

Attachment 1 : Summary of Test Results

The test results in the emission was 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 is listed as the attached data.

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

Mode 1: PORTRAN (Adapter)

Mode 2: Kentex (Adapter)

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 : Sep. 9, 1999 EUT : Digital Camera
 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
=====					
0.154	0.00	0.10	47.46	47.56	65.77
*0.190	0.01	0.10	46.47	46.58	64.05
0.321	0.04	0.10	32.39	32.53	59.69
0.431	0.06	0.10	35.02	35.18	57.23
0.774	0.09	0.10	24.41	24.60	56.00
2.204	0.15	0.13	31.51	31.79	56.00

Average:

0.154	0.00	0.10	23.20	23.30	55.78
0.189	0.01	0.10	28.00	28.11	54.08
0.321	0.04	0.10	4.80	4.94	49.68
0.431	0.06	0.10	8.70	8.86	47.23
0.774	0.09	0.10	8.00	8.19	46.00
2.200	0.15	0.13	20.30	20.58	46.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : Sep. 9, 1999 EUT : Digital Camera
 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
=====					
*0.191	0.01	0.10	48.96	49.07	64.00
0.222	0.02	0.10	40.21	40.33	62.76
0.284	0.03	0.10	34.14	34.27	60.71
0.729	0.08	0.10	39.75	39.93	56.00
1.113	0.11	0.10	37.73	37.94	56.00
1.271	0.11	0.11	36.98	37.21	56.00

Average:

0.191	0.01	0.10	30.40	30.51	53.99
0.222	0.02	0.10	16.40	16.52	52.74
0.284	0.03	0.10	10.80	10.93	50.70
0.729	0.08	0.10	31.20	31.38	46.00
1.110	0.11	0.10	21.80	22.01	46.00
1.270	0.11	0.11	22.90	23.13	46.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : Sep. 9, 1999 EUT : Digital Camera
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line1	Line1	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
*0.165	0.01	0.10	54.43	54.54	65.21
0.208	0.02	0.10	48.12	48.24	63.29
0.250	0.03	0.10	42.56	42.69	61.77
0.289	0.03	0.10	37.48	37.61	60.55
2.279	0.15	0.14	31.12	31.41	56.00
8.692	0.26	0.19	47.17	47.63	60.00

Average:

0.165	0.01	0.10	44.40	44.51	55.21
0.208	0.02	0.10	38.20	38.32	53.28
0.250	0.03	0.10	32.50	32.63	51.76
0.289	0.03	0.10	28.30	28.43	50.55
2.280	0.15	0.14	23.00	23.29	46.00
8.690	0.26	0.19	43.40	43.86	50.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : Sep. 9, 1999 EUT : Digital Camera
 Test Mode : Mode 2 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
	Loss	Factor	Line2	Line2	
MHz	dB	dB	dBuV	dBuV	dBuV
=====					
0.164	0.00	0.10	52.25	52.35	65.25
0.207	0.02	0.10	46.49	46.61	63.33
0.248	0.03	0.10	41.38	41.51	61.82
0.290	0.03	0.10	37.80	37.93	60.52
0.332	0.04	0.10	35.96	36.10	59.41
*8.693	0.26	0.19	47.43	47.89	60.00

Average:

0.164	0.00	0.10	42.80	42.90	55.26
0.207	0.02	0.10	37.80	37.92	53.32
0.248	0.03	0.10	35.00	35.13	51.82
0.290	0.03	0.10	32.80	32.93	50.52
0.332	0.04	0.10	31.00	31.14	49.40
8.693	0.26	0.19	43.60	44.06	50.00

Remarks :

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



RADIATED EMISSION DATA

Date of Test : Sep. 9, 1999 EUT : Digital Camera
 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
=====									
85.910	1.69	8.88	0.00	7.50	18.08	11.92	30.00 394	93	
122.729	2.05	11.93	0.00	6.42	20.40	9.60	30.00 394	107	
159.547	2.40	10.32	0.00	9.77	22.49	7.51	30.00 394	1	
184.092	2.64	9.18	0.00	7.97	19.78	10.22	30.00 394	63	
*208.637	2.87	9.56	0.00	10.16	22.59	7.41	30.00 394	159	
220.910	2.99	9.53	0.00	6.39	18.91	11.09	30.00 394	13	
233.183	3.11	10.71	0.00	6.76	20.58	16.42	37.00 394	189	

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 : Sep. 9, 1999 EUT : Digital Camera
 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
=====									
49.090	1.34	7.80	0.00	15.95	25.09	4.91	30.00	100	175
85.910	1.69	8.56	0.00	11.94	22.19	7.81	30.00	100	48
134.999	2.16	11.29	0.00	11.27	24.72	5.28	30.00	100	88
171.817	2.51	9.26	0.00	12.32	24.10	5.90	30.00	100	203
184.090	2.64	9.01	0.00	12.02	23.66	6.34	30.00	100	71
196.367	2.76	8.94	0.00	10.08	21.78	8.22	30.00	100	12
*208.640	2.87	9.52	0.00	12.83	25.22	4.78	30.00	100	47
220.913	2.99	9.32	0.00	10.43	22.74	7.26	30.00	100	203
294.549	3.69	13.42	0.00	7.78	24.89	12.11	37.00	100	115
527.730	4.94	17.43	0.00	1.96	24.33	12.67	37.00	322	203
589.101	5.26	18.21	0.00	3.39	26.85	10.15	37.00	292	203
662.738	5.65	18.51	0.00	2.36	26.52	10.48	37.00	260	163

Remarks:

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3. Emission Level = Reading Level + Antenna Factor + Cable loss



RADIATED EMISSION DATA

Date of Test	:	Sep. 9, 1999	EUT	:	Digital Camera
Test Mode	:	Mode 2	Test Site	:	No.1 Open Test Site

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit	Ant	Turn
	Loss			Level	Horizontal				
MHz	Factor								
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	cm	deg
=====									
184.096	2.64	9.18	0.00	10.66	22.47	7.53	30.00 394	89	
196.369	2.76	9.10	0.00	6.91	18.77	11.23	30.00 394	64	
208.642	2.87	9.56	0.00	10.00	22.43	7.57	30.00 394	76	
466.376	4.61	16.86	0.00	10.62	32.10	4.90	37.00 186	25	
*490.922	4.75	17.25	0.00	11.58	33.57	3.43	37.00 186	164	
515.467	4.87	17.27	0.00	9.64	31.78	5.22	37.00 164	182	
540.012	5.00	18.87	0.00	9.64	33.51	3.49	37.00 172	148	
613.654	5.39	19.03	0.00	9.05	33.47	3.53	37.00 144	142	
662.745	5.65	19.13	0.00	6.75	31.53	5.47	37.00 143	161	
711.836	5.90	19.58	0.00	5.74	31.22	5.78	37.00 168	203	
785.472	6.28	20.07	0.00	4.86	31.21	5.79	37.00 173	178	

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 : Sep. 9, 1999 EUT : Digital Camera
 Test Mode : Mode 2 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
=====									
49.096	1.34	7.80	0.00	7.51	16.65	13.35	30.00	99	58
61.368	1.45	6.15	0.00	13.82	21.41	8.59	30.00	99	150
73.641	1.57	6.63	0.00	12.78	20.98	9.02	30.00	99	123
85.914	1.69	8.56	0.00	12.01	22.26	7.74	30.00	99	30
110.459	1.93	11.62	0.00	9.86	23.40	6.60	30.00	99	68
159.550	2.40	10.28	0.00	12.18	24.86	5.14	30.00	99	71
171.823	2.51	9.26	0.00	11.12	22.90	7.10	30.00	99	70
184.096	2.64	9.01	0.00	13.92	25.56	4.44	30.00	99	144
196.368	2.76	8.94	0.00	9.11	20.81	9.19	30.00	99	7
208.641	2.87	9.52	0.00	11.34	23.73	6.27	30.00	99	124
294.550	3.69	13.42	0.00	11.44	28.55	8.45	37.00	99	163
368.186	4.11	15.60	0.00	7.50	27.21	9.79	37.00	99	164
466.374	4.61	17.12	0.00	7.78	29.52	7.48	37.00	99	81
540.010	5.00	18.25	0.00	2.90	26.15	10.85	37.00	267	203
*613.651	5.39	18.43	0.00	10.13	33.95	3.05	37.00	250	148
785.472	6.28	19.12	0.00	5.66	31.06	5.94	37.00	188	25

Remarks:

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