



# FCC DOC TEST REPORT

## Declaration of Conformity

According to

**47 CFR, Part 2, Part 15, CISPR PUB. 22,  
ICES 003 Issue 6**

Applicant : Zhejiang Dahua Vision Technology Co., Ltd.

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Address : No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

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Equipment : NETWORK VIDEO RECORDER

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Model No. : DHI-NVR4108-8P-4KS2, DHI-NVR4116-8P-4KS2,  
NVR4108-8P-4KS2, NVR4116-8P-4KS2,  
DHI-NVR4108HS-8P-4KS2, DHI-NVR4116HS-8P-4KS2,  
NVR4108HS-8P-4KS2, NVR4116HS-8P-4KS2,  
NVR2108-8P-4KS2, DHI-NVR2108-8P-4KS2,  
NVR2108HS-8P-4KS2, DHI-NVR2108HS-8P-4KS2

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### I HEREBY CERTIFY THAT :

The sample was received on Oct 13, 2016 and the testing was carried out on Dec 27, 2016 at CerpPASS Technology Corp. 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.

Approved by:

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Ray Chou  
EMC/RF B.U. Assistant Manager



# FCC TEST REPORT

Issued by:

**Cerpass Technology Co.,Ltd**

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The test record, data evaluation & Equipment. Under Test configurations represented herein are true and accurate accounts of the measurements of the samples EMC characteristics under the conditions specified in this report.

Laboratory Accreditation:

☒ Cerpass Technology Corporation Test Laboratory

<b>NVLAP LAB Code:</b>	<b>200954-0</b>
<b>TAF LAB Code:</b>	<b>1439</b>



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### History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Report No	Version	Date	Description
SEFD1610023	Rev 01	Dec 28, 2016	Initial Issue



## 1. Summary of Test Procedure and Test Result

### 1.1. Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 – 2014 and the energy emitted by this equipment was passed Part 2, Part 15, CISPR PUB. 22. The energy emitted by this equipment was passed both Radiated and Conducted Emissions Class B limits.

Test Item	Normative References	Test Result	Remarks
Conducted Emission	ANSI C63.4-2014 FCC Part 15 Subpart B ICES 003 Issue 6	PASS	Meets Class B Limit Minimum passing margin(QP) is -4.09 dB at 18.6500 MHz
Radiated Emission	ANSI C63.4-2014 FCC Part 15 Subpart B ICES 003 Issue 6	PASS	Meets Class B Limit Minimum passing margin(QP) is -2.76 dB at 33.8800 MHz



## 2. Test Configuration of Equipment under Test

### 2.1. Manufacturer

Zhejiang Dahua Vision Technology Co., Ltd.

No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

### 2.2. Feature of Equipment under Test

<b>Product Name:</b>	NETWORK VIDEO RECORDER	
<b>Model Name:</b>	DHI-NVR4116-8P-4KS2, DHI-NVR4116HS-8P-4KS2	
<b>Series Model:</b>	DHI-NVR4108-8P-4KS2, NVR4108-8P-4KS2, NVR4116-8P-4KS2, DHI-NVR4108HS-8P-4KS2, NVR4108HS-8P-4KS2, NVR4116HS-8P-4KS2, NVR2108-8P-4KS2, DHI-NVR2108-8P-4KS2, NVR2108HS-8P-4KS2, DHI-NVR2108HS-8P-4KS2	
<b>Model Discrepancy:</b>	They are identical except the chassis, front panel.	
<b>Adapter:</b>	Model No.:	ADS-110DL-52-1 480096G
	INPUT:	100-240V~ 50/60Hz 1.5A max.
	OUTPUT:	48.0V, 2.0A

Note: Please refer to user manual.

### 2.3. Test Manner

#### Test Manner

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4-2014
- Turn on the power of all equipment.
- The complete test system included Notebook PC, HDD, USB Mouse, LCD Monitor, IP Camera, Earphone and EUT for EMI test.

#### The pre-test modes

- |        |   |
|--------|---|
| Mode 1 | Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2 |
| Mode 2 | Full System With VGA(1280*1024@75Hz)+HDMI (1280*1024@75Hz) Mode for DHI-NVR4116HS-8P-4KS2 |
| Mode 3 | Full System With VGA(1024*768@60Hz)+HDMI (1024*768@60Hz) Mode for DHI-NVR4116HS-8P-4KS2   |
| Mode 4 | Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116-8P-4KS2   |
| Mode 5 | Full System With VGA(1280*1024@75Hz)+HDMI (1280*1024@75Hz) Mode for DHI-NVR4116-8P-4KS2   |



Mode 6 Full System With VGA(1024\*768@60Hz)+HDMI (1024\*768@60Hz) Mode for DHI-NVR4116-8P-4KS2

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

Mode 1 Full System With VGA(1920\*1080@60Hz)+HDMI (1920\*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2

## 2.4. Description of Test System

No.	Device	Manufacturer	Model No.	Description
1	HDD	WD	WDBPCK5000ABK-01	N/A
2	Earphone	EDIFIER	N/A	N/A
3	USB Mouse	DAHUA	M16-601	N/A
4	LCD Monitor	Lenovo	L2364wA	Non-Shielded,1.8m (R33B65)
5	LCD Monitor	DELL	SE198WFPT	Non-Shielded,1.8m (R43346)
6	IP Camera	DAHUA	DH-IPC-HFW4431EN-S	N/A
7	Notebook PC	LENOVO	IDEAPAD Y510P	N/A

No.	Cable	Quantity	Description
A	VGA Cable	1	Shielded, 1.8m,with two ferrite core bonded
B	LAN Cable	1	Non-Shielded, 1.0m
C	USB Cable	1	Non-Shielded, 1.5m
D	Audio Cable	2	Non-Shielded, 1.8m
E	USB Cable	1	Shielded, 0.6m
F	HDMI Cable	1	Shielded, 1.8m,with two ferrite core bonded
G	LAN Cable	1	Non-Shielded, >3.0m
H	LAN Cable	7	Non-Shielded, 1.5m



## 2.5. General Information of Test

Test Site :	<b>Cerpass Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
FCC Registration Number :	TW1079, TW1061,390316, 228391, 641184
IC Registration Number :	4934B-1, 4934E-1, 4934E-2
VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
Frequency Range Investigated :	Conducted Emission Test: from 150 kHz to 30 MHz Radiated Emission Test: from 30 MHz to 18,000 MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 10 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

Test results and Measurement uncertainty without any relationship in the test report.





### 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 C63.4-2014 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:

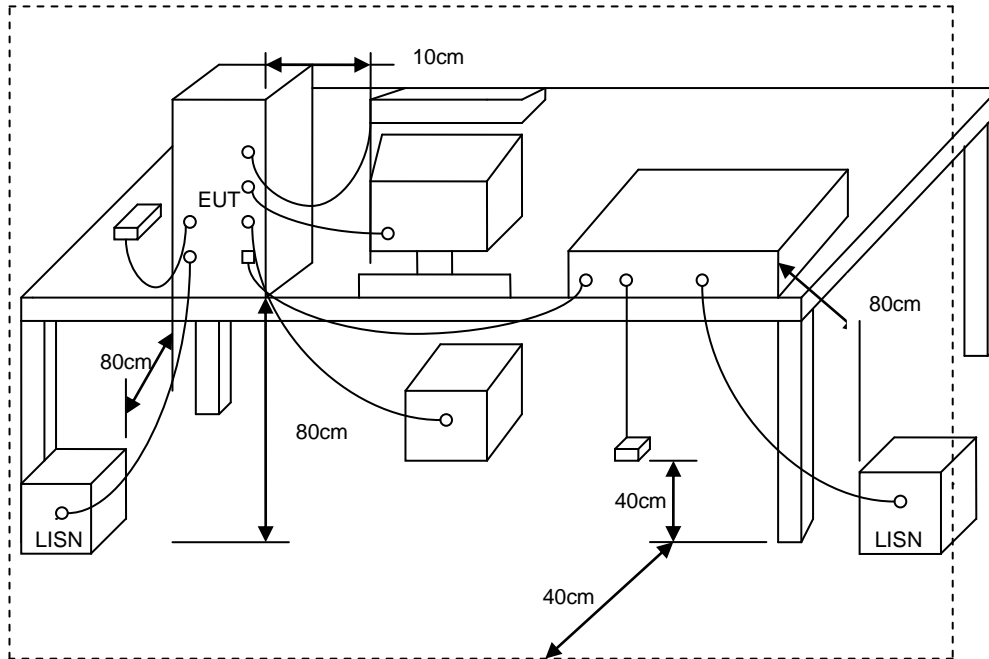
Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

#### 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



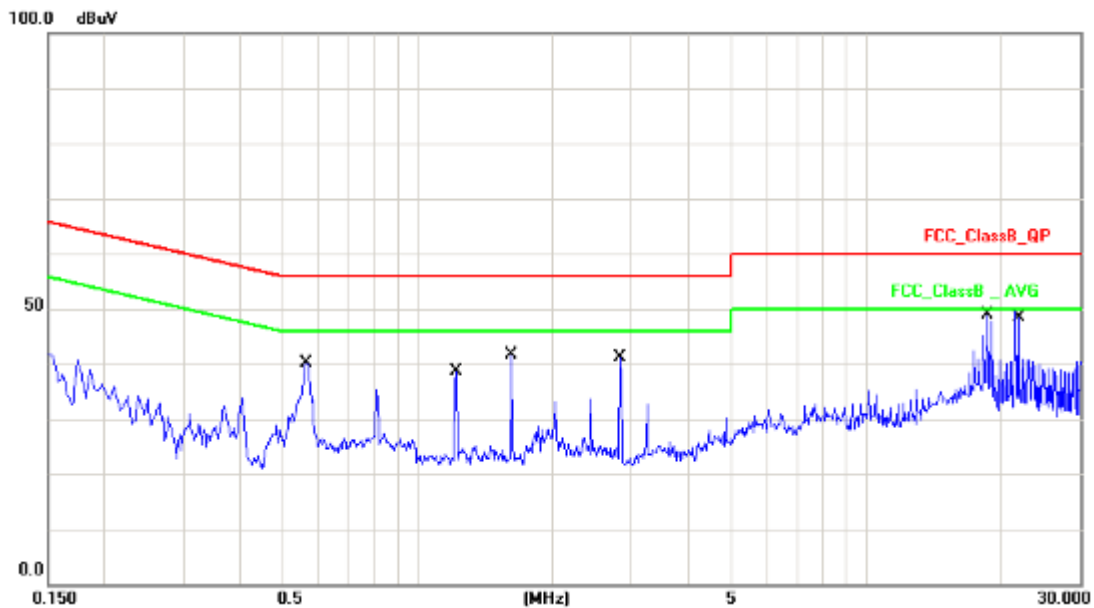
### 3.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2016.07.07	2017.07.06
AMN	R&S	ESH2-Z5	100182	2016.08.31	2017.08.30
Two-Line V-Network	R&S	ENV216	100325	/	/
ISN	FCC	FCC-TLISN-T2-02	20379	2016.03.26	2017.03.25
ISN	FCC	FCC-TLISN-T4-02	20380	2016.06.24	2017.06.24
ISN	FCC	FCC-TLISN-T8-02	20381	2016.03.26	2017.03.25
ISN	TESEQ	ISN ST08	30175	2016.03.26	2017.03.25
Current Probe	R&S	EZ-17	100303	2016.03.26	2017.03.25
Passive Voltage Probe	R&S	ESH2-Z3	100026	2016.03.26	2017.03.25
Pulse Limiter	R&S	ESH3-Z2	100529	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



### 3.5. Test Result and Data

Test Mode :	Mode 1: Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2		
AC Power :	AC 120V/60Hz	Phase :	LINE
Equipment :	NETWORK VIDEO RECORDER	Model No :	DHI-NVR4116HS-8P-4KS2
Temperature :	22℃	Humidity :	53%
Pressure(mbar) :	1002	Date :	2016/12/27



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5660	10.15	26.25	36.40	56.00	-19.60	QP
2	0.5660	10.15	25.32	35.47	46.00	-10.53	AVG
3	1.2180	10.18	27.50	37.68	56.00	-18.32	QP
4	1.2180	10.18	27.49	37.67	46.00	-8.33	AVG
5	1.6220	10.18	31.44	41.62	56.00	-14.38	QP
6	1.6220	10.18	31.34	41.52	46.00	-4.48	AVG
7	2.8380	10.20	32.46	42.66	56.00	-13.34	QP
8	2.8380	10.20	31.08	41.28	46.00	-4.72	AVG
9	18.6500	10.47	34.44	44.91	60.00	-15.09	QP
10	18.6500	10.47	34.85	45.32	50.00	-4.68	AVG
11	21.8940	10.40	42.47	52.87	60.00	-7.13	QP
12	21.8940	10.40	35.11	45.51	50.00	-4.49	AVG

Note: Measurement Level = Reading Level + Correct Factor



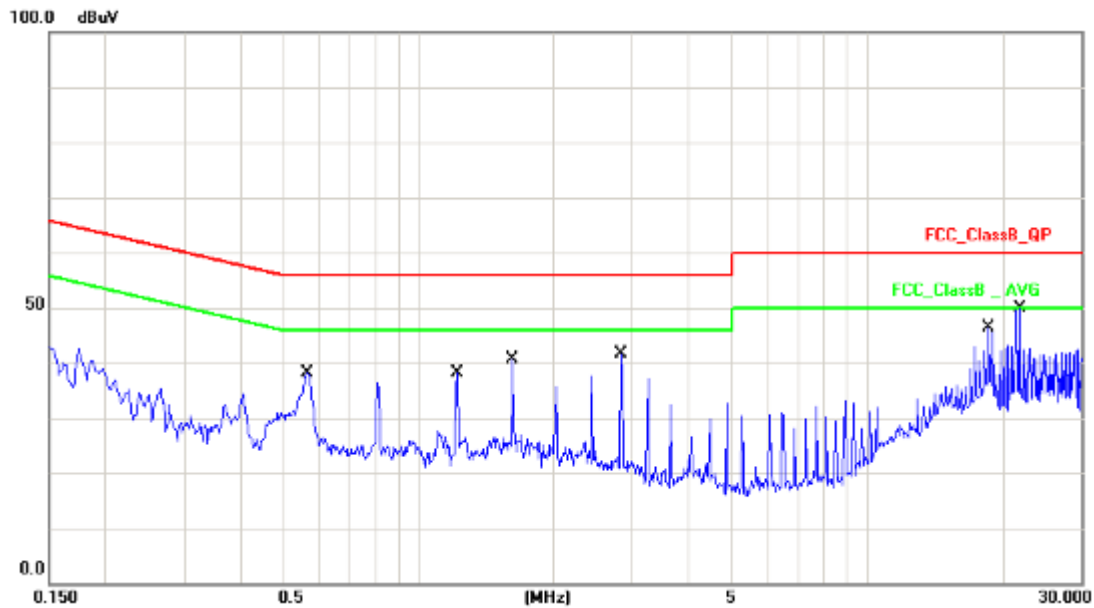
Test Mode : Mode 1: Full System With VGA(1920\*1080@60Hz)+HDMI  
(1920\*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2

AC Power : AC 120V/60Hz Phase : NEUTRAL

Equipment : NETWORK VIDEO RECORDER Model No : DHI-NVR4116HS-8P-4KS2

Temperature : 22°C Humidity : 53%

Pressure(mbar) : 1002 Date : 2016/12/27



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.5660	10.15	26.47	36.62	56.00	-19.38	QP
2	0.5660	10.15	25.50	35.65	46.00	-10.35	AVG
3	1.2180	10.18	27.76	37.94	56.00	-18.06	QP
4	1.2180	10.18	27.34	37.52	46.00	-8.48	AVG
5	1.6220	10.18	31.75	41.93	56.00	-14.07	QP
6	1.6220	10.18	29.44	39.62	46.00	-6.38	AVG
7	2.8380	10.20	33.47	43.67	56.00	-12.33	QP
8	2.8380	10.20	31.00	41.20	46.00	-4.80	AVG
9	18.6500	10.47	45.44	55.91	60.00	-4.09	QP
10	18.6500	10.47	35.04	45.51	50.00	-4.49	AVG
11	21.8940	10.40	43.10	53.50	60.00	-6.50	QP
12	21.8940	10.40	33.88	44.28	50.00	-5.72	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Dian



### 3.6. Test Photographs

Front View



Rear View





## 4. Test of Radiated Emission

### 4.1. Test Limit

#### Below 1GHz (for digital device)

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)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

#### Limit tables for non-digital device:

##### Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

##### Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

#### Above 1GHz(for all device)

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 1000	49.5	69.5	54	74

**NOTE:** (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) The measurement above 1GHz is at close-in distances 3m, and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation:  $L2 = L1 (d1/d2)$ , where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:



Frequency (MHZ)	Class A (dBuV/m) (At 3m)	
	Average	Peak
Above 1000	60	80

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower

## 4.2. Test Procedures

### *Procedure of Preliminary Test*

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 15 cm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning



the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

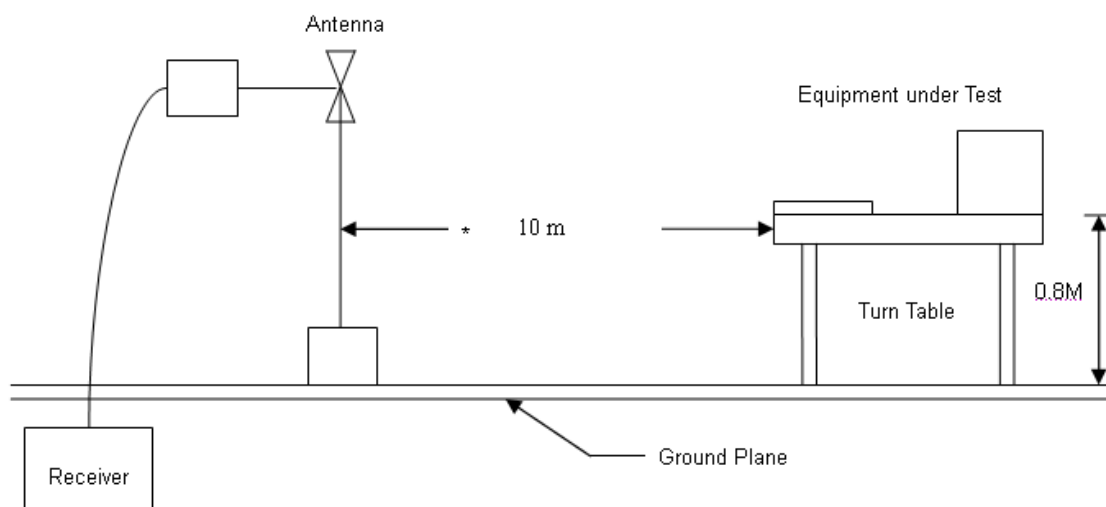
- Set the spectrum analyzer/ Receiver in the following setting as:  
Below 1GHz:  
RBW=120KHz / VBW=300KHz / Sweep=AUTO  
Above 1GHz:  
Peak: RBW=1MHz, VBW=3MHz / Sweep=AUTO  
Average: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

### ***Procedure of Final Test***

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

### **4.3. Typical test Setup**

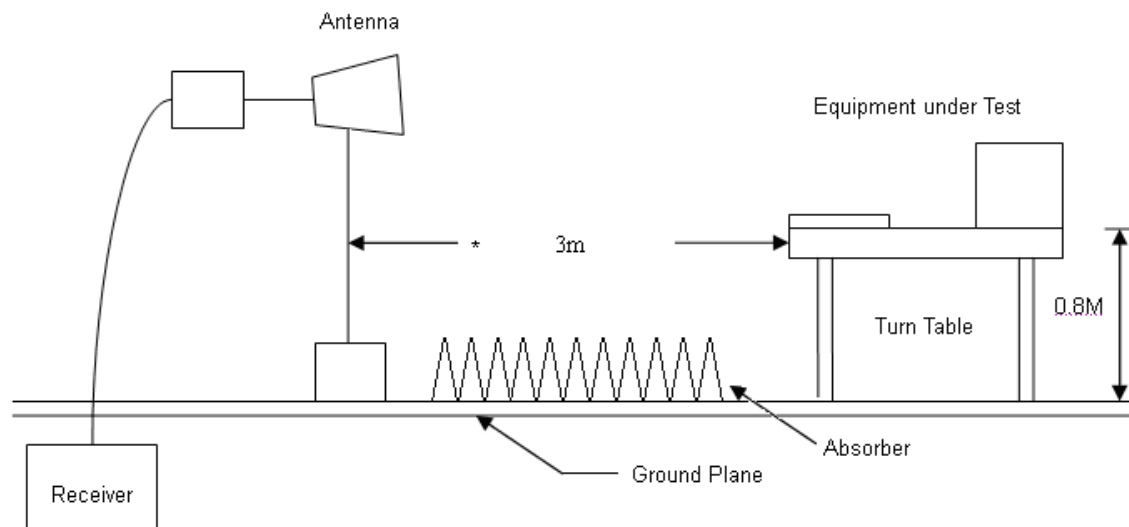
#### **Below 1GHz Test Setup**







Above 1GHz Test Setup



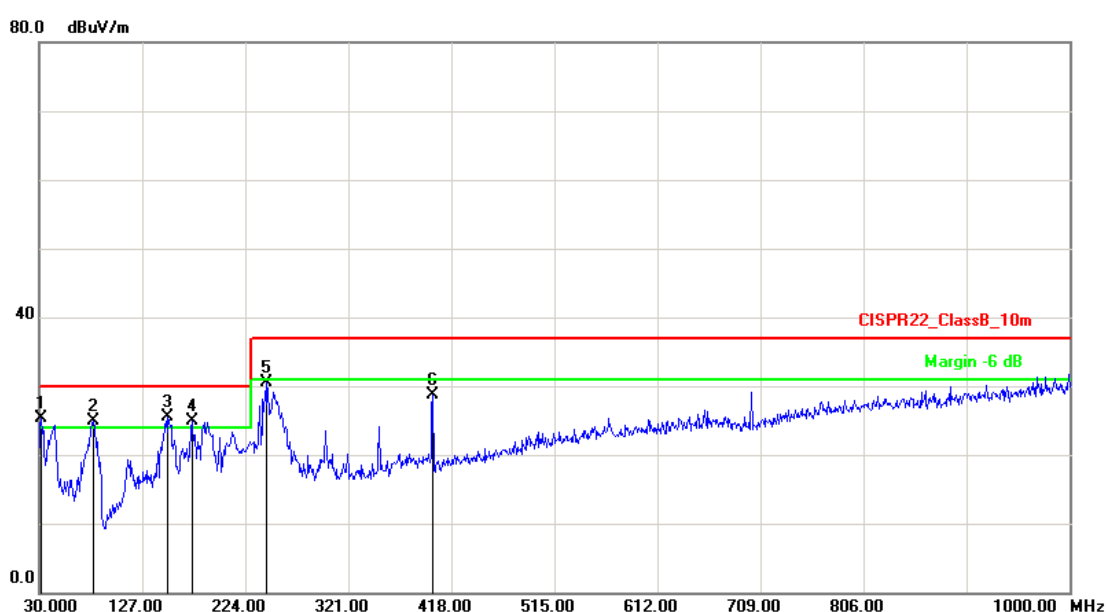
**4.4. Measurement equipment**

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI7	100968	2016.07.21	2017.07.20
Preamplifier	Agilent	87405B	My39500554	2016.03.26	2017.03.25
Preamplifier	Agilent	8449B	3008A02342	2016.03.26	2017.03.25
Bilog Antenna	Sunol Science	JB1	A072414-1	2016.04.16	2017.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-618	2016.04.16	2017.04.15
Spectrum Analyzer	R&S	FSP40	100324	2016.08.02	2017.08.01
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2016.03.29	2017.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



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

Test Mode :	Mode 1: Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	NETWORK VIDEO RECORDER	Model No :	DHI-NVR4116HS-8P-4KS2
Temp :	23°C	Humidity :	53%
Pressure(mbar) :	1002	Date :	2016/12/23

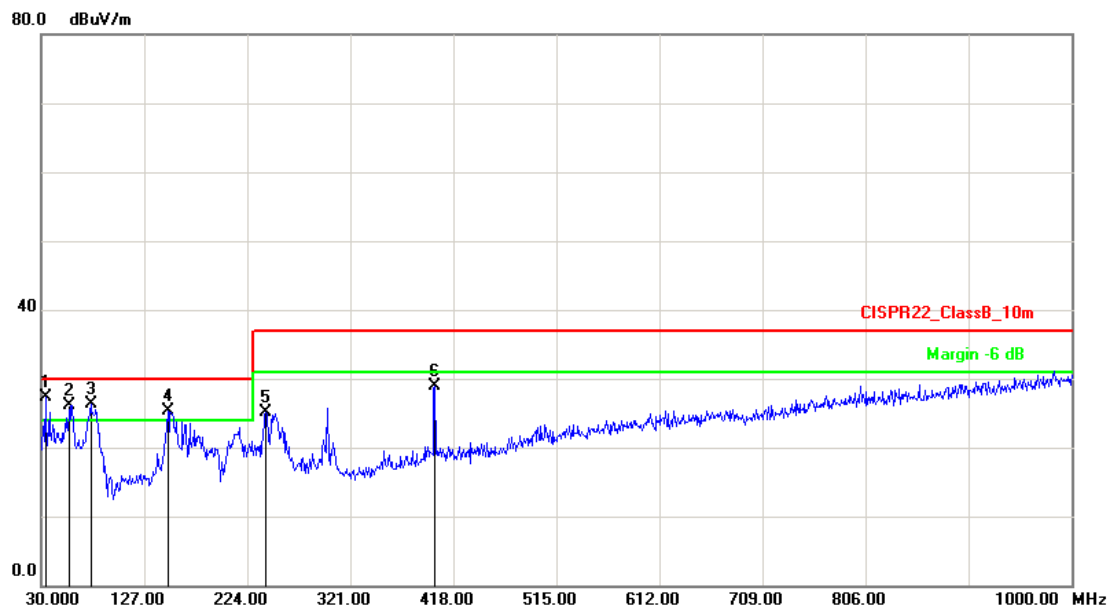


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	31.9400	-4.66	29.90	25.24	30.00	-4.76	QP	400	0
2	81.4099	-16.25	41.25	25.00	30.00	-5.00	QP	100	0
3	151.2500	-10.67	36.08	25.41	30.00	-4.59	QP	400	51
4	173.5600	-11.28	36.10	24.82	30.00	-5.18	QP	100	218
5	244.3700	-10.67	41.17	30.50	37.00	-6.50	QP	400	116
6	400.5400	-5.26	34.03	28.77	37.00	-8.23	QP	400	329

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	NETWORK VIDEO RECORDER	Model No :	DHI-NVR4116HS-8P-4KS2
Temp :	23°C	Humidity :	53%
Pressure(mbar) :	1002	Date :	2016/12/23

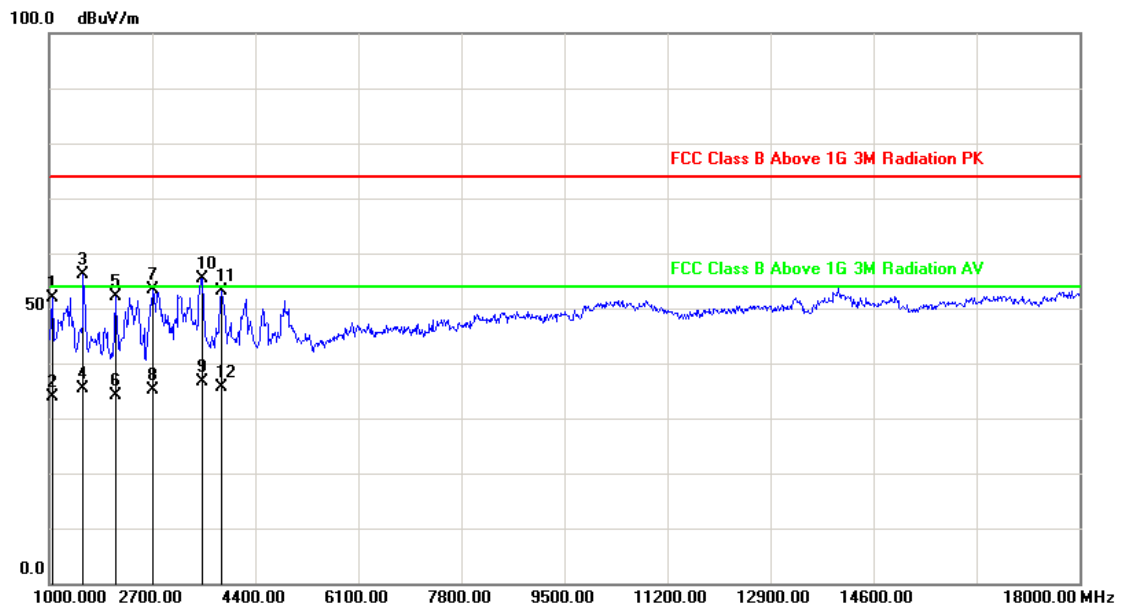


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	33.8800	-6.06	33.30	27.24	30.00	-2.76	QP	400	0
2	57.1599	-16.55	42.62	26.07	30.00	-3.93	QP	400	187
3	76.5600	-16.06	42.46	26.40	30.00	-3.60	QP	100	0
4	149.3100	-10.62	35.84	25.22	30.00	-4.78	QP	100	329
5	241.4600	-10.79	35.93	25.14	37.00	-11.86	QP	100	84
6	400.5400	-5.26	34.25	28.99	37.00	-8.01	QP	100	116

Note: Measurement Level = Reading Level + Correct Factor

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

Test Mode :	Mode 1: Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Horizontal
Equipment :	NETWORK VIDEO RECORDER	Model No :	DHI-NVR4116HS-8P-4KS2
Temp :	23°C	Humidity :	53%
Pressure(mbar) :	1002	Date :	2016/12/23

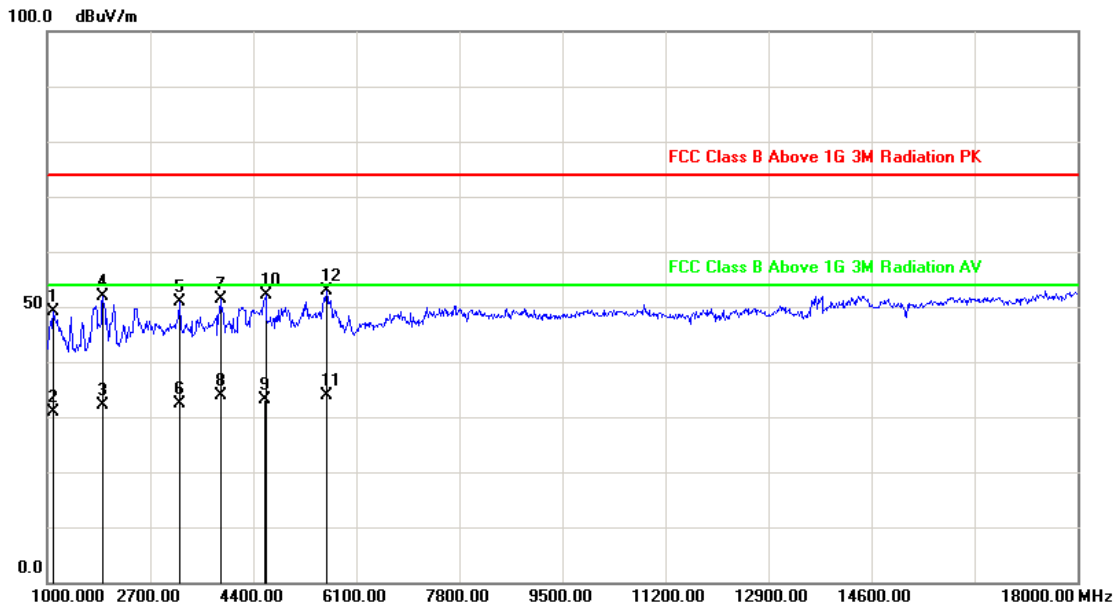


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1051.000	-17.13	69.08	51.95	74.00	-22.05	peak	200	215
2	1052.000	-17.13	51.06	33.93	54.00	-20.07	AVG	200	215
3	1561.000	-14.67	70.68	56.01	74.00	-17.99	peak	100	45
4	1562.000	-14.67	50.16	35.49	54.00	-18.51	AVG	100	45
5	2088.000	-11.78	63.96	52.18	74.00	-21.82	peak	100	360
6	2090.000	-11.77	45.82	34.05	54.00	-19.95	AVG	100	360
7	2700.000	-9.37	62.83	53.46	74.00	-20.54	peak	200	297
8	2701.000	-9.37	44.56	35.19	54.00	-18.81	AVG	200	297
9	3530.000	-6.25	42.77	36.52	54.00	-17.48	AVG	200	118
10	3533.000	-6.24	61.59	55.35	74.00	-18.65	peak	200	118
11	3839.000	-4.92	58.00	53.08	74.00	-20.92	peak	200	0
12	3841.000	-4.91	40.53	35.62	54.00	-18.38	AVG	200	0

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full System With VGA(1920*1080@60Hz)+HDMI (1920*1080@60Hz) Mode for DHI-NVR4116HS-8P-4KS2		
AC Power :	AC 120V/60Hz	Ant. Polarization:	Vertical
Equipment :	NETWORK VIDEO RECORDER	Model No :	DHI-NVR4116HS-8P-4KS2
Temp :	23°C	Humidity :	53%
Pressure(mbar) :	1002	Date :	2016/12/23



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1102.000	-16.89	66.03	49.14	74.00	-24.86	peak	100	263
2	1104.000	-16.88	47.81	30.93	54.00	-23.07	AVG	100	91
3	1916.000	-12.65	44.90	32.25	54.00	-21.75	AVG	200	157
4	1918.000	-12.64	64.62	51.98	74.00	-22.02	peak	200	157
5	3176.000	-7.75	58.62	50.87	74.00	-23.13	peak	100	0
6	3179.000	-7.74	40.22	32.48	54.00	-21.52	AVG	100	163
7	3856.000	-4.85	56.29	51.44	74.00	-22.56	peak	200	241
8	3857.000	-4.84	38.79	33.95	54.00	-20.05	AVG	200	0
9	4603.000	-4.01	37.19	33.18	54.00	-20.82	AVG	200	62
10	4604.000	-4.01	56.02	52.01	74.00	-21.99	peak	200	19
11	5605.000	-2.61	36.50	33.89	54.00	-20.11	AVG	100	118
12	5607.000	-2.61	55.43	52.82	74.00	-21.18	peak	100	5

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Dian

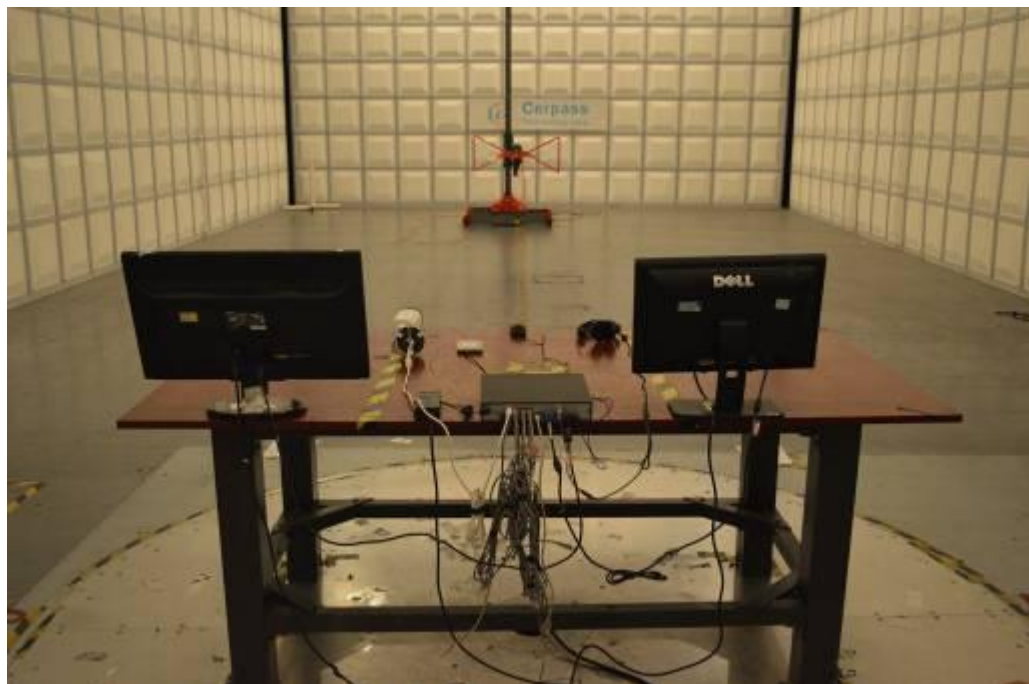


#### 4.7. Test Photographs (30MHz ~ 1000MHz)

Front View



Rear View

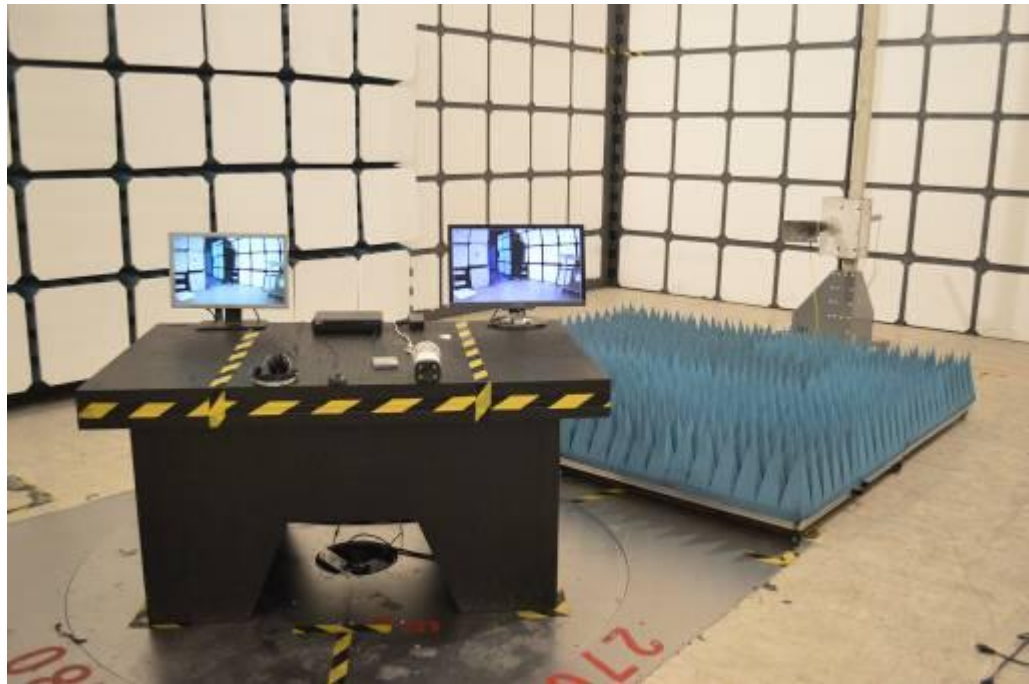




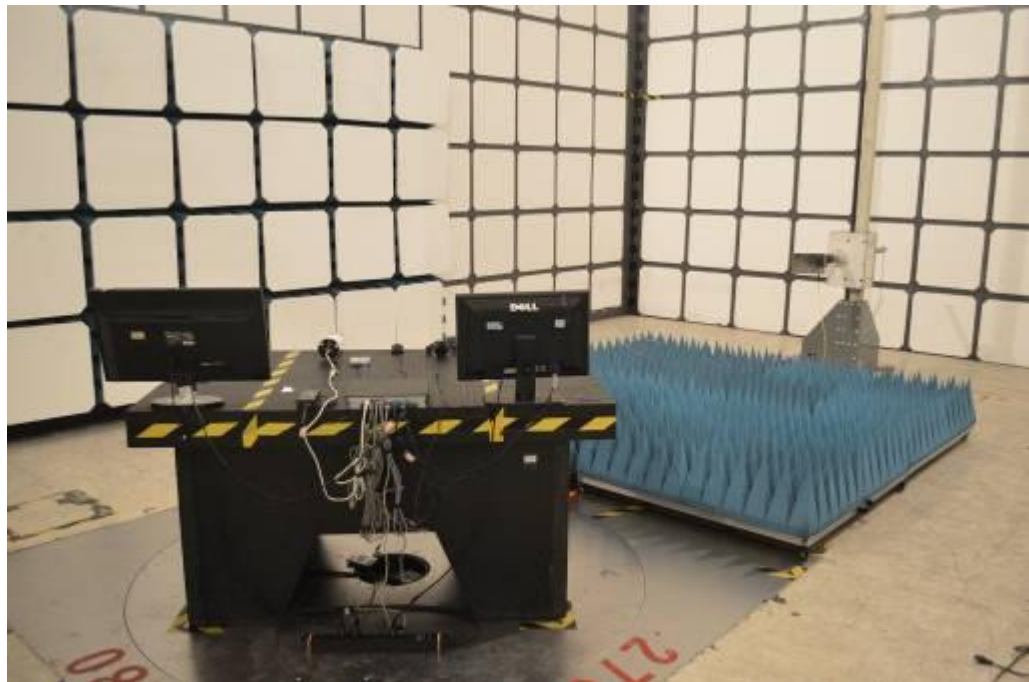


#### 4.8. Test Photographs (1000MHz ~ 18000MHz)

Front View



Rear View







## 5. Photographs of EUT

### 1) EUT Photo(DHI-NVR4116HS-8P-4KS2)



### 2) EUT Photo





3) EUT Photo



4) EUT Photo





5) EUT Photo



6) EUT Photo





7) EUT Photo



8) EUT Photo(DHI-NVR4116-8P-4KS2)





9) EUT Photo



10) EUT Photo







11) EUT Photo



12) EUT Photo





13) EUT Photo



14) EUT Photo





15) EUT Photo(Adapter)



16) EUT Photo







17) EUT Photo



18) EUT Photo





19) EUT Photo

