

EMC TEST REPORT For

Alitronika DVS B.V.

AT2780

Model No.: AT2780PCI

FCC ID: ZA6AT2780PCI

Prepared for : Alitronika DVS B.V.

Address : Kalmarweg 16/3, 9723 JG Groningen, The Netherlands

Prepared by : SHENZHEN EMTEK CO., LTD. Address : Bldg 69, Majialong Industry Zone,

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Report Number : ES110127173F

Date of Test : January 28, 2011 to February 20, 2011

Date of Report : February 21, 2011

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APPENDIX I (Photos of EUT) (1 Page)

TEST REPORT DESCRIPTION

Applicant Alitronika DVS B.V. Manufacturer **MECALEC SMD**

Trade Mark Alitronika **EUT** AT2780

Model No. AT2780PCI

ZA6AT2780PCI FCC ID

DC 5V & DC 3.3V from the PCI bus Power Supply

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B October 2009 & FCC / ANSI C63.4-2009

The device described above is tested by SHENZHEN EMTEK CO., LTD, to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and SHENZHEN EMTEK CO., LTD. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of SHENZHEN EMTEK CO., LTD.

Date of Test January 28, 2011 to February 20, 2011

Prepared by

(Engineer)

Reviewer

(Quality Manager)

Approved & Authorized Signer:

(Manager)

1. SUMMARY OF TEST RESULT

EMISSION							
Standard & Limits	Results						
FCC Part 15, Subpart B, Class B ANSI C63.4: 2009	Pass						
FCC Part 15, Subpart B, Class B ANSI C63.4: 2009	Pass						
	Standard & Limits FCC Part 15, Subpart B, Class B ANSI C63.4: 2009 FCC Part 15, Subpart B, Class B						

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT AT2780

Model Number AT2780PCI

FCC ID ZA6AT2780PCI

Test Voltage DC 5V & DC 3.3V from the PCI bus

Alitronika DVS B.V. **Applicant**

Address Kalmarweg 16/3, 9723 JG Groningen, The Netherlands

Manufacturer **MECALEC SMD**

Rue Nicolas Fossoul 54, B4100 Boncelles, Belgium Address

Date of Received: January 27, 2011

Date of Test January 28, 2011 to February 20, 2011

2.2. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2010.10.29

The certificate is valid until 2013.10.28

The Laboratory has been assessed and proved to be in compliance

with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2010.5.25

The Laboratory has been assessed according to the requirements

ISO/IEC 17025.

Accredited by FCC, October 28, 2010

The Certificate Registration Number is 406365.

Accredited by Industry Canada, March 5, 2010 The Certificate Registration Number is 46405-4480.

Name of Firm : SHENZHEN EMTEK CO., LTD. Site Location : Bldg 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China

2.3. Description of Support Device

PC : Manufacturer: LENOVO

M/N: 9702 S/N: L3C4410 CE, FCC: DOC

LCD Monitor : Manufacturer: LENOVO

M/N: 9227-AE6

S/N:4M0293084302824

CE, FCC: DOC

Keyboard : Manufacturer: LENOVO

M/N: KU-0225 S/N:0585494 CE, FCC: DOC

Mouse : Manufacturer: LENOVO

M/N: MO28UOL S/N:44G7862 068 CE, FCC: DOC

TV : Manufacturer: THTF

M/N: LCD22(DVB-T)

S/N: N/A

CE, FCC: DOC

(Note: Support device LCD TV with DVB-T function

2.4. Measurement Uncertainty

Conducted Emission Uncertainty: 2.8dB

Radiated Emission Uncertainty : 3.3dB (3m Chamber)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 29, 2010	1 Year
2.	L.I.S.N.	Schwarzbeck	NNLK8129	8129203	May 29, 2010	1 Year
3.	50Ω Coaxial	Anritsu	MP59B	M20531	N/A	N/A
	Switch					
4.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 29, 2010	1 Year
5.	Voltage Probe	Rohde & Schwarz	TK9416	N/A	May 29, 2010	1 Year
6.	I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	May 29, 2010	1 Year

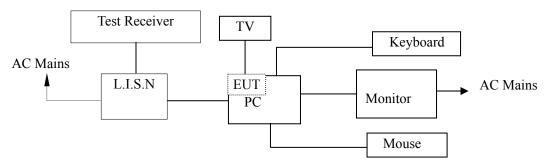
3.2.For Radiated Emission Measurement (3m)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test	Rohde &	ESU	1302.6005.26	May 29, 2010	1 Year
	Receiver	Schwarz			-	
2.	Pre-Amplifier	HP	8447D	2944A07999	May 29, 2010	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	May 29, 2010	1 Year
4.	Loop Antenna	ARA	PLA-1030/B	1029	May 29, 2010	1 Year
5.	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703	May 29, 2010	1 Year
	Hom Antenna			99	-	
6.	Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 29, 2010	1 Year
7.	Cable	Schwarzbeck	AK9513	ACRX1	May 29, 2010	1 Year
8.	Cable	Rosenberger	N/A	FP2RX2	May 29, 2010	1 Year
9.	Cable	Schwarzbeck	AK9513	CRPX1	May 29, 2010	1 Year
10.	Cable	Schwarzbeck	AK9513	CRRX2	May 29, 2010	1 Year

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1.Block Diagram of Test Setup

4.1.1. For AC Mains Test



(Note: Support device LCD TV with DVB-T and ATSC function)

(EUT: AT2780)

4.2. Measuring Standard

FCC Part 15, Subpart B, Class B ANSI C63.4: 2009

Power Line Conducted Emission Limits (Class B)

Frequency	Limit (dBμV)			
(MHz)	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.3.EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet FCC requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : AT2780 Model Number : AT2780PCI

Serial Number · N/A

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.1.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3.Let the EUT work in measuring mode (DVB-T) and measure it.

4.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the FCC regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9kHz in 150kHz~30MHz and 200Hz in 9kHz~150kHz.

The frequency range from 150kHz to 30MHz is investigated.

4.6. Measuring Results

PASS.

Please refer to the following pages.

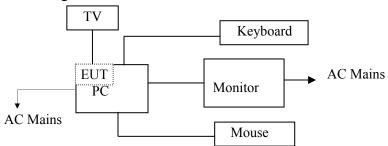
Date of Test:February 14, 2011Temperature:22Test By:WOLFHumidity:50%Power:AC 120V, 60Hz (PC)Test Mode:DVB-T

T. (1)	Frequency	Emission Level	Emission Level	Limits	Limits	Over	Over
Test Line	MHz	QP	AV	QP	AV	QP	AV
		dB(mV)	dB(mV)	dB(mV)	dB(mV)	dB(mV)	dB(mV)
	0.2100	39.61	31.97	63.21	53.21	-23.60	-21.24
	0.3450	31.35	21.46	59.08	48.96	-27.73	-27.50
Line	0.8250	32.38	30.19	56.00	46.00	-23.62	-15.81
Line	1.6500	30.31	27.64	56.00	46.00	-25.69	-18.36
	2.0200	33.14	25.23	56.00	46.00	-22.86	-20.77
	2.4700	26.97	20.44	56.00	46.00	-29.03	-25.56
	0.2094	40.96	32.89	63.23	53.23	-22.27	-20.34
	0.3446	30.12	21.52	59.09	49.09	-28.97	-27.57
Neutral	0.8217	31.98	30.01	56.00	46.00	-24.02	-15.99
Neutrai	1.6450	30.39	27.76	56.00	46.00	-25.61	-18.24
	1.9386	32.13	21.89	56.00	46.00	-23.87	-24.11
	2.4606	27.67	23.49	56.00	46.00	-28.33	-22.51

5. RADIATED EMISSION MEASUREMENT

5.1.Block Diagram of Test Setup

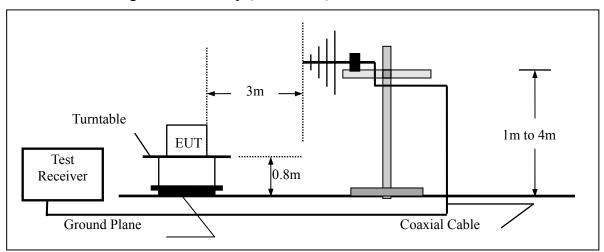
5.1.1. Block diagram of connection between the EUT and simulators



(Note: Support device LCD TV with DVB-T and ATSC function were placed 3m chamber outside.)

(EUT: AT2780)

5.1.2.Block diagram of test setup (In chamber)



(EUT: AT2780)

5.2. Measuring Standard

FCC Part 15, Subpart B, Class B ANSI C63.4: 2009

5.3. Radiated Emission Limits (Class B)

5.3.1.Limit bellow 1GHz:

Frequency	Distance	Field Strer	ngths Limit
MHz	Meters	μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note:

- (1) Emission level (dB) μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

5.3.2.Limit above 1GHz:

Frequency	Distance	Field Stro	engths Limit	
(GHz)	(Meters)	Average (dBµV/m)	Peak (dBµV/m)	
Above 1GHz	3	54	74	

Note: (1) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

5.4.EUT Configuration on Test

The FCC Class B regulations test method must be used to find the maximum emission during radiated emission measurement.

5.5. Operating Condition of EUT

- 5.5.1. Turn on the power.
- 5.5.2. After that, let the EUT work in test mode (DVB-T) and measure it.

5.6.Test Procedure

The EUT is placed on a turntable which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver (ESU26) is set at 120kHz.

5.7. Measuring Results

PASS.

Please refer to the following pages.

Date of Test: February 14, 2011 Temperature: 22

Power: DC 5V & DC 3.3V Humidity: 50%

Test By: WOLF Test Mode: DVB-T (205.5 MHz)

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV)	(dBuV/m)	(dB)	
52.31	V	32.01	40	-7.99	QP
88.2	V	35.3	43.5	-8.2	QP
126.03	V	34.1	43.5	-9.4	QP
228.85	V	35.6	46	-10.4	QP
289.96	V	39.14	46	-6.86	QP
806	V	38.1	46	-7.9	QP
62.01	Н	28.19	40	-11.81	QP
95.96	Н	26.26	43.5	-17.24	QP
135.73	Н	33.3	43.5	-10.2	QP
207.51	Н	33.7	43.5	-9.8	QP
227.88	Н	34.1	46	-11.9	QP
802.12	Н	40.67	46	-5.33	OP

Operation Mode: DTV (205.5MHz) Test Date: February 14, 2011

Frequency Range: Above 1GHz Temperature: 28
Test Result: PASS Humidity: 65 %
Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission		Limit		Over(dB)		Note
(MHz)		Level	(dBuV)	3m(dBuV/m)				
	H/V	PK	AV	PK	AV	PK	AV	
1345.23	V	38.66	32.30	74.00	54.00	-35.34	-21.70	others
1953.37	V	39.02	33.03	74.00	54.00	-34.98	-20.97	others
2856.55	V	39.50	33.38	74.00	54.00	-34.50	-20.62	others
1356.46	Н	41.55	33.73	74.00	54.00	-32.45	-20.27	others
1785.44	Н	41.20	34.54	74.00	54.00	-32.80	-19.46	others
2315.90	Н	38.87	33.36	74.00	54.00	-35.13	-20.64	others
2524.43	Н	41.02	34.82	74.00	54.00	-32.98	-19.18	others

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Date of Test: February 14, 2011 Temperature: 22

Power: DC 5V & DC 3.3V Humidity: 50%

Test By: WOLF Test Mode: DVB-T (506 MHz)

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV)	(dBuV/m)	(dB)	
60.07	V	35.6	40	-4.4	QP
95.96	V	35	43.5	-8.5	QP
126.03	V	29.2	43.5	-14.3	QP
209.45	V	30.5	43.5	-13	QP
227.88	V	36.1	46	-9.9	QP
802.12	V	32.3	46	-13.7	QP
135.73	Н	33.6	43.5	-9.9	QP
195.87	Н	30.8	43.5	-12.7	QP
208.48	Н	32.9	43.5	-10.6	QP
221.09	Н	34	46	-12	QP
348.16	Н	36.35	46	-9.65	QP
416.06	Н	37.47	46	-8.53	QP

Operation Mode: DVB-T (506MHz) Test Date: February 14, 2011

Frequency Range: Above 1GHz Temperature: 28
Test Result: PASS Humidity: 65 %
Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission		Limit		Over(dB)		Note
(MHz)		Level	(dBuV)	3m(dBuV/m)				
	H/V	PK	AV	PK	AV	PK	AV	
1089.22	V	38.25	28.22	74.00	54.00	-35.75	-25.78	others
1967.44	V	40.25	34.26	74.00	54.00	-33.75	-19.74	others
2142.45	V	40.61	34.49	74.00	54.00	-33.39	-19.51	others
3425,22	V	42.30	35.64	74.00	54.00	-31.70	-18.36	others
1134.87	Н	41.40	33.58	74.00	54.00	-32.60	-20.42	others
1678.33	Н	39.98	34.47	74.00	54.00	-34.02	-19.53	others
2064.22	Н	40.53	33.33	74.00	54.00	-33.47	-20.67	others
3156.60	Н	42.25	36.05	74.00	54.00	-31.75	-17.95	others

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Date of Test: February 14, 2011 Temperature: 22

Power: DC 5V & DC 3.3V Humidity: 50%

Test By: WOLF Test Mode: DVB-T (746 MHz)

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV)	(dBuV/m)	(dB)	
60.61	V	36.83	40.00	-3.17	QP
96.08	V	37.11	43.50	-6.39	QP
126.34	V	31.65	43.50	-11.85	QP
210.28	V	32.82	43.50	-10.68	QP
228.07	V	37.64	46.00	-8.36	QP
803.24	V	35.41	46.00	-10.59	QP
136.27	Н	34.83	43.50	-8.67	QP
195.99	Н	32.91	43.50	-10.59	QP
208.79	Н	35.35	43.50	-8.15	QP
221.92	Н	36.32	46.00	-9.68	QP
348.35	Н	37.89	46.00	-8.11	QP
417.18	Н	40.58	46.00	-5.42	QP

Operation Mode: DVB-T (746MHz) Test Date: February 14, 2011

Frequency Range: Above 1GHz Temperature: 28
Test Result: PASS Humidity: 65 %
Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission		Limit		Over(dB)		Note
(MHz)		Level(dBuV)		3m(dBuV/m)				
	H/V	PK	AV	PK	AV	PK	AV	
1054.22	V	39.48	29.45	74.00	54.00	-34.52	-24.55	others
1855.74	V	42.36	36.37	74.00	54.00	-31.64	-17.63	others
2190.33	V	43.06	36.94	74.00	54.00	-30.94	-17.06	others
3216.33	V	43.84	37.18	74.00	54.00	-30.16	-16.82	others
1243.56	Н	43.72	35.90	74.00	54.00	-30.28	-18.10	others
1643.90	Н	41.21	35.70	74.00	54.00	-32.79	-18.30	others
2156.32	Н	42.64	35.44	74.00	54.00	-31.36	-18.56	others
3145.23	Н	45.36	39.16	74.00	54.00	-28.64	-14.84	others

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown "-- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Date of Test: February 14, 2011 Temperature: 22

Power: DC 5V & DC 3.3V Humidity: 50%

Test By: WOLF Test Mode: ATSC (57 MHz)

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV)	(dBuV/m)	(dB)	
62.01	V	34.7	40	-5.3	QP
86.26	V	33.7	40	-6.3	QP
132.82	V	34.8	43.5	-8.7	QP
235.64	V	37.1	46	-8.9	QP
295.78	V	34.9	46	-11.1	QP
806	V	38	46	-8	QP
61.04	Н	27.56	40	-12.44	QP
95.96	Н	26.45	43.5	-17.05	QP
135.73	Н	31.8	43.5	-11.7	QP
226.91	Н	32.6	46	-13.4	QP
533.43	Н	32.28	46	-13.72	QP
804.06	Н	39.77	46	-6.23	OP

Operation Mode: ATSC (57 MHz) Test Date: February 14, 2011

Frequency Range: Above 1GHz Temperature: 28
Test Result: PASS Humidity: 65 %
Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission		Limit		Over(dB)		Note
(MHz)		Level(dBuV)		3m(dBuV/m)				
	H/V	PK	AV	PK	AV	PK	AV	
1098.33	V	39.89	33.53	74.00	54.00	-34.11	-20.47	others
1789.12	V	41.47	35.48	74.00	54.00	-32.53	-18.52	others
2176.55	V	41.82	35.70	74.00	54.00	-32.18	-18.30	others
2646.33	V	42.23	32.25	74.00	54.00	-31.77	-21.75	others
1235.22	Н	42.78	34.96	74.00	54.00	-31.22	-19.04	others
1633.23	Н	41.19	35.68	74.00	54.00	-32.81	-18.32	others
2132.78	Н	41.20	32.00	74.00	54.00	-32.80	-22.00	others
2562.22	Н	41.53	34.33	74.00	54.00	-32.47	-19.67	others

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Date of Test: February 14, 2011 Temperature: 22

Power: DC 5V & DC 3.3V Humidity: 50%

Test By: WOLF Test Mode: ATSC (599 MHz)

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV)	(dBuV/m)	(dB)	
62.55	V	35.93	40.00	-4.07	QP
86.38	V	35.81	40.00	-4.19	QP
133.13	V	37.25	43.50	-6.25	QP
236.47	V	39.42	46.00	-6.58	QP
295.97	V	36.44	46.00	-9.56	QP
807.12	V	41.11	46.00	-4.89	QP
61.58	Н	28.79	40.00	-11.21	QP
96.08	Н	28.56	43.50	-14.94	QP
136.04	Н	34.25	43.50	-9.25	QP
227.74	Н	34.92	46.00	-11.08	QP
533.62	Н	33.82	46.00	-12.18	QP
805.18	Н	42.88	46.00	-3.12	QP

Operation Mode: ATSC (57 MHz) Test Date: February 14, 2011

Frequency Range: Above 1GHz Temperature: 28
Test Result: PASS Humidity: 65 %
Measured Distance: 3m Test By: WOLF

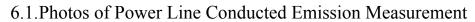
Freq.	Ant.Pol.	Emission		Limit		Over(dB)		Note
(MHz)		Level(dBuV)		3m(dBuV/m)				
	H/V	PK	AV	PK	AV	PK	AV	
1043.22	V	42.01	35.65	74.00	54.00	-31.99	-18.35	others
1525.34	V	42.49	36.50	74.00	54.00	-31.51	-17.50	others
2189.86	V	43.45	33.47	74.00	54.00	-30.55	-20.53	others
2534.67	V	43.13	37.01	74.00	54.00	-30.87	-16.99	Fundamental
1097.97	Н	44.90	37.08	74.00	54.00	-29.10	-16.92	others
1673.33	Н	44.33	37.67	74.00	54.00	-29.67	-16.33	others
2131.22	Н	42.41	36.90	74.00	54.00	-31.59	-17.10	others
2522.55	Н	41.22	32.02	74.00	54.00	-32.78	-21.98	others
	Н	44.78	38.58	74.00	54.00	-29.22	-15.42	Fundamental

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

6. PHOTOGRAPHS





6.2. Photos of Radiation Emission Measurement





APPENDIX I (Photos of EUT)



