EMC Test Report

Product Name: **Wireless LAN Access Point**

Product Name: **AP5030DN**
AP5130DN

Report Number: **SYBH(E)01233509EB**

Reliability Laboratory of Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
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Notice

1. The laboratory has passed the accreditation by China National Accreditation Service for Conformity Assessment (CNAS). The accreditation number is L0310.
2. The laboratory has been listed by the US Federal Communications Commission to perform electromagnetic emission measurements. The site recognition number is 684868.
3. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369D-1 and 6369D-2.
4. The laboratory has been listed by the VCCI to perform EMC measurements. The accreditation numbers of test site No.1 are R-3892, G-415, C-4361, and T-1348, and the accreditation numbers of test site No.2 are R-3760, G-485, C-4210 and T-1237.
5. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
6. The test report is invalid if there is any evidence of erasure and/or falsification.
7. The test report is only valid for the test samples.
8. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

Applicant:	Huawei Technologies Co., Ltd.
Address:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Product Name:	Wireless LAN Access Point
Product Model:	AP5030DN AP5130DN
Date of Receipt Sample:	2014-02-08
Start Date of Test:	2014-02-10
End Date of Test:	2014-02-13
Test Result:	Pass

Approved by Senior Engineer:	2014-02-15	Zhang Xinghai	Zhang Xing hai
	Date	Name	Signature
Prepared by:	2014-02-14	Wang Jia	Wang Jia
	Date	Name	Signature

Modification Record

No.	Last Report No.	Modification Description
1	N/A	First report

Content

1 General Information

1.1 Applied Standard

Applied Product Standard:	FCC CFR47 Part 15 Subpart B:2012 ICES-003 Issue 5:2012
Test Method:	ANSI C63.4:2003

1.2 Test Location

Test Location 1:	Reliability Laboratory of Huawei Technologies Co., Ltd.
Address:	No.2222,Xin Jinqiao Road, Pudong New Area, Shanghai, 201206, P.R.C

1.3 Test Environment Condition

Ambient Temperature:	20-25°C
Relative Humidity:	45-55%
Atmospheric Pressure:	101kPa

2 Summary of Test Results

Table 1 Test summary

EUT Classification: Class B Digital Device				
Test Items	Test Configuration	Limit	Test Result	Location
Radiated Emissions Enclosure Port	TC1~TC4	Class B	Pass	Location1
Conducted Emissions AC Power Port	TC1, TC3	Class B	Pass	Location1
Note: 1, Measurement taken is within the uncertainty of measurement system. 2, TC = Test configuration				

3 Equipment Specification

3.1 General Description

The AP5030DN and AP5130DN are performance-enhanced AP. It supports 3 x 3 MIMO and provides comprehensive service support capabilities. The AP5030DN/AP5130DN is deployed indoors and feature high reliability, high security, simple network deployment, automatic AC discovery and configuration, and real-time management and maintenance.

The following table lists the differences between AP5030DN and AP5130DN:

Table 2 Different Items

Features	Model	
	AP5030DN	AP5130DN
Main Board	H85D2TT1D300	H85D2TT1D300
Adapter	All the adapters in table 5	All the adapters in table 5
Ports	DC input port * 1 GE/PoE port * 1 GE port * 1 Console port * 1	DC input port * 1 GE/PoE port * 1 GE port * 1 Console port * 1 RF port * 3
Antenna Type	Internal integrated Omni Antenna	External Omni Antenna
Frequency Range	Wifi 2.4~2.4835GHz; 5.15~5.35GHz, 5.47~5.825GHz	Wifi 2.4~2.4835GHz; 5.15~5.35GHz, 5.47~5.825GHz

3.2 Specification

Table 3 Main equipment specification

Adapter Input voltage	～ 100 V to 240 V (50/60 Hz)
Equipment Input voltage	DC: ⎓ 12 V Power over Ethernet: ⎓ -48V
Rated Power (W)	13 W
Dimensions(W x D x H)	⩽ 220 mm x 220 mm x 60 mm
Weight (kg)	⩽ 1.5kg
Transmit frequency	2.4~2.4835GHz; 5.15~5.35GHz, 5.47~5.825GHz
Receive frequency	2.4~2.4835GHz; 5.15~5.35GHz, 5.47~5.825GHz
Frequency of the Internal Source (MHz)	25 MHz; 40 MHz; 300 MHz

Figure 1.EUT appearance (AP5030DN)

Figure 2.EUT appearance (AP5130DN)

Figure 3.Adapter appearance (FUHUA HW-120200U1W)

Figure 4.Adapter appearance (FUHUA HW-120200C1W)

Figure 5.Adapter appearance (FUHUA HW-120200E1W)

Figure 6.Adapter appearance (FUHUA HW-120200B1W)

Figure 7.Adapter appearance (HUNTKEY HW-120200U1W)

Figure 8.Adapter appearance (HUNTKEY HKA02412020-1K)

Figure 9.Adapter appearance (HUNTKEY HKA02412020-3K)

Figure 10. Adapter appearance (HUNTKEY HKA02412020-4K)

Figure 11. EUT appearance (HUNTKEY HW-120200A1W Black)

Figure 12. EUT appearance (HUNTKEY HW-120200A1W White)

3.3 Board and SubAssembly

Table 4 Board list

Board		
Board Name	Hardware Version	Description
H85D2TT1D300	VER.A	Main Board for AP5030DN and AP5130DN, 2.4GHz and 5.8GHz, 3T3R

Table 5 Subassembly list

Subassembly			
Subassembly Name	Model	Manufacturer	Description
AC/DC Adapter	HW-120200U1W	FUHUA	Adapter,-5degC,45degC,90V,270V,12V/2A,US Standard/DC inlet
AC/DC Adapter	HW-120200C1W	FUHUA	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-China Standard-DC inlet
AC/DC Adapter	HW-120200E1W	FUHUA	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-Europe Standard-DC inlet
AC/DC Adapter	HW-120200B1W	FUHUA	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-UK Standard-DC inlet
AC/DC Adapter	HW-120200U1W	HUNTKEY	Adapter,-5degC,45degC,90V,270V,12V/2A,US Standard/DC inlet
AC/DC Adapter	HKA02412020-1K	HUNTKEY	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-China Standard-DC inlet
AC/DC Adapter	HKA02412020-3K	HUNTKEY	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-Europe Standard-DC inlet
AC/DC Adapter	HKA02412020-4K	HUNTKEY	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-UK Standard-DC inlet
AC/DC Adapter	HW-120200A1W	HUNTKEY	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-Australia Standard-DC inlet-Black
AC/DC Adapter	HW-120200A1W	HUNTKEY	AC/DC Adapter--5degC-45degC-90V-270V-12V/2A-Australia Standard-DC inlet-White
Isotropic Antenna	C15N13Z100BB	RiAn	Isotropic Antenna for AP5030DN, 2400~2500/5150~5850MHz,4dBi(2.4GHz)/5dBi(5GHz),linear polarized ,1W,U.FL*3,without bracket
Isotropic Antenna	SL10301A	ShengLu	Isotropic Antenna for AP5130DN, 2400~2500MHz/5150~5850MHz, 2.5dBi(2.4G)/4dBi(5G), isotropic, without bracket
Isotropic Antenna	TT-245804-6W1	TongYu	Isotropic Antenna for AP5130DN, 2400~2500MHz/5150~5850MHz, 2.5dBi(2.4G)/4dBi(5G), isotropic, without bracket

4 System Configuration during EMC Test

The Equipment under Test (EUT) was functioning correctly during all tests. The EUT was installed within the test site and was configured to simulate a typical configuration.

4.1 Ports and Cables

Table 6 Ports and cables

Port	Quantity	Length (m)	Connector	Type of Cable
AC Power Port(adapter)	1	/	/	/
DC Power Port(AP)	1	1.5m	/	/
GE1	1	10m	RJ45	Unshielded
GE0/PoE	1	10m	RJ45	Unshielded
Console	1	10m	RJ45	Unshielded
RF port	3	/	SMA	Shielded

4.2 Auxiliary Equipment

Table 7 Auxiliary equipment

Name	Model	Manufacturer	S/N	Calibration Date	Cal Interval (month)	Remark
Access Controller	AC6605	HUAWEI	210235396810D300214	N/A	N/A	N/A
PC(2G STA)	T420	THINKPAD	A120813099	N/A	N/A	N/A
PC(5G STA)	T420	THINKPAD	A120842136	N/A	N/A	N/A
PC(server)	T420	THINKPAD	A120815462	N/A	N/A	N/A
PC(server)	T420	THINKPAD	A120829377	N/A	N/A	N/A

4.3 Test Configurations

The equipment under test (EUT) was connected to ancillary devices in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment). There were four test configurations. TC1~TC4 were shown in the following table and figures:

Table 8 Test configuration

Configuration	Configuration Description
TC1	AP5030DN, powered by adapter
TC2	AP5030DN, powered over ethernet
TC3	AP5130DN, powered by adapter
TC4	AP5130DN, powered over ethernet

Note: During the test, all the adapters with the different manufactures and models were used for TC1 and TC3.

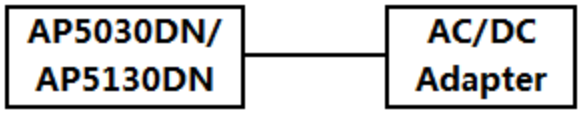


Figure 13. Test configuration 1 & 3 (TC1 and TC3)

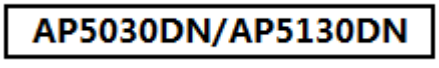


Figure 14. Test configuration 2 & 4 (TC2 and TC4)

4.4 Test Conditions and Connections

4.4.1 Test Condition and Connection for TC1 and TC3

In this connection, the AP functions as a Fit AP that provides only data forwarding function. The Access Controller (AC) is responsible for user access, authentication, AP management, and configurations of security protocols, routing, and Qos. The sta is used as WLAN terminal user and Powered by POE.

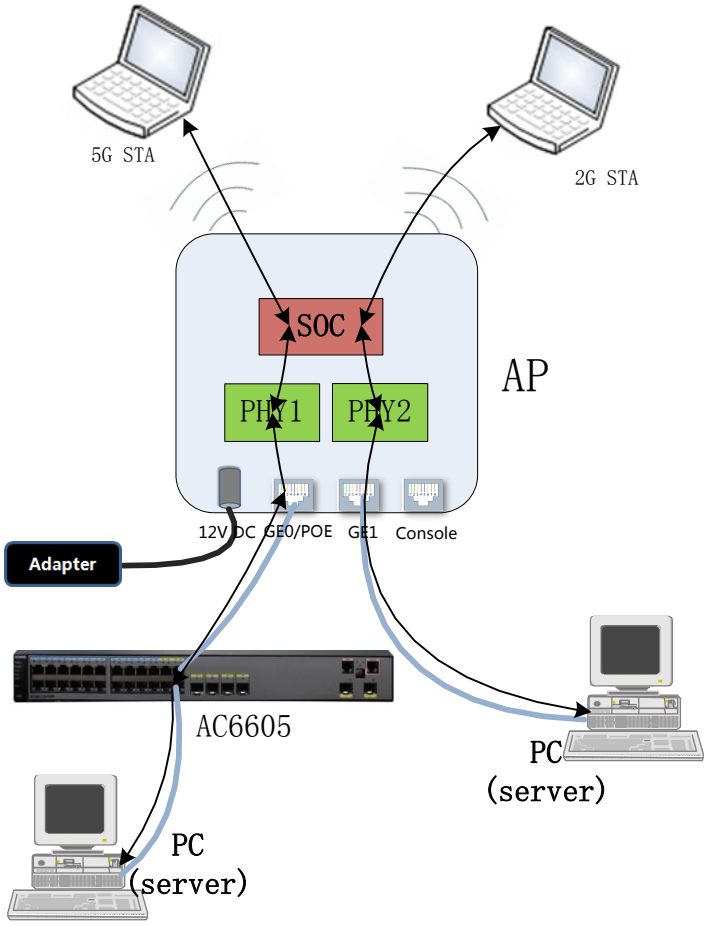


Figure 15. Test connection for TC1 and TC3

4.4.2 Test Condition and Connection for TC2 and TC4

In this connection, the AP functions as a Fit AP that provides only data forwarding function. The Access Controller (AC) is responsible for user access, authentication, AP management, and configurations of security protocols, routing, and Qos. The sta is used as WLAN terminal user and Powered by POE.

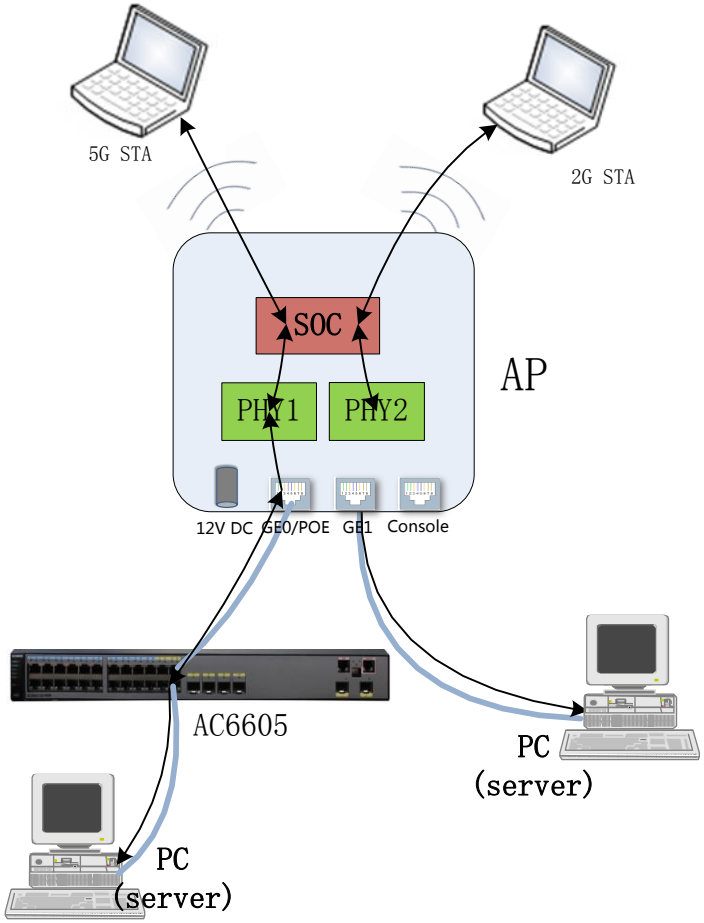


Figure 16. Test connection for TC2 and TC4

5 Details of Test Items

5.1 Radiated Emission 30 MHz to 18 GHz

5.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standard ANSI C63.4. The test distance was 3m.The set-up and test methods were according to ANSI C63.4.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 18 GHz by using test script of software; the emissions were measured using Quasi-Peak Detector for 30 MHz to1 GHz, Average and Peak detector for above 1 GHz. The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1 m to 4 m, the azimuth range of turntable was 0°to 360°, The receive antenna has two polarizations V and H.

The test set-up is shown in diagram as below:

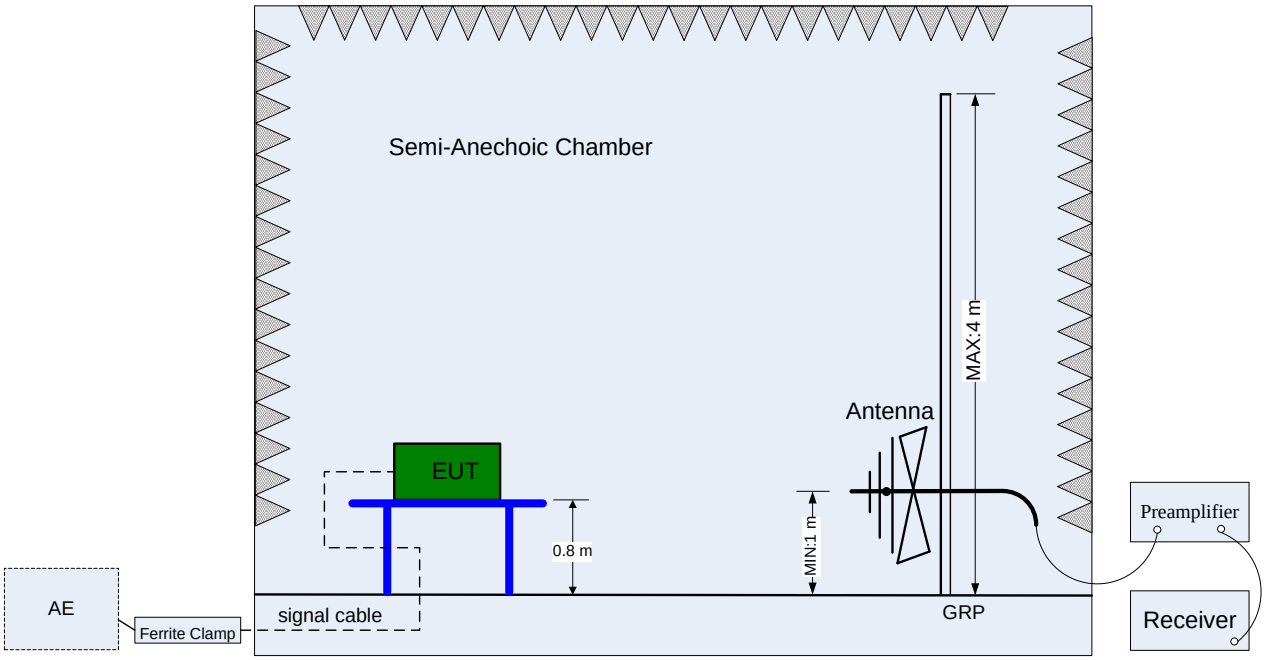


Figure 17. Test set-up of radiated disturbance (30 MHz-1 GHz)

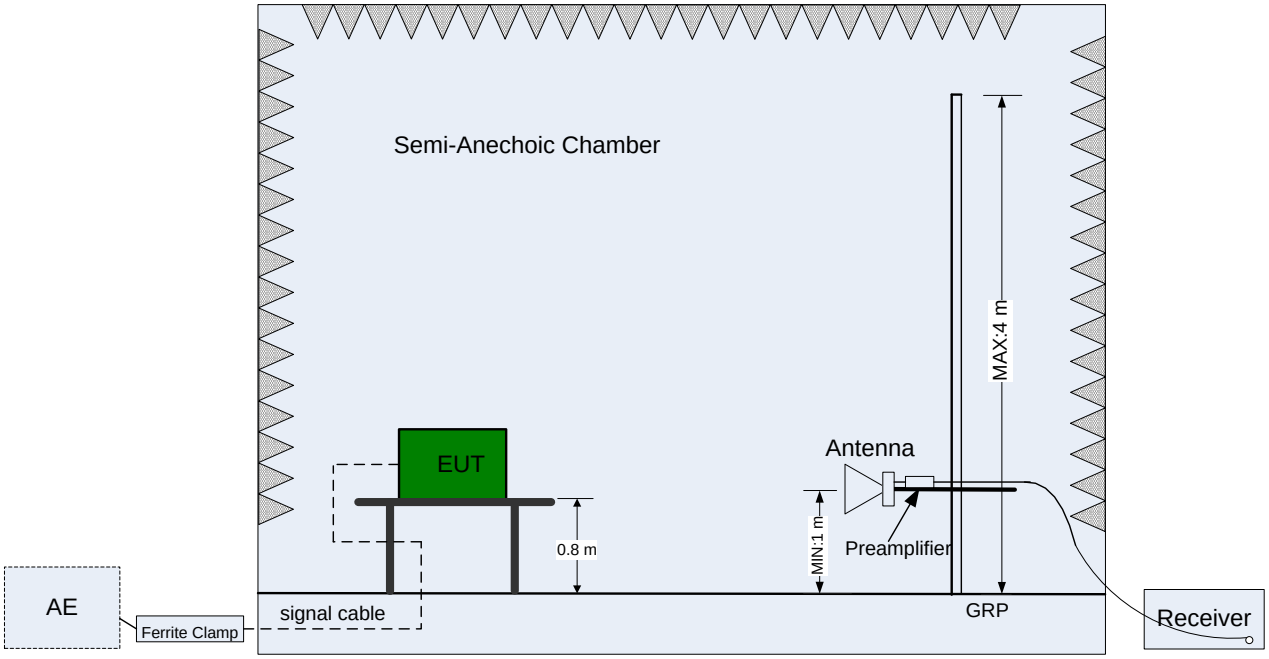


Figure 18. Test set-up of radiated disturbance (above 1 GHz)

5.1.2 Test Results

The EUT has met the requirements for radiated emission of enclosure port.
For the test data, see section 8.1.

Table 9 Test limits for 30MHz to 1GHz at a measuring distance of 3m

Frequency range	30 MHz to 1 GHz
Measuring distance	3 m
Classification	Class B
Limits(Class B)	30 MHz to 88 MHz 40.0 dBµV/m 88 MHz to 216 MHz 43.5 dBµV/m 216 MHz to 960 MHz 46.0 dBµV/m 960 MHz to 1 GHz 53.9 dBµV/m

Table 10 Test limits for above 1GHz at a measuring distance of 3m

Frequency range	1 GHz to 18 GHz	
Measuring distance	3 m	
Classification	Class B	
Limits(Class B)	AV Detector	PK Detector
	53.9 dBµV/m	73.9 dBµV/m

Note: The highest frequency of the internal sources of the EUT is 300 MHz, the measurement was made up to 18 GHz.

5.2 Conducted Disturbance 0.15 MHz to 30 MHz

5.2.1 Test Procedure

The EUT was configured as described in section 4. The mains cable of the EUT must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

The test set-up is shown in diagram as below:

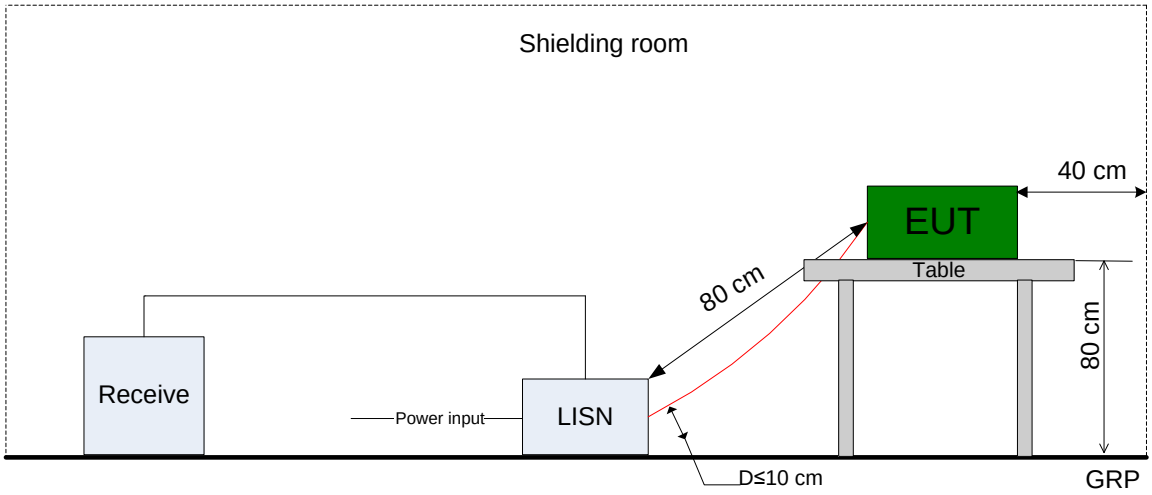


Figure 19. Test set-up of conducted disturbance for AC power port

5.2.2 Test Results

The EUT has met the requirements of FCC Part15 and ICES 003 for Conducted Disturbance of AC Power Port
For the test data, see section 8.2

Table 11 Limits of AC power port

Frequency range	150 kHz to 30 MHz	
Classification	Class B	
Limit(Class B)	Voltage limits (dBμV)	
	QP	AV
0.15 to 0.5 MHz	66 to 56	56 to 46
0.5 to 5 MHz	56	46
5 to 30 MHz	60	50

6 Main Test Instruments

Table 12 Main test instrument

Test Item	Test Instrument	Model	Manufacturer	Calibration Date	Calibration Interval (Month)
Radiated Emission	EMI Test Receiver	ESU40 (100303)	R&S	2014-01-13	12
	Bilog antenna	VULB 9163 (480)	SCHWARZBECK	2013-05-11	24
	Horn antenna	9120D (878)	SCHWARZBECK	2013-03-21	24
	Chamber _NSA	3m chamber	Albatross	2011-12-02	36
Conducted Emission	EMI test receiver	ESCI 3 (101619)	R&S	2014-01-13	12
	Artificial Mains Network	ENV4200 (100141)	R&S	2014-01-13	12
Software Information					
Test Item		Software Name	Manufacturer	Version	
Radiated emission		EMC32	R&S	V8.5.3	
Conducted emission		EMC32	R&S	V8.3	

7 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

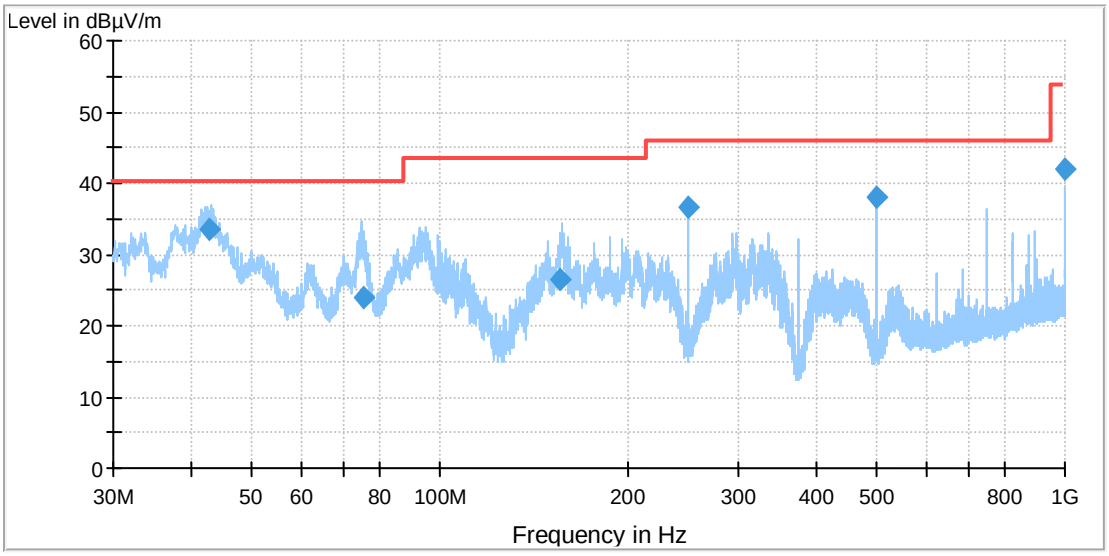
Table 13 System measurement uncertainty

Items		Extended Uncertainty
Radiated Emission	Field strength (dBμV/m)	U=4.3 dB; k=2 (30 MHz -1 GHz)
		U=3.1 dB; k=2(1GHz - 18GHz)
Conducted Emission	Disturbance Voltage (dBμV)	U=2.7dB; k=2

8 Graph and Data of Emission Test

8.1 Radiated Disturbance

8.1.1 Radiated Disturbance of TC1 (30 MHz – 1GHz)

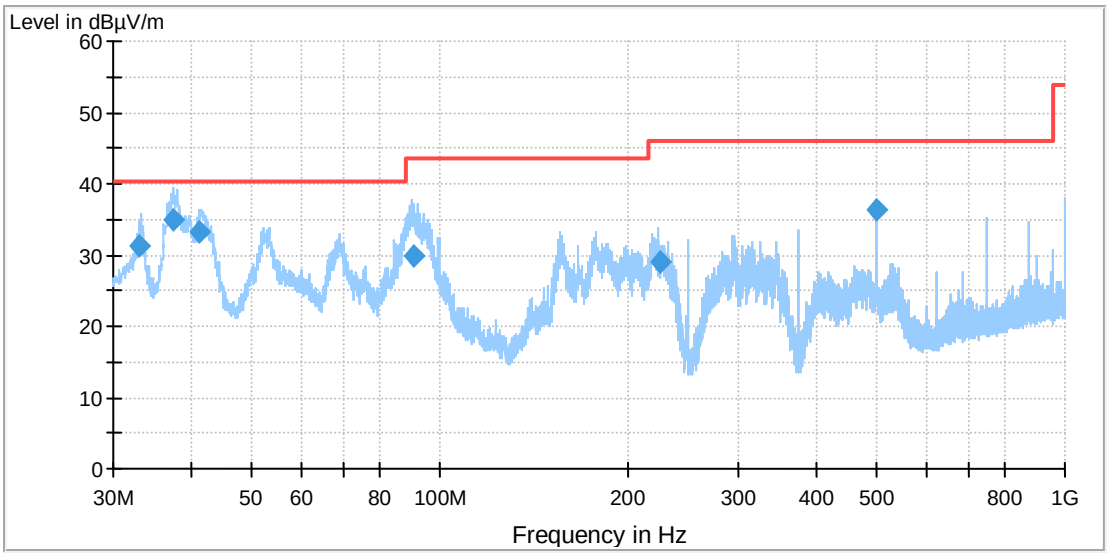


Measurement Result: QP Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
42.892065	33.6	-26.0	40.0	6.4	100.0	267.0	V
75.326000	23.8	-32.7	40.0	16.2	100.0	206.0	V
155.667000	26.6	-30.8	43.5	16.9	100.0	2.0	V
250.016000	36.5	-25.7	46.0	9.5	126.0	136.0	H
500.005500	38.0	-18.6	46.0	8.0	175.0	192.0	H
1000.000000	42.0	-9.9	53.9	11.9	100.0	116.0	H

Note:
Margin=Limit-Level
Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)
The reading level is used to calculate by software which is not shown in the sheet.

8.1.2 Radiated Disturbance of TC2 (30 MHz – 1GHz)

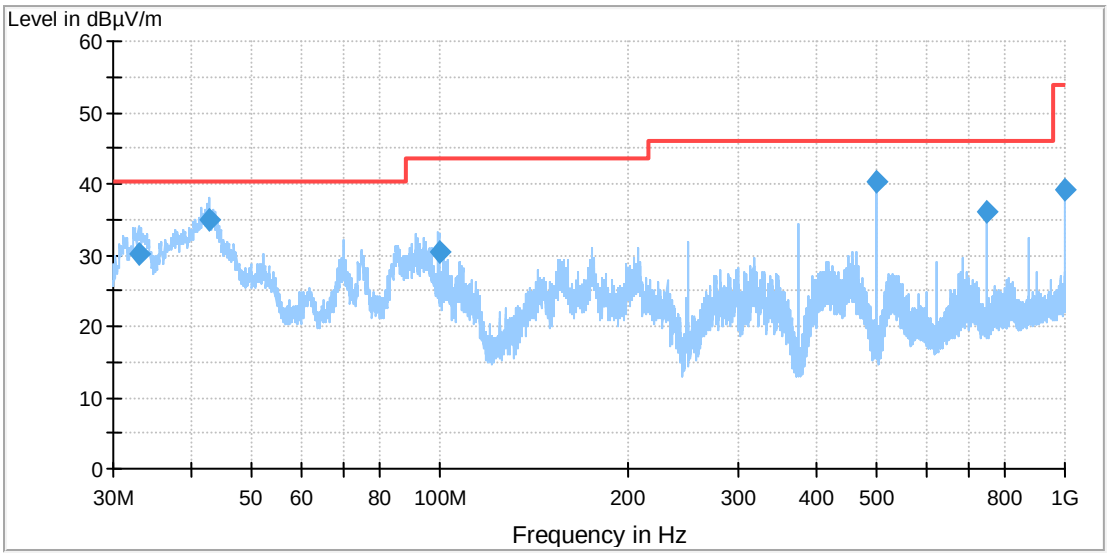


Measurement Result: QP Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
33.108990	31.2	-27.3	40.0	8.8	100.0	203.0	V
37.394310	35.0	-26.6	40.0	5.0	100.0	141.0	V
41.271540	33.3	-26.0	40.0	6.7	100.0	135.0	V
90.690500	29.8	-28.3	43.5	13.7	144.0	79.0	V
224.412000	29.0	-26.7	46.0	17.0	100.0	42.0	H
499.993500	36.4	-18.6	46.0	9.6	176.0	-2.0	H

Note:
Margin=Limit-Level
Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)
The reading level is used to calculate by software which is not shown in the sheet.

8.1.3 Radiated Disturbance of TC3 (30 MHz – 1GHz)

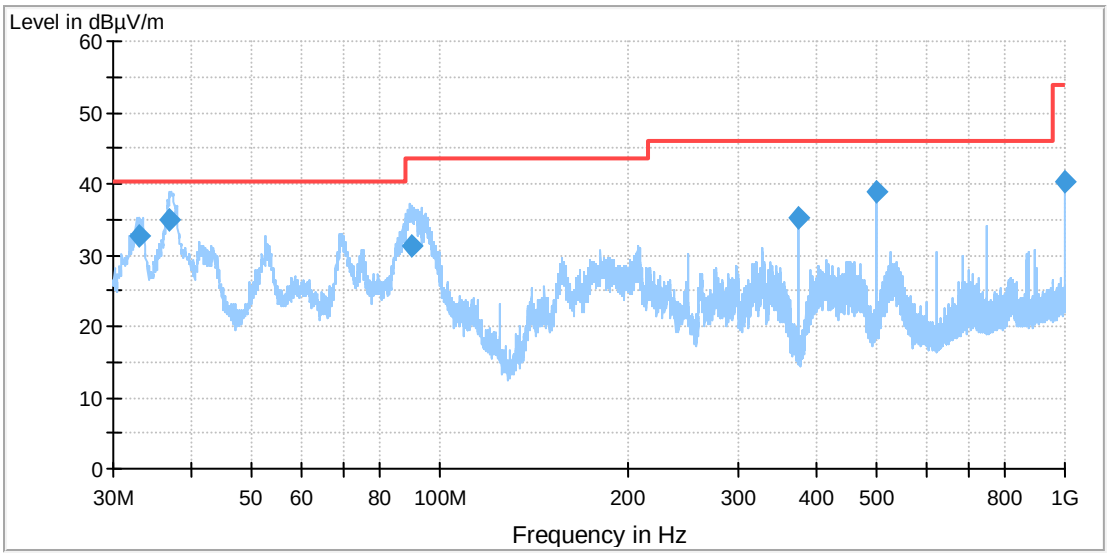


Measurement Result: QP Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
33.000900	30.2	-27.3	40.0	9.8	100.0	274.0	V
42.687945	34.8	-26.0	40.0	5.2	100.0	314.0	V
99.705500	30.5	-27.1	43.5	13.0	100.0	224.0	V
500.005500	40.2	-18.6	46.0	5.8	175.0	6.0	H
749.970500	35.9	-13.2	46.0	10.1	100.0	67.0	H
1000.000000	39.2	-9.9	53.9	14.7	100.0	59.0	H

Note:
Margin=Limit-Level
Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)
The reading level is used to calculate by software which is not shown in the sheet.

8.1.4 Radiated Disturbance of TC4 (30 MHz – 1GHz)

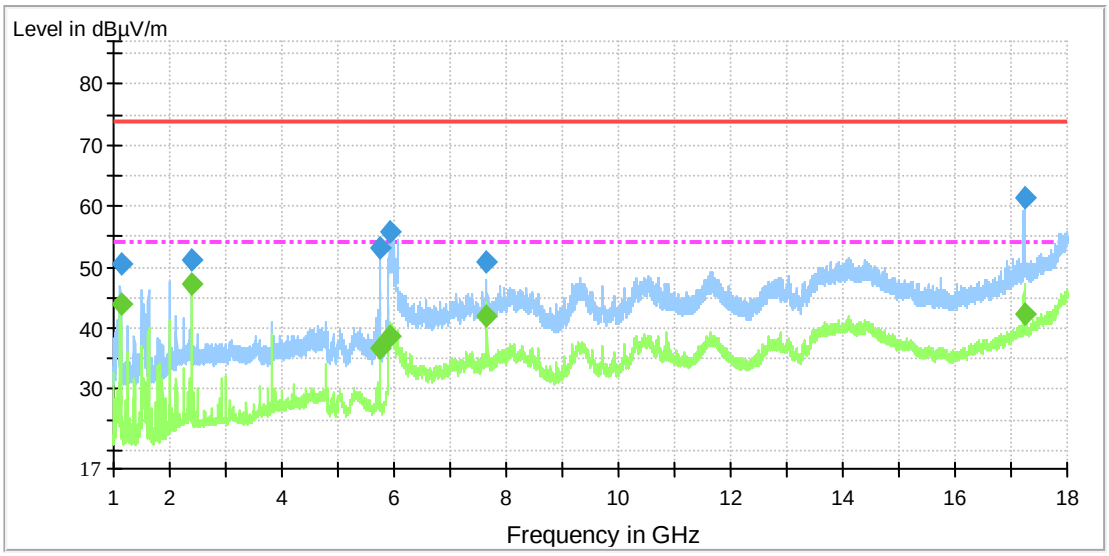


Measurement Result: QP Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
32.994175	32.7	-27.3	40.0	7.3	100.0	261.0	V
36.842175	35.0	-26.7	40.0	5.0	114.0	274.0	V
90.006500	31.3	-28.5	43.5	12.2	126.0	11.0	V
375.010500	35.1	-21.8	46.0	10.9	100.0	180.0	H
499.993500	38.9	-18.6	46.0	7.1	187.0	15.0	H
1000.000000	40.2	-9.9	53.9	13.7	100.0	69.0	H

Note:
Margin=Limit-Level
Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain)
The reading level is used to calculate by software which is not shown in the sheet.

8.1.5 Radiated Disturbance of TC1 and TC2 (1 – 18GHz)



Measurement Result: PK Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
1125.043167	50.5	-12.7	73.9	23.4	100.0	139.0	V
2400.068167	51.3	-7.5	73.9	22.6	100.0	94.0	V
5742.121333	53.0	-0.5	73.9	20.9	128.0	8.0	V
5921.930667	55.9	0.1	73.9	18.0	122.0	11.0	V
7660.133333	50.7	5.4	73.9	23.2	136.0	37.0	V
17233.952833	61.3	19.7	73.9	12.6	100.0	187.0	V

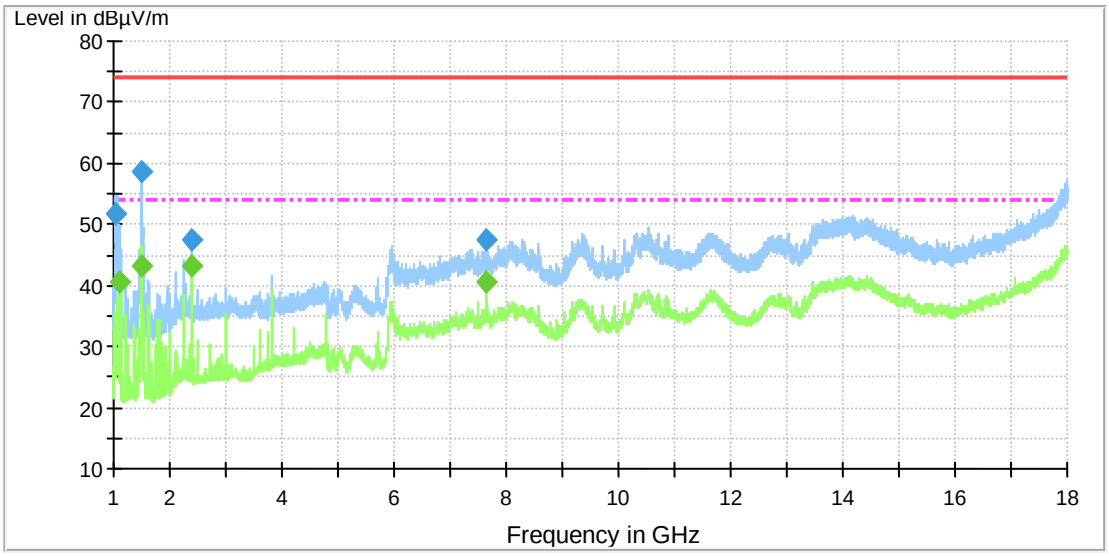
Measurement Result: AV Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
1125.043167	44.1	-12.7	53.9	9.8	100.0	136.0	V
2400.068167	47.1	-7.5	53.9	6.8	100.0	94.0	V
5741.812833	36.6	-0.5	53.9	17.3	100.0	3.0	V
5925.564667	38.6	0.1	53.9	15.3	122.0	10.0	V
7660.133333	42.1	5.4	53.9	11.8	138.0	36.0	V
17233.952833	42.5	19.7	53.9	11.4	100.0	181.0	V

Note:

1. Margin=Limit-Level
   Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain).The reading level is used to calculate by software which is not shown in the sheet.
2. The test configuration TC1 and TC2 were tested, but the worse result was supplied.

8.1.6 Radiated Disturbance of TC3 and TC4 (1 – 18GHz)



Measurement Result: PK Detector

Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
1047.889833	51.8	-12.8	73.9	22.1	100.0	257.0	H
1499.901000	58.8	-11.4	73.9	15.1	131.0	203.0	V
2400.068167	47.6	-7.5	73.9	26.3	100.0	97.0	V
7660.133333	47.3	5.4	73.9	26.6	106.0	351.0	V

Measurement Result: AV Detector

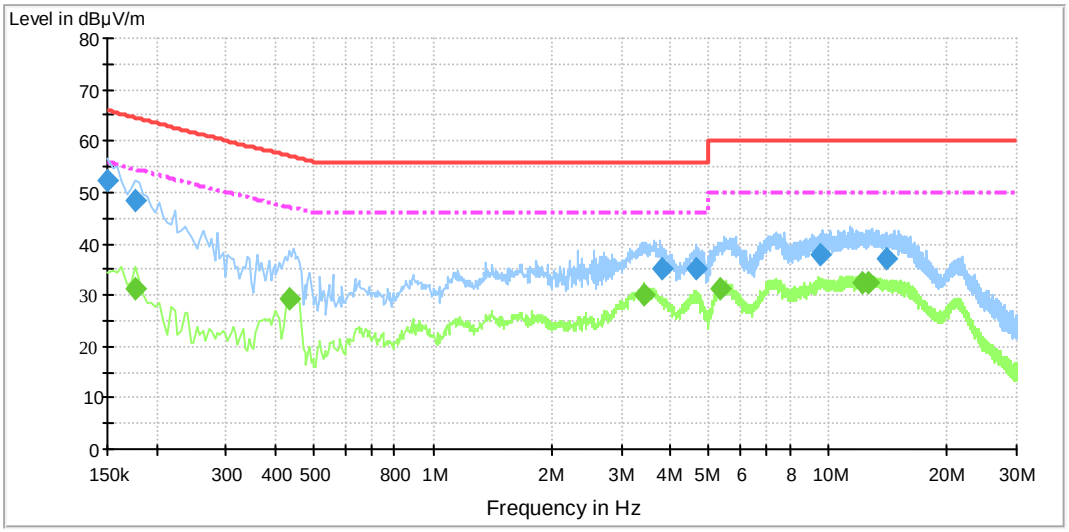
Frequency (MHz)	Level (dBµV/m)	Transd (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
1124.807333	40.5	-12.7	53.9	13.4	106.0	139.0	V
1499.901000	43.1	-11.4	53.9	10.8	143.0	207.0	V
2400.068167	43.3	-7.5	53.9	10.6	100.0	99.0	V
7660.133333	40.7	5.4	53.9	13.2	100.0	352.0	V

Note:

1. Margin=Limit-Level
   Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain).The reading level is used to calculate by software which is not shown in the sheet.
2. The test configuration TC3 and TC4 were tested, but the worse result was supplied.

8.2 Conducted Disturbance

8.2.1 AC Power Port Test Data of TC1 and TC3 (HUNTKEY)



Measurement Result: QP Detector

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.150000	52.2	10.6	66.0	13.8	L3	-
0.177000	48.5	10.6	64.5	16.0	L3	-
3.785138	35.2	10.4	56.0	20.8	L3	-
4.617818	35.0	10.4	56.0	21.0	N	-
9.569910	37.8	10.5	60.0	22.2	N	-
13.971518	37.2	10.4	60.0	22.8	N	-

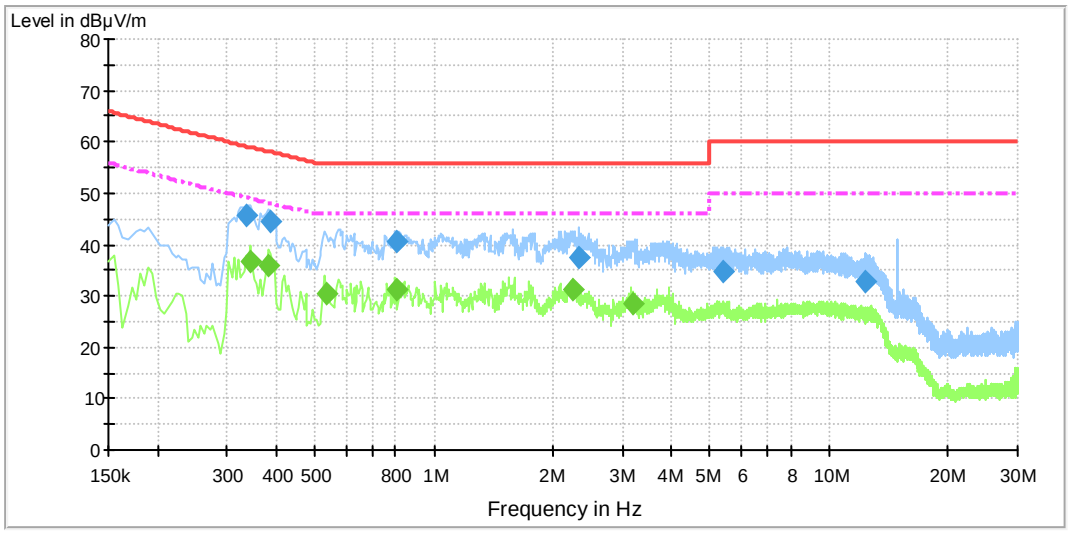
Measurement Result: AV Detector

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.177000	31.1	10.6	54.5	23.4	N	-
0.433500	29.2	10.4	47.1	17.9	N	-
3.425040	30.2	10.4	46.0	15.8	L3	-
5.334195	31.1	10.5	50.0	18.9	N	-
12.230152	32.5	10.4	50.0	17.5	N	-
12.641790	32.6	10.4	50.0	17.4	N	-

Note:

1. Margin=Limit-Level
   Level= Reading level+ Transd (cable loss + correction factor). The reading level is used to calculate by software which is not shown in the sheet.
2. The test configuration TC1 and TC3 were tested, but the worse result was supplied.

8.2.2 AC Power Port Test Data of TC1 and TC3 (FUHUA)



Measurement Result: QP Detector

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.334500	45.7	10.5	59.2	13.5	N	-
0.384001	44.6	10.5	58.1	13.5	N	-
0.802500	40.6	10.4	56.0	15.4	L3	-
2.335118	37.5	10.4	56.0	18.5	L3	-
5.370038	34.8	10.4	60.0	25.2	L3	-
12.409095	32.7	10.4	60.0	27.3	N	-

Measurement Result: AV Detector

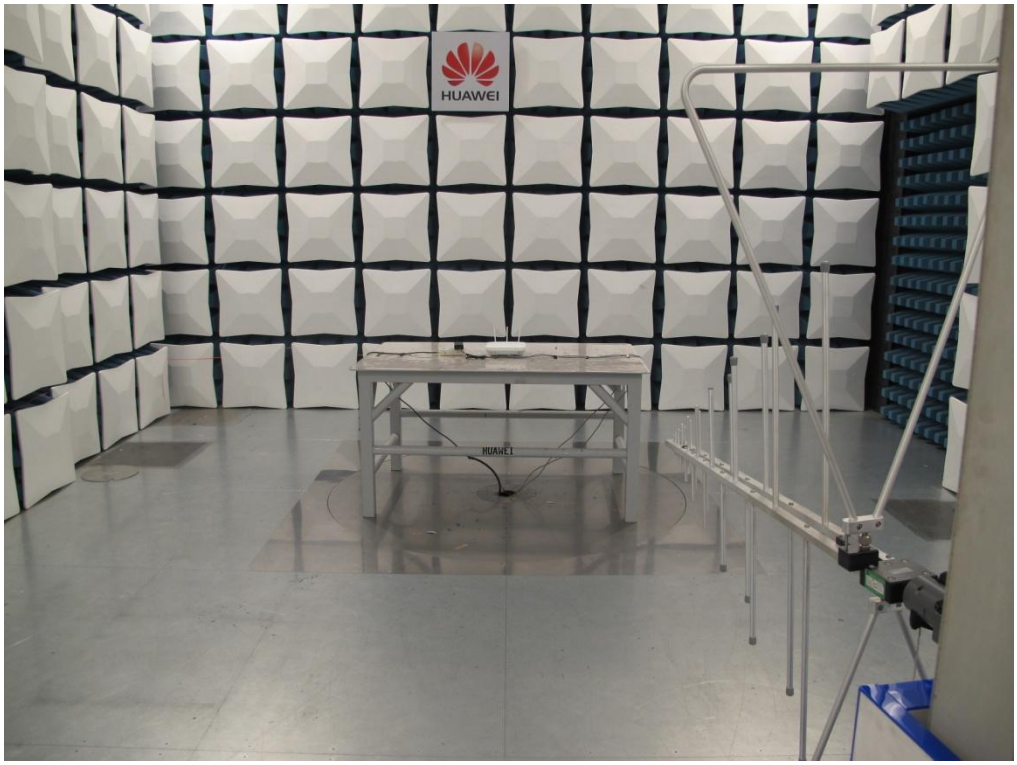
Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.343500	36.9	10.5	48.9	12.0	N	-
0.379499	35.8	10.5	48.1	12.3	N	-
0.532499	30.3	10.4	46.0	15.7	L3	-
0.802500	31.3	10.4	46.0	14.7	L3	-
2.244788	31.1	10.4	46.0	14.9	L3	-
3.176175	28.7	10.4	46.0	17.3	N	-

Note:

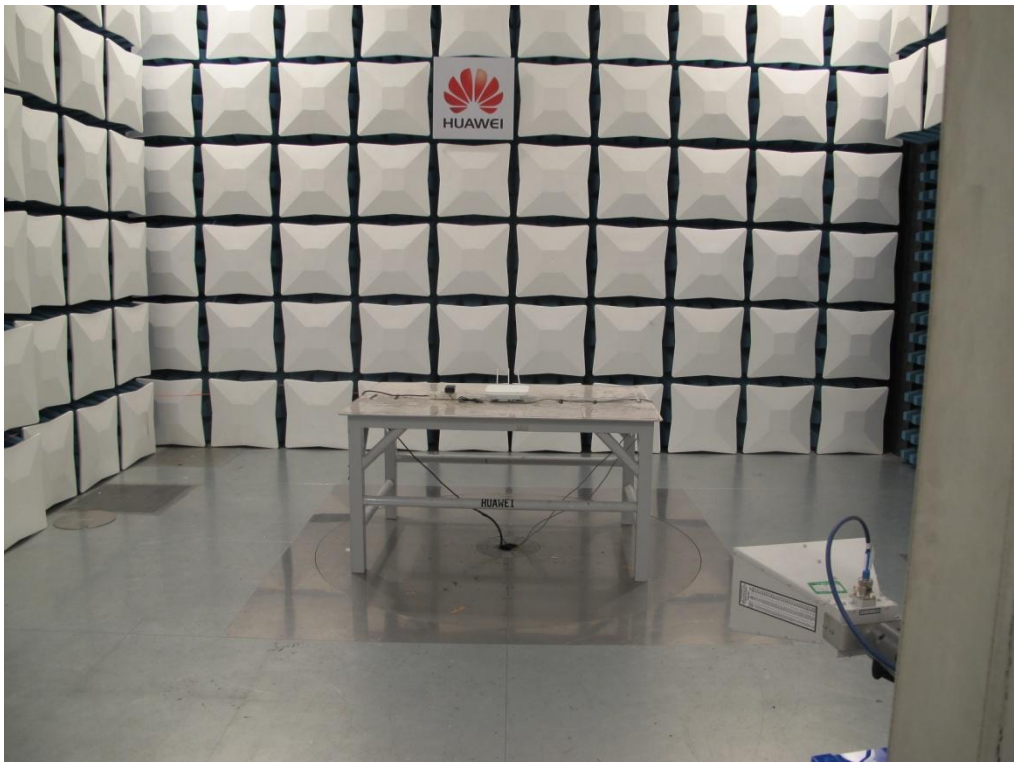
1. Margin=Limit-Level
   Level= Reading level+ Transd (cable loss + correction factor). The reading level is used to calculate by software which is not shown in the sheet.
2. The test configuration TC1 and TC3 were tested, but the worse result was supplied.

9 Photographs of Test Set-up

9.1 Radiated Emission



Radiated emission for 30 MHz-1 GHz



Radiated emission for 1GHz to 18GHz

9.2 Conducted Emission

Conducted emissions of AC power port

Appendix: Abbreviation

Table 14 Abbreviation

Abbreviation	Full Name
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EUT	Equipment Under Test
AE	Auxiliary Equipment
AC	Alternate Current
DC	Direct Current
NSA	Normalized Site Attenuation
LISN	Line Impedance Stabilization Network
TC	Test configuration
N/A	Not Applicable

END