



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: SEI900DEV

Test Model: IPA3352HDW

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.013	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.019	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.063	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.354	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.03	≥ 0.5	Pass
NVNT	g	2462	Ant1	15.098	≥ 0.5	Pass
NVNT	n20	2412	Ant1	14.692	≥ 0.5	Pass
NVNT	n20	2437	Ant1	15.082	≥ 0.5	Pass
NVNT	n20	2462	Ant1	13.736	≥ 0.5	Pass
NVNT	n40	2422	Ant1	33.77	≥ 0.5	Pass
NVNT	n40	2437	Ant1	33.827	≥ 0.5	Pass
NVNT	n40	2452	Ant1	33.885	≥ 0.5	Pass



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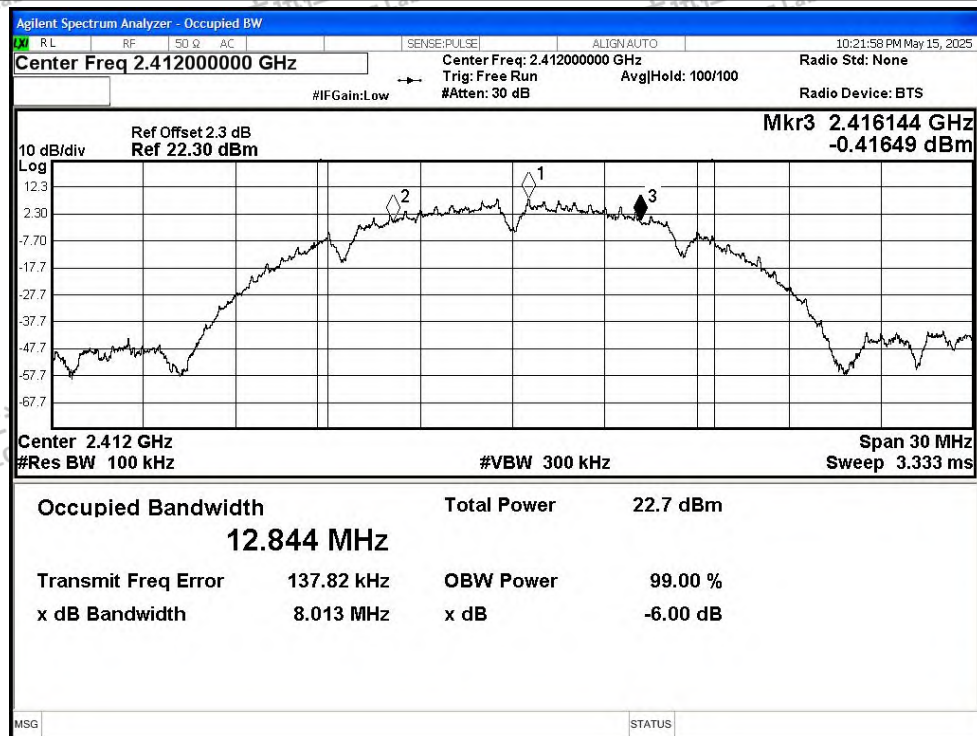
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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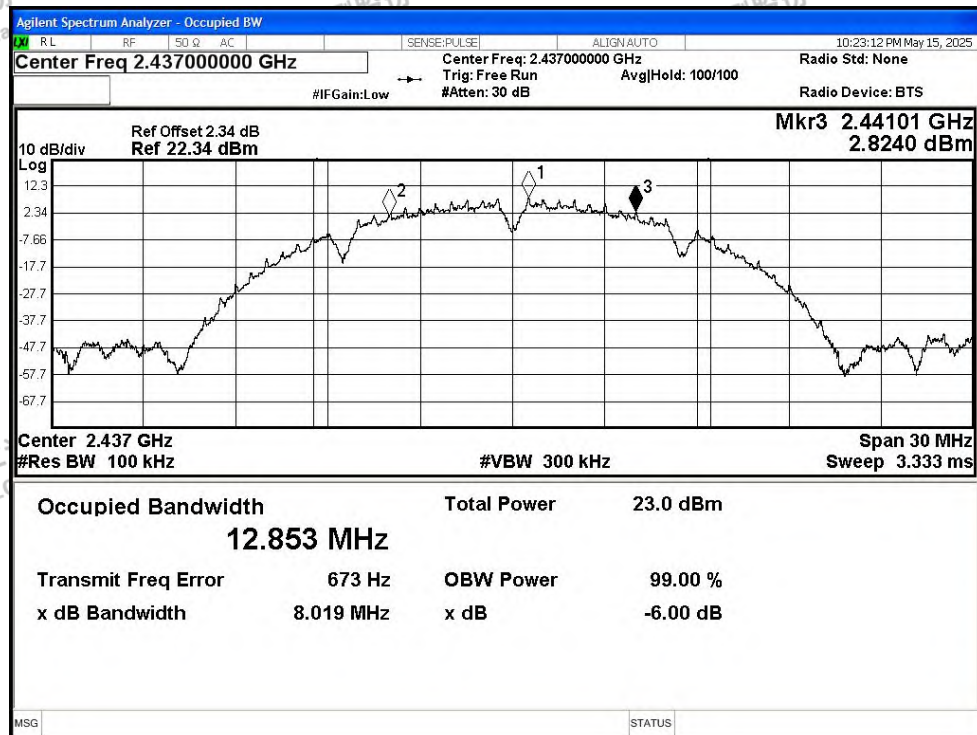


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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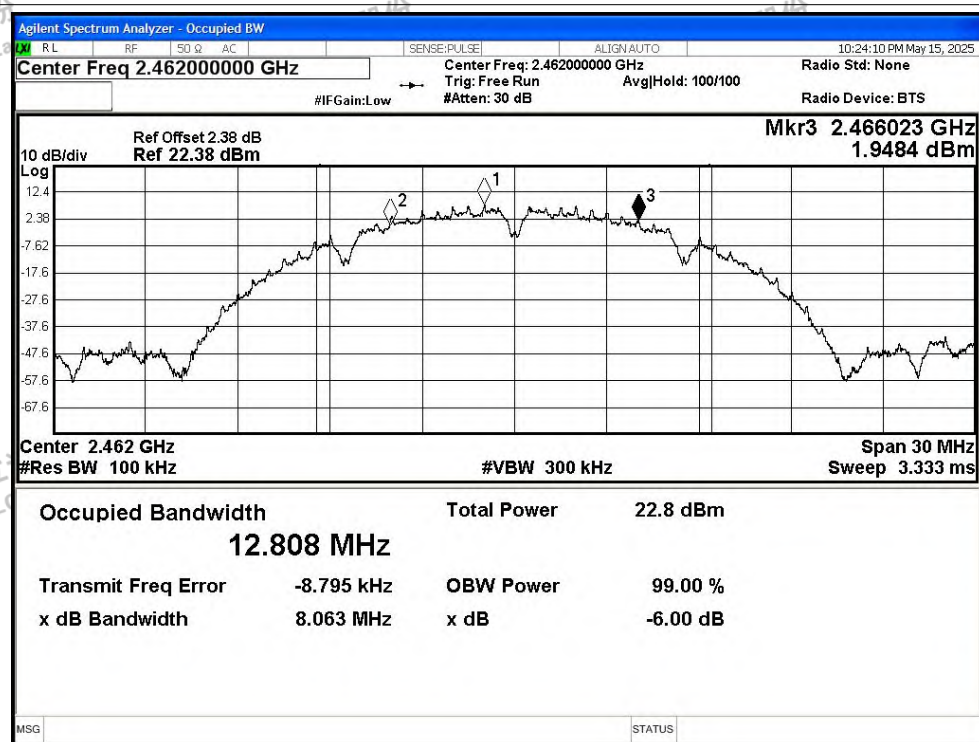
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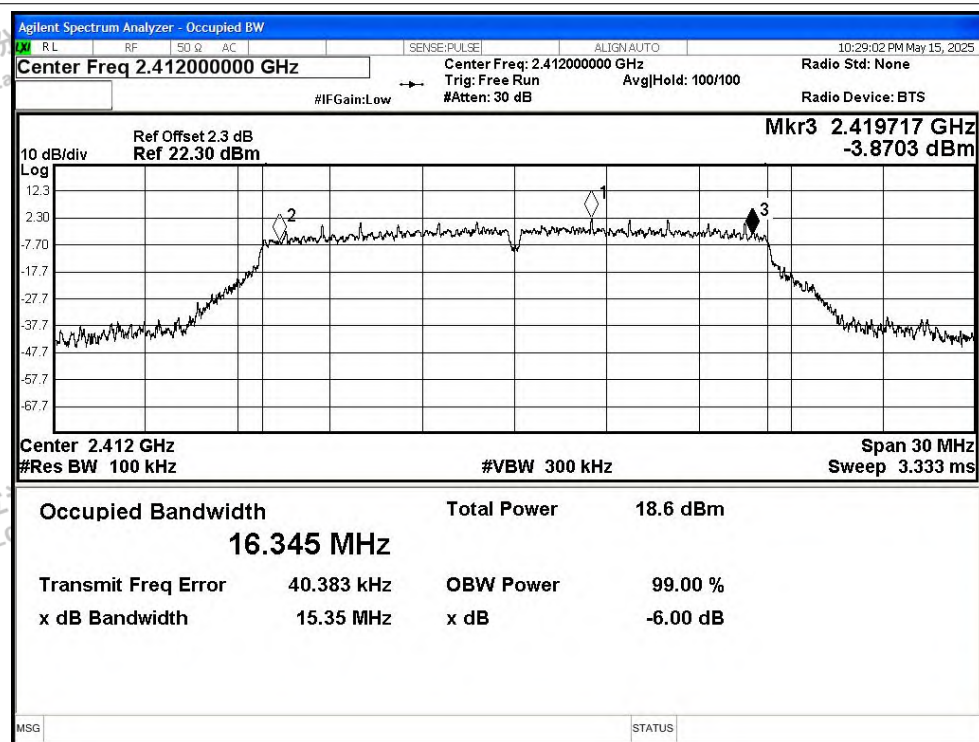
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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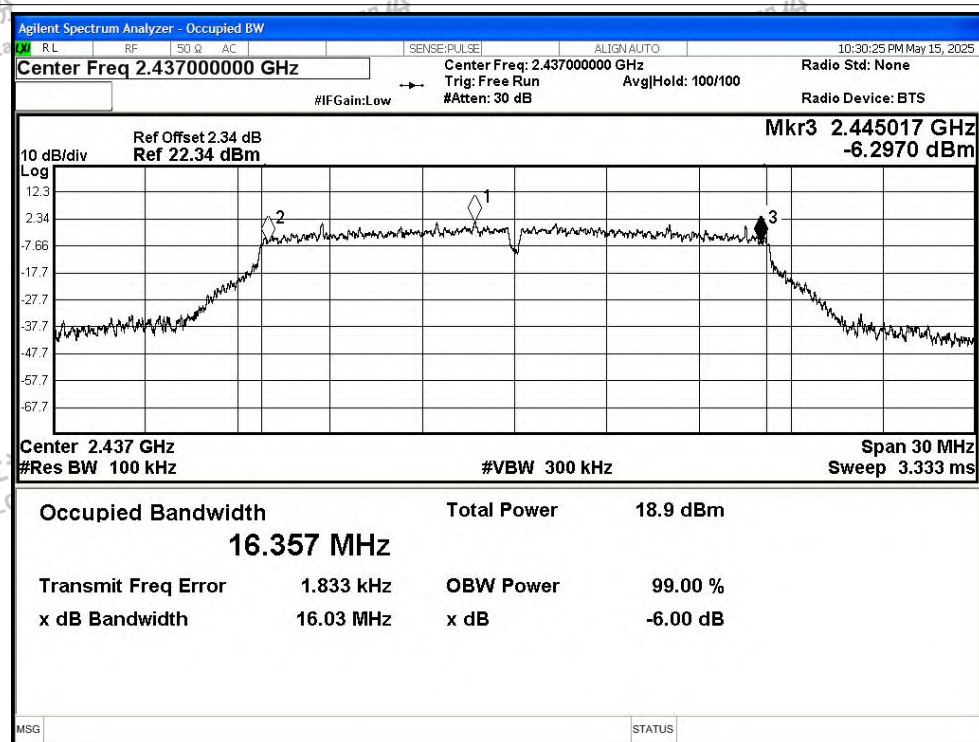
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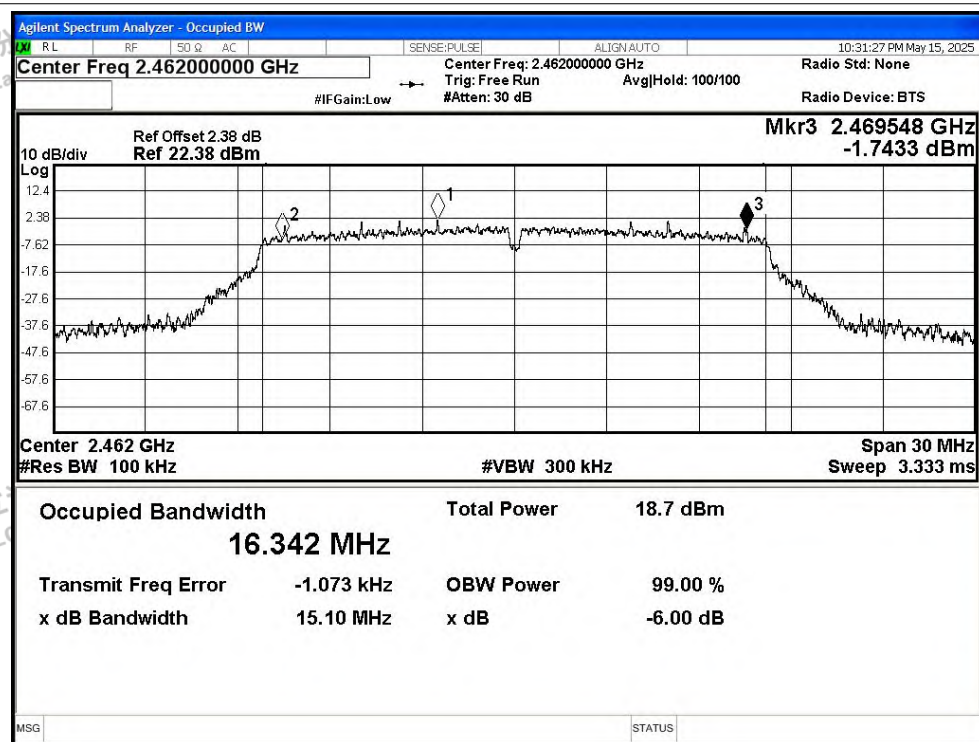
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-6dB Bandwidth NVNT g 2437MHz Ant1



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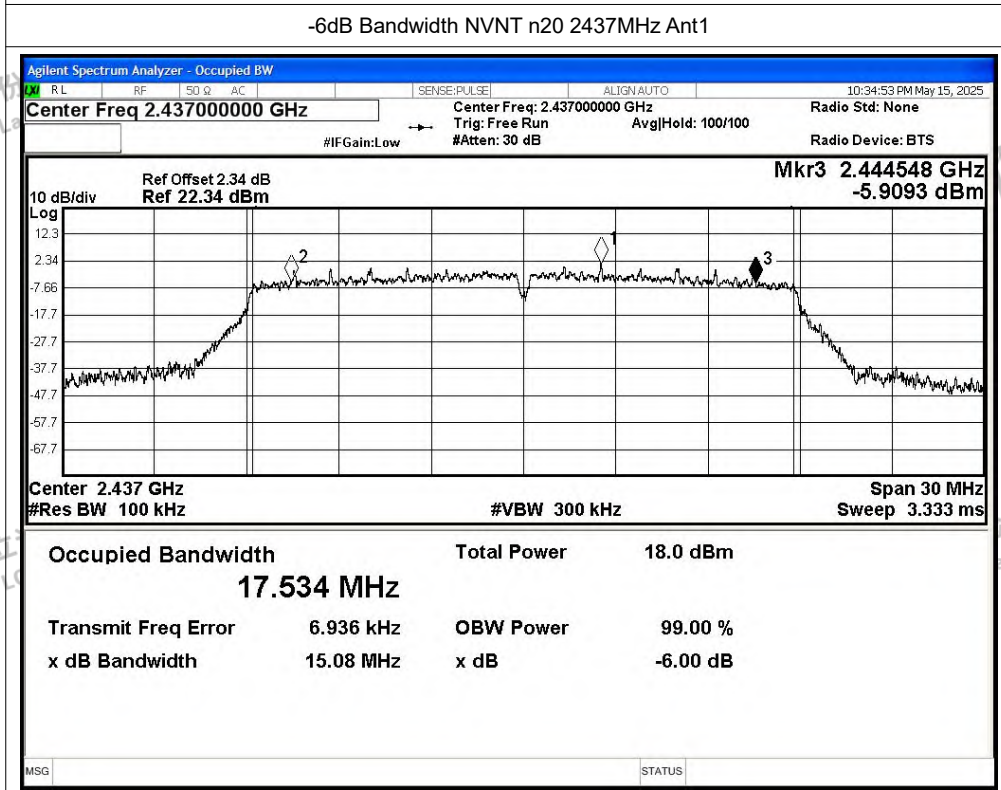
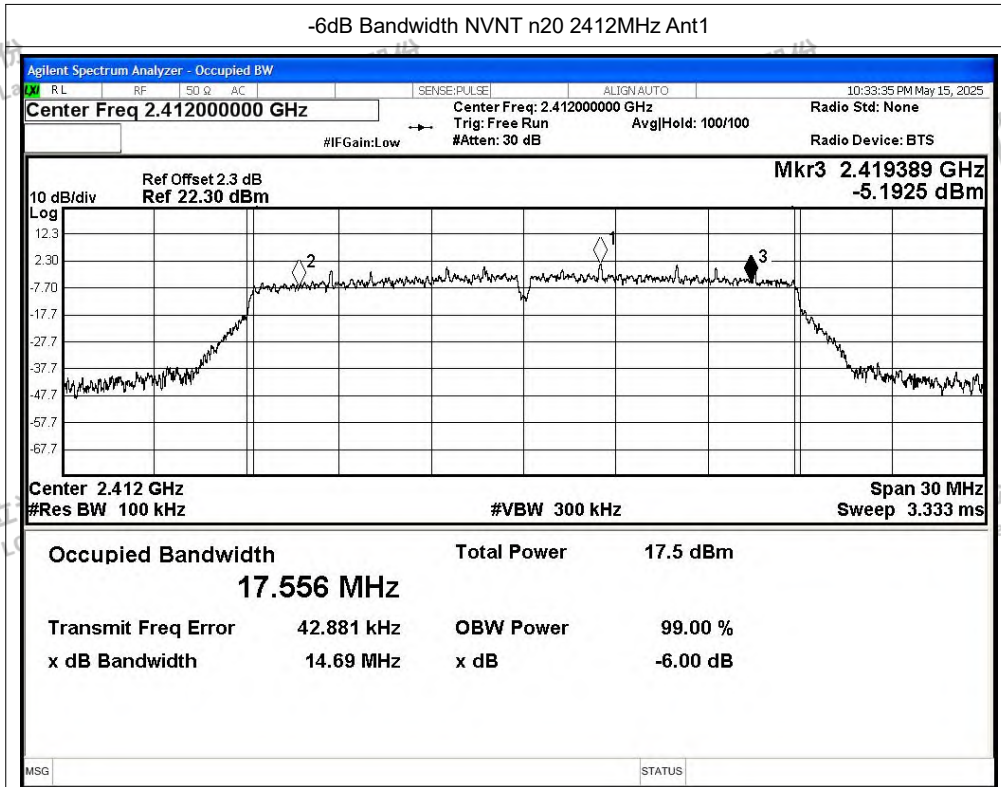


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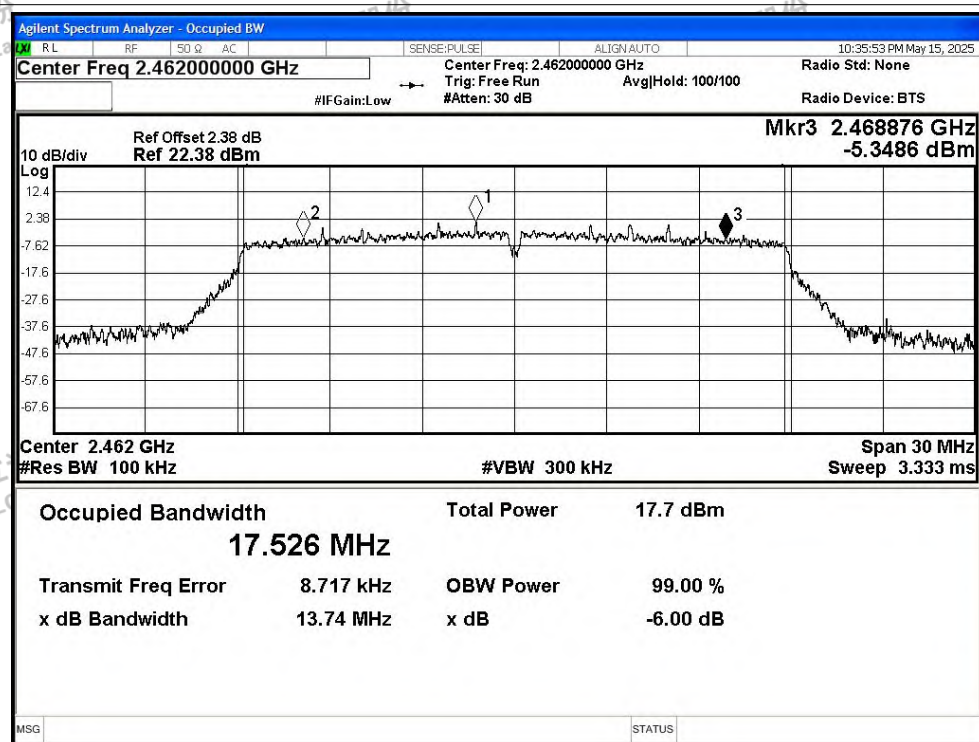
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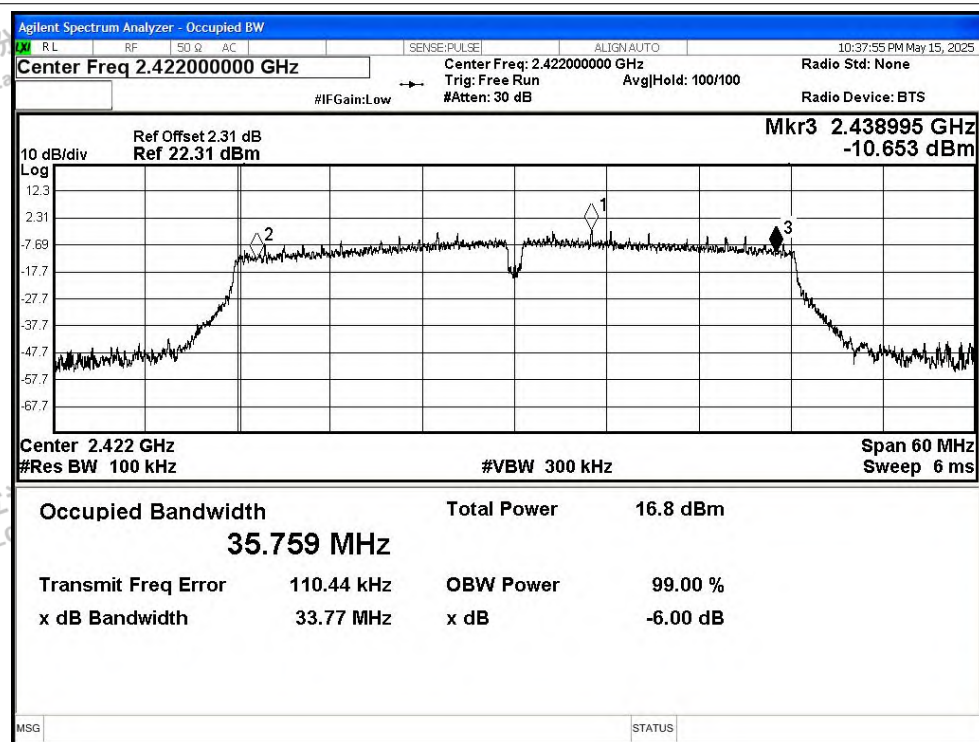




-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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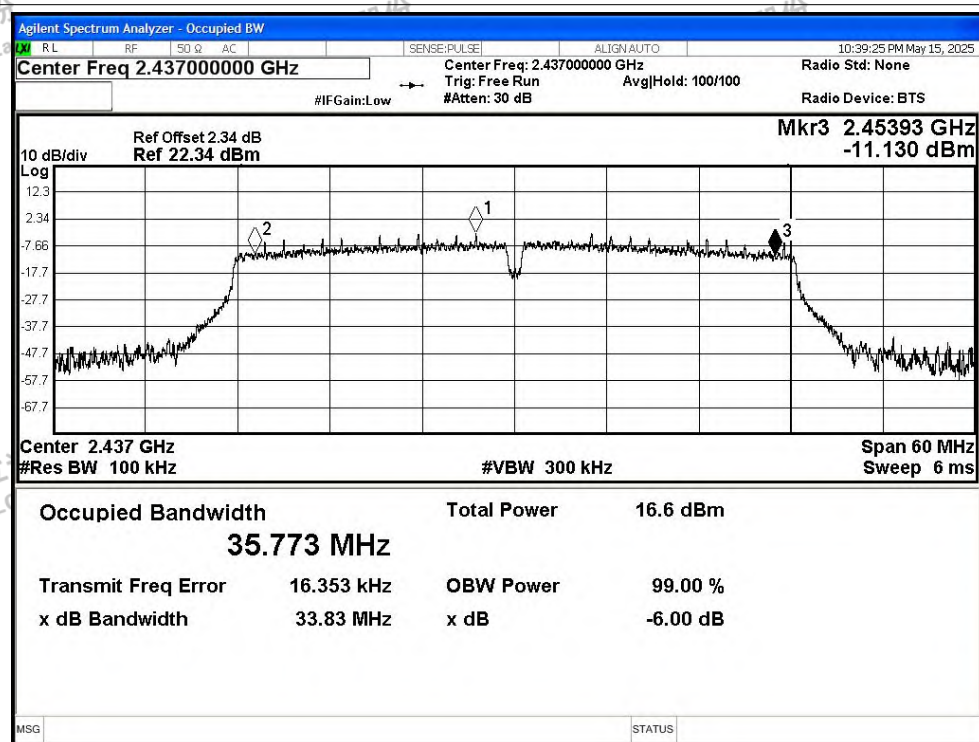
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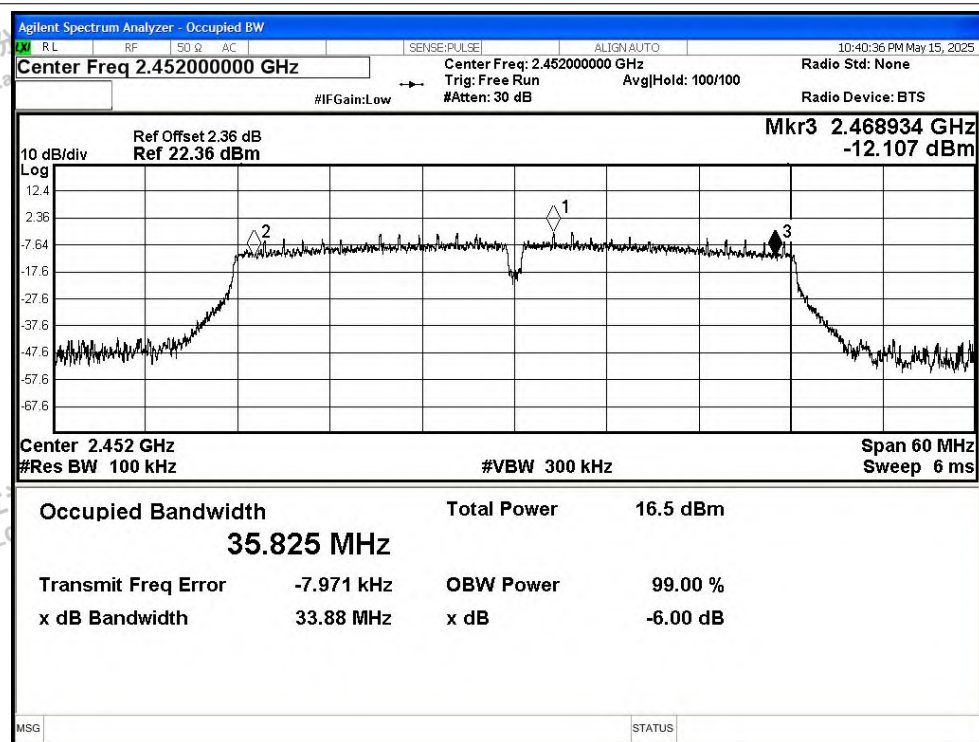
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	8.112	≥ 0.5	Pass
NVNT	b	2437	Ant2	8.08	≥ 0.5	Pass
NVNT	b	2462	Ant2	8.094	≥ 0.5	Pass
NVNT	g	2412	Ant2	15.687	≥ 0.5	Pass
NVNT	g	2437	Ant2	15.848	≥ 0.5	Pass
NVNT	g	2462	Ant2	16.134	≥ 0.5	Pass
NVNT	n20	2412	Ant2	16.784	≥ 0.5	Pass
NVNT	n20	2437	Ant2	17.248	≥ 0.5	Pass
NVNT	n20	2462	Ant2	16.849	≥ 0.5	Pass
NVNT	n40	2422	Ant2	35.733	≥ 0.5	Pass
NVNT	n40	2437	Ant2	35.267	≥ 0.5	Pass
NVNT	n40	2452	Ant2	35.466	≥ 0.5	Pass



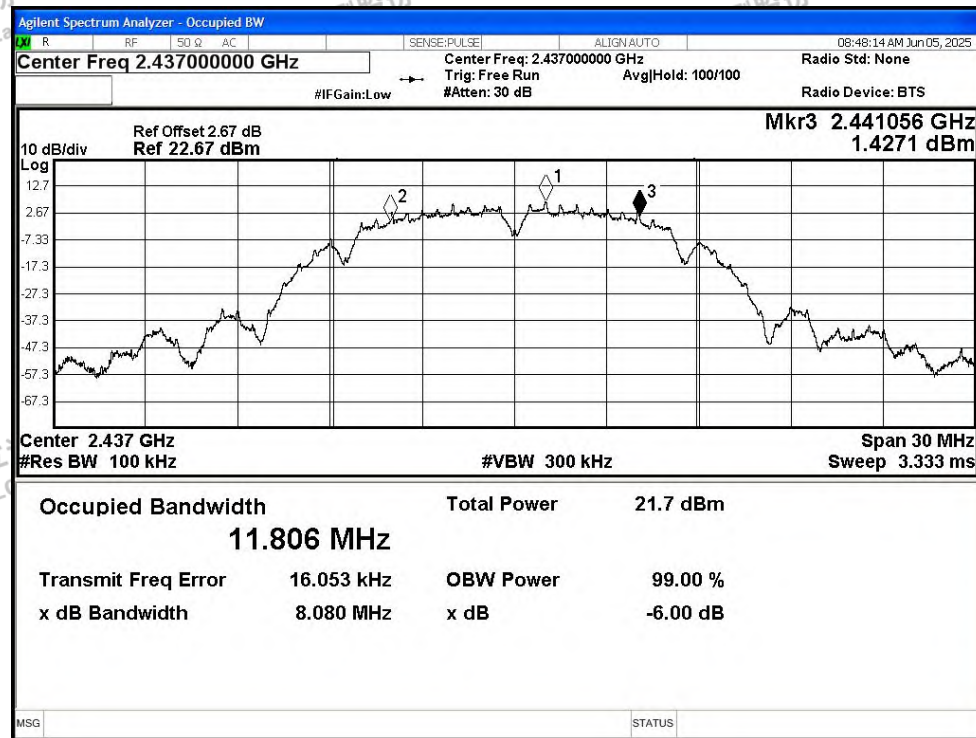


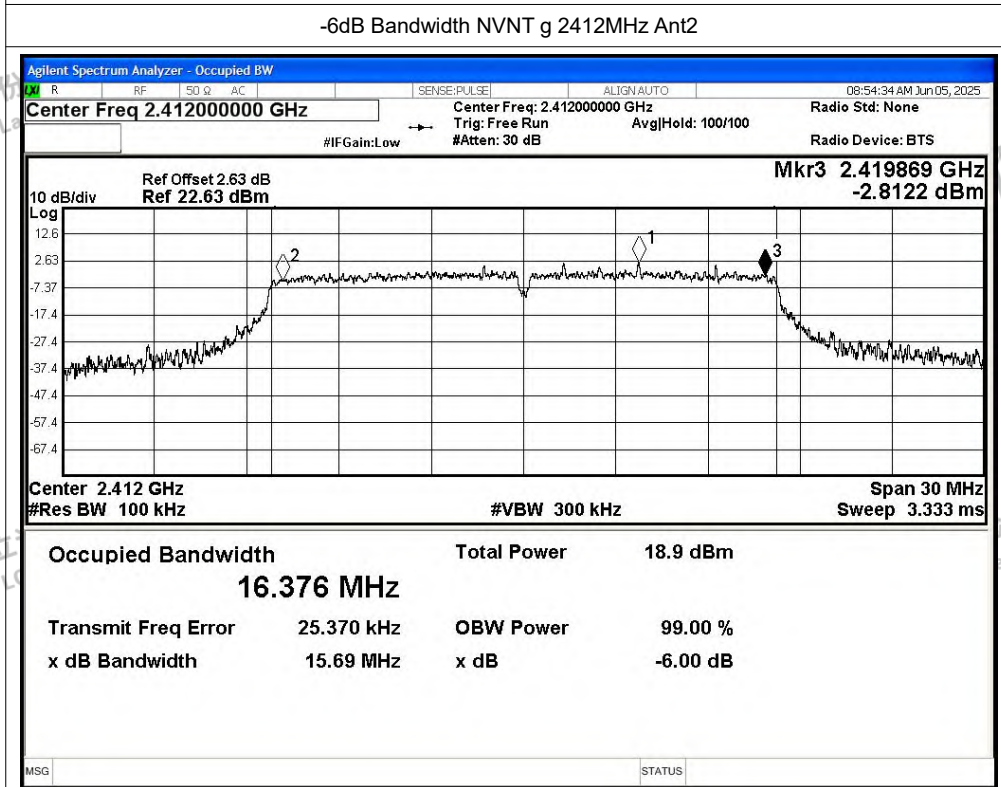
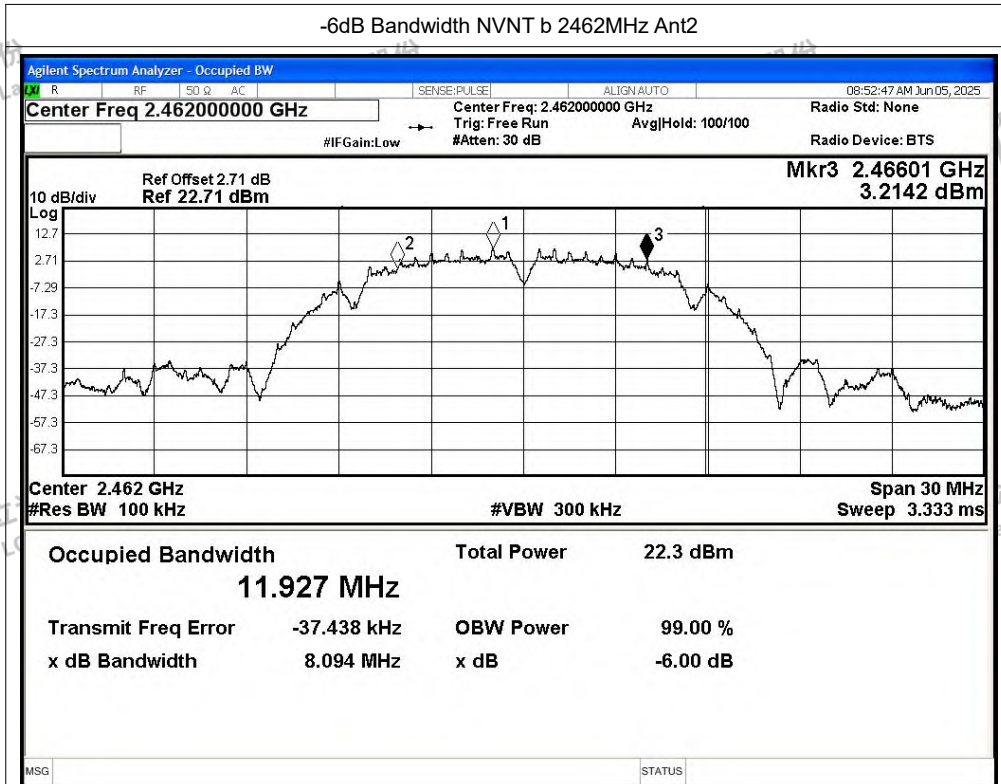
Test Graphs

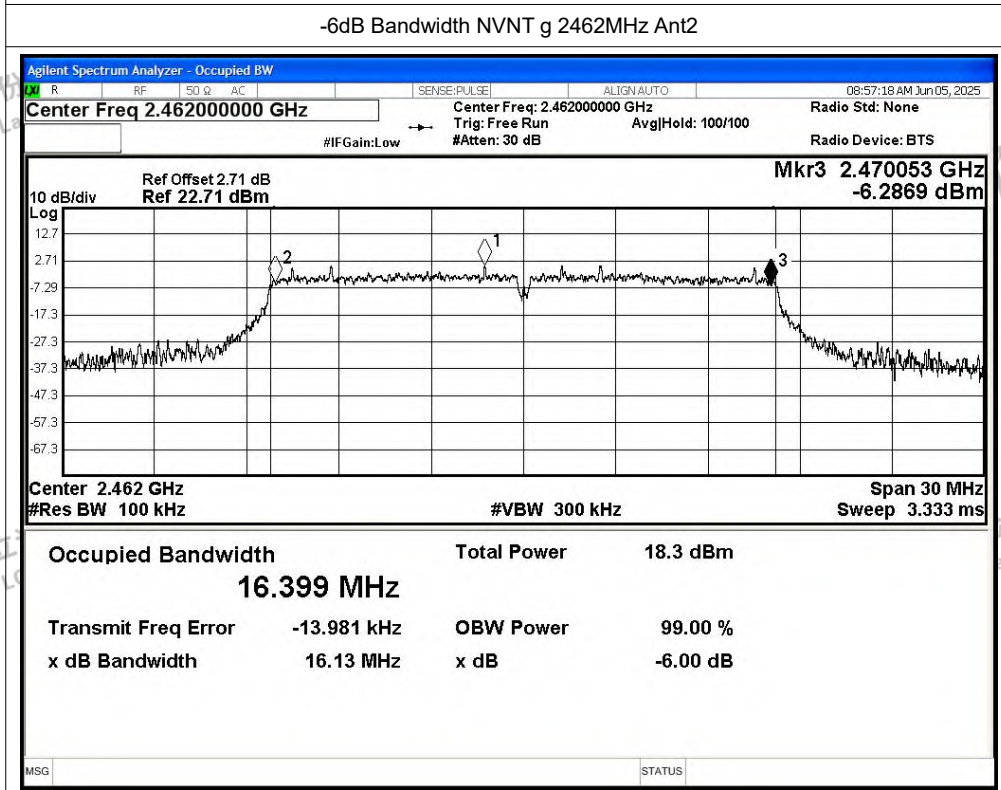
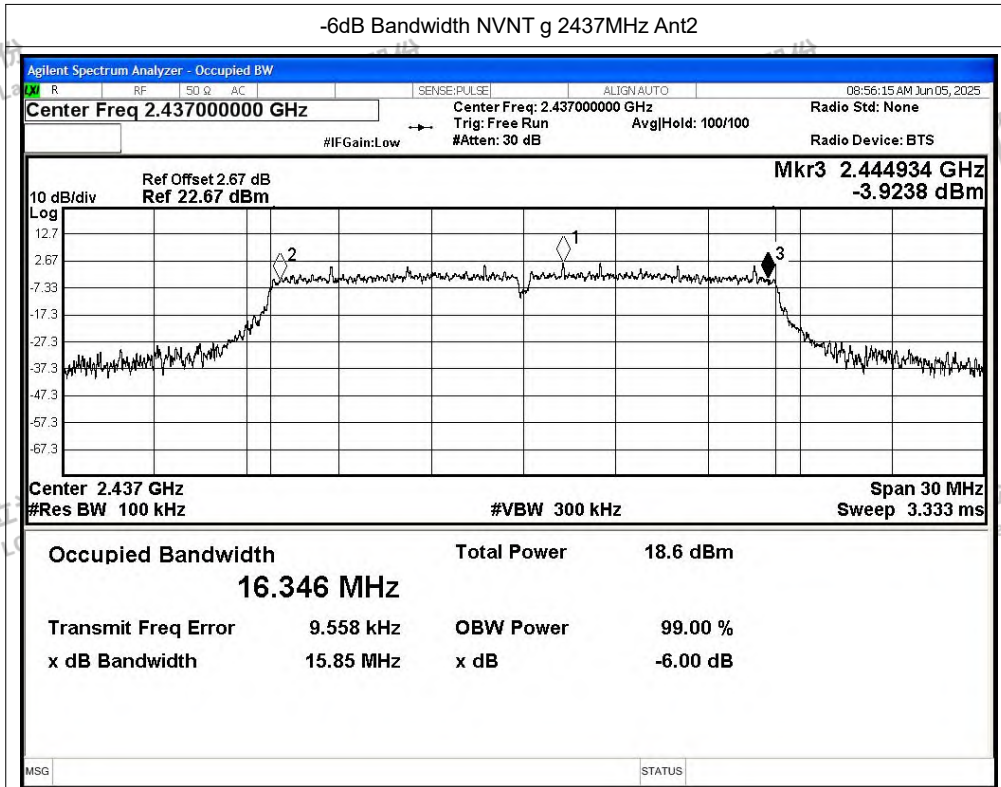
-6dB Bandwidth NVNT b 2412MHz Ant2

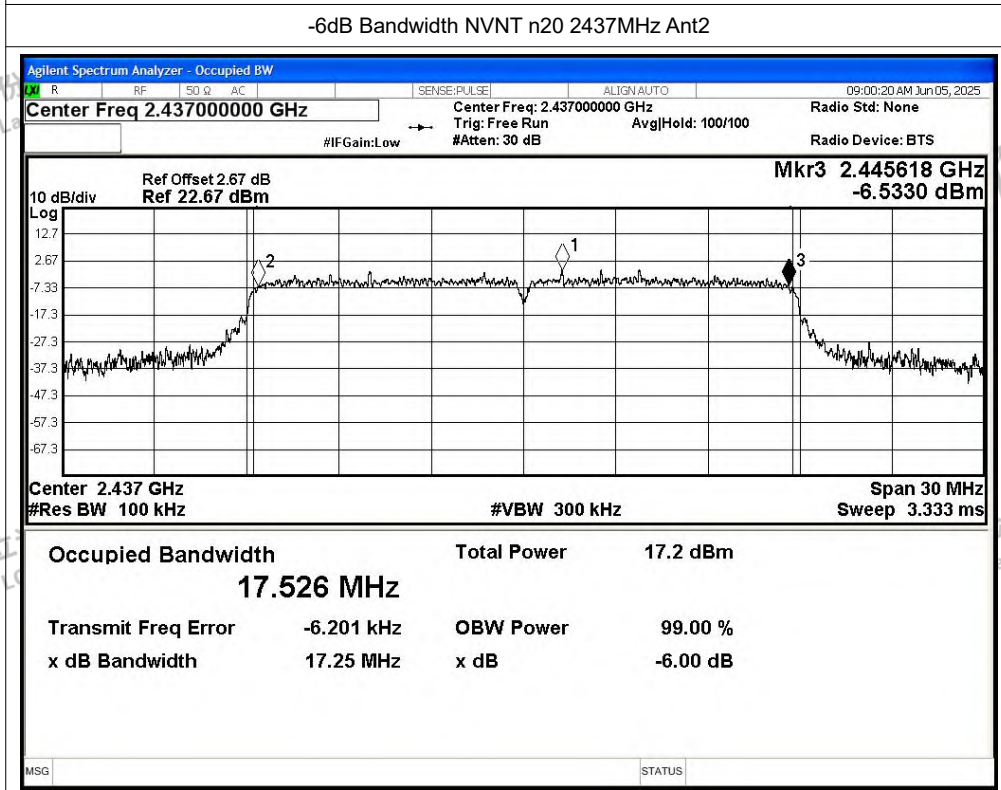
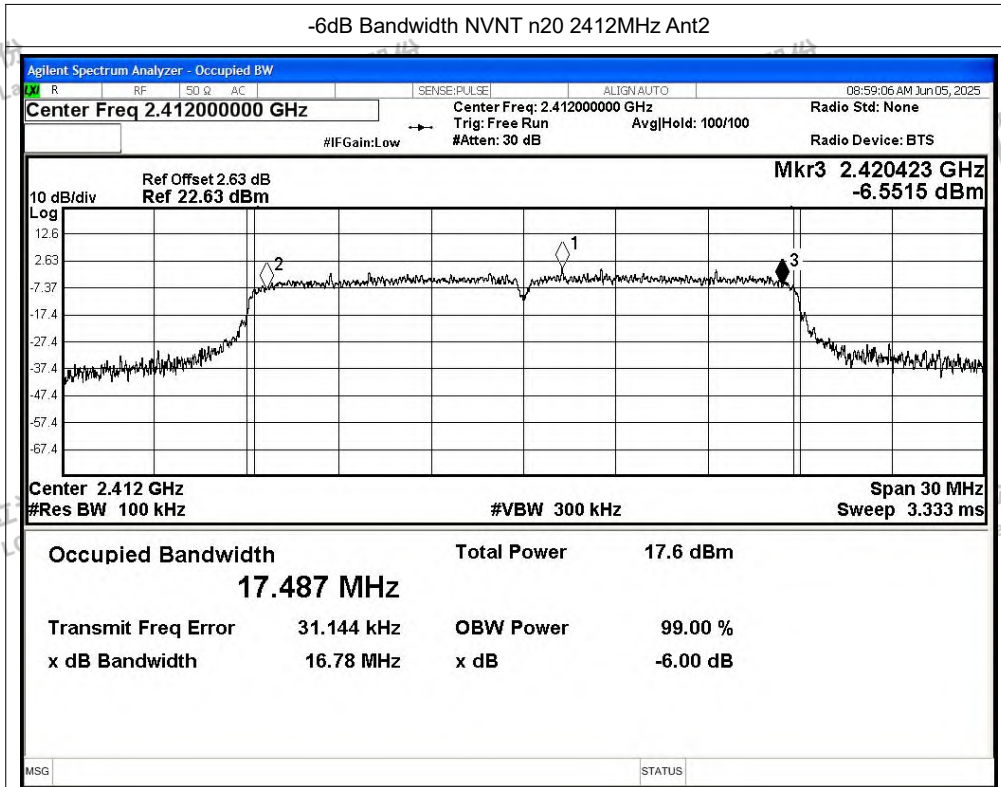


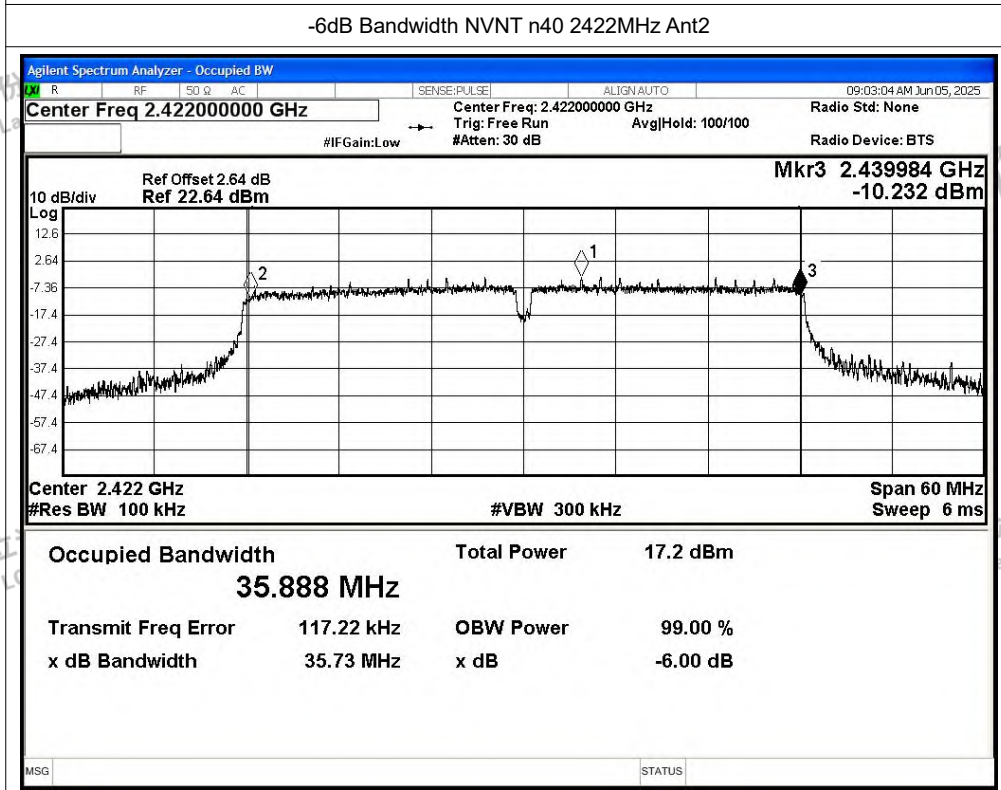
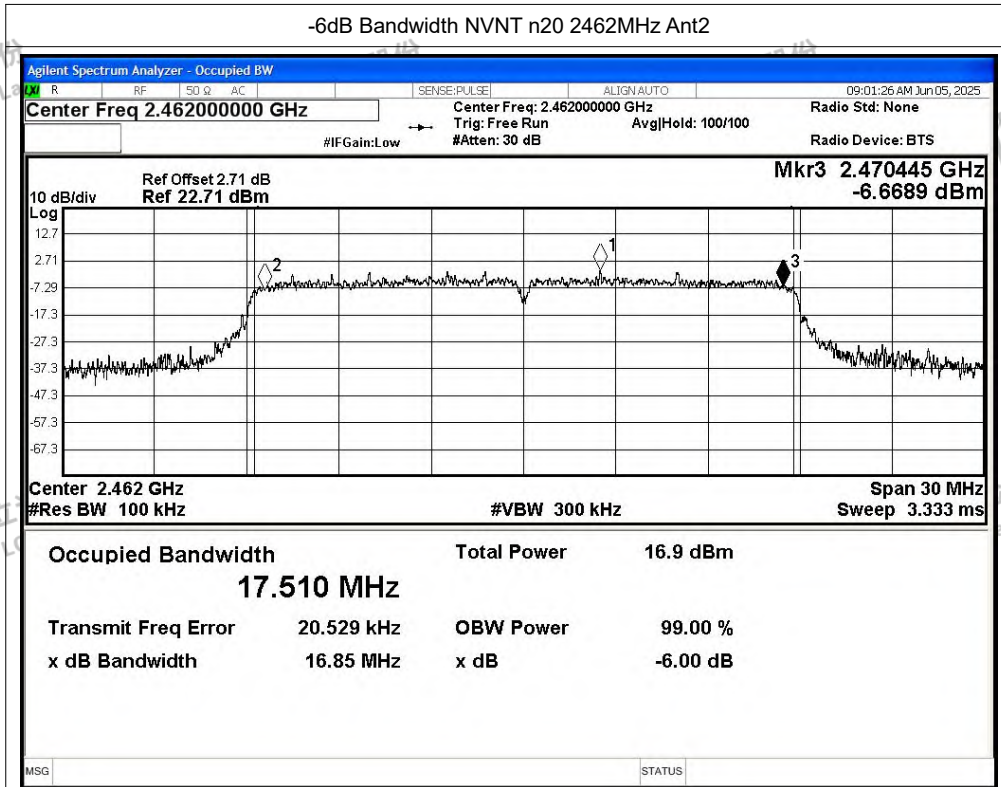
-6dB Bandwidth NVNT b 2437MHz Ant2

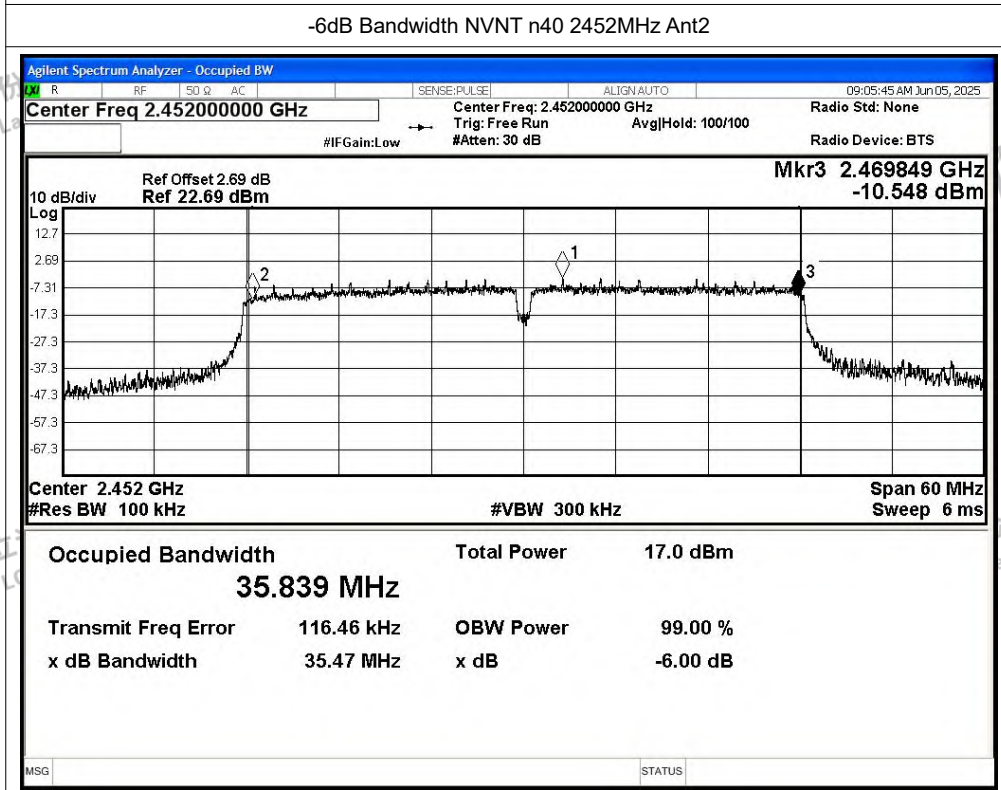
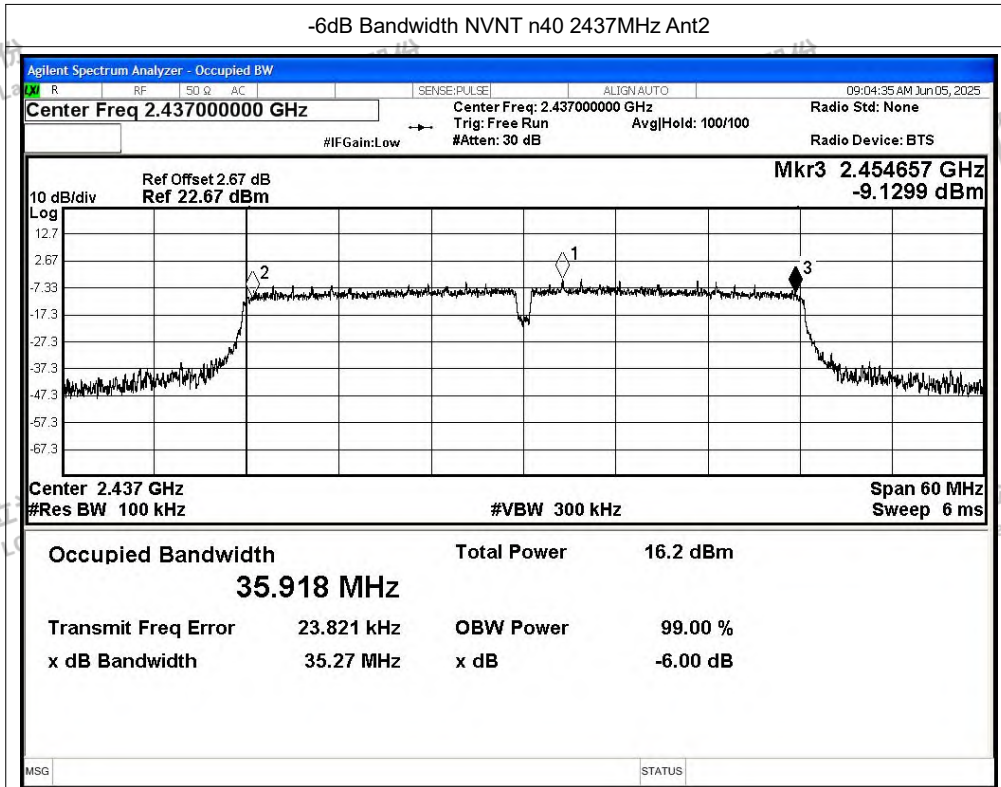














C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.72	30	Pass
NVNT	b	2437	Ant1	18.01	30	Pass
NVNT	b	2462	Ant1	17.8	30	Pass
NVNT	g	2412	Ant1	17.29	30	Pass
NVNT	g	2437	Ant1	17.59	30	Pass
NVNT	g	2462	Ant1	17.39	30	Pass
NVNT	n20	2412	Ant1	16.22	30	Pass
NVNT	n20	2437	Ant1	16.63	30	Pass
NVNT	n20	2462	Ant1	16.36	30	Pass
NVNT	n40	2422	Ant1	15.34	30	Pass
NVNT	n40	2437	Ant1	15	30	Pass
NVNT	n40	2452	Ant1	14.89	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	17.23	30	Pass
NVNT	b	2437	Ant2	17.69	30	Pass
NVNT	b	2462	Ant2	17.21	30	Pass
NVNT	g	2412	Ant2	17.74	30	Pass
NVNT	g	2437	Ant2	17.26	30	Pass
NVNT	g	2462	Ant2	17.02	30	Pass
NVNT	n20	2412	Ant2	16.17	30	Pass
NVNT	n20	2437	Ant2	15.7	30	Pass
NVNT	n20	2462	Ant2	15.49	30	Pass
NVNT	n40	2422	Ant2	15.65	30	Pass
NVNT	n40	2437	Ant2	14.62	30	Pass
NVNT	n40	2452	Ant2	15.37	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	16.22	16.17	19.21	30	Pass
NVNT	n20	2437	16.63	15.7	19.20	30	Pass
NVNT	n20	2462	16.36	15.49	18.96	30	Pass
NVNT	n40	2422	15.34	15.65	18.51	30	Pass
NVNT	n40	2437	15	14.62	17.82	30	Pass
NVNT	n40	2452	14.89	15.37	18.15	30	Pass





C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-5.19	8	Pass
NVNT	b	2437	Ant1	-5.43	8	Pass
NVNT	b	2462	Ant1	-5.85	8	Pass
NVNT	g	2412	Ant1	-12.47	8	Pass
NVNT	g	2437	Ant1	-11.91	8	Pass
NVNT	g	2462	Ant1	-11.29	8	Pass
NVNT	n20	2412	Ant1	-13.15	8	Pass
NVNT	n20	2437	Ant1	-13.04	8	Pass
NVNT	n20	2462	Ant1	-13.31	8	Pass
NVNT	n40	2422	Ant1	-15.84	8	Pass
NVNT	n40	2437	Ant1	-17.05	8	Pass
NVNT	n40	2452	Ant1	-17.66	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant2	-6.73	8	Pass
NVNT	b	2437	Ant2	-6.75	8	Pass
NVNT	b	2462	Ant2	-6.43	8	Pass
NVNT	g	2412	Ant2	-12.51	8	Pass
NVNT	g	2437	Ant2	-13.37	8	Pass
NVNT	g	2462	Ant2	-13.42	8	Pass
NVNT	n20	2412	Ant2	-13.45	8	Pass
NVNT	n20	2437	Ant2	-14.88	8	Pass
NVNT	n20	2462	Ant2	-14.77	8	Pass
NVNT	n40	2422	Ant2	-17.55	8	Pass
NVNT	n40	2437	Ant2	-18.75	8	Pass
NVNT	n40	2452	Ant2	-17.5	8	Pass

MIMO

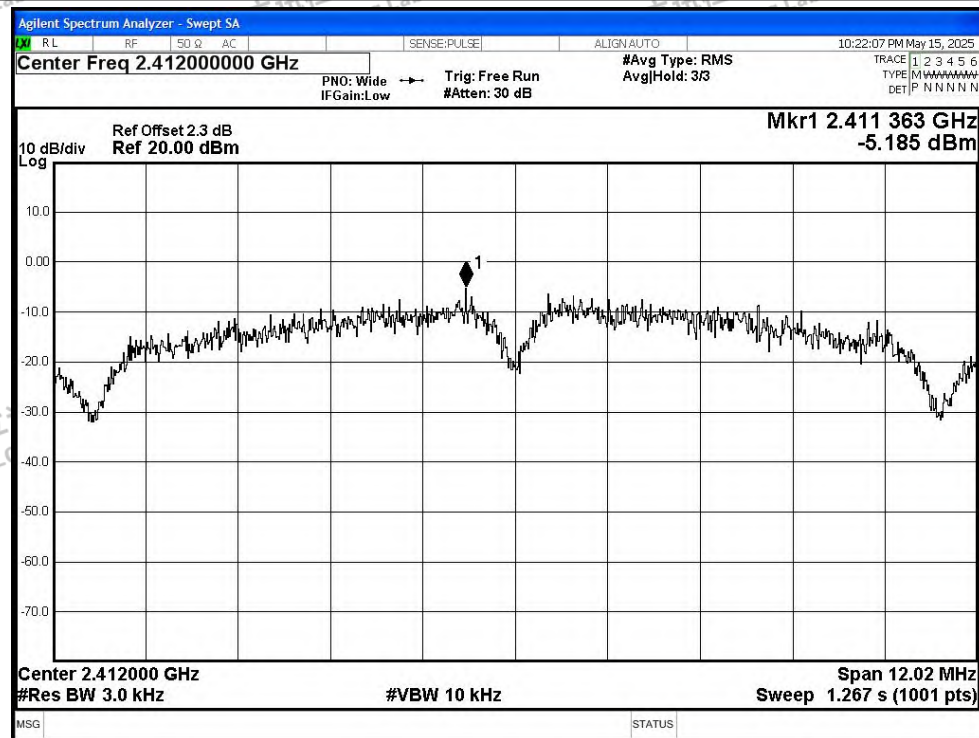
Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
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NVNT	n20	2437	-13.04	-14.88	-10.85	8	Pass
NVNT	n20	2462	-13.31	-14.77	-10.97	8	Pass
NVNT	n40	2412	-15.84	-17.55	-13.60	8	Pass
NVNT	n40	2437	-17.05	-18.75	-14.81	8	Pass
NVNT	n40	2462	-17.66	-17.5	-14.57	8	Pass



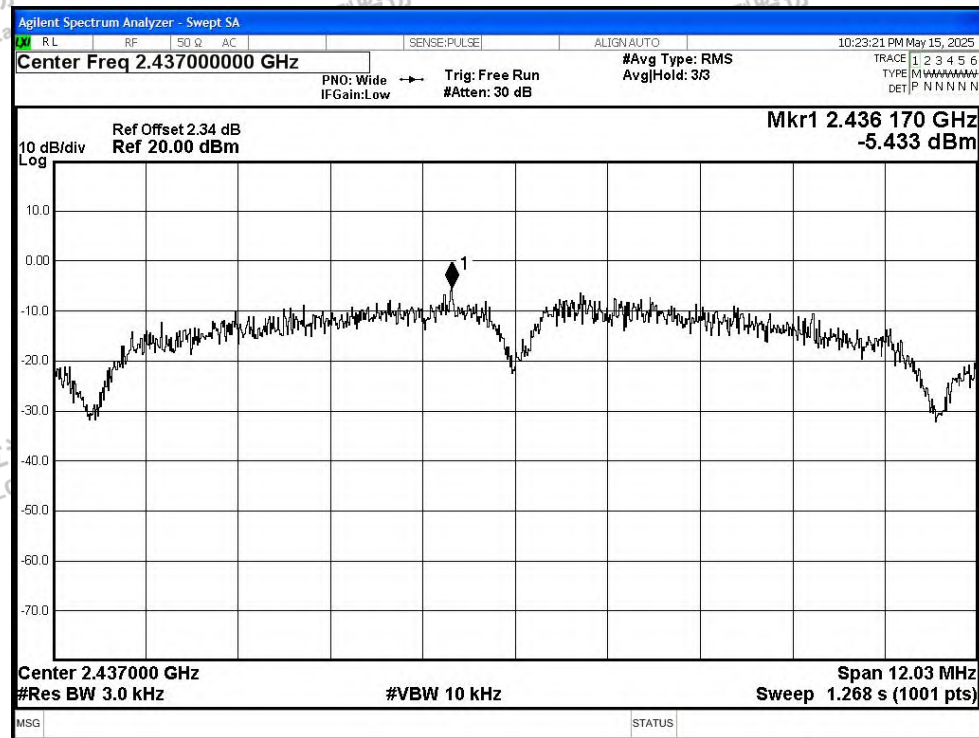


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

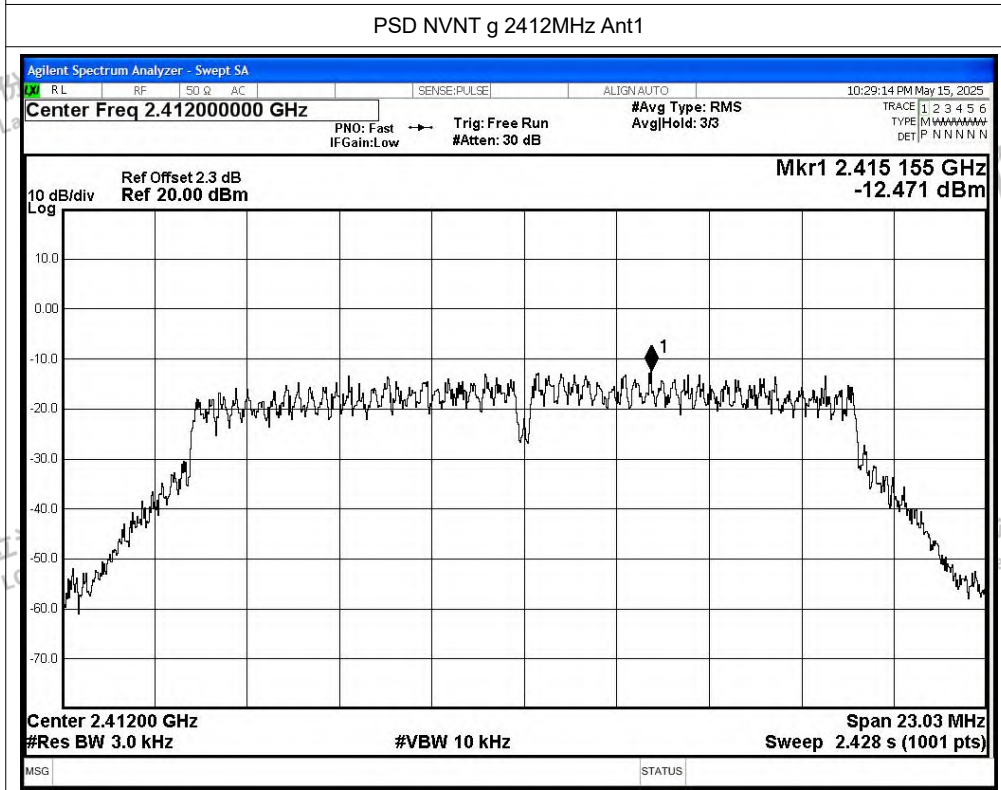
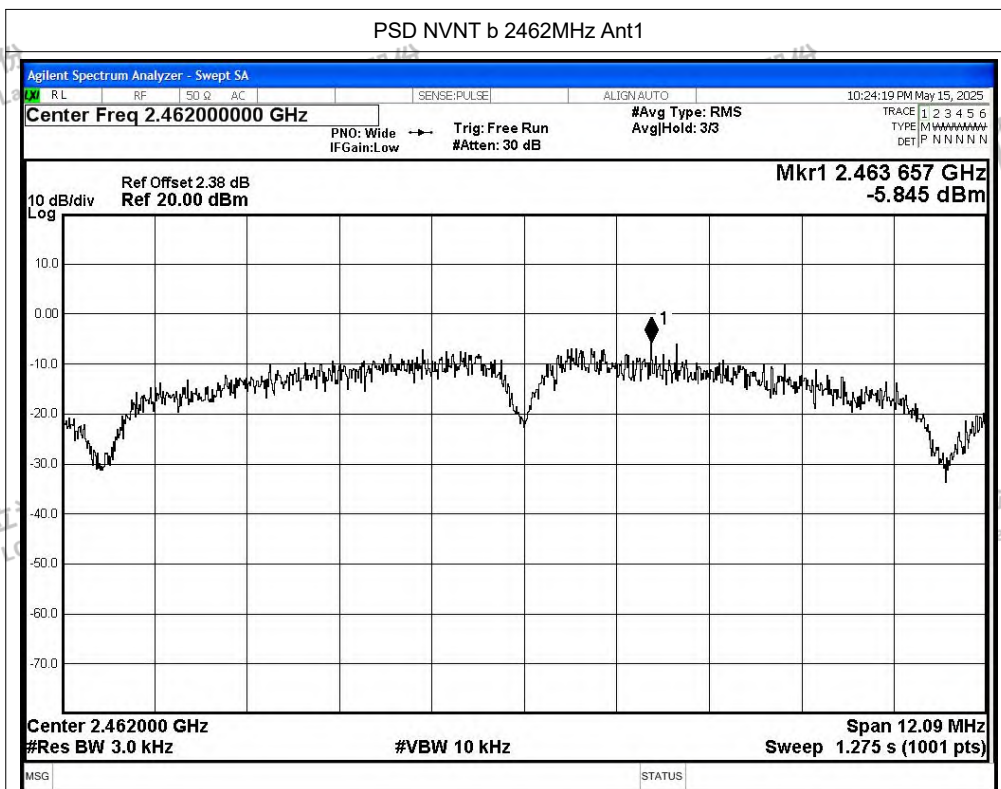


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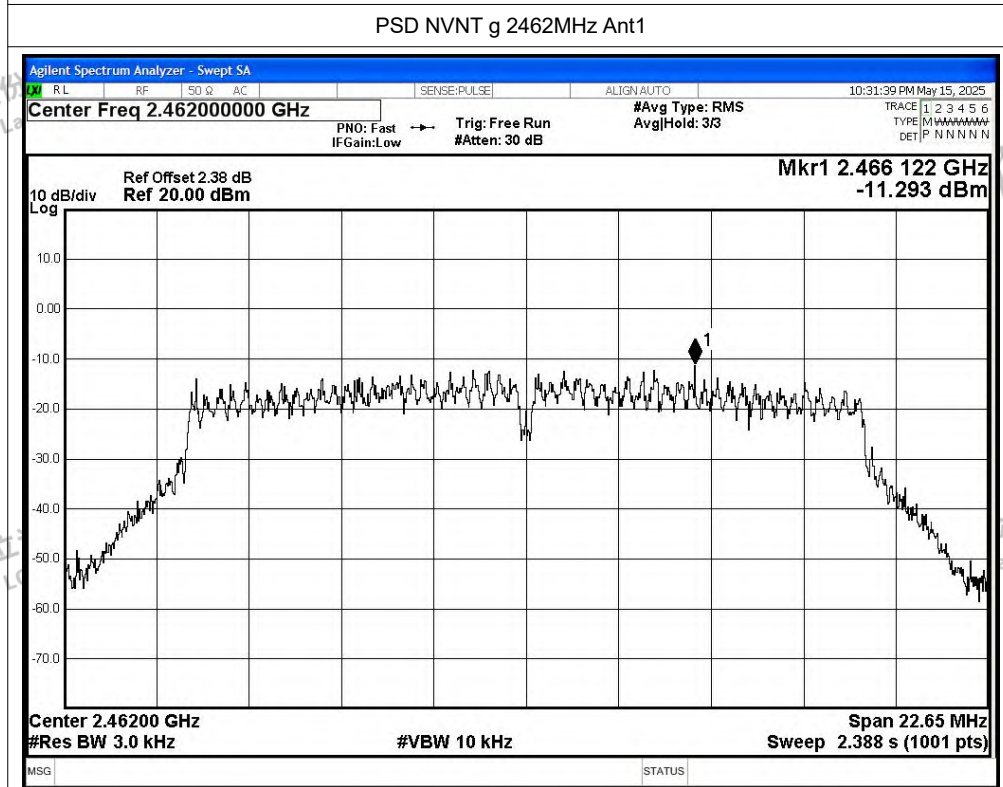
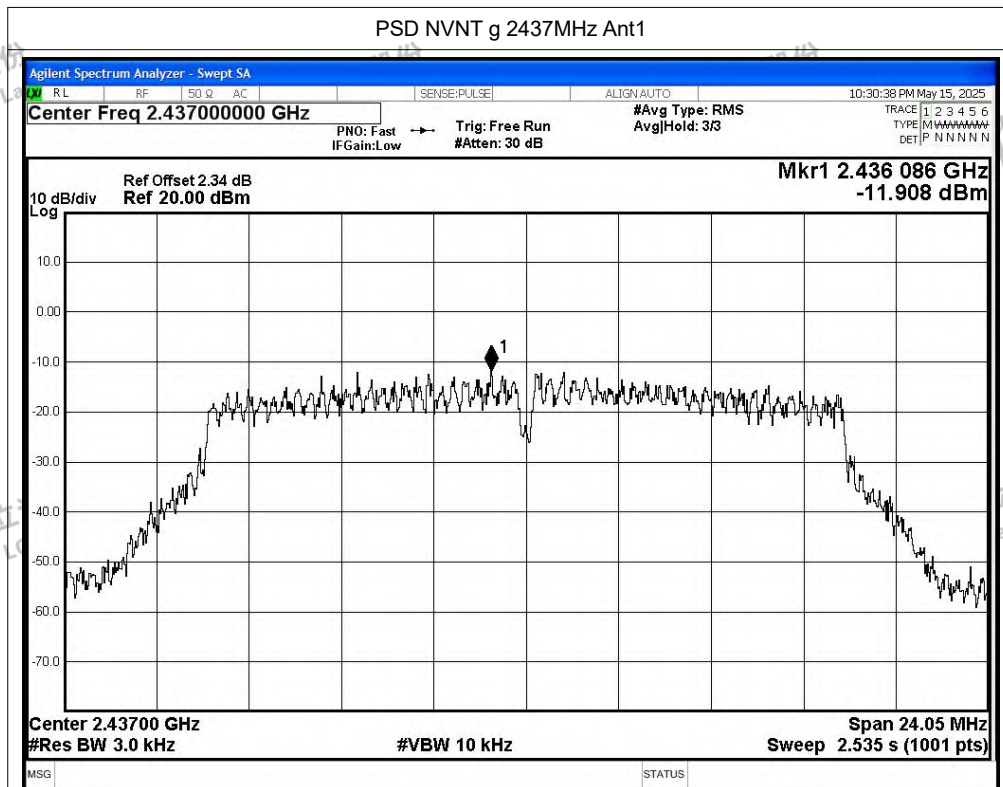


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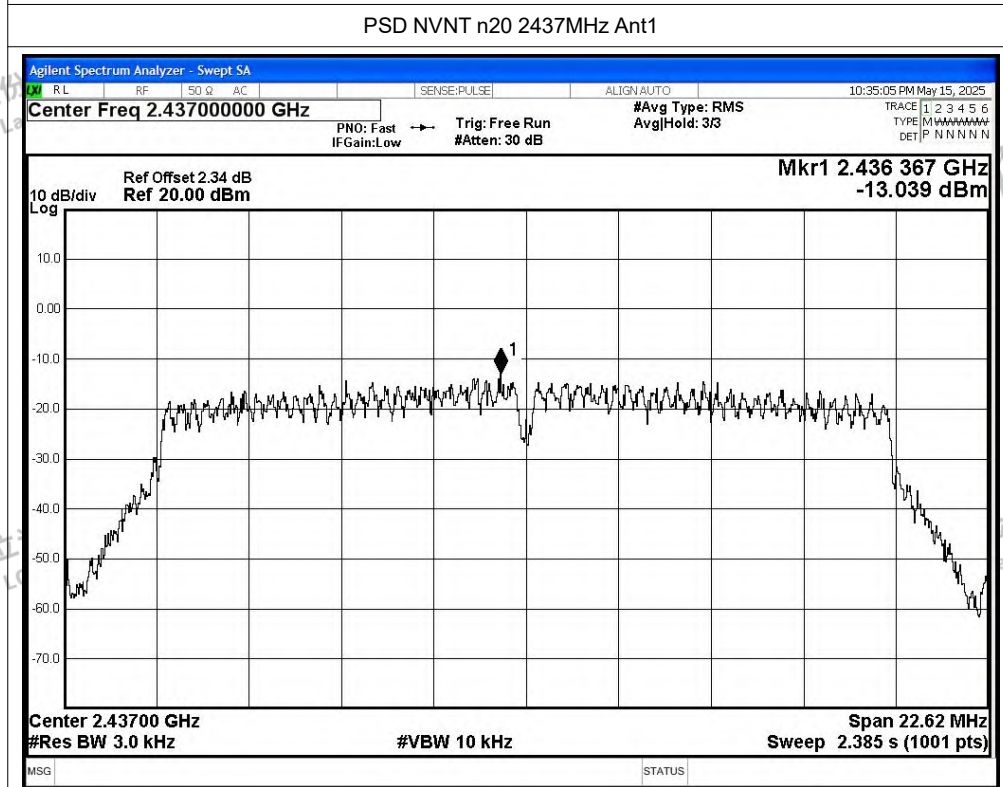
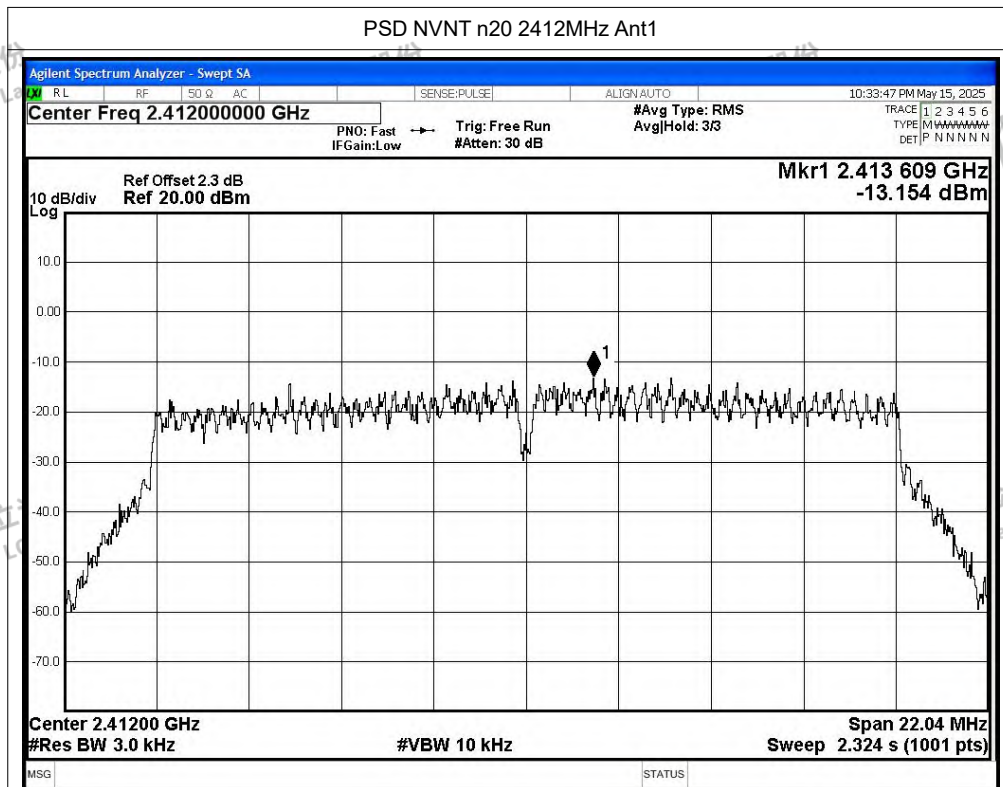


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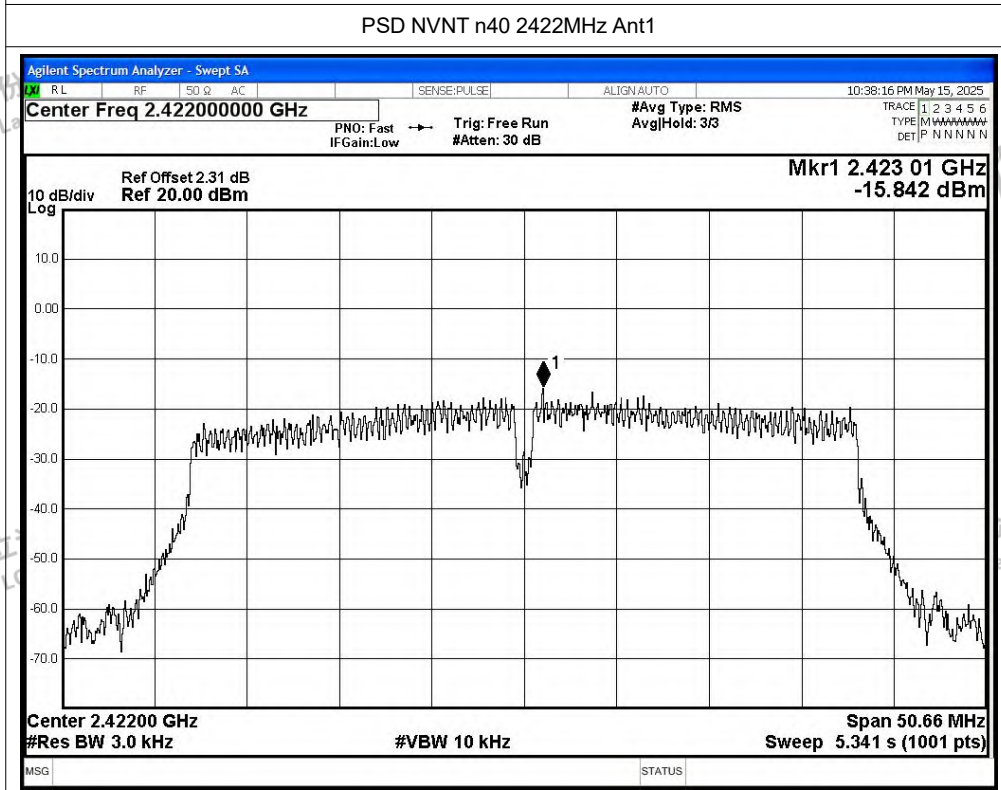
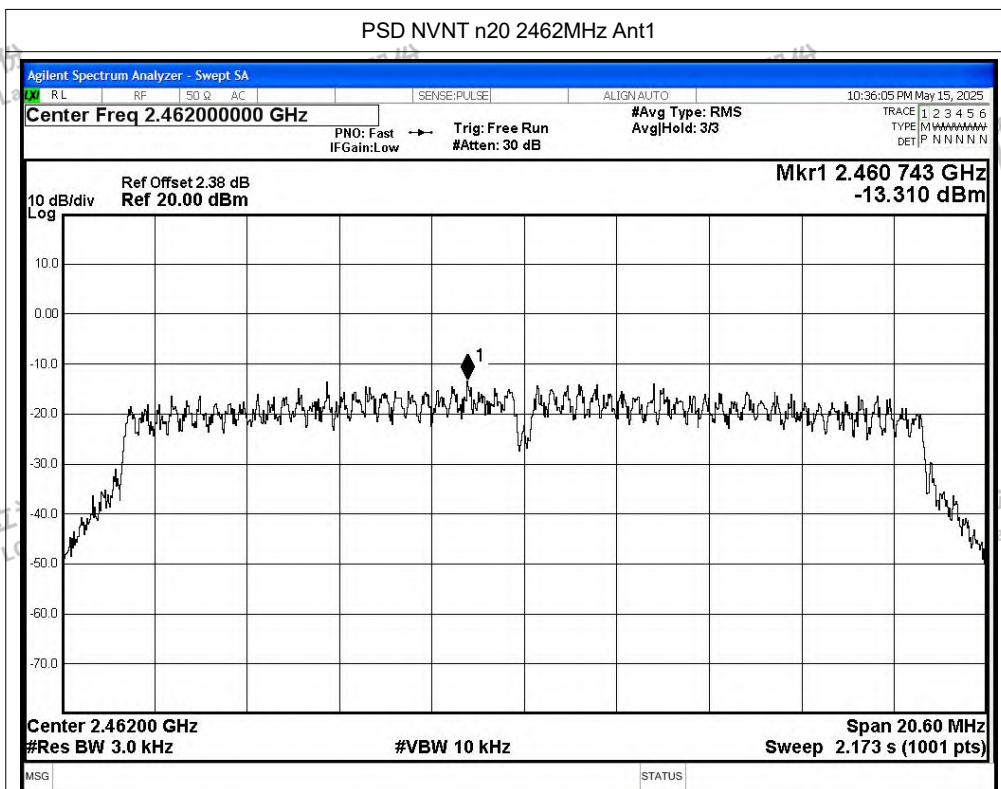


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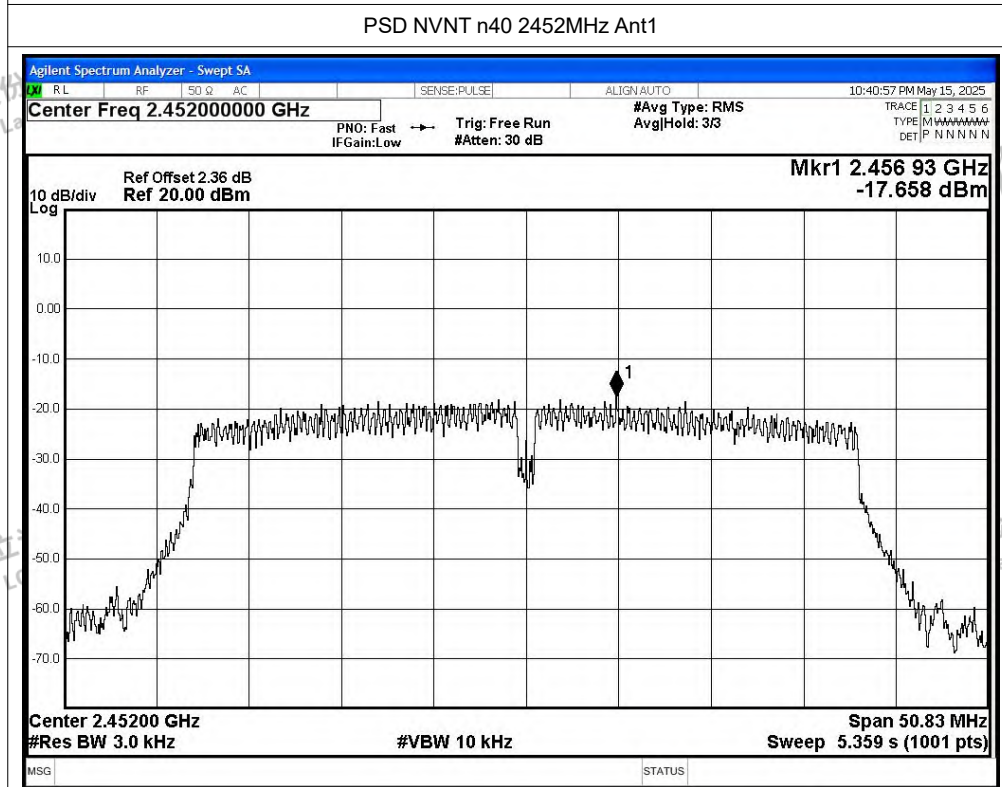
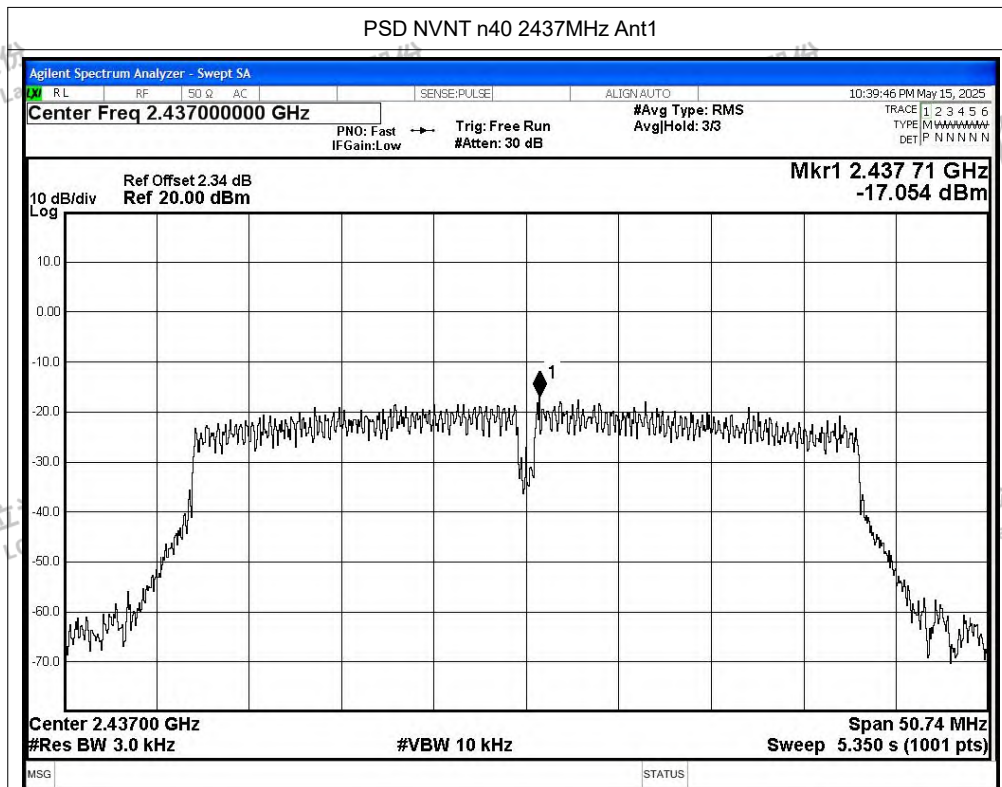


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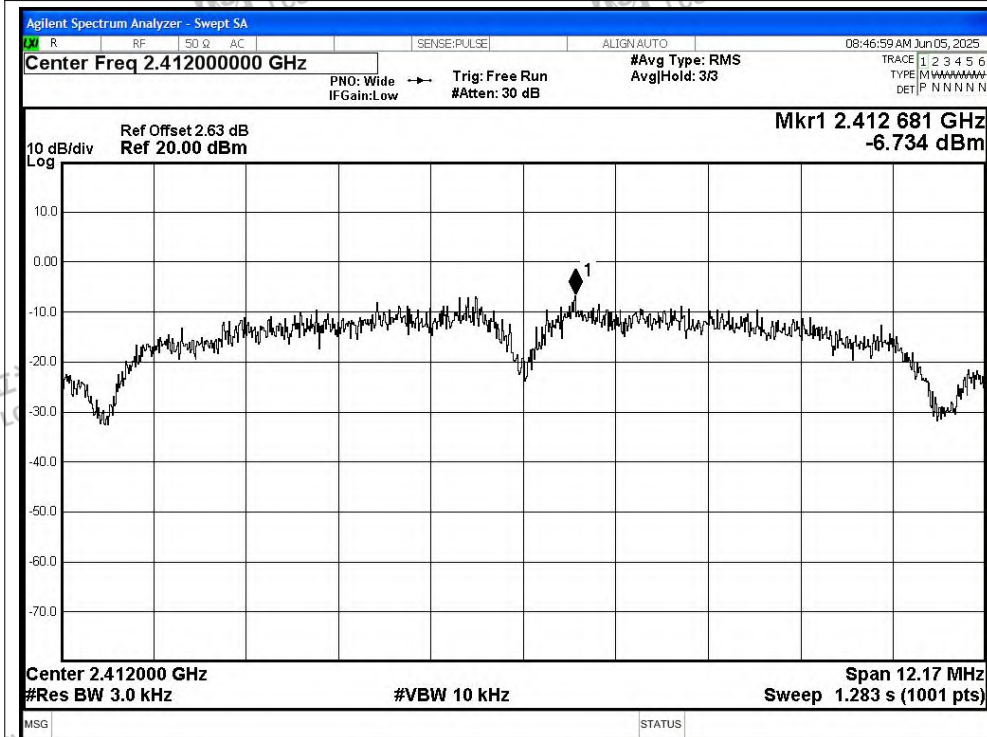
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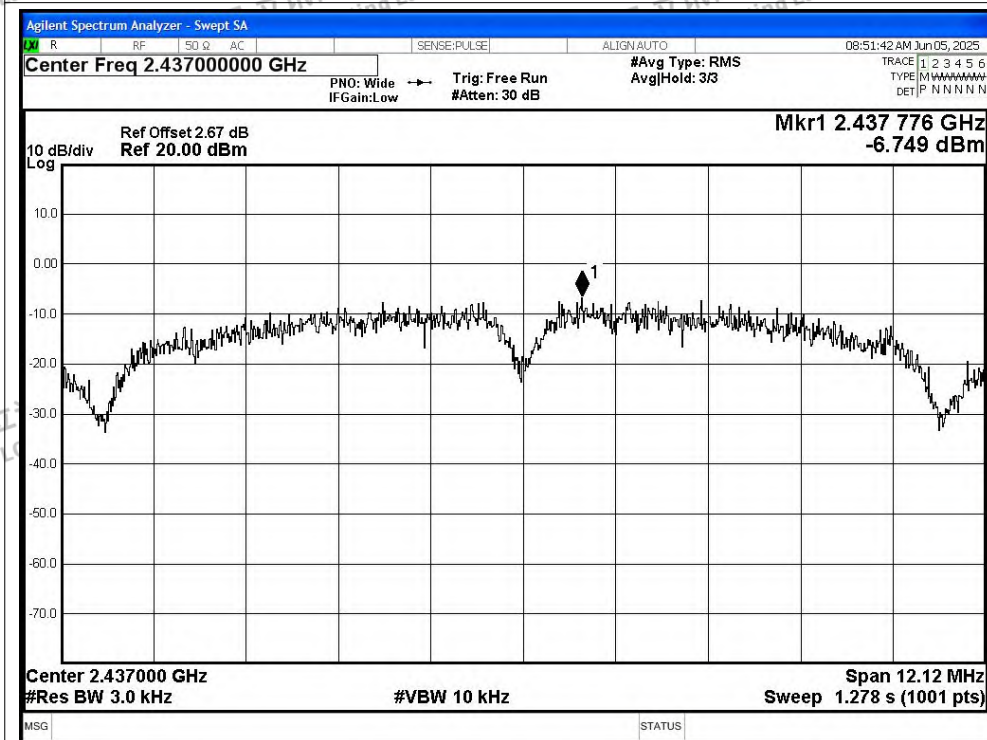


Test Graphs

PSD NVNT b 2412MHz Ant2



PSD NVNT b 2437MHz Ant2

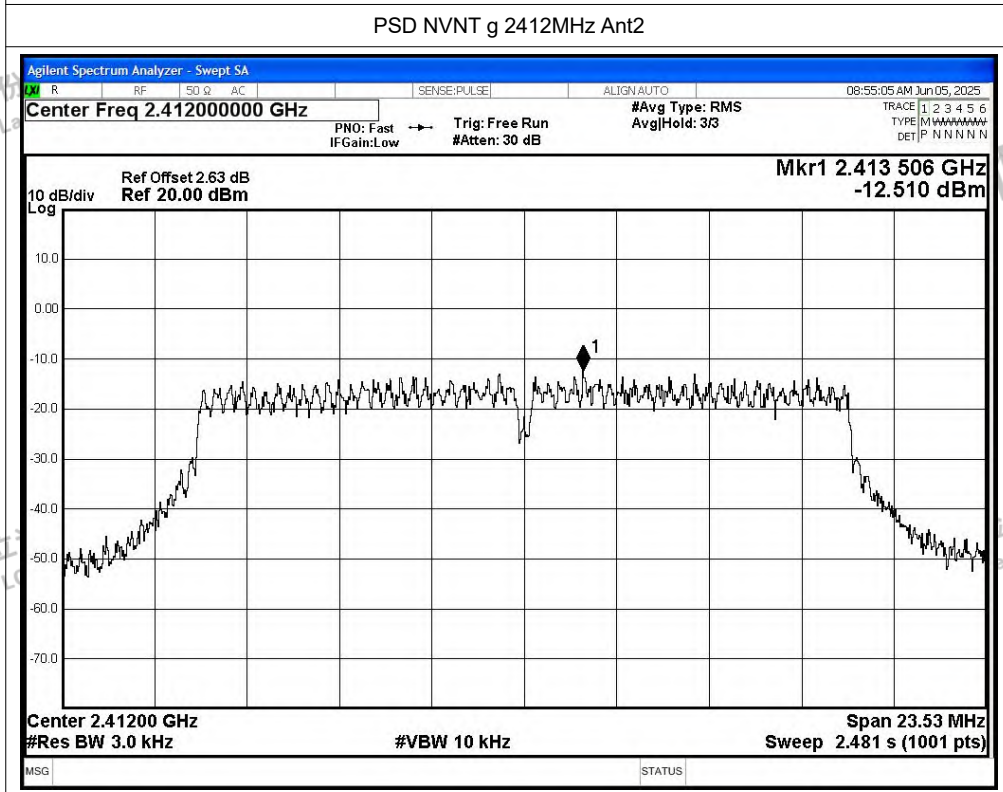
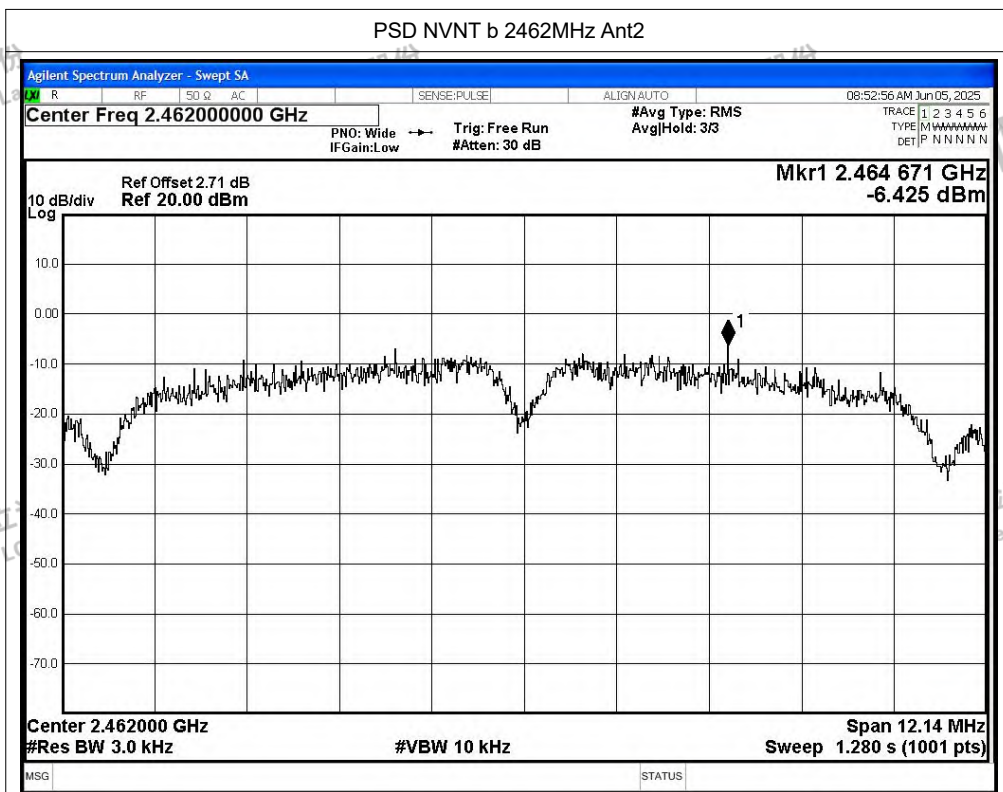


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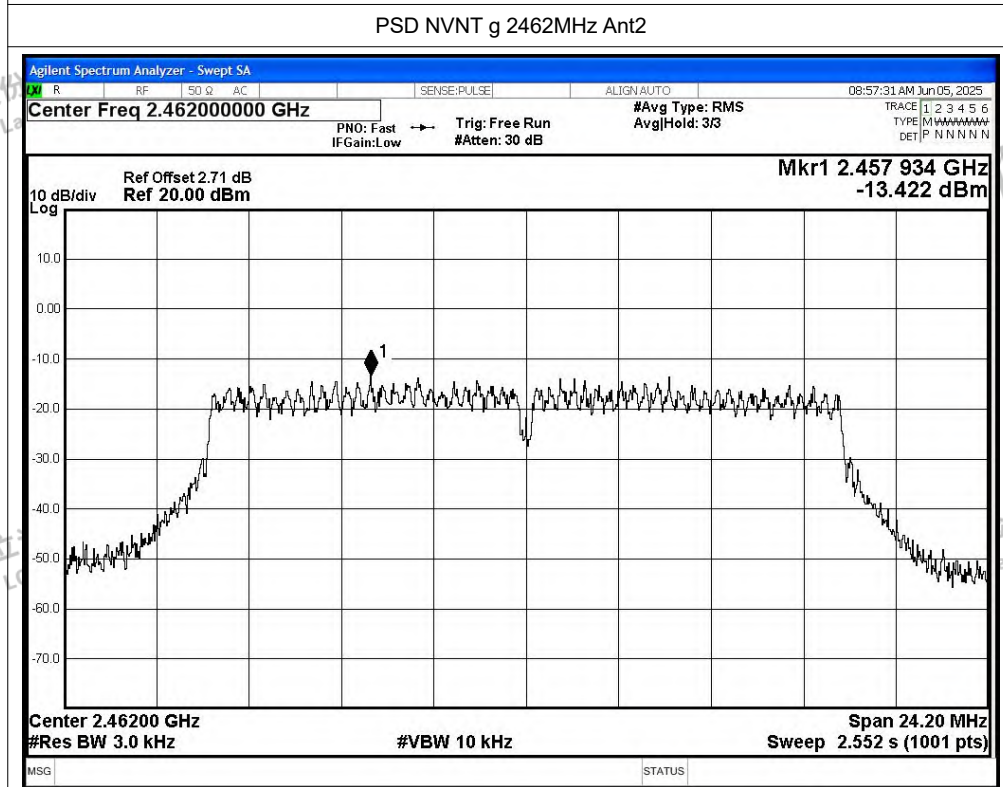
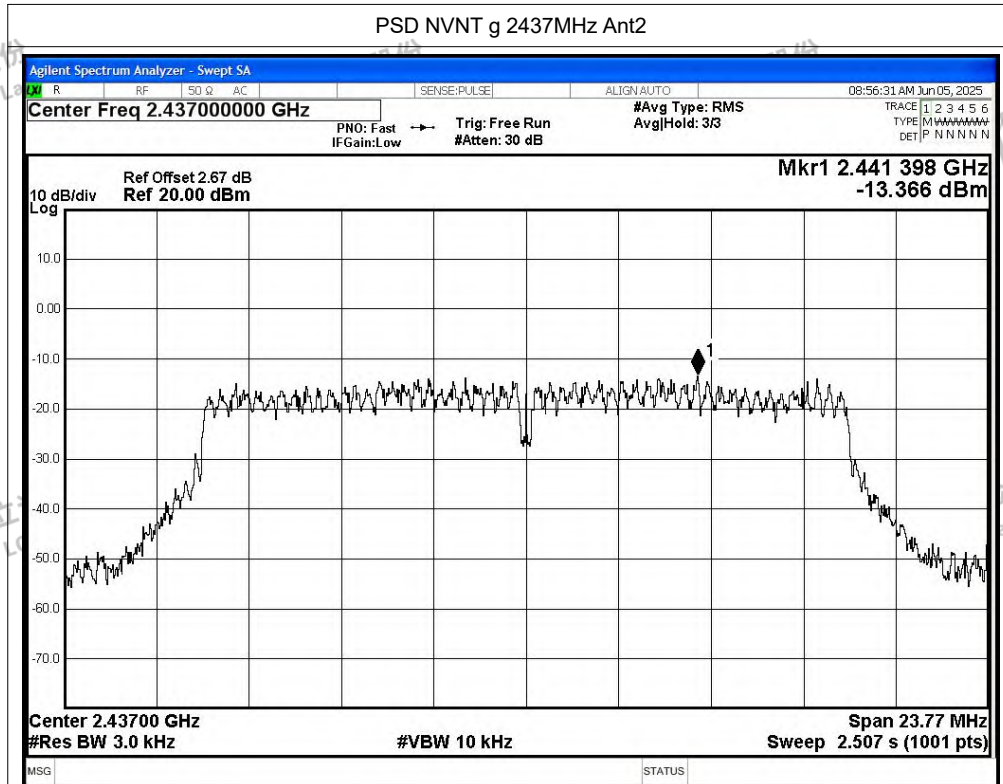


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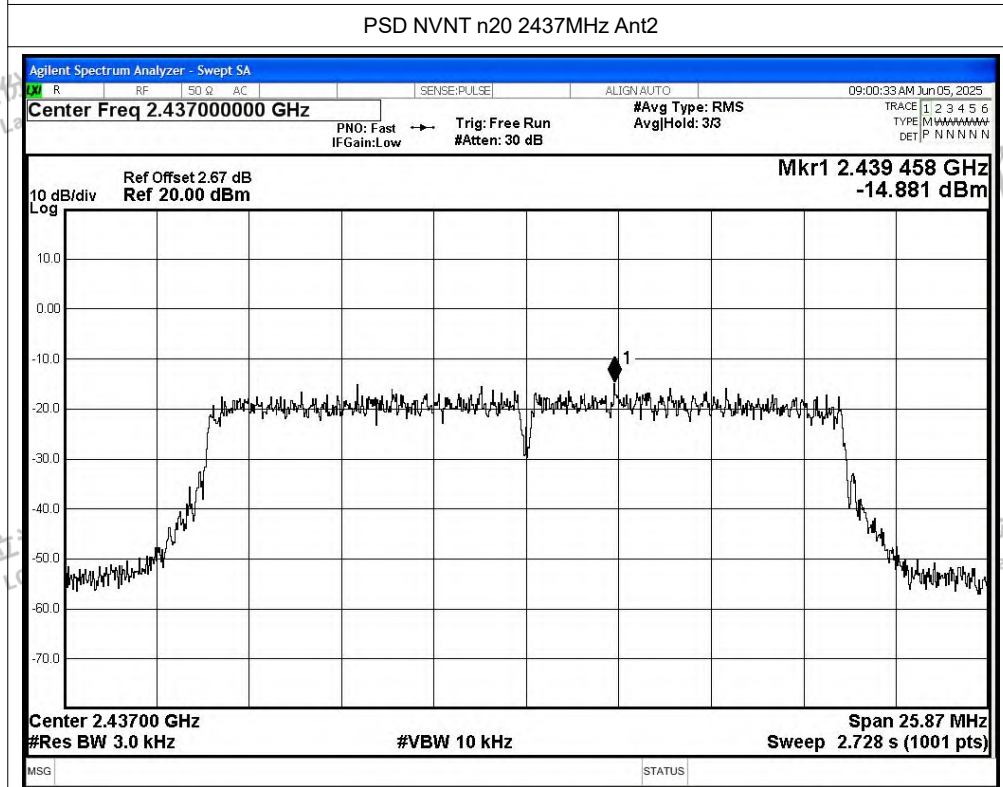
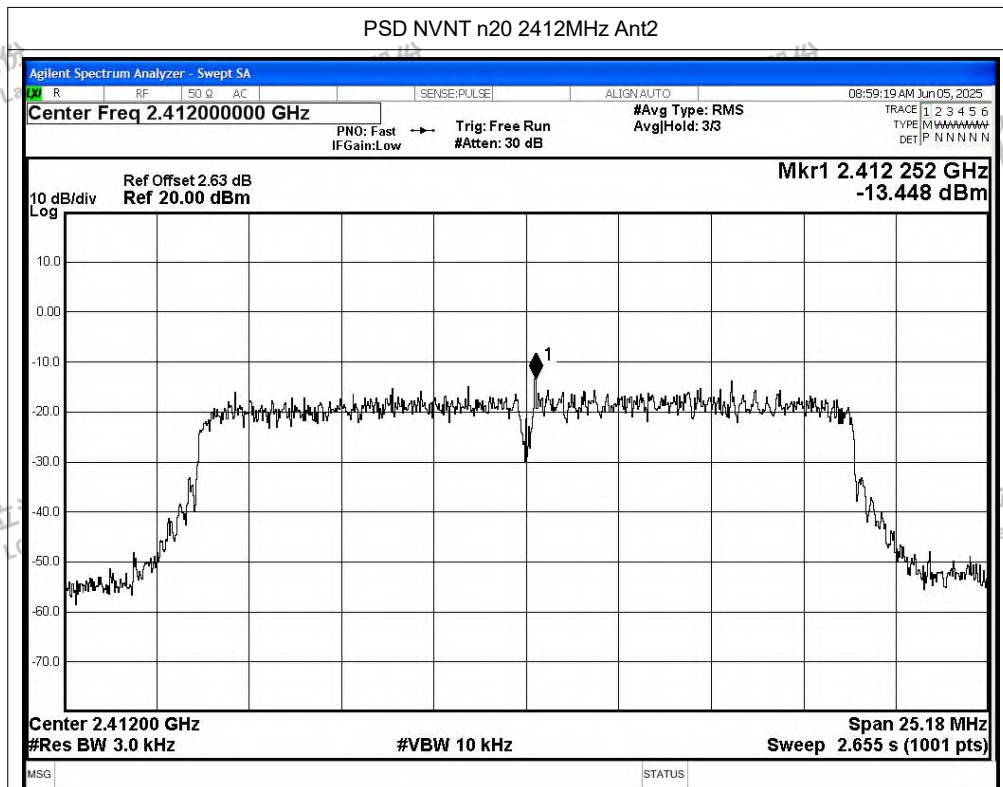


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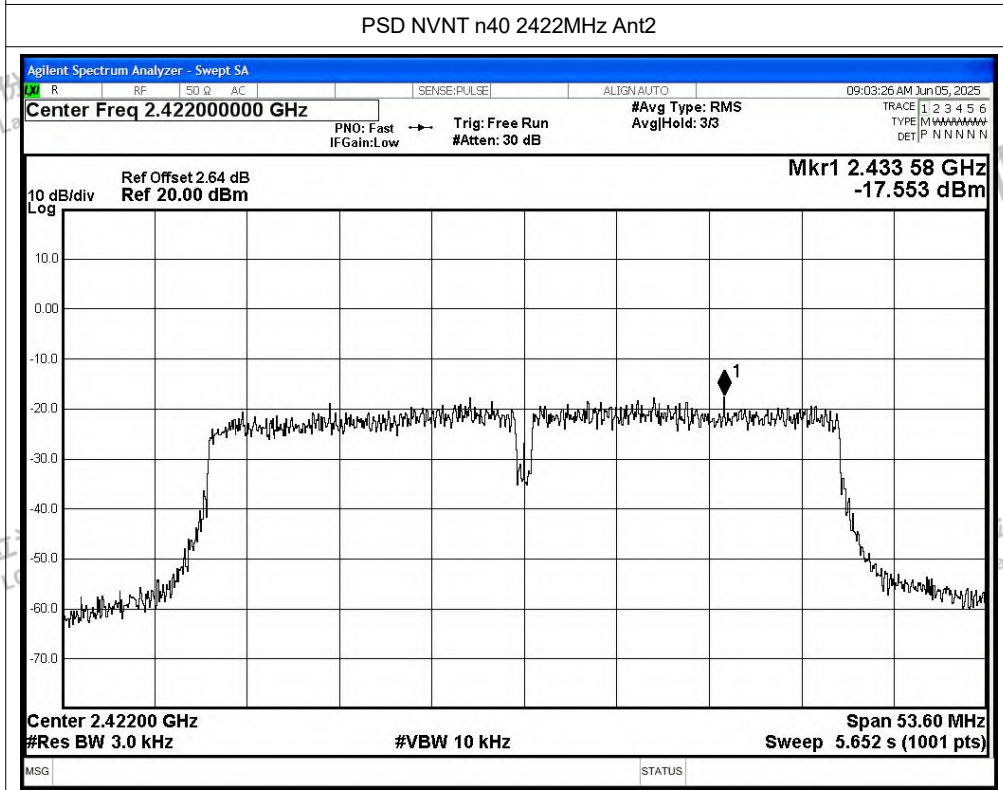
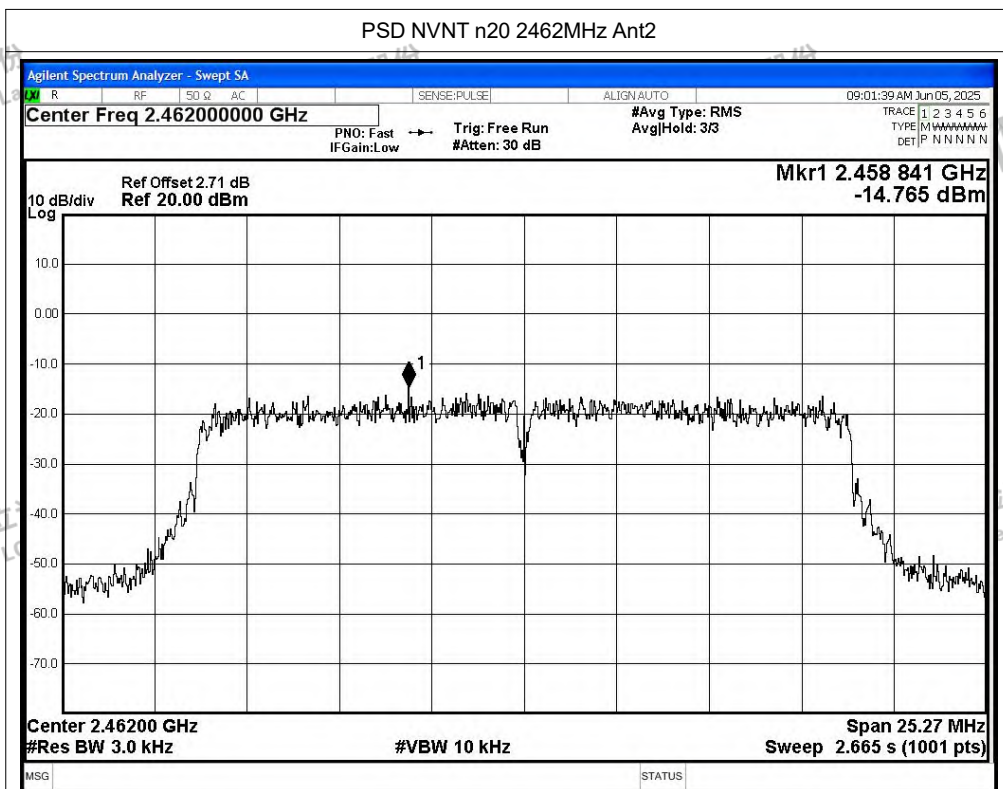


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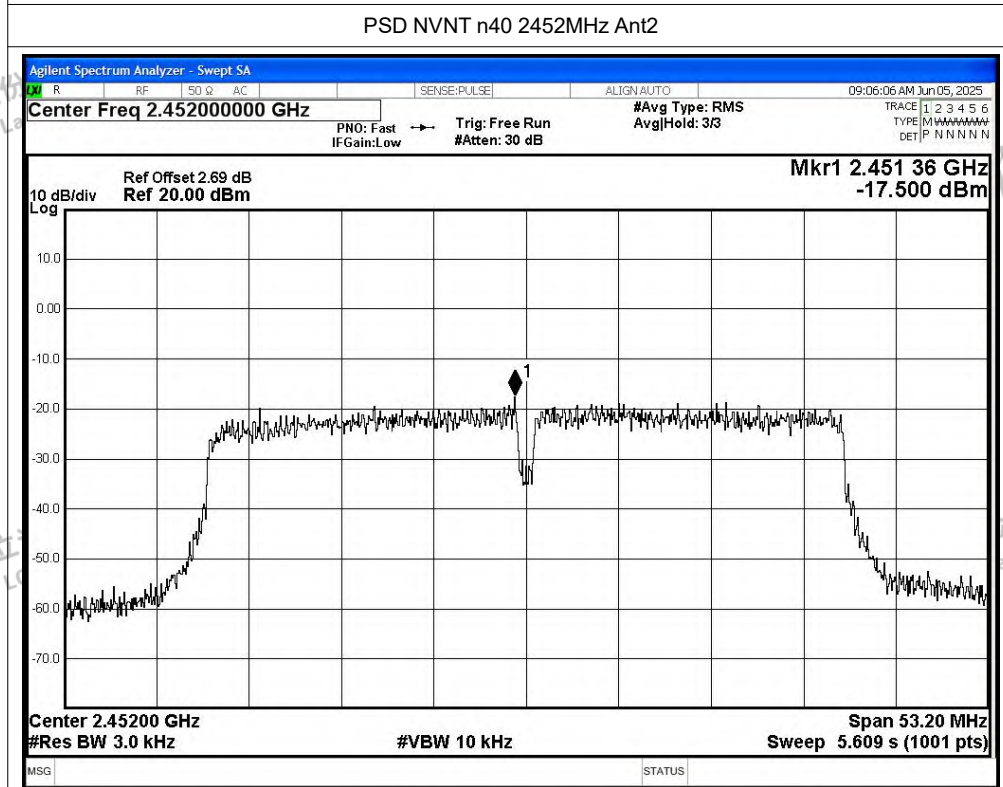
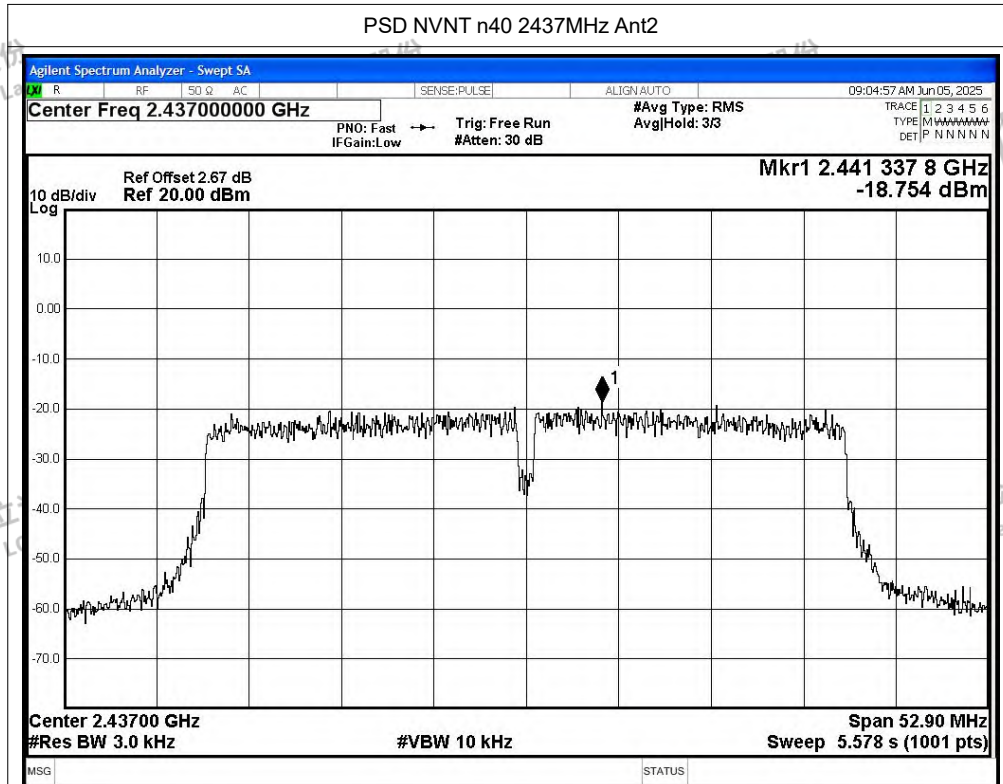


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C.4 Band Edge

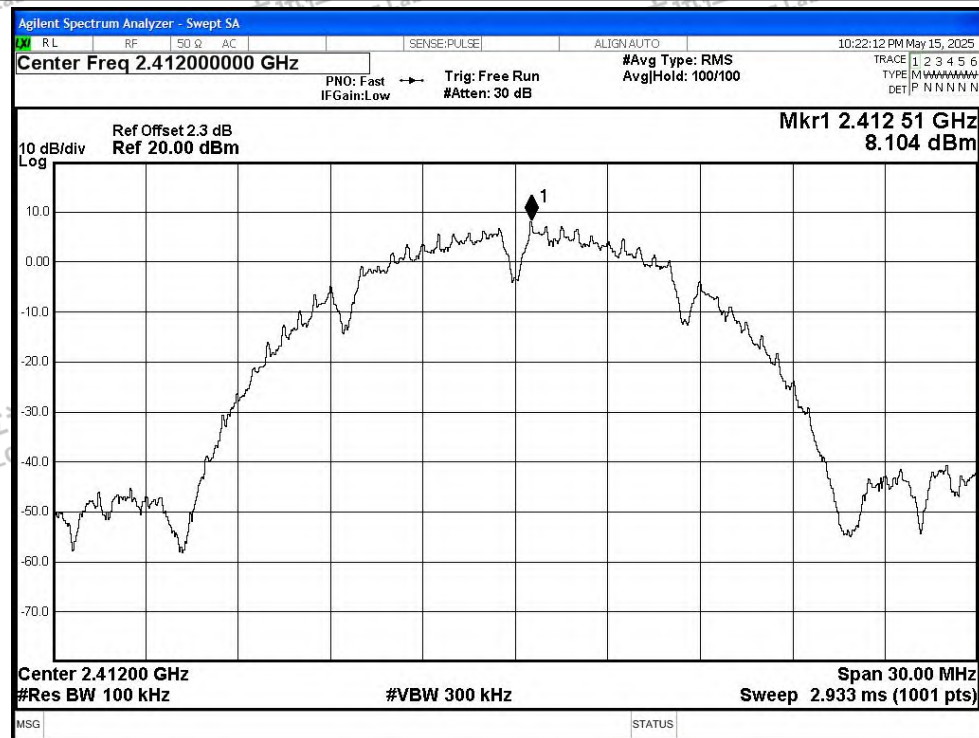
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.27	-20	Pass
NVNT	b	2462	Ant1	-57.97	-20	Pass
NVNT	g	2412	Ant1	-36.48	-20	Pass
NVNT	g	2462	Ant1	-51.91	-20	Pass
NVNT	n20	2412	Ant1	-40.6	-20	Pass
NVNT	n20	2462	Ant1	-51.6	-20	Pass
NVNT	n40	2422	Ant1	-40.51	-20	Pass
NVNT	n40	2452	Ant1	-41.02	-20	Pass



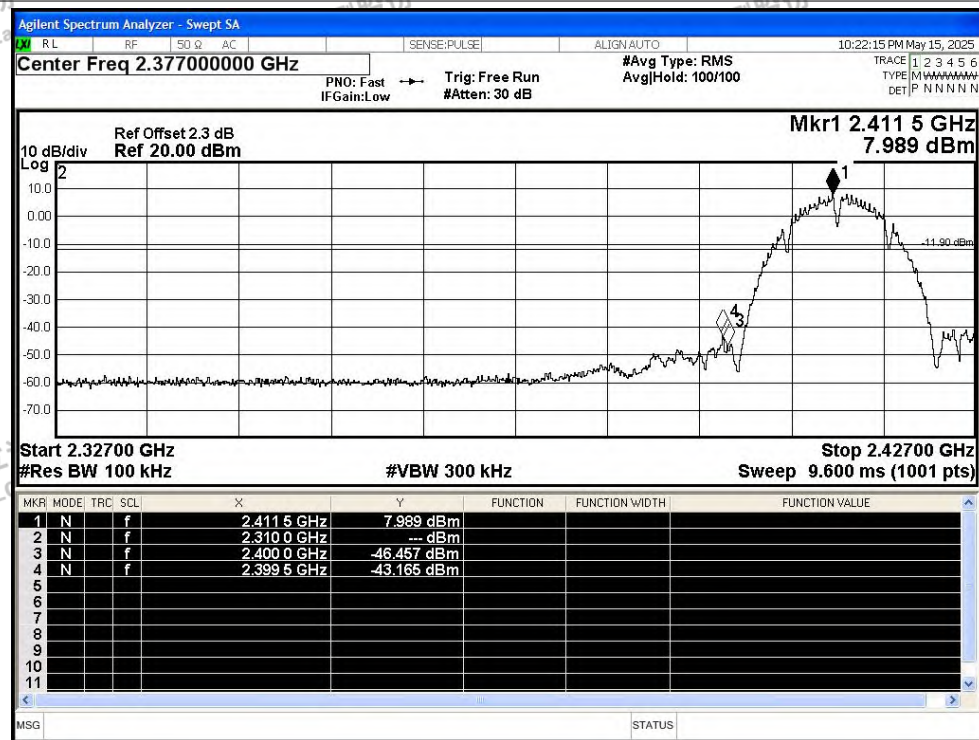


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

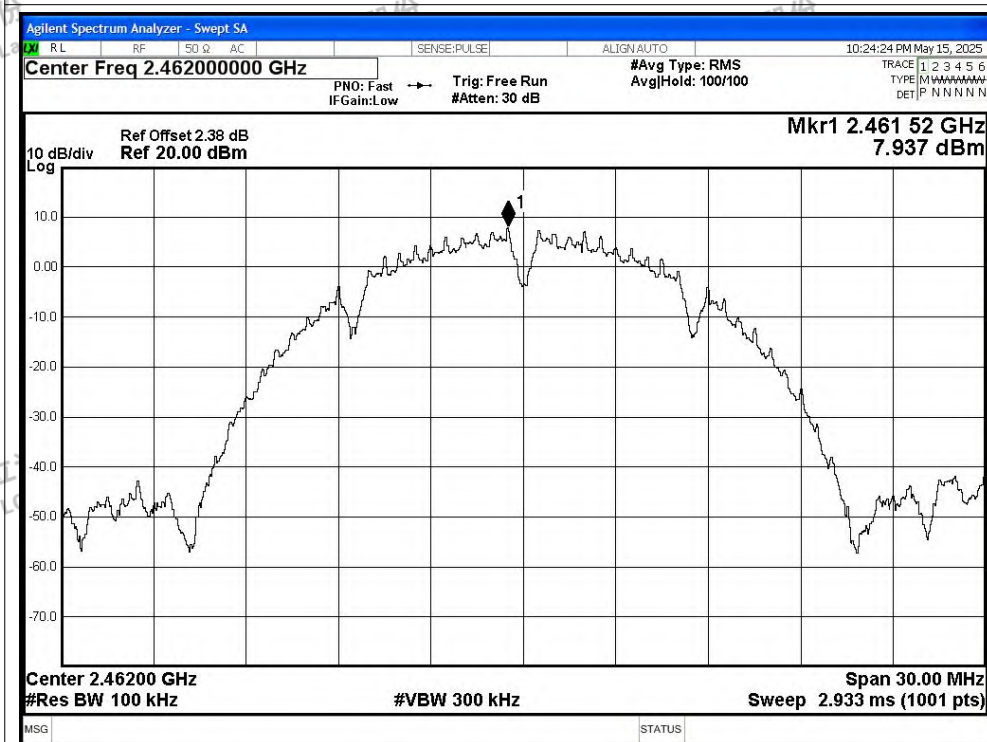
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

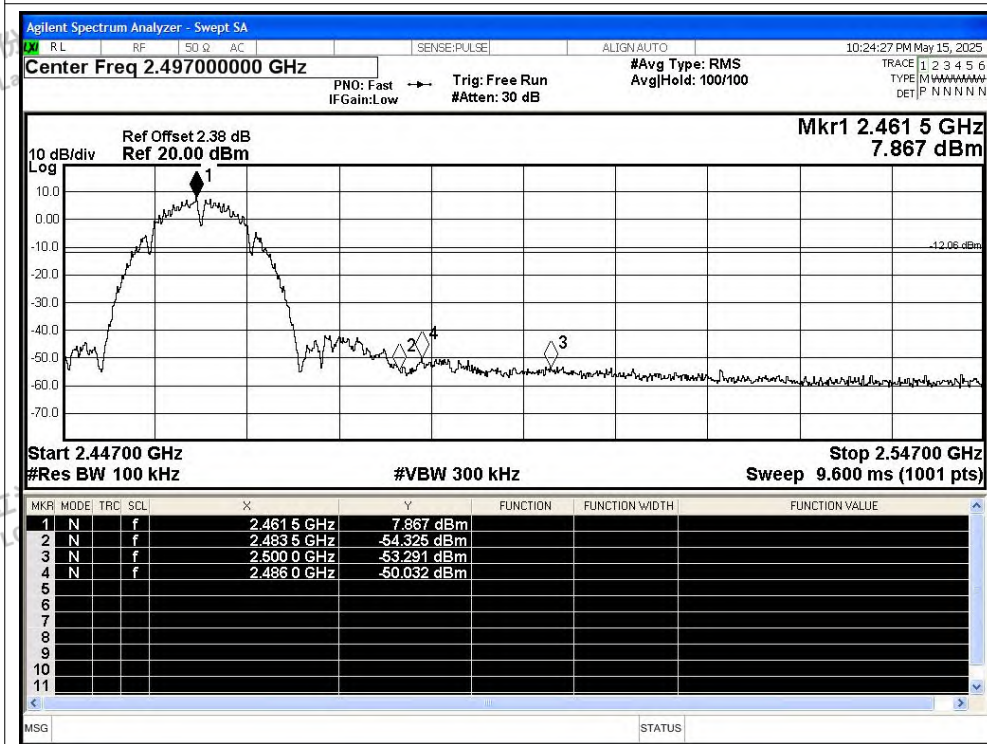
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

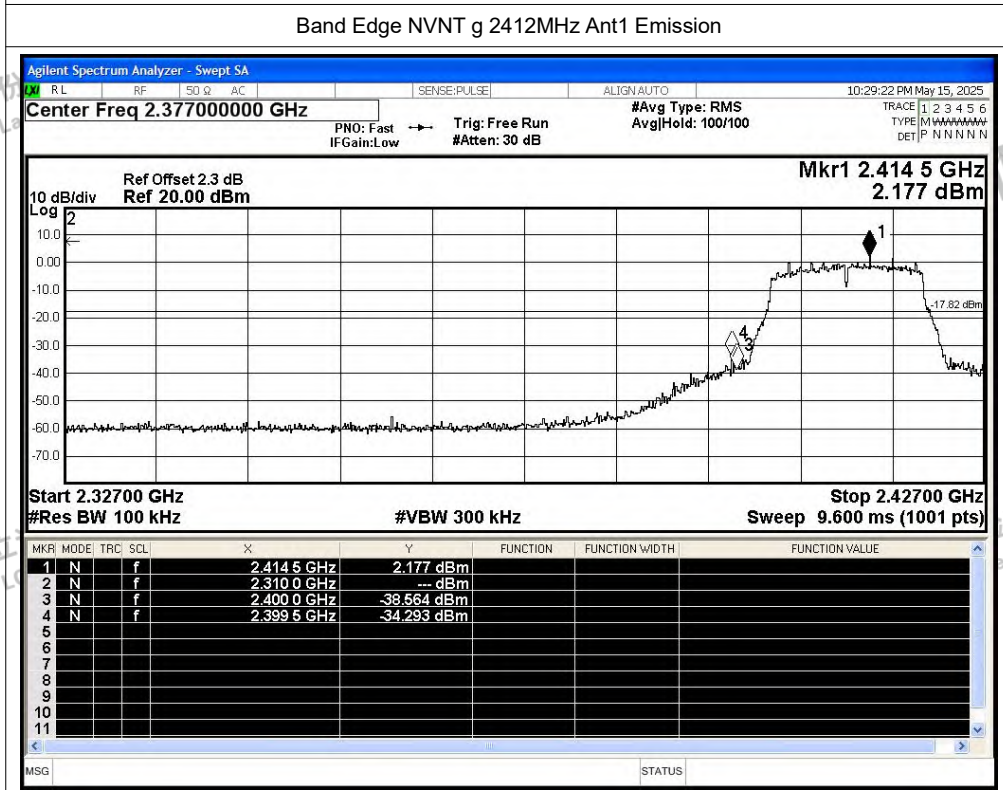
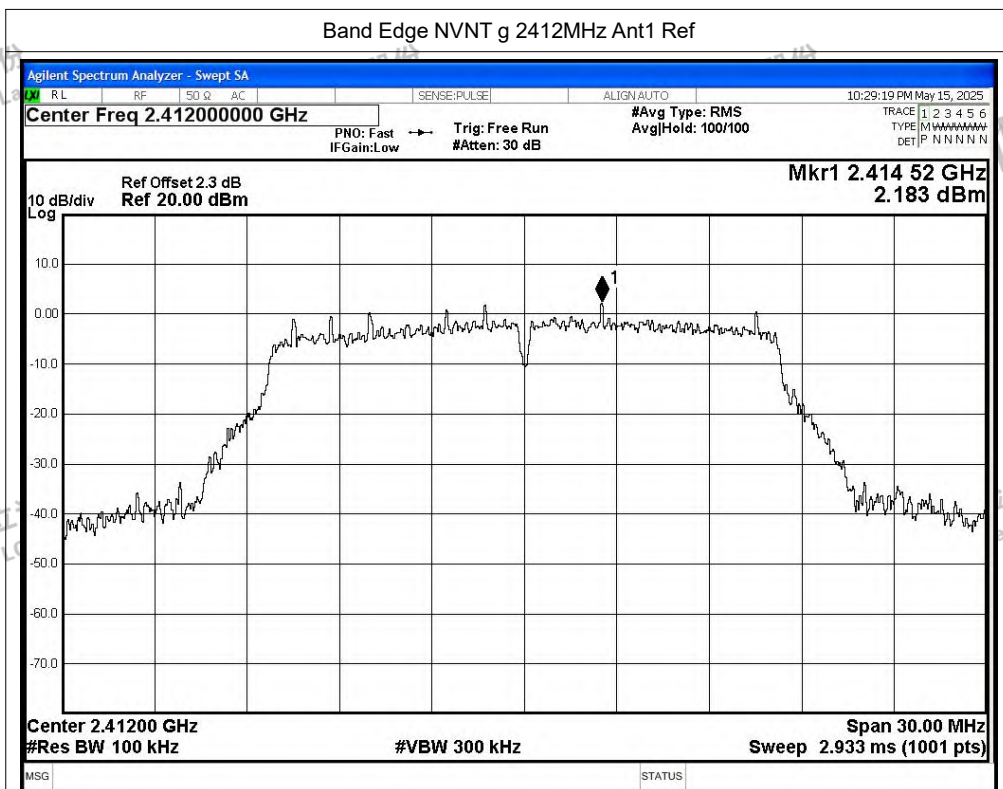


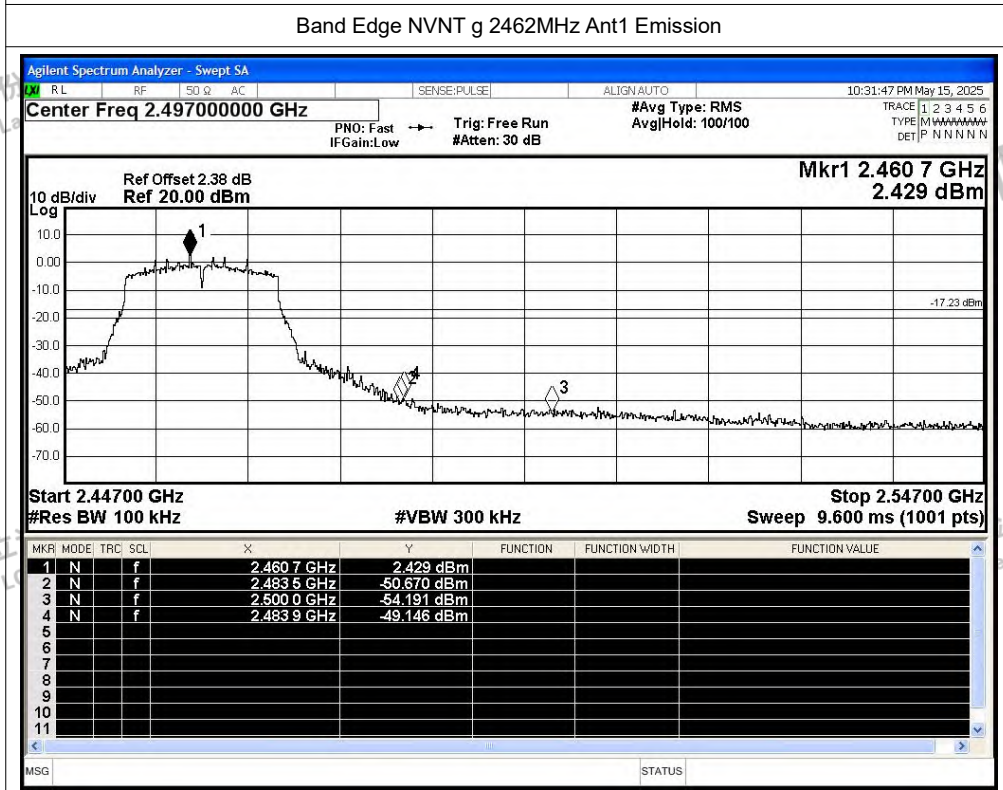
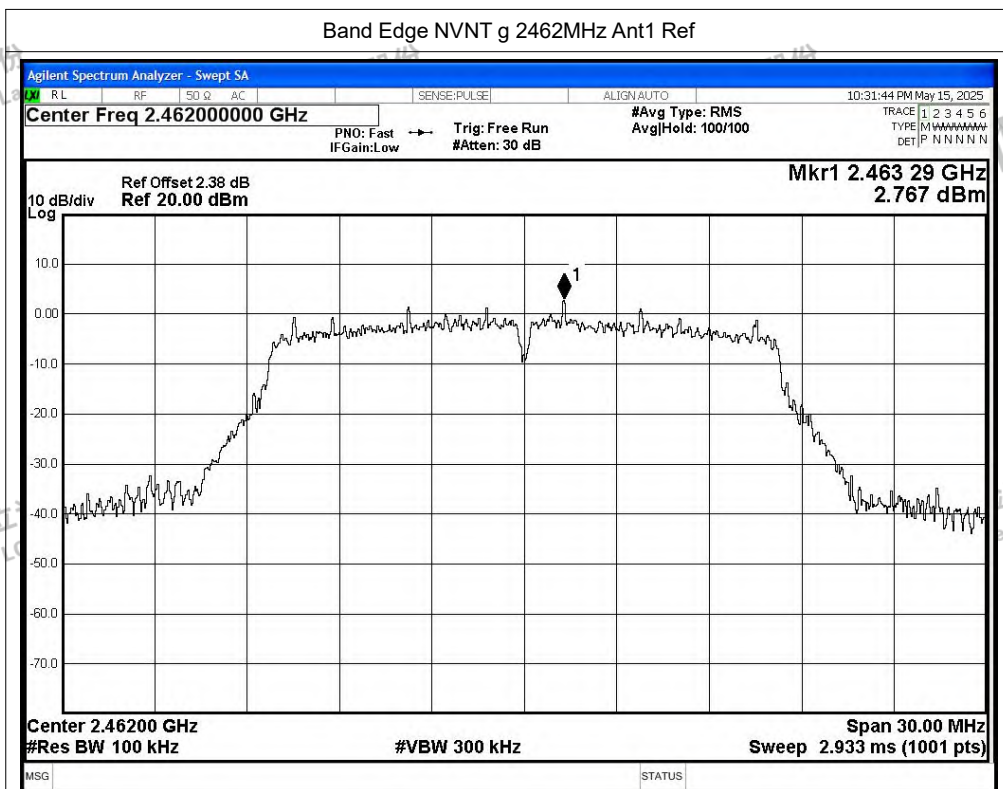
Shenzhen LCS Compliance Testing Laboratory Ltd.

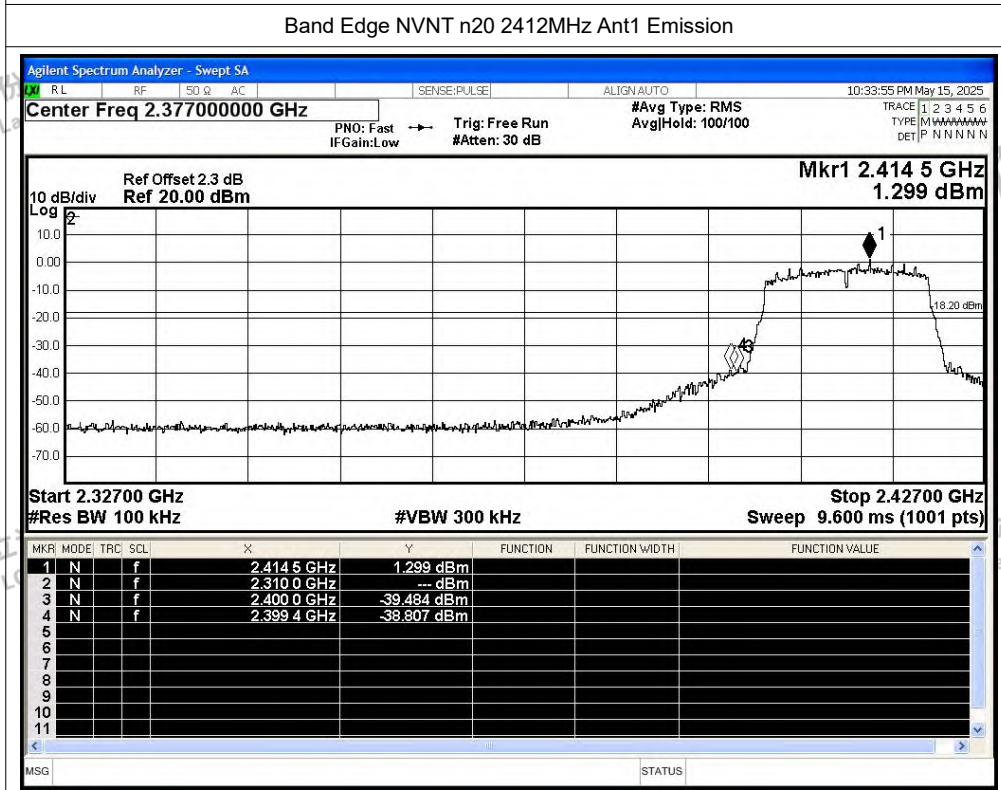
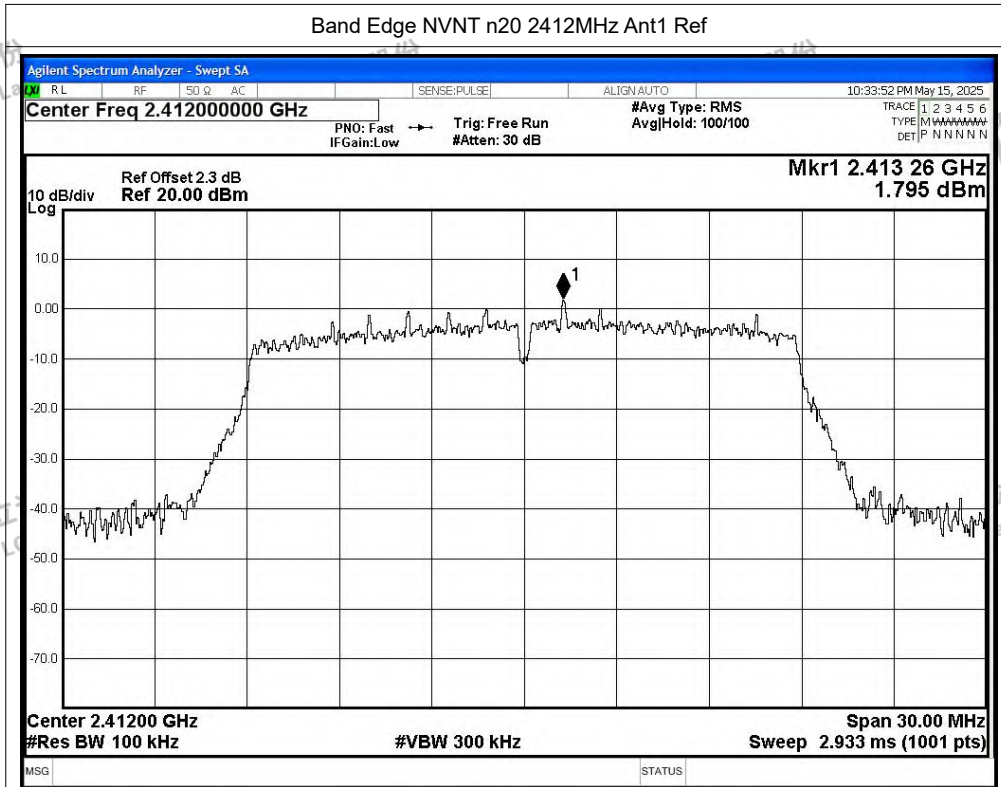
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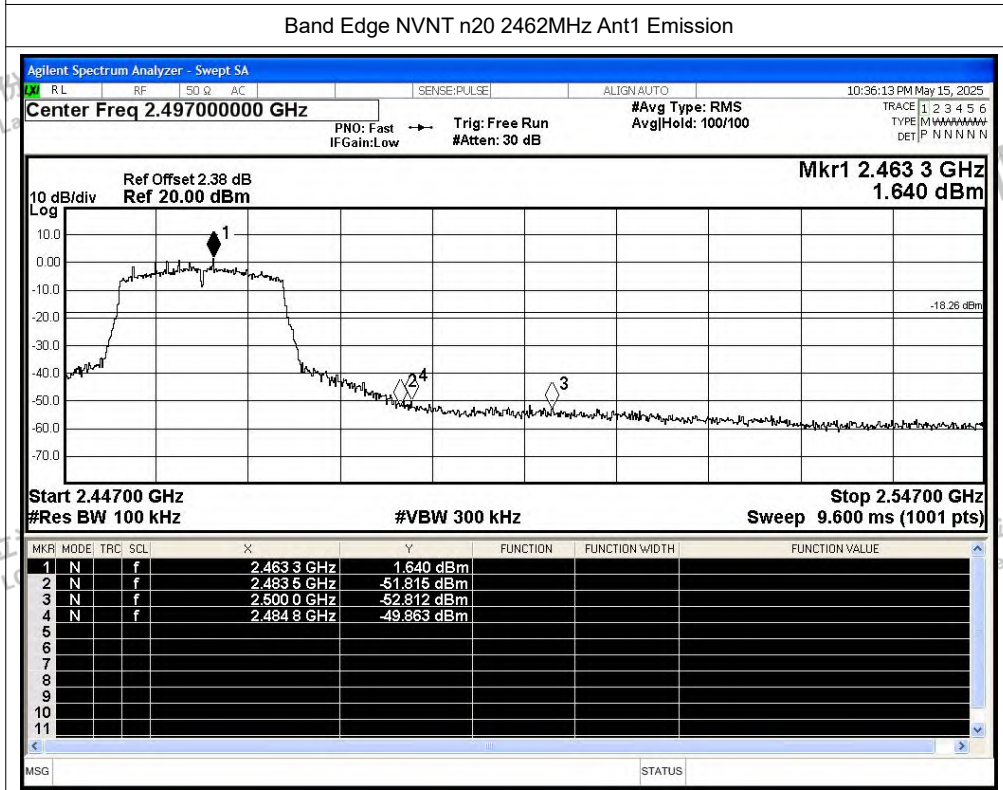
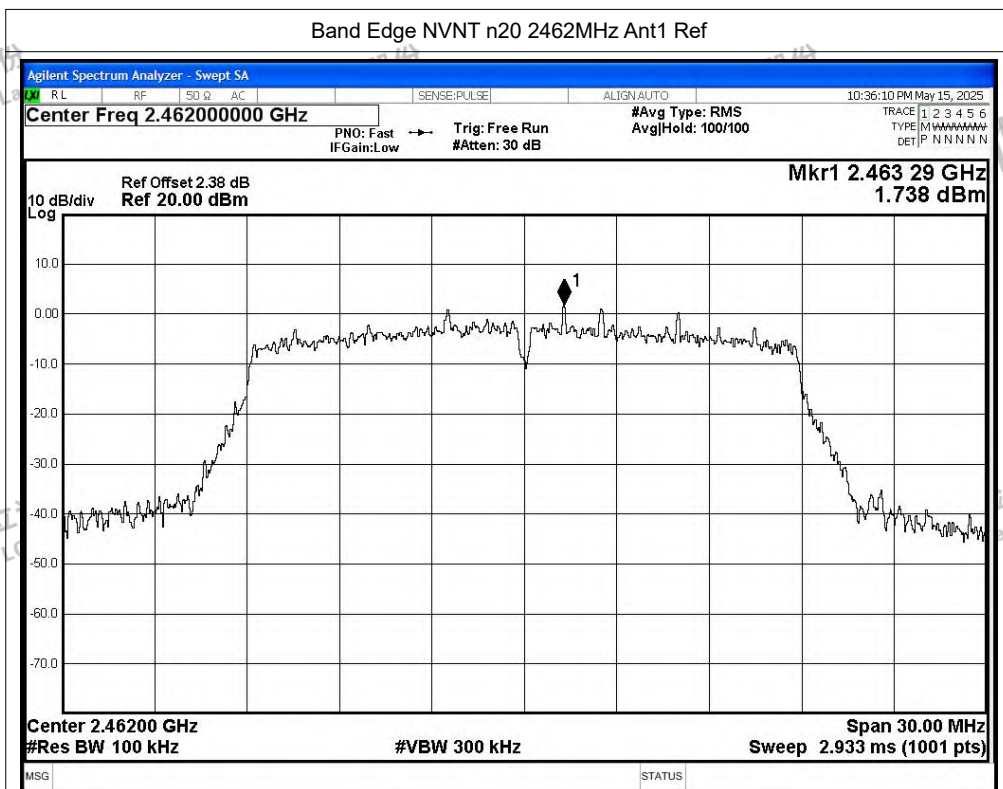
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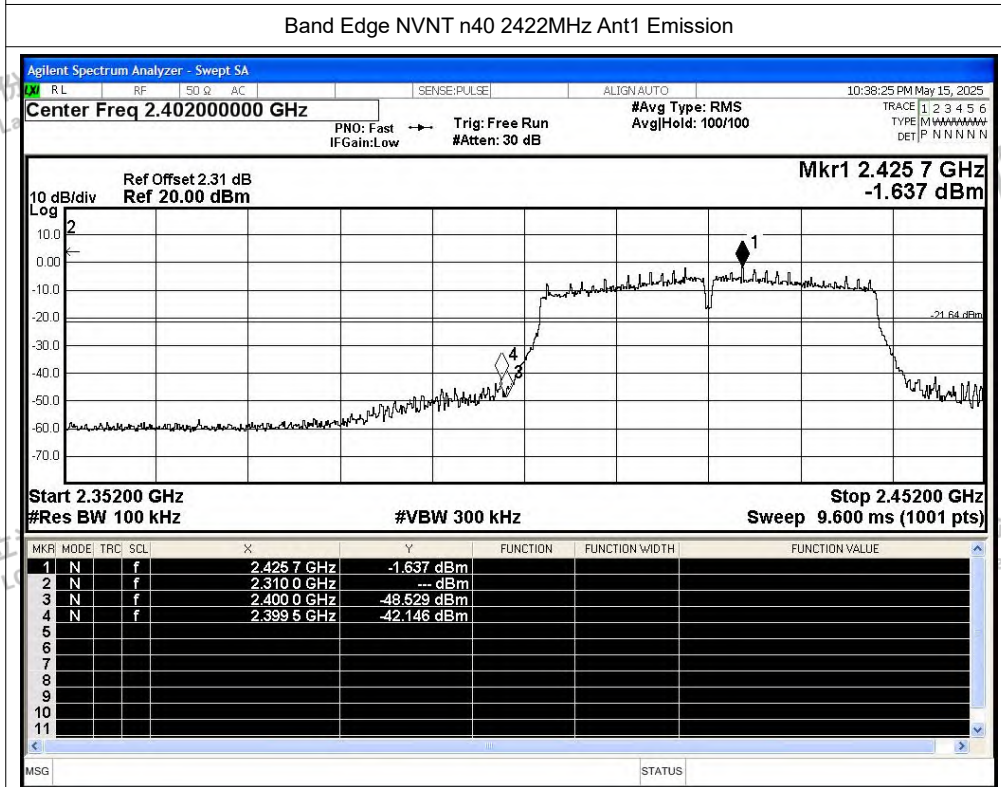
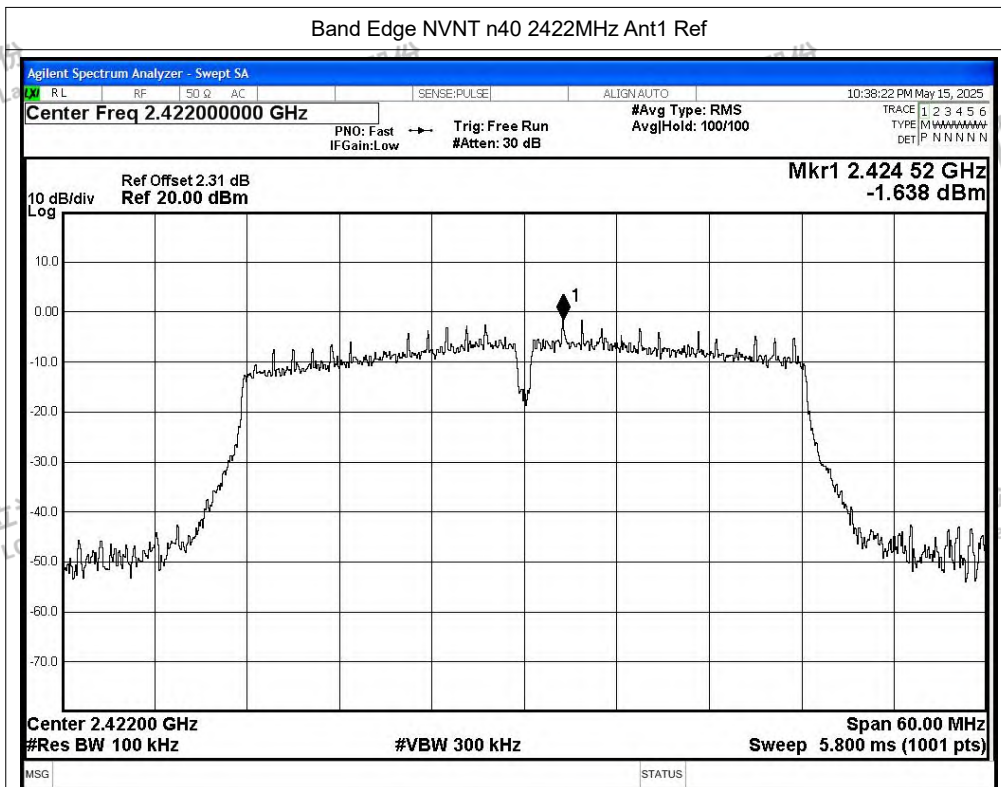
Scan code to check authenticity









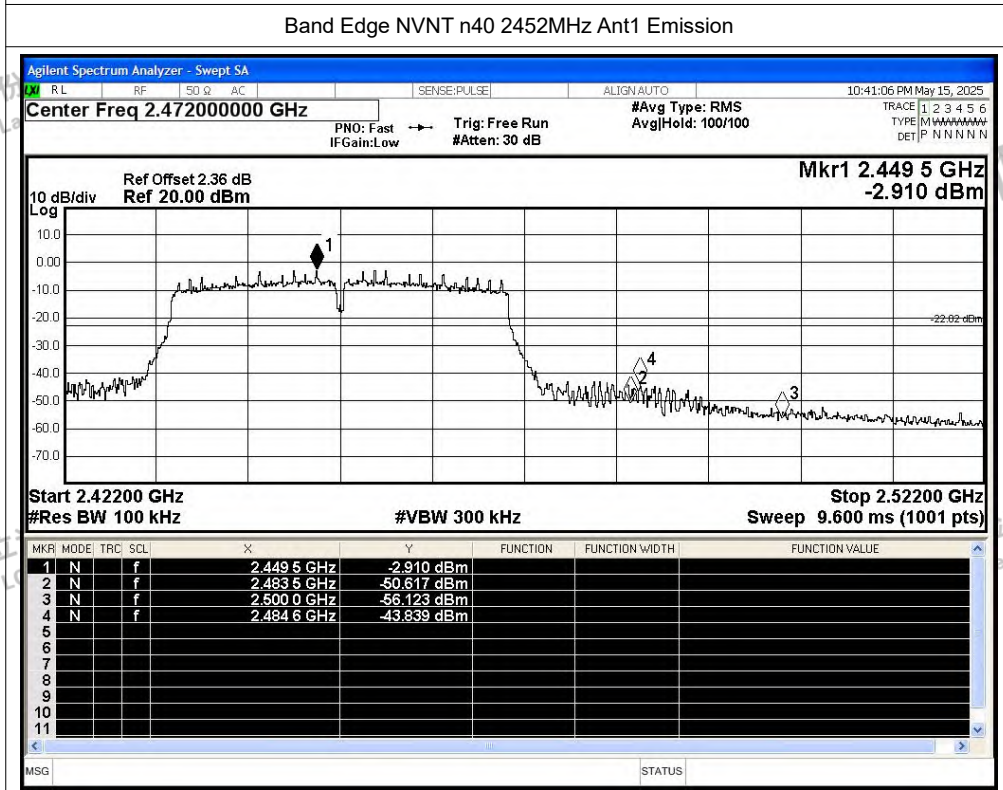
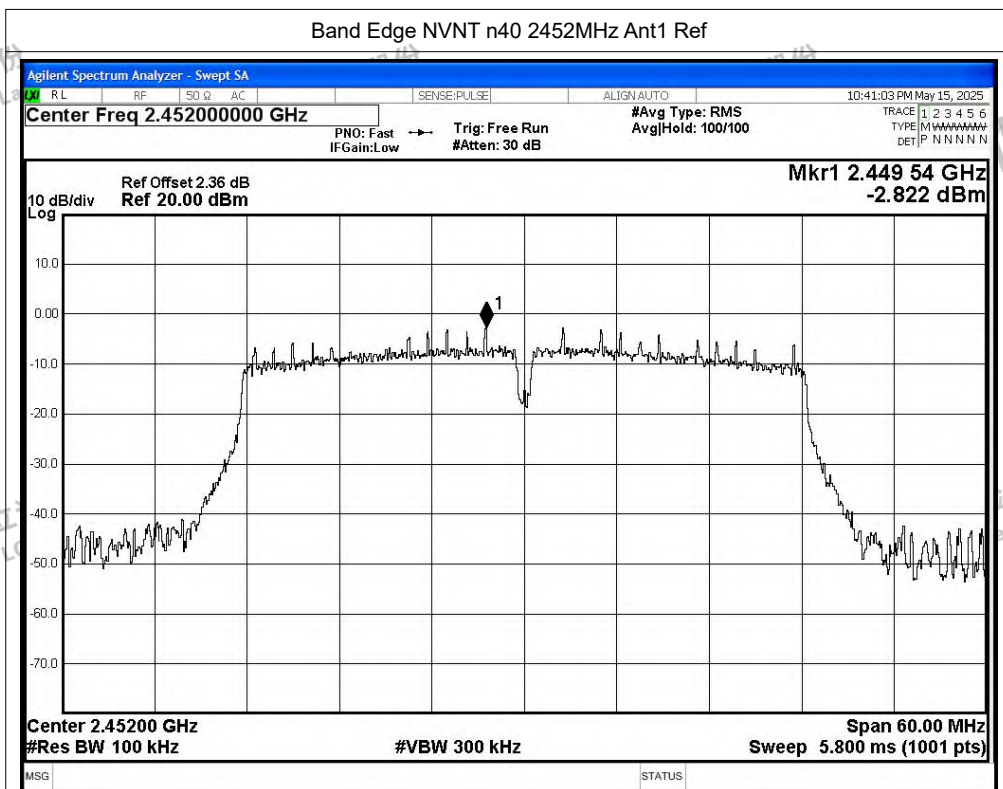


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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-44.83	-20	Pass
NVNT	b	2462	Ant2	-61.3	-20	Pass
NVNT	g	2412	Ant2	-32.21	-20	Pass
NVNT	g	2462	Ant2	-40.57	-20	Pass
NVNT	n20	2412	Ant2	-30.75	-20	Pass
NVNT	n20	2462	Ant2	-40.09	-20	Pass
NVNT	n40	2422	Ant2	-32.33	-20	Pass
NVNT	n40	2452	Ant2	-37.53	-20	Pass



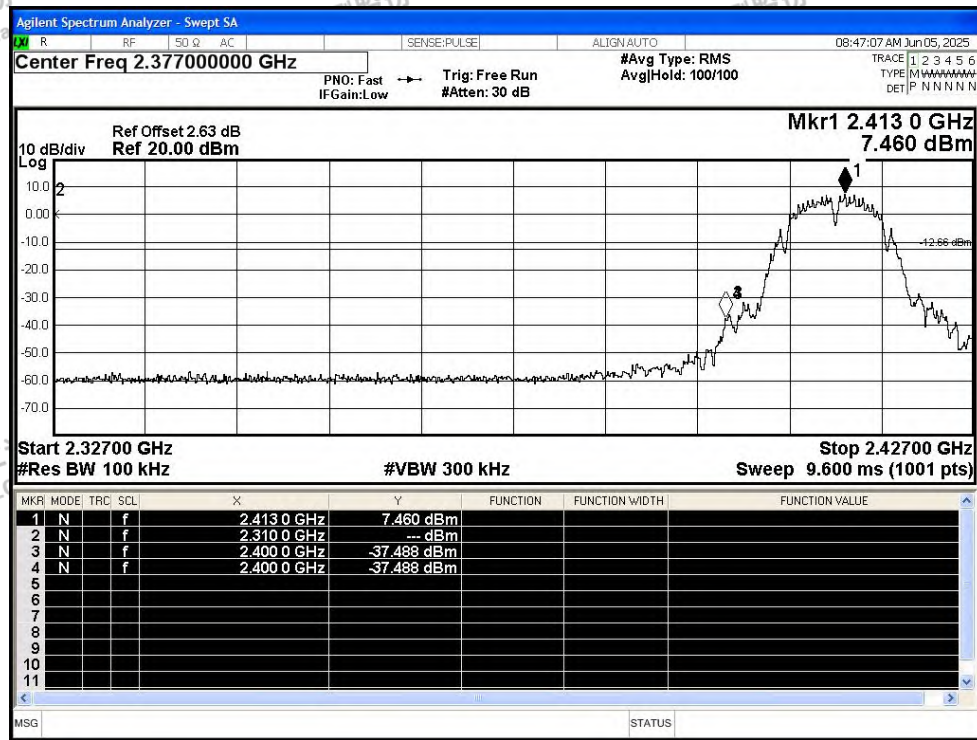


Test Graphs

Band Edge NVNT b 2412MHz Ant2 Ref



Band Edge NVNT b 2412MHz Ant2 Emission

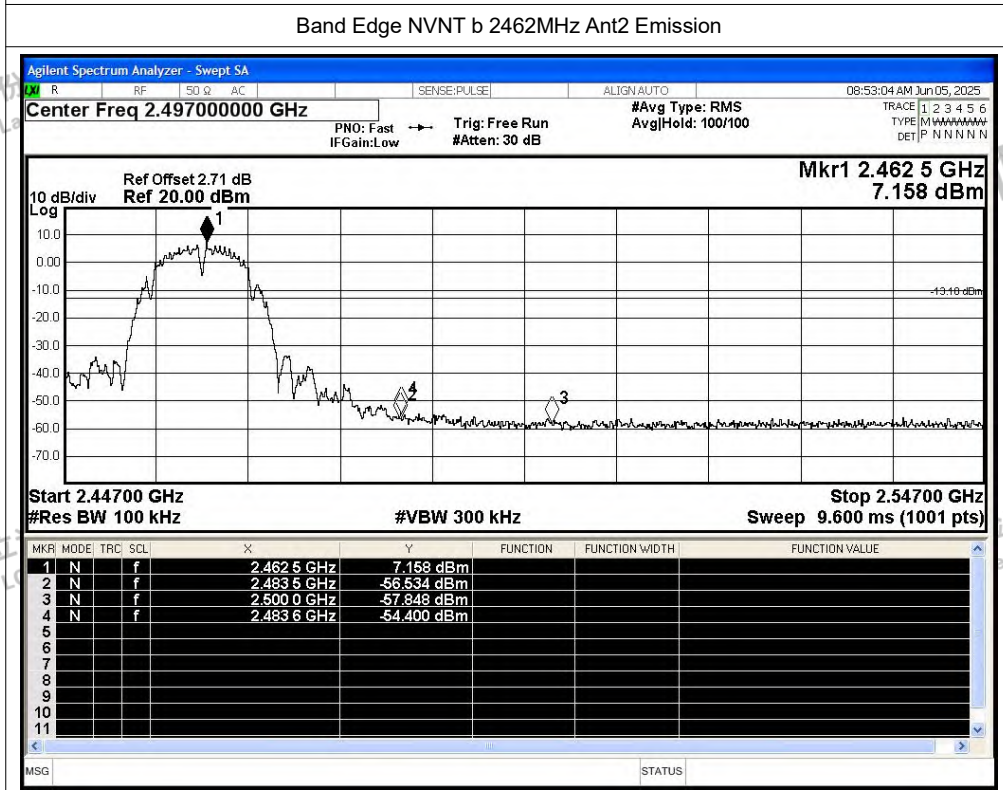
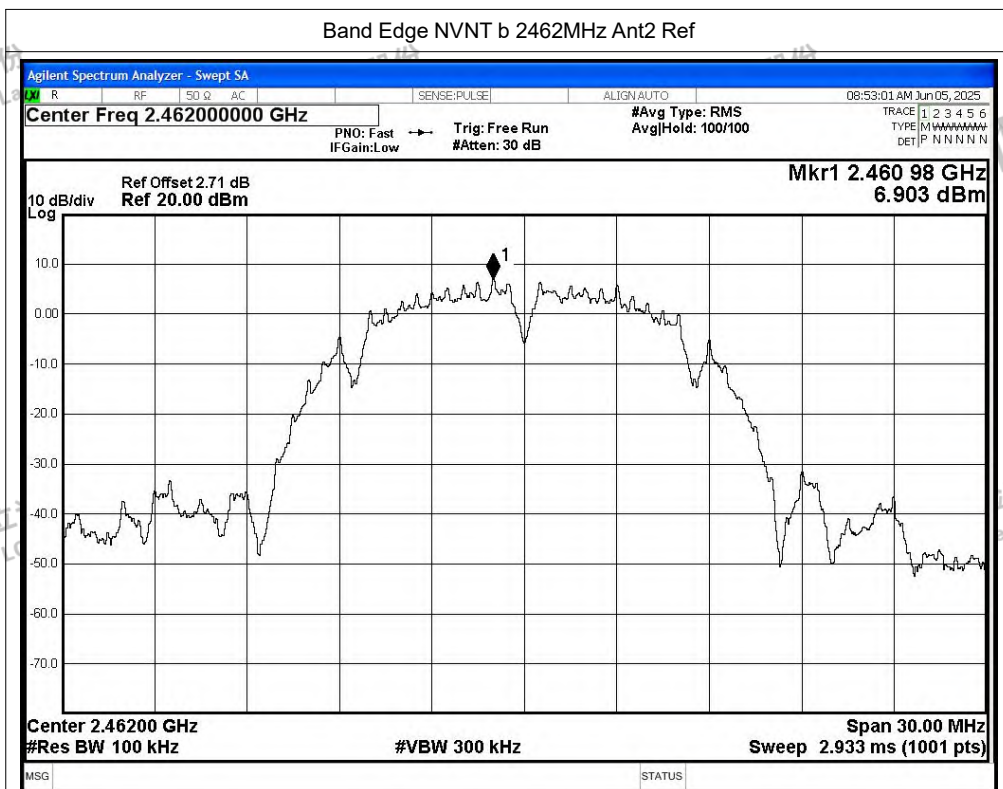


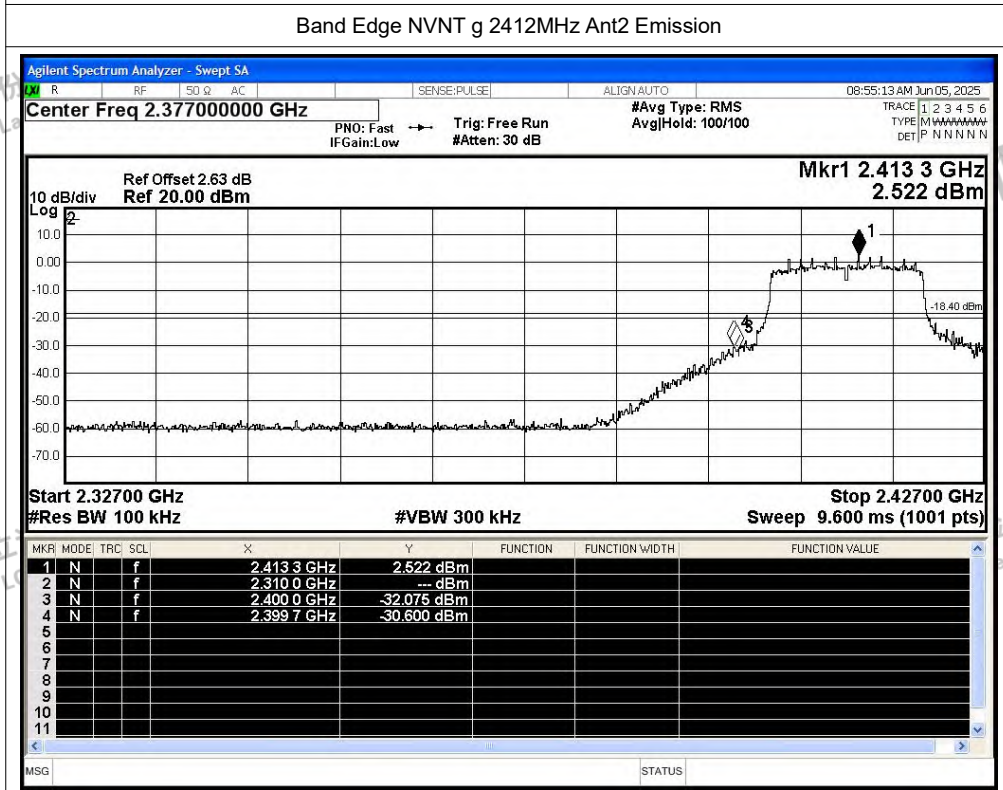
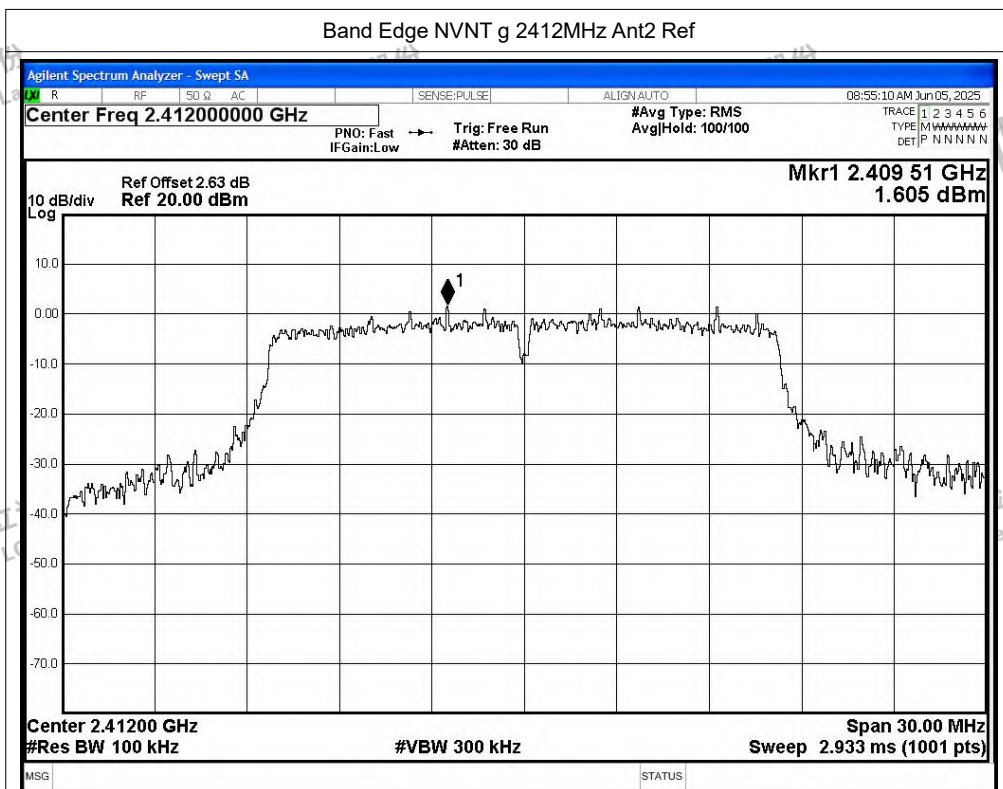
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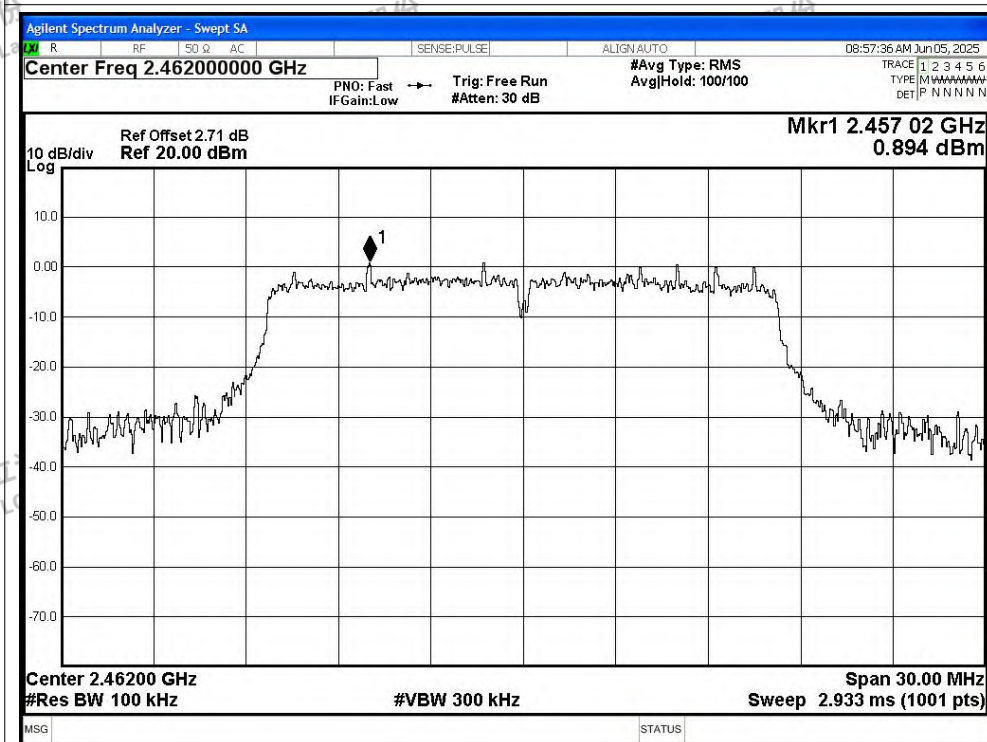
Scan code to check authenticity



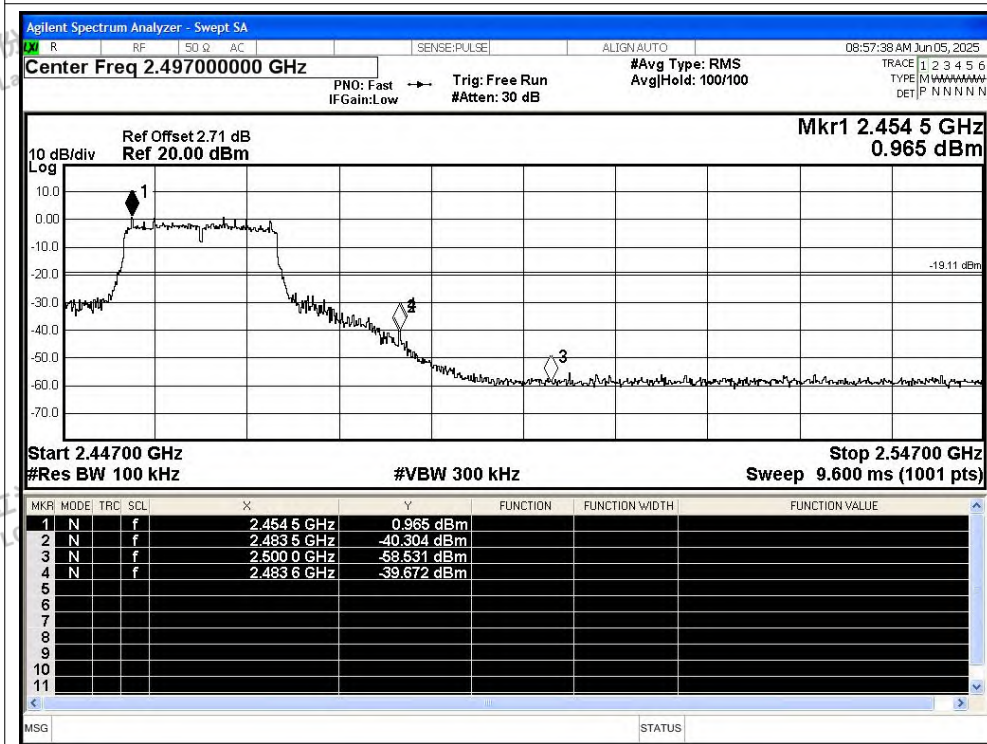




Band Edge NVNT g 2462MHz Ant2 Ref



Band Edge NVNT g 2462MHz Ant2 Emission

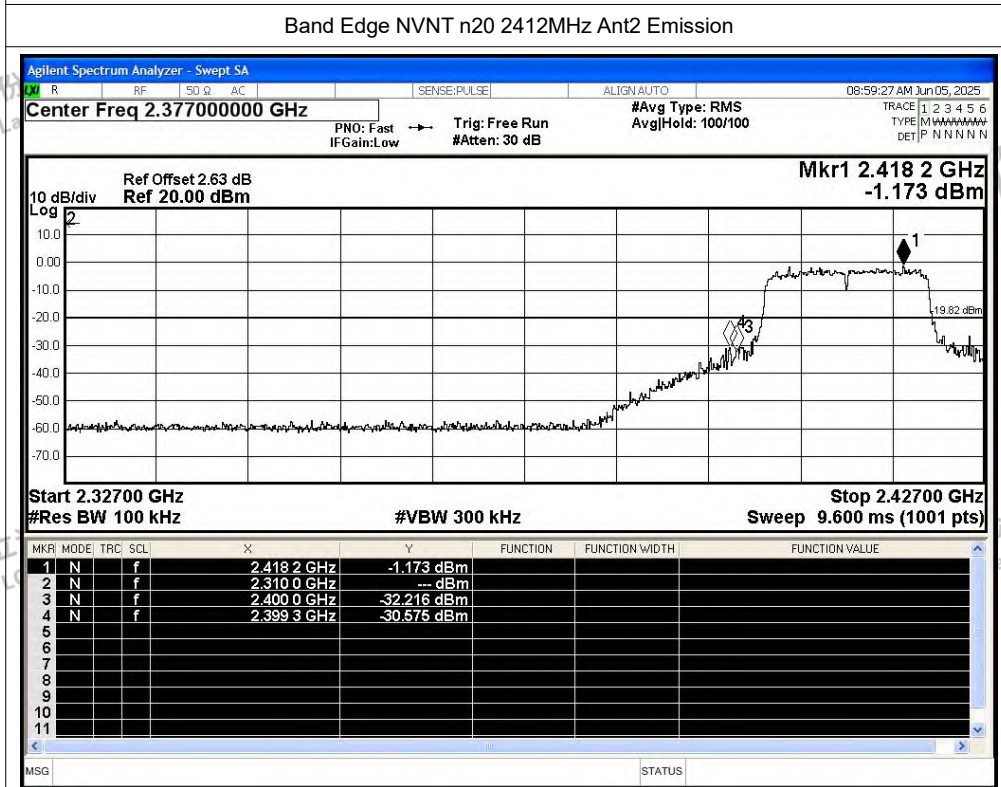
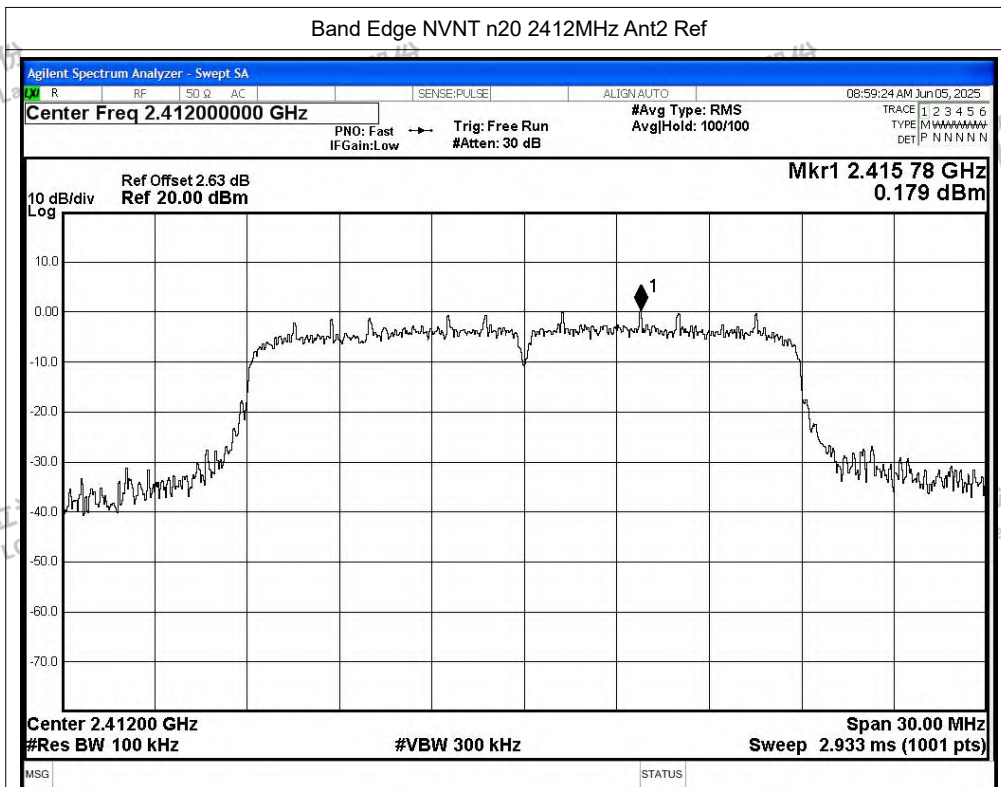


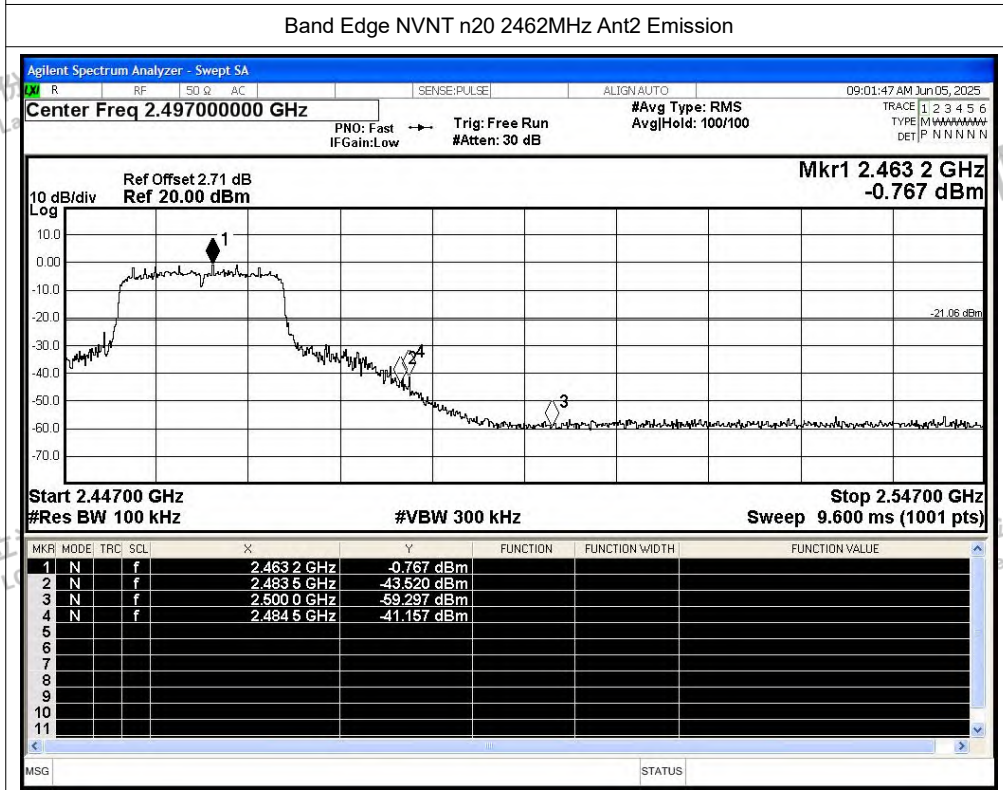
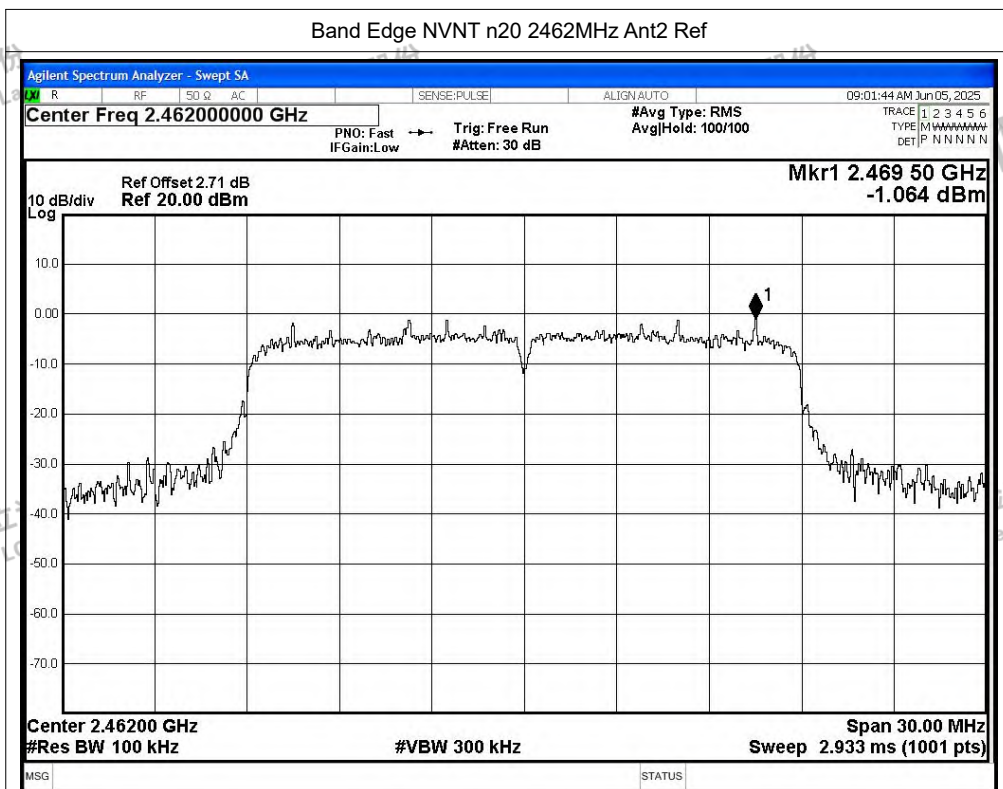
Shenzhen LCS Compliance Testing Laboratory Ltd.

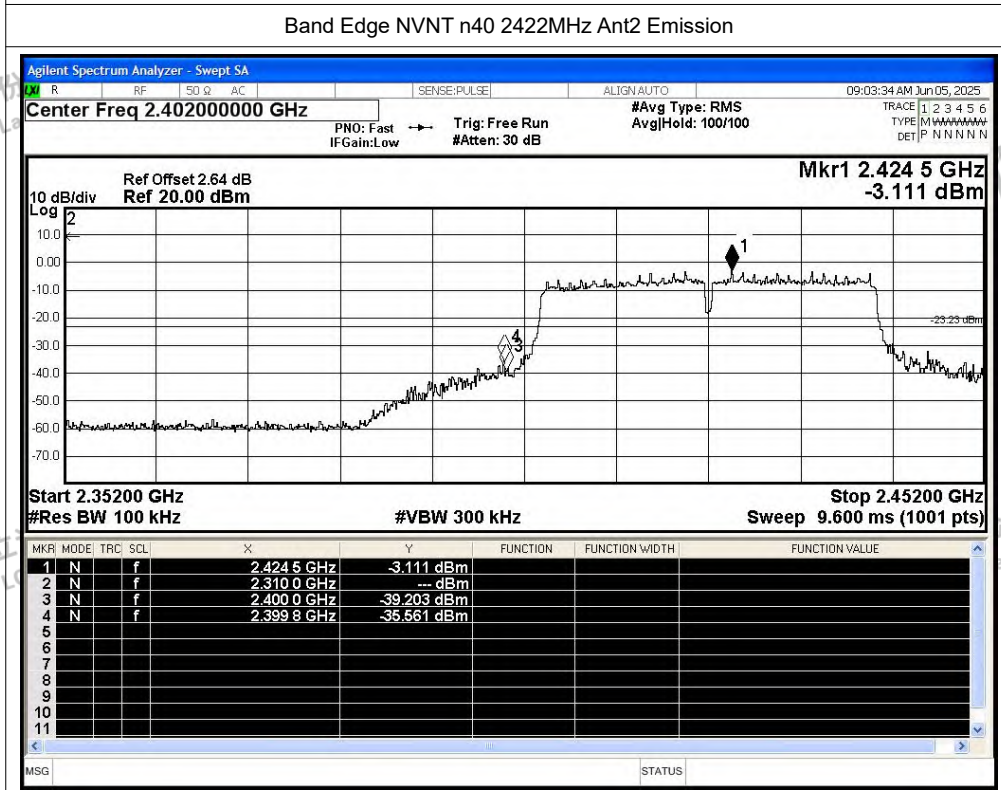
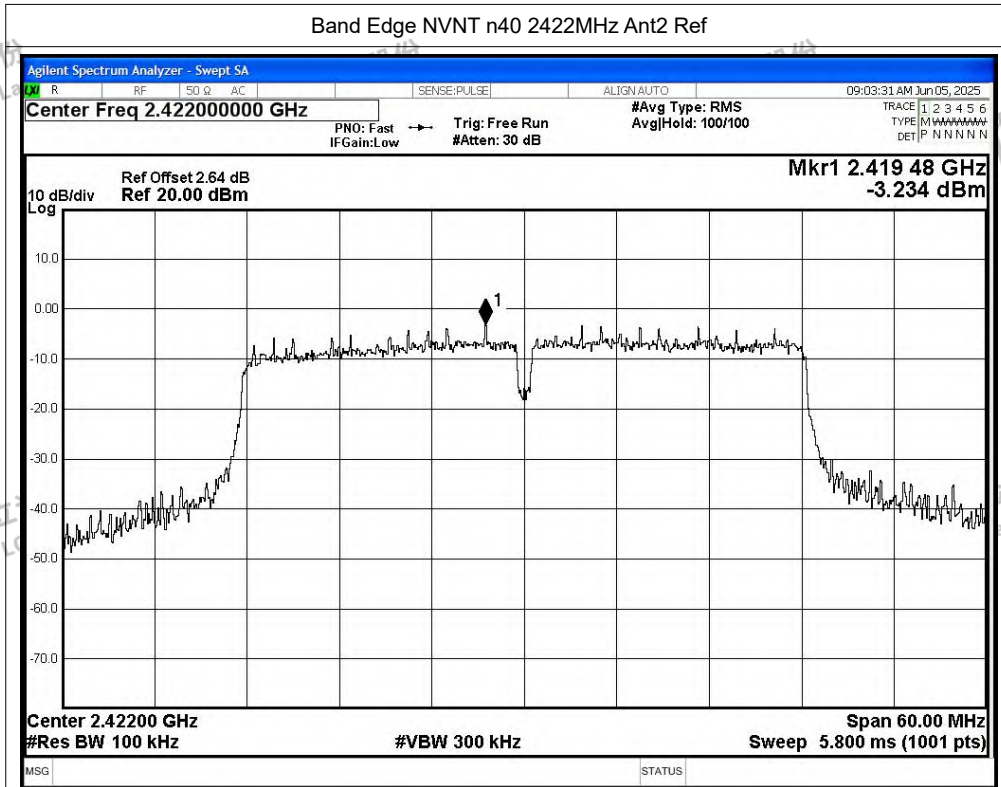
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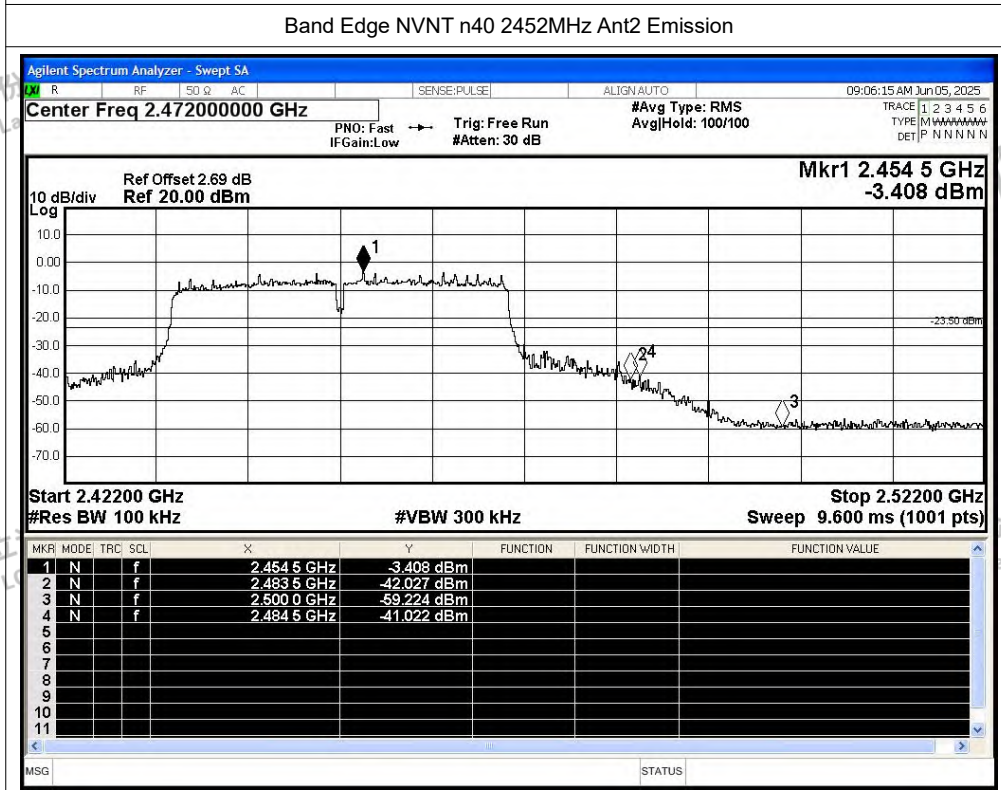
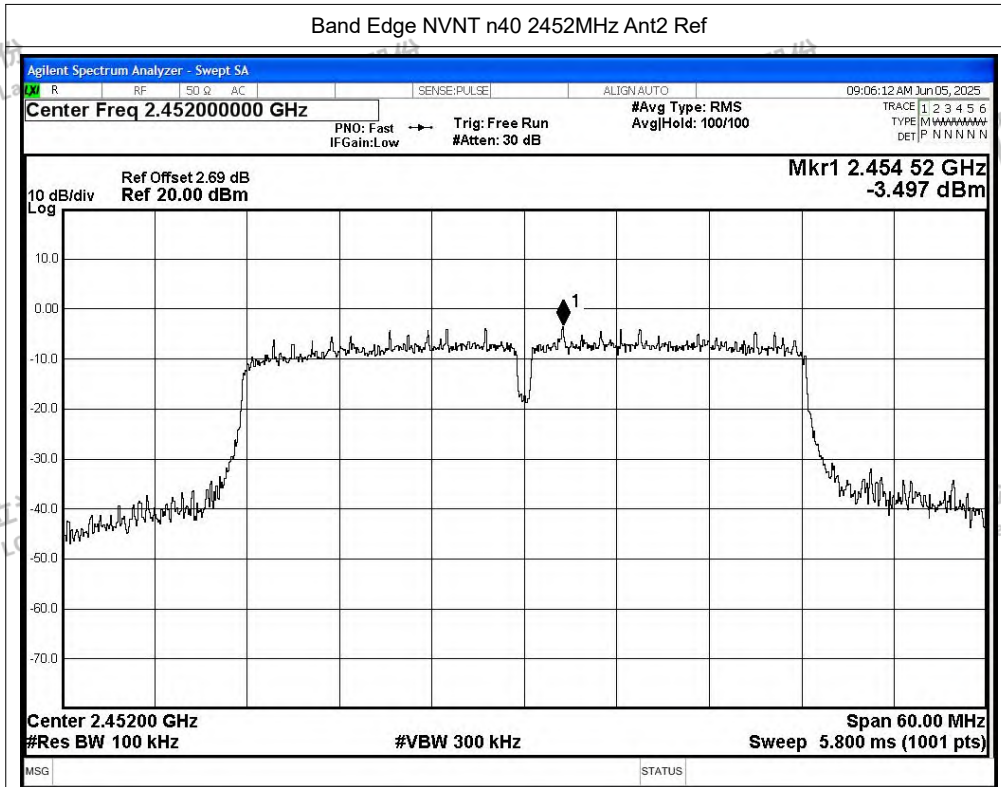
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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.32	-20	Pass
NVNT	b	2437	Ant1	-51.19	-20	Pass
NVNT	b	2462	Ant1	-51.26	-20	Pass
NVNT	g	2412	Ant1	-48.15	-20	Pass
NVNT	g	2437	Ant1	-47.06	-20	Pass
NVNT	g	2462	Ant1	-48.86	-20	Pass
NVNT	n20	2412	Ant1	-46.27	-20	Pass
NVNT	n20	2437	Ant1	-46.95	-20	Pass
NVNT	n20	2462	Ant1	-46.76	-20	Pass
NVNT	n40	2422	Ant1	-43.19	-20	Pass
NVNT	n40	2437	Ant1	-42.77	-20	Pass
NVNT	n40	2452	Ant1	-42.7	-20	Pass

