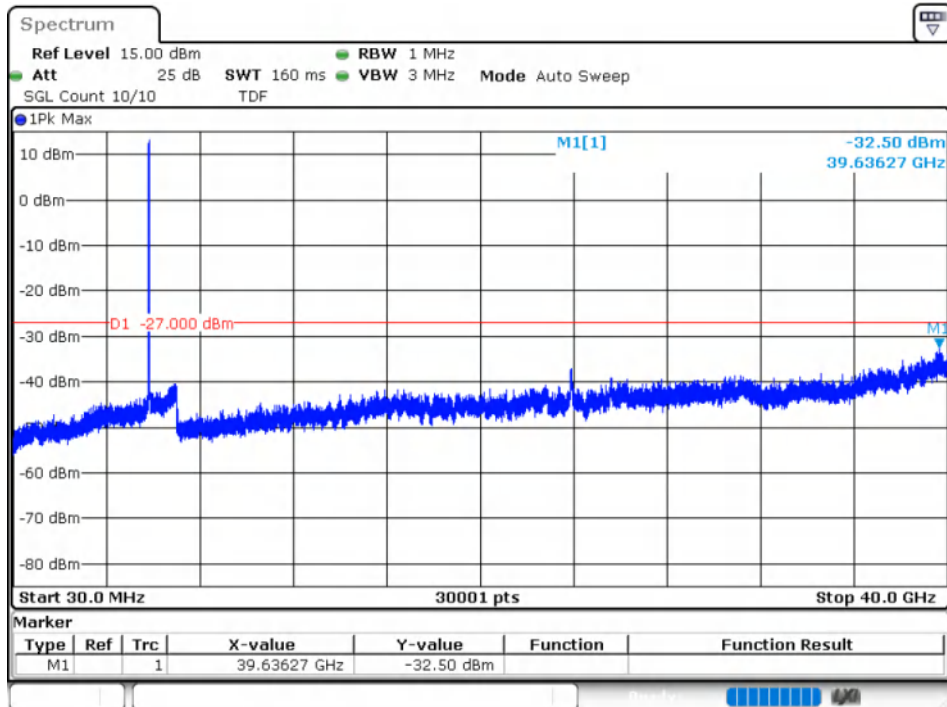
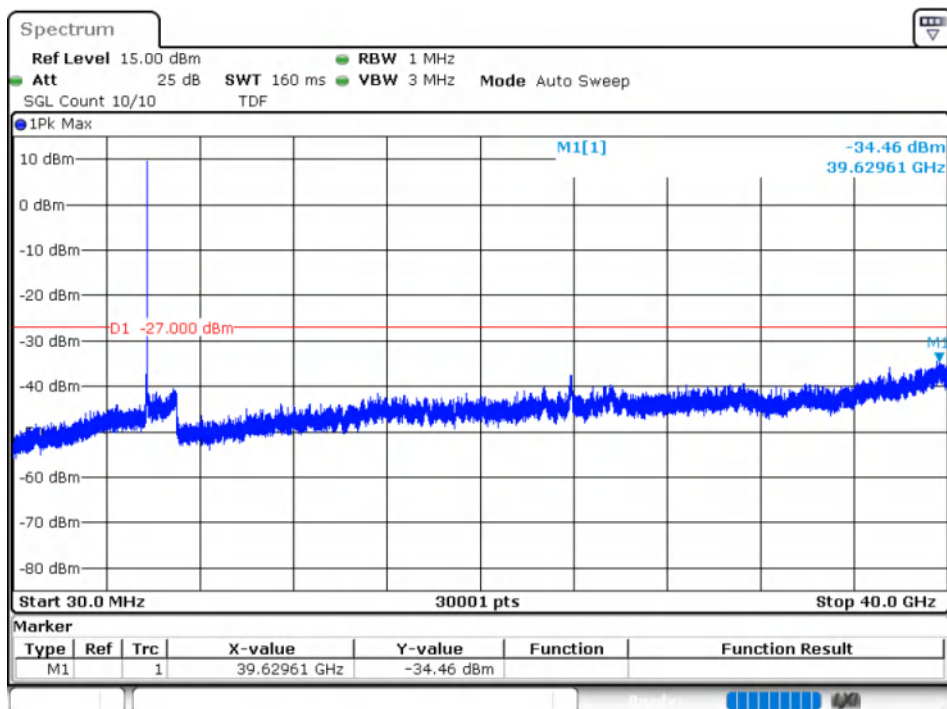


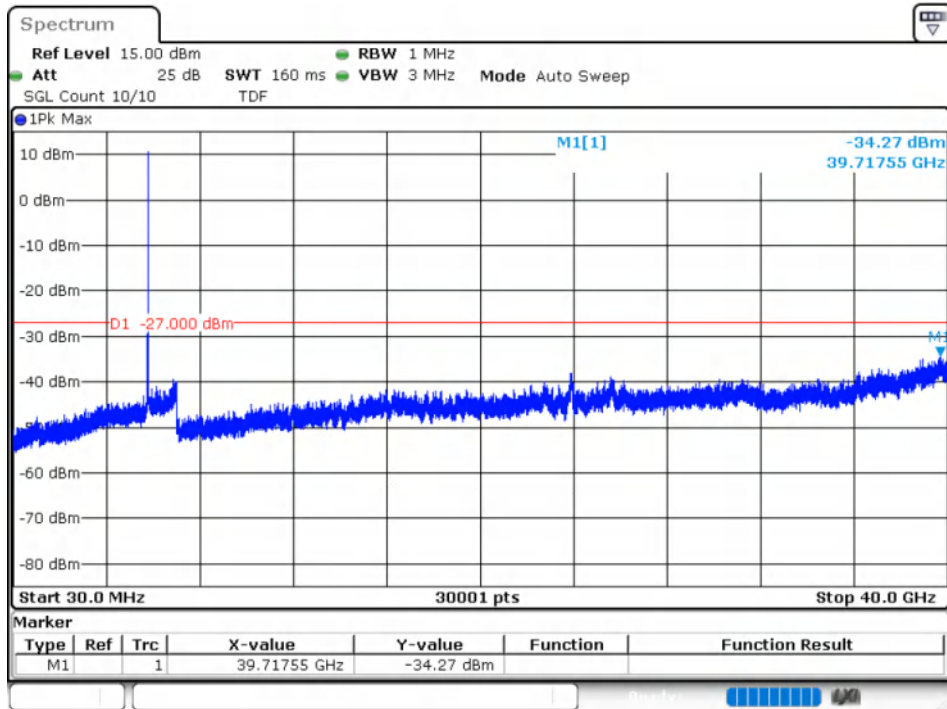
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



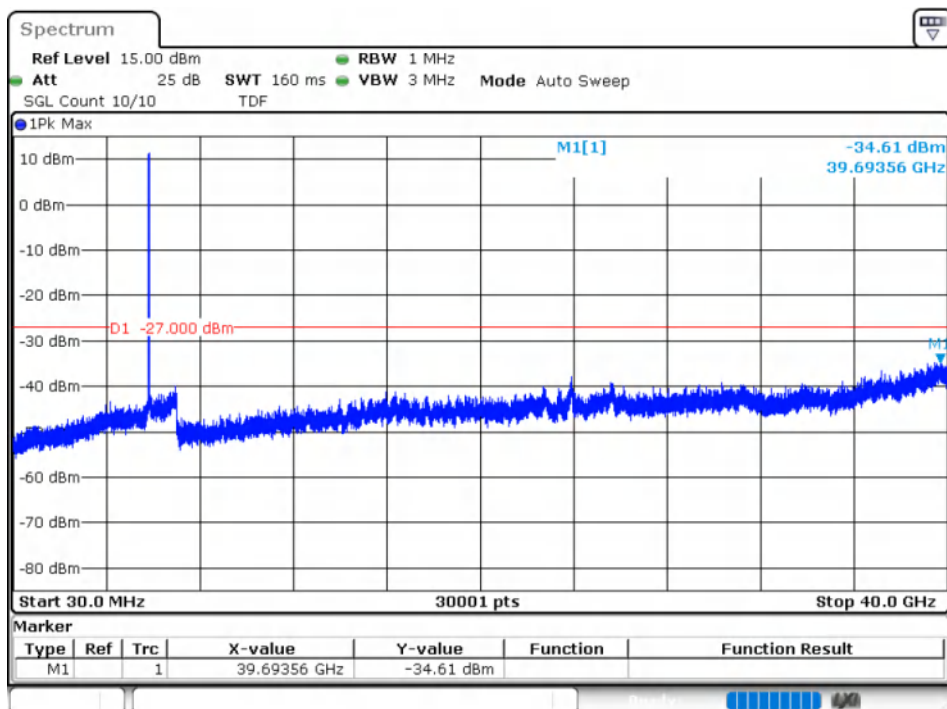
Tx. Spurious NVNT n20 5745MHz Ant2 Emission



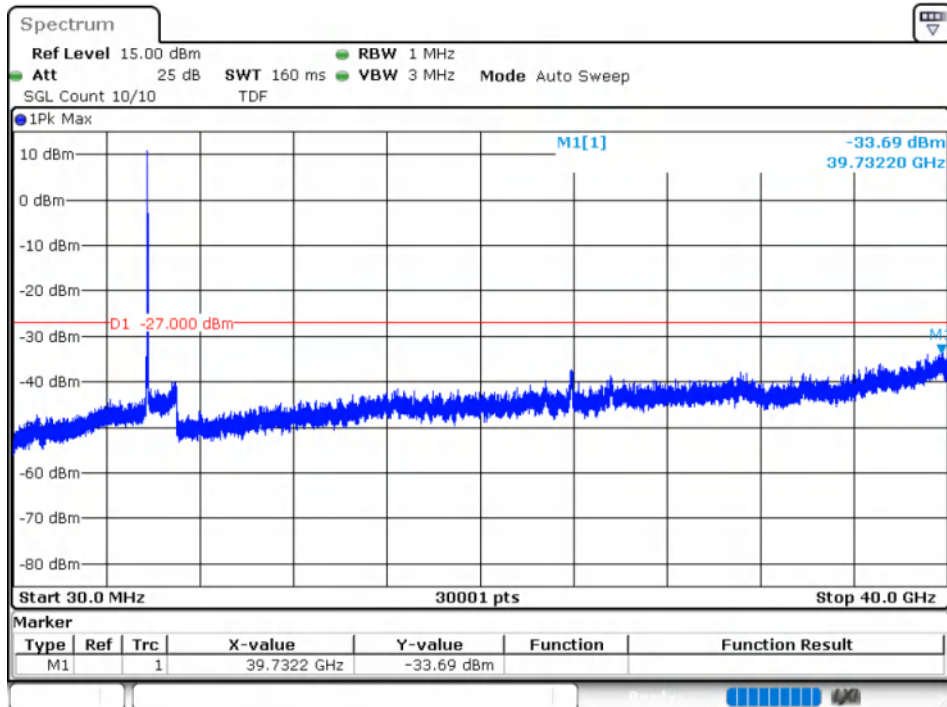
Tx. Spurious NVNT n20 5785MHz Ant2 Emission



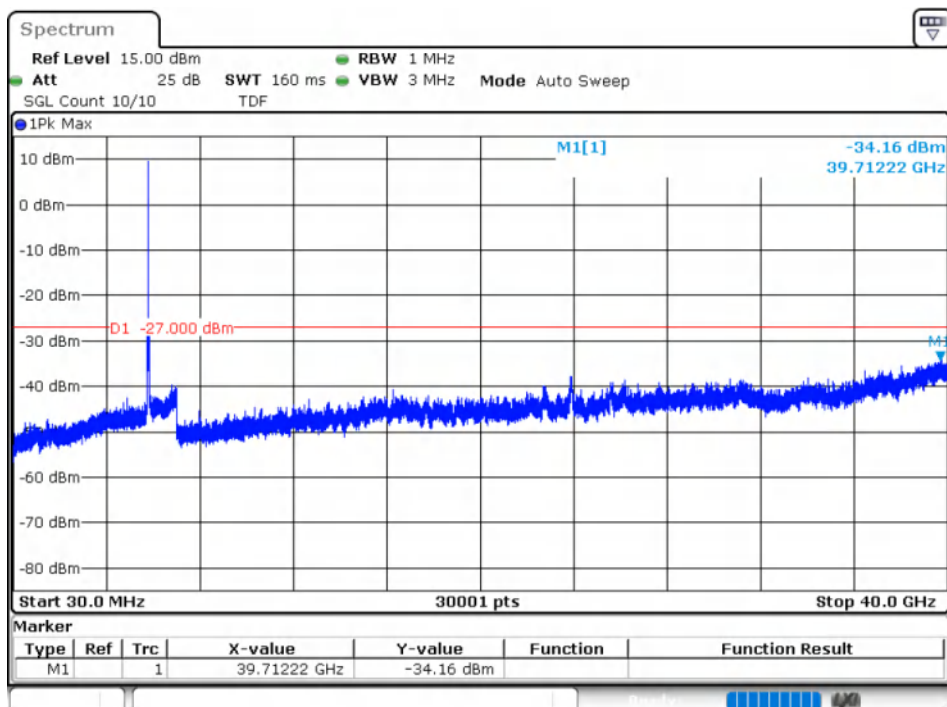
Tx. Spurious NVNT n20 5825MHz Ant2 Emission



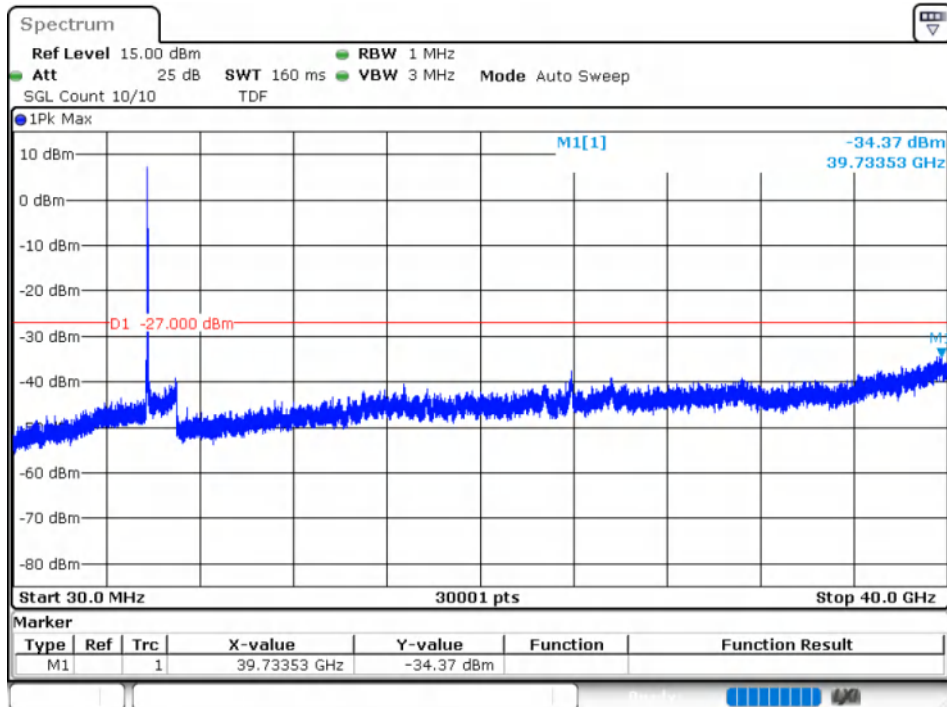
Tx. Spurious NVNT n40 5755MHz Ant1 Emission



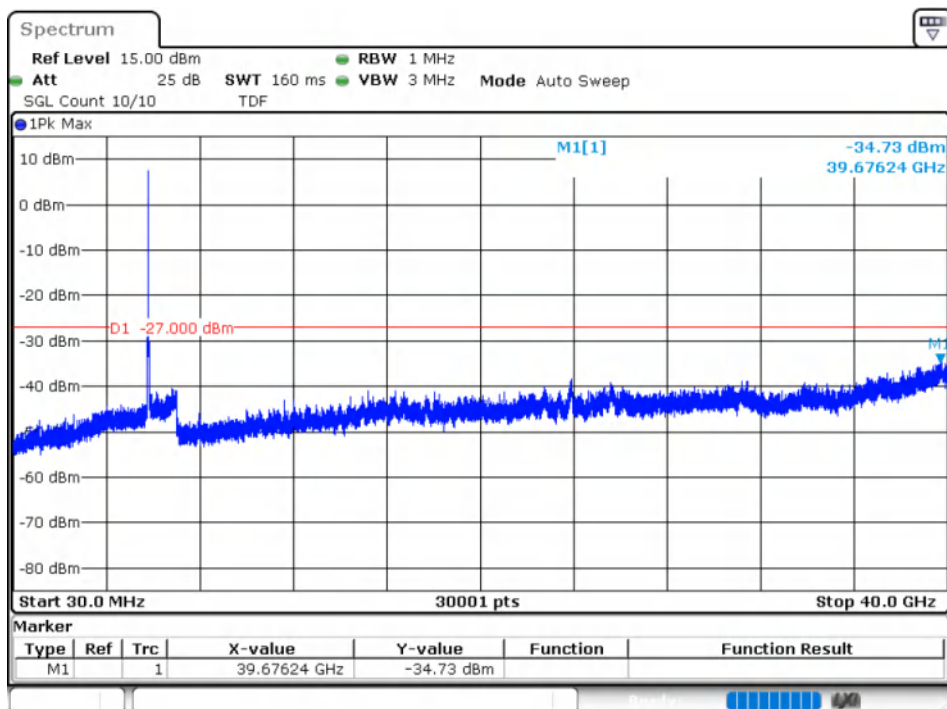
Tx. Spurious NVNT n40 5795MHz Ant1 Emission



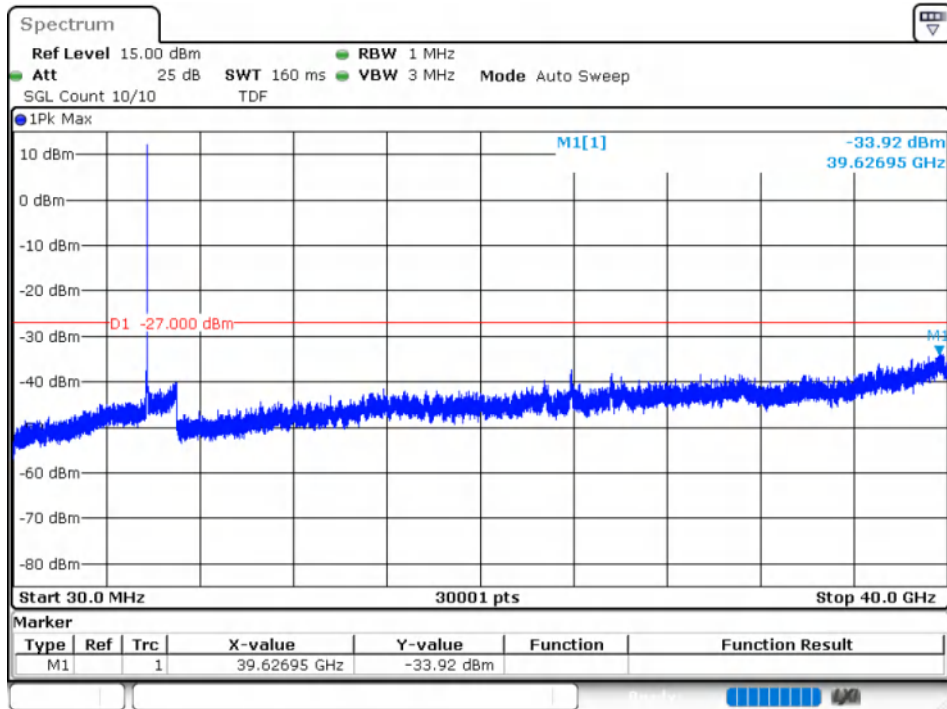
Tx. Spurious NVNT n40 5755MHz Ant2 Emission



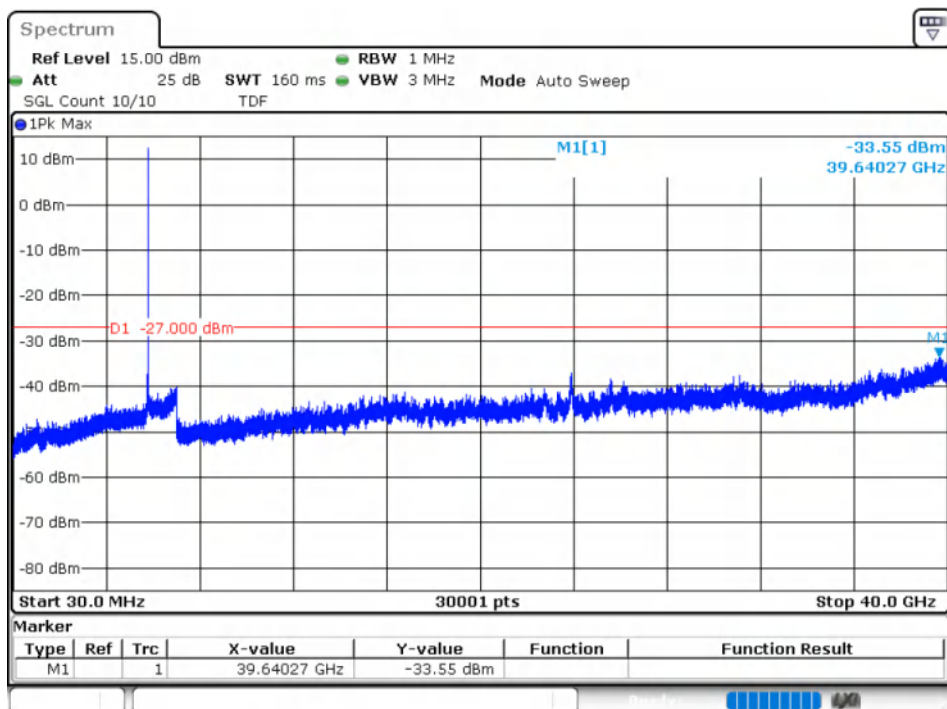
Tx. Spurious NVNT n40 5795MHz Ant2 Emission



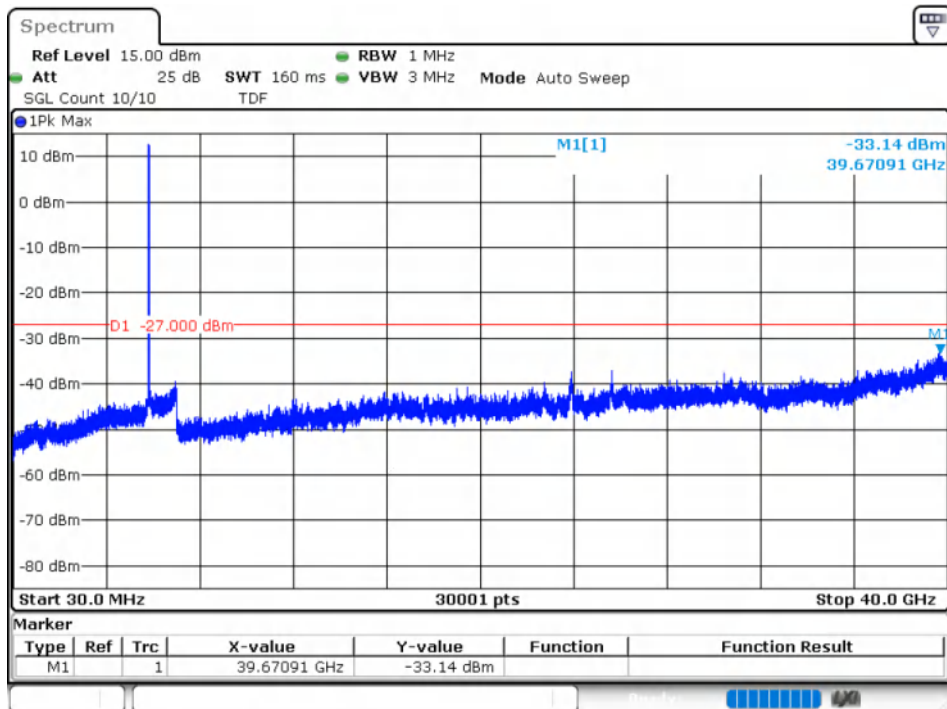
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



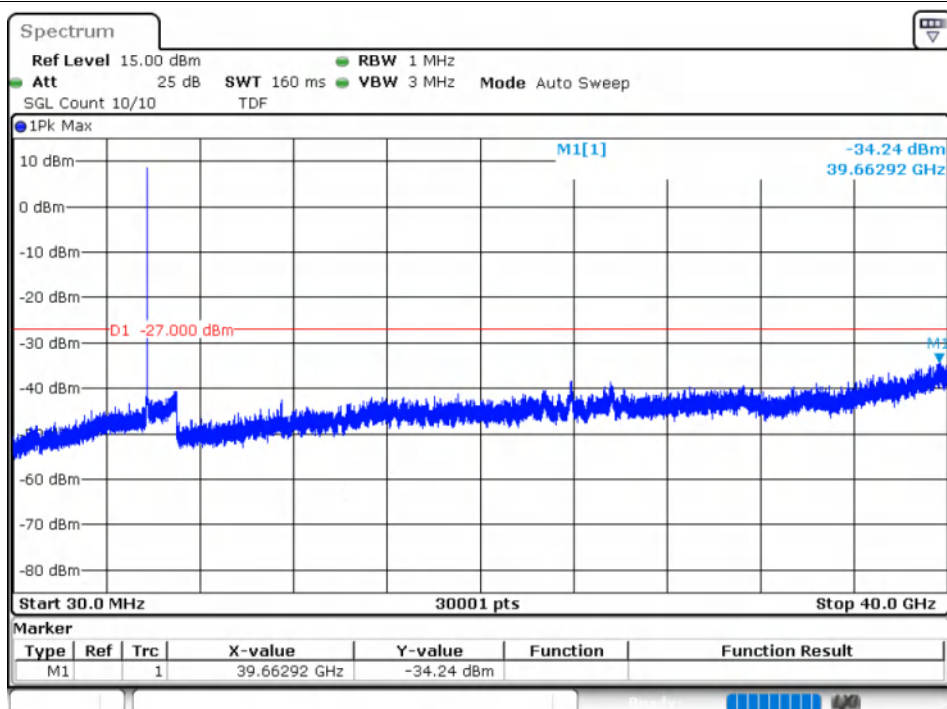
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



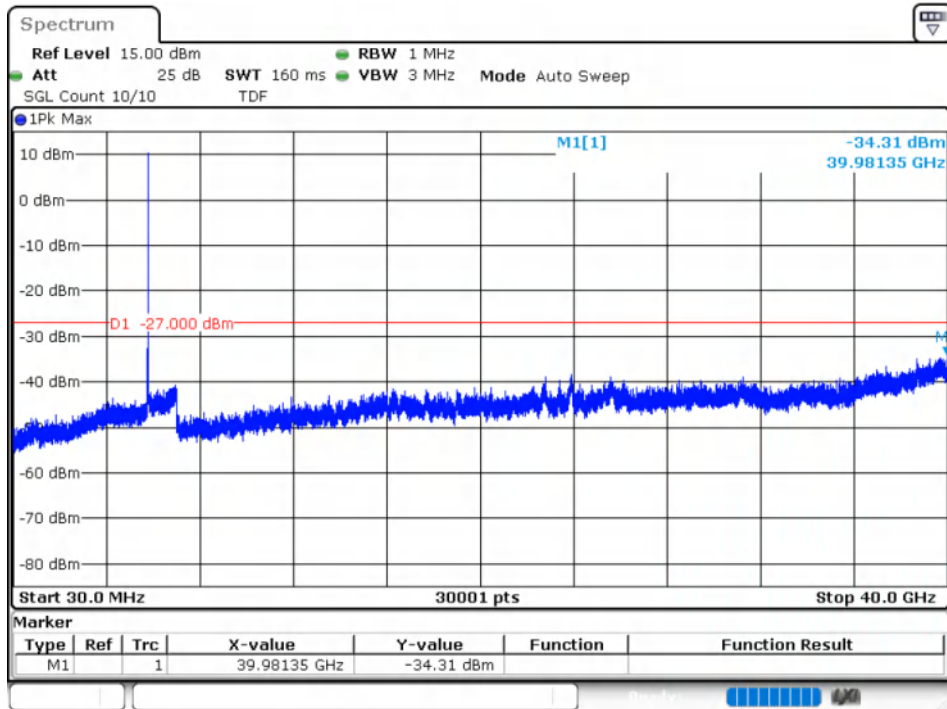
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



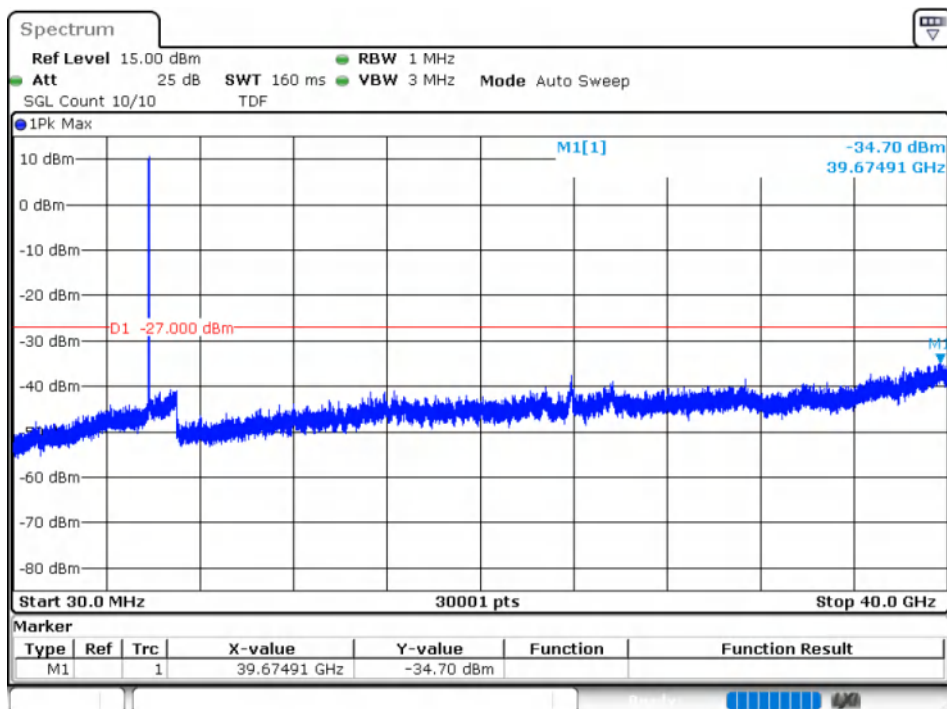
Tx. Spurious NVNT ac20 5745MHz Ant2 Emission



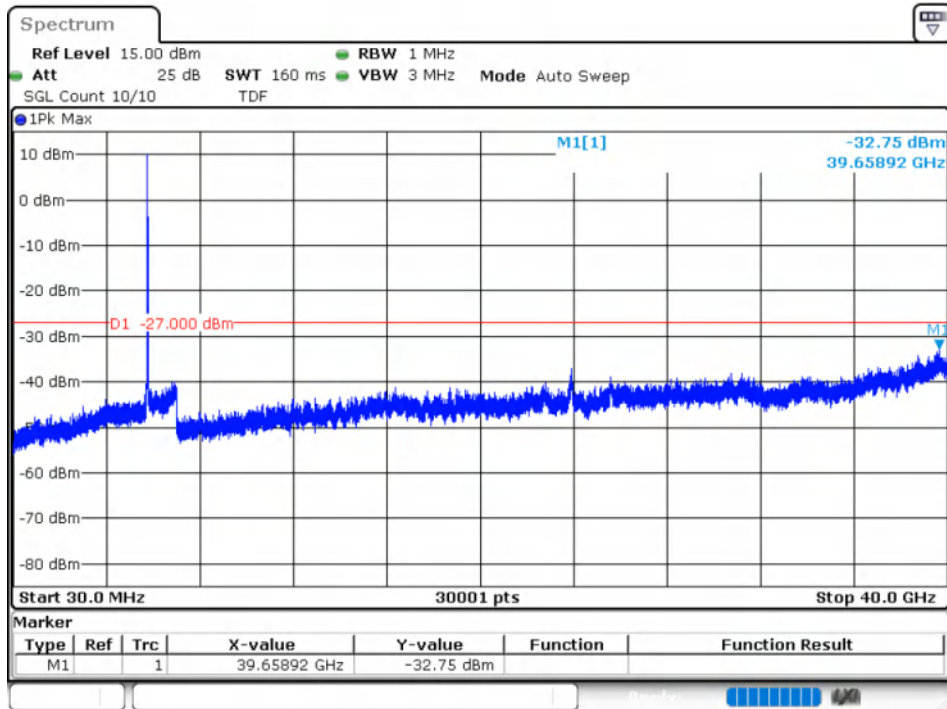
Tx. Spurious NVNT ac20 5785MHz Ant2 Emission



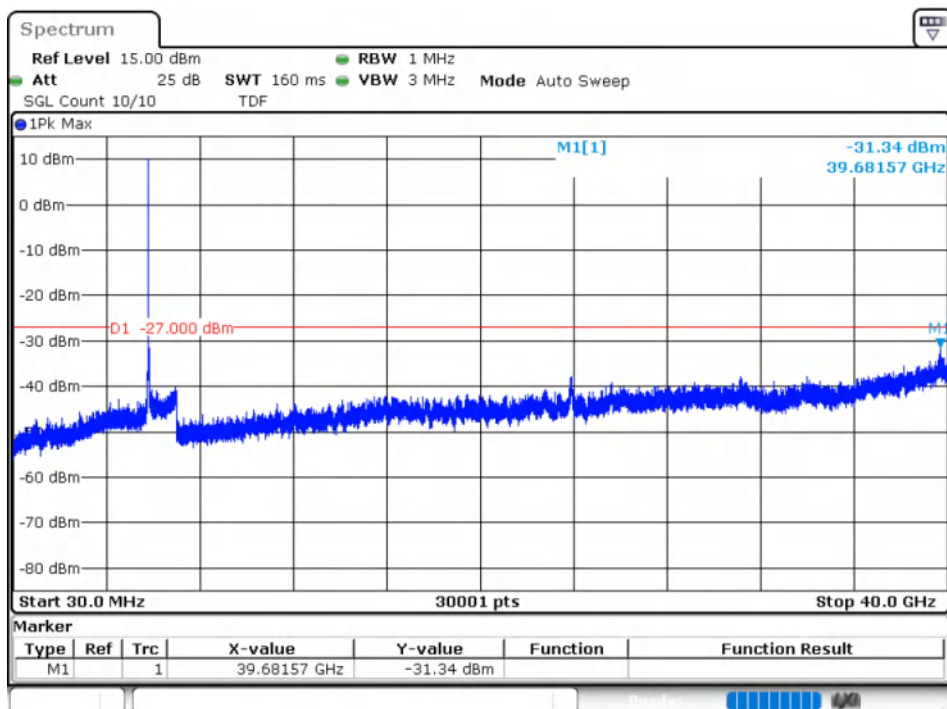
Tx. Spurious NVNT ac20 5825MHz Ant2 Emission



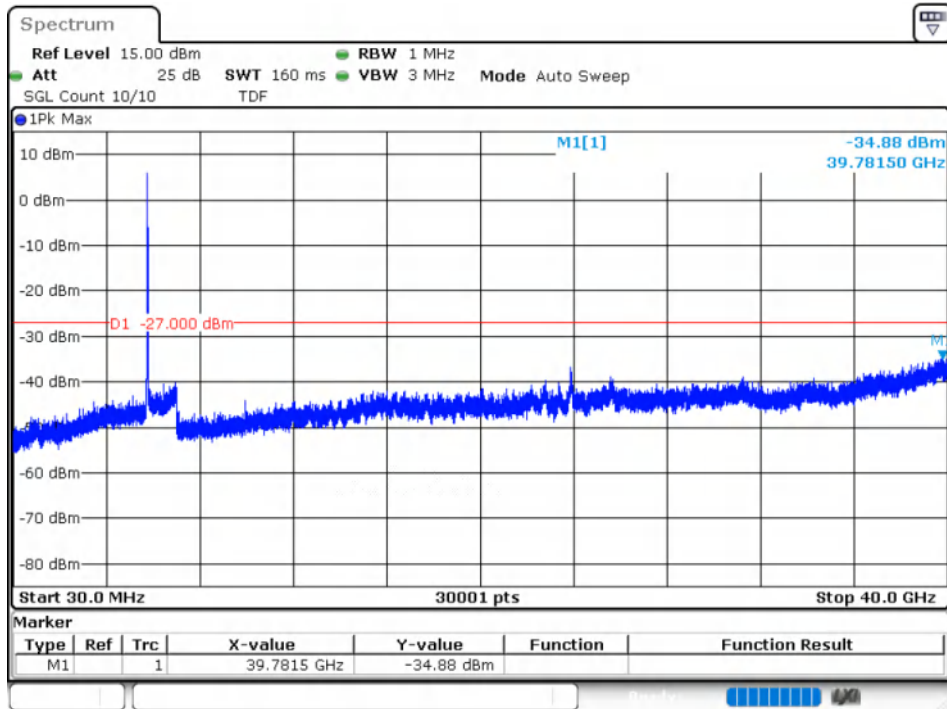
Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



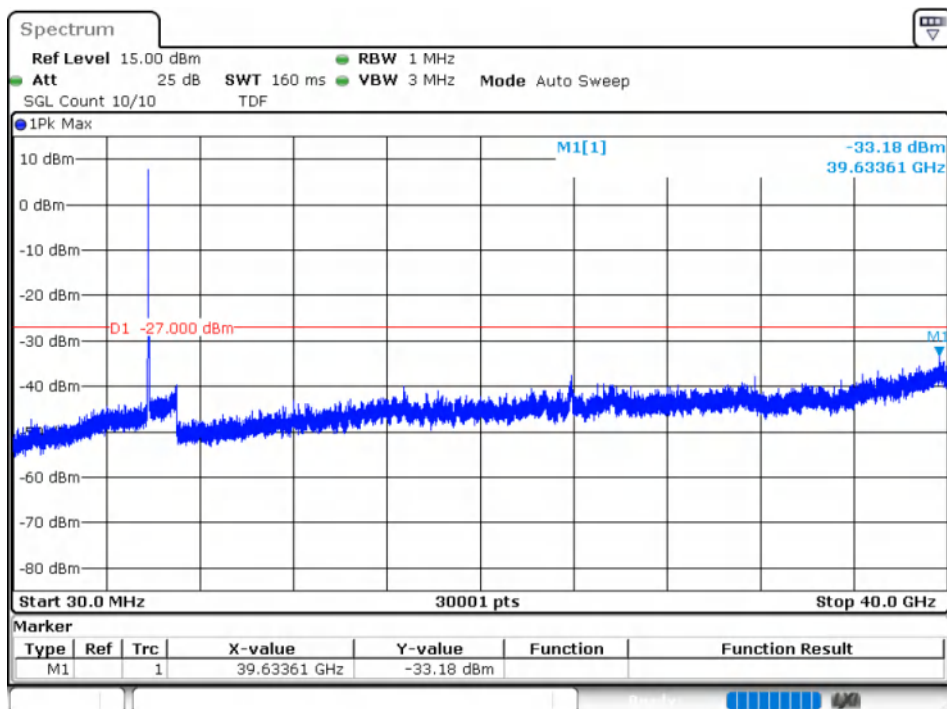
Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



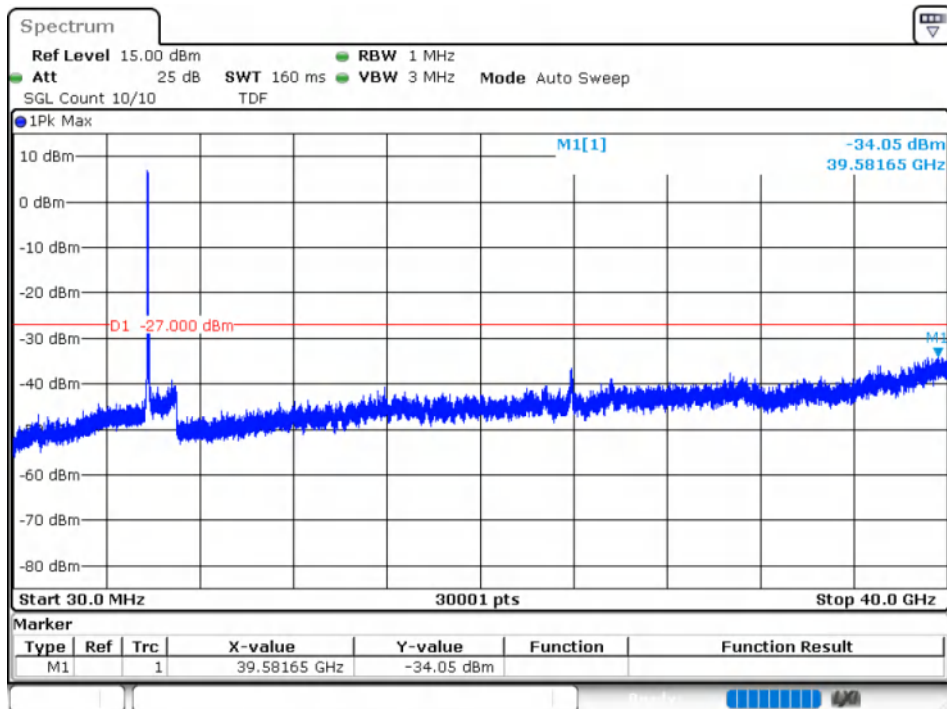
Tx. Spurious NVNT ac40 5755MHz Ant2 Emission



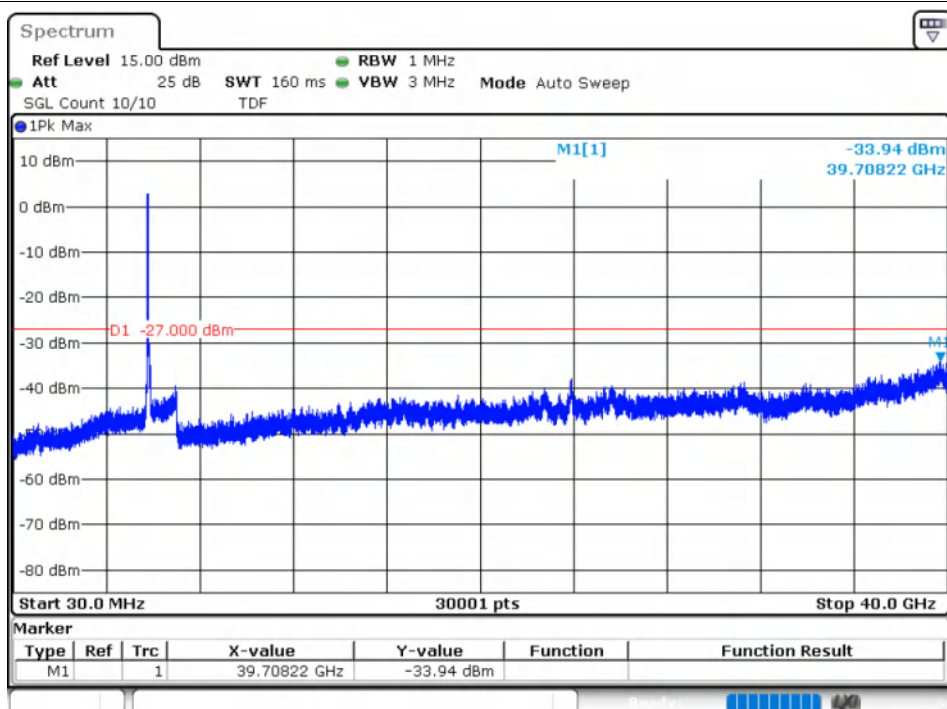
Tx. Spurious NVNT ac40 5795MHz Ant2 Emission



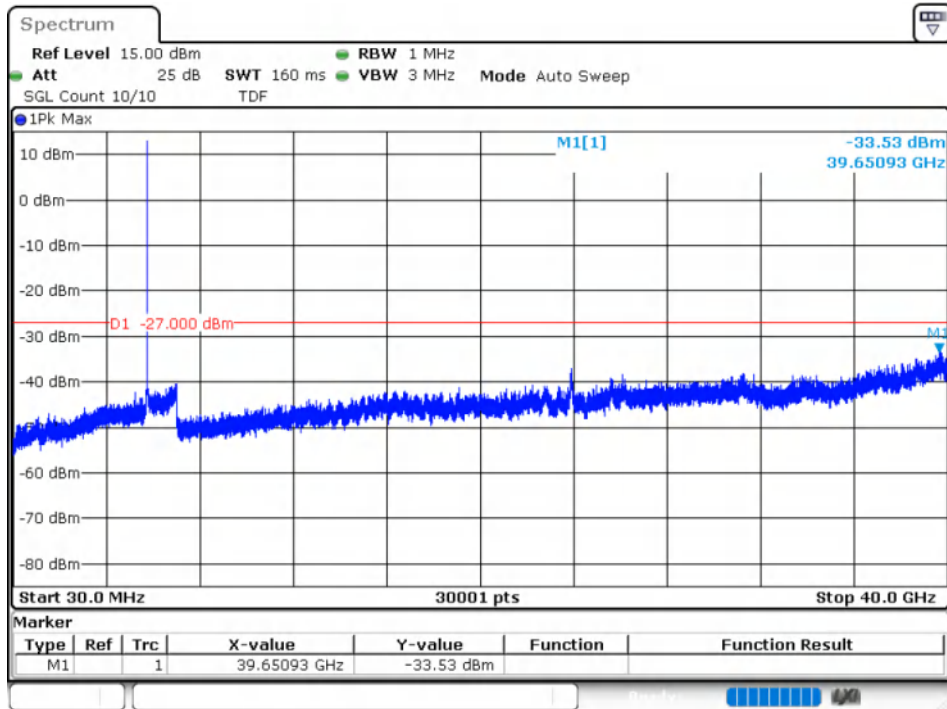
Tx. Spurious NVNT ac80 5775MHz Ant1 Emission



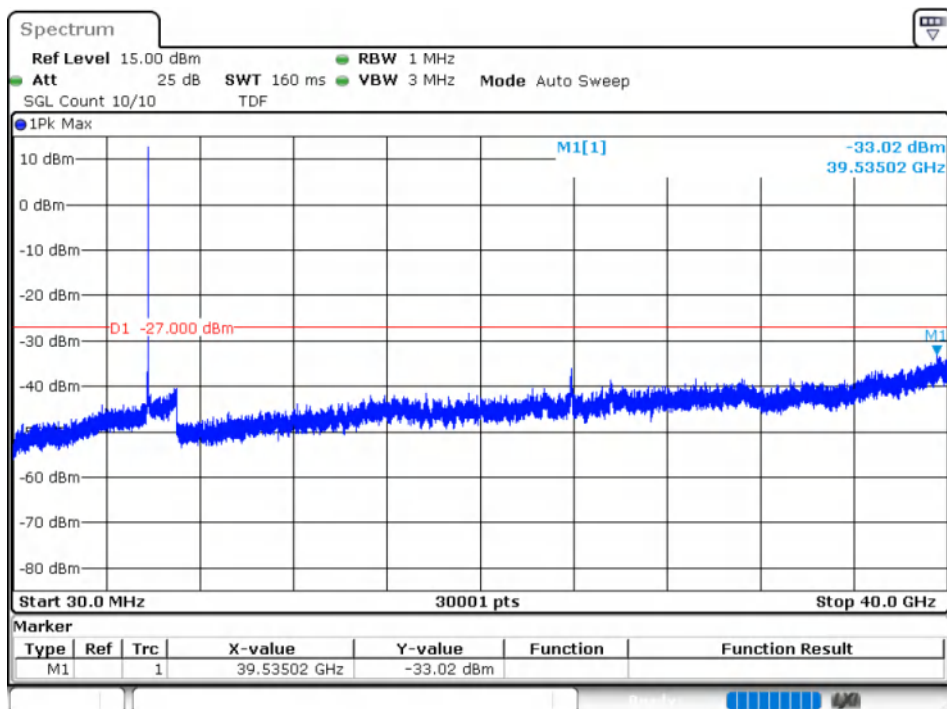
Tx. Spurious NVNT ac80 5775MHz Ant2 Emission



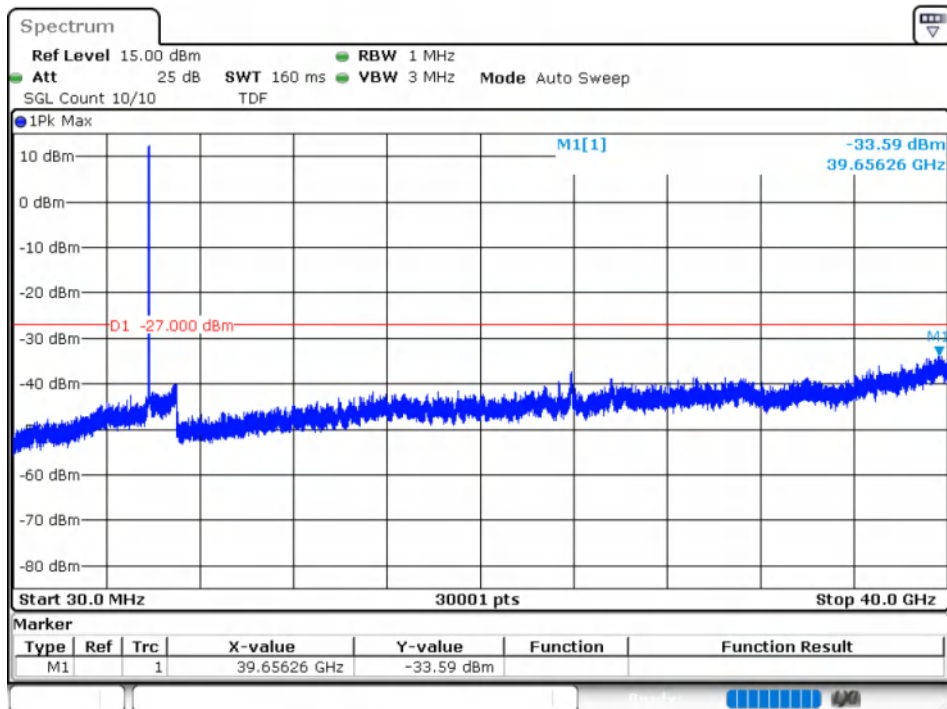
Tx. Spurious NVNT ax20 5745MHz Ant1 Emission



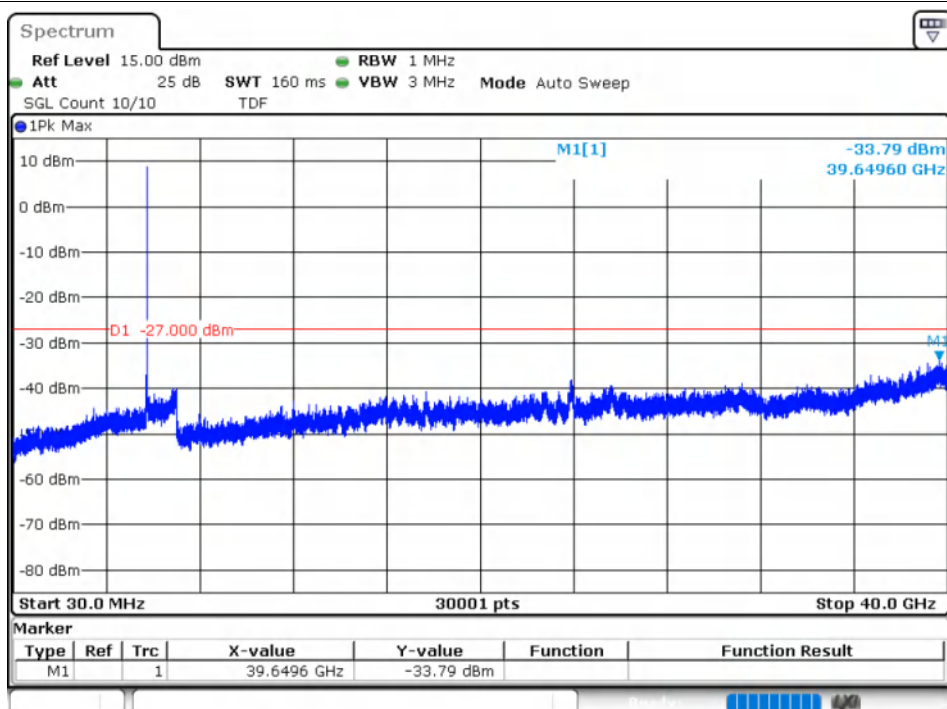
Tx. Spurious NVNT ax20 5785MHz Ant1 Emission



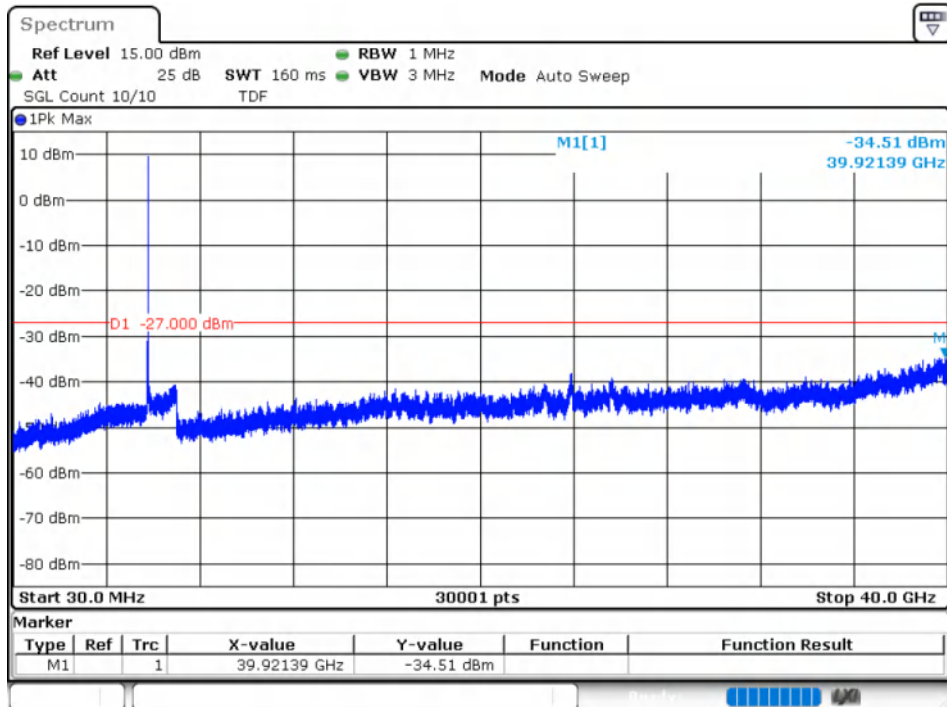
Tx. Spurious NVNT ax20 5825MHz Ant1 Emission



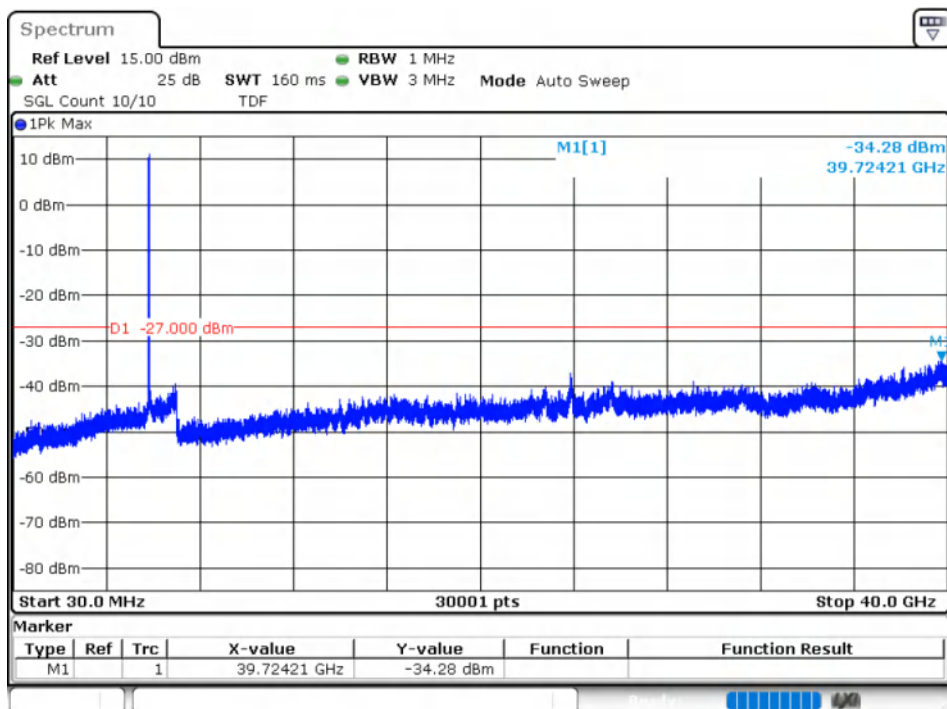
Tx. Spurious NVNT ax20 5745MHz Ant2 Emission



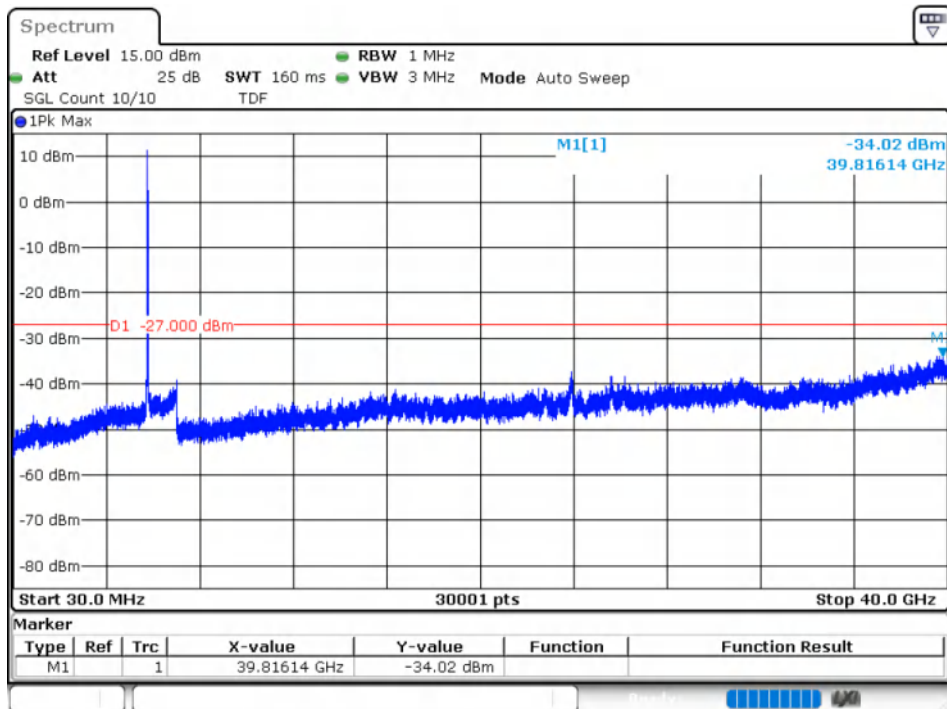
Tx. Spurious NVNT ax20 5785MHz Ant2 Emission



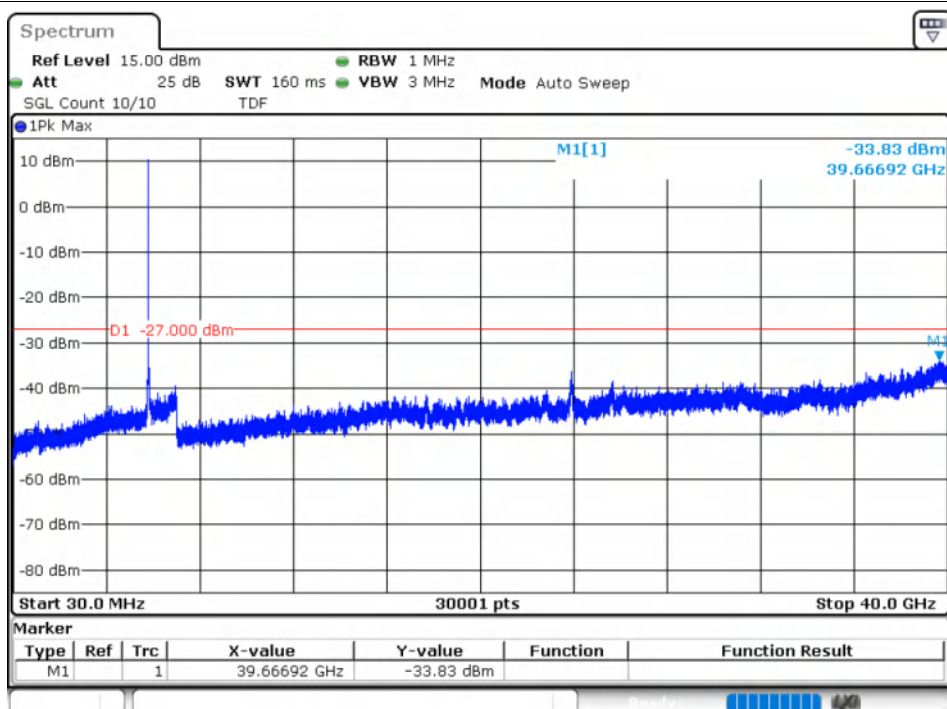
Tx. Spurious NVNT ax20 5825MHz Ant2 Emission



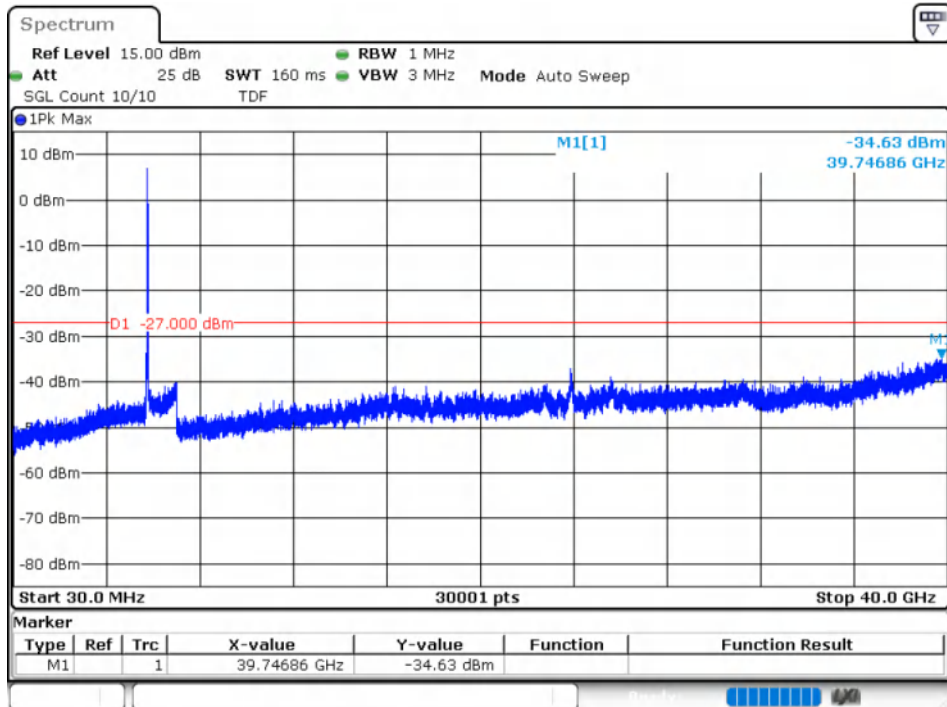
Tx. Spurious NVNT ax40 5755MHz Ant1 Emission



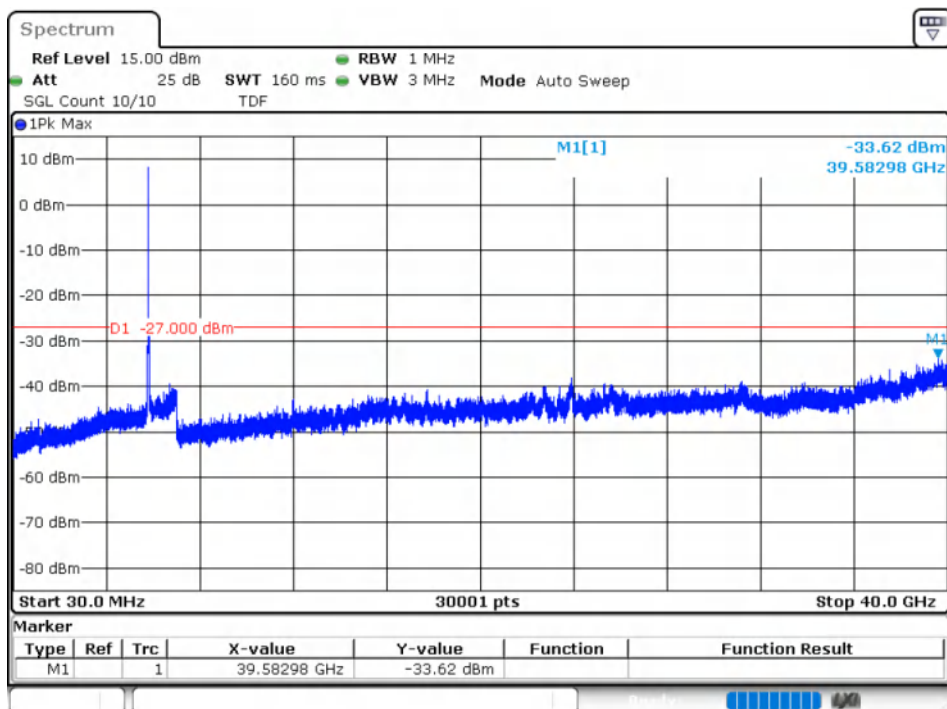
Tx. Spurious NVNT ax40 5795MHz Ant1 Emission



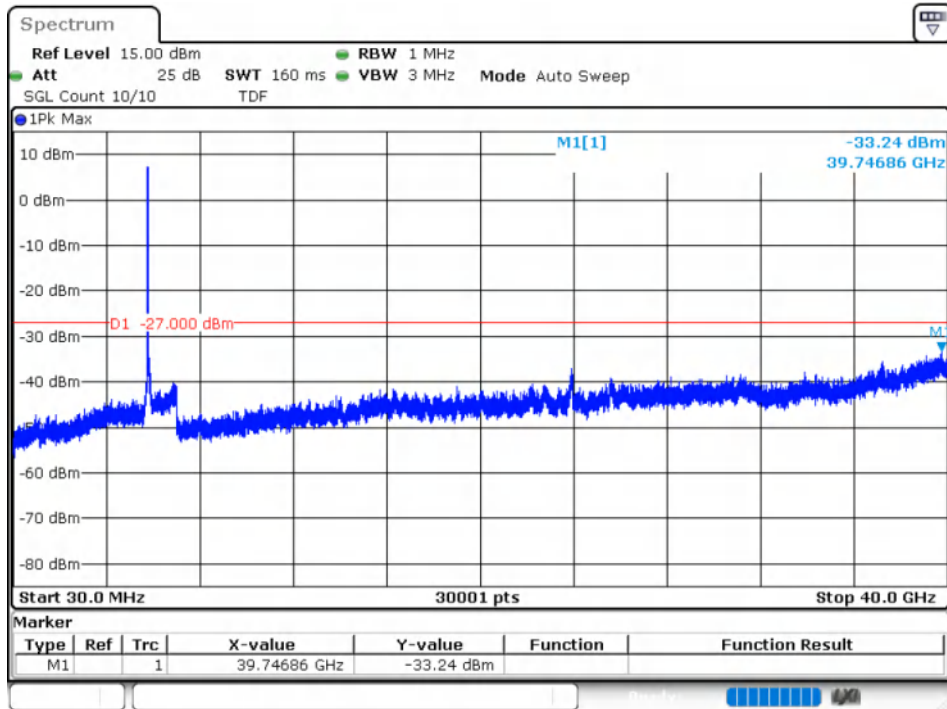
Tx. Spurious NVNT ax40 5755MHz Ant2 Emission



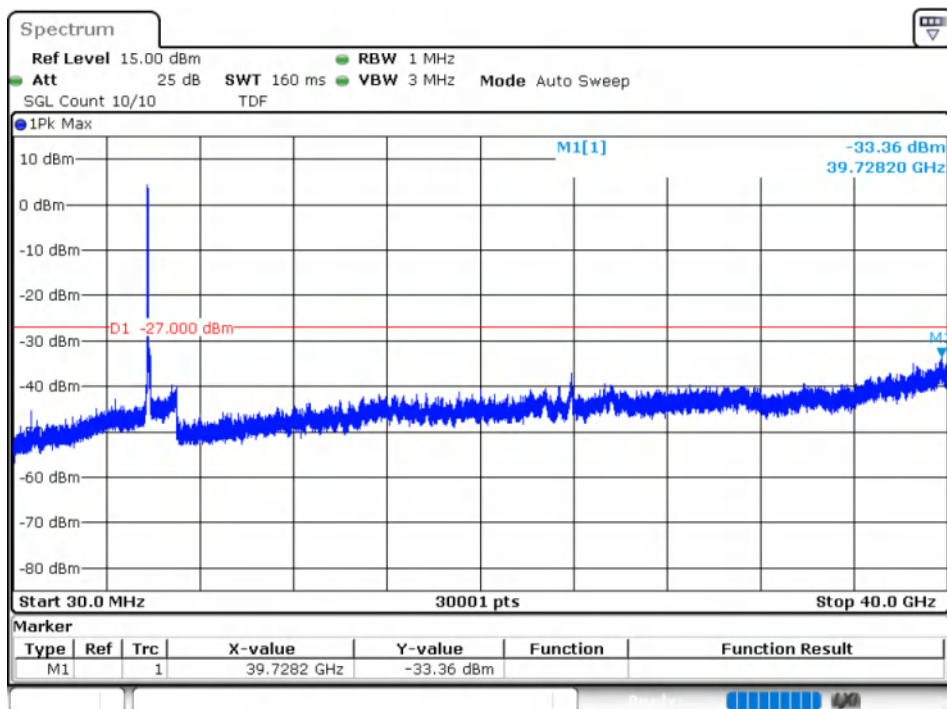
Tx. Spurious NVNT ax40 5795MHz Ant2 Emission



Tx. Spurious NVNT ax80 5775MHz Ant1 Emission



Tx. Spurious NVNT ax80 5775MHz Ant2 Emission



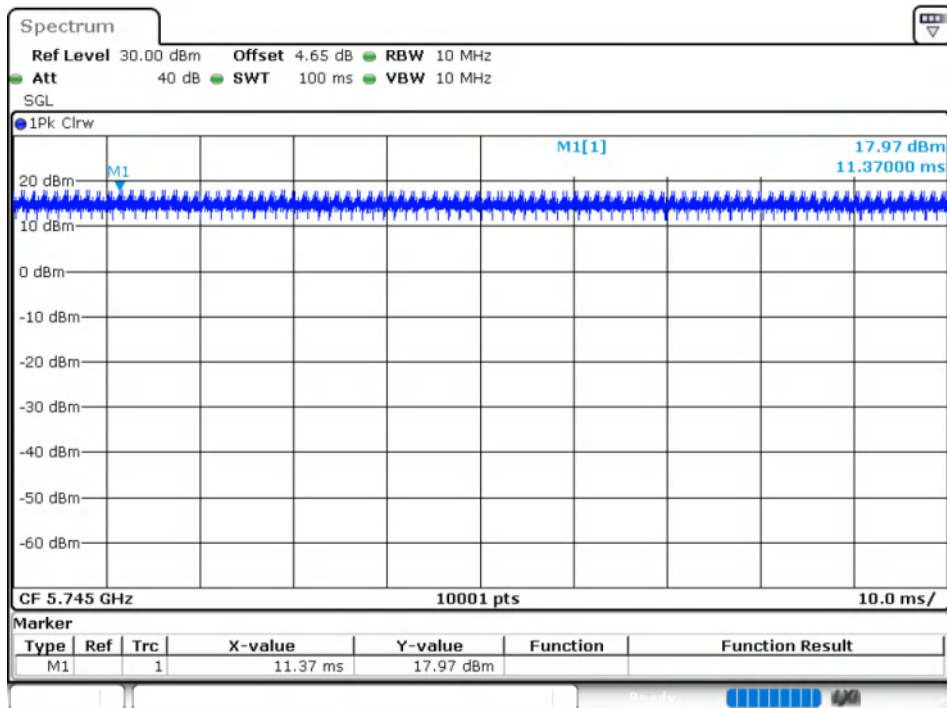
WIFI 5.8G MIMO Test Data

Duty Cycle

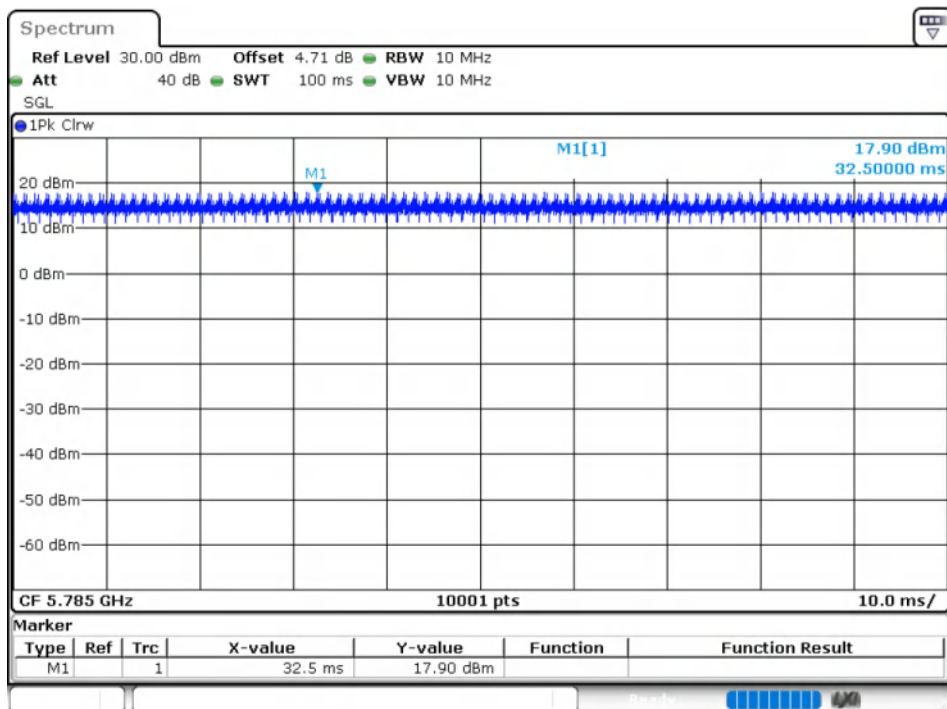
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac20	5745	ANT 1	100	0	/
NVNT	ac20	5785	ANT 1	100	0	/
NVNT	ac20	5825	ANT 1	100	0	/
NVNT	ac40	5755	ANT 1	100	0	/
NVNT	ac40	5795	ANT 1	100	0	/
NVNT	ac80	5775	ANT 1	100	0	/
NVNT	ax20	5745	ANT 1	100	0	/
NVNT	ax20	5785	ANT 1	100	0	/
NVNT	ax20	5825	ANT 1	100	0	/
NVNT	ax40	5755	ANT 1	100	0	/
NVNT	ax40	5795	ANT 1	100	0	/
NVNT	ax80	5775	ANT 1	100	0	/
NVNT	n20	5745	ANT 1	100	0	/
NVNT	n20	5785	ANT 1	100	0	/
NVNT	n20	5825	ANT 1	100	0	/
NVNT	n40	5755	ANT 1	100	0	/
NVNT	n40	5795	ANT 1	100	0	/

Test Graphs

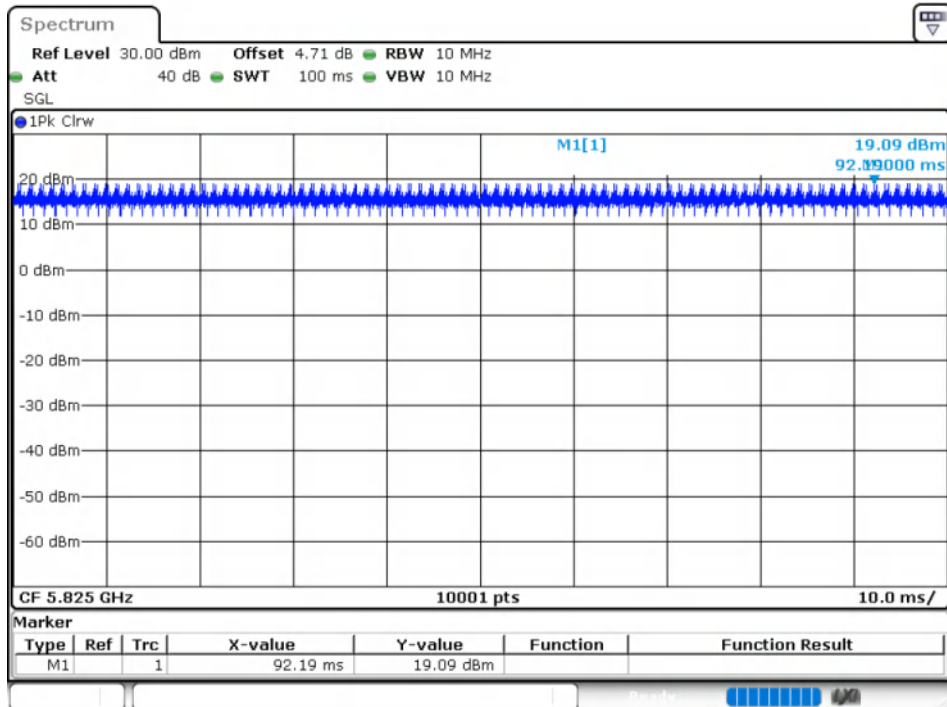
Duty Cycle NVNT ac20 5745MHz ANT 1



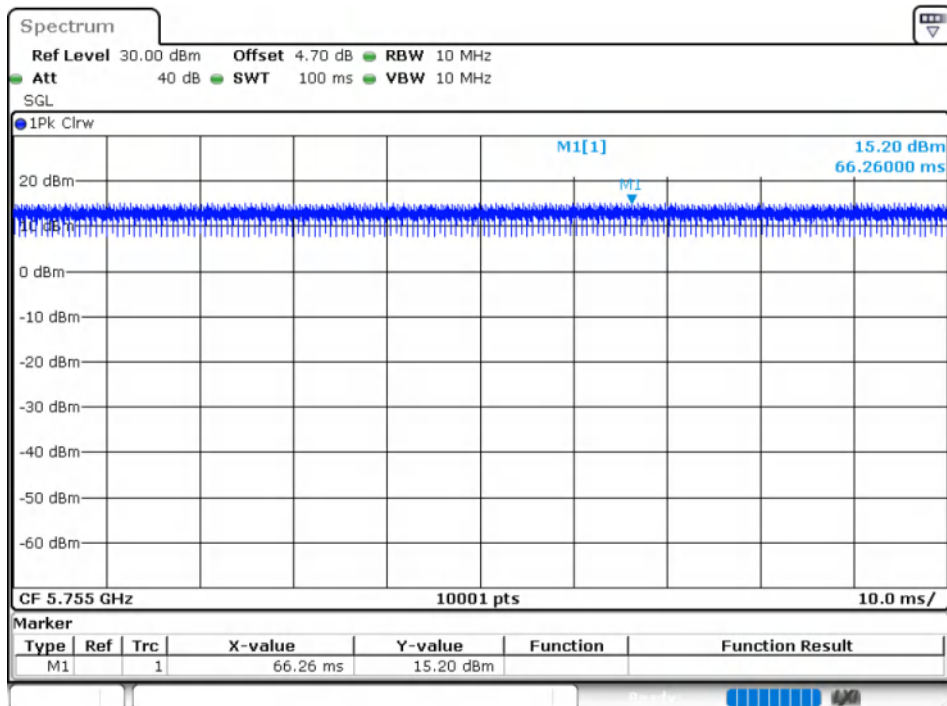
Duty Cycle NVNT ac20 5785MHz ANT 1



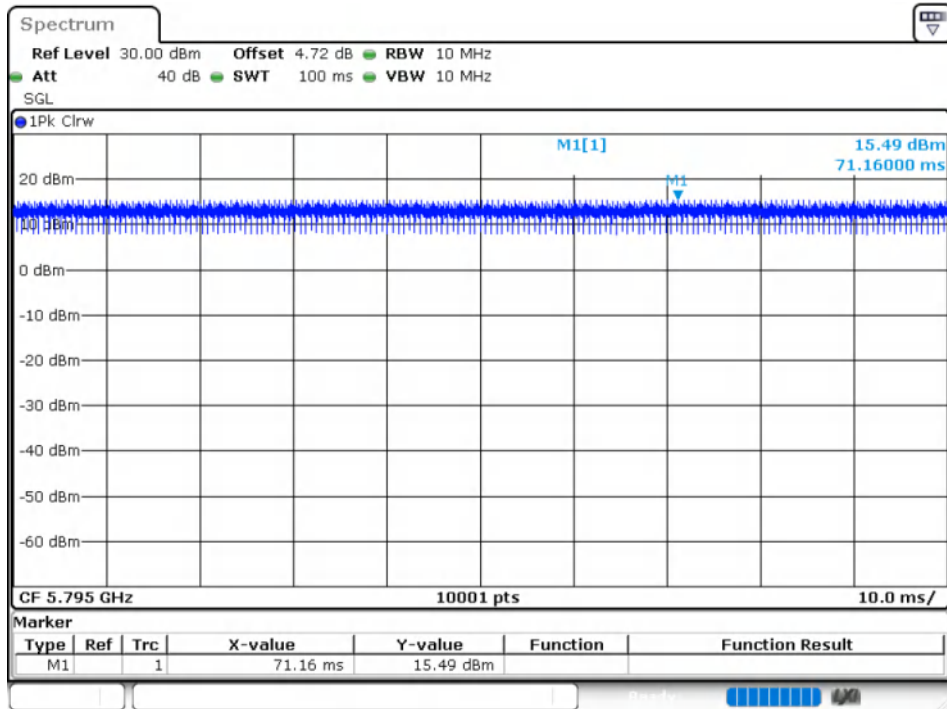
Duty Cycle NVNT ac20 5825MHz ANT 1



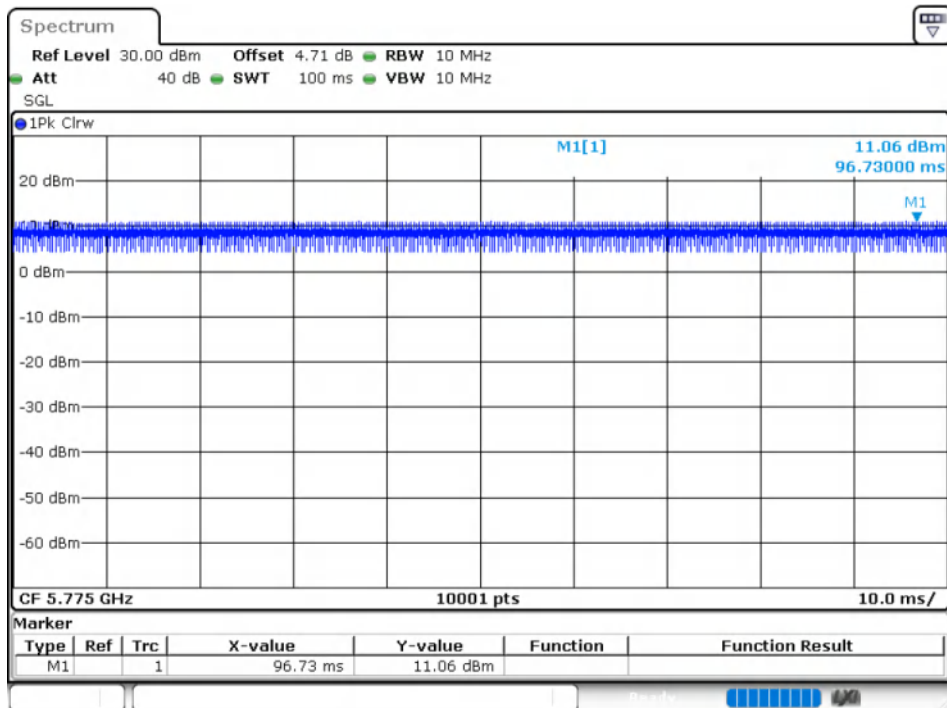
Duty Cycle NVNT ac40 5755MHz ANT 1



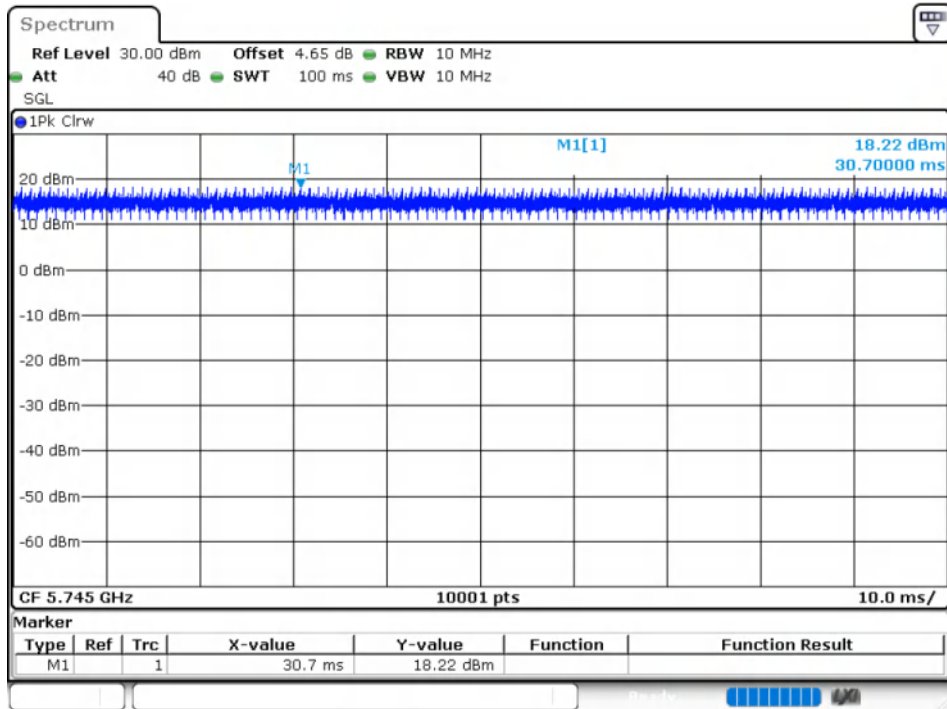
Duty Cycle NVNT ac40 5795MHz ANT 1



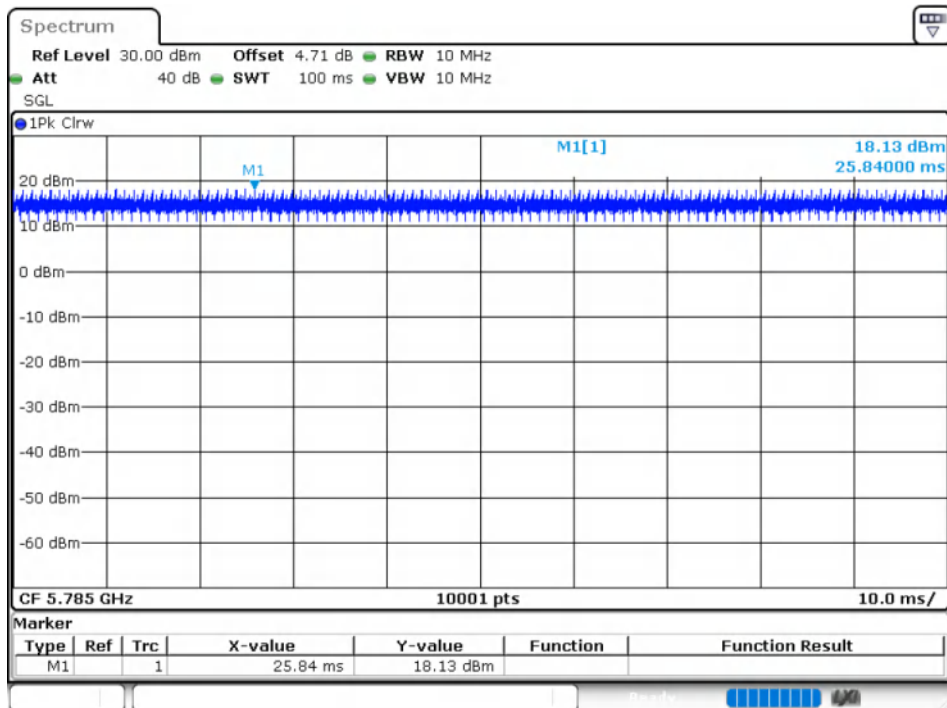
Duty Cycle NVNT ac80 5775MHz ANT 1



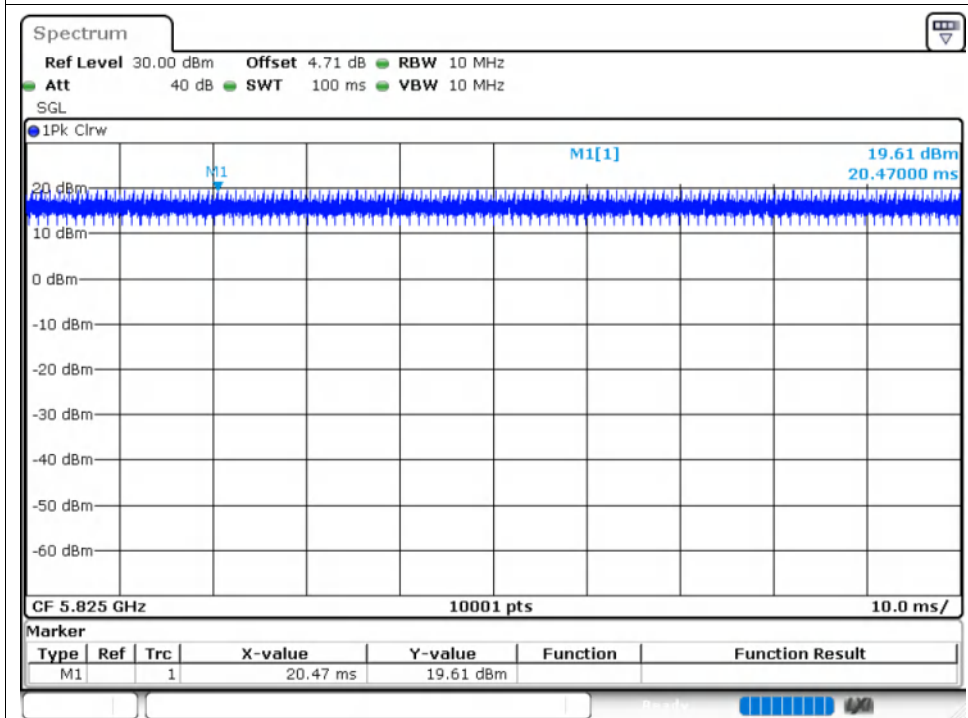
Duty Cycle NVNT ax20 5745MHz ANT 1



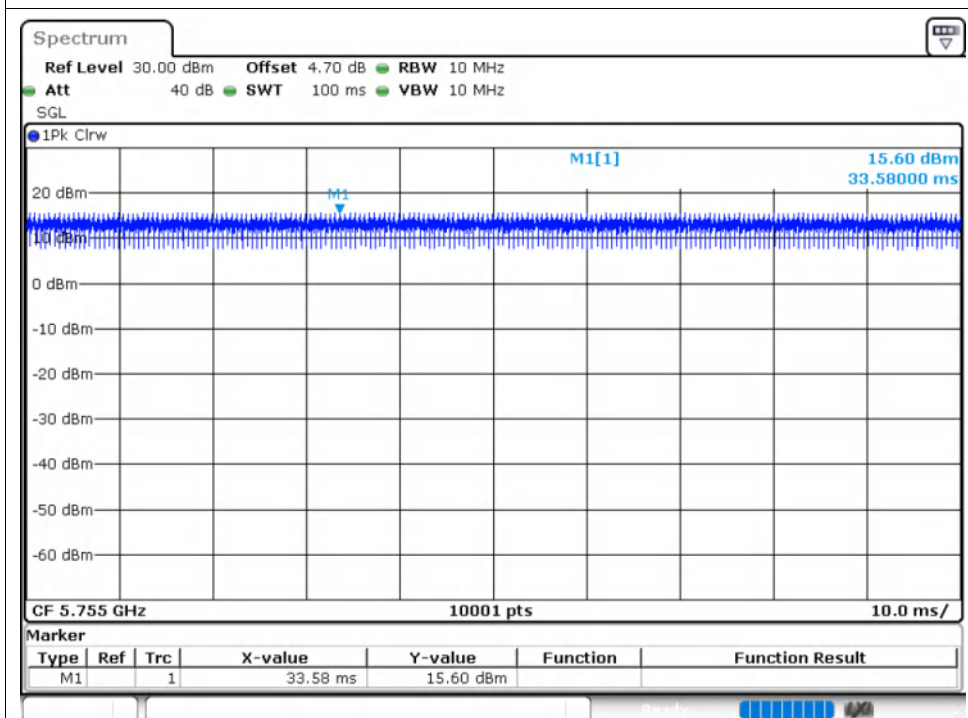
Duty Cycle NVNT ax20 5785MHz ANT 1



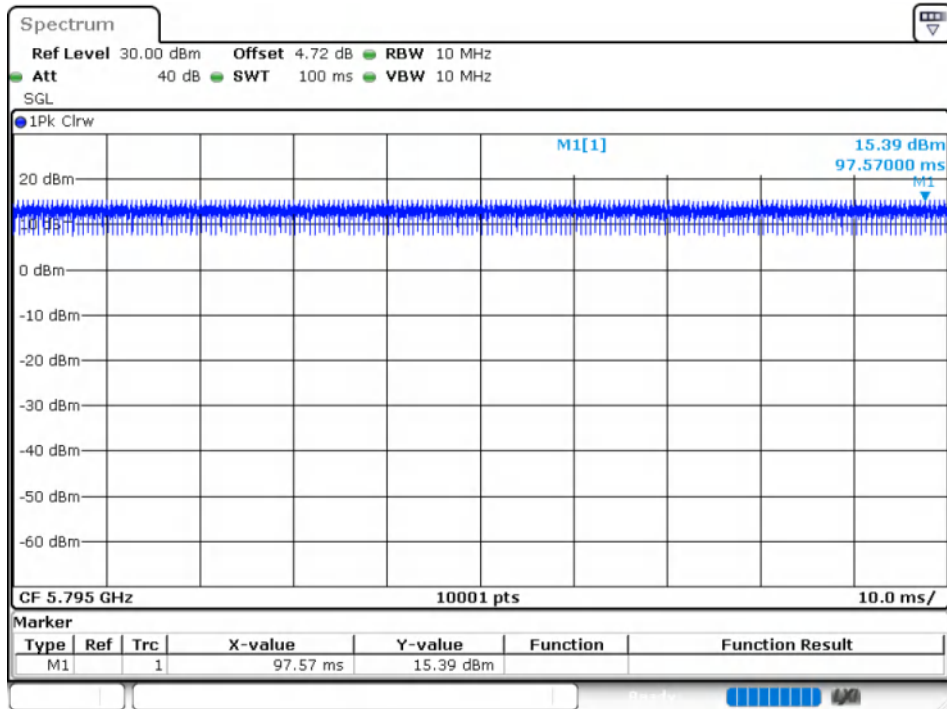
Duty Cycle NVNT ax20 5825MHz ANT 1



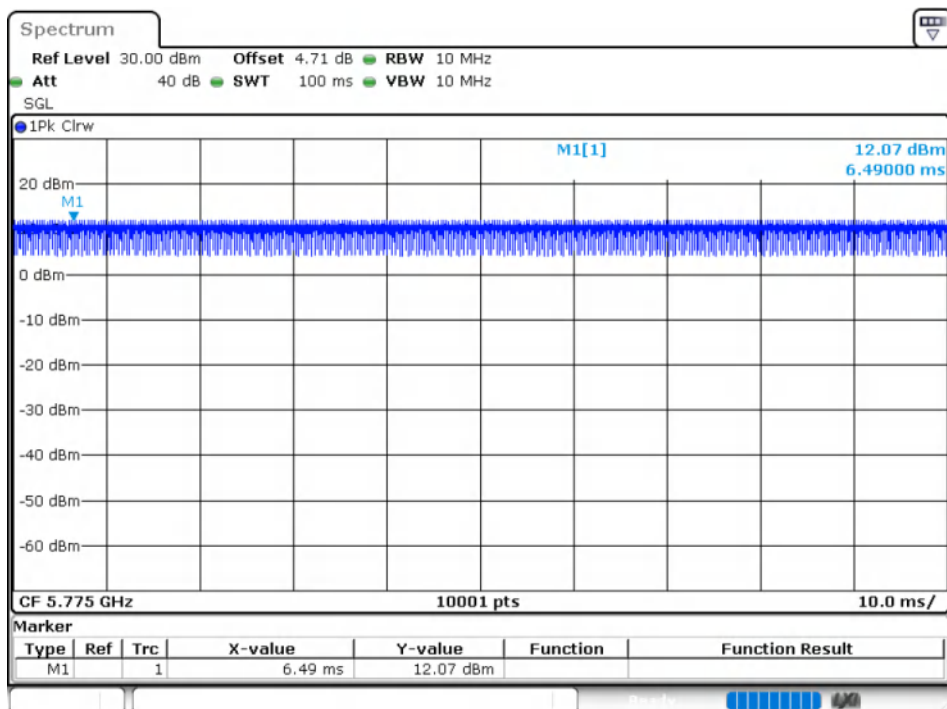
Duty Cycle NVNT ax40 5755MHz ANT 1



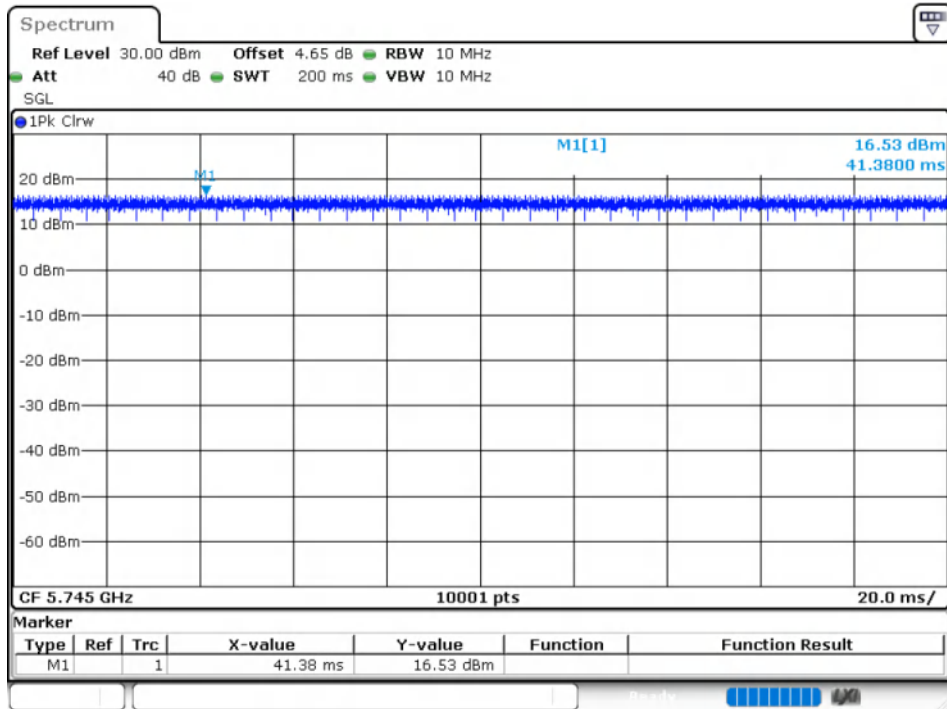
Duty Cycle NVNT ax40 5795MHz ANT 1



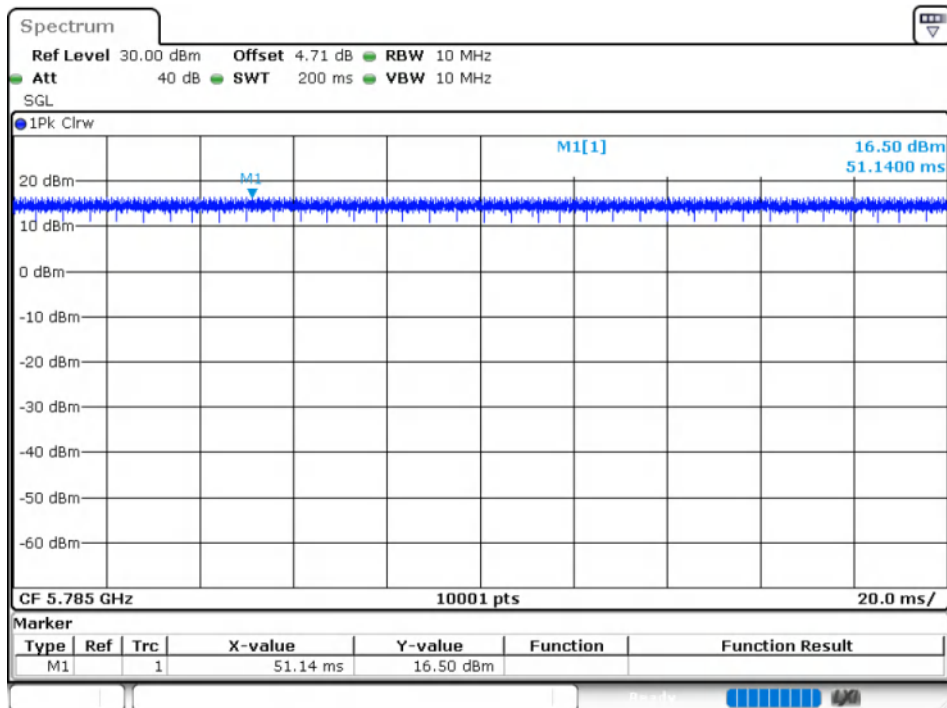
Duty Cycle NVNT ax80 5775MHz ANT 1



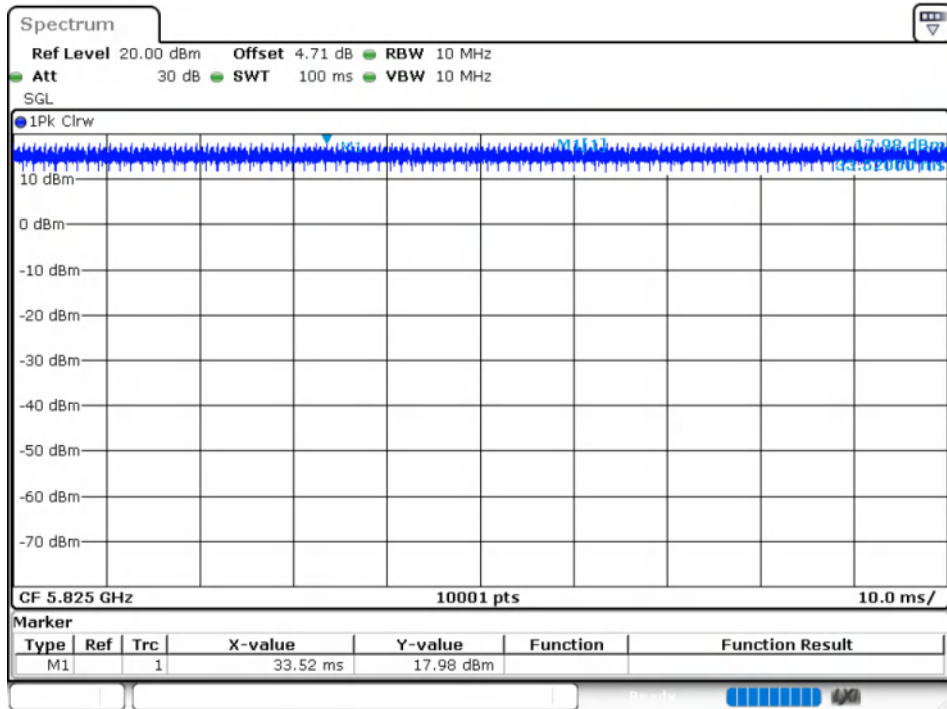
Duty Cycle NVNT n20 5745MHz ANT 1



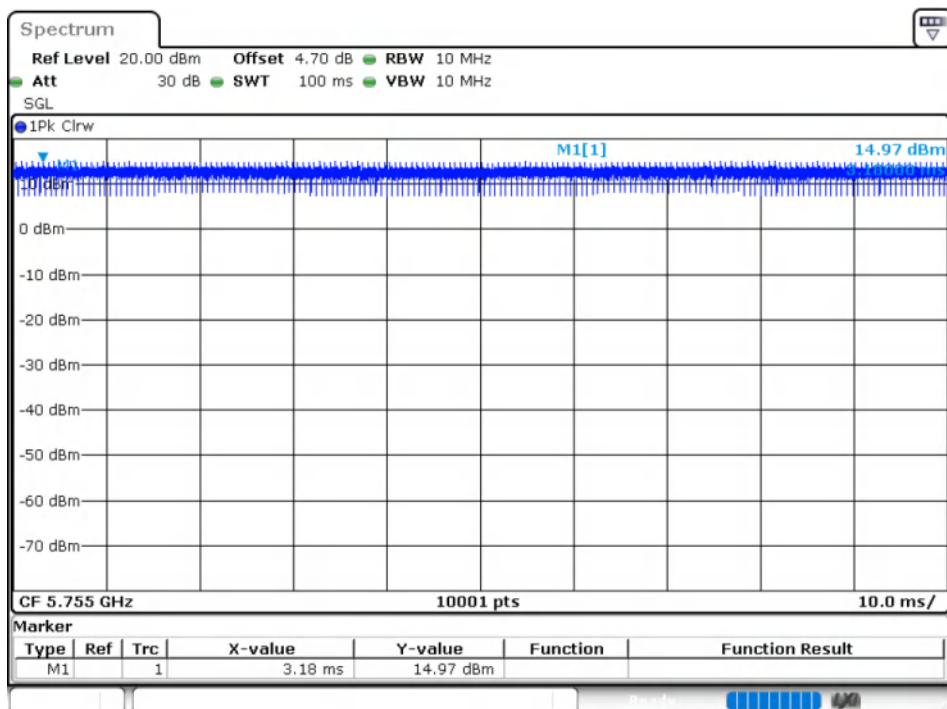
Duty Cycle NVNT n20 5785MHz ANT 1

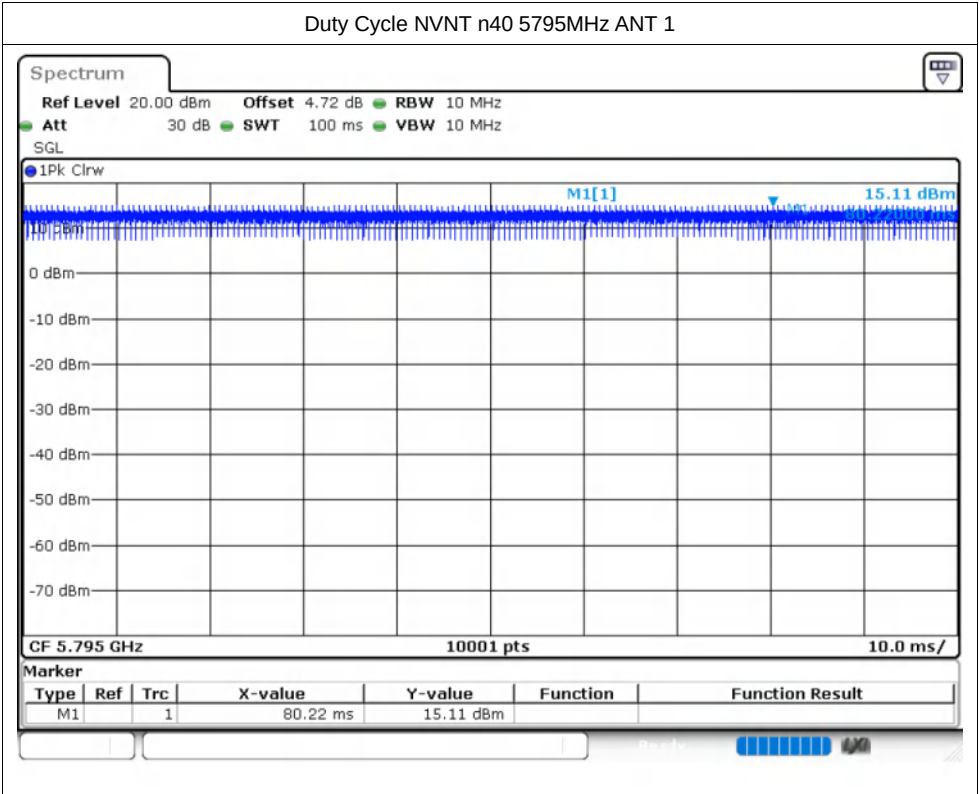


Duty Cycle NVNT n20 5825MHz ANT 1



Duty Cycle NVNT n40 5755MHz ANT 1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5745	Ant1	10.14	30	Pass
NVNT	ac20	5745	Ant2	11.04	30	Pass
NVNT	ac20	5745	Sum	13.62	30	Pass
NVNT	ac20	5785	Ant1	10.49	30	Pass
NVNT	ac20	5785	Ant2	11.17	30	Pass
NVNT	ac20	5785	Sum	13.85	30	Pass
NVNT	ac20	5825	Ant1	11.03	30	Pass
NVNT	ac20	5825	Ant2	11.46	30	Pass
NVNT	ac20	5825	Sum	14.26	30	Pass
NVNT	ac40	5755	Ant1	10.43	30	Pass
NVNT	ac40	5755	Ant2	11.64	30	Pass
NVNT	ac40	5755	Sum	14.09	30	Pass
NVNT	ac40	5795	Ant1	10.79	30	Pass
NVNT	ac40	5795	Ant2	11.83	30	Pass
NVNT	ac40	5795	Sum	14.35	30	Pass
NVNT	ac80	5775	Ant1	10.5	30	Pass
NVNT	ac80	5775	Ant2	11.45	30	Pass
NVNT	ac80	5775	Sum	14.01	30	Pass
NVNT	ax20	5745	Ant1	9.78	30	Pass
NVNT	ax20	5745	Ant2	11.19	30	Pass
NVNT	ax20	5745	Sum	13.55	30	Pass
NVNT	ax20	5785	Ant1	10.42	30	Pass
NVNT	ax20	5785	Ant2	11.24	30	Pass
NVNT	ax20	5785	Sum	13.86	30	Pass
NVNT	ax20	5825	Ant1	11.08	30	Pass
NVNT	ax20	5825	Ant2	11.52	30	Pass
NVNT	ax20	5825	Sum	14.32	30	Pass
NVNT	ax40	5755	Ant1	10.36	30	Pass
NVNT	ax40	5755	Ant2	11.61	30	Pass
NVNT	ax40	5755	Sum	14.04	30	Pass
NVNT	ax40	5795	Ant1	10.85	30	Pass
NVNT	ax40	5795	Ant2	11.85	30	Pass
NVNT	ax40	5795	Sum	14.39	30	Pass
NVNT	ax80	5775	Ant1	10.62	30	Pass
NVNT	ax80	5775	Ant2	11.6	30	Pass
NVNT	ax80	5775	Sum	14.15	30	Pass
NVNT	n20	5745	Ant1	9.8	30	Pass
NVNT	n20	5745	Ant2	9.38	30	Pass
NVNT	n20	5745	Sum	12.61	30	Pass
NVNT	n20	5785	Ant1	10.3	30	Pass
NVNT	n20	5785	Ant2	9.8	30	Pass

NVNT	n20	5785	Sum	13.07	30	Pass
NVNT	n20	5825	Ant1	10.86	30	Pass
NVNT	n20	5825	Ant2	10.39	30	Pass
NVNT	n20	5825	Sum	13.64	30	Pass
NVNT	n40	5755	Ant1	10.12	30	Pass
NVNT	n40	5755	Ant2	11.48	30	Pass
NVNT	n40	5755	Sum	13.86	30	Pass
NVNT	n40	5795	Ant1	10.63	30	Pass
NVNT	n40	5795	Ant2	11.65	30	Pass
NVNT	n40	5795	Sum	14.18	30	Pass

Note:

- For 802.11n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, this device employ CDD for MIMO mode, according to KDB 662911 D01 Multiple Transmitter

Output v02r01, Directional gain = $G_{ANT} + 10 \log(N)$

Directional gain = $2.71 + 3 = 5.71 \text{dBi} < 6 \text{dBi}$, So the limit does not need to be reduced.

- The conducted average power contains duty cycle factor.

Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
NVNT	ac20	5745	Ant1	-5.12	0	-5.12	30	Pass
NVNT	ac20	5745	Ant2	-5.74	0	-5.74	30	Pass
NVNT	ac20	5745	Sum	-2.41	0	-2.41	30	Pass
NVNT	ac20	5785	Ant1	-5.62	0	-5.62	30	Pass
NVNT	ac20	5785	Ant2	-5.62	0	-5.62	30	Pass
NVNT	ac20	5785	Sum	-2.61	0	-2.61	30	Pass
NVNT	ac20	5825	Ant1	-4.89	0	-4.89	30	Pass
NVNT	ac20	5825	Ant2	-5.05	0	-5.05	30	Pass
NVNT	ac20	5825	Sum	-1.96	0	-1.96	30	Pass
NVNT	ac40	5755	Ant1	-7.88	0	-7.88	30	Pass
NVNT	ac40	5755	Ant2	-8.04	0	-8.04	30	Pass
NVNT	ac40	5755	Sum	-4.95	0	-4.95	30	Pass
NVNT	ac40	5795	Ant1	-8.11	0	-8.11	30	Pass
NVNT	ac40	5795	Ant2	-7.58	0	-7.58	30	Pass
NVNT	ac40	5795	Sum	-4.83	0	-4.83	30	Pass
NVNT	ac80	5775	Ant1	-11.79	0	-11.79	30	Pass
NVNT	ac80	5775	Ant2	-12.21	0	-12.21	30	Pass
NVNT	ac80	5775	Sum	-8.98	0	-8.98	30	Pass
NVNT	ax20	5745	Ant1	-5.79	0	-5.79	30	Pass
NVNT	ax20	5745	Ant2	-5.92	0	-5.92	30	Pass
NVNT	ax20	5745	Sum	-2.84	0	-2.84	30	Pass
NVNT	ax20	5785	Ant1	-5.85	0	-5.85	30	Pass
NVNT	ax20	5785	Ant2	-5.86	0	-5.86	30	Pass
NVNT	ax20	5785	Sum	-2.84	0	-2.84	30	Pass
NVNT	ax20	5825	Ant1	-4.96	0	-4.96	30	Pass
NVNT	ax20	5825	Ant2	-5.29	0	-5.29	30	Pass
NVNT	ax20	5825	Sum	-2.11	0	-2.11	30	Pass
NVNT	ax40	5755	Ant1	-8.87	0	-8.87	30	Pass
NVNT	ax40	5755	Ant2	-8.56	0	-8.56	30	Pass
NVNT	ax40	5755	Sum	-5.7	0	-5.7	30	Pass
NVNT	ax40	5795	Ant1	-8.36	0	-8.36	30	Pass
NVNT	ax40	5795	Ant2	-7.84	0	-7.84	30	Pass
NVNT	ax40	5795	Sum	-5.08	0	-5.08	30	Pass
NVNT	ax80	5775	Ant1	-11.9	0	-11.9	30	Pass
NVNT	ax80	5775	Ant2	-12.25	0	-12.25	30	Pass
NVNT	ax80	5775	Sum	-9.06	0	-9.06	30	Pass
NVNT	n20	5745	Ant1	-6	0	-6	30	Pass
NVNT	n20	5745	Ant2	-8	0	-8	30	Pass
NVNT	n20	5745	Sum	-3.88	0	-3.88	30	Pass

NVNT	n20	5785	Ant1	-4.65	0	-4.65	30	Pass
NVNT	n20	5785	Ant2	-5.75	0	-5.75	30	Pass
NVNT	n20	5785	Sum	-2.15	0	-2.15	30	Pass
NVNT	n20	5825	Ant1	-4.7	0	-4.7	30	Pass
NVNT	n20	5825	Ant2	-4.79	0	-4.79	30	Pass
NVNT	n20	5825	Sum	-1.73	0	-1.73	30	Pass
NVNT	n40	5755	Ant1	-8.76	0	-8.76	30	Pass
NVNT	n40	5755	Ant2	-8.57	0	-8.57	30	Pass
NVNT	n40	5755	Sum	-5.65	0	-5.65	30	Pass
NVNT	n40	5795	Ant1	-8.28	0	-8.28	30	Pass
NVNT	n40	5795	Ant2	-7.52	0	-7.52	30	Pass
NVNT	n40	5795	Sum	-4.87	0	-4.87	30	Pass

Note:

- For 802.11n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, this device employ CDD for MIMO mode, according to KDB 662911 D01

Multiple Transmitter

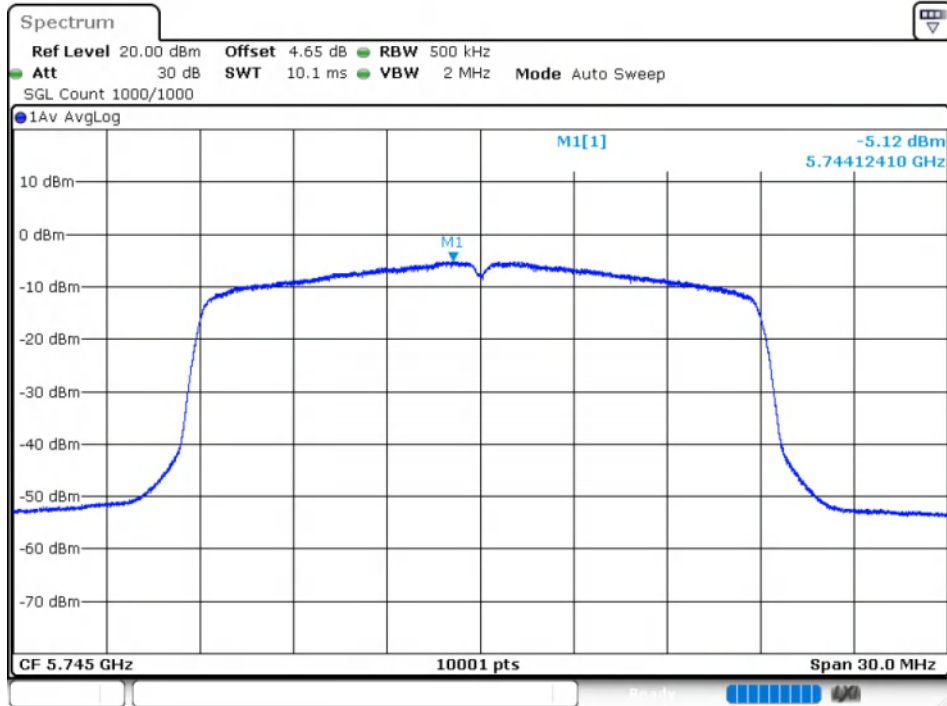
Output v02r01, Directional gain = $G_{ANT} + 10 \log(N)$

Directional gain = $2.71 + 3 = 5.71 \text{dBi} < 6 \text{dBi}$, So the limit does not need to be reduced.

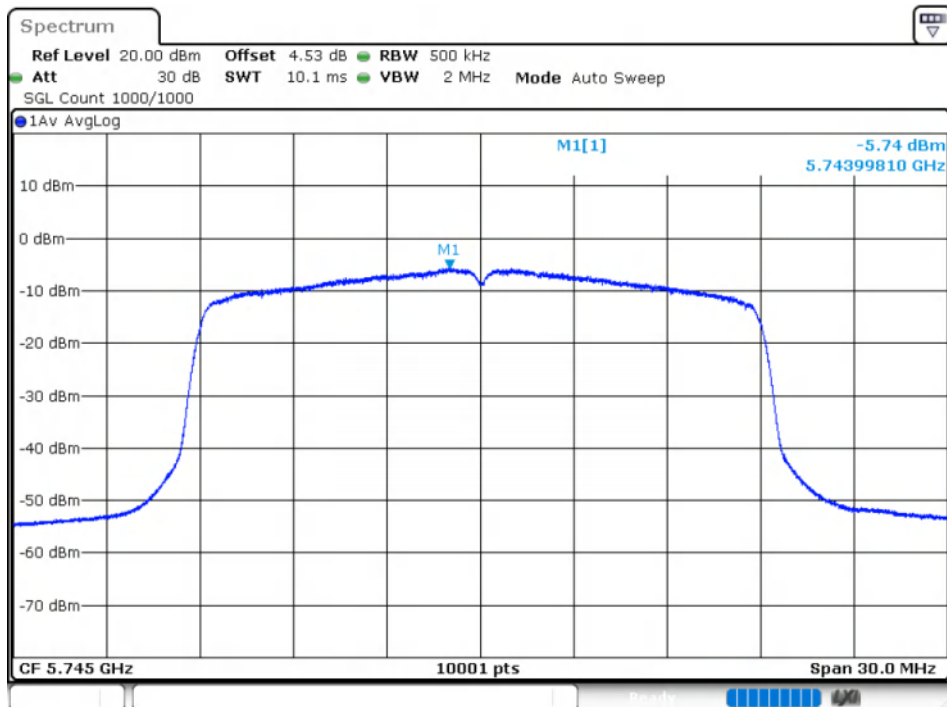
- The conducted average power contains duty cycle factor.

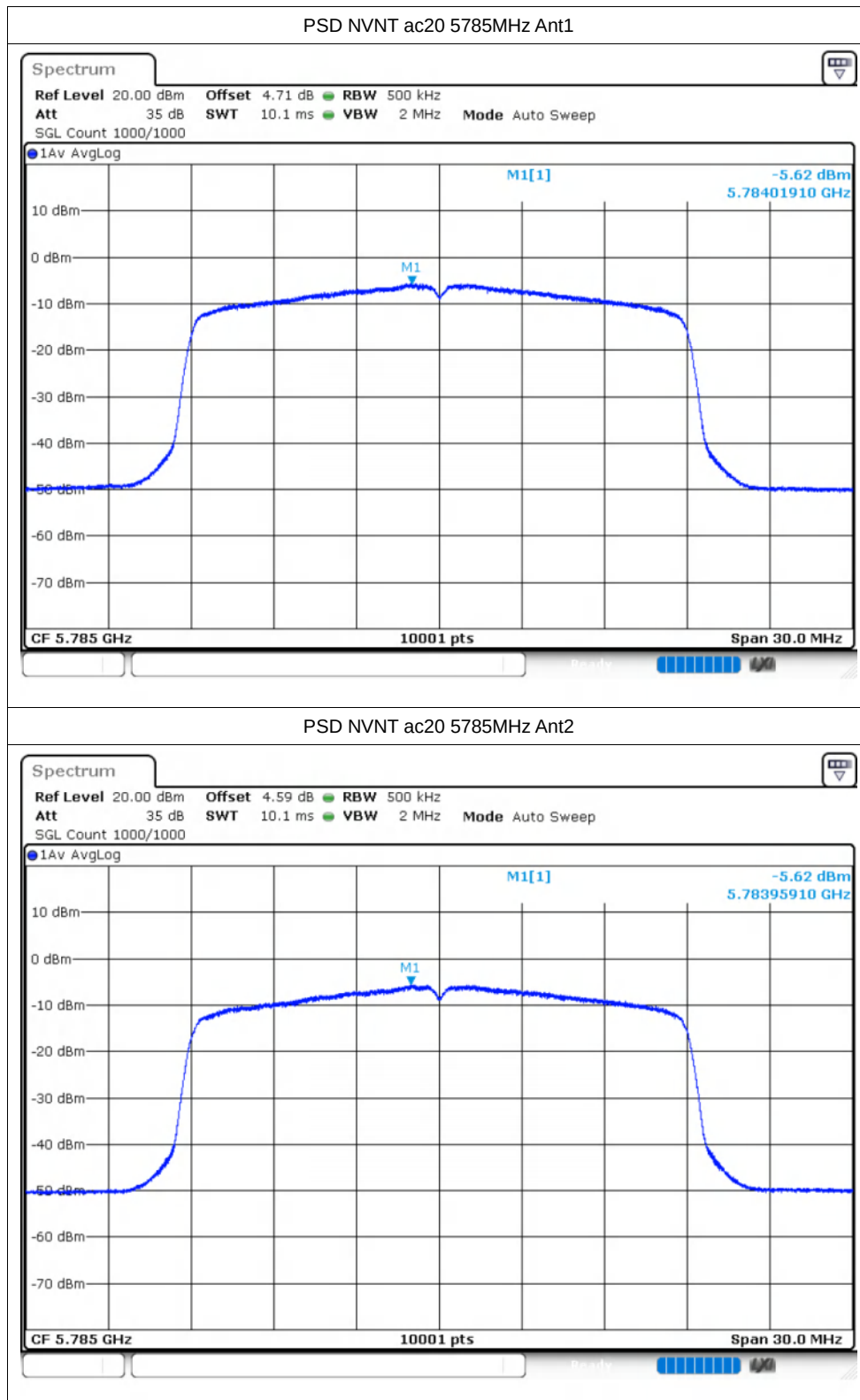
Test Graphs

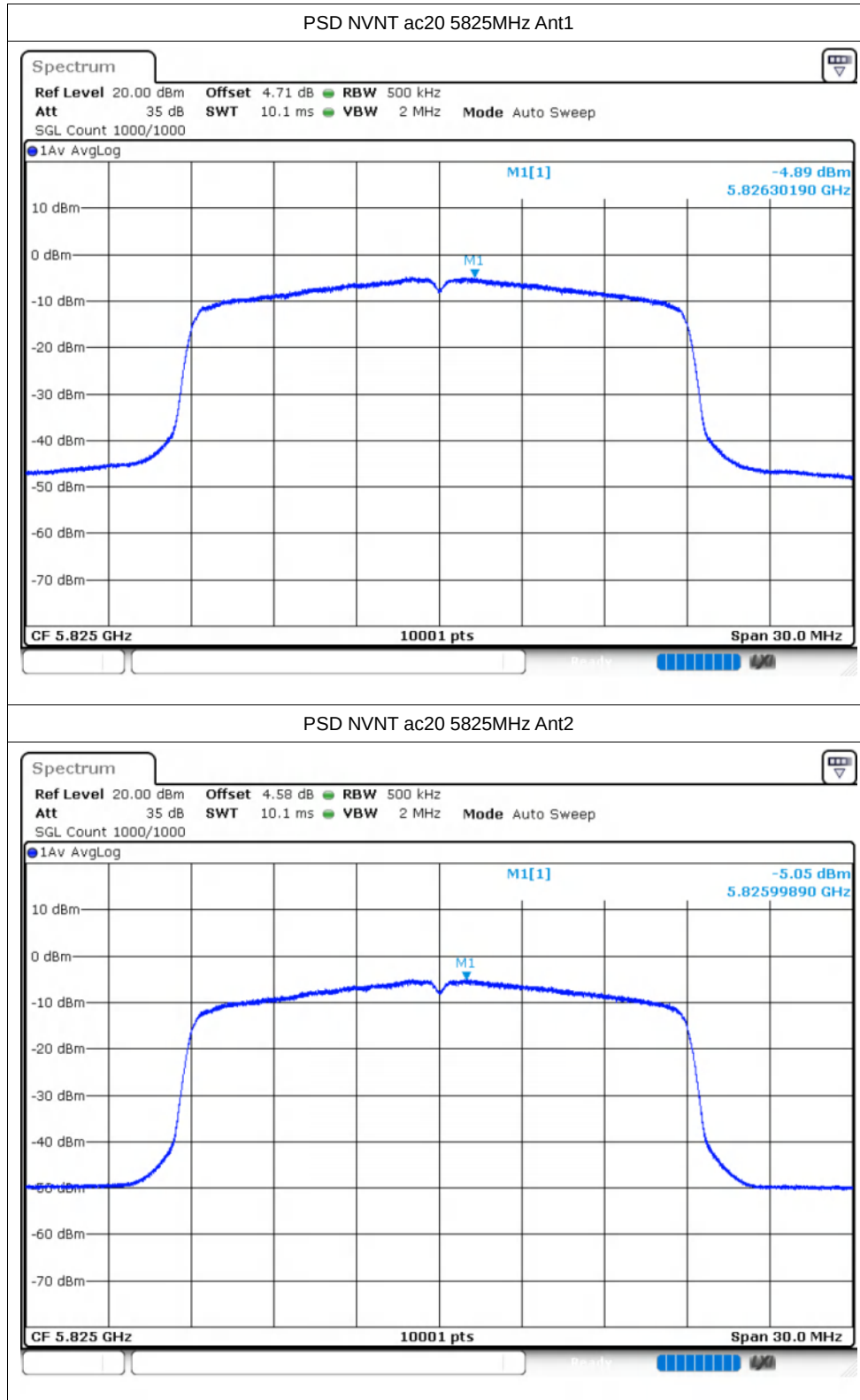
PSD NVNT ac20 5745MHz Ant1



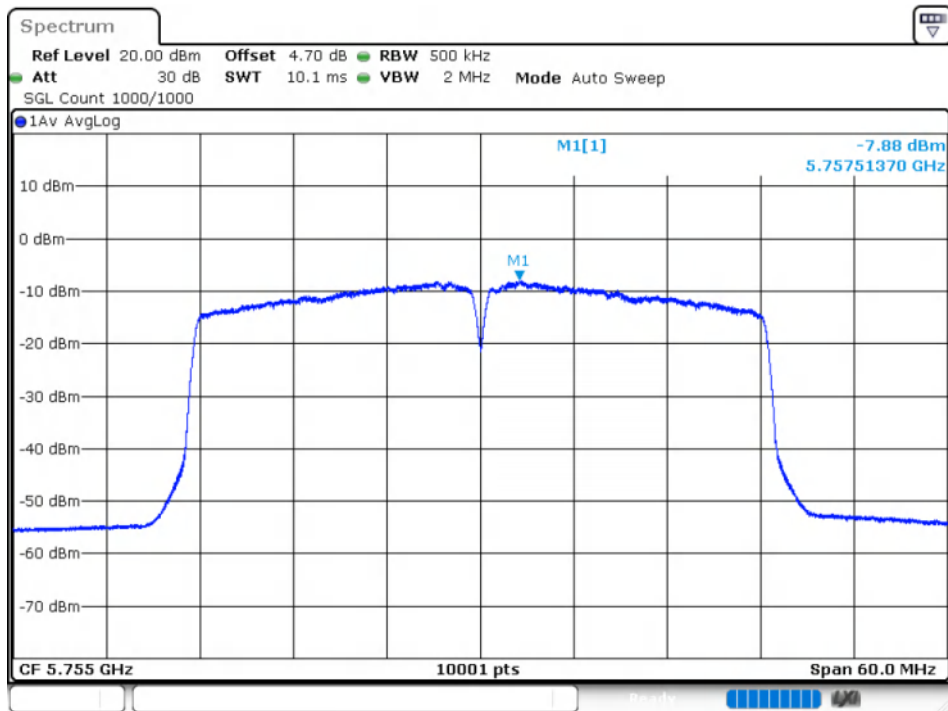
PSD NVNT ac20 5745MHz Ant2



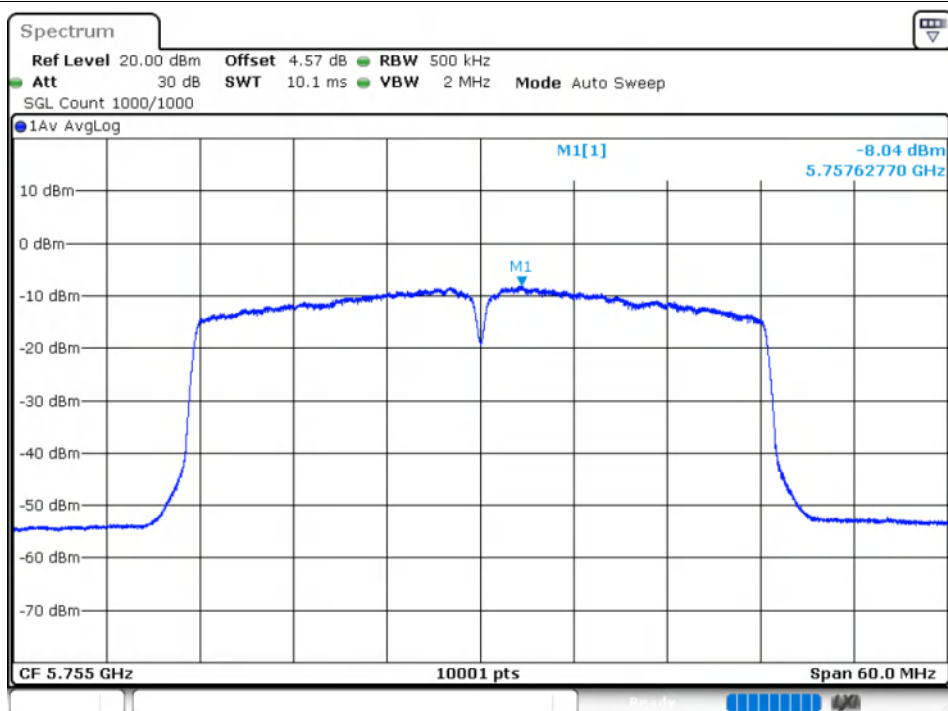




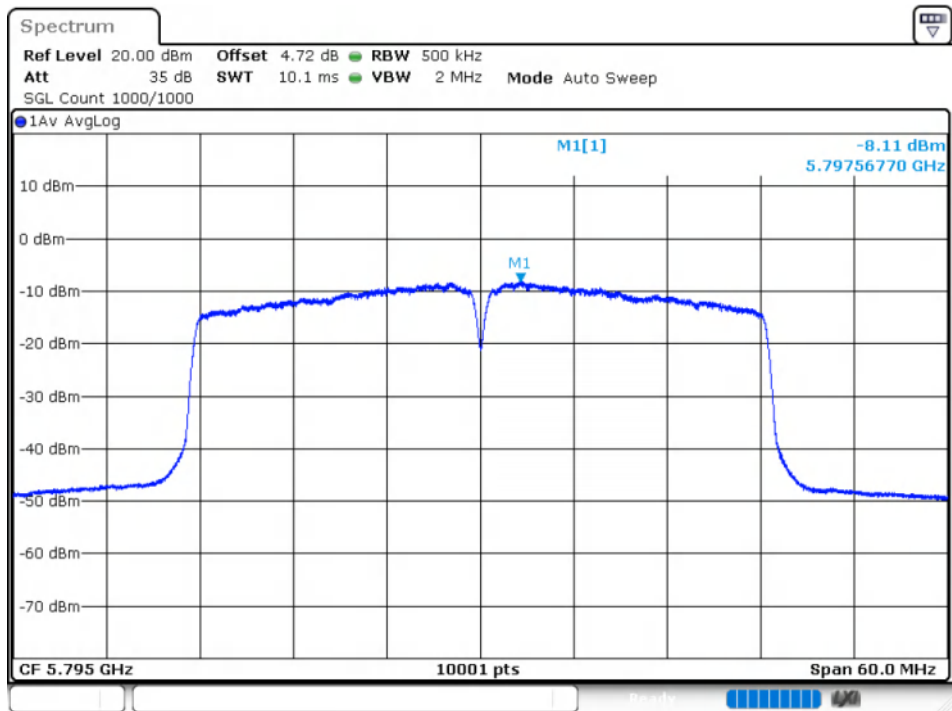
PSD NVNT ac40 5755MHz Ant1



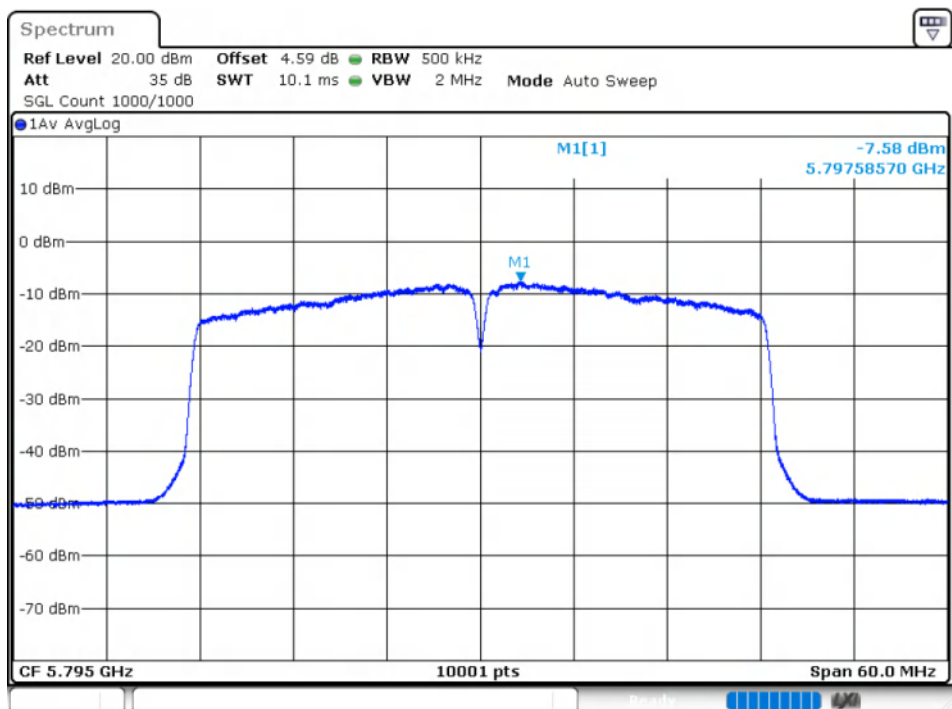
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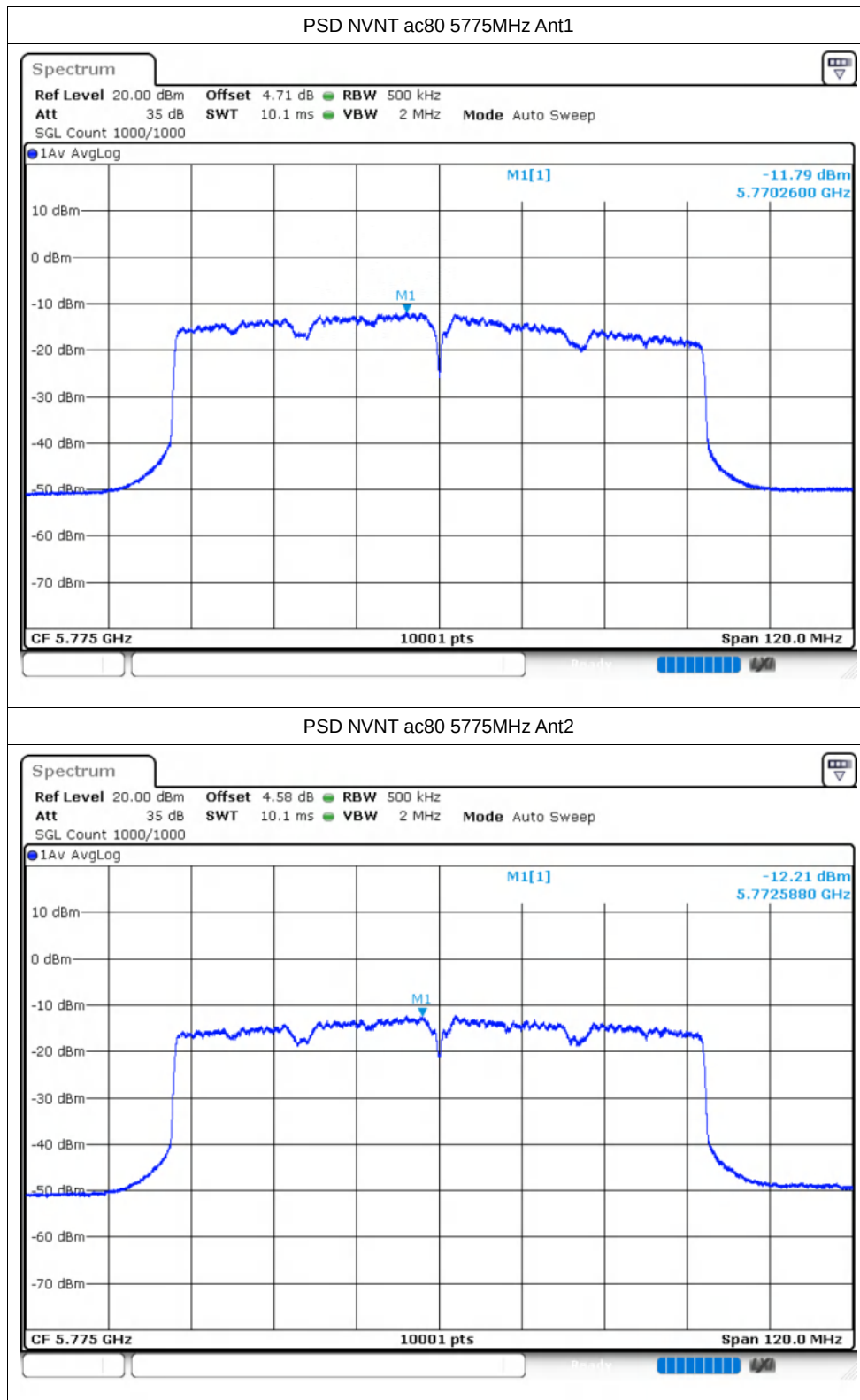


PSD NVNT ac40 5795MHz Ant1

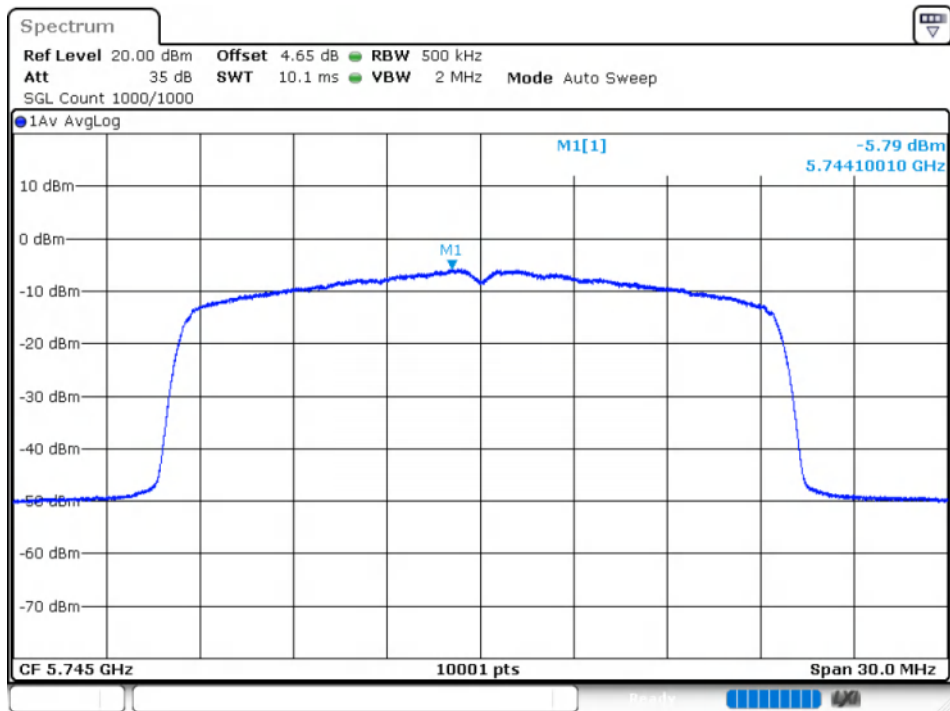


PSD NVNT ac40 5795MHz Ant2

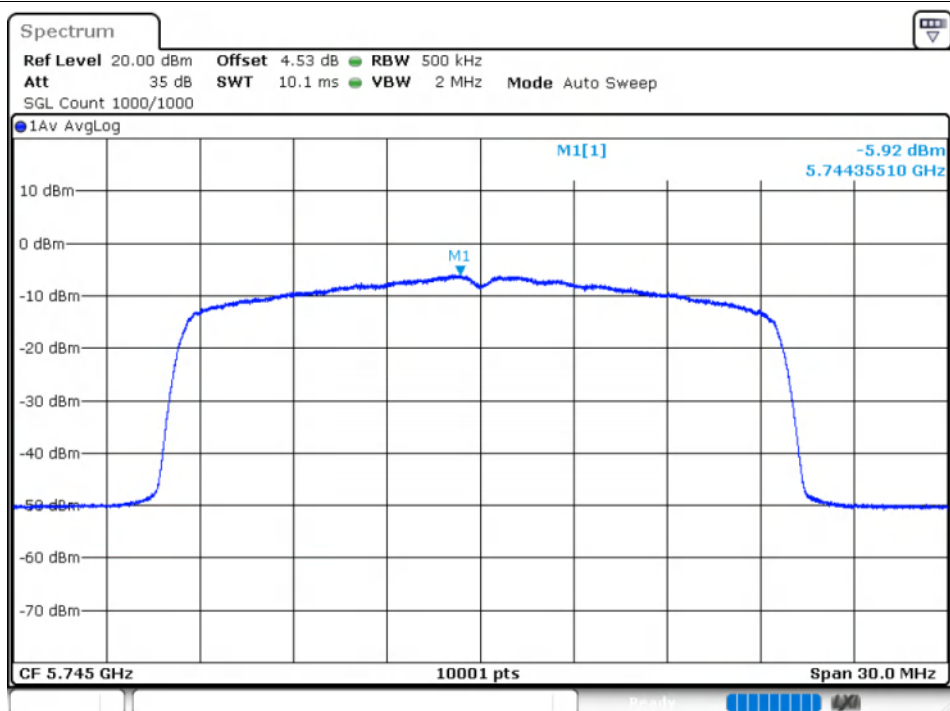


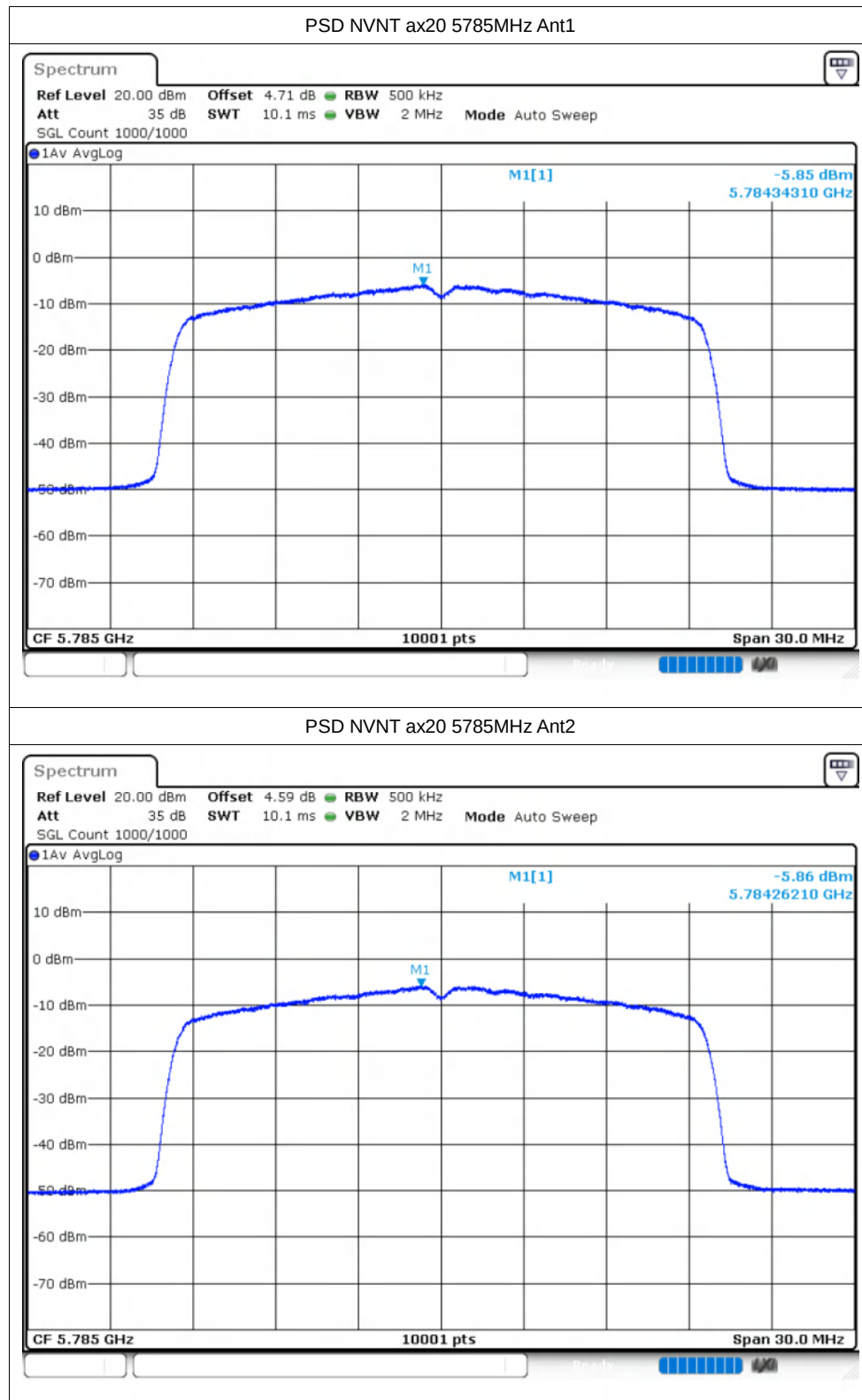


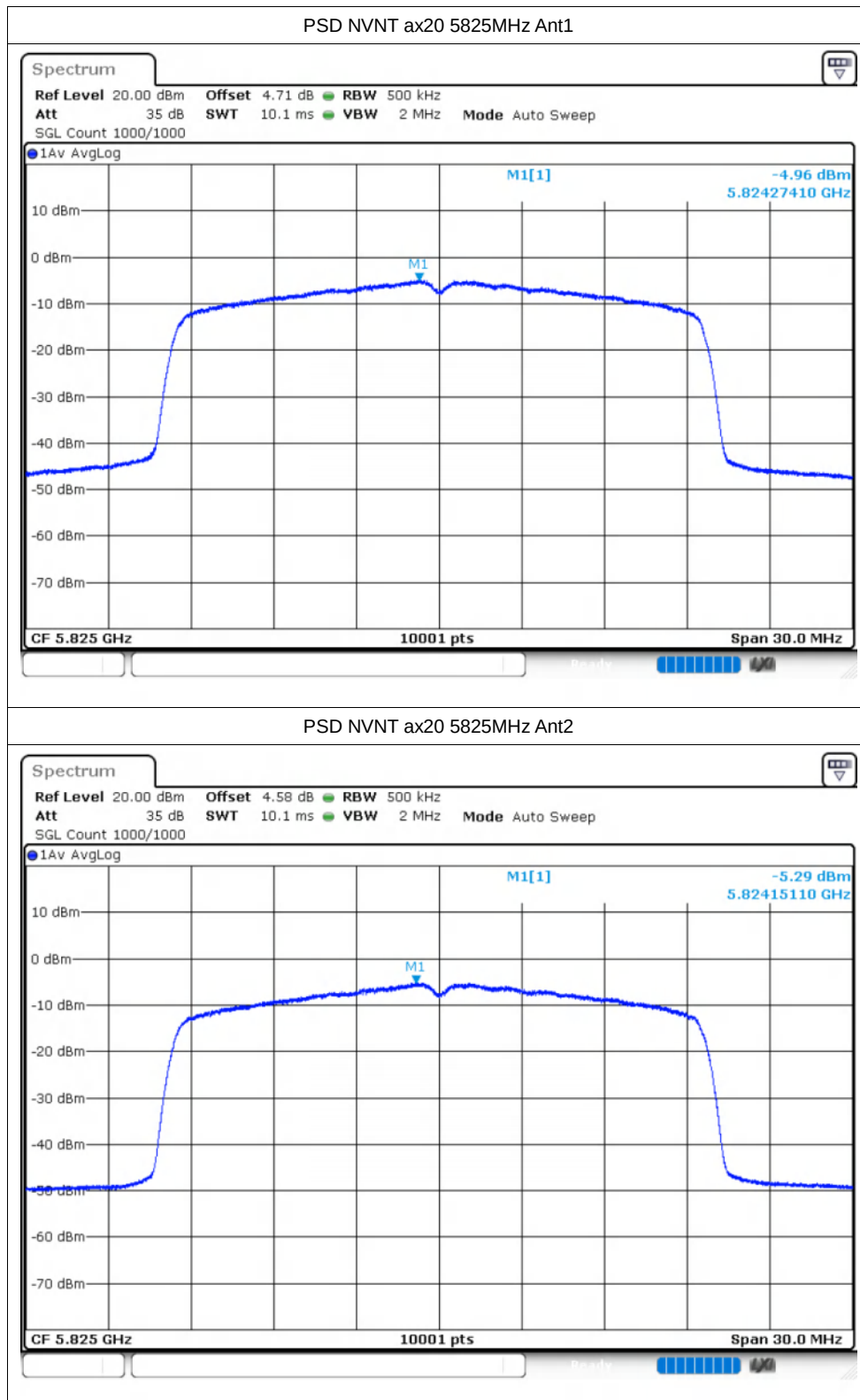
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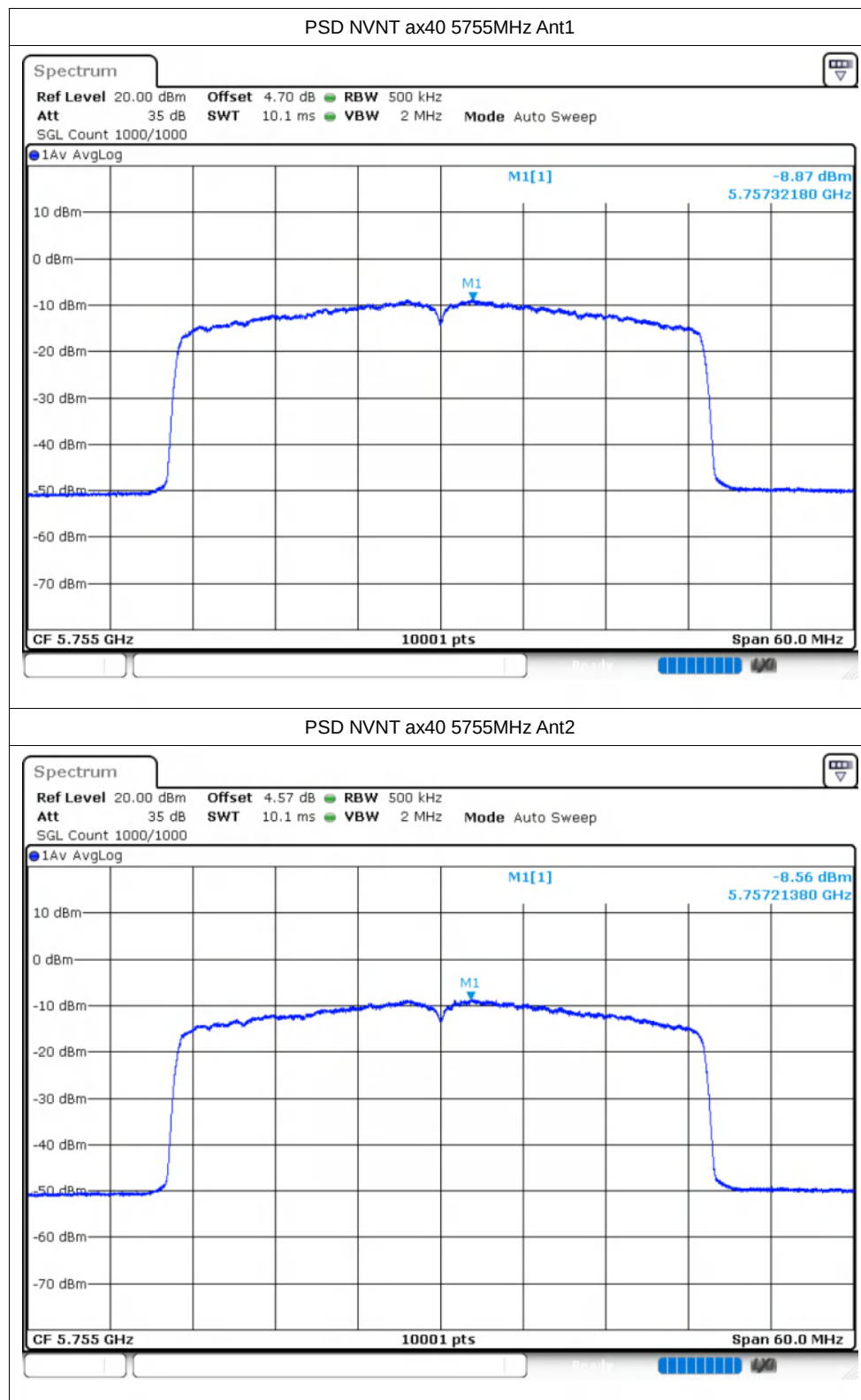


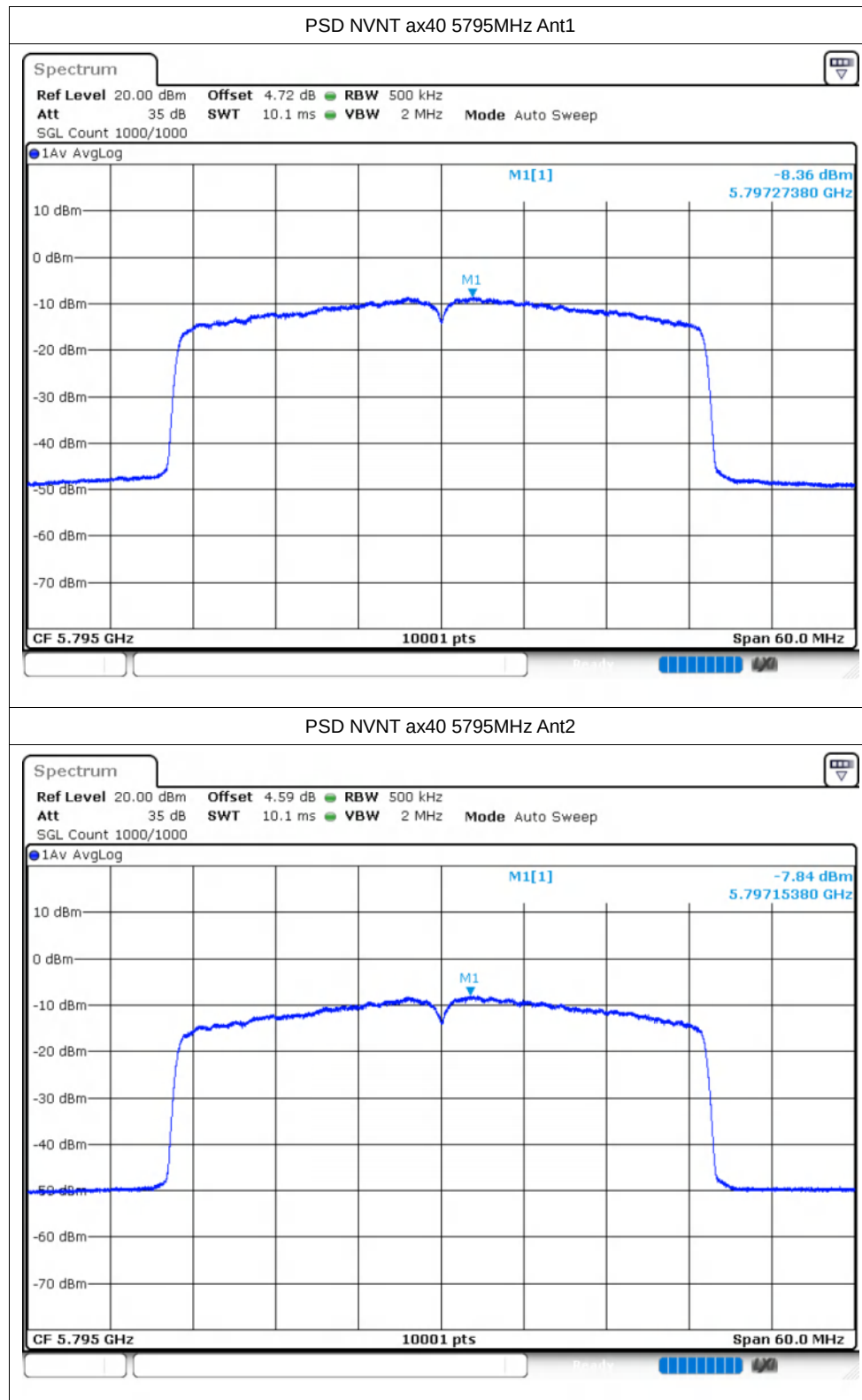
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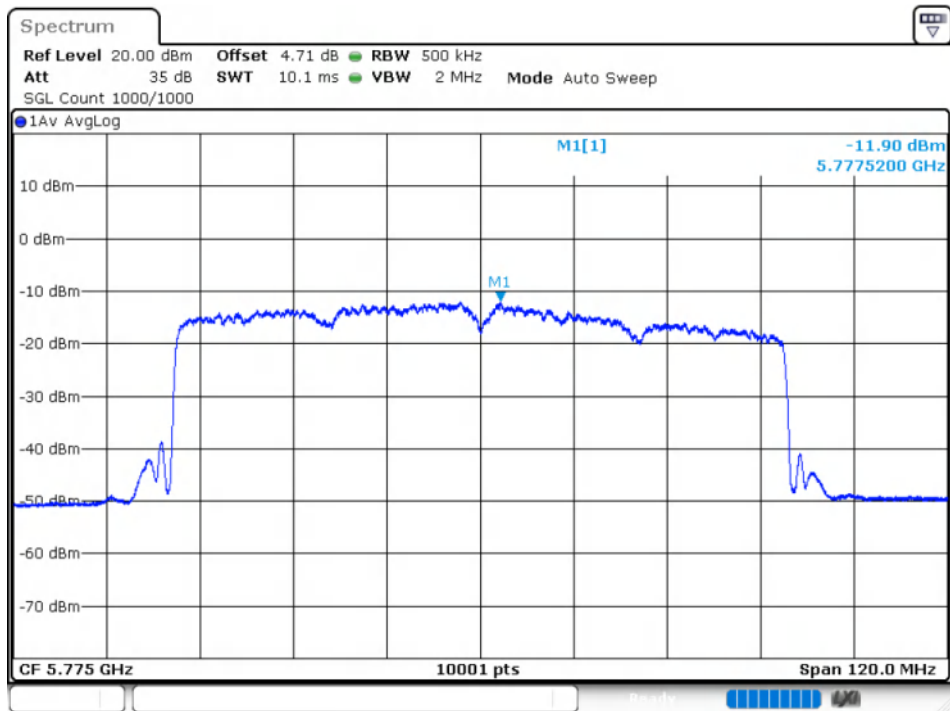




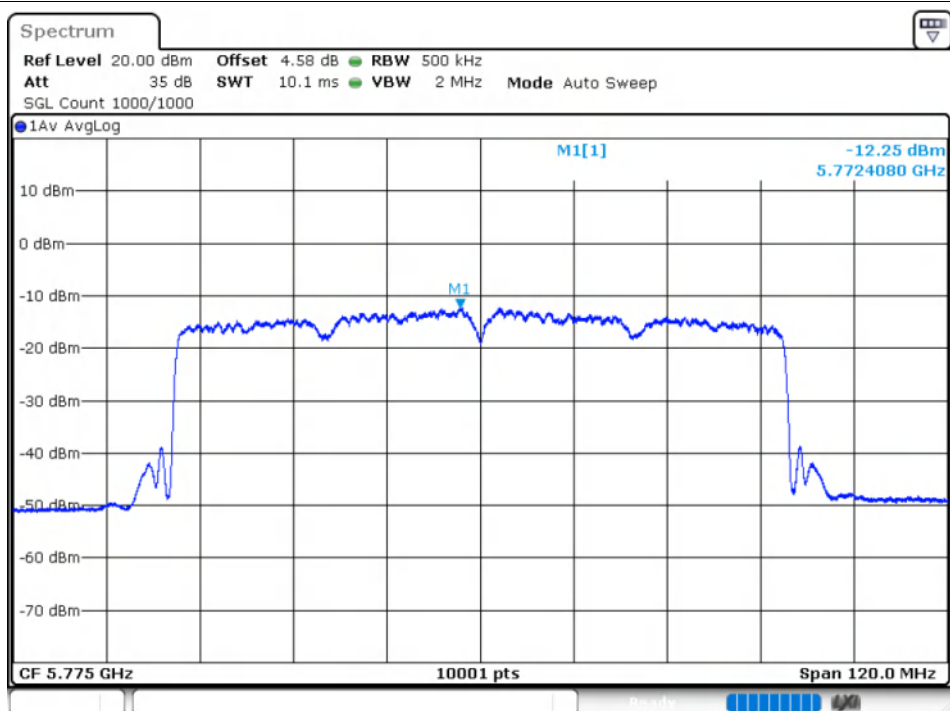


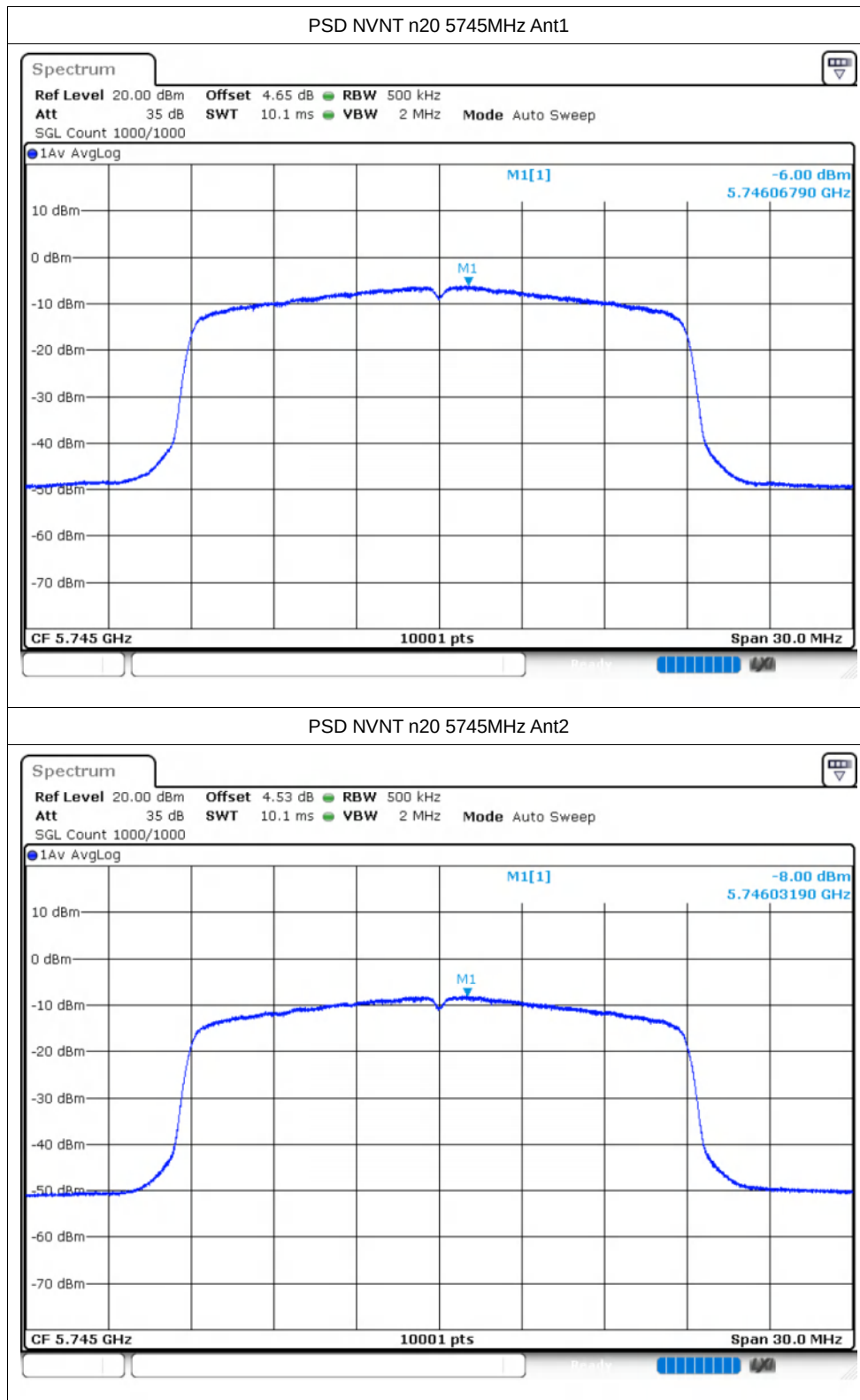


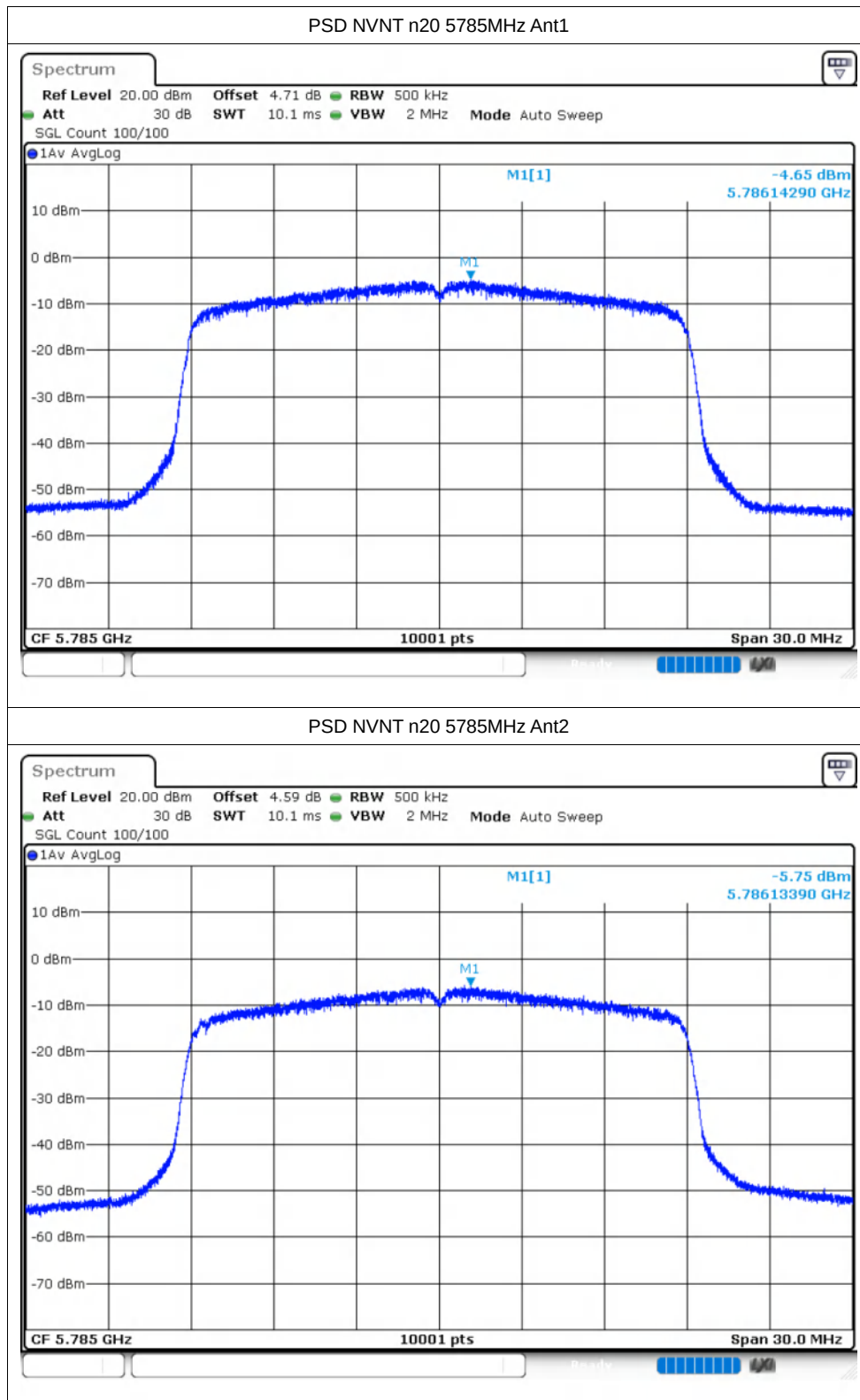
PSD NVNT ax80 5775MHz Ant1

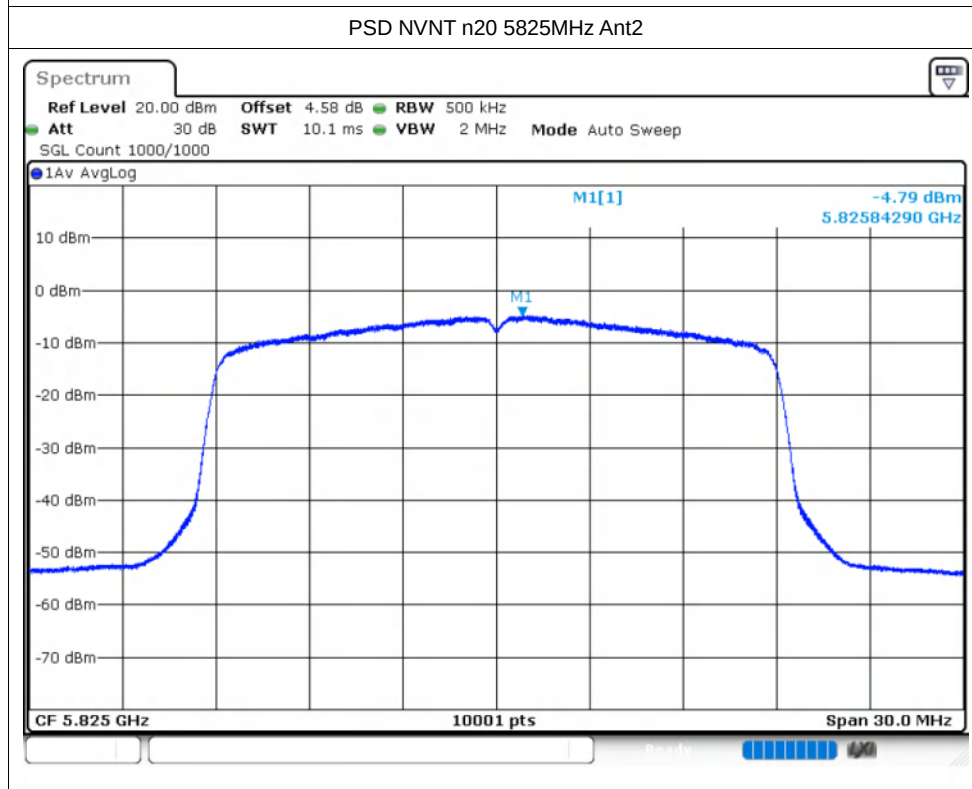
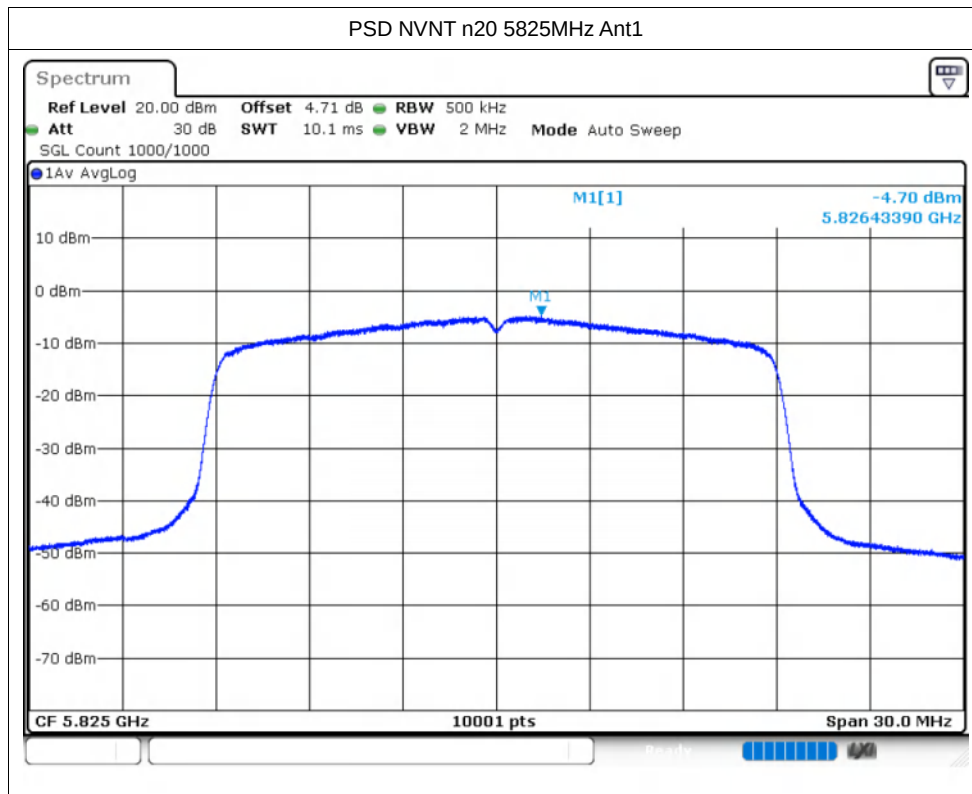


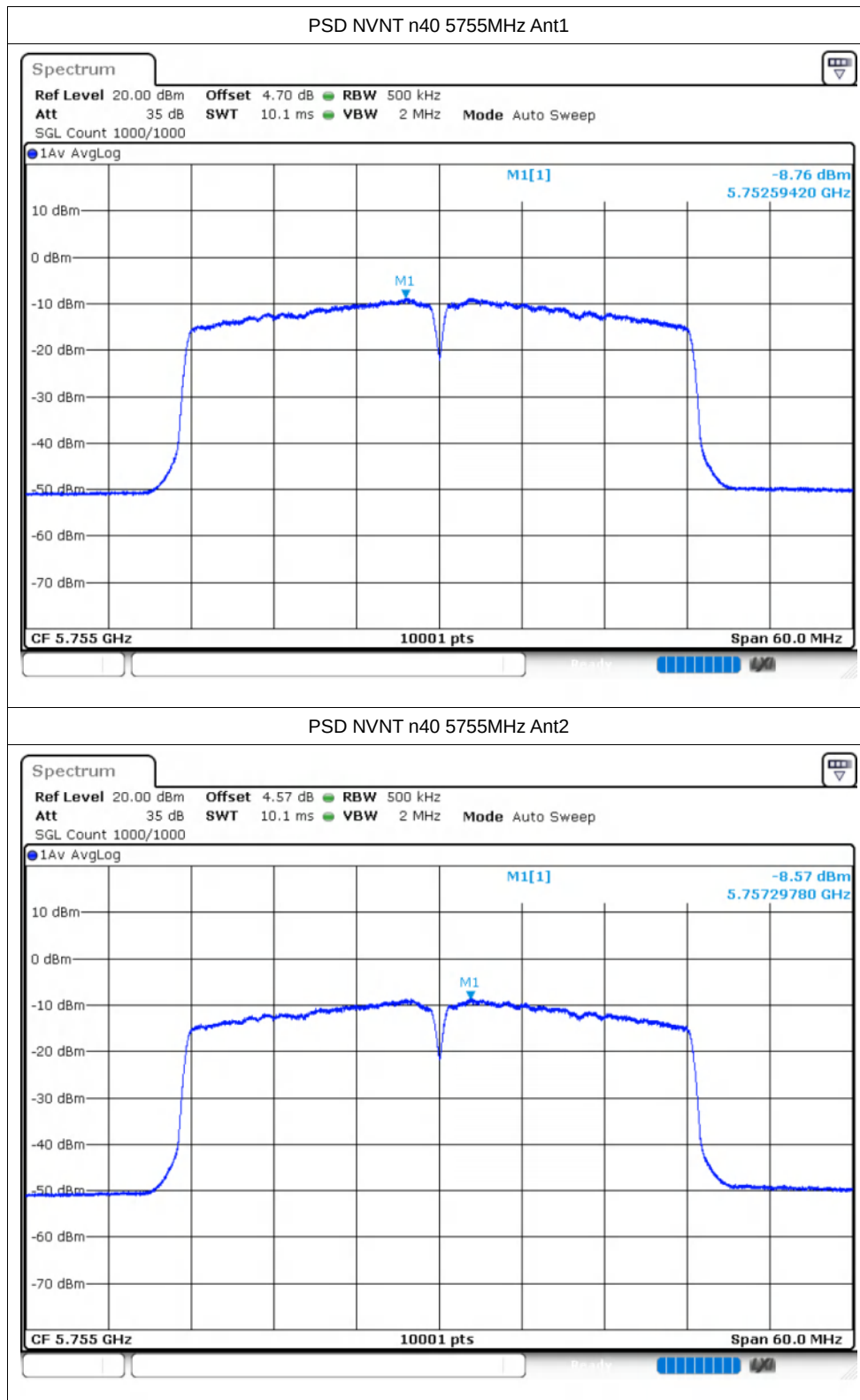
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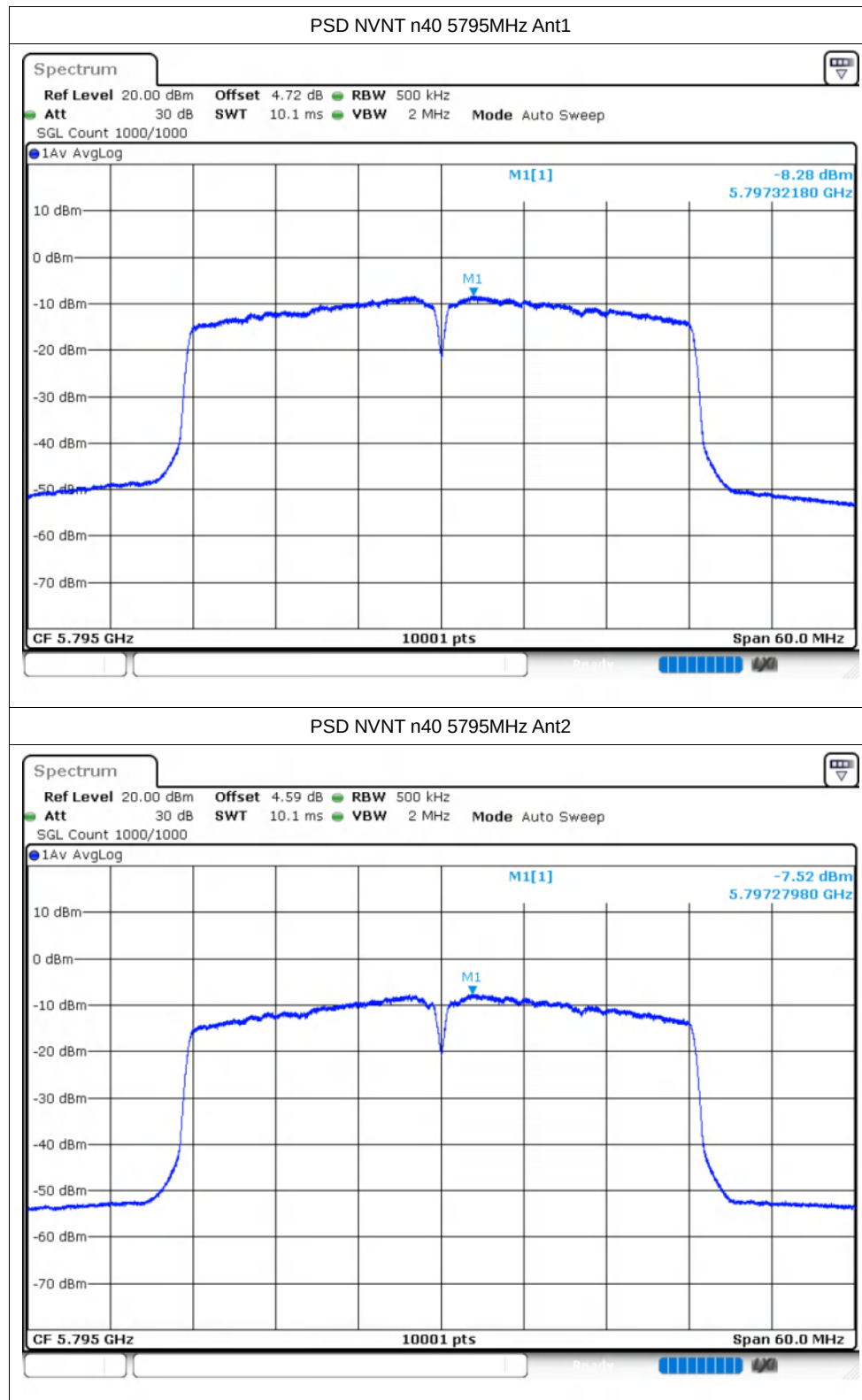








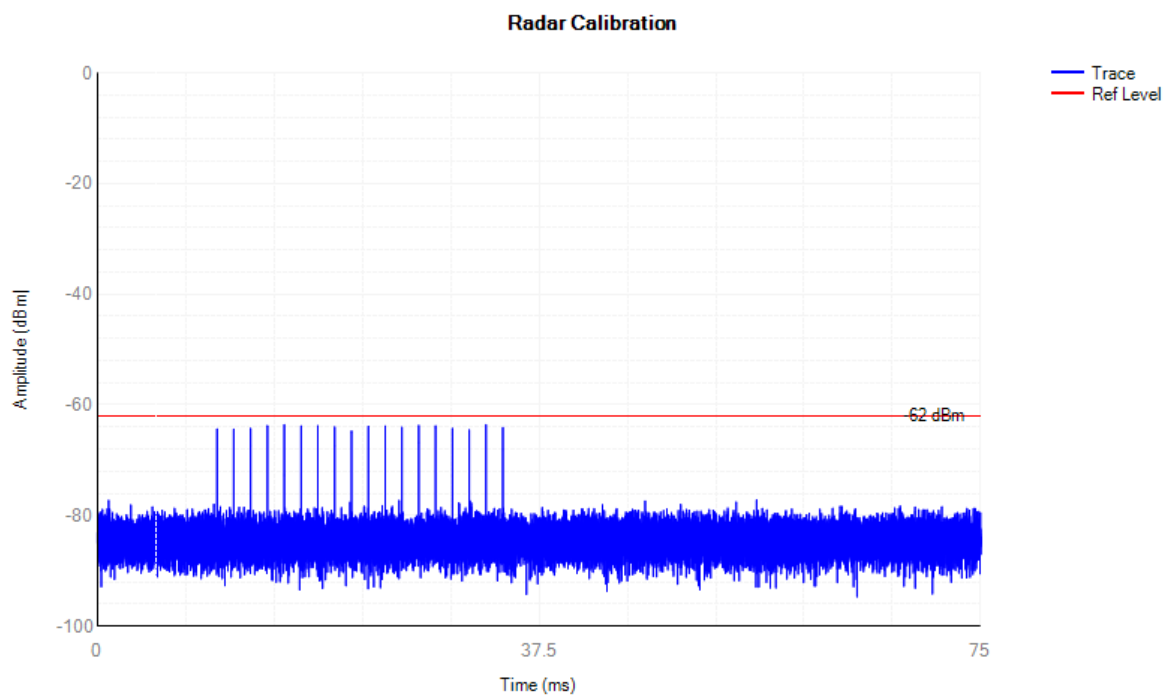




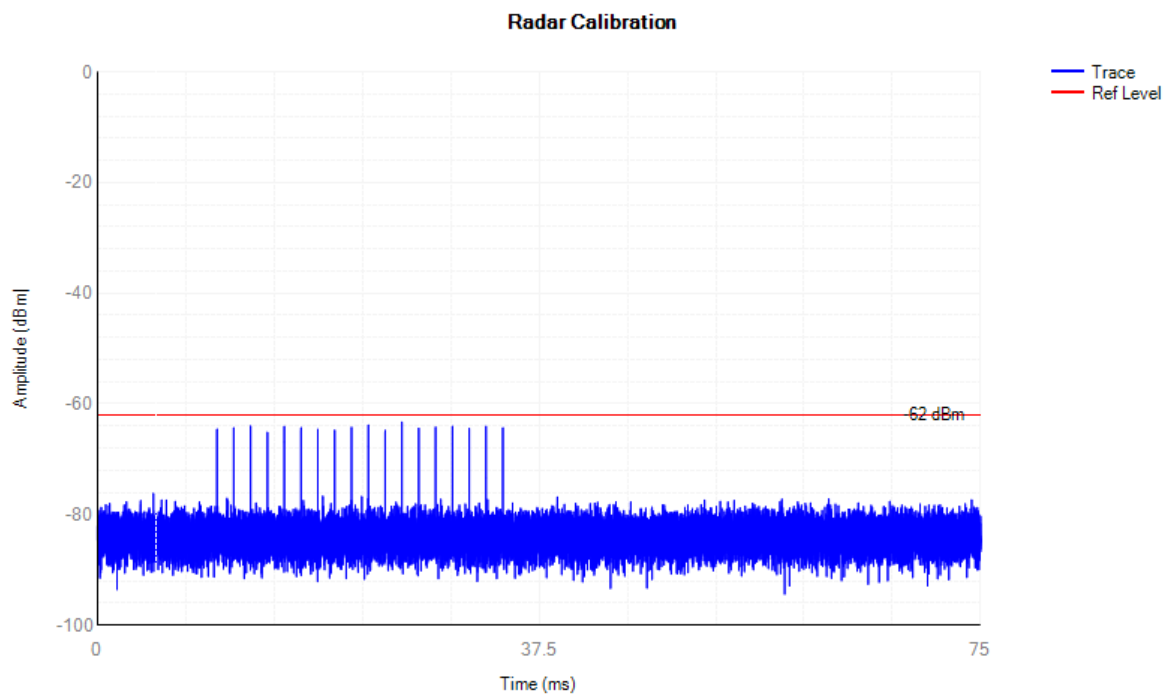
DFS Test Data

Calibration

5290MHz ac80 DFS_FCC_T0

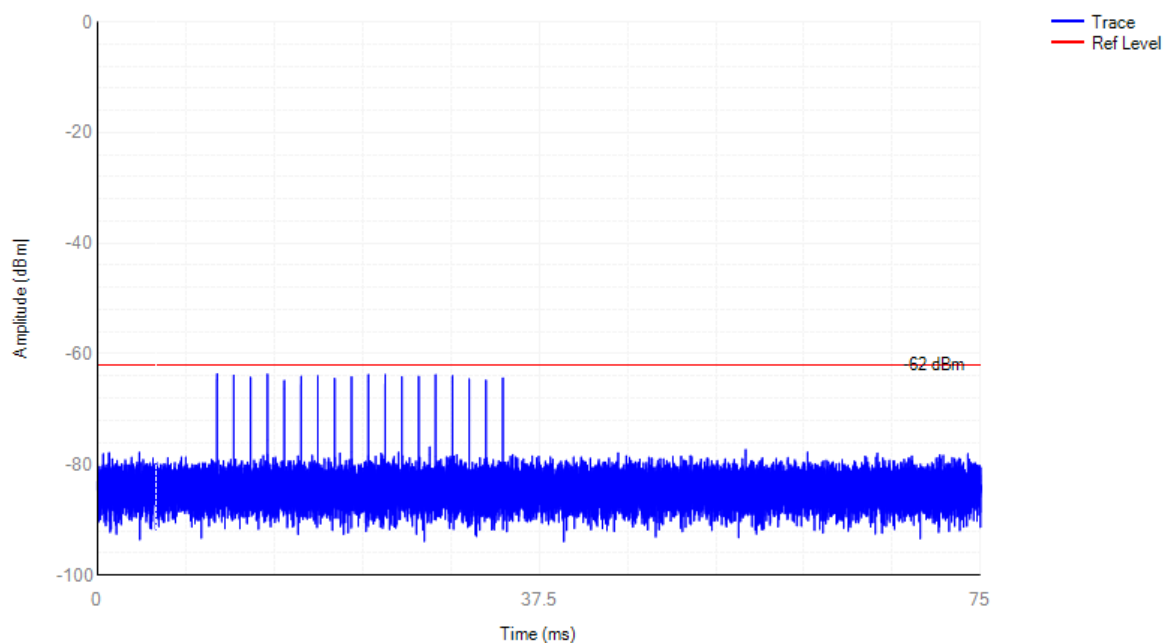


5530MHz ac80 DFS_FCC_T0



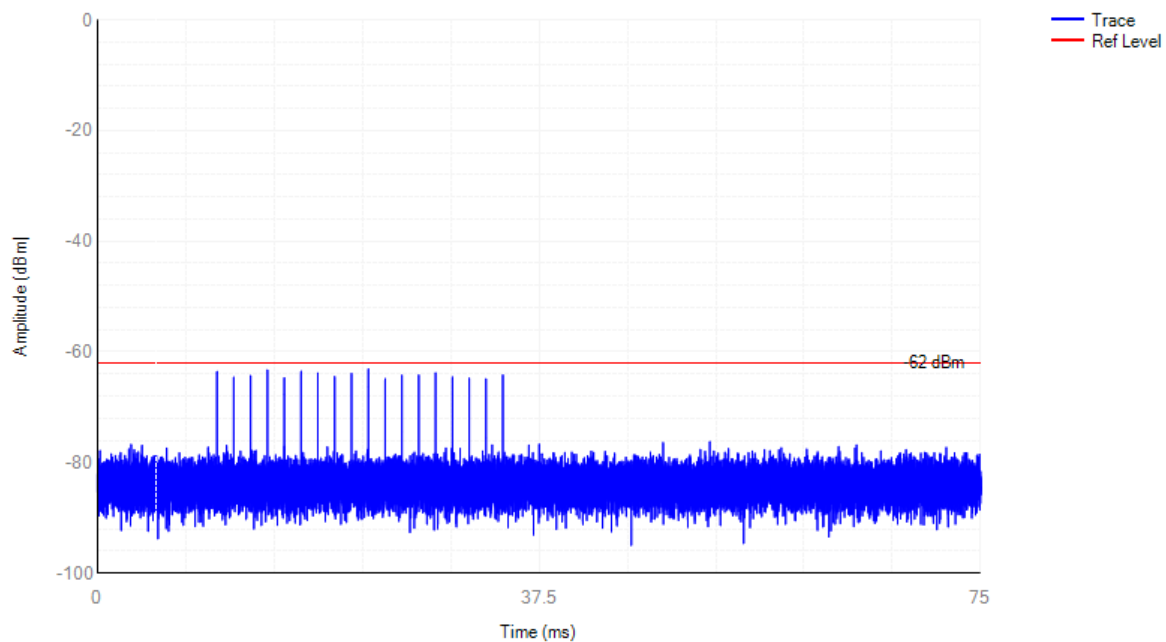
5290MHz ax80 DFS_FCC_T0

Radar Calibration



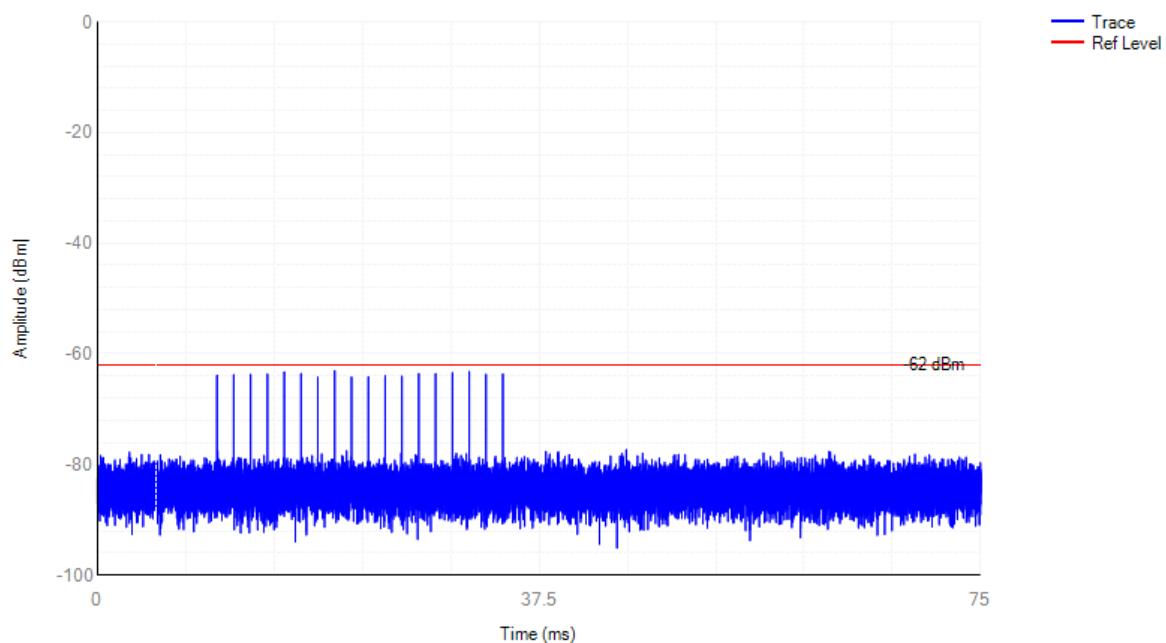
5530MHz ax80 DFS_FCC_T0

Radar Calibration



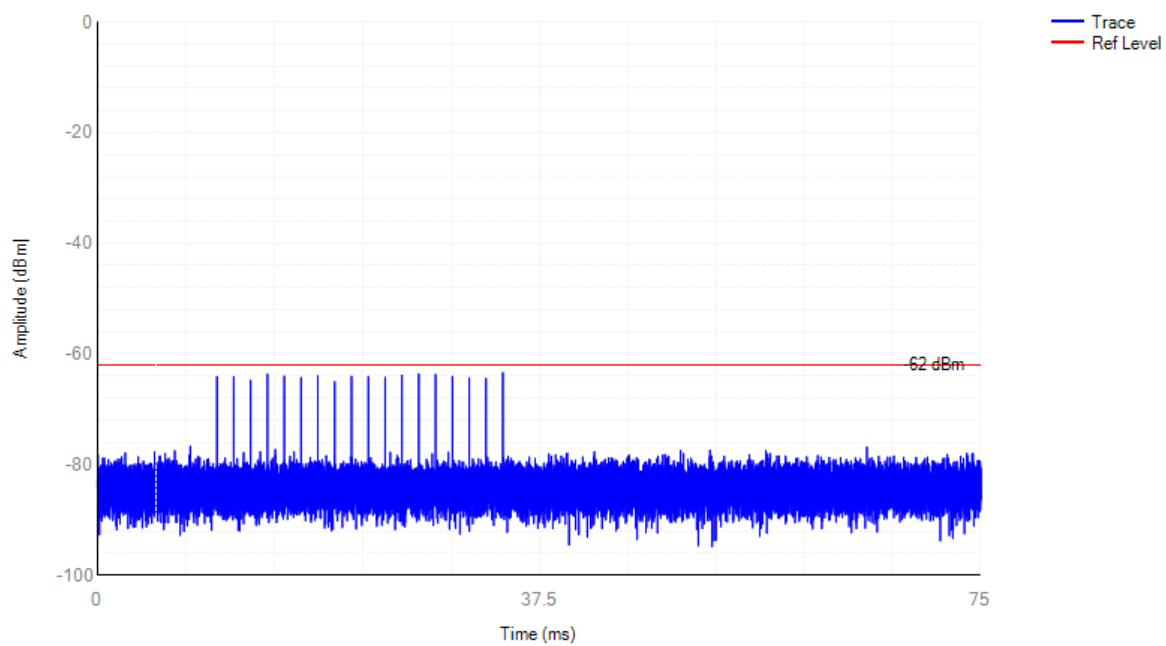
5310MHz n40 DFS_FCC_T0

Radar Calibration



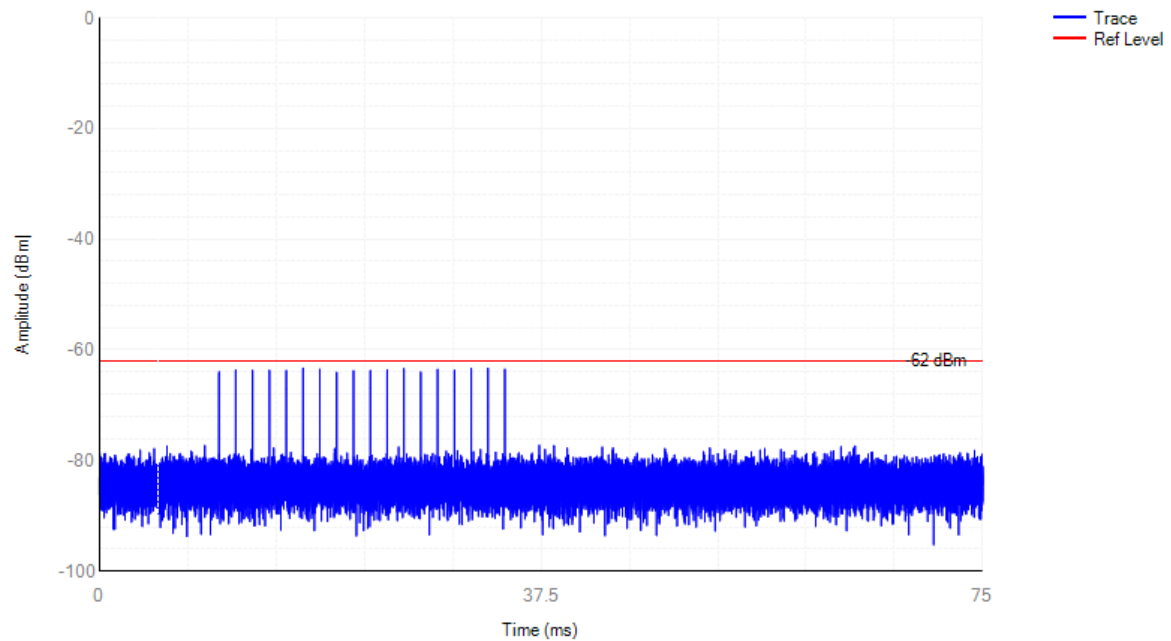
5510MHz n40 DFS_FCC_T0

Radar Calibration



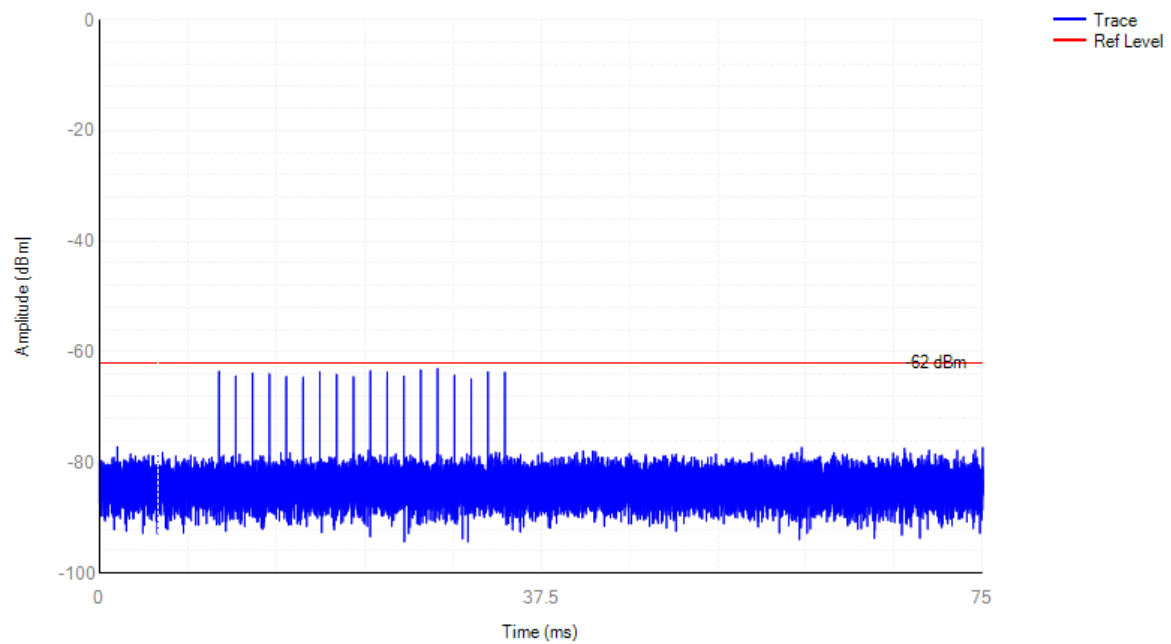
5320MHz a DFS_FCC_T0

Radar Calibration



5500MHz a DFS_FCC_T0

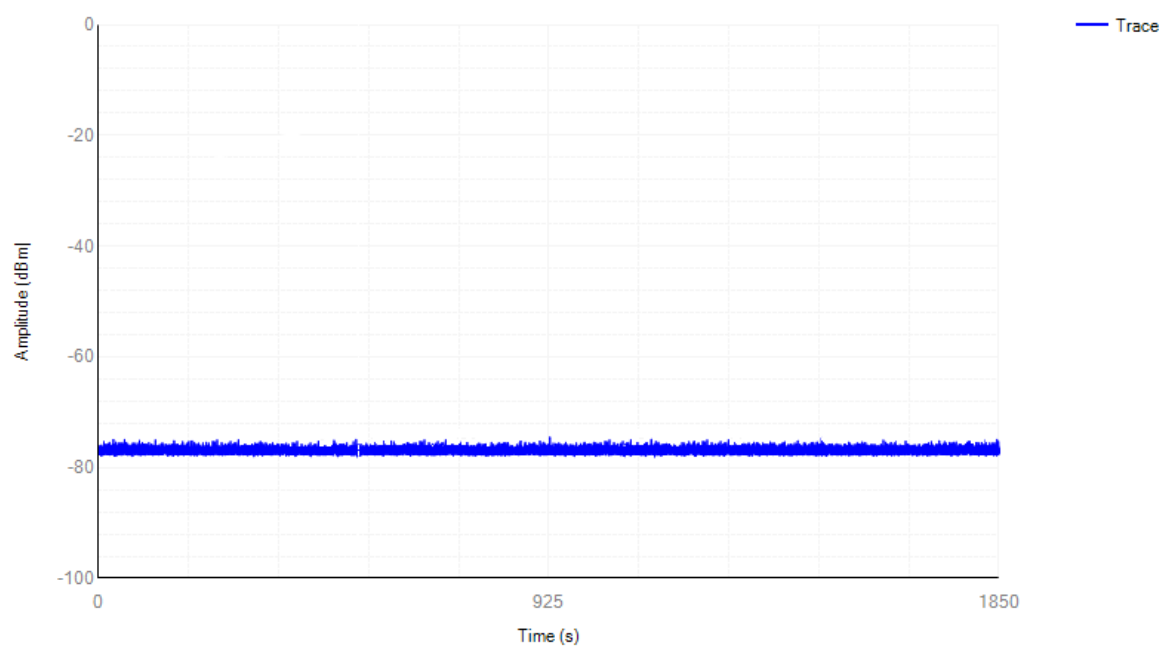
Radar Calibration



Non-Occupancy

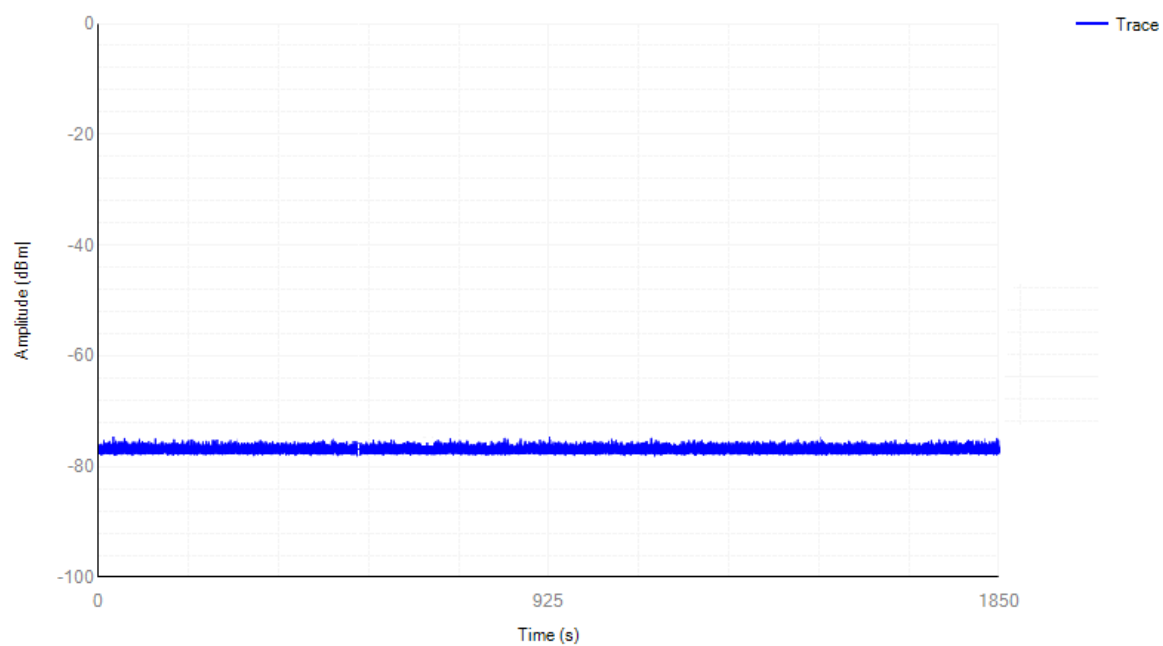
5290MHz ac80 Non-Occupancy

Non-Occupancy period



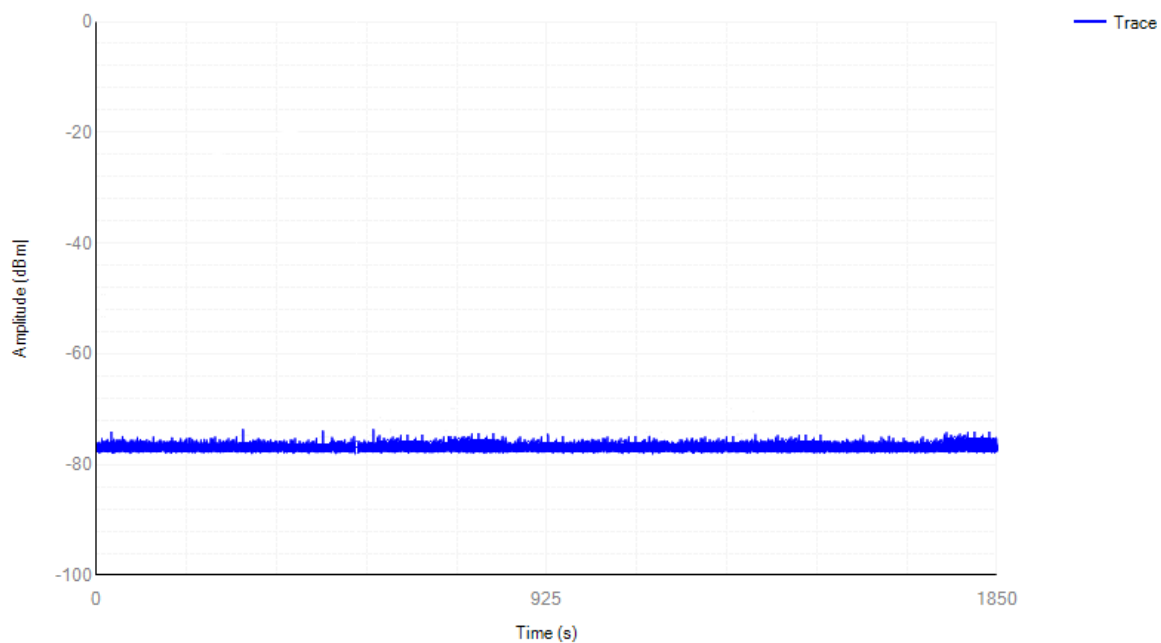
5530MHz ac80 Non-Occupancy

Non-Occupancy period



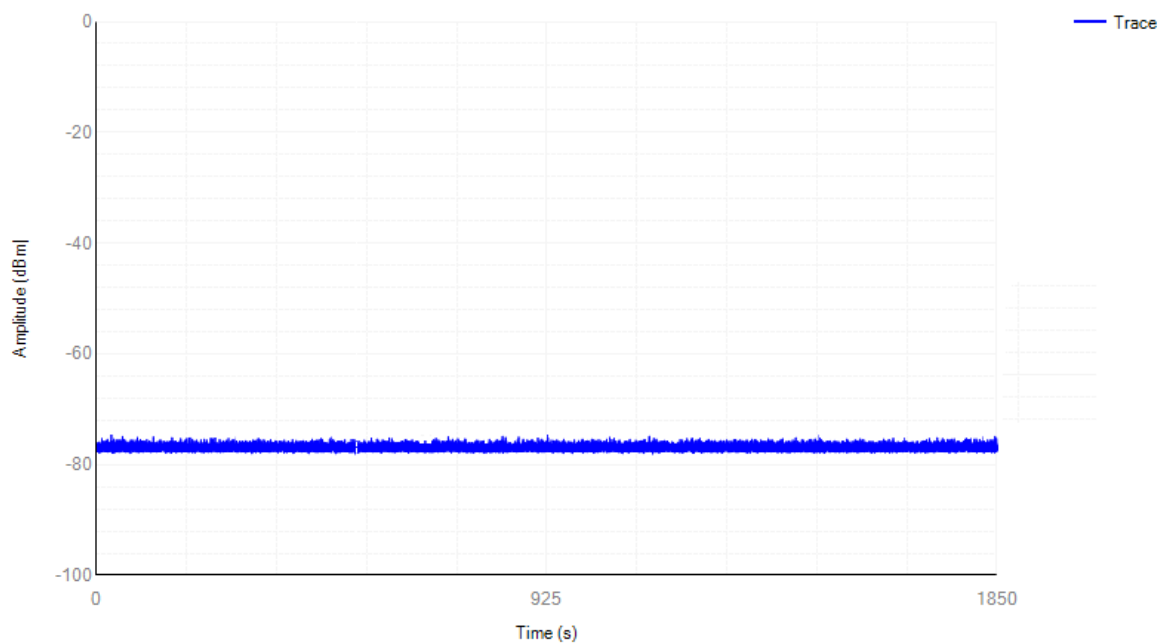
5290MHz ax80 Non-Occupancy

Non-Occupancy period

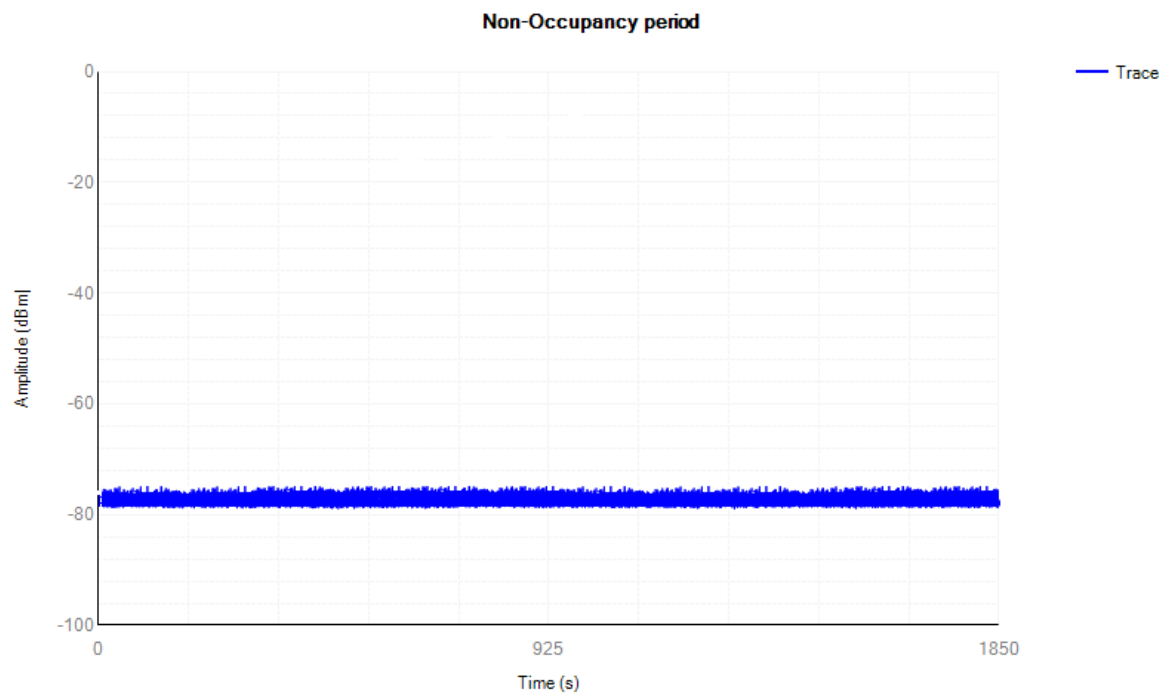


5530MHz ax80 Non-Occupancy

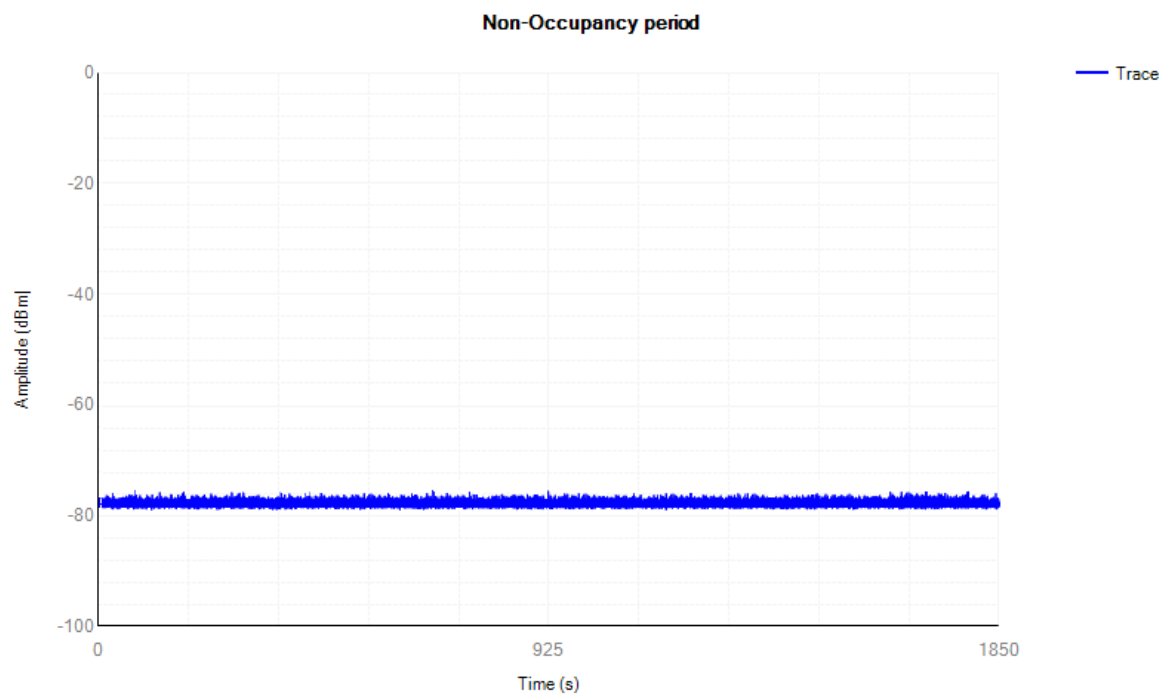
Non-Occupancy period



5310MHz n40 Non-Occupancy

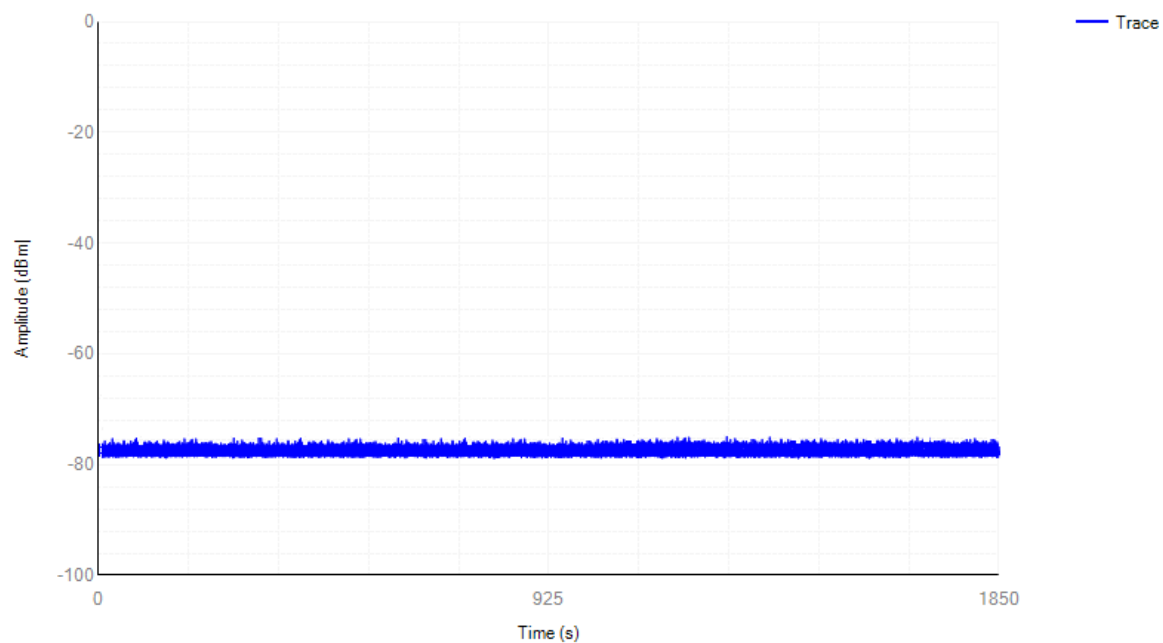


5510MHz n40 Non-Occupancy



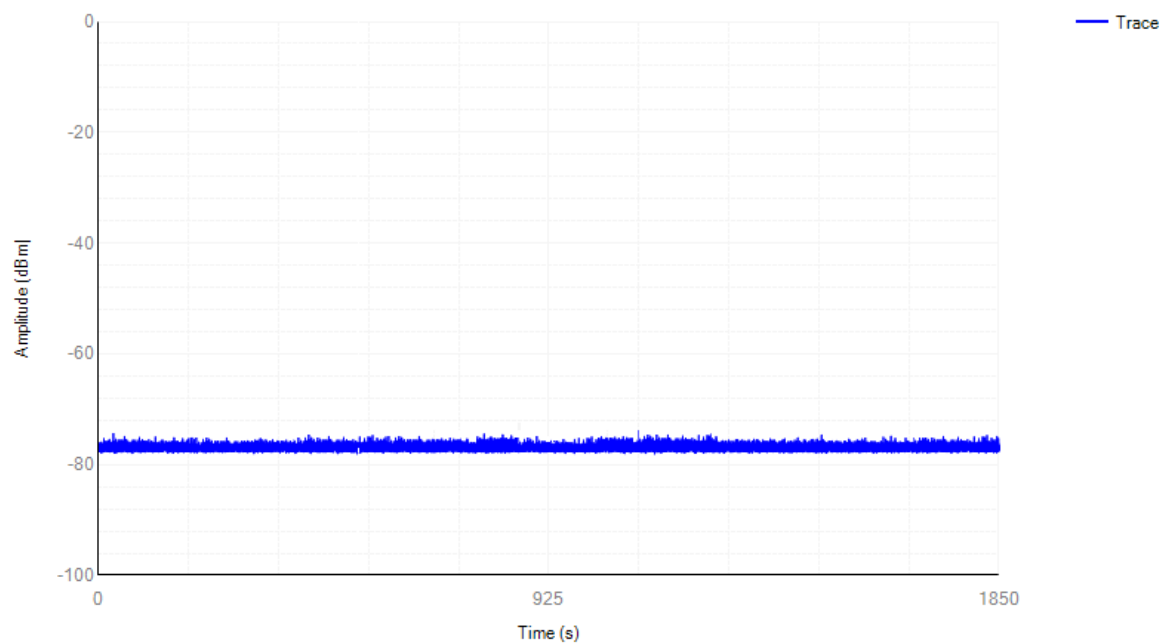
5320MHz a Non-Occupancy

Non-Occupancy period



5500MHz a Non-Occupancy

Non-Occupancy period

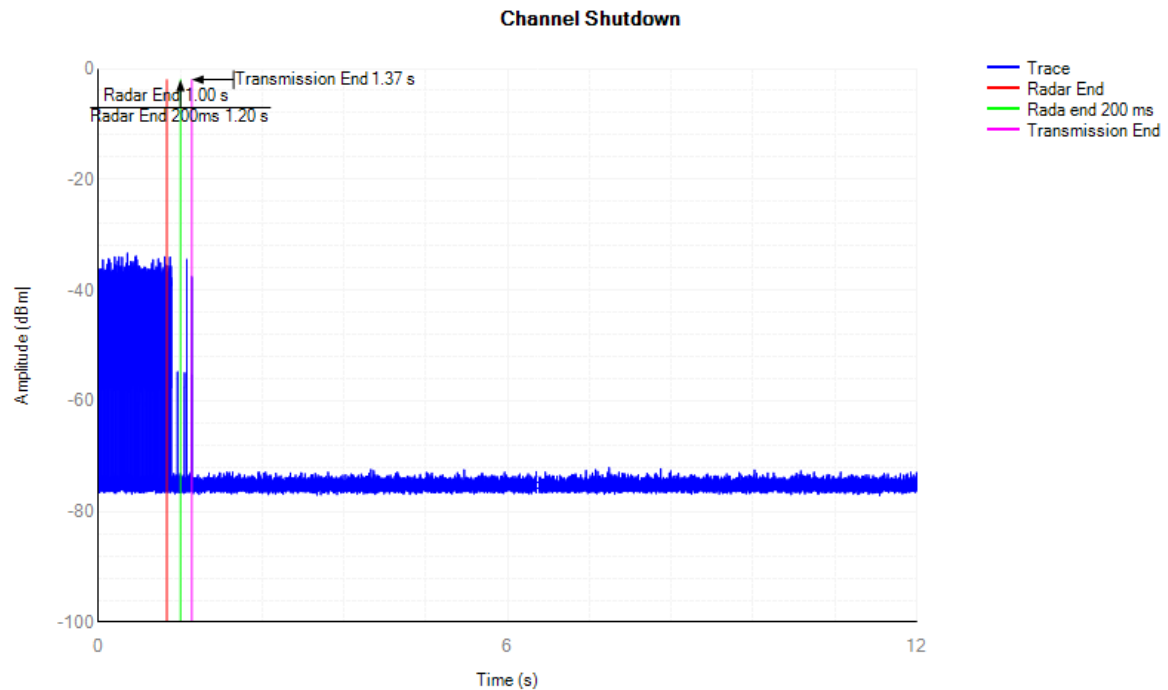


Shutdown Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5290	0.366	10	0.0096	0.26	0.0008	0.06	Pass
ac80	5530	0.3752	10	0.0052	0.26	0.0008	0.06	Pass

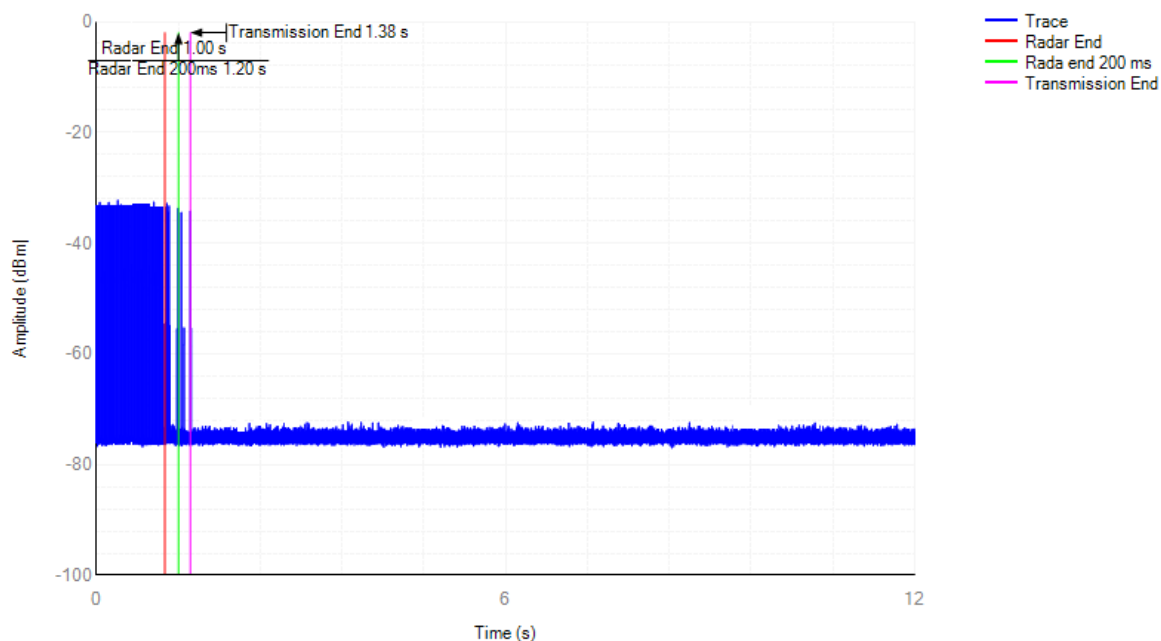
ax80	5290	0.366	10	0.0096	0.26	0.0008	0.06	Pass
ax80	5530	0.3752	10	0.0052	0.26	0.0008	0.06	Pass
n40	5310	0.53	10	0.0084	0.26	0.0036	0.06	Pass
n40	5510	0.4512	10	0.0072	0.26	0.0024	0.06	Pass
a	5320	0.4284	10	0.0084	0.26	0.002	0.06	Pass
a	5500	0.514	10	0.0092	0.26	0.0024	0.06	Pass

5290MHz ac80 Shutdown



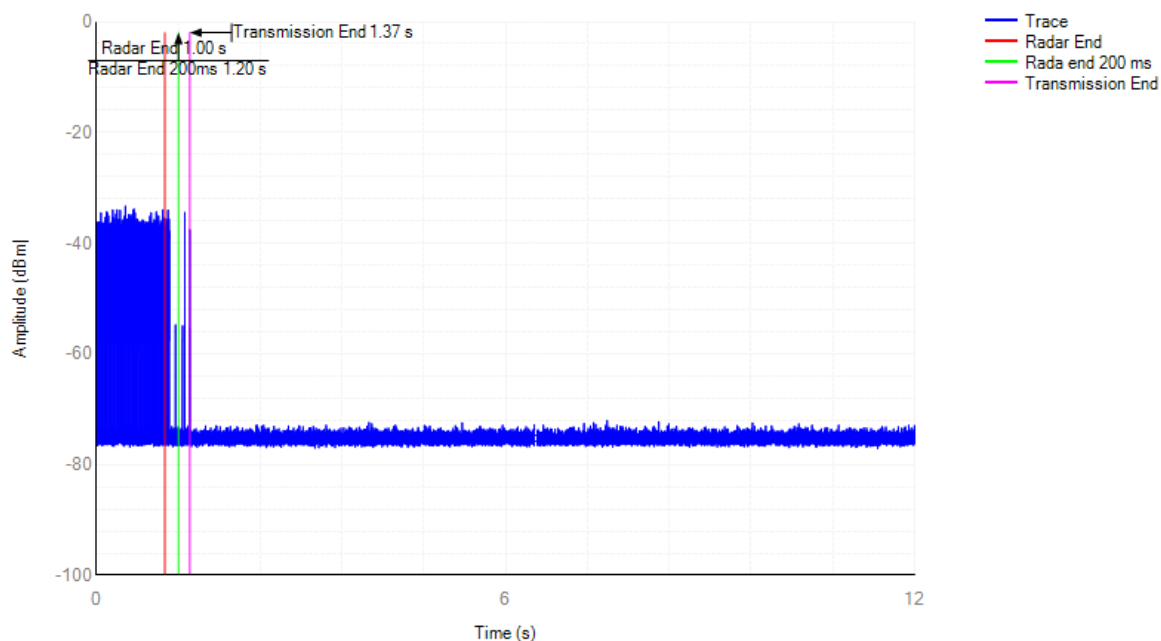
5530MHz ac80 Shutdown

Channel Shutdown



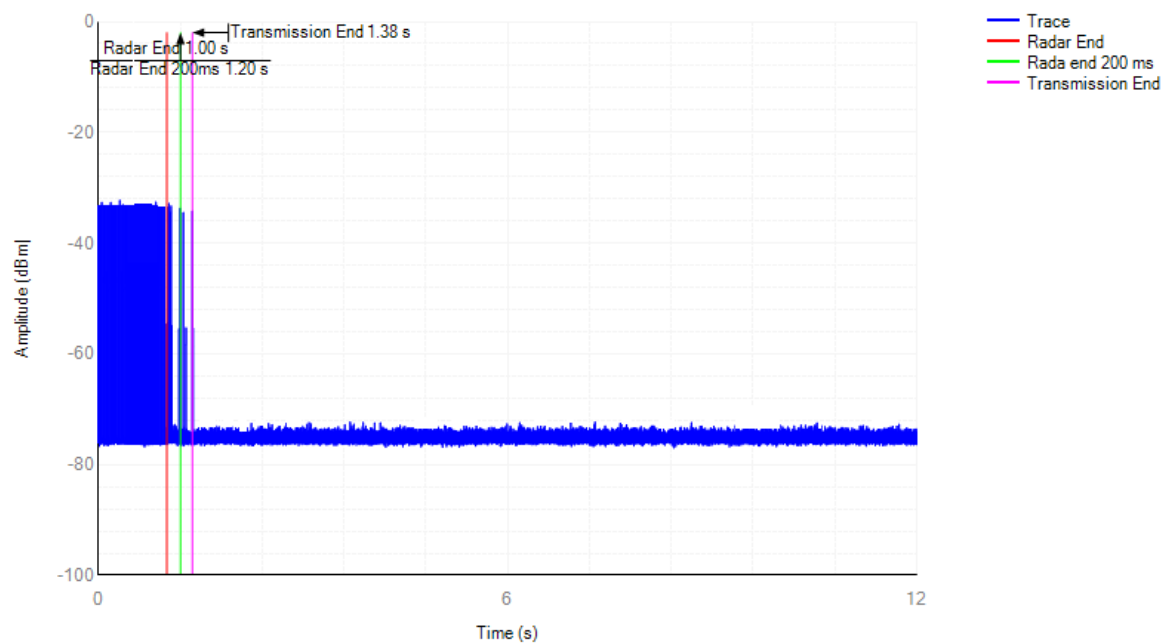
5290MHz ax80 Shutdown

Channel Shutdown



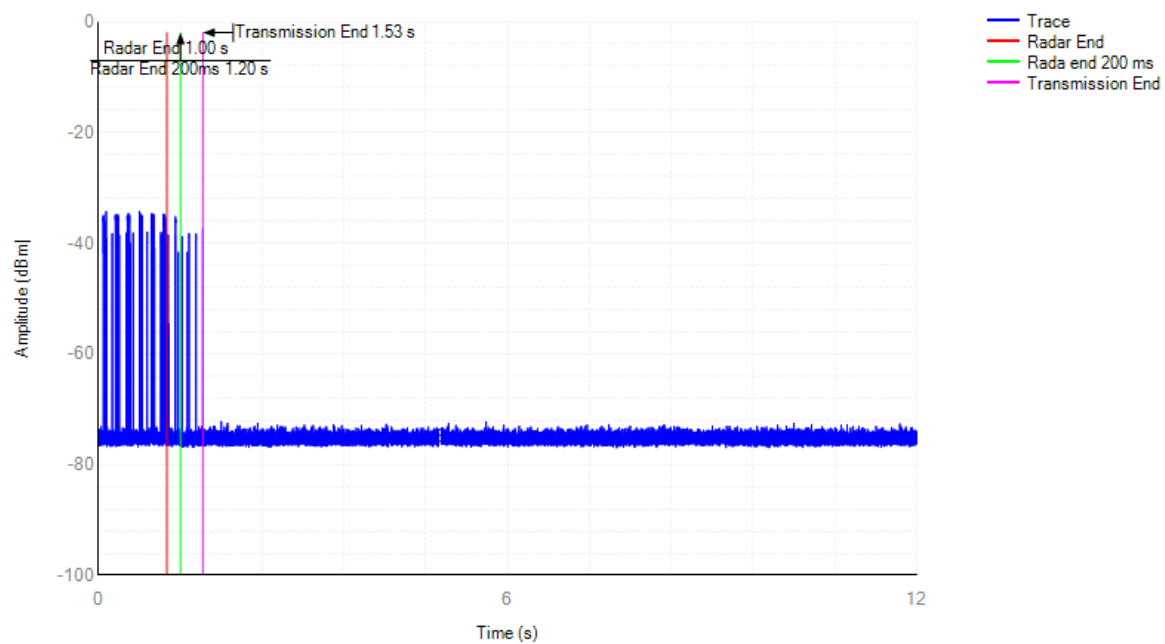
5530MHz ax80 Shutdown

Channel Shutdown



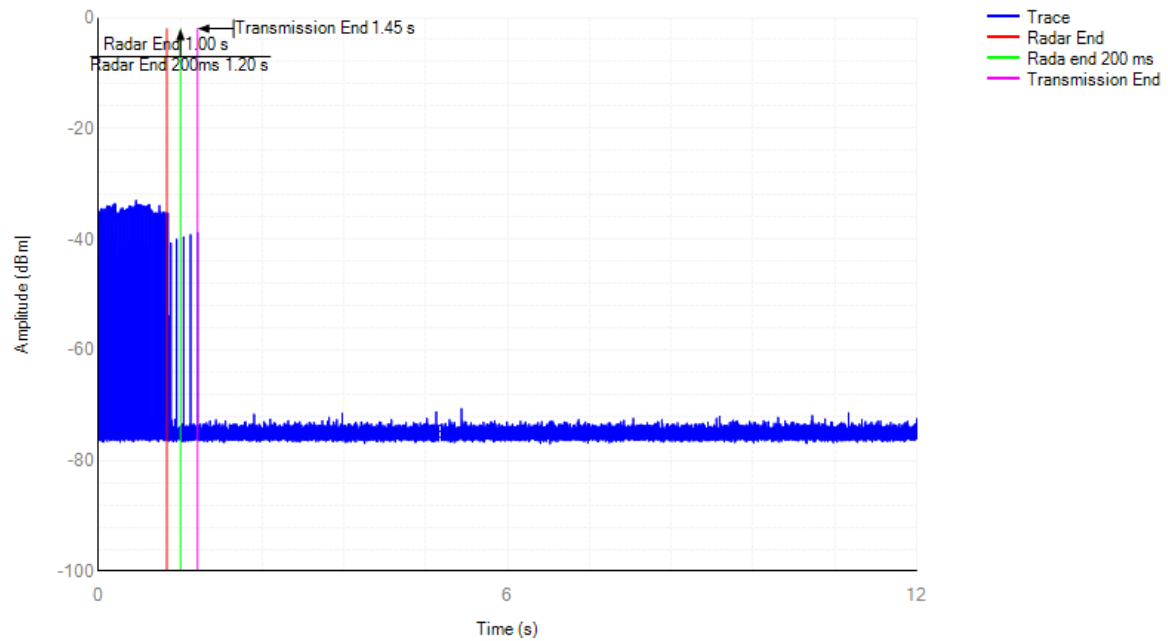
5310MHz n40 Shutdown

Channel Shutdown



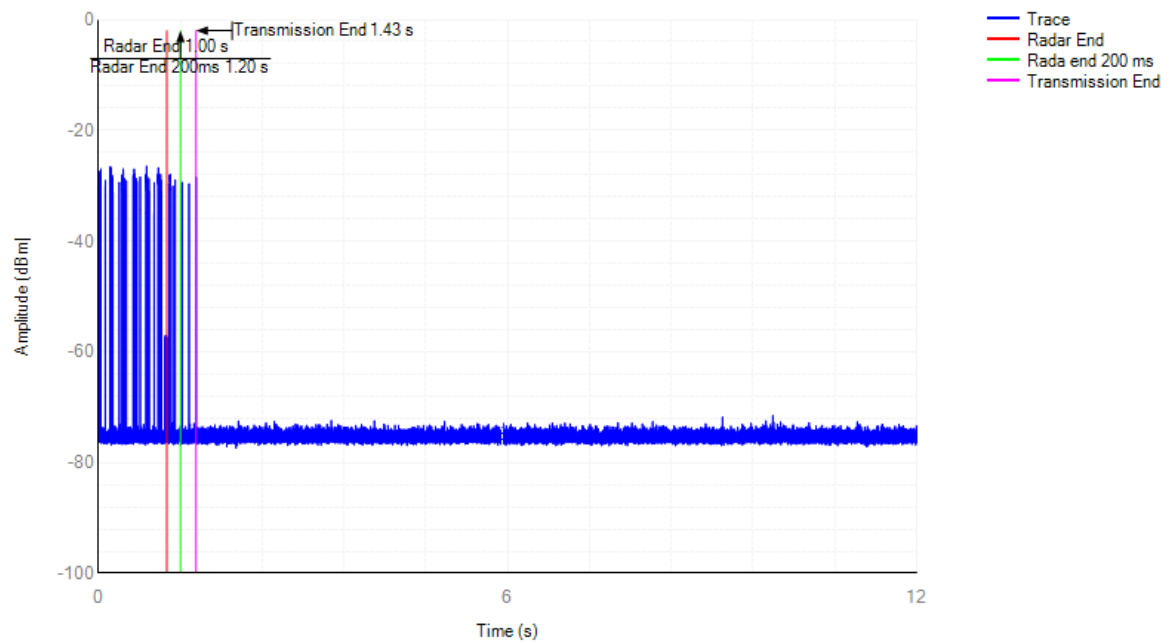
5510MHz n40 Shutdown

Channel Shutdown



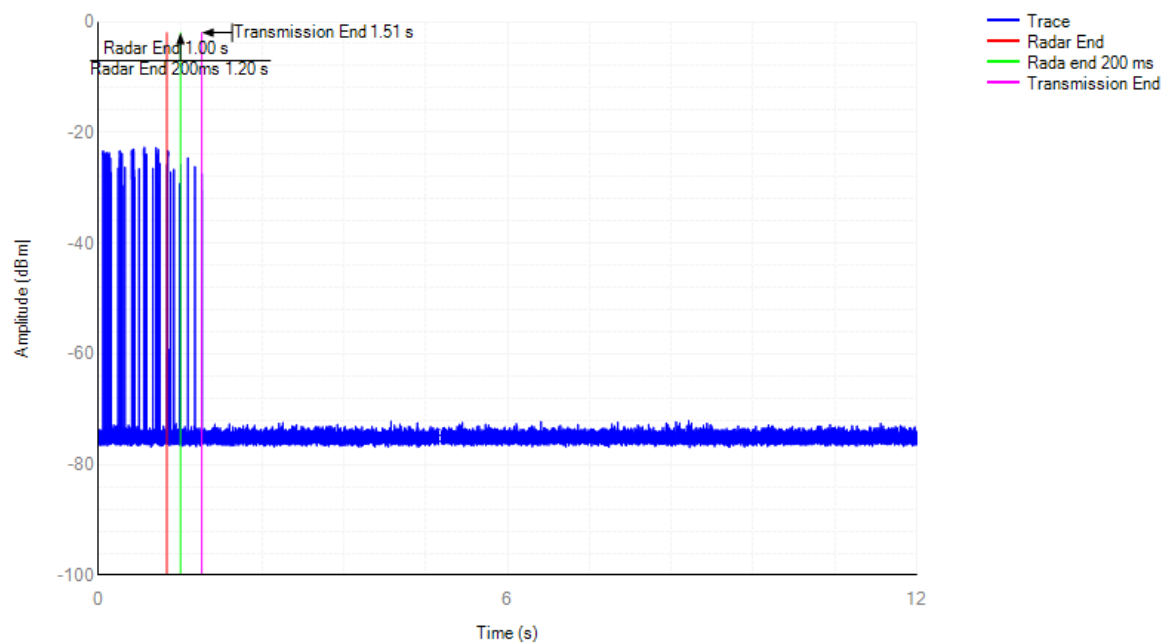
5320MHz a Shutdown

Channel Shutdown



5500MHz a Shutdown

Channel Shutdown



END