

Below is a copy of the radiated emissions test of our latest test report based on verification testing of our Model 2100 RFID Reader with the 14.5 dB gain antenna at our FCC certified OATS.

Test Results

3.1 Radiated Emissions Test

3.1.1 Test Procedure

The EUT in its worst case typical configuration is rotated on the turntable 360° while the maximum peak readings are recorded. Then the suspicious peaks are rescanned with maximization. Under maximization the receiver is in QP mode; the azimuth angle, the antenna height (1 to 4m) and the interconnecting cables are modified for worst case reading. The results are listed below.

Limit: **FCC Part 15** Class: **A** Distance (m): **3M**

3.1.2 Test Results

Frequency (MHz)	Reading Peak (dBuV/m)	QP (dBuV/m)	Antenna Factor (dB)	System Loss (dB)	Limit (dBuV/m)	Azimuth Angle (°)	Antenna Height (m)	Polariz.	Margin (dB)
56.98	50.92	41.37	6.69	13.41	49.00	125.00	1.00	Horiz.	7.63
79.42	52.44	43.82	8.77	12.98	49.00	120.00	1.00	Horiz.	5.18
86.80	48.44	41.71	9.76	12.83	49.00	135.00	1.50	Horiz.	7.29
109.24	53.18	47.35	11.72	12.39	53.50	125.00	1.50	Horiz.	6.15
120.88	49.46	47.84	12.32	12.16	53.50	115.00	1.50	Horiz.	5.66
131.67	53.47	45.91	12.41	11.88	53.50	120.00	1.00	Horiz.	7.59
135.03	50.69	49.55	12.39	11.77	53.50	120.00	1.00	Horiz.	3.95
155.53	55.80	47.62	11.47	11.18	53.50	110.00	1.00	Horiz.	5.88
227.85	53.66	47.23	11.29	13.23	56.50	135.00	1.00	Horiz.	9.27
240.17	56.34	49.45	12.10	14.71	56.50	125.00	1.00	Horiz.	7.05
425.50	58.26	52.94	16.55	21.22	56.50	90.00	1.00	Horiz.	3.56
431.50	58.02	54.11	16.64	21.23	56.50	110.00	1.00	Horiz.	2.39
427.00	61.32	53.10	16.58	21.22	56.50	95.00	1.00	Vert.	3.40
440.50	60.46	52.91	16.77	21.26	56.50	125.00	1.50	Vert.	3.59
192.92	53.27	44.16	9.62	10.33	53.50	0.00	1.00	Vert.	9.34
48.46	55.08	44.52	9.49	13.54	49.00	190.00	1.00	Vert.	4.48
49.03	48.73	47.16	8.92	13.51	49.00	185.00	1.00	Vert.	1.84
80.27	47.72	46.58	8.96	12.95	49.00	200.00	1.00	Vert.	2.42
120.09	50.53	44.85	12.32	12.16	53.50	165.00	1.50	Vert.	8.65
188.81	52.86	44.73	9.64	10.42	53.50	170.00	1.00	Vert.	8.77
86.23	48.23	39.81	9.76	12.83	49.00	155.00	1.00	Vert.	9.19
132.52	52.36	42.66	12.41	11.85	53.50	195.00	1.50	Vert.	10.84
243.45	54.03	45.39	12.29	15.05	56.50	355.00	1.00	Vert.	11.11
343.00	48.32	42.77	14.65	21.28	56.50	115.00	1.00	Vert.	13.73
228.63	54.41	46.21	11.35	13.35	56.50	135.00	1.00	Horiz.	10.29