

Appendix B

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Smart Pet Feeder

Test Model: ACF800D

Environmental Conditions

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



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.57	≥ 0.5	Pass
NVNT	b	2437	Ant1	7.55	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.065	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.301	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.338	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.318	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.583	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.65	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.567	≥ 0.5	Pass
NVNT	n40	2422	Ant1	34.071	≥ 0.5	Pass
NVNT	n40	2437	Ant1	31.538	≥ 0.5	Pass
NVNT	n40	2452	Ant1	33.82	≥ 0.5	Pass



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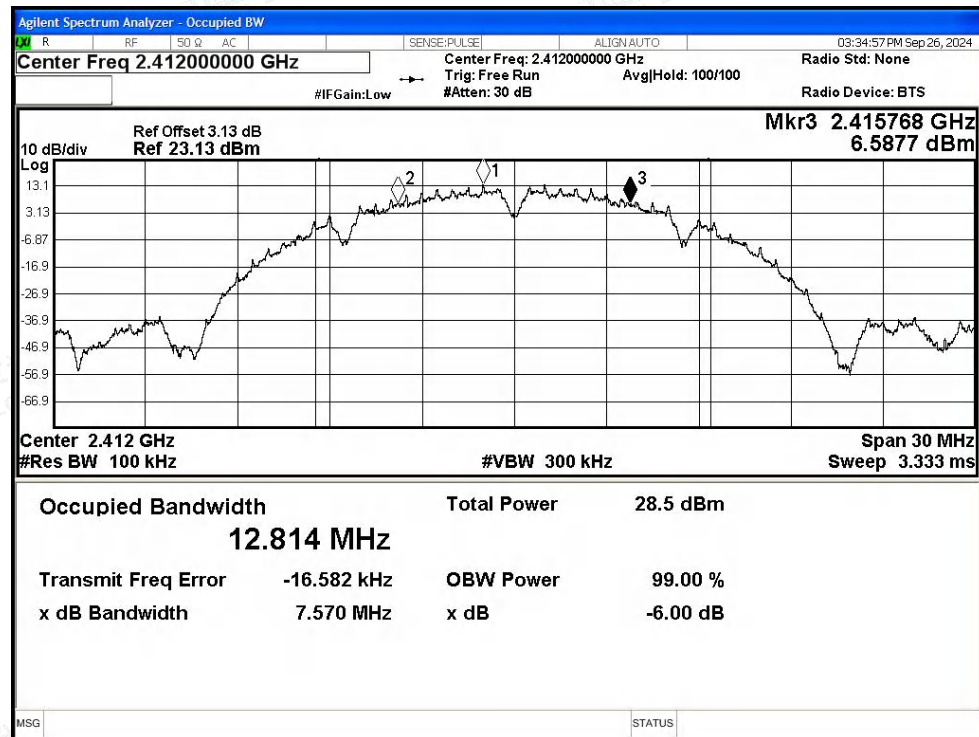
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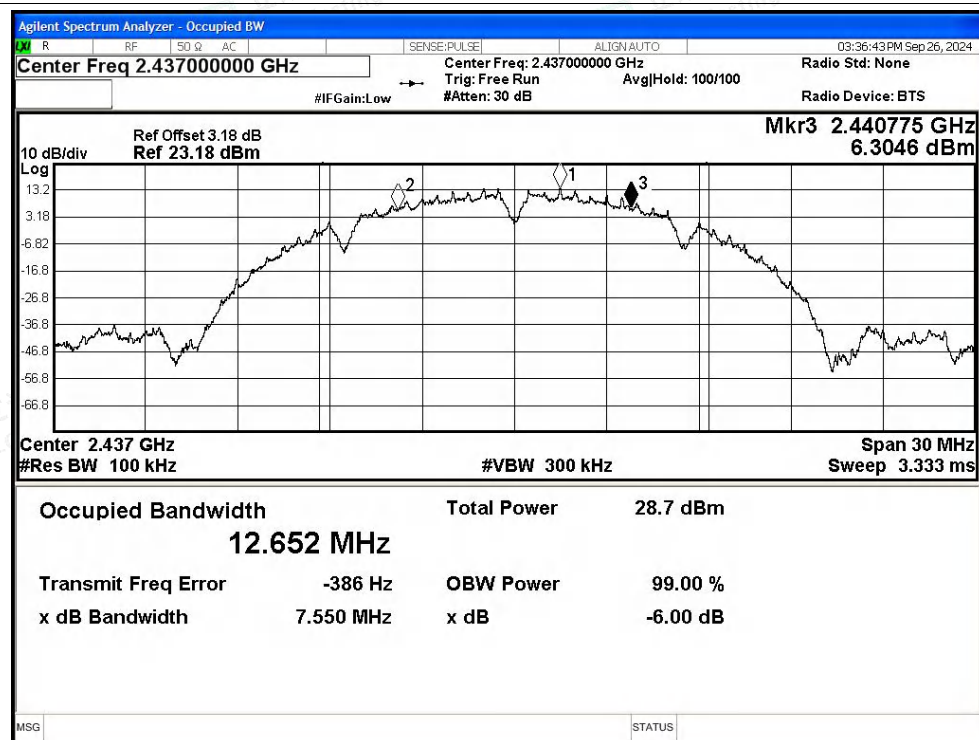


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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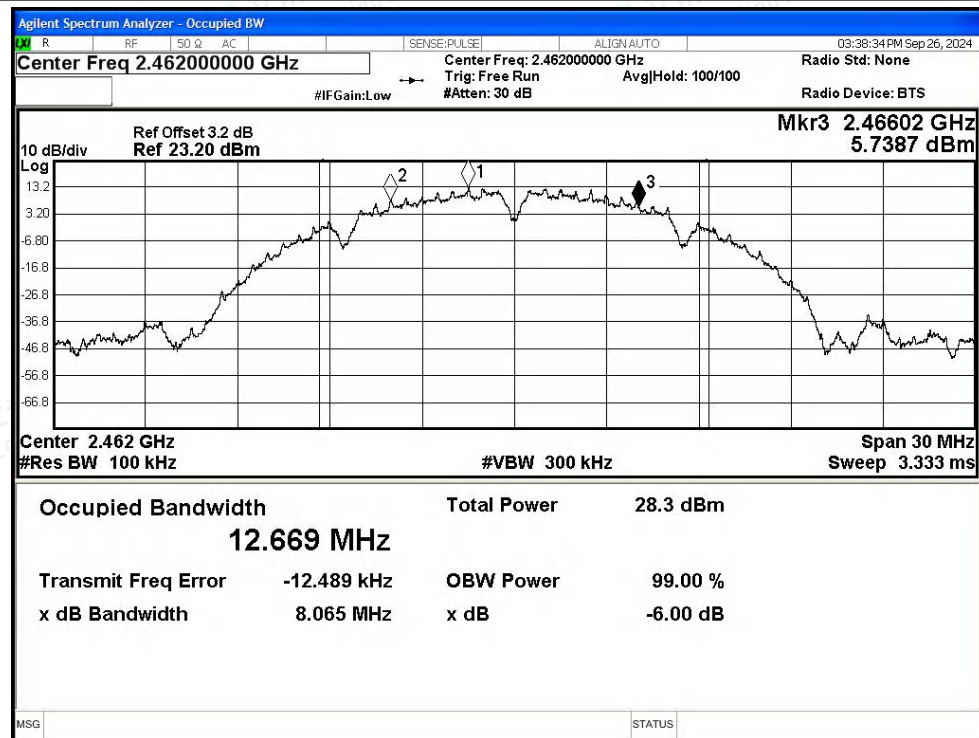
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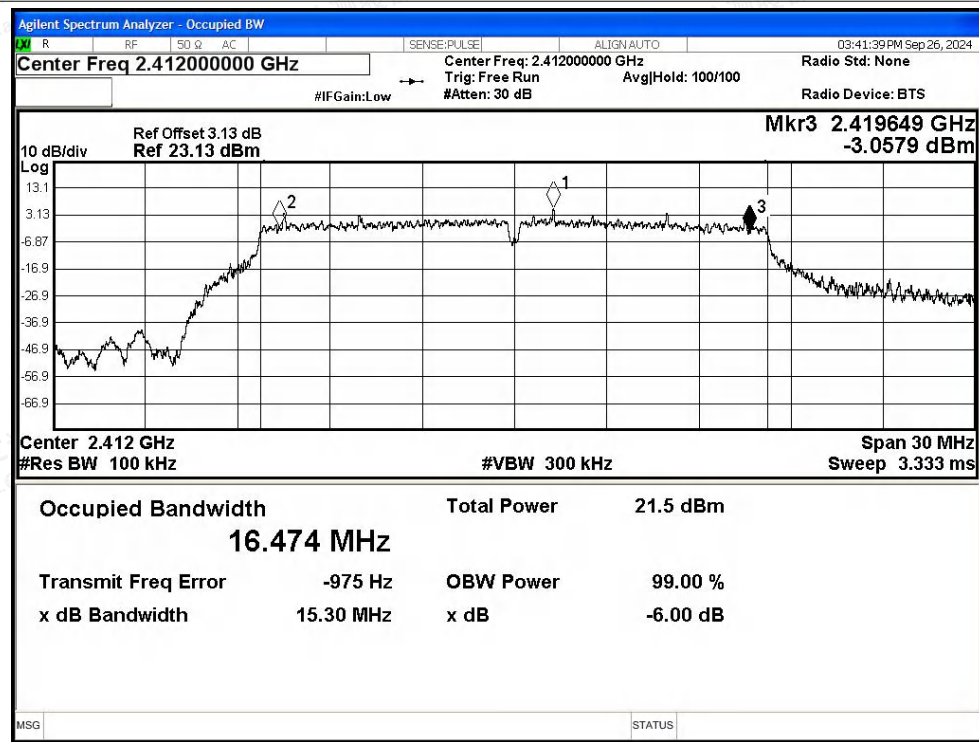
Scan code to check authenticity



-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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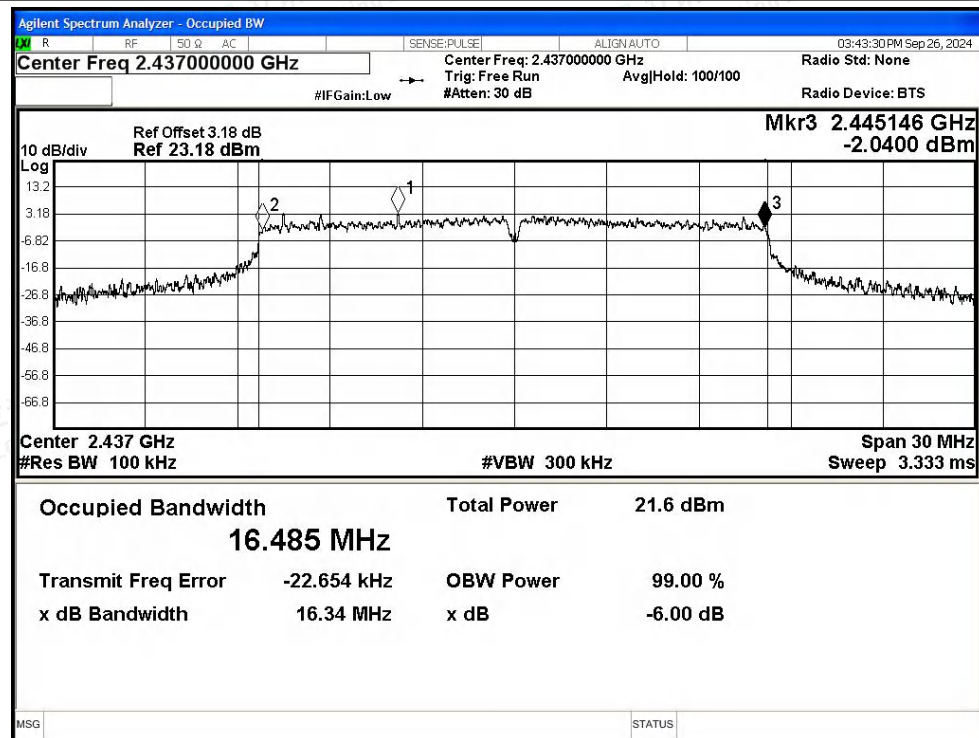
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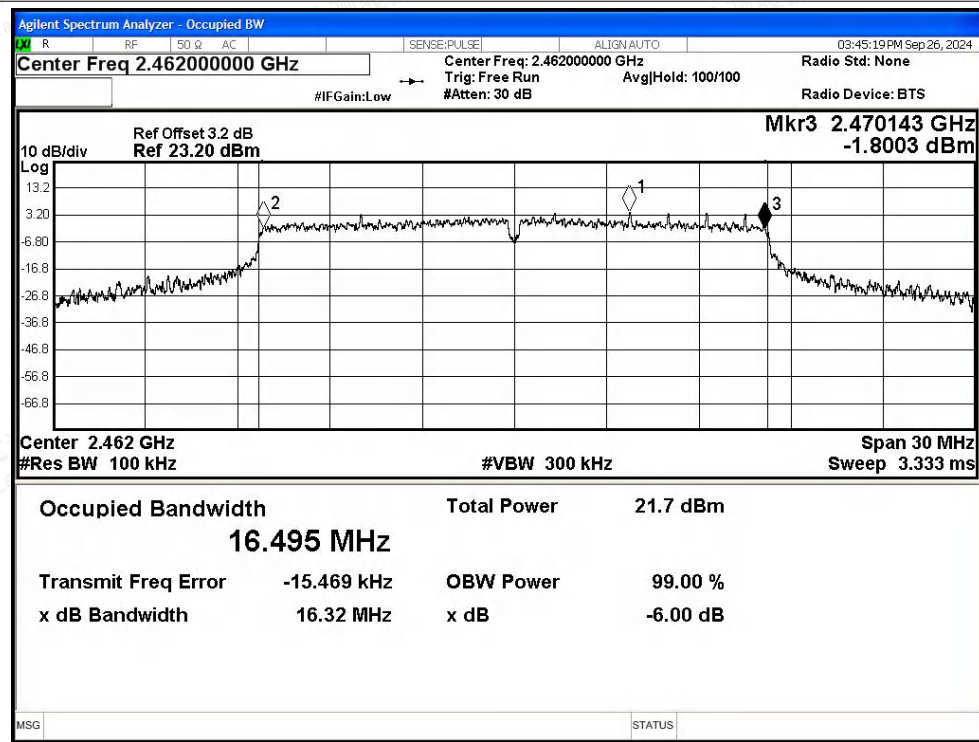
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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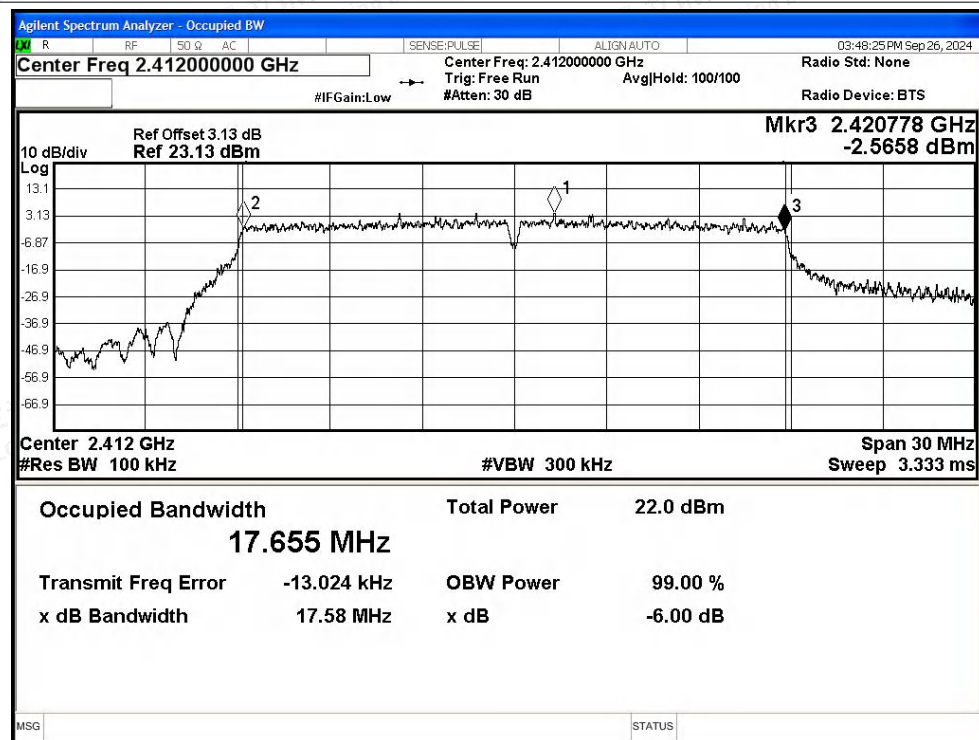
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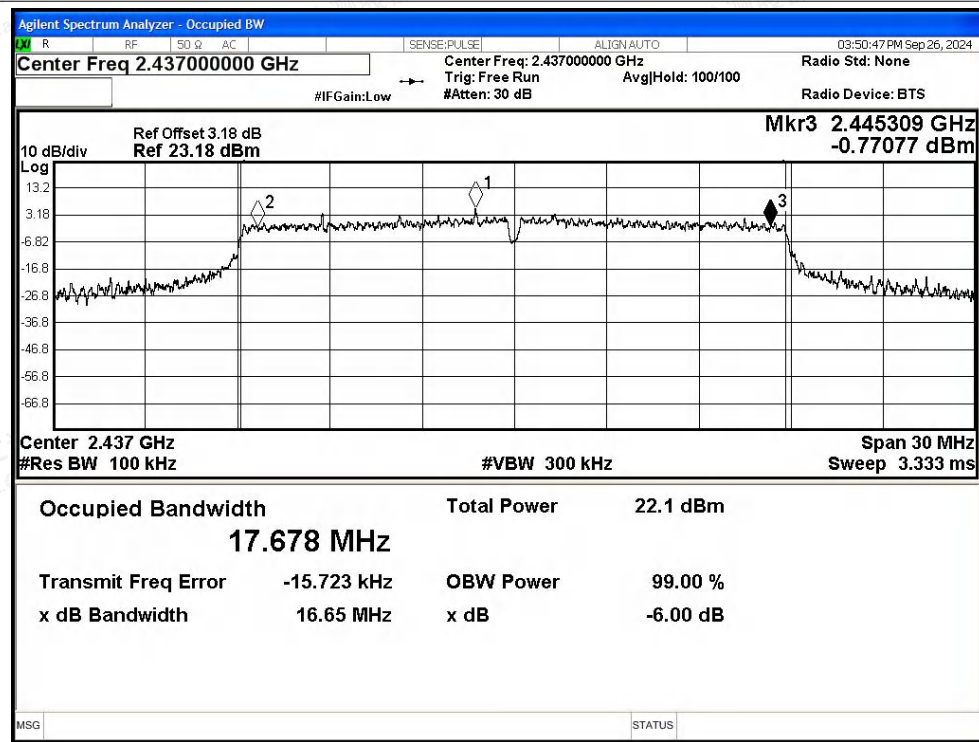
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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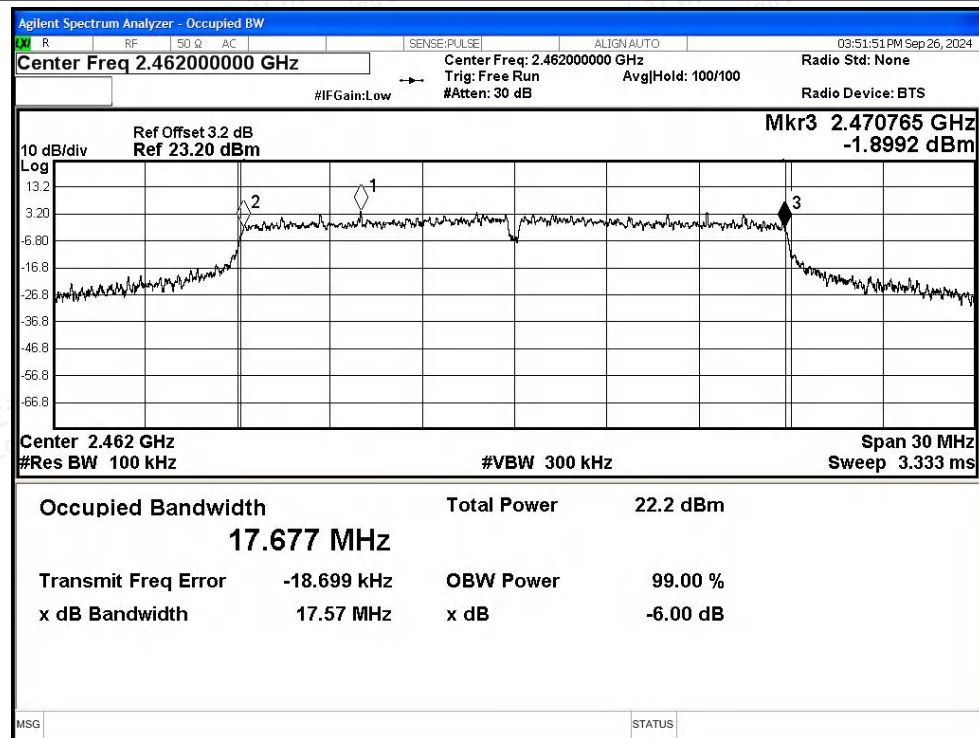
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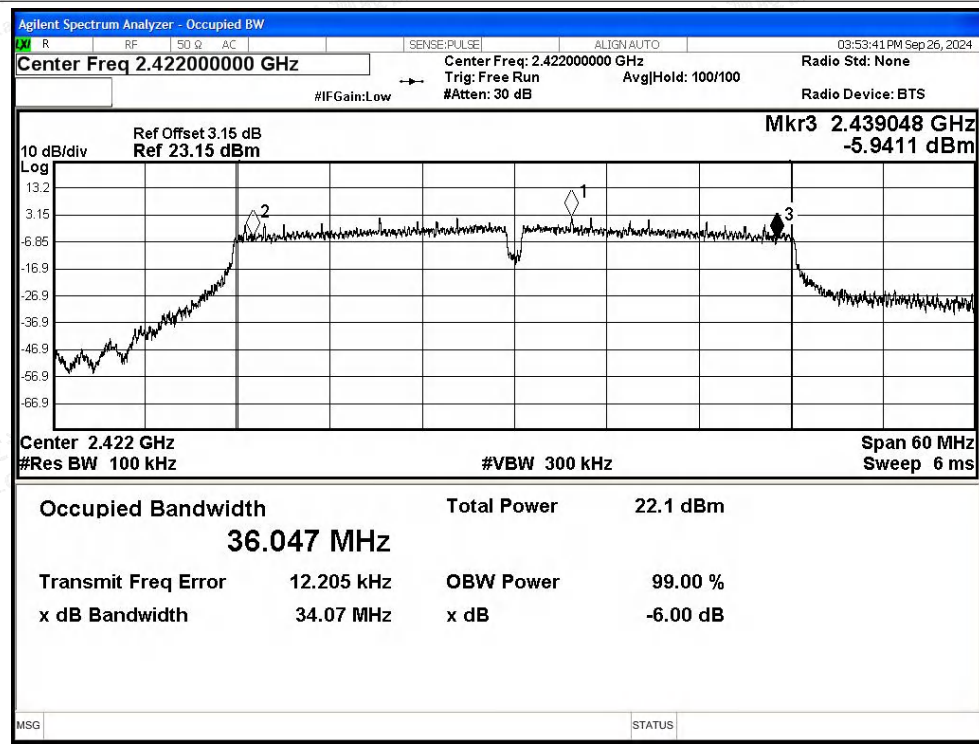
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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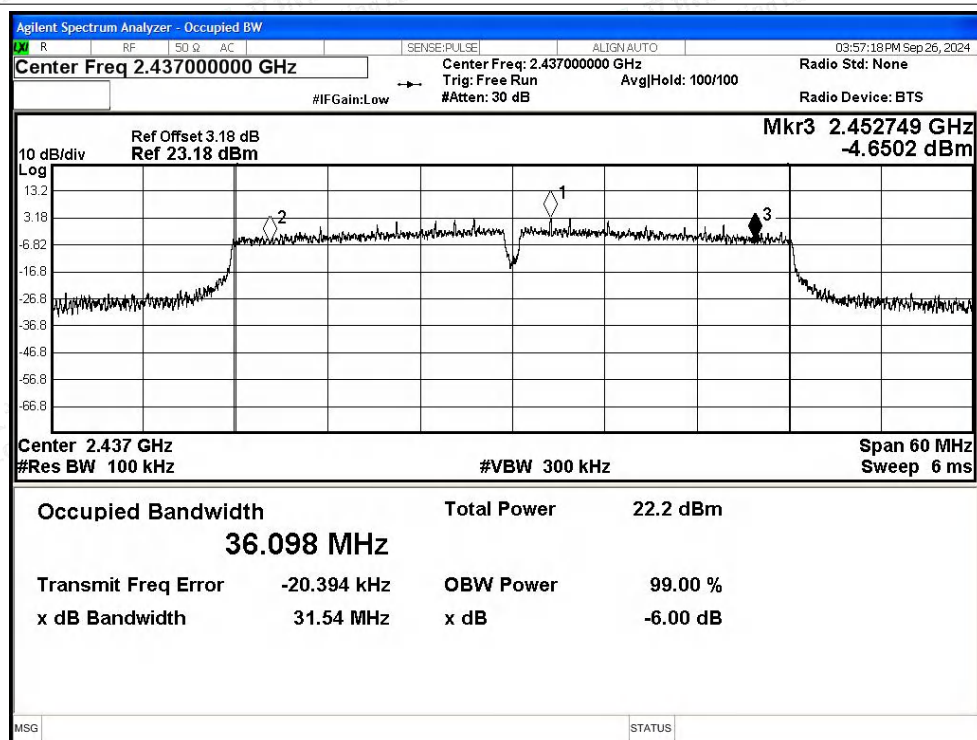
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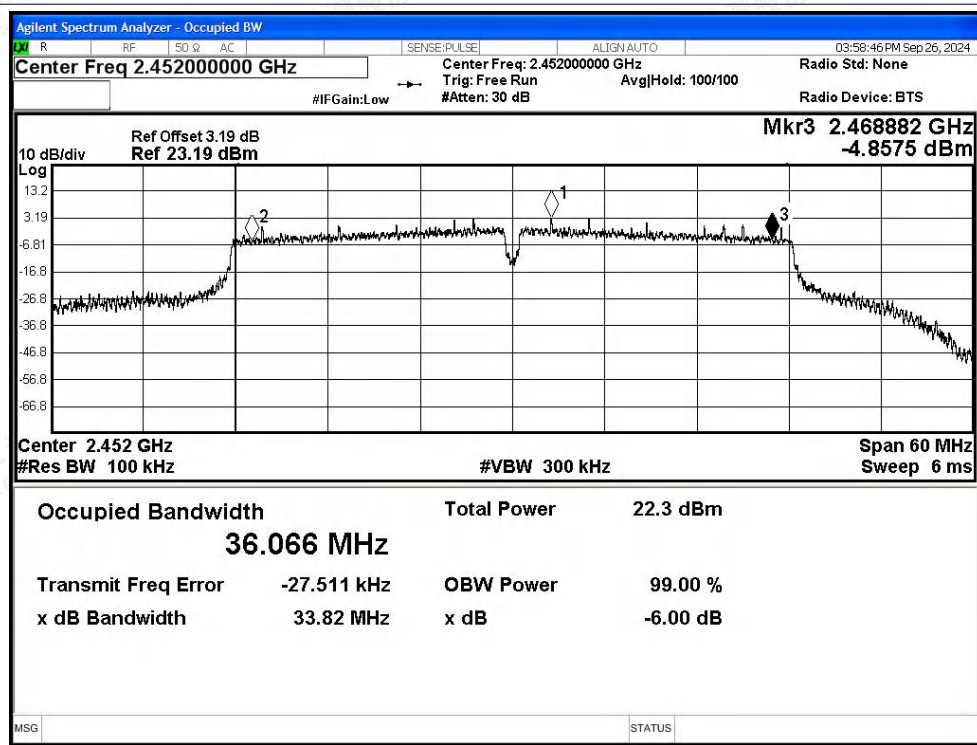
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	23.51	30	Pass
NVNT	b	2437	Ant1	23.72	30	Pass
NVNT	b	2462	Ant1	23.34	30	Pass
NVNT	g	2412	Ant1	20.16	30	Pass
NVNT	g	2437	Ant1	20.31	30	Pass
NVNT	g	2462	Ant1	20.34	30	Pass
NVNT	n20	2412	Ant1	20.62	30	Pass
NVNT	n20	2437	Ant1	20.80	30	Pass
NVNT	n20	2462	Ant1	20.82	30	Pass
NVNT	n40	2422	Ant1	20.60	30	Pass
NVNT	n40	2437	Ant1	20.71	30	Pass
NVNT	n40	2452	Ant1	20.79	30	Pass



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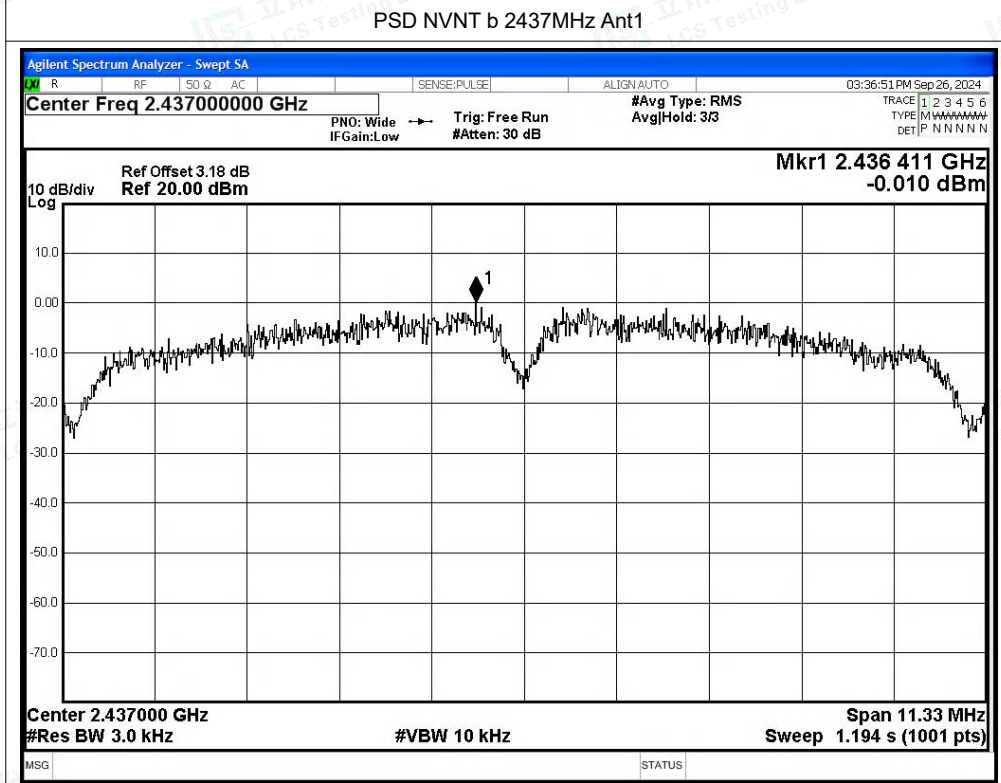
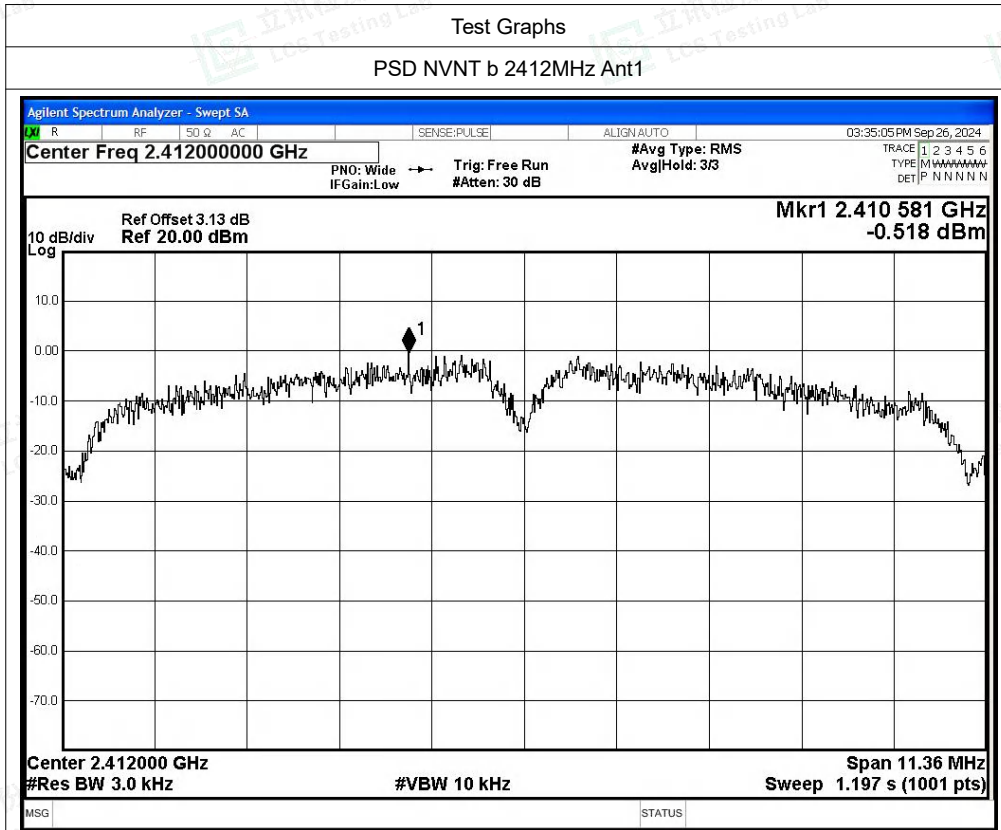
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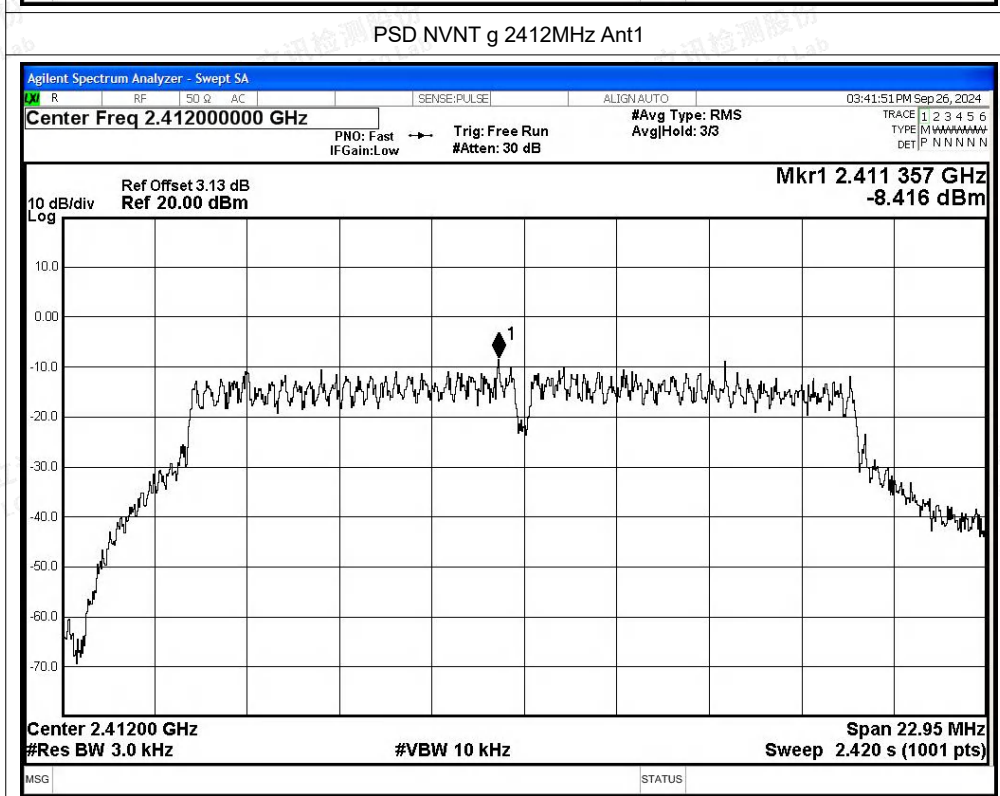
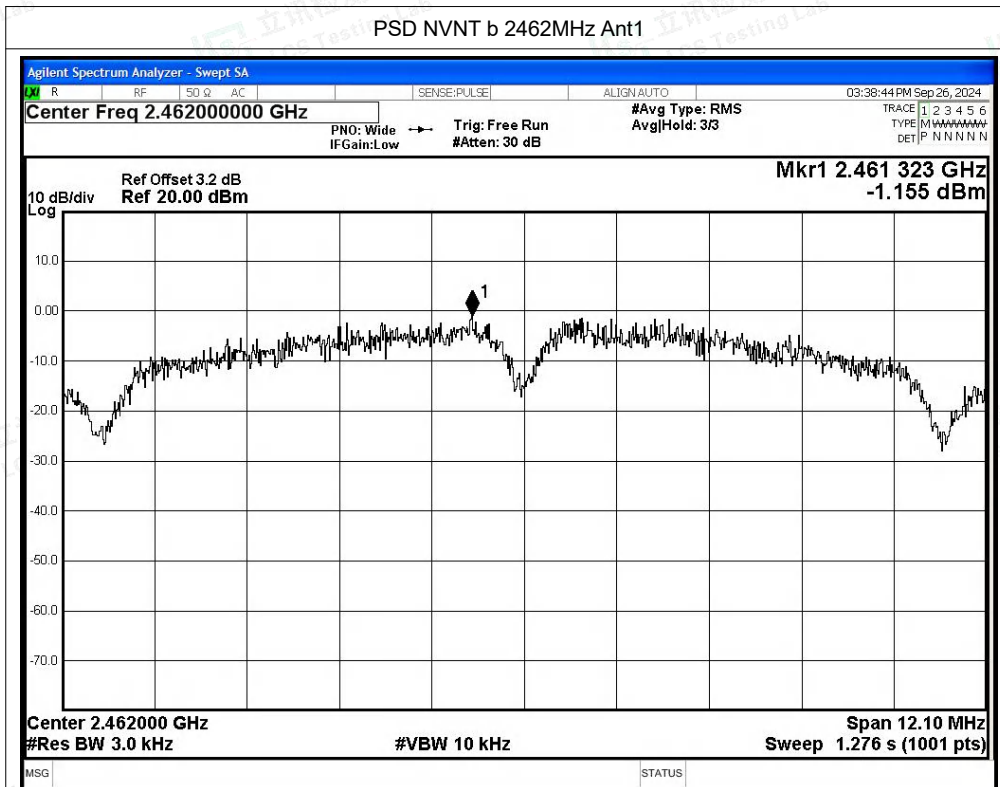
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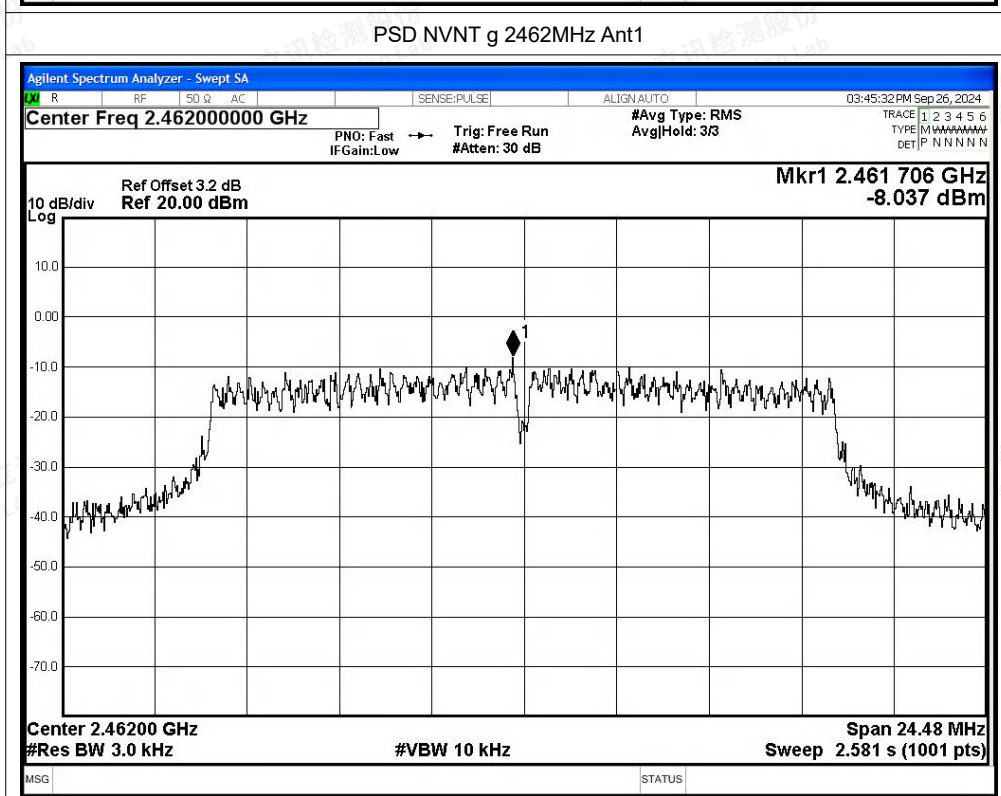
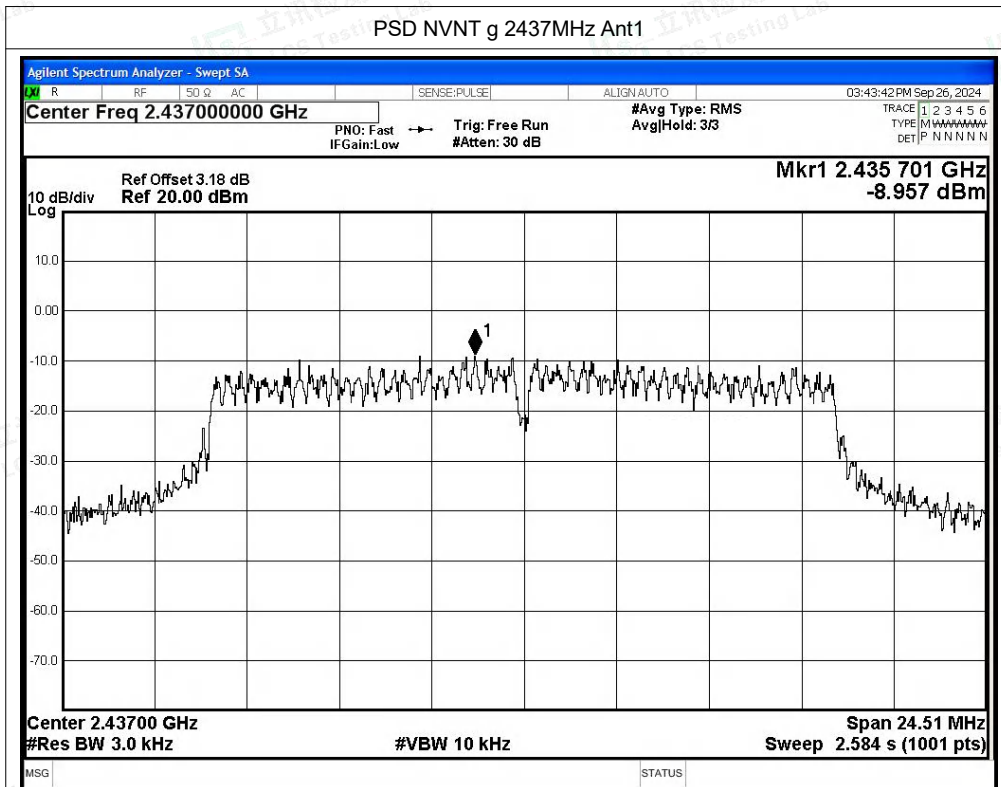
B.3 Maximum Power Spectral Density Level

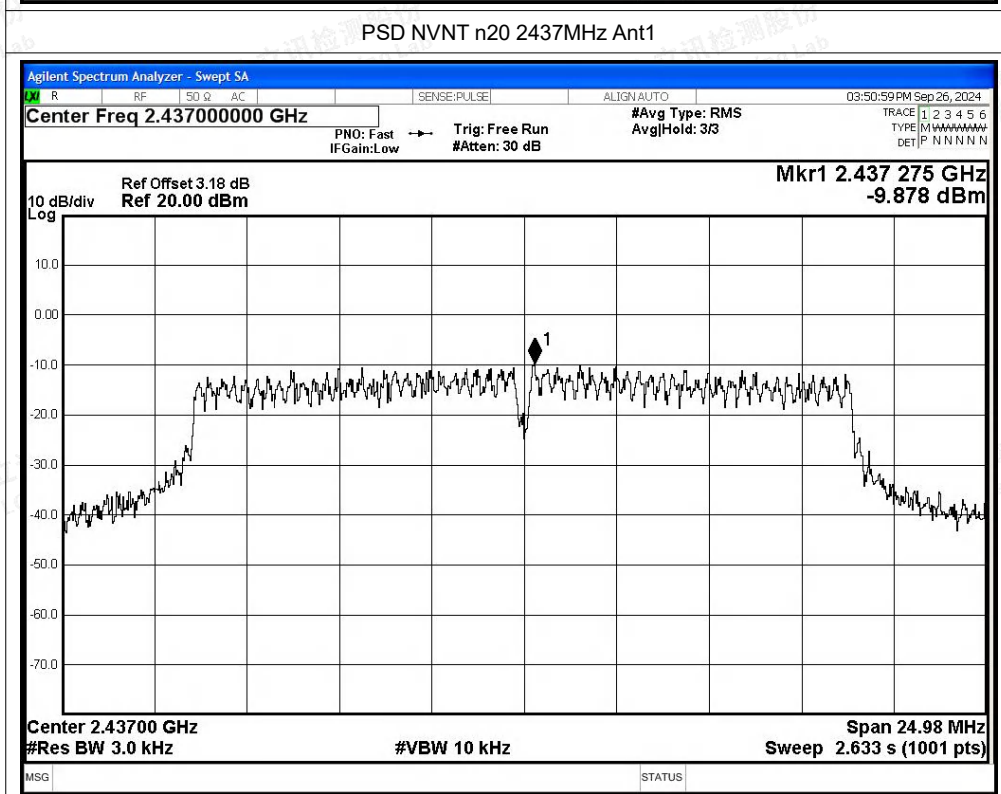
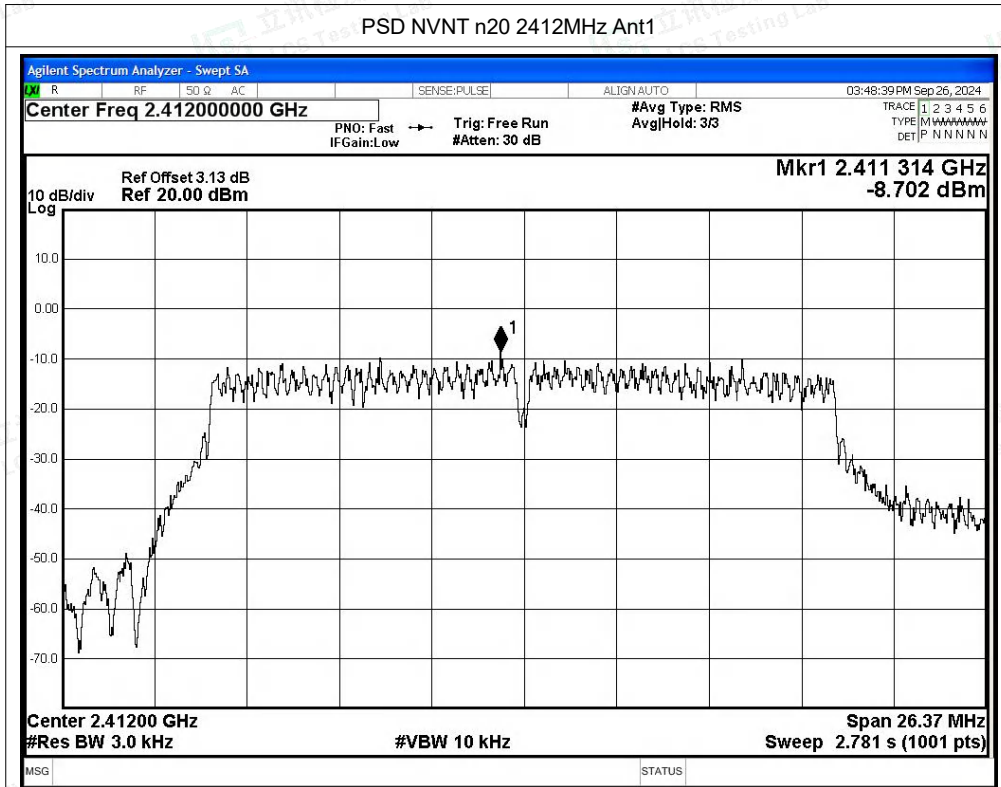
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-0.52	8	Pass
NVNT	b	2437	Ant1	-0.01	8	Pass
NVNT	b	2462	Ant1	-1.16	8	Pass
NVNT	g	2412	Ant1	-8.42	8	Pass
NVNT	g	2437	Ant1	-8.96	8	Pass
NVNT	g	2462	Ant1	-8.04	8	Pass
NVNT	n20	2412	Ant1	-8.7	8	Pass
NVNT	n20	2437	Ant1	-9.88	8	Pass
NVNT	n20	2462	Ant1	-8.97	8	Pass
NVNT	n40	2422	Ant1	-11.9	8	Pass
NVNT	n40	2437	Ant1	-11.72	8	Pass
NVNT	n40	2452	Ant1	-9.94	8	Pass

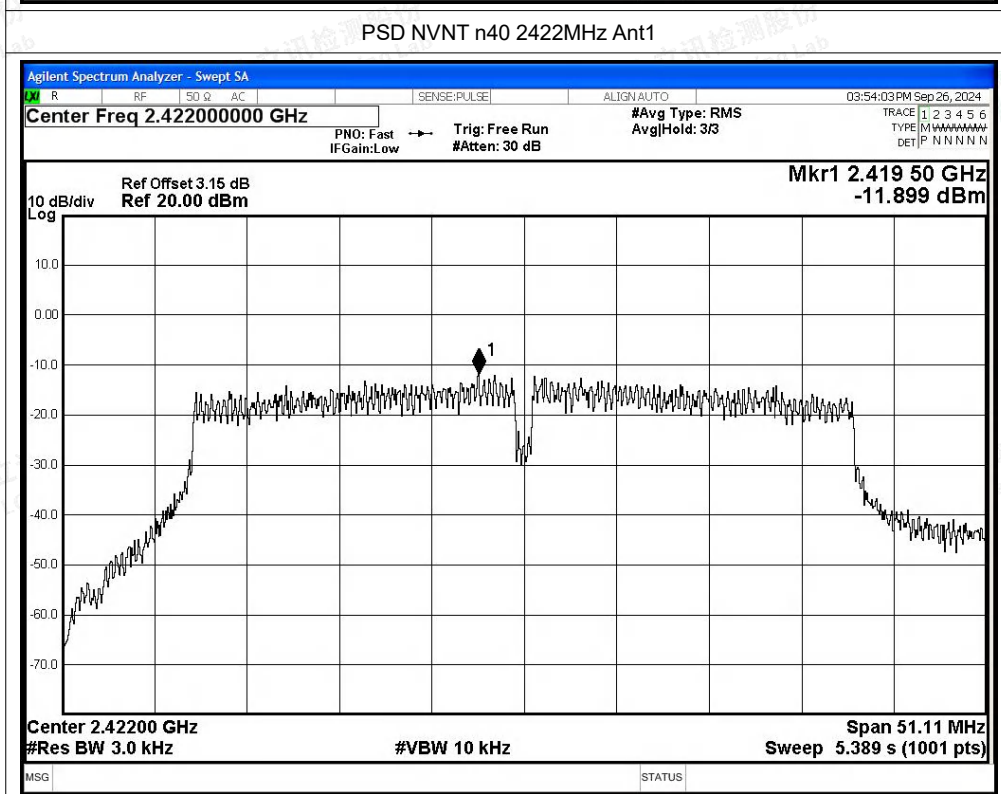
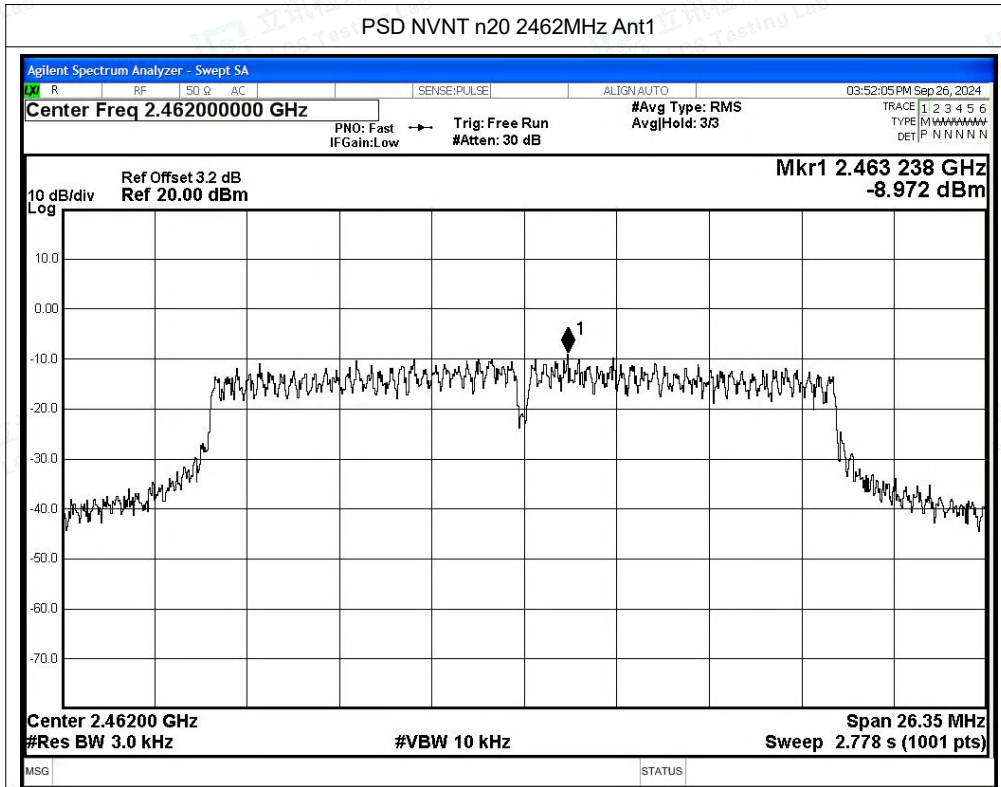


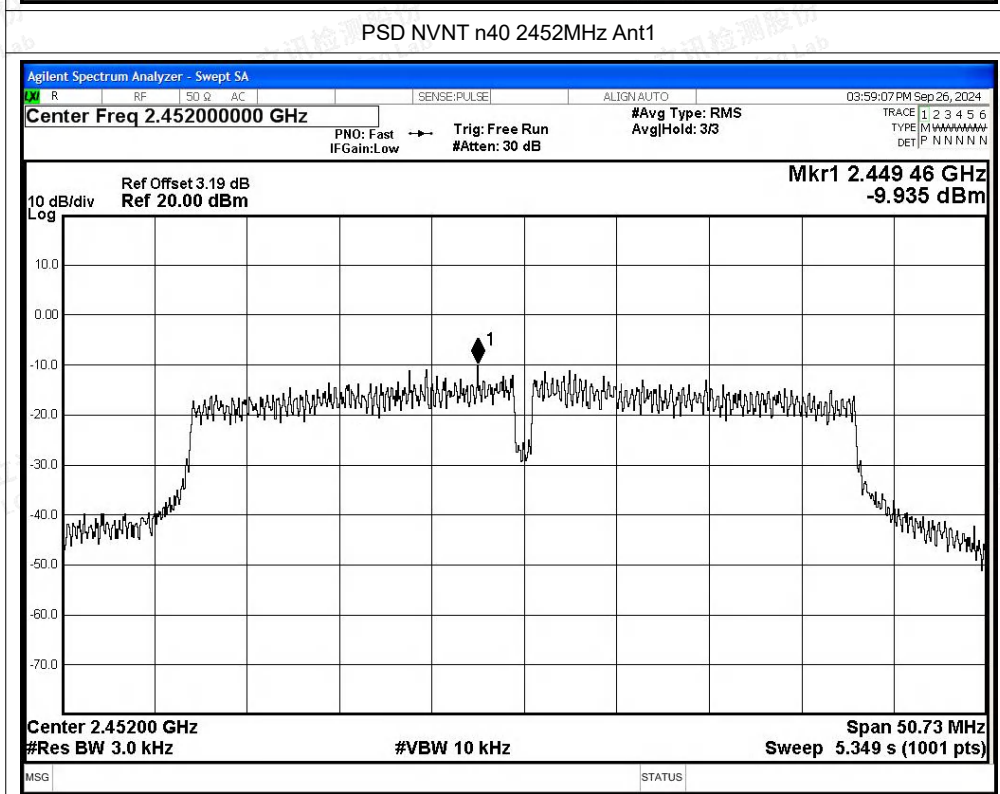
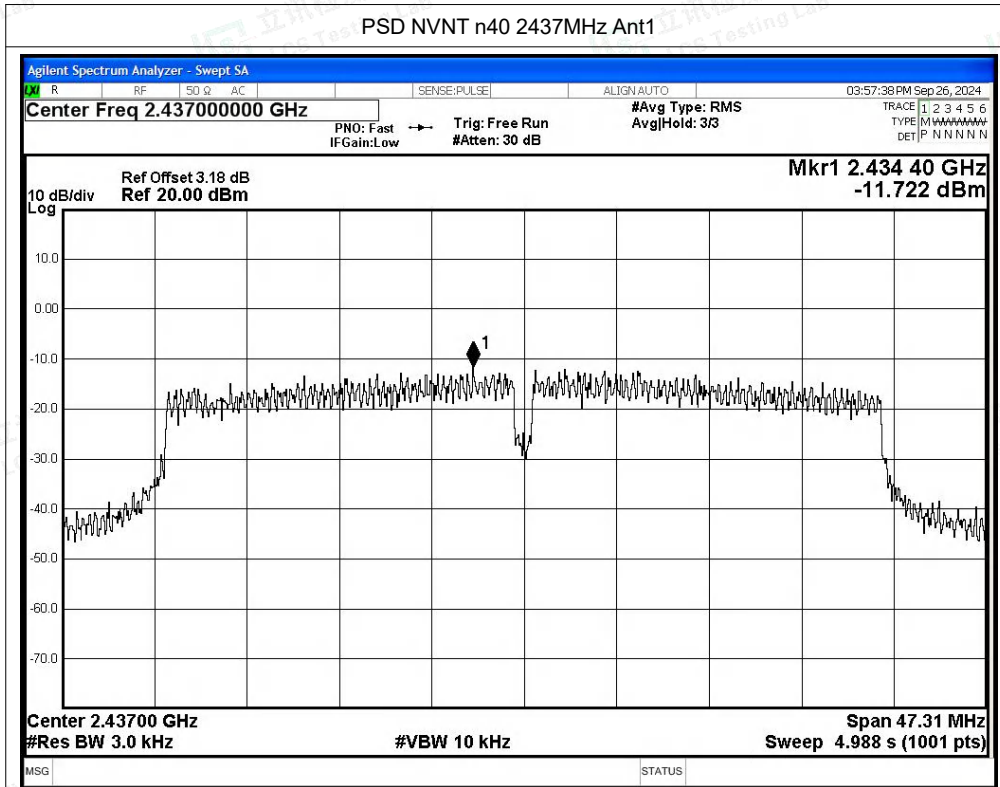












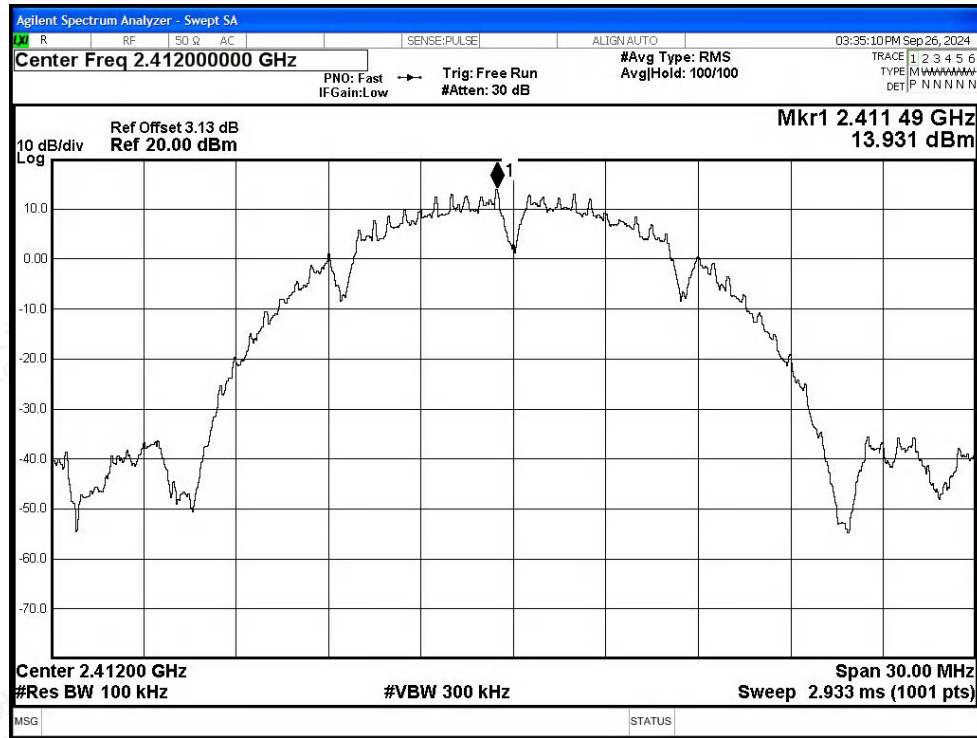
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.89	-20	Pass
NVNT	b	2462	Ant1	-62.17	-20	Pass
NVNT	g	2412	Ant1	-43.28	-20	Pass
NVNT	g	2462	Ant1	-56.34	-20	Pass
NVNT	n20	2412	Ant1	-44.55	-20	Pass
NVNT	n20	2462	Ant1	-56.17	-20	Pass
NVNT	n40	2422	Ant1	-35.88	-20	Pass
NVNT	n40	2452	Ant1	-50.53	-20	Pass

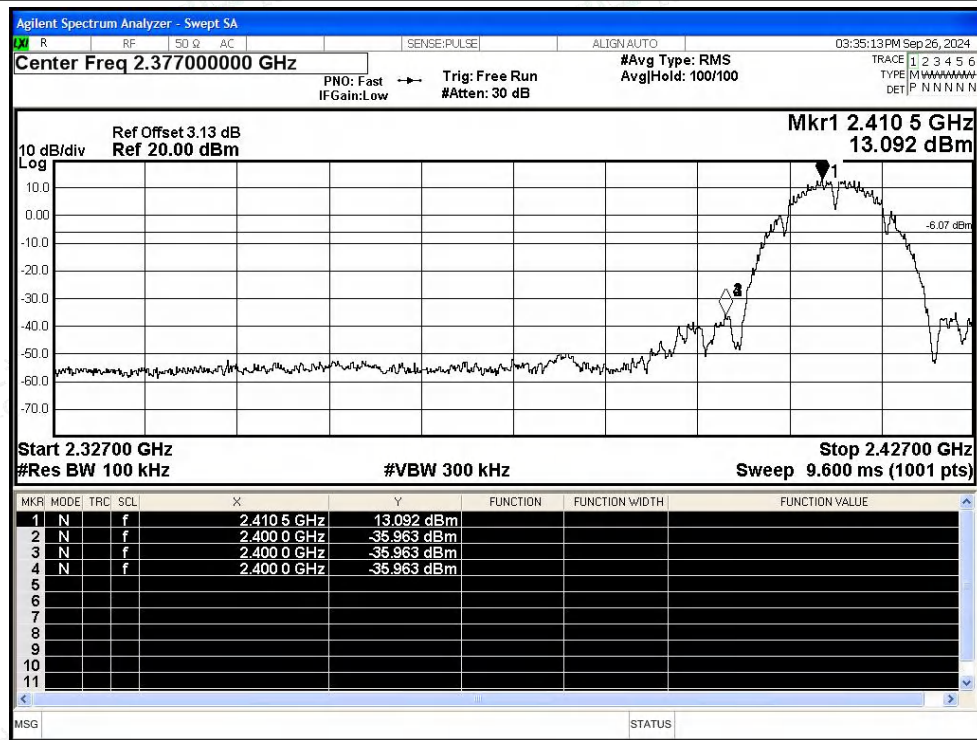


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

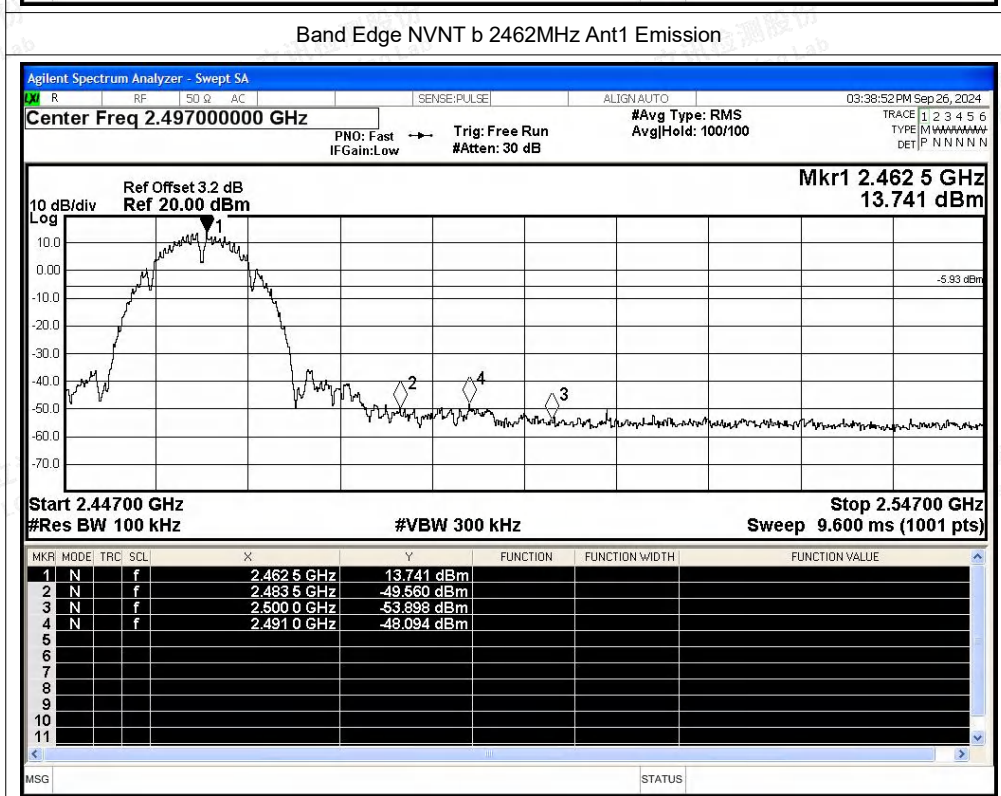
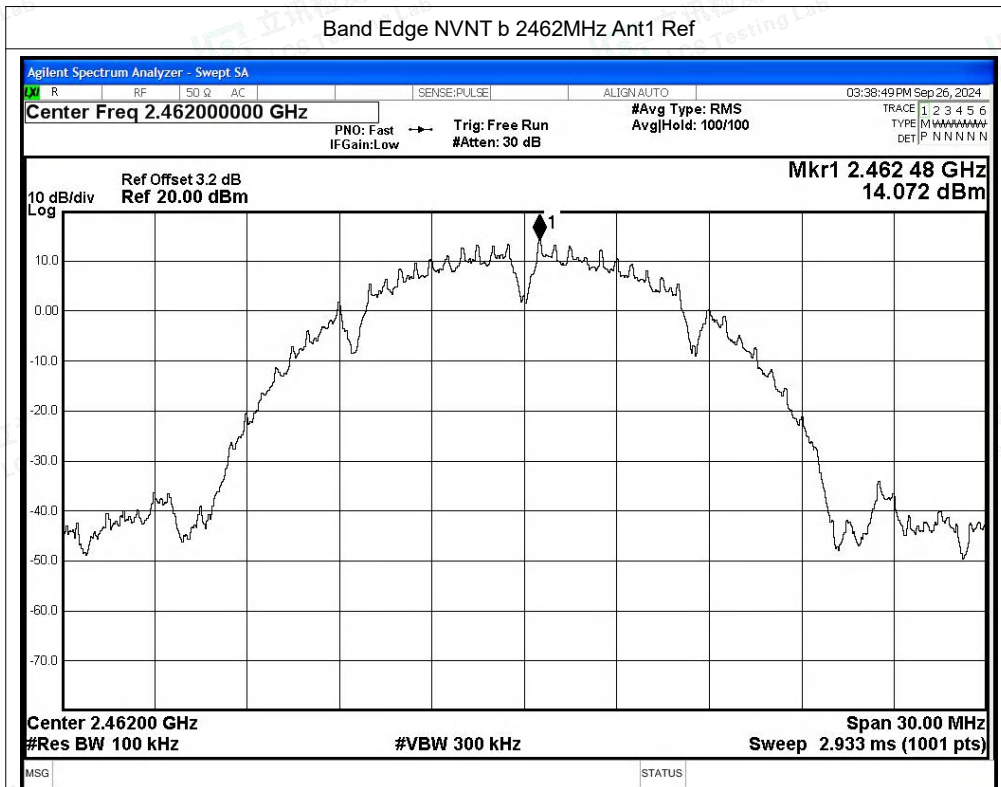


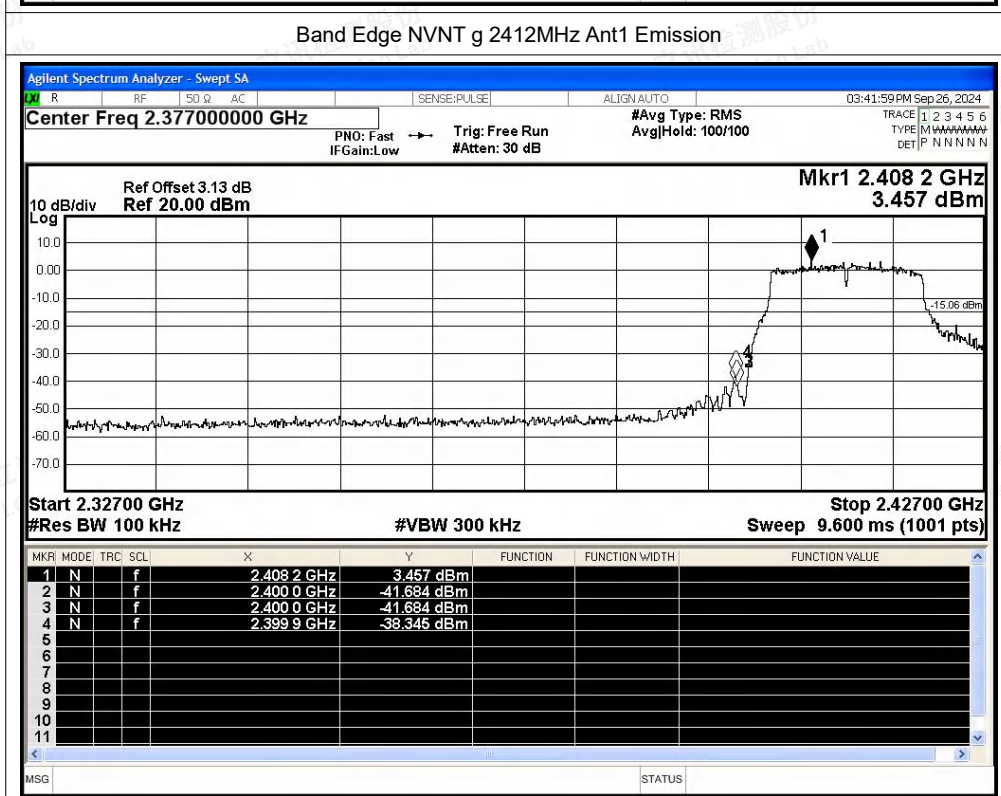
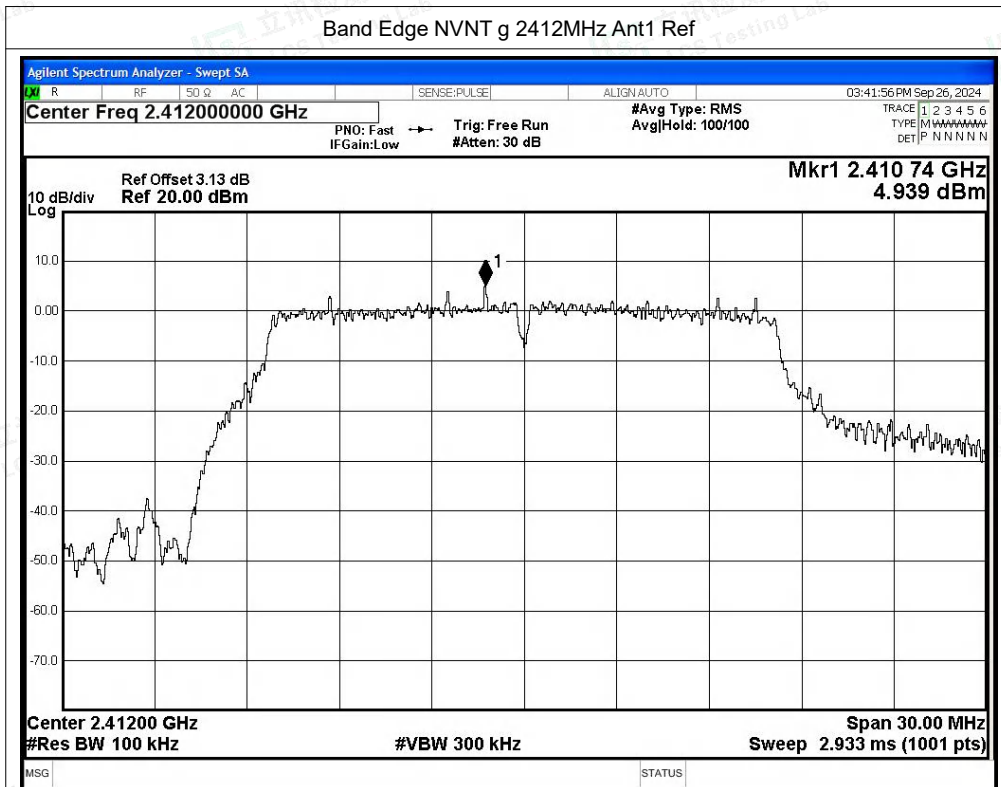
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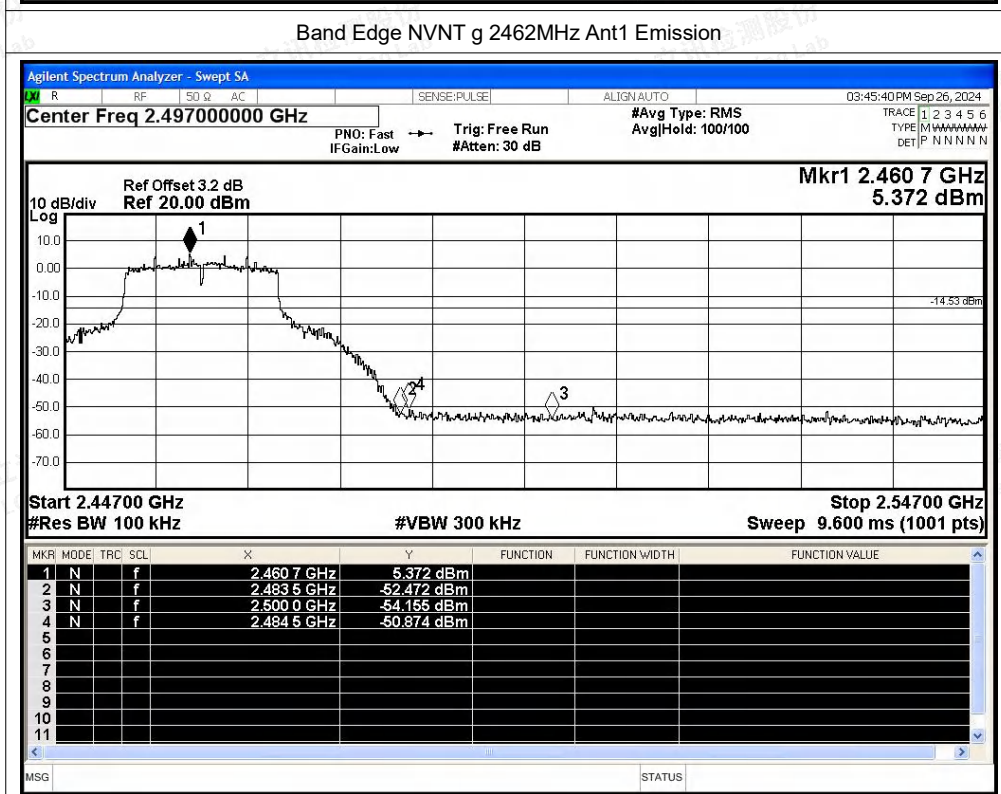
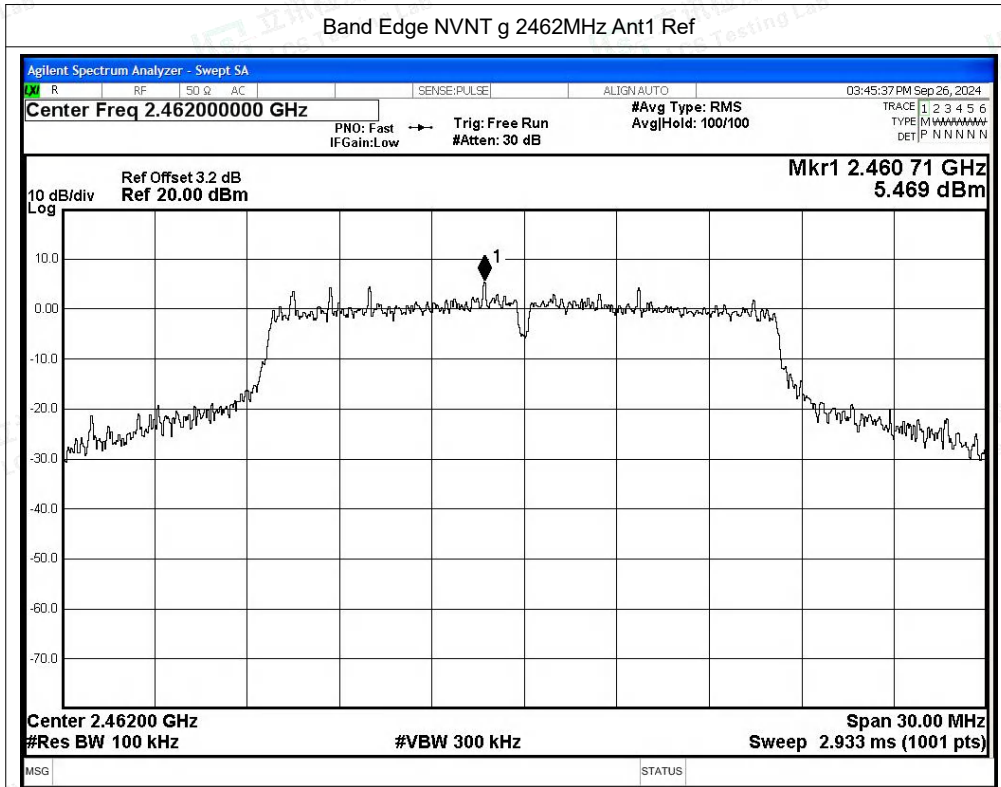
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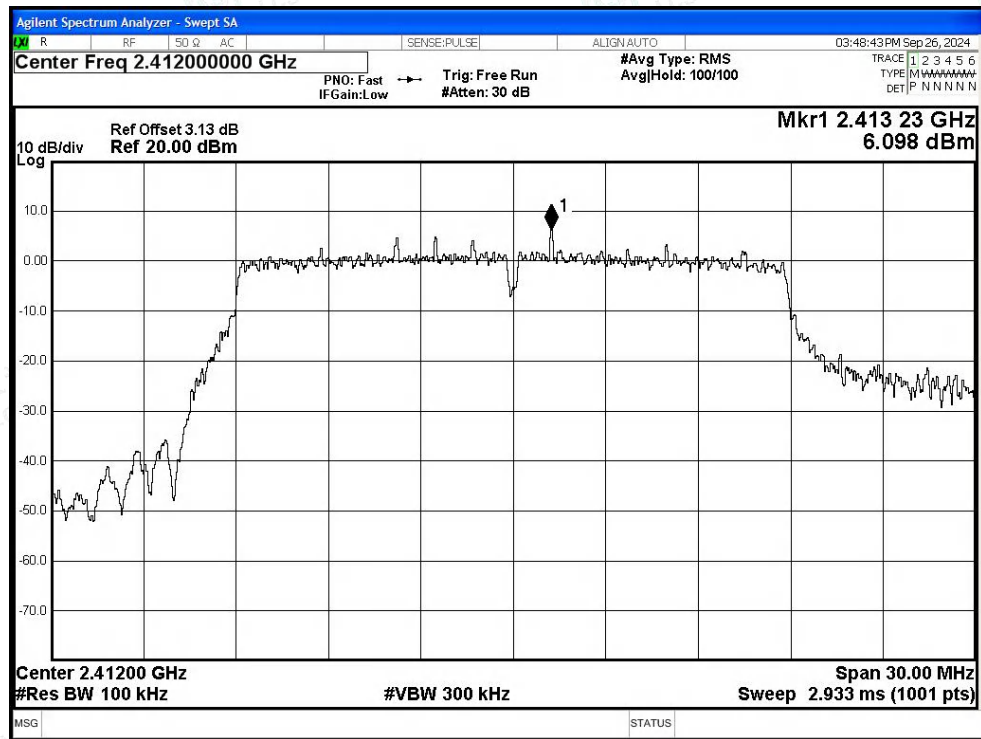
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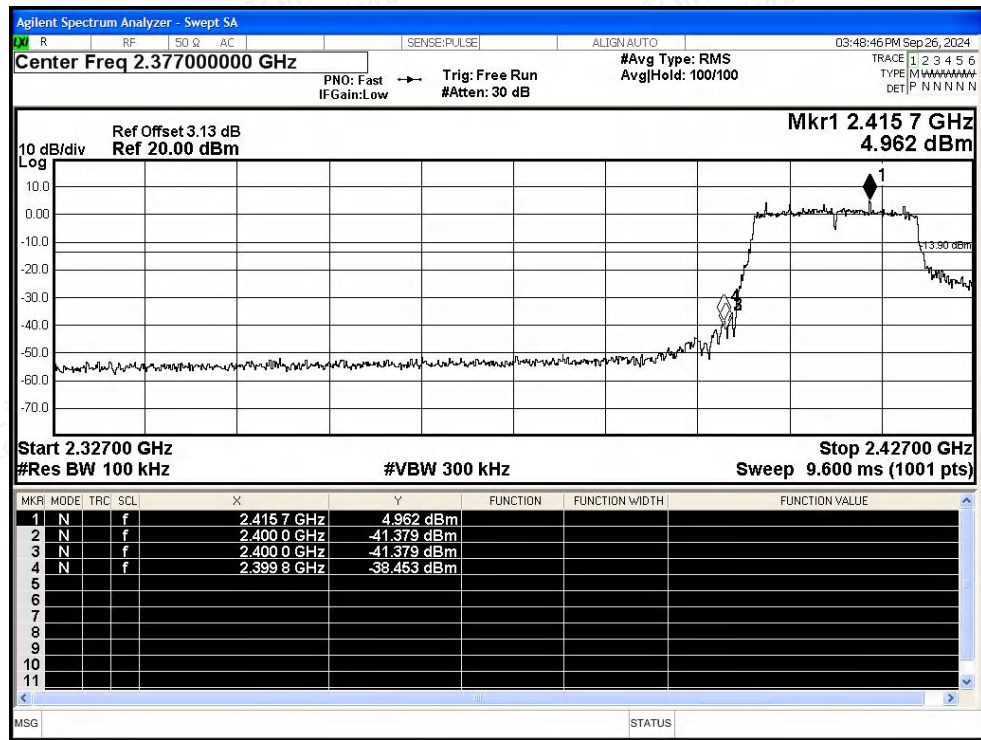




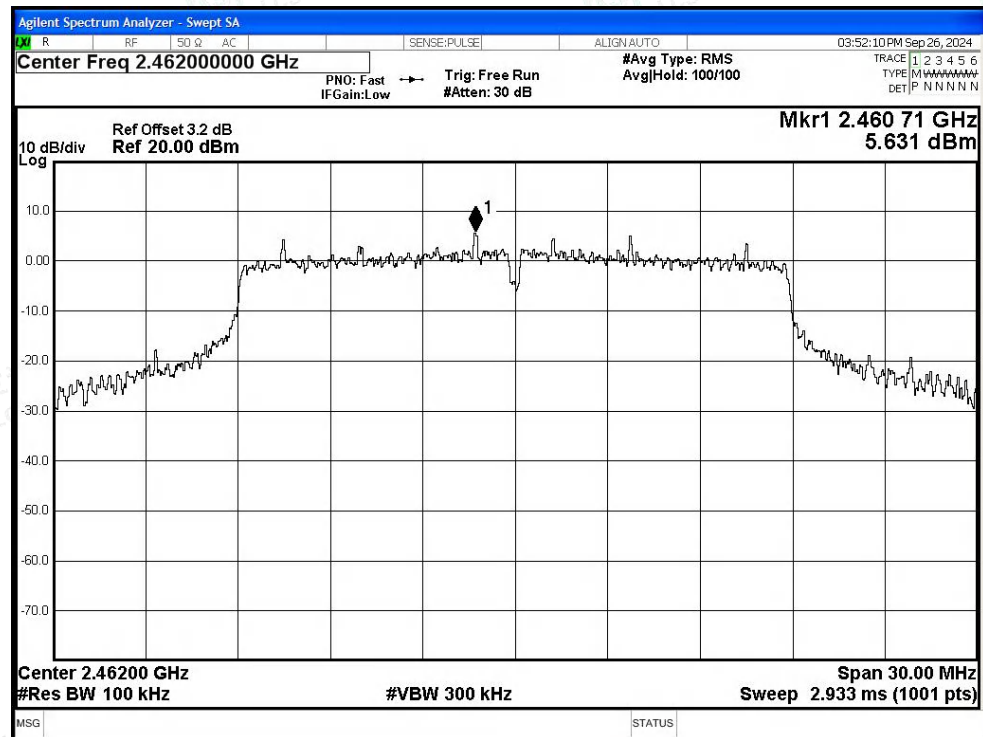
Band Edge NVNT n20 2412MHz Ant1 Ref



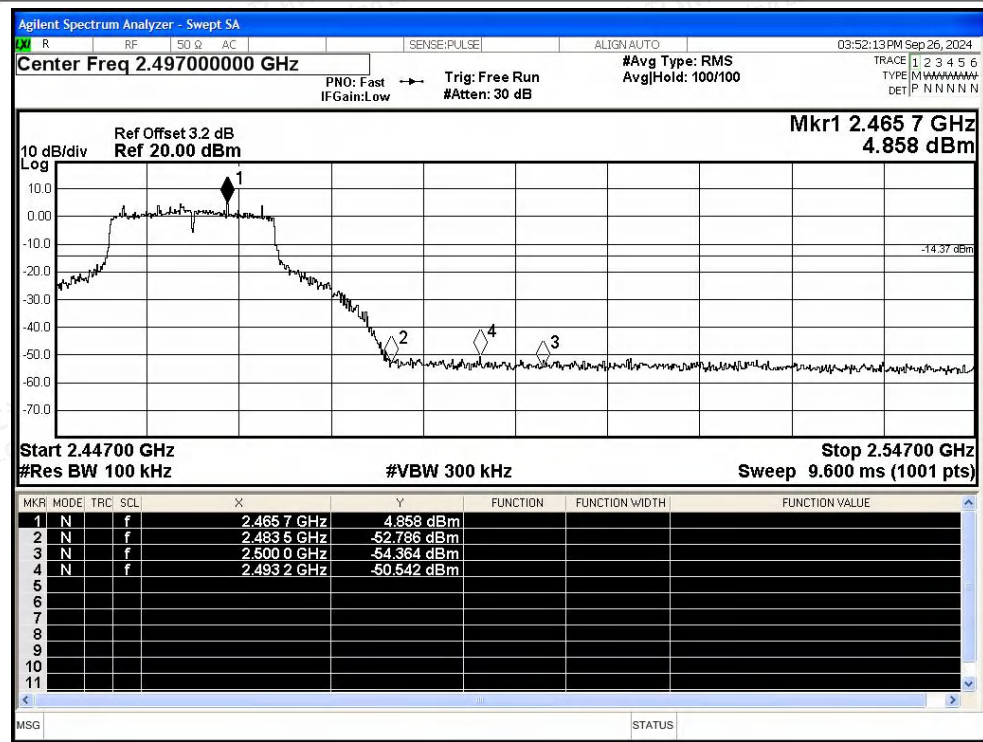
Band Edge NVNT n20 2412MHz Ant1 Emission



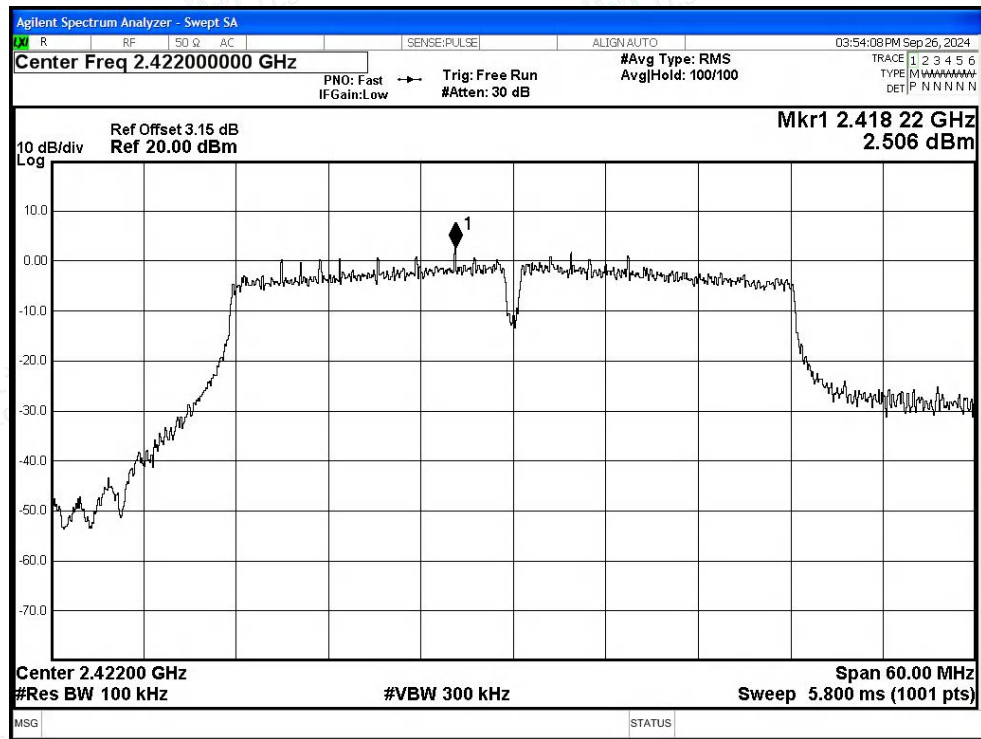
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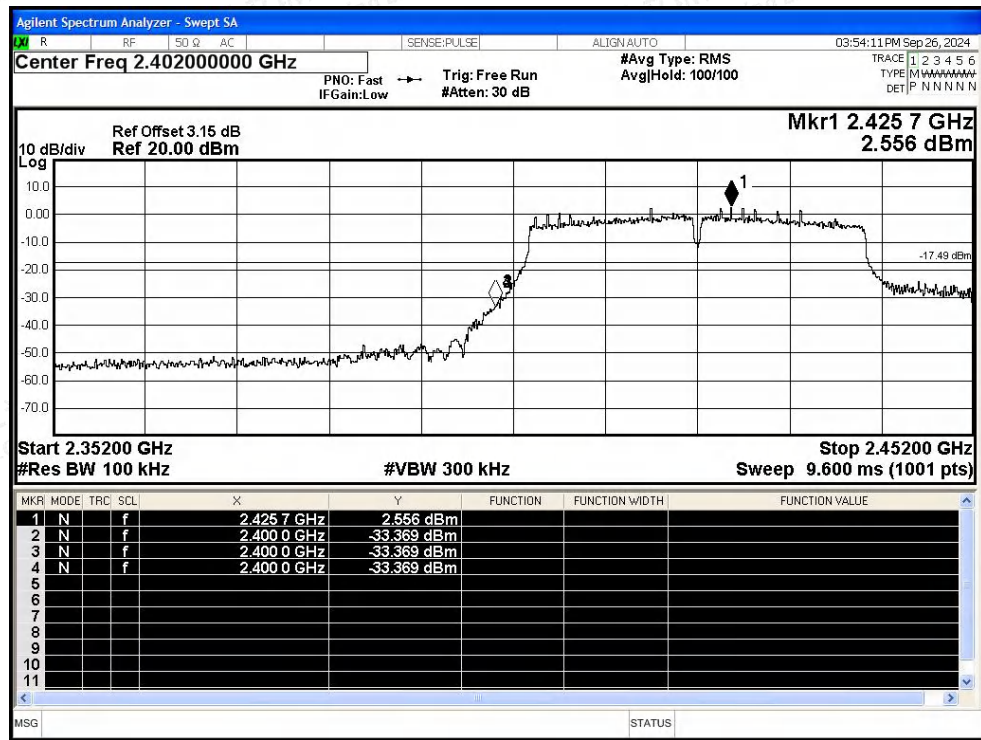
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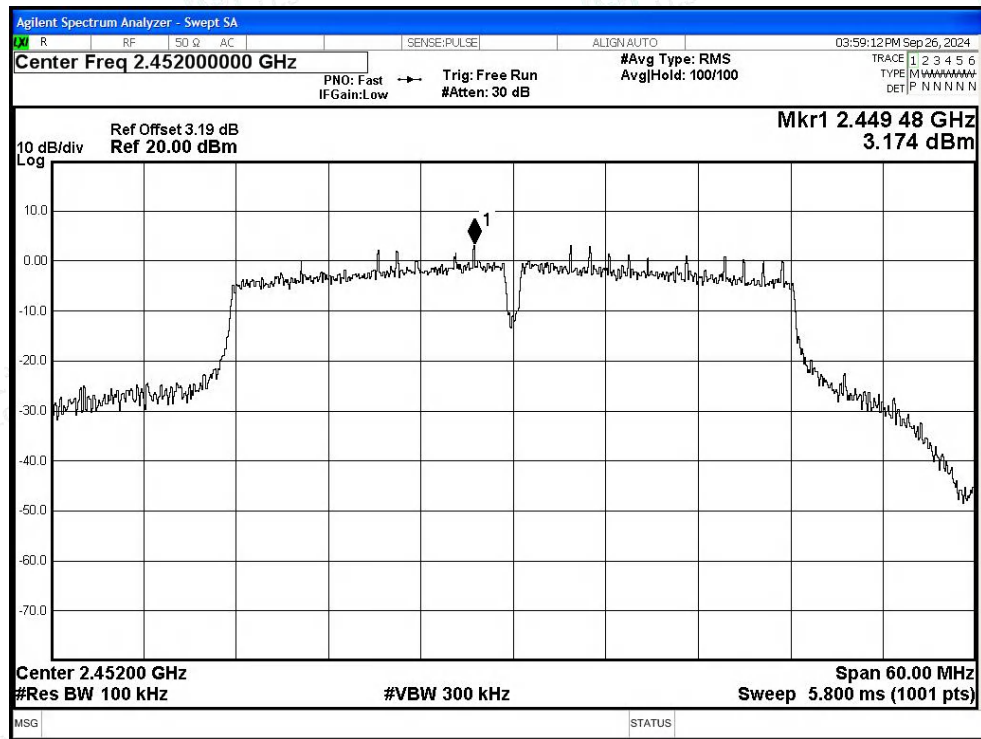
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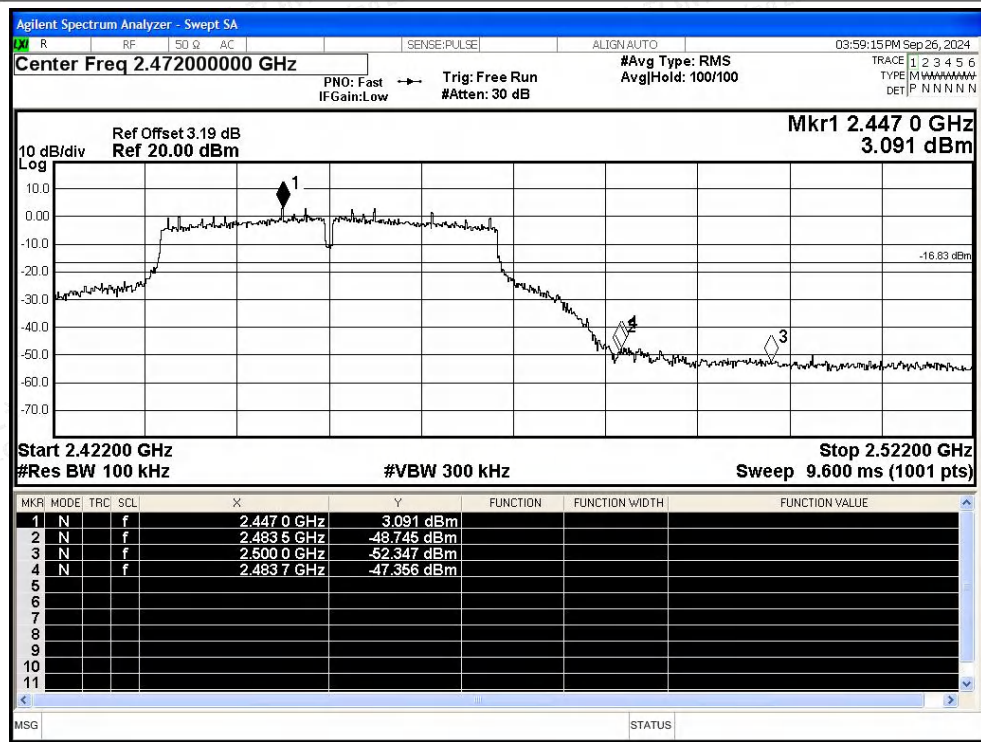
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



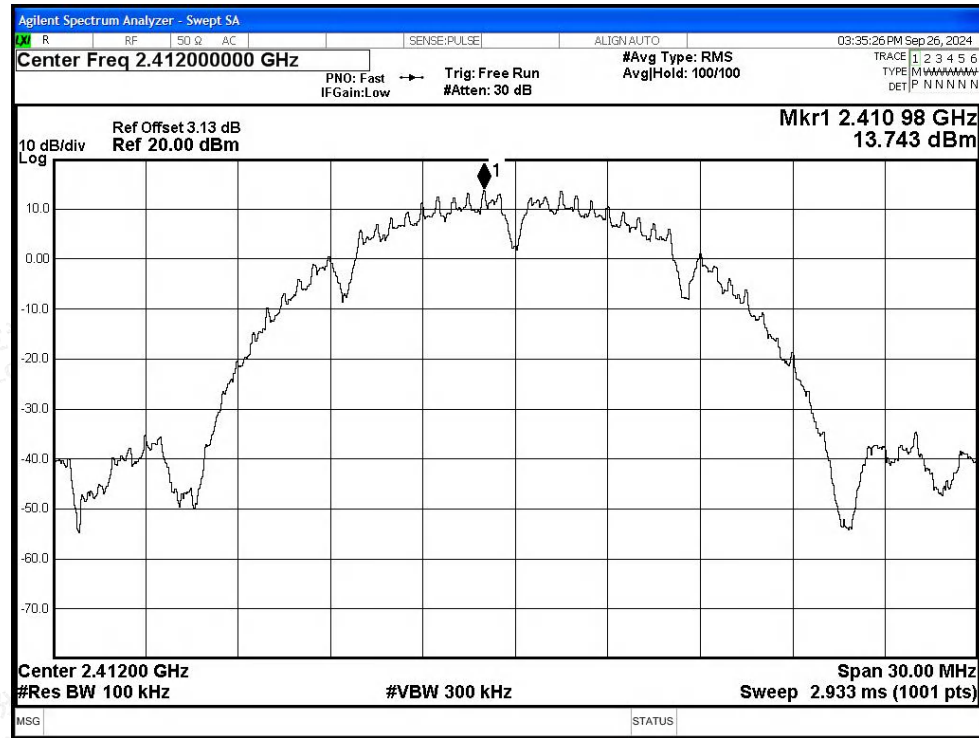
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-59.11	-20	Pass
NVNT	b	2437	Ant1	-58.46	-20	Pass
NVNT	b	2462	Ant1	-58.18	-20	Pass
NVNT	g	2412	Ant1	-50.67	-20	Pass
NVNT	g	2437	Ant1	-50.84	-20	Pass
NVNT	g	2462	Ant1	-50.42	-20	Pass
NVNT	n20	2412	Ant1	-49.96	-20	Pass
NVNT	n20	2437	Ant1	-50.75	-20	Pass
NVNT	n20	2462	Ant1	-50.74	-20	Pass
NVNT	n40	2422	Ant1	-47.95	-20	Pass
NVNT	n40	2437	Ant1	-48.29	-20	Pass
NVNT	n40	2452	Ant1	-48.08	-20	Pass

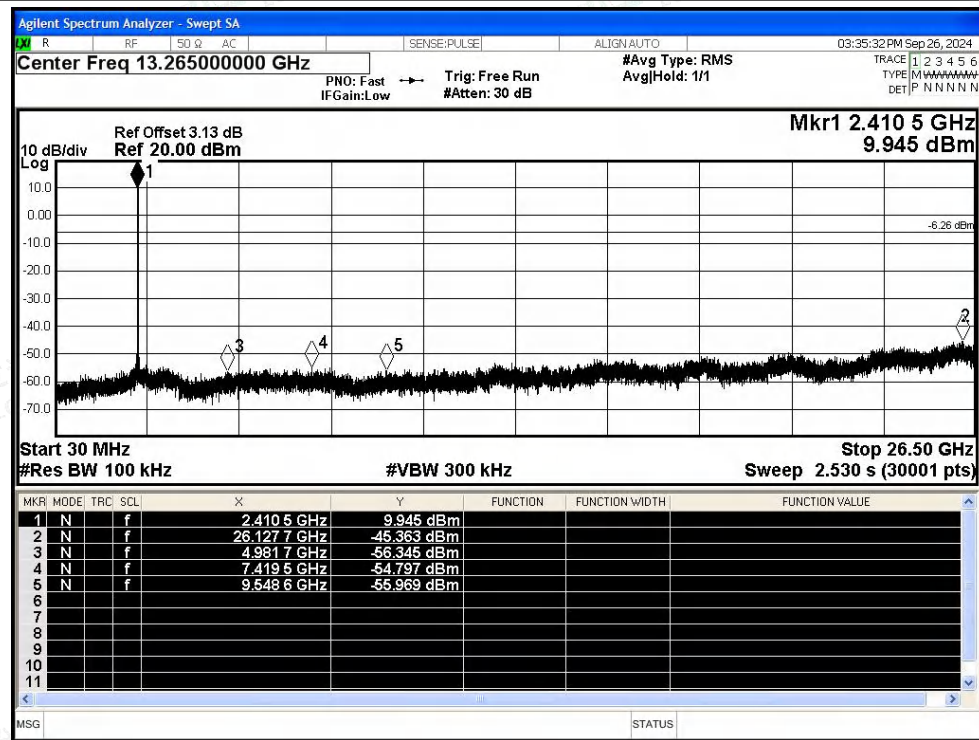


Test Graphs

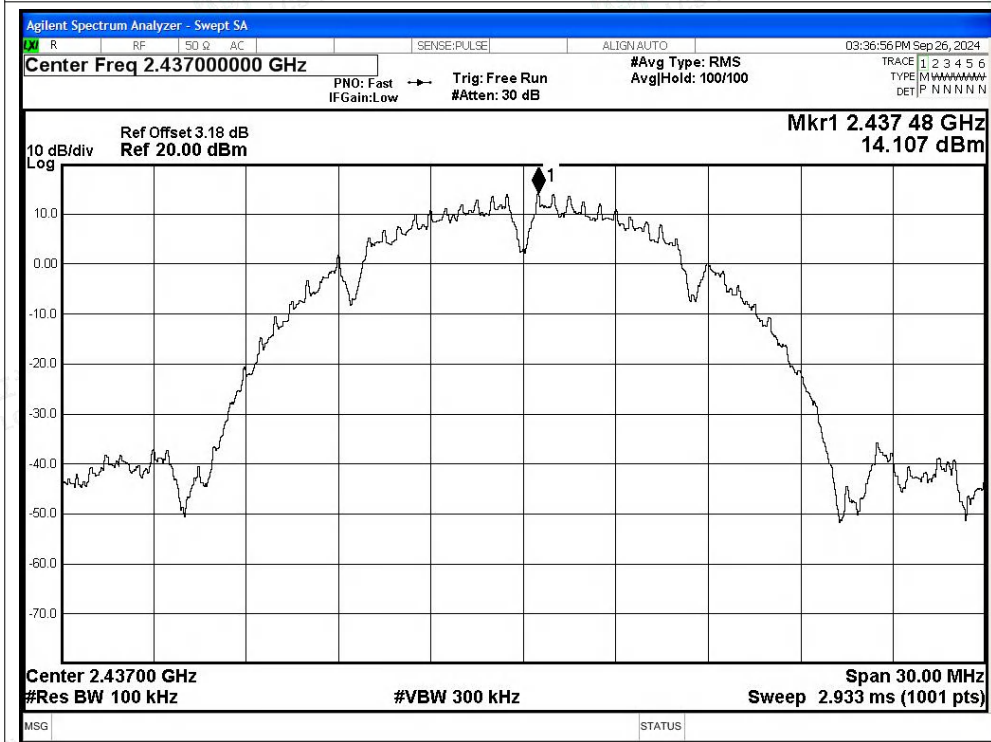
Tx. Spurious NVNT b 2412MHz Ant1 Ref



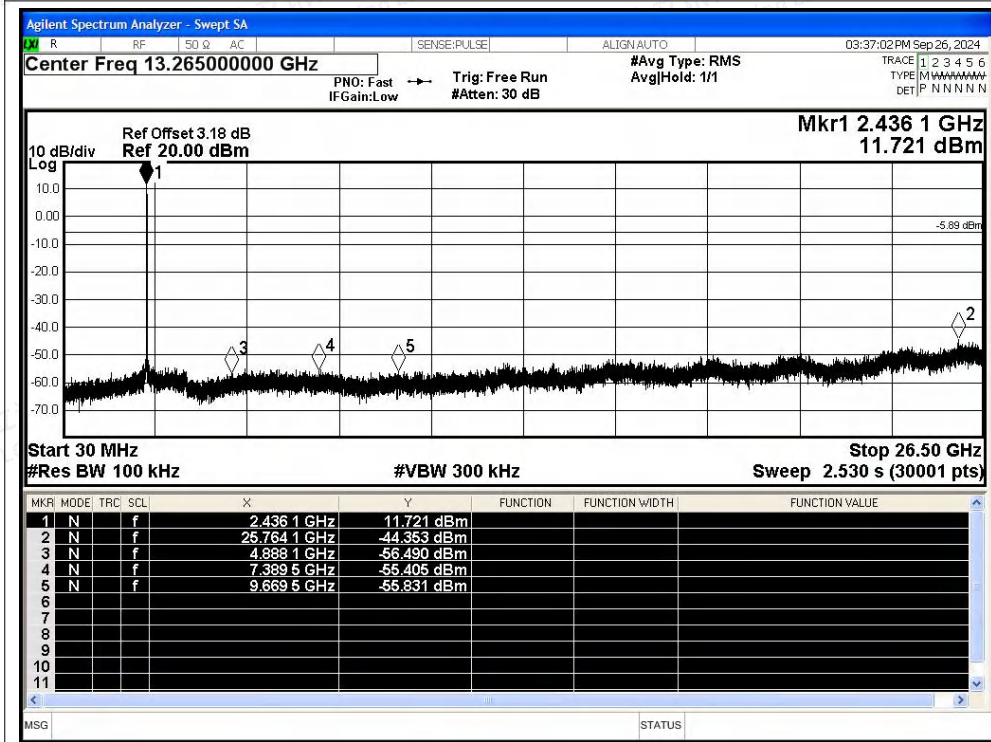
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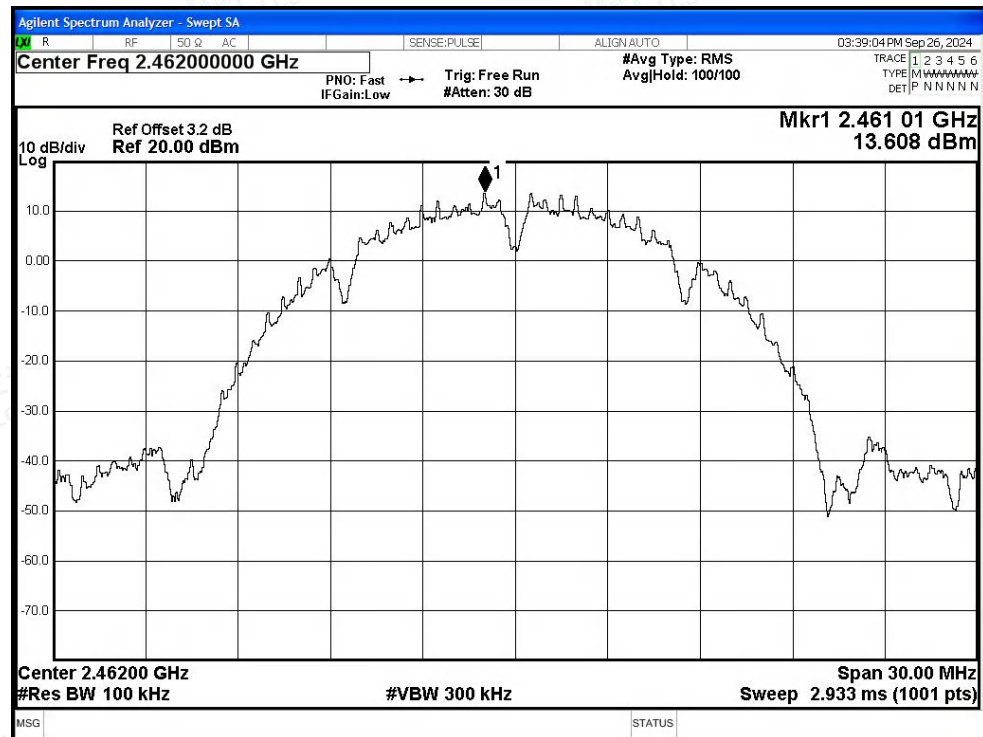
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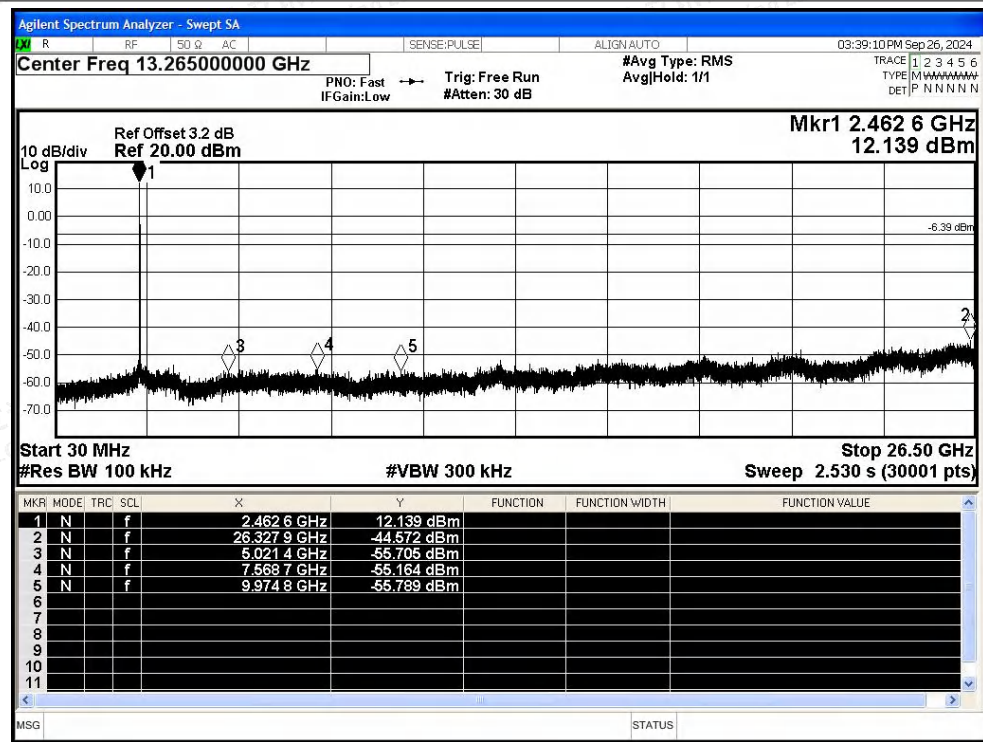
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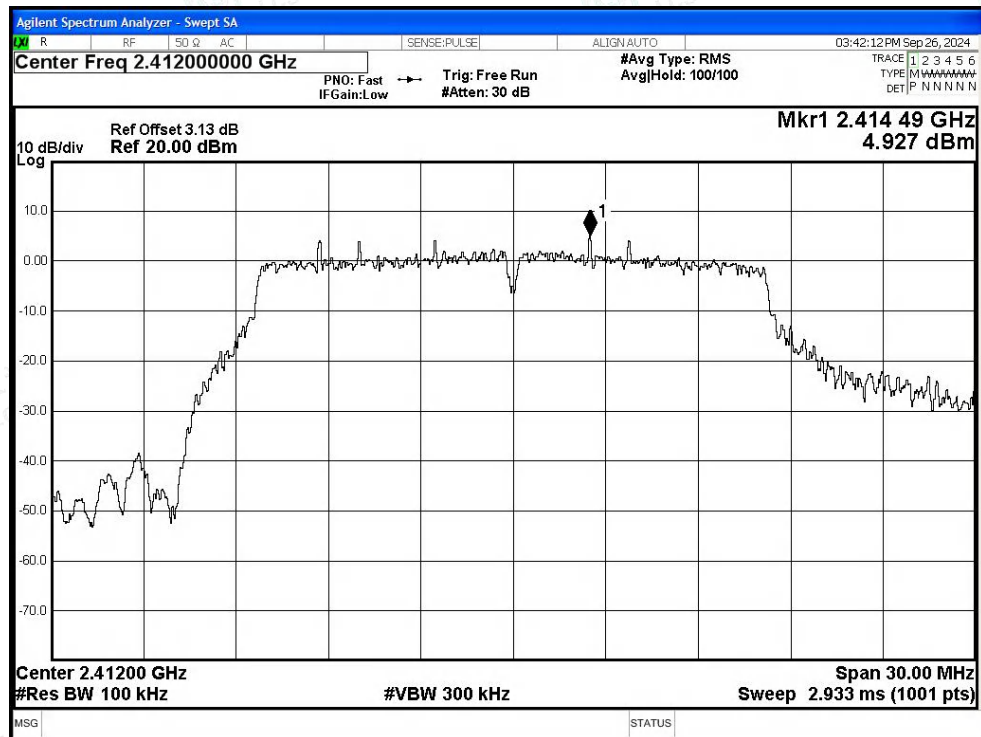
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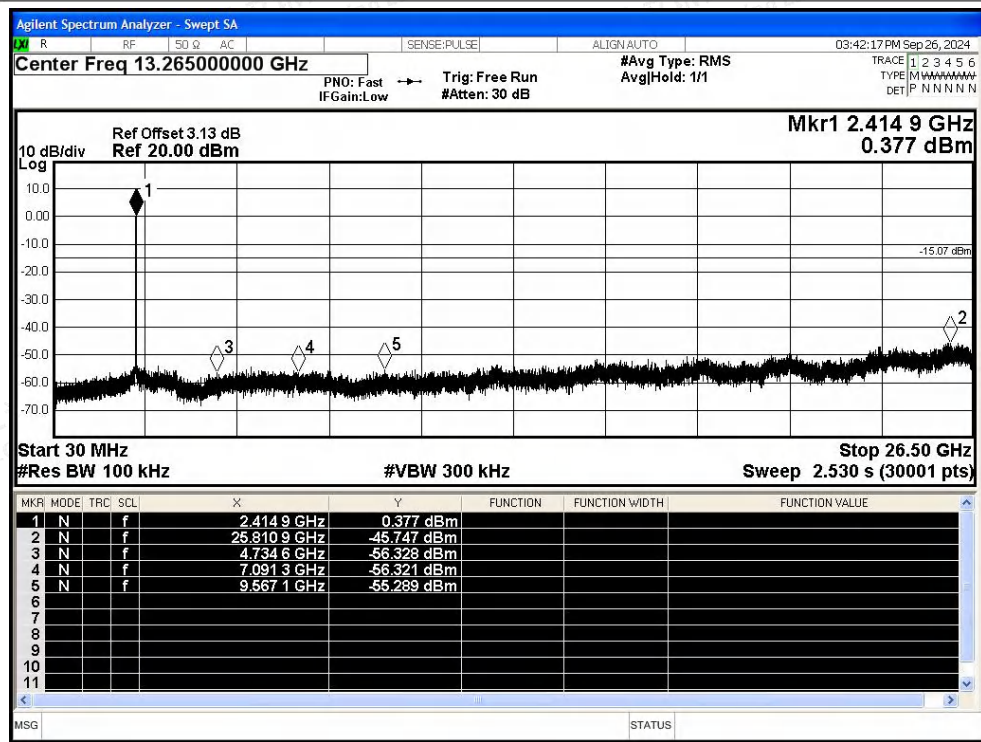
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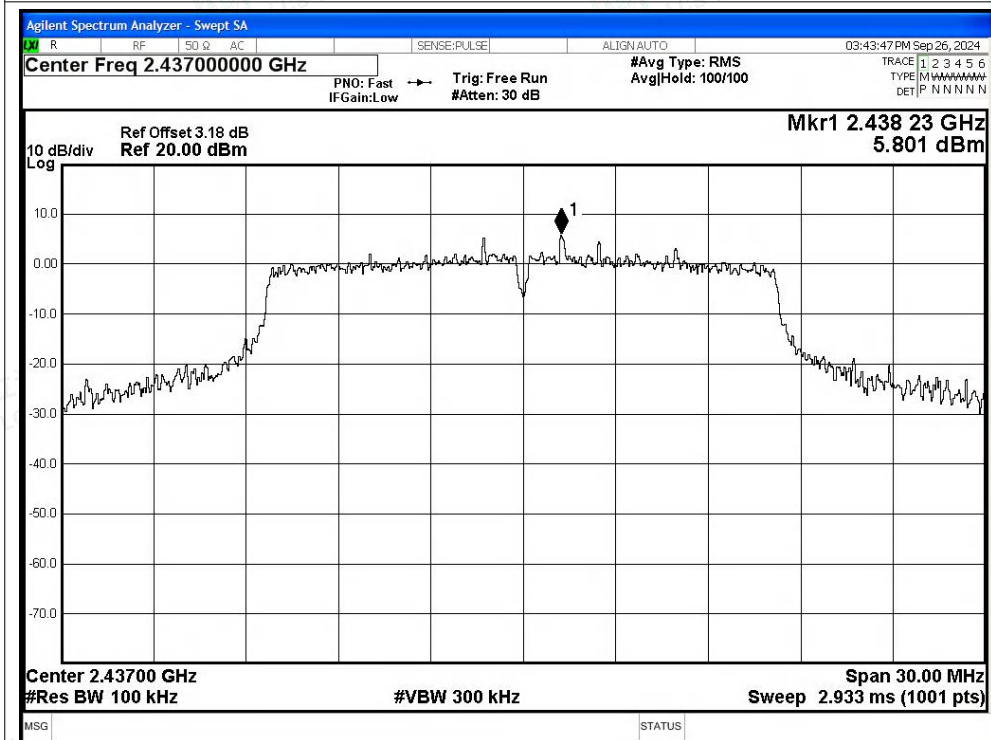
Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

