Appendix: 5G Wi-Fi Band4

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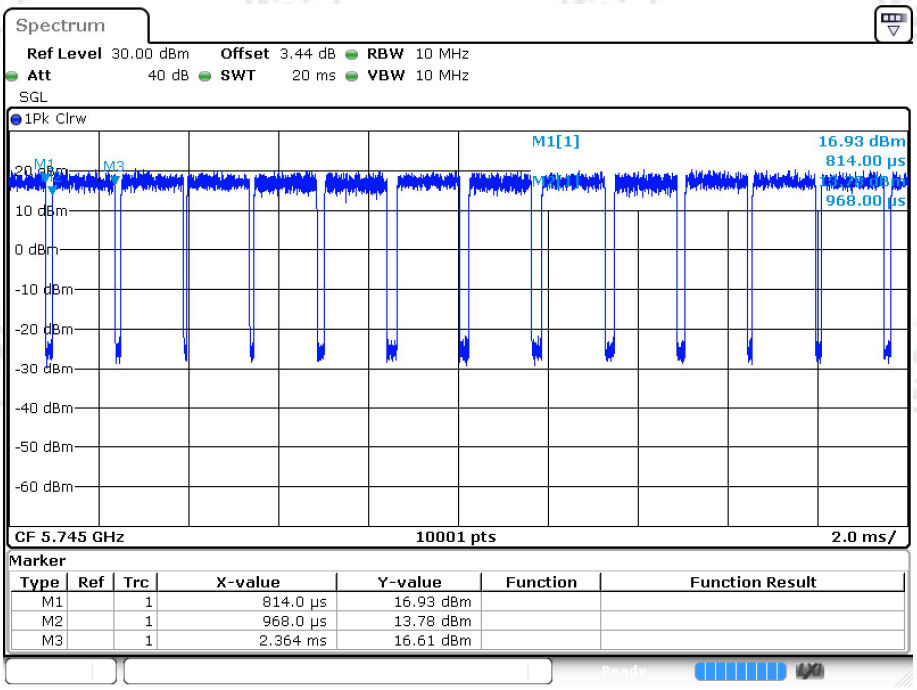
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	90.06	0.45	0.72
NVNT	a	5785	Ant1	90.19	0.45	0.72
NVNT	a	5825	Ant1	90.89	0.41	0.72
NVNT	n20	5745	Ant1	97.53	0.11	0.2
NVNT	n20	5785	Ant1	97.86	0.09	0.2
NVNT	n20	5825	Ant1	95.55	0.2	0.2
NVNT	n40	5755	Ant1	95.25	0.21	0.41
NVNT	n40	5795	Ant1	97.16	0.13	0.41
NVNT	ac20	5745	Ant1	96.92	0.14	0.2
NVNT	ac20	5785	Ant1	97.74	0.1	0.2
NVNT	ac20	5825	Ant1	97.33	0.12	0.2
NVNT	ac40	5755	Ant1	97.42	0.11	0.2
NVNT	ac40	5795	Ant1	98.2	0	0.2
NVNT	ax20	5745	Ant1	93.9	0.27	0.26
NVNT	ax20	5785	Ant1	97.1	0.13	0.26
NVNT	ax20	5825	Ant1	95.94	0.18	0.26
NVNT	ax40	5755	Ant1	98.23	0	0.26
NVNT	ax40	5795	Ant1	95.56	0.2	0.26

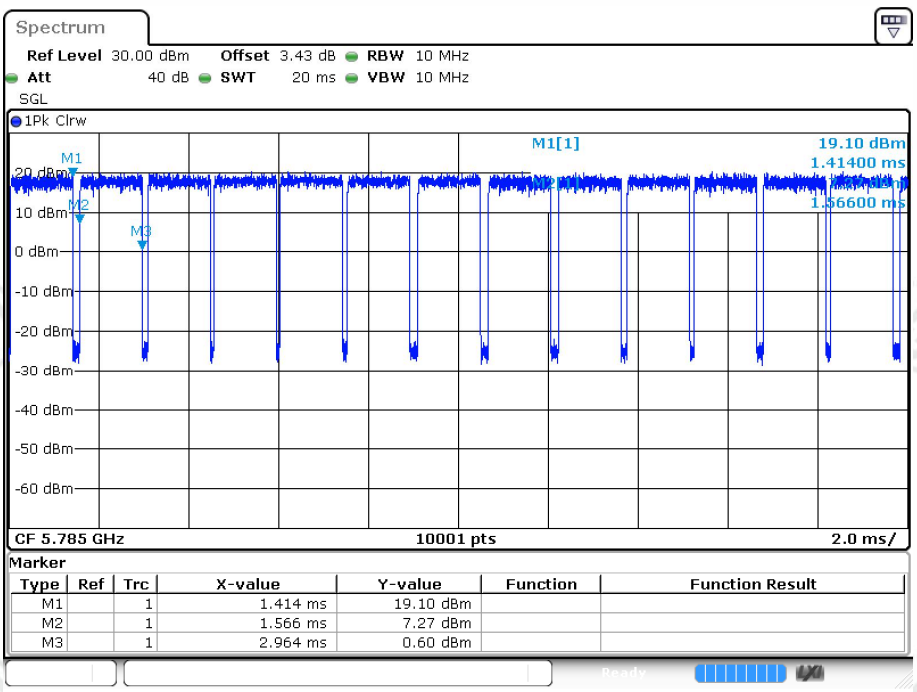
Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



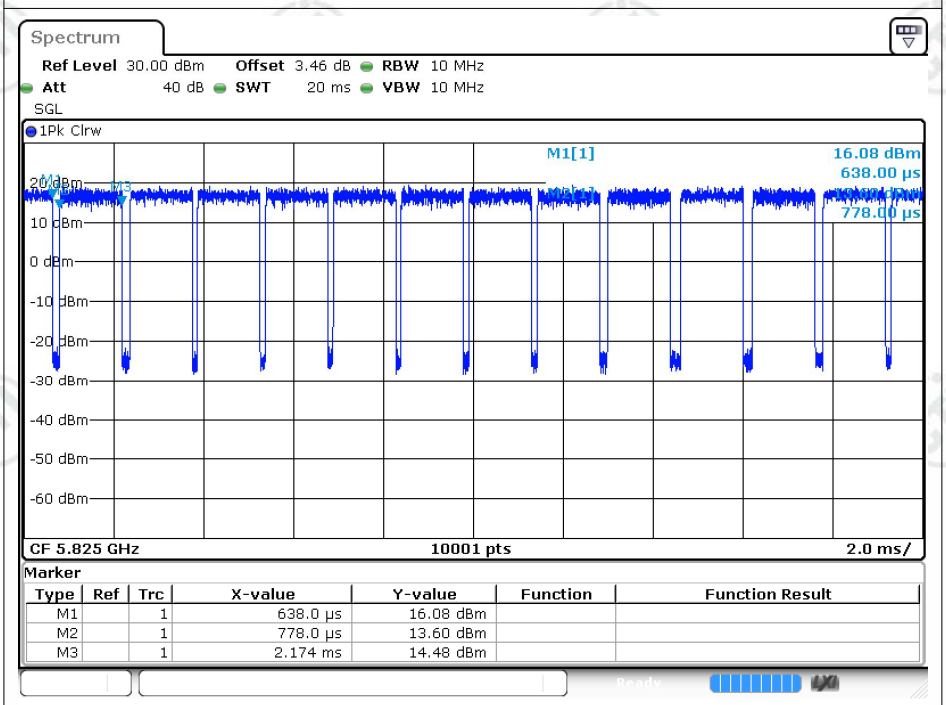
Date: 25.MAR.2025 13:38:43

Duty Cycle NVNT a 5785MHz Ant1



Date: 25.MAR.2025 13:41:40

Duty Cycle NVNT a 5825MHz Ant1

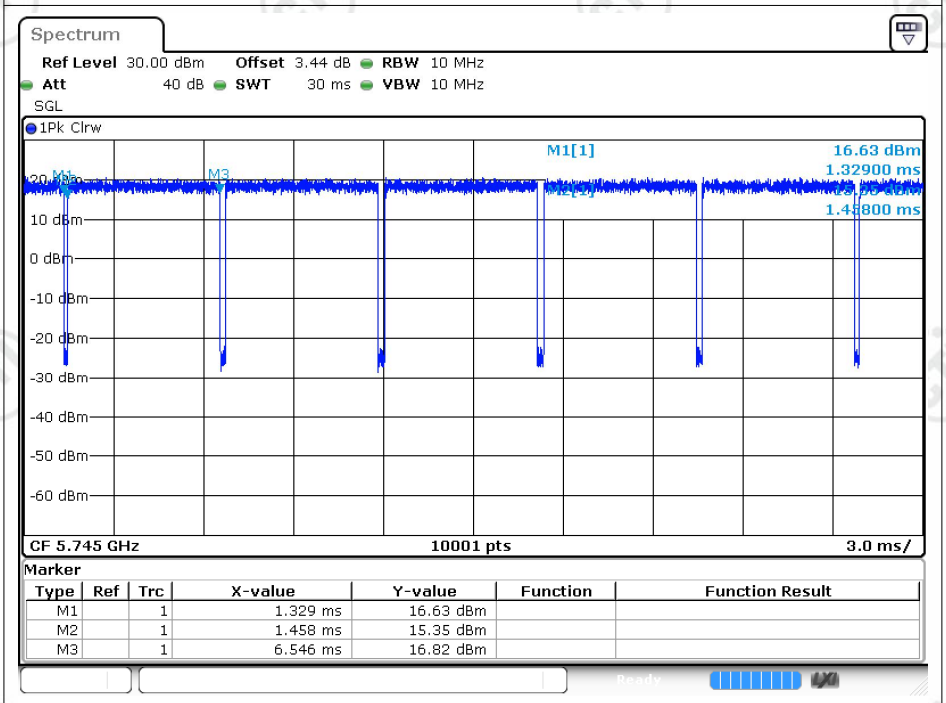


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	638.0 µs	16.08 dBm		
M2		1	778.0 µs	13.60 dBm		
M3		1	2.174 ms	14.48 dBm		

Date: 25.MAR.2025 13:43:47

Duty Cycle NVNT n20 5745MHz Ant1

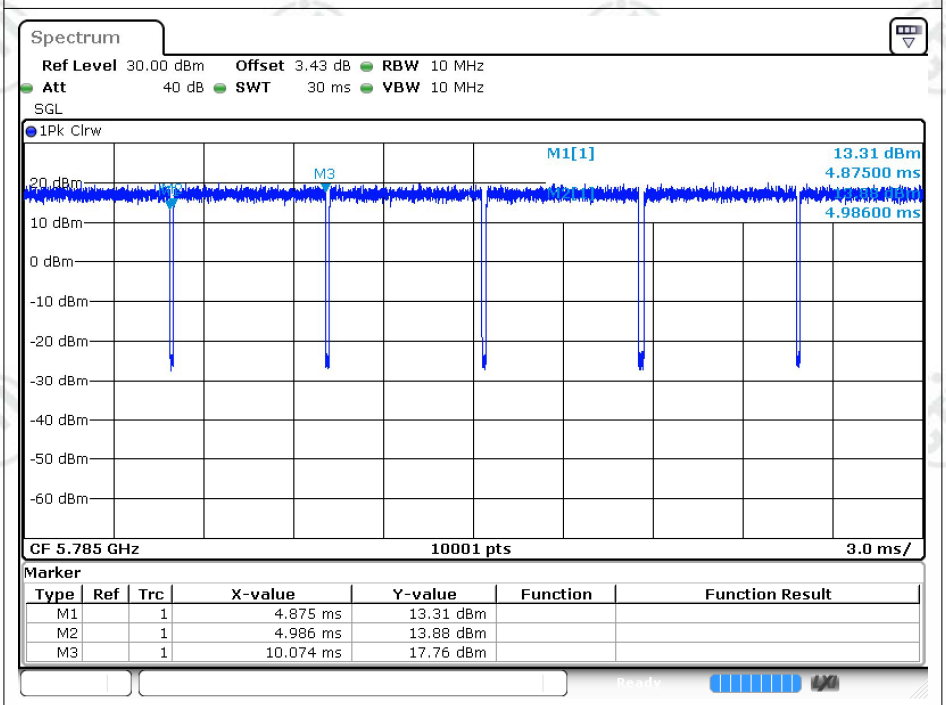


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.329 ms	16.63 dBm		
M2		1	1.458 ms	15.35 dBm		
M3		1	6.546 ms	16.82 dBm		

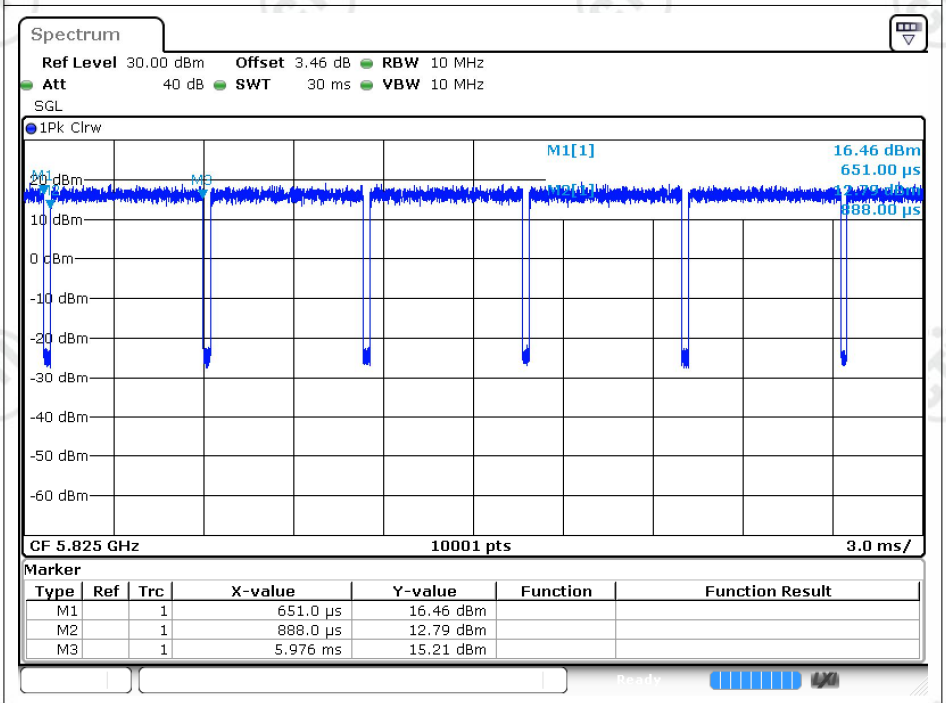
Date: 25.MAR.2025 13:46:18

Duty Cycle NVNT n20 5785MHz Ant1



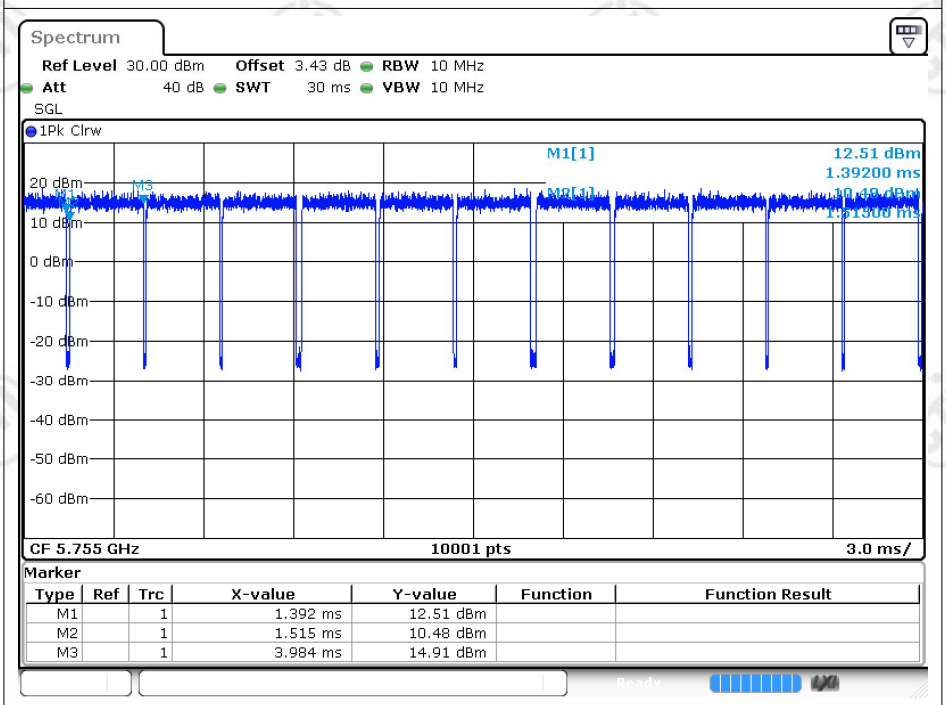
Date: 25.MAR.2025 13:48:48

Duty Cycle NVNT n20 5825MHz Ant1



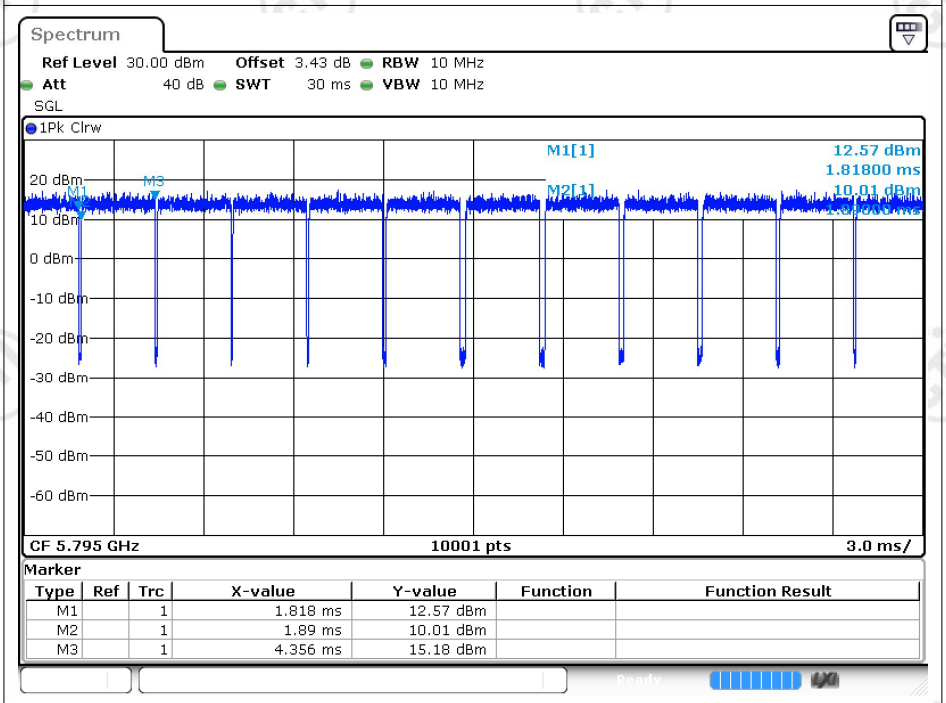
Date: 25.MAR.2025 13:50:03

Duty Cycle NVNT n40 5755MHz Ant1



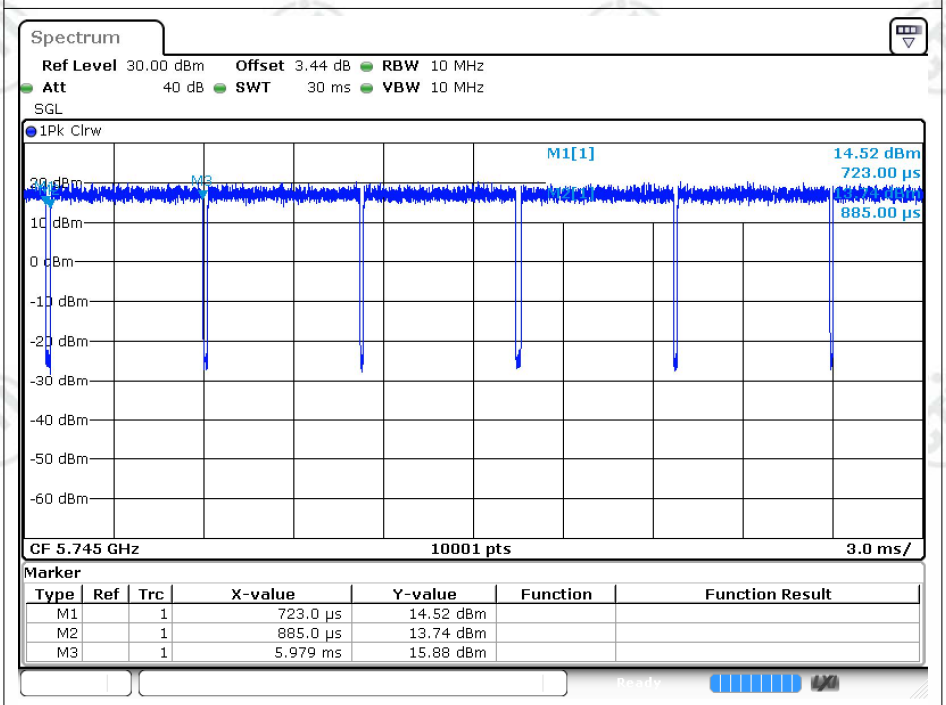
Date: 25.MAR.2025 13:52:27

Duty Cycle NVNT n40 5795MHz Ant1



Date: 25.MAR.2025 13:55:28

Duty Cycle NVNT ac20 5745MHz Ant1

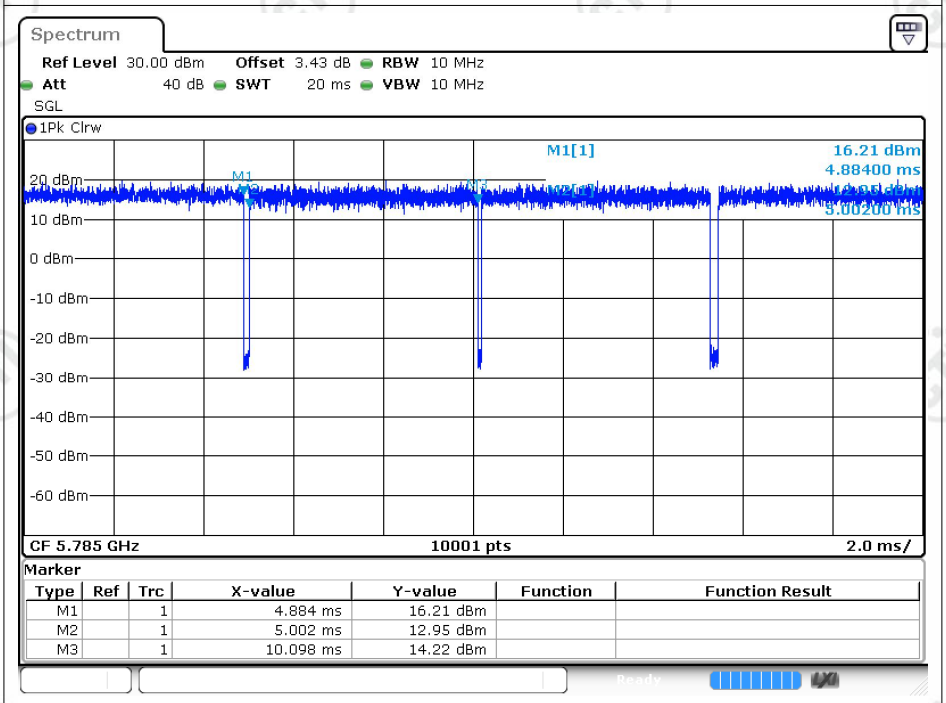


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	723.0 µs	14.52 dBm		
M2		1	885.0 µs	13.74 dBm		
M3		1	5.979 ms	15.88 dBm		

Date: 25.MAR.2025 13:57:57

Duty Cycle NVNT ac20 5785MHz Ant1

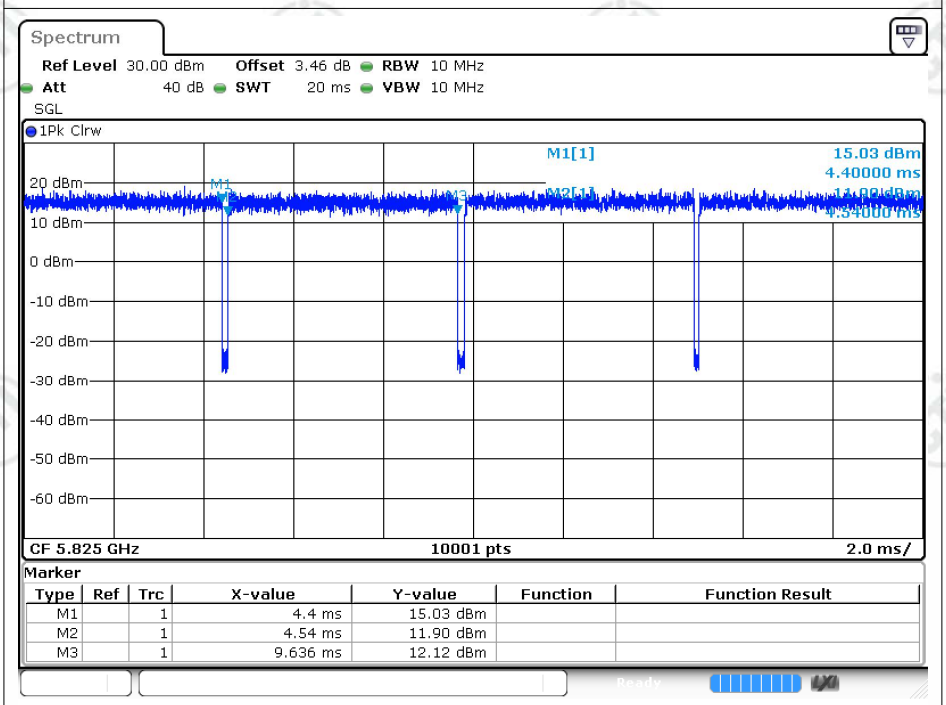


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	4.884 ms	16.21 dBm		
M2		1	5.002 ms	12.95 dBm		
M3		1	10.098 ms	14.22 dBm		

Date: 25.MAR.2025 14:00:58

Duty Cycle NVNT ac20 5825MHz Ant1

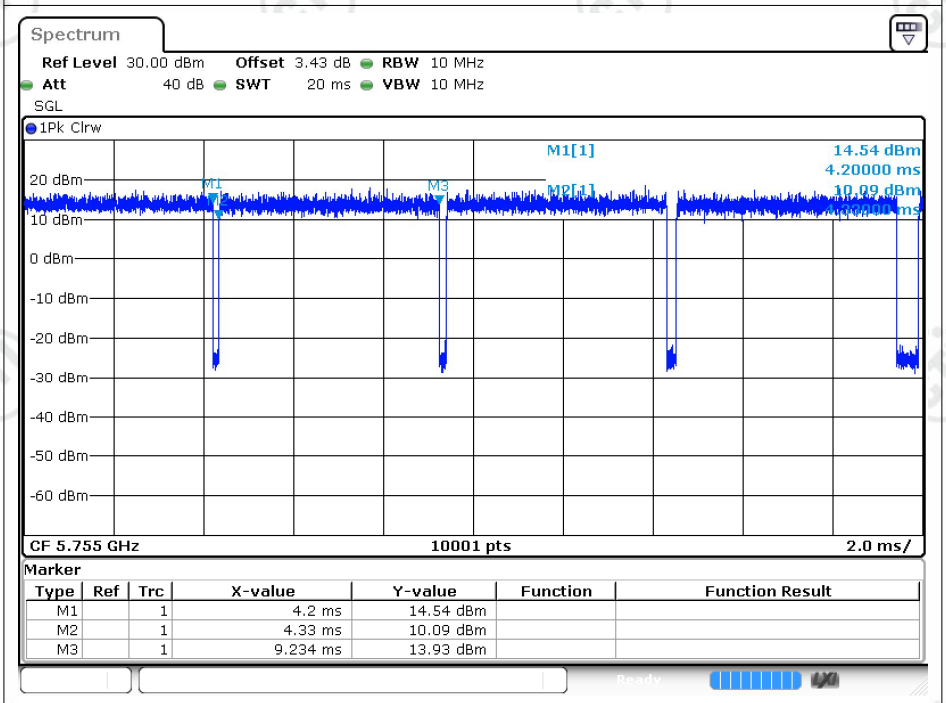


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	4.4 ms	15.03 dBm		
M2		1	4.54 ms	11.90 dBm		
M3		1	9.636 ms	12.12 dBm		

Date: 25.MAR.2025 14:02:11

Duty Cycle NVNT ac40 5755MHz Ant1

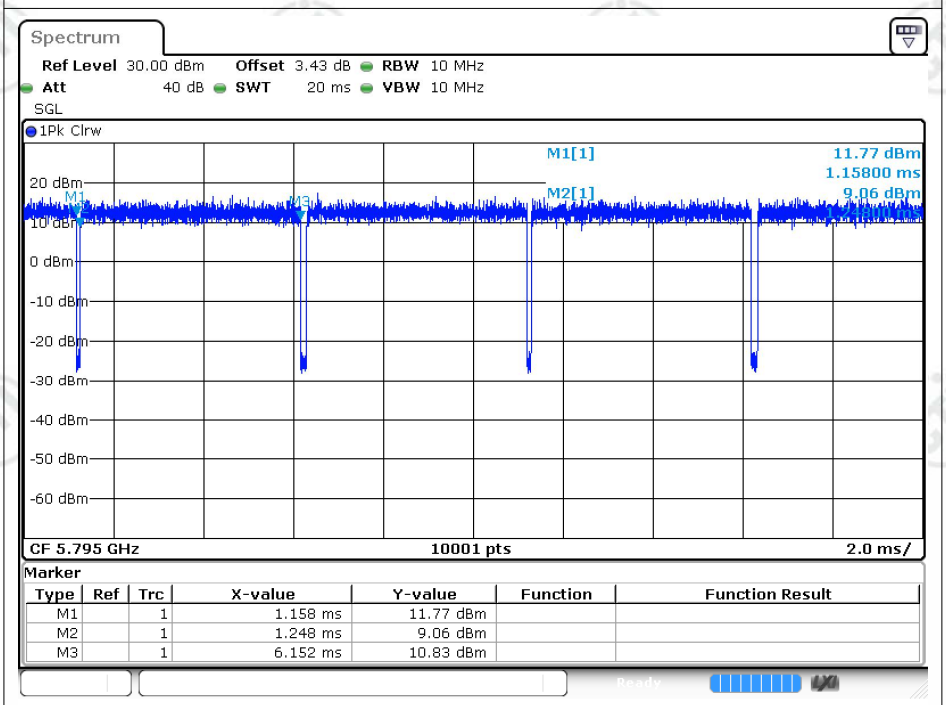


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	4.2 ms	14.54 dBm		
M2		1	4.33 ms	10.09 dBm		
M3		1	9.234 ms	13.93 dBm		

Date: 25.MAR.2025 14:06:04

Duty Cycle NVNT ac40 5795MHz Ant1

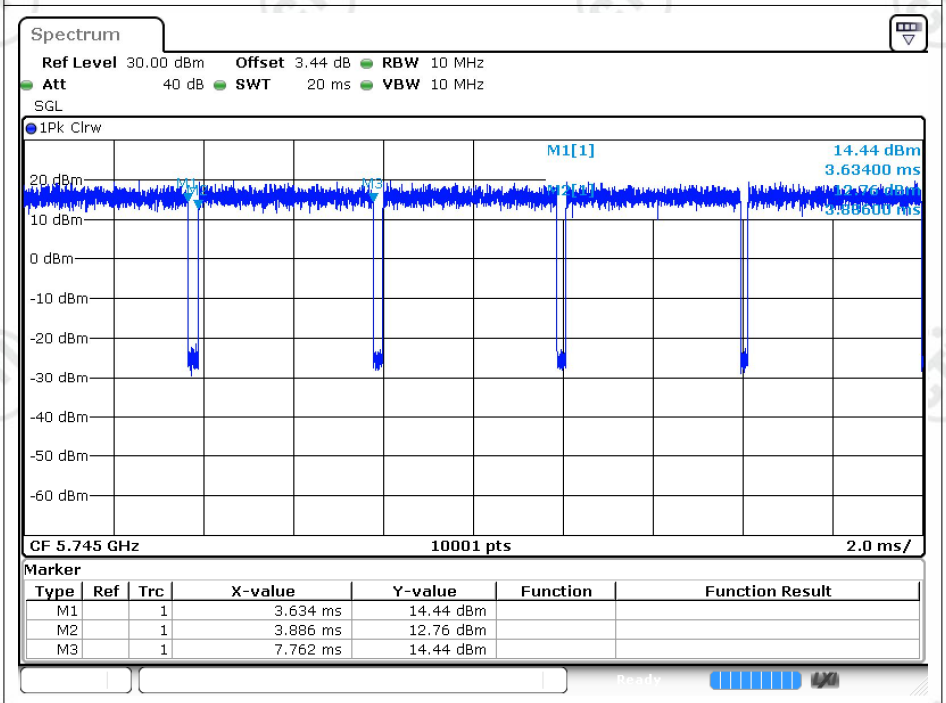


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.158 ms	11.77 dBm		
M2		1	1.248 ms	9.06 dBm		
M3		1	6.152 ms	10.83 dBm		

Date: 25.MAR.2025 14:14:33

Duty Cycle NVNT ax20 5745MHz Ant1

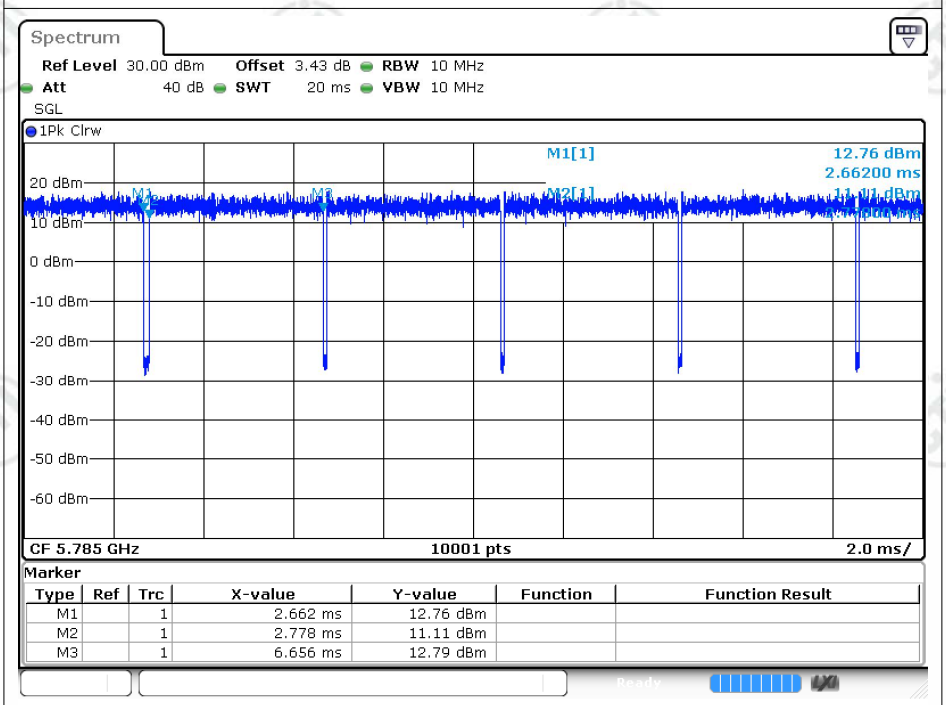


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	3.634 ms	14.44 dBm		
M2		1	3.886 ms	12.76 dBm		
M3		1	7.762 ms	14.44 dBm		

Date: 25.MAR.2025 14:17:16

Duty Cycle NVNT ax20 5785MHz Ant1

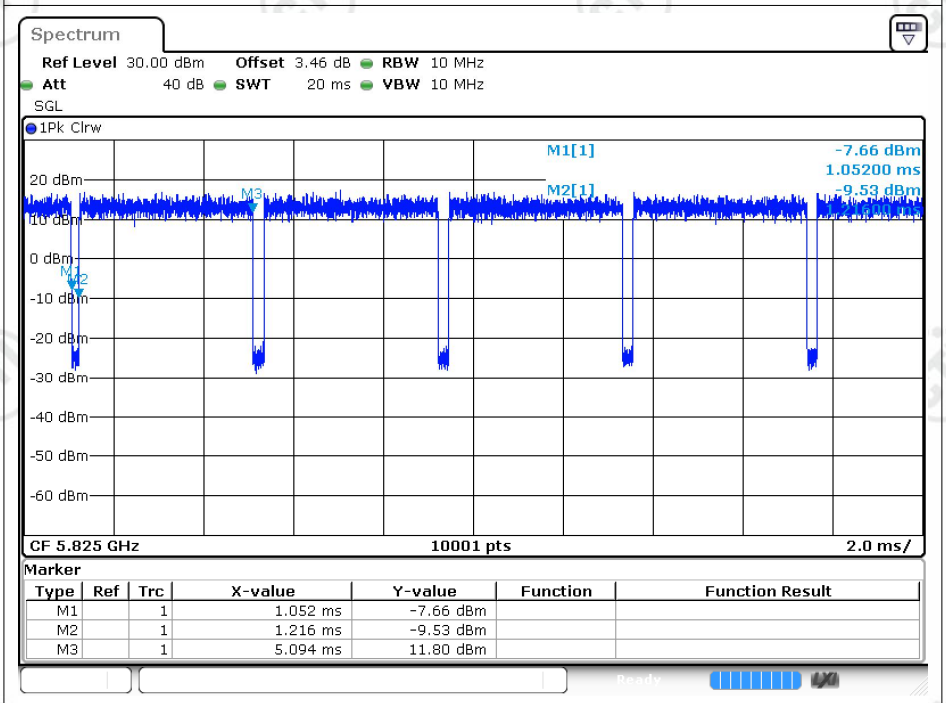


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.662 ms	12.76 dBm		
M2		1	2.778 ms	11.11 dBm		
M3		1	6.656 ms	12.79 dBm		

Date: 25.MAR.2025 14:19:48

Duty Cycle NVNT ax20 5825MHz Ant1

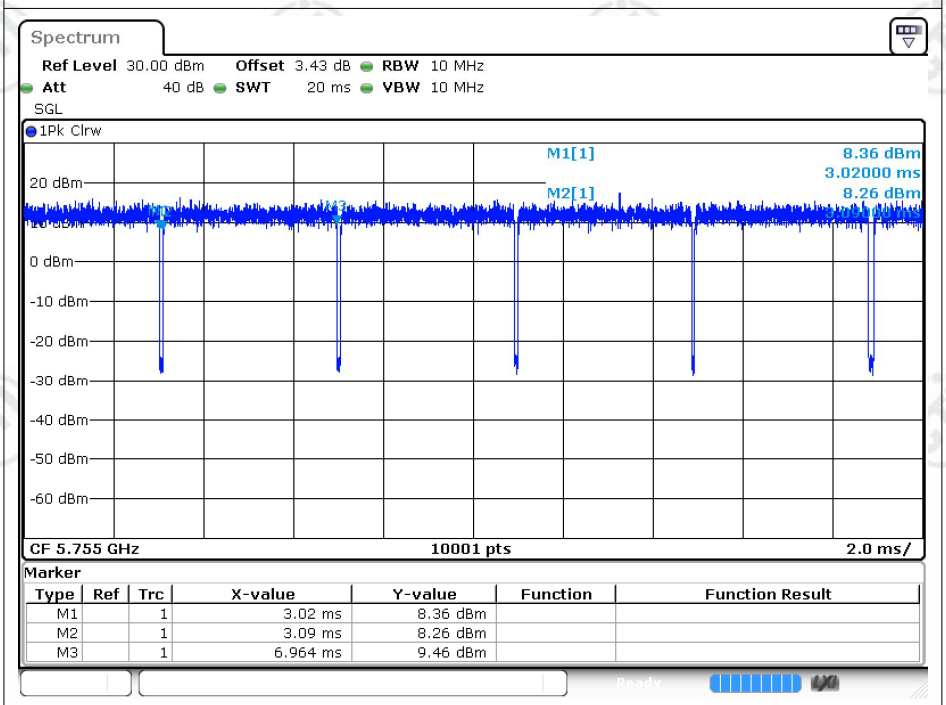


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.052 ms	-7.66 dBm		
M2		1	1.216 ms	-9.53 dBm		
M3		1	5.094 ms	11.80 dBm		

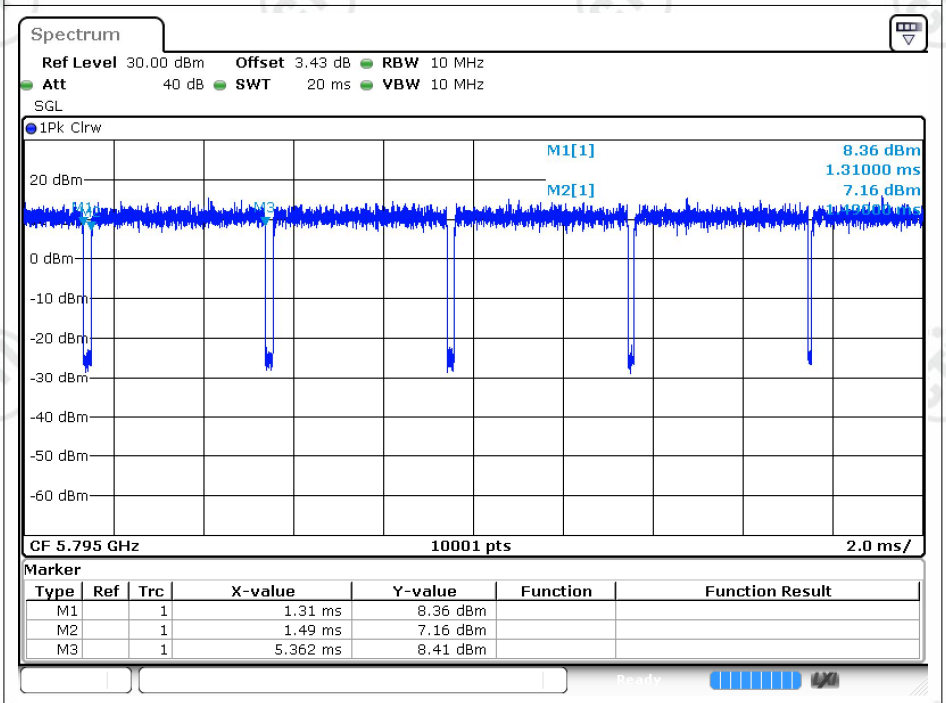
Date: 25.MAR.2025 14:20:56

Duty Cycle NVNT ax40 5755MHz Ant1



Date: 25.MAR.2025 14:22:47

Duty Cycle NVNT ax40 5795MHz Ant1



Date: 25.MAR.2025 14:24:41

Maximum Conducted Output Power

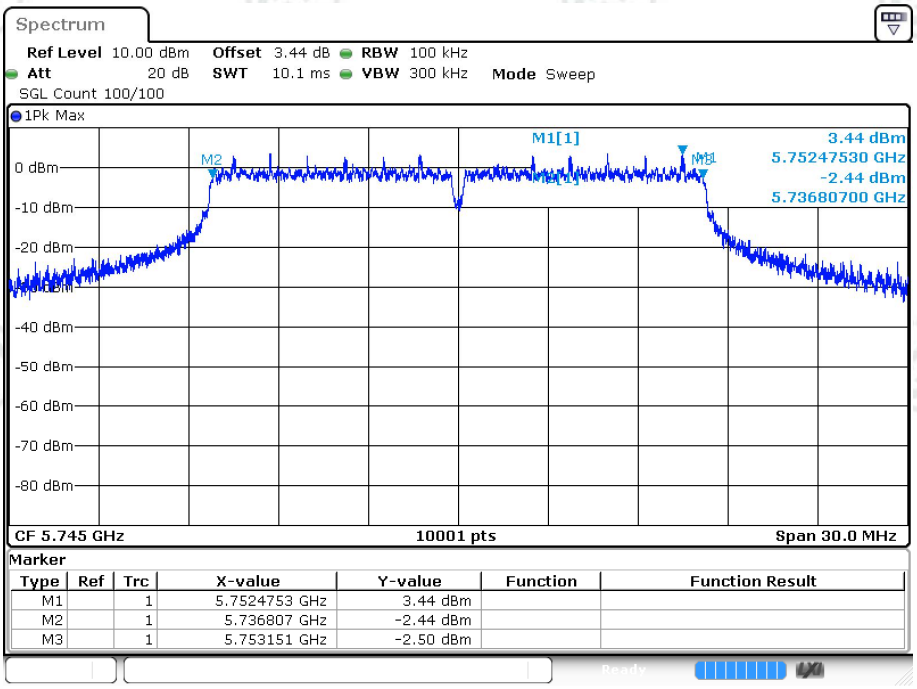
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	14.48	30	Pass
NVNT	a	5785	Ant1	14.42	30	Pass
NVNT	a	5825	Ant1	13.7	30	Pass
NVNT	n20	5745	Ant1	13.82	30	Pass
NVNT	n20	5785	Ant1	13.67	30	Pass
NVNT	n20	5825	Ant1	13.08	30	Pass
NVNT	n40	5755	Ant1	13.83	30	Pass
NVNT	n40	5795	Ant1	13.61	30	Pass
NVNT	ac20	5745	Ant1	12.96	30	Pass
NVNT	ac20	5785	Ant1	12.86	30	Pass
NVNT	ac20	5825	Ant1	12.28	30	Pass
NVNT	ac40	5755	Ant1	12.94	30	Pass
NVNT	ac40	5795	Ant1	12.74	30	Pass
NVNT	ax20	5745	Ant1	11.23	30	Pass
NVNT	ax20	5785	Ant1	11.3	30	Pass
NVNT	ax20	5825	Ant1	11.46	30	Pass
NVNT	ax40	5755	Ant1	11.33	30	Pass
NVNT	ax40	5795	Ant1	11.1	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.344	0.5	Pass
NVNT	a	5785	Ant1	16.341	0.5	Pass
NVNT	a	5825	Ant1	16.341	0.5	Pass
NVNT	n20	5745	Ant1	17.589	0.5	Pass
NVNT	n20	5785	Ant1	17.607	0.5	Pass
NVNT	n20	5825	Ant1	17.601	0.5	Pass
NVNT	n40	5755	Ant1	36.318	0.5	Pass
NVNT	n40	5795	Ant1	36.33	0.5	Pass
NVNT	ac20	5745	Ant1	17.592	0.5	Pass
NVNT	ac20	5785	Ant1	17.583	0.5	Pass
NVNT	ac20	5825	Ant1	17.592	0.5	Pass
NVNT	ac40	5755	Ant1	36.36	0.5	Pass
NVNT	ac40	5795	Ant1	36.348	0.5	Pass
NVNT	ax20	5745	Ant1	19.005	0.5	Pass
NVNT	ax20	5785	Ant1	19.038	0.5	Pass
NVNT	ax20	5825	Ant1	19.071	0.5	Pass
NVNT	ax40	5755	Ant1	37.926	0.5	Pass
NVNT	ax40	5795	Ant1	37.836	0.5	Pass

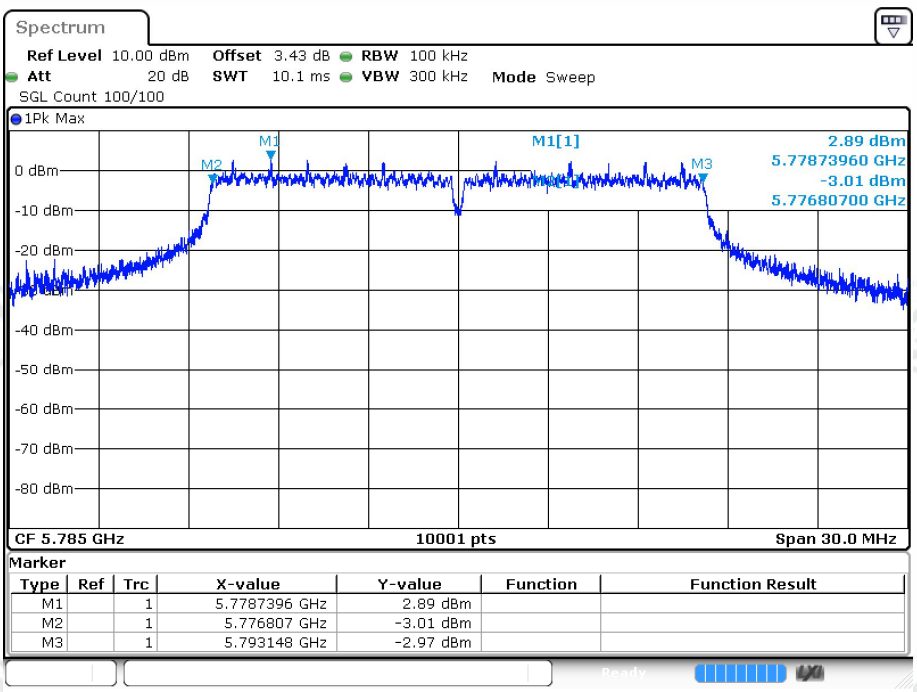
Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



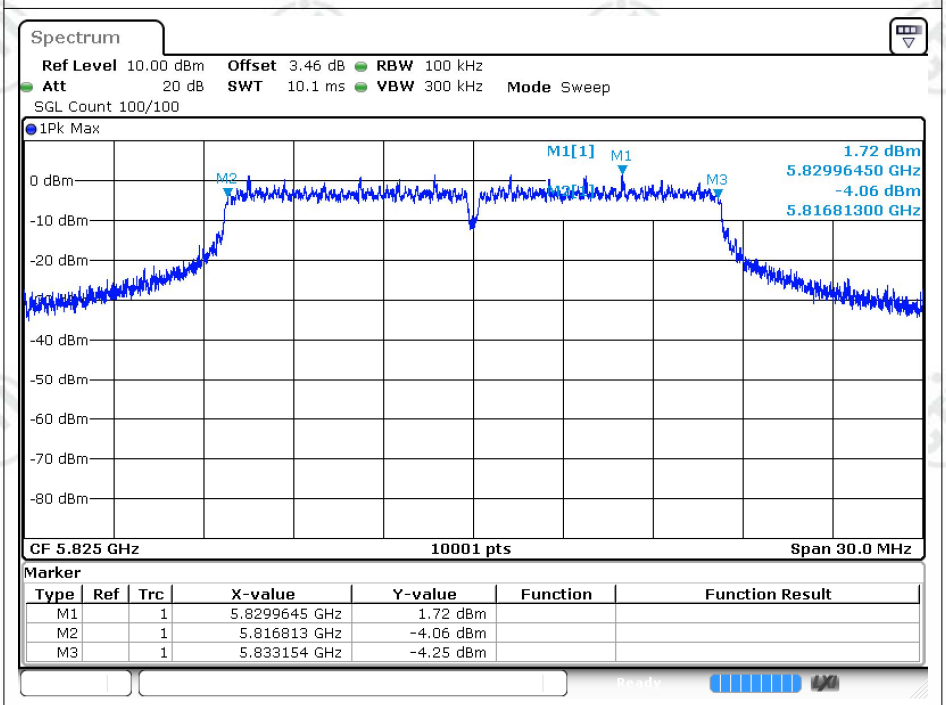
Date: 25.MAR.2025 13:39:46

-6dB Bandwidth NVNT a 5785MHz Ant1



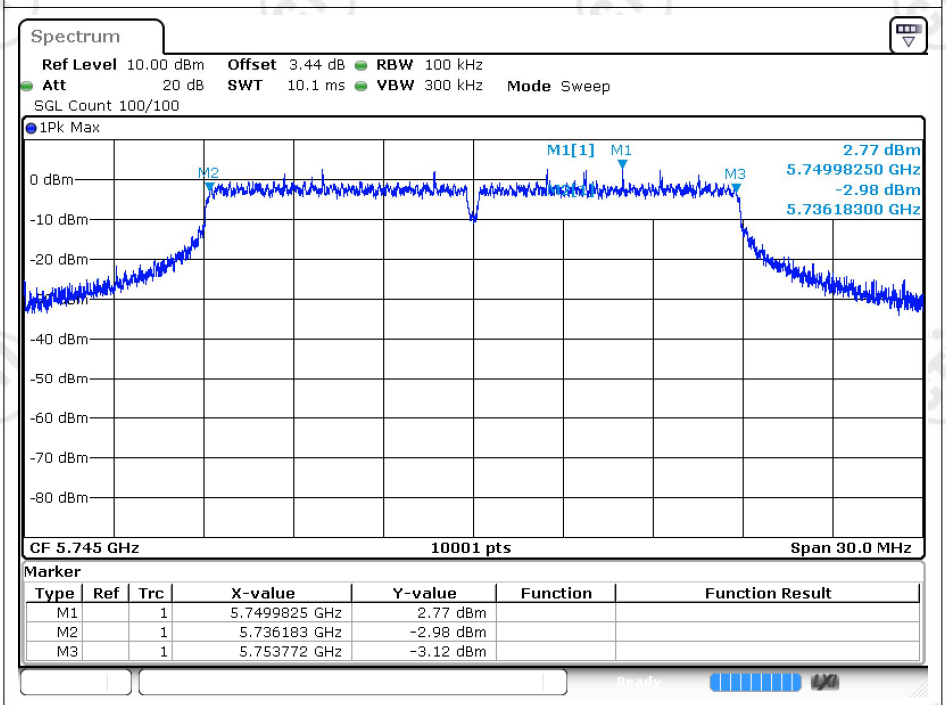
Date: 25.MAR.2025 13:42:08

-6dB Bandwidth NVNT a 5825MHz Ant1



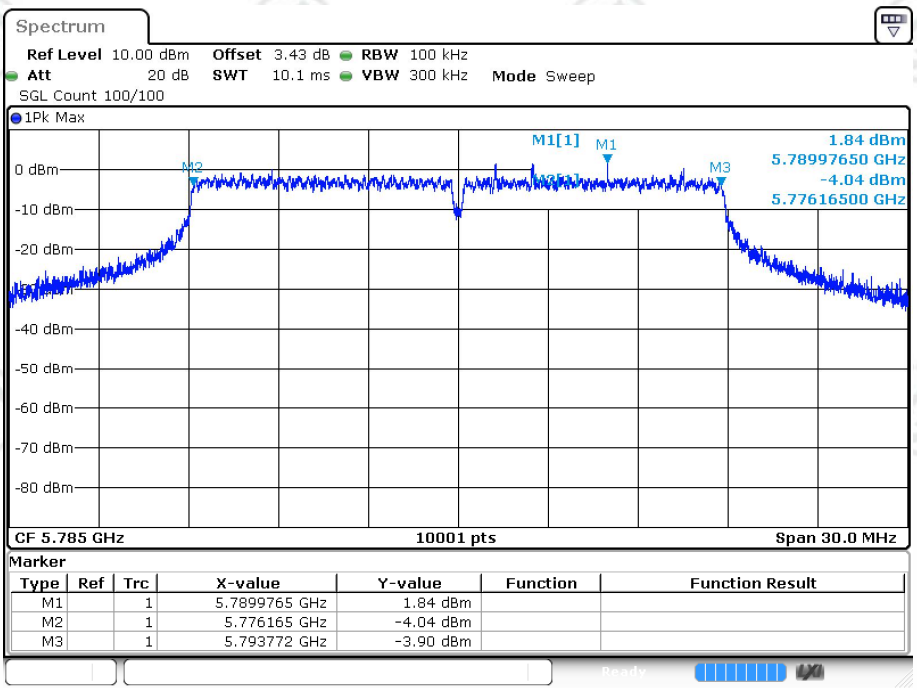
Date: 25.MAR.2025 13:44:41

-6dB Bandwidth NVNT n20 5745MHz Ant1



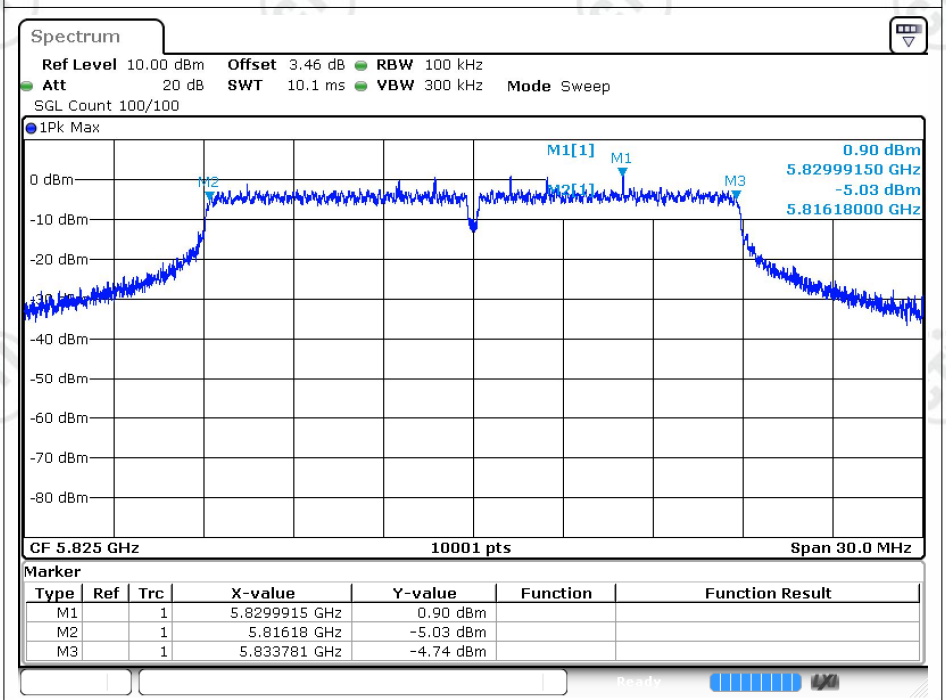
Date: 25.MAR.2025 13:47:05

-6dB Bandwidth NVNT n20 5785MHz Ant1



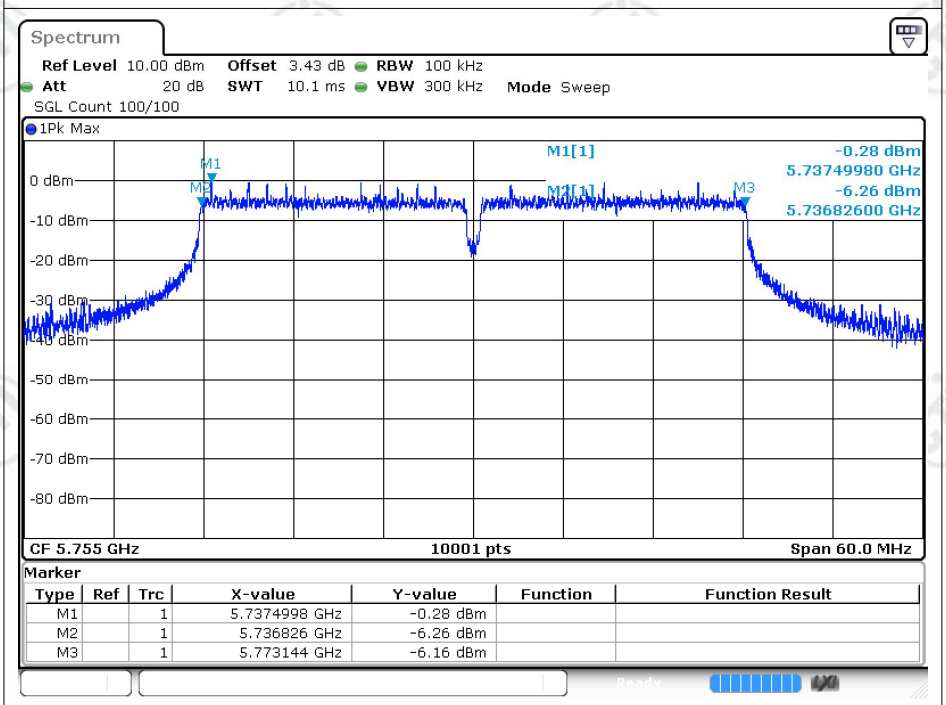
Date: 25.MAR.2025 13:49:16

-6dB Bandwidth NVNT n20 5825MHz Ant1



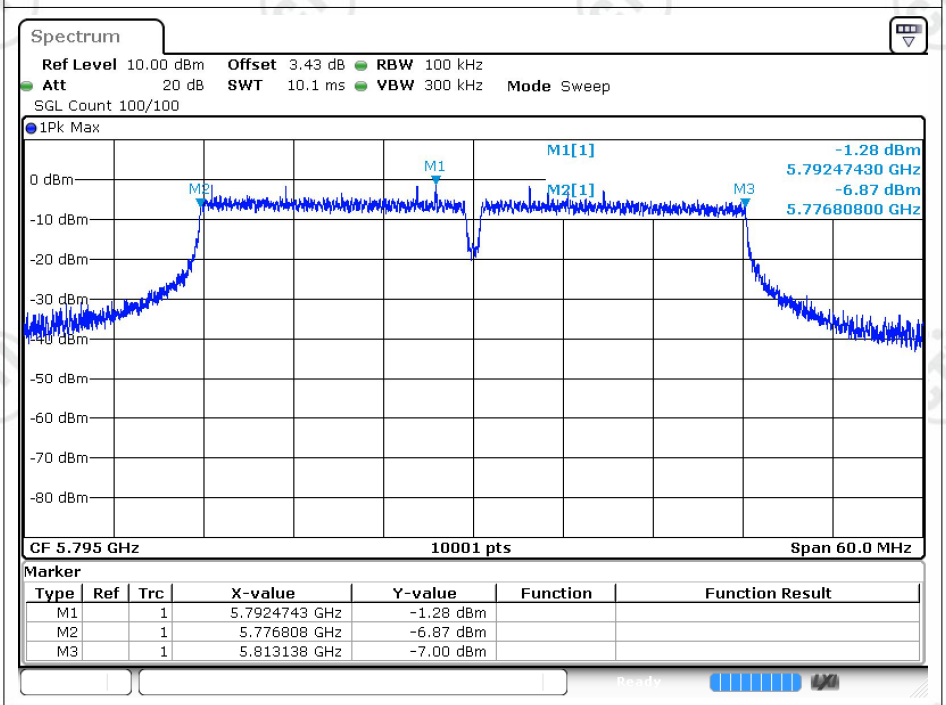
Date: 25.MAR.2025 13:50:24

-6dB Bandwidth NVNT n40 5755MHz Ant1



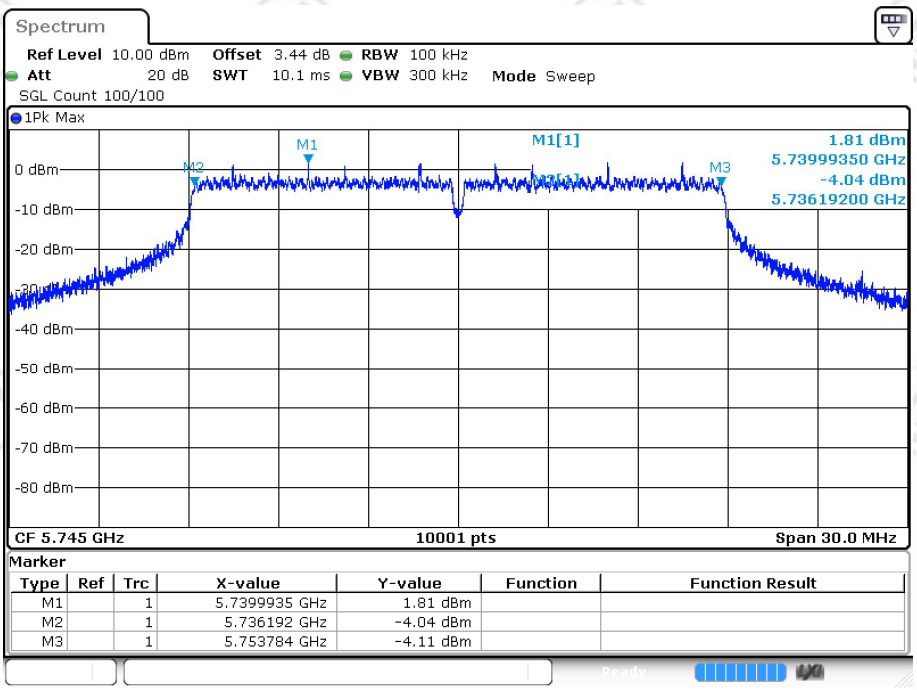
Date: 25.MAR.2025 13:52:59

-6dB Bandwidth NVNT n40 5795MHz Ant1



Date: 25.MAR.2025 13:55:59

-6dB Bandwidth NVNT ac20 5745MHz Ant1

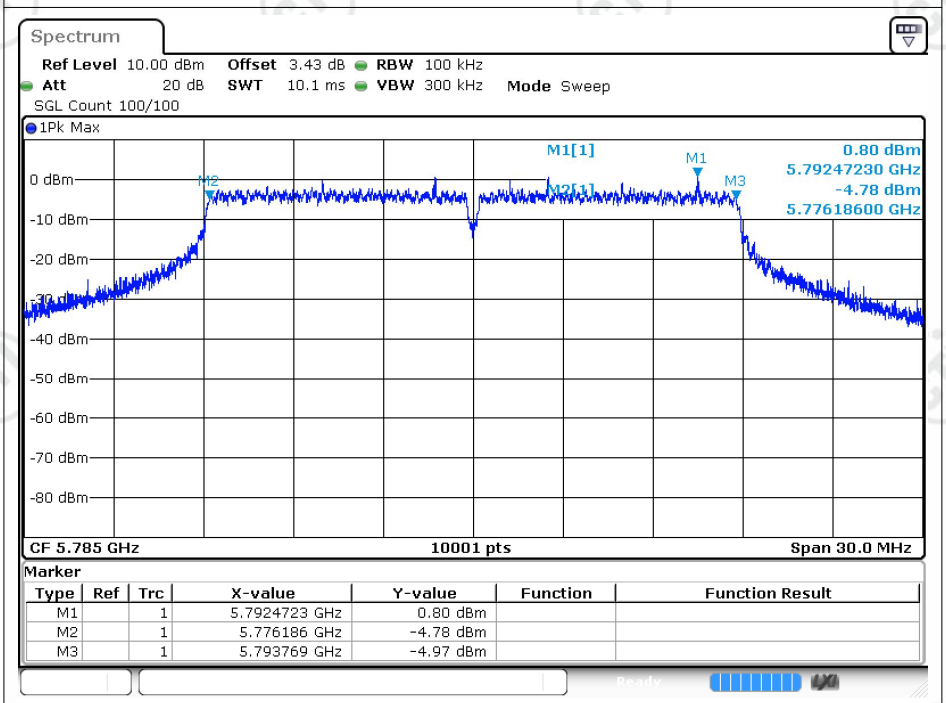


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7399935 GHz	1.81 dBm		
M2		1	5.736192 GHz	-4.04 dBm		
M3		1	5.753784 GHz	-4.11 dBm		

Date: 25.MAR.2025 13:58:54

-6dB Bandwidth NVNT ac20 5785MHz Ant1

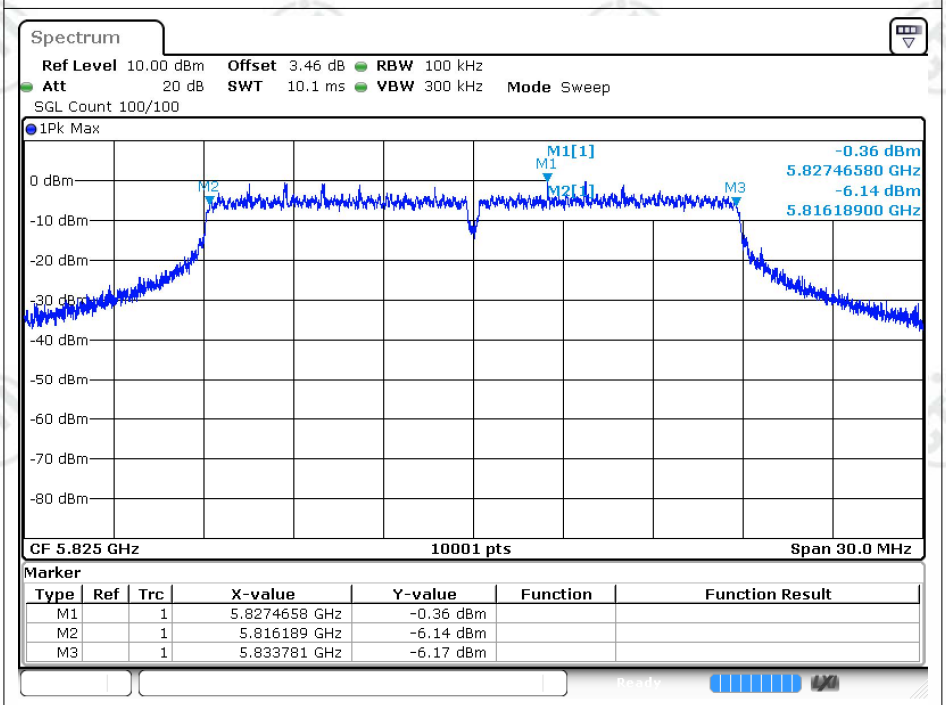


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7924723 GHz	0.80 dBm		
M2		1	5.776186 GHz	-4.78 dBm		
M3		1	5.793769 GHz	-4.97 dBm		

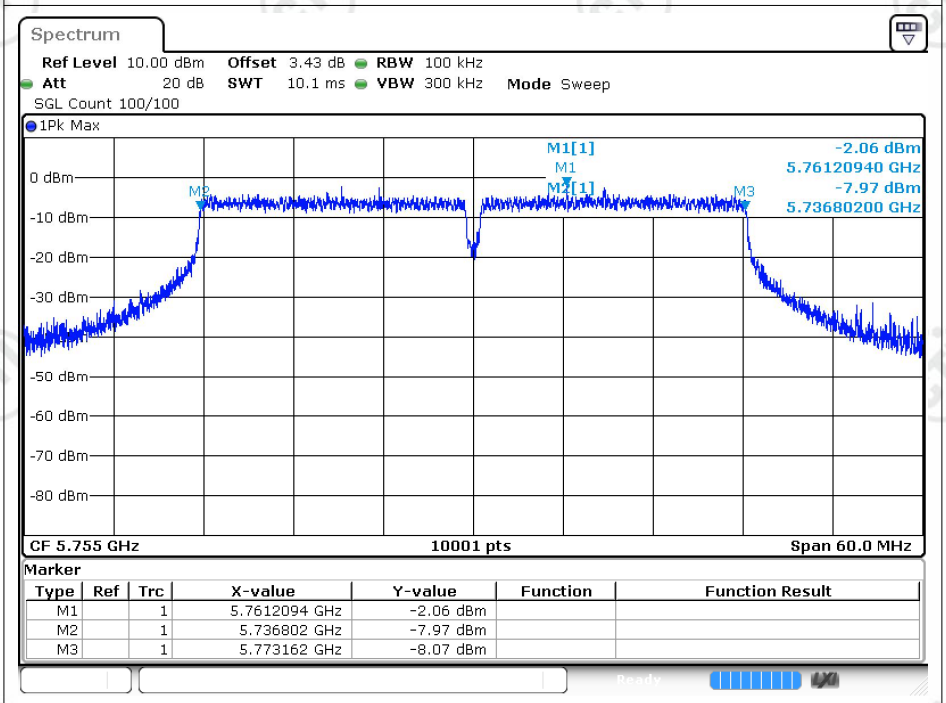
Date: 25.MAR.2025 14:01:37

-6dB Bandwidth NVNT ac20 5825MHz Ant1



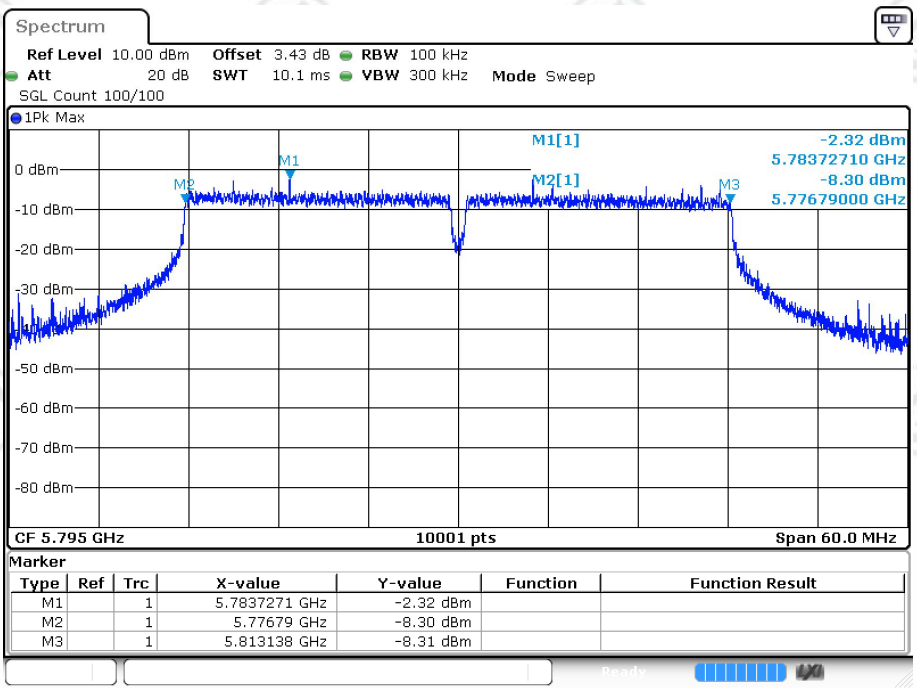
Date: 25.MAR.2025 14:03:21

-6dB Bandwidth NVNT ac40 5755MHz Ant1



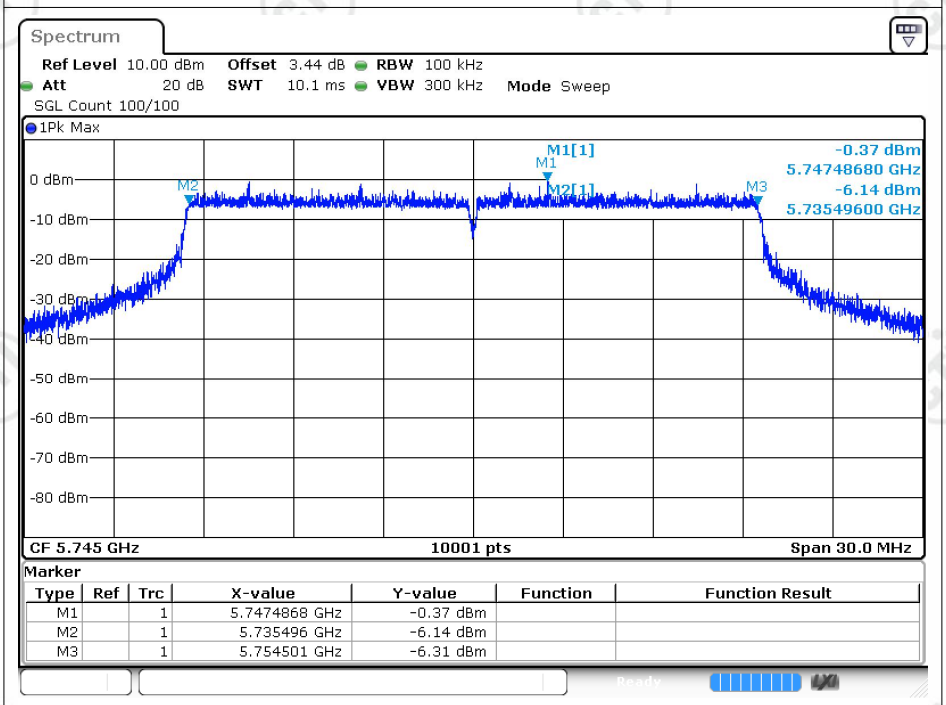
Date: 25.MAR.2025 14:12:36

-6dB Bandwidth NVNT ac40 5795MHz Ant1



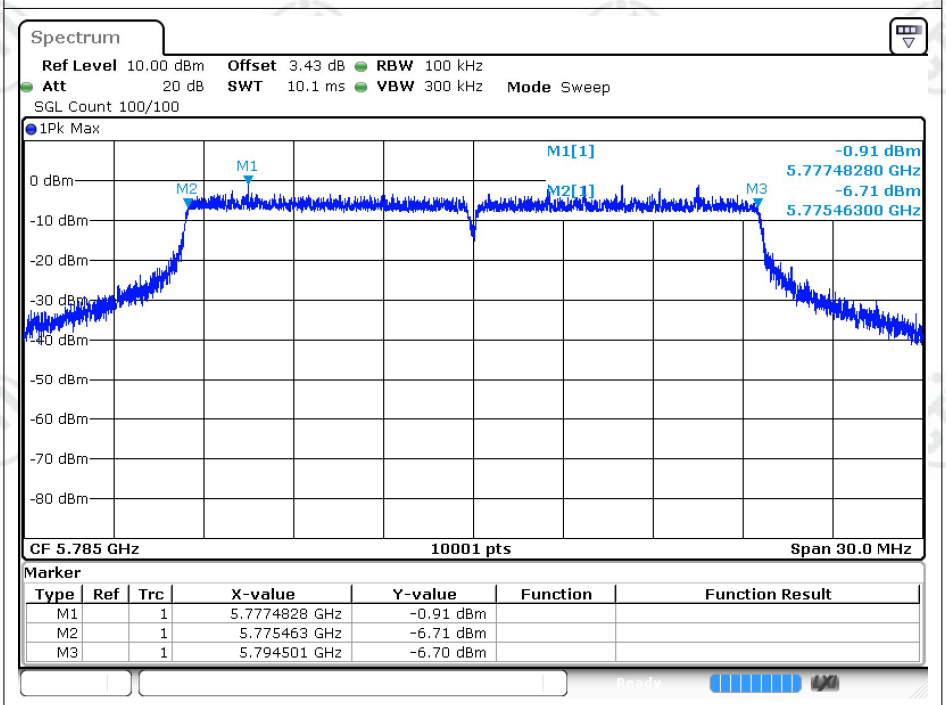
Date: 25.MAR.2025 14:14:58

-6dB Bandwidth NVNT ax20 5745MHz Ant1



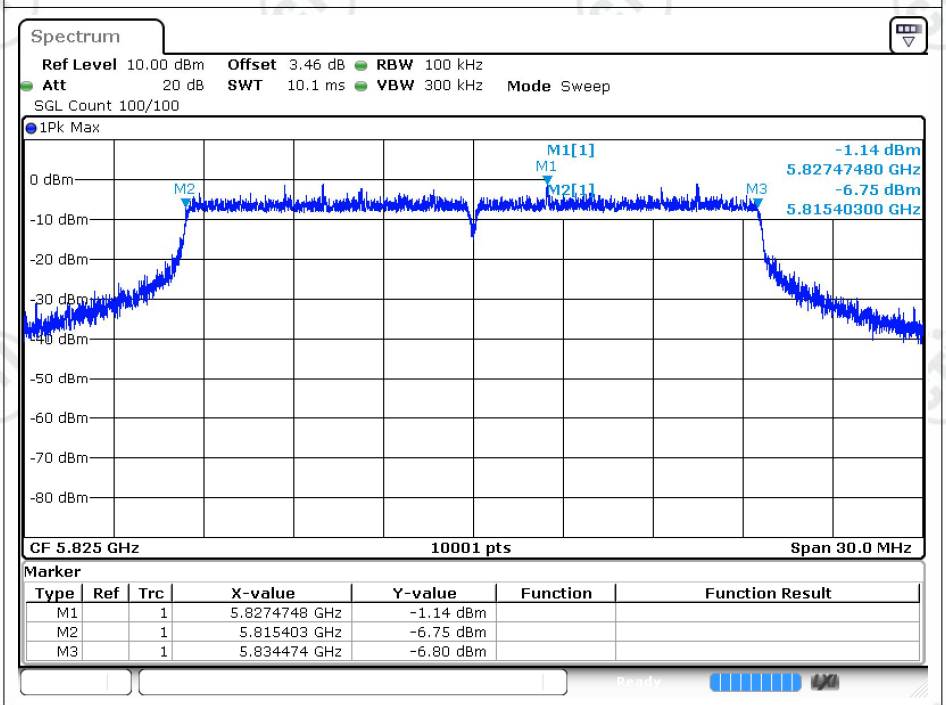
Date: 25.MAR.2025 14:18:08

-6dB Bandwidth NVNT ax20 5785MHz Ant1



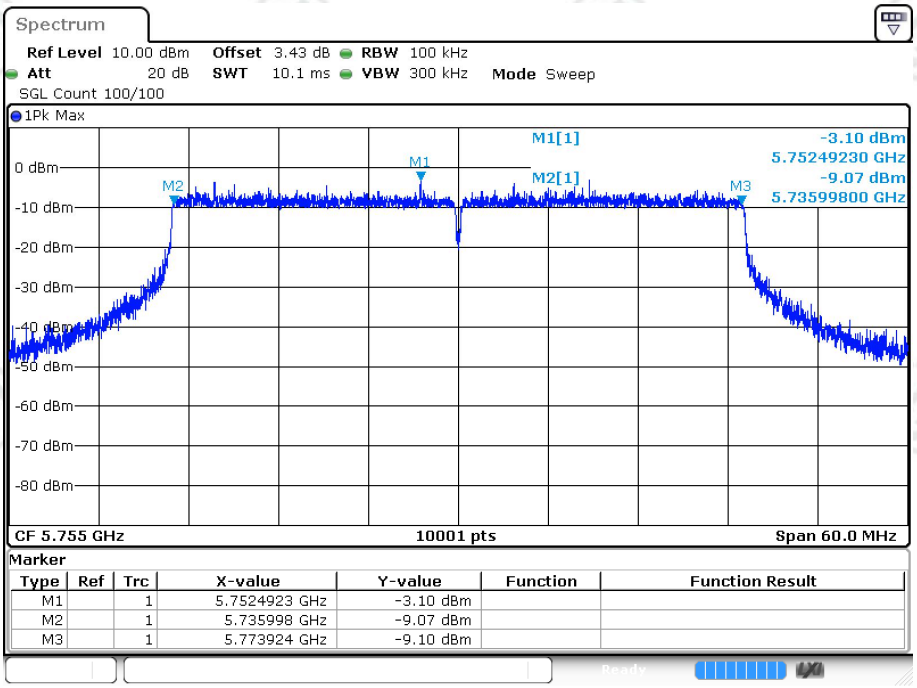
Date: 25.MAR.2025 14:20:14

-6dB Bandwidth NVNT ax20 5825MHz Ant1



Date: 25.MAR.2025 14:21:34

-6dB Bandwidth NVNT ax40 5755MHz Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7524923 GHz	-3.10 dBm		
M2		1	5.735998 GHz	-9.07 dBm		
M3		1	5.773924 GHz	-9.10 dBm		

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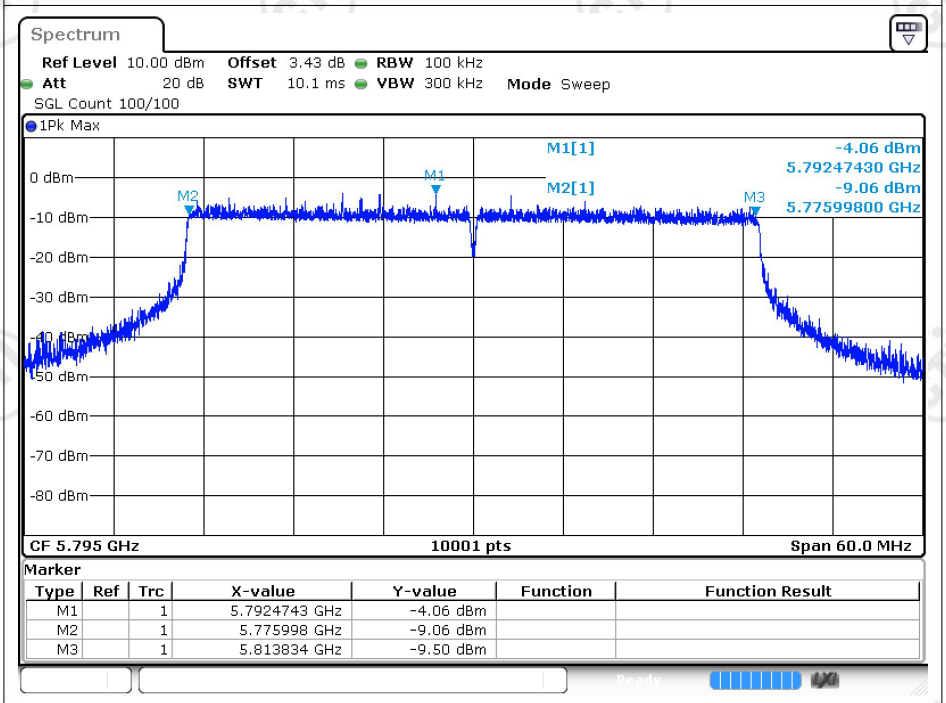
-6dB Bandwidth NVNT ax40 5795MHz Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.7924743 GHz	-4.06 dBm		
M2		1	5.775998 GHz	-9.06 dBm		
M3		1	5.813834 GHz	-9.50 dBm		

Date: 25.MAR.2025 14:25:05