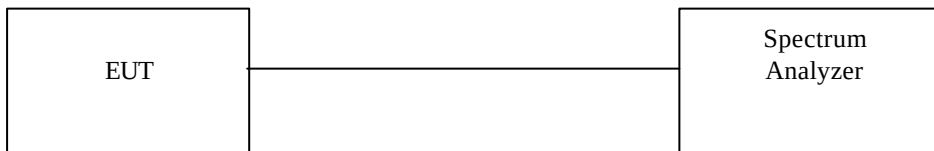


6.6 Band Edge Measurement (Section 15.407 (b) (1) (2))

6.6.1 Test Procedure (Conducted)

1. The Transmitter output of EUT was connected to the spectrum analyzer.
Equipment mode: Spectrum analyzer
Detector function: Peak mode
SPAN: 100MHz
RBW: 1 MHz
VBW: 1 MHz
Sweep time= 200 sec.
2. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed.
3. Find the next peak frequency outside the operation frequency band.

6.6.2 Test Setup (Conducted)



6.6.3 Test Data (conducted):

Band Edge measurement (Conducted)

Outside Channel	Frequency (MHz)	Spectrum Reading (dBuV)	Corrected Factor (dB)	Corrected Emissions (dBuV ERP)	Limit: (dBuV ERP)	Pass or Fail
1 (Normal)	5145.7	66.65	2.63	69.28	80	Pass
8 (Normal)	5351.5	63.55	2.63	66.18	80	Pass
9 (Normal)	5725.0	85.05	2.63	87.68	90	Pass
9 (Normal)	5715.0	75.31	2.63	77.94	80	Pass
12 (Normal)	5825.0	84.12	2.63	86.75	90	Pass
12 (Normal)	5835.0	73.59	2.63	76.22	80	Pass
1 (Turbo)	5147.7	60.96	2.63	63.59	80	Pass
3 (Turbo)	5368.6	59.66	2.63	62.29	80	Pass

4 (Turbo)	5725.0	42.43	2.63	45.06	90	Pass
4 (Turbo)	5715.0	30.09	2.63	32.72	80	Pass
5 (Turbo)	5825.0	45.31	2.63	47.94	90	Pass
5 (Turbo)	5835.0	34.62	2.63	37.25	80	Pass

Note: Corrected Emissions = Spectrum + Corrected Factor

Corrected Factor = Cable Loss + Antenna Peak Gain (dBi)

Band Edge Conducted measurement (Normal Mode Channel 1)



Band Edge Conducted Measurement (Normal Mode Channel 8)



Band Edge Conducted Measurement (Normal Mode Channel 9)



Band Edge Conducted Measurement (Normal Mode Channel 12)



Band Edge Conducted measurement (Turbo Mode Channel 1)



Band Edge Conducted Measurement (Turbo Mode Channel 3)



Band Edge Conducted Measurement (Turbo Mode Channel 4)



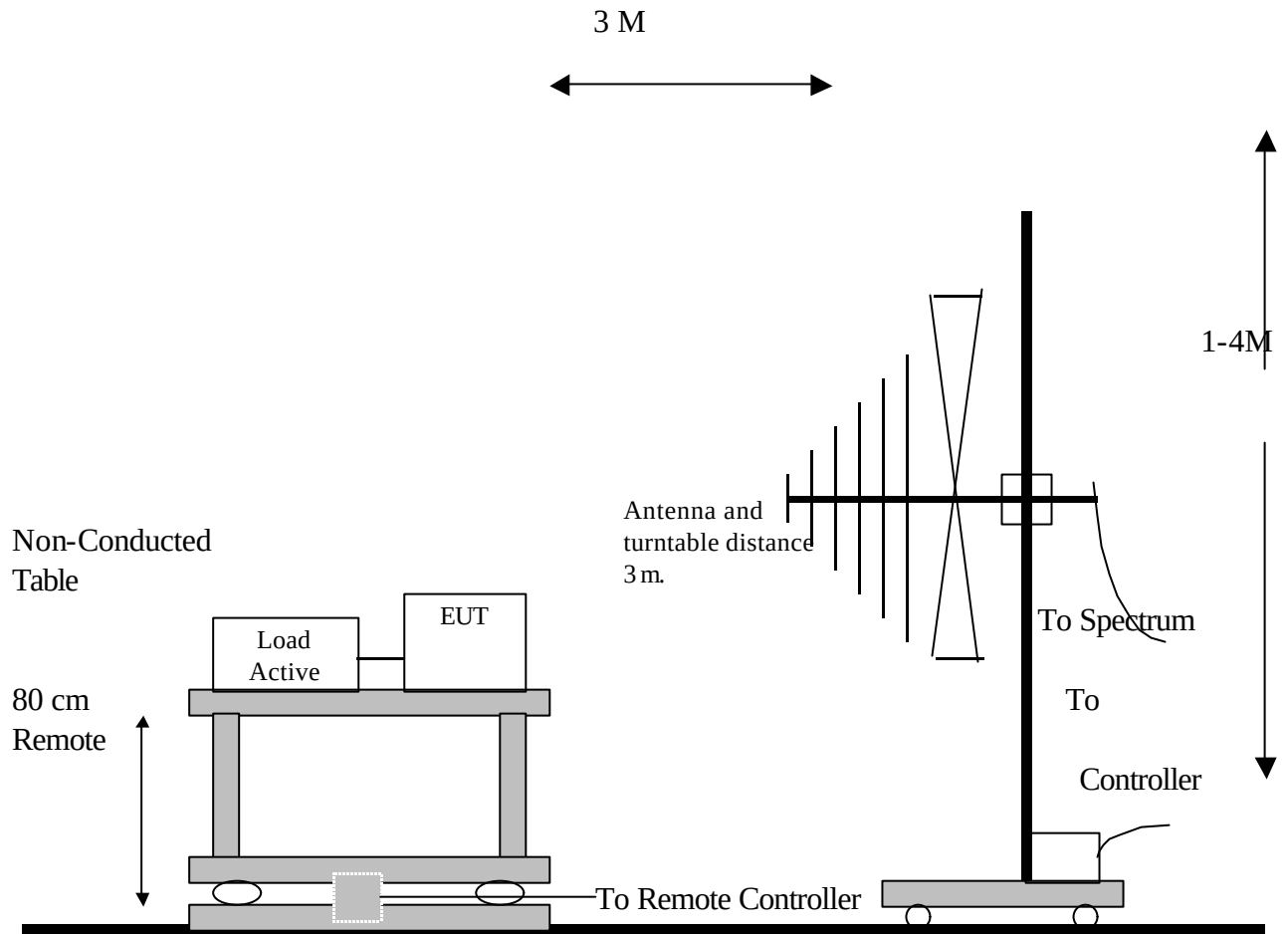
Band Edge Conducted Measurement (Turbo Mode Channel 5)



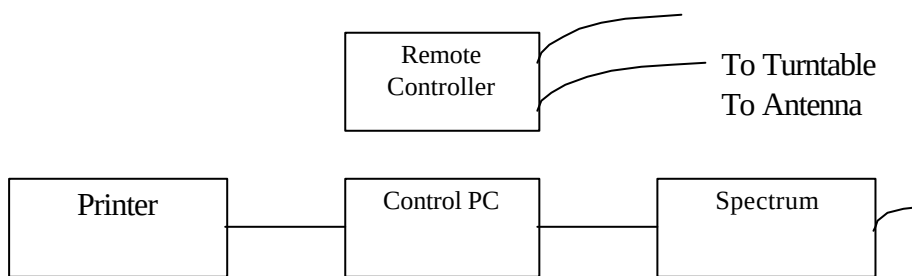
6.6.4 Bandedge Measurement Test Procedure (Radiated)

1. Antenna and Turntable test procedure same as Radiated Emissions measurement listed in Para. 6.5
Equipment mode: Spectrum analyzer
Detector function: Peak mode SPAN: 100MHz
RBW=1 MHz, VBW = 1MHz for Peak measurement
RBW=1 MHz, VBW = 10 Hz for Average measurement
Sweep time= 200 msec for peak measurement, 20 sec. for Average
2. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed.
3. Find the next peak frequency outside the operation frequency band.
4. Get the spectrum reading after Maximum Hold function is completed.

6.6.5 Test Setup (Radiated)



Metal Full Soldered Ground Plane



6.6.6 Test Data (Radiated):**Band Edge measurement (Radiated)**

Outside Channel	Frequency (MHz)	Spectrum Reading (dBuV)	Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Pass/Fail
1 (Normal)	5139.3	21.15 (pk)	38.1	59.25	74	Pass
1 (Normal)	5120.0	8.63 (av)	38.1	46.73	54	Pass
8 (Normal)	5369.1	20.87(pk)	38.1	58.97	74	Pass
8 (Normal)	5355.8	8.98(av)	38.1	47.08	54	Pass
9 (Normal)	5725.0	32.4(pk)	37.3	69.7	74	Pass
9 (Normal)	5725.0	14.41(av)	37.3	51.71	54	Pass
12 (Normal)	5825.0	30.55(pk)	37.3	67.85	74	Pass
12 (Normal)	5825.0	13.95(av)	37.3	51.25	54	Pass
1 (Turbo)	5147.3	20.63(pk)	38.1	58.73	74	Pass
1 (Turbo)	5149.8	7.54 (av)	38.1	45.64	54	Pass
3 (Turbo)	5350.7	20.61 (pk)	38.1	58.71	74	Pass
3 (Turbo)	5376.1	7.79 (av)	38.1	45.89	54	Pass
4 (Turbo)	5725.0	31.27(pk)	37.3	68.57	74	Pass
4 (Turbo)	5725.0	14.35(av)	37.3	51.65	54	Pass
5 (Turbo)	5825.2	32.78(pk)	37.3	70.08	74	Pass
5 (Turbo)	5825.2	14.30(av)	37.3	51.60	54	Pass

Note: “pk”: peak reading

“av”: average reading

Emission Level = Spectrum Reading + Correction Factor

Correction Factor = Antenna Factor + cable loss

Both Horizontal and Vertical polarization have been tested and the worst data is listed above.