

Attachment 1 : Summary of Test Results

The test results in the emission 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 are listed as the attached data.

All the tests were carried out with the EUT in normal operation, which was defined as:
Mode 1: 2065R

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 : September 15, 1999 EUT : Video Sender
 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
=====					
*0.466	0.06	0.10	37.41	37.57	48.00
0.489	0.06	0.10	35.12	35.28	48.00
0.544	0.07	0.10	30.81	30.98	48.00
0.677	0.08	0.10	31.16	31.34	48.00
0.731	0.08	0.10	31.08	31.26	48.00
21.505	0.36	0.48	18.73	19.57	48.00

Remarks :

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



CONDUCTED EMISSION DATA

Date of Test : September 15, 1999 EUT : Video Sender
 Test Mode : Mode 1 Detect Mode : Quasi-Peak & Average

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
MHz	Loss	Factor	Line2	Line2	
	dB	dB	dBuV	dBuV	dBuV
=====					
*0.458	0.06	0.10	34.64	34.80	48.00
0.532	0.07	0.10	28.19	28.36	48.00
0.610	0.07	0.10	26.70	26.87	48.00
0.680	0.08	0.10	28.30	28.48	48.00
0.759	0.09	0.10	28.95	29.14	48.00
0.911	0.10	0.10	25.46	25.66	48.00

Remarks :

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



RADIATED EMISSION DATA

Date of Test : September 15, 1999 EUT : Video Sender
 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
=====									
56.400	1.40	6.17	0.00	12.80	20.37	19.63	40.00	399	157
86.540	1.69	9.98	0.00	10.70	22.37	17.63	40.00	399	64
112.800	1.94	12.55	0.00	12.40	26.89	16.61	43.50	400	73
175.240	2.55	10.64	0.00	7.50	20.69	22.81	43.50	400	93
322.000	3.87	14.22	0.00	9.70	27.79	18.21	46.00	400	147
*445.000	4.51	16.93	0.00	9.20	30.64	15.36	46.00	258	45

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 : September 15, 1999 EUT : Video Sender
 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
=====									
57.140	1.41	7.54	0.00	14.30	23.25	16.75	40.00	100	127
*124.000	2.06	11.77	0.00	13.80	27.63	15.87	43.50	100	87
133.700	2.15	11.54	0.00	9.80	23.49	20.01	43.50	100	76
223.000	3.01	10.40	0.00	7.20	20.60	25.40	46.00	100	49
325.400	3.89	14.21	0.00	6.70	24.80	21.20	46.00	286	164
428.000	4.42	16.73	0.00	7.80	28.94	17.06	46.00	228	34

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	:	September 15, 1999	EUT	:	Video Sender
Test Mode	:	Mode 1	Test Site	:	No.1 Open Test Site

QP Detector

Fundamental Frequency

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
=====									
418.400	3.00	17.30	26.00	84.20	78.50	1.43	79.94	0	0

Spurious Frequency

836.000	5.15	20.54	26.00	51.40	51.10	10.90	62.00	0	0
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Average Detector

Spurious Frequency

1258.000	0.75	25.52	35.19	52.32	43.40	18.60	62.00	0	0
1676.000	1.00	27.05	34.69	54.85	48.21	13.79	62.00	0	0
2094.000	1.26	28.42	34.50	54.80	49.98	12.02	62.00	0	0

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Antenna Factor + Cable loss



Radiated Emission Data

Date of Test	: <u>September 15, 1999</u>	EUT	: <u>Video Sender</u>
Test Mode	: <u>Mode 1</u>	Test Site	: <u>No.1 Open Test Site</u>

QP Detector

Fundamental Frequency

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
=====									
418.400	3.00	17.17	26.00	83.00	77.17	2.77	79.94	0	0

Spurious Frequency

836.800	5.16	20.67	26.00	46.00	45.83	16.17	62.00	0	0
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Average Detector

Spurious Frequency

1258.000	0.75	25.52	35.19	49.55	40.63	21.37	62.00	0	0
1676.000	1.00	27.05	34.69	52.45	45.81	16.19	62.00	0	0
2096.000	1.26	28.42	34.50	49.18	44.36	17.64	62.00	0	0

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Antenna Factor + Cable loss



Occupied Bandwidth of Radiated Emission Data

Date of Test : September 15, 1999 EUT : Video Sender
Test Mode : Mode 1 Test Site : No.1 Open Test Site

Center Frequency	418.05	MHz
Allowable Bandwidth (70-900 MHz:0.25%, Above 900MHz: 0.5%)	1045.125	kHz
Bandwidth at 20dB down (Max)	530	kHz
Result	Complied with regulation	
Reference Graphics	Fig.1 and Fig.2	

