

Attachment 1 : Summary of Test Results

The test results in the emission and immunity were performed according to the requirements of measurement standard and process. Quietek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The test data of the emission and immunity are listed as the attached data.

All the tests were carried out with the EUT in normal operation, which was defined as:

[Mode 1: Image Scanner \(Link PC by SCSI port\)](#)

The EUT passed all the tests.

The uncertainty is calculated in accordance with NAMAS NIS 81, The total uncertainty for this test is as follows:

➤ **Emission Test**

- Uncertainty in the Conducted Emission Test: $< \pm 2.0 \text{ dB}$
- Uncertainty in the field strength measured: $< \pm 4.0 \text{ dB}$



CONDUCTED EMISSION DATA

Date of Test : Feb. 18, 2000 EUT : MRS-2500DL
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.183	0.01	0.10	44.02	44.13	64.34
0.219	0.02	0.10	41.86	41.98	62.86
0.252	0.03	0.10	38.41	38.54	61.71
1.916	0.14	0.13	35.26	35.53	56.00
*4.232	0.19	0.16	38.59	38.94	56.00
20.248	0.36	0.46	28.17	28.98	60.00

Average:

0.183	0.01	0.10	33.90	34.01	54.35
0.218	0.02	0.10	33.20	33.32	52.89
0.251	0.03	0.10	30.00	30.13	51.72
1.910	0.14	0.13	30.40	30.67	46.00
4.230	0.19	0.16	31.60	31.95	46.00
20.200	0.36	0.45	20.80	21.61	50.00

Remarks :

1. “ * ” means that this data is the worst emission level.



CONDUCTED EMISSION DATA

Date of Test : Feb. 18, 2000 EUT : MRS-2500DL
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.151	0.00	0.10	44.92	45.02	65.93
0.216	0.02	0.10	41.64	41.76	62.96
0.252	0.03	0.10	37.49	37.62	61.71
1.771	0.14	0.12	32.48	32.74	56.00
*4.052	0.19	0.16	39.67	40.02	56.00
17.623	0.34	0.41	24.09	24.84	60.00

Average:

0.151	0.00	0.10	31.00	31.10	55.94
0.216	0.02	0.10	32.20	32.32	52.97
0.251	0.03	0.10	29.20	29.33	51.72
1.770	0.14	0.12	27.10	27.36	46.00
4.050	0.19	0.16	32.60	32.95	46.00
17.600	0.34	0.40	15.50	16.24	50.00

Remarks :

1. “ * ” means that this data is the worst emission level.



RADIATED EMISSION DATA

Date of Test : Feb. 18, 2000 EUT : MRS-2500DL
 Test Mode : Mode 1 Test Site : No.1 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Horizontal				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
31.990	1.17	15.89	0.00	7.25	24.31	5.69	30.00	395	76
54.000	1.38	6.64	0.00	4.29	12.31	17.69	30.00	395	76
66.950	1.50	6.16	0.00	7.32	14.99	15.01	30.00	395	76
75.320	1.59	7.42	0.00	10.39	19.40	10.60	30.00	395	76
83.250	1.66	8.60	0.00	7.65	17.92	12.08	30.00	395	76
135.000	2.16	11.49	0.00	10.70	24.35	5.65	30.00	395	76
146.250	2.27	10.96	0.00	9.80	23.03	6.97	30.00	395	76
*153.750	2.35	10.98	0.00	13.56	26.89	3.11	30.00	395	76
162.500	2.43	9.69	0.00	11.59	23.71	6.29	30.00	395	76
172.500	2.52	9.43	0.00	9.77	21.72	8.28	30.00	395	76
186.250	2.65	8.98	0.00	10.89	22.52	7.48	30.00	395	76
196.250	2.76	9.10	0.00	15.01	26.87	3.13	30.00	395	76
205.000	2.83	9.38	0.00	10.82	23.03	6.97	30.00	395	76
243.755	3.20	11.82	0.00	6.12	21.14	15.86	37.00	395	76

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss



RADIATED EMISSION DATA

Date of Test : Feb. 18, 2000 EUT : MRS-2500DL
 Test Mode : Mode 1 Test Site : No.1 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss Factor			Level	Vertical				
MHz	dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m	cm deg
=====									
39.998	1.24	12.84	0.00	9.16	23.24	6.76	30.00	99	78
43.745	1.28	10.67	0.00	6.62	18.57	11.43	30.00	99	78
53.748	1.37	6.74	0.00	8.69	16.81	13.19	30.00	99	78
60.000	1.44	6.00	0.00	13.26	20.70	9.30	30.00	99	78
66.680	1.50	5.46	0.00	7.83	14.79	15.21	30.00	99	78
74.740	1.58	6.83	0.00	14.06	22.47	7.53	30.00	99	78
84.600	1.67	8.26	0.00	12.75	22.68	7.32	30.00	99	78
136.247	2.18	11.55	0.00	12.13	25.86	4.14	30.00	99	78
*147.497	2.28	10.68	0.00	13.68	26.64	3.36	30.00	99	78
160.000	2.40	10.28	0.00	13.22	25.90	4.10	30.00	99	78
172.497	2.52	9.16	0.00	12.62	24.31	5.69	30.00	99	78

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss.

