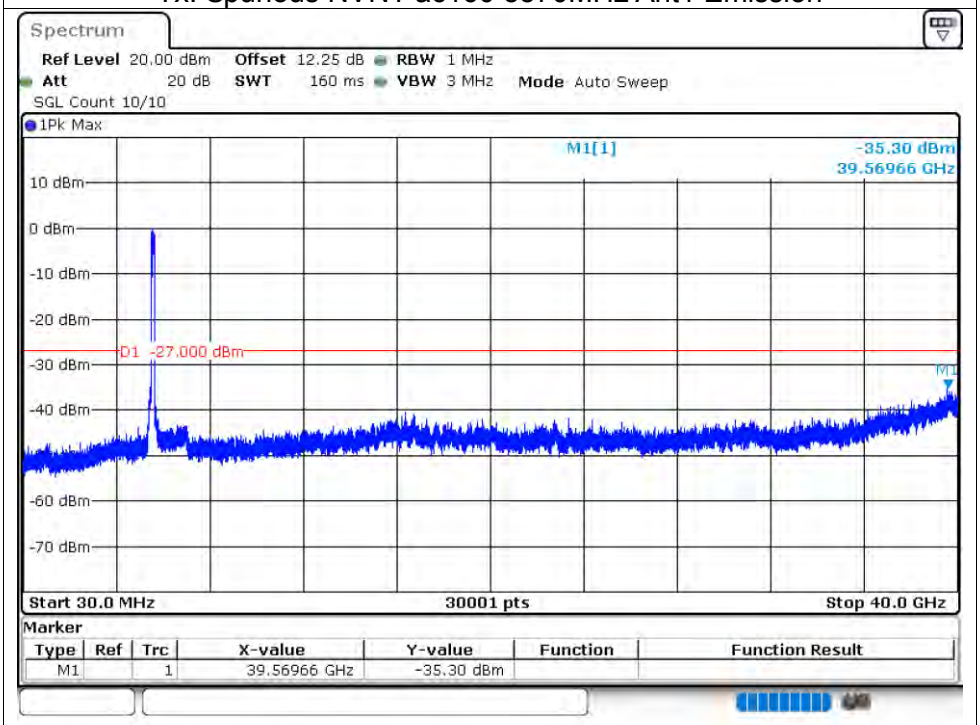
Tx. Spurious NVNT ac160 5570MHz Ant1 Emission



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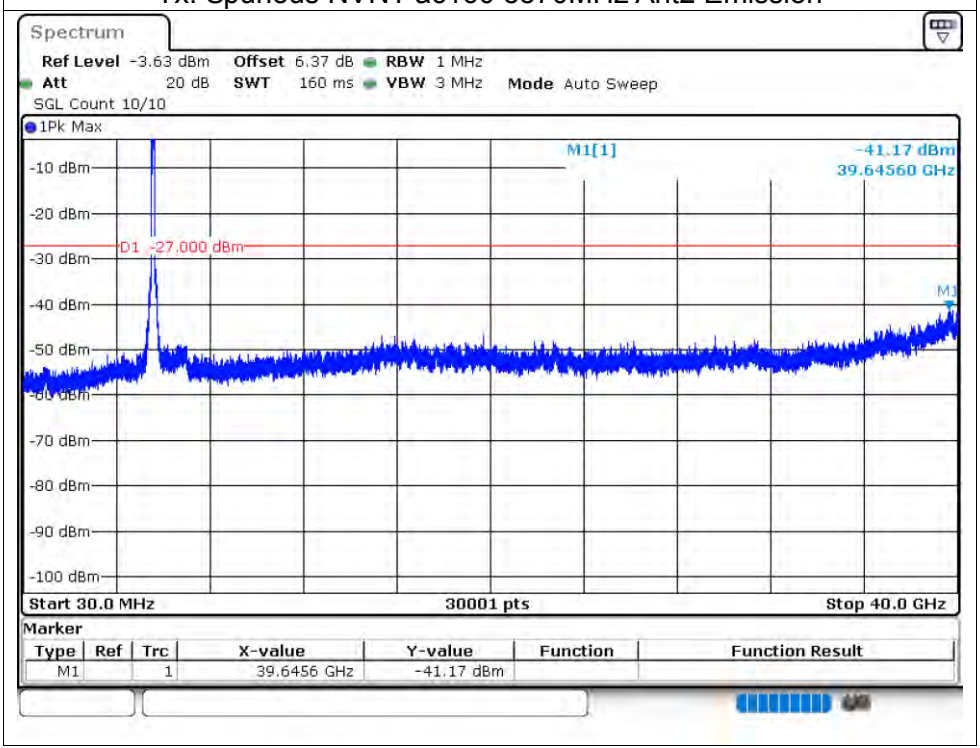
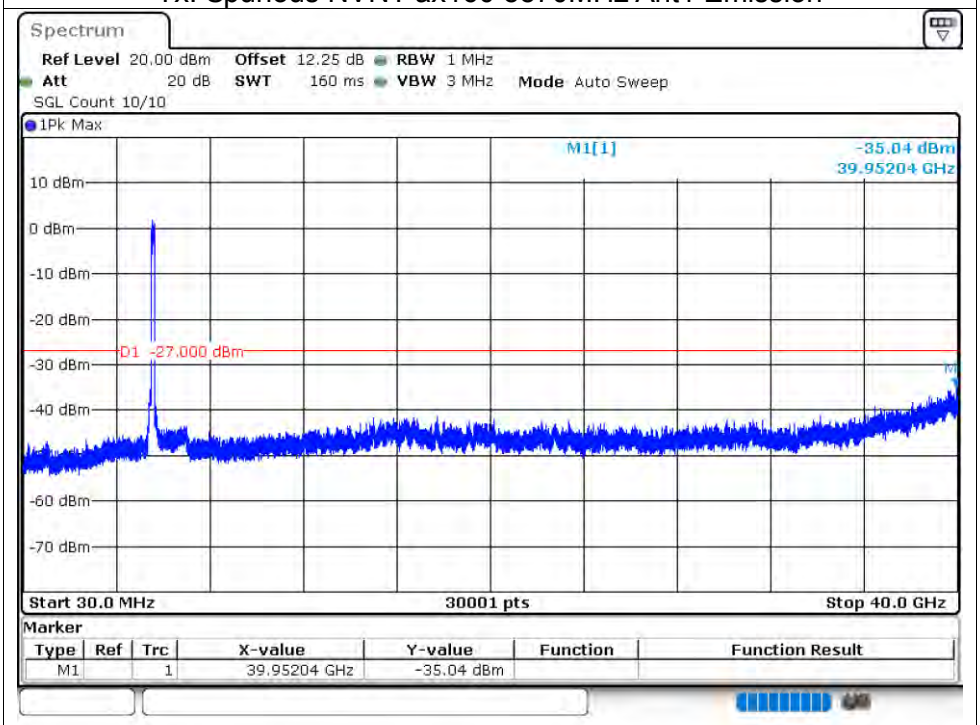


Tx. Spurious NVNT ax160 5570MHz Ant1 Emission



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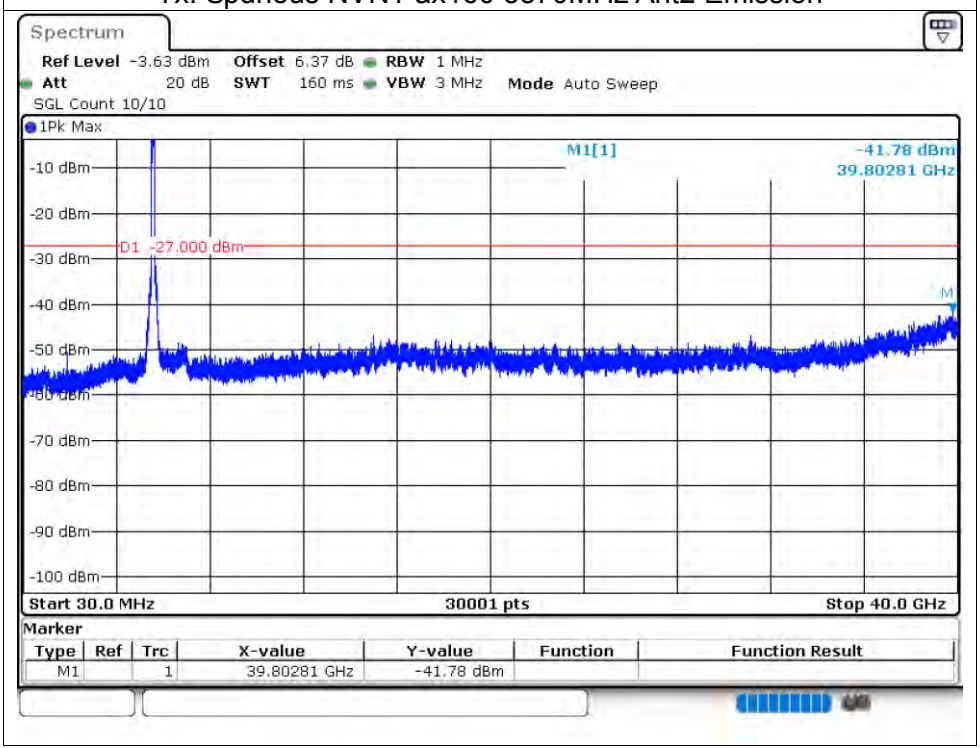

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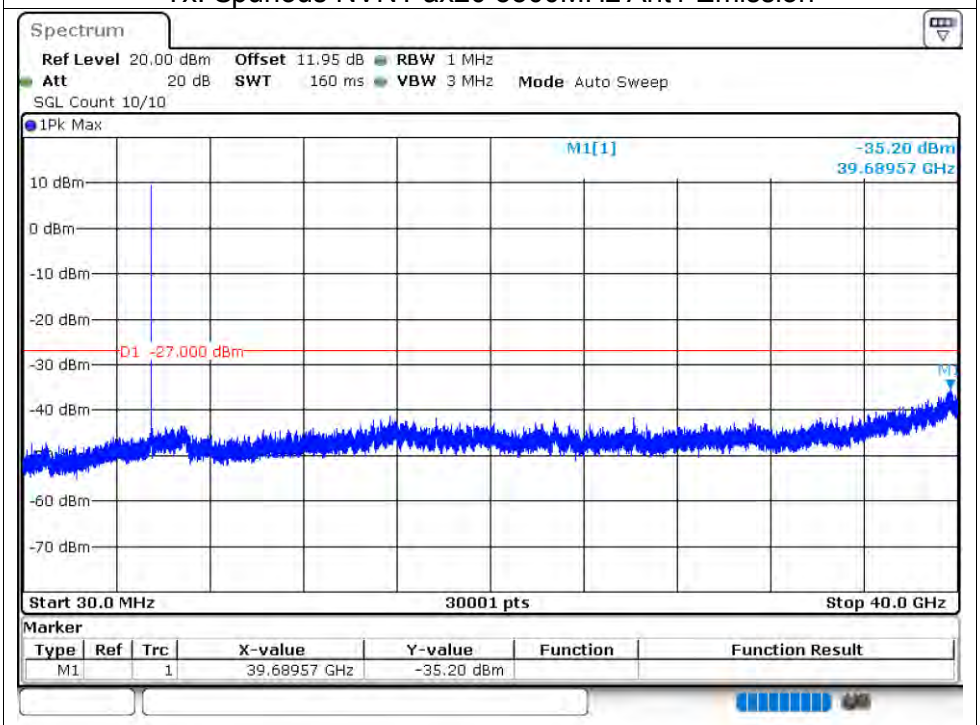

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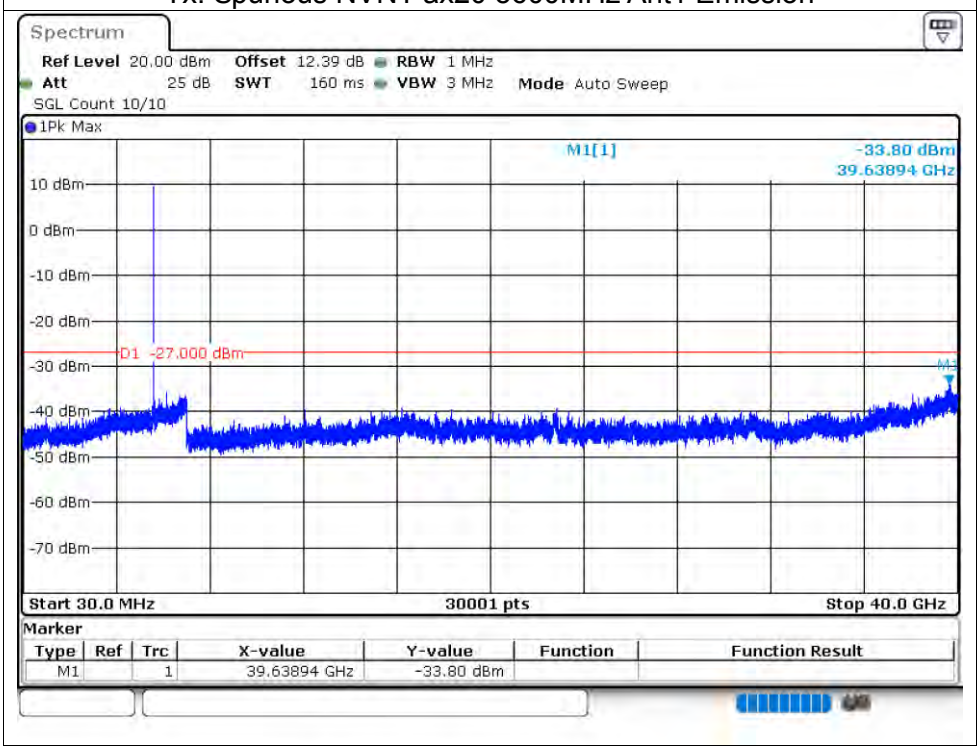

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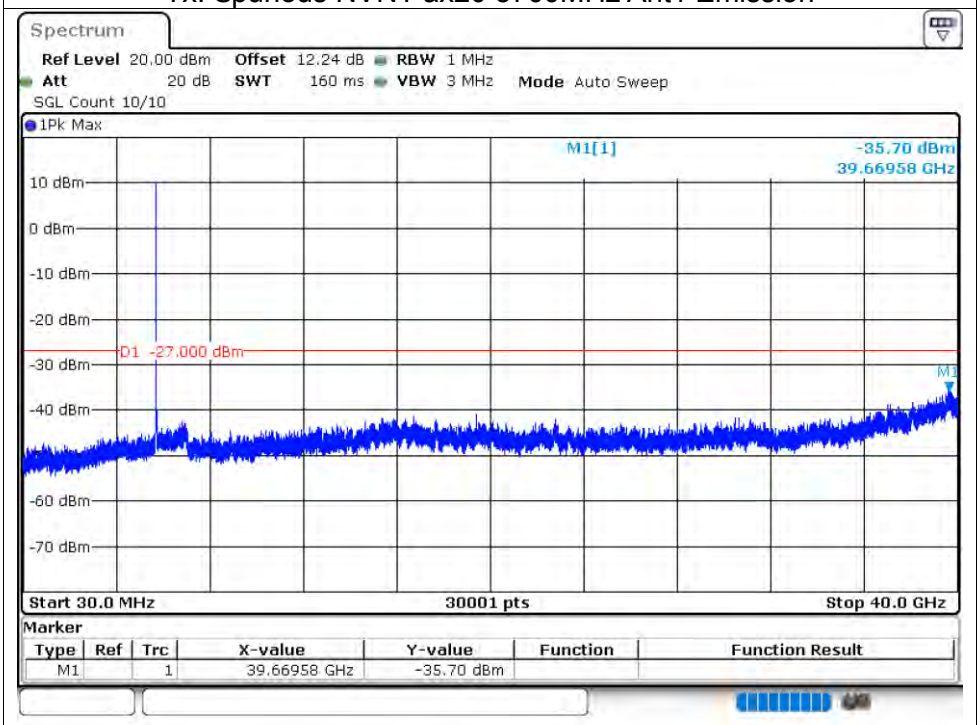

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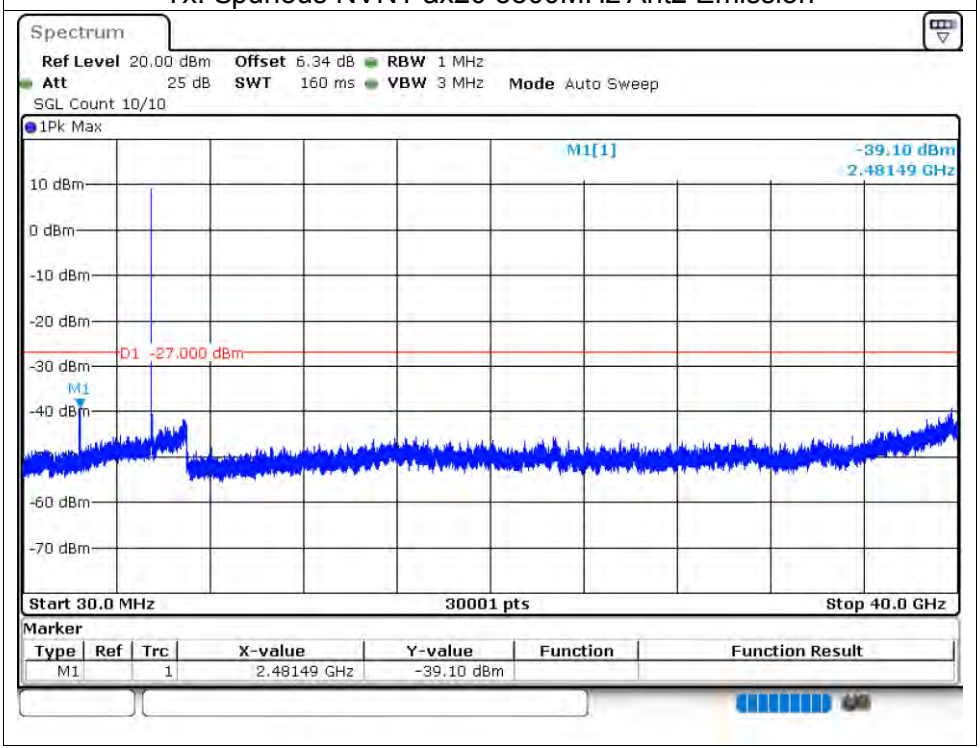

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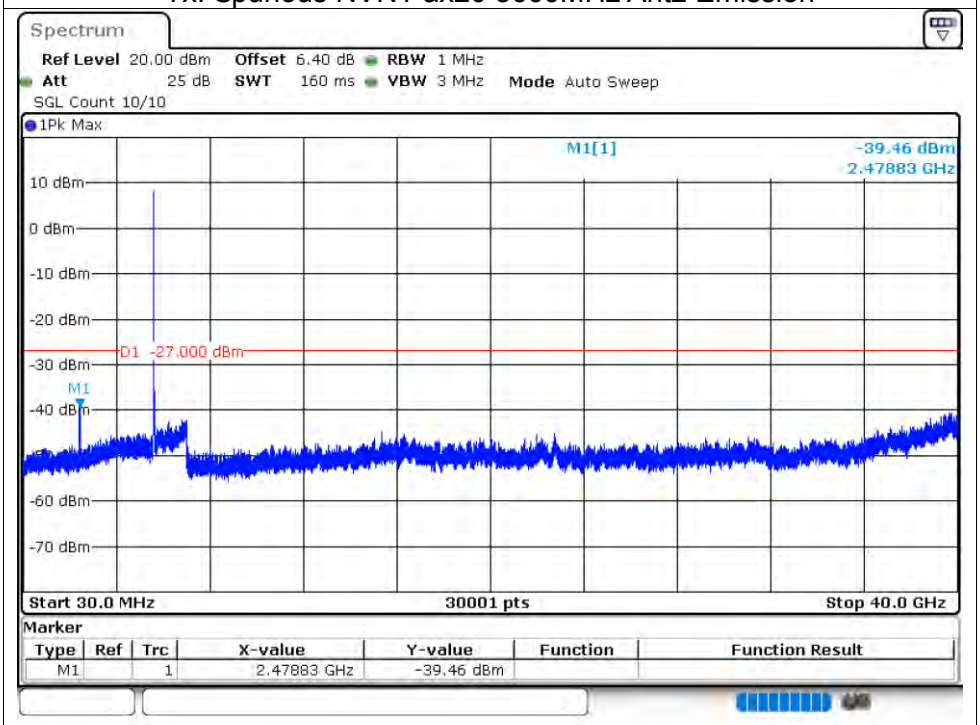

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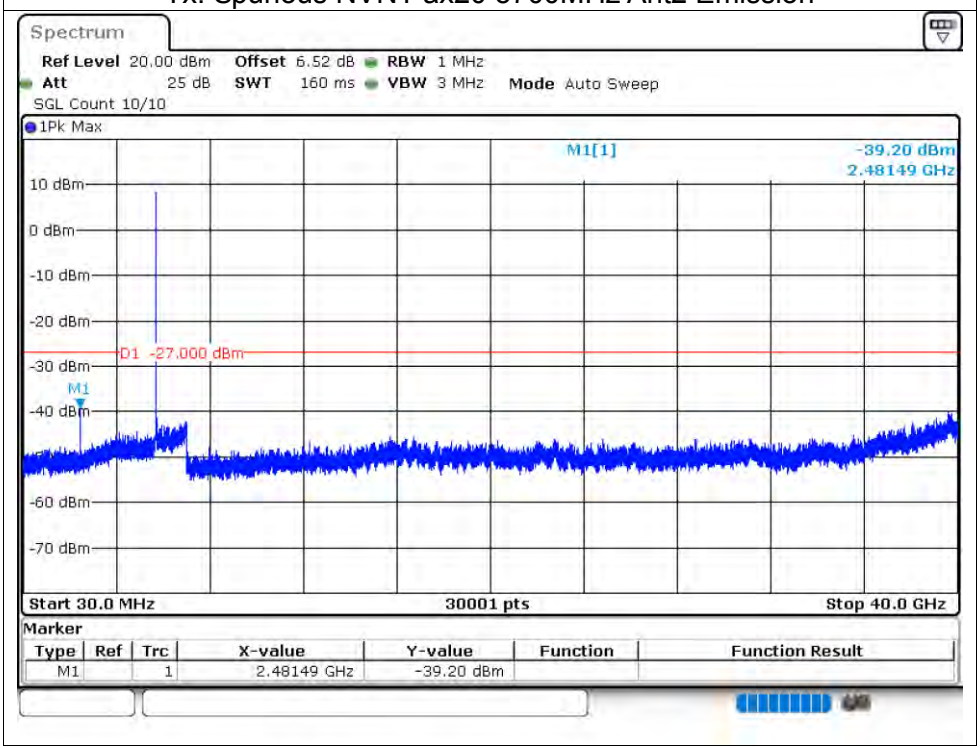

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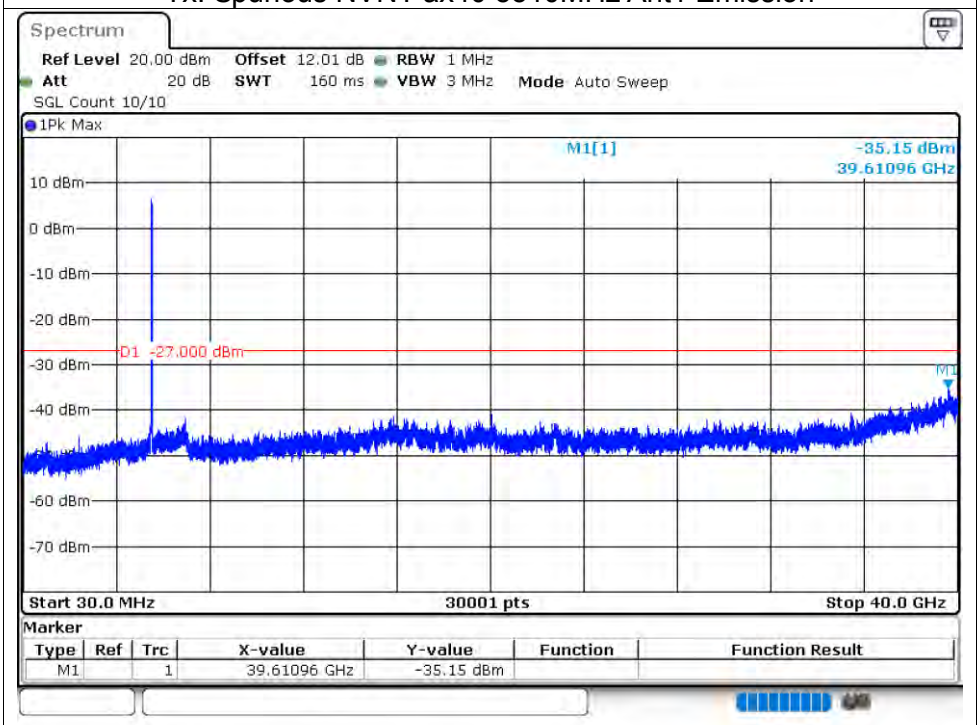

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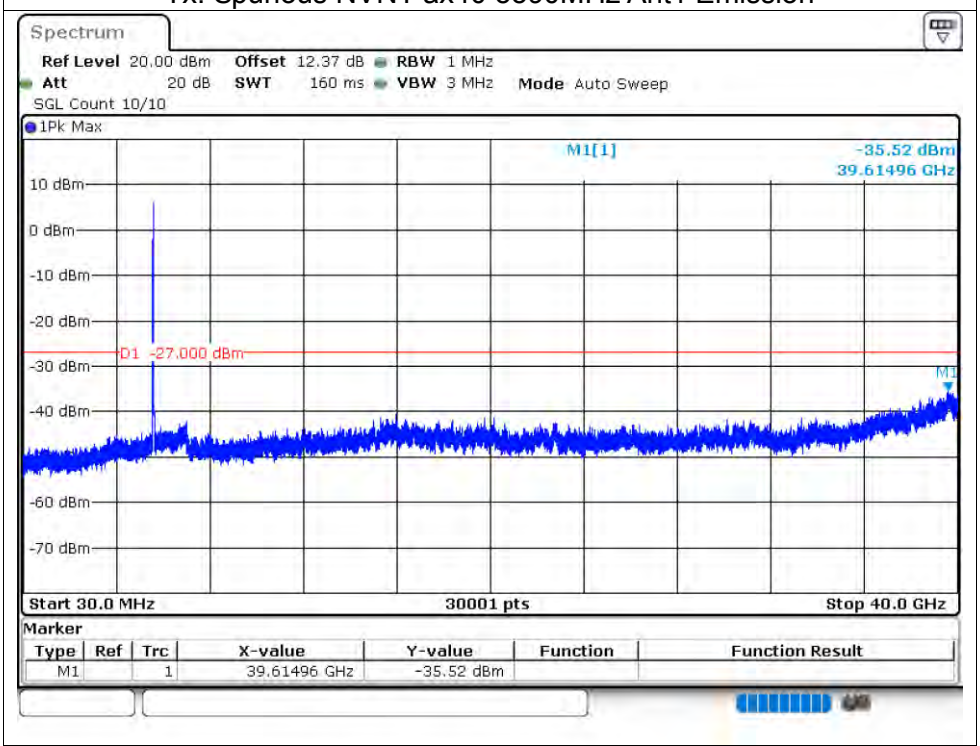
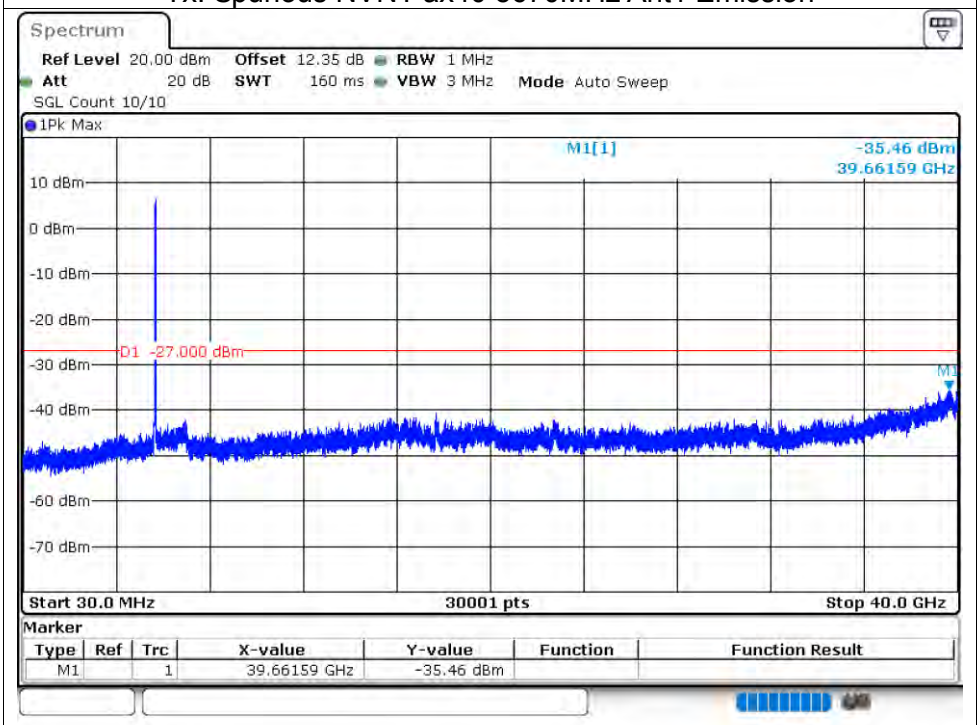


Tx. Spurious NVNT ax40 5670MHz Ant1 Emission



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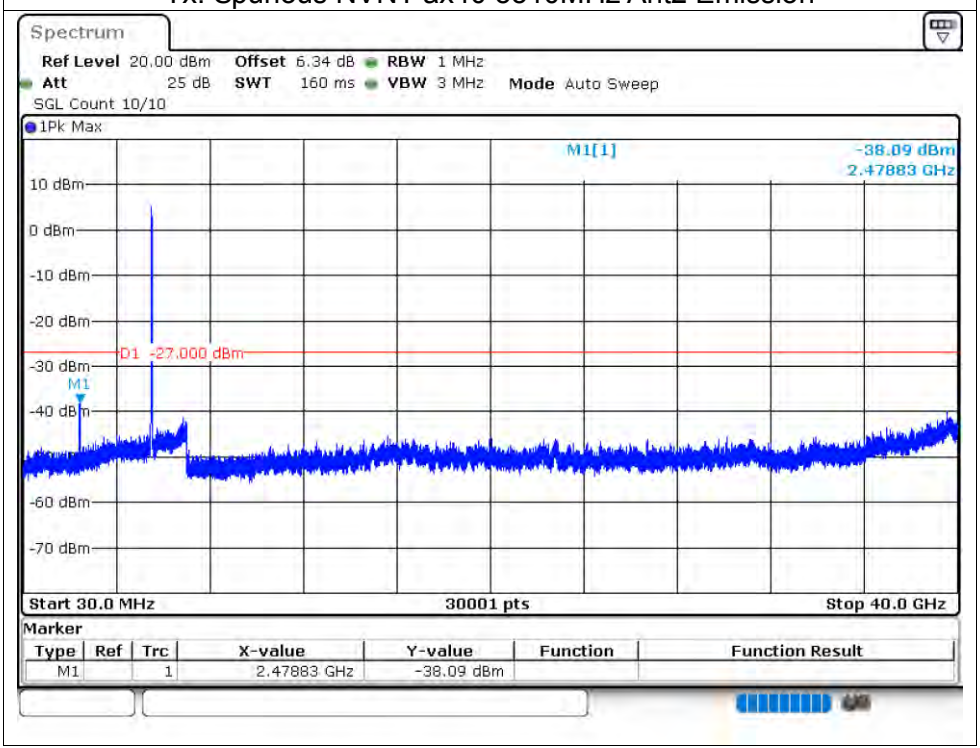

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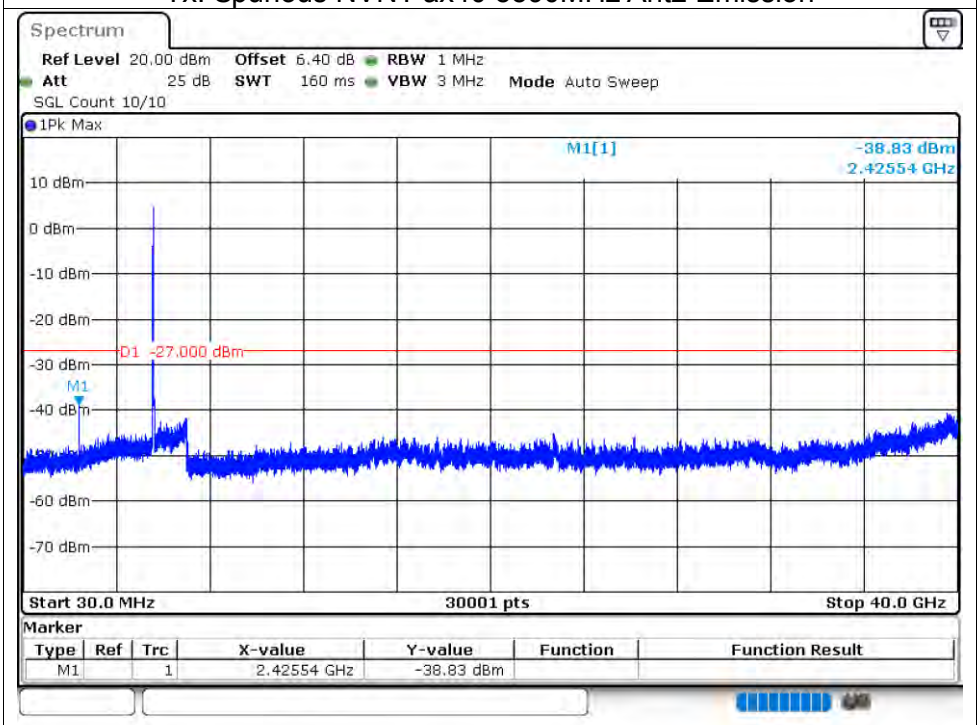
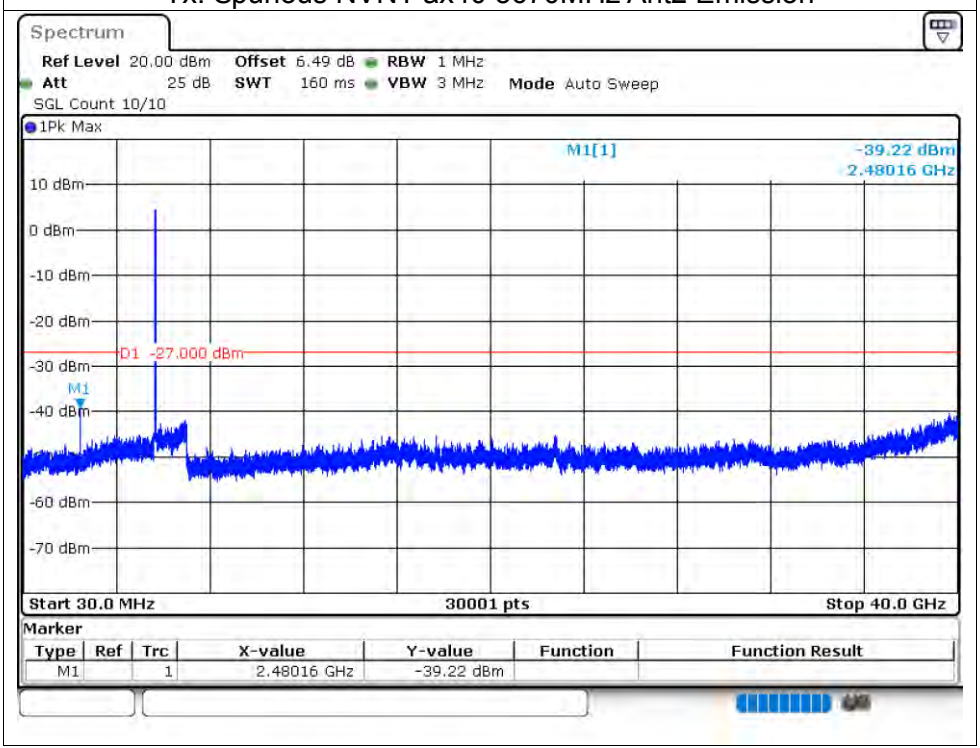


Tx. Spurious NVNT ax40 5670MHz Ant2 Emission



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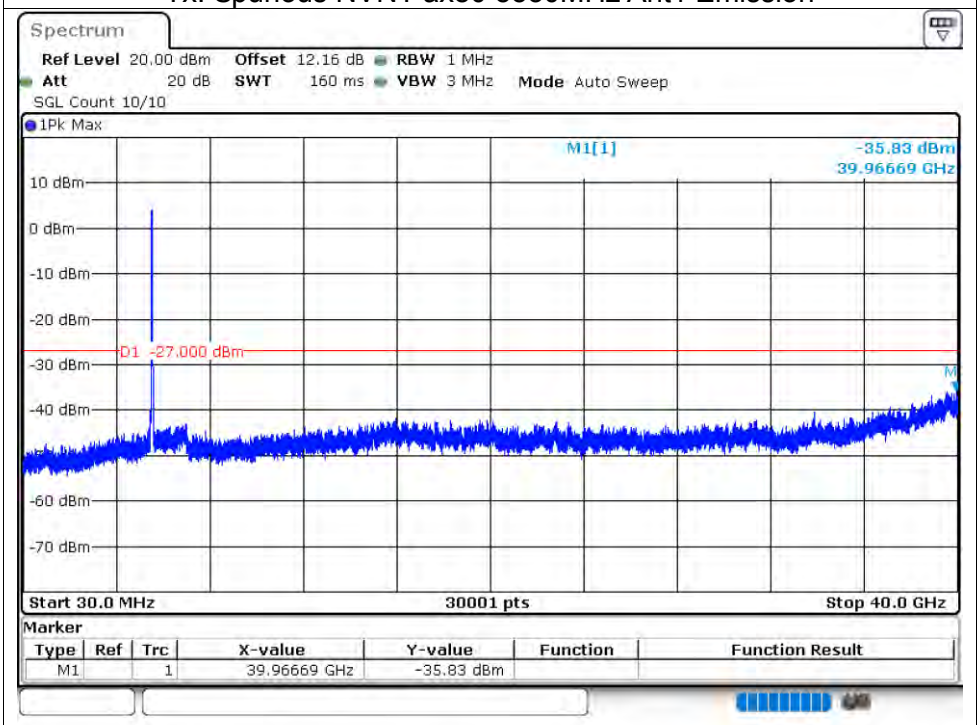

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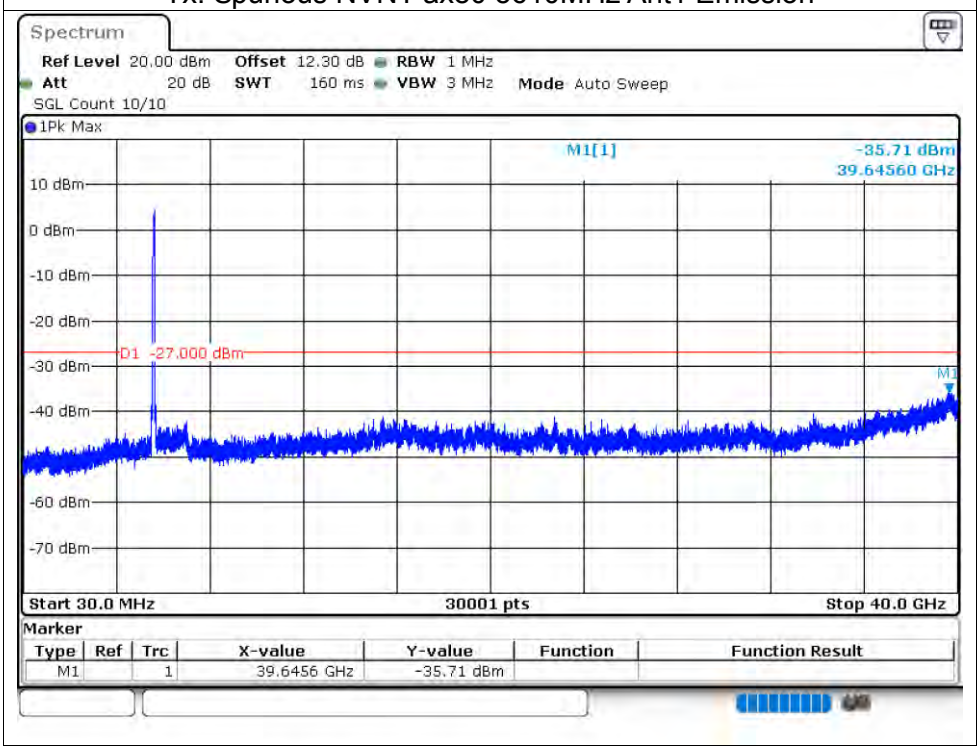

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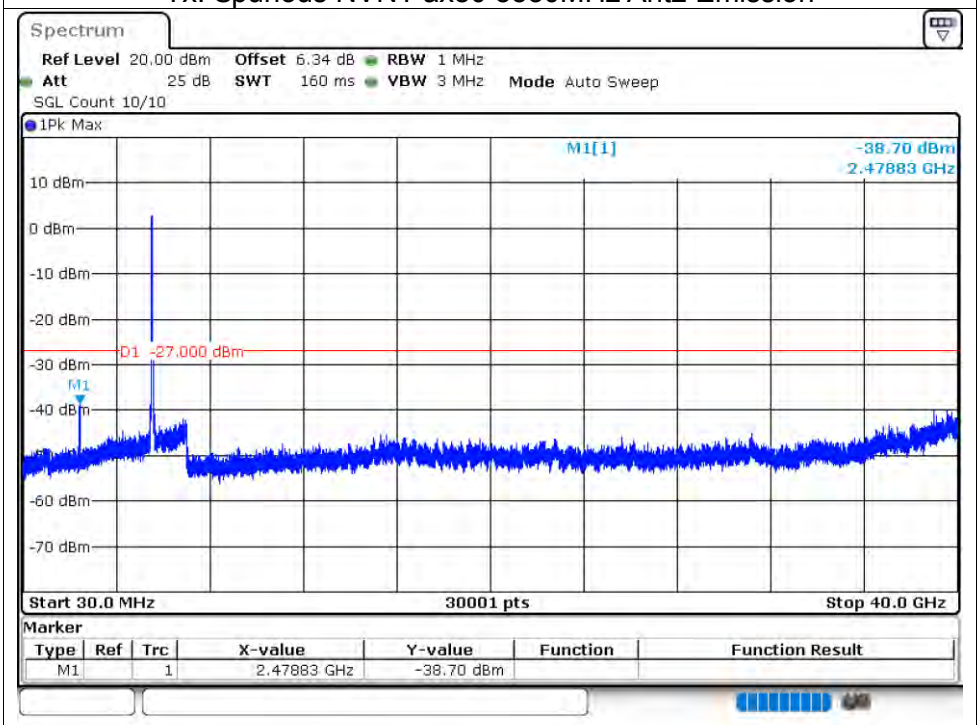

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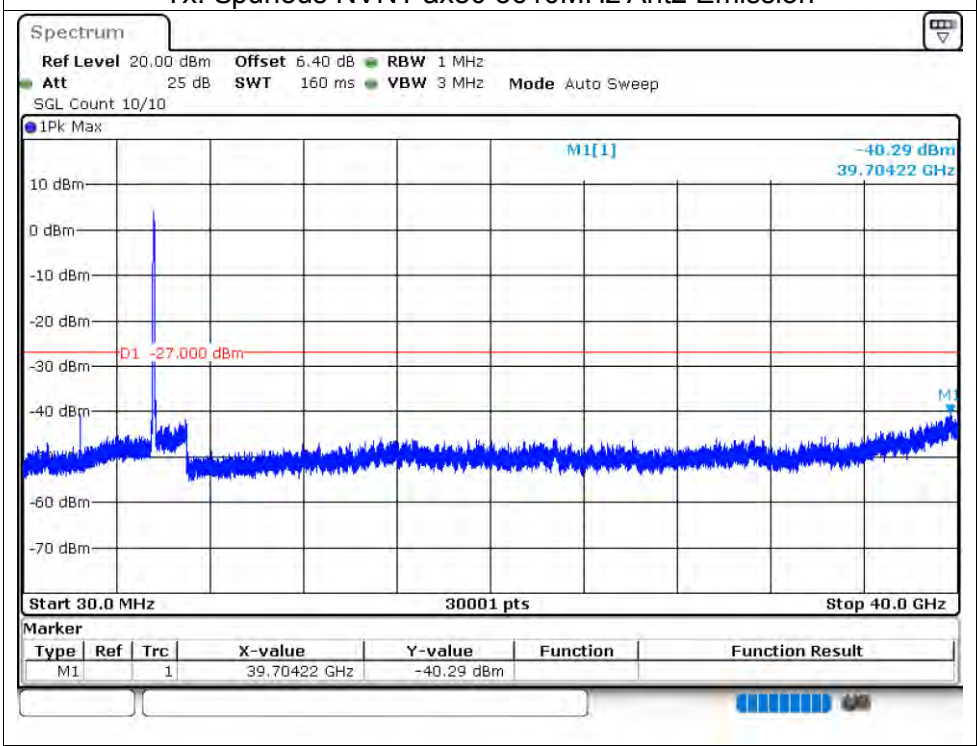


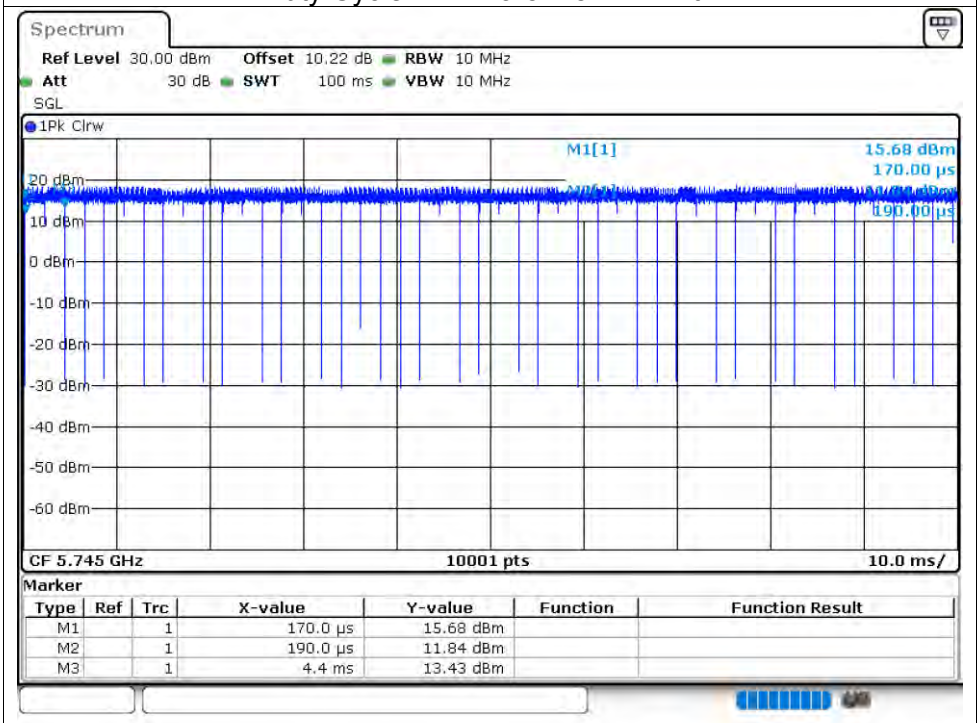
7.4 5.8G

7.4.1 DUTY CYCLE

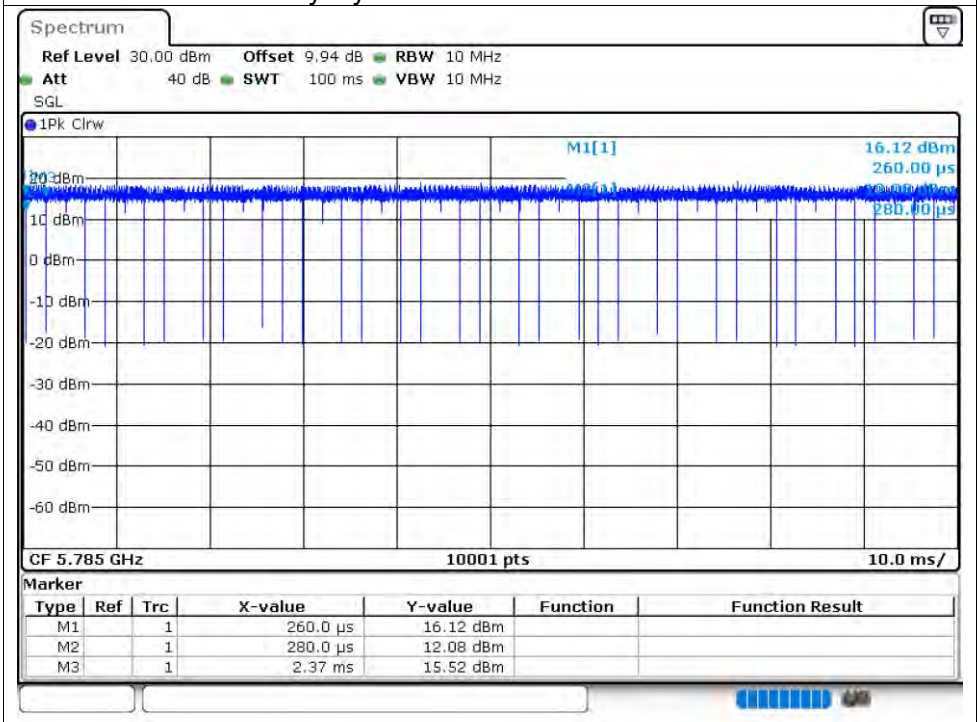
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	99.67	0.01	0.24
NVNT	a	5785	Ant1	99.67	0.01	0.48
NVNT	a	5825	Ant1	99.68	0.01	0.24
NVNT	a	5745	Ant2	99.67	0.01	0.48
NVNT	a	5785	Ant2	99.68	0.01	0.48
NVNT	a	5825	Ant2	99.66	0.01	0.48
NVNT	n20	5745	Ant1	99.89	0	0.09
NVNT	n20	5785	Ant1	99.91	0	0.09
NVNT	n20	5825	Ant1	99.87	0.01	0.18
NVNT	n20	5745	Ant2	99.89	0	0.09
NVNT	n20	5785	Ant2	99.87	0.01	0.09
NVNT	n20	5825	Ant2	99.91	0	0.09
NVNT	n40	5755	Ant1	99.9	0	0.09
NVNT	n40	5795	Ant1	99.88	0.01	0.09
NVNT	n40	5755	Ant2	99.89	0	0.09
NVNT	n40	5795	Ant2	99.88	0.01	0.09
NVNT	ac20	5745	Ant1	99.85	0.01	0.18
NVNT	ac20	5785	Ant1	99.89	0	0.18
NVNT	ac20	5825	Ant1	99.88	0.01	0.18
NVNT	ac20	5745	Ant2	99.84	0.01	0.09
NVNT	ac20	5785	Ant2	99.82	0.01	0.18
NVNT	ac20	5825	Ant2	99.82	0.01	0.18
NVNT	ac40	5755	Ant1	99.89	0	0.09
NVNT	ac40	5795	Ant1	99.88	0.01	0.09
NVNT	ac40	5755	Ant2	99.89	0	0.09
NVNT	ac40	5795	Ant2	99.87	0.01	0.18
NVNT	ac80	5775	Ant1	99.88	0.01	0.09
NVNT	ac80	5775	Ant2	99.89	0	0.09
NVNT	ax20	5745	Ant1	99.89	0	0.18
NVNT	ax20	5785	Ant1	99.88	0.01	0.06
NVNT	ax20	5825	Ant1	99.88	0.01	0.18
NVNT	ax20	5745	Ant2	99.88	0.01	0.09
NVNT	ax20	5785	Ant2	99.88	0.01	0.06
NVNT	ax20	5825	Ant2	99.88	0.01	0.18
NVNT	ax40	5755	Ant1	99.88	0.01	0.18
NVNT	ax40	5795	Ant1	99.89	0	0.18
NVNT	ax40	5755	Ant2	99.98	0	0.04
NVNT	ax40	5795	Ant2	99.89	0	0.18
NVNT	ax80	5775	Ant1	99.92	0	0.18
NVNT	ax80	5775	Ant2	99.88	0.01	0.18

Test Graphs

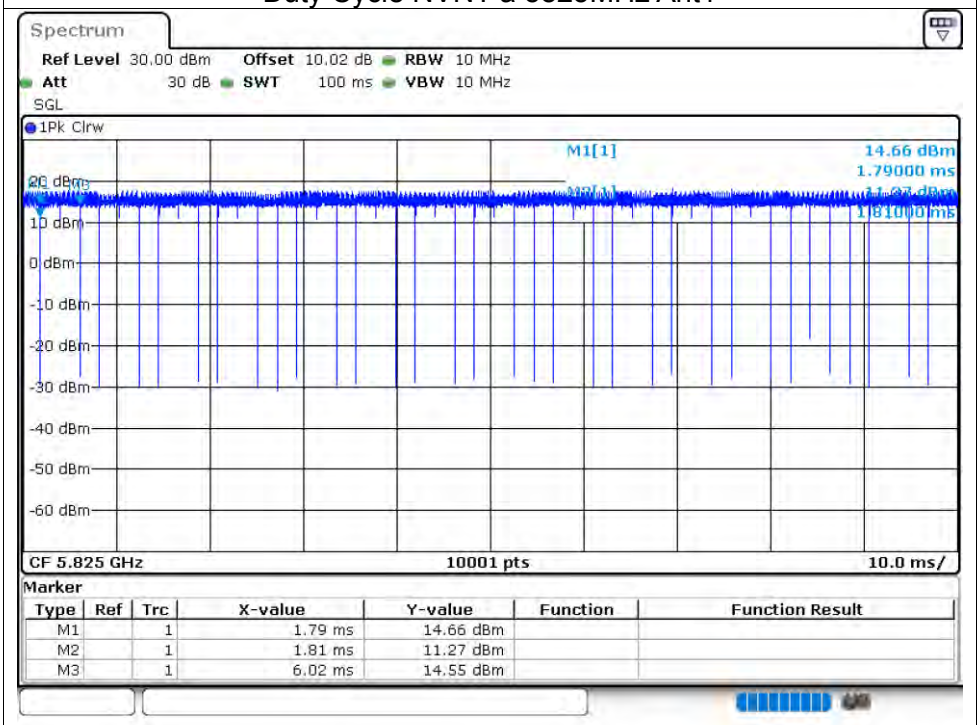
Duty Cycle NVNT a 5745MHz Ant1



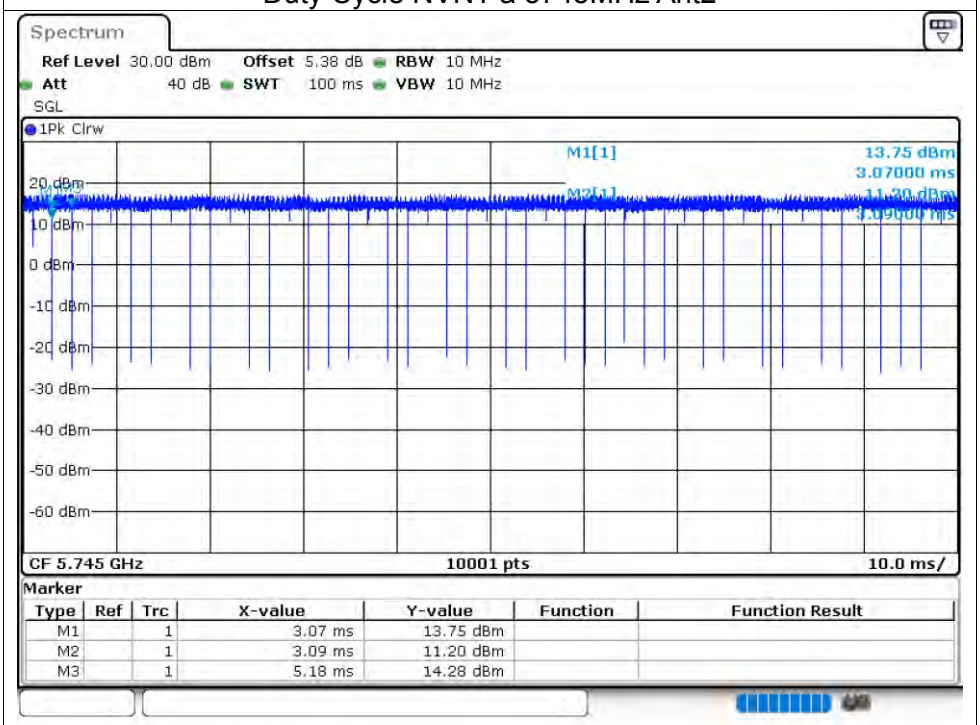
Duty Cycle NVNT a 5785MHz Ant1



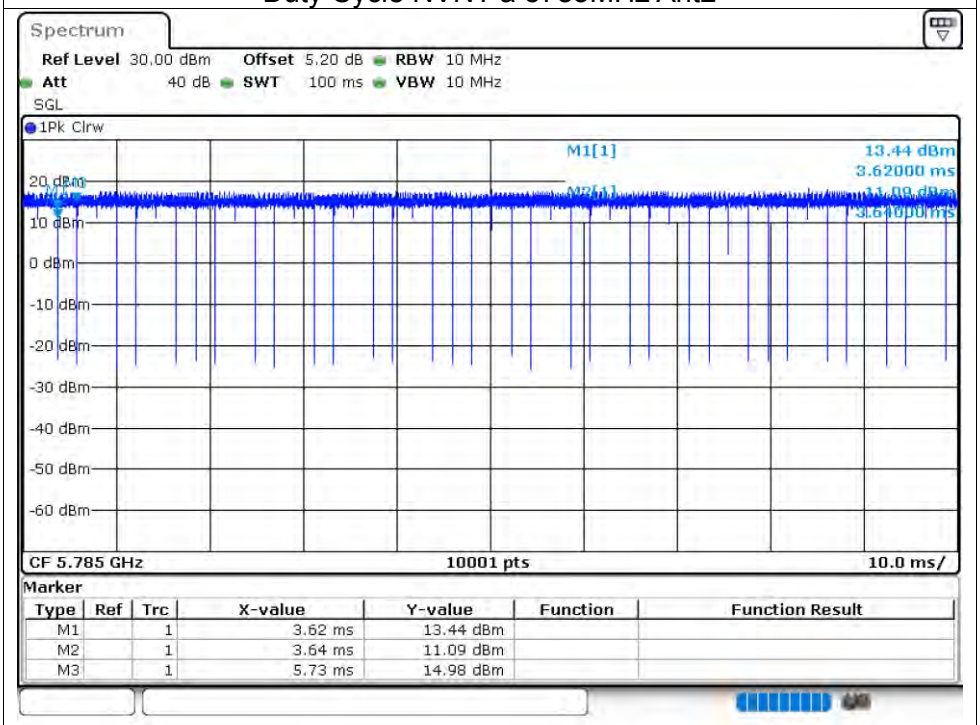
Duty Cycle NVNT a 5825MHz Ant1



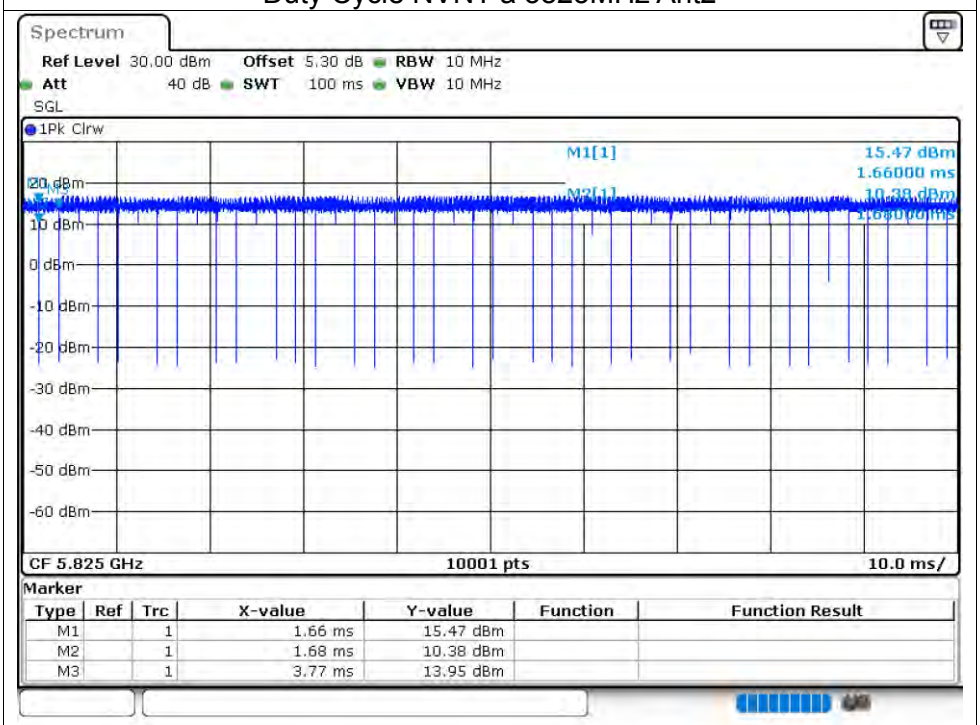
Duty Cycle NVNT a 5745MHz Ant2



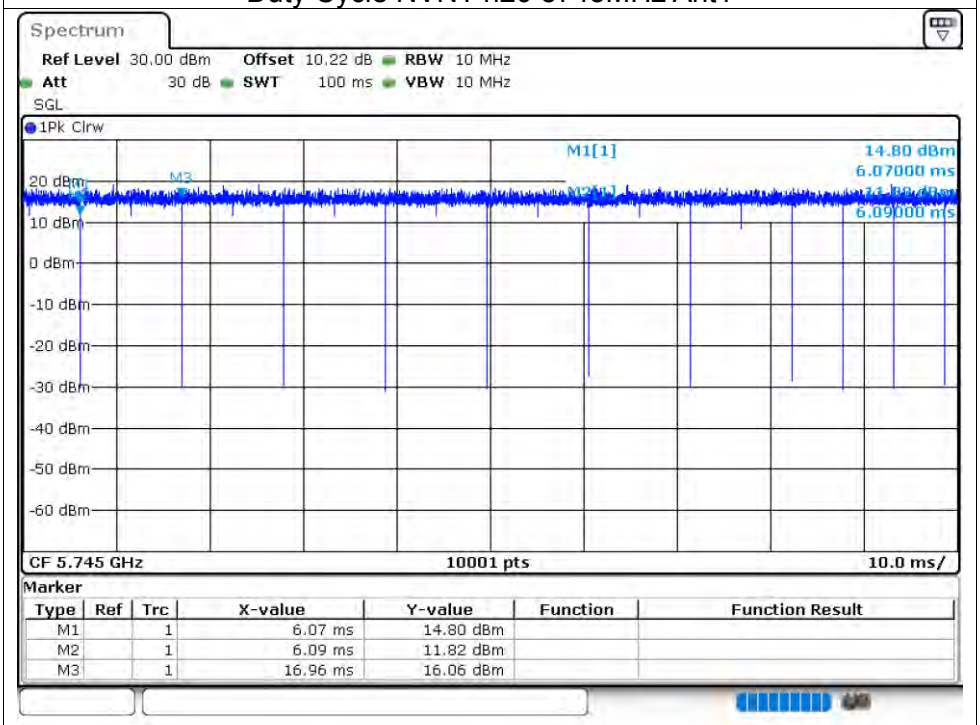
Duty Cycle NVNT a 5785MHz Ant2



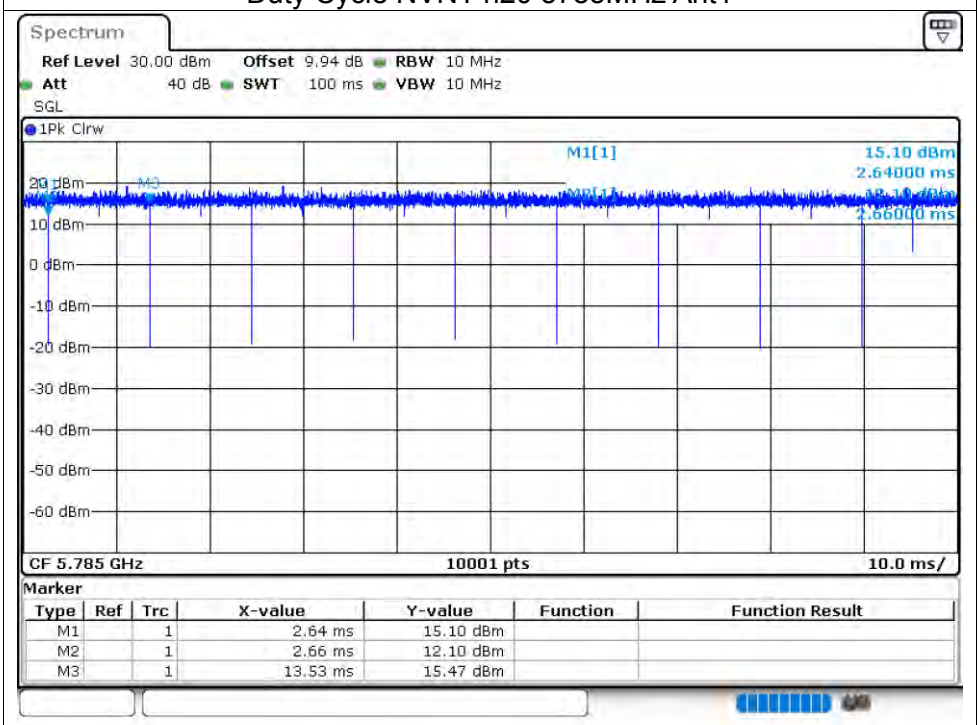
Duty Cycle NVNT a 5825MHz Ant2



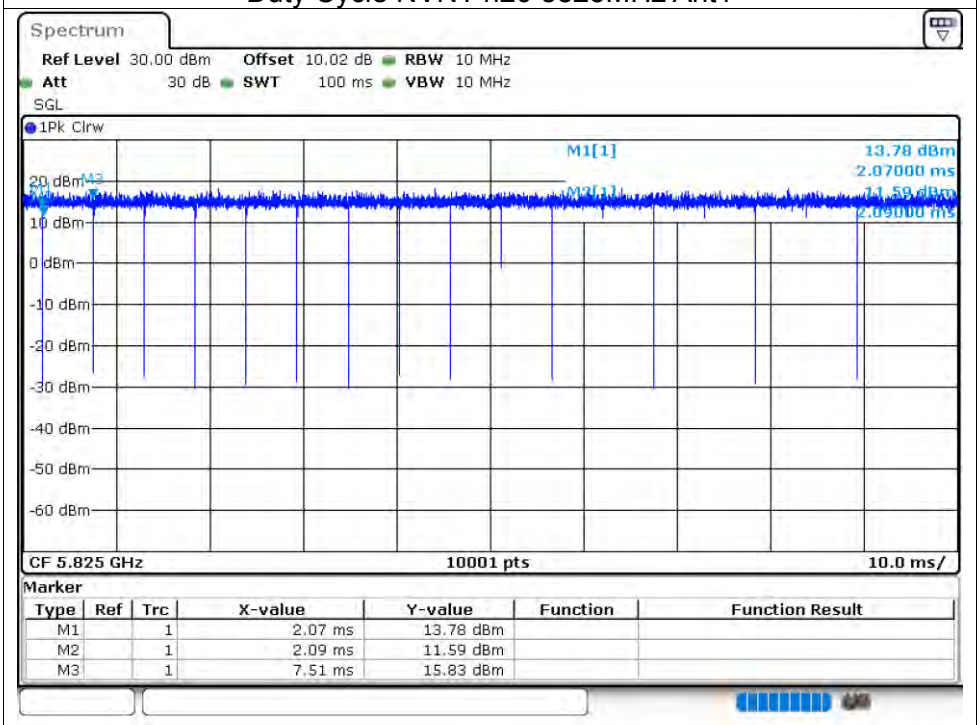
Duty Cycle NVNT n20 5745MHz Ant1



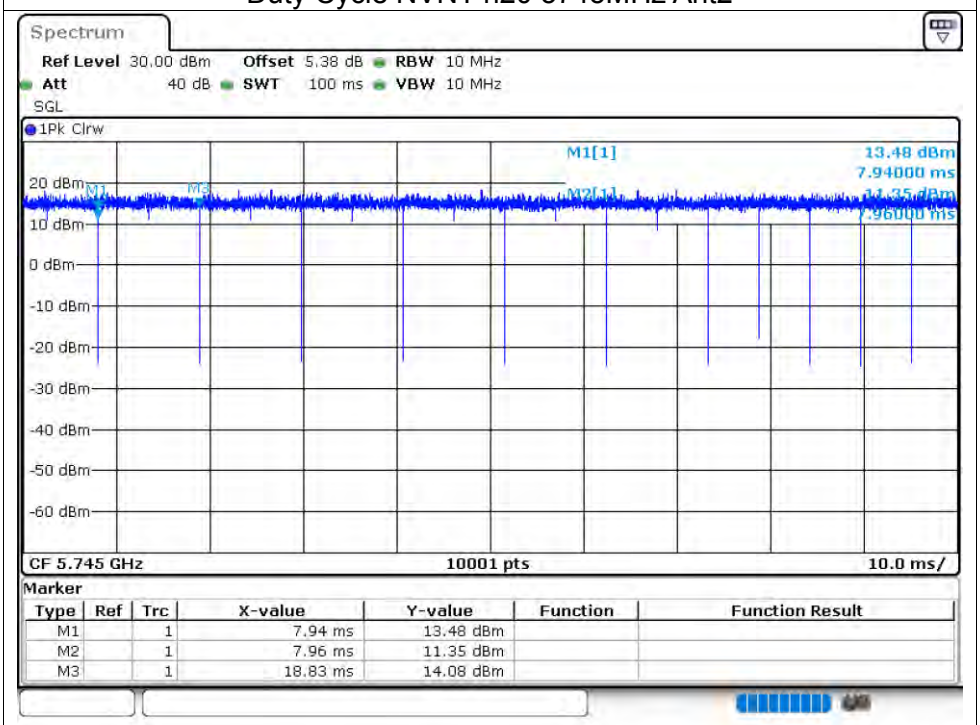
Duty Cycle NVNT n20 5785MHz Ant1



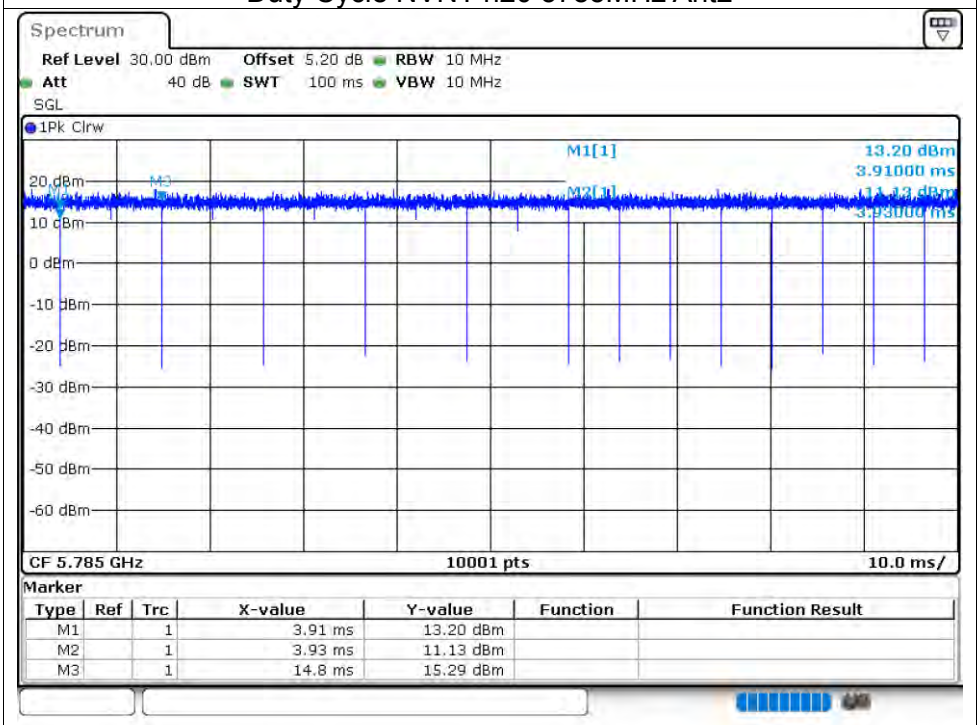
Duty Cycle NVNT n20 5825MHz Ant1



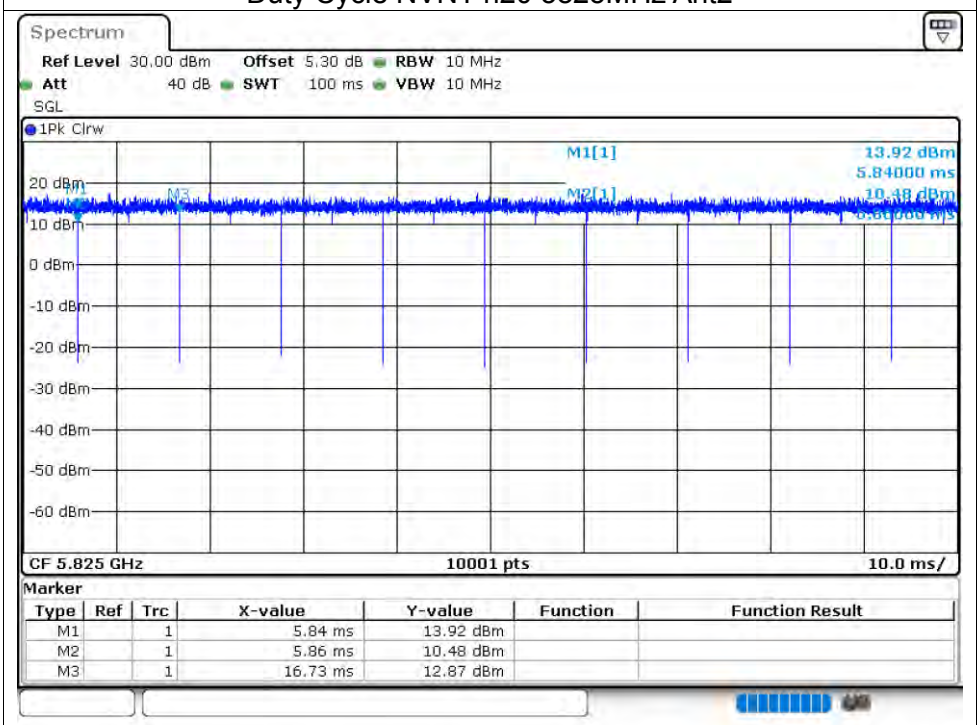
Duty Cycle NVNT n20 5745MHz Ant2



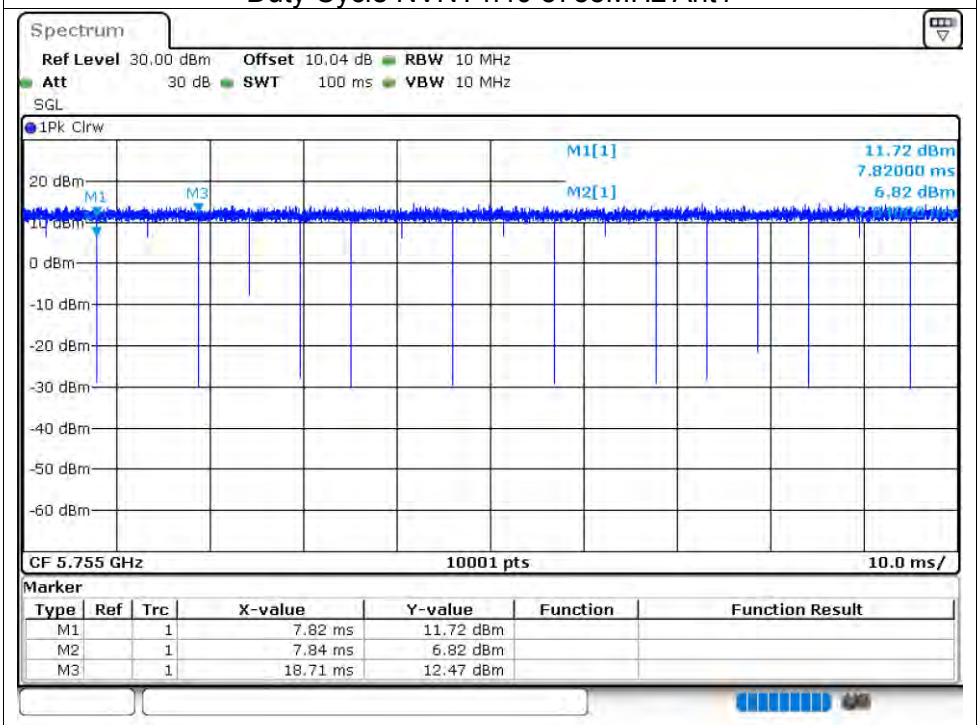
Duty Cycle NVNT n20 5785MHz Ant2



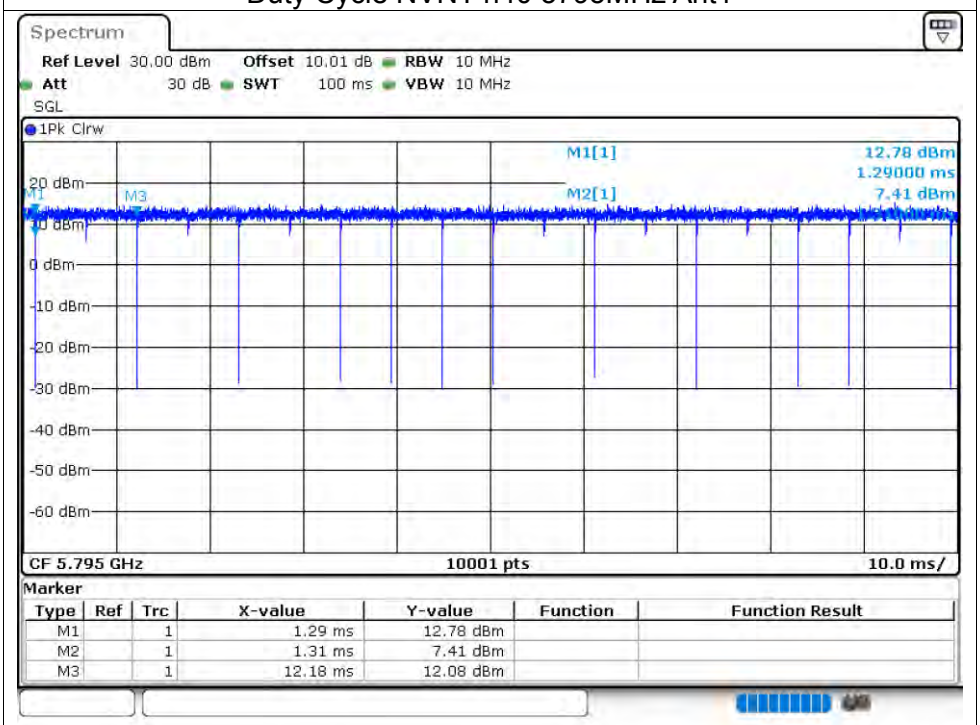
Duty Cycle NVNT n20 5825MHz Ant2



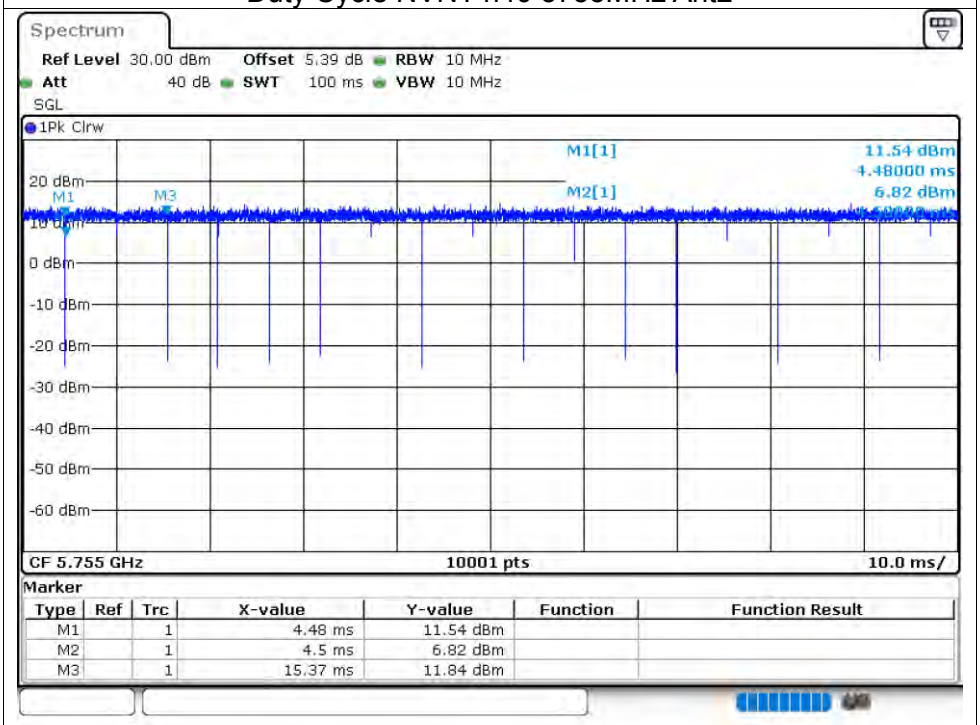
Duty Cycle NVNT n40 5755MHz Ant1



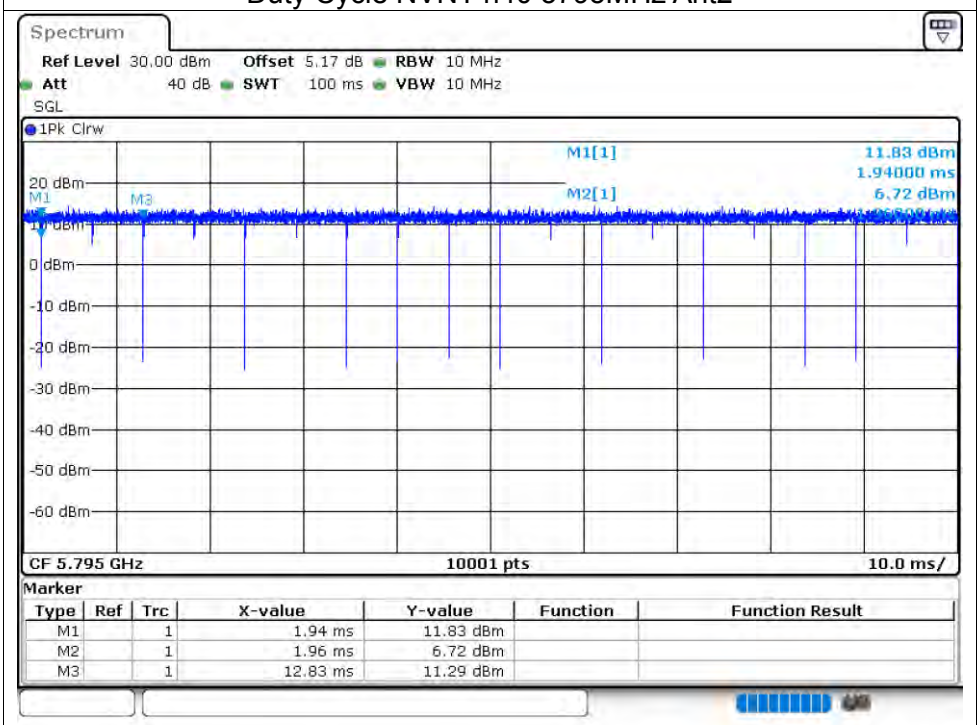
Duty Cycle NVNT n40 5795MHz Ant1



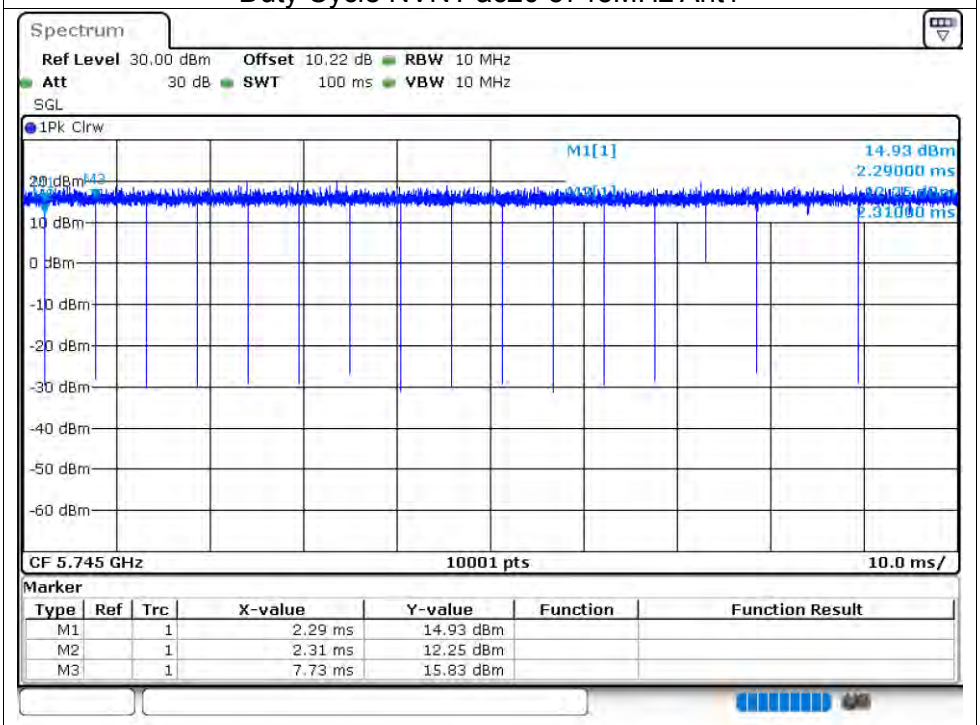
Duty Cycle NVNT n40 5755MHz Ant2



Duty Cycle NVNT n40 5795MHz Ant2



Duty Cycle NVNT ac20 5745MHz Ant1



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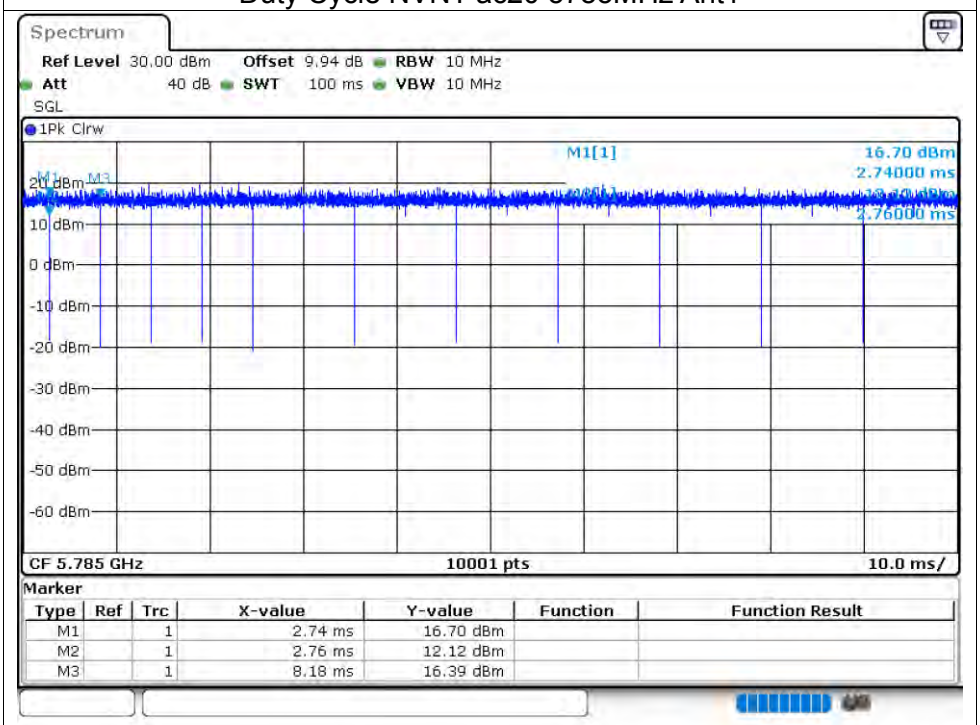
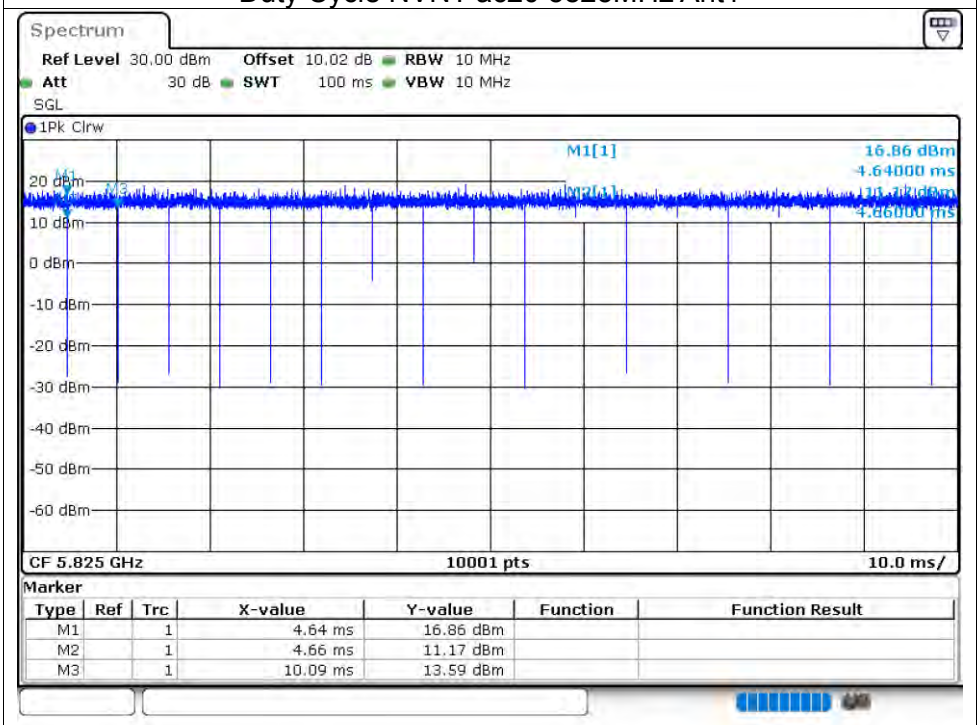
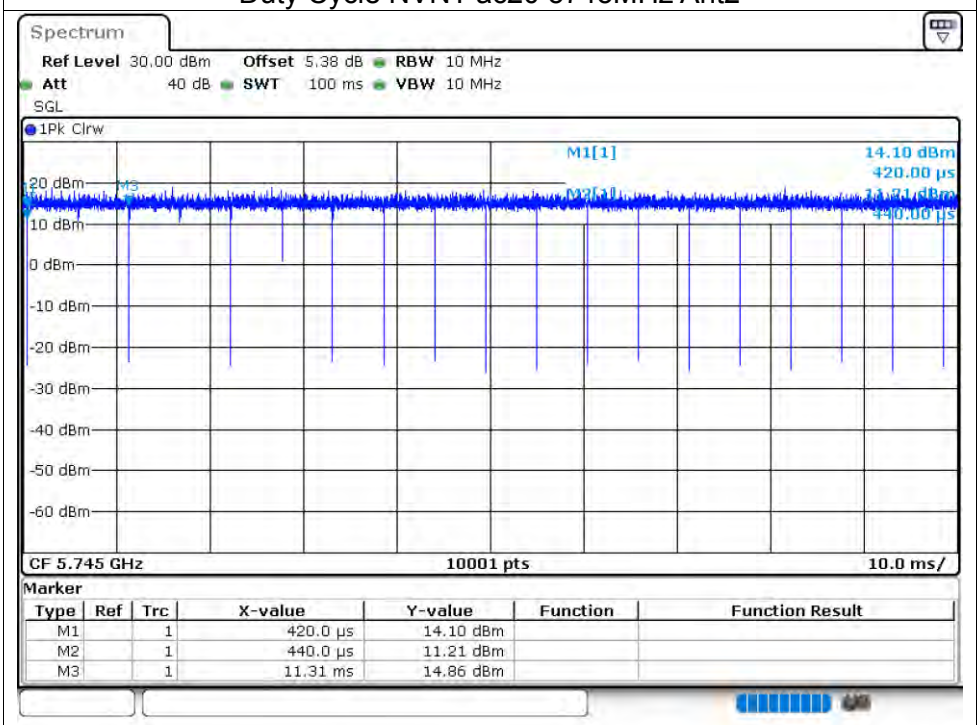


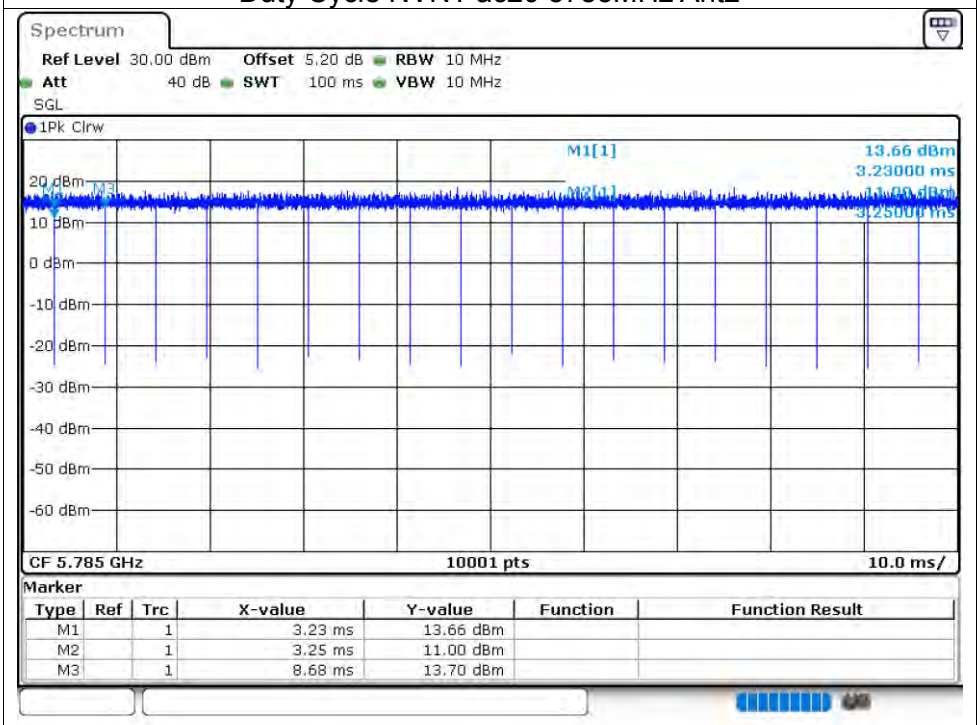
Duty Cycle NVNT ac20 5825MHz Ant1



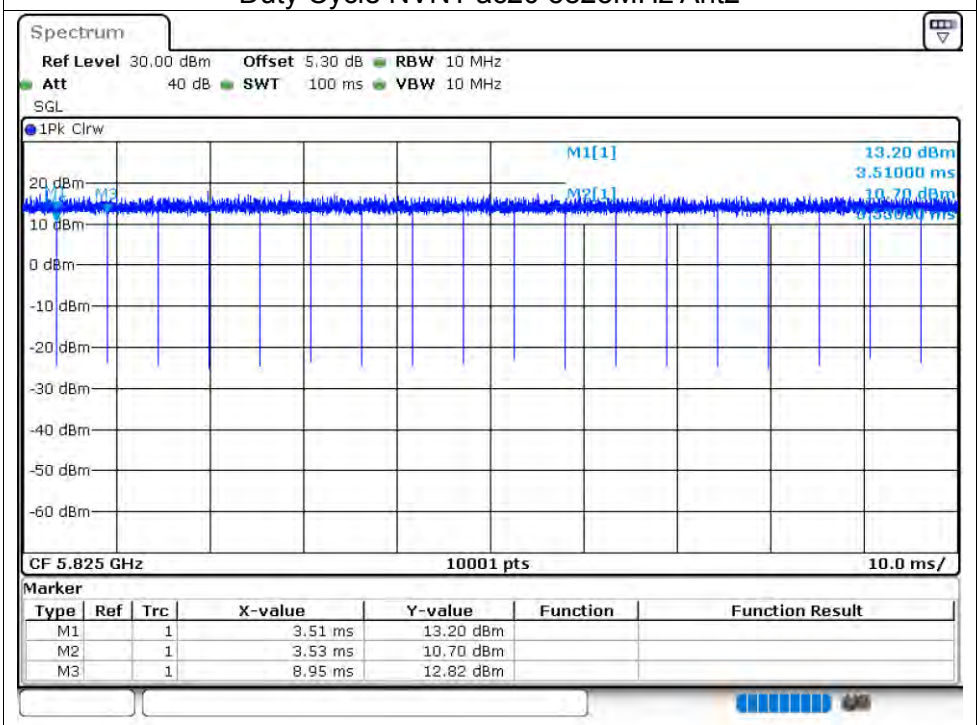
Duty Cycle NVNT ac20 5745MHz Ant2



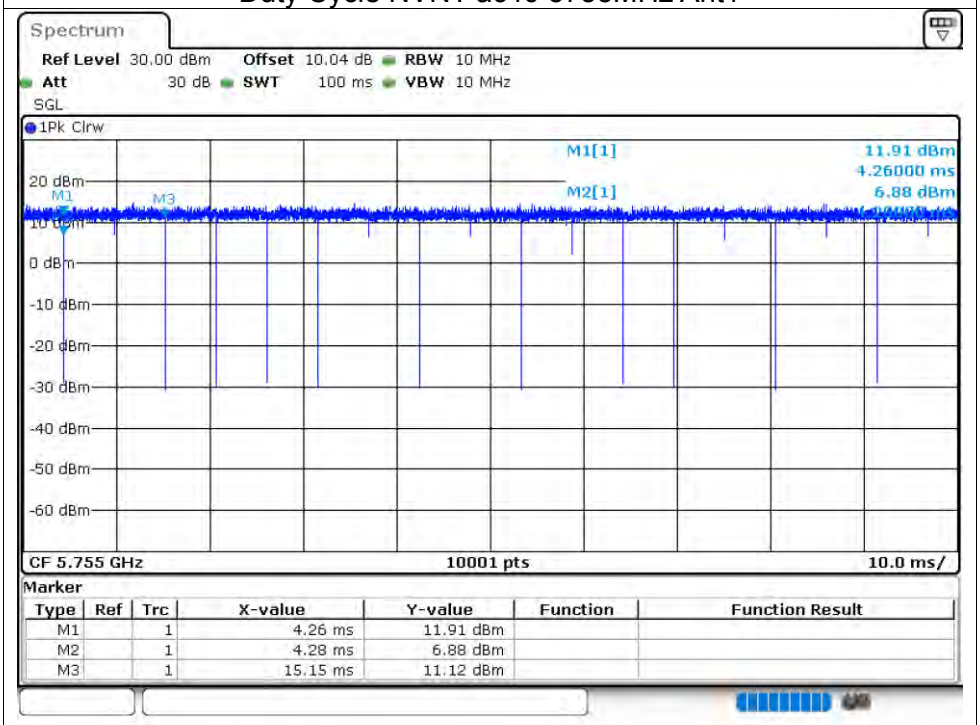
Duty Cycle NVNT ac20 5785MHz Ant2



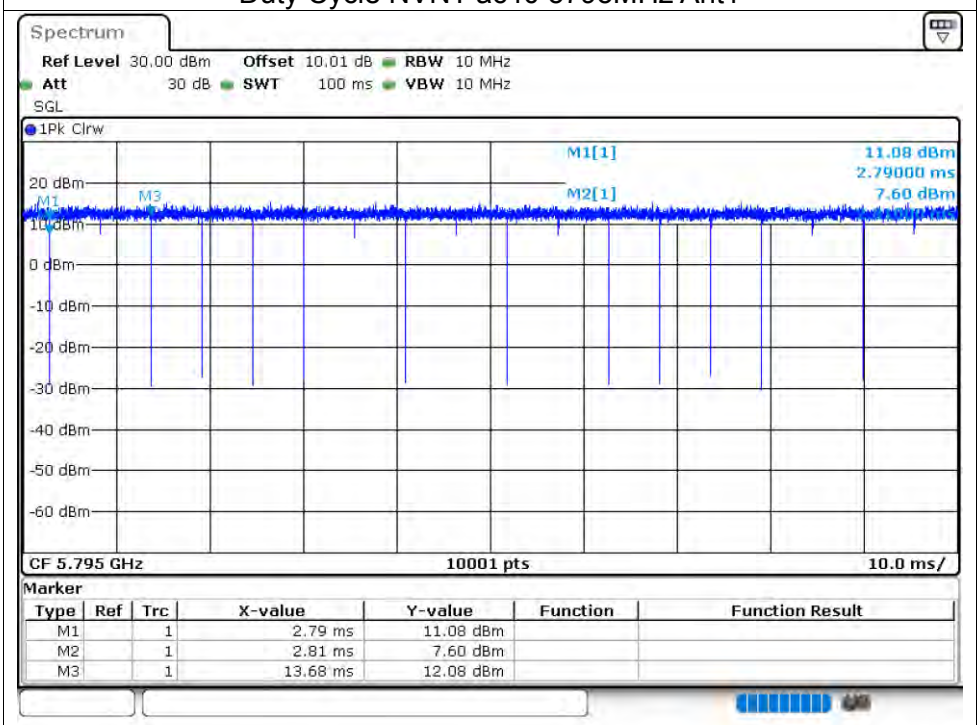
Duty Cycle NVNT ac20 5825MHz Ant2



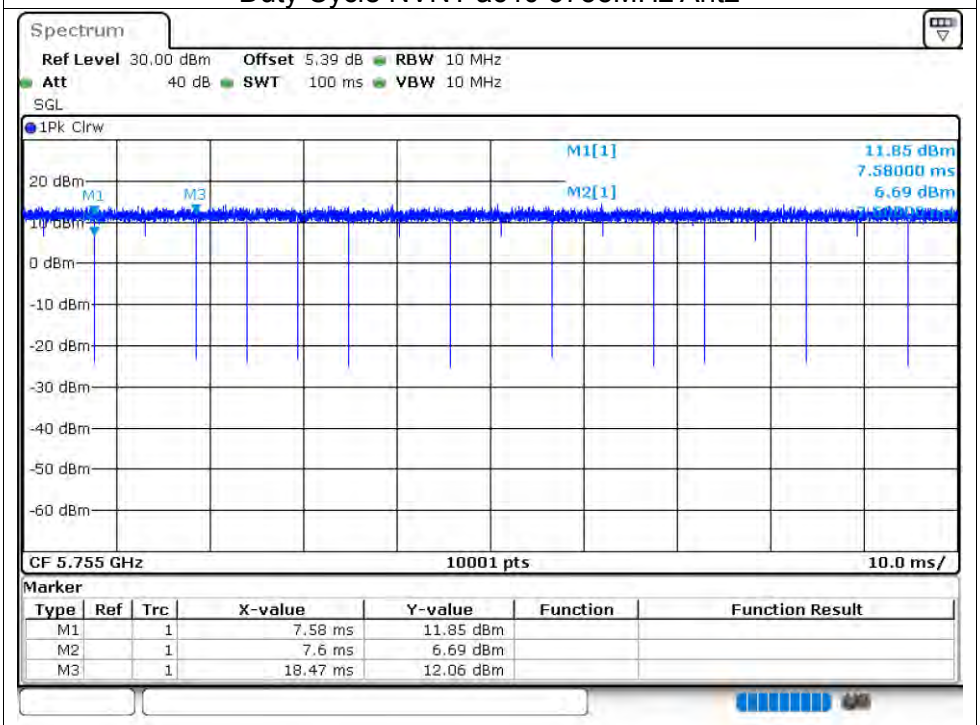
Duty Cycle NVNT ac40 5755MHz Ant1



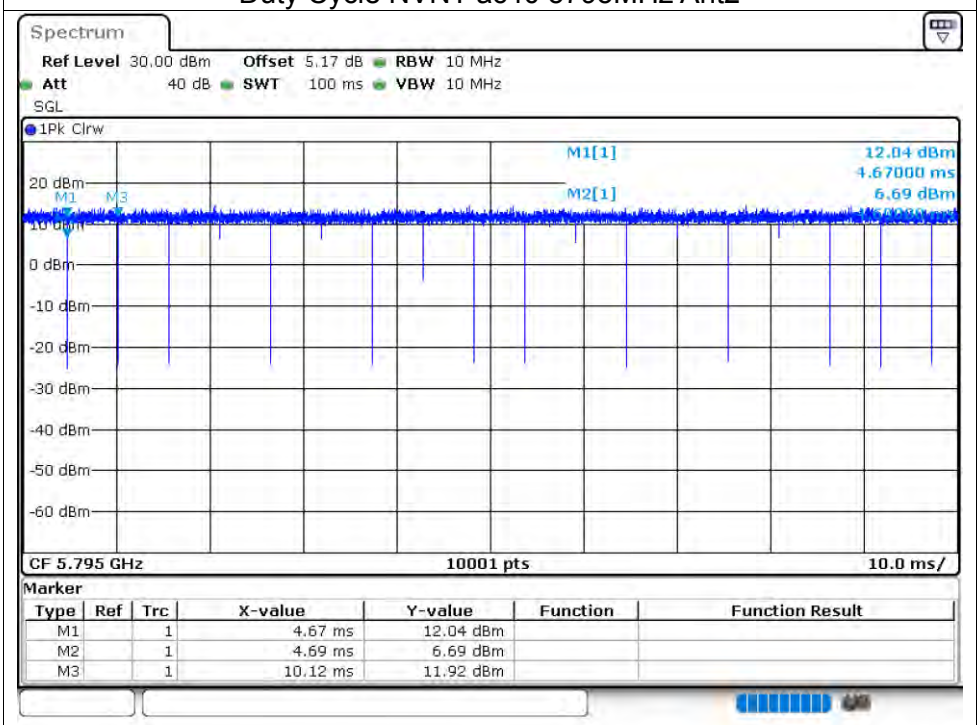
Duty Cycle NVNT ac40 5795MHz Ant1



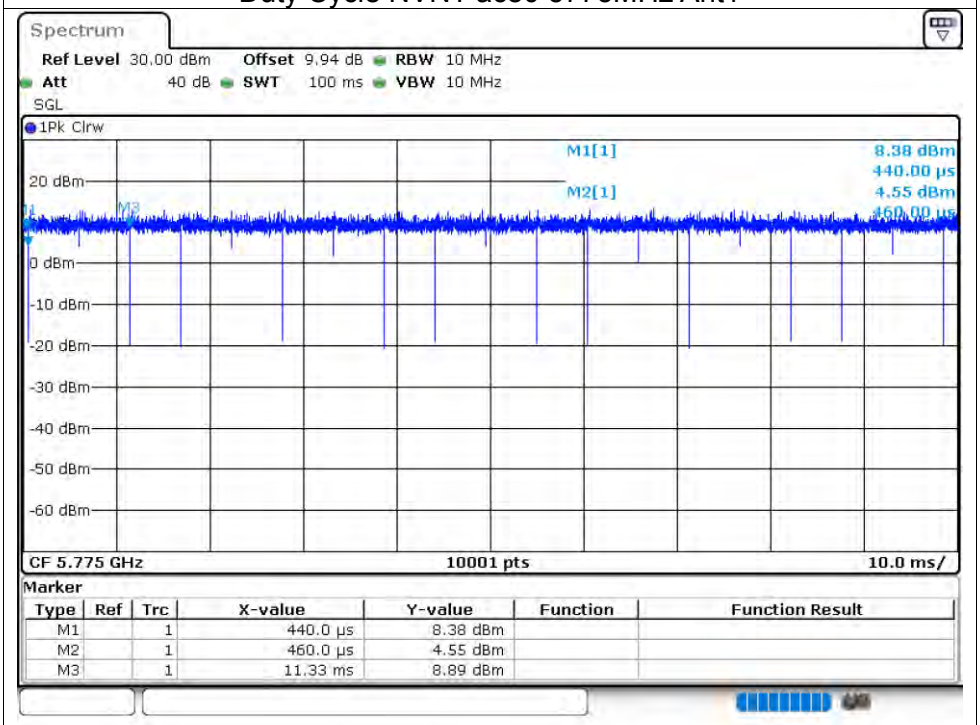
Duty Cycle NVNT ac40 5755MHz Ant2



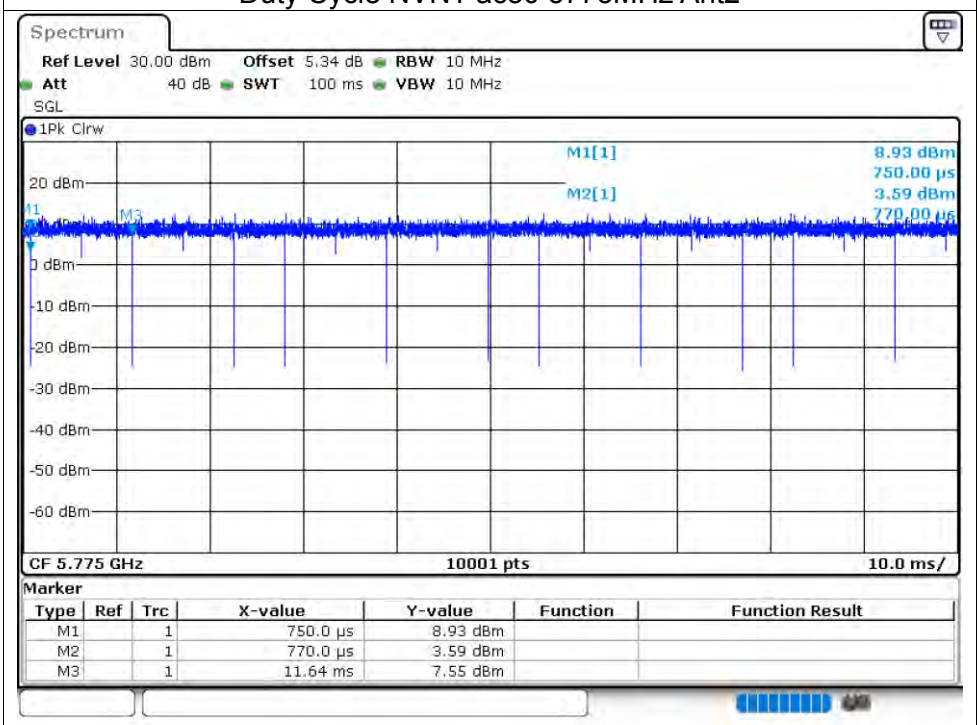
Duty Cycle NVNT ac40 5795MHz Ant2



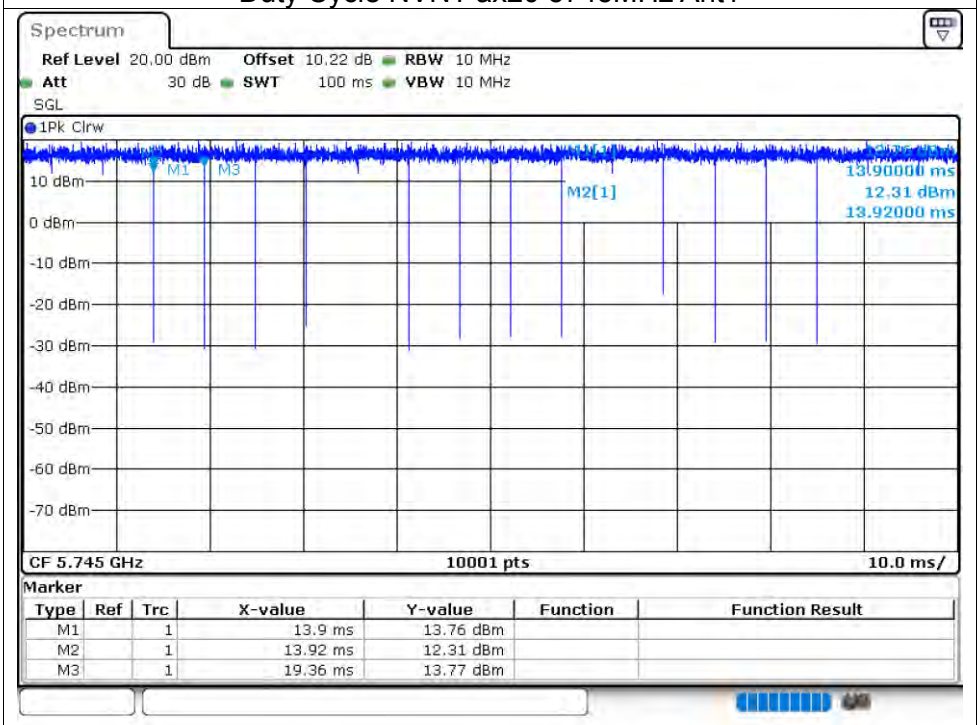
Duty Cycle NVNT ac80 5775MHz Ant1



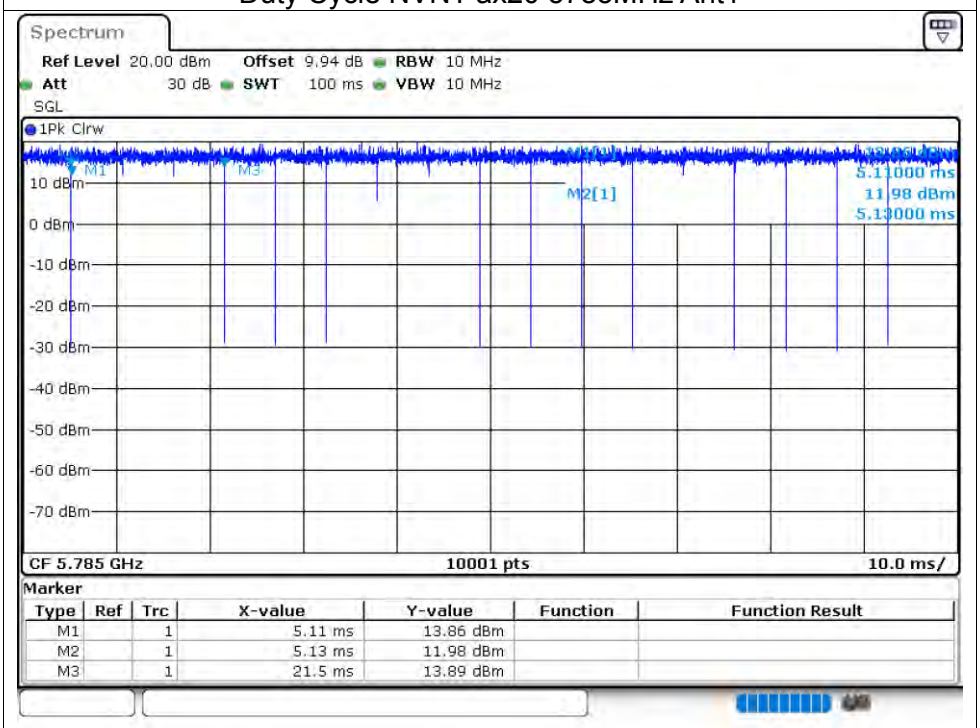
Duty Cycle NVNT ac80 5775MHz Ant2



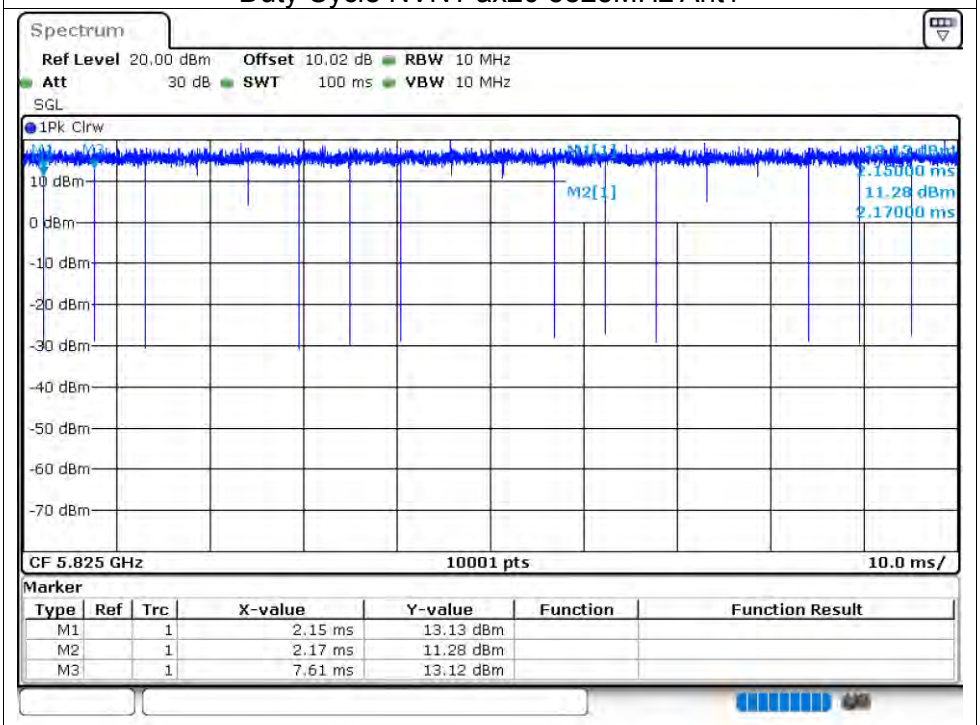
Duty Cycle NVNT ax20 5745MHz Ant1



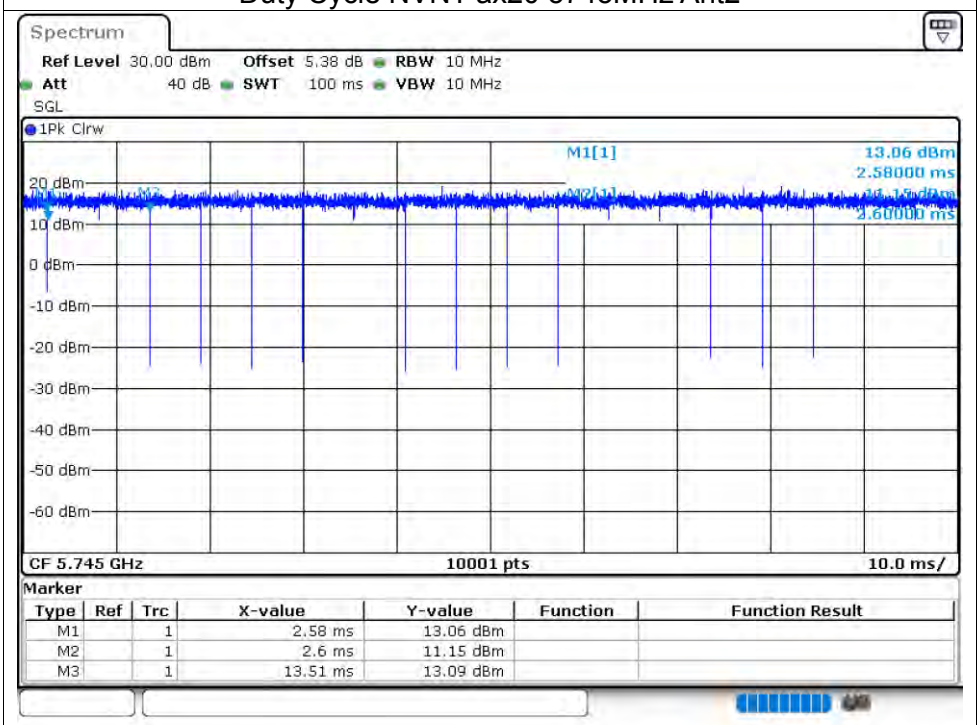
Duty Cycle NVNT ax20 5785MHz Ant1



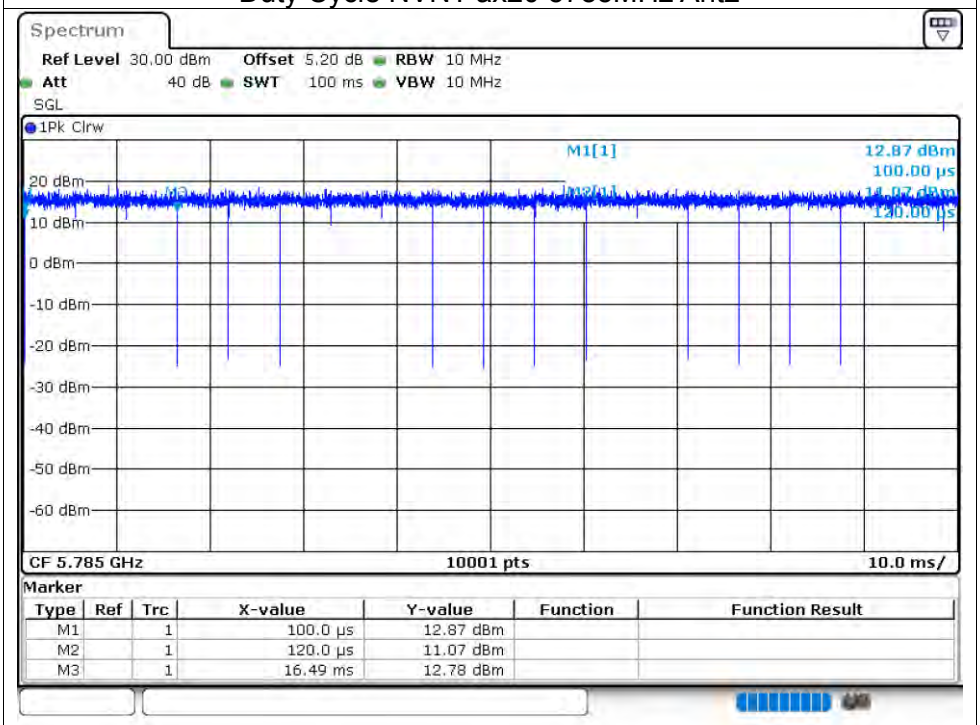
Duty Cycle NVNT ax20 5825MHz Ant1



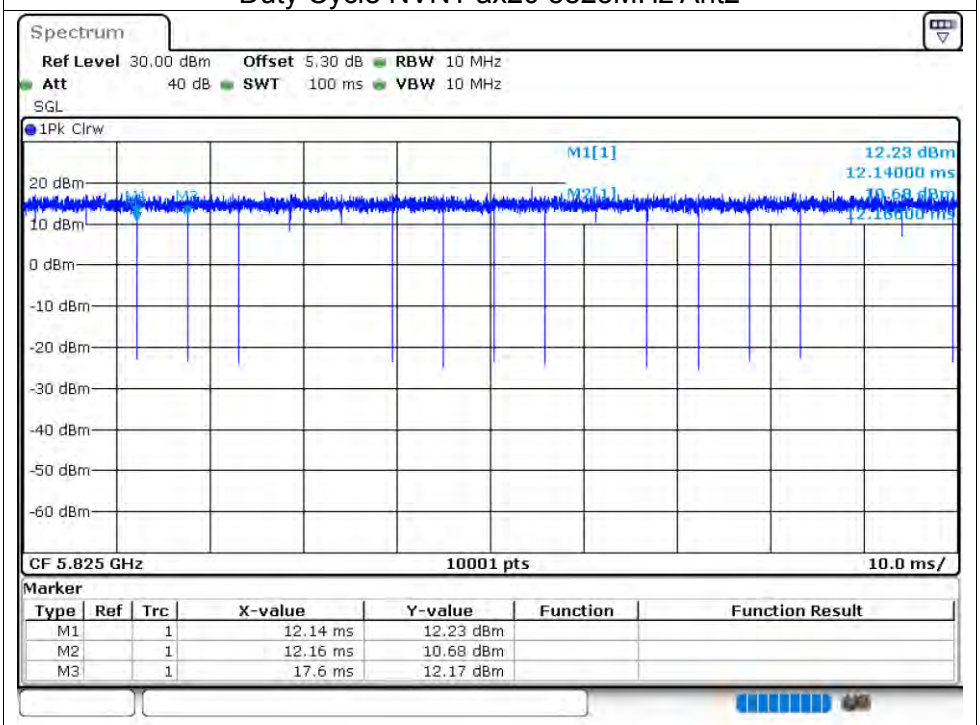
Duty Cycle NVNT ax20 5745MHz Ant2



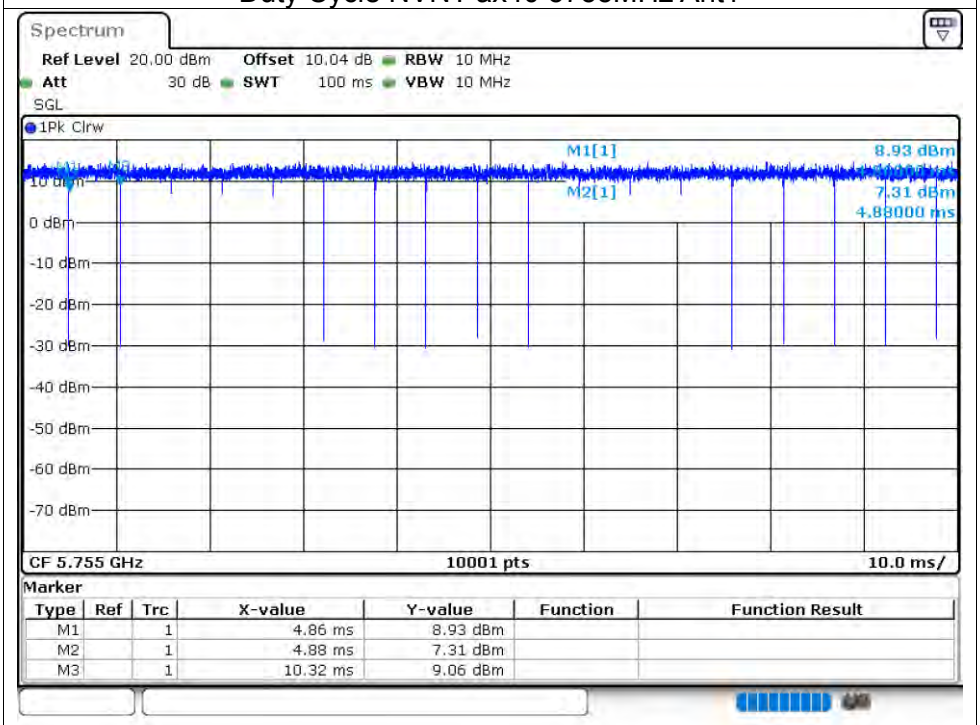
Duty Cycle NVNT ax20 5785MHz Ant2



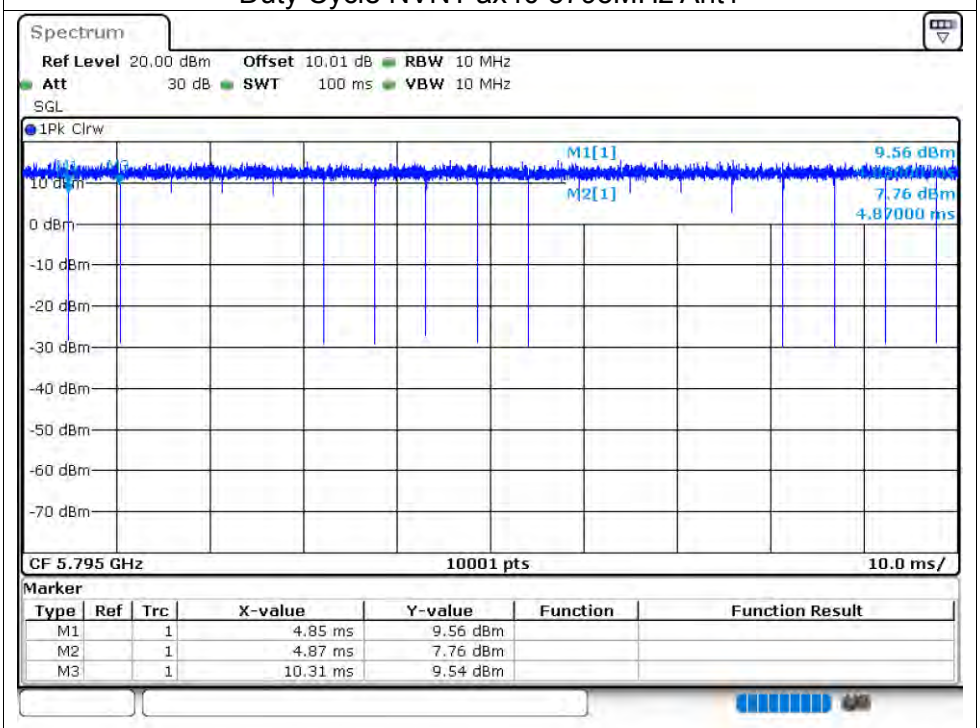
Duty Cycle NVNT ax20 5825MHz Ant2



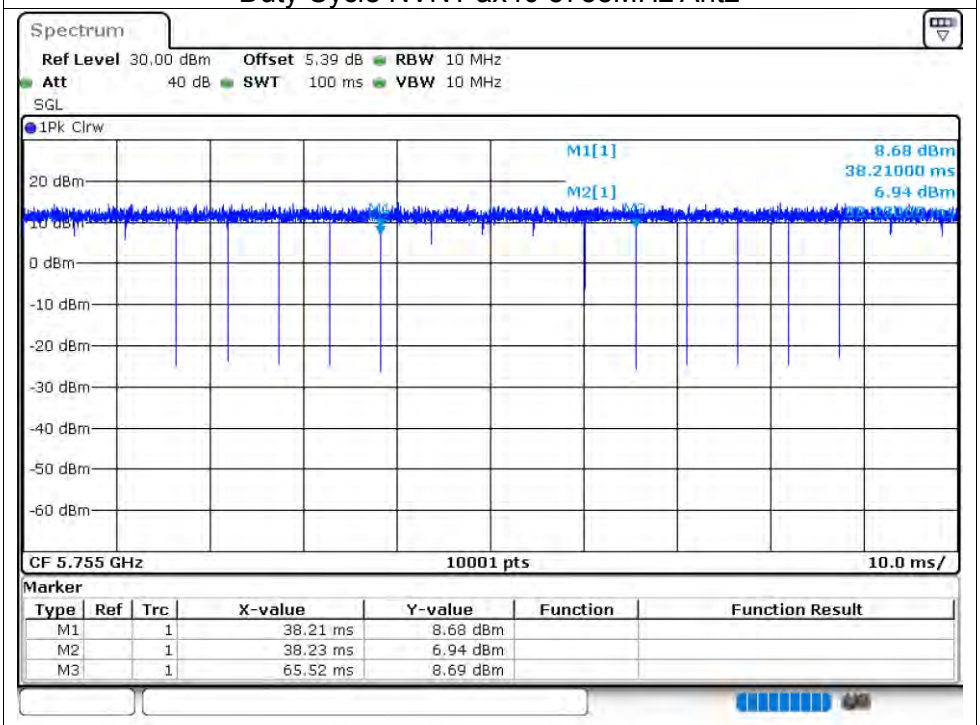
Duty Cycle NVNT ax40 5755MHz Ant1



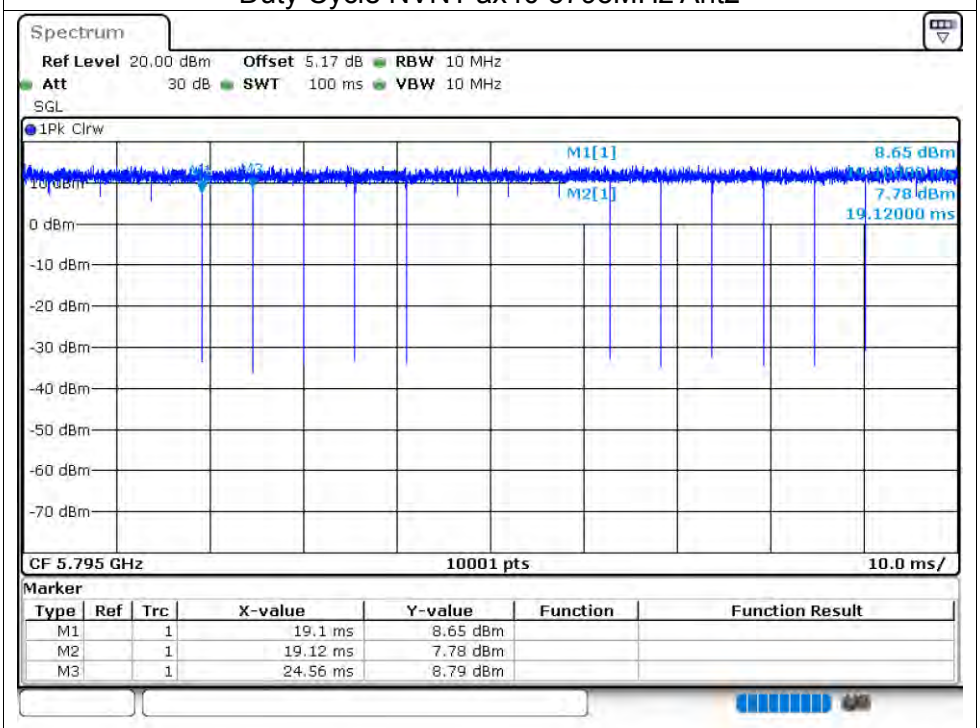
Duty Cycle NVNT ax40 5795MHz Ant1



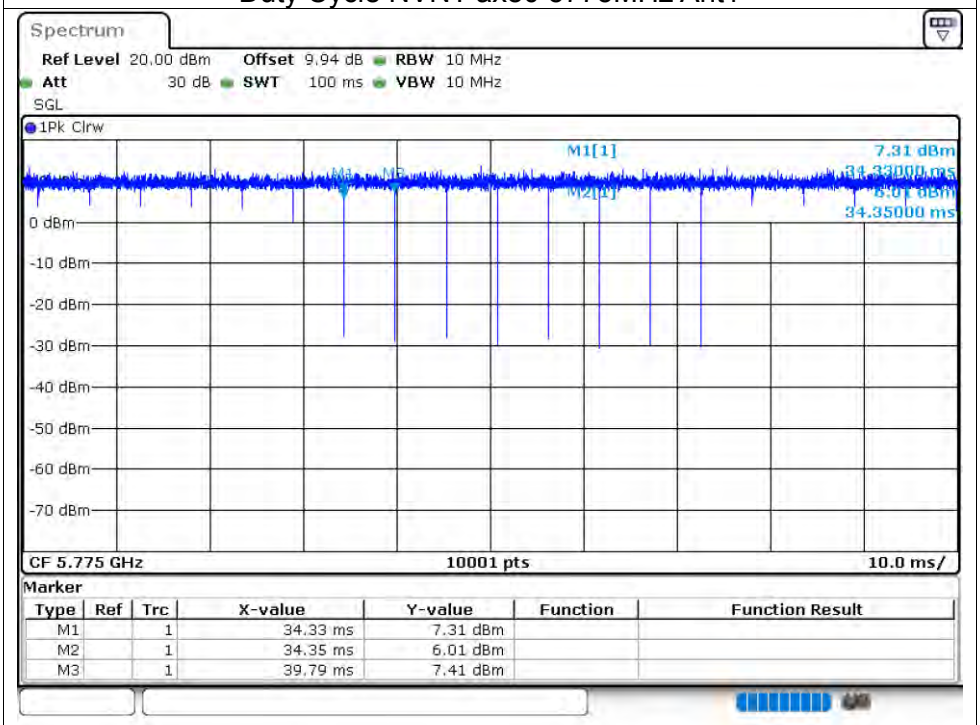
Duty Cycle NVNT ax40 5755MHz Ant2



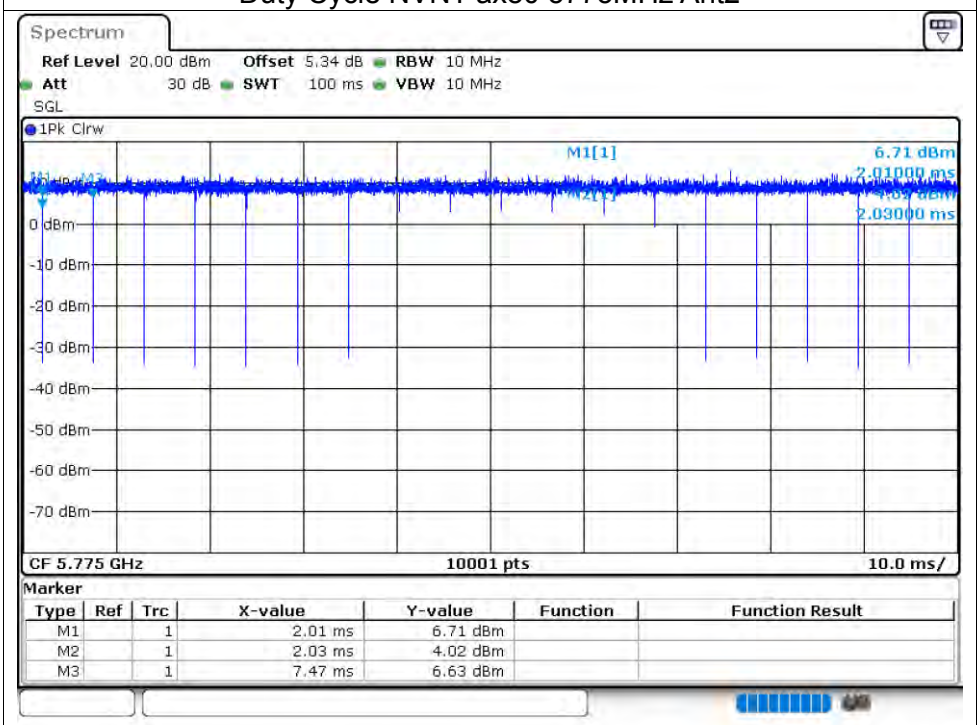
Duty Cycle NVNT ax40 5795MHz Ant2



Duty Cycle NVNT ax80 5775MHz Ant1



Duty Cycle NVNT ax80 5775MHz Ant2



7.4.2 MAXIMUM CONDUCTED OUTPUT POWER

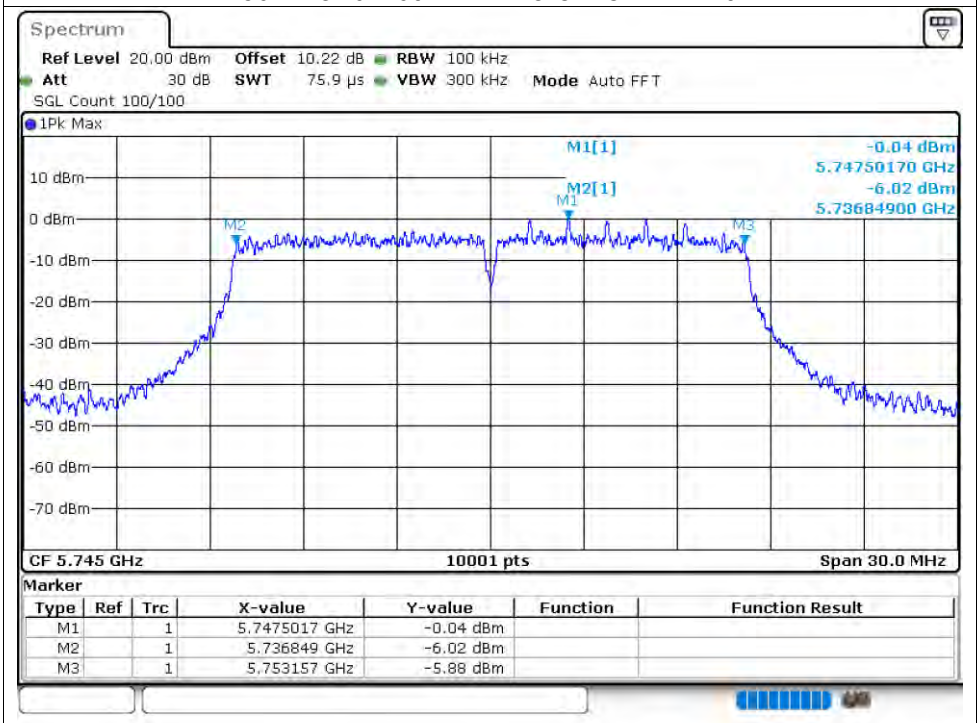
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	11.07	-	30	Pass
NVNT	a	5785	Ant1	11.35	-	30	Pass
NVNT	a	5825	Ant1	11.27	-	30	Pass
NVNT	a	5745	Ant2	10.98	-	30	Pass
NVNT	a	5785	Ant2	10.92	-	30	Pass
NVNT	a	5825	Ant2	11.48	-	30	Pass
NVNT	n20	5745	Ant1	10.94	13.90	30	Pass
NVNT	n20	5745	Ant2	10.84			
NVNT	n20	5785	Ant1	11.13	13.98	30	Pass
NVNT	n20	5785	Ant2	10.81			
NVNT	n20	5825	Ant1	11.12	14.23	30	Pass
NVNT	n20	5825	Ant2	11.32			
NVNT	n40	5755	Ant1	11.68	14.41	30	Pass
NVNT	n40	5755	Ant2	11.11			
NVNT	n40	5795	Ant1	11.22	14.13	30	Pass
NVNT	n40	5795	Ant2	11.01			
NVNT	ac20	5745	Ant1	10.92	13.91	30	Pass
NVNT	ac20	5745	Ant2	10.87			
NVNT	ac20	5785	Ant1	11.22	14.04	30	Pass
NVNT	ac20	5785	Ant2	10.83			
NVNT	ac20	5825	Ant1	11.61	14.47	30	Pass
NVNT	ac20	5825	Ant2	11.3			
NVNT	ac40	5755	Ant1	11.79	14.47	30	Pass
NVNT	ac40	5755	Ant2	11.11			
NVNT	ac40	5795	Ant1	11.22	14.15	30	Pass
NVNT	ac40	5795	Ant2	11.07			
NVNT	ac80	5775	Ant1	11.29	14.14	30	Pass
NVNT	ac80	5775	Ant2	10.96			
NVNT	ax20	5745	Ant1	10.98	13.99	30	Pass
NVNT	ax20	5745	Ant2	10.98			
NVNT	ax20	5785	Ant1	11.27	14.09	30	Pass
NVNT	ax20	5785	Ant2	10.88			
NVNT	ax20	5825	Ant1	11.67	14.57	30	Pass
NVNT	ax20	5825	Ant2	11.45			
NVNT	ax40	5755	Ant1	11.65	14.36	30	Pass
NVNT	ax40	5755	Ant2	11.03			
NVNT	ax40	5795	Ant1	11.09	14.03	30	Pass
NVNT	ax40	5795	Ant2	10.95			
NVNT	ax80	5775	Ant1	6.74	10.00	30	Pass
NVNT	ax80	5775	Ant2	7.23			

7.4.3 -6DB BANDWIDTH

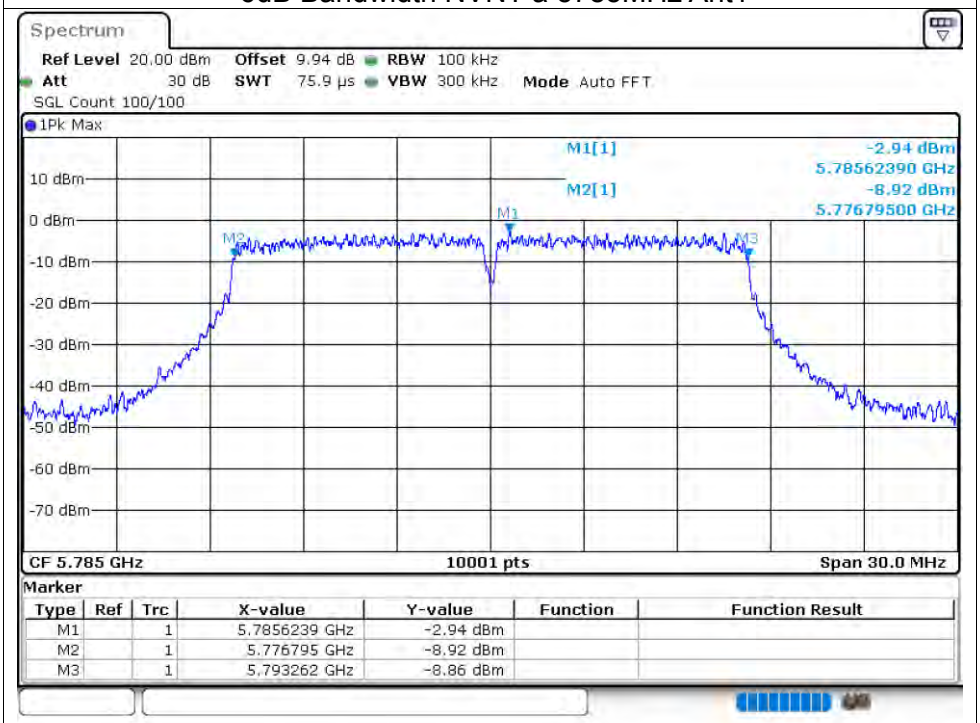
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.308	0.5	Pass
NVNT	a	5785	Ant1	16.467	0.5	Pass
NVNT	a	5825	Ant1	16.41	0.5	Pass
NVNT	a	5745	Ant2	16.401	0.5	Pass
NVNT	a	5785	Ant2	16.383	0.5	Pass
NVNT	a	5825	Ant2	16.347	0.5	Pass
NVNT	n20	5745	Ant1	17.583	0.5	Pass
NVNT	n20	5785	Ant1	17.613	0.5	Pass
NVNT	n20	5825	Ant1	17.634	0.5	Pass
NVNT	n20	5745	Ant2	17.661	0.5	Pass
NVNT	n20	5785	Ant2	17.622	0.5	Pass
NVNT	n20	5825	Ant2	17.631	0.5	Pass
NVNT	n40	5755	Ant1	35.286	0.5	Pass
NVNT	n40	5795	Ant1	36.366	0.5	Pass
NVNT	n40	5755	Ant2	36.366	0.5	Pass
NVNT	n40	5795	Ant2	36.324	0.5	Pass
NVNT	ac20	5745	Ant1	17.568	0.5	Pass
NVNT	ac20	5785	Ant1	17.691	0.5	Pass
NVNT	ac20	5825	Ant1	17.694	0.5	Pass
NVNT	ac20	5745	Ant2	17.16	0.5	Pass
NVNT	ac20	5785	Ant2	17.511	0.5	Pass
NVNT	ac20	5825	Ant2	16.902	0.5	Pass
NVNT	ac40	5755	Ant1	36.324	0.5	Pass
NVNT	ac40	5795	Ant1	36.342	0.5	Pass
NVNT	ac40	5755	Ant2	36.348	0.5	Pass
NVNT	ac40	5795	Ant2	36.36	0.5	Pass
NVNT	ac80	5775	Ant1	72.792	0.5	Pass
NVNT	ac80	5775	Ant2	76.32	0.5	Pass
NVNT	ax20	5745	Ant1	19.047	0.5	Pass
NVNT	ax20	5785	Ant1	18.831	0.5	Pass
NVNT	ax20	5825	Ant1	18.987	0.5	Pass
NVNT	ax20	5745	Ant2	18.981	0.5	Pass
NVNT	ax20	5785	Ant2	19.044	0.5	Pass
NVNT	ax20	5825	Ant2	19.017	0.5	Pass
NVNT	ax40	5755	Ant1	38.034	0.5	Pass
NVNT	ax40	5795	Ant1	37.902	0.5	Pass
NVNT	ax40	5755	Ant2	38.316	0.5	Pass
NVNT	ax40	5795	Ant2	37.104	0.5	Pass
NVNT	ax80	5775	Ant1	77.412	0.5	Pass
NVNT	ax80	5775	Ant2	78.072	0.5	Pass

Test Graphs

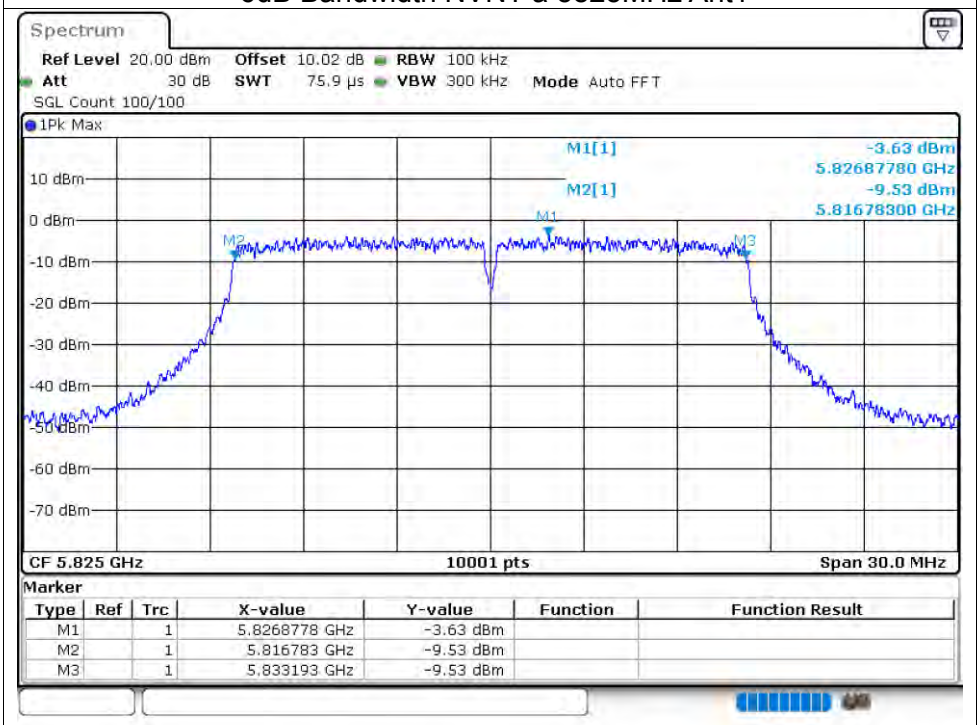
-6dB Bandwidth NVNT a 5745MHz Ant1



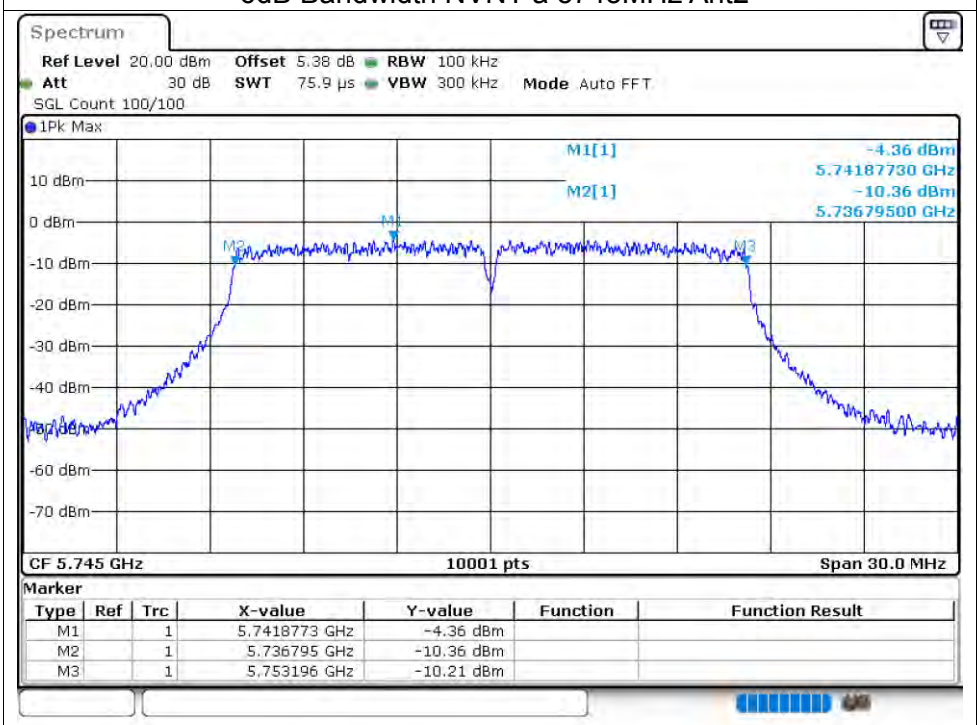
-6dB Bandwidth NVNT a 5785MHz Ant1



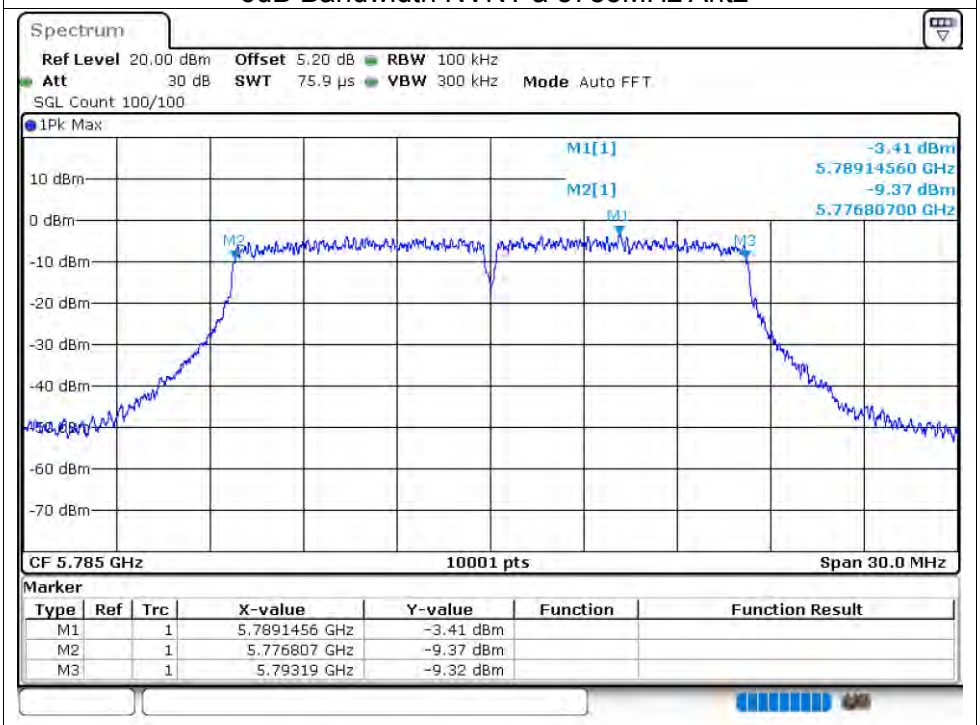
-6dB Bandwidth NVNT a 5825MHz Ant1



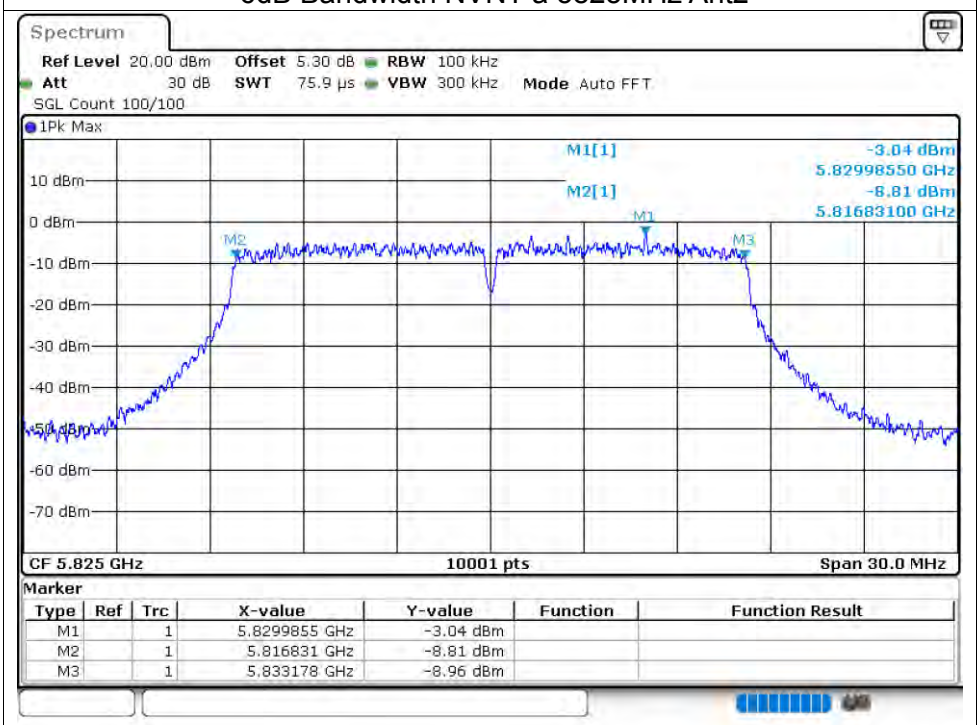
-6dB Bandwidth NVNT a 5745MHz Ant2



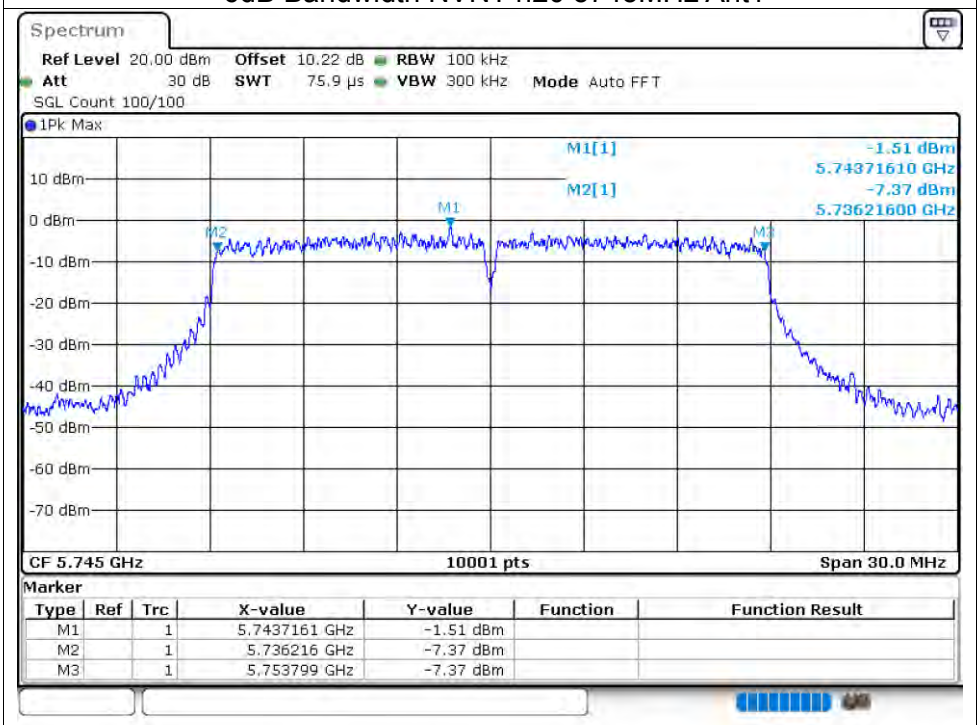
-6dB Bandwidth NVNT a 5785MHz Ant2



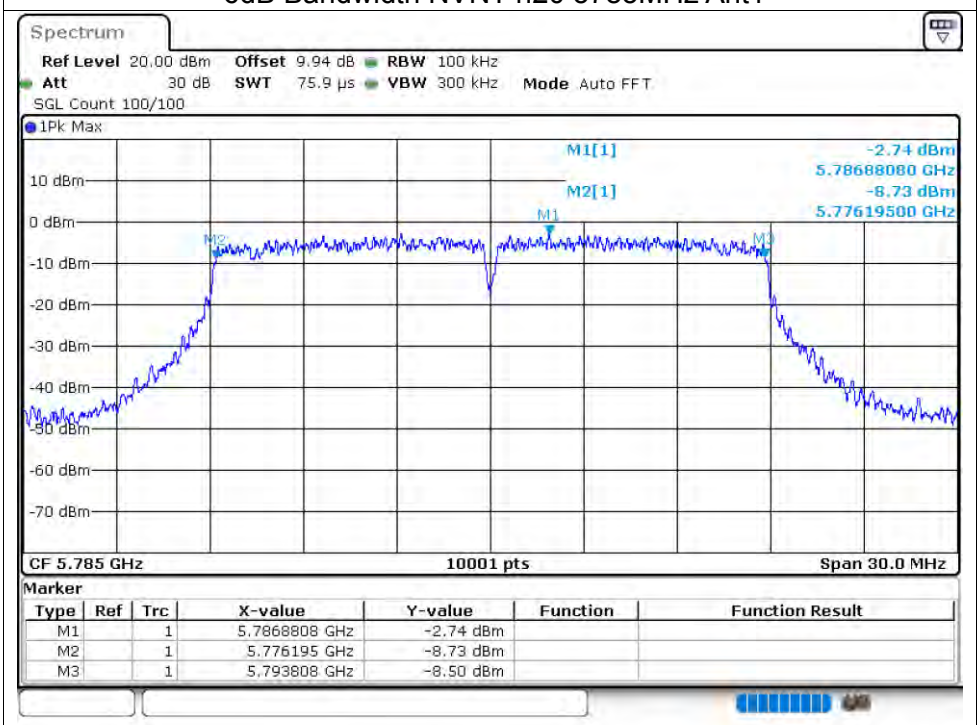
-6dB Bandwidth NVNT a 5825MHz Ant2



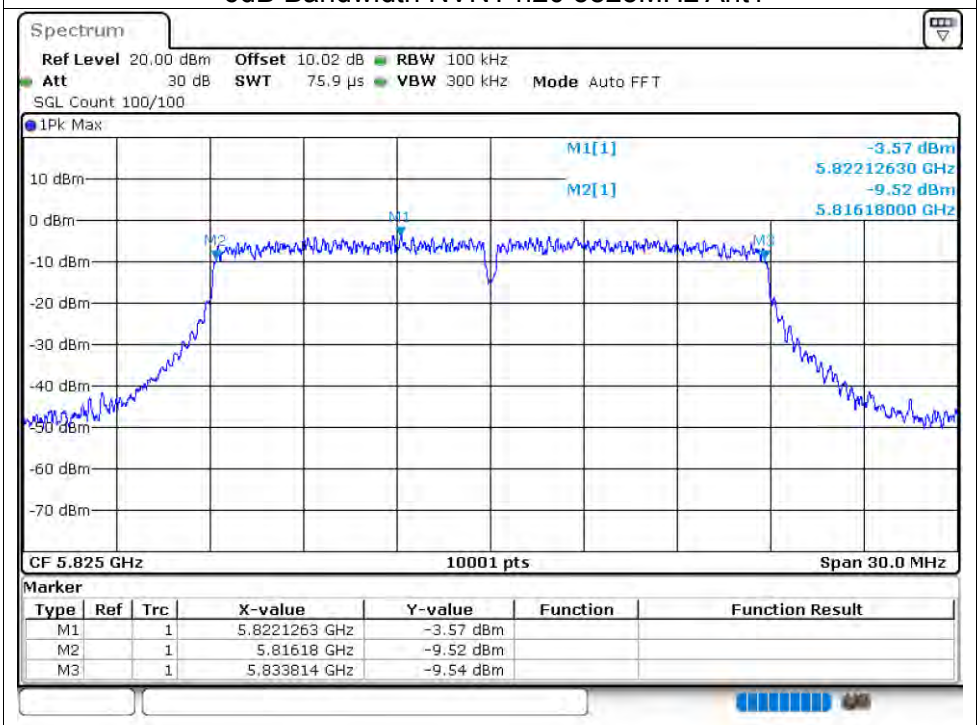
-6dB Bandwidth NVNT n20 5745MHz Ant1



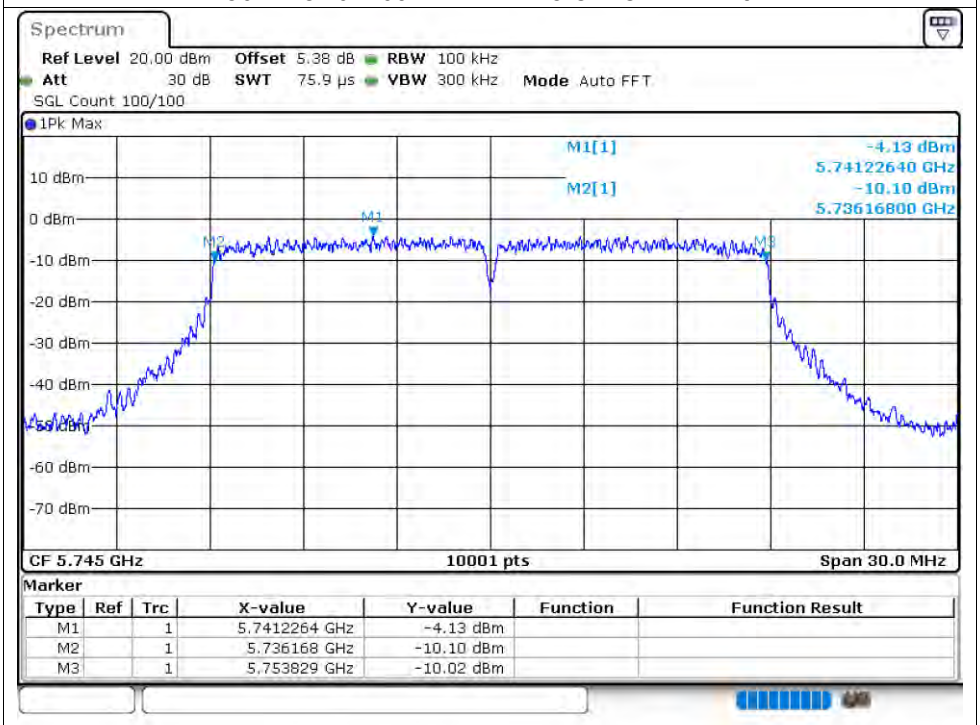
-6dB Bandwidth NVNT n20 5785MHz Ant1



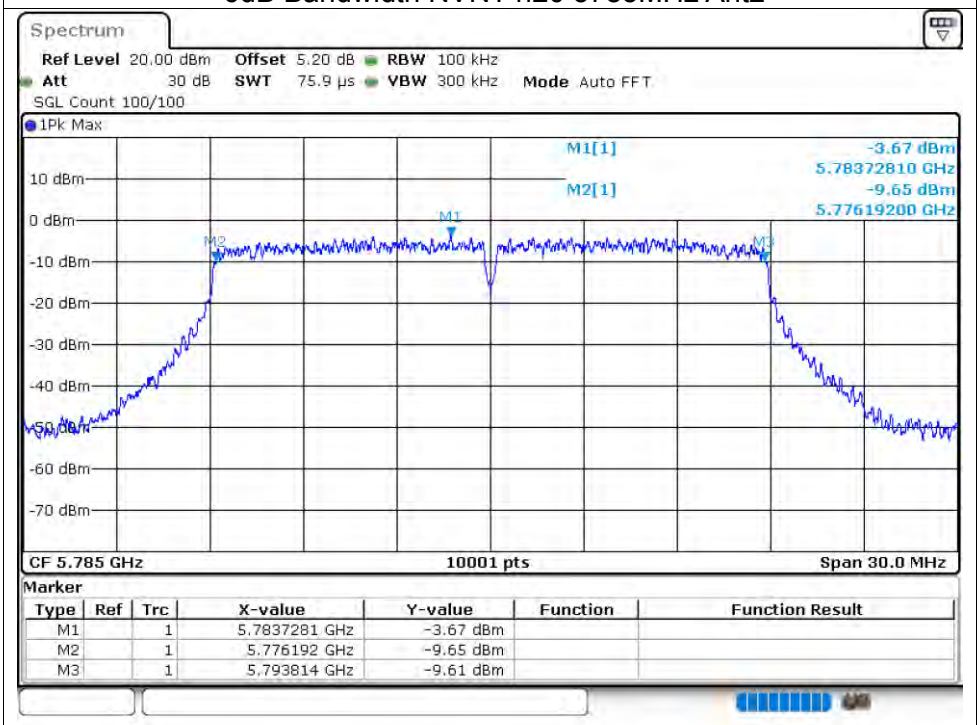
-6dB Bandwidth NVNT n20 5825MHz Ant1



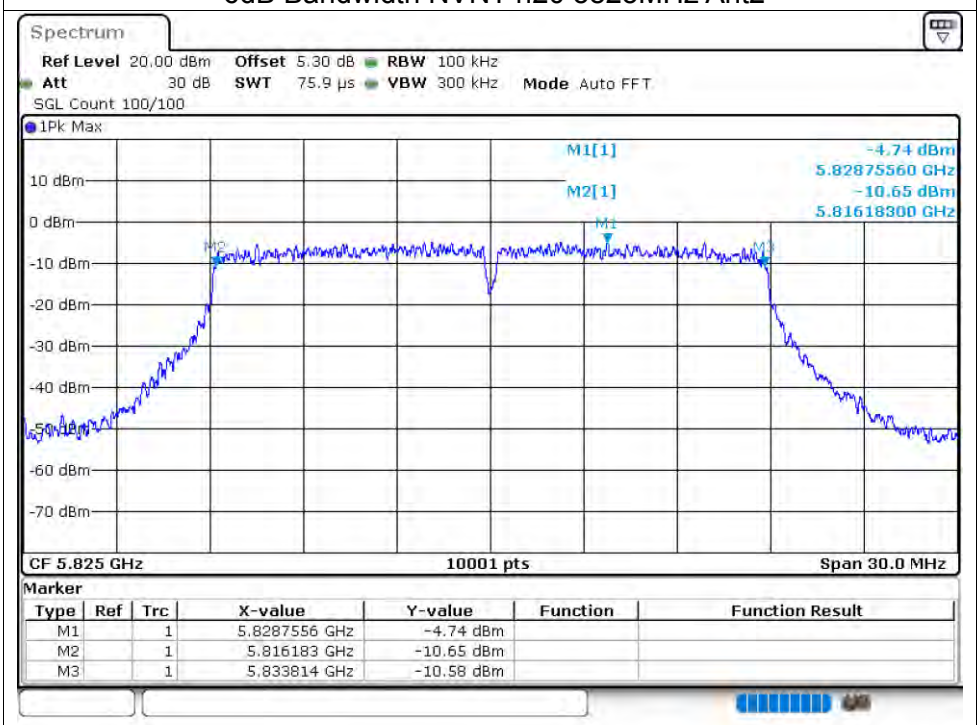
-6dB Bandwidth NVNT n20 5745MHz Ant2



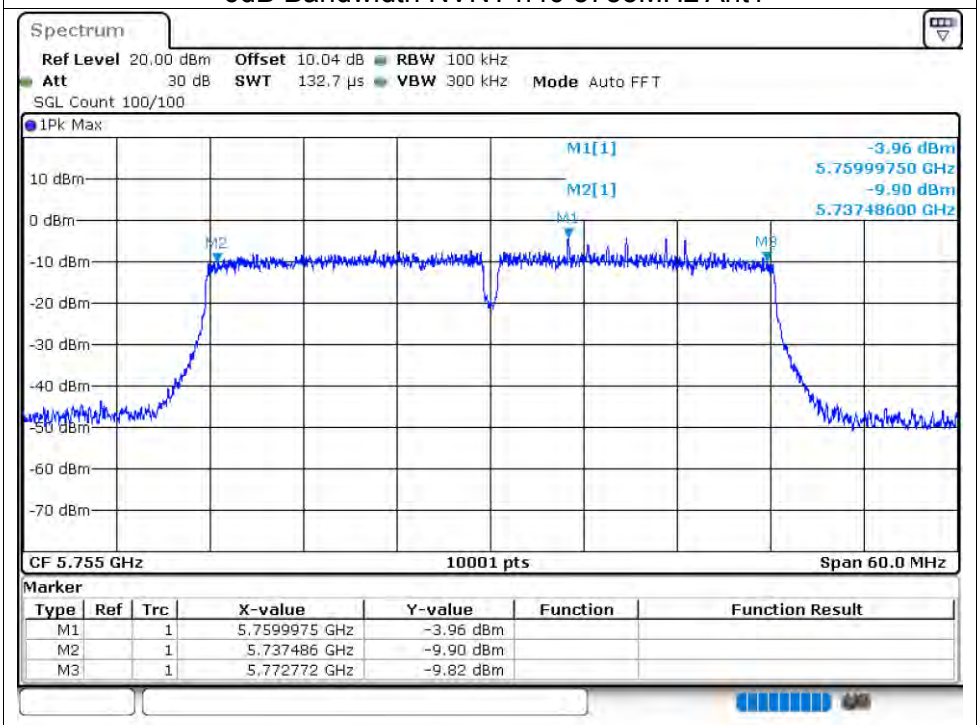
-6dB Bandwidth NVNT n20 5785MHz Ant2



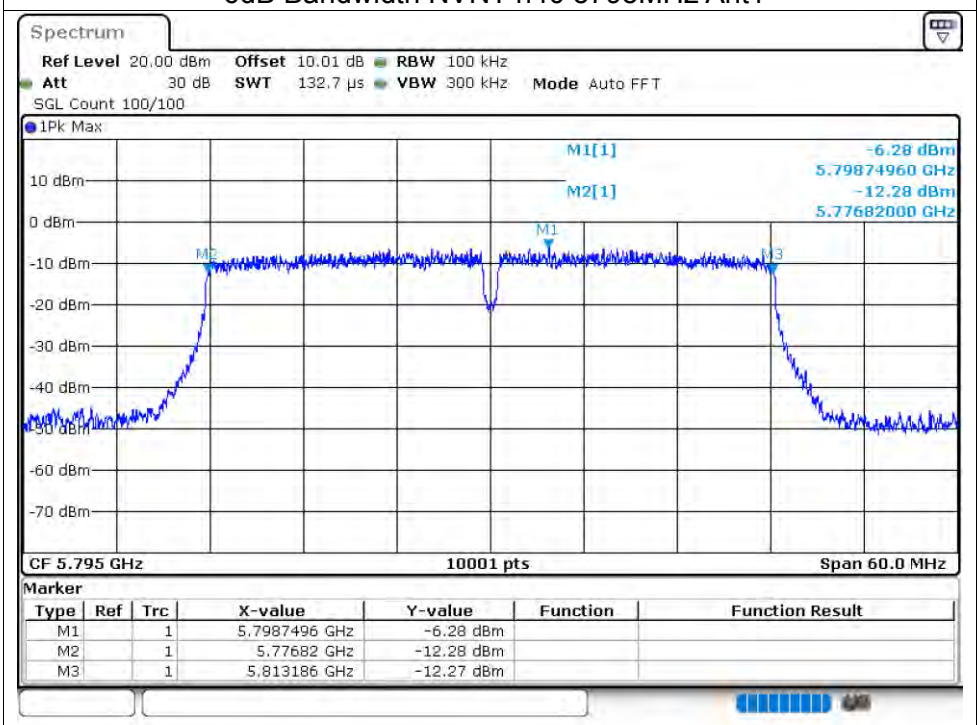
-6dB Bandwidth NVNT n20 5825MHz Ant2



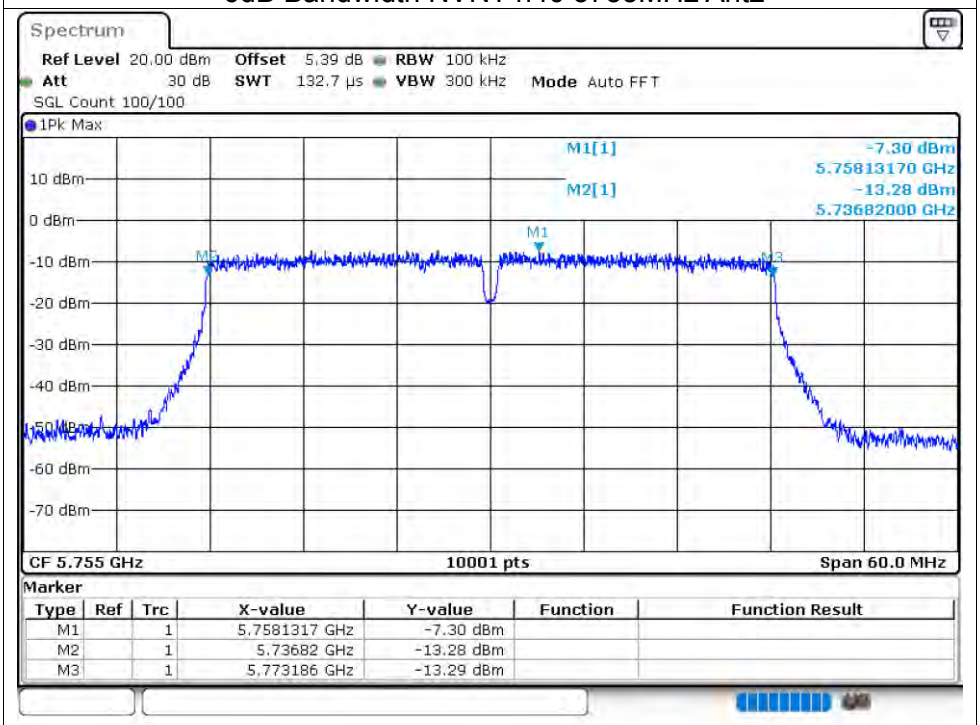
-6dB Bandwidth NVNT n40 5755MHz Ant1



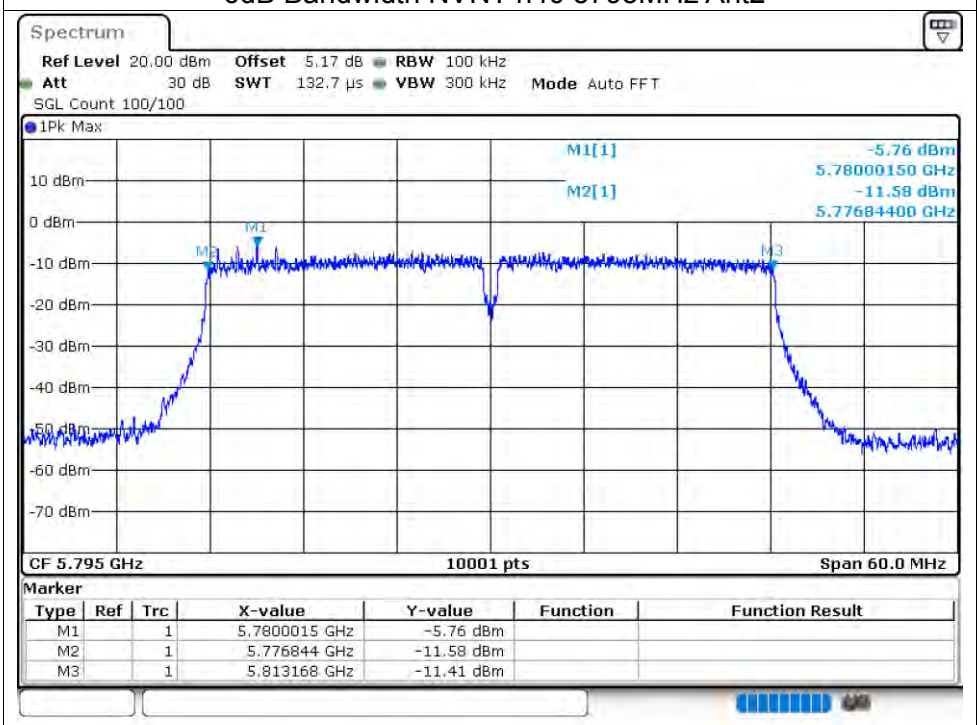
-6dB Bandwidth NVNT n40 5795MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant2



-6dB Bandwidth NVNT n40 5795MHz Ant2



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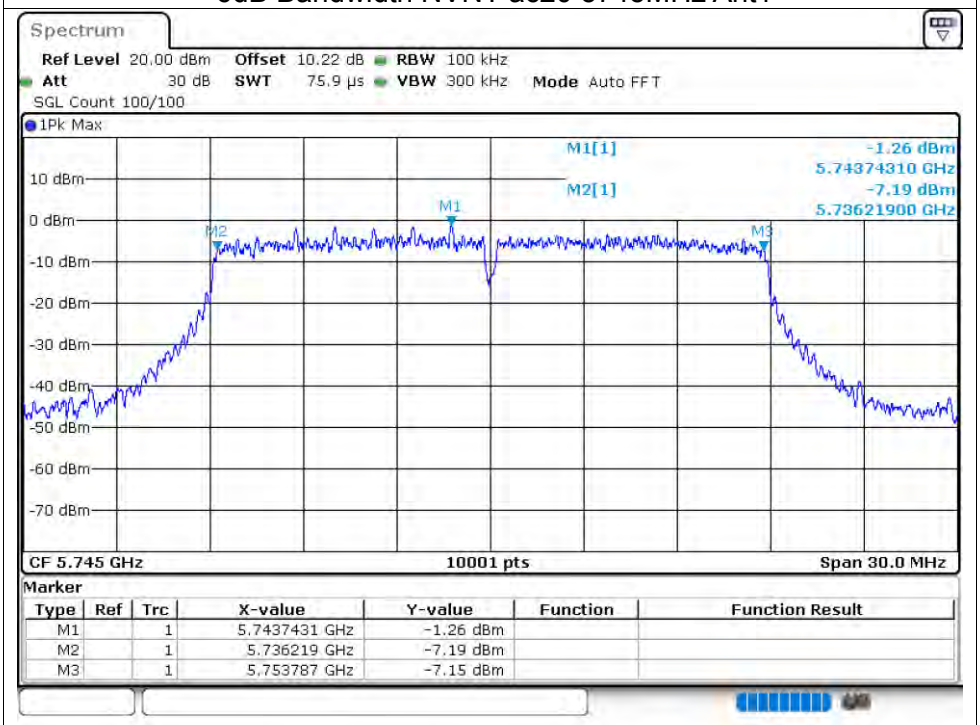

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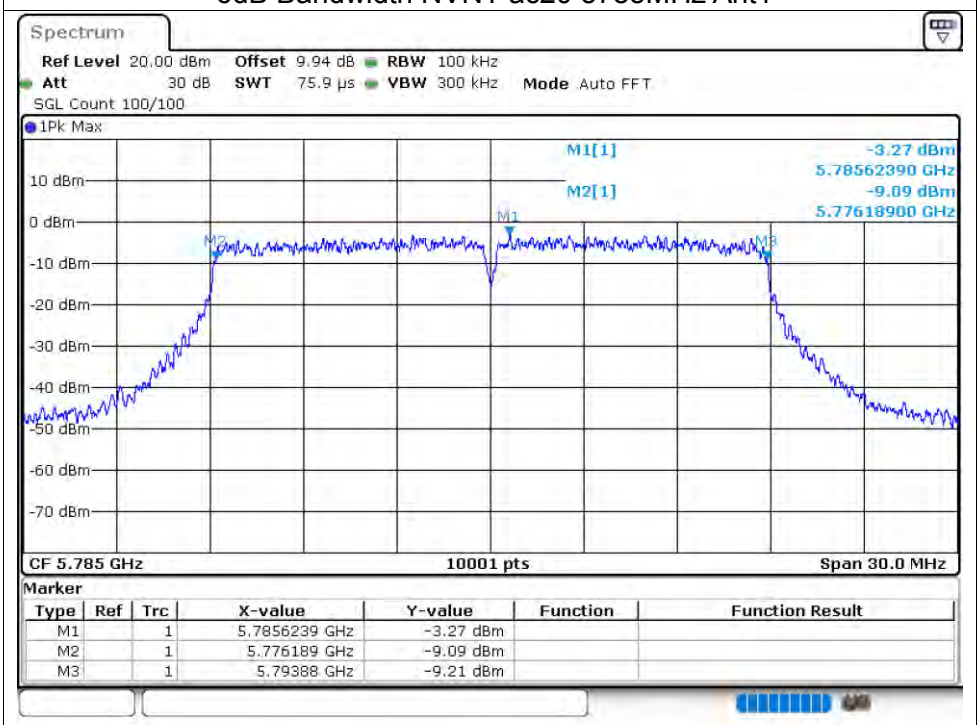
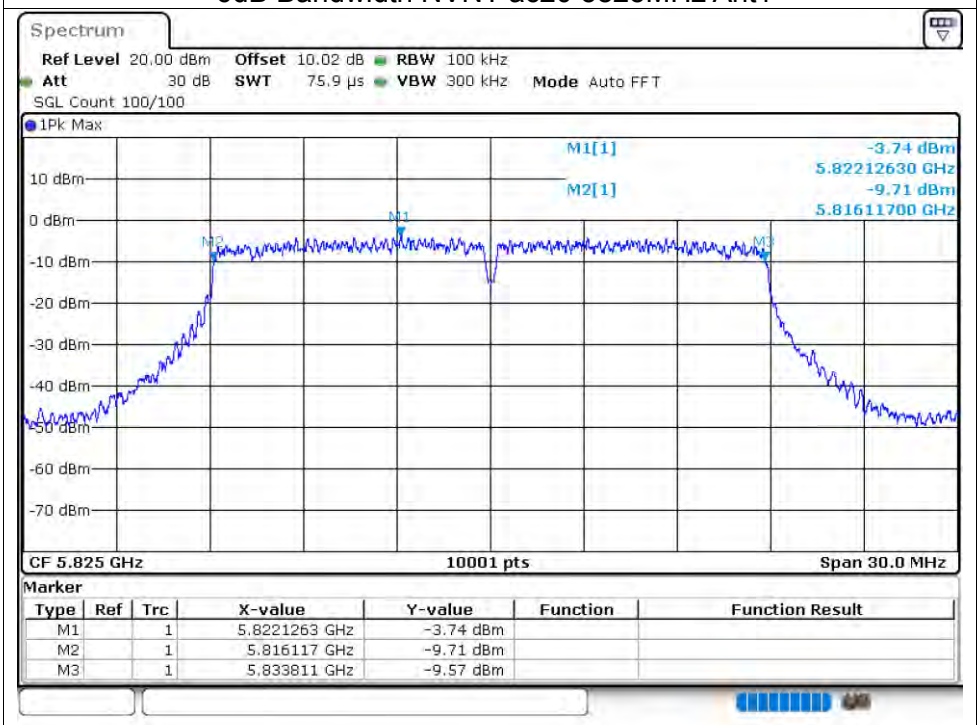
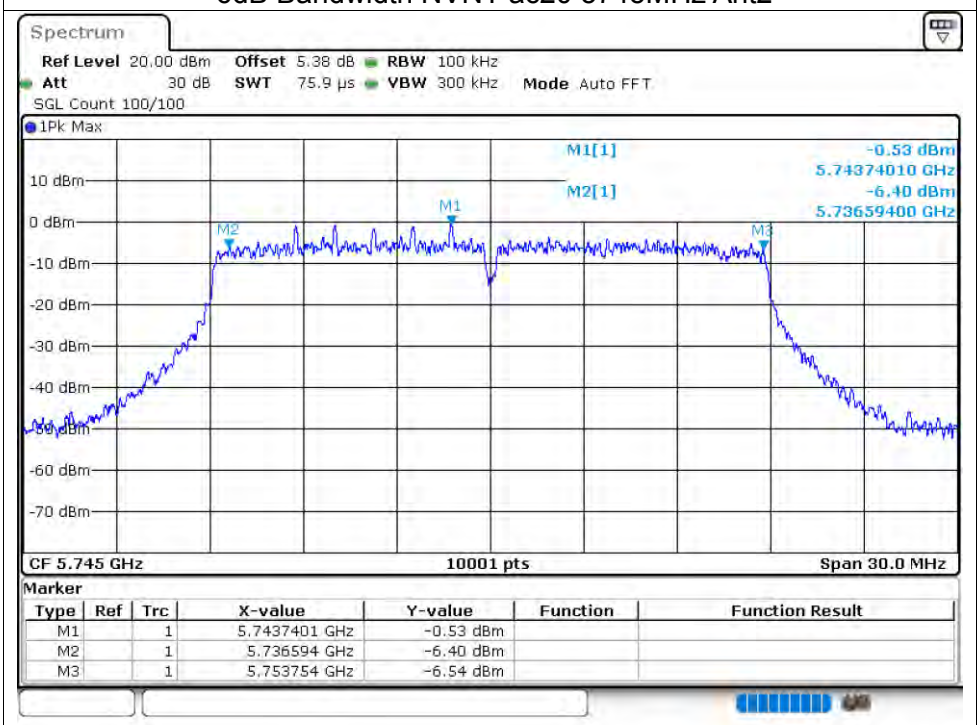


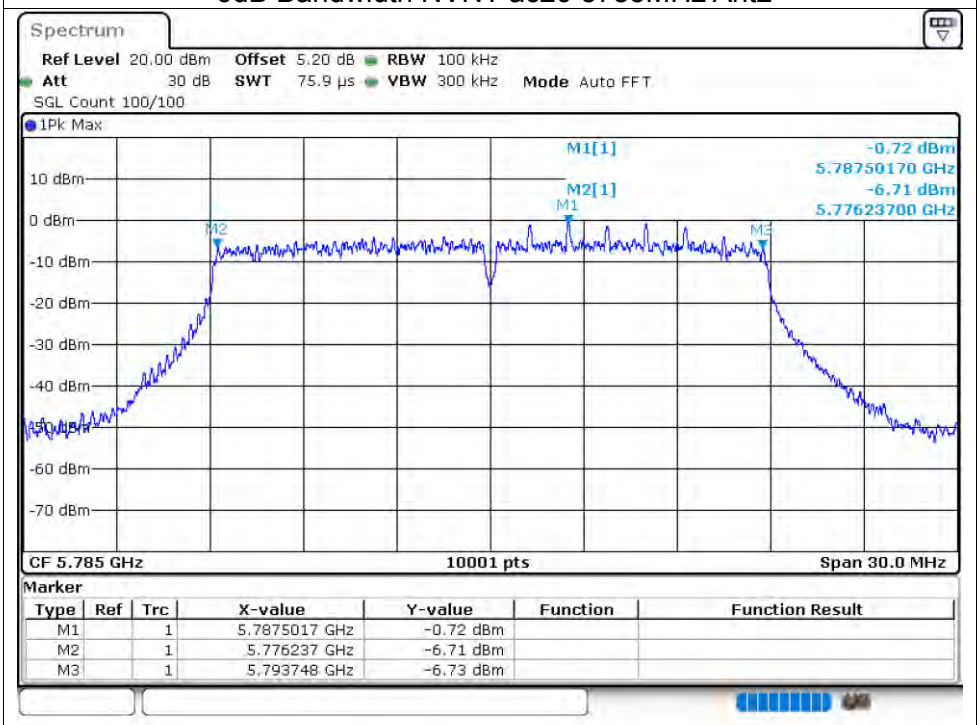
-6dB Bandwidth NVNT ac20 5825MHz Ant1



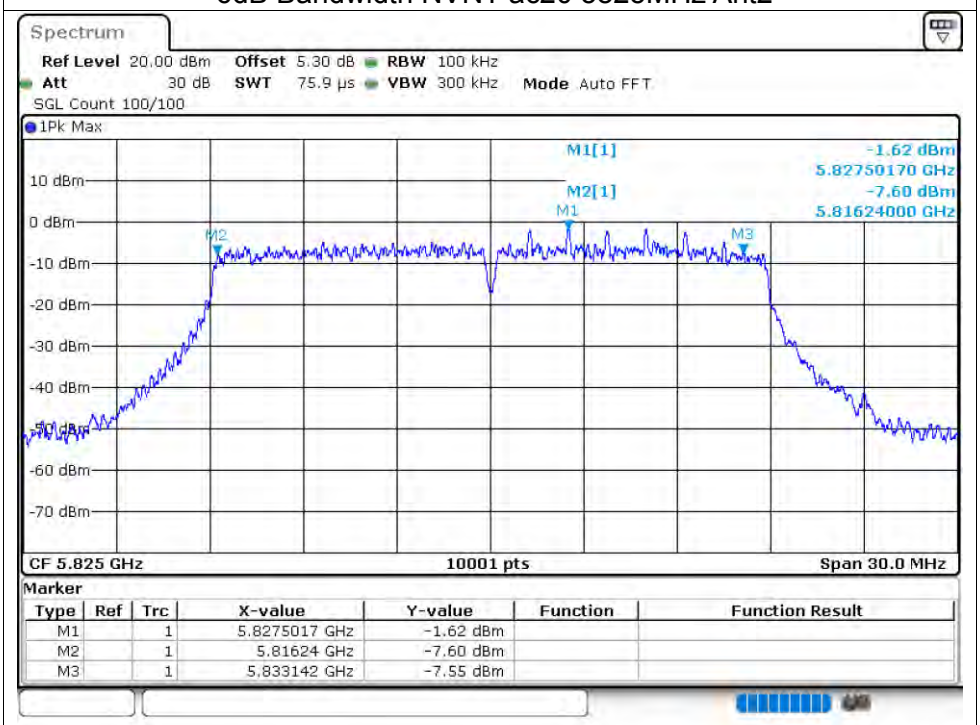
-6dB Bandwidth NVNT ac20 5745MHz Ant2



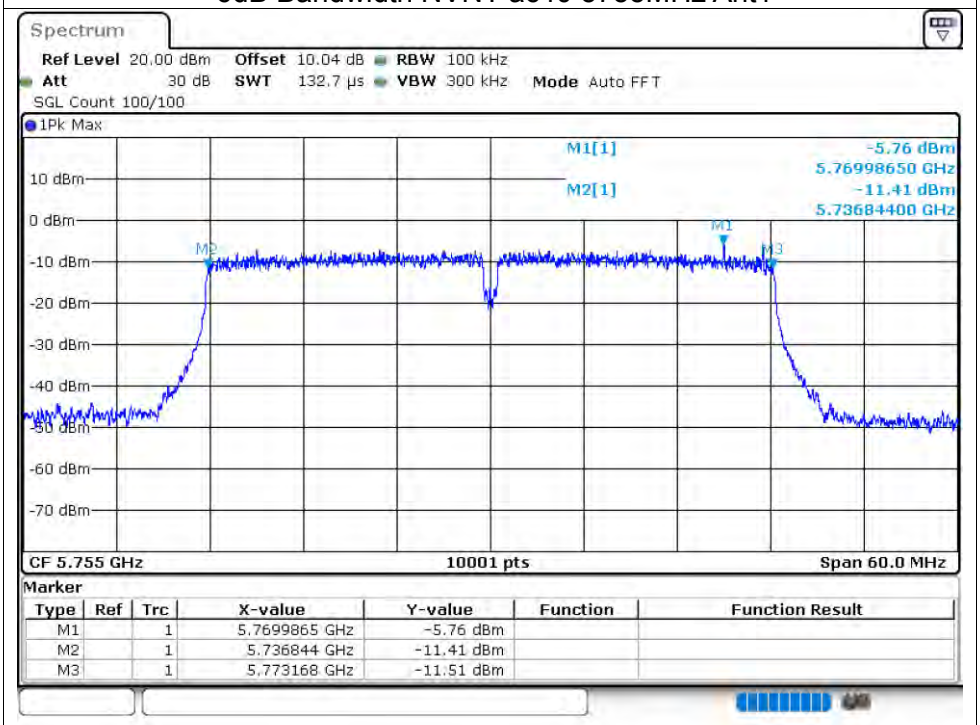
-6dB Bandwidth NVNT ac20 5785MHz Ant2



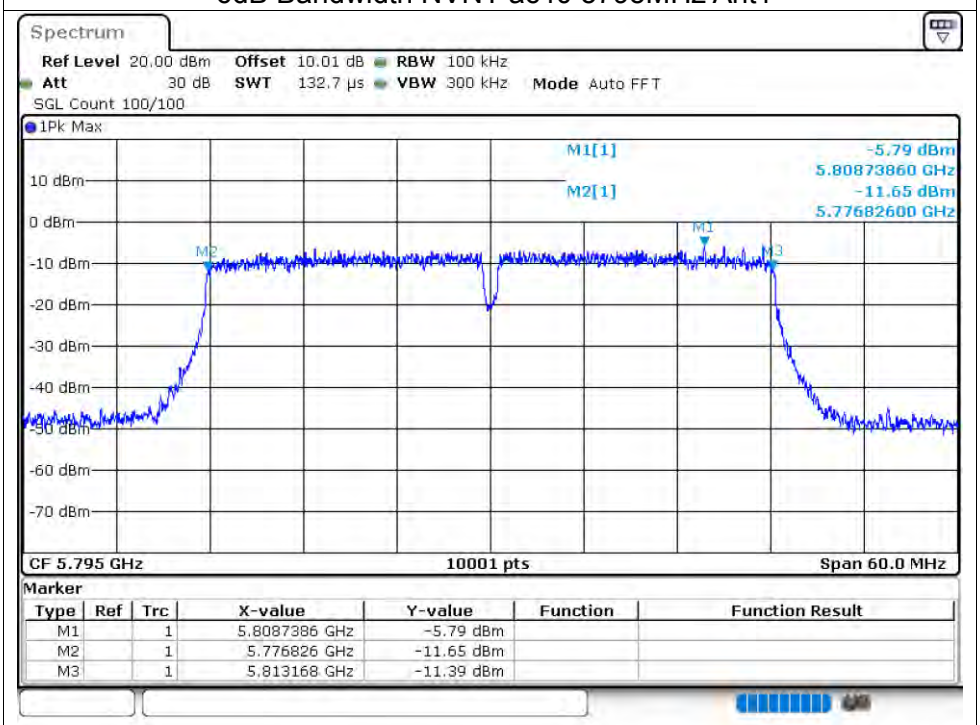
-6dB Bandwidth NVNT ac20 5825MHz Ant2



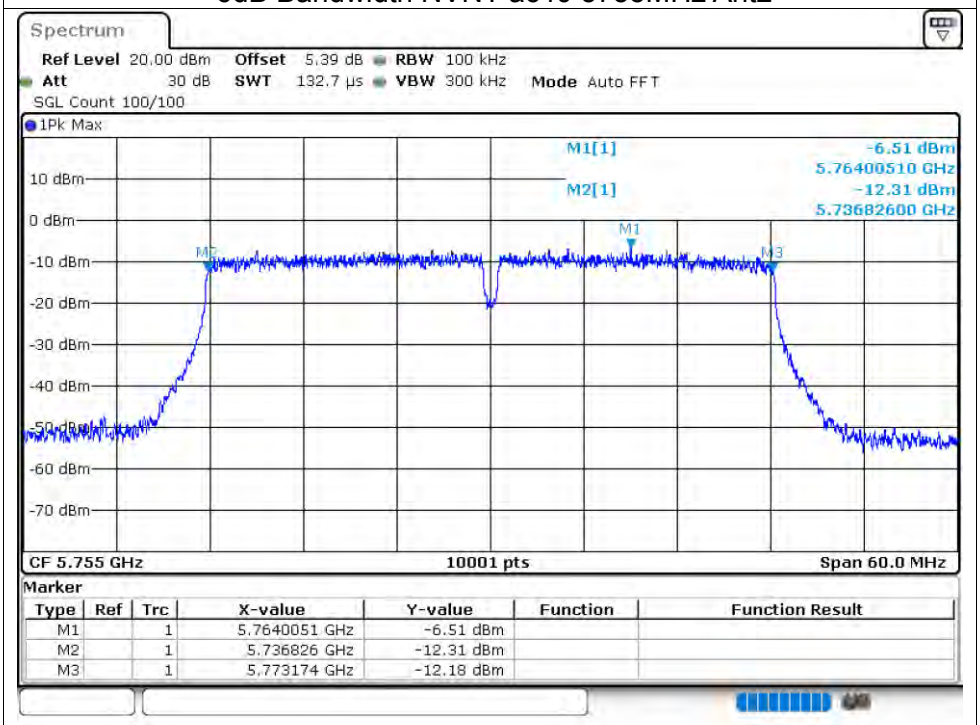
-6dB Bandwidth NVNT ac40 5755MHz Ant1



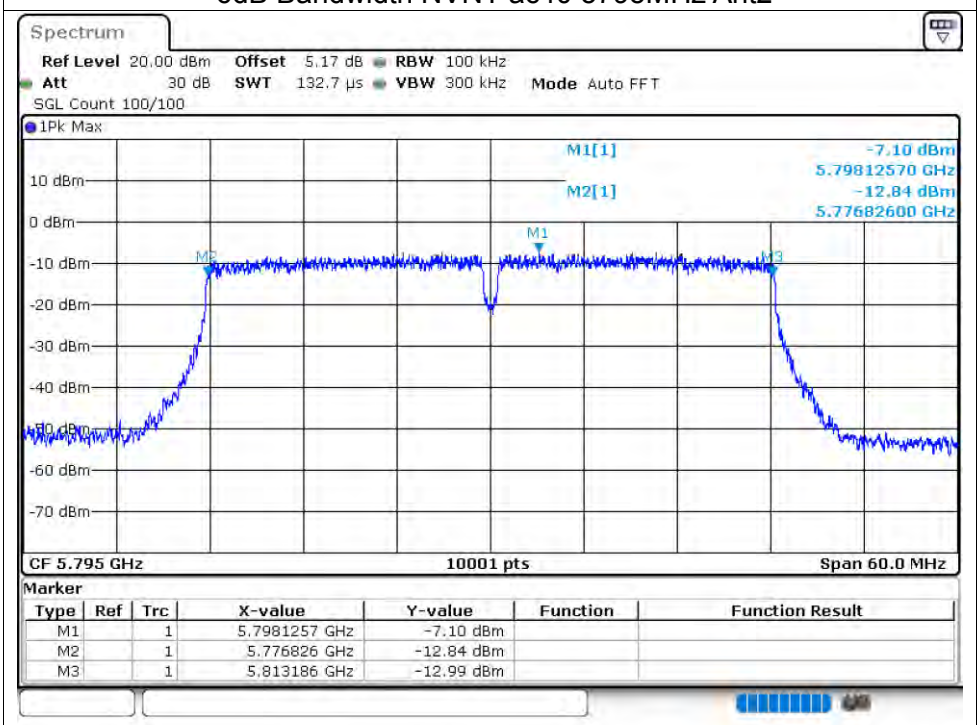
-6dB Bandwidth NVNT ac40 5795MHz Ant1



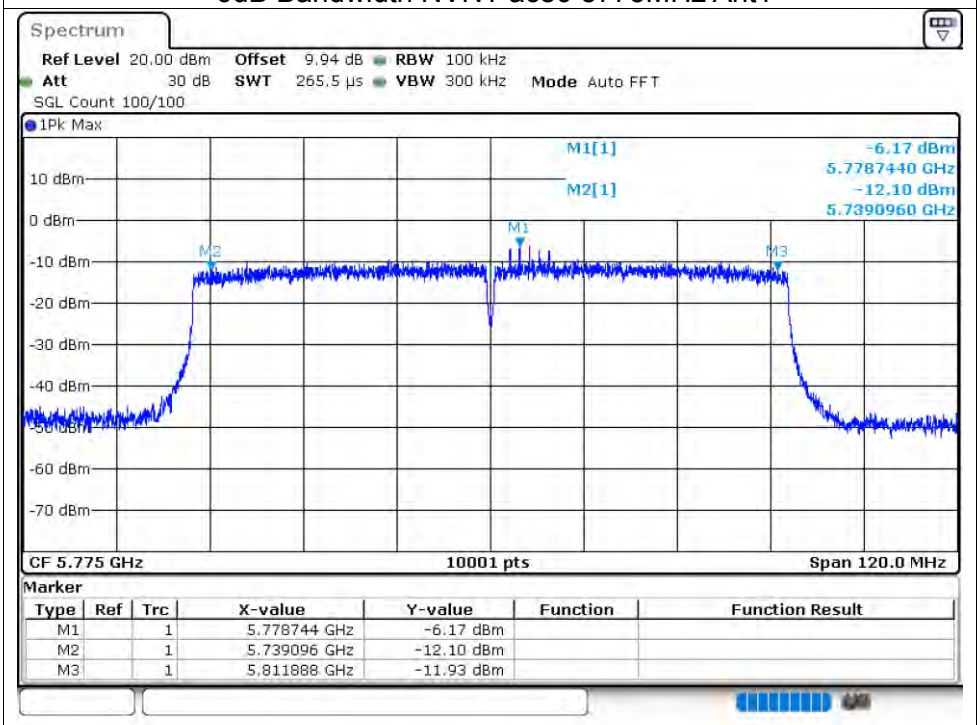
-6dB Bandwidth NVNT ac40 5755MHz Ant2



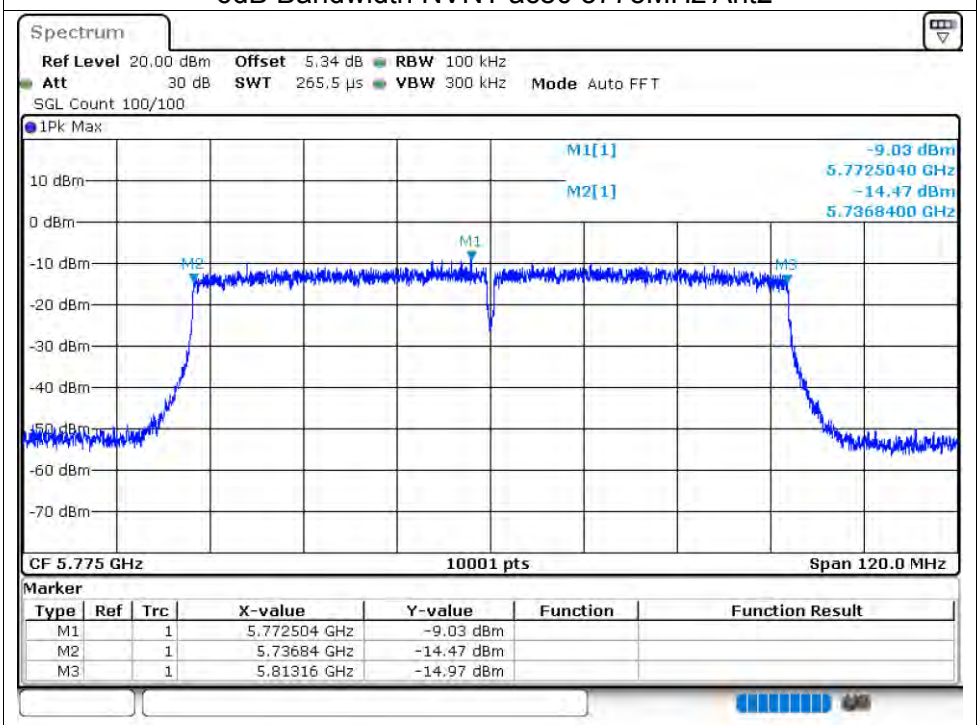
-6dB Bandwidth NVNT ac40 5795MHz Ant2



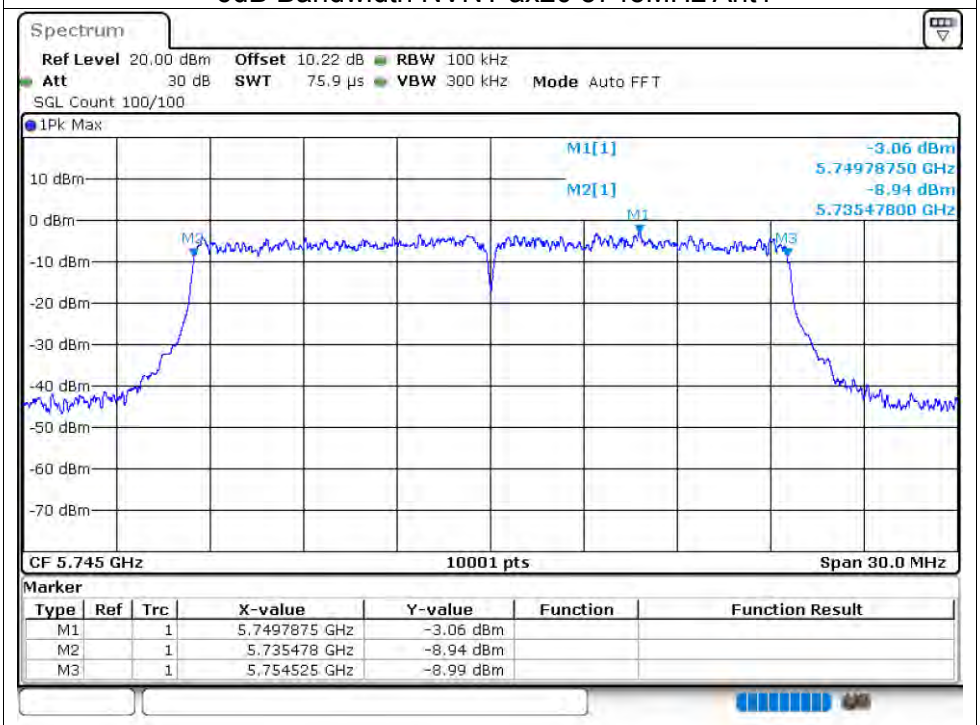
-6dB Bandwidth NVNT ac80 5775MHz Ant1



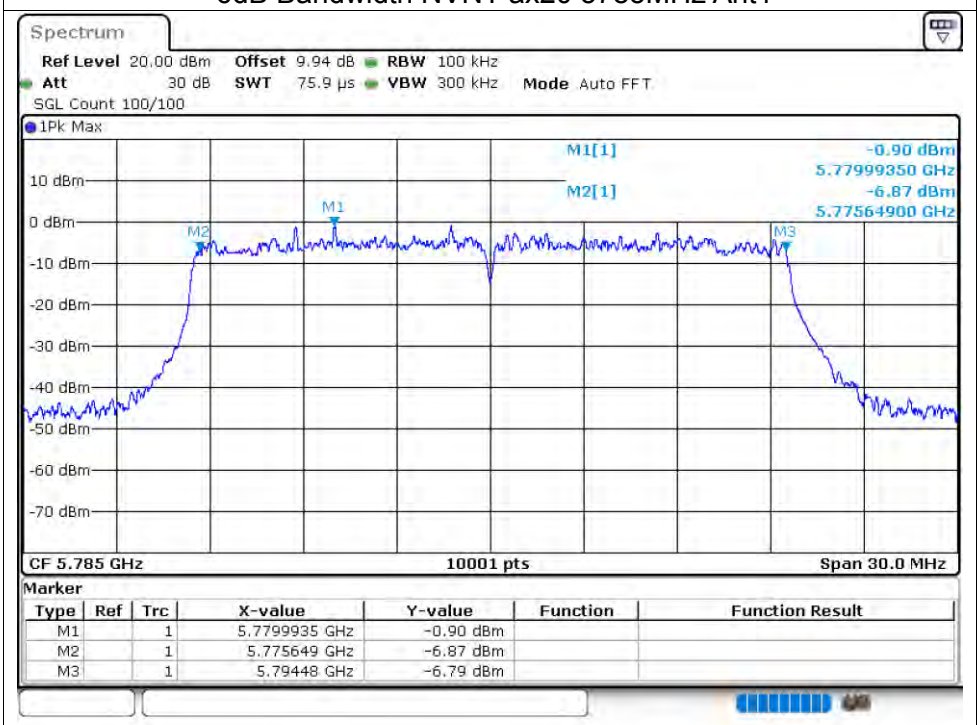
-6dB Bandwidth NVNT ac80 5775MHz Ant2



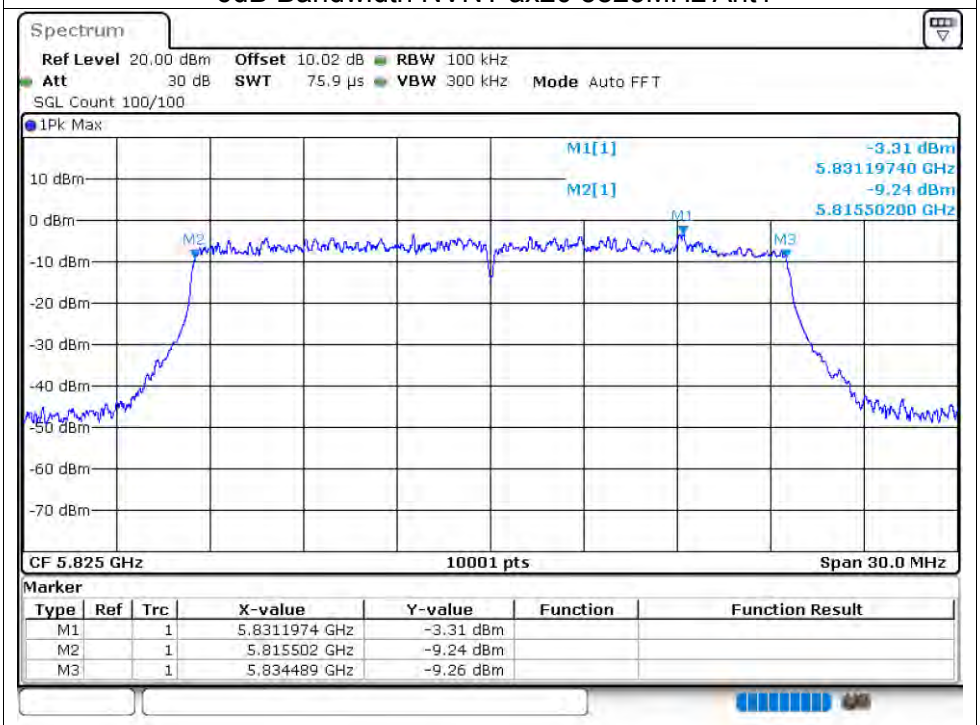
-6dB Bandwidth NVNT ax20 5745MHz Ant1



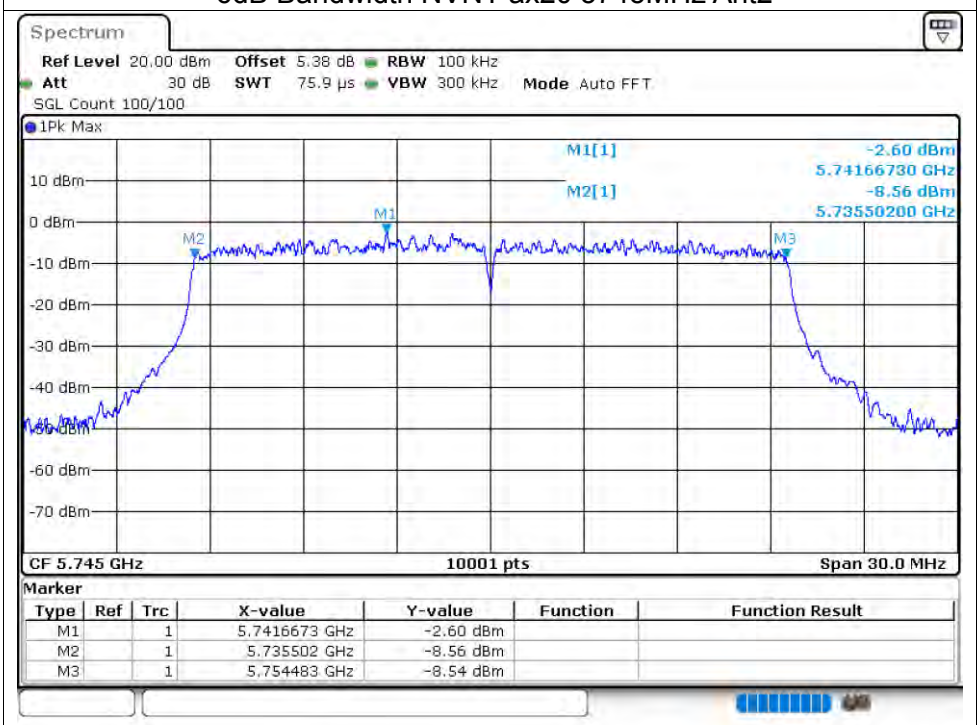
-6dB Bandwidth NVNT ax20 5785MHz Ant1



-6dB Bandwidth NVNT ax20 5825MHz Ant1



-6dB Bandwidth NVNT ax20 5745MHz Ant2



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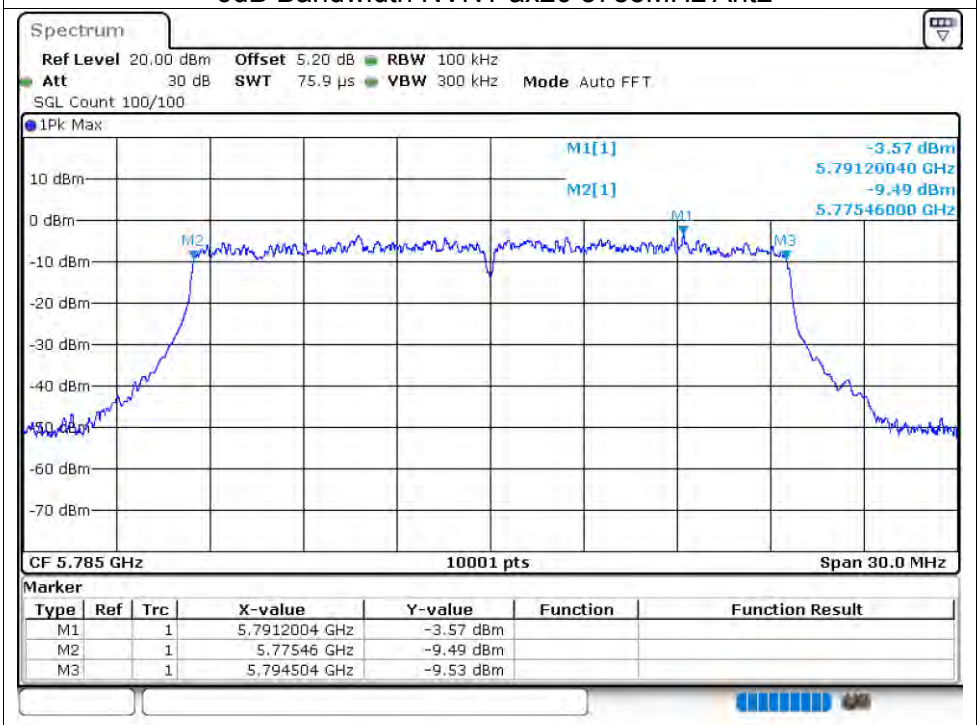
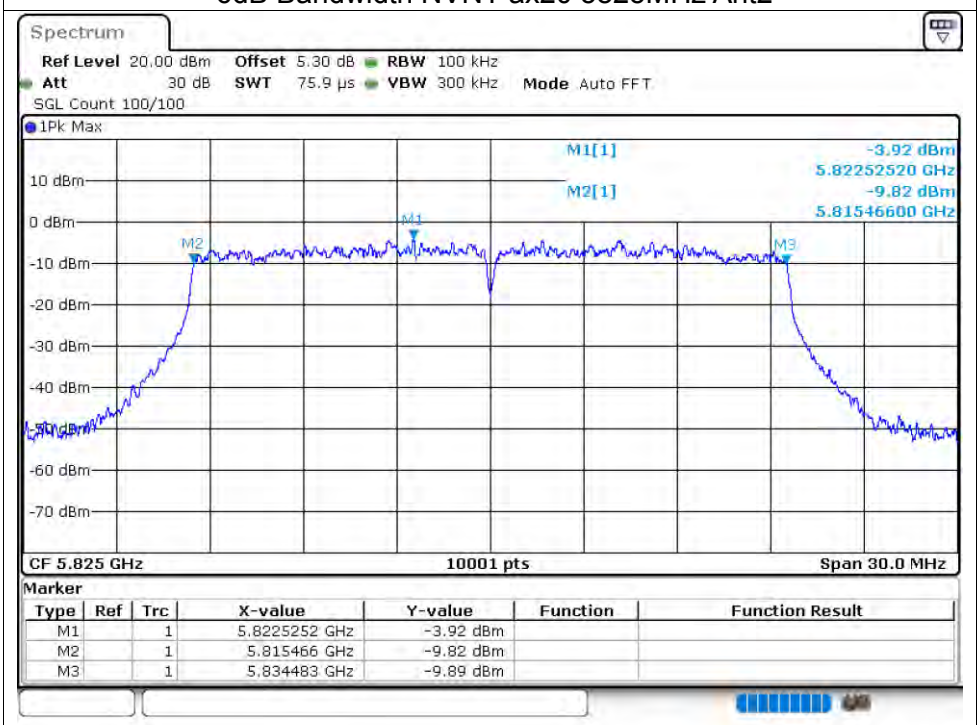
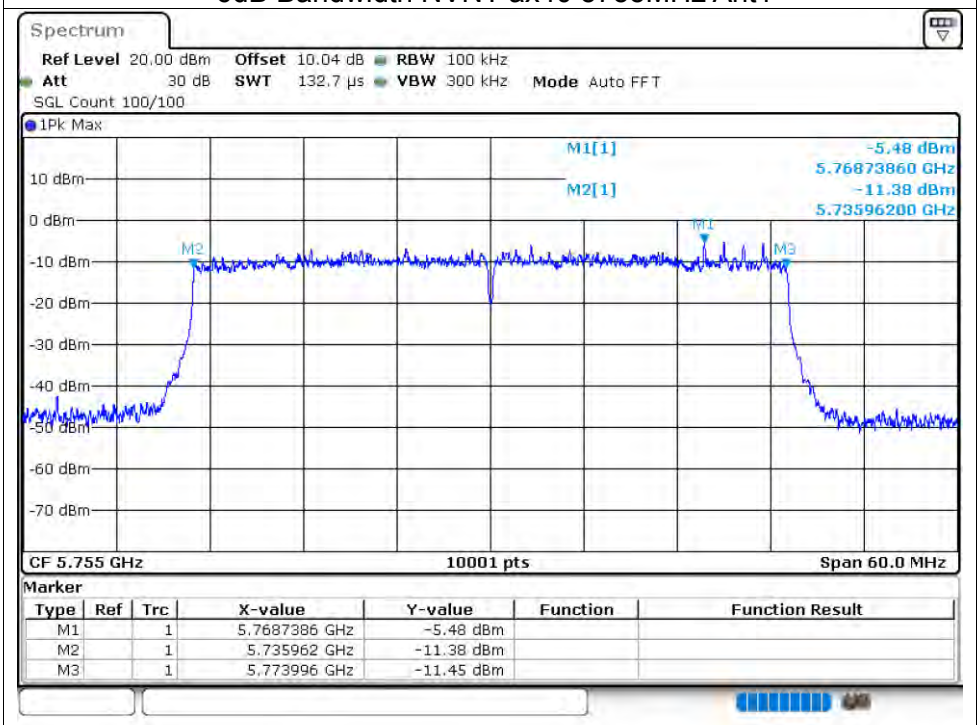


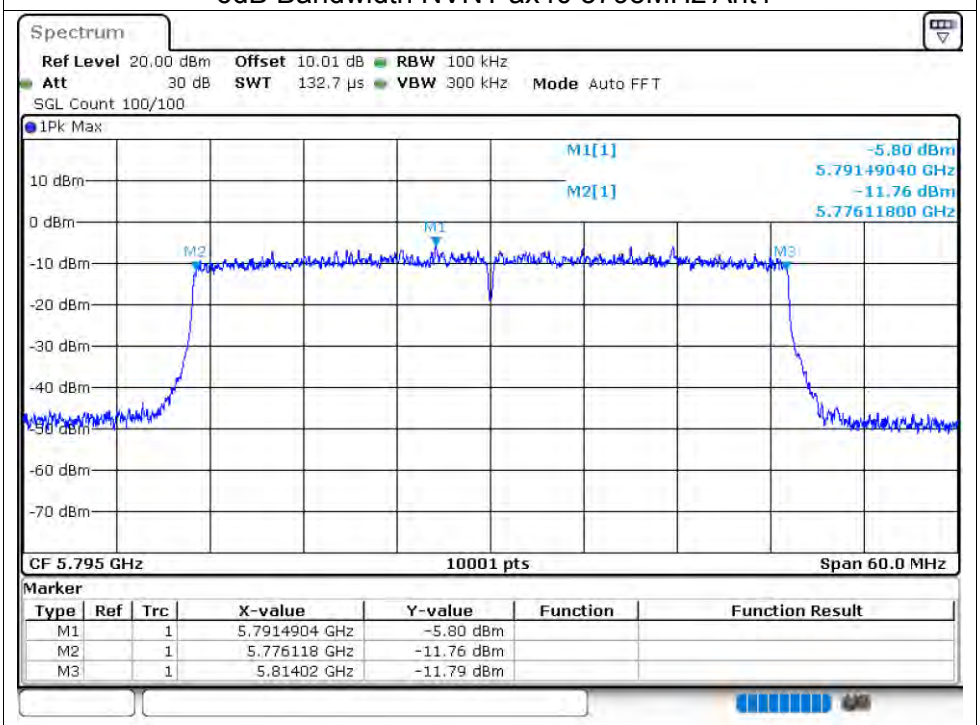
-6dB Bandwidth NVNT ax20 5825MHz Ant2



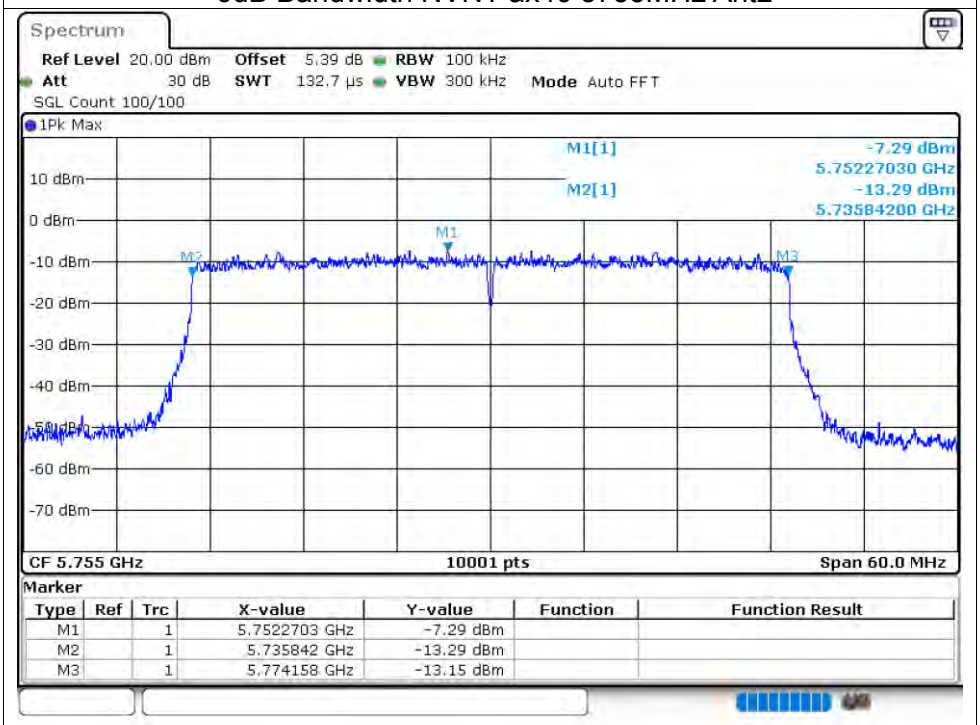
-6dB Bandwidth NVNT ax40 5755MHz Ant1



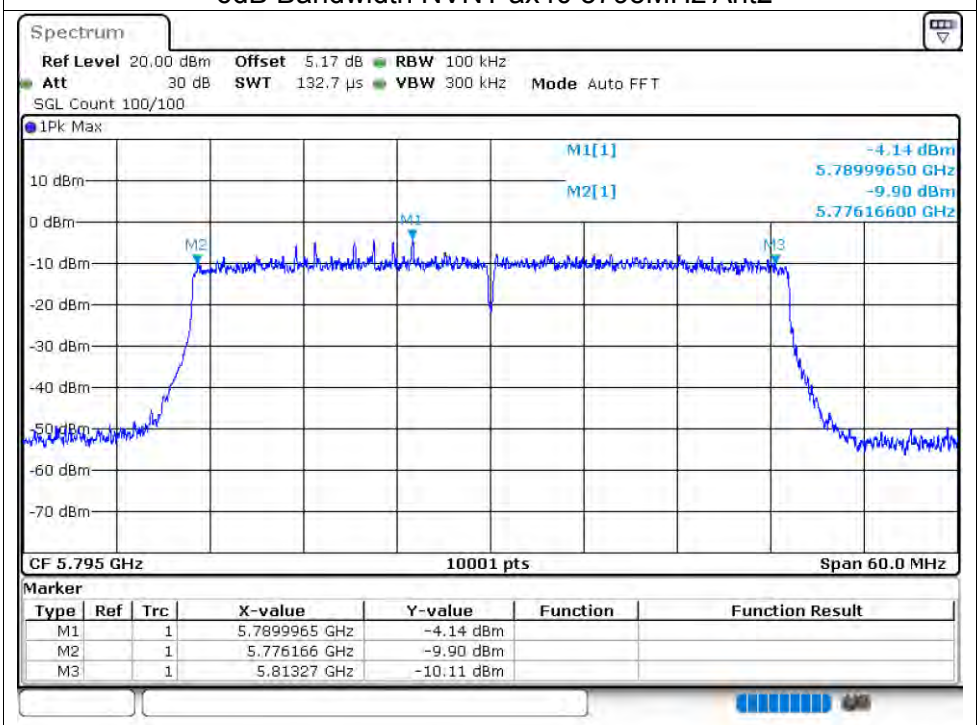
-6dB Bandwidth NVNT ax40 5795MHz Ant1



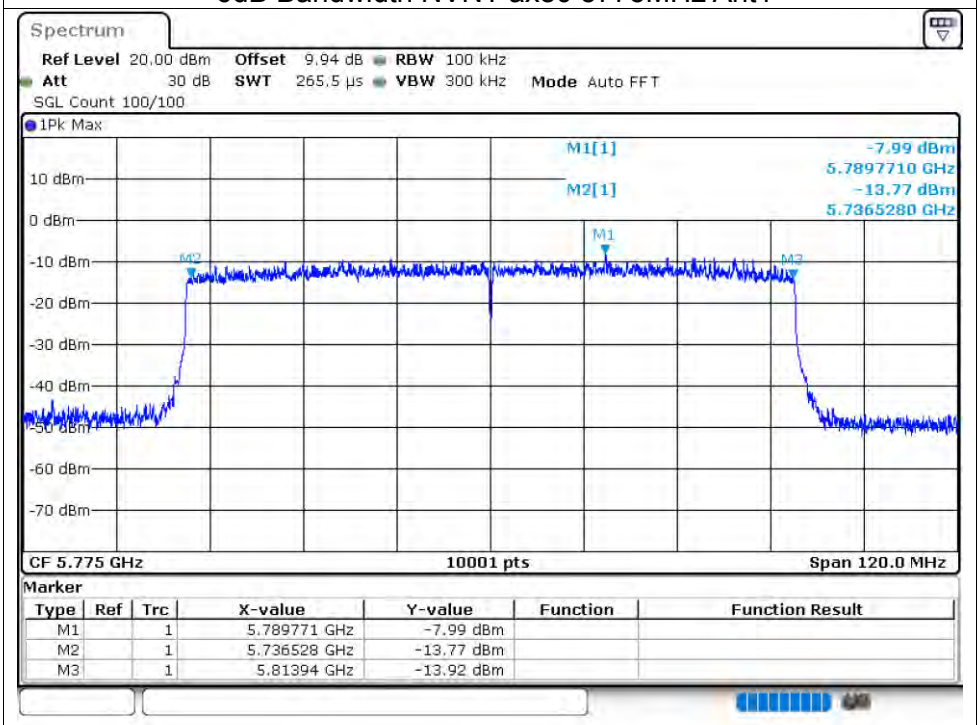
-6dB Bandwidth NVNT ax40 5755MHz Ant2



-6dB Bandwidth NVNT ax40 5795MHz Ant2



-6dB Bandwidth NVNT ax80 5775MHz Ant1



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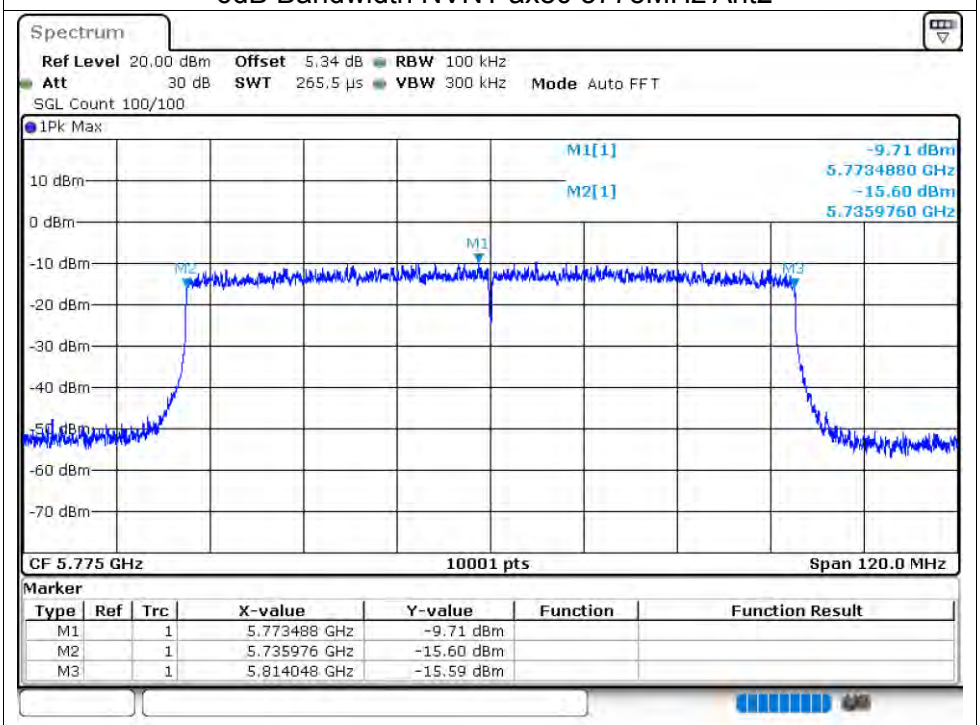
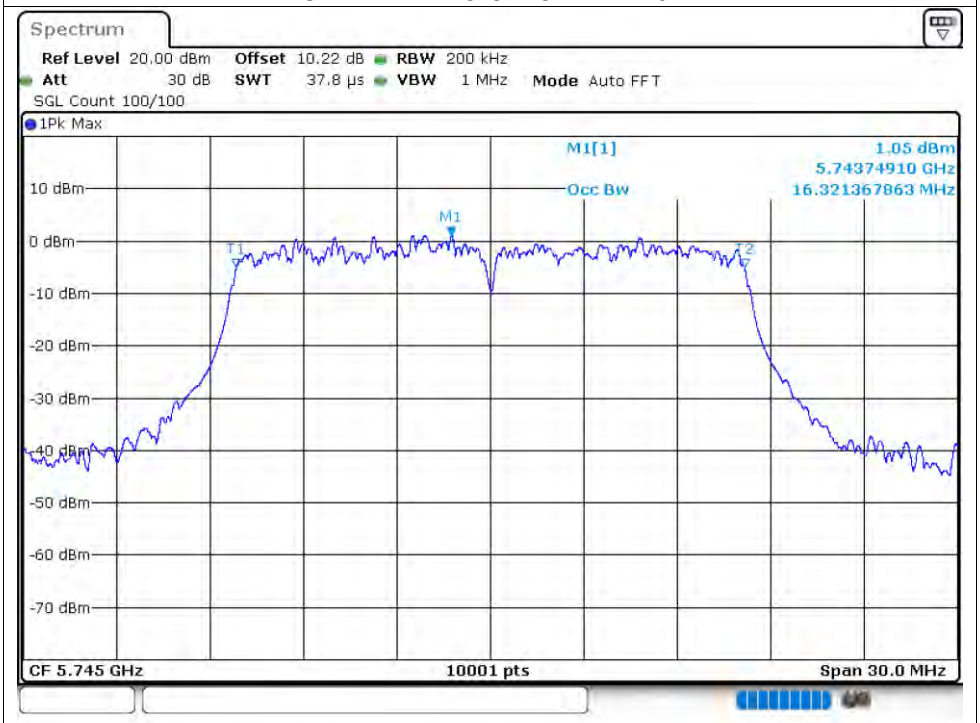


7.4.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.321
NVNT	a	5785	Ant1	16.414
NVNT	a	5825	Ant1	16.36
NVNT	a	5745	Ant2	16.312
NVNT	a	5785	Ant2	16.414
NVNT	a	5825	Ant2	16.381
NVNT	n20	5745	Ant1	17.548
NVNT	n20	5785	Ant1	17.545
NVNT	n20	5825	Ant1	17.56
NVNT	n20	5745	Ant2	17.623
NVNT	n20	5785	Ant2	17.551
NVNT	n20	5825	Ant2	17.587
NVNT	n40	5755	Ant1	36.074
NVNT	n40	5795	Ant1	36.062
NVNT	n40	5755	Ant2	36.08
NVNT	n40	5795	Ant2	36.056
NVNT	ac20	5745	Ant1	17.563
NVNT	ac20	5785	Ant1	17.572
NVNT	ac20	5825	Ant1	17.578
NVNT	ac20	5745	Ant2	17.563
NVNT	ac20	5785	Ant2	17.536
NVNT	ac20	5825	Ant2	17.575
NVNT	ac40	5755	Ant1	36.086
NVNT	ac40	5795	Ant1	36.074
NVNT	ac40	5755	Ant2	36.086
NVNT	ac40	5795	Ant2	36.062
NVNT	ac80	5775	Ant1	75.412
NVNT	ac80	5775	Ant2	75.424
NVNT	ax20	5745	Ant1	18.901
NVNT	ax20	5785	Ant1	18.97
NVNT	ax20	5825	Ant1	18.925
NVNT	ax20	5745	Ant2	18.907
NVNT	ax20	5785	Ant2	18.874
NVNT	ax20	5825	Ant2	18.943
NVNT	ax40	5755	Ant1	37.73
NVNT	ax40	5795	Ant1	37.718
NVNT	ax40	5755	Ant2	37.724
NVNT	ax40	5795	Ant2	37.712
NVNT	ax80	5775	Ant1	77.176
NVNT	ax80	5775	Ant2	77.152

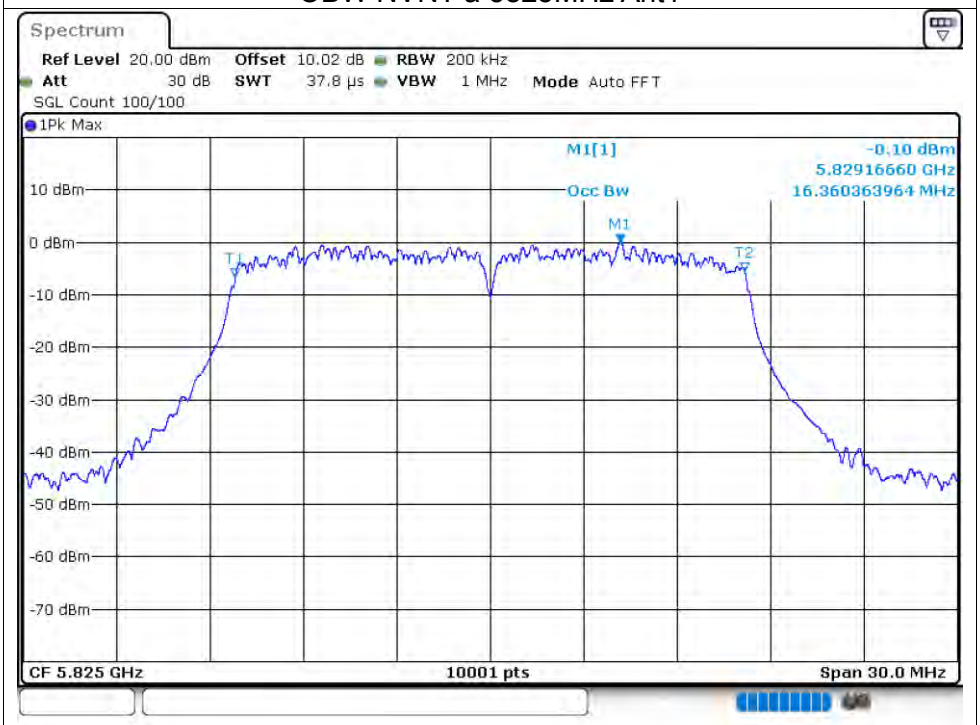
Test Graphs

OBW NVNT a 5745MHz Ant1

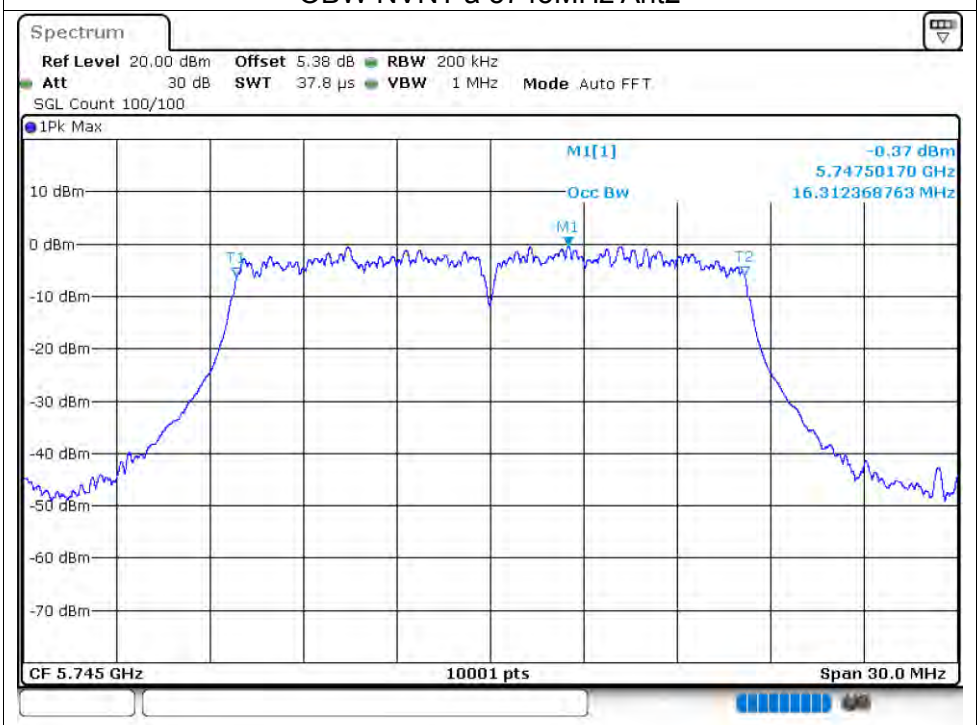


OBW NVNT a 5785MHz Ant1

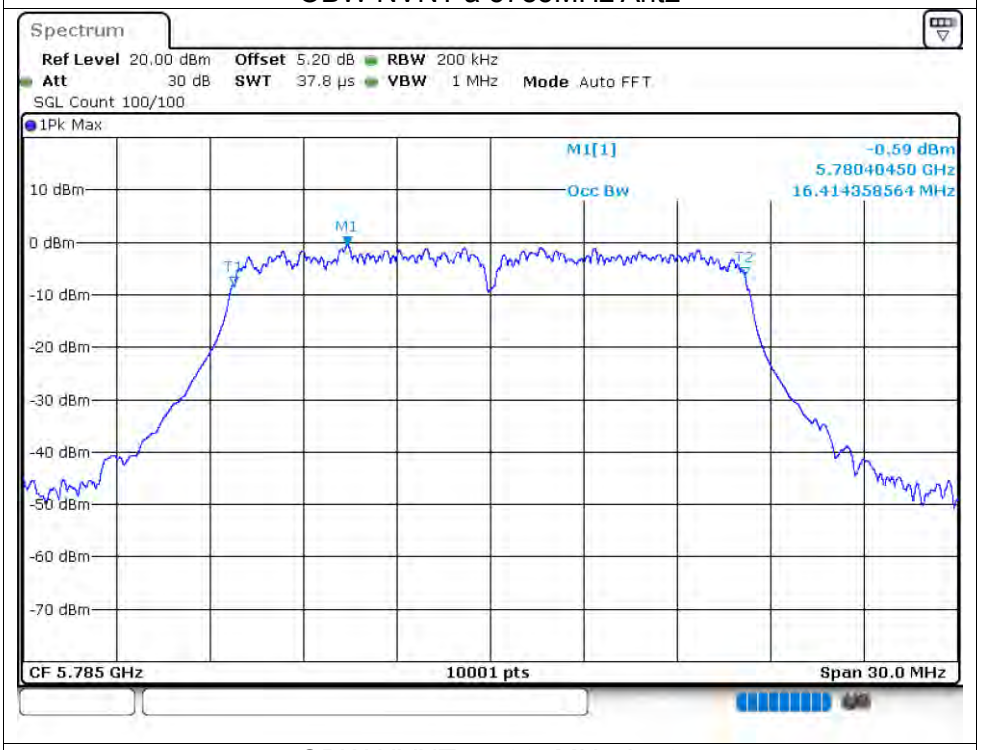
OBW NVNT a 5825MHz Ant1



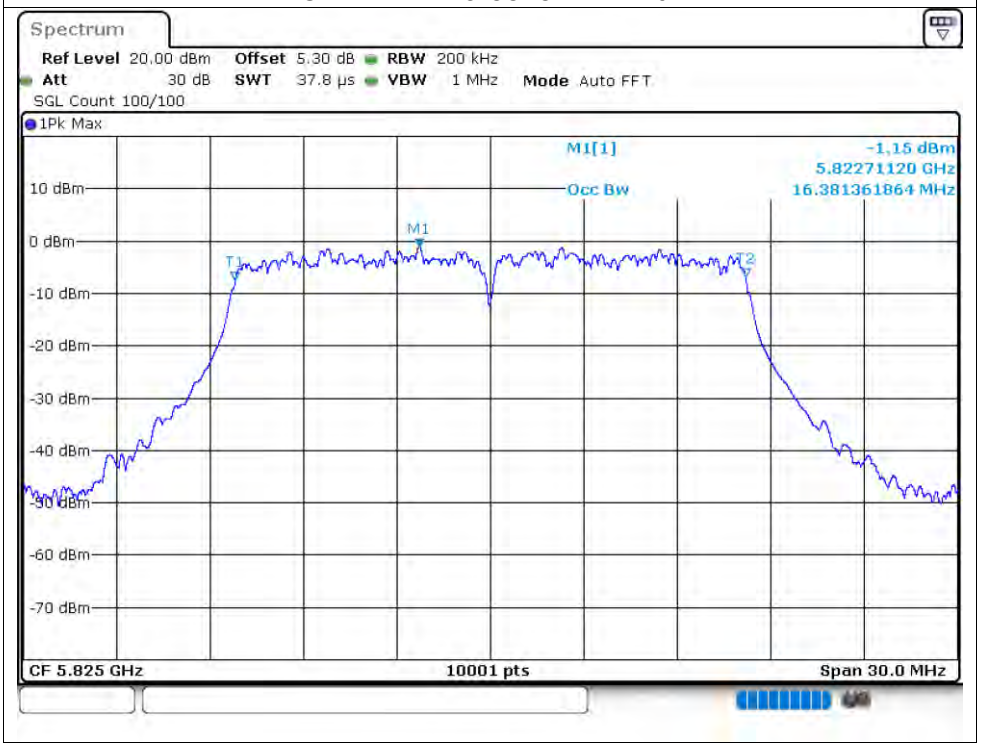
OBW NVNT a 5745MHz Ant2



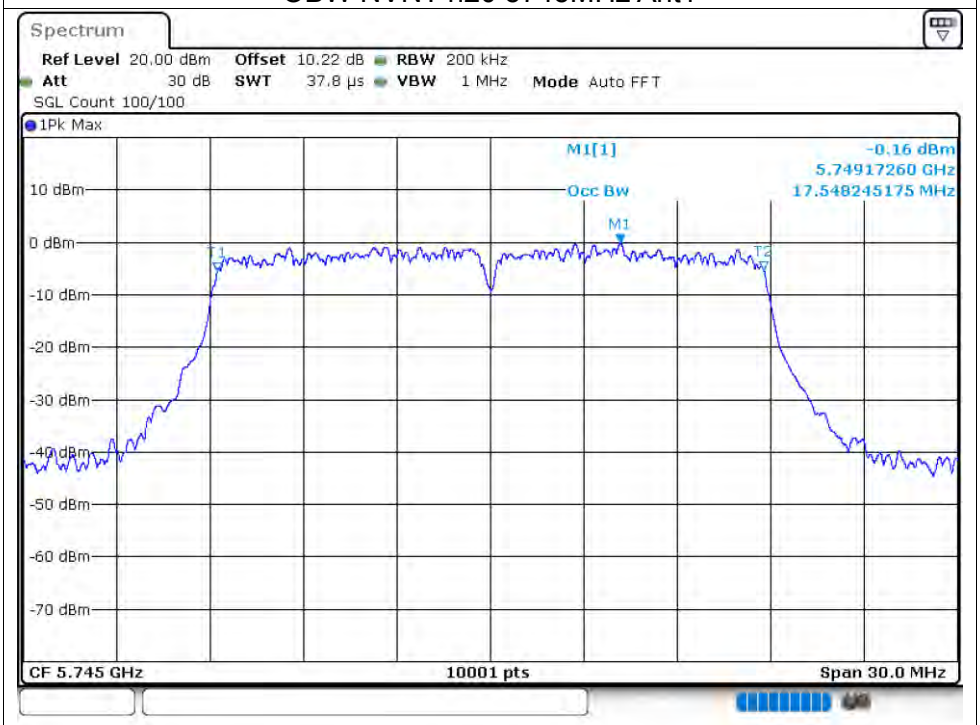
OBW NVNT a 5785MHz Ant2



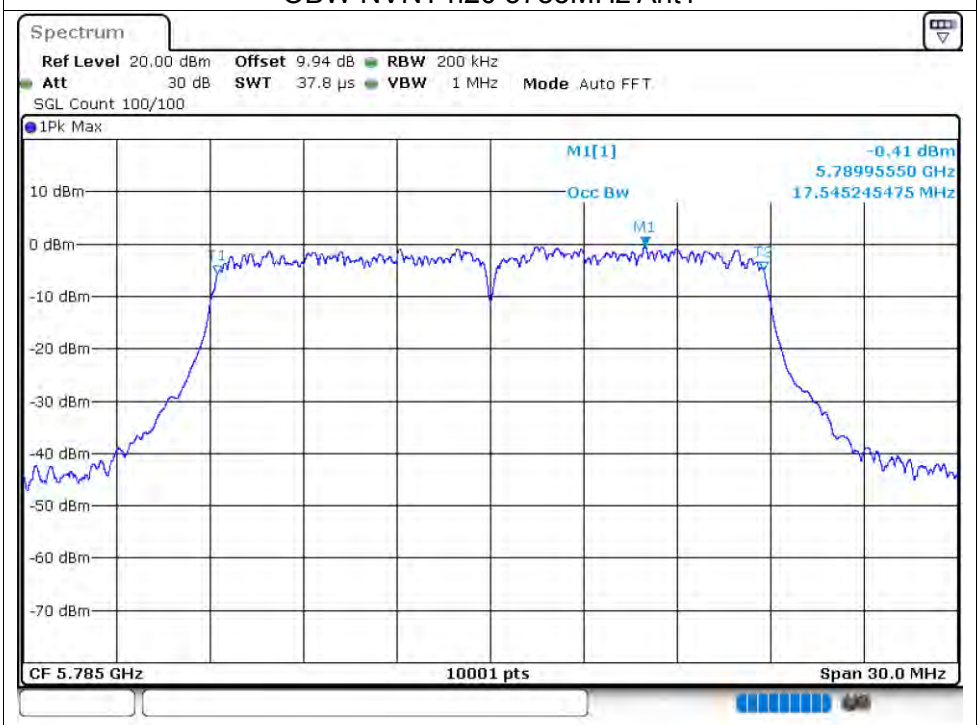
OBW NVNT a 5825MHz Ant2



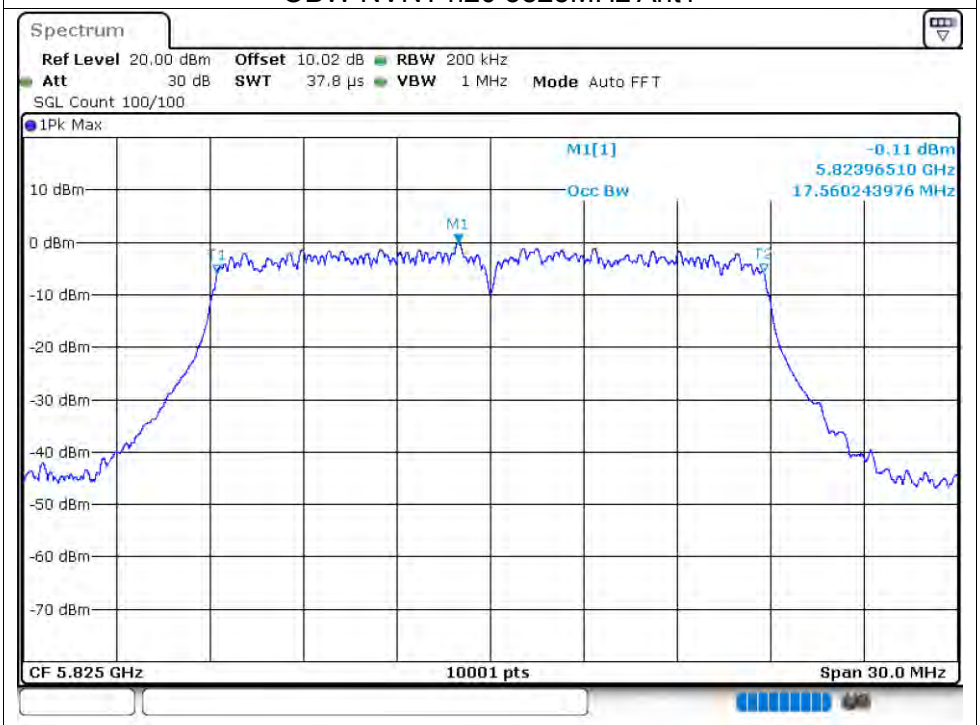
OBW NVNT n20 5745MHz Ant1



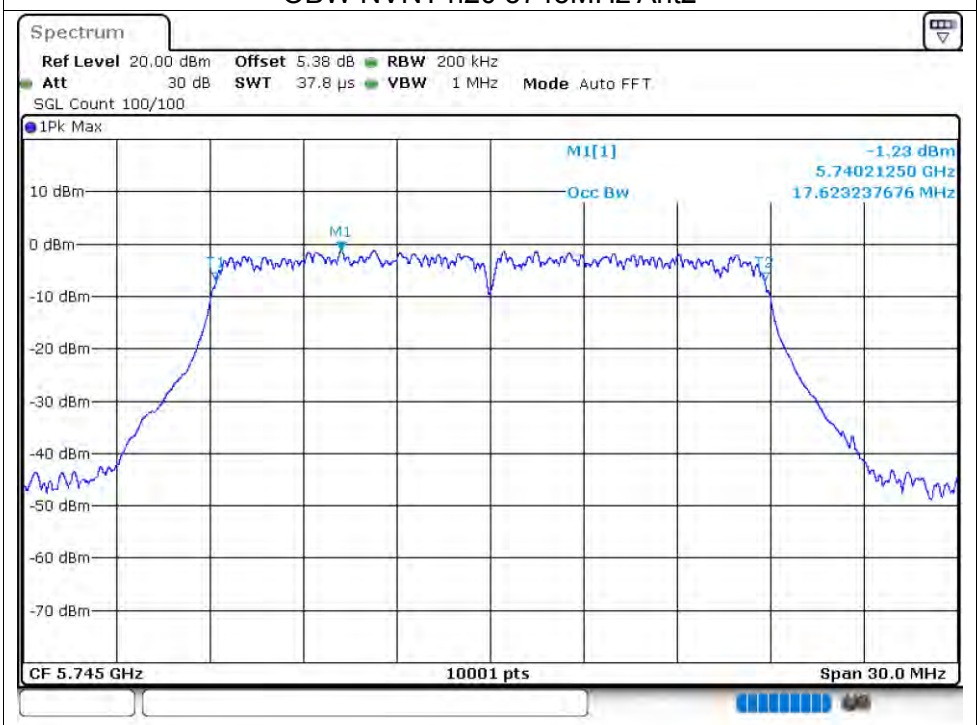
OBW NVNT n20 5785MHz Ant1



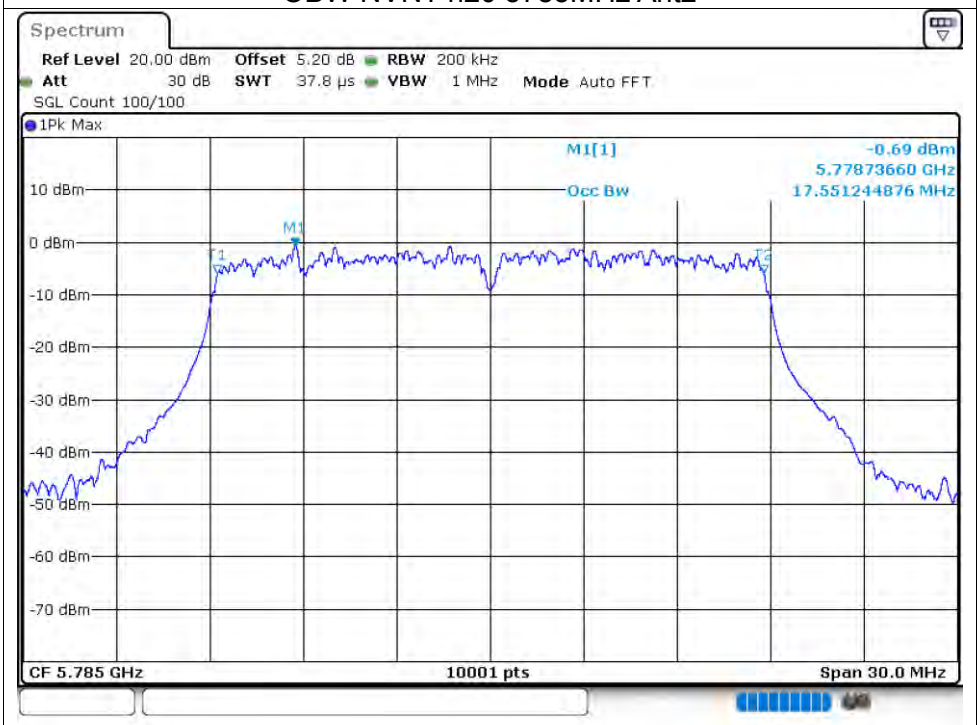
OBW NVNT n20 5825MHz Ant1



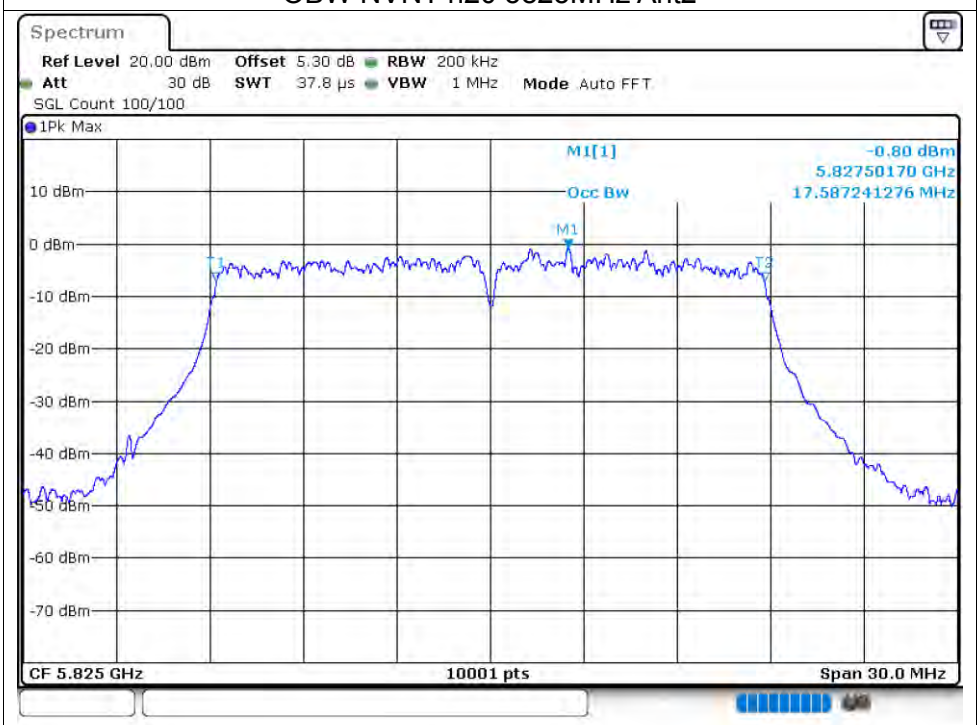
OBW NVNT n20 5745MHz Ant2



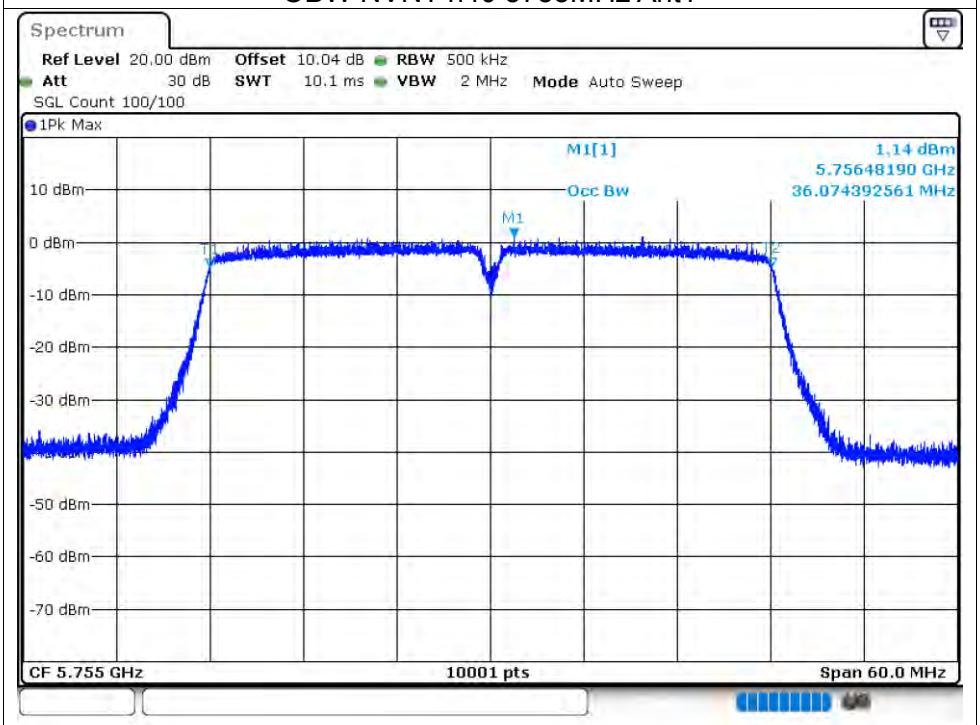
OBW NVNT n20 5785MHz Ant2



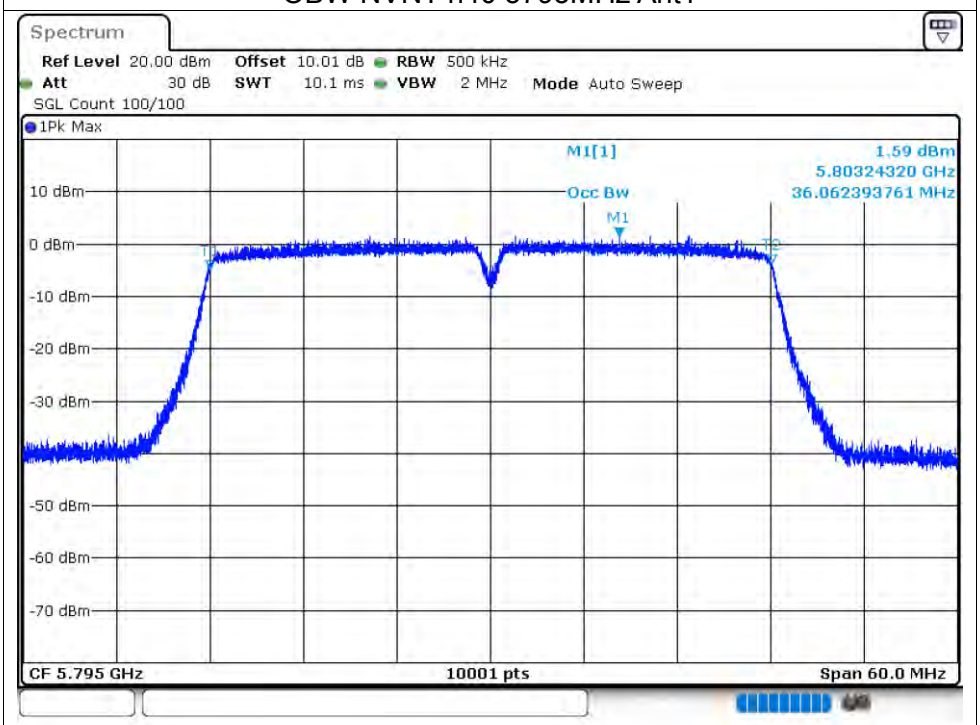
OBW NVNT n20 5825MHz Ant2



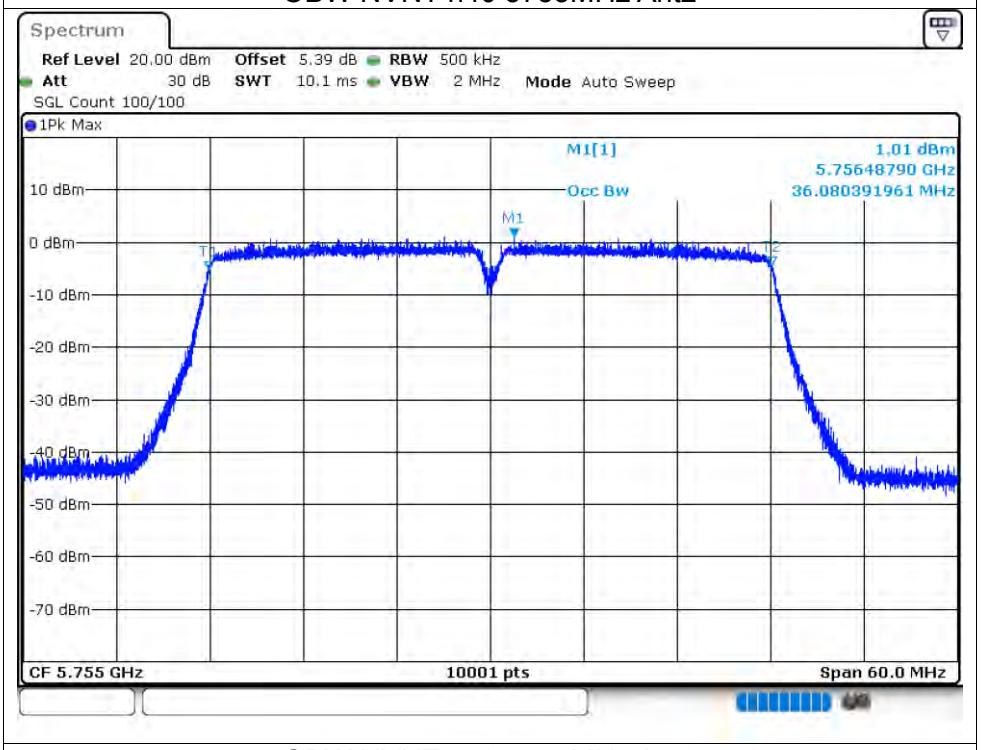
OBW NVNT n40 5755MHz Ant1



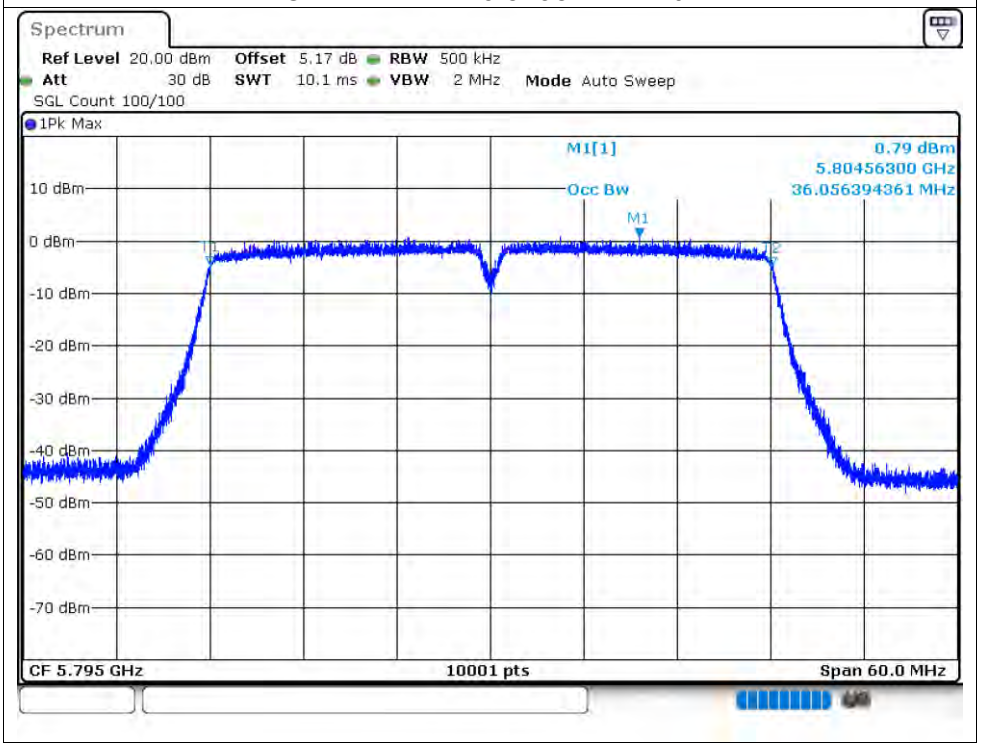
OBW NVNT n40 5795MHz Ant1



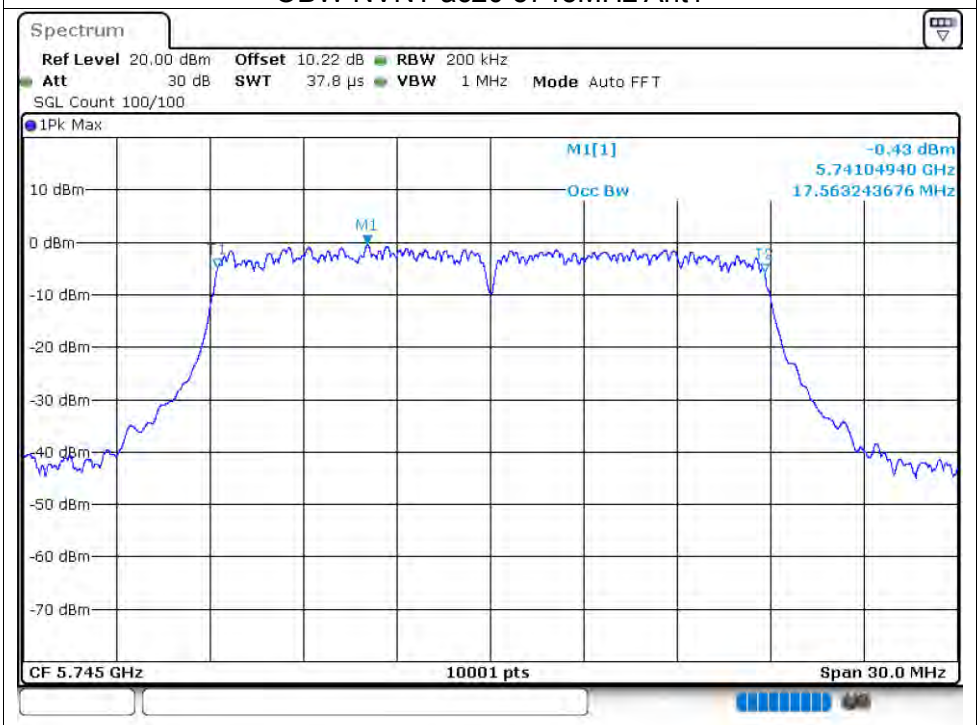
OBW NVNT n40 5755MHz Ant2



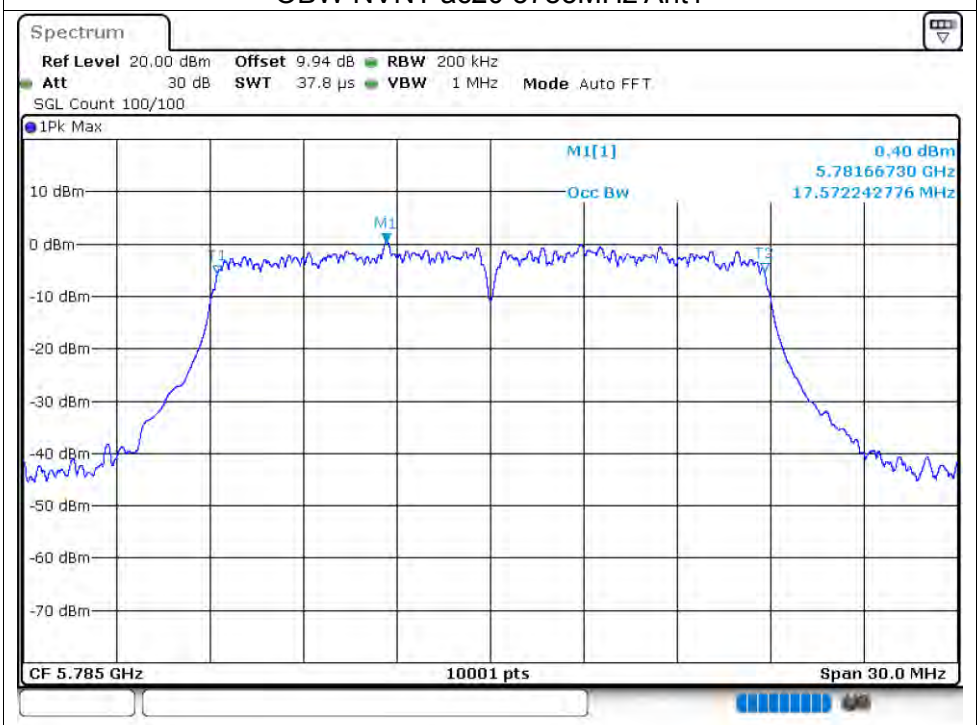
OBW NVNT n40 5795MHz Ant2



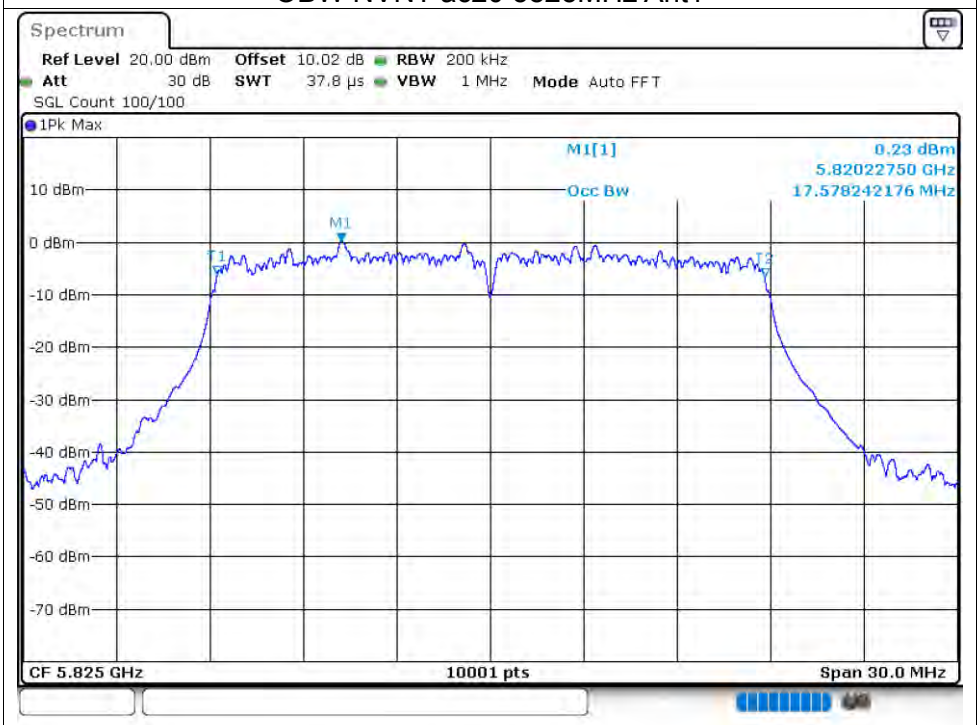
OBW NVNT ac20 5745MHz Ant1



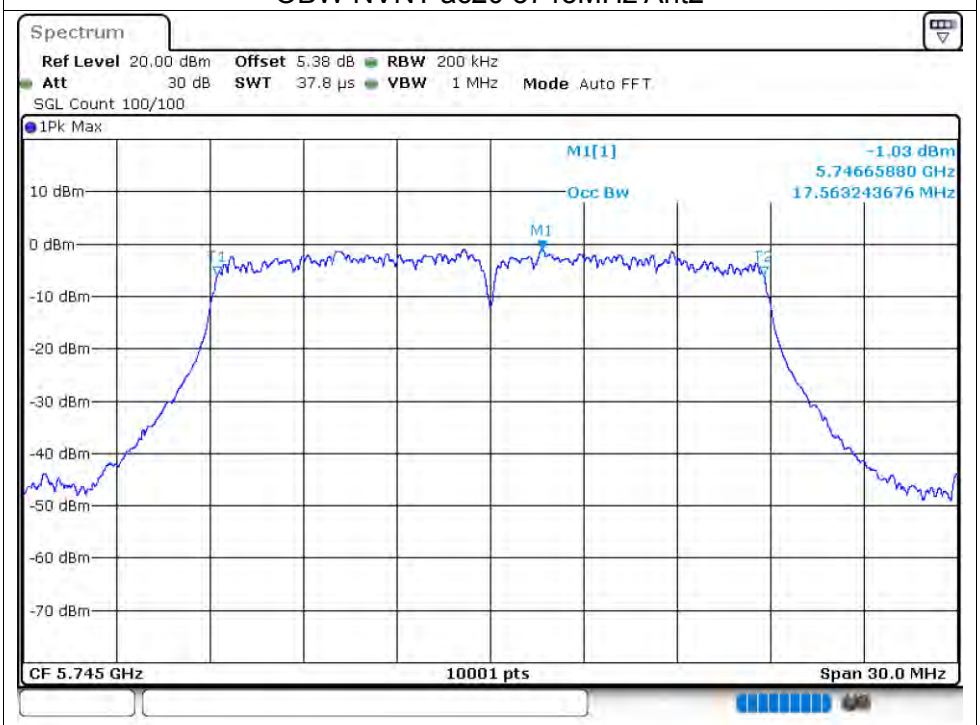
OBW NVNT ac20 5785MHz Ant1



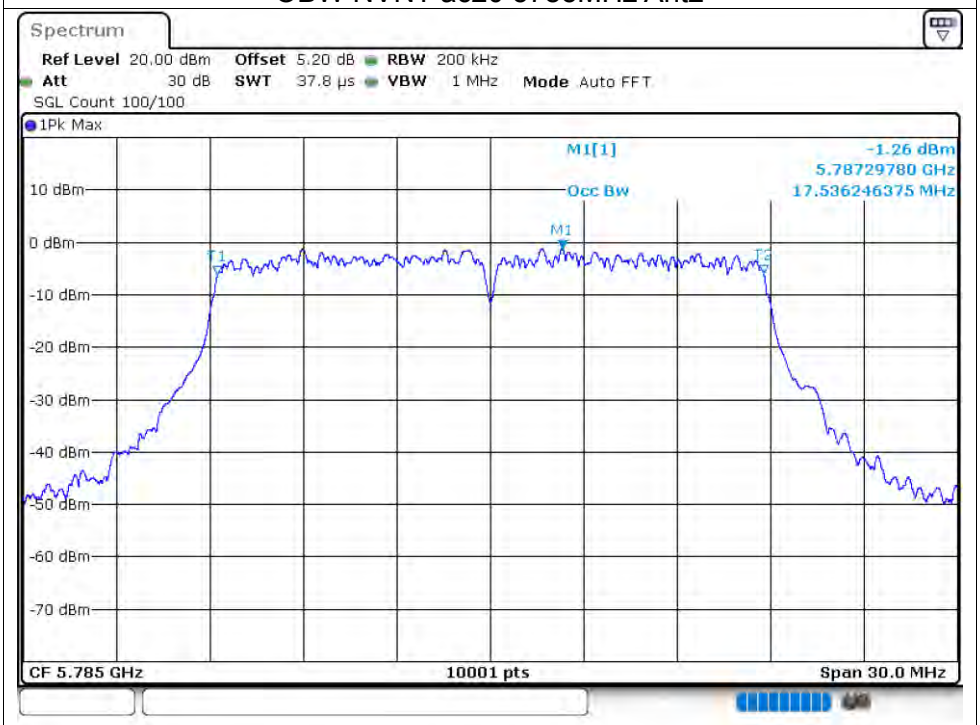
OBW NVNT ac20 5825MHz Ant1



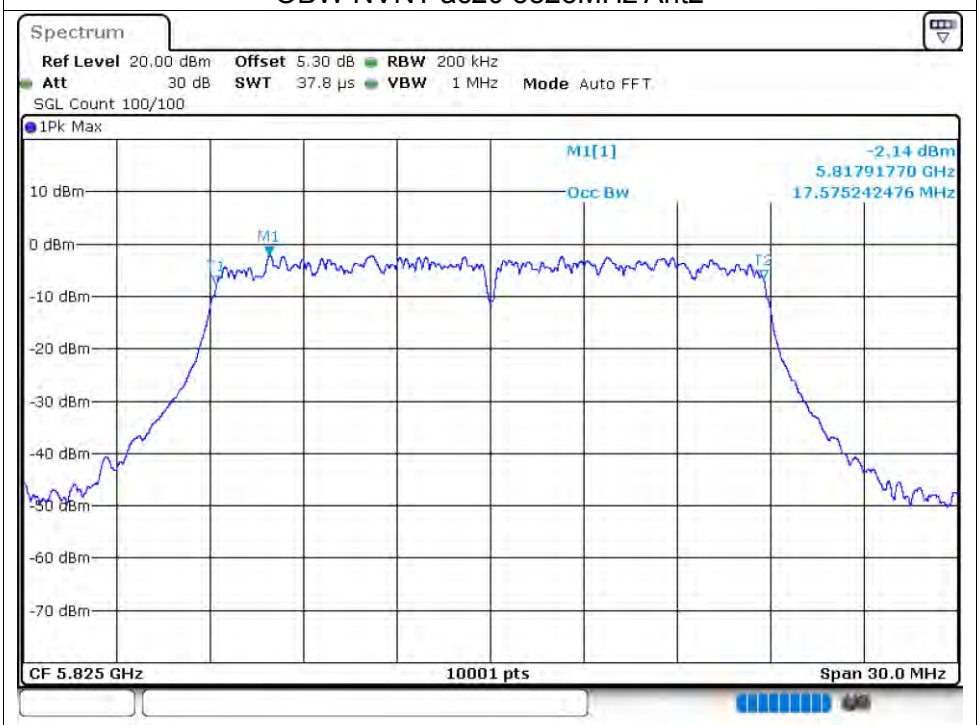
OBW NVNT ac20 5745MHz Ant2



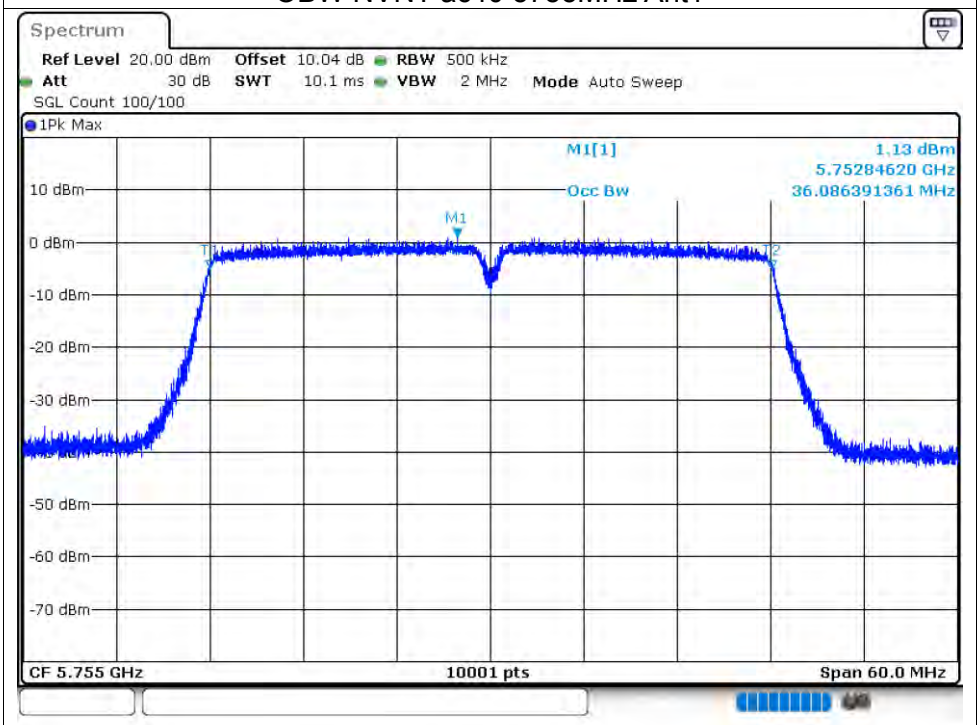
OBW NVNT ac20 5785MHz Ant2



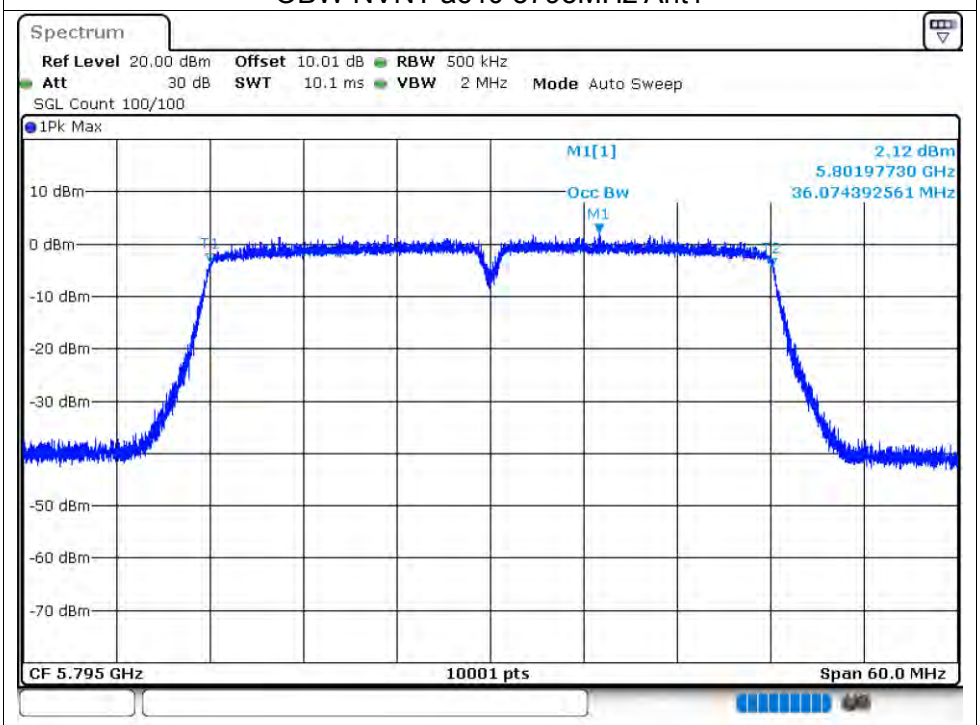
OBW NVNT ac20 5825MHz Ant2



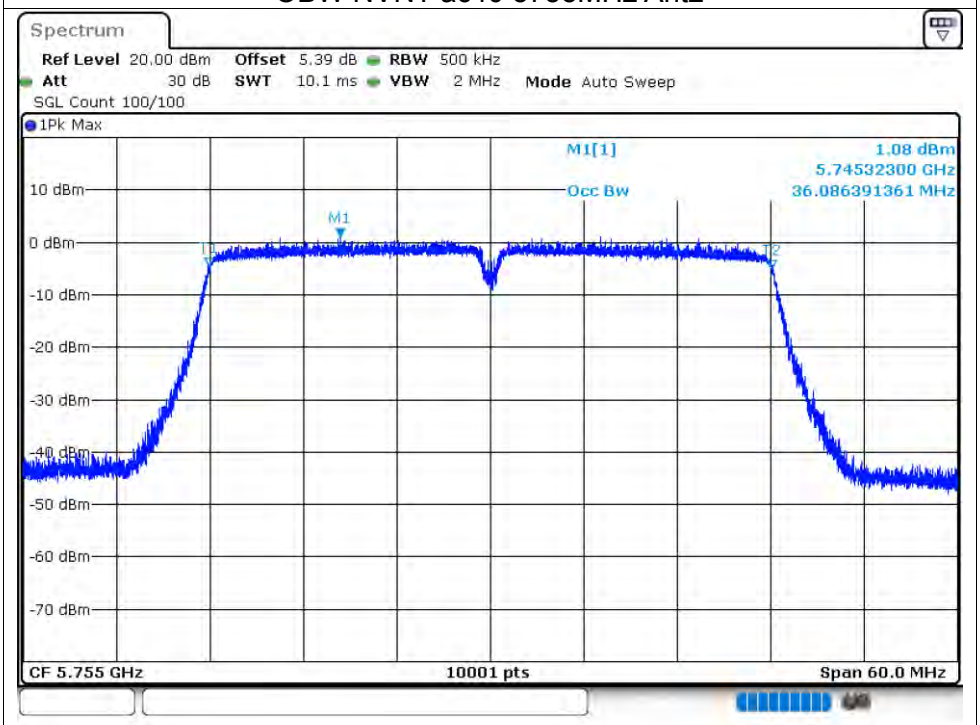
OBW NVNT ac40 5755MHz Ant1



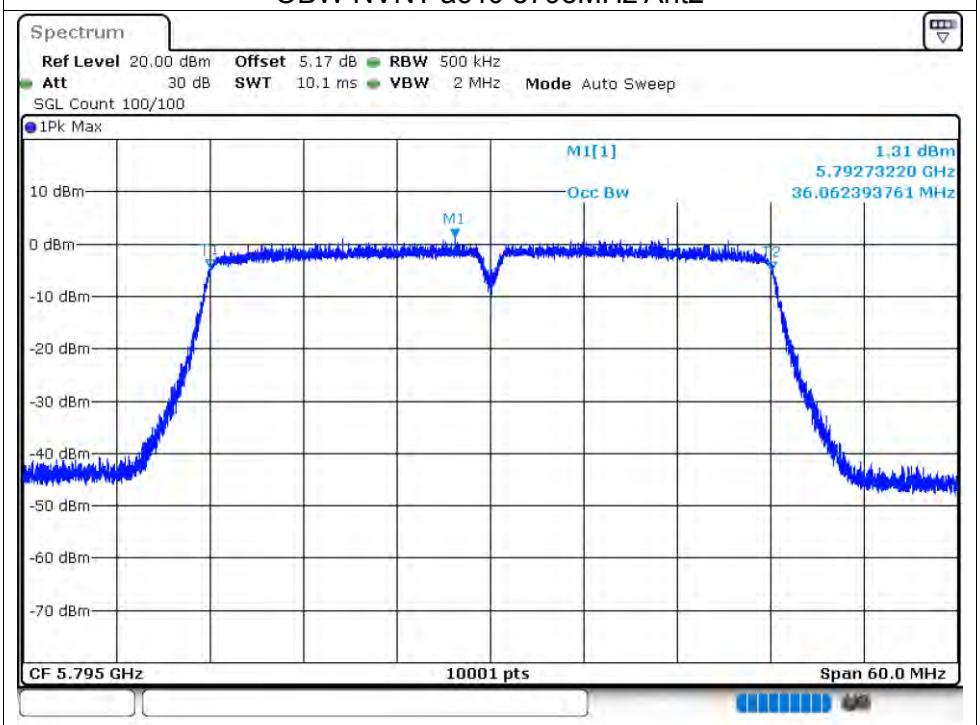
OBW NVNT ac40 5795MHz Ant1



OBW NVNT ac40 5755MHz Ant2



OBW NVNT ac40 5795MHz Ant2



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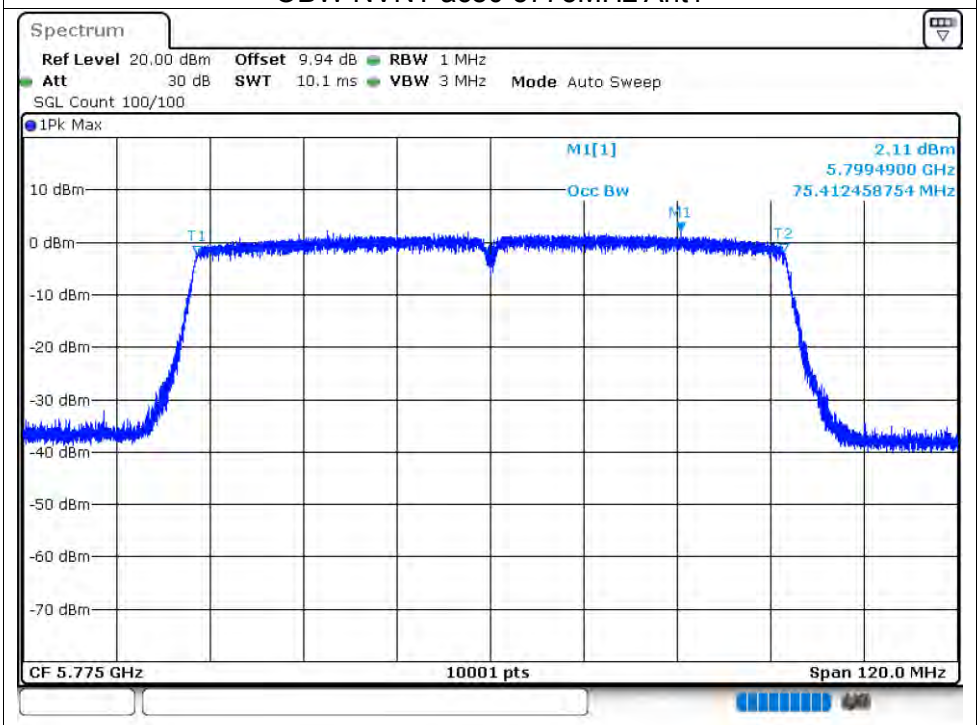
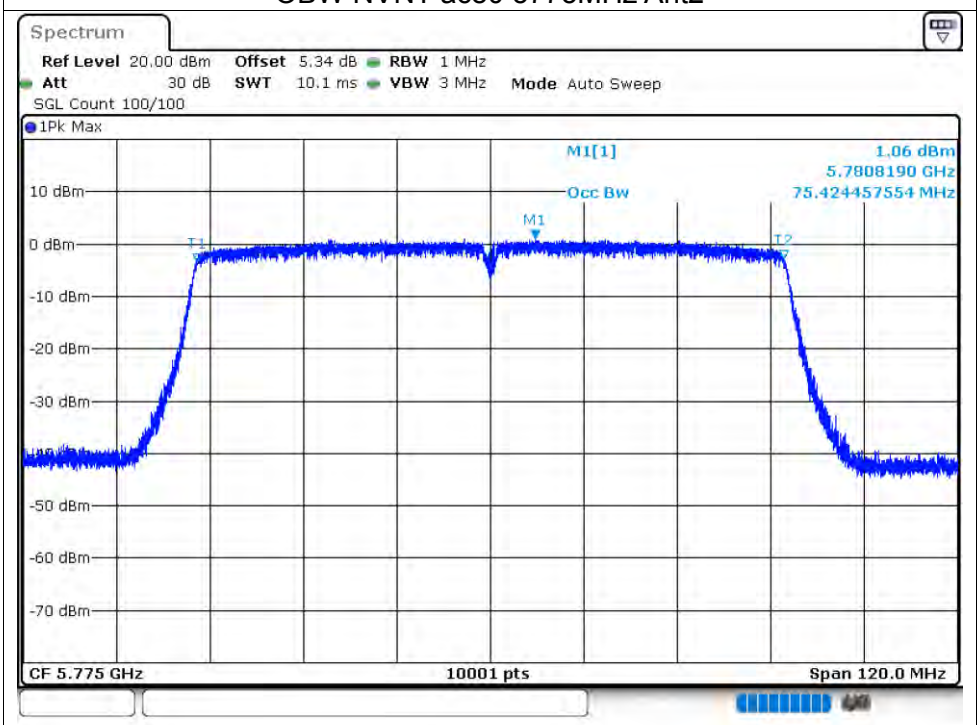
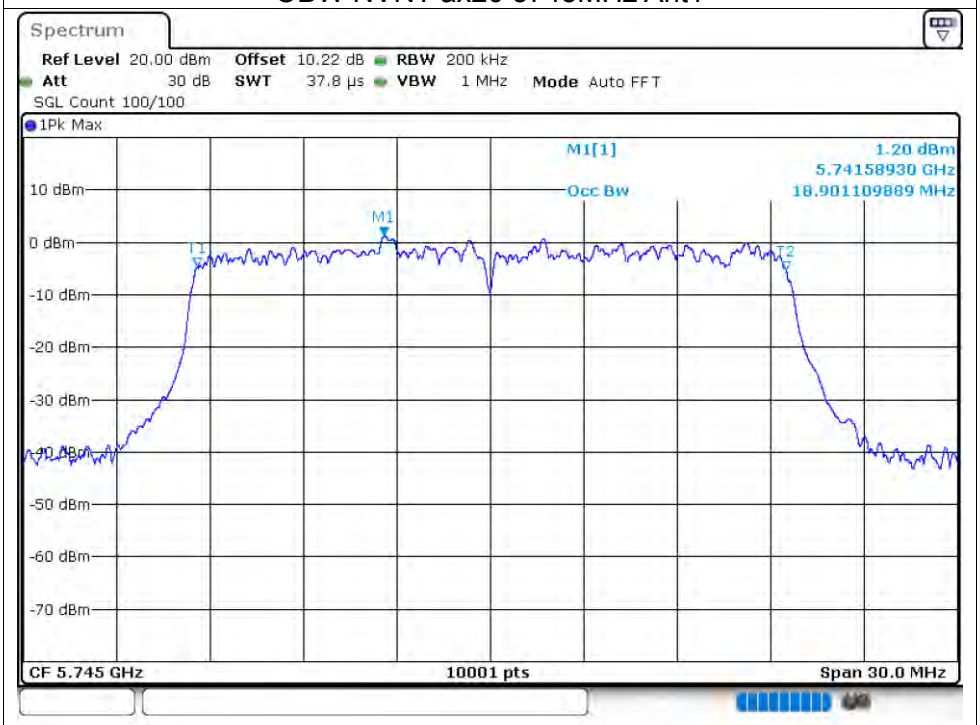


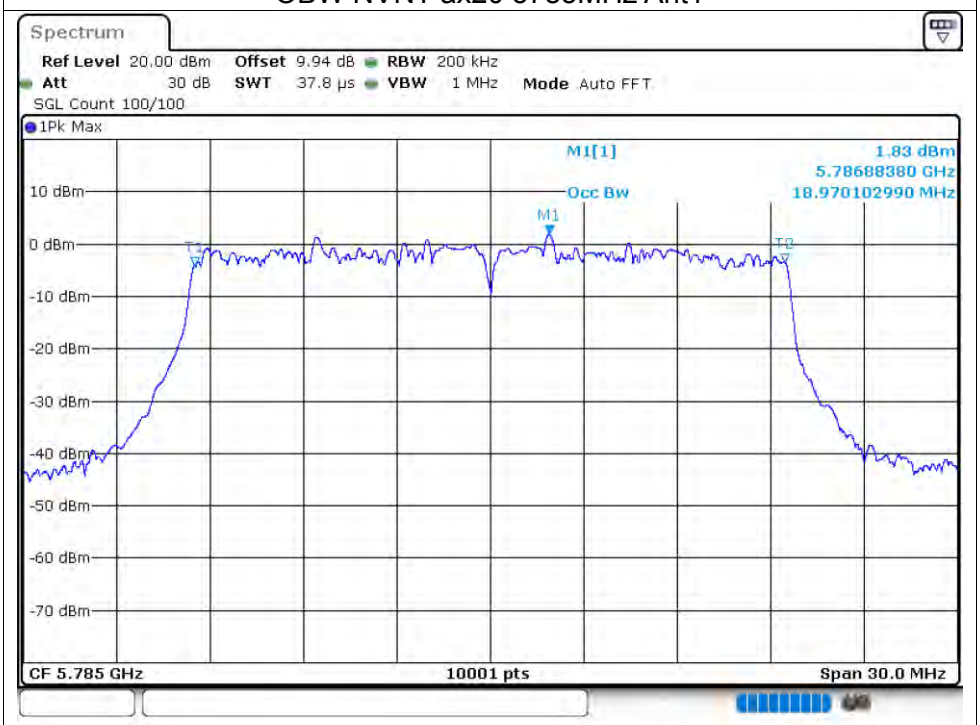
OBW NVNT ac80 5775MHz Ant2



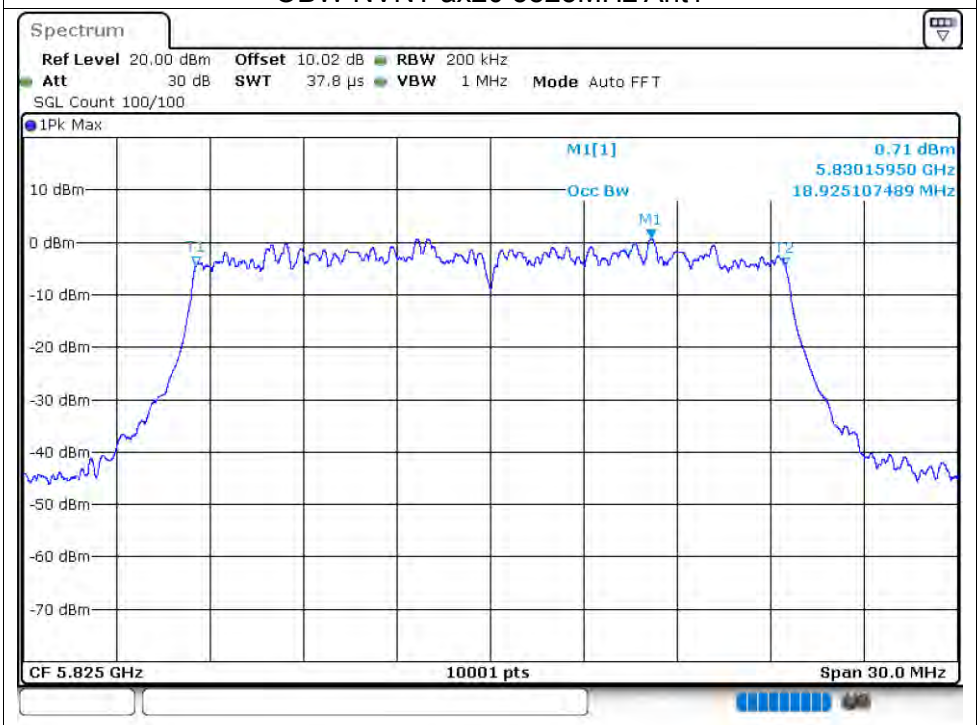
OBW NVNT ax20 5745MHz Ant1



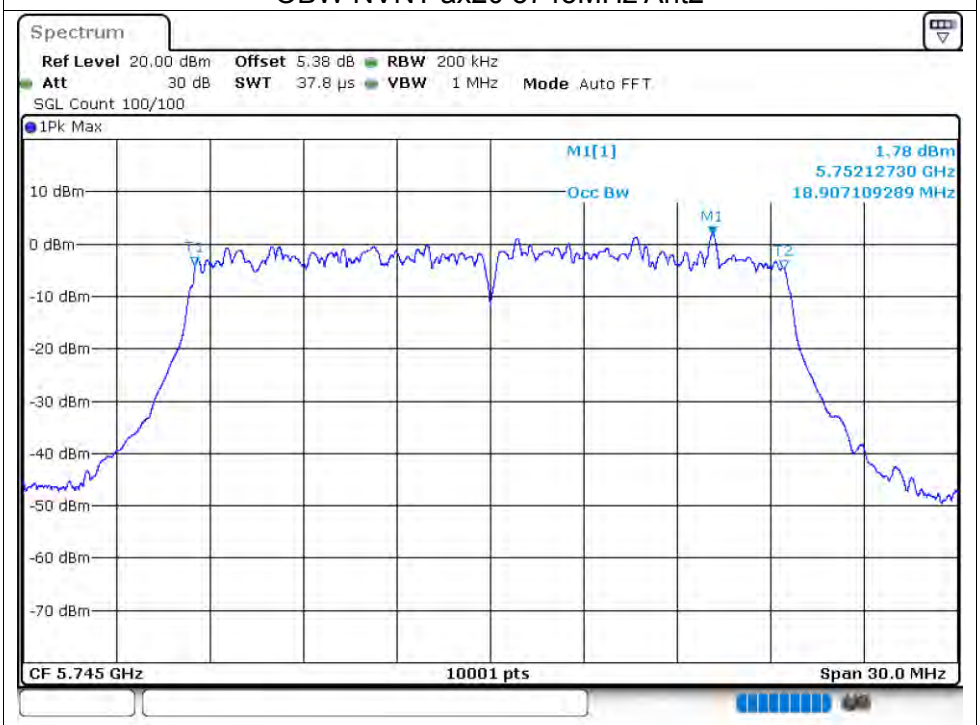
OBW NVNT ax20 5785MHz Ant1



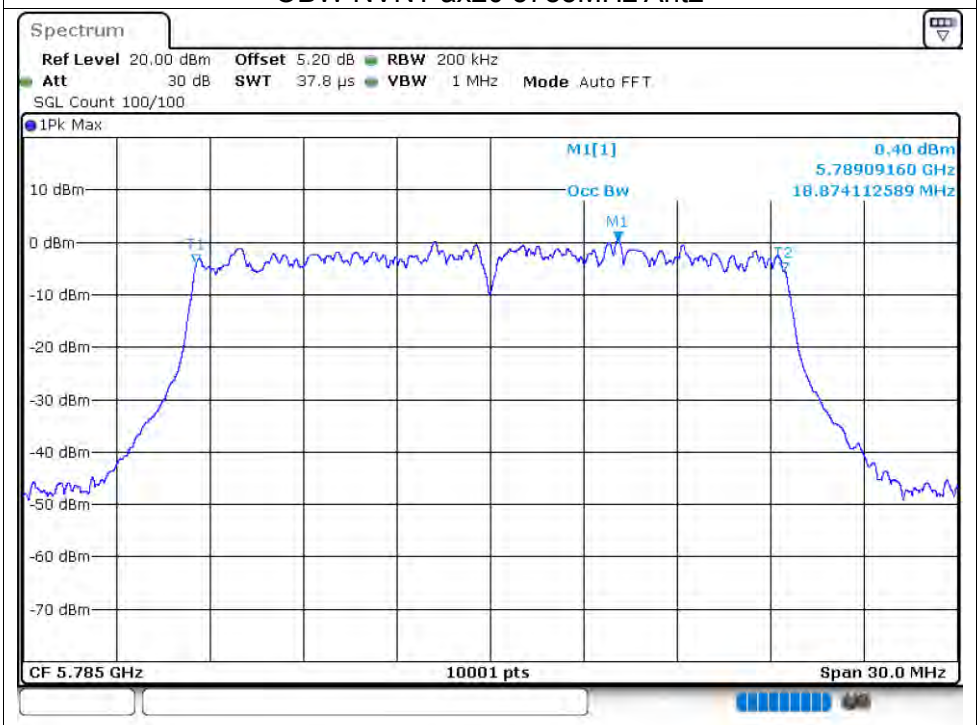
OBW NVNT ax20 5825MHz Ant1



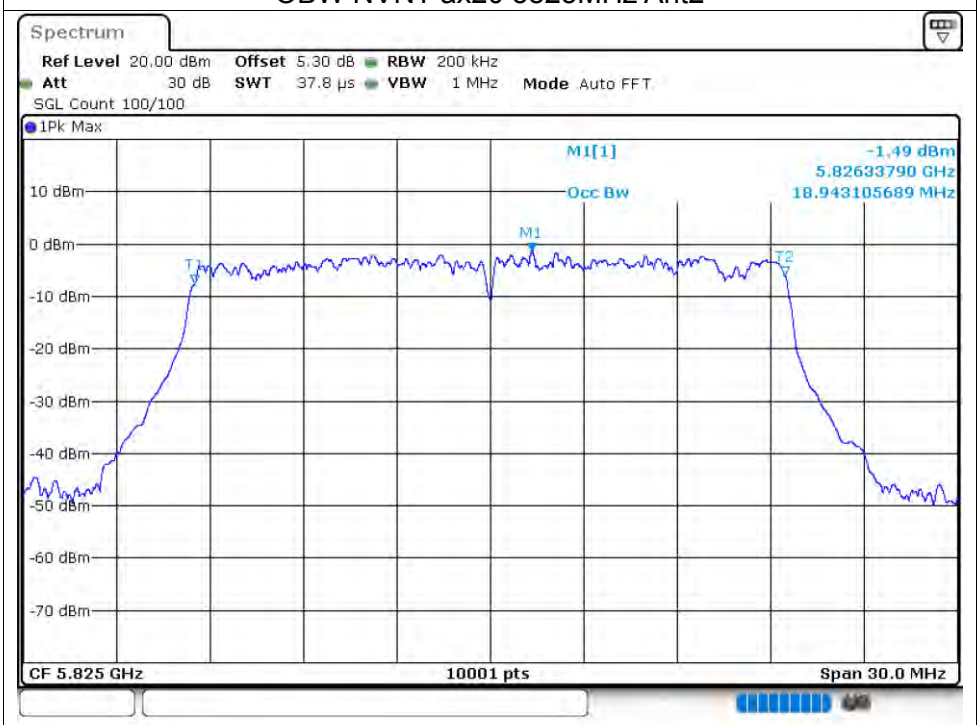
OBW NVNT ax20 5745MHz Ant2



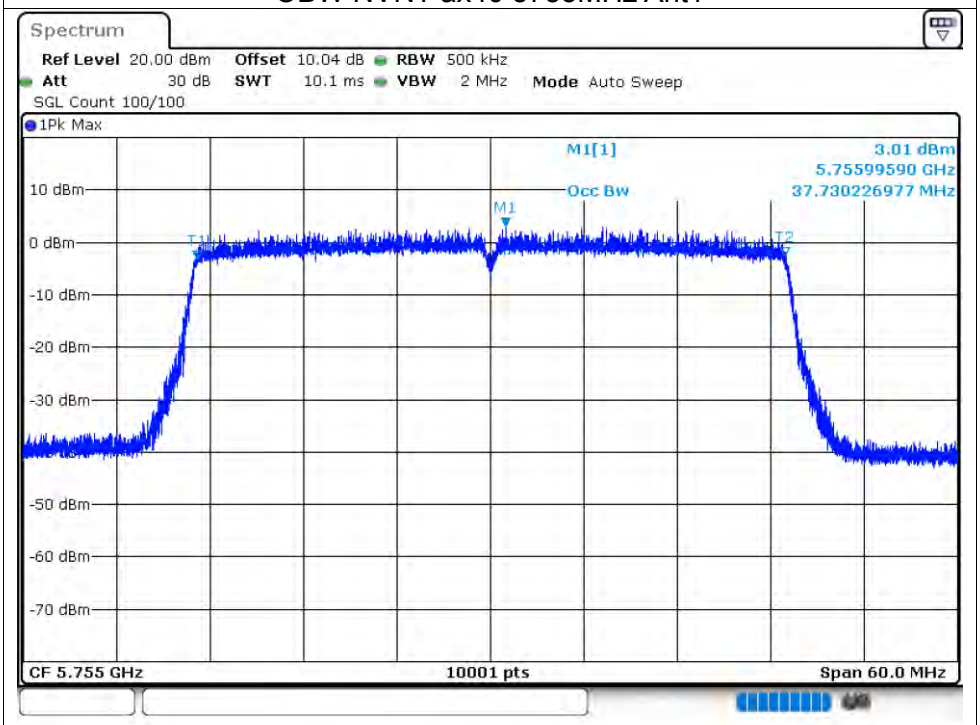
OBW NVNT ax20 5785MHz Ant2



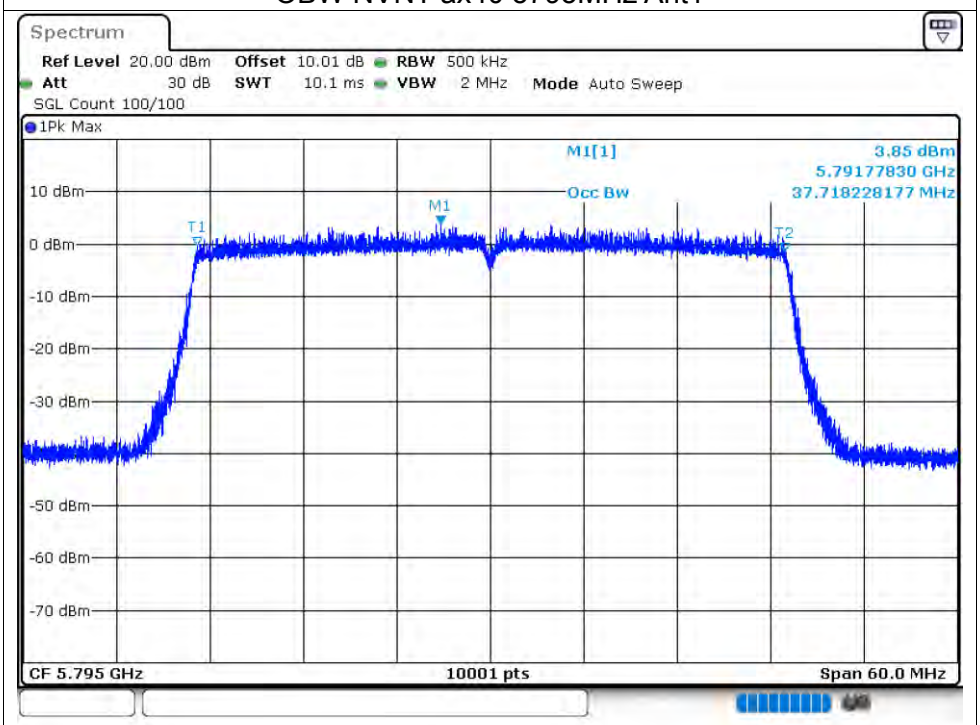
OBW NVNT ax20 5825MHz Ant2



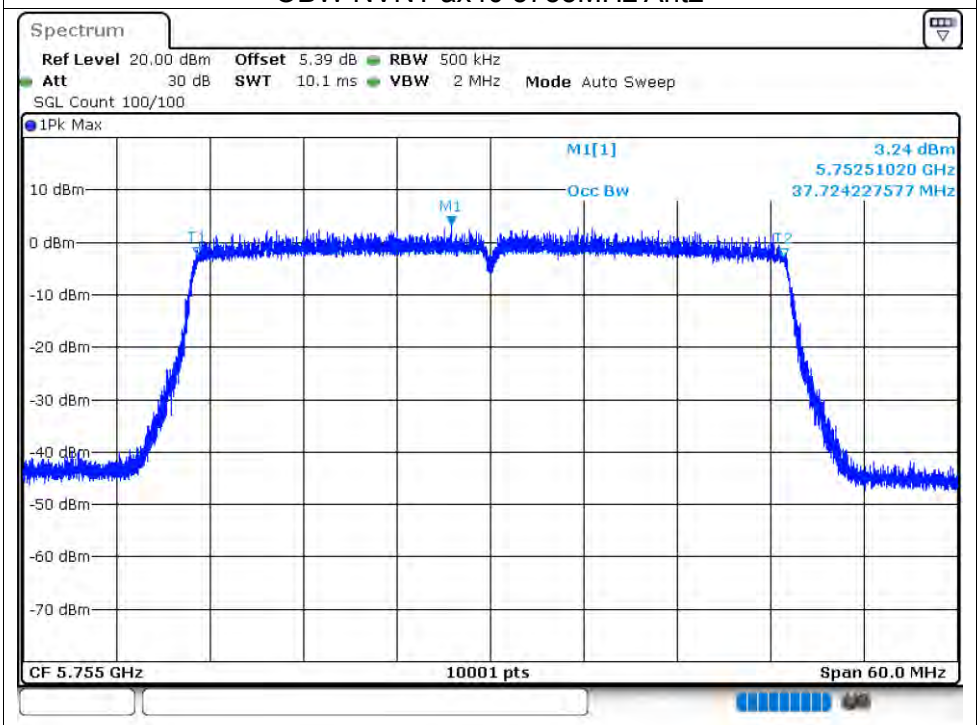
OBW NVNT ax40 5755MHz Ant1



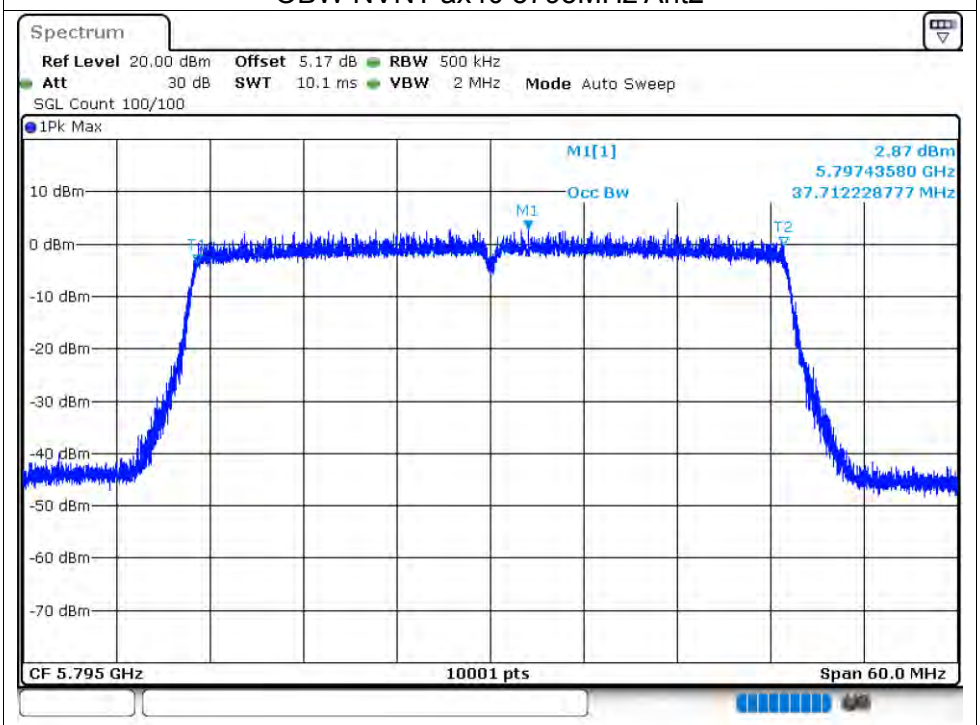
OBW NVNT ax40 5795MHz Ant1



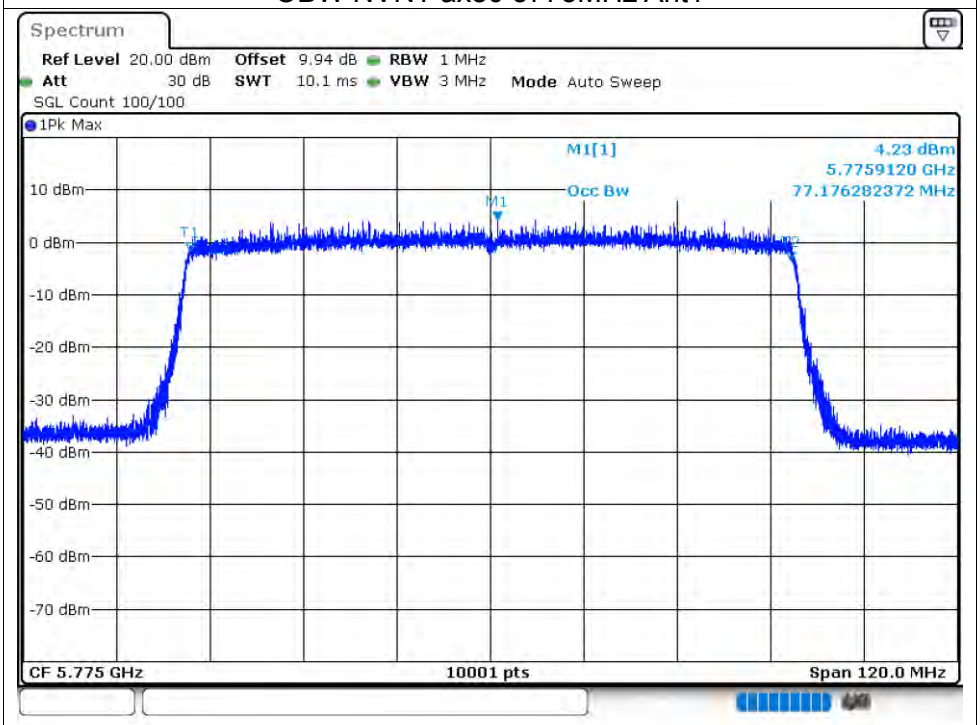
OBW NVNT ax40 5755MHz Ant2



OBW NVNT ax40 5795MHz Ant2



OBW NVNT ax80 5775MHz Ant1



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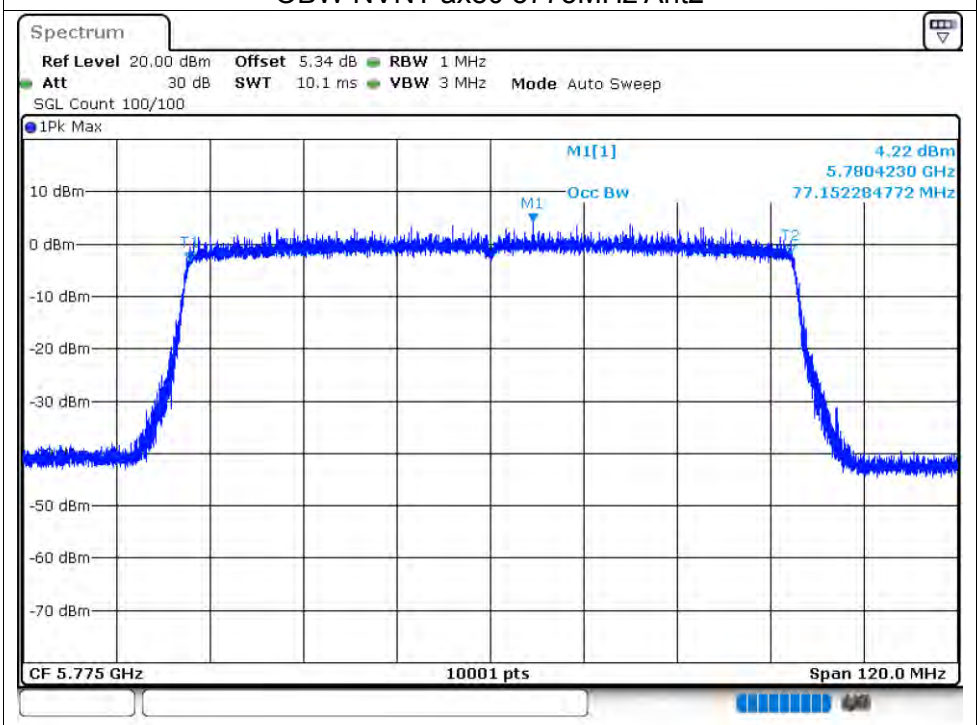

7.4.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-3.16	-	30	Pass
NVNT	a	5785	Ant1	-3.19	-	30	Pass
NVNT	a	5825	Ant1	-3.53	-	30	Pass
NVNT	a	5745	Ant2	-3.57	-	30	Pass
NVNT	a	5785	Ant2	-3.32	-	30	Pass
NVNT	a	5825	Ant2	-3.09	-	30	Pass
NVNT	n20	5745	Ant1	-3.43	-0.71	30	Pass
NVNT	n20	5745	Ant2	-4.01			
NVNT	n20	5785	Ant1	-3.55	-0.71	30	Pass
NVNT	n20	5785	Ant2	-3.88			
NVNT	n20	5825	Ant1	-3.97	-0.71	30	Pass
NVNT	n20	5825	Ant2	-3.51			
NVNT	n40	5755	Ant1	-6.35	-3.67	30	Pass
NVNT	n40	5755	Ant2	-6.97			
NVNT	n40	5795	Ant1	-6.32	-3.47	30	Pass
NVNT	n40	5795	Ant2	-6.59			
NVNT	ac20	5745	Ant1	-3.51	-0.71	30	Pass
NVNT	ac20	5745	Ant2	-3.93			
NVNT	ac20	5785	Ant1	-3.48	-0.60	30	Pass
NVNT	ac20	5785	Ant2	-3.78			
NVNT	ac20	5825	Ant1	-3.41	-0.27	30	Pass
NVNT	ac20	5825	Ant2	-3.15			
NVNT	ac40	5755	Ant1	-6.35	-3.67	30	Pass
NVNT	ac40	5755	Ant2	-6.89			
NVNT	ac40	5795	Ant1	-6.2	-3.47	30	Pass
NVNT	ac40	5795	Ant2	-6.78			
NVNT	ac80	5775	Ant1	-8.87	-6.20	30	Pass
NVNT	ac80	5775	Ant2	-9.71			
NVNT	ax20	5745	Ant1	-3.69	-0.92	30	Pass
NVNT	ax20	5745	Ant2	-4.23			
NVNT	ax20	5785	Ant1	-3.74	-0.86	30	Pass
NVNT	ax20	5785	Ant2	-3.94			
NVNT	ax20	5825	Ant1	-3.54	-0.71	30	Pass
NVNT	ax20	5825	Ant2	-3.92			
NVNT	ax40	5755	Ant1	-6.79	-3.98	30	Pass
NVNT	ax40	5755	Ant2	-7.16			
NVNT	ax40	5795	Ant1	-6.69	-3.87	30	Pass
NVNT	ax40	5795	Ant2	-6.99			
NVNT	ax80	5775	Ant1	-13.97	-10.97	30	Pass
NVNT	ax80	5775	Ant2	-13.95			