



VCCI Test Report

Issued date: Nov. 24, 2016

Project No.: 16Q102101

Product : Network Camera

Model : FD816CA-HF2

Applicant : VIVOTEK INC.

Address : 6F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235,
Taiwan, R.O.C.

Report No: WD-EV-R-160167-00

According to

V-3/2015.04, Class B

V-4/2012.04

Technical Engineer : Evan Cheng / Evan Cheng

Authorized Signatory : Ken Huang / Ken Huang



Wendell Industrial Co., Ltd
Wendell Electronic Test Laboratory

Add: 6F/6F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan R.O.C.



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History of this test report

Report No.	Issue date	Description
WD-EV-R-160167-00	Nov. 24, 2016	Initial Issue

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



History of supplementary report

Report No.	Issue date	Description
WD-EV-R-160167-00	Nov. 24, 2016	Original report

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



1 Certification

Product: Network Camera
Brand Name: VIVOTEK
Model No: FD816CA-HF2
Applicant: VIVOTEK INC.
Tested: Oct. 28 ~ Nov. 01, 2016
Standard: V-3/2015.04, Class B
V-4/2012.04

The above equipment (Model: FD816CA-HF2) has been tested by **Wendell Electrical Test Laboratory**, and found compliance with the requirement of the above standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.



1.1 Summary of Test Result

The EUT has been tested according to the following specifications:

Emission				
Standard	Test Item	Limit	Result	Remark
V-3	Conducted disturbance at mains terminals	-	N/A	Without AC power port of the EUT
	Conducted disturbance at telecommunication ports test	Class B	Pass	Meets the requirements
	Radiated disturbance	Class B	Pass	Meets the requirements

Note: Test record contained in the referenced test report relate only to the EUT sample and test item.



2 Test Configuration of Equipment Under Test

2.1 Test Facility

Conducted disturbance at mains terminals and Conducted disturbance at telecommunication ports Tests

W01: Add: 6F/6F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan
R.O.C.

Radiated emission Test (OATS)

W03: No.38-20, Mujiliao, Sanzhi Dist., New Taipei City 252, Taiwan (R.O.C.)

ACCREDITATIONS

The laboratories are accredited and approved by the TAF according to ISO/IEC 17025.



2.2 Measurement Uncertainty

The measurement instrumentation uncertainty consideration contained in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.2.1 Conducted Emission test

Test Site	Measurement Freq. Range	dB (U_{cispr})	VCCI Site Registration No.	Note
W01	150 kHz~30 MHz	3.19	C-4684	N/A

2.2.2 Conducted emission at telecom port test

Test Site	Measurement Freq. Range	dB (U_{cispr})	VCCI Site Registration No.	Note
W01	150 kHz~30 MHz	3.16	T-2224	N/A

2.2.3 Radiated Emission test

Test Site	Measurement Freq. Range	Ant	dB (U_{cispr})	VCCI Site Registration No.	Note
W03	30 MHz ~ 200 MHz	V	4.29	R-4201	N/A
	30 MHz ~ 200 MHz	H	3.35		N/A
	200 MHz ~ 1000 MHz	V	3.87		N/A
	200 MHz ~ 1000 MHz	H	3.48		N/A
W03	1 GHz ~ 3 GHz	V	4.47	G-833	N/A
	1 GHz ~ 3 GHz	H	4.44		N/A
	3 GHz ~ 6 GHz	V	4.86		N/A
	3 GHz ~ 6 GHz	H	4.47		N/A



3 Generation Information

3.1 Description of EUT

Product	Network Camera
Brand	VIVOTEK
Model No.	FD816CA-HF2
Applicant	VIVOTEK INC.
EUT Power Rating	48 Vdc (from POE)
Model Differences	N/A
Operating System	N/A
Data Cable Supplied	N/A
Accessory Device	N/A
I/O Port	Please refer to the User's Manual

Note:

1. The EUT's highest operating frequency is 800MHz. Therefore the radiated emission is tested up to 6GHz.



3.2 Description of Test Modes

Test results are presented in the report as below.

Test Result	Test Condition
Conducted emission test at telecom port test	
-	POE mode, LAN (10Mbps/100Mbps)
Radiated emission 30MHz ~ 1GHz test	
-	POE mode
Radiated emission above 1GHz test	
-	POE mode

3.3 EUT Operating Condition

- a. Placed the EUT on the test table.
- b. Prepared server PC and POE injector to act as a communication partner and placed it outside of testing area.
- c. The EUT was connected to the server PC via LAN cable and POE.
- d. The communication partner sent data to EUT by command "PING" via LAN.
- e. The server PC shows EUT's image on browser.
- f. The EUT write data with micro SD card.



3.4 Description of Support Unit

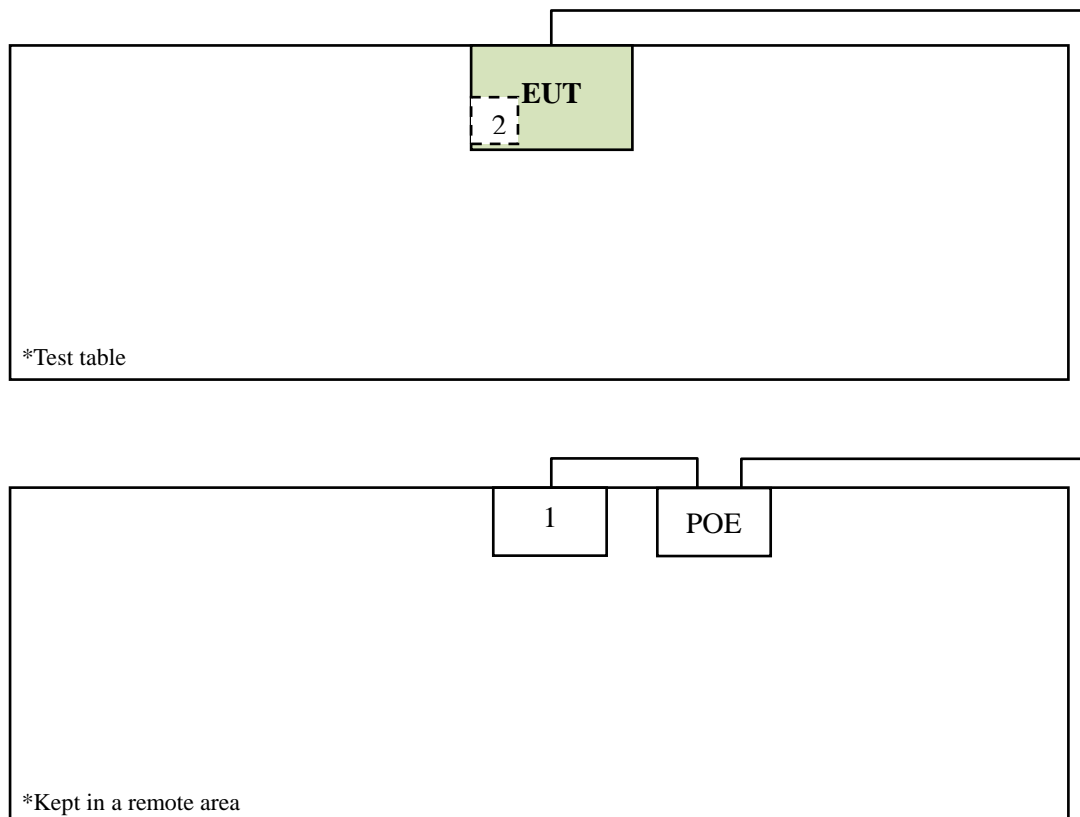
The EUT has been conducted testing with other necessary accessories or support units.

Item	Equipment	Brand	Model No.	Serial No.	FCC ID	Data Cable	Power Cord	Remark
1	Server PC	DELL	OPTIPLEX 380	2C6742S	FCC DoC Approved	1m non-shielded RJ45 cable	1.8m non-shielded cable	-
2	MicroSD Card	ADATA	16GB	N/A	N/A	N/A	N/A	-

- Note:**
1. The core(s) is(are) originally attached to the cable(s).
 2. Item 1 acted as communication partners to transfer data.
 3. The EUT uses the follow POE:

POE Injector (Support unit only)	
Brand	GeoVision
Model	GV-PA481
Input Power	100-240Vac, 2A
Output Power	48Vdc, 1A

3.5 Configuration of System Under Test





4 Emission Test

4.1 Conducted Emission Measurement (Frequency Range 150 KHz-30MHz)

The test is determined no necessary for the EUT do not operate from the power lines or contain provisions for operation while connected to the power lines.



4.2 Conducted Emission at Telecommunication Ports Test

4.2.1 Limit of Conducted Emission at Telecommunication Ports Test

Class A equipment

Frequency (MHz)	Voltage limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.5	97 to 87	84 to 74
0.5 to 30	87	74

Note: The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Class B equipment

Frequency (MHz)	Voltage limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.5	84 to 74	74 to 64
0.5 to 30	74	64

- Note:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
 4. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correction Factor = Insertion loss of ISN + Cable loss
 Margin Level = Measurement Value – Limit Value

4.2.2 Test Instrument

Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-1	Mar. 29, 2016
2	EMI Test Receiver	R&S	ESCI	CT-01-024	Mar. 31, 2016
3	Impedance Stabilization Network	FCC	F-071115-10 57-1-09	CT-01-027	Mar. 30, 2016
4	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-2	Mar. 29, 2016
5	Test Cable	HANRUIN	5D-FB	CT-1-069-1	Jul. 29, 2016
6	50ohm Termination	N/A	N/A	CT-1-065-2	Mar. 29, 2016
7	Measurement Software	EZ-EMC	Ver: FA-03A	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.



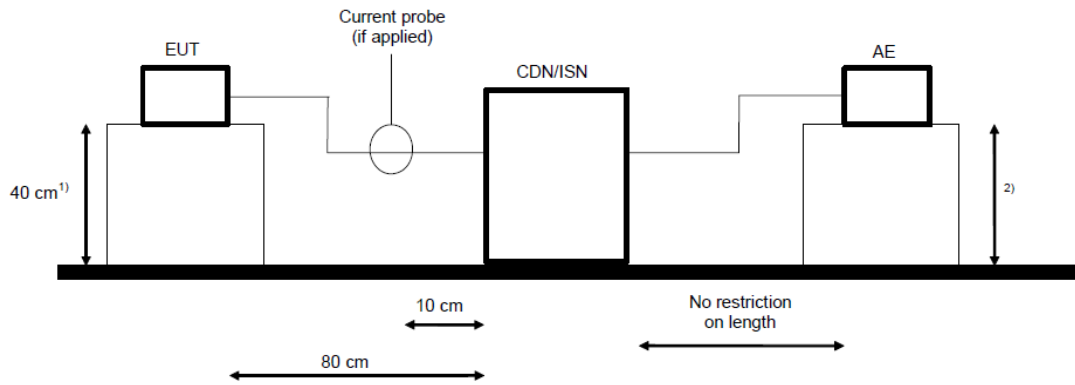
4.2.3 Test Procedure

- a. The EUT was placed 0.4 meter from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN). The LISN at least be 80 cm from nearest chassis of EUT.
- b. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All other support equipments powered from additional LISN(s).
- c. Interrelating cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.
- d. All I/O cables that are not connected to a peripheral shall be bundle in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- e. ISN at least 80 cm from nearest chassis of EUT. The communication function of EUT was executed in normal condition. ISN was connected between EUT and associated equipment and ISN was connected directly to reference ground plane. The actual test configuration, please refer to EUT test photos.
- f. The receiver scanned from 150kHz to 30MHz for emissions in each of test modes. The test mode included 10Mbps, 100Mbps, 1Gbps and POE mode. Emission frequency and amplitude were recorded, recording at least six highest emissions.
- g. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.2.4 Deviation from Test Standard

No deviation

4.2.5 Test Setup



AE = Associated equipment
 EUT = Equipment under test

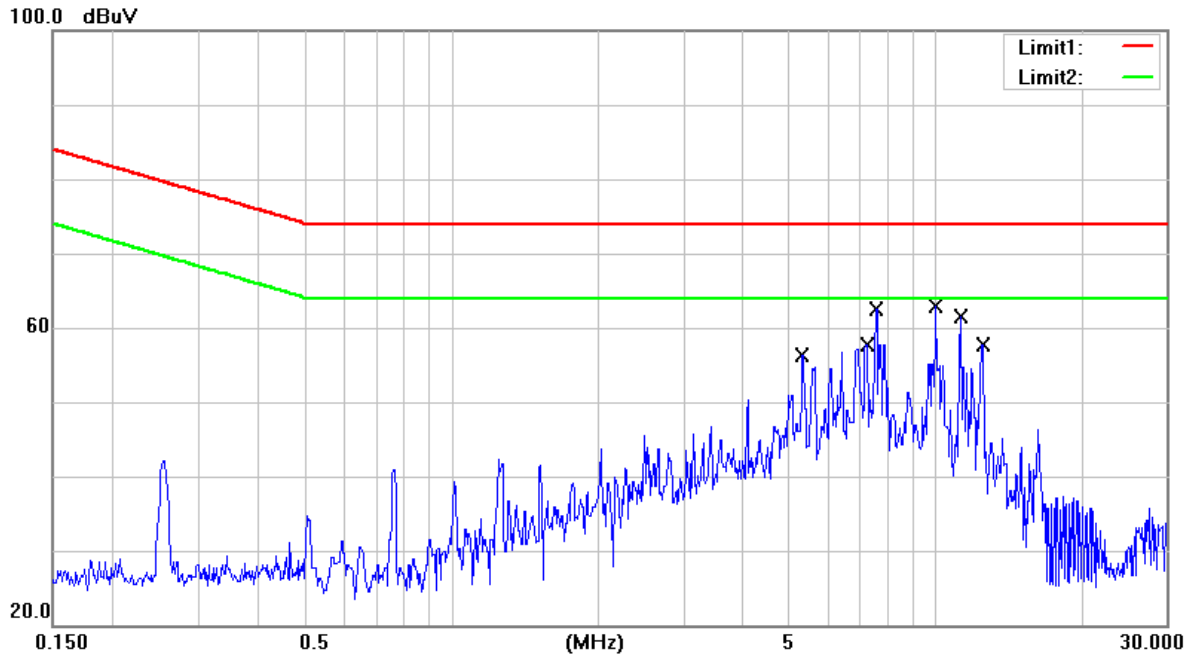
- 1) Distance to the reference groundplane (vertical or horizontal).
- 2) Distance to the reference groundplane is not critical.

Note: Please refer to the 4.2.7 for the actual test configuration.



4.2.6 Test Result

Test Voltage	48Vdc (from POE)	Frequency Range	0.15-30 MHz
Environmental Conditions	23.5°C, 56% RH	6dB Bandwidth	9 kHz
Test Date	2016/10/28	Tested by	Eddy Tsai
Test Condition	LAN port with ISN (10Mbps)		

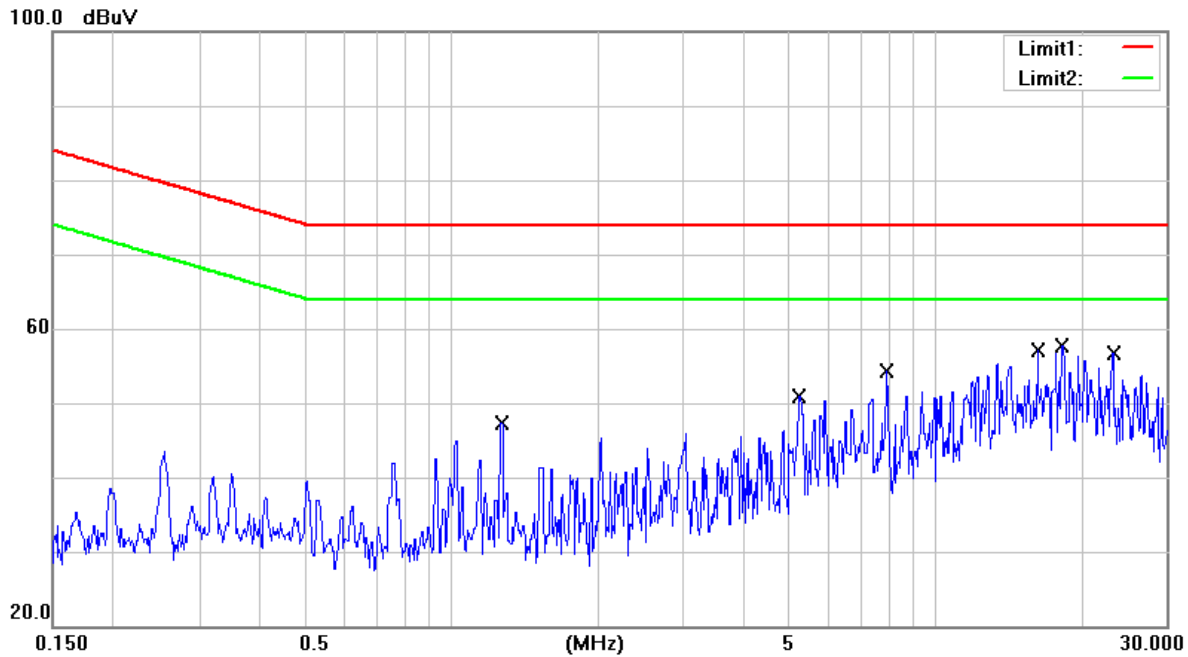


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	5.3250	37.07	9.13	46.20	74.00	-27.80	QP
2	5.3250	27.45	9.13	36.58	64.00	-27.42	AVG
3	7.1750	31.80	9.15	40.95	74.00	-33.05	QP
4	7.1750	12.30	9.15	21.45	64.00	-42.55	AVG
5	7.5500	39.49	9.16	48.65	74.00	-25.35	QP
6	7.5500	22.08	9.16	31.24	64.00	-32.76	AVG
7	10.0000	46.41	9.19	55.60	74.00	-18.40	QP
8	10.0000	26.49	9.19	35.68	64.00	-28.32	AVG
9	11.2500	45.05	9.21	54.26	74.00	-19.74	QP
10	11.2500	25.94	9.21	35.15	64.00	-28.85	AVG
11	12.4500	35.68	9.22	44.90	74.00	-29.10	QP
12	12.4500	19.41	9.22	28.63	64.00	-35.37	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of ISN + Cable loss
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	48Vdc (from POE)	Frequency Range	0.15-30 MHz
Environmental Conditions	23.5°C , 56% RH	6dB Bandwidth	9 kHz
Test Date	2016/10/28	Tested by	Eddy Tsai
Test Condition	LAN port with ISN (100Mbps)		



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	1.2650	34.91	9.20	44.11	74.00	-29.89	QP
2	1.2650	31.10	9.20	40.30	64.00	-23.70	AVG
3	5.2250	22.84	9.13	31.97	74.00	-42.03	QP
4	5.2250	10.40	9.13	19.53	64.00	-44.47	AVG
5	7.9250	42.33	9.16	51.49	74.00	-22.51	QP
6	7.9250	40.56	9.16	49.72	64.00	-14.28	AVG
7	16.2250	46.58	9.27	55.85	74.00	-18.15	QP
8	16.2250	45.41	9.27	54.68	64.00	-9.32	AVG
9	18.2500	35.24	9.30	44.54	74.00	-29.46	QP
10	18.2500	32.59	9.30	41.89	64.00	-22.11	AVG
11	23.1500	30.80	9.41	40.21	74.00	-33.79	QP
12	23.1500	13.83	9.41	23.24	64.00	-40.76	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of ISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

4.2.7 Photographs of Test Configuration





4.3 Radiated Emission Measurement

4.3.1 Limits of Radiated Emission Measurement

Radiated Frequency range 30 MHz to 1000 MHz

Frequency (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 to 230	40	30
230 to 1000	47	37

Note: 1. The lower limit shall apply at the transition frequency.

Radiated Frequency range above 1 GHz

Frequency (GHz)	Class A (at 3m)		Class B (at 3m)	
	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)
1 to 3	56	76	50	70
3 to 6	60	80	54	74

- Note:**
1. The lower limit shall apply at the transition frequency.
 2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
 3. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain
 + Cable loss (preamplifier to receiver)
 Margin Level = Measurement Value - Limit Value
 4. Maximum internal signal source is defined as the maximum frequency of the device under test, or EUT highest frequency tuning of the operation or in the production or use of the device under test.
 5. If the maximum frequency of the device under test is less than the internal source of 108MHz, the only measure to 1GHz.
 6. If the maximum frequency of the device between 108MHz and 500MHz maximum frequency of the device under test ranged from internal sources, you must measure to 2GHz.
 7. If the maximum frequency of the device under test between internal source of 500MHz and 1GHz, you must measure to 5GHz.
 8. If the maximum frequency of the device under test is higher than the internal source of 1GHz, it must measure up to the maximum frequency of 5 times or 6GHz, choosing the less.



4.3.2 Test Instrument

Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	Horn Antenna	Schwarzbeck	BBHA 9120 D	CT-1-001	Apr. 01, 2016
2	Bilog Antenna	Schwarzbeck	VULB 9168	CT-1-002-1	Mar. 30, 2016
3	Test Cable	HARUIN	CFD400NL-LW	CT-1-070	Aug. 02, 2016
4	Preamplifier	EM Electronics Corporation	EM30265	CT-1-013	Aug. 02, 2016
5	Test Cable	HARBOUR	27478 LL142	CT-1-073	Aug. 03, 2016
6	EMI Test Receiver	Agilent	N9038A	CT-1-068	Aug. 02, 2016
7	Measurement Software	Ez-EMC	Ver : FA-03A2 RE	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.



4.3.3 Test Procedure

- a. The EUT was placed on the top of a turntable 0.8 meters above the ground at a 3 m or 10 m open area test site. The table was rotated 360 degrees to determine the position of the high radiation emissions.
- b. The height of the test antenna shall vary between 1 m to 4 m. Both vertical and horizontal polarizations of the antenna were set to make the measurement.
- c. The EUT was set up as per the test configuration to simulate typical usage per the user's manual. All I/O cables were positioned to simulate typical usage. The actual test configuration, please refer to EUT test photos.
- d. The initial step in collecting radiated emission data is a Spectrum Mode scanning the measurement frequency range.

Blow 1GHz:

Reading in which marked as QP or Peak means measurements by using Spectrum Mode with detector RBW=120kHz.

If the Spectrum Mode measured peak value compliance with and lower than Quasi Peak Limit, the EUT shall be deemed to meet QP Limits.

Above 1GHz:

Reading in which marked as Peak & AVG means measurements by using Spectrum Mode with setting in RBW=1MHz.

If the Spectrum Mode measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak and AVG Limits.

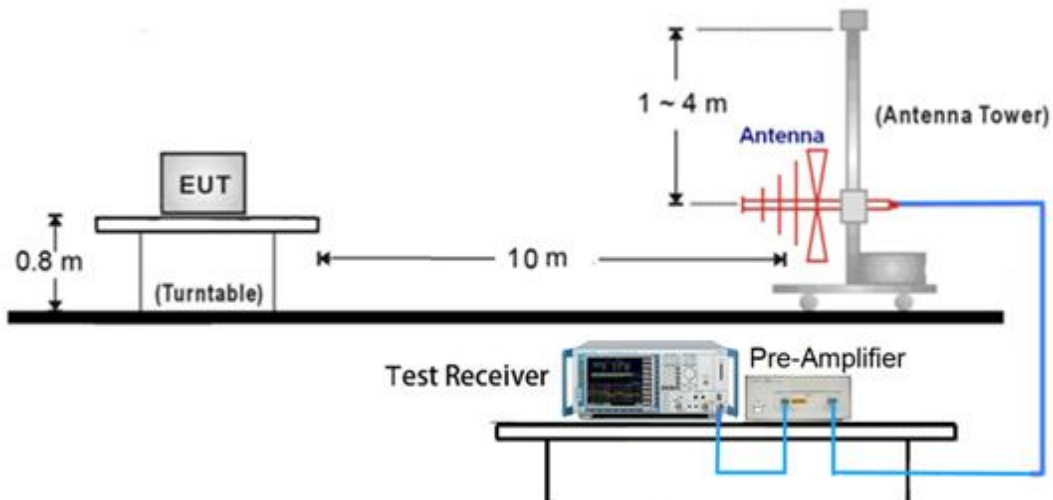
- e. Emission frequency and amplitude were recorded, recording at least six highest emissions. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.3.4 Deviation from Test Standard

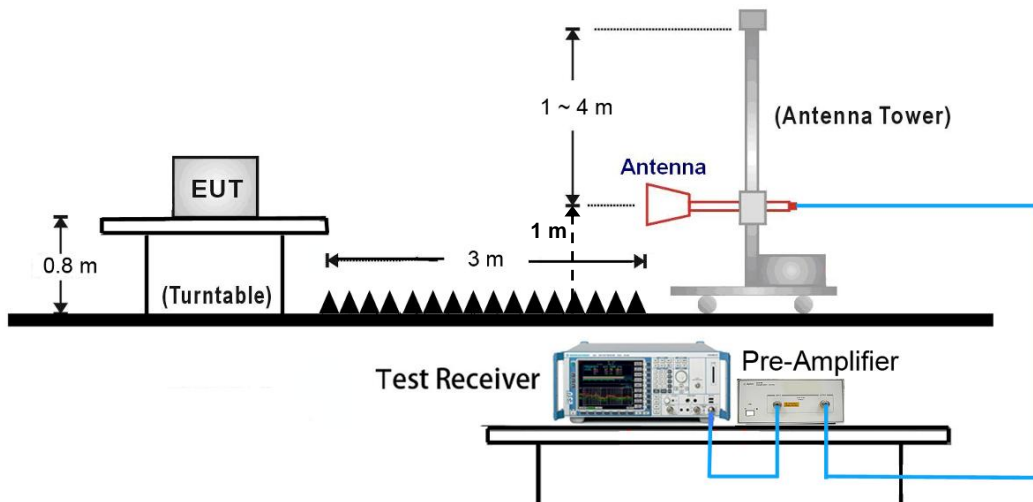
No deviation

4.3.5 Test Setup

< Radiated Emissions Frequency: 30 MHz to 1000 MHz >



< Radiated Emissions Frequency: above 1GHz >



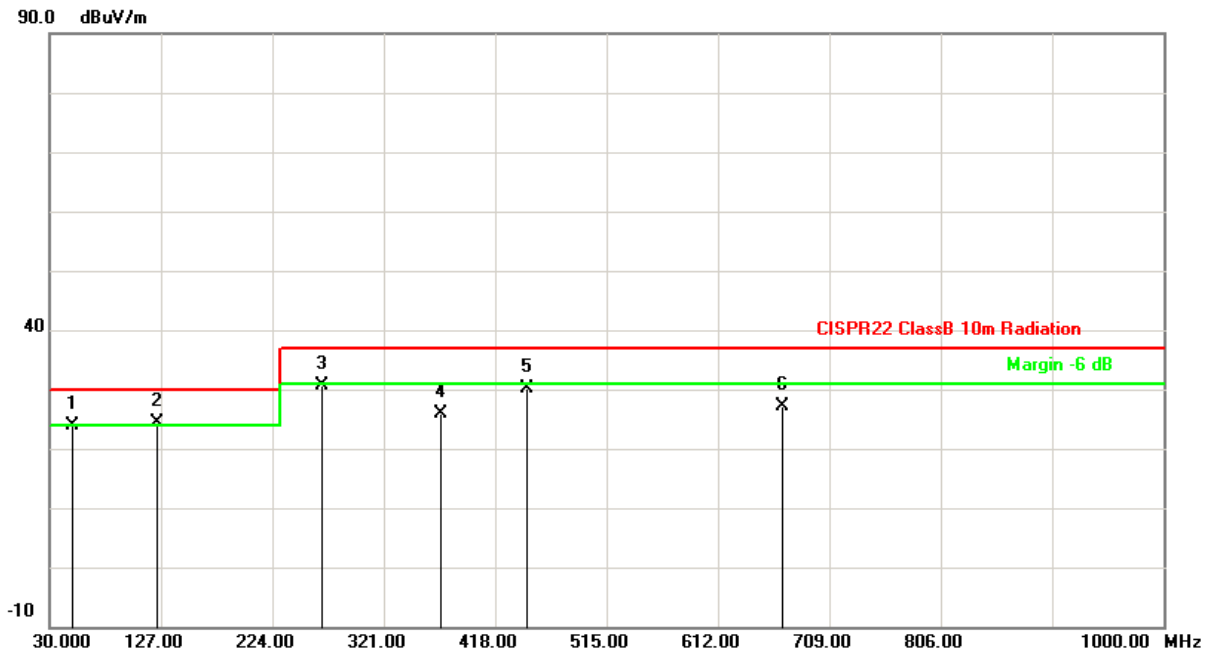
Note:

- (1) Please refer to the 4.3.7 for the actual test configuration.
- (2) The formula of measured value as: $\text{Test Result} = \text{Reading} + \text{Correction Factor}$
- (3) Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- (4) The test result calculated as following:
 $\text{Measurement Value} = \text{Reading Level} + \text{Correct Factor}$
 $\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain (if use)}$
 $\text{Margin Level} = \text{Measurement Value} - \text{Limit Value}$



4.3.6 Test Result

Test Voltage	48Vdc (from POE)	Frequency Range	30 – 1000 MHz
Environmental Conditions	22°C, 63% RH	6dB Bandwidth	120 kHz
Test Date	2016/11/01	Test Distance	10m
Tested by	Evan Cheng	Polarization	Vertical



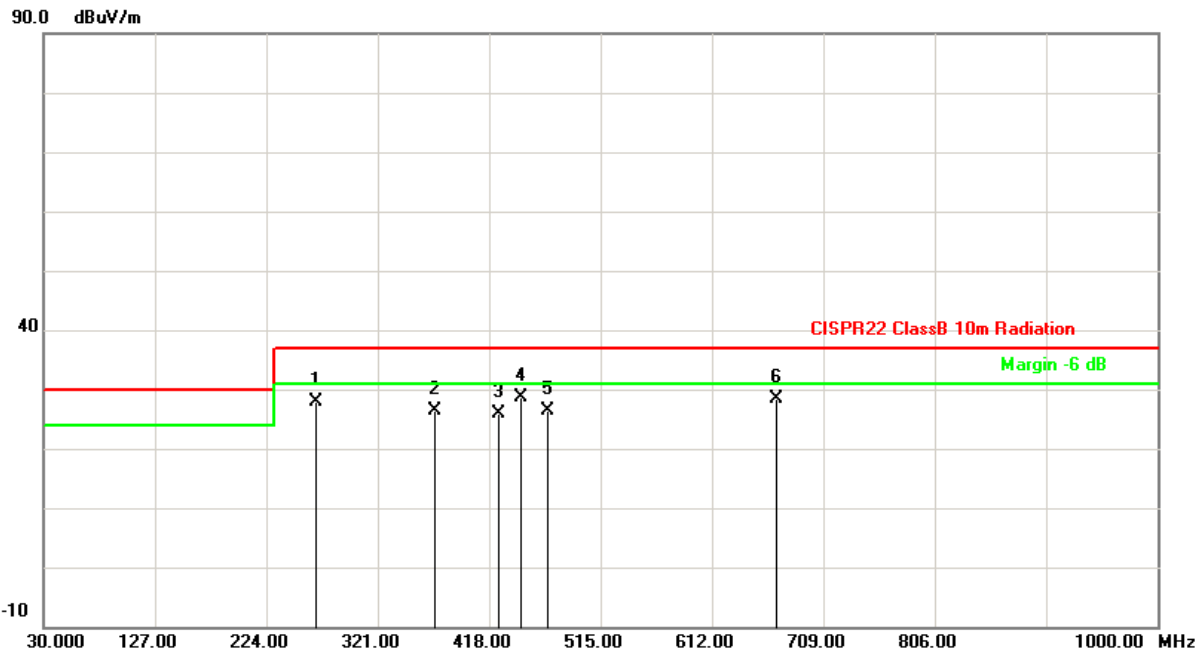
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	50.4160	41.91	-17.93	23.98	30.00	-6.02	QP	100	360
2	124.1900	45.21	-20.93	24.28	30.00	-5.72	QP	100	125
3	267.0000	52.42	-21.75	30.67	37.00	-6.33	QP	100	151
4	371.2600	44.67	-18.84	25.83	37.00	-11.17	QP	100	261
5	445.5150	46.87	-16.65	30.22	37.00	-6.78	QP	100	62
6	668.2600	39.00	-11.89	27.11	37.00	-9.89	QP	100	98

Remark:

1. QP = Quasi Peak
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



Test Voltage	48Vdc (from POE)	Frequency Range	30 – 1000 MHz
Environmental Conditions	22°C, 63% RH	6dB Bandwidth	120 kHz
Test Date	2016/11/01	Test Distance	10m
Tested by	Evan Cheng	Polarization	Horizontal

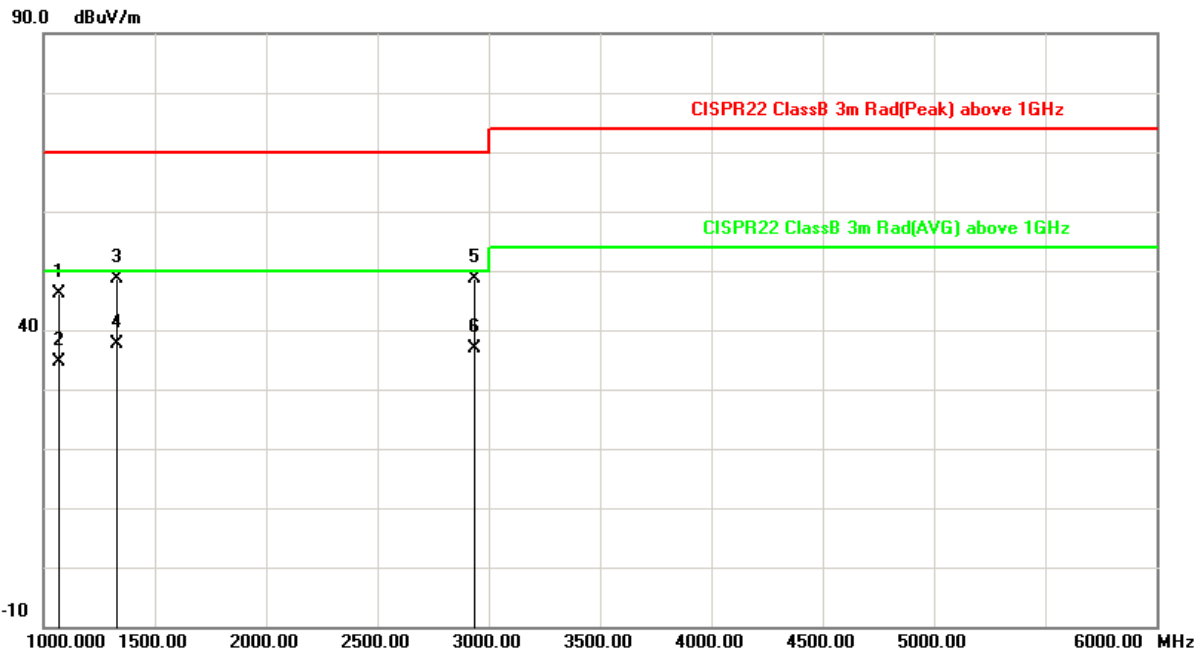


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	267.0000	49.61	-21.75	27.86	37.00	-9.14	QP	400	129
2	371.2515	45.31	-18.84	26.47	37.00	-10.53	QP	346	161
3	427.0000	43.24	-17.24	26.00	37.00	-11.00	QP	189	52
4	445.5100	45.25	-16.65	28.60	37.00	-8.40	QP	187	57
5	469.0000	42.37	-16.05	26.32	37.00	-10.68	QP	186	54
6	668.2550	40.30	-11.89	28.41	37.00	-8.59	QP	187	50

Remark: 1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	48Vdc (from POE)	Frequency Range	1 – 6GHz
Environmental Conditions	22°C, 63% RH	6dB Bandwidth	1MHz
Test Date	2016/11/01	Test Distance	3m
Tested by	Evan Cheng	Polarization	Vertical



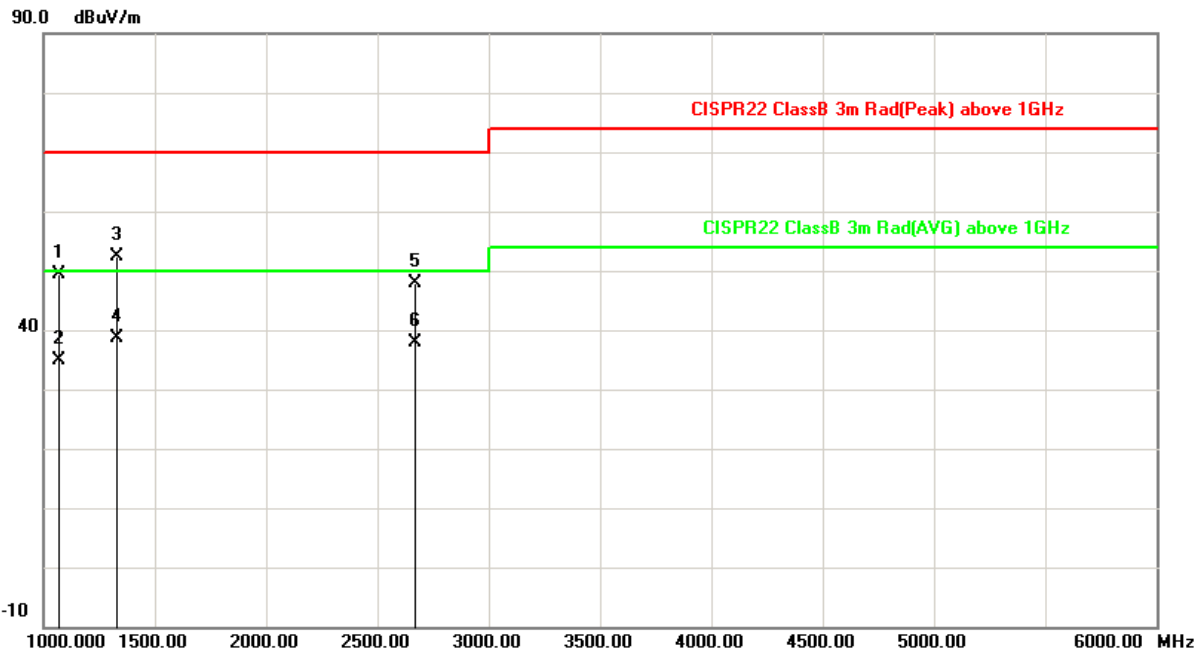
No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	1067.000	59.41	-13.36	46.05	70.00	-23.95	peak	100	284
2	1067.000	47.88	-13.36	34.52	50.00	-15.48	AVG	100	284
3	1332.000	59.61	-10.97	48.64	70.00	-21.36	peak	100	276
4	1332.000	48.72	-10.97	37.75	50.00	-12.25	AVG	100	276
5	2937.000	51.62	-2.94	48.68	70.00	-21.32	peak	100	254
6	2937.000	39.77	-2.94	36.83	50.00	-13.17	AVG	100	254

Remark:

1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



Test Voltage	48Vdc (from POE)	Frequency Range	1 – 6GHz
Environmental Conditions	22°C, 63% RH	6dB Bandwidth	1MHz
Test Date	2016/11/01	Test Distance	3m
Tested by	Evan Cheng	Polarization	Horizontal

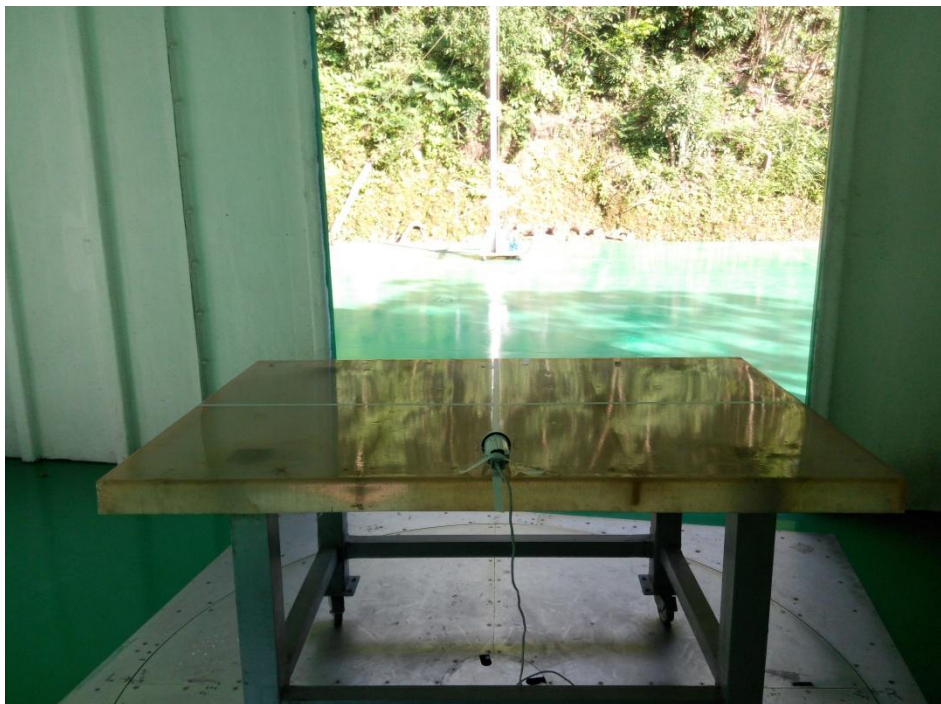


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Height (cm)	Table Degree (degree)
1	1067.000	62.84	-13.36	49.48	70.00	-20.52	peak	100	257
2	1067.000	48.32	-13.36	34.96	50.00	-15.04	AVG	100	257
3	1333.000	63.44	-10.96	52.48	70.00	-17.52	peak	100	341
4	1333.000	49.65	-10.96	38.69	50.00	-11.31	AVG	100	341
5	2667.000	52.12	-4.27	47.85	70.00	-22.15	peak	100	256
6	2667.000	42.12	-4.27	37.85	50.00	-12.15	AVG	100	256

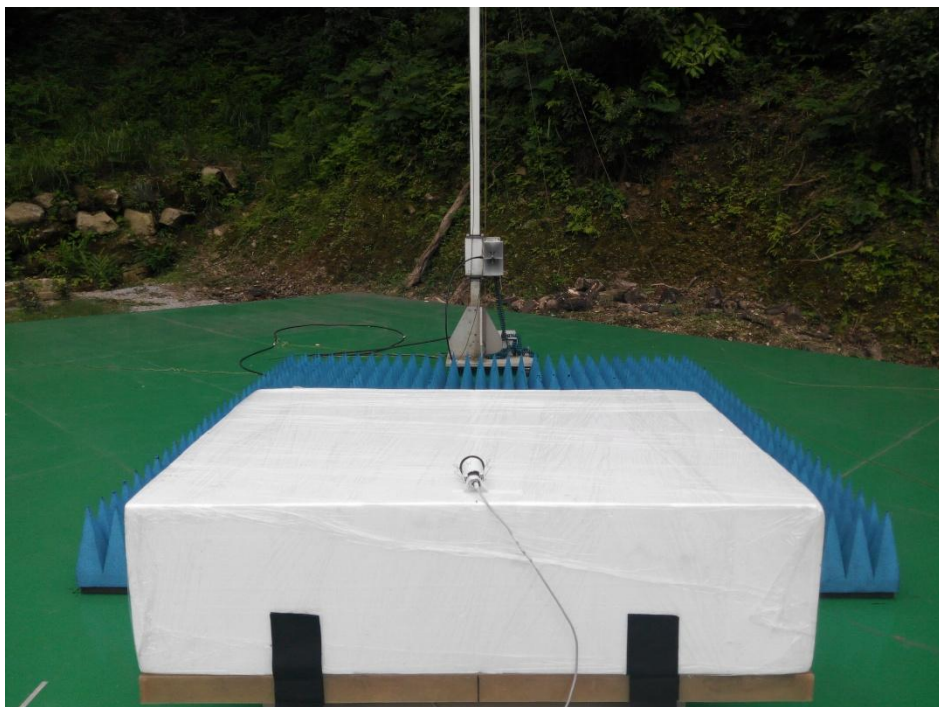
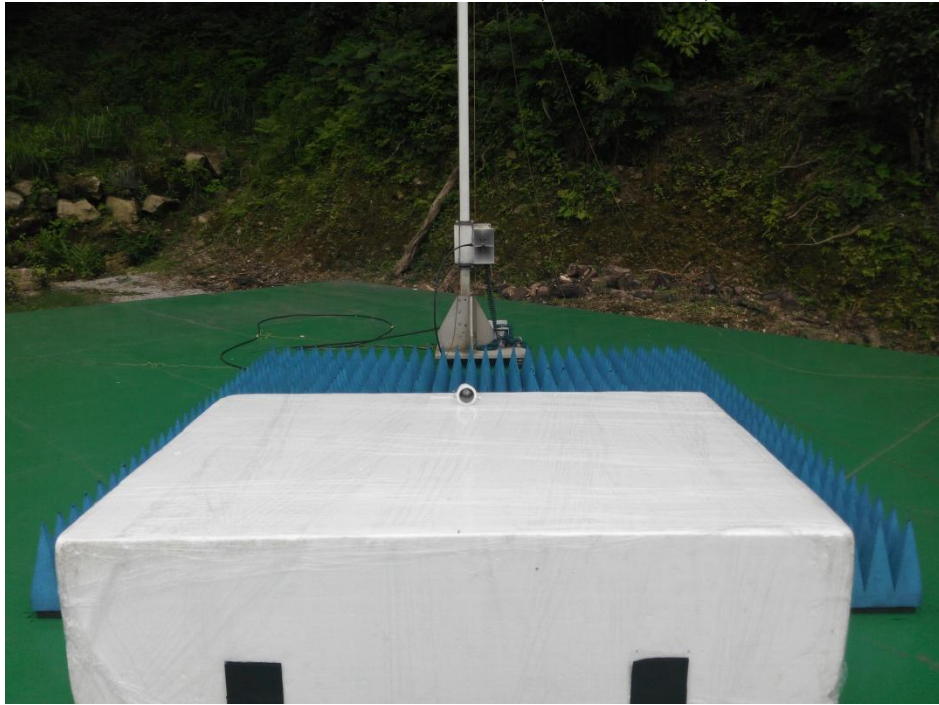
Remark: 1. peak = Peak, AVG = Average
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value

4.3.7 Photographs of Test Configuration

Radiated Emission Test (30MHz~1GHz)



Radiated Emission Test (Above 1GHz)



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