

5.5 Test Result of Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

Test Conditions: Testing Room: Temperature: 23 ° C Humidity: 47 % RH

Table 1 Open Field Radiated Emissions for 30MHz to 1GHz [Horizontal, X-axis]

Radiated Emission				Correction Factors (dB)	Duty Cycle (dB)	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)				Limit (dBμV/m)	Margin (dB)
433.92	43.83	1.00	287	25.43	-3.63	65.63	80.82	-15.19

Table 2 Open Field Radiated Emissions for 30MHz to 1GHz [Vertical, Y-axis]

Radiated Emission				Correction Factors (dB)	Duty Cycle (dB)	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)				Limit (dBμV/m)	Margin (dB)
433.92	44.20	1.00	117	25.43	-3.63	66.00	80.82	-14.82

Note:

1. Margin = Amplitude – limit, *if margin is minus means under limit.*
2. Corrected Amplitude = Reading Amplitude + Correction Factors + Duty Cycle
3. Correction factor = Antenna factor + (Cable Loss – Amplitude gain)

Table 3 Open Field Radiated Emissions for 1GHz to 5GHz [Horizontal, X-axis]

Radiated Emission				Correction Factors (dB)	Duty Cycle (dB)	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)				Limit (dBμV/m)	Margin (dB)
*1302.22	37.91	1.00	156	0.79	-3.63	35.07	53.98	-18.91
1735.56	38.07	1.00	167	0.63	-3.63	35.07	60.82	-25.75
1825.56	34.74	1.00	223	1.87	-3.63	32.98	60.82	-27.84
2170.00	41.07	1.00	17	5.22	-3.63	42.66	60.82	-18.16
2603.33	37.74	1.00	98	7.62	-3.63	41.73	60.82	-19.09

Table 4 Open Field Radiated Emissions For 1GHz to 5GHz [Vertical, Y-axis]

Radiated Emission				Correction Factors (dB)	Duty Cycle (dB)	Corrected Amplitude (dBμV/m)	FCC Class B (3 M)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)				Limit (dBμV/m)	Margin (dB)
*1302.22	37.57	1.00	336	0.79	-3.63	34.73	53.98	-19.25
1735.56	50.07	1.00	59	0.63	-3.63	47.07	60.82	-13.75
2170.00	46.74	1.00	114	5.22	-3.63	48.33	60.82	-12.49
2603.33	38.74	1.00	267	7.62	-3.63	42.73	60.82	-18.09
*3906.67	31.57	1.00	135	12.02	-3.63	39.96	53.98	-14.02

Note:

1. Margin = Corrected – Limit.
2. Corrected = Peak Amplitude + Correction Factor + Duty Cycle
3. The “ * “ means restricted bands