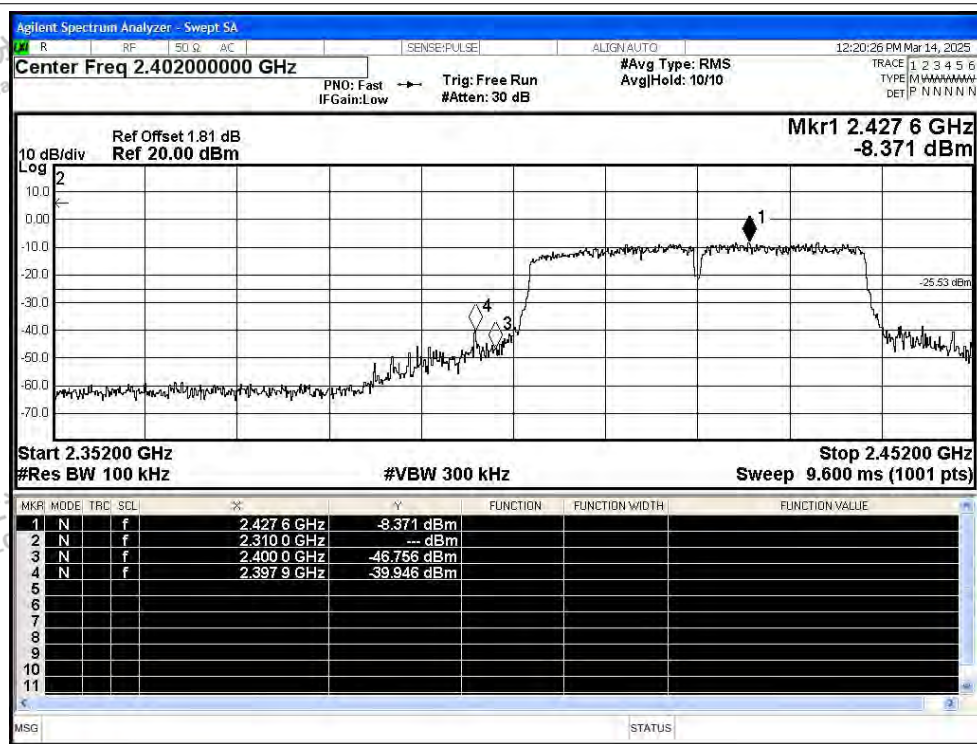
Band Edge NVNT n20 2462MHz Ant1 Emission

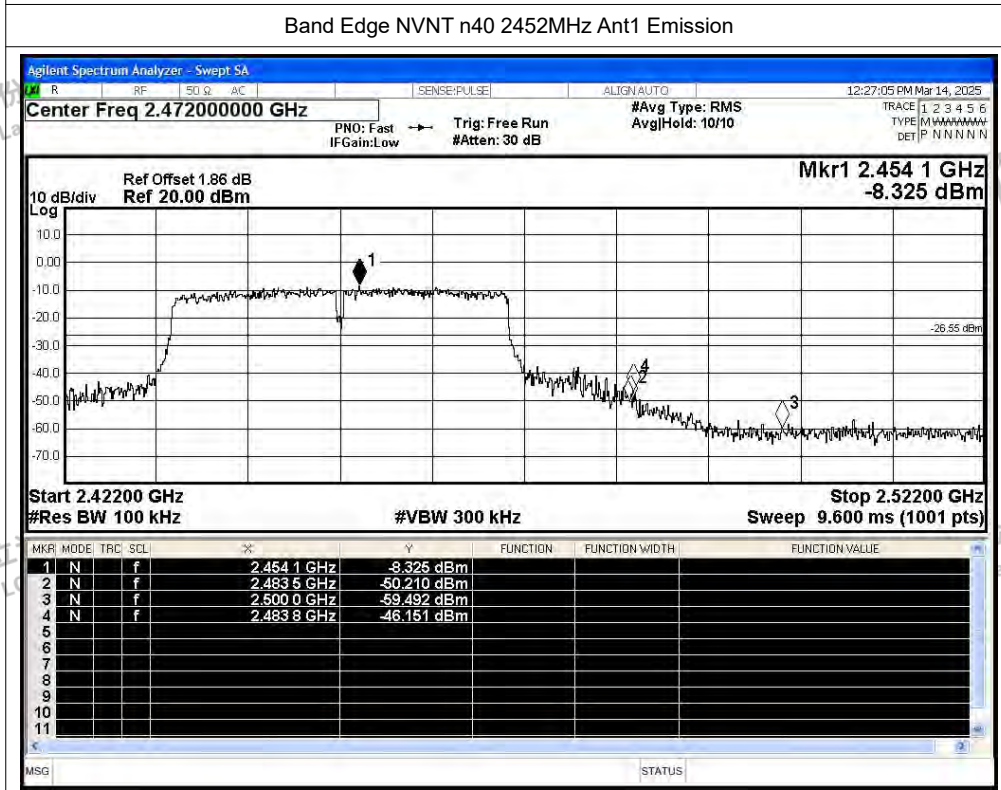
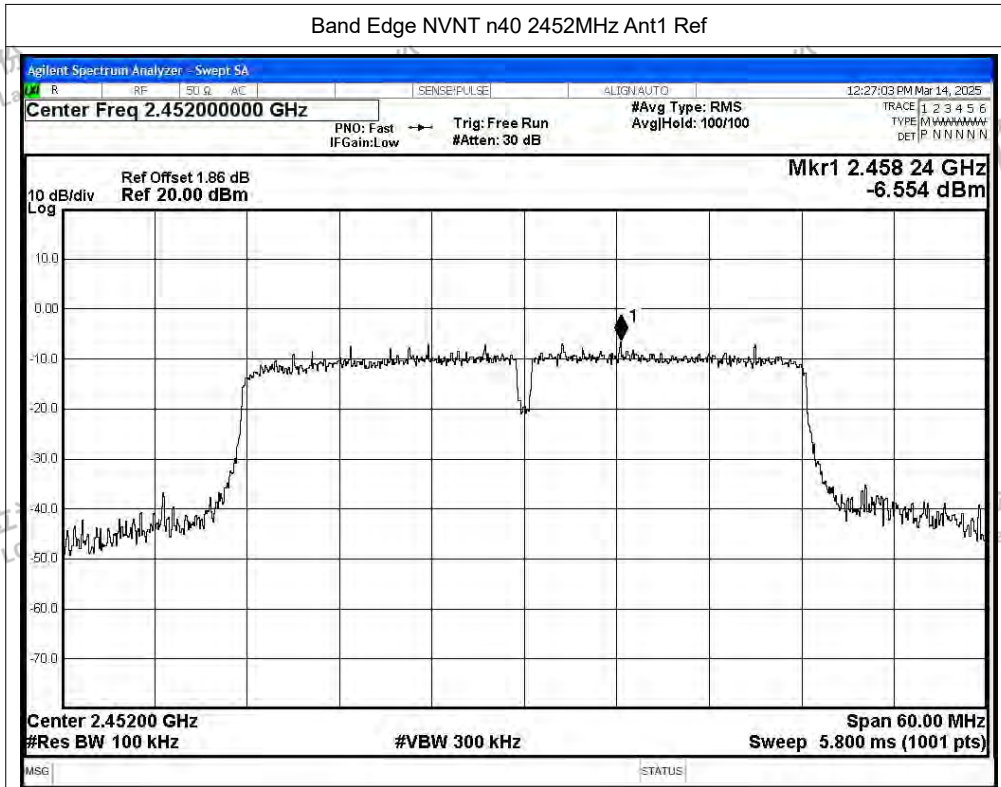


Band Edge NVNT n40 2422MHz Ant1 Ref

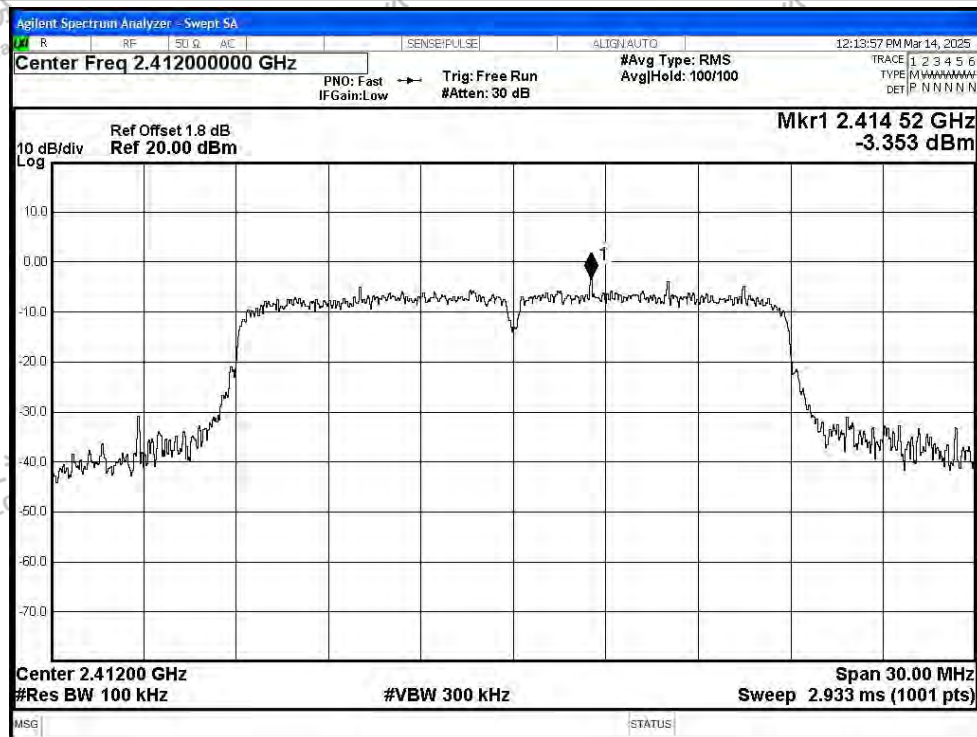


Band Edge NVNT n40 2422MHz Ant1 Emission

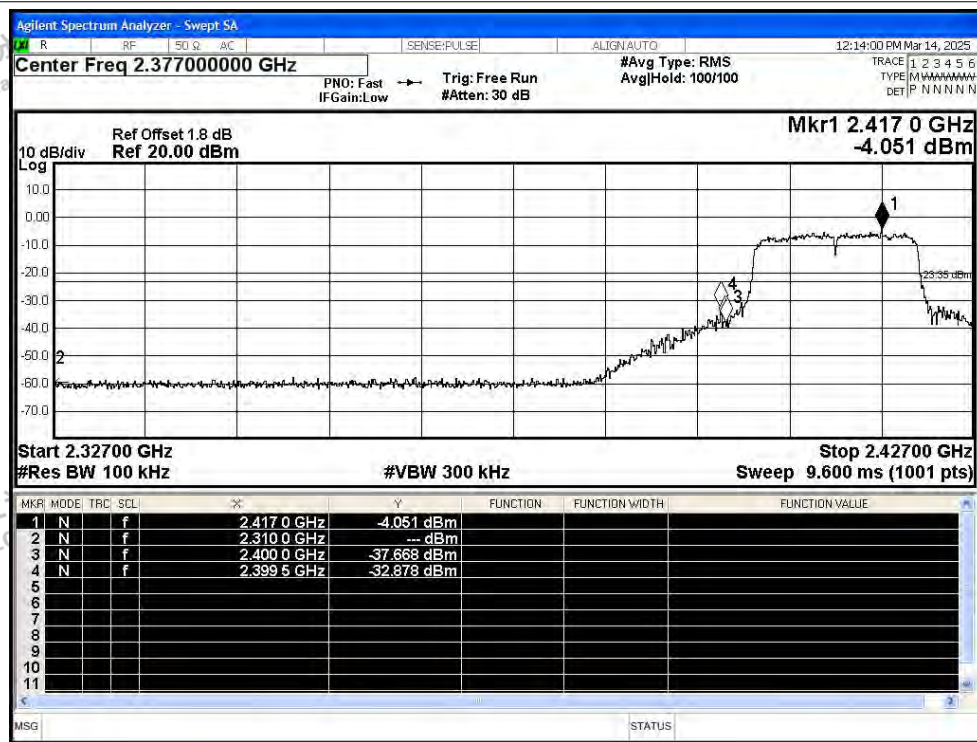


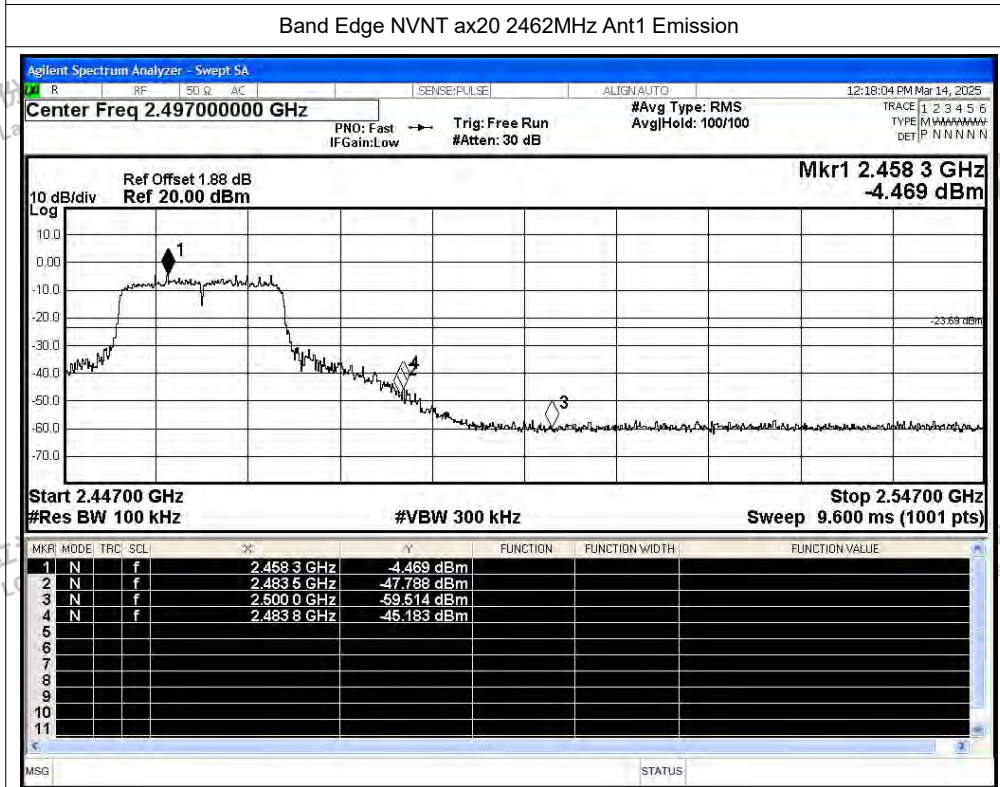
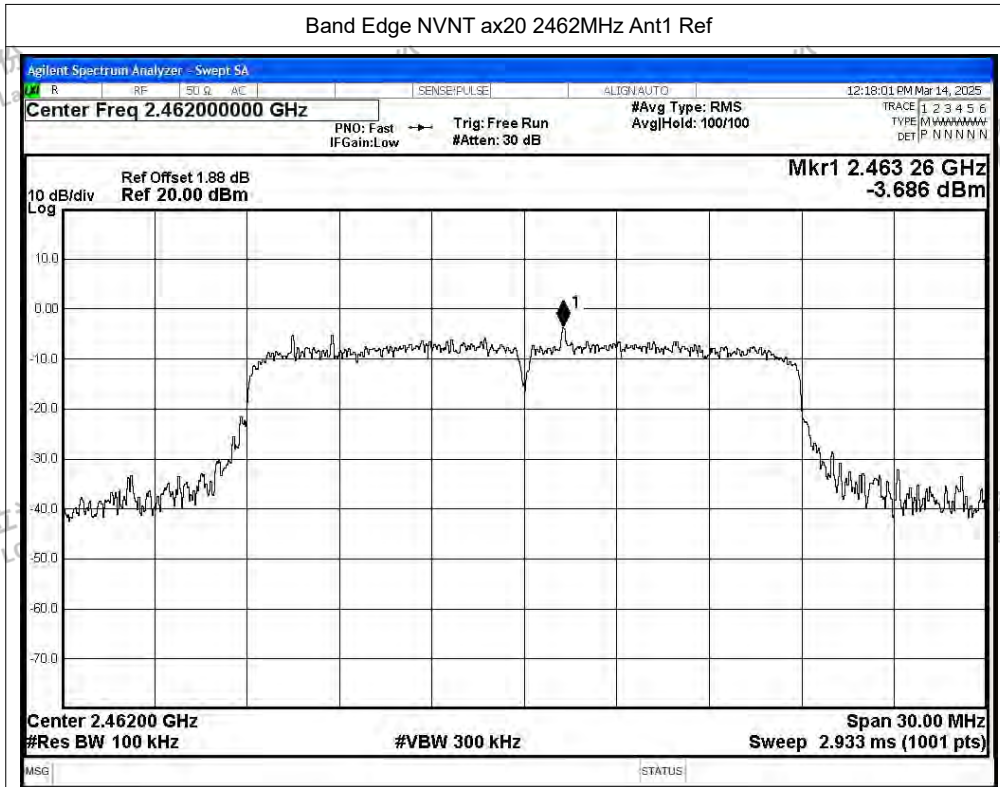


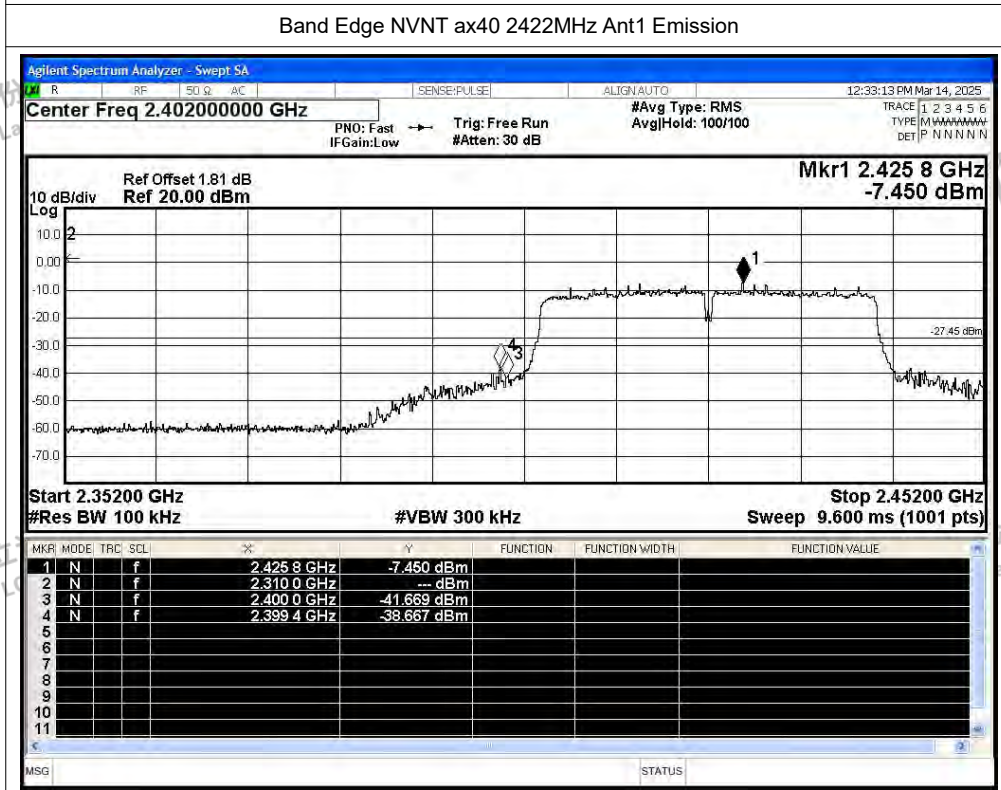
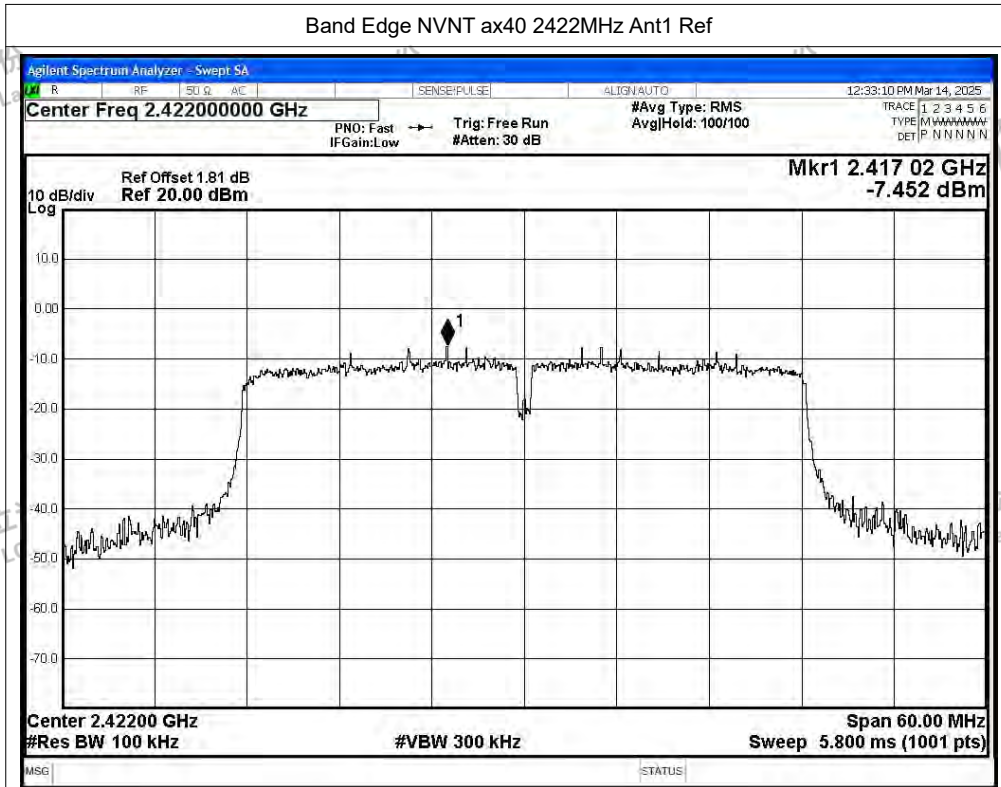
Band Edge NVNT ax20 2412MHz Ant1 Ref



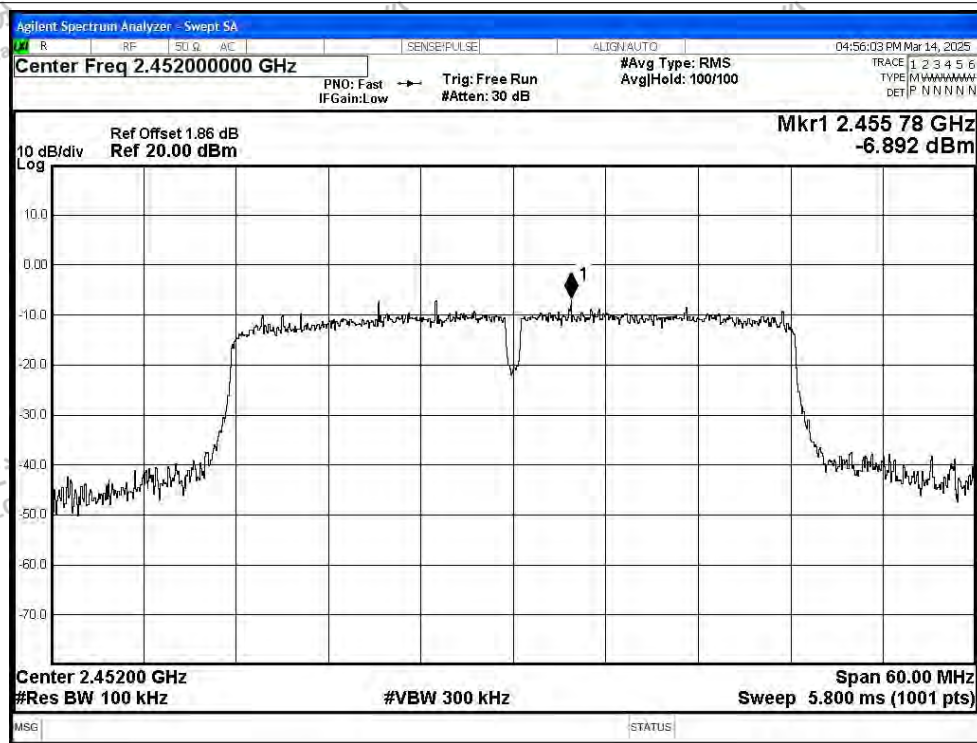
Band Edge NVNT ax20 2412MHz Ant1 Emission



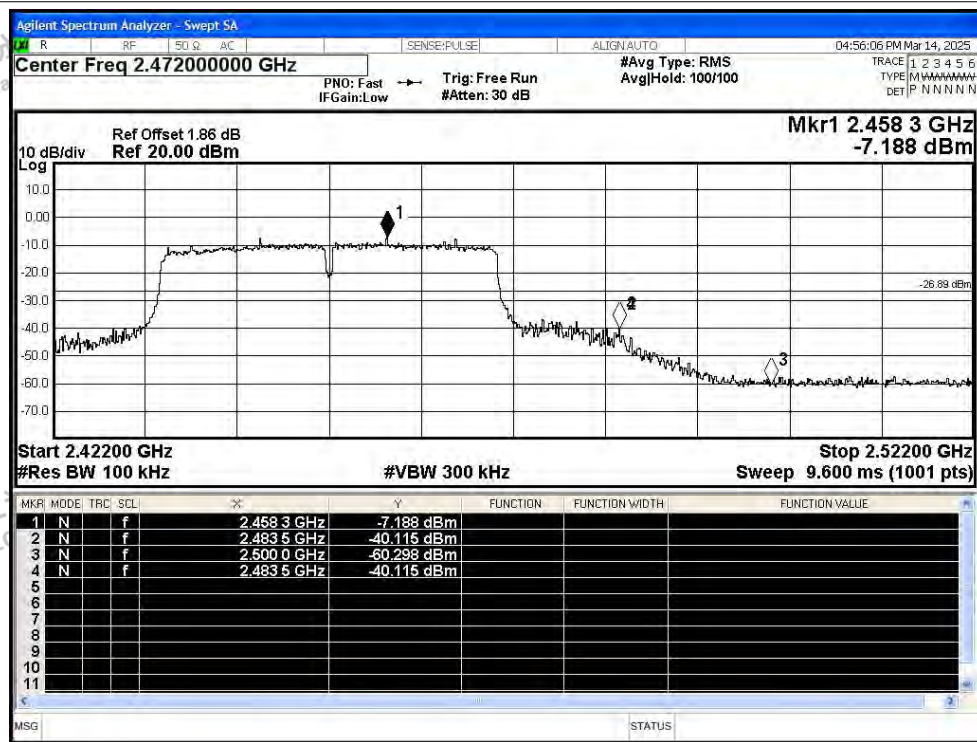




Band Edge NVNT ax40 2452MHz Ant1 Ref



Band Edge NVNT ax40 2452MHz Ant1 Emission





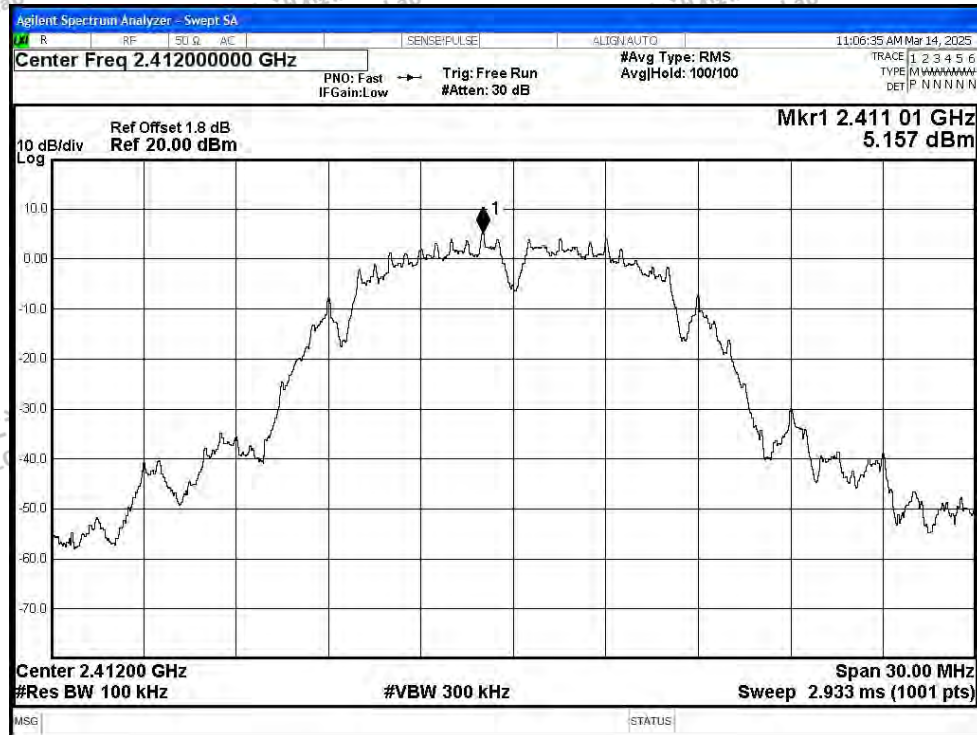
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.44	-20	Pass
NVNT	b	2437	Ant1	-49.74	-20	Pass
NVNT	b	2462	Ant1	-50.31	-20	Pass
NVNT	g	2412	Ant1	-45.87	-20	Pass
NVNT	g	2437	Ant1	-44.82	-20	Pass
NVNT	g	2462	Ant1	-45.2	-20	Pass
NVNT	n20	2412	Ant1	-44.55	-20	Pass
NVNT	n20	2437	Ant1	-42.52	-20	Pass
NVNT	n20	2462	Ant1	-43.26	-20	Pass
NVNT	n40	2422	Ant1	-38.42	-20	Pass
NVNT	n40	2437	Ant1	-38.07	-20	Pass
NVNT	n40	2452	Ant1	-39.24	-20	Pass
NVNT	ax20	2412	Ant1	-41.89	-20	Pass
NVNT	ax20	2437	Ant1	-40.61	-20	Pass
NVNT	ax20	2462	Ant1	-41.57	-20	Pass
NVNT	ax40	2422	Ant1	-37.93	-20	Pass
NVNT	ax40	2437	Ant1	-37.22	-20	Pass
NVNT	ax40	2452	Ant1	-38.15	-20	Pass

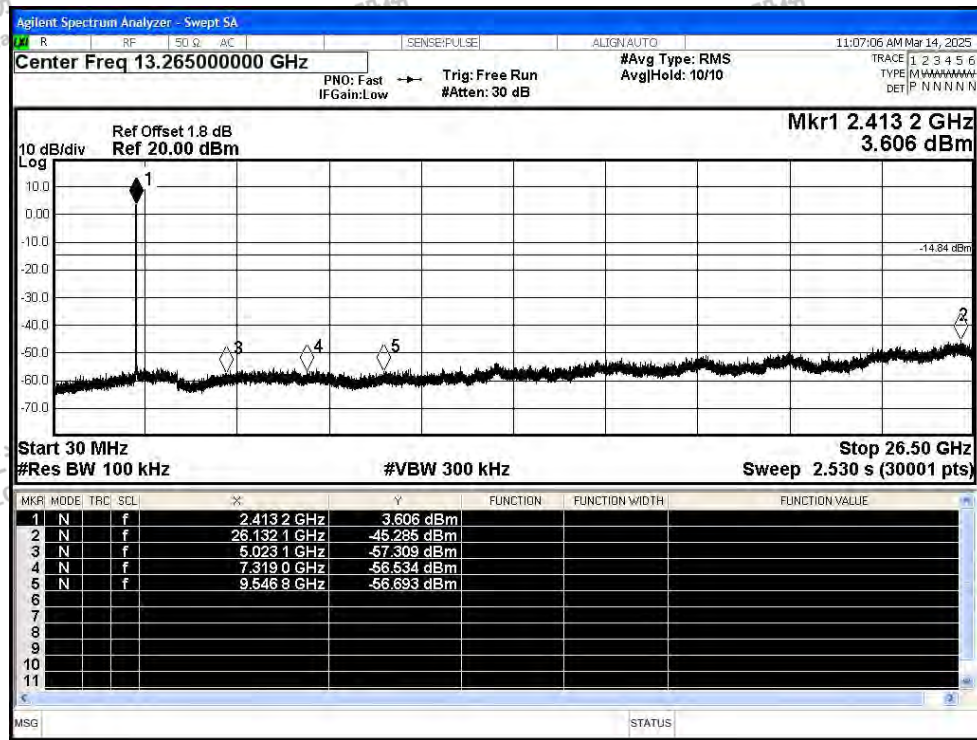


Test Graphs

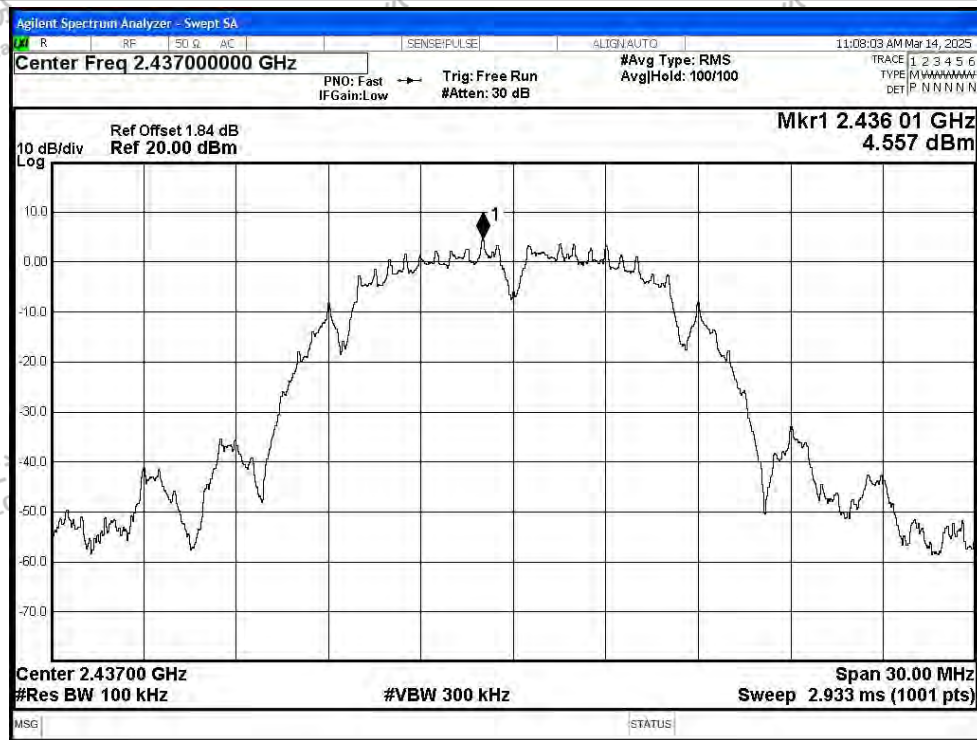
Tx. Spurious NVNT b 2412MHz Ant1 Ref



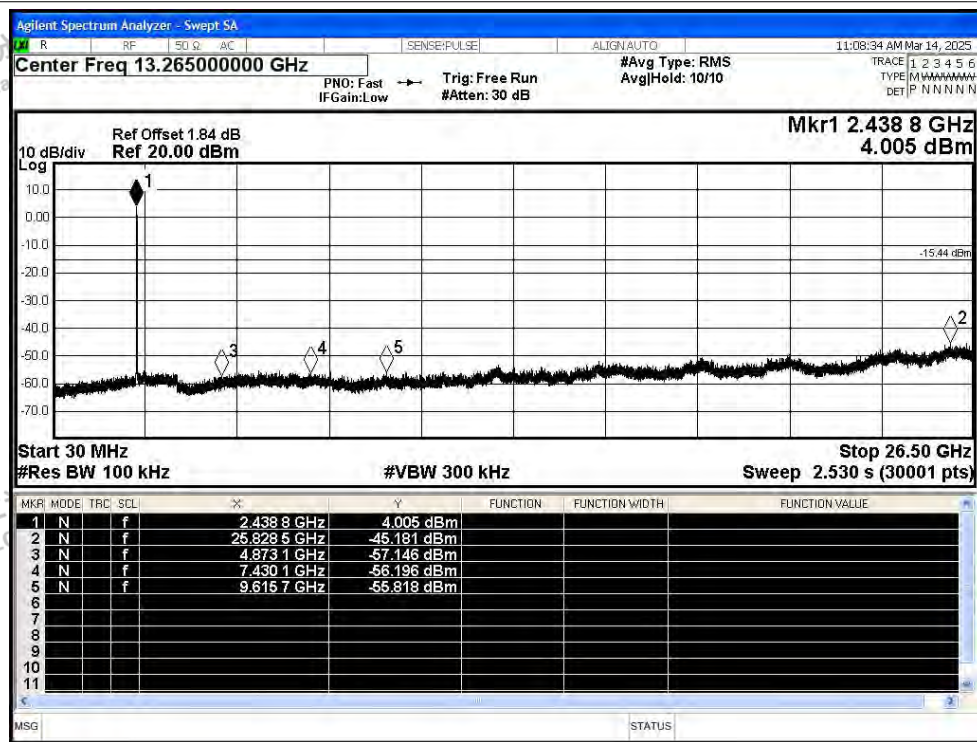
Tx. Spurious NVNT b 2412MHz Ant1 Emission



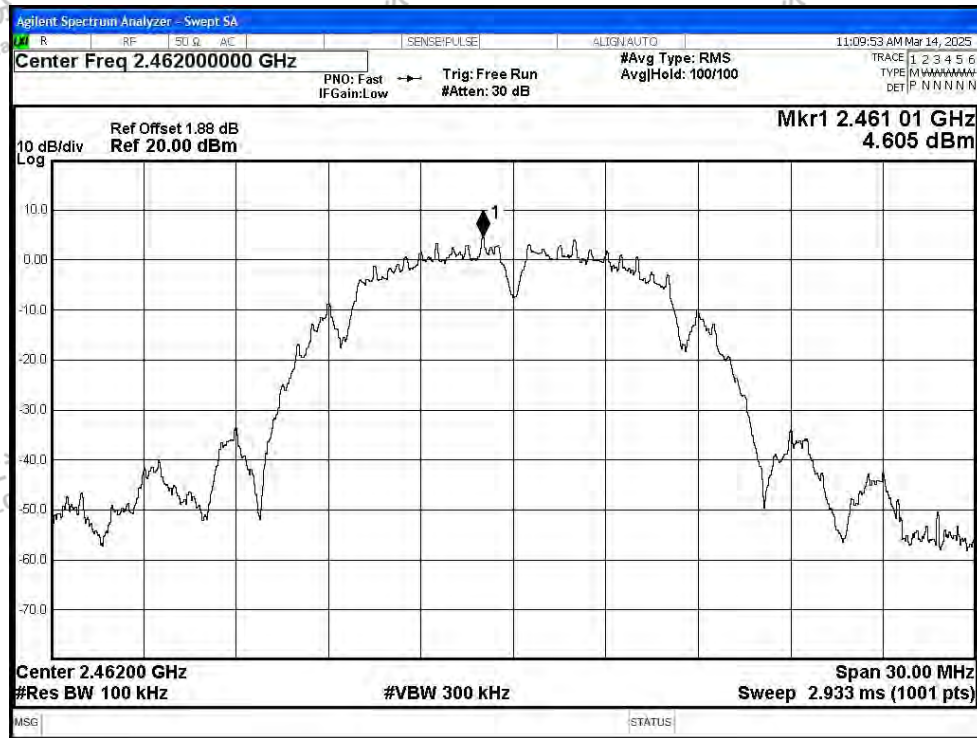
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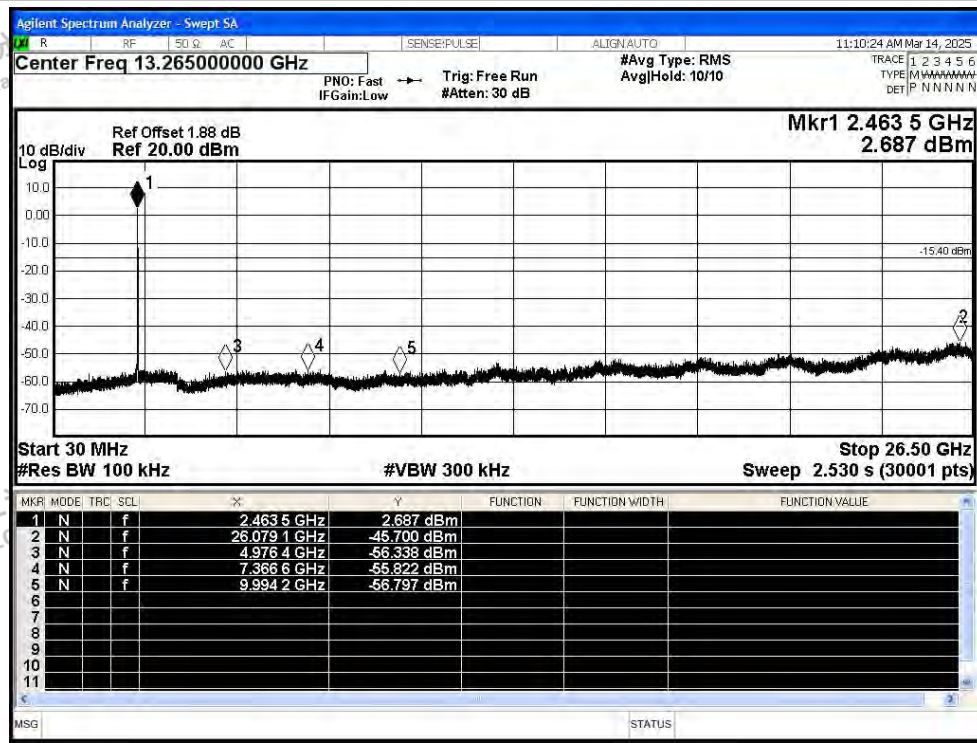
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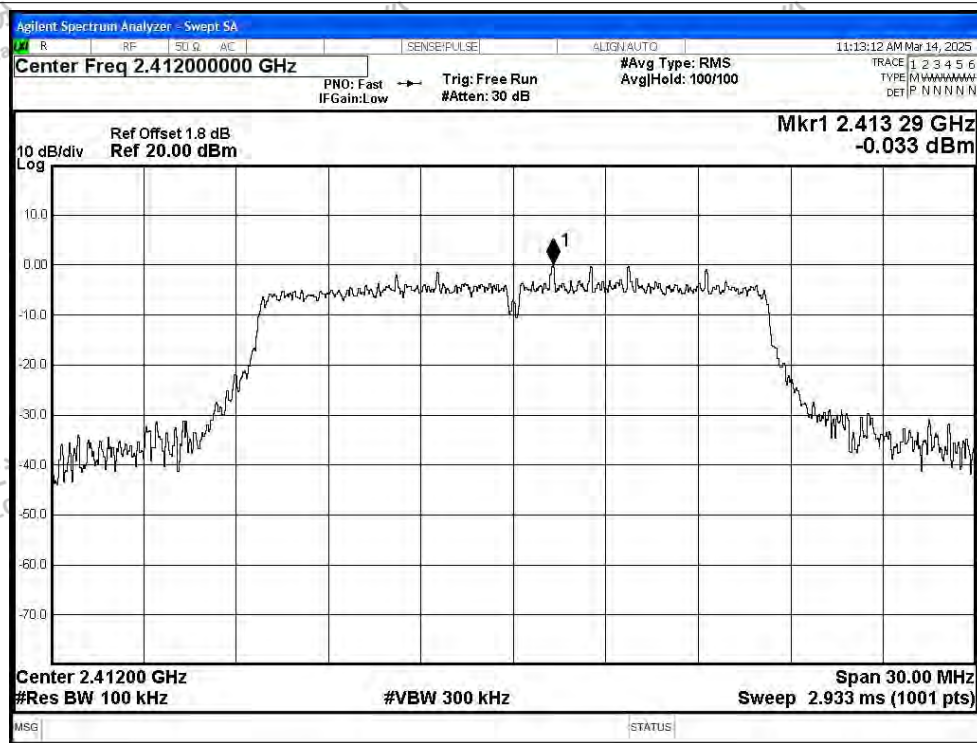
Tx. Spurious NVNT b 2462MHz Ant1 Ref



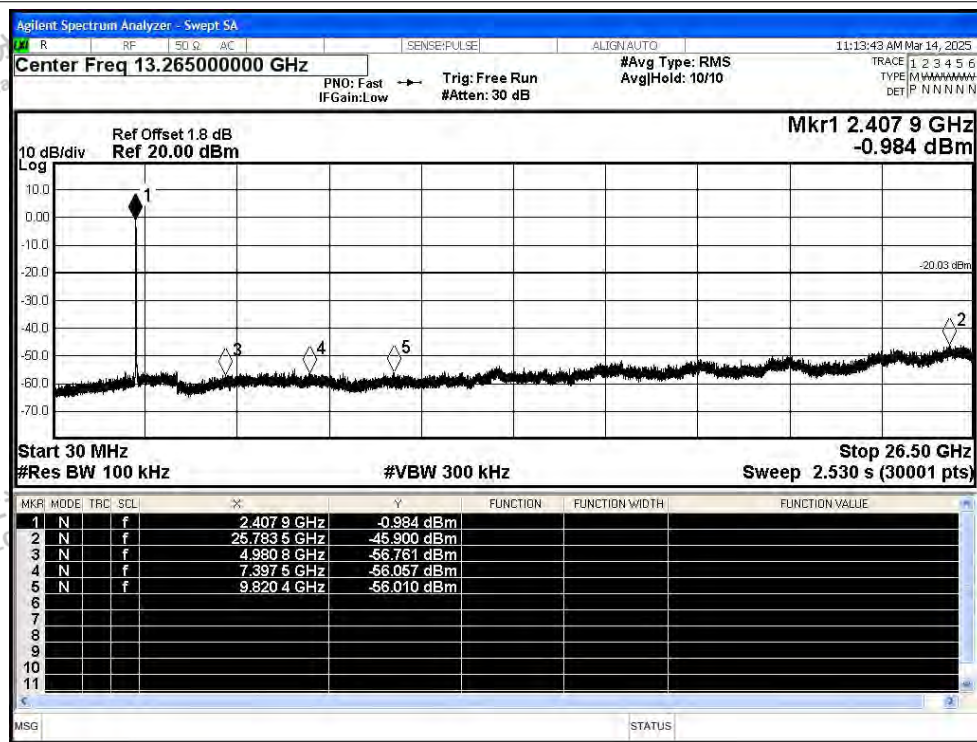
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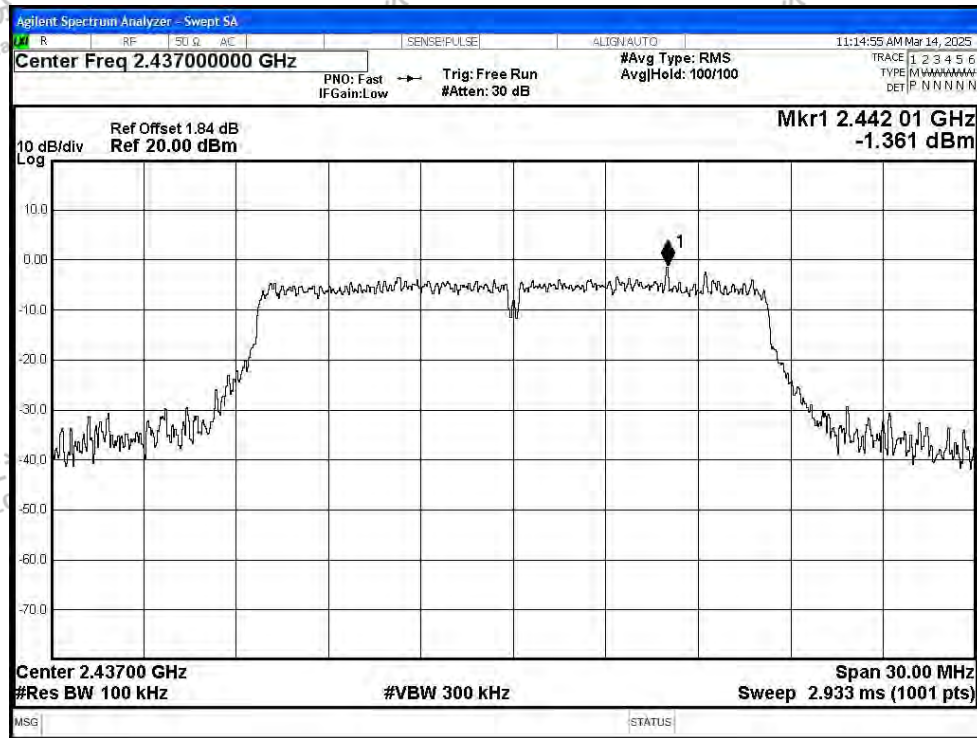
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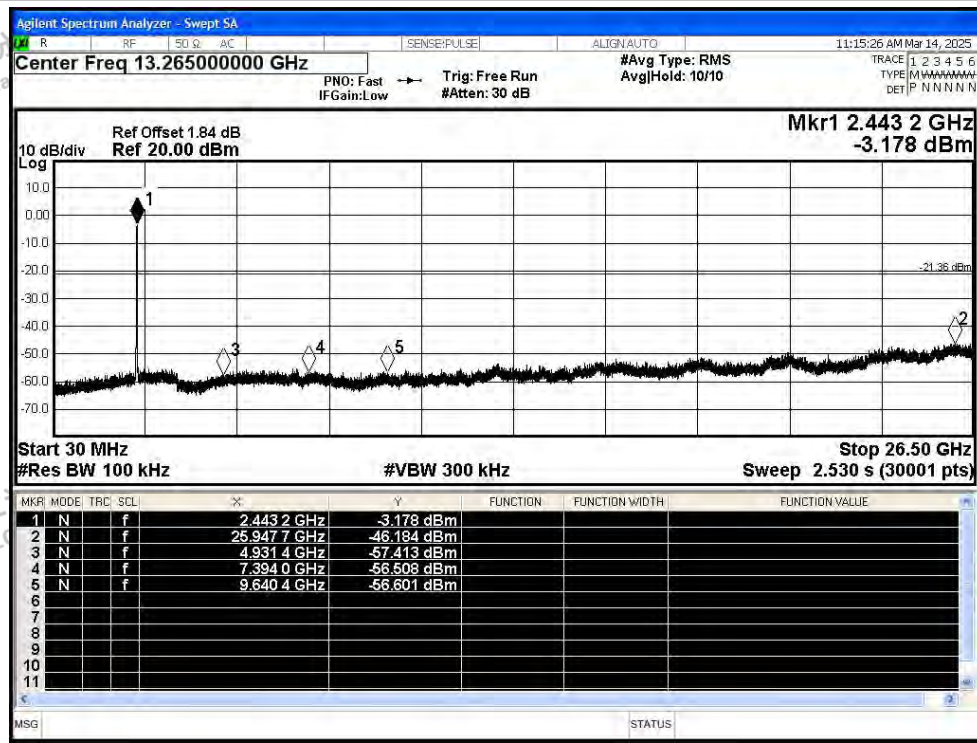
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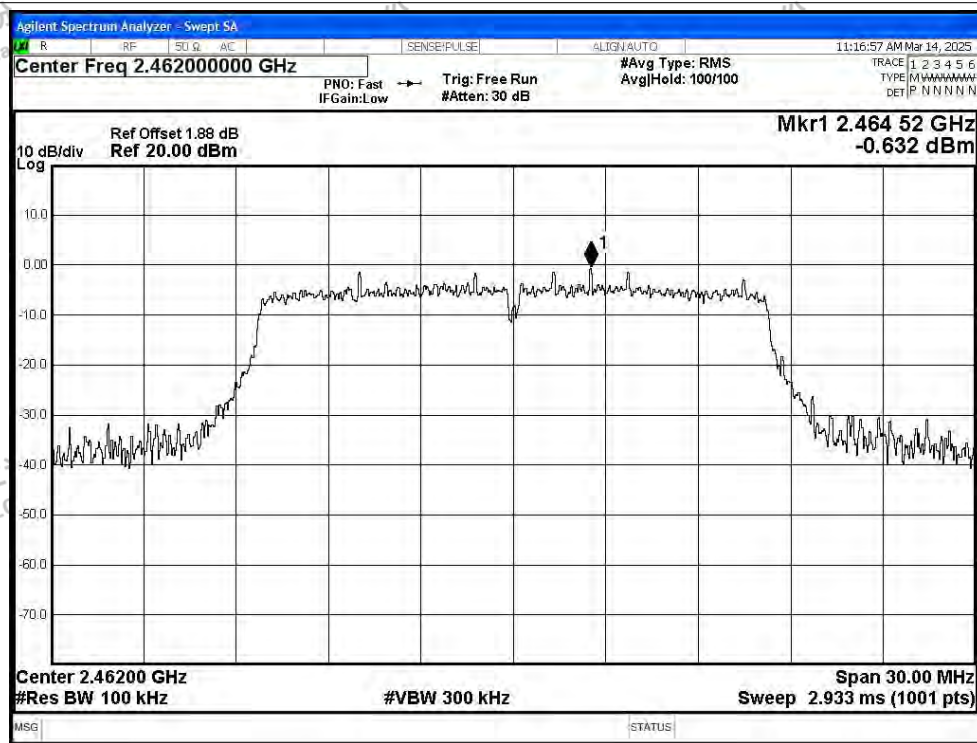
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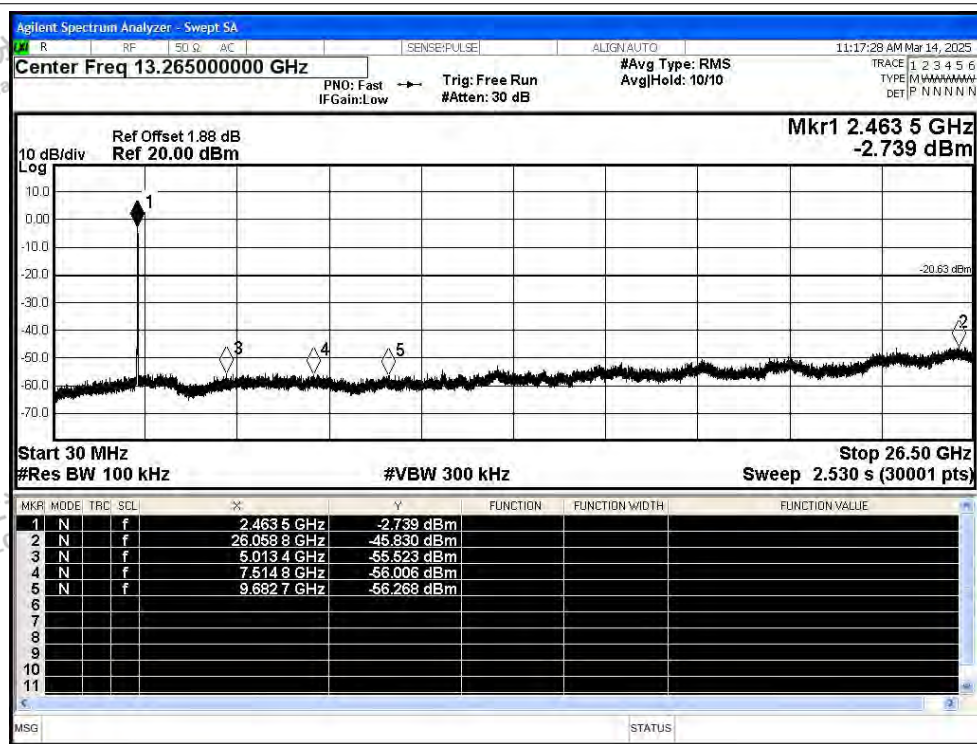
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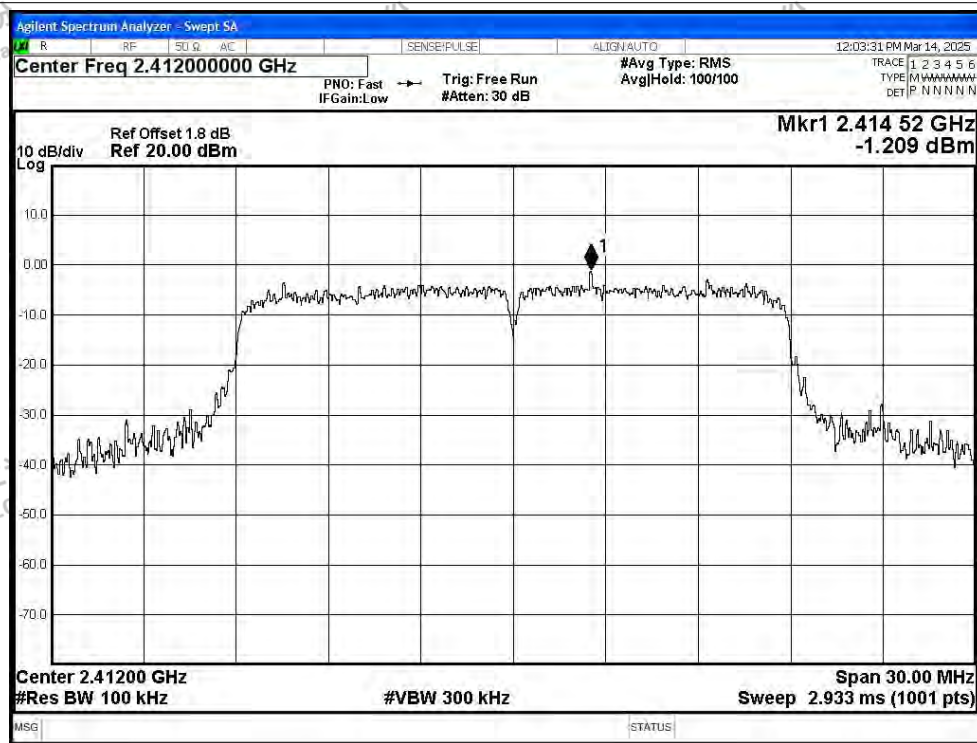
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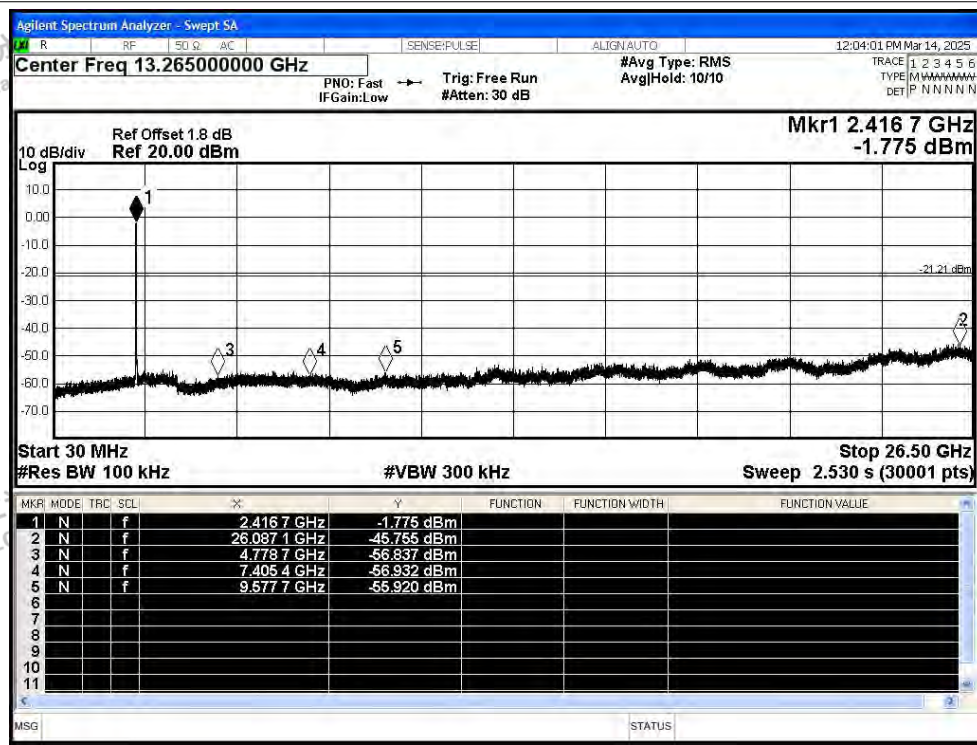
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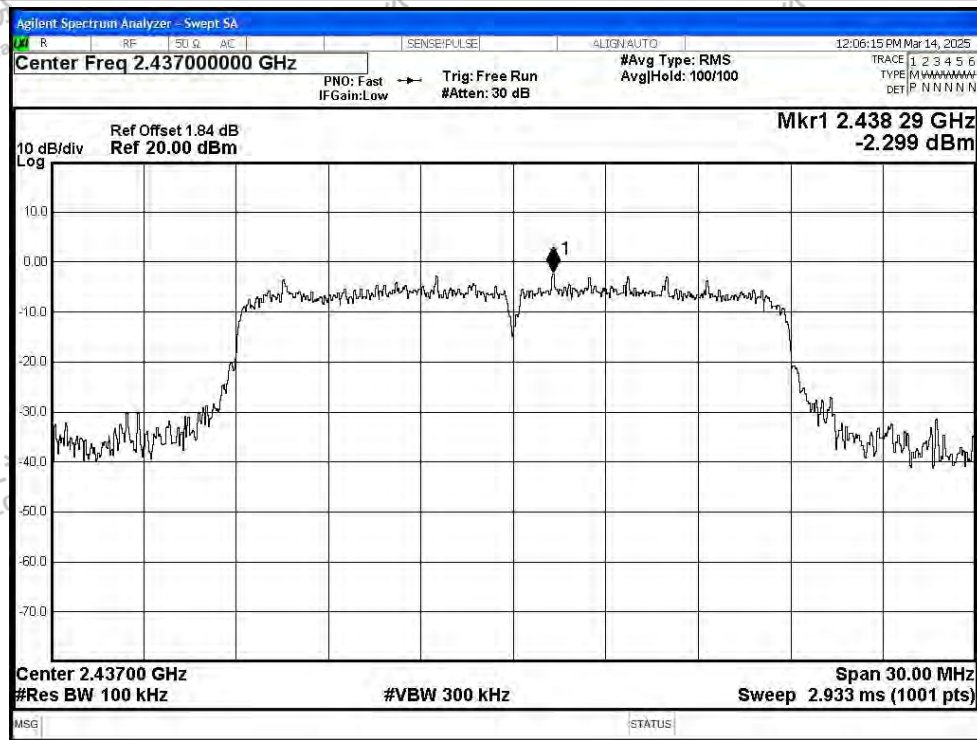
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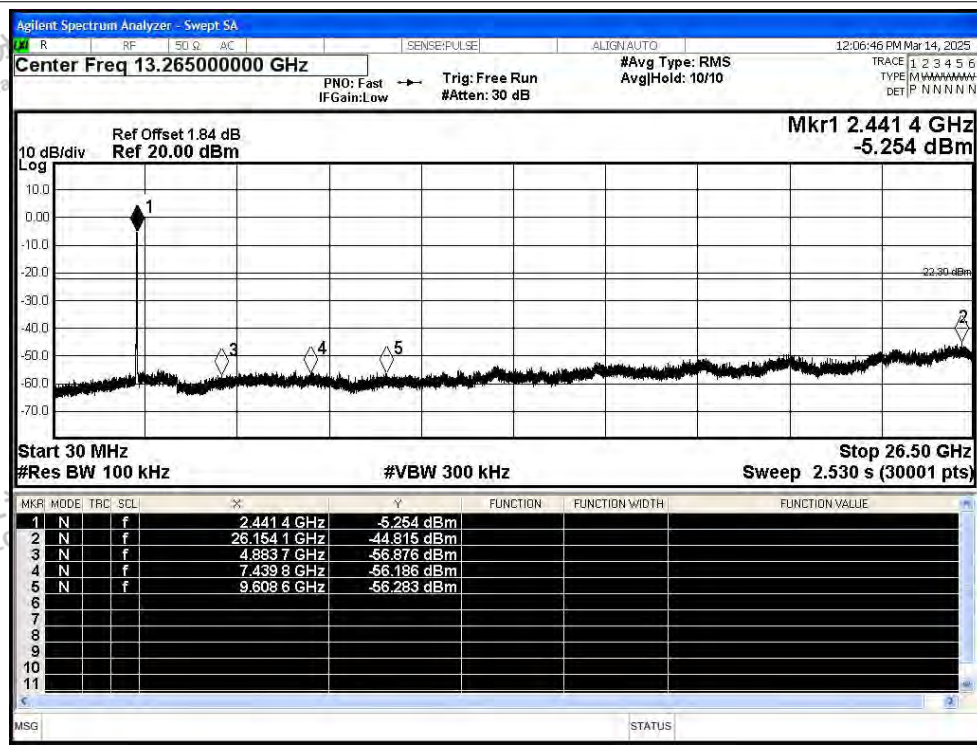
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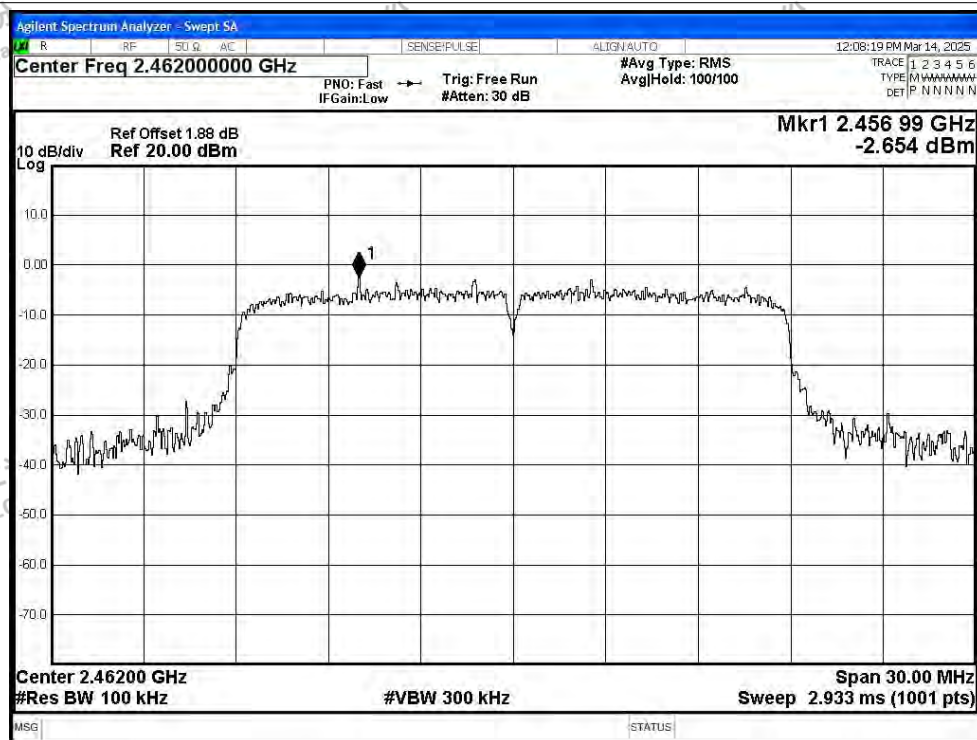
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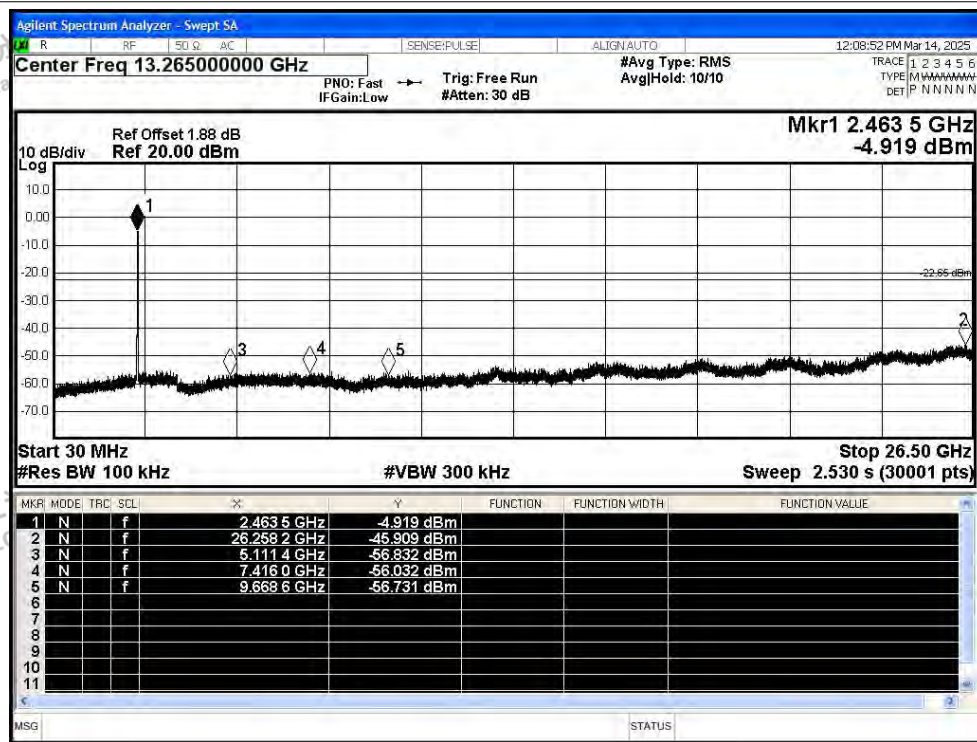
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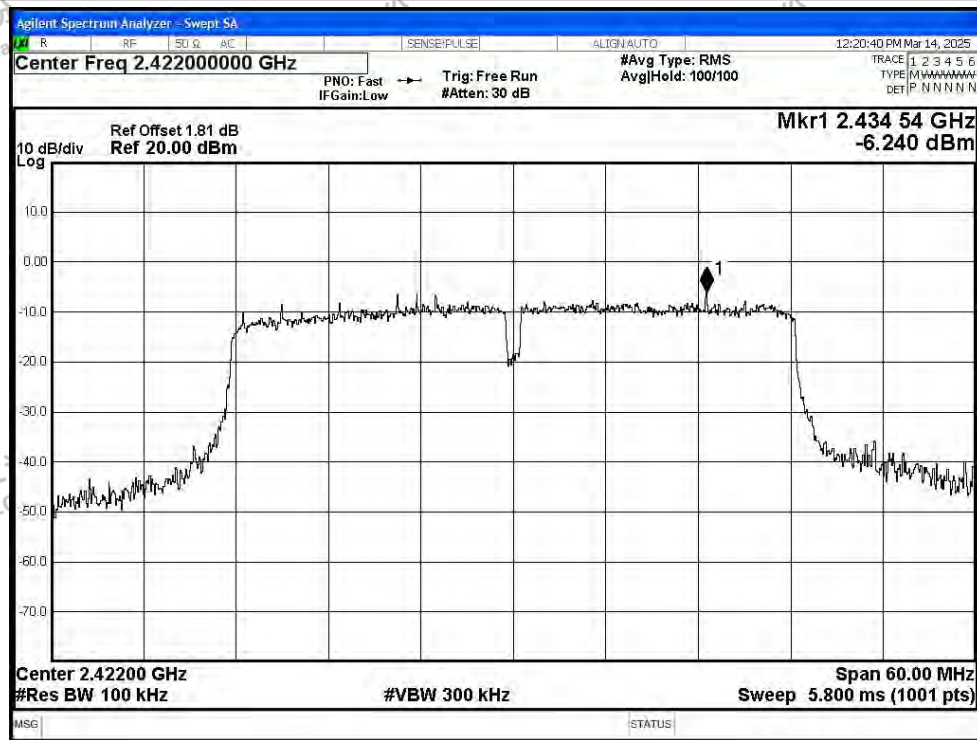
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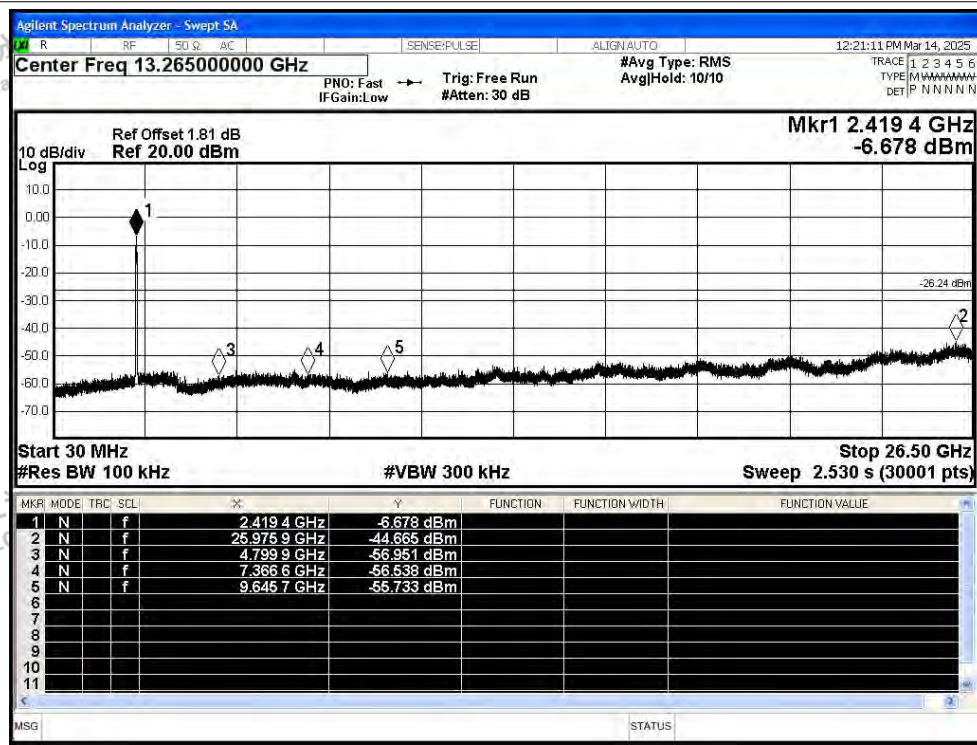
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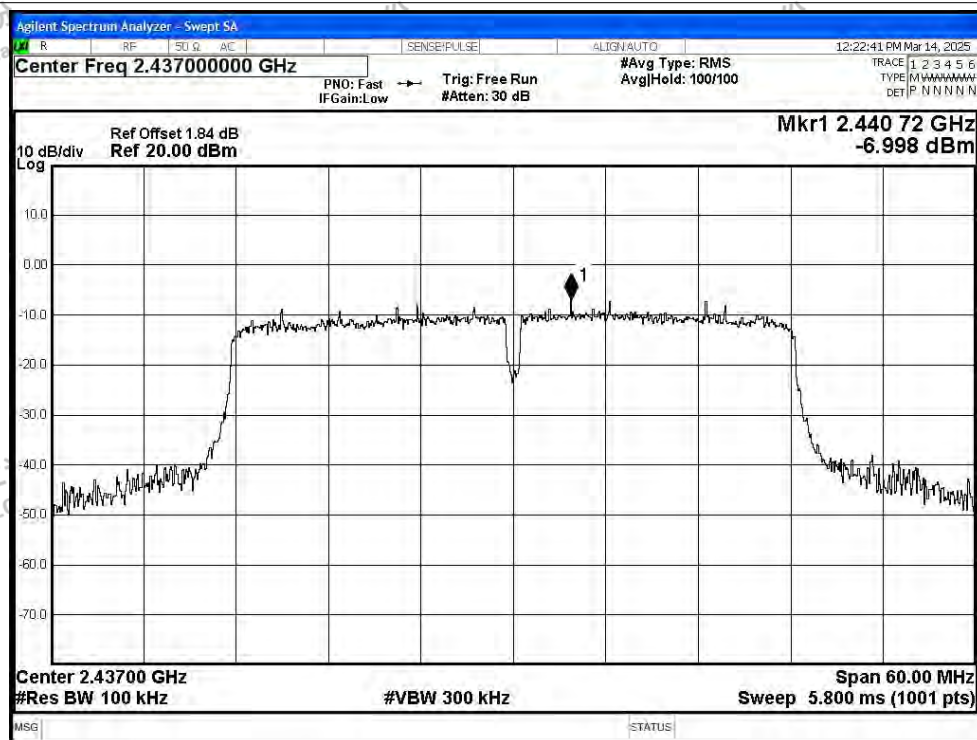
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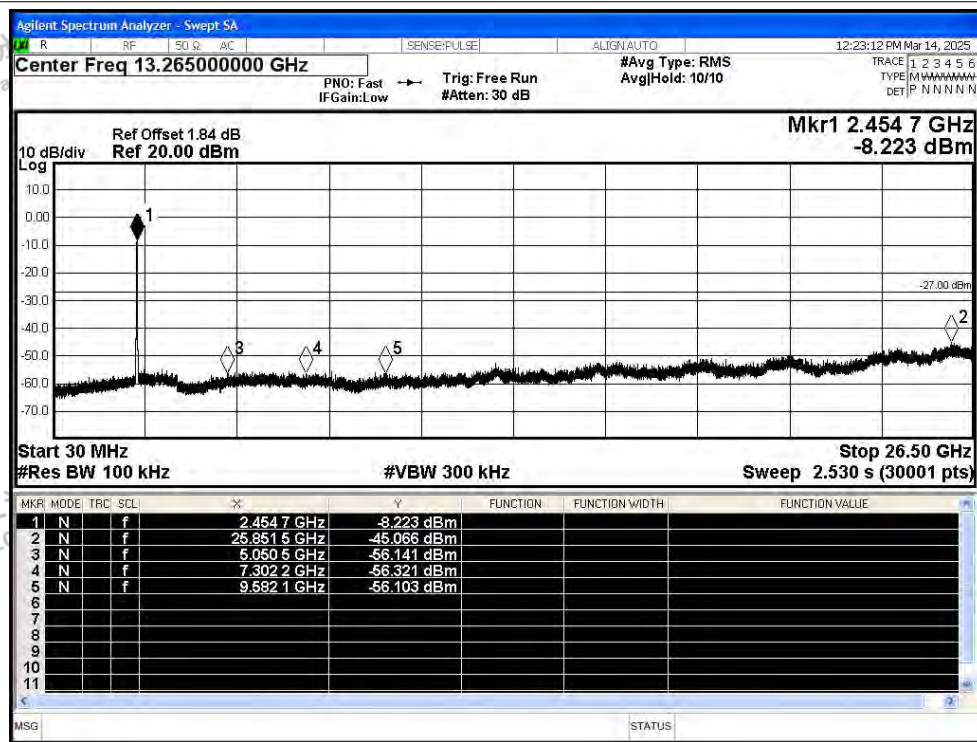
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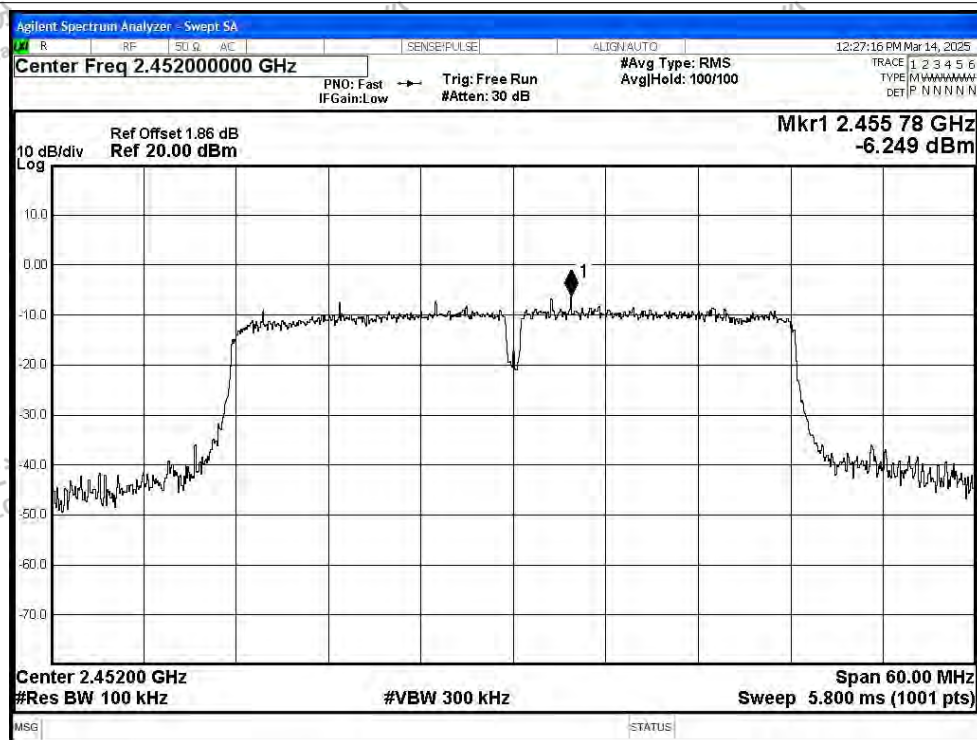
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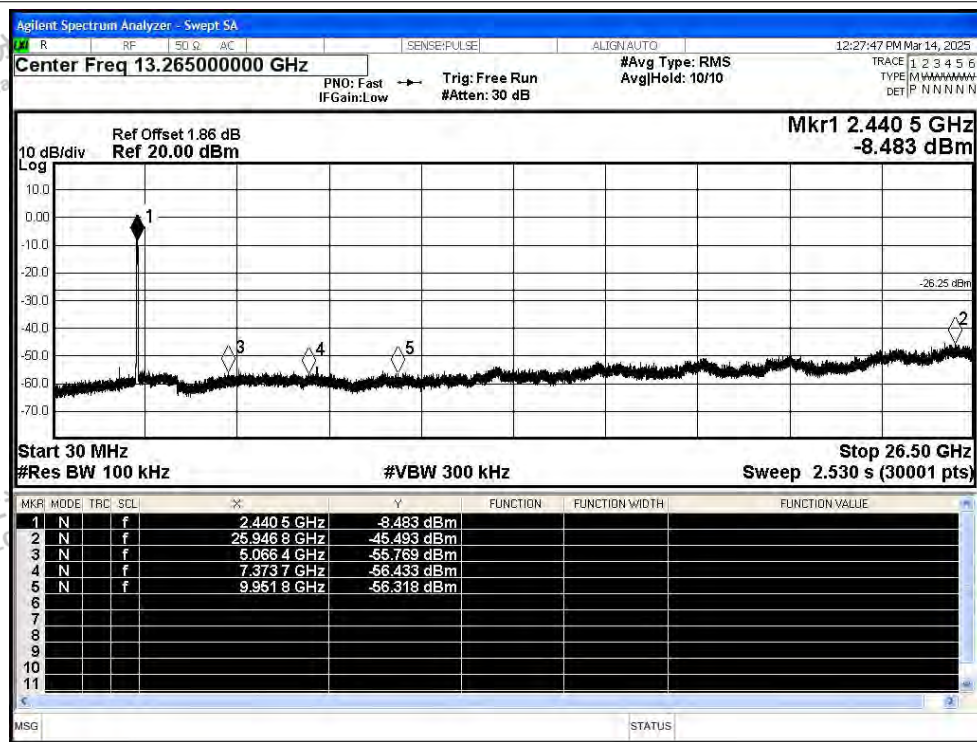
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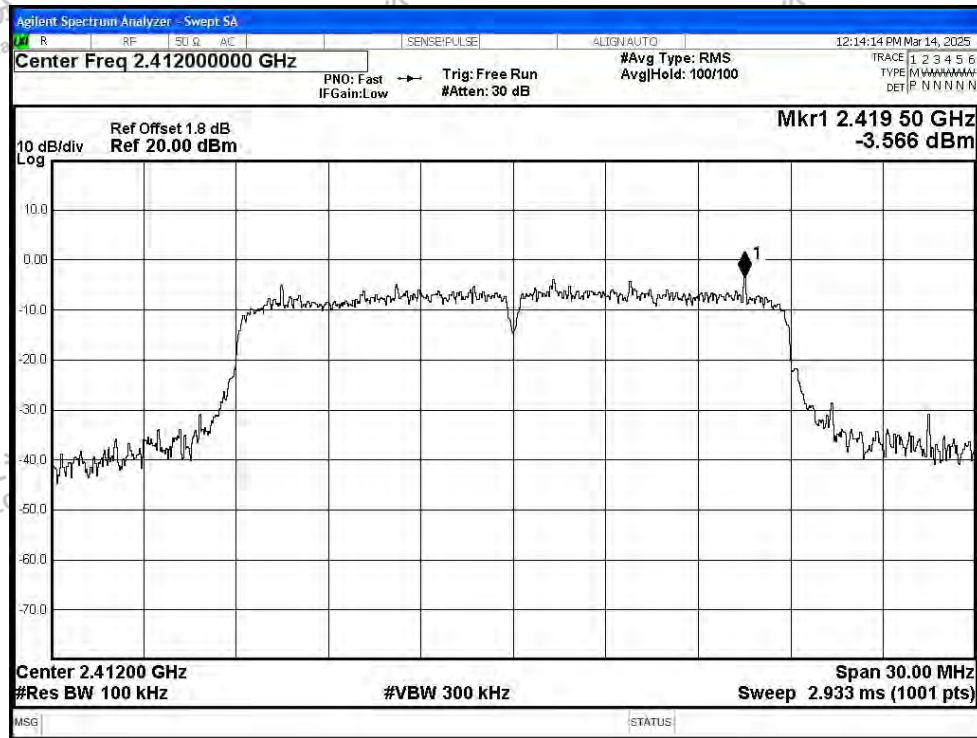
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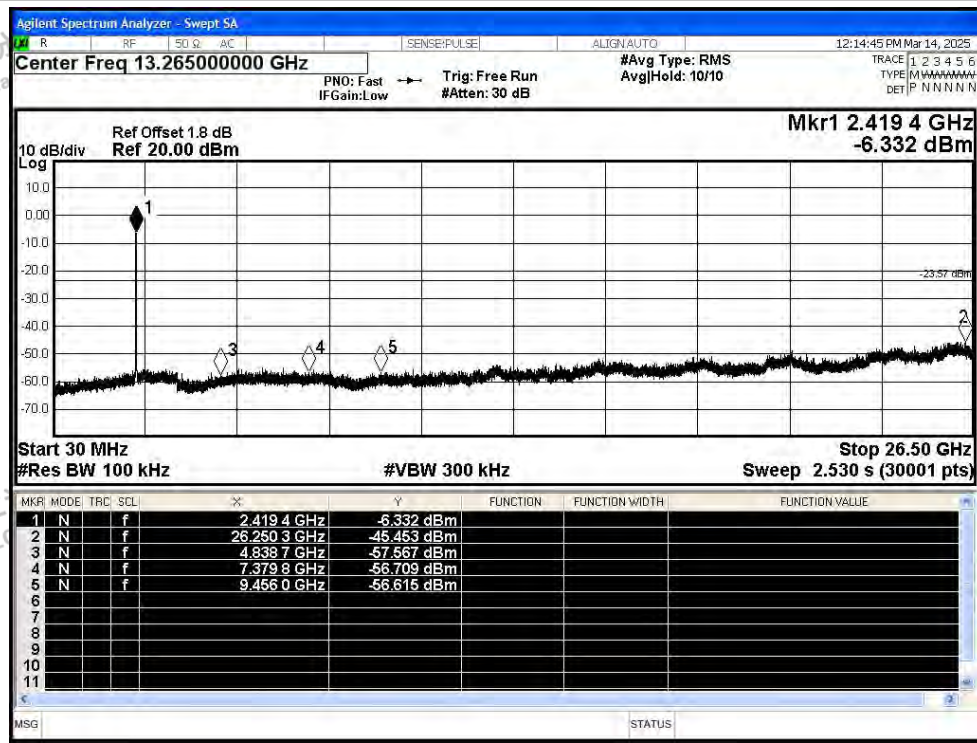
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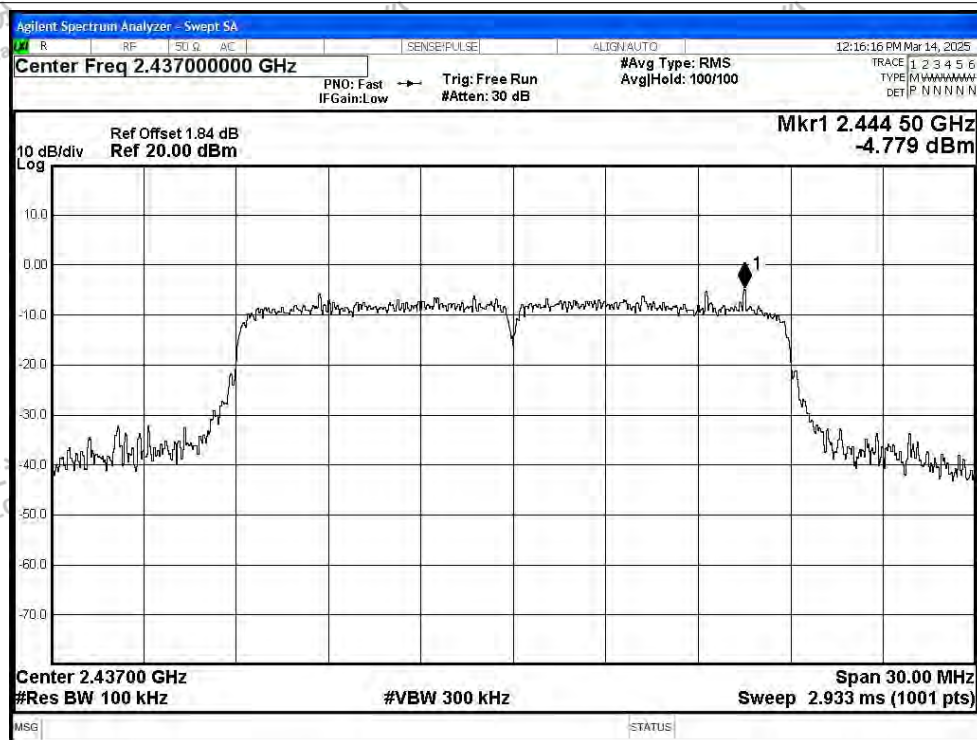
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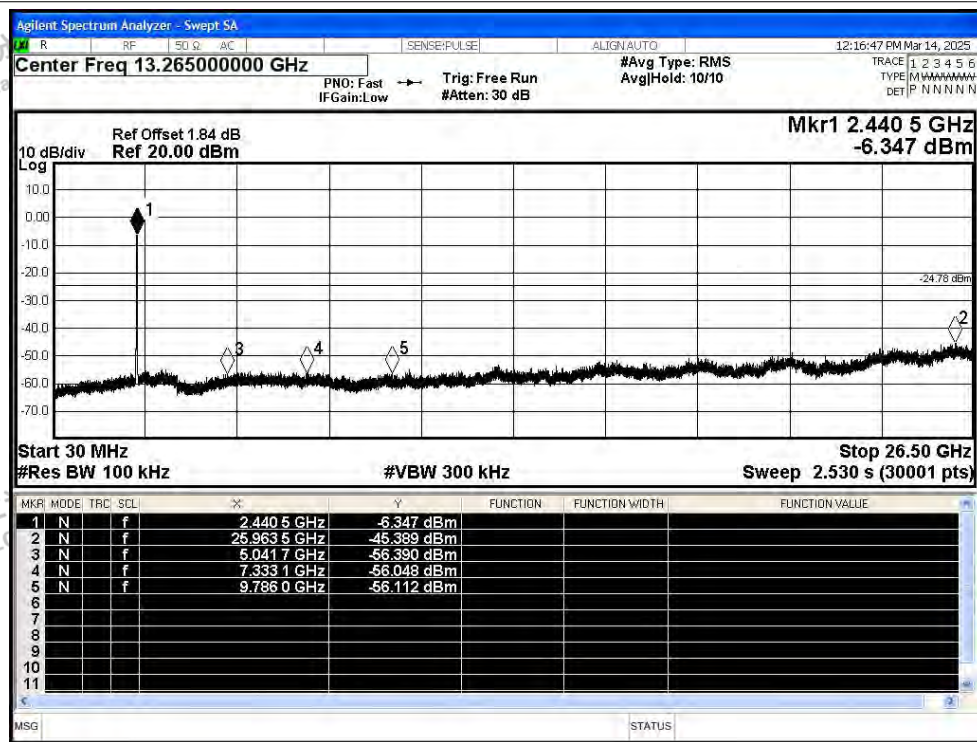
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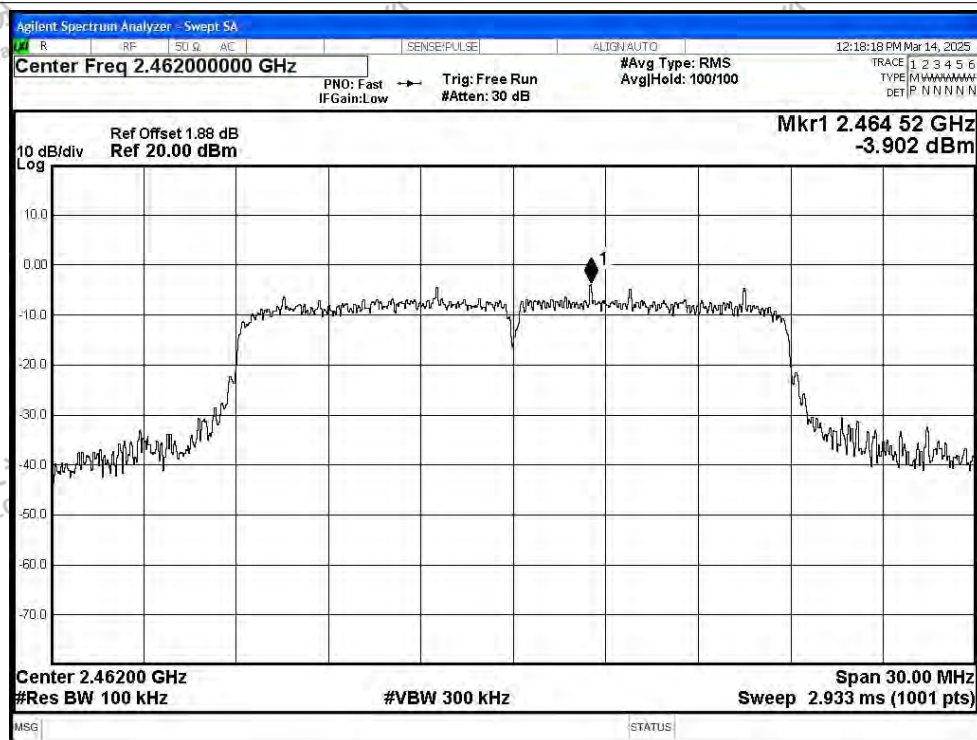
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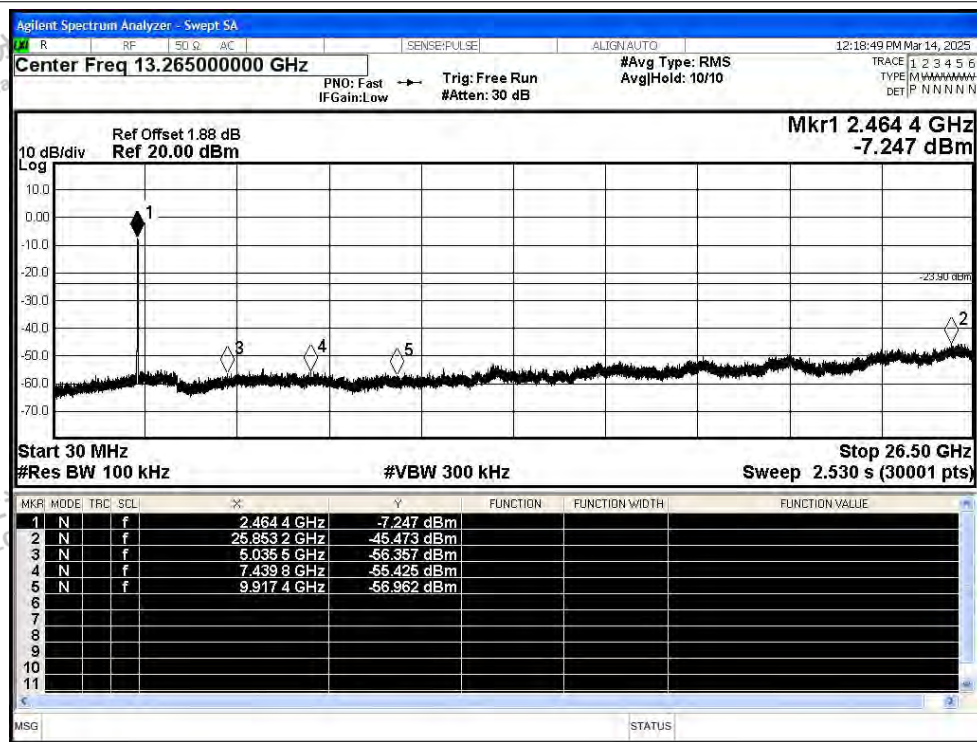
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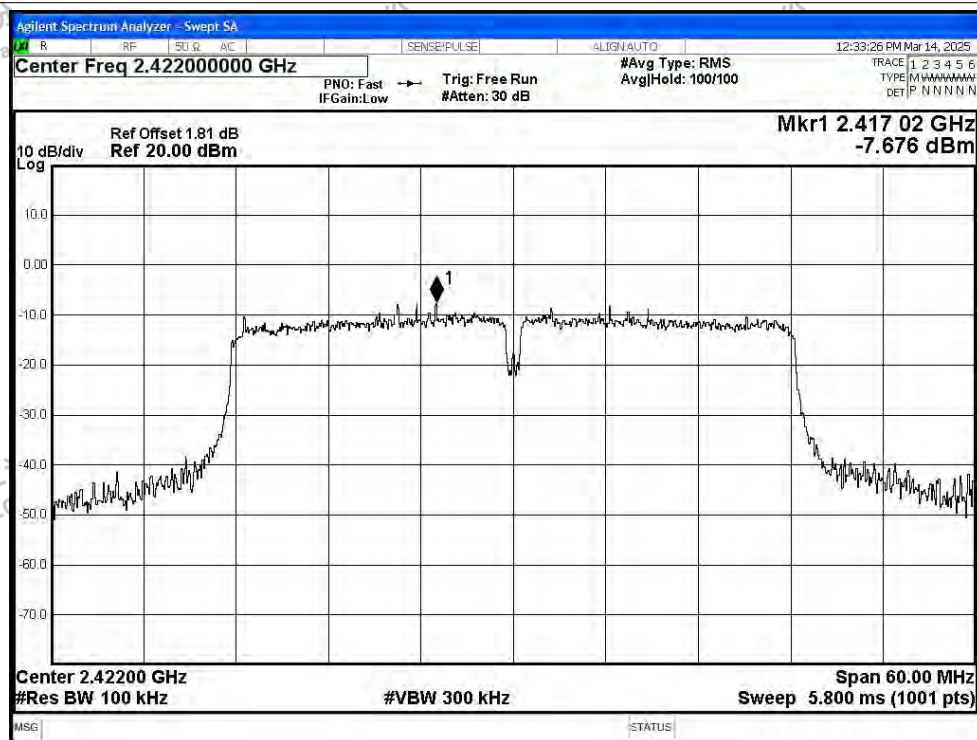
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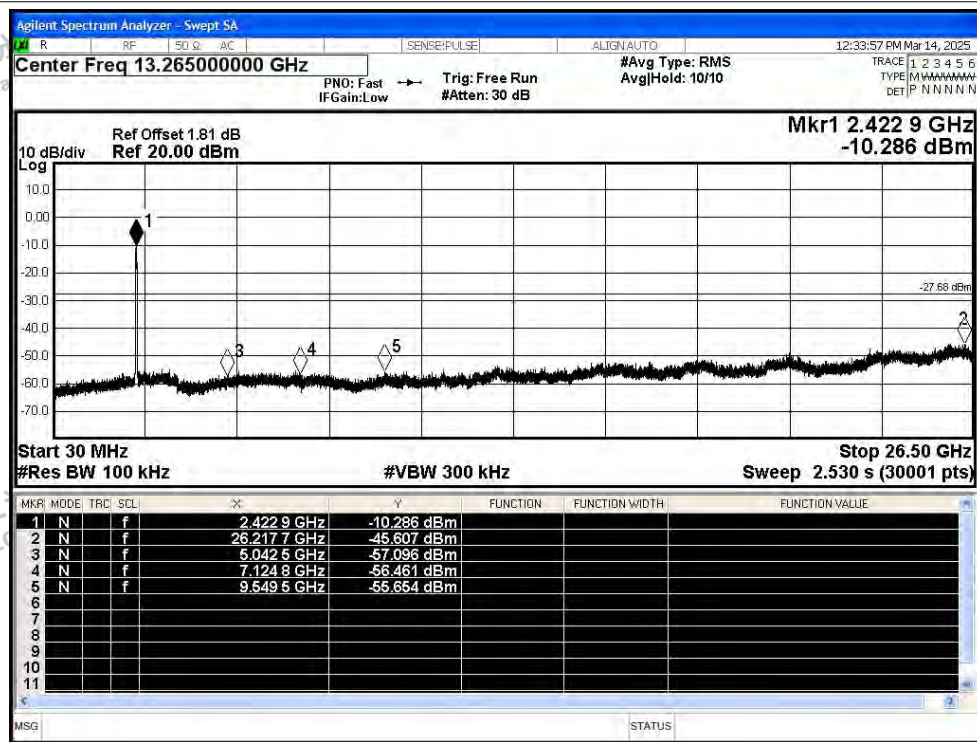
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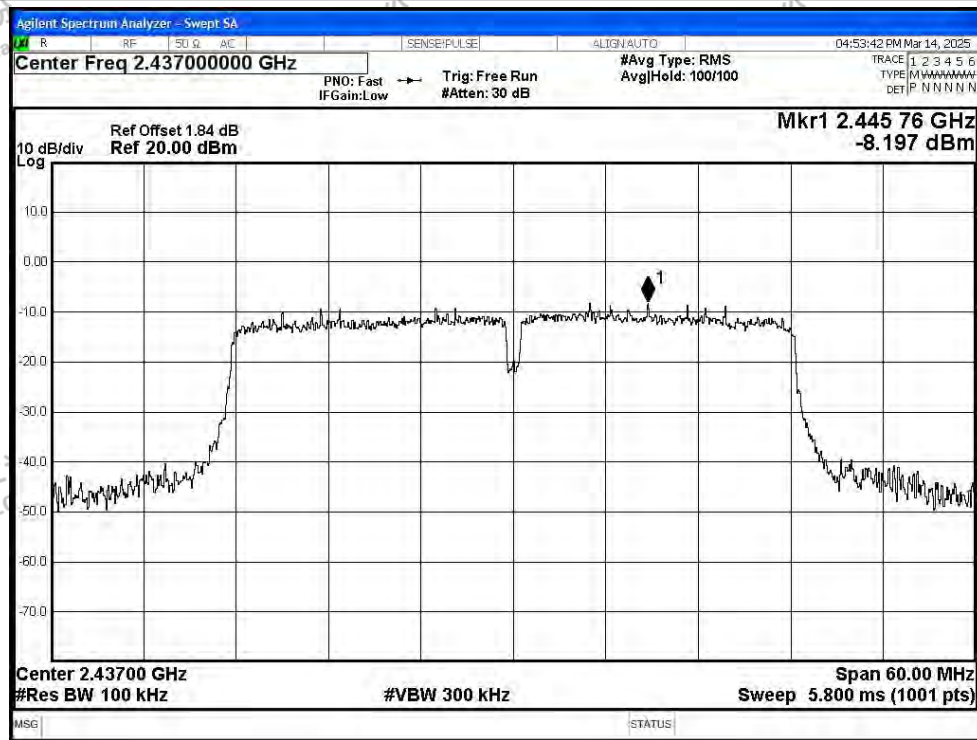
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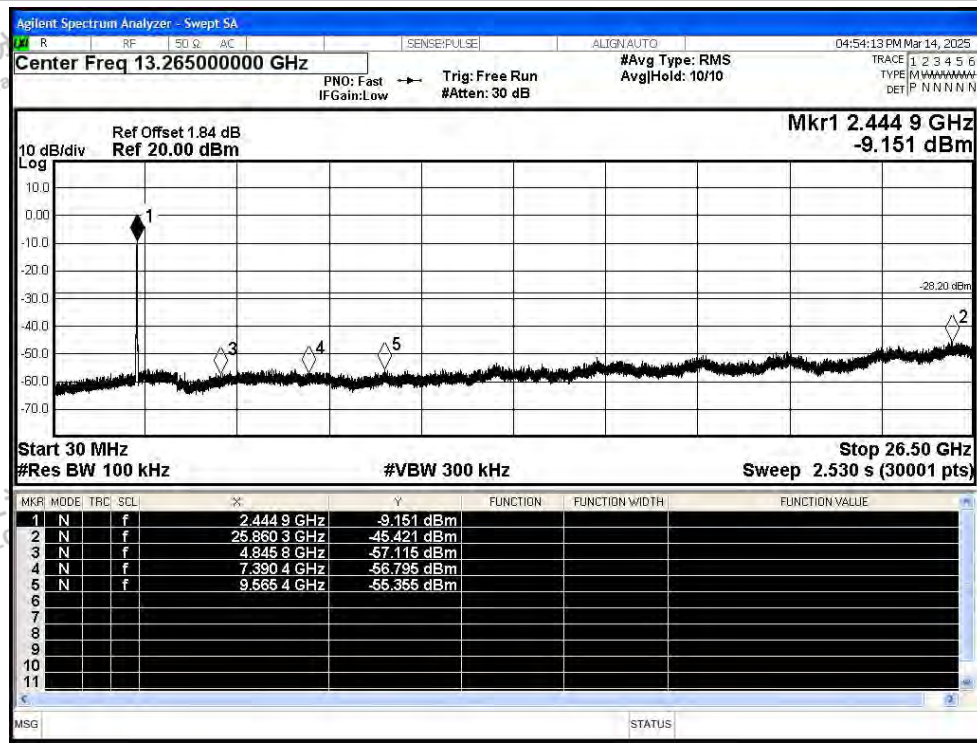
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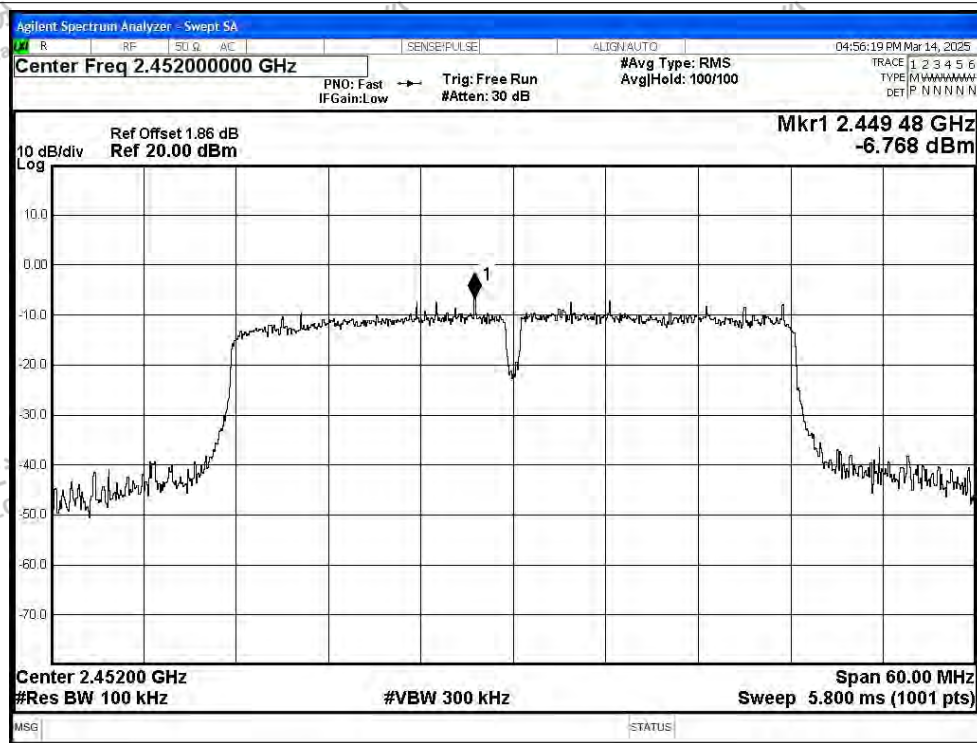
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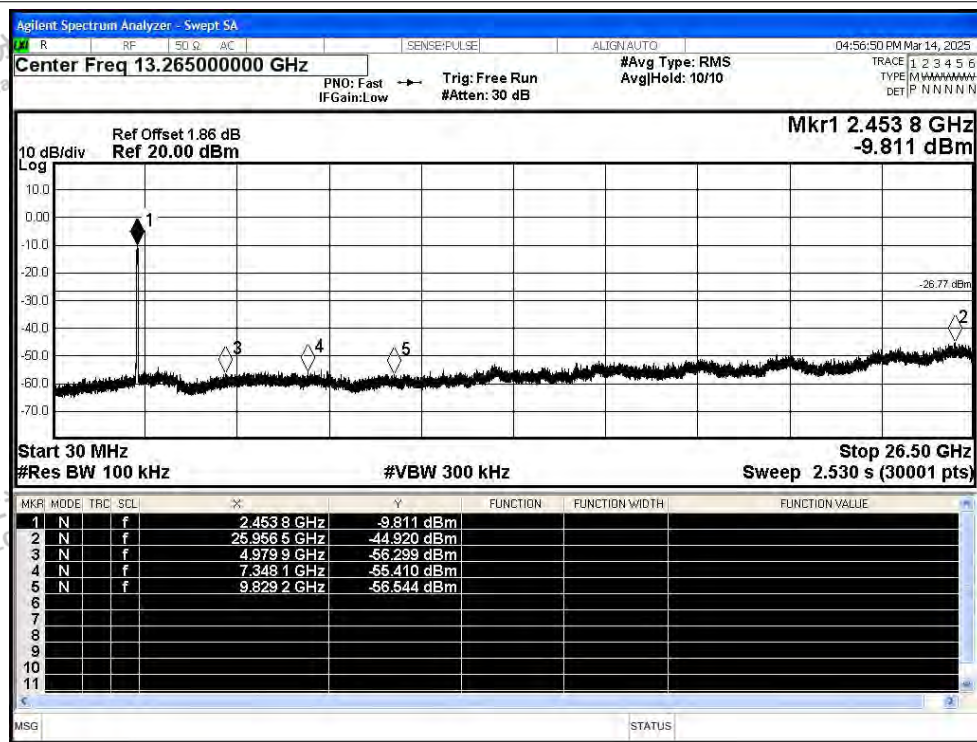
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Tx. Spurious NVNT ax40 2452MHz Ant1 Ref



Tx. Spurious NVNT ax40 2452MHz Ant1 Emission





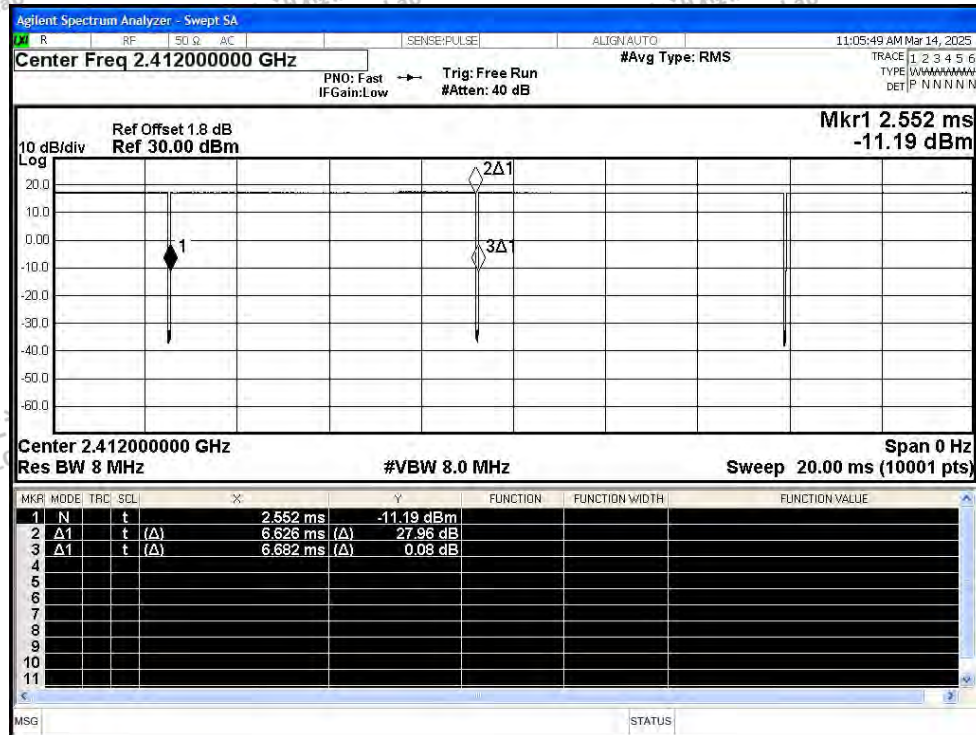
B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.16	0	0.15
NVNT	b	2437	Ant1	99.13	0	0.15
NVNT	b	2462	Ant1	99.16	0	0.15
NVNT	g	2412	Ant1	97.68	0.1	0.37
NVNT	g	2437	Ant1	97.68	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.25	0.12	0.44
NVNT	n20	2437	Ant1	97.25	0.12	0.44
NVNT	n20	2462	Ant1	97.33	0.12	0.44
NVNT	n40	2422	Ant1	97.23	0.12	0.46
NVNT	n40	2437	Ant1	97.14	0.13	0.46
NVNT	n40	2452	Ant1	97.23	0.12	0.46
NVNT	ax20	2412	Ant1	97.25	0.12	0.44
NVNT	ax20	2437	Ant1	97.33	0.12	0.44
NVNT	ax20	2462	Ant1	97.33	0.12	0.44
NVNT	ax40	2422	Ant1	97.23	0.12	0.46
NVNT	ax40	2437	Ant1	97.23	0.12	0.46
NVNT	ax40	2452	Ant1	97.14	0.13	0.46

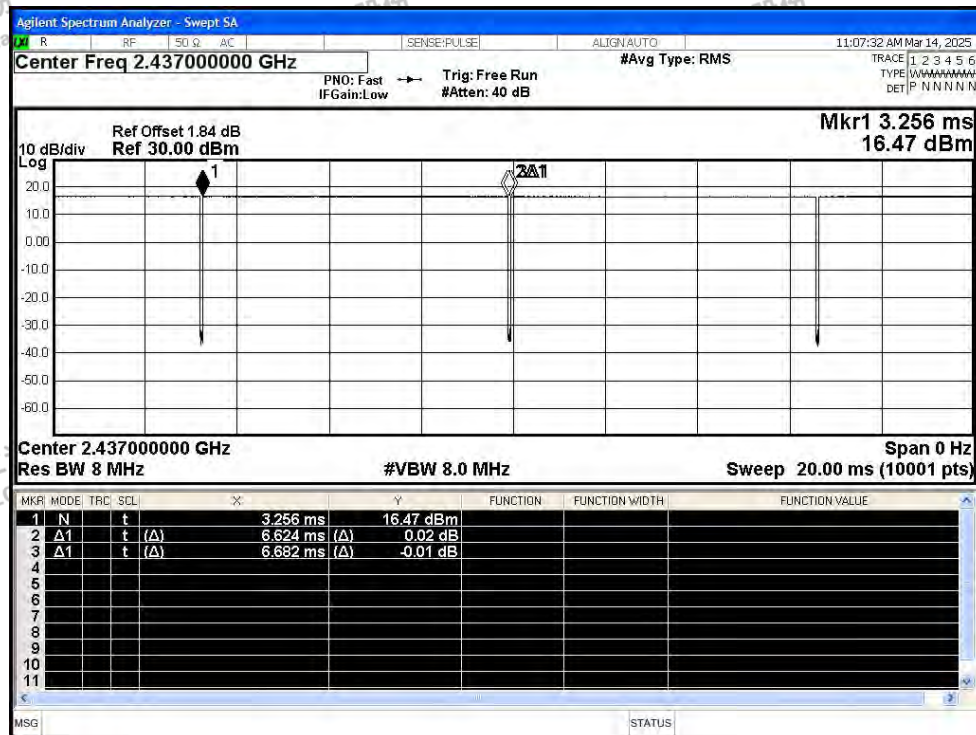


Test Graphs

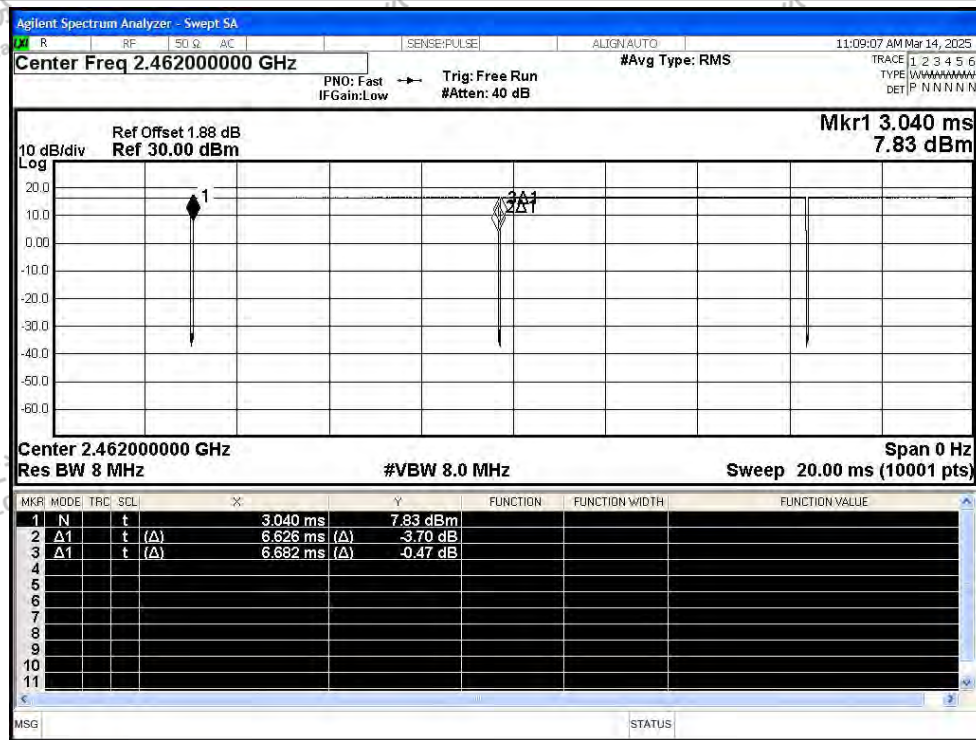
Duty Cycle NVNT b 2412MHz Ant1



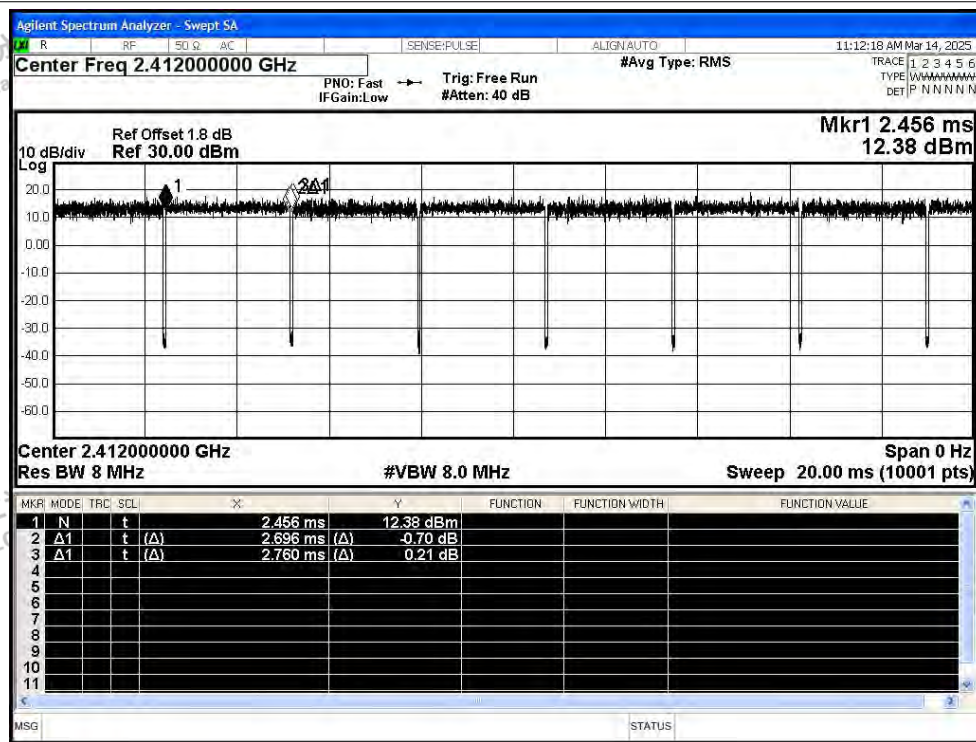
Duty Cycle NVNT b 2437MHz Ant1



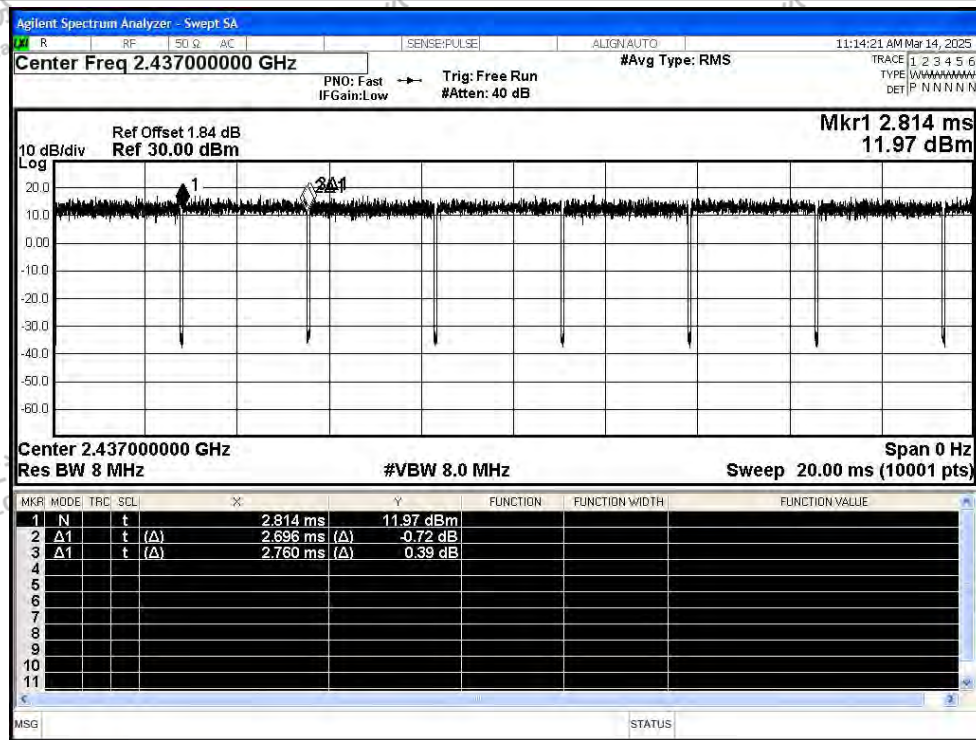
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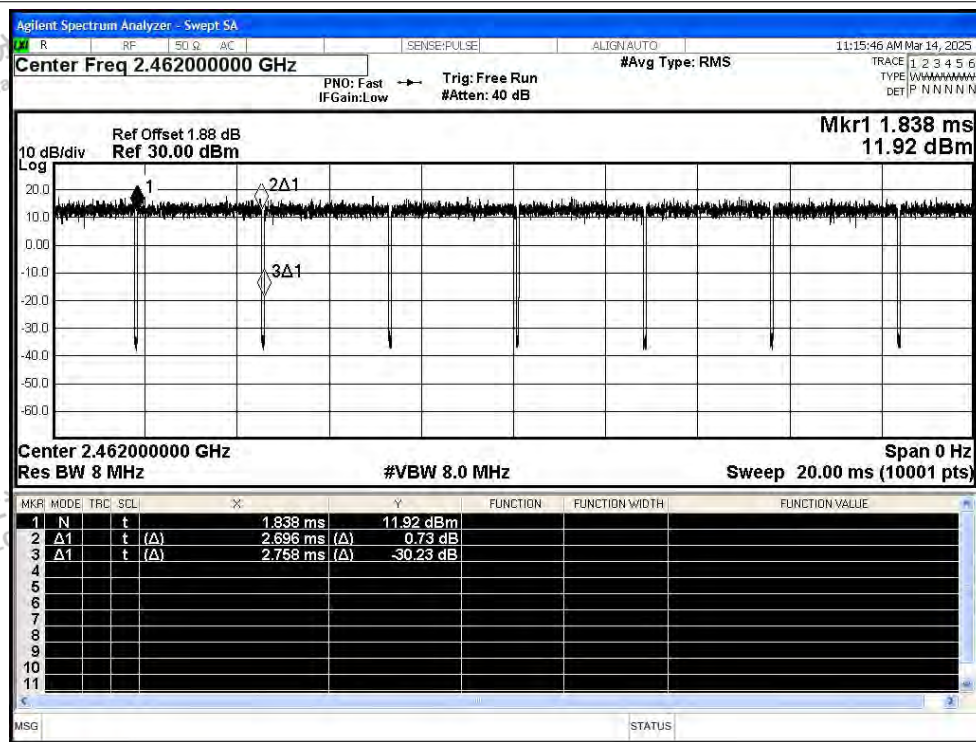
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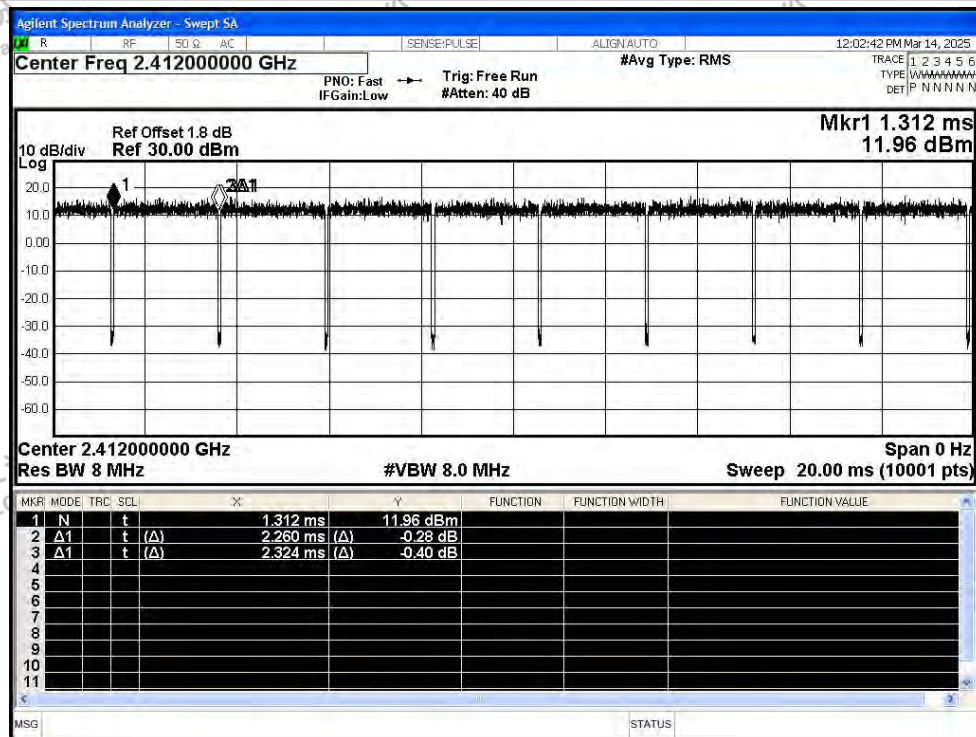
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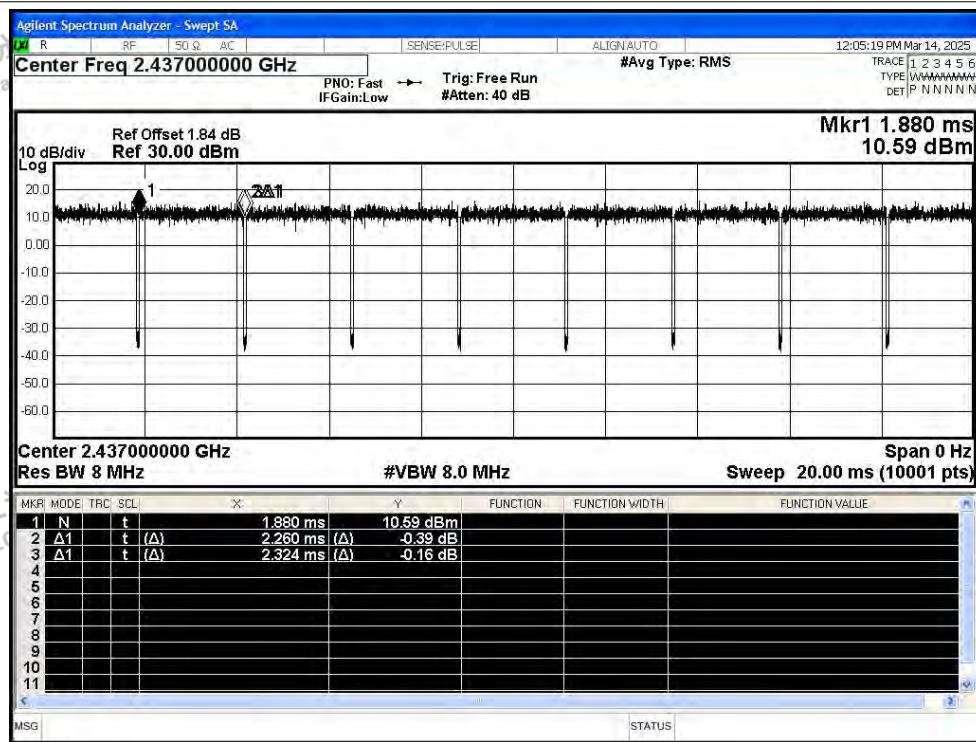
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Duty Cycle NVNT n20 2412MHz Ant1



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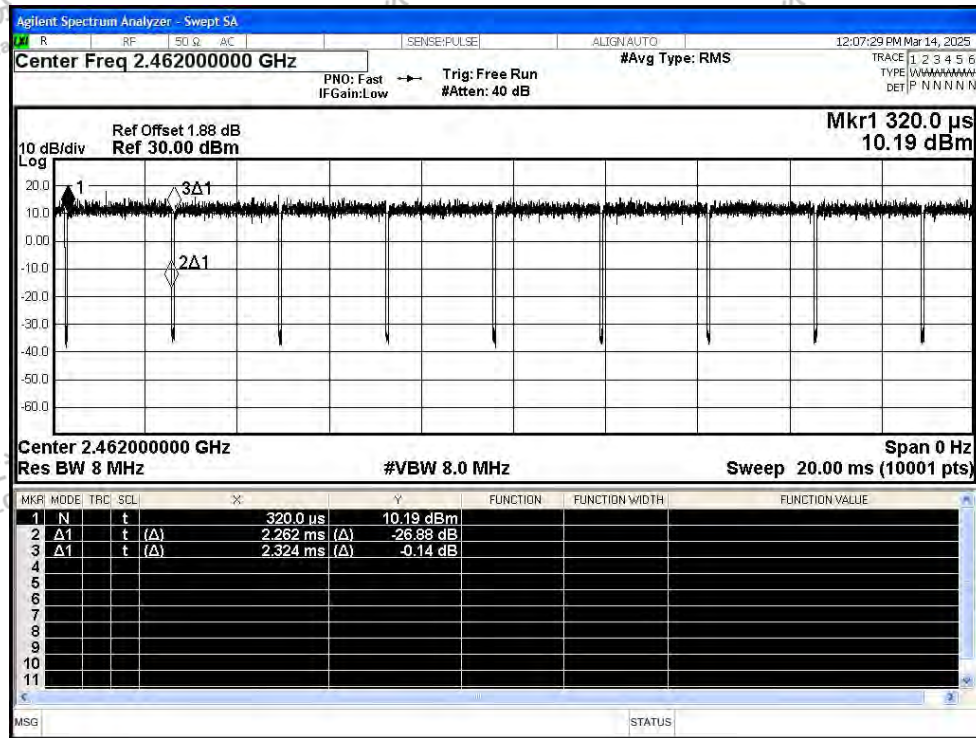
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

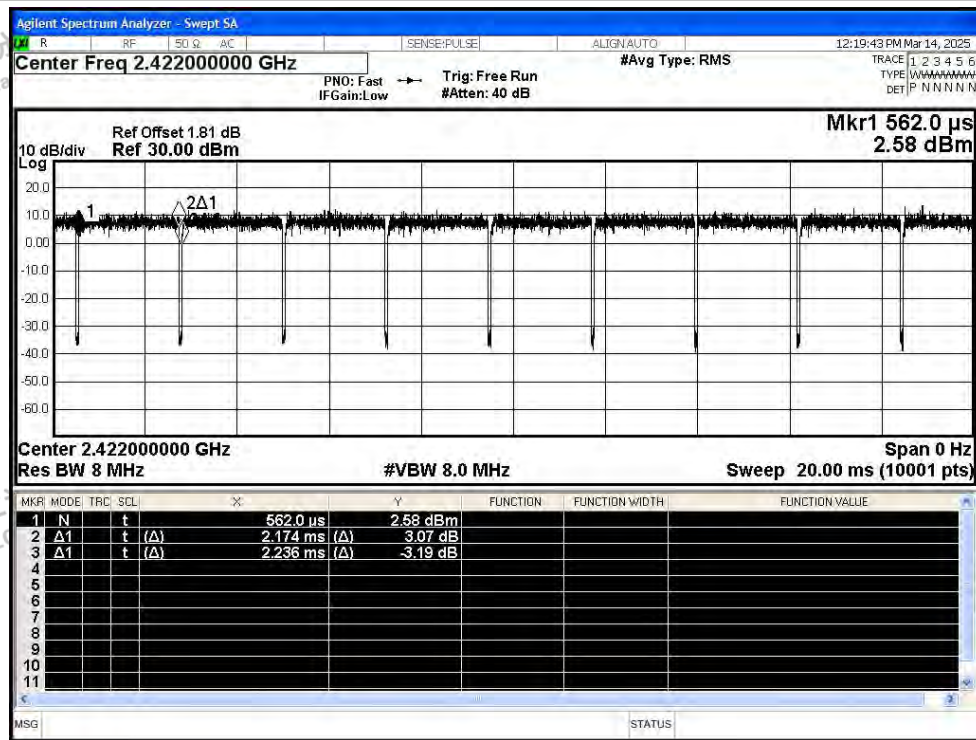
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

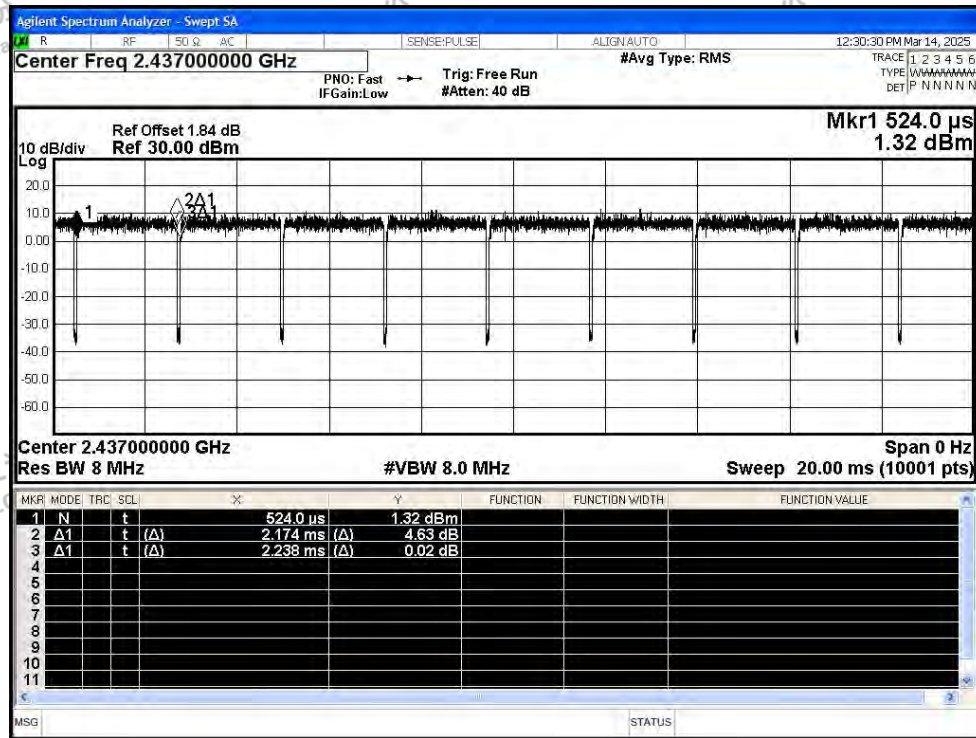
Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1

