



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Service Robot

Test Model: R2

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	8.075	≥ 0.5	Pass
NVNT	b	2437	Ant0	7.609	≥ 0.5	Pass
NVNT	b	2462	Ant0	8.048	≥ 0.5	Pass
NVNT	g	2412	Ant0	15.739	≥ 0.5	Pass
NVNT	g	2437	Ant0	16.156	≥ 0.5	Pass
NVNT	g	2462	Ant0	16.314	≥ 0.5	Pass
NVNT	n20	2412	Ant0	16.585	≥ 0.5	Pass
NVNT	n20	2437	Ant0	17.24	≥ 0.5	Pass
NVNT	n20	2462	Ant0	16.961	≥ 0.5	Pass

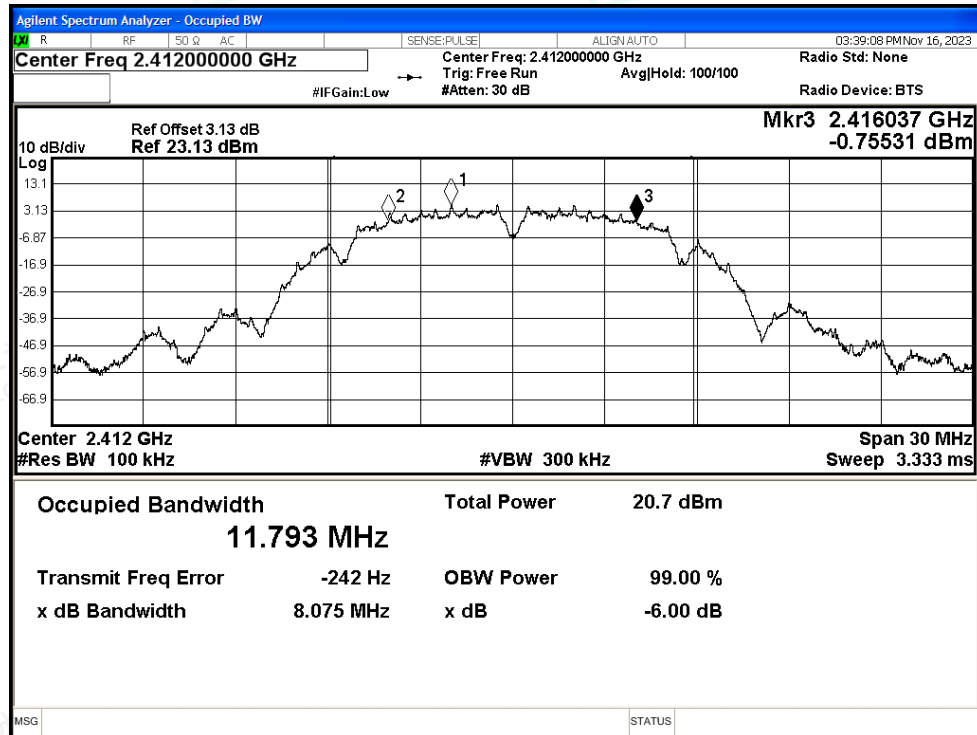


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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0



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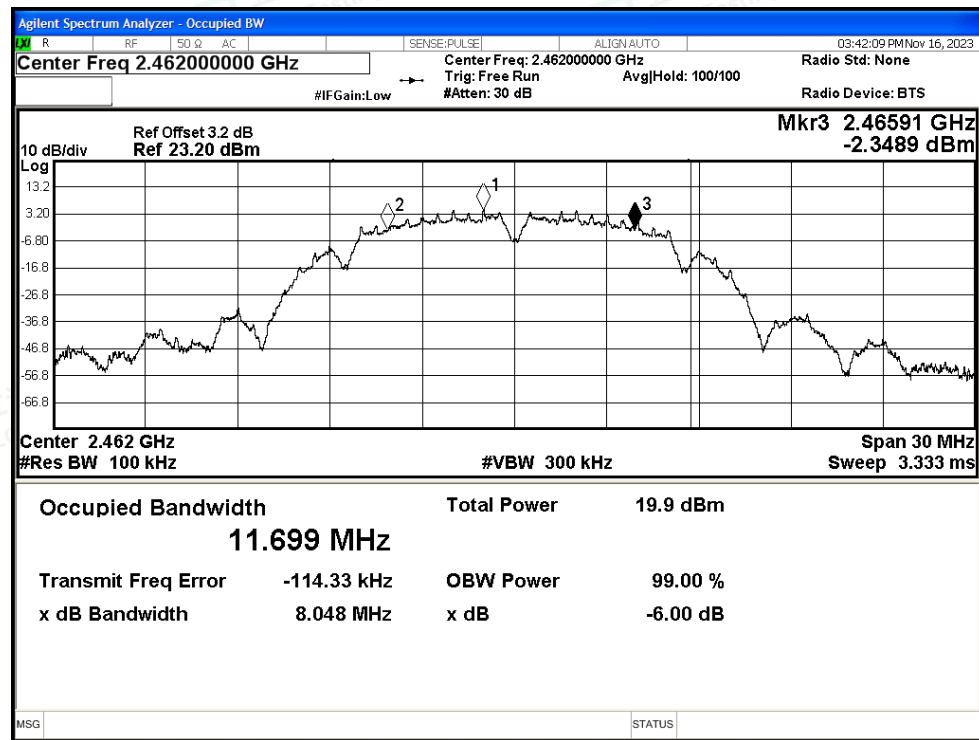
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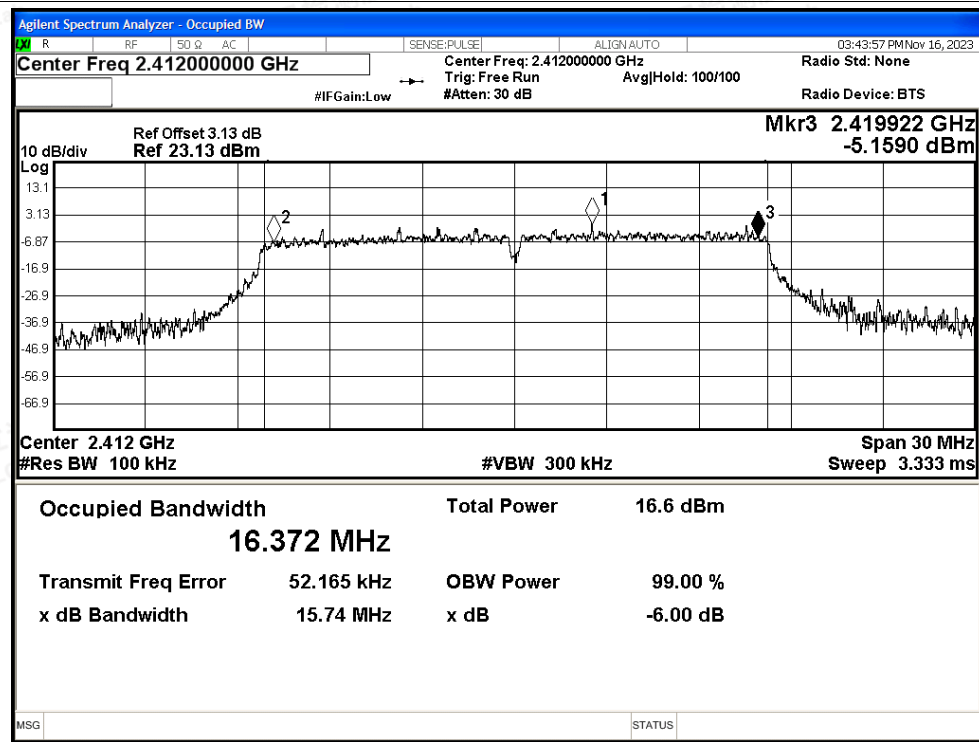
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-6dB Bandwidth NVNT b 2462MHz Ant0



-6dB Bandwidth NVNT g 2412MHz Ant0



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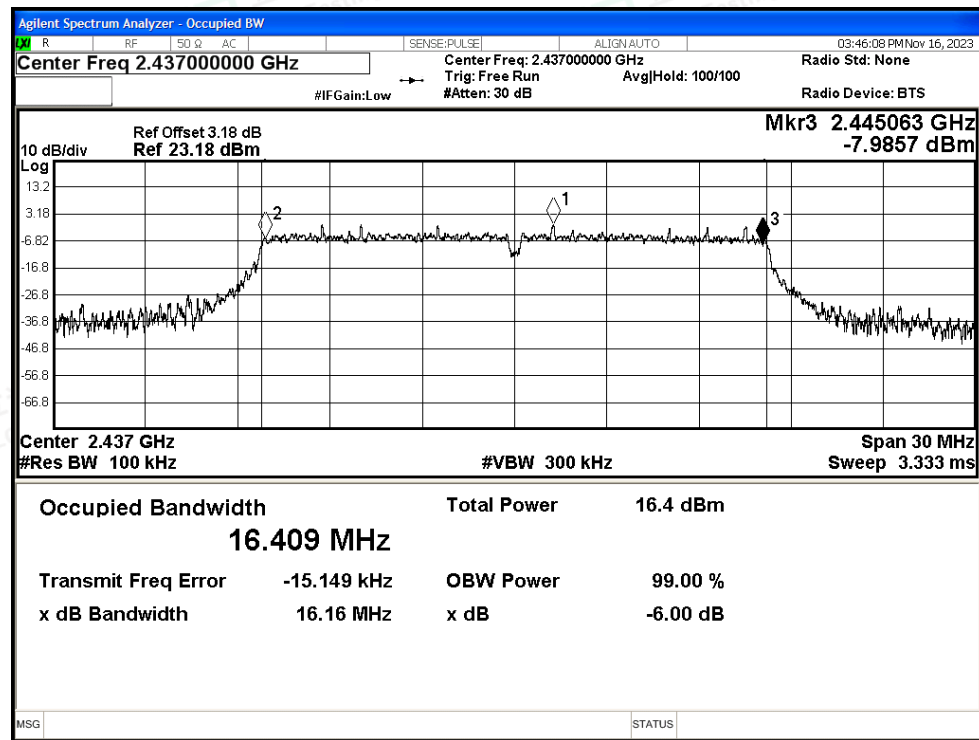
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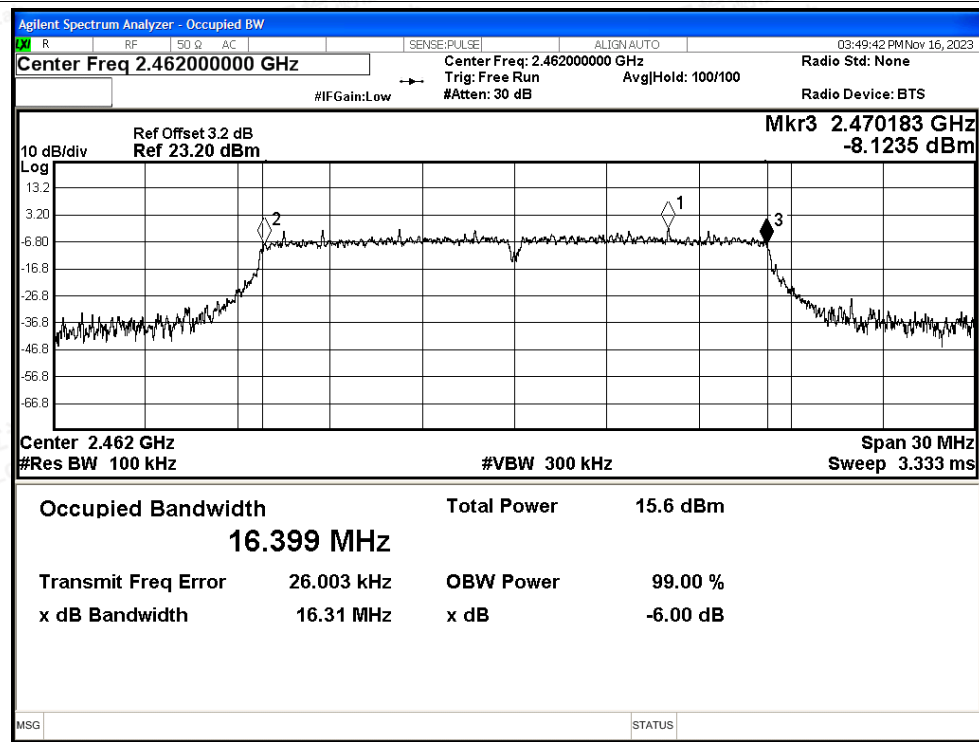
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-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0



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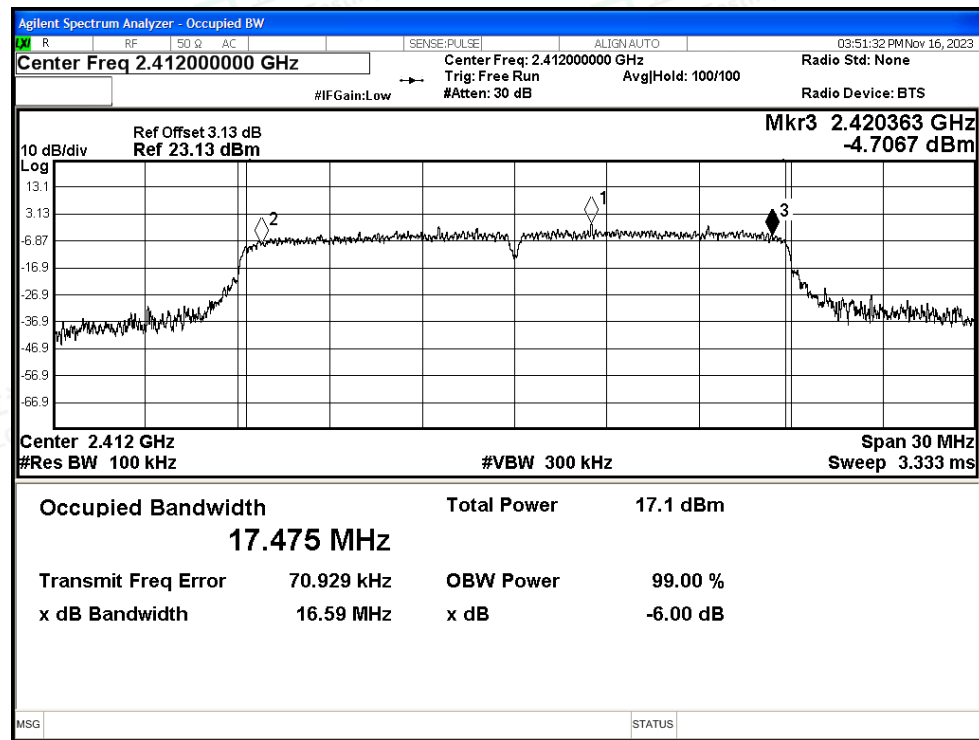
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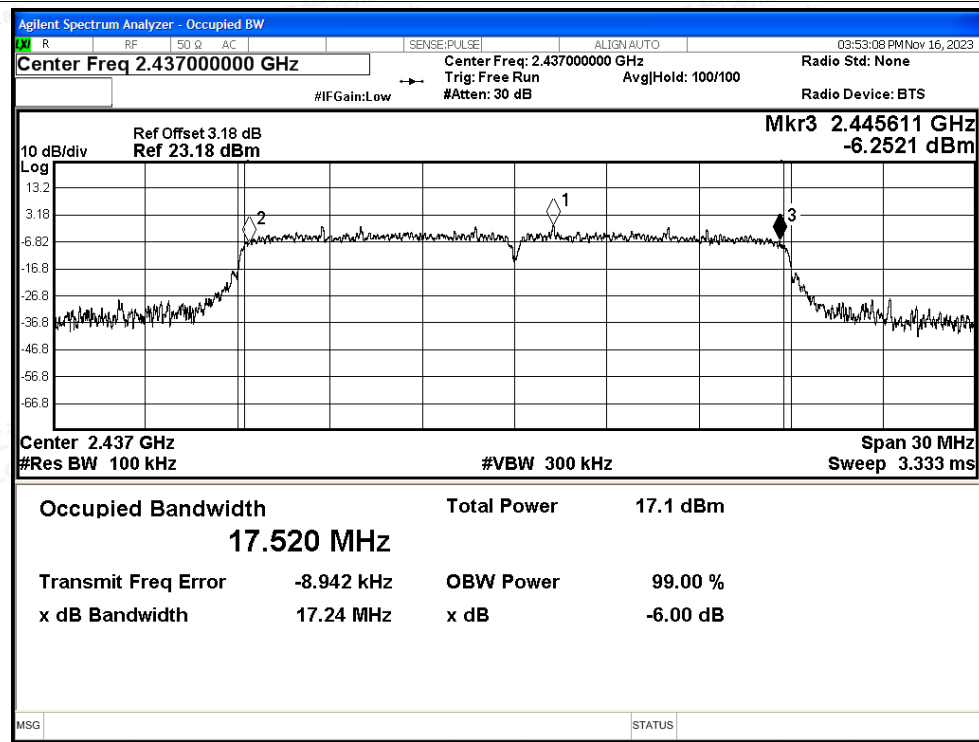
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-6dB Bandwidth NVNT n20 2412MHz Ant0



-6dB Bandwidth NVNT n20 2437MHz Ant0

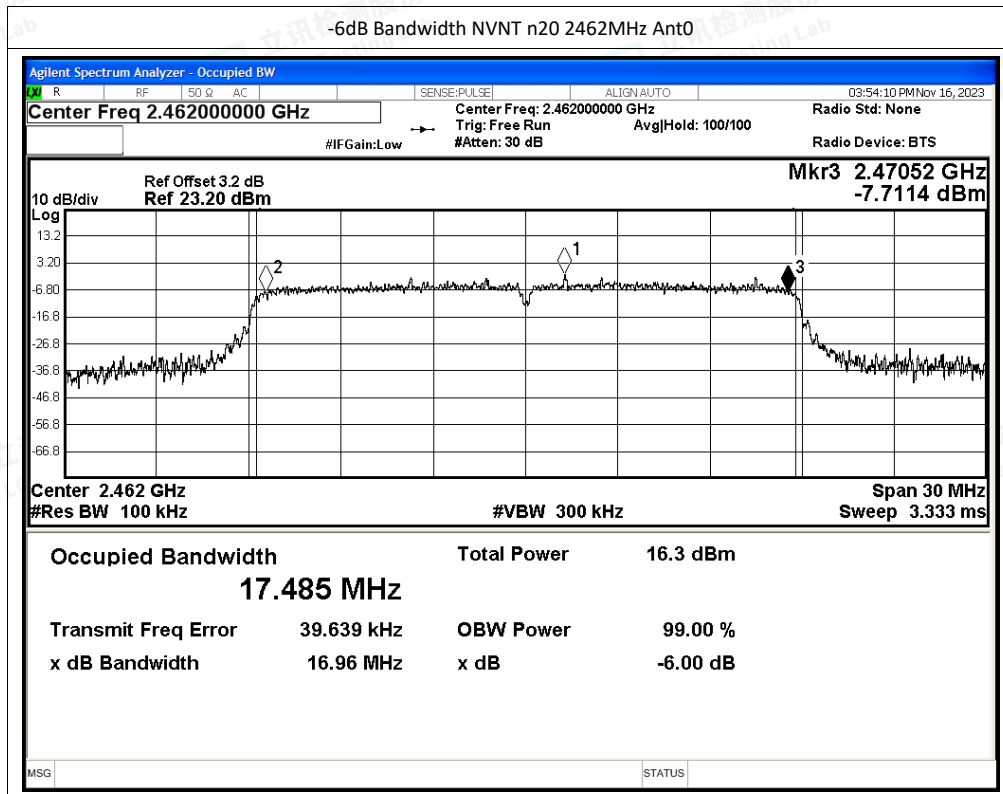


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A.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq (MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant0	2412	15.75	≤30.00	PASS
		2437	16.09	≤30.00	PASS
		2462	14.92	≤30.00	PASS
11G	Ant0	2412	15.29	≤30.00	PASS
		2437	15.17	≤30.00	PASS
		2462	14.39	≤30.00	PASS
11N20SISO	Ant0	2412	15.74	≤30.00	PASS
		2437	15.62	≤30.00	PASS
		2462	14.93	≤30.00	PASS



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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq (MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant0	2412	-7.64	≤8.00	PASS
		2437	-7.3	≤8.00	PASS
		2462	-9.07	≤8.00	PASS
11G	Ant0	2412	-14.32	≤8.00	PASS
		2437	-15.08	≤8.00	PASS
		2462	-15.81	≤8.00	PASS
11N20SISO	Ant0	2412	-15.1	≤8.00	PASS
		2437	-14.99	≤8.00	PASS
		2462	-15.74	≤8.00	PASS

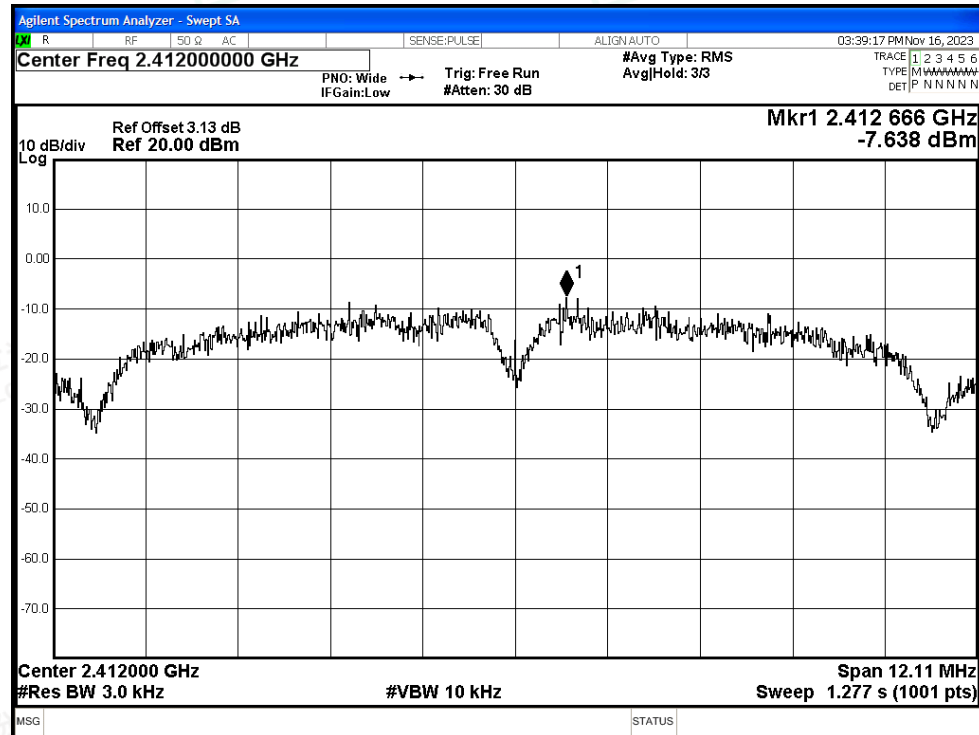


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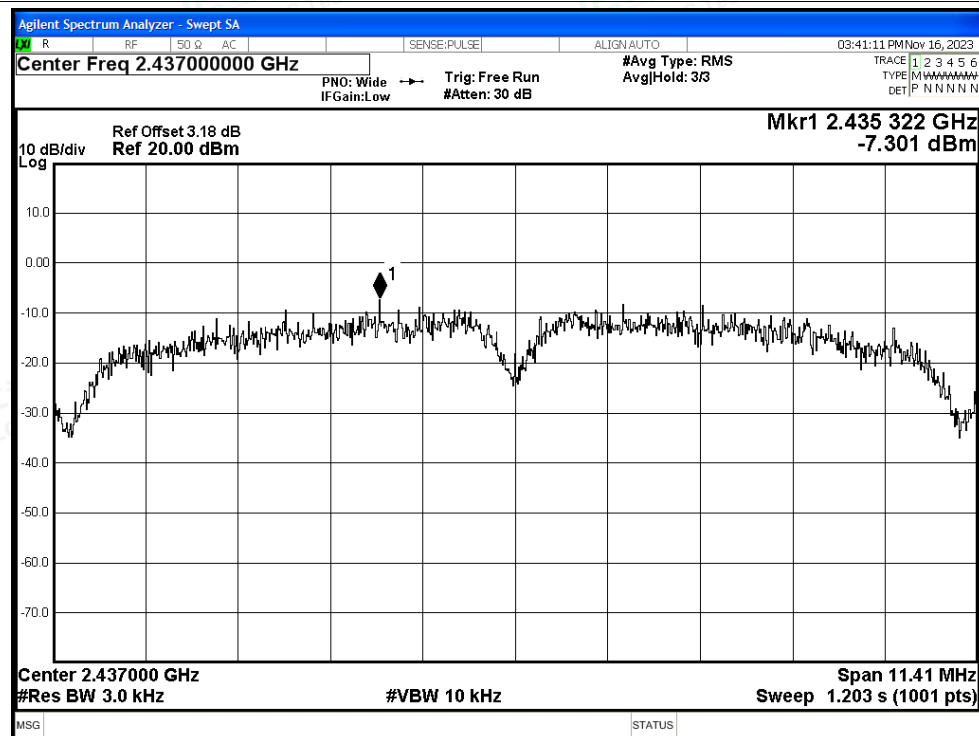


Test Graphs

PSD NVNT b 2412MHz Ant0



PSD NVNT b 2437MHz Ant0

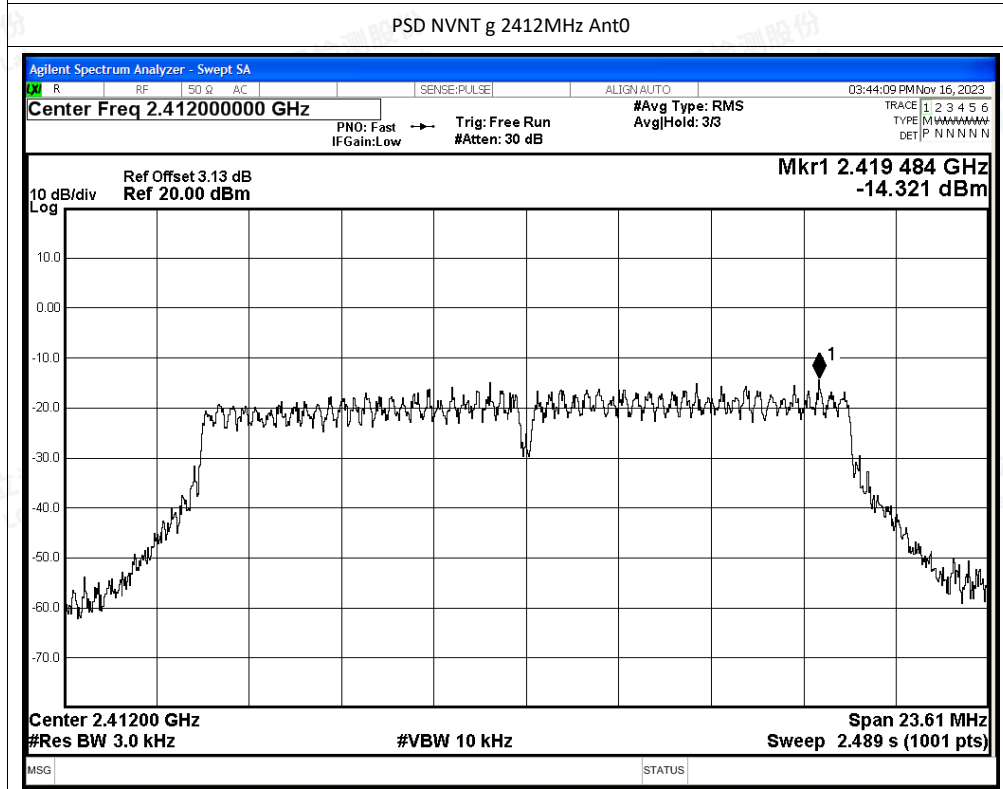
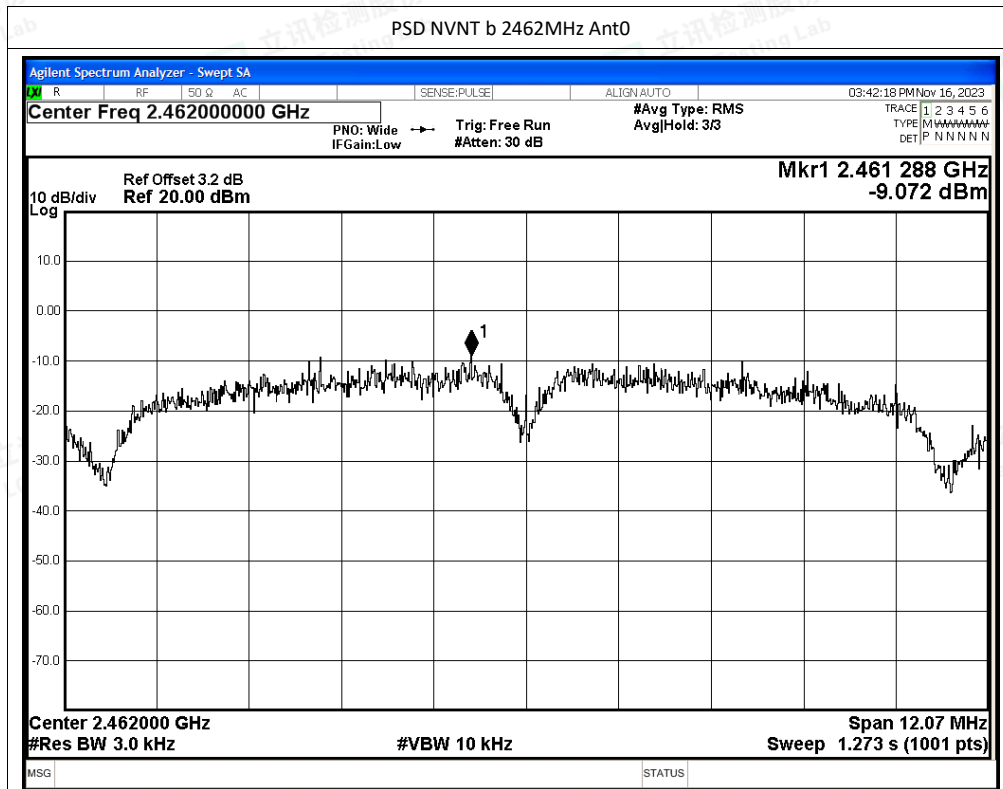


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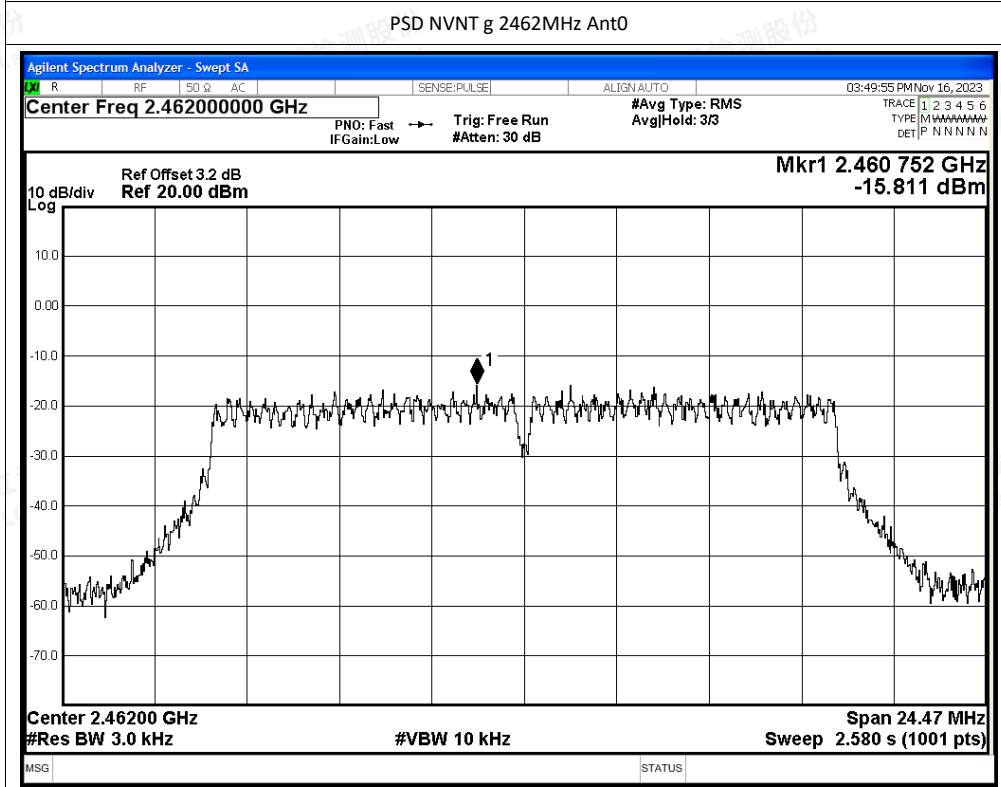
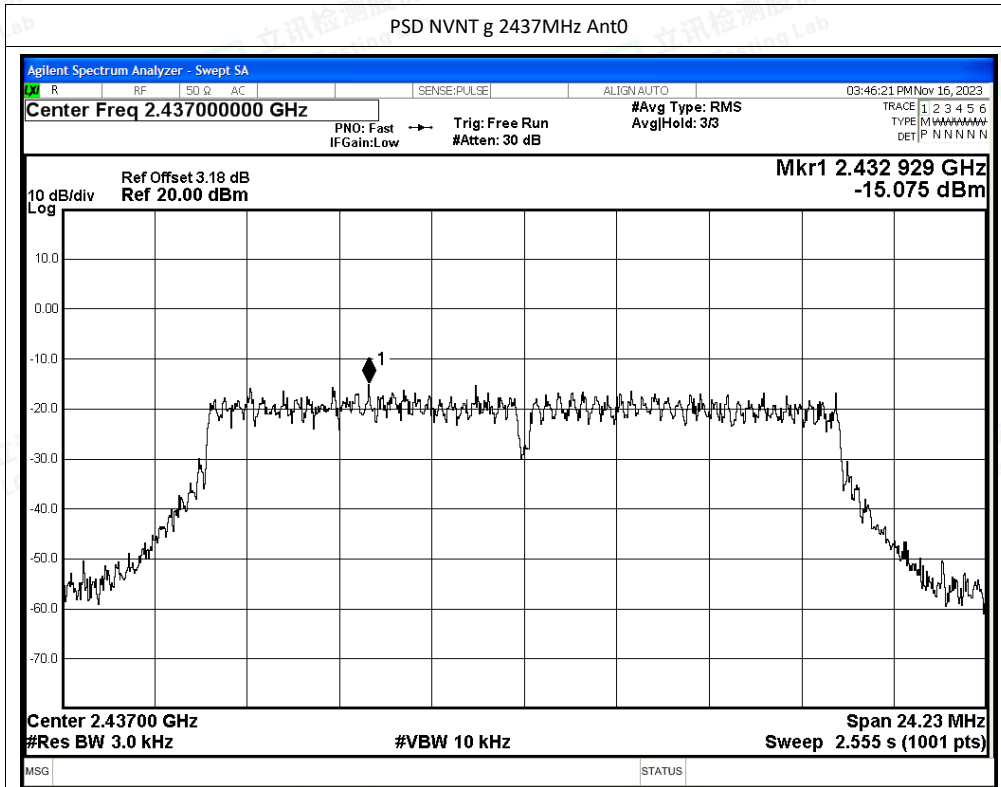


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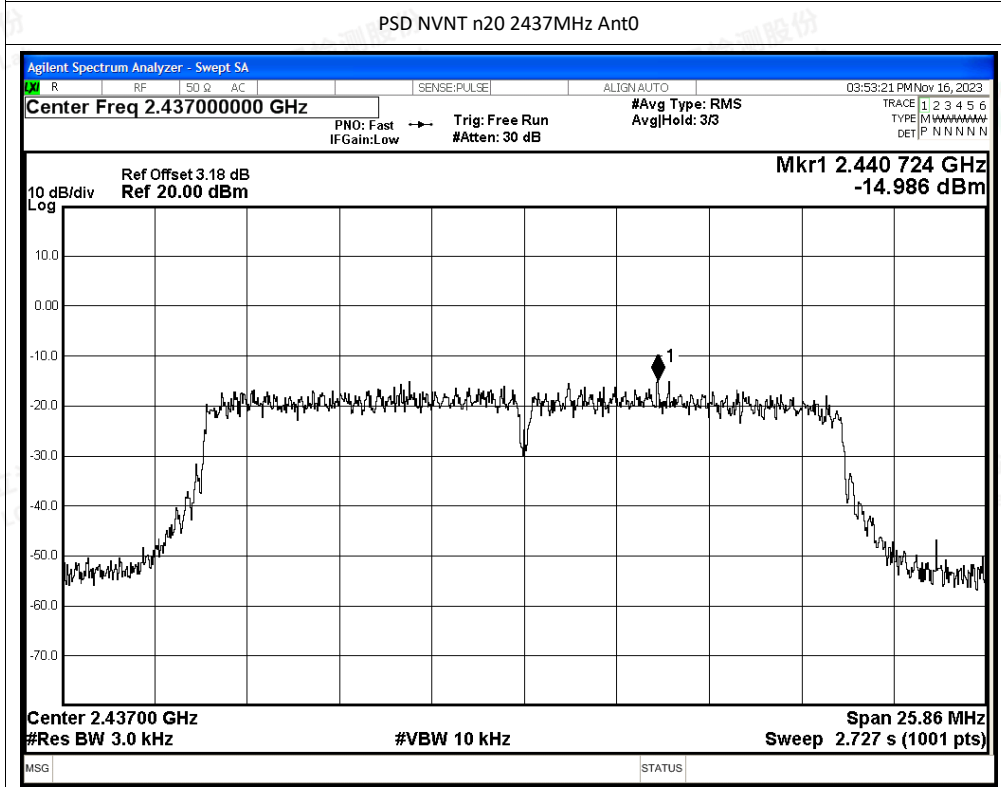
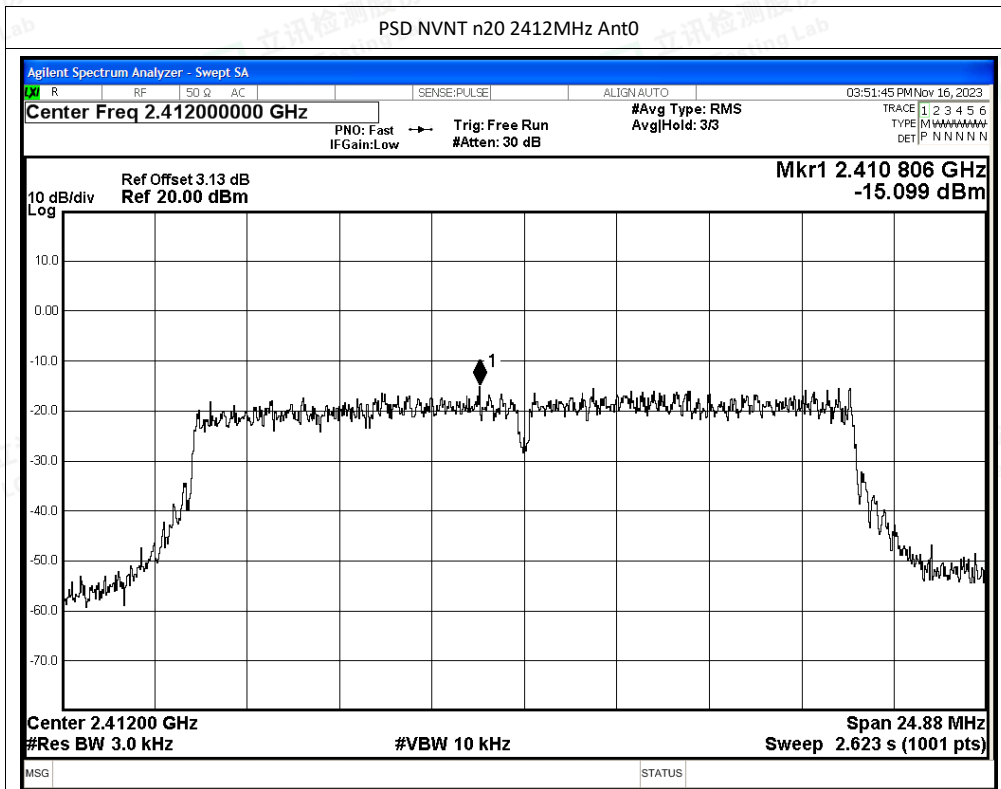


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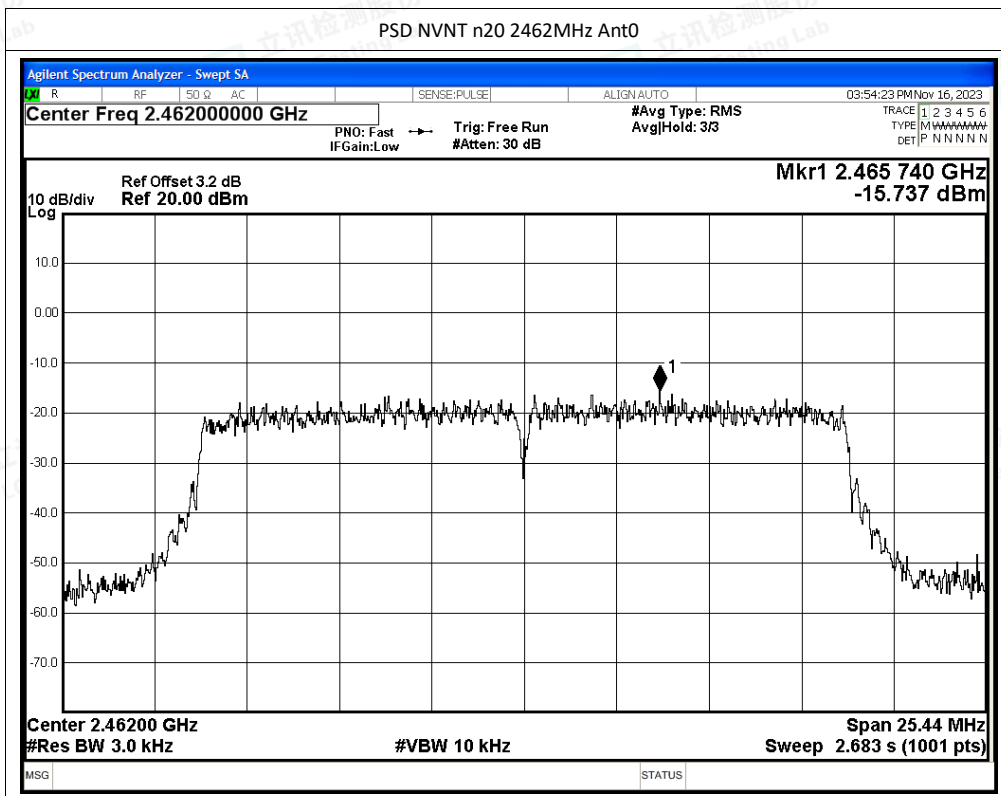


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A.4 Band edge measurements

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-46.58	-20	Pass
NVNT	b	2462	Ant0	-58.3	-20	Pass
NVNT	g	2412	Ant0	-33.63	-20	Pass
NVNT	g	2462	Ant0	-41.83	-20	Pass
NVNT	n20	2412	Ant0	-32.33	-20	Pass
NVNT	n20	2462	Ant0	-41.06	-20	Pass



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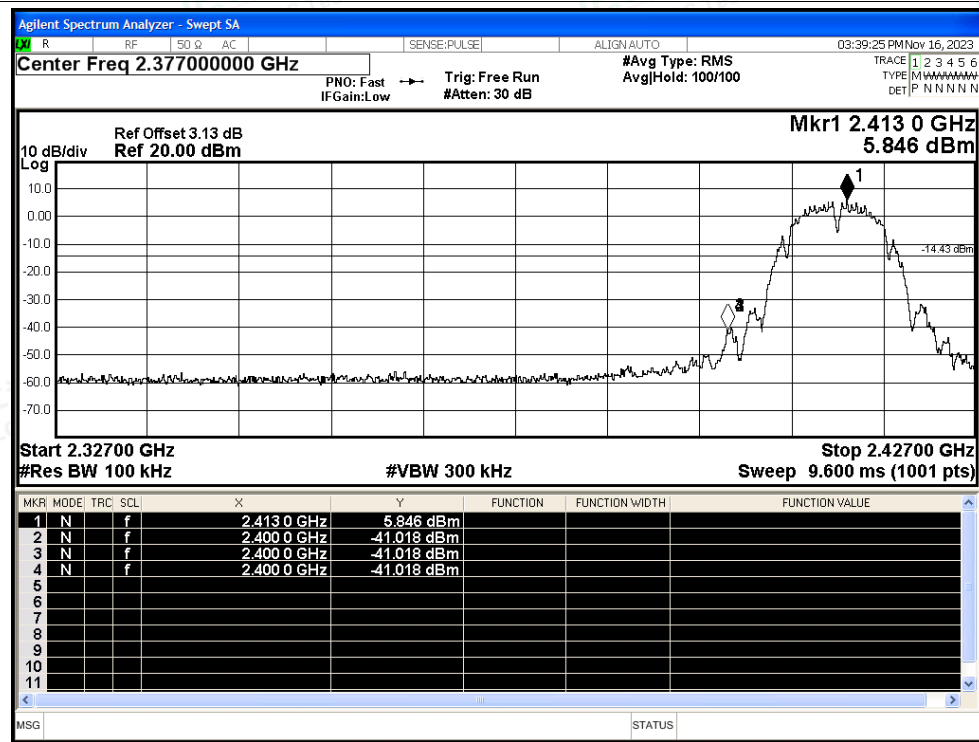


Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref



Band Edge NVNT b 2412MHz Ant0 Emission



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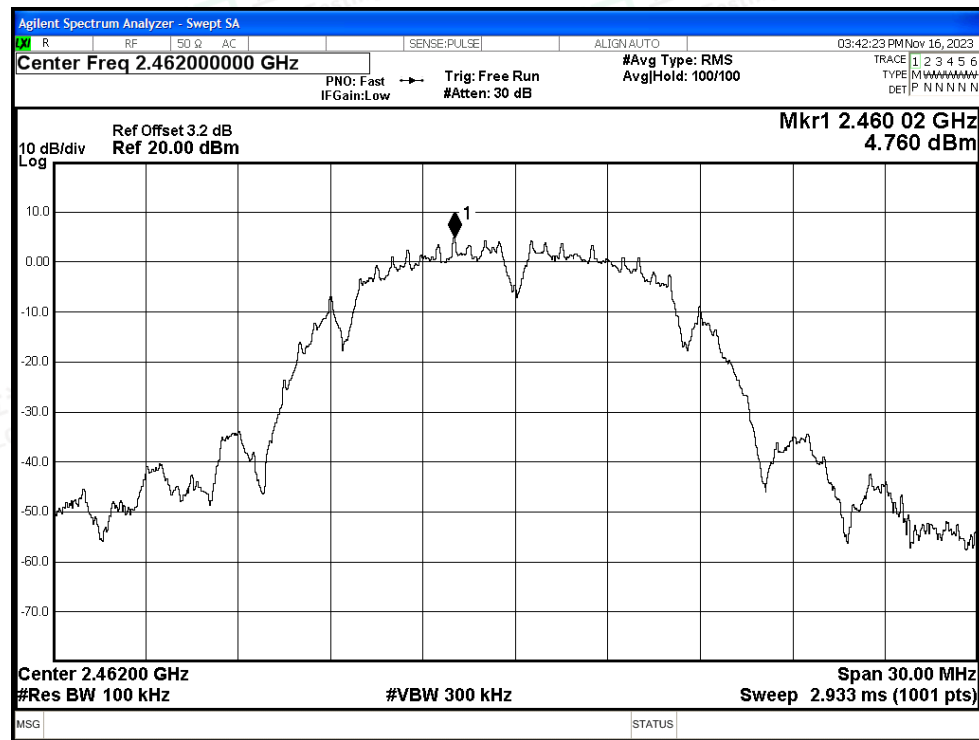
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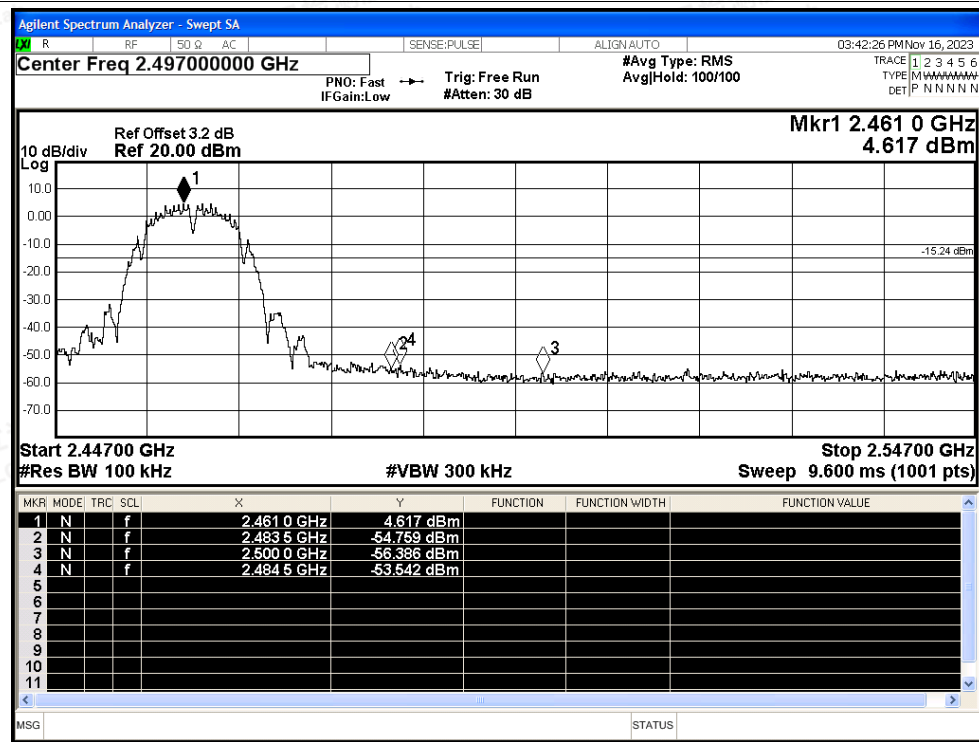
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Band Edge NVNT b 2462MHz Ant0 Ref



Band Edge NVNT b 2462MHz Ant0 Emission



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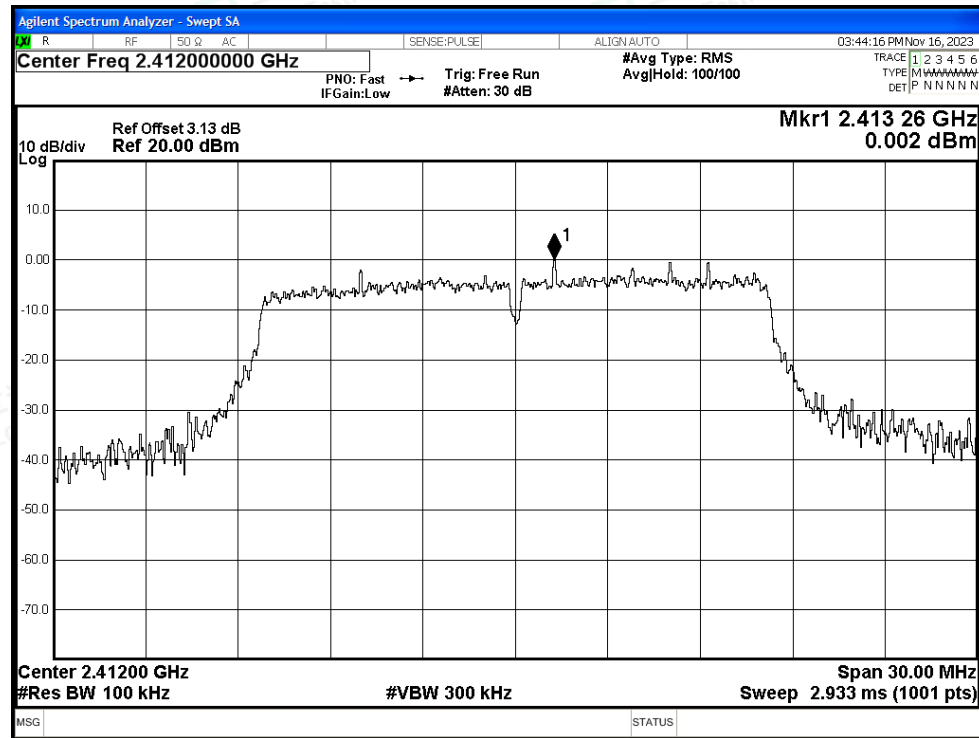
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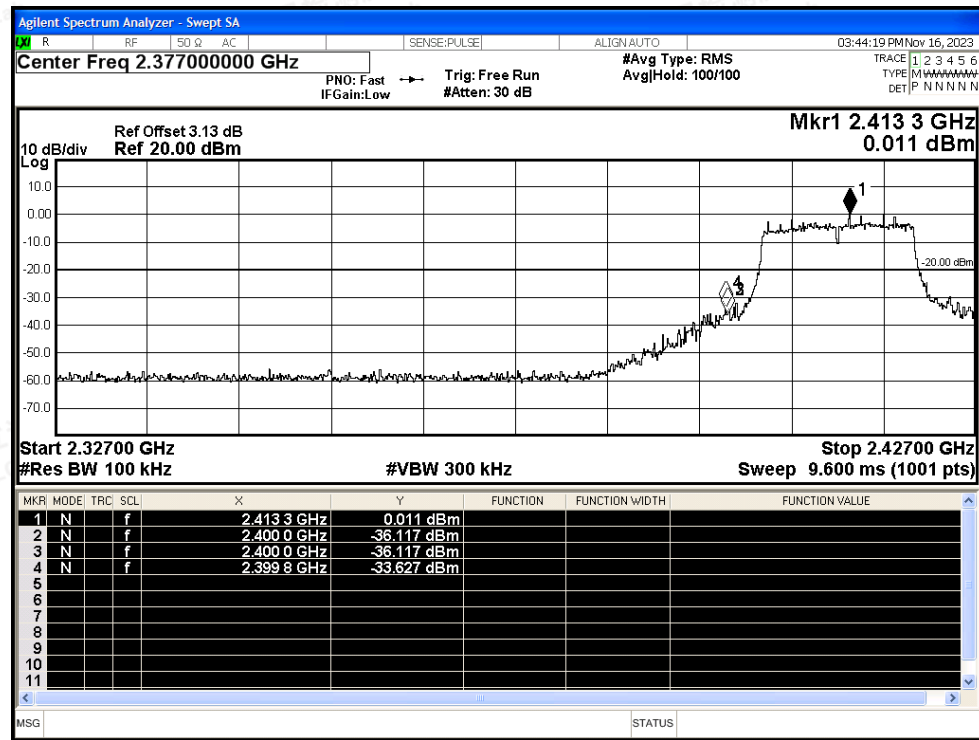
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Band Edge NVNT g 2412MHz Ant0 Ref



Band Edge NVNT g 2412MHz Ant0 Emission



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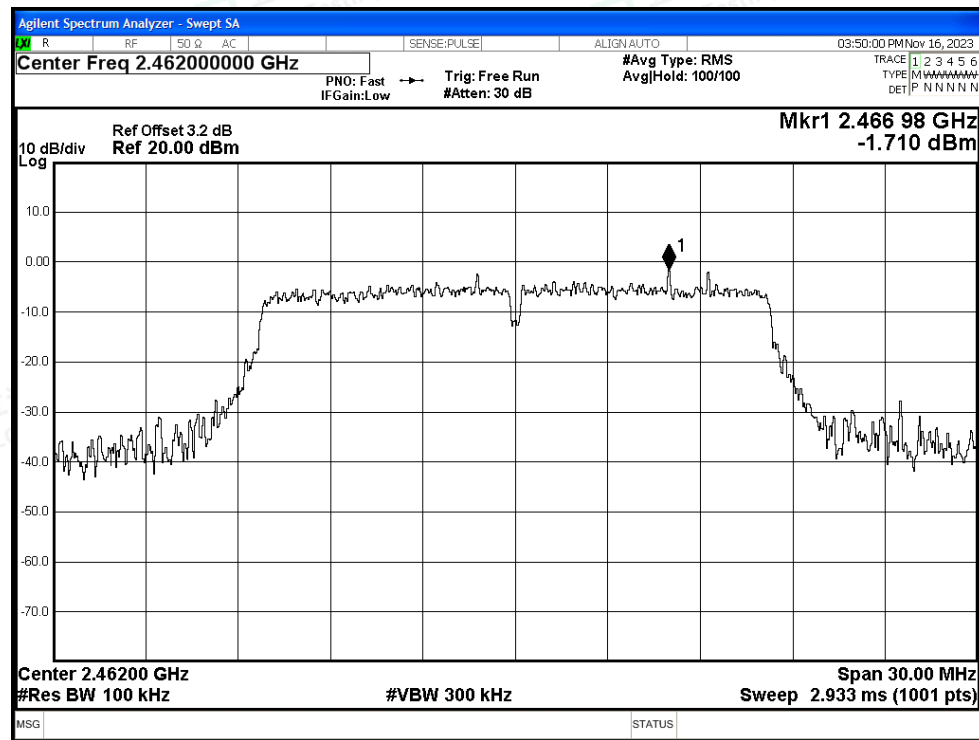
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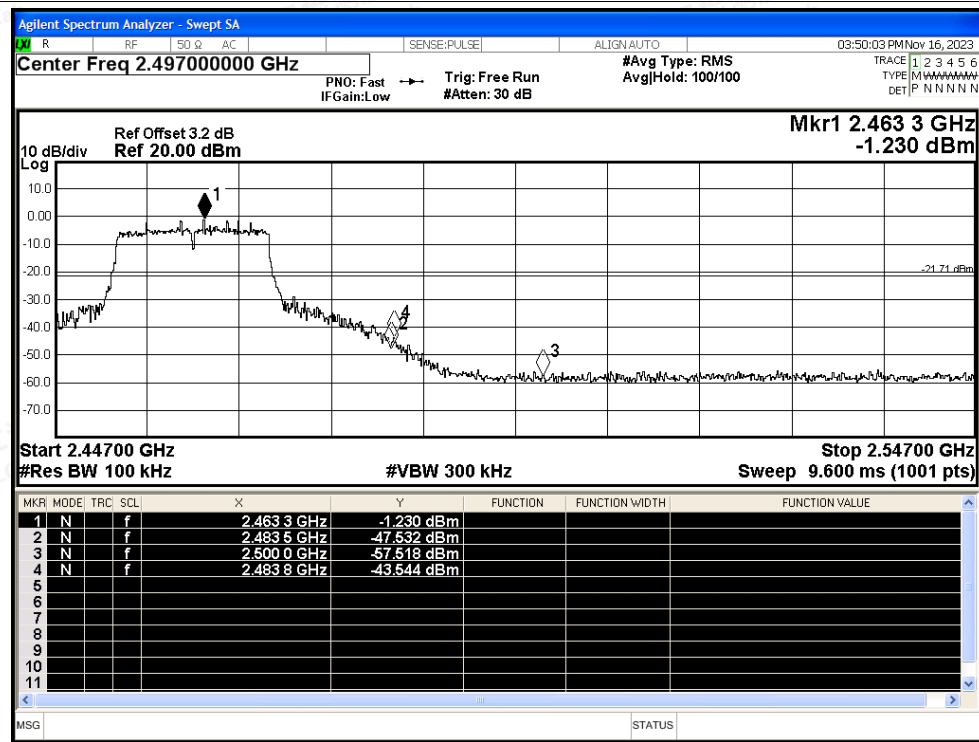
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Band Edge NVNT g 2462MHz Ant0 Ref



Band Edge NVNT g 2462MHz Ant0 Emission

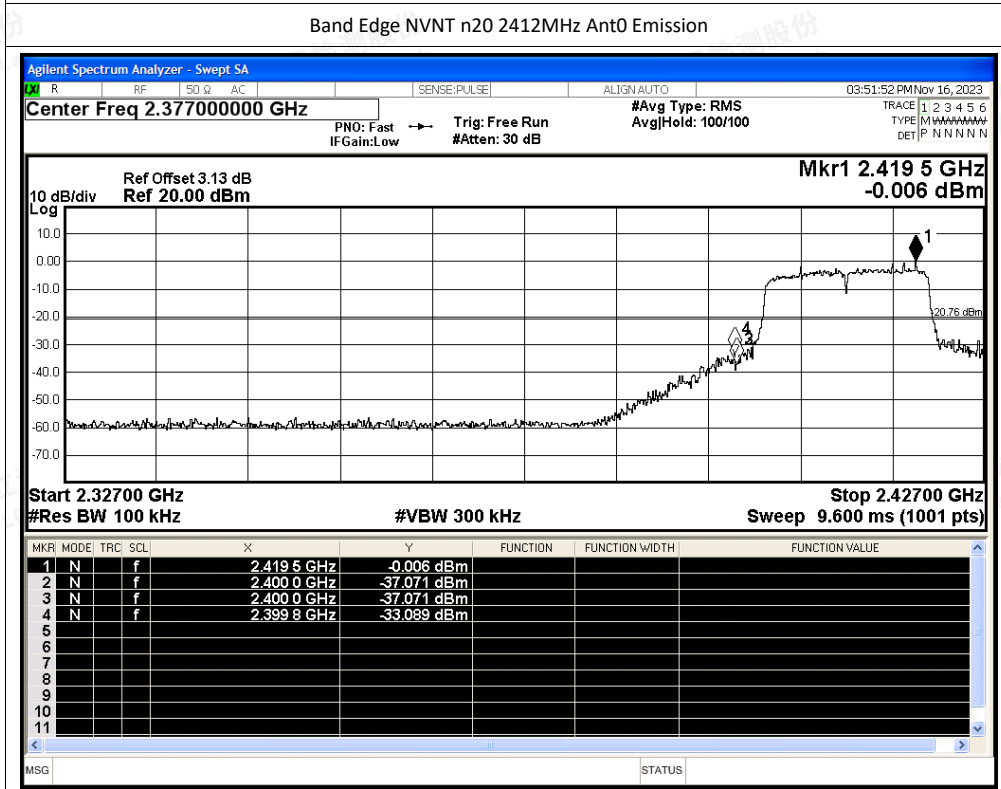
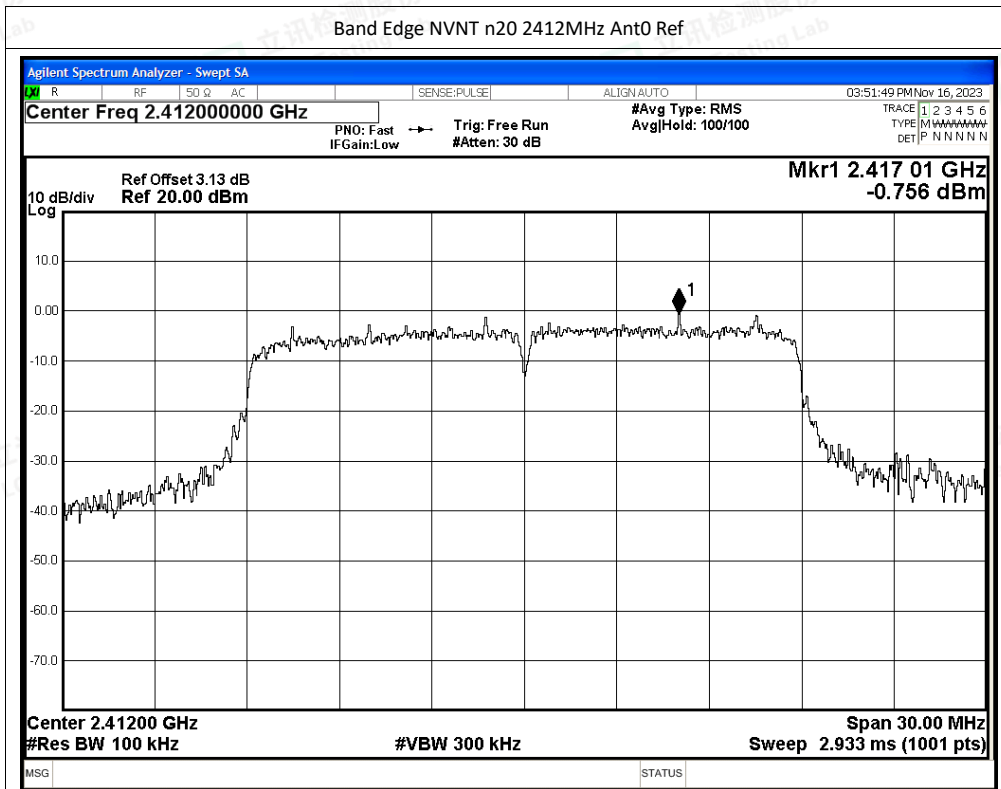


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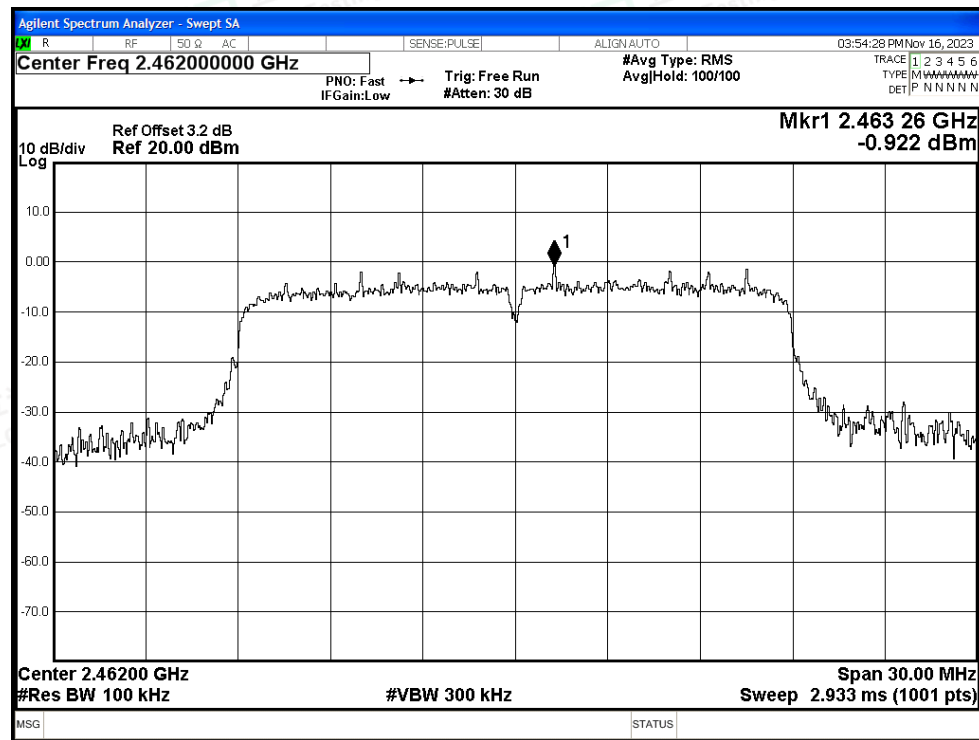
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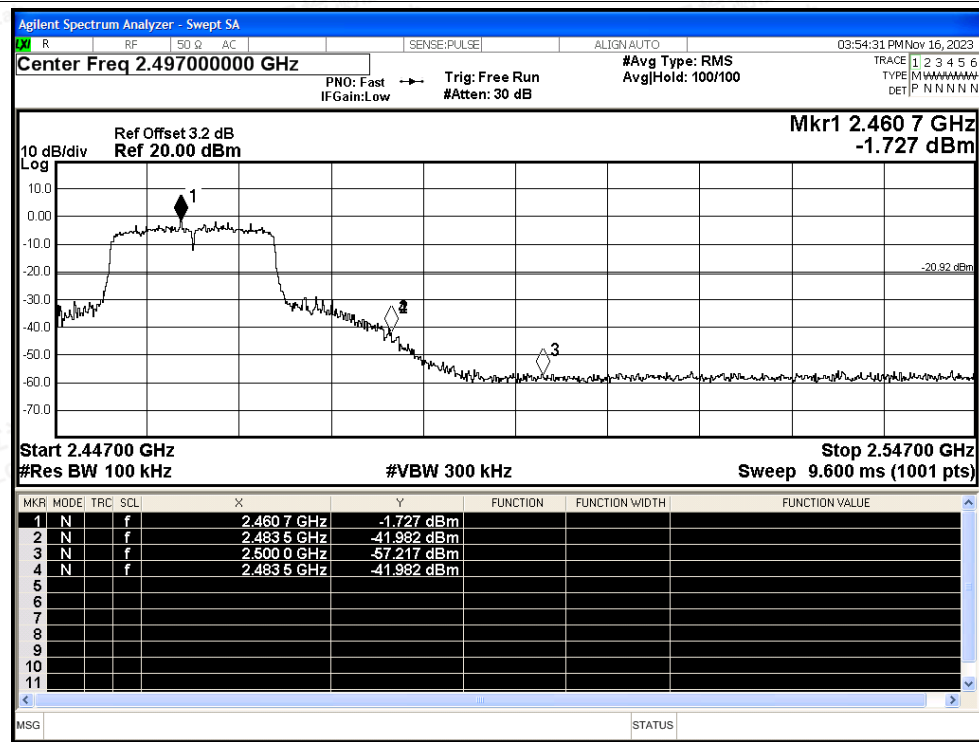
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Band Edge NVNT n20 2462MHz Ant0 Ref



Band Edge NVNT n20 2462MHz Ant0 Emission



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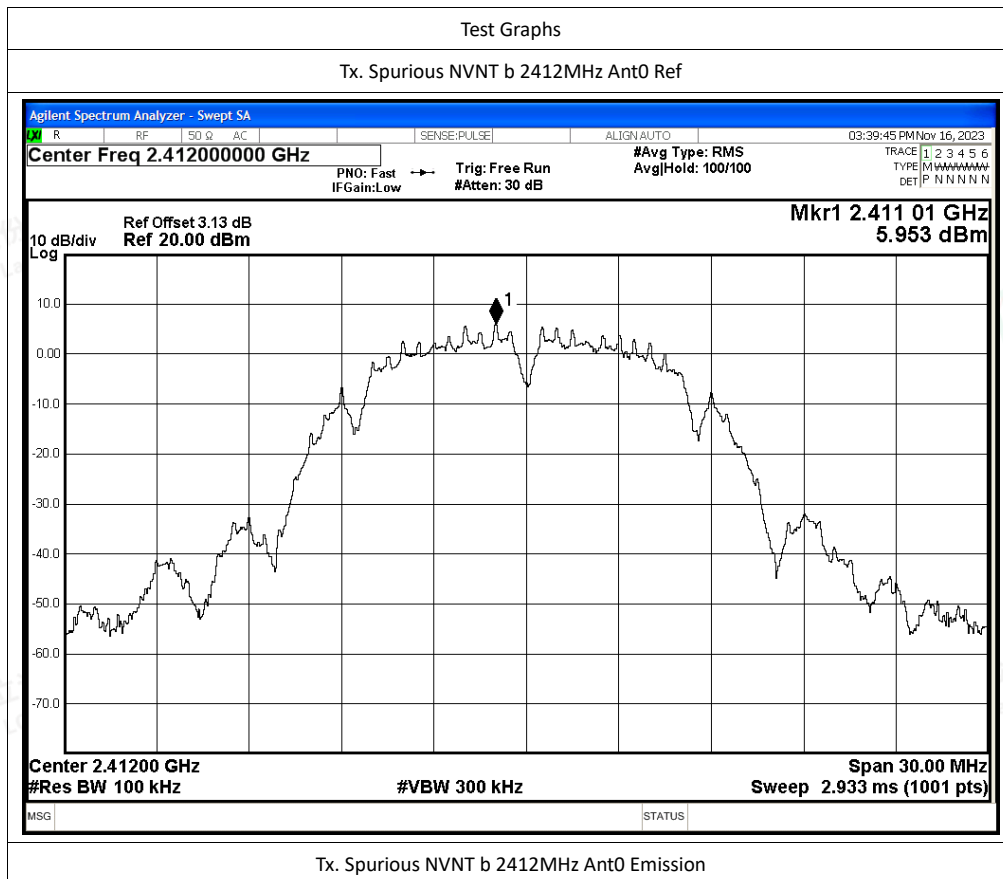
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A.5 Conducted Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-50.65	-20	Pass
NVNT	b	2437	Ant0	-51.37	-20	Pass
NVNT	b	2462	Ant0	-49.54	-20	Pass
NVNT	g	2412	Ant0	-45.45	-20	Pass
NVNT	g	2437	Ant0	-44.33	-20	Pass
NVNT	g	2462	Ant0	-43.94	-20	Pass
NVNT	n20	2412	Ant0	-44.67	-20	Pass
NVNT	n20	2437	Ant0	-44.62	-20	Pass
NVNT	n20	2462	Ant0	-43.74	-20	Pass

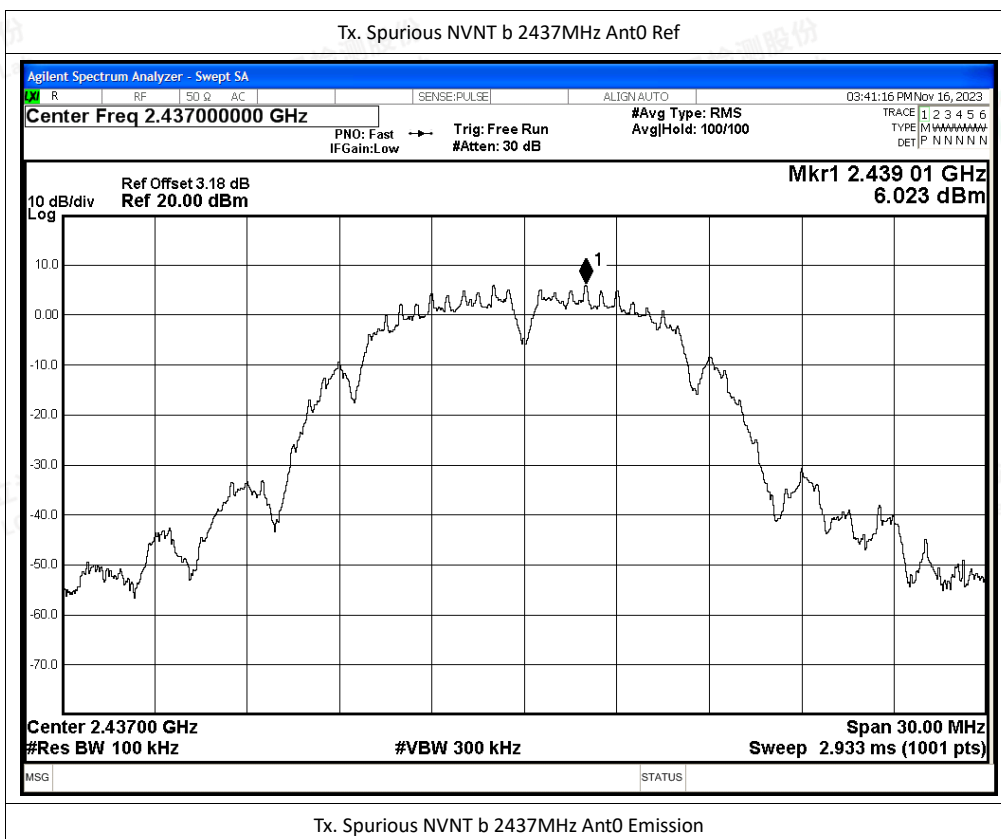
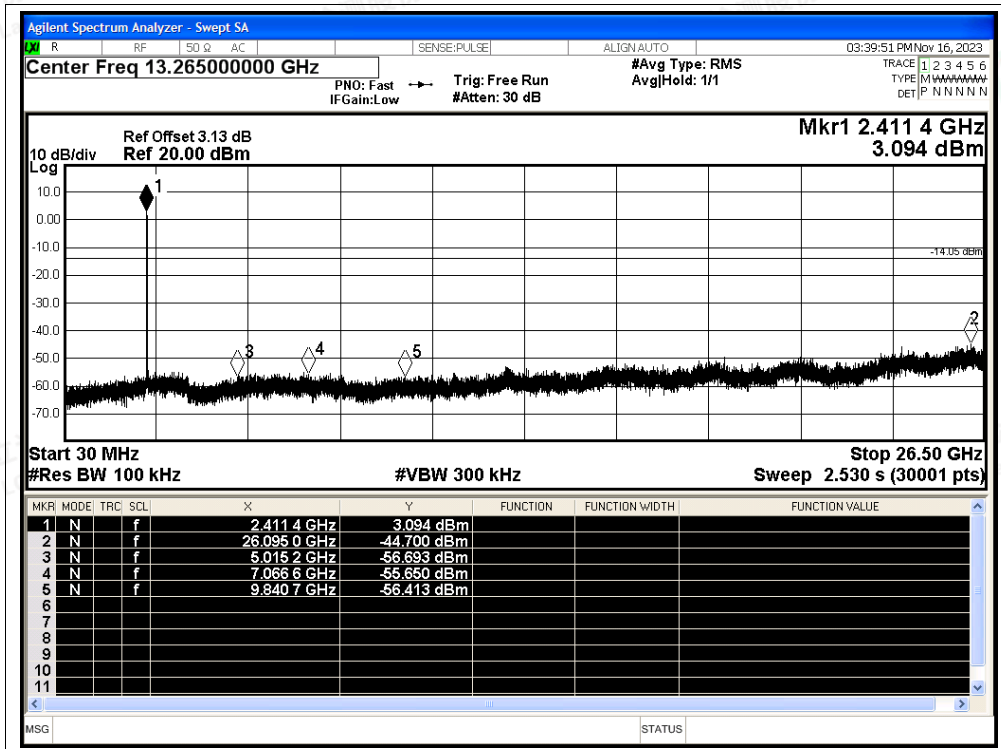


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Tx. Spurious NVNT b 2437MHz Ant0 Emission

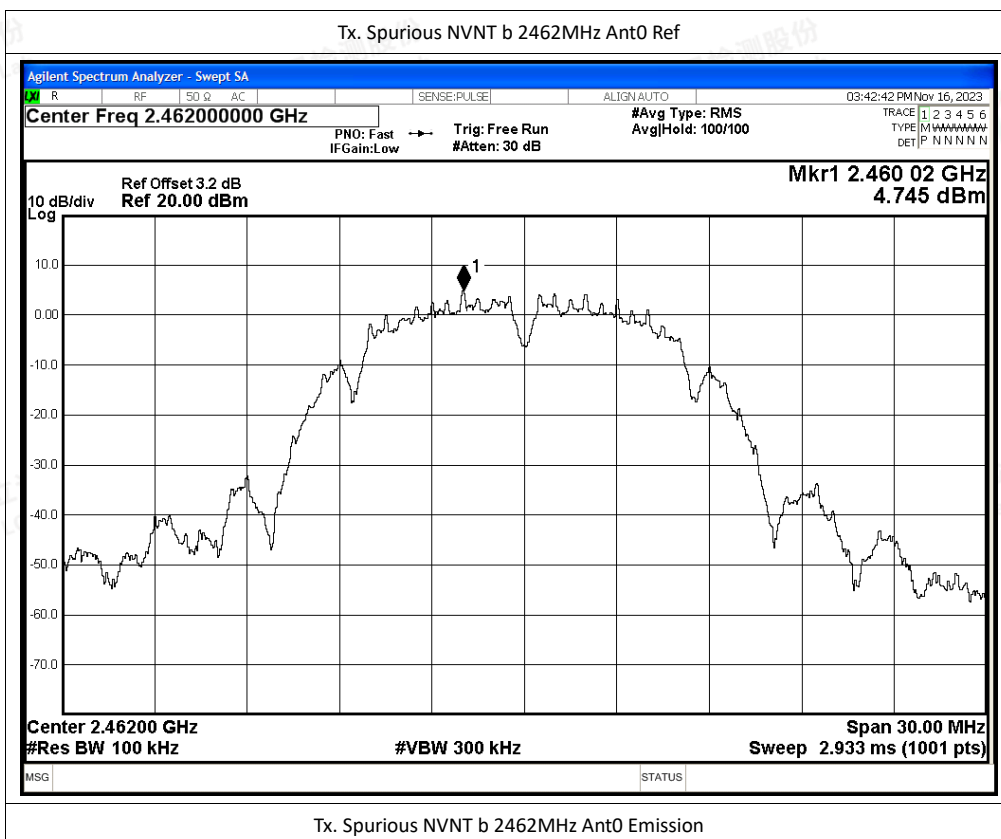
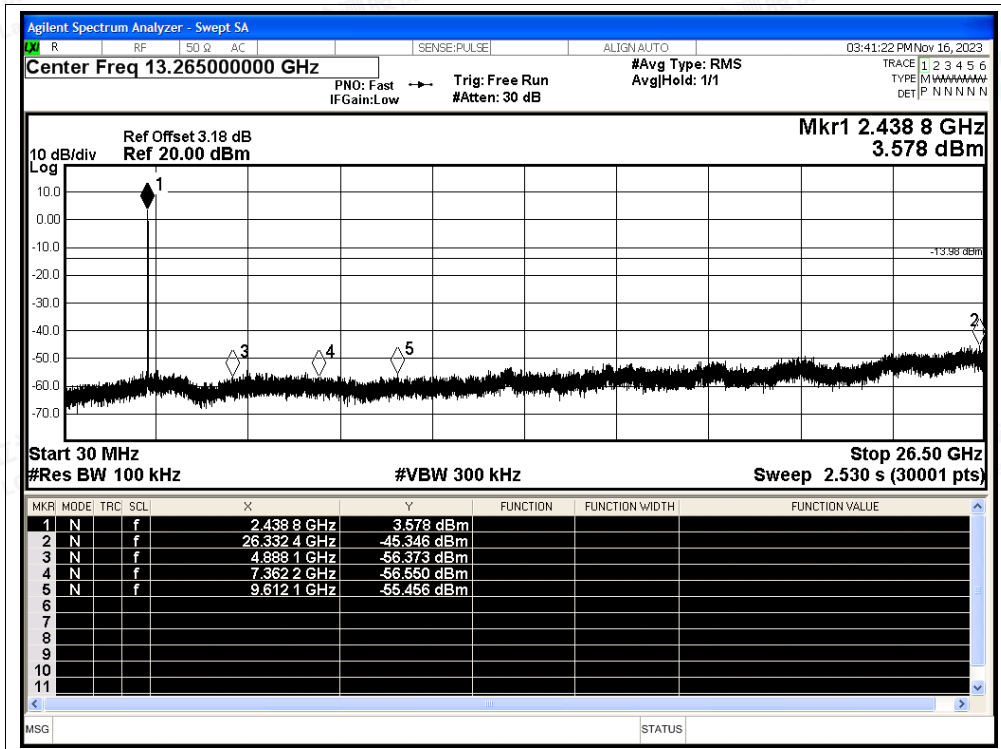


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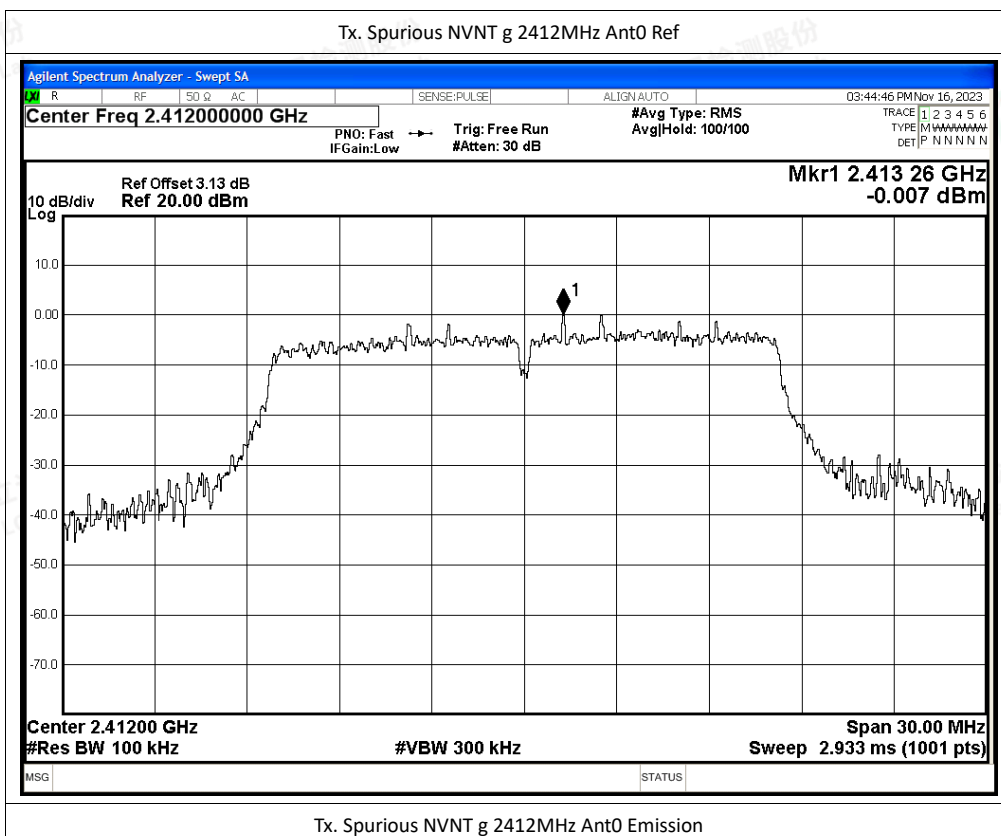
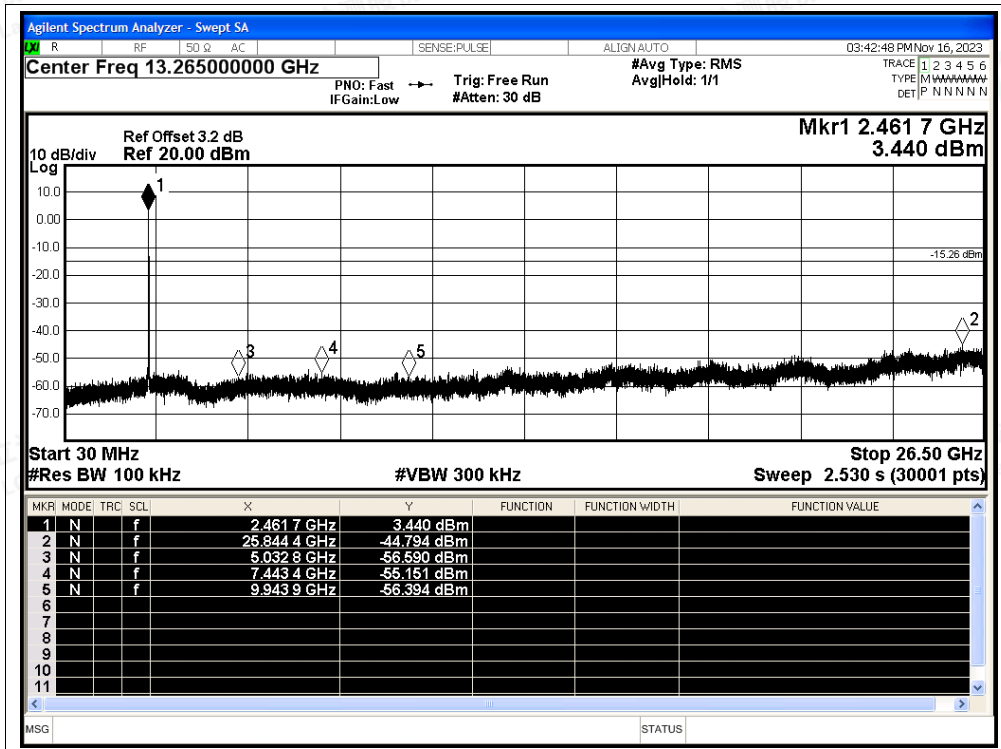


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Tx. Spurious NVNT g 2412MHz Ant0 Emission

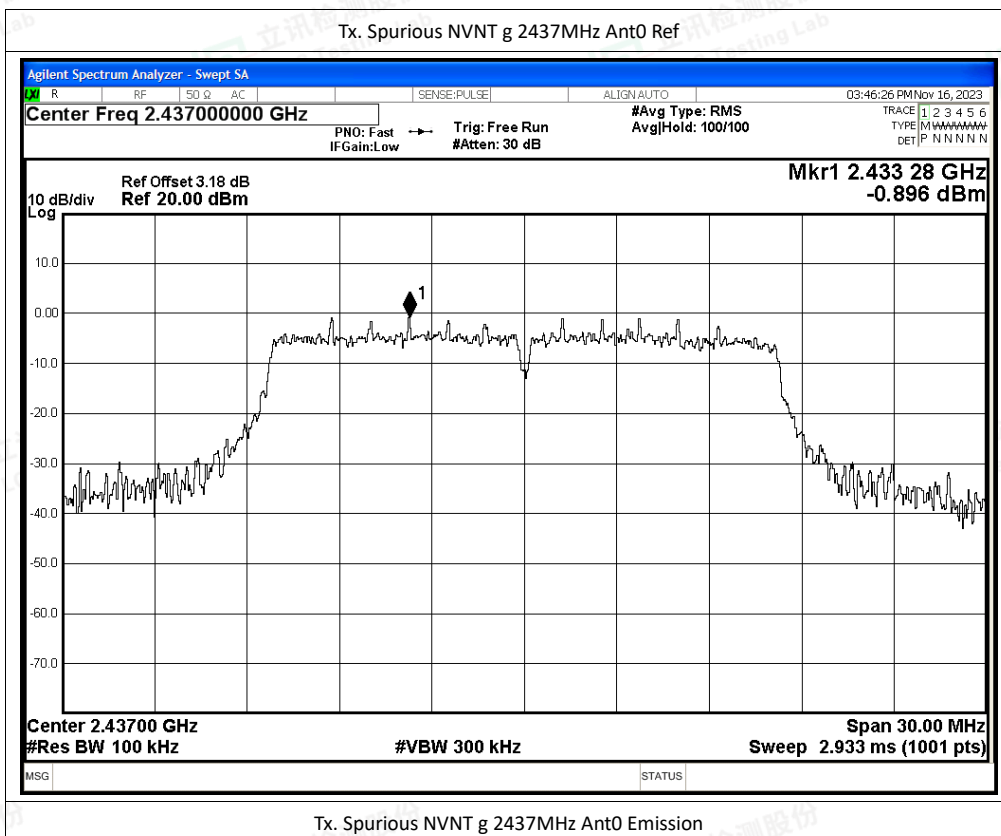
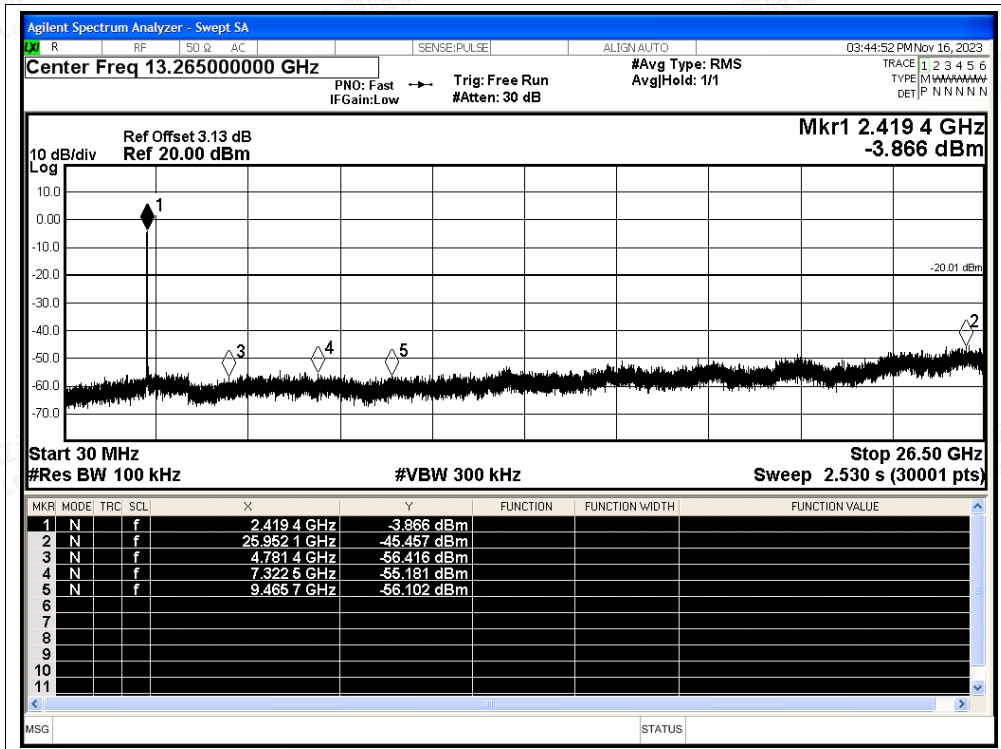


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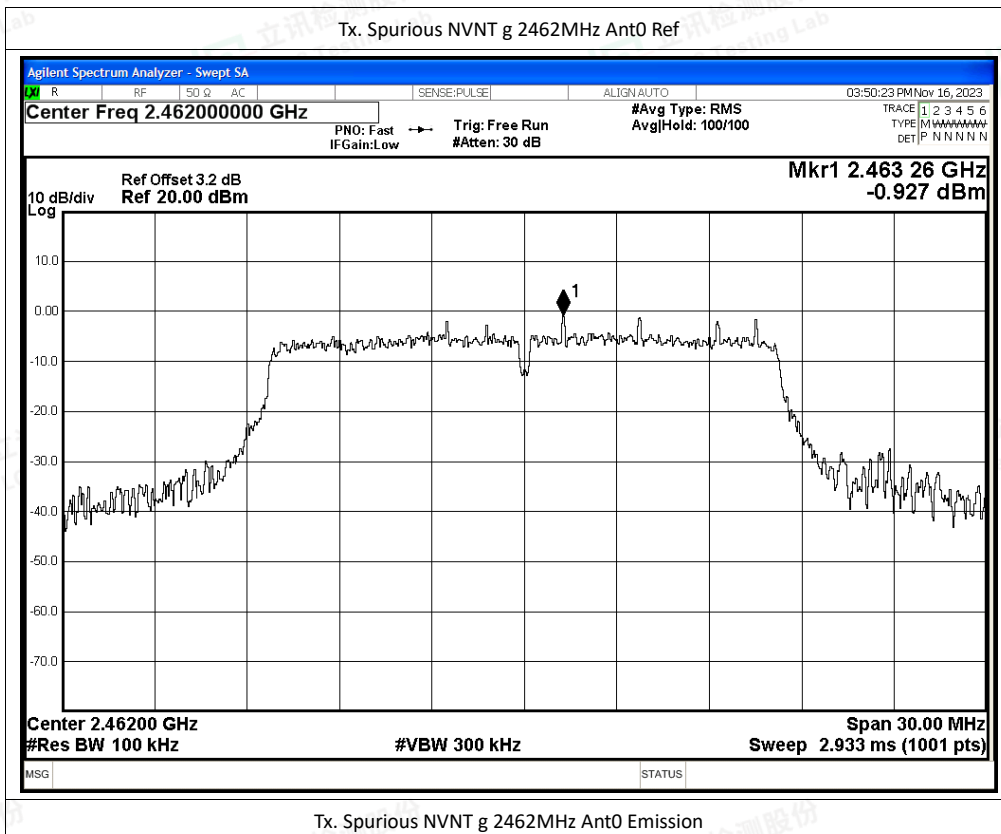
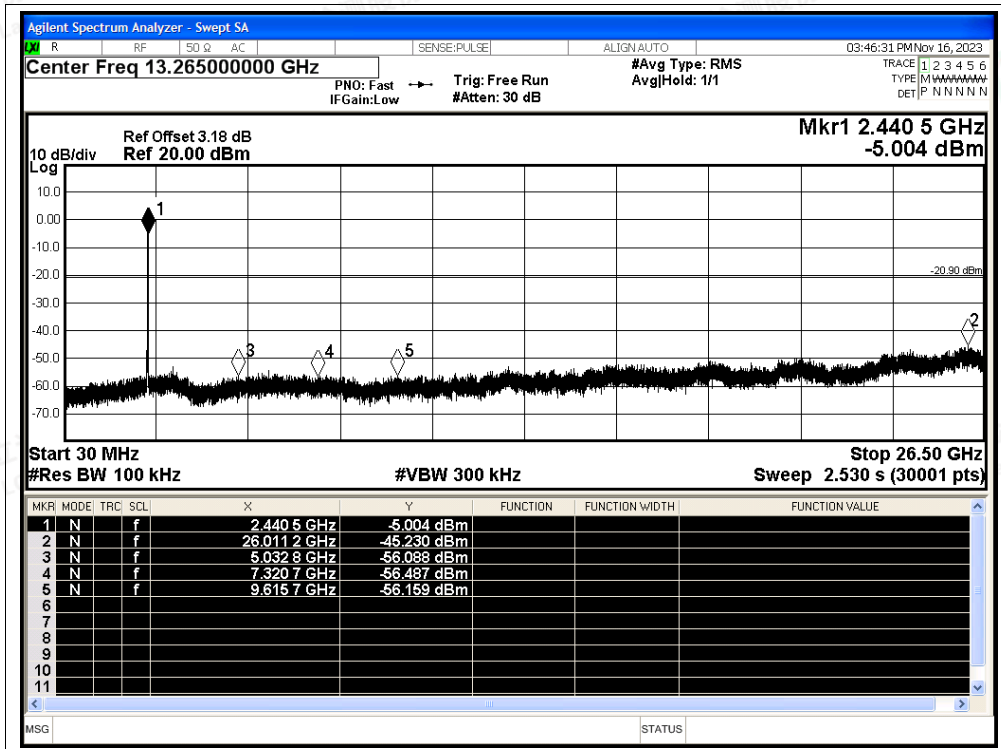


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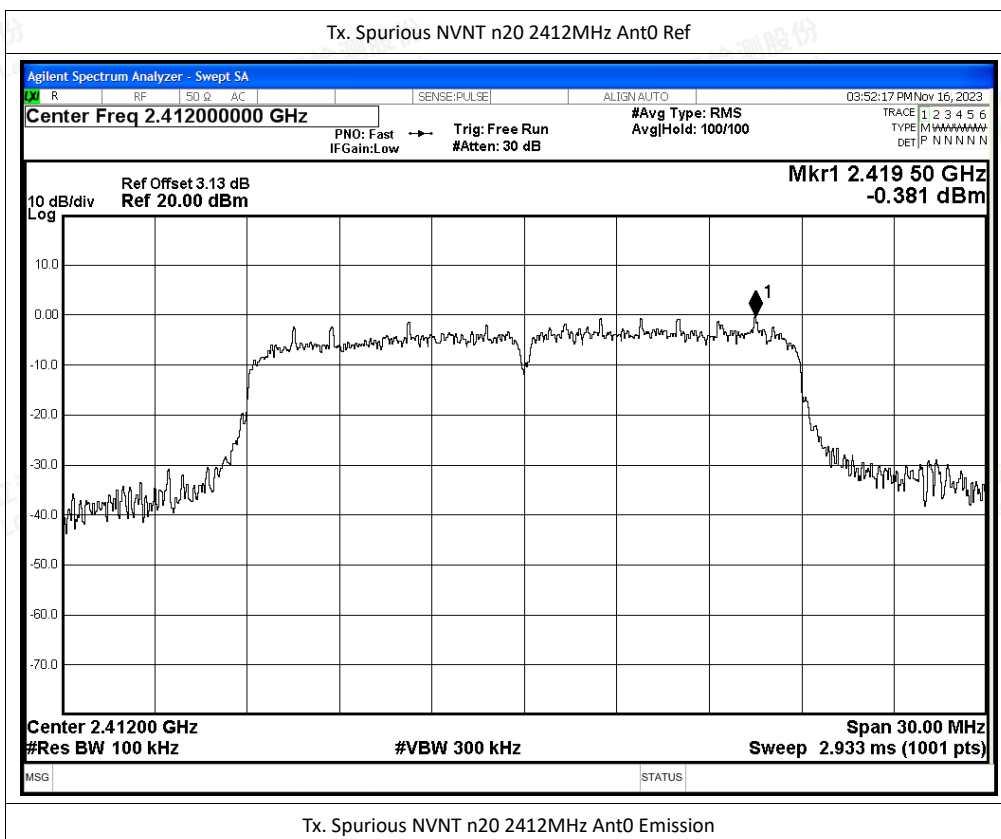
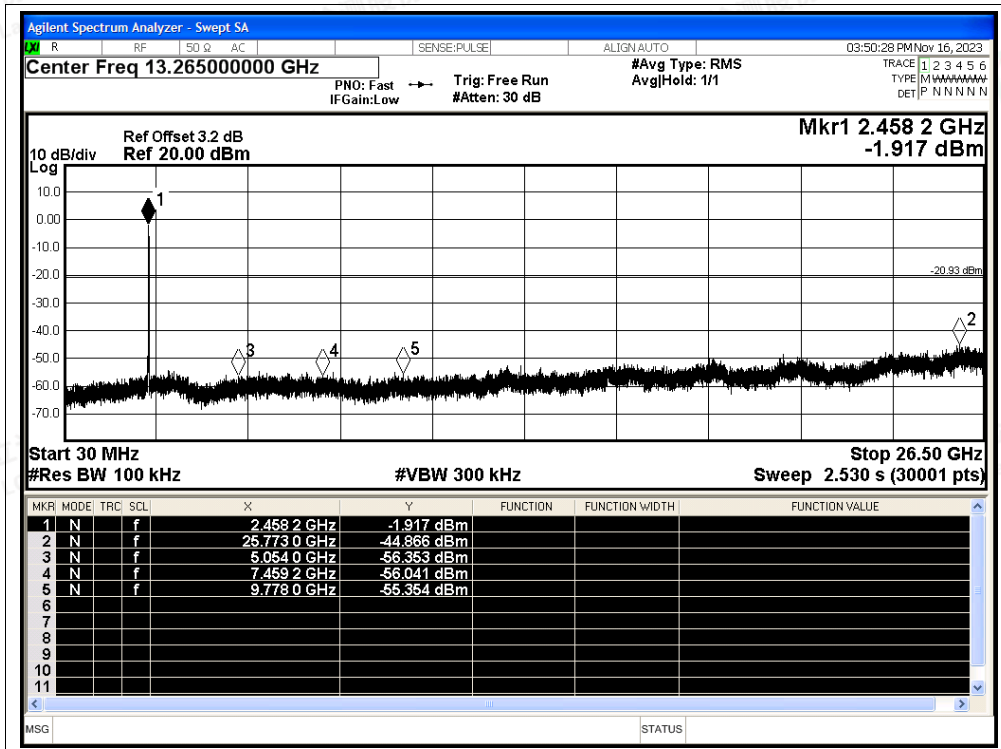


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Tx. Spurious NVNT n20 2412MHz Ant0 Emission

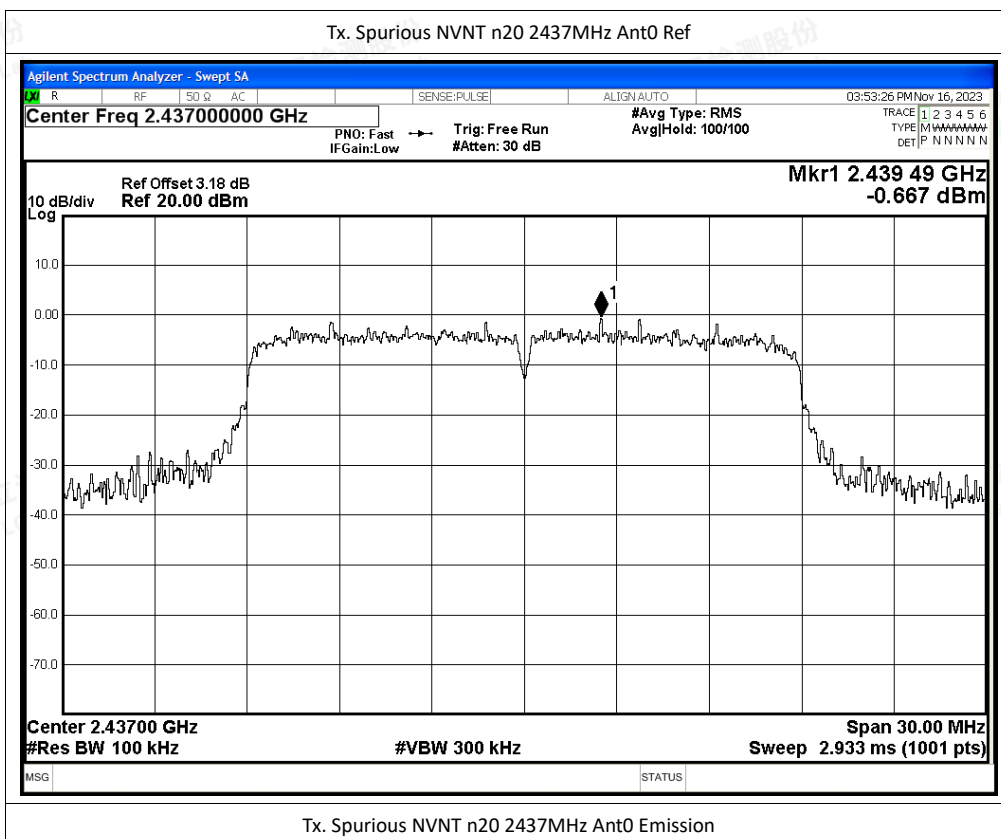
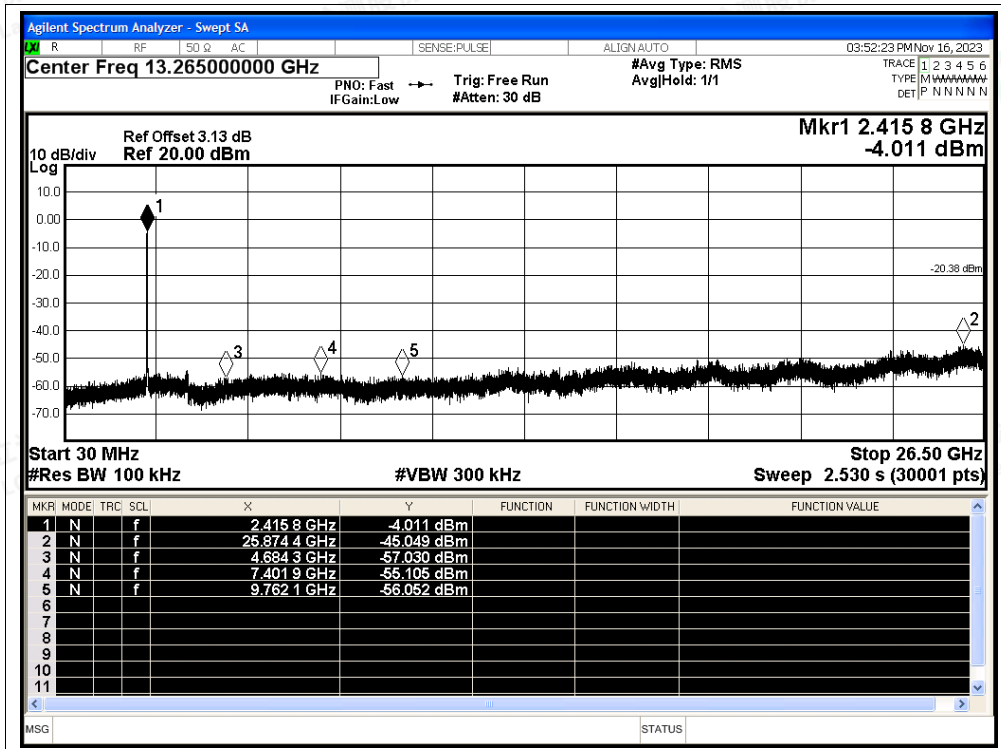


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Tx. Spurious NVNT n20 2437MHz Ant0 Emission

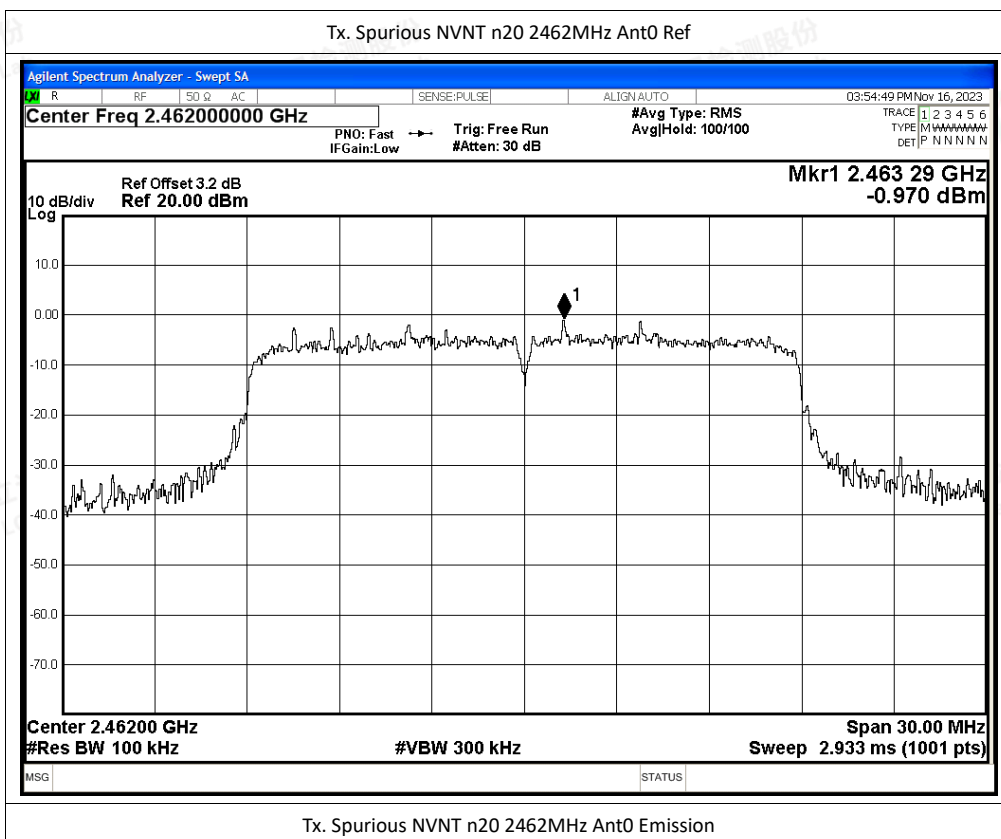
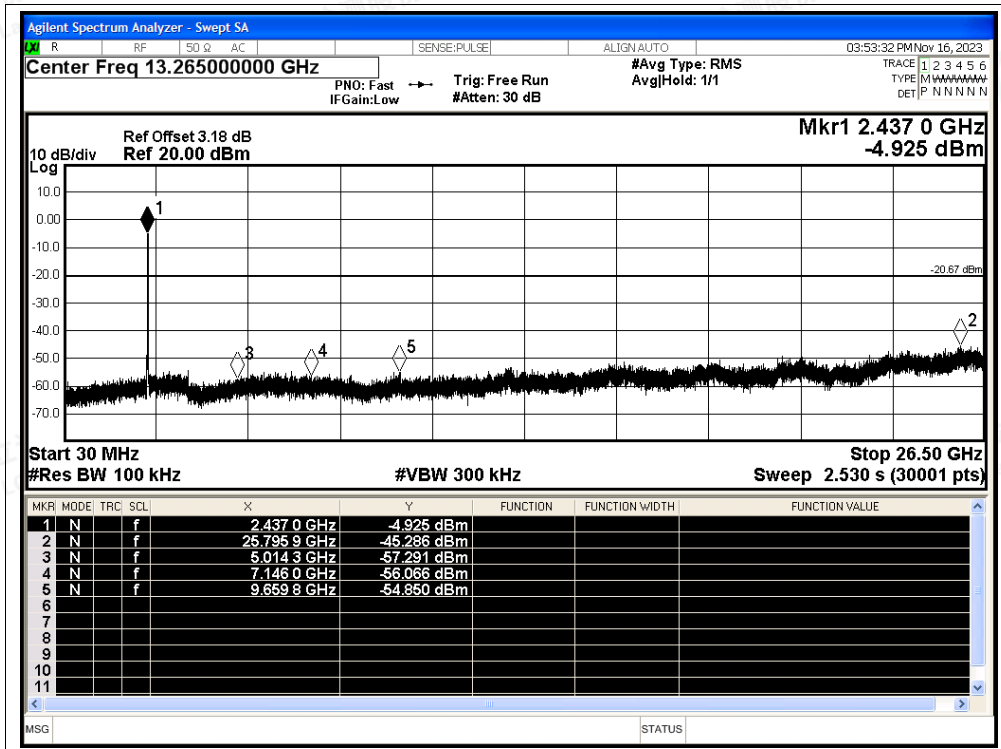


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Tx. Spurious NVNT n20 2462MHz Ant0 Emission

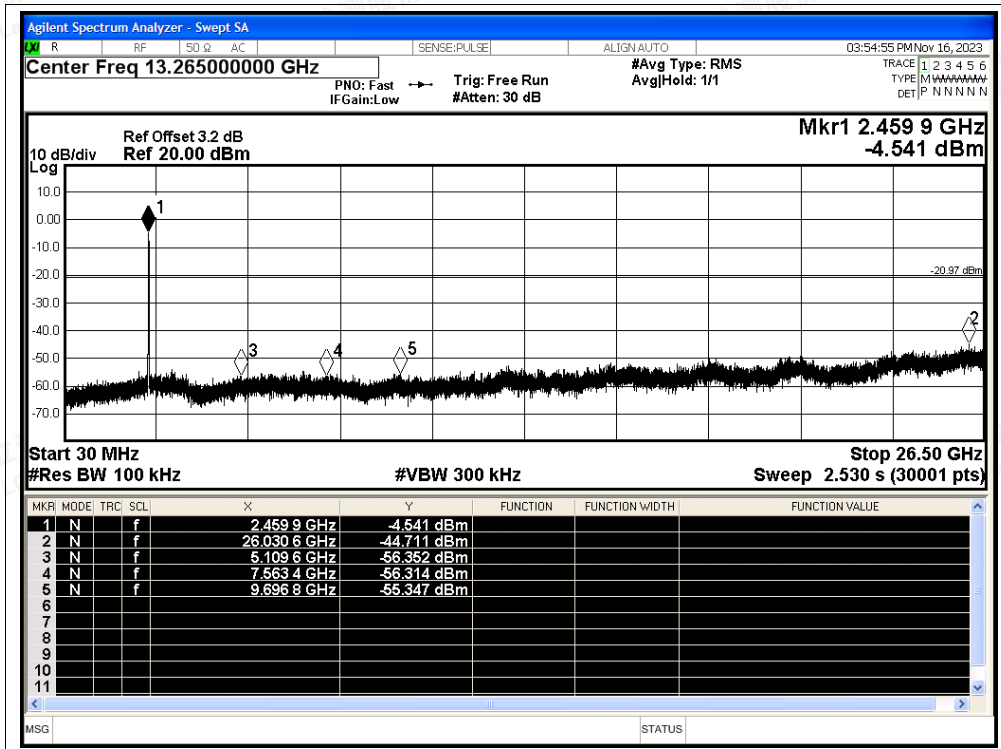


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A.6 Duty Cycle

Test Result

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant0	99.34	0	0.01
NVNT	b	2437	Ant0	99.34	0	0.01
NVNT	b	2462	Ant0	99.34	0	0.01
NVNT	g	2412	Ant0	95.75	0.19	0.72
NVNT	g	2437	Ant0	95.75	0.19	0.72
NVNT	g	2462	Ant0	95.75	0.19	0.72
NVNT	n20	2412	Ant0	95.02	0.22	0.85
NVNT	n20	2437	Ant0	94.86	0.23	0.85
NVNT	n20	2462	Ant0	95.02	0.22	0.85

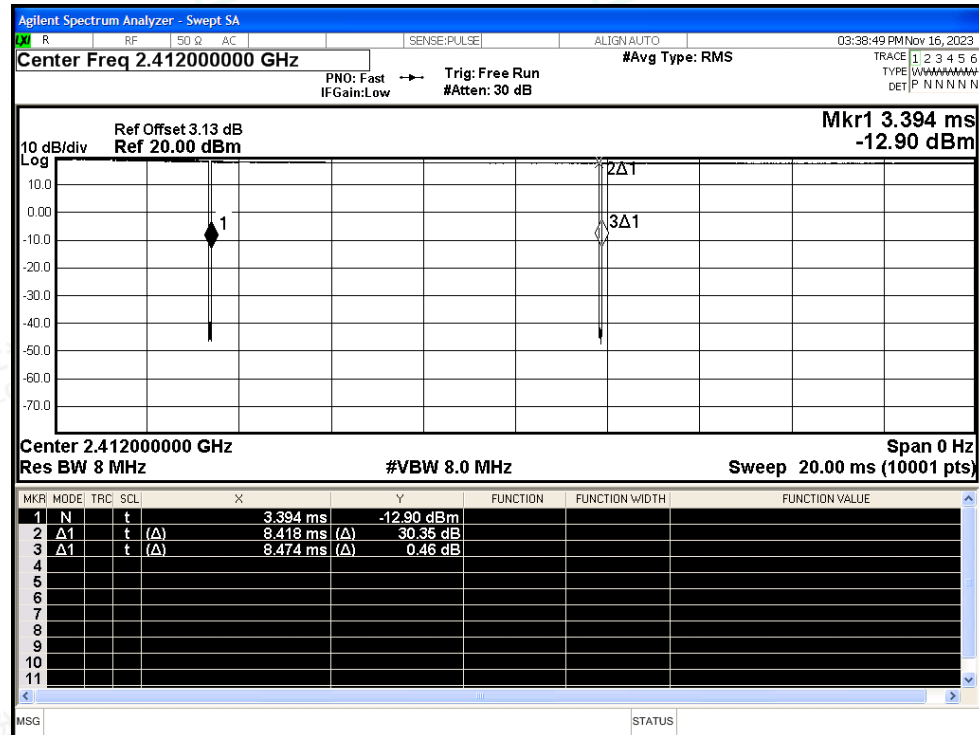


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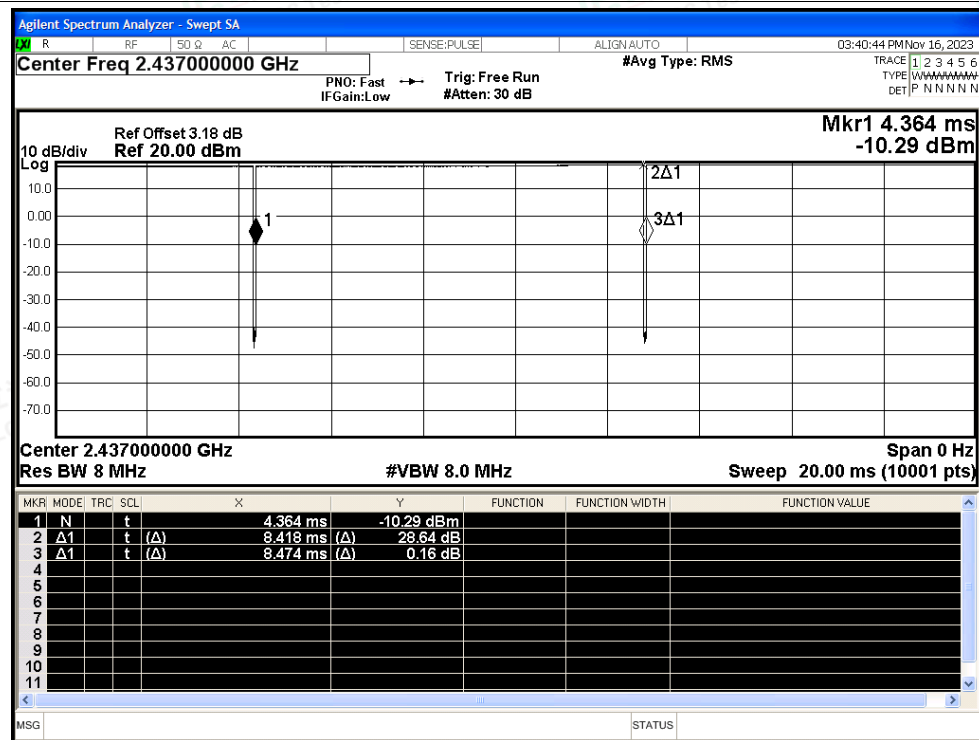


Test Graphs

Duty Cycle NVNT b 2412MHz Ant0



Duty Cycle NVNT b 2437MHz Ant0

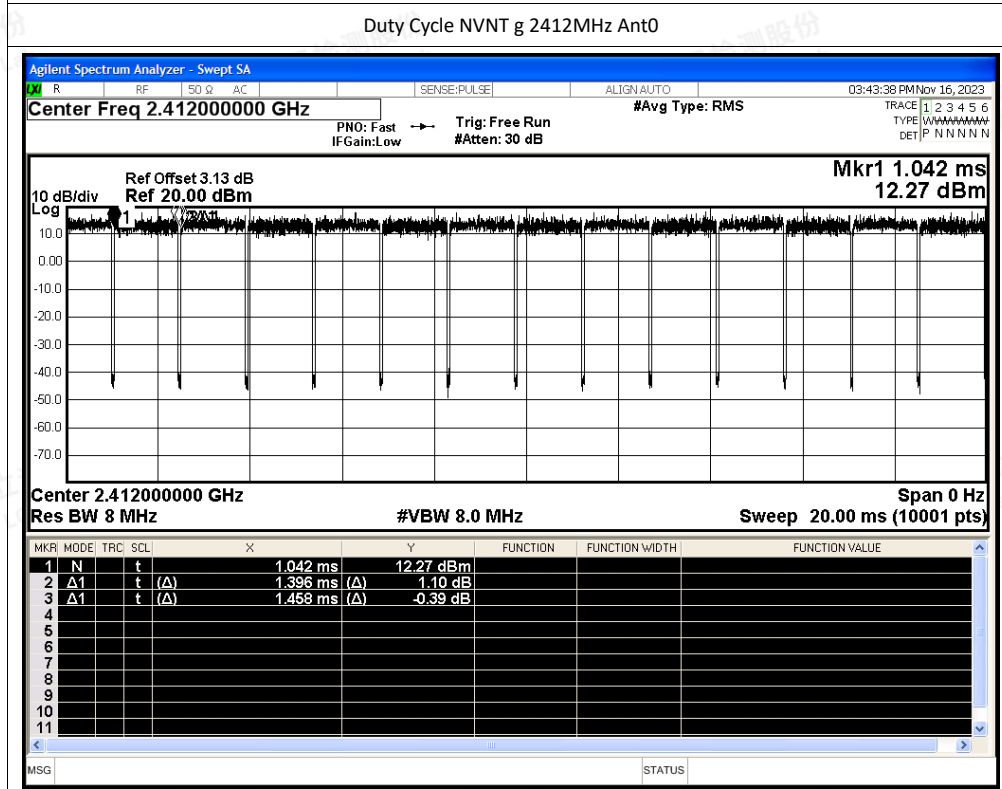
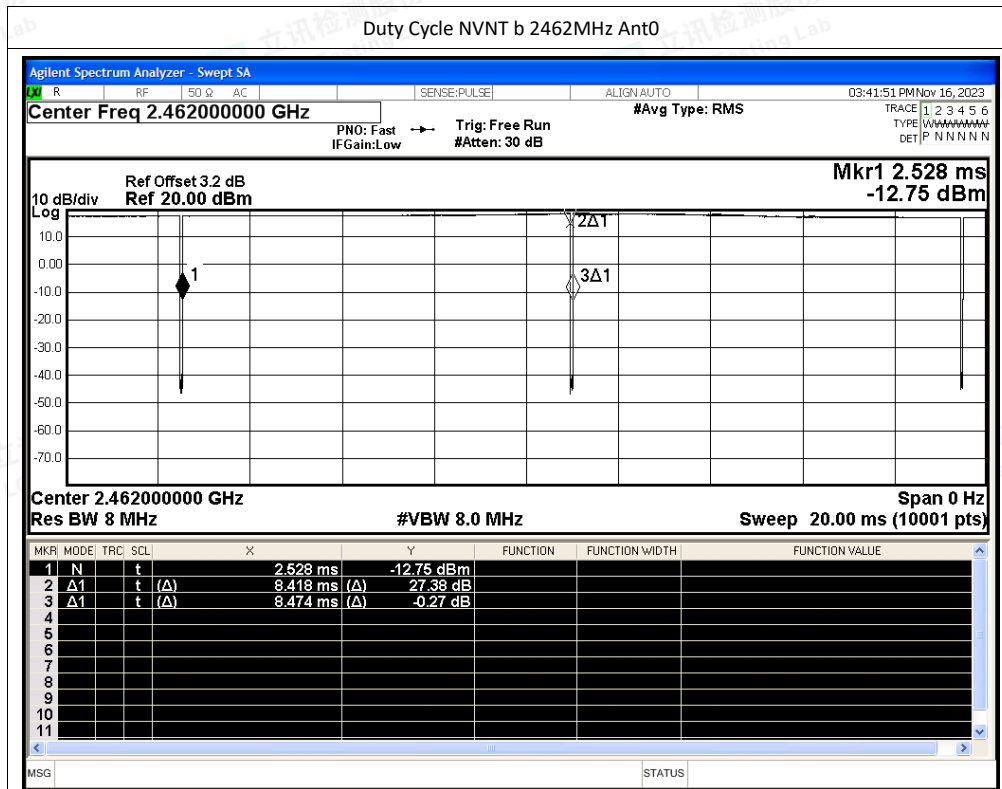


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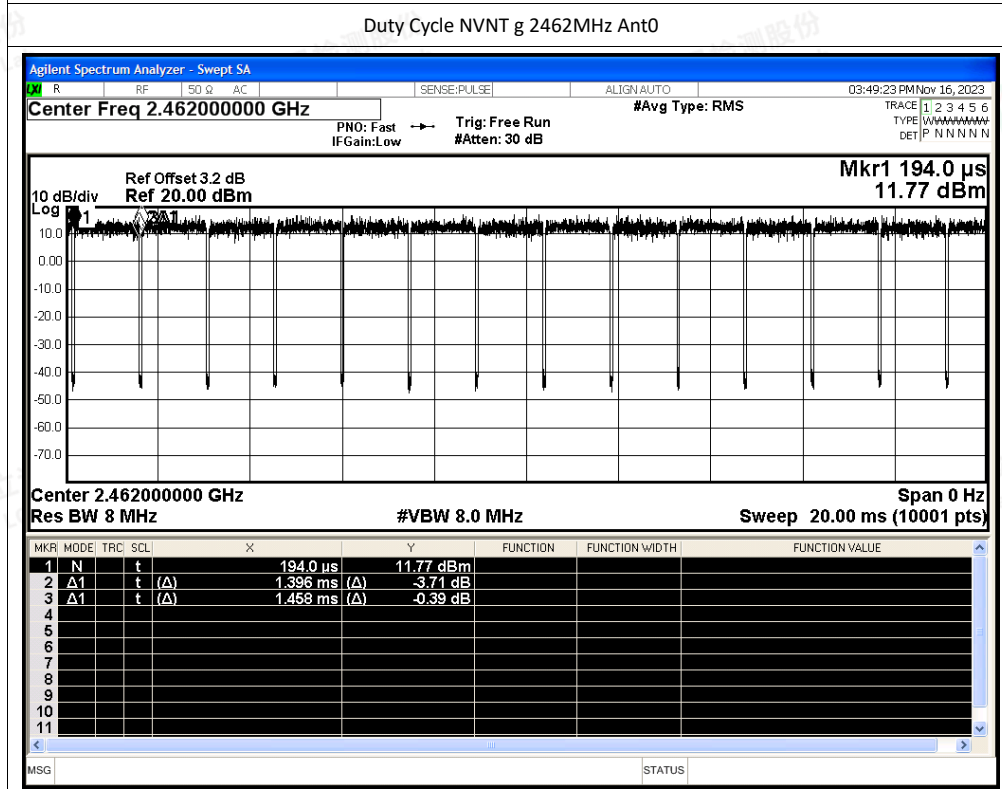
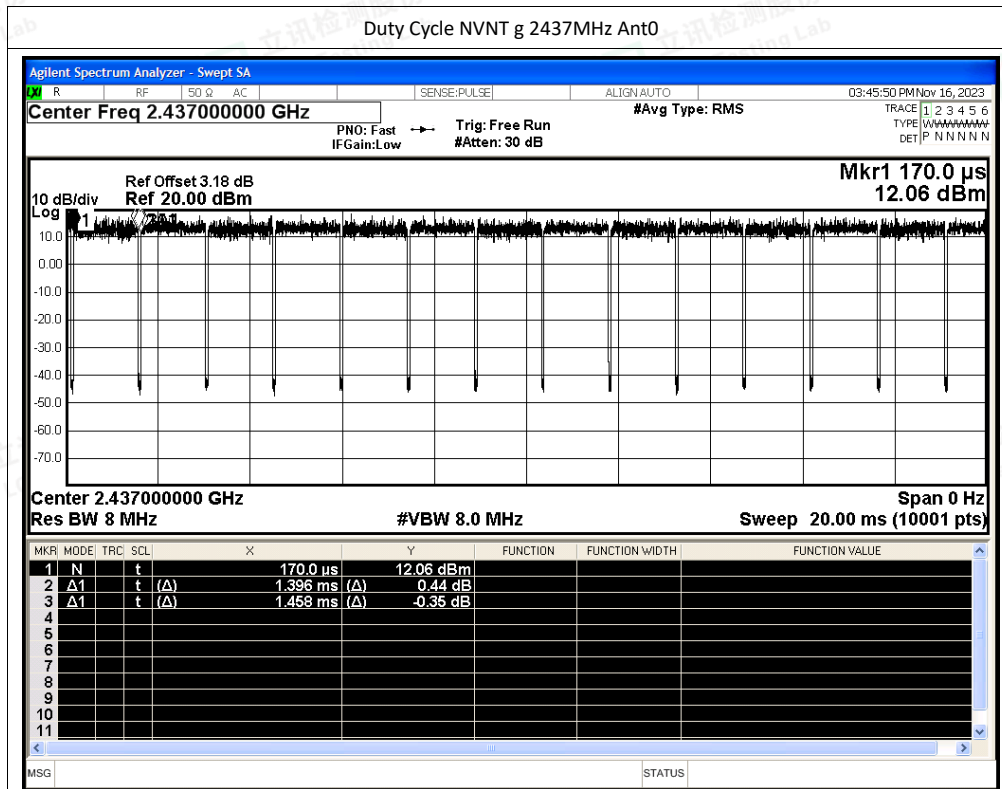


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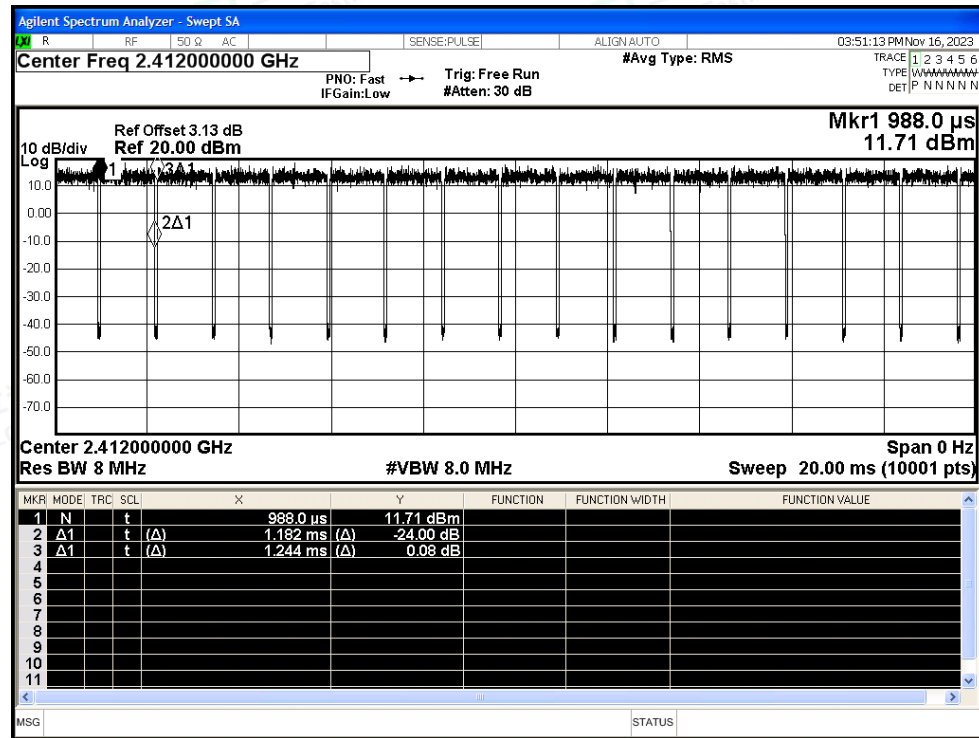
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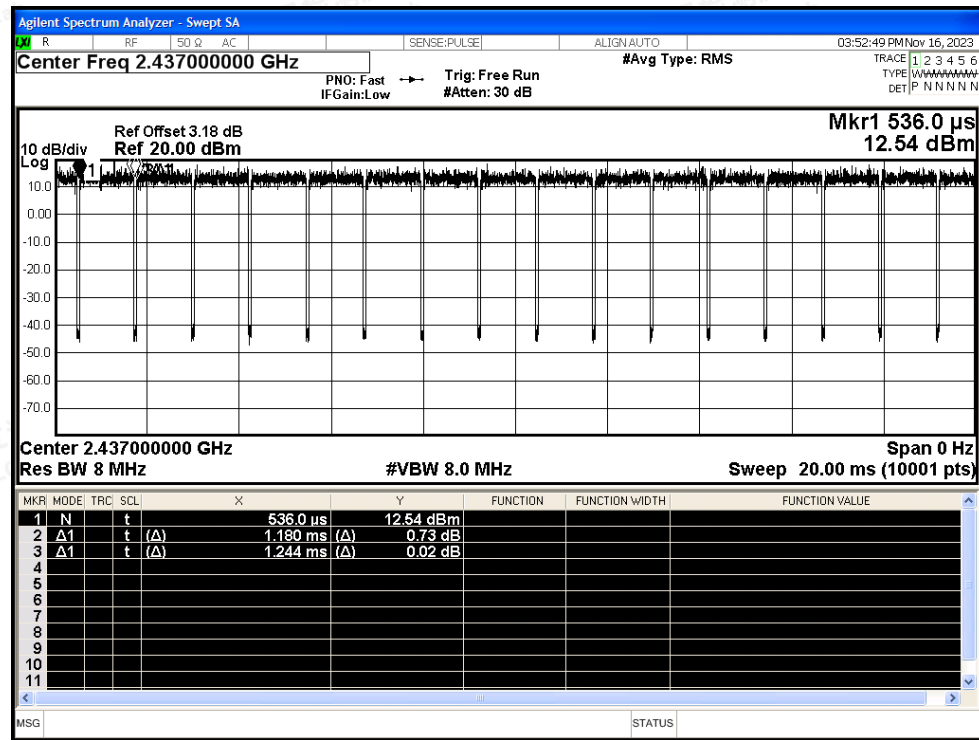
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Duty Cycle NVNT n20 2412MHz Ant0



Duty Cycle NVNT n20 2437MHz Ant0

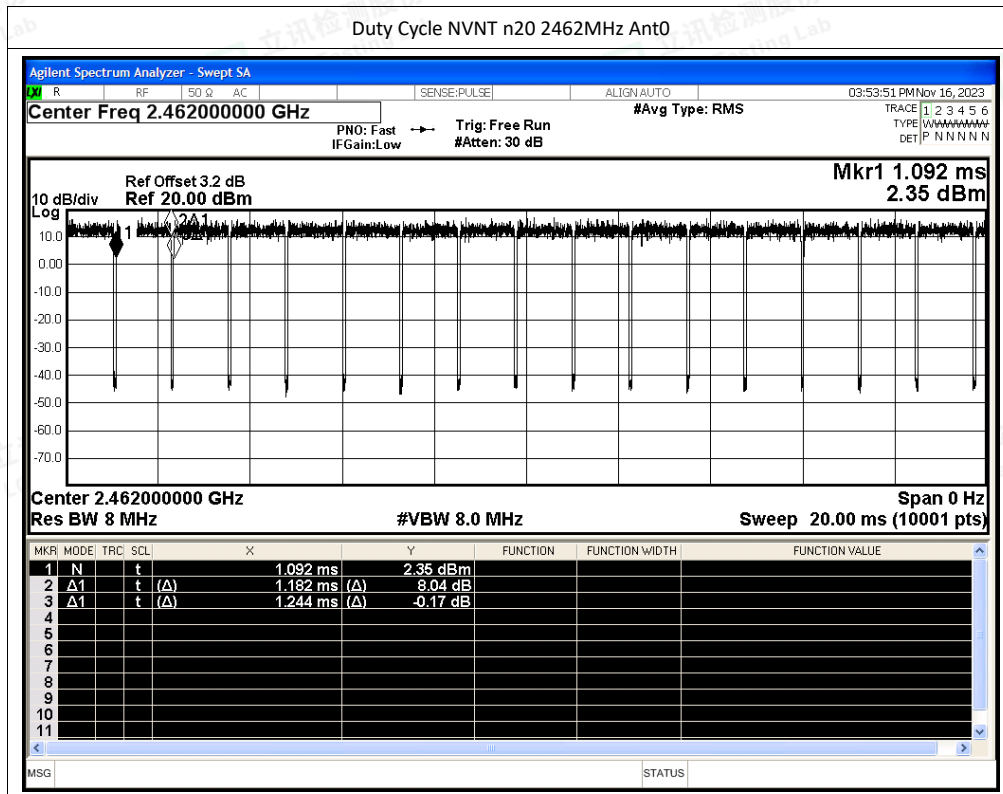


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A.7 Emissions in Restricted Bands

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant0	2310	-49.71	2.44	47.99	Peak	74	Pass
NVNT	b	2412	Ant0	2310	-56.93	2.44	40.77	Average	54	Pass
NVNT	b	2412	Ant0	2388.858	-45.16	2.44	52.54	Peak	74	Pass
NVNT	b	2412	Ant0	2389.443	-53.89	2.44	43.81	Average	54	Pass
NVNT	b	2412	Ant0	2390	-46.09	2.44	51.61	Peak	74	Pass
NVNT	b	2412	Ant0	2390	-54.21	2.44	43.49	Average	54	Pass
NVNT	b	2462	Ant0	2483.5	-46.27	2.44	51.43	Peak	74	Pass
NVNT	b	2462	Ant0	2483.5	-53.88	2.44	43.82	Average	54	Pass
NVNT	b	2462	Ant0	2487.333	-40.1	2.44	57.6	Peak	74	Pass
NVNT	b	2462	Ant0	2484.577	-53.6	2.44	44.1	Average	54	Pass
NVNT	b	2462	Ant0	2500	-48.65	2.44	49.05	Peak	74	Pass
NVNT	b	2462	Ant0	2500	-56.26	2.44	41.44	Average	54	Pass
NVNT	g	2412	Ant0	2310	-47.12	2.44	50.58	Peak	74	Pass
NVNT	g	2412	Ant0	2310	-56.58	2.44	41.12	Average	54	Pass
NVNT	g	2412	Ant0	2389.092	-39.91	2.44	57.79	Peak	74	Pass
NVNT	g	2412	Ant0	2389.794	-51.32	2.44	46.38	Average	54	Pass
NVNT	g	2412	Ant0	2390	-39.87	2.44	57.83	Peak	74	Pass
NVNT	g	2412	Ant0	2390	-51.18	2.44	46.52	Average	54	Pass
NVNT	g	2462	Ant0	2483.5	-35.14	2.44	62.56	Peak	74	Pass
NVNT	g	2462	Ant0	2483.5	-45.67	2.44	52.03	Average	54	Pass
NVNT	g	2462	Ant0	2483.729	-28.99	2.44	68.71	Peak	74	Pass
NVNT	g	2462	Ant0	2483.57	-45.56	2.44	52.14	Average	54	Pass
NVNT	g	2462	Ant0	2500	-48.25	2.44	49.45	Peak	74	Pass
NVNT	g	2462	Ant0	2500	-55.85	2.44	41.85	Average	54	Pass
NVNT	n20	2412	Ant0	2310	-49.01	2.44	48.69	Peak	74	Pass
NVNT	n20	2412	Ant0	2310	-56.57	2.44	41.13	Average	54	Pass
NVNT	n20	2412	Ant0	2389.443	-35.17	2.44	62.53	Peak	74	Pass
NVNT	n20	2412	Ant0	2389.911	-49.27	2.44	48.43	Average	54	Pass
NVNT	n20	2412	Ant0	2390	-40.05	2.44	57.65	Peak	74	Pass
NVNT	n20	2412	Ant0	2390	-48.49	2.44	49.21	Average	54	Pass
NVNT	n20	2462	Ant0	2483.5	-41.97	2.44	55.73	Peak	74	Pass
NVNT	n20	2462	Ant0	2483.5	-51.11	2.44	46.59	Average	54	Pass
NVNT	n20	2462	Ant0	2484.153	-37.13	2.44	60.57	Peak	74	Pass
NVNT	n20	2462	Ant0	2483.517	-51.11	2.44	46.59	Average	54	Pass
NVNT	n20	2462	Ant0	2500	-49.09	2.44	48.61	Peak	74	Pass
NVNT	n20	2462	Ant0	2500	-55.86	2.44	41.84	Average	54	Pass



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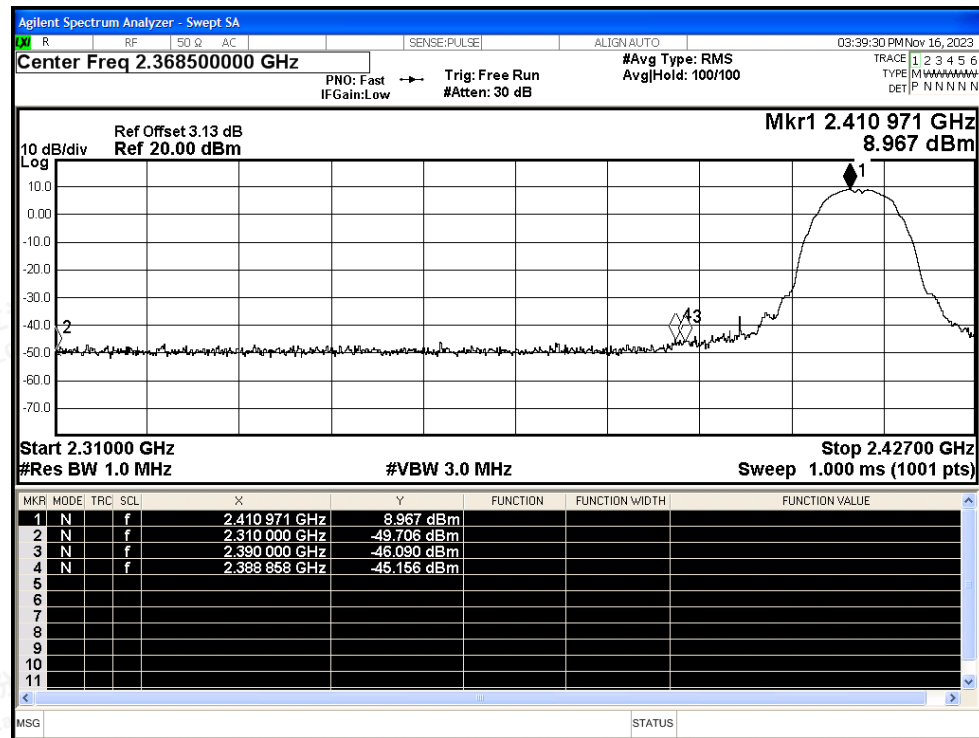
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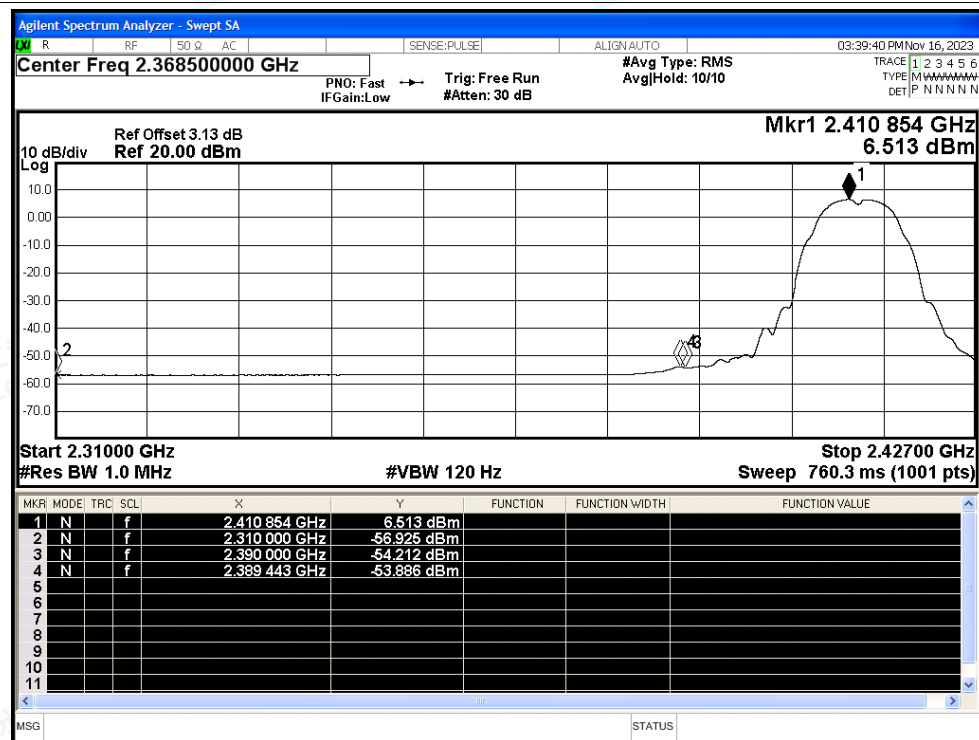


Test Graphs

Restrict Band NVNT b 2412MHz Ant0 Peak



Restrict Band NVNT b 2412MHz Ant0 Average

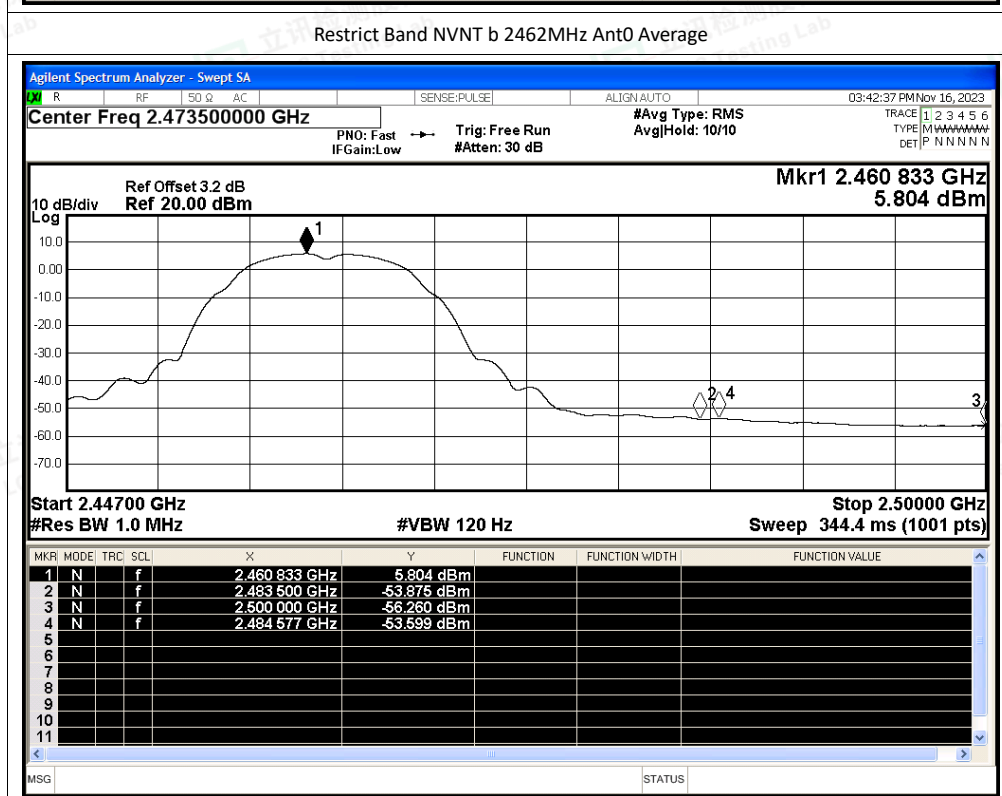
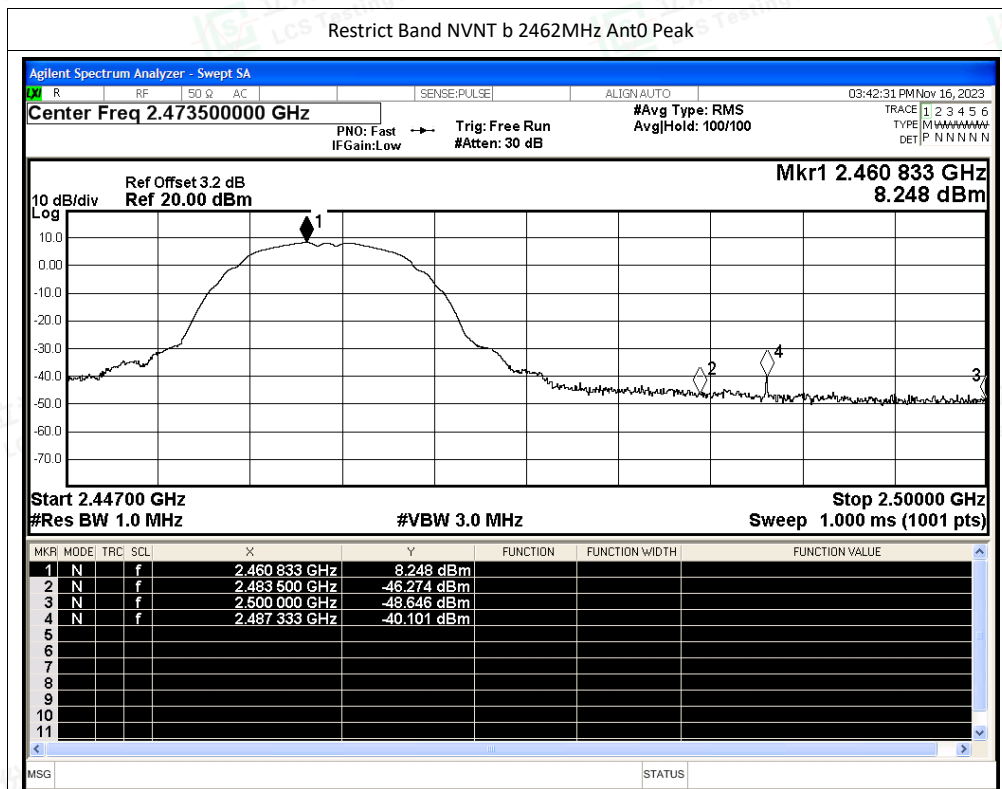


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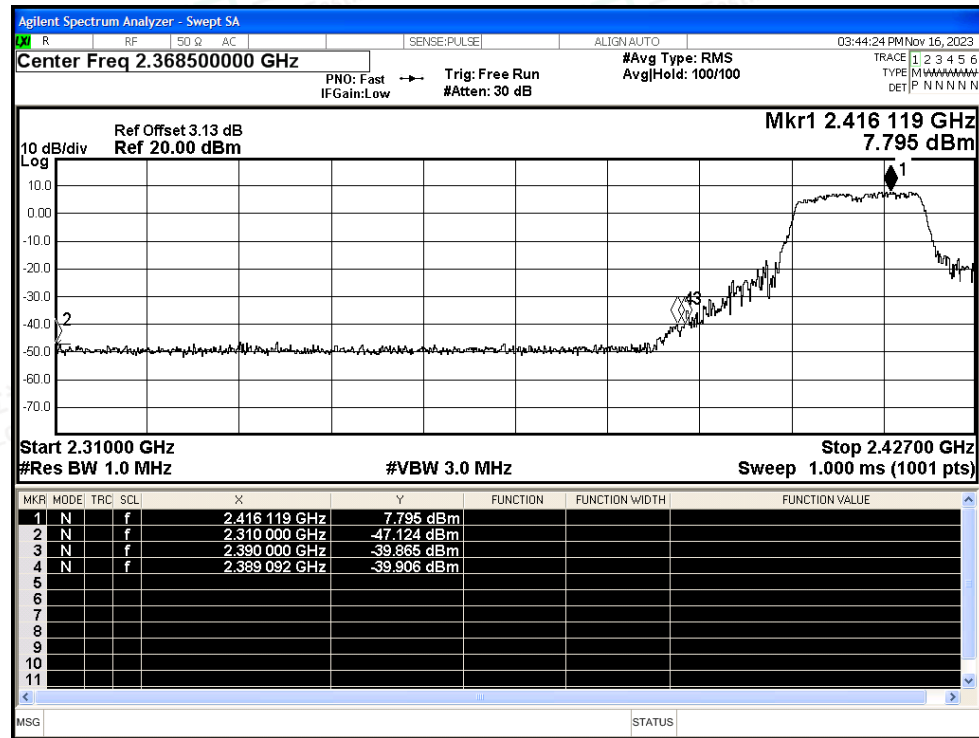
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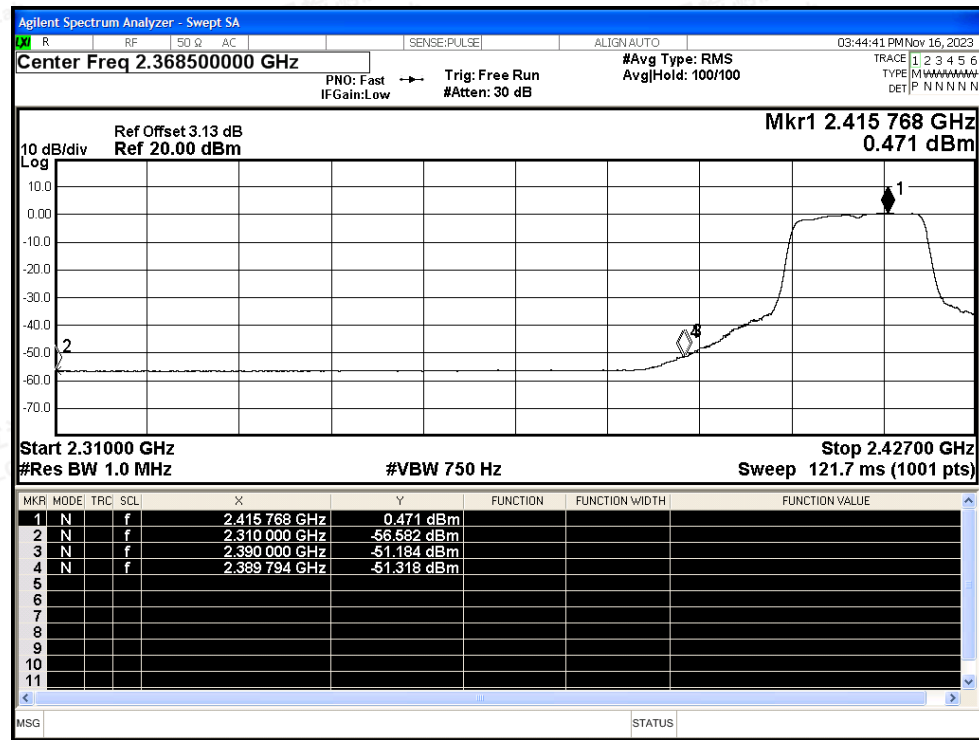
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Restrict Band NVNT g 2412MHz Ant0 Peak



Restrict Band NVNT g 2412MHz Ant0 Average



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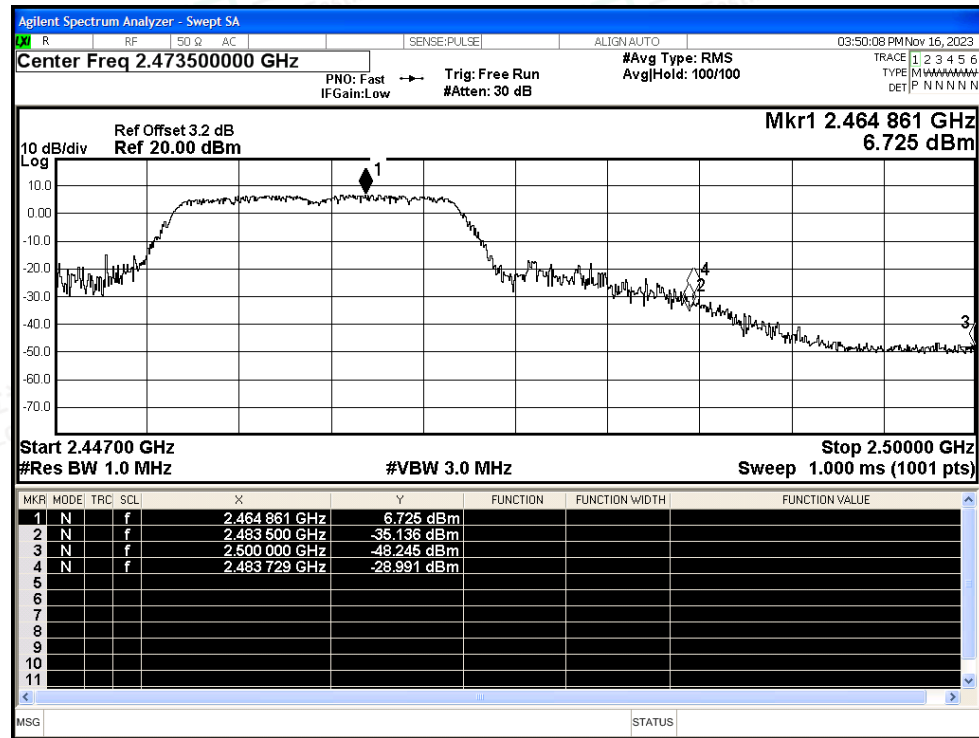
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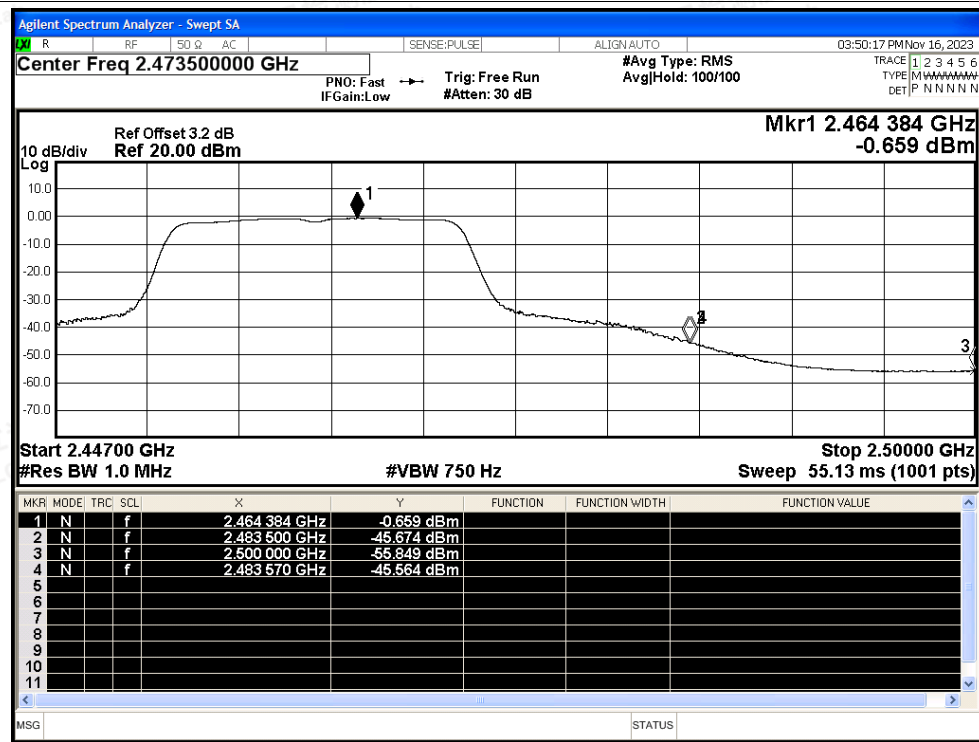
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Restrict Band NVNT g 2462MHz Ant0 Peak



Restrict Band NVNT g 2462MHz Ant0 Average

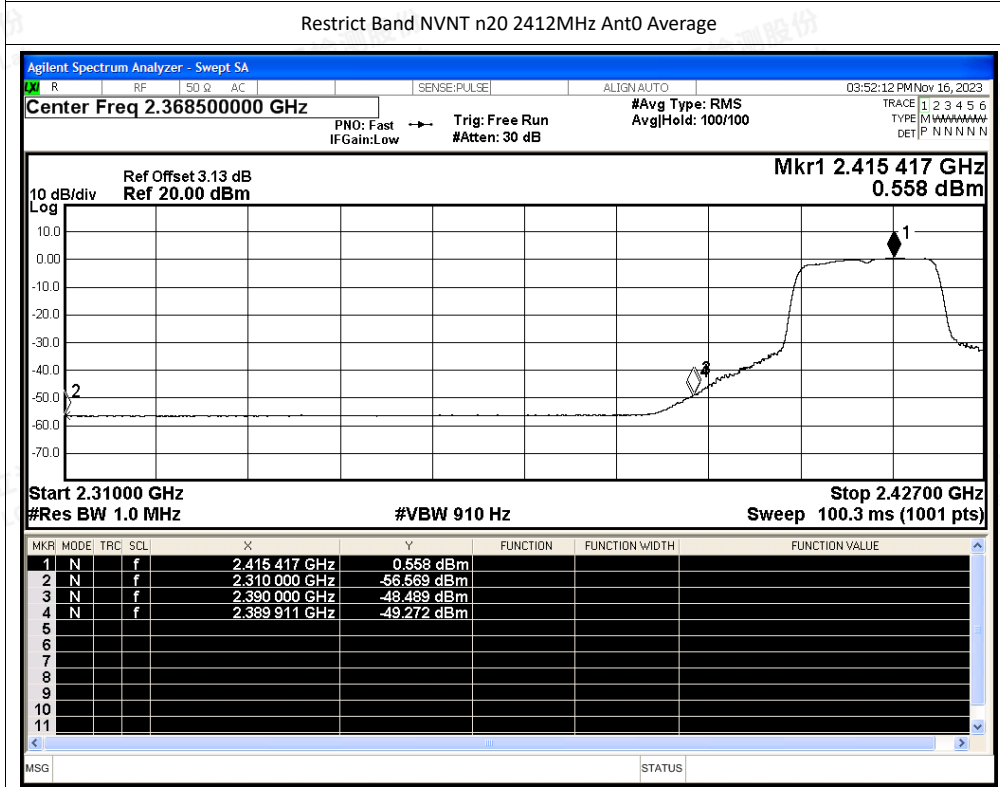
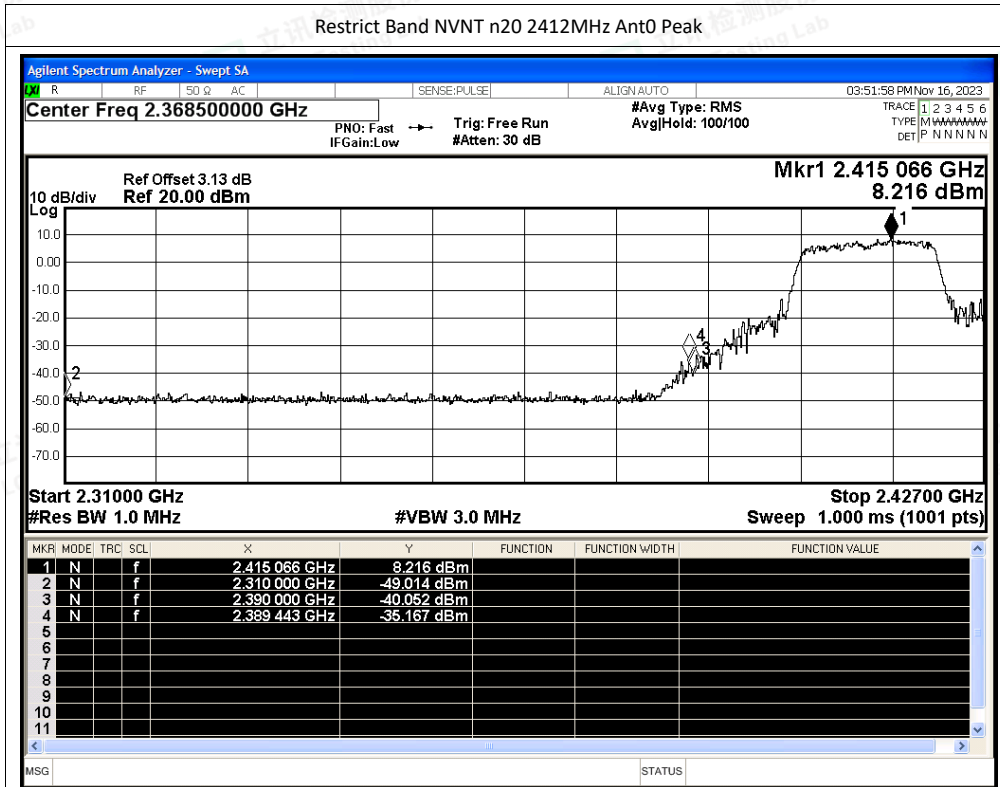


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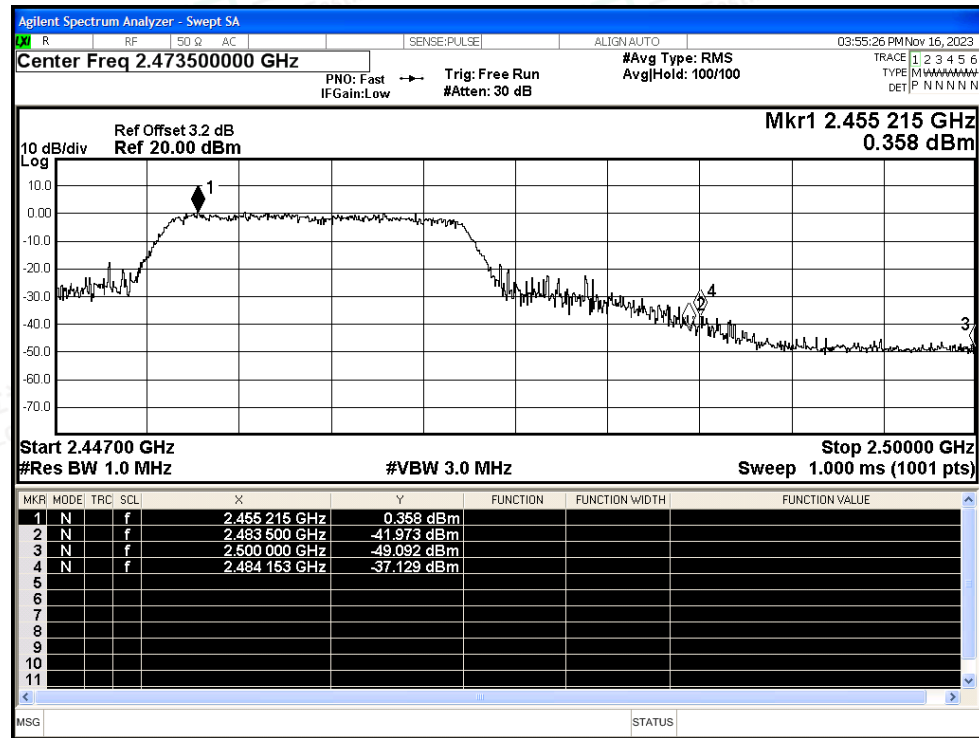
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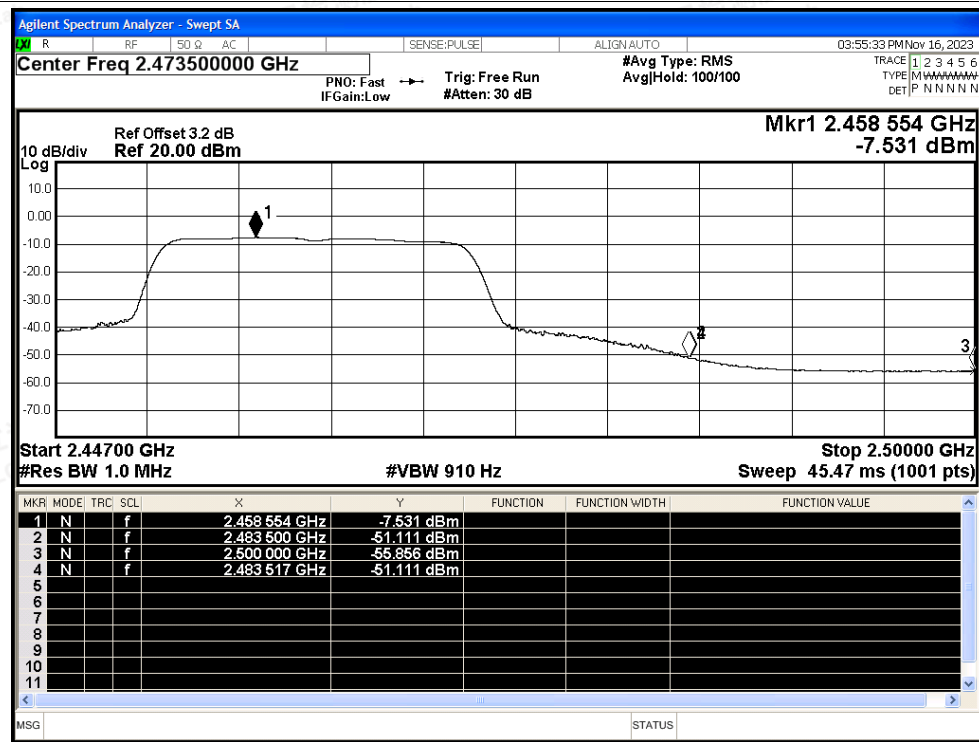
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Restrict Band NVNT n20 2462MHz Ant0 Peak



Restrict Band NVNT n20 2462MHz Ant0 Average



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