



Appendix A

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: LED DISPLAY

Test Model: BS-TICKL-SLV

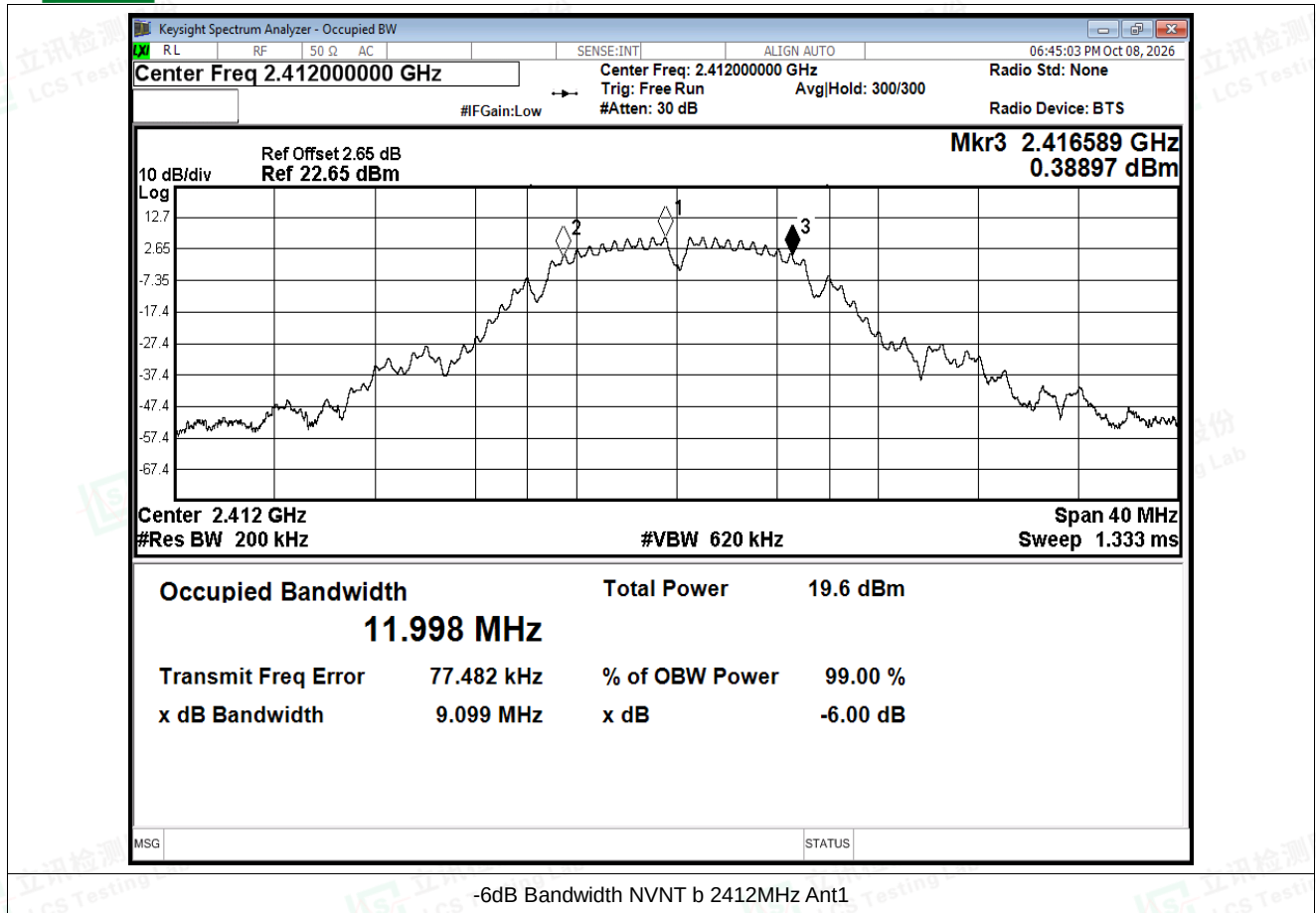
Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



A.1 -6dB Bandwidth

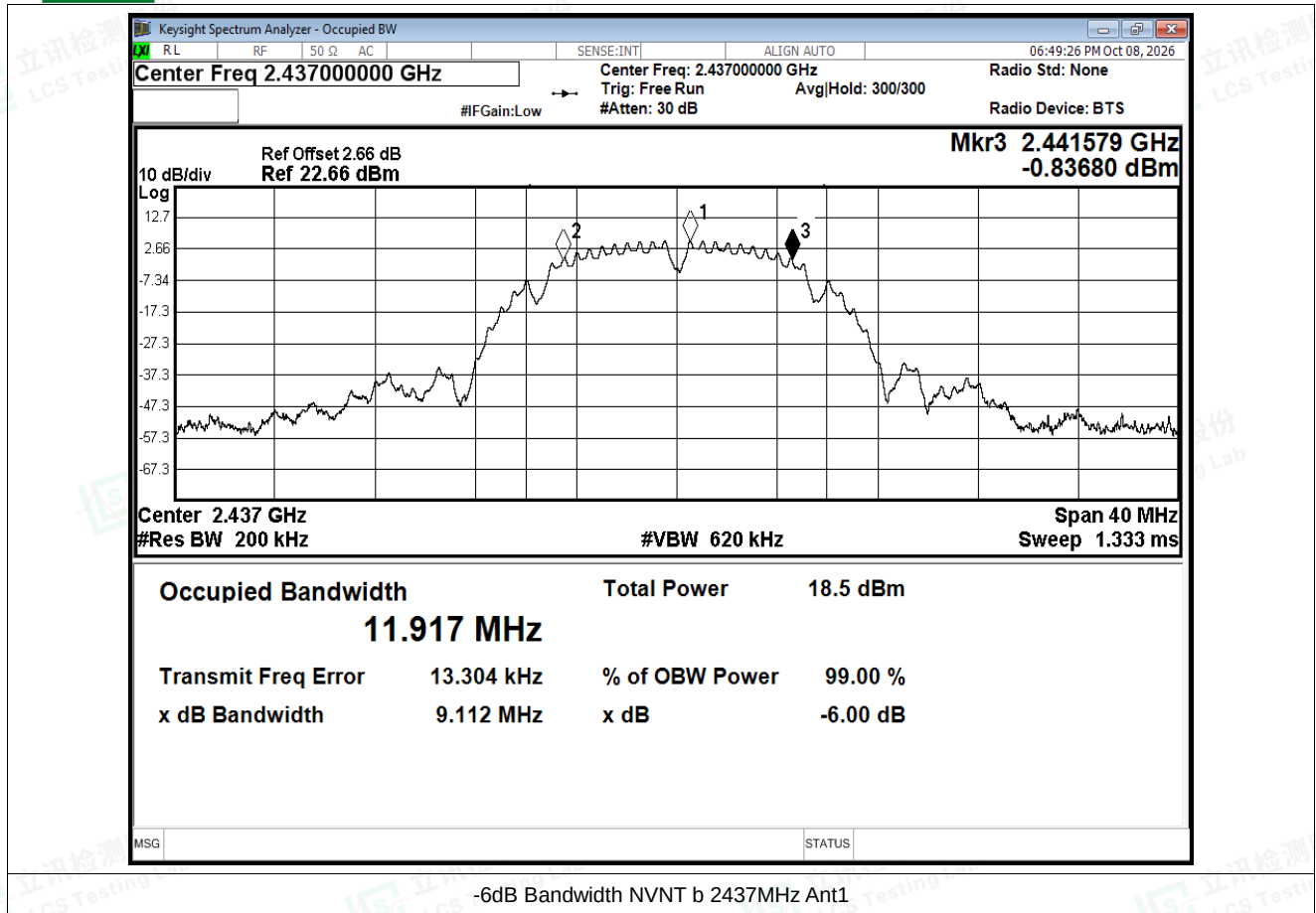
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.099	0.5	Pass
NVNT	b	2437	Ant1	9.112	0.5	Pass
NVNT	b	2462	Ant1	9.117	0.5	Pass
NVNT	g	2412	Ant1	16.28	0.5	Pass
NVNT	g	2437	Ant1	16.37	0.5	Pass
NVNT	g	2462	Ant1	16.38	0.5	Pass
NVNT	n20	2412	Ant1	17.31	0.5	Pass
NVNT	n20	2437	Ant1	17.49	0.5	Pass
NVNT	n20	2462	Ant1	17.33	0.5	Pass
NVNT	n40	2422	Ant1	35.83	0.5	Pass
NVNT	n40	2437	Ant1	35.89	0.5	Pass
NVNT	n40	2452	Ant1	35.94	0.5	Pass



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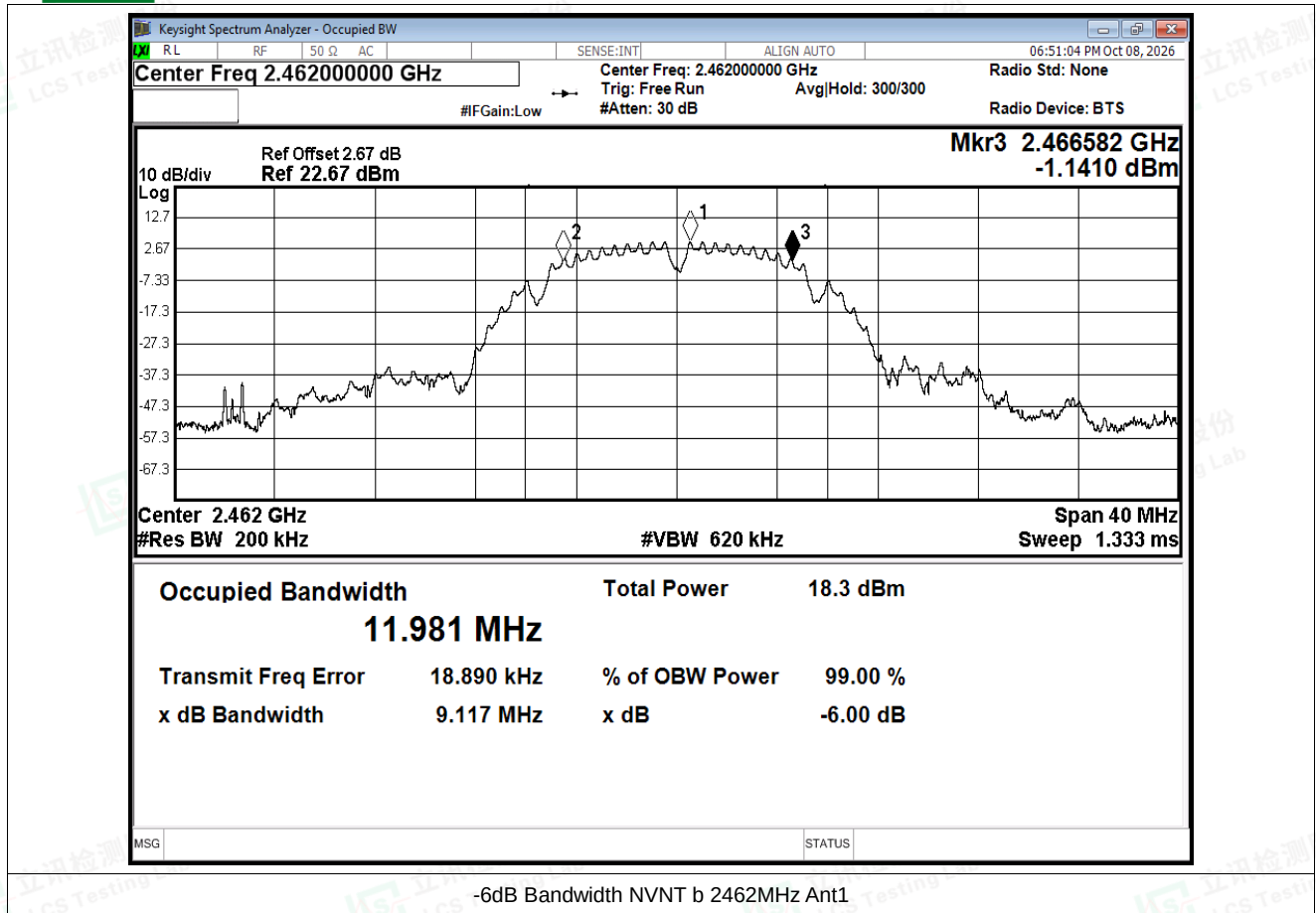
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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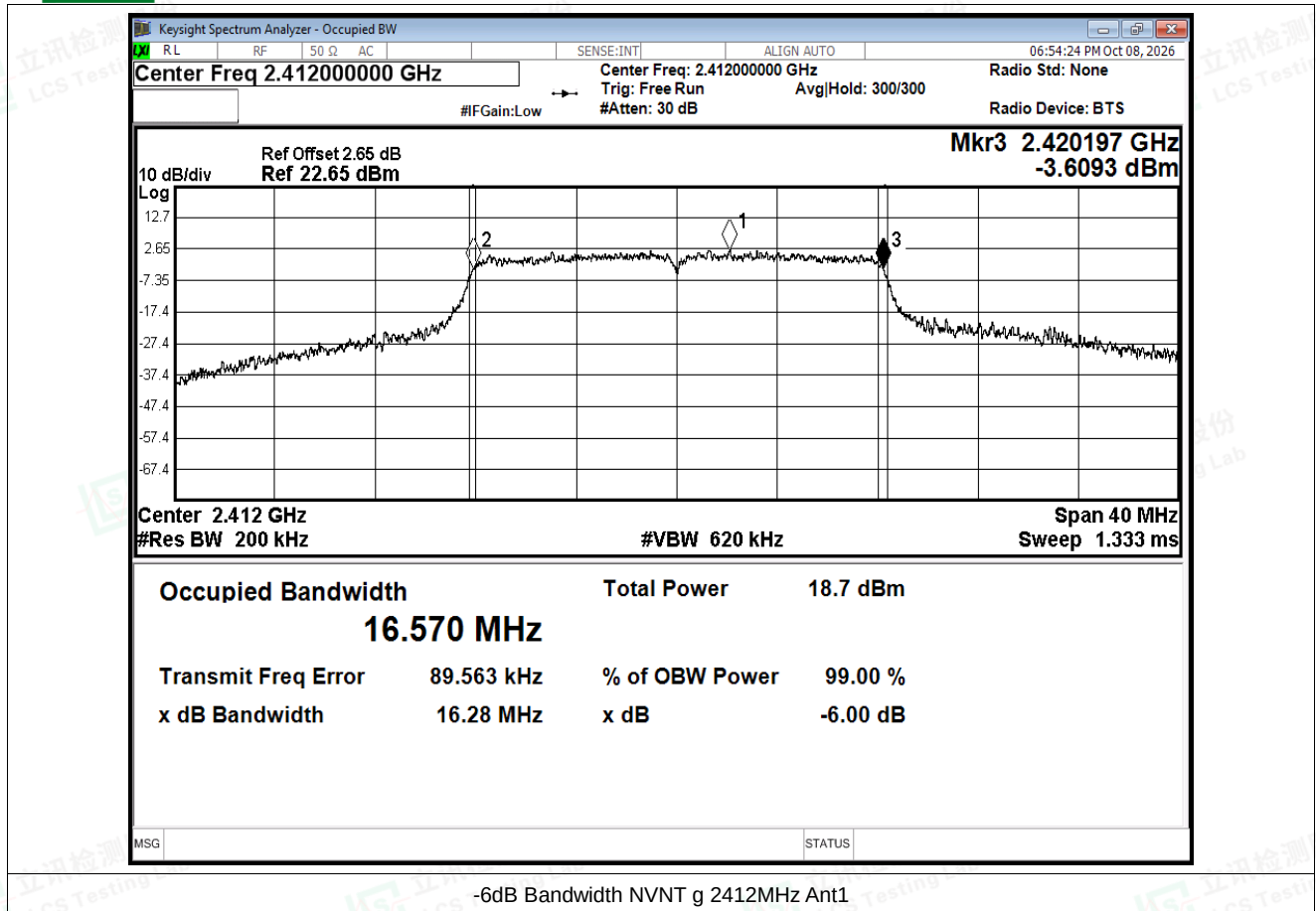
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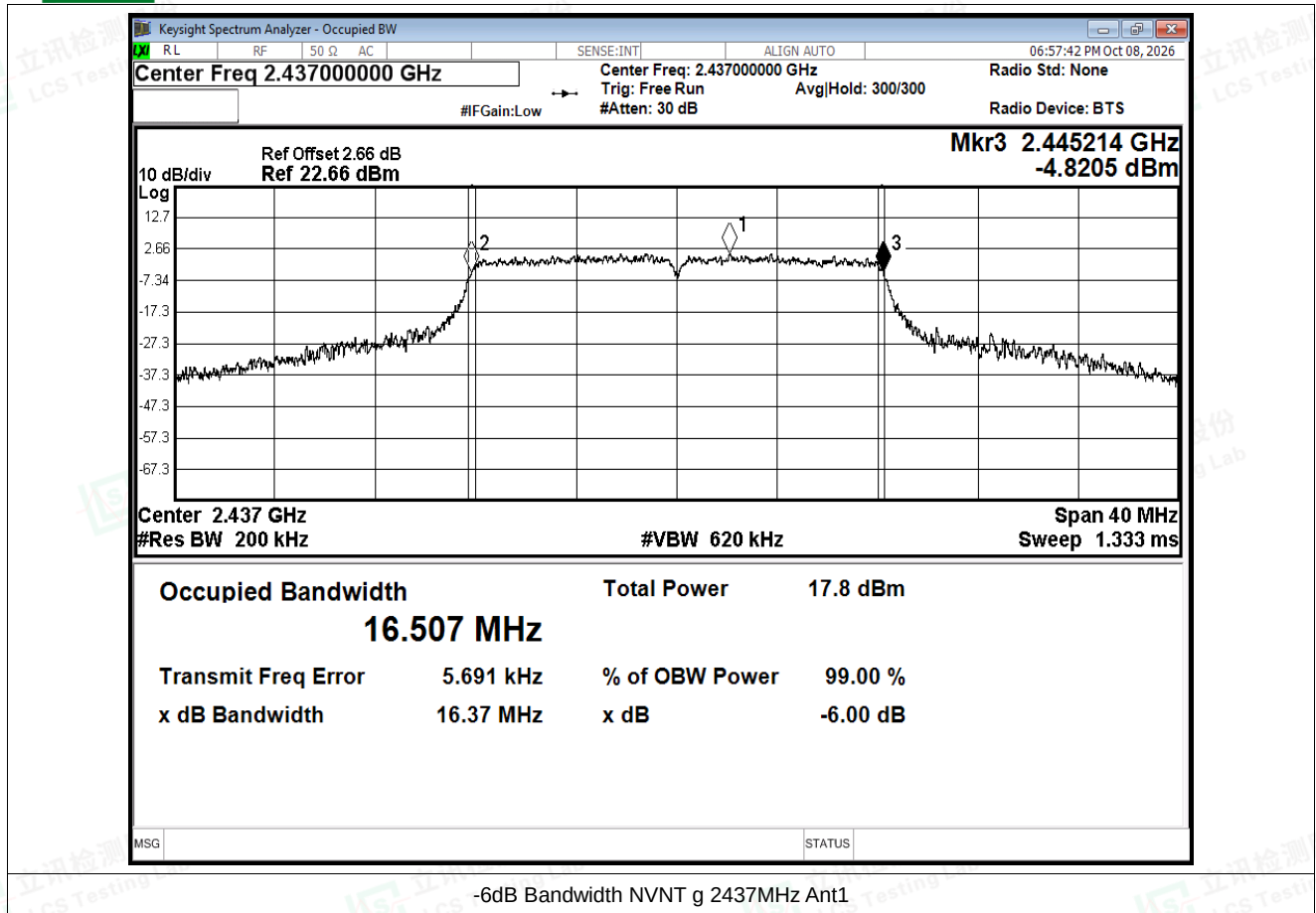
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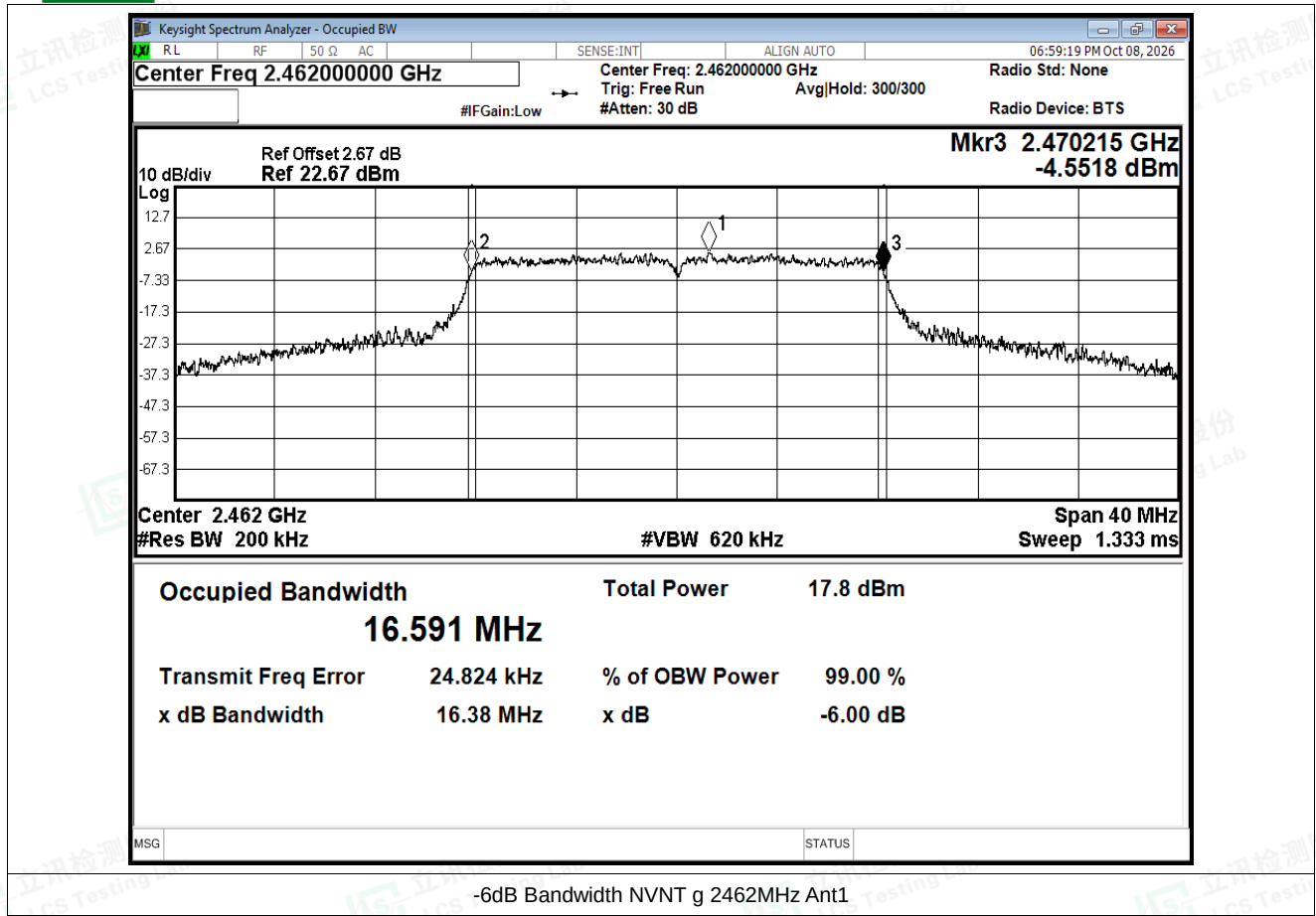
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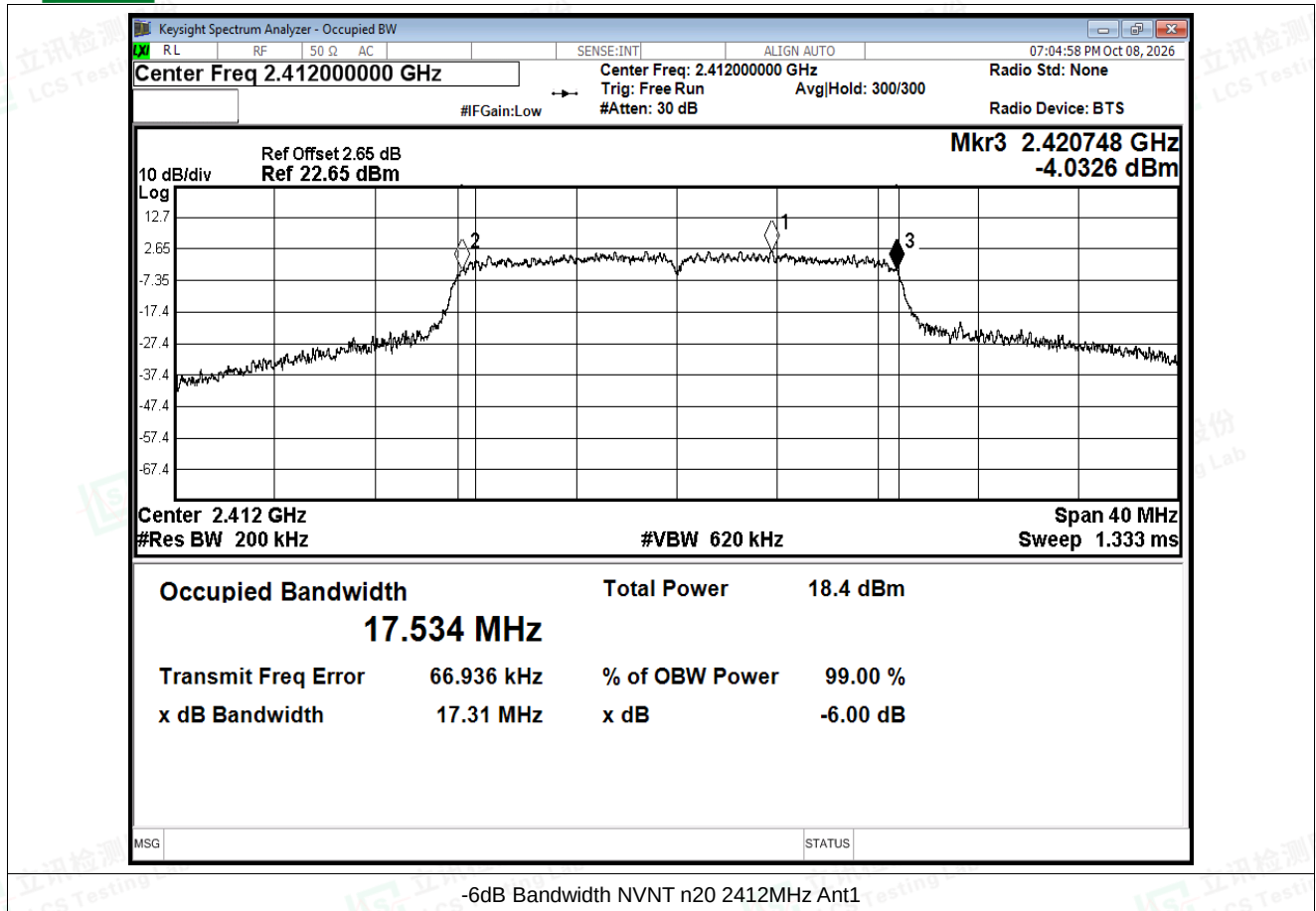
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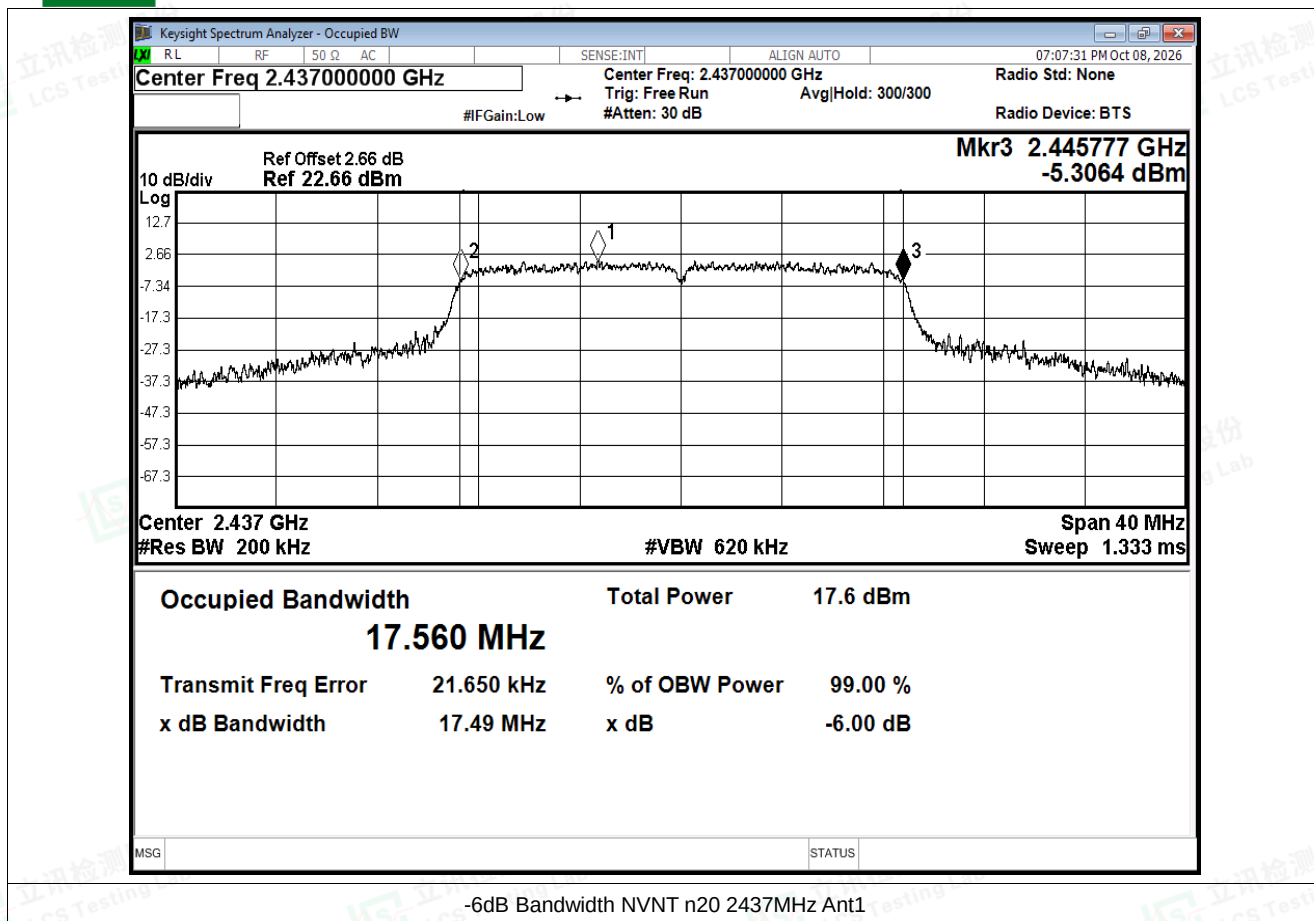
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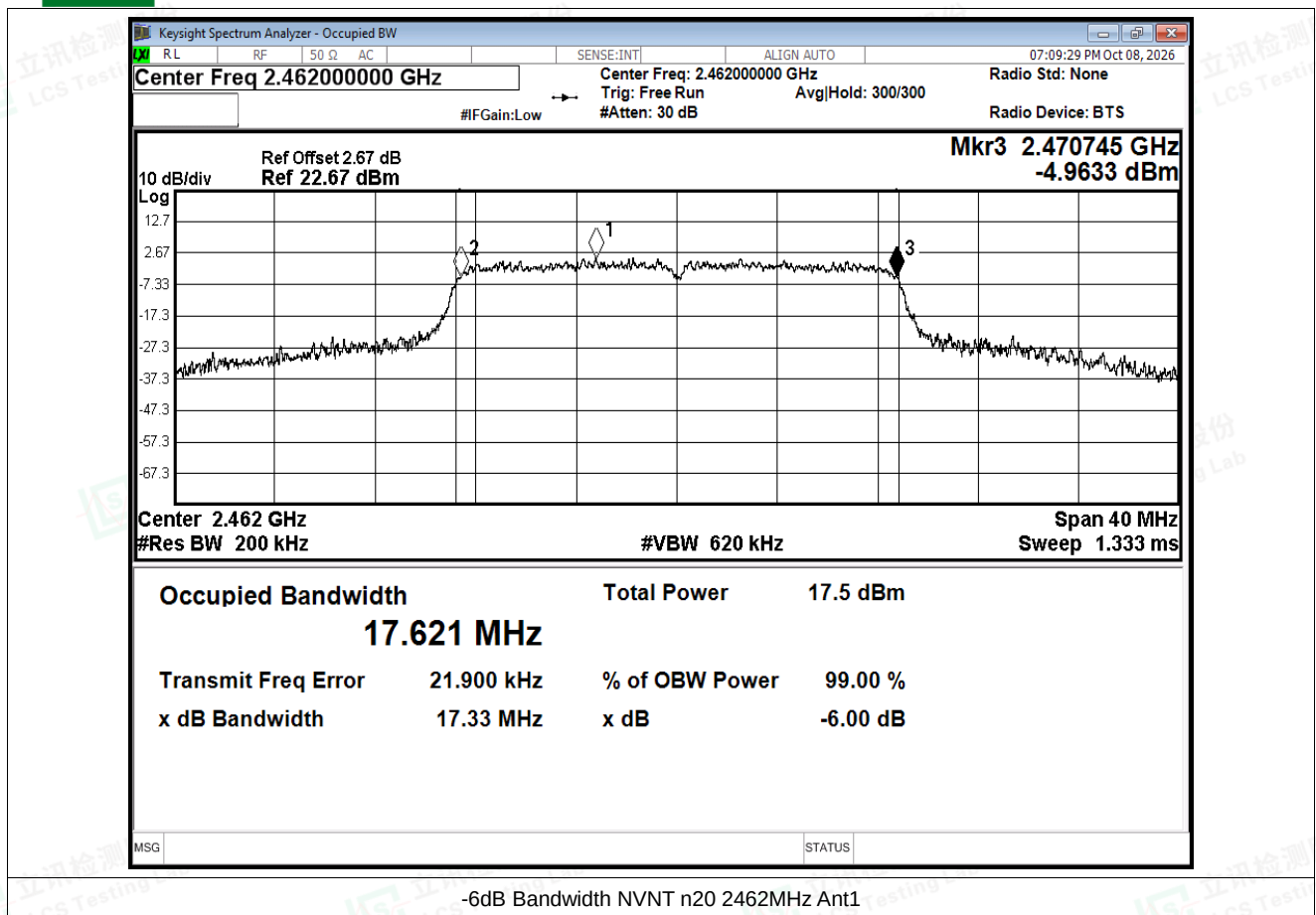
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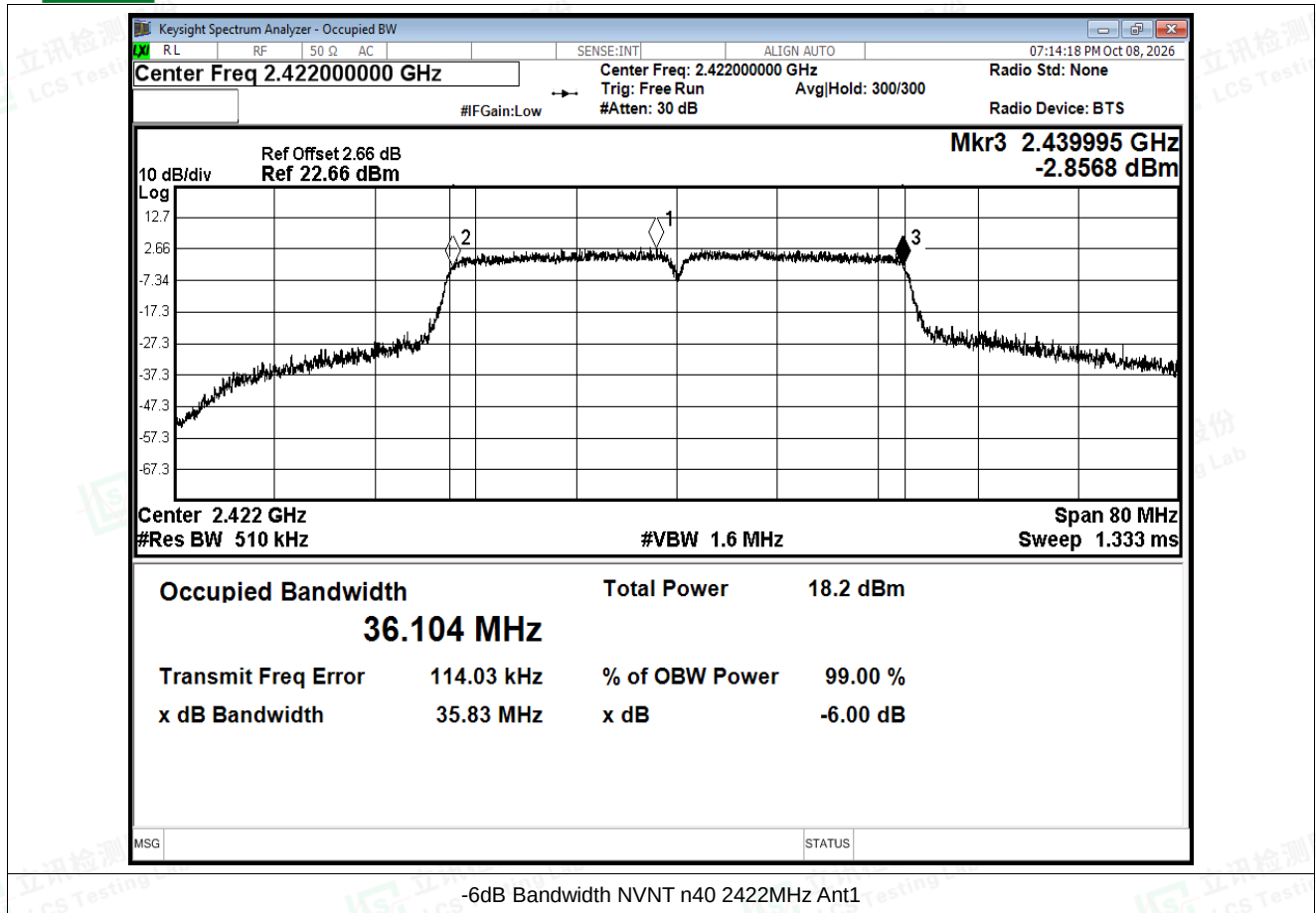
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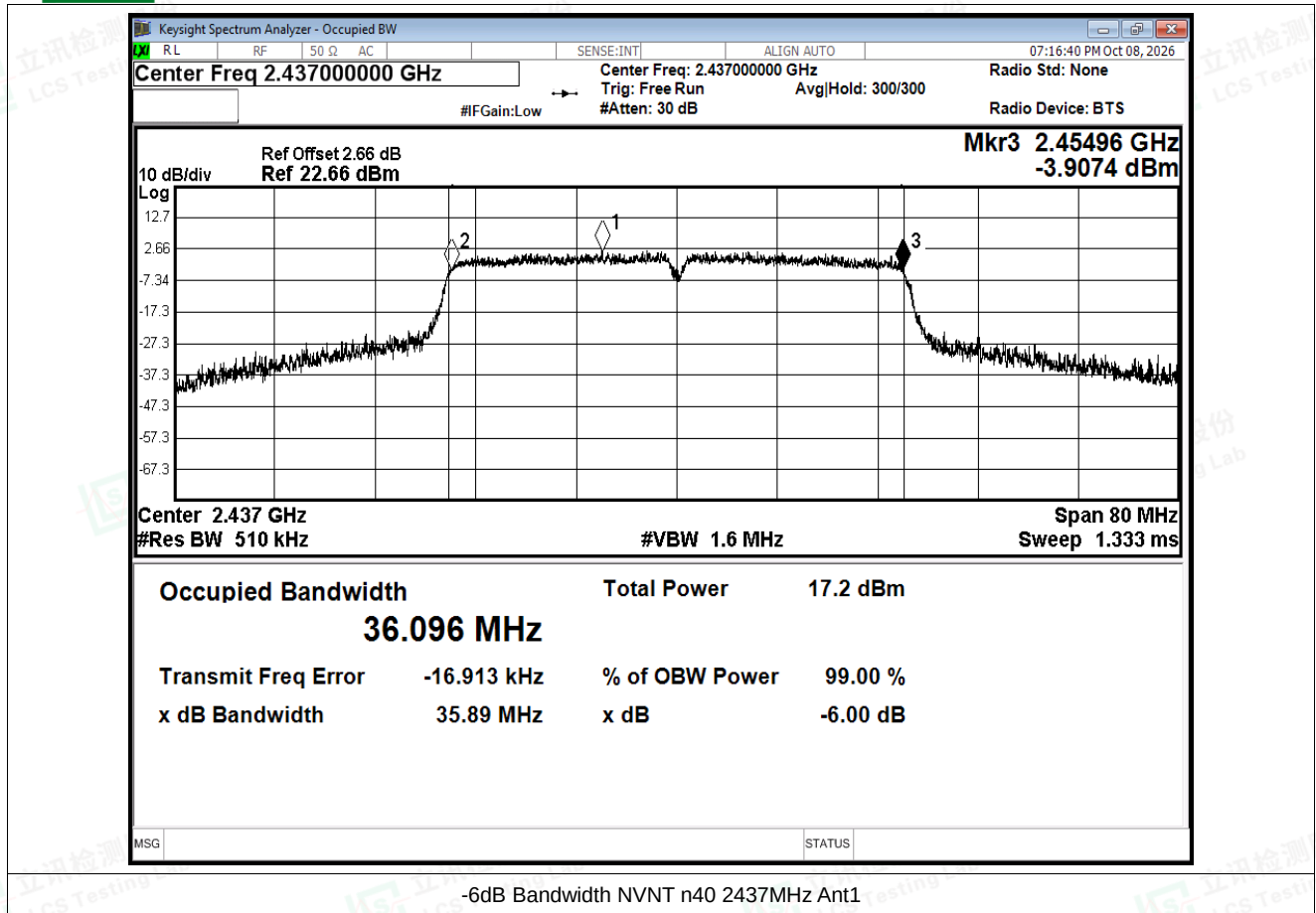
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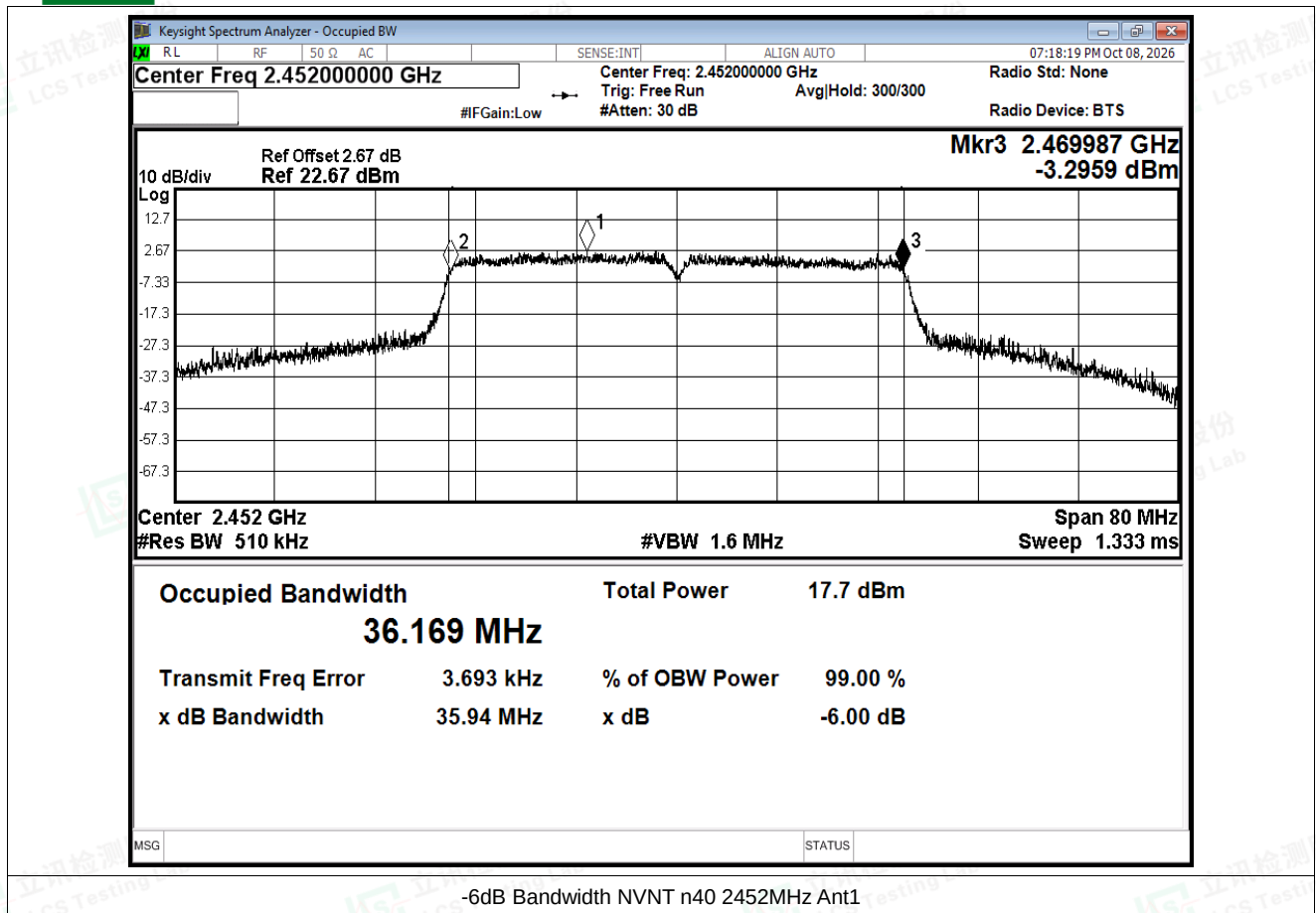
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A.2 Maximum Average Conducted Output Power

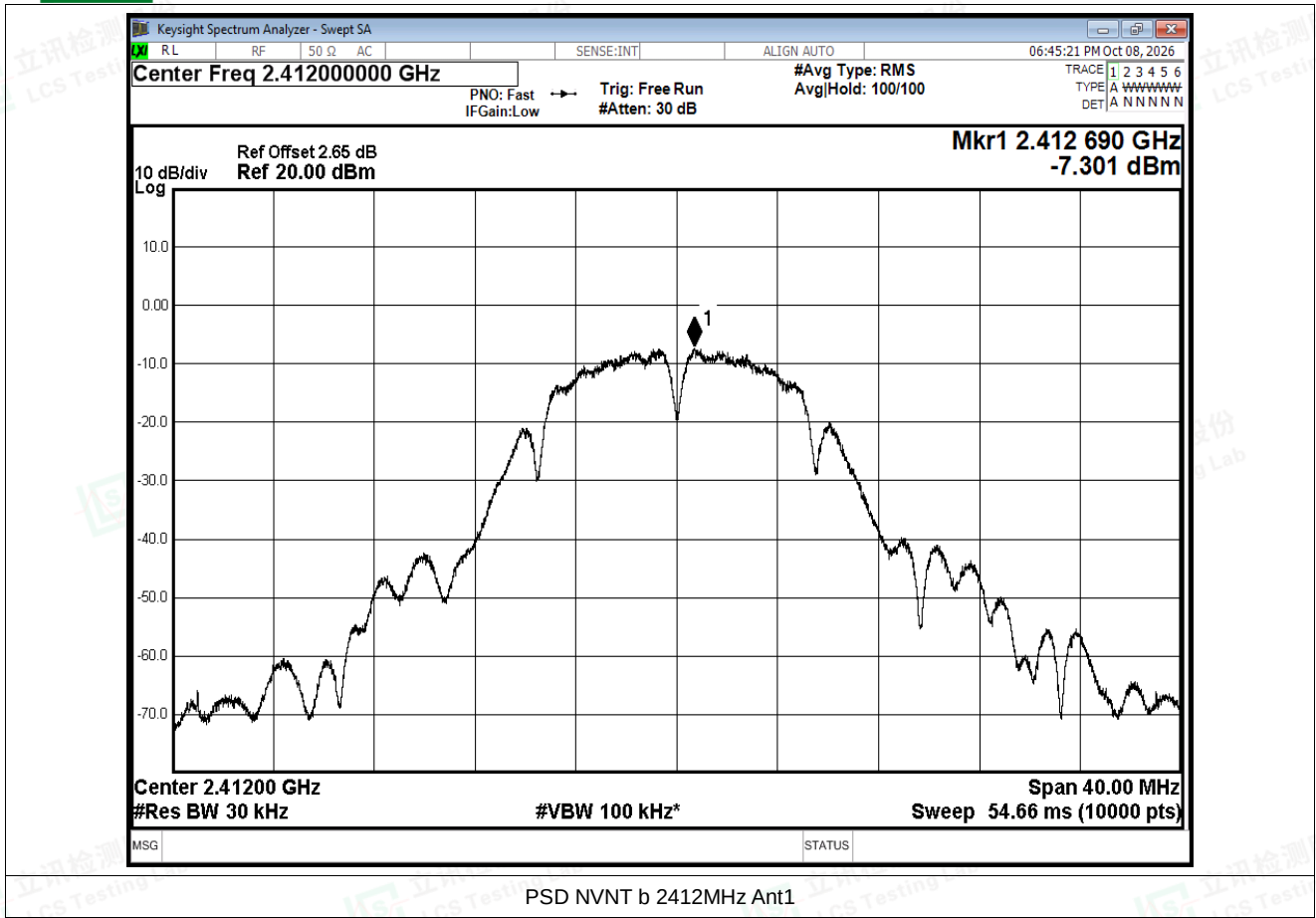
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	14.58	0.01	14.59	30	Pass
NVNT	b	2437	Ant1	13.29	0.01	13.3	30	Pass
NVNT	b	2462	Ant1	13.09	0.02	13.11	30	Pass
NVNT	g	2412	Ant1	12.39	0.1	12.49	30	Pass
NVNT	g	2437	Ant1	11.56	0.1	11.66	30	Pass
NVNT	g	2462	Ant1	11.4	0.1	11.5	30	Pass
NVNT	n20	2412	Ant1	12.02	0.12	12.14	30	Pass
NVNT	n20	2437	Ant1	11.33	0.12	11.45	30	Pass
NVNT	n20	2462	Ant1	11.16	0.12	11.28	30	Pass
NVNT	n40	2422	Ant1	11.29	0.24	11.53	30	Pass
NVNT	n40	2437	Ant1	10.34	0.24	10.58	30	Pass
NVNT	n40	2452	Ant1	10.81	0.24	11.05	30	Pass



A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-7.3	0.01	-7.29	-17.29	8	Pass
NVNT	b	2437	Ant1	-8.18	0.01	-8.17	-18.17	8	Pass
NVNT	b	2462	Ant1	-8.62	0.02	-8.6	-18.6	8	Pass
NVNT	g	2412	Ant1	-11.96	0.1	-11.86	-21.86	8	Pass
NVNT	g	2437	Ant1	-12.56	0.1	-12.46	-22.46	8	Pass
NVNT	g	2462	Ant1	-12.55	0.1	-12.45	-22.45	8	Pass
NVNT	n20	2412	Ant1	-12.61	0.12	-12.49	-22.49	8	Pass
NVNT	n20	2437	Ant1	-13.78	0.12	-13.66	-23.66	8	Pass
NVNT	n20	2462	Ant1	-13.7	0.12	-13.58	-23.58	8	Pass
NVNT	n40	2422	Ant1	-16.06	0.24	-15.82	-25.82	8	Pass
NVNT	n40	2437	Ant1	-17.39	0.24	-17.15	-27.15	8	Pass
NVNT	n40	2452	Ant1	-16.65	0.24	-16.41	-26.41	8	Pass

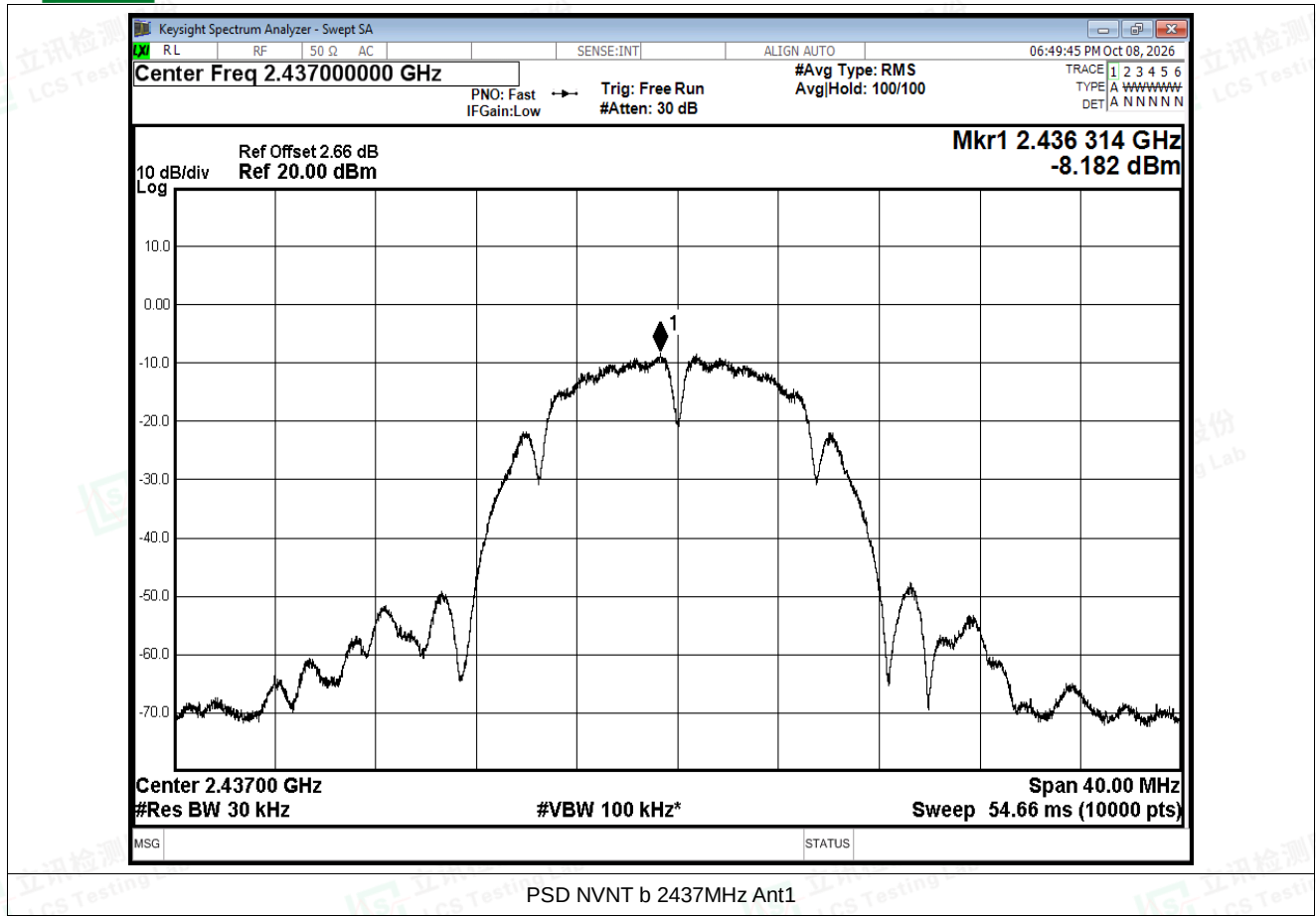
Note :Result[dBm/3kHz]=Result[dBm/30kHz]+10*Log(3/30)

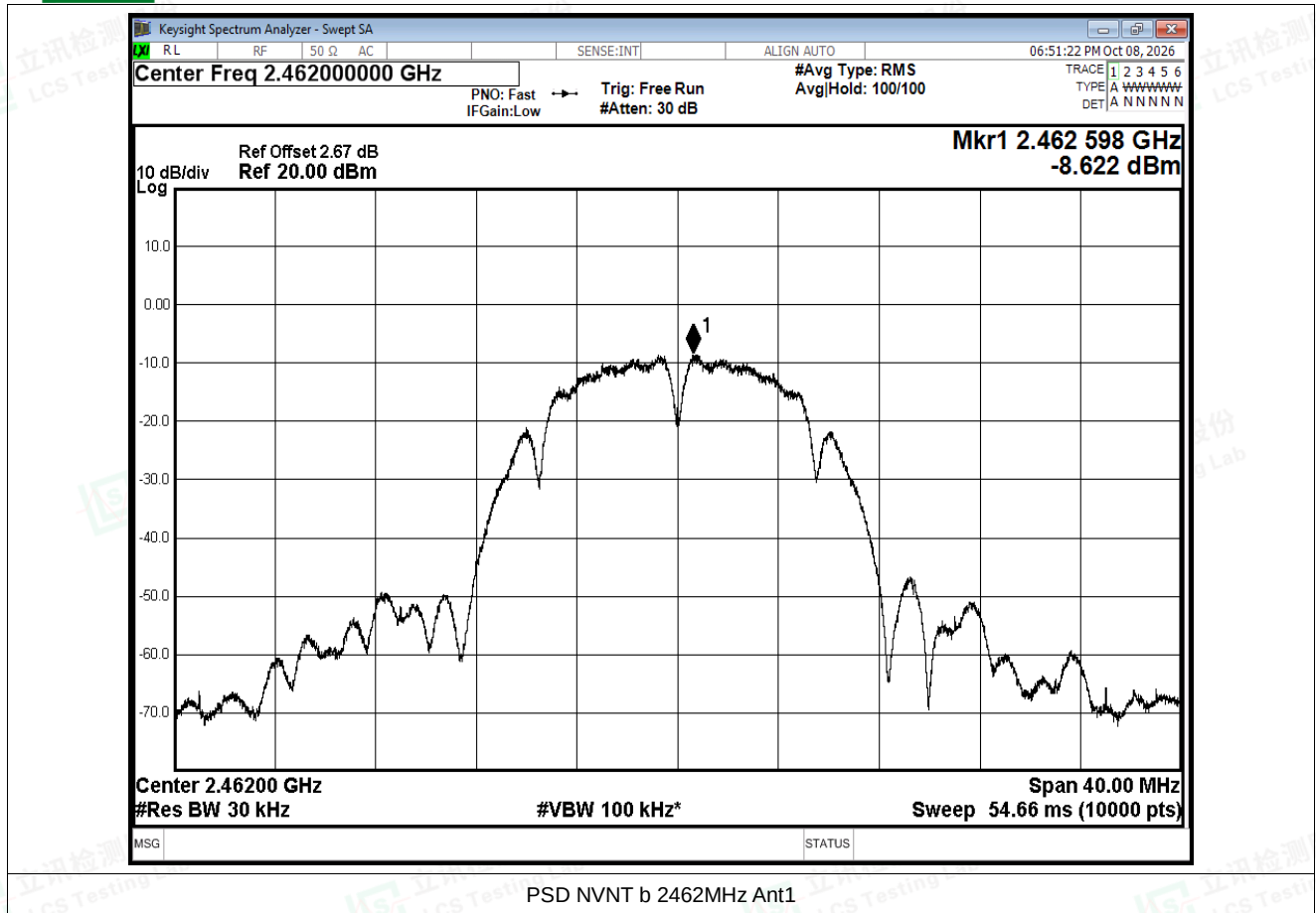


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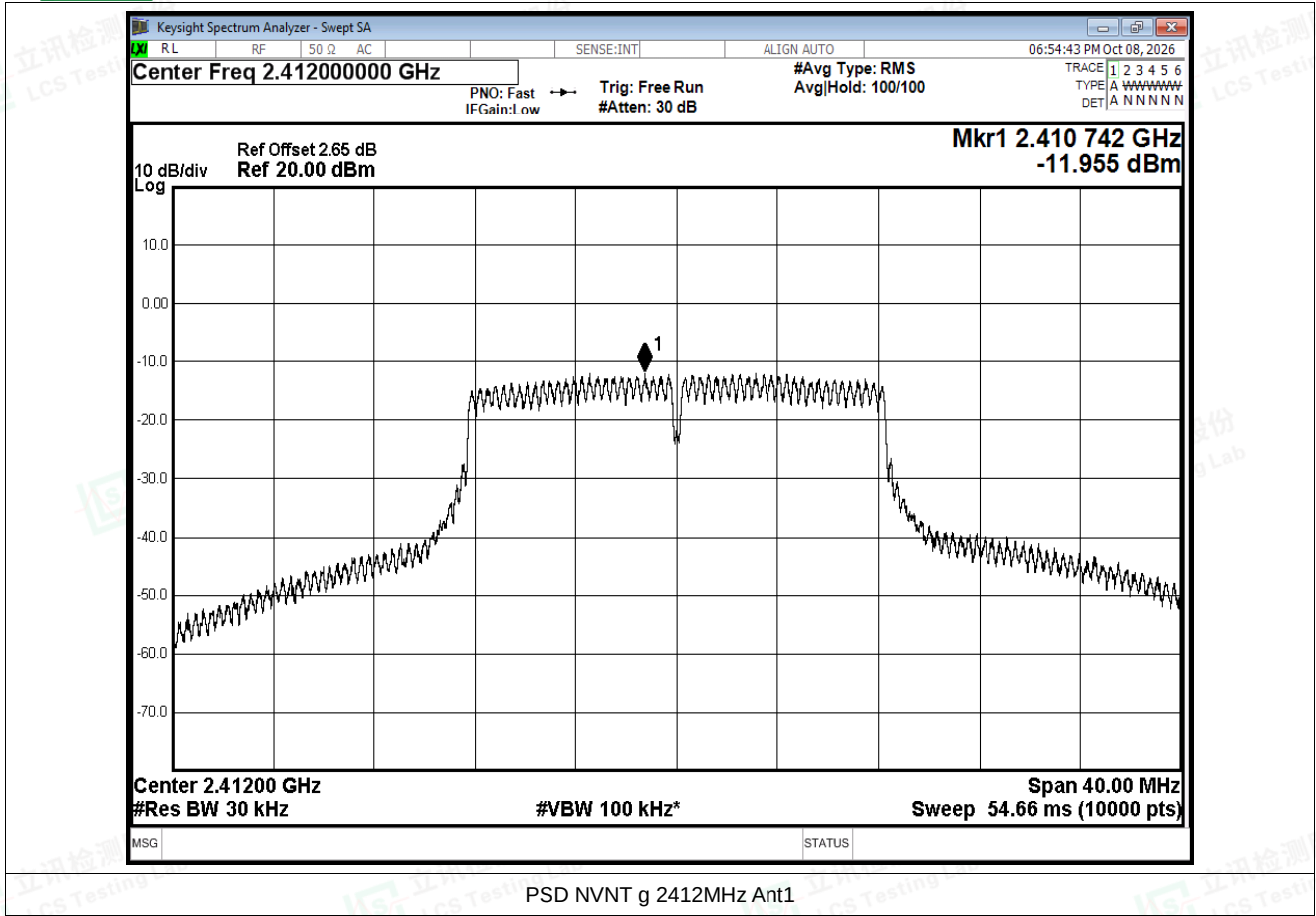




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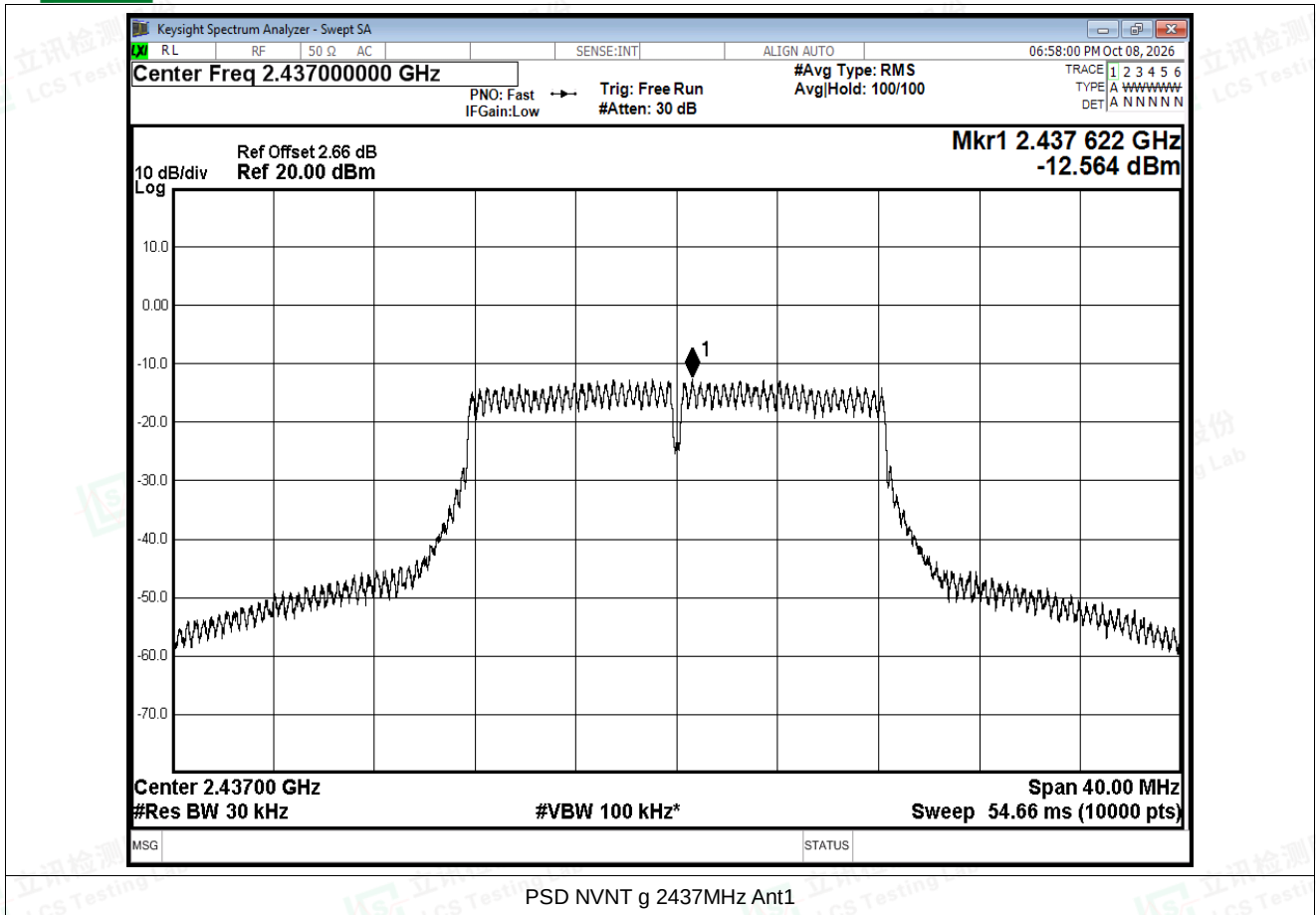
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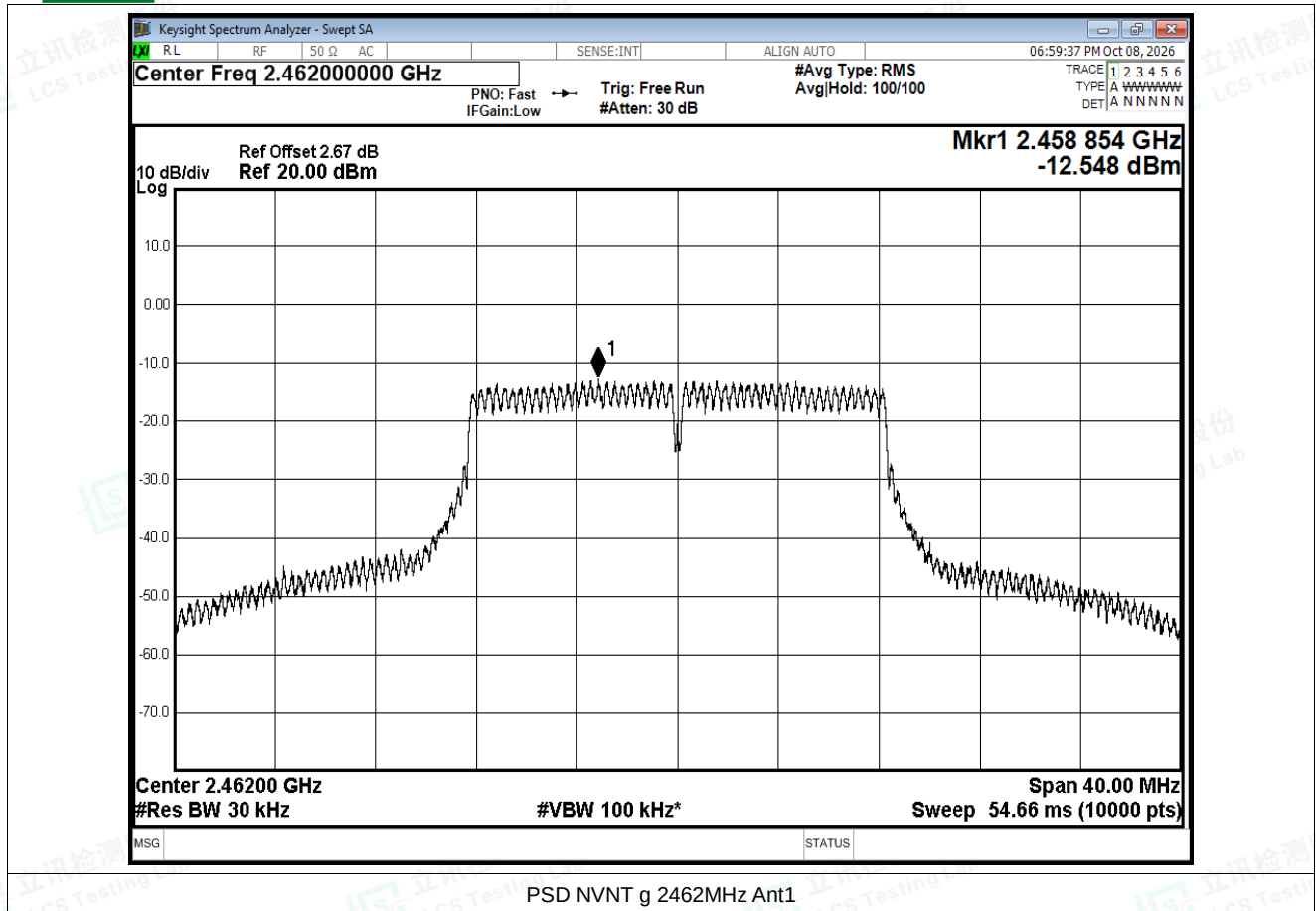
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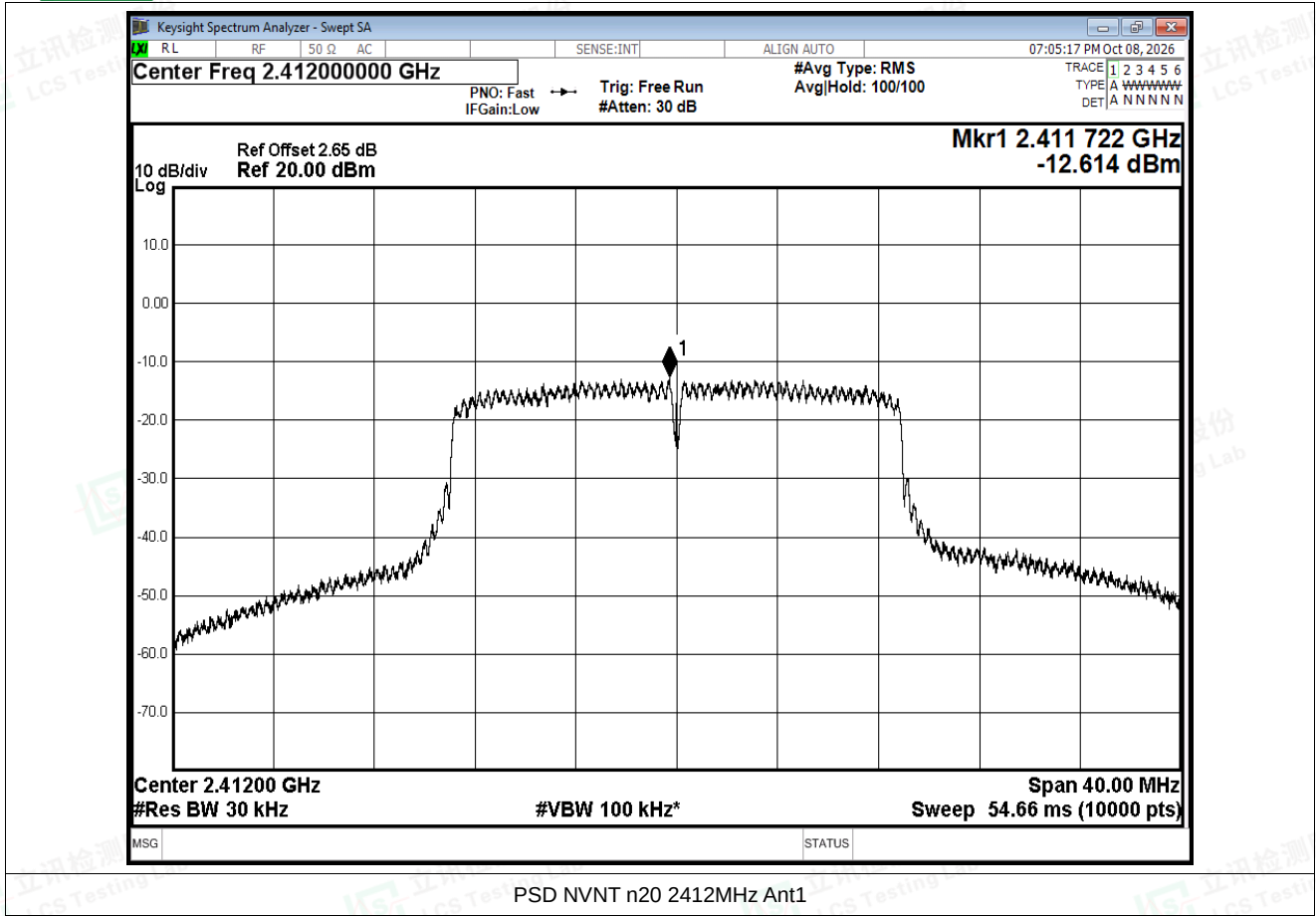
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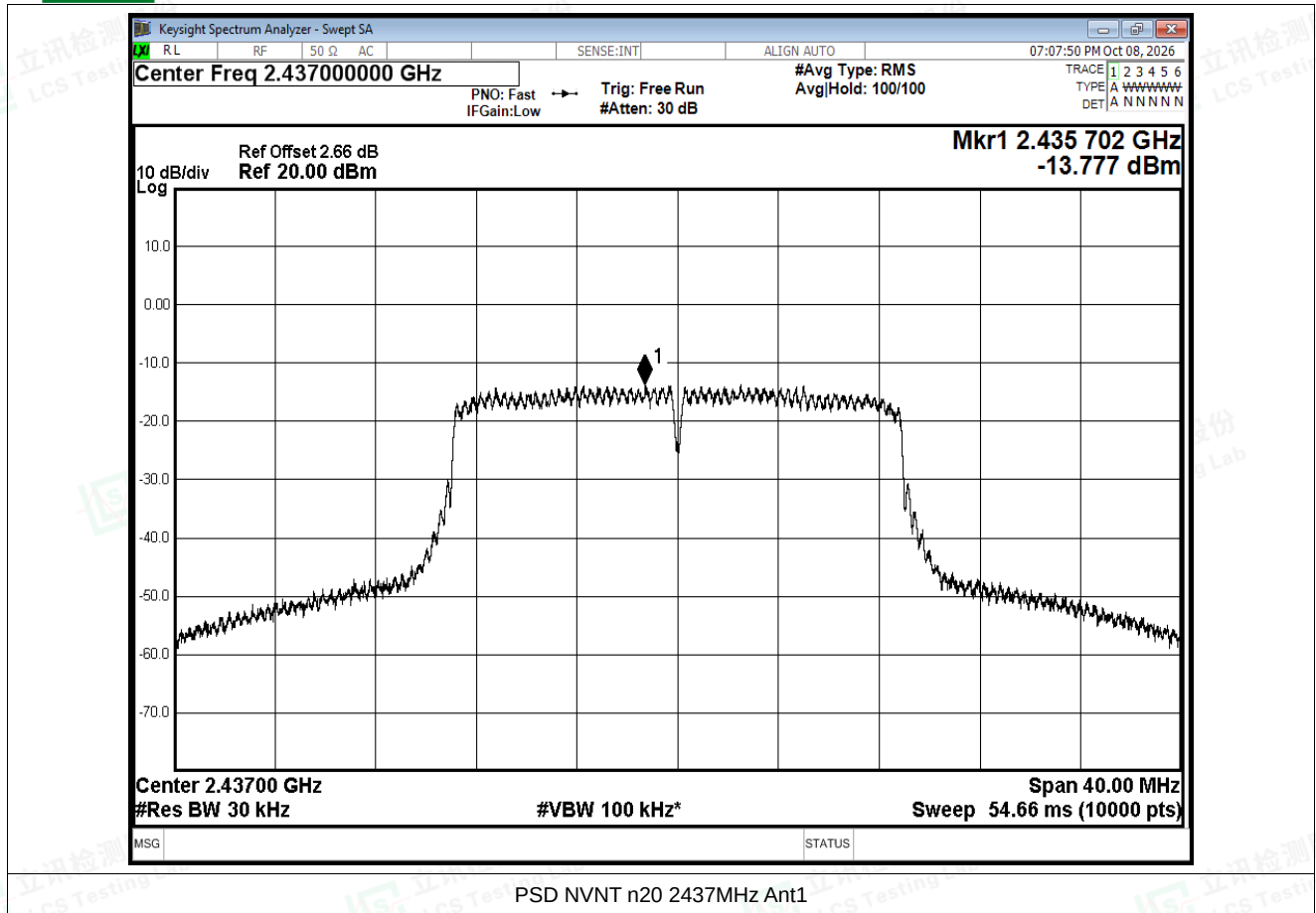
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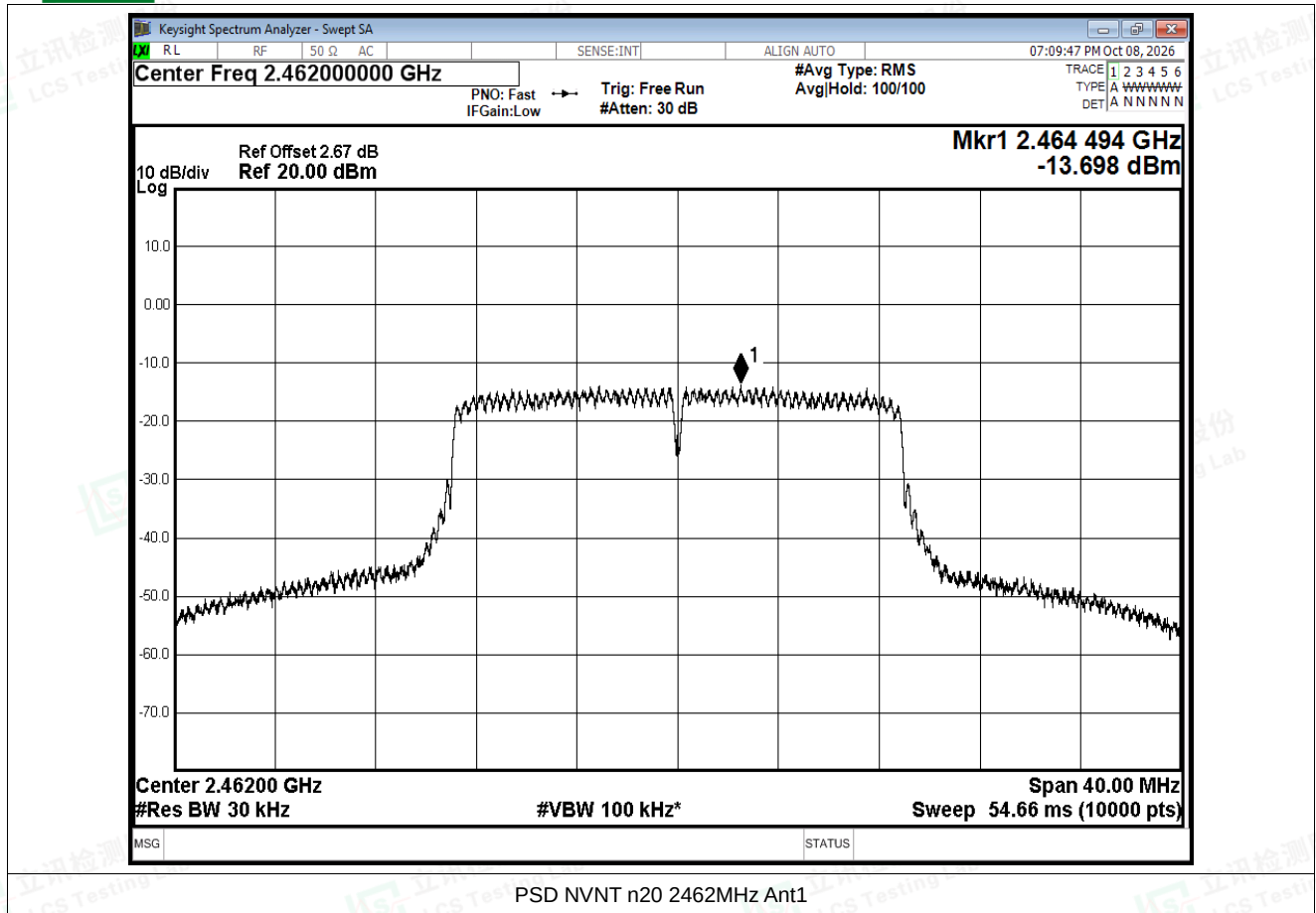
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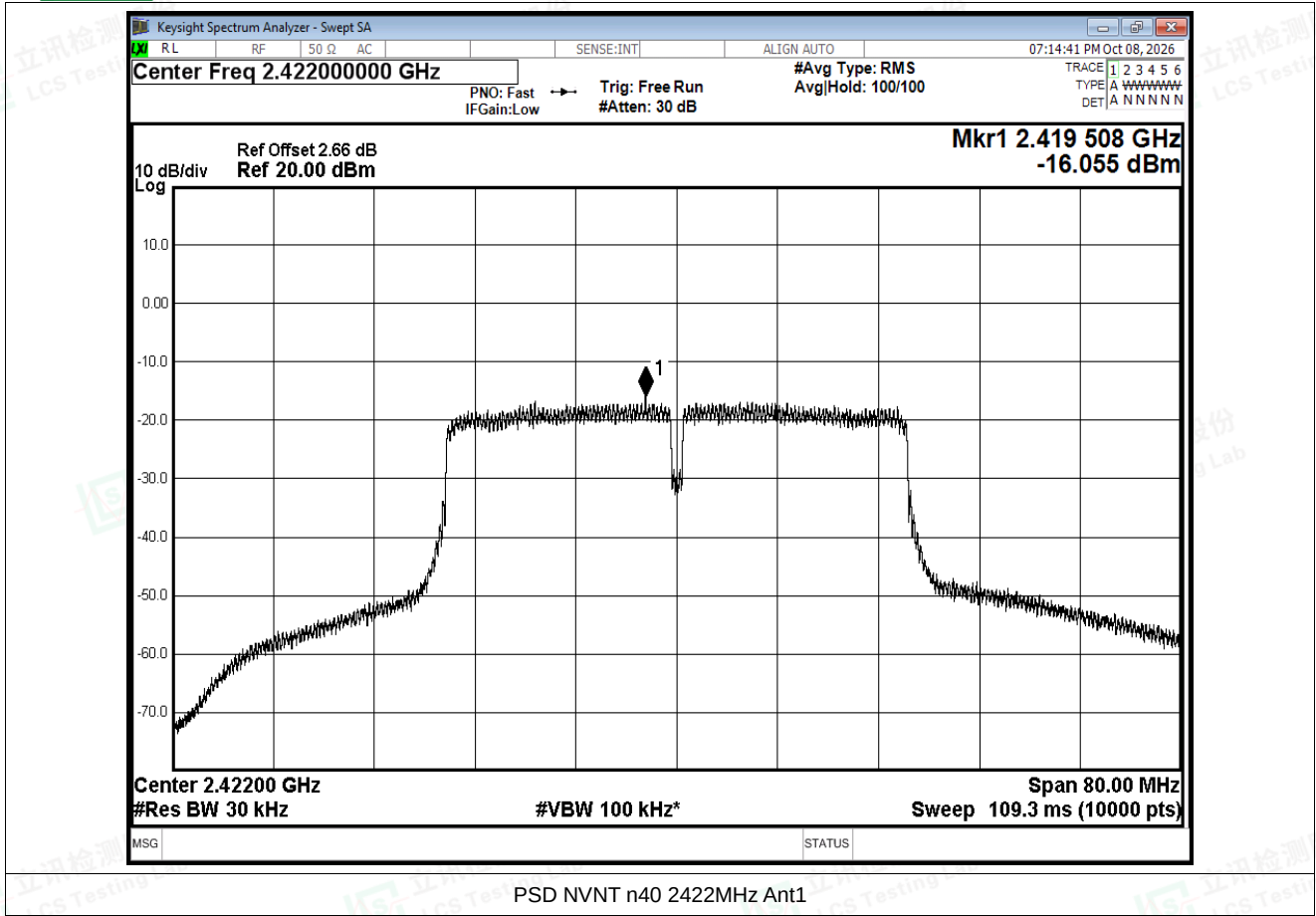
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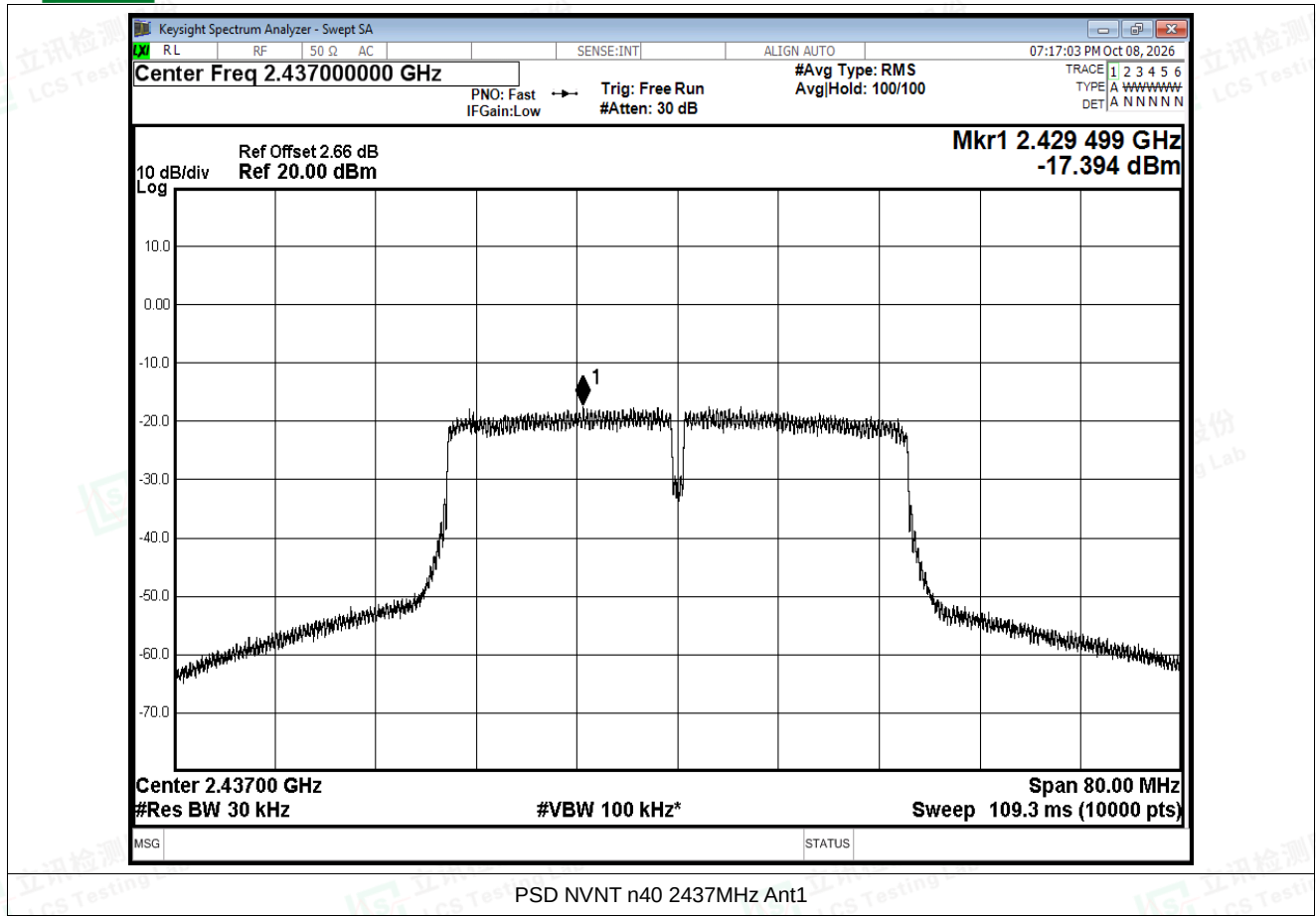
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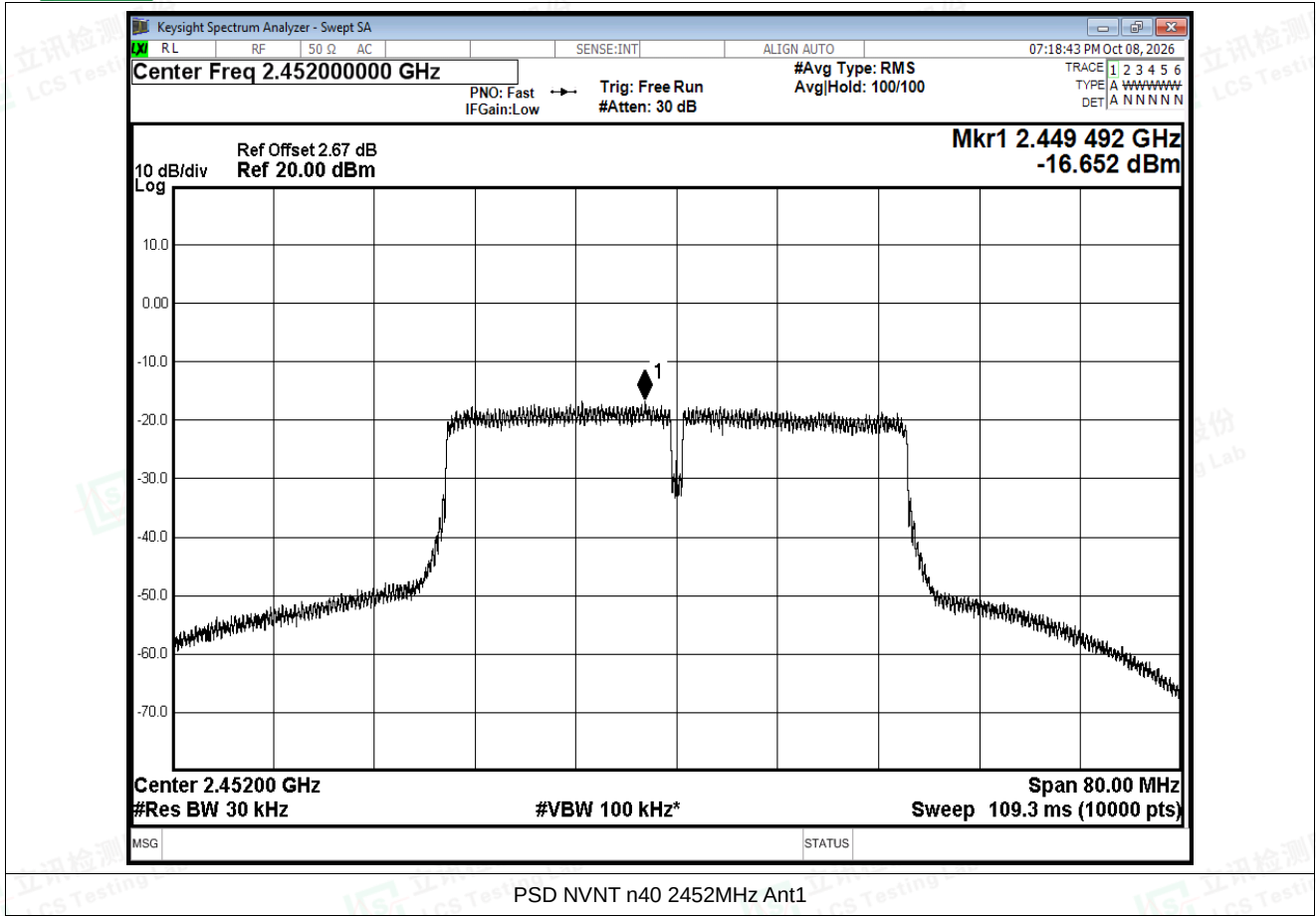
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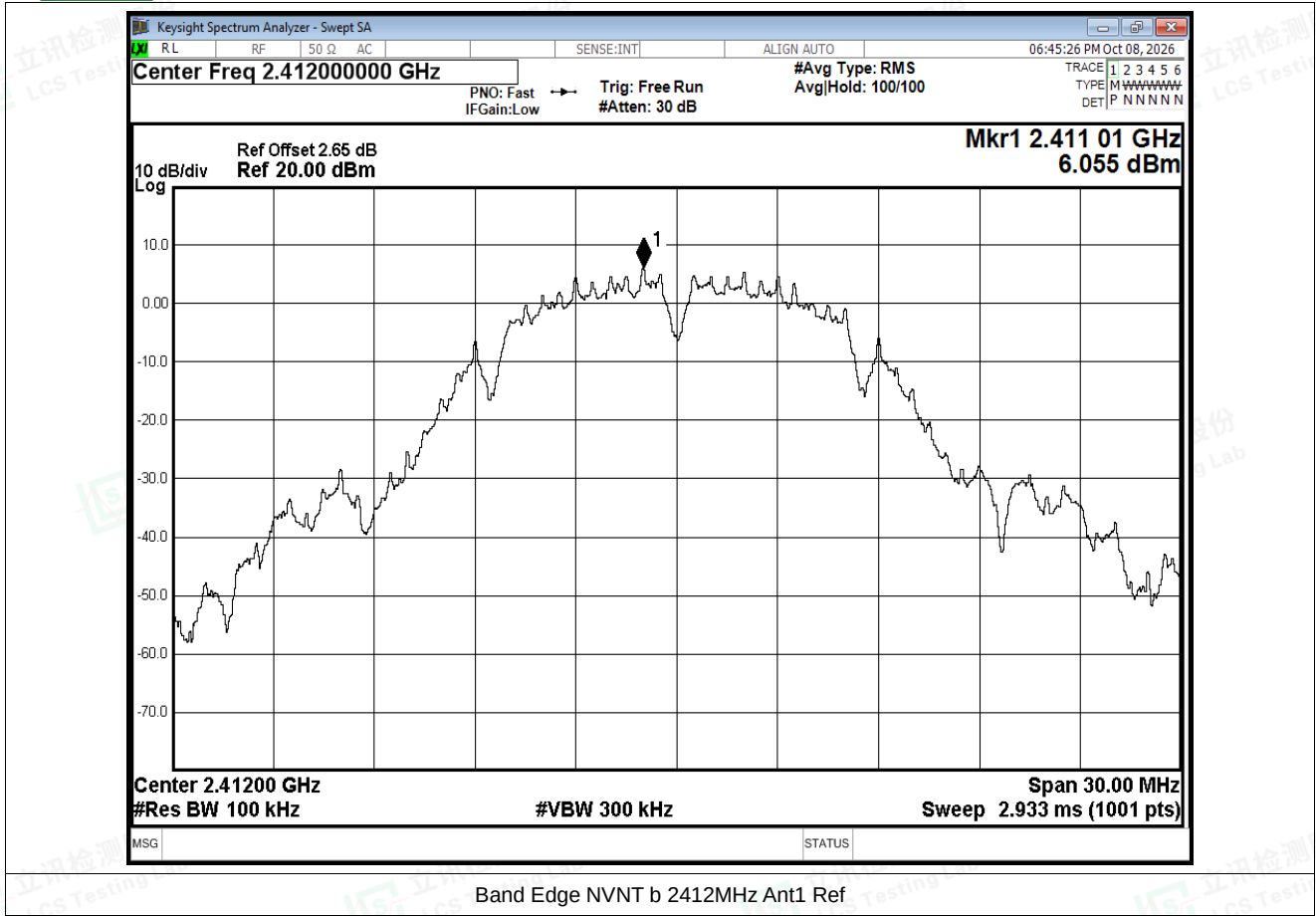
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A.4 Band Edge

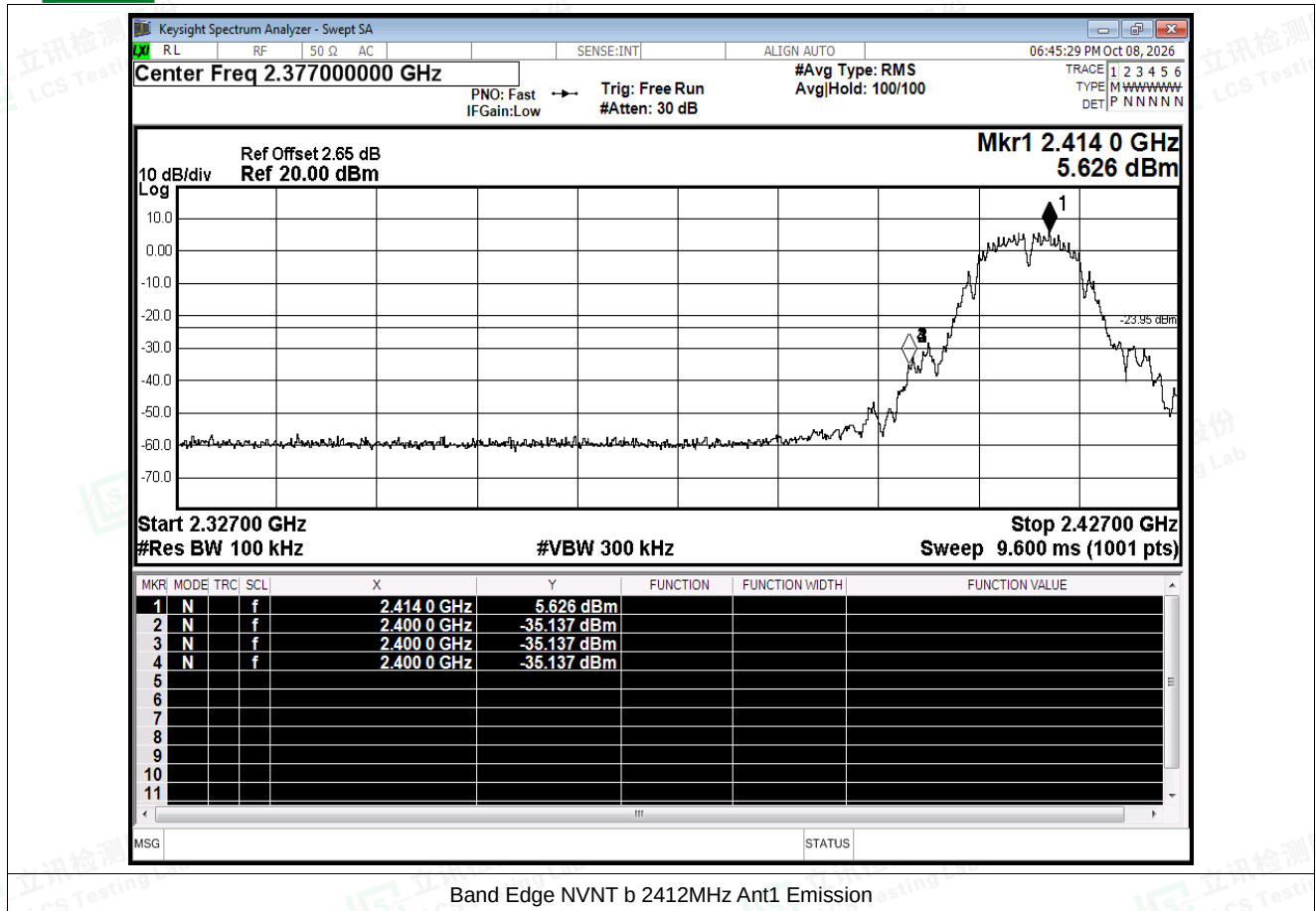
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-41.19	-30	Pass
NVNT	b	2462	Ant1	-60.04	-30	Pass
NVNT	g	2412	Ant1	-31.61	-30	Pass
NVNT	g	2462	Ant1	-42.58	-30	Pass
NVNT	n20	2412	Ant1	-30.98	-30	Pass
NVNT	n20	2462	Ant1	-40.06	-30	Pass
NVNT	n40	2422	Ant1	-32.16	-30	Pass
NVNT	n40	2452	Ant1	-37.06	-30	Pass



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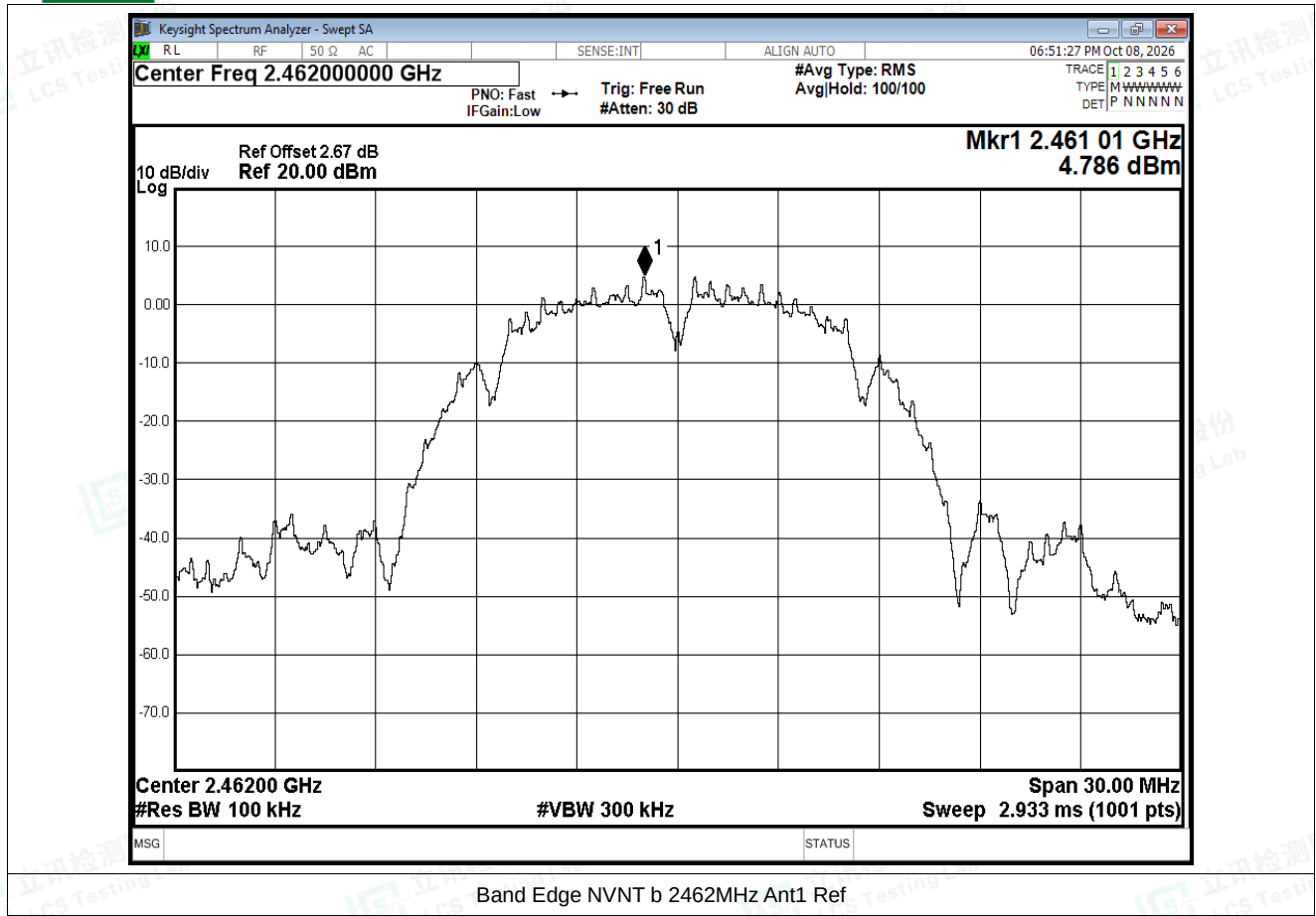
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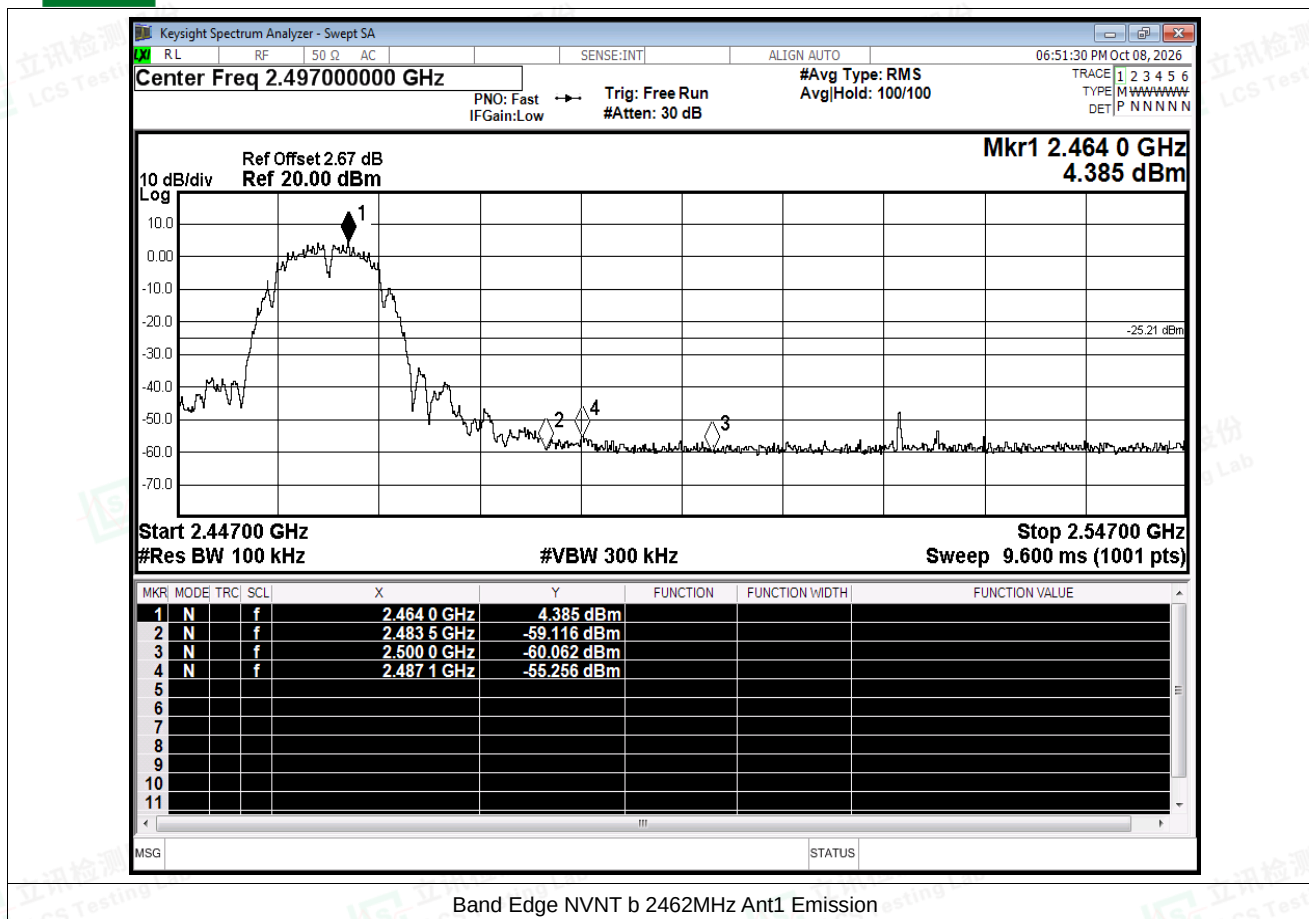
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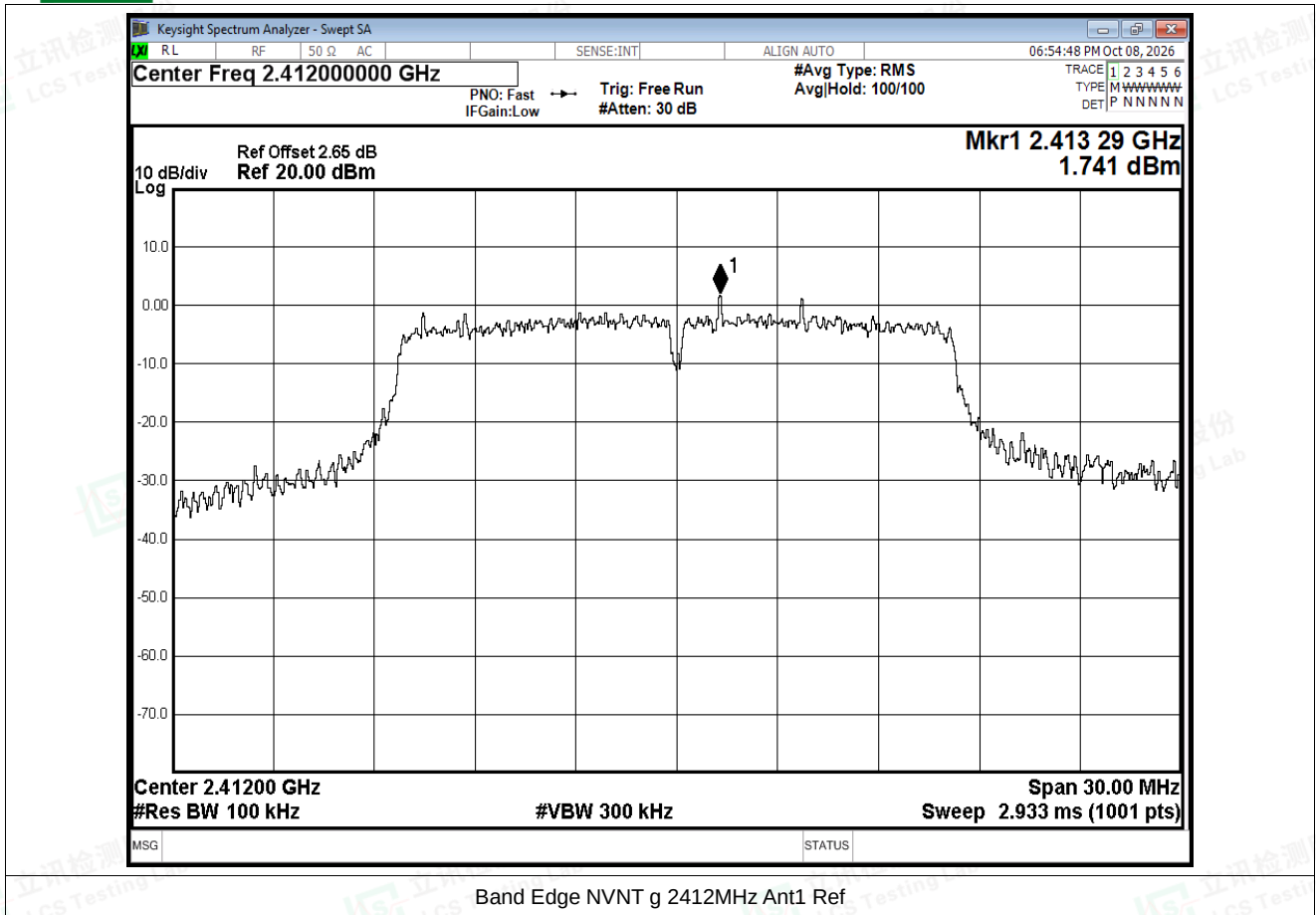
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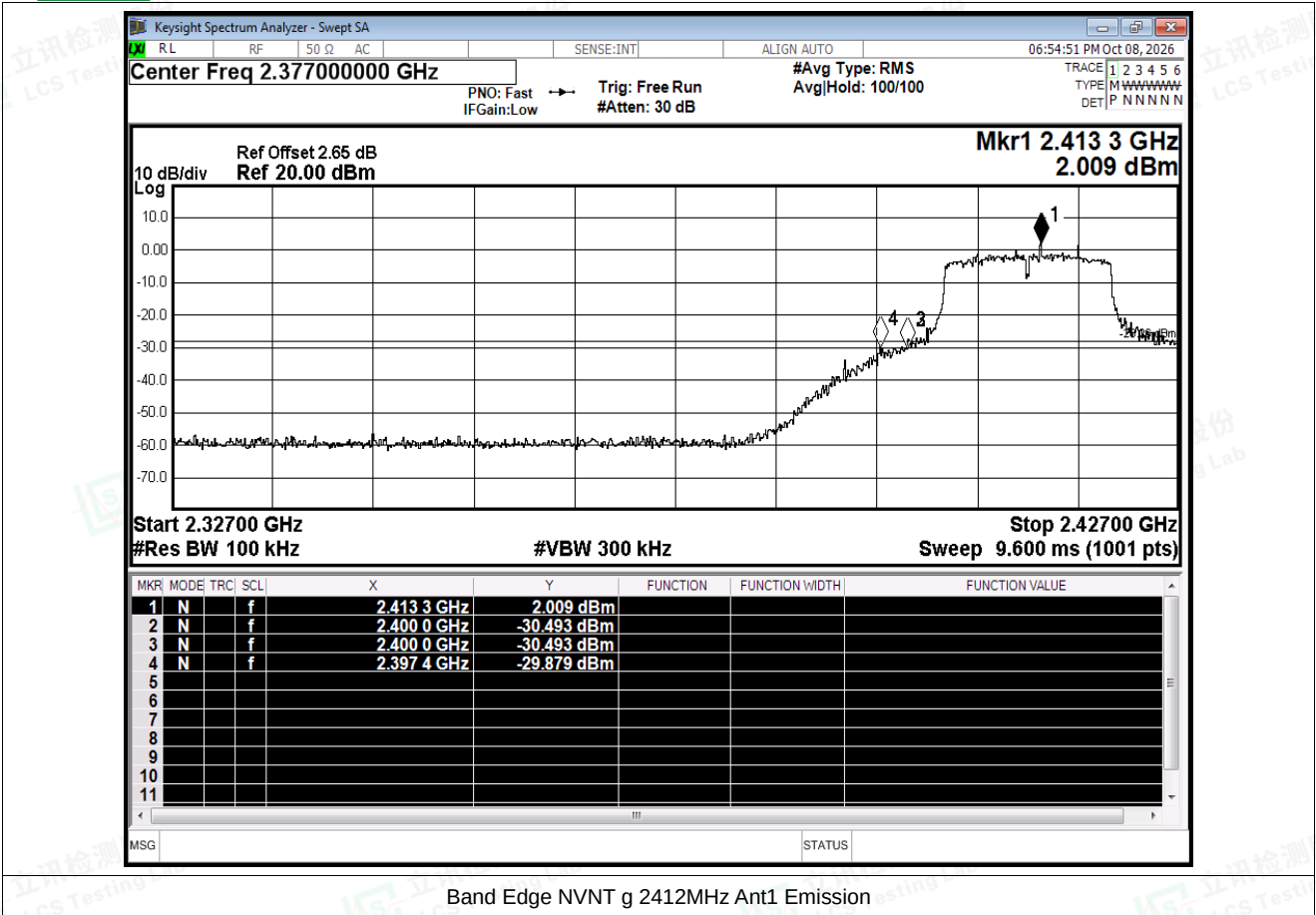
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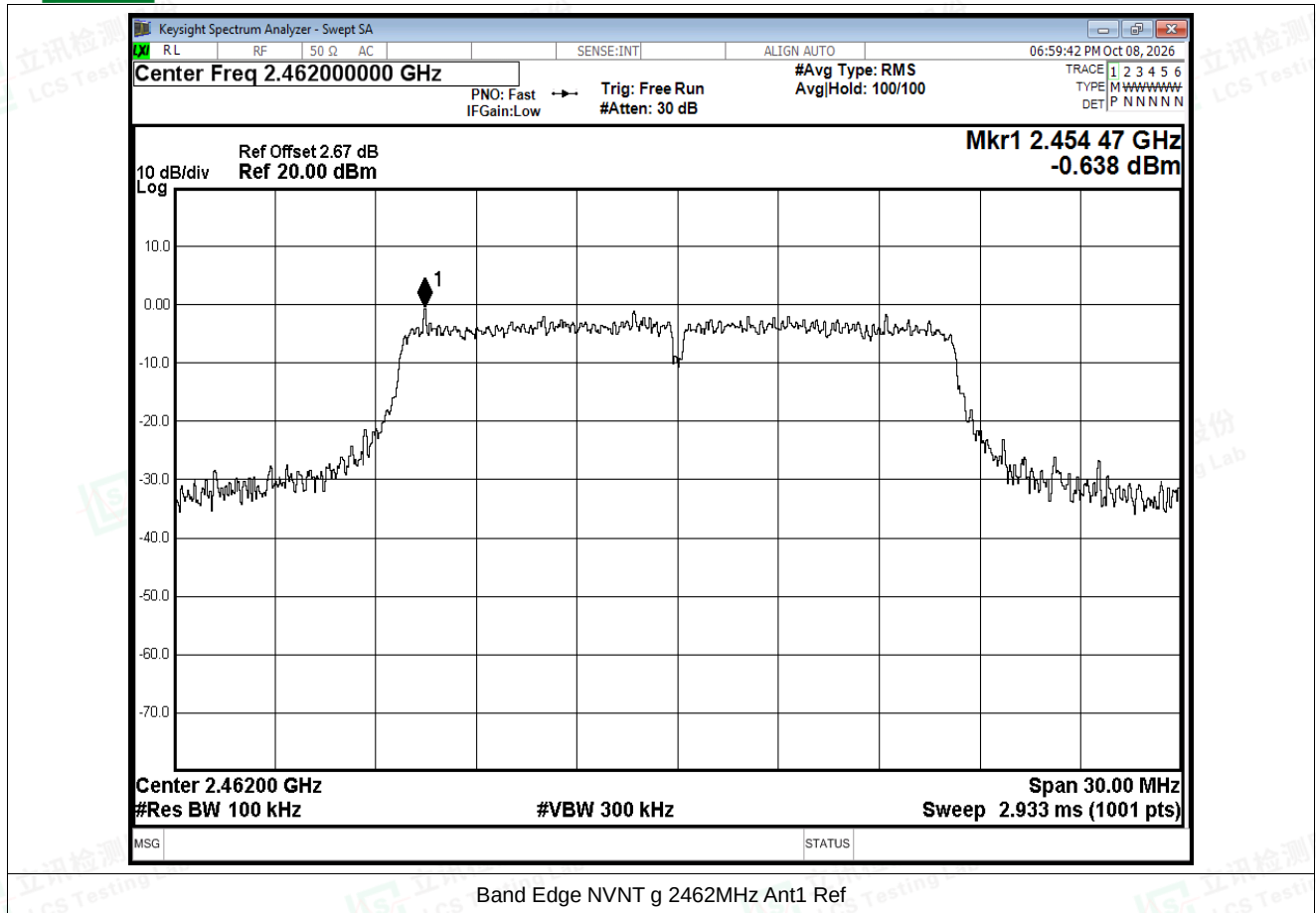


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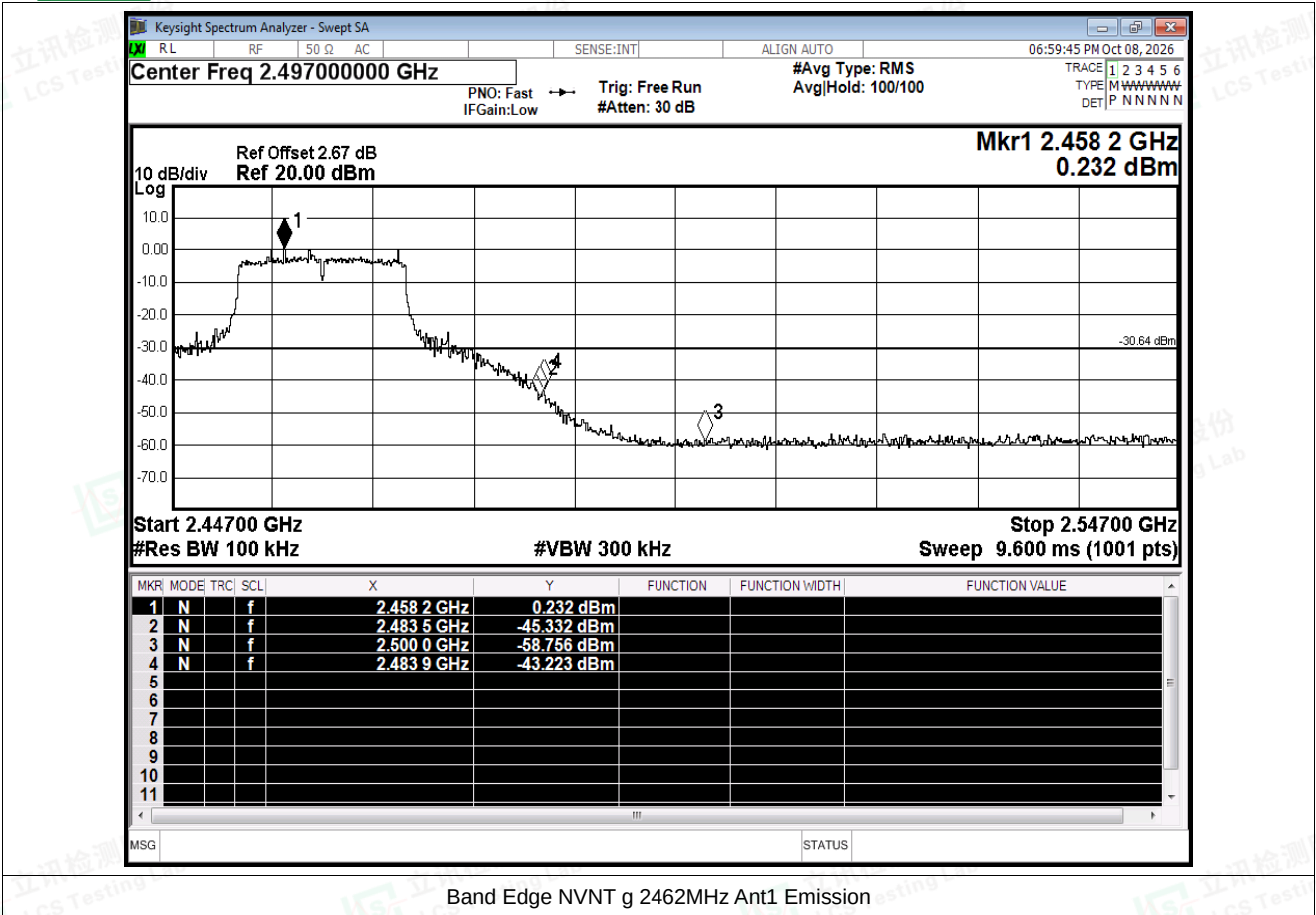


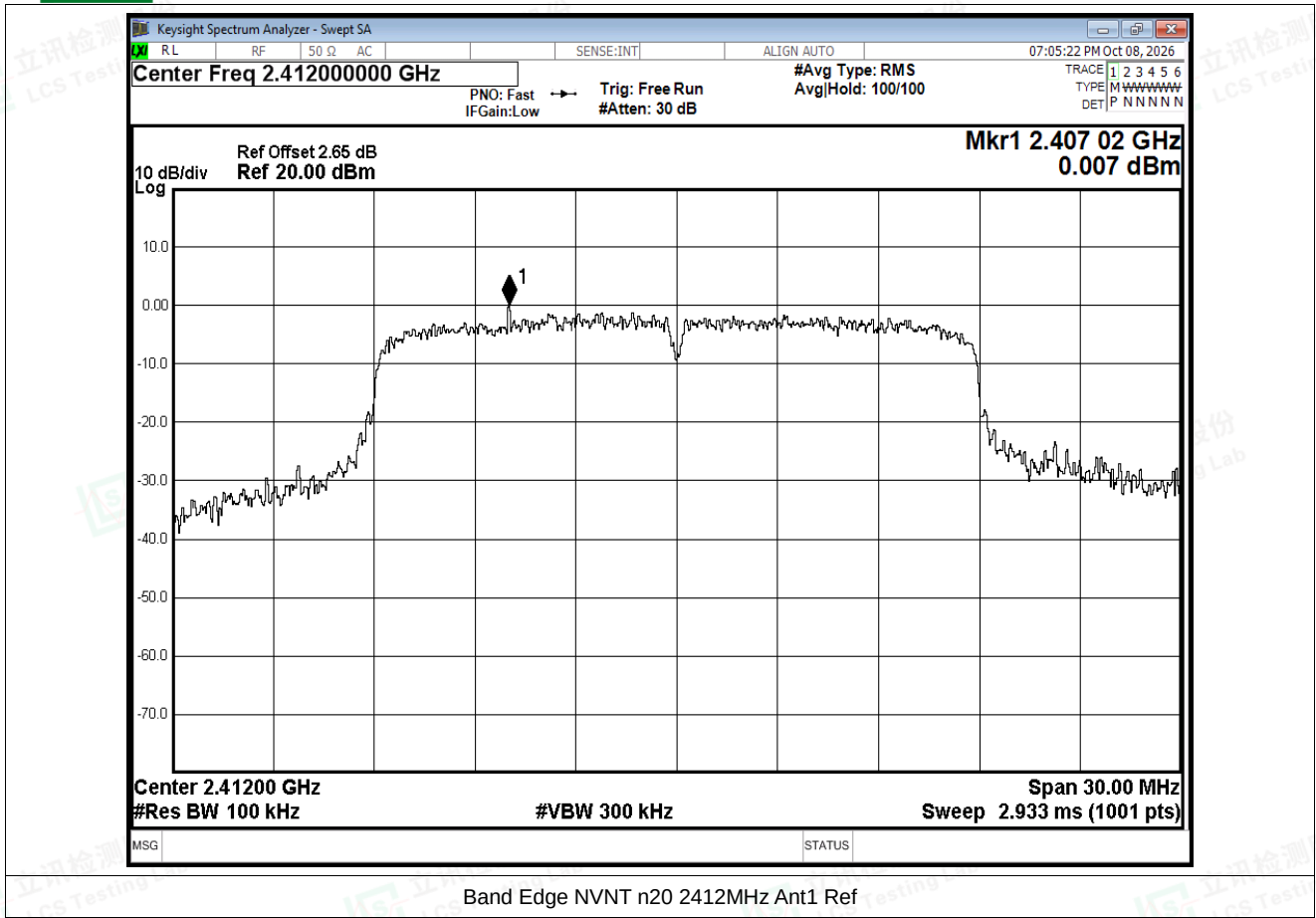


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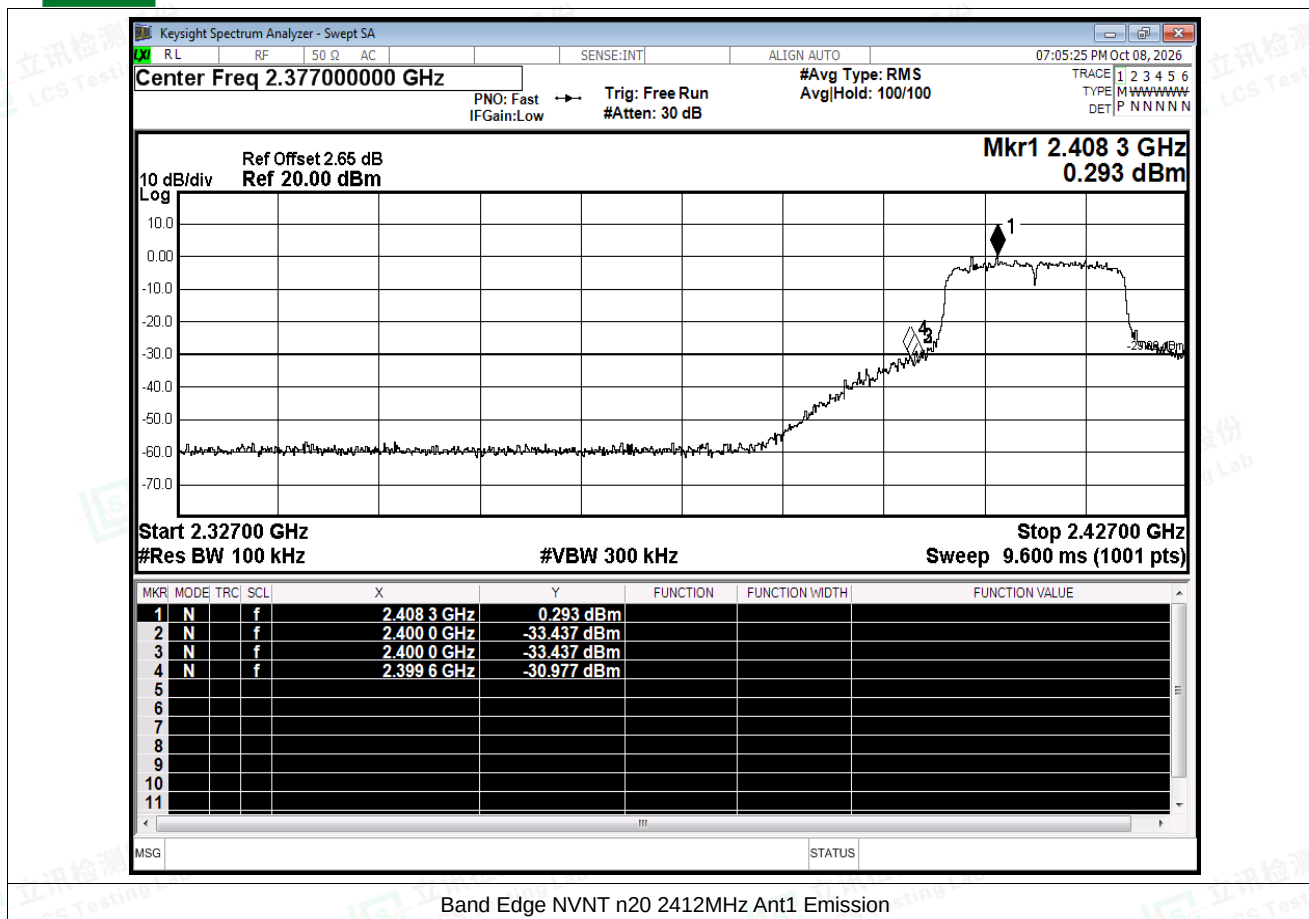




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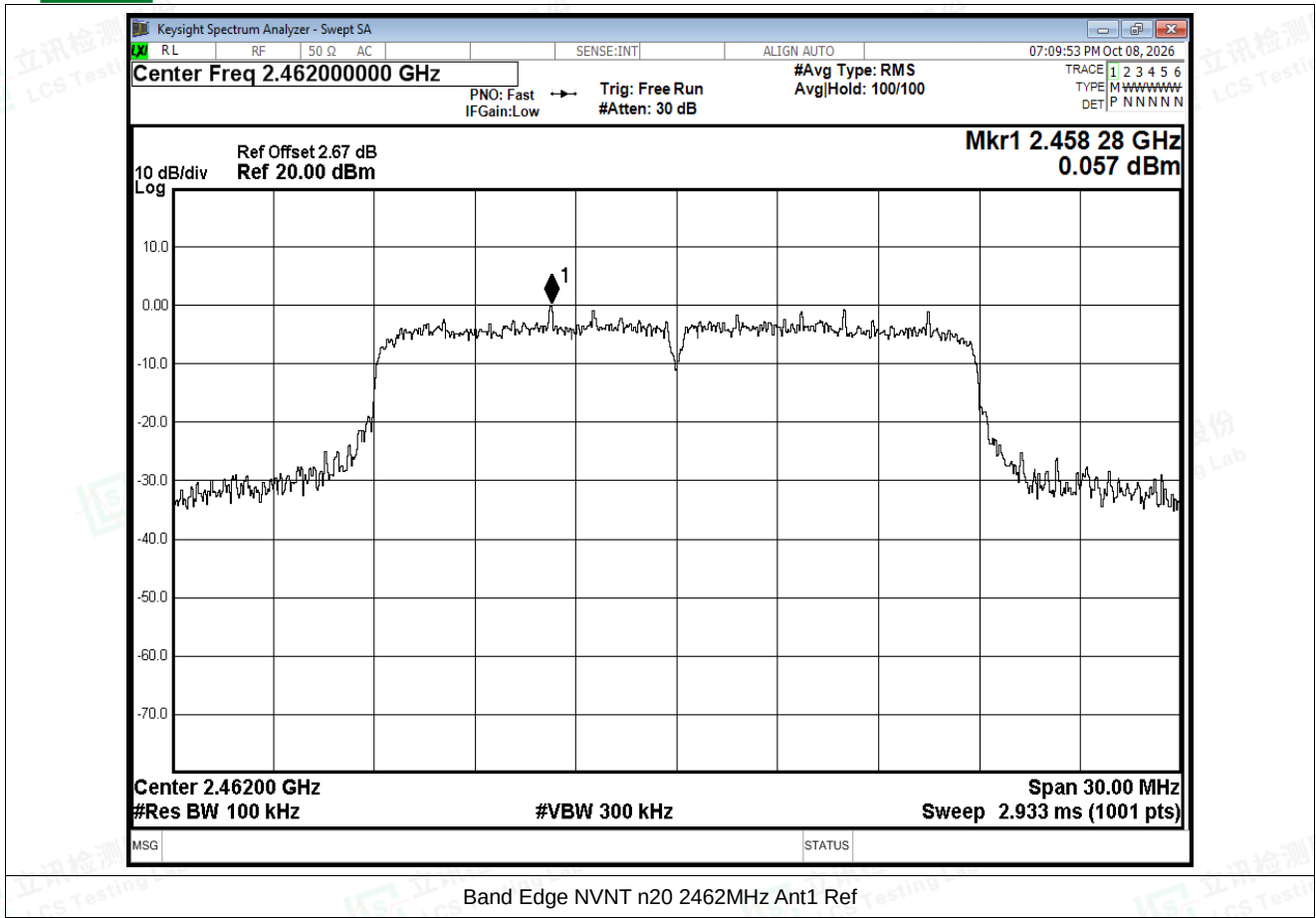
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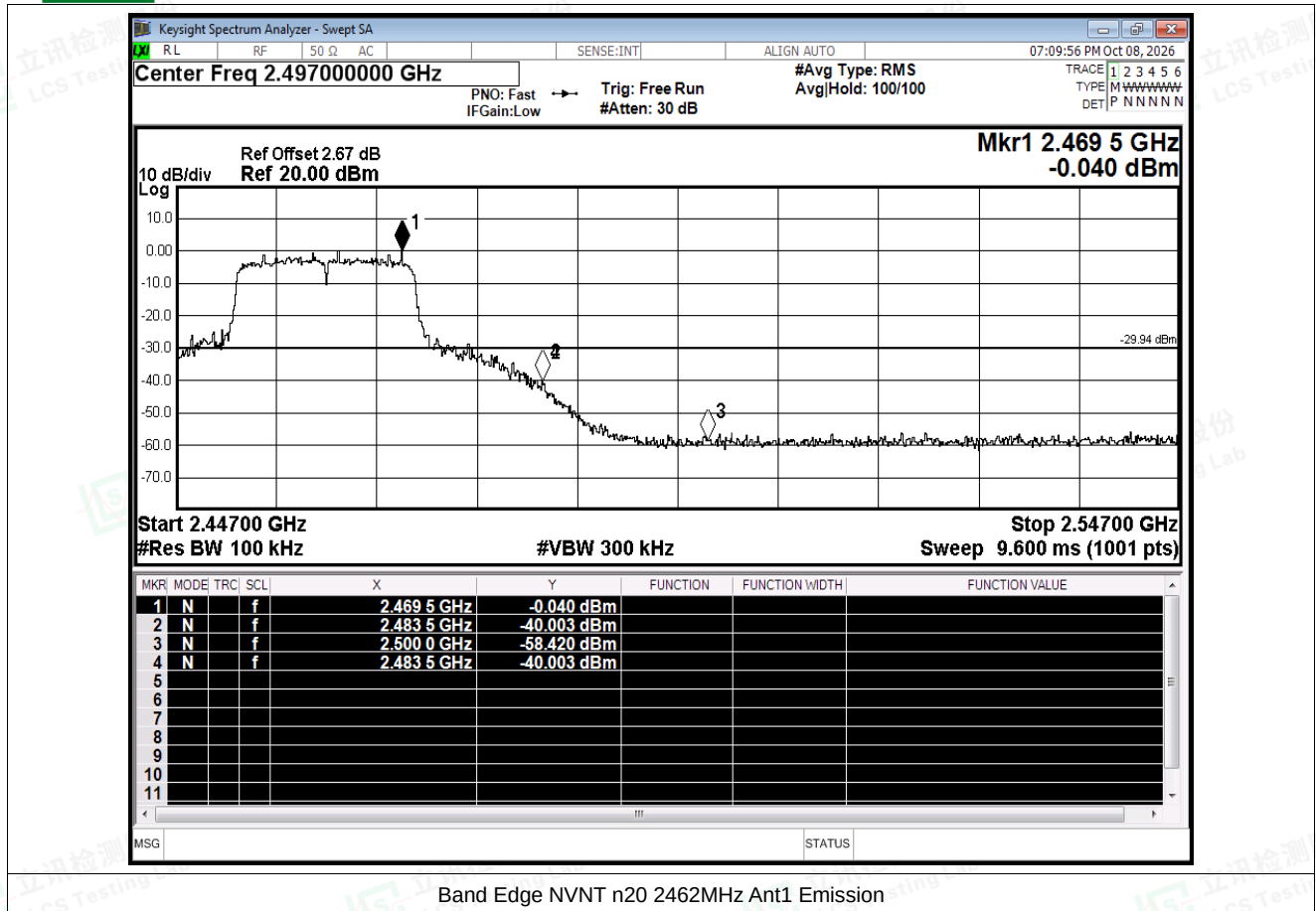
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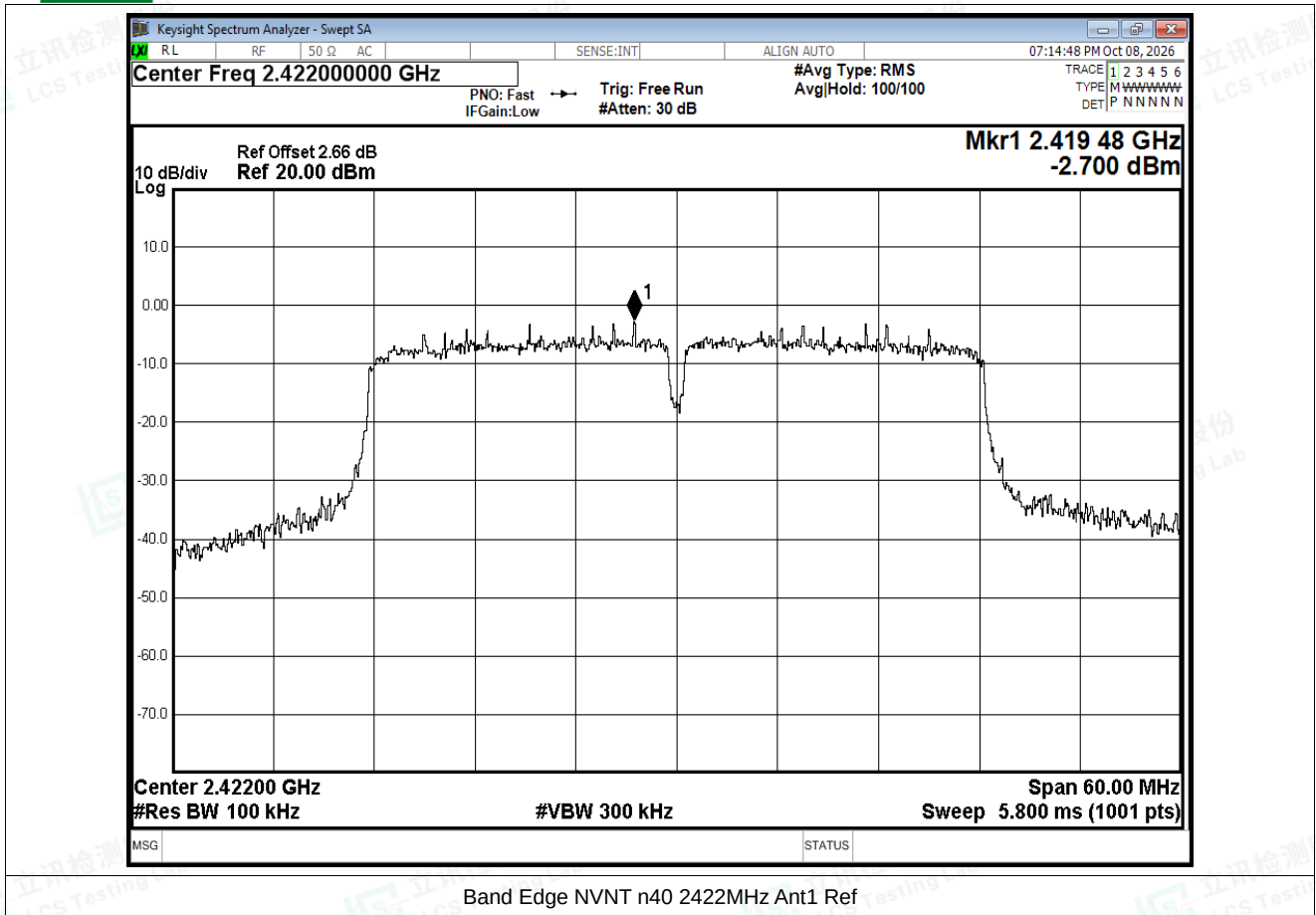
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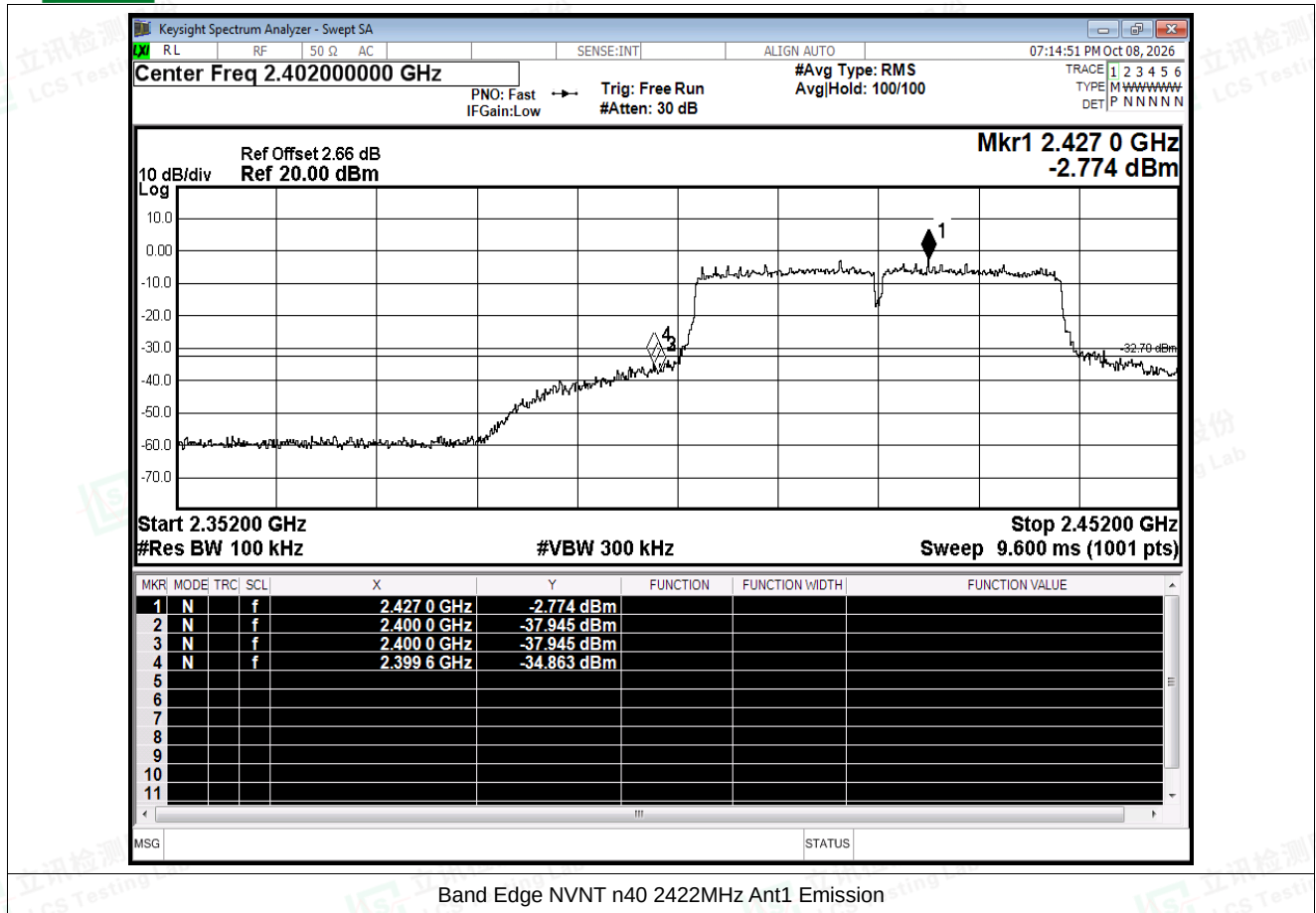
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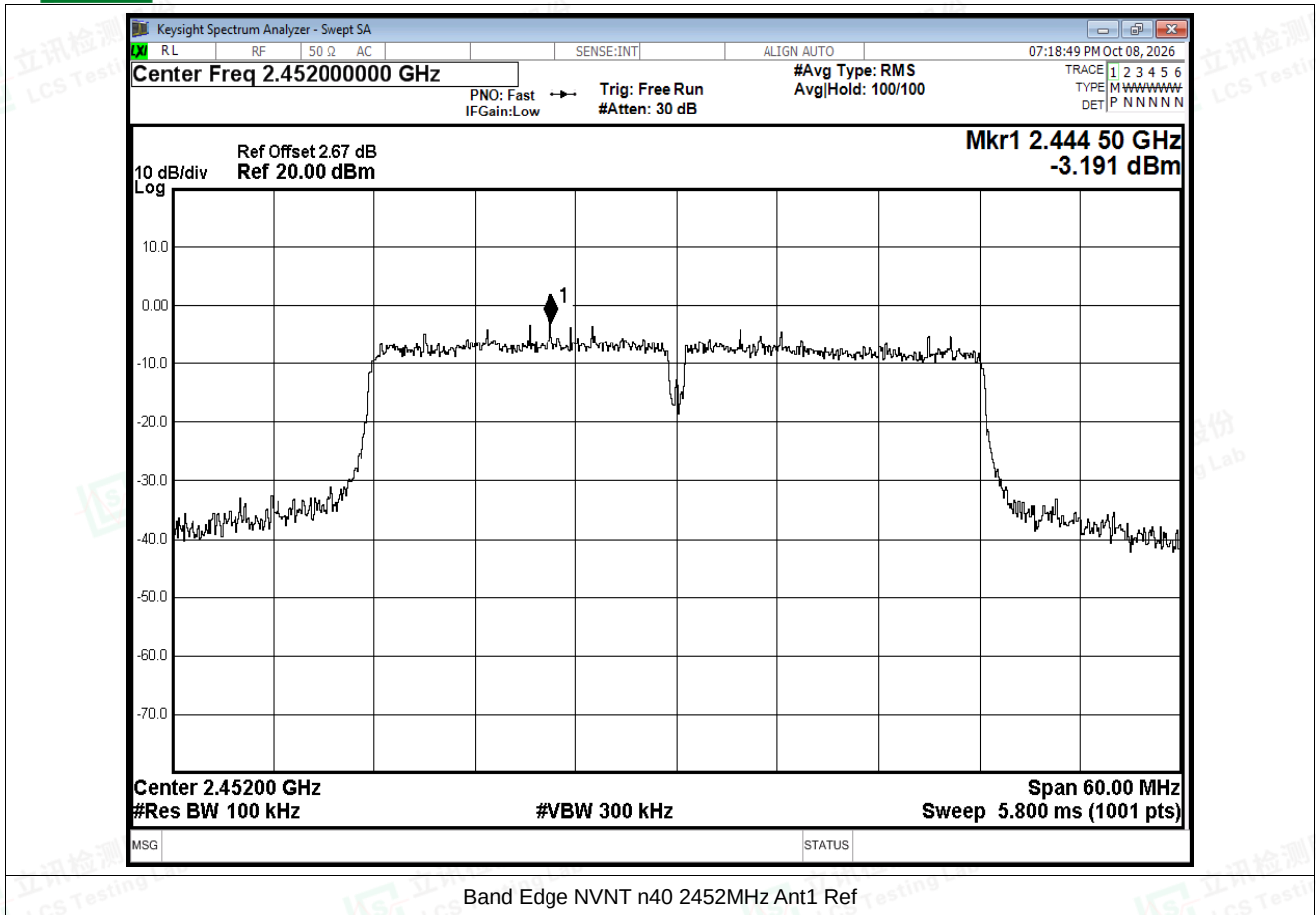
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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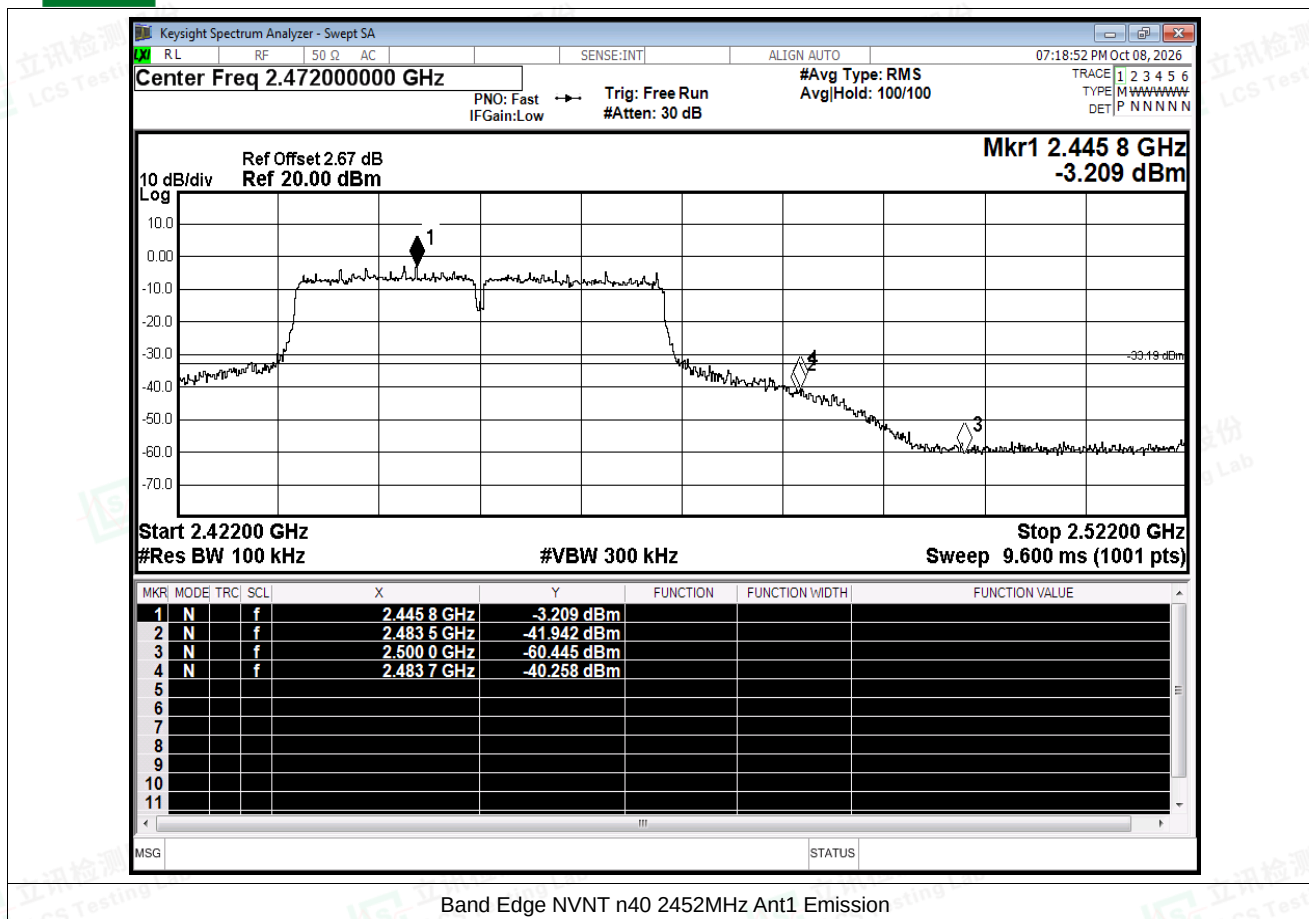
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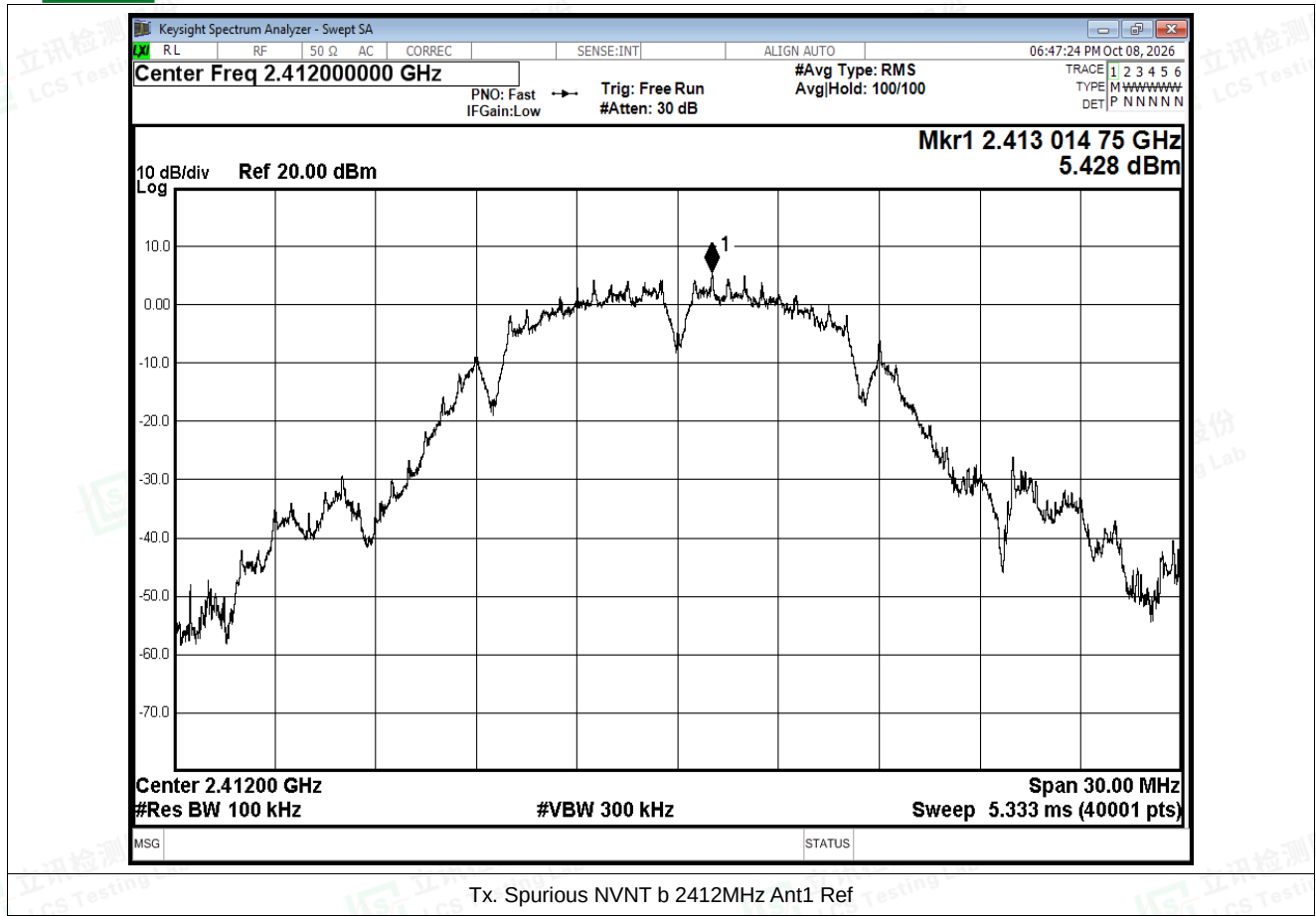
A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.54	-30	Pass
NVNT	b	2437	Ant1	-42.11	-30	Pass
NVNT	b	2462	Ant1	-41.17	-30	Pass
NVNT	g	2412	Ant1	-39.47	-30	Pass
NVNT	g	2437	Ant1	-37.4	-30	Pass
NVNT	g	2462	Ant1	-38.64	-30	Pass
NVNT	n20	2412	Ant1	-37.94	-30	Pass
NVNT	n20	2437	Ant1	-37.43	-30	Pass
NVNT	n20	2462	Ant1	-37.11	-30	Pass
NVNT	n40	2422	Ant1	-34.37	-30	Pass
NVNT	n40	2437	Ant1	-32.48	-30	Pass
NVNT	n40	2452	Ant1	-34.15	-30	Pass

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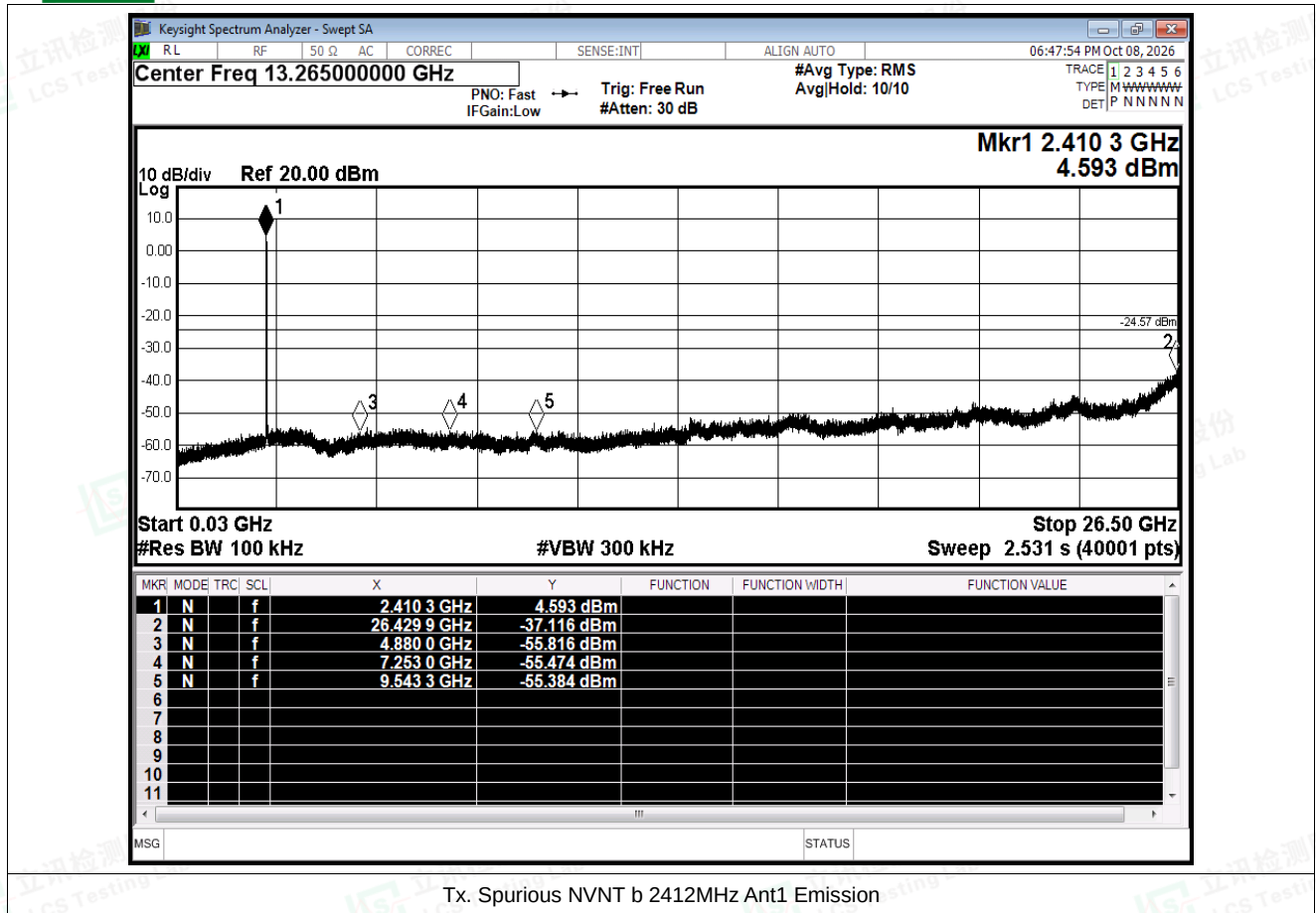
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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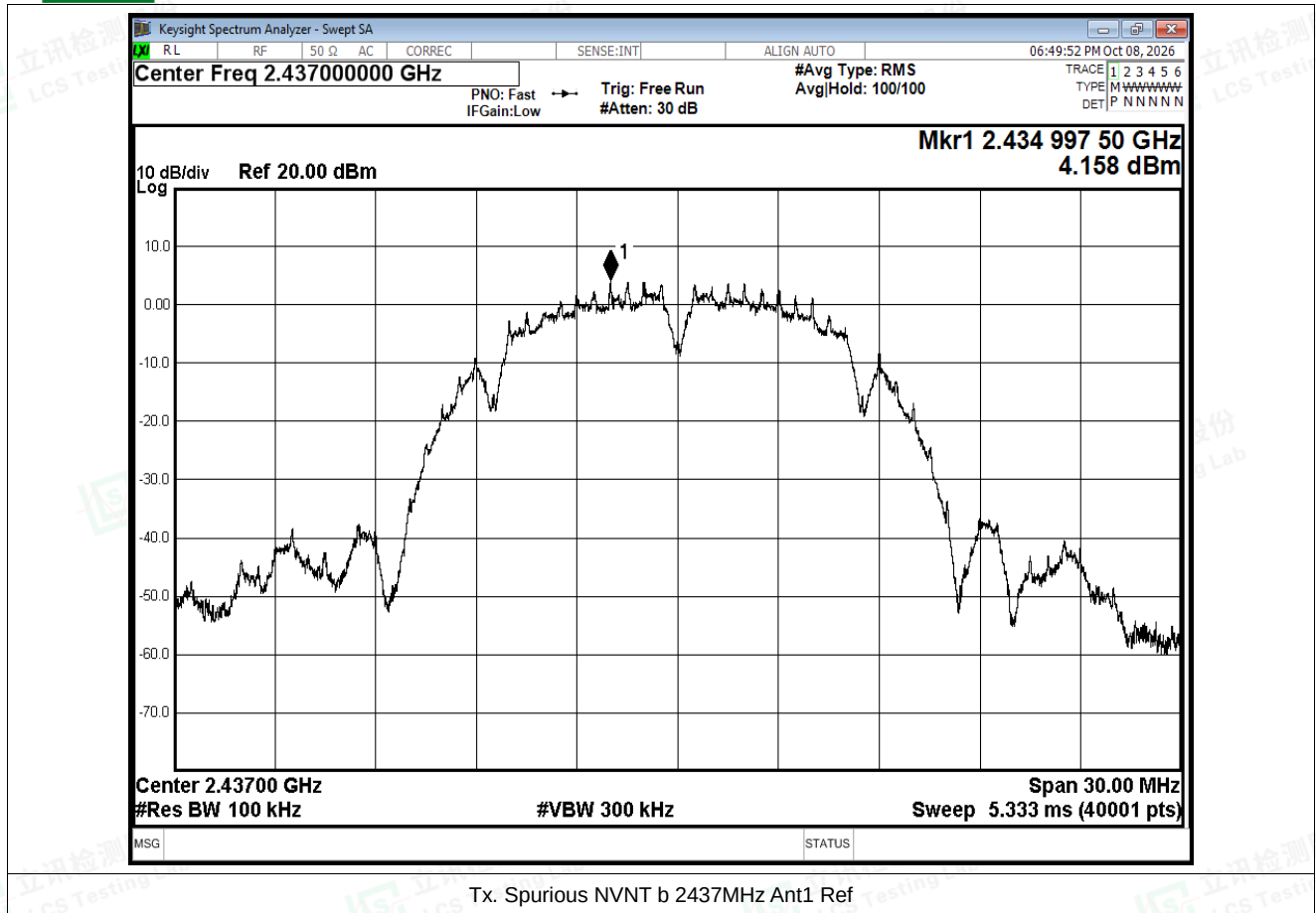
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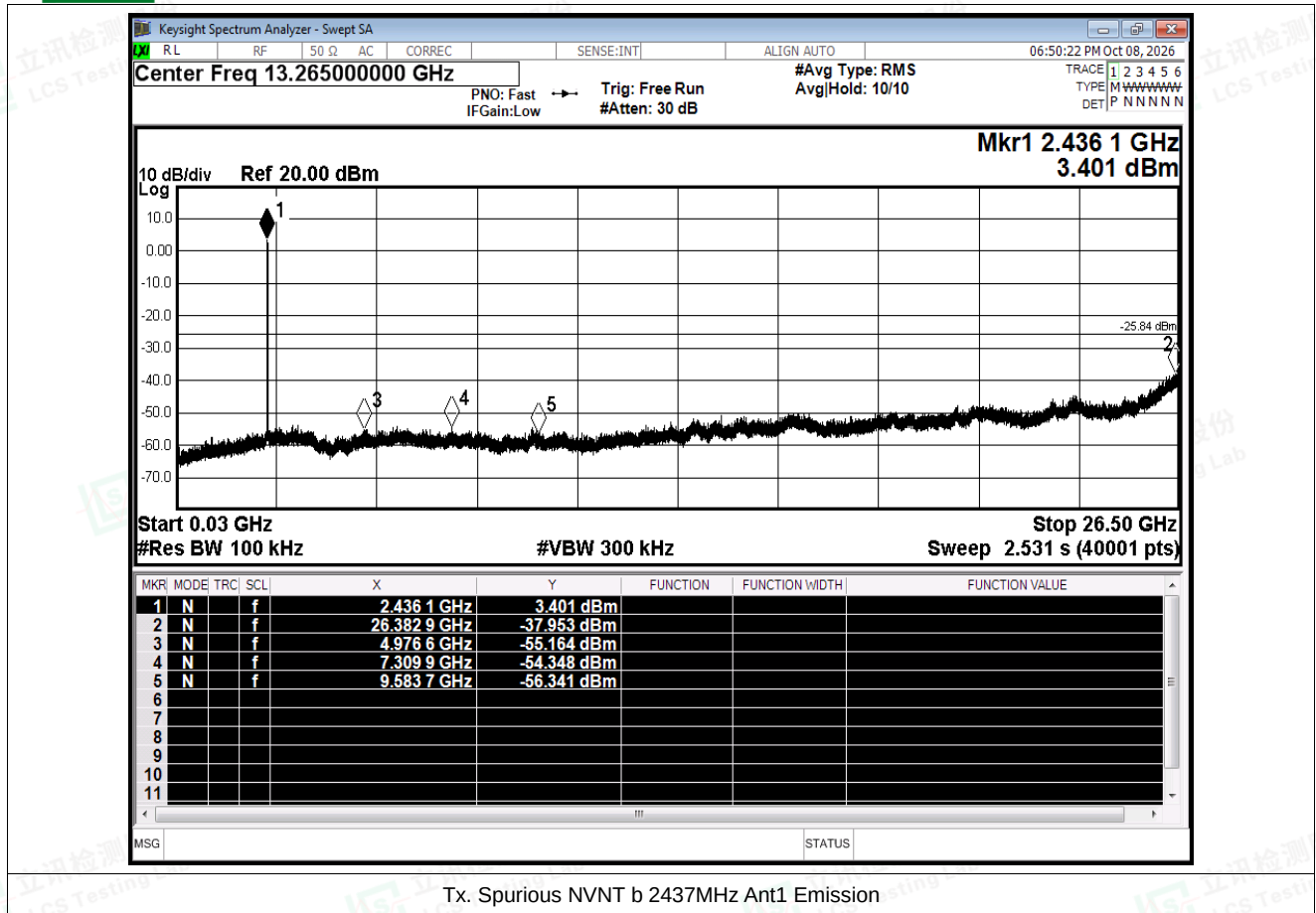
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

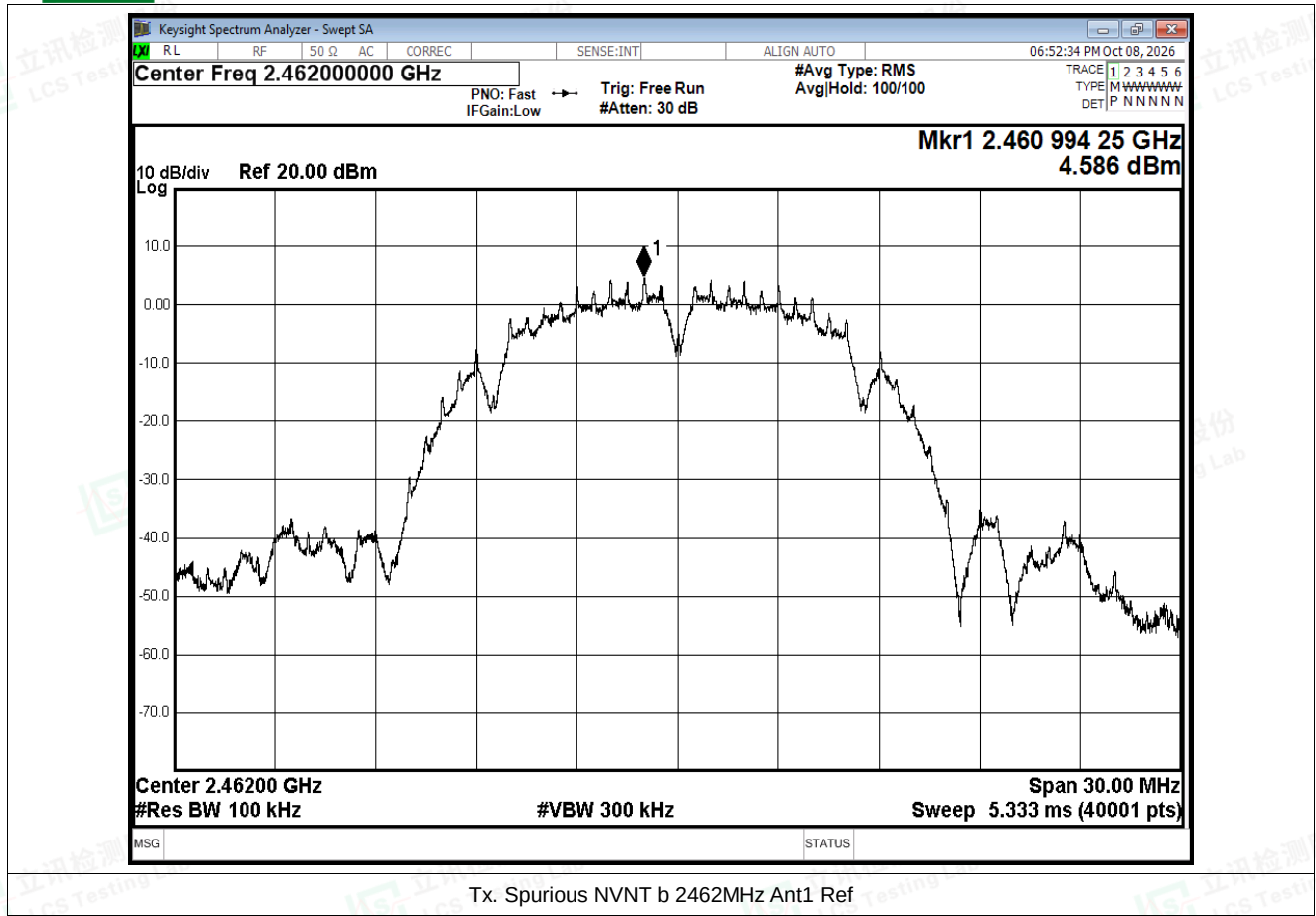


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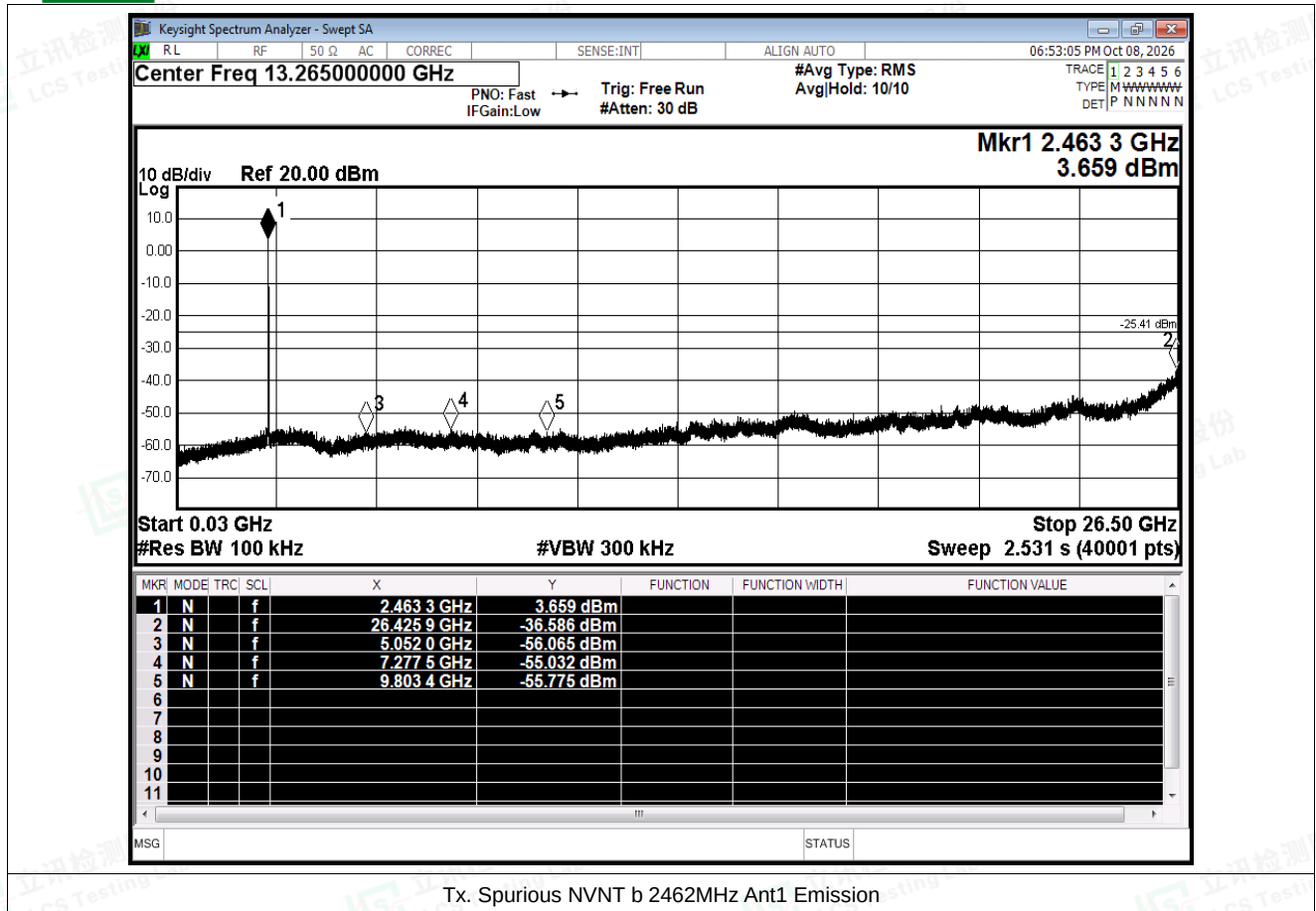


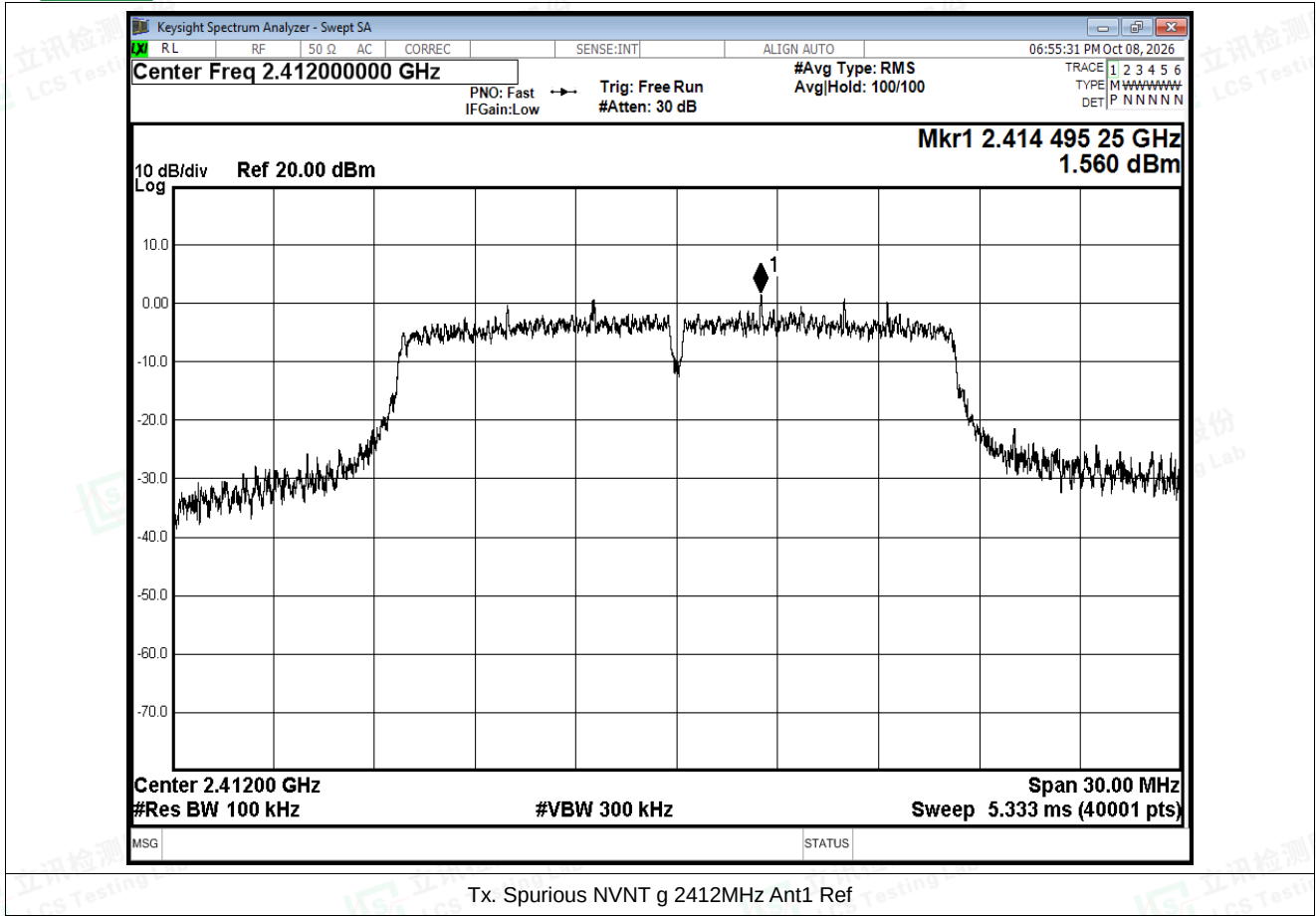


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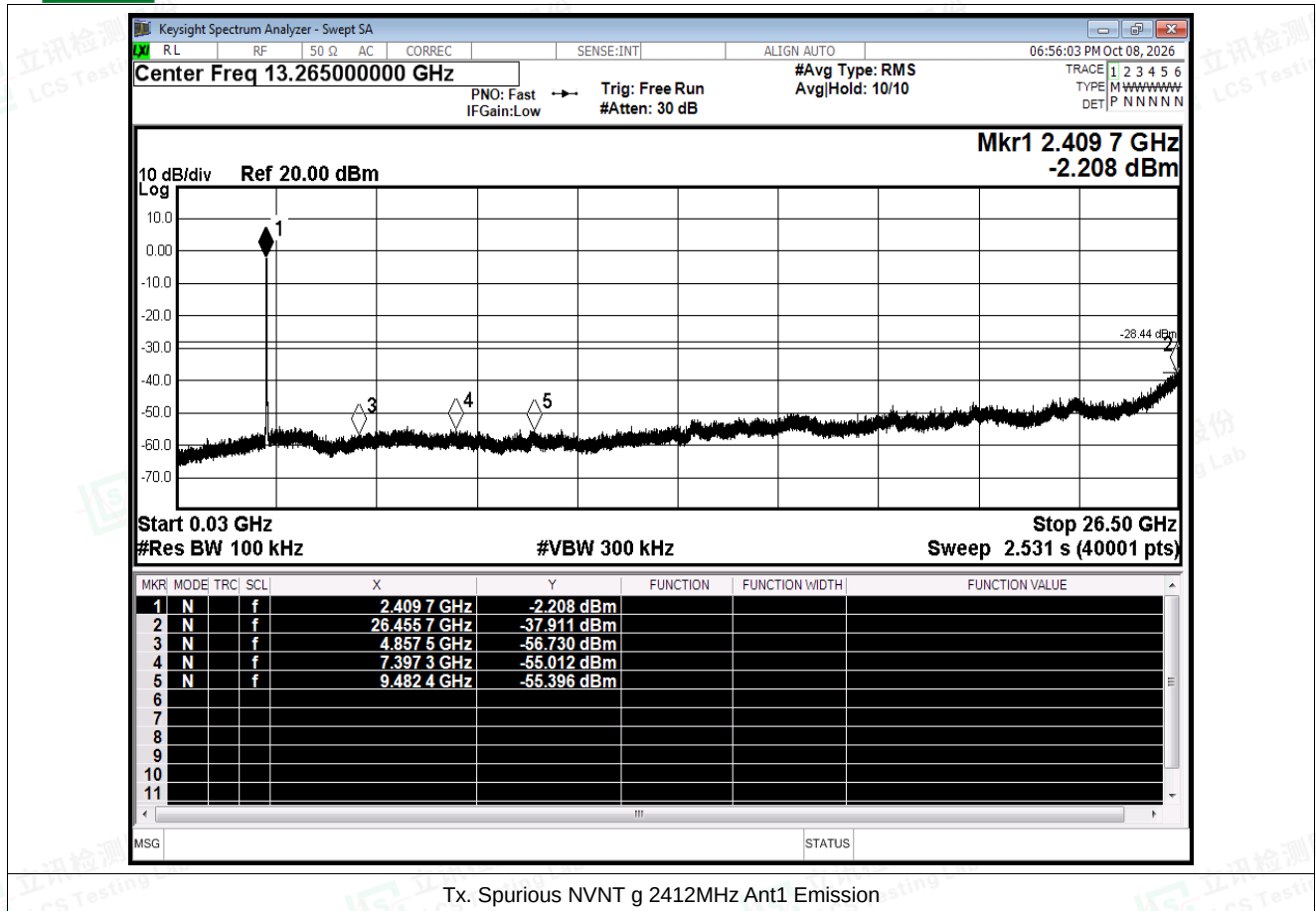




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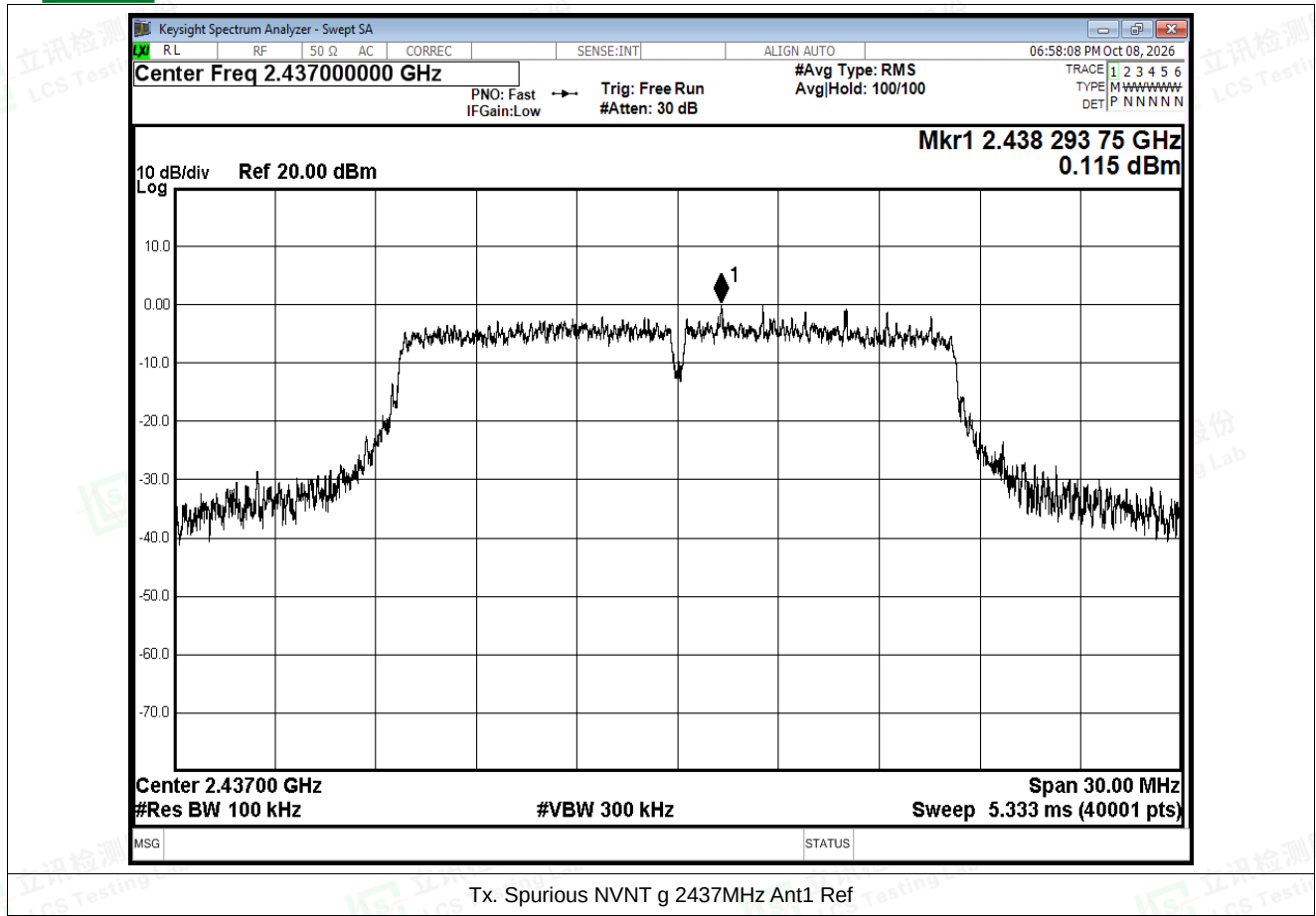
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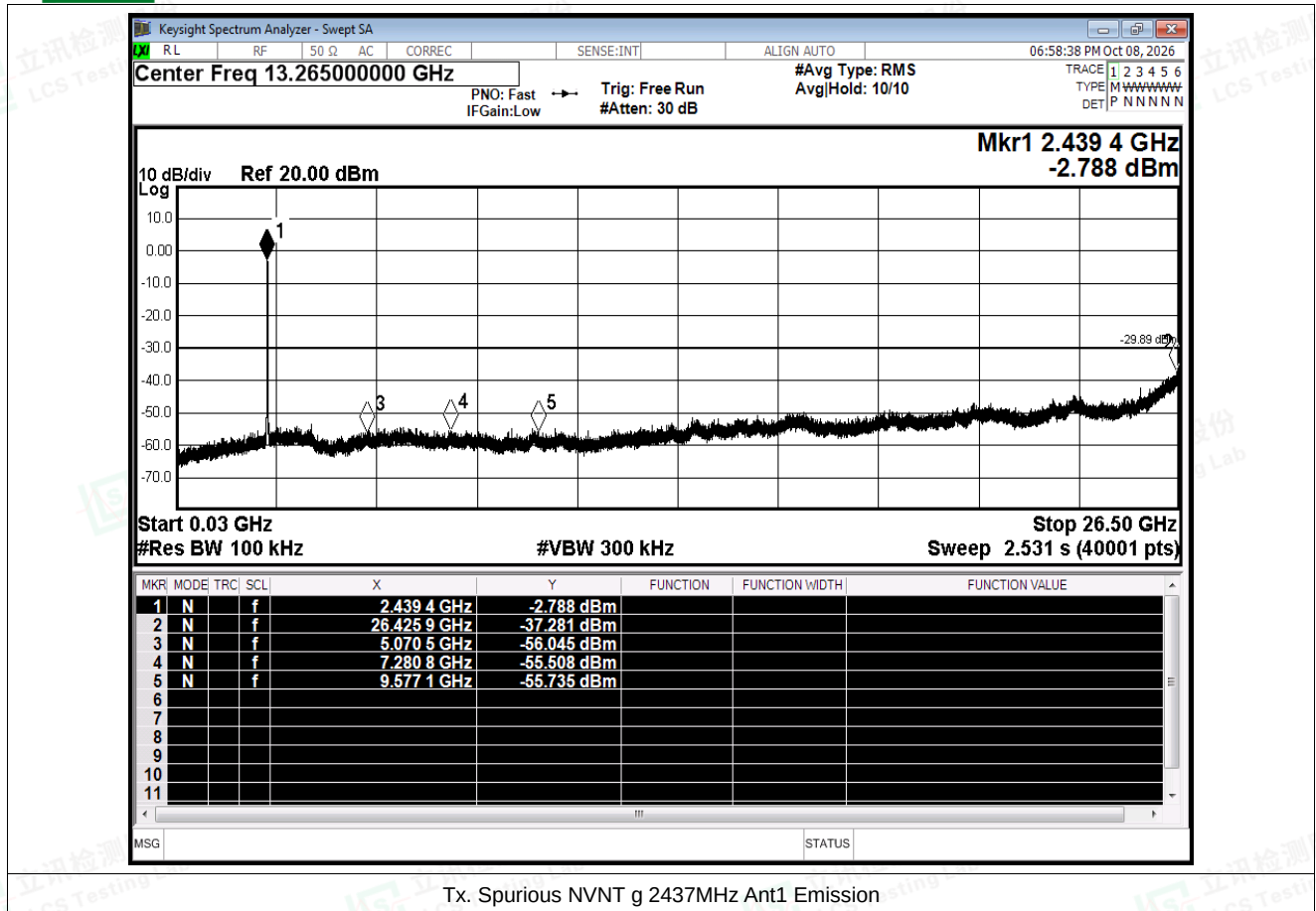
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

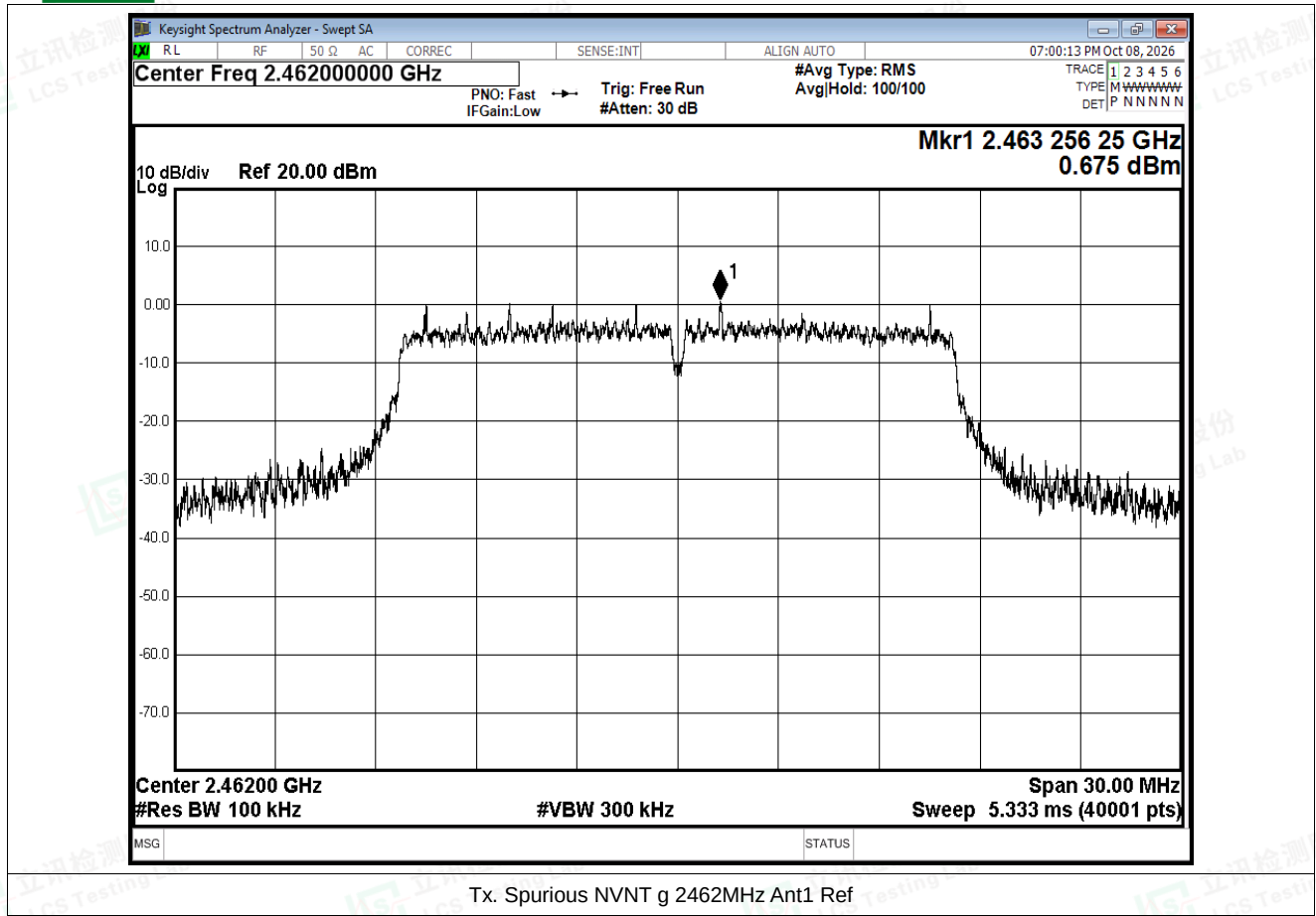


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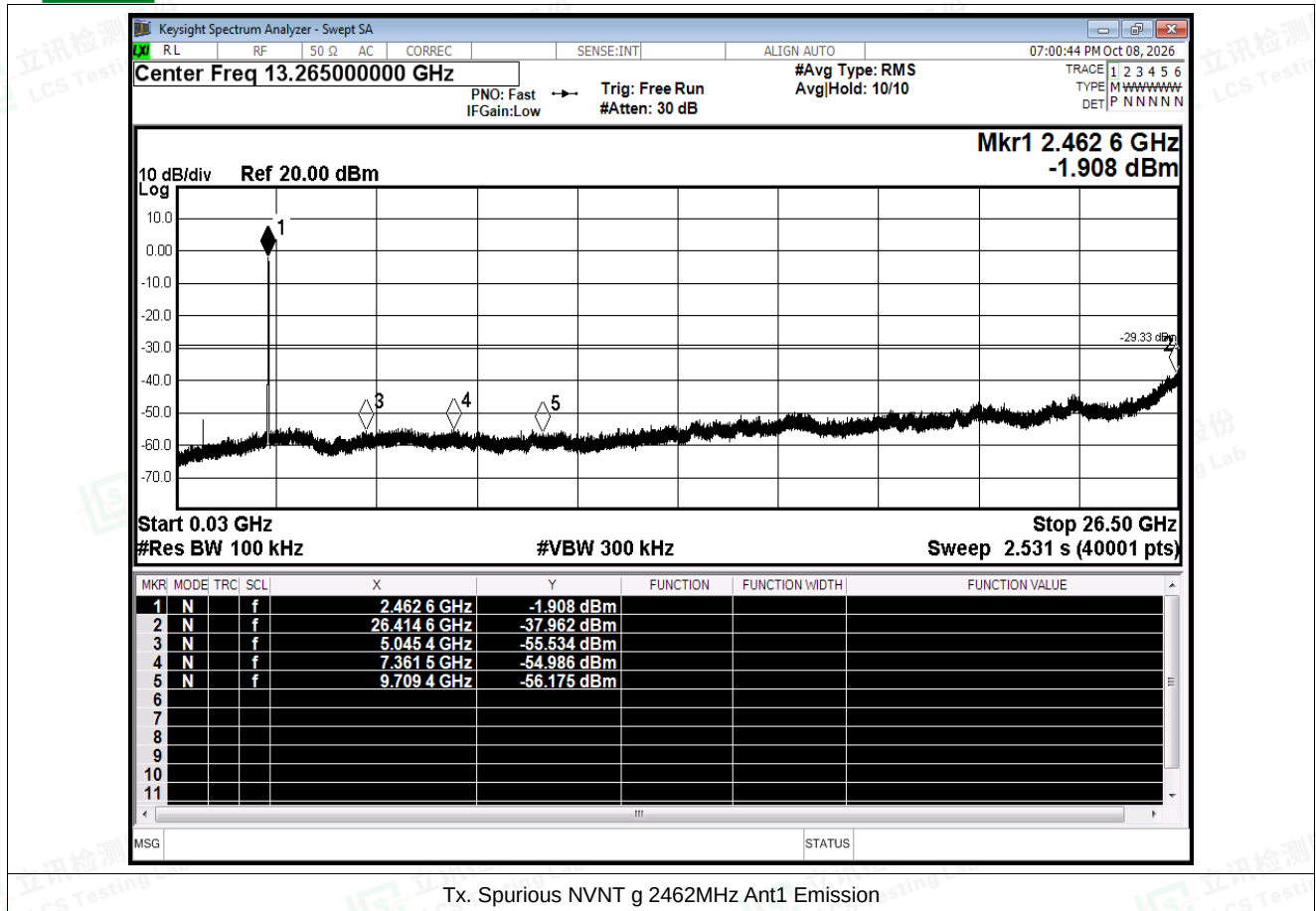


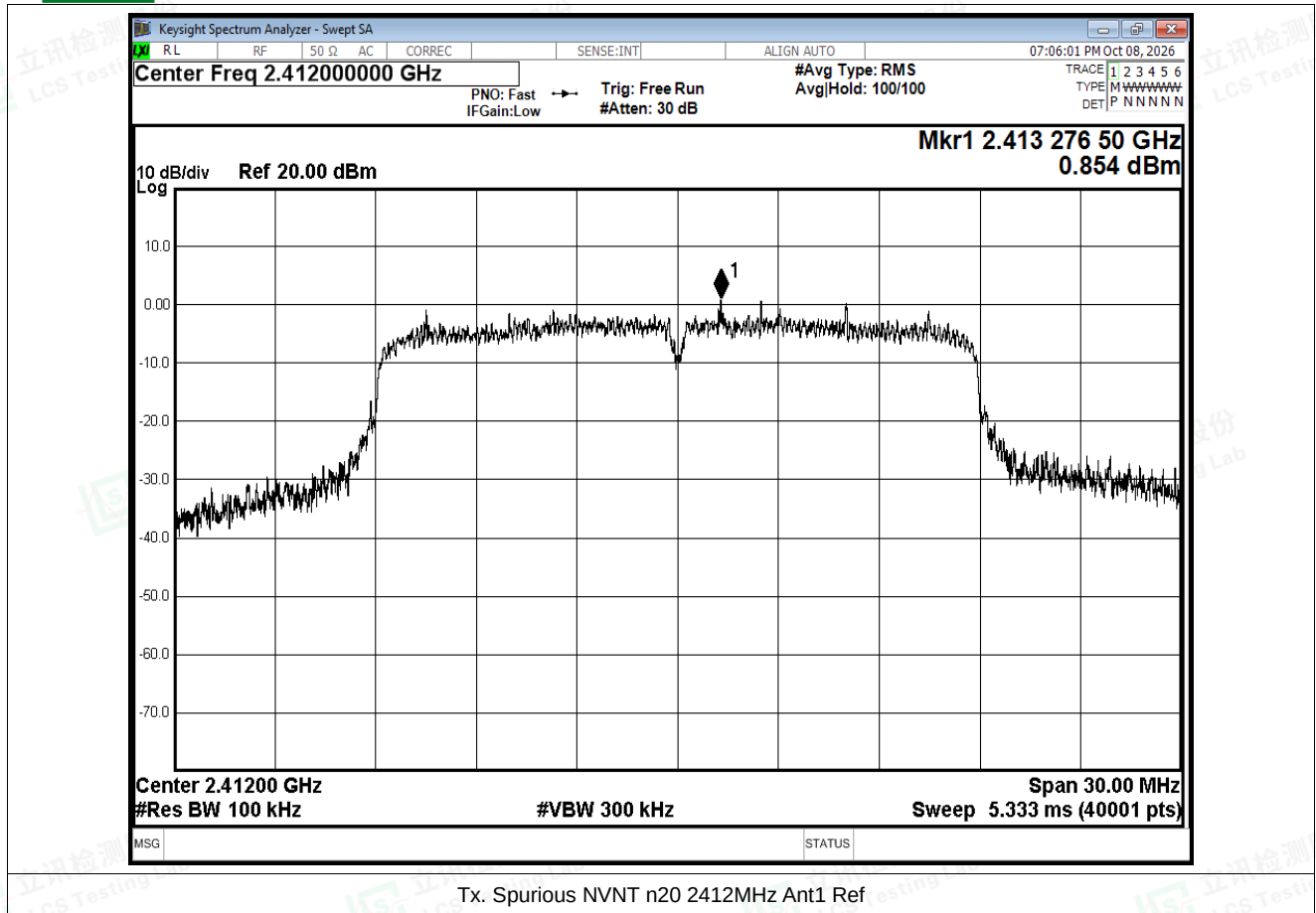


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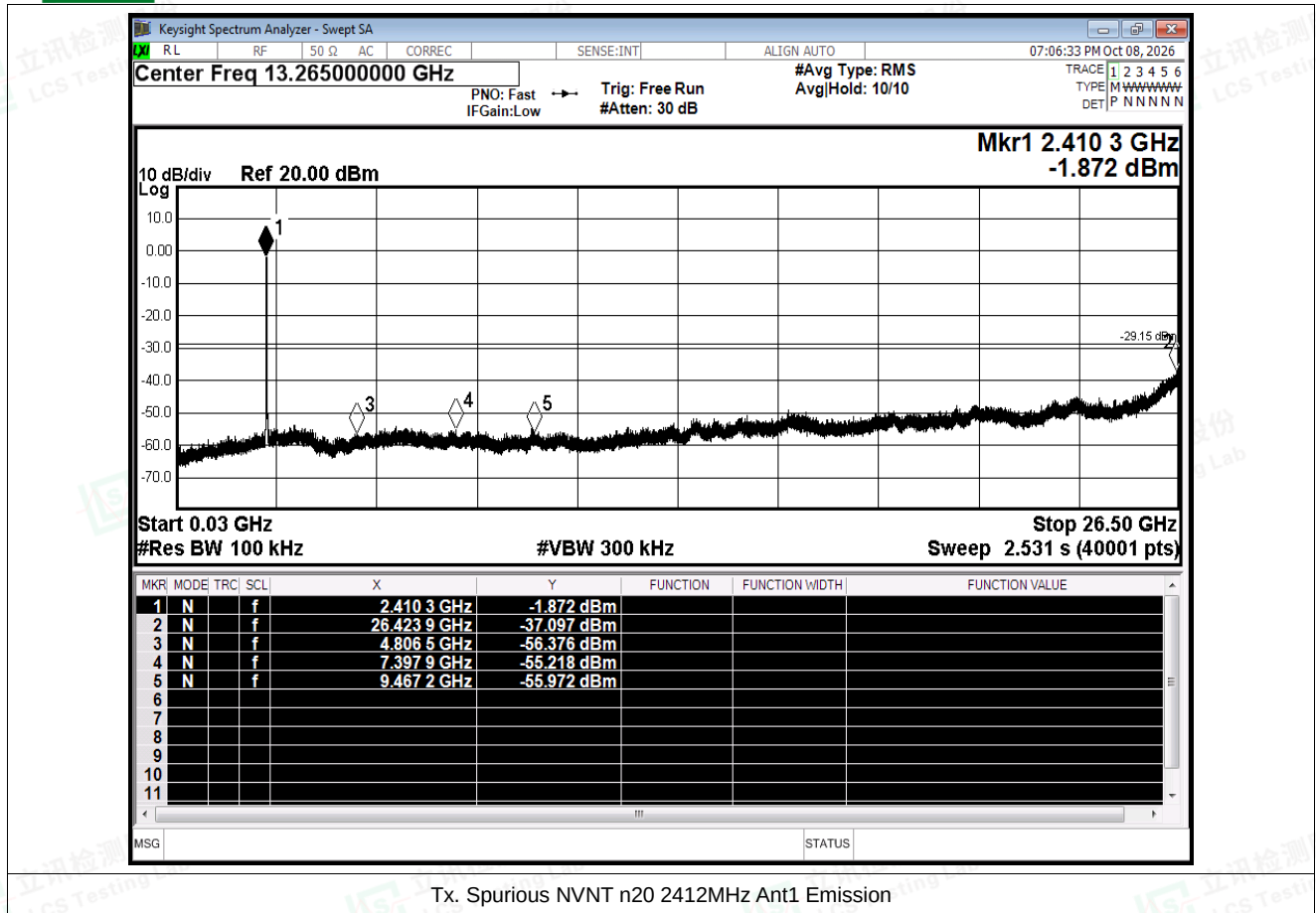




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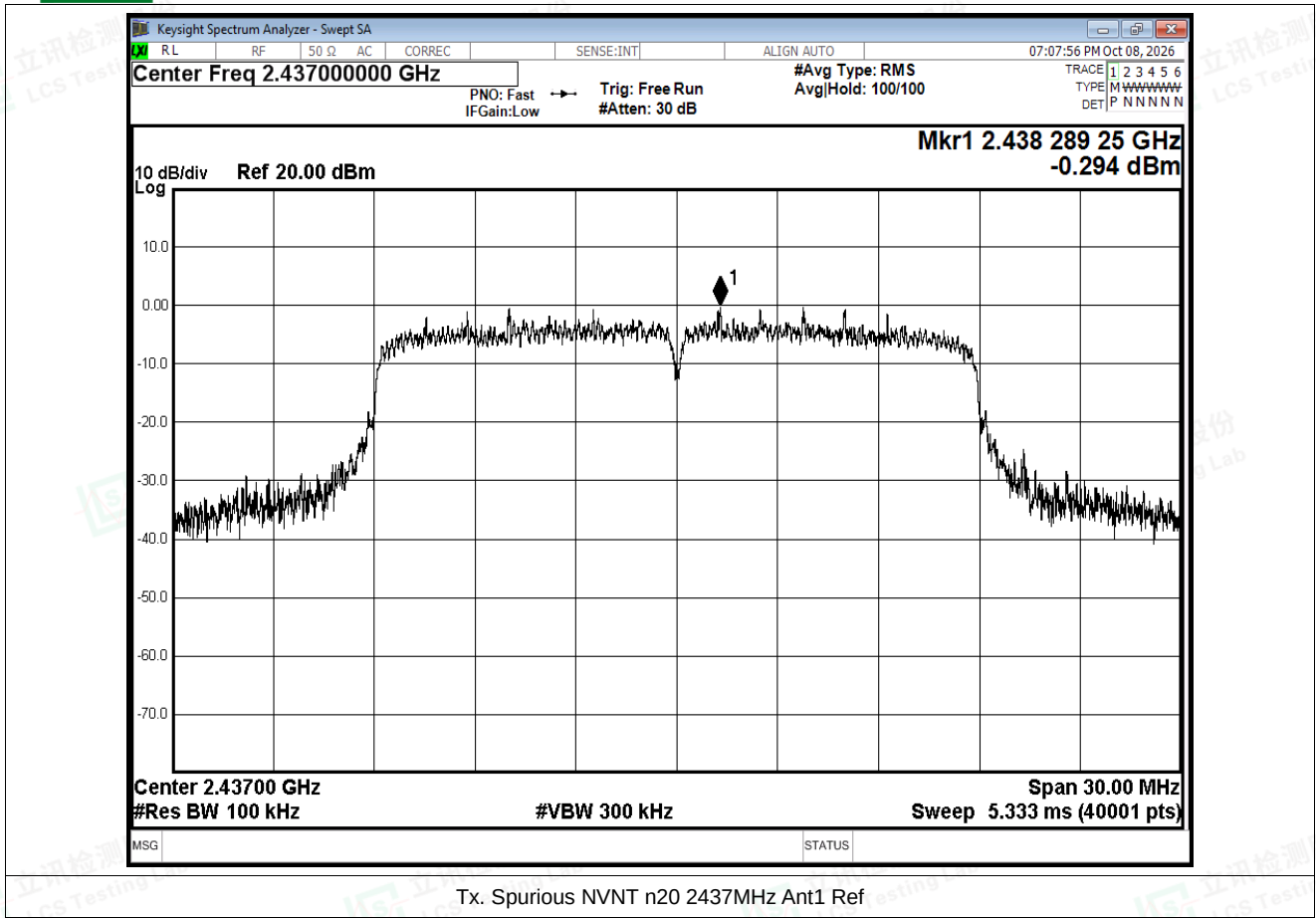
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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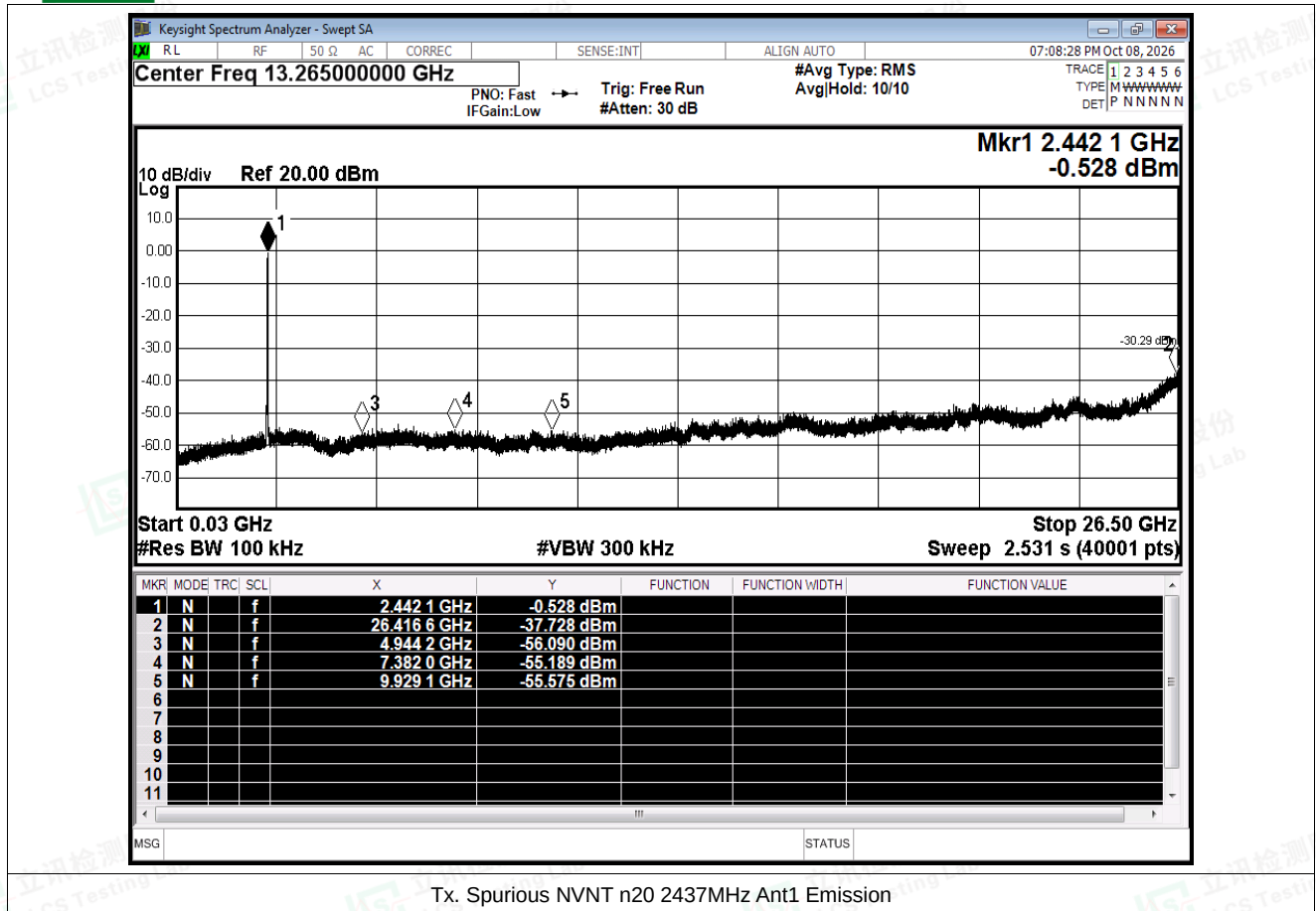
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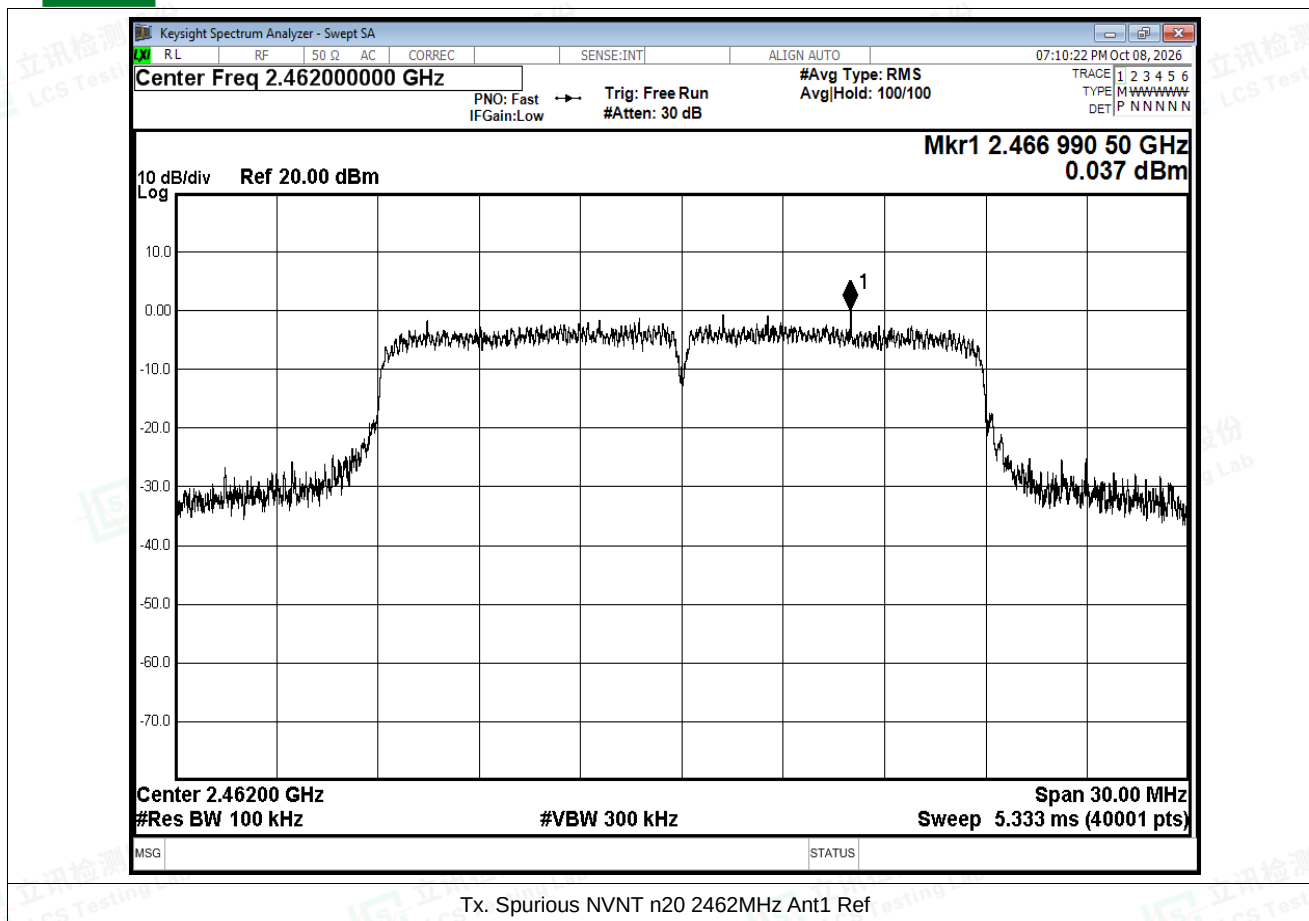
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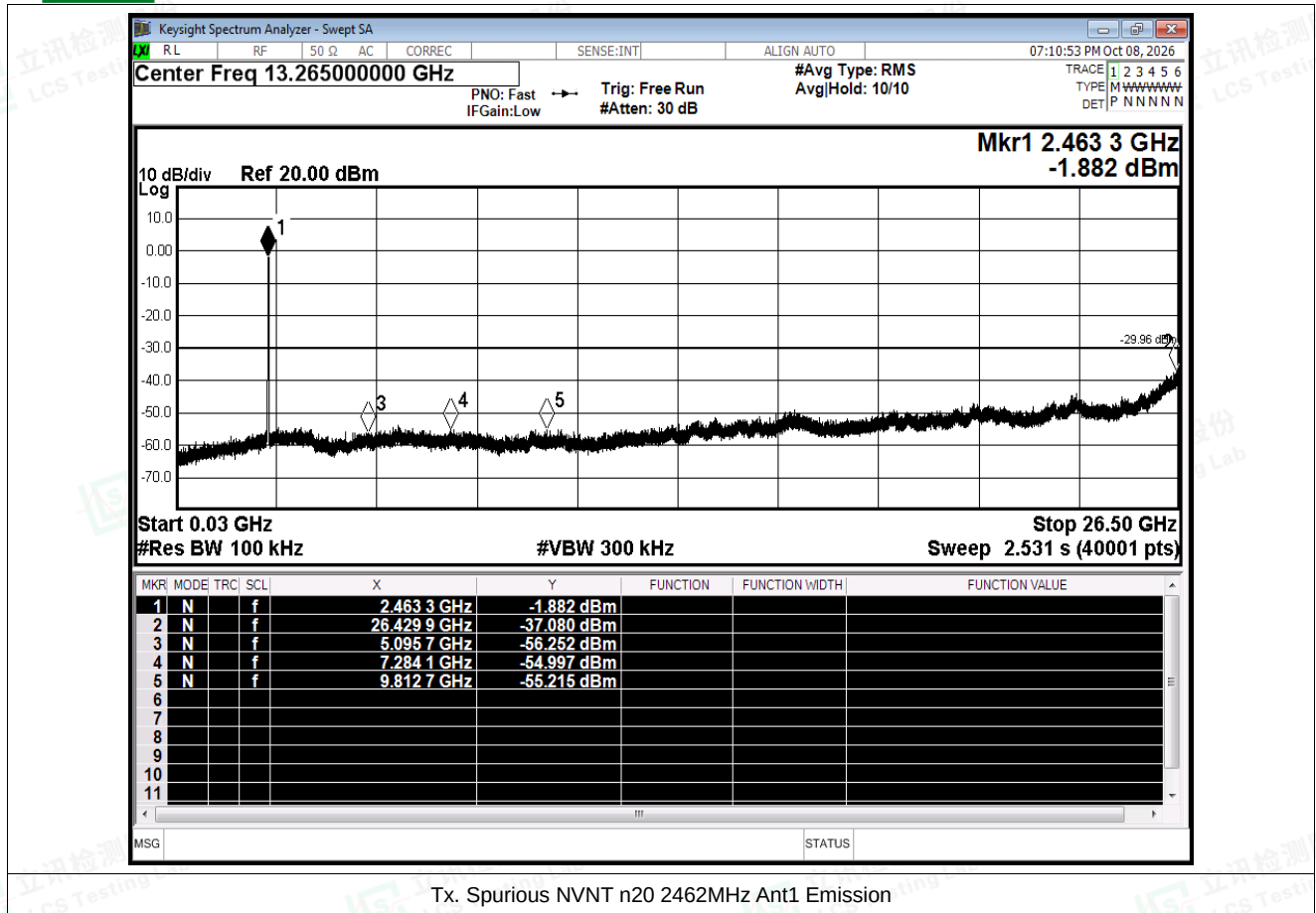
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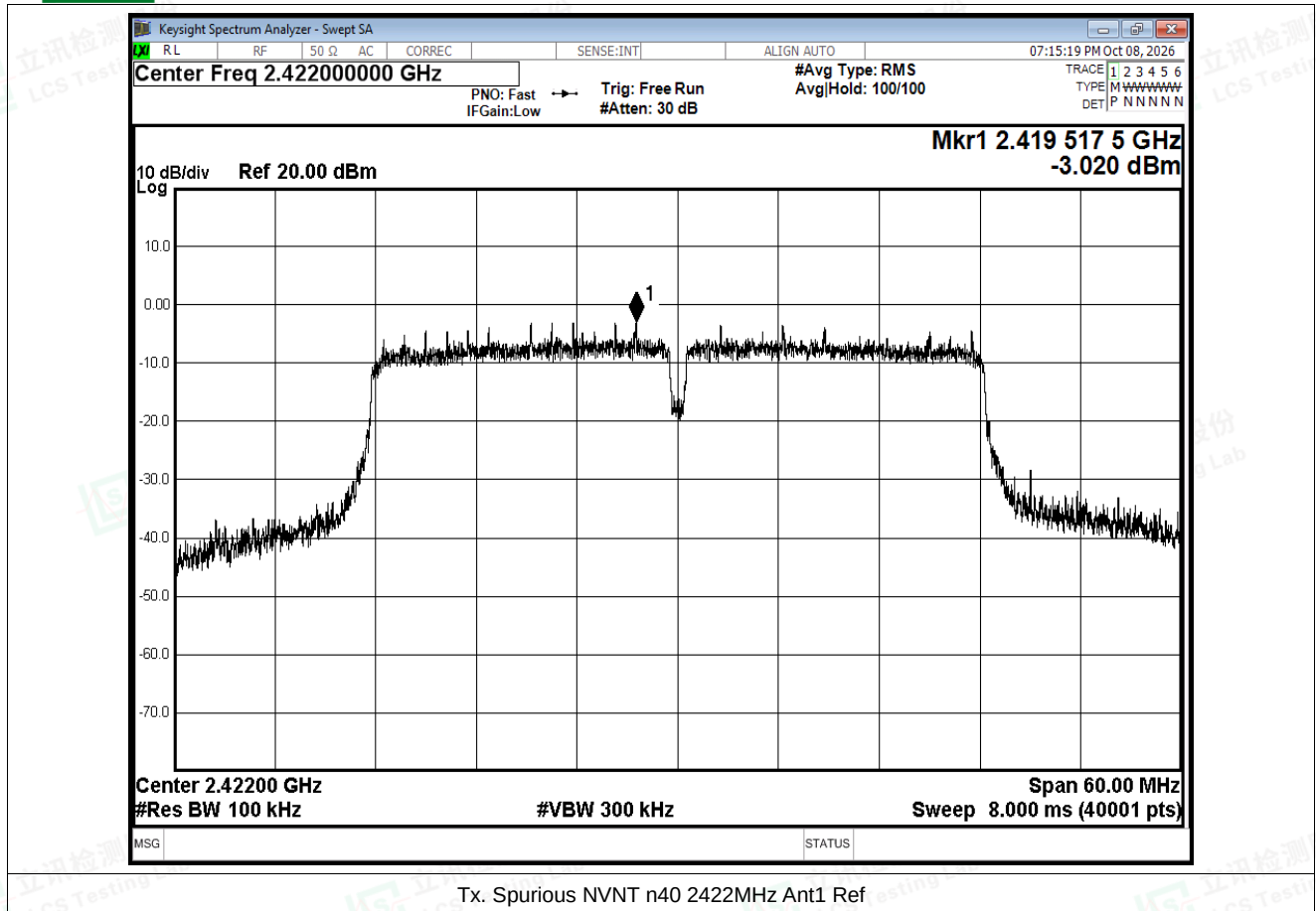
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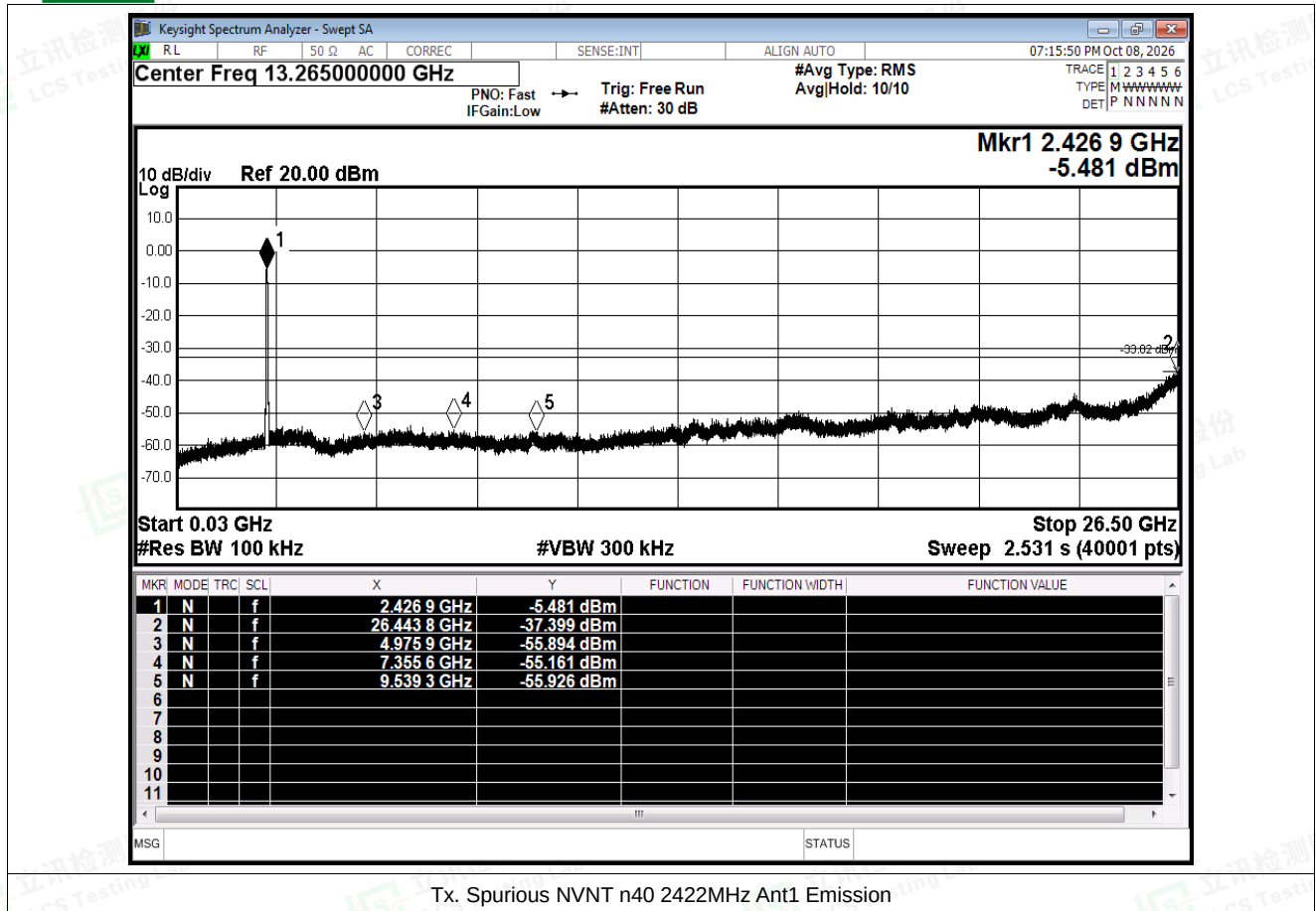
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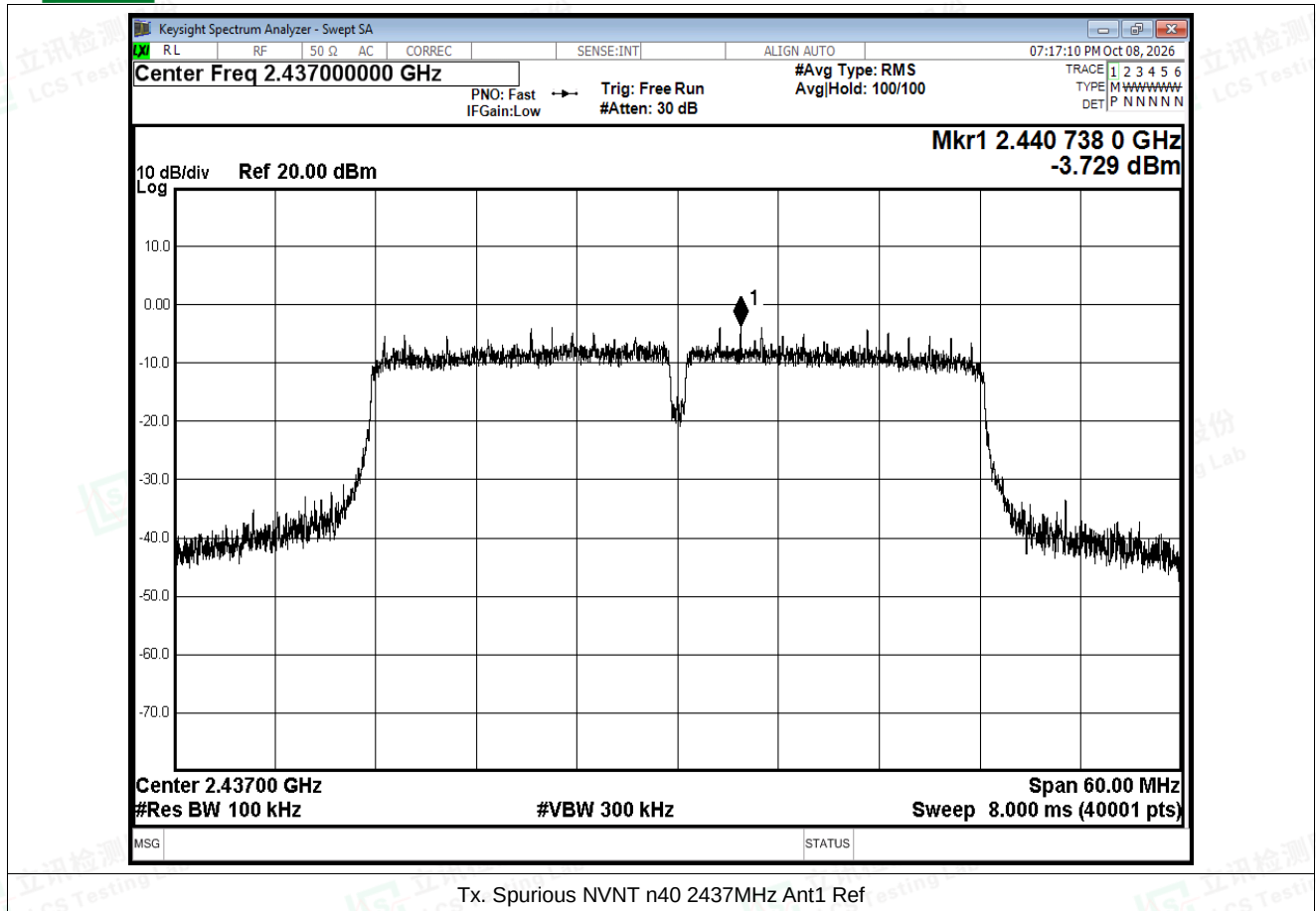
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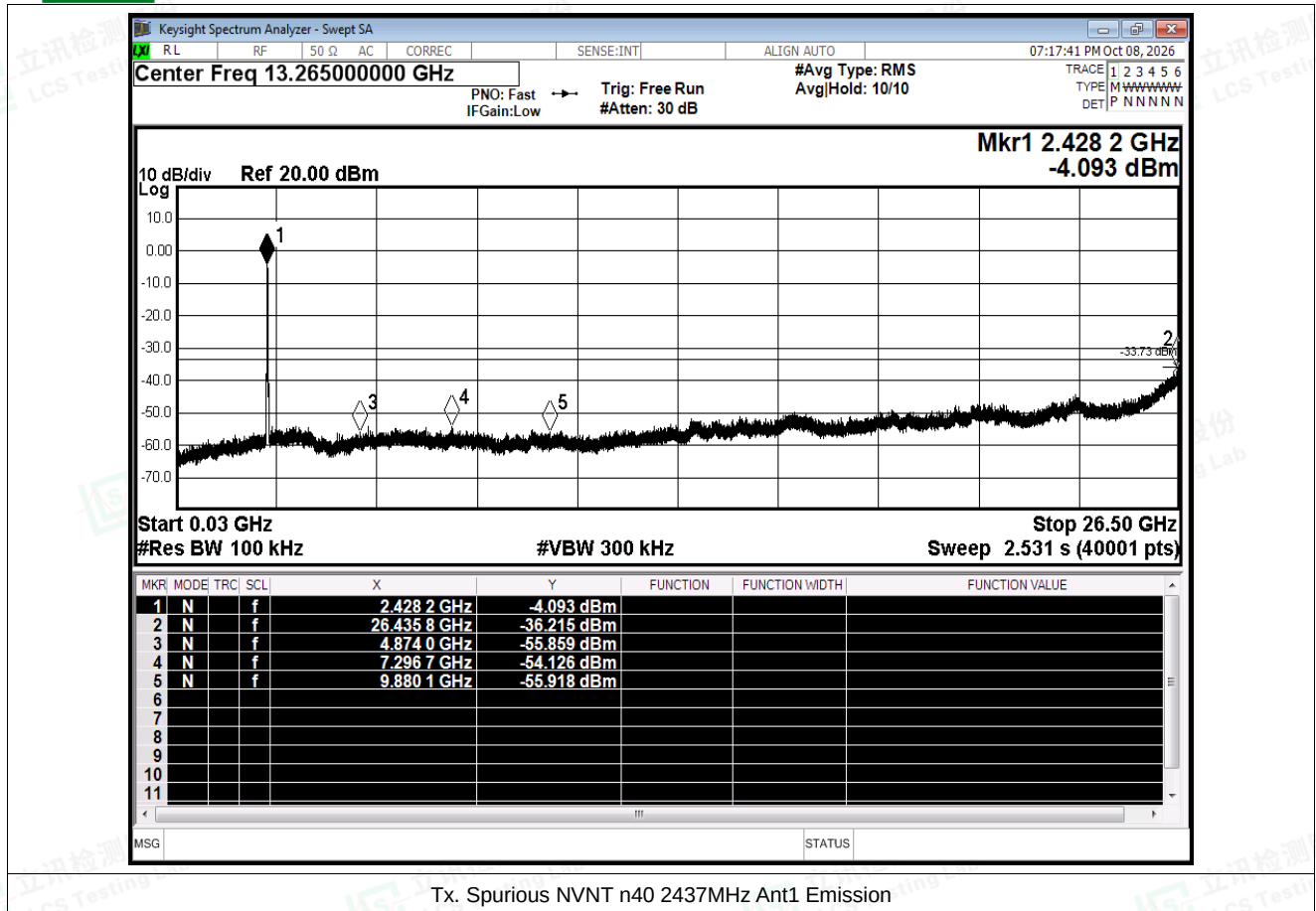
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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

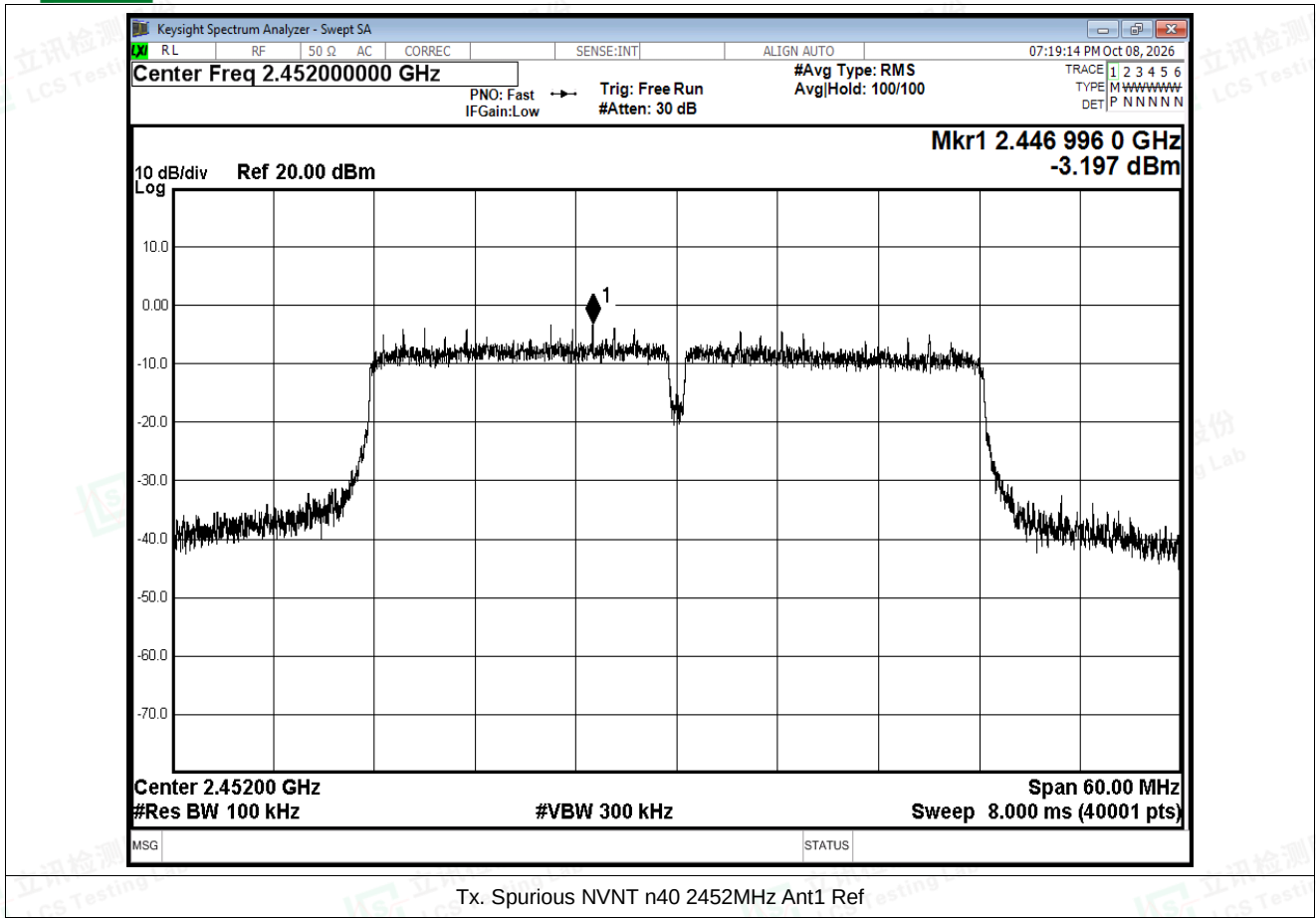
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



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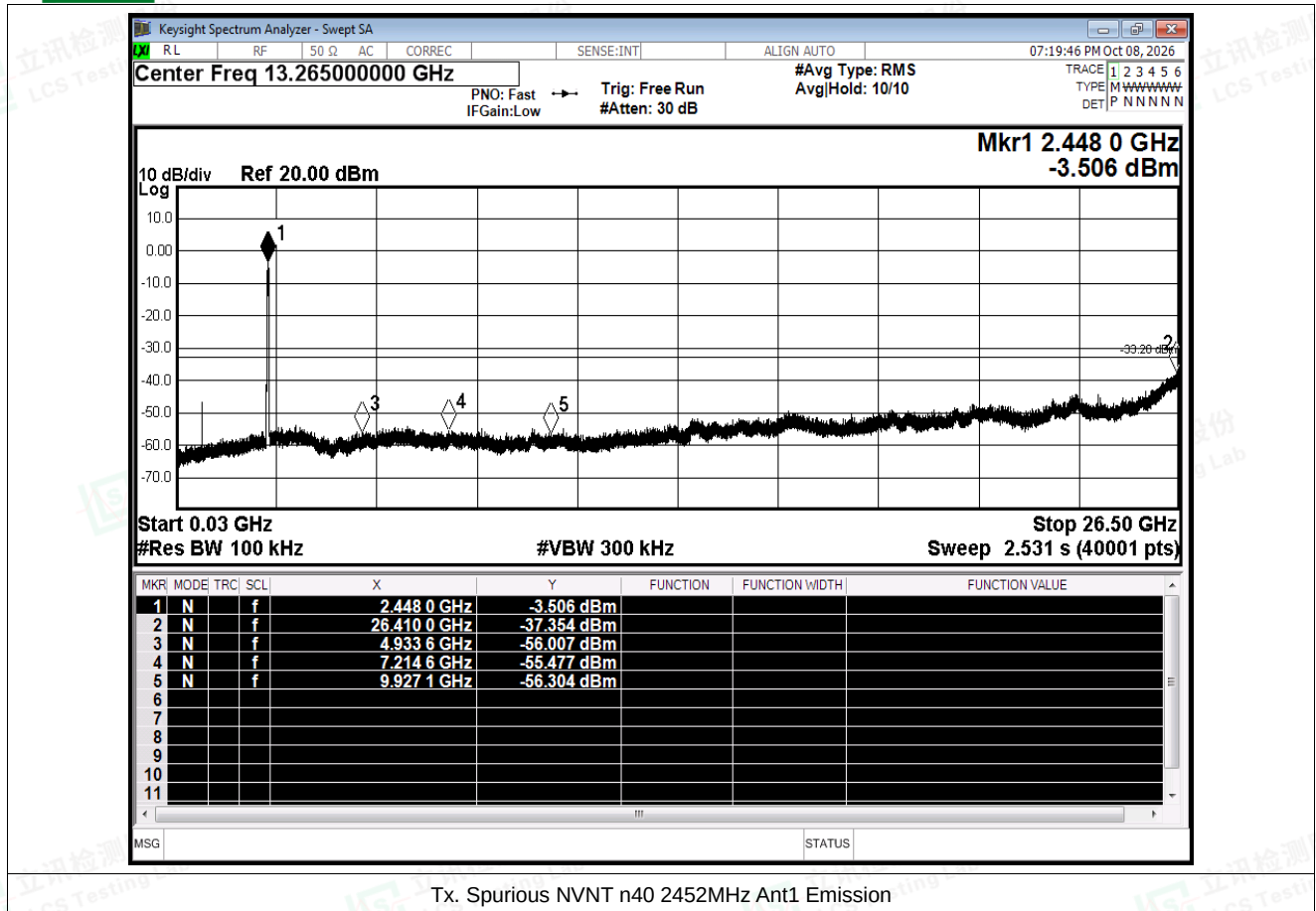
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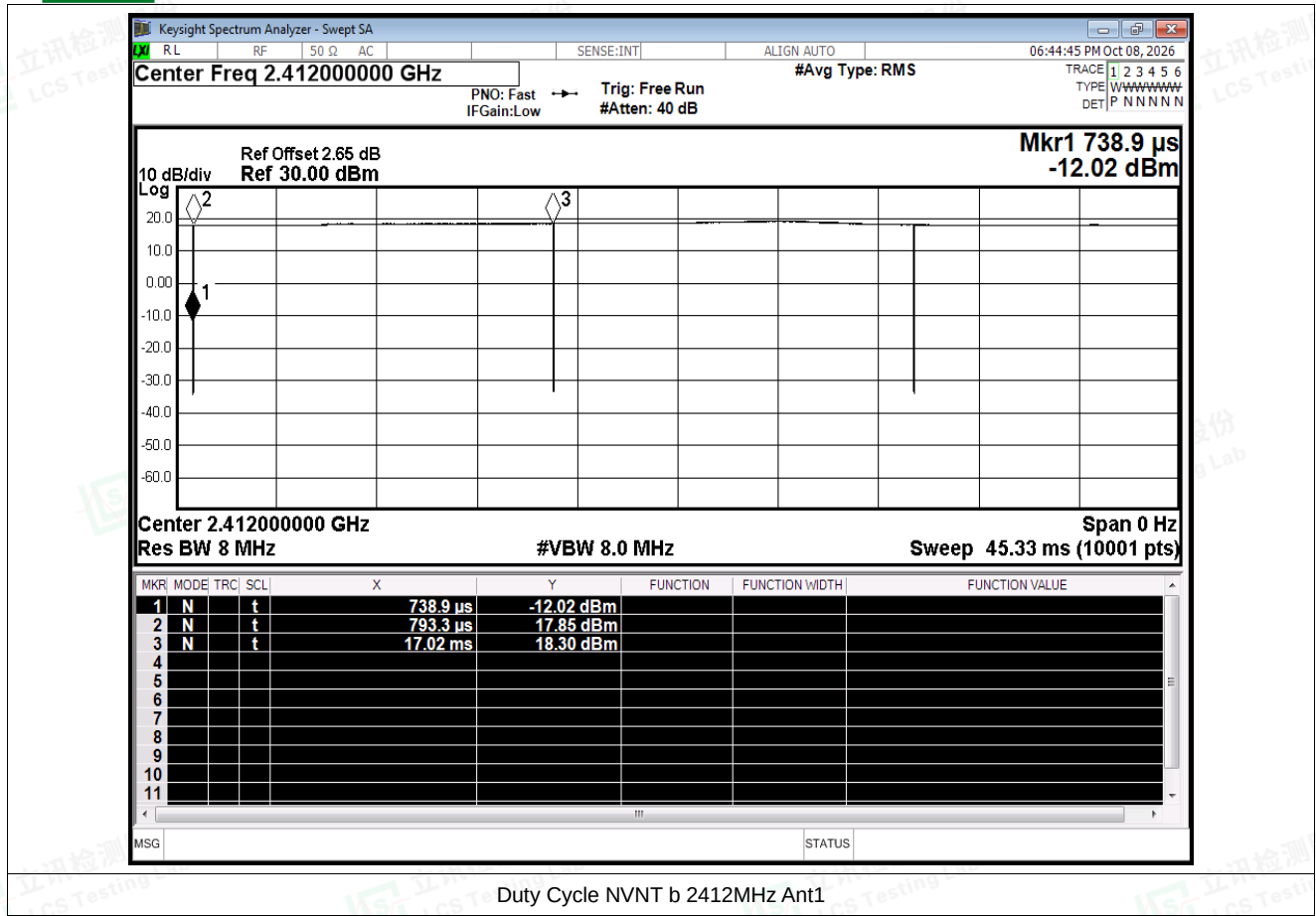
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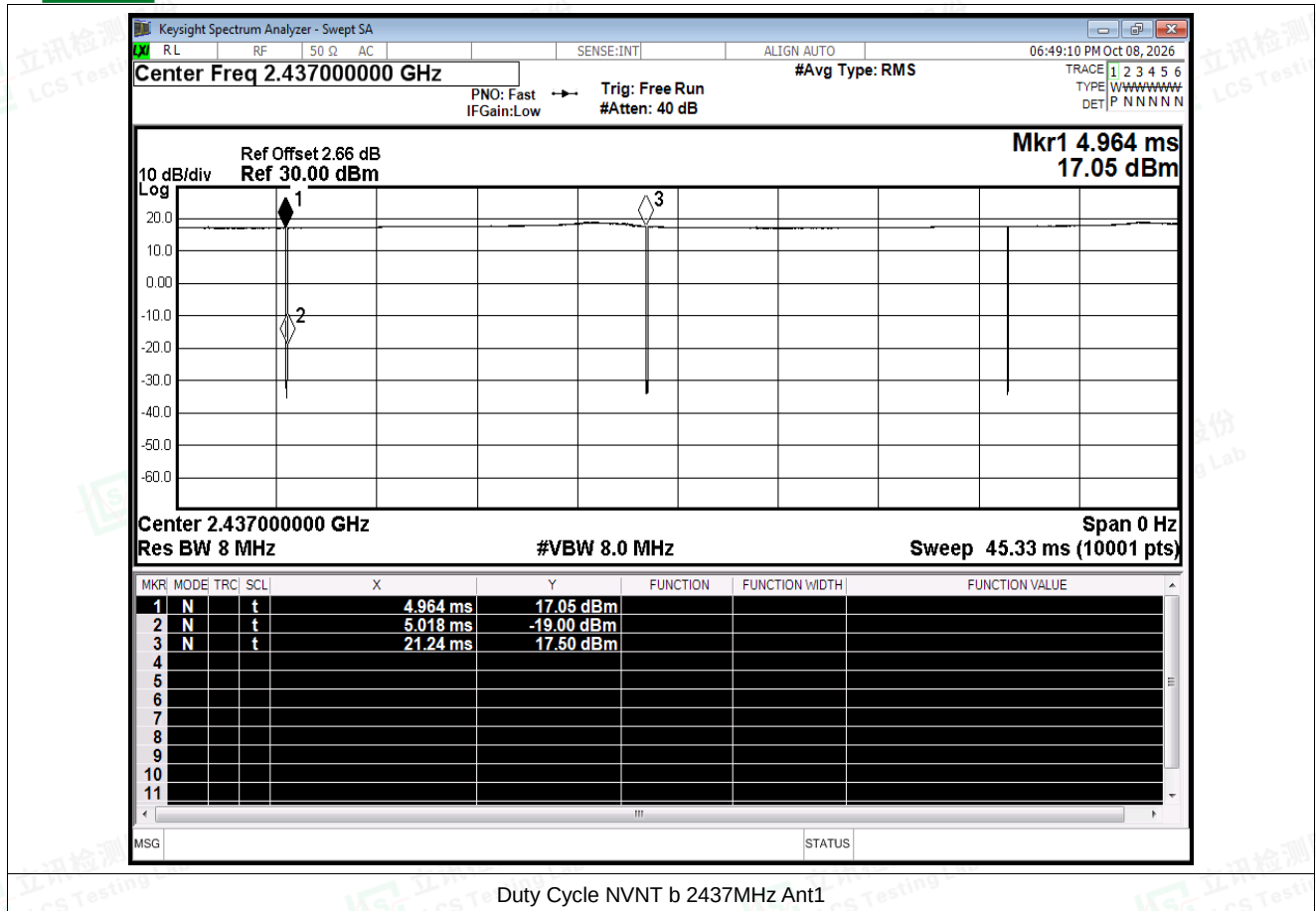
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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.67	0.01	0.06
NVNT	b	2437	Ant1	99.67	0.01	0.06
NVNT	b	2462	Ant1	99.64	0.02	0.06
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.68	0.1	0.37
NVNT	g	2462	Ant1	97.68	0.1	0.37
NVNT	n20	2412	Ant1	97.33	0.12	0.44
NVNT	n20	2437	Ant1	97.33	0.12	0.44
NVNT	n20	2462	Ant1	97.33	0.12	0.44
NVNT	n40	2422	Ant1	94.54	0.24	0.9
NVNT	n40	2437	Ant1	94.71	0.24	0.9
NVNT	n40	2452	Ant1	94.54	0.24	0.9

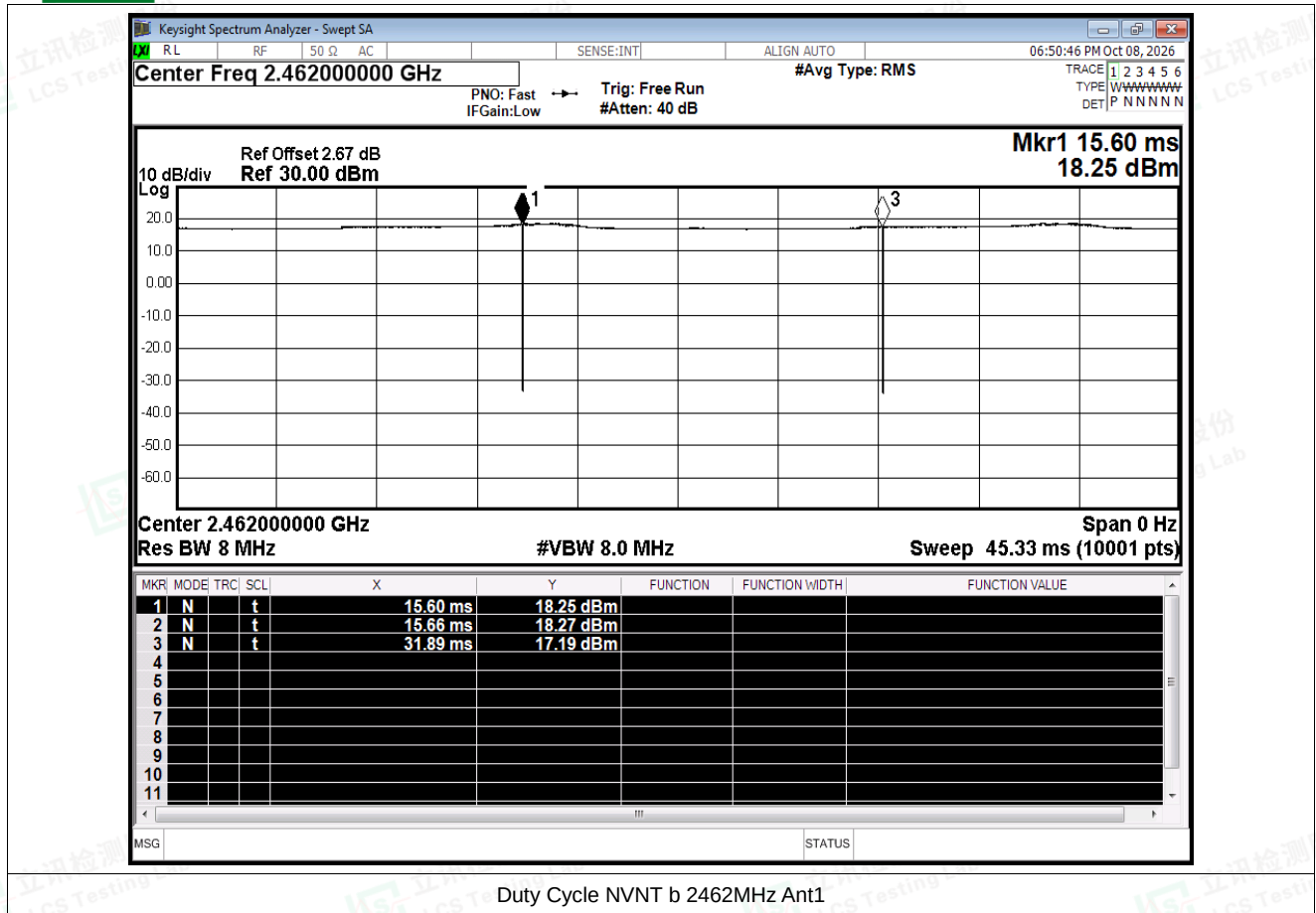




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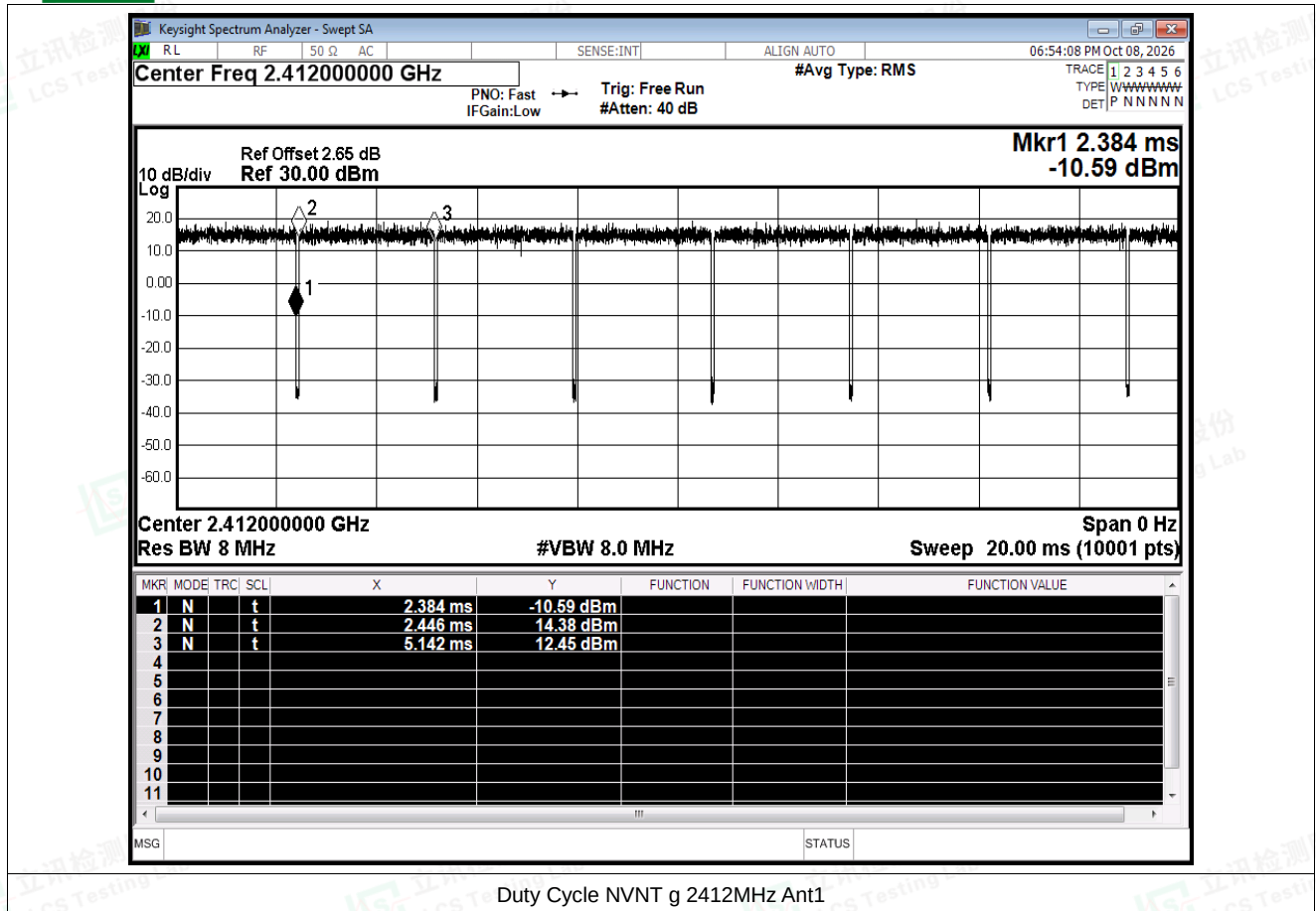
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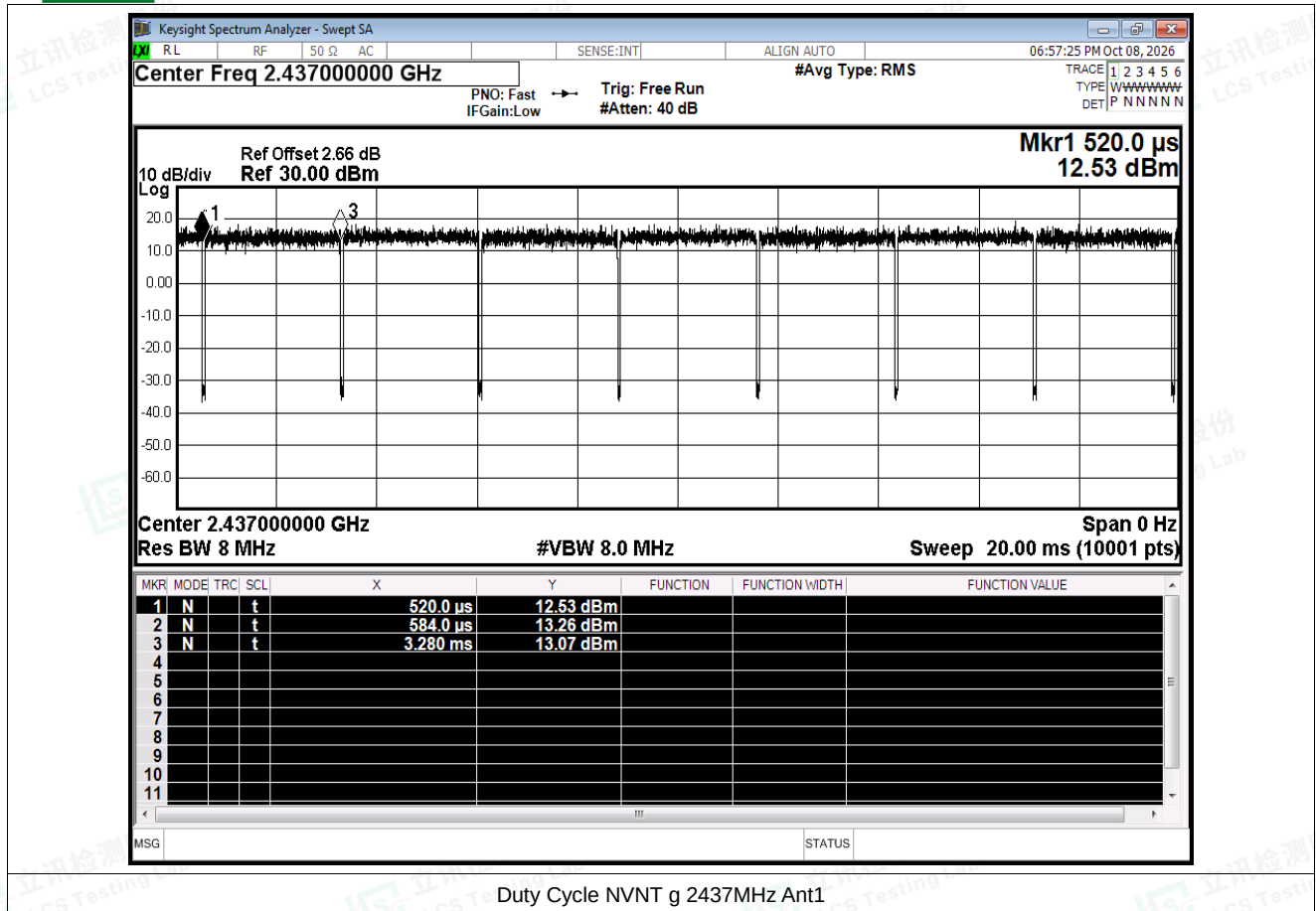
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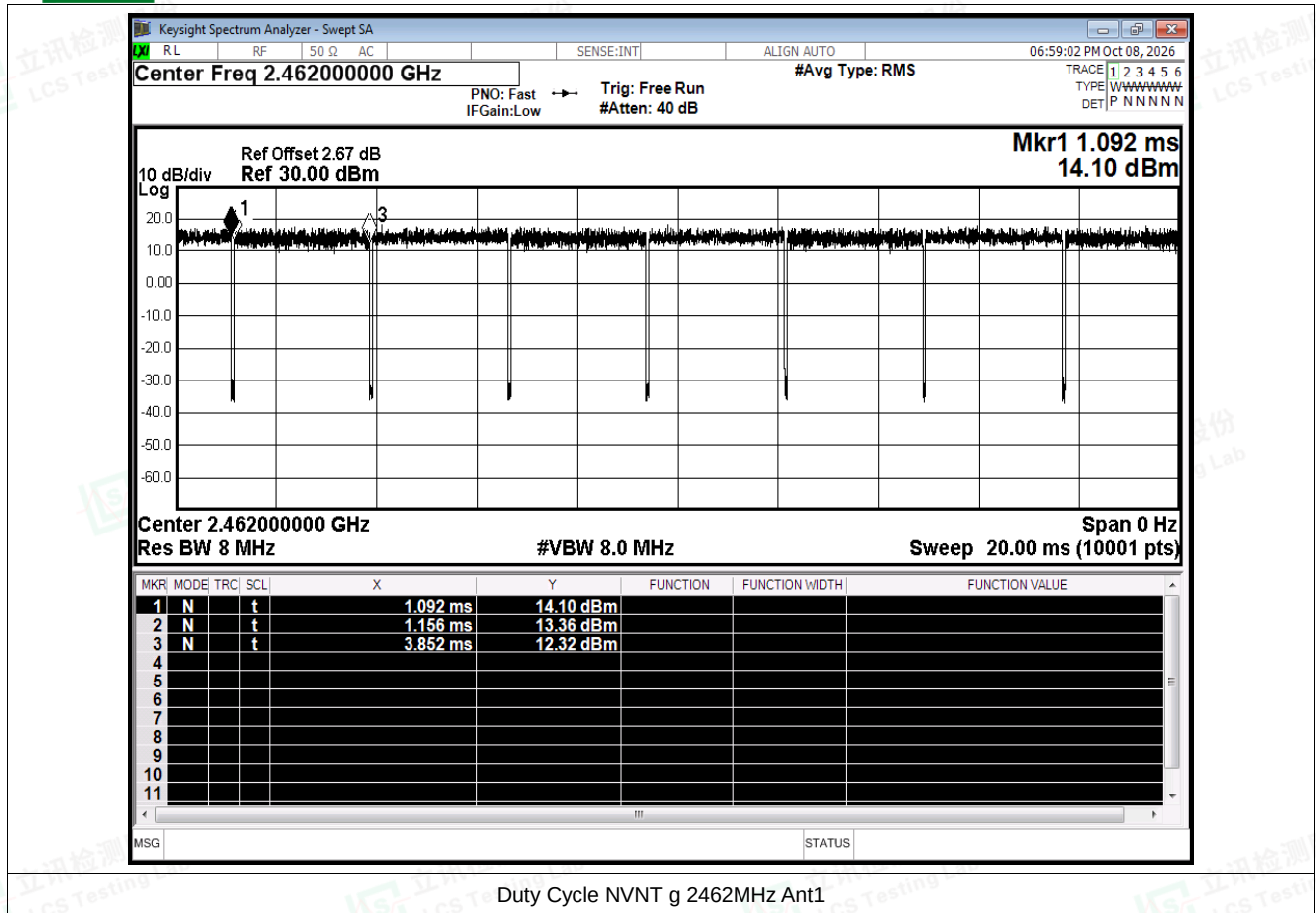
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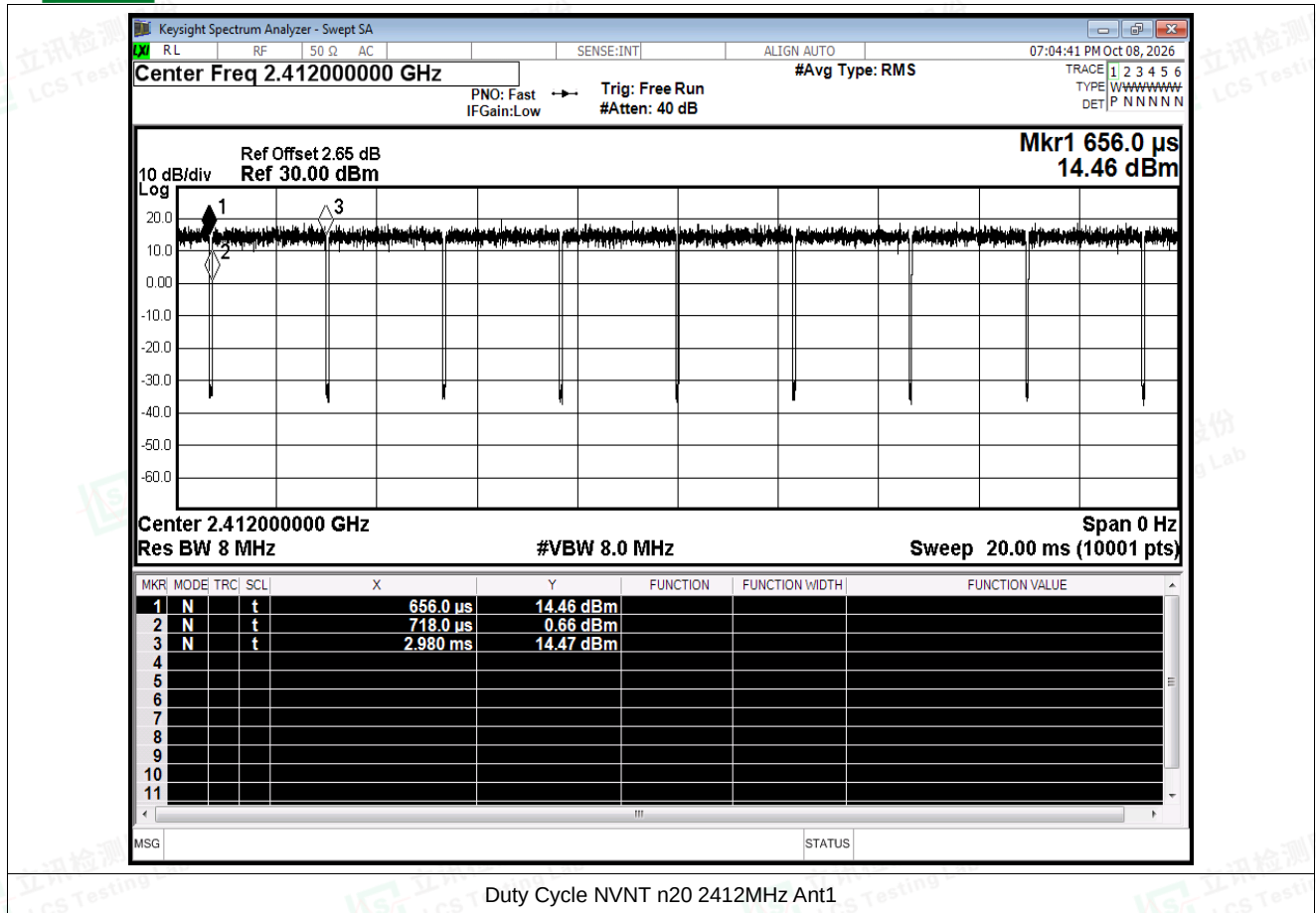
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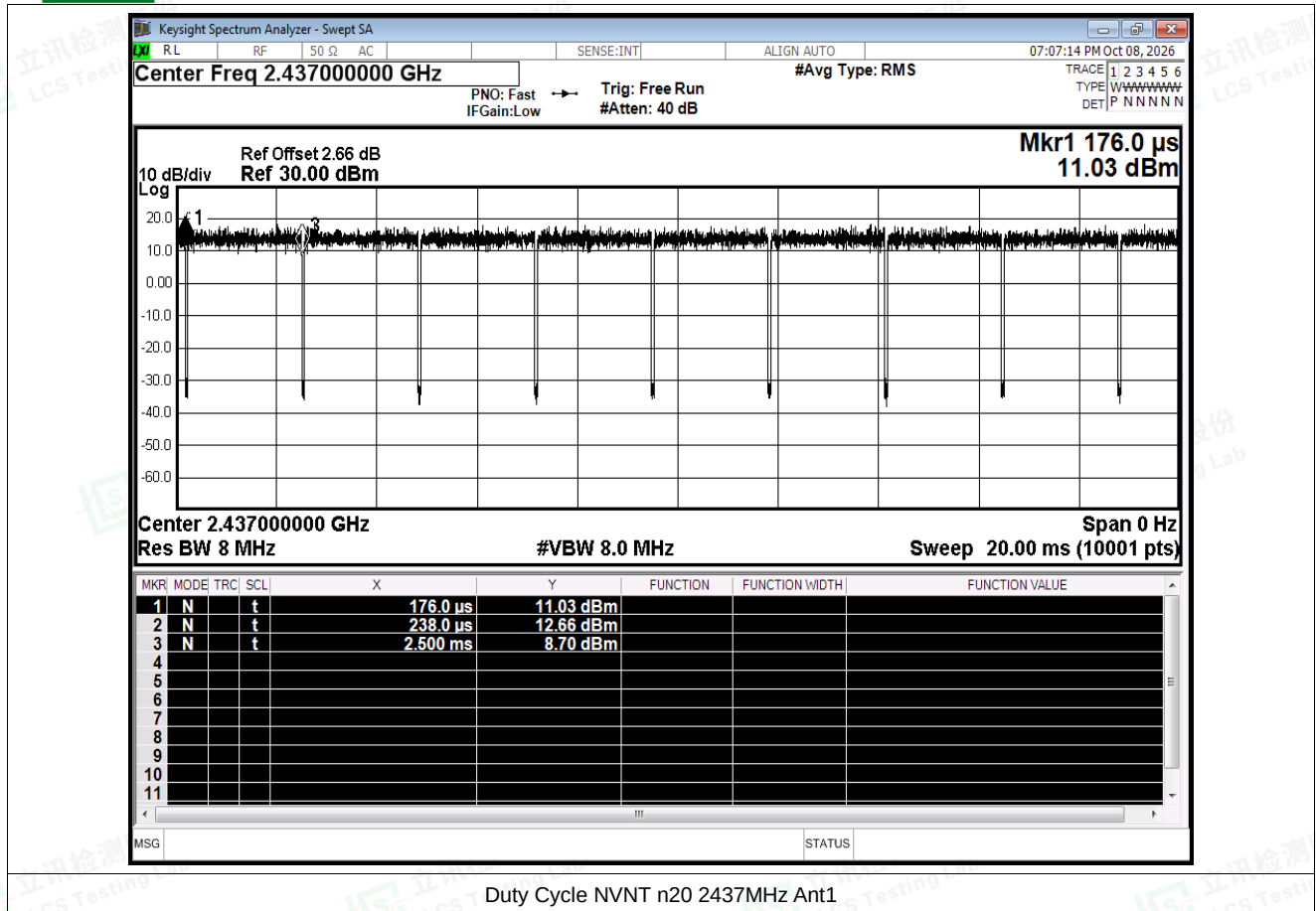
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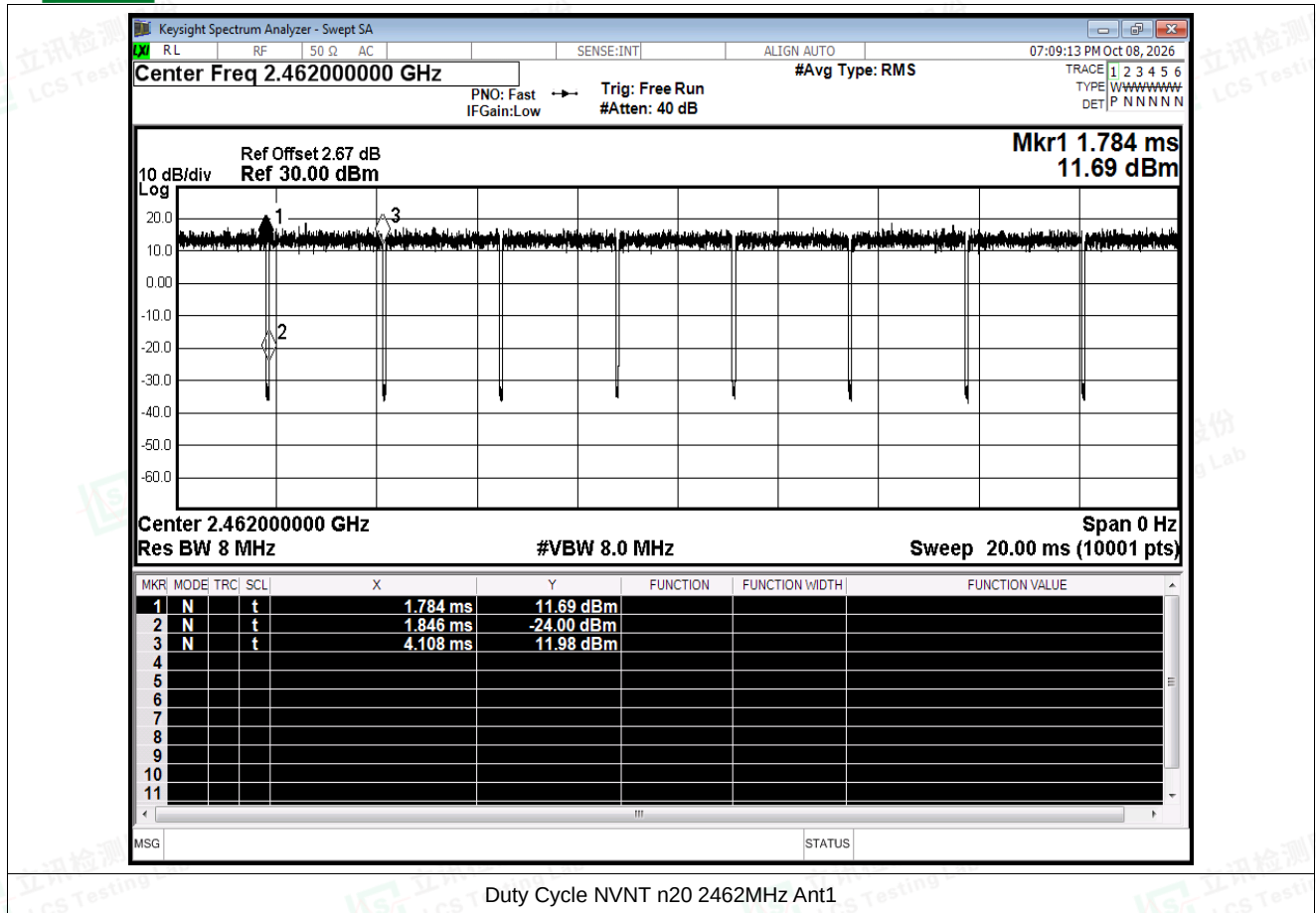
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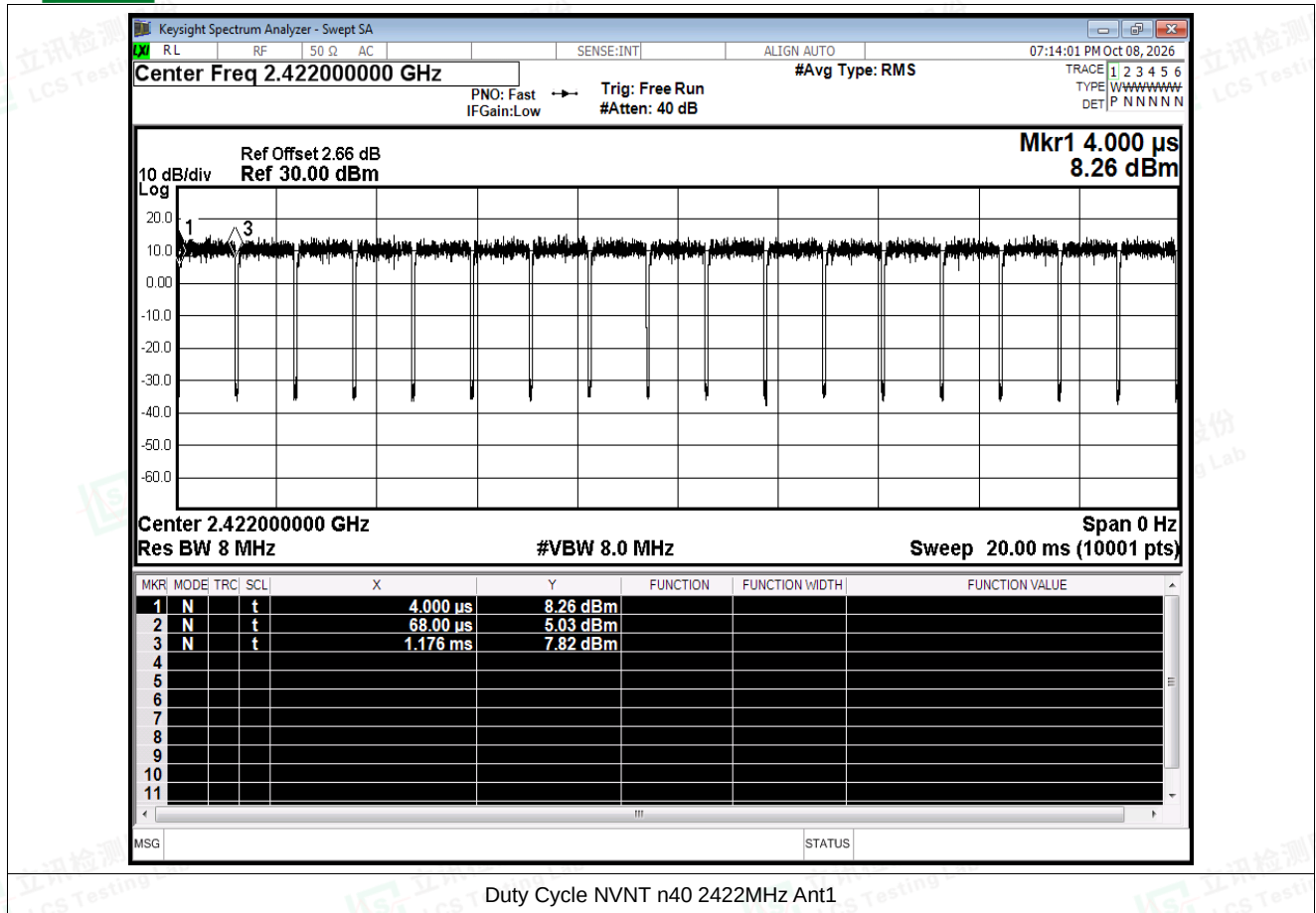
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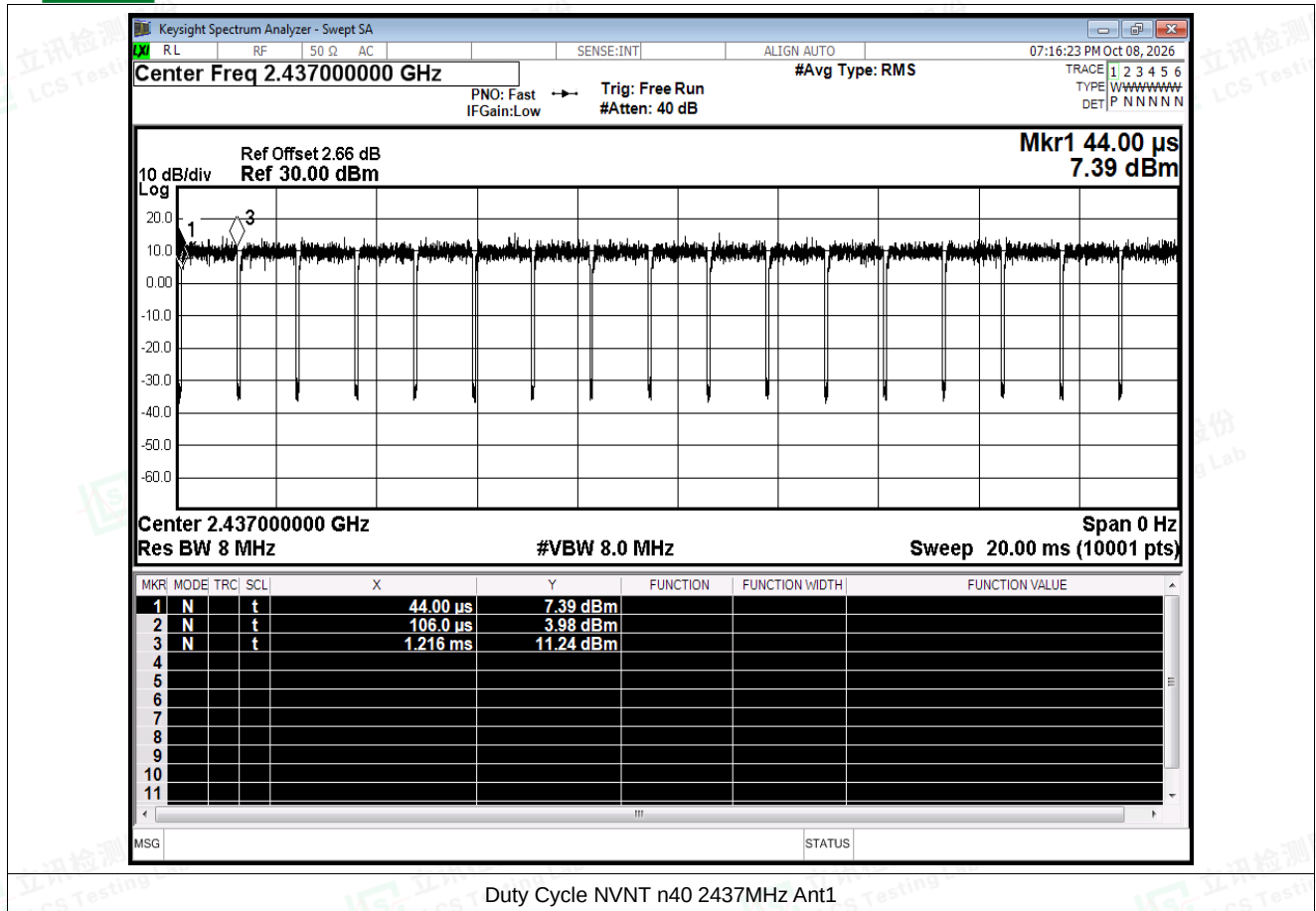
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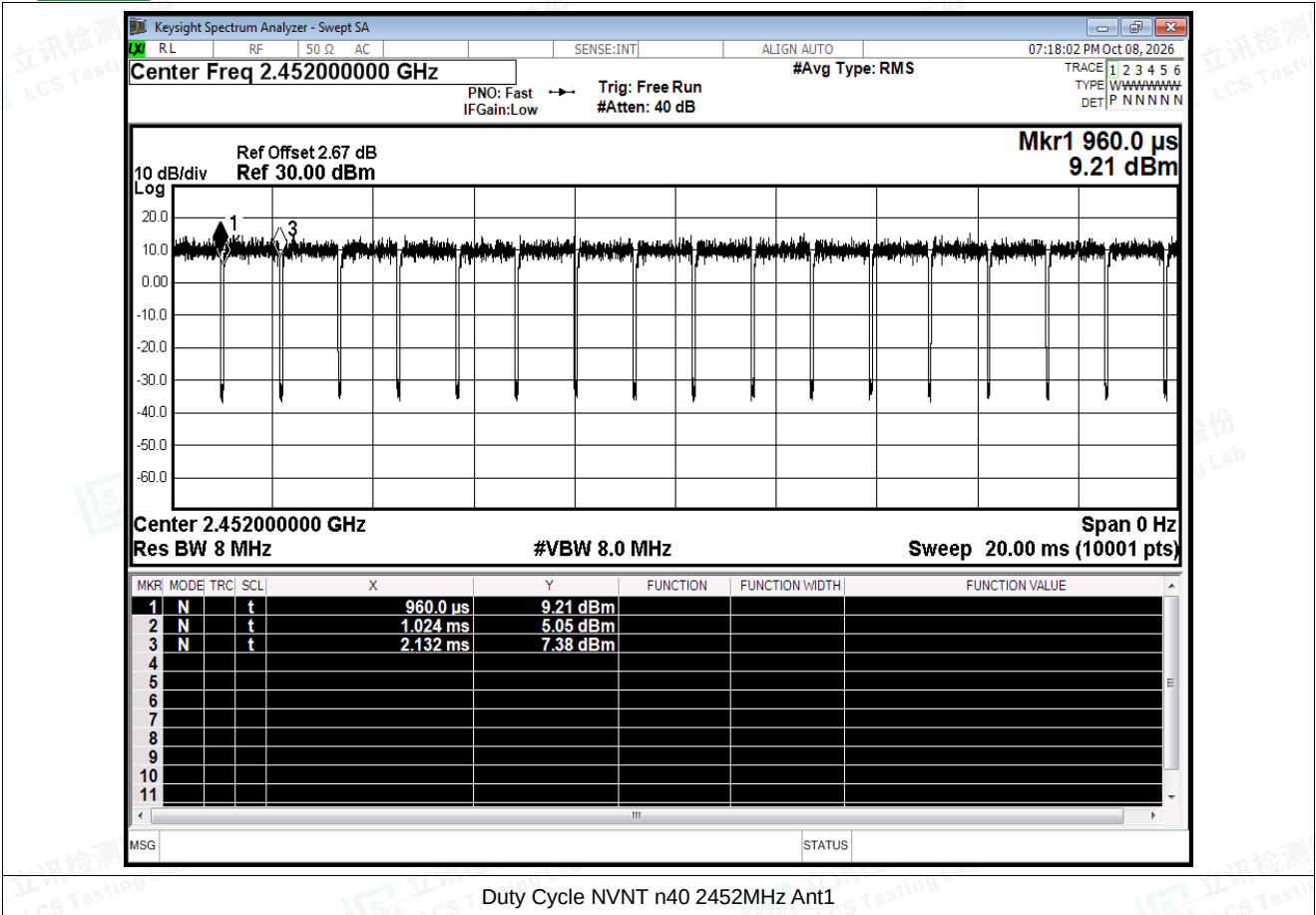
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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-48.99	3.37	49.64	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.25	3.37	41.38	Average	54	Pass
NVNT	b	2412	Ant1	2389.443	-46.25	3.37	52.38	Peak	74	Pass
NVNT	b	2412	Ant1	2387.103	-52.89	3.37	45.74	Average	54	Pass
NVNT	b	2412	Ant1	2390	-47.31	3.37	51.32	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.28	3.37	43.35	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.71	3.37	49.92	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55.31	3.37	43.32	Average	54	Pass
NVNT	b	2462	Ant1	2484.577	-41.14	3.37	57.49	Peak	74	Pass
NVNT	b	2462	Ant1	2487.386	-55.14	3.37	43.49	Average	54	Pass
NVNT	b	2462	Ant1	2500	-50.8	3.37	47.83	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.13	3.37	41.5	Average	54	Pass
NVNT	g	2412	Ant1	2310	-48.71	3.37	49.92	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.01	3.37	41.62	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-38.11	3.37	60.52	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-51.92	3.37	46.71	Average	54	Pass
NVNT	g	2412	Ant1	2390	-39.49	3.37	59.14	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-52.24	3.37	46.39	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-39.37	3.37	59.26	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-50.79	3.37	47.84	Average	54	Pass
NVNT	g	2462	Ant1	2484.047	-35.04	3.37	63.59	Peak	74	Pass
NVNT	g	2462	Ant1	2483.623	-50.58	3.37	48.05	Average	54	Pass
NVNT	g	2462	Ant1	2500	-48.57	3.37	50.06	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-56.93	3.37	41.7	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.93	3.37	47.7	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-56.9	3.37	41.73	Average	54	Pass
NVNT	n20	2412	Ant1	2388.39	-35.95	3.37	62.68	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-50.11	3.37	48.52	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-36.16	3.37	62.47	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-49.91	3.37	48.72	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-35.35	3.37	63.28	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-47.98	3.37	50.65	Average	54	Pass
NVNT	n20	2462	Ant1	2483.835	-29.8	3.37	68.83	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-47.98	3.37	50.65	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-48.36	3.37	50.27	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-56.87	3.37	41.76	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-50.32	3.37	48.31	Peak	74	Pass

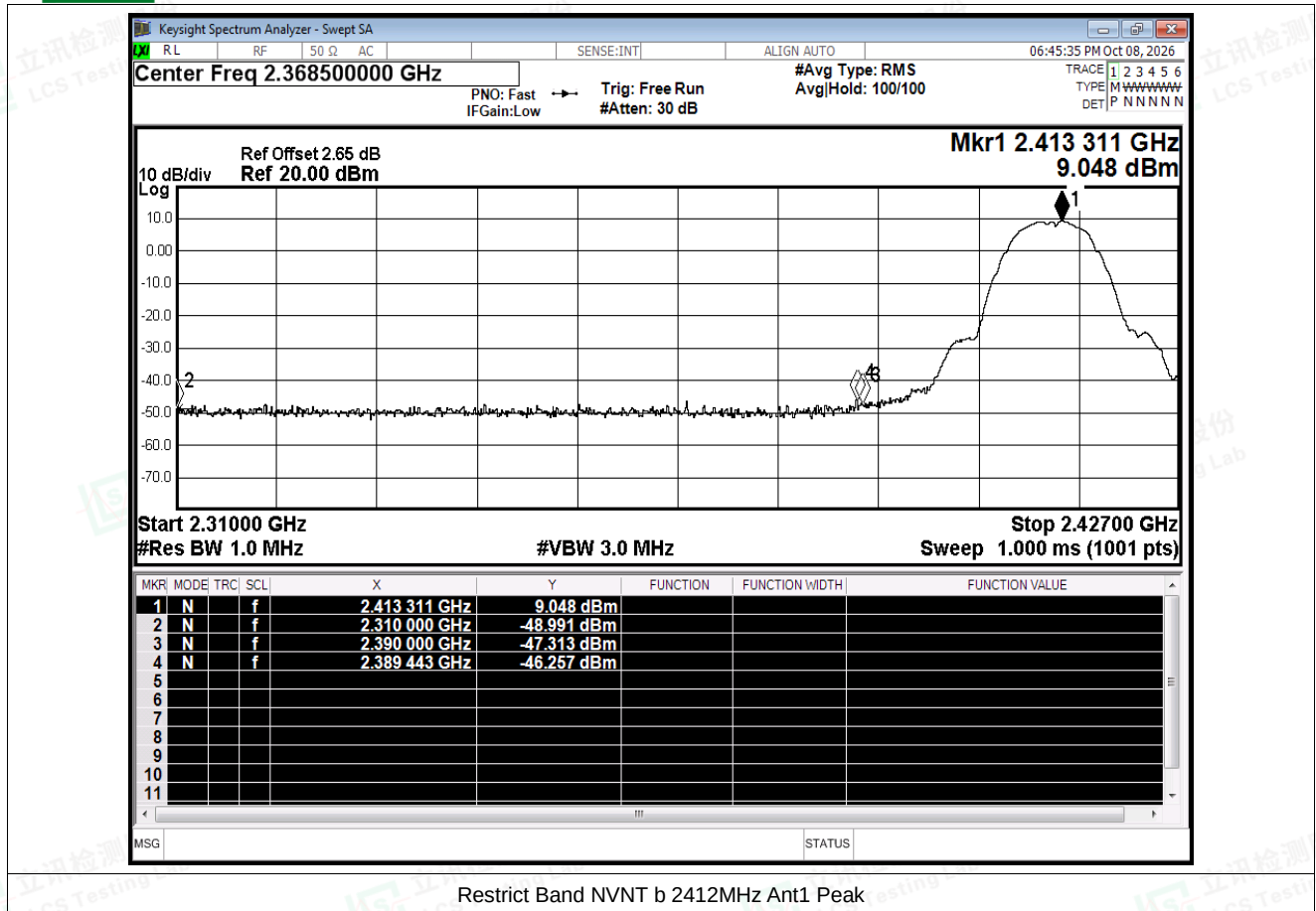
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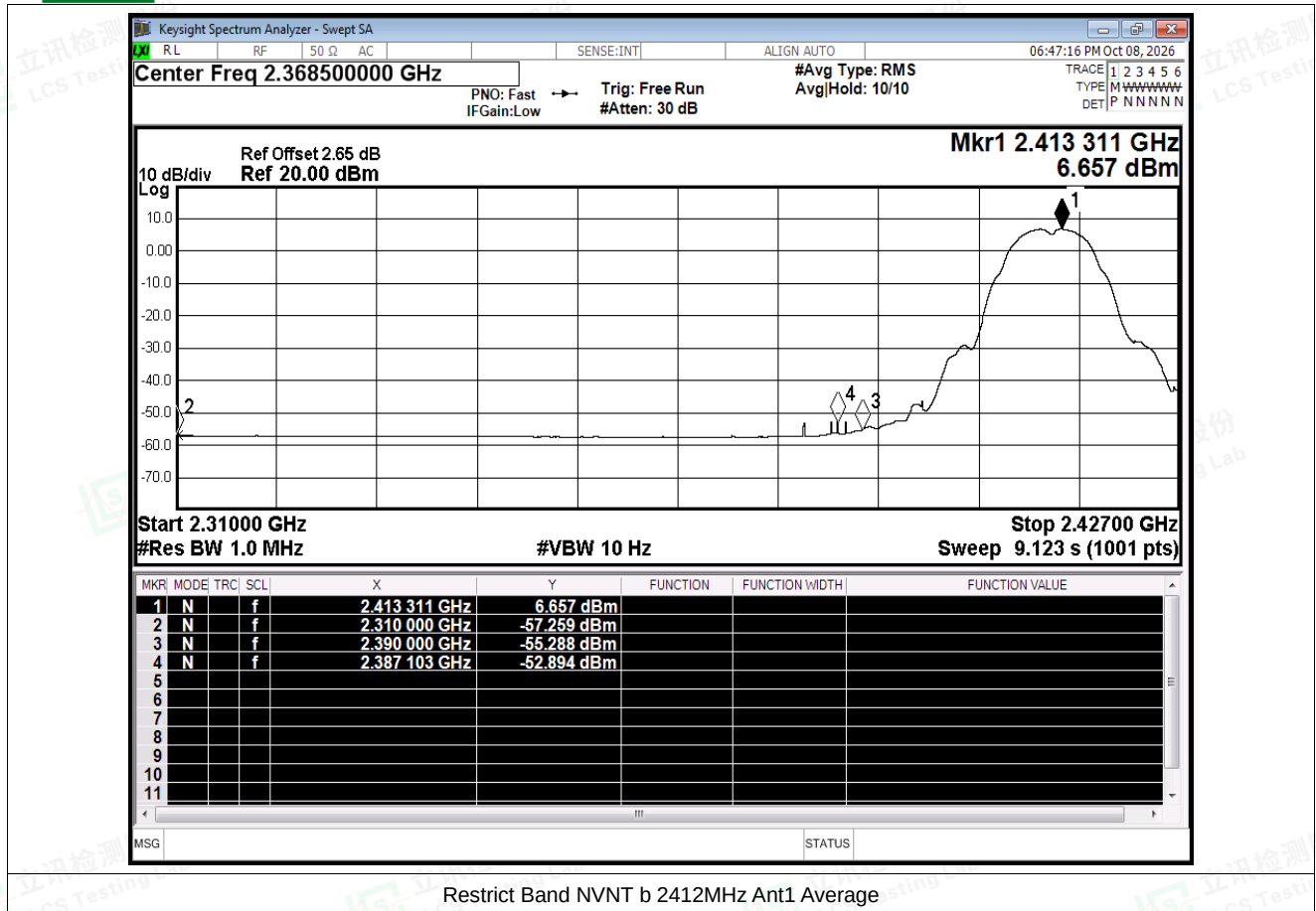
NVNT	n40	2422	Ant1	2310	-56.82	3.37	41.81	Average	54	Pass
NVNT	n40	2422	Ant1	2388.668	-37.44	3.37	61.19	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.662	-49.87	3.37	48.76	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-37.87	3.37	60.76	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-49.49	3.37	49.14	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-35.66	3.37	62.97	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-45.85	3.37	52.78	Average	54	Pass
NVNT	n40	2452	Ant1	2484.166	-28.68	3.37	69.95	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.542	-45.85	3.37	52.78	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-49.68	3.37	48.95	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-56.78	3.37	41.85	Average	54	Pass



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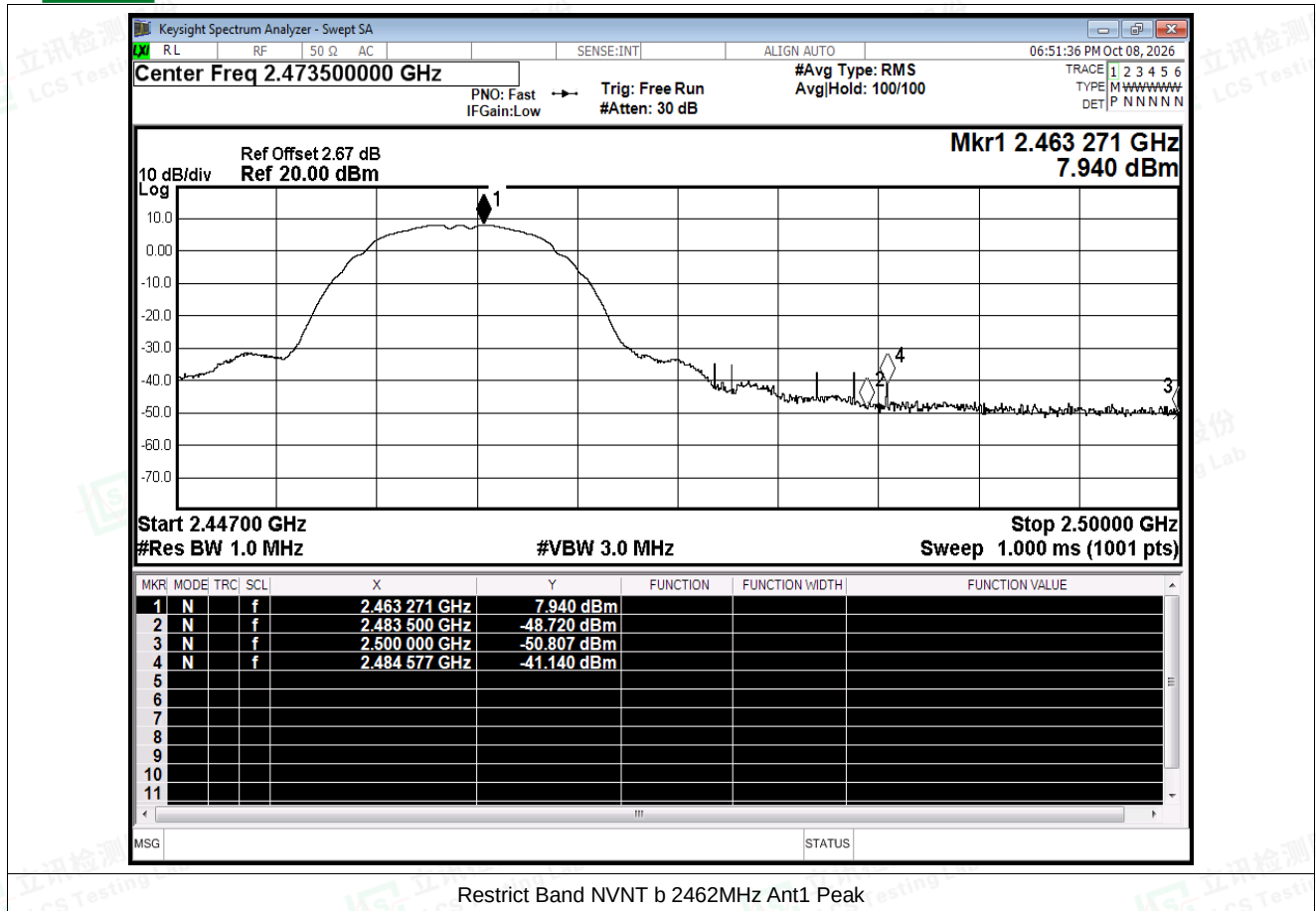
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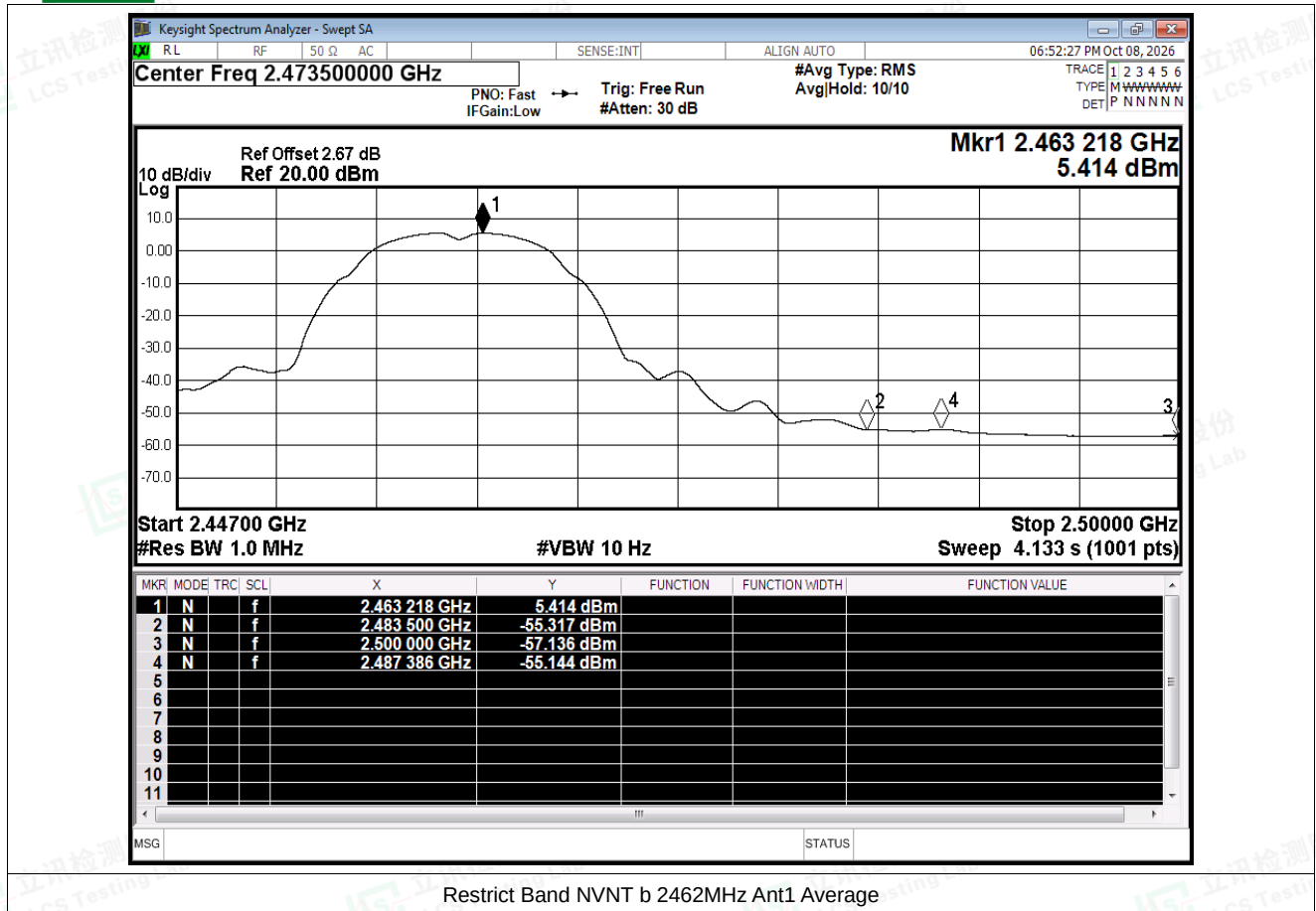
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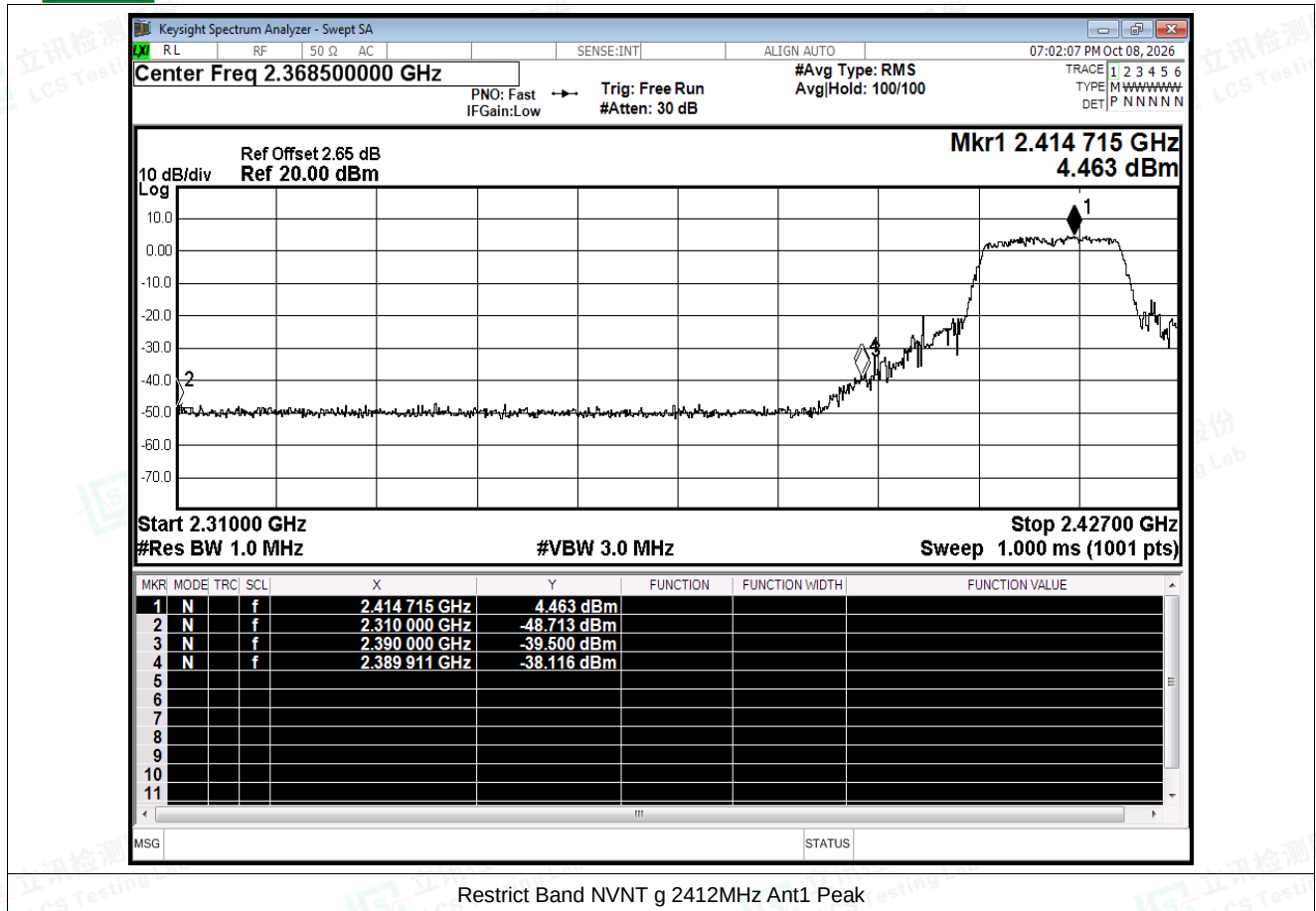
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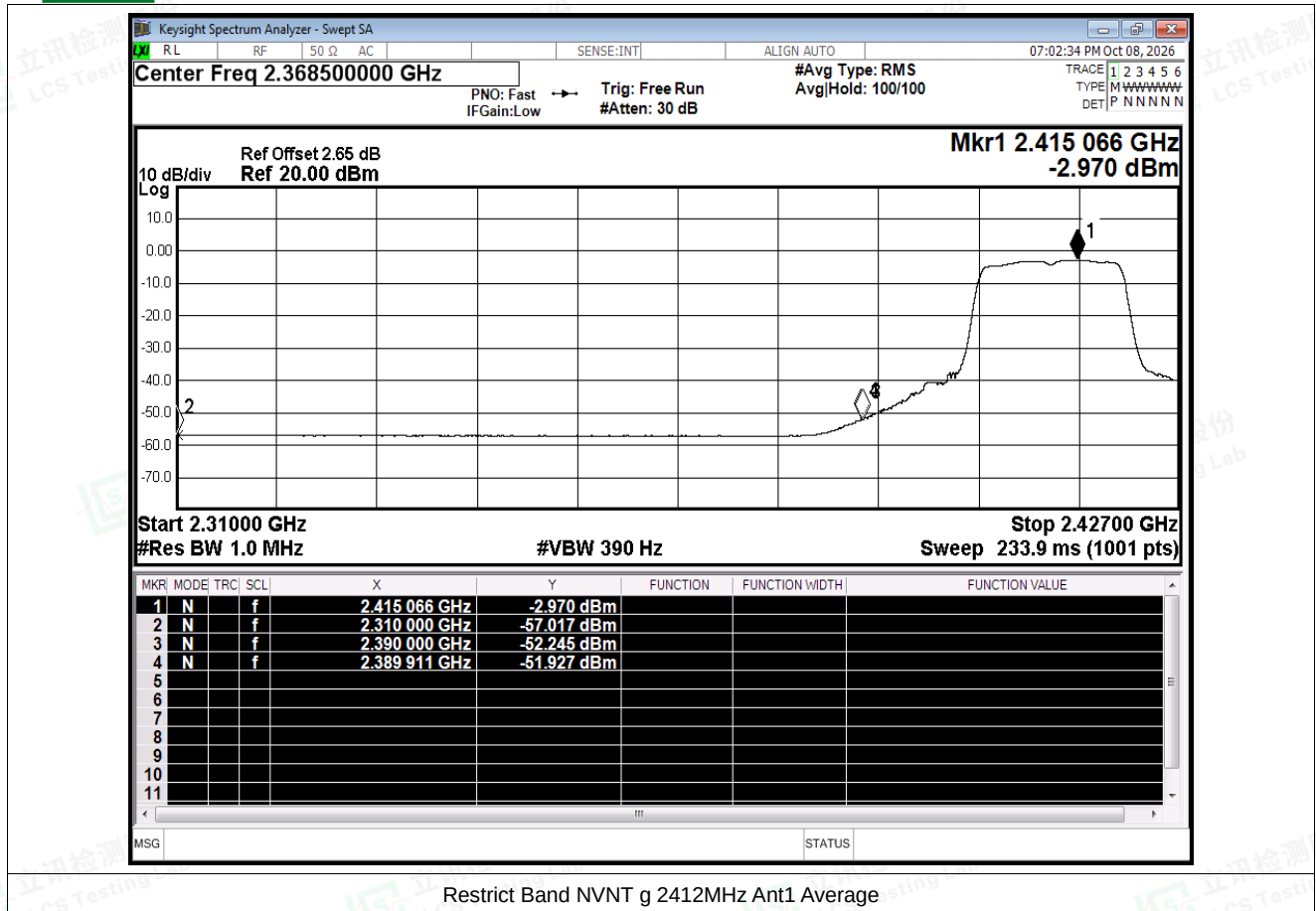
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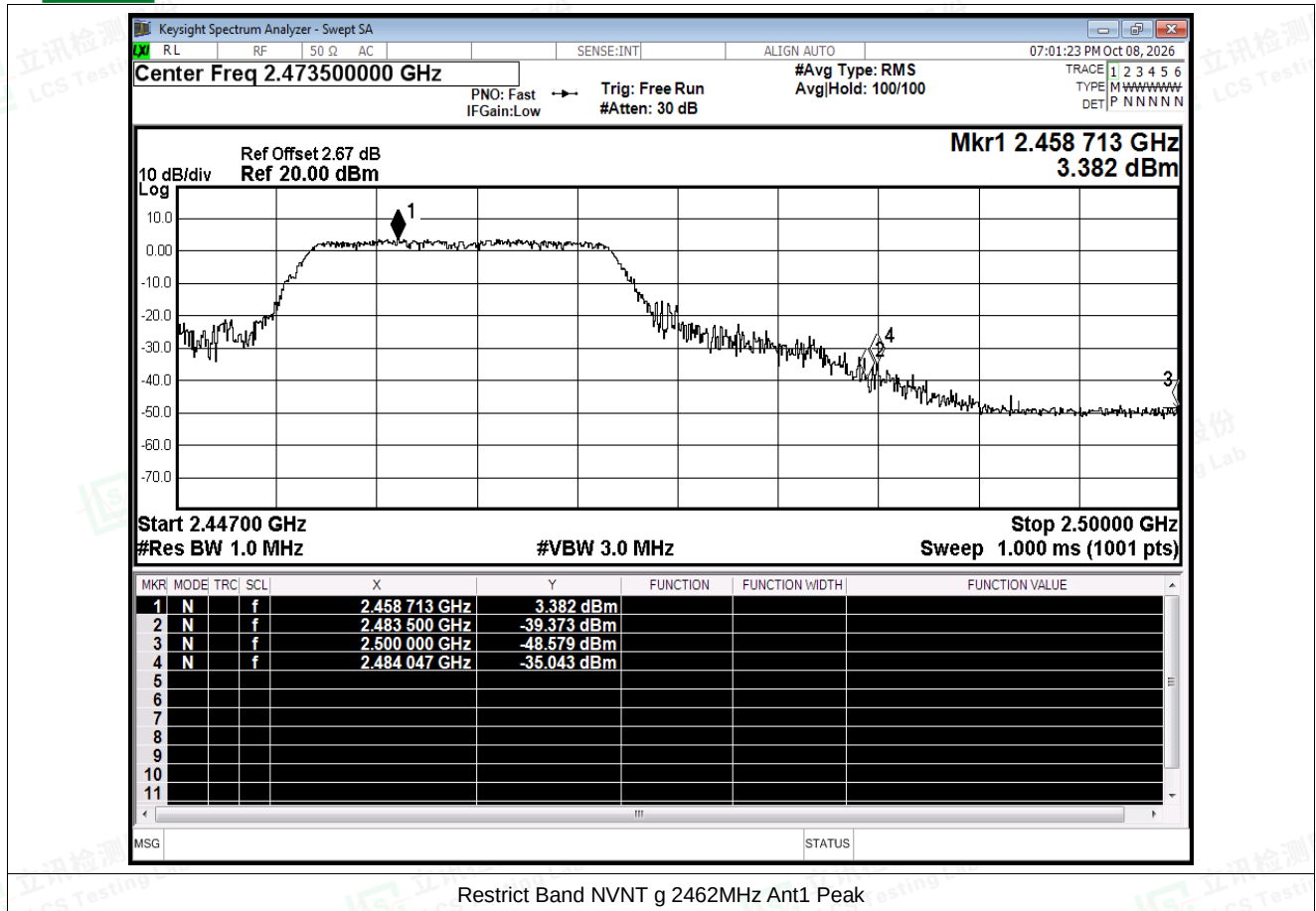
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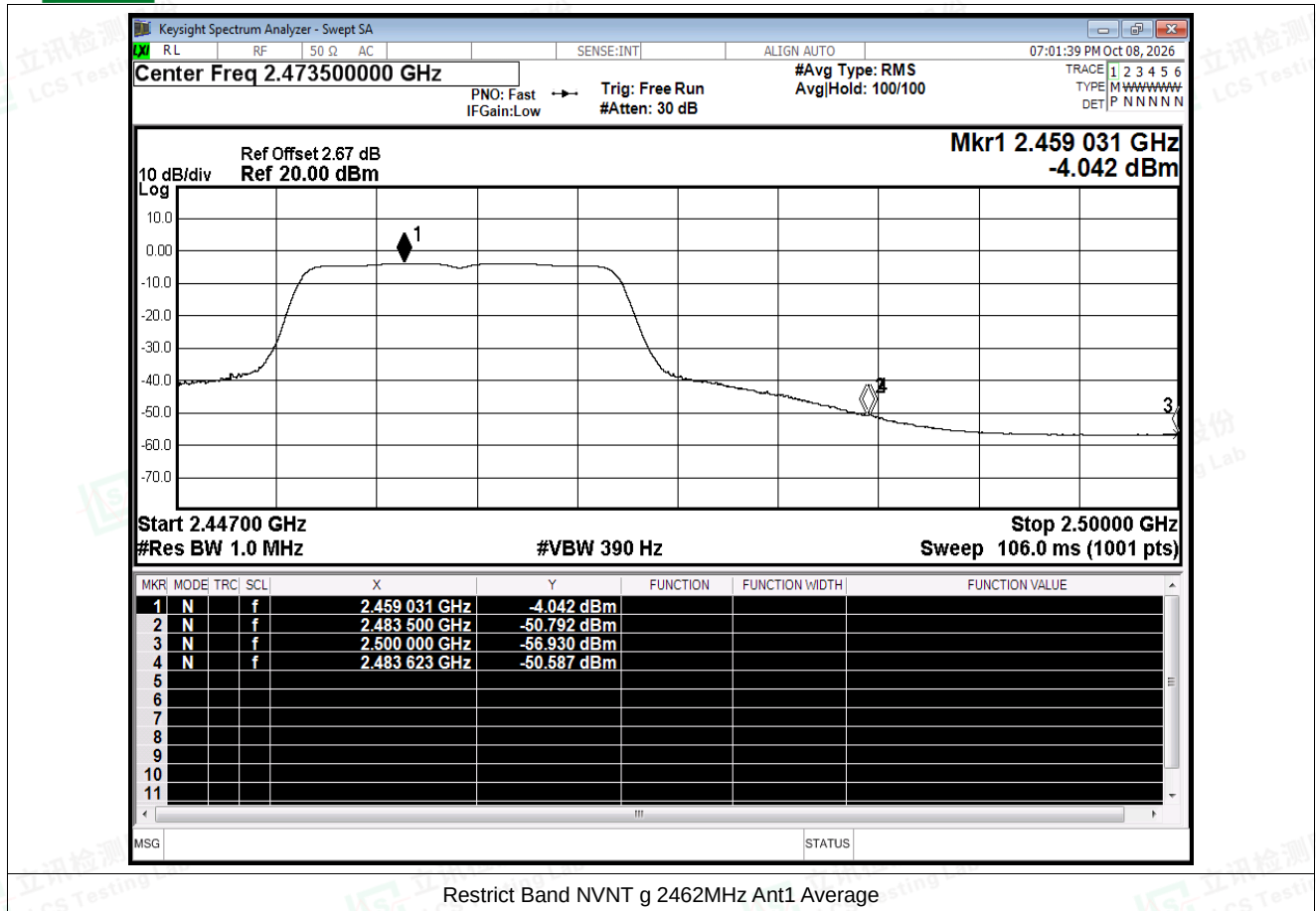
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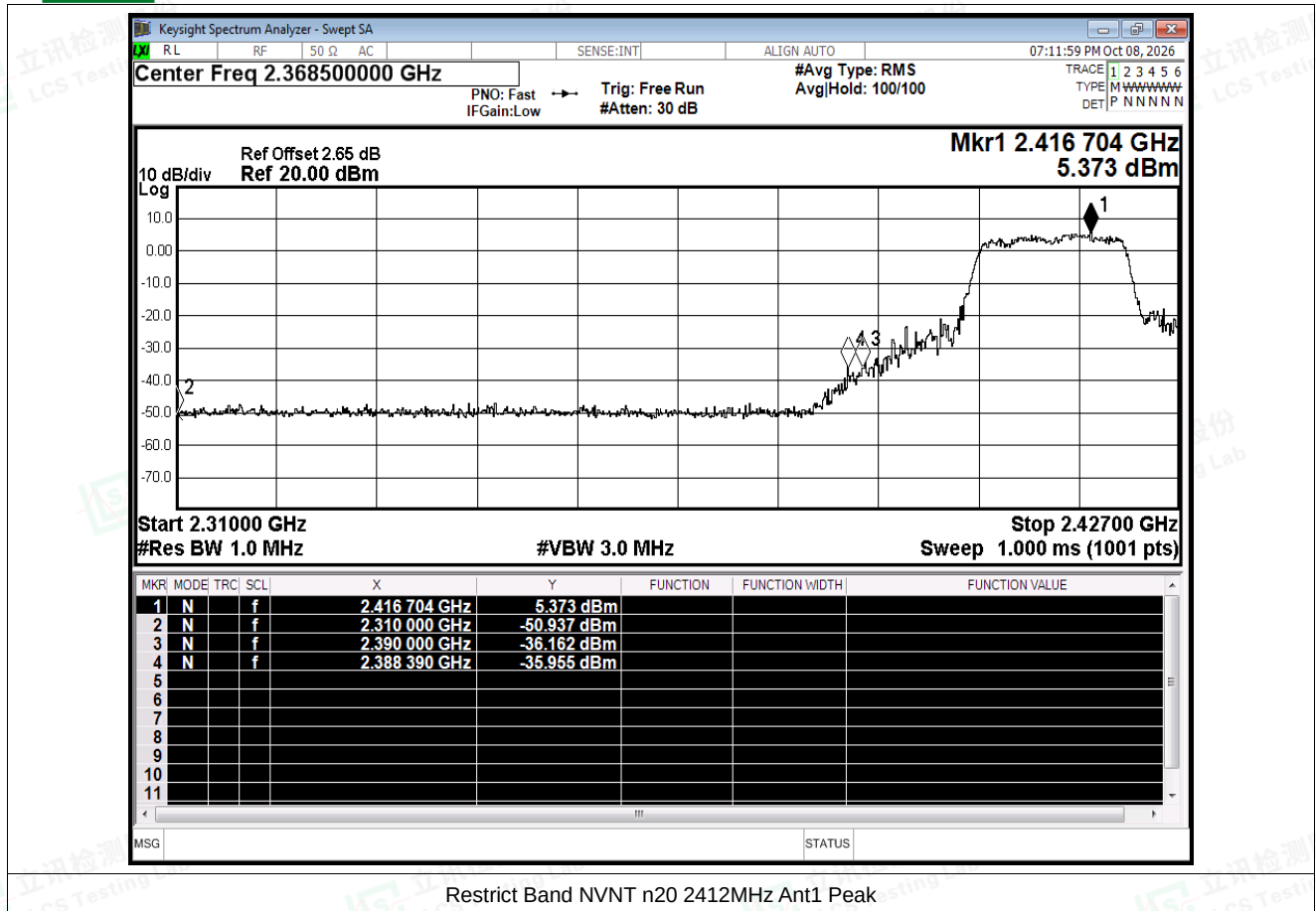
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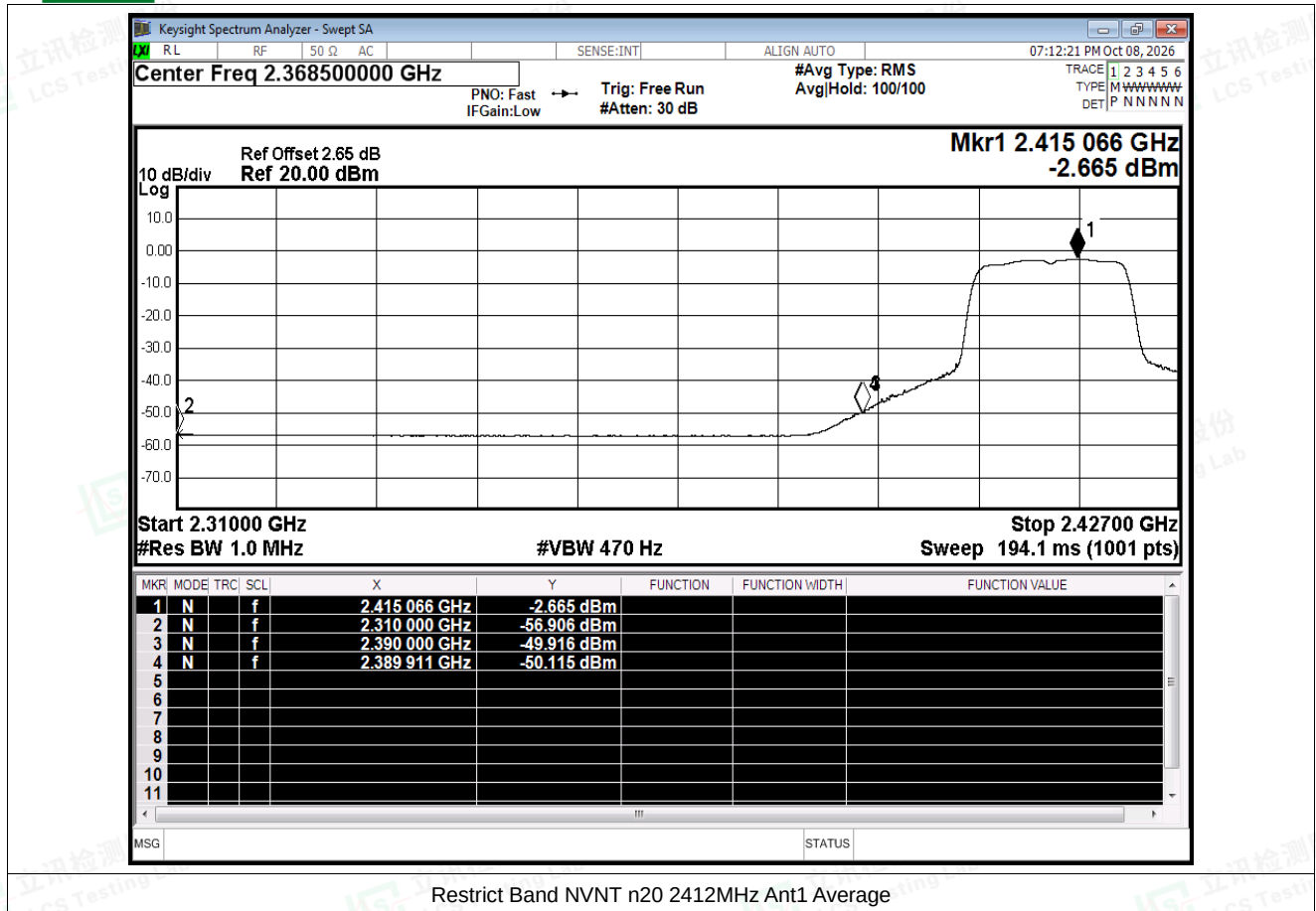
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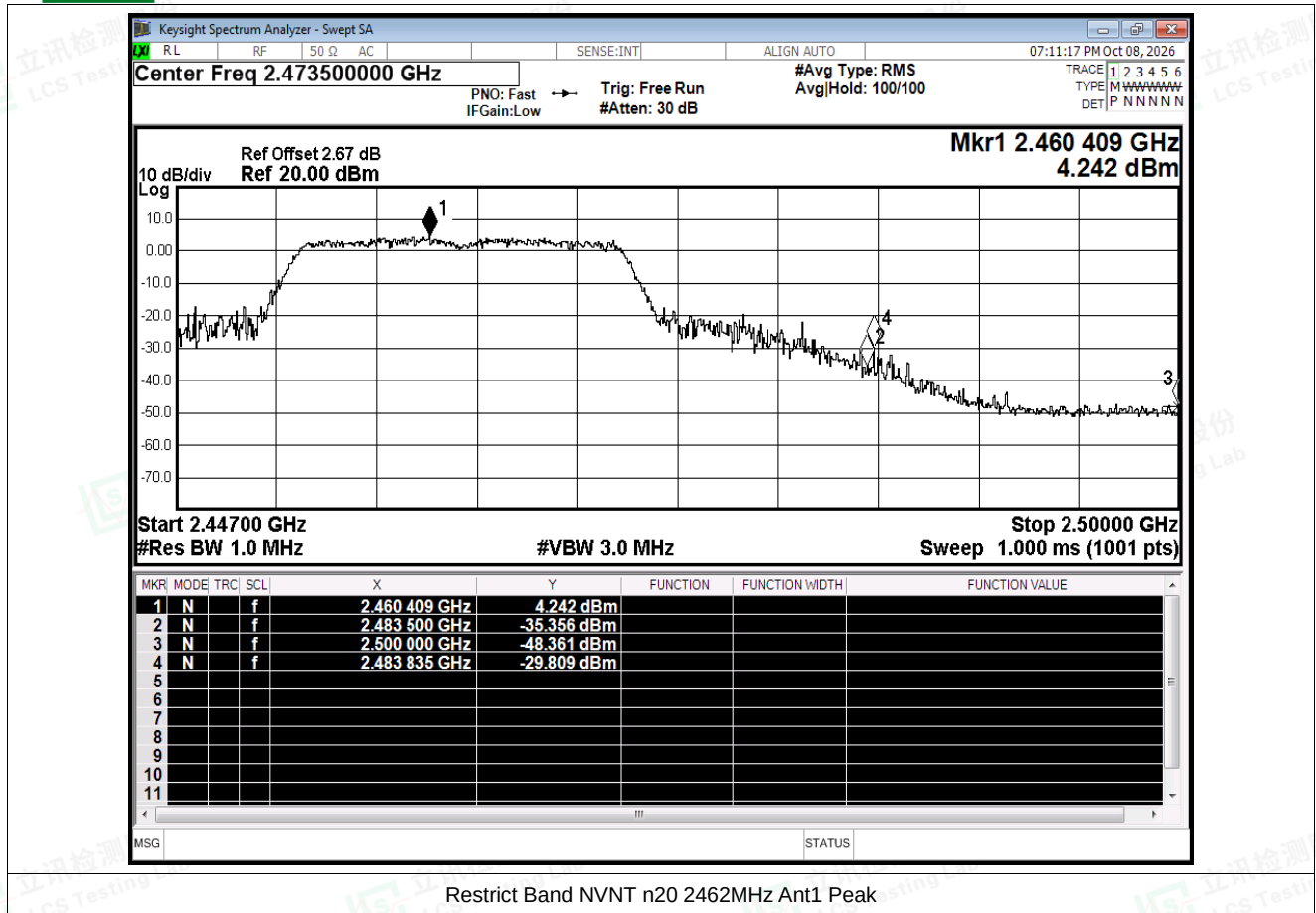
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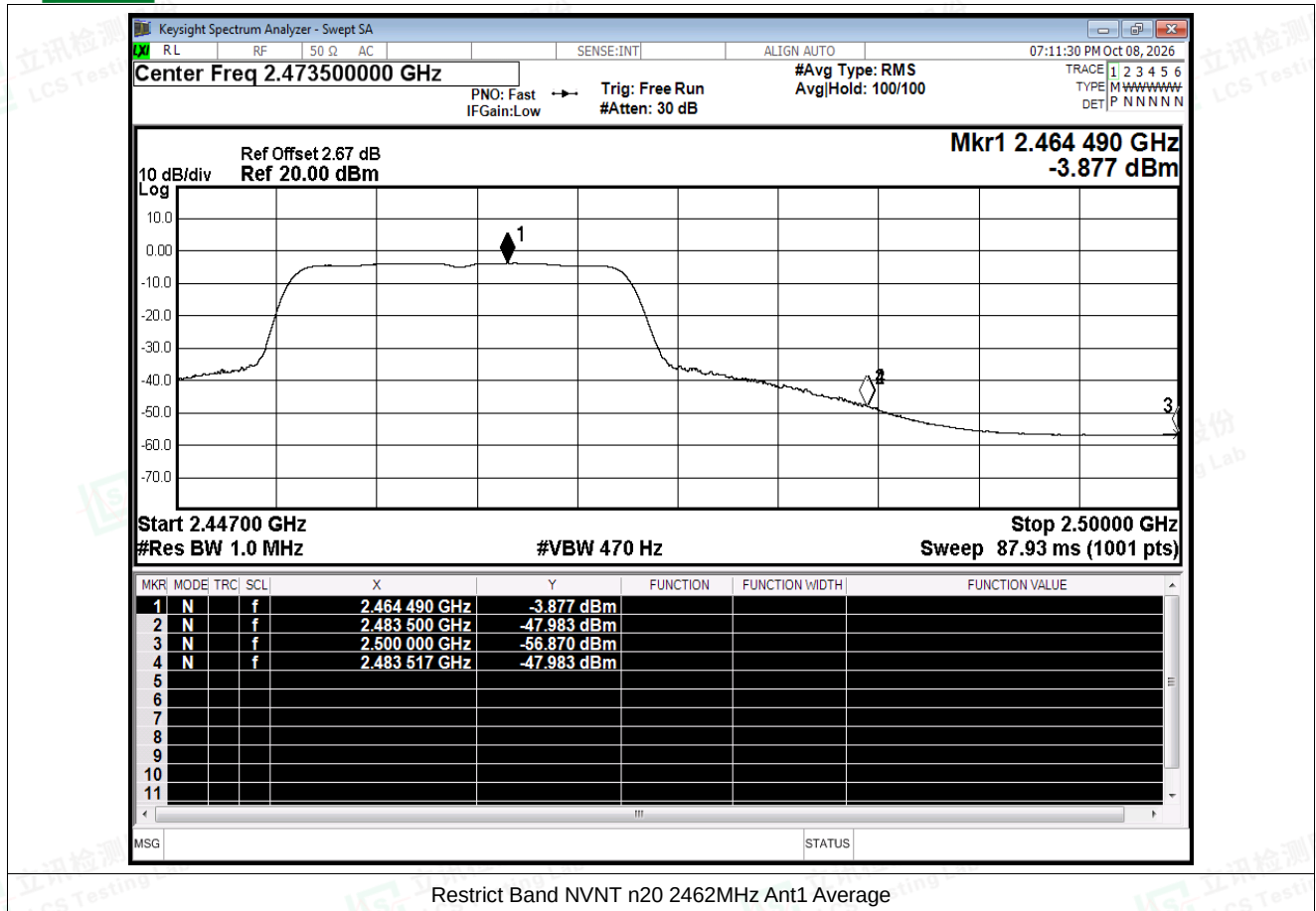
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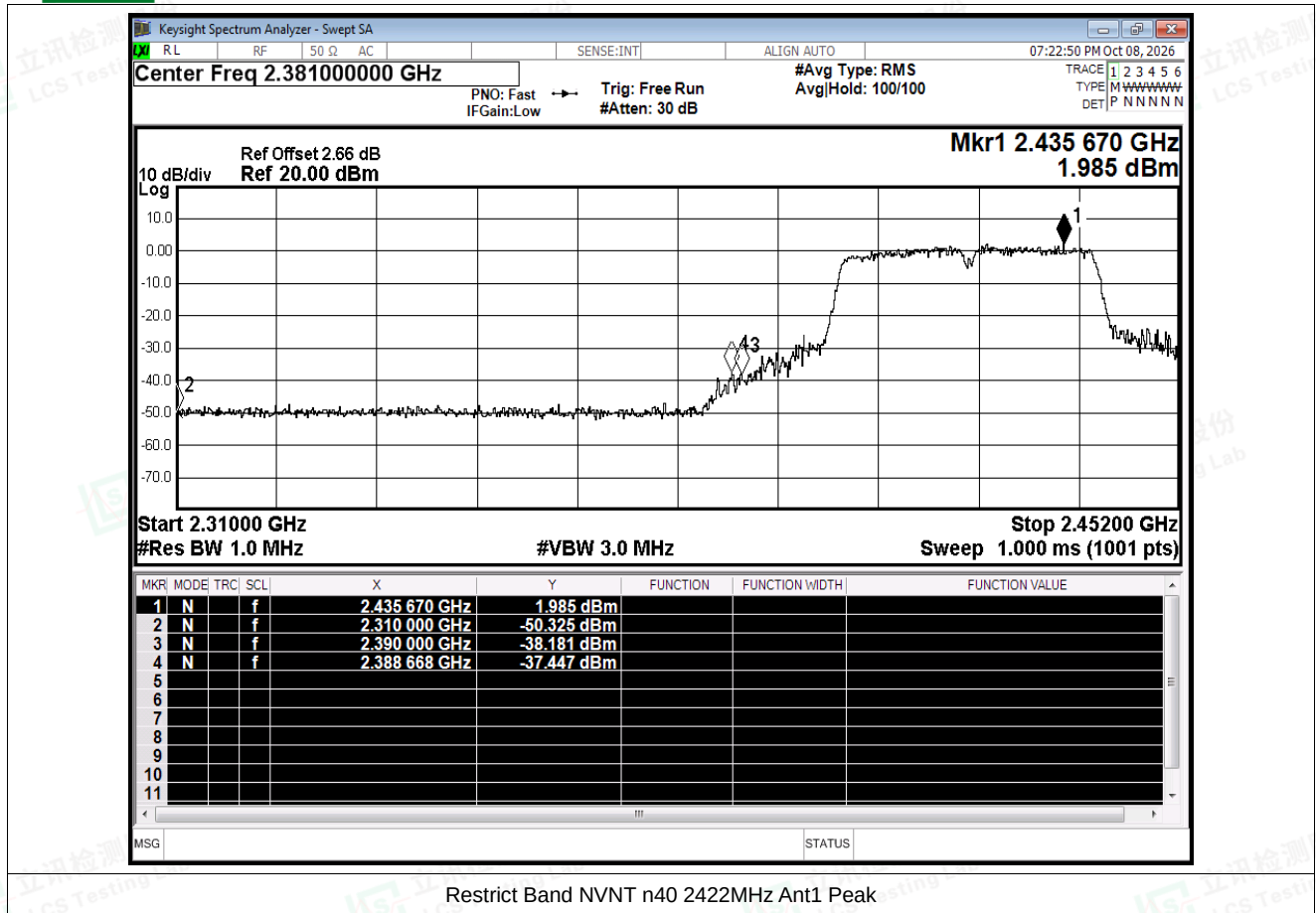
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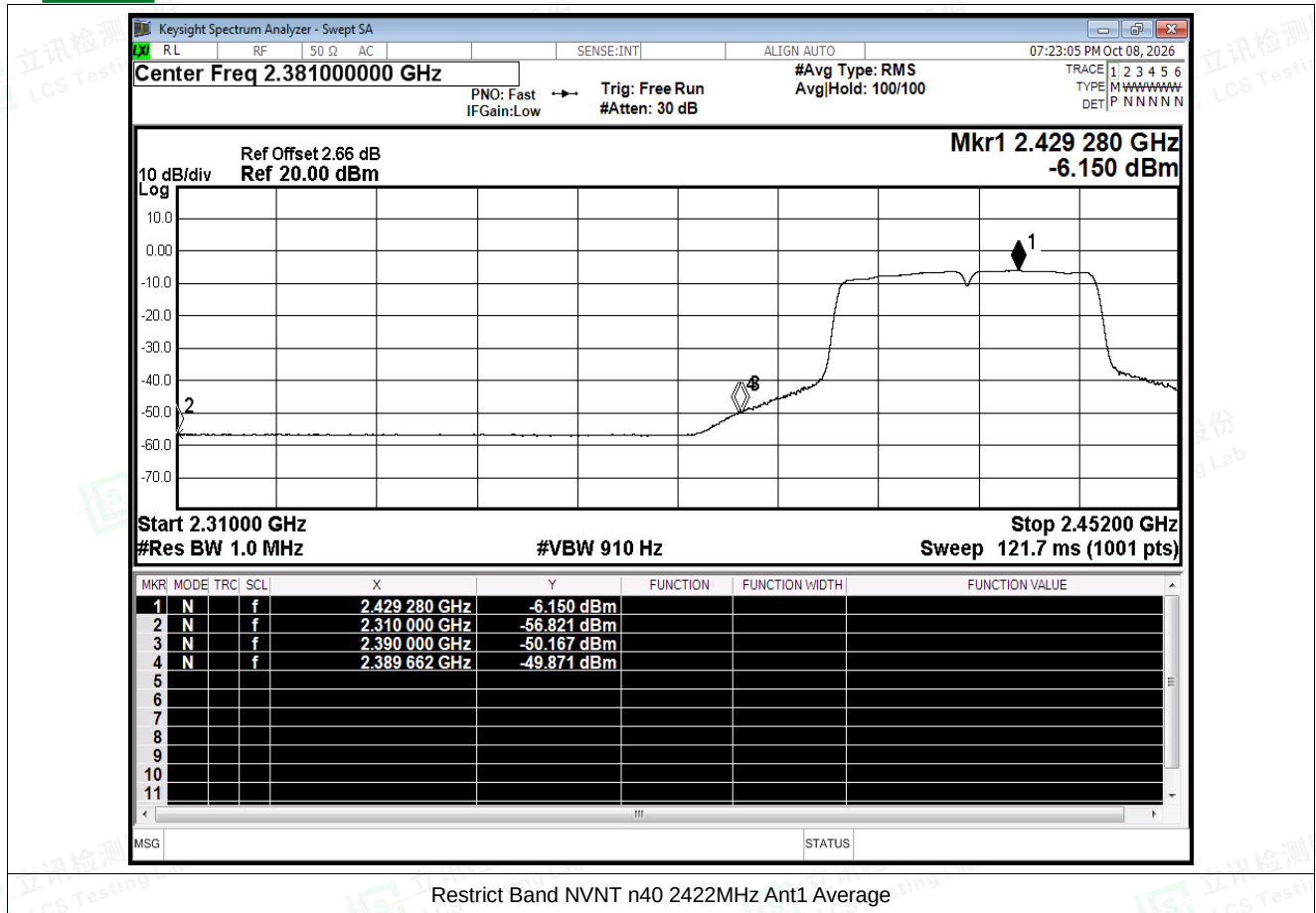
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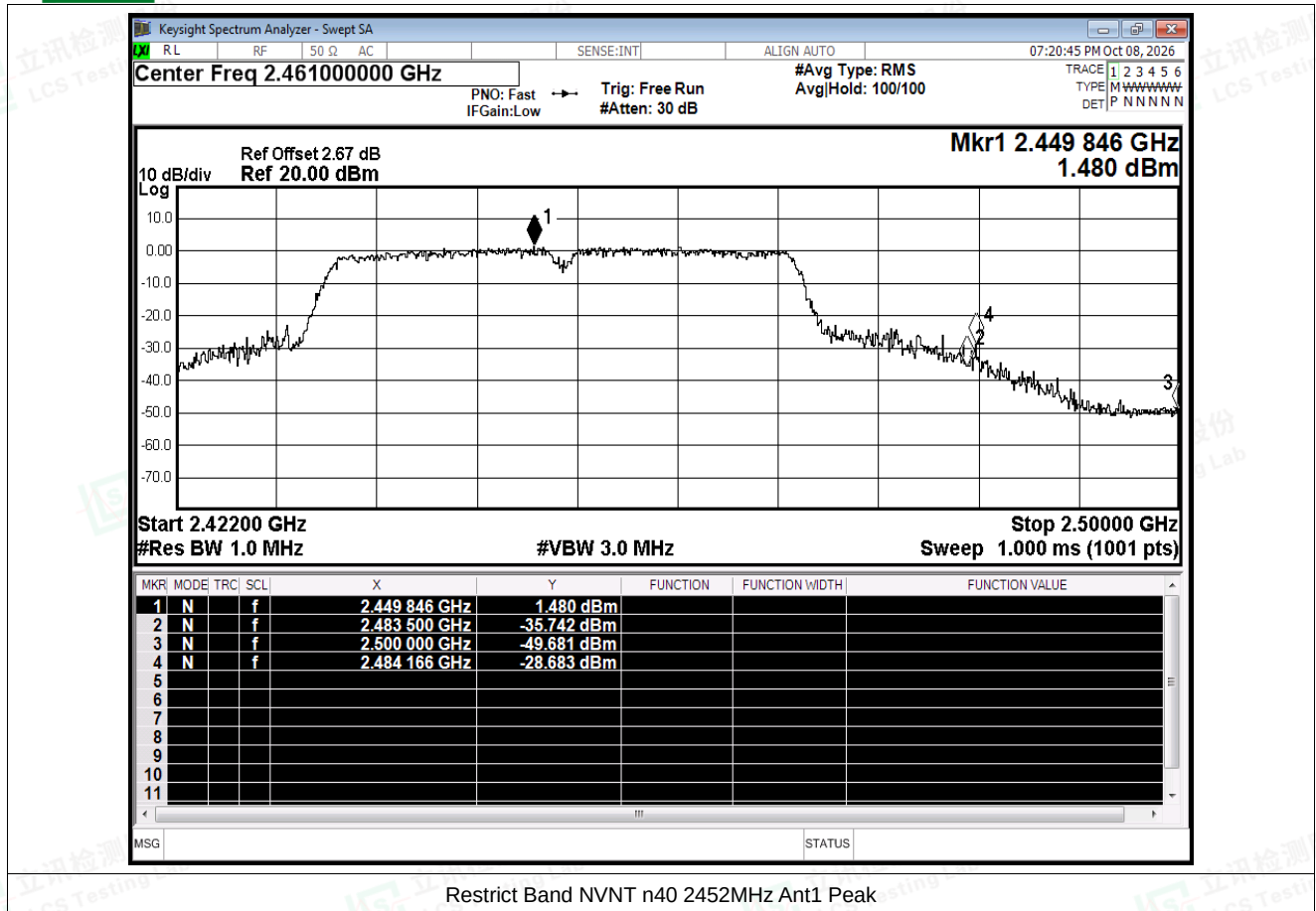
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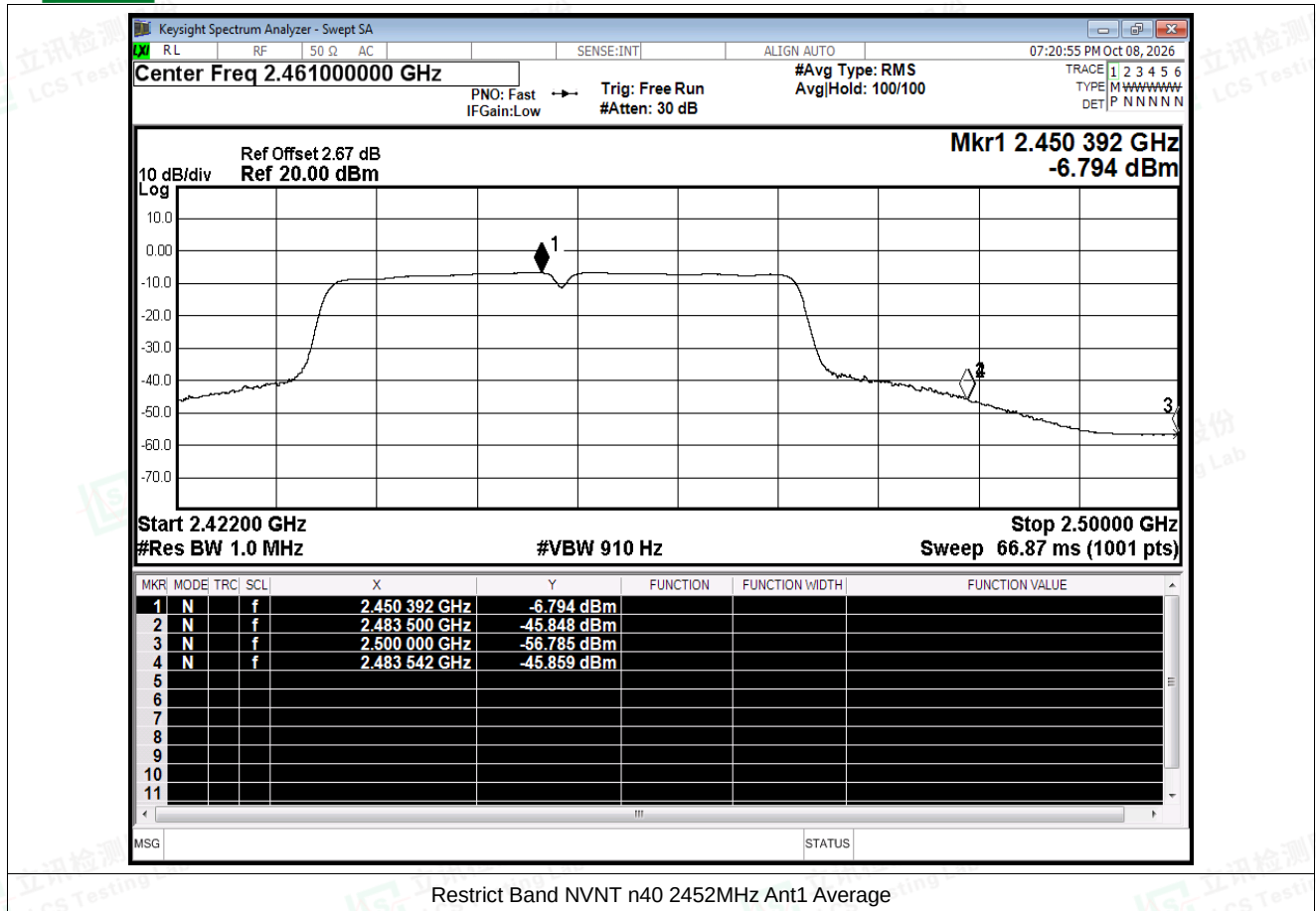
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