



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Pepper C1 MUX RFID Reader

Test Model: v2

Environmental Conditions

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



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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	Ant1	9.58	≥ 0.5	Pass
NVNT	b	2437	Ant1	10.061	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.58	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.116	≥ 0.5	Pass
NVNT	g	2437	Ant1	15.489	≥ 0.5	Pass
NVNT	g	2462	Ant1	13.585	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.257	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.654	≥ 0.5	Pass
NVNT	n20	2462	Ant1	15.28	≥ 0.5	Pass
NVNT	n40	2422	Ant1	33.892	≥ 0.5	Pass
NVNT	n40	2437	Ant1	33.887	≥ 0.5	Pass
NVNT	n40	2452	Ant1	33.803	≥ 0.5	Pass

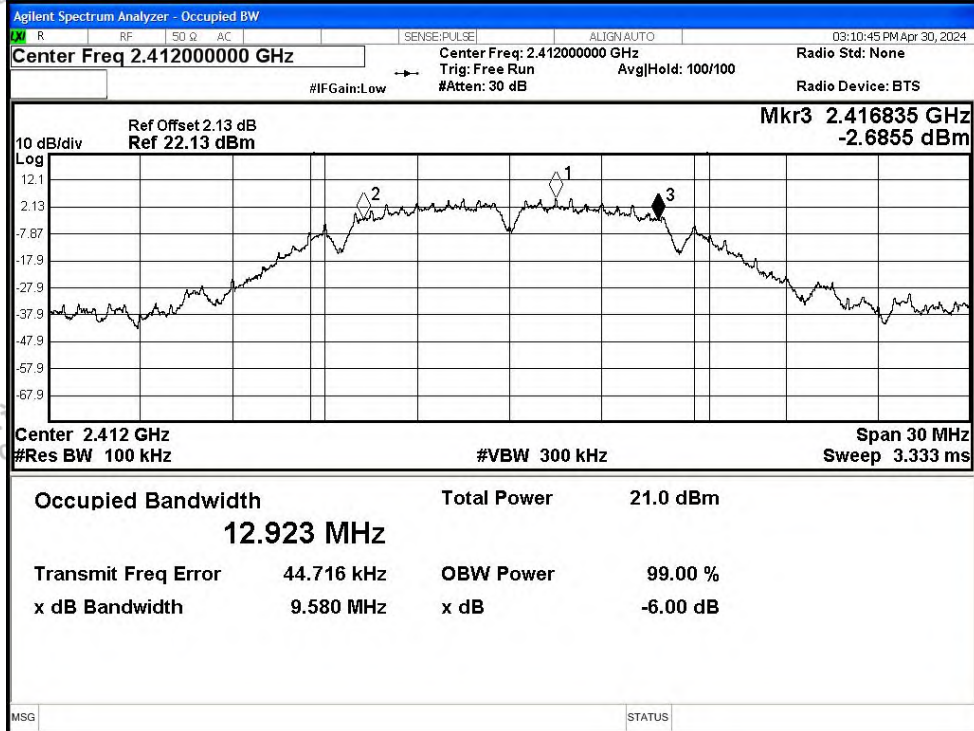


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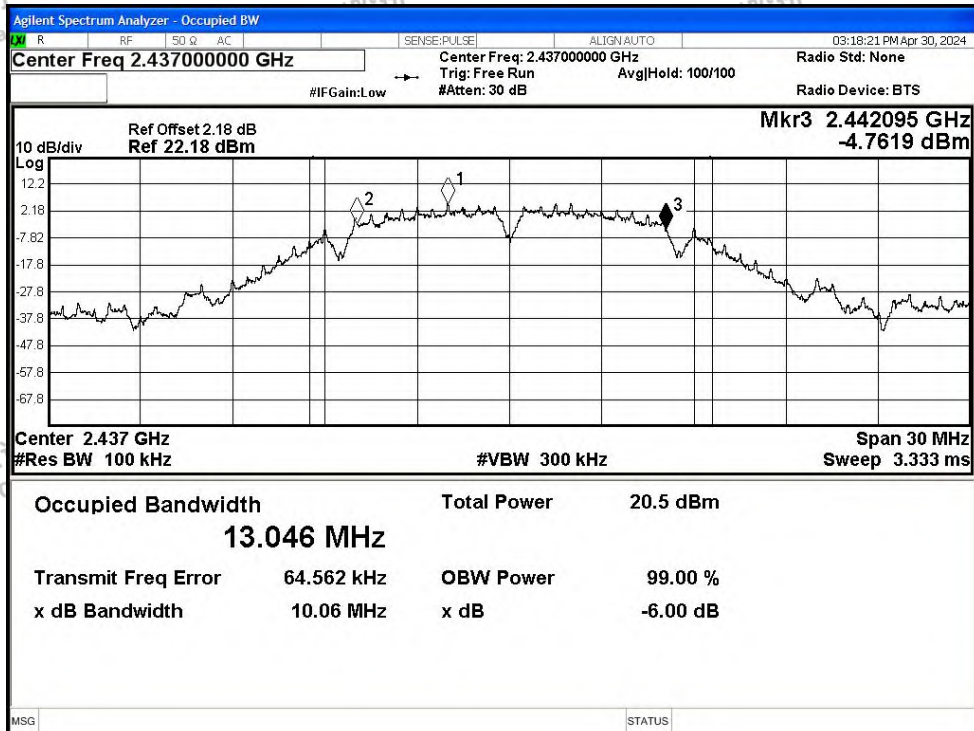


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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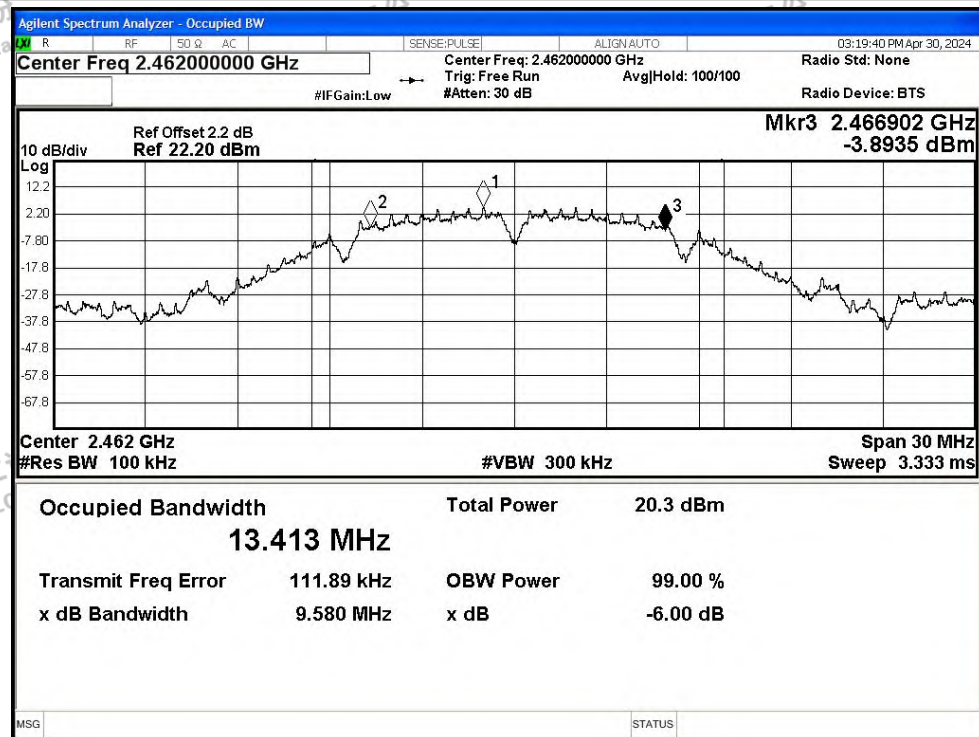
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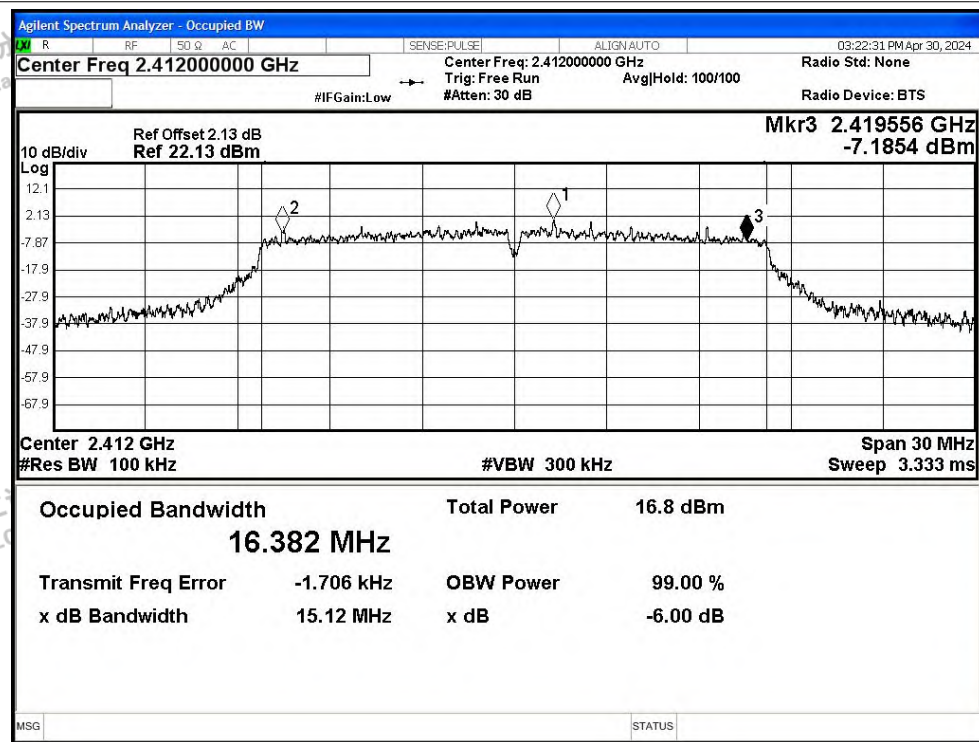
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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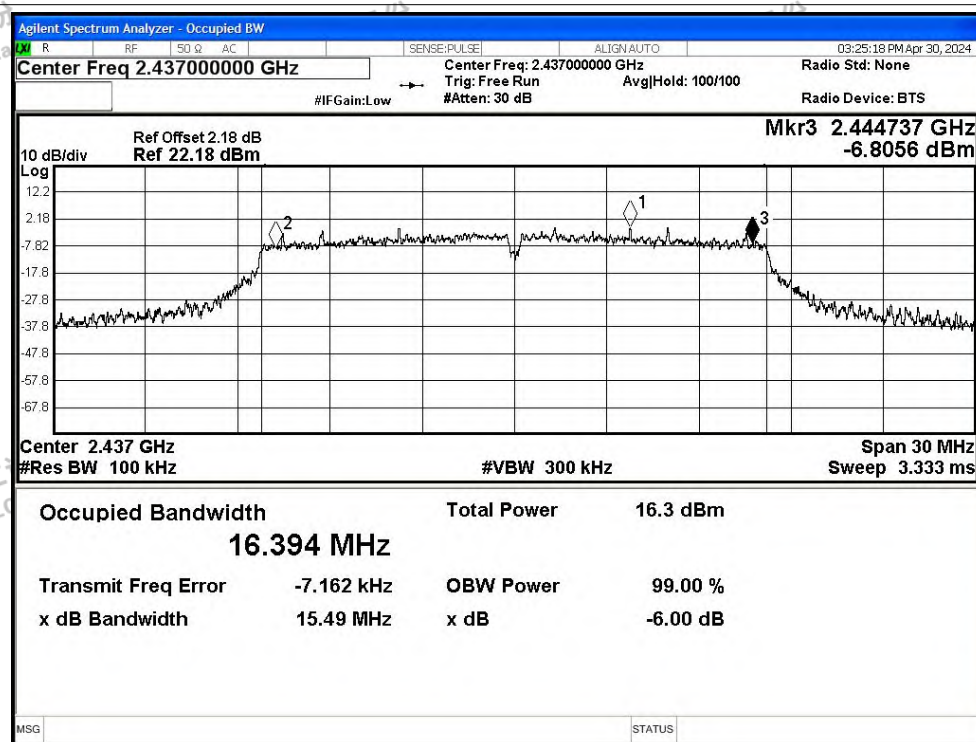
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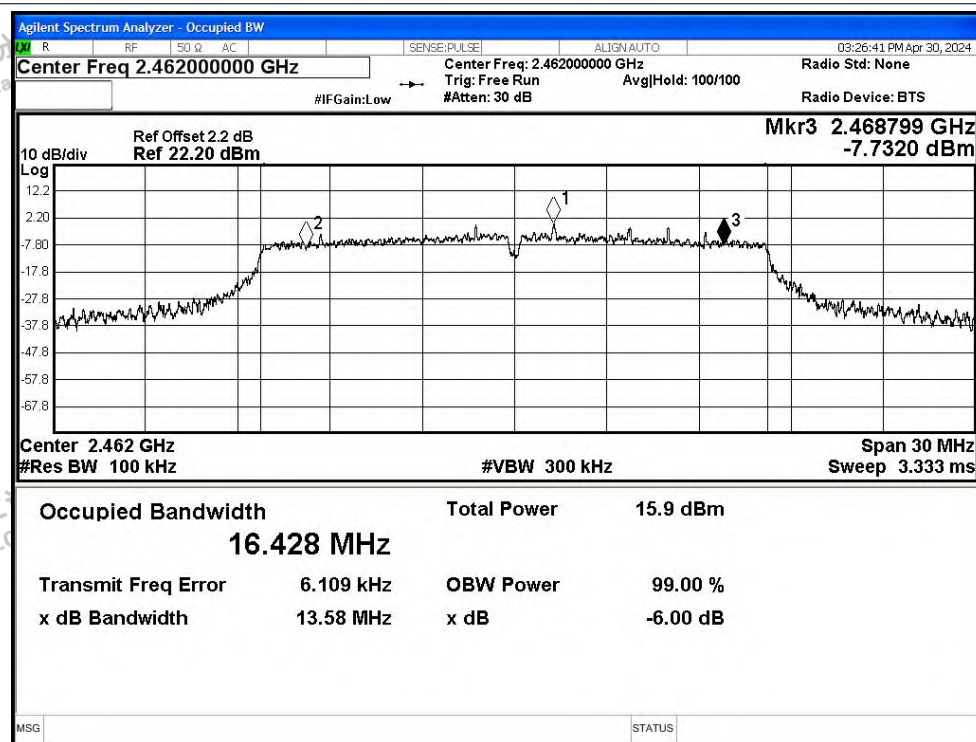
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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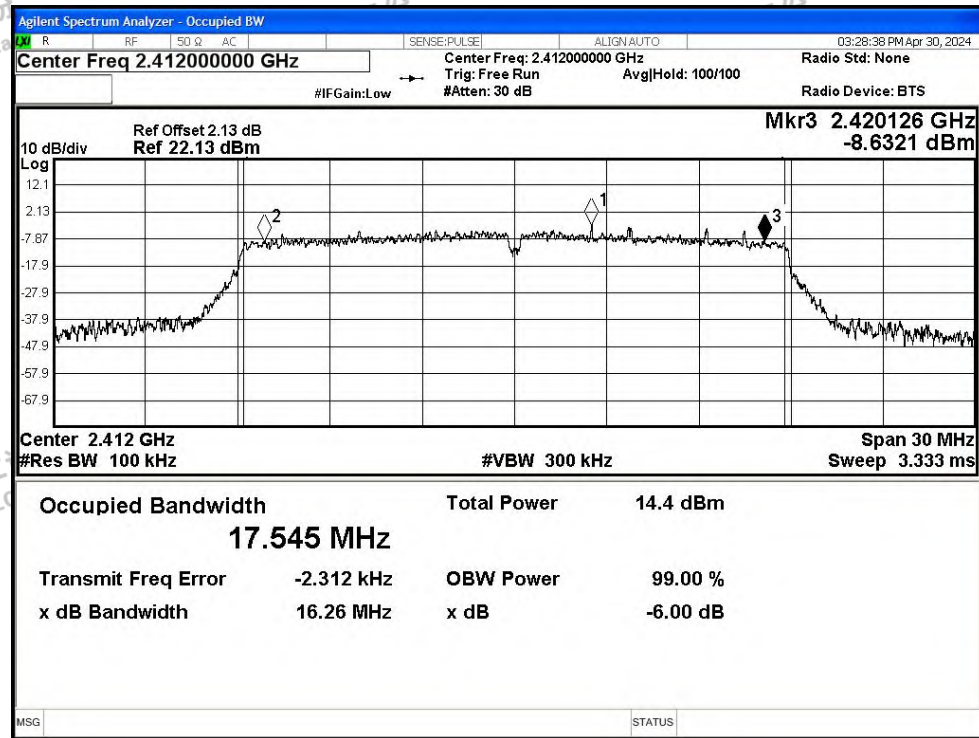
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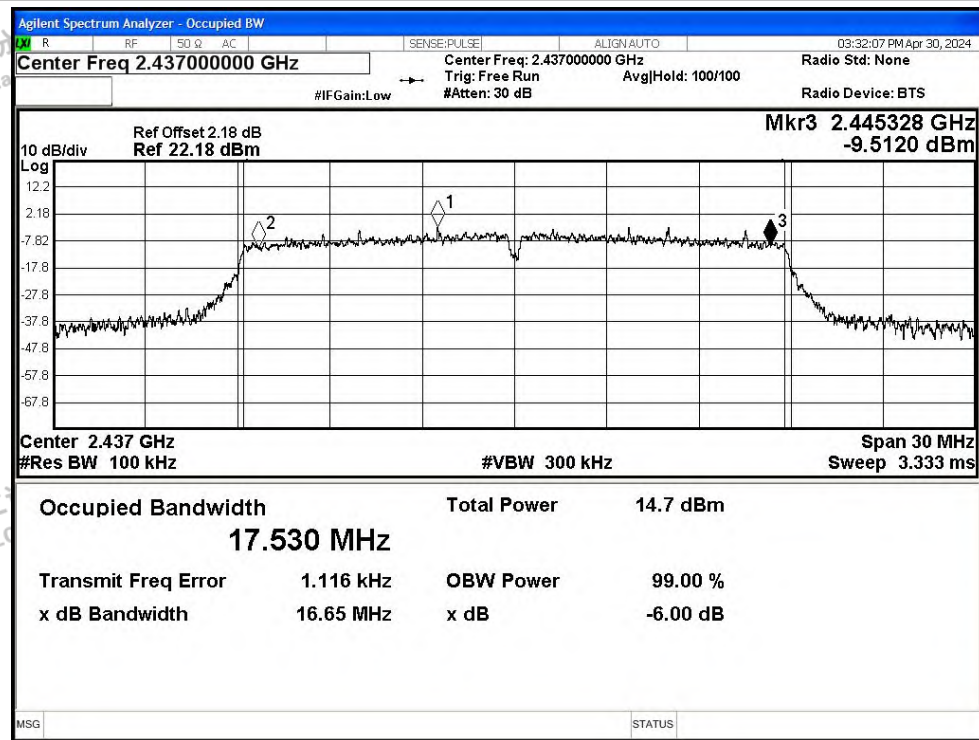
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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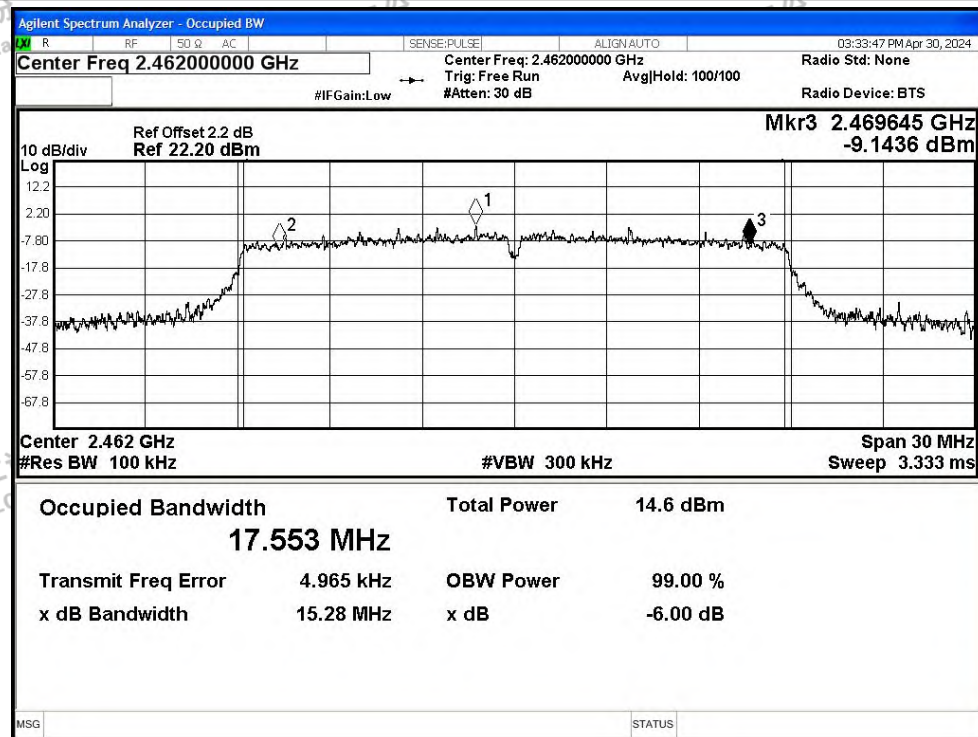
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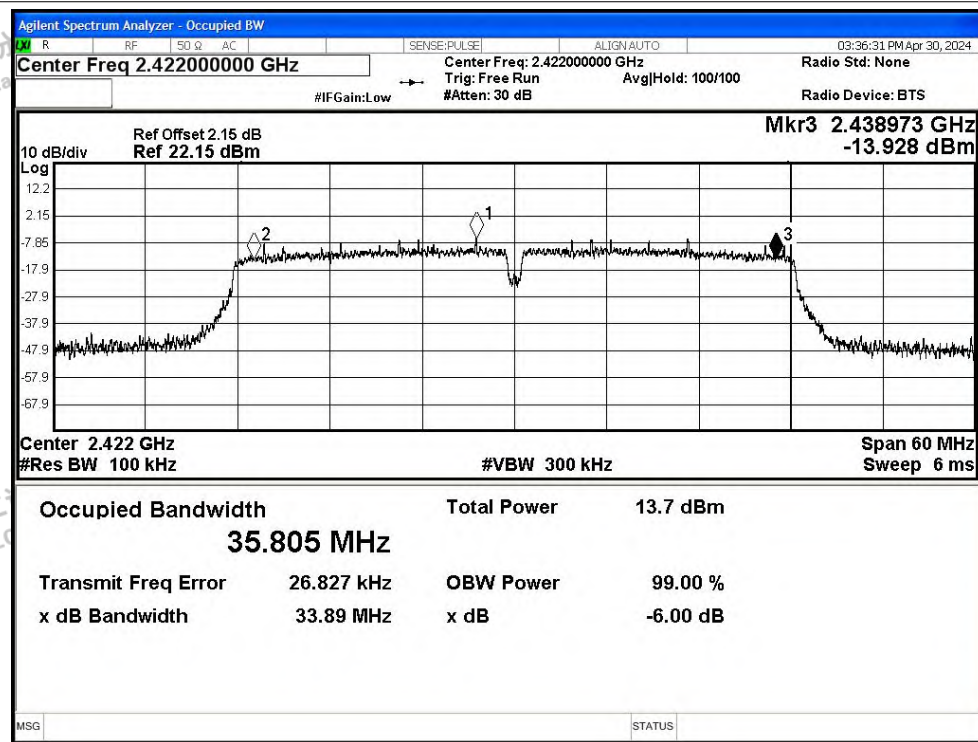
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1

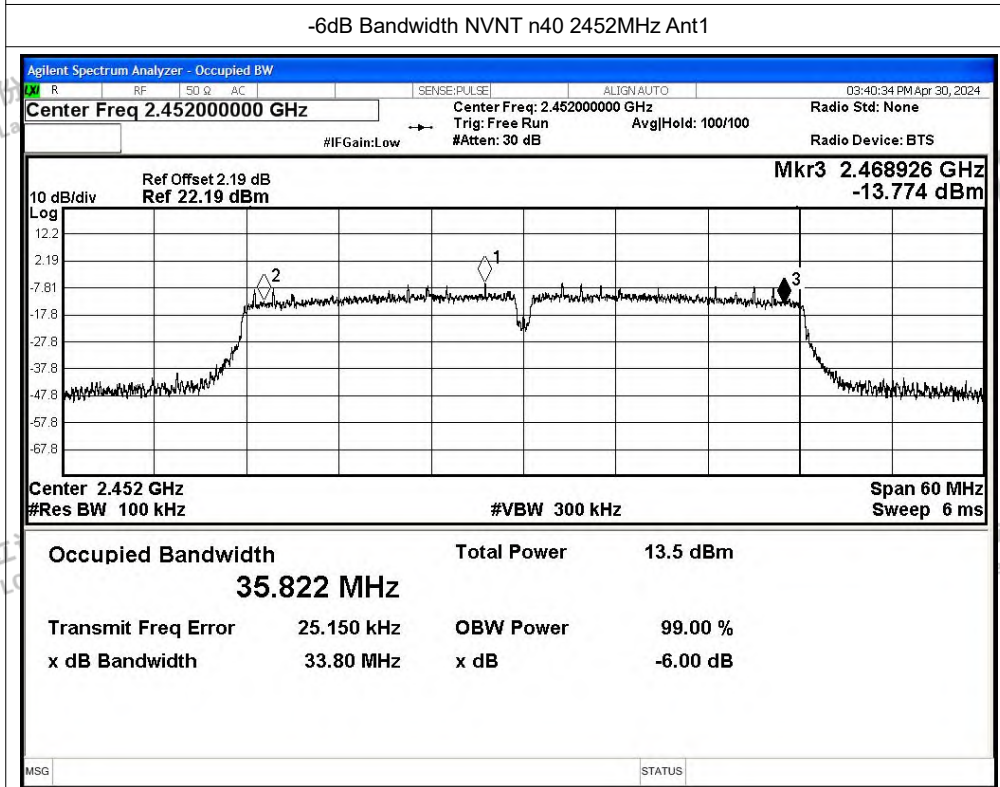
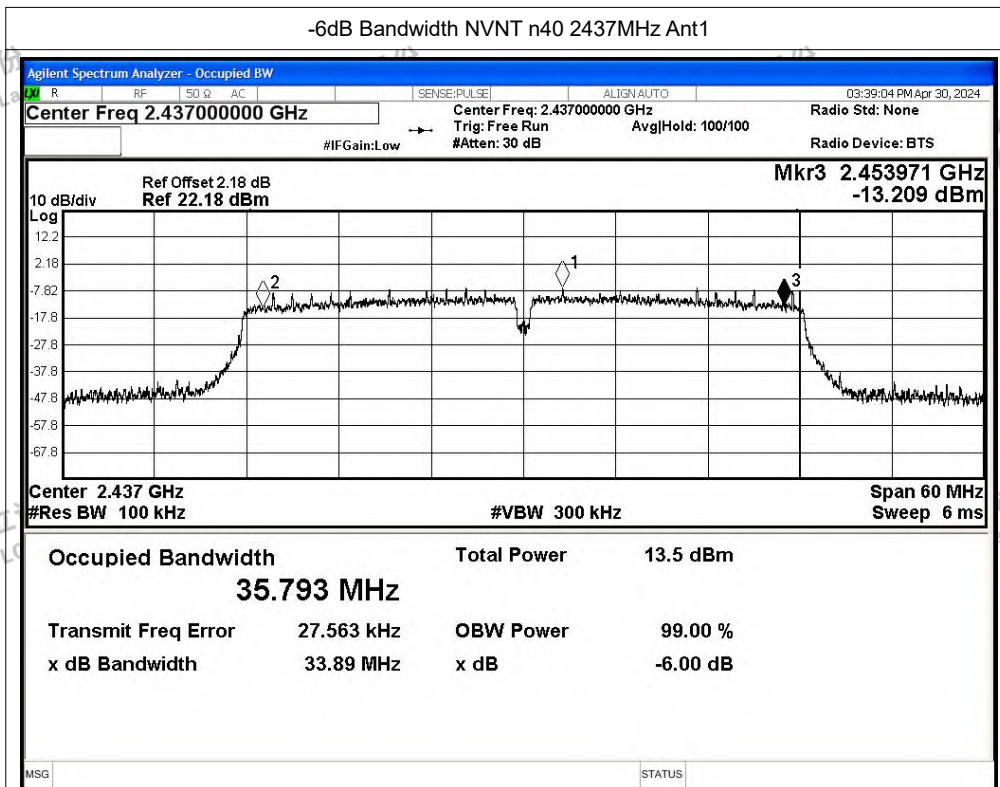


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C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.83	30	Pass
NVNT	b	2437	Ant1	15.45	30	Pass
NVNT	b	2462	Ant1	15.18	30	Pass
NVNT	g	2412	Ant1	14.98	30	Pass
NVNT	g	2437	Ant1	14.93	30	Pass
NVNT	g	2462	Ant1	14.61	30	Pass
NVNT	n20	2412	Ant1	13.2	30	Pass
NVNT	n20	2437	Ant1	13.52	30	Pass
NVNT	n20	2462	Ant1	13.24	30	Pass
NVNT	n40	2422	Ant1	12.18	30	Pass
NVNT	n40	2437	Ant1	12.05	30	Pass
NVNT	n40	2452	Ant1	12.03	30	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6.32	8	Pass
NVNT	b	2437	Ant1	-8.34	8	Pass
NVNT	b	2462	Ant1	-6.64	8	Pass
NVNT	g	2412	Ant1	-13.32	8	Pass
NVNT	g	2437	Ant1	-13.2	8	Pass
NVNT	g	2462	Ant1	-13.39	8	Pass
NVNT	n20	2412	Ant1	-15.85	8	Pass
NVNT	n20	2437	Ant1	-15.28	8	Pass
NVNT	n20	2462	Ant1	-16.66	8	Pass
NVNT	n40	2422	Ant1	-19.08	8	Pass
NVNT	n40	2437	Ant1	-20.05	8	Pass
NVNT	n40	2452	Ant1	-20.86	8	Pass

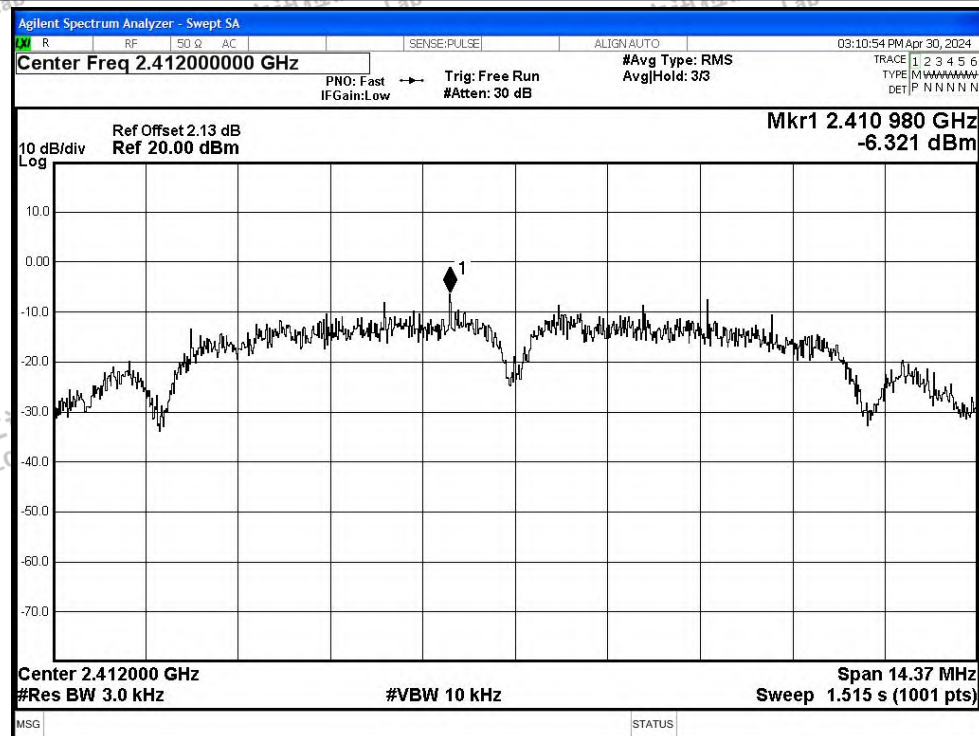


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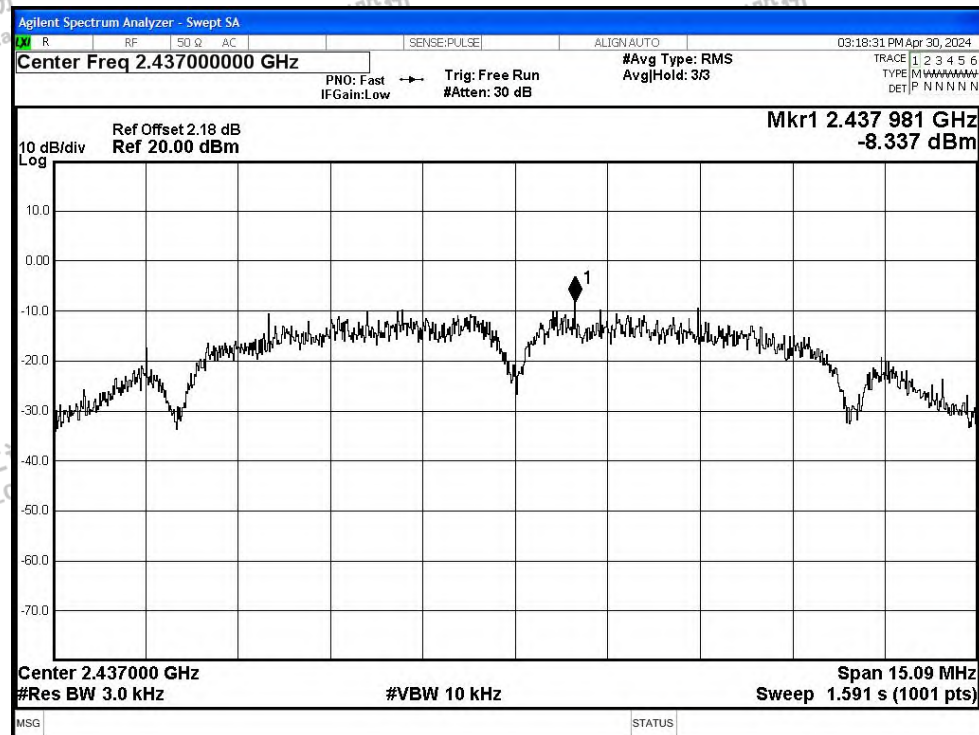


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

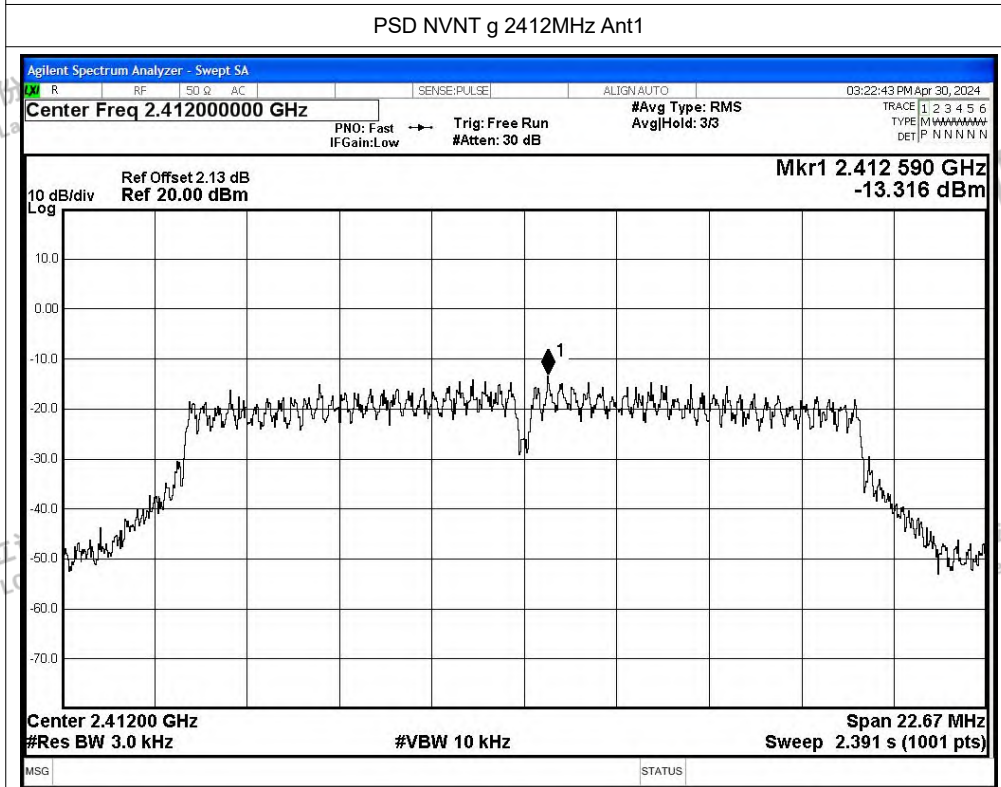
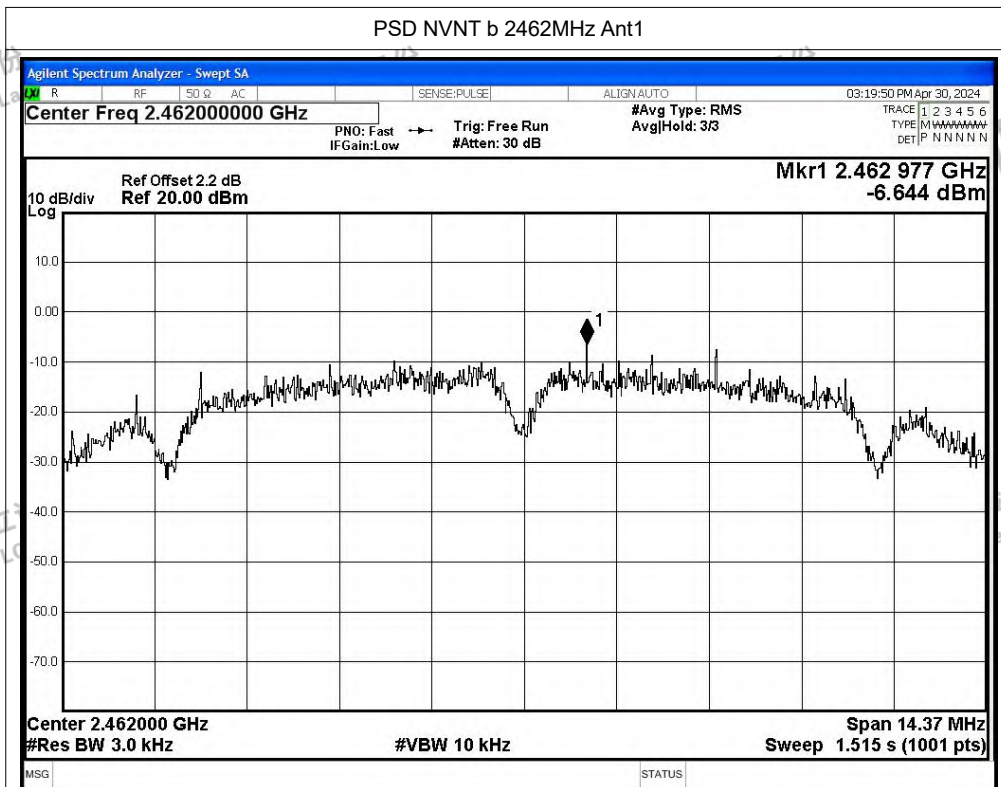


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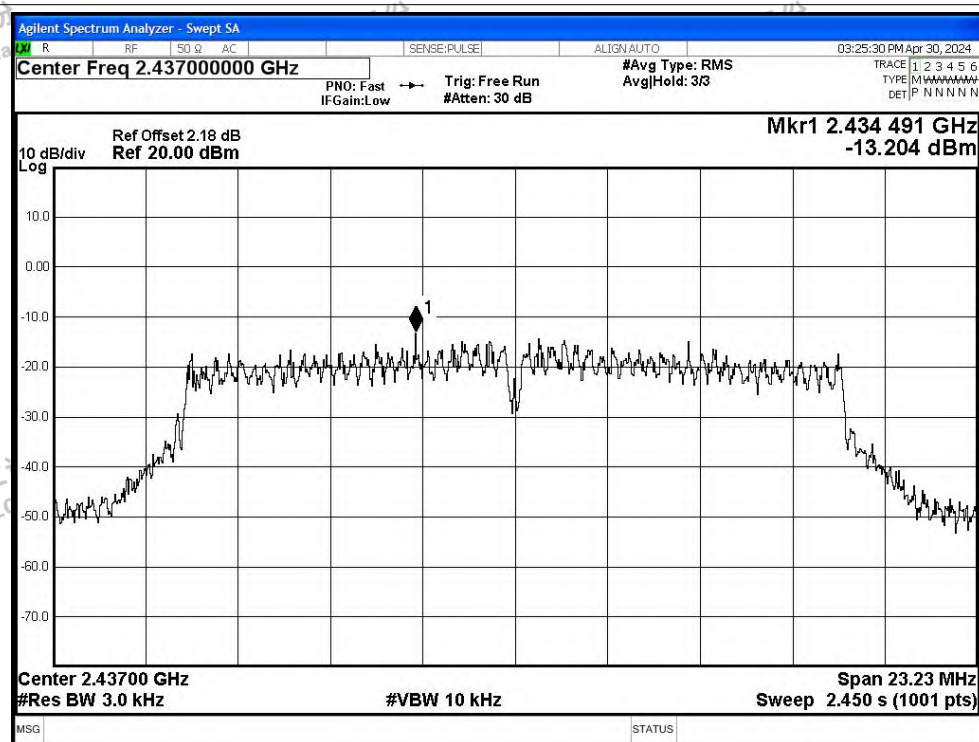
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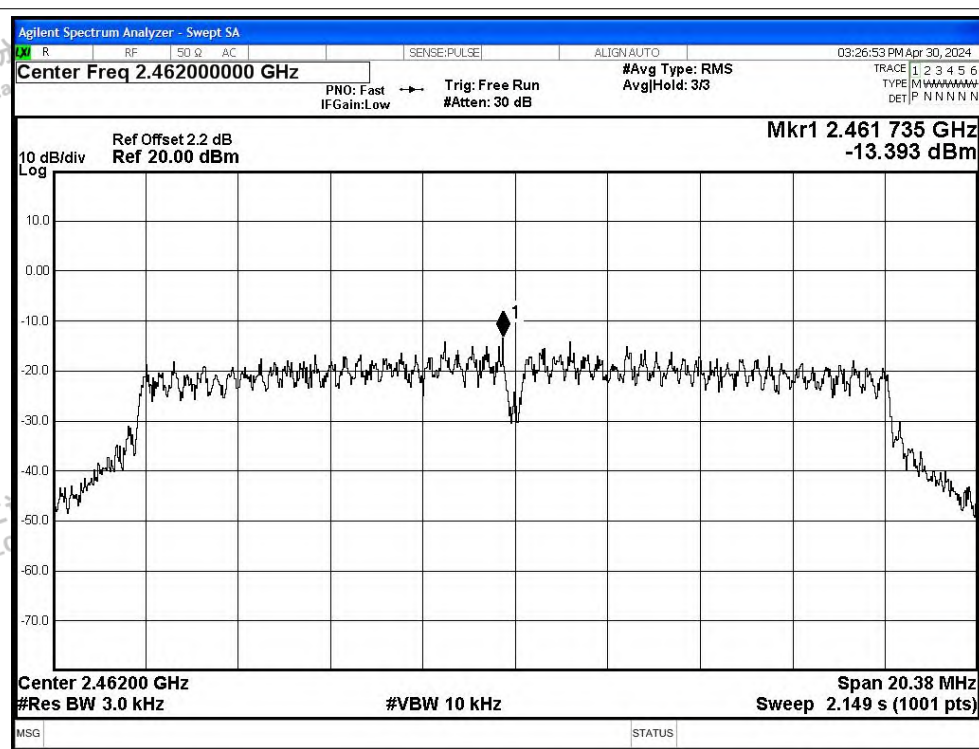
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

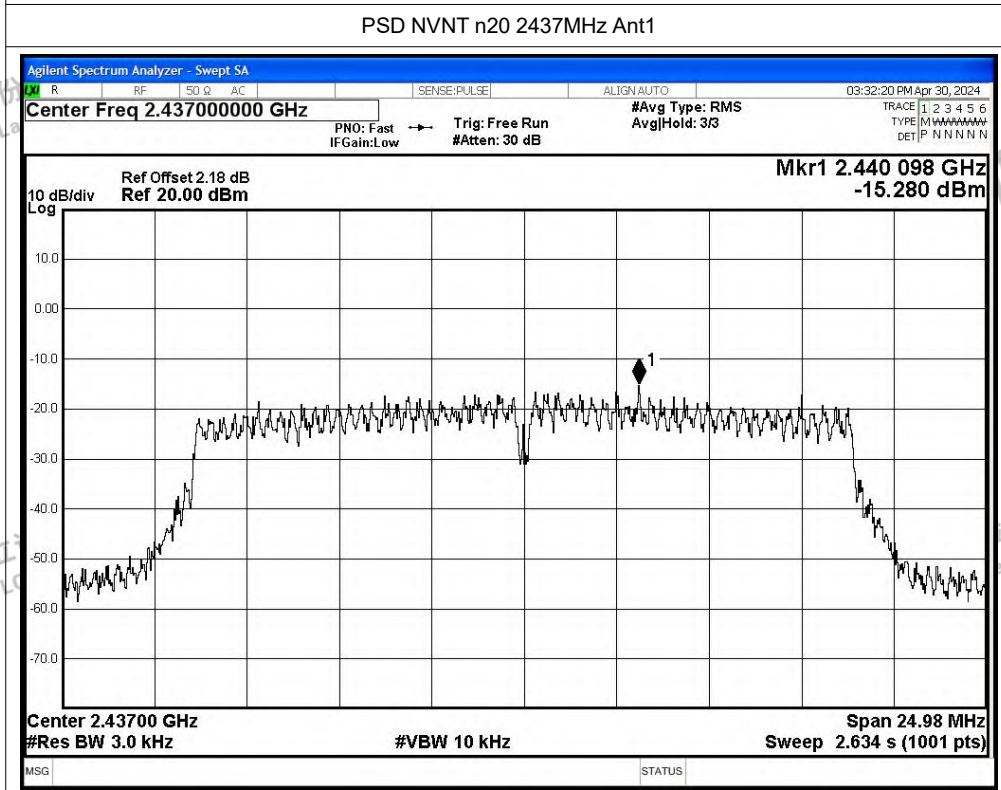
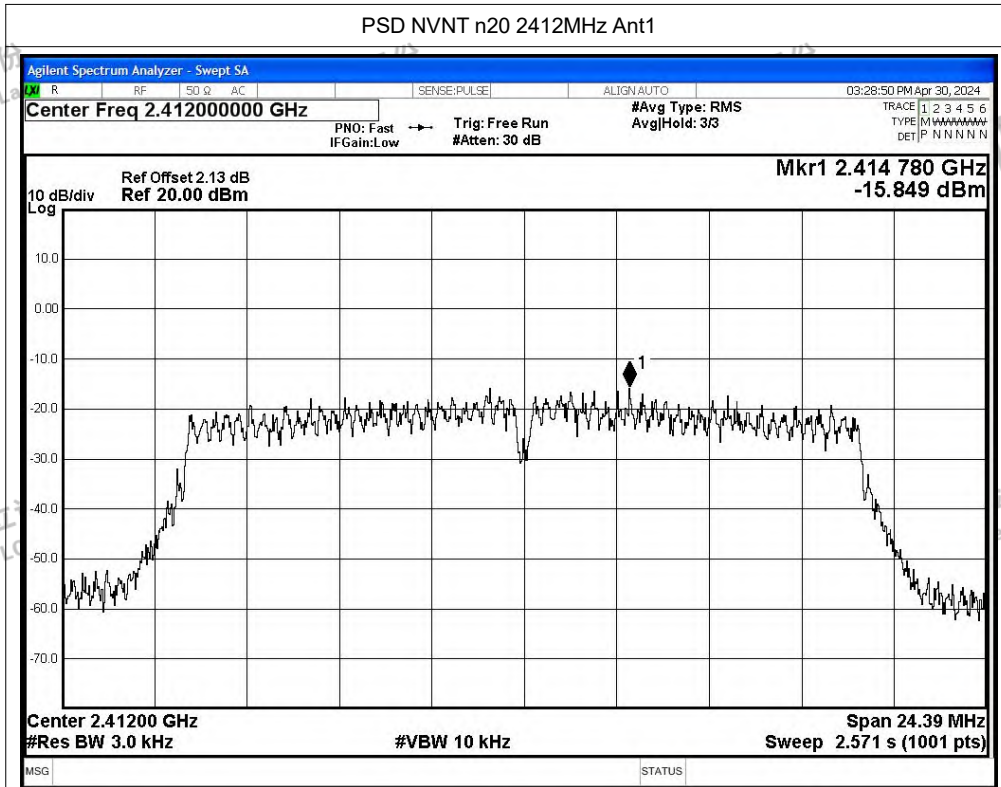


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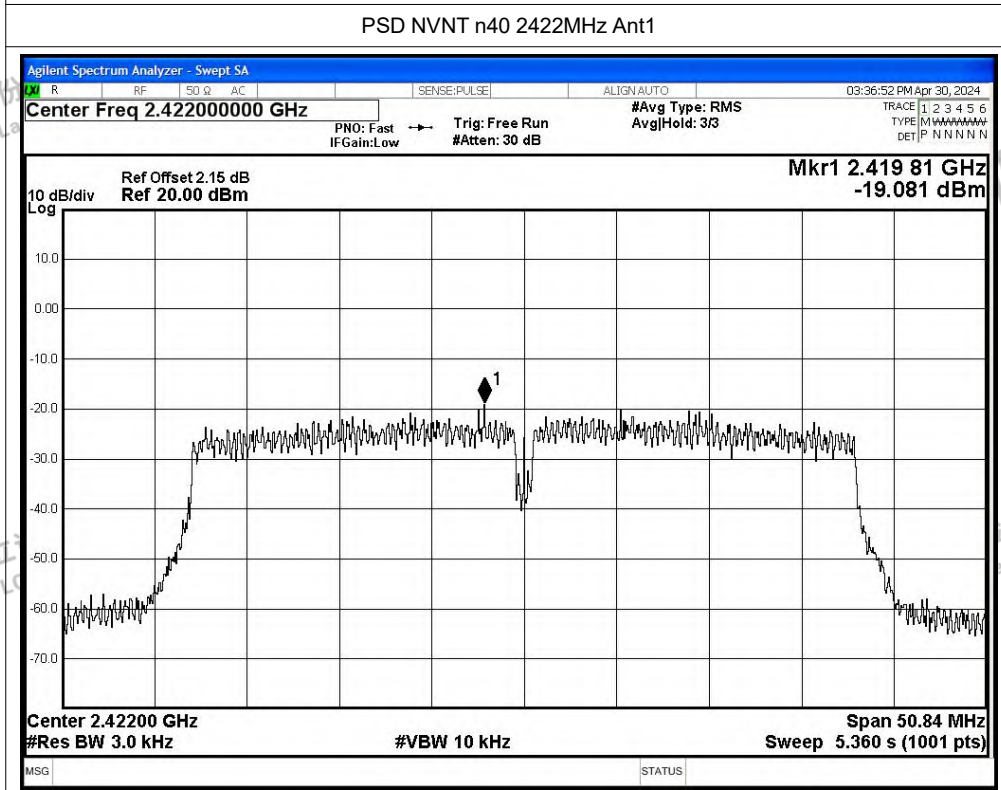
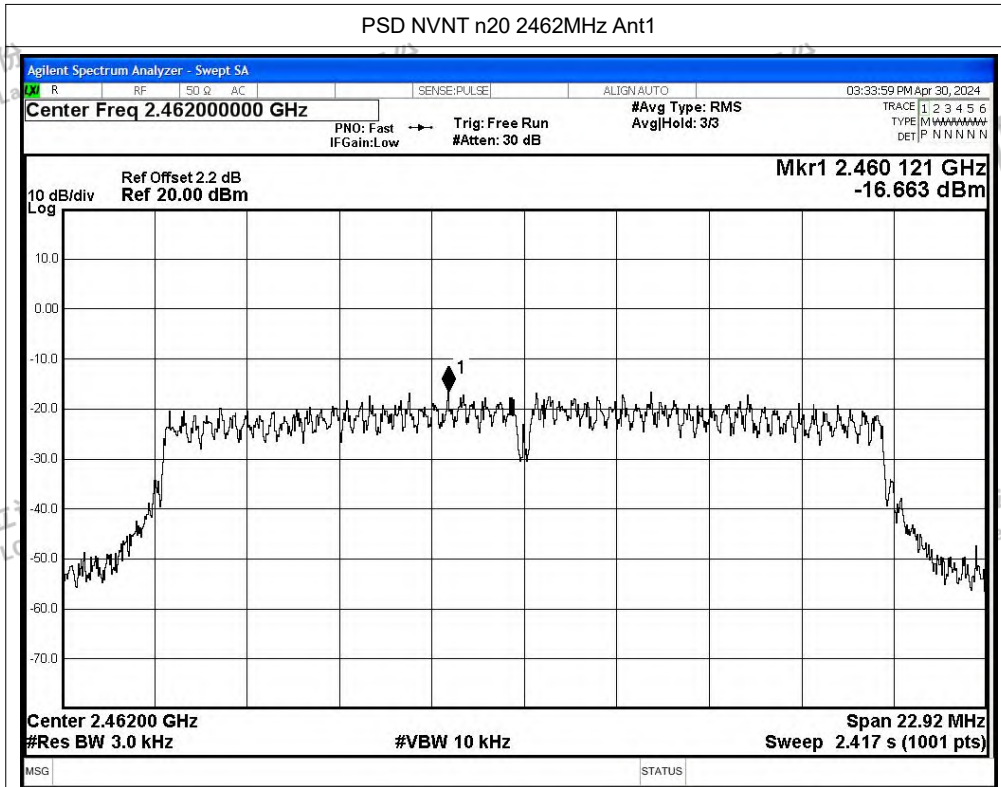


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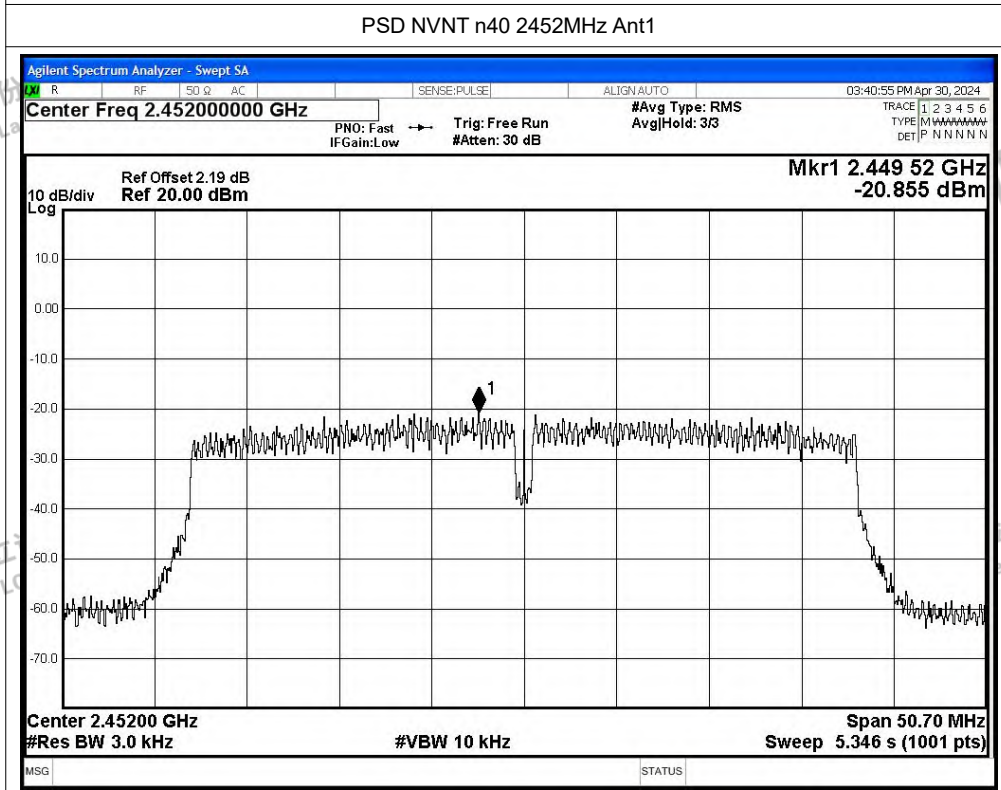
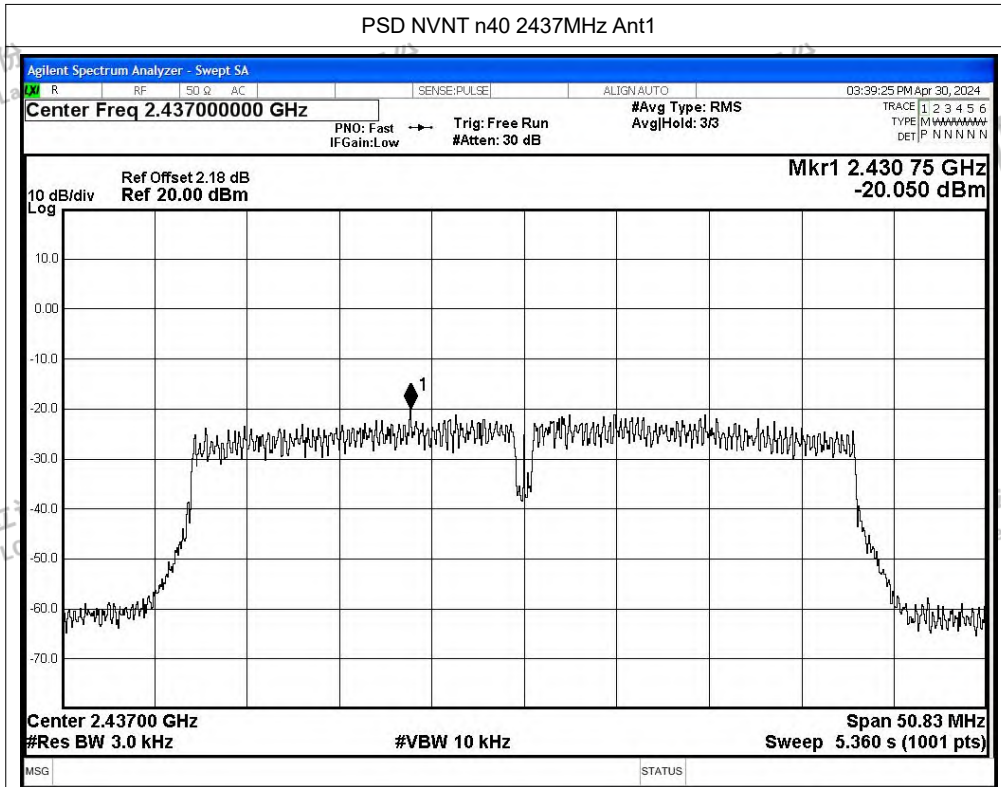


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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-38.54	-20	Pass
NVNT	b	2462	Ant1	-50.87	-20	Pass
NVNT	g	2412	Ant1	-31.18	-20	Pass
NVNT	g	2462	Ant1	-43.9	-20	Pass
NVNT	n20	2412	Ant1	-33.97	-20	Pass
NVNT	n20	2462	Ant1	-43.11	-20	Pass
NVNT	n40	2422	Ant1	-35.12	-20	Pass
NVNT	n40	2452	Ant1	-38.51	-20	Pass

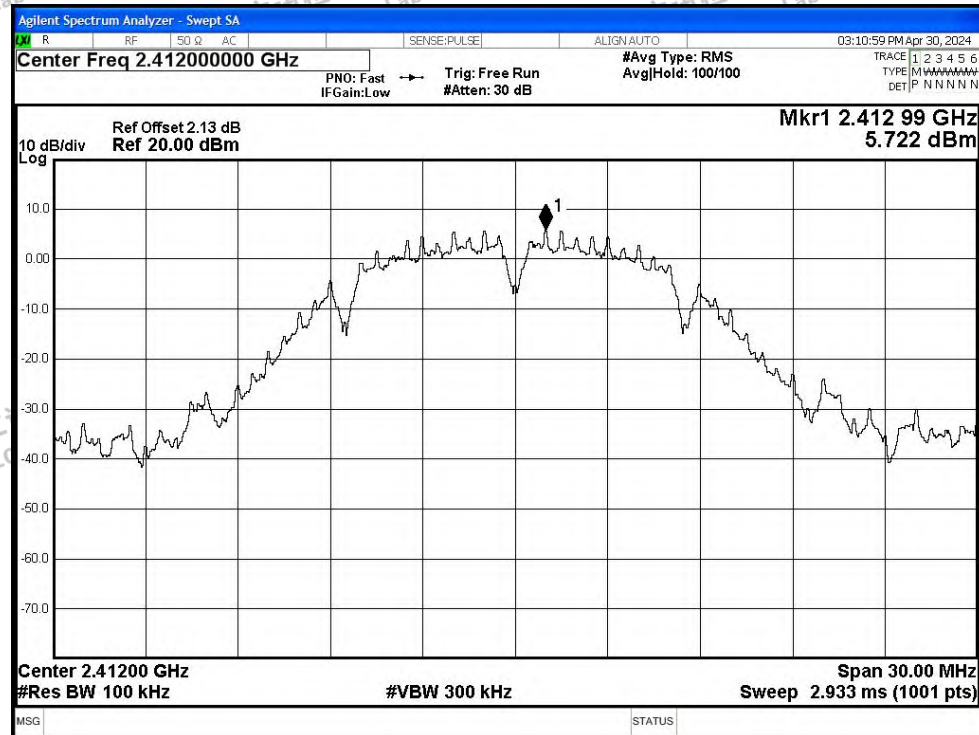


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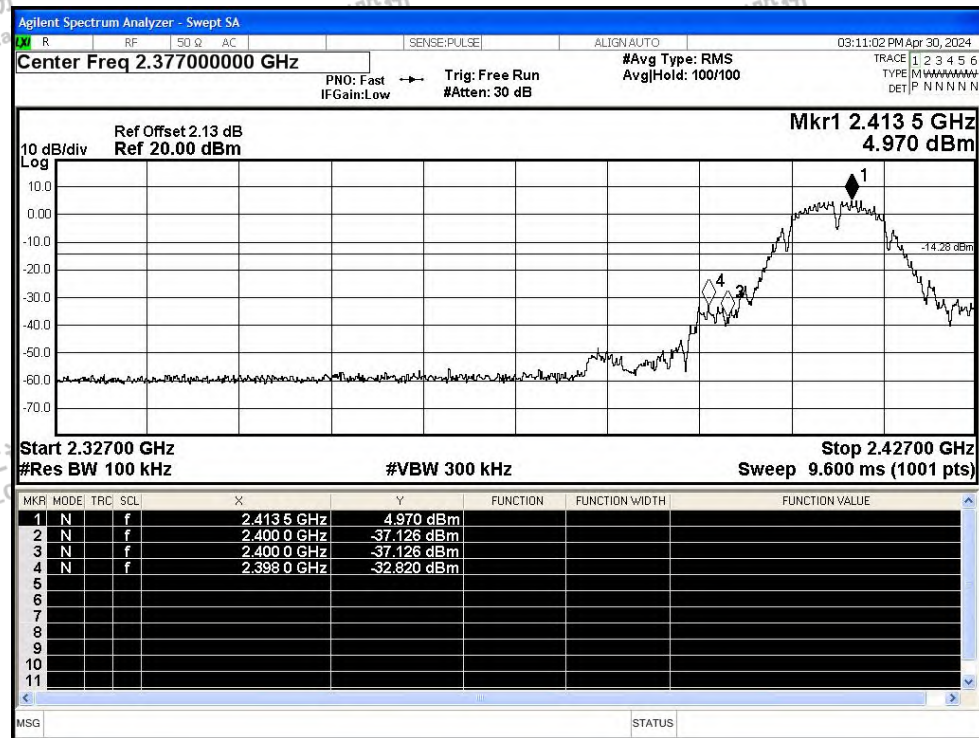


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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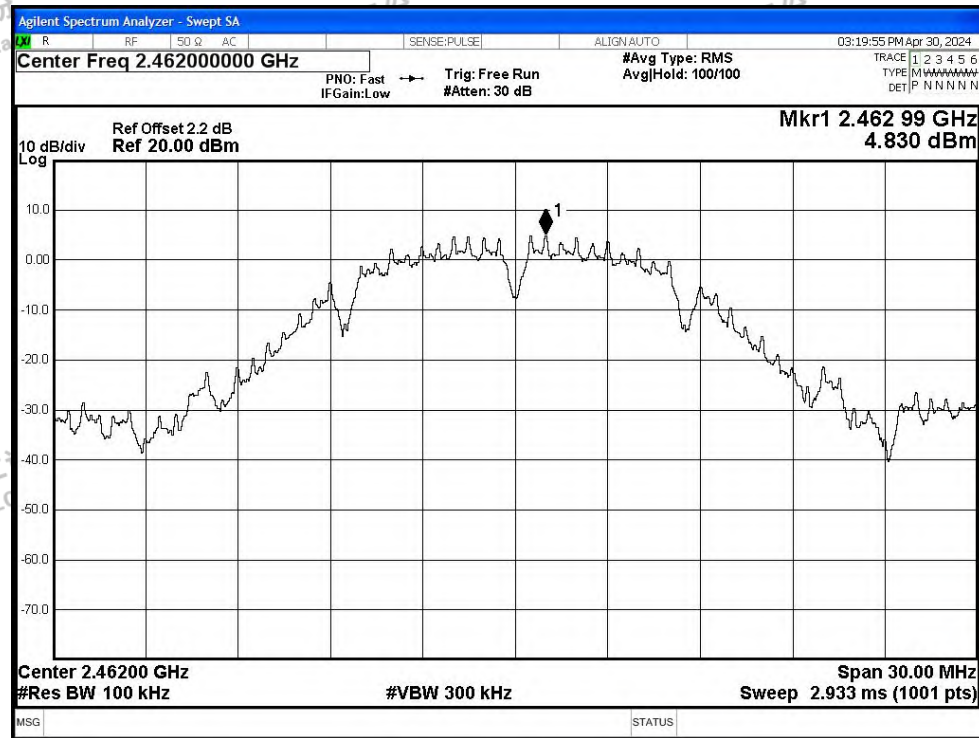
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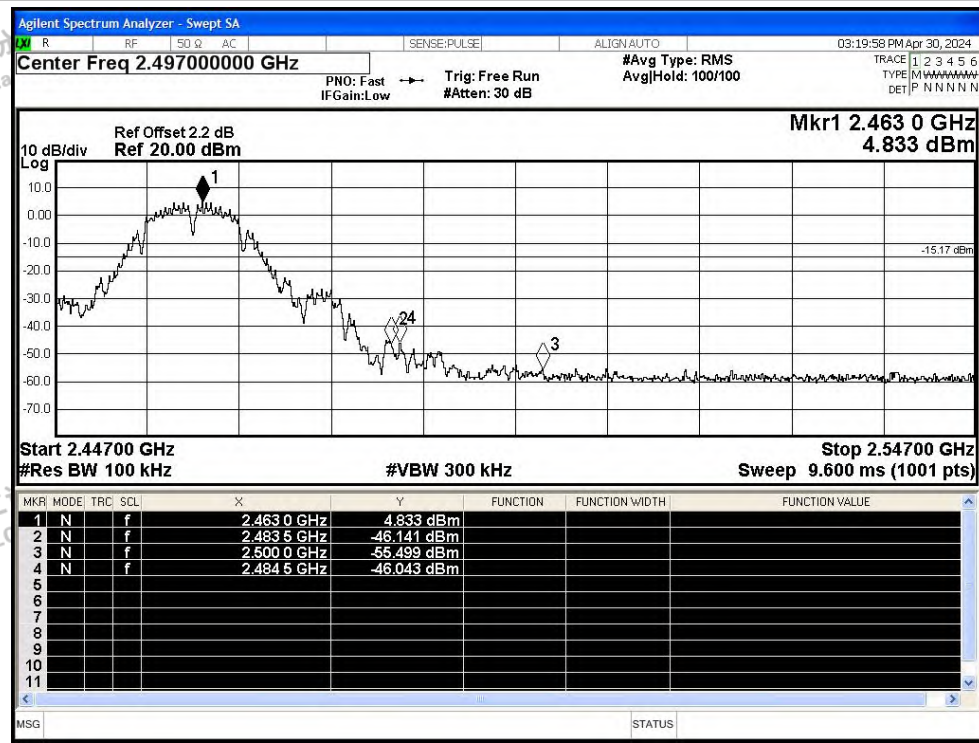
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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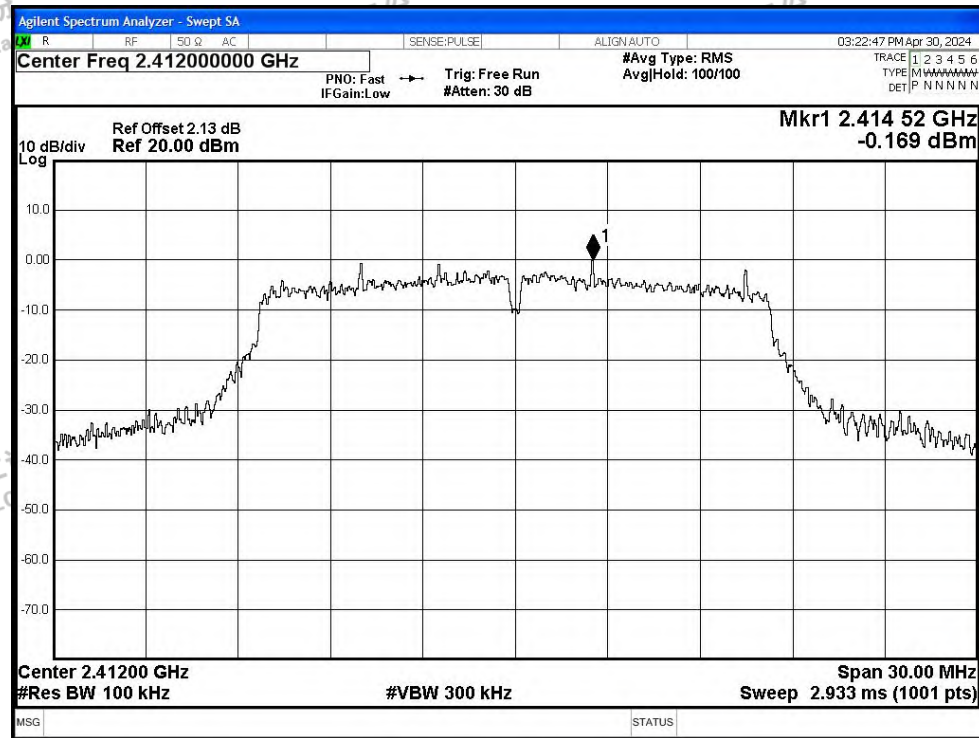
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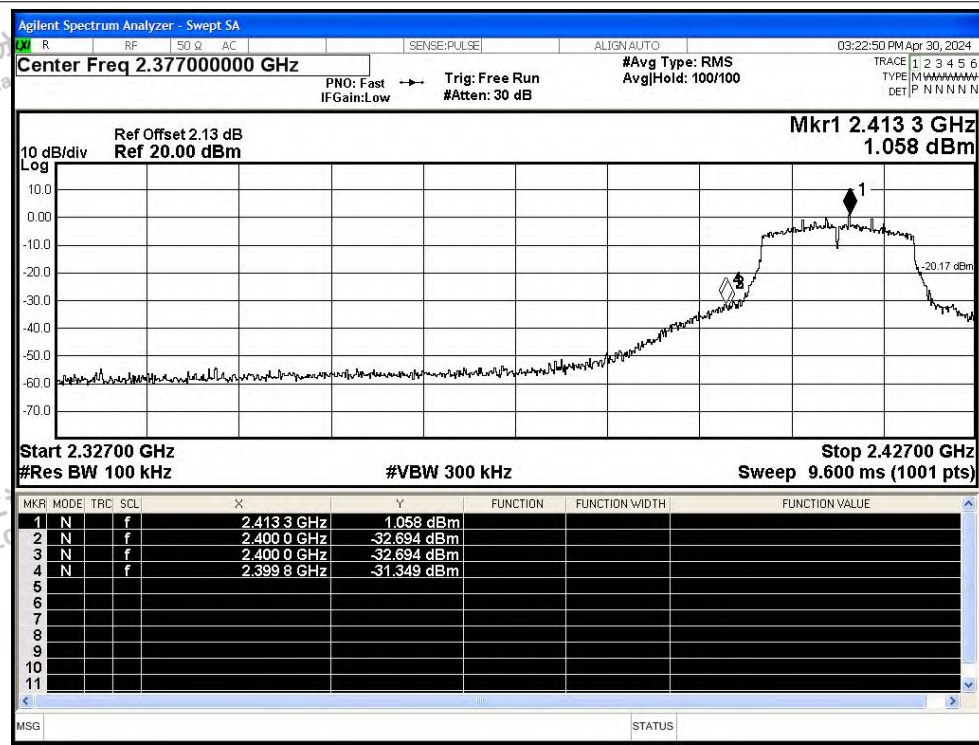
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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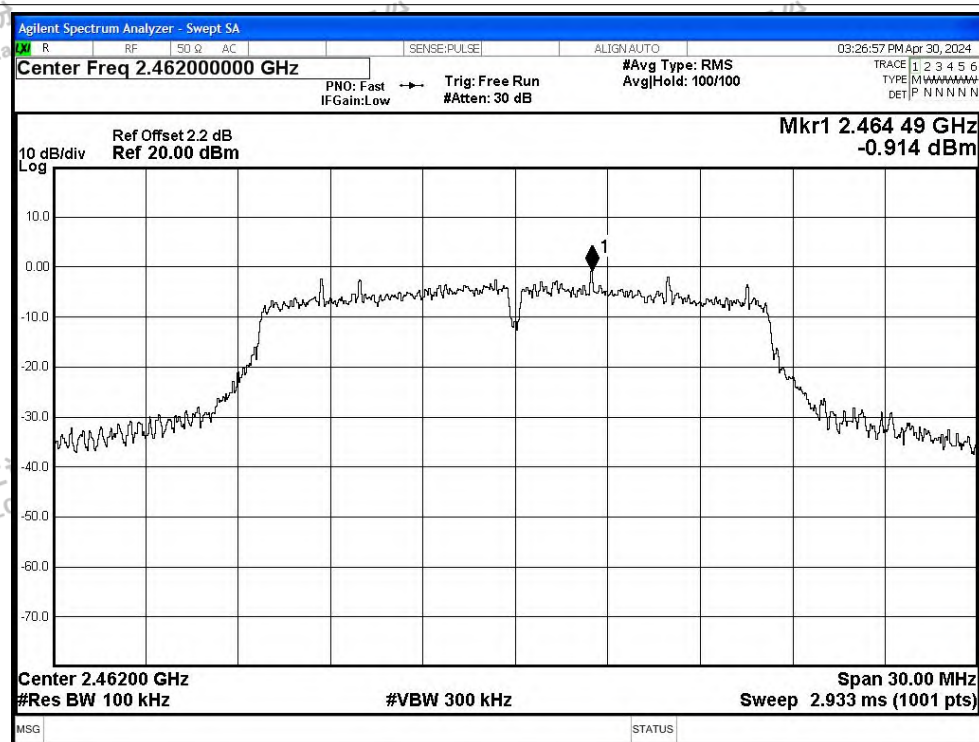
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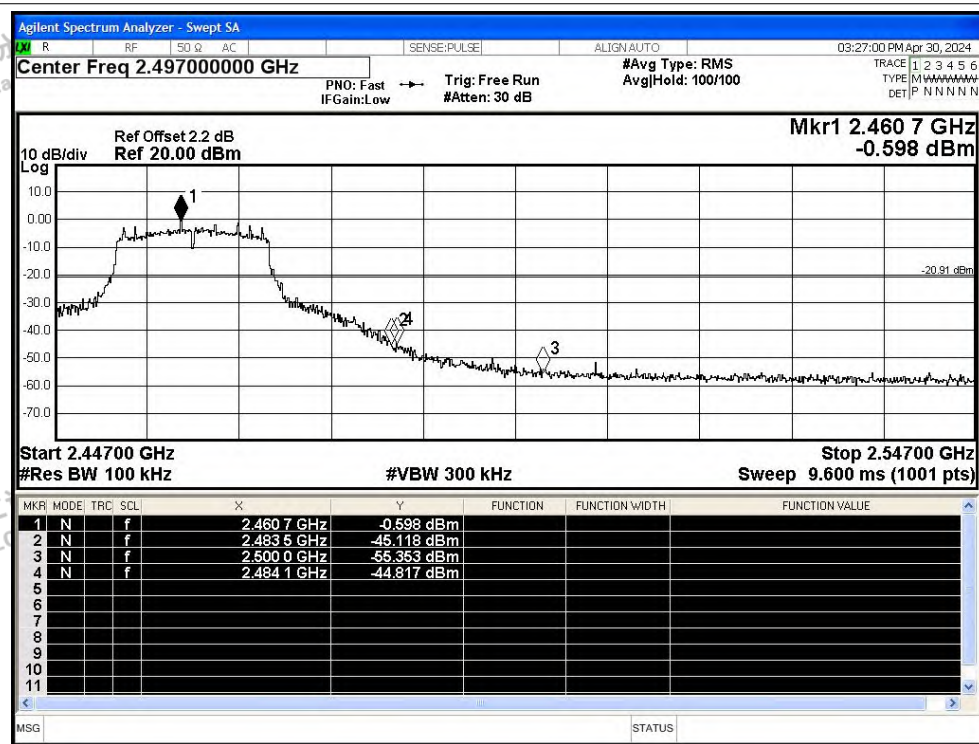
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission

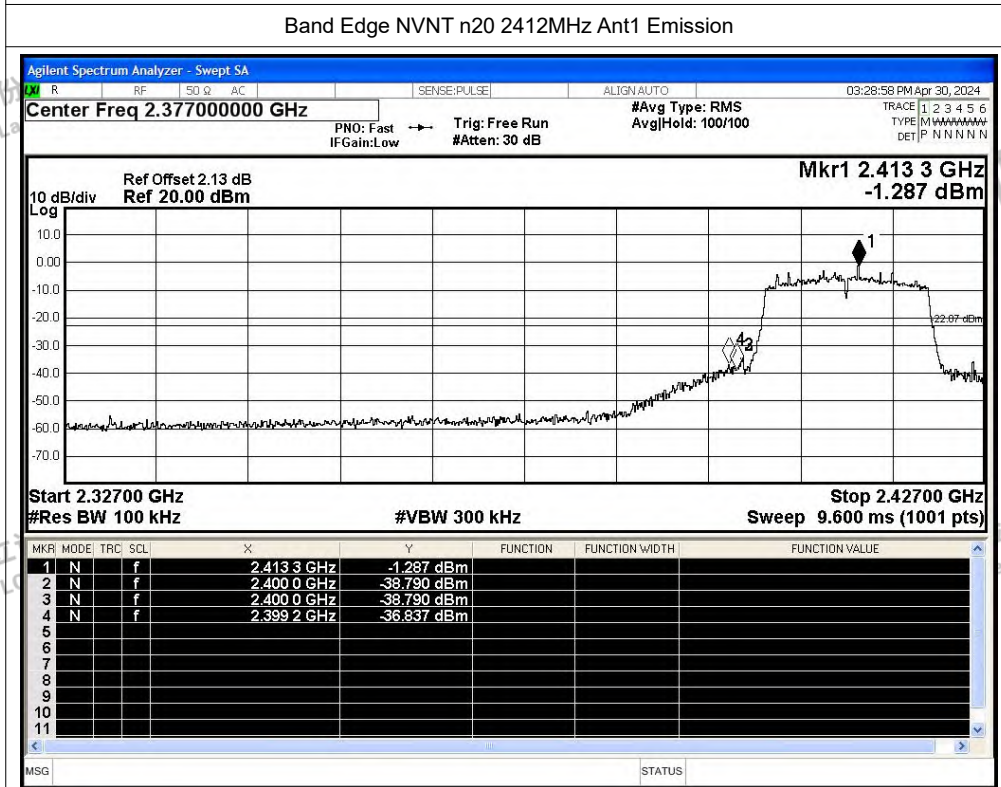
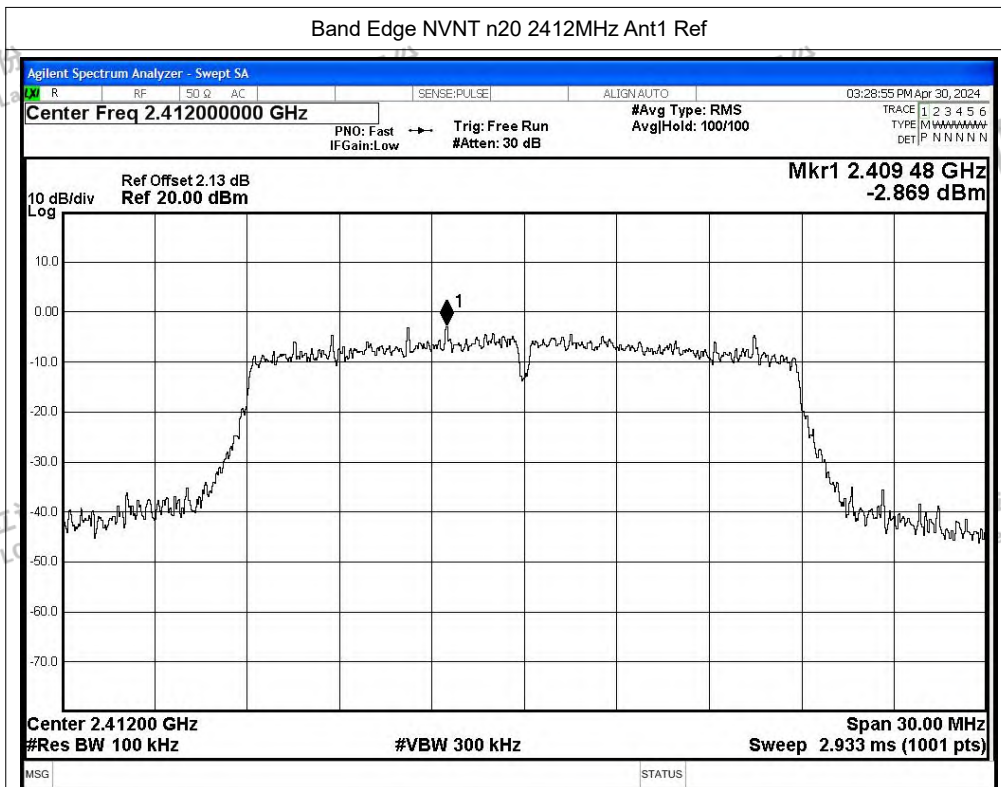


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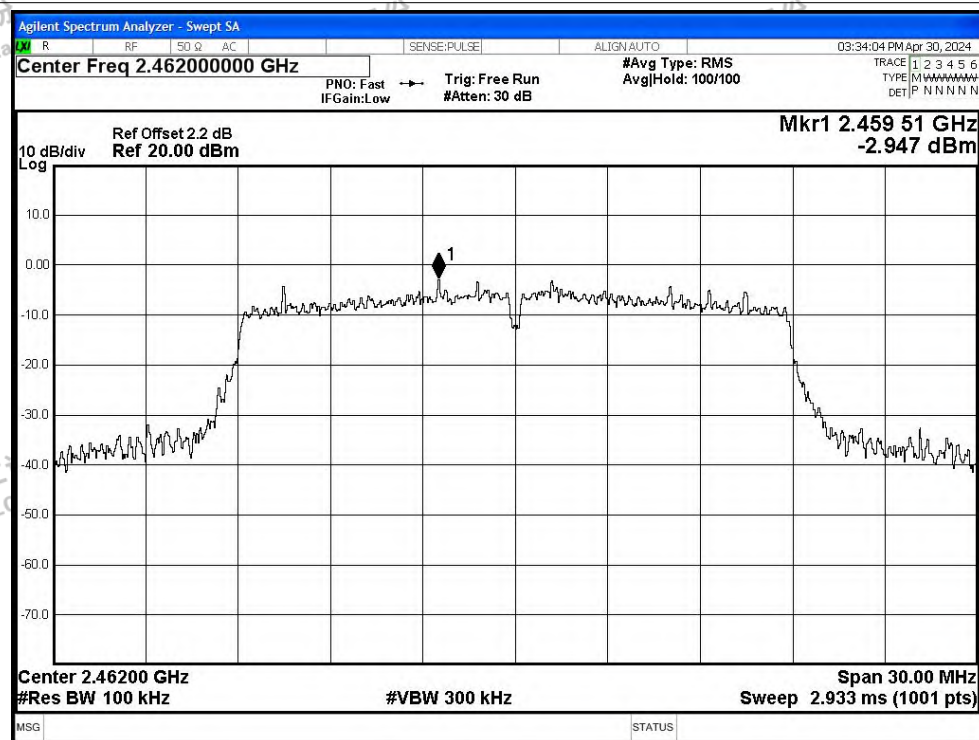
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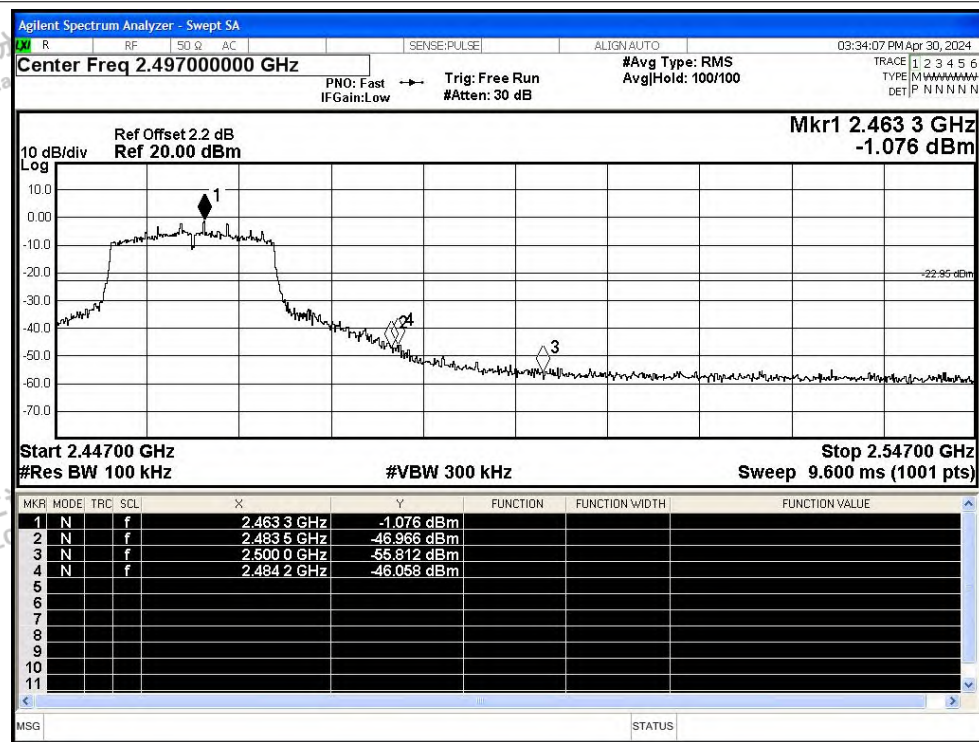
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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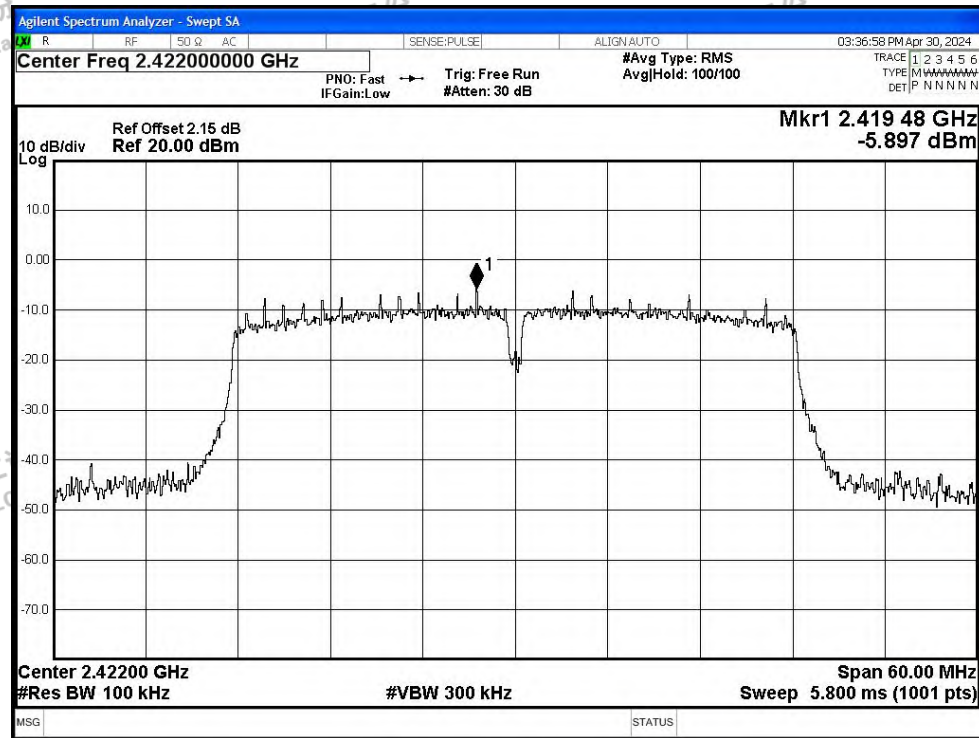
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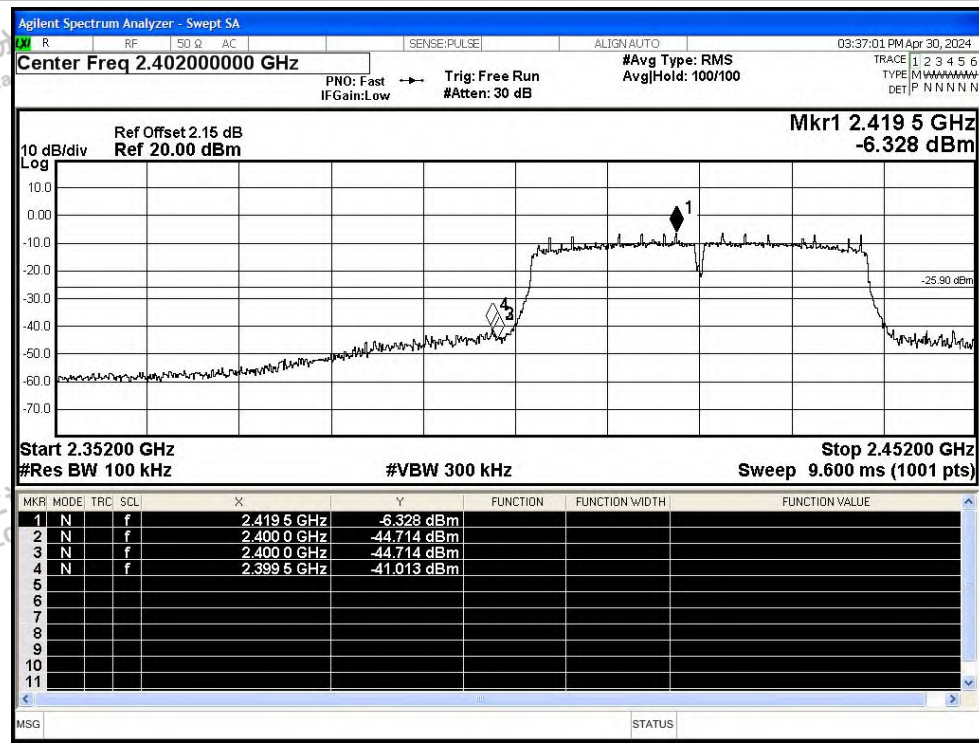
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Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



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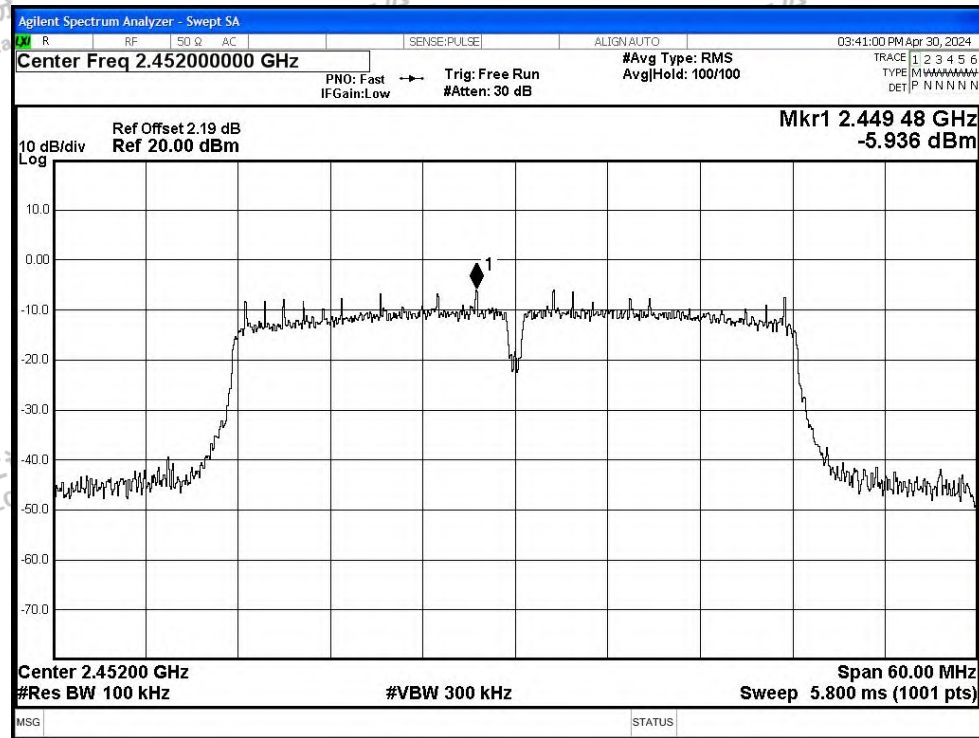
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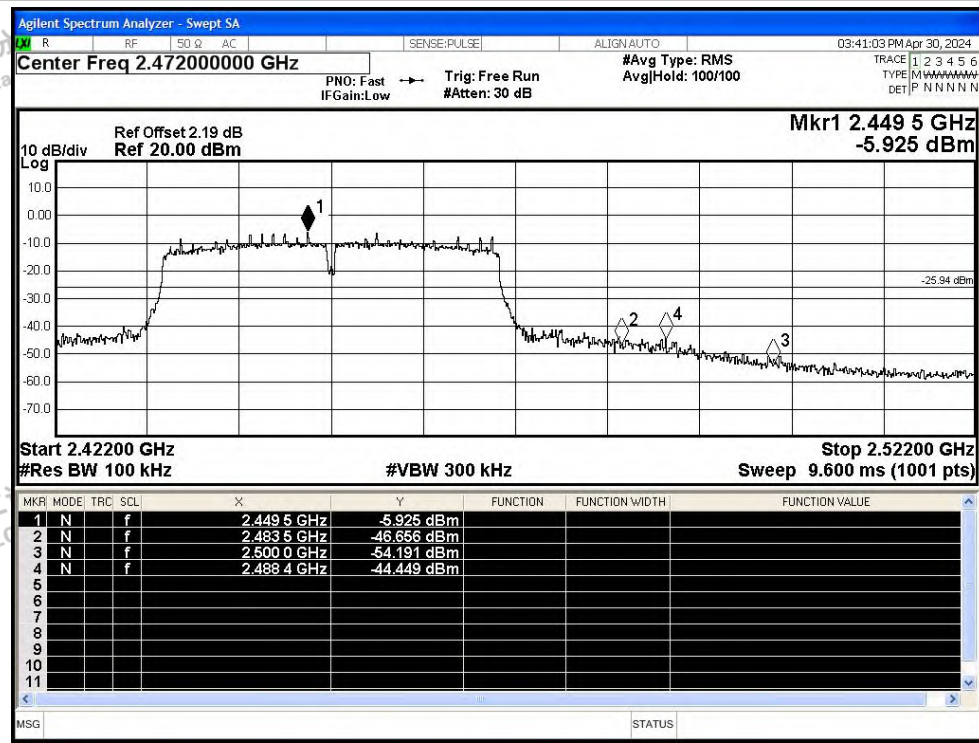
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 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	-52.11	-20	Pass
NVNT	b	2437	Ant1	-52.15	-20	Pass
NVNT	b	2462	Ant1	-50.49	-20	Pass
NVNT	g	2412	Ant1	-47.71	-20	Pass
NVNT	g	2437	Ant1	-44.39	-20	Pass
NVNT	g	2462	Ant1	-46.63	-20	Pass
NVNT	n20	2412	Ant1	-44.86	-20	Pass
NVNT	n20	2437	Ant1	-44.16	-20	Pass
NVNT	n20	2462	Ant1	-45.21	-20	Pass
NVNT	n40	2422	Ant1	-40.82	-20	Pass
NVNT	n40	2437	Ant1	-39.98	-20	Pass
NVNT	n40	2452	Ant1	-40.12	-20	Pass



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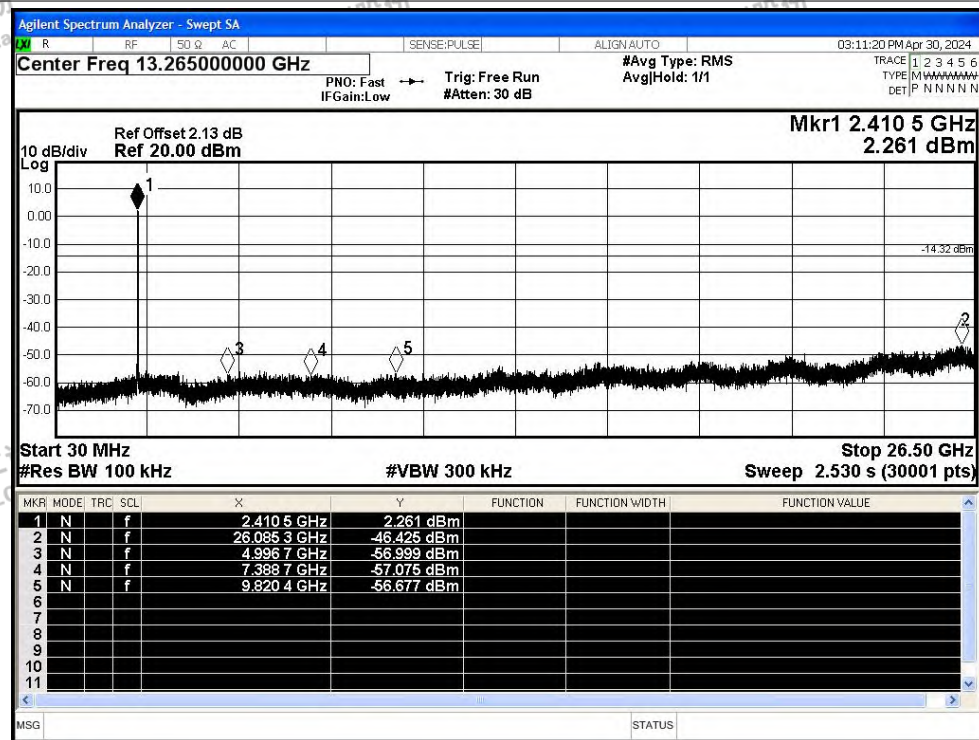


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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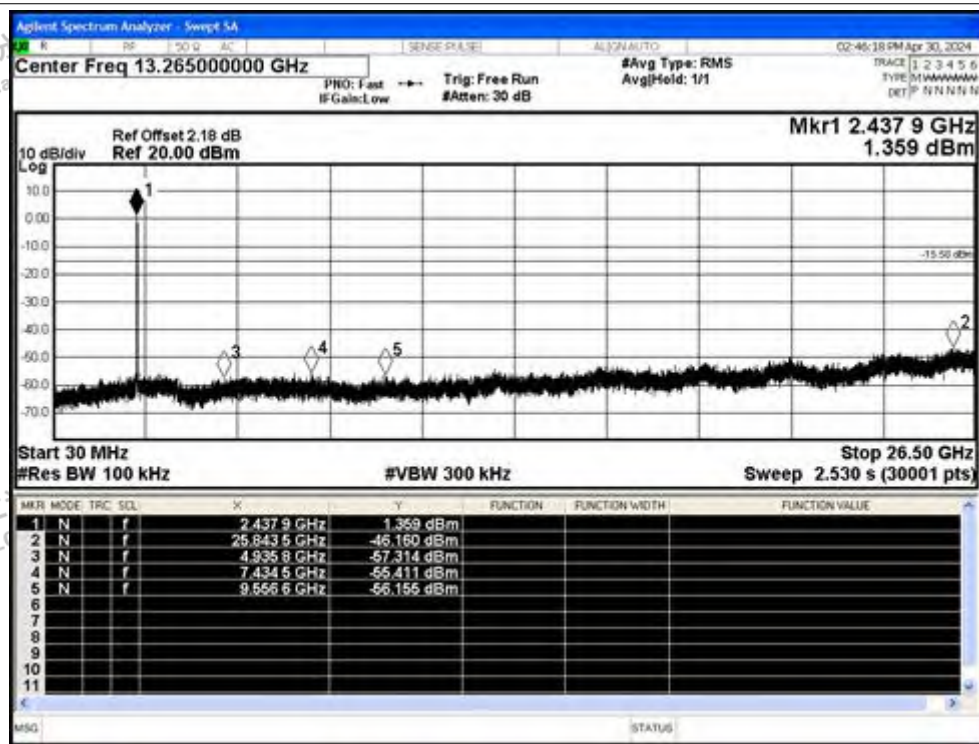
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

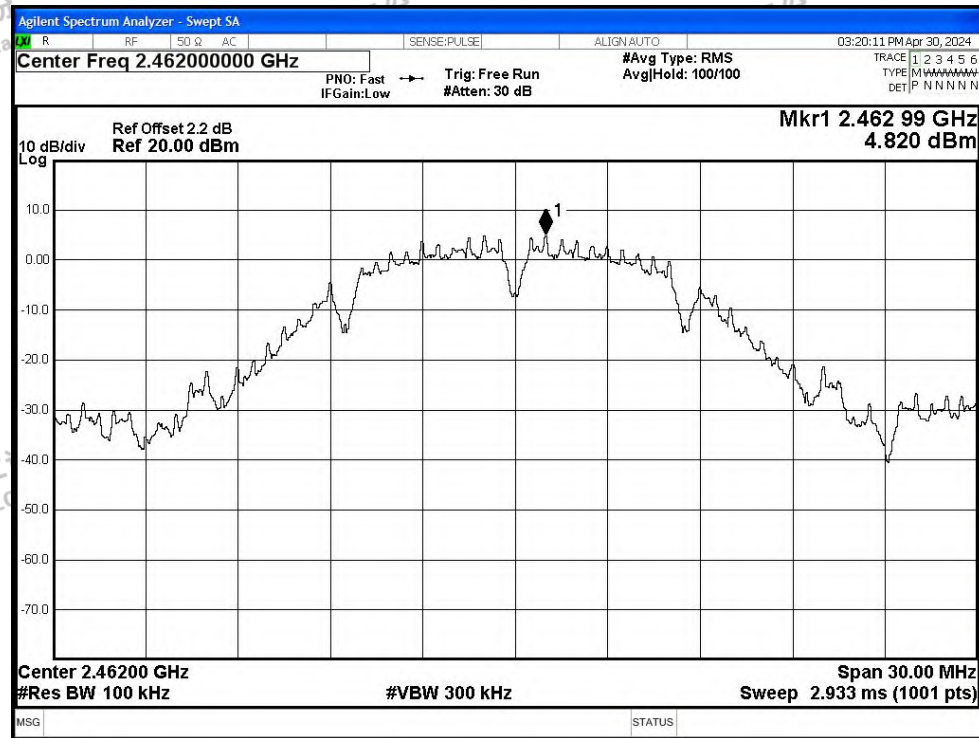
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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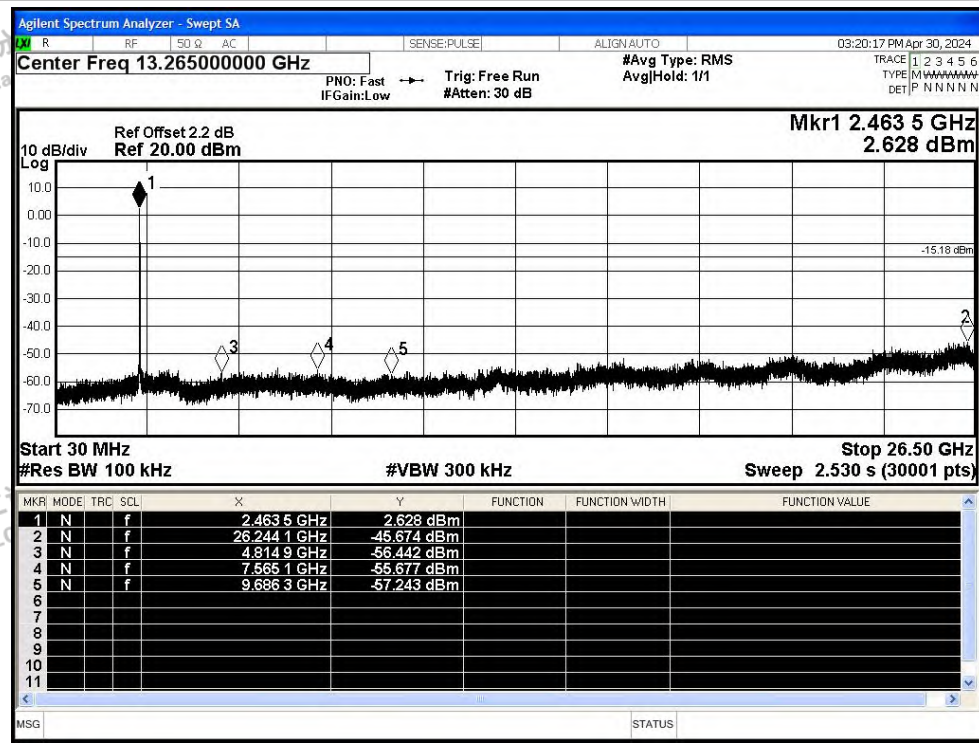
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Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

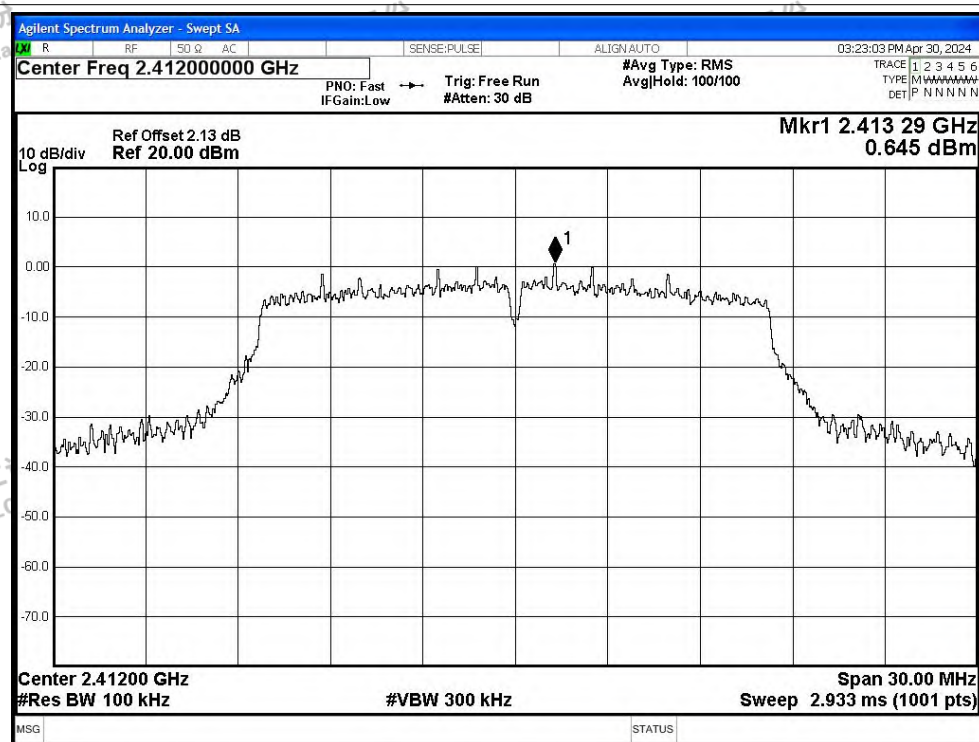
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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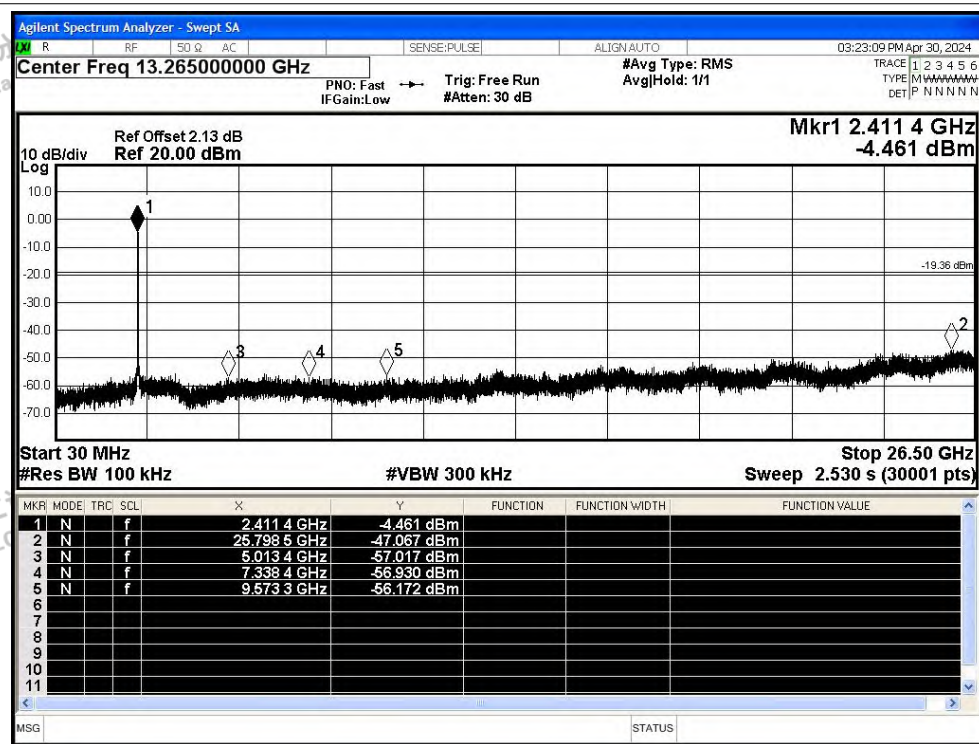
Scan code to check authenticity



Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

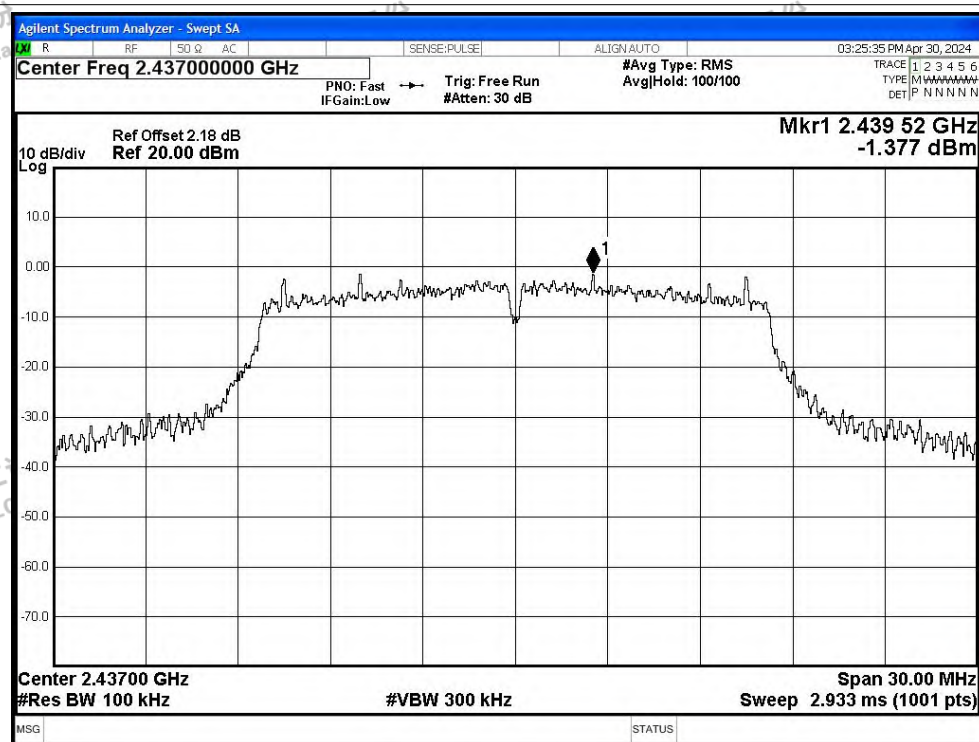
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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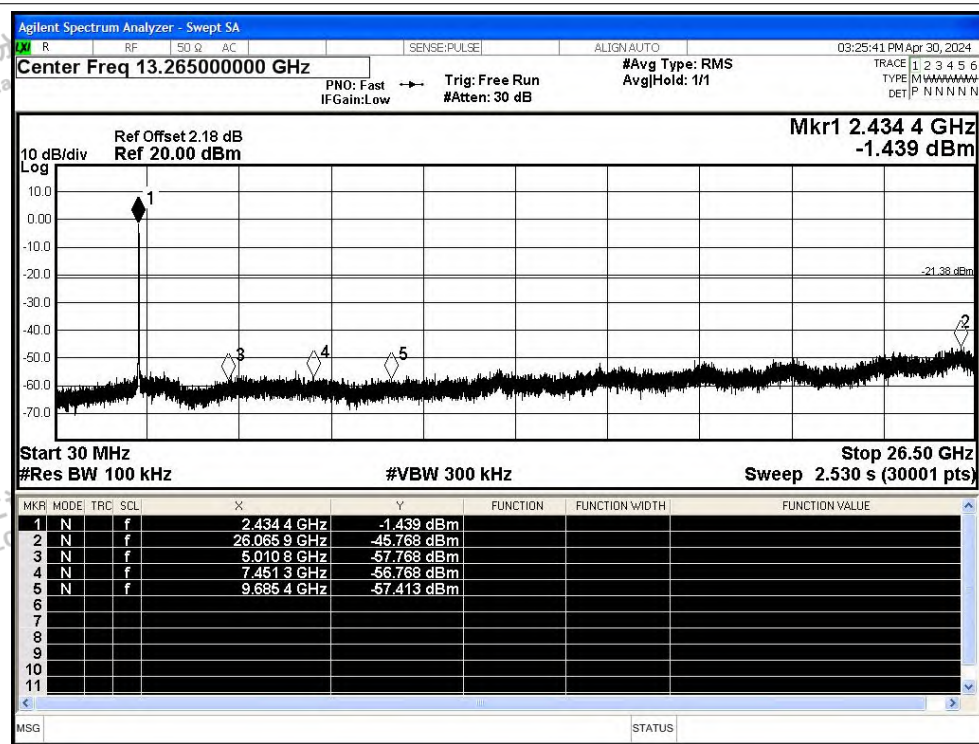
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

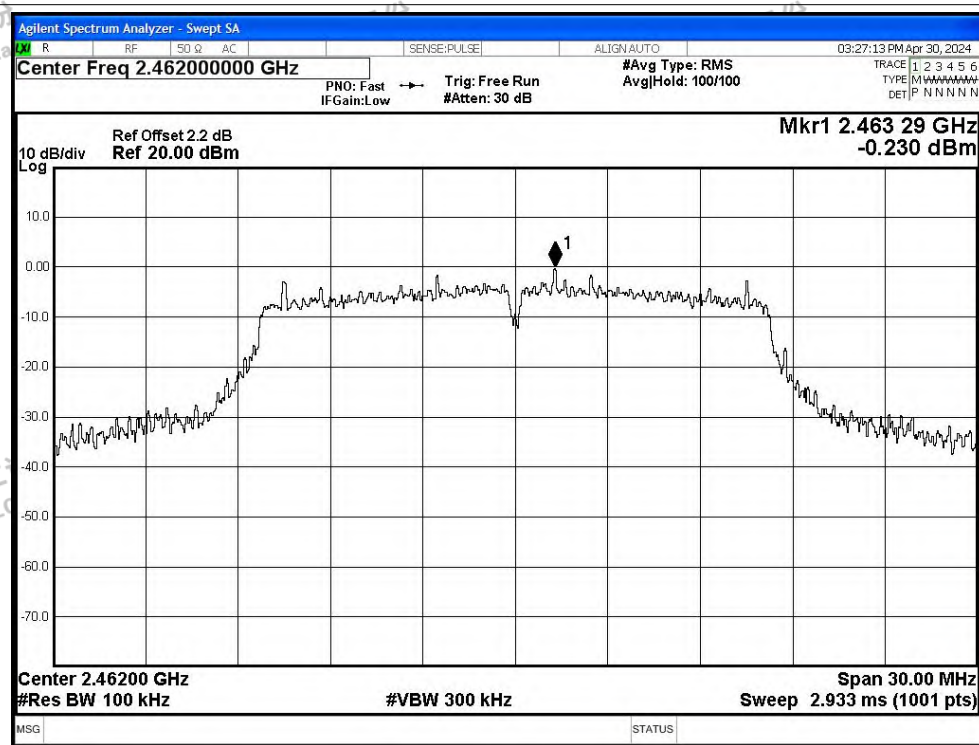
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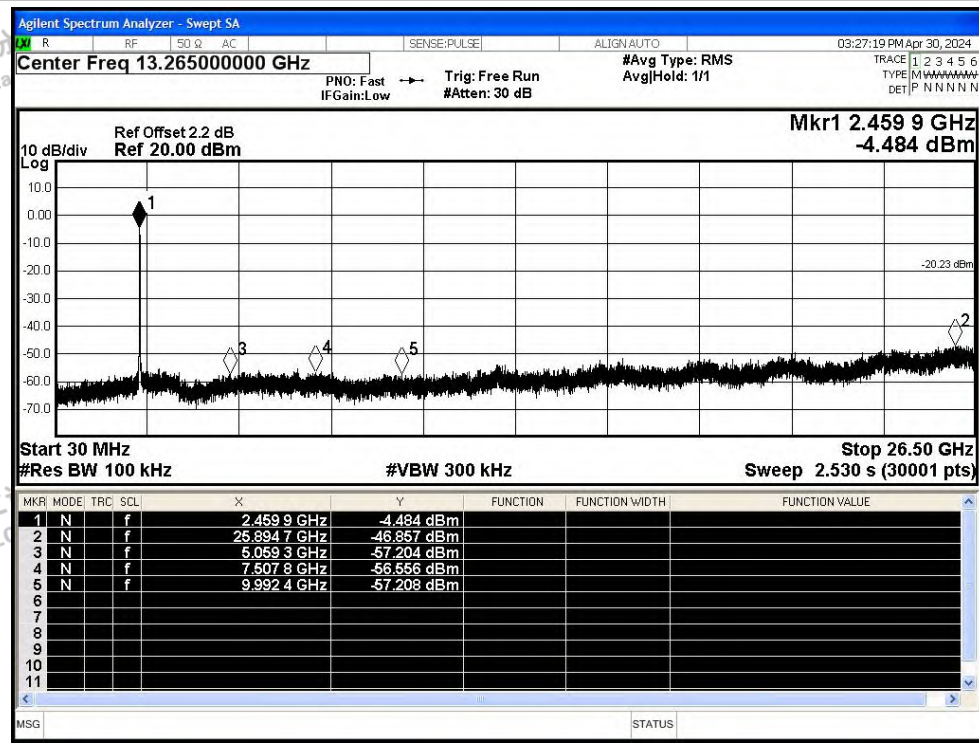
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

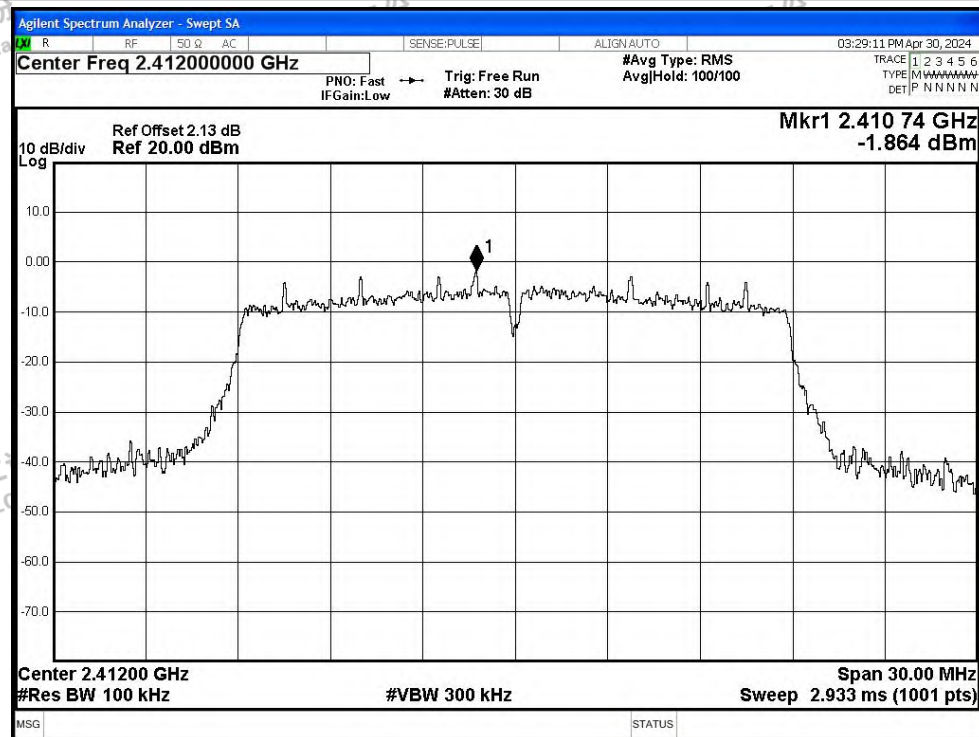
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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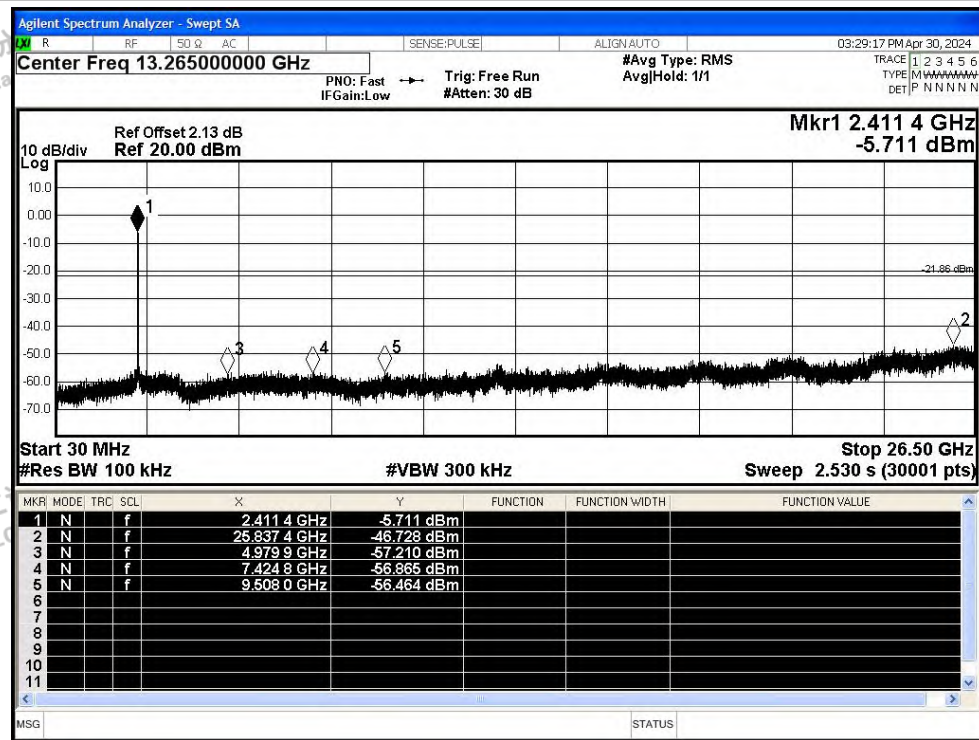
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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

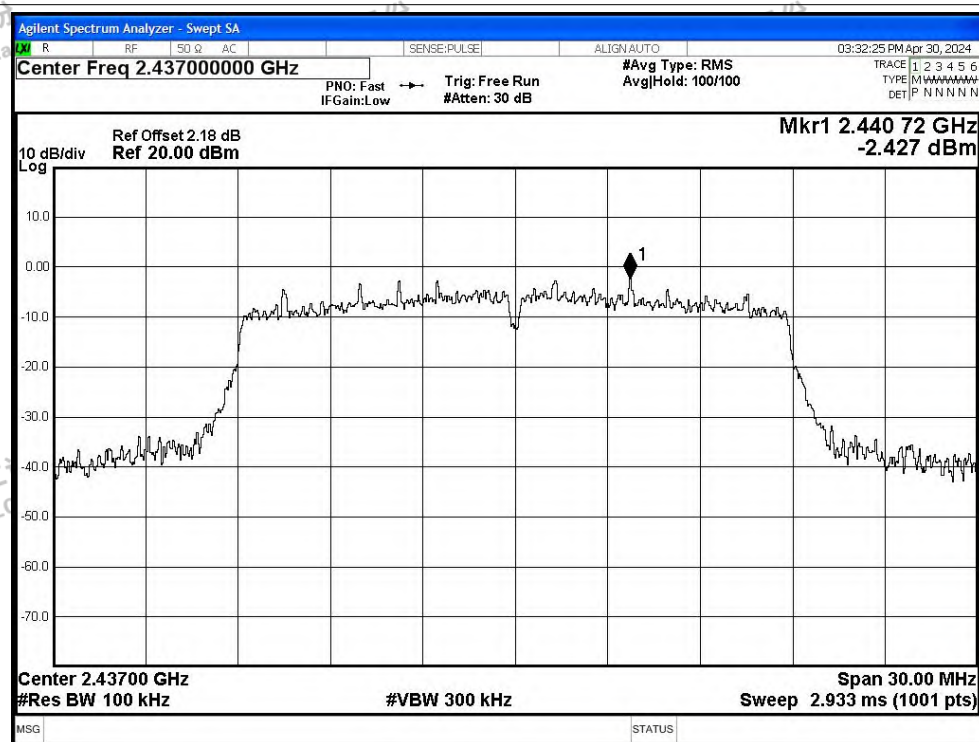
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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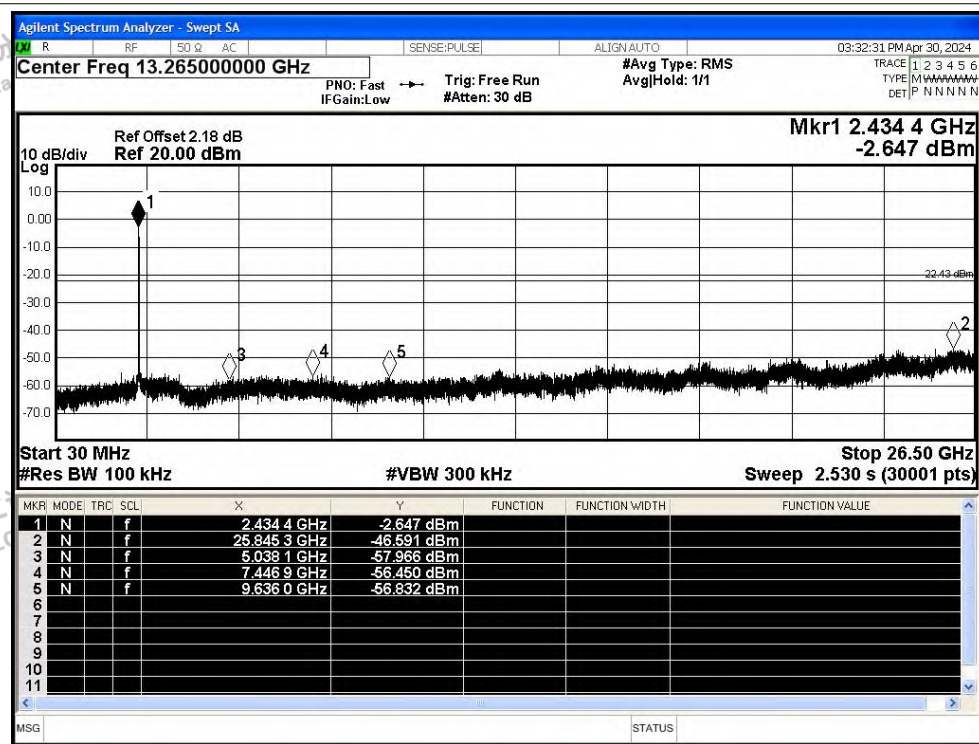
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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

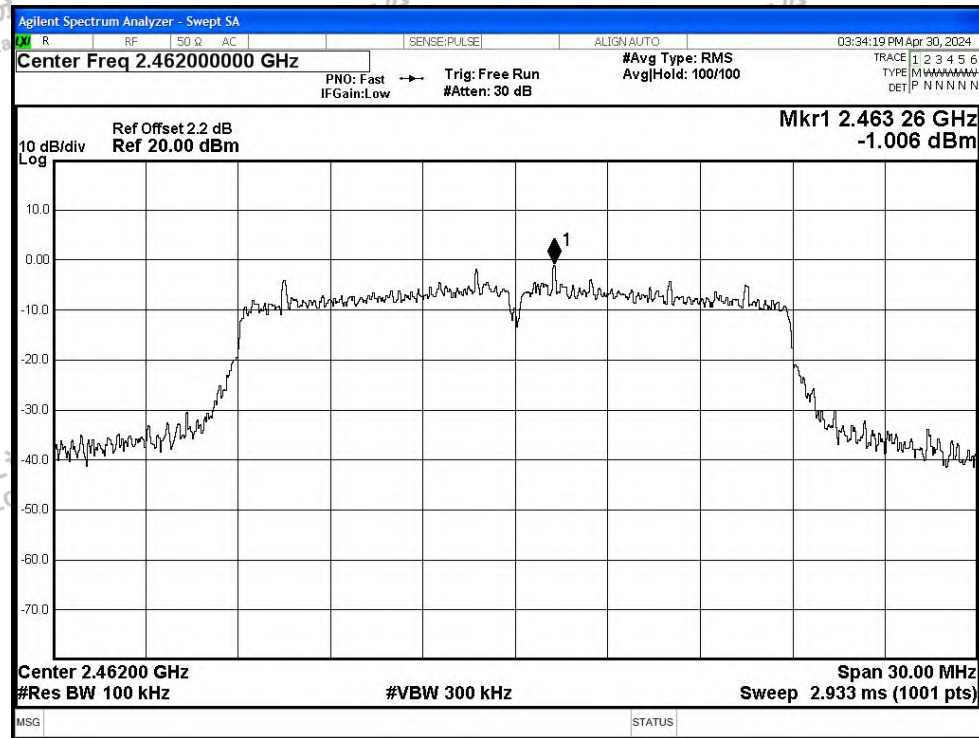
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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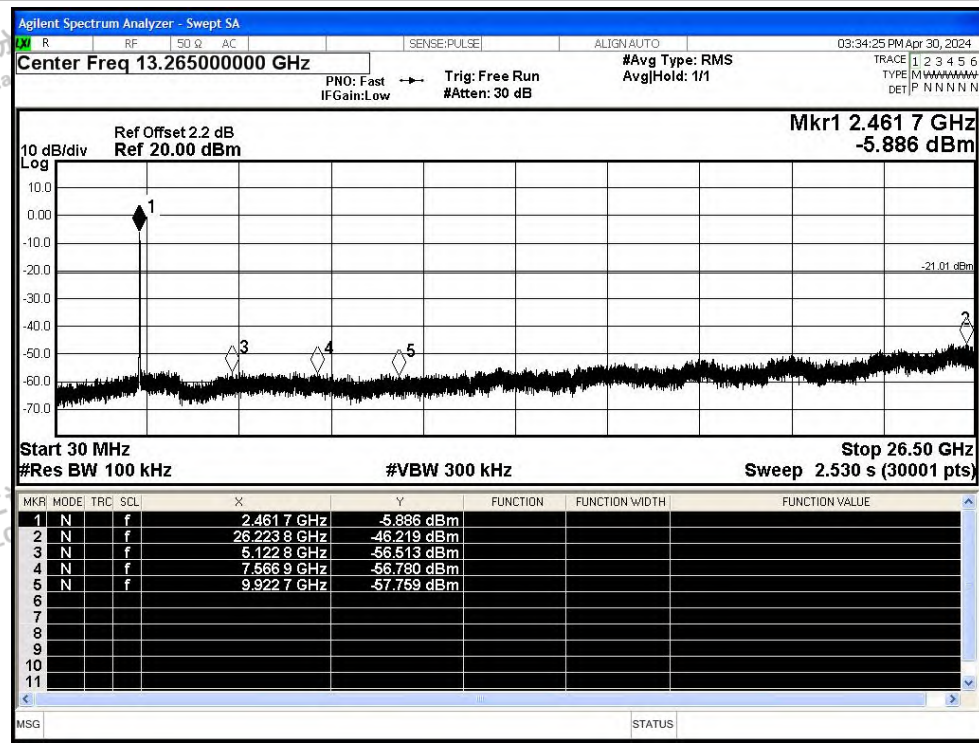
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

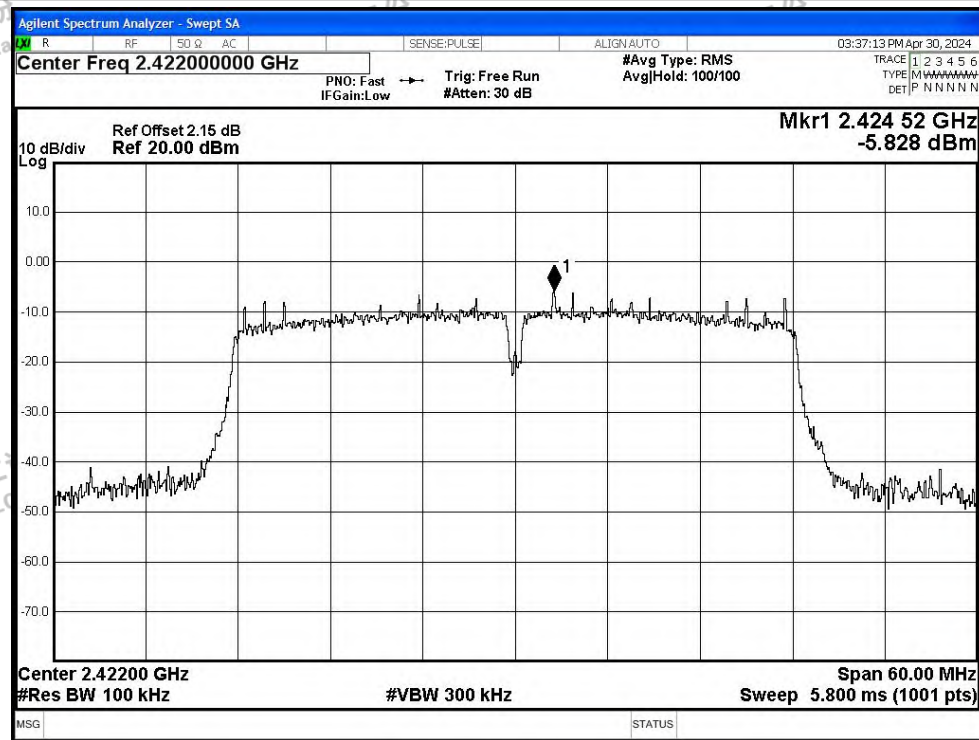
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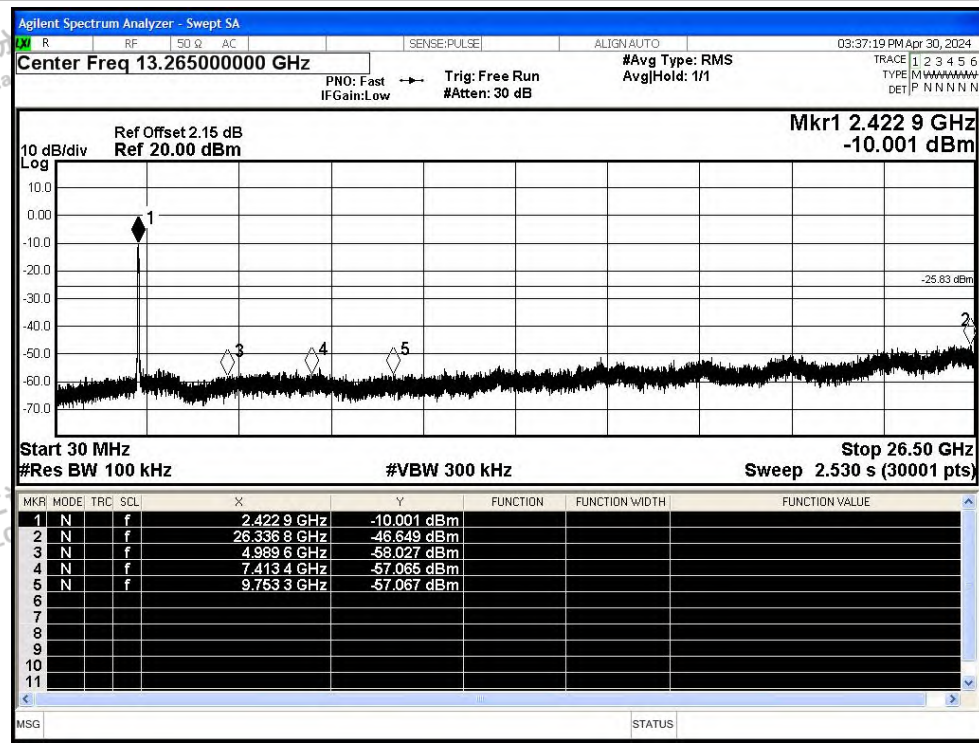
Scan code to check authenticity



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



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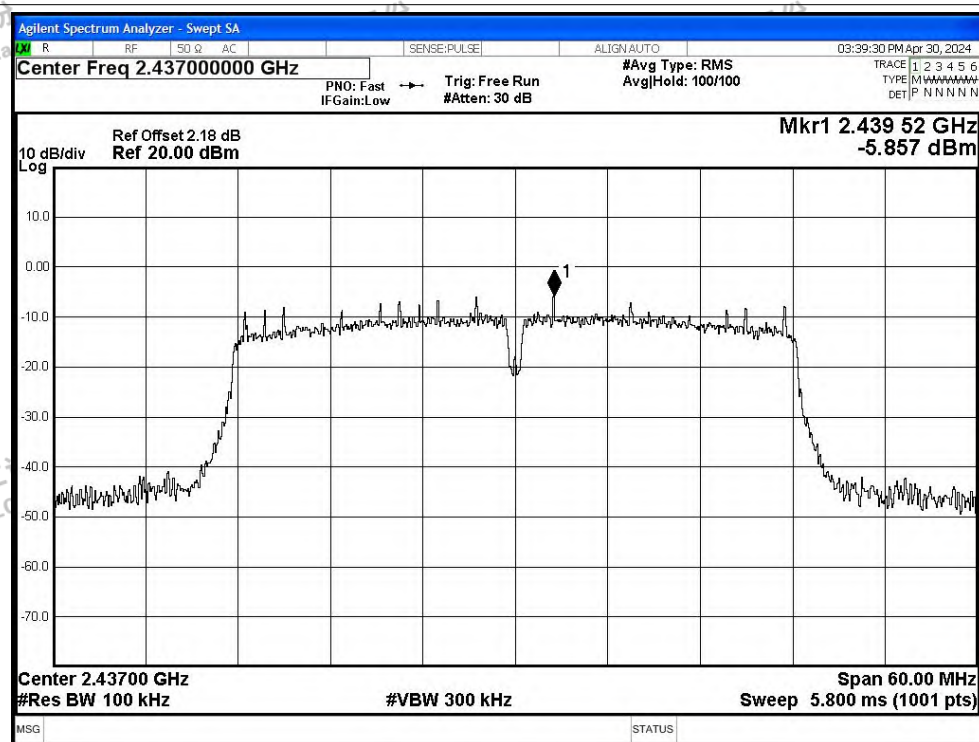
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

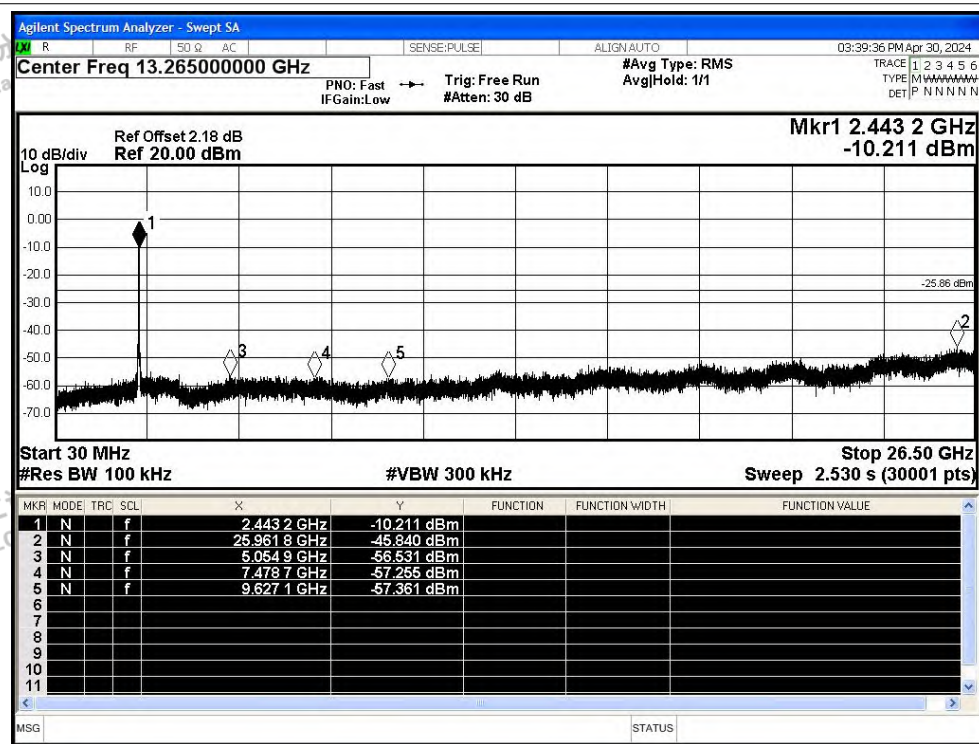
Scan code to check authenticity



Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



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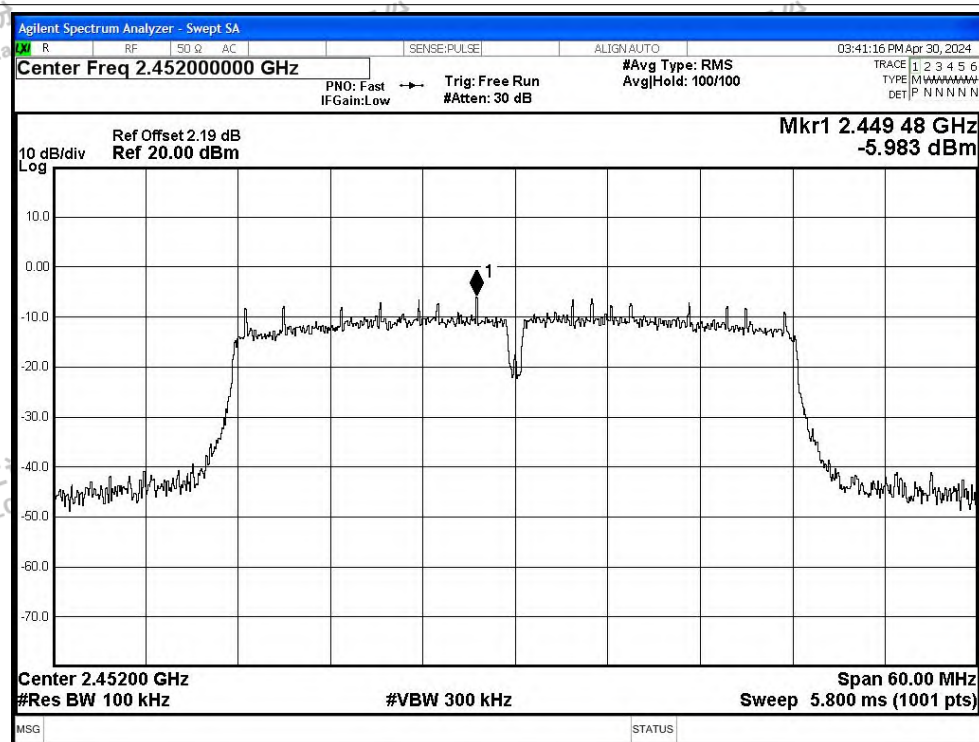
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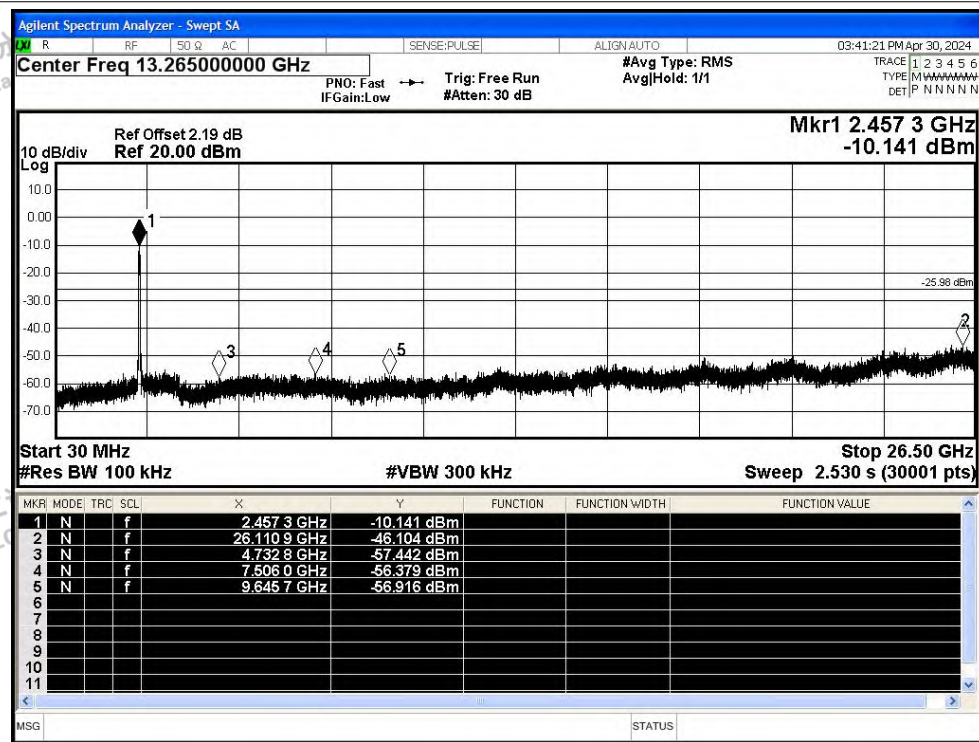
Scan code to check authenticity



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.58	0	0.15
NVNT	b	2437	Ant1	99.58	0	0.15
NVNT	b	2462	Ant1	99.61	0	0.15
NVNT	g	2412	Ant1	97.95	0.09	0.62
NVNT	g	2437	Ant1	98.07	0	0.61
NVNT	g	2462	Ant1	98.07	0	0.61
NVNT	n20	2412	Ant1	97.81	0.1	0.66
NVNT	n20	2437	Ant1	97.81	0.1	0.66
NVNT	n20	2462	Ant1	97.94	0.09	0.66
NVNT	n40	2422	Ant1	97.46	0.11	0.82
NVNT	n40	2437	Ant1	97.3	0.12	0.82
NVNT	n40	2452	Ant1	97.38	0.12	0.82

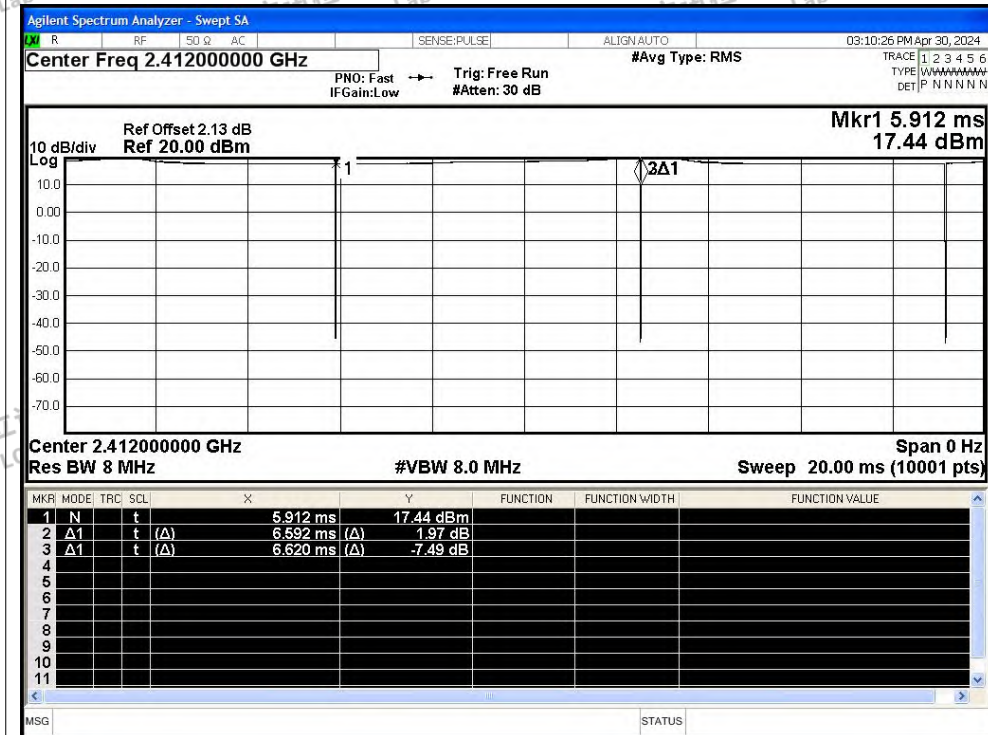


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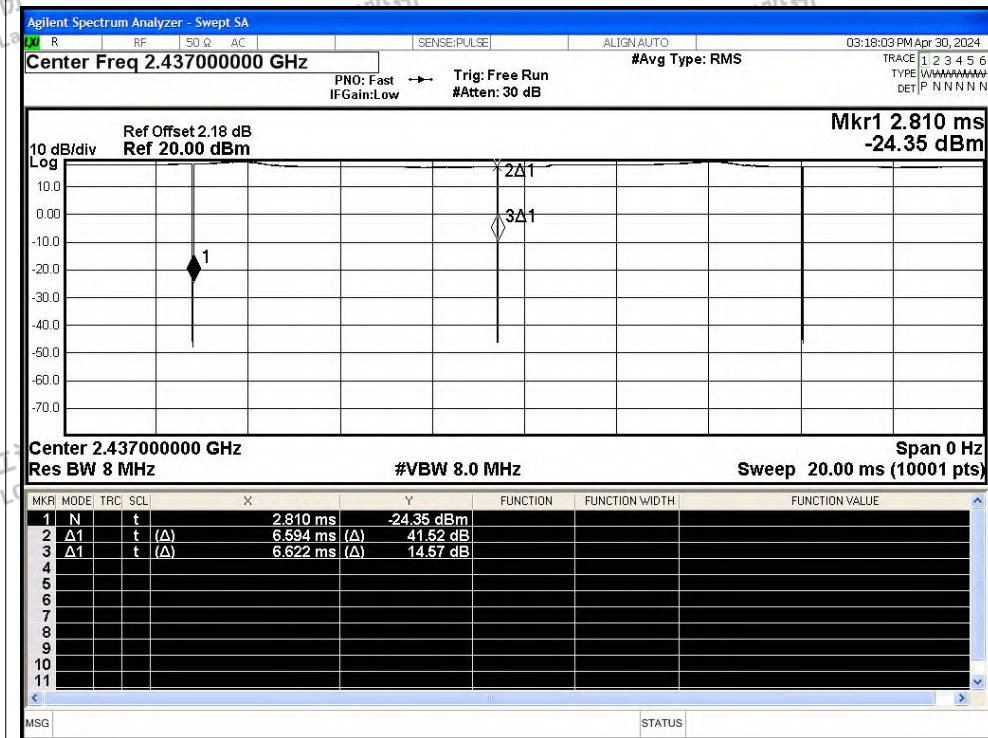


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



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