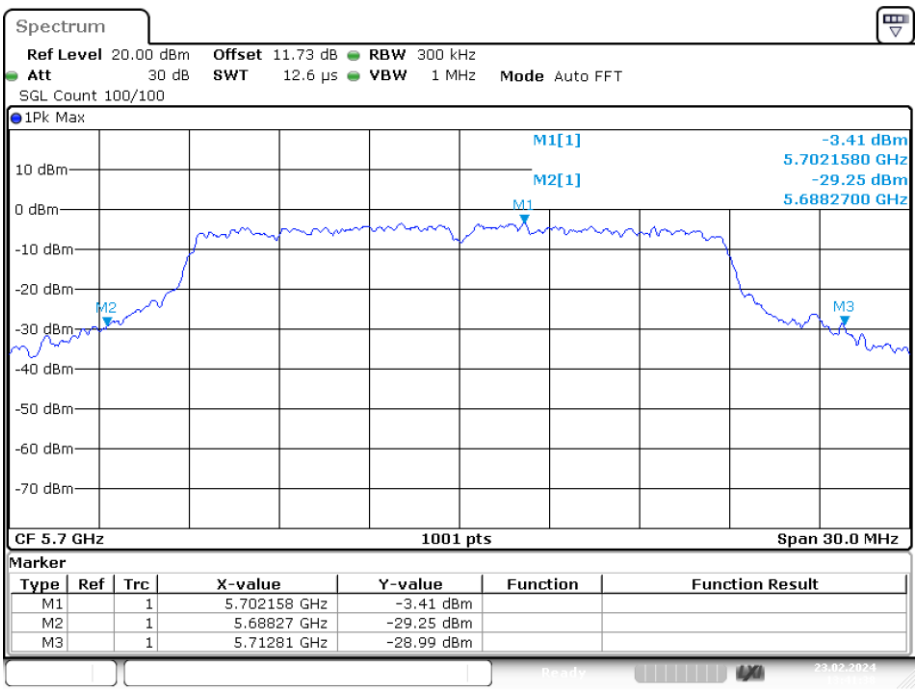
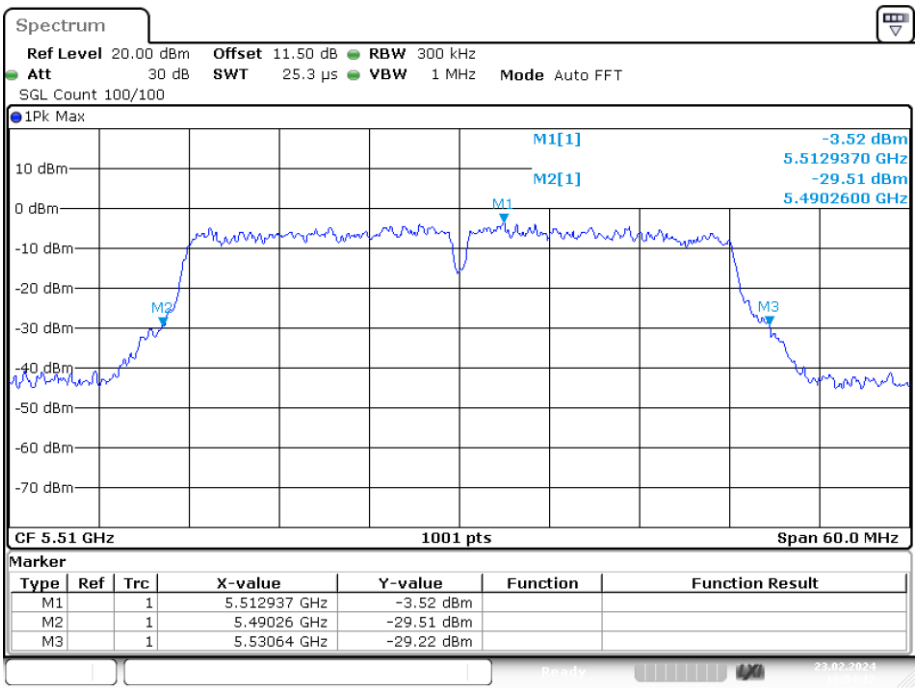
-26dB Bandwidth NVNT ac20 5700MHz Ant1



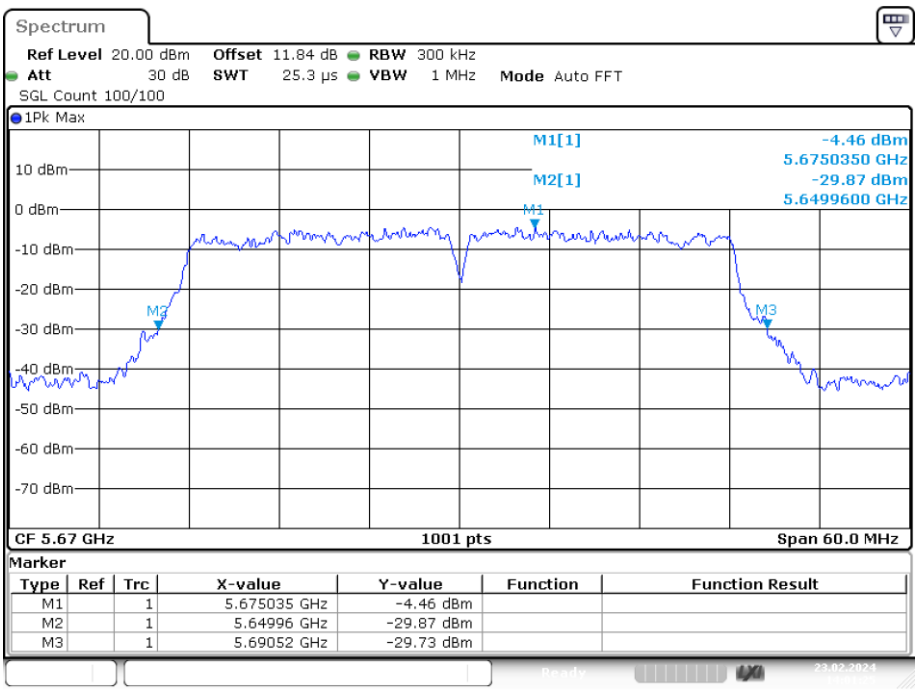
Date: 23.FEB.2024 13:41:38

-26dB Bandwidth NVNT ac40 5510MHz Ant1



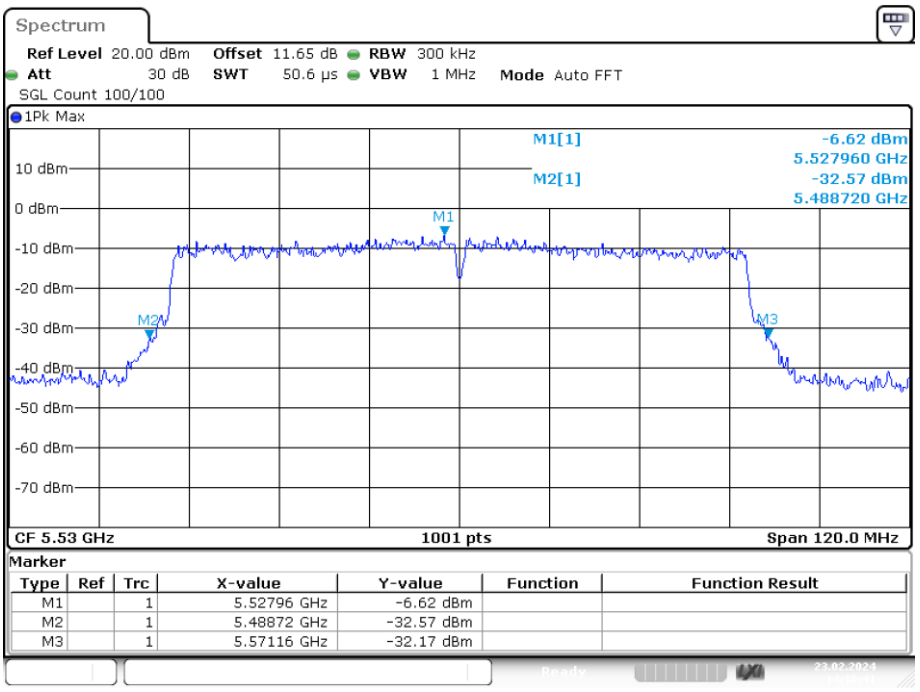
Date: 23.FEB.2024 13:54:12

-26dB Bandwidth NVNT ac40 5670MHz Ant1



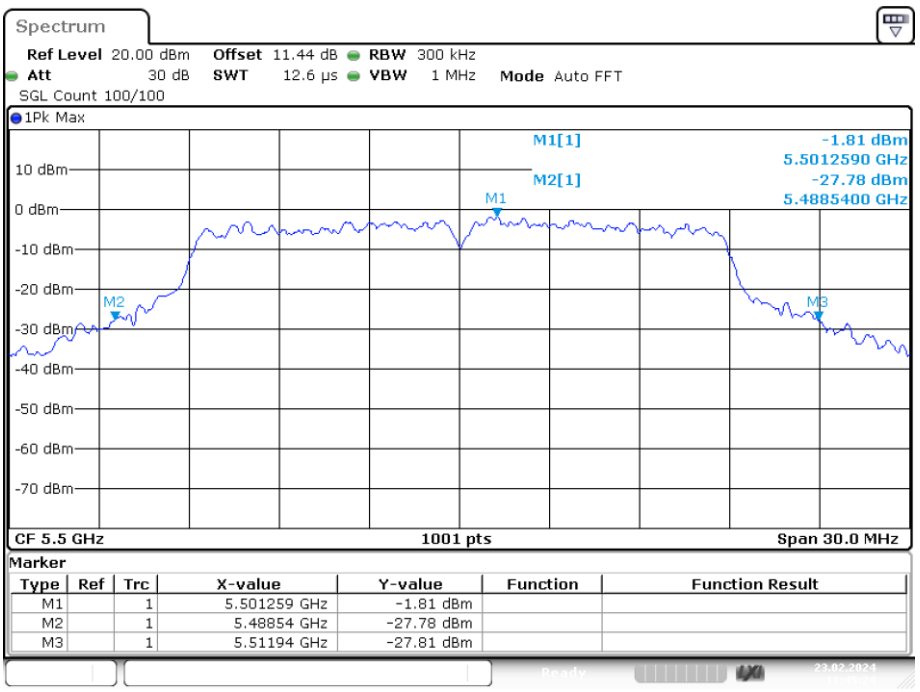
Date: 23.FEB.2024 14:01:25

-26dB Bandwidth NVNT ac80 5530MHz Ant1



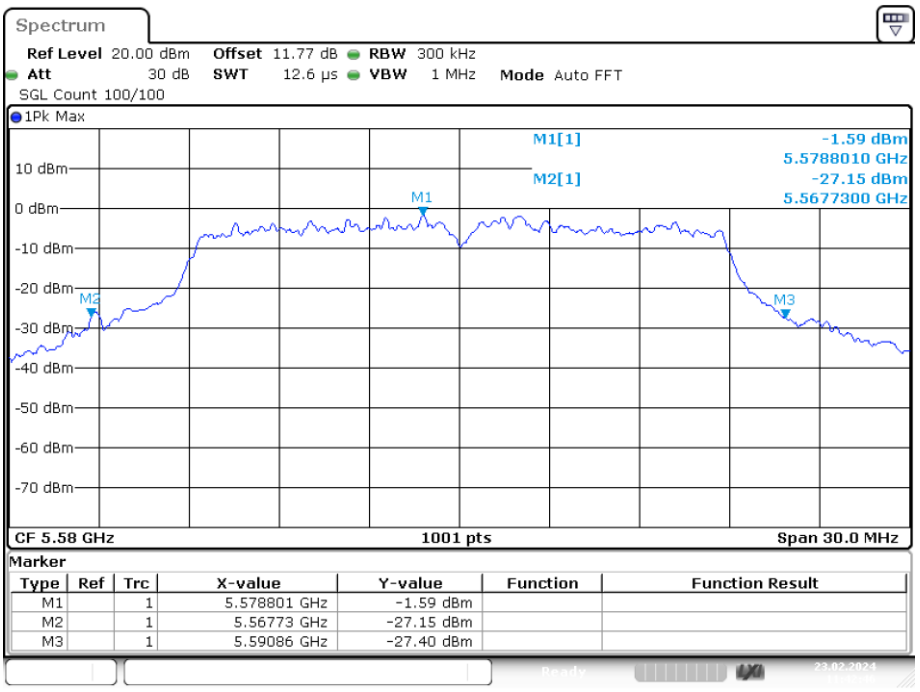
Date: 23.FEB.2024 14:18:41

-26dB Bandwidth NVNT n20 5500MHz Ant1



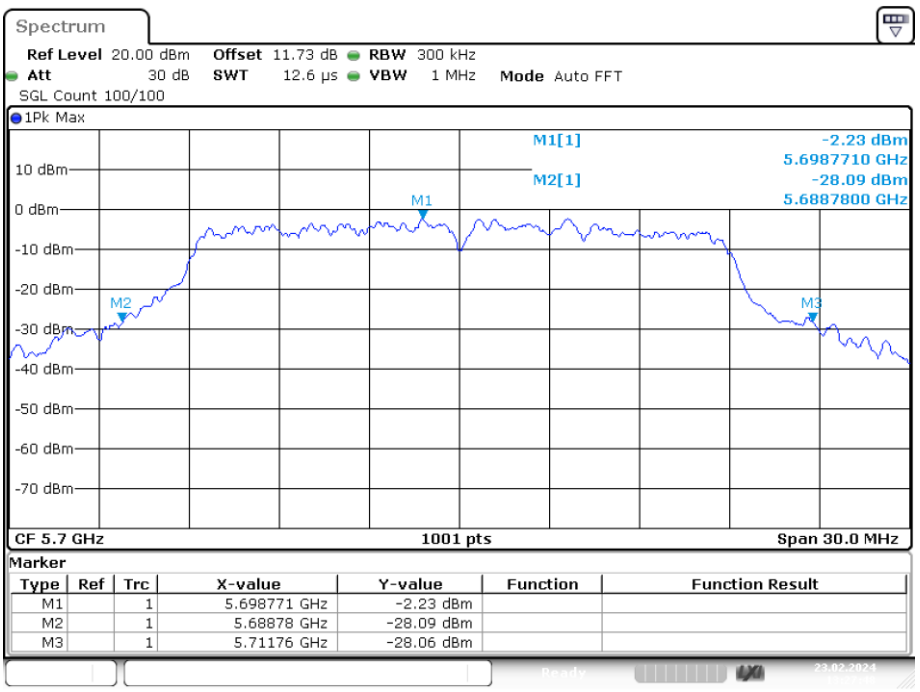
Date: 23.FEB.2024 11:45:24

-26dB Bandwidth NVNT n20 5580MHz Ant1



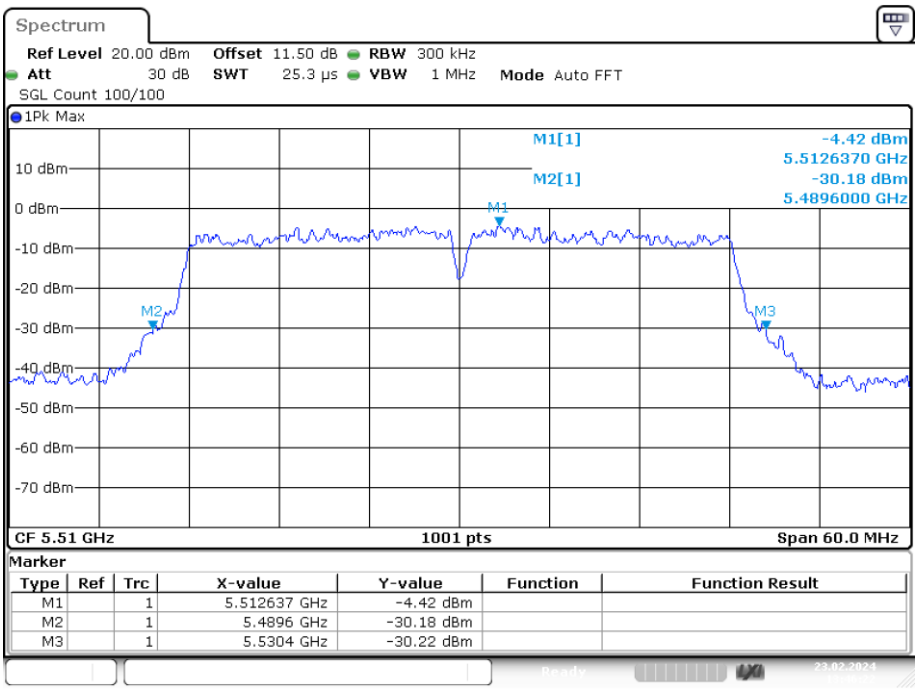
Date: 23.FEB.2024 11:42:46

-26dB Bandwidth NVNT n20 5700MHz Ant1



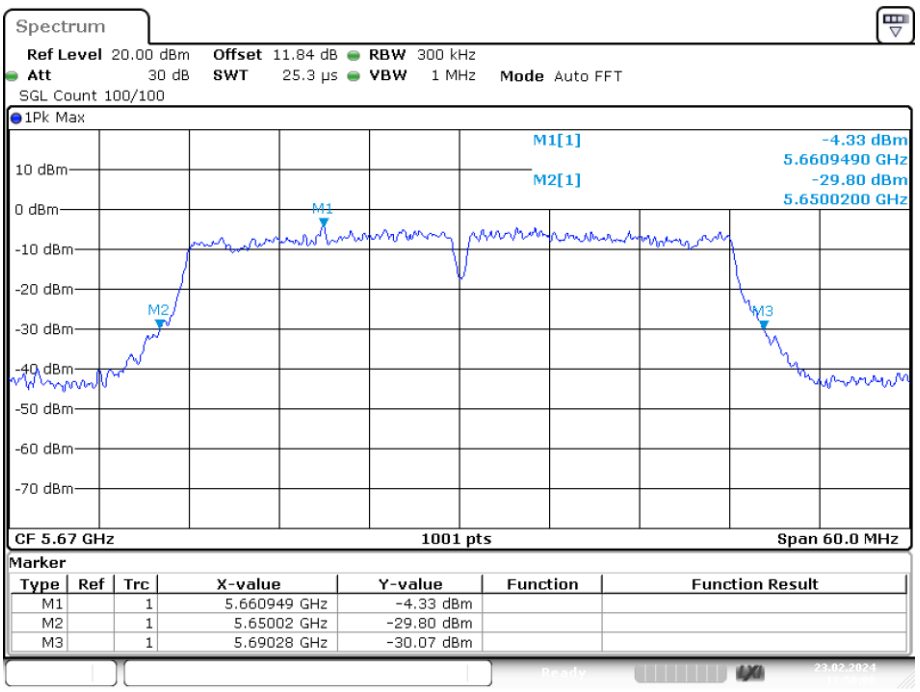
Date: 23.FEB.2024 13:27:48

-26dB Bandwidth NVNT n40 5510MHz Ant1



Date: 23.FEB.2024 13:46:22

-26dB Bandwidth NVNT n40 5670MHz Ant1

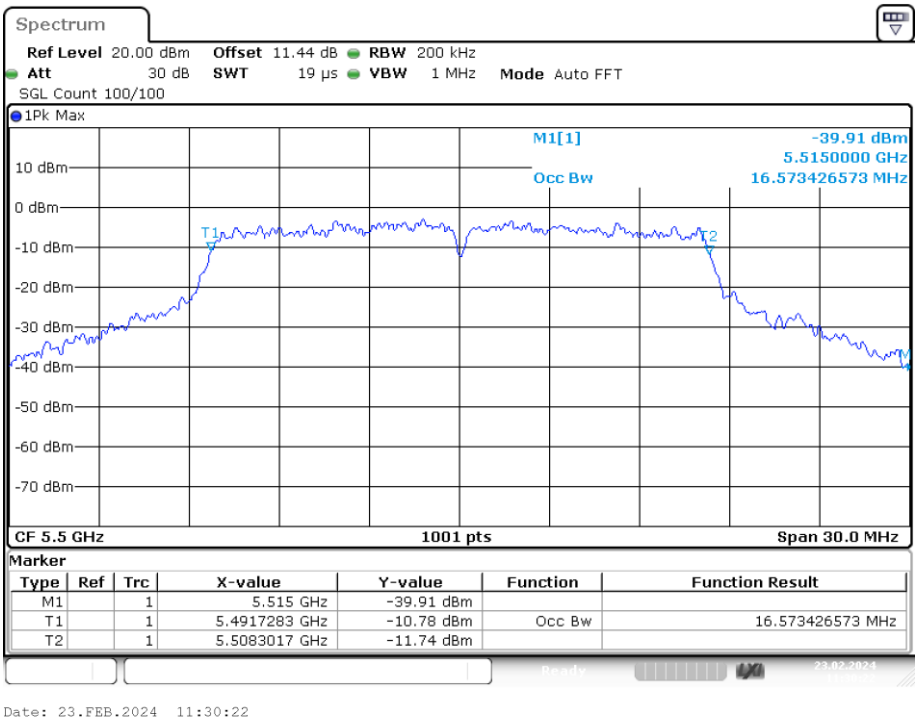


Date: 23.FEB.2024 13:50:08

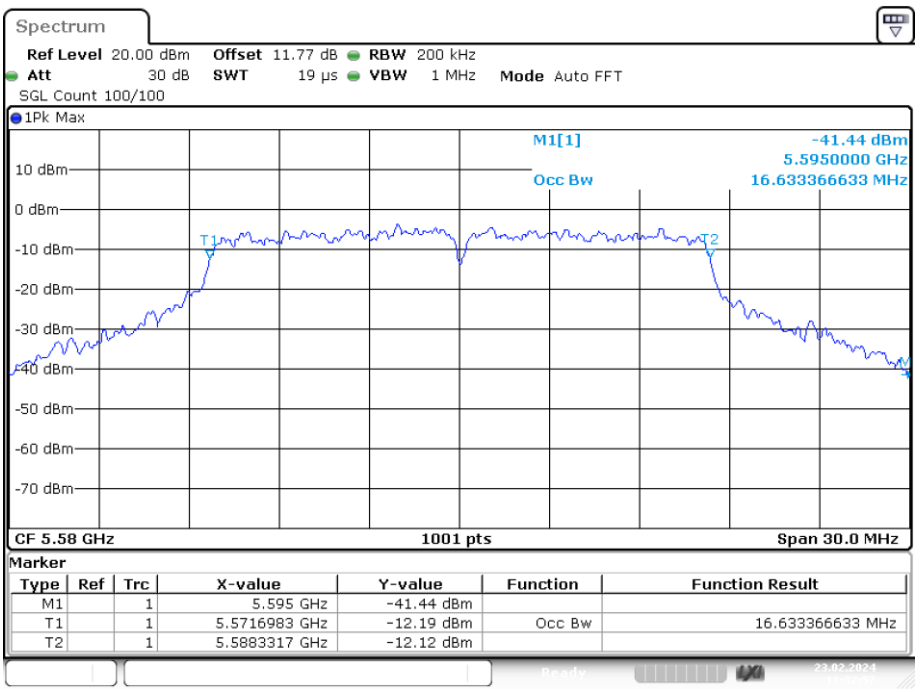
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.573
NVNT	a	5580	Ant1	16.633
NVNT	a	5700	Ant1	16.513
NVNT	ac20	5500	Ant1	17.862
NVNT	ac20	5580	Ant1	17.742
NVNT	ac20	5700	Ant1	17.802
NVNT	ac40	5510	Ant1	36.204
NVNT	ac40	5670	Ant1	36.384
NVNT	ac80	5530	Ant1	75.405
NVNT	n20	5500	Ant1	17.832
NVNT	n20	5580	Ant1	17.712
NVNT	n20	5700	Ant1	17.802
NVNT	n40	5510	Ant1	36.144
NVNT	n40	5670	Ant1	36.204

OBW NVNT a 5500MHz Ant1

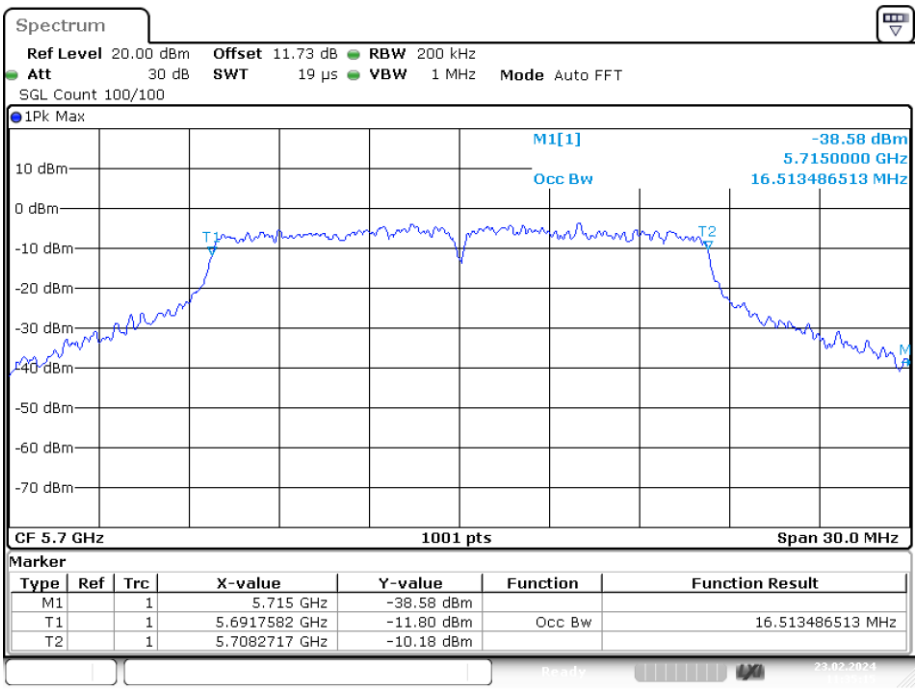


OBW NVNT a 5580MHz Ant1



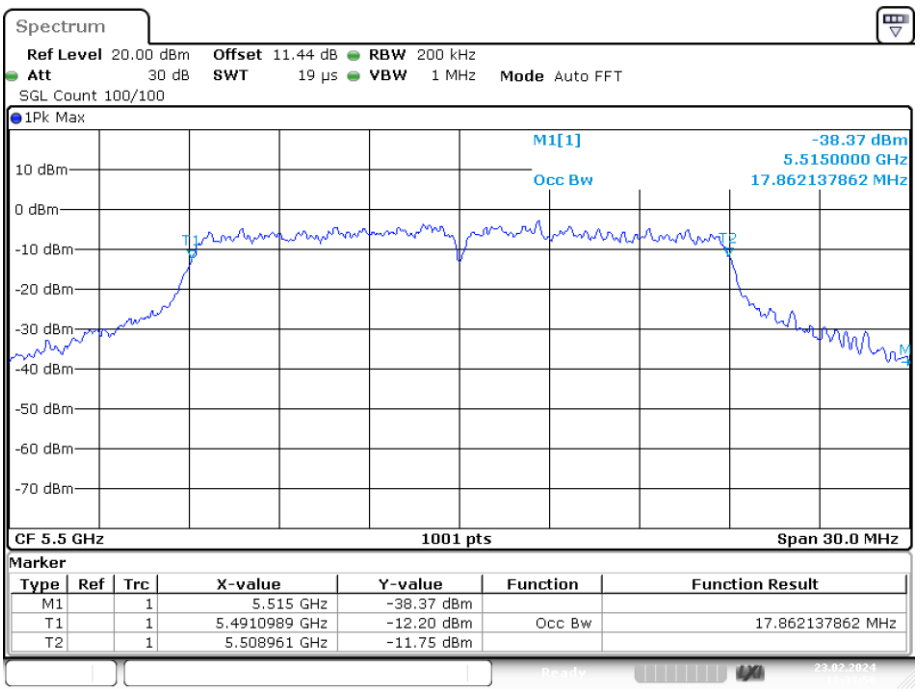
Date: 23.FEB.2024 11:32:56

OBW NVNT a 5700MHz Ant1



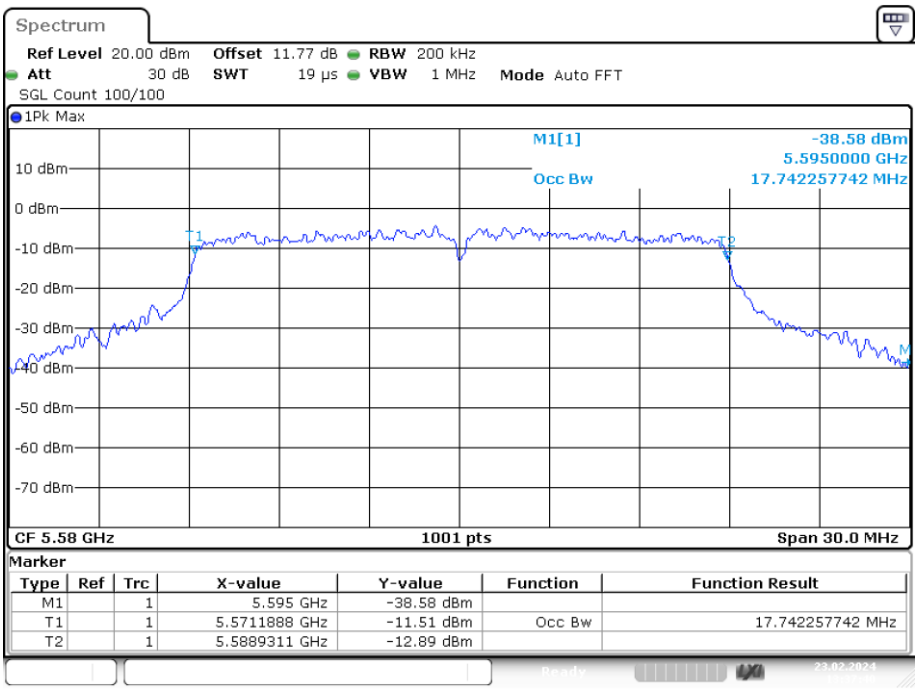
Date: 23.FEB.2024 11:35:15

OBW NVNT ac20 5500MHz Ant1



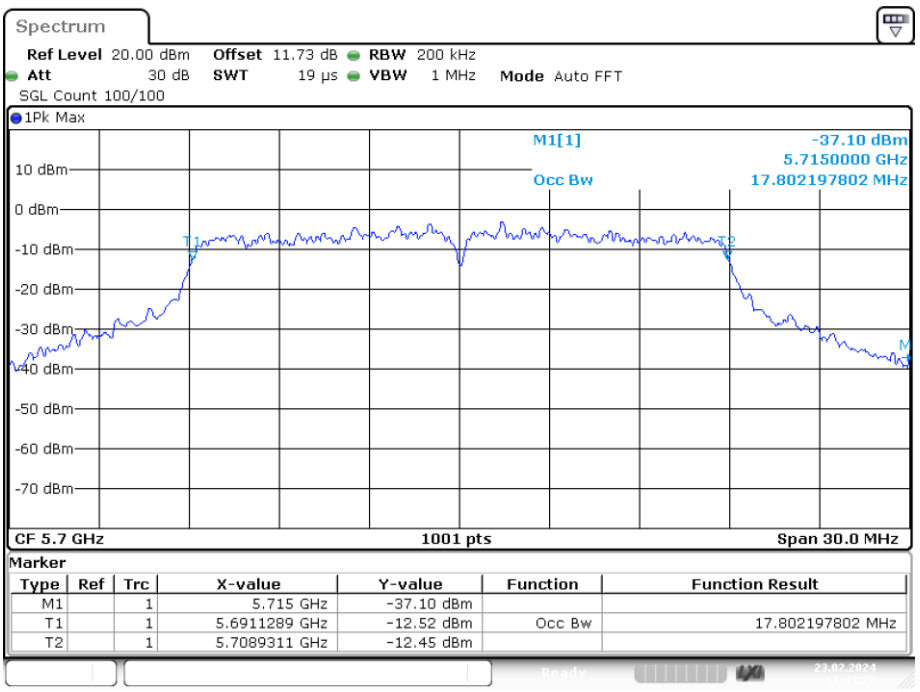
Date: 23.FEB.2024 13:33:50

OBW NVNT ac20 5580MHz Ant1



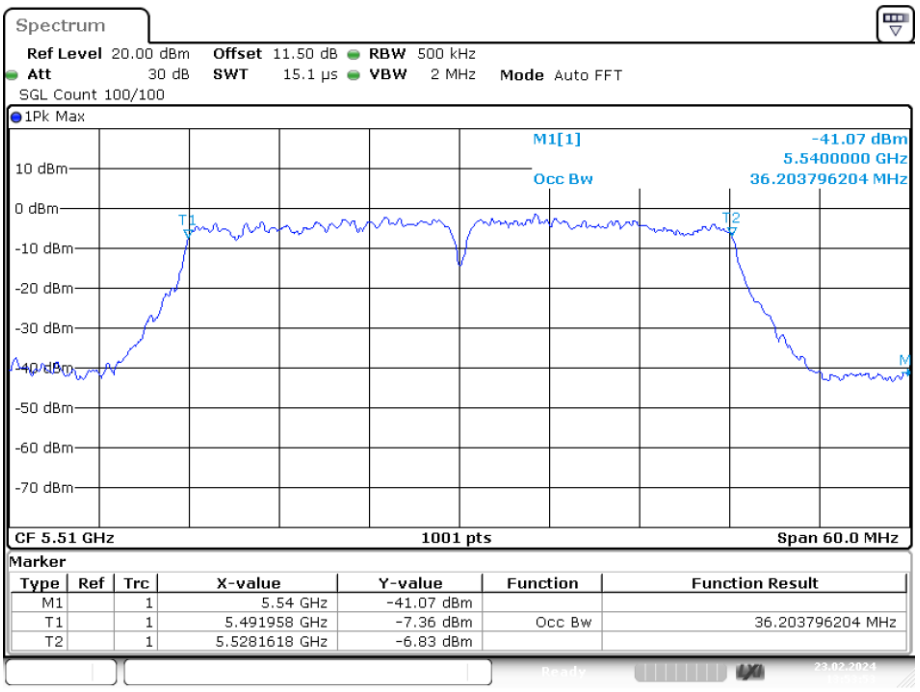
Date: 23.FEB.2024 13:37:40

OBW NVNT ac20 5700MHz Ant1



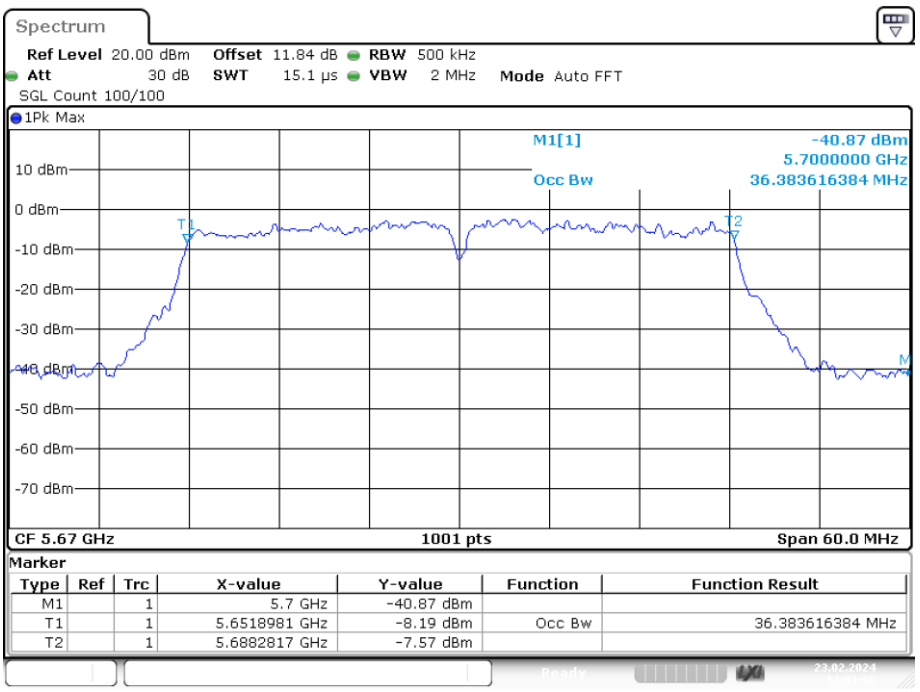
Date: 23.FEB.2024 13:41:23

OBW NVNT ac40 5510MHz Ant1



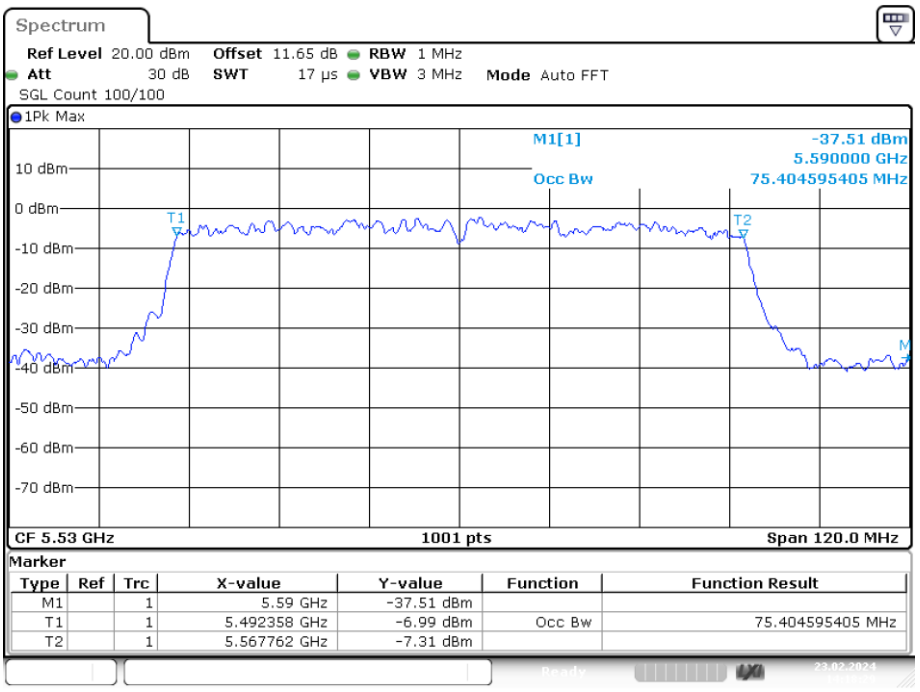
Date: 23.FEB.2024 13:53:52

OBW NVNT ac40 5670MHz Ant1



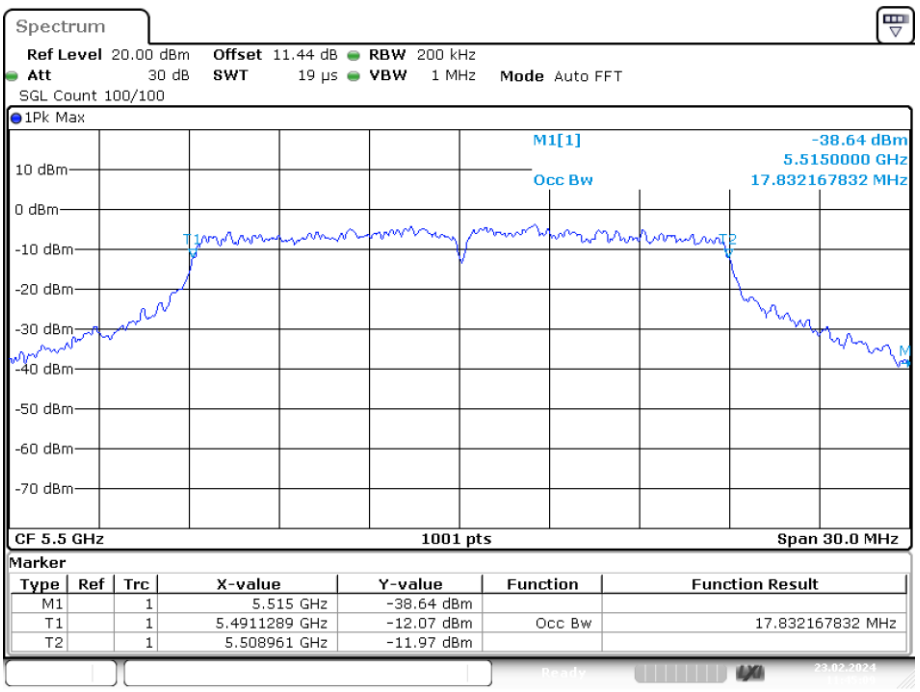
Date: 23.FEB.2024 14:01:05

OBW NVNT ac80 5530MHz Ant1



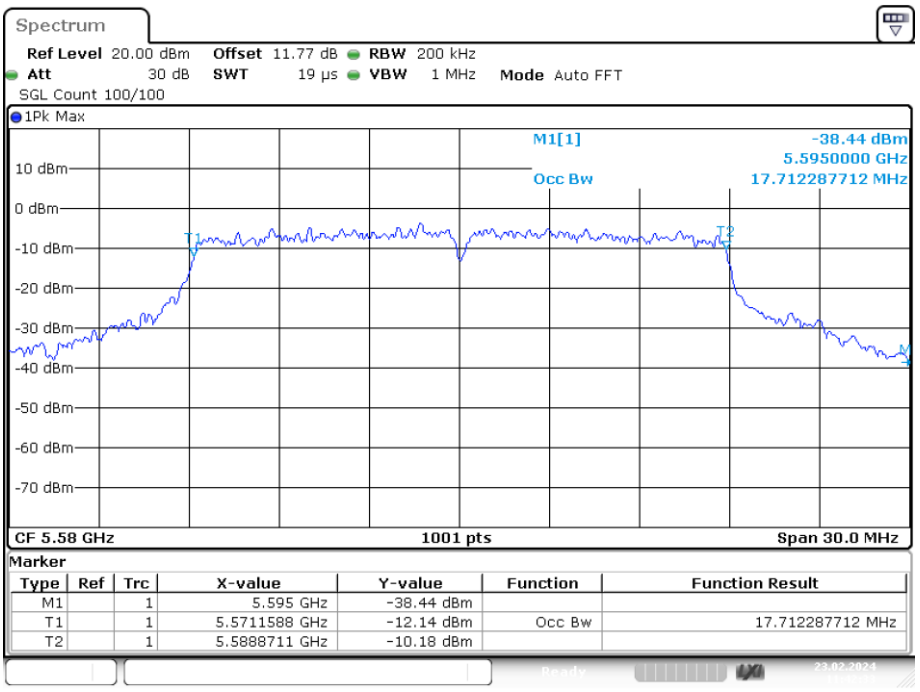
Date: 23.FEB.2024 14:18:29

OBW NVNT n20 5500MHz Ant1



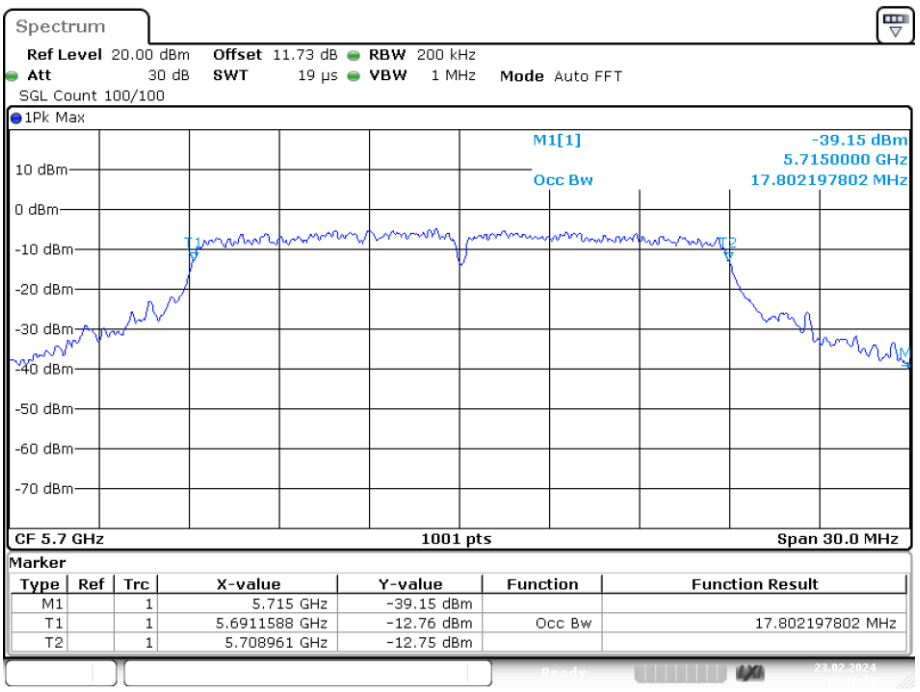
Date: 23.FEB.2024 11:45:08

OBW NVNT n20 5580MHz Ant1



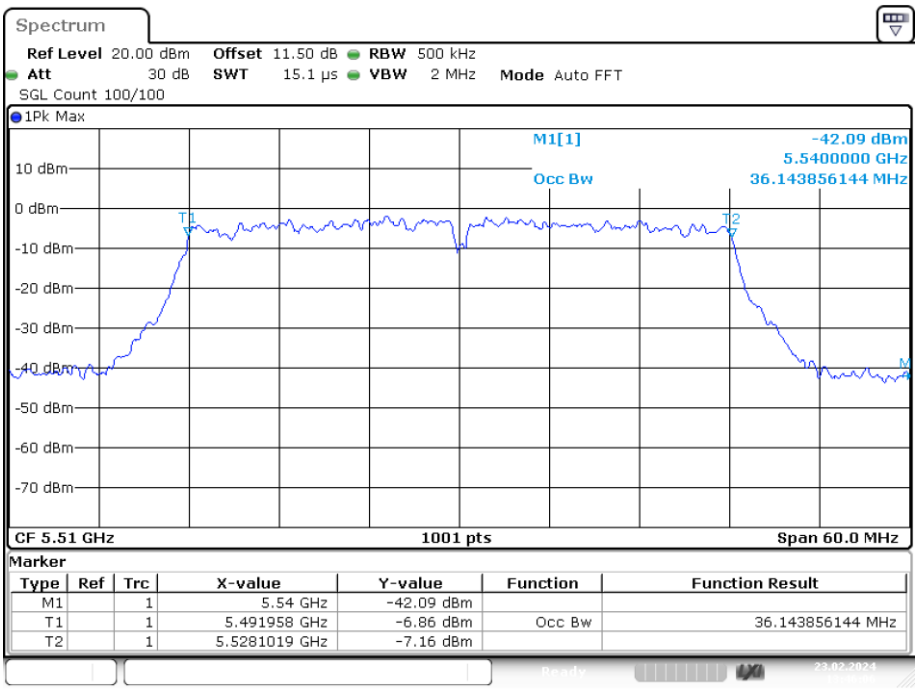
Date: 23.FEB.2024 11:42:32

OBW NVNT n20 5700MHz Ant1



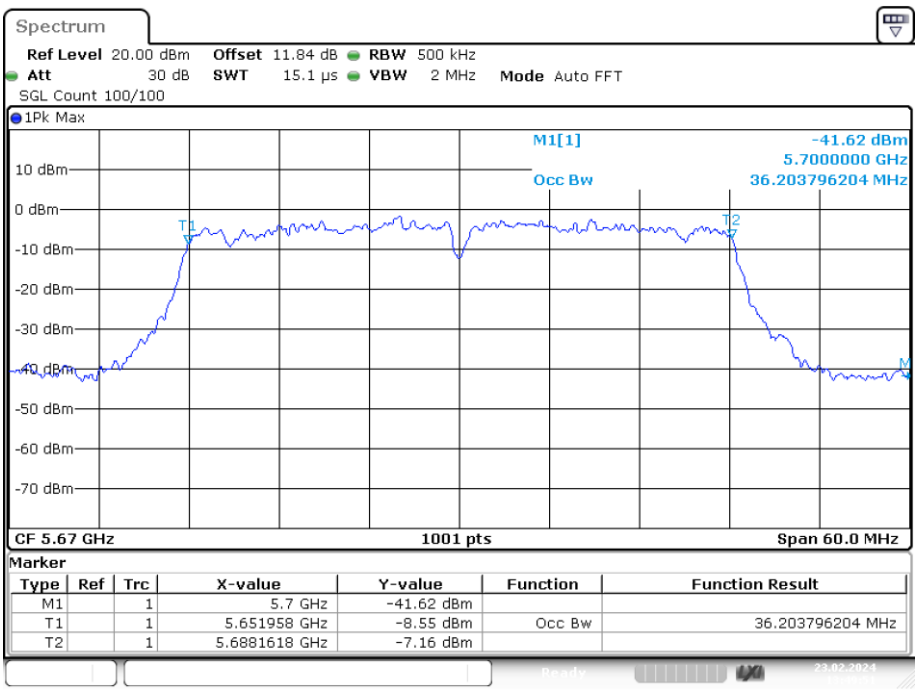
Date: 23.FEB.2024 13:27:33

OBW NVNT n40 5510MHz Ant1



Date: 23.FEB.2024 13:46:05

OBW NVNT n40 5670MHz Ant1

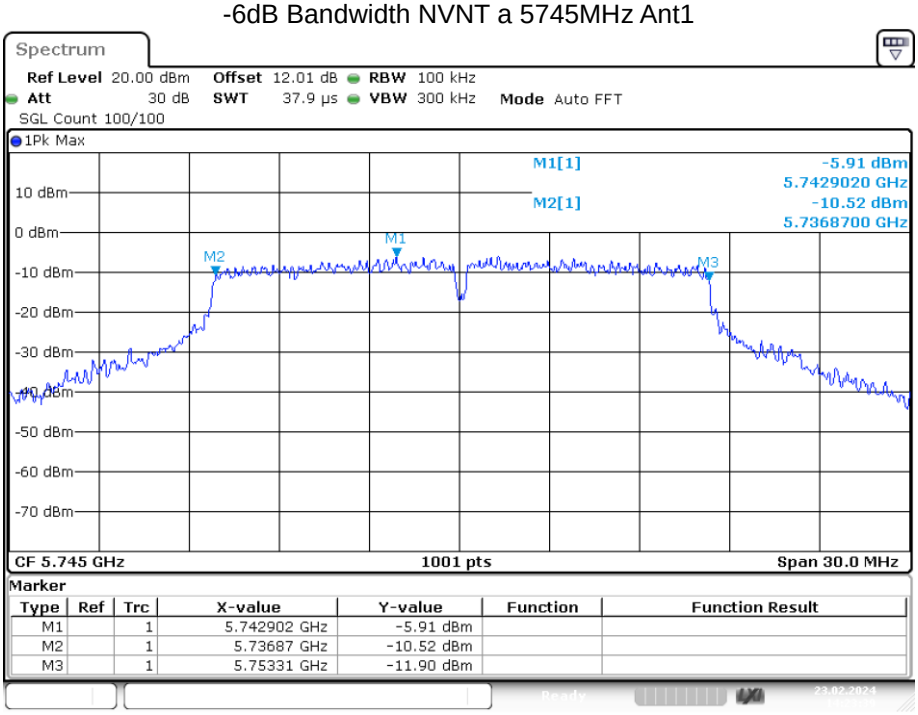


Date: 23.FEB.2024 13:49:51

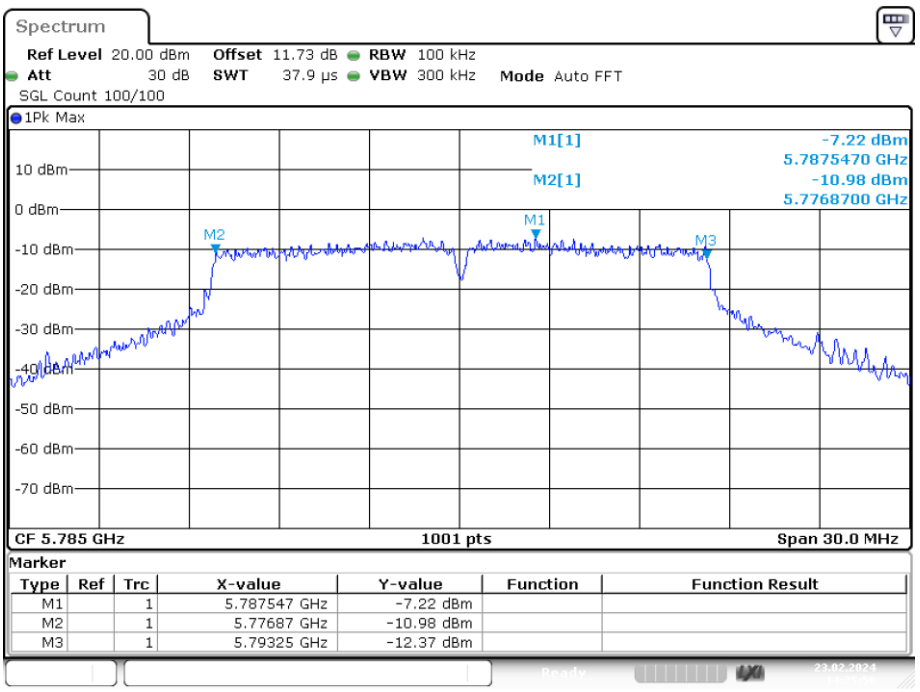
Band 4 (5725-5850 MHz):
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.44	0.5	Pass
NVNT	a	5785	Ant1	16.38	0.5	Pass
NVNT	a	5825	Ant1	16.35	0.5	Pass
NVNT	ac20	5745	Ant1	15.39	0.5	Pass
NVNT	ac20	5785	Ant1	15.06	0.5	Pass
NVNT	ac20	5825	Ant1	17.64	0.5	Pass
NVNT	ac40	5755	Ant1	35.4	0.5	Pass
NVNT	ac40	5795	Ant1	36.42	0.5	Pass
NVNT	ac80	5775	Ant1	75.24	0.5	Pass
NVNT	n20	5745	Ant1	17.31	0.5	Pass
NVNT	n20	5785	Ant1	15.09	0.5	Pass
NVNT	n20	5825	Ant1	17.61	0.5	Pass
NVNT	n40	5755	Ant1	36.36	0.5	Pass
NVNT	n40	5795	Ant1	35.7	0.5	Pass

-6dB Bandwidth NVNT a 5745MHz Ant1

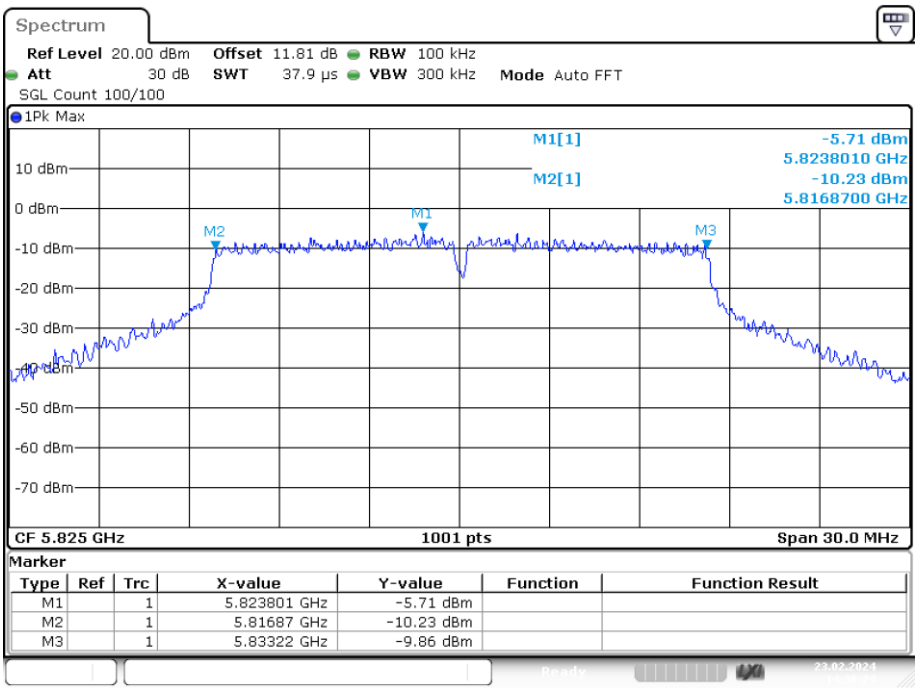


-6dB Bandwidth NVNT a 5785MHz Ant1



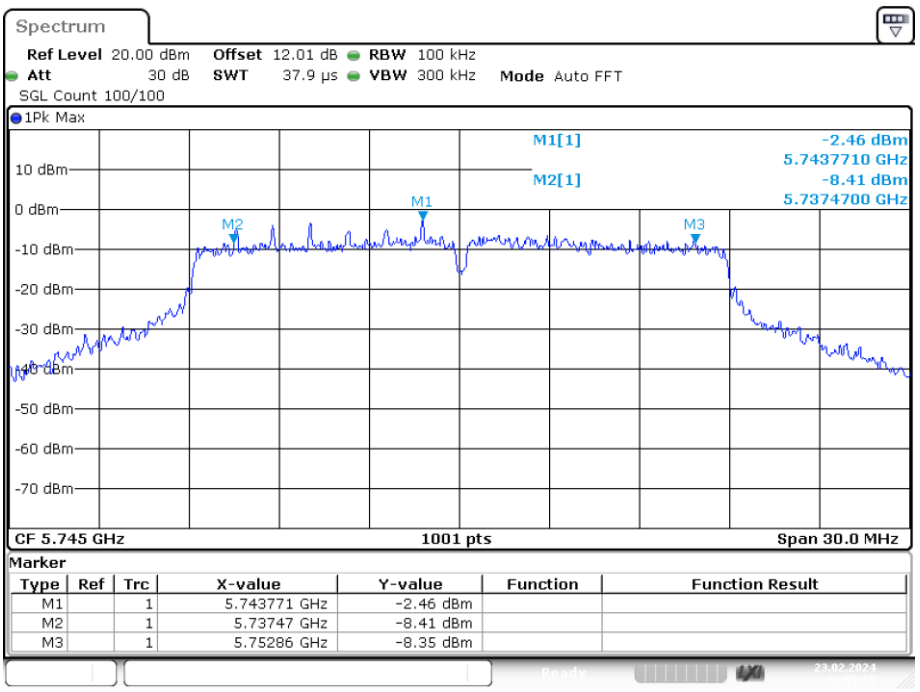
Date: 23.FEB.2024 14:25:55

-6dB Bandwidth NVNT a 5825MHz Ant1



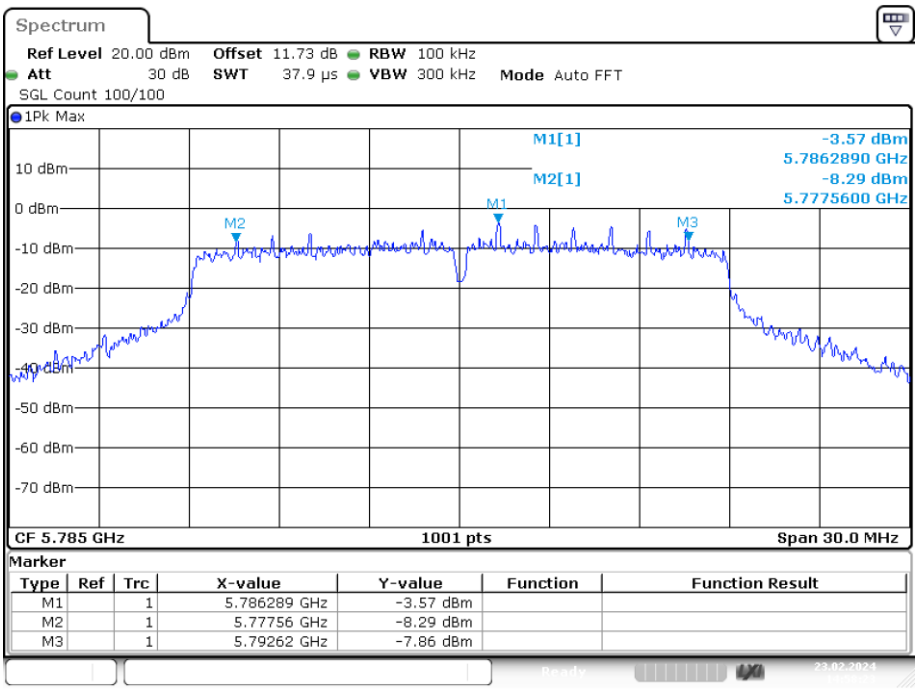
Date: 23.FEB.2024 14:30:24

-6dB Bandwidth NVNT ac20 5745MHz Ant1



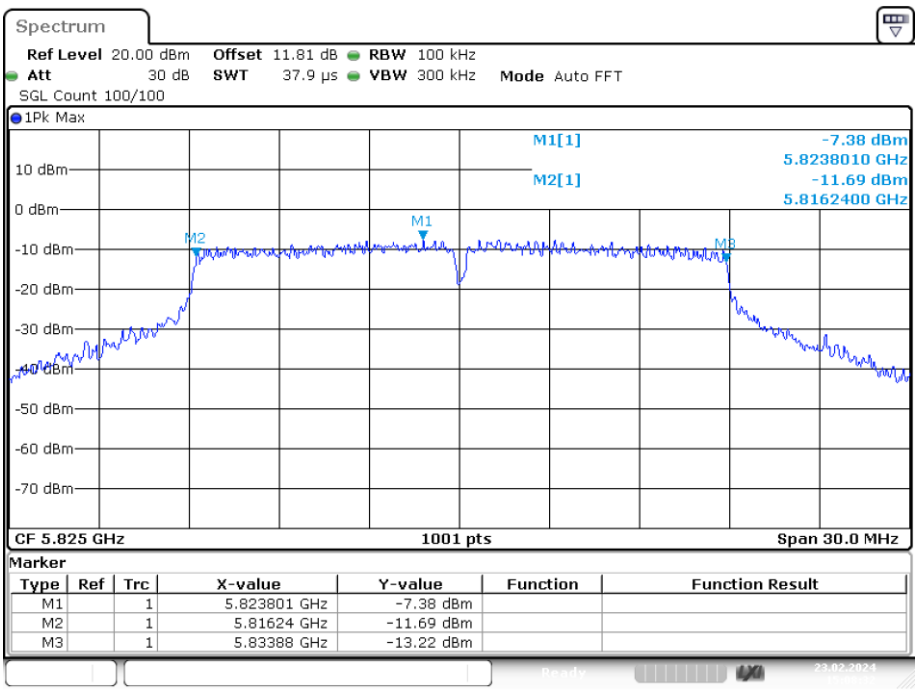
Date: 23.FEB.2024 14:53:55

-6dB Bandwidth NVNT ac20 5785MHz Ant1



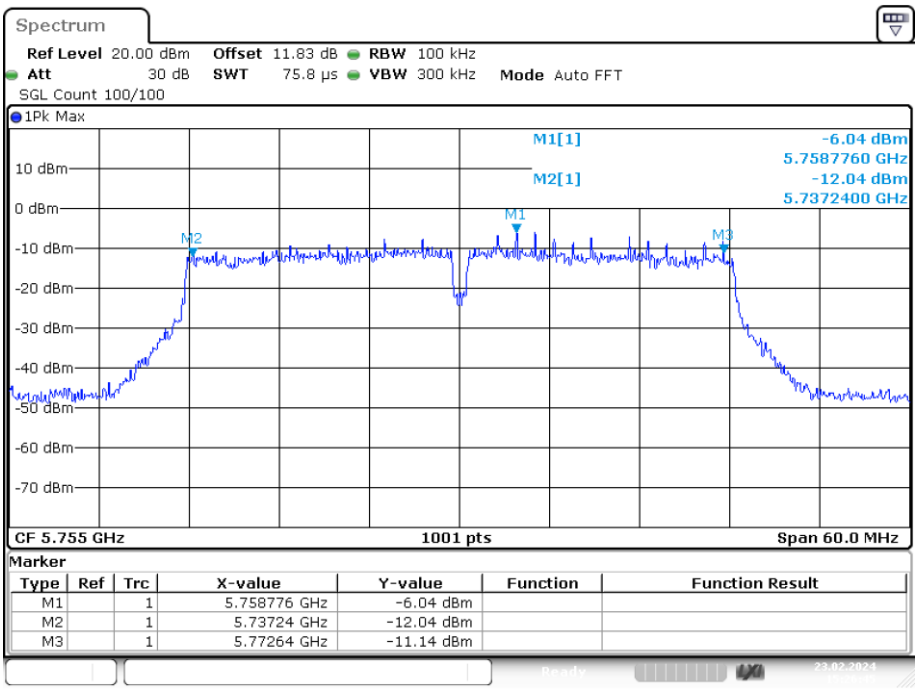
Date: 23.FEB.2024 14:58:23

-6dB Bandwidth NVNT ac20 5825MHz Ant1



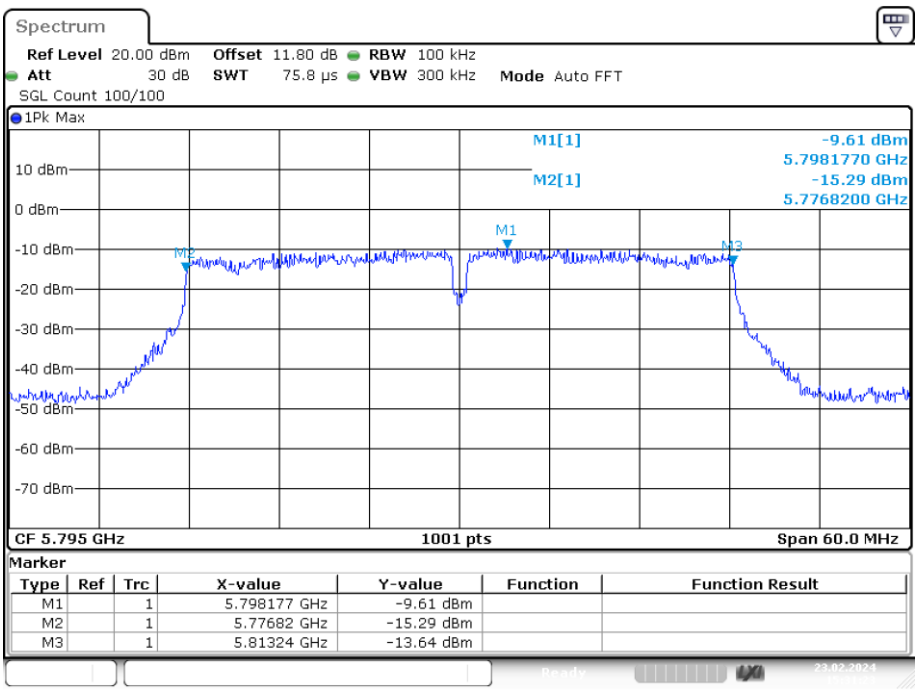
Date: 23.FEB.2024 15:08:31

-6dB Bandwidth NVNT ac40 5755MHz Ant1



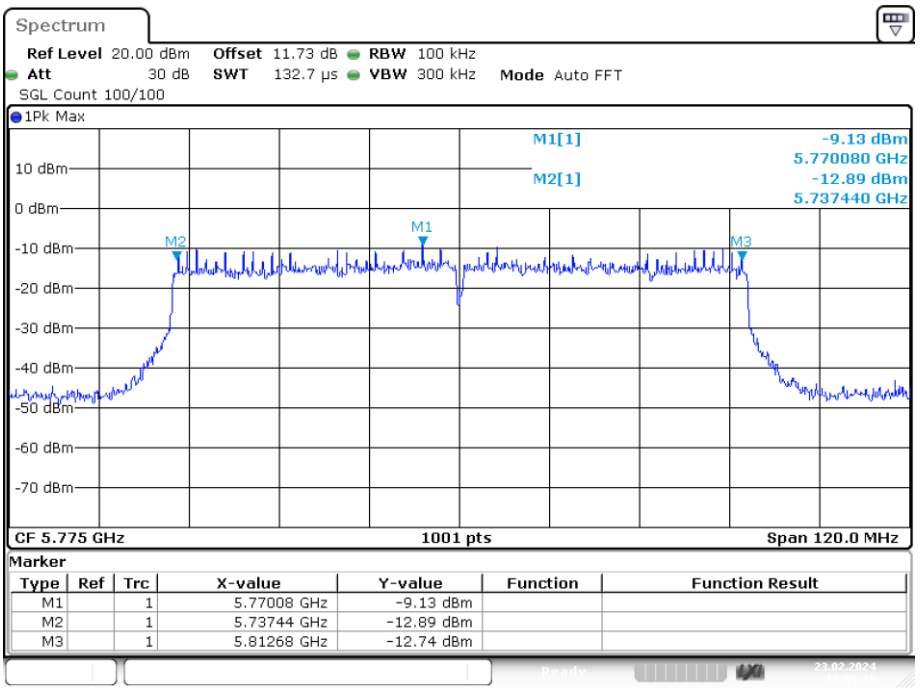
Date: 23.FEB.2024 15:26:45

-6dB Bandwidth NVNT ac40 5795MHz Ant1



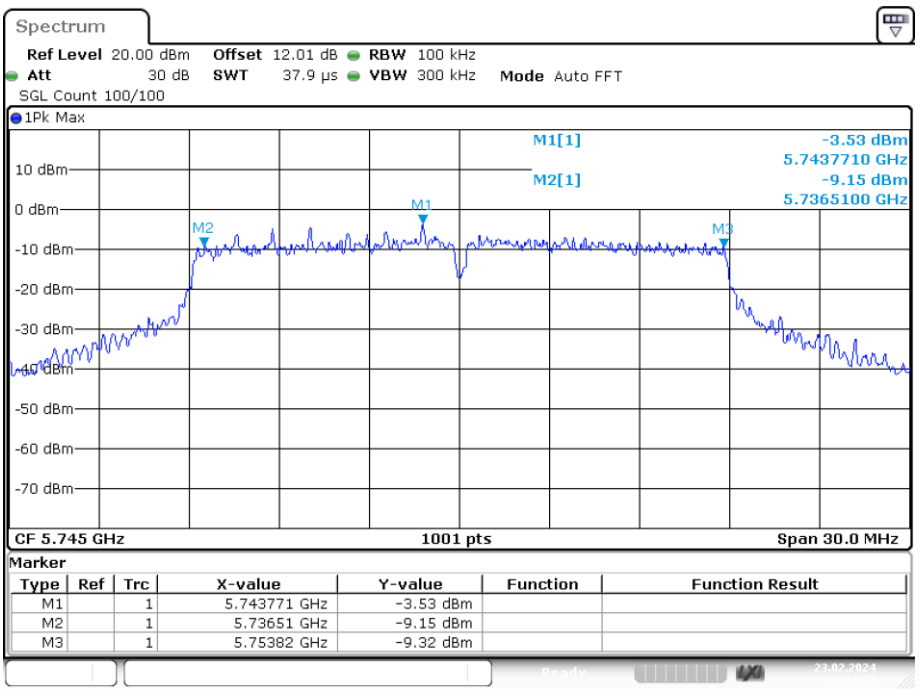
Date: 23.FEB.2024 15:31:23

-6dB Bandwidth NVNT ac80 5775MHz Ant1



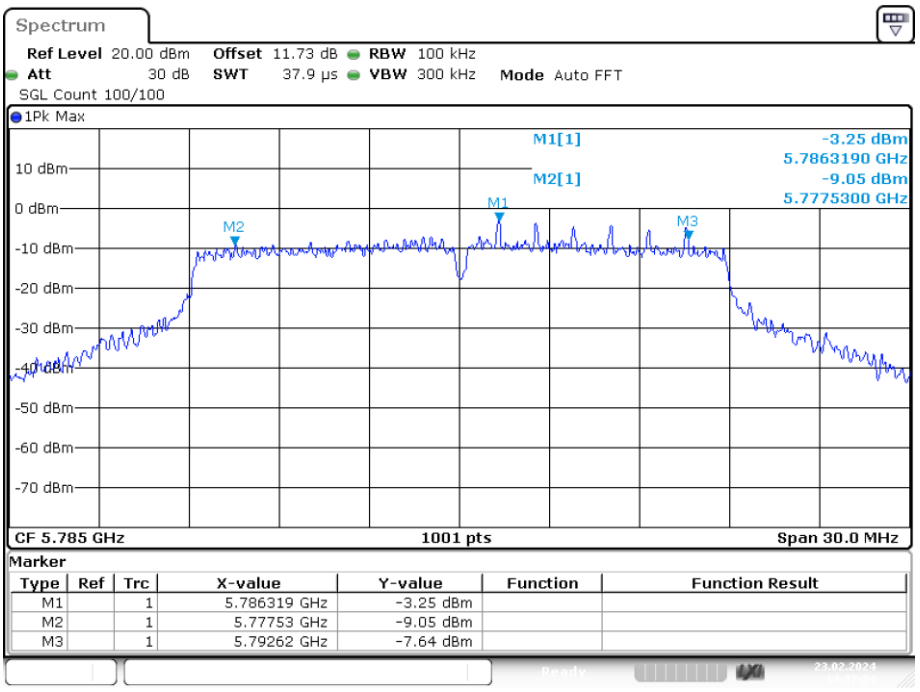
Date: 23.FEB.2024 15:39:16

-6dB Bandwidth NVNT n20 5745MHz Ant1



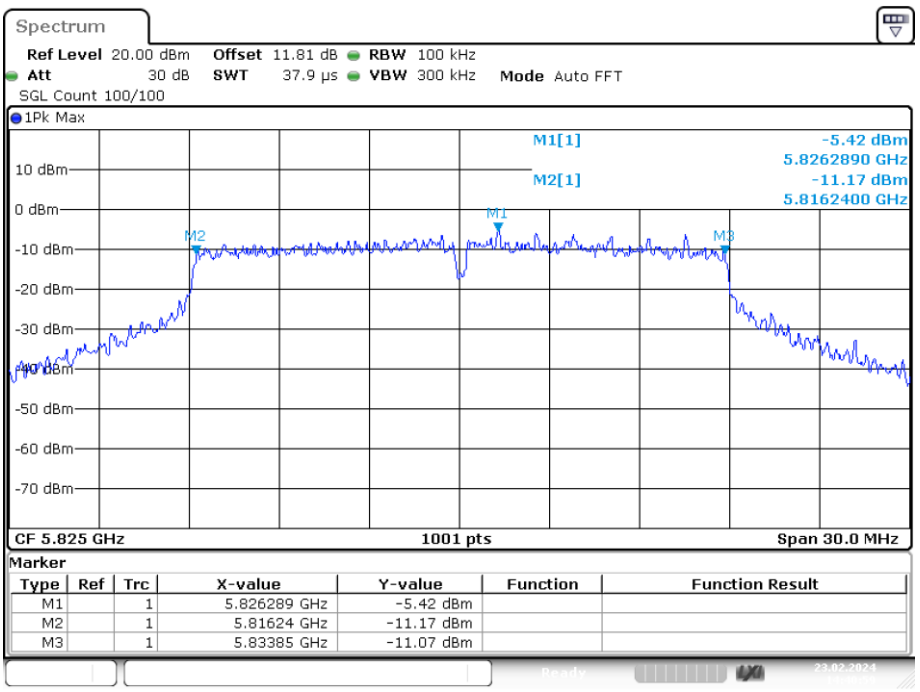
Date: 23.FEB.2024 14:34:31

-6dB Bandwidth NVNT n20 5785MHz Ant1



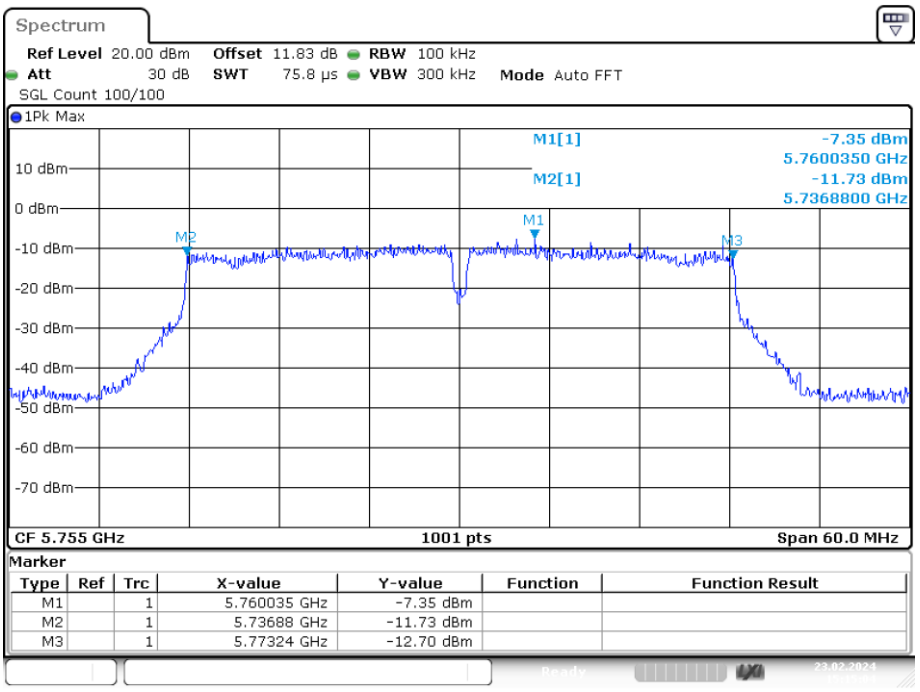
Date: 23.FEB.2024 14:37:24

-6dB Bandwidth NVNT n20 5825MHz Ant1



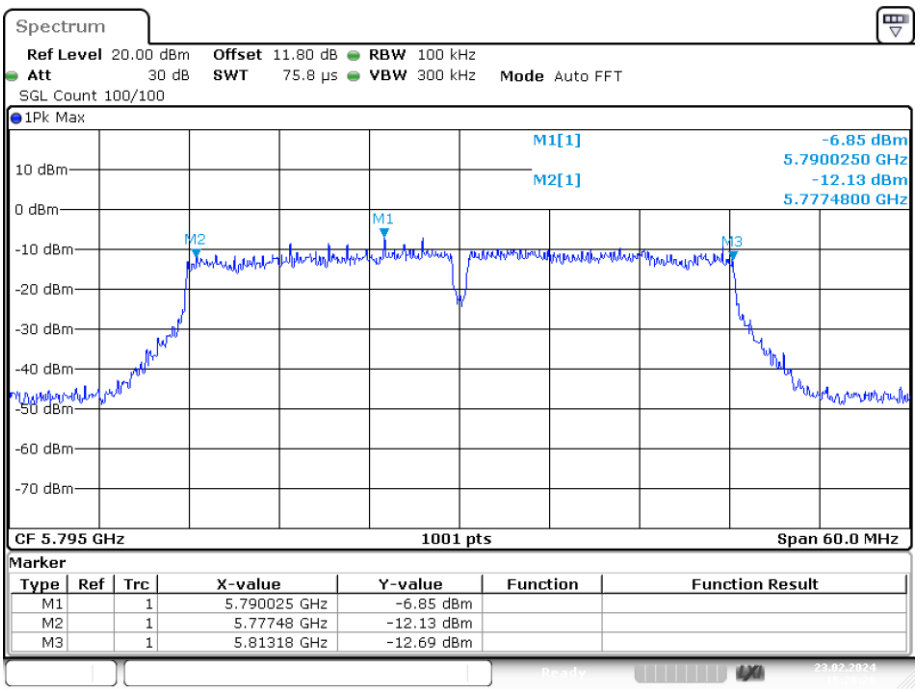
Date: 23.FEB.2024 14:40:58

-6dB Bandwidth NVNT n40 5755MHz Ant1



Date: 23.FEB.2024 15:15:04

-6dB Bandwidth NVNT n40 5795MHz Ant1

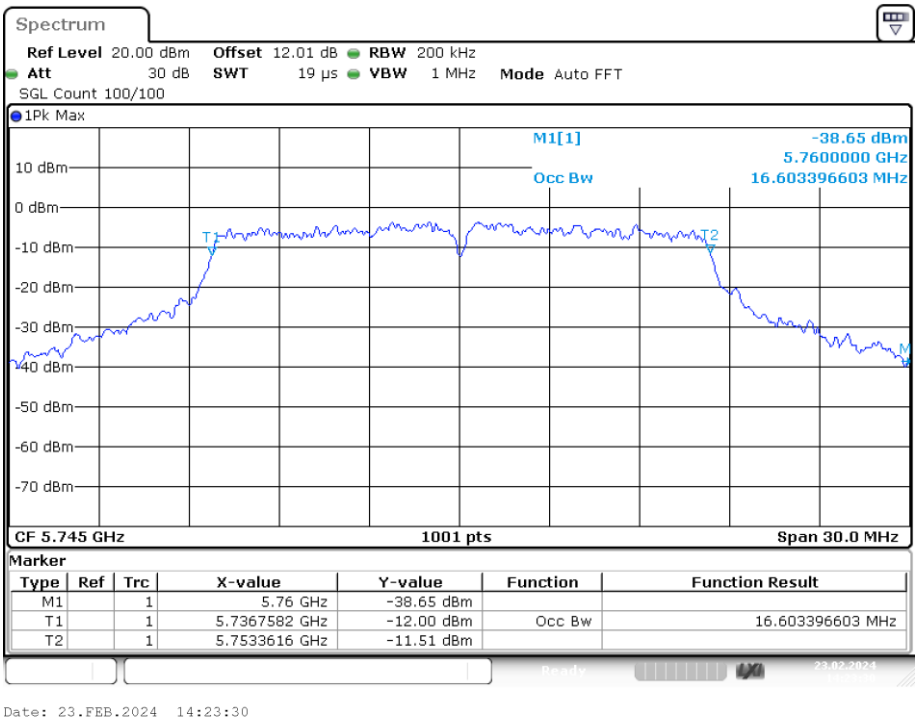


Date: 23.FEB.2024 15:20:19

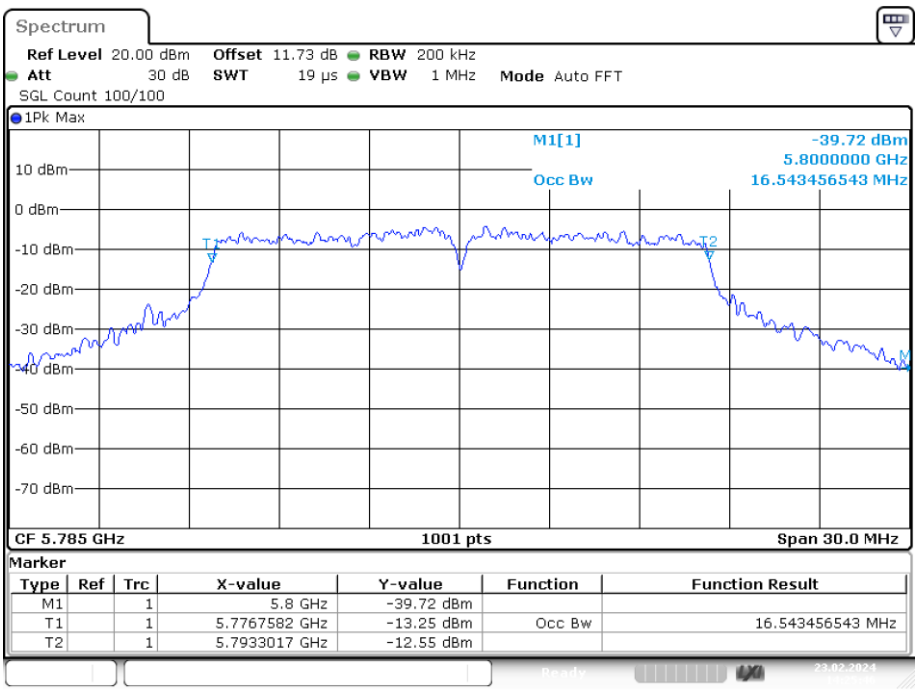
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.603
NVNT	a	5785	Ant1	16.543
NVNT	a	5825	Ant1	16.573
NVNT	ac20	5745	Ant1	17.682
NVNT	ac20	5785	Ant1	17.802
NVNT	ac20	5825	Ant1	17.712
NVNT	ac40	5755	Ant1	36.204
NVNT	ac40	5795	Ant1	36.324
NVNT	ac80	5775	Ant1	75.524
NVNT	n20	5745	Ant1	17.772
NVNT	n20	5785	Ant1	17.742
NVNT	n20	5825	Ant1	17.772
NVNT	n40	5755	Ant1	36.264
NVNT	n40	5795	Ant1	36.204

OBW NVNT a 5745MHz Ant1

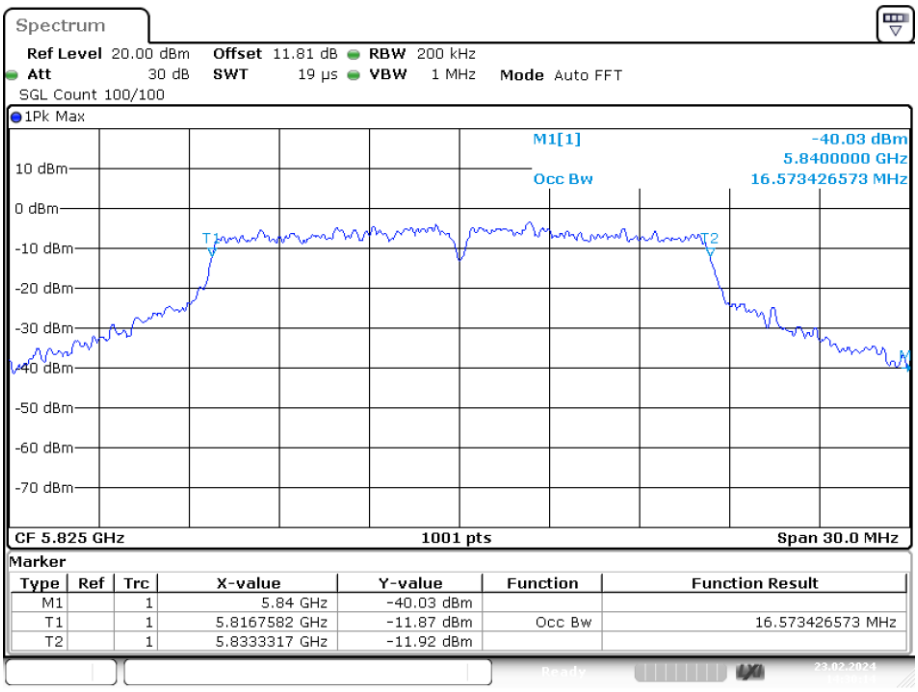


OBW NVNT a 5785MHz Ant1



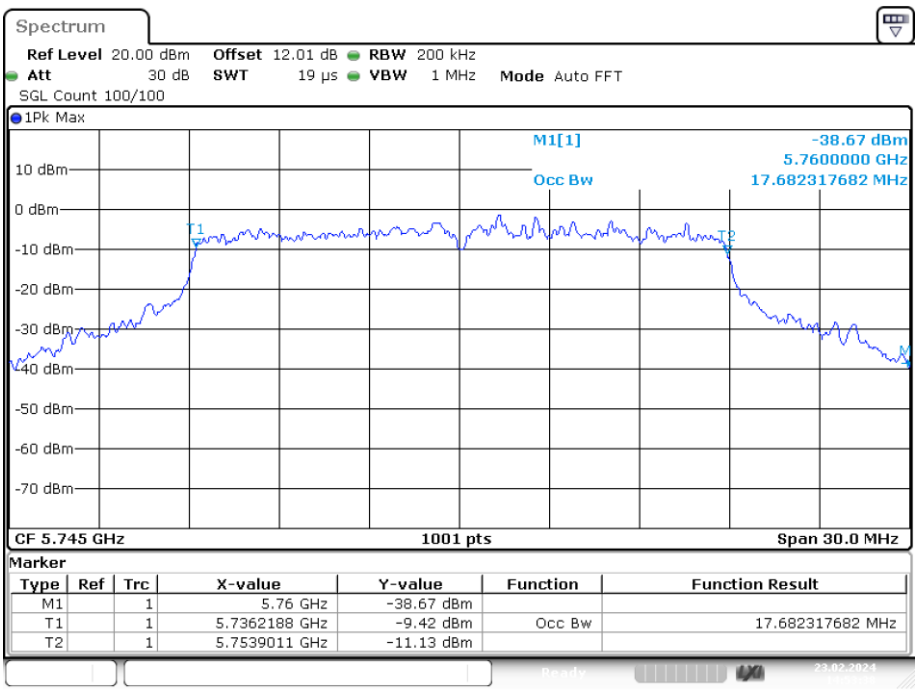
Date: 23.FEB.2024 14:25:45

OBW NVNT a 5825MHz Ant1



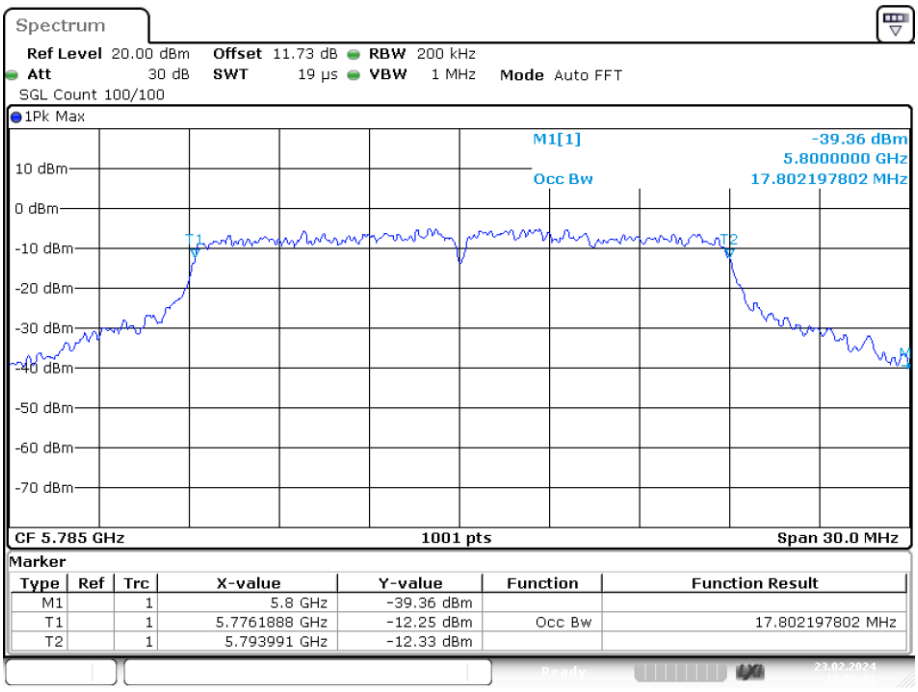
Date: 23.FEB.2024 14:30:13

OBW NVNT ac20 5745MHz Ant1



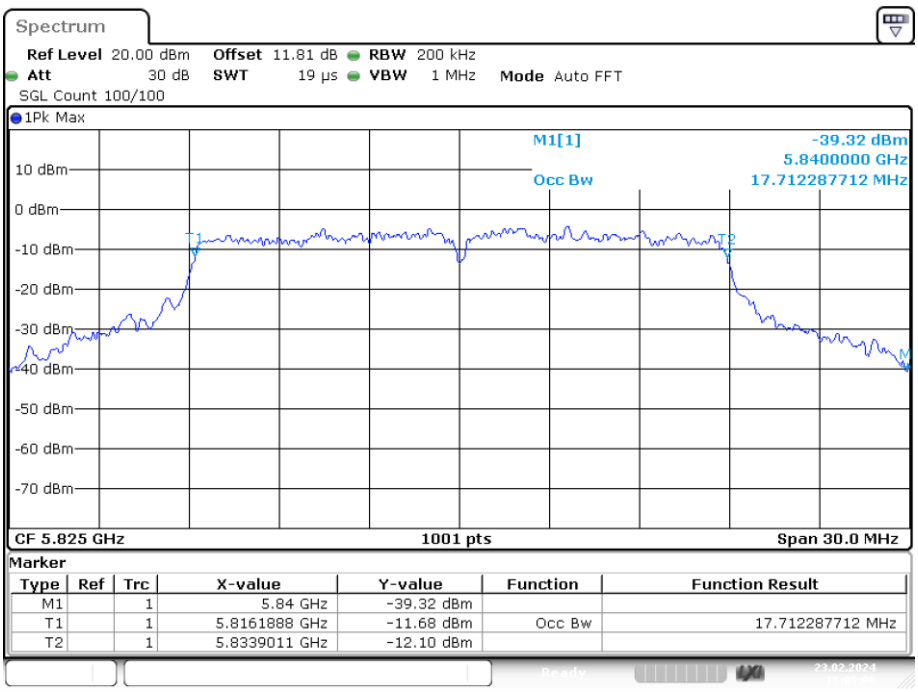
Date: 23.FEB.2024 14:53:38

OBW NVNT ac20 5785MHz Ant1



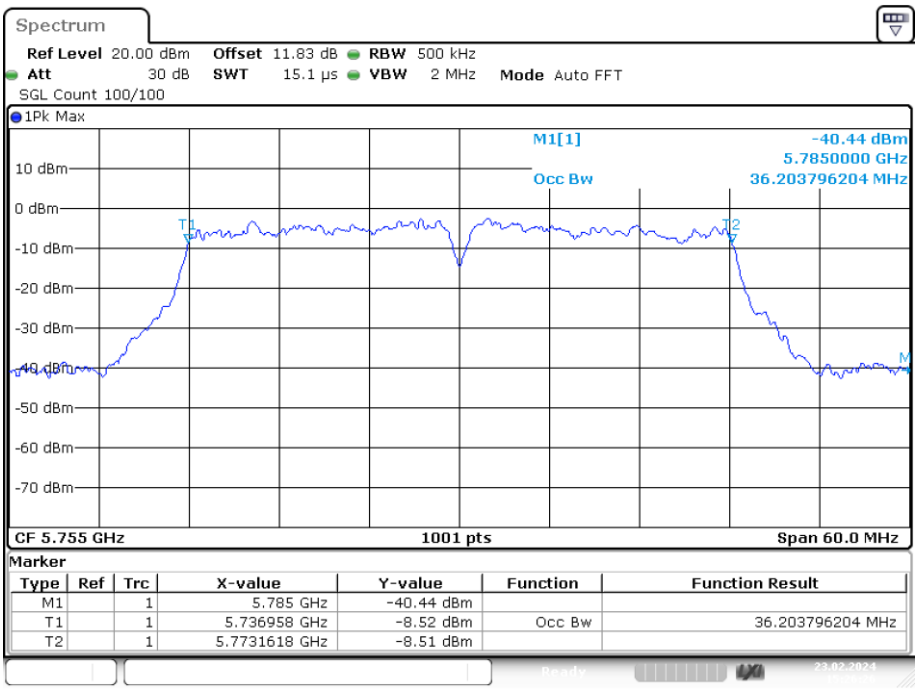
Date: 23.FEB.2024 14:58:01

OBW NVNT ac20 5825MHz Ant1



Date: 23.FEB.2024 15:08:06

OBW NVNT ac40 5755MHz Ant1



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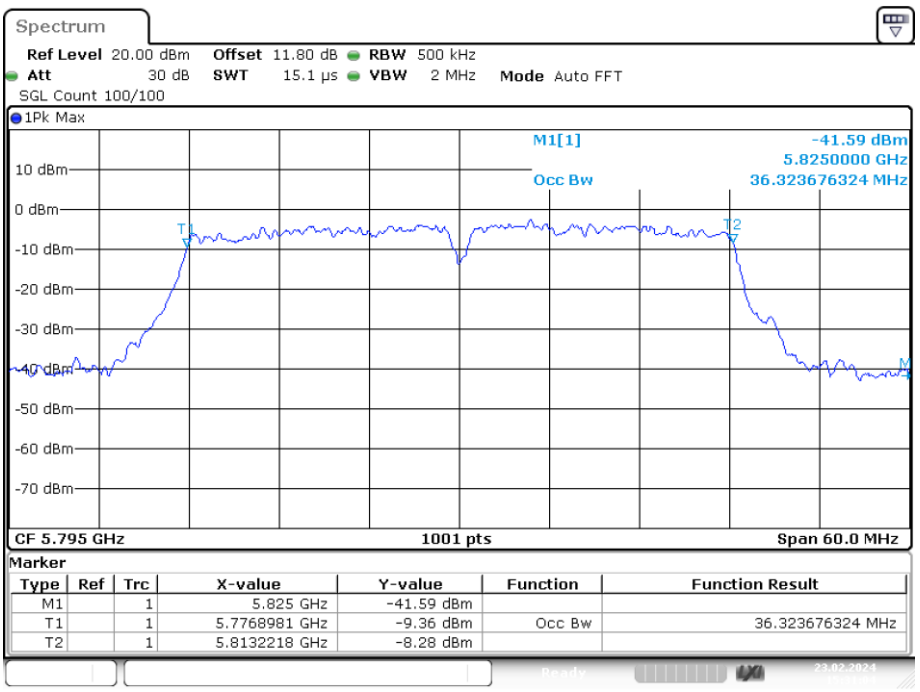
OBW NVNT ac40 5795MHz Ant1



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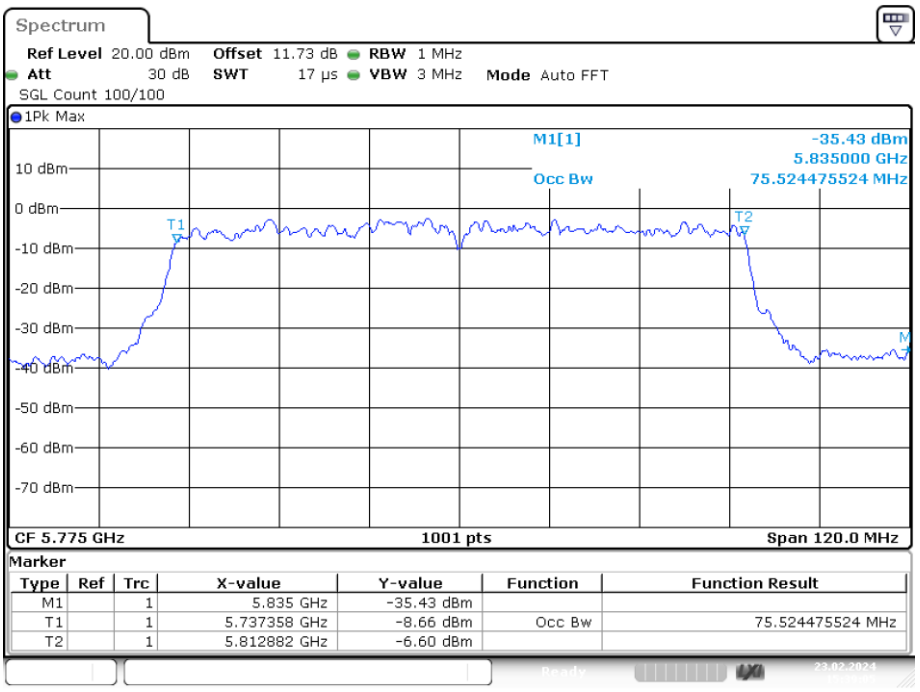
OBW NVNT ac80 5775MHz Ant1



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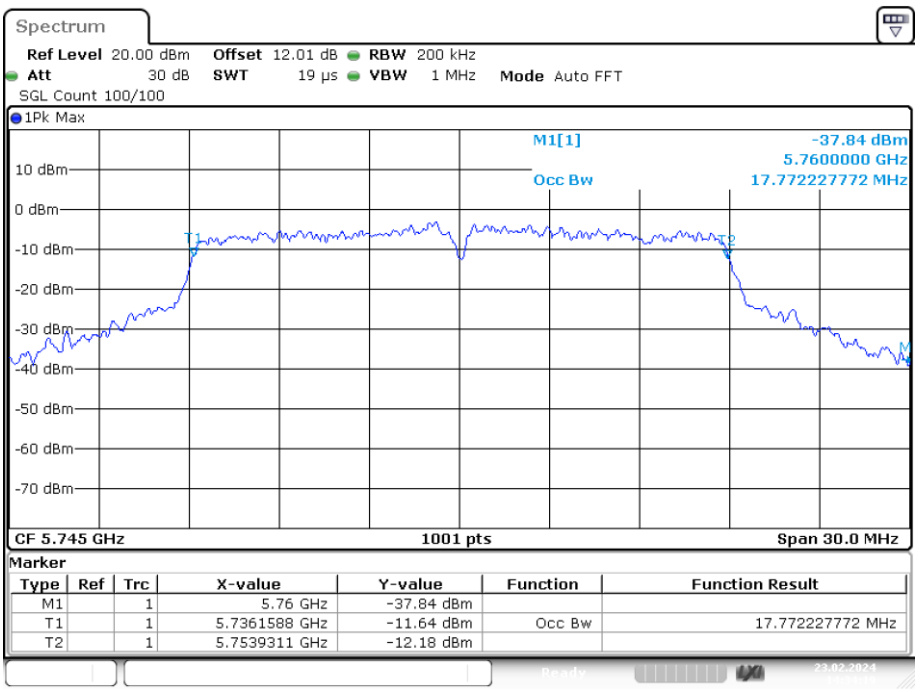

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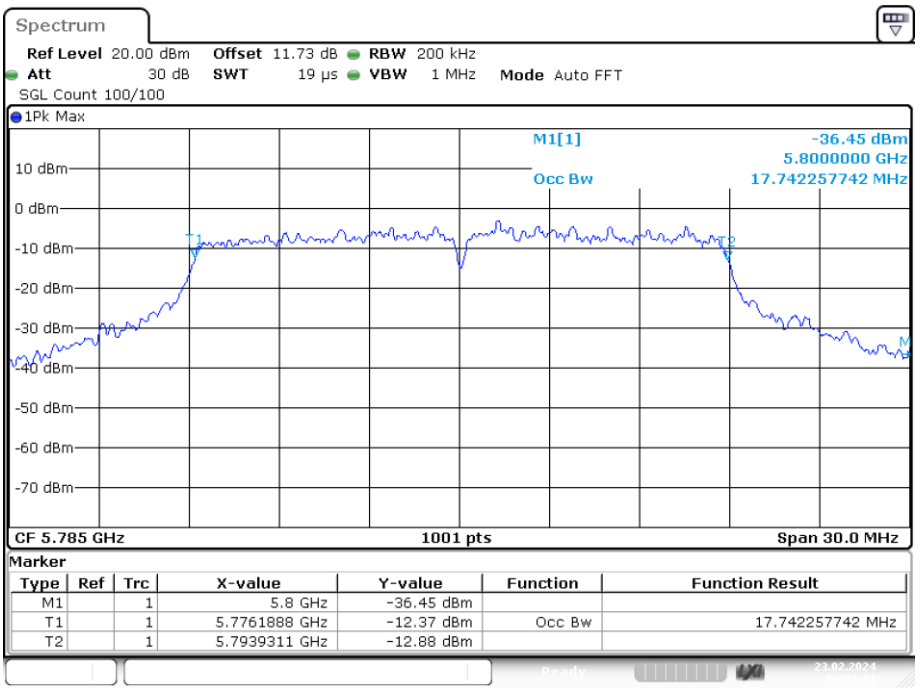

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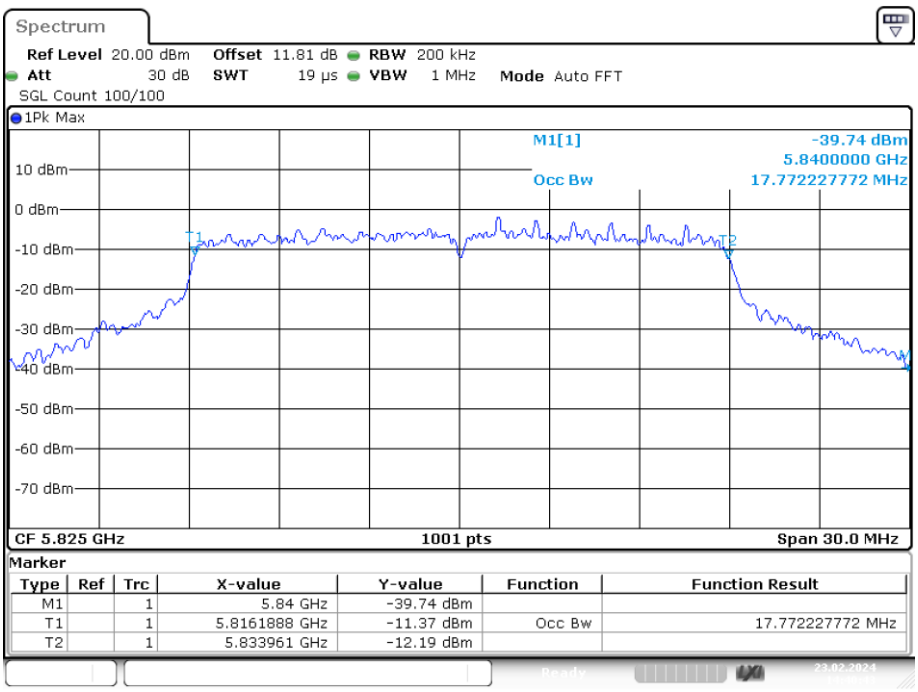
OBW NVNT n20 5825MHz Ant1



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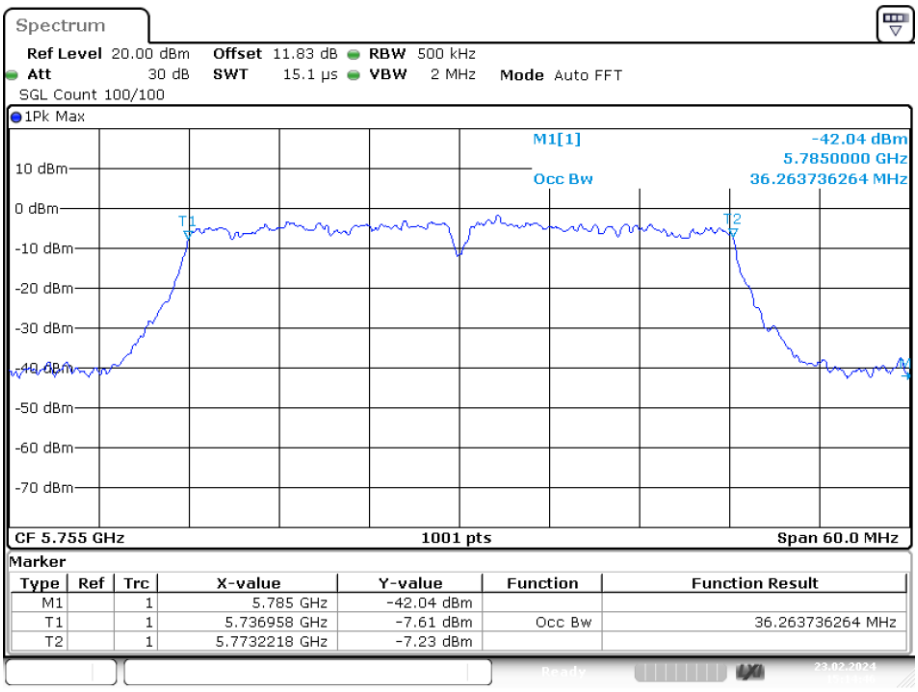
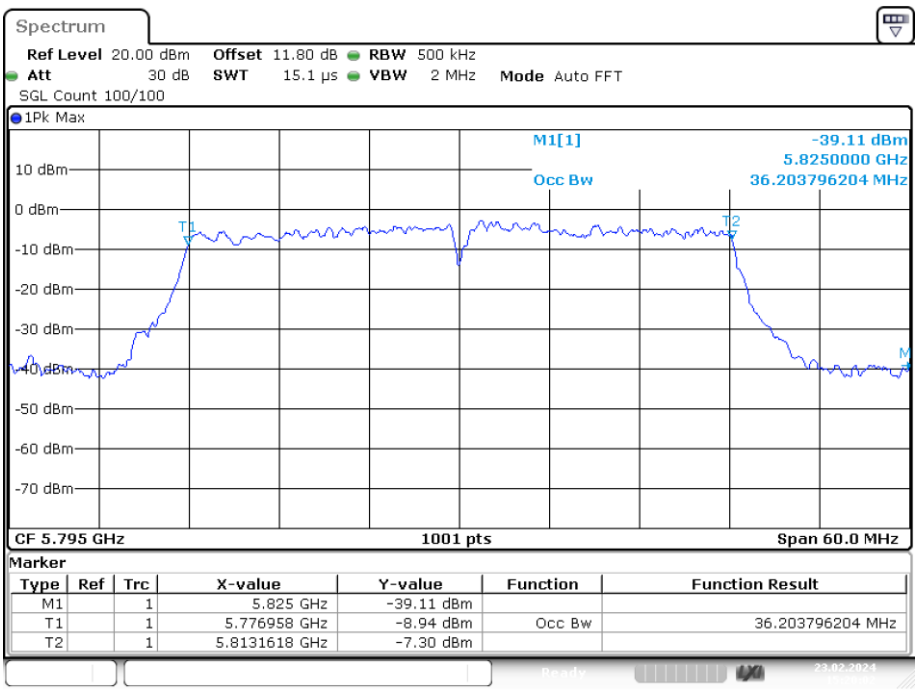
OBW NVNT n40 5755MHz Ant1



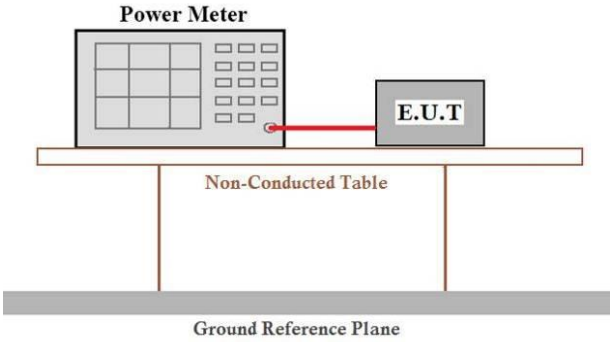
Date: 23.FEB.2024 15:14:47

OBW NVNT n40 5795MHz Ant1



Date: 23.FEB.2024 15:20:01

4.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W.
Test setup:	
Test procedure:	**Measurement using an RF average power meter** (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

Band 1 (5150-5250 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.894	14.894	24	Pass
NVNT	a	5200	Ant1	10.802	14.802	24	Pass
NVNT	a	5240	Ant1	10.584	14.584	24	Pass
NVNT	ac20	5180	Ant1	10.549	14.549	24	Pass
NVNT	ac20	5200	Ant1	10.804	14.804	24	Pass
NVNT	ac20	5240	Ant1	10.886	14.886	24	Pass
NVNT	ac40	5190	Ant1	12.32	16.32	24	Pass
NVNT	ac40	5230	Ant1	12.131	16.131	24	Pass
NVNT	ac80	5210	Ant1	12.141	16.141	24	Pass
NVNT	n20	5180	Ant1	11.098	15.098	24	Pass
NVNT	n20	5200	Ant1	11.081	15.081	24	Pass
NVNT	n20	5240	Ant1	11.195	15.195	24	Pass
NVNT	n40	5190	Ant1	12.879	16.879	24	Pass
NVNT	n40	5230	Ant1	12.842	16.842	24	Pass

Band 2 (5250 -5350 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	11.605	15.605	24	Pass
NVNT	a	5280	Ant1	11.415	15.415	24	Pass
NVNT	a	5320	Ant1	11.361	15.361	24	Pass
NVNT	ac20	5260	Ant1	11.45	15.45	24	Pass
NVNT	ac20	5280	Ant1	11.495	15.495	24	Pass
NVNT	ac20	5320	Ant1	11.725	15.725	24	Pass
NVNT	ac40	5270	Ant1	12.905	16.905	24	Pass
NVNT	ac40	5310	Ant1	13.043	17.043	24	Pass
NVNT	ac80	5290	Ant1	12.5	16.5	24	Pass
NVNT	n20	5260	Ant1	11.732	15.732	24	Pass
NVNT	n20	5280	Ant1	11.739	15.739	24	Pass
NVNT	n20	5320	Ant1	11.603	15.603	24	Pass
NVNT	n40	5270	Ant1	13.104	17.104	24	Pass
NVNT	n40	5310	Ant1	13.223	17.223	24	Pass

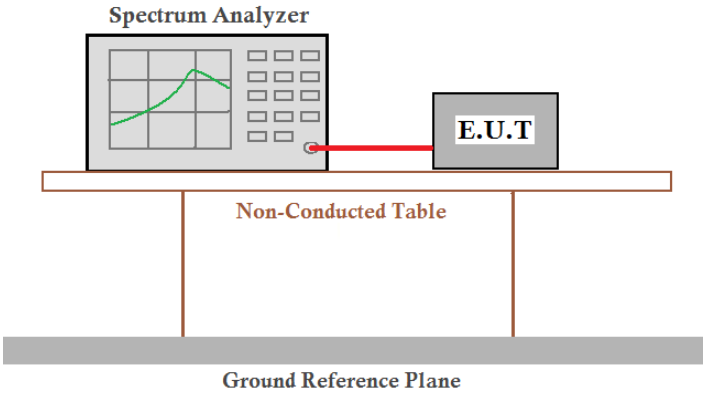
Band 3 (5500 -5700 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	11.31	15.31	24	Pass
NVNT	a	5580	Ant1	10.375	14.375	24	Pass
NVNT	a	5700	Ant1	10.428	14.428	24	Pass
NVNT	ac20	5500	Ant1	11.077	15.077	24	Pass
NVNT	ac20	5580	Ant1	10.257	14.257	24	Pass
NVNT	ac20	5700	Ant1	10.488	14.488	24	Pass
NVNT	ac40	5510	Ant1	12.24	16.24	24	Pass
NVNT	ac40	5670	Ant1	11.904	15.904	24	Pass
NVNT	ac80	5530	Ant1	11.06	15.06	24	Pass
NVNT	n20	5500	Ant1	10.883	14.883	24	Pass
NVNT	n20	5580	Ant1	10.222	14.222	24	Pass
NVNT	n20	5700	Ant1	10.369	14.369	24	Pass
NVNT	n40	5510	Ant1	12.585	16.585	24	Pass
NVNT	n40	5670	Ant1	11.615	15.615	24	Pass

Band 4 (5725 – 5850 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	11.129	30	Pass
NVNT	a	5785	Ant1	10.01	30	Pass
NVNT	a	5825	Ant1	10.624	30	Pass
NVNT	ac20	5745	Ant1	11.223	30	Pass
NVNT	ac20	5785	Ant1	9.637	30	Pass
NVNT	ac20	5825	Ant1	10.927	30	Pass
NVNT	ac40	5755	Ant1	10.972	30	Pass
NVNT	ac40	5795	Ant1	11.476	30	Pass
NVNT	ac80	5775	Ant1	10.741	30	Pass
NVNT	n20	5745	Ant1	11.022	30	Pass
NVNT	n20	5785	Ant1	10.081	30	Pass
NVNT	n20	5825	Ant1	10.487	30	Pass
NVNT	n40	5755	Ant1	12.1	30	Pass
NVNT	n40	5795	Ant1	11.169	30	Pass

4.5 Power Spectral Density

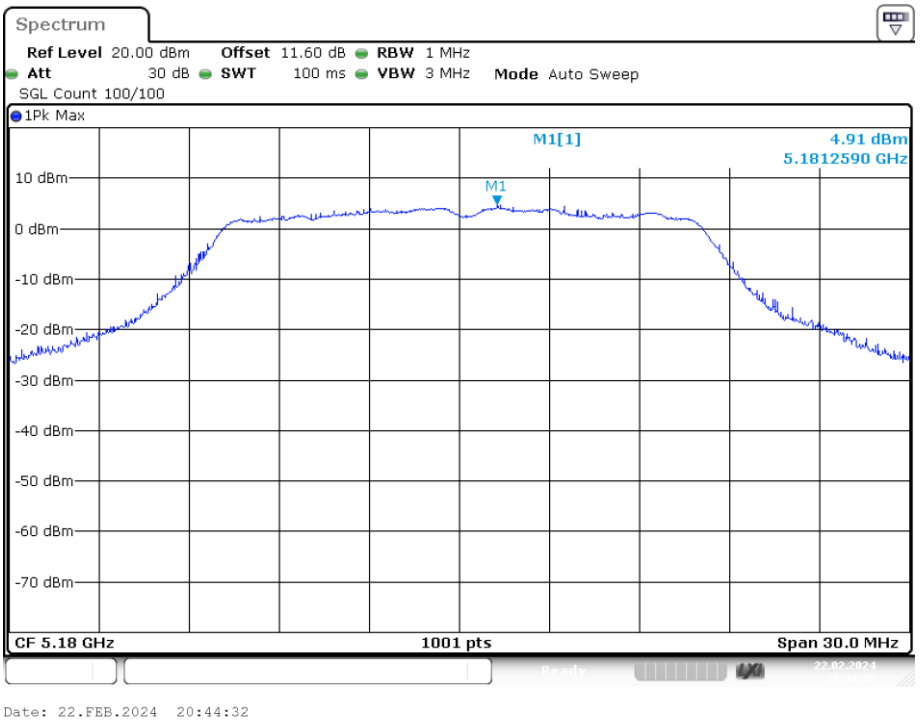
Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	≤11.00dBm/MHz for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz ≤30.00dBm/500KHz for 5725MHz-5850MHz
Test setup:	
Test procedure:	1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E)2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power…”. 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: a) If Method SA-2 or SA-2 Alternative was used, add 10 log(1/x), where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E)2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

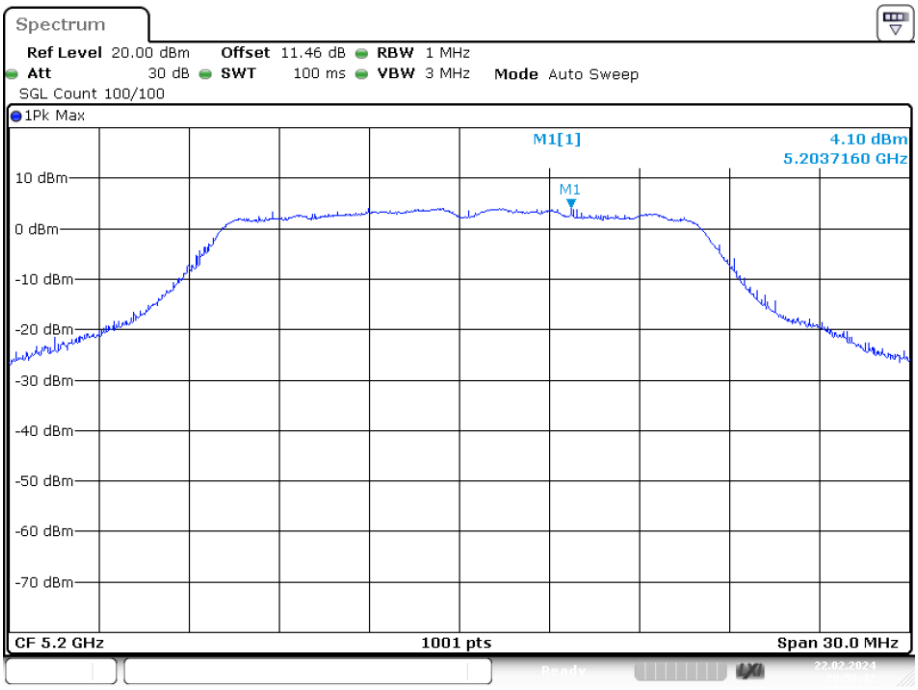
Band 1 (5150 - 5250 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	4.911	11	Pass
NVNT	a	5200	Ant1	4.101	11	Pass
NVNT	a	5240	Ant1	4.027	11	Pass
NVNT	ac20	5180	Ant1	4.264	11	Pass
NVNT	ac20	5200	Ant1	4.838	11	Pass
NVNT	ac20	5240	Ant1	4.418	11	Pass
NVNT	ac40	5190	Ant1	2.235	11	Pass
NVNT	ac40	5230	Ant1	2.348	11	Pass
NVNT	ac80	5210	Ant1	-1.878	11	Pass
NVNT	n20	5180	Ant1	4.851	11	Pass
NVNT	n20	5200	Ant1	4.629	11	Pass
NVNT	n20	5240	Ant1	4.907	11	Pass
NVNT	n40	5190	Ant1	2.133	11	Pass
NVNT	n40	5230	Ant1	2.136	11	Pass

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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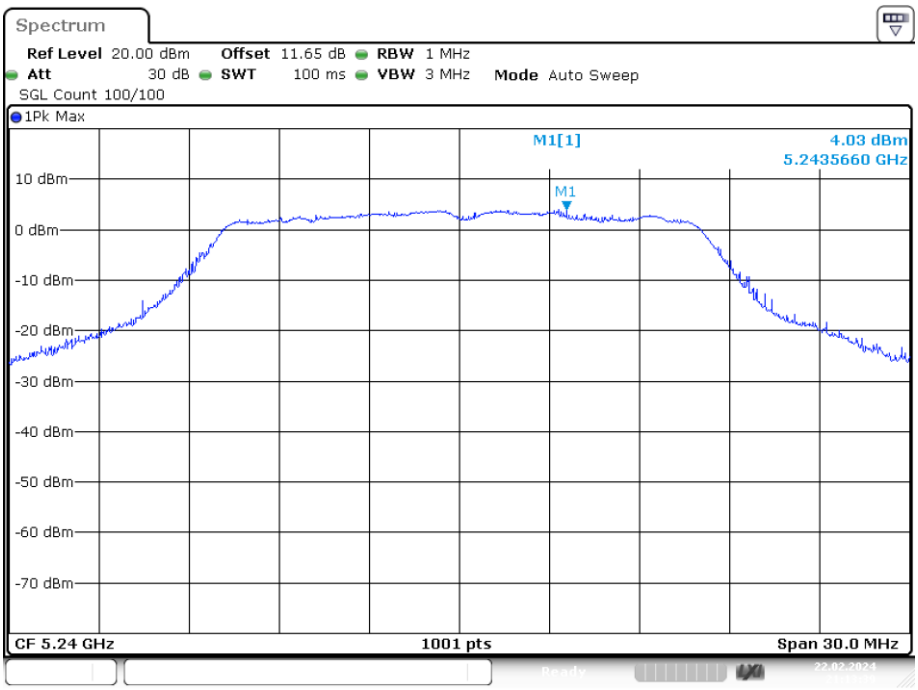
PSD NVNT a 5240MHz Ant1



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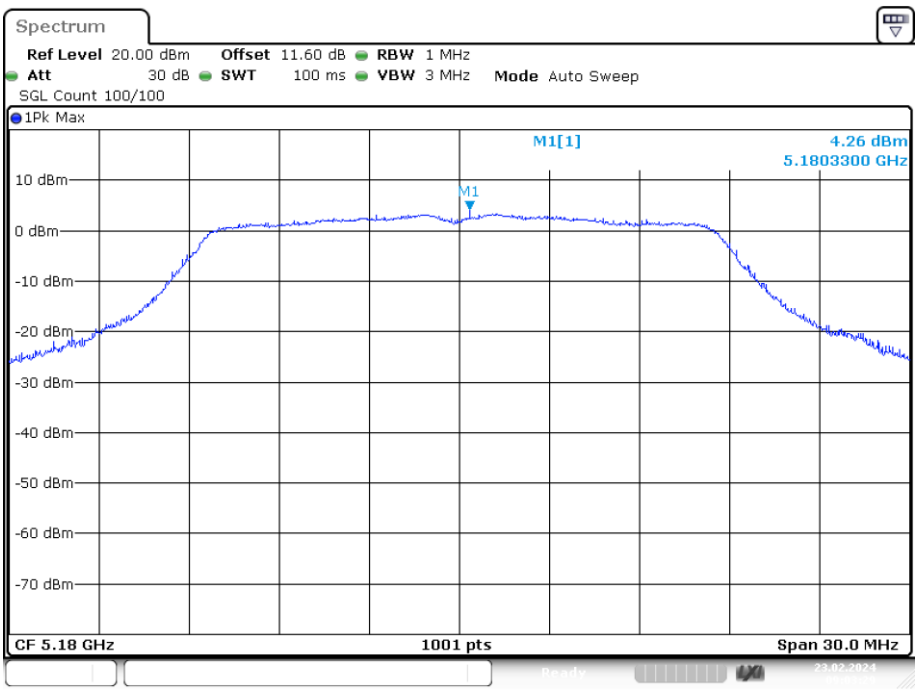
PSD NVNT ac20 5180MHz Ant1



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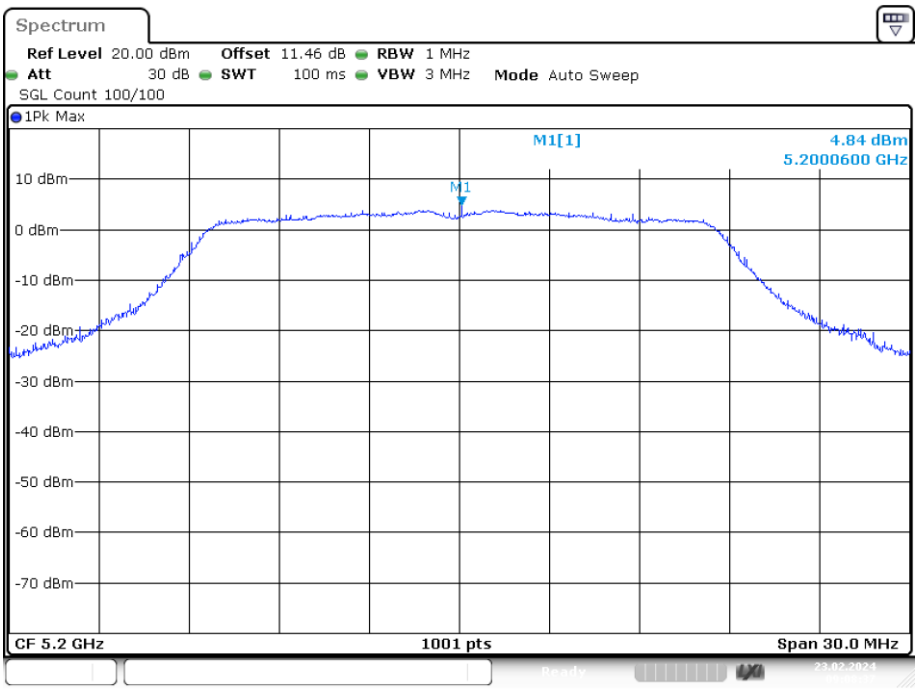
PSD NVNT ac20 5200MHz Ant1



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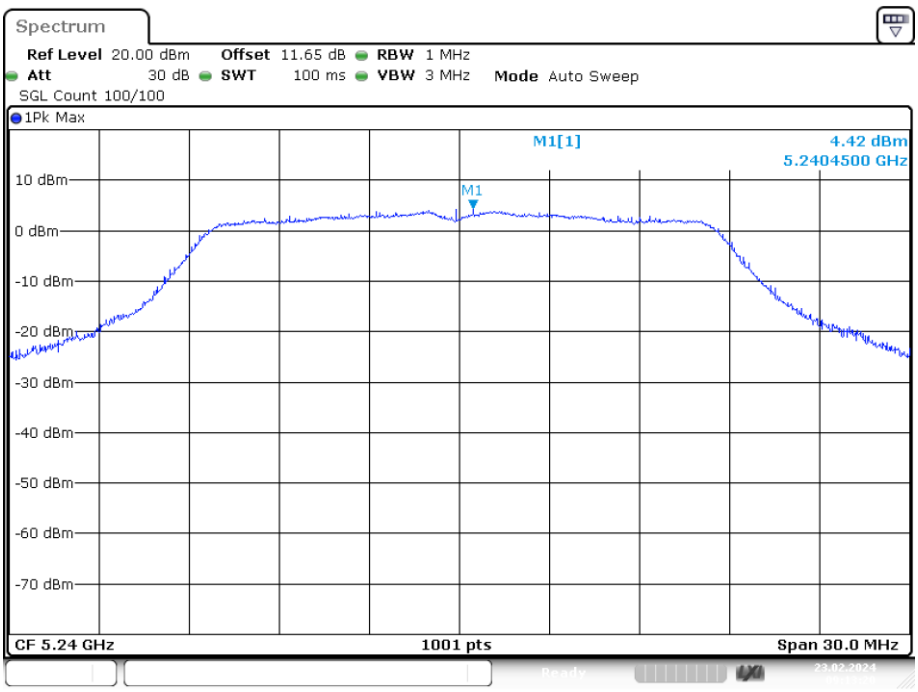
PSD NVNT ac20 5240MHz Ant1



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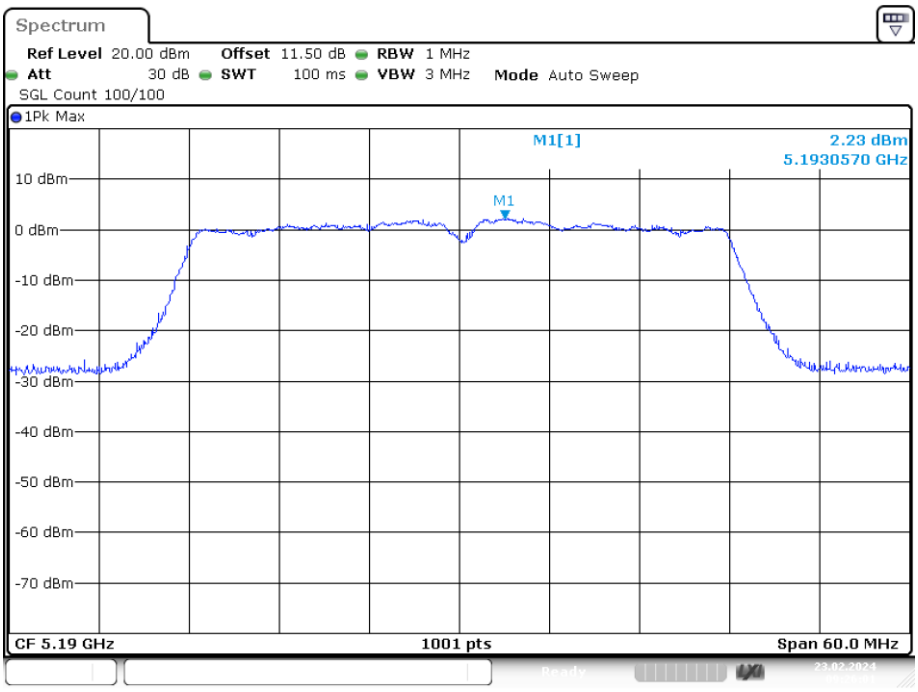
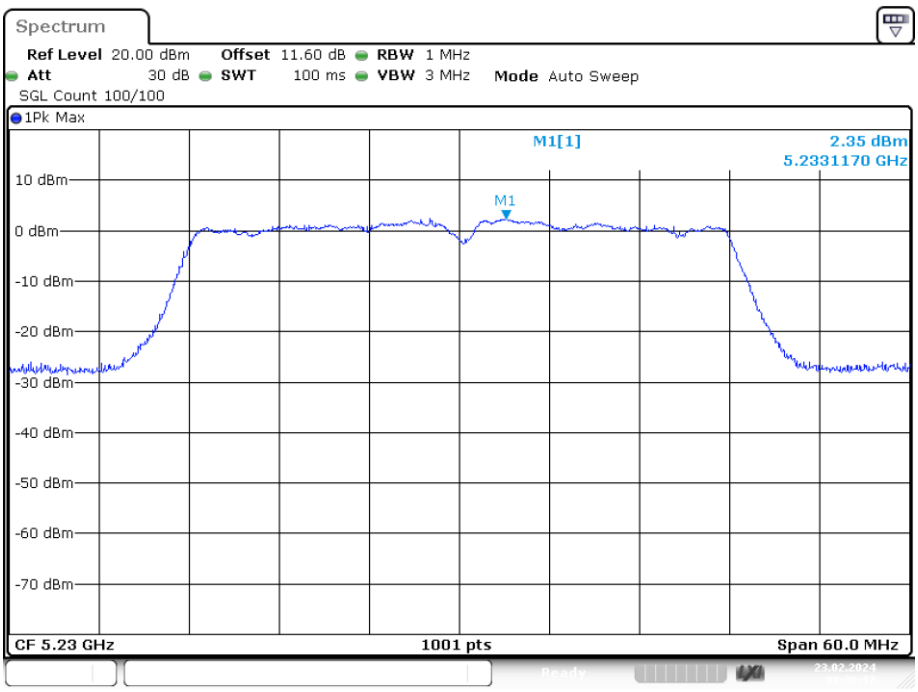
PSD NVNT ac40 5190MHz Ant1



Date: 23.FEB.2024 09:26:00

PSD NVNT ac40 5230MHz Ant1



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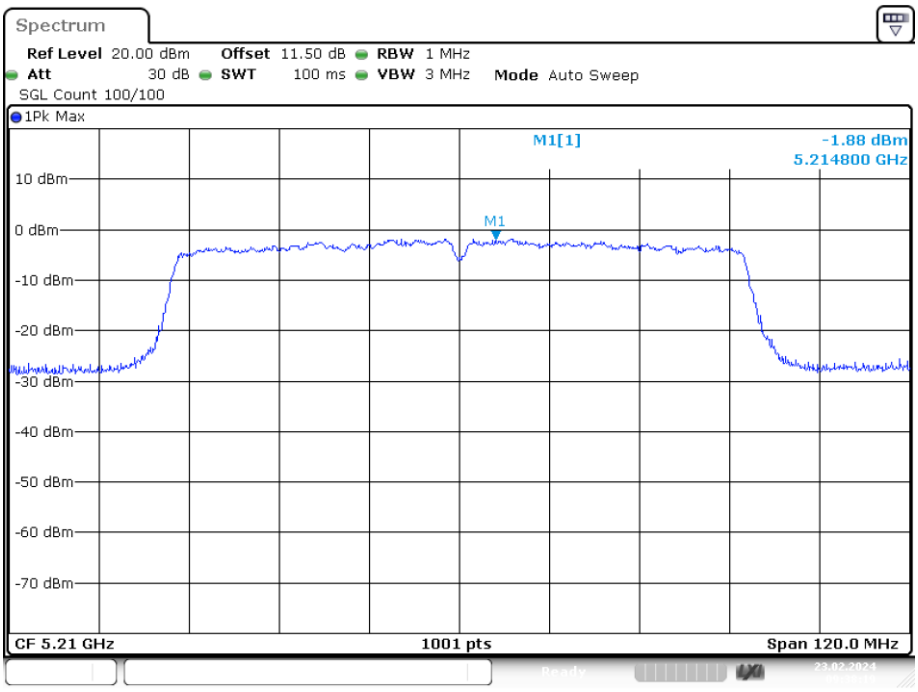
PSD NVNT ac80 5210MHz Ant1



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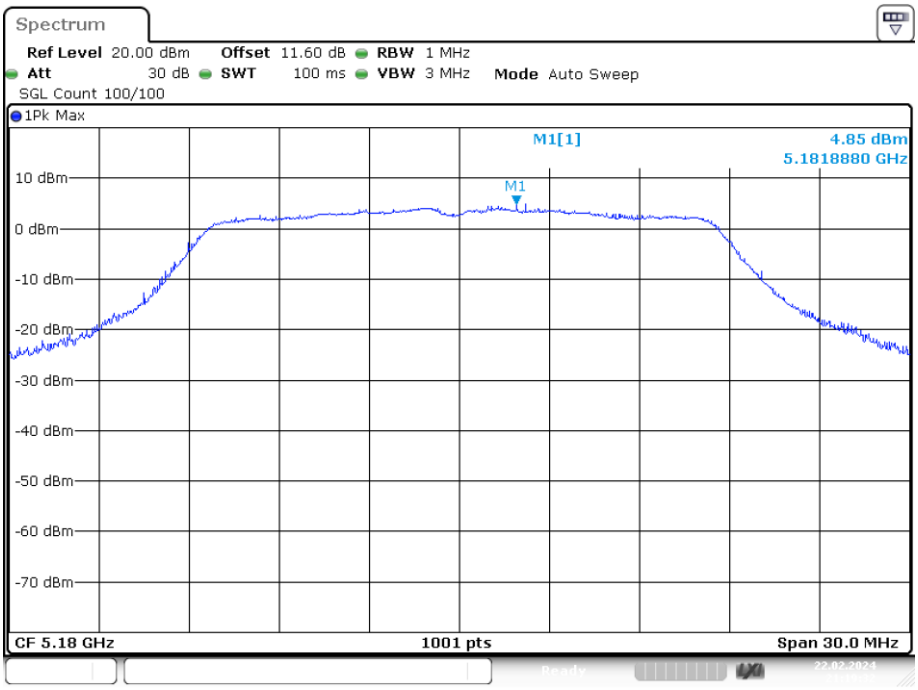
PSD NVNT n20 5180MHz Ant1



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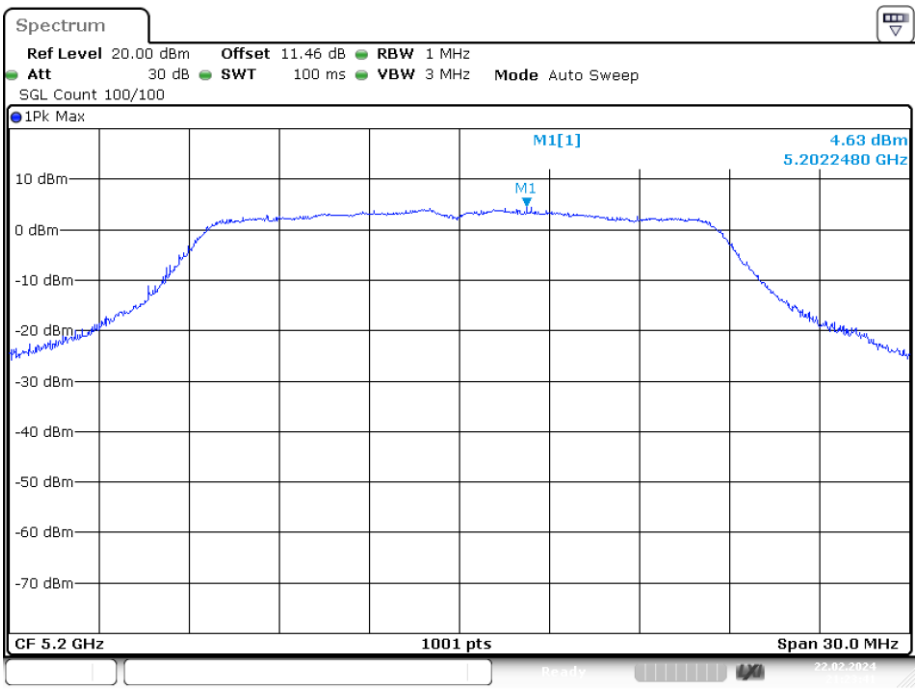
PSD NVNT n20 5200MHz Ant1



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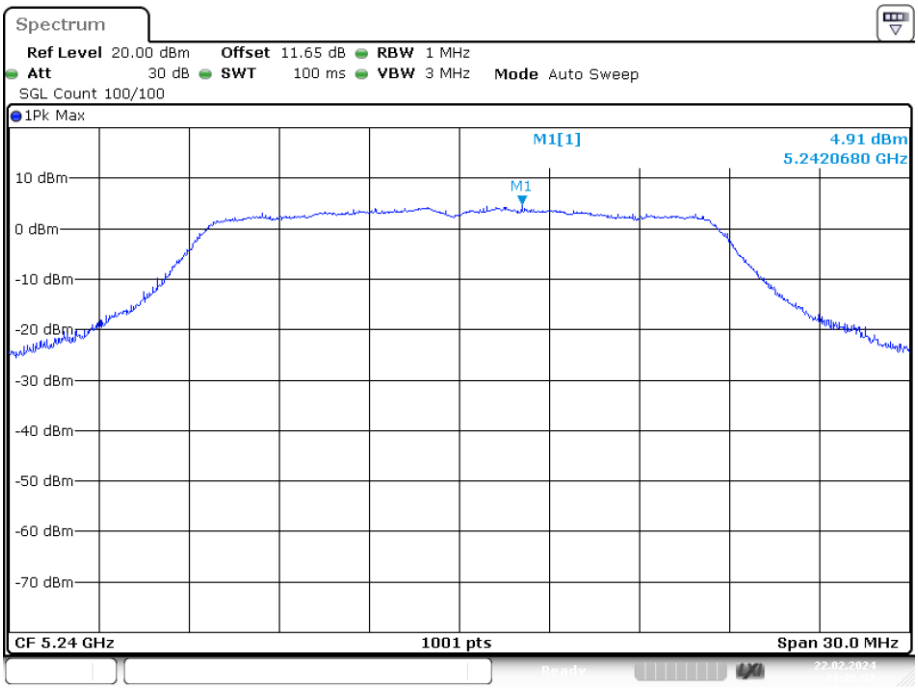
PSD NVNT n20 5240MHz Ant1



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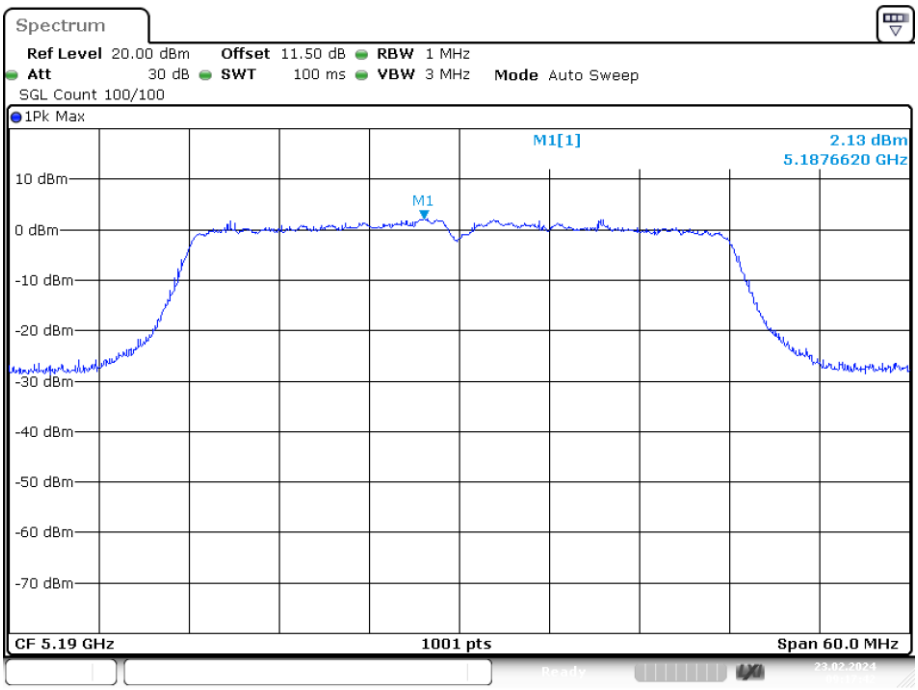
PSD NVNT n40 5190MHz Ant1



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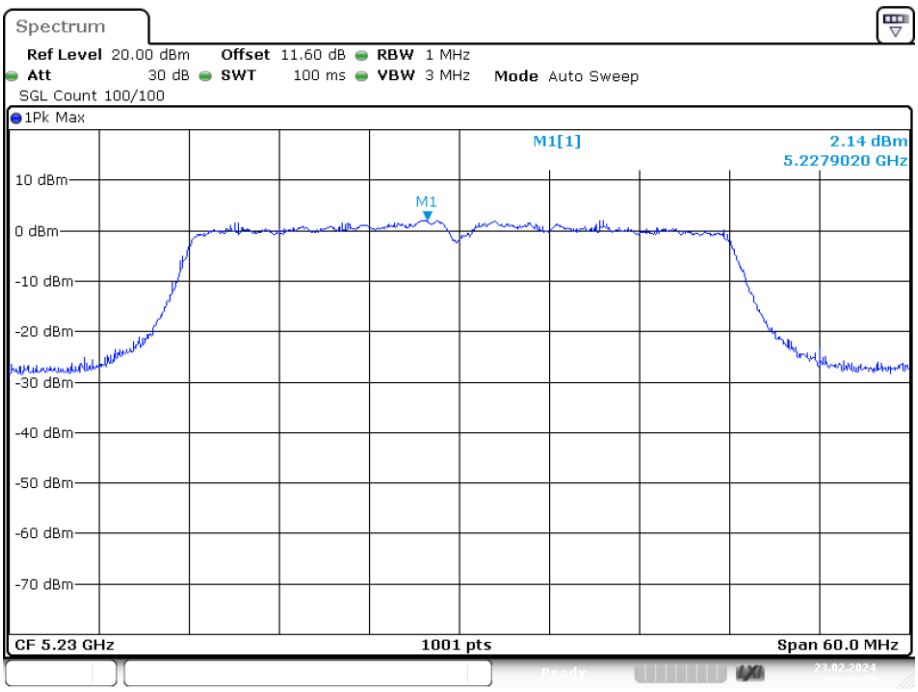
PSD NVNT n40 5230MHz Ant1

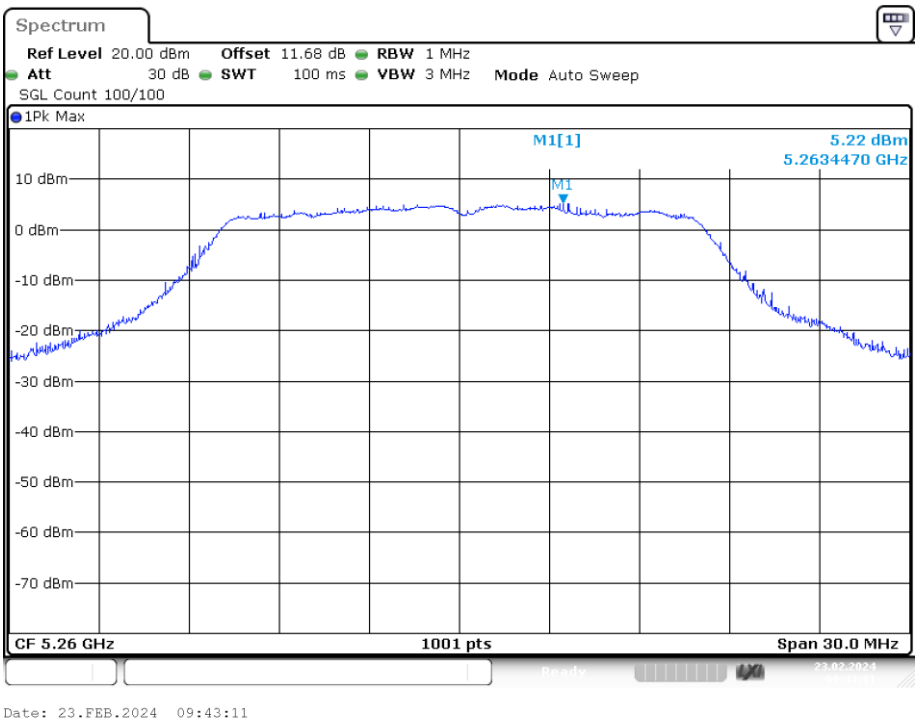


Date: 23.FEB.2024 09:21:37

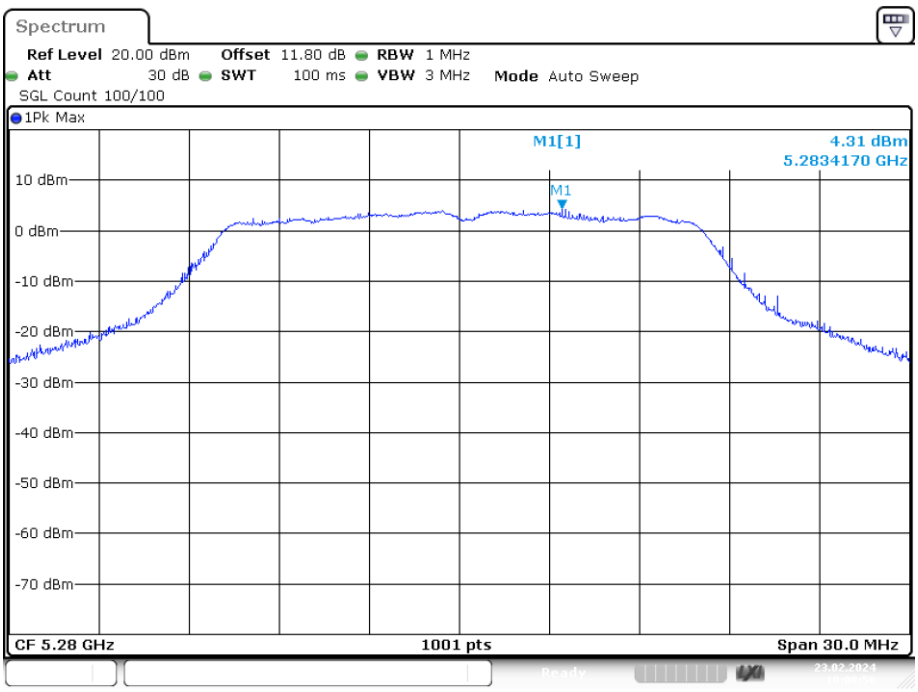
Band 2 (5250 -5350 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	5.218	11	Pass
NVNT	a	5280	Ant1	4.314	11	Pass
NVNT	a	5320	Ant1	5.184	11	Pass
NVNT	ac20	5260	Ant1	4.477	11	Pass
NVNT	ac20	5280	Ant1	5.434	11	Pass
NVNT	ac20	5320	Ant1	5.793	11	Pass
NVNT	ac40	5270	Ant1	2.783	11	Pass
NVNT	ac40	5310	Ant1	2.773	11	Pass
NVNT	ac80	5290	Ant1	-0.395	11	Pass
NVNT	n20	5260	Ant1	5.297	11	Pass
NVNT	n20	5280	Ant1	4.714	11	Pass
NVNT	n20	5320	Ant1	4.792	11	Pass
NVNT	n40	5270	Ant1	2.872	11	Pass
NVNT	n40	5310	Ant1	3.51	11	Pass

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1



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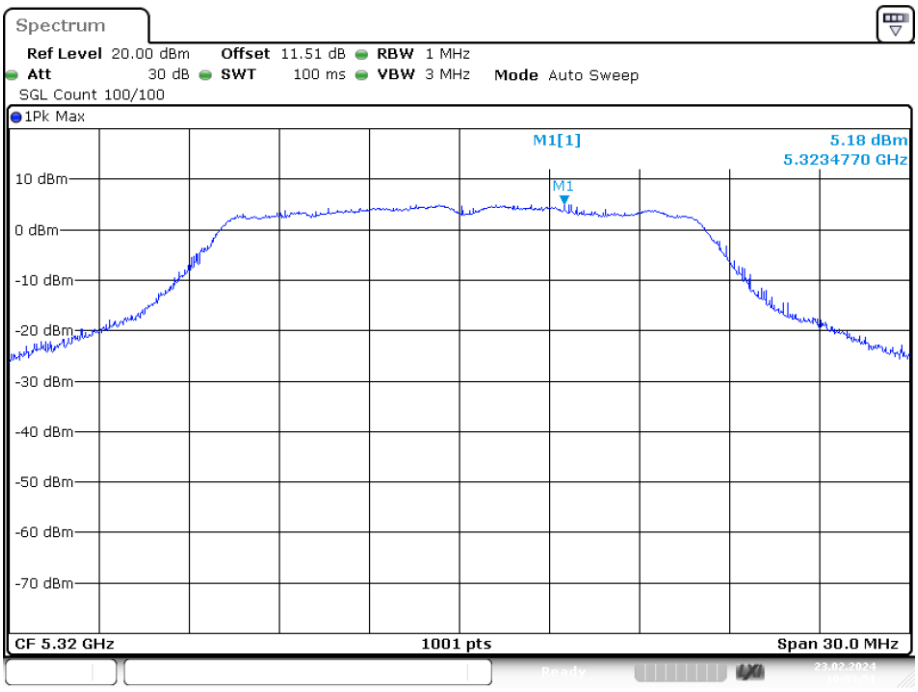
PSD NVNT a 5320MHz Ant1



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