17:55:29 19.03.2024

11N40MIMO_Ant9_High_2452

17:57:21 19.03.2024

11AX20MIMO_Ant8_Low_2412

10:01:54 20.03.2024

11AX20MIMO_Ant9_Low_2412

10:03:47 20.03.2024

11AX20MIMO_Ant8_High_2462

10:16:50 20.03.2024

11AX20MIMO_Ant9_High_2462

10:18:46 20.03.2024

11AX40MIMO_Ant8_Low_2422

14:45:21 18.04.2024

11AX40MIMO_Ant9_Low_2422

14:47:19 18.04.2024

11AX40MIMO_Ant8_High_2452

10:46:04 20.03.2024

11AX40MIMO_Ant9_High_2452

10:47:57 20.03.2024

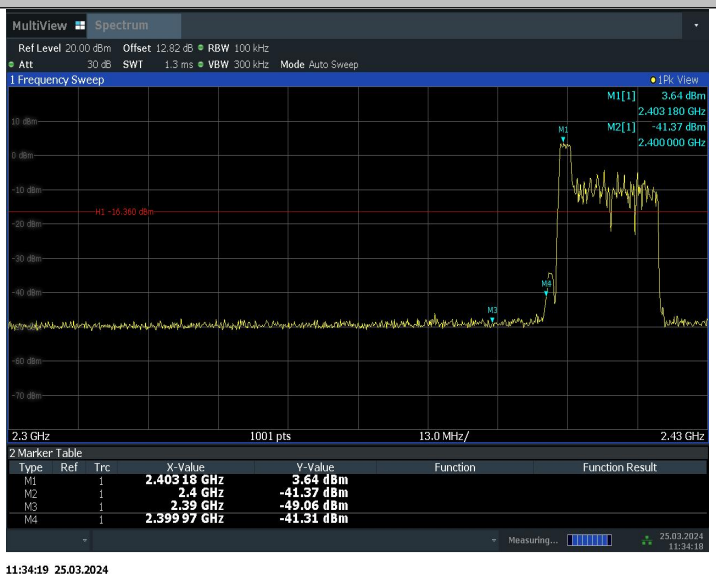
11ax RU

TestMode	Antenna	ChName	Frequency[MHz]	Ru Size	Ru Index	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant8	Low	2412	26Tone	RU0	3.64	-41.31	≤-16.36	PASS
					RU8	4.66	-46.21	≤-15.34	PASS
				52Tone	RU37	3.47	-41.08	≤-16.53	PASS
					RU40	2.99	-46.63	≤-17.01	PASS
				106Tone	RU53	4.56	-34.68	≤-15.44	PASS
					RU54	4.91	-44.88	≤-15.09	PASS
	Ant9	Low	2412	26Tone	RU0	5.48	-40.98	≤-14.52	PASS
					RU8	6.67	-47.07	≤-13.33	PASS
				52Tone	RU37	4.94	-35.74	≤-15.06	PASS
					RU40	3.54	-46.86	≤-16.46	PASS

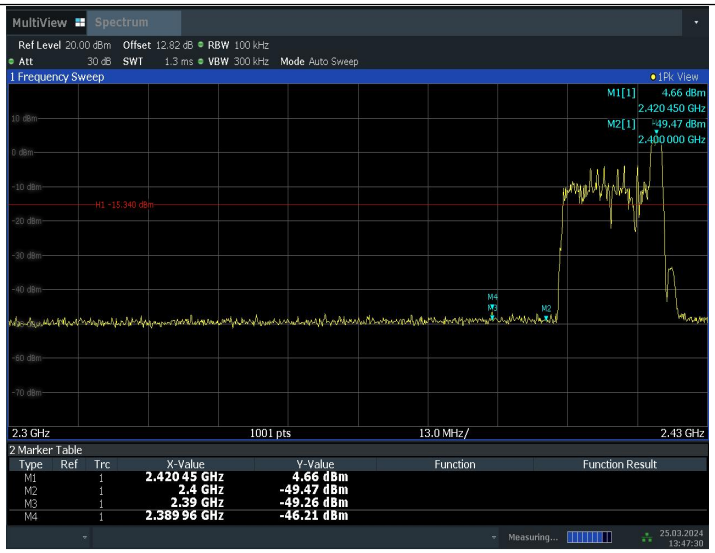
				106Tone	RU53	5.88	-23.26	≤-14.12	PASS
					RU54	4.59	-38.93	≤-15.41	PASS
	Ant8	High	2462	26Tone	RU0	4.07	-45.91	≤-15.93	PASS
					RU8	5.06	-45.62	≤-14.94	PASS
				52Tone	RU37	4.46	-46.02	≤-15.54	PASS
					RU40	4.62	-46.13	≤-15.38	PASS
				106Tone	RU53	5.29	-46.56	≤-14.71	PASS
					RU54	4.79	-44.57	≤-15.21	PASS
	Ant9	High	2462	26Tone	RU0	5.36	-46.09	≤-14.64	PASS
					RU8	2.81	-46.82	≤-17.19	PASS
				52Tone	RU37	4.76	-46.34	≤-15.24	PASS
					RU40	3.33	-45.49	≤-16.67	PASS
				106Tone	RU53	5.14	-45.57	≤-14.86	PASS
					RU54	3.87	-46.42	≤-16.13	PASS

Test Graphs

11AX20MIMO_Ant8_Low_2412_26Tone_RU0



11AX20MIMO_Ant8_Low_2412_26Tone_RU8

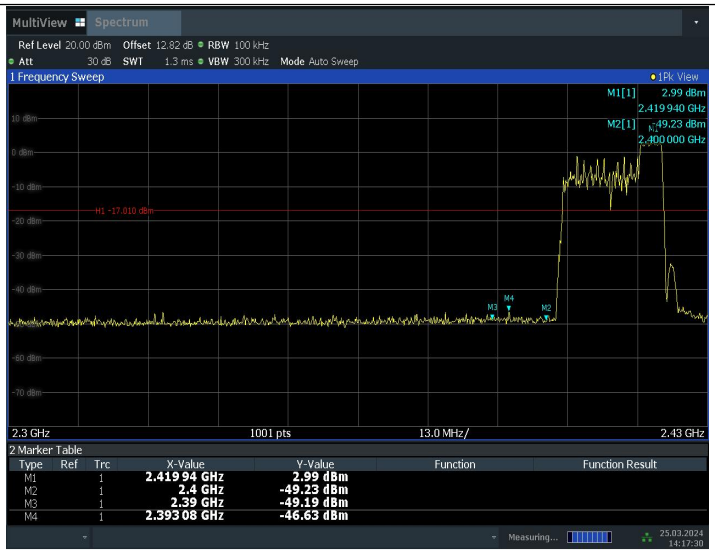


13:47:31 25.03.2024

11AX20MIMO_Ant8_Low_2412_52Tone_RU37

14:15:50 25.03.2024

11AX20MIMO_Ant8_Low_2412_52Tone_RU40



14:17:31 25.03.2024

11AX20MIMO_Ant8_Low_2412_106Tone_RU53

14:41:55 25.03.2024

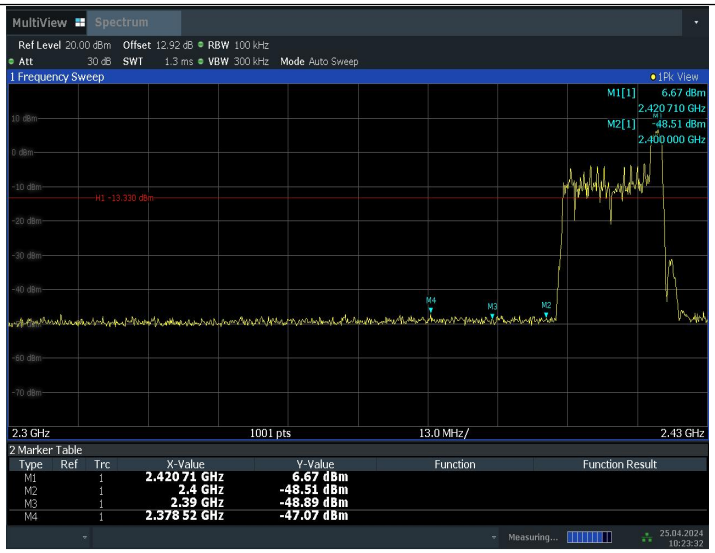
11AX20MIMO_Ant8_Low_2412_106Tone_RU54

14:43:37 25.03.2024

11AX20MIMO_Ant9_Low_2412_26Tone_RU0

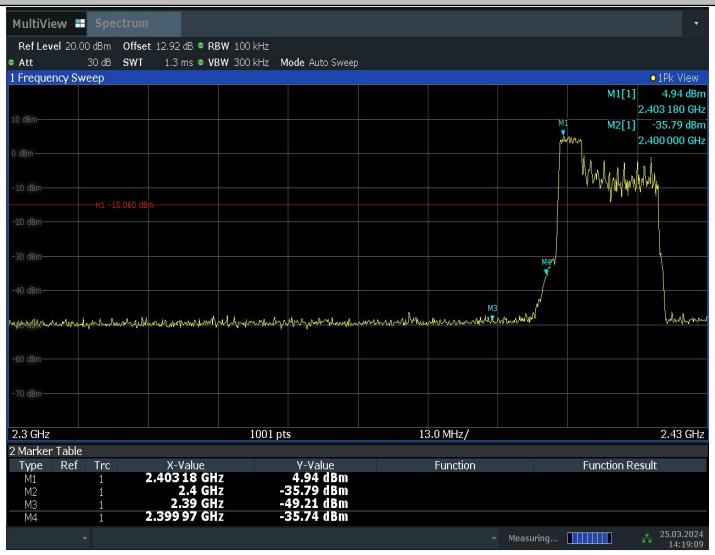
11:56:22 25.03.2024

11AX20MIMO_Ant9_Low_2412_26Tone_RU8



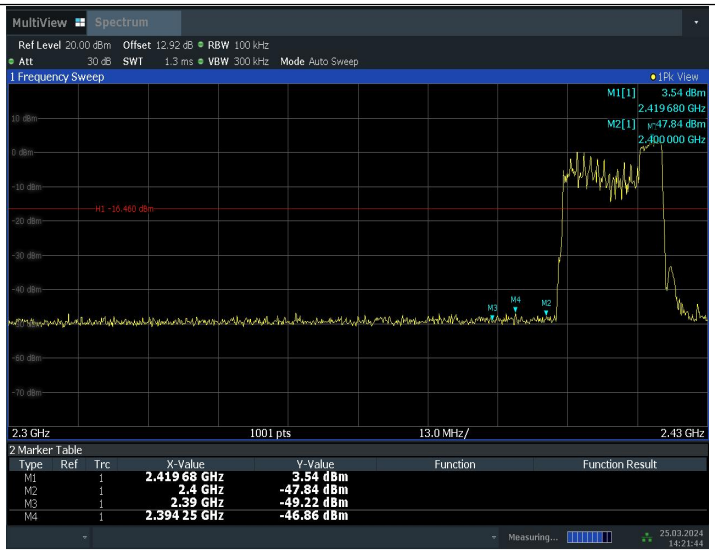
10:23:33 25.04.2024

11AX20MIMO_Ant9_Low_2412_52Tone_RU37



14:19:09 25.03.2024

11AX20MIMO_Ant9_Low_2412_52Tone_RU40



14:21:44 25.03.2024

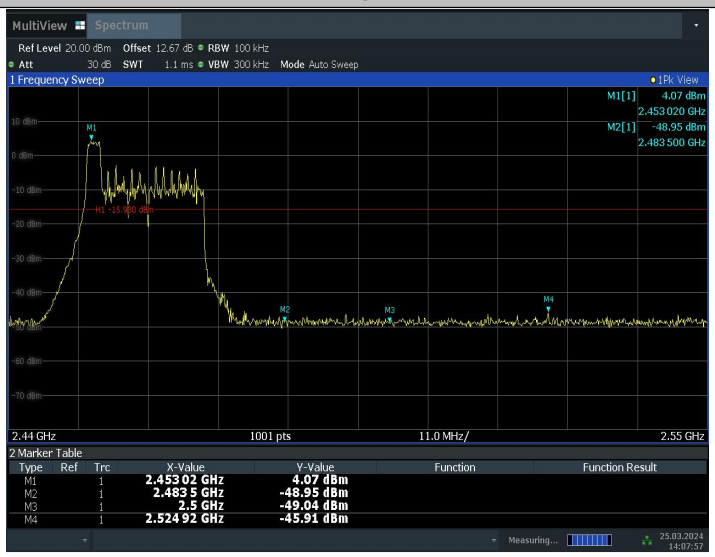
11AX20MIMO_Ant9_Low_2412_106Tone_RU53

14:45:13 25.03.2024

11AX20MIMO_Ant9_Low_2412_106Tone_RU54

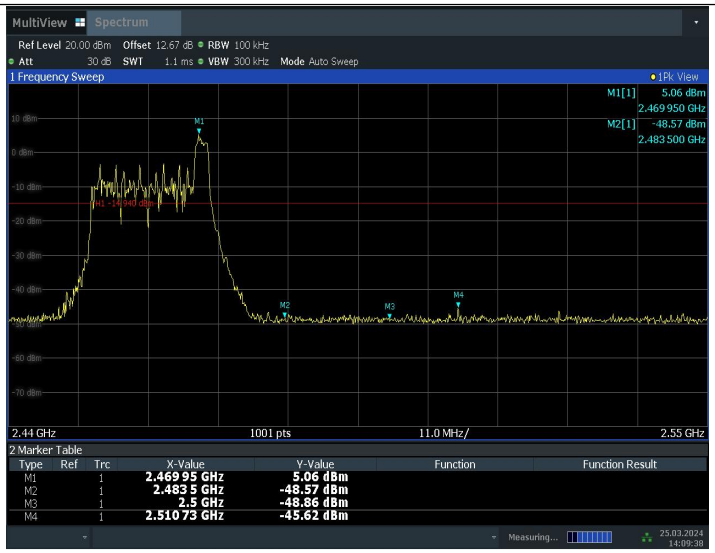
14:46:51 25.03.2024

11AX20MIMO_Ant8_High_2462_26Tone_RU0



14:07:58 25.03.2024

11AX20MIMO_Ant8_High_2462_26Tone_RU8



14:09:38 25.03.2024

11AX20MIMO_Ant8_High_2462_52Tone_RU37

14:30:44 25.03.2024

11AX20MIMO_Ant8_High_2462_52Tone_RU40

14:32:23 25.03.2024

11AX20MIMO_Ant8_High_2462_106Tone_RU53

14:57:15 25.03.2024

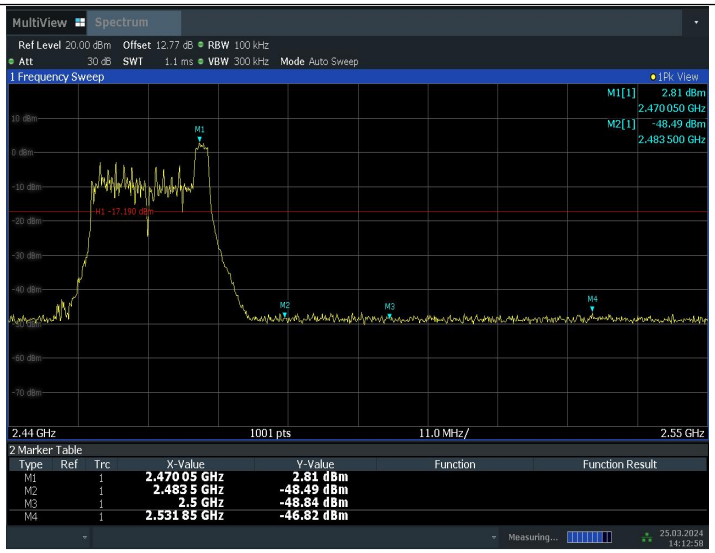
11AX20MIMO_Ant8_High_2462_106Tone_RU54

14:59:07 25.03.2024

11AX20MIMO_Ant9_High_2462_26Tone_RU0

14:11:22 25.03.2024

11AX20MIMO_Ant9_High_2462_26Tone_RU8



14:12:58 25.03.2024

11AX20MIMO_Ant9_High_2462_52Tone_RU37

14:34:00 25.03.2024

11AX20MIMO_Ant9_High_2462_52Tone_RU40

14:35:44 25.03.2024

11AX20MIMO_Ant9_High_2462_106Tone_RU53

15:00:46 25.03.2024

11AX20MIMO_Ant9_High_2462_106Tone_RU54

15:02:32 25.03.2024

Conclusion: Pass

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission – Conducted

Method of Measurement: See ANSI C63.10-2013-clause 11.11

Establish a reference level by using the following procedure:

a) Set instrument center frequency to DTS channel center frequency

b) Set the span to ≥ 1.5 times the DTS bandwidth

c) Set the RBW= 100 kHz

d) Set the VBW= 300 kHz

e) Detector = Peak

f) Sweep time = auto couple

g) Trace mode = max hold

h) Allow trace to fully stabilize

i) Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

b) Set the RBW = 100 kHz.

c) Set the VBW = 300 kHz.

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

EUT ID: UT11a

Measurement Results:

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant8	2412	Reference	9.14	9.14	---	PASS
			30~1000	9.14	-57.24	≤-10.86	PASS
			1000~26500	9.14	-43.8	≤-10.86	PASS
	Ant9	2412	Reference	8.67	8.67	---	PASS
			30~1000	8.67	-56.54	≤-11.33	PASS
			1000~26500	8.67	-43.66	≤-11.33	PASS
	Ant8	2437	Reference	9.15	9.15	---	PASS
			30~1000	9.15	-57.1	≤-10.85	PASS
			1000~26500	9.15	-43.87	≤-10.85	PASS
	Ant9	2437	Reference	8.64	8.64	---	PASS
			30~1000	8.64	-56.68	≤-11.36	PASS
			1000~26500	8.64	-43.47	≤-11.36	PASS
	Ant8	2462	Reference	9.57	9.57	---	PASS
			30~1000	9.57	-57.07	≤-10.43	PASS
			1000~26500	9.57	-42.82	≤-10.43	PASS
	Ant9	2462	Reference	9.80	9.80	---	PASS
			30~1000	9.80	-57.08	≤-10.2	PASS
			1000~26500	9.80	-43.56	≤-10.2	PASS
11G	Ant8	2412	Reference	5.27	5.27	---	PASS
			30~1000	5.27	-57.24	≤-14.73	PASS
			1000~26500	5.27	-43.9	≤-14.73	PASS
	Ant9	2412	Reference	6.31	6.31	---	PASS
			30~1000	6.31	-56.69	≤-13.69	PASS
			1000~26500	6.31	-43.59	≤-13.69	PASS
	Ant8	2437	Reference	4.33	4.33	---	PASS
			30~1000	4.33	-56.47	≤-15.67	PASS
			1000~26500	4.33	-43.97	≤-15.67	PASS
	Ant9	2437	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-56.63	≤-15.83	PASS
			1000~26500	4.17	-44.03	≤-15.83	PASS
	Ant8	2462	Reference	4.75	4.75	---	PASS
			30~1000	4.75	-55.98	≤-15.25	PASS
			1000~26500	4.75	-43.88	≤-15.25	PASS
	Ant9	2462	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-55.96	≤-15.31	PASS
			1000~26500	4.69	-44.45	≤-15.31	PASS
11N20MIMO	Ant8	2412	Reference	4.75	4.75	---	PASS
			30~1000	4.75	-57.04	≤-15.25	PASS
			1000~26500	4.75	-44.16	≤-15.25	PASS
	Ant9	2412	Reference	6.59	6.59	---	PASS

			30~1000	6.59	-56.95	≤-13.41	PASS
			1000~26500	6.59	-43.93	≤-13.41	PASS
	Ant8	2437	Reference	3.71	3.71	---	PASS
			30~1000	3.71	-57.19	≤-16.29	PASS
			1000~26500	3.71	-43.77	≤-16.29	PASS
	Ant9	2437	Reference	4.66	4.66	---	PASS
			30~1000	4.66	-56.38	≤-15.34	PASS
			1000~26500	4.66	-44.48	≤-15.34	PASS
	Ant8	2462	Reference	3.89	3.89	---	PASS
			30~1000	3.89	-56.76	≤-16.11	PASS
			1000~26500	3.89	-44.43	≤-16.11	PASS
	Ant9	2462	Reference	4.66	4.66	---	PASS
			30~1000	4.66	-56.73	≤-15.34	PASS
			1000~26500	4.66	-44.28	≤-15.34	PASS
11N40MIMO	Ant8	2422	Reference	1.20	1.20	---	PASS
			30~1000	1.20	-57.18	≤-18.8	PASS
			1000~26500	1.20	-44.12	≤-18.8	PASS
	Ant9	2422	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-56.43	≤-17.97	PASS
			1000~26500	2.03	-43.54	≤-17.97	PASS
	Ant8	2437	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-57.2	≤-19.54	PASS
			1000~26500	0.46	-44.44	≤-19.54	PASS
	Ant9	2437	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-52.86	≤-17.81	PASS
			1000~26500	2.19	-44.02	≤-17.81	PASS
	Ant8	2452	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-56.93	≤-18.42	PASS
			1000~26500	1.58	-44.02	≤-18.42	PASS
	Ant9	2452	Reference	1.98	1.98	---	PASS
			30~1000	1.98	-56.23	≤-18.02	PASS
			1000~26500	1.98	-43.57	≤-18.02	PASS
11AX20MIMO	Ant8	2412	Reference	5.63	5.63	---	PASS
			30~1000	5.63	-56.75	≤-14.37	PASS
			1000~26500	5.63	-44.33	≤-14.37	PASS
	Ant9	2412	Reference	6.08	6.08	---	PASS
			30~1000	6.08	-56.91	≤-13.92	PASS
			1000~26500	6.08	-43.84	≤-13.92	PASS
	Ant8	2437	Reference	5.42	5.42	---	PASS
			30~1000	5.42	-56.84	≤-14.58	PASS
			1000~26500	5.42	-43.97	≤-14.58	PASS
	Ant9	2437	Reference	4.05	4.05	---	PASS