







#### ISO/IEC17025 Accredited Lab.

Report No: FCC 1006356 File reference No: 2010-07-07

Applicant: PDi Communication Systems. Inc

Product: Hospital Grade LCD TV Receiver

Brand Name: PDI

Model No: CV32

Test Standards: FCC Part 15 Subpart B: 2008

Test result: It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Peng Tong

Terry Tong

Manager

Dated: July 07, 2010

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

#### SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Date: 2010-07-07



#### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

### **IC-Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

#### VCCI- Registration No.: R-3015 and C-3332

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

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Date: 2010-07-07



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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

#### 1.2 Applicant Details

Applicant: PDi Communication Systems. Inc

Address: 40 Greenwood Lane, Springboro, OH 45066

Telephone: 937-743-6010 Fax: 937-743-5664

#### 1.3 Description of EUT

Product: Hospital Grade LCD TV Receiver Manufacturer: WANLIDA GROUP CO., LTD.

Address: WANLIDA INDUSTRY ZONE, NANJING ,FUJIAN,CHINA.363601

Brand Name: PDI Model Number: CV32

Additional Model Number: N/A

Rating: Input: 100-240V, 50/60HZ, 115W

Remark: --

#### 1.4 Submitted Sample: 1 Sample

#### 1.5 Test Duration

2010-06-24 to 2010-07-07

#### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Brown Lu

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#### **List of Measurement Equipment**

#### **Conducted Emission Test**

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2010.4.26	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2010.4.26	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2010.4.26	1Year
LISN	ESH3-Z5	100294	RS	2010.4.26	1Year
LISN	ESH3-Z5	100253	RS	2010.4.26	1Year
LISN	LS16C	10010947251	AFJ	2010-5-14	1Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2010-5-14	1Year

#### 2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2010.4.26	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	НР	2010.4.26	1Year
Amplifier	8447D	2727A05017	HP	2010.4.26	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2010.4.26	1Year
Horn Antenna	BBHA9120D	1201	Schwarebeck	2010-5-14	1Year

#### 2.3 **Auxiliary Equipment**

Name	Model No.	Serial No.	Manufacturer	Calibration	Calibration	FCCID/
				Date	Cycle	DOC
PC	R400		IBM			FCC ID
Keyboard	KB-0225		IBM			DOC
Mouse	M-F105		L.SEletron			DOC

#### 2.4 I/O Cable

Cable No.	Port	Connector Type	Cable Type	Cable Length
1	VGA	VGA	Unshielded	1.5
2	AC	IEC	Unshielded	1.5
3	AC	IEC	Unshielded	2.0

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#### 3.0 **Technical Details**

3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

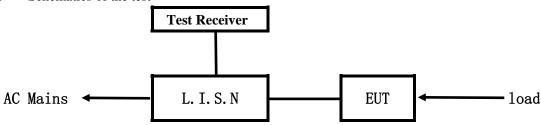
3.2 Test Standards

FCC Part 15 Subpart B: 2008



#### 4.0 Conducted Power line Test

#### 4.1 Schematics of the test

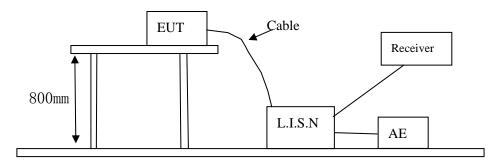


**EUT: Equipment Under Test** 

#### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 4.3 Power line conducted Emission Limit

Engavon av (MHz)	Class A Li	mits dB(μV)	Class B Limits $dB(\mu V)$		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00	
5.00 ~ 30.00	73.00	60.00	60.00	50.00	

Notes:

- 1. \*decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

#### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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## A: Conducted Emission on Live Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

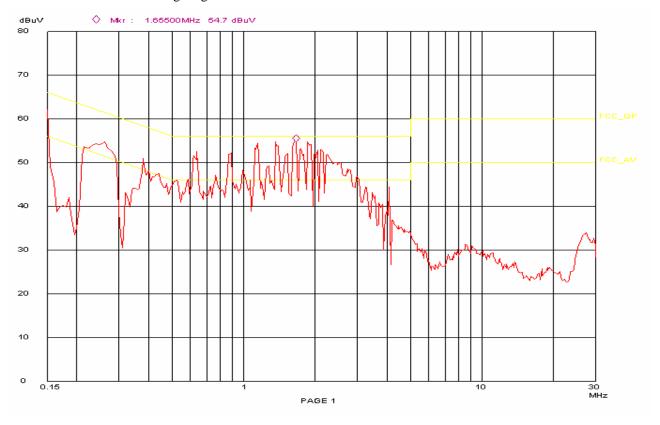
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV54.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	57.9	45.9	66.0	56.0
0.260	Live	51.9	39.4	61.4	51.4
0.540	Live	48.4	38.8	56.0	46.0
0895	Live	50.5	38.0	56.0	46.0
1.360	Live	52.1	40.7	56.0	46.0
1.860	Live	52.2	41.2	56.0	46.0

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# B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

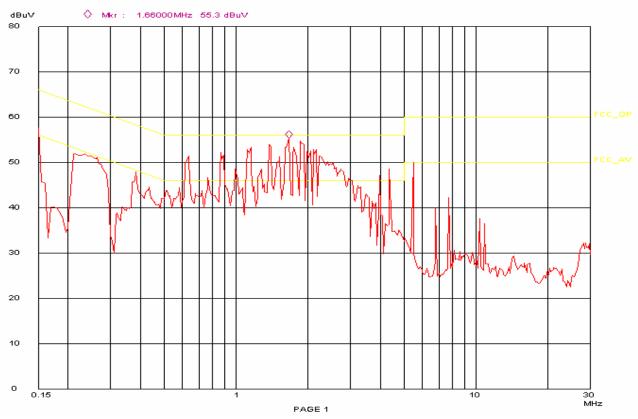
**EUT Operating Environment** 

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV54.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	54.6	44.8	66.0	56.0
0.635	Neutral	48.3	41.0	56.0	46.0
0.870	Neutral	49.8	40.2	56.0	46.0
1.150	Neutral	51.4	40.5	56.0	46.0
1.660	Neutral	53.3	39.9	56.0	46.0
1.860	Neutral	51.7	39.2	56.0	46.0

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### C: Conducted Emission on Live Terminal (150kHz to 30MHz)

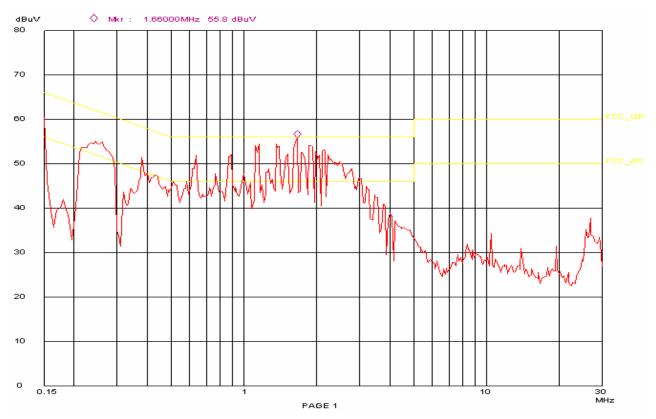
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV198.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	57.2	45.1	66.0	56.0
0.245	Live	51.8	36.8	62.1	52.1
0.640	Live	48.5	38.9	56.0	46.0
0.895	Live	50.2	39.1	56.0	46.0
1.150	Live	51.7	40.3	56.0	46.0
1.660	Live	53.2	41.4	56.0	46.0

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#### D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

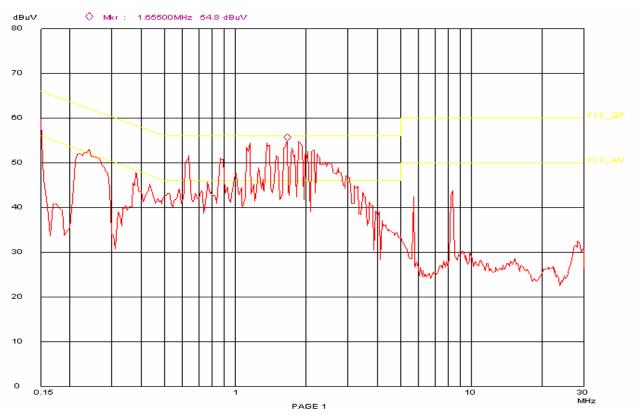
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input DTV198.31MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	54.8	44.9	66.0	56.0
0.230	Neutral	49.6	36.5	62.4	52.4
0.640	Neutral	47.8	38.5	56.0	46.0
1.150	Neutral	51.4	40.8	56.0	46.0
1.360	Neutral	52.1	41.3	56.0	46.0
1.655	Neutral	52.7	41.6	56.0	46.0

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### E: Conducted Emission on Live Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

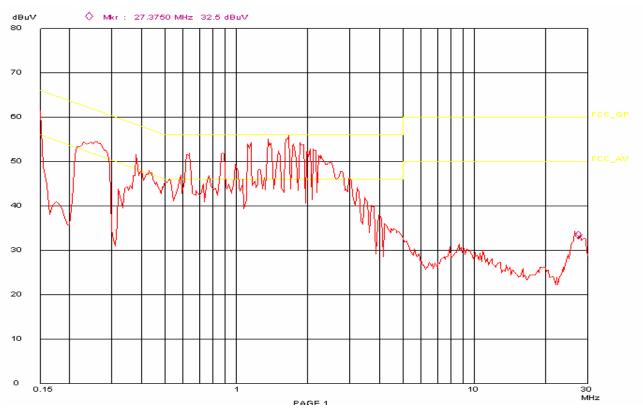
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV 554.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	58.2	46.2	66.0	56.0
0.230	Live	51.6	38.6	62.4	52.4
0.875	Live	50.2	39.8	56.0	46.0
1.150	Live	52.1	40.7	56.0	46.0
1.360	Live	52.4	42.3	56.0	46.0
1.660	Live	53.6	41.7	56.0	46.0

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#### F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

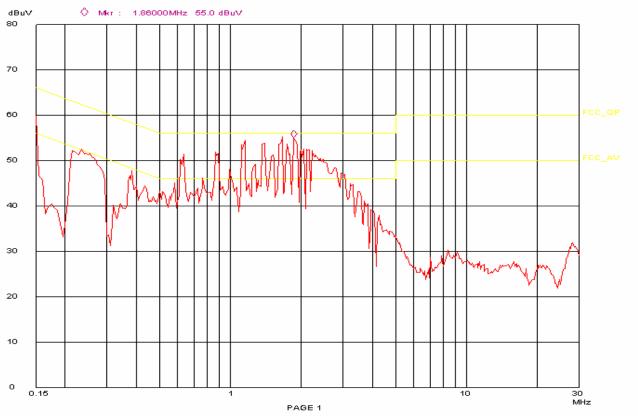
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV 554.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	55.2	45.0	66.0	56.0
0.235	Neutral	49.5	37.0	62.3	52.3
0.865	Neutral	49.7	39.4	56.0	46.0
1.150	Neutral	51.5	40.1	56.0	46.0
1.400	Neutral	52.2	41.8	56.0	46.0
1.660	Neutral	53.2	40.2	56.0	46.0

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#### G: Conducted Emission on Live Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

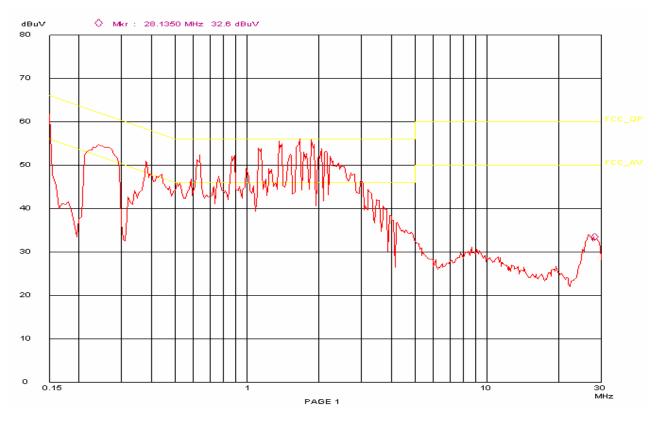
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV61.25 TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Frequency Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	58.1	46.5	66.0	56.0
0.240	Live	51.8	37.8	62.1	52.1
0.635	Live	49.2	41.5	56.0	46.0
1.150	Live	51.4	41.8	56.0	46.0
1.660	Live	53.5	40.2	56.0	46.0

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#### H: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

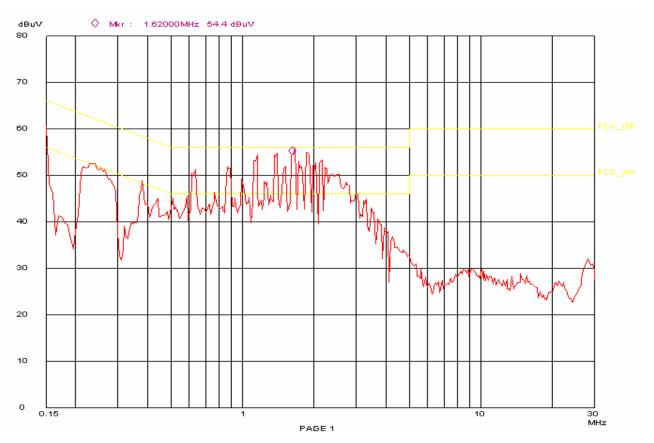
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV61.25 TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	ency Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	55.7	45.3	66.0	56.0
0.240	Neutral	49.2	35.6	62.1	52.1
0.635	Neutral	49.3	38.9	56.0	46.0
1.150	Neutral	51.8	40.2	56.0	46.0
1.660	Neutral	53.6	40.5	56.0	46.0

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#### I: Conducted Emission on Live Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

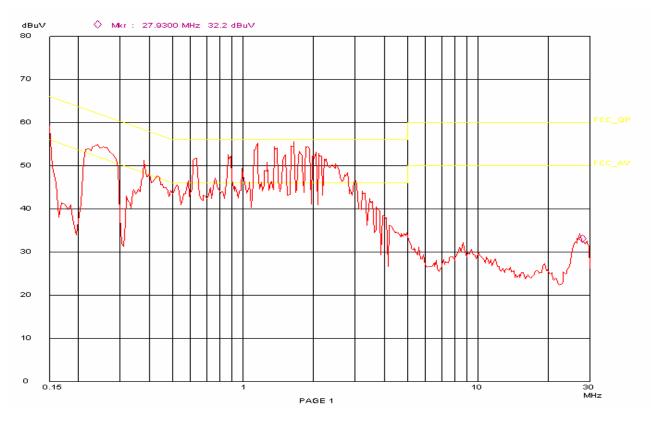
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV633.25 TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	ency	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	87.9	45.9	66.0	56.0
0.240	Live	51.8	37.5	62.1	52.1
0.635	Live	49.0	41.1	56.0	46.0
1.150	Live	51.8	39.7	56.0	46.0
1.650	Live	53.0	40.2	56.0	46.0

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#### J: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

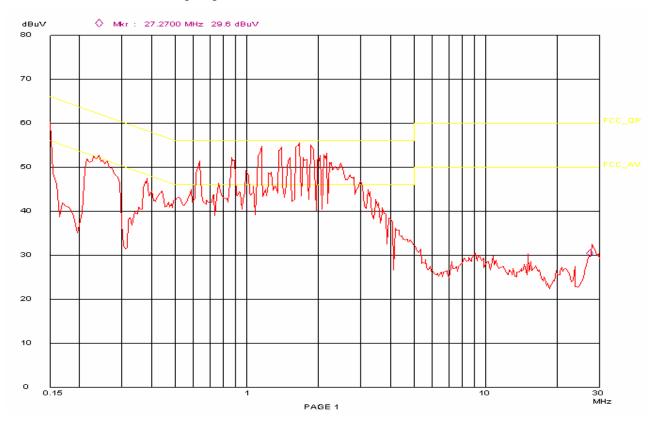
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV633.25 TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	55.6	45.1	66.0	56.0
0.240	Neutral	49.2	35.6	62.1	52.1
0.635	Neutral	48.5	40.9	56.0	46.0
1.150	Neutral	52.3	40.6	56.0	46.0
1.650	Neutral	53.3	41.6	56.0	46.0

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## K: Conducted Emission on Live Terminal (150kHz to 30MHz)

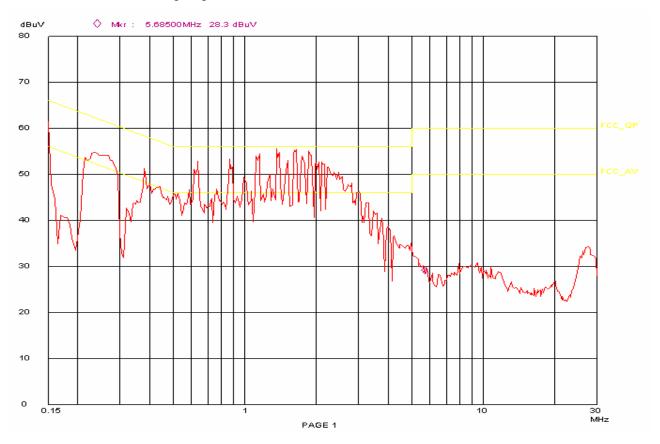
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV795.25 TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency Line	Reading(dBµV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	58.0	46.0	66.0	56.0
0.240	Live	51.8	37.8	62.1	52.1
0.640	Live	48.7	39.2	56.0	46.0
1.150	Live	52.0	402	56.0	46.0
1.650	Live	52.9	41.2	56.0	46.0

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#### L: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

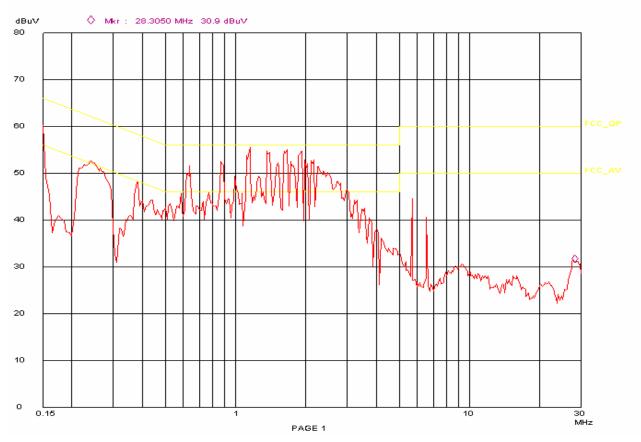
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV795.25 TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	55.9	45.1	66.0	56.0
0.240	Neutral	49.1	36.8	62.1	52.1
0.640	Neutral	48.3	38.5	56.0	46.0
1.150	Neutral	52.0	40.3	56.0	46.0
1.655	Neutral	53.2	42.2	56.0	46.0

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#### M: Conducted Emission on Live Terminal (150kHz to 30MHz)

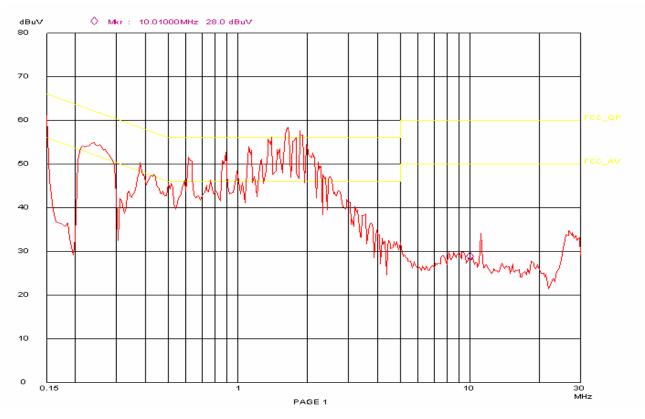
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: AV-IN Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency Line	Reading(dBµV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	59.0	49.8	66.0	56.0
0.890	Live	44.3	37.8	56.0	46.0
1.366	Live	44.6	38.9	56.0	46.0
1.620	Live	54.8	43.6	56.0	46.0
1.912	Live	53.2	42.3	56.0	46.0

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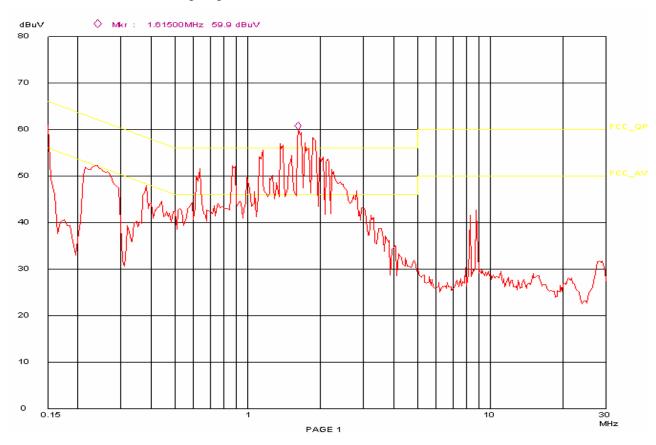
#### N: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: AV-IN Equipment Level: Class B** 

**Results: Pass** 



Frequency	Frequency Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	59.9	50.3	66.0	56.0
1.150	Neutral	51.2	41.3	56.0	46.0
1.486	Neutral	53.3	42.5	56.0	46.0
1.615	Neutral	54.8	44.1	56.0	46.0
1.912	Neutral	53.7	43.5	56.0	46.0

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#### O: Conducted Emission on Live Terminal (150kHz to 30MHz)

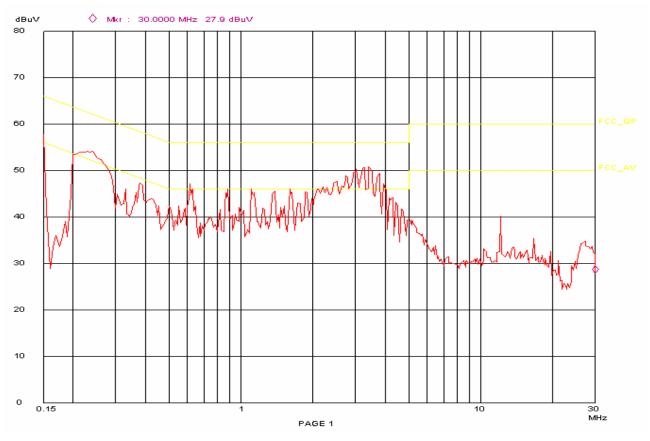
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 1 Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Frequency Line Reading(dBµV)		dBμV)	Limit(	dBμV)
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	57.1	39.6	66.0	56.0
0.240	Live	51.2	34.5	62.1	52.1
1.385	Live	42.9	33.1	56.0	46.0
3.275	Live	47.2	35.1	56.0	46.0

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#### P: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

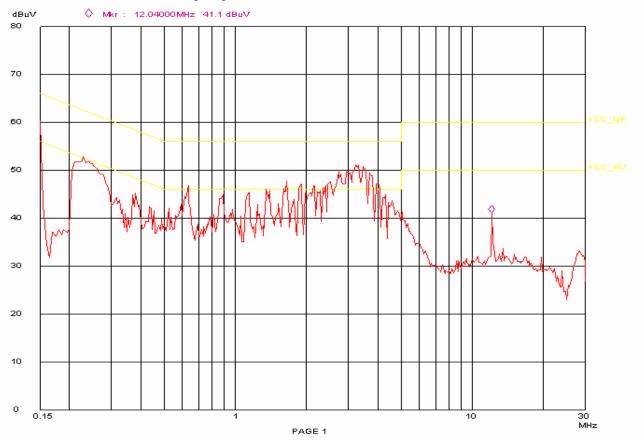
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 1 Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	57.1	40.2	66.0	56.0
0.230	Neutral	49.3	34.6	62.4	52.4
1.650	Neutral	43.8	33.1	56.0	46.0
3.230	Neutral	47.7	35.4	56.0	46.0

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#### Q: Conducted Emission on Live Terminal (150kHz to 30MHz)

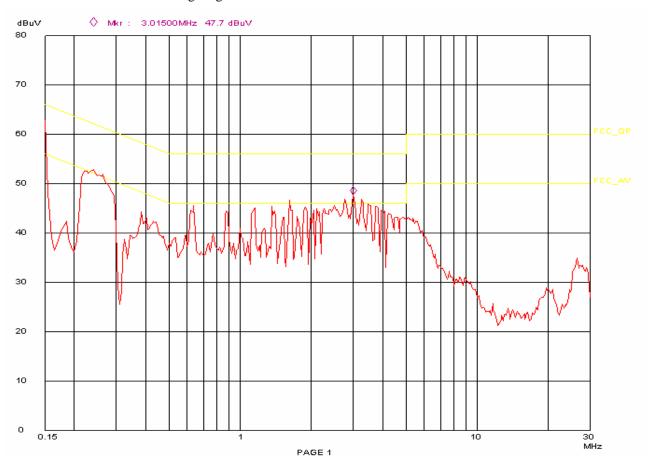
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input FM107.9MHz Radio Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	60.0	47.8	66.0	56.0
0.240	Live	49.7	36.8	62.1	52.1
1.620	Live	44.2	32.1	56.0	46.0
3.015	Live	45.6	33.4	56.0	46.0

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#### R: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

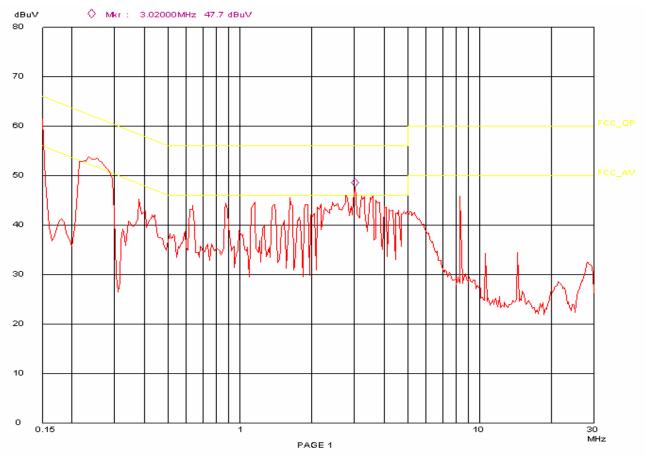
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input FM107.9MHz Radio Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	58.4	46.4	66.0	56.0
0.235	Neutral	51.0	38.5	62.3	52.3
1.620	Neutral	42.3	33.2	56.0	46.0
3.020	Neutral	42.8	35.4	56.0	46.0

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### S: Conducted Emission on Live Terminal (150kHz to 30MHz)

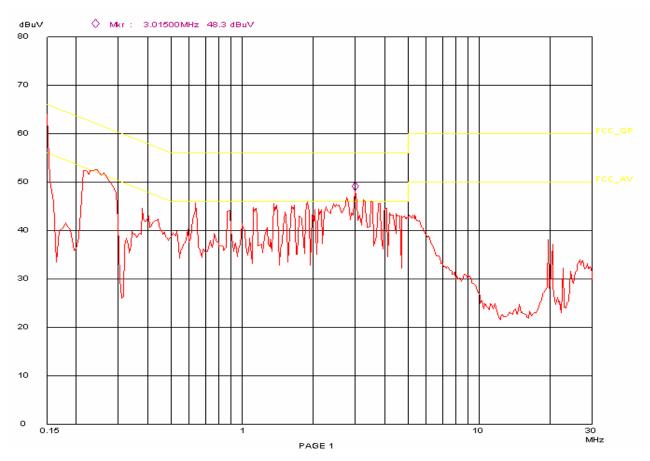
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM98.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	requency Line Reading(dBµV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	59.9	47.1	66.0	56.0
0.245	Live	49.6	34.3	61.9	51.9
0.640	Live	41.4	31.7	56.0	46.0
3.015	Live	43.5	36.1	56.0	46.0

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#### T: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

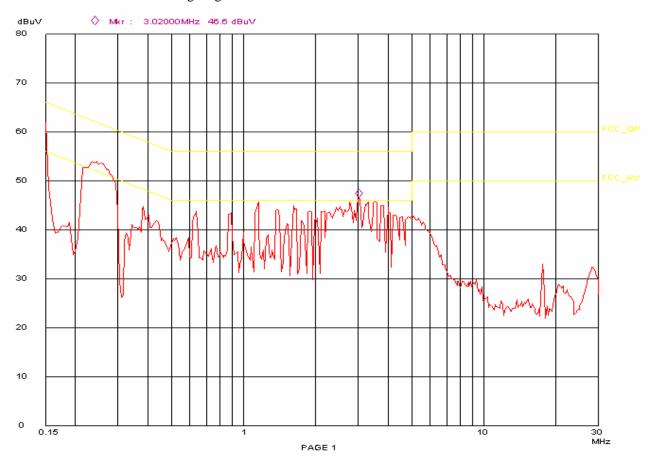
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM98.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	58.2	46.3	66.0	56.0
0.245	Neutral	50.9	35.4	61.9	51.9
1.150	Neutral	42.7	32.8	56.0	46.0
3.020	Neutral	43.5	36.4	56.0	46.0

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## U: Conducted Emission on Live Terminal (150kHz to 30MHz)

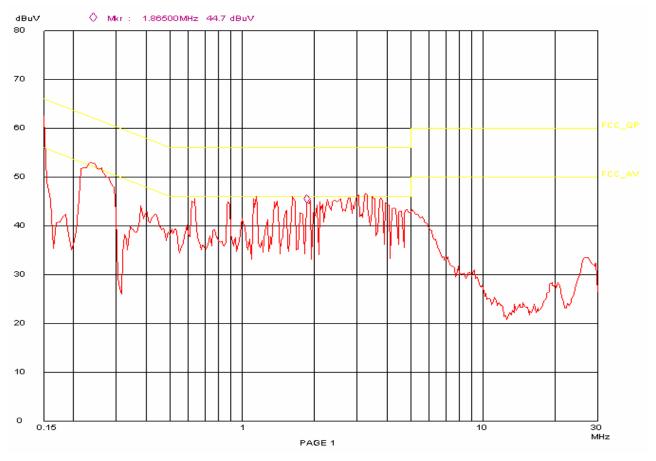
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM88.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	requency Line Reading(dBµV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	60.0	47.1	66.0	56.0
0.235	Live	49.9	37.8	62.3	52.3
1.145	Live	42.8	33.5	56.0	46.0
3.480	Live	43.5	34.5	56.0	46.0

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## V: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

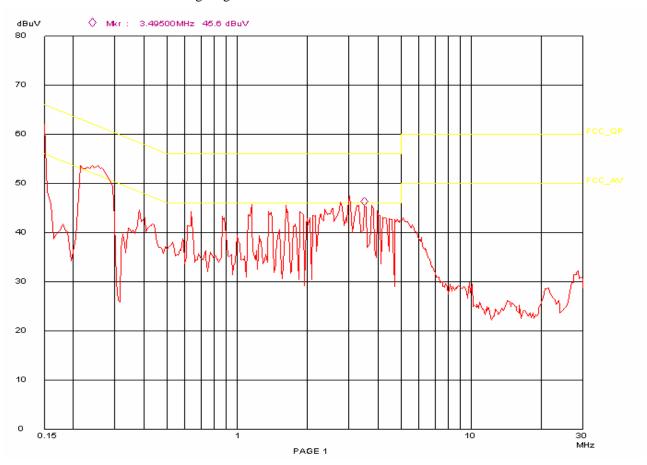
#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM88.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency	equency Line Reading(dBμV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	58.1	46.7	66.0	56.0
0.240	Neutral	51.0	36.9	62.3	52.3
1.150	Neutral	42.8	28.6	56.0	46.0
3.020	Neutral	43.6	35.2	56.0	46.0

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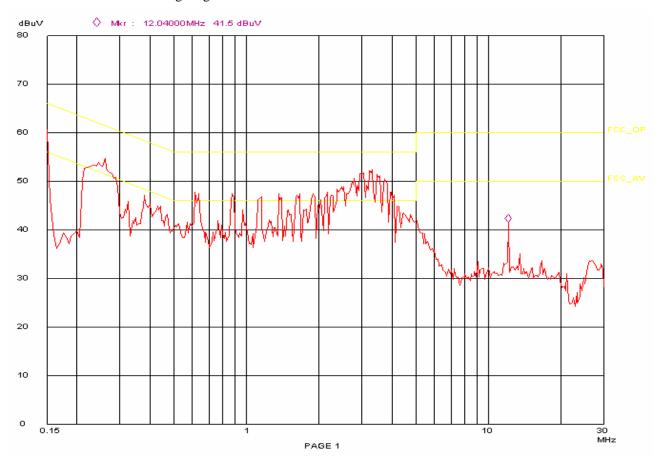
# W: Conducted Emission on Live Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 2 Equipment Level: Class B** 

**Results: Pass** 



Frequency	equency Reading(dBµV)		Limit(dBµV)		
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	57.6	41.6	66.0	56.0
0.260	Live	50.8	35.8	61.4	51.4
1.150	Live	44.6	32.9	56.0	46.0
3.315	Live	50.2	38.9	56.0	46.0

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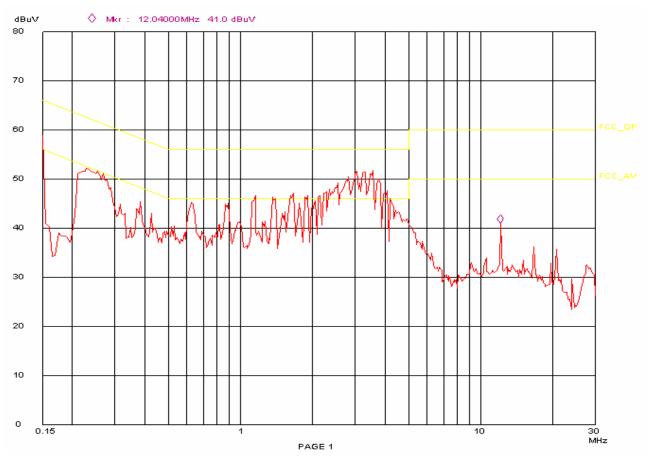
#### X: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 2 Equipment Level: Class B** 

**Results: Pass** 



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	56.3	40.5	66.0	56.0
0.230	Neutral	49.1	35.2	61.4	51.4
1.655	Neutral	45.0	34.2	56.0	46.0
3.570	Neutral	50.1	39.4	56.0	46.0

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#### Y:

#### **EUT Operating Environment**

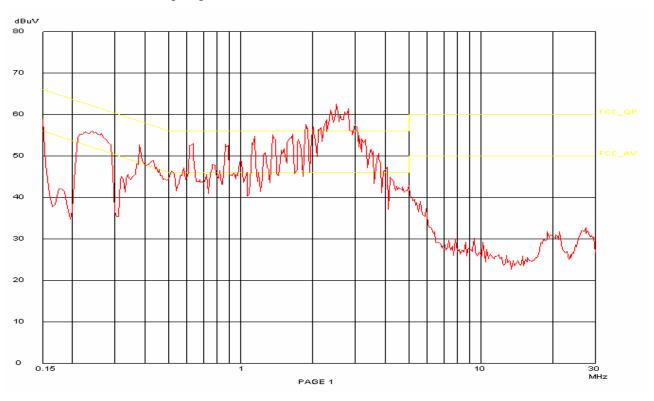
Humidity: 75%RH Temperature: 25°C Atmospheric Pressure: 101 KPa

**EUT set Condition: VGA (Connected to PC)** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Live	59.7	46.5	66.0	56.0
0.240	Live	52.3	40.3	62.1	52.1
1.150	Live	52.0	40.2	56.0	46.0
1.650	Live	53.2	41.2	56.0	46.0
2.495	Live	54.4	43.6	56.0	46.0

NOTE: Set the resolution of 1366 \* 768, and display full screen "H" rolling pattern.

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#### Z: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

#### **EUT Operating Environment**

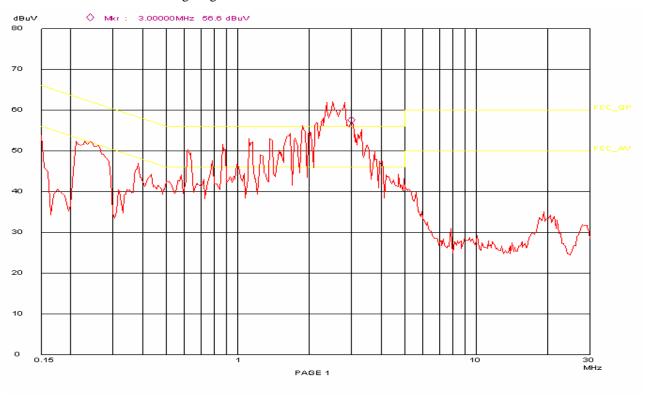
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: VGA (Connected to PC)** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	$Reading(dB\mu V)$		$Limit(dB\mu V)$	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.150	Neutral	58.0	46.8	66.0	56.0
1.905	Neutral	52.1	38.7	56.0	46.0
2.410	Neutral	54.2	43.5	56.0	46.0
2.500	Neutral	54.6	43.1	56.0	46.0
2.812	Neutral	54.4	44.2	56.0	46.0

NOTE: Set the resolution of 1366 \* 768, and display full screen "H" rolling pattern.

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#### 5.0 Radiated Disturbance Test

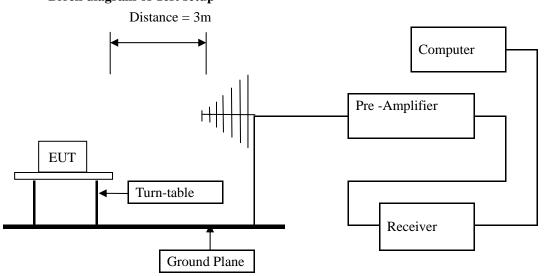
#### 5.1 Schematics of the test



#### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

#### 5.4 Test result

The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters. For the radiated emission from 2GHz-5GHz, the final measurement emission level is less than the limit for 20dB.

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<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



#### A: Radiated Disturbance (30MHz----1000MHz)

#### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-54.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File: CV32 Data:#30 Date: 10/07/01/ Time: 15/08/38 80.0 dBuV/m QP: Margin: 0.0 (MHz) 600 700 1000.000 30.000 40 50 60 70 300 400 500

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
144.081	37.17	Н	43.50
228.850	38.68	Н	46.00
245.825	42.54	Н	46.00
291.900	36.06	Н	46.00
839.950	38.56	Н	46.00
73.650	31.63	Н	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



#### Radiated Disturbance (1000MHz----2000MHz)

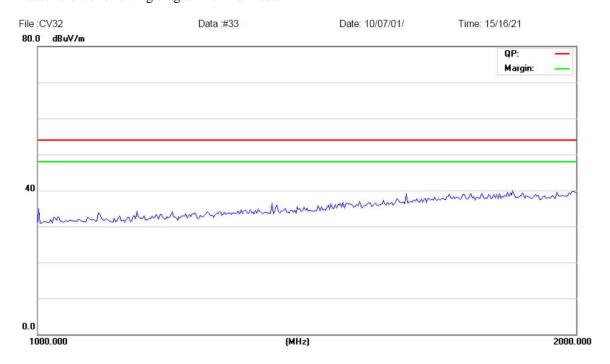
#### **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-54.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# B: Radiated Disturbance (30MHz----1000MHz)

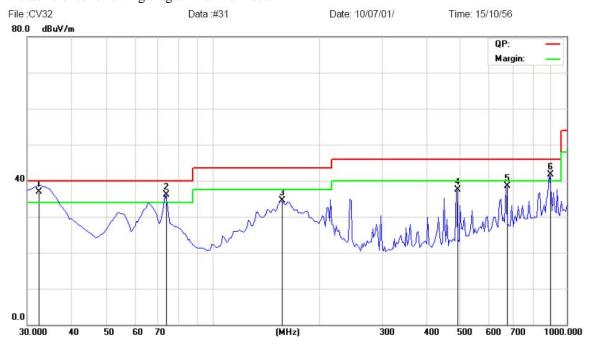
# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-54.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
32.425	36.98	V	40.00
73.650	36.03	V	40.00
156.100	34.47	V	43.50
488.325	37.52	V	46.00
677.475	38.57	V	46.00
893.300	41.67	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## Radiated Disturbance (1000MHz----2000MHz)

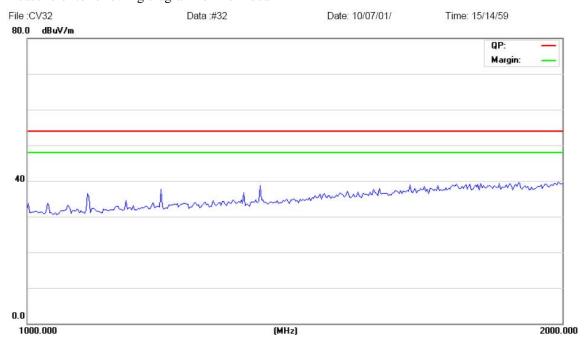
# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-54.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		V	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# C: Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition:** Input DTV-198.31MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
119.725	34.88	Н	43.50
180.350	38.80	Н	43.50
245.825	42.77	Н	46.00
893.300	38.09	Н	46.00
299.175	33.15	Н	46.00
61.525	24.71	Н	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-198.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# D: Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-198.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
158.667	34.68	V	43.50
245.825	34.96	V	46.00
488.325	35.31	V	46.00
677.475	38.45	V	46.00
847.225	41.01	V	46.00
61.525	31.50	V	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

2000.000

Report No: 1006356 Date: 2010-07-07



# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25 °C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-198.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

1000.000

Please refer to following diagram for individual

File:CV32 Data:#27 Date: 10/07/01/ Time: 14/41/47 80.0 dBuV/m QP: Margin: 0.0 (MHz)

I	Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
	1082.500	42.39 (PK)	V	54.00 (AV)
	1352.500	40.20 (PK)	V	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# E: Radiated Disturbance (30MHz----1000MHz)

# **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-554.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File: CV32 Data:#34 Date: 10/07/01/ Time: 15/27/39 80.0 dBuV/m QP: Margin: which the Manufacture 0.0 30.000 70 (MHz) 300 400 600 700 1000.000

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
245.825	42.84	Н	46.00
793.875	42.81	Н	46.00
144.082	35.53	Н	43.50
839.950	39.49	Н	46.00
289.475	34.70	Н	46.00
73.650	31.40	Н	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

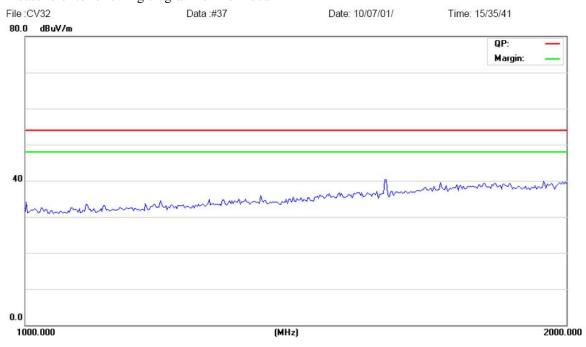
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-554.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

-The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# F: Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-554.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
73.650	36.31	V	40.00
245.825	34.89	V	46.00
488.325	38.34	V	46.00
793.875	42.80	V	46.00
893.300	41.81	V	46.00
34.850	35.79	V	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

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# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input DTV-554.31MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
1590.00	41.14 (PK)	V	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# G: Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 1 Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
143.975	38.29	Н	43.50
245.825	42.84	Н	46.00
405.875	42.99	Н	46.00
541.675	42.24	Н	46.00
810.850	41.65	Н	46.00
946.650	42.97	Н	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

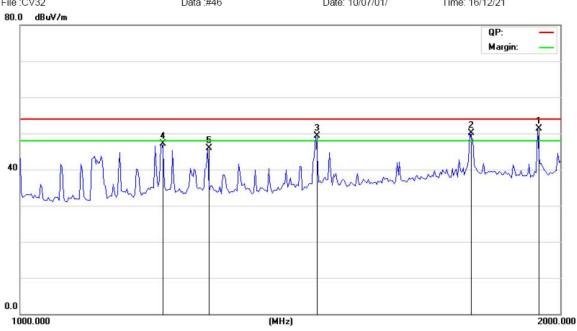
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 1 Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File:CV32 Data:#46 Date: 10/07/01/ Time: 16/12/21



Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
1945.000	51.30 (PK)	Н	54.00 (AV)
1782.500	50.20 (PK)	Н	54.00 (AV)
1462.500	49.21 (PK)	Н	54.00 (AV)
1200.000	47.11 (PK)	Н	54.00 (AV)
1127.500	45.84 (PK)	Н	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# H: Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 1 Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
946.650	43.56	V	46.00
730.825	42.79	V	46.00
650.800	43.92	V	46.00
541.675	43.65	V	46.00
488.325	40.92	V	46.00
73.650	36.10	V	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



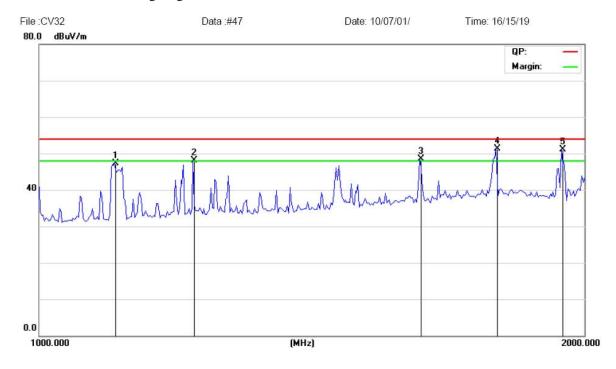
# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 1 Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
1100.00	47.32 (PK)	V	54.00 (AV)
1217.500	48.01 (PK)	V	54.00 (AV)
1622.500	48.51 (PK)	V	54.00 (AV)
1787.500	51.32 (PK)	V	54.00 (AV)
1945.000	51.13 (PK)	V	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



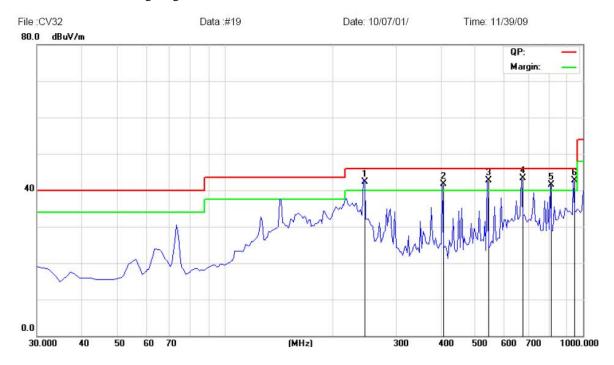
# I Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: HDMI 2 Equipment Level: Class B

**Results: Pass** 



	Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
	245.825	42.34	Н	46.00
	405.875	41.72	Н	46.00
Ī	541.675	42.65	Н	46.00
Ī	677.475	43.26	Н	46.00
	810.850	41.41	Н	46.00
Ī	946.650	42.63	Н	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 2 Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File :CV32 Data :#49 Date: 10/07/01/ Time: 16/22/18

80.0 dBuV/m

QP:
Margin:

1000.000 (MHz) 2000.000

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
1112.500	46.19 (PK)	Н	54.00 (AV)
1217.500	50.42 (PK)	Н	54.00 (AV)
1272.500	47.65 (PK)	Н	54.00 (AV)
1487.500	48.14 (PK)	Н	54.00 (AV)
1782.500	51.38 (PK)	Н	54.00 (AV)
1945.000	51.84 (PK)	Н	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



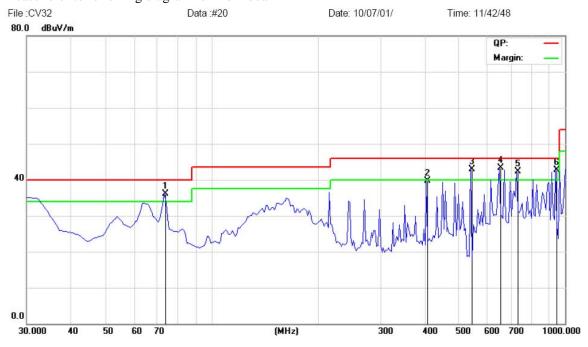
# J Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 2 Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
73.650	36.17	V	40.00
405.875	39.67	V	46.00
541.675	42.97	V	46.00
650.800	43.29	V	46.00
730.825	42.24	V	46.00
946.650	42.80	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: HDMI 2 Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
1112.500	45.09(PK)	V	54.00(AV)
1217.500	44.65(PK)	V	54.00(AV)
1460.000	48.27(PK)	V	54.00(AV)
1620.000	45.76(PK)	V	54.00(AV)
1785.000	48.06(PK)	V	54.00(AV)
1950.000	51.98(PK)	V	54.00(AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# K Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: VGA (Connected to PC)** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
245.825	43.91	Н	46.00
143.975	36.15	Н	43.50
231.312	39.25	Н	46.00
379.200	38.23	Н	46.00
282.200	37.05	Н	46.00
333.125	37.41	Н	46.00

NOTE: Set the resolution of 1366 \* 768, and display full screen "H" rolling pattern.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

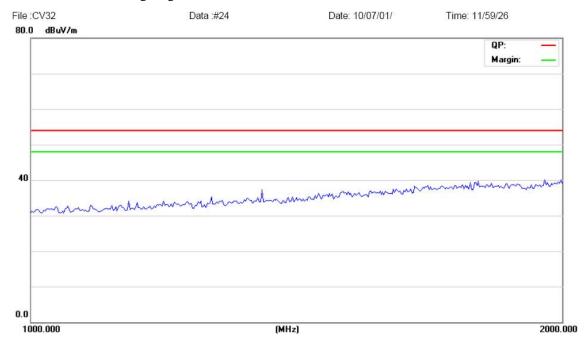
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: VGA (Connected to PC)** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

NOTE1: The test data shows much less than the limit, no necessary take down the records.

NOTE2: Set the resolution of 1366 \* 768, and display full screen "H" rolling pattern.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## L Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

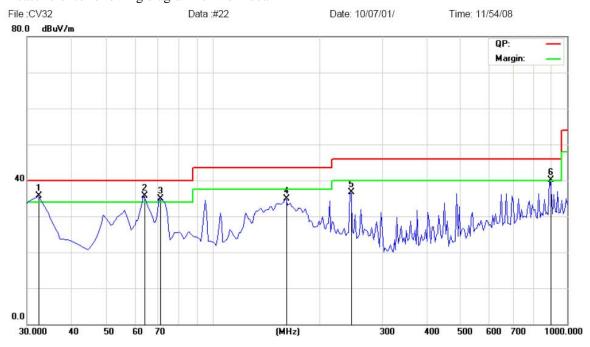
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: VGA (Connected to PC)** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
32.425	35.69	V	40.00
63.950	35.63	V	40.00
71.225	34.94	V	40.00
160.950	34.82	V	43.50
245.825	36.74	V	46.00
893.300	40.14	V	46.00

NOTE: Set the resolution of 1366 \* 768, and display full screen "H" rolling pattern.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

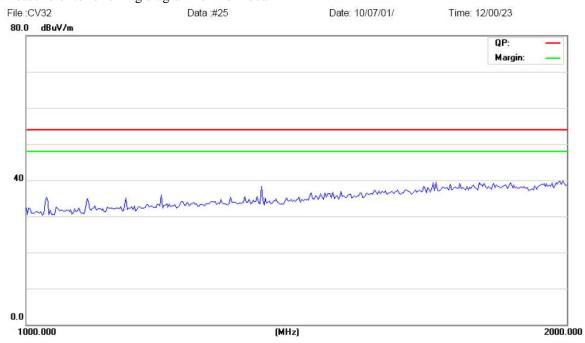
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: VGA (Connected to PC)** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		V	

NOTE1: The test data shows much less than the limit, no necessary take down the records.

NOTE2: Set the resolution of 1366 \* 768, and display full screen "H" rolling pattern.



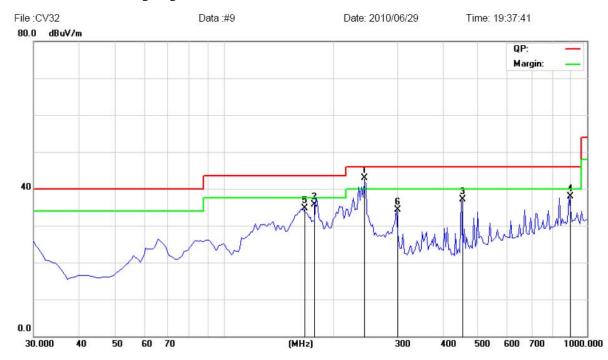
# M Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition:** AV IN **Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
242.995	42.83	Н	46.00
176.878	35.68	Н	43.50
451.950	37.08	Н	46.00
893.300	37.81	Н	46.00
165.800	34.78	Н	43.50
299.175	34.38	Н	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



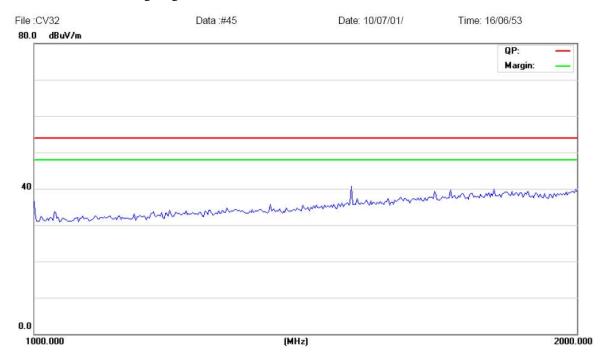
## Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: AV IN Equipment Level: Class B** 

**Results: Pass** 



Frequ	ency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
			Н	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



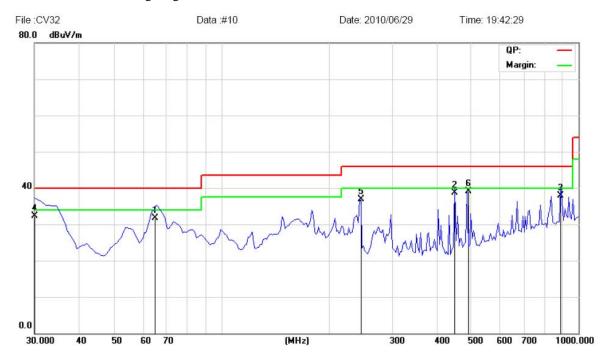
# N Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: AV IN Equipment Level: Class B

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
64.982	31.74	V	40.00
449.991	38.68	V	46.00
890.954	37.96	V	46.00
30.00	32.34	V	40.00
245.825	36.86	V	46.00
488.325	39.04	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



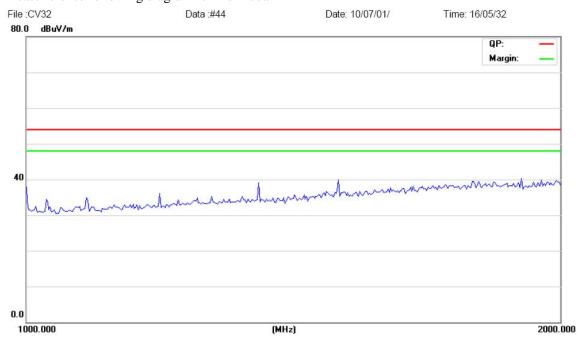
## Radiated Disturbance (1000MHz----2000MHz)

## **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: AV IN Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		V	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# O Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-61.25 MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File :CV32 Data :#11 Date: 2010-6-30 Time: 10:41:29

80.0 dBuV/m

QP:
Margin:

0.0
30,000 40 50 60 70 (MHz) 300 400 500 600 700 1000.000

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
73.650	30.70	Н	40.00
146.400	37.03	Н	43.50
242.985	41.91	Н	46.00
284.625	37.99	Н	46.00
895.725	38.84	Н	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

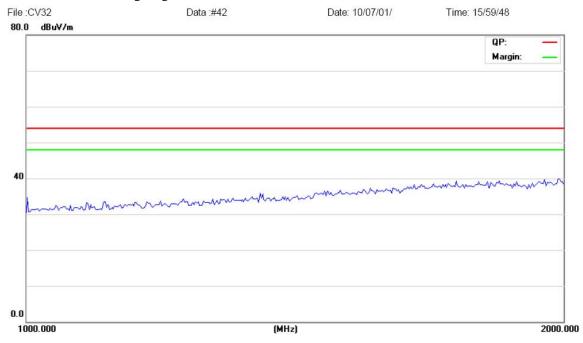
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-61.25 MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

-The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# P Radiated Disturbance (30MHz----1000MHz)

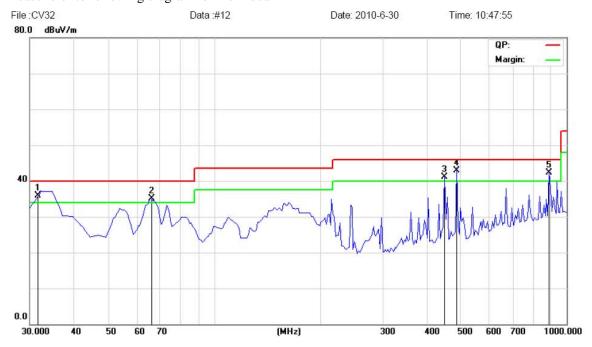
## **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-61.25 MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
31.520	35.91	V	40.00
66.375	35.17	V	40.00
449.979	41.06	V	46.00
485.967	42.97	V	46.00
890.960	42.36	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



## Radiated Disturbance (1000MHz----2000MHz)

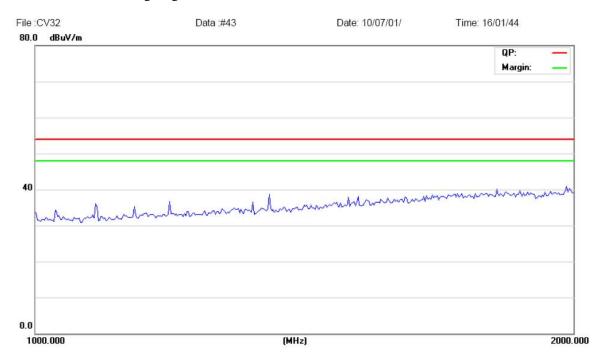
# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-61.25 MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
		V	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Q Radiated Disturbance (30MHz----1000MHz)

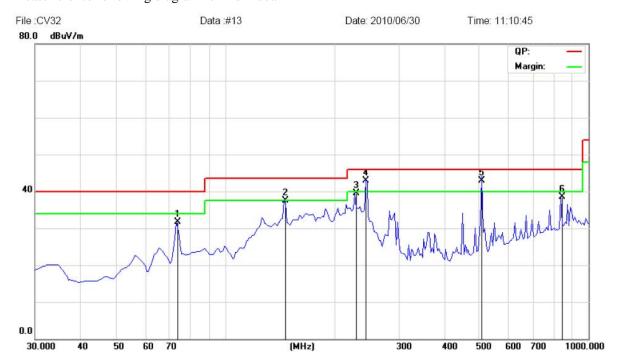
## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition:** Input ATV-633.25MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
73.650	31.65	Н	40.00
146.400	37.45	Н	43.50
228.850	39.46	Н	46.00
242.983	42.89	Н	46.00
506.236	42.92	Н	46.00
839.950	38.52	Н	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

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# Radiated Disturbance (1000MHz----2000MHz)

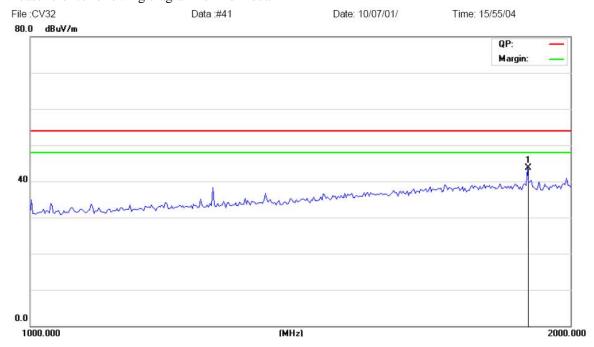
# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input ATV-633.25MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m ( $dB\mu V/m$ )
1895.000	43.73 (PK)	Н	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# R Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input ATV-633.25MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File:CV32 Data:#14 Date: 2010/06/30 Time: 11:18:37 80.0 dBuV/m QP: Margin 0.0 (MHz) 30,000 60 300 400 600 700 1000.000 500

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
506.244	43.03	V	46.00
899.973	38.06	V	46.00
488.325	41.52	V	46.00
216.725	37.06	V	46.00
66.375	34.86	V	40.00
34.850	35.09	V	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

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# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input ATV-633.25MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	$Limit@3m (dB\mu V/m)$
1895.000	45.76 (PK)	V	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# S Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input ATV-795.25MHz TV Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
742.249	43.29	Н	46.00
242.983	42.65	Н	46.00
228.850	38.77	Н	46.00
294.325	35.08	Н	46.00
488.325	34.11	Н	46.00
73.650	31.16	Н	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

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# Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-795.25MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	Limit@3m (dBµV/m)
1590.000	47.77 (PK)	Н	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# T Radiated Disturbance (30MHz----1000MHz)

### **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-795.25MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File: CV32 Data:#15 Date: 2010/06/30 Time: 11:44:48 80.0 dBuV/m QP: Margin 0.0 30,000 (MHz) 300 400 500 600 700 1000.000 60

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
742.241	43.18	V	46.00
65.031	34.66	V	40.00
674.991	33.91	V	46.00
488.325	38.33	V	46.00
216.725	37.34	V	46.00
34.850	35.30	V	40.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Radiated Disturbance (1000MHz----2000MHz)

## **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input ATV-795.25MHz TV Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

	Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
Ī	1352.500	40.04 (PK)	V	54.00 (AV)
I	1590.000	44.34 (PK)	V	54.00 (AV)

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# U: Radiated Disturbance (30MHz----1000MHz)

### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Input FM88.1MHz Radio TV Signal

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

File : CV32 Data :#4 Date: 2010/06/29 Time: 18:27:23

80.0 dBuV/m

QP:
Margin:

0.0 dBuV / Margin:

0.0 dB

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
242.966	38.59	Н	46.00
284.625	40.07	Н	46.00
163.375	36.51	Н	43.50
146.400	36.25	Н	43.50
839.950	38.62	Н	46.00
73.650	30.42	Н	40.00

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### Radiated Disturbance (1000MHz----2000MHz)

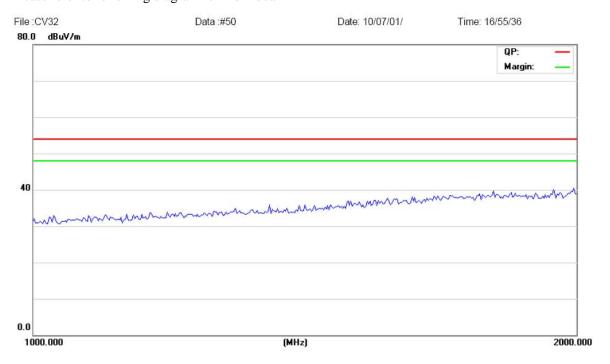
# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM88.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# V: Radiated Disturbance (30MHz----1000MHz)

### **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM88.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Data:#3 Date: 2010/06/29 Time: 18:20:01 File: CV32 80.0 dBuV/m QP: Margin: 30.000 40 50 60 70 (MHz) 300 400 500 600 700 1000.000

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
30.000	32.86	V	40.00
66.375	34.74	V	40.00
216.725	38.06	V	46.00
245.825	35.31	V	46.00
488.325	38.17	V	46.00
893.300	39.56	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



### Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

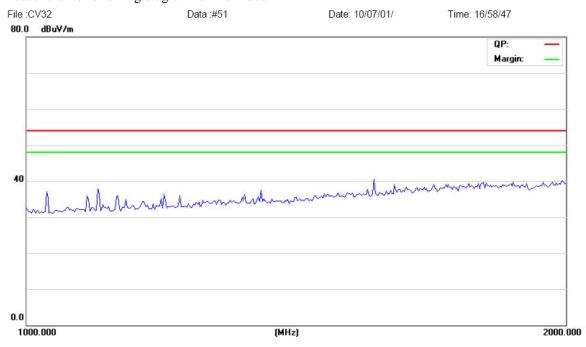
Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM88.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		V	

-The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# W Radiated Disturbance (30MHz----1000MHz)

### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition:** Input FM98.1MHz Radio Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
242.991	40.18	Н	46.00
290.254	38.58	Н	46.00
163.375	35.19	Н	43.50
146.400	35.47	Н	43.50
73.650	30.90	Н	40.00
367.075	30.38	Н	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



### Radiated Disturbance (1000MHz----2000MHz)

# **EUT Operating Environment**

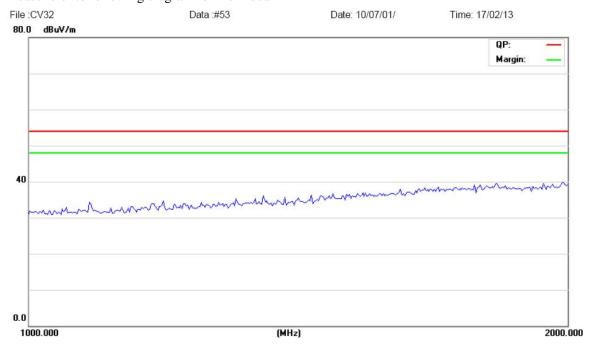
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM98.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

-The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# X Radiated Disturbance (30MHz----1000MHz)

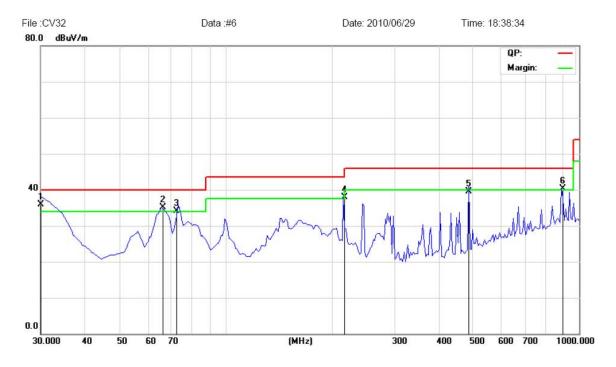
### **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM98.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
30.000	35.86	V	40.00
66.375	35.12	V	40.00
72.640	34.09	V	40.00
216.725	37.83	V	46.00
485.973	39.45	V	46.00
893.300	40.00	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



### Radiated Disturbance (1000MHz----2000MHz)

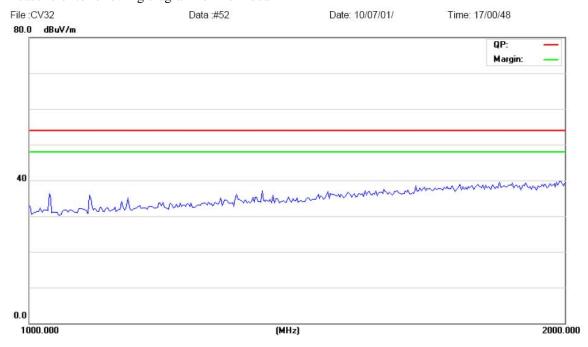
# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM98.1MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		V	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Y Radiated Disturbance (30MHz----1000MHz)

### **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition:** Input FM107.9MHz Radio Signal

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m ( $dB\mu V/m$ )	Antenna Polarity	$Limit@3m (dB\mu V/m)$
242.967	39.62	Н	46.00
290.248	39.35	Н	46.00
146.400	35.75	Н	43.50
73.650	30.77	Н	40.00
839.950	38.29	Н	46.00
163.375	34.86	Н	43.50

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



### Radiated Disturbance (1000MHz----2000MHz)

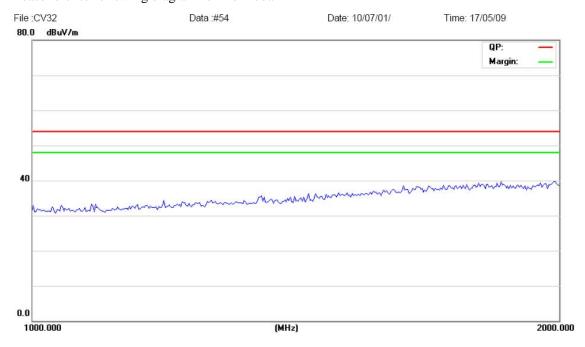
# **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM107.9MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		Н	

<sup>-</sup>The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



# Z Radiated Disturbance (30MHz----1000MHz)

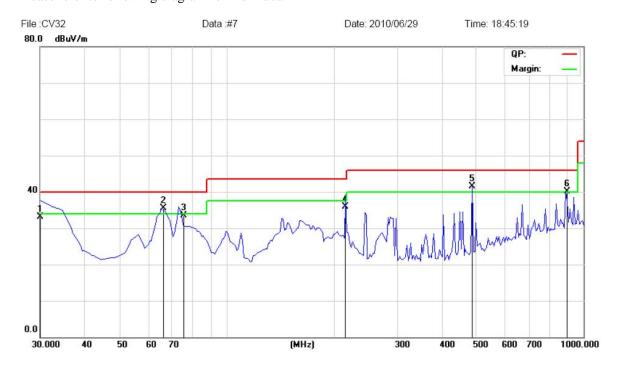
### **EUT Operating Environment**

Temperature:25 ℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM107.9MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
30.00	33.06	V	40.00
66.375	35.57	V	40.00
75.540	33.52	V	40.00
214.728	35.95	V	43.50
485.974	41.52	V	46.00
893.300	40.18	V	46.00

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.



### Radiated Disturbance (1000MHz----2000MHz)

## **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Input FM107.9MHz Radio Signal** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
		V	

-The test data shows much less than the limit, no necessary take down the records.

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

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#### 5.0 Antenna conducted Power

#### 5.1 Test Method

- 1 The EUT was placed on a table, which is 0.8m above ground plane
- 2 Maximum procedure was performed to ensure EUT compliance
- 3 A impedance matching pad(750hm/500hm) is used for the test from the tuner to the receiver input port
- 4 A EMI test receiver(R&S Test Receiver ESCS30) is used to test the emissions from the antenna port through the impedance matching pad

### 5.2 Limit

Frequency	Power	Voltage	Detector
MHz	nW	$dB\mu V$	
30-5000	2	51.8	PK

Remark: During the Antenna conducted power test, all the channels in TV mode, DTV mode and FM mode are applied, and the results are met the limit of requirement, the test data which listed in the report are the typical Channels of High Middle and Low

Test mode	TV61.2	25MHz	Frequency Range	30M-1000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
389.45	37.87	33.65	51.8	13.93
873.29	38.31	34.57	51.8	13.49
Test mode	TV633.25MHz		Frequency Range	30M-5000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
505.42	44.26	32.53	51.8	7.54
830.35	38.46	33.25	51.8	13.34
1273.62	41.20	35.73	51.8	10.60
1894.45	40.92	35.12	51.8	10.88
Test mode	TV795.25MHz		Frequency Range	30M-5000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
747.35	45.15	39.53	51.8	6.65
945.64	41.43	35.65	51.8	10.37
1596.27	39.63	34.23	51.8	12.17
2412.34	40.19	33.81	51.8	10.61

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30M-5000MHz

Margin

(dB)

10.15

13.27

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Test mode

Frequency

(MHz)

244.85

874.34

Test mode	DTV54.31MHz		Frequency Range	30M-1000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
481.34	38.51	34.64	51.8	13.29
856.49	39.43	35.72	51.8	12.37
	DTV198.31MHz			
Test mode	DTV198	3.31MHz	Frequency Range	30M-2000MHz
Test mode Frequency	DTV198 Emission level	3.31MHz Reading level	Frequency Range Limit	30M-2000MHz Margin
			1 2	
Frequency	Emission level	Reading level	Limit	Margin
Frequency (MHz)	Emission level $(dB\mu V)$	Reading level (dBµV)	Limit (dBµV)	Margin (dB)
Frequency (MHz) 248.78	Emission level (dBµV) 33.21	Reading level (dBµV) 29.35	Limit (dBμV) 51.8	Margin (dB) 18.59

Reading level

 $(dB\mu V)$ 

37.54

34.62

Frequency Range

Limit

 $(dB\mu V)$ 

51.8

51.8

DTV554.31MHz

Emission level

 $(dB\mu V)$ 

41.65

38.53

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Test mode	FM88.1MHz		Frequency Range	30M-1000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
306.24	34.51	30.22	51.8	17.29
654.02	32.57	28.16	51.8	19.23

Test mode	FM98	FM98.1MHz		30M-1000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
782.46	36.58	31.24	51.8	15.22
812.30	38.14	33.15	51.8	13.66

Test mode	FM107	FM107.9MHz		30M-1000MHz
Frequency	Emission level	Reading level	Limit	Margin
(MHz)	$(dB\mu V)$	$(dB\mu V)$	$(dB\mu V)$	(dB)
864.28	38.69	32.66	51.8	13.11
932.44	40.19	34.12	51.8	11.61

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Report No: 1006356 Date: 2010-07-07 6.0 **FCC Label** 

> This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any

interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

FCC ID: WQ5CV32

Mark Location: On the product body

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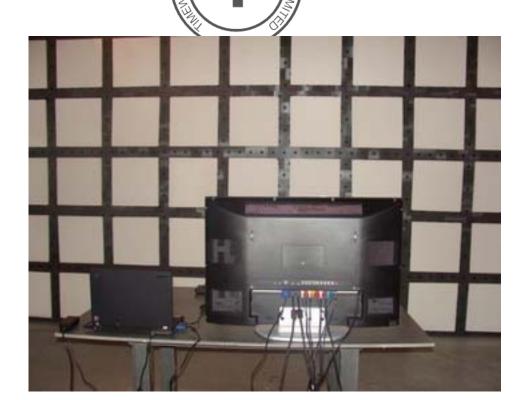
- 7.0 Photo of testing
- Radiated emission test view--



7.2 Radiated emission test view--

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Conducted test View--



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#### 7.3 Photo for the EUT



**Back View** 

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Side View



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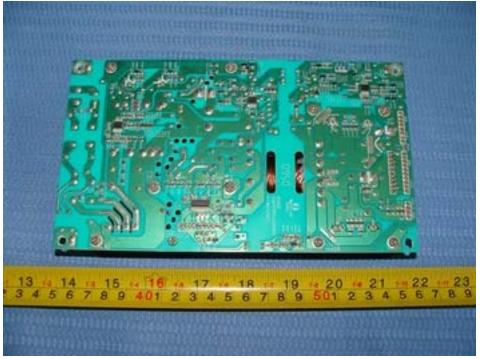
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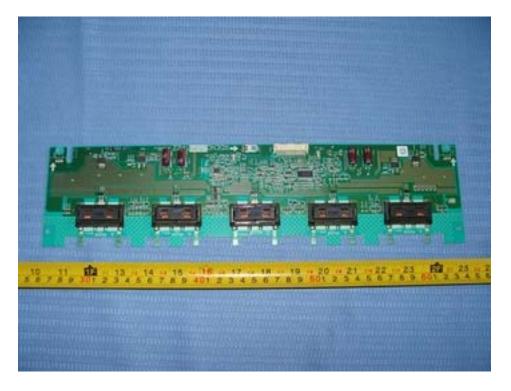
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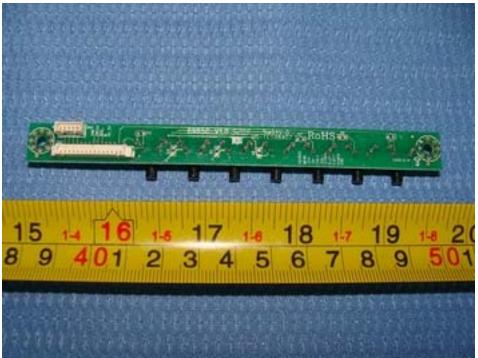


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-End of the report-

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