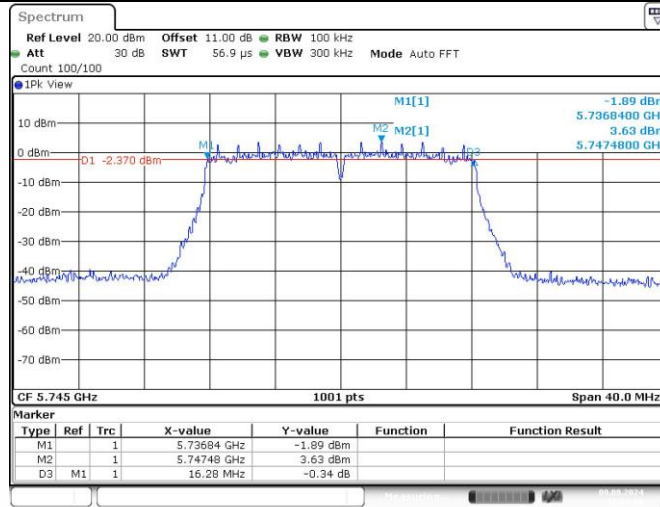


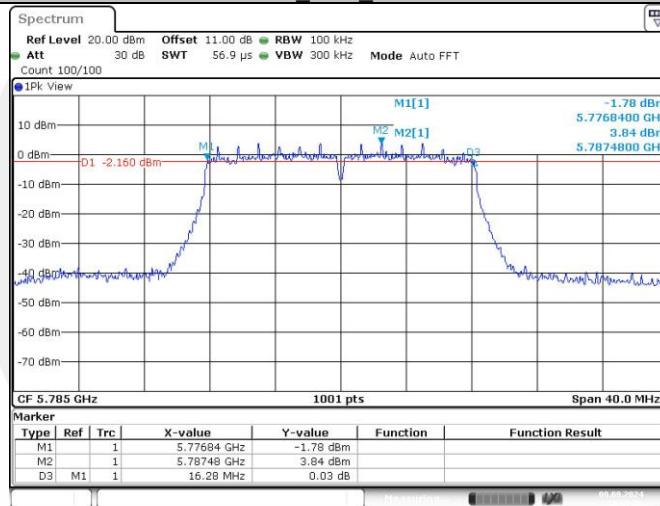
Min emission bandwidth (6db)

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.28	5736.84	5753.12	0.5	PASS
		5785	16.28	5776.84	5793.12	0.5	PASS
		5825	16.28	5816.84	5833.12	0.5	PASS
11N20SISO	Ant1	5745	17.16	5736.24	5753.40	0.5	PASS
		5785	17.32	5776.44	5793.76	0.5	PASS
		5825	16.92	5816.48	5833.40	0.5	PASS
11N40SISO	Ant1	5755	35.44	5737.24	5772.68	0.5	PASS
		5795	35.92	5777.24	5813.16	0.5	PASS
11AC20SISO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
		5785	16.92	5776.48	5793.40	0.5	PASS
		5825	16.84	5816.56	5833.40	0.5	PASS
11AC40SISO	Ant1	5755	36.08	5736.84	5772.92	0.5	PASS
		5795	36.08	5776.84	5812.92	0.5	PASS
11AC80SISO	Ant1	5775	75.52	5737.24	5812.76	0.5	PASS
11AX20SISO	Ant1	5745	18.36	5735.60	5753.96	0.5	PASS
		5785	18.32	5775.92	5794.24	0.5	PASS
		5825	18.28	5815.96	5834.24	0.5	PASS
11AX40SISO	Ant1	5755	37.60	5736.20	5773.80	0.5	PASS
		5795	37.60	5776.20	5813.80	0.5	PASS
11AX80SISO	Ant1	5775	76.64	5736.44	5813.08	0.5	PASS



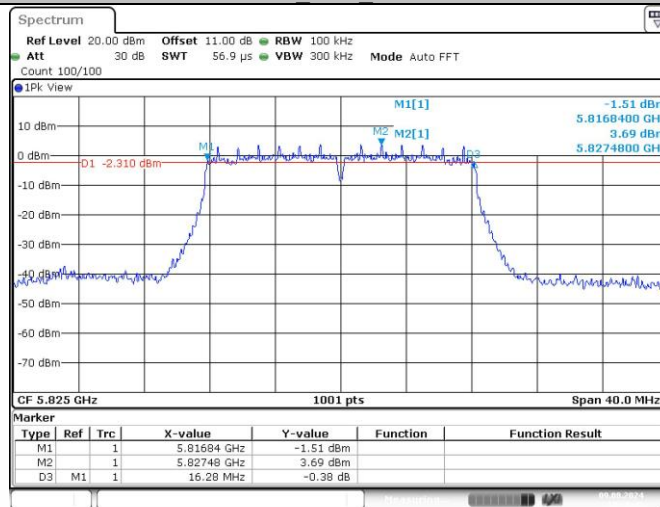
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11A Ant1 5745



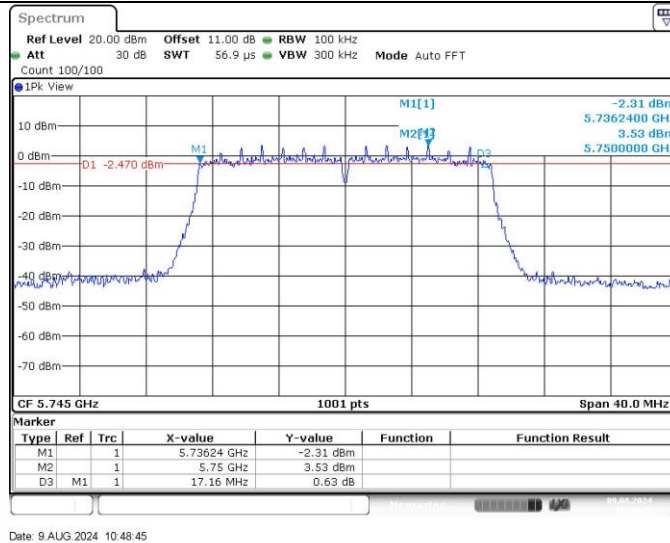
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11A Ant1 5785

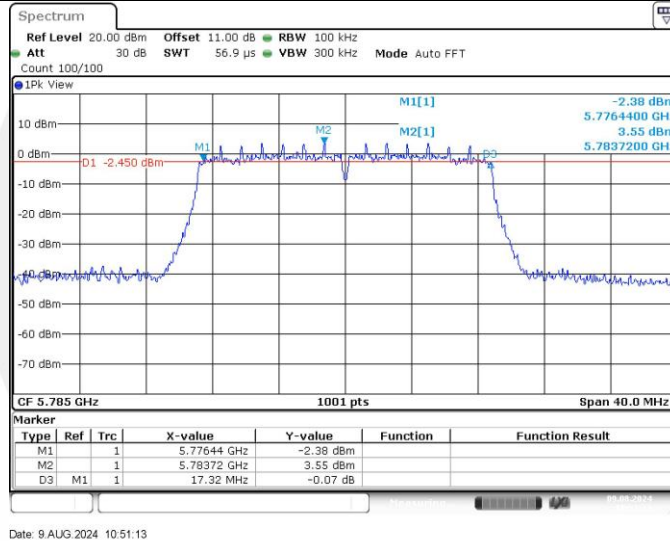


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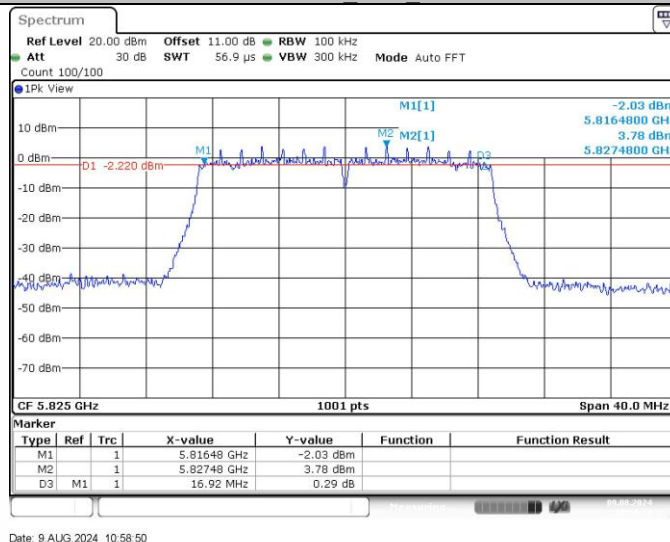
11A Ant1 5825



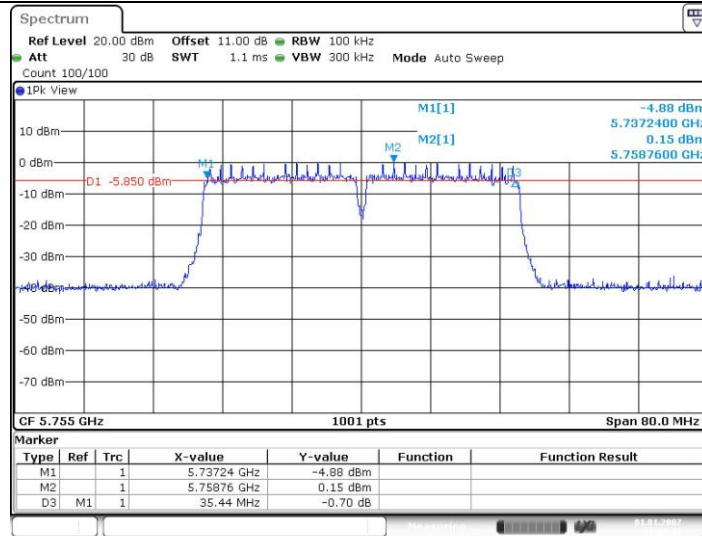
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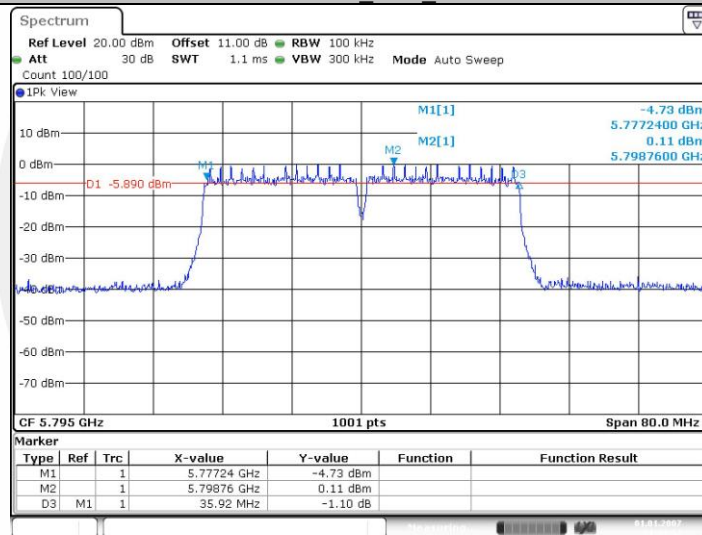
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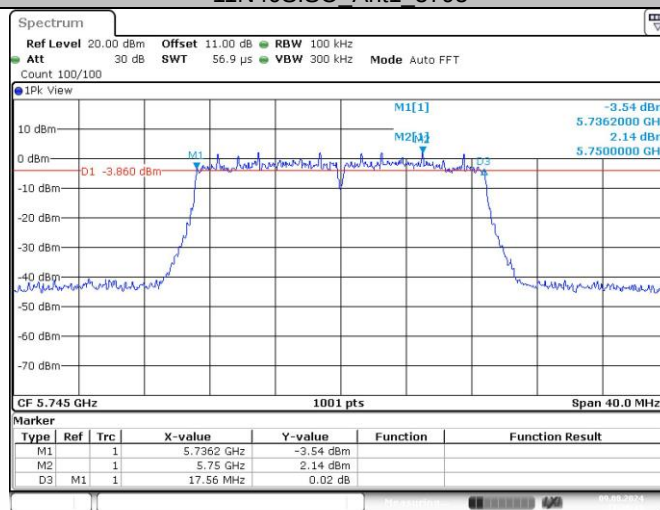
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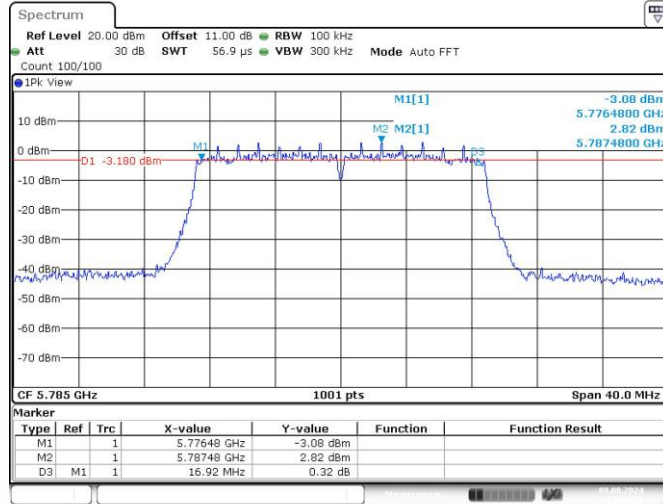
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11N40SISO Ant1 5795

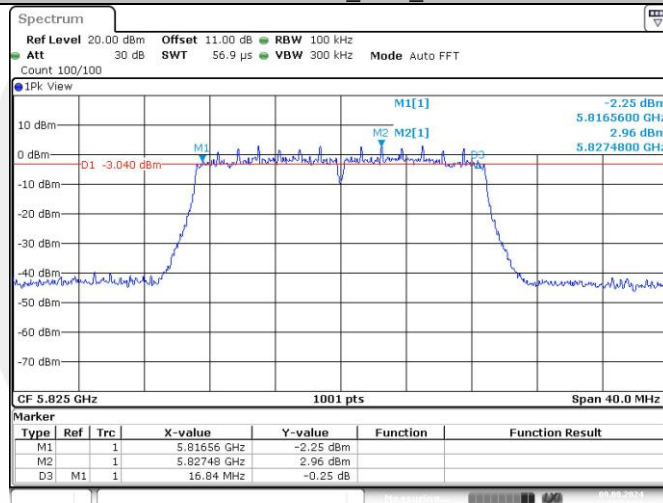


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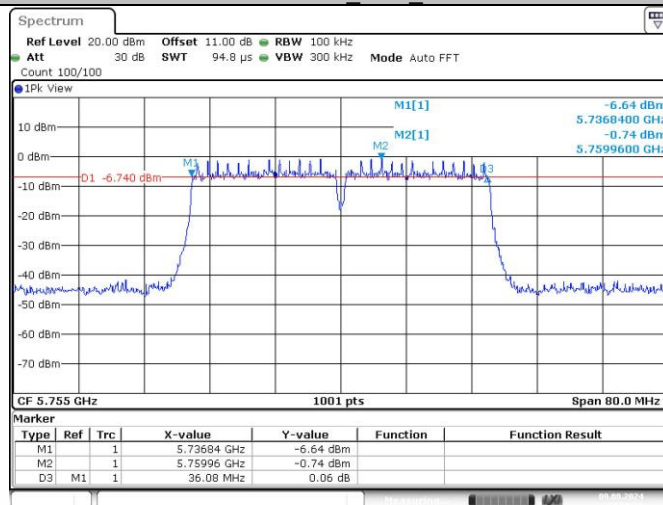
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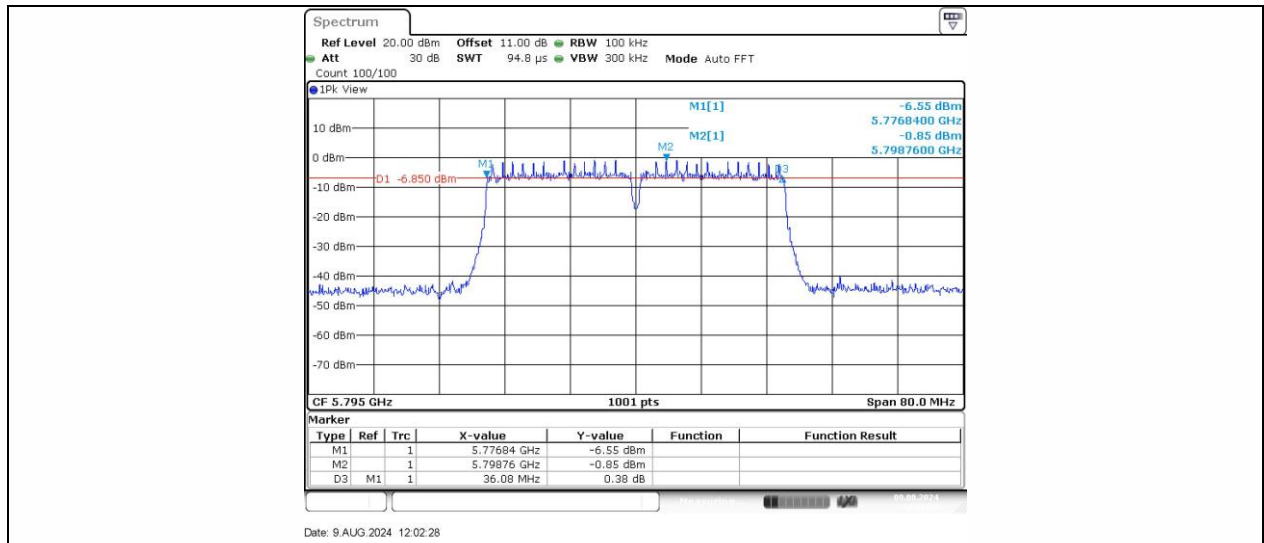
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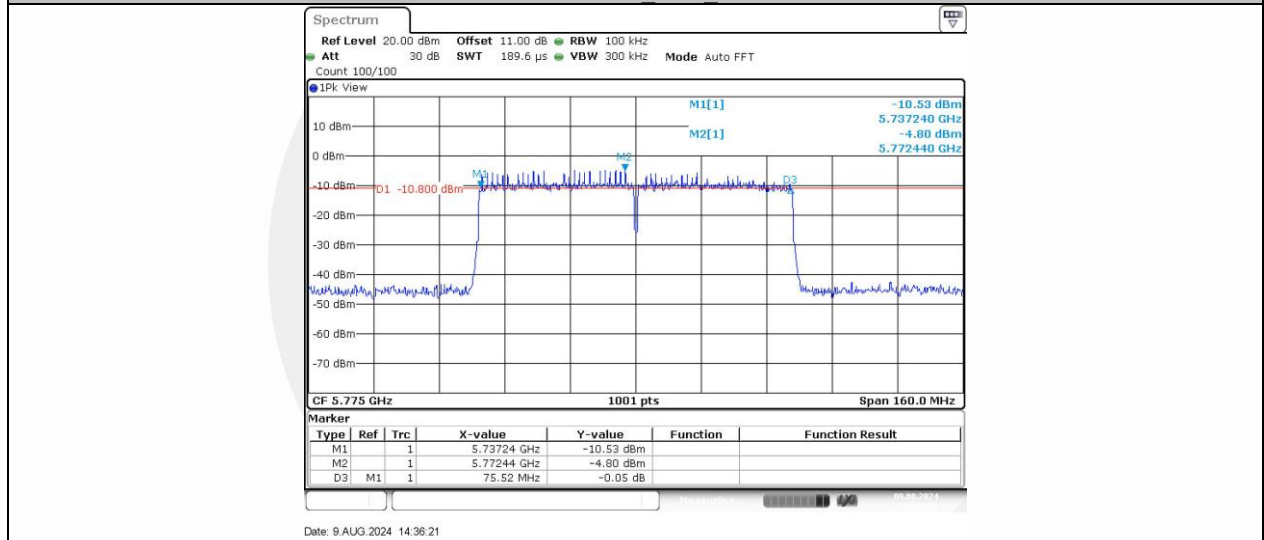


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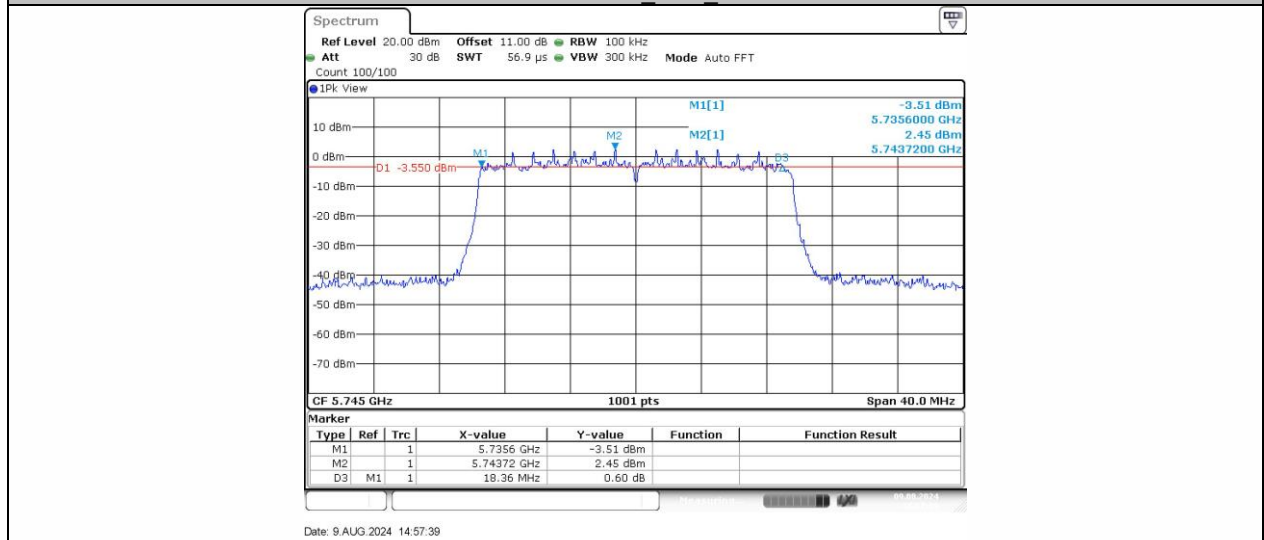
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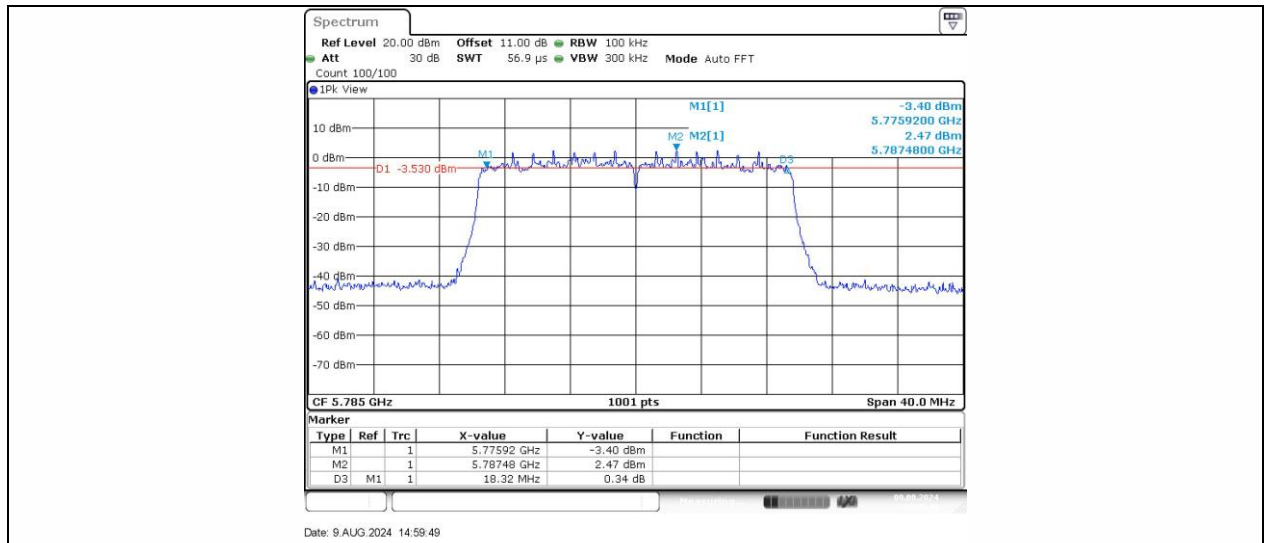
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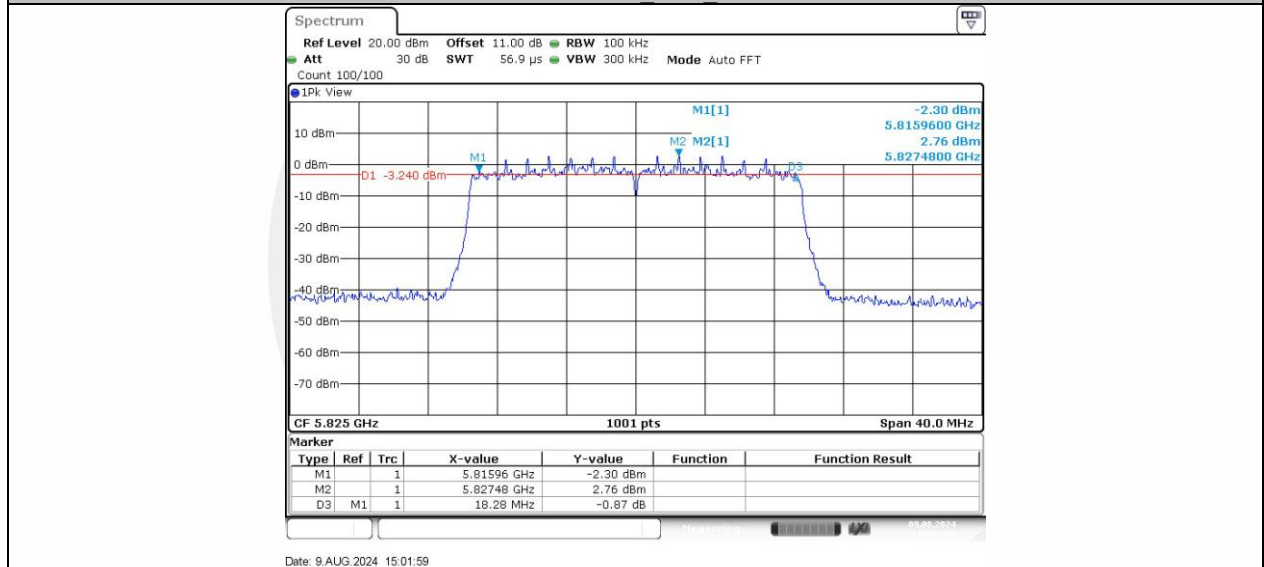
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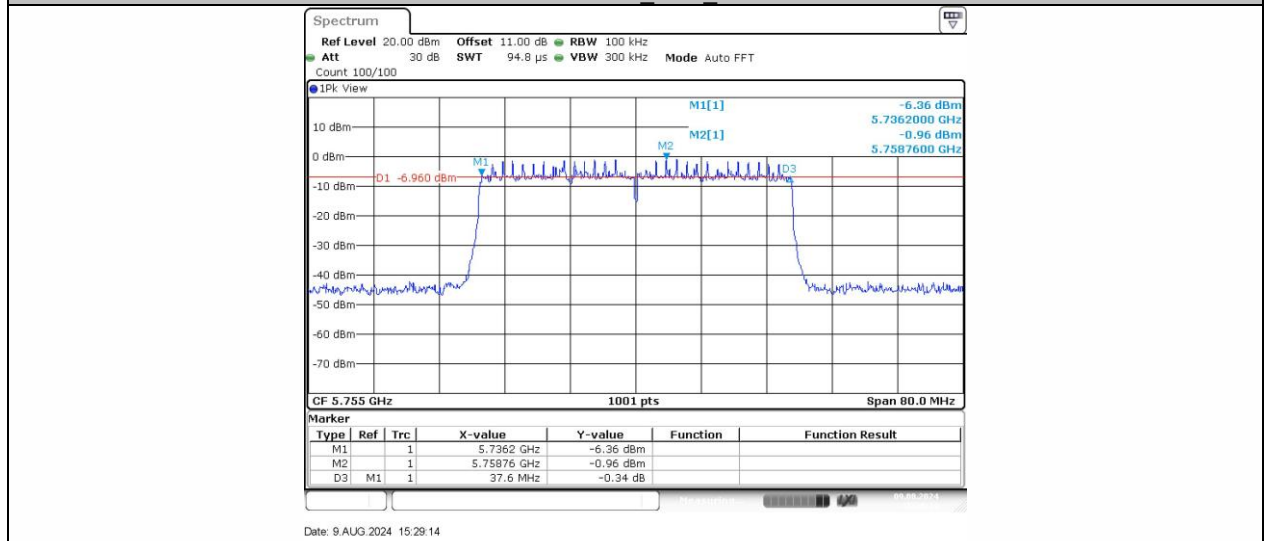
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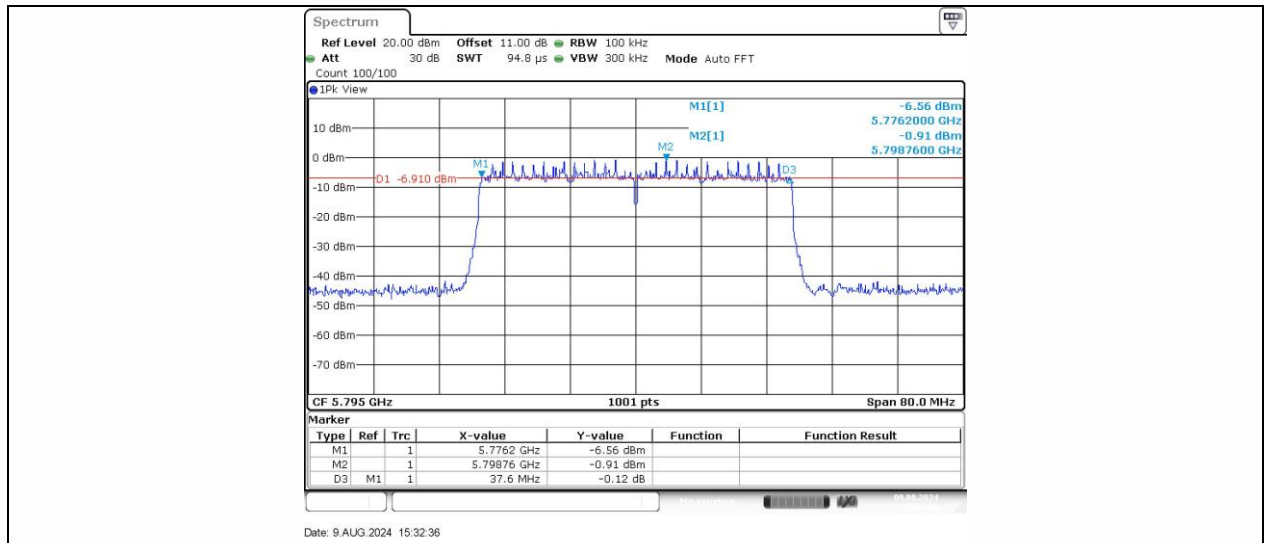
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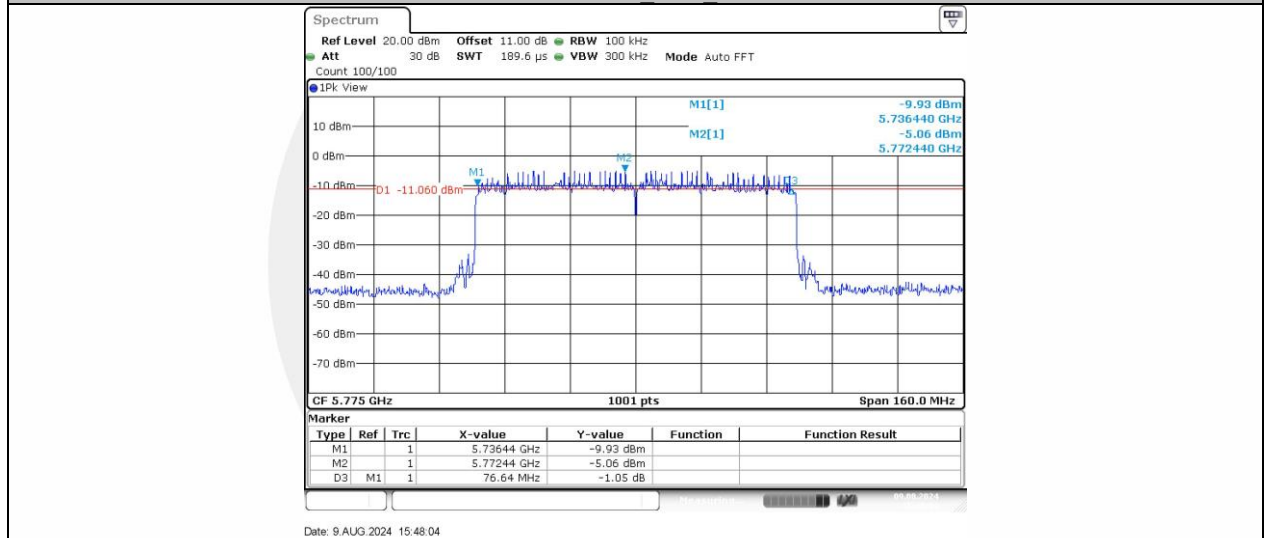
11AX20SISO Ant1 5825



11AX40SISO Ant1 5755



11AX40SISO Ant1 5795



11AX80SISO Ant1 5775

8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
 According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
 According to FCC Part 15.407(a)(3) for UNII Band III
 According to 789033 D02 Section II(E)

8.2.2 Conformance Limit

■ For the band 5.15-5.25 GHz,

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1.

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

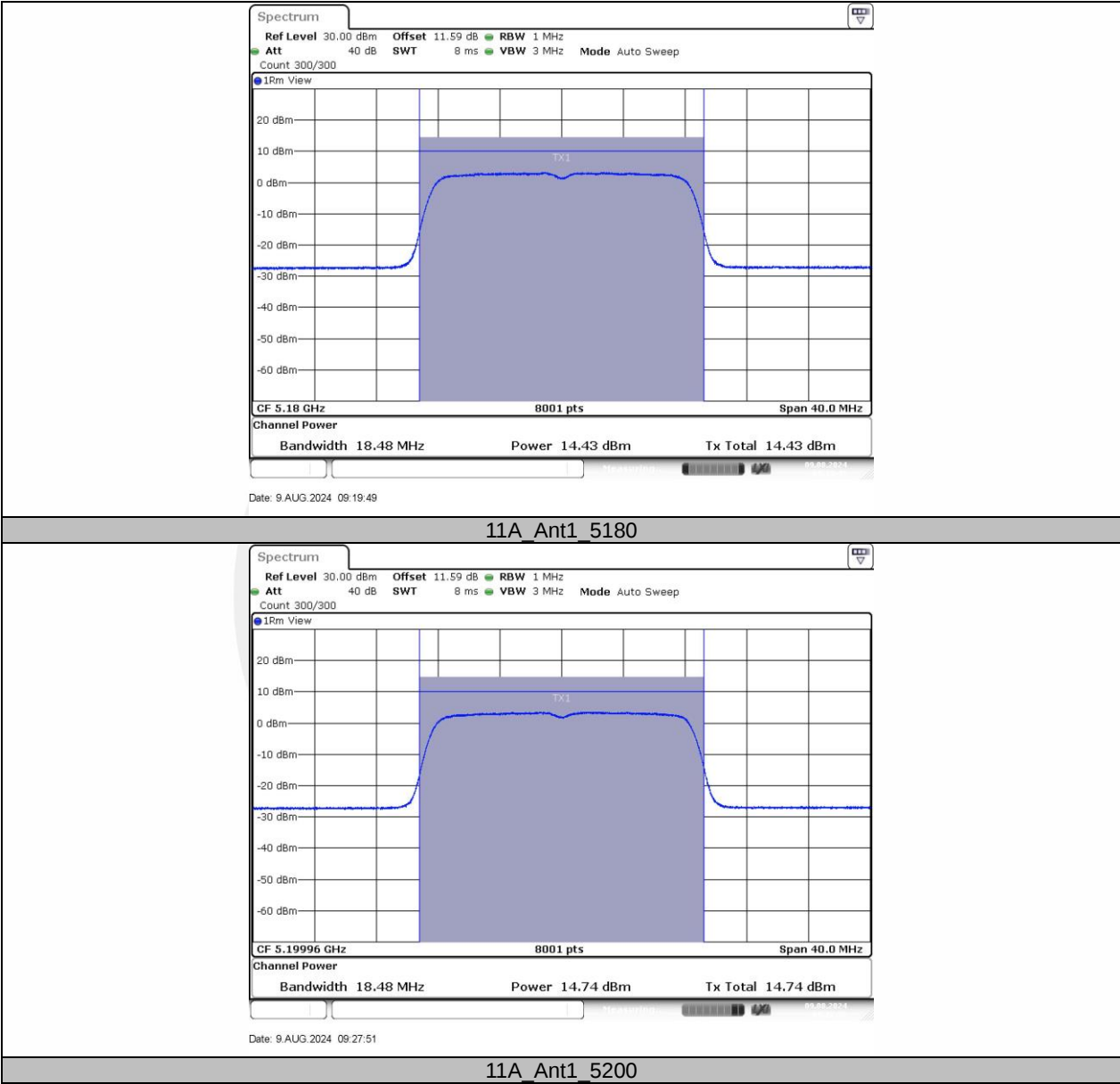
8.2.5 Test Results

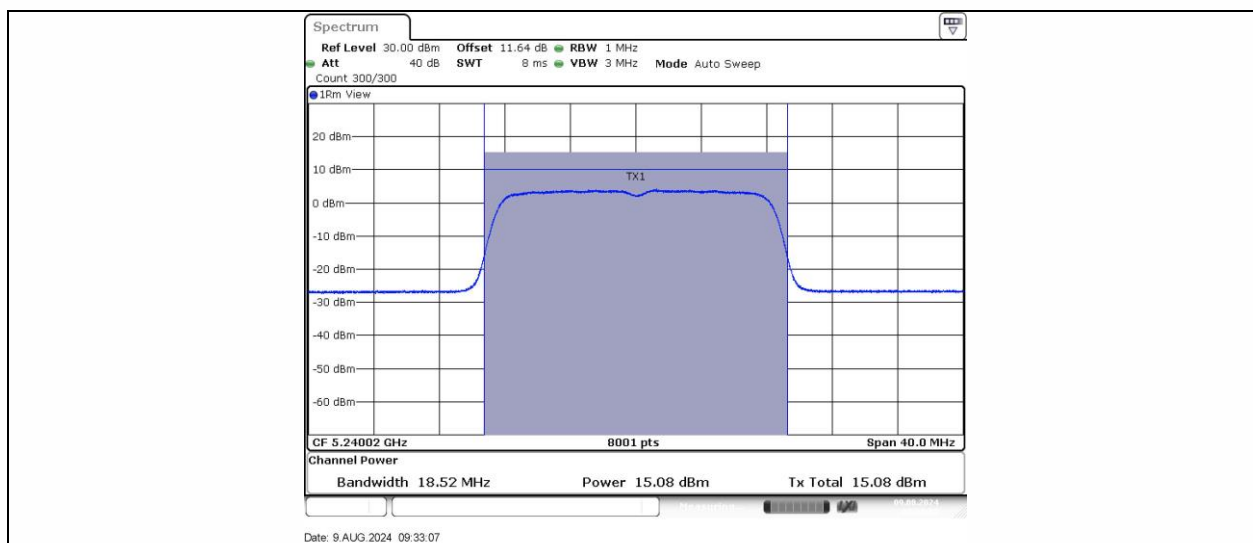
Temperature : 25°C
Humidity : 60 %

ATM Pressure: 1011 mbar
Test Engineer: XXH

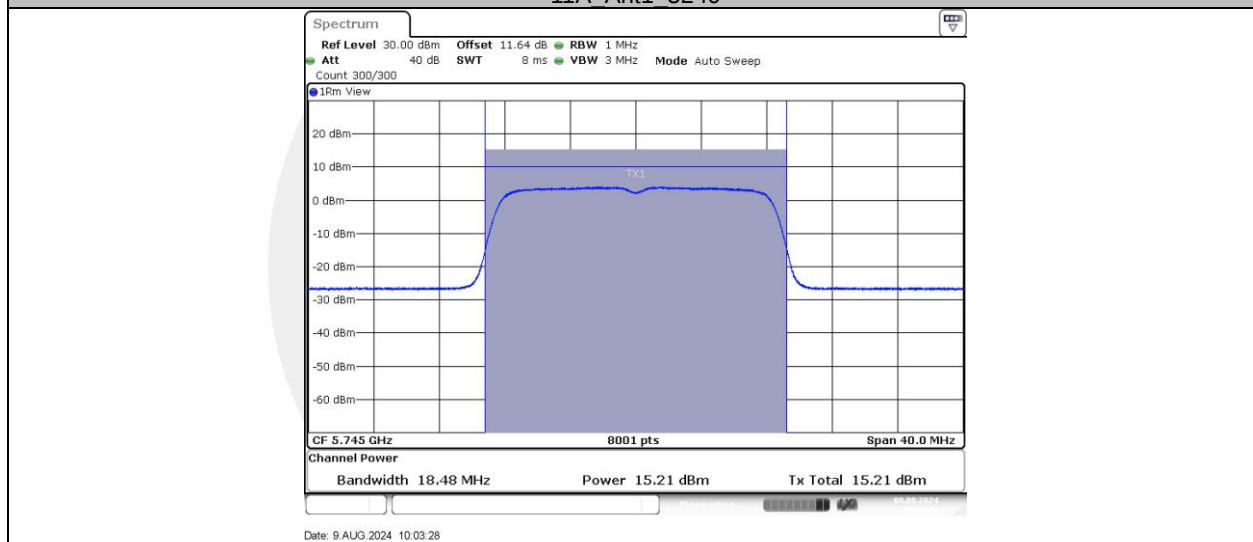
Test Mode	Frequency [MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	5180	13.84	87.34	0.59	14.43	≤23.98	3.12	17.55	---	PASS
	5200	14.15	87.34	0.59	14.74	≤23.98	3.12	17.86	---	PASS
	5240	14.44	86.25	0.64	15.08	≤23.98	3.12	18.2	---	PASS
	5745	14.57	86.25	0.64	15.21	≤30.00	3.12	18.33	---	PASS
	5785	14.72	87.50	0.58	15.30	≤30.00	3.12	18.42	---	PASS
	5825	14.78	87.50	0.58	15.36	≤30.00	3.12	18.48	---	PASS
11N20 SISO	5180	13.97	86.84	0.61	14.58	≤23.98	3.12	17.7	---	PASS
	5200	14.10	86.84	0.61	14.71	≤23.98	3.12	17.83	---	PASS
	5240	14.22	86.84	0.61	14.83	≤23.98	3.12	17.95	---	PASS
	5745	14.50	85.53	0.68	15.18	≤30.00	3.12	18.3	---	PASS
	5785	14.61	86.67	0.62	15.23	≤30.00	3.12	18.35	---	PASS
	5825	14.50	86.84	0.61	15.11	≤30.00	3.12	18.23	---	PASS
11N40 SISO	5190	13.25	75.56	1.22	14.47	≤23.98	3.12	17.59	---	PASS
	5230	13.34	77.27	1.12	14.46	≤23.98	3.12	17.58	---	PASS
	5755	13.05	77.27	1.12	14.17	≤30.00	3.12	17.29	---	PASS
	5795	13.11	77.27	1.12	14.23	≤30.00	3.12	17.35	---	PASS
11AC20 SISO	5180	12.94	86.84	0.61	13.55	≤23.98	3.12	16.67	---	PASS
	5200	13.11	86.84	0.61	13.72	≤23.98	3.12	16.84	---	PASS
	5240	13.32	85.71	0.67	13.99	≤23.98	3.12	17.11	---	PASS
	5745	13.56	85.71	0.67	14.23	≤30.00	3.12	17.35	---	PASS
	5785	13.67	86.84	0.61	14.28	≤30.00	3.12	17.4	---	PASS
	5825	13.73	86.84	0.61	14.34	≤30.00	3.12	17.46	---	PASS
11AC40 SISO	5190	11.75	77.27	1.12	12.87	≤23.98	3.12	15.99	---	PASS
	5230	12.07	77.78	1.09	13.16	≤23.98	3.12	16.28	---	PASS
	5755	12.44	77.78	1.09	13.53	≤30.00	3.12	16.65	---	PASS
	5795	12.43	77.78	1.09	13.52	≤30.00	3.12	16.64	---	PASS
11AC80 SISO	5210	7.29	33.33	4.77	12.06	≤23.98	3.12	15.18	---	PASS
	5775	10.72	62.07	2.07	12.79	≤30.00	3.12	15.91	---	PASS
11AX20 SISO	5180	12.85	82.81	0.82	13.67	≤23.98	3.12	16.79	---	PASS
	5200	12.88	82.54	0.83	13.71	≤23.98	3.12	16.83	---	PASS
	5240	13.14	82.54	0.83	13.97	≤23.98	3.12	17.09	---	PASS
	5745	13.39	84.13	0.75	14.14	≤30.00	3.12	17.26	---	PASS
	5785	13.61	84.13	0.75	14.36	≤30.00	3.12	17.48	---	PASS
	5825	13.54	84.13	0.75	14.29	≤30.00	3.12	17.41	---	PASS
11AX40 SISO	5190	11.49	74.36	1.29	12.78	≤23.98	3.12	15.9	---	PASS
	5230	11.76	72.50	1.40	13.16	≤23.98	3.12	16.28	---	PASS
	5755	12.16	74.36	1.29	13.45	≤30.00	3.12	16.57	---	PASS
	5795	12.27	72.50	1.40	13.67	≤30.00	3.12	16.79	---	PASS
11AX80	5210	9.87	60.71	2.17	12.04	≤23.98	3.12	15.16	---	PASS

SISO	5775	10.53	62.96	2.01	12.54	≤30.00	3.12	15.66	---	PASS
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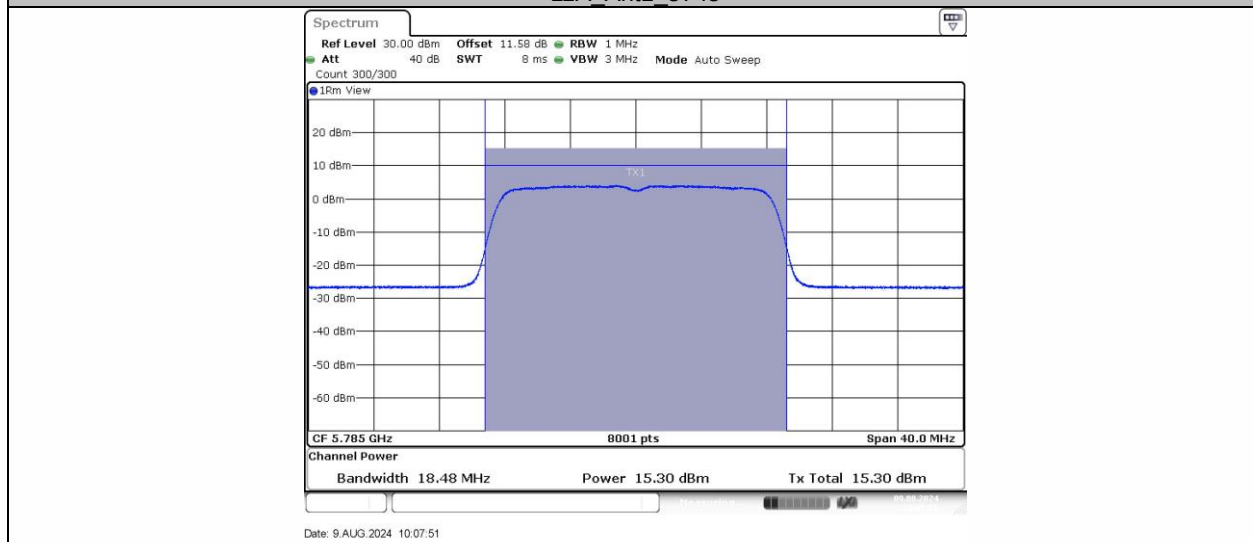




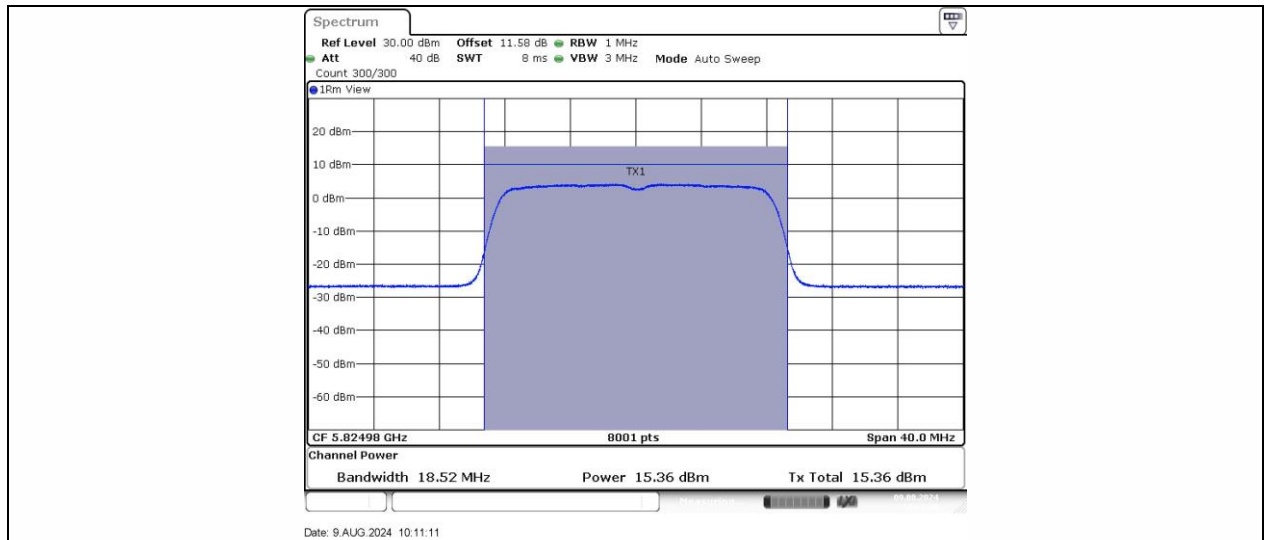
11A Ant1 5240



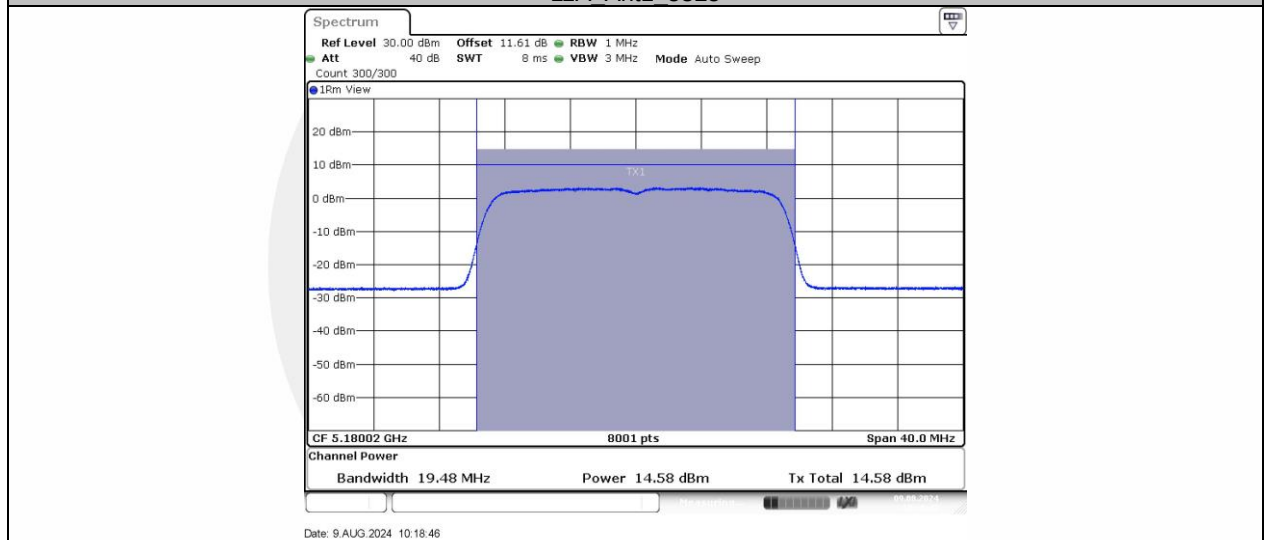
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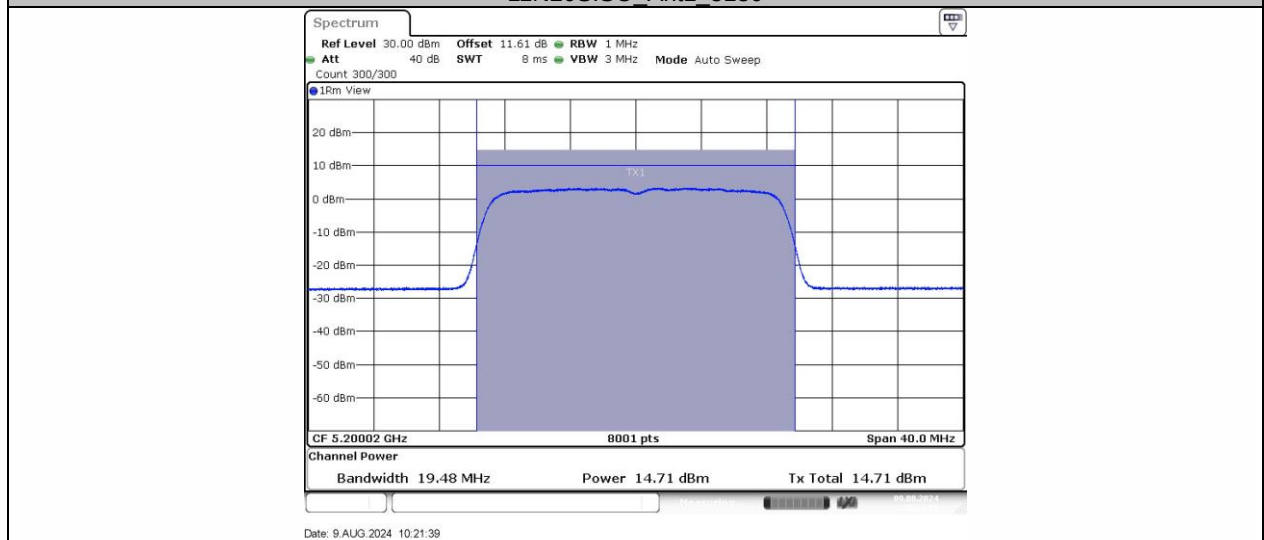
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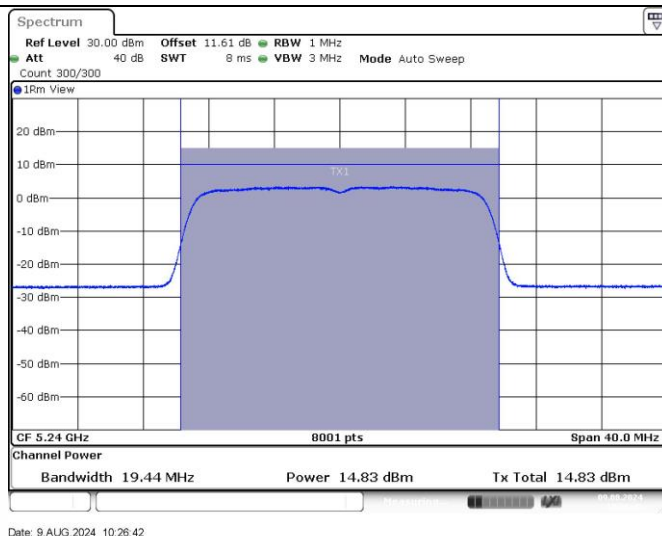
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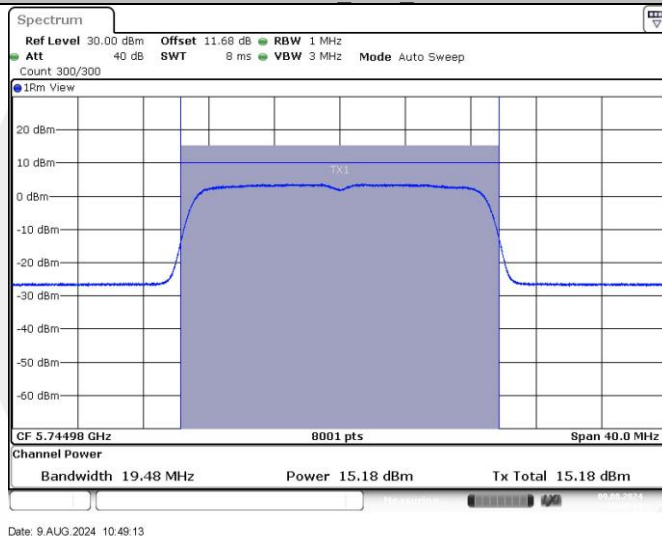
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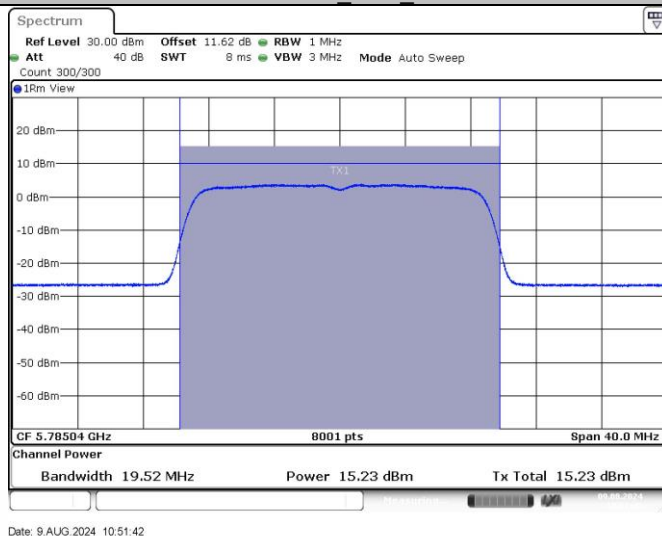
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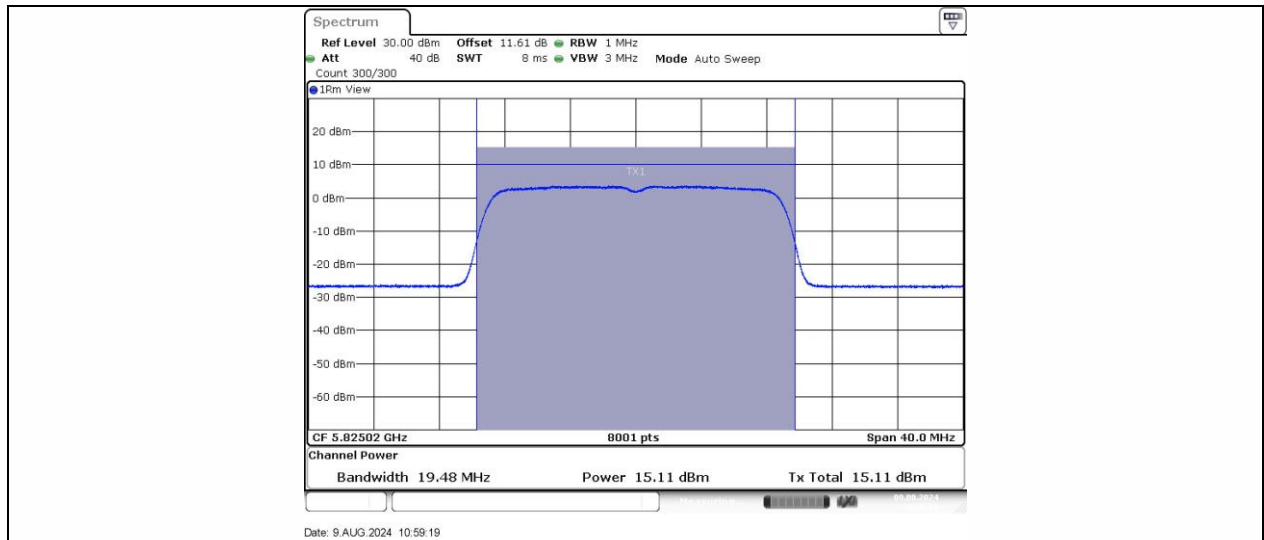
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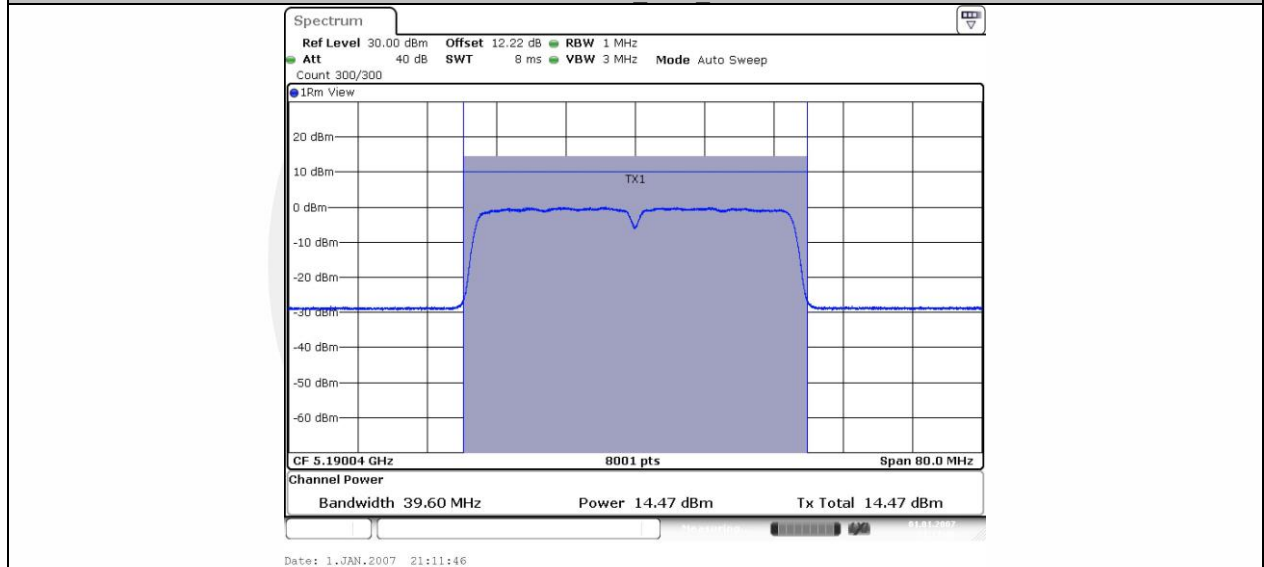
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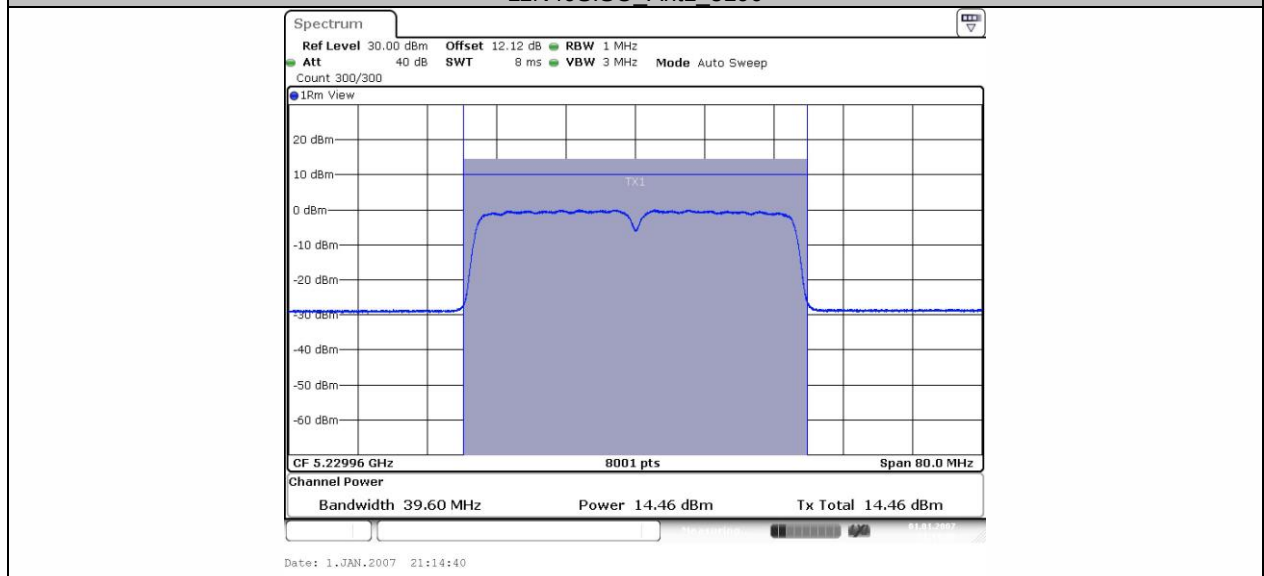
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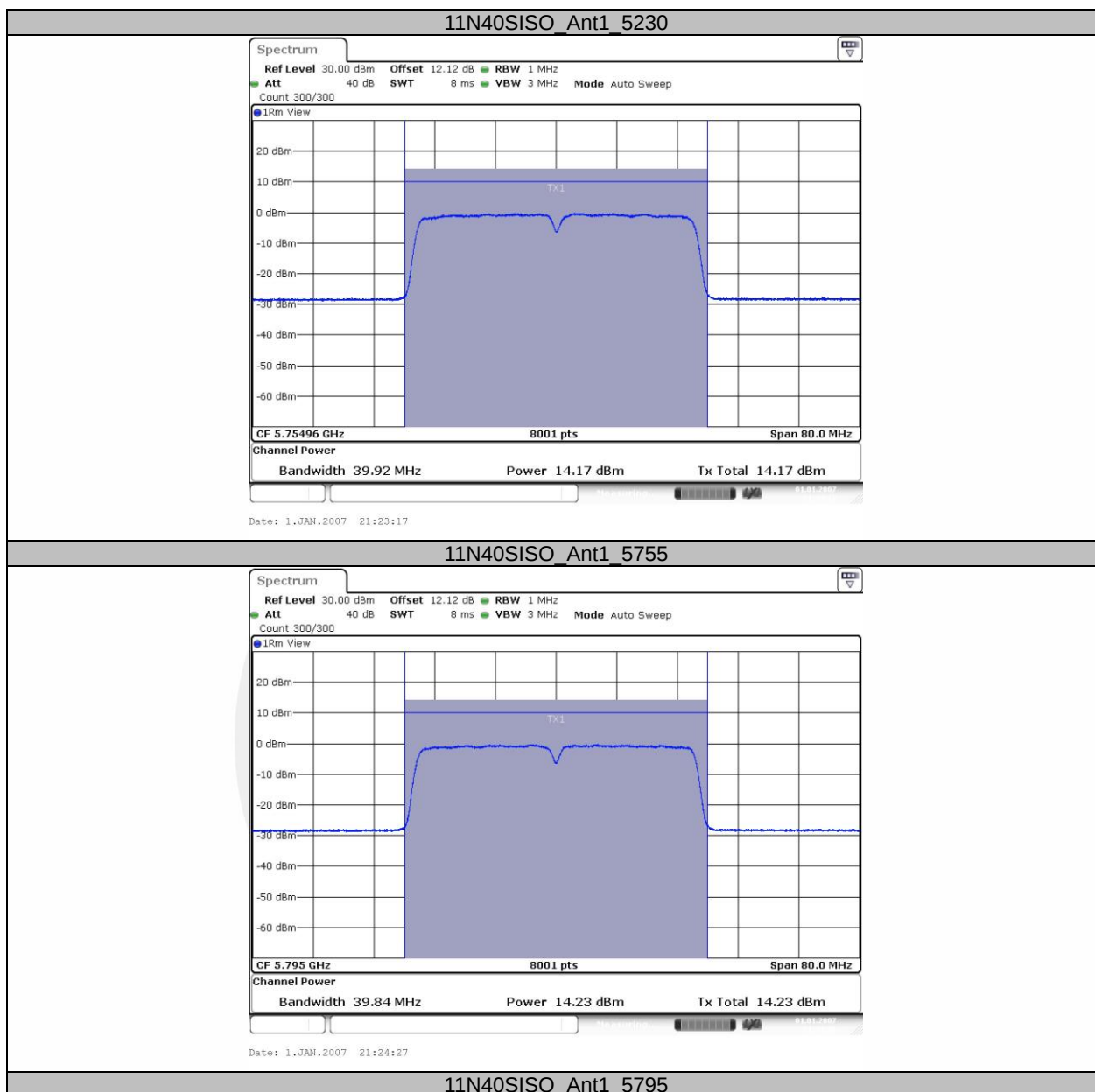


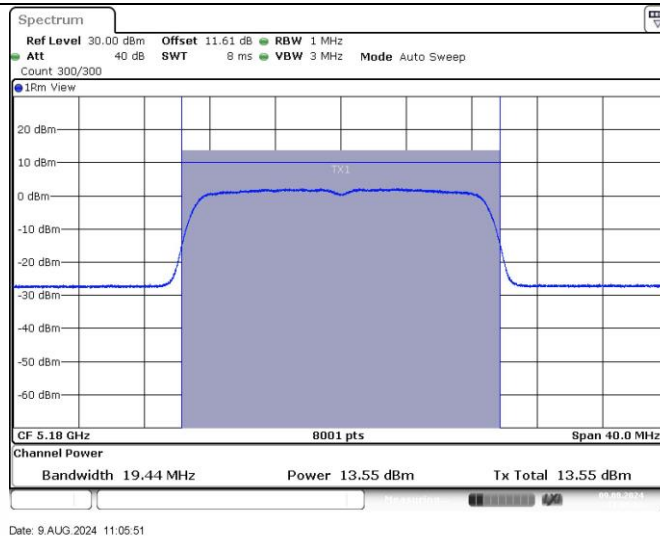
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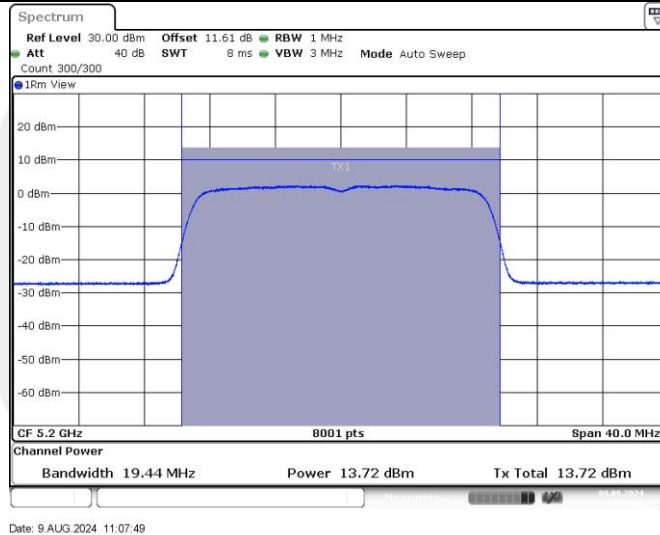
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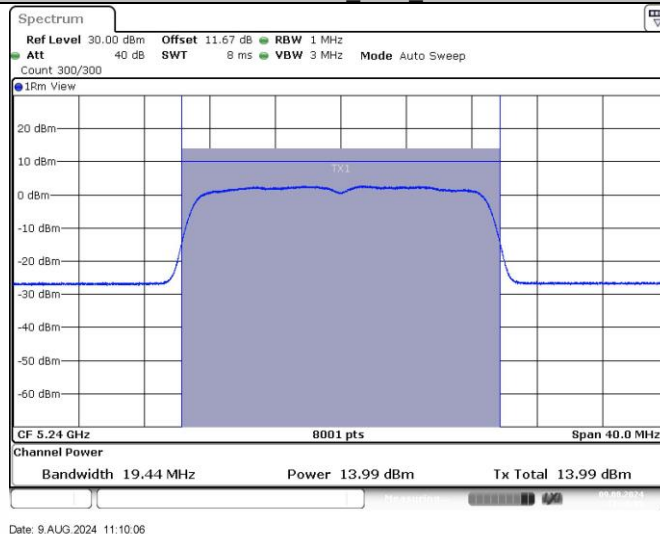




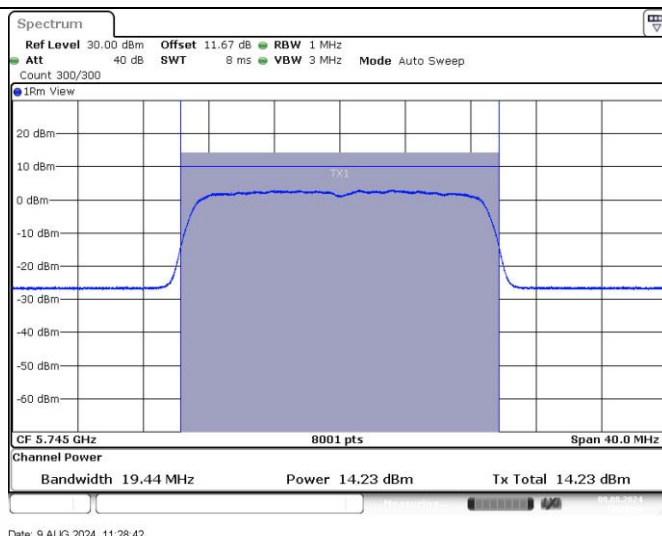
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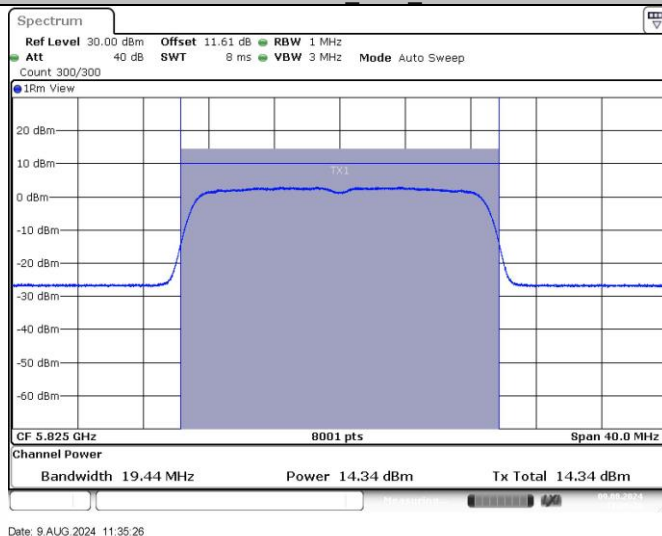
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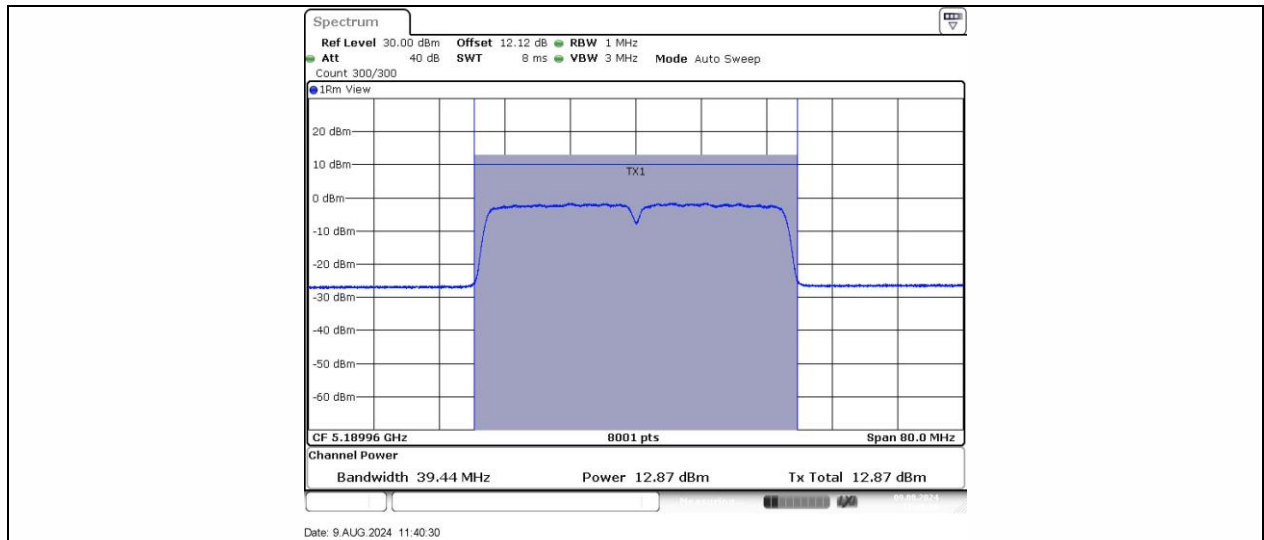
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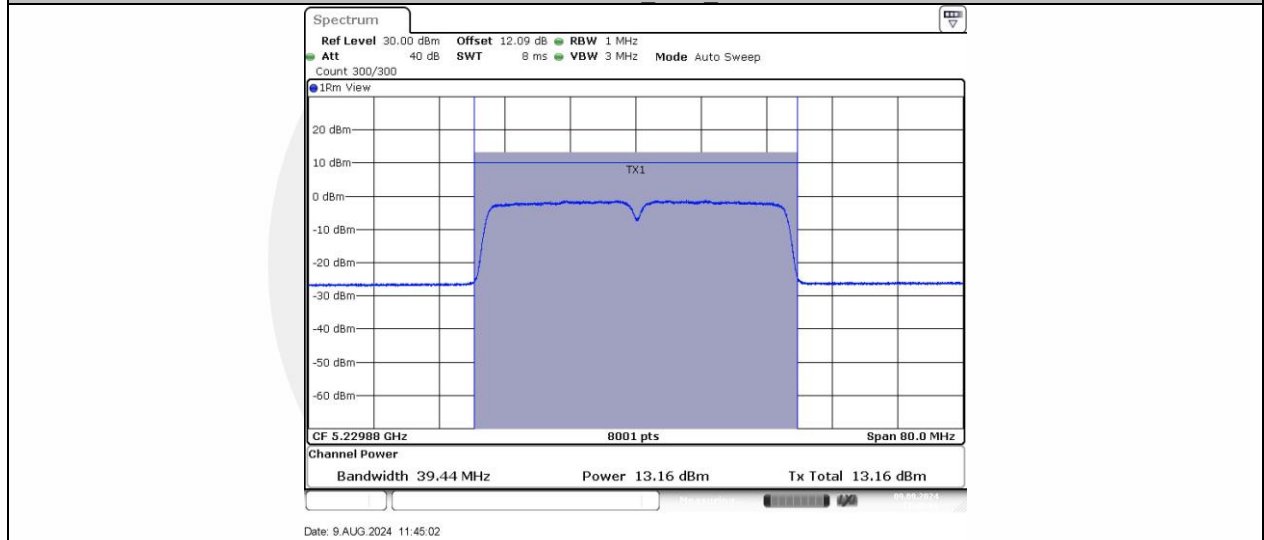
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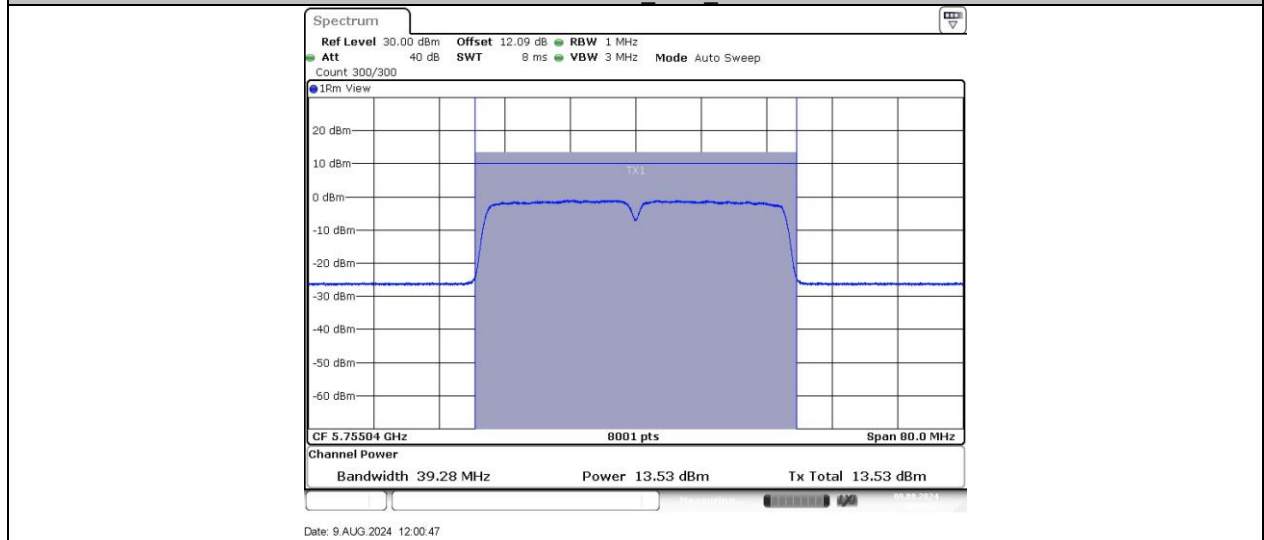
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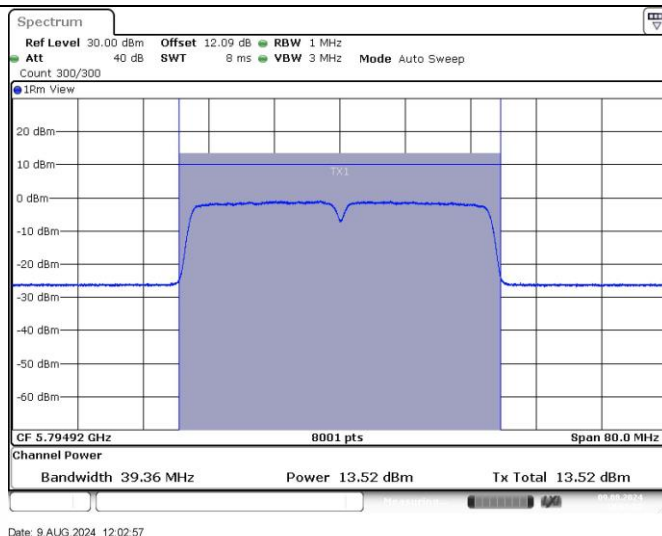
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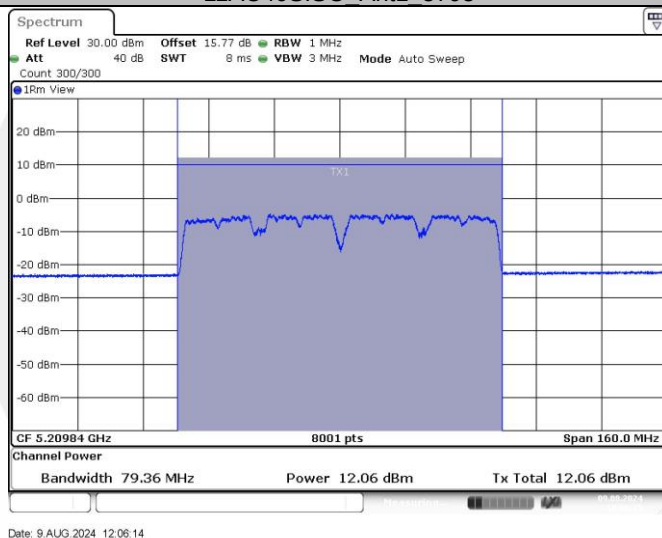
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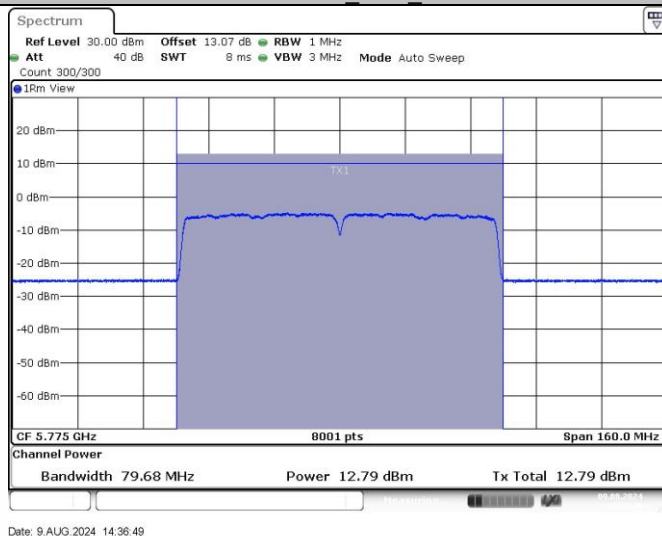
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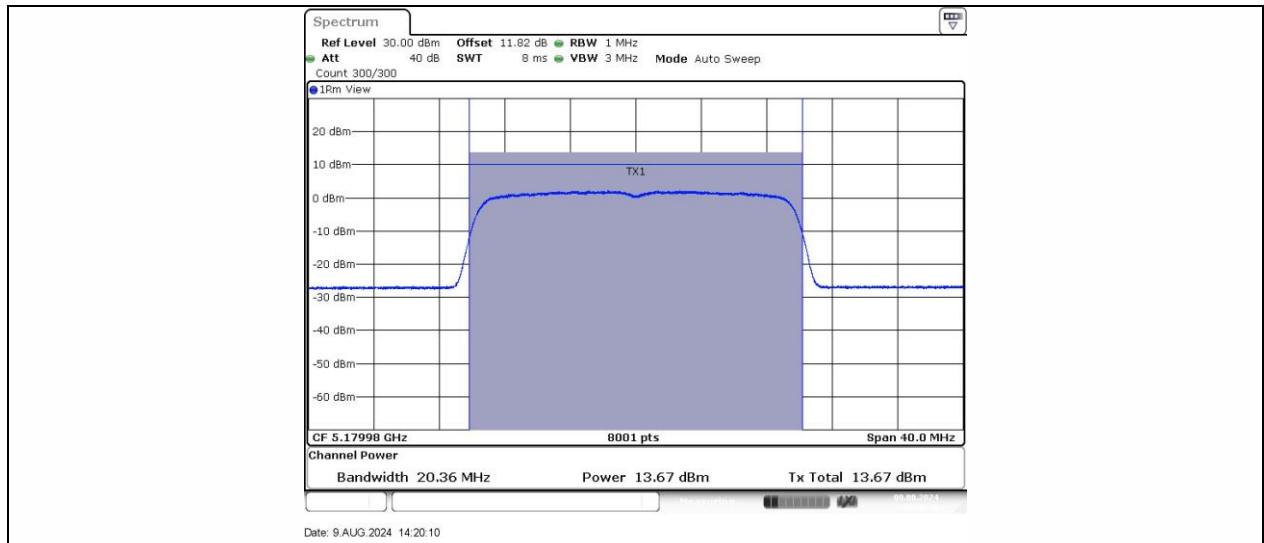
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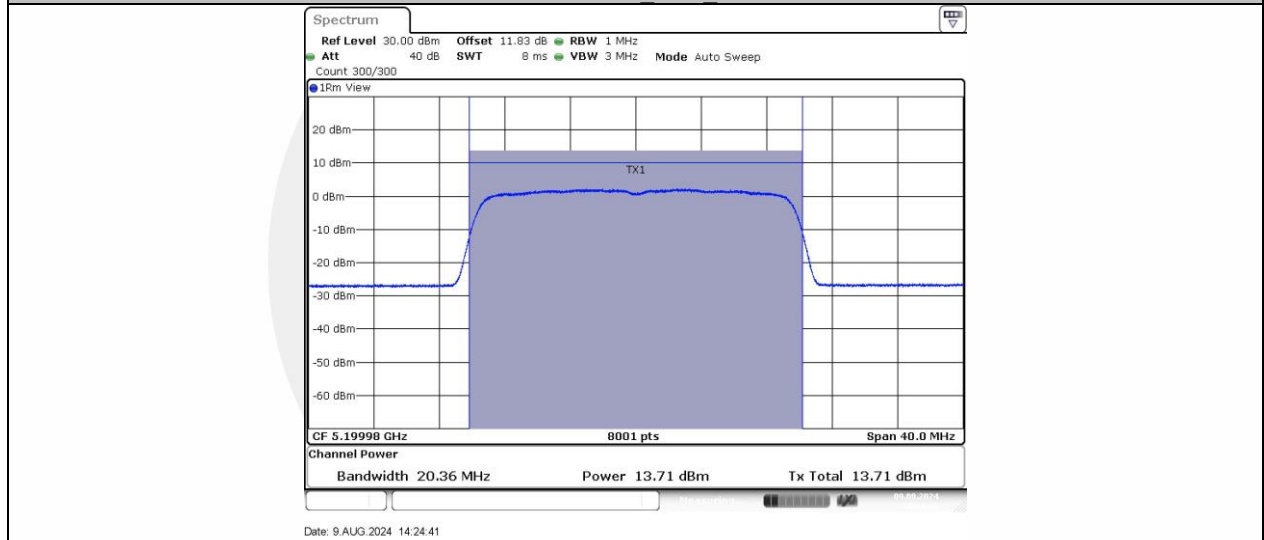
11AC80SISO Ant1 5210



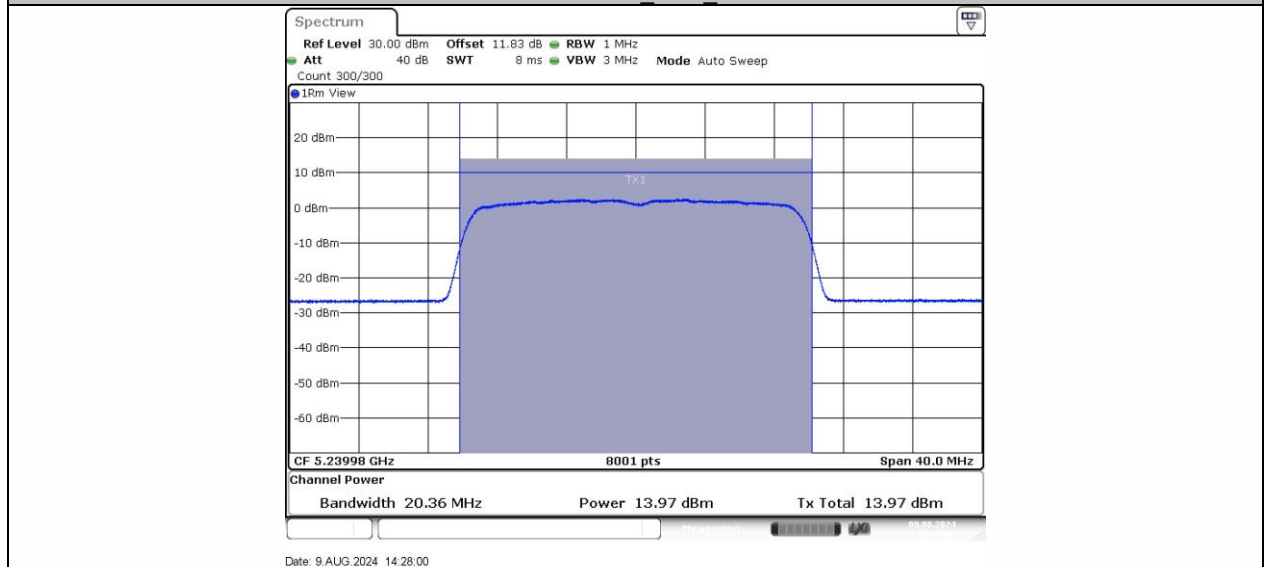
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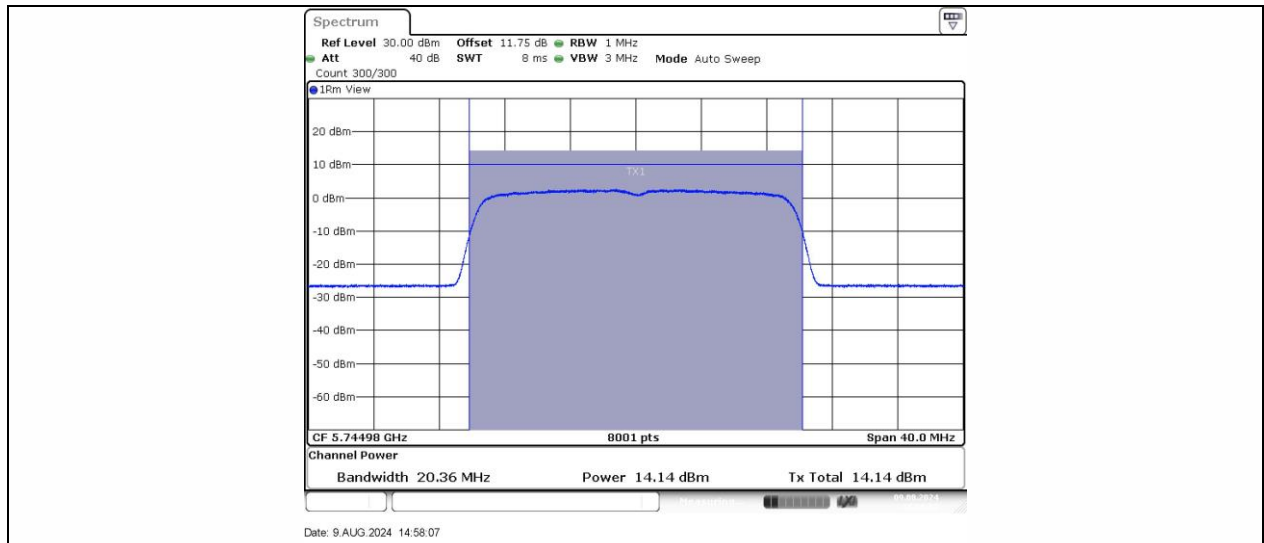
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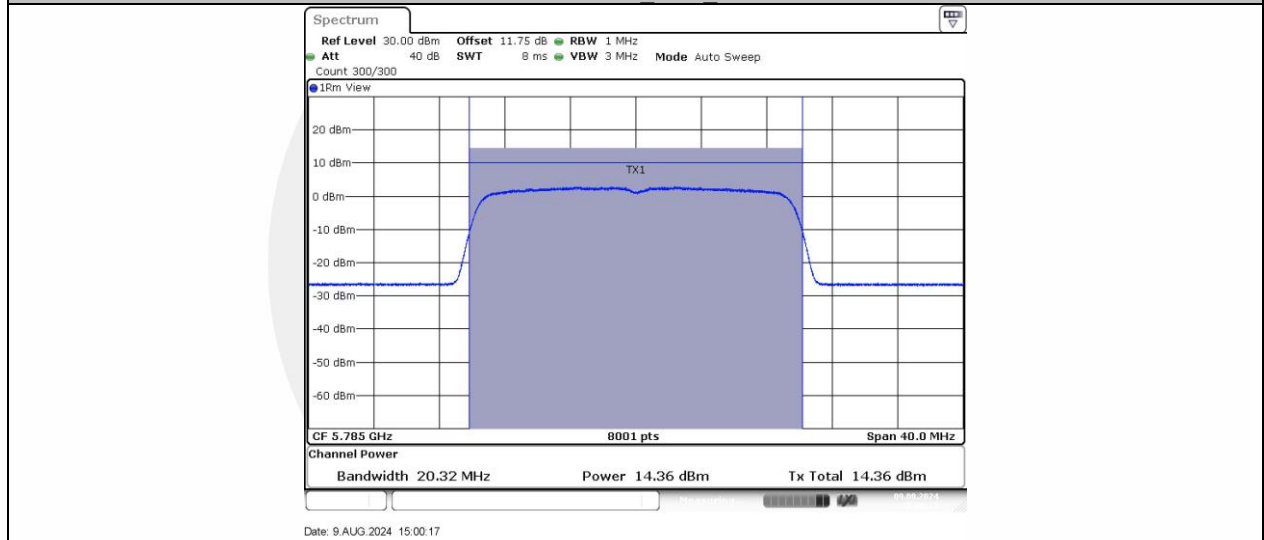
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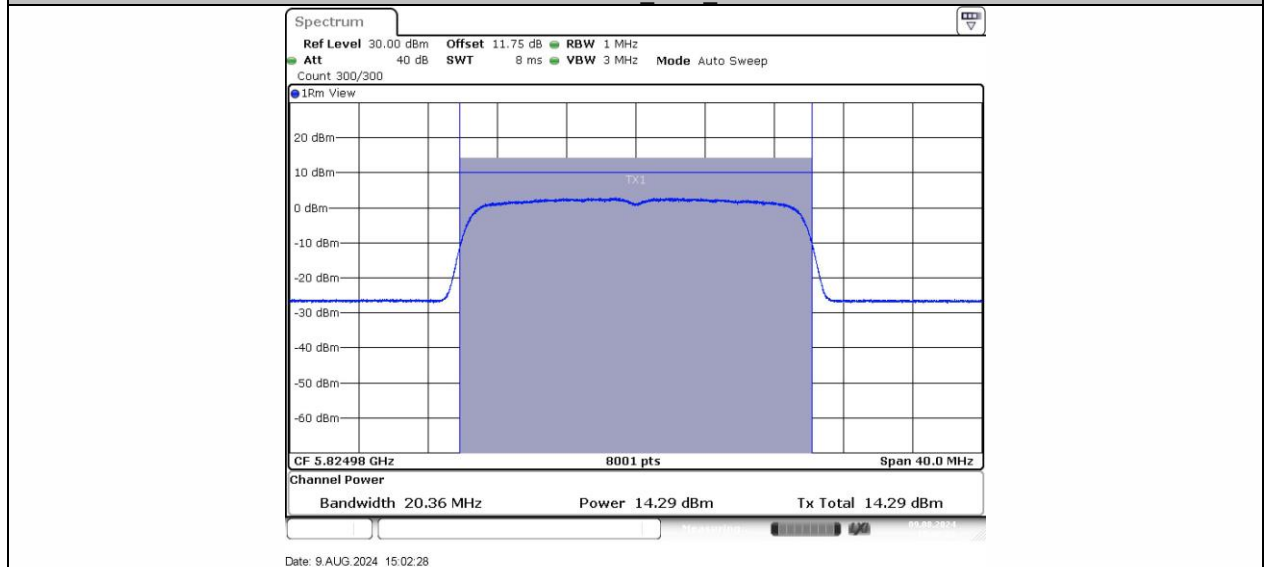
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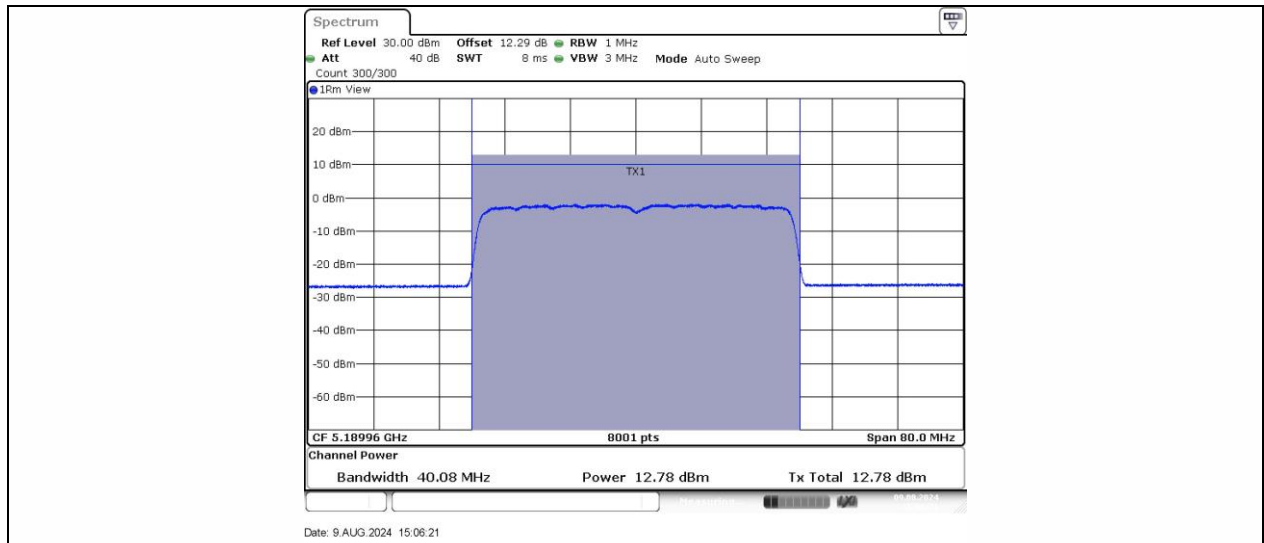
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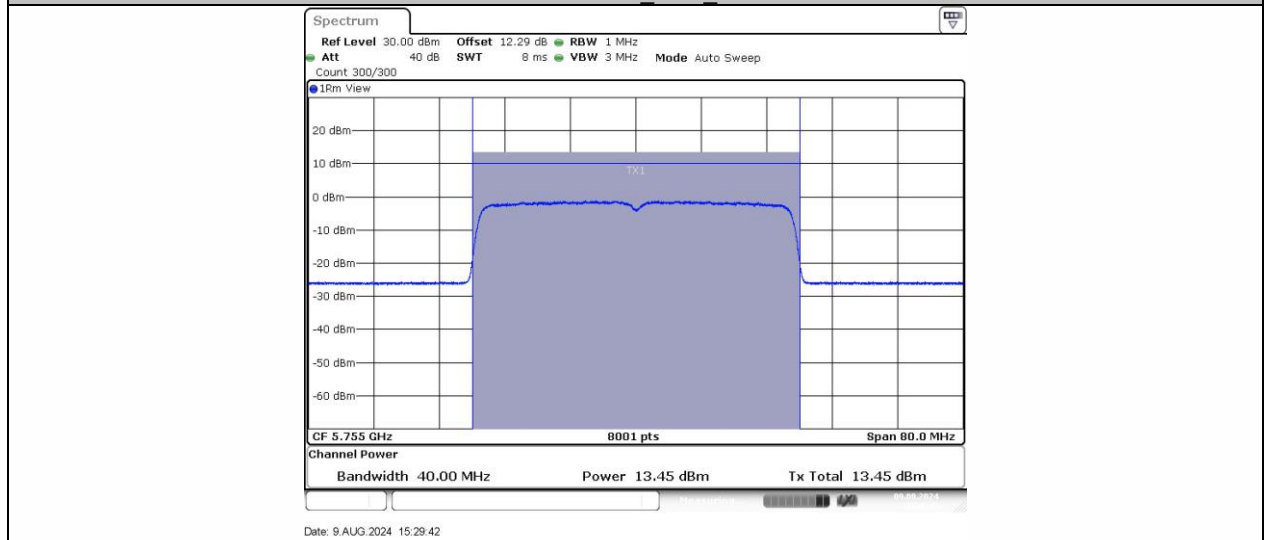
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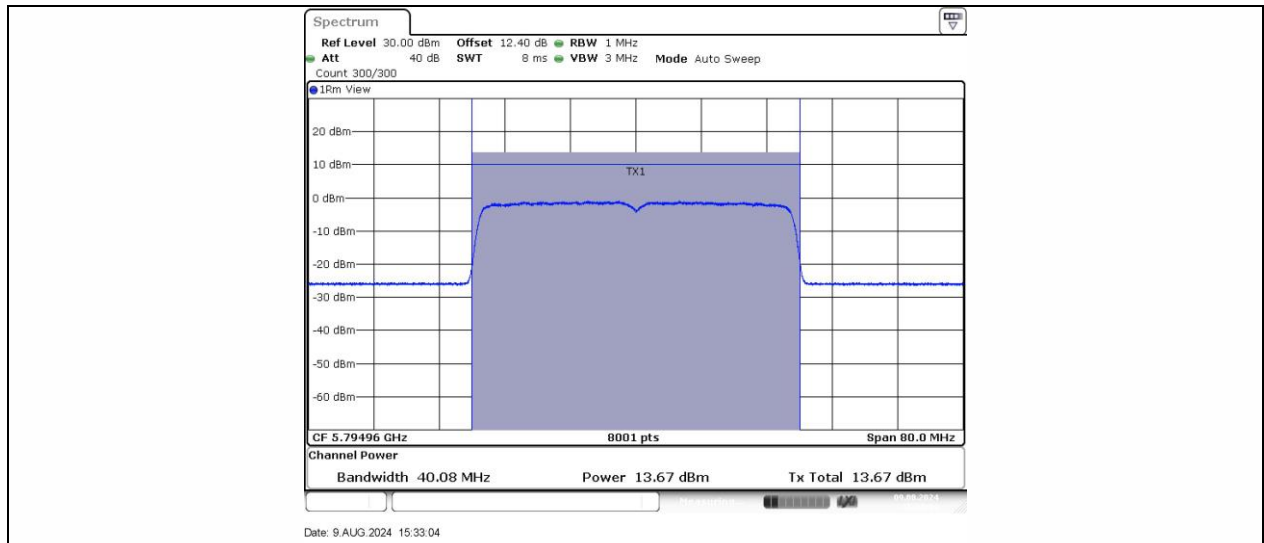
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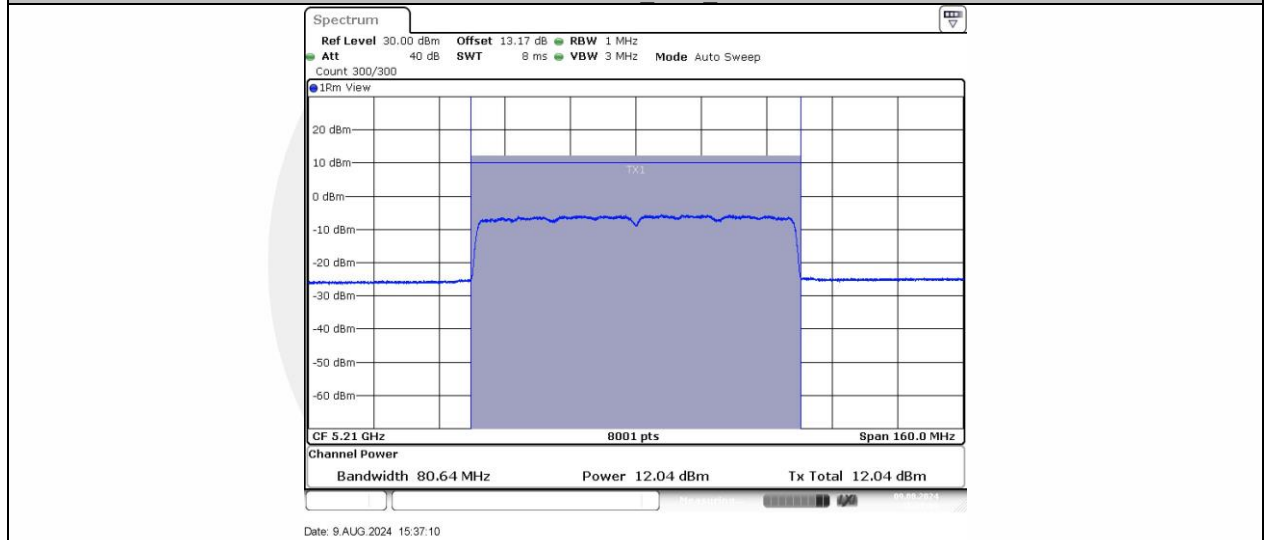
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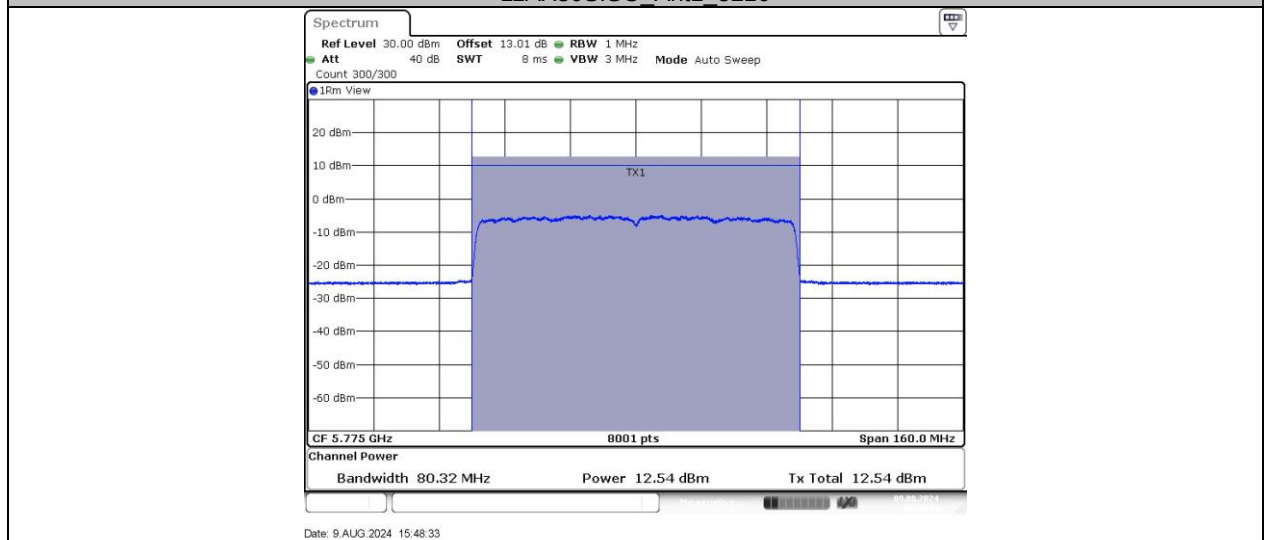
11AX40SISO_Ant1_5755



11AX40SISO Ant1 5795



11AX80SISO Ant1 5210



11AX80SISO Ant1 5775

8.3 MAXIMUM PEAK POWER DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(F)

8.3.2 Conformance Limit

■ For the band 5.15-5.25 GHz

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz

(b) (2) the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1.

8.3.4 Test Procedure

Methods refer to FCC KDB 789033.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections.

5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

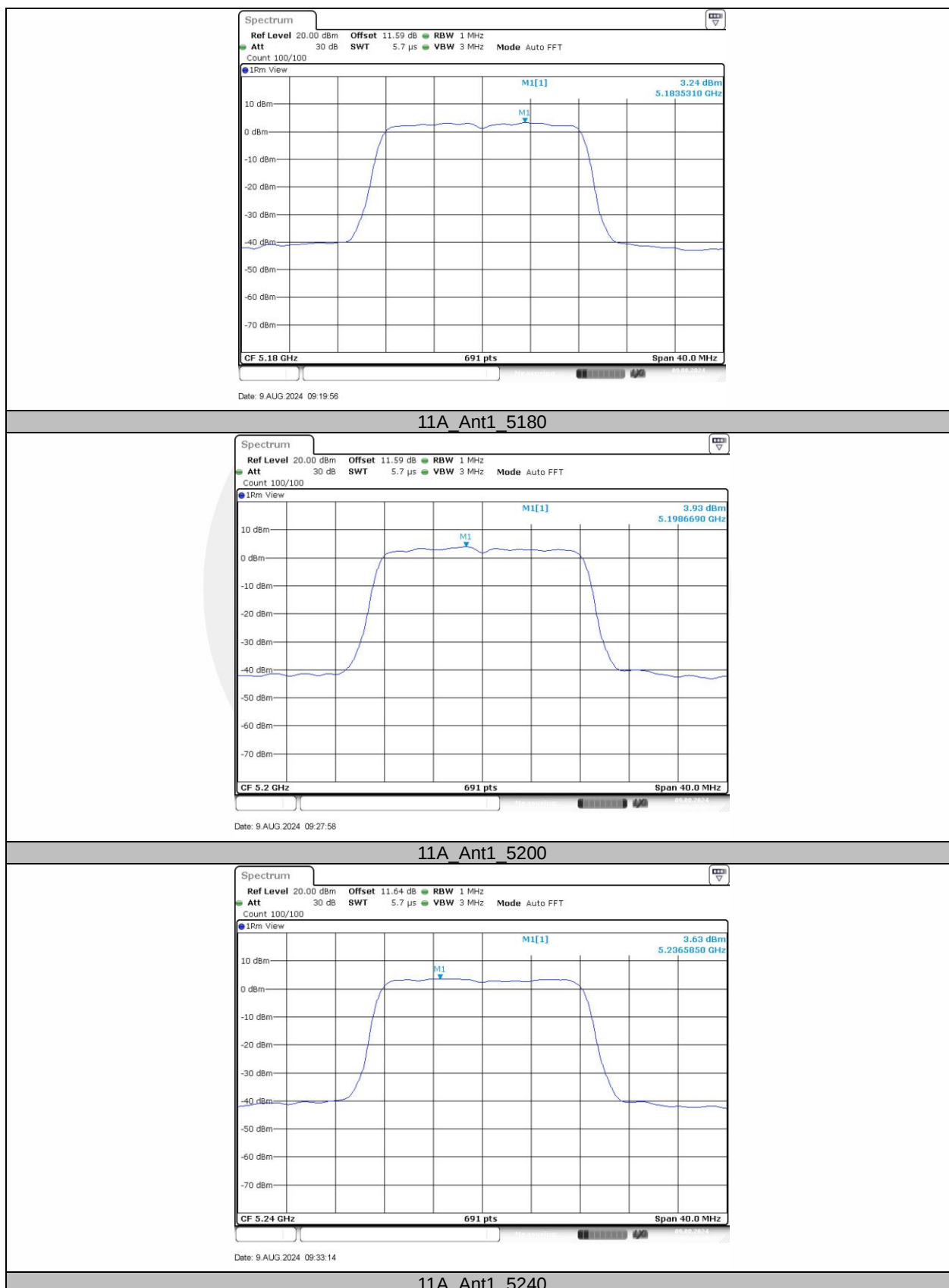
8.3.5 Test Results

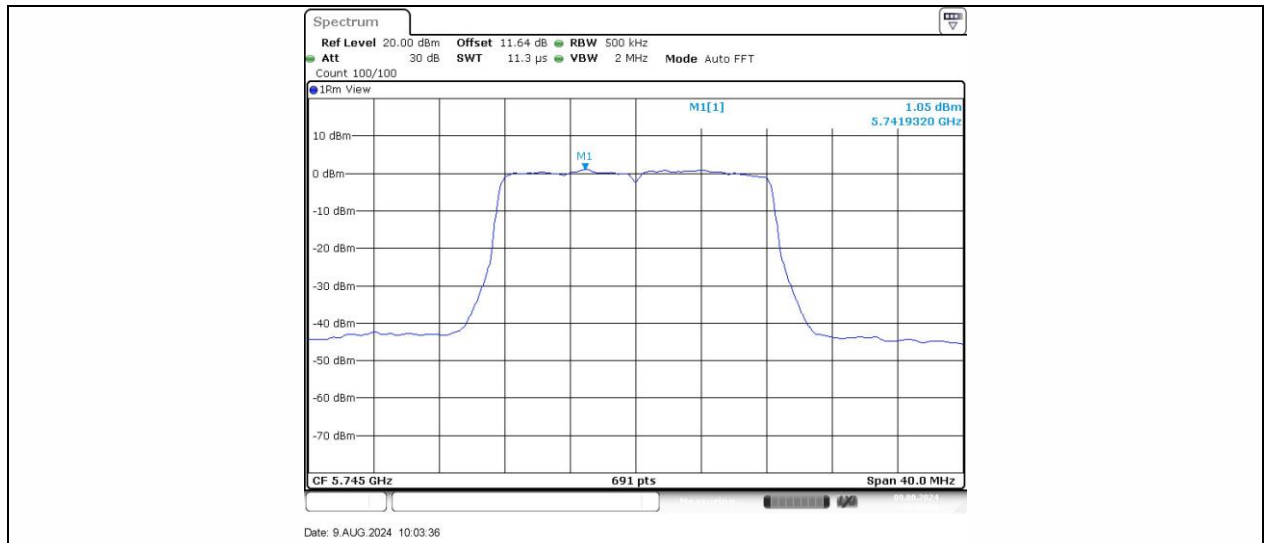
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Humidity : 60 %

ATM Pressure: 1011 mbar
Test Engineer: XXH

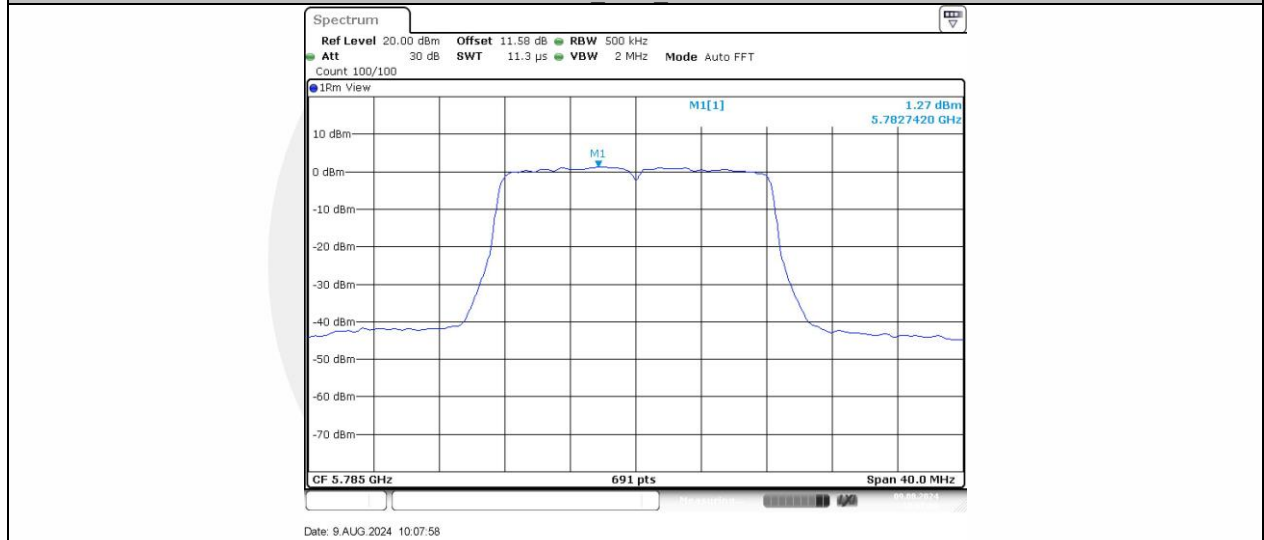
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	3.24	≤11.00	PASS
		5200	3.93	≤11.00	PASS
		5240	3.63	≤11.00	PASS
		5745	1.05	≤30.00	PASS
		5785	1.27	≤30.00	PASS
		5825	0.86	≤30.00	PASS
11N20SISO	Ant1	5180	3.47	≤11.00	PASS
		5200	3.26	≤11.00	PASS
		5240	3.6	≤11.00	PASS
		5745	0.76	≤30.00	PASS
		5785	0.73	≤30.00	PASS
		5825	0.96	≤30.00	PASS
11N40SISO	Ant1	5190	-0.03	≤11.00	PASS
		5230	-0.07	≤11.00	PASS
		5755	-3.1	≤30.00	PASS
		5795	-3.12	≤30.00	PASS
11AC20SISO	Ant1	5180	2.18	≤11.00	PASS
		5200	2.37	≤11.00	PASS
		5240	2.63	≤11.00	PASS
		5745	-0.07	≤30.00	PASS
		5785	-0.24	≤30.00	PASS
		5825	0.2	≤30.00	PASS
11AC40SISO	Ant1	5190	-1.54	≤11.00	PASS
		5230	-1.31	≤11.00	PASS
		5755	-3.63	≤30.00	PASS
		5795	-3.88	≤30.00	PASS
11AC80SISO	Ant1	5210	-4.25	≤11.00	PASS
		5775	-7.28	≤30.00	PASS
11AX20SISO	Ant1	5180	2.5	≤11.00	PASS
		5200	1.88	≤11.00	PASS
		5240	2.33	≤11.00	PASS
		5745	-0.51	≤30.00	PASS
		5785	-0.23	≤30.00	PASS
		5825	0.05	≤30.00	PASS
11AX40SISO	Ant1	5190	-1.51	≤11.00	PASS
		5230	-1.28	≤11.00	PASS
		5755	-4.38	≤30.00	PASS
		5795	-3.95	≤30.00	PASS
11AX80SISO	Ant1	5210	-5.26	≤11.00	PASS
		5775	-7.54	≤30.00	PASS

8.3.6 Test Graphs

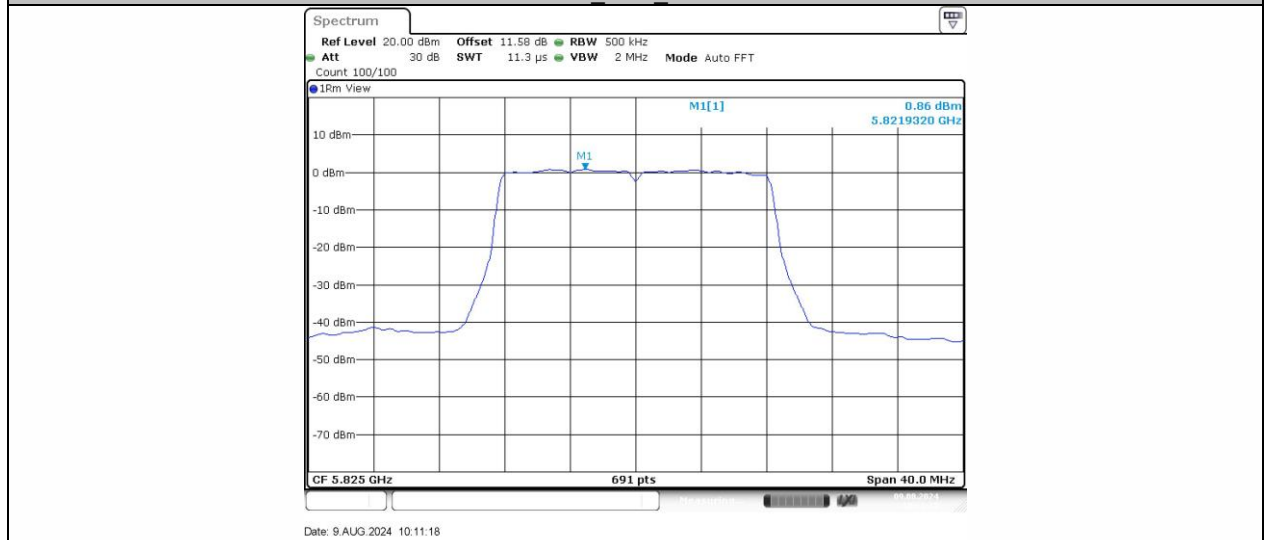




11A_Ant1_5745



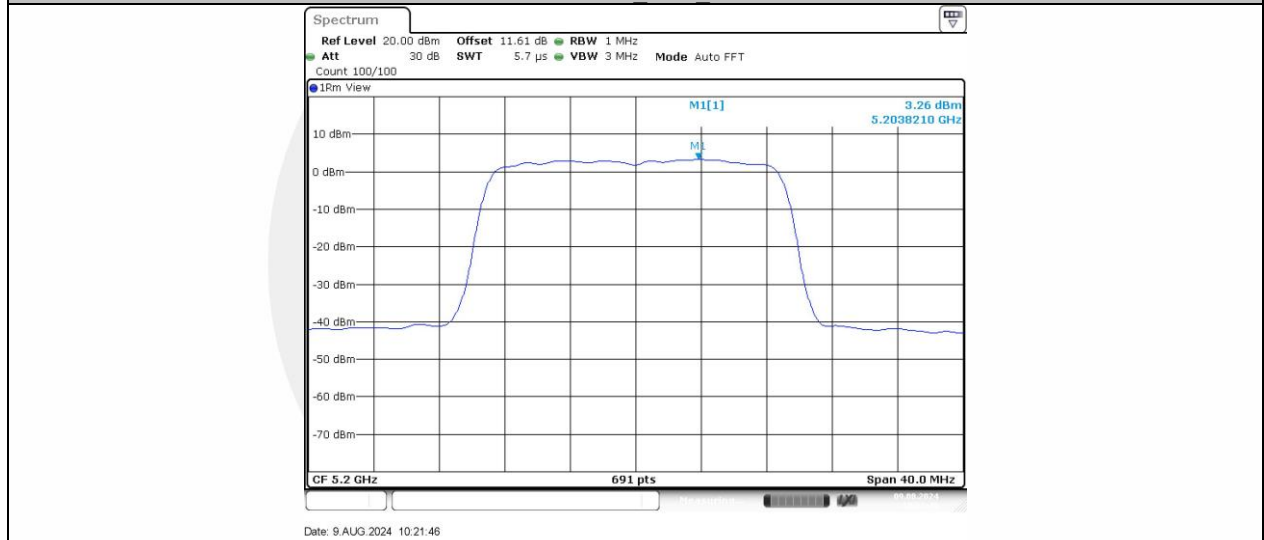
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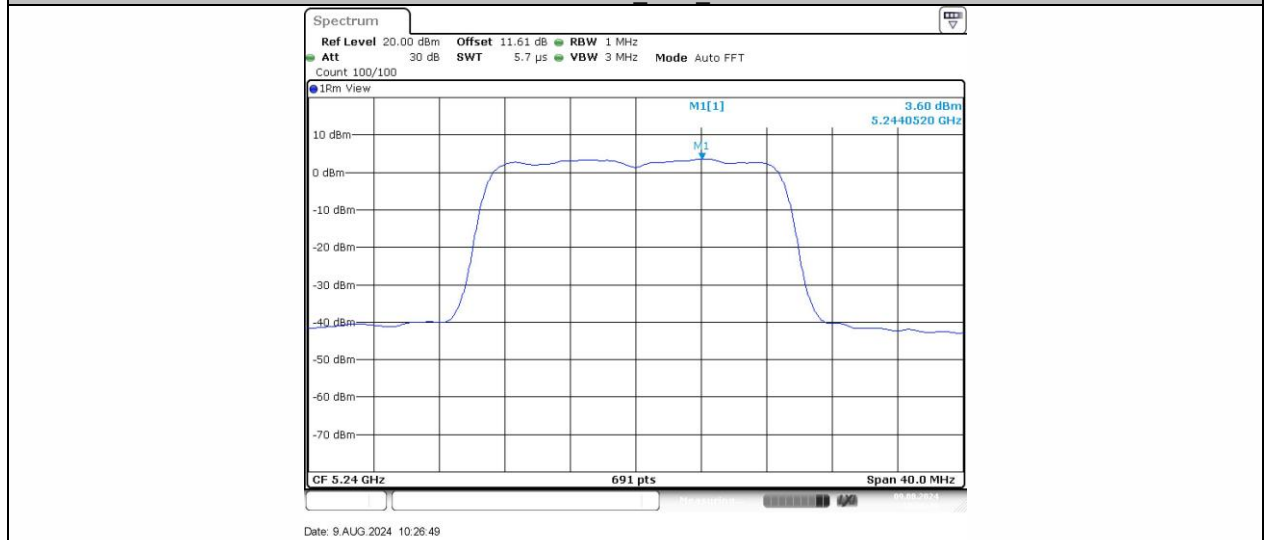
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11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



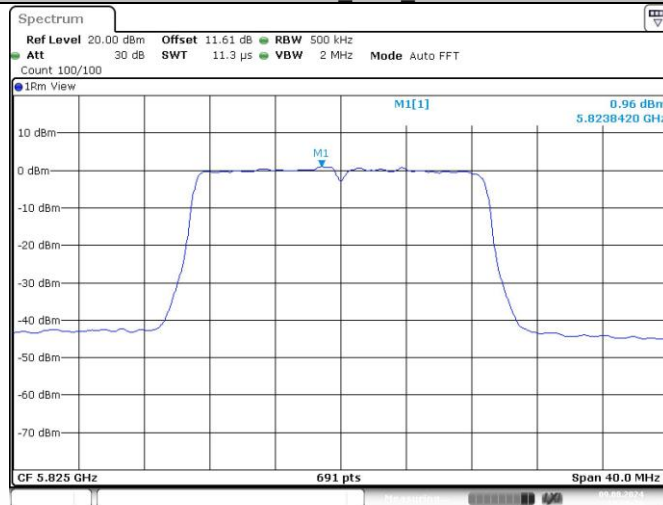
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11N20SISO Ant1 5745



Date: 9 AUG 2024 10:51:49

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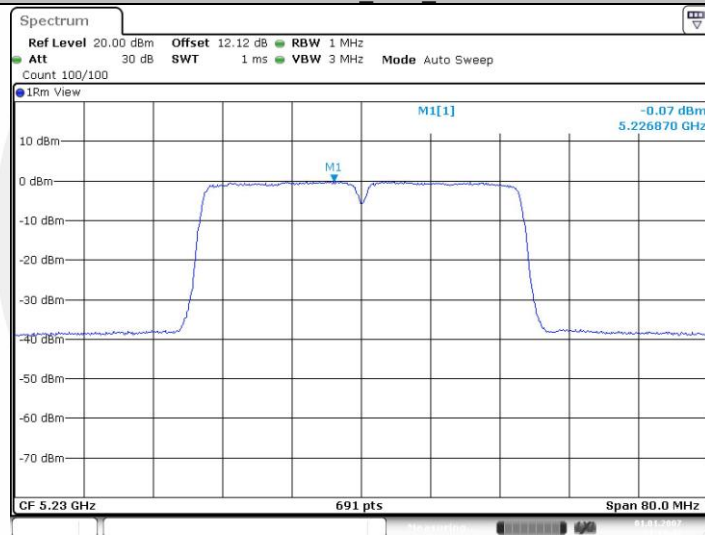


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11N40SISO Ant1 5190

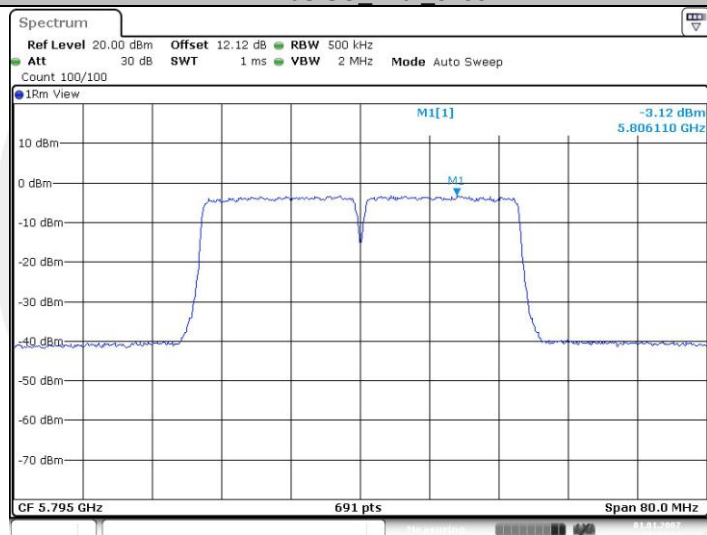


11N40SISO Ant1 5230



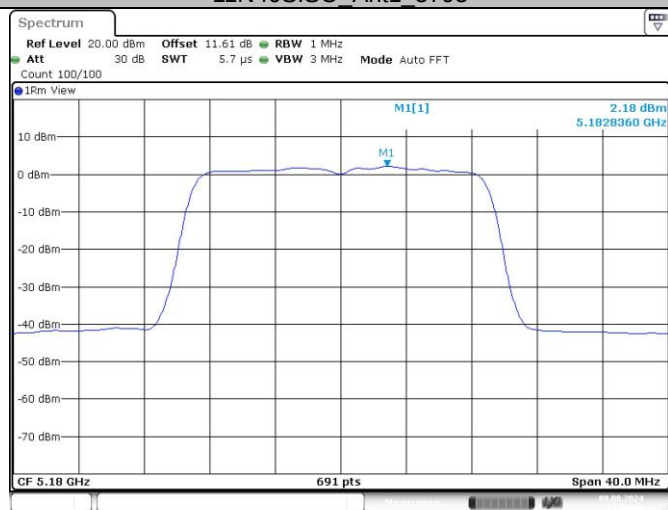
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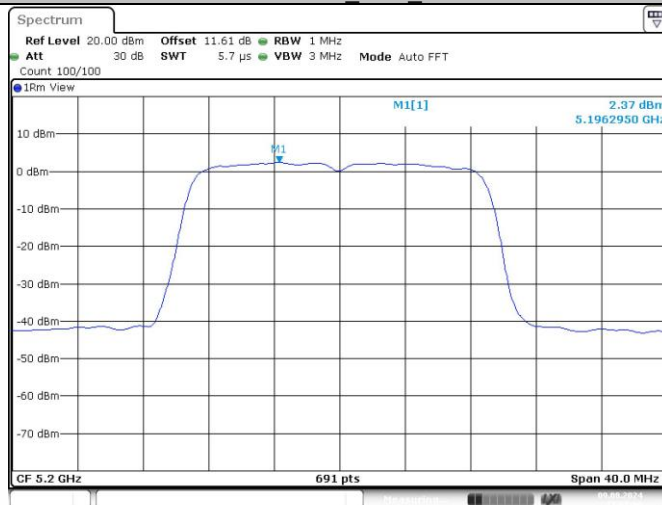
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11N40SISO Ant1 5795



Date: 9.AUG.2024 11:05:59

11AC20SISO_Ant1_5180



Date: 9 AUG 2024 11:07:56

11AC20SISO_Ant1_5200



Date: 9 AUG 2024 11:10:13

11AC20SISO_Ant1_5240



Date: 9 AUG 2024 11:28:50

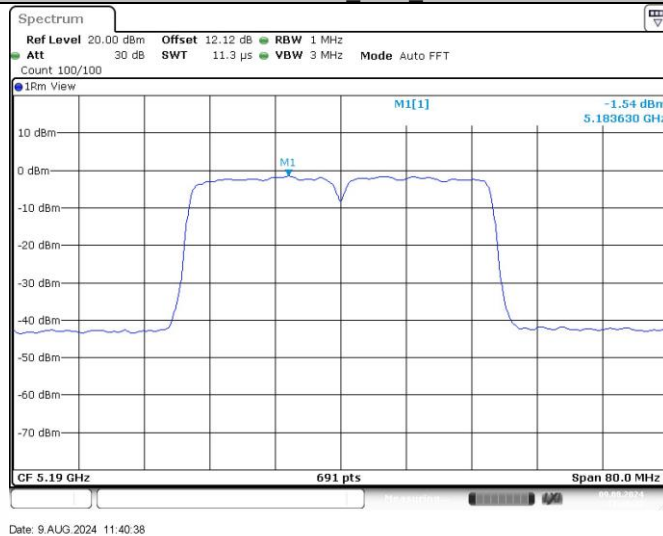
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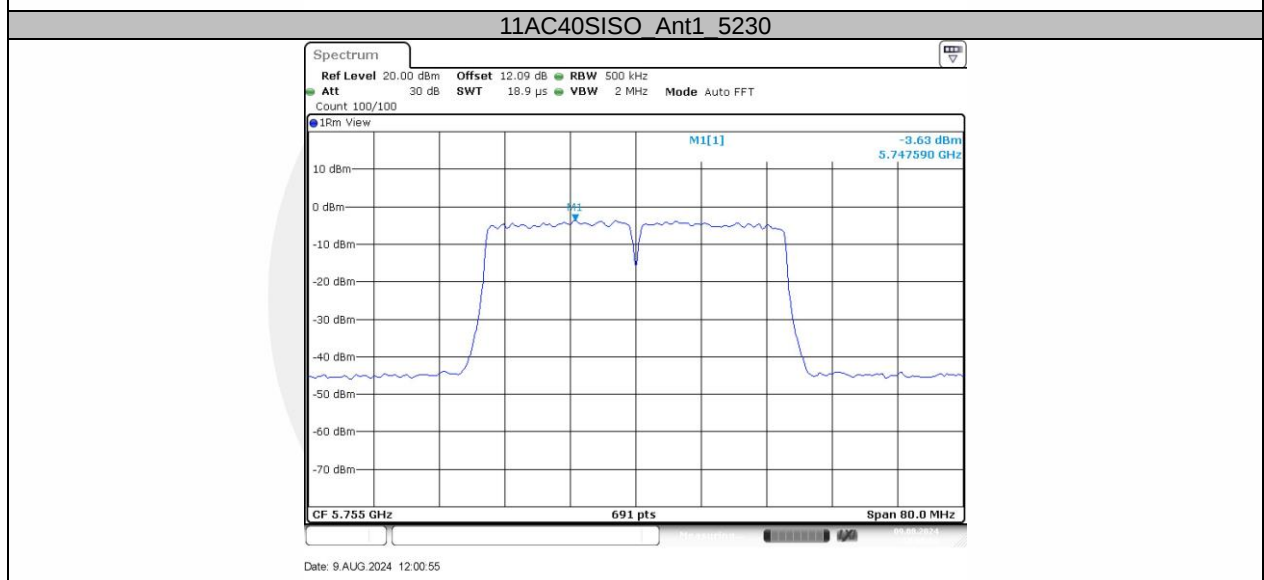
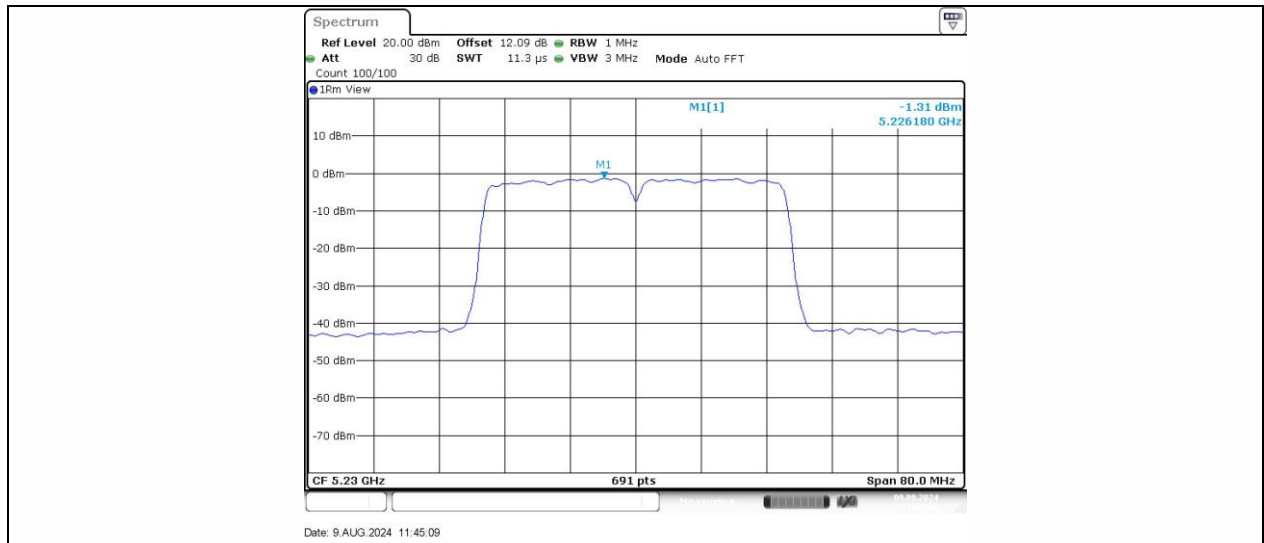
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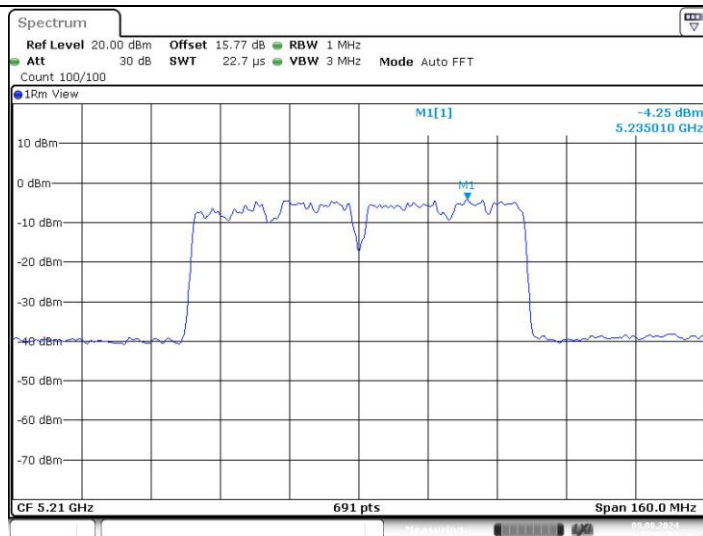


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11AC40SISO_Ant1_5190





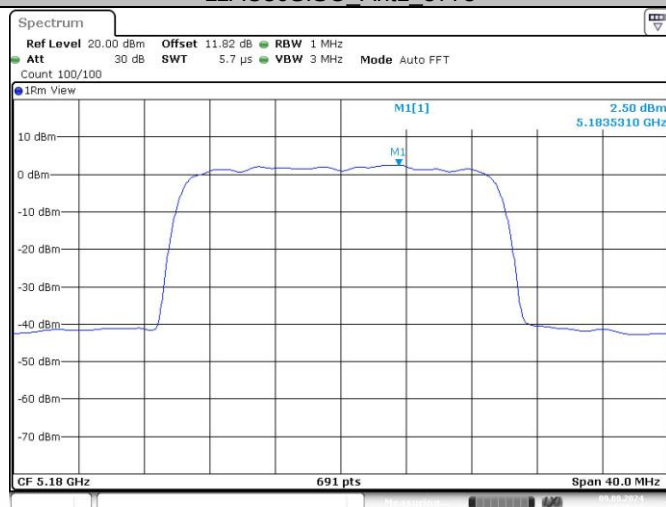
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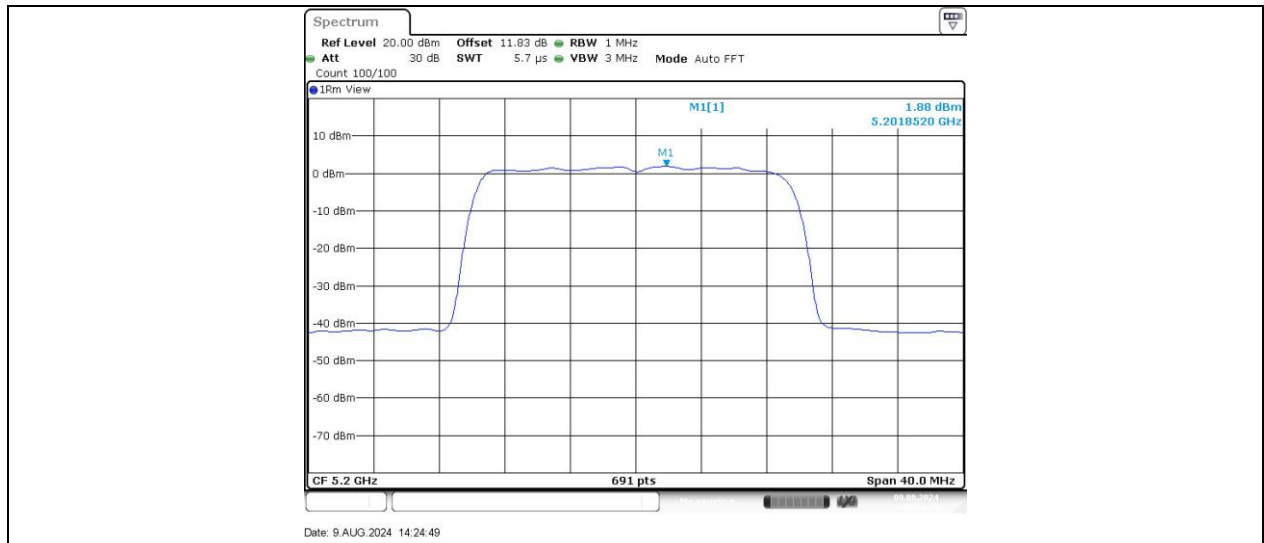
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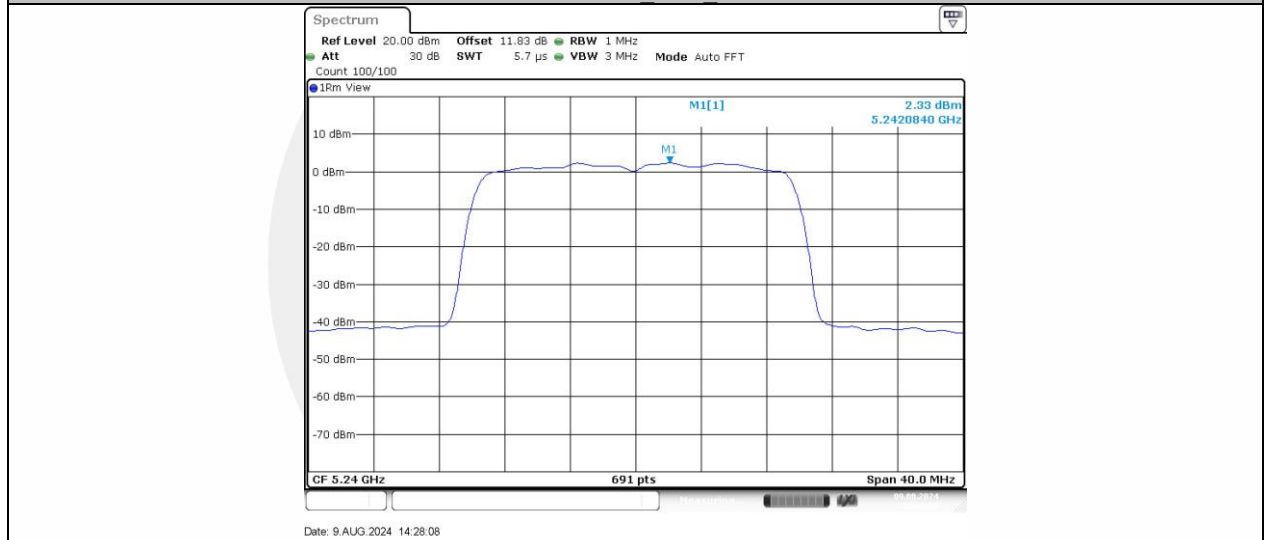


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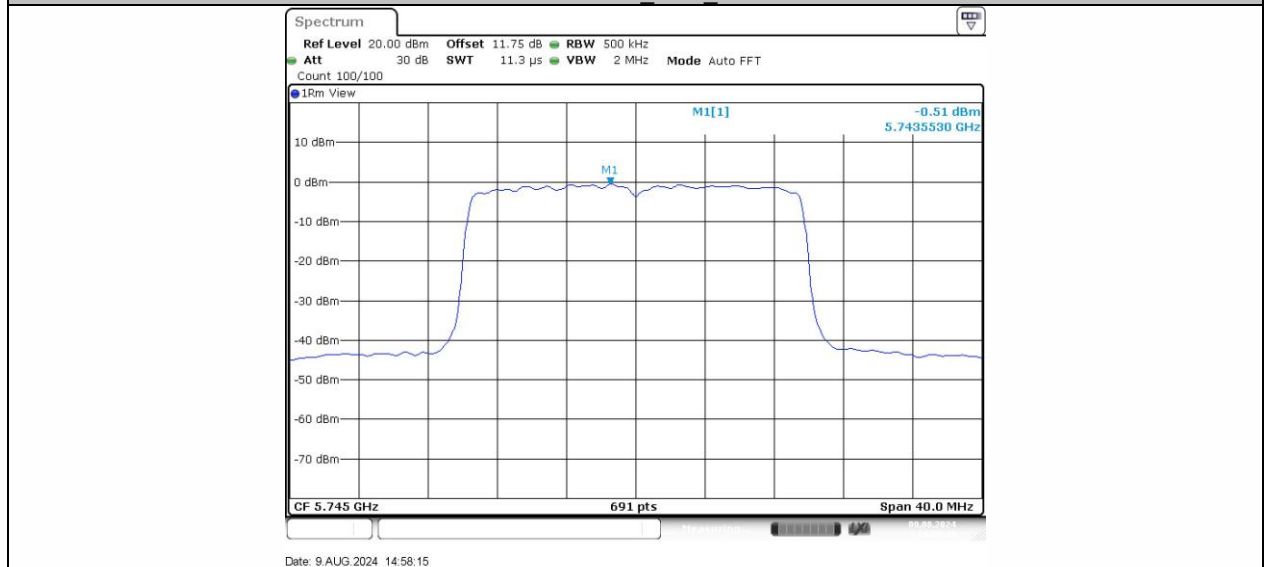
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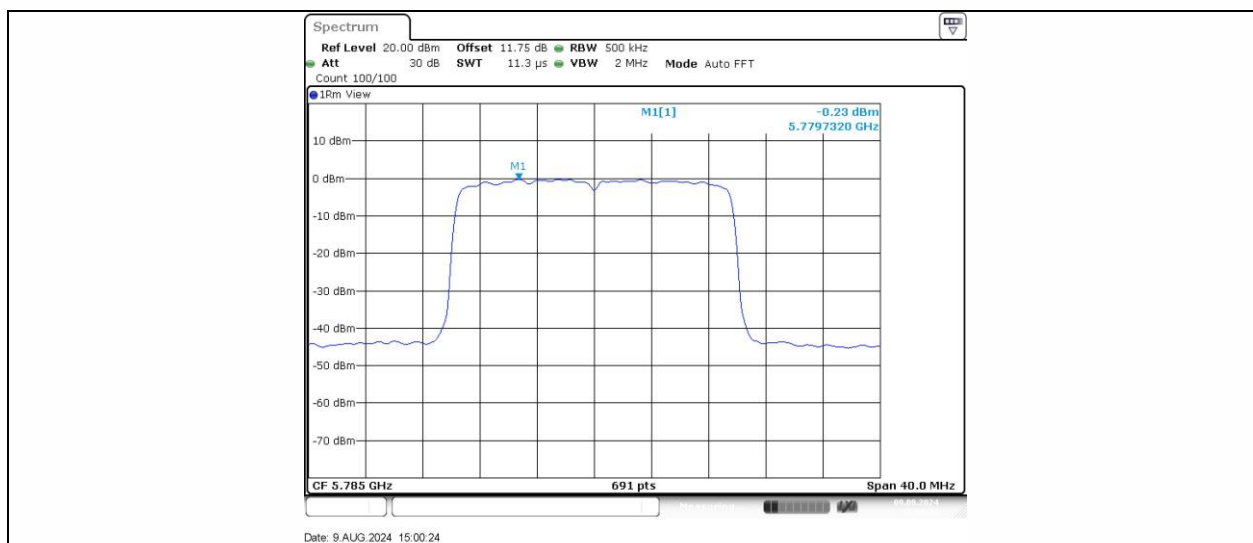
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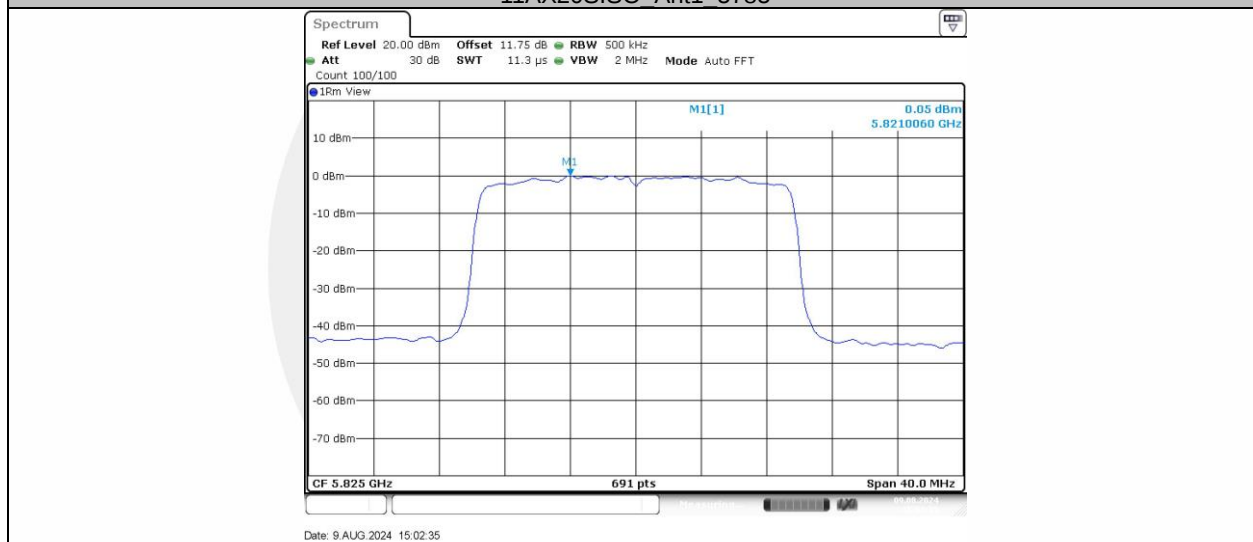
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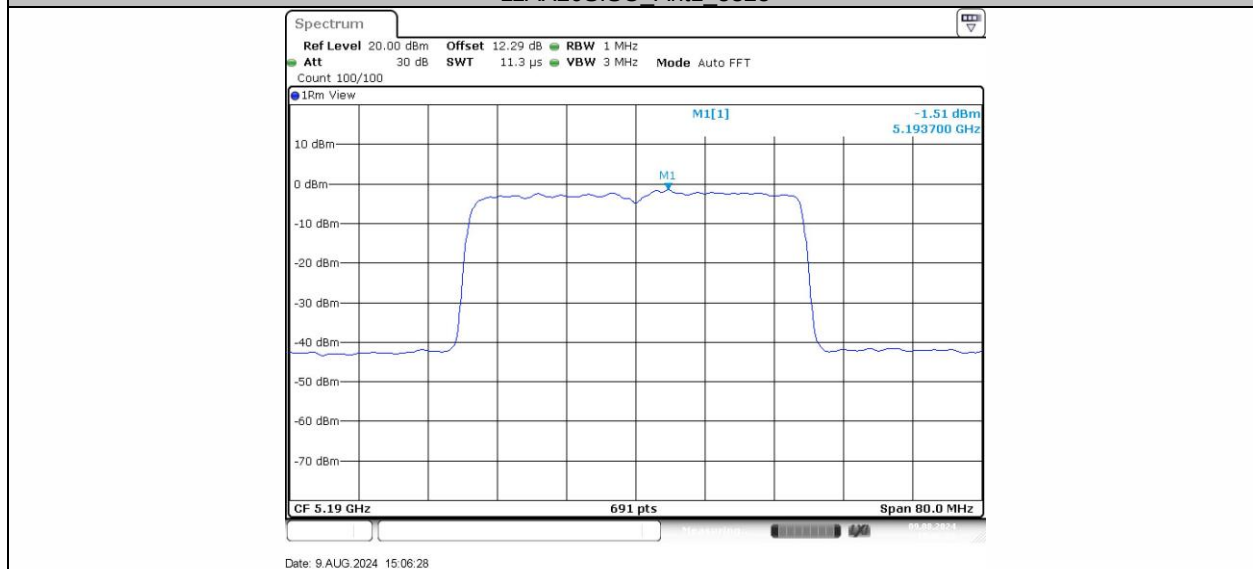
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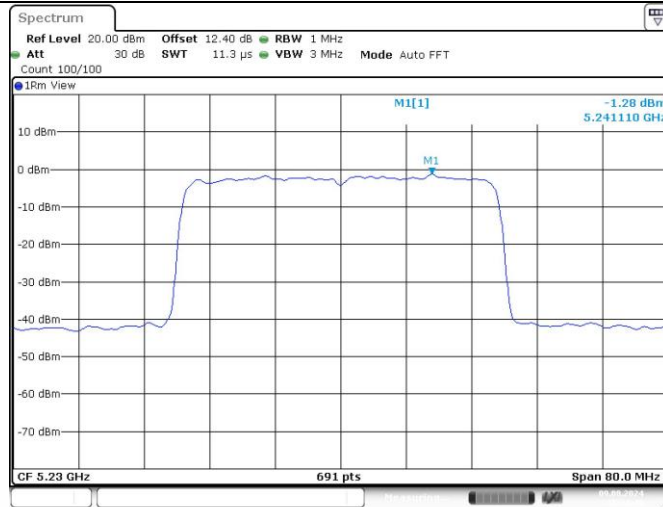
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11AX20SISO Ant1 5825

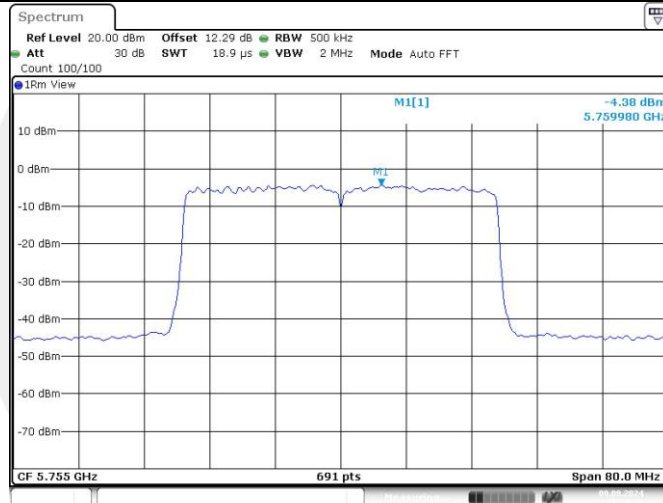


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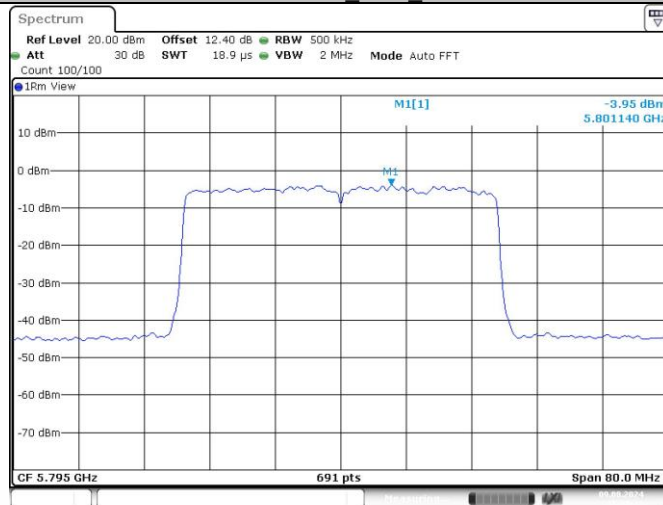
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11AX40SISO_Ant1_5230



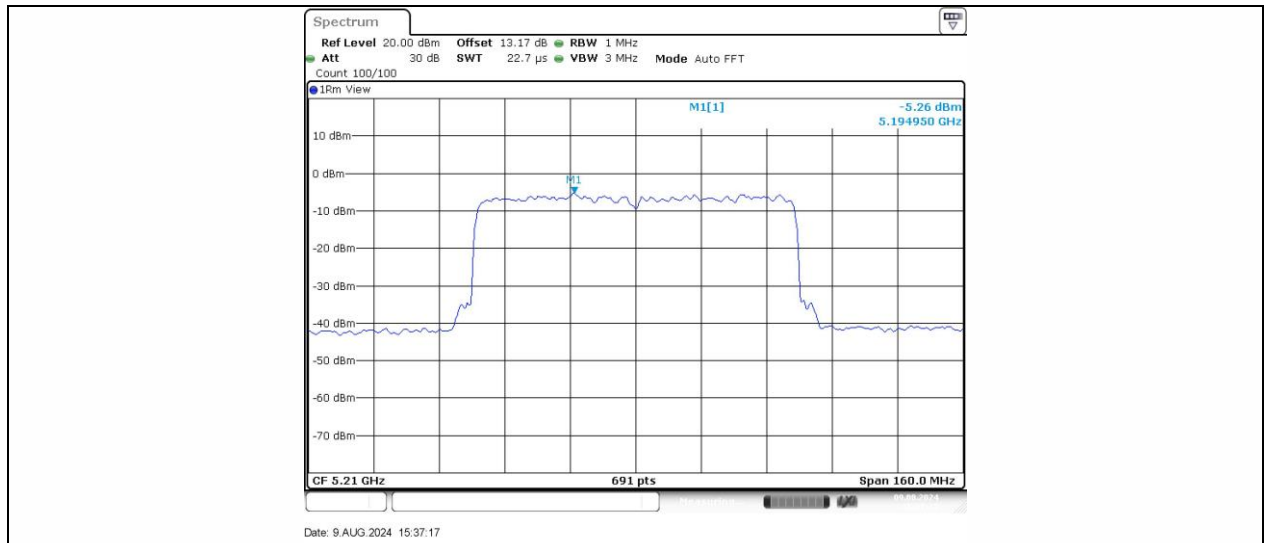
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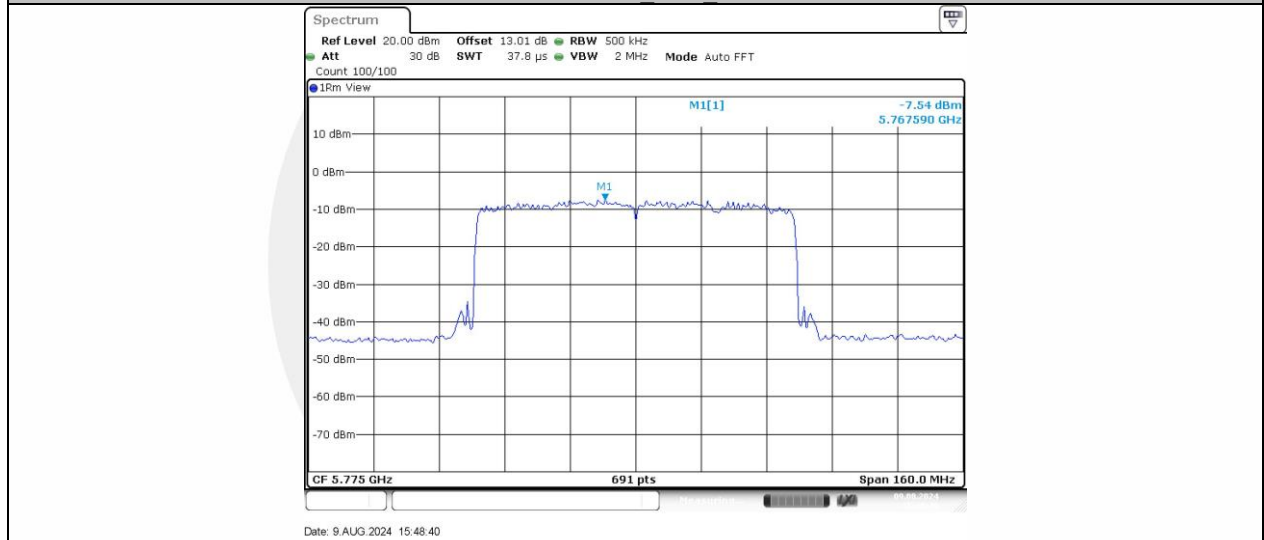


Date: 9 AUG 2024 15:33:12

11AX40SISO_Ant1_5795



11AX80SISO Ant1 5210



11AX80SISO Ant1 5775

8.4 UNDESIRABLE RADIATED SPURIOUS EMISSION

8.4.1 Applicable Standard

According to FCC Part 15.407 (b)
According to 789033 D02 Section II(G)

8.4.2 Conformance Limit

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength (dB $\mu\text{V/m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V/m}$)	300
0.490-1.705	2400/F(KHz)	20 log ($\mu\text{V/m}$)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section, 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

- Remark:
1. Emission level in $\text{dBuV/m} = 20 \log (\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

8.4.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2.

8.4.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set $\text{RBW} = 120\text{kHz}$ for $f < 1\text{GHz}$ (30MHz to 1GHz), 200Hz for $f < 150\text{kHz}$ (9kHz to 150kHz), 9kHz for $< 30\text{MHz}$ (150kHz to 30kHz).

Set the $\text{VBW} > \text{RBW}$.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

$\text{RBW} = 1\text{MHz}$.

$\text{VBW} \geq 3\text{MHz}$.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method VB (Averaging using reduced video bandwidth): Alternative method.

$\text{RBW} = 1\text{MHz}$.

Video bandwidth. • If the EUT is configured to transmit with duty cycle ≥ 98 percent, set $\text{VBW} = \text{RBW}/100$ (i.e., 10kHz) but not less than 10Hz .

• If the EUT duty cycle is < 98 percent, set $\text{VBW} \geq 1/T$, where T is defined in section II.B.1.a).

Video bandwidth mode or display mode • The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to RMS and setting the Average-VBW Type to Power (RMS).

• As an alternative, the analyzer may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some analyzers require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged).

■ Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.4.5 Test Results

Pass

Temperature :	25°C	ATM Pressure:	1011 mbar
Humidity :	60 %	Test Engineer:	CZF

All of the configurations or modes are tested, the data of the worst case is recorded as below.