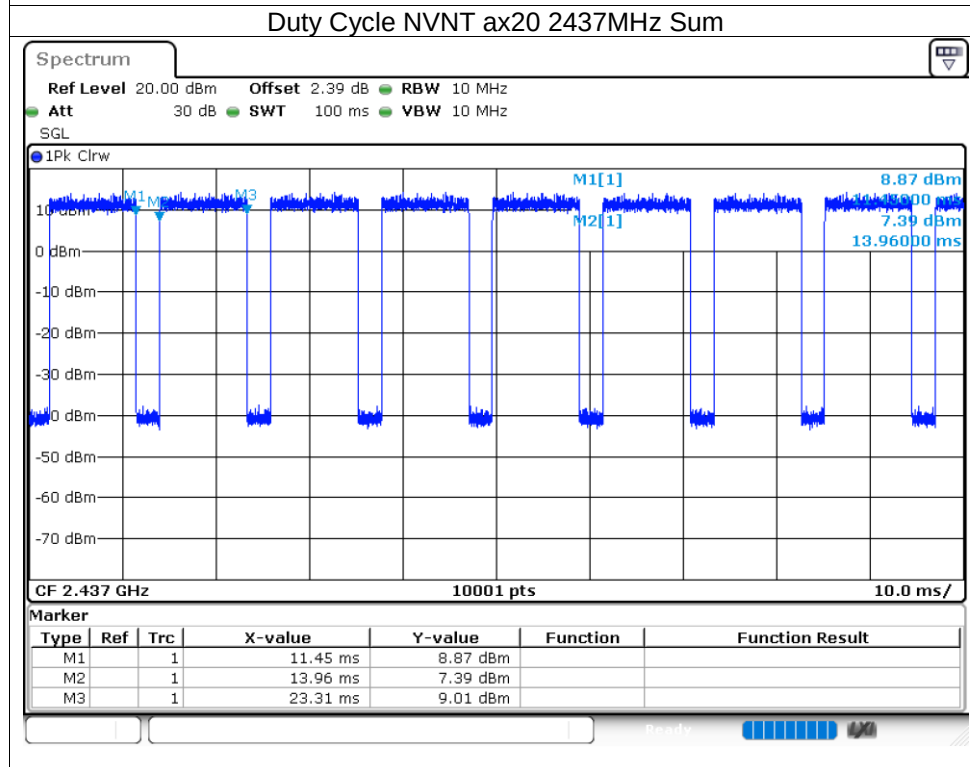
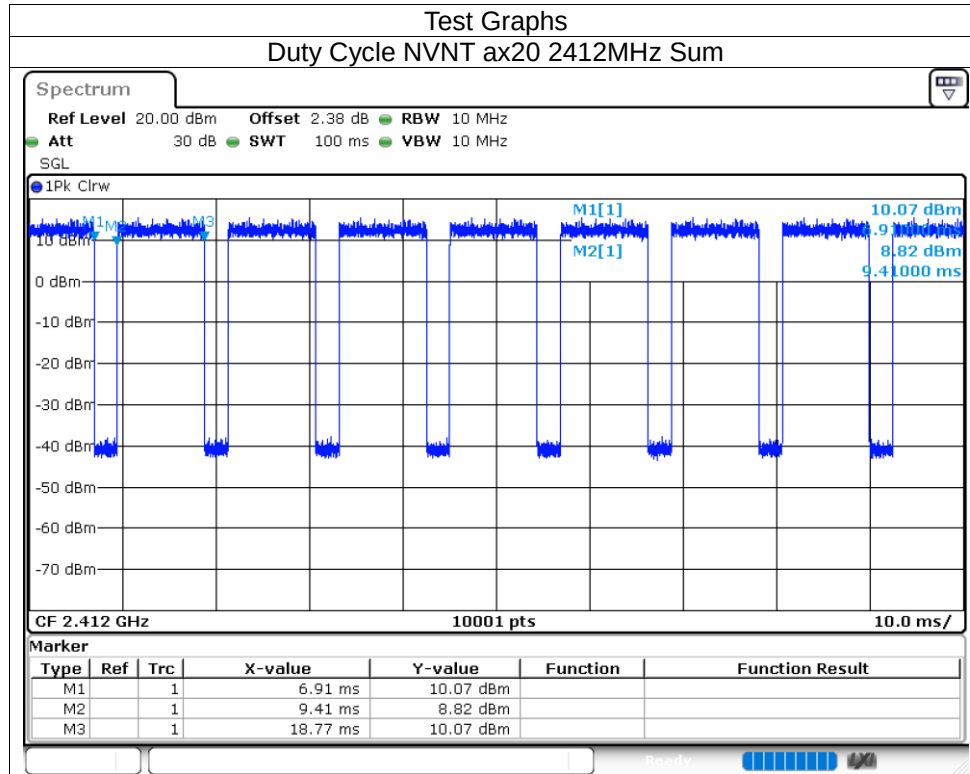
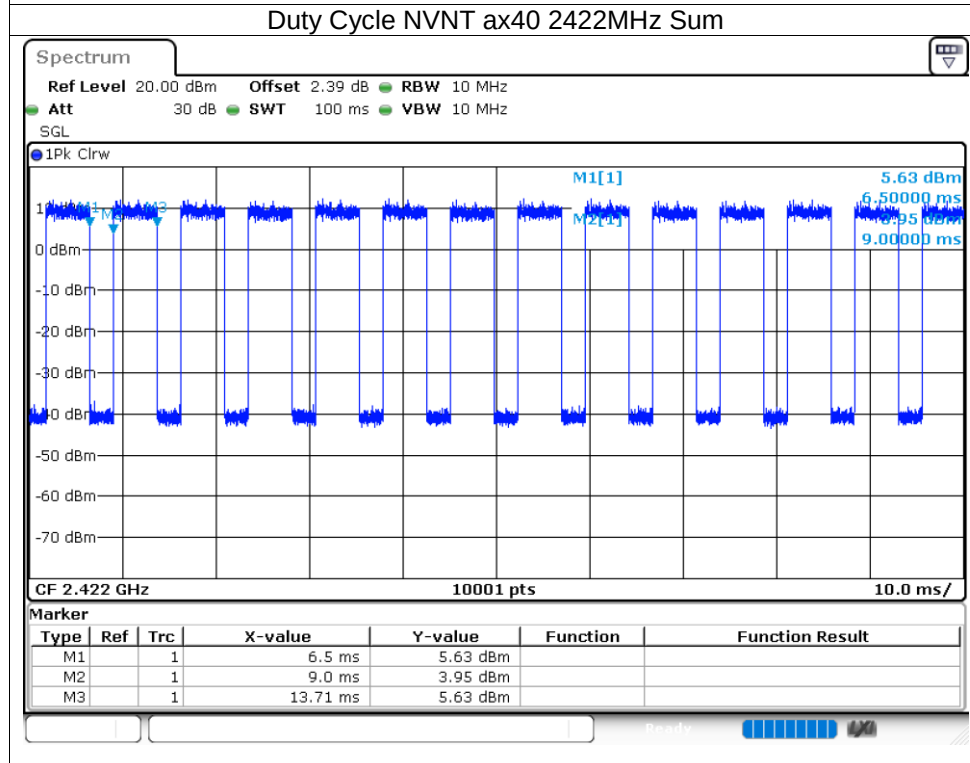
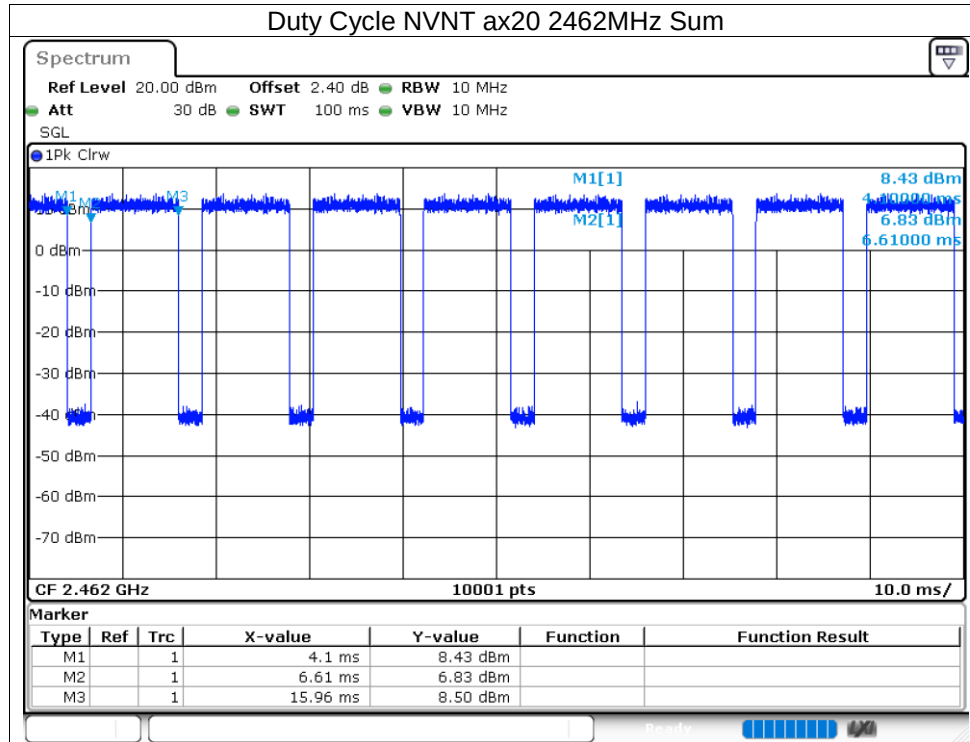


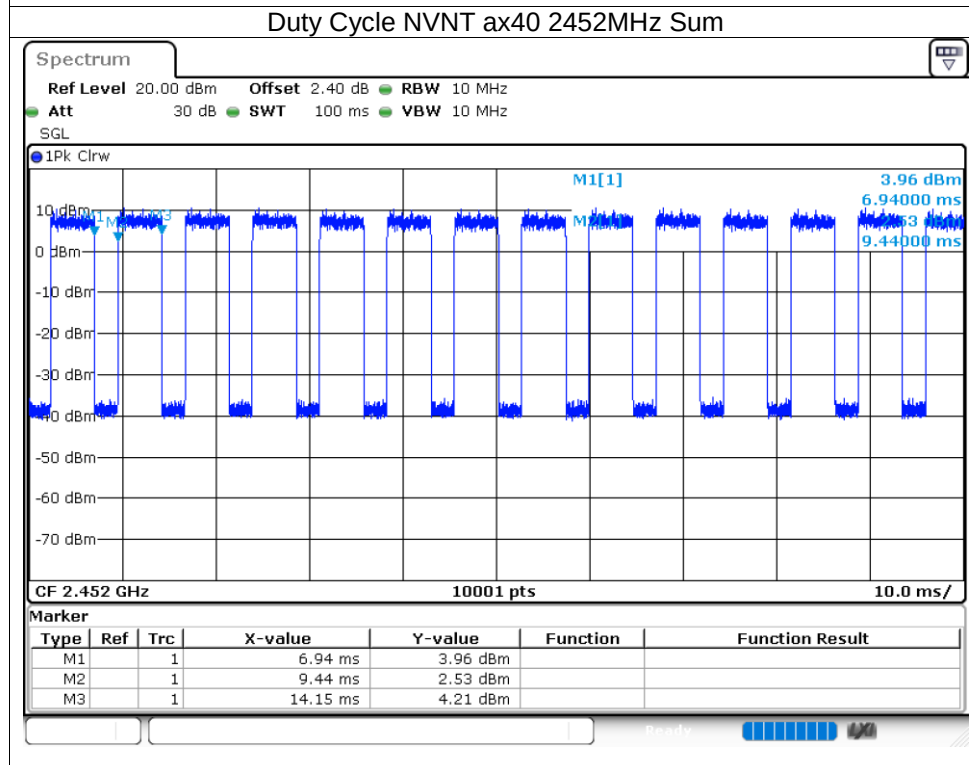
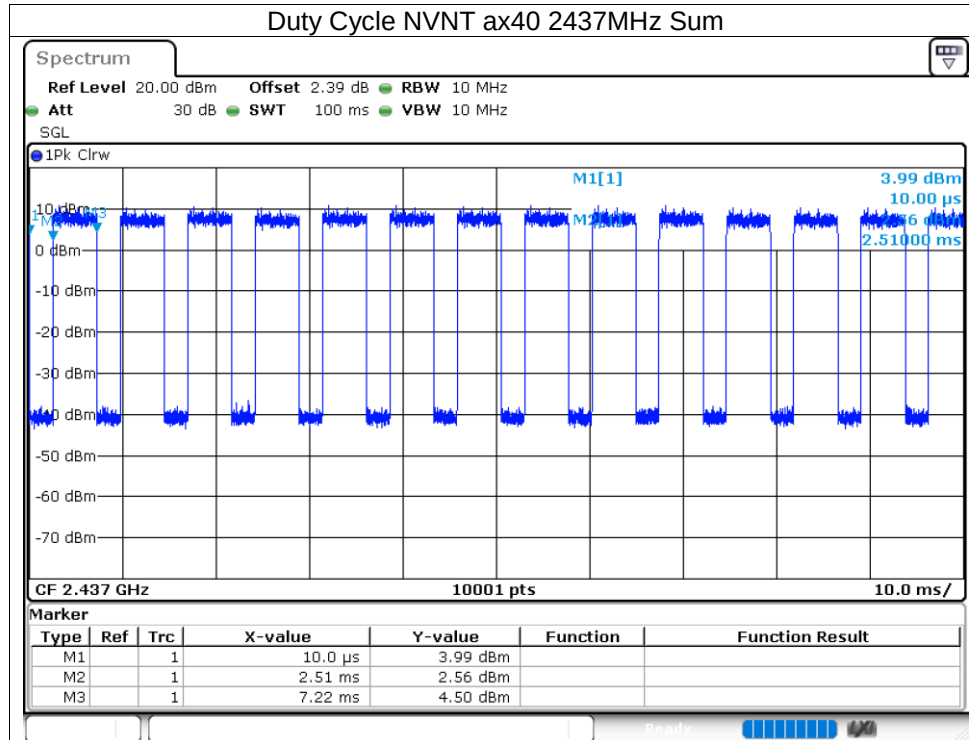
8.2 WIFI 2.4G MIMO

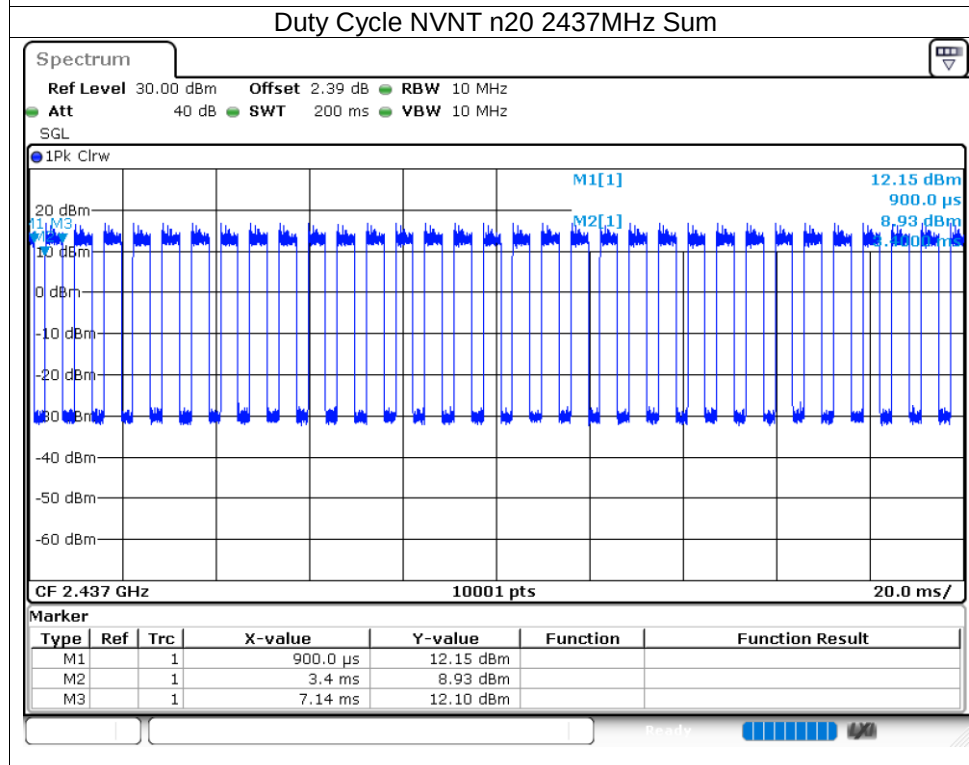
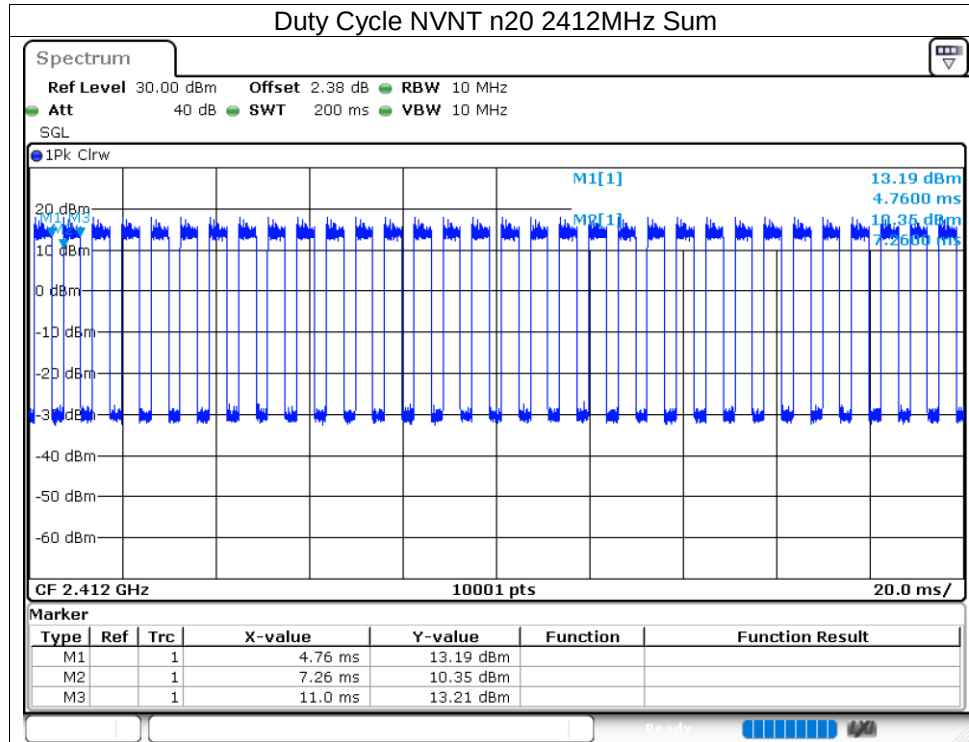
8.2.1 Duty Cycle

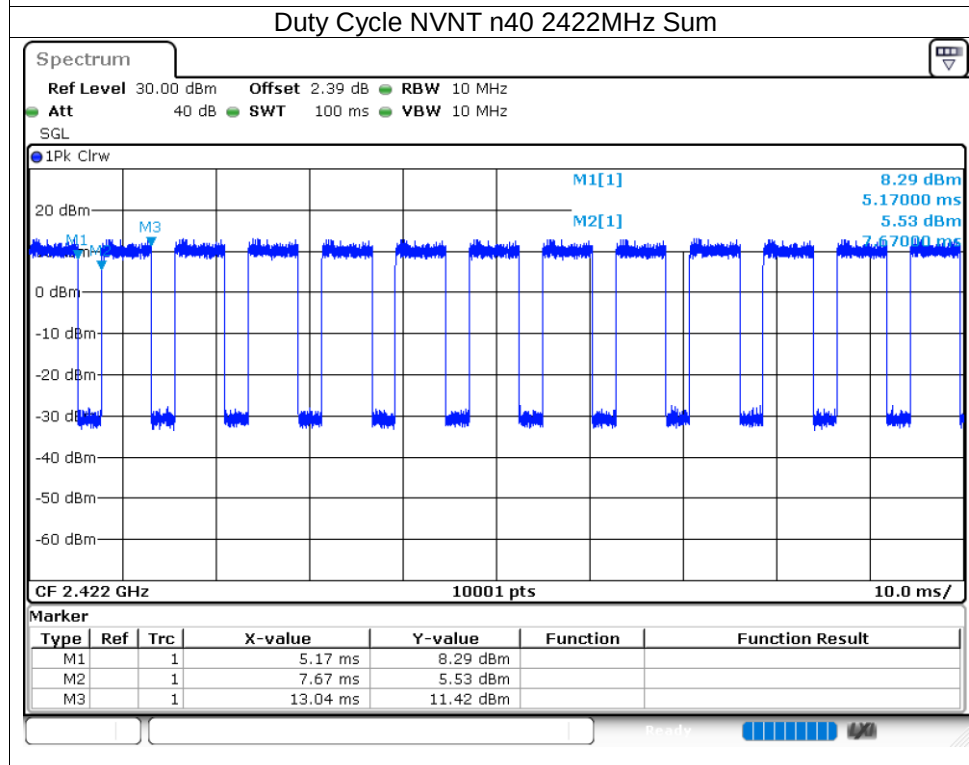
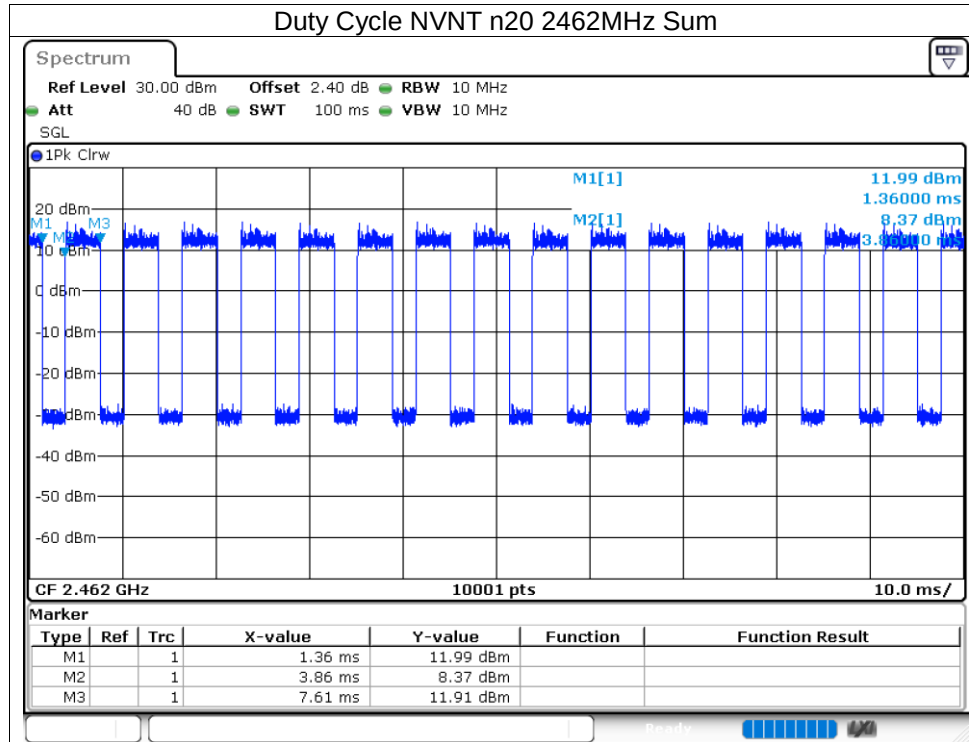
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	2412	Sum	80.07	0.97	0.11
NVNT	ax20	2437	Sum	77.96	1.08	0.11
NVNT	ax20	2462	Sum	79.05	1.02	0.11
NVNT	ax40	2422	Sum	65.84	1.81	0.21
NVNT	ax40	2437	Sum	65.14	1.86	0.21
NVNT	ax40	2452	Sum	65.4	1.84	0.21
NVNT	n20	2412	Sum	60.22	2.2	0.27
NVNT	n20	2437	Sum	60.32	2.2	0.27
NVNT	n20	2462	Sum	60.16	2.21	0.27
NVNT	n40	2422	Sum	69.75	1.56	0.19
NVNT	n40	2437	Sum	69.83	1.56	0.19
NVNT	n40	2452	Sum	69.41	1.59	0.19

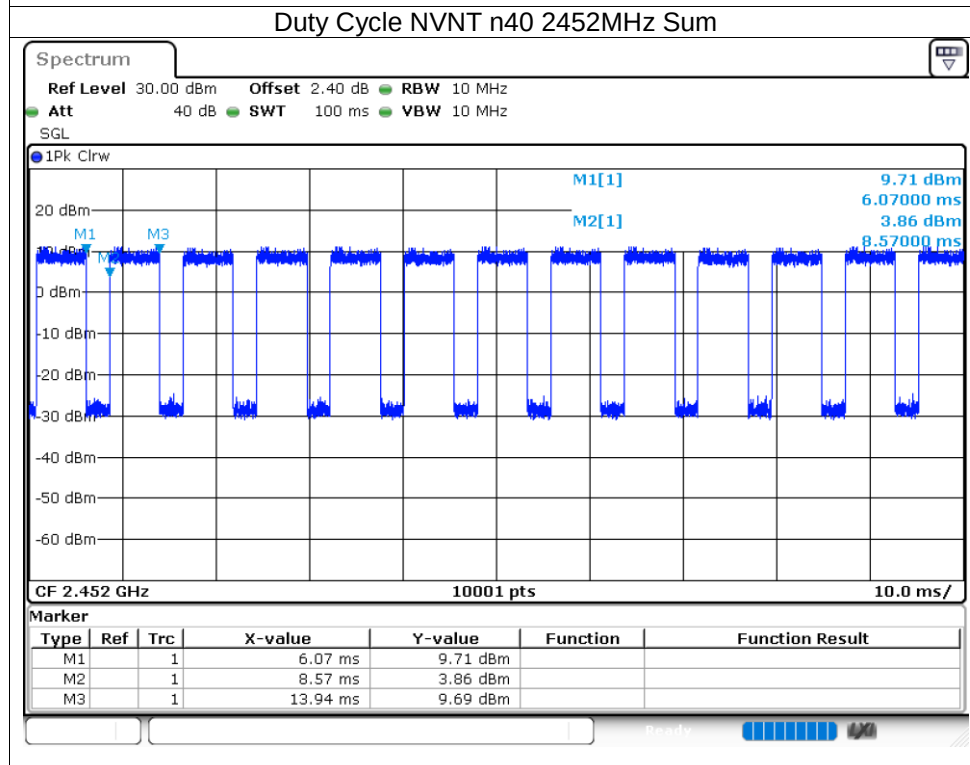
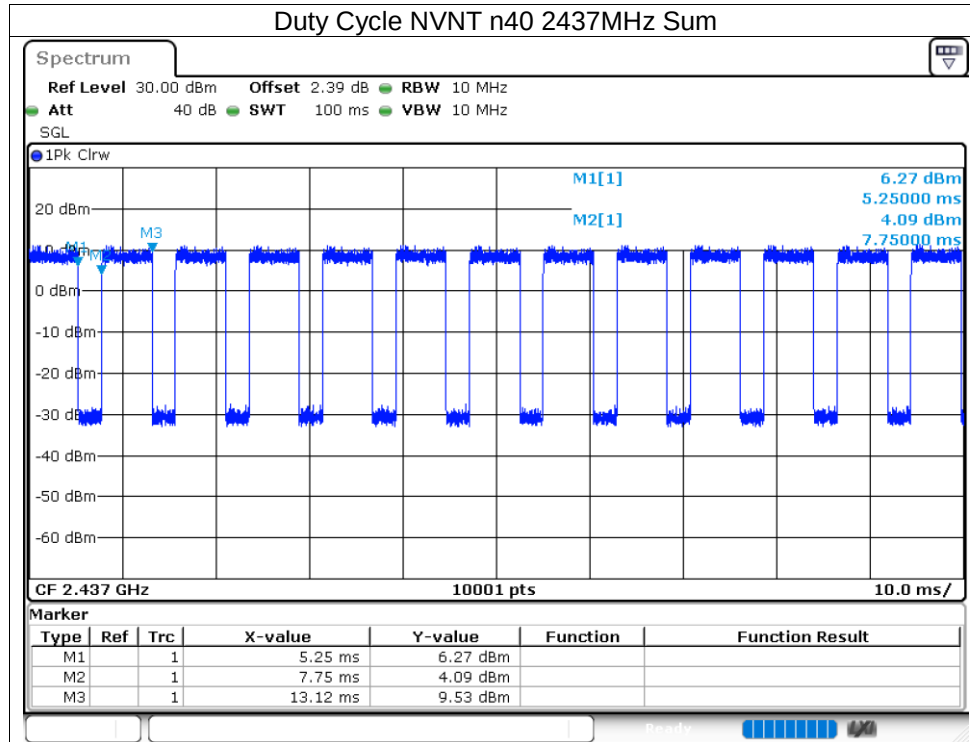












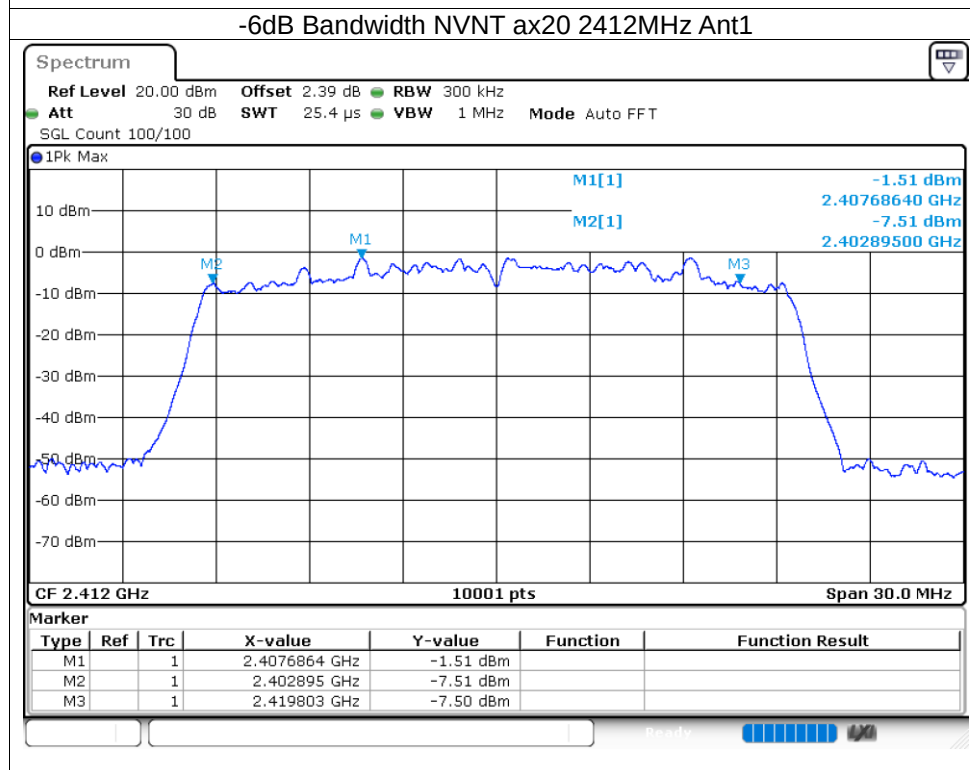
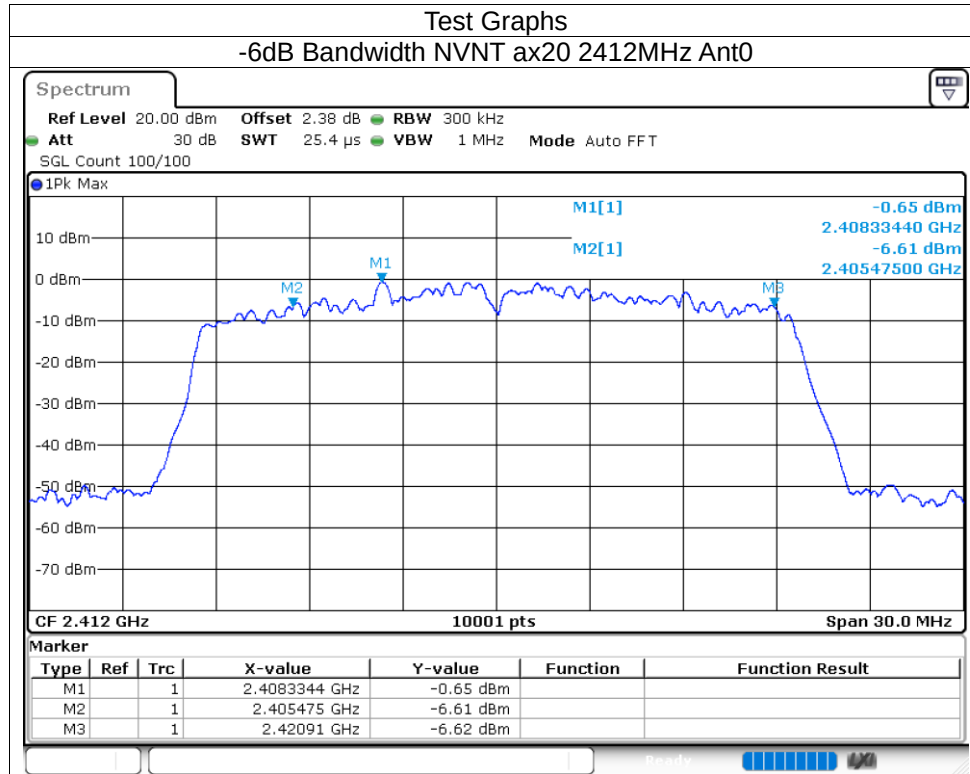
8.2.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant0	8.03	29.2	Pass
NVNT	ax20	2412	Ant1	9	29.2	Pass
NVNT	ax20	2412	Sum	11.55	29.2	Pass
NVNT	ax20	2437	Ant0	7.42	29.2	Pass
NVNT	ax20	2437	Ant1	8.92	29.2	Pass
NVNT	ax20	2437	Sum	11.24	29.2	Pass
NVNT	ax20	2462	Ant0	6.89	29.2	Pass
NVNT	ax20	2462	Ant1	8.54	29.2	Pass
NVNT	ax20	2462	Sum	10.8	29.2	Pass
NVNT	ax40	2422	Ant0	7.01	29.2	Pass
NVNT	ax40	2422	Ant1	8.29	29.2	Pass
NVNT	ax40	2422	Sum	10.71	29.2	Pass
NVNT	ax40	2437	Ant0	7.37	29.2	Pass
NVNT	ax40	2437	Ant1	8.5	29.2	Pass
NVNT	ax40	2437	Sum	10.98	29.2	Pass
NVNT	ax40	2452	Ant0	6.76	29.2	Pass
NVNT	ax40	2452	Ant1	8.12	29.2	Pass
NVNT	ax40	2452	Sum	10.5	29.2	Pass
NVNT	n20	2412	Ant0	9.5	29.2	Pass
NVNT	n20	2412	Ant1	10.27	29.2	Pass
NVNT	n20	2412	Sum	12.91	29.2	Pass
NVNT	n20	2437	Ant0	8.68	29.2	Pass
NVNT	n20	2437	Ant1	10.1	29.2	Pass
NVNT	n20	2437	Sum	12.46	29.2	Pass
NVNT	n20	2462	Ant0	8.63	29.2	Pass
NVNT	n20	2462	Ant1	9.85	29.2	Pass
NVNT	n20	2462	Sum	12.29	29.2	Pass
NVNT	n40	2422	Ant0	8.2	29.2	Pass
NVNT	n40	2422	Ant1	9.24	29.2	Pass
NVNT	n40	2422	Sum	11.76	29.2	Pass
NVNT	n40	2437	Ant0	8.2	29.2	Pass
NVNT	n40	2437	Ant1	9.48	29.2	Pass
NVNT	n40	2437	Sum	11.9	29.2	Pass
NVNT	n40	2452	Ant0	7.87	29.2	Pass
NVNT	n40	2452	Ant1	9.04	29.2	Pass
NVNT	n40	2452	Sum	11.5	29.2	Pass

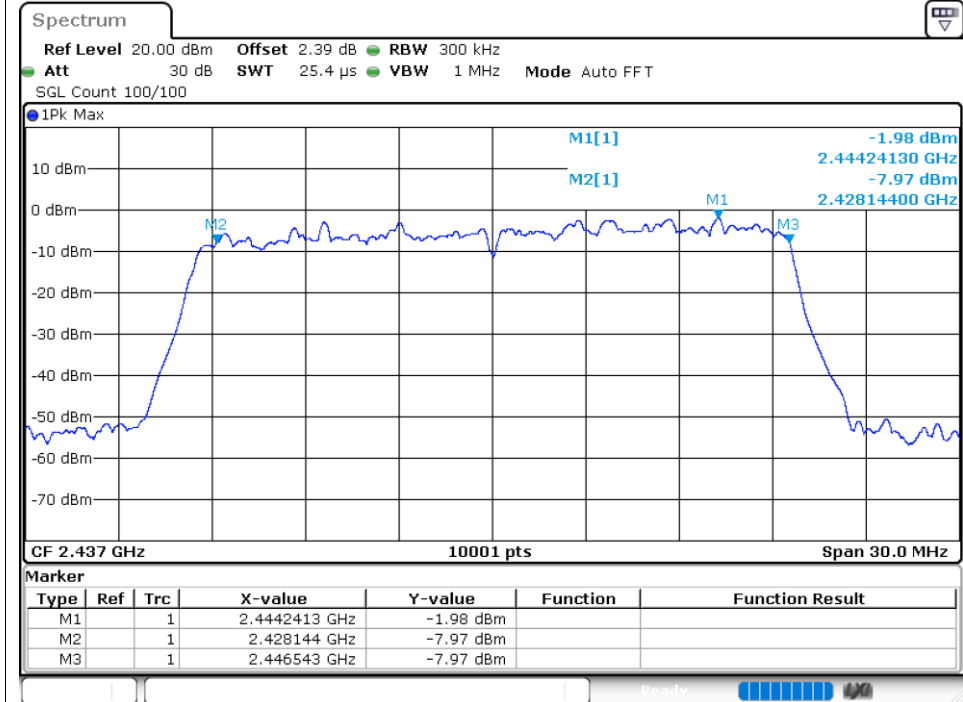
Note: The Duty Cycle factor has already been included.

8.2.3 -6dB Bandwidth

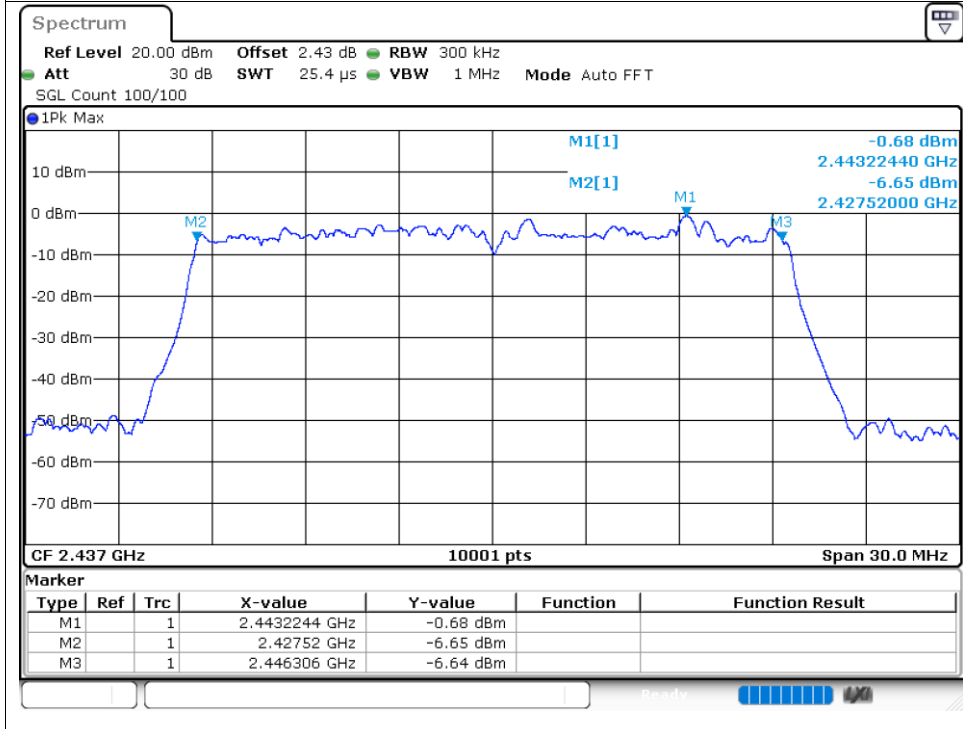
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant0	15.435	0.5	Pass
NVNT	ax20	2412	Ant1	16.908	0.5	Pass
NVNT	ax20	2437	Ant0	18.399	0.5	Pass
NVNT	ax20	2437	Ant1	18.786	0.5	Pass
NVNT	ax20	2462	Ant0	18.855	0.5	Pass
NVNT	ax20	2462	Ant1	18.921	0.5	Pass
NVNT	ax40	2422	Ant0	32.46	0.5	Pass
NVNT	ax40	2422	Ant1	36.972	0.5	Pass
NVNT	ax40	2437	Ant0	30.27	0.5	Pass
NVNT	ax40	2437	Ant1	38.238	0.5	Pass
NVNT	ax40	2452	Ant0	30.684	0.5	Pass
NVNT	ax40	2452	Ant1	38.028	0.5	Pass
NVNT	n20	2412	Ant0	15.18	0.5	Pass
NVNT	n20	2412	Ant1	15.24	0.5	Pass
NVNT	n20	2437	Ant0	17.523	0.5	Pass
NVNT	n20	2437	Ant1	17.55	0.5	Pass
NVNT	n20	2462	Ant0	17.073	0.5	Pass
NVNT	n20	2462	Ant1	17.628	0.5	Pass
NVNT	n40	2422	Ant0	32.646	0.5	Pass
NVNT	n40	2422	Ant1	34.95	0.5	Pass
NVNT	n40	2437	Ant0	35.664	0.5	Pass
NVNT	n40	2437	Ant1	36.312	0.5	Pass
NVNT	n40	2452	Ant0	34.302	0.5	Pass
NVNT	n40	2452	Ant1	36.252	0.5	Pass



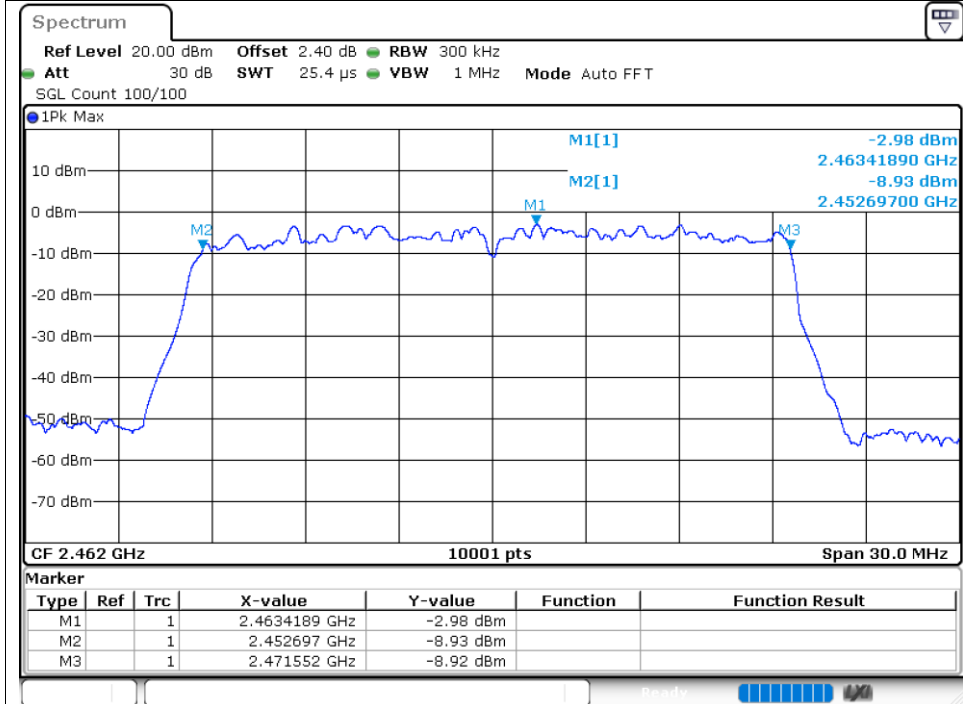
-6dB Bandwidth NVNT ax20 2437MHz Ant0



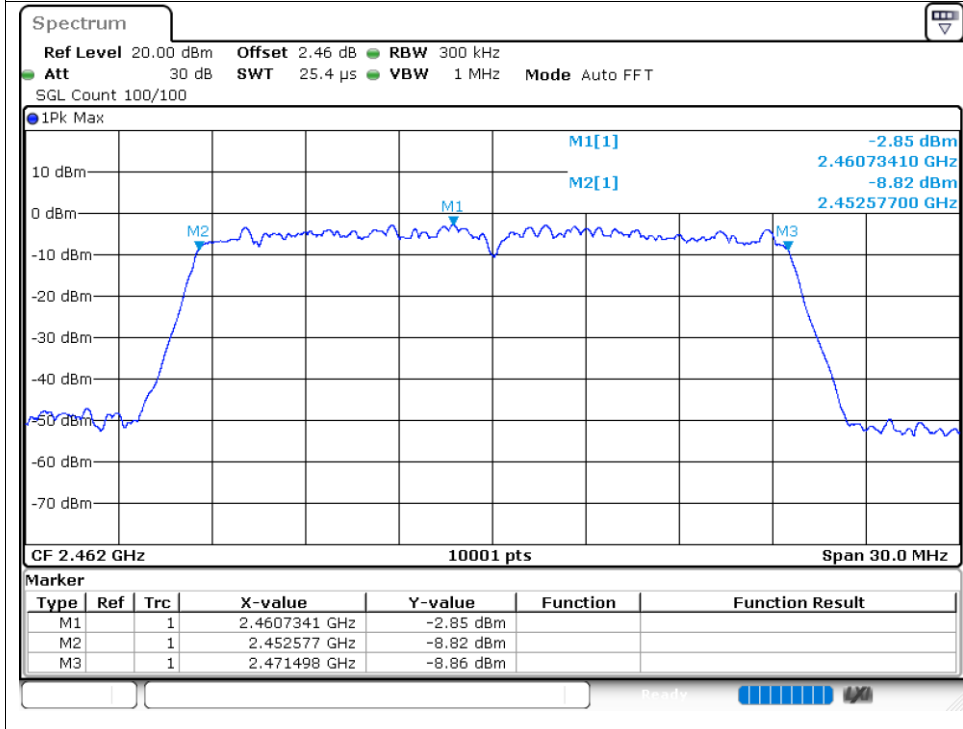
-6dB Bandwidth NVNT ax20 2437MHz Ant1



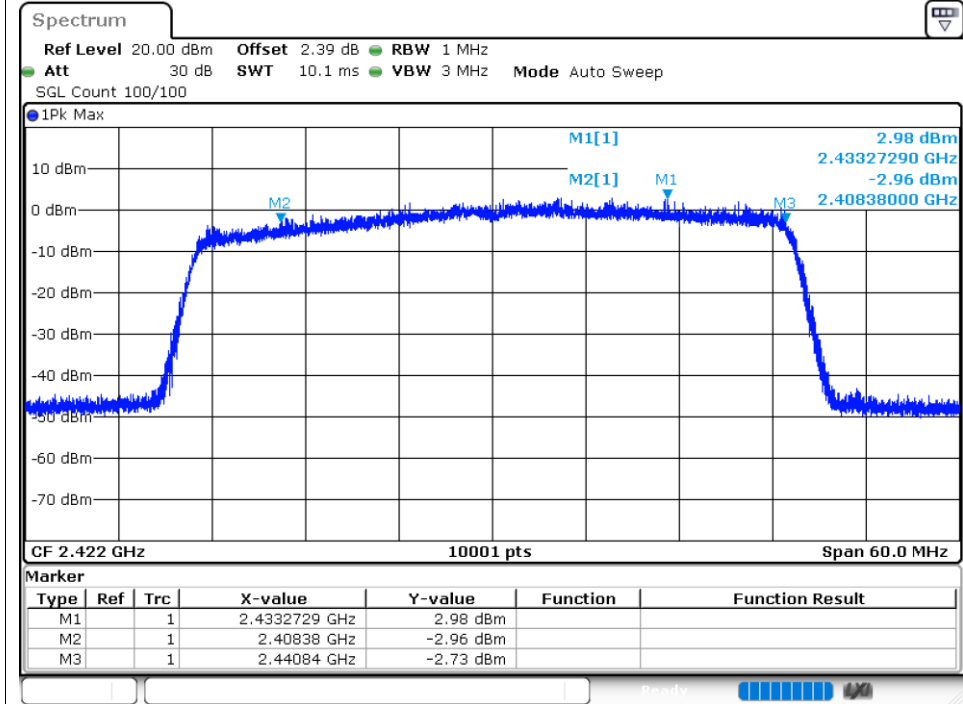
-6dB Bandwidth NVNT ax20 2462MHz Ant0



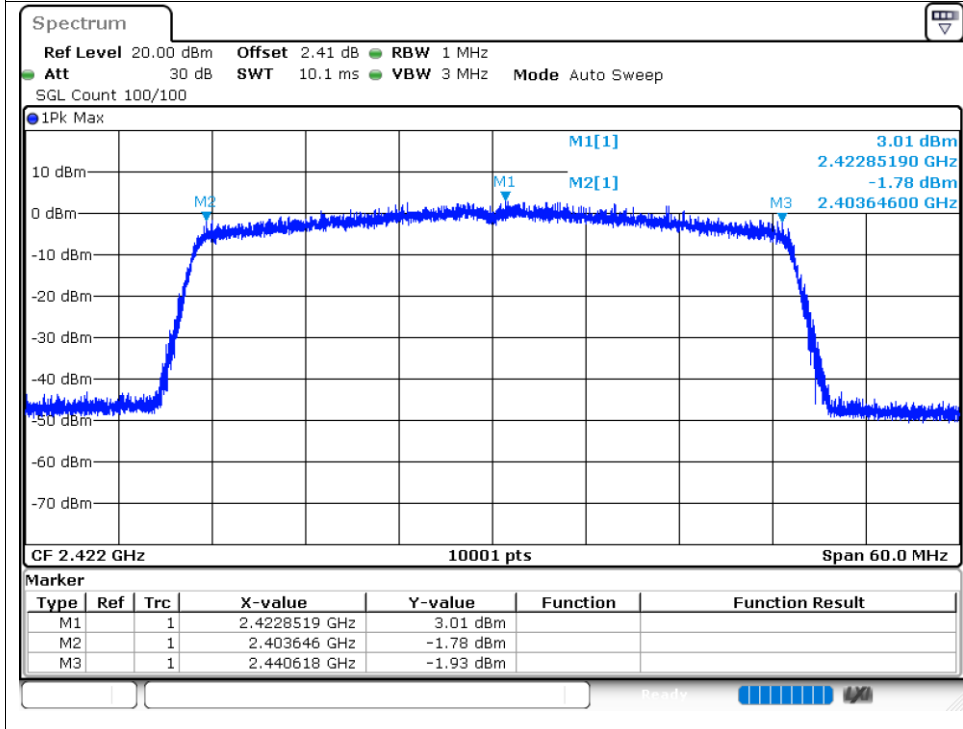
-6dB Bandwidth NVNT ax20 2462MHz Ant1



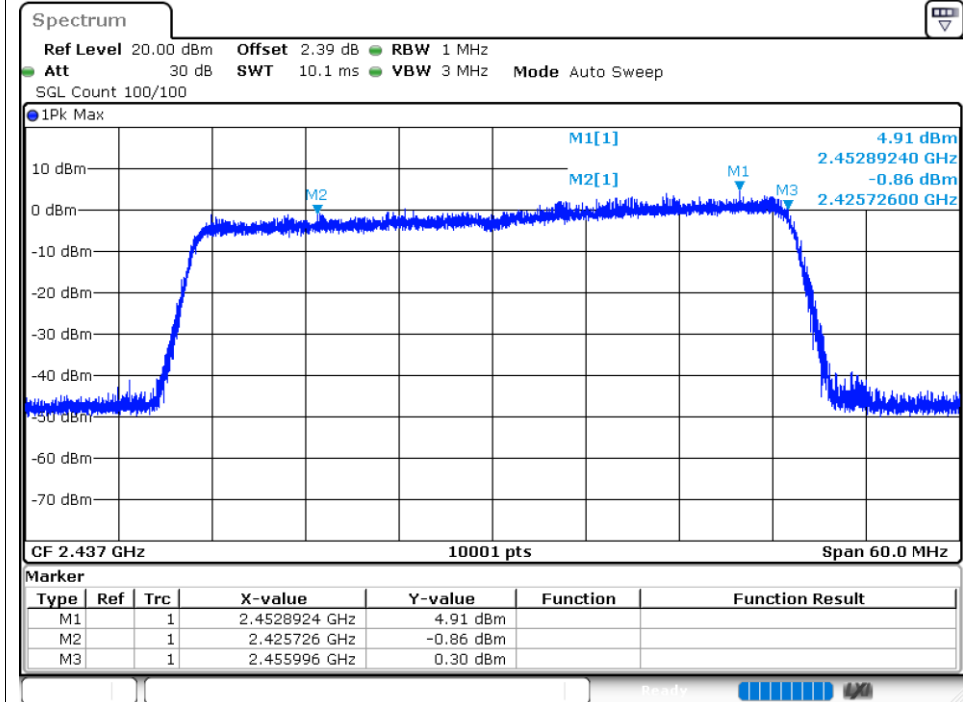
-6dB Bandwidth NVNT ax40 2422MHz Ant0



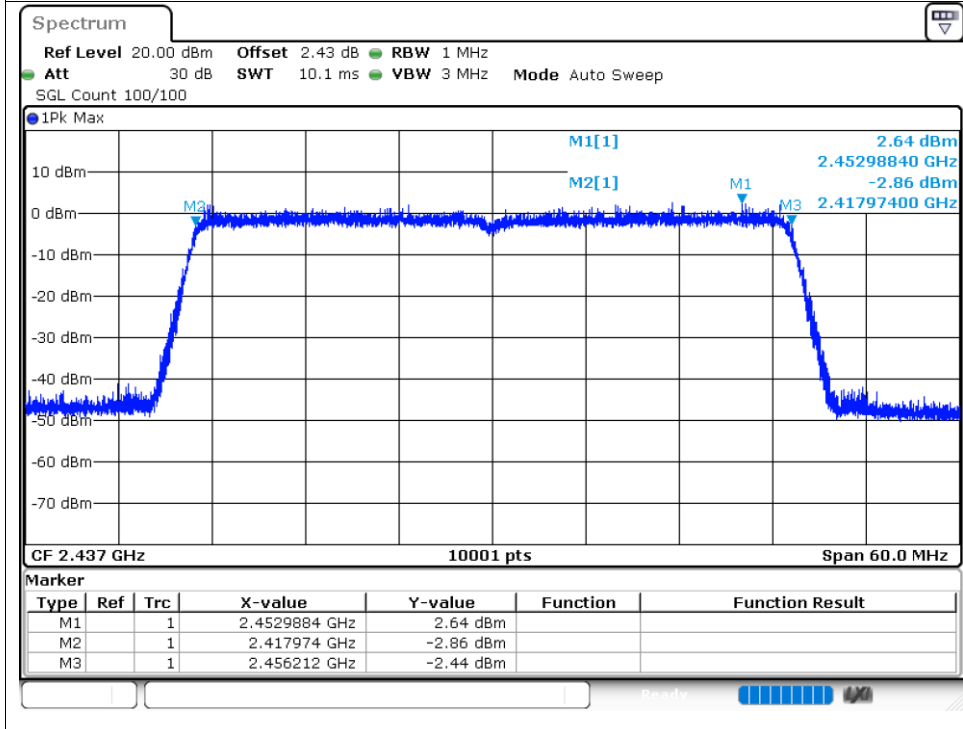
-6dB Bandwidth NVNT ax40 2422MHz Ant1



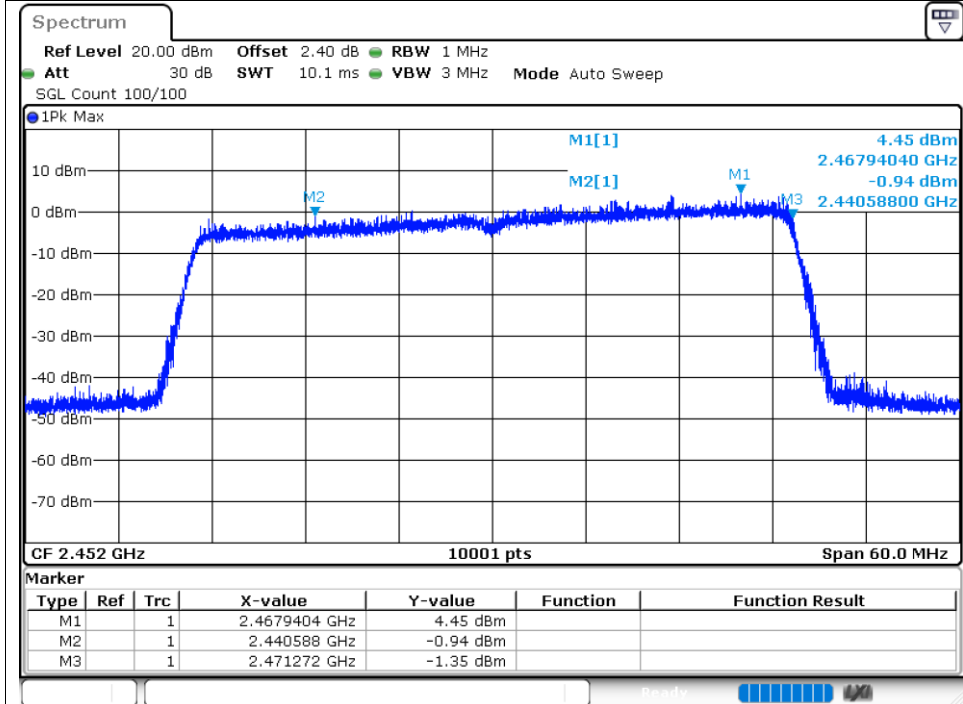
-6dB Bandwidth NVNT ax40 2437MHz Ant0



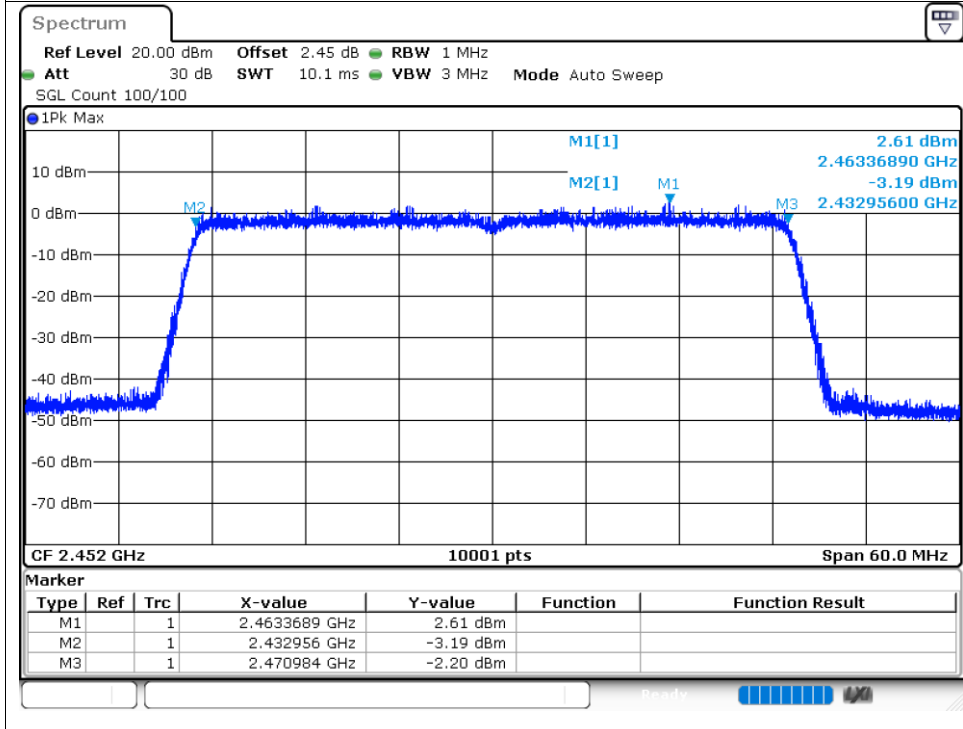
-6dB Bandwidth NVNT ax40 2437MHz Ant1

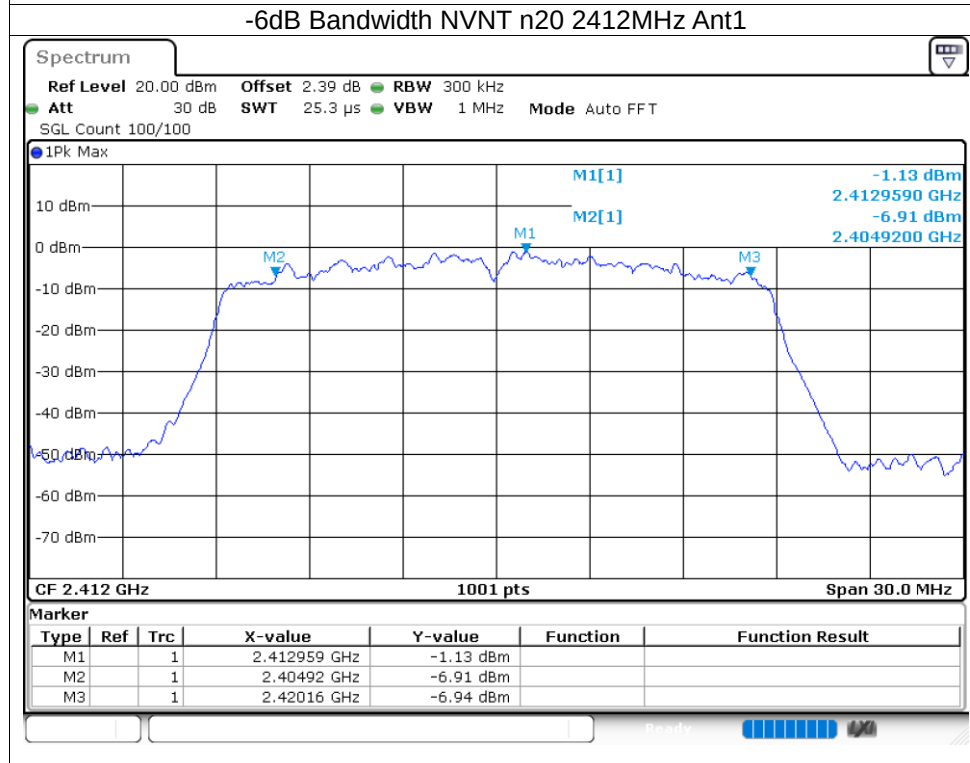
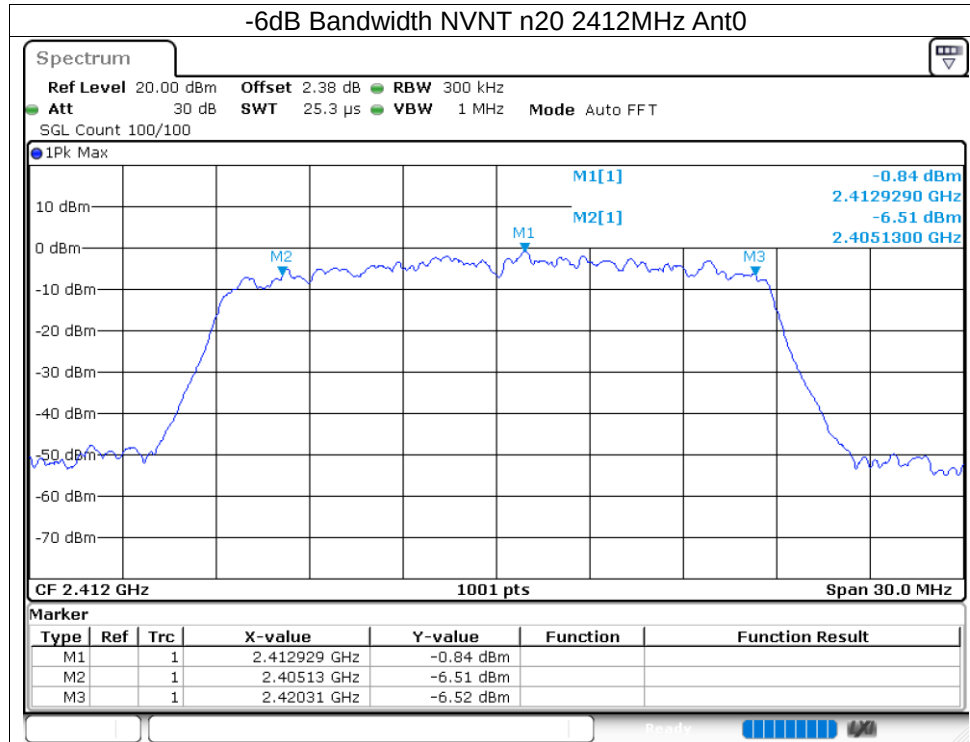


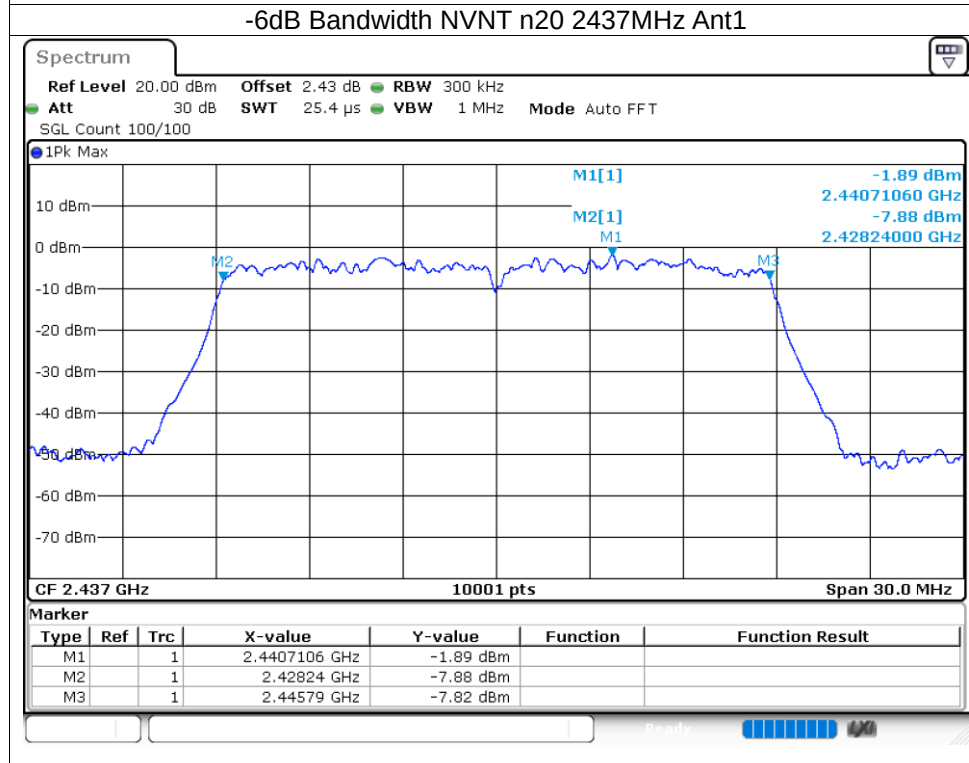
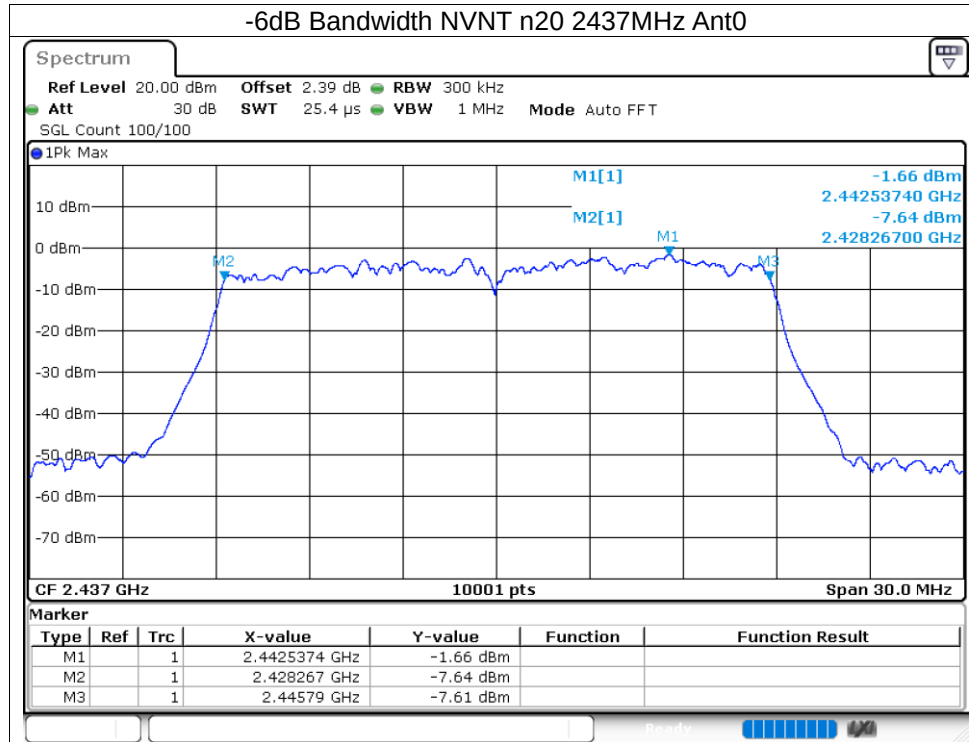
-6dB Bandwidth NVNT ax40 2452MHz Ant0

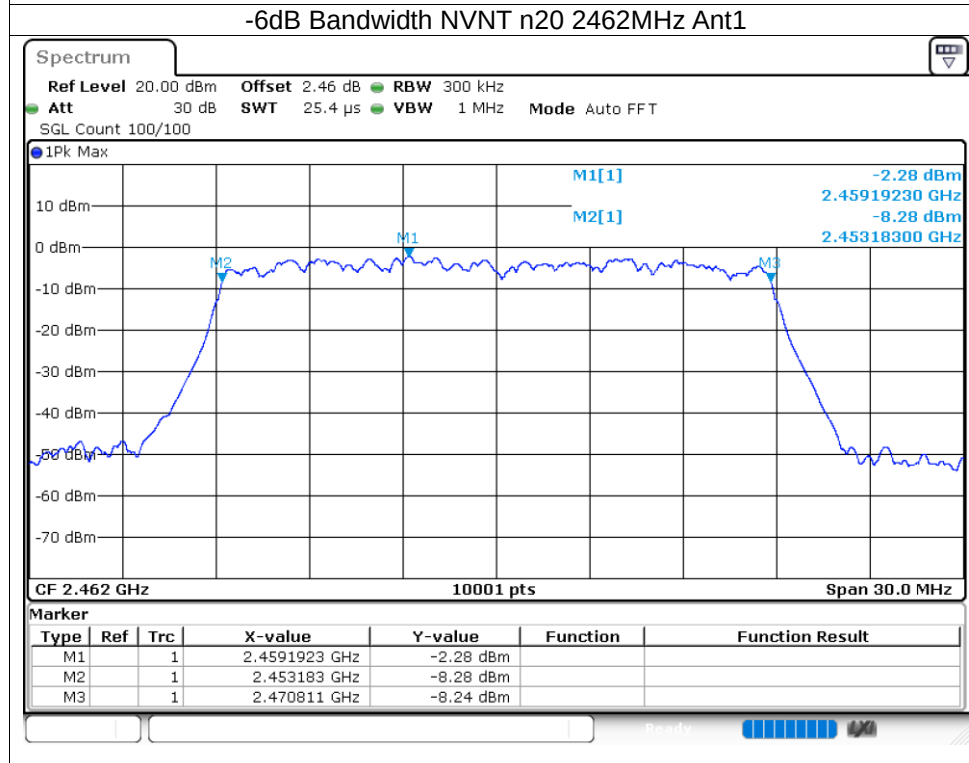
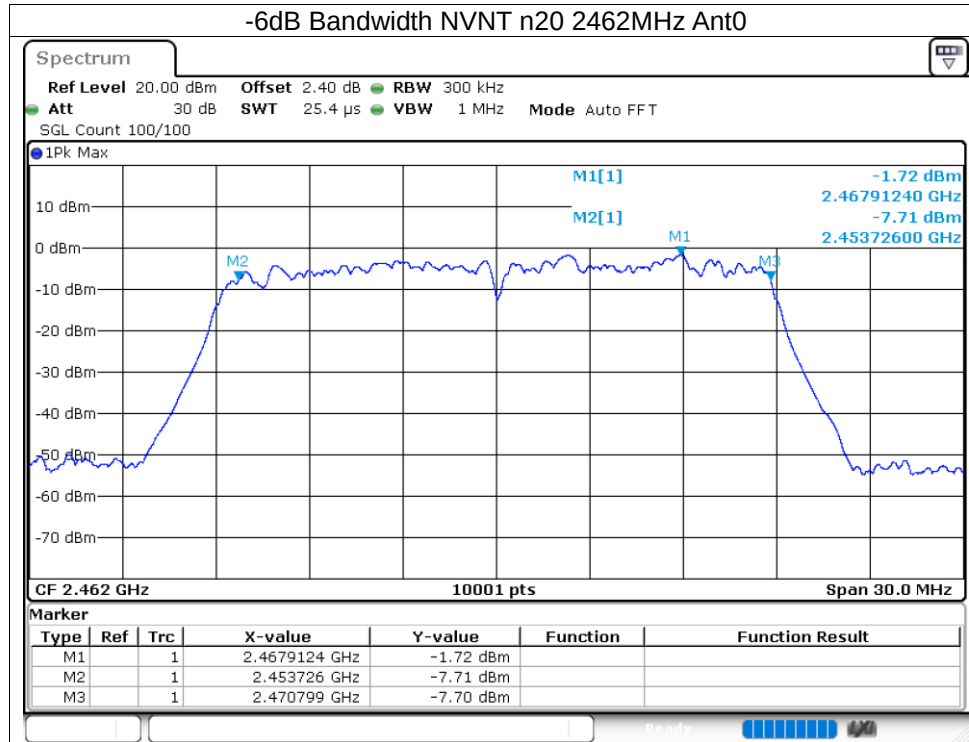


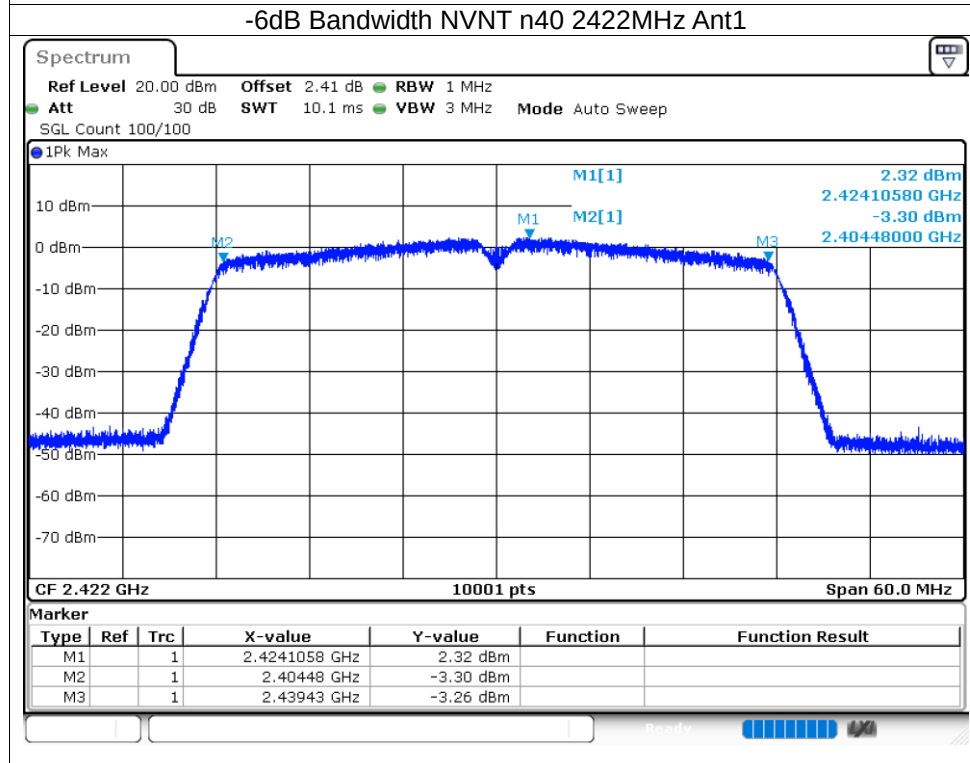
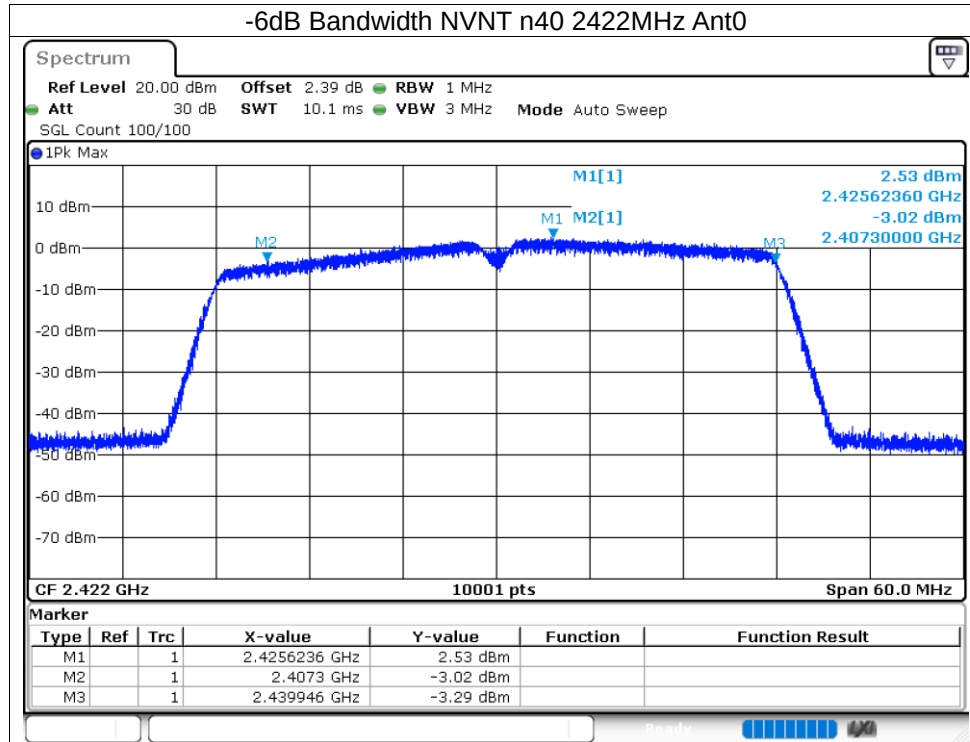
-6dB Bandwidth NVNT ax40 2452MHz Ant1

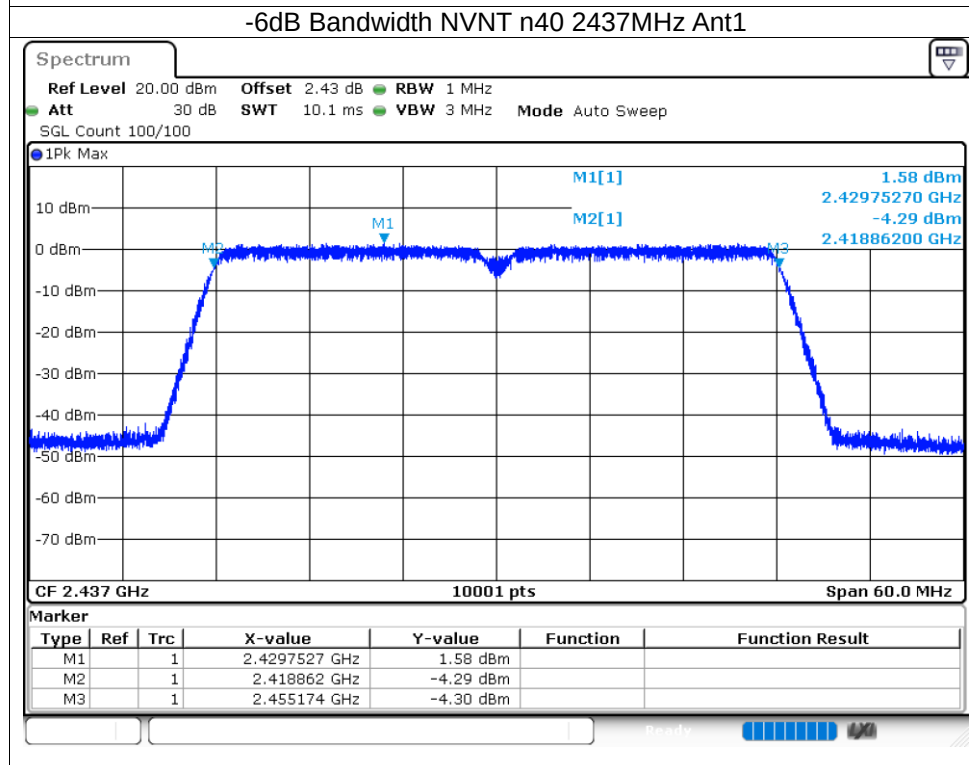
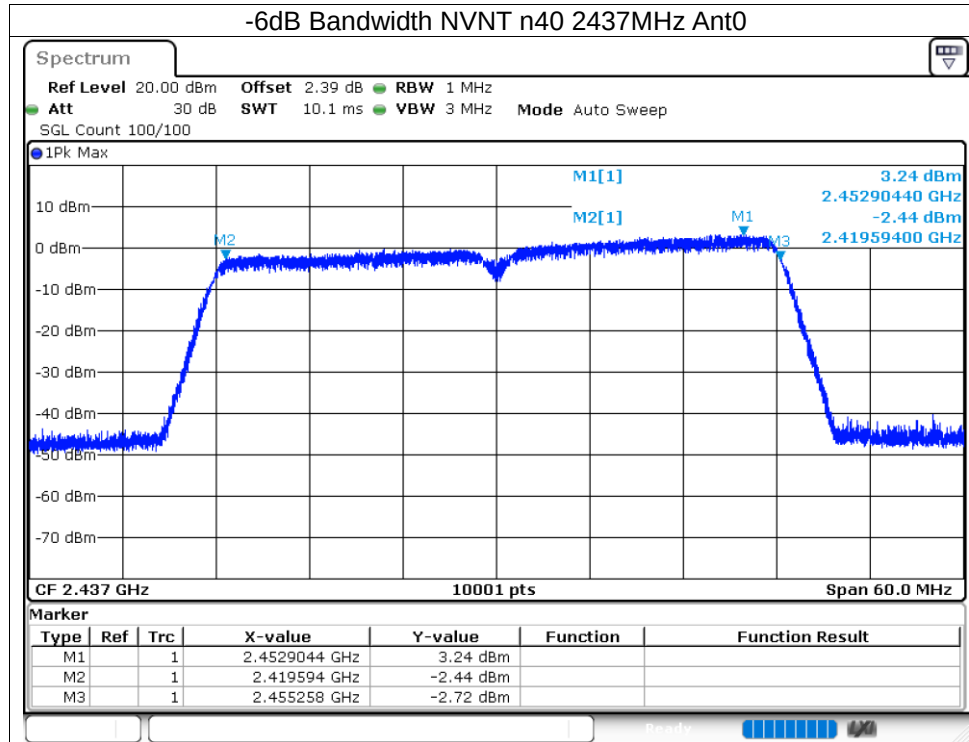


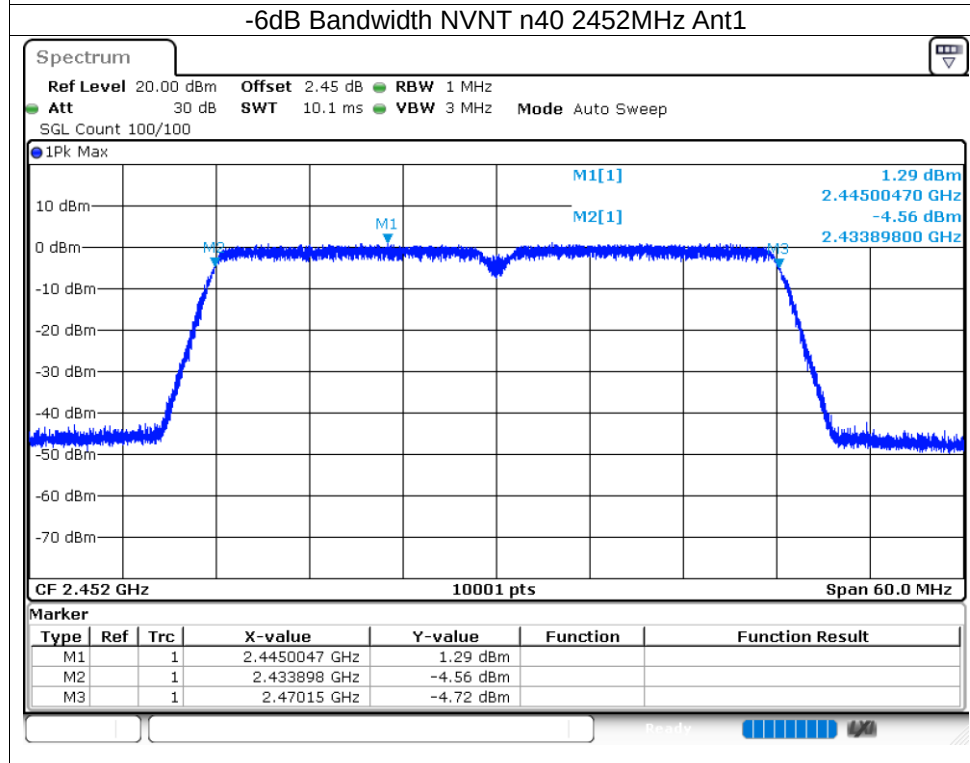
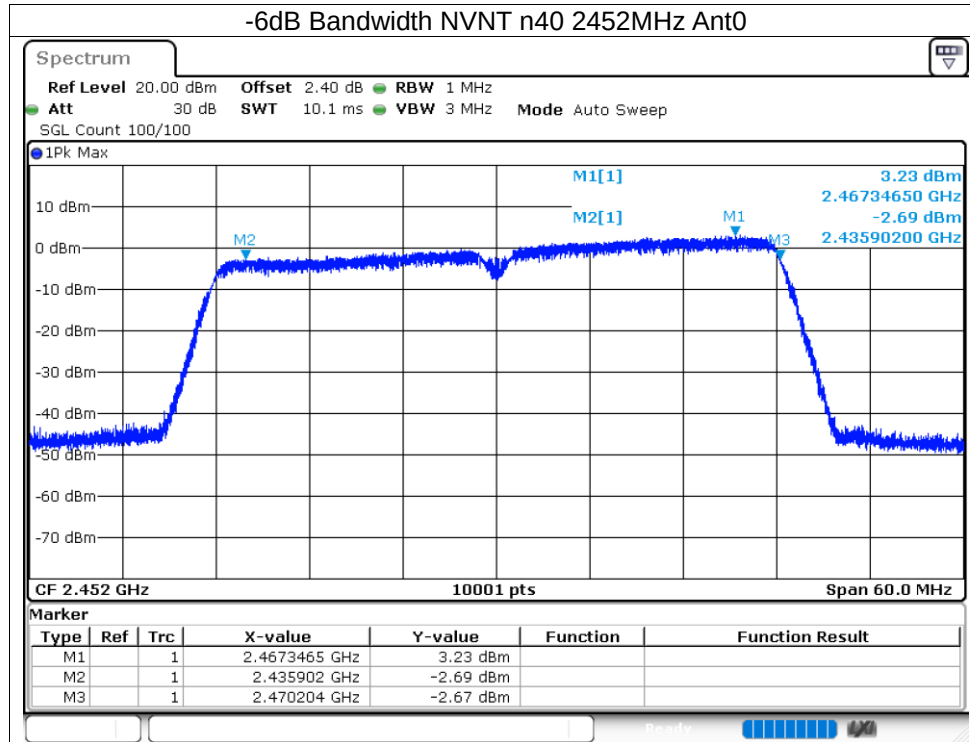






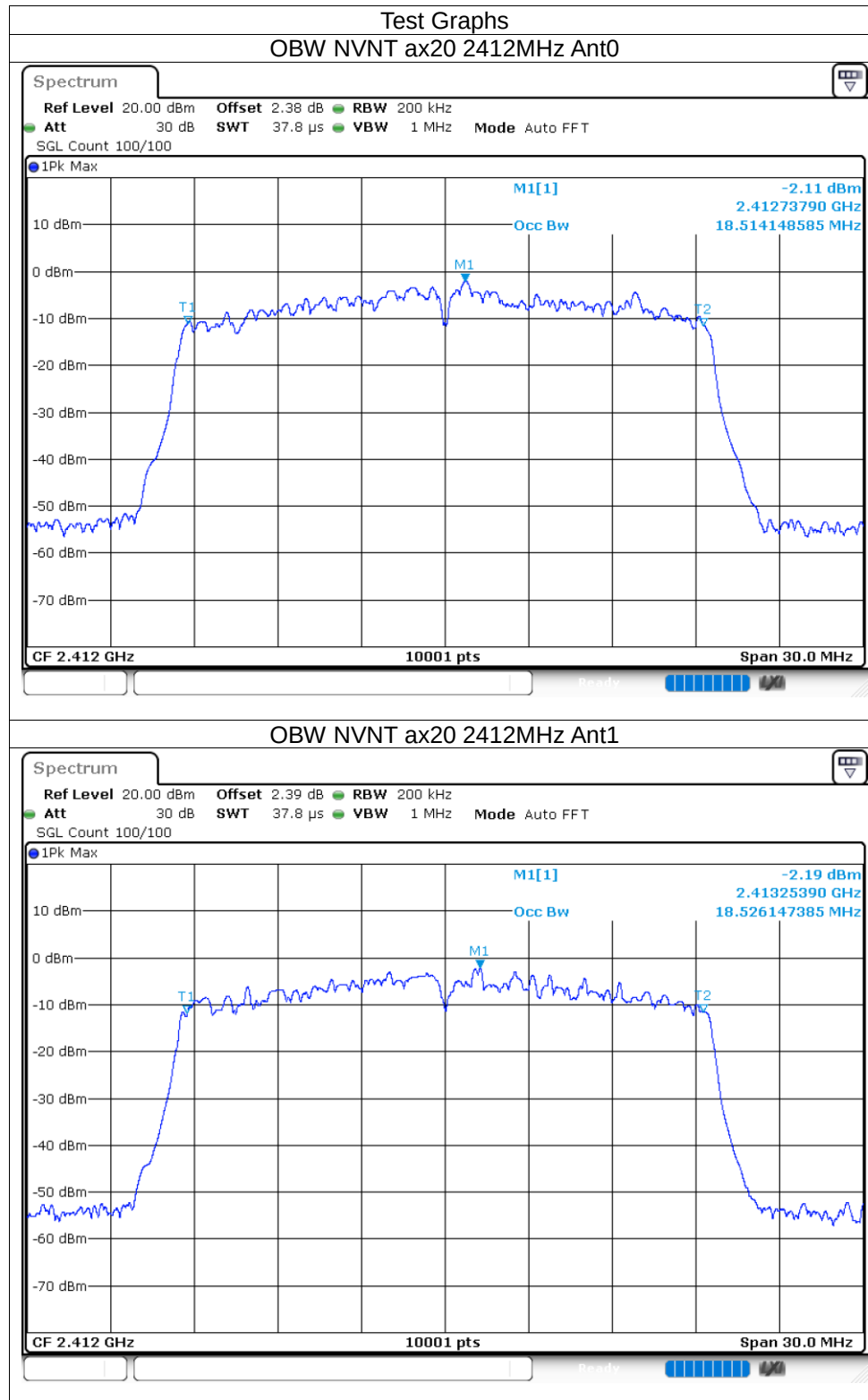


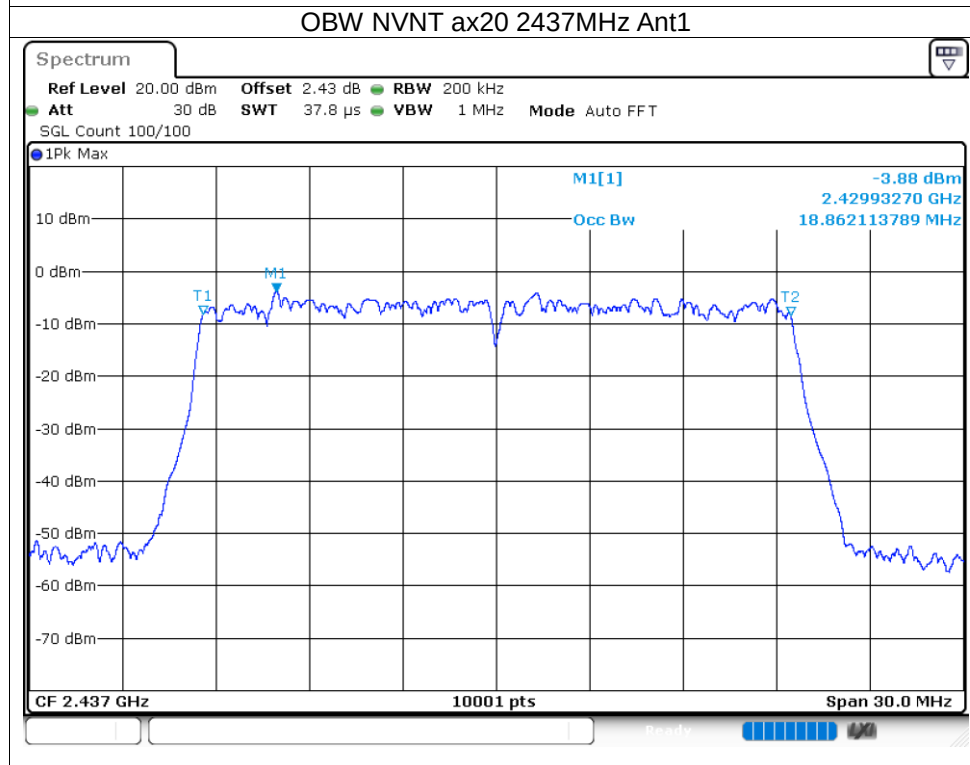
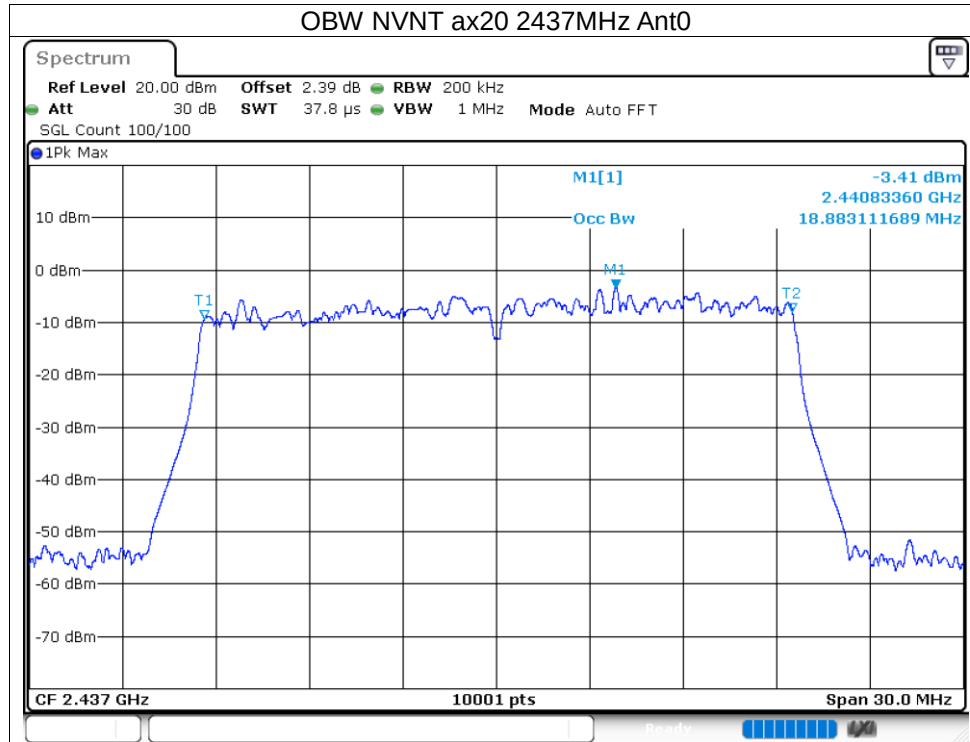


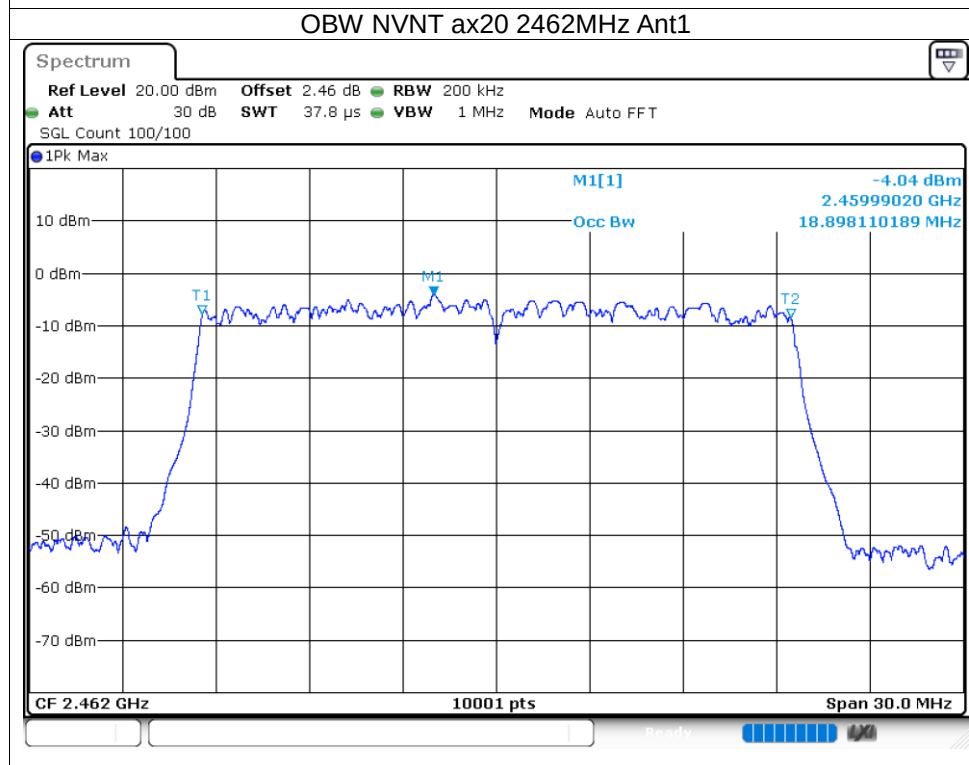
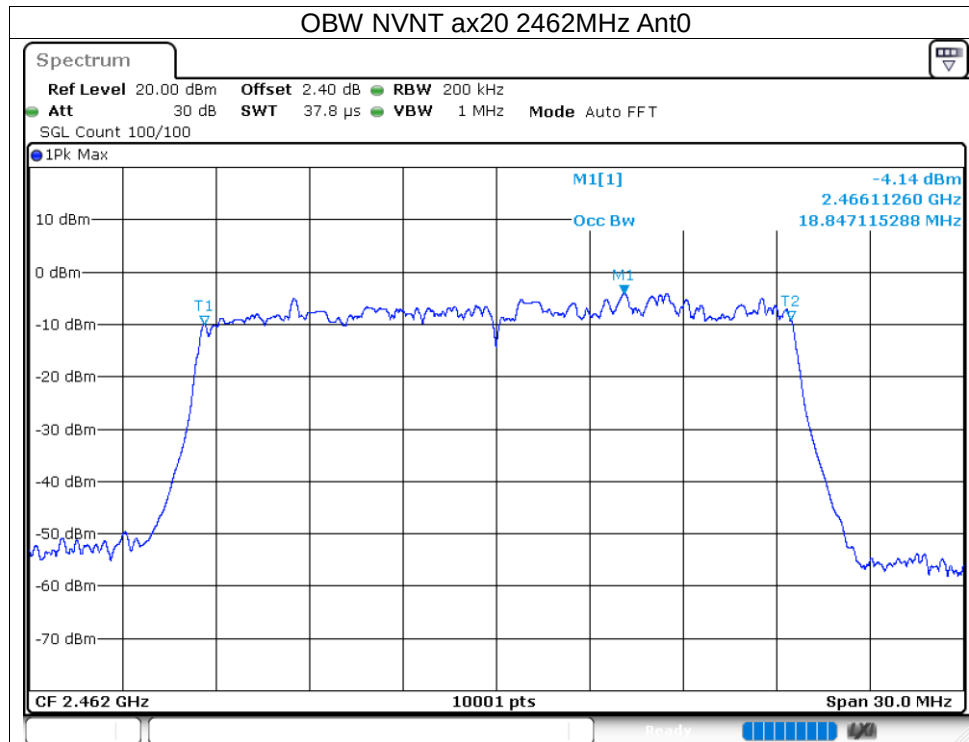


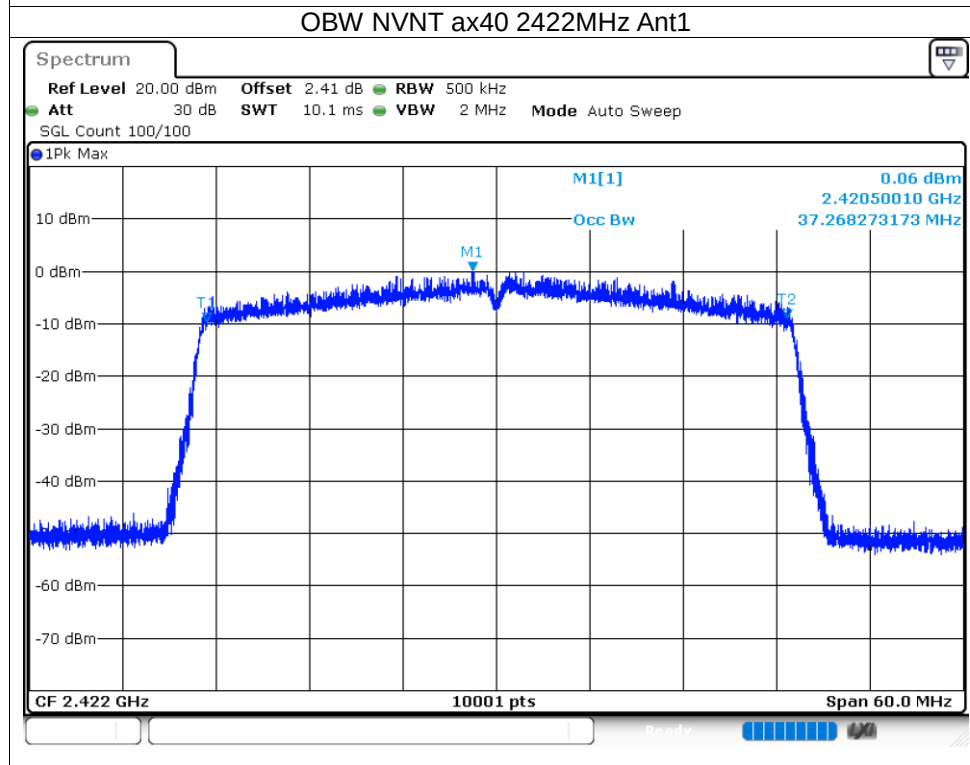
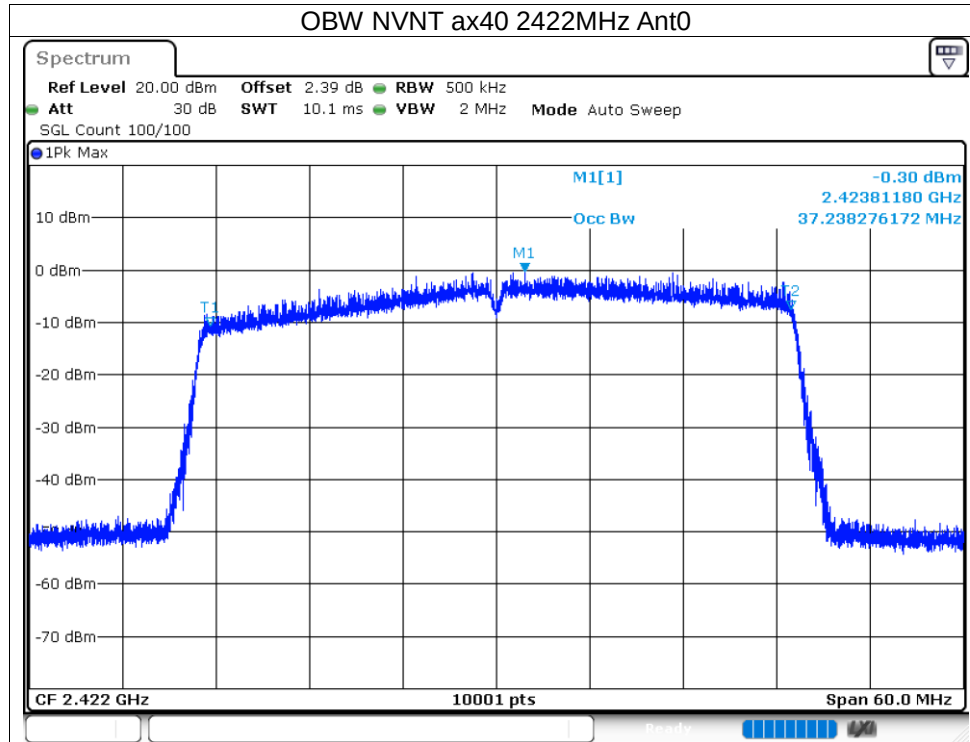
8.2.4 Occupied Channel Bandwidth

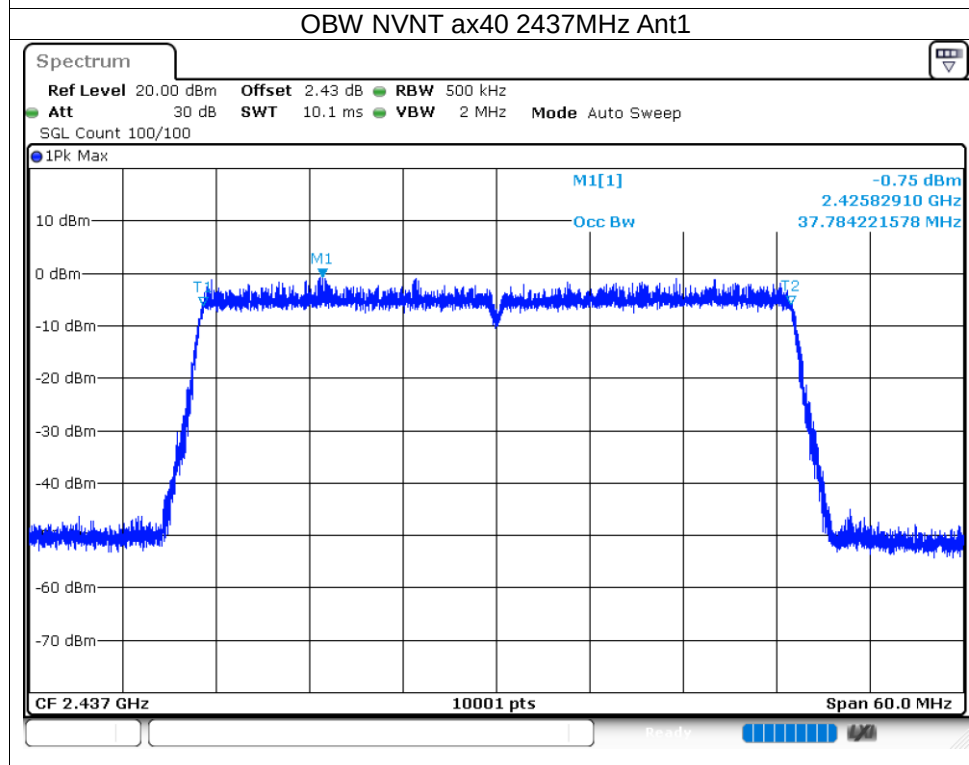
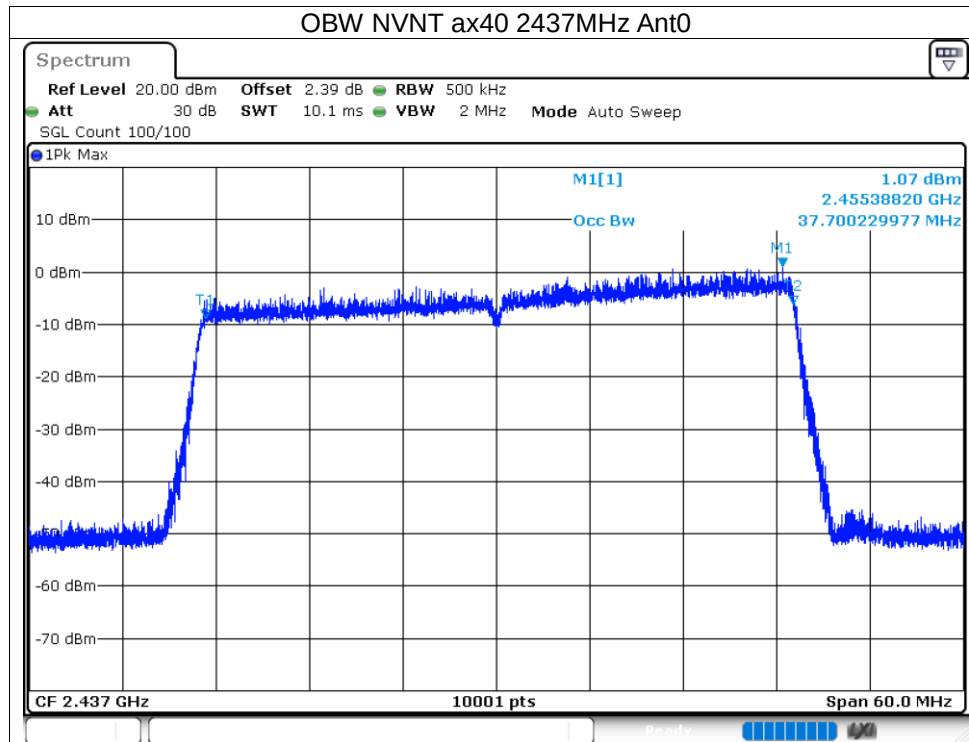
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant0	18.514
NVNT	ax20	2412	Ant1	18.526
NVNT	ax20	2437	Ant0	18.883
NVNT	ax20	2437	Ant1	18.862
NVNT	ax20	2462	Ant0	18.847
NVNT	ax20	2462	Ant1	18.898
NVNT	ax40	2422	Ant0	37.238
NVNT	ax40	2422	Ant1	37.268
NVNT	ax40	2437	Ant0	37.7
NVNT	ax40	2437	Ant1	37.784
NVNT	ax40	2452	Ant0	37.664
NVNT	ax40	2452	Ant1	37.748
NVNT	n20	2412	Ant0	17.236
NVNT	n20	2412	Ant1	17.236
NVNT	n20	2437	Ant0	17.548
NVNT	n20	2437	Ant1	17.551
NVNT	n20	2462	Ant0	17.536
NVNT	n20	2462	Ant1	17.527
NVNT	n40	2422	Ant0	35.576
NVNT	n40	2422	Ant1	35.588
NVNT	n40	2437	Ant0	36.098
NVNT	n40	2437	Ant1	36.158
NVNT	n40	2452	Ant0	36.062
NVNT	n40	2452	Ant1	36.116

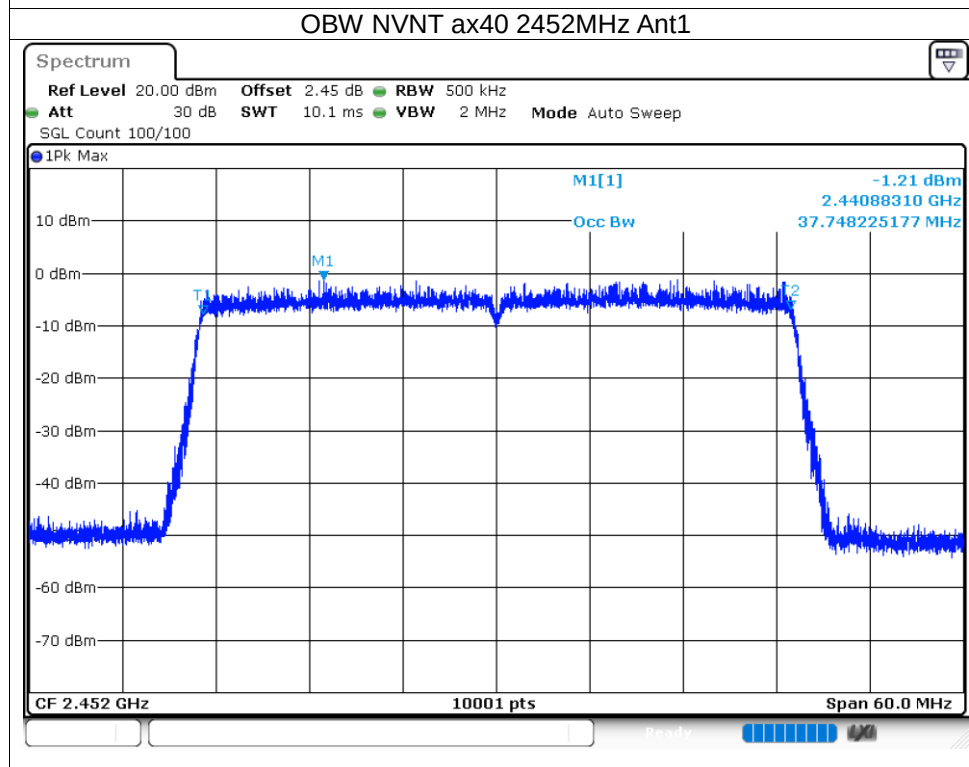
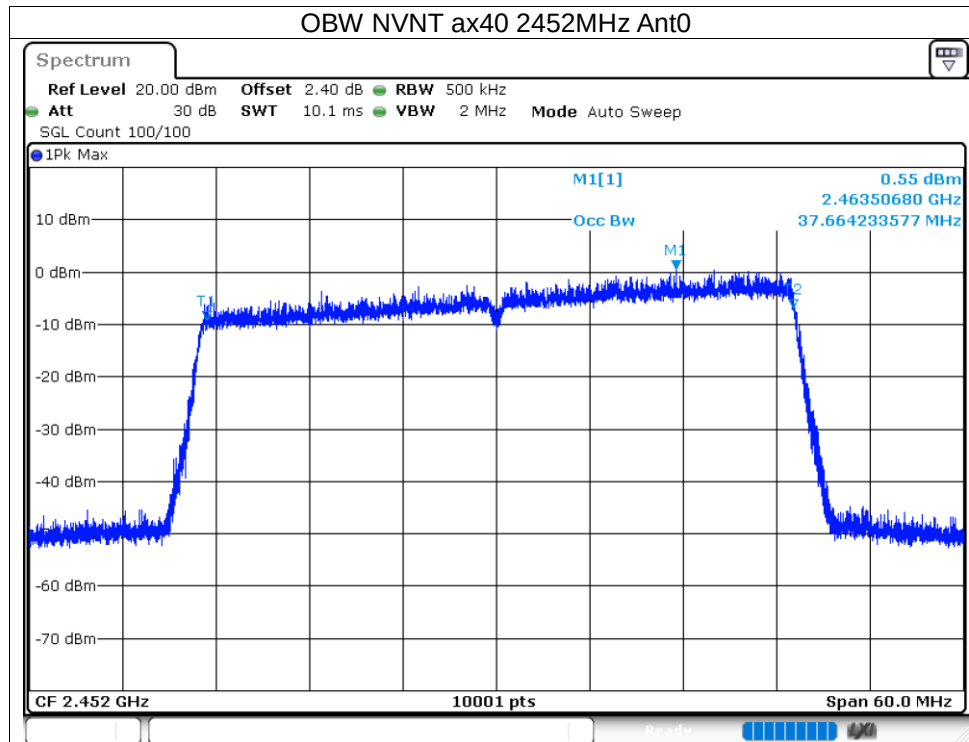




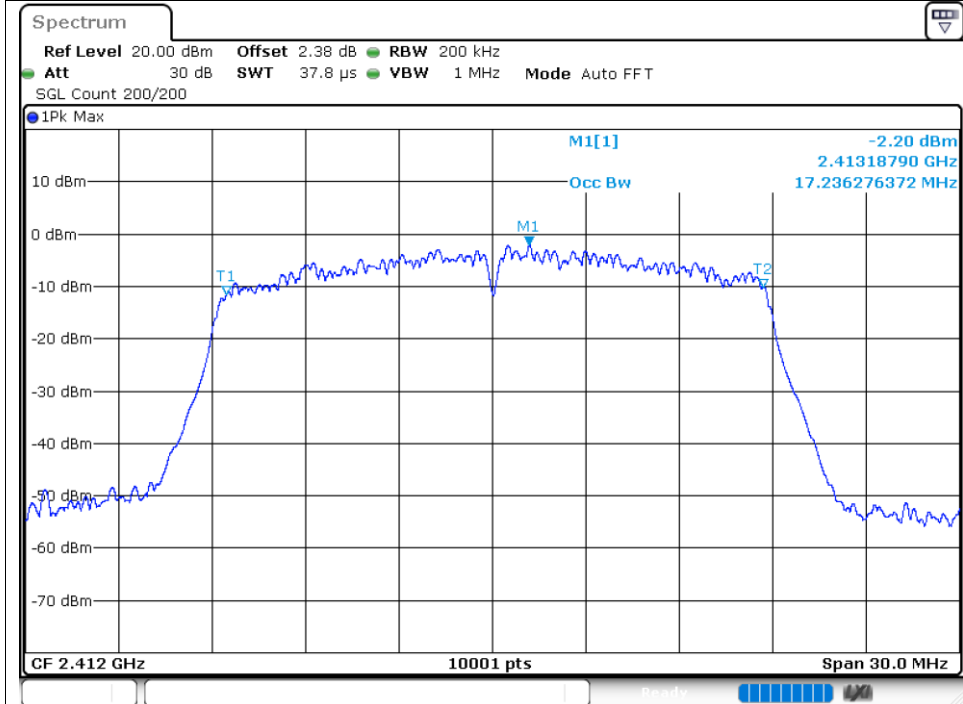




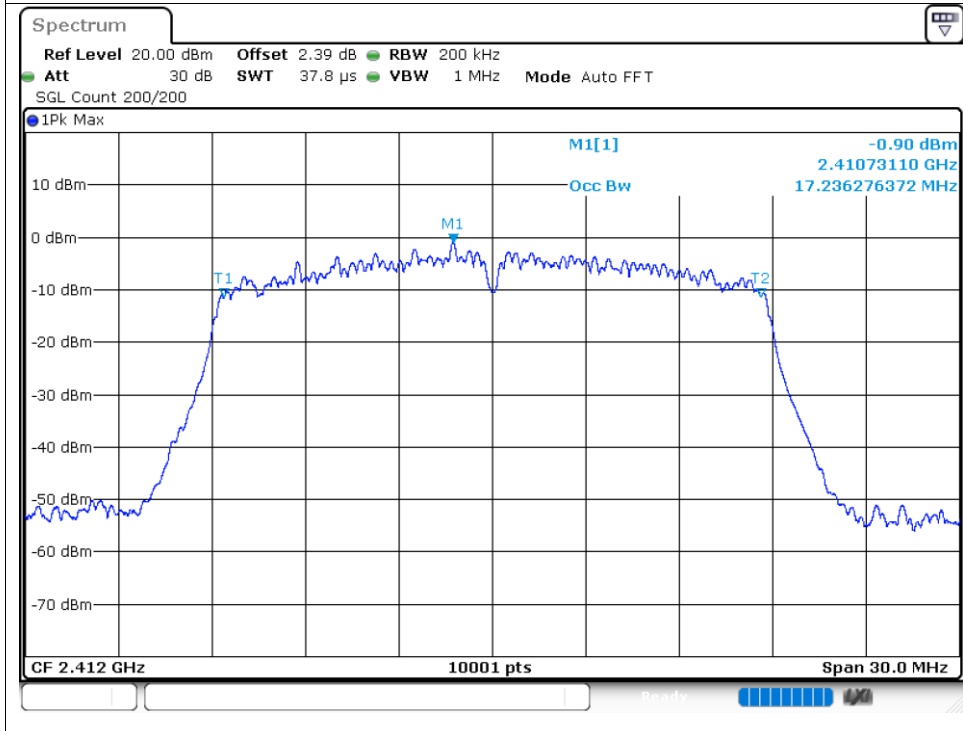




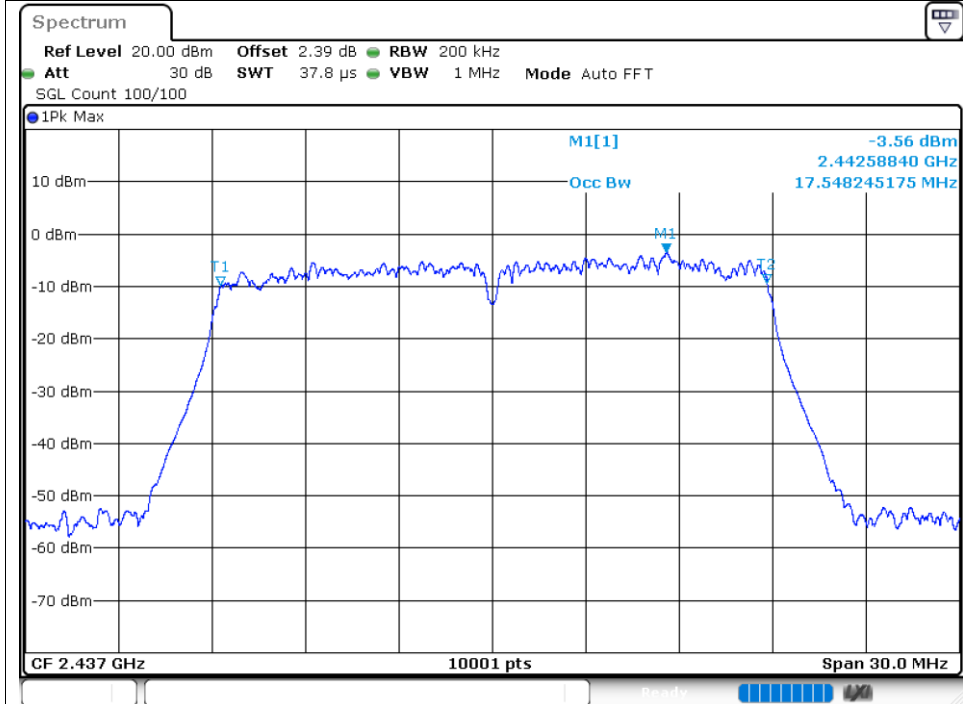
OBW NVNT n20 2412MHz Ant0



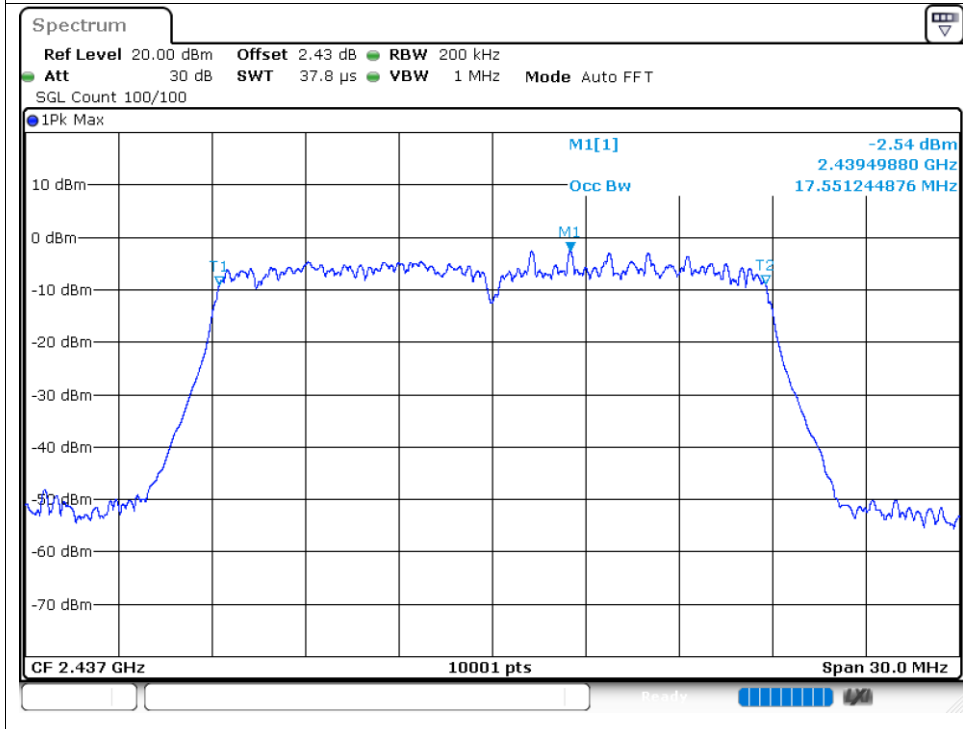
OBW NVNT n20 2412MHz Ant1



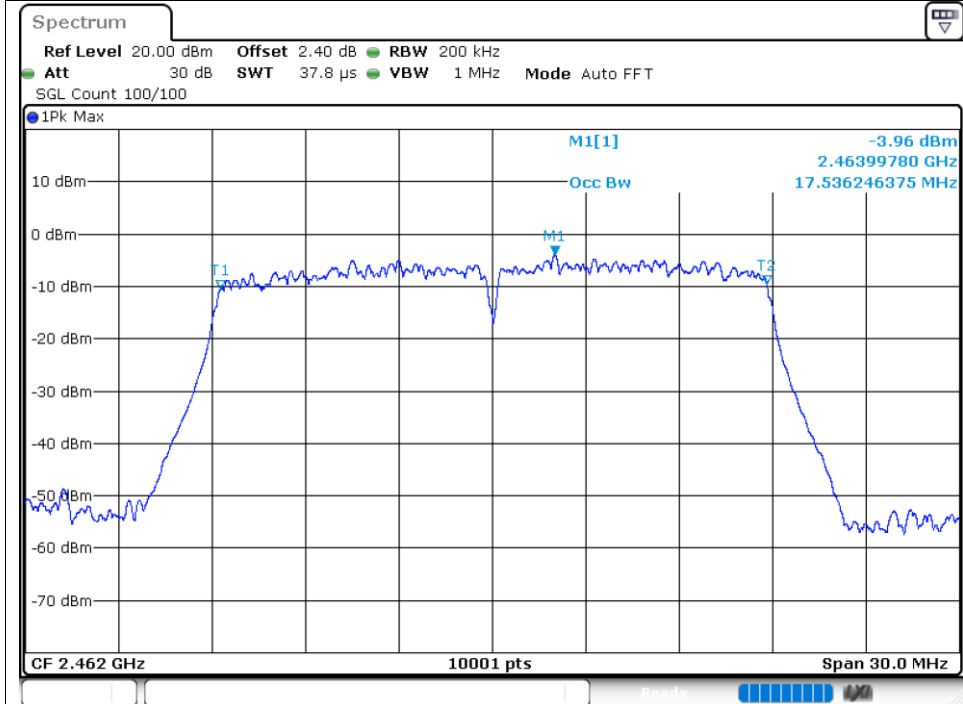
OBW NVNT n20 2437MHz Ant0



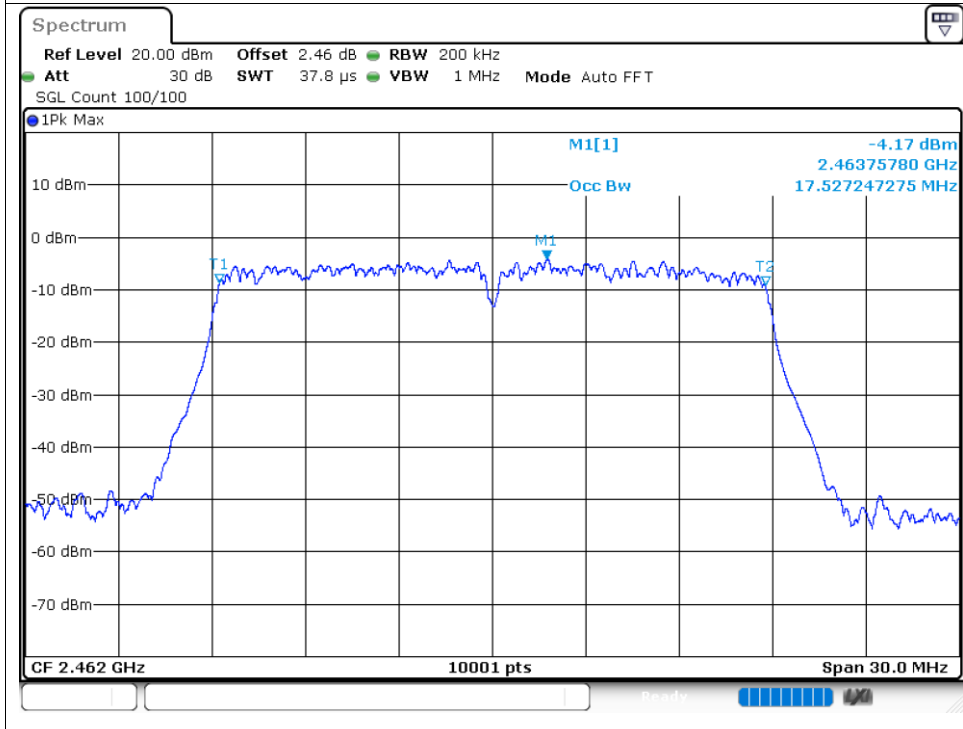
OBW NVNT n20 2437MHz Ant1



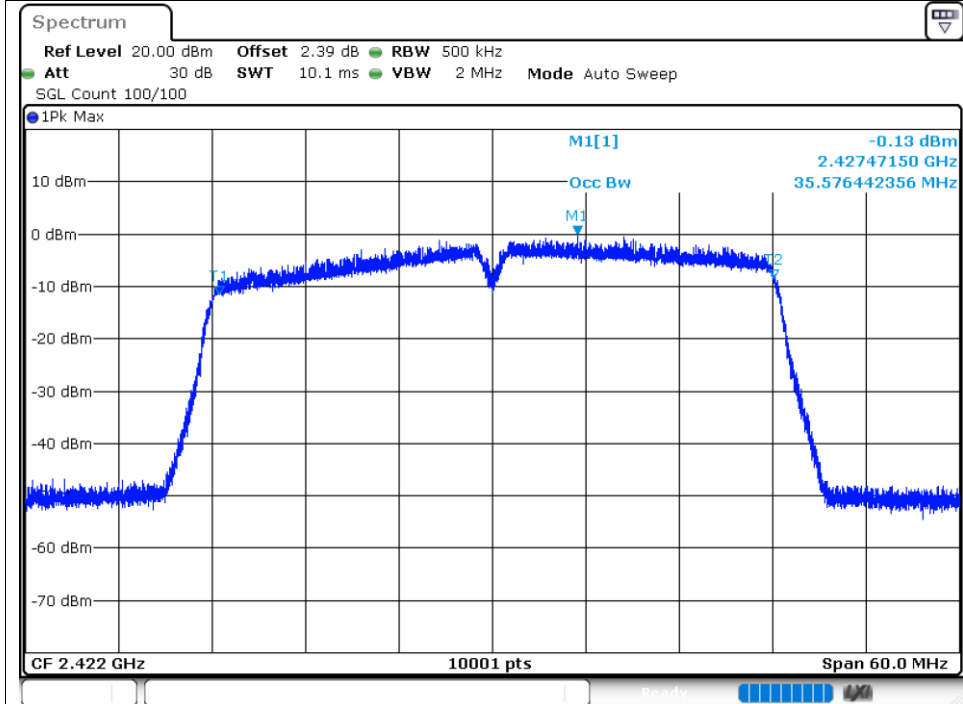
OBW NVNT n20 2462MHz Ant0



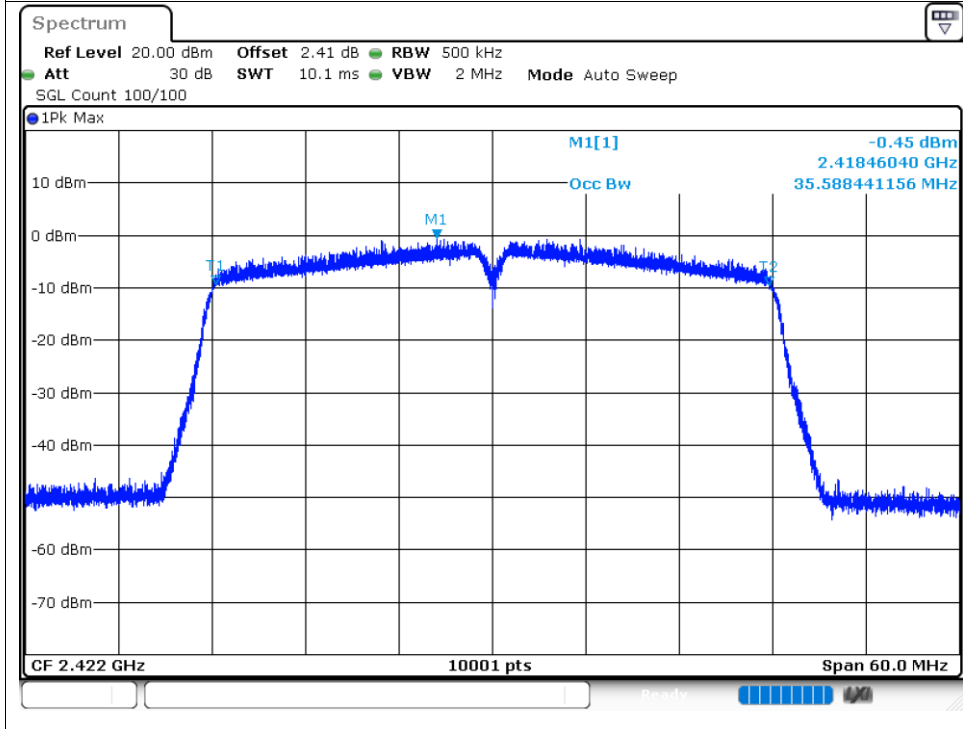
OBW NVNT n20 2462MHz Ant1

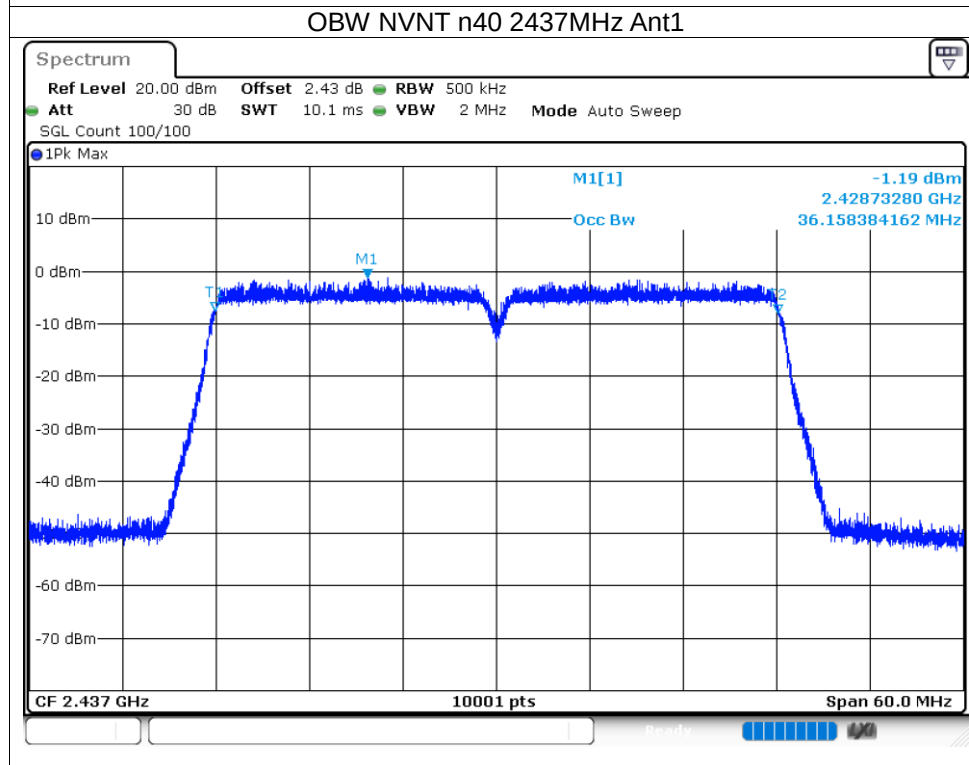
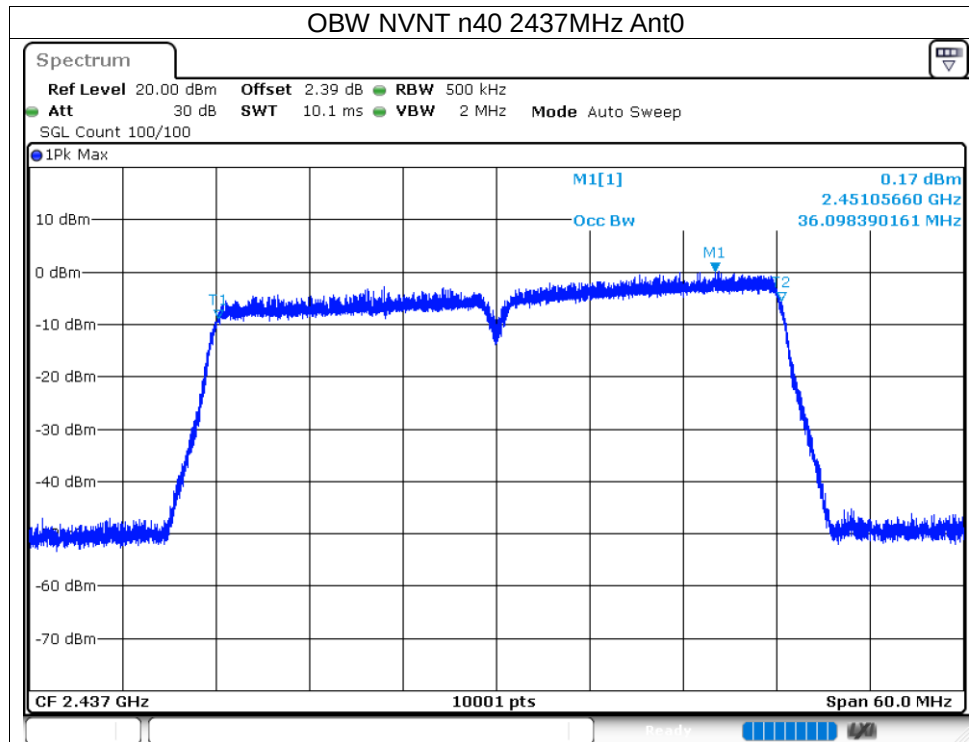


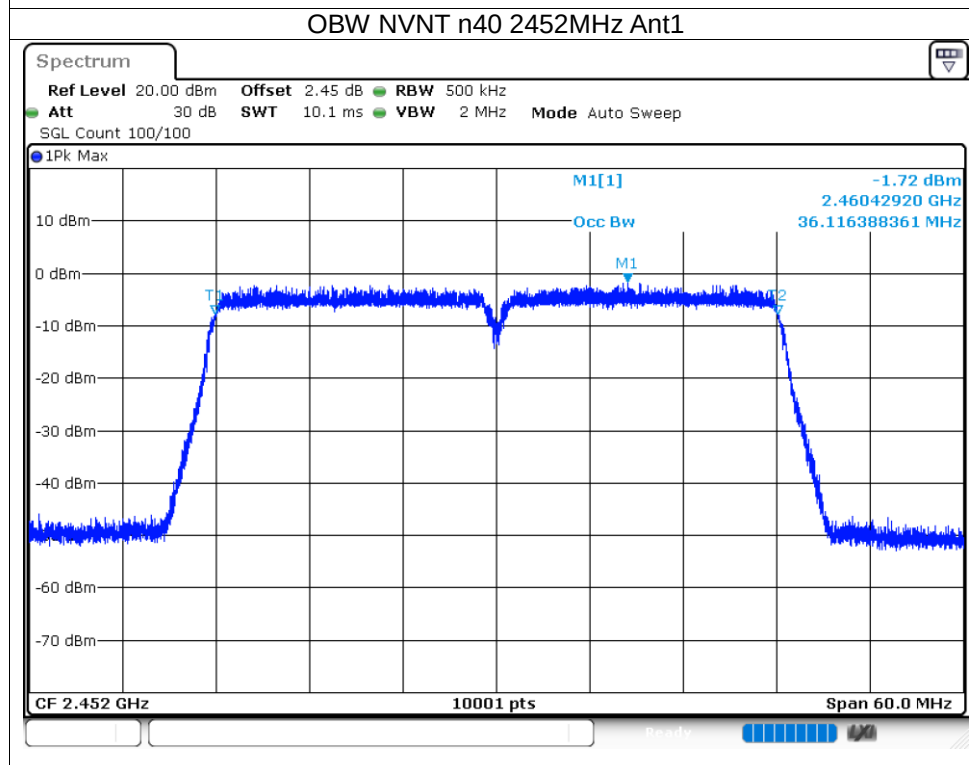
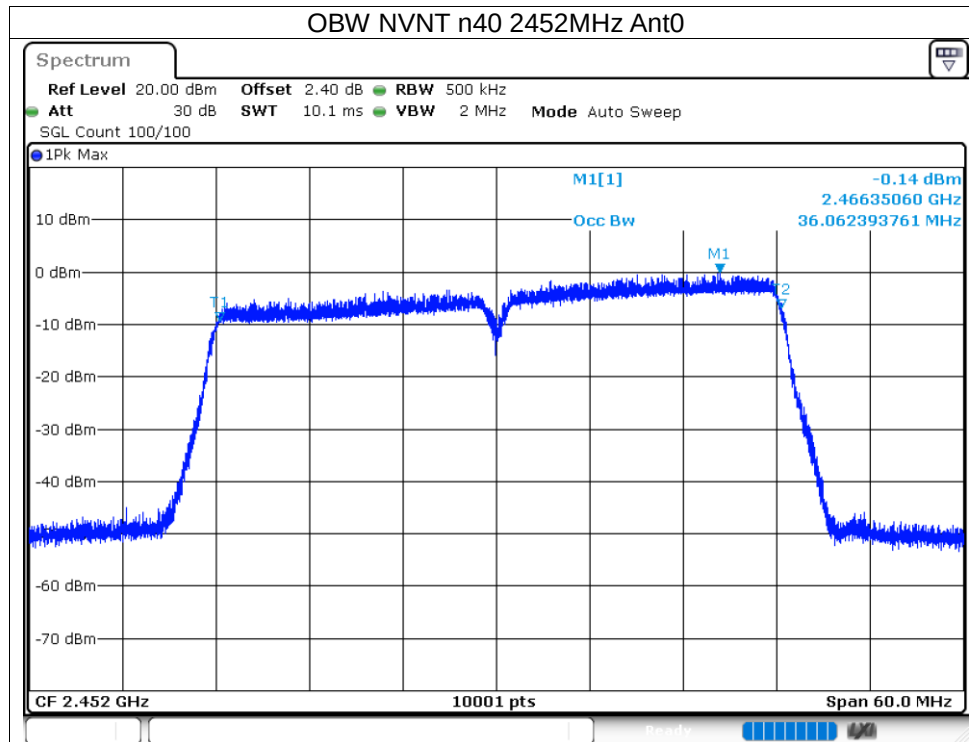
OBW NVNT n40 2422MHz Ant0



OBW NVNT n40 2422MHz Ant1

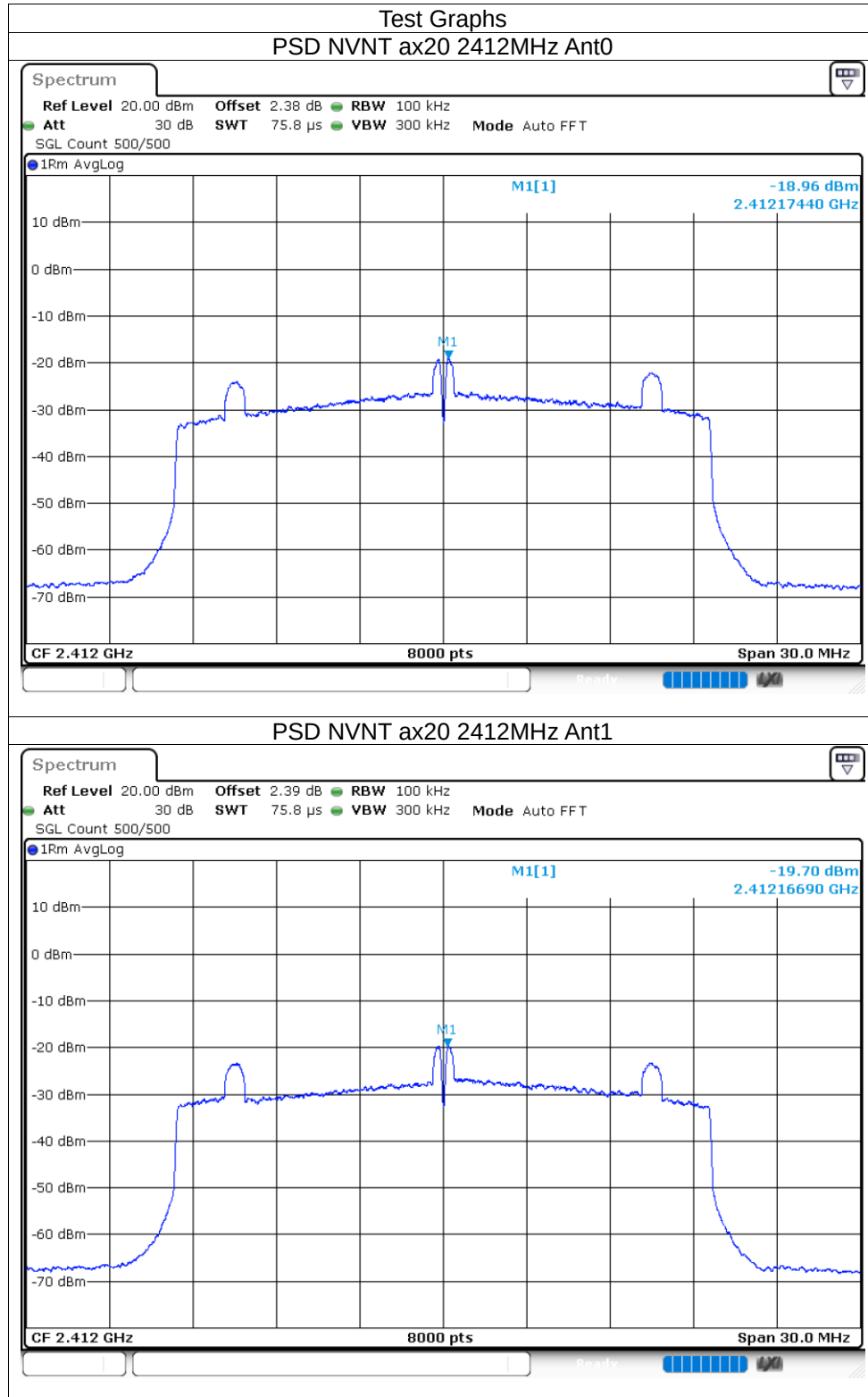




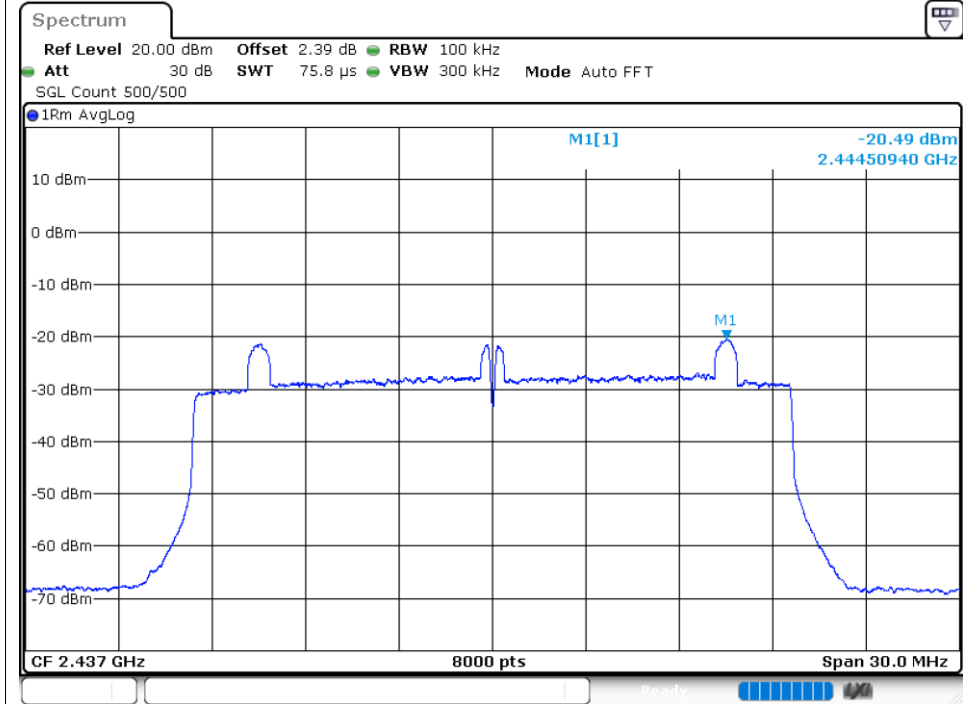


8.2.5 Maximum Power Spectral Density Level

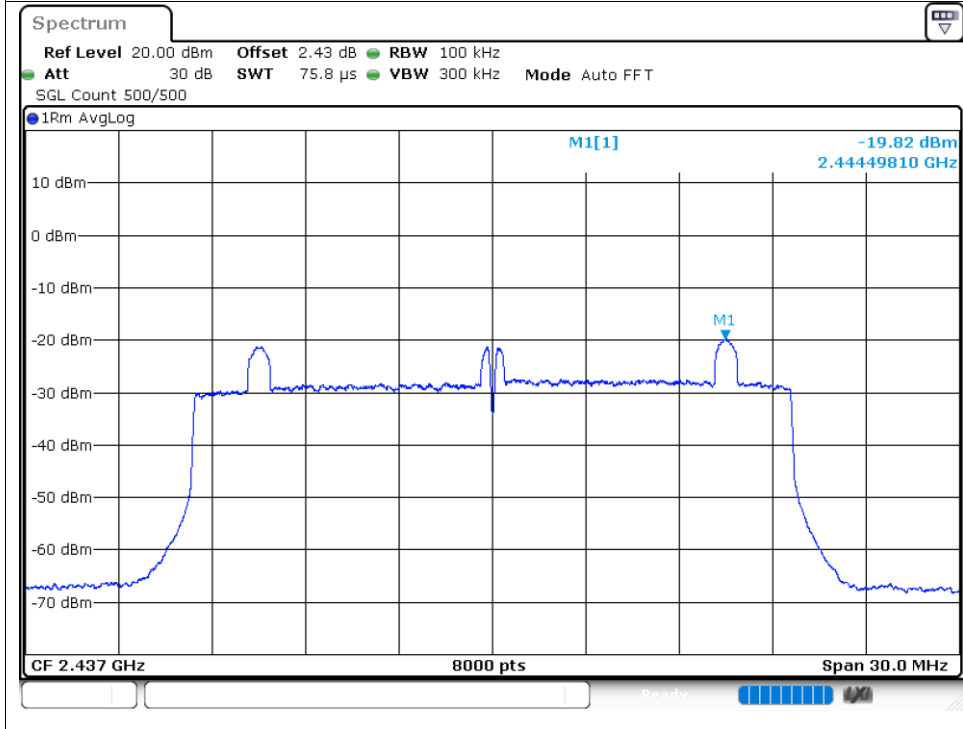
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant0	-18.96	0.97	-17.99	8	Pass
NVNT	ax20	2412	Ant1	-19.7	0.97	-18.73	8	Pass
NVNT	ax20	2412	Sum	-16.3	0.97	-15.33	8	Pass
NVNT	ax20	2437	Ant0	-20.49	1.08	-19.41	8	Pass
NVNT	ax20	2437	Ant1	-19.82	1.08	-18.74	8	Pass
NVNT	ax20	2437	Sum	-17.13	1.08	-16.05	8	Pass
NVNT	ax20	2462	Ant0	-21.48	1.02	-20.46	8	Pass
NVNT	ax20	2462	Ant1	-20.92	1.02	-19.9	8	Pass
NVNT	ax20	2462	Sum	-18.18	1.02	-17.16	8	Pass
NVNT	ax40	2422	Ant0	-25.58	1.81	-23.77	8	Pass
NVNT	ax40	2422	Ant1	-25.95	1.81	-24.14	8	Pass
NVNT	ax40	2422	Sum	-22.75	1.81	-20.94	8	Pass
NVNT	ax40	2437	Ant0	-25.33	1.86	-23.47	8	Pass
NVNT	ax40	2437	Ant1	-25.88	1.86	-24.02	8	Pass
NVNT	ax40	2437	Sum	-22.59	1.86	-20.73	8	Pass
NVNT	ax40	2452	Ant0	-24.91	1.84	-23.07	8	Pass
NVNT	ax40	2452	Ant1	-27.11	1.84	-25.27	8	Pass
NVNT	ax40	2452	Sum	-22.86	1.84	-21.02	8	Pass
NVNT	n20	2412	Ant0	-22.81	2.2	-20.61	8	Pass
NVNT	n20	2412	Ant1	-22.7	2.2	-20.5	8	Pass
NVNT	n20	2412	Sum	-19.74	2.2	-17.54	8	Pass
NVNT	n20	2437	Ant0	-21.78	2.2	-19.58	8	Pass
NVNT	n20	2437	Ant1	-22.64	2.2	-20.44	8	Pass
NVNT	n20	2437	Sum	-19.18	2.2	-16.98	8	Pass
NVNT	n20	2462	Ant0	-23.12	2.21	-20.91	8	Pass
NVNT	n20	2462	Ant1	-22.6	2.21	-20.39	8	Pass
NVNT	n20	2462	Sum	-19.84	2.21	-17.63	8	Pass
NVNT	n40	2422	Ant0	-22.25	1.56	-20.69	8	Pass
NVNT	n40	2422	Ant1	-22.57	1.56	-21.01	8	Pass
NVNT	n40	2422	Sum	-19.4	1.56	-17.84	8	Pass
NVNT	n40	2437	Ant0	-21.37	1.56	-19.81	8	Pass
NVNT	n40	2437	Ant1	-24.05	1.56	-22.49	8	Pass
NVNT	n40	2437	Sum	-19.5	1.56	-17.94	8	Pass
NVNT	n40	2452	Ant0	-22.74	1.59	-21.15	8	Pass
NVNT	n40	2452	Ant1	-24.32	1.59	-22.73	8	Pass
NVNT	n40	2452	Sum	-20.45	1.59	-18.86	8	Pass

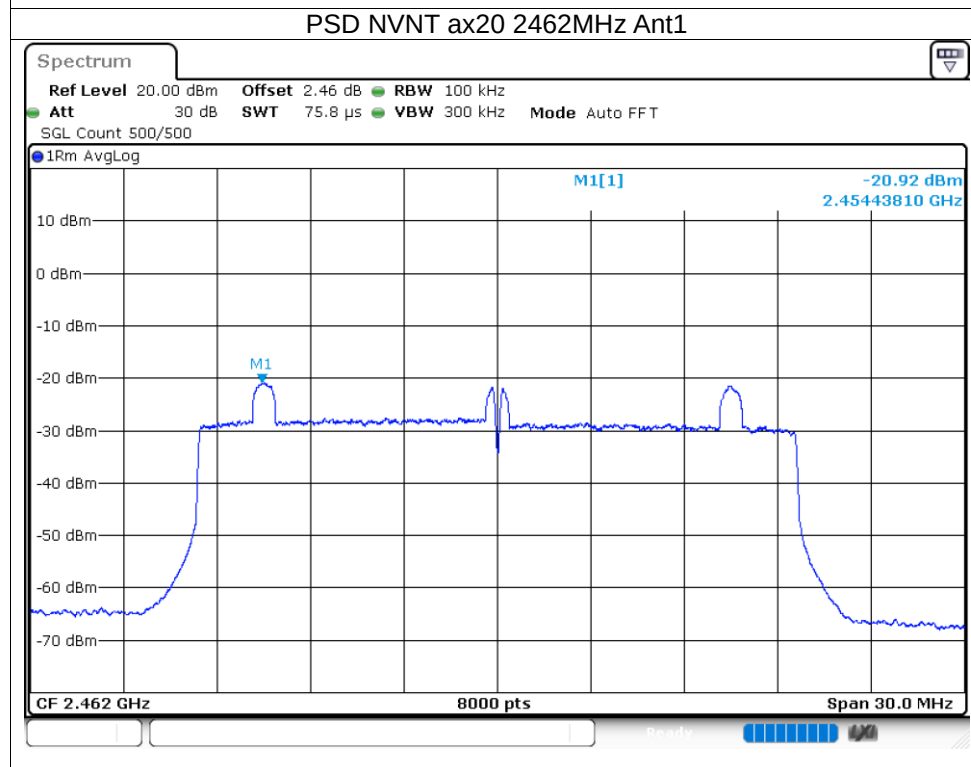
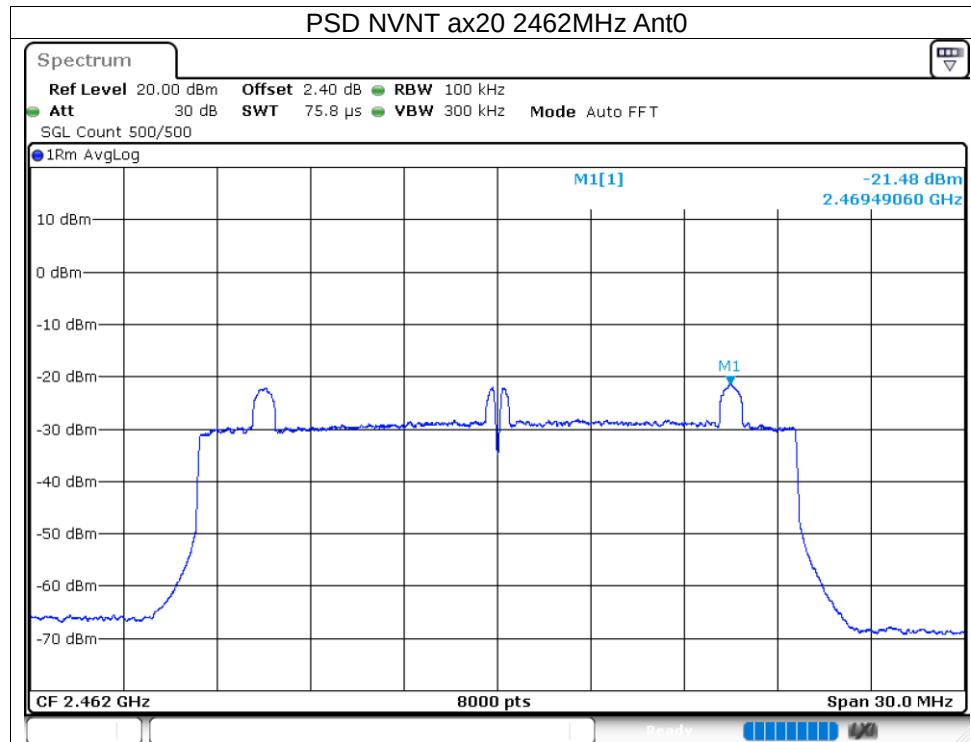


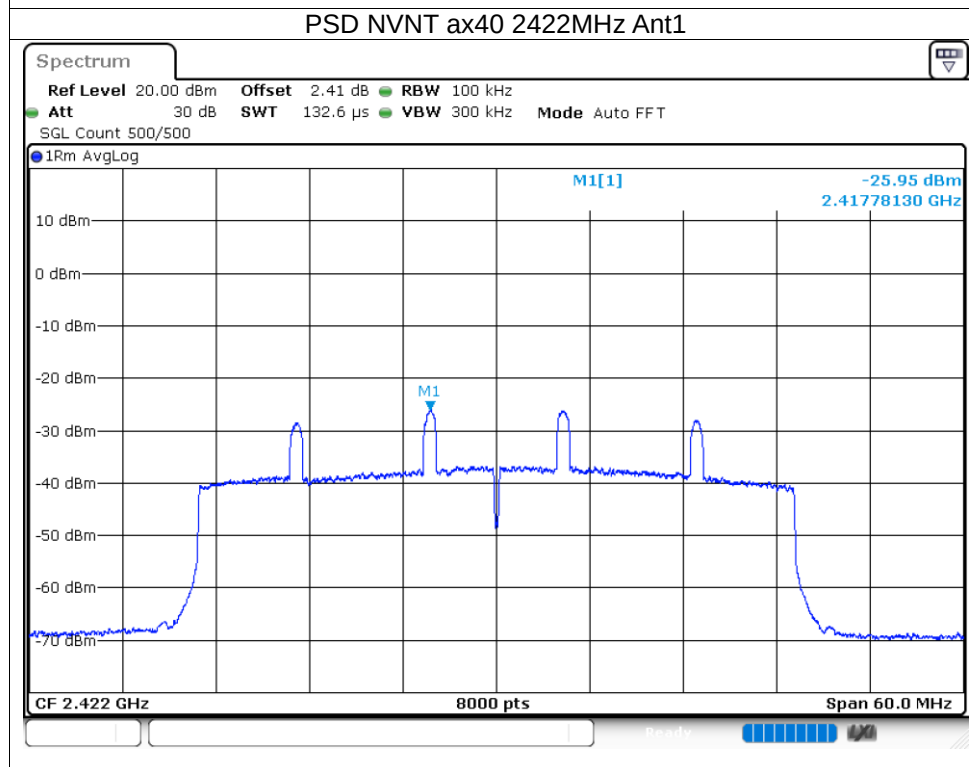
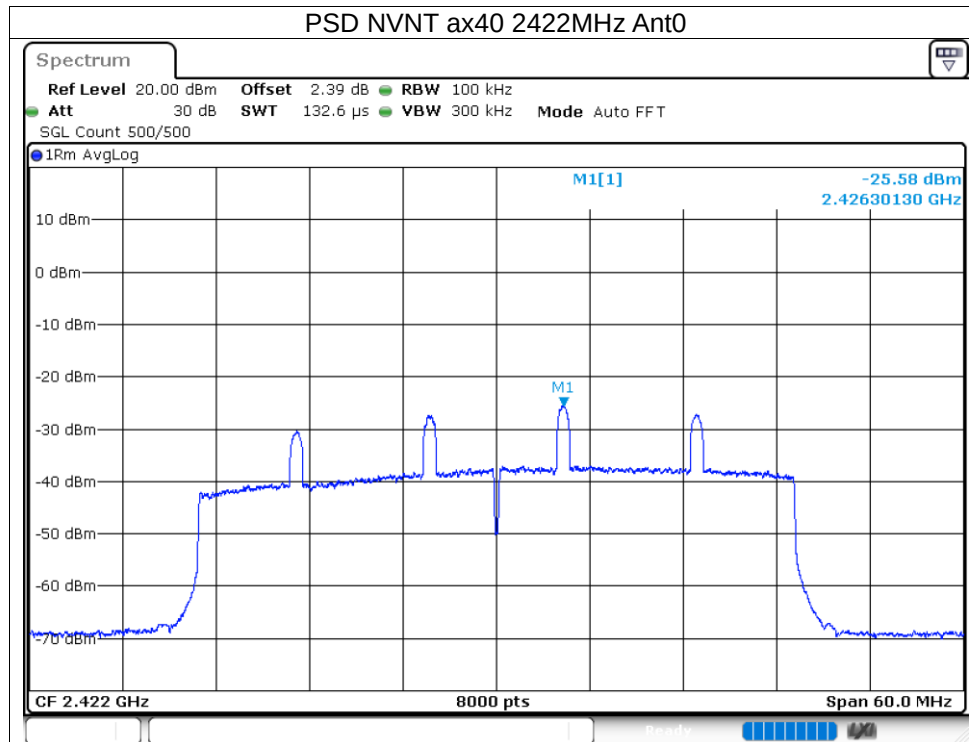
PSD NVNT ax20 2437MHz Ant0



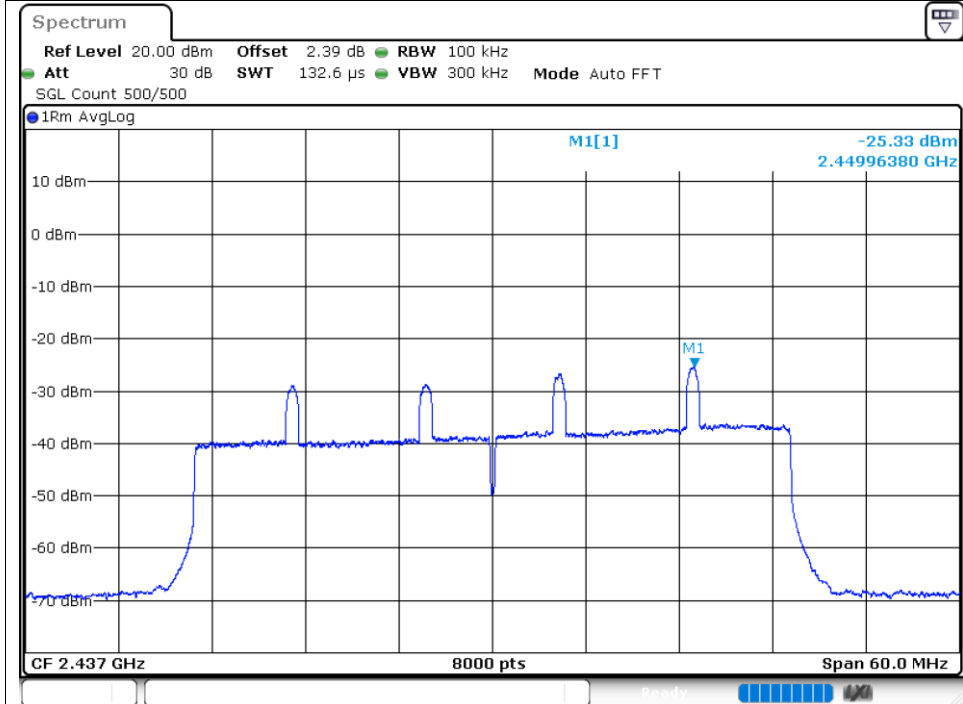
PSD NVNT ax20 2437MHz Ant1







PSD NVNT ax40 2437MHz Ant0



PSD NVNT ax40 2437MHz Ant1

