



Appendix A

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: AI BOX

Test Model: LMAB079-WIFI

Environmental Conditions

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





A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant	16.139	≥ 0.5	Pass
NVNT	b	2437	Ant	16.617	≥ 0.5	Pass
NVNT	b	2462	Ant	16.449	≥ 0.5	Pass
NVNT	g	2412	Ant	15.738	≥ 0.5	Pass
NVNT	g	2437	Ant	16.314	≥ 0.5	Pass
NVNT	g	2462	Ant	16.065	≥ 0.5	Pass
NVNT	n20	2412	Ant	16.155	≥ 0.5	Pass
NVNT	n20	2437	Ant	16.856	≥ 0.5	Pass
NVNT	n20	2462	Ant	16.992	≥ 0.5	Pass
NVNT	n40	2422	Ant	35.536	≥ 0.5	Pass
NVNT	n40	2437	Ant	35.149	≥ 0.5	Pass
NVNT	n40	2452	Ant	35.519	≥ 0.5	Pass



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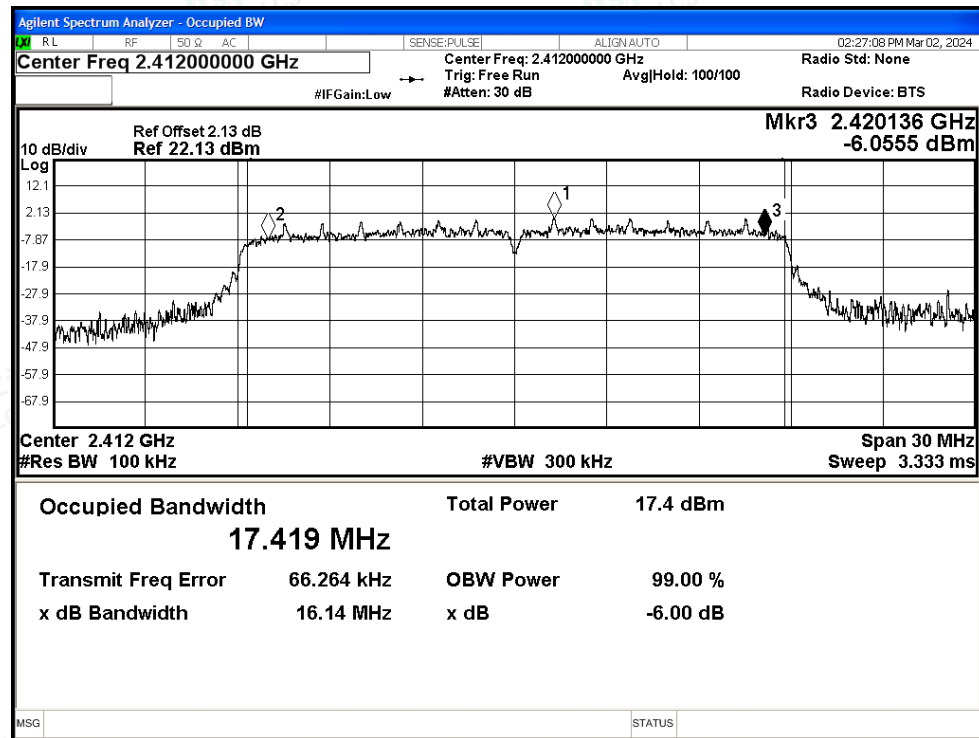
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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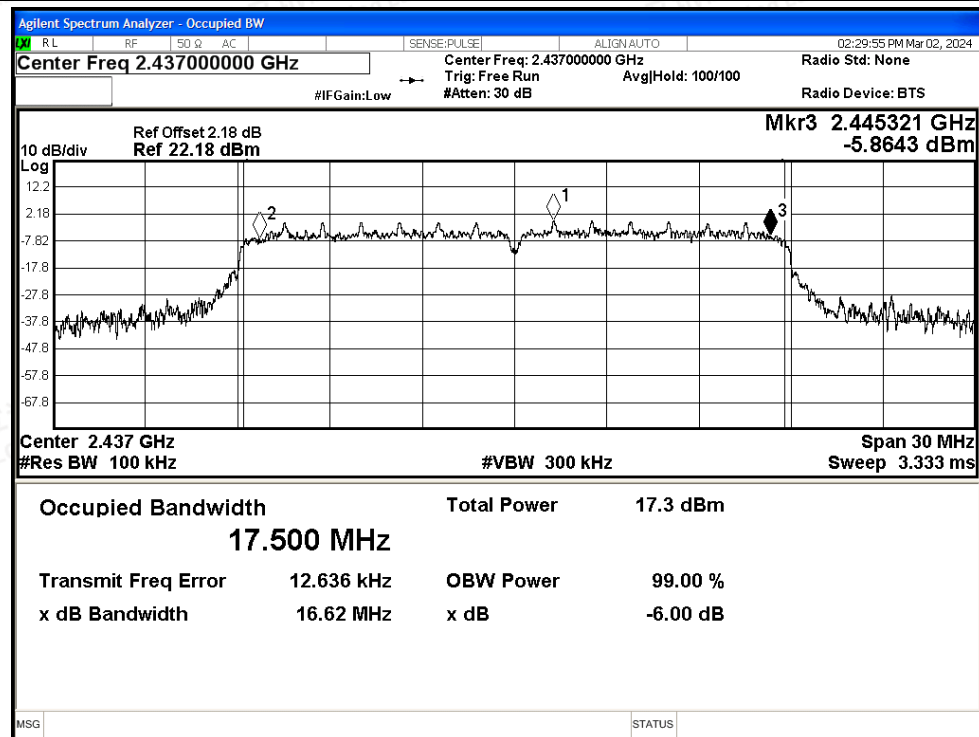


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant



-6dB Bandwidth NVNT b 2437MHz Ant

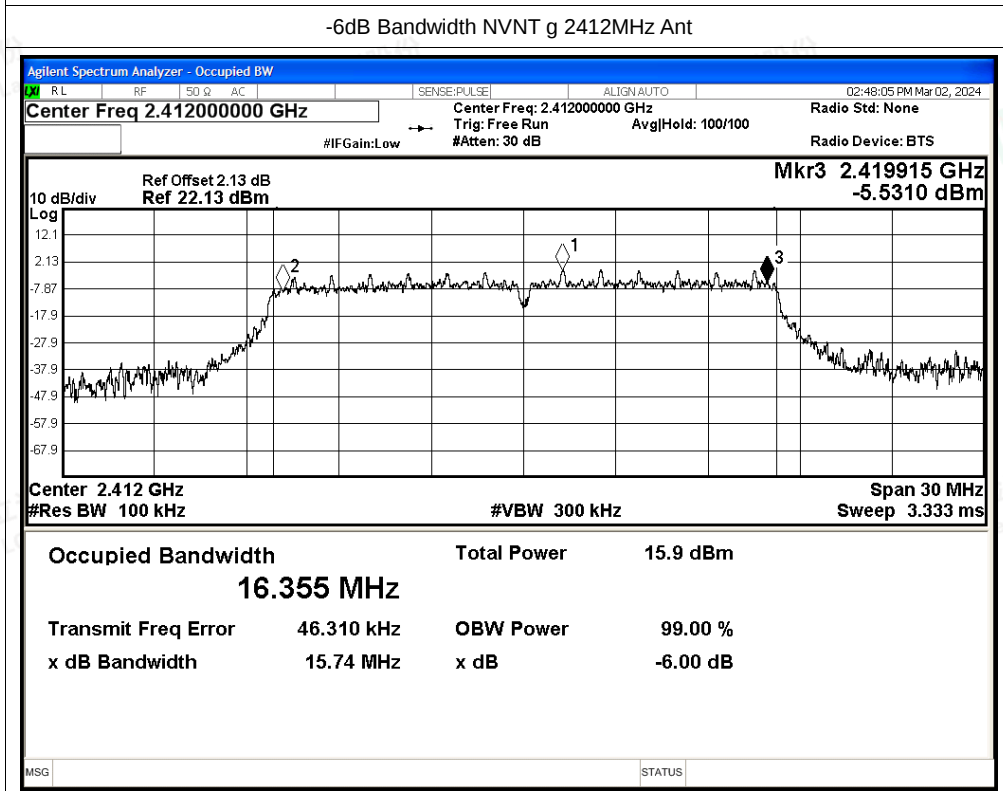
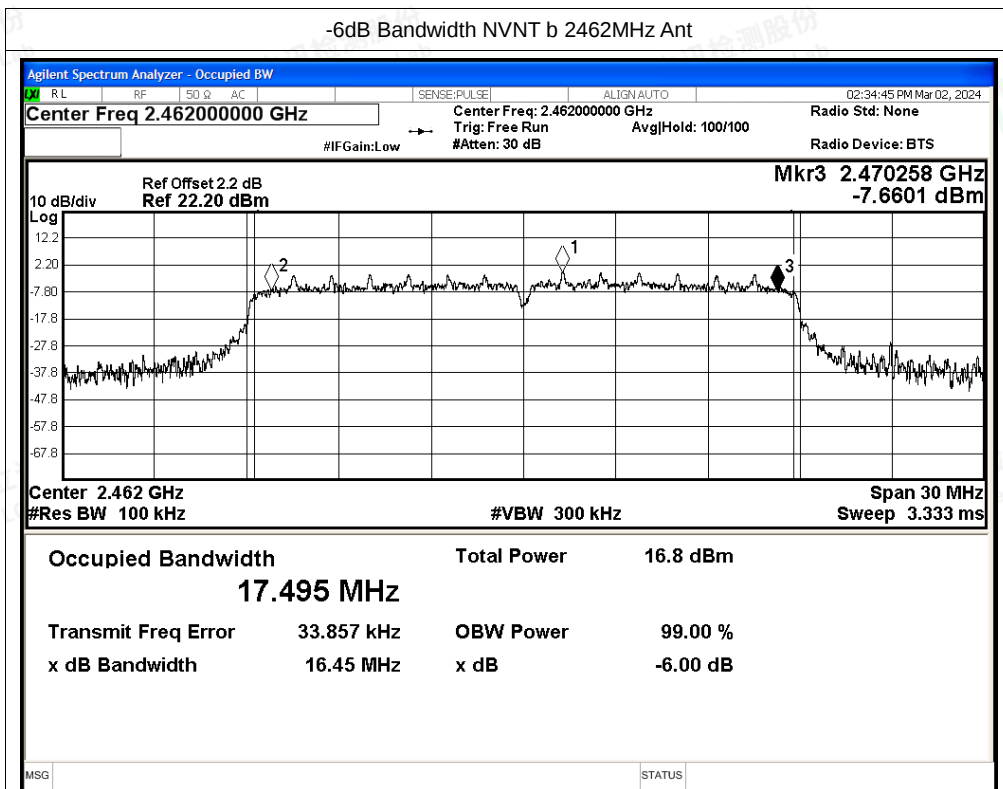


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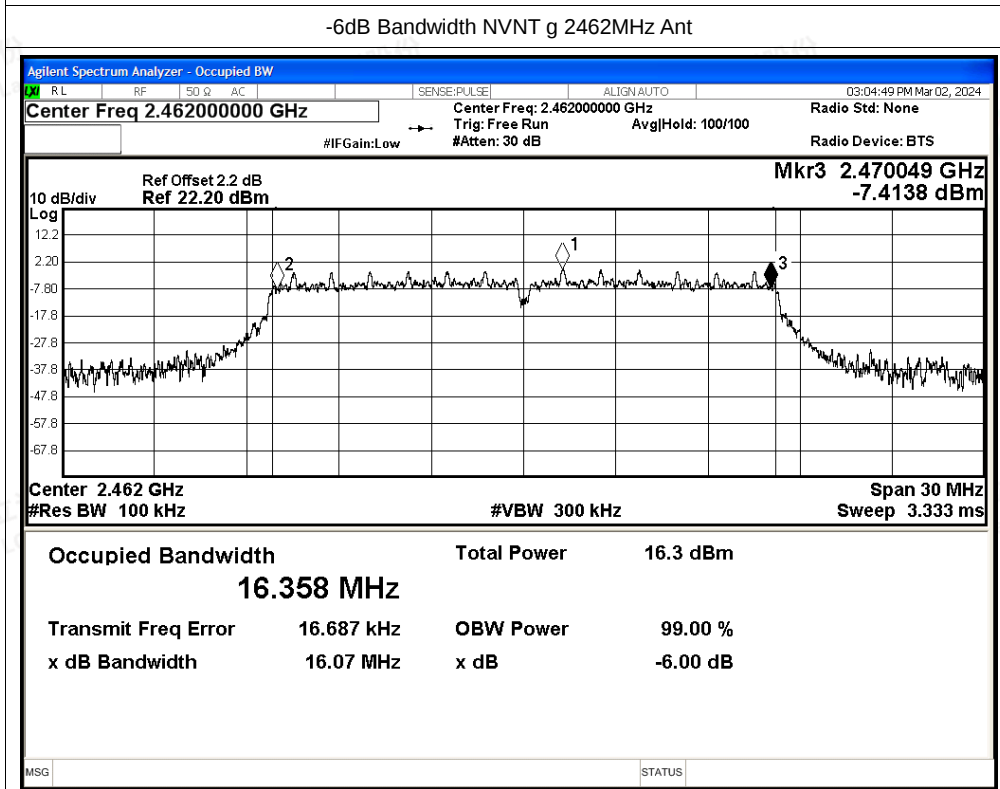
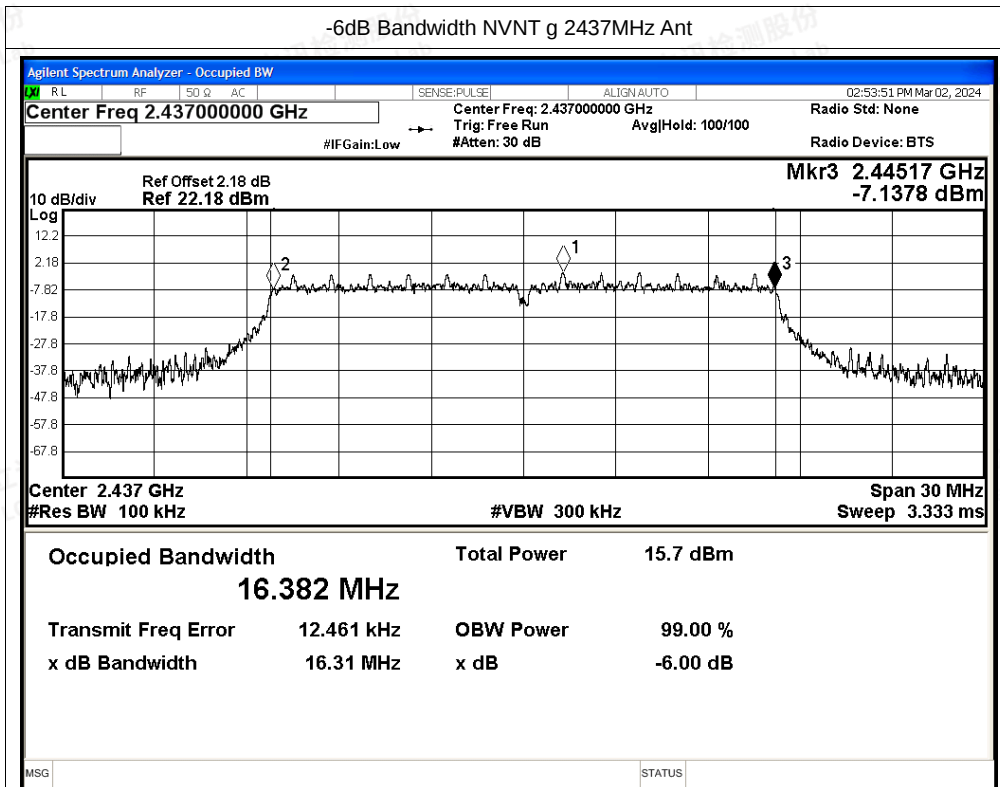


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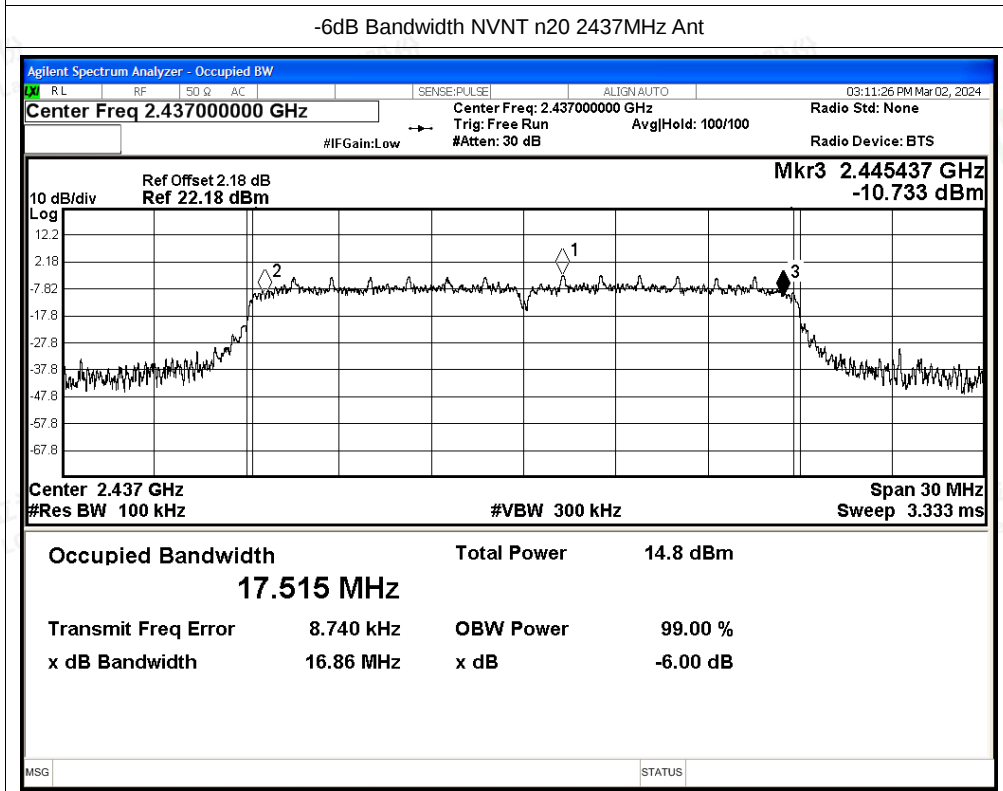
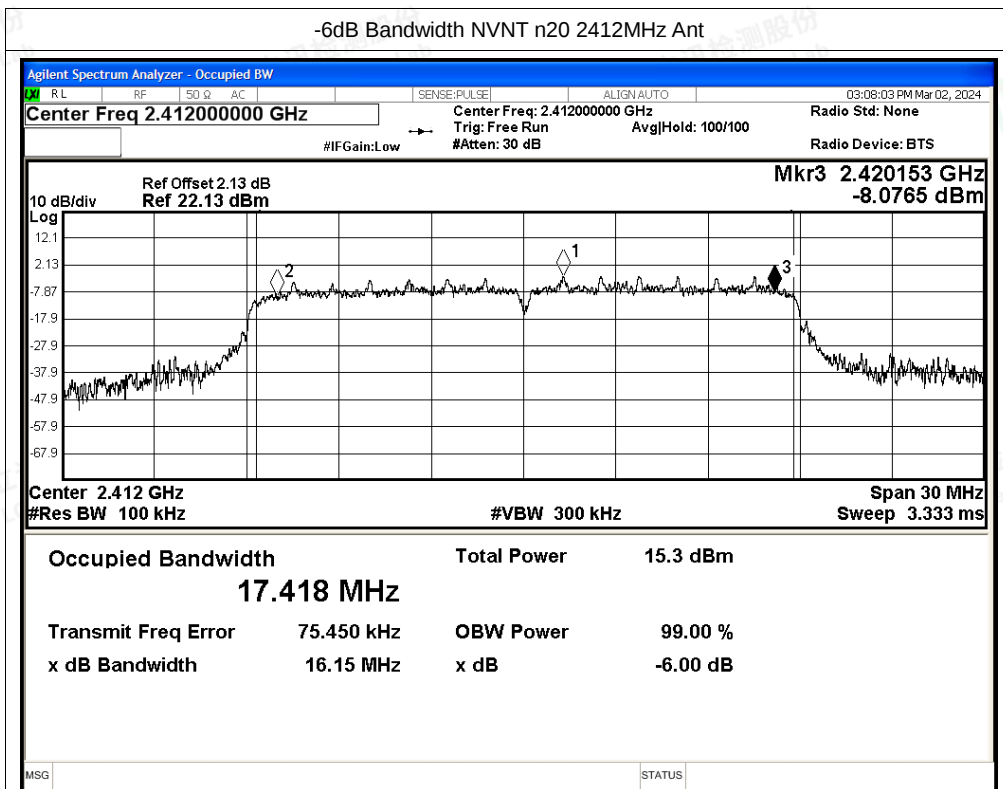


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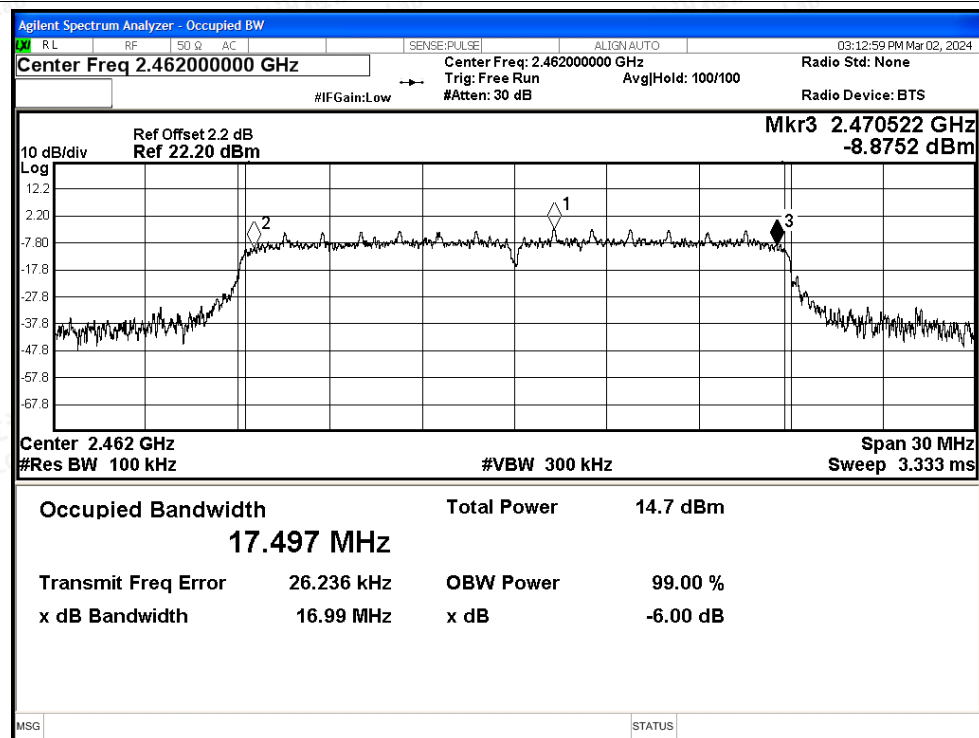
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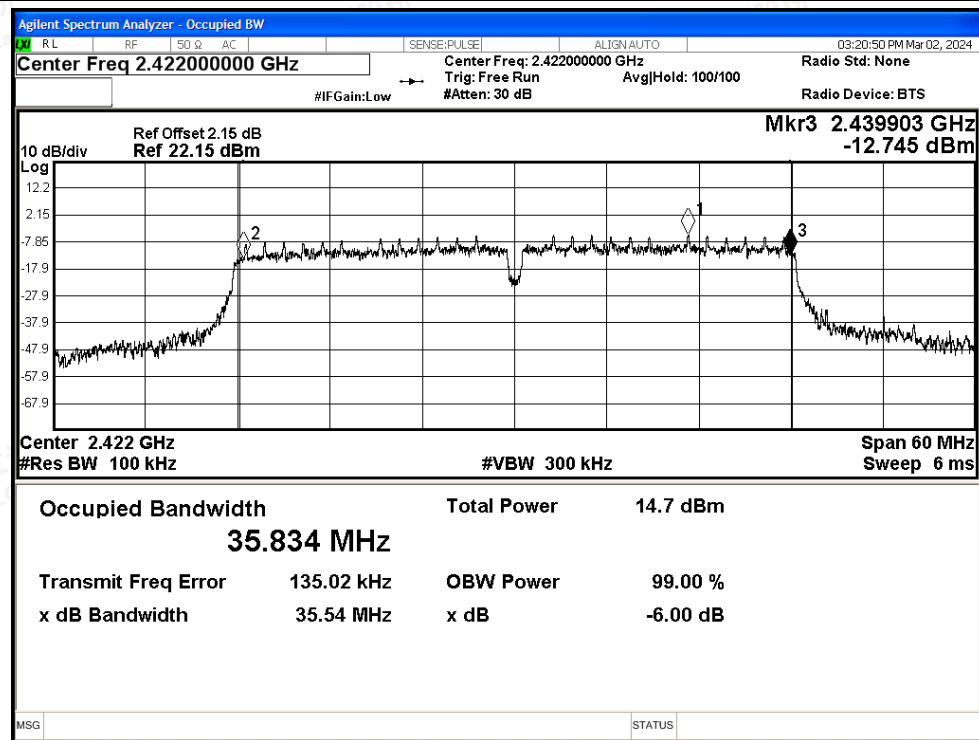
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-6dB Bandwidth NVNT n20 2462MHz Ant



-6dB Bandwidth NVNT n40 2422MHz Ant



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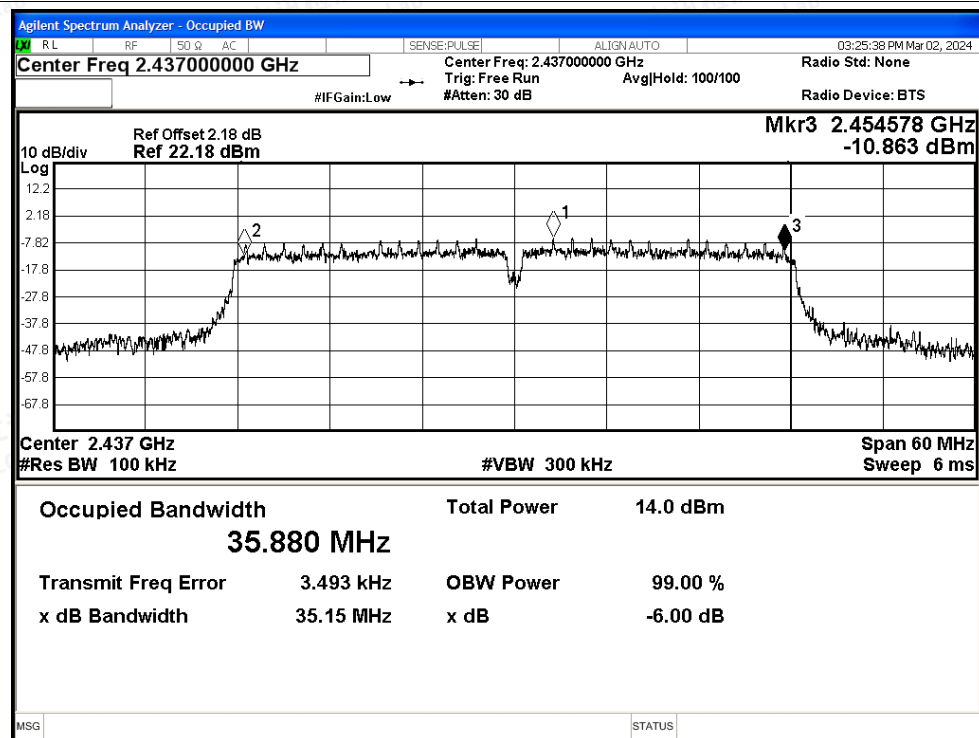
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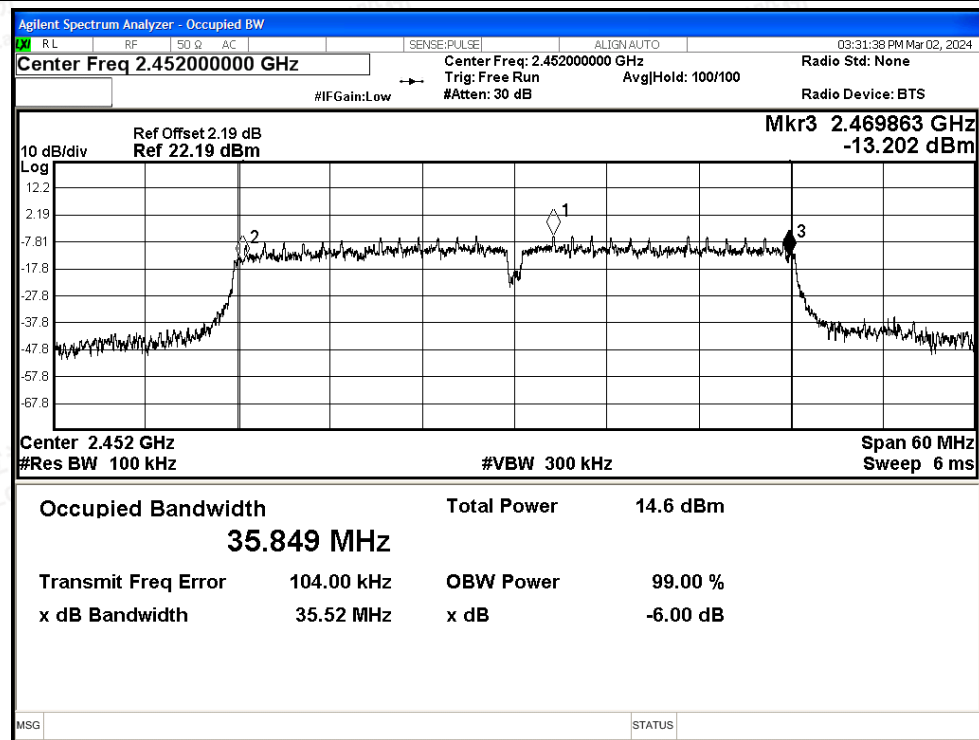
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-6dB Bandwidth NVNT n40 2437MHz Ant



-6dB Bandwidth NVNT n40 2452MHz Ant



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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant	15.67	30	Pass
NVNT	b	2437	Ant	15.41	30	Pass
NVNT	b	2462	Ant	15.06	30	Pass
NVNT	g	2412	Ant	14.3	30	Pass
NVNT	g	2437	Ant	14.05	30	Pass
NVNT	g	2462	Ant	14.64	30	Pass
NVNT	n20	2412	Ant	13.48	30	Pass
NVNT	n20	2437	Ant	13.06	30	Pass
NVNT	n20	2462	Ant	12.9	30	Pass
NVNT	n40	2422	Ant	12.81	30	Pass
NVNT	n40	2437	Ant	12.08	30	Pass
NVNT	n40	2452	Ant	12.65	30	Pass



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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant	-14.79	8	Pass
NVNT	b	2437	Ant	-15.66	8	Pass
NVNT	b	2462	Ant	-16.48	8	Pass
NVNT	g	2412	Ant	-15.95	8	Pass
NVNT	g	2437	Ant	-16.79	8	Pass
NVNT	g	2462	Ant	-15.44	8	Pass
NVNT	n20	2412	Ant	-17.04	8	Pass
NVNT	n20	2437	Ant	-18.21	8	Pass
NVNT	n20	2462	Ant	-18.18	8	Pass
NVNT	n40	2422	Ant	-20.08	8	Pass
NVNT	n40	2437	Ant	-21.49	8	Pass
NVNT	n40	2452	Ant	-20.63	8	Pass



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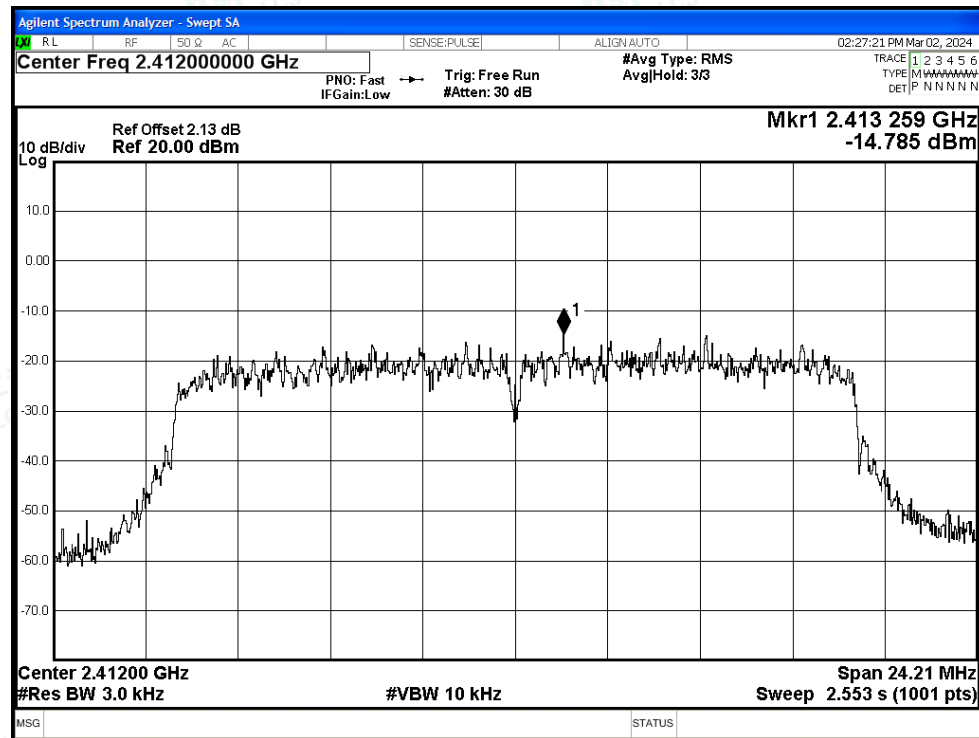
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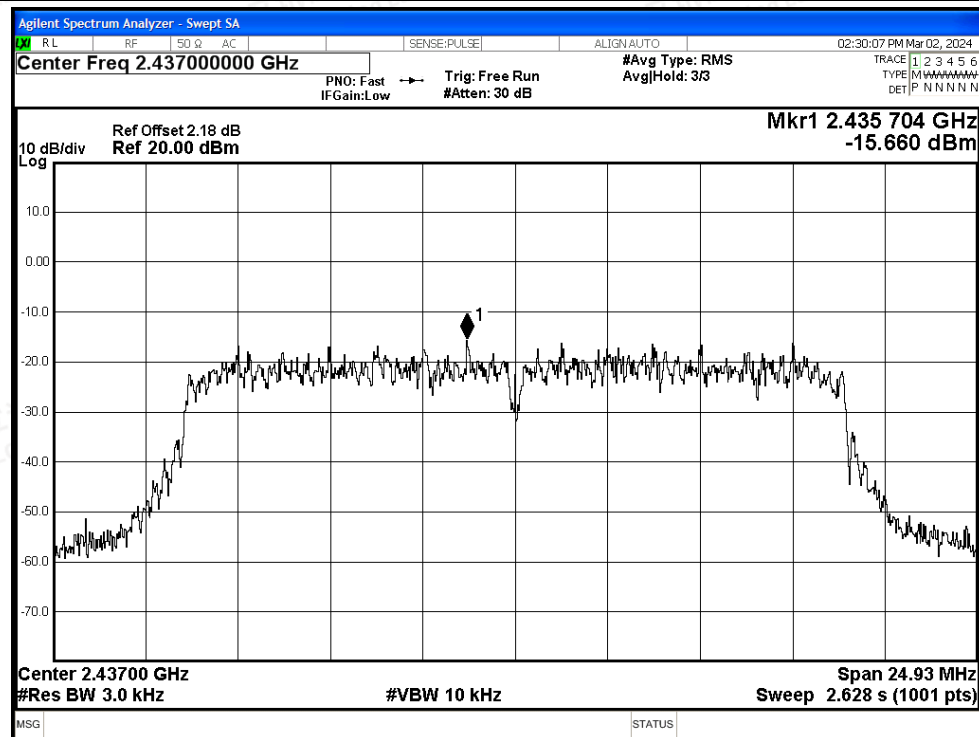


Test Graphs

PSD NVNT b 2412MHz Ant



PSD NVNT b 2437MHz Ant

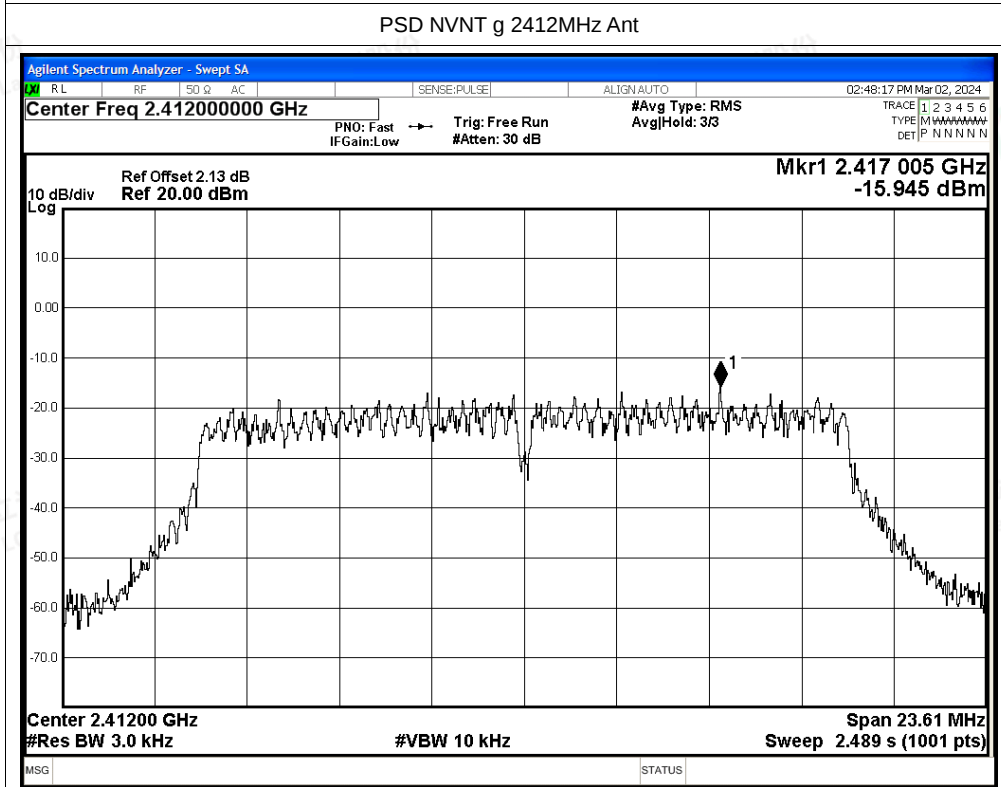
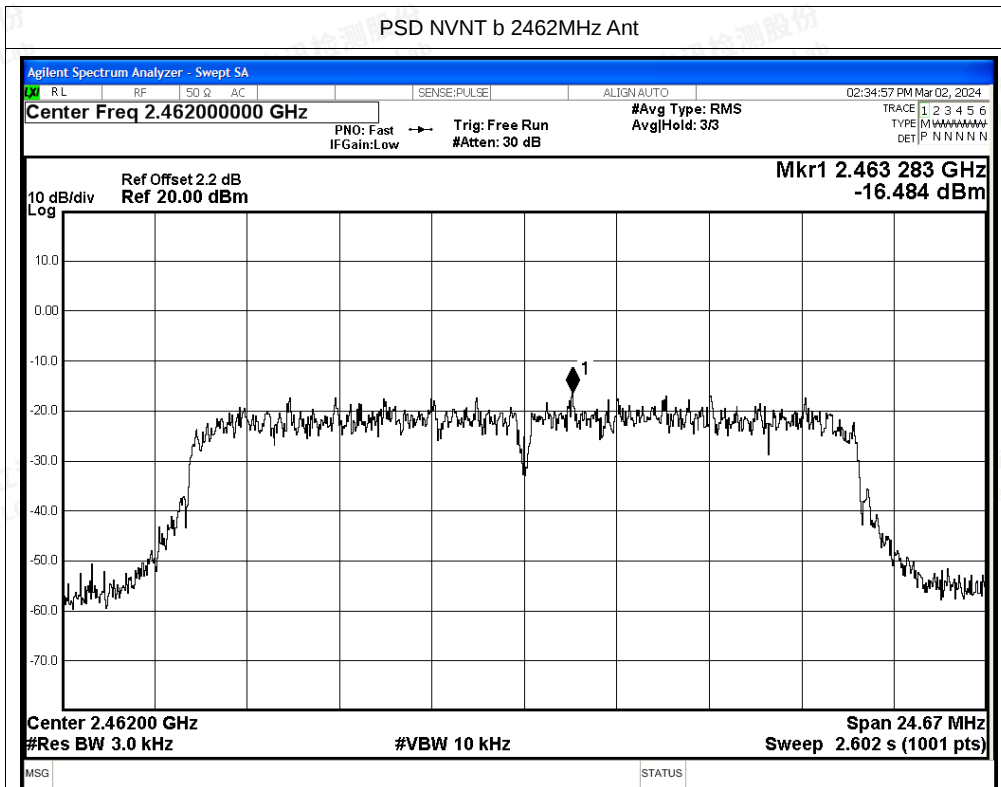


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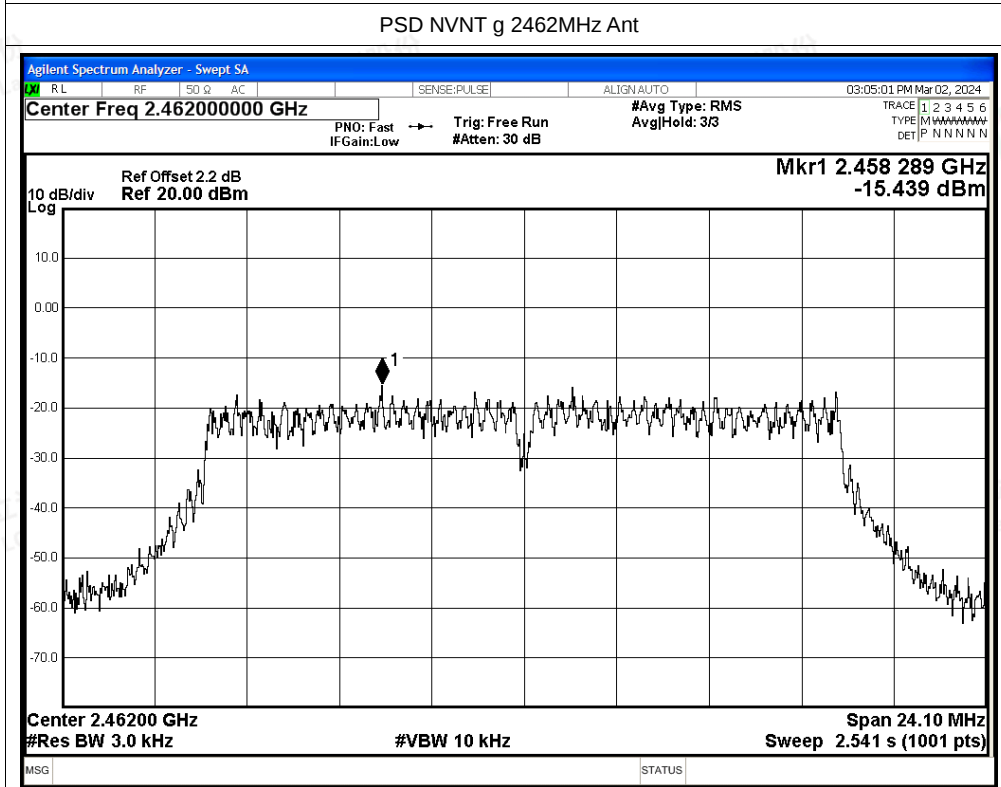
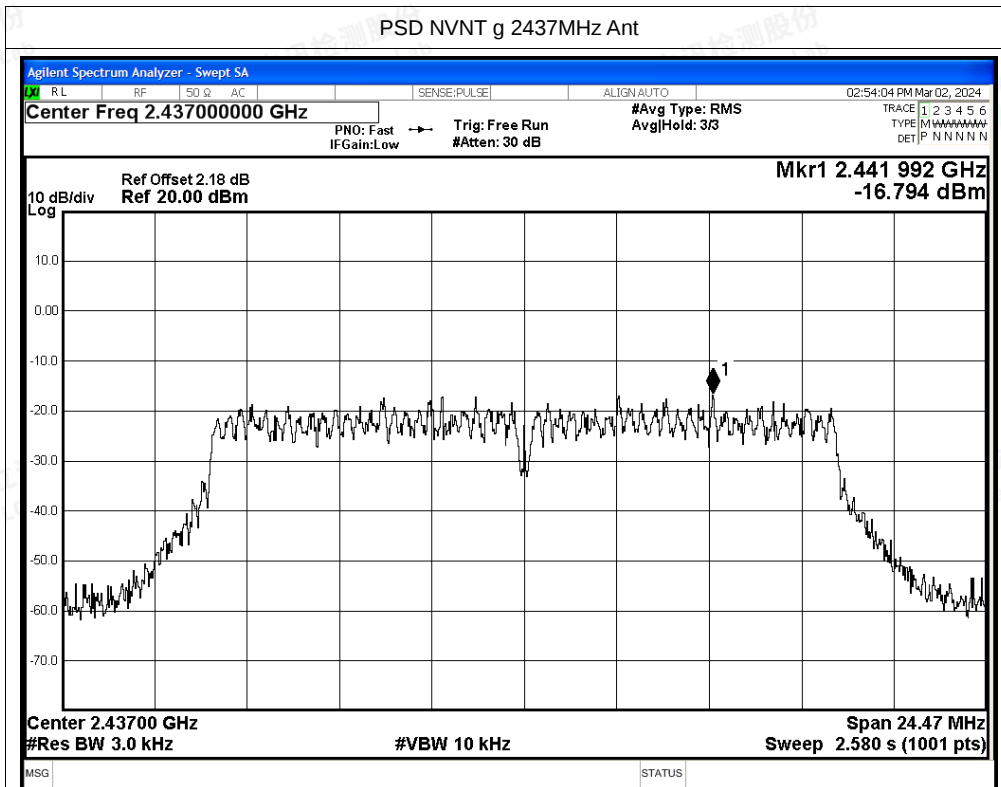


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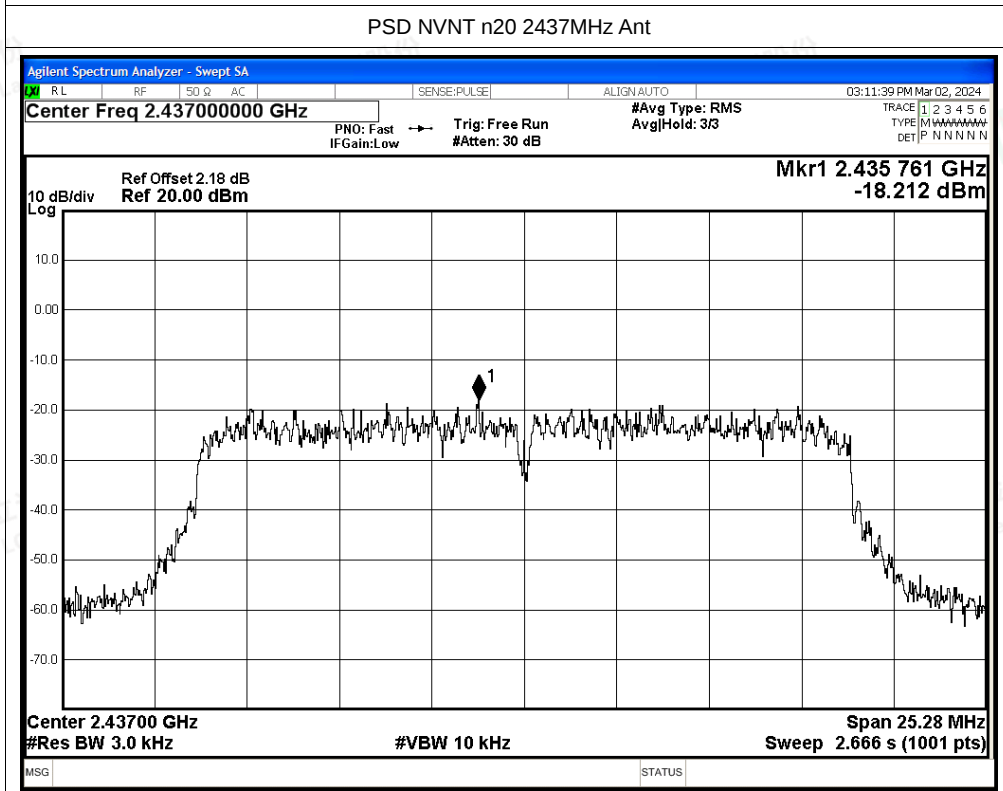
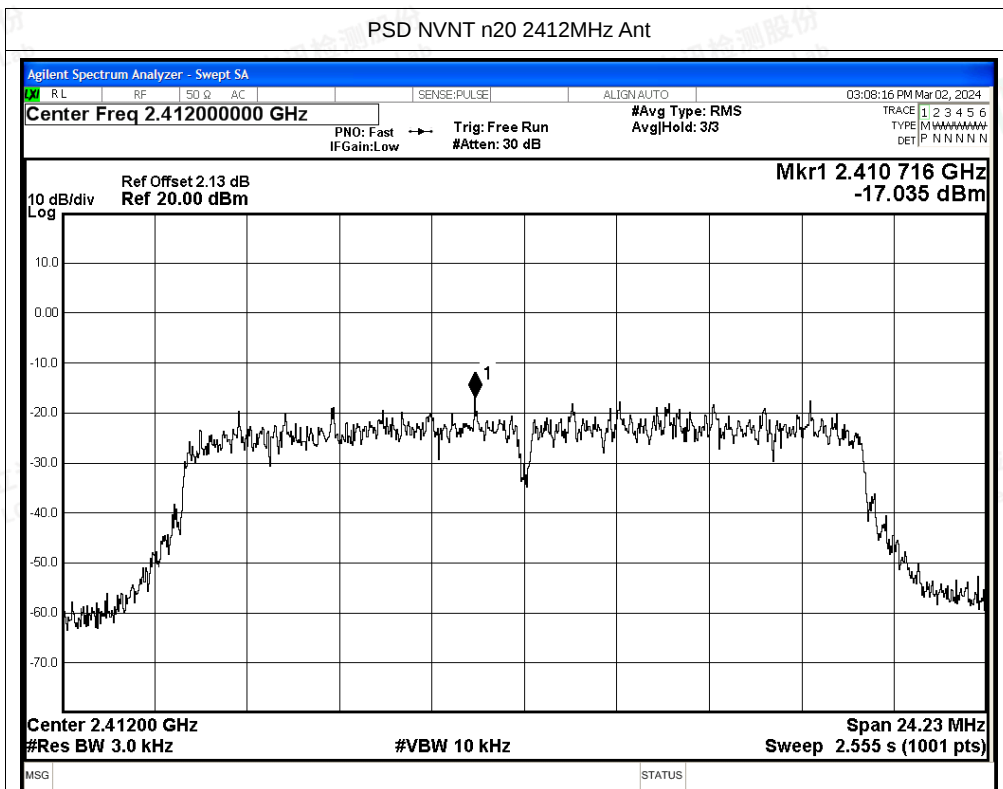


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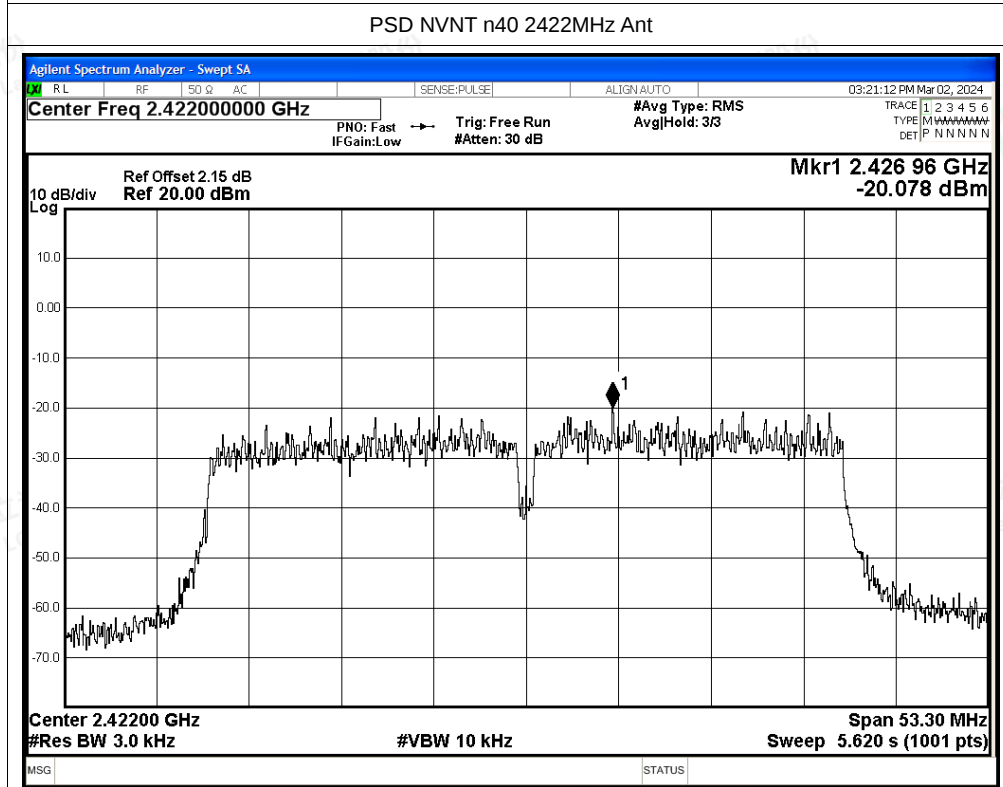
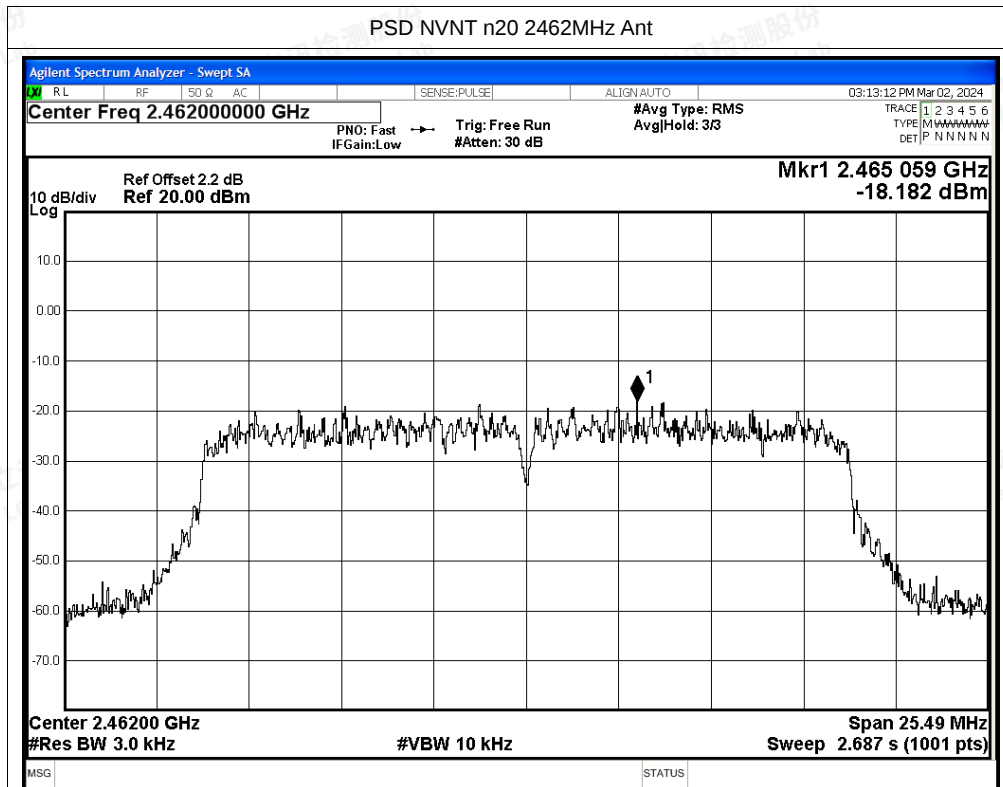


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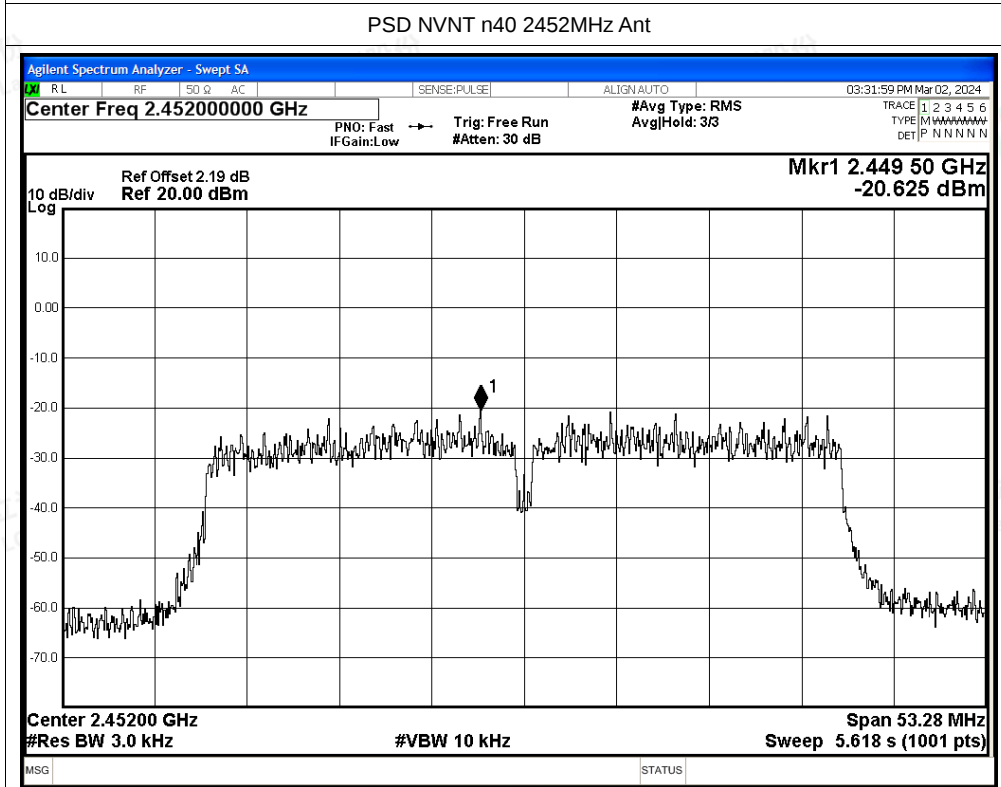
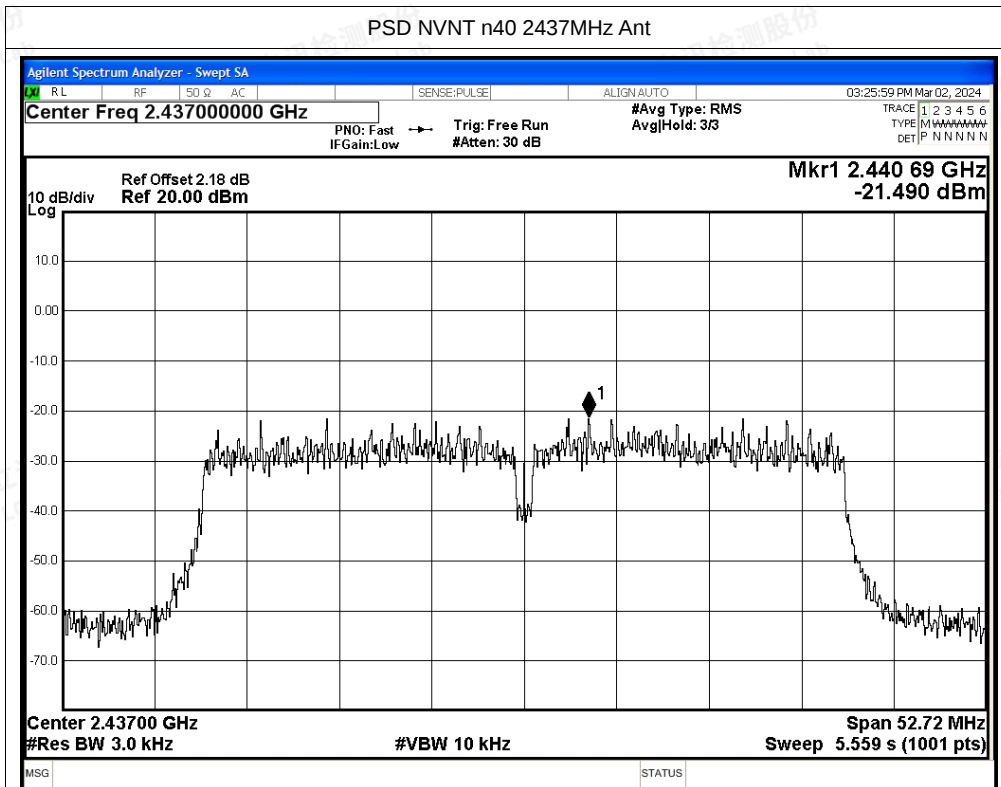


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-35.5	-20	Pass
NVNT	b	2462	Ant	-42.07	-20	Pass
NVNT	g	2412	Ant	-35.17	-20	Pass
NVNT	g	2462	Ant	-38.28	-20	Pass
NVNT	n20	2412	Ant	-33.79	-20	Pass
NVNT	n20	2462	Ant	-43.52	-20	Pass
NVNT	n40	2422	Ant	-36.8	-20	Pass
NVNT	n40	2452	Ant	-32.96	-20	Pass



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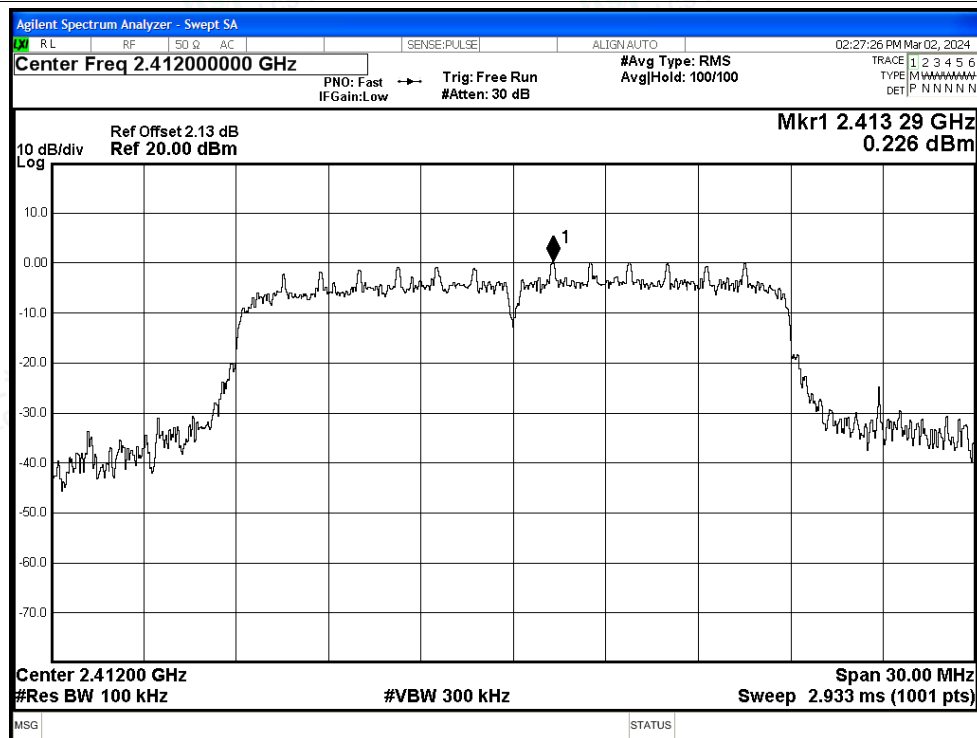
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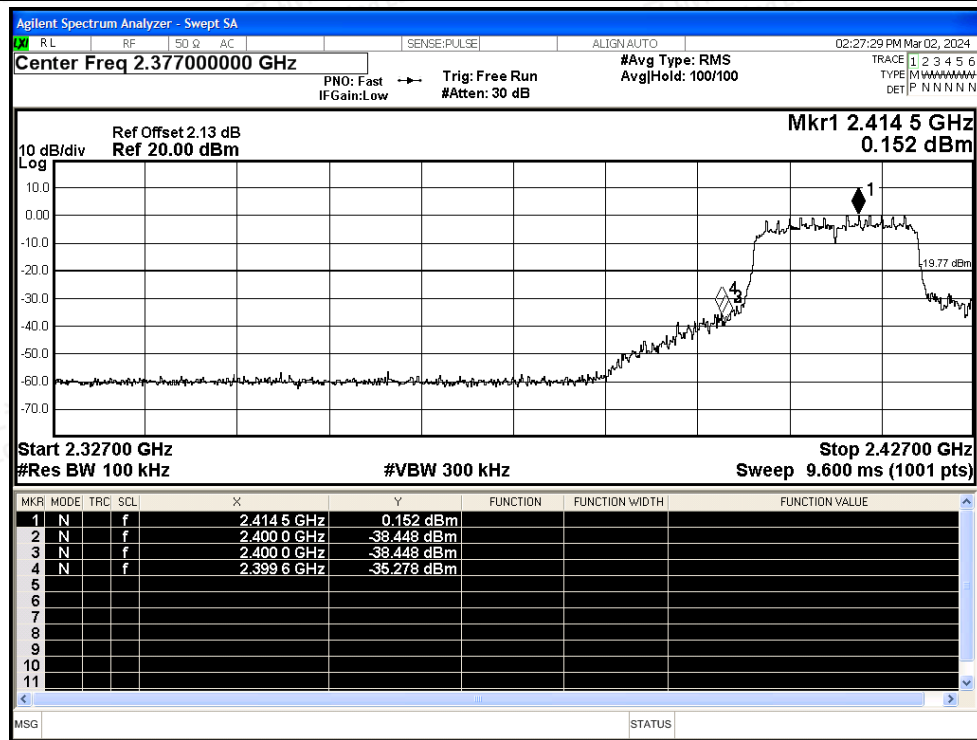


Test Graphs

Band Edge NVNT b 2412MHz Ant Ref



Band Edge NVNT b 2412MHz Ant Emission



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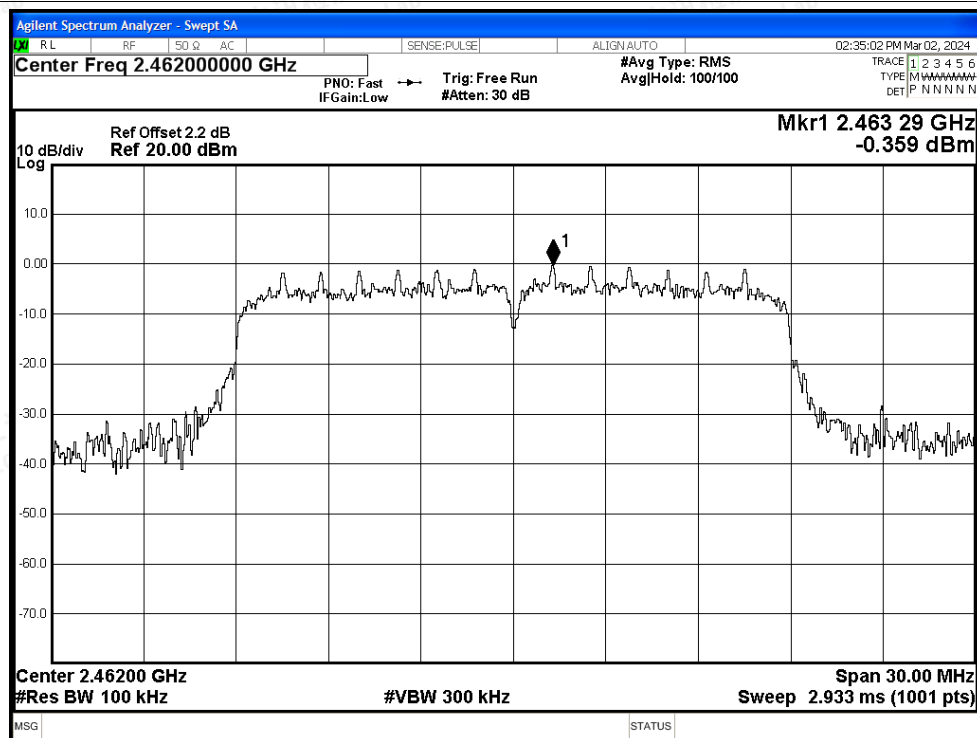
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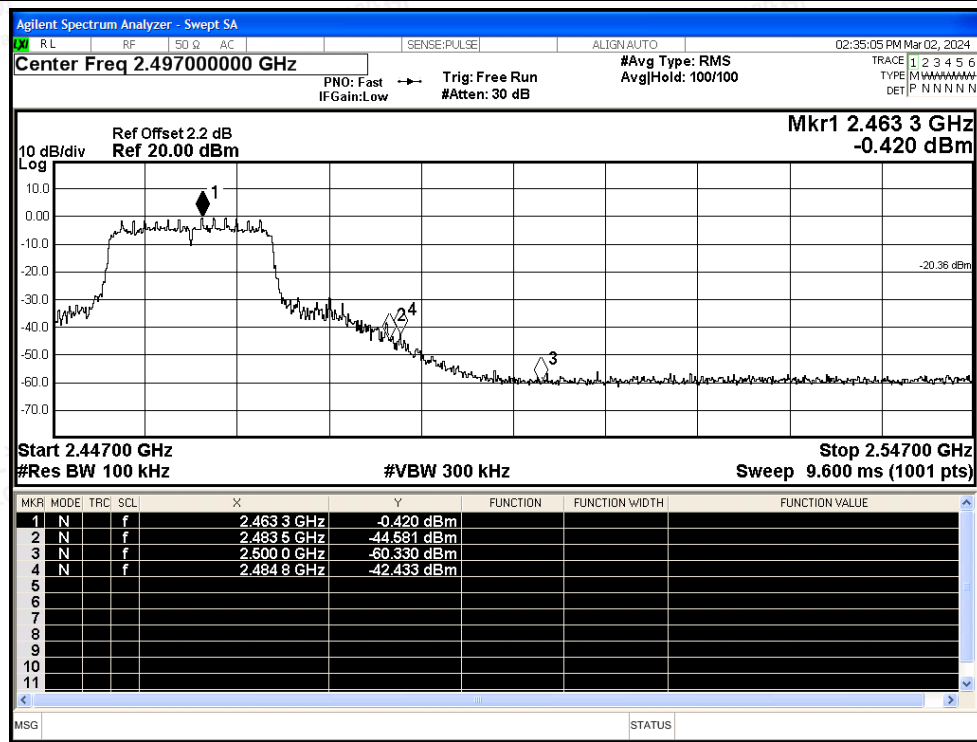
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Band Edge NVNT b 2462MHz Ant Ref



Band Edge NVNT b 2462MHz Ant Emission



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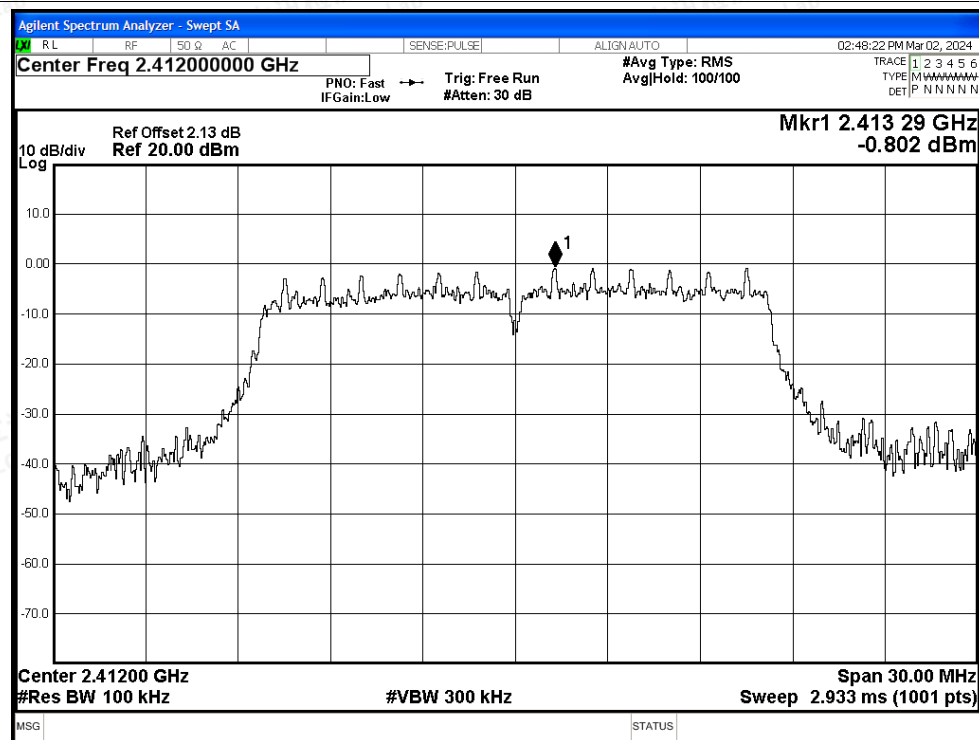
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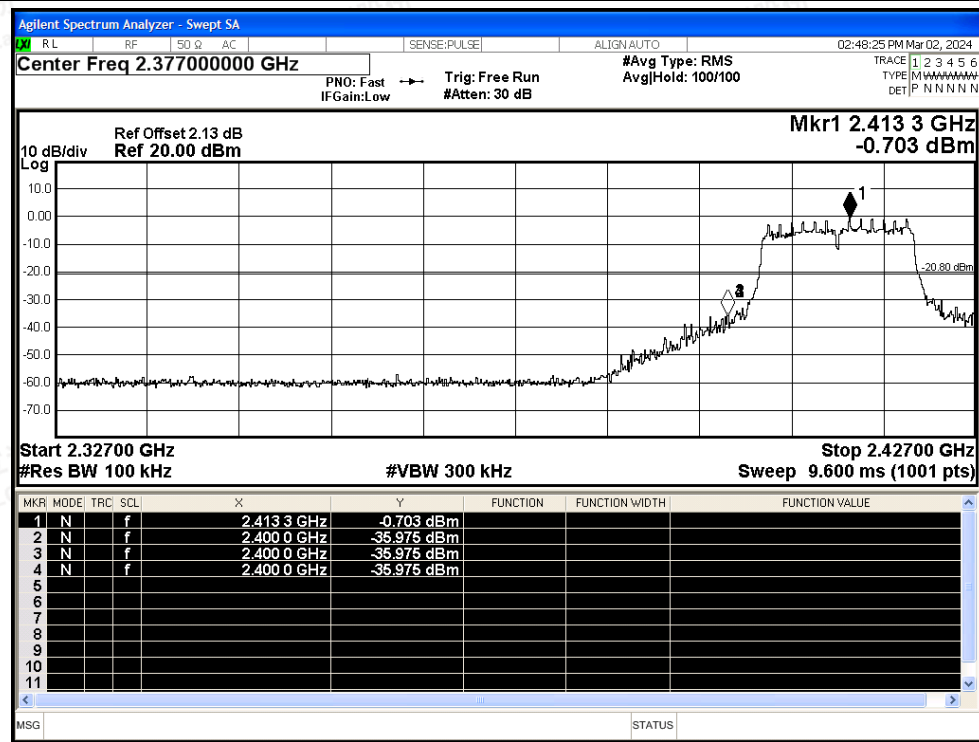
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Band Edge NVNT g 2412MHz Ant Ref



Band Edge NVNT g 2412MHz Ant Emission

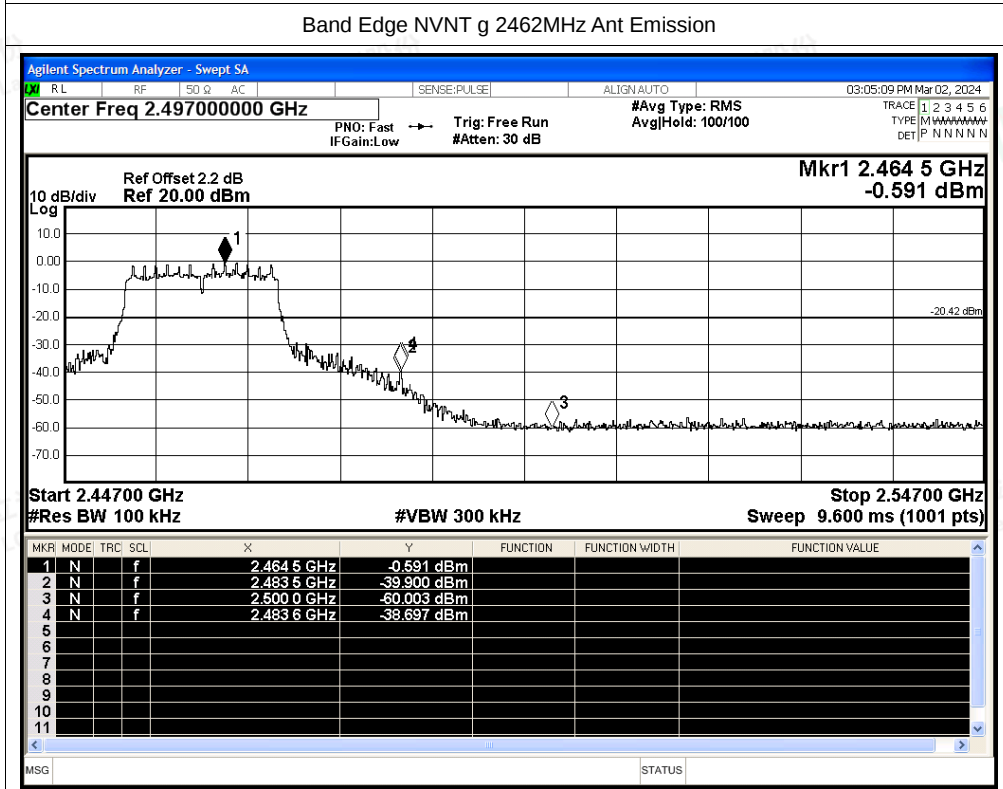
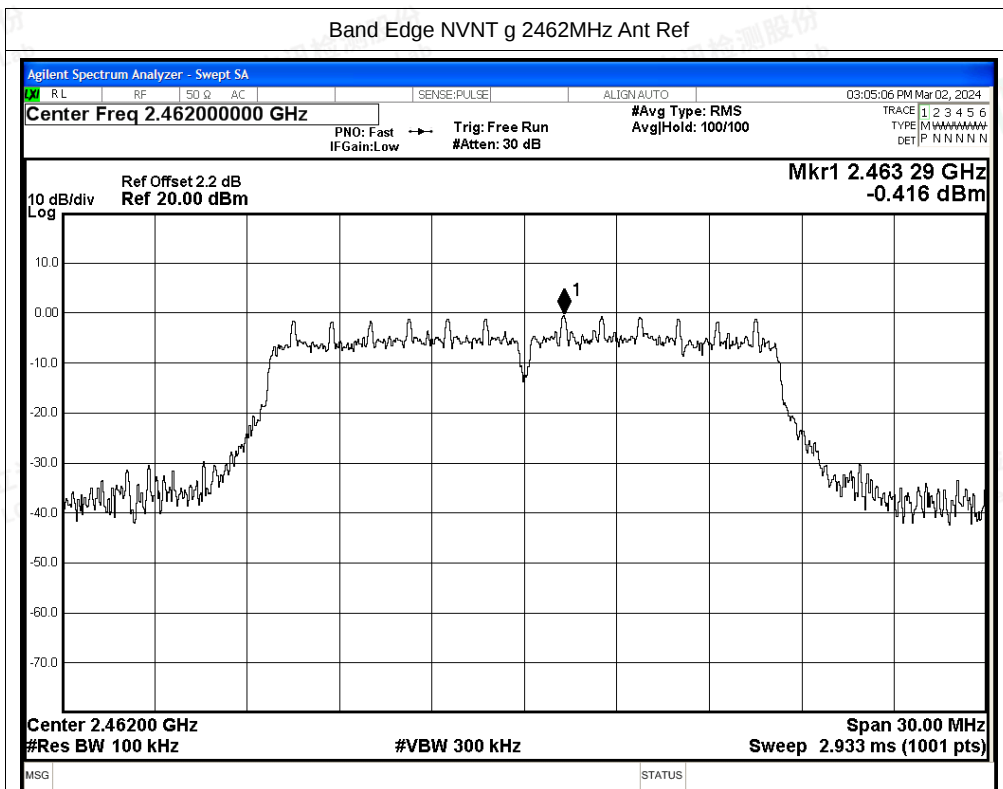


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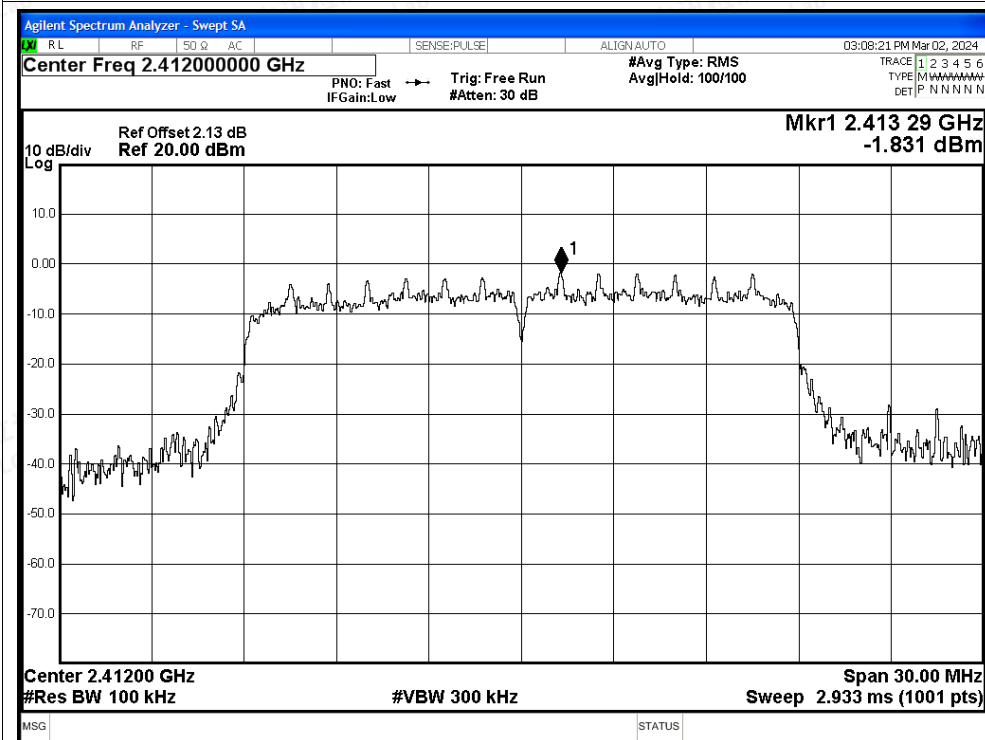
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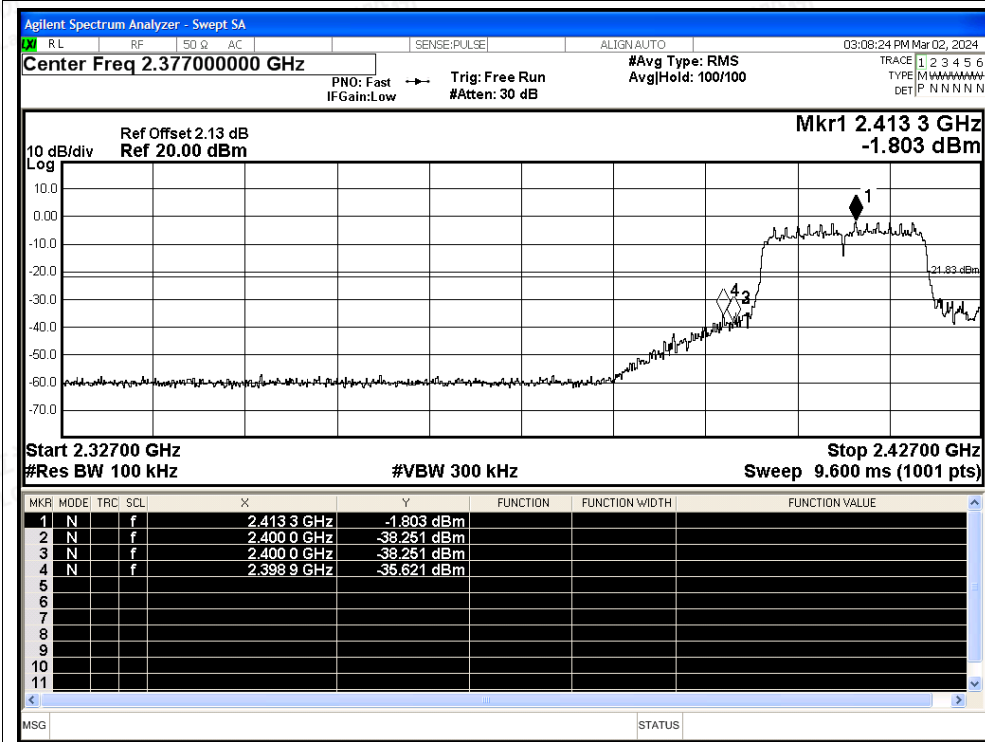
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Band Edge NVNT n20 2412MHz Ant Ref



Band Edge NVNT n20 2412MHz Ant Emission



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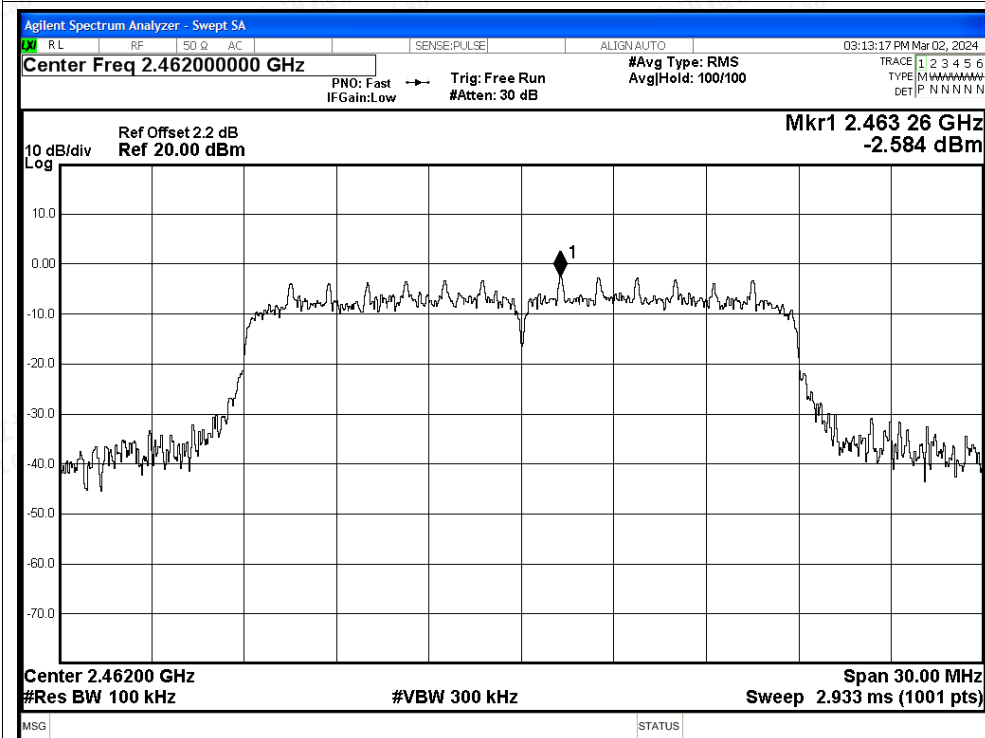
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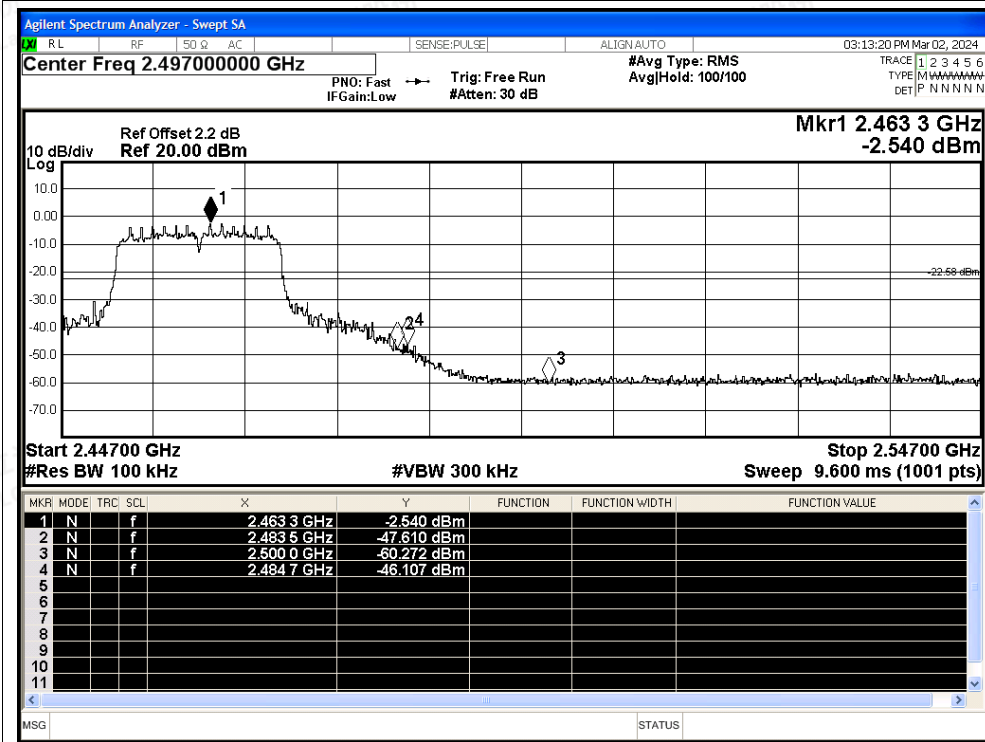
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Band Edge NVNT n20 2462MHz Ant Ref



Band Edge NVNT n20 2462MHz Ant Emission



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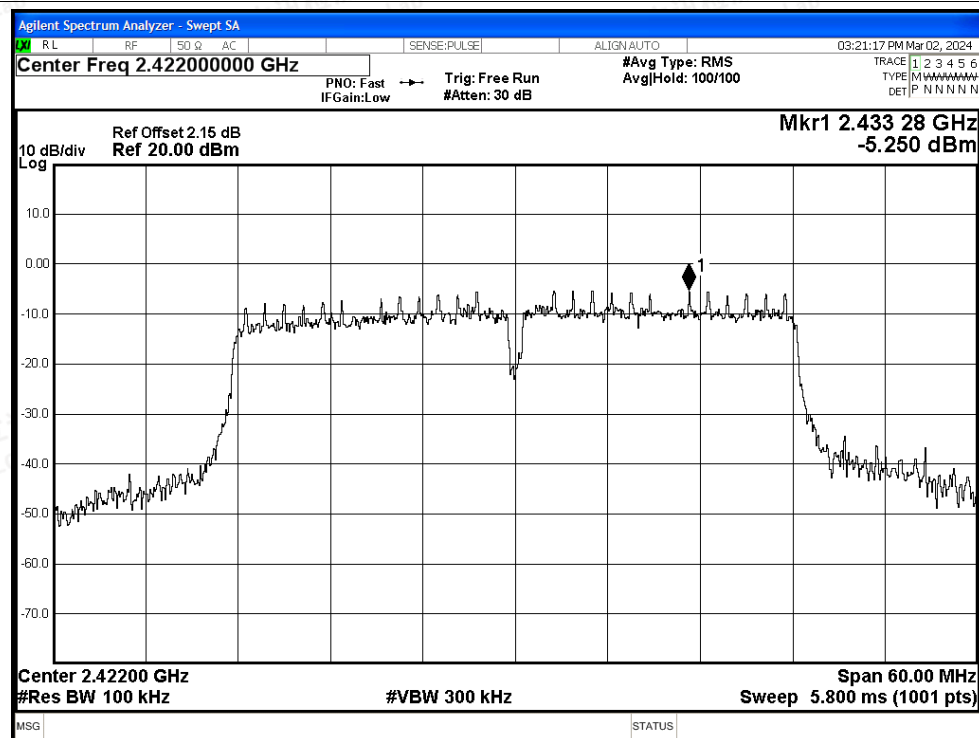
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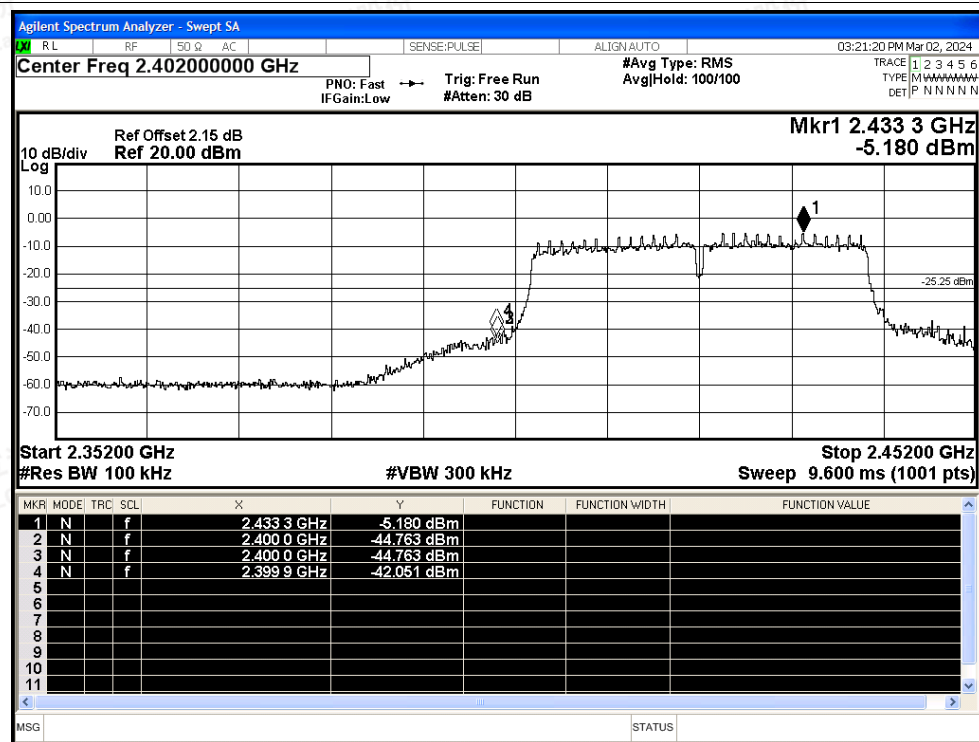
Scan code to check authenticity



Band Edge NVNT n40 2422MHz Ant Ref



Band Edge NVNT n40 2422MHz Ant Emission



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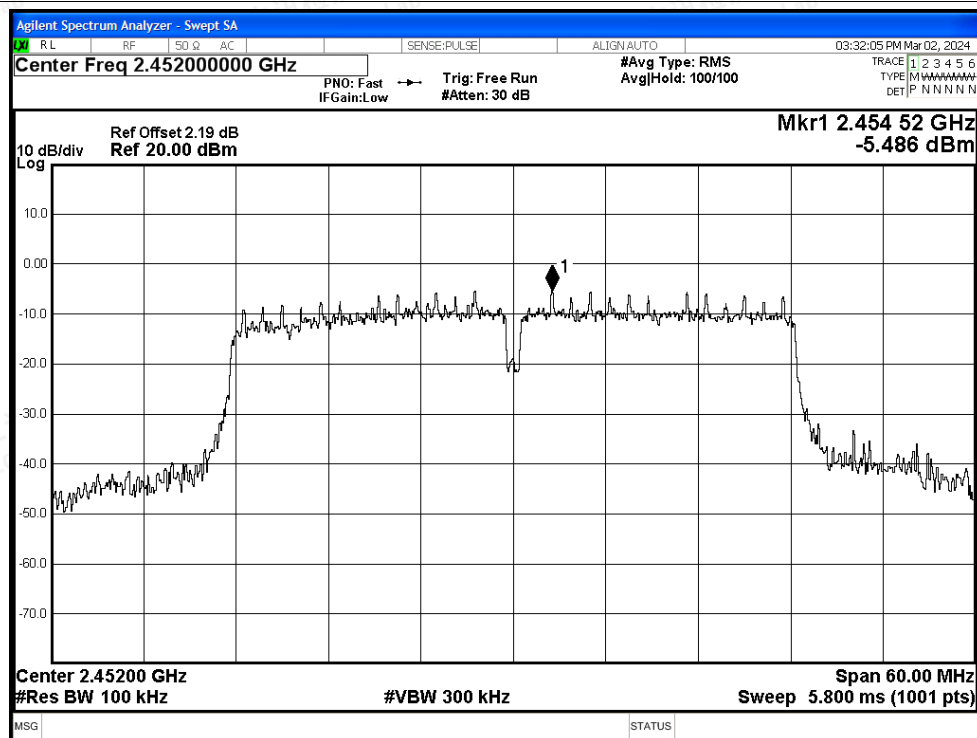
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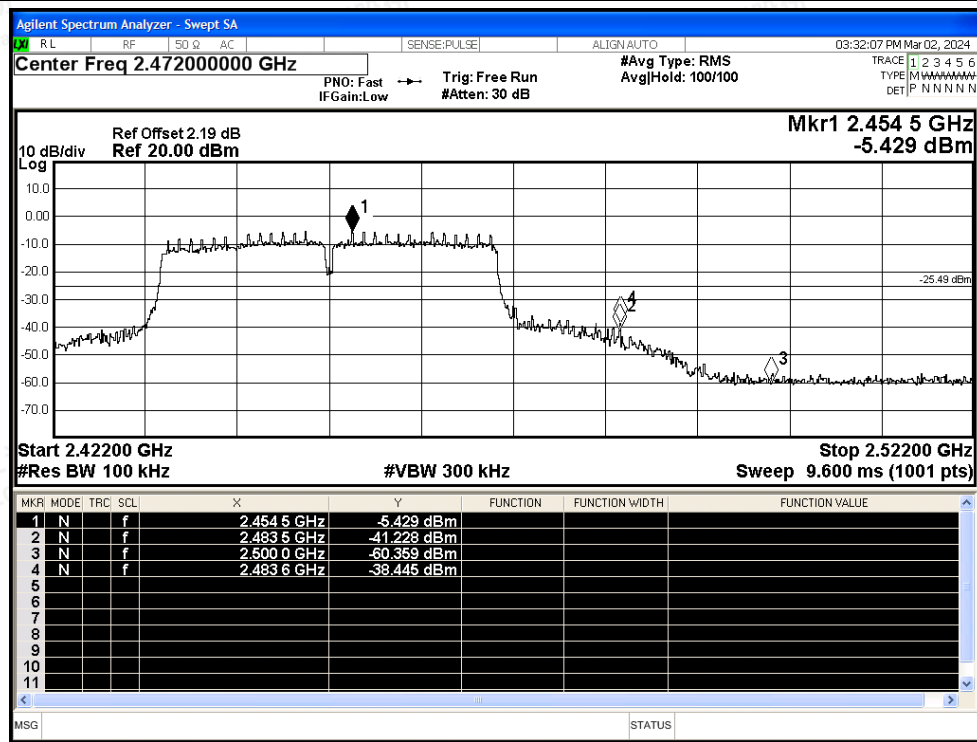
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Band Edge NVNT n40 2452MHz Ant Ref



Band Edge NVNT n40 2452MHz Ant Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-46.43	-20	Pass
NVNT	b	2437	Ant	-46.79	-20	Pass
NVNT	b	2462	Ant	-46.21	-20	Pass
NVNT	g	2412	Ant	-45.63	-20	Pass
NVNT	g	2437	Ant	-45.02	-20	Pass
NVNT	g	2462	Ant	-46.11	-20	Pass
NVNT	n20	2412	Ant	-45.32	-20	Pass
NVNT	n20	2437	Ant	-43.47	-20	Pass
NVNT	n20	2462	Ant	-43.33	-20	Pass
NVNT	n40	2422	Ant	-42.09	-20	Pass
NVNT	n40	2437	Ant	-39.38	-20	Pass
NVNT	n40	2452	Ant	-40.72	-20	Pass



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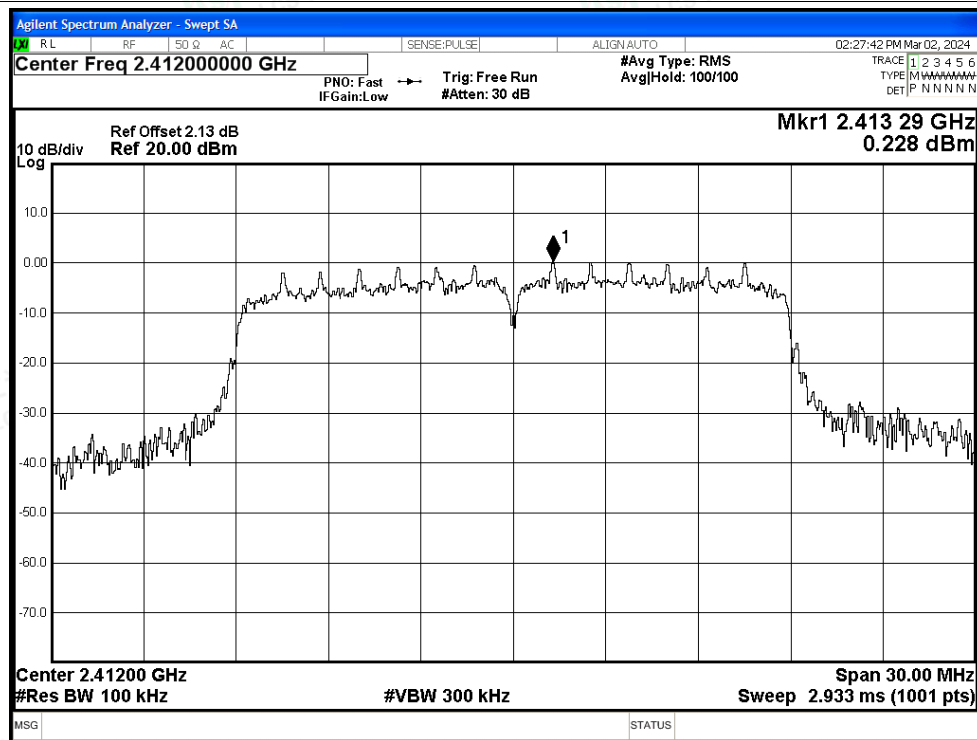
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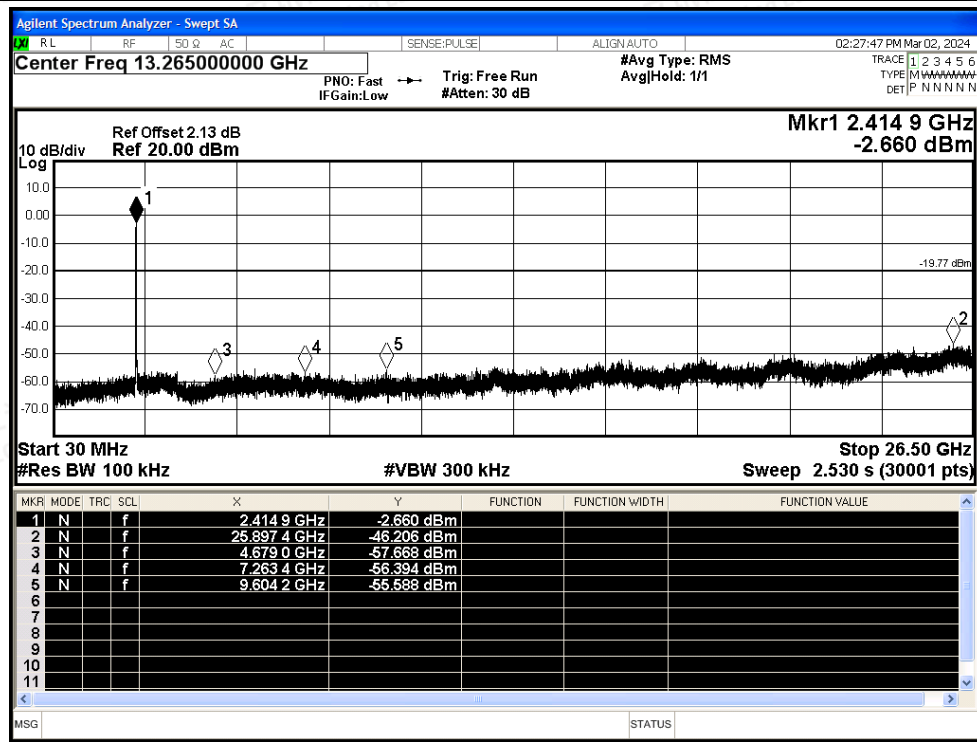


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant Ref



Tx. Spurious NVNT b 2412MHz Ant Emission



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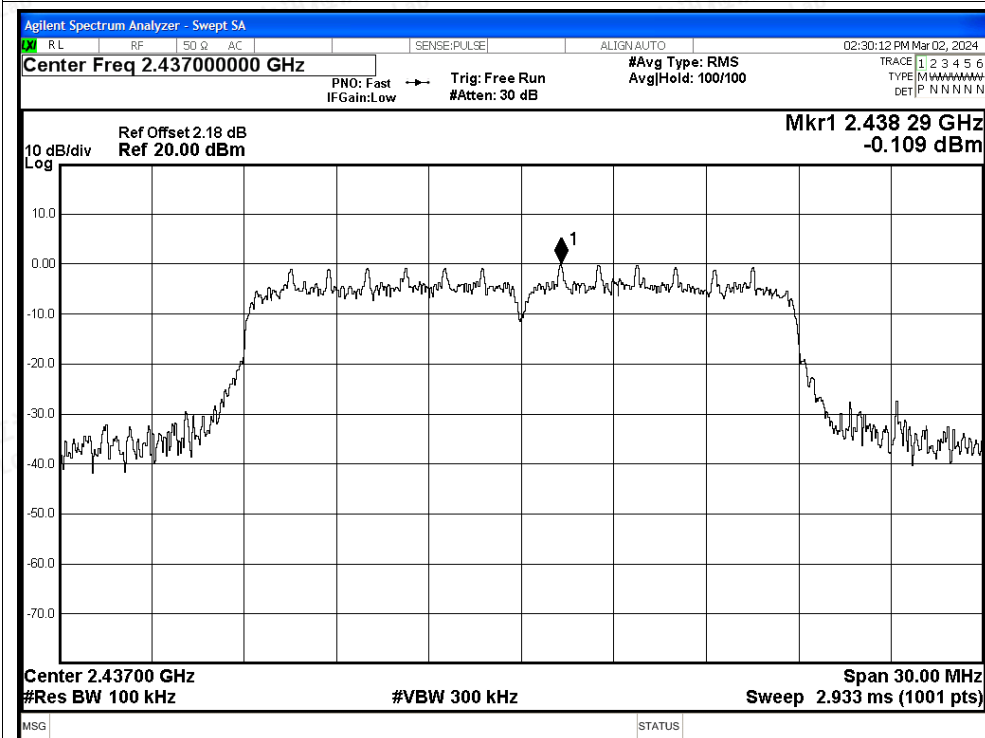
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

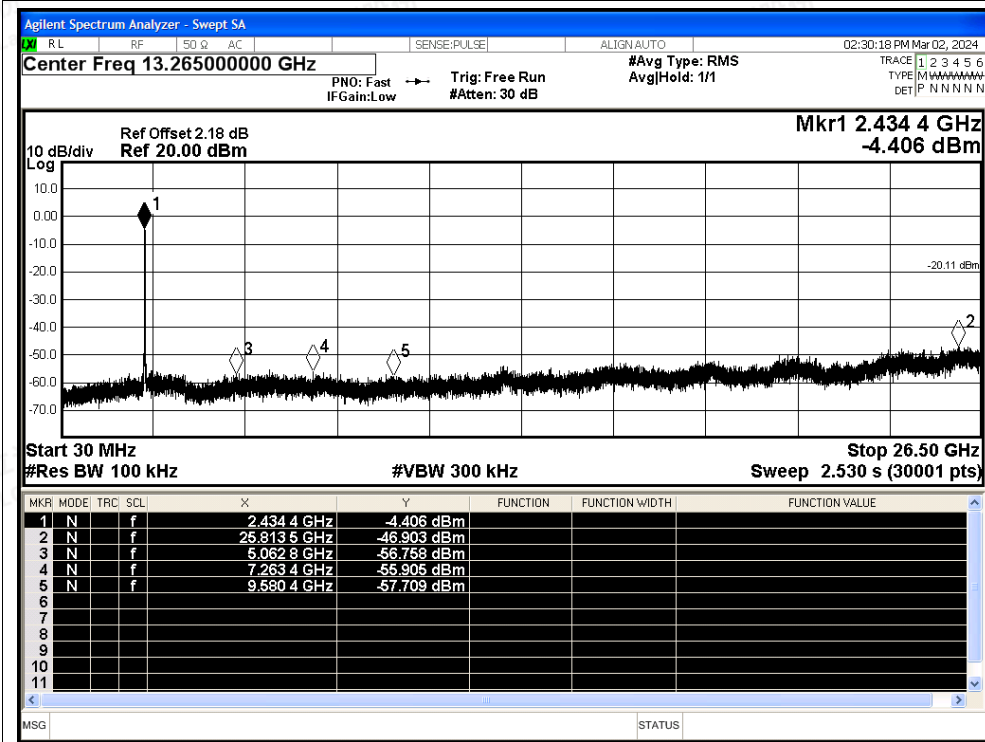
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant Ref



Tx. Spurious NVNT b 2437MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

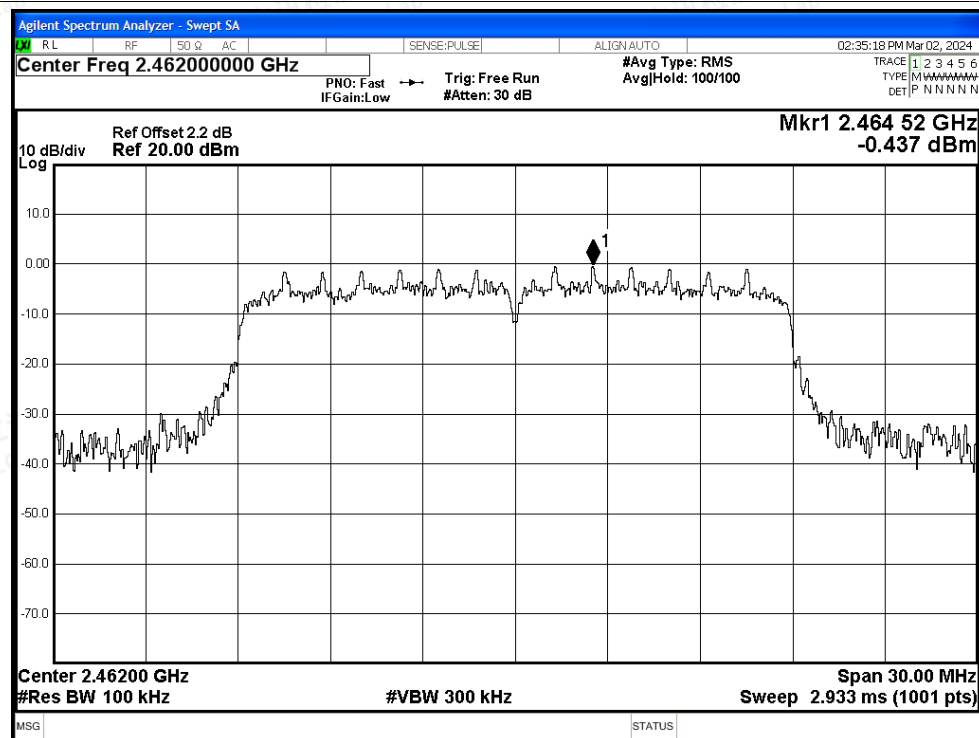
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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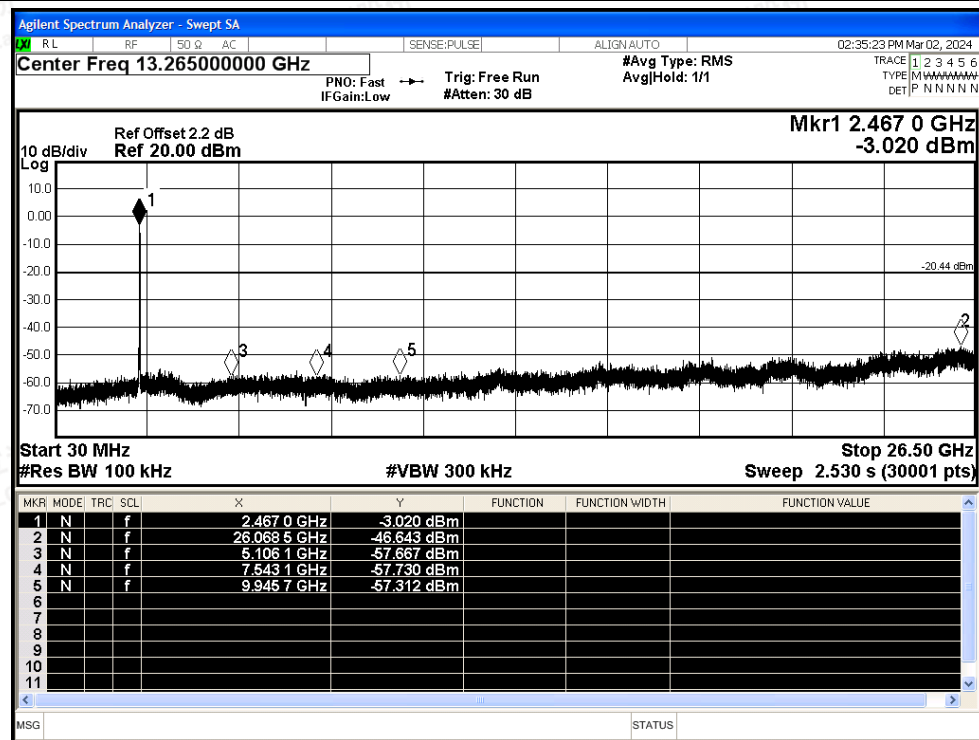
Scan code to check authenticity



Tx. Spurious NVNT b 2462MHz Ant Ref



Tx. Spurious NVNT b 2462MHz Ant Emission



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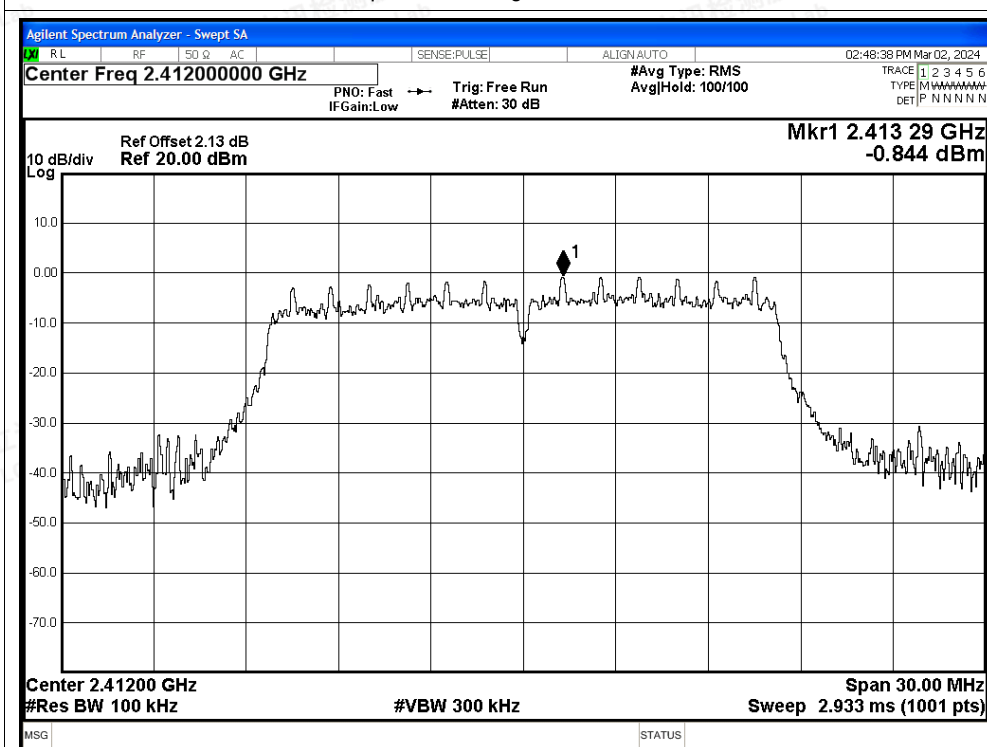
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

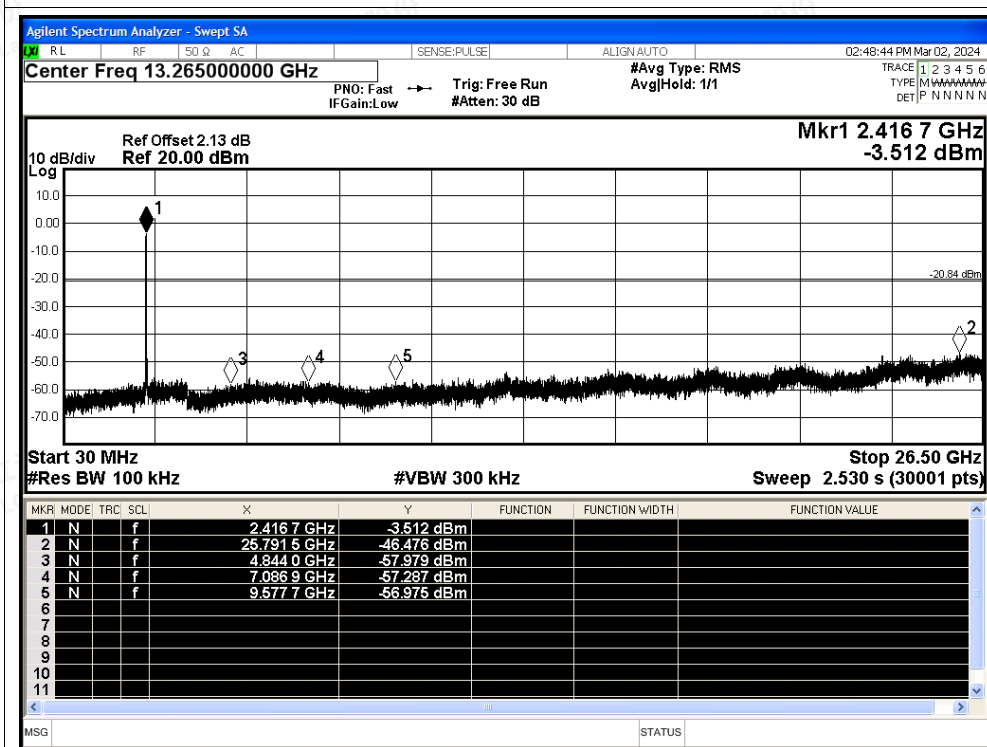
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Tx. Spurious NVNT g 2412MHz Ant Ref



Tx. Spurious NVNT g 2412MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

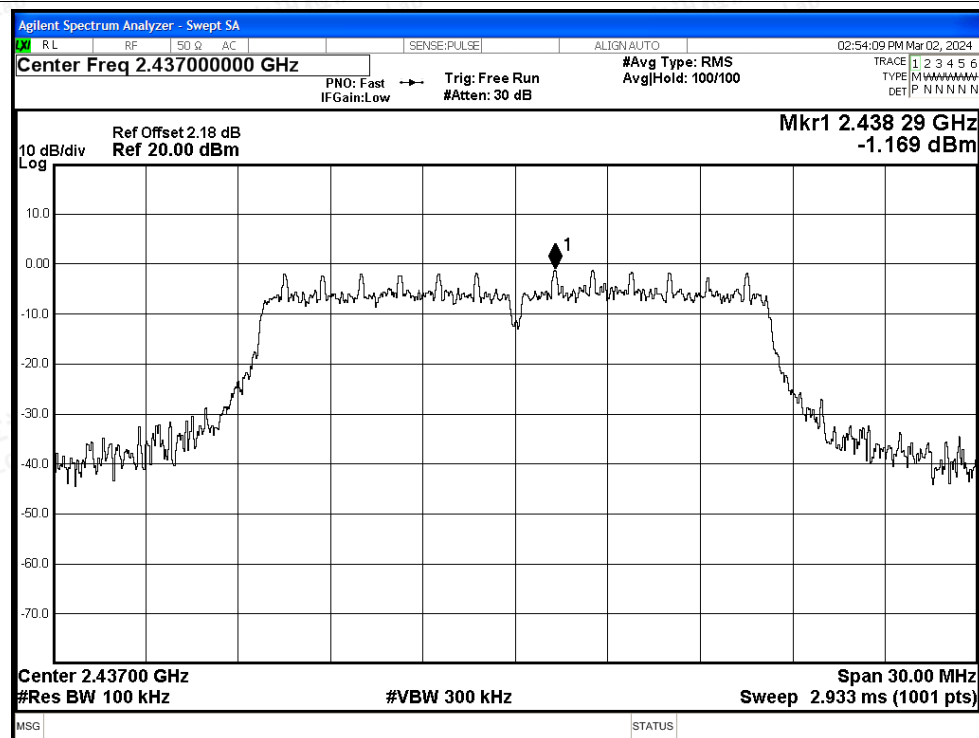
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

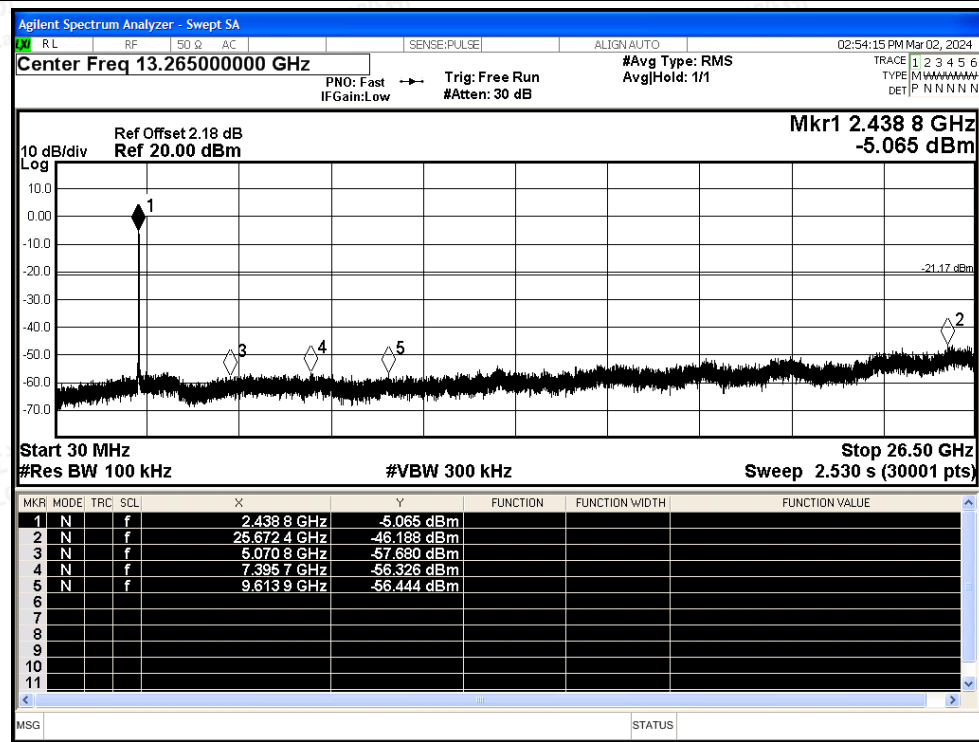
Scan code to check authenticity



Tx. Spurious NVNT g 2437MHz Ant Ref



Tx. Spurious NVNT g 2437MHz Ant Emission



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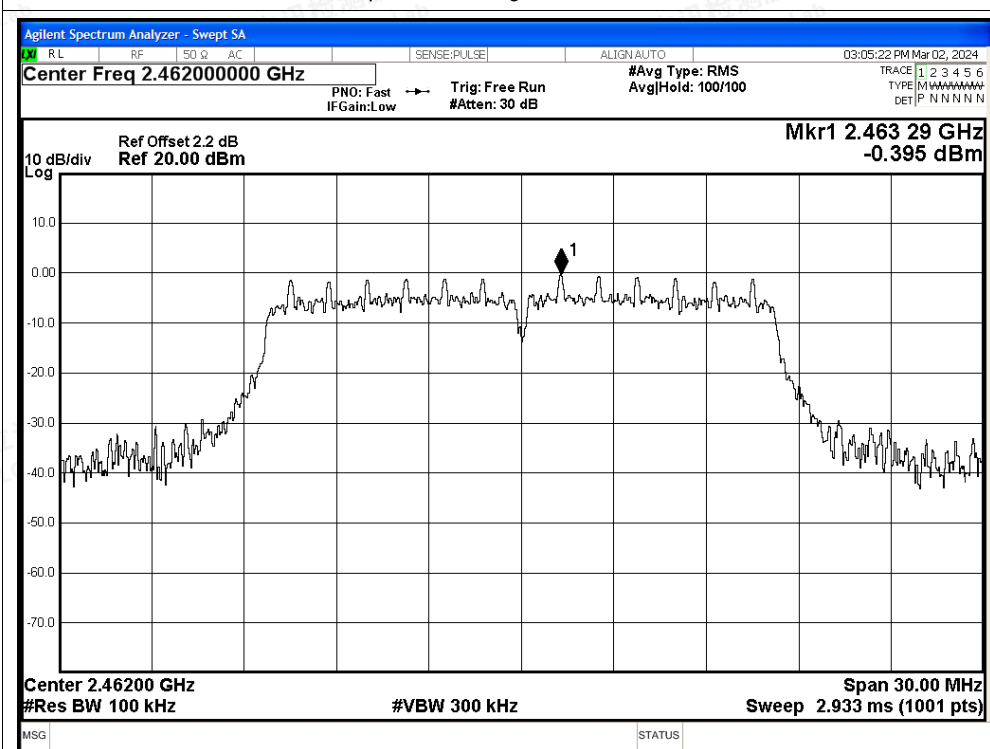
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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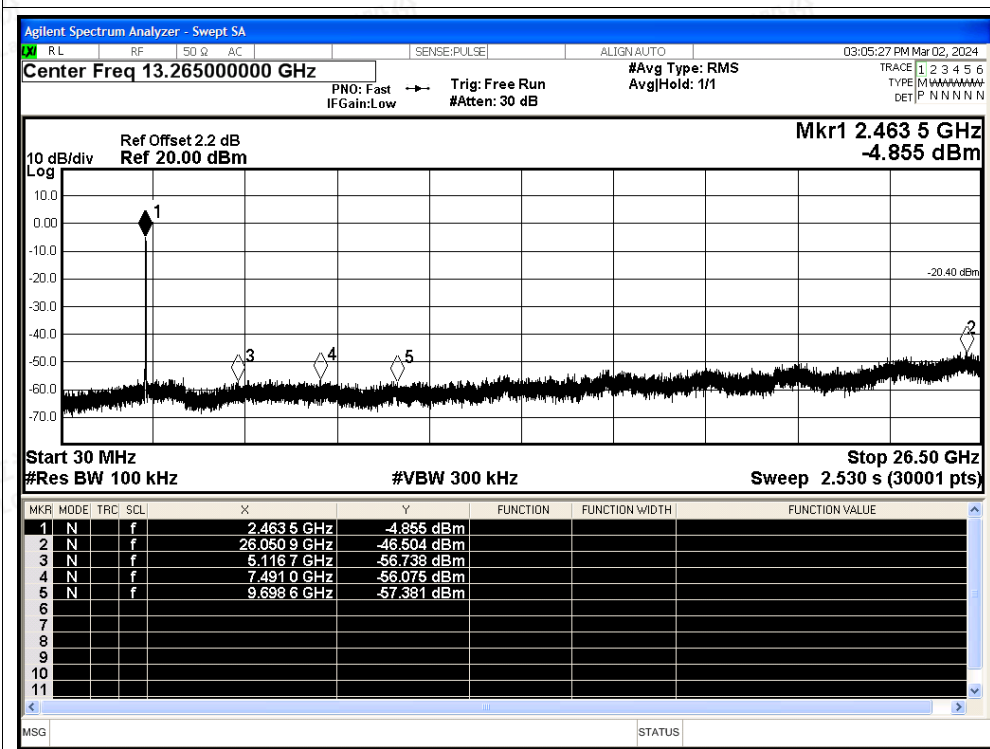
Scan code to check authenticity



Tx. Spurious NVNT g 2462MHz Ant Ref



Tx. Spurious NVNT g 2462MHz Ant Emission



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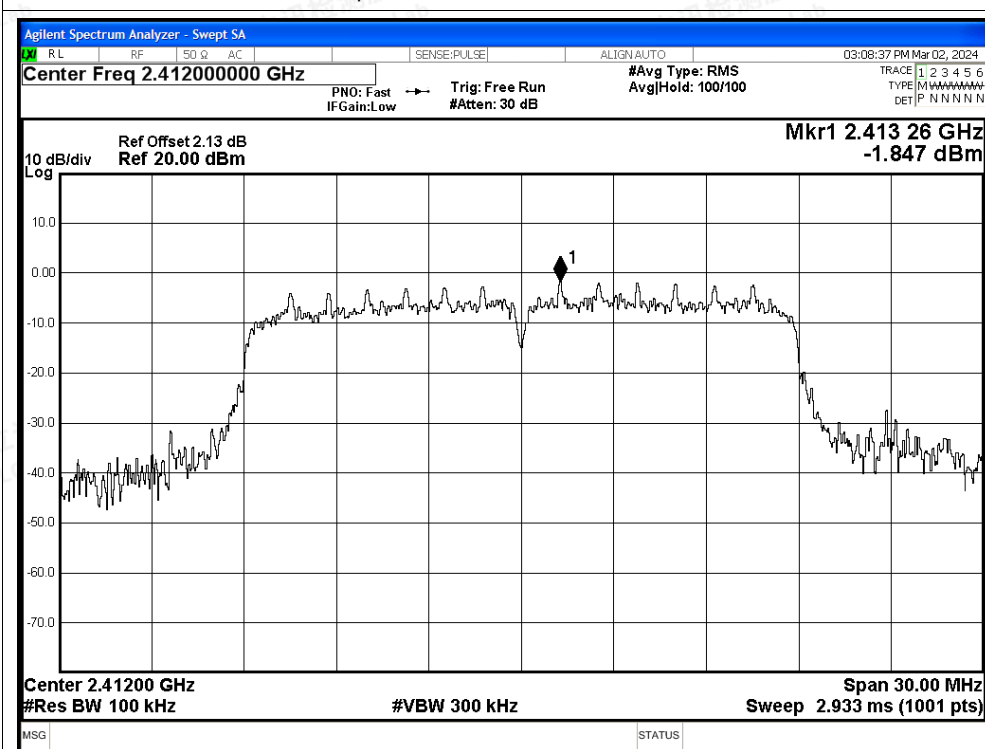
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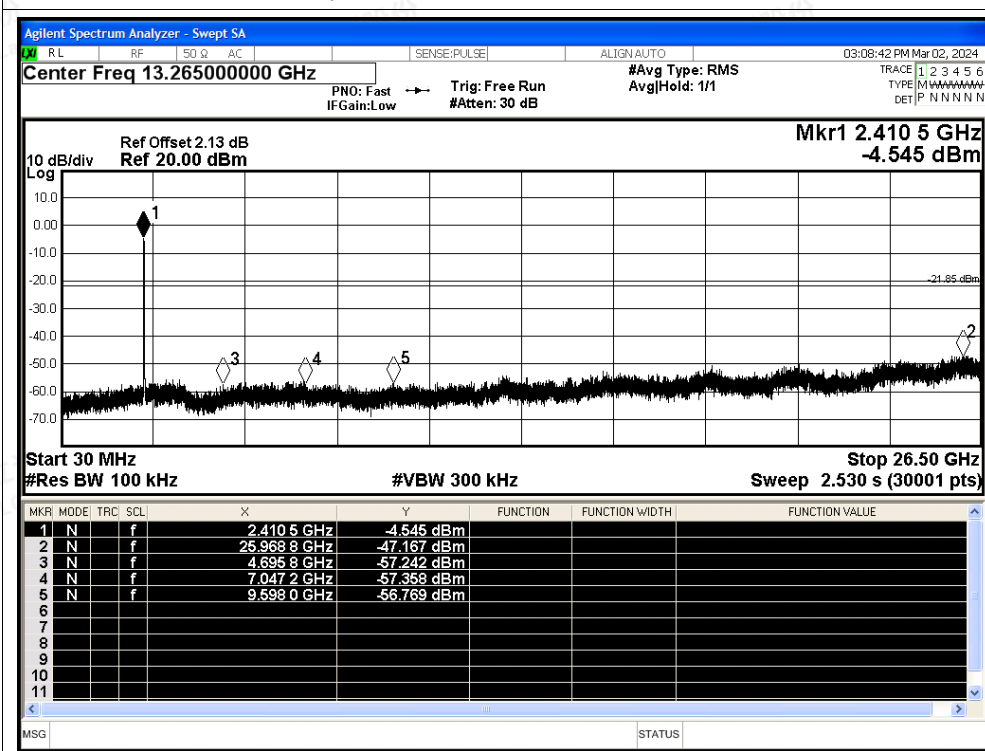
Scan code to check authenticity



Tx. Spurious NVNT n20 2412MHz Ant Ref



Tx. Spurious NVNT n20 2412MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

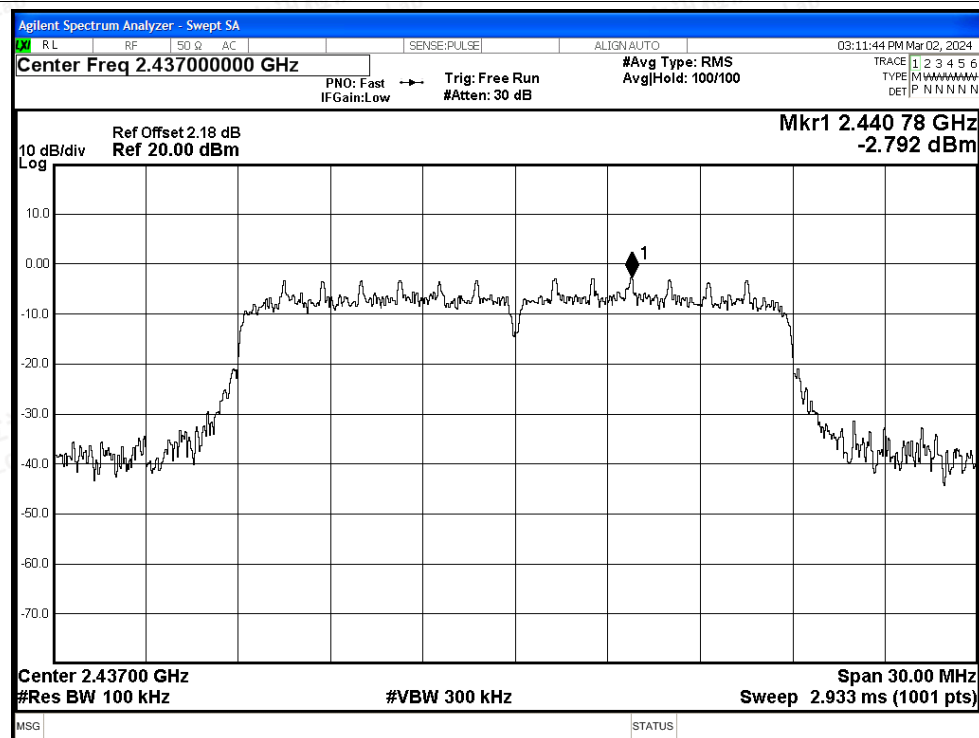
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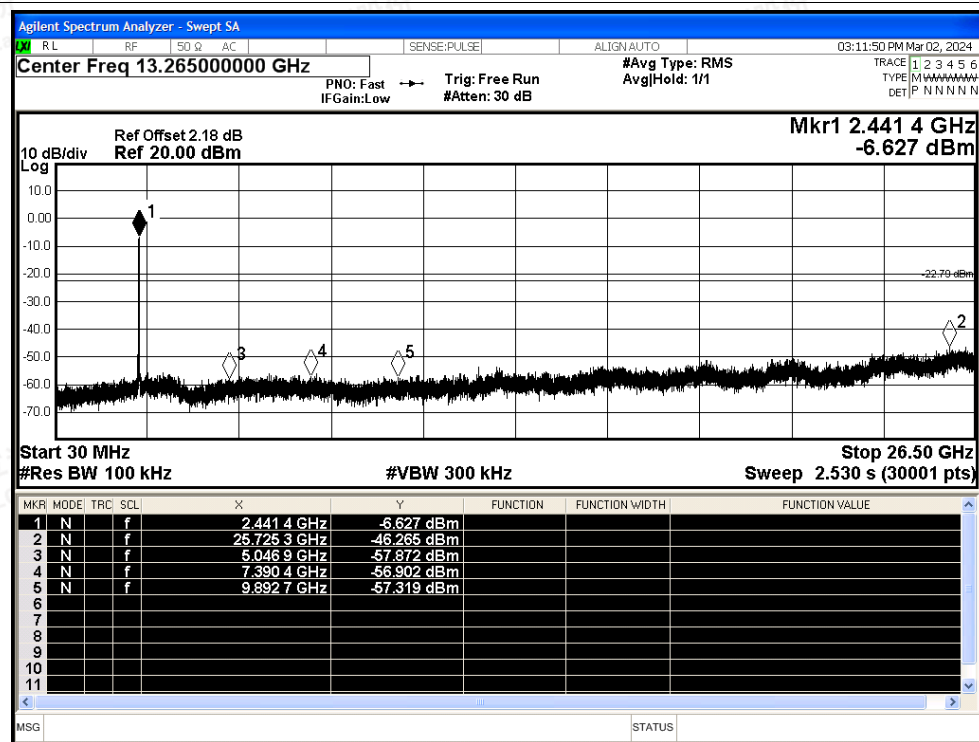
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Tx. Spurious NVNT n20 2437MHz Ant Ref



Tx. Spurious NVNT n20 2437MHz Ant Emission



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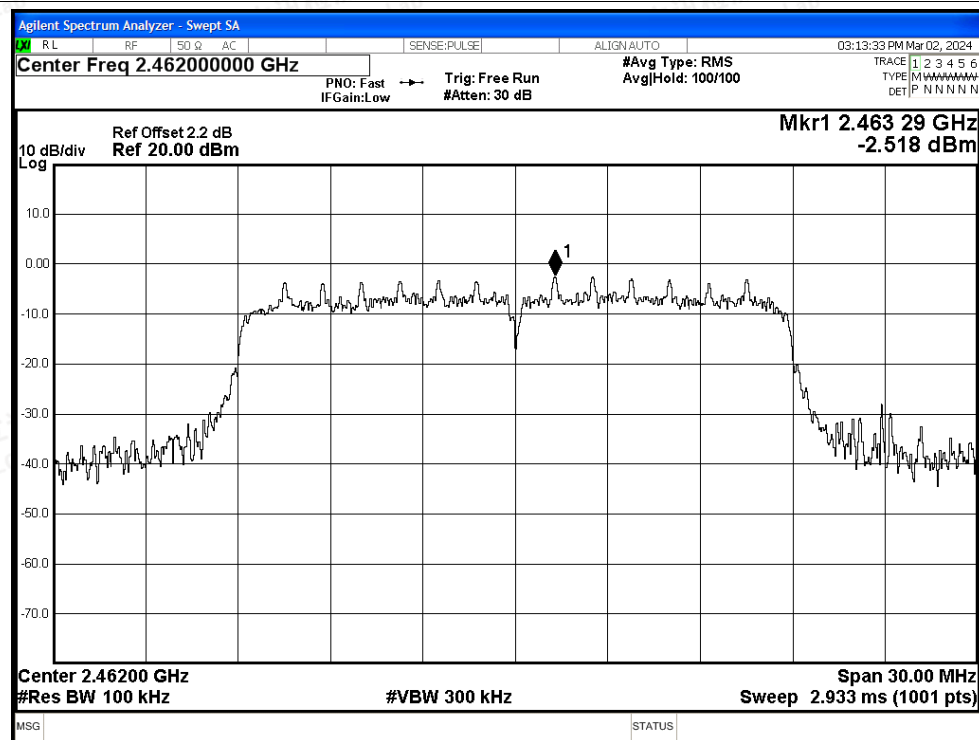
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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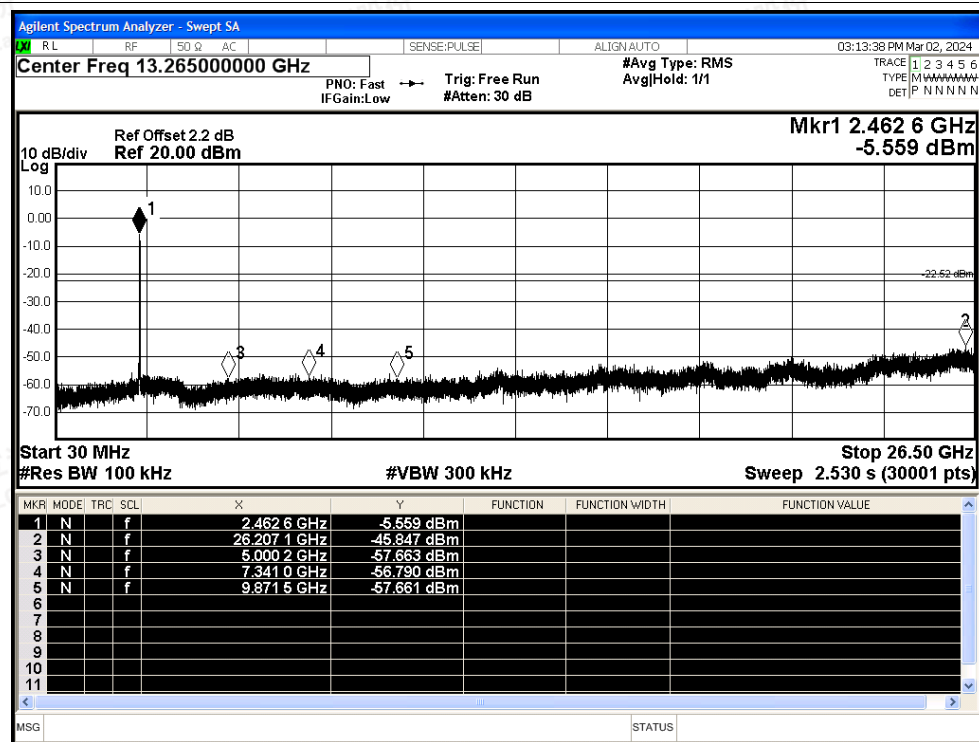
Scan code to check authenticity



Tx. Spurious NVNT n20 2462MHz Ant Ref



Tx. Spurious NVNT n20 2462MHz Ant Emission



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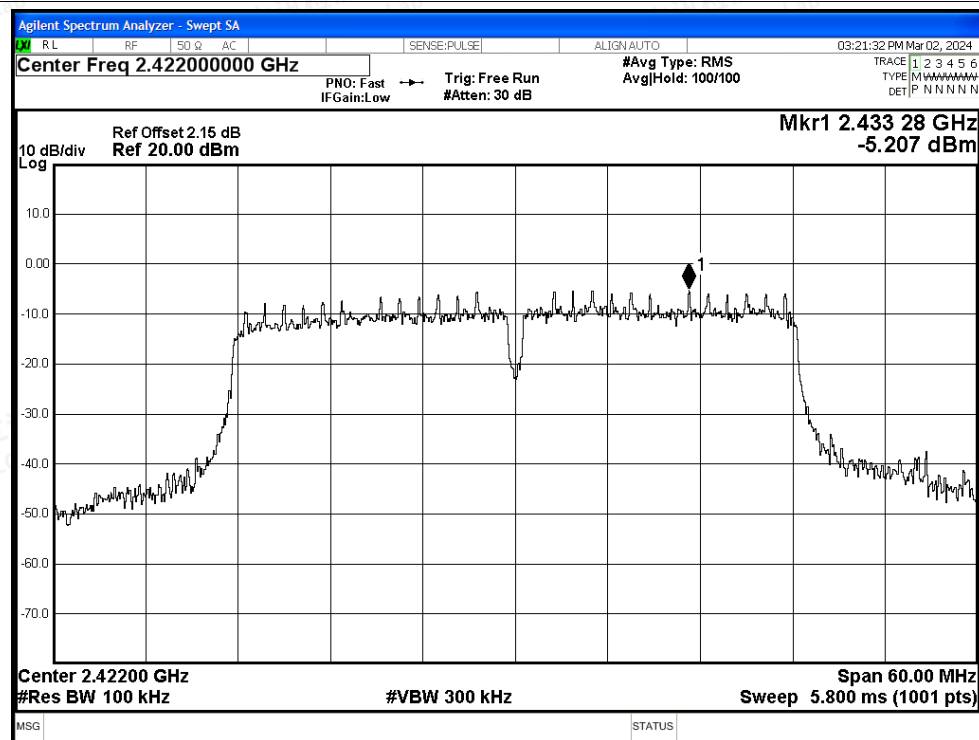
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

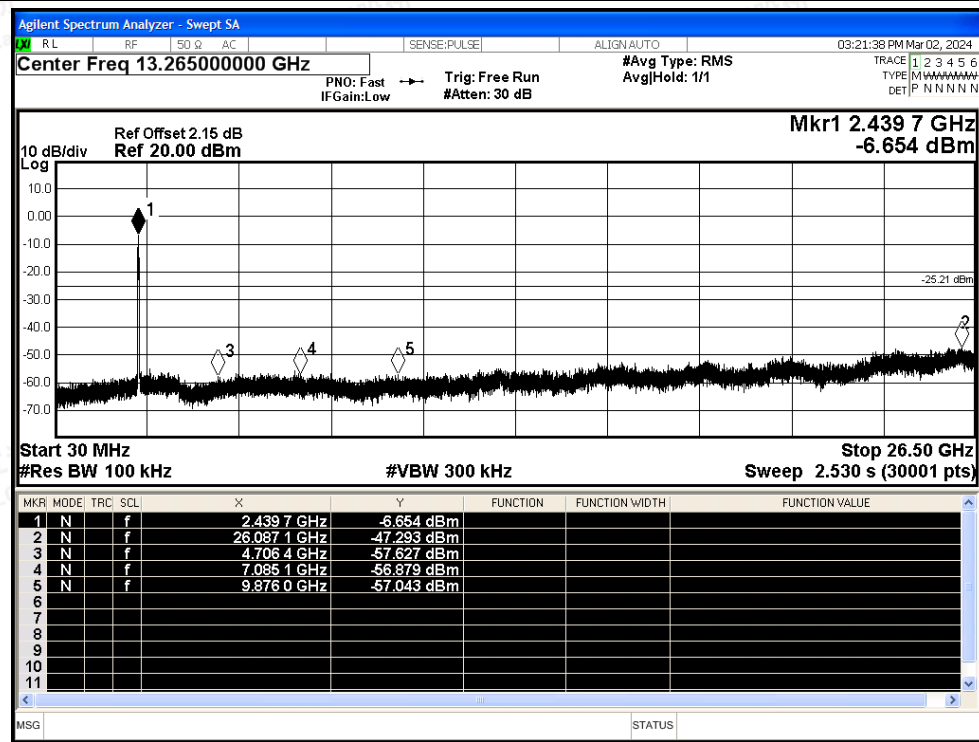
Scan code to check authenticity



Tx. Spurious NVNT n40 2422MHz Ant Ref



Tx. Spurious NVNT n40 2422MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

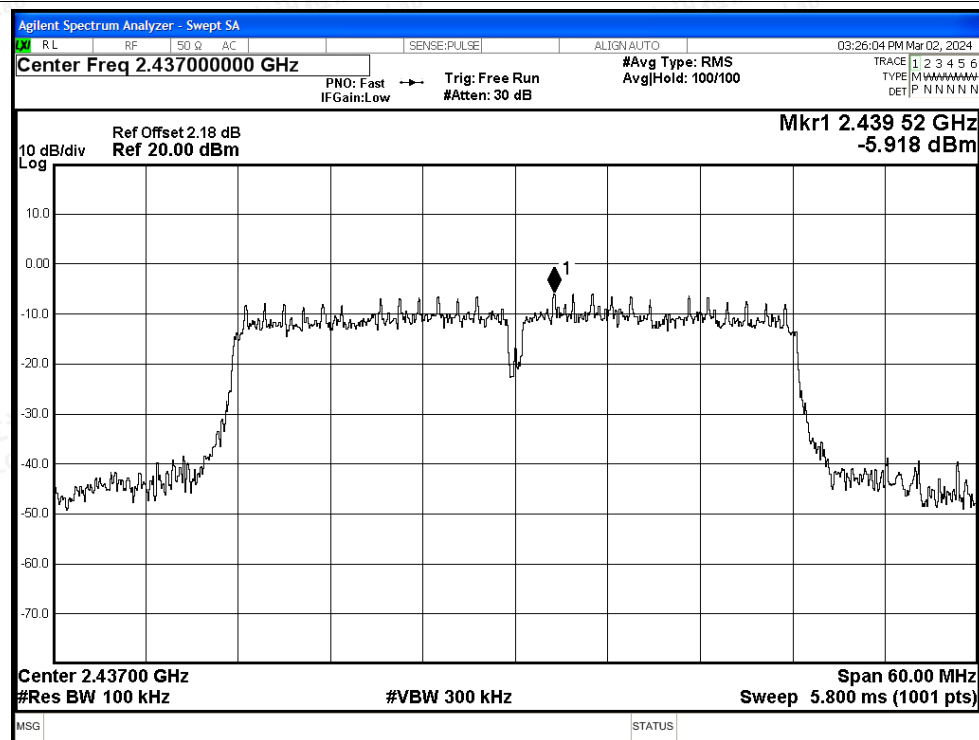
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

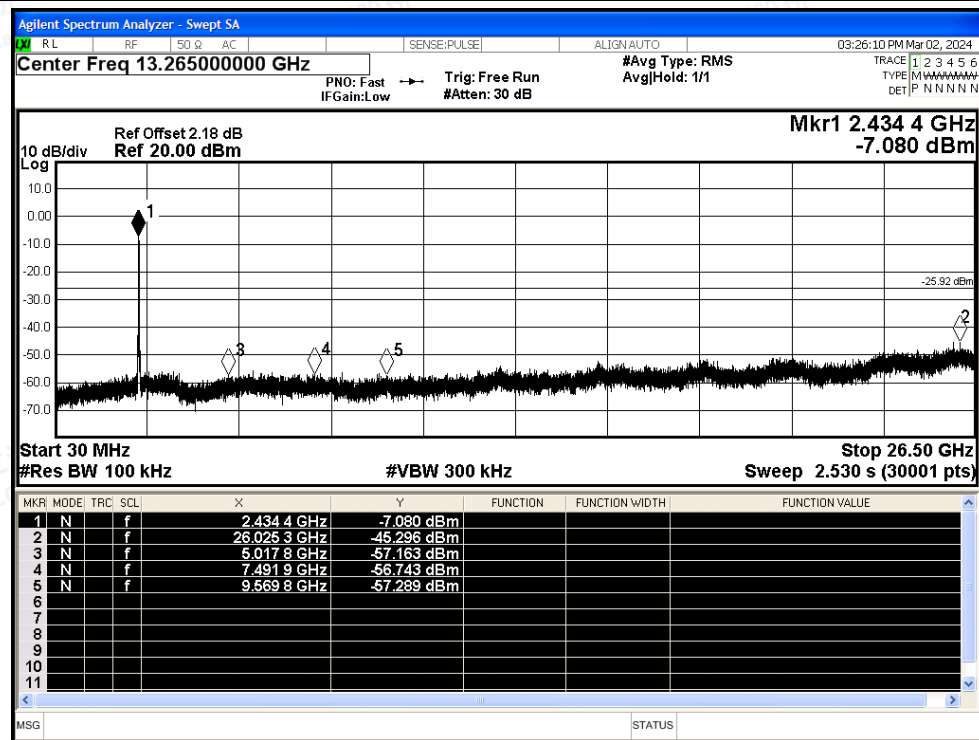
Scan code to check authenticity



Tx. Spurious NVNT n40 2437MHz Ant Ref



Tx. Spurious NVNT n40 2437MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

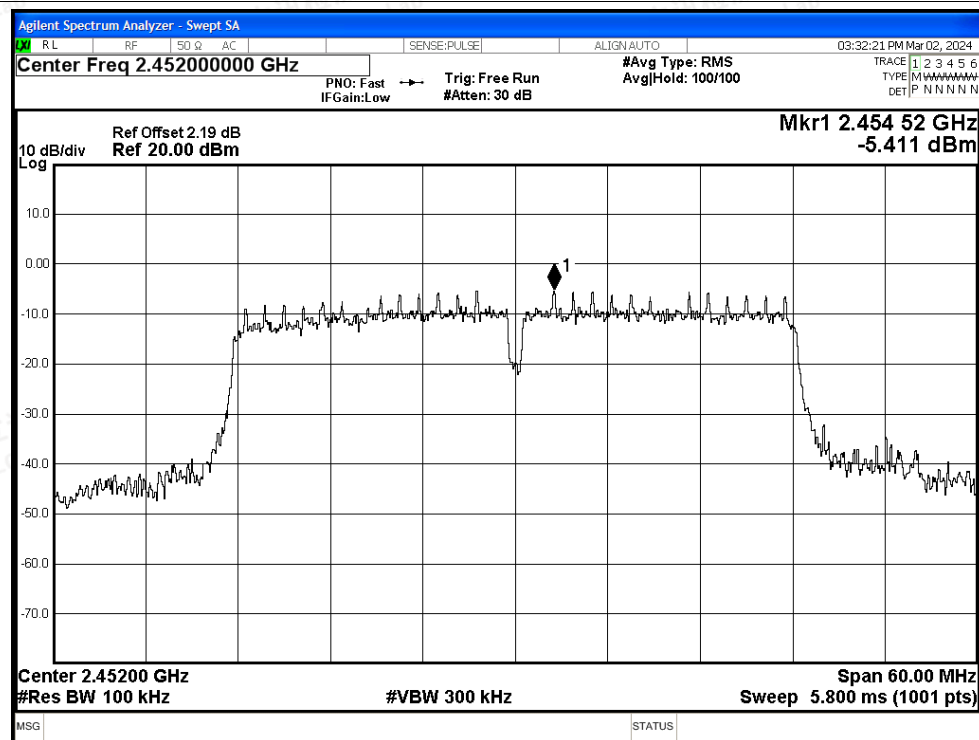
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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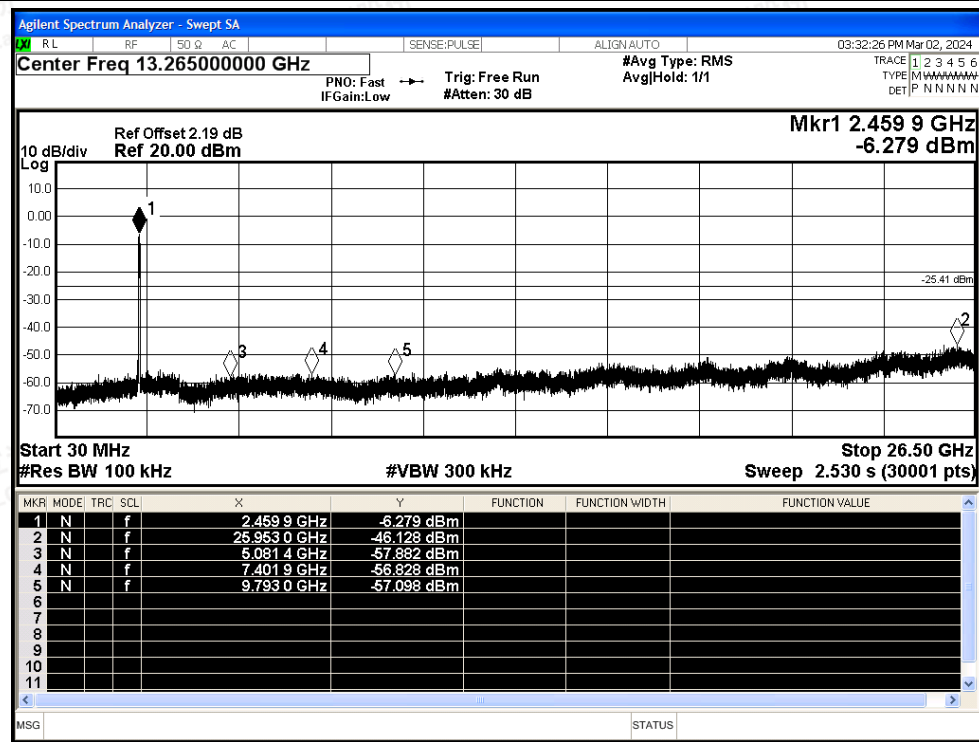
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Tx. Spurious NVNT n40 2452MHz Ant Ref



Tx. Spurious NVNT n40 2452MHz Ant Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant	65.17	1.86	8.62
NVNT	b	2437	Ant	64.04	1.94	8.77
NVNT	b	2462	Ant	65.17	1.86	8.62
NVNT	g	2412	Ant	64.44	1.91	8.62
NVNT	g	2437	Ant	64.44	1.91	8.62
NVNT	g	2462	Ant	65.56	1.83	8.47
NVNT	n20	2412	Ant	65.17	1.86	8.62
NVNT	n20	2437	Ant	64.04	1.94	8.77
NVNT	n20	2462	Ant	65.17	1.86	8.62
NVNT	n40	2422	Ant	55.07	2.59	13.16
NVNT	n40	2437	Ant	55.07	2.59	13.16
NVNT	n40	2452	Ant	55.07	2.59	13.16



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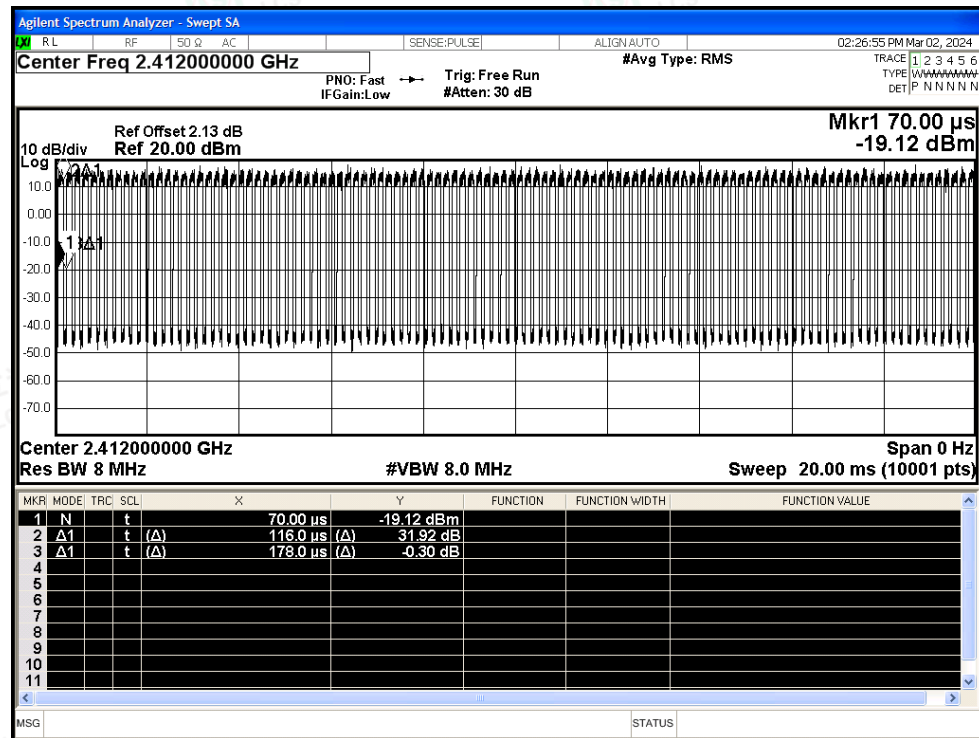
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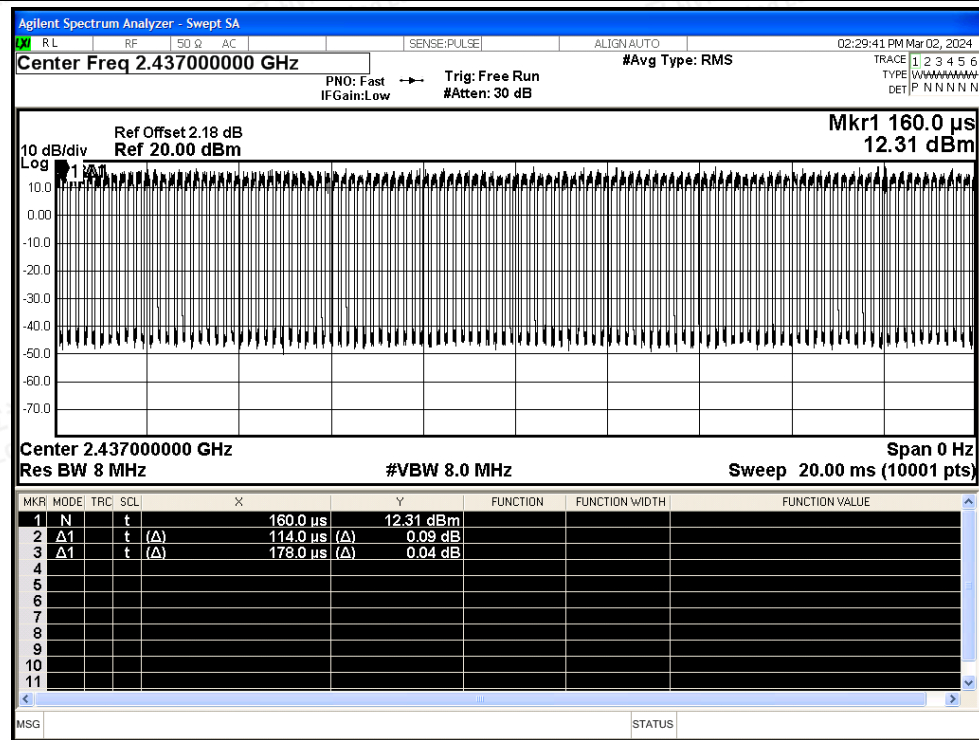


Test Graphs

Duty Cycle NVNT b 2412MHz Ant



Duty Cycle NVNT b 2437MHz Ant

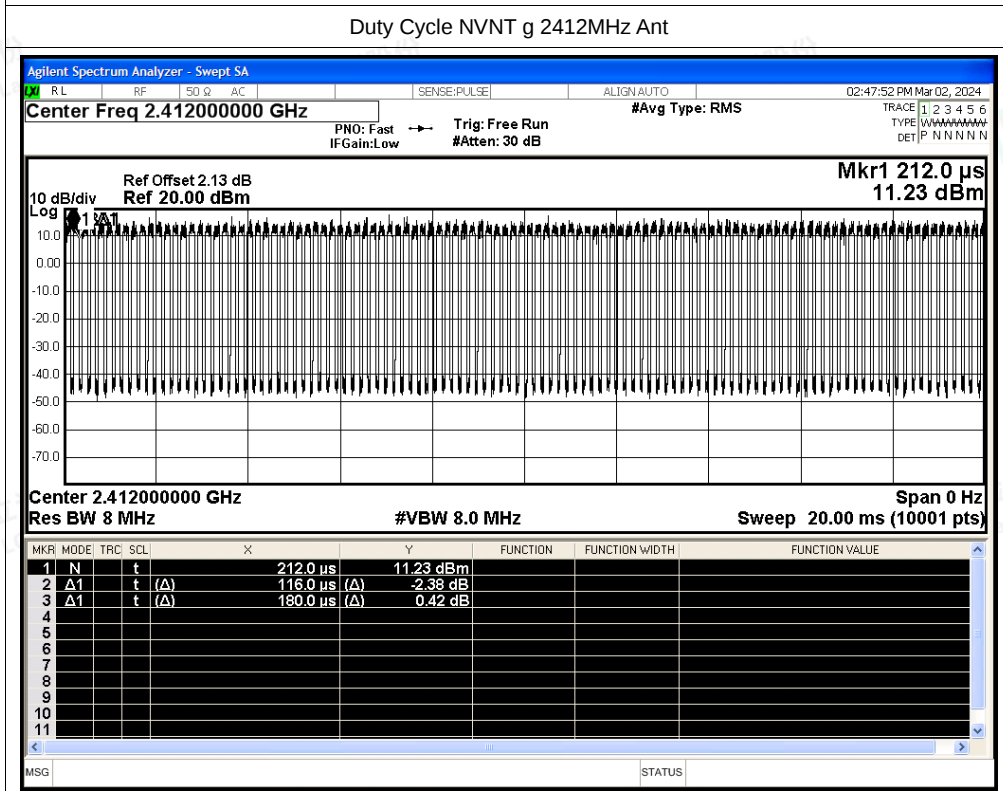
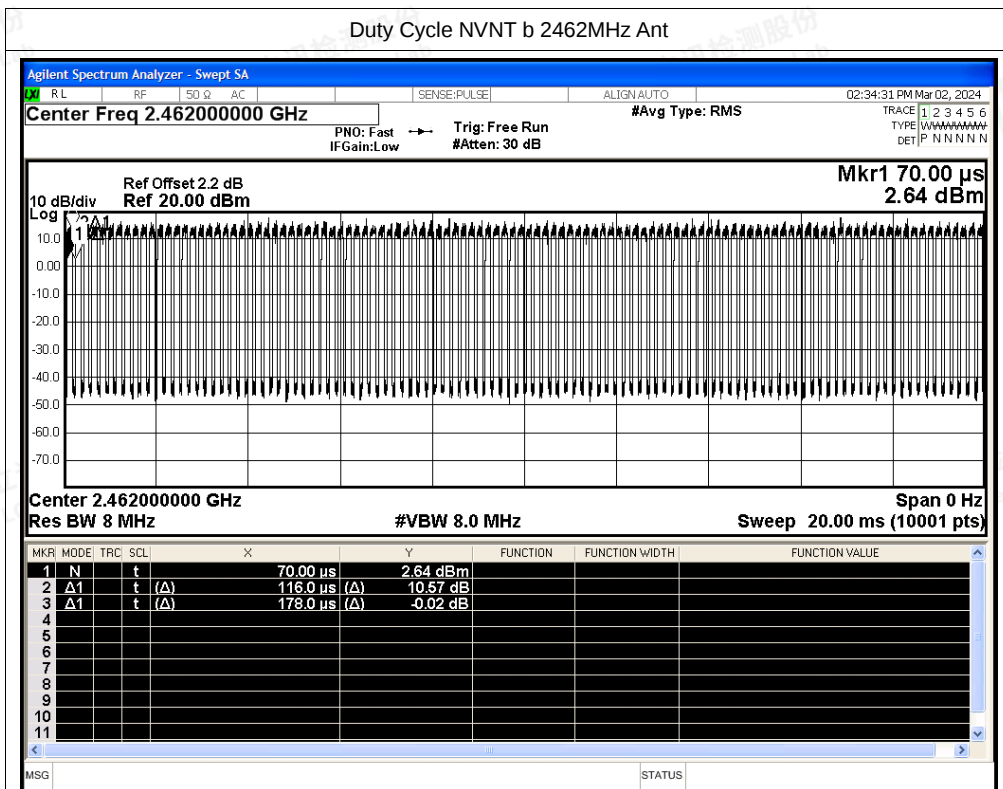


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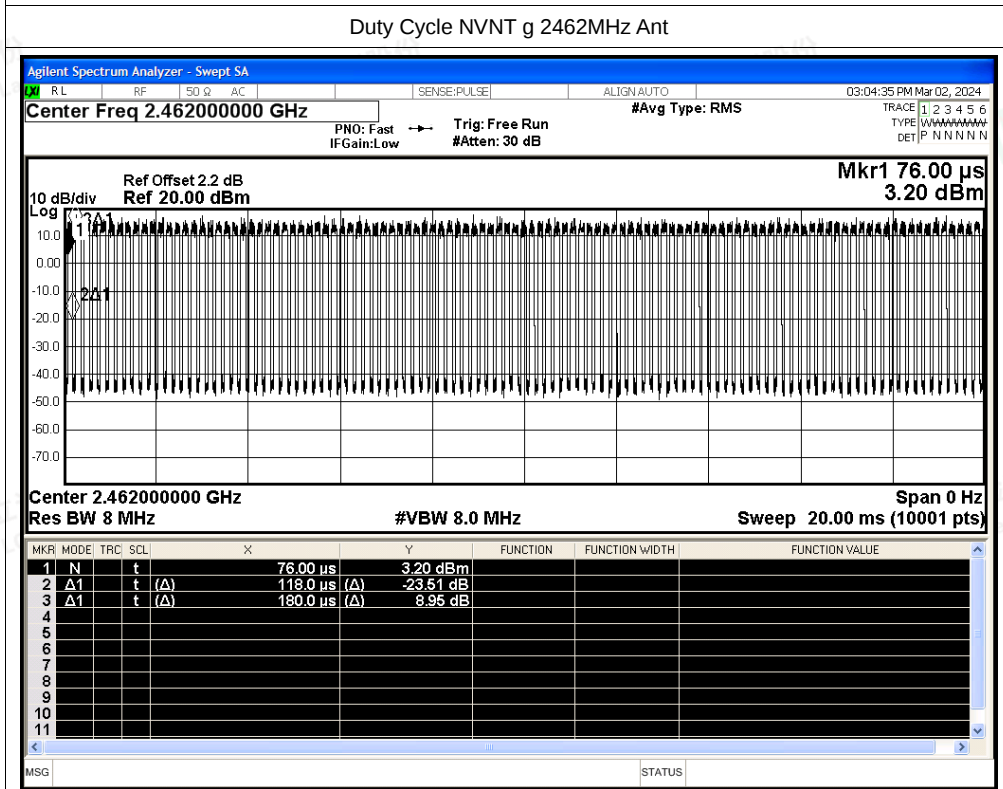
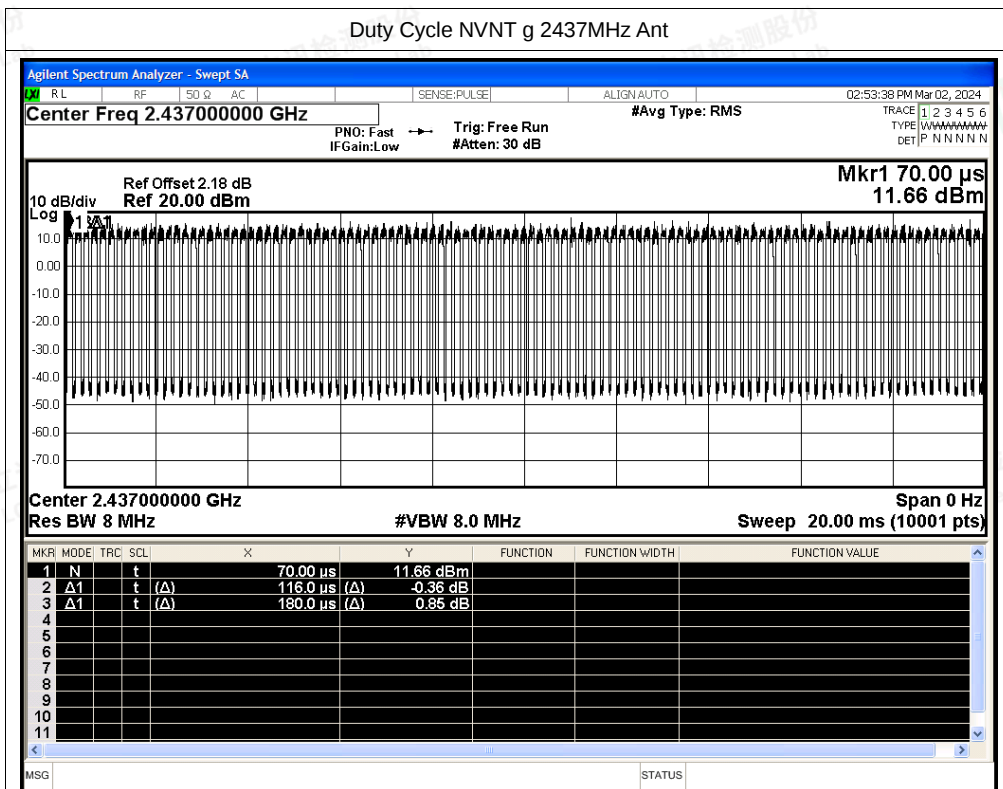


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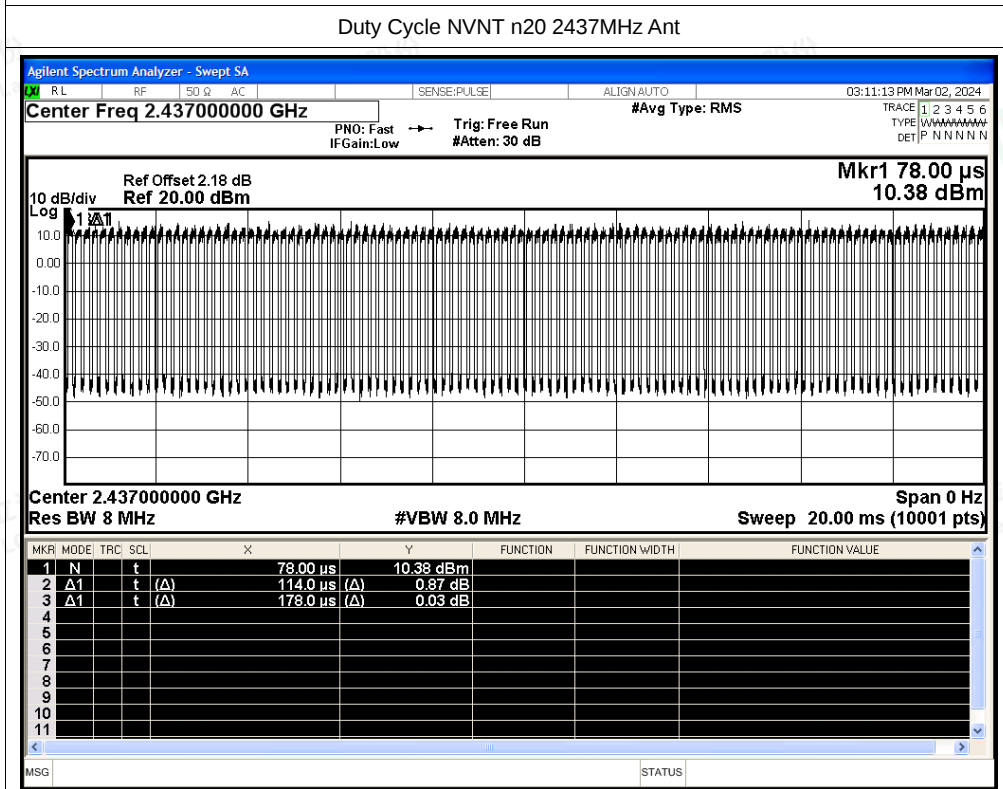
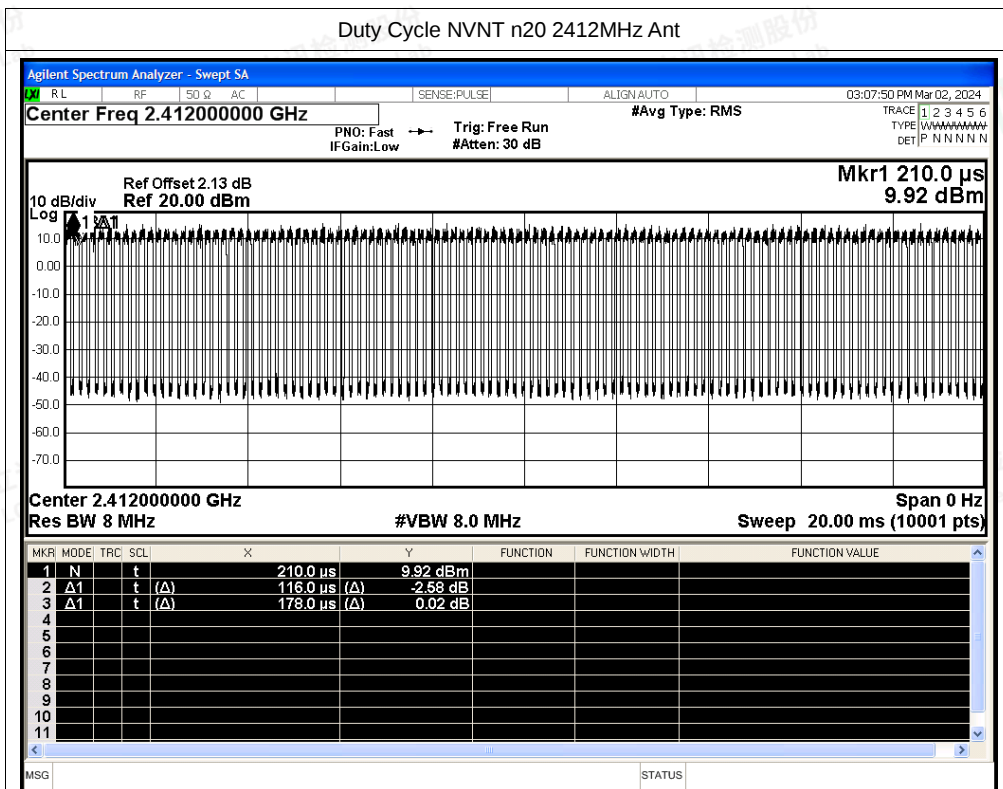


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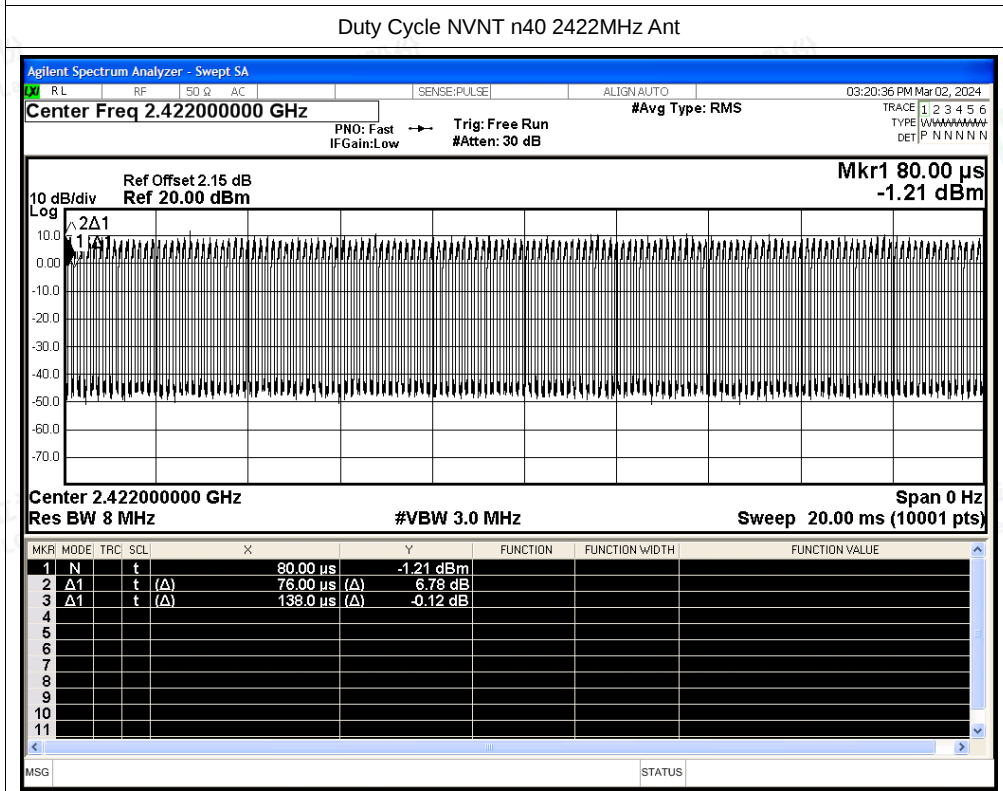
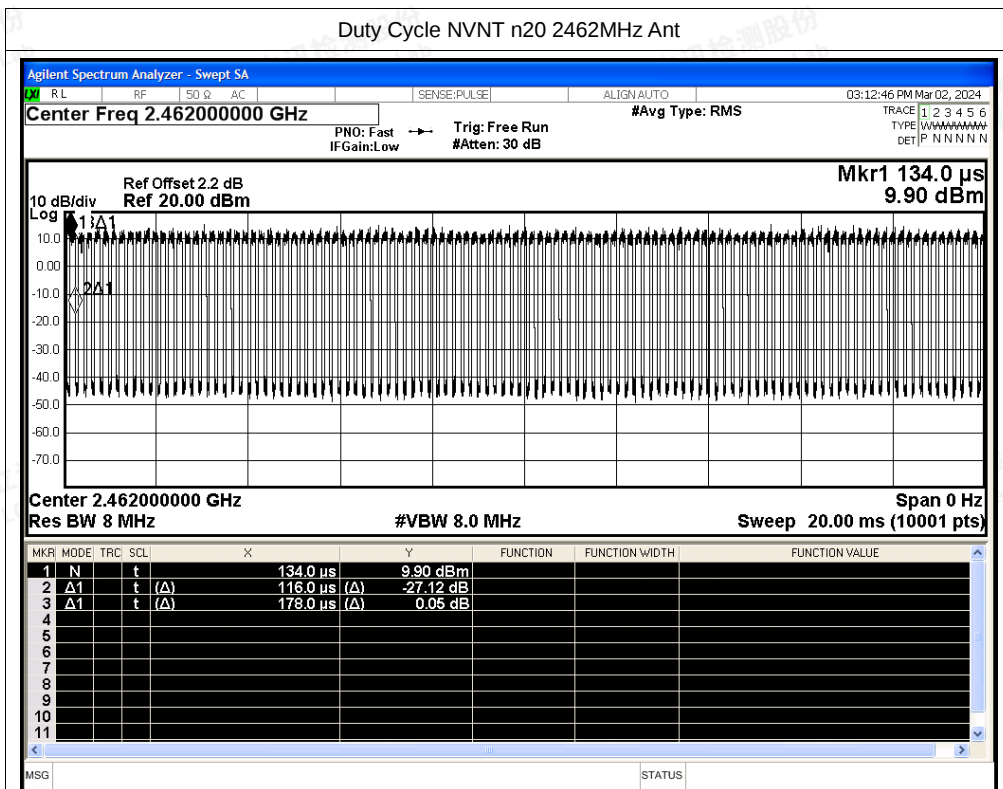


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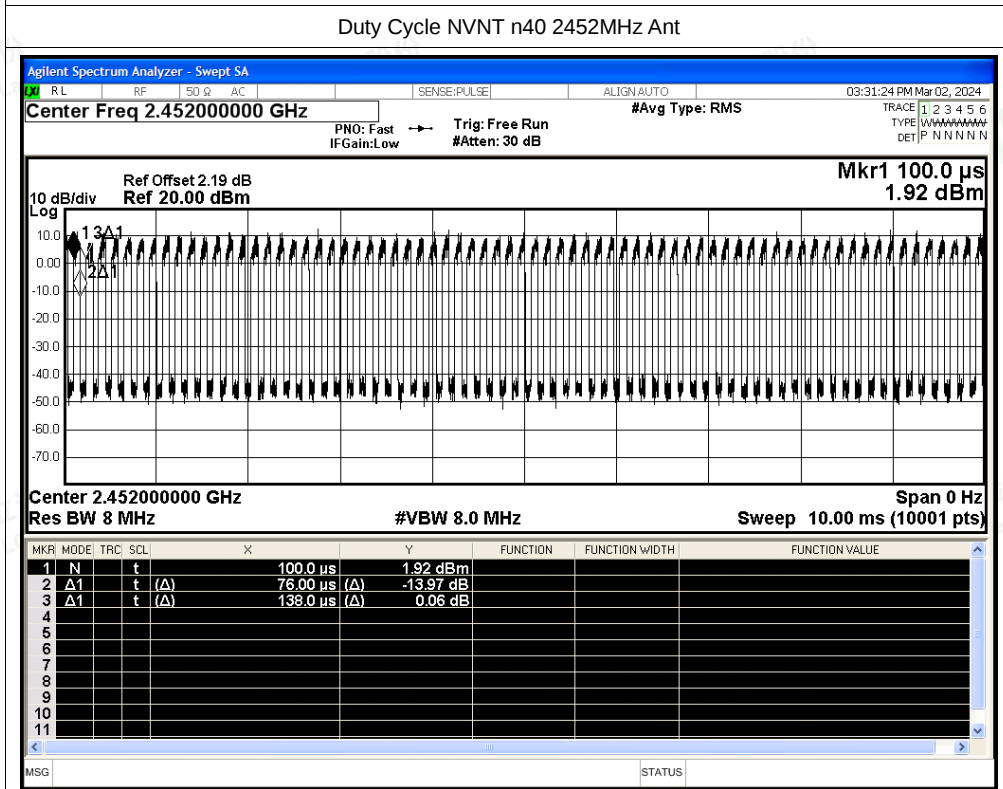
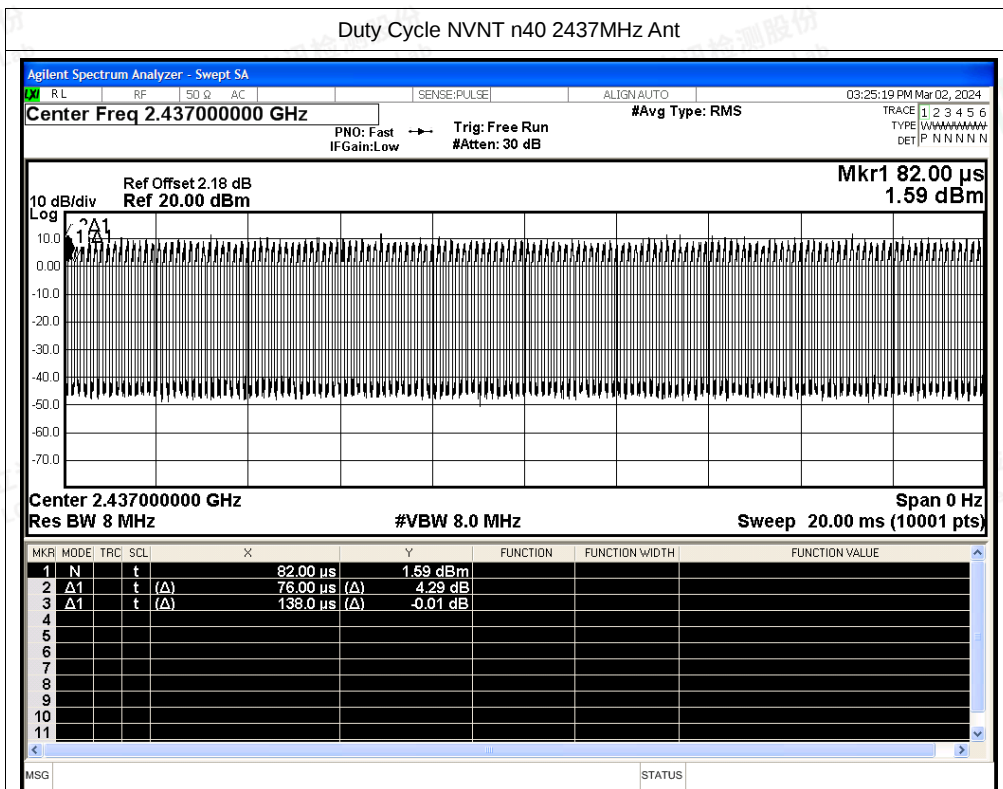


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant	2310	-52.32	2	-	44.94	Peak	74	Pass
NVNT	b	2412	Ant	2310	-58.79	2	1.86	40.33	Average	54	Pass
NVNT	b	2412	Ant	2389.794	-33.05	2	-	64.21	Peak	74	Pass
NVNT	b	2412	Ant	2389.911	-51.06	2	1.86	48.06	Average	54	Pass
NVNT	b	2412	Ant	2390	-40.22	2	-	57.04	Peak	74	Pass
NVNT	b	2412	Ant	2390	-53.02	2	1.86	46.1	Average	54	Pass
NVNT	b	2462	Ant	2483.5	-33.26	2	-	64	Peak	74	Pass
NVNT	b	2462	Ant	2483.5	-51.74	2	1.86	47.38	Average	54	Pass
NVNT	b	2462	Ant	2483.517	-33.26	2	-	64	Peak	74	Pass
NVNT	b	2462	Ant	2483.57	-50.53	2	1.86	48.59	Average	54	Pass
NVNT	b	2462	Ant	2500	-49.64	2	-	47.62	Peak	74	Pass
NVNT	b	2462	Ant	2500	-57.99	2	1.86	41.13	Average	54	Pass
NVNT	g	2412	Ant	2310	-51.32	2	-	45.94	Peak	74	Pass
NVNT	g	2412	Ant	2310	-58.83	2	1.91	40.34	Average	54	Pass
NVNT	g	2412	Ant	2389.092	-38.09	2	-	59.17	Peak	74	Pass
NVNT	g	2412	Ant	2389.677	-53.42	2	1.91	45.75	Average	54	Pass
NVNT	g	2412	Ant	2390	-38.27	2	-	58.99	Peak	74	Pass
NVNT	g	2412	Ant	2390	-54.58	2	1.91	44.59	Average	54	Pass
NVNT	g	2462	Ant	2483.5	-34.02	2	-	63.24	Peak	74	Pass
NVNT	g	2462	Ant	2483.5	-49.11	2	1.83	49.98	Average	54	Pass
NVNT	g	2462	Ant	2484.948	-31.43	2	-	65.83	Peak	74	Pass
NVNT	g	2462	Ant	2484.153	-47.28	2	1.83	51.81	Average	54	Pass
NVNT	g	2462	Ant	2500	-47.75	2	-	49.51	Peak	74	Pass
NVNT	g	2462	Ant	2500	-58.11	2	1.83	40.98	Average	54	Pass
NVNT	n20	2412	Ant	2310	-51.38	2	-	45.88	Peak	74	Pass
NVNT	n20	2412	Ant	2310	-58.97	2	1.86	40.15	Average	54	Pass
NVNT	n20	2412	Ant	2388.858	-39.8	2	-	57.46	Peak	74	Pass
NVNT	n20	2412	Ant	2389.911	-55.03	2	1.86	44.09	Average	54	Pass
NVNT	n20	2412	Ant	2390	-41.07	2	-	56.19	Peak	74	Pass
NVNT	n20	2412	Ant	2390	-54.89	2	1.86	44.23	Average	54	Pass
NVNT	n20	2462	Ant	2483.5	-32.8	2	-	64.46	Peak	74	Pass
NVNT	n20	2462	Ant	2483.5	-50.33	2	1.86	48.79	Average	54	Pass
NVNT	n20	2462	Ant	2483.676	-28.65	2	-	68.61	Peak	74	Pass
NVNT	n20	2462	Ant	2483.623	-48.37	2	1.86	50.75	Average	54	Pass
NVNT	n20	2462	Ant	2500	-51.03	2	-	46.23	Peak	74	Pass
NVNT	n20	2462	Ant	2500	-58.19	2	1.86	40.93	Average	54	Pass
NVNT	n40	2422	Ant	2310	-49.66	2	-	47.6	Peak	74	Pass



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NVNT	n40	2422	Ant	2310	-58.97	2	2.59	40.88	Average	54	Pass
NVNT	n40	2422	Ant	2388.952	-39.89	2	-	57.37	Peak	74	Pass
NVNT	n40	2422	Ant	2389.804	-53.46	2	2.59	46.39	Average	54	Pass
NVNT	n40	2422	Ant	2390	-41.99	2	-	55.27	Peak	74	Pass
NVNT	n40	2422	Ant	2390	-55.05	2	2.59	44.8	Average	54	Pass
NVNT	n40	2452	Ant	2483.5	-35.67	2	-	61.59	Peak	74	Pass
NVNT	n40	2452	Ant	2483.5	-49.19	2	2.59	50.66	Average	54	Pass
NVNT	n40	2452	Ant	2484.79	-28.49	2	-	68.77	Peak	74	Pass
NVNT	n40	2452	Ant	2485.18	-46.79	2	2.59	53.06	Average	54	Pass
NVNT	n40	2452	Ant	2500	-50.72	2	-	46.54	Peak	74	Pass
NVNT	n40	2452	Ant	2500	-58.21	2	2.59	41.64	Average	54	Pass



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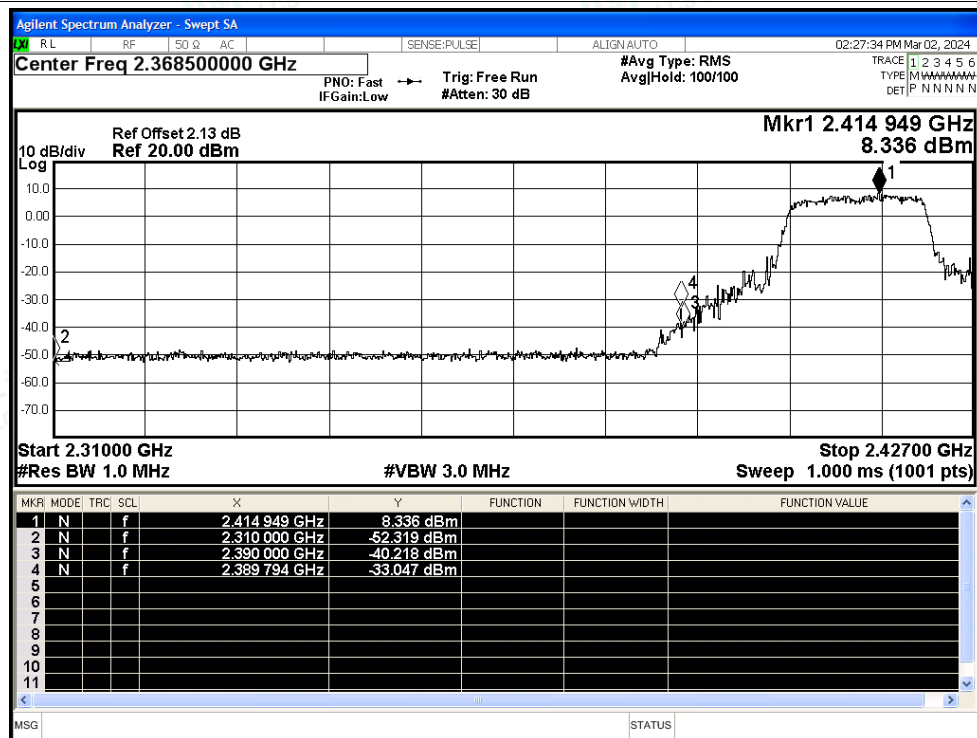
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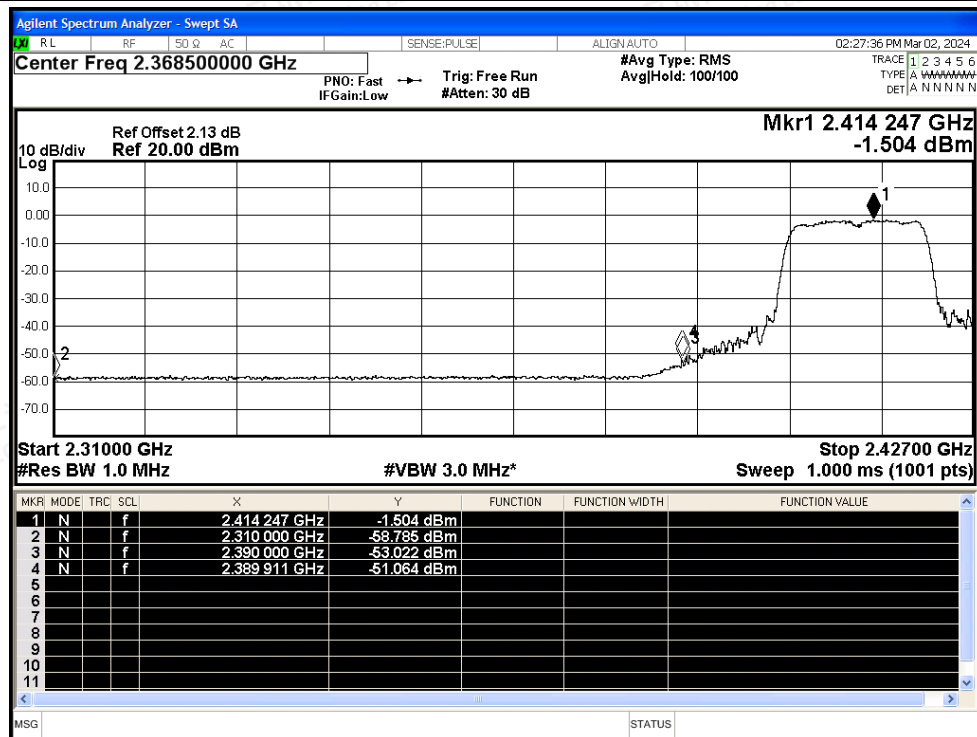


Test Graphs

Restrict Band NVNT b 2412MHz Ant Peak



Restrict Band NVNT b 2412MHz Ant Average

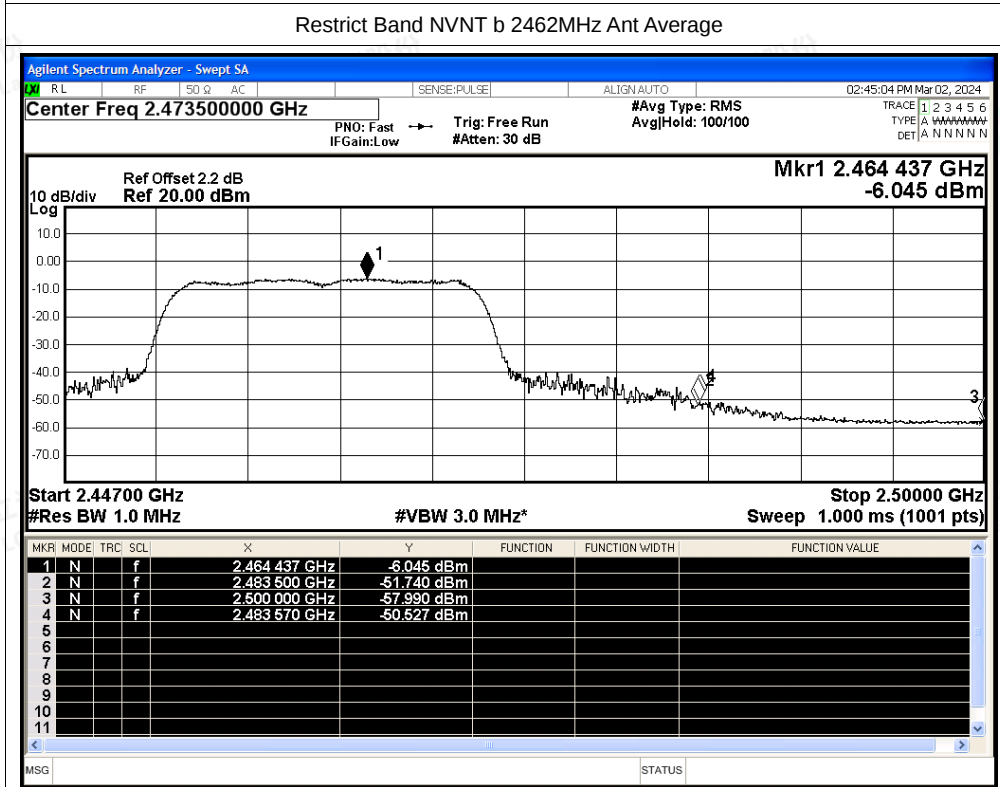
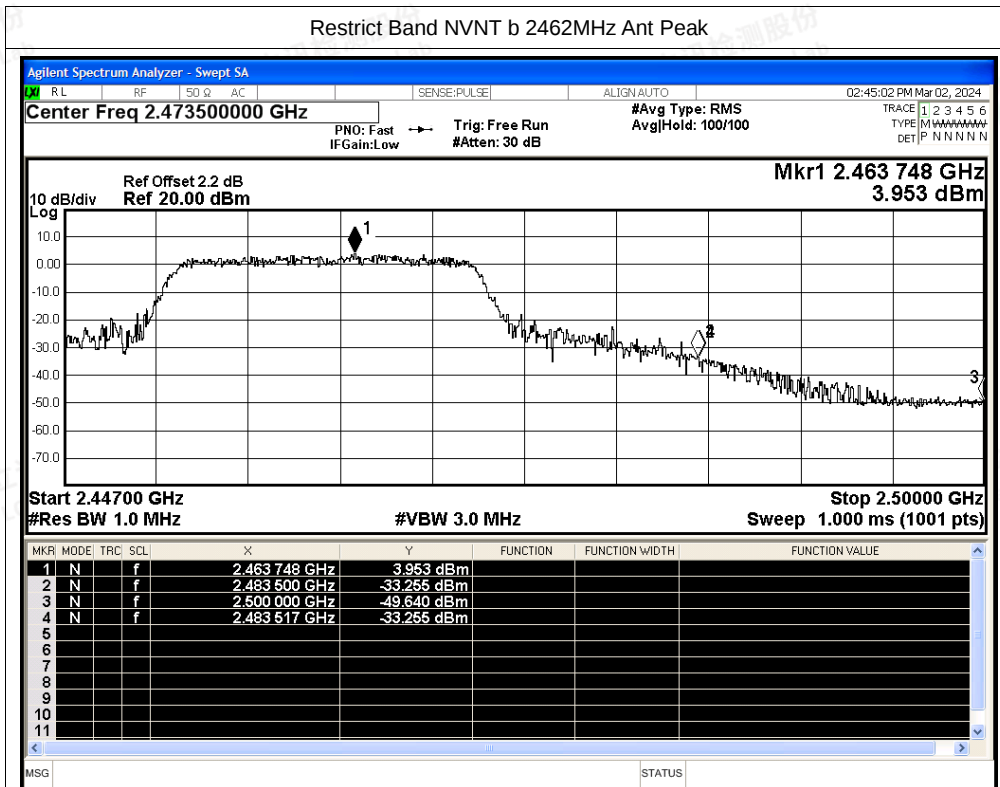


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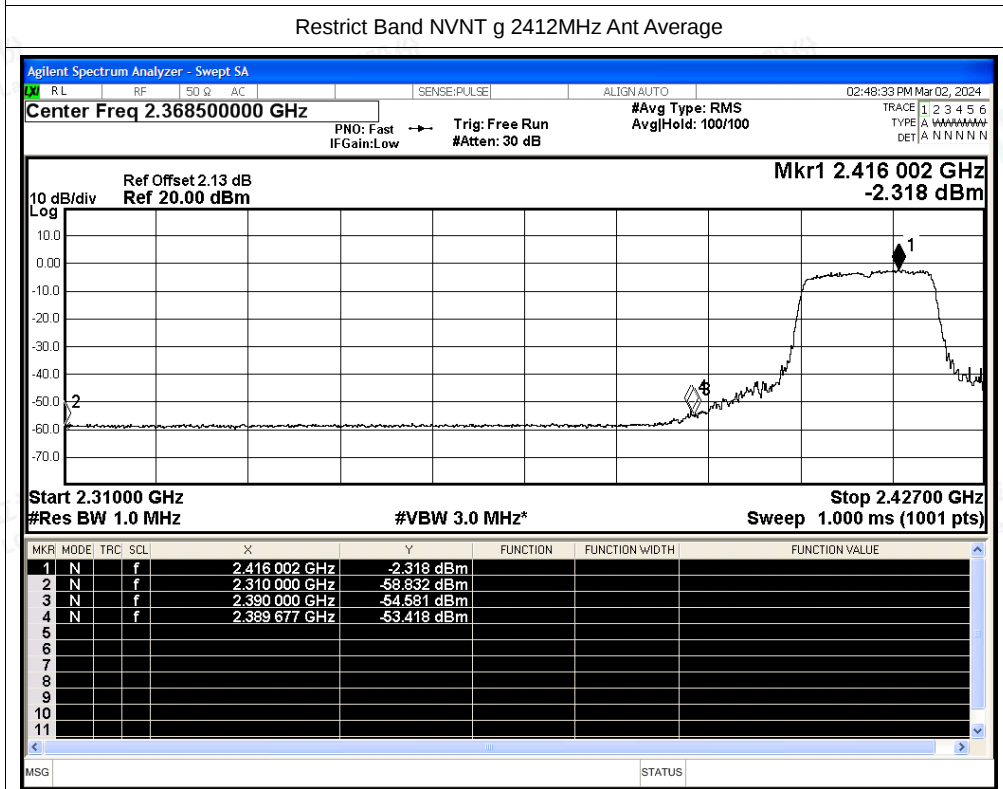
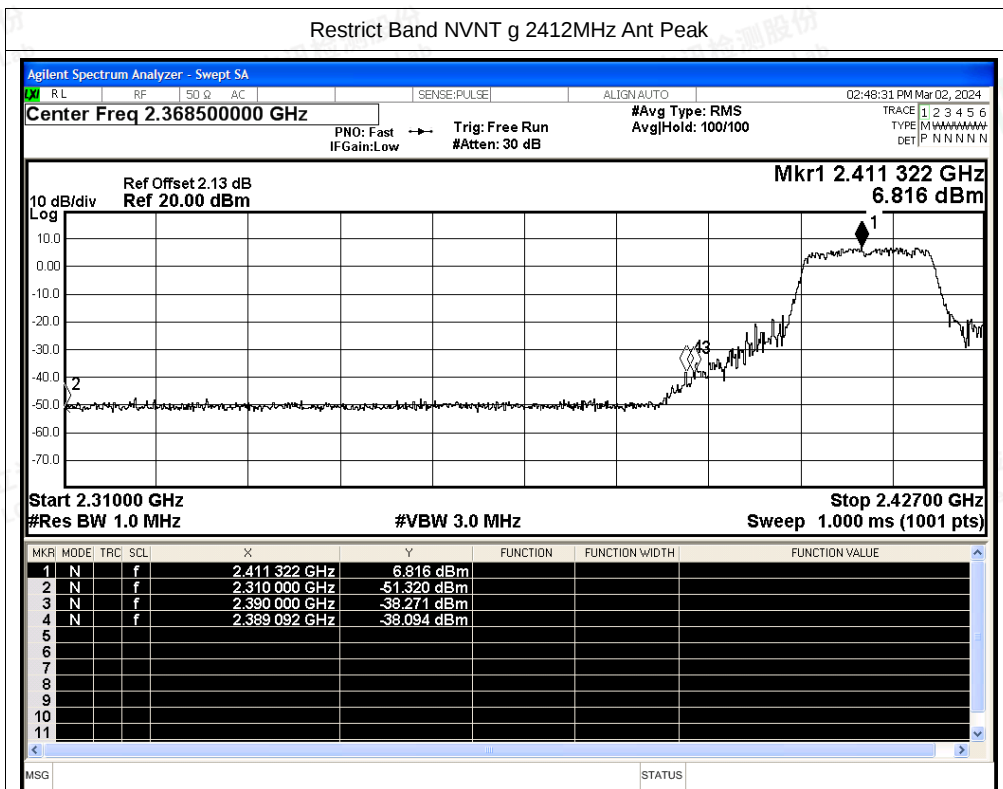


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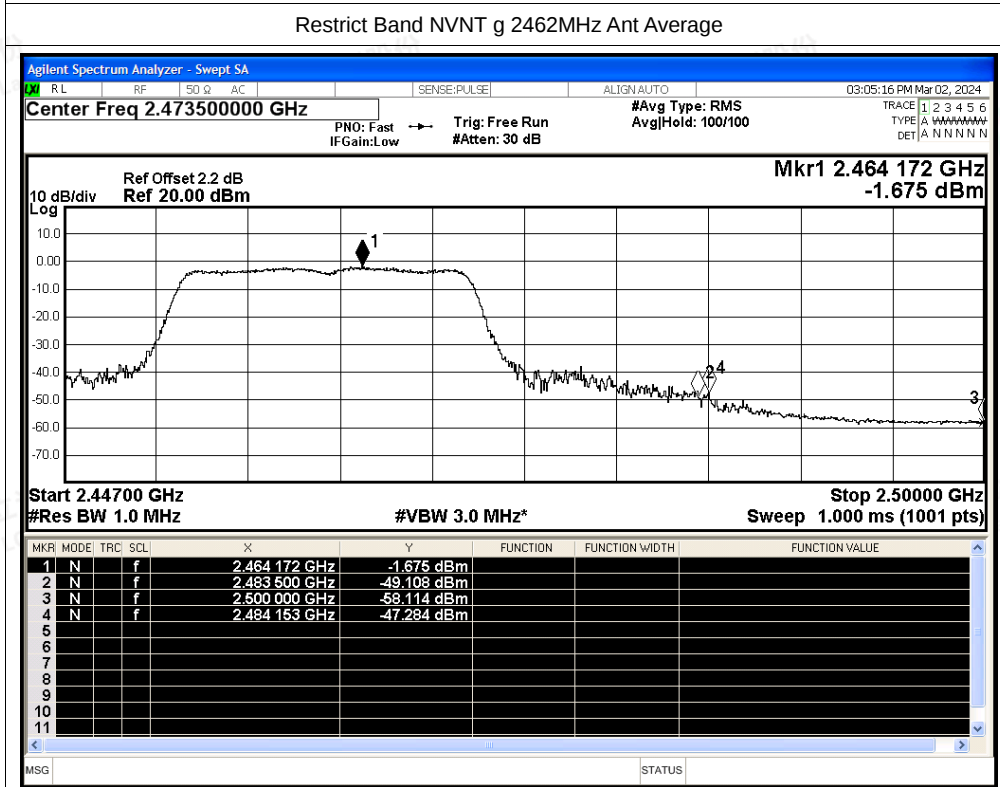
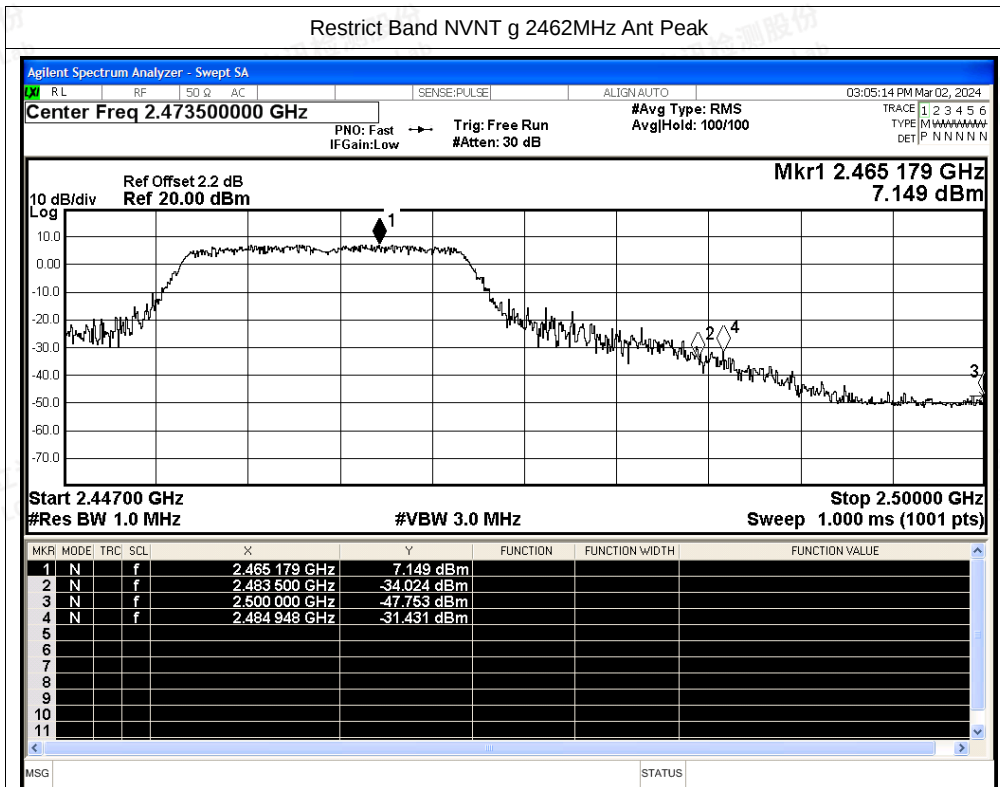


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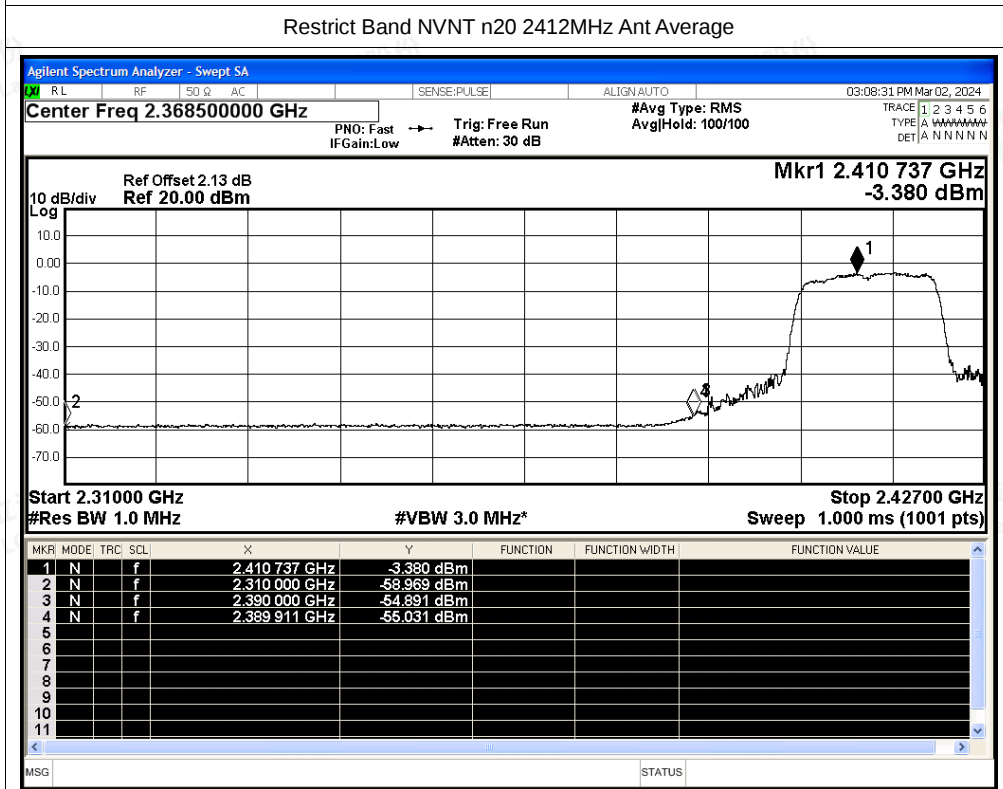
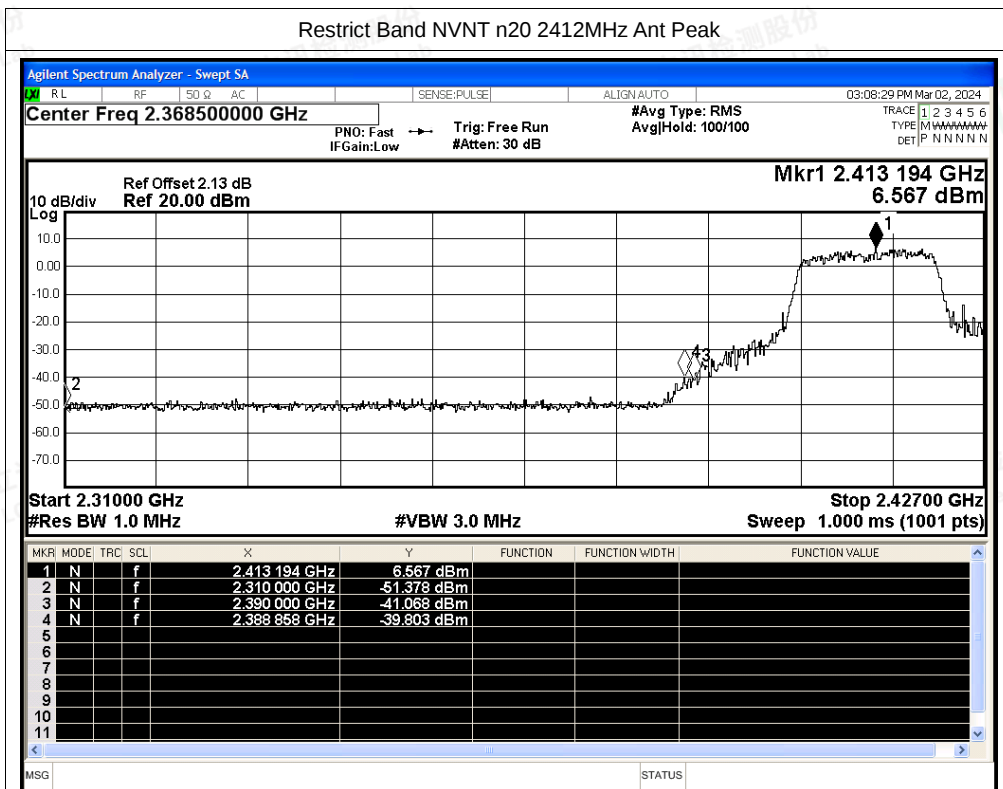


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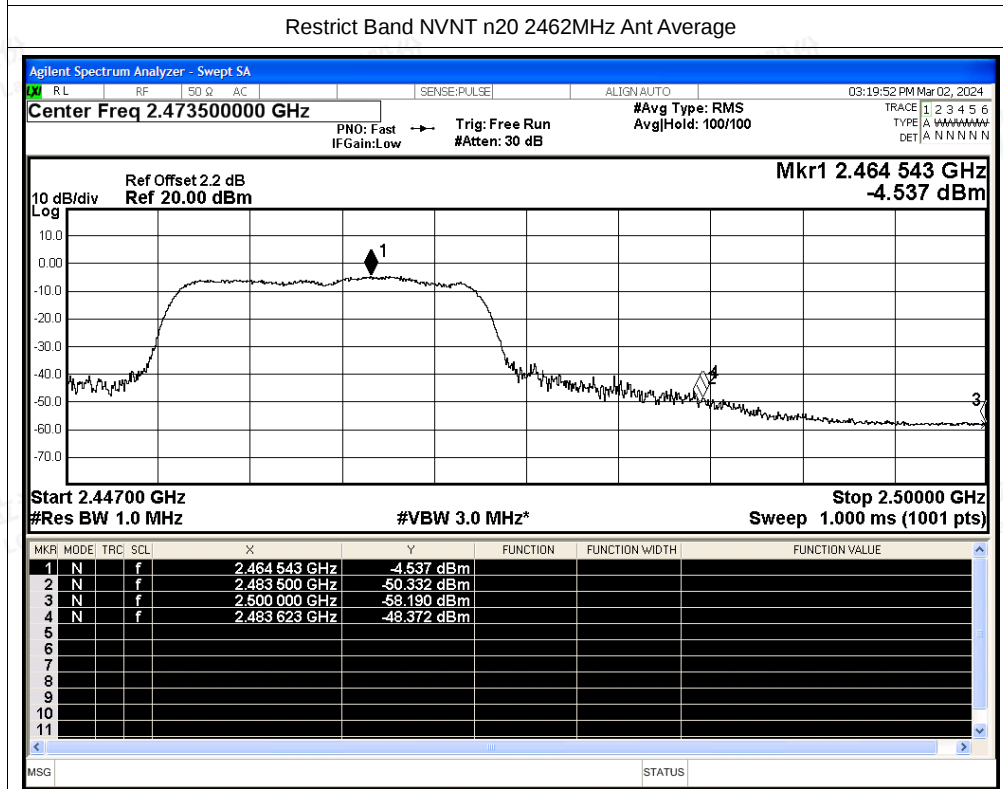
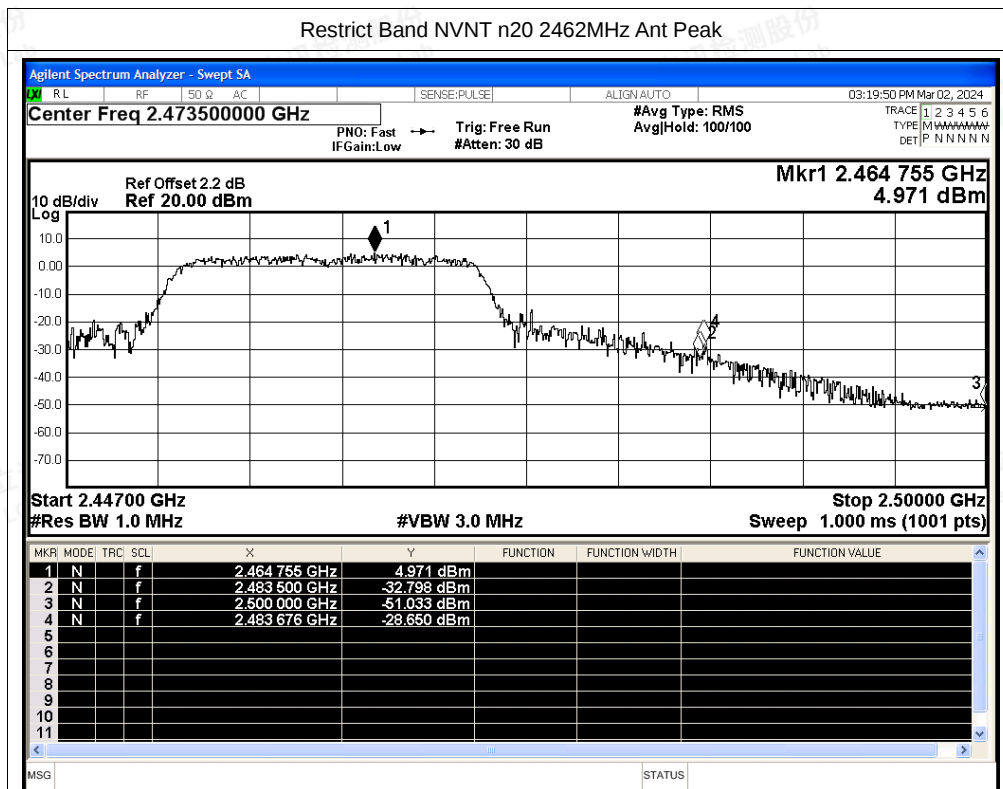


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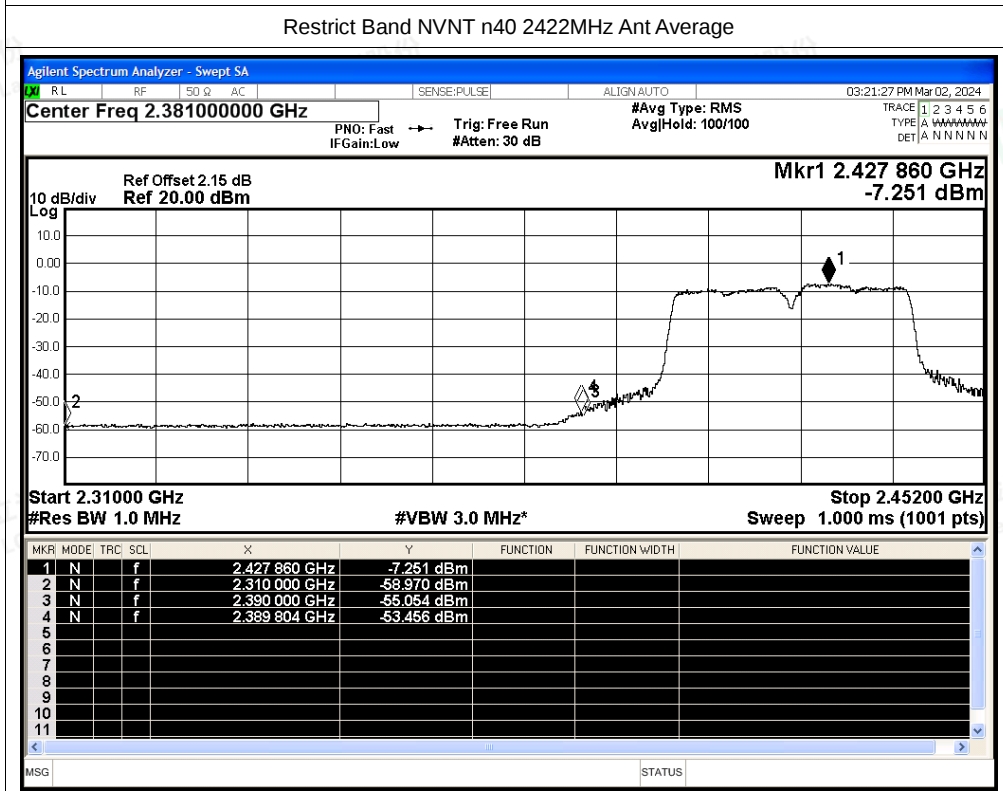
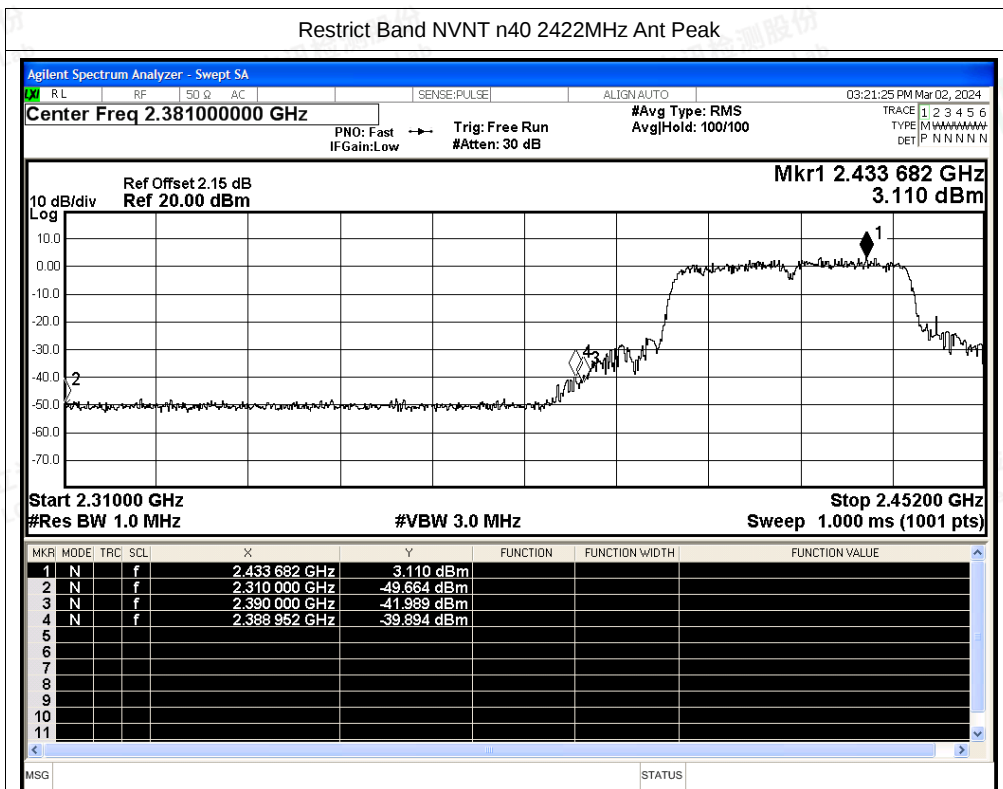


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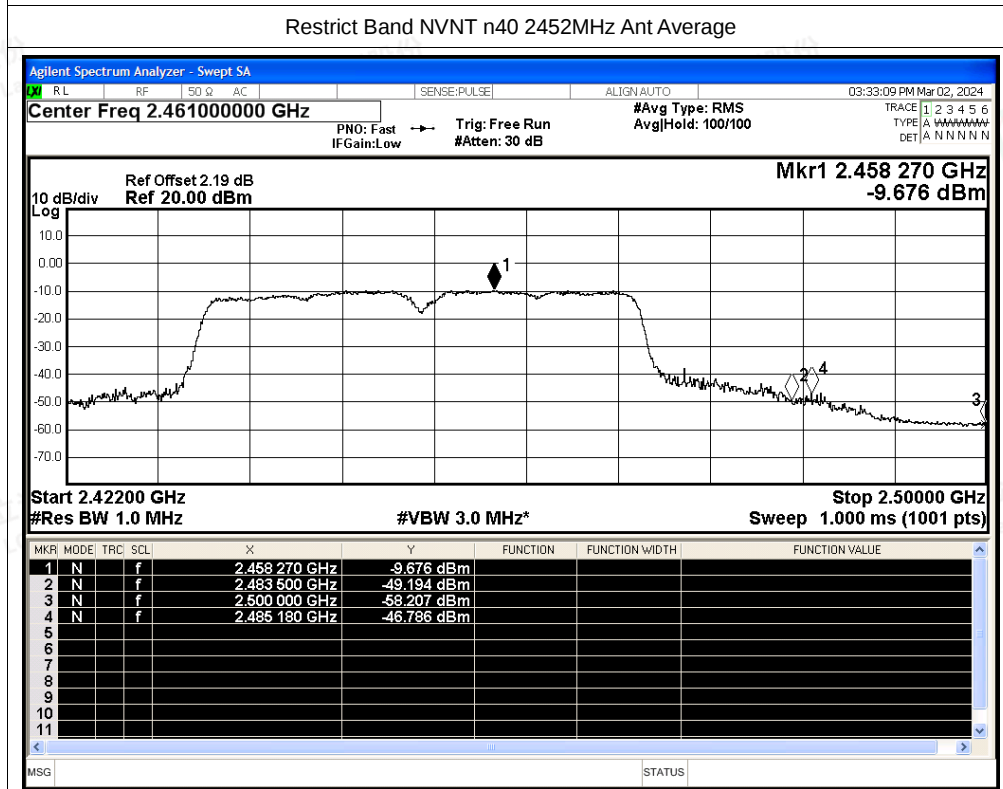
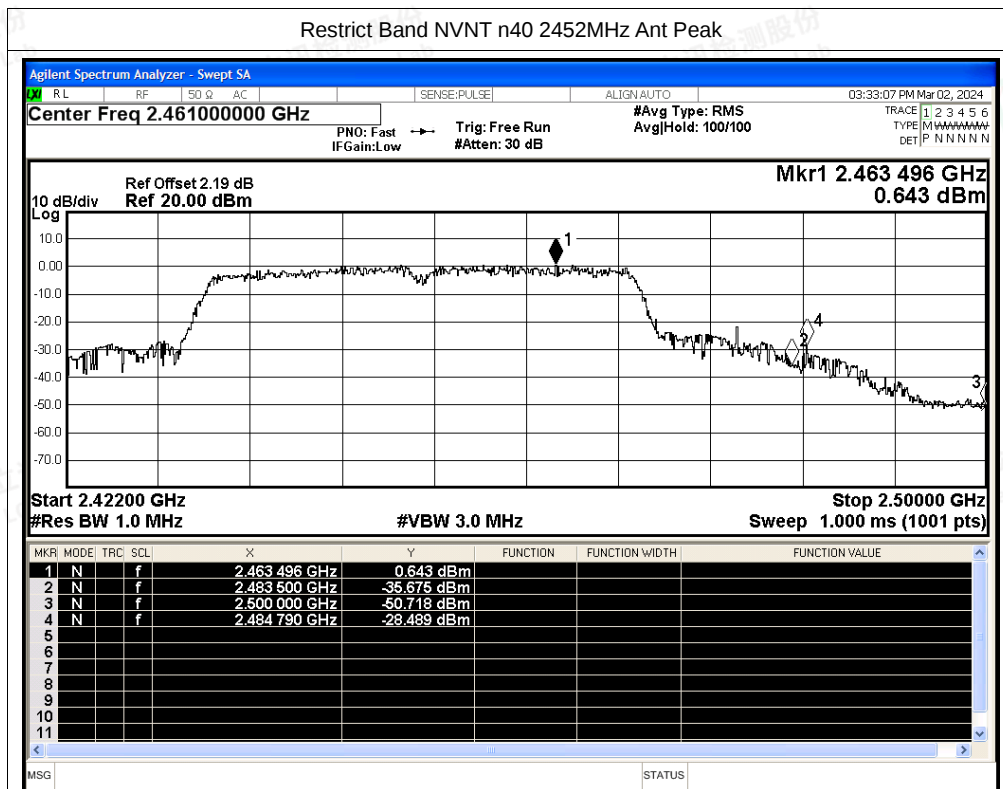


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