

- c) Make the following adjustments to the peak value of the spectrum, if applicable:
- 1) If method SA-2 or SA-2A was used, then add $[10 \log (1 / D)]$, where D is the duty cycle, to the peak of the spectrum.
 - 2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7, add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- d) The result is the PPSD.
- e) The procedure in item a) through item c) requires the use of 1 MHz resolution bandwidth to satisfy the 1 MHz measurement bandwidth specified by some regulatory authorities.⁹⁵ This requirement also permits use of resolution bandwidths less than 1 MHz"provided that the measured power is integrated to show the total power over the measurement bandwidth"(i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated over 1 MHz bandwidth, the following adjustments to the procedures apply:
- 1) Set $RBW \geq 1 / T$, where T is defined in 12.2 a).
 - 2) Set $VBW \geq [3 * RBW]$.
 - 3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

10.4 Deviation From Test Standard

No deviation

10.5 Antenna Connected Construction

Please refer to the description of test mode.

10.6 Test Data

Please refer to the following pages.



---Power Spectral Density (Radiation Measurements)

TestMode	Antenna	Channel	EIRP PSD [dBm/MHz]	EIRP PSD Limit [dBm/MHz]	Gain [dBi]	Conducted PSD [dBm/MHz]	Conducted Limit [dBm/MHz]	Verdict
11A	Ant1	5180	6.96	≤10.00	3.35	3.61	≤10.78	PASS
	Ant2	5180	5.75	≤10.00	3.06	2.69	≤10.78	PASS
	Ant1	5200	6.56	≤10.00	3.35	3.21	≤10.78	PASS
	Ant2	5200	6.53	≤10.00	3.06	3.47	≤10.78	PASS
	Ant1	5240	6.76	≤10.00	3.35	3.41	≤10.78	PASS
	Ant2	5240	6.25	≤10.00	3.06	3.19	≤10.78	PASS
	Ant1	5260	5.84	----	3.11	2.73	≤11.00	PASS
	Ant2	5260	6.04	----	2.33	3.71	≤11.00	PASS
	Ant1	5280	5.2	----	3.11	2.09	≤11.00	PASS
	Ant2	5280	6.44	----	2.33	4.11	≤11.00	PASS
	Ant1	5320	5.31	----	3.11	2.2	≤11.00	PASS
	Ant2	5320	6.99	----	2.33	4.66	≤11.00	PASS
	Ant1	5500	6.02	----	1.97	4.05	≤11.00	PASS
	Ant2	5500	6.61	----	2.24	4.37	≤11.00	PASS
	Ant1	5580	5.13	----	1.97	3.16	≤11.00	PASS
	Ant2	5580	5.75	----	2.24	3.51	≤11.00	PASS
	Ant1	5700	3.94	----	1.97	1.97	≤11.00	PASS
	Ant2	5700	4.96	----	2.24	2.72	≤11.00	PASS
	Ant1	5720_UNII-2C	6.38	----	1.97	4.41	≤11.00	PASS
	Ant2	5720_UNII-2C	5.19	----	2.24	2.95	≤11.00	PASS
11N20MIMO	Ant1&Ant.2	5180	6.62	≤10.00	6.22	0.4	≤10.78	PASS
		5200	5.53	≤10.00	6.22	-0.69	≤10.78	PASS
		5240	5.75	≤10.00	6.22	-0.47	≤10.78	PASS
		5260	5.47	----	5.74	-0.27	≤11.00	PASS
		5280	5.38	----	5.74	-0.36	≤11.00	PASS
		5320	5.13	----	5.74	-0.61	≤11.00	PASS
		5500	6.01	----	5.12	0.89	≤11.00	PASS
		5580	5.16	----	5.12	0.04	≤11.00	PASS
		5700	5.22	----	5.12	0.1	≤11.00	PASS
		5720_UNII-2C	4.58	----	5.12	-0.54	≤11.00	PASS
11N40MIMO	Ant1&Ant.2	5190	1.47	≤10.00	6.22	-4.75	≤10.78	PASS
		5230	1.27	≤10.00	6.22	-4.95	≤10.78	PASS
		5270	0.8	----	5.74	-4.94	≤11.00	PASS
		5310	0.98	----	5.74	-4.76	≤11.00	PASS
		5510	0.5	----	5.12	-4.62	≤11.00	PASS
		5550	-0.01	----	5.12	-5.13	≤11.00	PASS
		5670	-0.35	----	5.12	-5.47	≤11.00	PASS
		5710_UNII-2C	-0.22	----	5.12	-5.34	≤11.00	PASS
11AC20MIMO	Ant1&Ant.2	5180	6.67	≤10.00	6.22	0.45	≤10.78	PASS
		5200	4.75	≤10.00	6.22	-1.47	≤10.78	PASS
		5240	4.86	≤10.00	6.22	-1.36	≤10.78	PASS
		5260	3.49	----	5.74	-2.25	≤11.00	PASS
		5280	5.13	----	5.74	-0.61	≤11.00	PASS
		5320	3.67	----	5.74	-2.07	≤11.00	PASS
		5500	4.16	----	5.12	-0.96	≤11.00	PASS
		5580	3.77	----	5.12	-1.35	≤11.00	PASS
		5700	3.66	----	5.12	-1.46	≤11.00	PASS
		5720_UNII-2C	5.02	----	5.12	-0.1	≤11.00	PASS
11AC40MIMO	Ant1&Ant.2	5190	2.16	≤10.00	6.22	-4.06	≤10.78	PASS
		5230	1.74	≤10.00	6.22	-4.48	≤10.78	PASS
		5270	0.77	----	5.74	-4.97	≤11.00	PASS
		5310	1.94	----	5.74	-3.8	≤11.00	PASS
		5510	3.27	----	5.12	-1.85	≤11.00	PASS
		5550	1.82	----	5.12	-3.3	≤11.00	PASS
		5670	-0.26	----	5.12	-5.38	≤11.00	PASS



		5710_UNII-2C	-0.07	----	5.12	-5.19	≤11.00	PASS
		5710_UNII-3	-5.23	----	5.25	-10.48	≤30.00	PASS
11AC80MIMO	Ant1&Ant.2	5210	-0.51	≤10.00	6.22	-6.73	≤10.78	PASS
		5290	-2.45	----	5.74	-8.19	≤11.00	PASS
		5530	-1.16	----	5.12	-6.28	≤11.00	PASS
		5690_UNII-2C	-1.27	----	5.12	-6.39	≤11.00	PASS
11AX20MIMO	Ant1&Ant.2	5180	6.71	≤10.00	6.22	0.49	≤10.78	PASS
		5200	5.83	≤10.00	6.22	-0.39	≤10.78	PASS
		5240	5.3	≤10.00	6.22	-0.92	≤10.78	PASS
		5260	5.08	----	5.74	-0.66	≤11.00	PASS
		5280	4.39	----	5.74	-1.35	≤11.00	PASS
		5320	3.32	----	5.74	-2.42	≤11.00	PASS
		5500	4.48	----	5.12	-0.64	≤11.00	PASS
		5580	4.02	----	5.12	-1.10	≤11.00	PASS
		5700	4.03	----	5.12	-1.09	≤11.00	PASS
		5720_UNII-2C	4.16	----	5.12	-0.96	≤11.00	PASS
11AX40MIMO	Ant1&Ant.2	5190	2.52	≤10.00	6.22	-3.70	≤10.78	PASS
		5230	2.06	≤10.00	6.22	-4.16	≤10.78	PASS
		5270	1.74	----	5.74	-4.0	≤11.00	PASS
		5310	2.5	----	5.74	-3.24	≤11.00	PASS
		5510	2.08	----	5.12	-3.04	≤11.00	PASS
		5550	2.06	----	5.12	-3.06	≤11.00	PASS
		5670	1.03	----	5.12	-4.09	≤11.00	PASS
				5710_UNII-2C	-0.13	----	5.12	-5.25
11AX80MIMO	Ant1&Ant.2	5210	-1.27	≤10.00	6.22	-7.49	≤10.78	PASS
		5290	-1.12	----	5.74	-6.86	≤11.00	PASS
		5530	-1.02	----	5.12	-6.14	≤11.00	PASS
		5690_UNII-2C	-2.63	----	5.12	-7.75	≤11.00	PASS
Note: The EUT incorporates a MIMO function. Physically, the EUT provides three antennas for transmitting and receiving. When ANT. 1 and ANT. 2 transmitting simultaneously, For U-NII-1 the Directional Gain=6.22dBi>6dBi. So $PSD_{out} = PSD_{limit}-(G-6)=10.78dBm$								
Note: Conducted PSD=E.I.R.P. PSD-Gain; Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$								



TestMode	Antenna	Channel	EIRP PSD [dBm/500kHz]	Gain [dBi]	Conducted PSD [dBm/500kHz]	Conducted Limit [dBm/500kHz]	Verdict
11A	Ant1	5720_UNII-3	1.31	2.26	-0.95	≤30	PASS
	Ant2	5720_UNII-3	1.22	2.22	-1.00	≤30	PASS
	Ant1	5745	3.85	2.26	1.59	≤30	PASS
	Ant2	5745	3.45	2.22	1.23	≤30	PASS
	Ant1	5785	2.95	2.26	0.69	≤30	PASS
	Ant2	5785	3.36	2.22	1.14	≤30	PASS
	Ant1	5825	2.54	2.26	0.28	≤30	PASS
	Ant2	5825	2.65	2.22	0.43	≤30	PASS
11N20MIMO	Ant1&Ant.2	5720_UNII-3	1.18	5.25	-4.07	≤30	PASS
		5745	2.53	5.25	-2.72	≤30	PASS
		5785	1.21	5.25	-4.04	≤30	PASS
		5825	0.89	5.25	-4.36	≤30	PASS
11N40MIMO	Ant1&Ant.2	5710_UNII-3	-5.27	5.25	-10.52	≤30	PASS
		5755	-0.32	5.25	-5.57	≤30	PASS
		5795	-1.83	5.25	-7.08	≤30	PASS
11AC20MIMO	Ant1&Ant.2	5720_UNII-3	0.67	5.25	-4.58	≤30	PASS
		5745	2.75	5.25	-2.50	≤30	PASS
		5785	0.86	5.25	-4.39	≤30	PASS
		5825	1.52	5.25	-3.73	≤30	PASS
11AC40MIMO	Ant1&Ant.2	5710_UNII-3	-5.23	5.25	-10.48	≤30	PASS
		5755	-0.79	5.25	-6.04	≤30	PASS
		5795	-1.03	5.25	-6.28	≤30	PASS
11AC80MIMO	Ant1&Ant.2	5690_UNII-3	-4.96	5.25	-10.21	≤30	PASS
		5775	-3.51	5.25	-8.76	≤30	PASS
11AX20MIMO	Ant1&Ant.2	5720_UNII-3	0.81	5.25	-4.44	≤30	PASS
		5745	2.71	5.25	-2.54	≤30	PASS
		5785	1.54	5.25	-3.71	≤30	PASS
		5825	1.54	5.25	-3.71	≤30	PASS
11AX40MIMO	Ant1&Ant.2	5710_UNII-3	-5.29	5.25	-10.54	≤30	PASS
		5755	-1.4	5.25	-6.65	≤30	PASS
		5795	-1.07	5.25	-6.32	≤30	PASS
11AX80MIMO	Ant1&Ant.2	5690_UNII-3	-4.78	5.25	-10.03	≤30	PASS
		5775	-0.42	5.25	-5.67	≤30	PASS

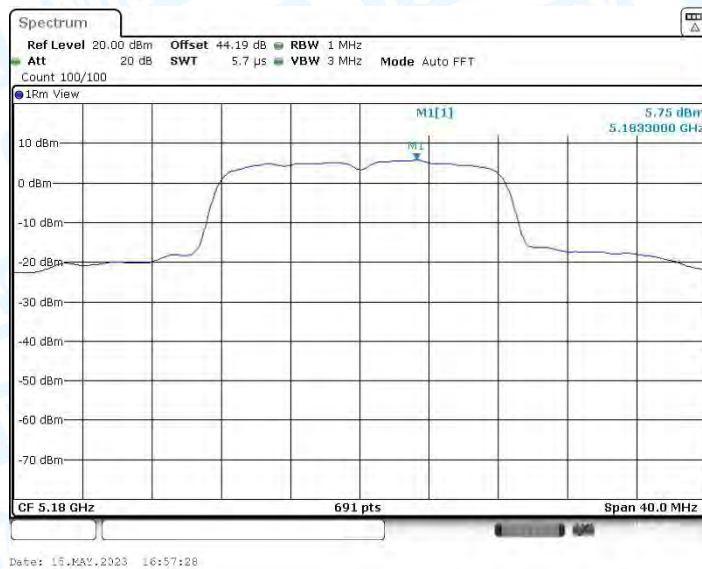
Note: The EUT incorporates a MIMO function. Physically, the EUT provides three antennas for transmitting and receiving. When ANT. 1 and ANT. 2 transmitting simultaneously, the Directional Gain < 6dBi.
 So $PSD_{out} = PSD_{limit}$

Note: Conducted PSD=E.I.R.P. PSD-Gain; Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$

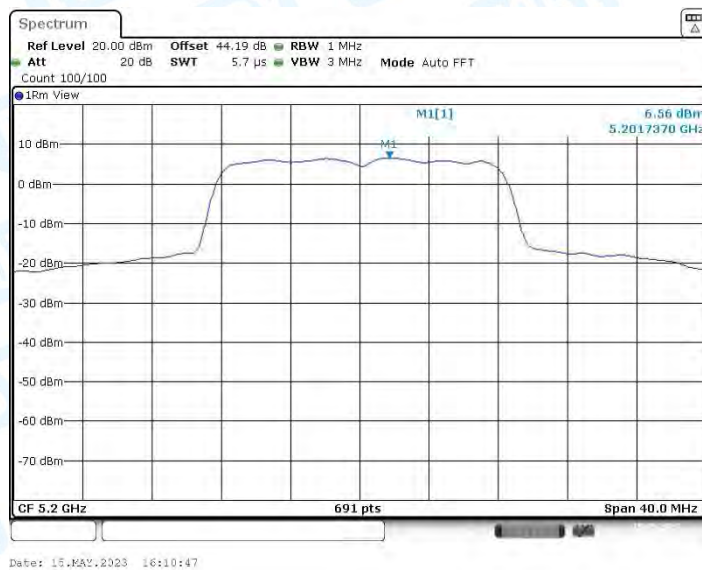




11A_Ant1_5180

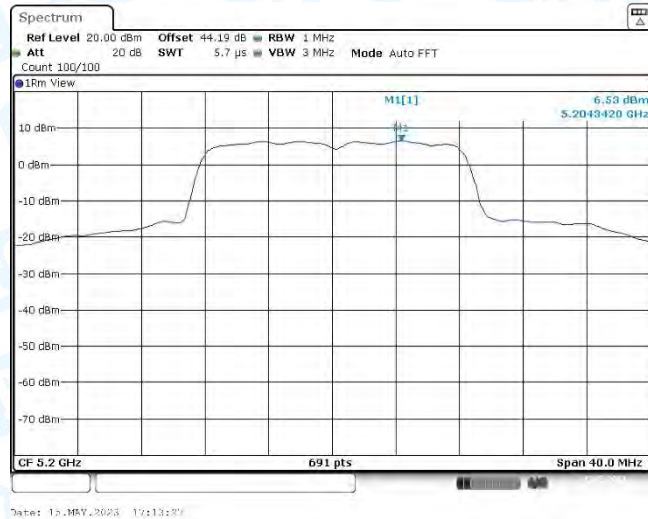


11A_Ant2_5180

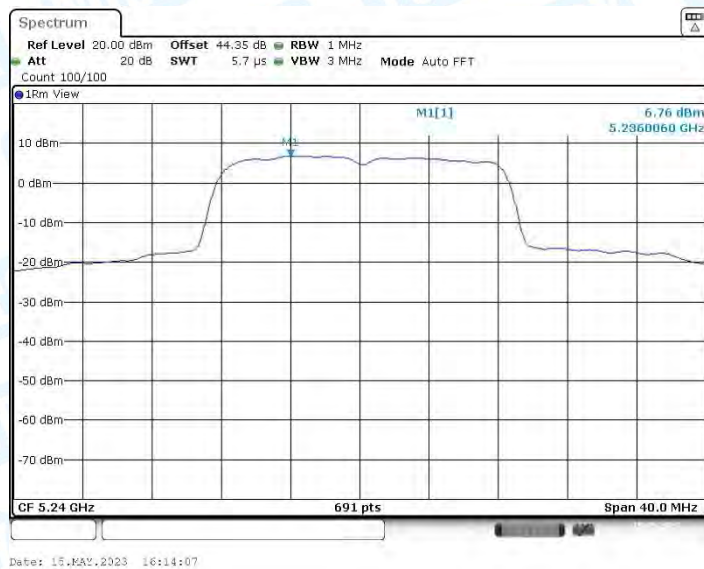


11A_Ant1_5200





11A_Ant2_5200

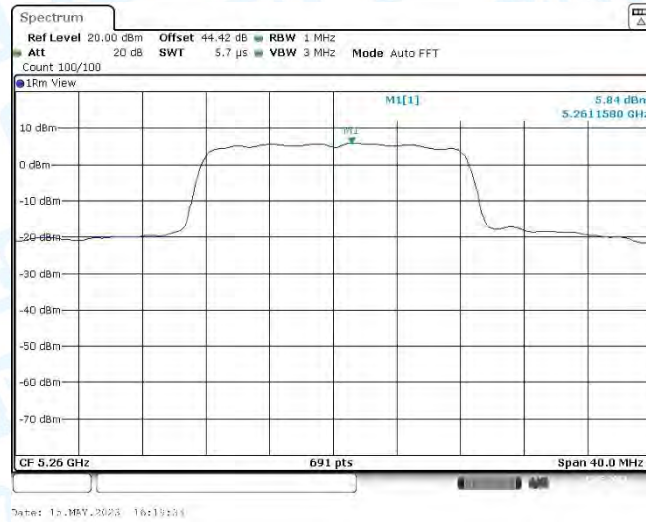


11A_Ant1_5240

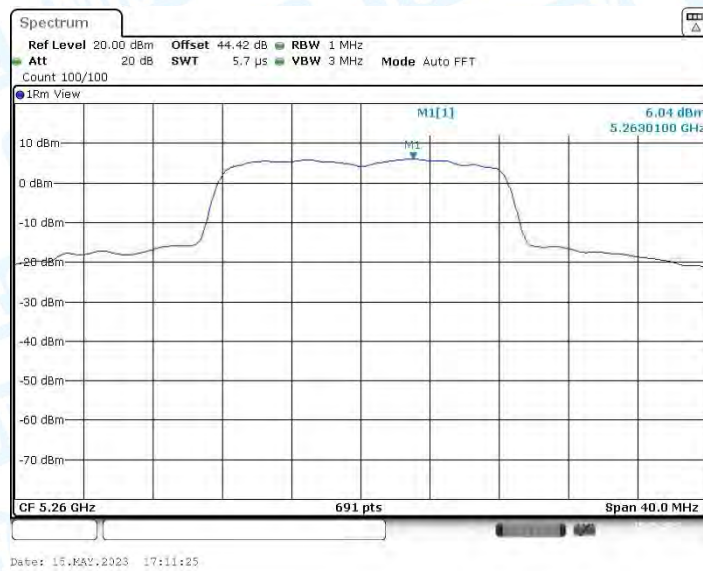


11A_Ant2_5240

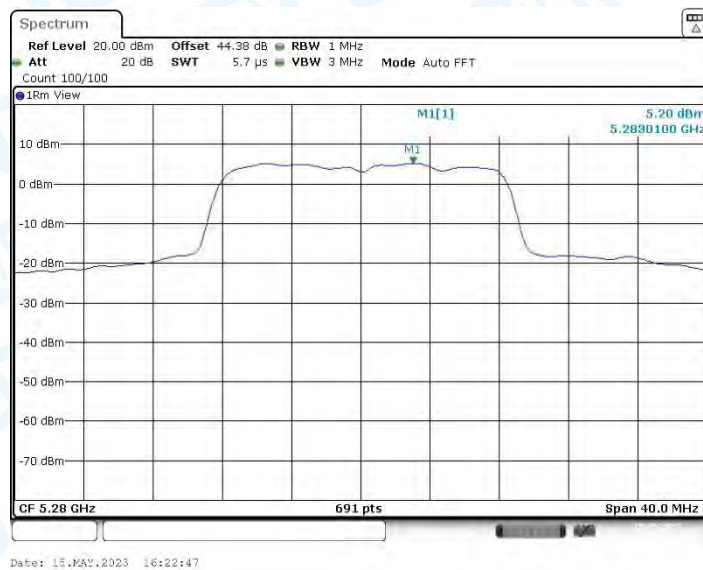




11A_Ant1_5260

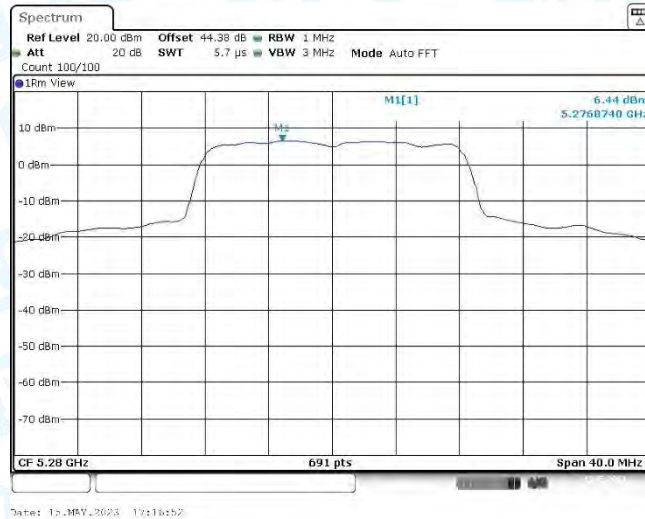


11A_Ant2_5260

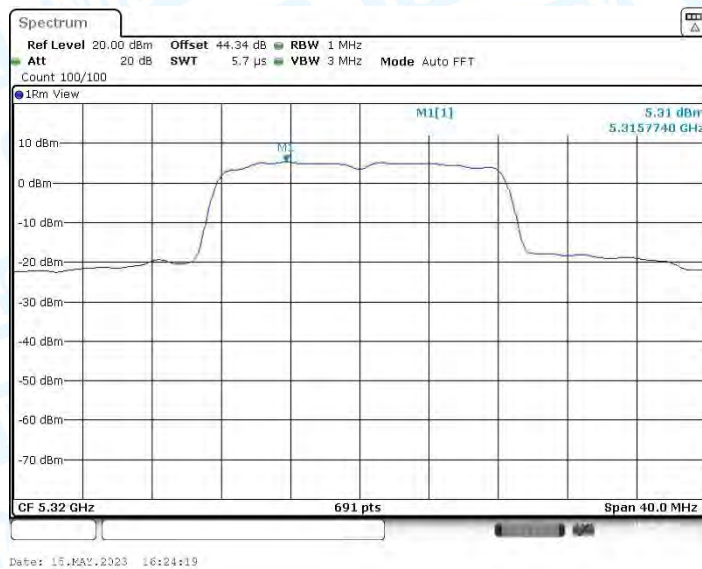


11A_Ant1_5280

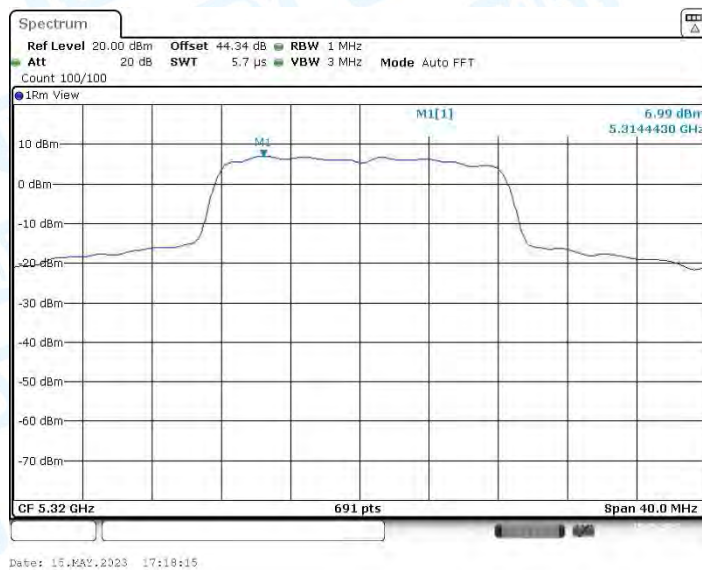




11A_Ant2_5280

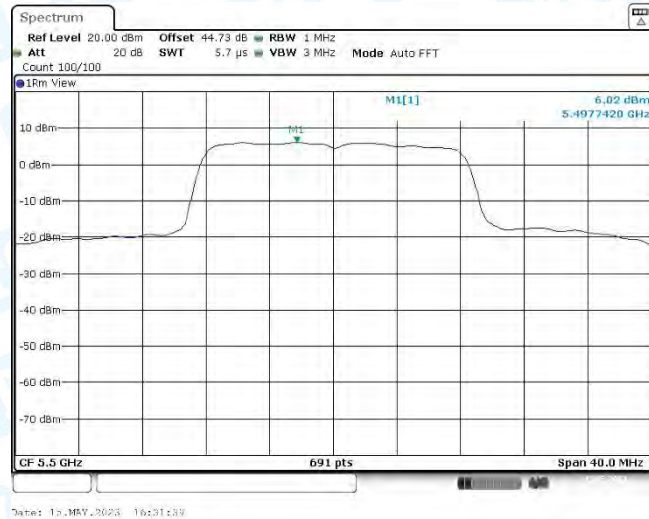


11A_Ant1_5320

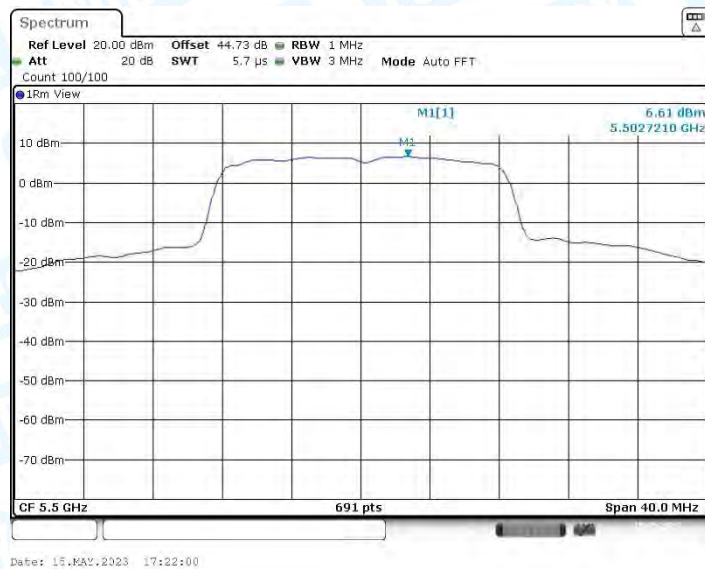


11A_Ant2_5320

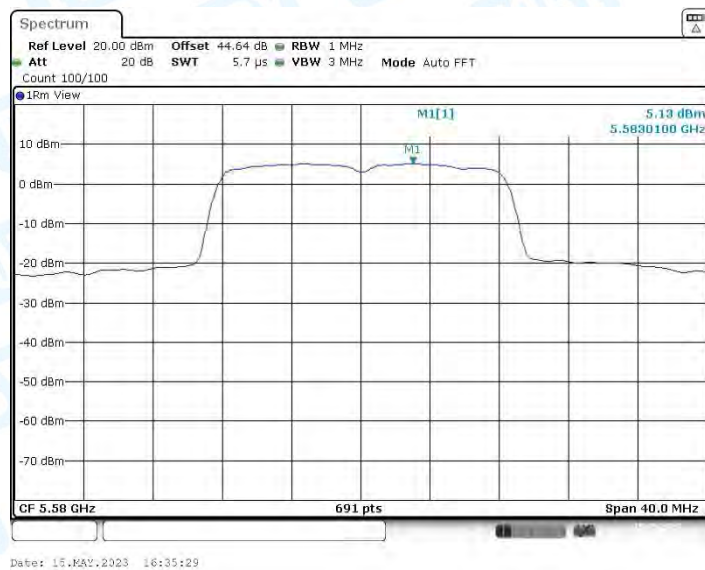




11A_Ant1_5500

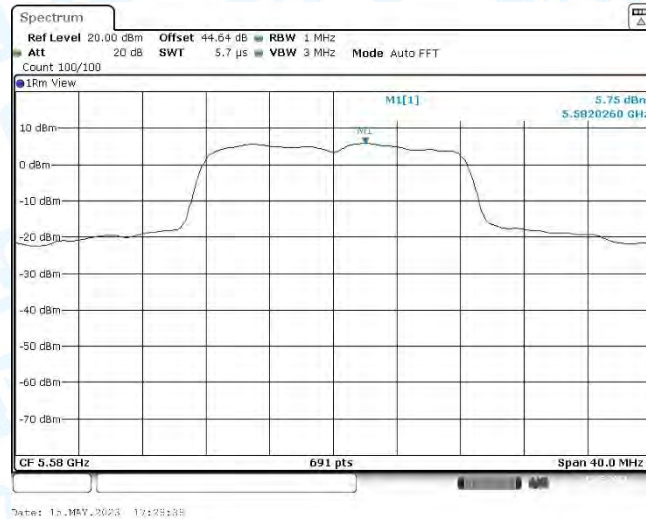


11A_Ant2_5500



11A_Ant1_5580

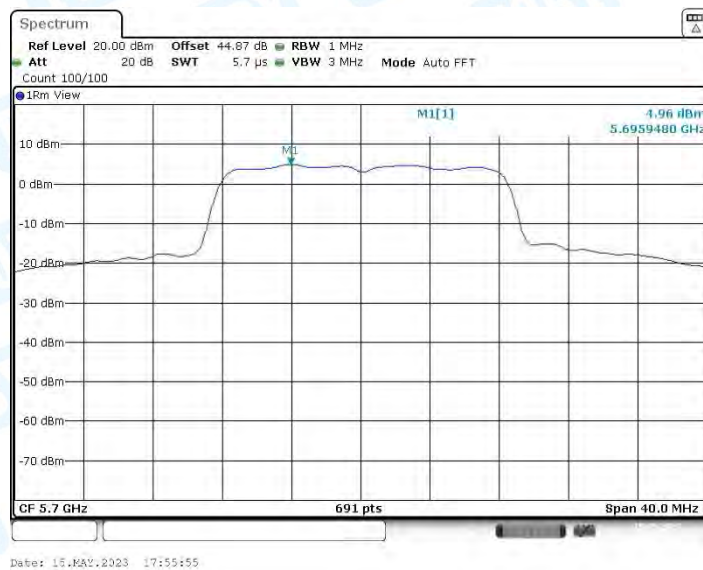




11A_Ant2_5580

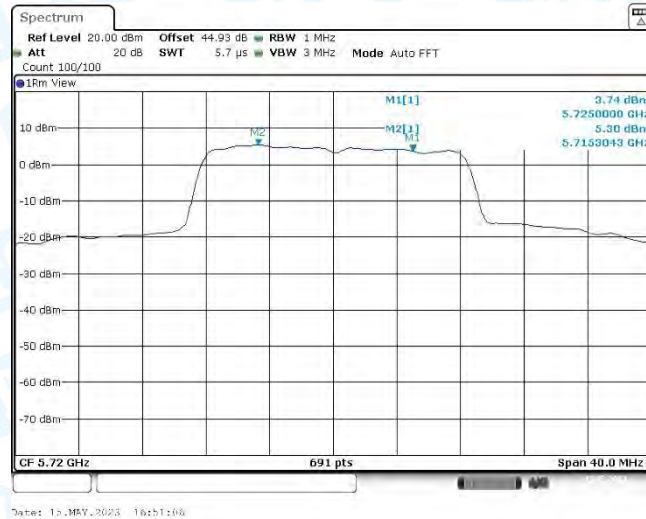


11A_Ant1_5700

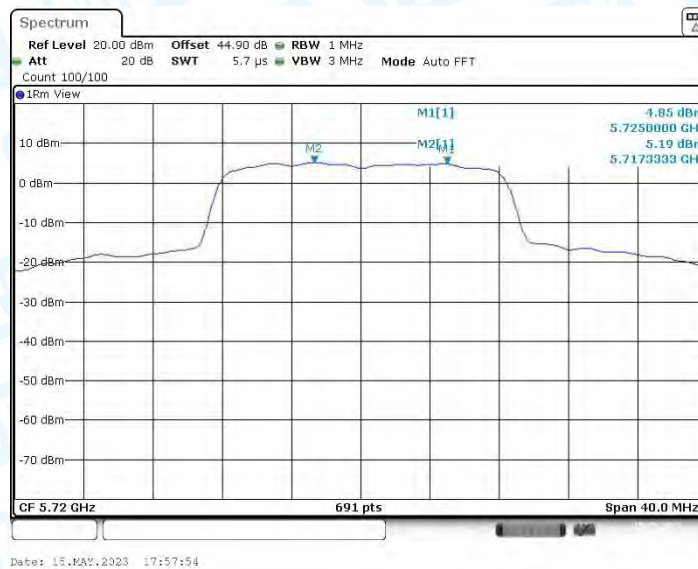


11A_Ant2_5700

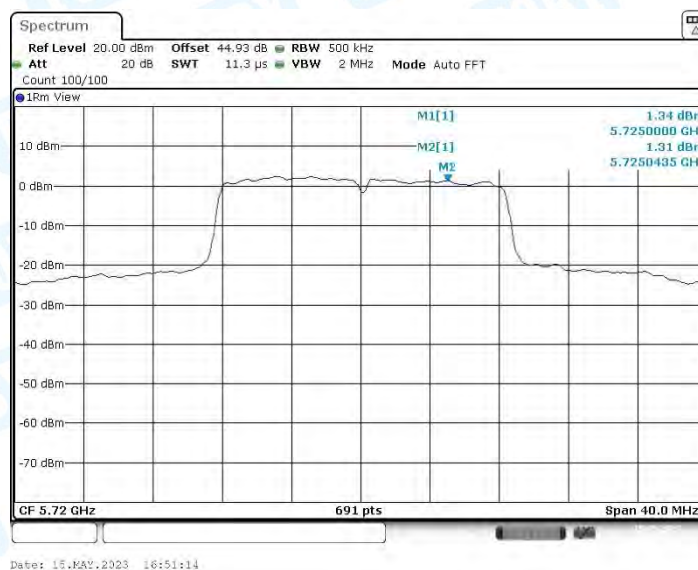




11A_Ant1_5720_UNII-2C

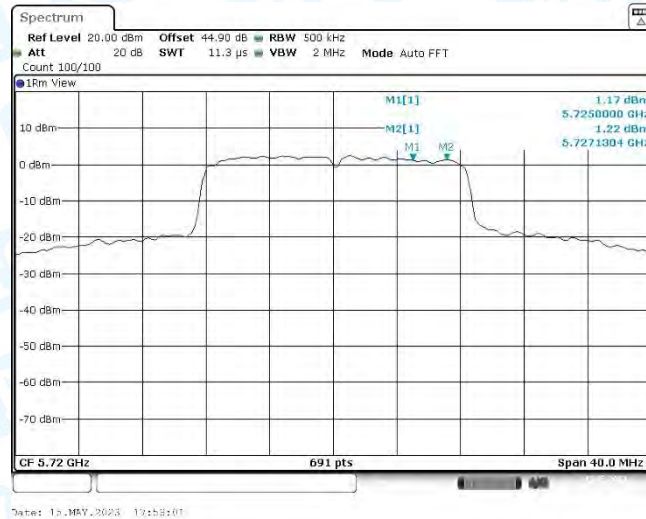


11A_Ant2_5720_UNII-2C



11A_Ant1_5720_UNII-3

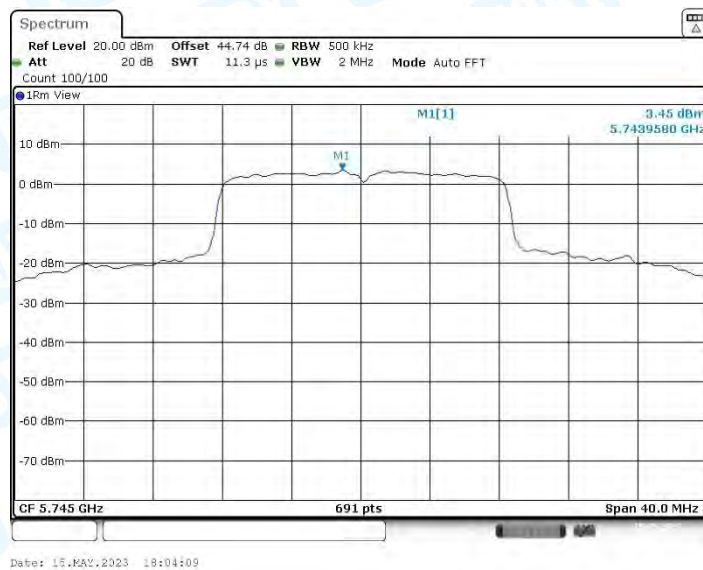




11A_Ant2_5720_UNII-3

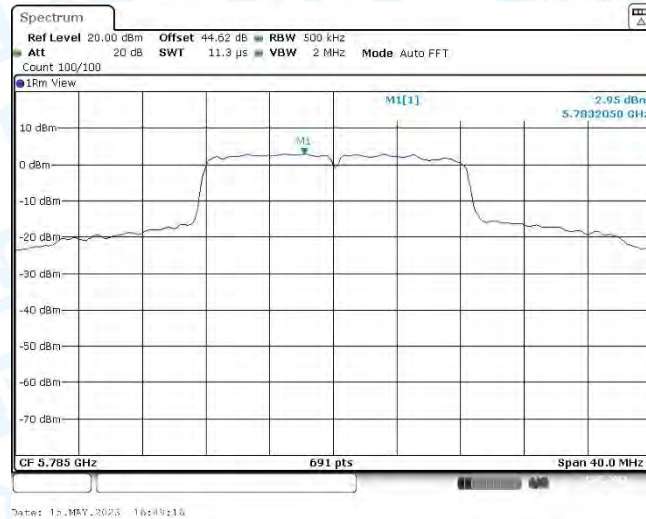


11A_Ant1_5745

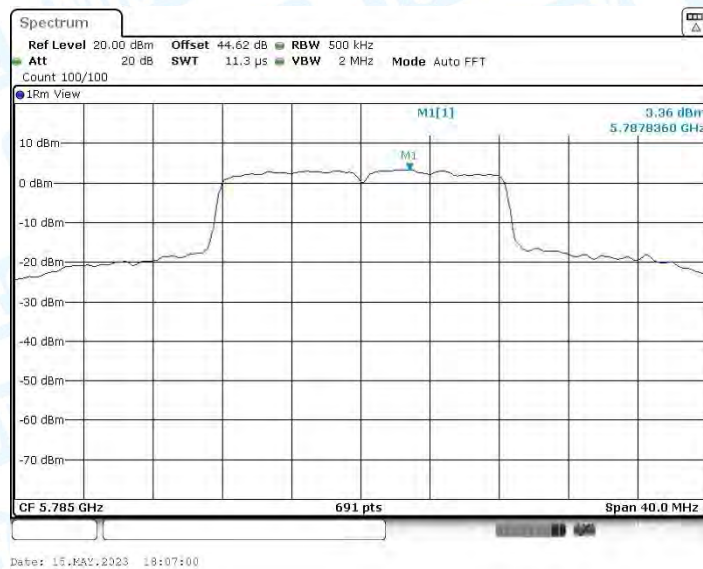


11A_Ant2_5745

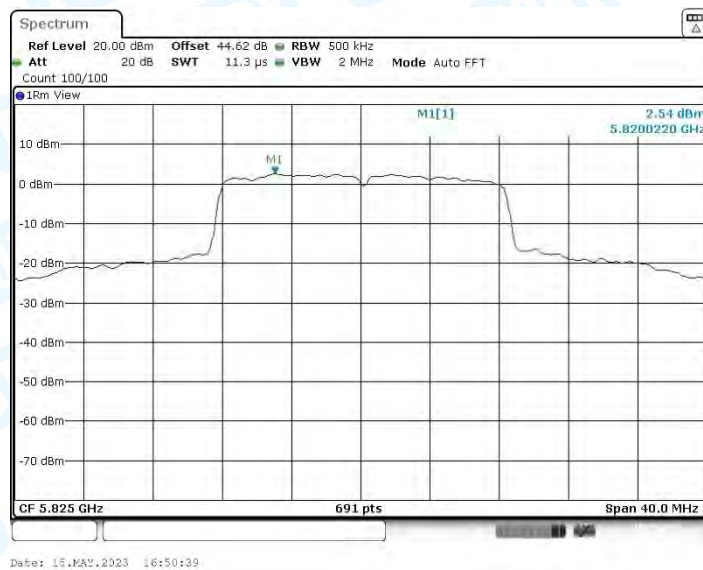




11A_Ant1_5785

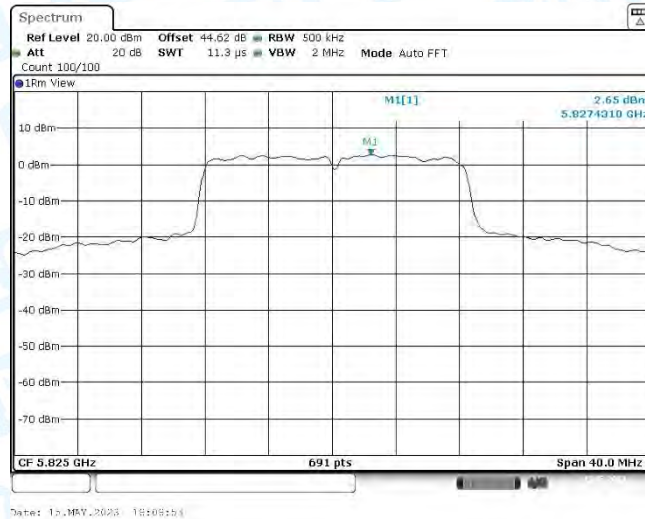


11A_Ant2_5785

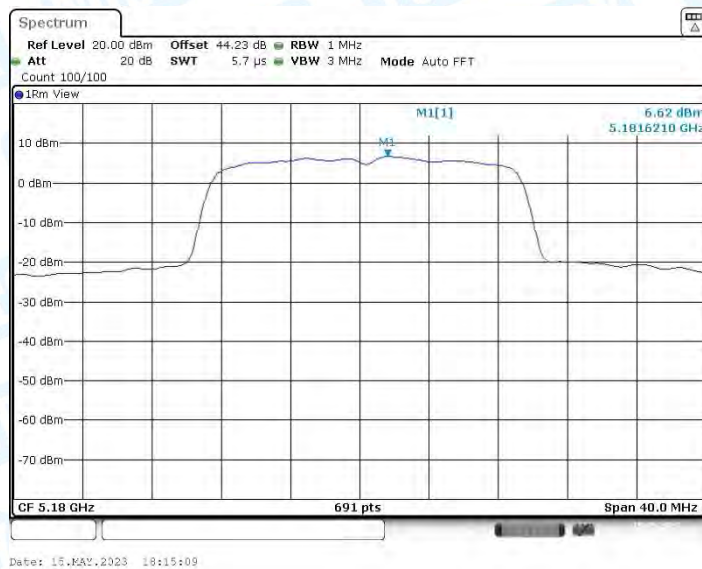


11A_Ant1_5825

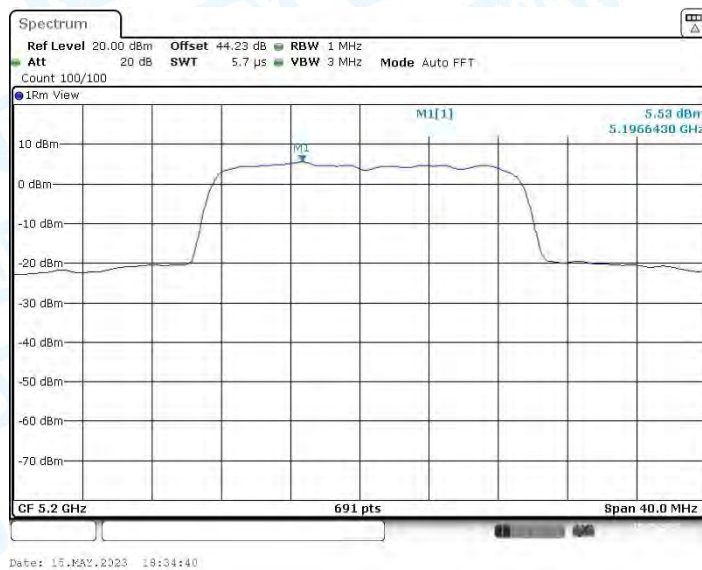




11A_Ant2_5825

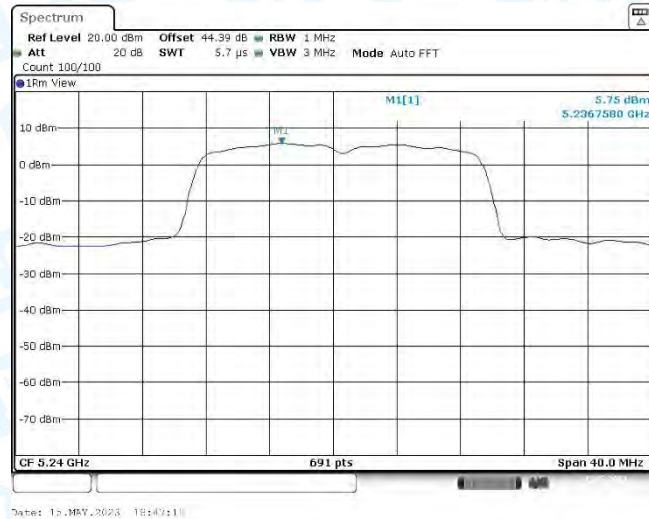


11N20MIMO_Ant1&Ant.2_5180

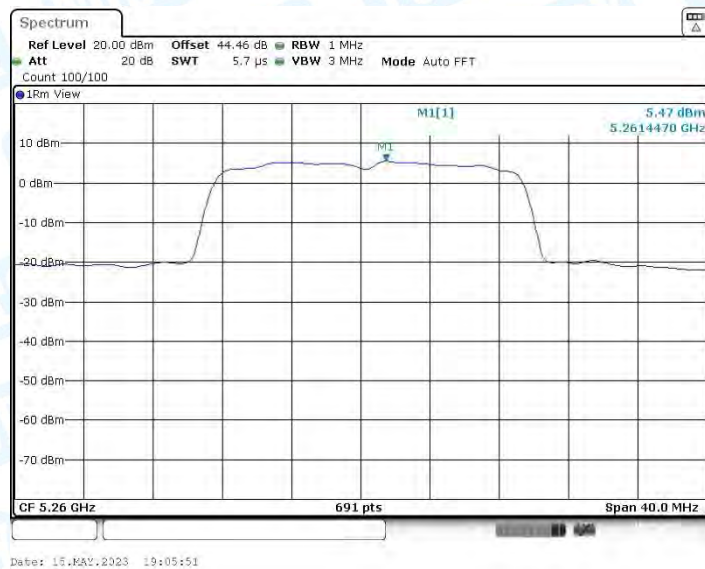


11N20MIMO_Ant1&Ant.2_5200

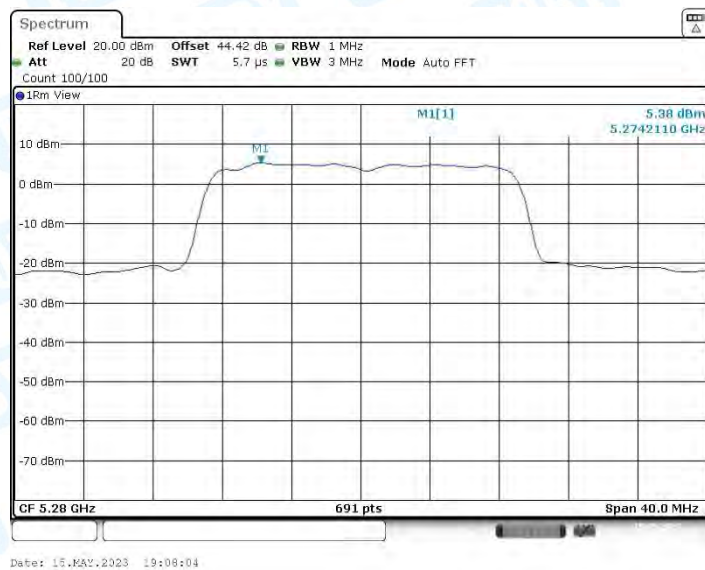




11N20MIMO_Ant1&Ant.2_5240

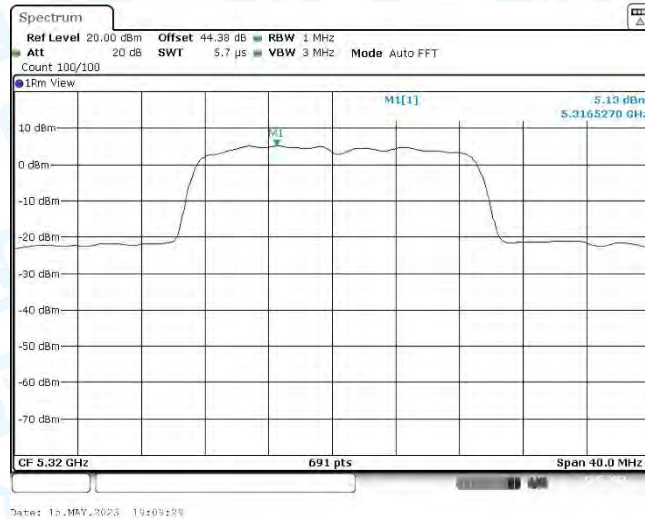


11N20MIMO_Ant1&Ant.2_5260

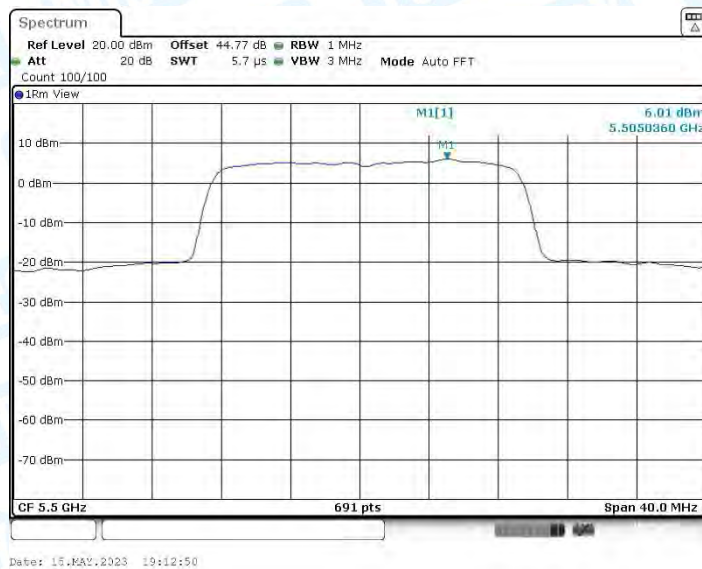


11N20MIMO_Ant1&Ant.2_5280

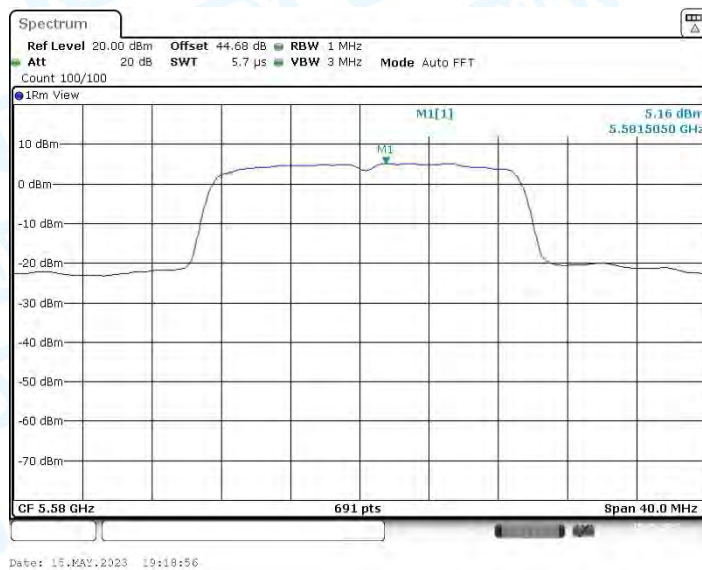




11N20MIMO_Ant1&Ant.2_5320

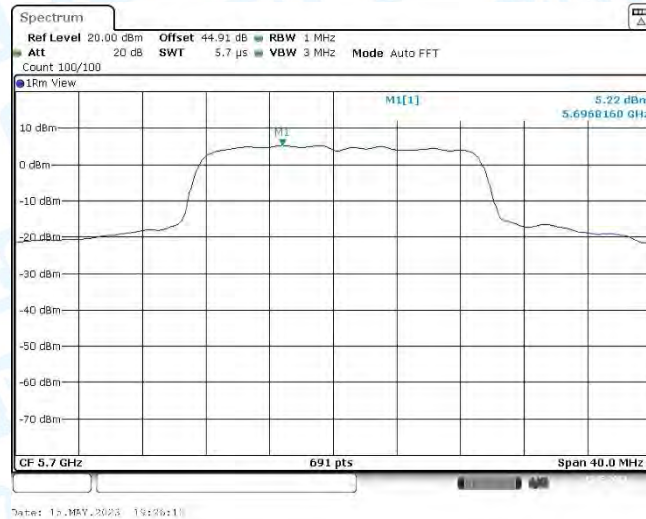


11N20MIMO_Ant1&Ant.2_5500

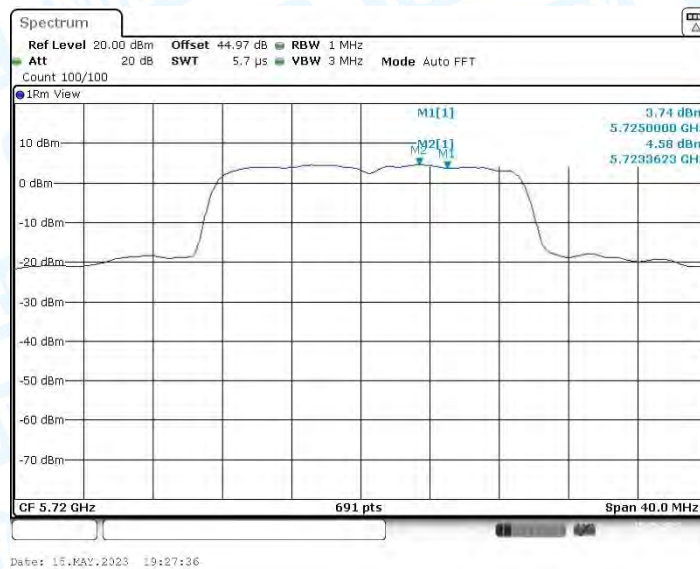


11N20MIMO_Ant1&Ant.2_5580

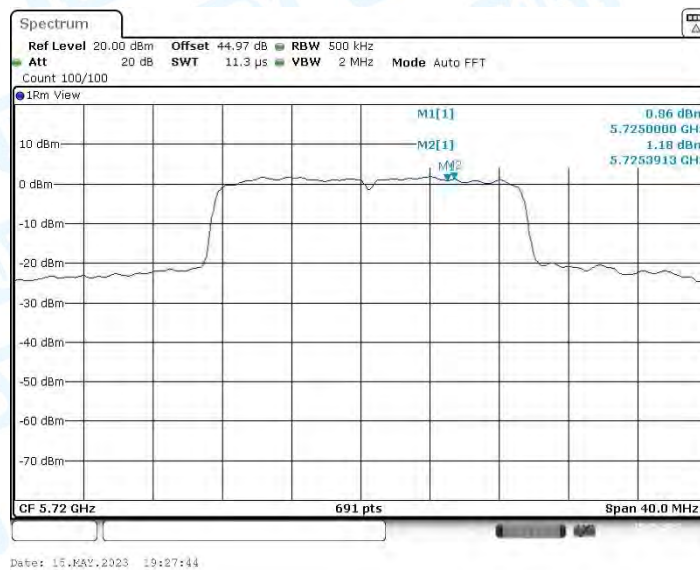




11N20MIMO_Ant1&Ant.2_5700

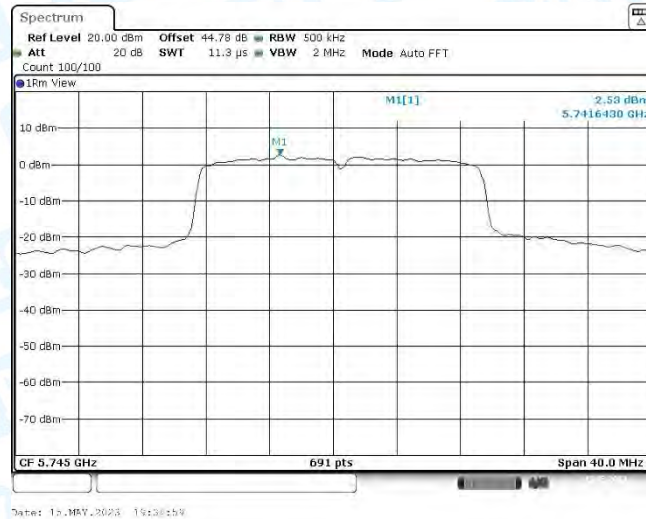


11N20MIMO_Ant1&Ant.2_5720_UNII-2C

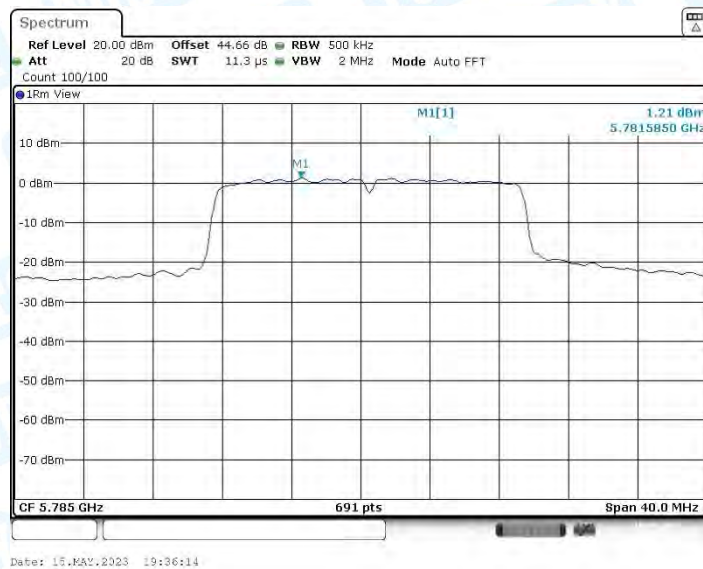


11N20MIMO_Ant1&Ant.2_5720_UNII-3

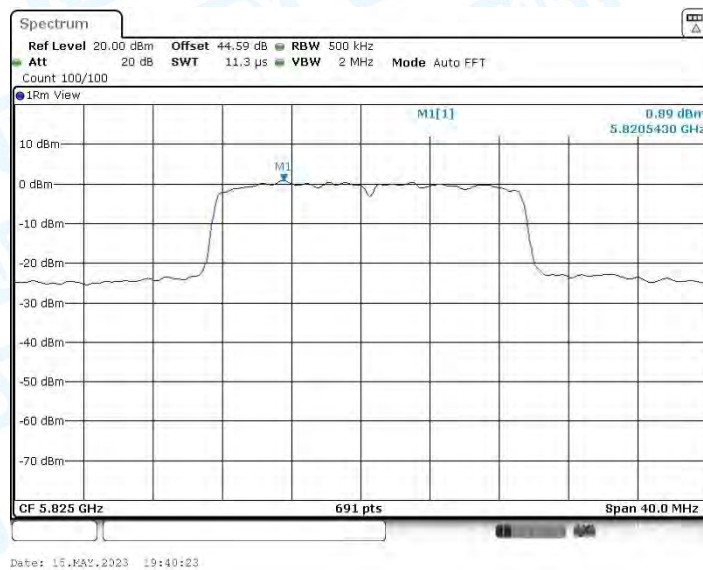




11N20MIMO_Ant1&Ant.2_5745

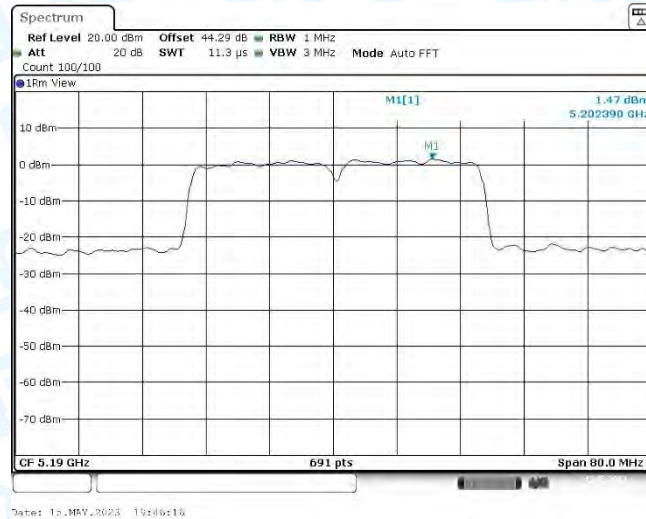


11N20MIMO_Ant1&Ant.2_5785

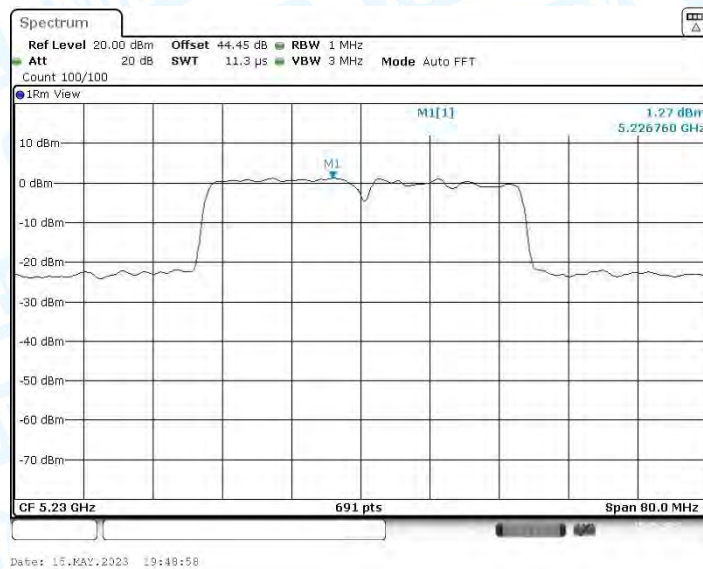


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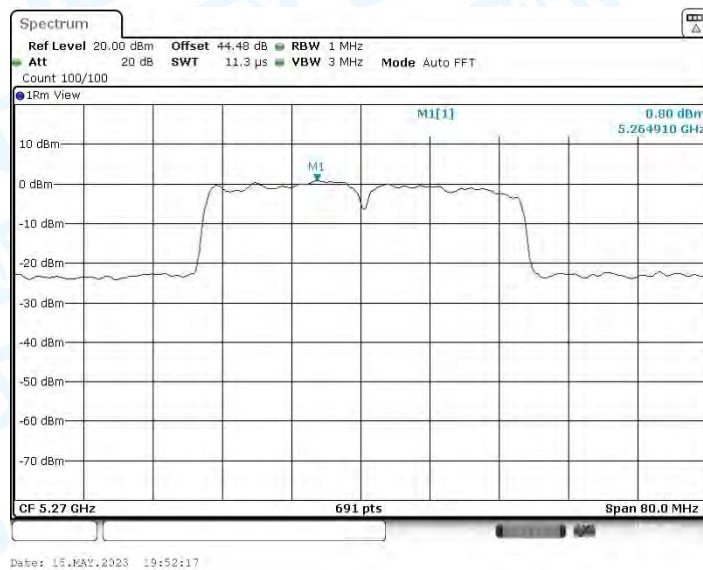




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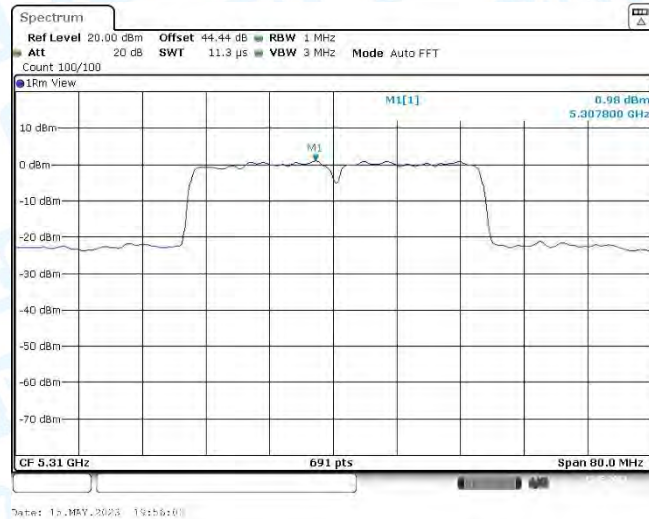


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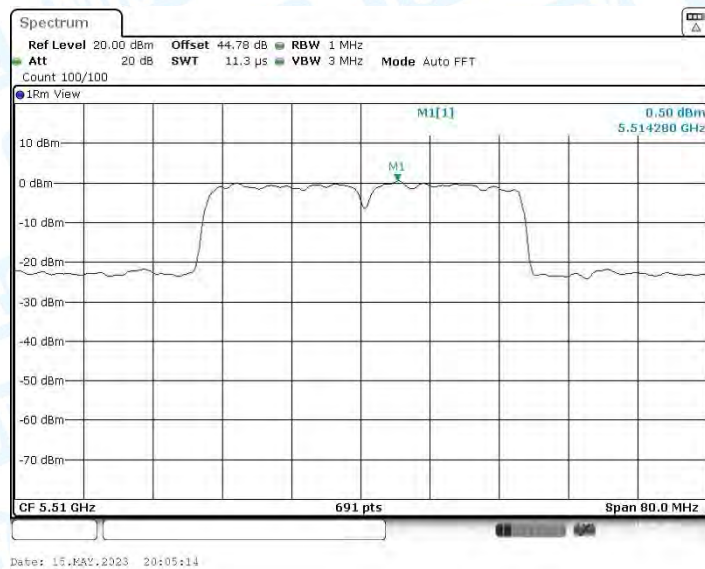


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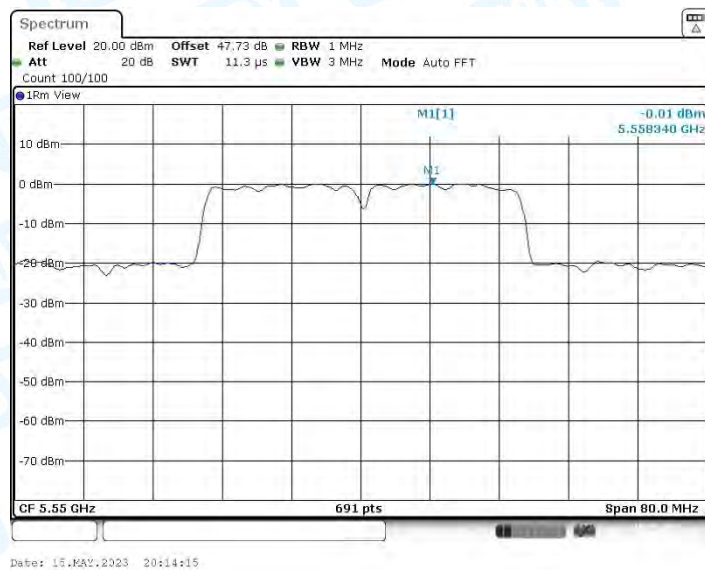




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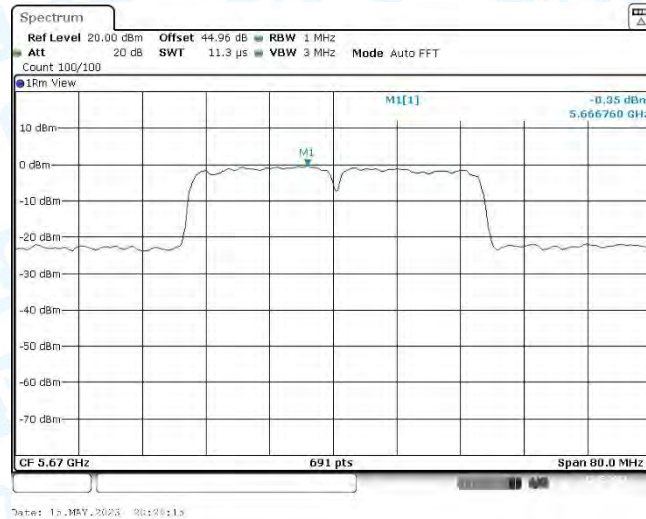


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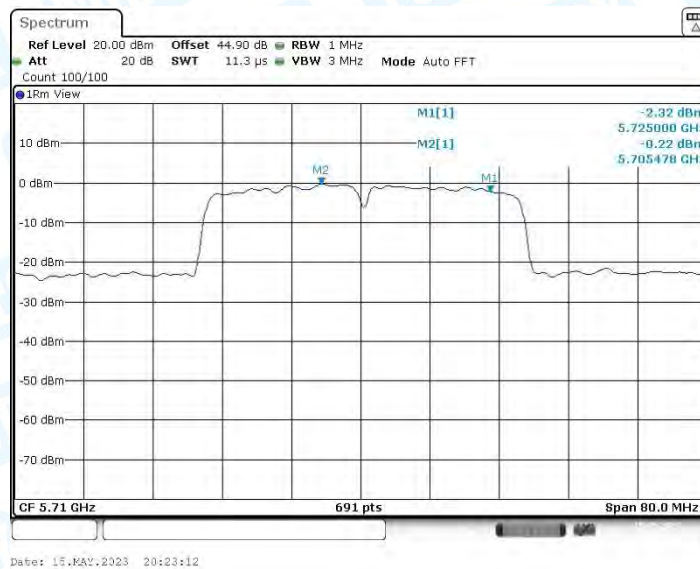


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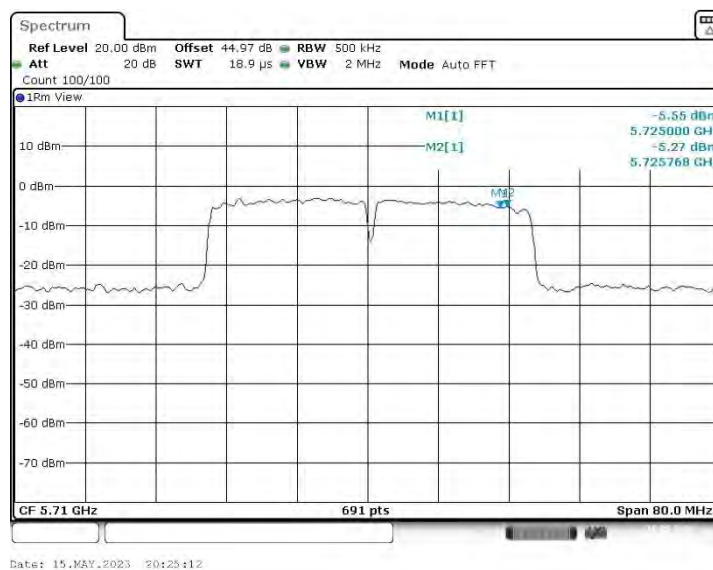




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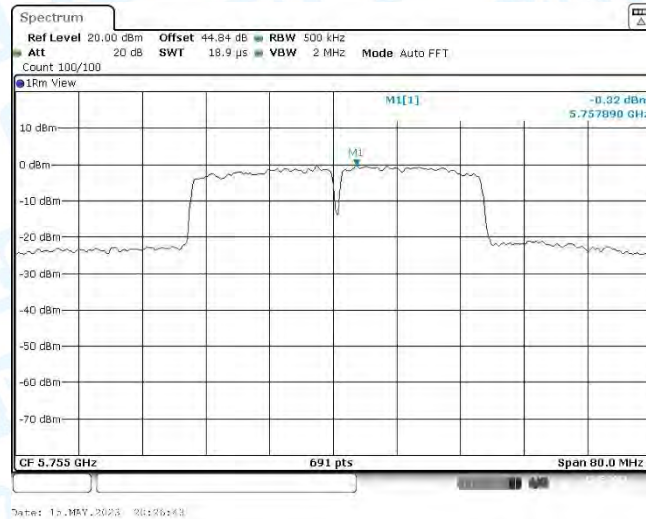


11N40MIMO_Ant1&Ant.2_5710_UNII-2C

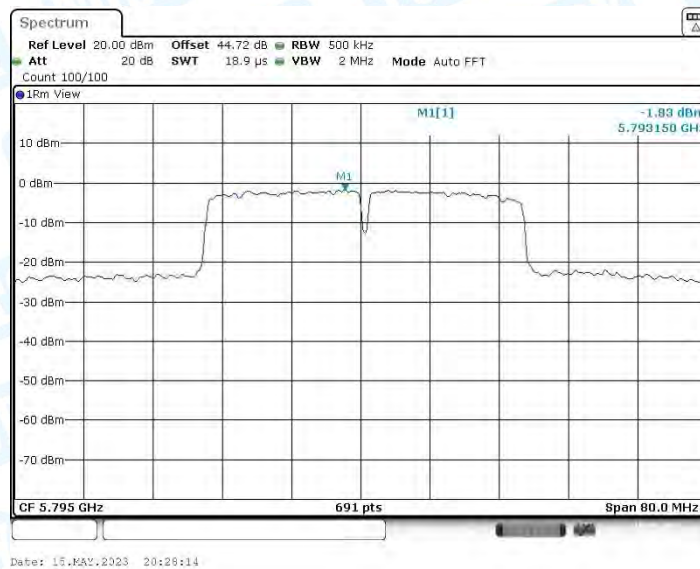


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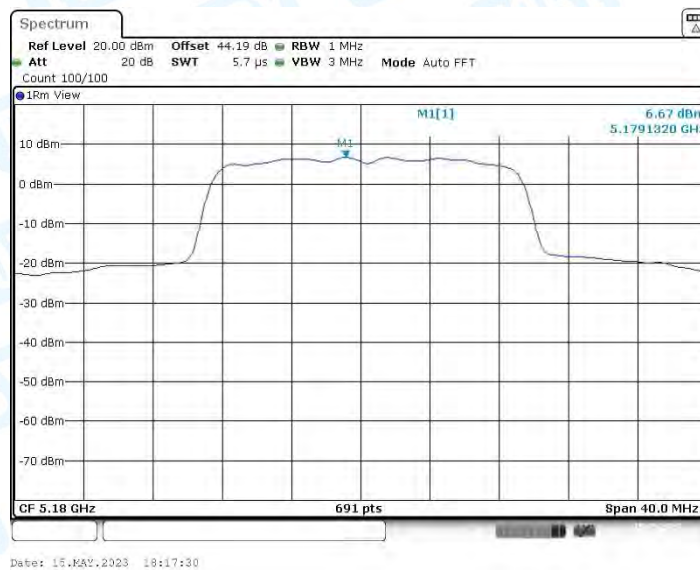




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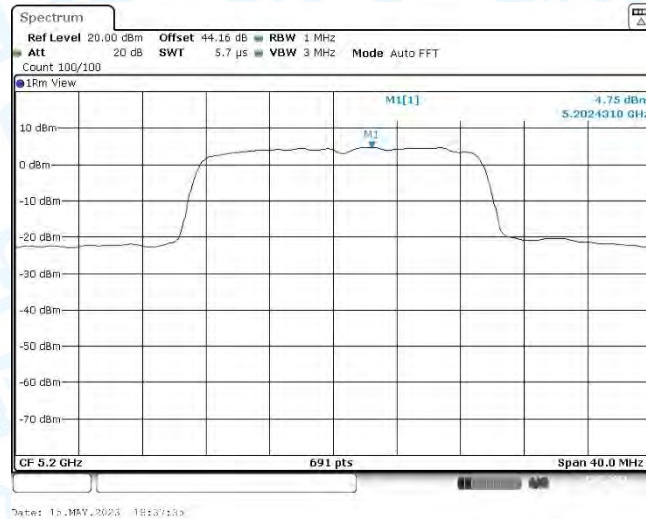


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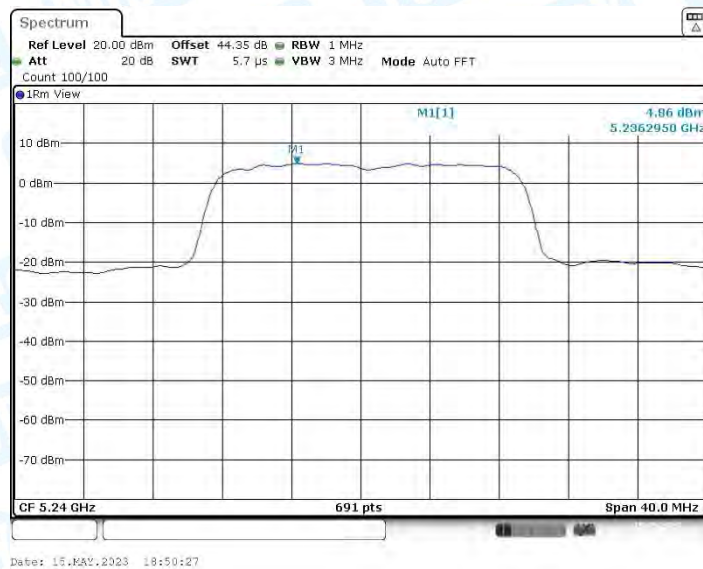


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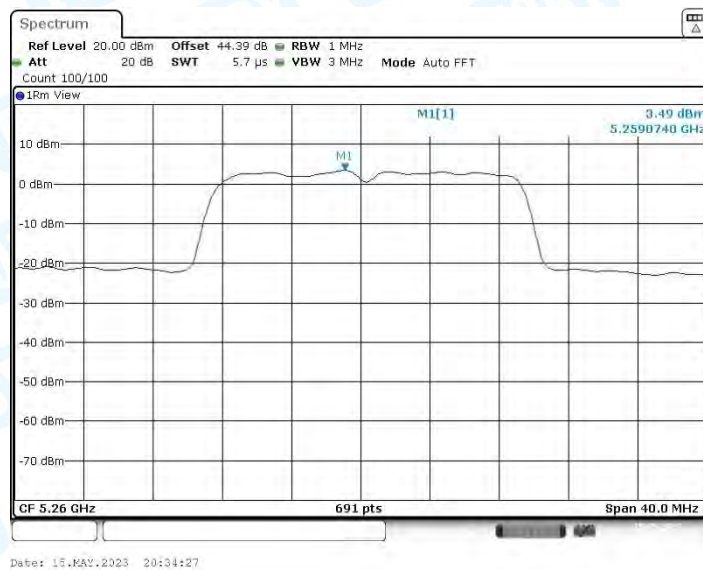




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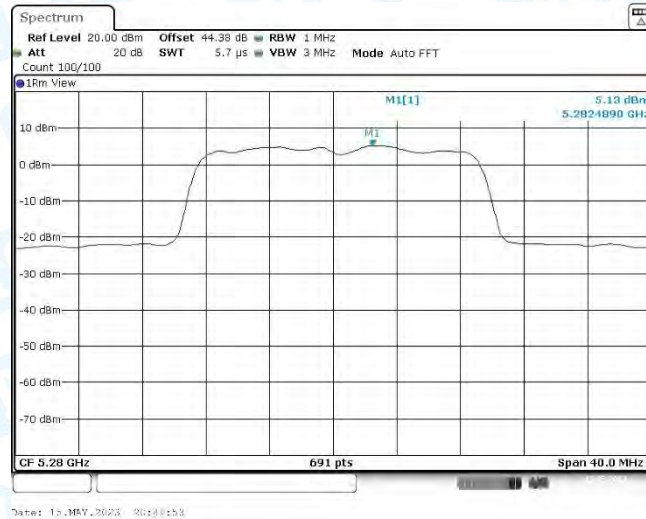


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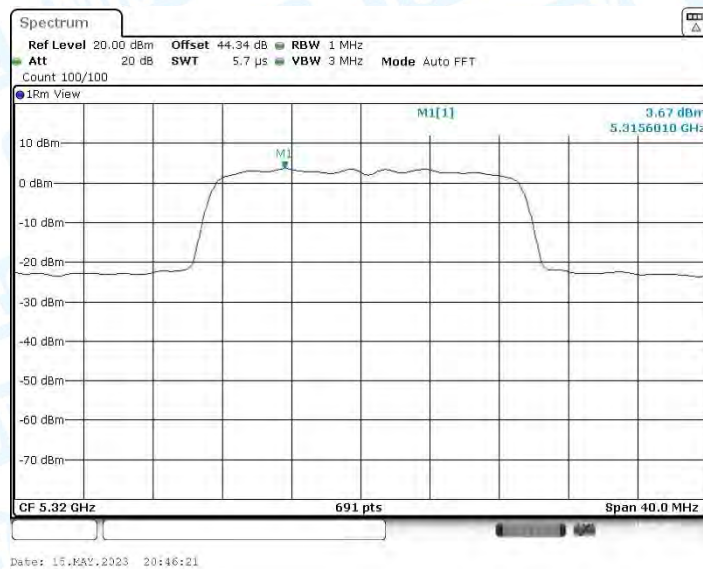


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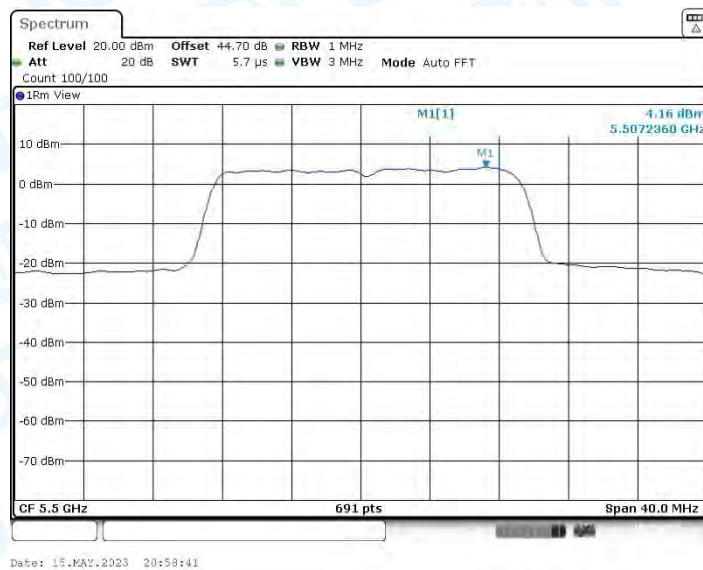




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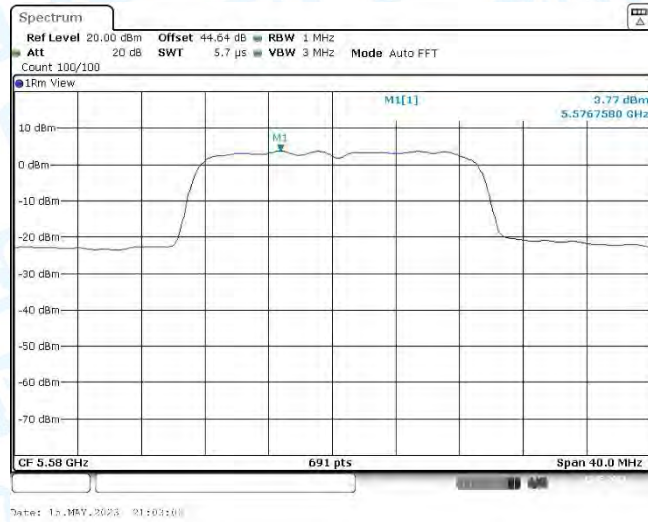


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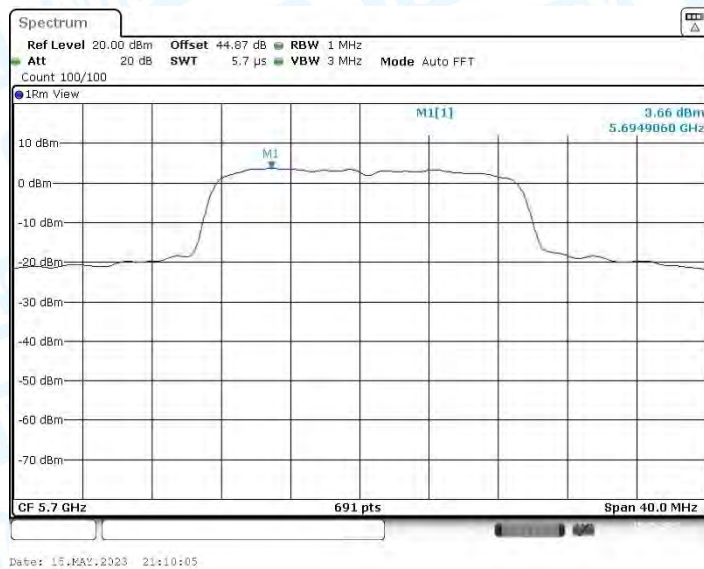


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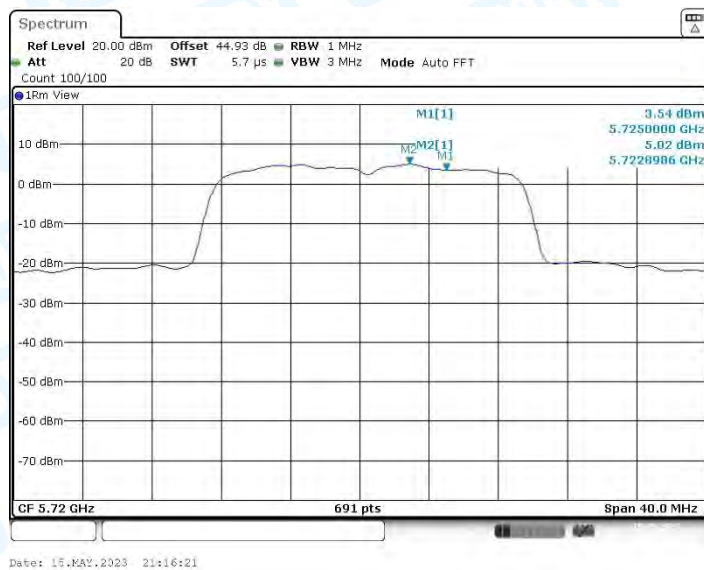




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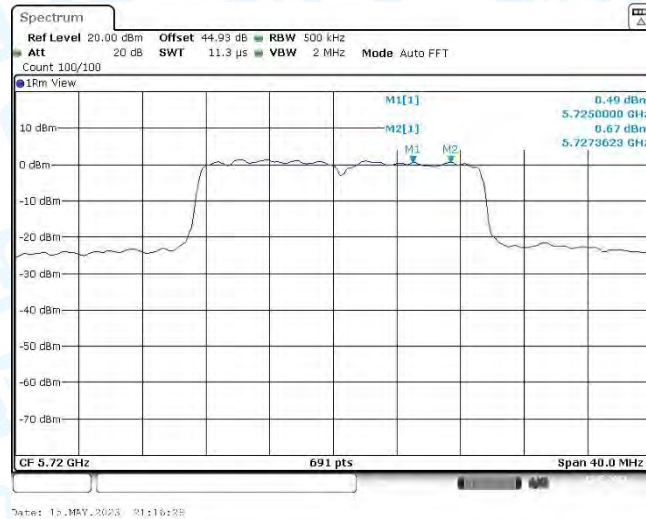


11AC20MIMO_Ant1&Ant.2_5700



11AC20MIMO_Ant1&Ant.2_5720_UNII-2C

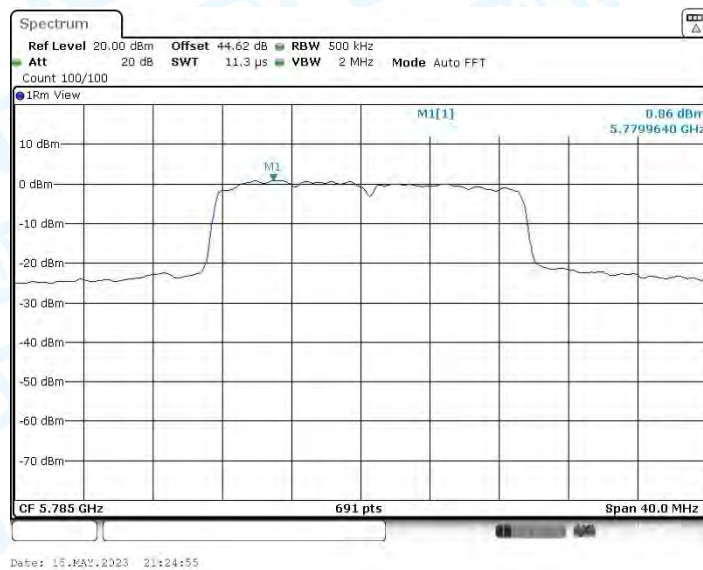




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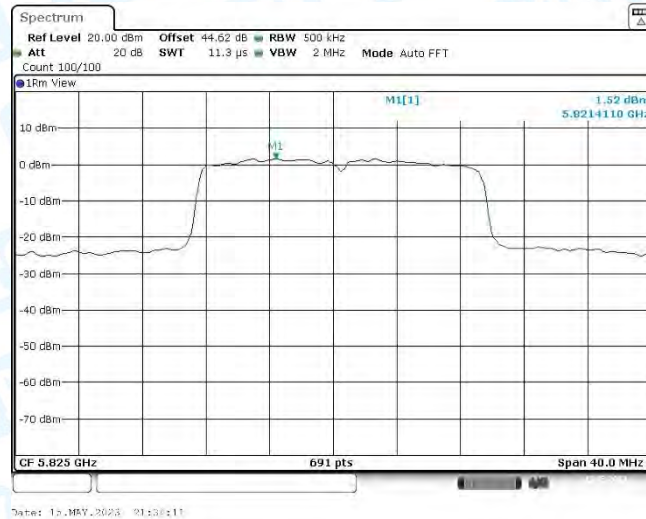


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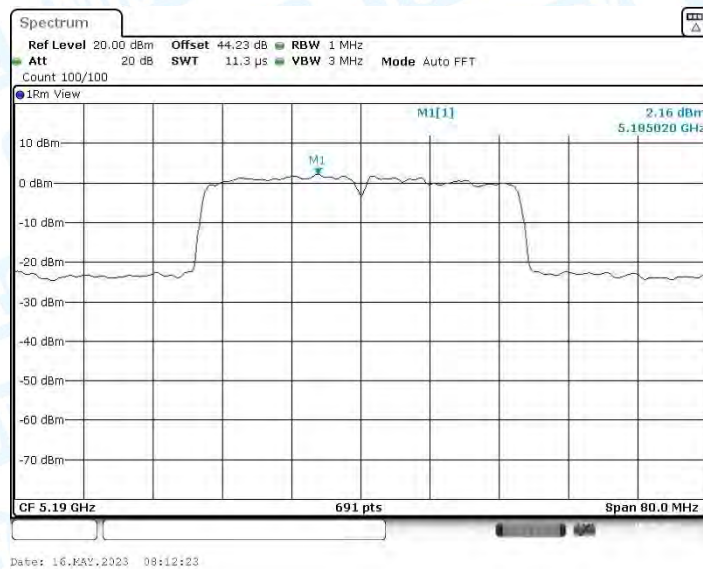


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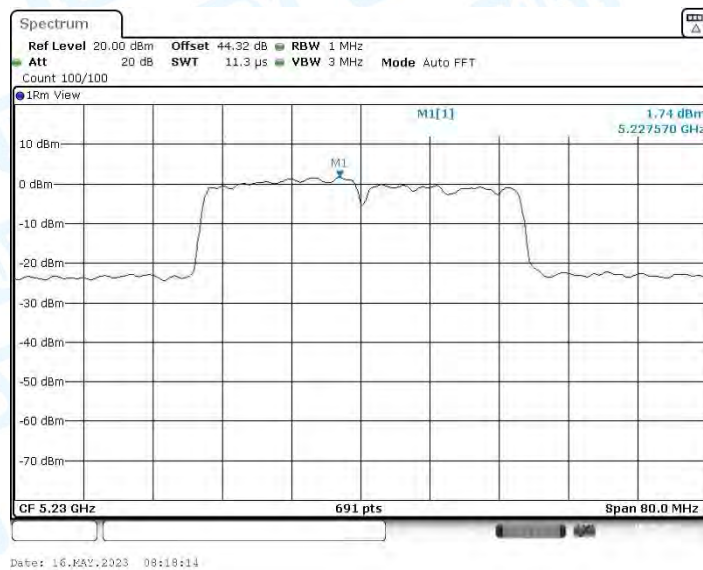




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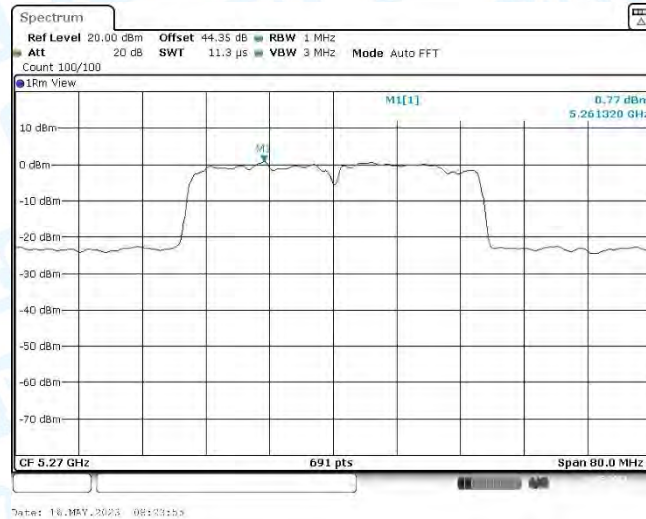


11AC40MIMO_Ant1&Ant.2_5190

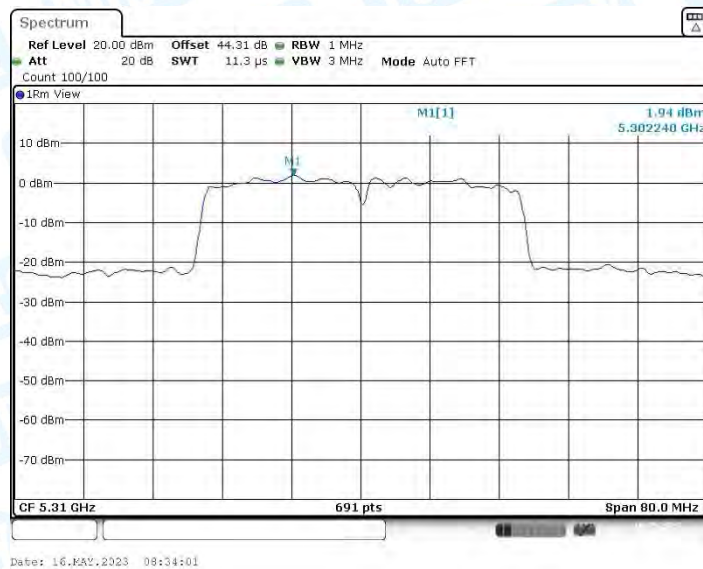


11AC40MIMO_Ant1&Ant.2_5230

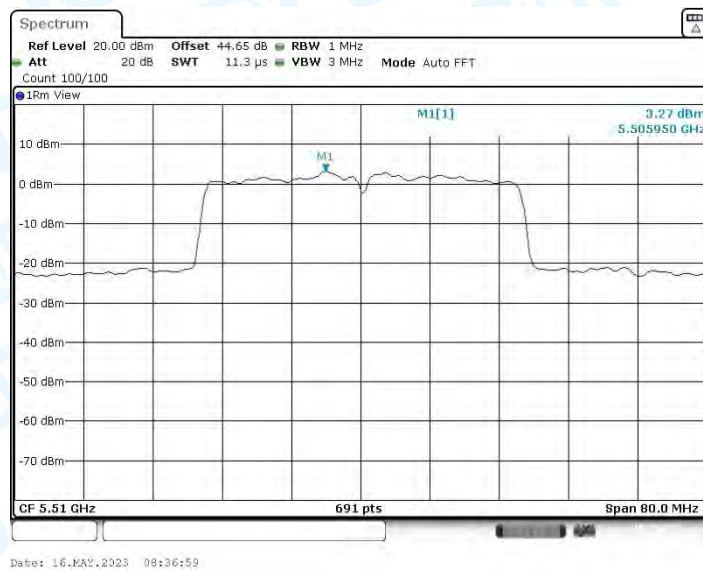




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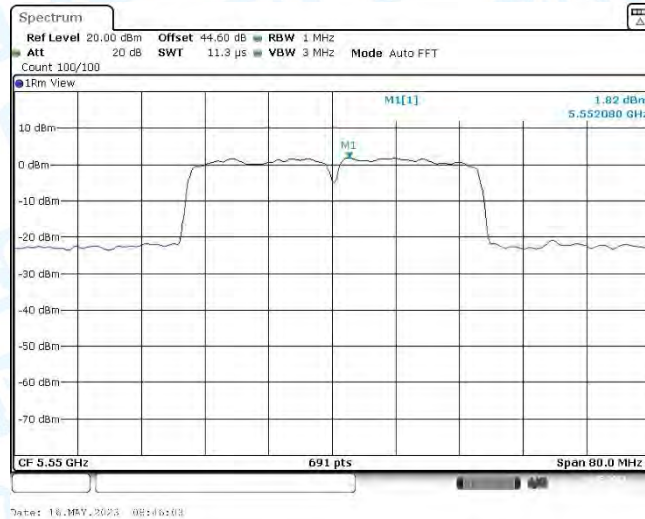


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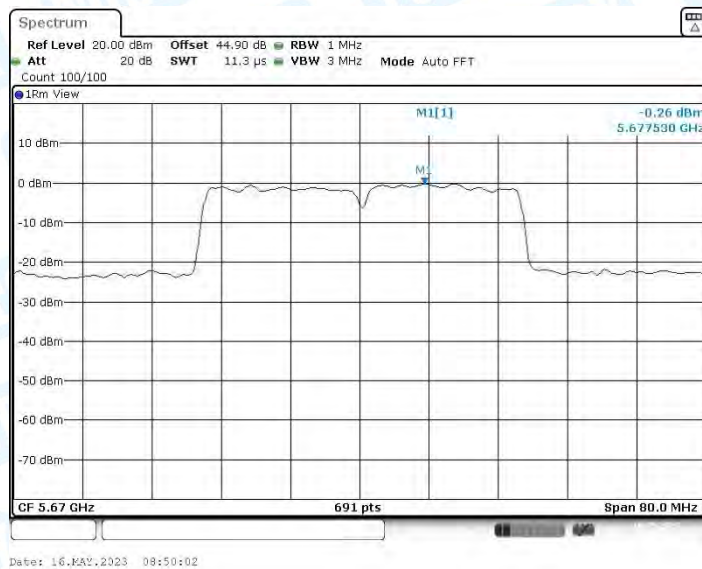


11AC40MIMO_Ant1&Ant.2_5510

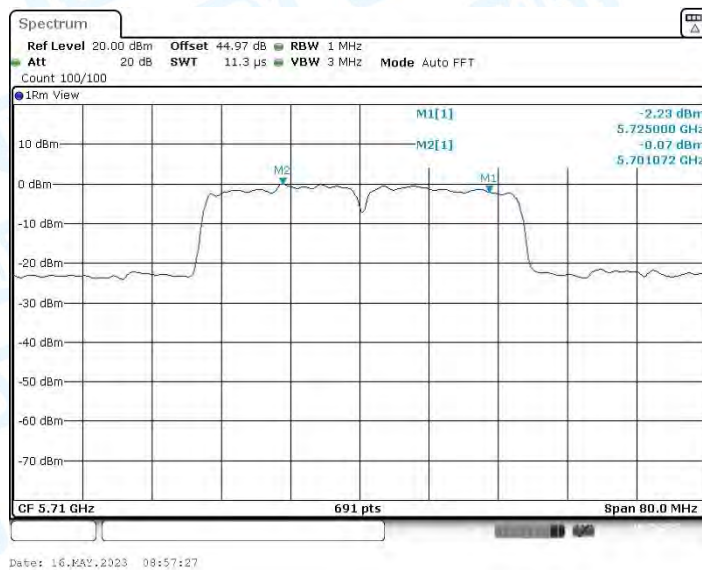




11AC40MIMO_Ant1&Ant.2_5550

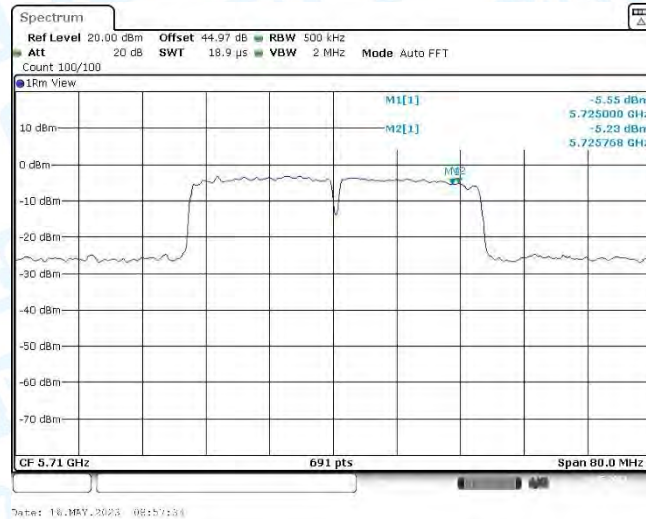


11AC40MIMO_Ant1&Ant.2_5670

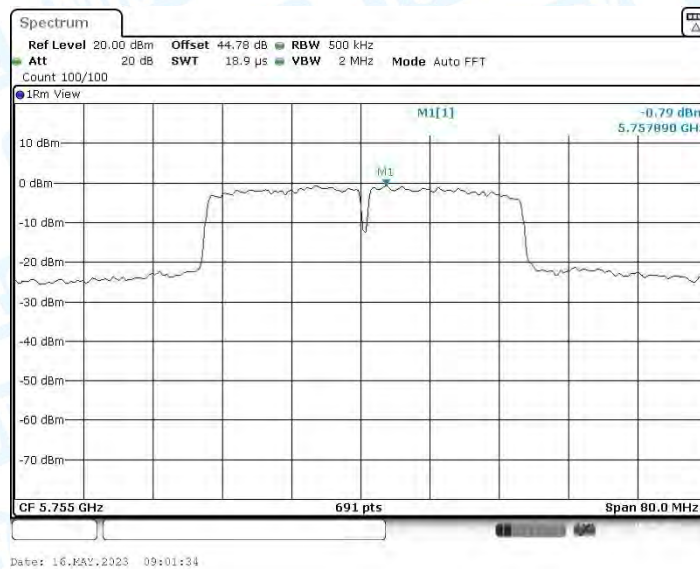


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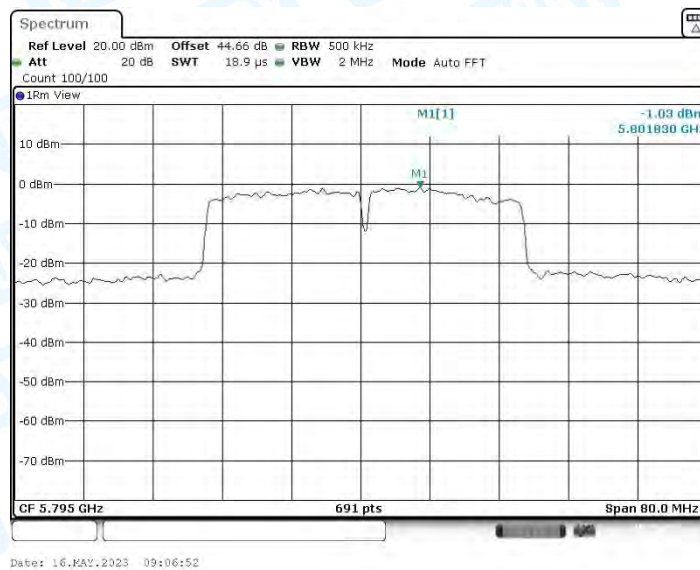




11AC40MIMO_Ant1&Ant.2_5710_UNII-3

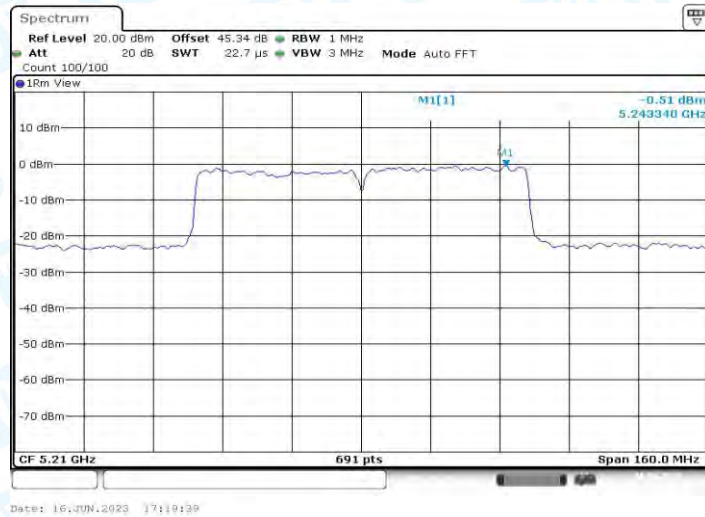


11AC40MIMO_Ant1&Ant.2_5755



11AC40MIMO_Ant1&Ant.2_5795





11AC80MIMO_Ant1&Ant.2_5210

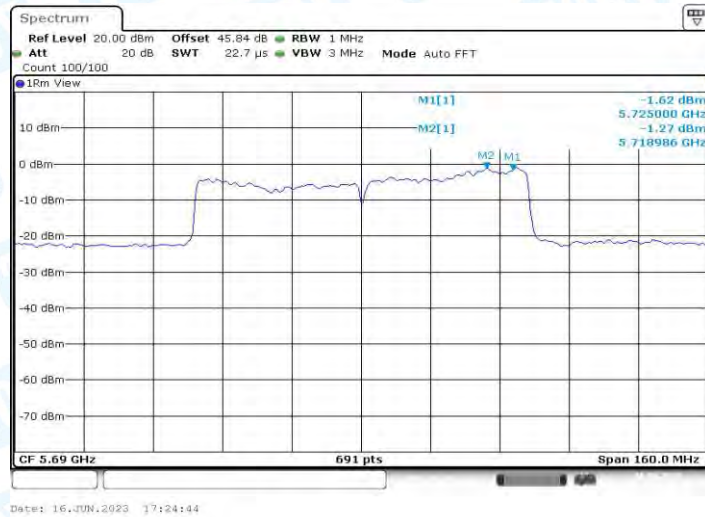


11AC80MIMO_Ant1&Ant.2_5290

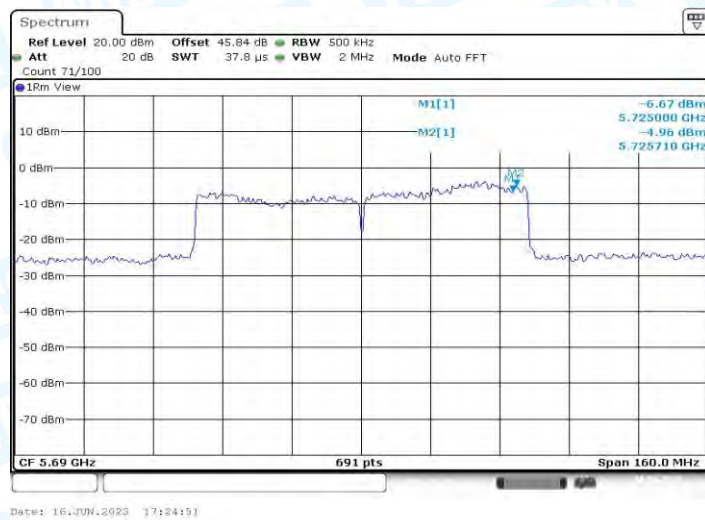


11AC80MIMO_Ant1&Ant.2_5530

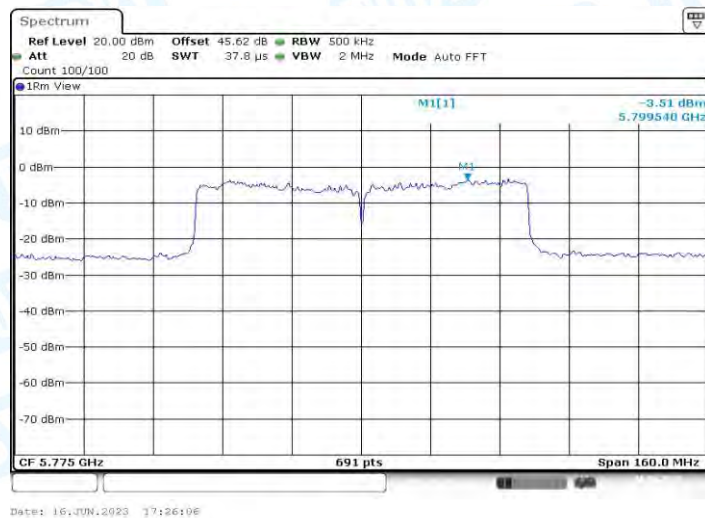




11AC80MIMO_Ant1&Ant.2_5690_UNII-2C

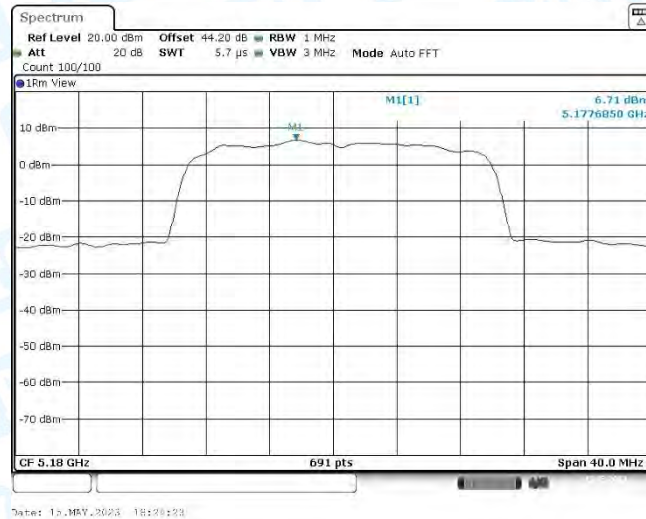


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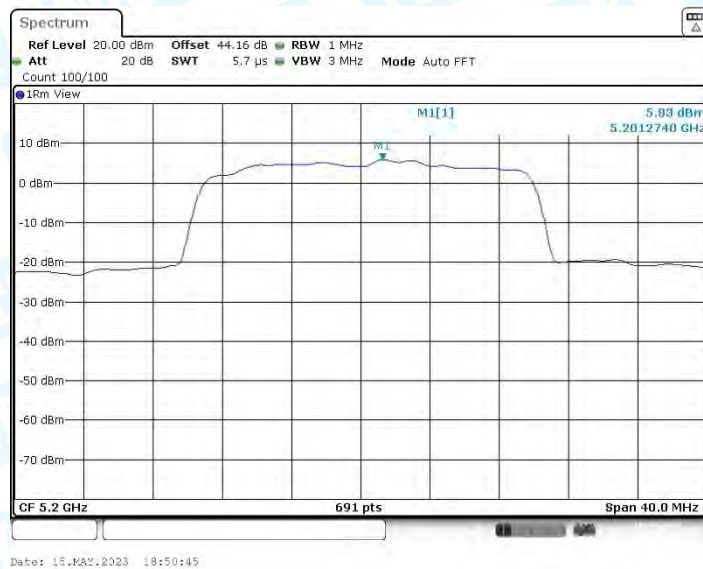


11AC80MIMO_Ant1&Ant.2_5775

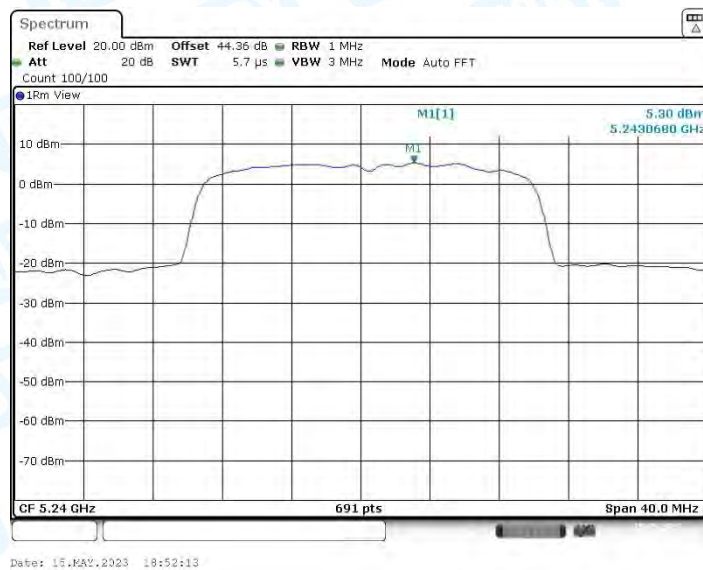




11AX20MIMO_Ant1&Ant.2_5180

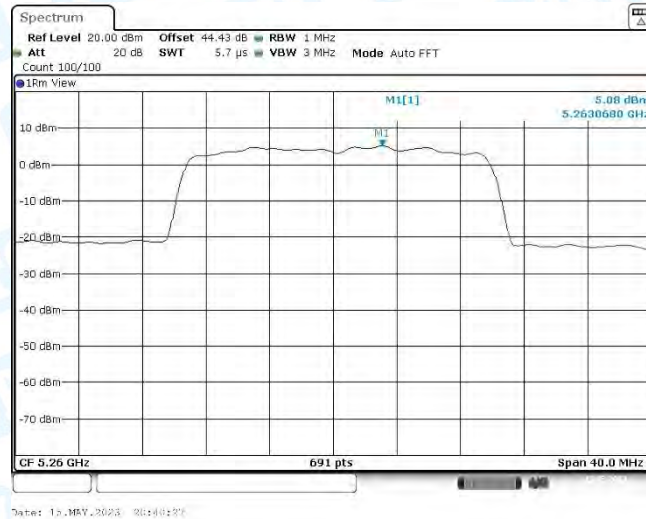


11AX20MIMO_Ant1&Ant.2_5200

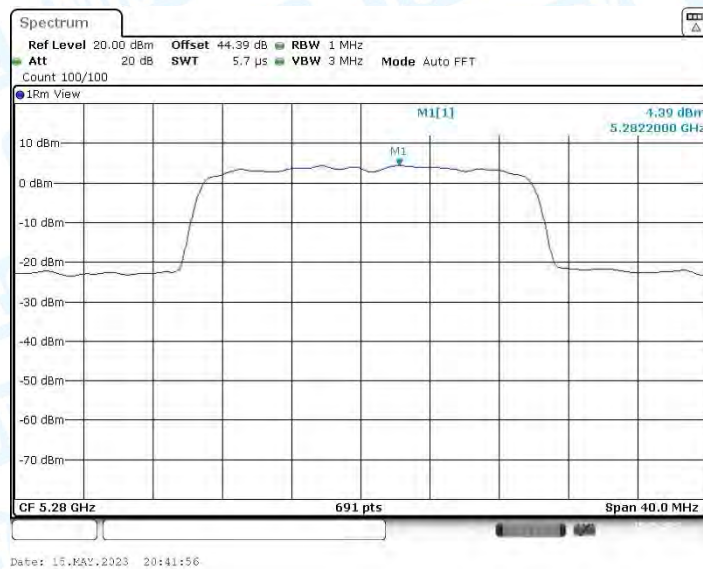


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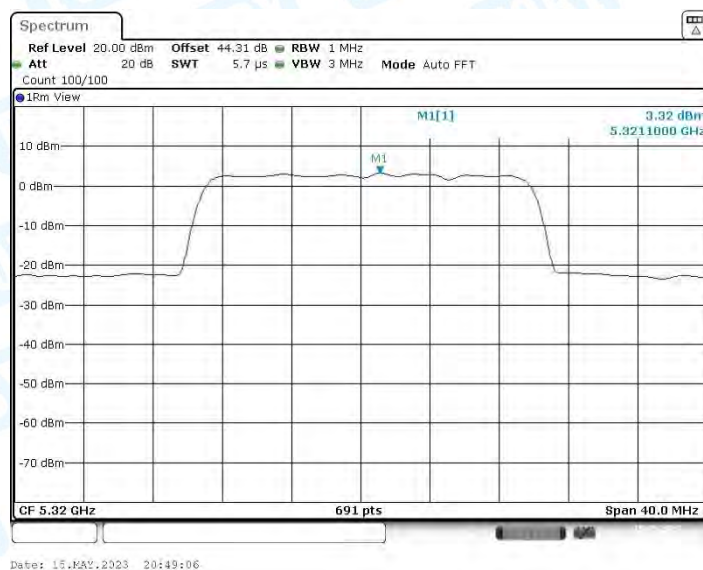




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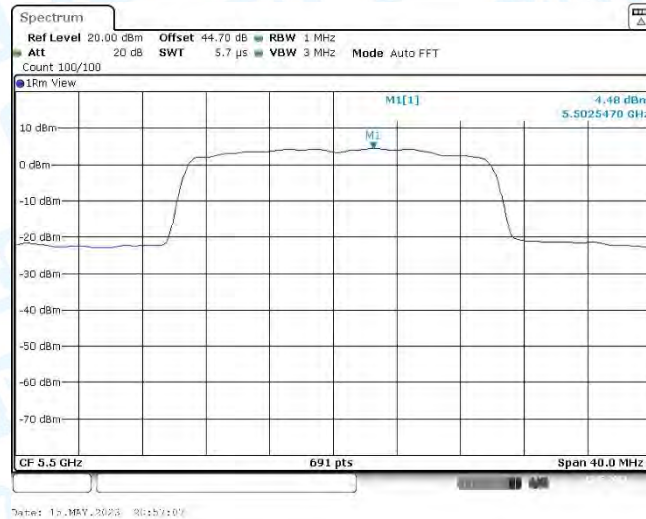


11AX20MIMO_Ant1&Ant.2_5280

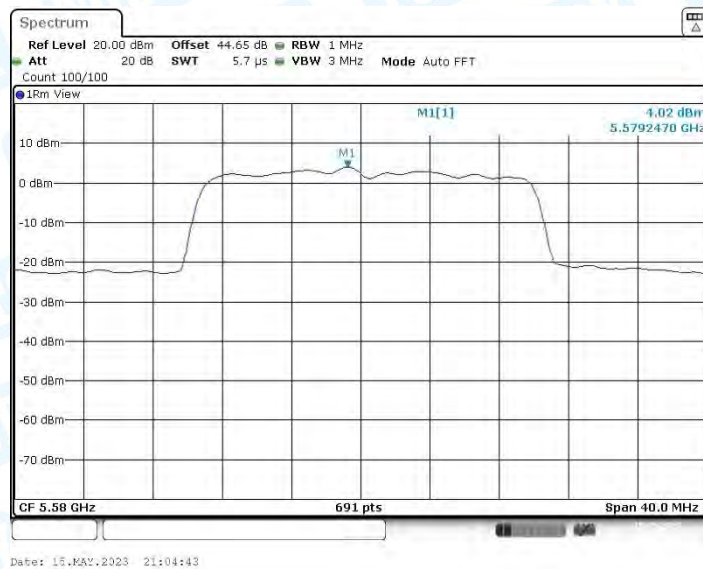


11AX20MIMO_Ant1&Ant.2_5320

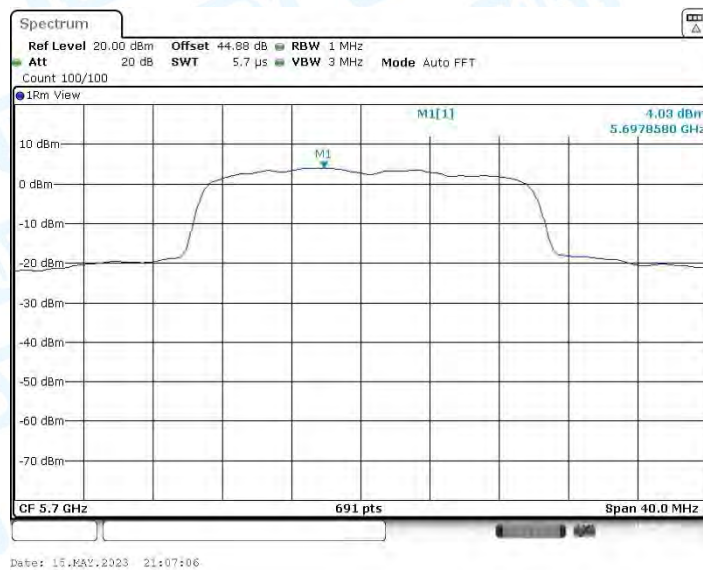




11AX20MIMO_Ant1&Ant.2_5500

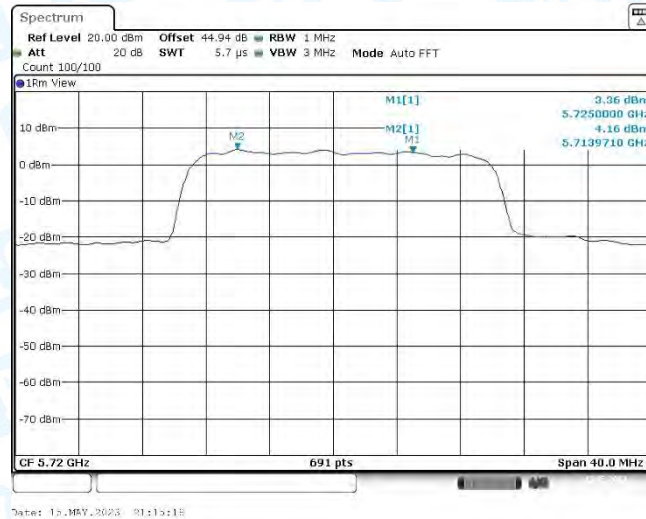


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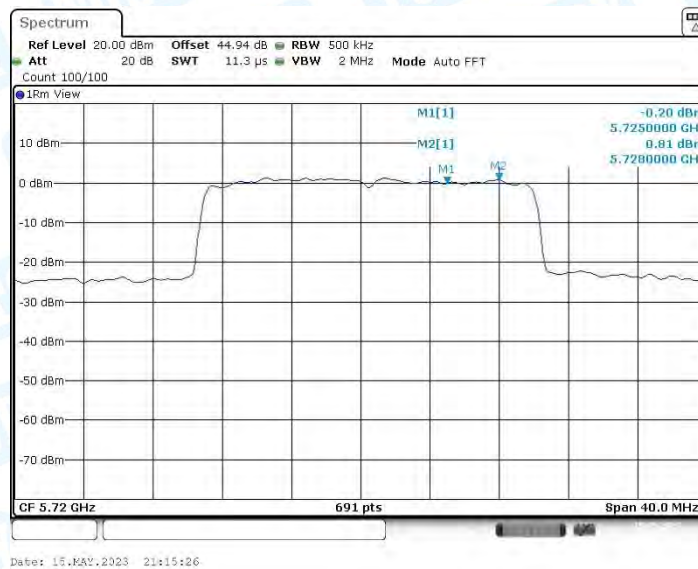


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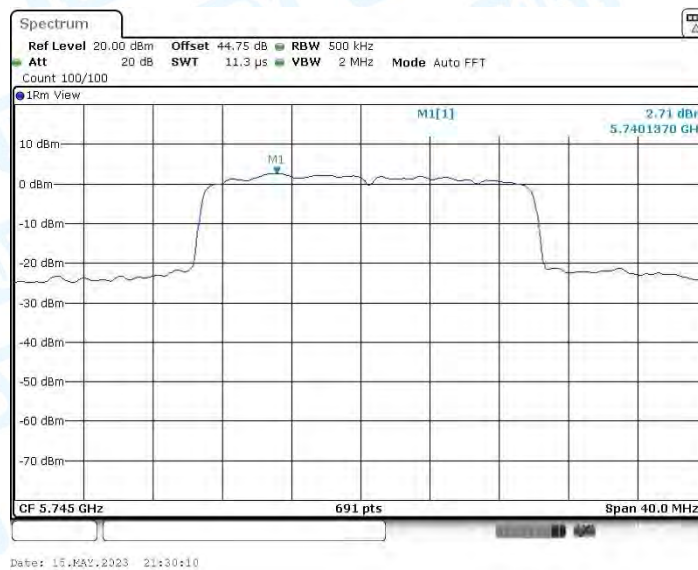




11AX20MIMO_Ant1&Ant.2_5720_UNII-2C

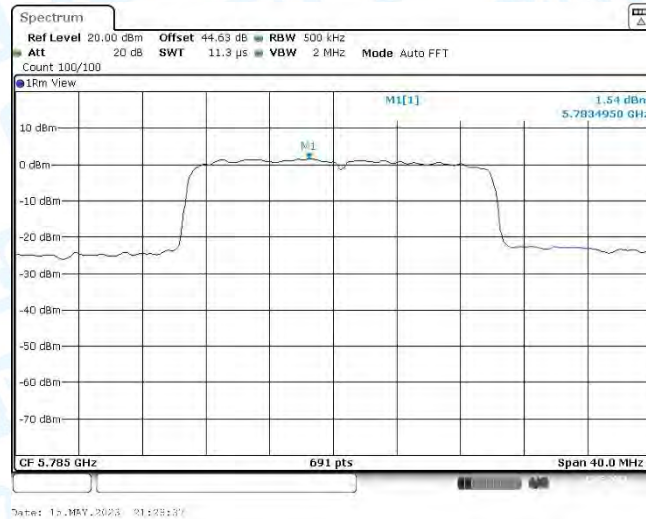


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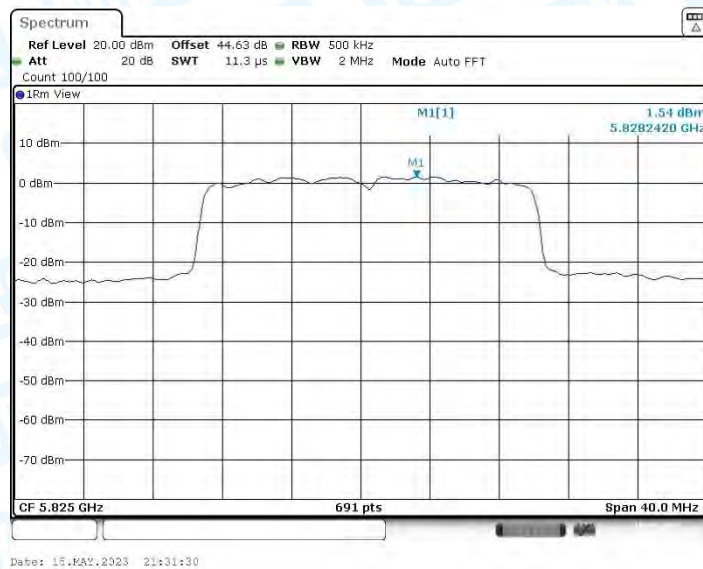


11AX20MIMO_Ant1&Ant.2_5745

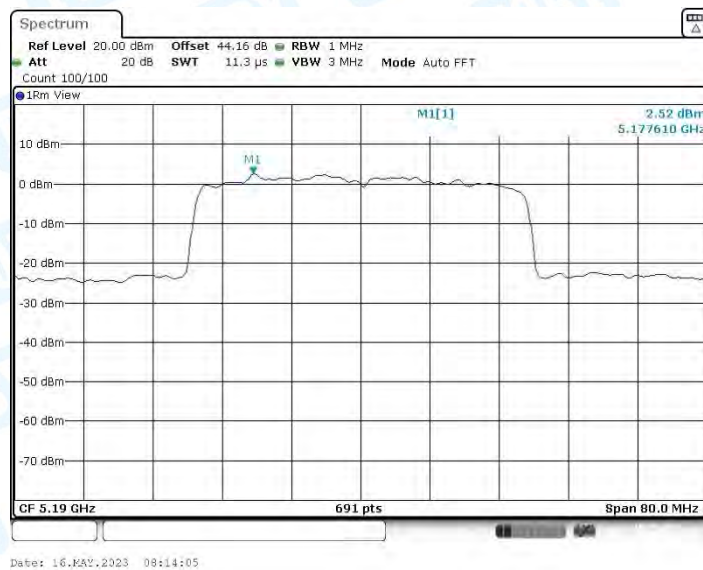




11AX20MIMO_Ant1&Ant.2_5785

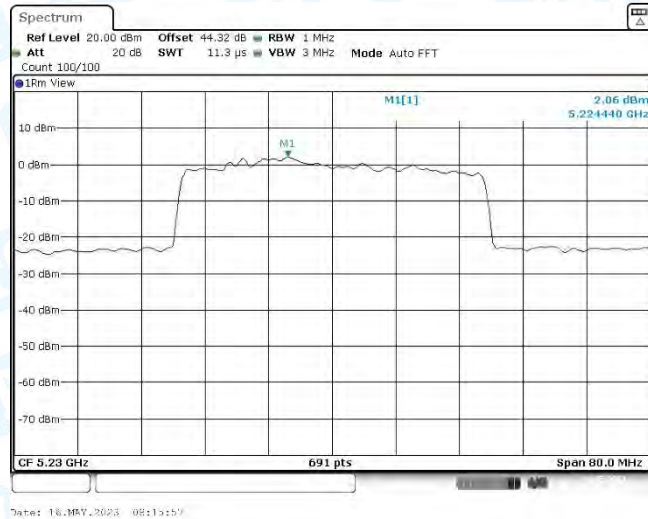


11AX20MIMO_Ant1&Ant.2_5825

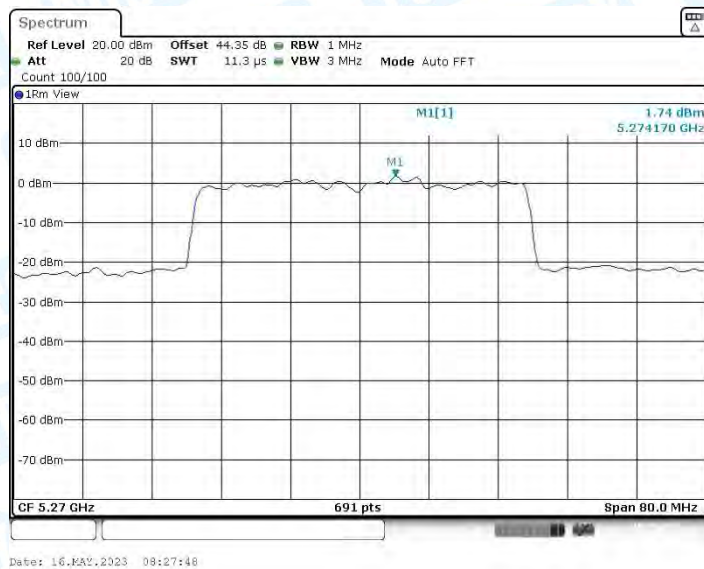


11AX40MIMO_Ant1&Ant.2_5190

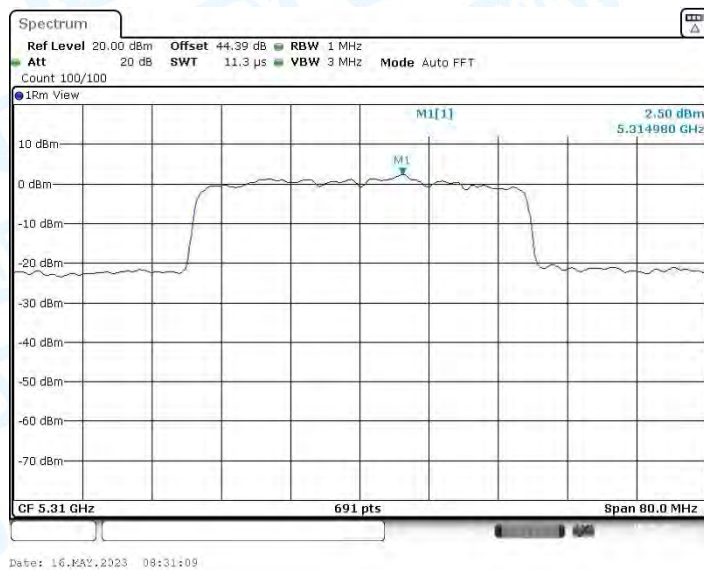




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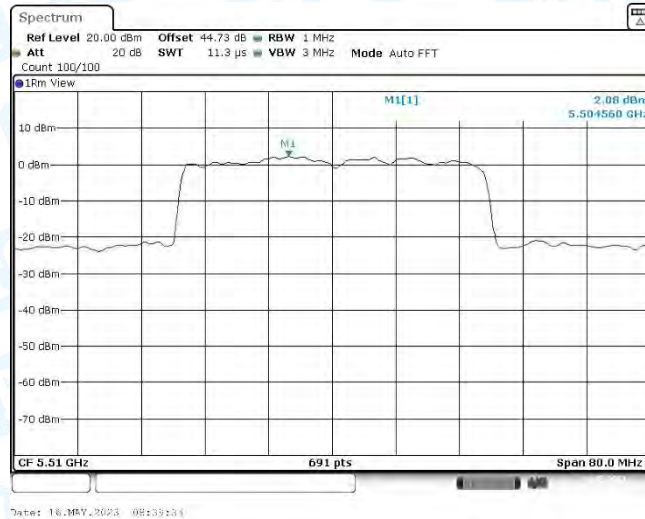


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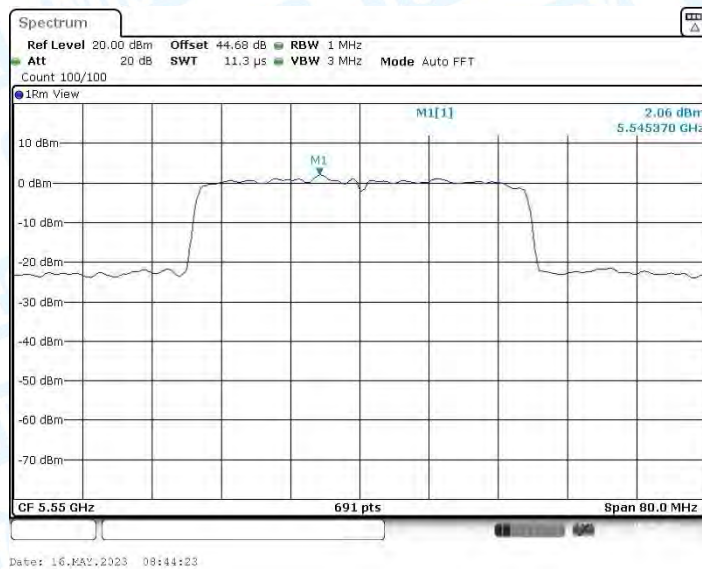


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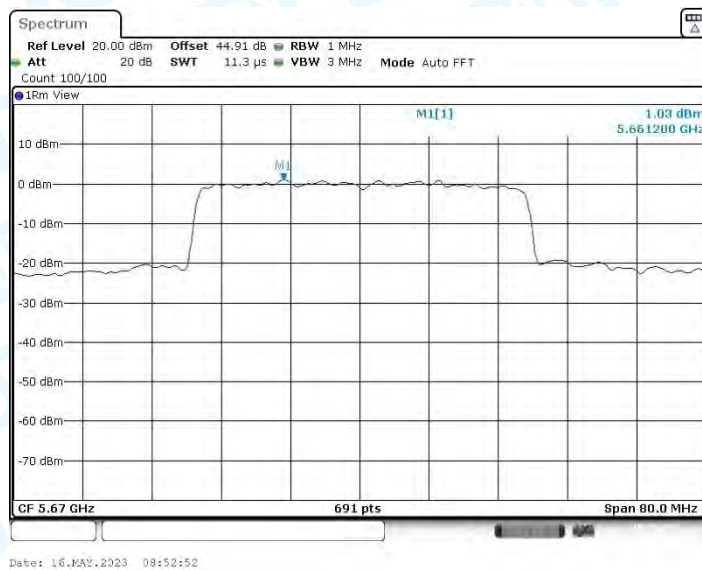




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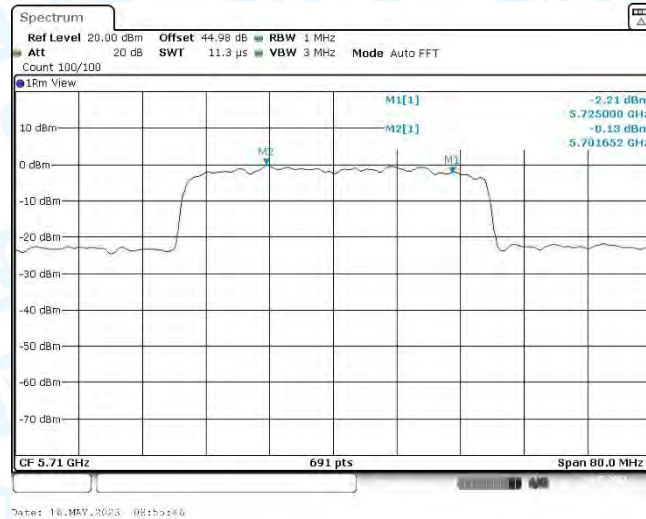


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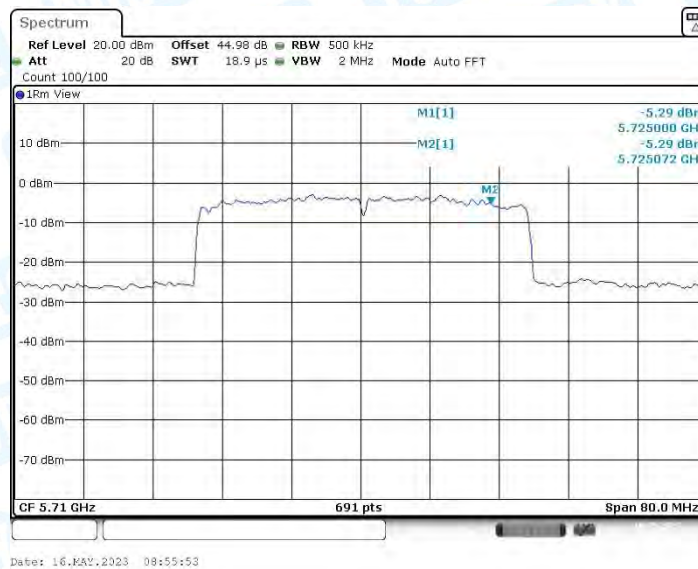


11AX40MIMO_Ant1&Ant.2_5670

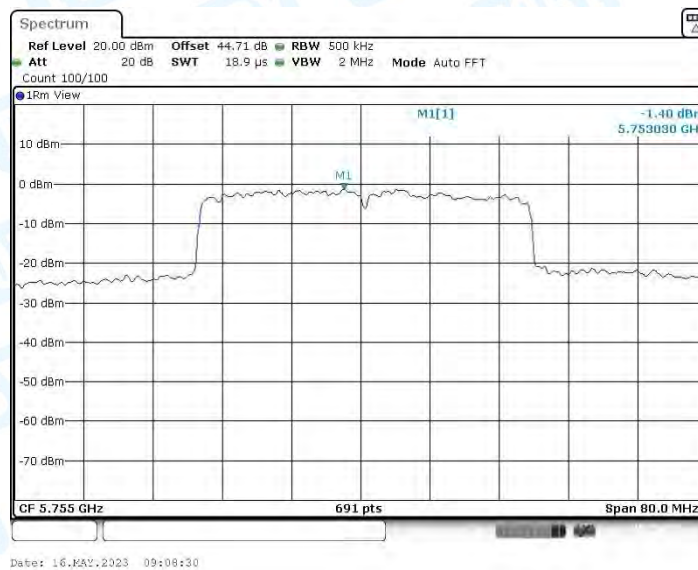




11AX40MIMO_Ant1&Ant.2_5710_UNII-2C

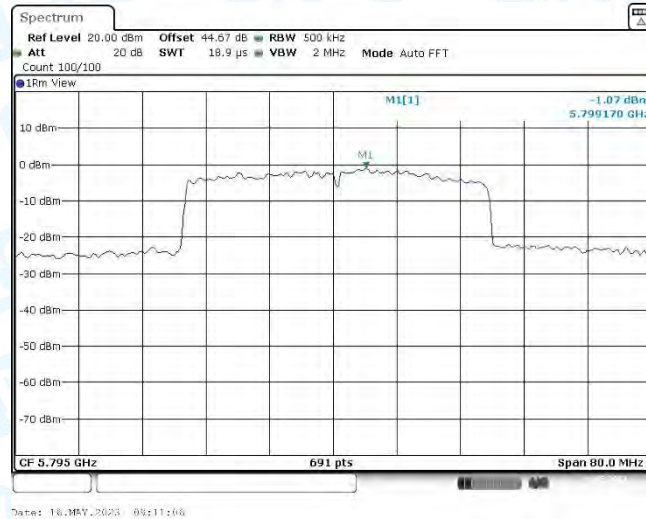


11AX40MIMO_Ant1&Ant.2_5710_UNII-3

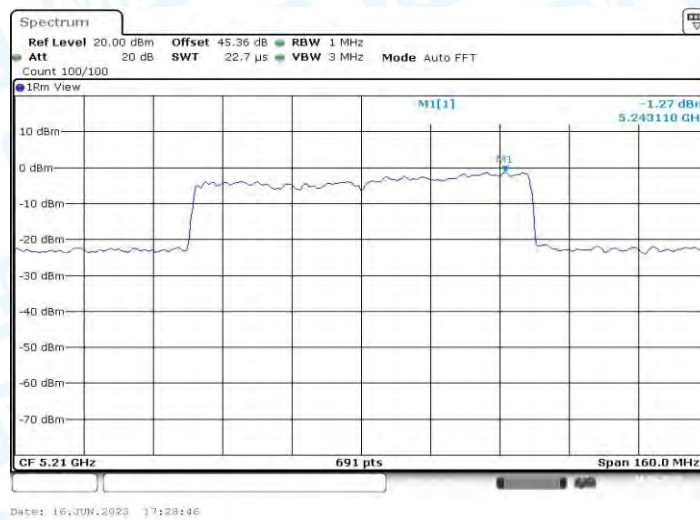


11AX40MIMO_Ant1&Ant.2_5755

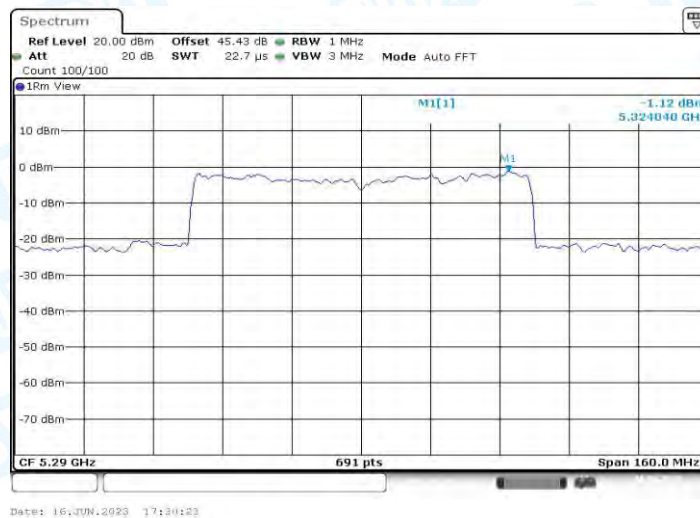




11AX40MIMO_Ant1&Ant.2_5795

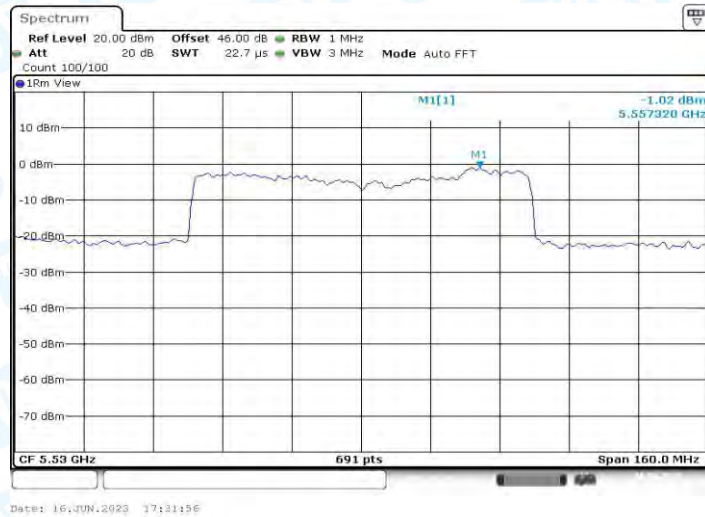


11AX80MIMO_Ant1&Ant.2_5210



11AX80MIMO_Ant1&Ant.2_5290





11AX80MIMO_Ant1&Ant.2_5530

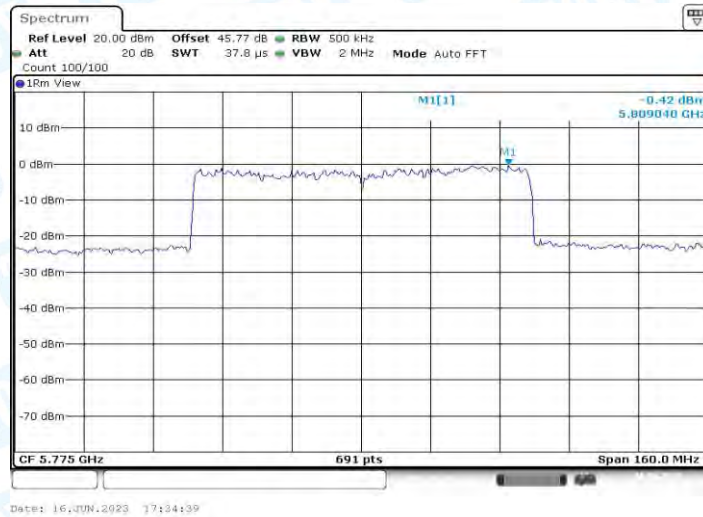


11AX80MIMO_Ant1&Ant.2_5690_UNII-2C



11AX80MIMO_Ant1&Ant.2_5690_UNII-3





11AX80MIMO_Ant1&Ant.2_5775



11. Frequency Stability

11.1 Test Standard and Limit

11.1.1 Test Standard

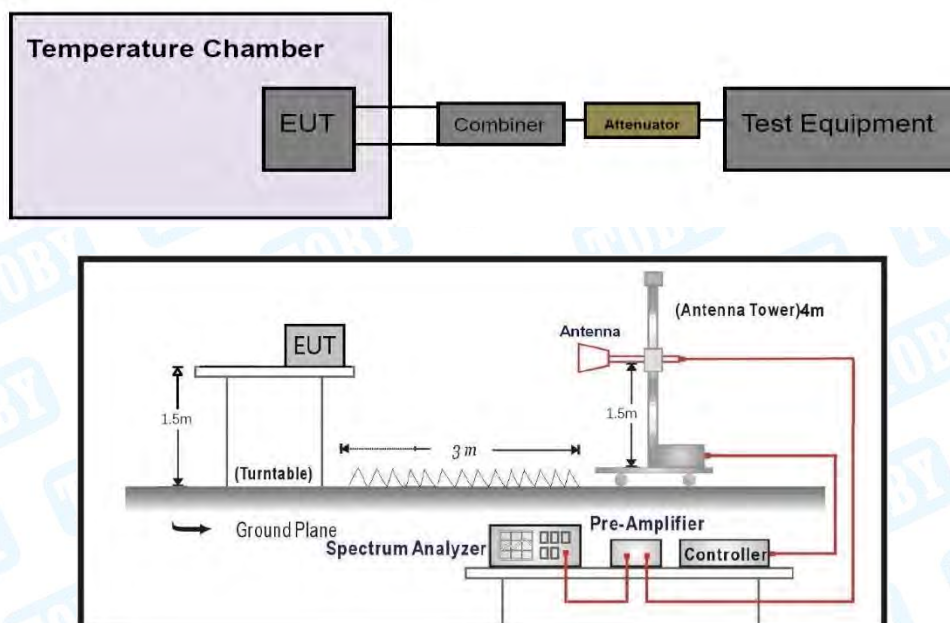
RSS-Gen 8.11

FCC Part 15.407(g)

11.1.2 Test Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

11.2 Test Setup



11.3 Test Procedure

Frequency stability with respect to ambient temperature

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For



devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more than 10°C , and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

c) Measure the frequency at each of the frequencies specified in 5.6.

d) Repeat the above procedure at 85% and 115% of the nominal supply voltage as described in 5.13.

11.4 Deviation From Test Standard

No deviation

11.5 Antenna Connected Construction

Please refer to the description of test mode.

11.6 Test Data

Please refer to the following pages.



---Frequency Stability (Radiation Measurements)

Only show the worst case data.

TestMode	Antenna	Channel	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
	Ant2	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
	Ant1	5280	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5280	NV	NT	-20000.00	-3.787879	20	PASS
			LV	NT	-20000.00	-3.787879	20	PASS
			HV	NT	-20000.00	-3.787879	20	PASS
	Ant1	5320	NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5320	NV	NT	-20000.00	-3.759398	20	PASS
			LV	NT	-20000.00	-3.759398	20	PASS
			HV	NT	-20000.00	-3.759398	20	PASS
	Ant1	5500	NV	NT	-20000.00	-3.636364	20	PASS
			LV	NT	-20000.00	-3.636364	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
	Ant2	5500	NV	NT	-20000.00	-3.636364	20	PASS
			LV	NT	-20000.00	-3.636364	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
	Ant1	5580	NV	NT	-20000.00	-3.584229	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
	Ant2	5580	NV	NT	-20000.00	-3.584229	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
	Ant1	5700	NV	NT	-20000.00	-3.508772	20	PASS
			LV	NT	-20000.00	-3.508772	20	PASS
			HV	NT	-20000.00	-3.508772	20	PASS
	Ant2	5700	NV	NT	-20000.00	-3.508772	20	PASS
			LV	NT	-20000.00	-3.508772	20	PASS



	Ant1	5745	HV	NT	-20000.00	-3.508772	20	PASS
			NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5745	HV	NT	-20000.00	-3.481288	20	PASS
			NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
	Ant1	5785	HV	NT	-20000.00	-3.481288	20	PASS
			NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
	Ant2	5785	HV	NT	0.00	0.000000	20	PASS
			NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
	Ant1	5825	HV	NT	-20000.00	-3.457217	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5825	HV	NT	20000.00	3.433476	20	PASS
			NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS



12. Antenna Requirement

12.1 Test Standard and Limit

12.1.1 Test Standard

RSS 247 6.8

FCC Part 15.203

12.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

12.2 Deviation From Test Standard

No deviation

12.3 Antenna Connected Construction

The Max. gains of the antenna used for transmitting is 3.35dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

12.4 Test Data

The EUT antenna is a PIFA Antenna. It complies with the standard requirement.

Antenna Type
☒ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna

-----END OF REPORT-----

