11N20MIMO_WIFI1_2412

11N20MIMO_WIFI0_2437

11N20MIMO_WIFI1_2437

11N20MIMO_WIFI0_2462
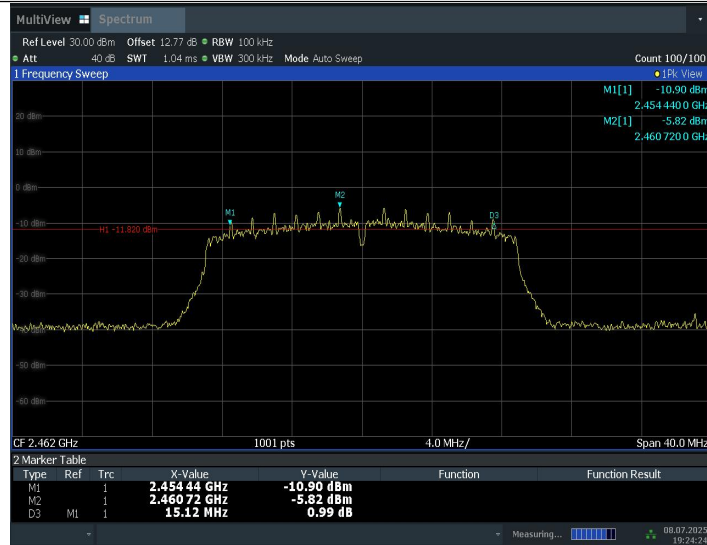
11N20MIMO_WIFI1_2462

11N40MIMO_WIFI0_2422

11N40MIMO_WIFI1_2422

11N40MIMO_WIFI0_2437

MultiView ■ Spectrum
Ref Level 30.00 dBm Offset 12.87 dB ● RBW 100 kHz
● Att 40 dB SWT 1.07 ms ● VBW 300 kHz Mode Auto Sweep
Count 100/100
1 Frequency Sweep
● 1Pk View
M1[1] -13.54 dBm
2.419 480 0 GHz
M2[1] -8.24 dBm
2.434 520 0 GHz

CF 2.437 GHz   1001 pts   8.0 MHz/   Span 80.0 MHz

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.419 48 GHz	-13.54 dBm		
M2		1	2.434 52 GHz	-8.24 dBm		
D3	M1	1	35.04 MHz	1.22 dB		
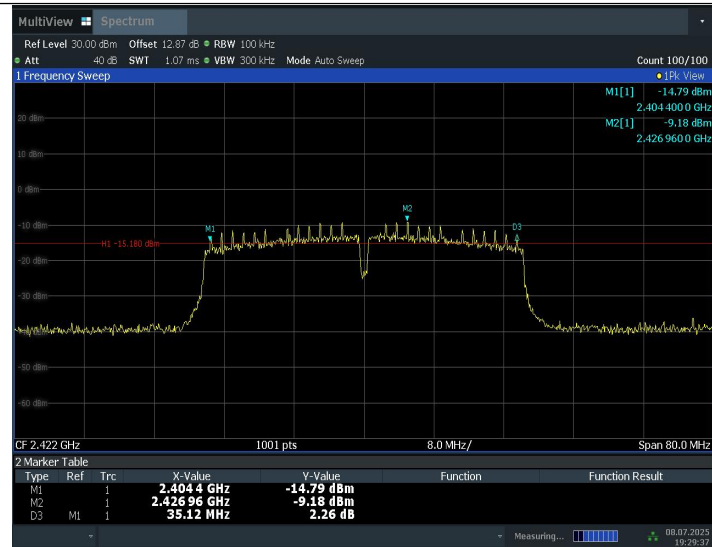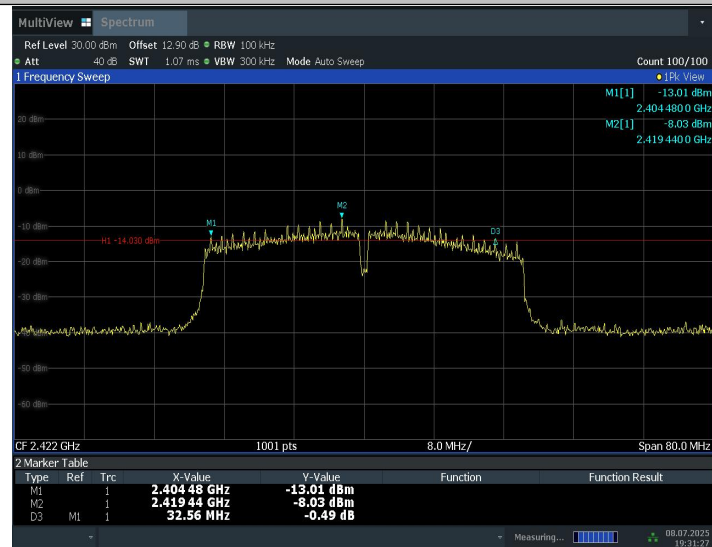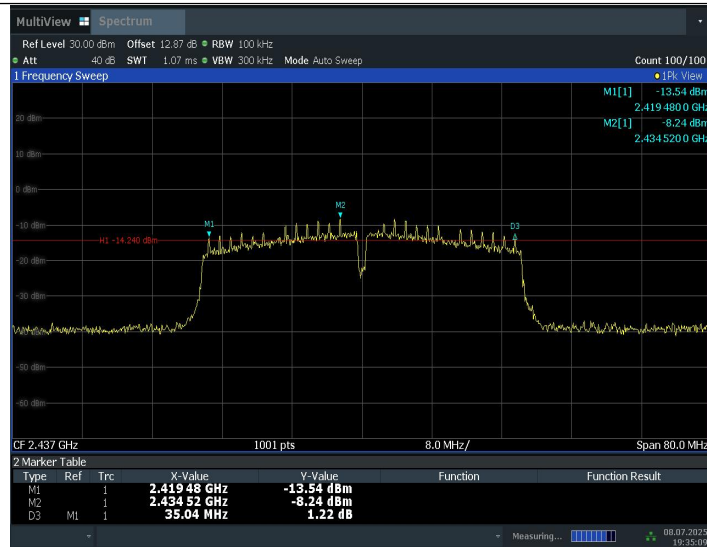
08.07.2025 19:35:09

19:35:09 08.07.2025

11N40MIMO_WIFI1_2437

MultiView ■ Spectrum
Ref Level 30.00 dBm Offset 12.90 dB ● RBW 100 kHz
● Att 40 dB SWT 1.07 ms ● VBW 300 kHz Mode Auto Sweep
Count 100/100
1 Frequency Sweep
● 1Pk View
M1[1] -13.60 dBm
2.419 400 0 GHz
M2[1] -8.39 dBm
2.431 960 0 GHz

CF 2.437 GHz   1001 pts   8.0 MHz/   Span 80.0 MHz

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.419 4 GHz	-13.60 dBm		
M2		1	2.431 96 GHz	-8.39 dBm		
D3	M1	1	35.12 MHz	1.49 dB		

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19:36:49 08.07.2025

11N40MIMO_WIFI0_2452

19:40:25 08.07.2025

11N40MIMO_WIFI1_2452
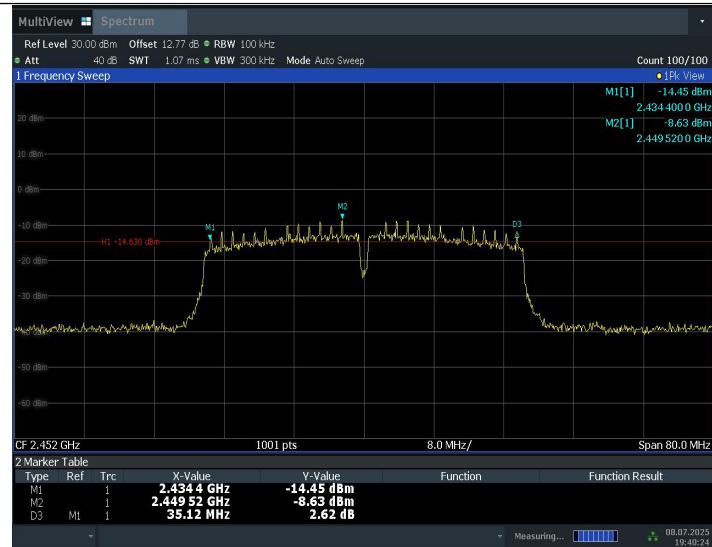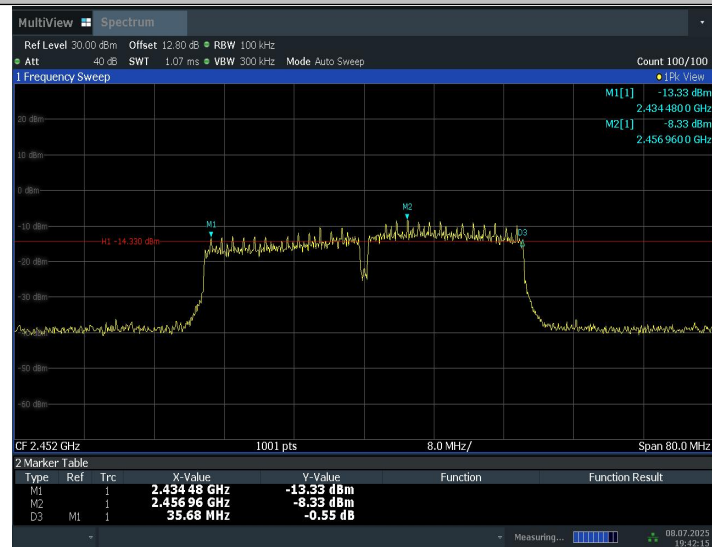

19:42:15 08.07.2025

Conclusion: Pass

A.5. Band Edges Compliance

Method of Measurement: See ANSI C63.10-2013-clause 6.10.4

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below.

a) Set Span = 100MHz

b) Sweep Time: coupled

c) Set the RBW= 100 kHz

c) Set the VBW= 300 kHz

d) Detector: Peak

e) Trace: Max hold

Measurement Limit:

| Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

EUT ID: UT01a

Measurement Result:

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	WIFI0	Low	2412	-0.34	-44.42	≤-20.34	PASS
	WIFI0	High	2462	0.64	-45.73	≤-19.36	PASS
11G	WIFI0	Low	2412	-6.70	-46.88	≤-26.7	PASS
	WIFI0	High	2462	-5.84	-46.04	≤-25.84	PASS
11N20SISO	WIFI0	Low	2412	-6.44	-46.21	≤-26.44	PASS
	WIFI0	High	2462	-5.77	-46.48	≤-25.77	PASS
11N40SISO	WIFI0	Low	2422	-9.01	-46.26	≤-29.01	PASS
	WIFI0	High	2452	-8.73	-46.27	≤-28.73	PASS
11N20MIMO	WIFI0	Low	2412	-6.53	-46.49	≤-26.53	PASS
	WIFI1	Low	2412	-6.68	-45.79	≤-26.68	PASS
	WIFI0	High	2462	-5.67	-45.53	≤-25.67	PASS
	WIFI1	High	2462	-5.69	-46.24	≤-25.69	PASS
11N40MIMO	WIFI0	Low	2422	-9.05	-46.35	≤-29.05	PASS
	WIFI1	Low	2422	-7.94	-45.86	≤-27.94	PASS
	WIFI0	High	2452	-8.56	-45.8	≤-28.56	PASS
	WIFI1	High	2452	-8.41	-45.91	≤-28.41	PASS

Note:SISO:All results have been tested, only shows the worst case

Test graphs as below:

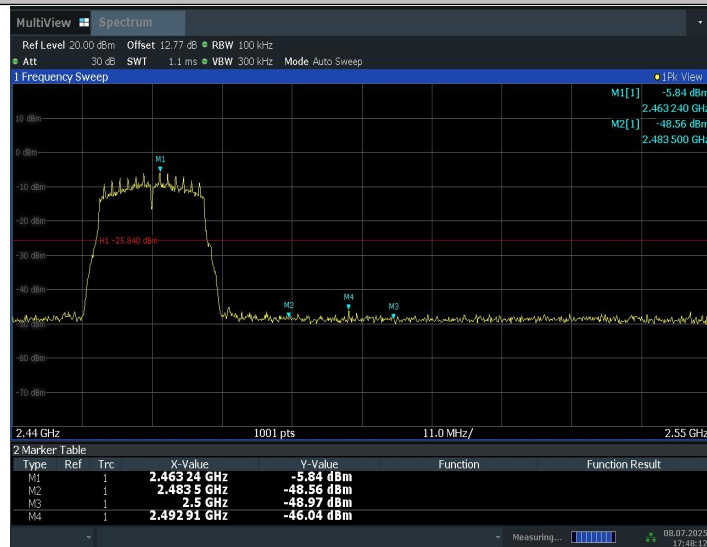| 11B_WIFI0_Low_2412 |
|---|
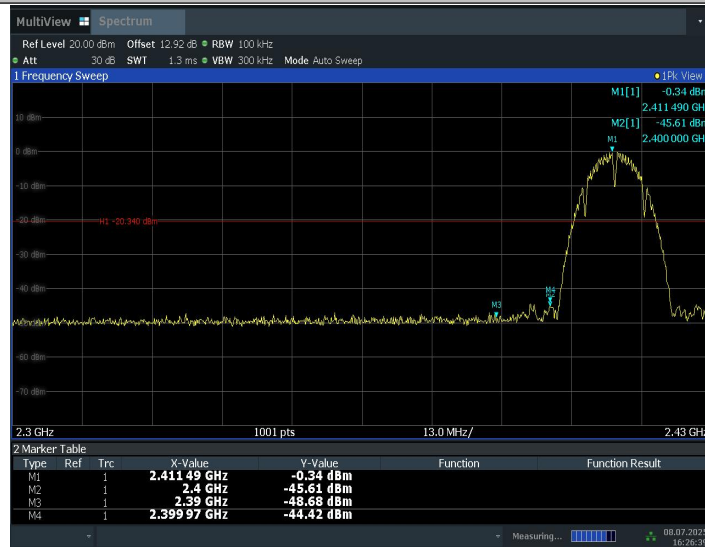
16:26:40 08.07.2025

11B_WIFI0_High_2462
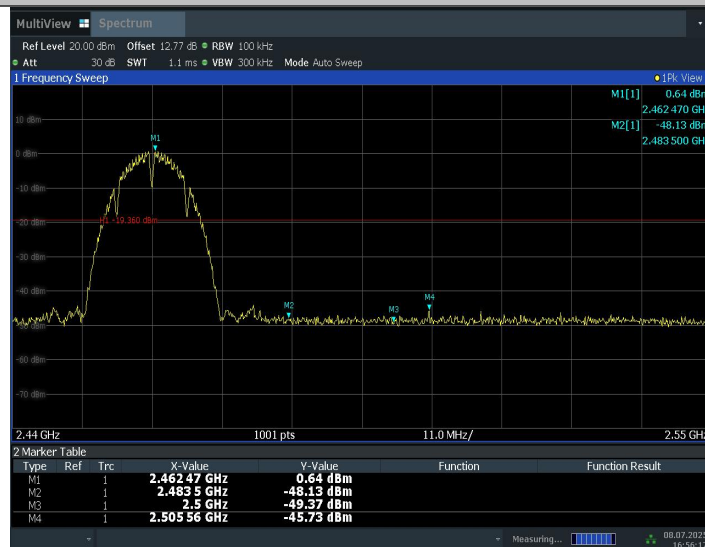
16:56:18 08.07.2025

11G_WIFI0_Low_2412

11G_WIFI0_High_2462

11N20SISO_WIFI0_Low_2412

11N20SISO_WIFI0_High_2462
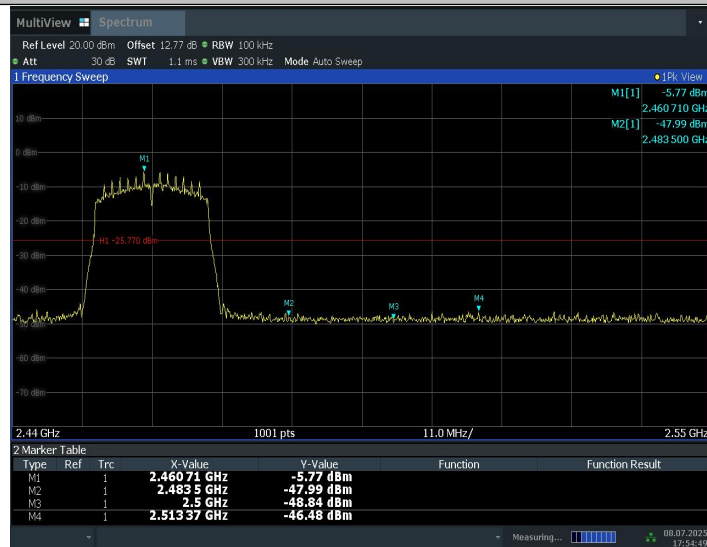
11N40SISO_WIFI0_Low_2422

11N40SISO_WIFI0_High_2452

11N20MIMO_WIFI0_Low_2412

11N20MIMO_WIFI1_Low_2412

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.410 71 GHz	-6.53 dBm		
M2		1	2.4 GHz	-48.54 dBm		
M3		1	2.39 GHz	-48.44 dBm		
M4		1	2.395 81 GHz	-46.49 dBm		
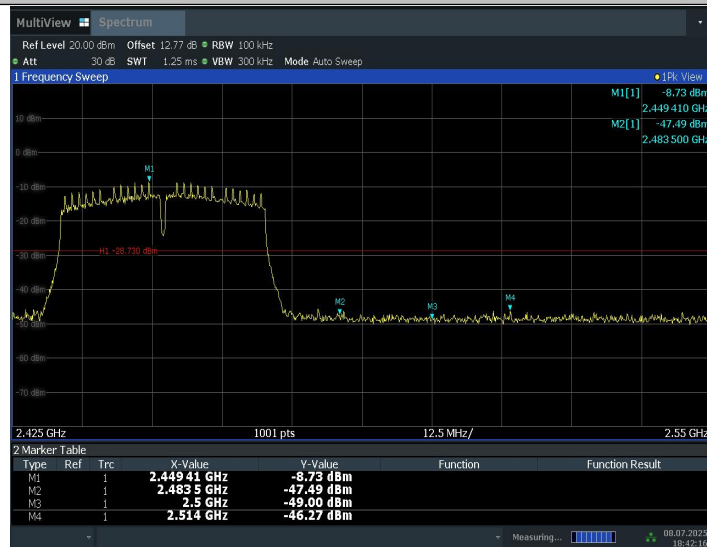
19:14:56 08.07.2025

11N20MIMO_WIFI0_High_2462

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.410 71 GHz	-6.68 dBm		
M2		1	2.4 GHz	-47.73 dBm		
M3		1	2.39 GHz	-48.32 dBm		
M4		1	2.396 85 GHz	-45.79 dBm		
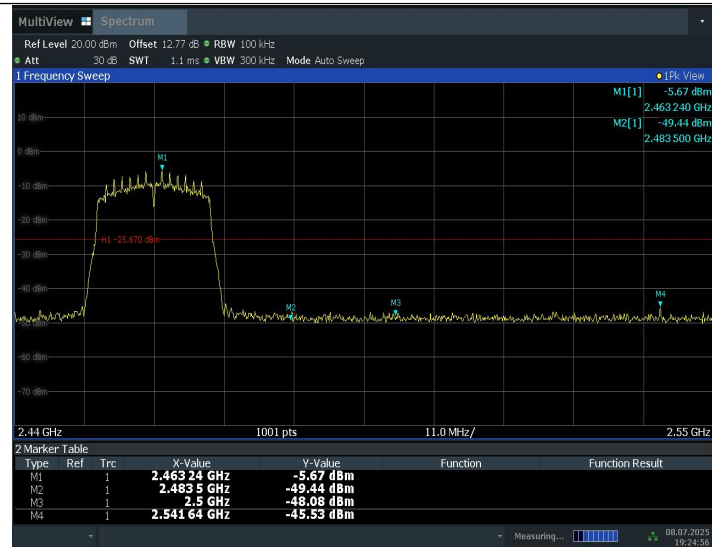
19:16:48 08.07.2025

11N20MIMO_WIFI1_High_2462
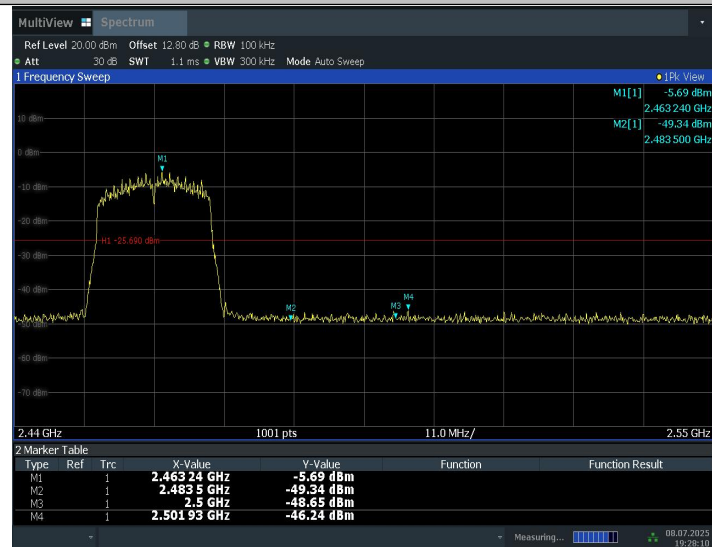
11N40MIMO_WIFI0_Low_2422

11N40MIMO_WIFI1_Low_2422

11N40MIMO_WIFI0_High_2452
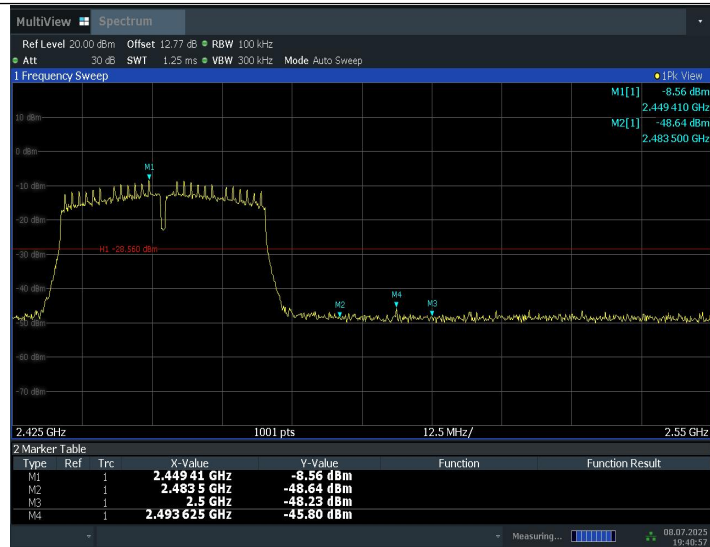
11N40MIMO_WIFI1_High_2452

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: UT01a

Measurement Results:

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	WIFI0	2412	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-56.72	≤-19.42	PASS
			1000~26500	0.58	-44.04	≤-19.42	PASS
	WIFI0	2437	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-56.94	≤-18.81	PASS

			1000~26500	1.19	-44.57	≤-18.81	PASS
	WIFI0	2462	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-57.41	≤-19.34	PASS
			1000~26500	0.66	-43.1	≤-19.34	PASS
11G	WIFI0	2412	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-55.63	≤-26.11	PASS
			1000~26500	-6.11	-44.68	≤-26.11	PASS
	WIFI0	2437	Reference	-5.77	-5.77	---	PASS
			30~1000	-5.77	-56.51	≤-25.77	PASS
			1000~26500	-5.77	-44.48	≤-25.77	PASS
	WIFI0	2462	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-57.12	≤-25.78	PASS
			1000~26500	-5.78	-44.33	≤-25.78	PASS
11N20SISO	WIFI0	2412	Reference	-6.12	-6.12	---	PASS
			30~1000	-6.12	-57.09	≤-26.12	PASS
			1000~26500	-6.12	-44.76	≤-26.12	PASS
	WIFI0	2437	Reference	-5.86	-5.86	---	PASS
			30~1000	-5.86	-56.9	≤-25.86	PASS
			1000~26500	-5.86	-44.9	≤-25.86	PASS
	WIFI0	2462	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-56.79	≤-25.75	PASS
			1000~26500	-5.75	-44.51	≤-25.75	PASS
11N40SISO	WIFI0	2422	Reference	-9.14	-9.14	---	PASS
			30~1000	-9.14	-56.65	≤-29.14	PASS
			1000~26500	-9.14	-44.59	≤-29.14	PASS
	WIFI0	2437	Reference	-8.20	-8.20	---	PASS
			30~1000	-8.20	-57.02	≤-28.2	PASS
			1000~26500	-8.20	-44.41	≤-28.2	PASS
	WIFI0	2452	Reference	-8.71	-8.71	---	PASS
			30~1000	-8.71	-56.75	≤-28.71	PASS
			1000~26500	-8.71	-43.88	≤-28.71	PASS
11N20MIMO	WIFI0	2412	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-56.95	≤-26.1	PASS
			1000~26500	-6.10	-44.02	≤-26.1	PASS
	WIFI1	2412	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-56.82	≤-26.1	PASS
			1000~26500	-6.10	-44.17	≤-26.1	PASS
	WIFI0	2437	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-56.97	≤-25.74	PASS
			1000~26500	-5.74	-44.39	≤-25.74	PASS
	WIFI1	2437	Reference	-5.87	-5.87	---	PASS
			30~1000	-5.87	-56.53	≤-25.87	PASS

			1000~26500	-5.87	-44.41	≤-25.87	PASS
	WIFI0	2462	Reference	-5.72	-5.72	---	PASS
			30~1000	-5.72	-57.29	≤-25.72	PASS
			1000~26500	-5.72	-44.53	≤-25.72	PASS
	WIFI1	2462	Reference	-5.73	-5.73	---	PASS
			30~1000	-5.73	-56.61	≤-25.73	PASS
			1000~26500	-5.73	-44.42	≤-25.73	PASS
11N40MIMO	WIFI0	2422	Reference	-9.26	-9.26	---	PASS
			30~1000	-9.26	-56.42	≤-29.26	PASS
			1000~26500	-9.26	-44.34	≤-29.26	PASS
	WIFI1	2422	Reference	-7.95	-7.95	---	PASS
			30~1000	-7.95	-57.42	≤-27.95	PASS
			1000~26500	-7.95	-44.63	≤-27.95	PASS
	WIFI0	2437	Reference	-8.06	-8.06	---	PASS
			30~1000	-8.06	-56.91	≤-28.06	PASS
			1000~26500	-8.06	-44.31	≤-28.06	PASS
	WIFI1	2437	Reference	-8.15	-8.15	---	PASS
			30~1000	-8.15	-56.76	≤-28.15	PASS
			1000~26500	-8.15	-43.74	≤-28.15	PASS
	WIFI0	2452	Reference	-8.61	-8.61	---	PASS
			30~1000	-8.61	-56.89	≤-28.61	PASS
			1000~26500	-8.61	-45.02	≤-28.61	PASS
	WIFI1	2452	Reference	-8.57	-8.57	---	PASS
			30~1000	-8.57	-56.34	≤-28.57	PASS
			1000~26500	-8.57	-43.57	≤-28.57	PASS

Note:SISO:All results have been tested, only shows the worst case

Test graphs as below:

11B_WIFI0_2412_0~Reference
11B_WIFI0_2412_30~1000
11B_WIFI0_2412_1000~26500
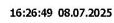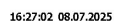
11B_WIFI0_2437_0~Reference
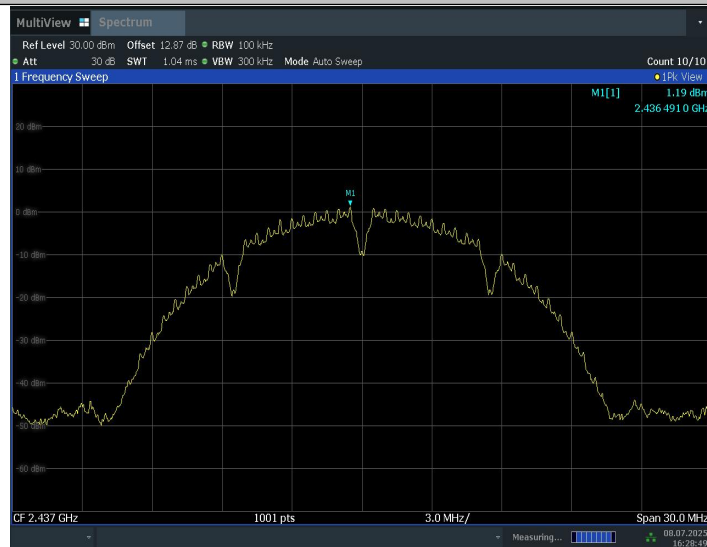
11B_WIFI0_2437_30~1000
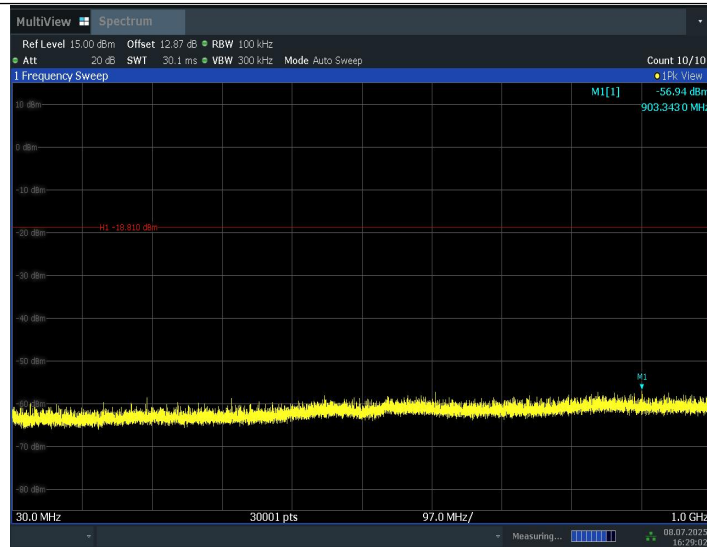
11B_WIFI0_2437_1000~26500
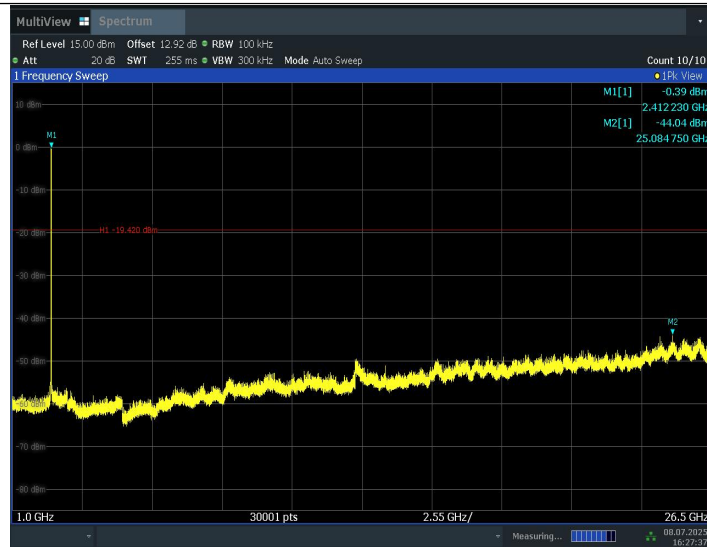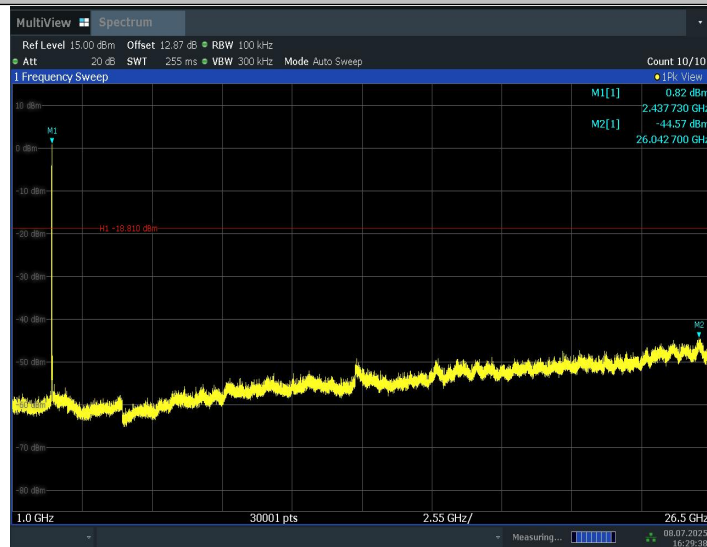

11B_WIFI0_2462_0~Reference

11B_WIFI0_2462_30~1000
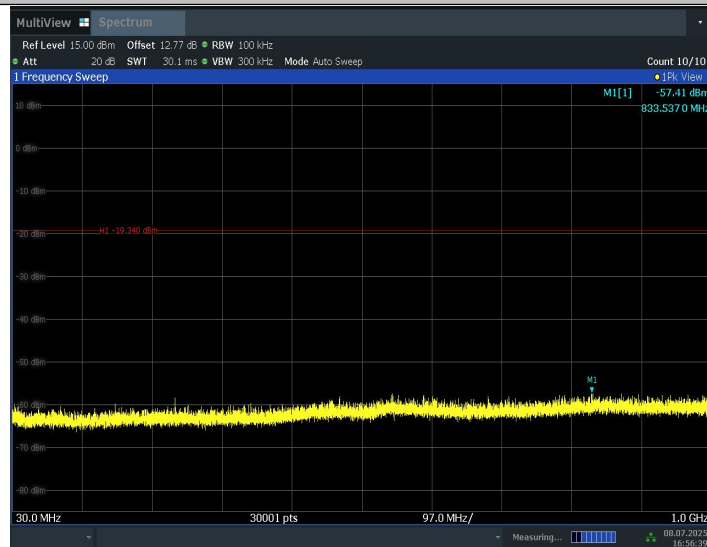
11B_WIFI0_2462_1000~26500
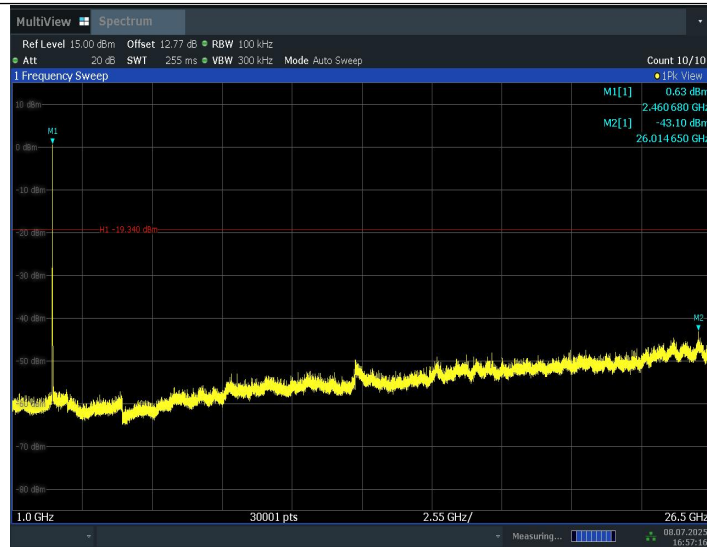
11G_WIFI0_2412_0~Reference
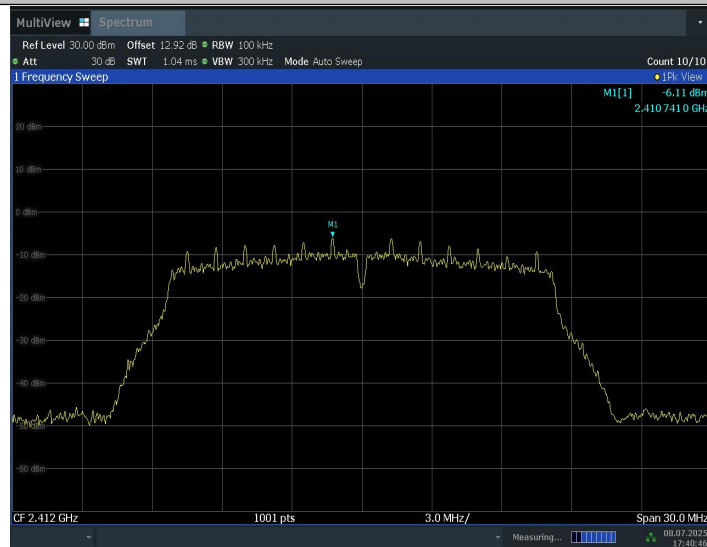
11G_WIFI0_2412_30~1000
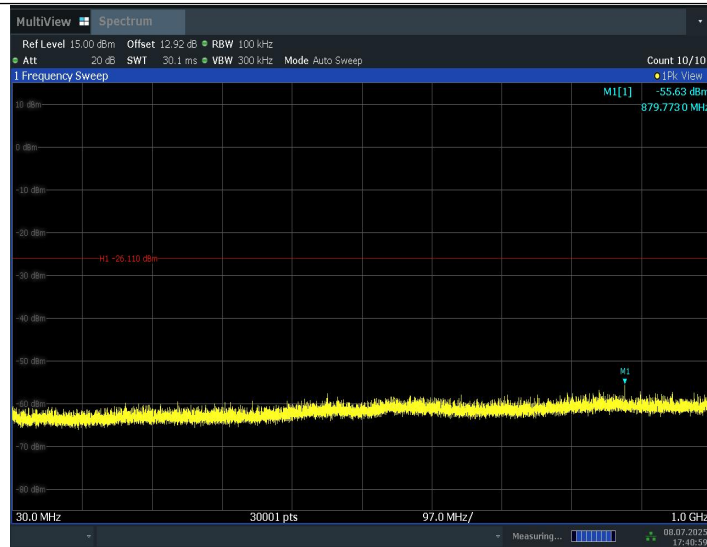
11G_WIFI0_2412_1000~26500

11G_WIFI0_2437_0~Reference