



FCC DOC TEST REPORT

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22

Applicant	: Zhejiang Dahua Vision Technology Co., Ltd.
Address	: The 1 st floor, building F, No.1199 Bin'an road, Changhe Street, Binjiang District, Hangzhou, P.R. China.
Equipment	: HDCVI CAMERA
Model No.	: HAC-HF3101P, HAC-HF3101N, DH-HAC-HF3101P, DH-HAC-HF3101N

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of **CerpPASS Technology Corp.** the test report shall not be reproduced except in full.



Contents

1. Summary of Test Procedure and Test Result	5
2. Test Configuration of Equipment under Test.....	6
2.1. Manufacturer.....	6
2.2. Feature of Equipment under Test	6
2.3. Test Manner.....	7
2.4. Description of Test System	8
2.5. General Information of Test	9
2.6. Measurement Uncertainty	9
3. Test of Conducted Emission	10
3.1. Test Limit.....	10
3.2. Test Procedures.....	10
3.3. Typical test Setup	11
3.4. Measurement equipment.....	11
3.5. Test Result and Data	12
3.6. Test Photographs.....	16
4. Test of Radiated Emission	18
4.1. Test Limit.....	18
4.2. Test Procedures.....	18
4.3. Typical test Setup	19
4.4. Measurement equipment.....	20
4.5. Test Result and Data (30MHz ~ 1000MHz).....	21
4.6. Test Result and Data (1000MHz ~ 18000MHz).....	25
4.7. Test Photographs (30MHz ~ 1000MHz)	29
4.8. Test Photographs (1000MHz ~ 18000MHz)	31
5. Photographs of EUT	33



History of this test report

☒ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Date	Description



FCC DOC TEST REPORT

Declaration of Conformity

According to

47 CFR, Part 2, Part 15, CISPR PUB. 22

Applicant : Zhejiang Dahua Vision Technology Co., Ltd.

Address : The 1st floor, building F, No.1199 Bin'an road, Changhe Street,
Binjiang District, Hangzhou, P.R. China.

Equipment : HDCVI CAMERA

Model No. : HAC-HF3101P, HAC-HF3101N, DH-HAC-HF3101P,
DH-HAC-HF3101N

I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2009** and the energy emitted by this equipment was **passed CISPR PUB. 22, FCC Part 15** in both radiated and conducted emission class B limits.
Testing was carried out on Jan 25, 2014 at CerpPASS Technology Corp.

Signature

Hill Chen

EMC/RF B.U. Assistant Manager



1. Summary of Test Procedure and Test Result

Test Item	Normative References	Test Result
Conducted Emission	ANSI C63.4-2009 FCC Part 15 Subpart B	PASS
Radiated Emission	ANSI C63.4-2009 FCC Part 15 Subpart B	PASS





2. Test Configuration of Equipment under Test

2.1. Manufacturer

Zhejiang Dahua Vision Technology Co., Ltd.

The 1st floor, building F, No.1199 Bin'an road, Changhe Street, Binjiang District, Hangzhou, P.R. China.

2.2. Feature of Equipment under Test

HDCVI CAMERA	Model No.:	HAC-HF3101P, HAC-HF3101N, DH-HAC-HF3101P, DH-HAC-HF3101N
Remark	HAC-HF3101P was selected as the test model and its data have been recorded in this report.	
Adapter 1	Model No.:	ADS-24RD-12 1224G
	Input :	100-240V~ 50/60Hz Max.0.7A
	Output :	12V  2.0A
Adapter 2	Model No.:	A12-3A-10
	Input :	120VAC~ 60Hz 46W
	Output :	24V  1500mA

Models' Differences:

Model No	HAC-HF3101P, HAC-HF3101N, DH-HAC-HF3101P, DH-HAC-HF3101N
Differences	Hardware circuit and the shell structure are the same, they are only different in internal procedures or whether the shell with logo or not.



2.3. Test Manner

Test Manner

- a During testing, the interface cables and equipment positions were varied according to ANSI C63.4-2009
- b Turn on the power of all equipment.
- c The complete test system included Monitor, DVR, DVD and EUT for EMC test.

The pre-test modes

Test Mode 1: Normal Operation with ADS-24RD-12 1224G

Test Mode 2: Normal Operation with A12-3A-10

Select the worst case of the pre-test modes as the final test mode

Test Mode 1: Normal Operation with ADS-24RD-12 1224G

Test Mode 2: Normal Operation with A12-3A-10

**2.4. Description of Test System**

No	Device	Manufacturer	Model No.	Description
1	Monitor	PTS	PTS-1401C	Unshielded, 1.8m
2	DVR	DAHUA	DVR5208	Unshielded, 1.8m
3	DVD	Pioneer	DV-600AV-S	Unshielded, 1.8m

No	Cable	Quantity	Description
A	BNC Cable	1	Shielded, >3.0m
B	BNC Cable	1	Shielded, >3.0m
C	BNC Cable	1	Shielded, >3.0m



2.5. General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS2-SD) :	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1061
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-1173 for Telecommunication Test C-4139 for Conducted emission test R-3428 for Radiated emission test G-97 for radiated disturbance above 1GHz
Frequency Range Investigated :	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 1,000 MHz Radiation: from 1,000 MHz to 18,000 MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 3 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.



2.6. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE / NEUTRAL	3.25 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Vertical / Horizontal	3.93 dB
	1,000 MHz ~ 18,000 MHz	Vertical / Horizontal	5.18 dB



3. Test of Conducted Emission

3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

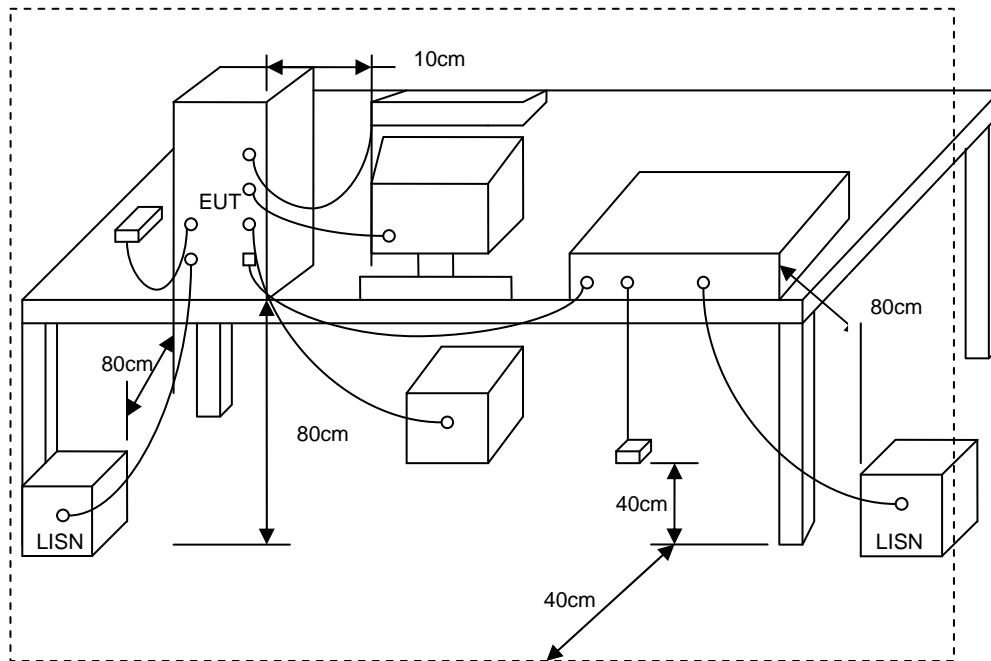
Conducted Emission Limits:

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

3.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.3. Typical test Setup



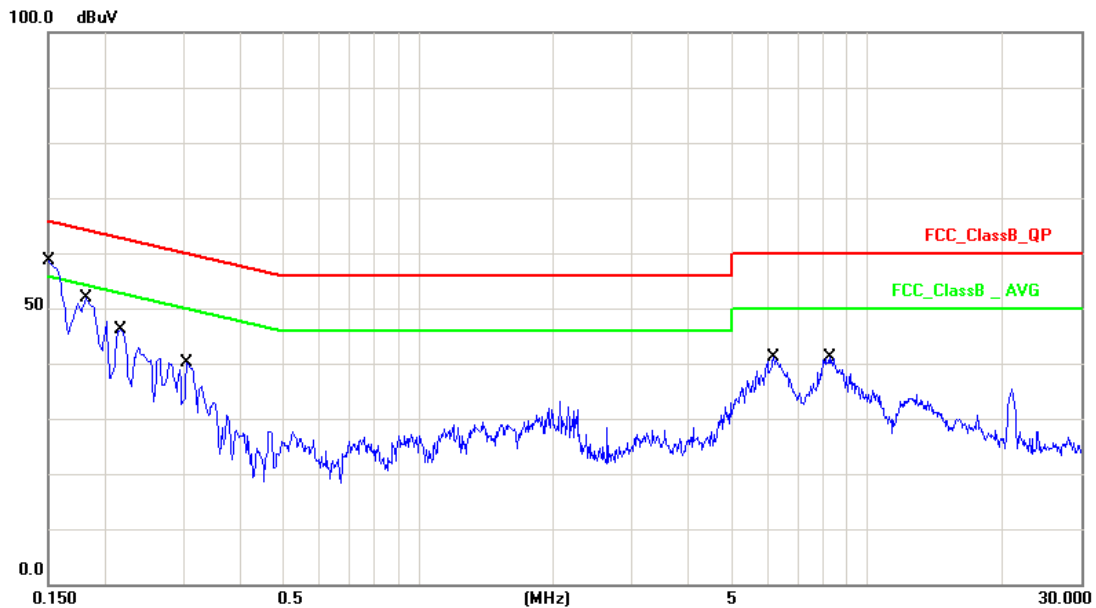
3.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2013.03.10	2014.03.09
AMN	R&S	ESH2-Z5	100182	2013.09.11	2014.09.10
Two-Line V-Network	R&S	ENV216	100325	2013.03.10	2014.03.09
ISN	FCC	FCC-TLISN-T2-02	20379	2013.06.25	2014.06.24
ISN	FCC	FCC-TLISN-T4-02	20380	2013.06.25	2014.06.24
ISN	FCC	FCC-TLISN-T8-02	20381	2013.07.09	2014.07.08
ISN	TESEQ	ISN ST08	30175	2013.09.11	2014.09.10
Current Probe	R&S	EZ-17	100303	2013.03.10	2014.03.09
Passive Voltage Probe	R&S	ESH2-Z3	100026	2013.03.10	2014.03.09
Pulse Limiter	R&S	ESH3-Z2	100529	2013.03.10	2014.03.09
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2013.03.10	2014.03.09



3.5. Test Result and Data

Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25

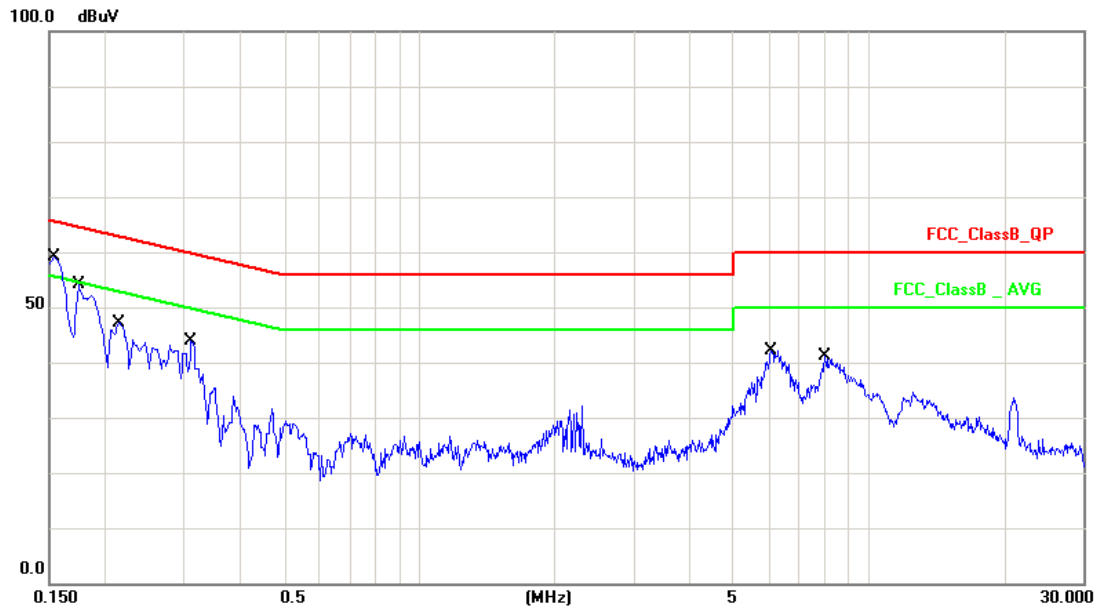


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	45.03	55.16	65.99	-10.83	QP
2	0.1500	10.13	26.40	36.53	55.99	-19.46	AVG
3	0.1825	10.12	38.85	48.97	64.37	-15.40	QP
4	0.1825	10.12	20.11	30.23	54.37	-24.14	AVG
5	0.2180	10.12	33.54	43.66	62.89	-19.23	QP
6	0.2180	10.12	16.49	26.61	52.89	-26.28	AVG
7	0.3060	10.14	25.01	35.15	60.08	-24.93	QP
8	0.3060	10.14	13.36	23.50	50.08	-26.58	AVG
9	6.2180	10.25	25.76	36.01	60.00	-23.99	QP
10	6.2180	10.25	14.86	25.11	50.00	-24.89	AVG
11	8.2380	10.25	25.19	35.44	60.00	-24.56	QP
12	8.2380	10.25	15.24	25.49	50.00	-24.51	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25

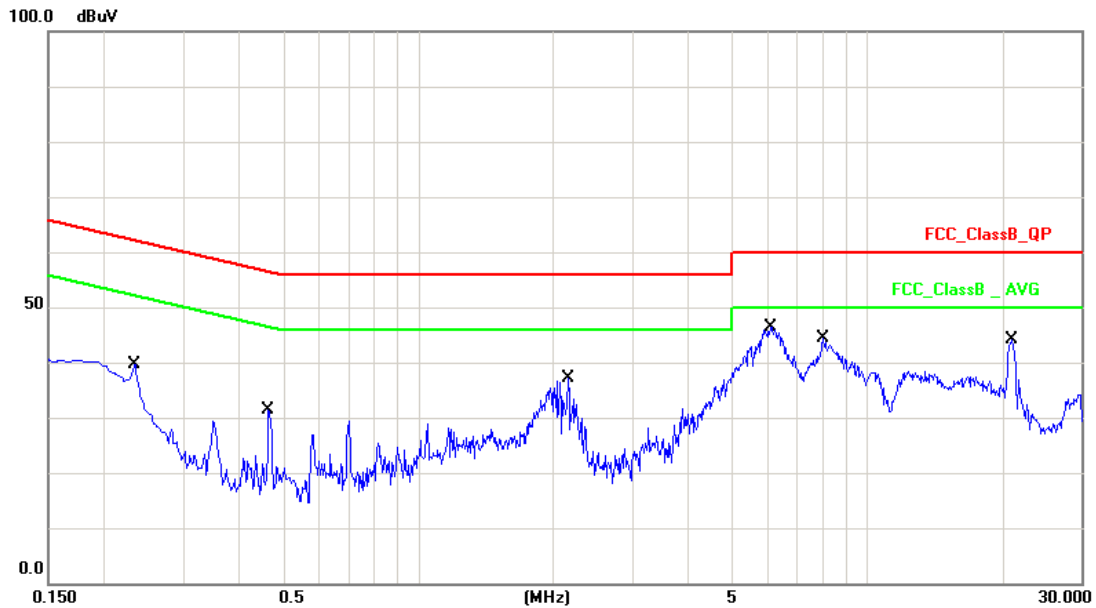


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	10.13	46.32	56.45	65.78	-9.33	QP
2	0.1539	10.13	29.63	39.76	55.78	-16.02	AVG
3	0.1740	10.13	40.37	50.50	64.76	-14.26	QP
4	0.1740	10.13	20.22	30.35	54.76	-24.41	AVG
5	0.2140	10.13	33.69	43.82	63.04	-19.22	QP
6	0.2140	10.13	16.06	26.19	53.04	-26.85	AVG
7	0.3100	10.14	30.12	40.26	59.97	-19.71	QP
8	0.3100	10.14	21.87	32.01	49.97	-17.96	AVG
9	6.0660	10.27	25.99	36.26	60.00	-23.74	QP
10	6.0660	10.27	15.06	25.33	50.00	-24.67	AVG
11	8.0020	10.26	27.45	37.71	60.00	-22.29	QP
12	8.0020	10.26	22.34	32.60	50.00	-17.40	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25

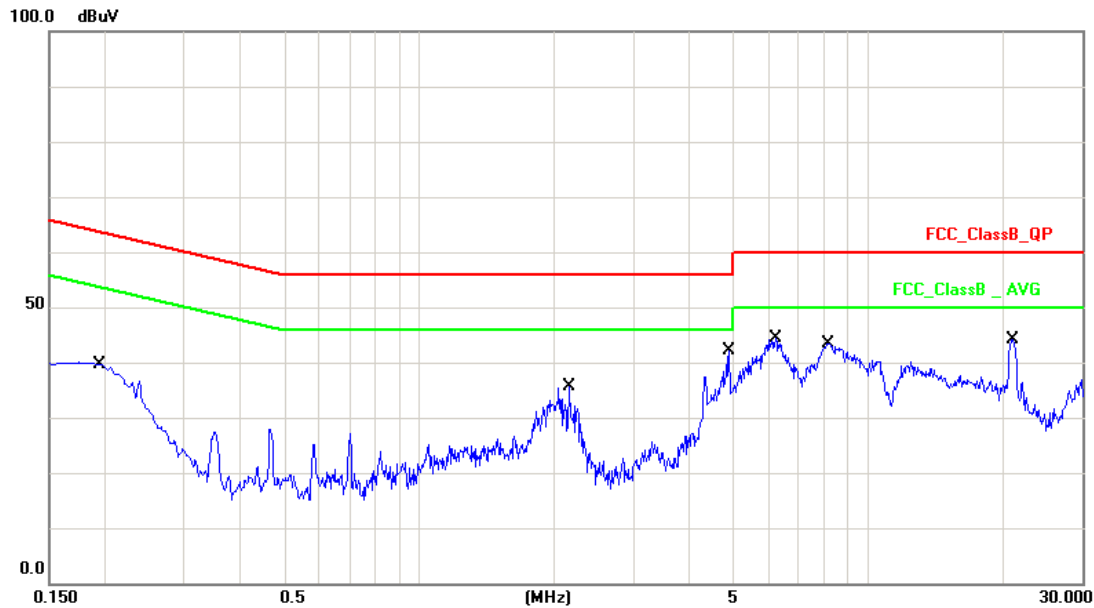


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2340	10.12	24.61	34.73	62.30	-27.57	QP
2	0.2340	10.12	21.69	31.81	52.30	-20.49	AVG
3	0.4660	10.16	19.06	29.22	56.58	-27.36	QP
4	0.4660	10.16	16.17	26.33	46.58	-20.25	AVG
5	2.1619	10.17	21.84	32.01	56.00	-23.99	QP
6	2.1619	10.17	8.77	18.94	46.00	-27.06	AVG
7	6.0939	10.25	30.55	40.80	60.00	-19.20	QP
8	6.0939	10.25	19.69	29.94	50.00	-20.06	AVG
9	8.0020	10.25	29.72	39.97	60.00	-20.03	QP
10	8.0020	10.25	23.94	34.19	50.00	-15.81	AVG
11	20.9820	10.36	31.76	42.12	60.00	-17.88	QP
12	20.9820	10.36	31.53	41.89	50.00	-8.11	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Phase :	NEUTRAL
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temperature :	26°C	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1940	10.13	22.81	32.94	63.86	-30.92	QP
2	0.1940	10.13	0.77	10.90	53.86	-42.96	AVG
3	2.1660	10.18	19.16	29.34	56.00	-26.66	QP
4	2.1660	10.18	8.14	18.32	46.00	-27.68	AVG
5	4.9060	10.26	25.53	35.79	56.00	-20.21	QP
6	4.9060	10.26	10.69	20.95	46.00	-25.05	AVG
7	6.2460	10.27	28.39	38.66	60.00	-21.34	QP
8	6.2460	10.27	16.83	27.10	50.00	-22.90	AVG
9	8.1860	10.26	28.75	39.01	60.00	-20.99	QP
10	8.1860	10.26	18.47	28.73	50.00	-21.27	AVG
11	21.0180	10.43	31.80	42.23	60.00	-17.77	QP
12	21.0180	10.43	31.39	41.82	50.00	-8.18	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Dian



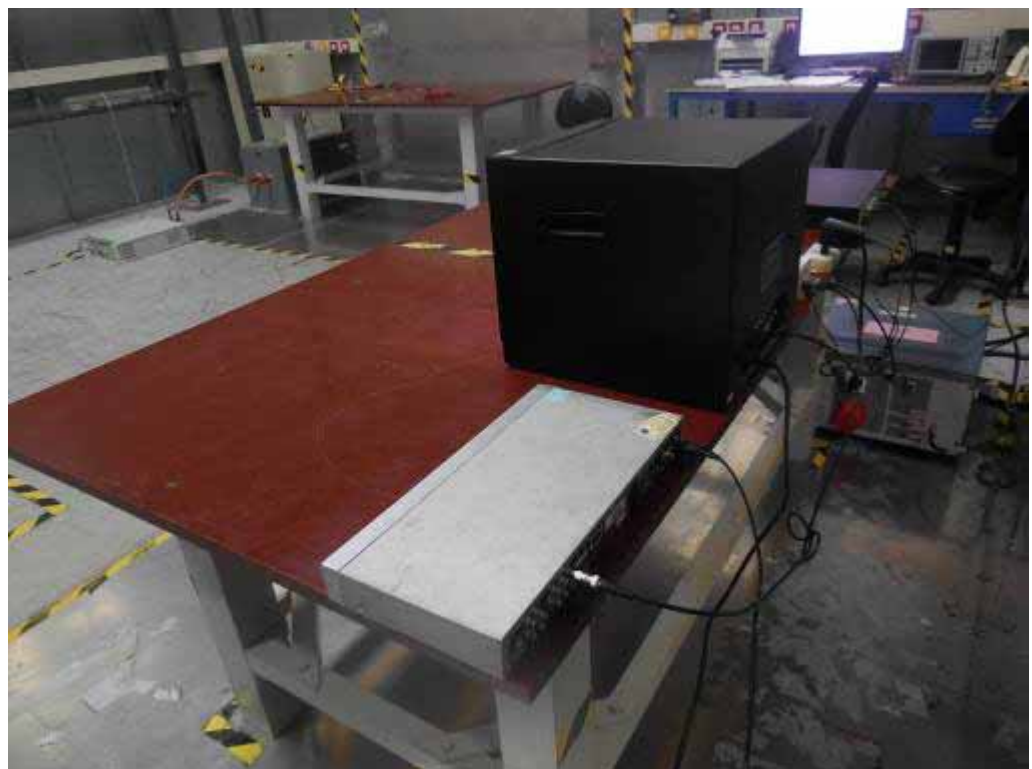
3.6. Test Photographs

ADS-24RD-12 1224G

Front View



Rear View





A12-3A-10

Front View



Rear View





4. Test of Radiated Emission

4.1. Test Limit

Radiated emissions were measured with a bandwidth according to the methods defines in ANSI C63.4-2009. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

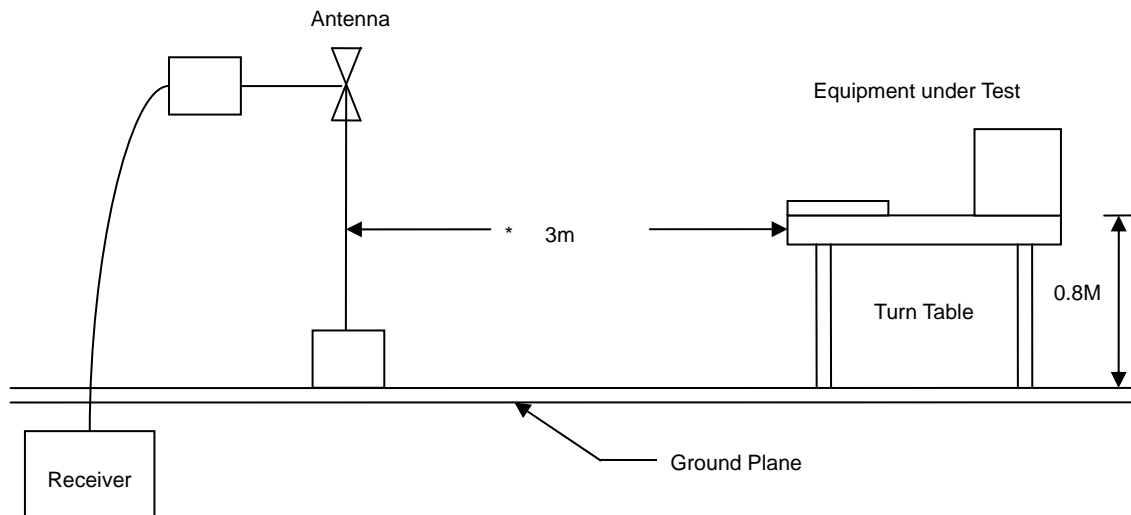
4.2. Test Procedures

- The EUT was placed on a Rota table top 0.8 meter above ground.
- The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

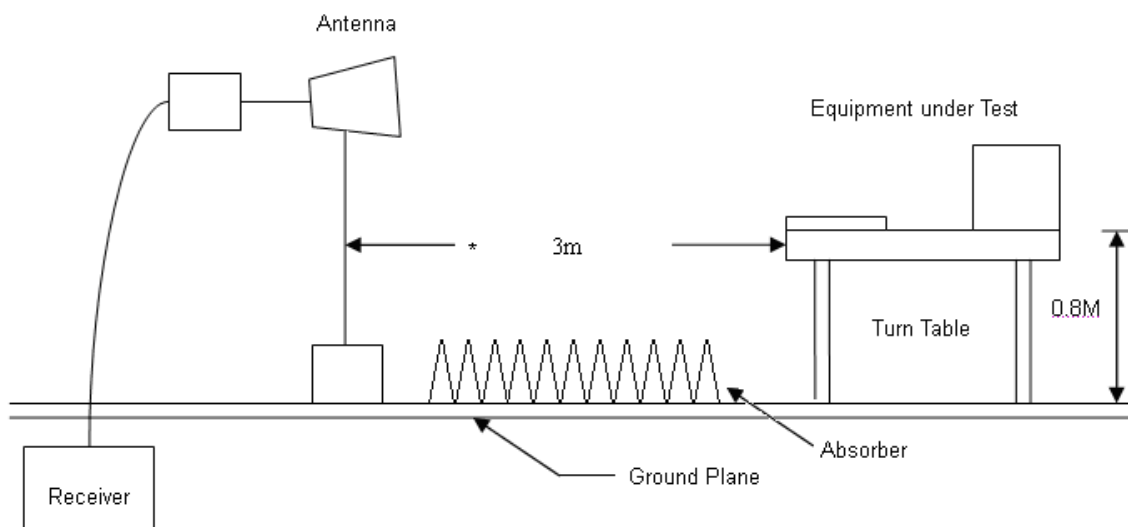


4.3. Typical test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup

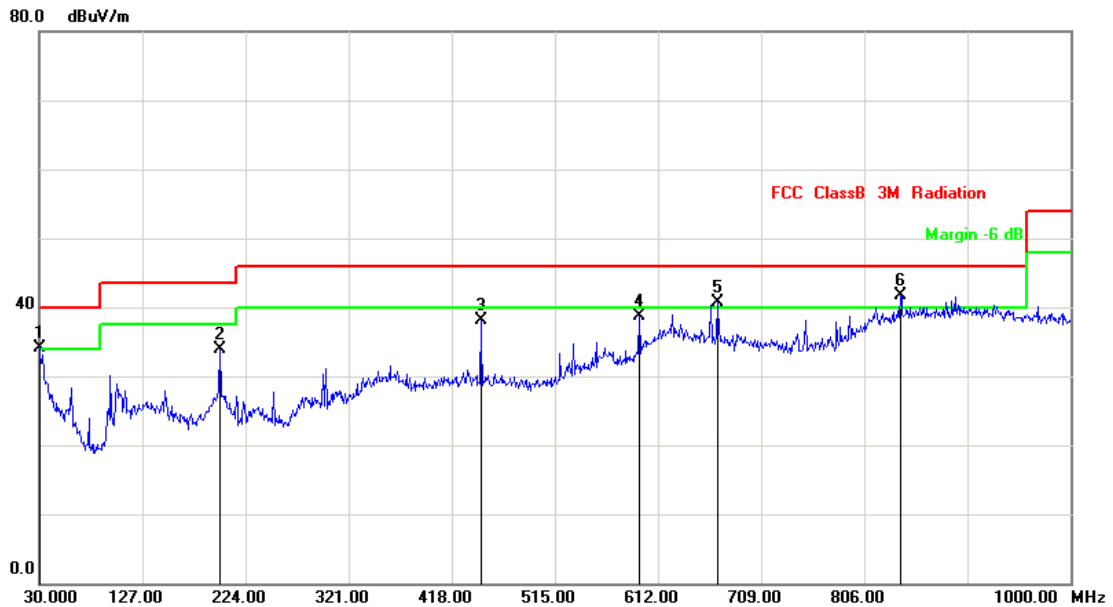


**4.4. Measurement equipment**

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI	101183	2013.03.10	2014.03.09
Preamplifier	Agilent	87405B	My39500554	2013.03.10	2014.03.09
Preamplifier	Agilent	8449B	3008A02342	2013.03.10	2014.03.09
Ultra Broadband Antenna	R&S	HL562	100363	2013.05.02	2014.05.01
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-618	2013.05.02	2014.05.01
Spectrum Analyzer	R&S	FSP40	100324	2013.03.10	2014.03.09
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2013.03.10	2014.03.09

**4.5. Test Result and Data (30MHz ~ 1000MHz)**

Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/13

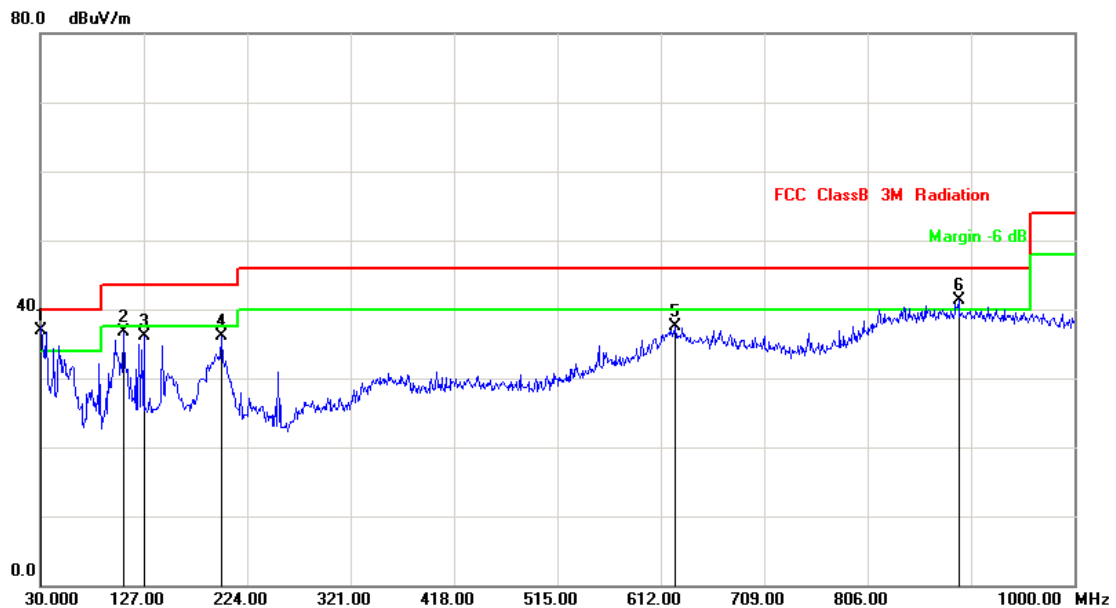


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	7.52	26.51	34.03	40.00	-5.97	QP	100	35
2	199.7500	0.00	33.84	33.84	43.50	-9.66	QP	300	45
3	445.1600	4.56	33.60	38.16	46.00	-7.84	QP	200	235
4	594.5399	8.87	29.87	38.74	46.00	-7.26	QP	200	76
5	668.2599	10.23	30.44	40.67	46.00	-5.33	QP	100	108
6	840.9199	13.47	28.32	41.79	46.00	-4.21	QP	400	51

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/13

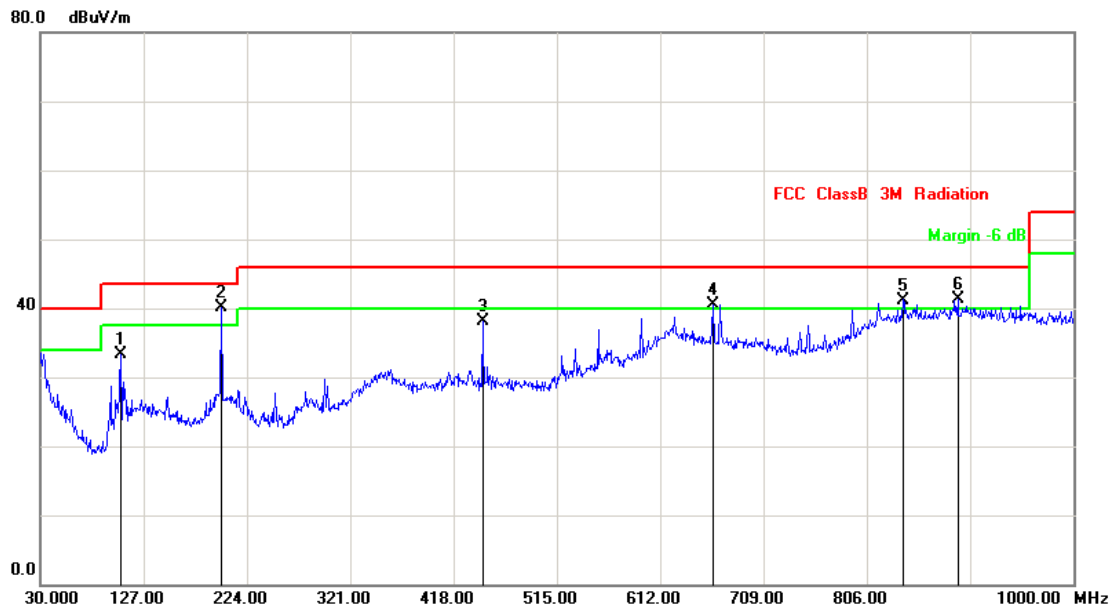


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9698	6.96	29.96	36.92	40.00	-3.08	QP	100	126
2	107.6000	-1.66	38.36	36.70	43.50	-6.80	QP	200	182
3	127.0000	0.18	35.94	36.12	43.50	-7.38	QP	157	360
4	199.7500	0.00	36.01	36.01	43.50	-7.49	QP	300	359
5	625.5800	11.28	26.16	37.44	46.00	-8.56	QP	200	0
6	891.3600	14.17	27.11	41.28	46.00	-4.72	QP	200	99

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/13

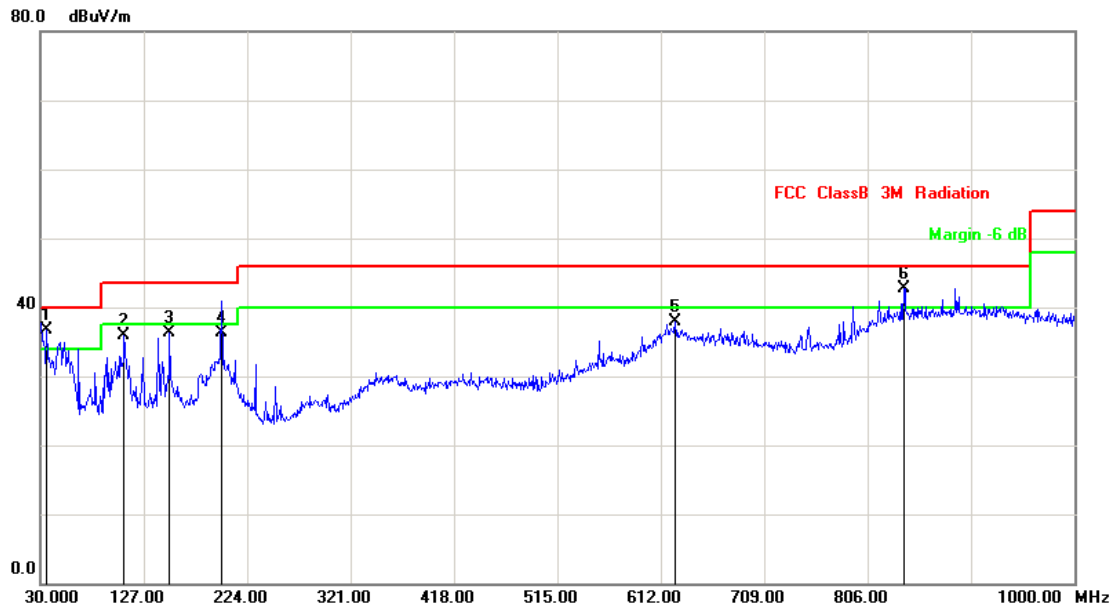


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	105.6599	-1.95	35.29	33.34	43.50	-10.16	QP	181	0
2	199.7500	0.00	40.13	40.13	43.50	-3.37	QP	400	196
3	445.1600	4.56	33.59	38.15	46.00	-7.85	QP	200	235
4	661.4699	10.30	30.28	40.58	46.00	-5.42	QP	100	92
5	839.9500	13.45	27.75	41.20	46.00	-4.80	QP	100	249
6	891.3600	14.17	27.16	41.33	46.00	-4.67	QP	300	33

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/13



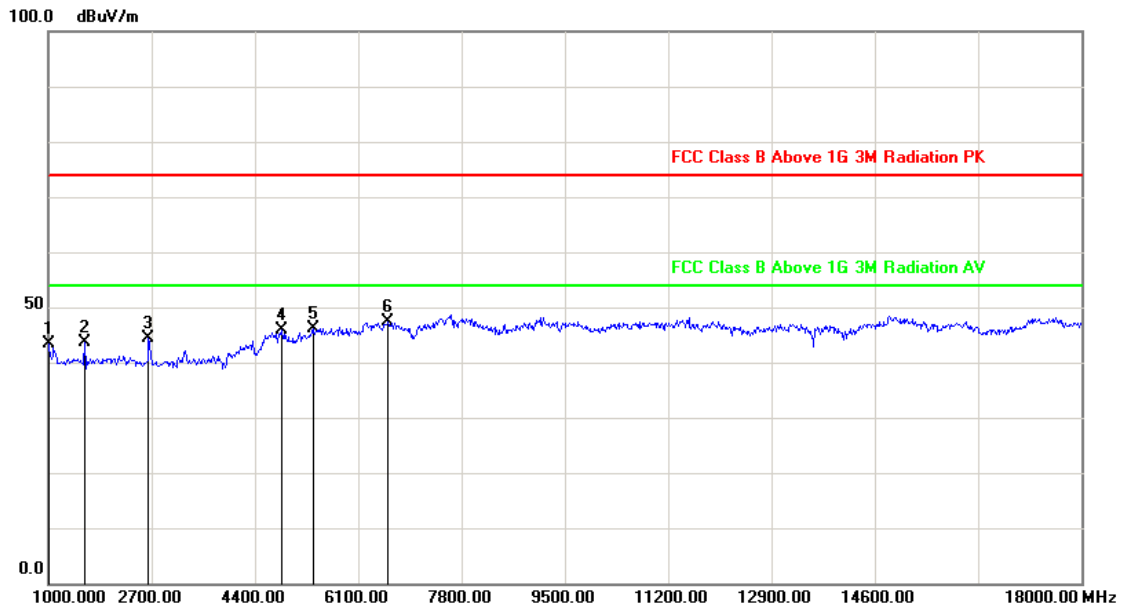
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	35.8200	4.16	32.63	36.79	40.00	-3.21	QP	103	0
2	108.5700	-1.52	37.46	35.94	43.50	-7.56	QP	300	160
3	151.2500	-0.76	37.16	36.40	43.50	-7.10	QP	203	360
4	200.0079	0.03	36.27	36.30	43.50	-7.20	QP	100	209
5	625.5800	11.28	26.65	37.93	46.00	-8.07	QP	300	226
6	839.9500	13.45	29.34	42.79	46.00	-3.21	QP	300	114

Note: Measurement Level = Reading Level + Correct Factor



4.6. Test Result and Data (1000MHz ~ 18000MHz)

Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25

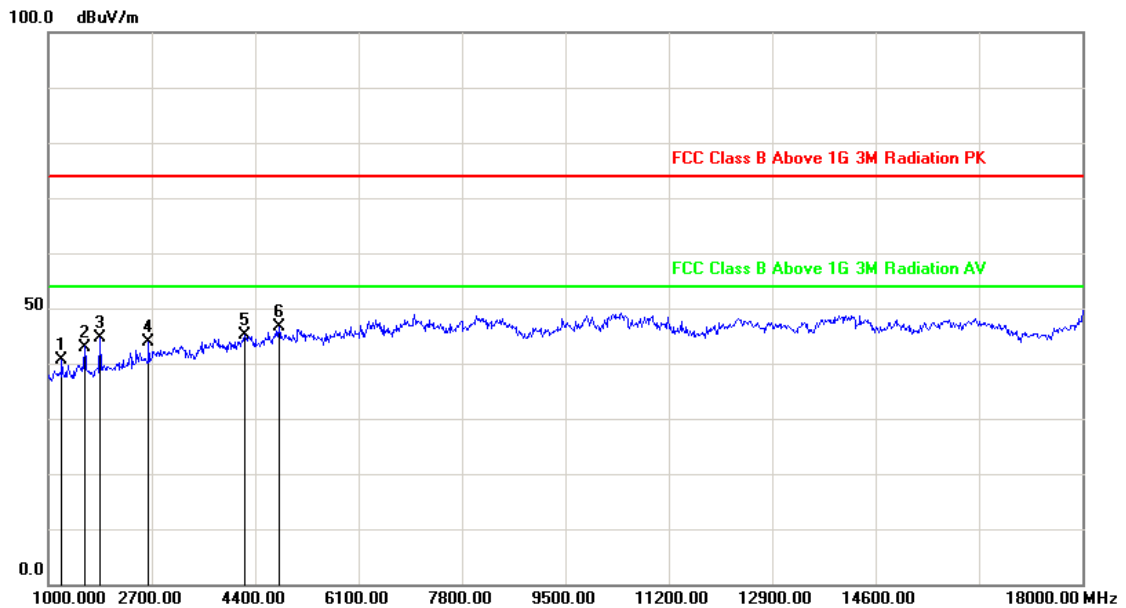


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1000.0000	-6.87	50.36	43.49	74.00	-30.51	peak	100	360
2	1595.000	-4.39	48.00	43.61	74.00	-30.39	peak	100	52
3	2649.000	-0.53	44.95	44.42	74.00	-29.58	peak	100	47
4	4842.000	6.46	39.52	45.98	74.00	-28.02	peak	100	25
5	5352.000	7.44	38.75	46.19	74.00	-27.81	peak	100	6
6	6593.000	10.58	36.92	47.50	74.00	-26.50	peak	100	162

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Normal Operation with ADS-24RD-12 1224G		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25

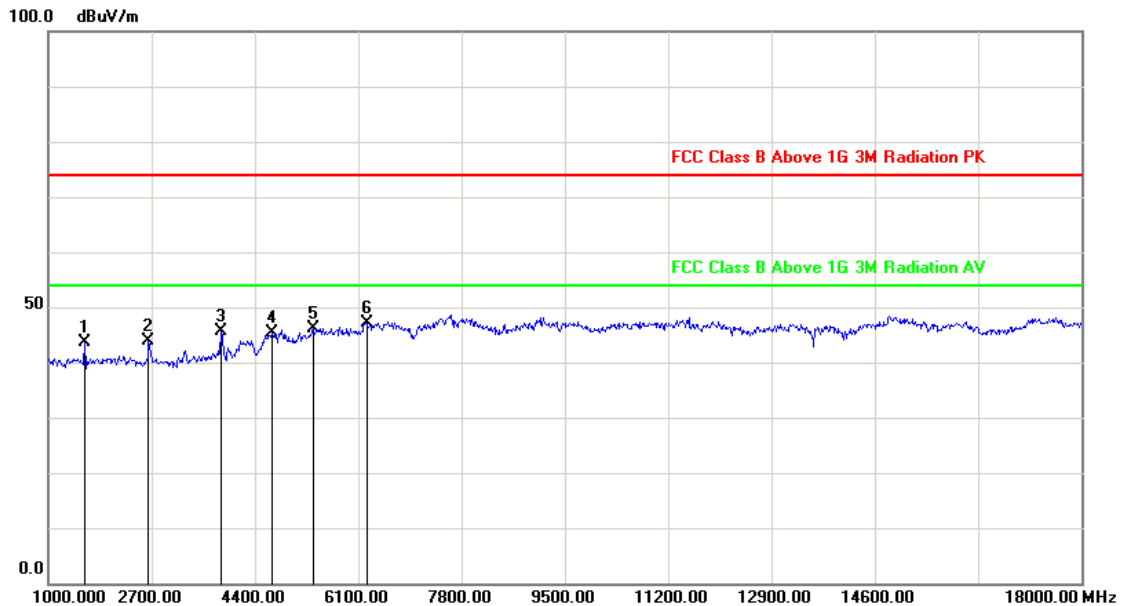


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1221.000	-5.95	46.47	40.52	74.00	-33.48	peak	100	2
2	1595.000	-4.39	47.39	43.00	74.00	-31.00	peak	100	314
3	1850.000	-3.33	47.85	44.52	74.00	-29.48	peak	100	26
4	2649.000	-0.53	44.48	43.95	74.00	-30.05	peak	100	36
5	4230.000	4.93	40.15	45.08	74.00	-28.92	peak	100	87
6	4791.000	6.33	40.41	46.74	74.00	-27.26	peak	100	162

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25

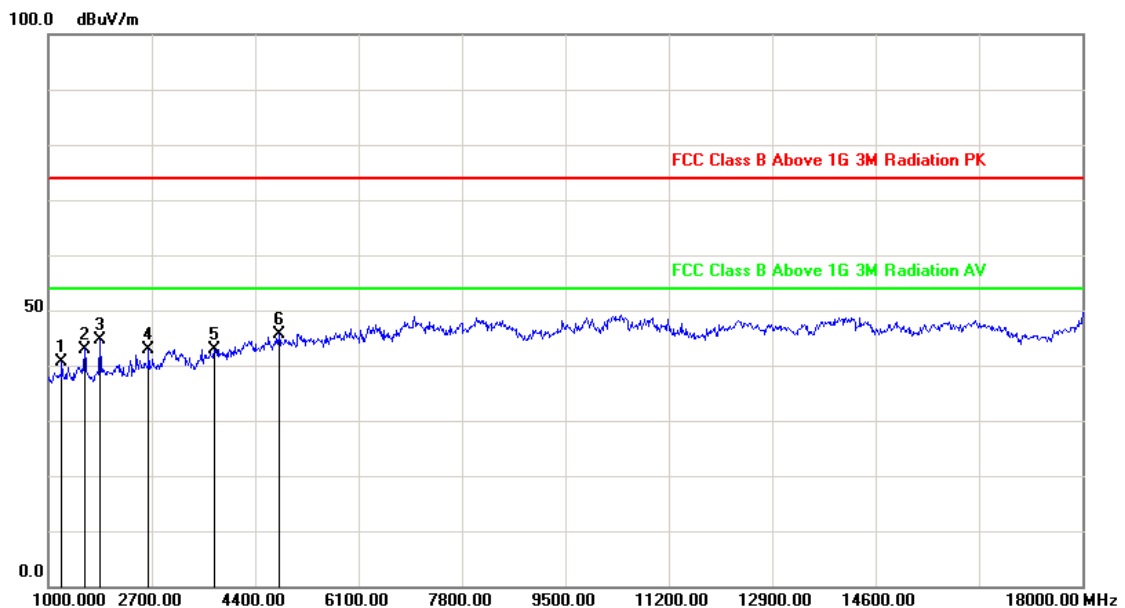


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1595.000	-4.39	48.00	43.61	74.00	-30.39	peak	100	87
2	2649.000	-0.53	44.45	43.92	74.00	-30.08	peak	100	226
3	3839.000	3.76	41.84	45.60	74.00	-28.40	peak	100	185
4	4689.000	6.08	39.25	45.33	74.00	-28.67	peak	100	0
5	5352.000	7.44	38.75	46.19	74.00	-27.81	peak	100	360
6	6236.000	9.34	37.81	47.15	74.00	-26.85	peak	100	15

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 2: Normal Operation with A12-3A-10		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	HDCVI CAMERA	Model No :	HAC-HF3101P
Temp :	26	Humidity :	60%
Pressure(mbar) :	1002	Date :	2014/01/25



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1221.000	-5.95	46.47	40.52	74.00	-33.48	peak	100	147
2	1595.000	-4.39	47.39	43.00	74.00	-31.00	peak	100	51
3	1850.000	-3.33	47.85	44.52	74.00	-29.48	peak	100	25
4	2649.000	-0.53	43.48	42.95	74.00	-31.05	peak	100	6
5	3720.000	3.32	39.65	42.97	74.00	-31.03	peak	100	0
6	4791.000	6.33	39.41	45.74	74.00	-28.26	peak	100	162

Note: Measurement Level = Reading Level + Correct Factor

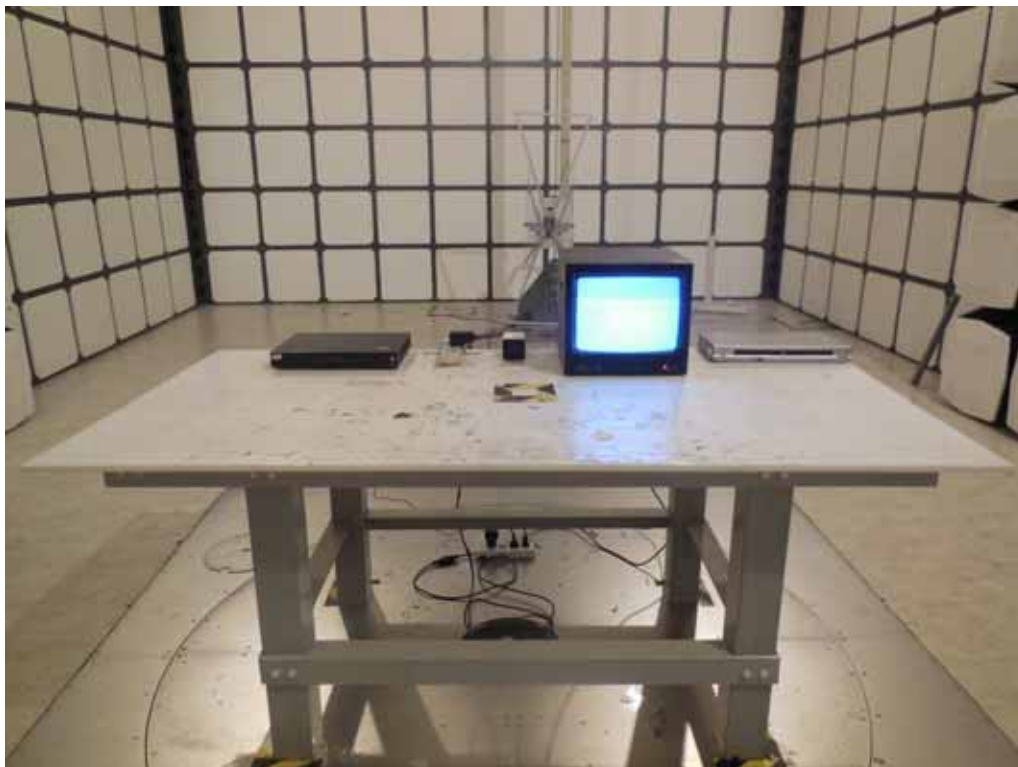
Test engineer: Karp



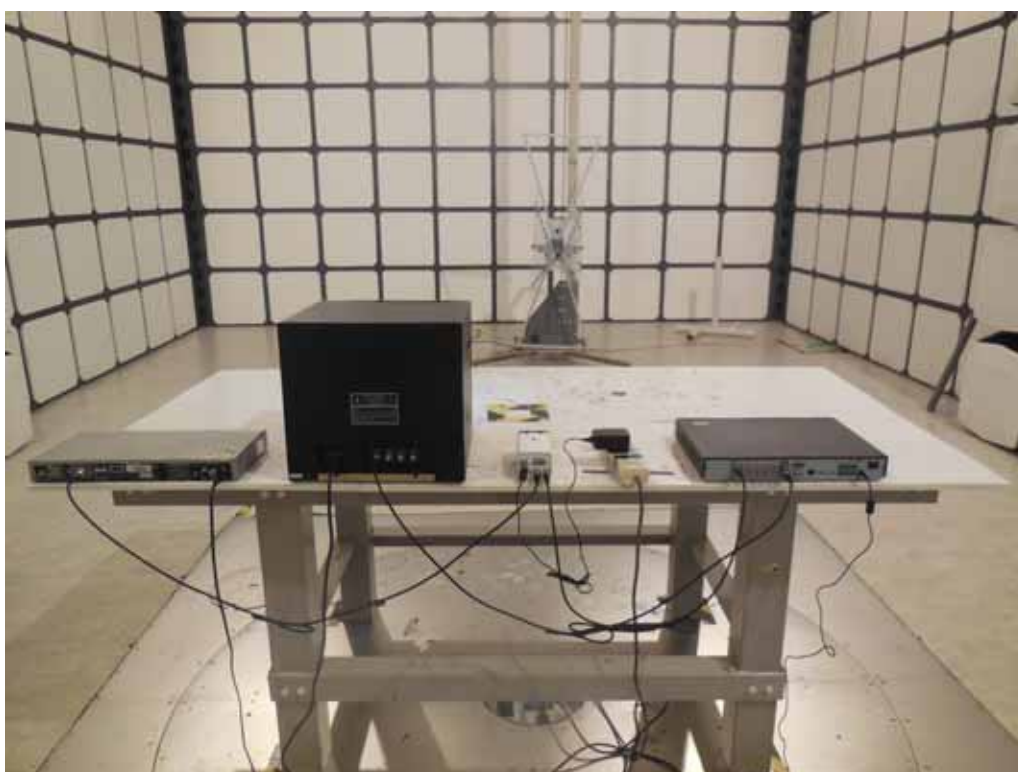
4.7. Test Photographs (30MHz ~ 1000MHz)

ADS-24RD-12 1224G

Front View



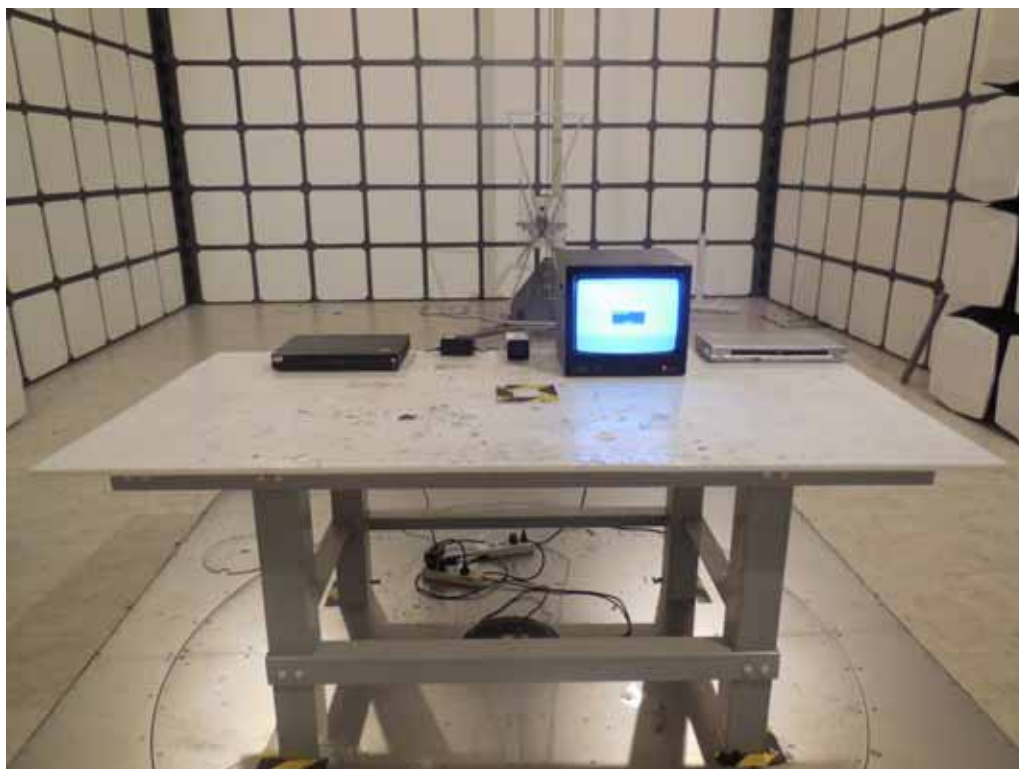
Rear View



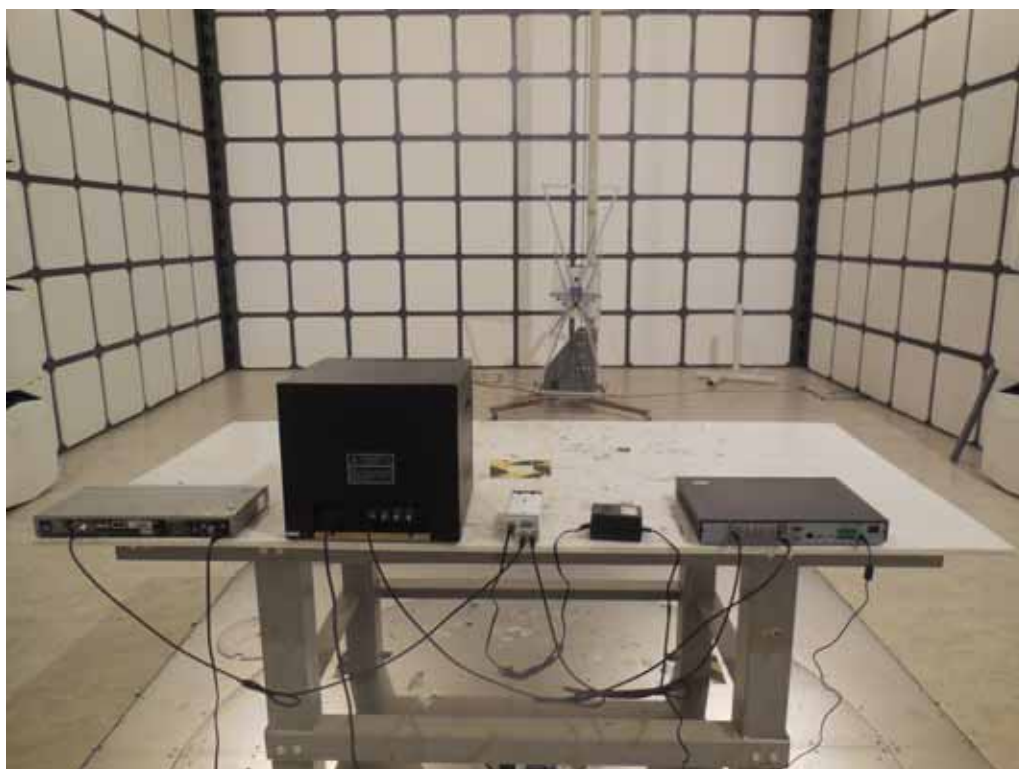


A12-3A-10

Front View



Rear View

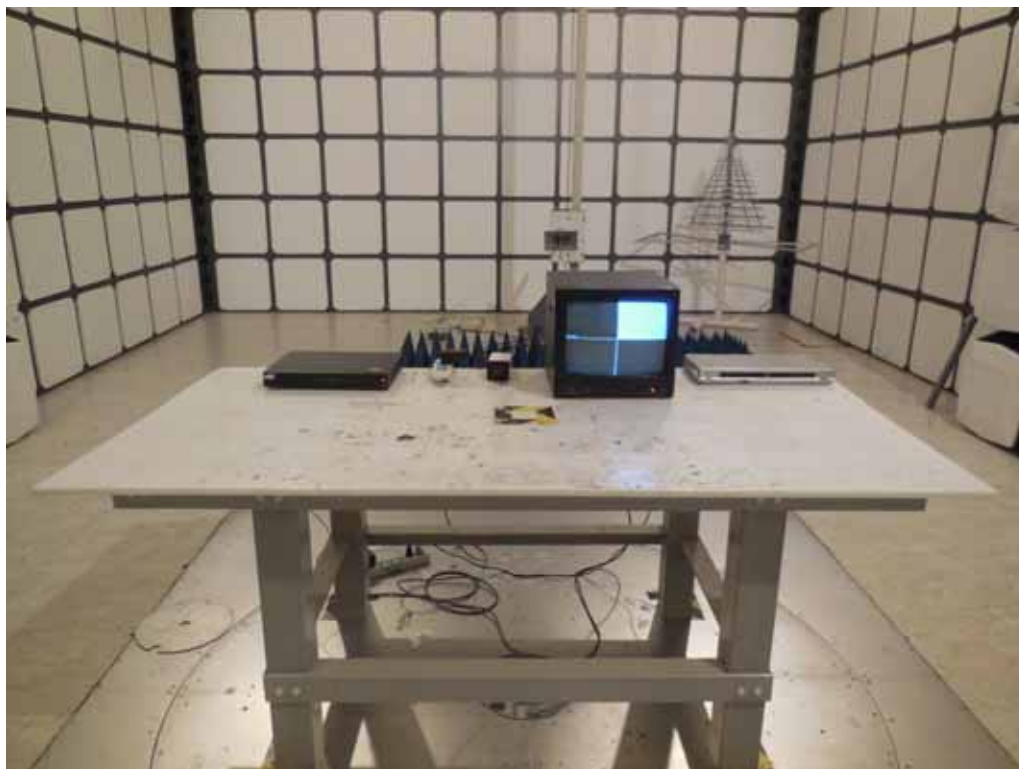




4.8. Test Photographs (1000MHz ~ 18000MHz)

ADS-24RD-12 1224G

Front View



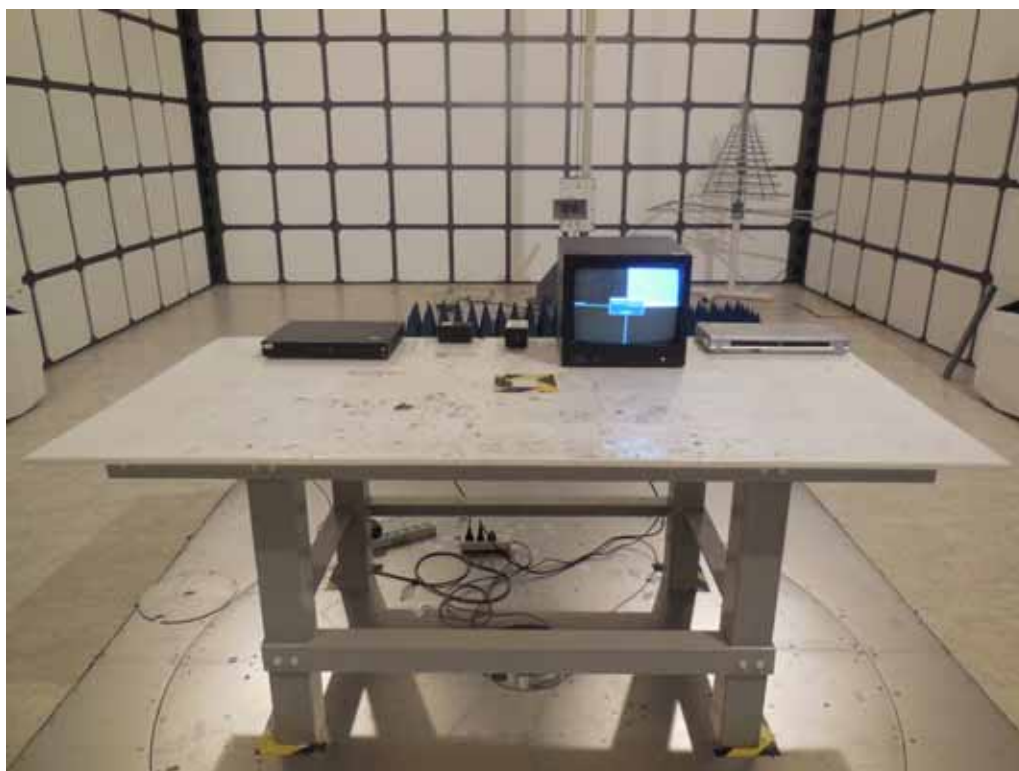
Rear View



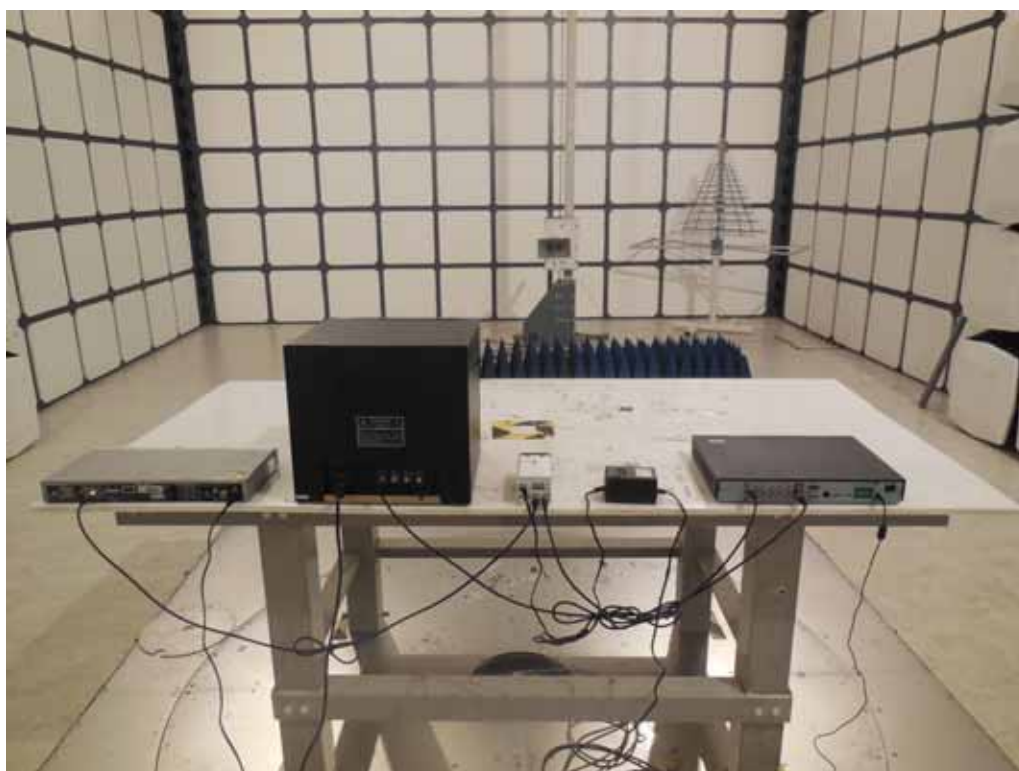


A12-3A-10

Front View



Rear View





FC



3) EUT Photo



4) EUT Photo

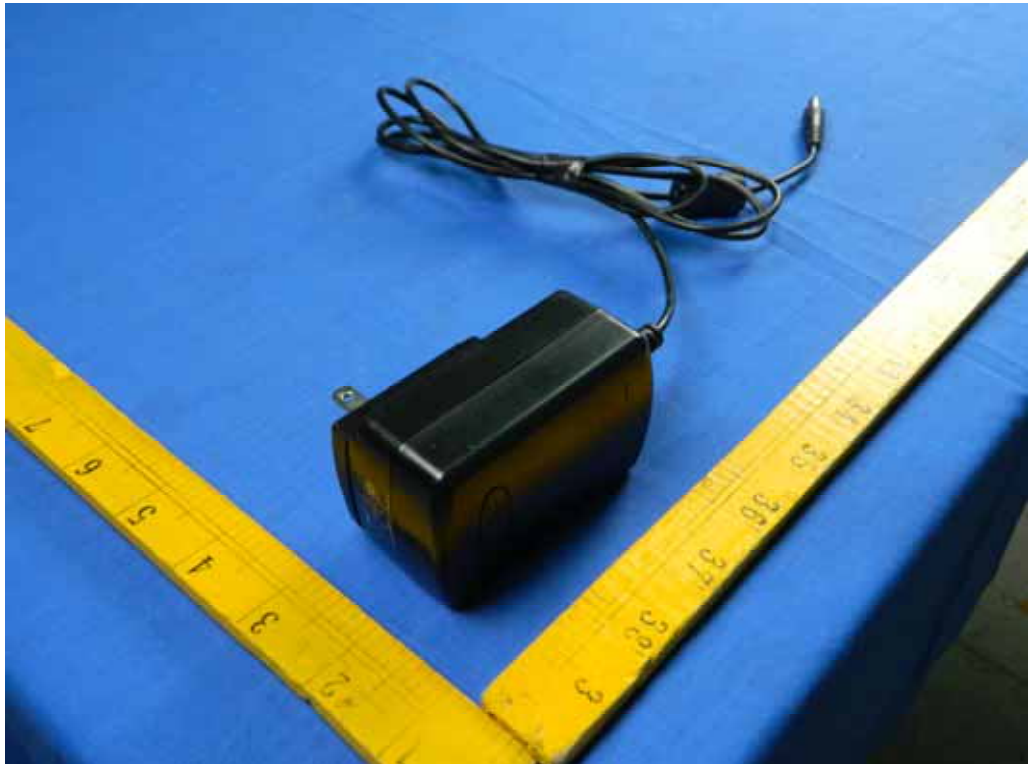




5) EUT Photo(ADS-24RD-12 1224G)



6) EUT Photo(ADS-24RD-12 1224G)





7) EUT Photo(ADS-24RD-12 1224G)



8) EUT Photo(ADS-24RD-12 1224G)





9) EUT Photo(A12-3A-10)



10) EUT Photo(A12-3A-10)





11) EUT Photo(A12-3A-10)

