



Appendix B

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: fully automatic cat toilet

Test Model: HIP-C201L

Environmental Conditions

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





B.1 -6dB Bandwidth

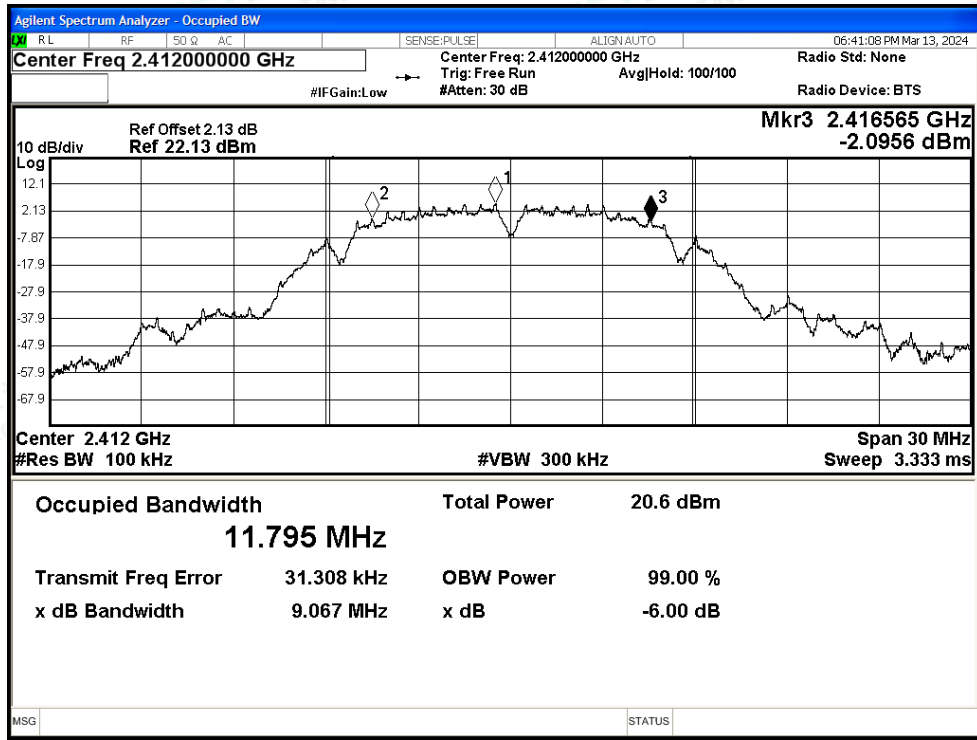
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.067	>=0.5	Pass
NVNT	b	2437	Ant1	8.063	>=0.5	Pass
NVNT	b	2462	Ant1	8.055	>=0.5	Pass
NVNT	g	2412	Ant1	15.729	>=0.5	Pass
NVNT	g	2437	Ant1	16.333	>=0.5	Pass
NVNT	g	2462	Ant1	16.061	>=0.5	Pass
NVNT	n20	2412	Ant1	16.975	>=0.5	Pass
NVNT	n20	2437	Ant1	17.095	>=0.5	Pass
NVNT	n20	2462	Ant1	16.999	>=0.5	Pass
NVNT	n40	2422	Ant1	35.55	>=0.5	Pass
NVNT	n40	2437	Ant1	33.076	>=0.5	Pass
NVNT	n40	2452	Ant1	35.571	>=0.5	Pass



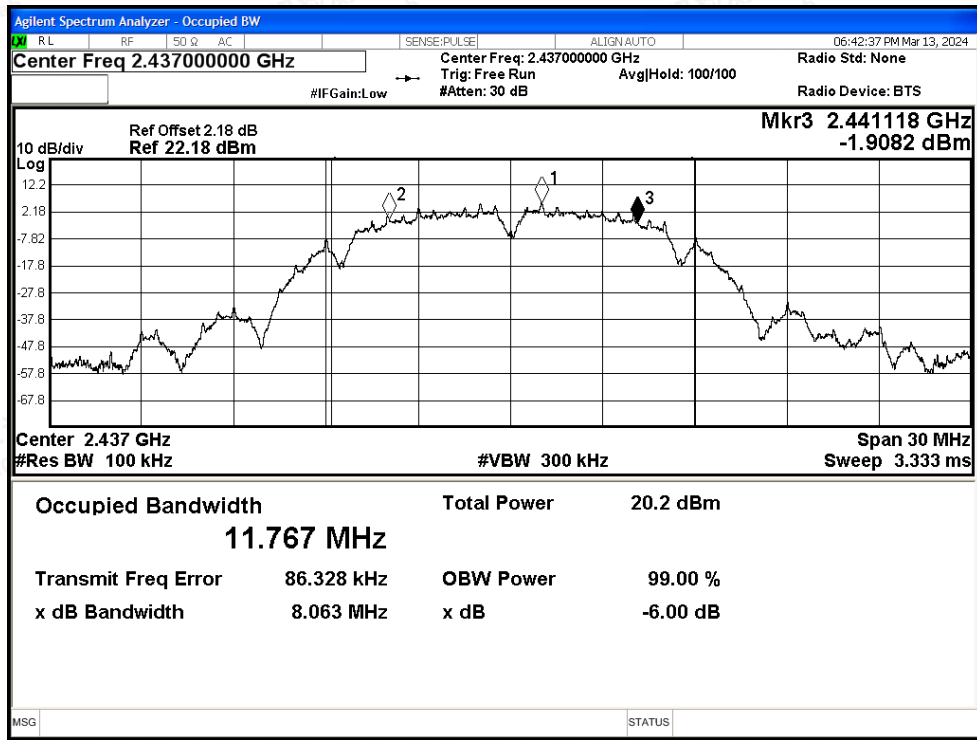


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

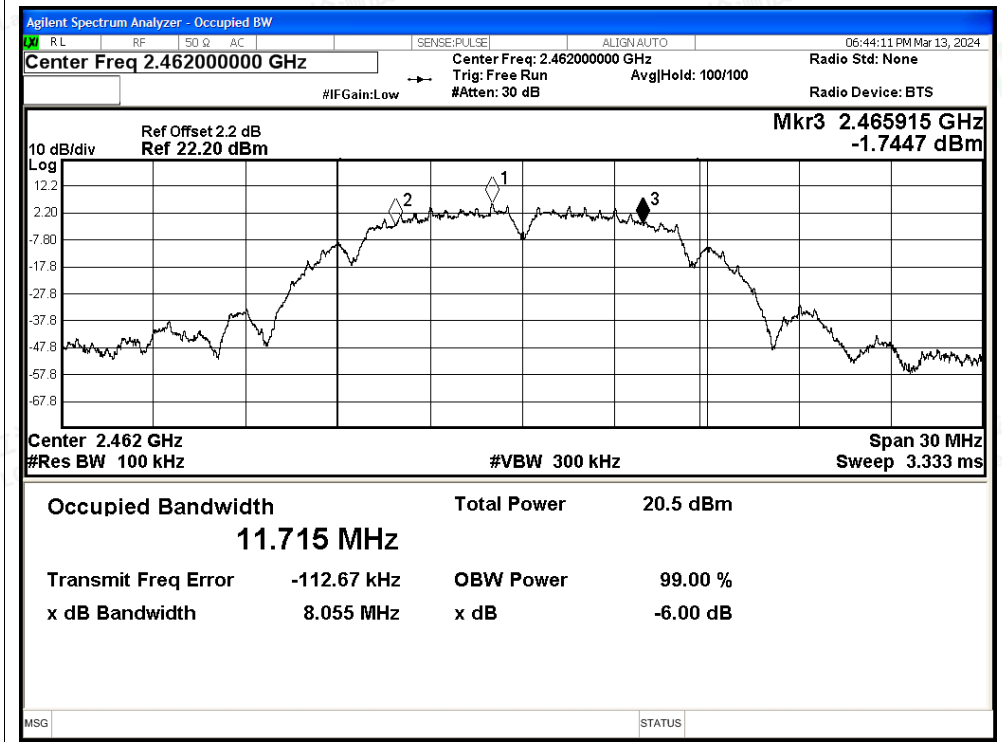


-6dB Bandwidth NVNT b 2437MHz Ant1

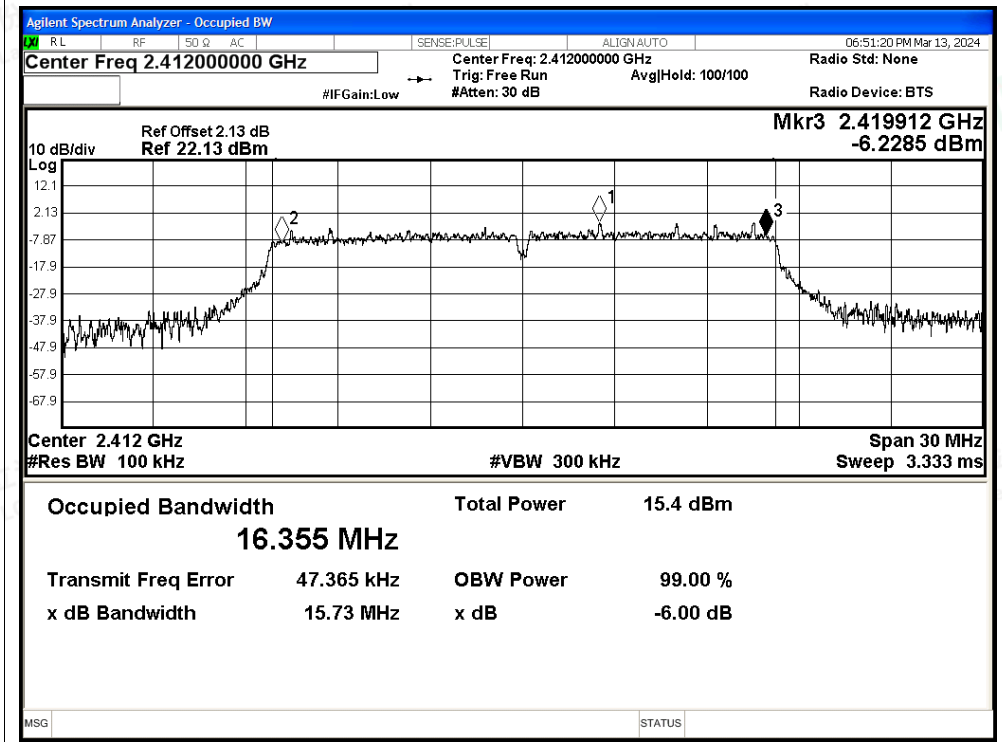




-6dB Bandwidth NVNT b 2462MHz Ant1

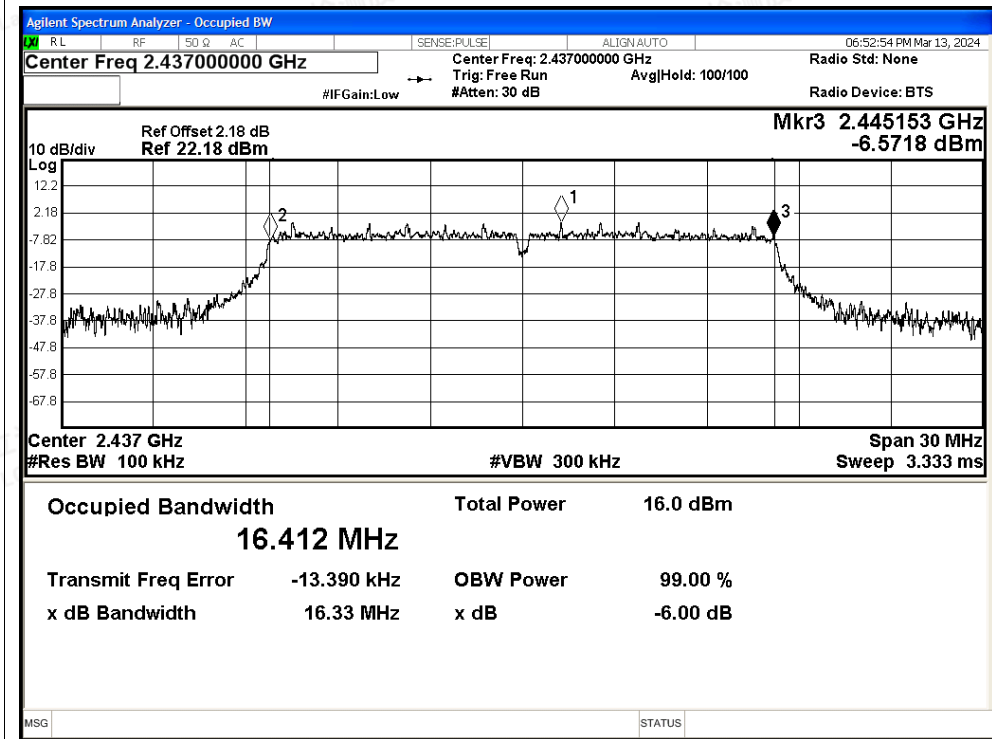


-6dB Bandwidth NVNT g 2412MHz Ant1

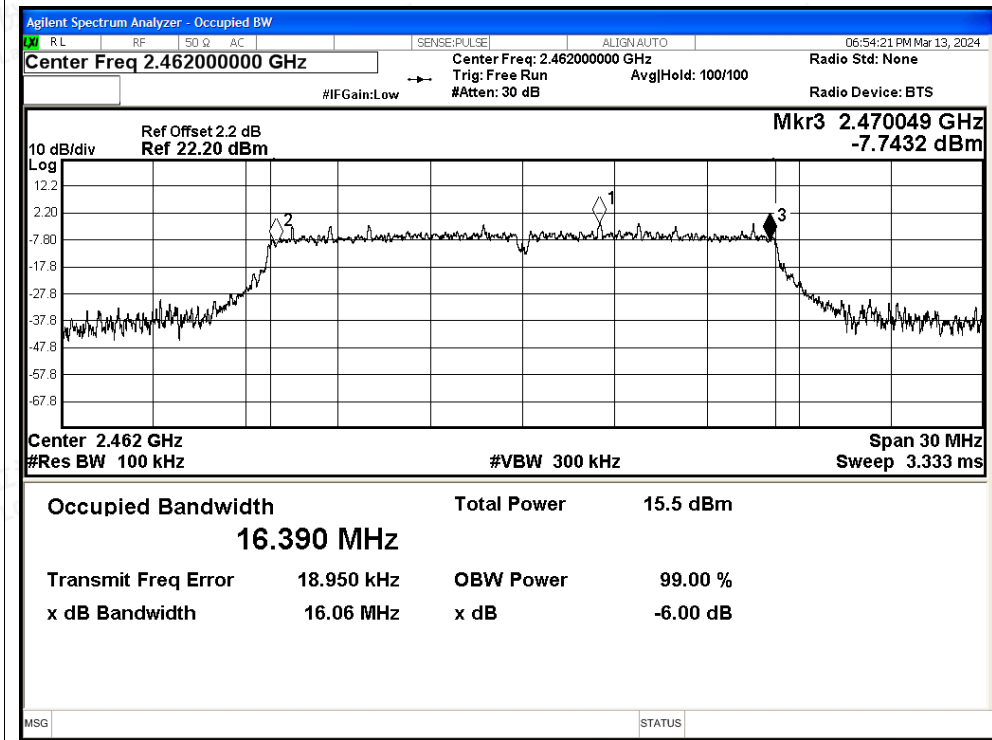




-6dB Bandwidth NVNT g 2437MHz Ant1

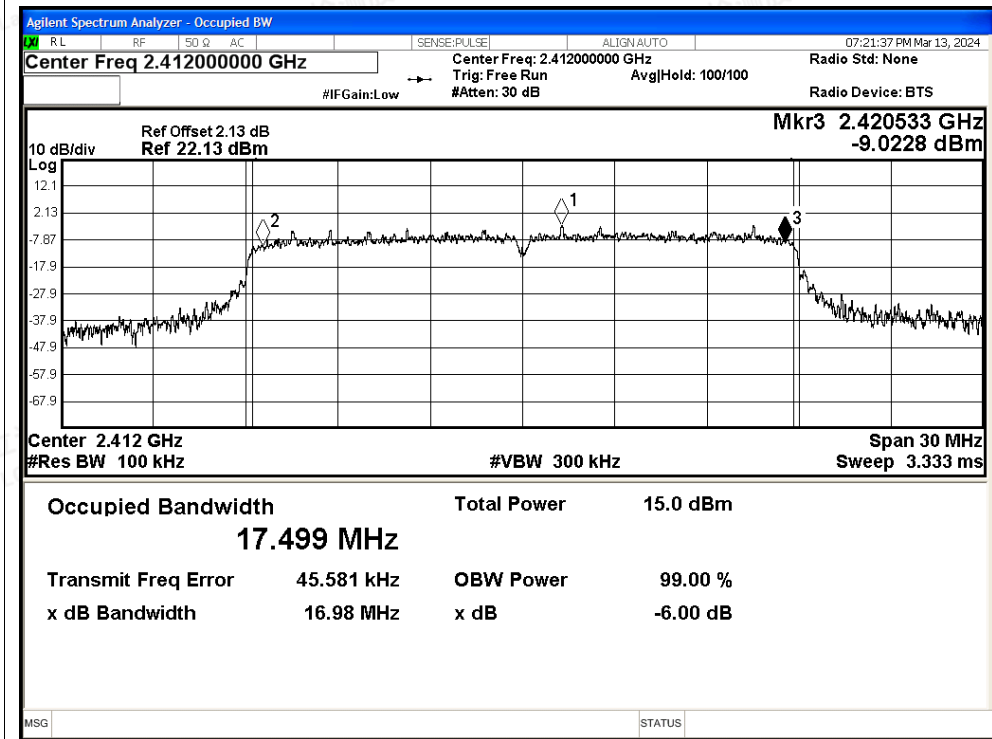


-6dB Bandwidth NVNT g 2462MHz Ant1

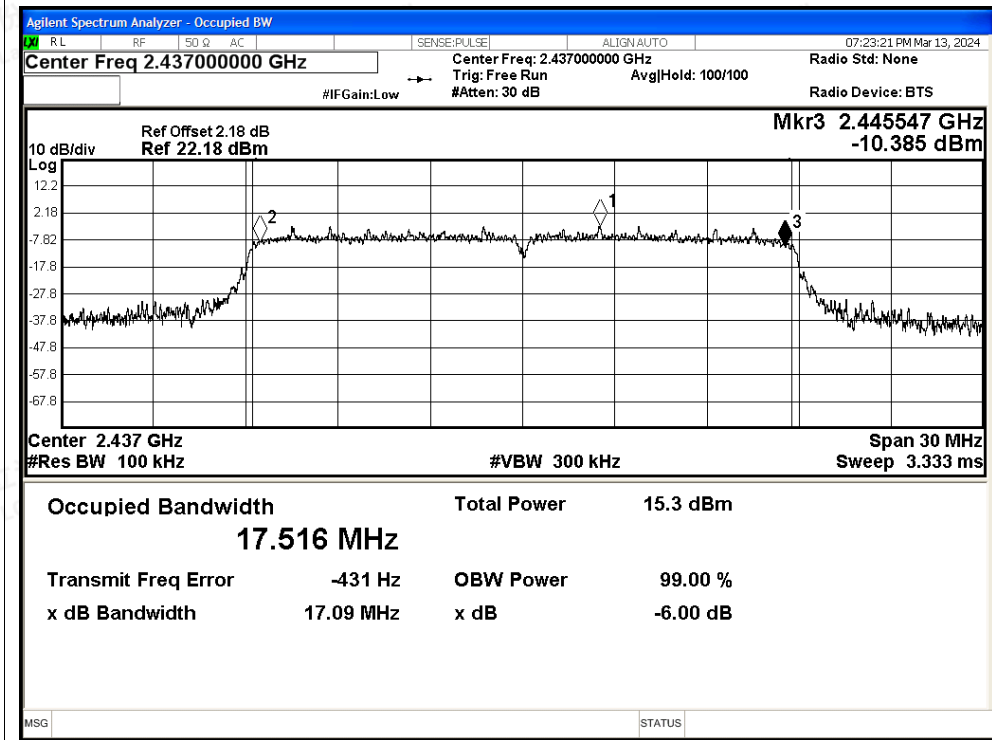




-6dB Bandwidth NVNT n20 2412MHz Ant1

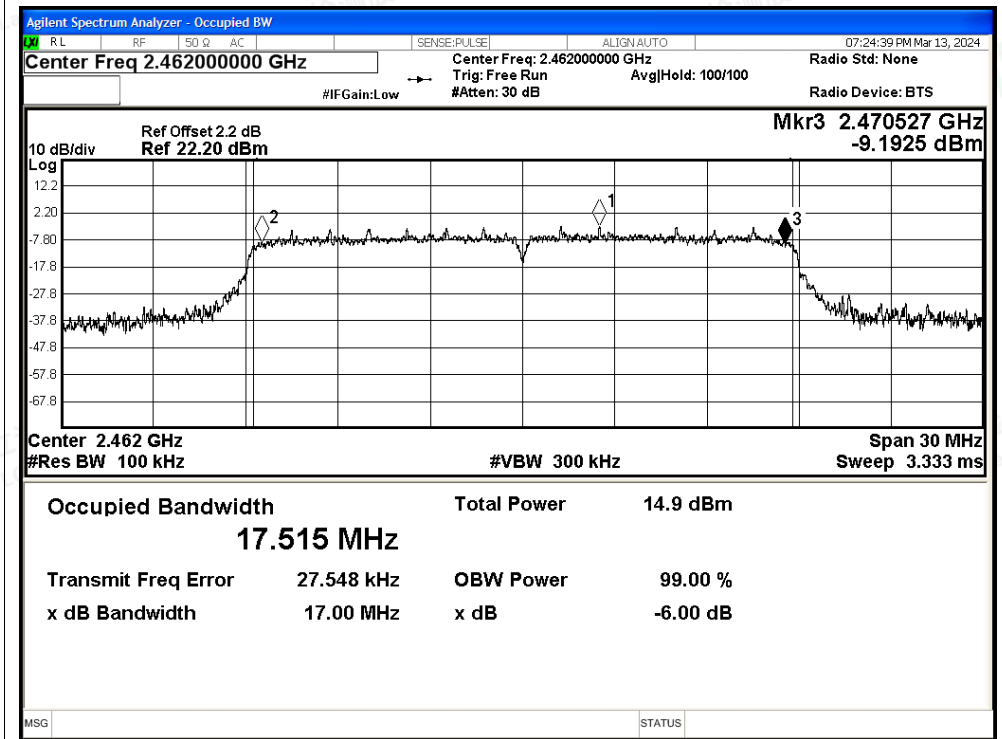


-6dB Bandwidth NVNT n20 2437MHz Ant1

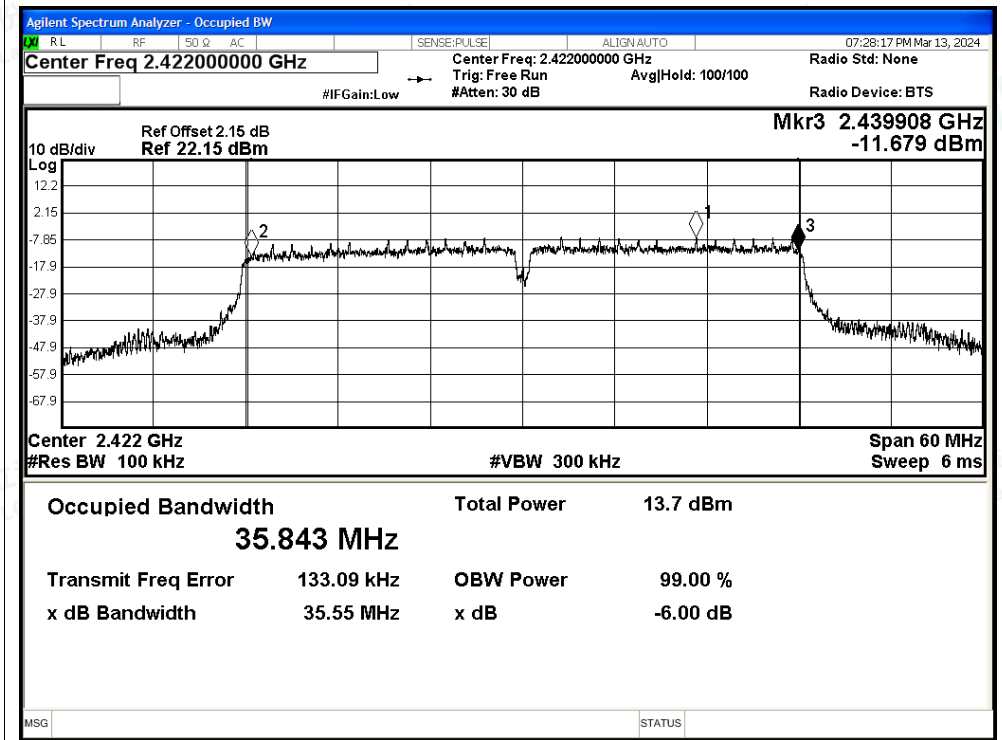




-6dB Bandwidth NVNT n20 2462MHz Ant1

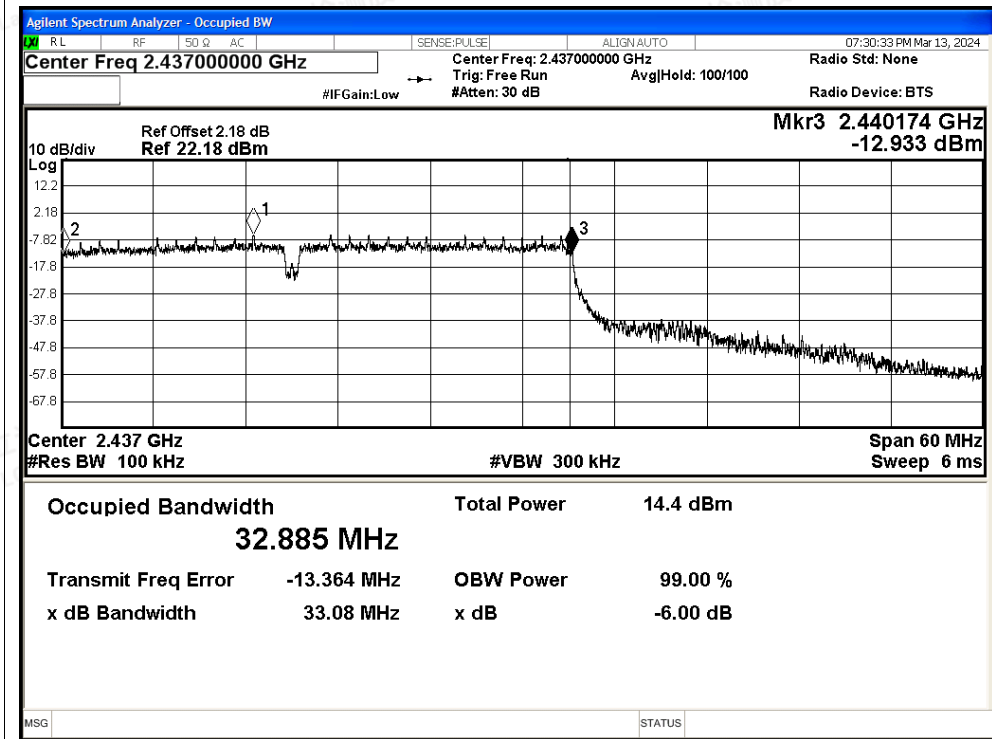


-6dB Bandwidth NVNT n40 2422MHz Ant1

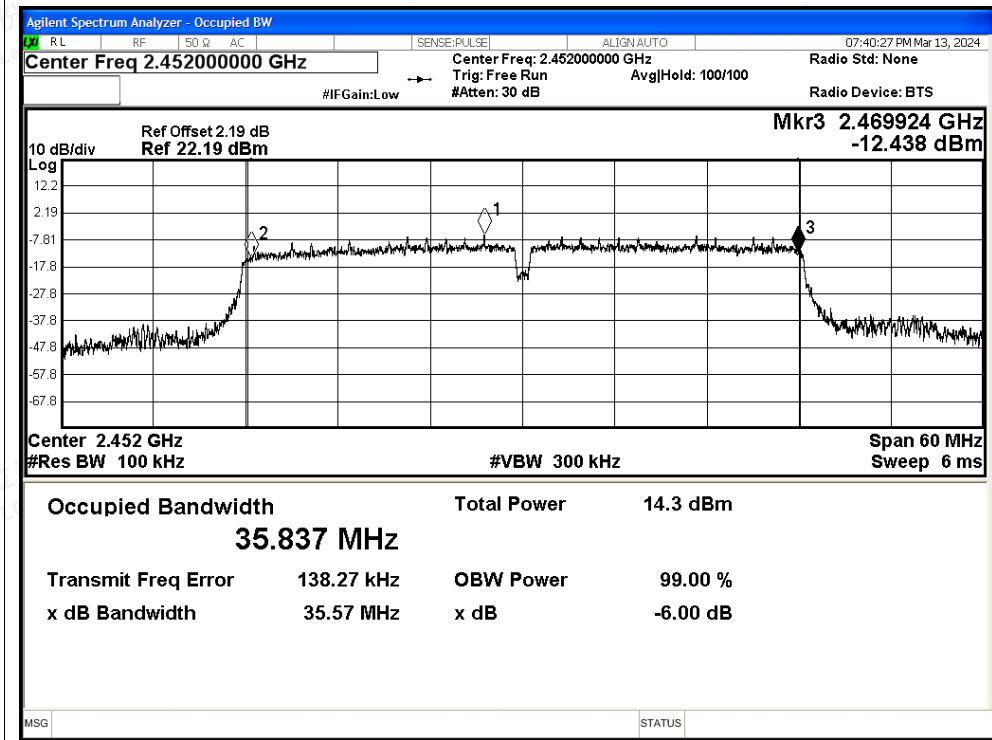




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.66	30	Pass
NVNT	b	2437	Ant1	15.21	30	Pass
NVNT	b	2462	Ant1	15.53	30	Pass
NVNT	g	2412	Ant1	14	30	Pass
NVNT	g	2437	Ant1	14.62	30	Pass
NVNT	g	2462	Ant1	14.15	30	Pass
NVNT	n20	2412	Ant1	13.43	30	Pass
NVNT	n20	2437	Ant1	13.72	30	Pass
NVNT	n20	2462	Ant1	13.38	30	Pass
NVNT	n40	2422	Ant1	12.96	30	Pass
NVNT	n40	2437	Ant1	12.71	30	Pass
NVNT	n40	2452	Ant1	12.24	30	Pass



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Scan code to check authenticity

B.3 Maximum Power Spectral Density Level

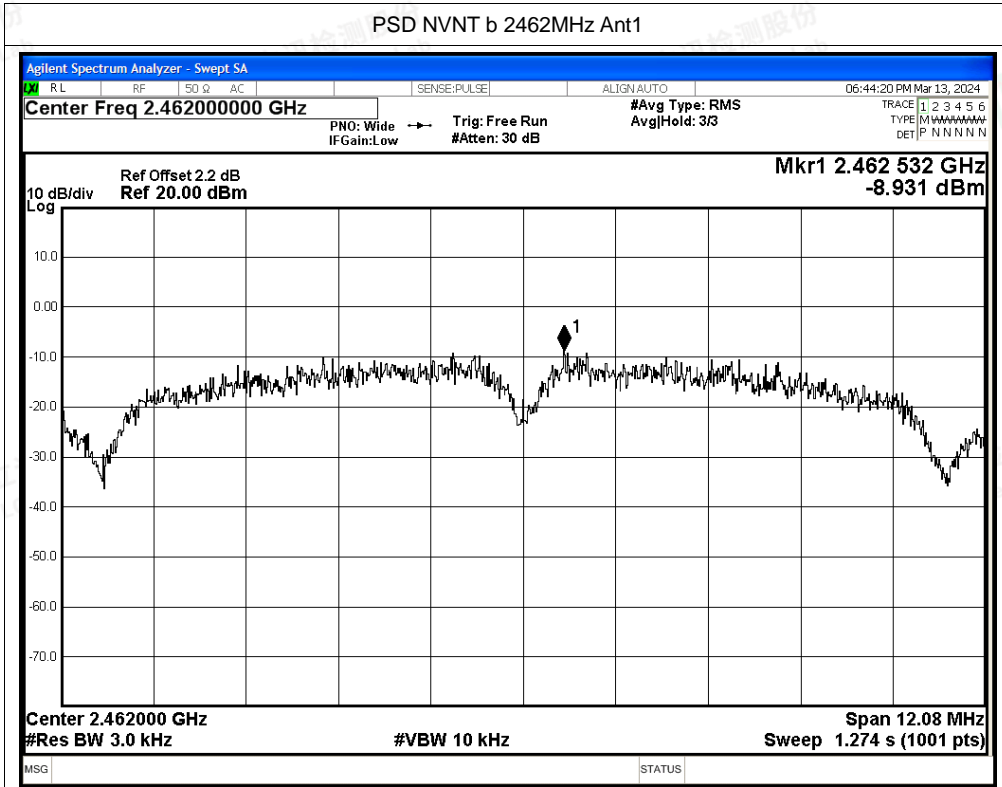
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.48	8	Pass
NVNT	b	2437	Ant1	-9.09	8	Pass
NVNT	b	2462	Ant1	-8.93	8	Pass
NVNT	g	2412	Ant1	-16.58	8	Pass
NVNT	g	2437	Ant1	-15.55	8	Pass
NVNT	g	2462	Ant1	-16.01	8	Pass
NVNT	n20	2412	Ant1	-16.41	8	Pass
NVNT	n20	2437	Ant1	-17.21	8	Pass
NVNT	n20	2462	Ant1	-17.05	8	Pass
NVNT	n40	2422	Ant1	-21.1	8	Pass
NVNT	n40	2437	Ant1	-20.85	8	Pass
NVNT	n40	2452	Ant1	-19.9	8	Pass



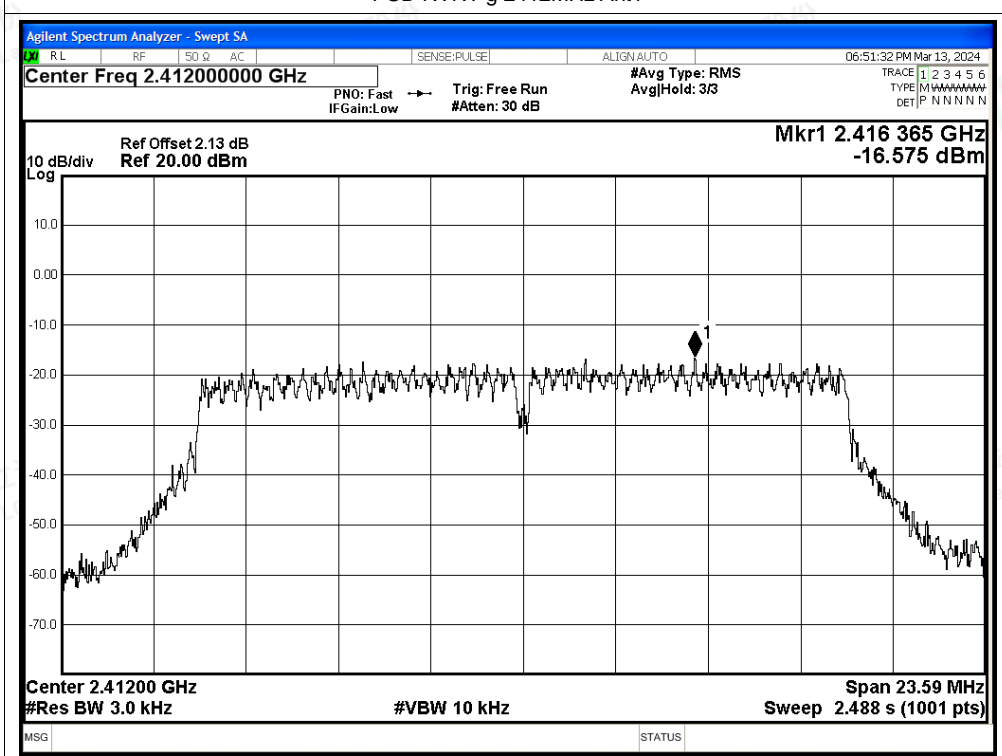


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PSD NVNT b 2462MHz Ant1

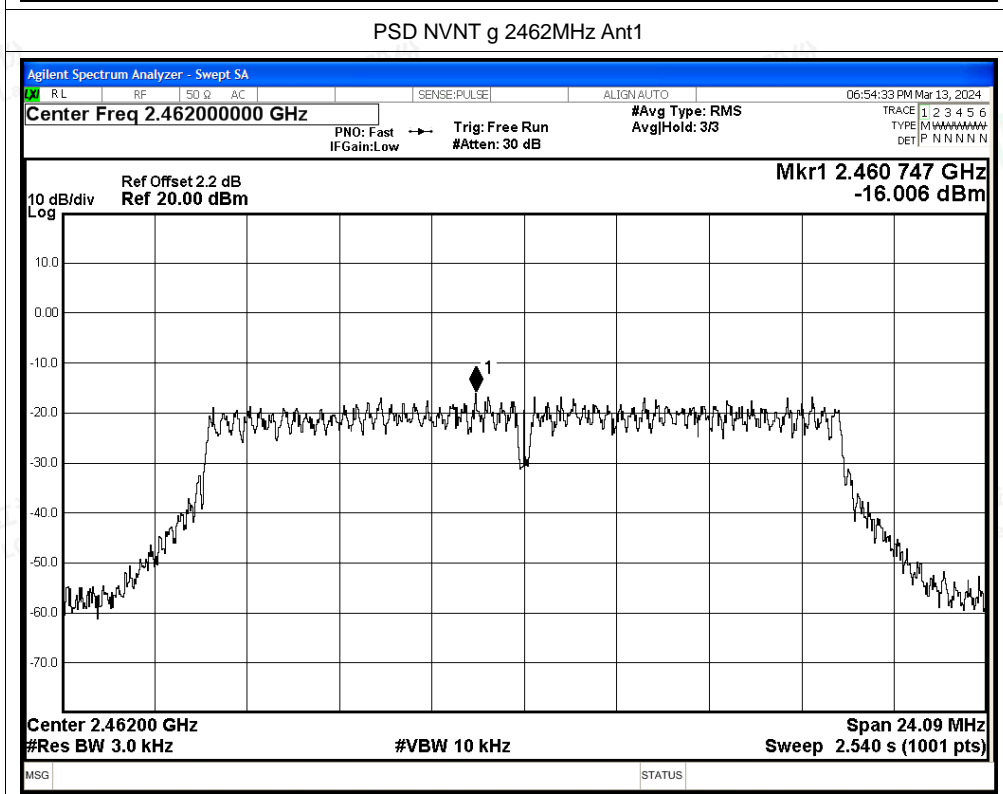
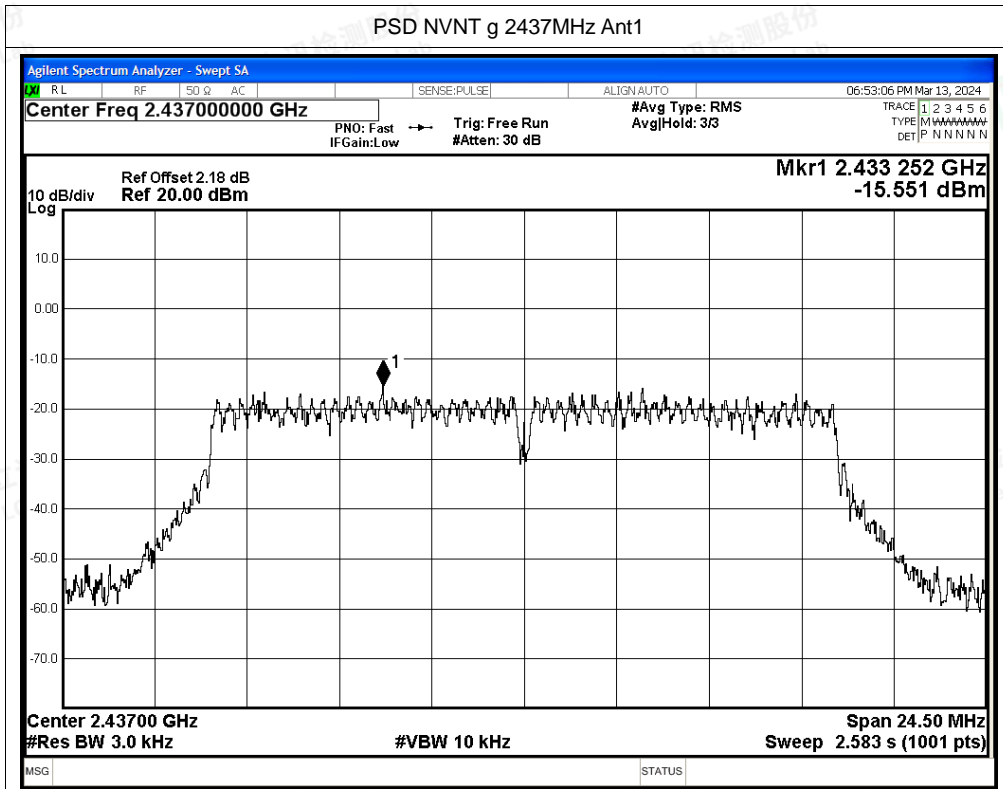


PSD NVNT g 2412MHz Ant1



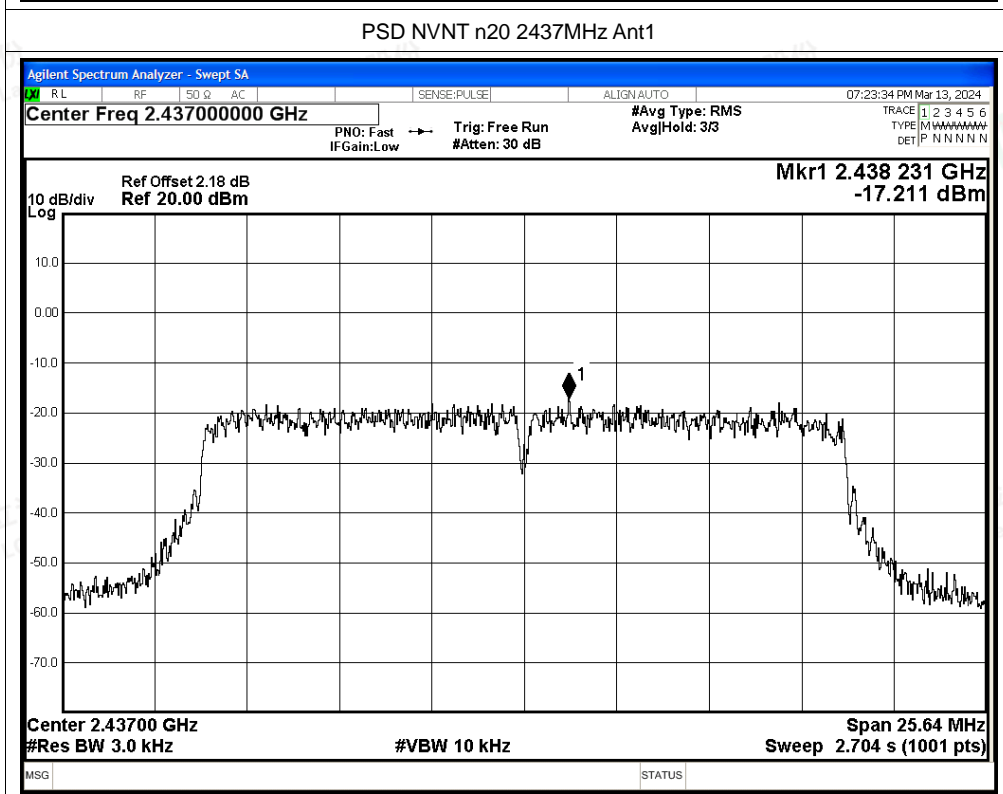
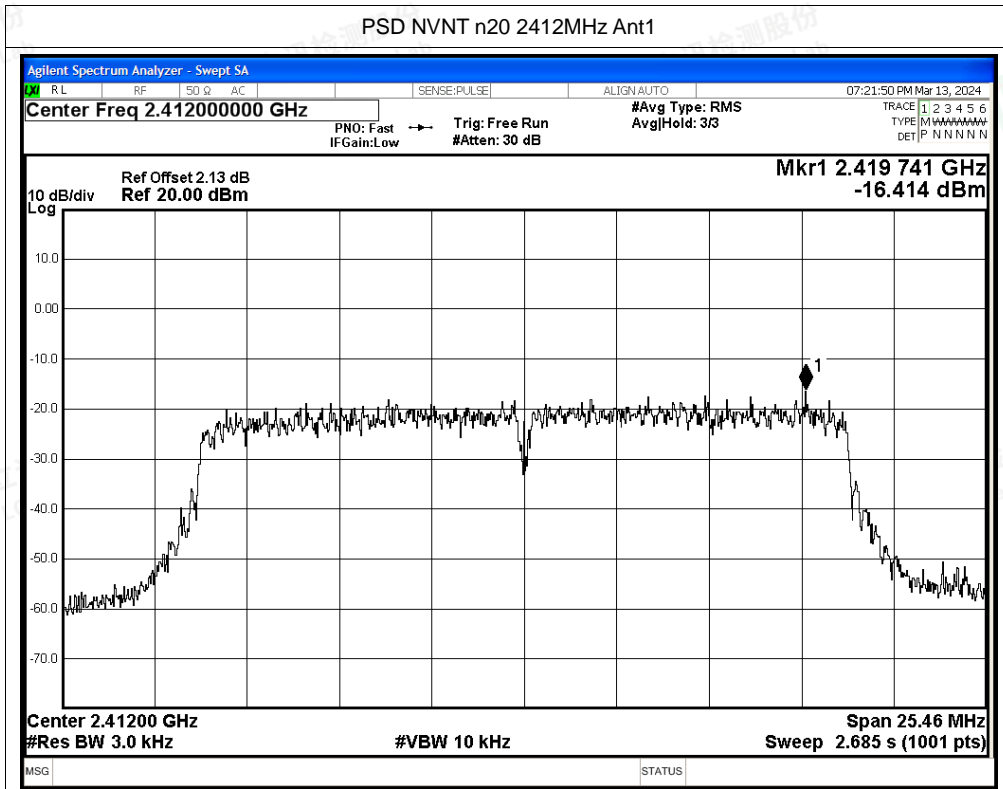


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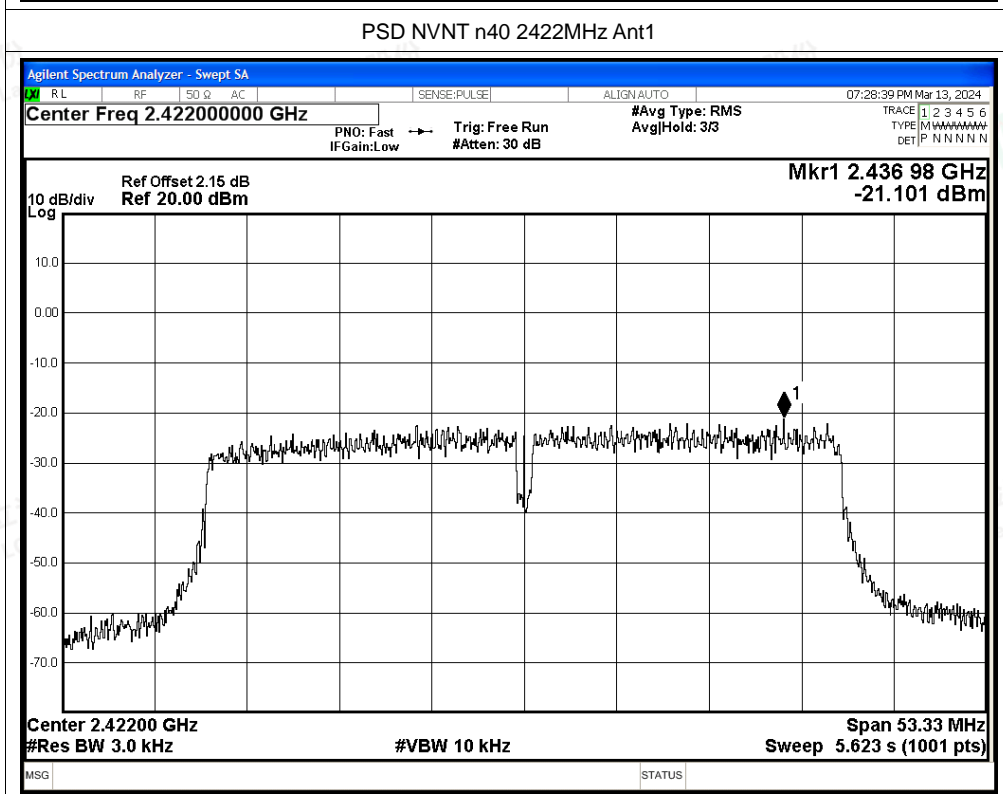
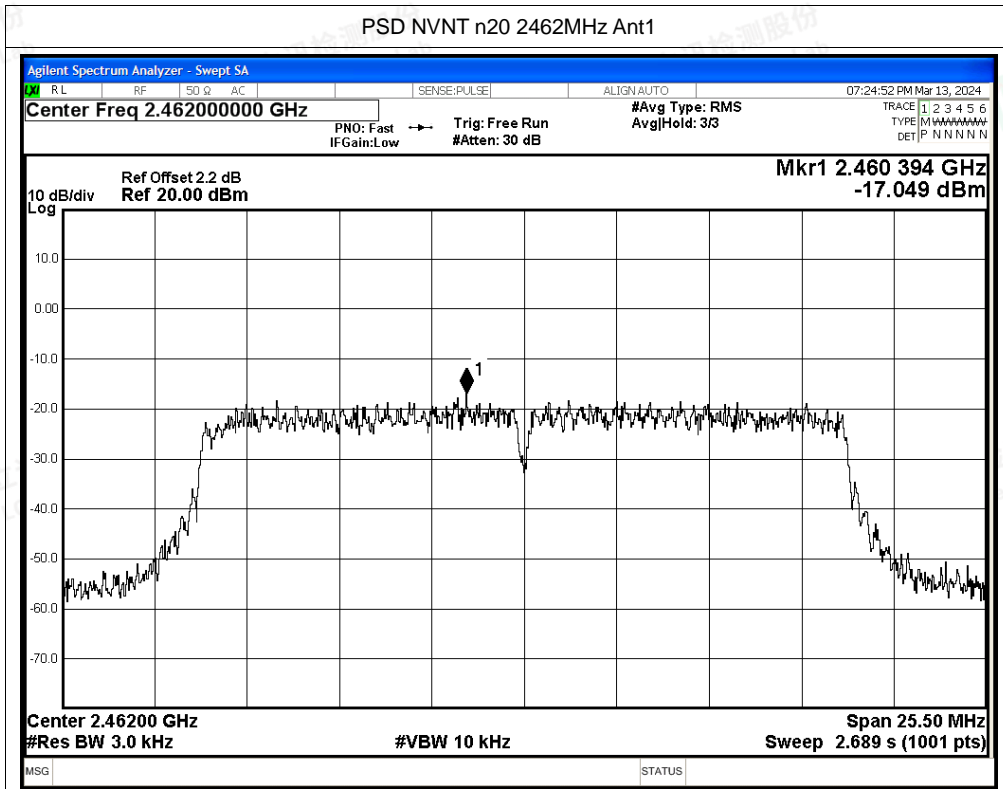


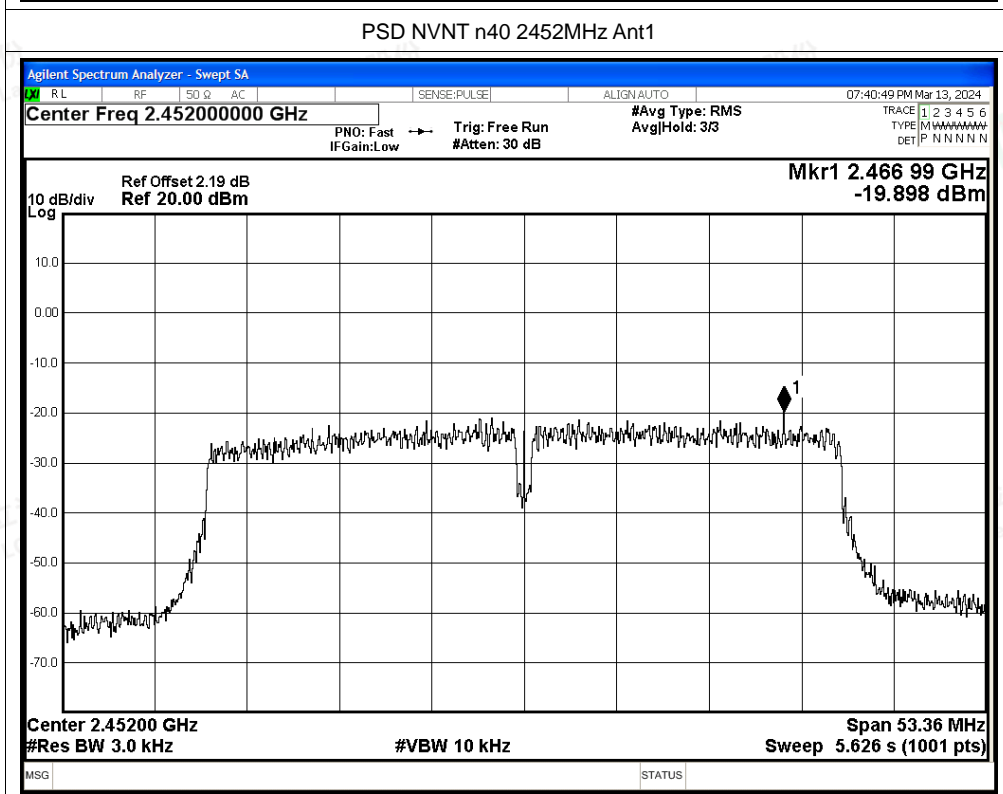
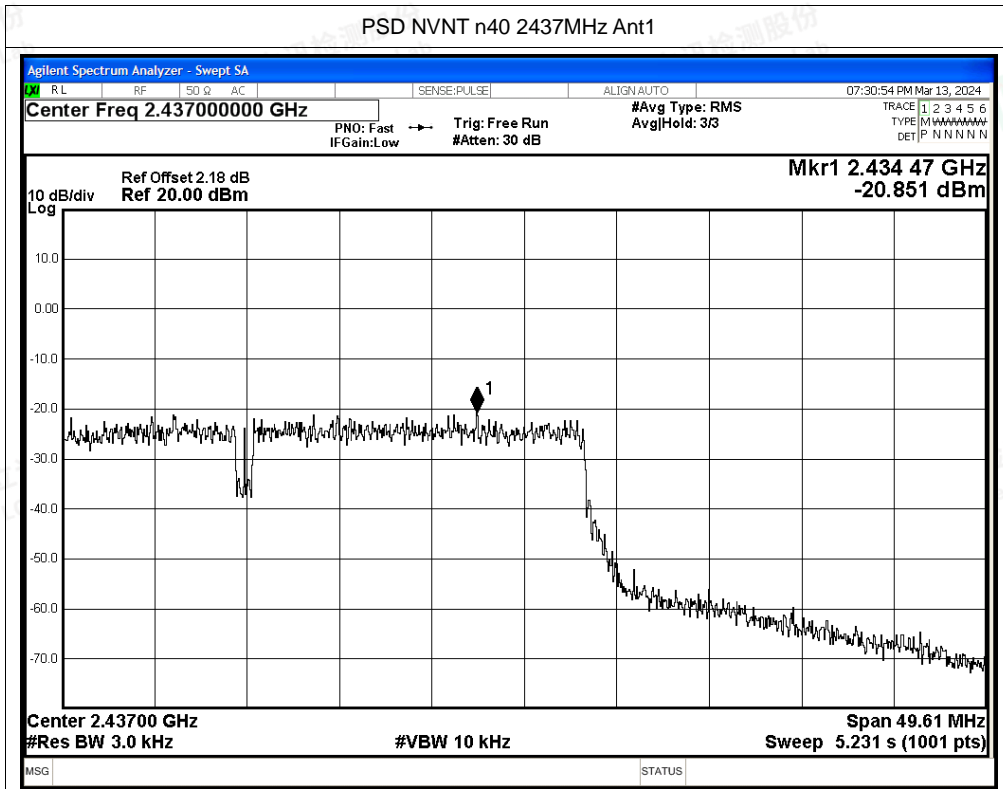
LCSA2204080EB





LCSA2224080EB



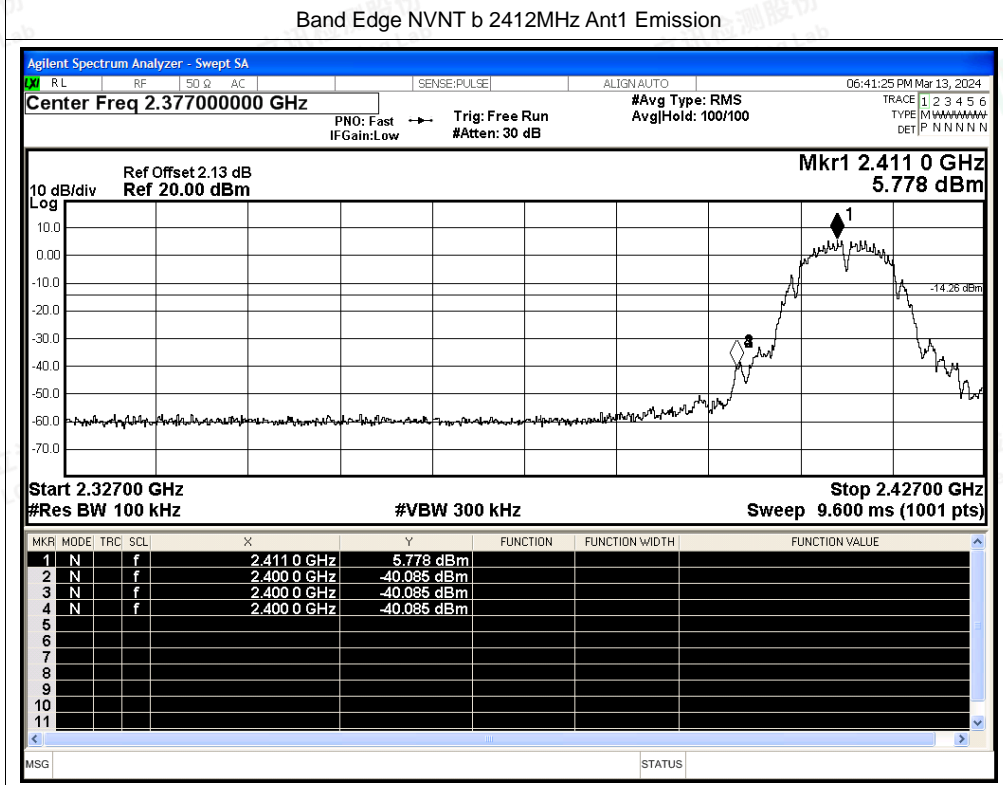
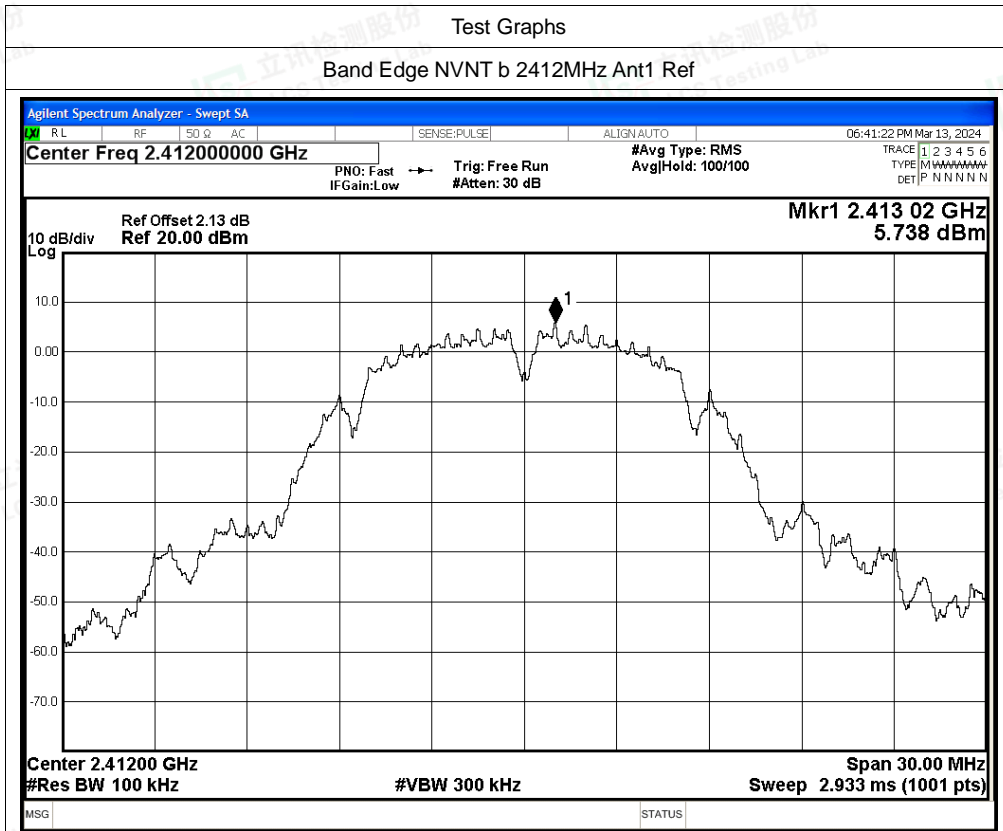


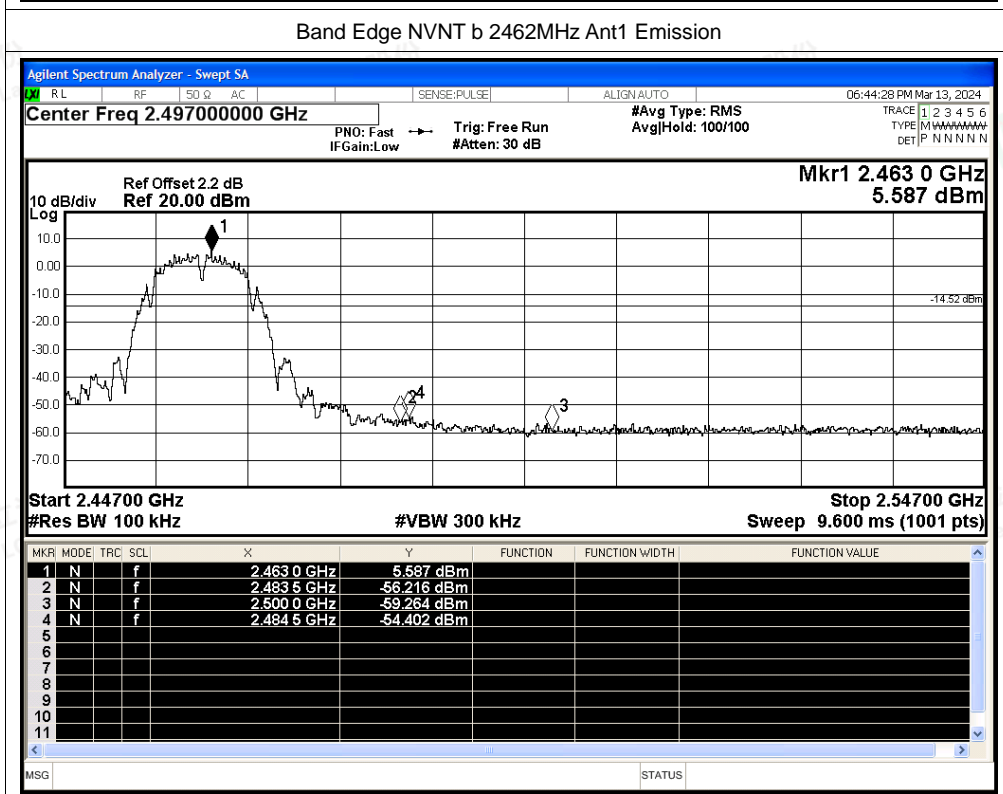
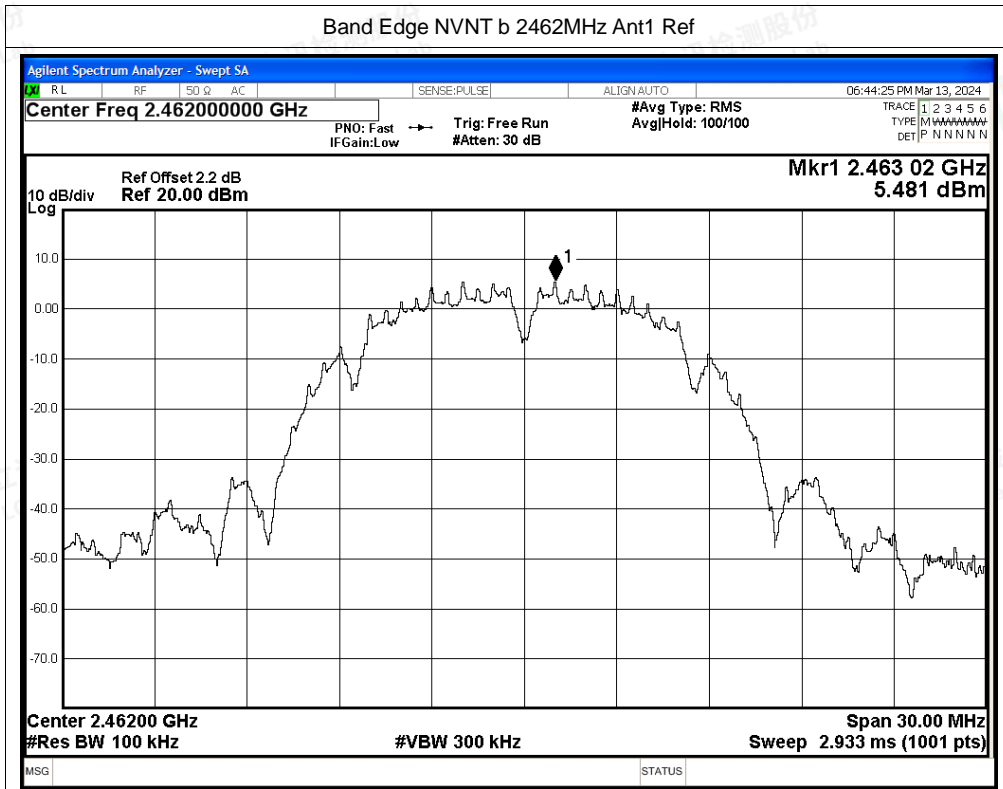


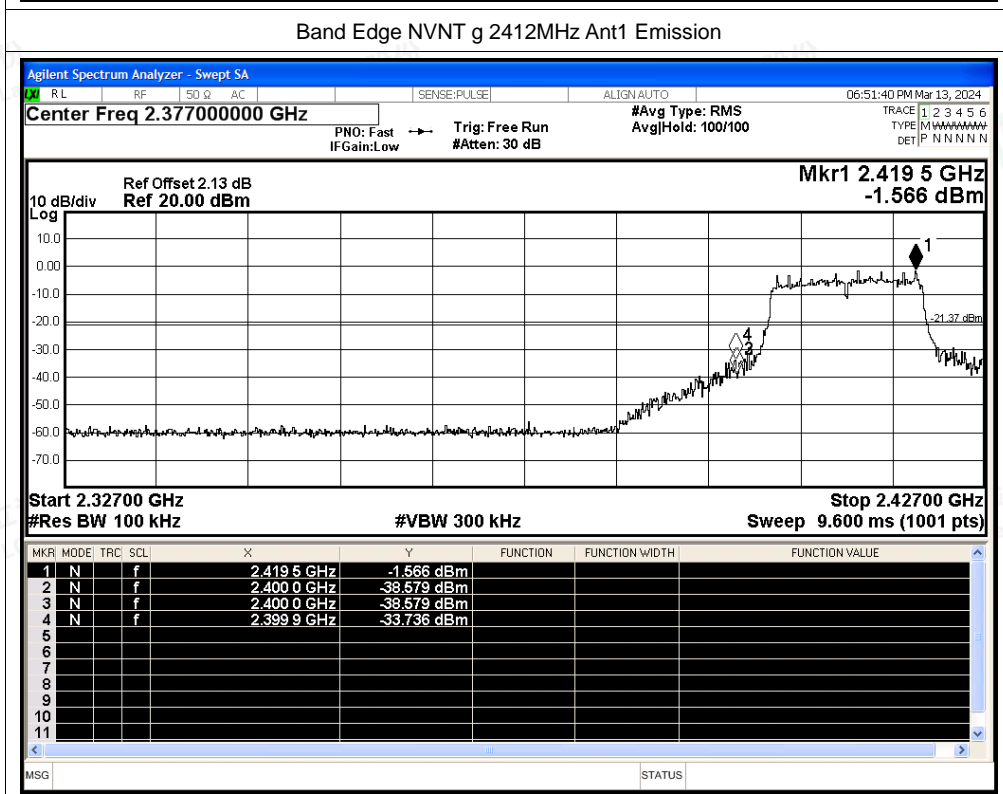
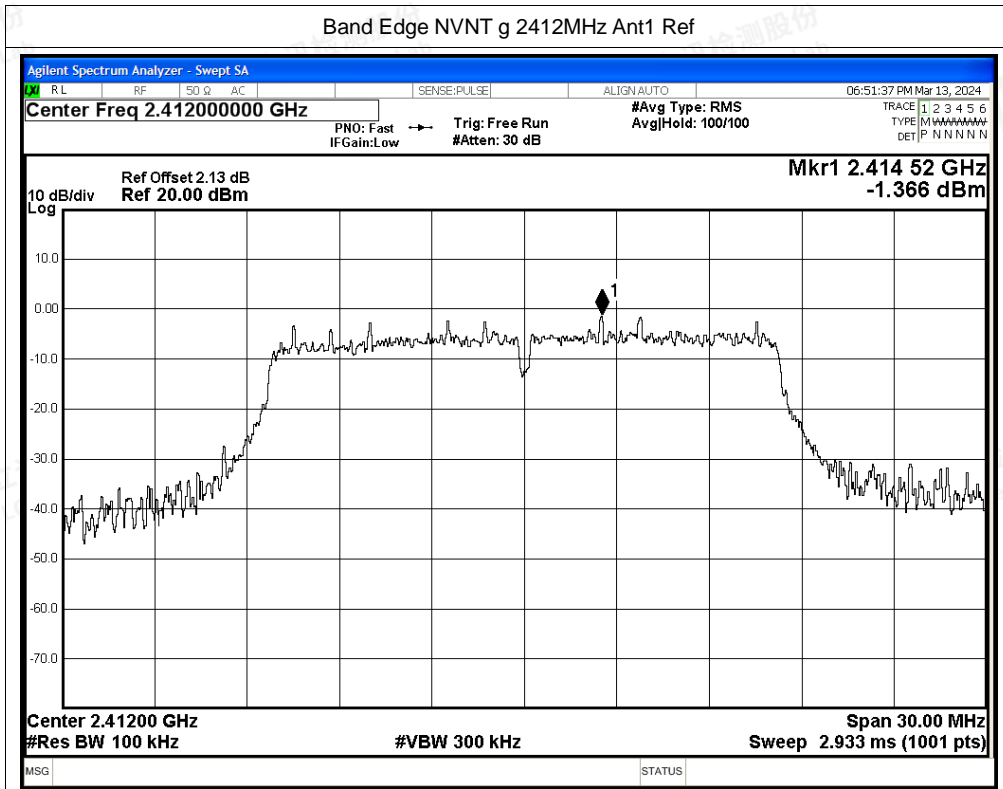
B.4 Band Edge

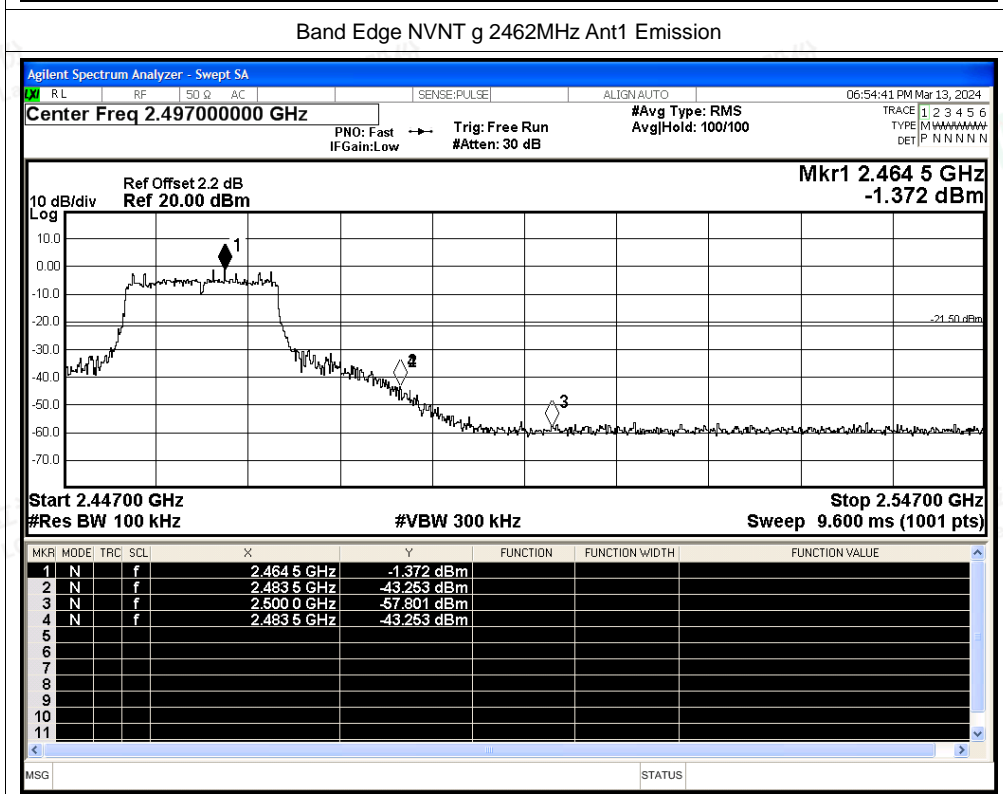
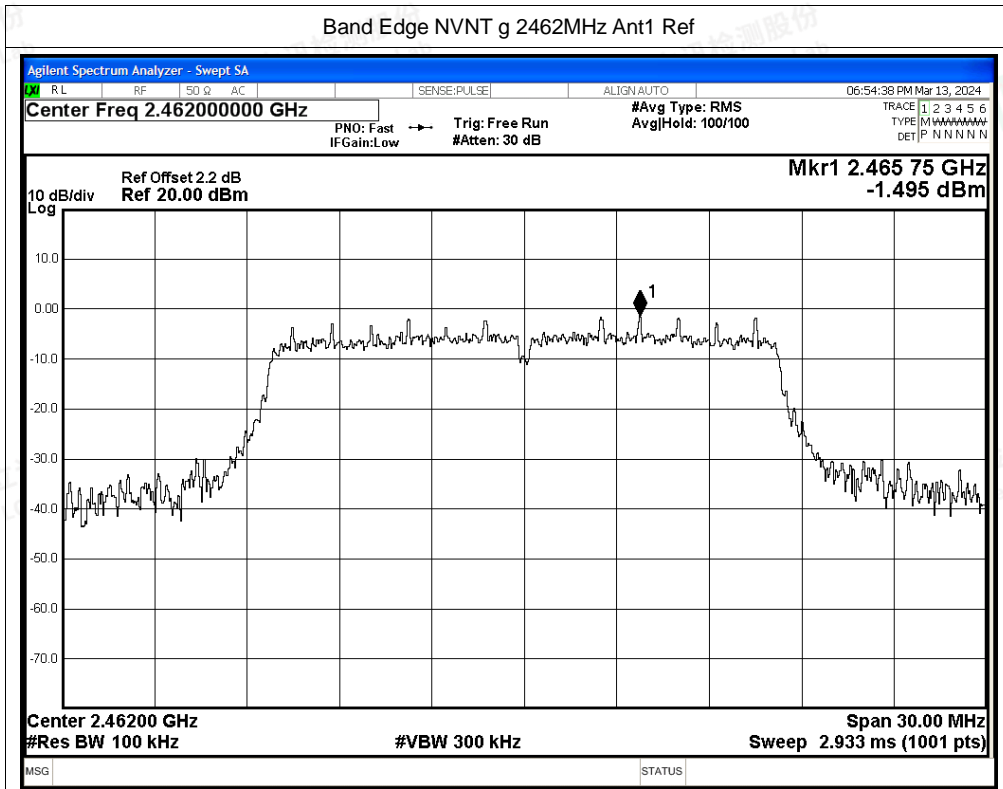
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.82	-20	Pass
NVNT	b	2462	Ant1	-59.88	-20	Pass
NVNT	g	2412	Ant1	-32.37	-20	Pass
NVNT	g	2462	Ant1	-41.76	-20	Pass
NVNT	n20	2412	Ant1	-30.71	-20	Pass
NVNT	n20	2462	Ant1	-40.42	-20	Pass
NVNT	n40	2422	Ant1	-34.16	-20	Pass
NVNT	n40	2452	Ant1	-37.13	-20	Pass

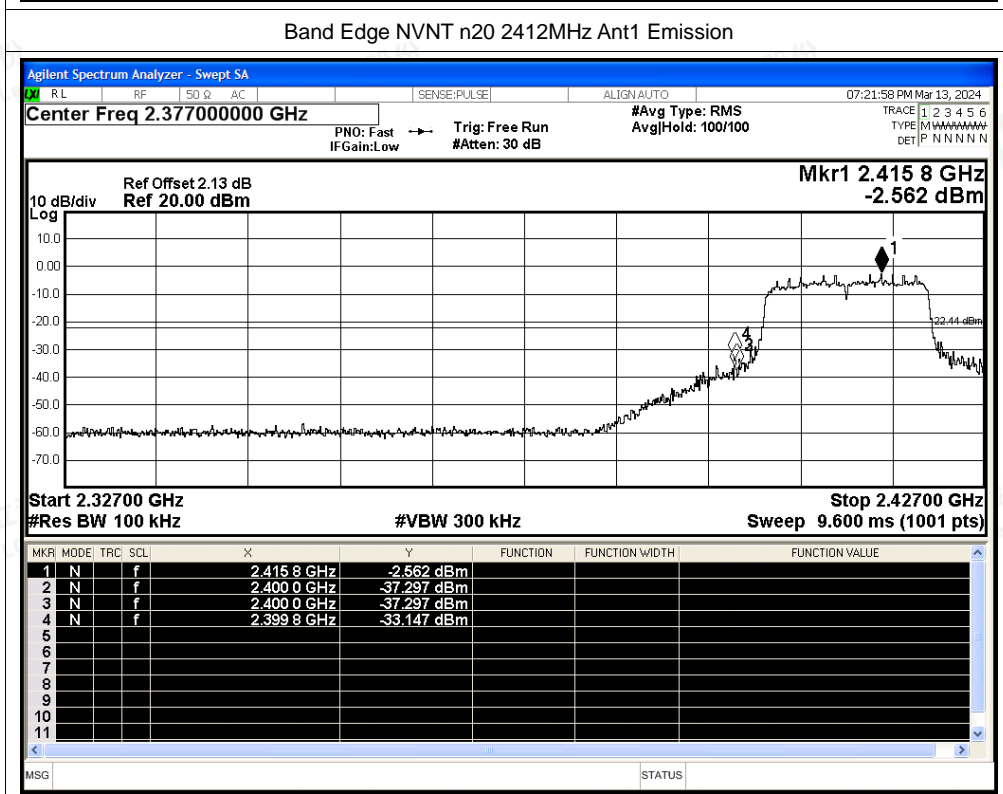
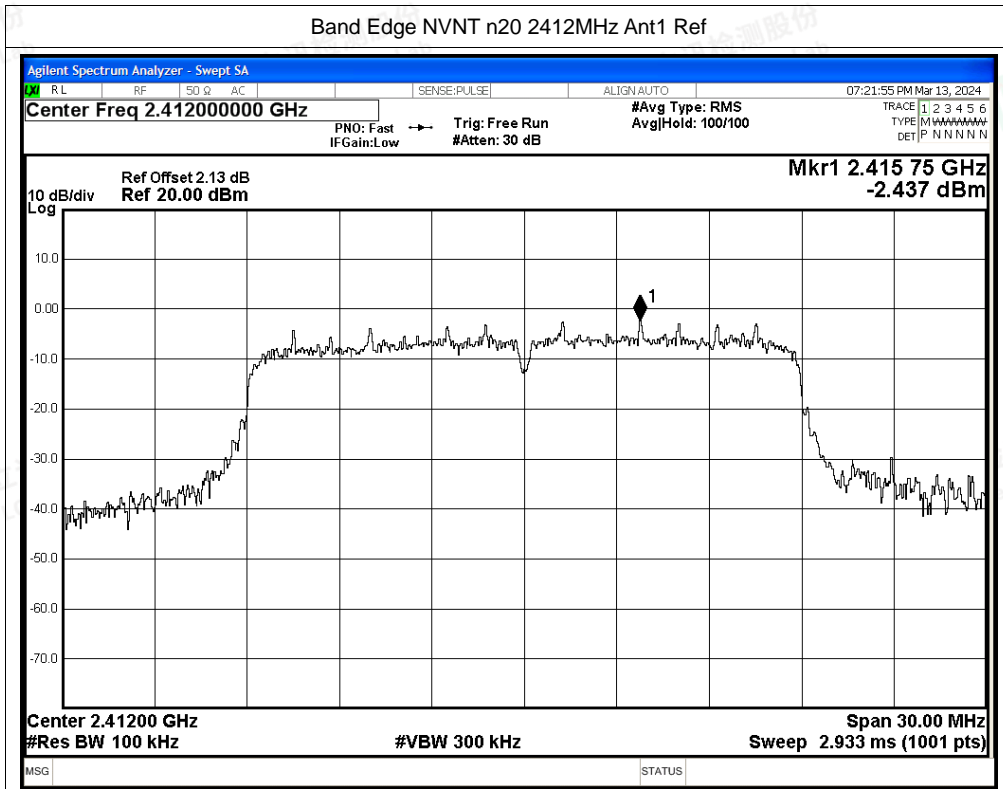


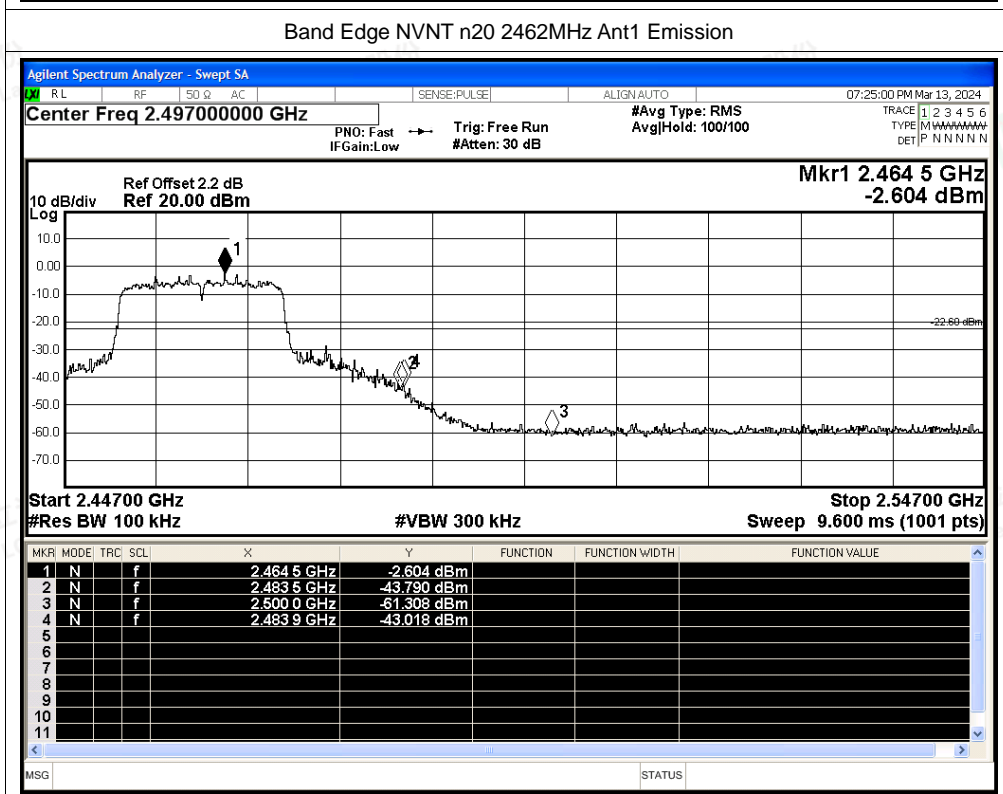
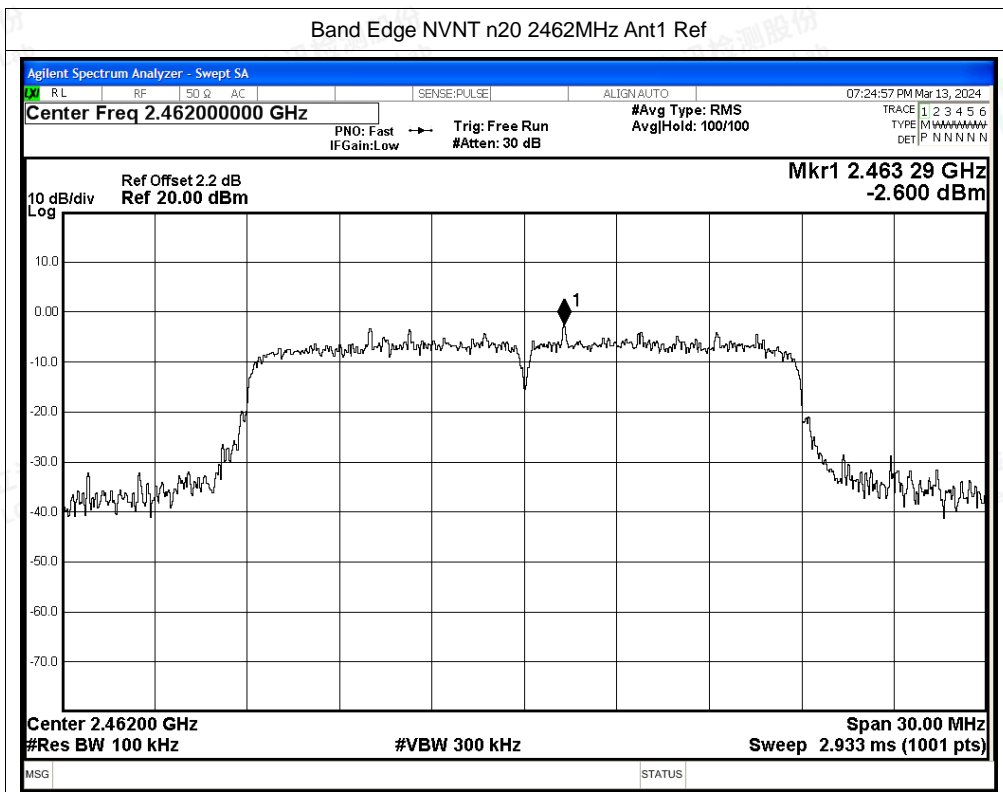


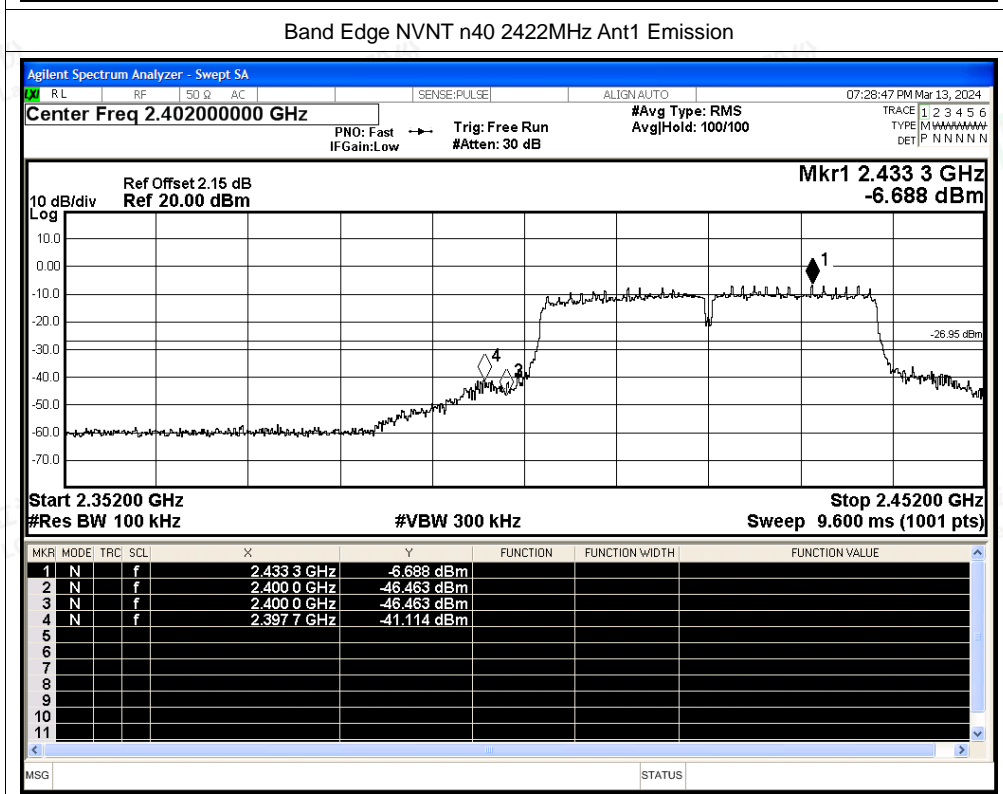
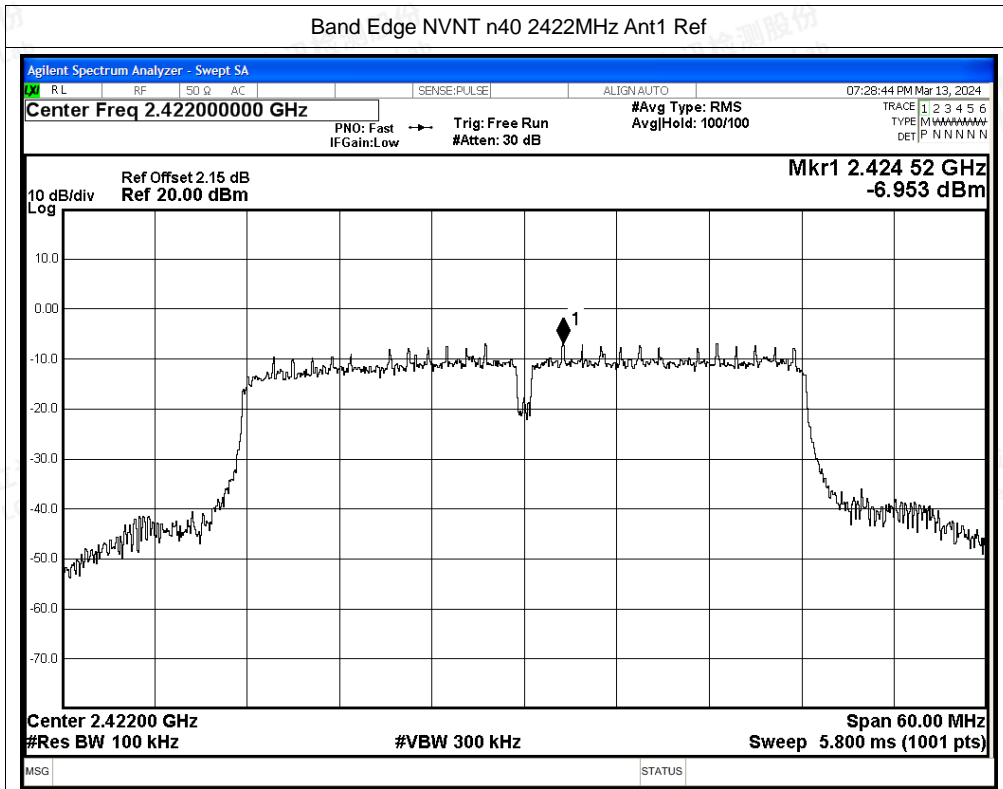


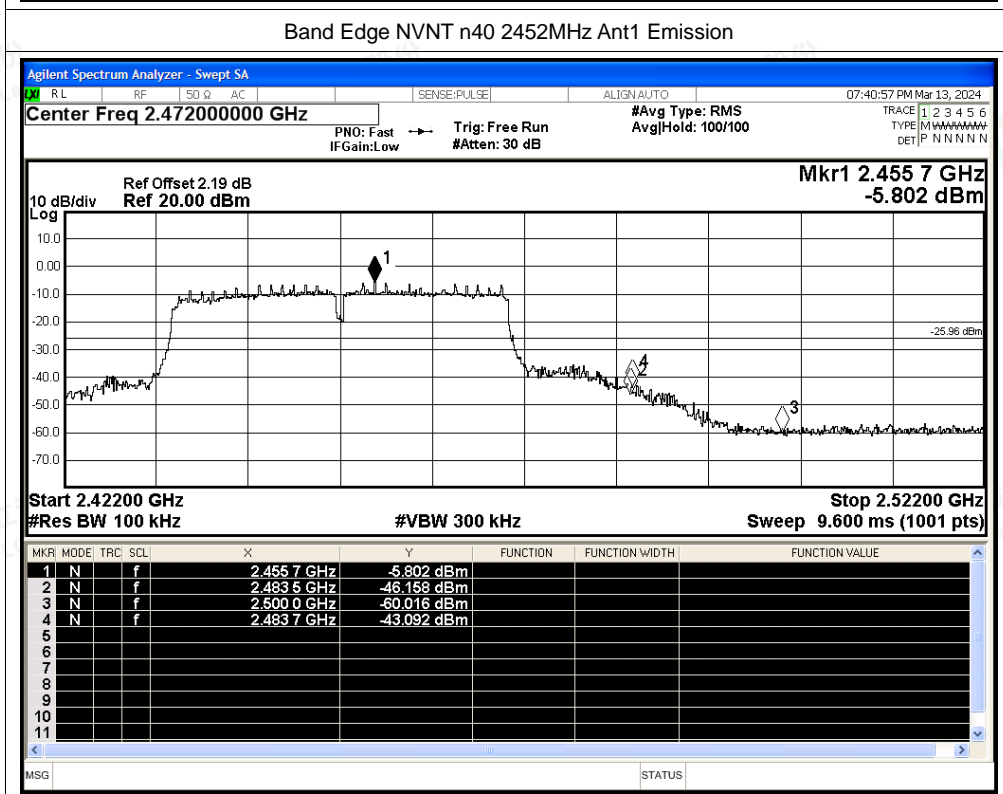
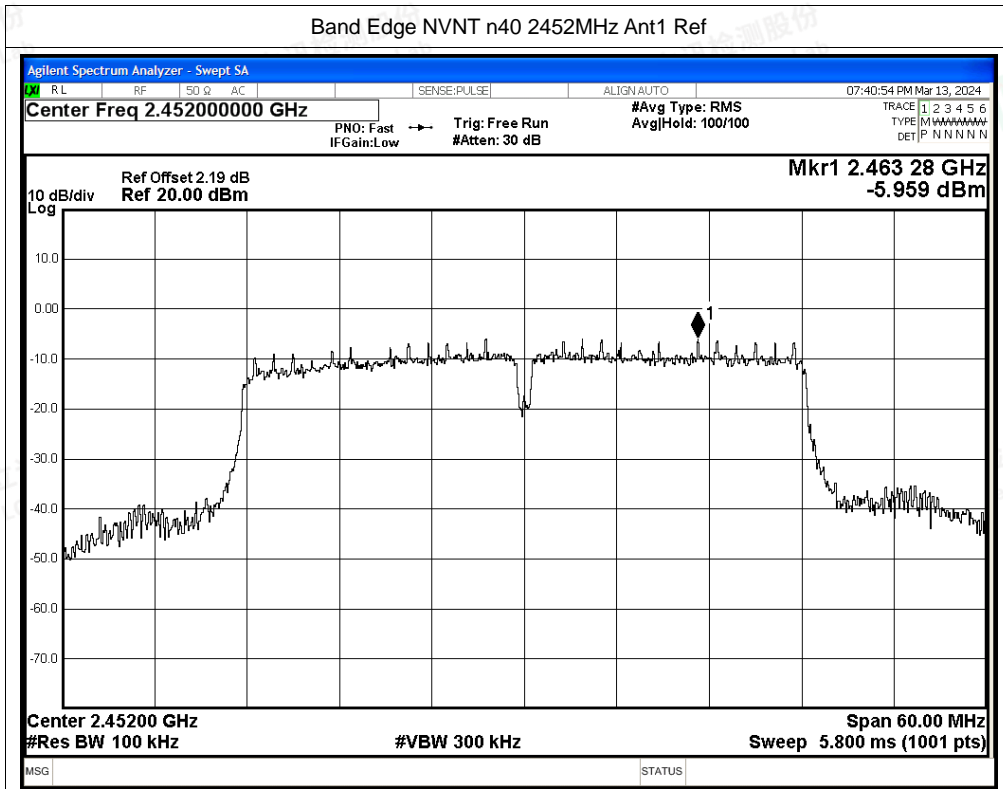








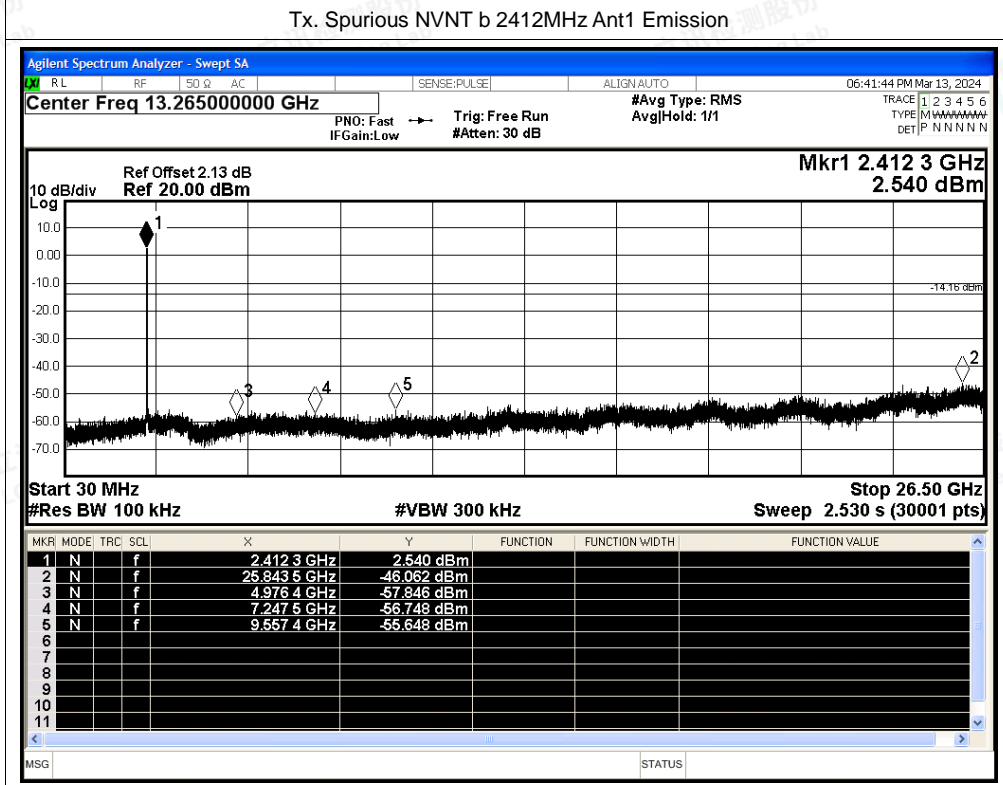
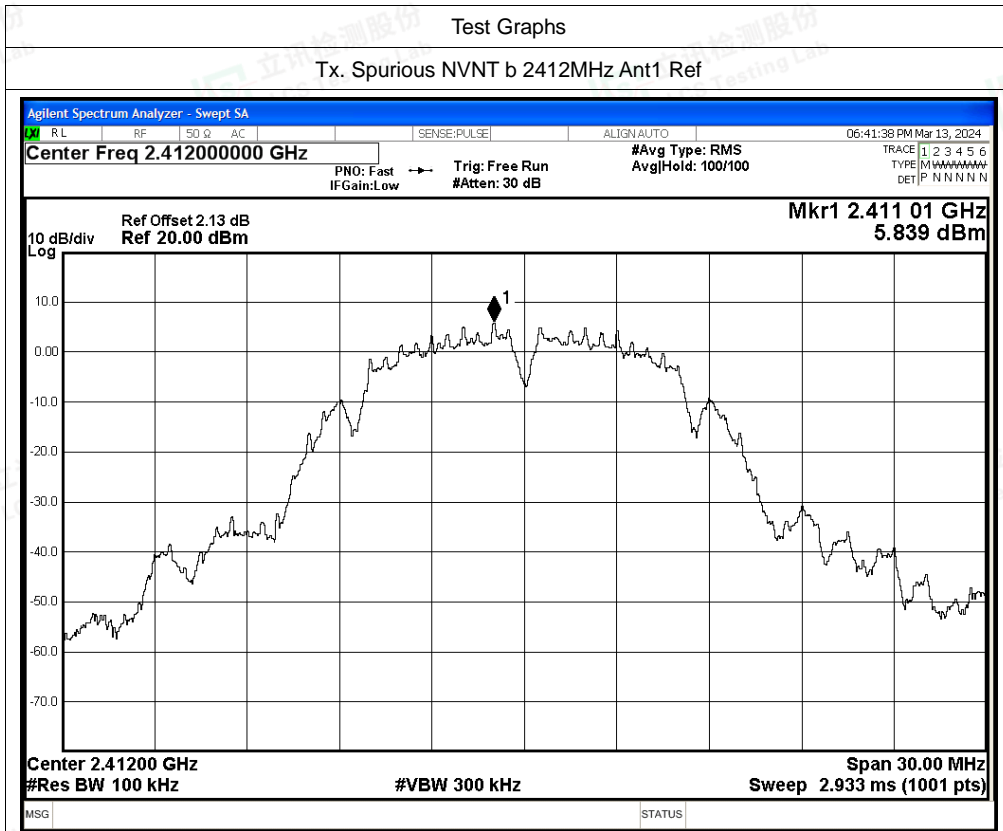




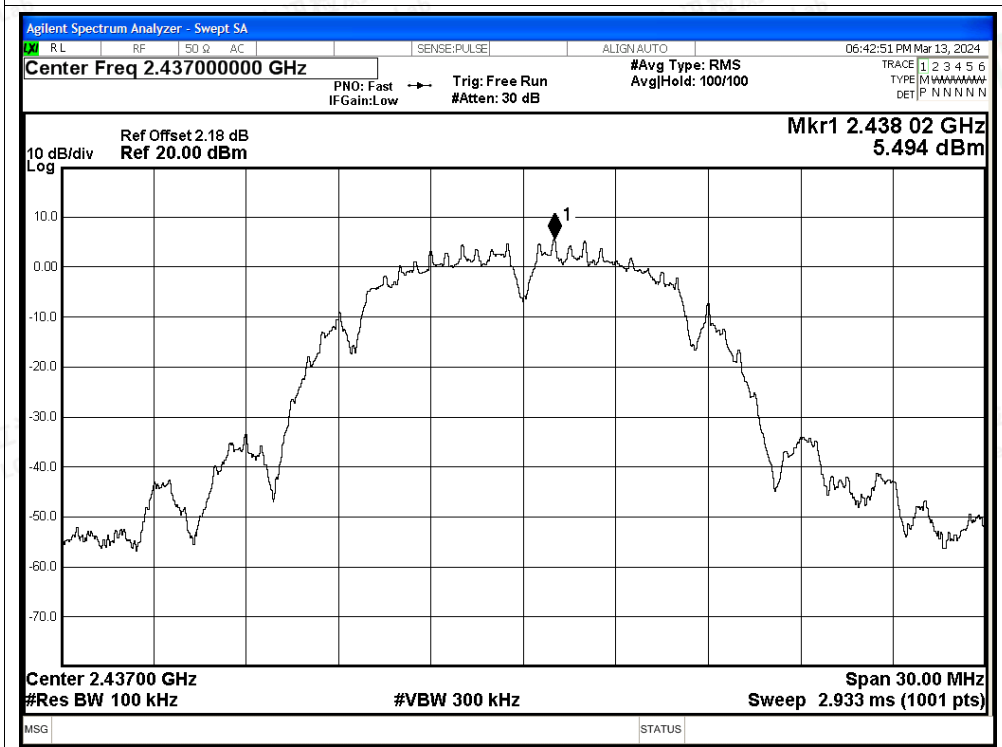
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.9	-20	Pass
NVNT	b	2437	Ant1	-51.31	-20	Pass
NVNT	b	2462	Ant1	-50.66	-20	Pass
NVNT	g	2412	Ant1	-44.16	-20	Pass
NVNT	g	2437	Ant1	-44.16	-20	Pass
NVNT	g	2462	Ant1	-44.78	-20	Pass
NVNT	n20	2412	Ant1	-43.05	-20	Pass
NVNT	n20	2437	Ant1	-43.83	-20	Pass
NVNT	n20	2462	Ant1	-44.02	-20	Pass
NVNT	n40	2422	Ant1	-39.07	-20	Pass
NVNT	n40	2437	Ant1	-39.83	-20	Pass
NVNT	n40	2452	Ant1	-40.95	-20	Pass

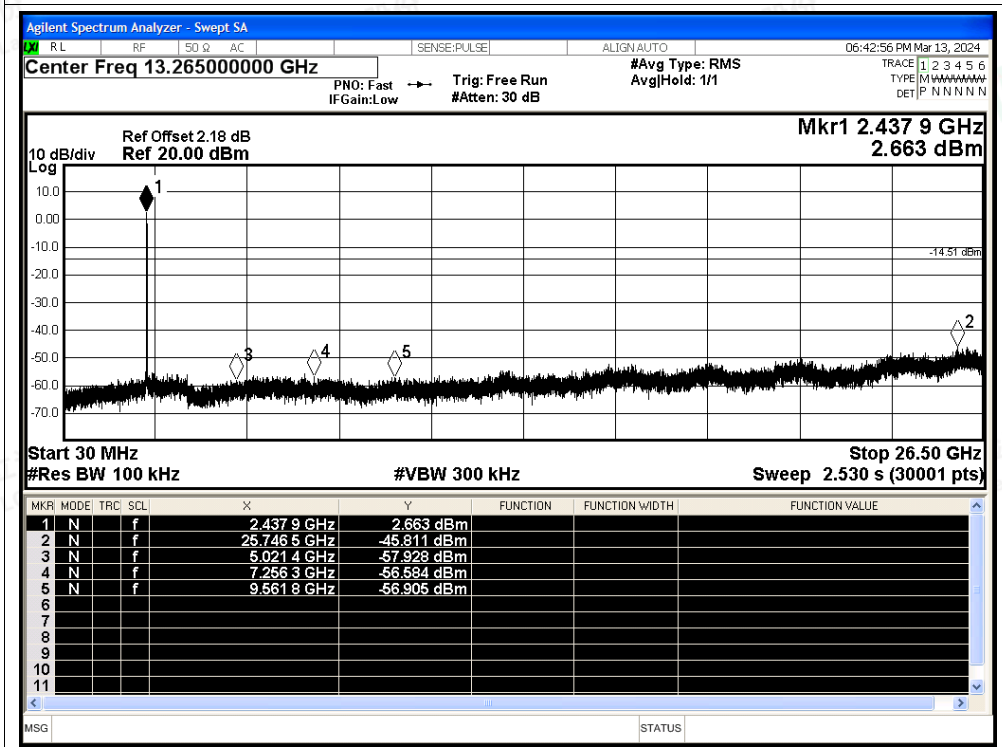


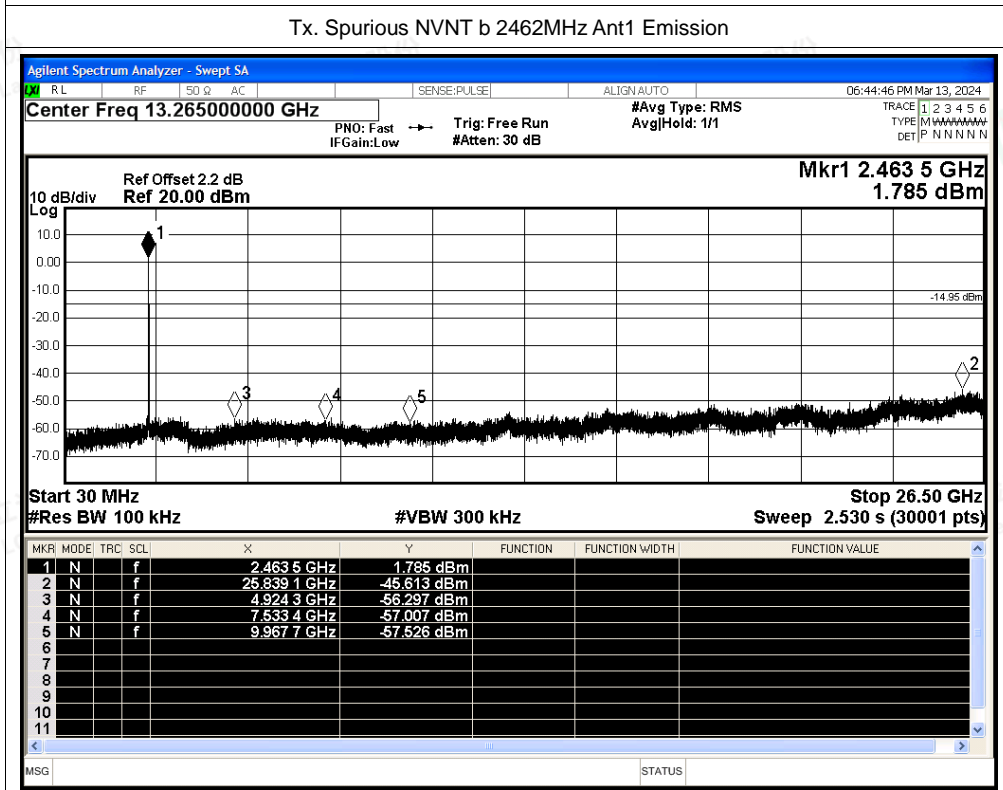
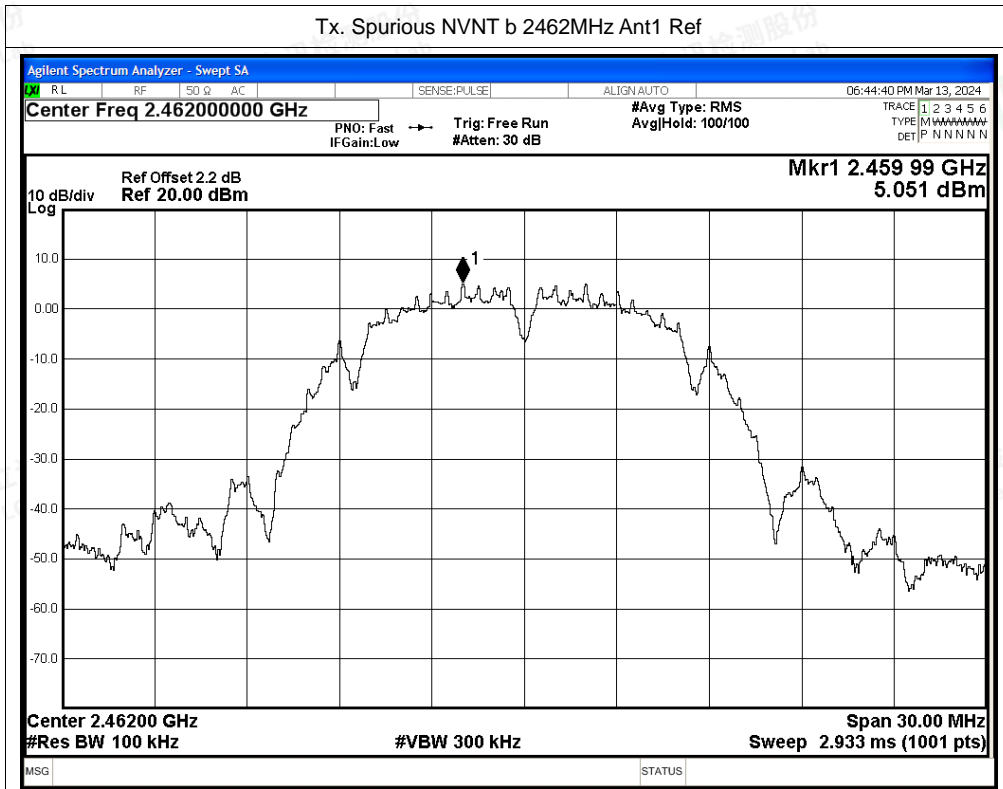


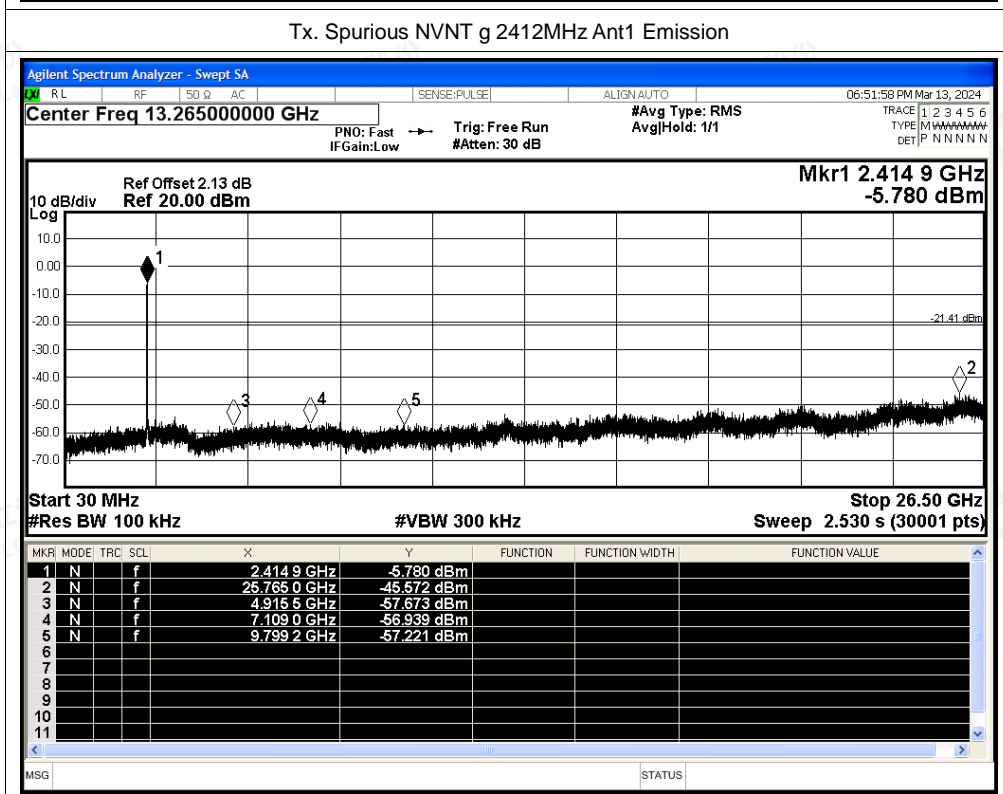
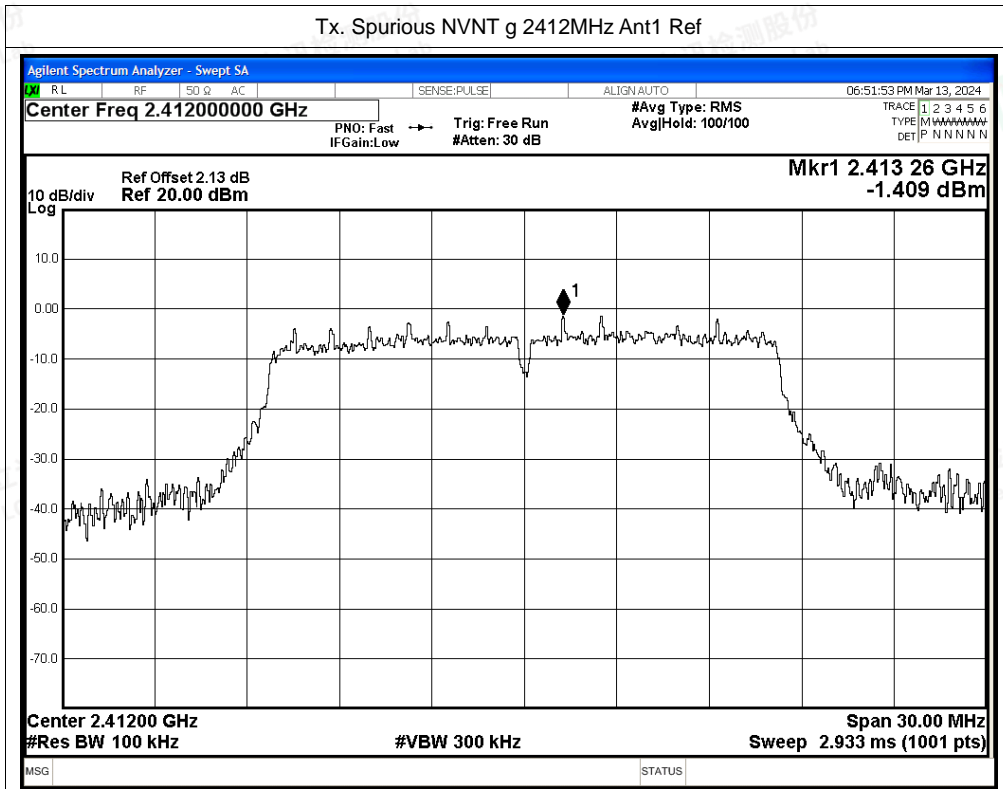
Tx. Spurious NVNT b 2437MHz Ant1 Ref

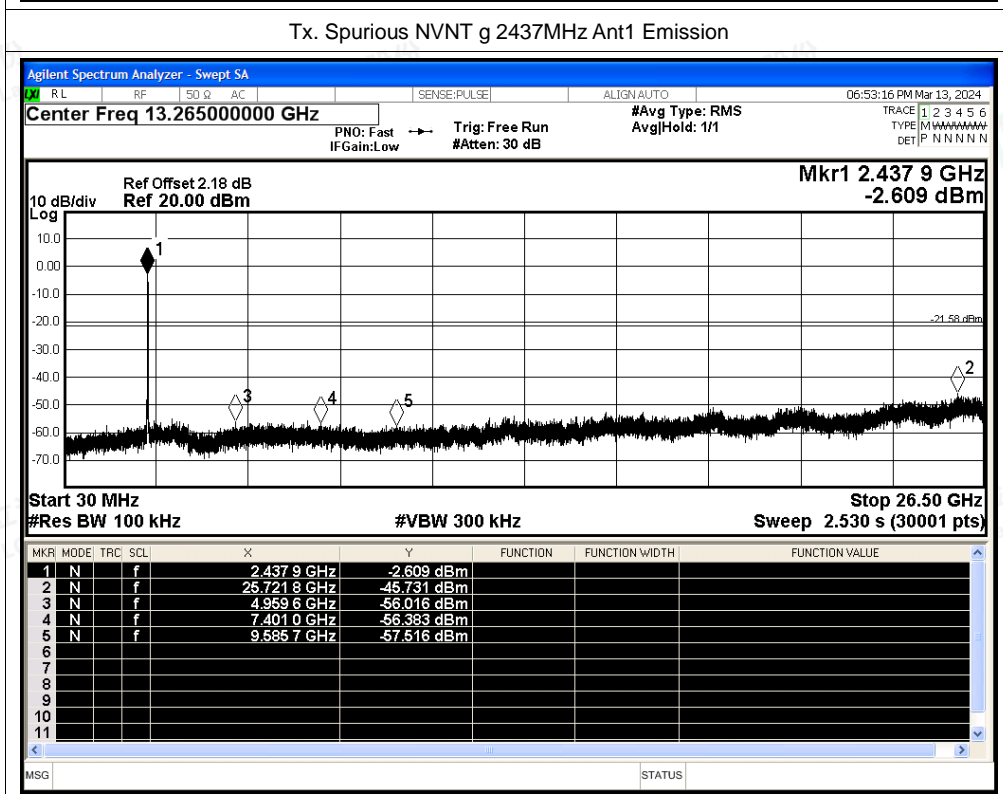
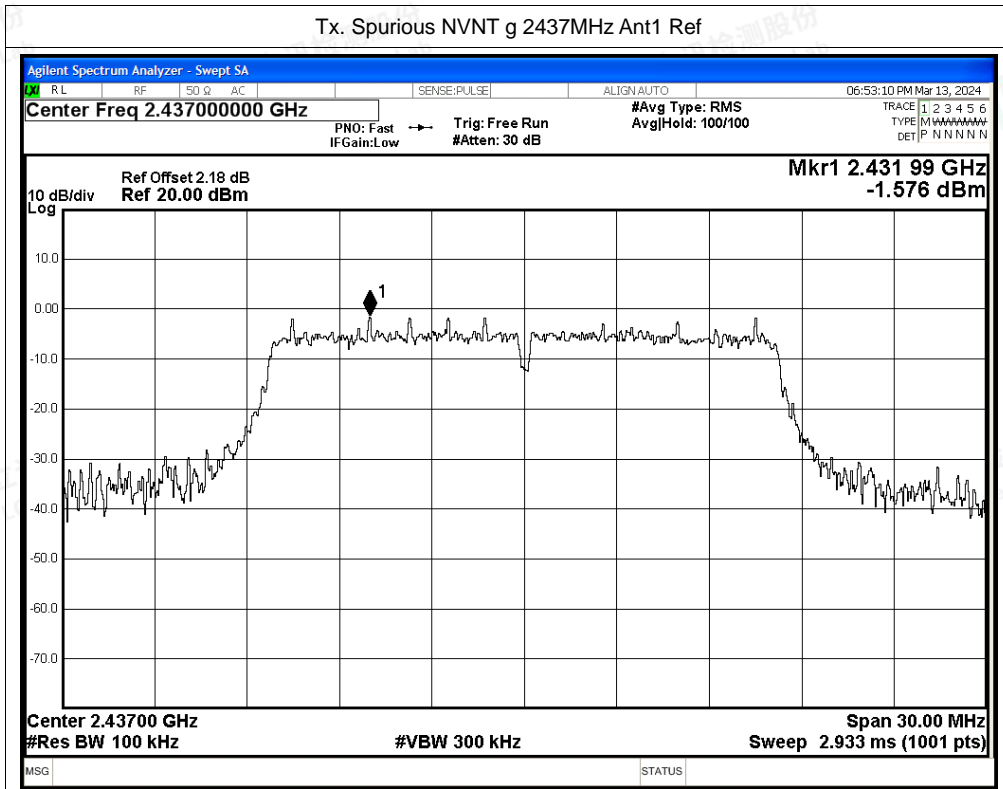


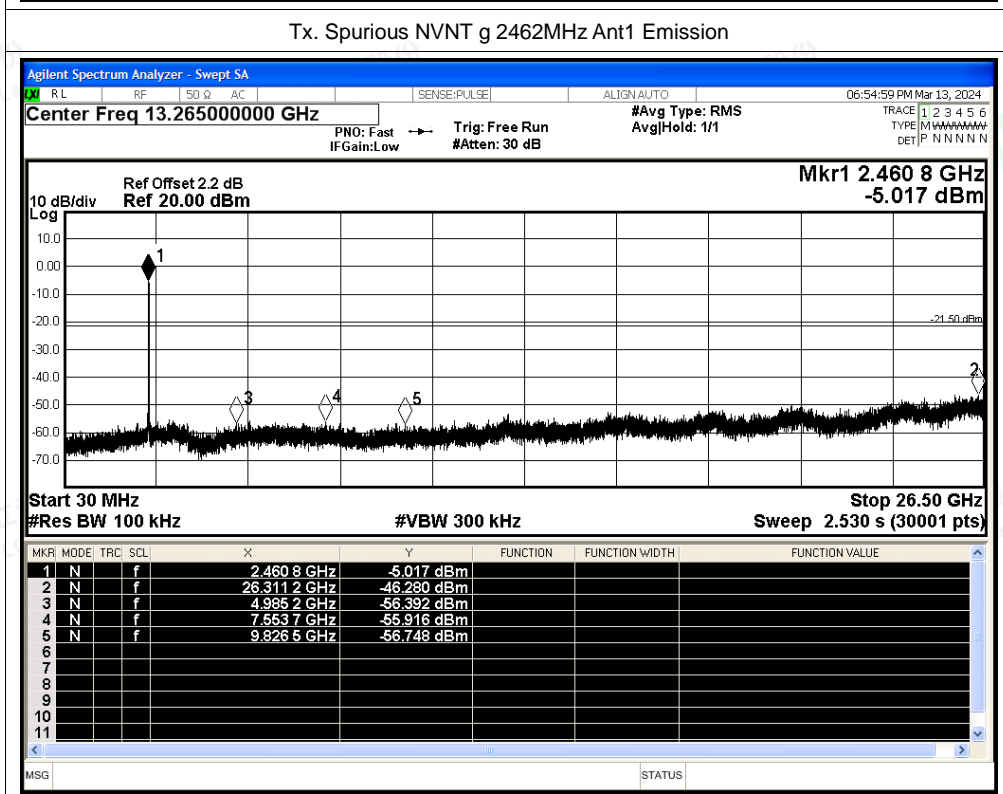
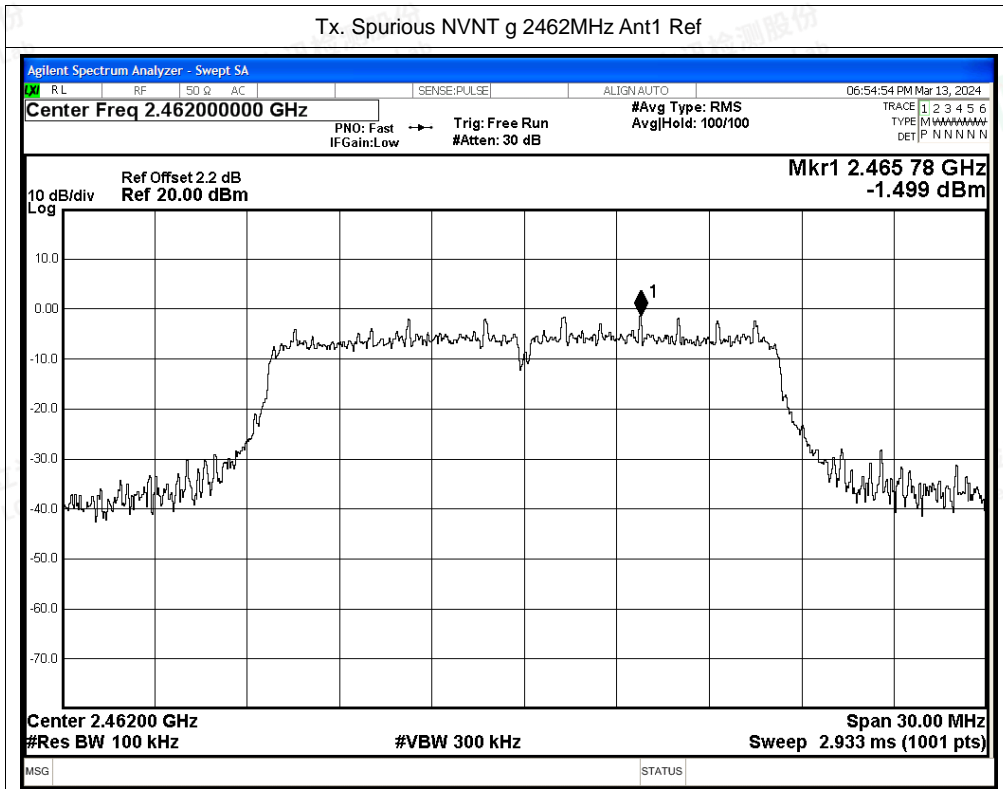
Tx. Spurious NVNT b 2437MHz Ant1 Emission

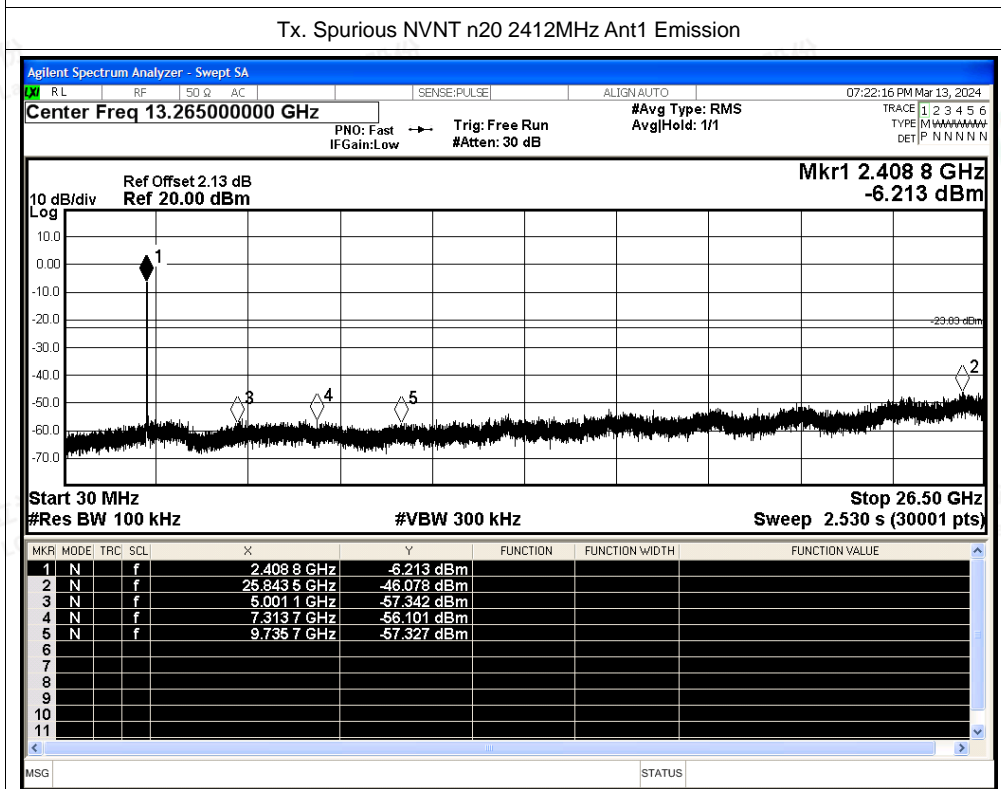
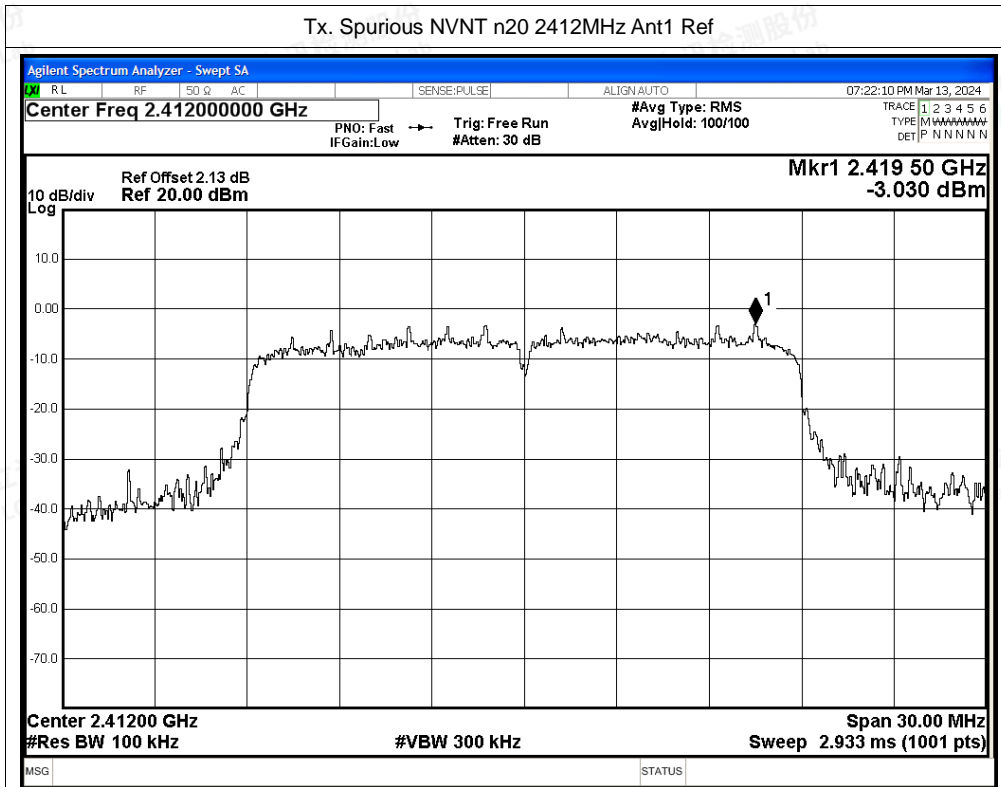




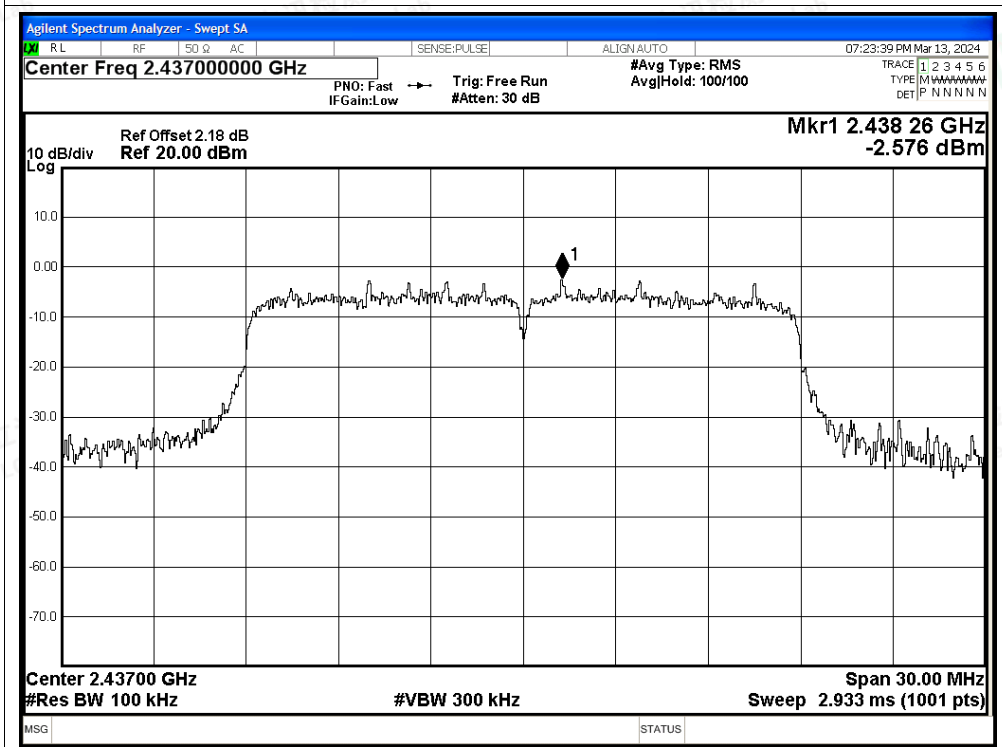




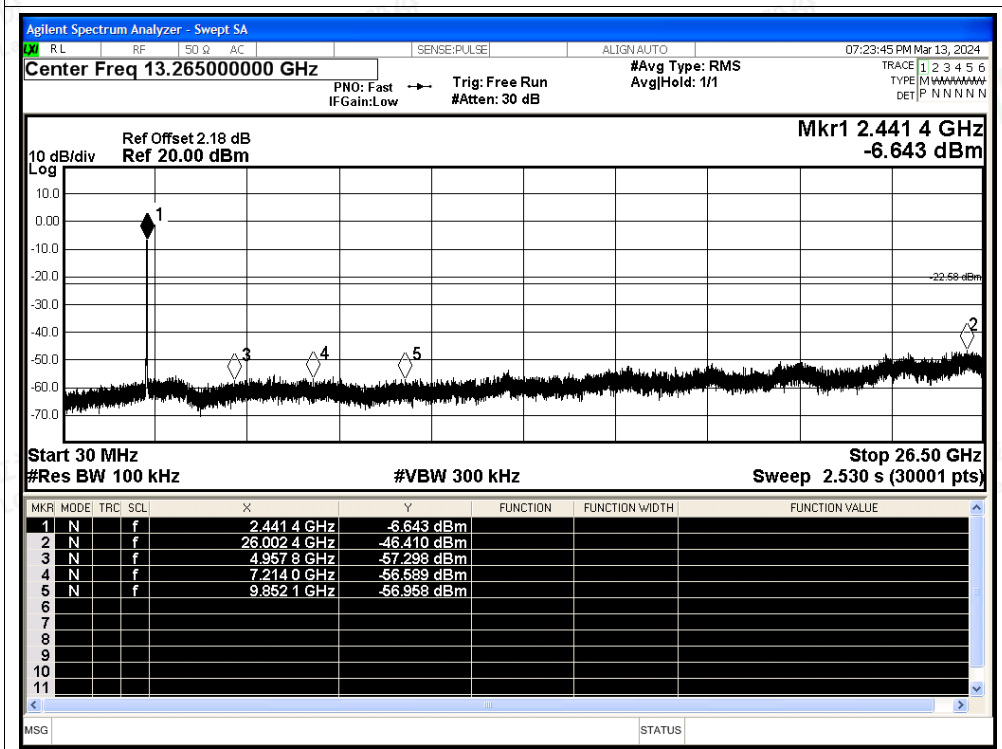


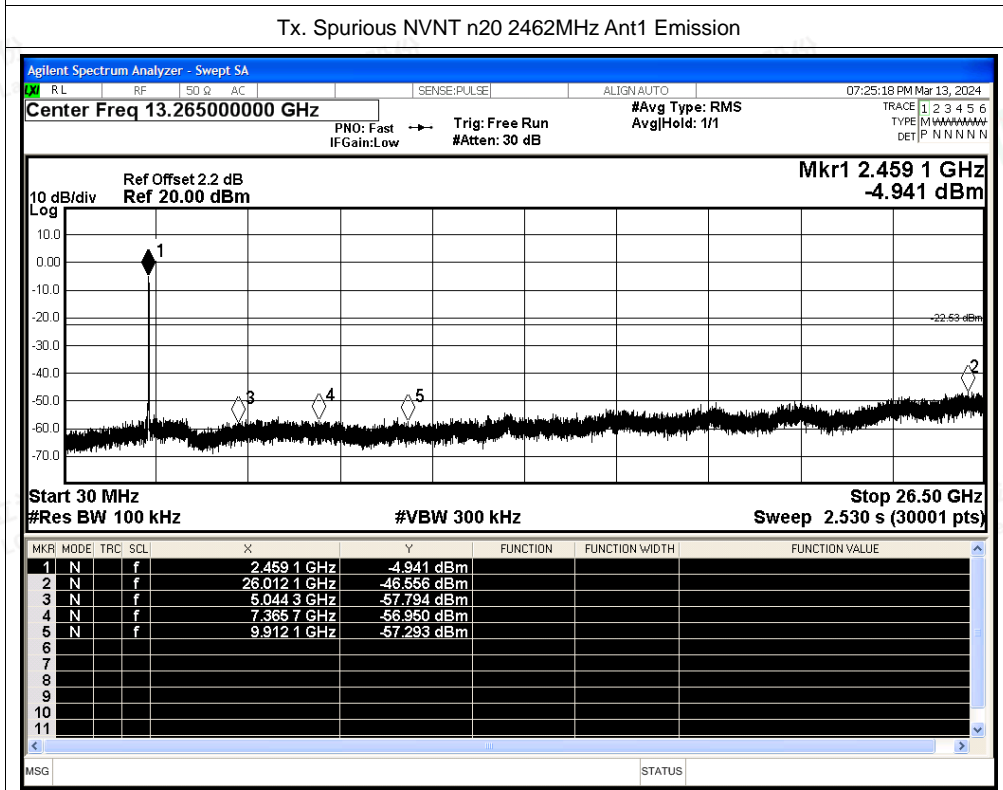
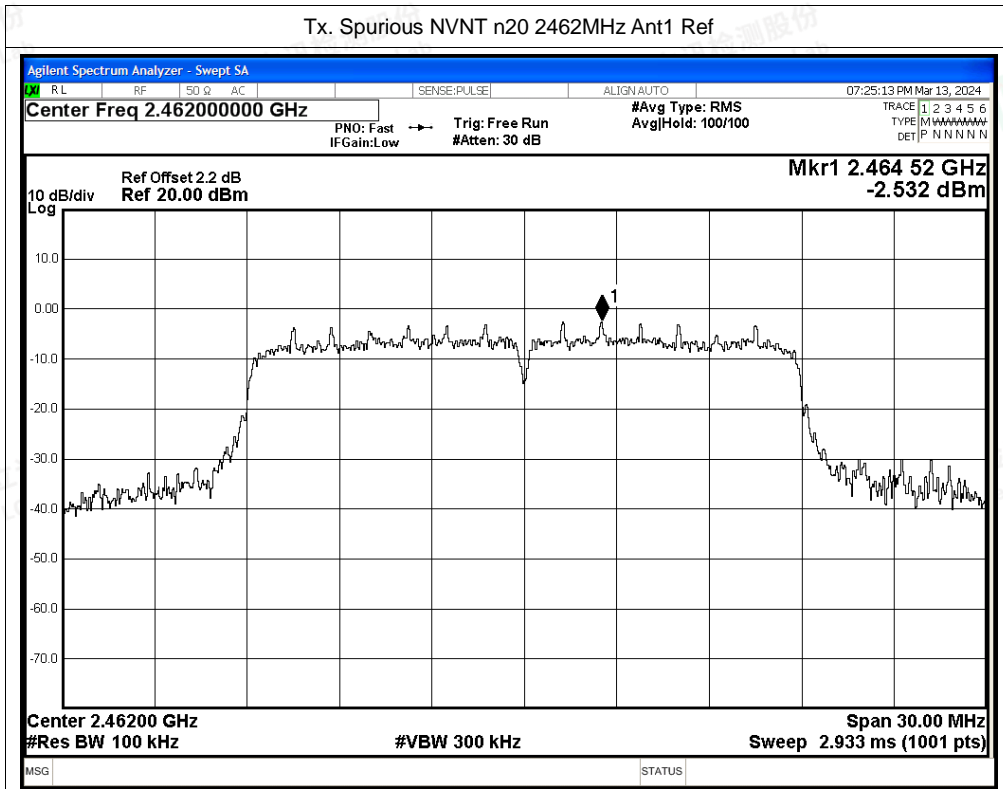


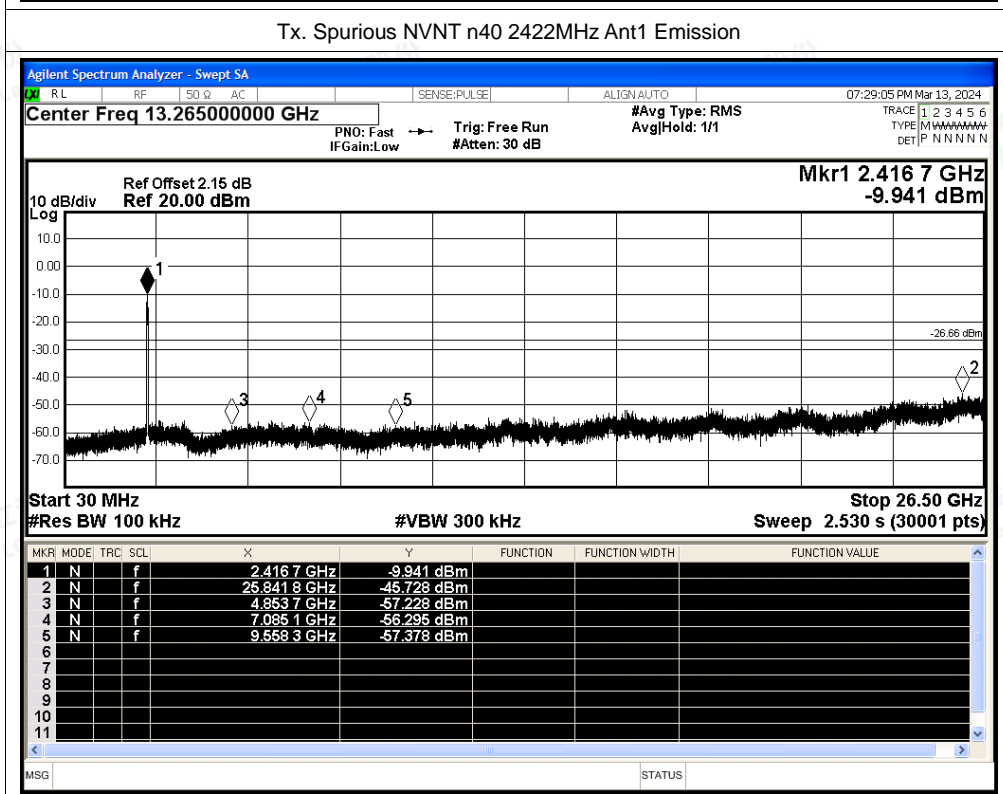
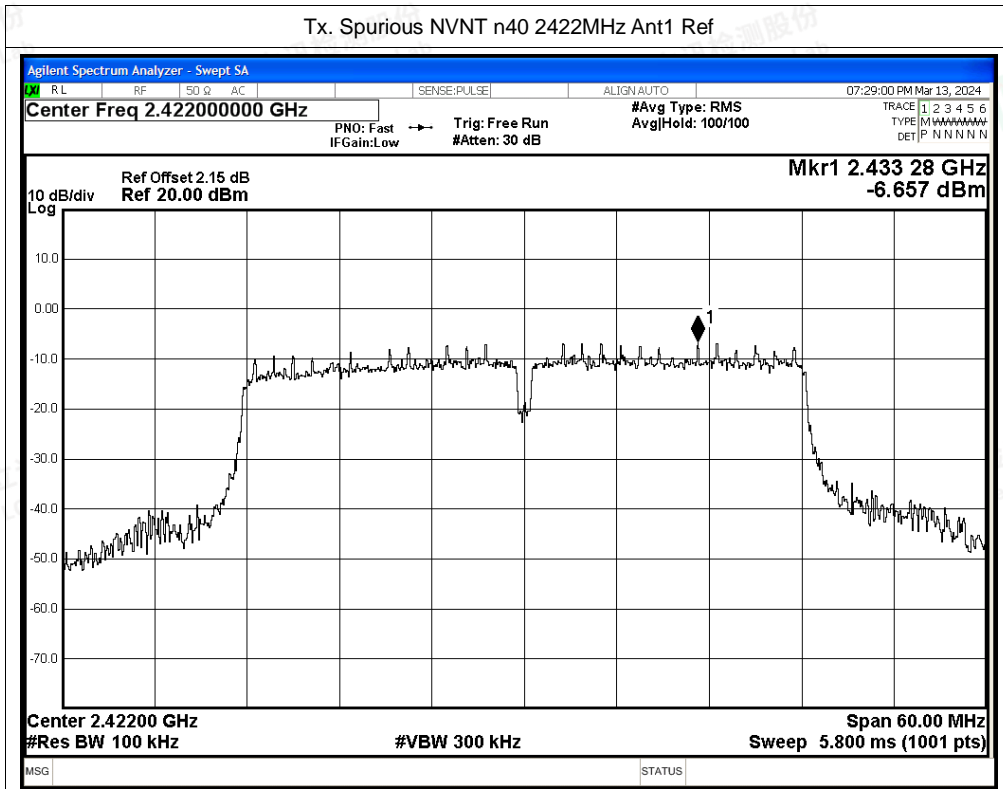
Tx. Spurious NVNT n20 2437MHz Ant1 Ref

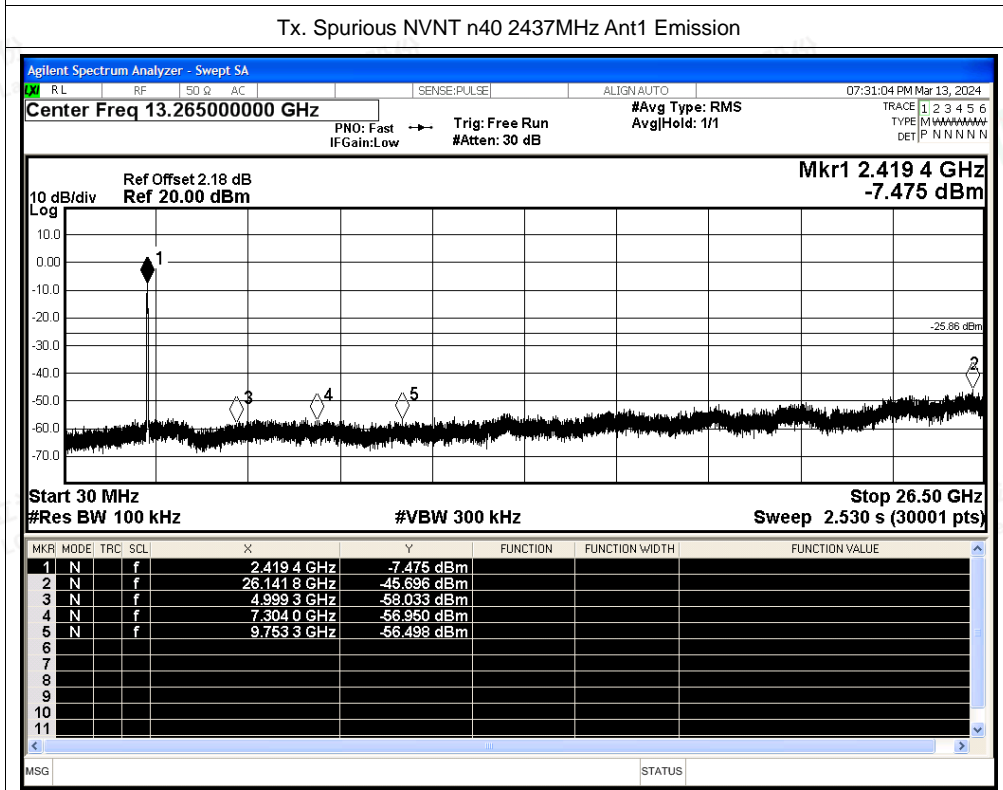
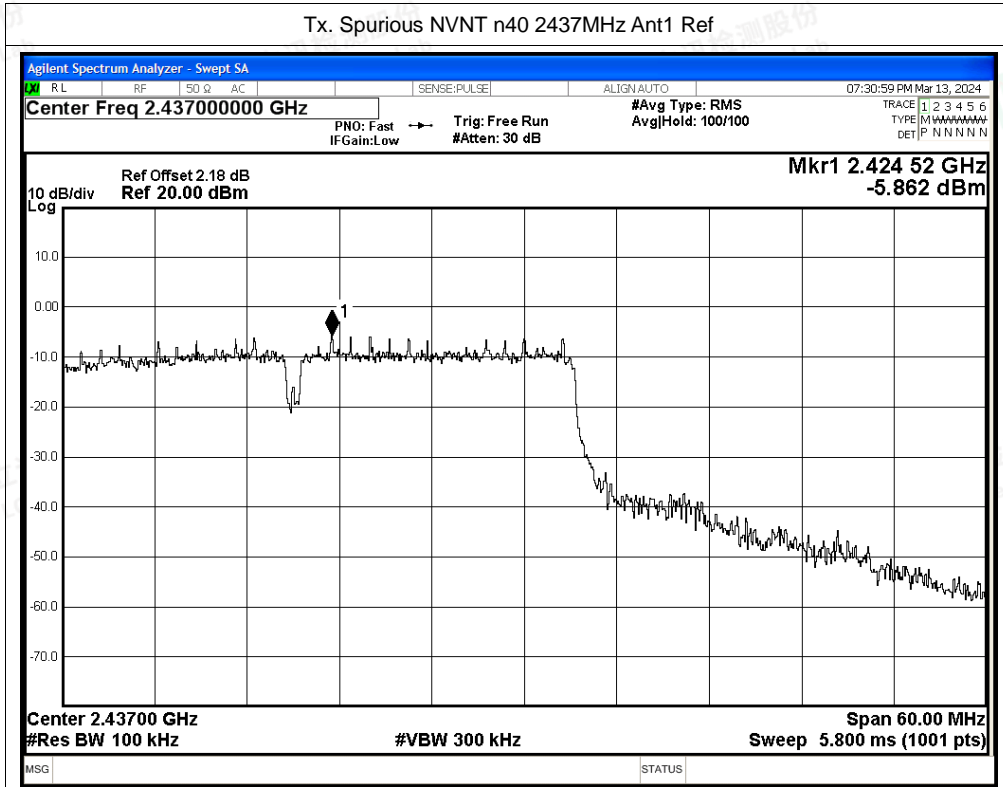


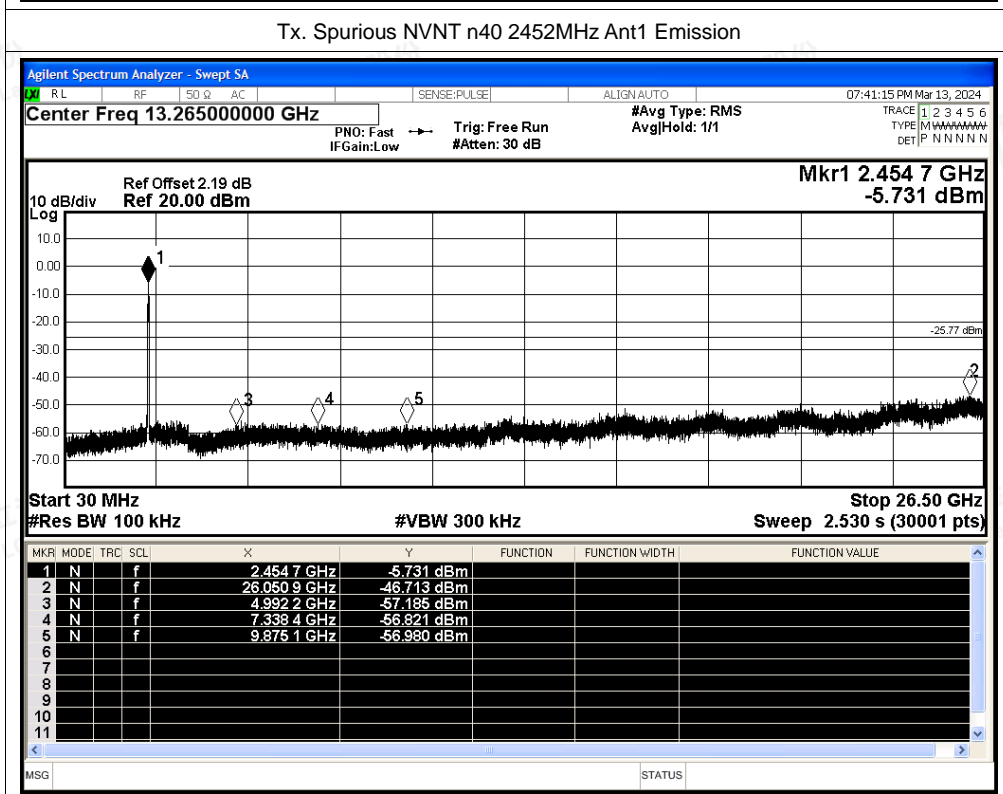
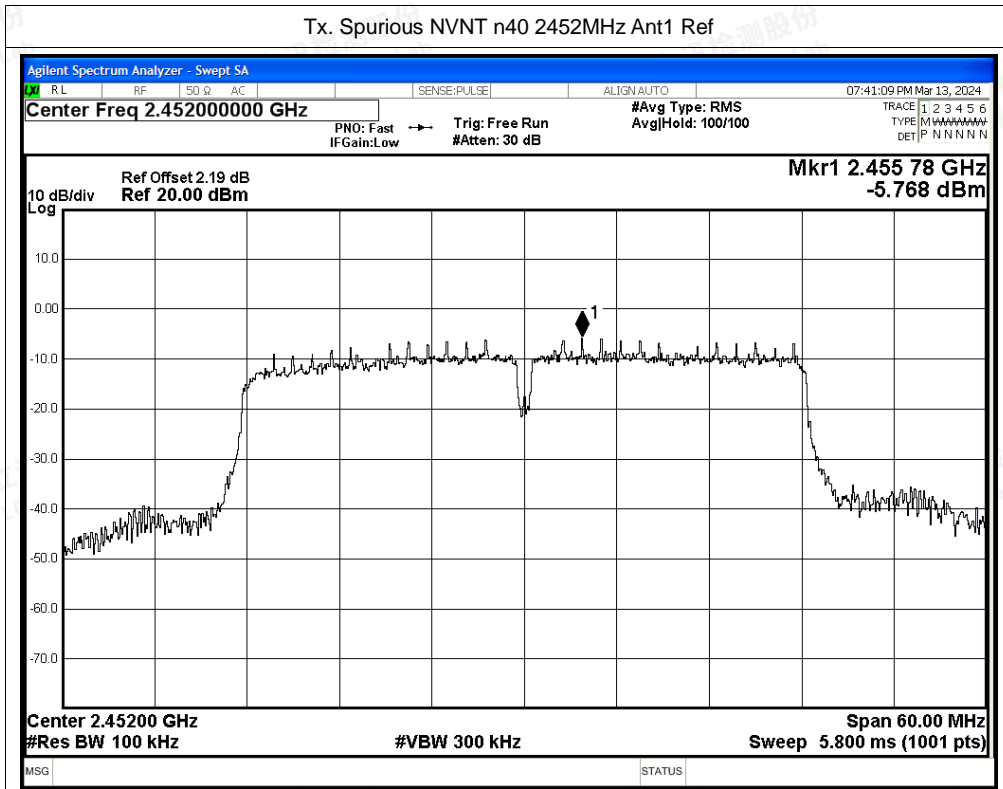
Tx. Spurious NVNT n20 2437MHz Ant1 Emission











B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.69	0	0.24
NVNT	b	2437	Ant1	98.65	0	0.24
NVNT	b	2462	Ant1	98.69	0	0.24
NVNT	g	2412	Ant1	91.82	0.37	1.44
NVNT	g	2437	Ant1	91.82	0.37	1.44
NVNT	g	2462	Ant1	91.82	0.37	1.44
NVNT	n20	2412	Ant1	90.33	0.44	1.67
NVNT	n20	2437	Ant1	90.61	0.43	1.67
NVNT	n20	2462	Ant1	90.33	0.44	1.67
NVNT	n40	2422	Ant1	83.33	0.79	3.23
NVNT	n40	2437	Ant1	83.33	0.79	3.23
NVNT	n40	2452	Ant1	83.33	0.79	3.23

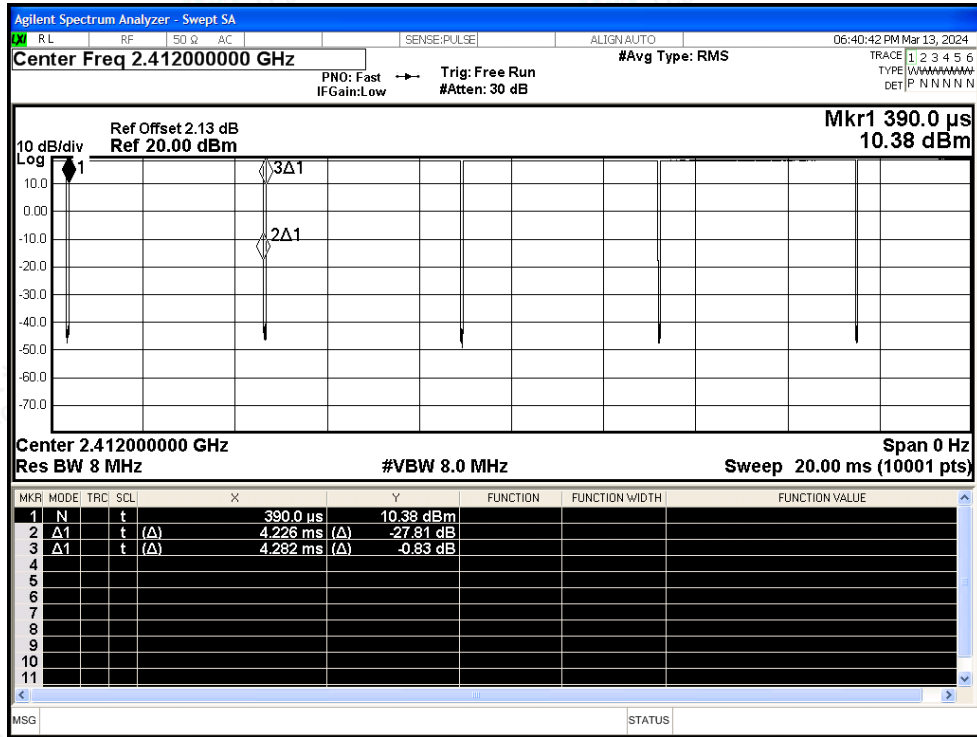




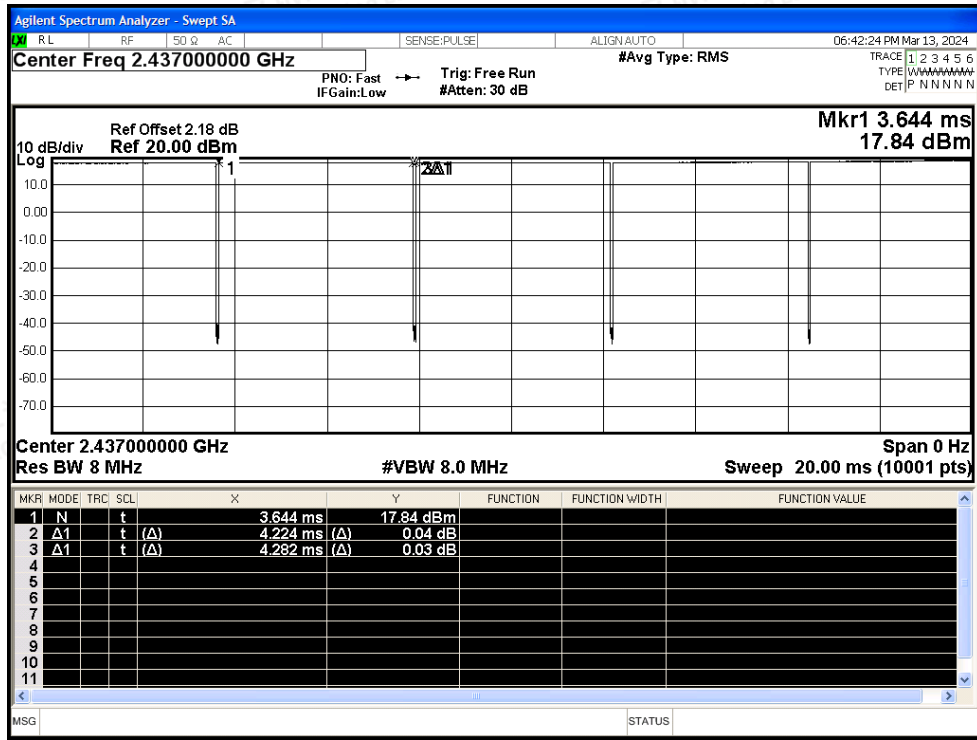
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Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

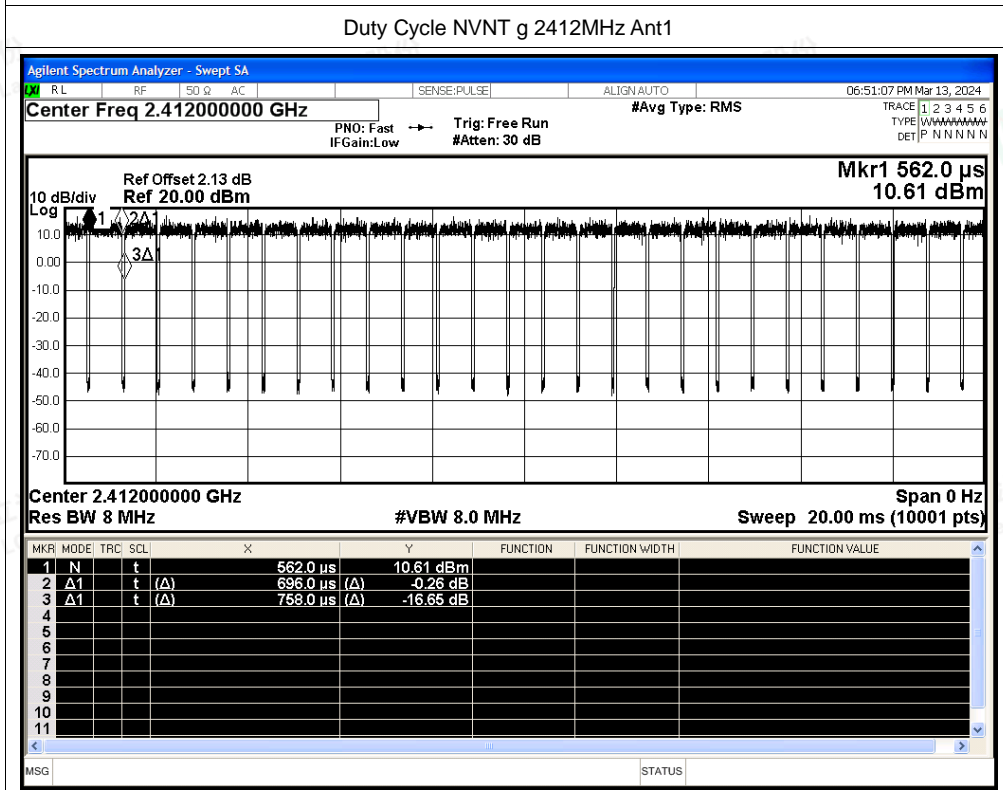
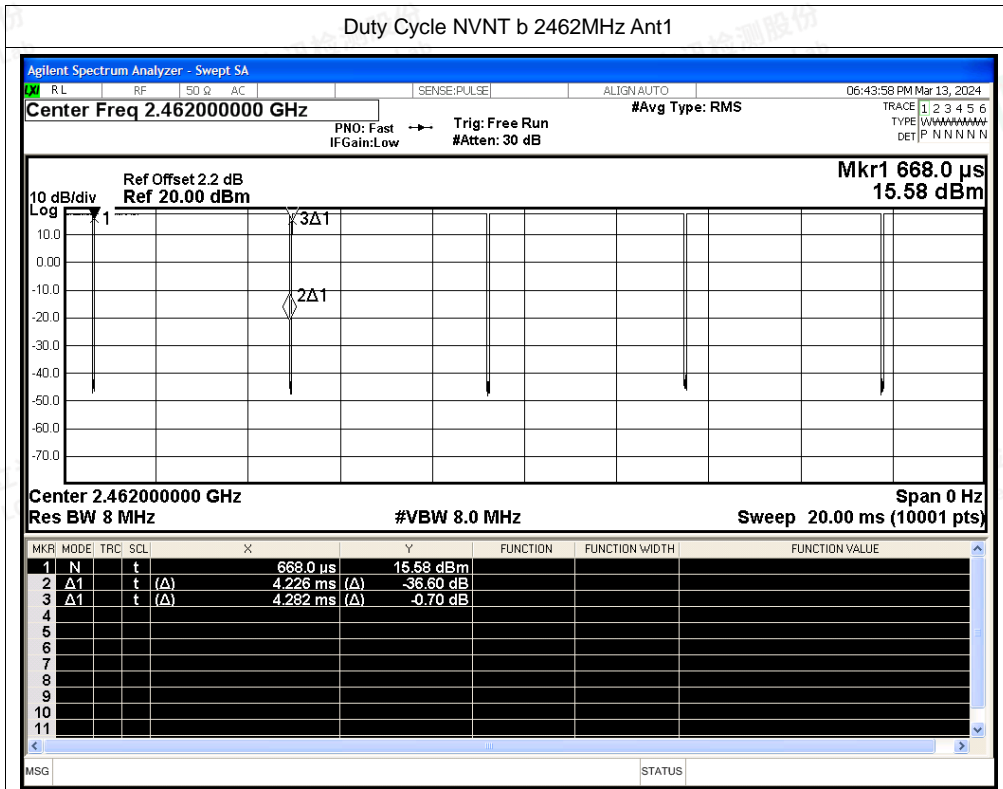


Duty Cycle NVNT b 2437MHz Ant1



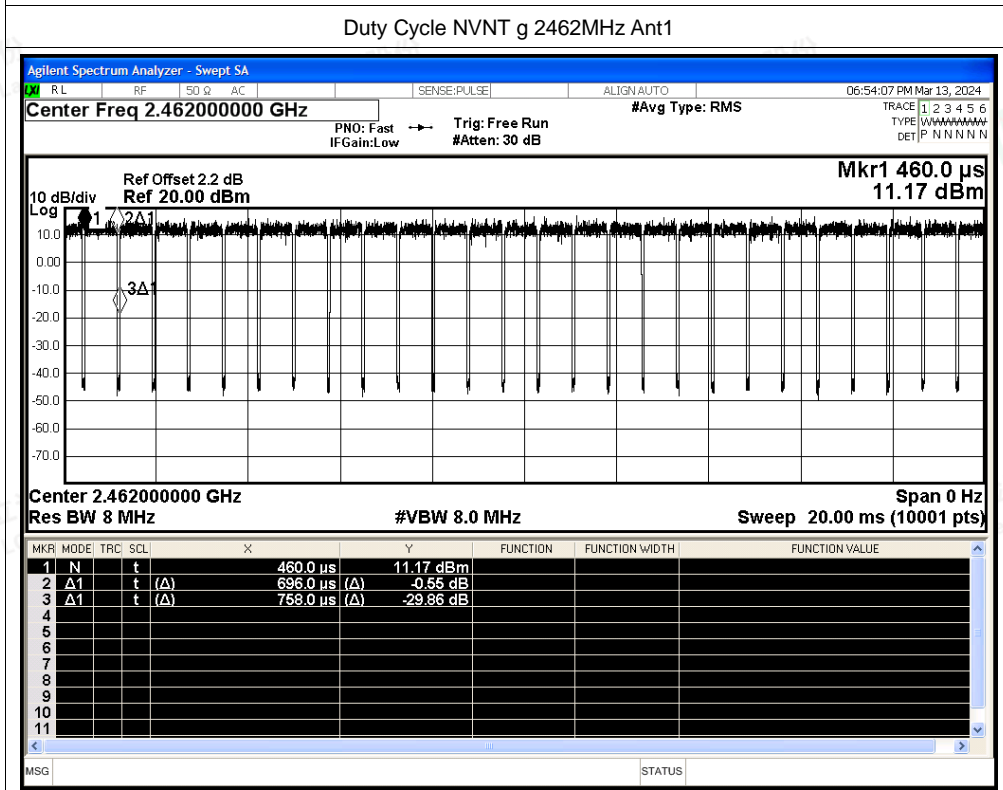
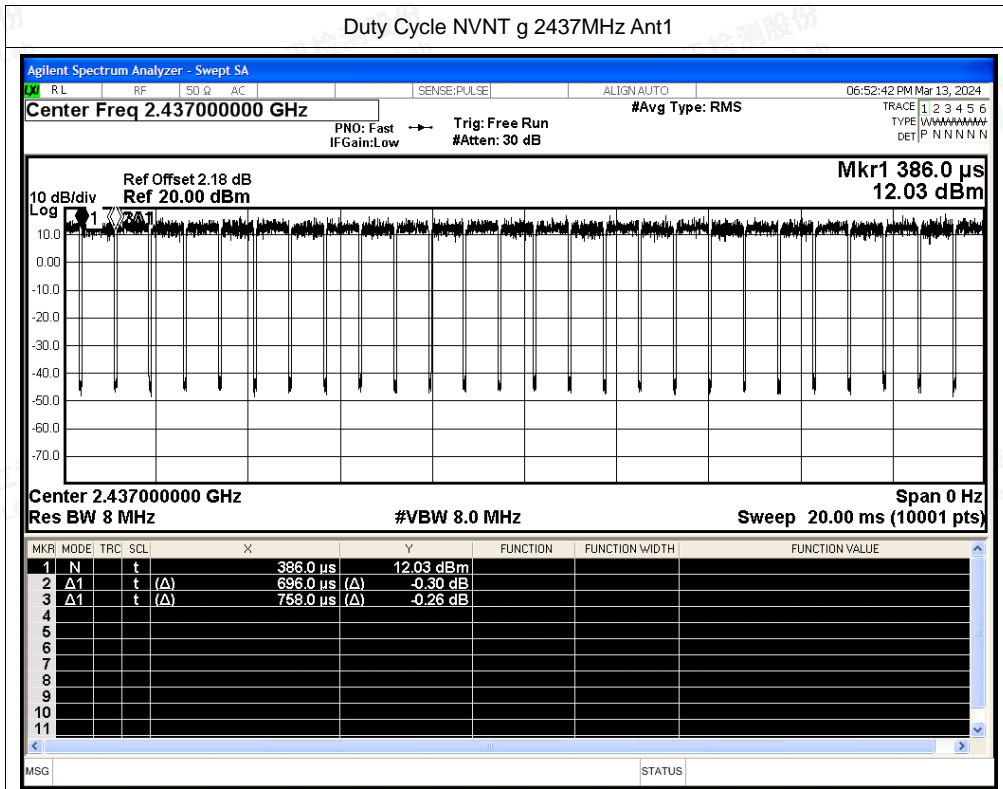


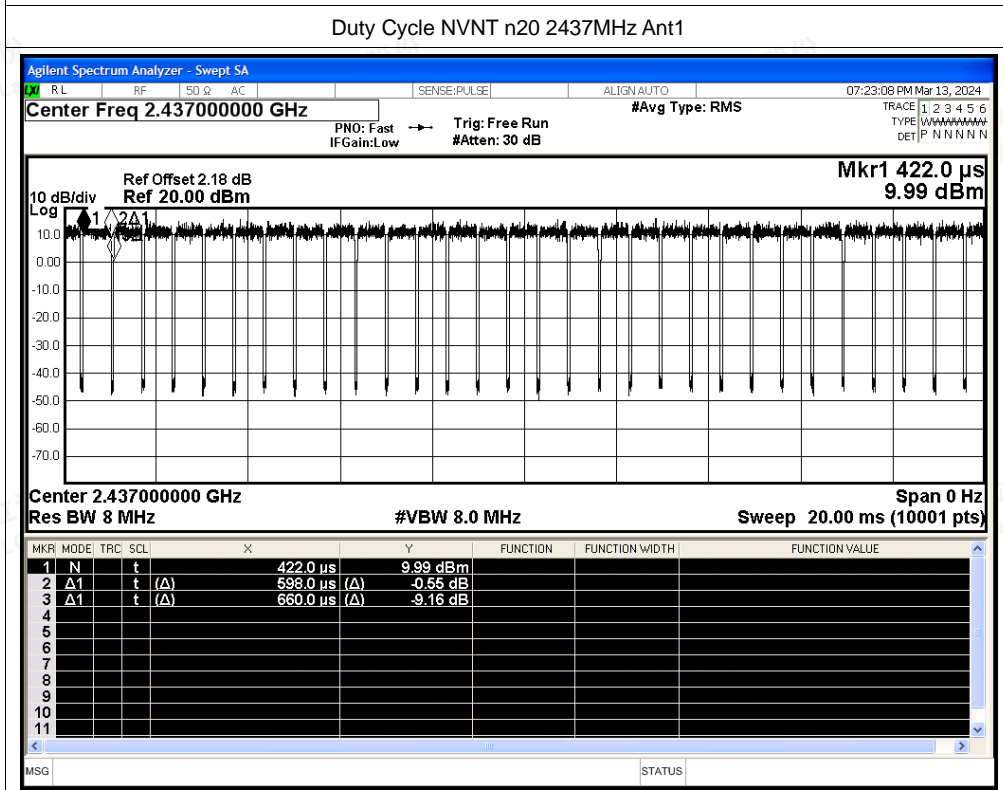
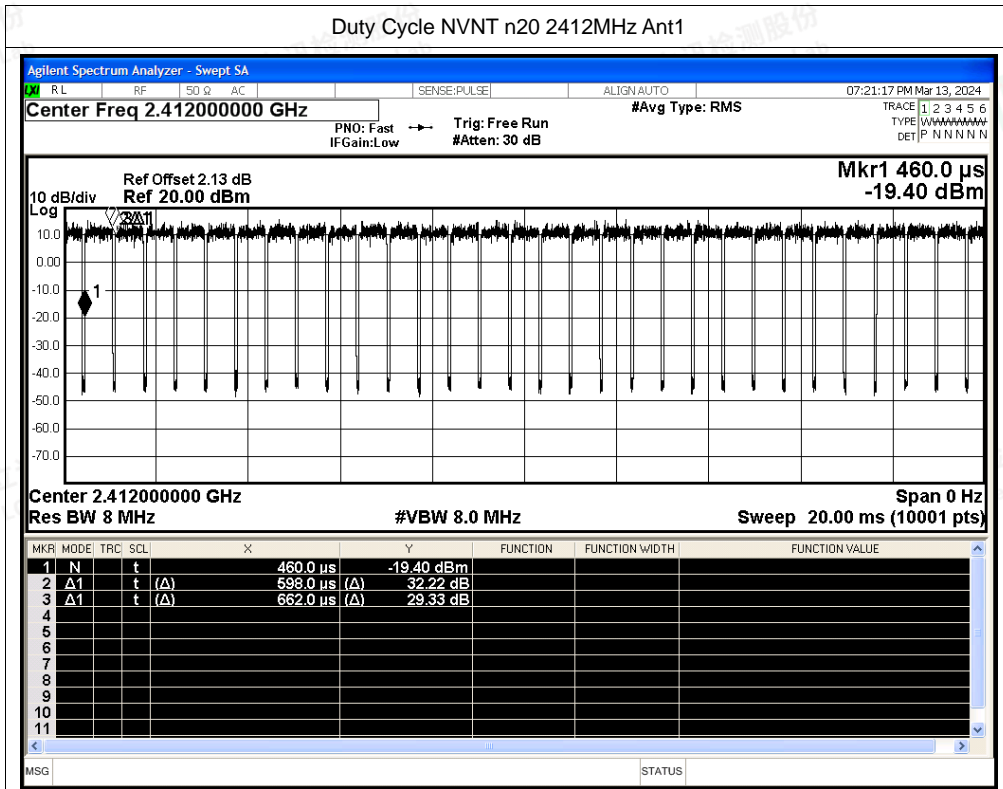
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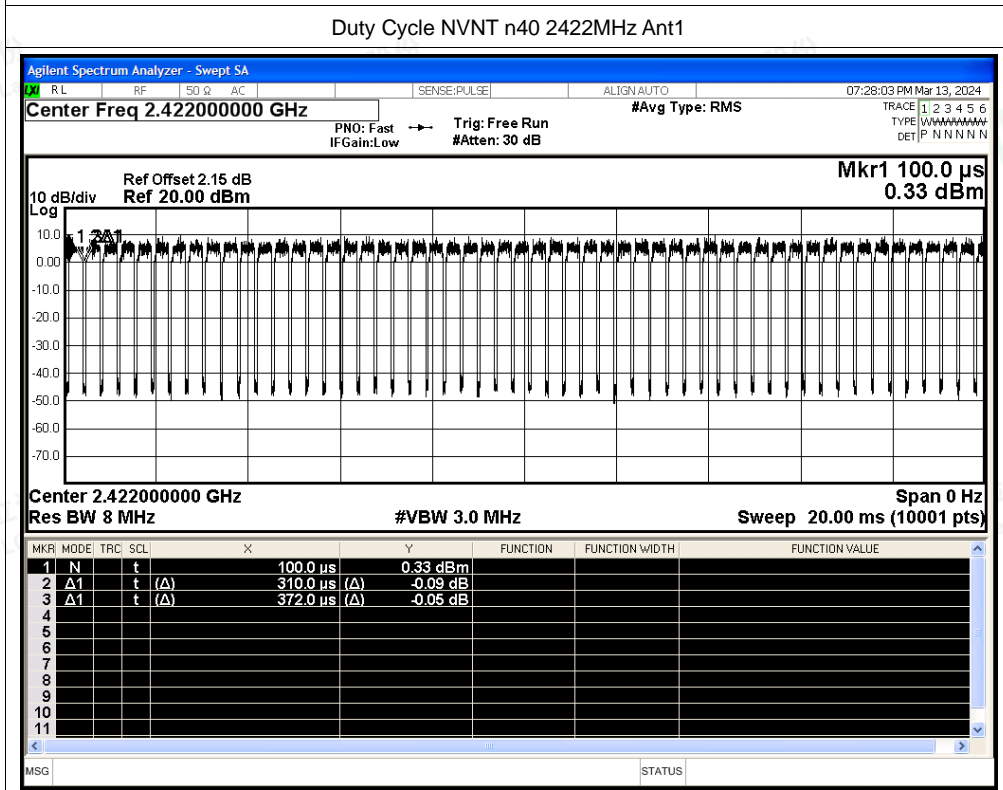
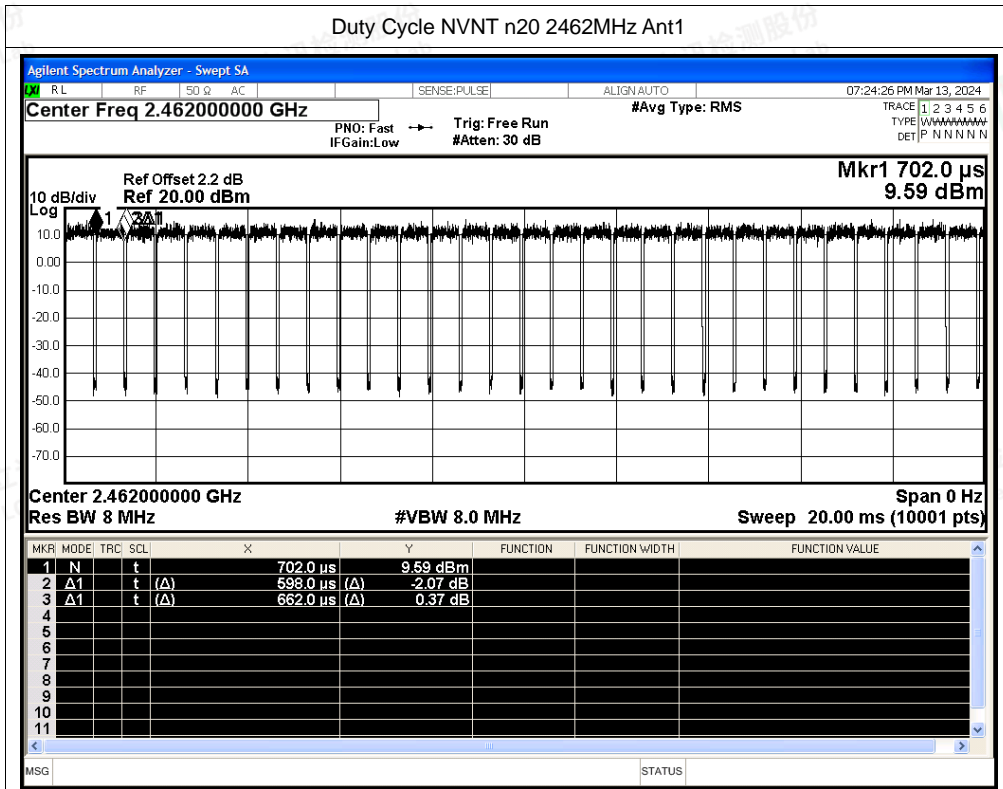


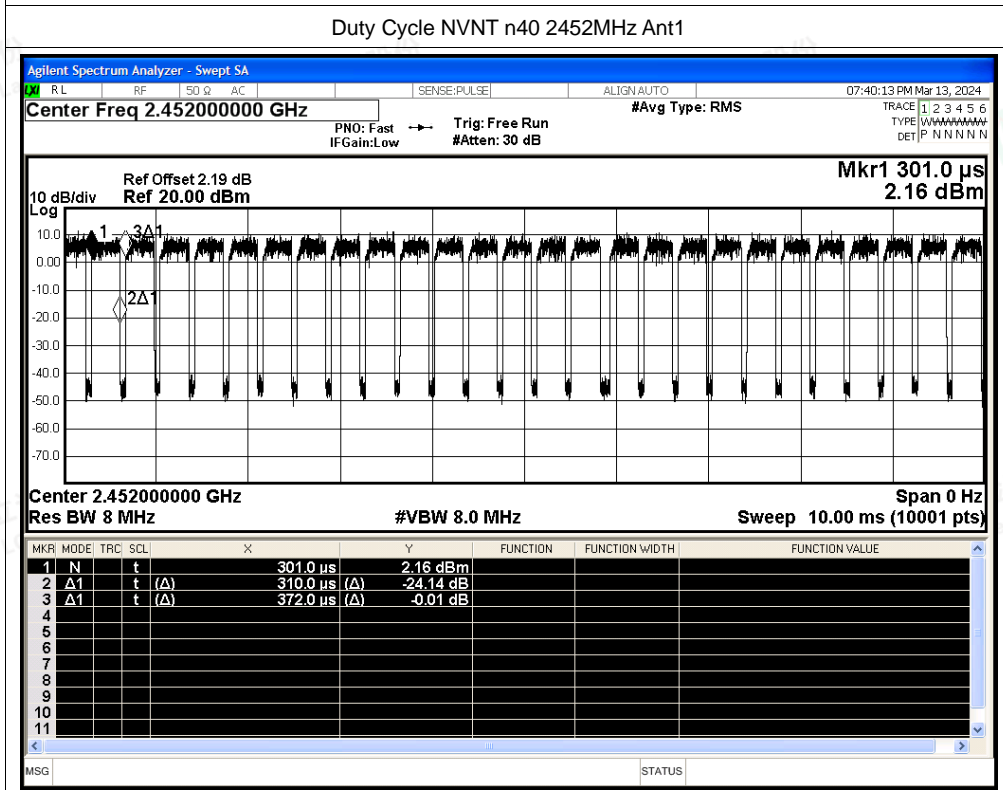
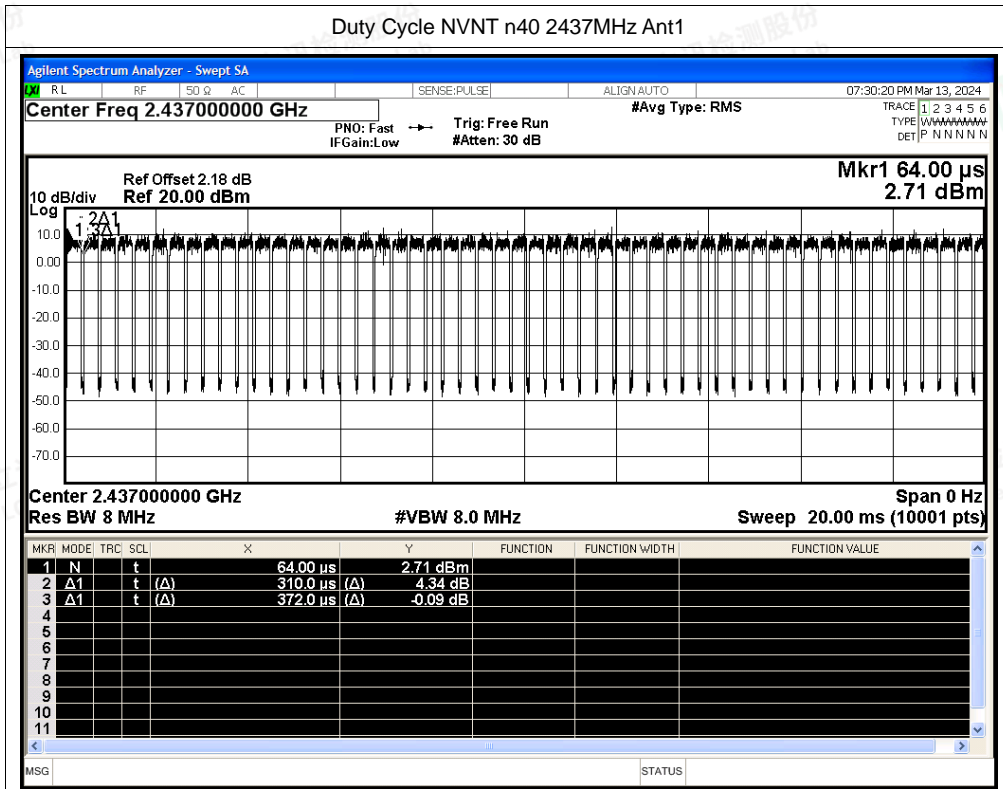


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B.7 Restrict Band

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	Ant1	2310	-51.53	3.25	-	46.98	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.49	3.25	0	40.02	Average	54	Pass
NVNT	b	2412	Ant1	2379.498	-47.43	3.25	-	51.08	Peak	74	Pass
NVNT	b	2412	Ant1	2373.765	-57.11	3.25	0	41.4	Average	54	Pass
NVNT	b	2412	Ant1	2390	-51.19	3.25	-	47.32	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-57.73	3.25	0	40.78	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-50.46	3.25	-	48.05	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-57.68	3.25	0	40.83	Average	54	Pass
NVNT	b	2462	Ant1	2490.354	-47.91	3.25	-	50.6	Peak	74	Pass
NVNT	b	2462	Ant1	2496.025	-57.16	3.25	0	41.35	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.49	3.25	-	49.02	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.65	3.25	0	40.86	Average	54	Pass
NVNT	g	2412	Ant1	2310	-49.19	3.25	-	49.32	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.99	3.25	0	39.52	Average	54	Pass
NVNT	g	2412	Ant1	2387.688	-44.72	3.25	-	53.79	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-54.33	3.25	0	44.18	Average	54	Pass
NVNT	g	2412	Ant1	2390	-45.01	3.25	-	53.5	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-54.99	3.25	0	43.52	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-45.85	3.25	-	52.66	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-53.94	3.25	0	44.57	Average	54	Pass
NVNT	g	2462	Ant1	2484.153	-38.39	3.25	-	60.12	Peak	74	Pass
NVNT	g	2462	Ant1	2483.994	-53.14	3.25	0	45.37	Average	54	Pass
NVNT	g	2462	Ant1	2500	-46.74	3.25	-	51.77	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.27	3.25	0	43.24	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-49.64	3.25	-	48.87	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.2	3.25	0	40.31	Average	54	Pass
NVNT	n20	2412	Ant1	2389.56	-36.99	3.25	-	61.52	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-53.56	3.25	0	44.95	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-42.41	3.25	-	56.1	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-53.27	3.25	0	45.24	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-43.81	3.25	-	54.7	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-52.66	3.25	0	45.85	Average	54	Pass
NVNT	n20	2462	Ant1	2484.206	-39.91	3.25	-	58.6	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.623	-52.06	3.25	0	46.45	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-48.13	3.25	-	50.38	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-55.63	3.25	0	42.88	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-51.3	3.25	-	47.21	Peak	74	Pass



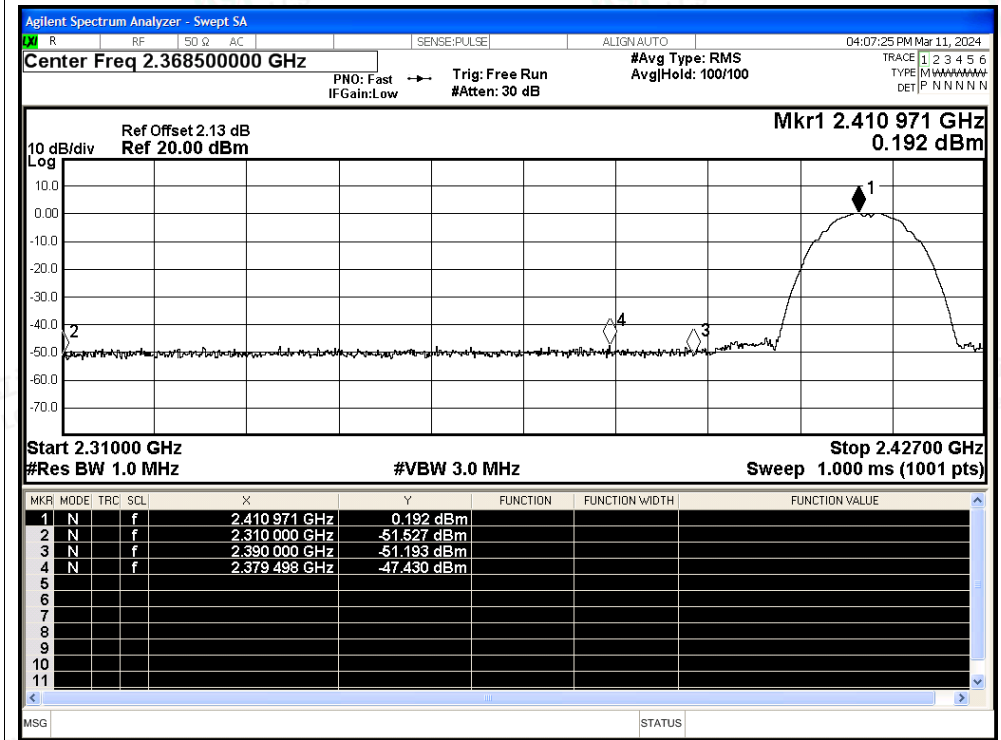


NVNT	n40	2422	Ant1	2310	-58.62	3.25	0	39.89	Average	54	Pass
NVNT	n40	2422	Ant1	2388.242	-32.01	3.25	-	66.5	Peak	74	Pass
NVNT	n40	2422	Ant1	2388.242	-49.6	3.25	0	48.91	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-38.06	3.25	-	60.45	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-50.08	3.25	0	48.43	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-42.02	3.25	-	56.49	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-51.45	3.25	0	47.06	Average	54	Pass
NVNT	n40	2452	Ant1	2484.556	-30.69	3.25	-	67.82	Peak	74	Pass
NVNT	n40	2452	Ant1	2487.442	-49.07	3.25	0	49.44	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-45.86	3.25	-	52.65	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-54.78	3.25	0	43.73	Average	54	Pass

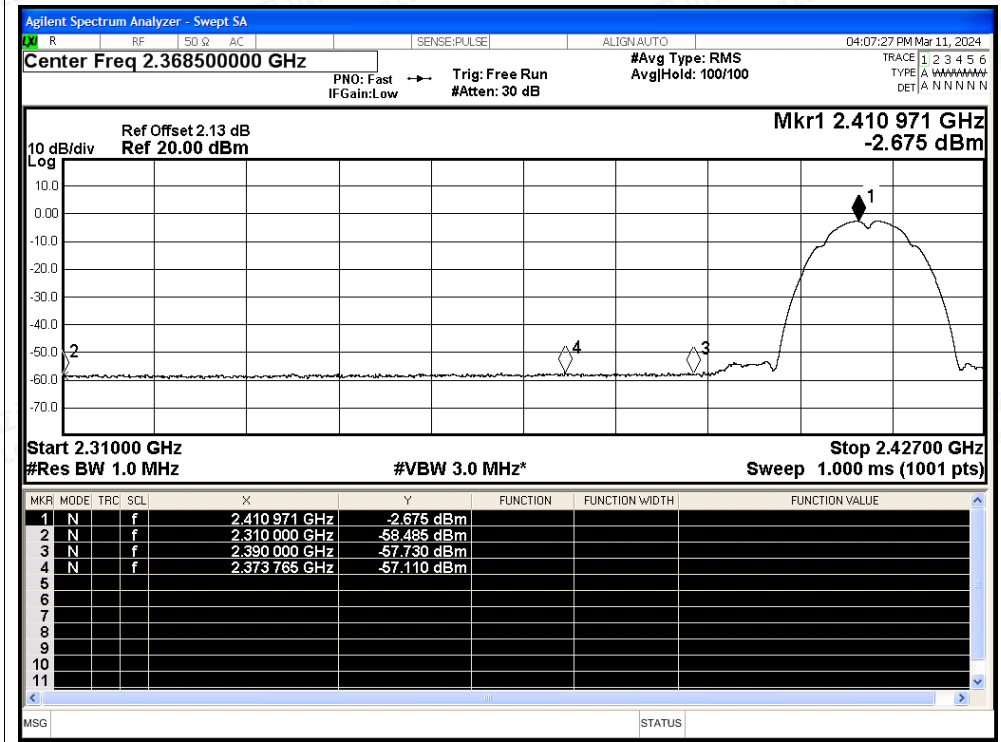


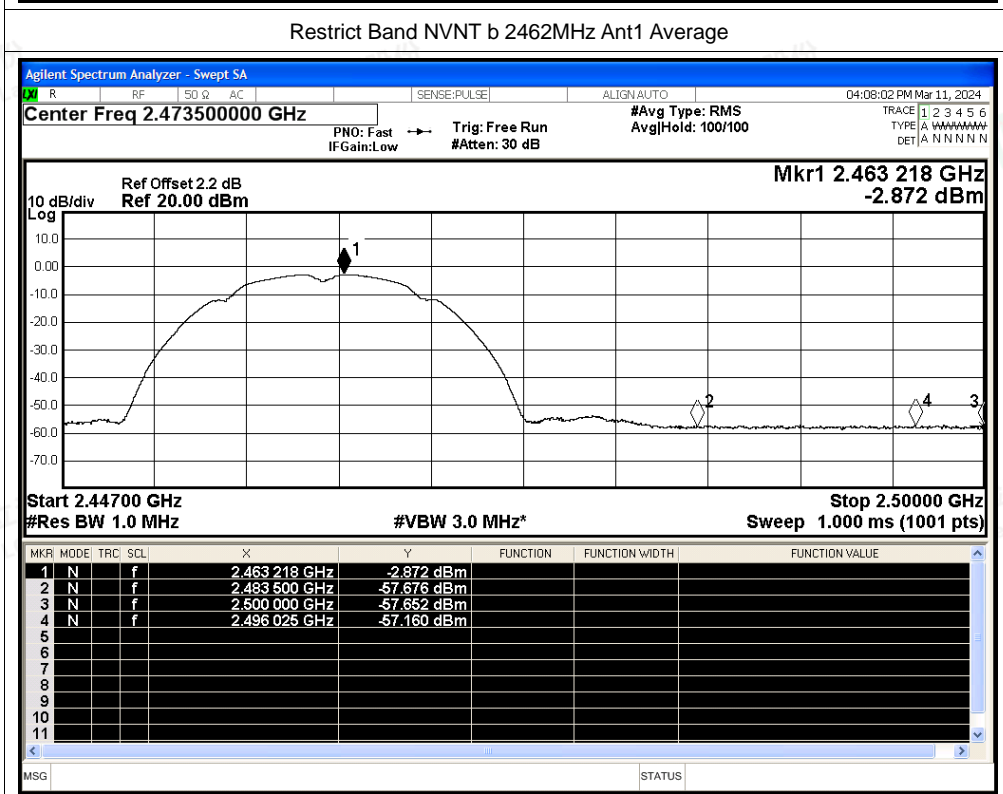
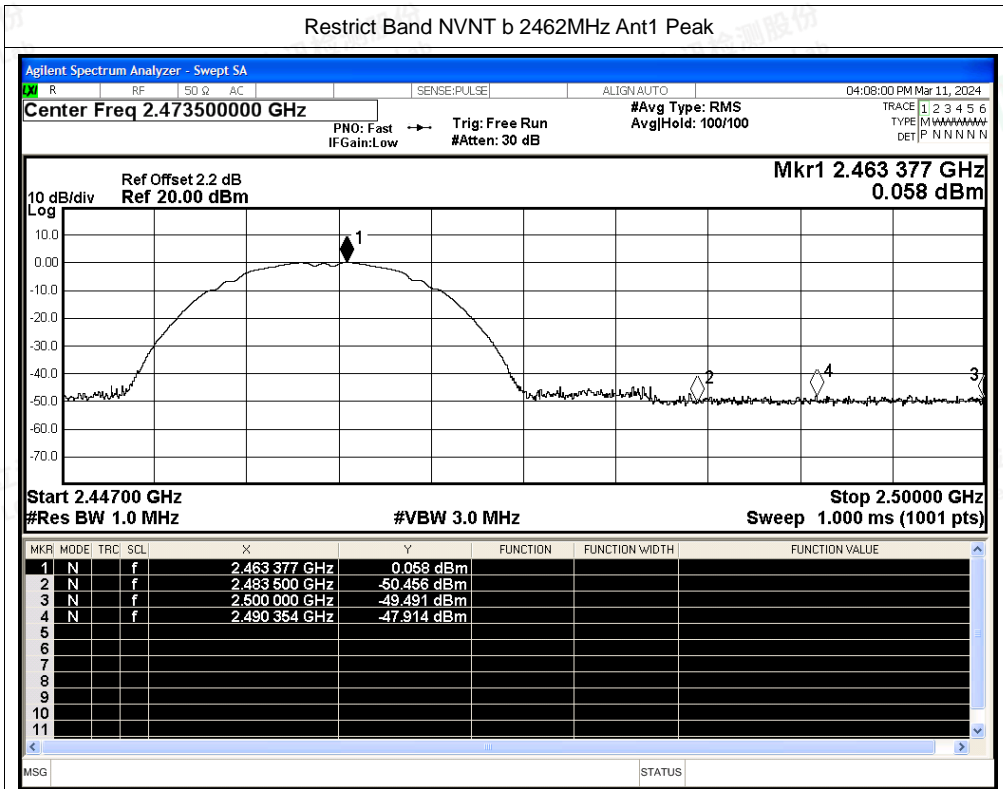
Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

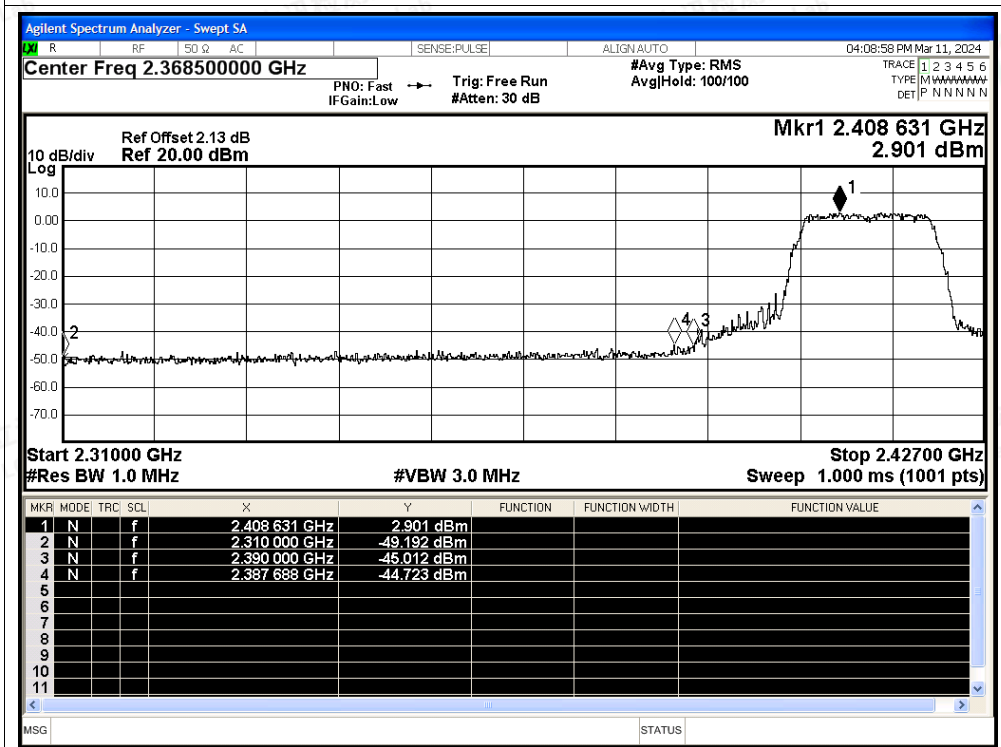




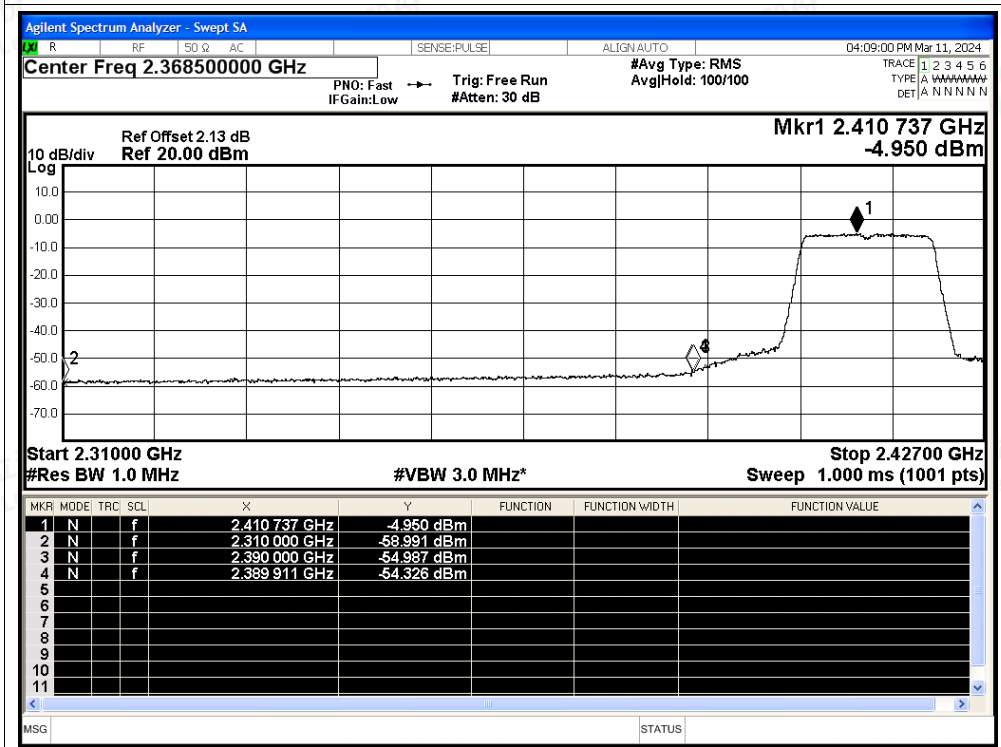


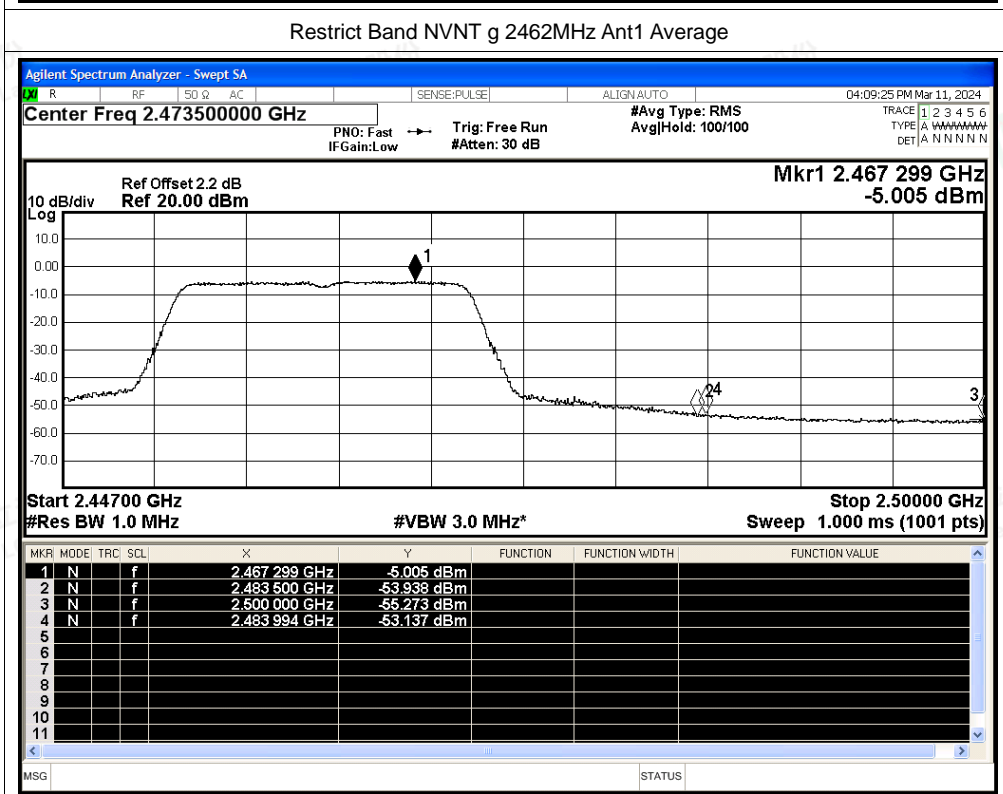
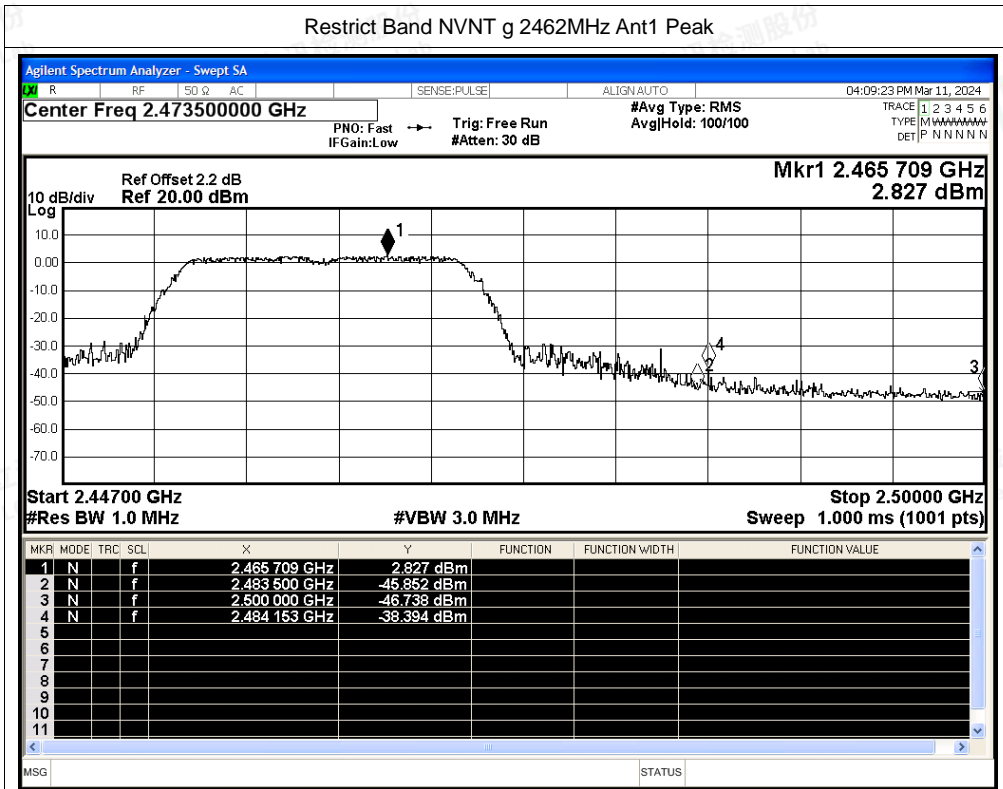
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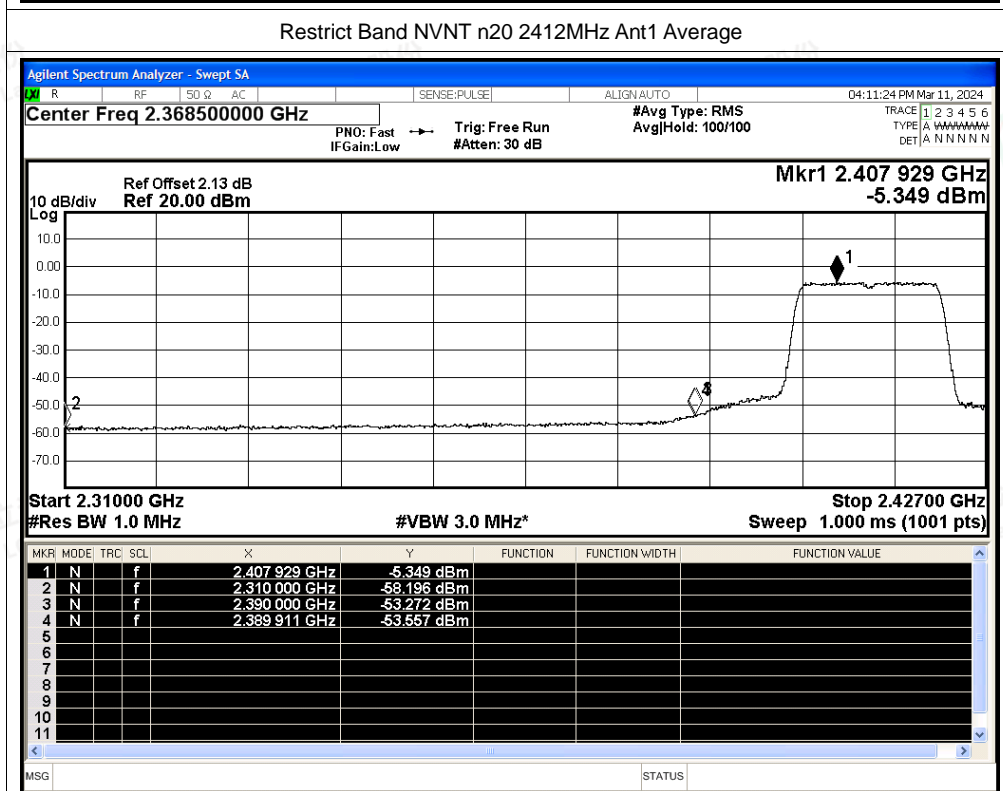
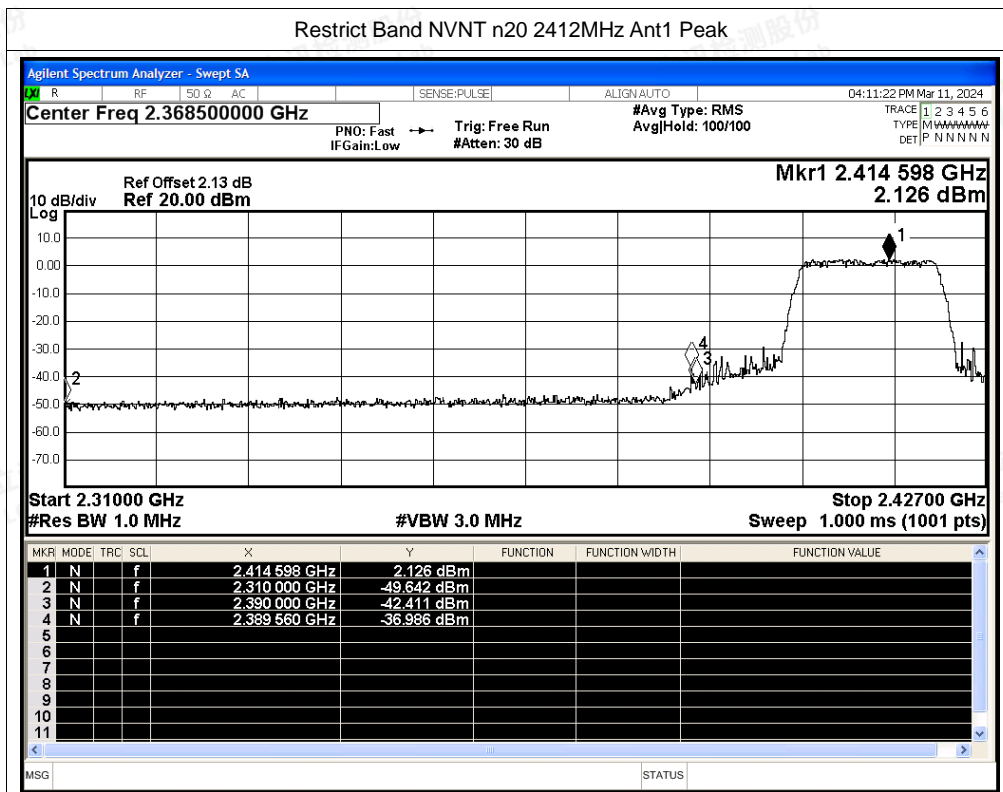
Restrict Band NVNT g 2412MHz Ant1 Peak

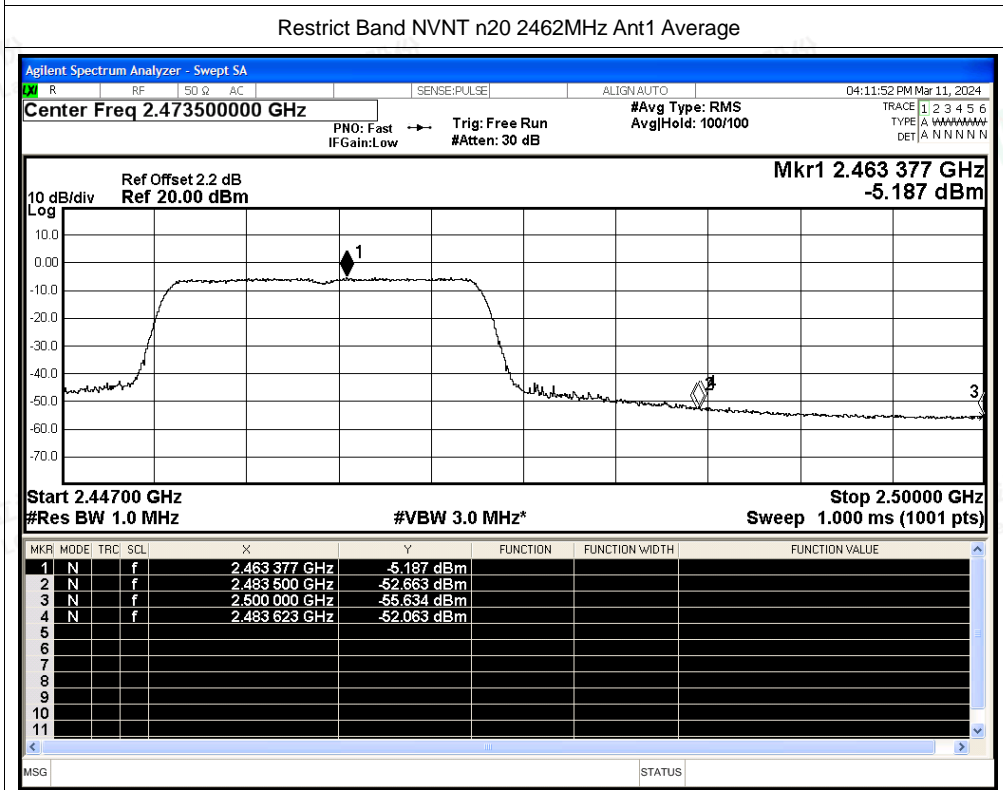
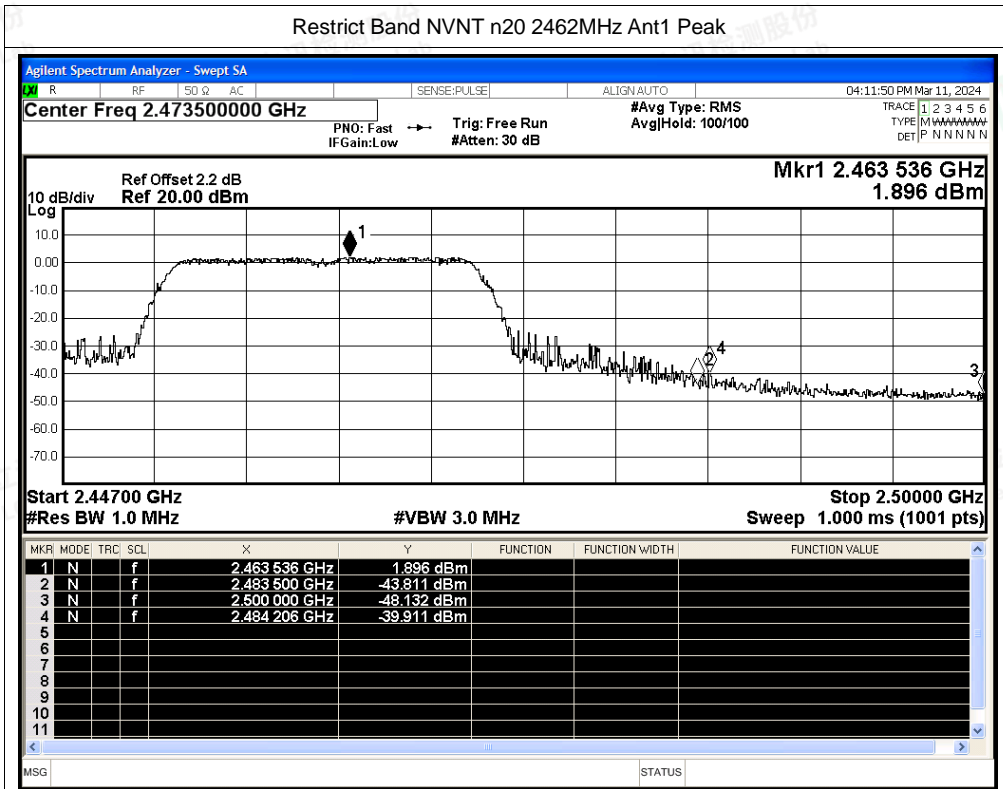


Restrict Band NVNT g 2412MHz Ant1 Average





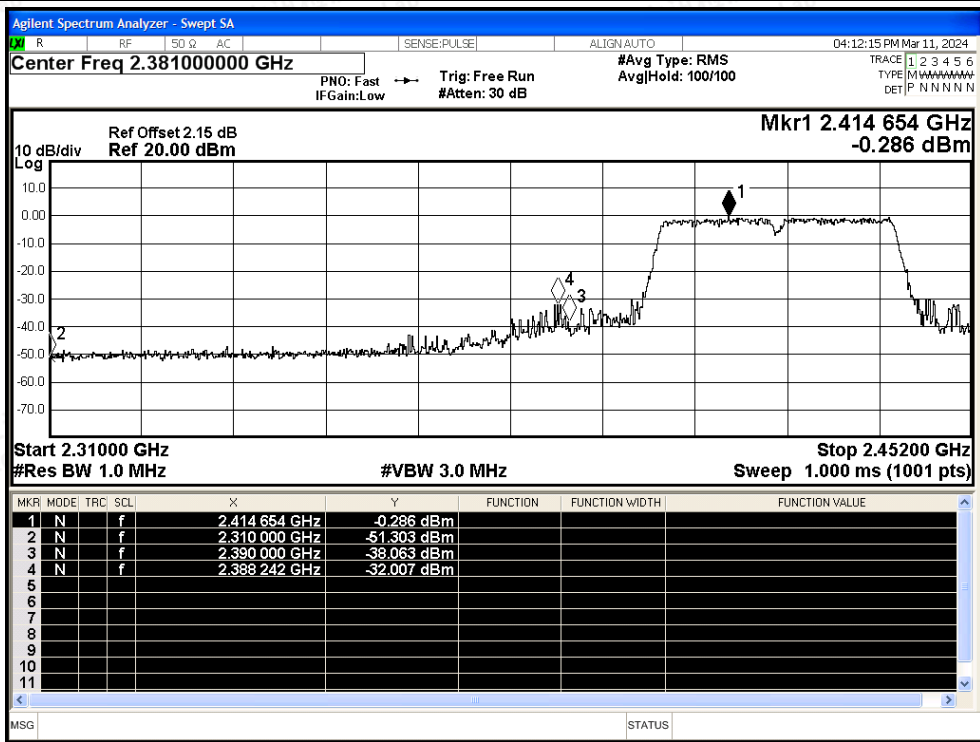






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Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average

