



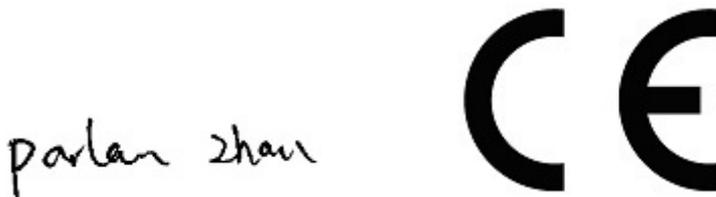
TEST REPORT

Application No.: SHEM1912020057AT
Applicant: Shenzhen Kean Digital Co., Ltd.
Address of Applicant: Room 1001, Ru jun Mansion, No.105, Center Rd, Maantang Community, Bantian Subdistrict, Longgang District, Shenzhen, Guangdong, China
Manufacturer: Shenzhen Kean Digital Co., Ltd.
Address of Manufacturer: Room 1001, Ru jun Mansion, No.105, Center Rd, Maantang Community, Bantian Subdistrict, Longgang District, Shenzhen, Guangdong, China
Factory: 1. Hangzhou Hikvision Technology Co., Ltd. 2. Hangzhou Hikvision Electronics Co., Ltd. 3. Chongqing Hikvision technology Co., LTD.
Address of Factory: 1. No. 700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China 2. No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China. 3. No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing.
Equipment Under Test (EUT):
EUT Name: Network Camera
Model No.: Refer to page 2
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : EN 55032:2015, EN 50130-4:2011 +A1:2014 EN 61000-3-2:2014, EN 61000-3-3:2013
Date of Receipt: 2017-12-14&2018-04-17
Date of Test: 2017-12-14 to 2017-12-21& 2018-04-17 to 2018-04-18
Date of Issue: 2020-01-02

Table with 2 columns: Test Result, Pass\*

\* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Parlan Zhan
E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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## Model No.:

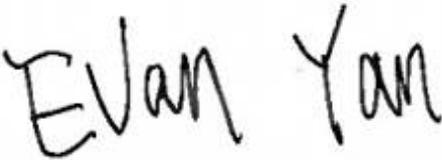
I51DJ, I51DB, I51DC, I51DD, I51DE, I51DF, I51DG, I51DH, I51DI, I51DL, I51DM, I51DN, I51DP, I51DK, I51DQ, I51DR, I51DS, I51DT, I51DU, I51DV, I51DW, I51DX, I51DY, I51DZ, I51EB, I51EC, I91BD, I91BB, I91BG, I91BH, I91BI, I91BJ, I91BK, I91BL, I91BM, I91BN, I91BP, I91BQ, I91BR, I91BE, I91BC, I91BF, I91BS, I91BT, I91BU, I91BV, I91BW, I91BX, I91BY, I91BZ, I91DB, I91DC



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Revision Record			
Version	Description	Date	Remark
00	Co-license	2020-01-02	Based on SHEM181000926001

Authorized for issue by:			
			
		<b>Evan Yan /Project Engineer</b>	
			
		<b>Bruce Tang /Reviewer</b>	



## 2 Test Summary

<b>Emission Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN 55032:2015	EN 55032:2015	Class B	Pass
Asymmetric Mode Conducted Emissions (150kHz-30MHz)	EN 55032:2015	EN 55032:2015	Class B	Pass
Radiated Emissions (30MHz-1GHz)	EN 55032:2015	EN 55032:2015	Class B	Pass
Radiated Emissions (above 1GHz)	EN 55032:2015	EN 55032:2015	Class B	Pass
Harmonic Current Emission	EN 61000-3-2:2014	EN 61000-3-2:2014	Class A	N/A
Voltage Fluctuations and Flicker	EN 61000-3-3:2013	EN 61000-3-3:2013	Clause 5 of EN 61000-3-3	Pass

N/A: Please refer to Section 6.5 for details

<b>Immunity Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
Electrostatic Discharge	EN 50130-4:2011 +A1:2014	EN 61000-4-2:2009	6kV Contact Discharge 2,4,8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port	EN 50130-4:2011 +A1:2014	EN 61000-4-4:2012	2kV/5/50ns Tr/Td 100kHz Repetition Frequency	Pass
Electrical Fast Transients/Burst at Signal Port	EN 50130-4:2011 +A1:2014	EN 61000-4-4:2012	1kV/5/50ns Tr/Td 100kHz Repetition Frequency	Pass
Surge at Power Port	EN 50130-4:2011 +A1:2014	EN 61000-4-5:2014	1.2/50µs Tr/Td 0.5, 1kV Line to Line 0.5, 1, 2kV Line to Ground	Pass
Surge at Signal Port	EN 50130-4:2011 +A1:2014	EN 61000-4-5:2014	1.2/50µs Tr/Td 0.5, 1kV Line to Ground	Pass
Voltage Dips and Interruptions	EN 50130-4:2011 +A1:2014	EN 61000-4-11:2004	80 % UT for 25per 70 % UT for 25per 40 % UT for 10per 0 % UT for 25per UT is Supply Voltage	Pass
Mains Supply Voltage Variations-Conditioning	EN 50130-4:2011 +A1:2014	EN 50130-4:2011+A1:2014	Unom+10% Unom-15%	Pass
Radiated Immunity(80MHz-2.7GHz)	EN 50130-4:2011 +A1:2014	EN 61000-4-3:2006 +A1:2008+A2:2010	10V/m, 80%, 1kHz sinusoidal Amp. Mod.	Pass
Conducted Immunity at Power Port (150kHz-100MHz)	EN 50130-4:2011 +A1:2014	EN 61000-4-6:2014	10Vrms (emf), 80%, 1kHz sinusoidal Amp. Mod.	Pass



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<b>Immunity Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
Conducted Immunity at Signal Port (150kHz-100MHz)	EN 50130-4:2011 +A1:2014	EN 61000-4-6:2014	10Vrms (emf),80%,1kHz sinusoidal Amp. Mod.	Pass

<b>InternalSource</b>	<b>UpperFrequency</b>
Below 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 times the highest frequency or 6 GHz, whichever is less

**Note1:**This report was an additional report copied from the report SHEM181000926001, just changing the model number, trade name and applicant, Since the electrical circuit design, layout, components used and internal wiring for the model "refer to page 2" in this report was exactly the same as the model "DS-2CD2043G0-I, DS-2CD2063G0-I, DS-2CD2083G0-I" in the report SHEM181000926001.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC12V or PoE
Cable:	signal cable : 0.4m

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	±2.6dB (9kHz to 150kHz)
		±2.3dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	±1.9 dB (9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	±4.1 dB (150kHz to 30MHz)
4	Radiated Power	±3.0dB
5	Radiated emission	±4.4dB (30MHz-1GHz)
		±4.8dB (1GHz-6GHz)
		±5.2dB (6GHz-18GHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab  
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China  
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.5 Test Facility

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

• **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **NVLAP (Certificate No. 201034-0)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

• **FCC –Designation Number: CN5033**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB Identifier: CN0020.

• **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

#### 4.8 Monitoring of EUT for All Immunity Test

Visual: work status and video quality



## 5 Equipment List

For old model

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2016-12-29	2017-12-28
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2017-05-17	2018-05-16
Line impedance stabilization network	EMCO	3816/2	SHEM019-1	2016-12-29	2017-12-28
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2017-08-01	2018-07-31
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2016-12-29	2017-12-28
CE test Cable	/	/	CE01	2016-12-29	2017-12-28

Asymmetric Mode Conducted Emissions (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2016-12-29	2017-12-28
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2017-05-17	2018-05-16
8-wire ISN cat 5	SCHWARZBECK	CAT5 8158	SHEM137-1	2016-12-29	2017-12-28
8-wire ISN cat 3	SCHWARZBECK	CAT3 8158	SHEM137-2	2016-12-29	2017-12-28
8-wire ISNcat 6	SCHWARZBECK	NTFM8158	SHEM137-3	2016-12-29	2017-12-28
2-Draht ISN	Schwarzbeck - Mess-Elektronik	NTFM 8131	SHEM139-1	2016-12-29	2017-12-28
CE test Cable	/	/	CE01	2016-12-29	2017-12-28

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2017-02-28	2018-02-27
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21
Low Amplifier	CLAVIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21



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Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Double ridged broadband horn ANTENNA	SCHWARZBECK	BBHA9120D	SHEM050-1	2017-01-14	2018-01-13
High-amplifier	SCHWARZBECK	SCU-F0118-G40-BZ4-CS	SHEM050-2	2017-01-14	2018-01-13
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21

Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Harmonic&Flicker analyzer	AMETEK	PACS-1	SHEM024-2	2017-08-22	2018-08-21
AC Power Source 5KVA	AMETEK	5001iX	SHEM025-2	2017-08-22	2018-08-21

Electrostatic Discharge					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electrostatic Discharge Simulator	TESEQ	NSG 437	SHEM041-1	2017-09-26	2018-09-25

Electrical Fast Transients/Burst at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2016-12-29	2017-12-28

Electrical Fast Transients/Burst at Signal Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2016-12-29	2017-12-28
Capacitive coupling clamp	EM test	HFK	SHEM026-2	2017-08-12	2018-08-11
Data coupling network 4 line	EM test	CNV 504	SHEM026-3	2017-08-12	2018-08-11

Surge at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2016-12-29	2017-12-28

Surge at Signal Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2016-12-29	2017-12-28
Data coupling network 4 line	EM test	CNV 504	SHEM026-3	2017-08-12	2018-08-11



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Voltage Dips and Interruptions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2016-12-29	2017-12-28

Mains Supply Voltage Variations-Conditioning					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2016-12-29	2017-12-28

Radiated Immunity(80MHz-2.7GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2017-09-26	2018-09-25
Power Meter	Rohde & Schwarz	NRP	SHEM057-1	2016-12-29	2017-12-28
Power meter sensor	Rohde & Schwarz	NRP-Z91	SHEM057-2	2016-12-29	2017-12-28
Antenna	SCHWARZBECK	STLP9128D	SHEM130-1	N/A	N/A
Antenna	SCHWARZBECK	STLP9149	SHEM131-1	N/A	N/A
Amplifier	MILMEGA	80RF1000-250	SHEM132-1	N/A	N/A
Amplifier	MILMEGA	AS0840-55-55	SHEM133-1	N/A	N/A
Power meter sensor	Rohde & Schwarz	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
ElectroMagnetic Field Probe	ETS-Lindgren	HI-6113	SHEM134-1	2017-09-07	2018-09-06
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2018-07-21

Conducted Immunity at Power Port (150kHz-100MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2017-09-26	2018-09-25
PAMP Conducted RF test system	HAEFFLY	PAMP250	SHEM023-1	2016-12-29	2017-12-28
6dB Attenuator	HUAXIANG	TST-150-761	SHEM151-1	N/A	N/A
CDN impedance and K-factor	LUTHI	L-801 M1	SHEM023-5	2016-12-29	2017-12-28
CDN impedance and K-factor	LUTHI	L-801 M2/M3	SHEM023-6	2016-12-29	2017-12-28
Shielding Room	ZHONGYU	5*5*3M	SHEM079-6	2016-12-29	2017-12-28



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<b>Conducted Immunity at Signal Port (150kHz-100MHz)</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2017-09-26	2018-09-25
PAMP Conducted RF test system	HAEFFLY	PAMP250	SHEM023-1	2016-12-29	2017-12-28
6dB Attenuator	HUAXIANG	TST-150-761	SHEM151-1	N/A	N/A
Coupling clamp	LIITHI	EM 101	SHEM027-1	2015-05-03	2018-05-02
CDN impedance and K-factor	LUTHI	L-801 M1	SHEM023-5	2016-12-29	2017-12-28
CDN impedance and K-factor	LUTHI	L-801 M2/M3	SHEM023-6	2016-12-29	2017-12-28

<b>General used equipment</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2017-03-03	2018-03-02
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2017-09-13	2018-09-12
Digital Multimeter	FLUKE	17B	SHEM043-5	2017-09-13	2018-09-12
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2017-01-29	2018-01-28

### For new model

<b>Conducted Emissions at Mains Terminals (150kHz-30MHz)</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2017-12-20	2018-12-19
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
Line impedance stabilization network	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2017-12-20	2020-12-19
CE test Cable	/	/	CE01	2017-12-26	2018-12-25

<b>Asymmetric Mode Conducted Emissions (150kHz-30MHz)</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2017-12-20	2018-12-19
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
8-wire ISN cat 5	SCHWARZBECK	CAT5 8158	SHEM137-1	2017-12-20	2018-12-19
8-wire ISN cat 3	SCHWARZBECK	CAT3 8158	SHEM137-2	2017-12-20	2018-12-19
8-wire ISNcat 6	SCHWARZBECK	NTFM8158	SHEM137-3	2017-12-26	2018-12-25
2-Draht ISN	Schwarzbeck - Mess-Elektronik	NTFM 8131	SHEM139-1	2017-12-20	2018-12-19
CE test Cable	/	/	CE01	2017-12-26	2018-12-25



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Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
Low Amplifier	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2017-09-26	2018-09-25
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A
Double ridged broadband horn ANTENNA	SCHWARZBECK	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
High-amplifier	SCHWARZBECK	SCU-F0118-G40-BZ4-CS	SHEM050-2	2017-12-20	2018-12-19
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21

Harmonic&Voltage Fluctuations and Flicker					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Harmonic&Flicker analyzer	AMETEK	PACS-1	SHEM024-2	2017-08-22	2018-08-21
AC Power Source 5KVA	AMETEK	5001iX	SHEM025-2	2017-08-22	2018-08-21

Electrostatic Discharge					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Electrostatic Discharge Simulator	TESEQ	NSG 437	SHEM041-1	2017-09-26	2018-09-25

Electrical Fast Transients/Burst at Power Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2017-12-20	2018-12-19

Electrical Fast Transients/Burst at Signal Port					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2017-12-20	2018-12-19
Capacitive coupling clamp	EM test	HFK	SHEM026-2	2017-12-20	2018-12-19
Data coupling network 4 line	EM test	CNV 504	SHEM026-3	2017-12-20	2018-12-19



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<b>Surge at Power Port</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2017-12-20	2018-12-19

<b>Surge at Signal Port</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2017-12-20	2018-12-19
Data coupling network 4 line	EM test	CNV 504	SHEM026-3	2017-12-20	2018-12-19

<b>Voltage Dips and Interruptions</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2017-12-20	2018-12-19

<b>Mains Supply Voltage Variations-Conditioning</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Immunity Test System	EMC PARTNER	TRA3000 F-S-D-V	SHEM163-1	2017-12-20	2018-12-19

<b>Radiated Immunity(80MHz-2.7GHz)</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2017-09-26	2018-09-25
Power Meter	Rohde & Schwarz	NRP	SHEM057-1	2017-12-20	2018-12-19
Power meter sensor	Rohde & Schwarz	NRP-Z91	SHEM057-2	2017-12-20	2018-12-19
Antenna	SCHWARZBECK	STLP9128D	SHEM130-1	N/A	N/A
Antenna	SCHWARZBECK	STLP9149	SHEM131-1	N/A	N/A
Amplifier	MILMEGA	80RF1000-250	SHEM132-1	N/A	N/A
Amplifier	MILMEGA	AS0840-55-55	SHEM133-1	N/A	N/A
Power meter sensor	Rohde & Schwarz	NRP-Z22	SHEM136-1	2017-12-19	2018-12-18
ElectroMagnetic Field Probe	ETS-Lindgren	HI-6113	SHEM134-1	2017-12-19	2018-12-18
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21

<b>Conducted Immunity at Power Port (150kHz-100MHz)</b>					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2017-09-26	2018-09-25
PAMP Conducted RF test system	HAEFFLY	PAMP250	SHEM023-1	2017-12-20	2018-12-19
6dB Attenuator	HUAXIANG	DTS50-6dB-1G-A	SHEM123-2	2017-12-25	2018-12-24
CDN impedance and K-factor	LUTHI	L-801 M1	SHEM023-5	2017-12-20	2018-12-19
CDN impedance and K-factor	LUTHI	L-801 M2/M3	SHEM023-6	2017-12-20	2018-12-19
Shielding Room	ZHONGYU	5*5*3M	SHEM079-6	2016-12-29	2019-12-28



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<b>Conducted Immunity at Signal Port (150kHz-100MHz)</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2017-09-26	2018-09-25
PAMP Conducted RF test system	HAEFFLY	PAMP250	SHEM023-1	2017-12-20	2018-12-19
6dB Attenuator	HUAXIANG	DTS50-6dB-1G-A	SHEM123-2	2017-12-25	2018-12-24
Coupling clamp	LIITHI	EM 101	SHEM027-1	2017-12-20	2018-12-19
CDN impedance and K-factor	LUTHI	L-801 M1	SHEM023-5	2017-12-20	2018-12-19
CDN impedance and K-factor	LUTHI	L-801 M2/M3	SHEM023-6	2017-12-20	2018-12-19

<b>General used equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Inventory No</b>	<b>Cal Date</b>	<b>Cal Due Date</b>
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2018-01-25	2019-01-24
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2017-09-13	2018-09-12
Digital Multimeter	FLUKE	17B	SHEM043-3	2017-09-11	2018-09-10
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2017-12-20	2018-12-19

## 6 Emission Test Results

### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	EN 55032:2015
Test Method:	EN 55032:2015
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

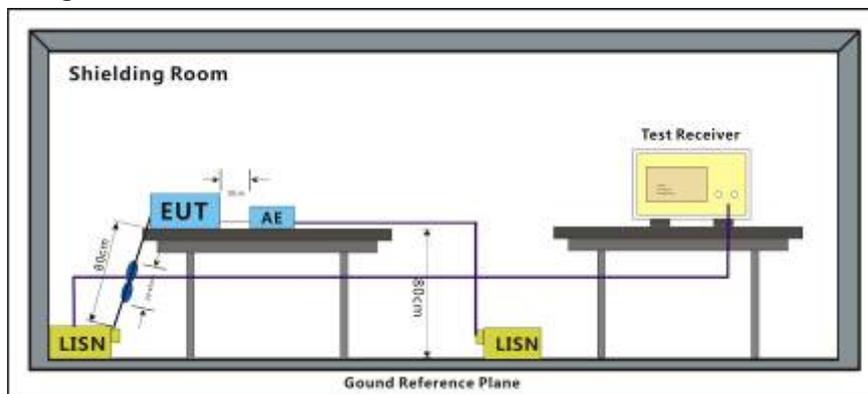
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

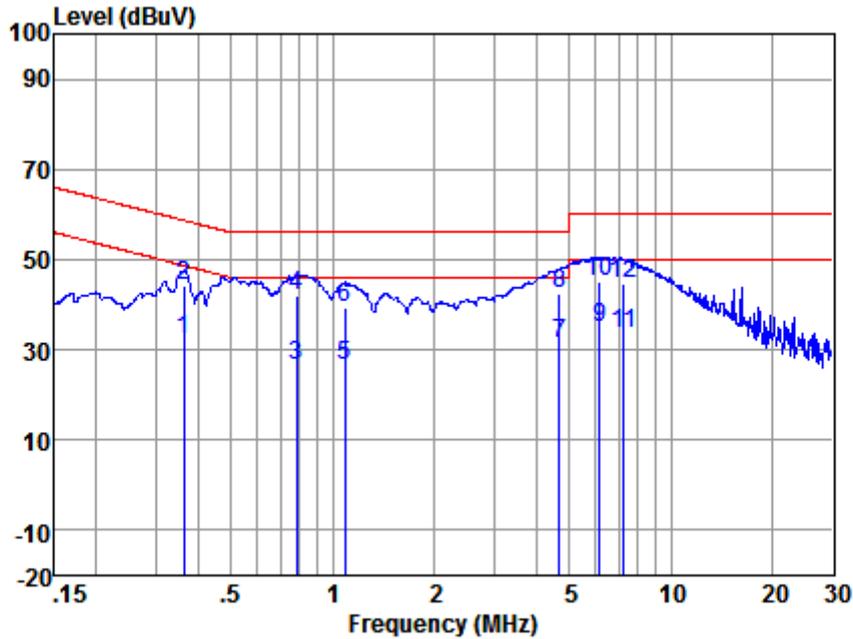
Notes : Emission Level=Read Level + LISN Factor + Cable Loss



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For old model  
Mode:a; Line:Live Line



Site : chamber  
Condition : LISN-L-2017  
EUT/Project No: 8532IT  
Test mode : a

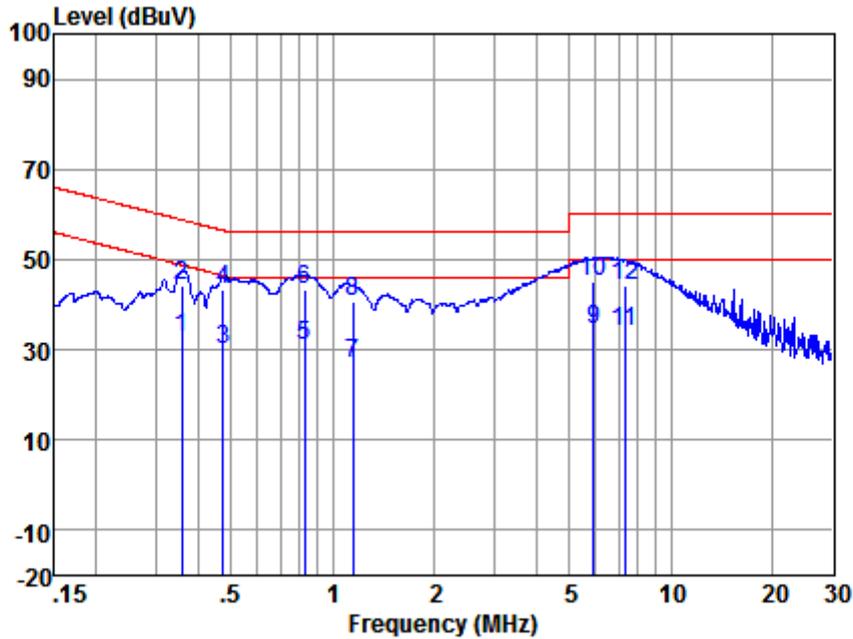
	Read	LISN	Cable	Limit	Over		
Freq	Level	Factor	Loss	Line	Limit	Remark	
MHz	dBuV	dB	dB	dBuV	dB		
1	0.361	22.22	0.11	9.81	32.14	48.69	-16.55 Average
2	0.361	34.42	0.11	9.81	44.34	58.69	-14.35 QP
3	0.779	16.45	0.11	9.83	26.39	46.00	-19.61 Average
4	0.779	31.95	0.11	9.83	41.89	56.00	-14.11 QP
5	1.088	16.74	0.11	9.84	26.69	46.00	-19.31 Average
6	1.088	29.39	0.11	9.84	39.34	56.00	-16.66 QP
7	4.696	21.57	0.11	9.86	31.54	46.00	-14.46 Average
8	4.696	32.67	0.11	9.86	42.64	56.00	-13.36 QP
9	6.153	24.83	0.11	9.86	34.80	50.00	-15.20 Average
10	6.153	34.97	0.11	9.86	44.94	60.00	-15.06 QP
11	7.252	23.77	0.11	9.86	33.74	50.00	-16.26 Average
12	7.252	34.53	0.11	9.86	44.50	60.00	-15.50 QP



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Mode:a; Line:Neutral Line



Site : chamber  
Condition : LISN-N-2017  
EUT/Project No: 8532IT  
Test mode : a

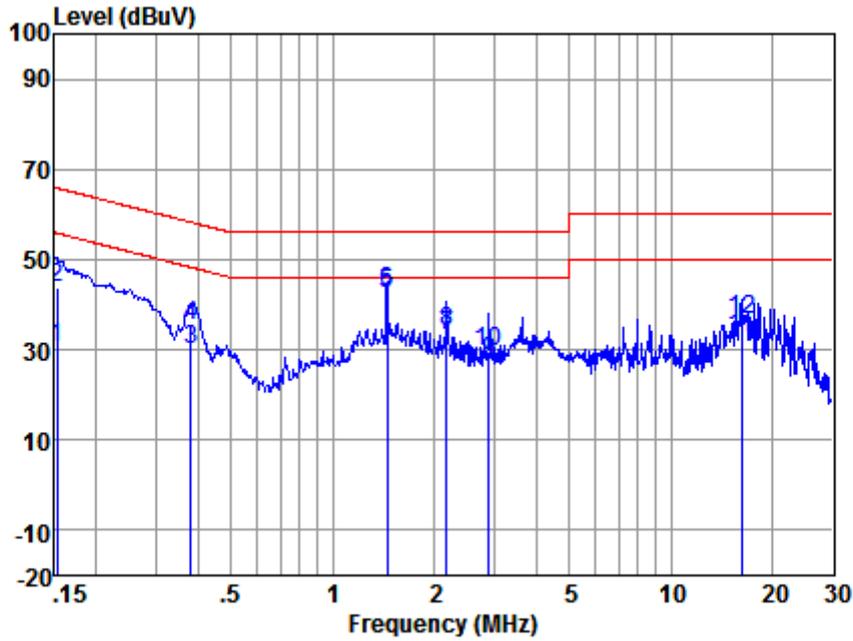
	Read	LISN	Cable	Limit	Over		
Freq	Level	Factor	Loss	Line	Limit	Remark	
MHz	dBuV	dB	dB	dBuV	dB		
1	0.358	22.89	0.11	9.81	32.81	48.78	-15.97 Average
2	0.358	34.31	0.11	9.81	44.23	58.78	-14.55 QP
3	0.474	20.31	0.11	9.82	30.24	46.45	-16.21 Average
4	0.474	33.18	0.11	9.82	43.11	56.45	-13.34 QP
5	0.826	20.92	0.11	9.83	30.86	46.00	-15.14 Average
6	0.826	33.36	0.11	9.83	43.30	56.00	-12.70 QP
7	1.147	16.91	0.11	9.84	26.86	46.00	-19.14 Average
8	1.147	30.83	0.11	9.84	40.78	56.00	-15.22 QP
9	5.898	24.41	0.13	9.86	34.40	50.00	-15.60 Average
10	5.898	35.08	0.13	9.86	45.07	60.00	-14.93 QP
11	7.329	24.09	0.13	9.86	34.08	50.00	-15.92 Average
12	7.329	34.22	0.13	9.86	44.21	60.00	-15.79 QP



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Mode:b; Line:Live Line



Site : chamber  
Condition : LISN-L-2017  
EUT/Project No: 8532IT  
Test mode : b

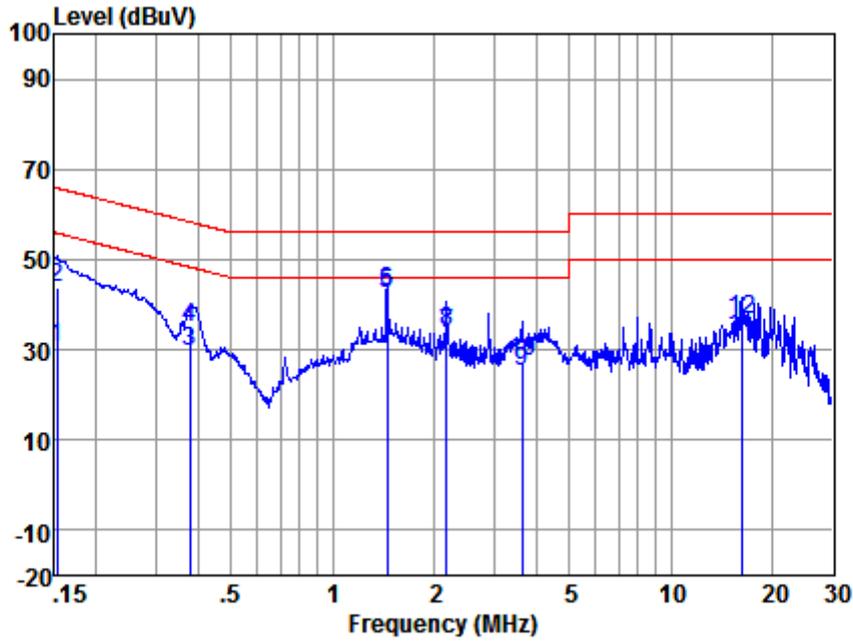
	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.152	20.71	0.11	9.81	30.63	55.87	-25.24	Average
2	0.152	34.03	0.11	9.81	43.95	65.87	-21.92	QP
3	0.381	20.10	0.11	9.81	30.02	48.25	-18.23	Average
4	0.381	25.53	0.11	9.81	35.45	58.25	-22.80	QP
5	1.449	32.33	0.11	9.84	42.28	46.00	-3.72	Average
6	1.449	32.89	0.11	9.84	42.84	56.00	-13.16	QP
7	2.167	23.07	0.12	9.85	33.04	46.00	-12.96	Average
8	2.167	24.18	0.12	9.85	34.15	56.00	-21.85	QP
9	2.900	17.48	0.12	9.85	27.45	46.00	-18.55	Average
10	2.900	19.48	0.12	9.85	29.45	56.00	-26.55	QP
11	16.226	22.43	0.16	10.02	32.61	50.00	-17.39	Average
12	16.226	26.38	0.16	10.02	36.56	60.00	-23.44	QP



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Mode:b; Line:Neutral Line



Site : chamber  
Condition : LISN-N-2017  
EUT/Project No: 8532IT  
Test mode : b

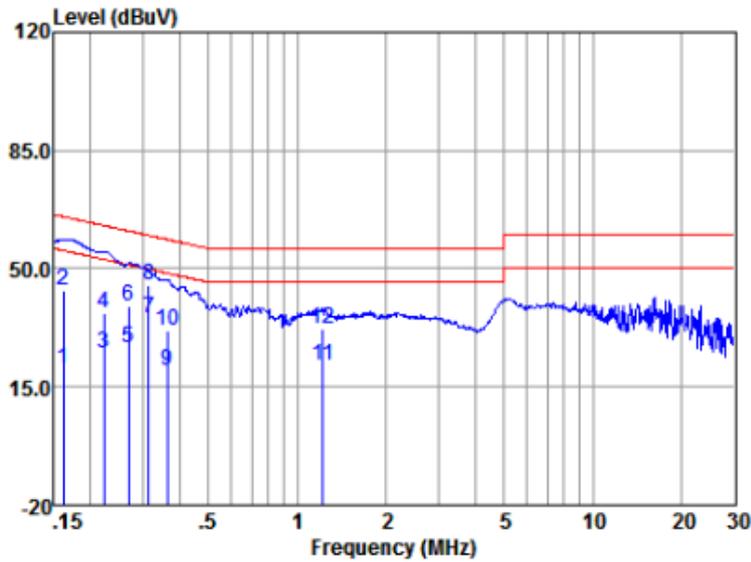
	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.152	20.53	0.12	9.81	30.46	55.87	-25.41	Average
2	0.152	33.93	0.12	9.81	43.86	65.87	-22.01	QP
3	0.379	19.51	0.11	9.81	29.43	48.30	-18.87	Average
4	0.379	24.82	0.11	9.81	34.74	58.30	-23.56	QP
5	1.449	32.63	0.12	9.84	42.59	46.00	-3.41	Average
6	1.449	32.88	0.12	9.84	42.84	56.00	-13.16	QP
7	2.167	23.55	0.12	9.85	33.52	46.00	-12.48	Average
8	2.167	24.15	0.12	9.85	34.12	56.00	-21.88	QP
9	3.623	15.15	0.13	9.85	25.13	46.00	-20.87	Average
10	3.623	17.40	0.13	9.85	27.38	56.00	-28.62	QP
11	16.226	22.48	0.18	10.02	32.68	50.00	-17.32	Average
12	16.226	26.38	0.18	10.02	36.58	60.00	-23.42	QP



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For new model  
Mode:c; Line:Live Line



LISN : LINE  
EUT/Project No : 2758IT  
Test Mode : c

	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	0.16	10.49	0.11	9.81	20.41	55.38	-34.97	Average
2	0.16	33.58	0.11	9.81	43.50	65.38	-21.88	QP
3	0.22	14.98	0.11	9.81	24.90	52.74	-27.84	Average
4	0.22	26.99	0.11	9.81	36.91	62.74	-25.83	QP
5	0.27	16.70	0.11	9.81	26.62	51.16	-24.54	Average
6	0.27	29.08	0.11	9.81	39.00	61.16	-22.16	QP
7	0.31	25.38	0.11	9.81	35.30	49.84	-14.54	Average
8	0.31	35.32	0.11	9.81	45.24	59.84	-14.60	QP
9	0.36	9.98	0.11	9.81	19.90	48.69	-28.79	Average
10	0.36	21.92	0.11	9.81	31.84	58.69	-26.85	QP
11	1.22	11.49	0.11	9.84	21.44	46.00	-24.56	Average
12	1.22	22.44	0.11	9.84	32.39	56.00	-23.61	QP

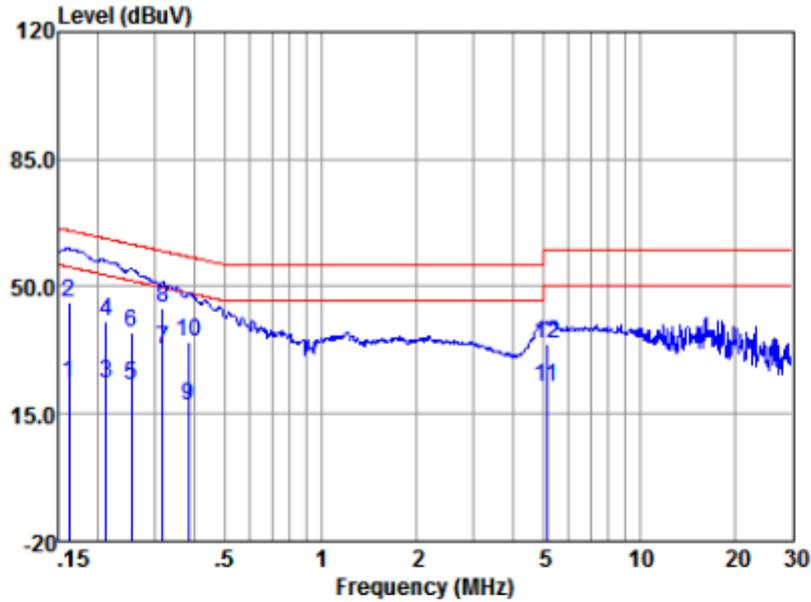
Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:c; Line:Neutral Line



LISN : NEUTRAL  
EUT/Project No : 2758IT  
Test Mode : c

	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	0.16	13.26	0.12	9.81	23.19	55.38	-32.19	Average
2	0.16	35.49	0.12	9.81	45.42	65.38	-19.96	QP
3	0.21	13.48	0.12	9.81	23.41	53.14	-29.73	Average
4	0.21	30.75	0.12	9.81	40.68	63.14	-22.46	QP
5	0.25	12.86	0.11	9.81	22.78	51.64	-28.86	Average
6	0.25	27.43	0.11	9.81	37.35	61.64	-24.29	QP
7	0.32	22.58	0.11	9.81	32.50	49.75	-17.25	Average
8	0.32	34.17	0.11	9.81	44.09	59.75	-15.66	QP
9	0.38	7.11	0.11	9.81	17.03	48.21	-31.18	Average
10	0.38	24.86	0.11	9.81	34.78	58.21	-23.43	QP
11	5.11	12.37	0.13	9.86	22.36	50.00	-27.64	Average
12	5.11	24.39	0.13	9.86	34.38	60.00	-25.62	QP

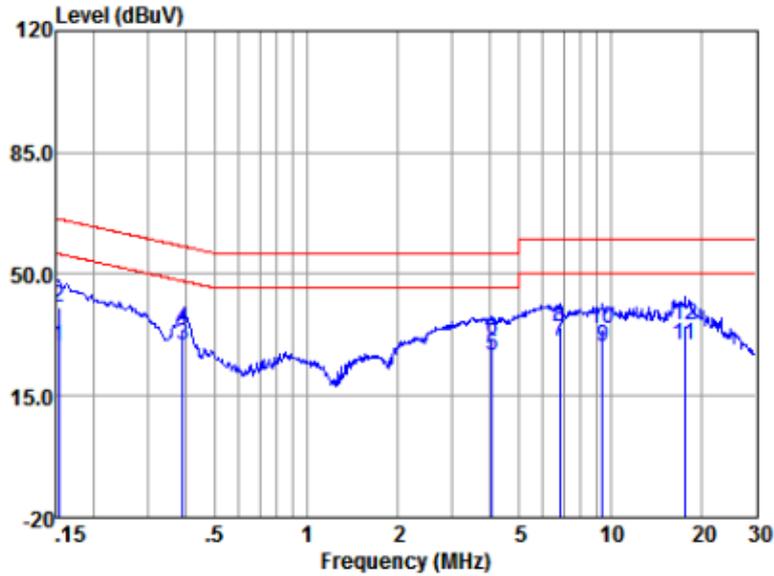
Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:d; Line:Live Line



LISN : LINE  
EUT/Project No : 2758IT  
Test Mode : d

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	18.99	0.11	9.81	28.91	55.87	-26.96	Average
2	0.15	30.74	0.11	9.81	40.66	65.87	-25.21	QP
3	0.39	19.80	0.11	9.81	29.72	48.03	-18.31	Average
4	0.39	24.44	0.11	9.81	34.36	58.03	-23.67	QP
5	4.07	16.77	0.11	9.85	26.73	46.00	-19.27	Average
6	4.07	21.36	0.11	9.85	31.32	56.00	-24.68	QP
7	6.84	20.56	0.11	9.86	30.53	50.00	-19.47	Average
8	6.84	24.94	0.11	9.86	34.91	60.00	-25.09	QP
9	9.40	18.87	0.10	9.87	28.84	50.00	-21.16	Average
10	9.40	24.35	0.10	9.87	34.32	60.00	-25.68	QP
11	17.66	19.29	0.17	10.03	29.49	50.00	-20.51	Average
12	17.66	25.22	0.17	10.03	35.42	60.00	-24.58	QP

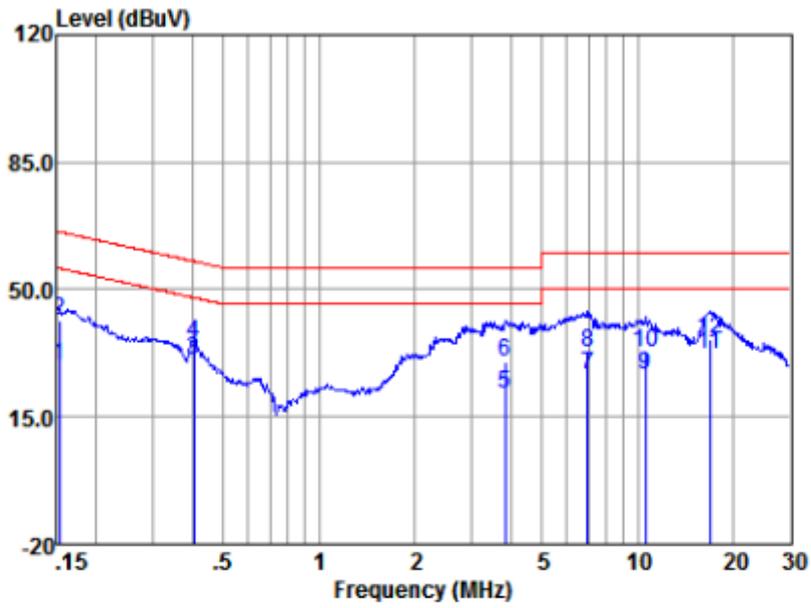
Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:d; Line:Neutral Line



LISN : NEUTRAL  
EUT/Project No : 2758IT  
Test Mode : d

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	19.33	0.12	9.81	29.26	55.87	-26.61	Average
2	0.15	31.38	0.12	9.81	41.31	65.87	-24.56	QP
3	0.40	20.82	0.11	9.82	30.75	47.77	-17.02	Average
4	0.40	25.19	0.11	9.82	35.12	57.77	-22.65	QP
5	3.84	11.41	0.13	9.85	21.39	46.00	-24.61	Average
6	3.84	20.24	0.13	9.85	30.22	56.00	-25.78	QP
7	6.99	16.61	0.13	9.86	26.60	50.00	-23.40	Average
8	6.99	22.87	0.13	9.86	32.86	60.00	-27.14	QP
9	10.62	16.23	0.14	9.87	26.24	50.00	-23.76	Average
10	10.62	22.51	0.14	9.87	32.52	60.00	-27.48	QP
11	16.84	21.89	0.18	10.02	32.09	50.00	-17.91	Average
12	16.84	25.98	0.18	10.02	36.18	60.00	-23.82	QP

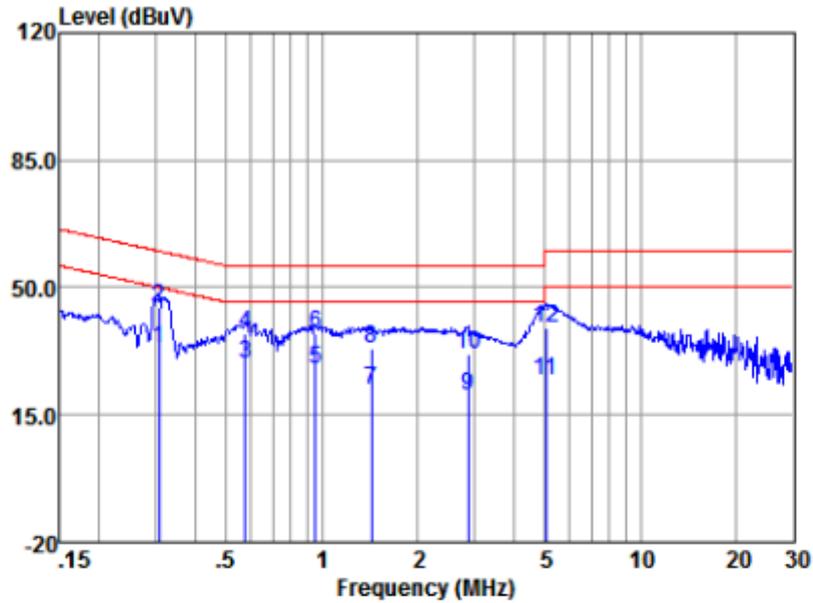
Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:e; Line:Live Line



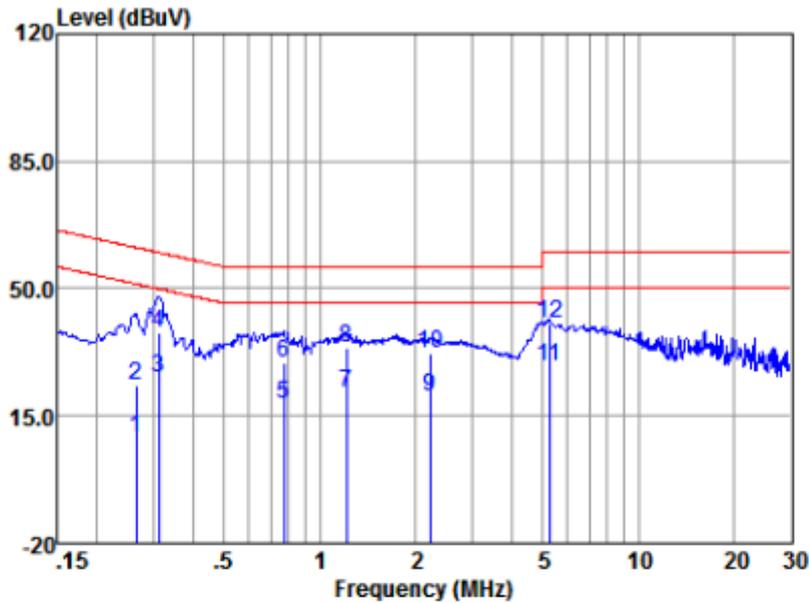
LISN : LINE  
EUT/Project No : 2758IT  
Test Mode : e

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.31	23.28	0.11	9.81	33.20	50.06	-16.86	Average
2	0.31	34.50	0.11	9.81	44.42	60.06	-15.64	QP
3	0.58	19.22	0.11	9.82	29.15	46.00	-16.85	Average
4	0.58	27.25	0.11	9.82	37.18	56.00	-18.82	QP
5	0.95	17.41	0.11	9.84	27.36	46.00	-18.64	Average
6	0.95	27.51	0.11	9.84	37.46	56.00	-18.54	QP
7	1.43	11.94	0.11	9.84	21.89	46.00	-24.11	Average
8	1.43	23.18	0.11	9.84	33.13	56.00	-22.87	QP
9	2.87	10.35	0.12	9.85	20.32	46.00	-25.68	Average
10	2.87	21.91	0.12	9.85	31.88	56.00	-24.12	QP
11	5.06	14.45	0.11	9.86	24.42	50.00	-25.58	Average
12	5.06	29.14	0.11	9.86	39.11	60.00	-20.89	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



Mode:e; Line:Neutral Line



LISN : NEUTRAL  
EUT/Project No : 2758IT  
Test Mode : e

	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	0.26	-0.87	0.11	9.81	9.05	51.29	-42.24	Average
2	0.26	13.68	0.11	9.81	23.60	61.29	-37.69	QP
3	0.31	15.49	0.11	9.81	25.41	49.93	-24.52	Average
4	0.31	28.19	0.11	9.81	38.11	59.93	-21.82	QP
5	0.77	8.48	0.11	9.83	18.42	46.00	-27.58	Average
6	0.77	19.89	0.11	9.83	29.83	56.00	-26.17	QP
7	1.22	11.25	0.11	9.84	21.20	46.00	-24.80	Average
8	1.22	23.90	0.11	9.84	33.85	56.00	-22.15	QP
9	2.21	10.41	0.12	9.85	20.38	46.00	-25.62	Average
10	2.21	22.13	0.12	9.85	32.10	56.00	-23.90	QP
11	5.25	18.31	0.13	9.86	28.30	50.00	-21.70	Average
12	5.25	30.33	0.13	9.86	40.32	60.00	-19.68	QP

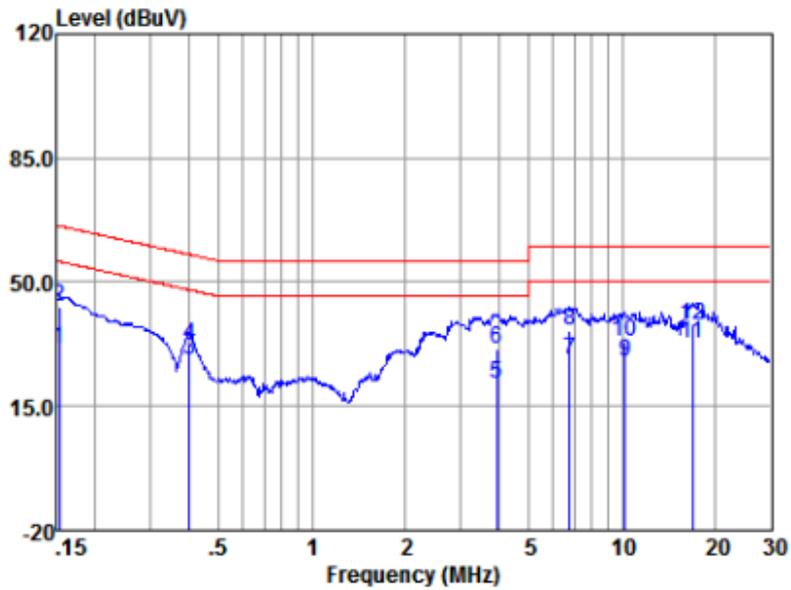
Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:f; Line:Live Line



LISN : LINE  
EUT/Project No : 2758IT  
Test Mode : f

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	21.22	0.11	9.81	31.14	55.87	-24.73	Average
2	0.15	32.91	0.11	9.81	42.83	65.87	-23.04	QP
3	0.40	17.97	0.11	9.82	27.90	47.81	-19.91	Average
4	0.40	22.23	0.11	9.82	32.16	57.81	-25.65	QP
5	3.94	11.15	0.12	9.85	21.12	46.00	-24.88	Average
6	3.94	21.40	0.12	9.85	31.37	56.00	-24.63	QP
7	6.77	17.97	0.11	9.86	27.94	50.00	-22.06	Average
8	6.77	26.54	0.11	9.86	36.51	60.00	-23.49	QP
9	10.23	17.80	0.10	9.87	27.77	50.00	-22.23	Average
10	10.23	23.46	0.10	9.87	33.43	60.00	-26.57	QP
11	16.84	22.50	0.16	10.02	32.68	50.00	-17.32	Average
12	16.84	27.71	0.16	10.02	37.89	60.00	-22.11	QP

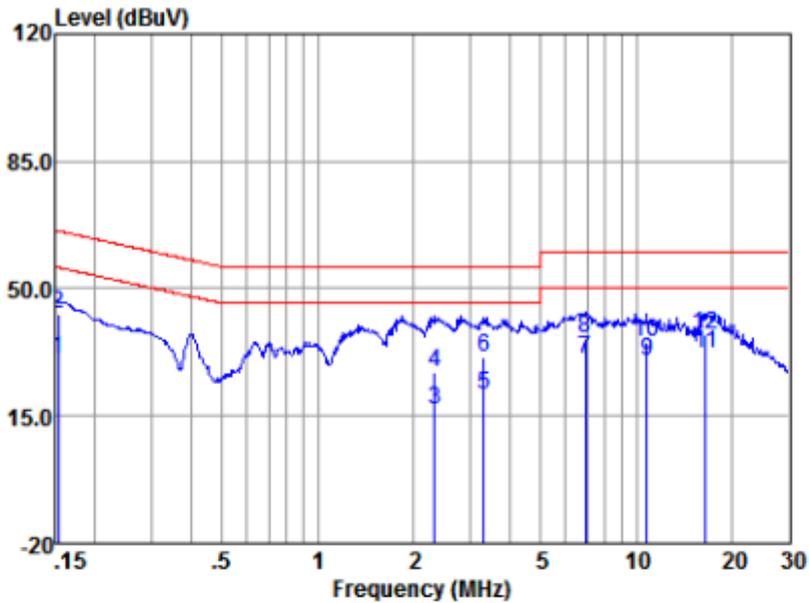
Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:f; Line:Neutral Line



LISN : NEUTRAL  
EUT/Project No : 2758IT  
Test Mode : f

	Freq (MHz)	Read level (dBUV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBUV)	Limit (dBUV)	Over Limit (dB)	Remark
1	0.15	20.45	0.12	9.81	30.38	55.87	-25.49	Average
2	0.15	32.99	0.12	9.81	42.92	65.87	-22.95	QP
3	2.33	6.84	0.13	9.85	16.82	46.00	-29.18	Average
4	2.33	17.22	0.13	9.85	27.20	56.00	-28.80	QP
5	3.33	10.93	0.13	9.85	20.91	46.00	-25.09	Average
6	3.33	21.04	0.13	9.85	31.02	56.00	-24.98	QP
7	6.91	20.77	0.13	9.86	30.76	50.00	-19.24	Average
8	6.91	26.37	0.13	9.86	36.36	60.00	-23.64	QP
9	10.79	19.97	0.14	9.88	29.99	50.00	-20.01	Average
10	10.79	25.41	0.14	9.88	35.43	60.00	-24.57	QP
11	16.57	21.78	0.18	10.02	31.98	50.00	-18.02	Average
12	16.57	27.38	0.18	10.02	37.58	60.00	-22.42	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss

## 6.2 Asymmetric Mode Conducted Emissions (150kHz-30MHz)

Test Requirement:	EN 55032:2015
Test Method:	EN 55032:2015
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz(Voltage)	84-74(dBμV) quasi-peak; 74-64(dBμV) average
0.5M-30MHz(Voltage)	74(dBμV) quasi-peak; 64(dBμV) average
0.15M-0.5MHz(Current)	40-30(dBμV) quasi-peak; 30-20(dBμV) average
0.5M-30MHz(Current)	30(dBμV) quasi-peak; 20(dBμV) average
Detector:	9kHz resolution bandwidth 0.15M to 30MHz

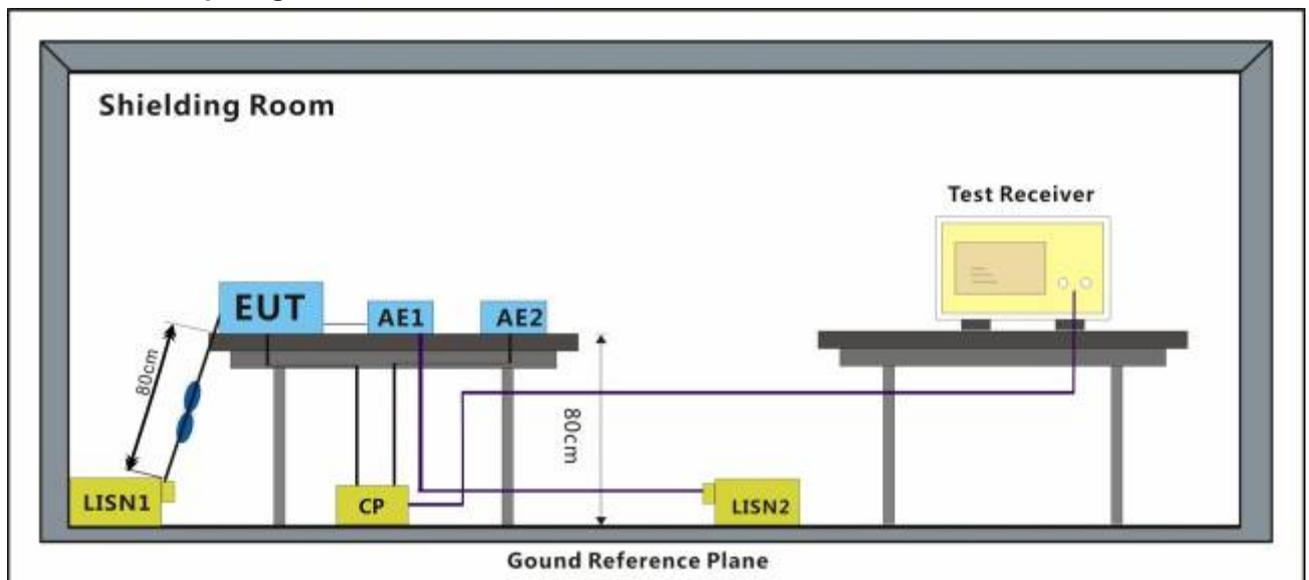
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C      Humidity: 50 % RH      Atmospheric Pressure: 1020 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e:I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f:I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

### 6.2.2 Test Setup Diagram



### 6.2.3 Measurement Data

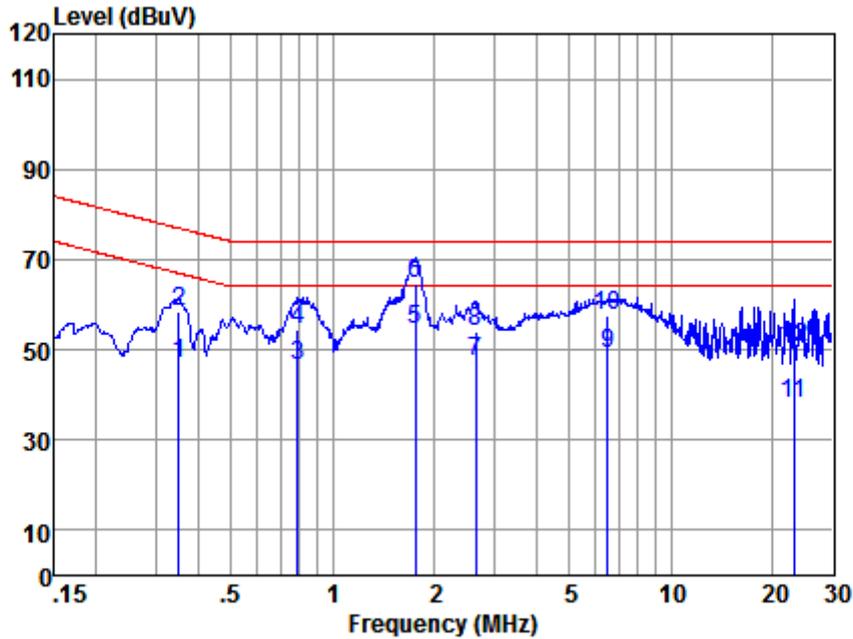
Notes : Emission Level=Read Level + LISN Factor + Cable Loss



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For old model  
Mode:a



Site : chamber  
Condition : ISN CAT5  
EUT/Project No: 8532IT  
Test mode : a

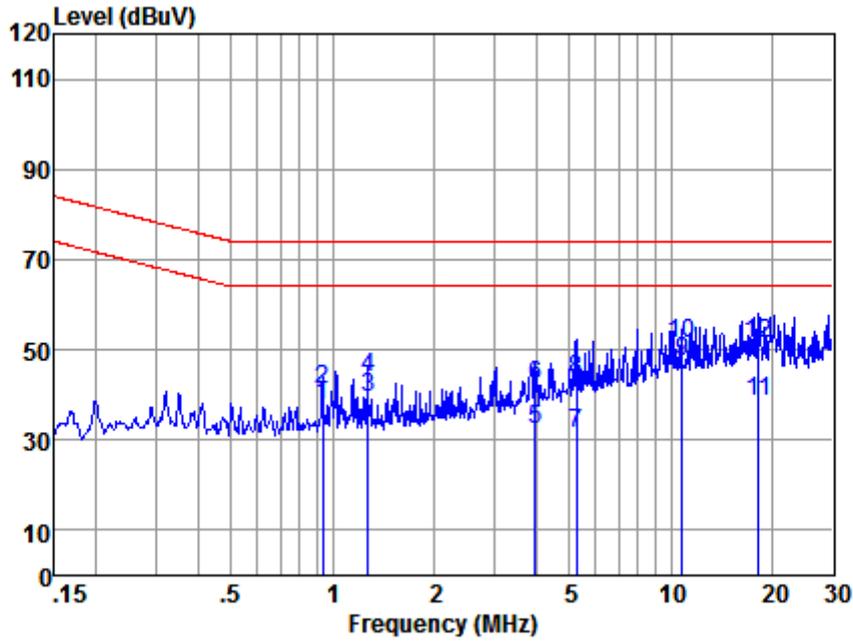
	Read	LISN	Cable	Limit	Over		
Freq	Level	Factor	Loss	Line	Limit	Remark	
MHz	dBuV	dB	dB	dBuV	dB		
1	0.350	27.74	9.52	9.81	47.07	66.96	-19.89 Average
2	0.350	39.30	9.52	9.81	58.63	76.96	-18.33 QP
3	0.788	27.30	9.38	9.83	46.51	64.00	-17.49 Average
4	0.788	35.11	9.38	9.83	54.32	74.00	-19.68 QP
5	1.753	35.28	9.28	9.85	54.41	64.00	-9.59 Average
6	1.753	45.36	9.28	9.85	64.49	74.00	-9.51 QP
7	2.650	28.26	9.25	9.85	47.36	64.00	-16.64 Average
8	2.650	35.03	9.25	9.85	54.13	74.00	-19.87 QP
9	6.523	30.00	9.20	9.86	49.06	64.00	-14.94 Average
10	6.523	38.72	9.20	9.86	57.78	74.00	-16.22 QP
11	23.140	18.67	9.35	10.04	38.06	64.00	-25.94 Average
12	23.140	31.21	9.35	10.04	50.60	74.00	-23.40 QP



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Mode:b

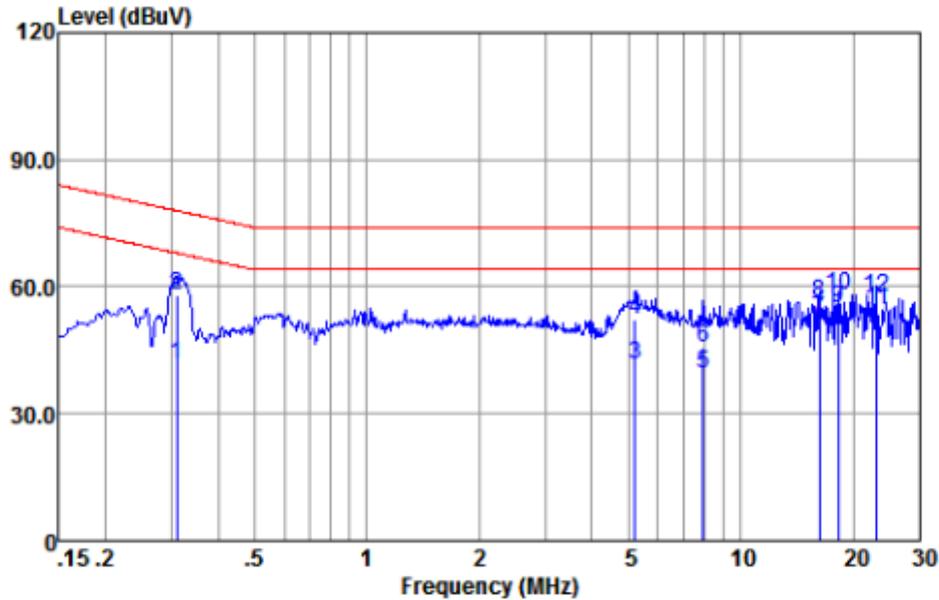


Site : chamber  
Condition : ISN CAT5  
EUT/Project No: 8532IT  
Test mode : b

	Read Freq	LISN Level	Cable Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.933	18.29	9.36	9.83	37.48	64.00	-26.52	Average
2	0.933	21.95	9.36	9.83	41.14	74.00	-32.86	QP
3	1.269	20.07	9.32	9.84	39.23	64.00	-24.77	Average
4	1.269	24.52	9.32	9.84	43.68	74.00	-30.32	QP
5	3.964	13.45	9.22	9.85	32.52	64.00	-31.48	Average
6	3.964	23.08	9.22	9.85	42.15	74.00	-31.85	QP
7	5.249	12.41	9.20	9.86	31.47	64.00	-32.53	Average
8	5.249	24.33	9.20	9.86	43.39	74.00	-30.61	QP
9	10.790	28.38	9.21	9.88	47.47	64.00	-16.53	Average
10	10.790	32.40	9.21	9.88	51.49	74.00	-22.51	QP
11	18.232	19.40	9.28	10.03	38.71	64.00	-25.29	Average
12	18.232	32.12	9.28	10.03	51.43	74.00	-22.57	QP



For new model  
Mode:c;



ISN : ISN CAT5  
EUT/Project No : 2758IT  
Test Mode : c

	Freq (MHz)	Read level (dBuV)	ISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.31	22.21	9.54	9.81	41.56	67.97	-26.41	Average
2	0.31	38.62	9.54	9.81	57.97	77.97	-20.00	QP
3	5.22	22.67	9.20	9.86	41.73	64.00	-22.27	Average
4	5.22	33.15	9.20	9.86	52.21	74.00	-21.79	QP
5	7.94	20.49	9.20	9.86	39.55	64.00	-24.45	Average
6	7.94	26.46	9.20	9.86	45.52	74.00	-28.48	QP
7	16.23	32.90	9.25	10.02	52.17	64.00	-11.83	Average
8	16.23	36.80	9.25	10.02	56.07	74.00	-17.93	QP
9	18.23	35.38	9.28	10.03	54.69	64.00	-9.31	Average
10	18.23	38.67	9.28	10.03	57.98	74.00	-16.02	QP
11	23.14	35.14	9.35	10.04	54.53	64.00	-9.47	Average
12	23.14	38.01	9.35	10.04	57.40	74.00	-16.60	QP

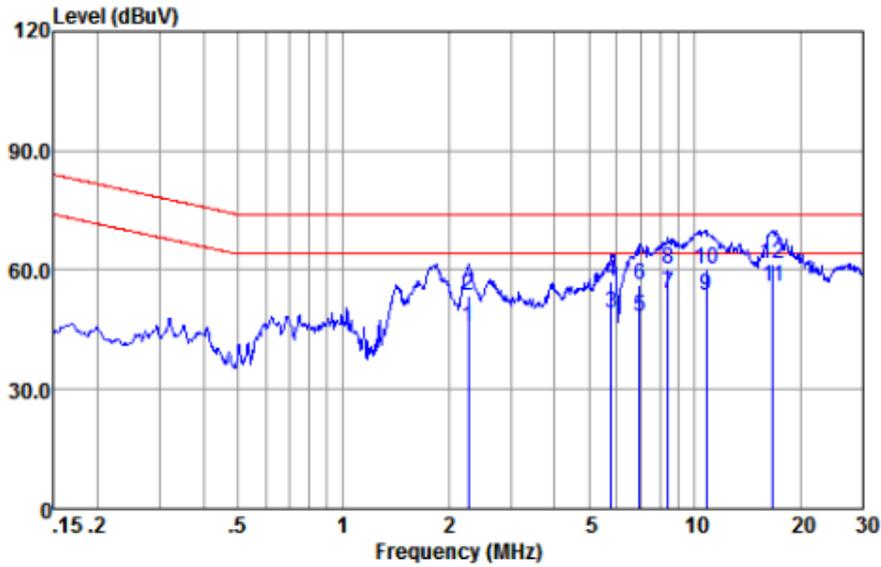
Notes: Emission Level = Read Level + ISN Factor + Cable loss



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Mode:d;



ISN : ISN CAT5  
EUT/Project No : 2758IT  
Test Mode : d

	Freq (MHz)	Read level (dBuV)	ISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	2.27	26.53	9.26	9.85	45.64	64.00	-18.36	Average
2	2.27	34.68	9.26	9.85	53.79	74.00	-20.21	QP
3	5.80	30.06	9.20	9.86	49.12	64.00	-14.88	Average
4	5.80	37.86	9.20	9.86	56.92	74.00	-17.08	QP
5	6.99	29.02	9.20	9.86	48.08	64.00	-15.92	Average
6	6.99	37.10	9.20	9.86	56.16	74.00	-17.84	QP
7	8.41	34.80	9.20	9.87	53.87	64.00	-10.13	Average
8	8.41	40.98	9.20	9.87	60.05	74.00	-13.95	QP
9	10.79	34.56	9.21	9.88	53.65	64.00	-10.35	Average
10	10.79	41.31	9.21	9.88	60.40	74.00	-13.60	QP
11	16.75	36.49	9.26	10.02	55.77	64.00	-8.23	Average
12	16.75	42.35	9.26	10.02	61.63	74.00	-12.37	QP

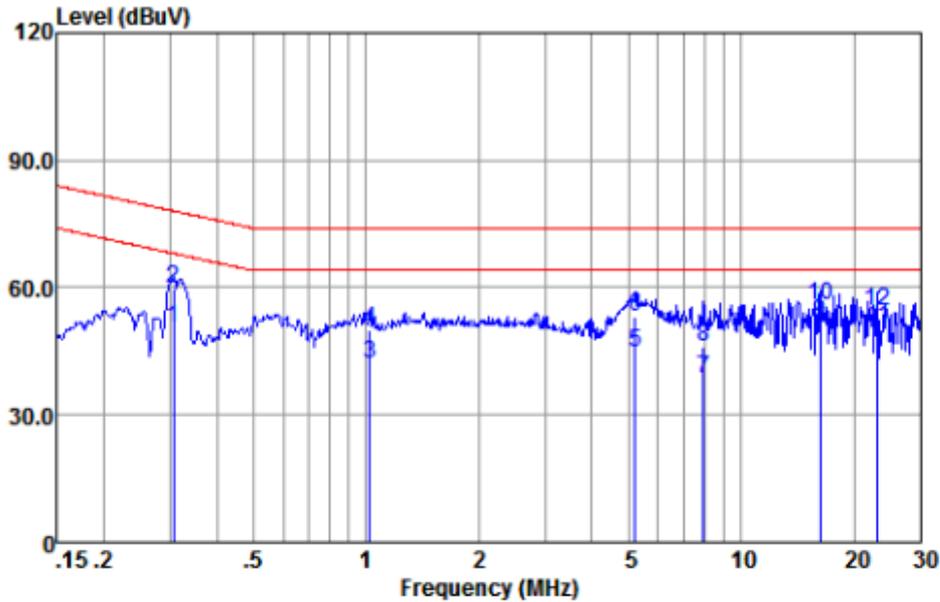
Notes: Emission Level = Read Level + ISN Factor + Cable loss



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Mode:e;



ISN : ISN CAT5  
EUT/Project No : 2758IT  
Test Mode : e

	Freq (MHz)	Read level (dBuV)	ISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.31	31.00	9.55	9.81	50.36	68.06	-17.70	Average
2	0.31	40.32	9.55	9.81	59.68	78.06	-18.38	QP
3	1.02	22.94	9.34	9.84	42.12	64.00	-21.88	Average
4	1.02	30.97	9.34	9.84	50.15	74.00	-23.85	QP
5	5.22	25.74	9.20	9.86	44.80	64.00	-19.20	Average
6	5.22	34.29	9.20	9.86	53.35	74.00	-20.65	QP
7	7.94	19.41	9.20	9.86	38.47	64.00	-25.53	Average
8	7.94	27.01	9.20	9.86	46.07	74.00	-27.93	QP
9	16.23	32.75	9.25	10.02	52.02	64.00	-11.98	Average
10	16.23	36.57	9.25	10.02	55.84	74.00	-18.16	QP
11	23.14	31.07	9.35	10.04	50.46	64.00	-13.54	Average
12	23.14	35.02	9.35	10.04	54.41	74.00	-19.59	QP

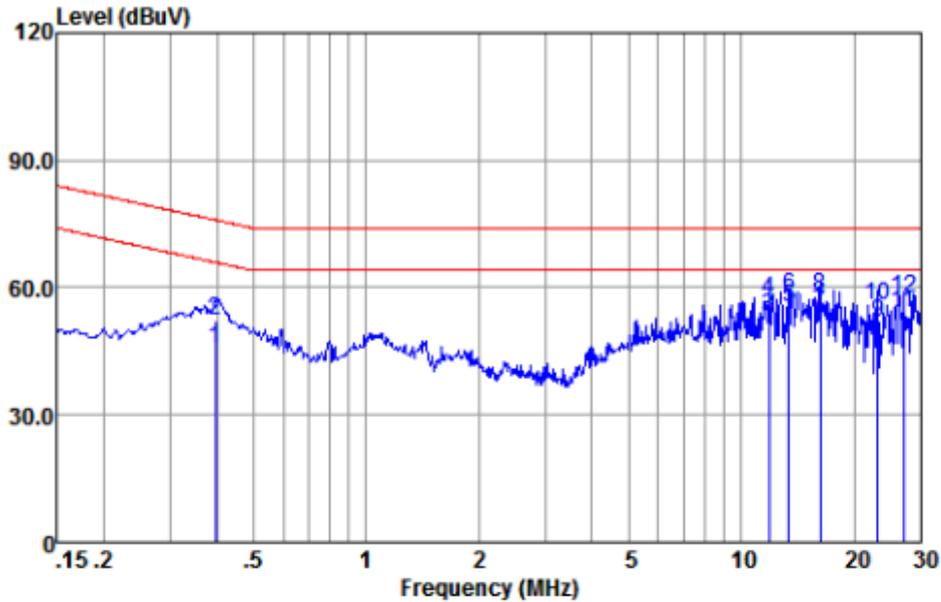
Notes: Emission Level = Read Level +ISN Factor + Cable loss



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Mode:f;



ISN : ISN CAT5  
EUT/Project No : 2758IT  
Test Mode : f

	Freq (MHz)	Read level (dBuV)	ISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.40	26.33	9.49	9.81	45.63	65.95	-20.32	Average
2	0.40	32.78	9.49	9.81	52.08	75.95	-23.87	QP
3	11.87	33.94	9.22	9.89	53.05	64.00	-10.95	Average
4	11.87	38.23	9.22	9.89	57.34	74.00	-16.66	QP
5	13.41	36.17	9.23	9.97	55.37	64.00	-8.63	Average
6	13.41	38.80	9.23	9.97	58.00	74.00	-16.00	QP
7	16.23	34.83	9.25	10.02	54.10	64.00	-9.90	Average
8	16.23	38.56	9.25	10.02	57.83	74.00	-16.17	QP
9	23.14	32.21	9.35	10.04	51.60	64.00	-12.40	Average
10	23.14	36.26	9.35	10.04	55.65	74.00	-18.35	QP
11	27.13	34.67	9.41	10.06	54.14	64.00	-9.86	Average
12	27.13	38.22	9.41	10.06	57.69	74.00	-16.31	QP

Notes: Emission Level = Read Level +ISN Factor + Cable loss

### 6.3 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN 55032:2015  
 Test Method: EN 55032:2015  
 Frequency Range: 30MHz to 1GHz  
 Measurement Distance: 3m  
 Limit:  
 30MHz-230MHz 40 dB(μV/m) quasi-peak  
 230MHz-1GHz 47 dB(μV/m) quasi-peak  
 Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

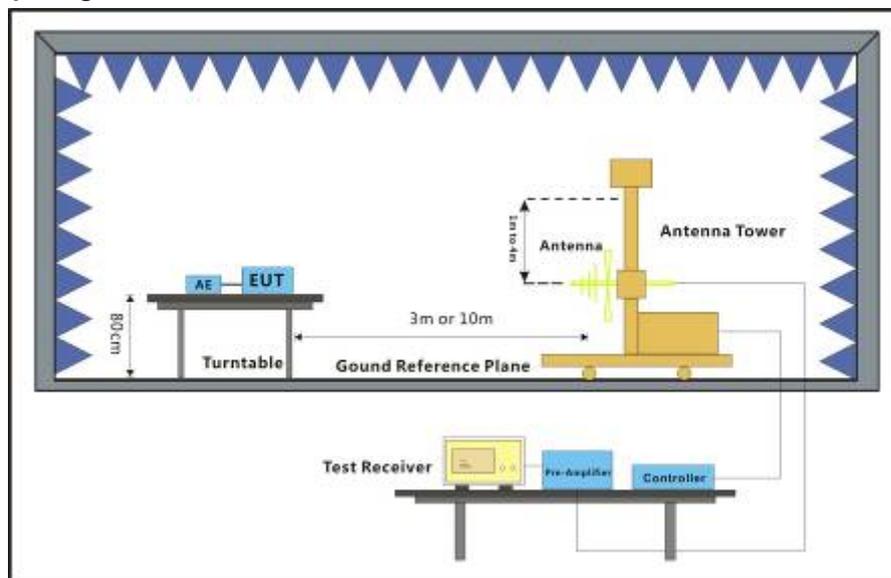
#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e:I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f:I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

#### 6.3.2 Test Setup Diagram



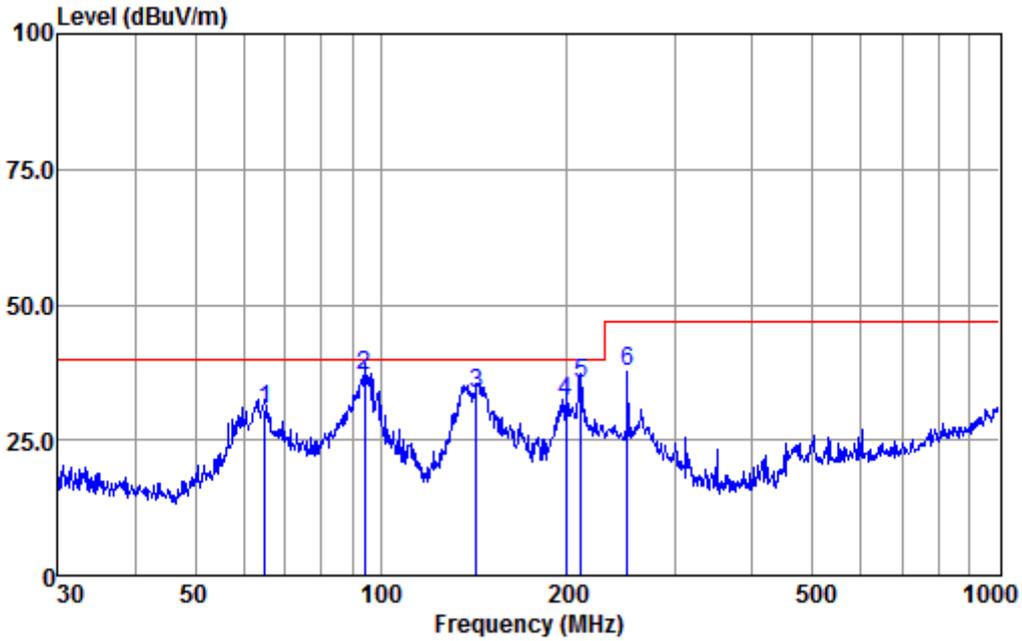
#### 6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Notes : Emission Level=Read Level + Antenna Factor + Cable Loss – Preamp Factor



For old model  
Mode:a; Polarization:Horizontal

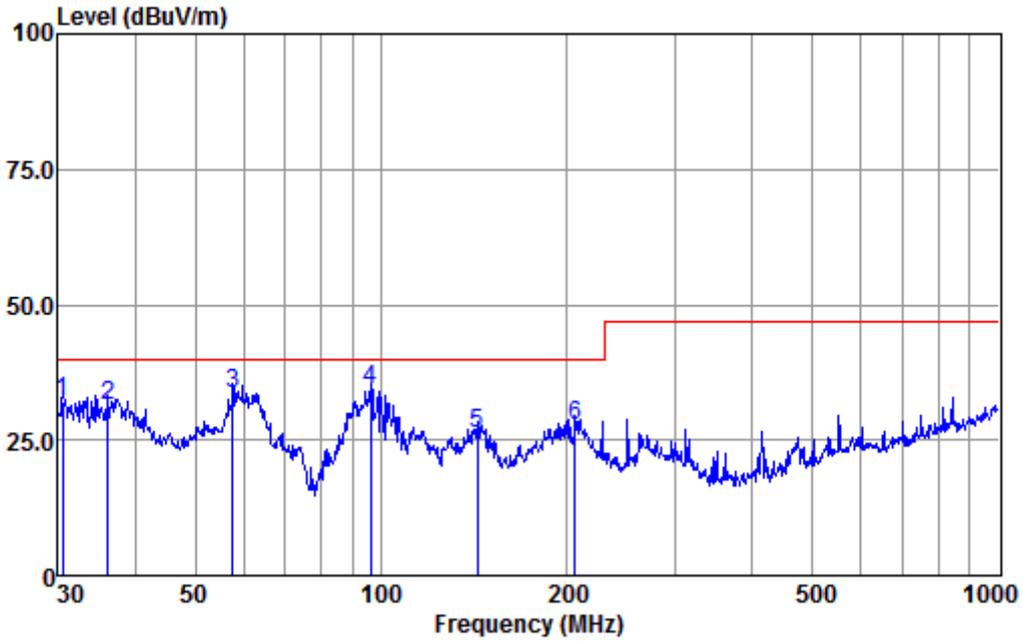


Condition : HORIZONTAL  
EUT/Project: 8532IT  
Test Mode : a

	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	64.89	60.82	12.00	0.32	42.66	30.48	40.00	-9.52 QP
2 q	94.10	70.58	8.71	0.43	42.69	37.03	40.00	-2.97 QP
3	142.82	64.00	11.48	0.61	42.63	33.46	40.00	-6.54 QP
4	199.29	64.30	9.46	0.69	42.52	31.93	40.00	-8.07 QP
5	210.79	67.15	9.89	0.71	42.51	35.24	40.00	-4.76 QP
6	250.30	67.69	11.50	0.77	42.46	37.50	47.00	-9.50 QP



Mode:a; Polarization:Vertical

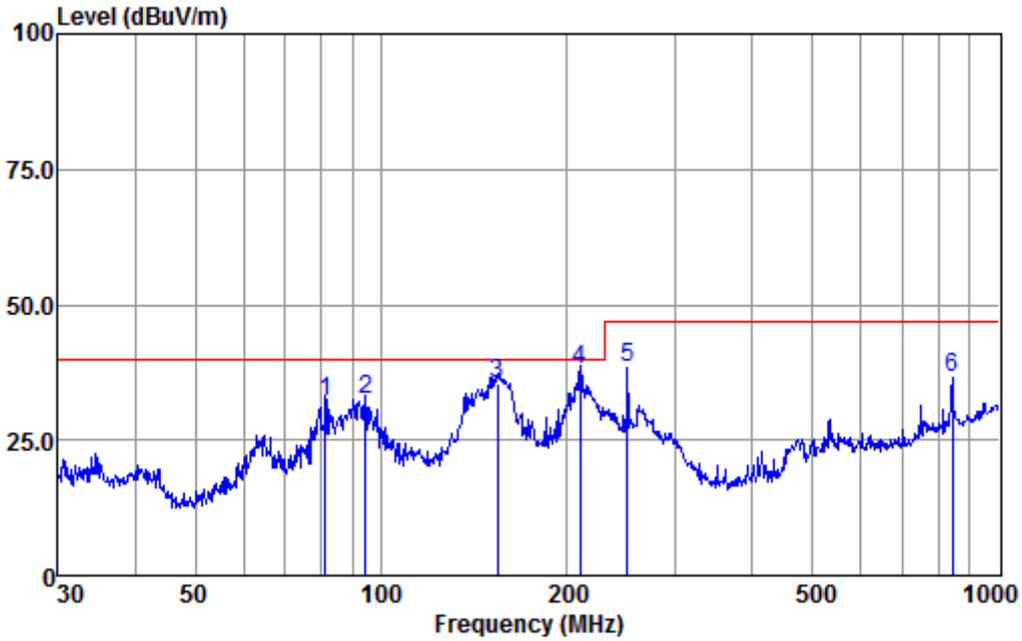


Condition : VERTICAL  
EUT/Project: 8532IT  
Test Mode : a

	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.53	59.18	15.36	0.18	42.60	32.12	40.00	-7.88 QP
2	36.13	57.71	15.95	0.21	42.61	31.26	40.00	-8.74 QP
3	57.59	63.68	12.14	0.29	42.65	33.46	40.00	-6.54 QP
4 q	96.10	67.62	8.99	0.44	42.69	34.36	40.00	-5.64 QP
5	143.33	56.83	11.51	0.61	42.63	26.32	40.00	-13.68 QP
6	206.40	59.64	9.69	0.70	42.52	27.51	40.00	-12.49 QP



Mode:b; Polarization:Horizontal

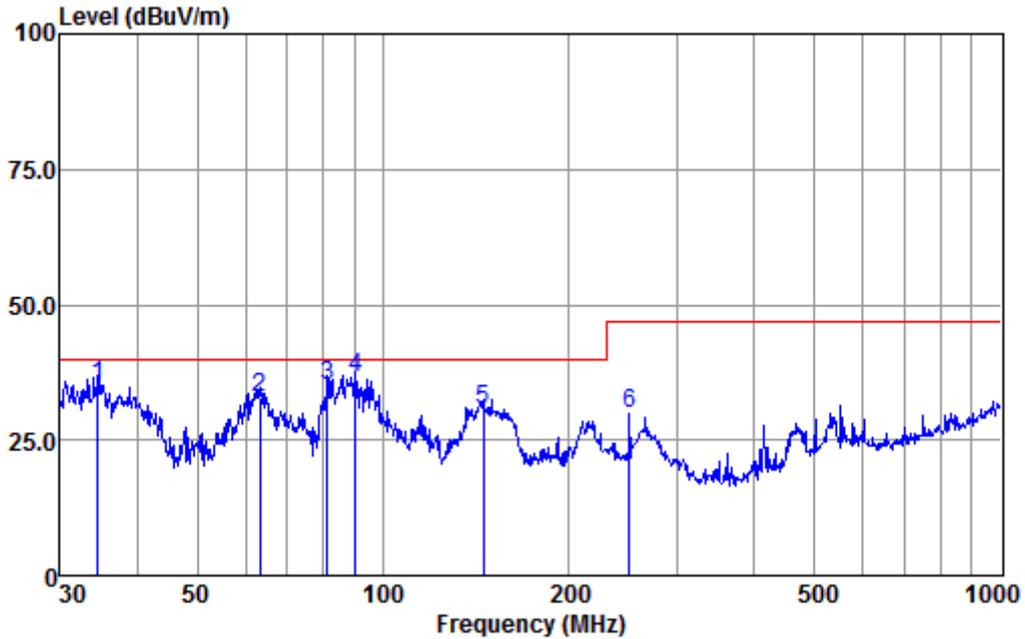


Condition : HORIZONTAL  
EUT/Project: 8532IT  
Test Mode : b

	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	81.21	66.39	8.01	0.38	42.68	32.10	40.00	-7.90 QP
2	94.43	65.88	8.75	0.43	42.69	32.37	40.00	-7.63 QP
3	154.28	64.92	12.43	0.63	42.60	35.38	40.00	-4.62 QP
4 q	210.05	69.83	9.86	0.71	42.51	37.89	40.00	-2.11 QP
5	250.30	68.62	11.50	0.77	42.46	38.43	47.00	-8.57 QP
6	842.13	54.27	22.25	2.21	42.28	36.45	47.00	-10.55 QP



Mode:b; Polarization:Vertical



Condition : VERTICAL  
EUT/Project: 8532IT  
Test Mode : b

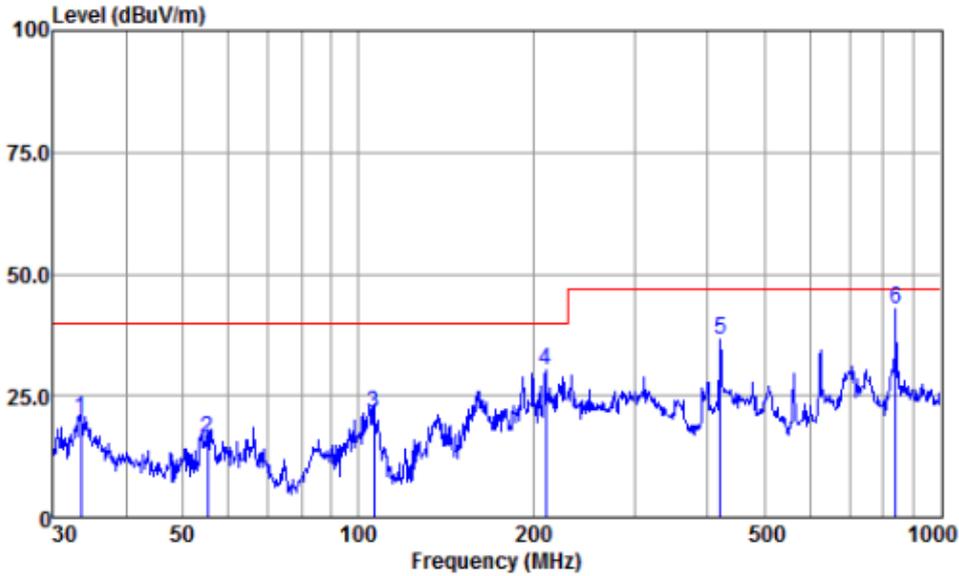
	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	34.52	61.61	15.79	0.20	42.61	34.99	40.00	-5.01 QP
2	63.31	63.02	12.19	0.31	42.66	32.86	40.00	-7.14 QP
3	81.21	69.26	8.01	0.38	42.68	34.97	40.00	-5.03 QP
4 q	90.22	70.79	8.15	0.42	42.68	36.68	40.00	-3.32 QP
5	145.35	60.87	11.63	0.61	42.62	30.49	40.00	-9.51 QP
6	250.30	59.91	11.50	0.77	42.46	29.72	47.00	-17.28 QP



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For new model  
Mode:c; Polarization:Horizontal



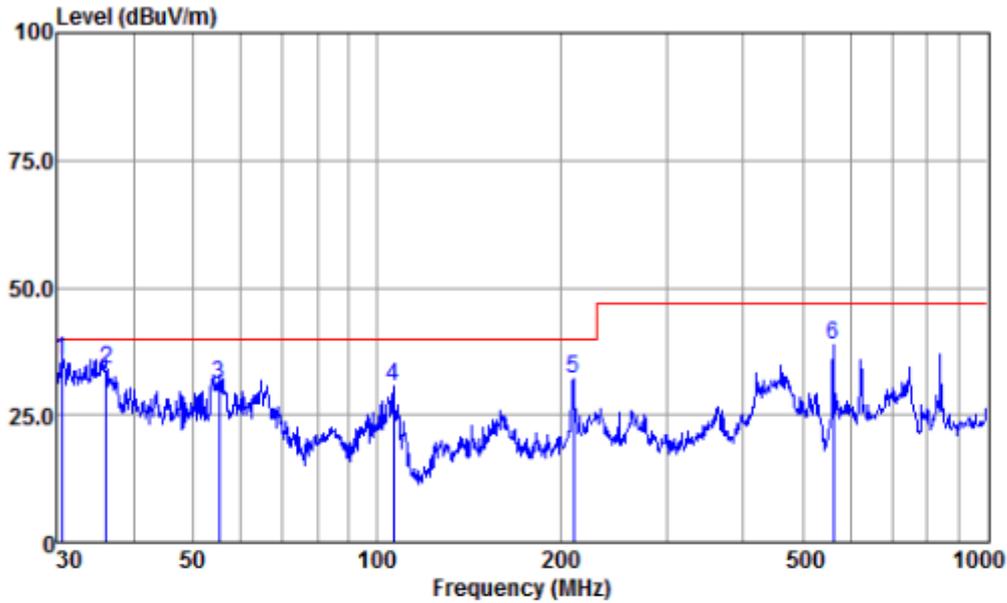
Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :c

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	33.44	47.10	15.68	0.20	42.61	20.37	40.00	-19.63 QP
2	55.22	46.88	11.68	0.28	42.65	16.19	40.00	-23.81 QP
3	106.76	53.99	9.57	0.49	42.70	21.35	40.00	-18.65 QP
4	210.79	62.12	9.89	0.71	42.51	30.21	40.00	-9.79 QP
5	420.58	61.95	15.57	1.03	42.11	36.44	47.00	-10.56 QP
6	839.18	60.80	22.23	2.21	42.28	42.96	47.00	-4.04 QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:c; Polarization:Vertical



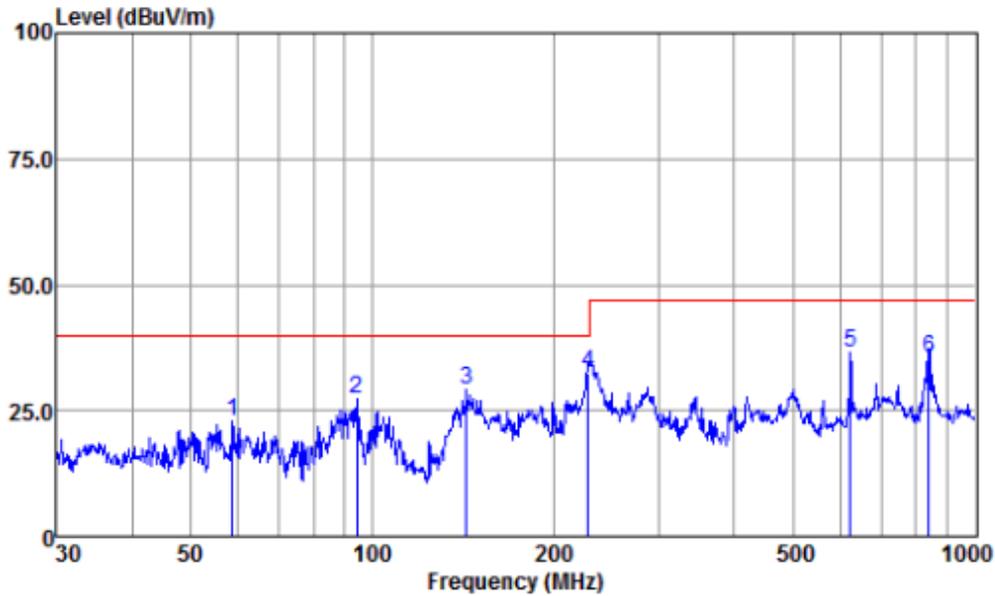
Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :c

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	30.53	62.95	15.36	0.18	42.60	35.89	40.00	-4.11 QP
2	36.13	60.35	15.95	0.21	42.61	33.90	40.00	-6.10 QP
3	55.22	61.50	11.68	0.28	42.65	30.81	40.00	-9.19 QP
4	106.76	63.13	9.57	0.49	42.70	30.49	40.00	-9.51 QP
5	210.79	64.07	9.89	0.71	42.51	32.16	40.00	-7.84 QP
6	560.69	60.99	18.60	1.30	42.17	38.72	47.00	-8.28 QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:d; Polarization:Horizontal



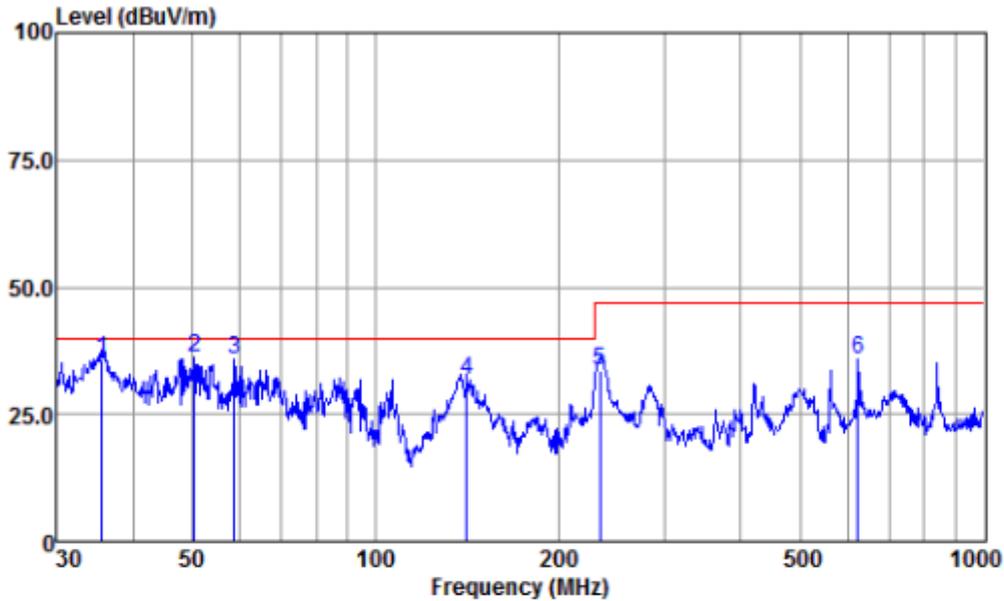
Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :d

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	58.61	53.08	12.33	0.29	42.65	23.05	40.00	-16.95 QP
2	94.43	60.71	8.75	0.43	42.69	27.20	40.00	-12.80 QP
3	143.33	59.63	11.51	0.61	42.63	29.12	40.00	-10.88 QP
4	228.49	63.67	10.64	0.74	42.48	32.57	40.00	-7.43 QP
5	622.89	57.78	19.60	1.41	42.19	36.60	47.00	-10.40 QP
6	842.13	53.18	22.25	2.21	42.28	35.36	47.00	-11.64 QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:d; Polarization:Vertical



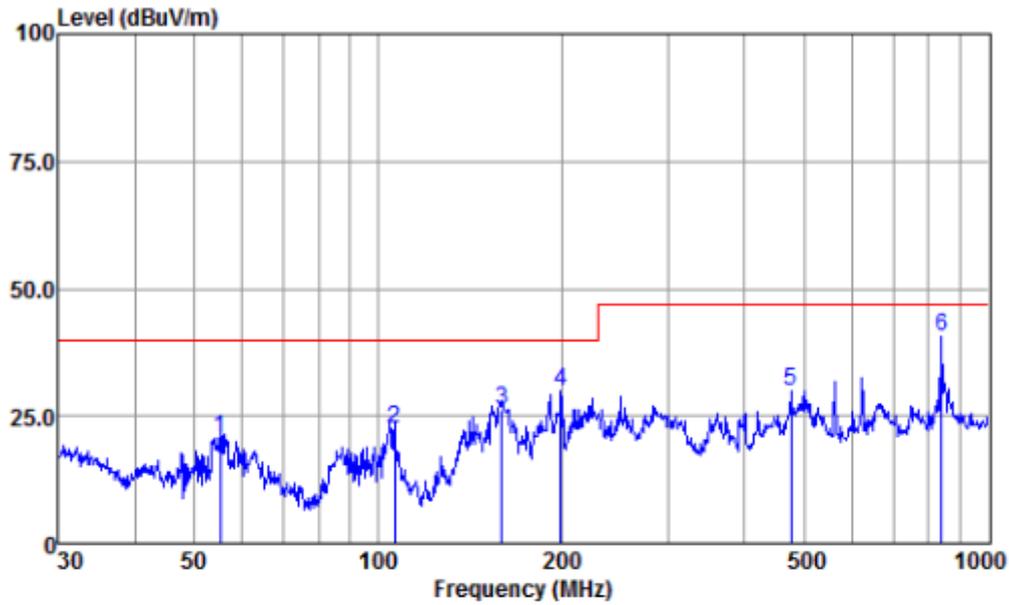
Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :d

	Read Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	35.50	62.16	15.89	0.21	42.61	35.65	40.00	-4.35	QP
2	50.41	67.75	10.68	0.26	42.64	36.05	40.00	-3.95	QP
3	58.61	66.00	12.33	0.29	42.65	35.97	40.00	-4.03	QP
4	141.33	62.51	11.39	0.61	42.63	31.88	40.00	-8.12	QP
5	234.17	64.49	10.87	0.75	42.48	33.63	47.00	-13.37	QP
6	622.89	57.09	19.60	1.41	42.19	35.91	47.00	-11.09	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:e; Polarization:Horizontal



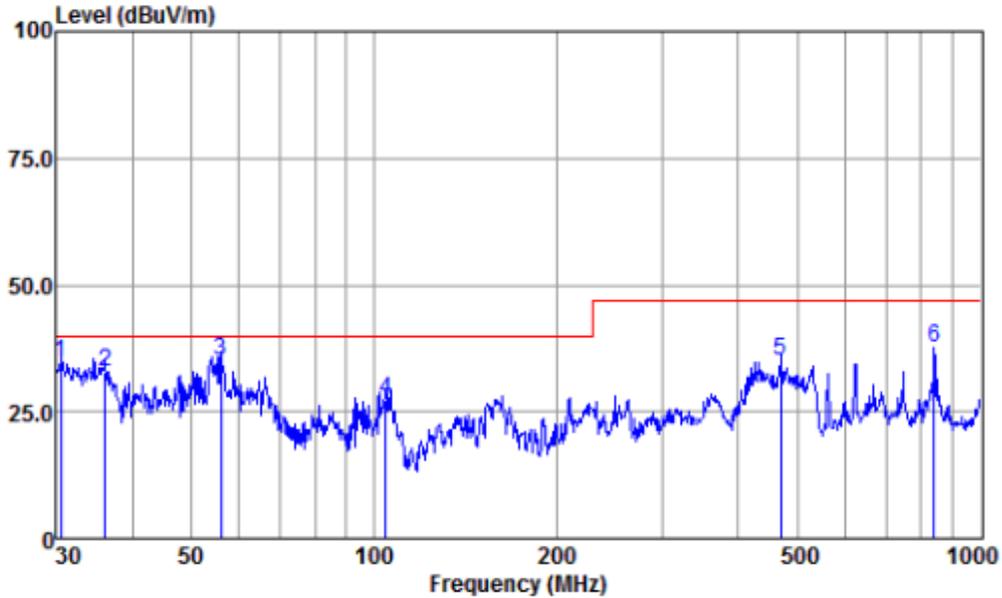
Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :e

	Read	Antenna	Cable	Preamp	Emission	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
1	55.22	11.68	0.28	42.65	20.69	40.00	-19.31	QP	
2	106.76	55.22	9.57	0.49	42.70	22.58	40.00	-17.42	QP
3	159.78	55.07	13.10	0.63	42.59	26.21	40.00	-13.79	QP
4	199.29	62.21	9.46	0.69	42.52	29.84	40.00	-10.16	QP
5	475.50	54.18	16.73	1.15	42.13	29.93	47.00	-17.07	QP
6	842.13	58.58	22.25	2.21	42.28	40.76	47.00	-6.24	QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:e; Polarization:Vertical



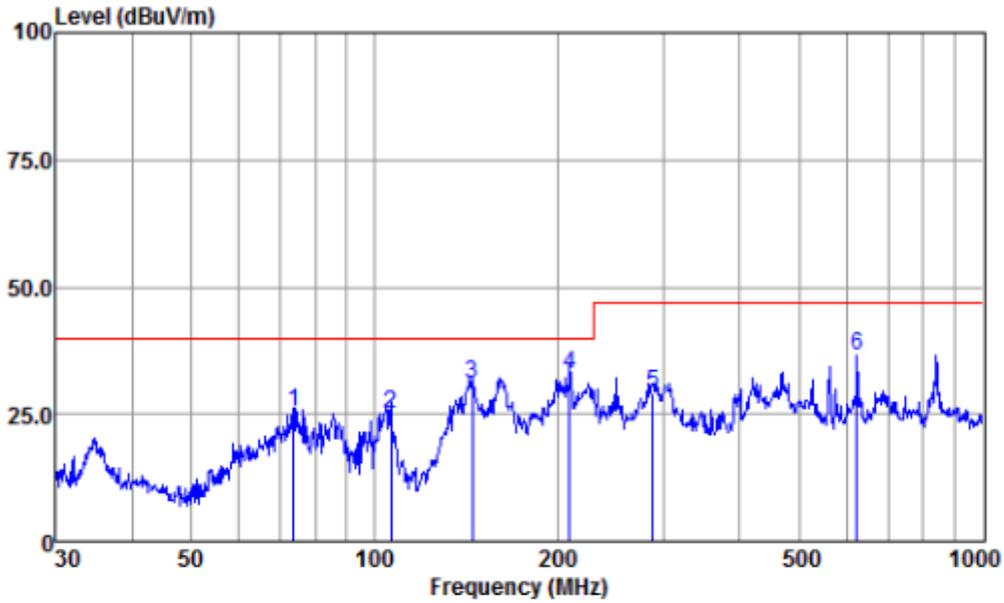
Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :e

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	30.53	61.68	15.36	0.18	42.60	34.62	40.00	-5.38 QP
2	36.13	59.43	15.95	0.21	42.61	32.98	40.00	-7.02 QP
3	56.00	65.44	11.83	0.28	42.65	34.90	40.00	-5.10 QP
4	104.90	59.98	9.55	0.47	42.69	27.31	40.00	-12.69 QP
5	468.88	59.48	16.60	1.13	42.13	35.08	47.00	-11.92 QP
6	842.13	55.52	22.25	2.21	42.28	37.70	47.00	-9.30 QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:f; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :f

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	73.88	57.61	10.06	0.35	42.67	25.35	40.00	-14.65	QP
2	106.76	57.89	9.57	0.49	42.70	25.25	40.00	-14.75	QP
3	144.84	61.57	11.60	0.61	42.62	31.16	40.00	-8.84	QP
4	210.05	64.71	9.86	0.71	42.51	32.77	40.00	-7.23	QP
5	286.98	57.94	12.77	0.83	42.41	29.13	47.00	-17.87	QP
6	622.89	57.72	19.60	1.41	42.19	36.54	47.00	-10.46	QP

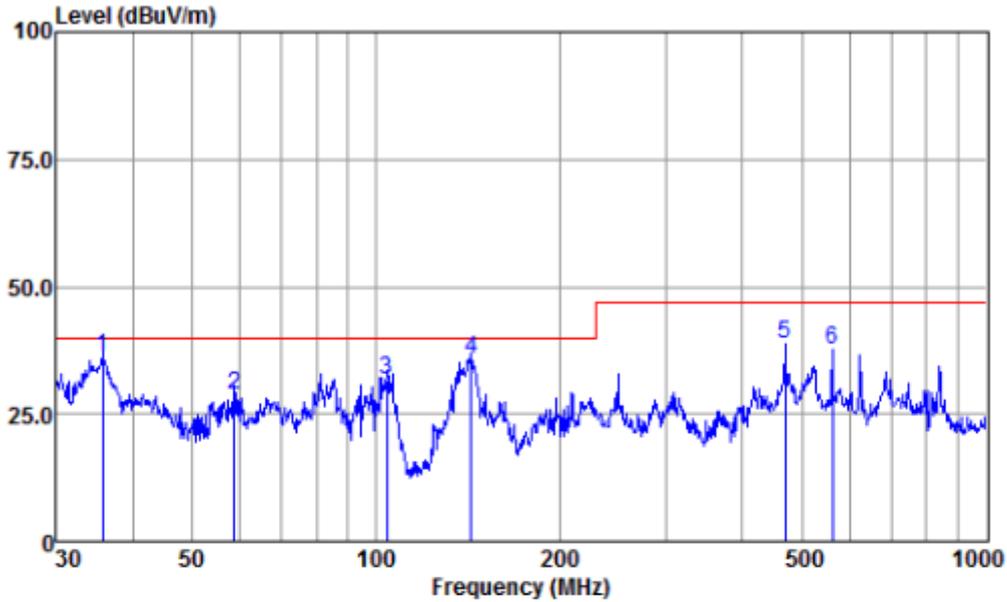
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:f; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :f

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	35.62	62.66	15.90	0.21	42.61	36.16	40.00	-3.84 QP
2	58.61	58.80	12.33	0.29	42.65	28.77	40.00	-11.23 QP
3	104.54	64.26	9.55	0.47	42.69	31.59	40.00	-8.41 QP
4	143.33	66.40	11.51	0.61	42.63	35.89	40.00	-4.11 QP
5	468.88	63.22	16.60	1.13	42.13	38.82	47.00	-8.18 QP
6	560.69	59.96	18.60	1.30	42.17	37.69	47.00	-9.31 QP

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor

## 6.4 Radiated Emissions (above 1GHz)

Test Requirement:	EN 55032:2015
Test Method:	EN 55032:2015
Frequency Range:	Above 1GHz
Measurement Distance:	3m
Limit:	
1GHz-3GHz	70 dB(μV/m) peak, 50 dB(μV/m) average
3GHz-6GHz	74 dB(μV/m) peak, 54dB(μV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 6000MHz

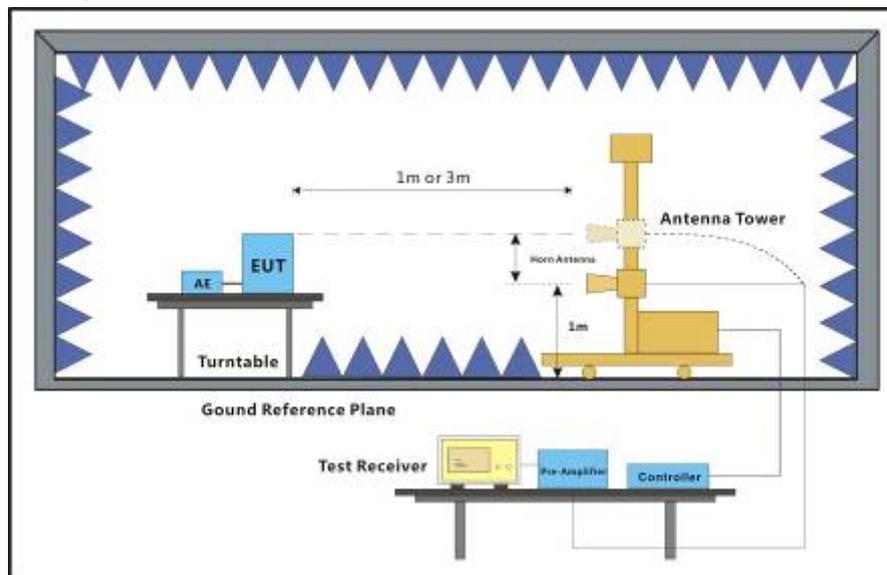
### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e:I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f:I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

### 6.4.2 Test Setup Diagram



### 6.4.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

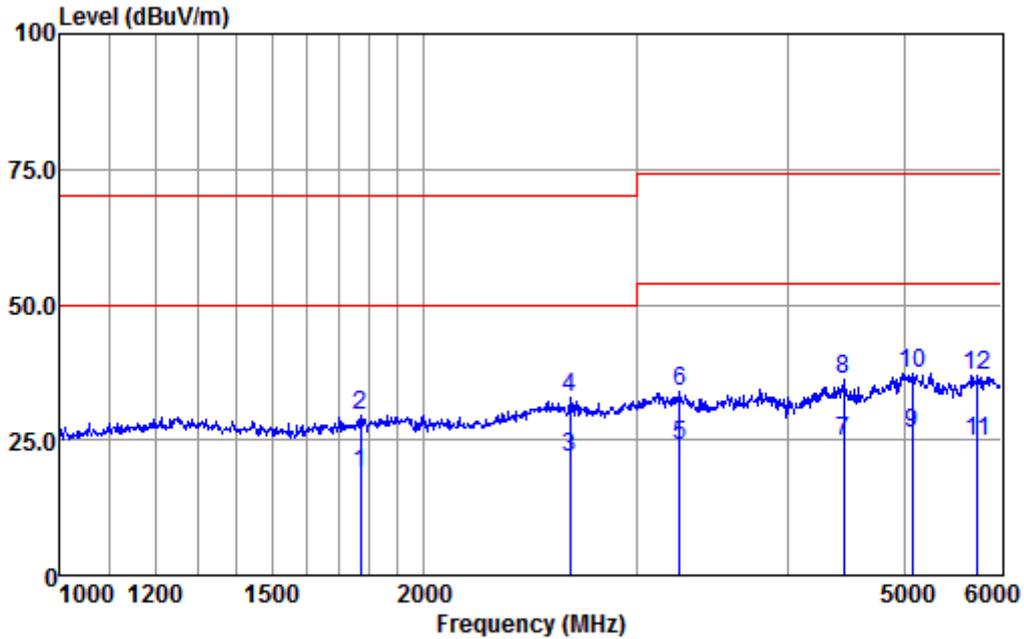
Notes : Emission Level=Read Level + Antenna Factor + Cable Loss – Preamp Factor



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For old model  
Mode:a; Polarization:Horizontal

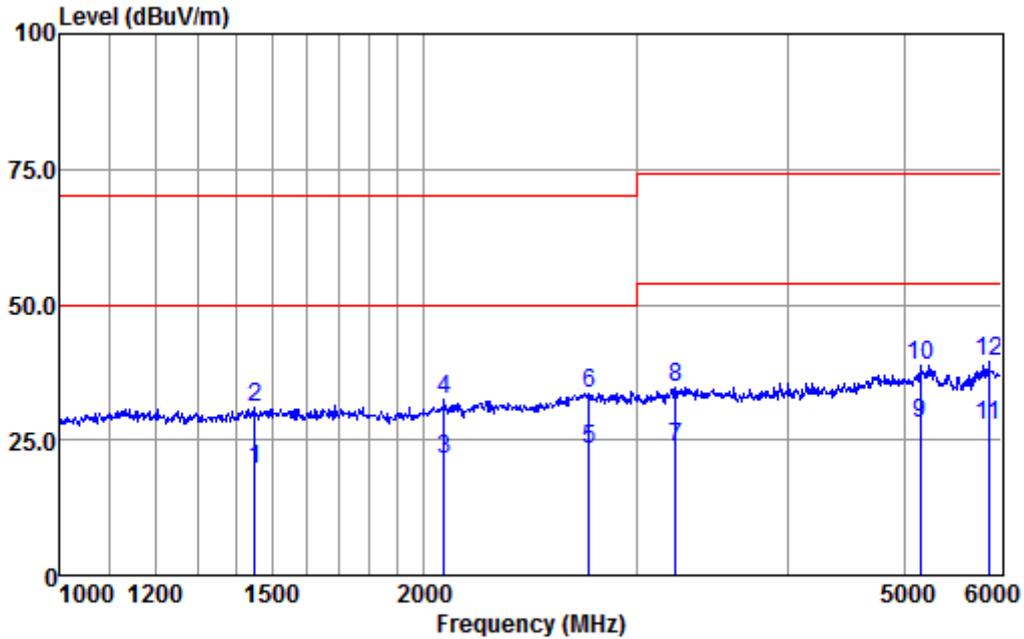


Condition : HORIZONTAL  
EUT/Project: 8532IT  
Test mode : a

	ReadAntenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1774.22	30.99	25.66	4.17	42.10	18.72	50.00	-31.28 Average
2	1774.22	41.74	25.66	4.17	42.10	29.47	70.00	-40.53 Peak
3	2640.94	30.45	27.73	5.52	42.03	21.67	50.00	-28.33 Average
4	2640.94	41.68	27.73	5.52	42.03	32.90	70.00	-37.10 Peak
5	3256.88	30.98	28.66	6.02	41.79	23.87	54.00	-30.13 Average
6	3256.88	41.11	28.66	6.02	41.79	34.00	74.00	-40.00 Peak
7	4448.36	28.36	30.51	7.70	41.69	24.88	54.00	-29.12 Average
8	4448.36	39.65	30.51	7.70	41.69	36.17	74.00	-37.83 Peak
9	5069.97	28.03	31.65	8.21	41.67	26.22	54.00	-27.78 Average
10 p	5069.97	39.15	31.65	8.21	41.67	37.34	74.00	-36.66 Peak
11	5747.46	26.18	32.25	8.36	41.92	24.87	54.00	-29.13 Average
12	5747.46	38.39	32.25	8.36	41.92	37.08	74.00	-36.92 Peak



Mode:a; Polarization:Vertical



Condition : VERTICAL  
EUT/Project: 8532IT  
Test mode : a

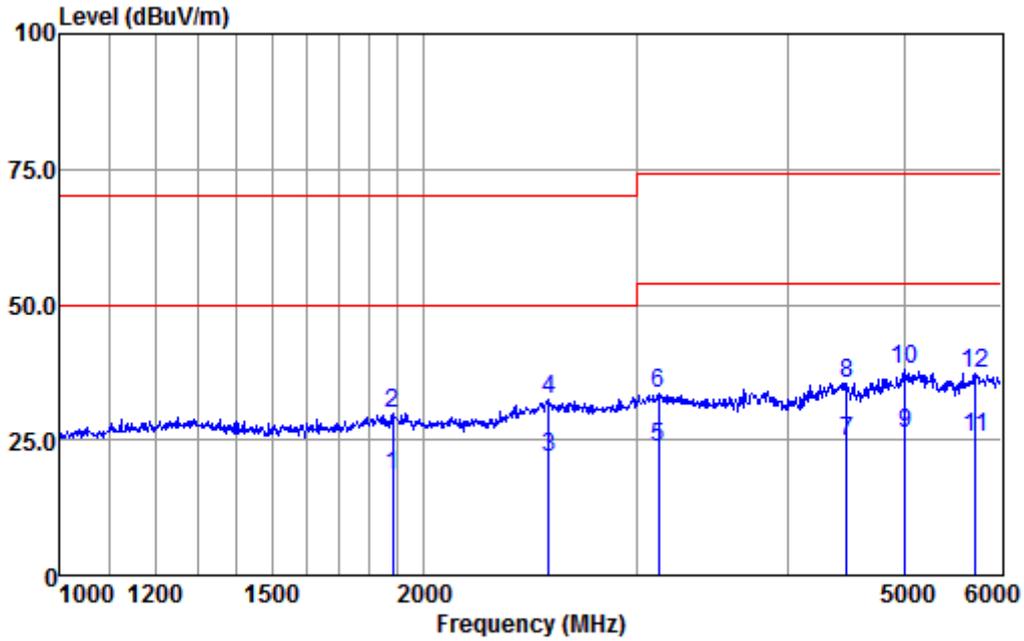
	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1449.03	32.79	25.11	3.75	41.91	19.74	50.00	-30.26	Average
2	1449.03	43.89	25.11	3.75	41.91	30.84	70.00	-39.16	Peak
3	2080.96	32.83	26.25	4.60	42.21	21.47	50.00	-28.53	Average
4	2080.96	43.77	26.25	4.60	42.21	32.41	70.00	-37.59	Peak
5	2742.20	31.61	27.96	5.61	41.94	23.24	50.00	-26.76	Average
6	2742.20	42.07	27.96	5.61	41.94	33.70	70.00	-36.30	Peak
7	3233.62	30.85	28.65	6.02	41.78	23.74	54.00	-30.26	Average
8	3233.62	41.79	28.65	6.02	41.78	34.68	74.00	-39.32	Peak
9	5152.39	29.75	31.69	8.22	41.73	27.93	54.00	-26.07	Average
10	5152.39	40.72	31.69	8.22	41.73	38.90	74.00	-35.10	Peak
11	5872.37	28.78	32.41	8.40	41.88	27.71	54.00	-26.29	Average
12 p	5872.37	40.67	32.41	8.40	41.88	39.60	74.00	-34.40	Peak



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Mode:b; Polarization:Horizontal



Condition : HORIZONTAL  
EUT/Project: 8532IT  
Test mode : b

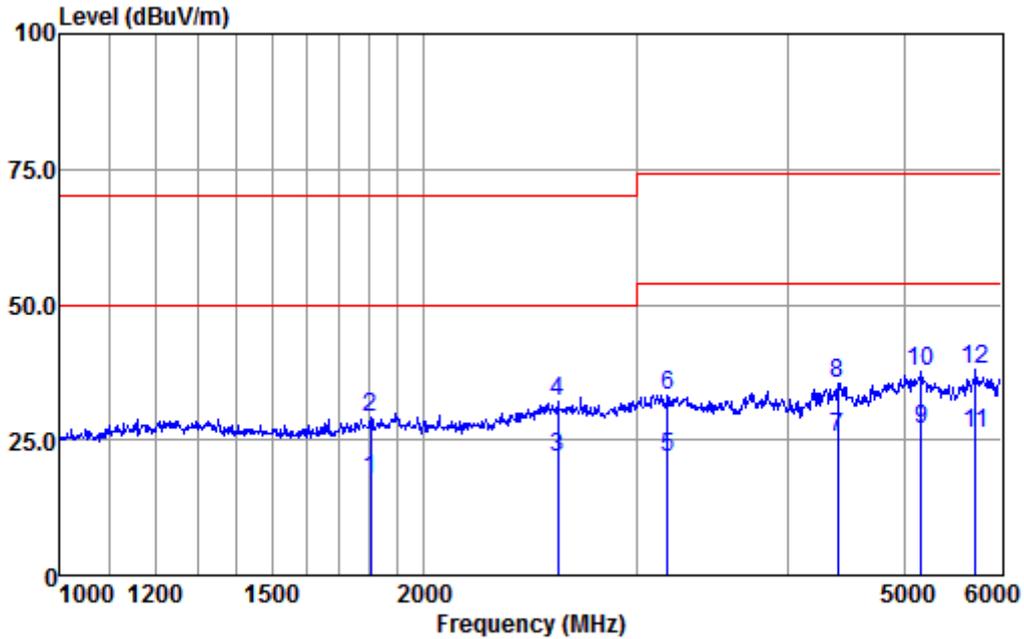
	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1885.67	30.29	25.83	4.33	42.16	18.29	50.00	-31.71 Average
2	1885.67	41.74	25.83	4.33	42.16	29.74	70.00	-40.26 Peak
3	2538.86	30.87	27.49	5.37	42.13	21.60	50.00	-28.40 Average
4	2538.86	41.73	27.49	5.37	42.13	32.46	70.00	-37.54 Peak
5	3131.00	30.99	28.58	5.89	41.75	23.71	54.00	-30.29 Average
6	3131.00	41.01	28.58	5.89	41.75	33.73	74.00	-40.27 Peak
7	4480.36	27.98	30.58	7.70	41.67	24.59	54.00	-29.41 Average
8	4480.36	38.72	30.58	7.70	41.67	35.33	74.00	-38.67 Peak
9	5006.77	28.09	31.60	8.19	41.61	26.27	54.00	-27.73 Average
10 p	5006.77	39.84	31.60	8.19	41.61	38.02	74.00	-35.98 Peak
11	5726.90	26.94	32.23	8.36	41.93	25.60	54.00	-28.40 Average
12	5726.90	38.63	32.23	8.36	41.93	37.29	74.00	-36.71 Peak



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Mode:b; Polarization:Vertical



Condition : VERTICAL  
EUT/Project: 8532IT  
Test mode : b

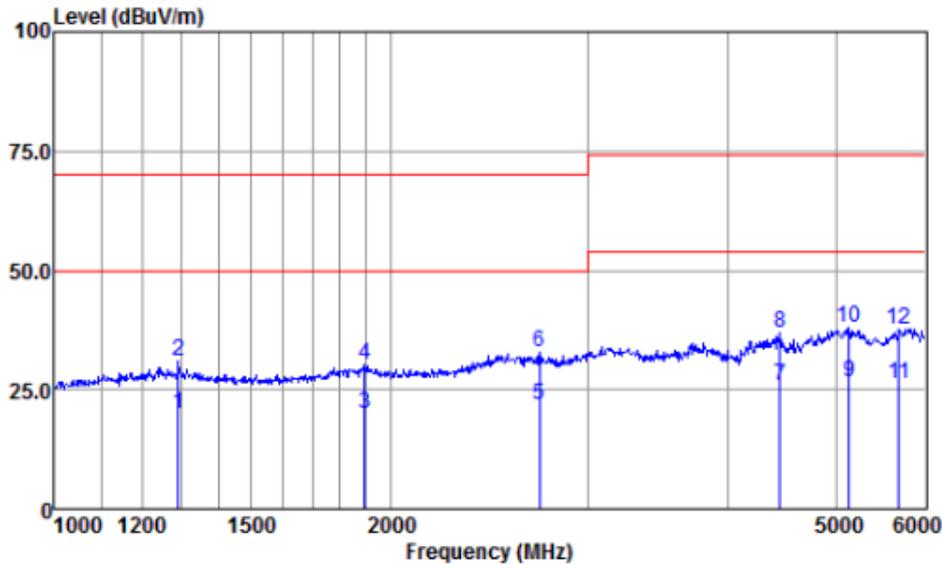
	ReadAntenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1806.30	30.03	25.72	4.23	42.12	17.86	50.00	-32.14 Average
2	1806.30	41.32	25.72	4.23	42.12	29.15	70.00	-40.85 Peak
3	2580.13	30.73	27.59	5.42	42.09	21.65	50.00	-28.35 Average
4	2580.13	41.07	27.59	5.42	42.09	31.99	70.00	-38.01 Peak
5	3181.89	29.13	28.61	5.96	41.77	21.93	54.00	-32.07 Average
6	3181.89	40.57	28.61	5.96	41.77	33.37	74.00	-40.63 Peak
7	4400.79	28.99	30.44	7.64	41.71	25.36	54.00	-28.64 Average
8	4400.79	39.12	30.44	7.64	41.71	35.49	74.00	-38.51 Peak
9	5161.63	28.67	31.70	8.22	41.74	26.85	54.00	-27.15 Average
10	5161.63	39.31	31.70	8.22	41.74	37.49	74.00	-36.51 Peak
11	5726.90	27.51	32.23	8.36	41.93	26.17	54.00	-27.83 Average
12 p	5726.90	39.32	32.23	8.36	41.93	37.98	74.00	-36.02 Peak



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For new model  
Mode:c; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :c

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	1289.73	33.32	24.79	3.51	41.86	19.76	50.00	-30.24	Average
2	1289.73	44.39	24.79	3.51	41.86	30.83	70.00	-39.17	Peak
3	1895.83	31.97	25.85	4.33	42.16	19.99	50.00	-30.01	Average
4	1895.83	42.29	25.85	4.33	42.16	30.31	70.00	-39.69	Peak
5	2717.74	30.11	27.91	5.61	41.96	21.67	50.00	-28.33	Average
6	2717.74	41.10	27.91	5.61	41.96	32.66	70.00	-37.34	Peak
7	4456.34	29.38	30.53	7.70	41.68	25.93	54.00	-28.07	Average
8	4456.34	40.33	30.53	7.70	41.68	36.88	74.00	-37.12	Peak
9	5143.16	28.32	31.69	8.22	41.73	26.50	54.00	-27.50	Average
10	5143.16	39.83	31.69	8.22	41.73	38.01	74.00	-35.99	Peak
11	5696.20	27.62	32.18	8.36	41.94	26.22	54.00	-27.78	Average
12	5696.20	39.15	32.18	8.36	41.94	37.75	74.00	-36.25	Peak

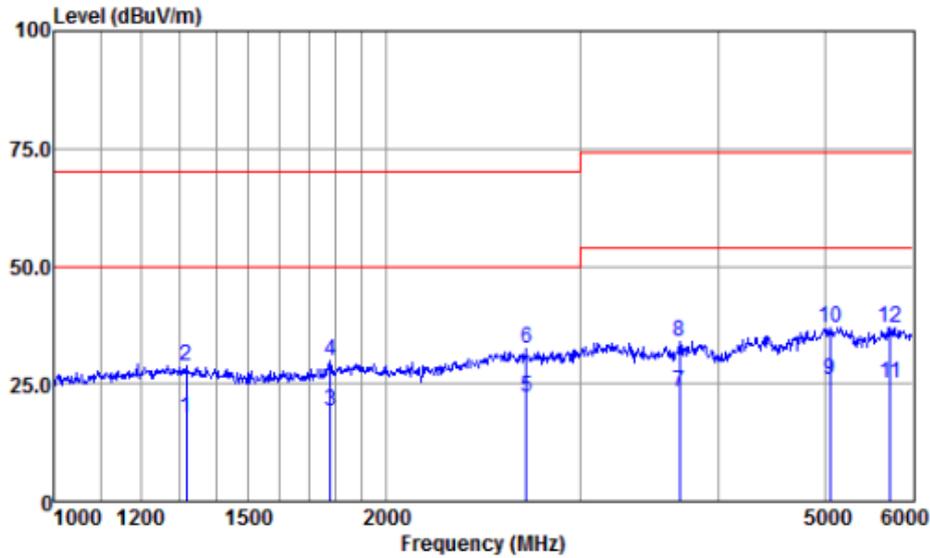
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:c; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :c

	Read Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	1317.76	31.12	24.85	3.57	41.87	17.67	50.00	-32.33	Average
2	1317.76	42.39	24.85	3.57	41.87	28.94	70.00	-41.06	Peak
3	1780.59	31.40	25.68	4.21	42.10	19.19	50.00	-30.81	Average
4	1780.59	42.12	25.68	4.21	42.10	29.91	70.00	-40.09	Peak
5	2679.07	30.69	27.82	5.57	41.99	22.09	50.00	-27.91	Average
6	2679.07	41.02	27.82	5.57	41.99	32.42	70.00	-37.58	Peak
7	3692.09	29.34	29.16	6.51	41.90	23.11	54.00	-30.89	Average
8	3692.09	40.22	29.16	6.51	41.90	33.99	74.00	-40.01	Peak
9	5060.89	27.75	31.64	8.21	41.66	25.94	54.00	-28.06	Average
10	5060.89	38.85	31.64	8.21	41.66	37.04	74.00	-36.96	Peak
11	5737.17	26.26	32.23	8.36	41.93	24.92	54.00	-29.08	Average
12	5737.17	38.40	32.23	8.36	41.93	37.06	74.00	-36.94	Peak

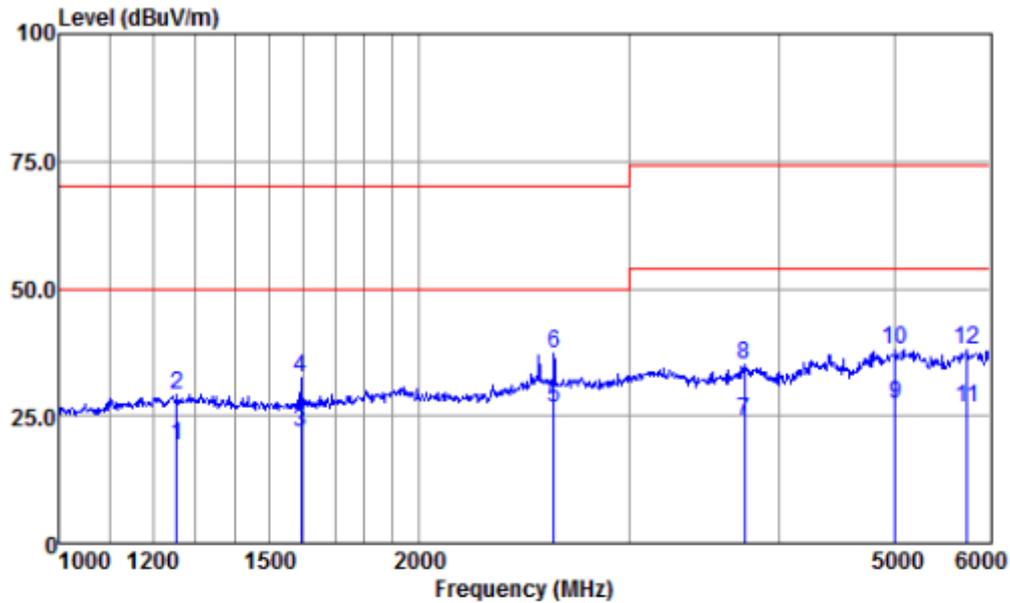
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:d; Polarization:Horizontal



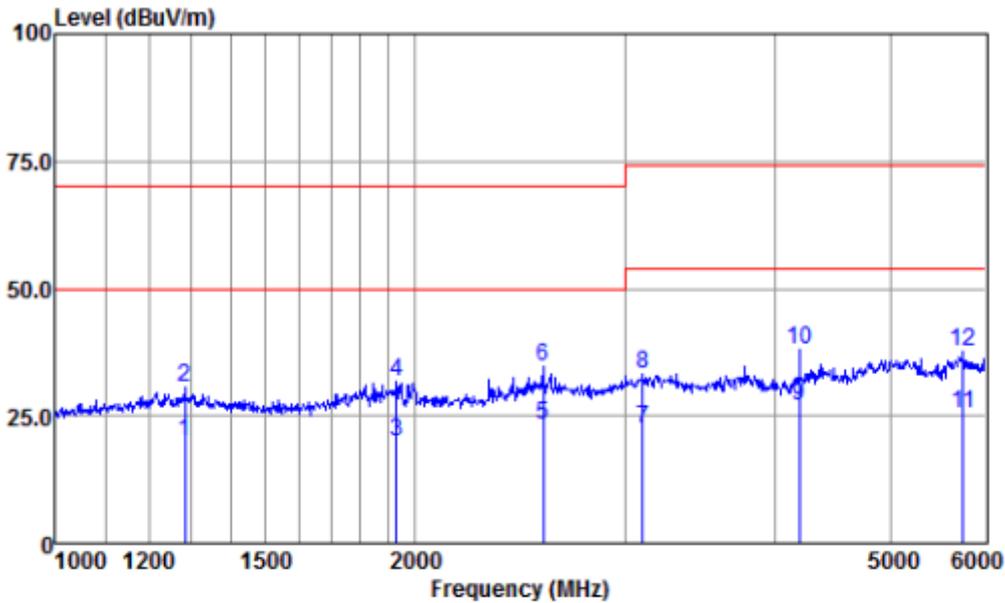
Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :d

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	1253.28	32.85	24.71	3.45	41.85	19.16	50.00	-30.84	Average
2	1253.28	43.00	24.71	3.45	41.85	29.31	70.00	-40.69	Peak
3	1593.38	34.57	25.37	3.97	41.99	21.92	50.00	-28.08	Average
4	1593.38	45.06	25.37	3.97	41.99	32.41	70.00	-37.59	Peak
5	2594.04	35.69	27.63	5.42	42.08	26.66	50.00	-23.34	Average
6	2594.04	46.22	27.63	5.42	42.08	37.19	70.00	-32.81	Peak
7	3745.39	30.18	29.26	6.60	41.91	24.13	54.00	-29.87	Average
8	3745.39	41.24	29.26	6.60	41.91	35.19	74.00	-38.81	Peak
9	5006.77	28.95	31.60	8.19	41.61	27.13	54.00	-26.87	Average
10	5006.77	39.79	31.60	8.19	41.61	37.97	74.00	-36.03	Peak
11	5757.76	27.76	32.27	8.36	41.91	26.48	54.00	-27.52	Average
12	5757.76	39.46	32.27	8.36	41.91	38.18	74.00	-35.82	Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Mode:d; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :d

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	1282.81	33.63	24.78	3.51	41.86	20.06	50.00	-29.94	Average
2	1282.81	44.08	24.78	3.51	41.86	30.51	70.00	-39.49	Peak
3	1930.11	32.02	25.90	4.35	42.19	20.08	50.00	-29.92	Average
4	1930.11	43.62	25.90	4.35	42.19	31.68	70.00	-38.32	Peak
5	2561.71	32.39	27.54	5.42	42.11	23.24	50.00	-26.76	Average
6	2561.71	43.66	27.54	5.42	42.11	34.51	70.00	-35.49	Peak
7	3103.07	29.61	28.57	5.89	41.74	22.33	54.00	-31.67	Average
8	3103.07	40.38	28.57	5.89	41.74	33.10	74.00	-40.90	Peak
9	4200.48	31.32	30.08	7.39	41.83	26.96	54.00	-27.04	Average
10	4200.48	42.42	30.08	7.39	41.83	38.06	74.00	-35.94	Peak
11	5757.76	26.67	32.27	8.36	41.91	25.39	54.00	-28.61	Average
12	5757.76	38.96	32.27	8.36	41.91	37.68	74.00	-36.32	Peak

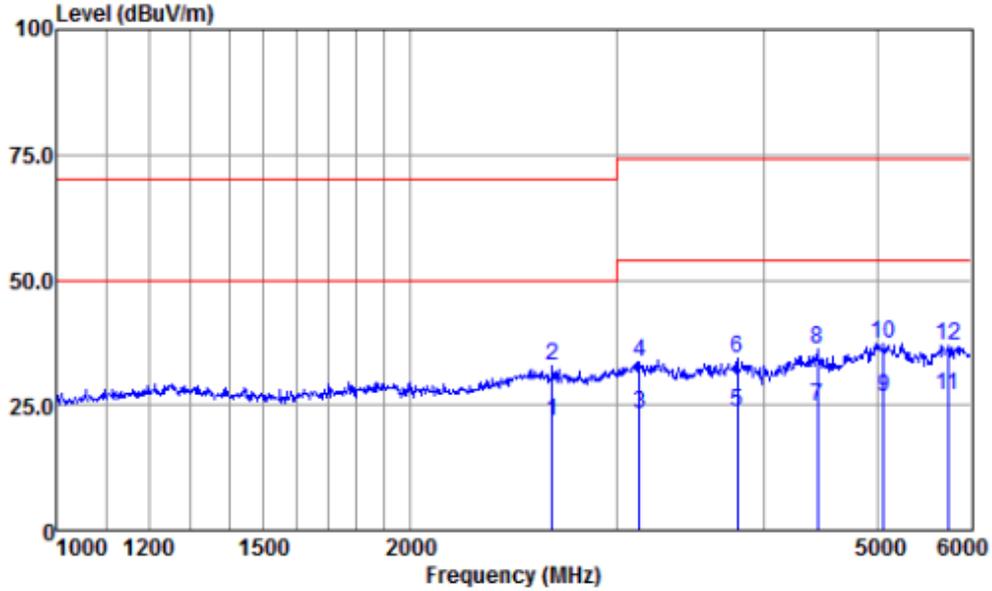
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:e; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :e

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2640.94	30.45	27.73	5.52	42.03	21.67	50.00	-28.33	Average
2	2640.94	41.68	27.73	5.52	42.03	32.90	70.00	-37.10	Peak
3	3136.61	30.51	28.59	5.92	41.76	23.26	54.00	-30.74	Average
4	3136.61	40.75	28.59	5.92	41.76	33.50	74.00	-40.50	Peak
5	3799.47	29.36	29.36	6.70	41.92	23.50	54.00	-30.50	Average
6	3799.47	40.23	29.36	6.70	41.92	34.37	74.00	-39.63	Peak
7	4448.36	28.36	30.51	7.70	41.69	24.88	54.00	-29.12	Average
8	4448.36	39.65	30.51	7.70	41.69	36.17	74.00	-37.83	Peak
9	5069.97	28.23	31.65	8.21	41.67	26.42	54.00	-27.58	Average
10	5069.97	39.15	31.65	8.21	41.67	37.34	74.00	-36.66	Peak
11	5747.46	28.18	32.25	8.36	41.92	26.87	54.00	-27.13	Average
12	5747.46	38.39	32.25	8.36	41.92	37.08	74.00	-36.92	Peak

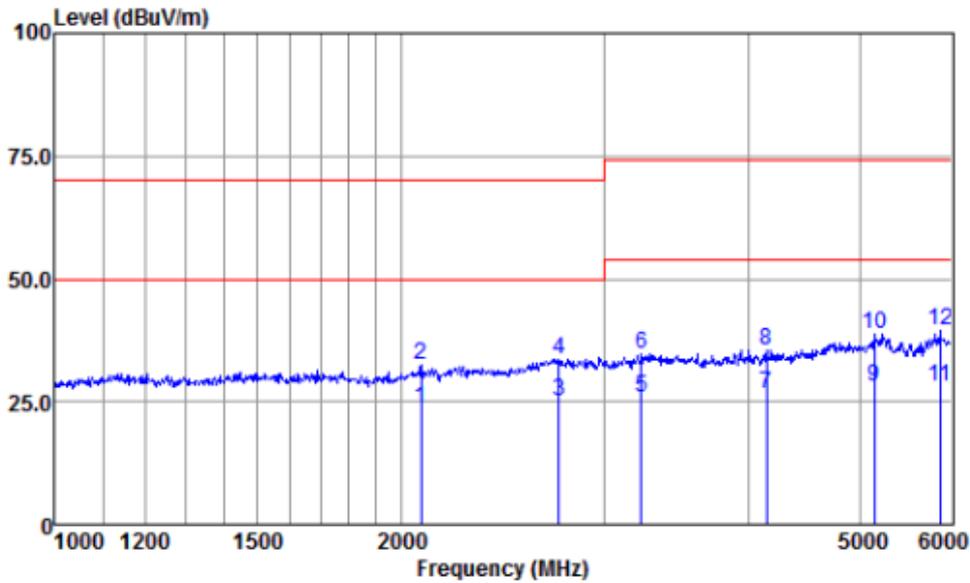
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:e; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :e

	Read Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2080.96	34.83	26.25	4.60	42.21	23.47	50.00	-26.53	Average
2	2080.96	43.77	26.25	4.60	42.21	32.41	70.00	-37.59	Peak
3	2742.20	33.61	27.96	5.61	41.94	25.24	50.00	-24.76	Average
4	2742.20	42.07	27.96	5.61	41.94	33.70	70.00	-36.30	Peak
5	3233.62	32.85	28.65	6.02	41.78	25.74	54.00	-28.26	Average
6	3233.62	41.79	28.65	6.02	41.78	34.68	74.00	-39.32	Peak
7	4148.13	31.00	29.97	7.32	41.87	26.42	54.00	-27.58	Average
8	4148.13	40.04	29.97	7.32	41.87	35.46	74.00	-38.54	Peak
9	5152.39	29.74	31.69	8.22	41.73	27.92	54.00	-26.08	Average
10	5152.39	40.72	31.69	8.22	41.73	38.90	74.00	-35.10	Peak
11	5872.37	29.08	32.41	8.40	41.88	28.01	54.00	-25.99	Average
12	5872.37	40.67	32.41	8.40	41.88	39.60	74.00	-34.40	Peak

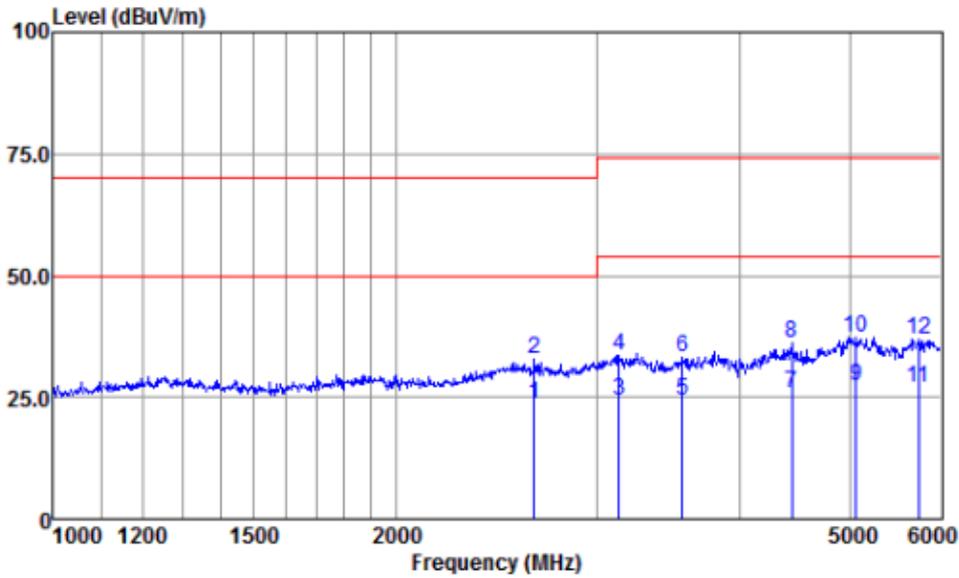
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamplifier Factor



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Mode:f; Polarization:Horizontal



Antenna Polarity :HORIZONTAL  
EUT/Project :2758IT  
Test mode :f

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2640.94	32.45	27.73	5.52	42.03	23.67	50.00	-26.33	Average
2	2640.94	41.68	27.73	5.52	42.03	32.90	70.00	-37.10	Peak
3	3136.61	31.46	28.59	5.92	41.76	24.21	54.00	-29.79	Average
4	3136.61	40.75	28.59	5.92	41.76	33.50	74.00	-40.50	Peak
5	3568.51	31.05	28.93	6.33	41.87	24.44	54.00	-29.56	Average
6	3568.51	39.64	28.93	6.33	41.87	33.03	74.00	-40.97	Peak
7	4448.36	29.36	30.51	7.70	41.69	25.88	54.00	-28.12	Average
8	4448.36	39.65	30.51	7.70	41.69	36.17	74.00	-37.83	Peak
9	5069.97	29.03	31.65	8.21	41.67	27.22	54.00	-26.78	Average
10	5069.97	39.15	31.65	8.21	41.67	37.34	74.00	-36.66	Peak
11	5747.46	28.18	32.25	8.36	41.92	26.87	54.00	-27.13	Average
12	5747.46	38.39	32.25	8.36	41.92	37.08	74.00	-36.92	Peak

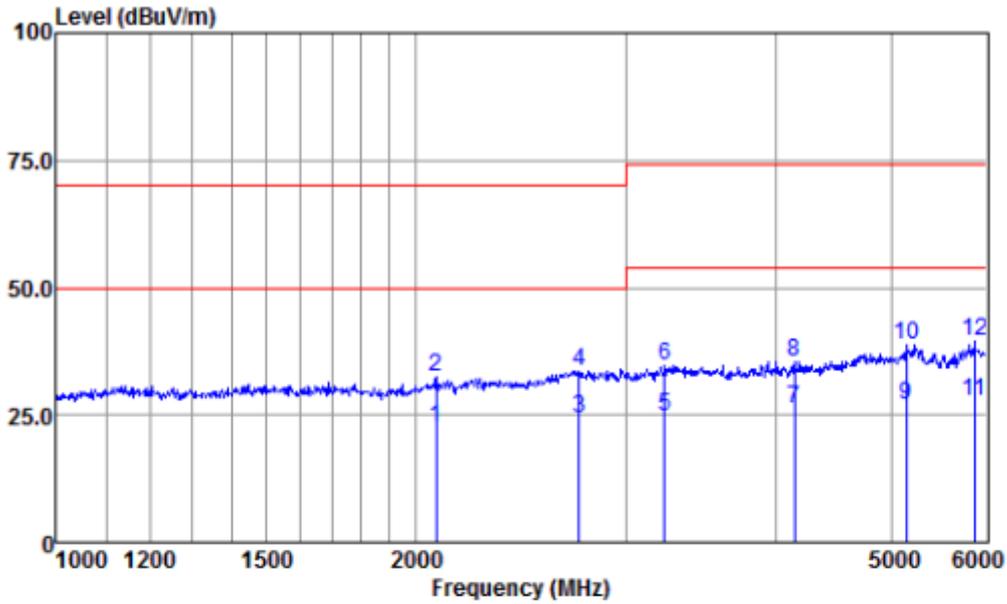
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Report No.: SHEM191202005701  
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Mode:f; Polarization:Vertical



Antenna Polarity :VERTICAL  
EUT/Project :2758IT  
Test mode :f

	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	2080.96	33.83	26.25	4.60	42.21	22.47	50.00	-27.53 Average
2	2080.96	43.77	26.25	4.60	42.21	32.41	70.00	-37.59 Peak
3	2742.20	32.61	27.96	5.61	41.94	24.24	50.00	-25.76 Average
4	2742.20	42.07	27.96	5.61	41.94	33.70	70.00	-36.30 Peak
5	3233.62	31.85	28.65	6.02	41.78	24.74	54.00	-29.26 Average
6	3233.62	41.79	28.65	6.02	41.78	34.68	74.00	-39.32 Peak
7	4148.13	30.71	29.97	7.32	41.87	26.13	54.00	-27.87 Average
8	4148.13	40.04	29.97	7.32	41.87	35.46	74.00	-38.54 Peak
9	5152.39	28.74	31.69	8.22	41.73	26.92	54.00	-27.08 Average
10	5152.39	40.72	31.69	8.22	41.73	38.90	74.00	-35.10 Peak
11	5872.37	28.78	32.41	8.40	41.88	27.71	54.00	-26.29 Average
12	5872.37	40.67	32.41	8.40	41.88	39.60	74.00	-34.40 Peak

Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



## **6.5 Harmonic Current Emission**

Test Requirement: EN 61000-3-2:2014

Test Method: EN 61000-3-2:2014

Frequency Range: 100Hz to 2kHz

There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with EN 61000-3-2:2014.

For further details, please refer to Clause 7 of EN 61000-3-2 which states:

"For the following categories of equipment, limits are not specified in this standard.- equipment with a rated power of 75W or less, other than lighting equipment."

## 6.6 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013

Test Method: EN 61000-3-3:2013

### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 51 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .

b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

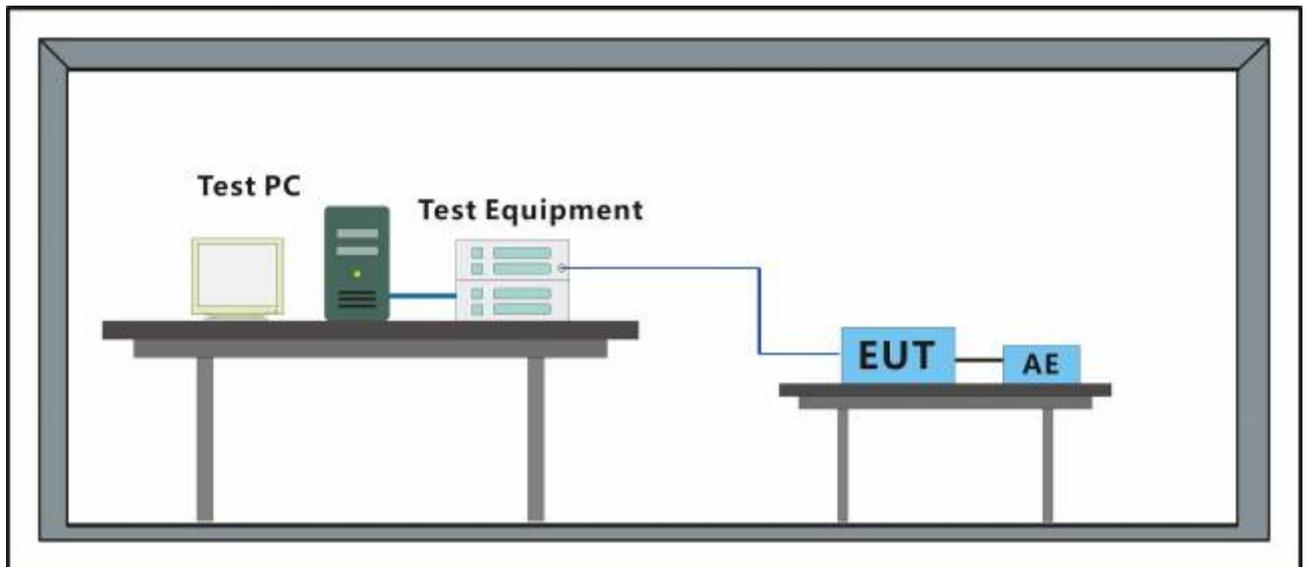
c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .

d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

e:I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .

f:I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

### 6.6.2 Test Setup Diagram



### 6.6.3 Measurement Data

#### For old model

Mode:a

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.73			
Highest dc (%):	0.69	Test limit (%):	3.30	Pass
Highest dmax (%):	0.95	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.526	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.175	Test limit:	0.650	Pass



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## Mode:b

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.73			
Highest dc (%):	1.24	Test limit (%):	3.30	Pass
Highest dmax (%):	1.57	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.324	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.104	Test limit:	0.650	Pass

## For new model

### Mode:c

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.99			
T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.81	Test limit (%):	3.30	Pass
Highest dmax (%):	0.78	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.387	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.154	Test limit:	0.650	Pass

### Mode:d

Vrms at the end of test (Volt):	229.96			
T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.224	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.098	Test limit:	0.650	Pass

### Mode:e

Parameter values recorded during the test:

Vrms at the end of test (Volt):	229.97			
T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.76	Test limit (%):	3.30	Pass
Highest dmax (%):	0.88	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.415	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.198	Test limit:	0.650	Pass

### Mode:f

Parameter values recorded during the test:

Vrms at the end of test (Volt):	230.01			
T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.76	Test limit (%):	3.30	Pass
Highest dmax (%):	0.88	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.415	Test limit:	1.000	Pass



## **7 Immunity Test Results**

### **7.1 Performance Criteria Description in EN 50130-4:2011 +A1:2014**

There shall be no damage, malfunction or change of status due to the conditioning. Flickering of an indicator during the application of the discharges is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change.

For further details, please refer to Clause 7.4, 8.4, 9.4, 10.4, 11.4, 12.4 and 13.4, of EN 50130-4.





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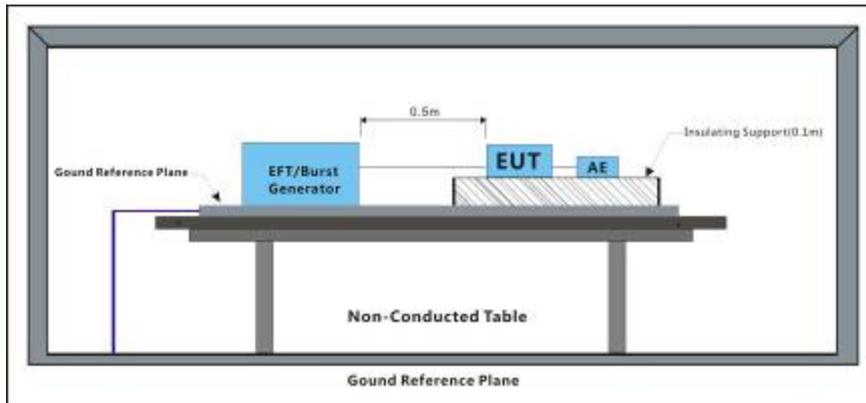
## Results:

A: No degradation in the performance of the EUT was observed.

### 7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-4:2012  
 Repetition Frequency: 100kHz  
 Burst Period: 300ms  
 Test Duration: 1 minute per level & polarity

#### 7.3.1 Test Setup Diagram



#### 7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

#### 7.3.3 Test Results:

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	2	+	CDN	A
AC power port	2	-	CDN	A

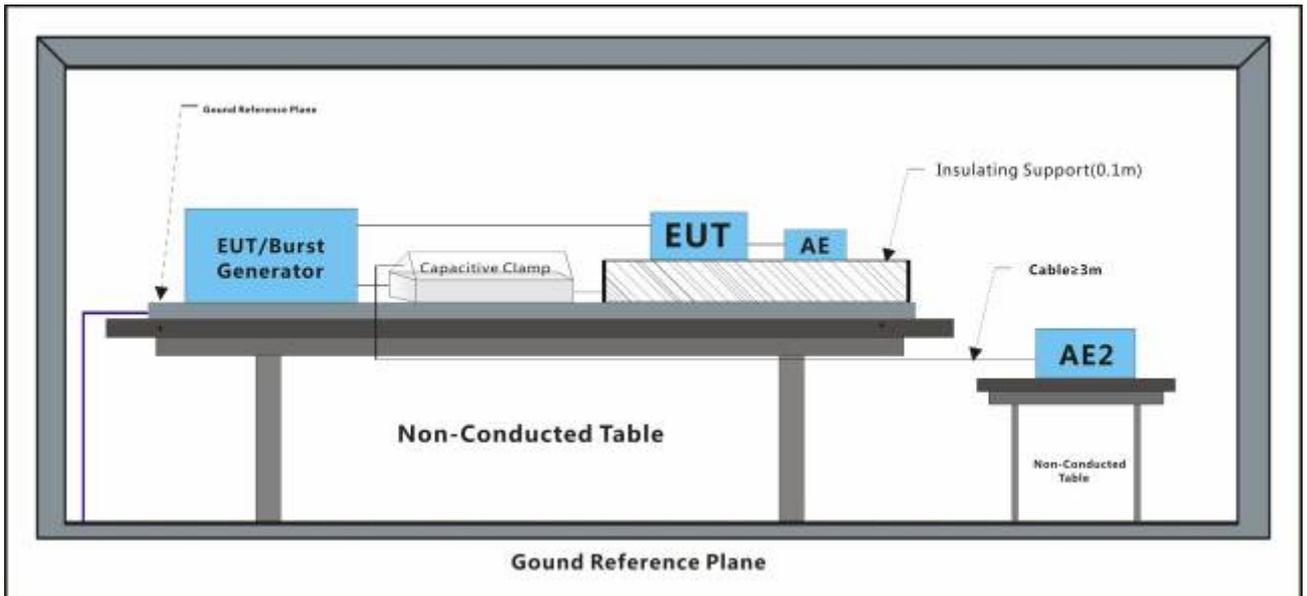
#### Results:

A: No degradation in the performance of the EUT was observed.

### 7.4 Electrical Fast Transients/Burst at Signal Port

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-4:2012  
 Repetition Frequency: 100kHz  
 Burst Period: 300ms  
 Test Duration: 1 minute per level & polarity

#### 7.4.1 Test Setup Diagram



#### 7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C  
 Humidity: Hu 48 % RH  
 Atmospheric Pressure: 1010 mbar

Test mode:

- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

#### 7.4.3 Test Results:

Port	Level (kV)	Polarity	CDN/Clamp	Result / Observations
Signal port	1	+	Clamp	A
Signal port	1	-	Clamp	A

**Results:**



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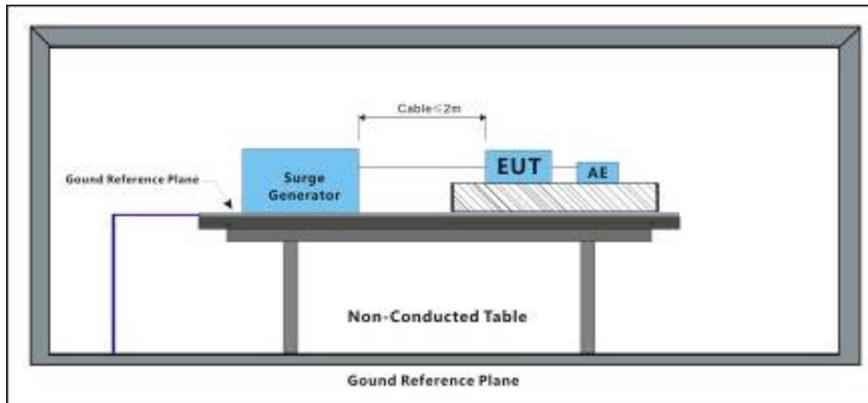
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A: No degradation in the performance of the EUT was observed.

### 7.5 Surge at Power Port

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-5:2014  
 Interval: 60s between each surge  
 No. of surges: 5 positive, 5 negative

#### 7.5.1 Test Setup Diagram



#### 7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Test mode:

- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- e:I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- f:I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

#### 7.5.3 Test Results:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	0.5	+	0	A
L-N	0.5	-	0	A
L-N	0.5	+	90	A
L-N	0.5	-	90	A
L-N	0.5	+	180	A
L-N	0.5	-	180	A
L-N	0.5	+	270	A
L-N	0.5	-	270	A
L-N	1	+	0	A
L-N	1	-	0	A
L-N	1	+	90	A



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L-N	1	-	90	A
L-N	1	+	180	A
L-N	1	-	180	A
L-N	1	+	270	A
L-N	1	-	270	A
L-PE	2	+	0	A
L-PE	2	-	0	A
L-PE	2	+	90	A
L-PE	2	-	90	A
L-PE	2	+	180	A
L-PE	2	-	180	A
L-PE	2	+	270	A
L-PE	2	-	270	A
N-PE	2	+	0	A
N-PE	2	-	0	A
N-PE	2	+	90	A
N-PE	2	-	90	A
N-PE	2	+	180	A
N-PE	2	-	180	A
N-PE	2	+	270	A
N-PE	2	-	270	A

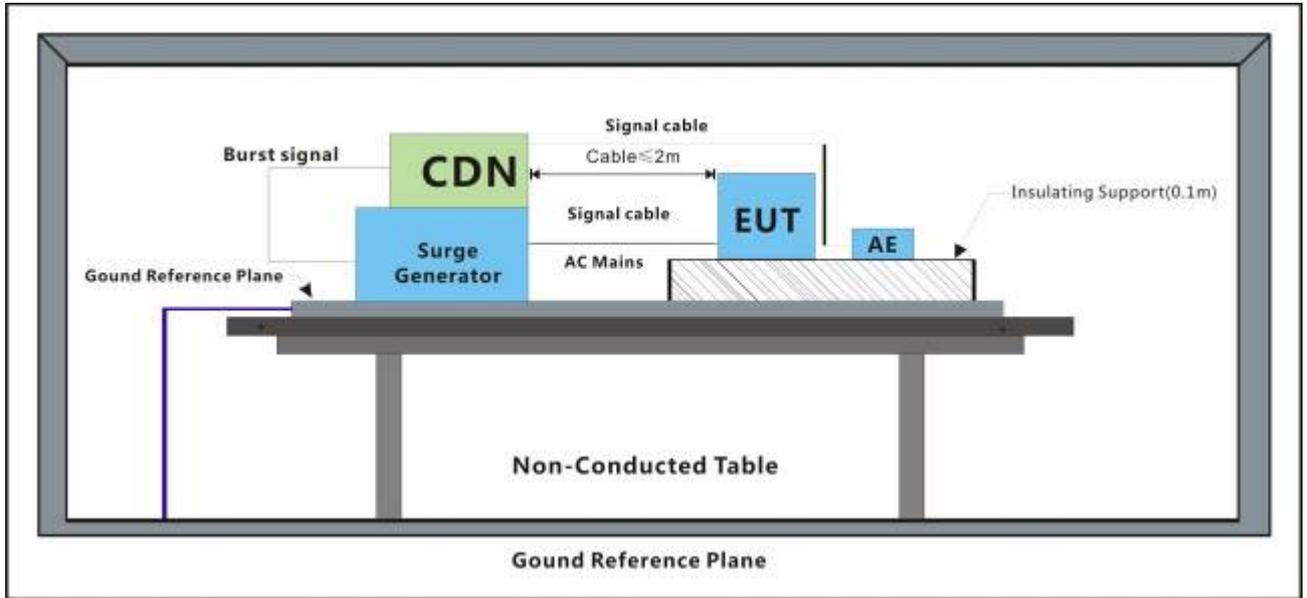
**Results:**

A: No degradation in the performance of the EUT was observed.

### 7.6 Surge at Signal Port

Test Requirement: EN 50130-4:2011 +A1:2014  
Test Method: EN 61000-4-5:2014

#### 7.6.1 Test Setup Diagram



#### 7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C  
Humidity: 48 % RH  
Pressure: Atmospheric 1010 mbar

Test mode:

- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

#### 7.6.3 Test Results:

Port	Line	Level (kV)	Polarity	Result / Observations
Signal port	Line-Ground	0.5	+	A
Signal port	Line-Ground	0.5	-	A
Signal port	Line-Ground	1	+	A
Signal port	Line-Ground	1	-	A



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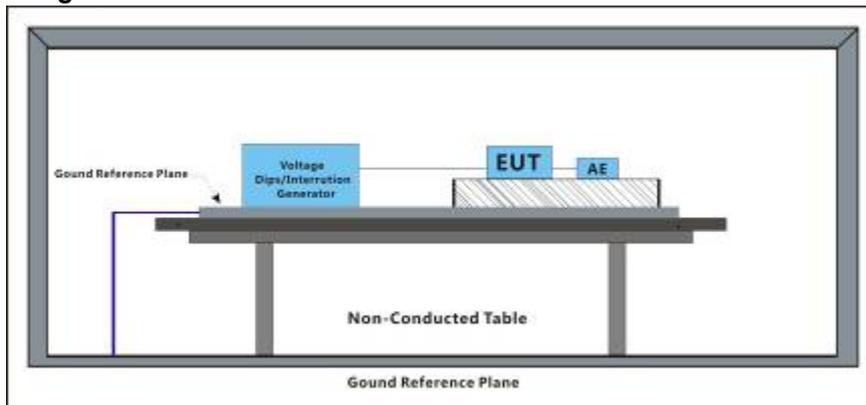
## Results:

A: No degradation in the performance of the EUT was observed.

## 7.7 Voltage Dips and Interruptions

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-11:2004  
 Performance Criterion: 0% of UT (Supply Voltage) for 250 Periods; 40% of UT for 10 Periods; 70% of UT for 25 Periods; 80% of UT for 250 Periods;  
 No. of Dips / Interruptions: 3 per Level  
 Time between dropout 10s

### 7.7.1 Test Setup Diagram



### 7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Test mode:

- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
- e:I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
- f:I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

### 7.7.3 Test Results:

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
80	0°	250 Cycles	3	A
80	180°	250 Cycles	3	A
70	0°	25 Cycles	3	A
70	180°	25 Cycles	3	A
40	0°	10 Cycles	3	A
40	180°	10 Cycles	3	A
0	0°	250 Cycles	3	C
0	180°	250 Cycles	3	C

#### Results:

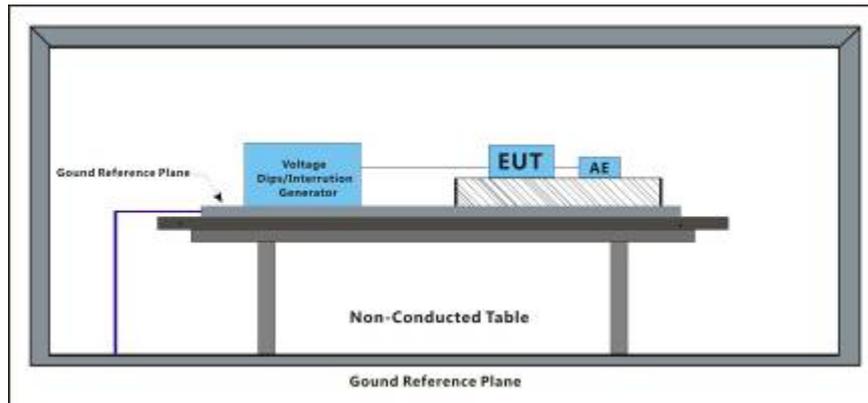
A: No degradation in the performance of the EUT was observed.

C: During test, EUT stop work, After test ,EUT restart by operator

## 7.8 Mains Supply Voltage Variations-Conditioning

Test Requirement:	EN 50130-4:2011 +A1:2014
Test Method:	EN 50130-4:2011+A1:2014
Voltage max.:	AC 253V ( Umax: Unom + 10%)
Voltage min.:	AC 195.55V (Umin: Unom - 15%)
Unom Voltage:	AC 230V

### 7.8.1 Test Setup Diagram



### 7.8.2 E.U.T. Operation

Operating Environment:

Temperature: 22 °C      Humidity: 48 % RH      Atmospheric Pressure: 1010 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

### 7.8.3 Test Results:

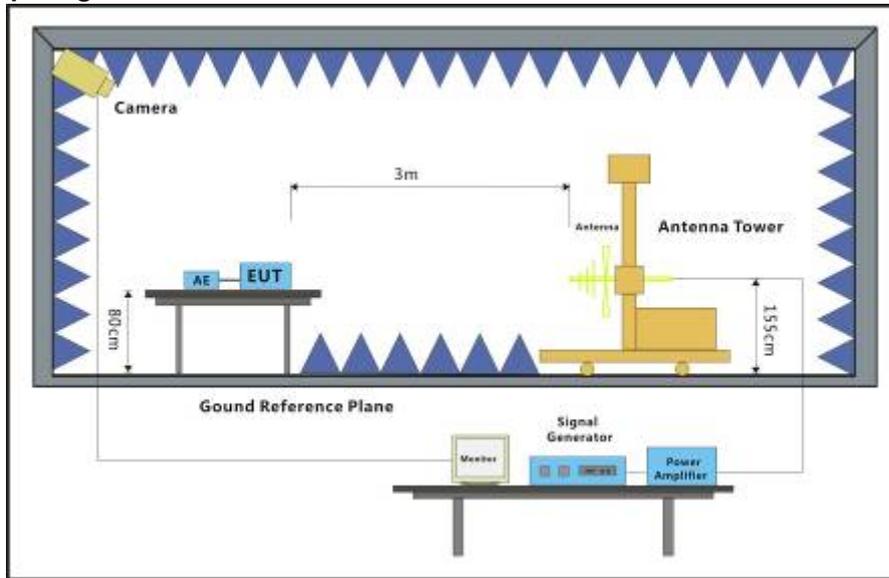
#### Test phenomenon description for the EUT:

1. The EUT working normal, before the conditioning.
2. Monitor the EUT during the conditioning period and detected no any changes in states, during the conditioning.
3. No degradation in the performance of the EUT was observed, after the conditioning.

### 7.9 Radiated Immunity(80MHz-2.7GHz)

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010  
 Modulation: 80%, 1 kHz Amplitude Modulation & 0.5s ON 0.5s OFF Pulse Modulation

#### 7.9.1 Test Setup Diagram



#### 7.9.2 E.U.T. Operation

Operating Environment:  
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar  
 Test mode:  
 a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .  
 b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .  
 c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .  
 d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .  
 e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .  
 f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support ..

#### 7.9.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-2.7GHz	10	Front	3s	A
80MHz-2.7GHz	10	Back	3s	A
80MHz-2.7GHz	10	Left	3s	A
80MHz-2.7GHz	10	Right	3s	A
80MHz-2.7GHz	10	Top	3s	A
80MHz-2.7GHz	10	Underside	3s	A

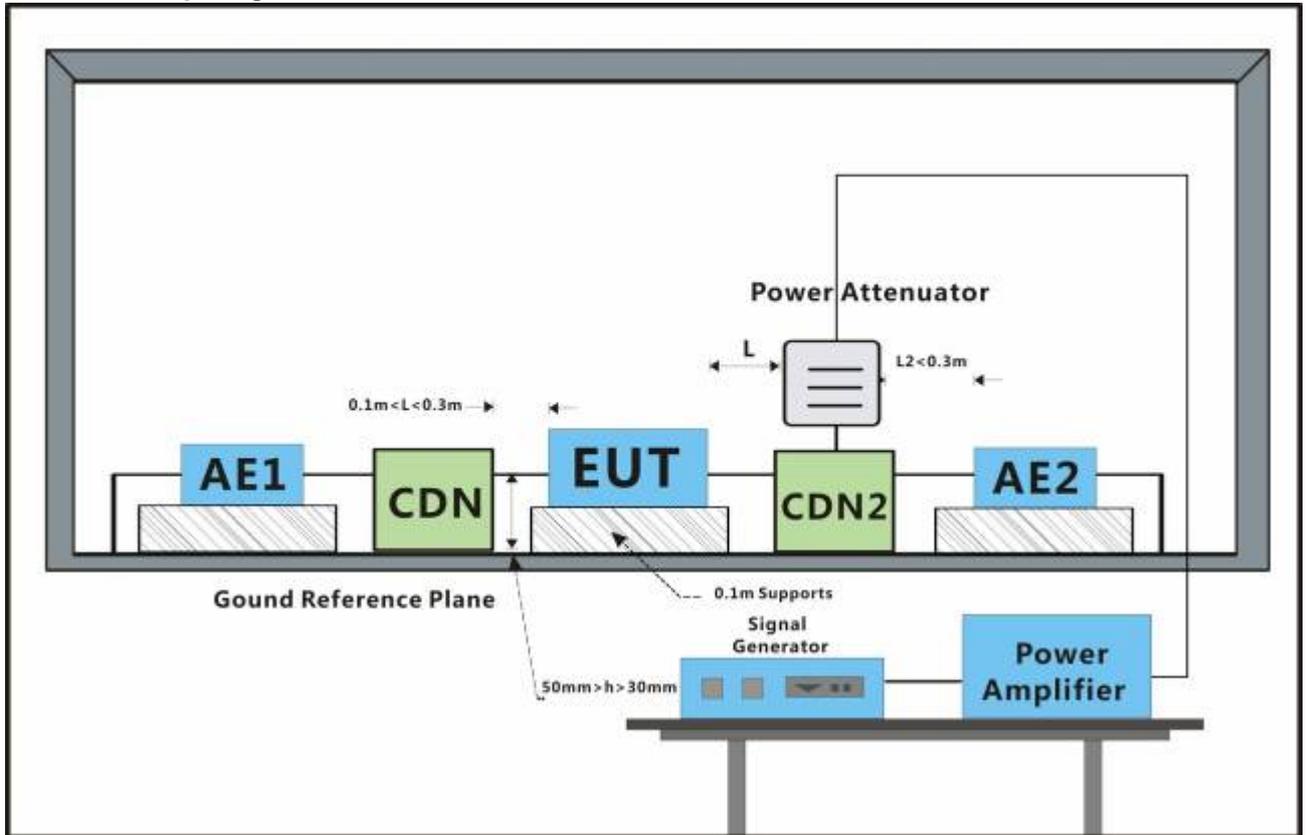
#### Results:

A: No degradation in the performance of the EUT was observed.

**7.10 Conducted Immunity at Power Port (150kHz-100MHz)**

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-6:2014  
 Modulation: 80%, 1 kHz Amplitude Modulation & 0.5s ON 0.5s OFF Pulse Modulation

**7.10.1 Test Setup Diagram**



**7.10.2 E.U.T. Operation**

Operating Environment:

Temperature: 22 °C  
 Humidity: 50 % RH  
 Atmospheric Pressure: 1005 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .

**7.10.3 Test Results:**

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
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AC power port	10	CDN	3s	A
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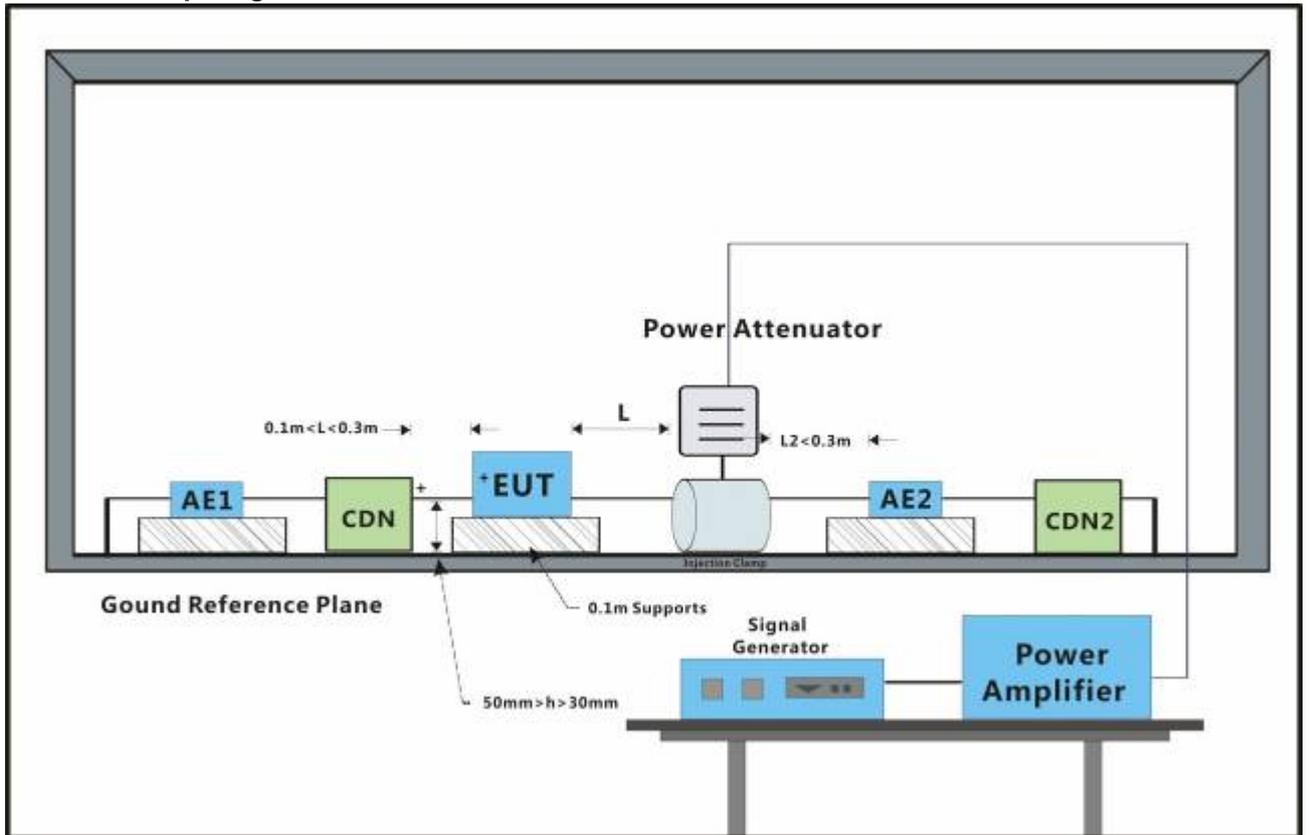
**Results:**

A: No degradation in the performance of the EUT was observed.

**7.11 Conducted Immunity at Signal Port (150kHz-100MHz)**

Test Requirement: EN 50130-4:2011 +A1:2014  
 Test Method: EN 61000-4-6:2014  
 Modulation: 80%, 1 kHz Amplitude Modulation & 0.5s ON 0.5s OFF Pulse Modulation

**7.11.1 Test Setup Diagram**



**7.11.2 E.U.T. Operation**

Operating Environment:

Temperature: 22 °C  
 Humidity: 50 % RH  
 Pressure: Atmospheric 1005 mbar

- Test mode:
- a: I51DJ previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - b: I51DJ previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - c: I51DB previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - d: I51DB previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support .
  - e: I51DC previewing with DC12V support : connect EUT to laptop , keep EUT previewing by DC12V support .
  - f: I51DC previewing with PoE support : connect EUT to laptop , keep EUT previewing by PoE support ..



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### 7.11.3 Test Results:

Port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
Signal Port	10	Coupling	3s	A

#### Results:

A: No degradation in the performance of the EUT was observed.

## 8 Photographs

### 8.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



## 8.2 Asymmetric Mode Conducted Emissions (150kHz-30MHz) Test Setup



### 8.3 Radiated Emissions (30MHz-1GHz) Test Setup



**8.4 Radiated Emissions (above 1GHz) Test Setup**



### 8.5 Voltage Fluctuations and Flicker Test Setup



### 8.6 Electrostatic Discharge Test Setup



### 8.7 Electrical Fast Transients/Burst at Power Port Test Setup



### 8.8 Electrical Fast Transients/Burst at Signal Port Test Setup



### 8.9 Surge at Power Port Test Setup



### 8.10 Surge at Signal Port Test Setup



### 8.11 Voltage Dips and Interruptions Test Setup



### 8.12 Mains Supply Voltage Variations-Conditioning Test Setup



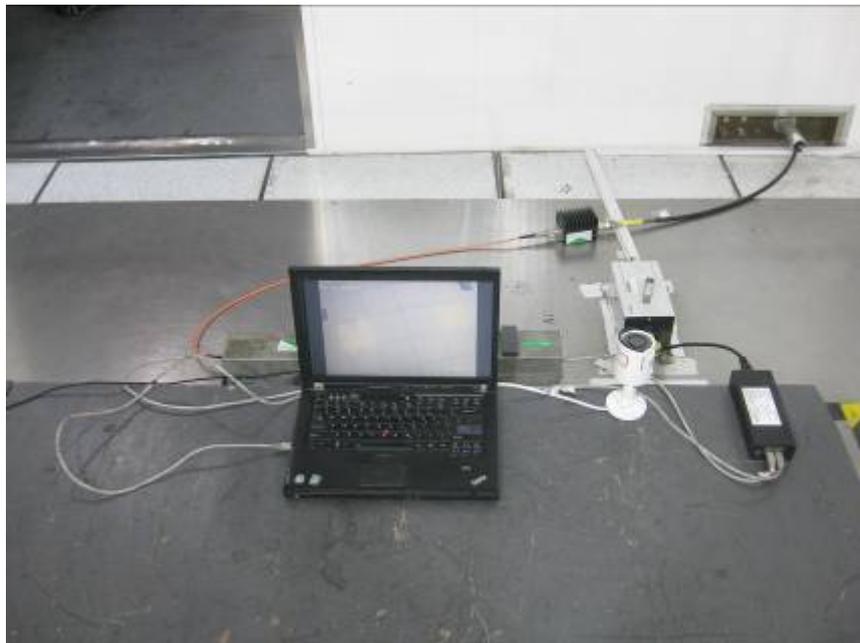
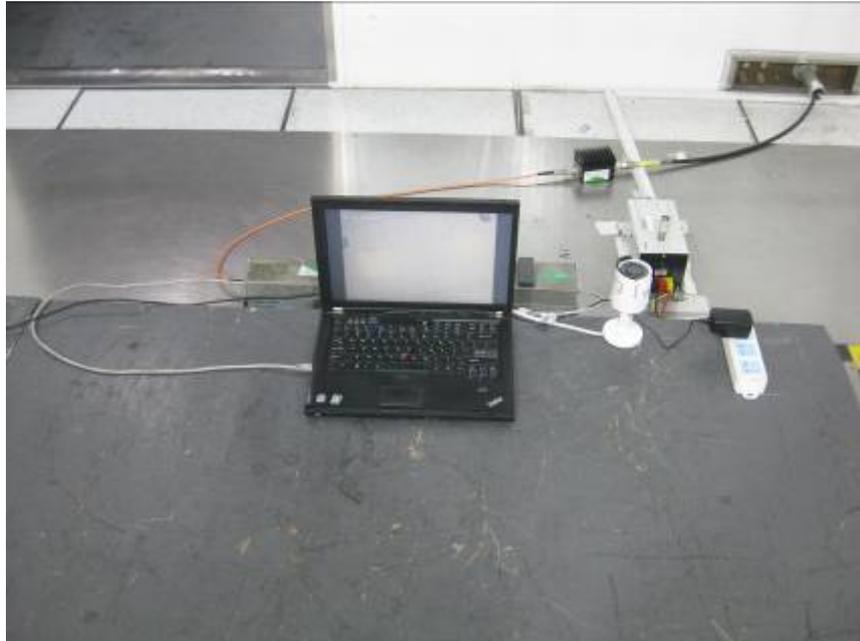
### 8.13 Radiated Immunity(80MHz-2.7GHz) Test Setup



### 8.14 Conducted Immunity at Power Port (150kHz-100MHz) Test Setup



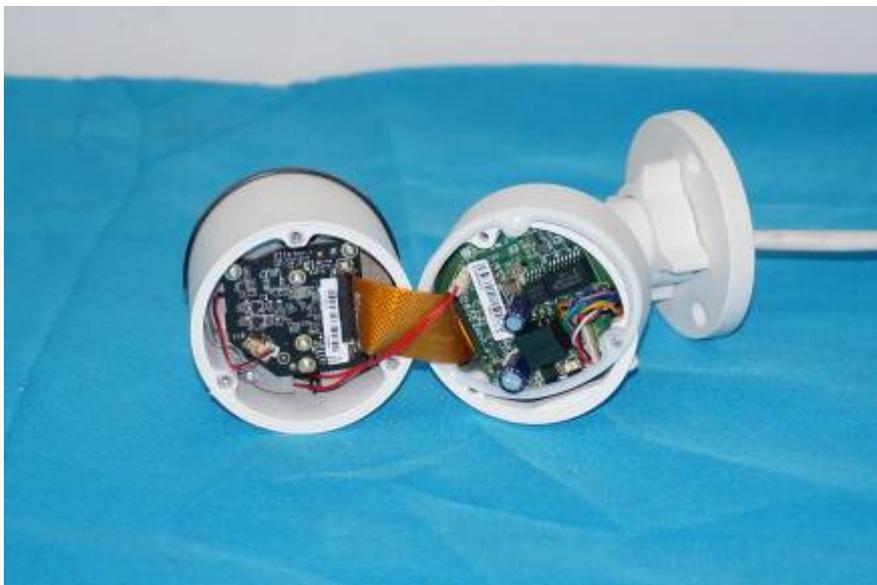
### 8.15 Conducted Immunity at Signal Port (150kHz-100MHz) Test Setup

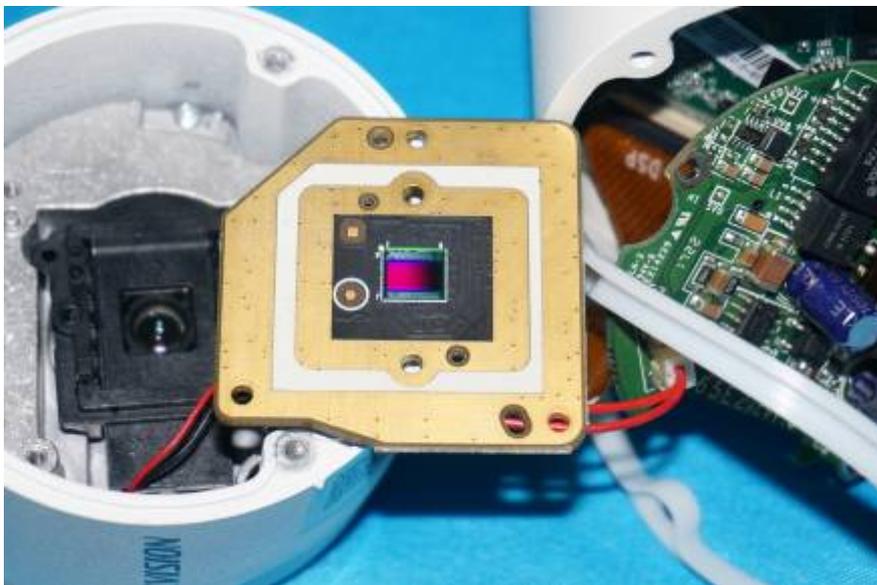


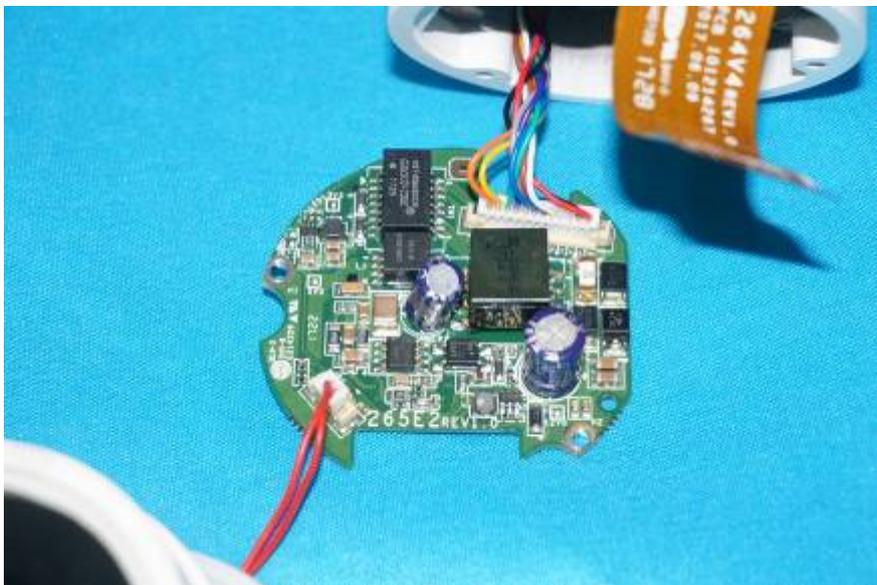
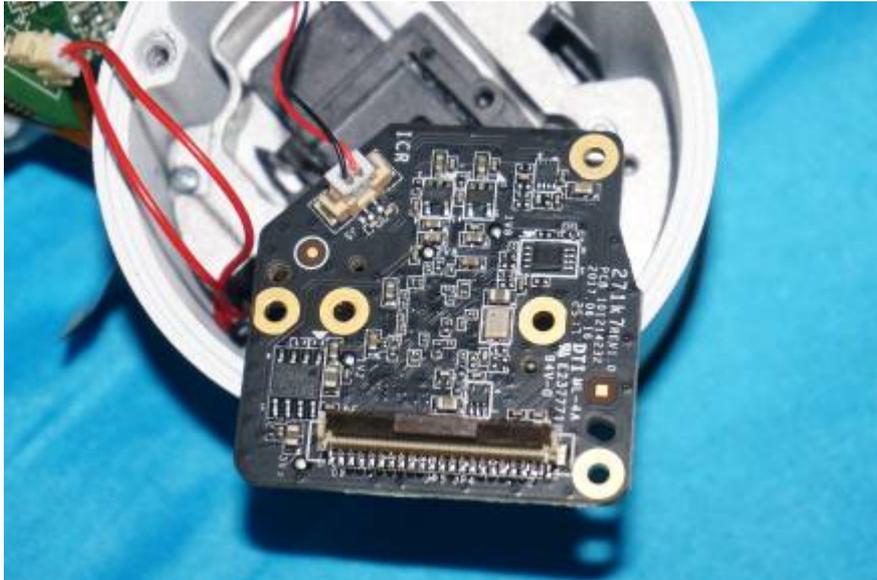
### 8.16 EUT Constructional Details

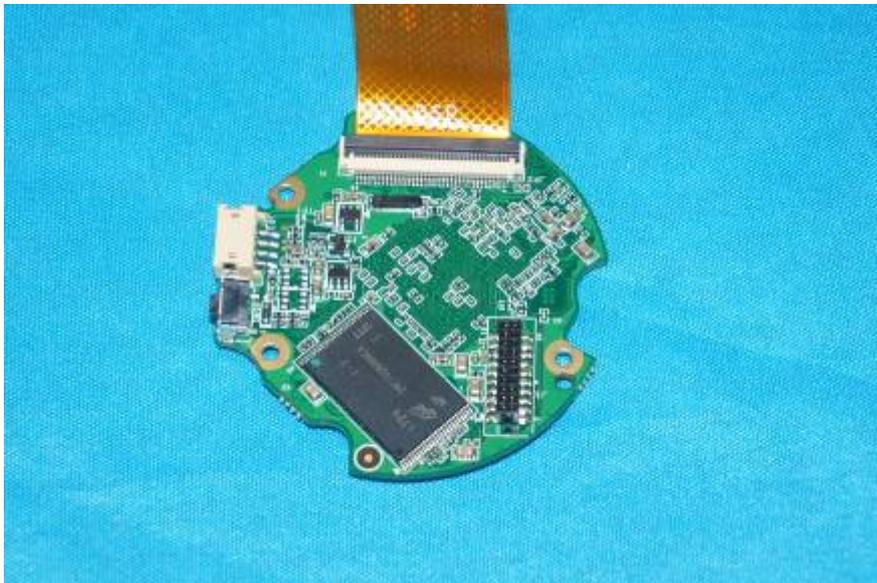
For old model







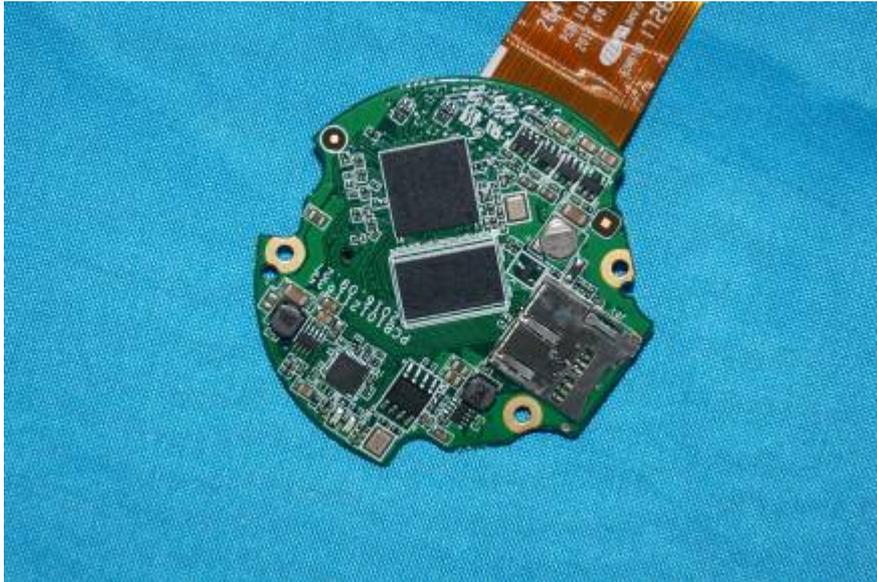






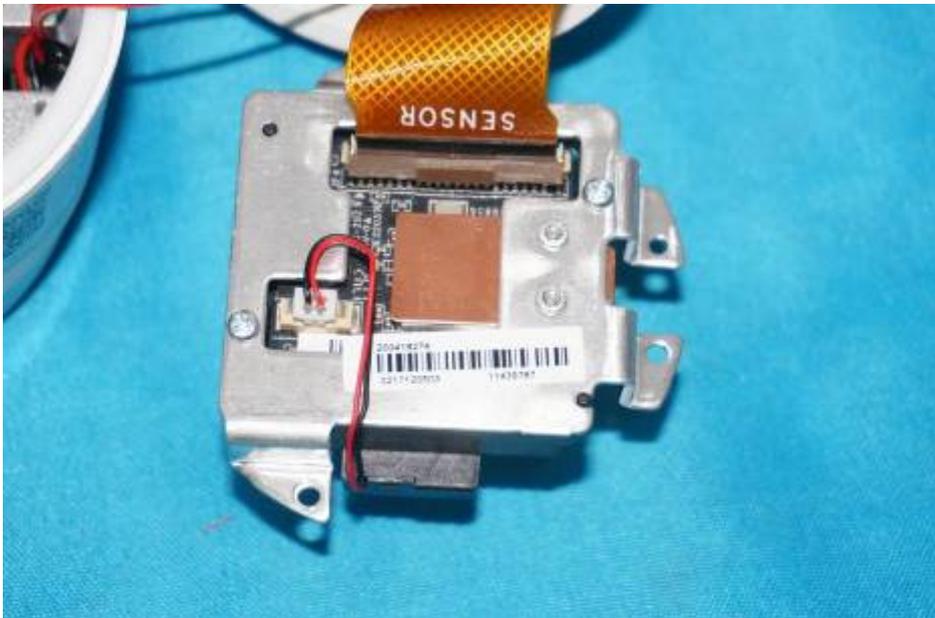
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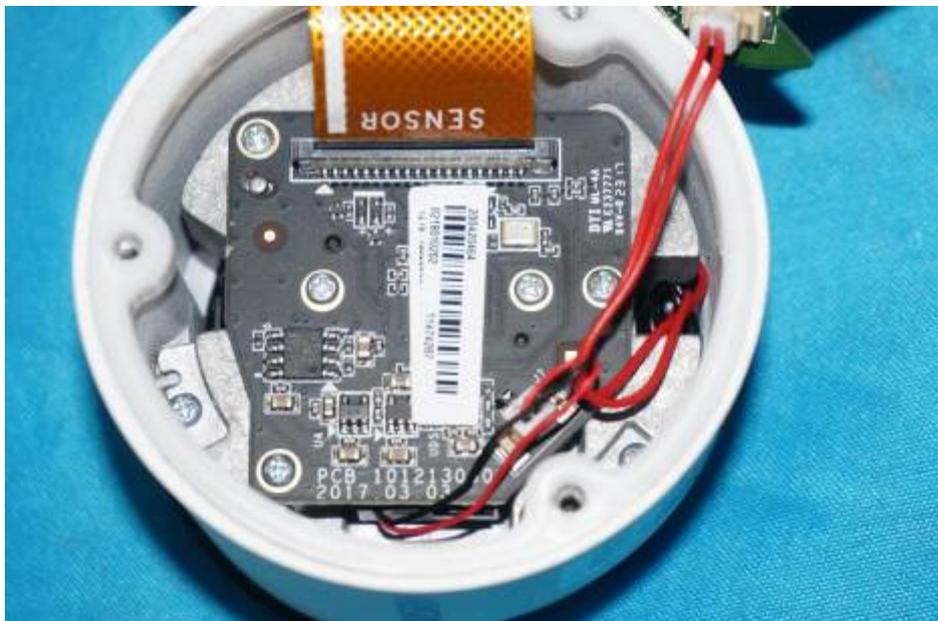
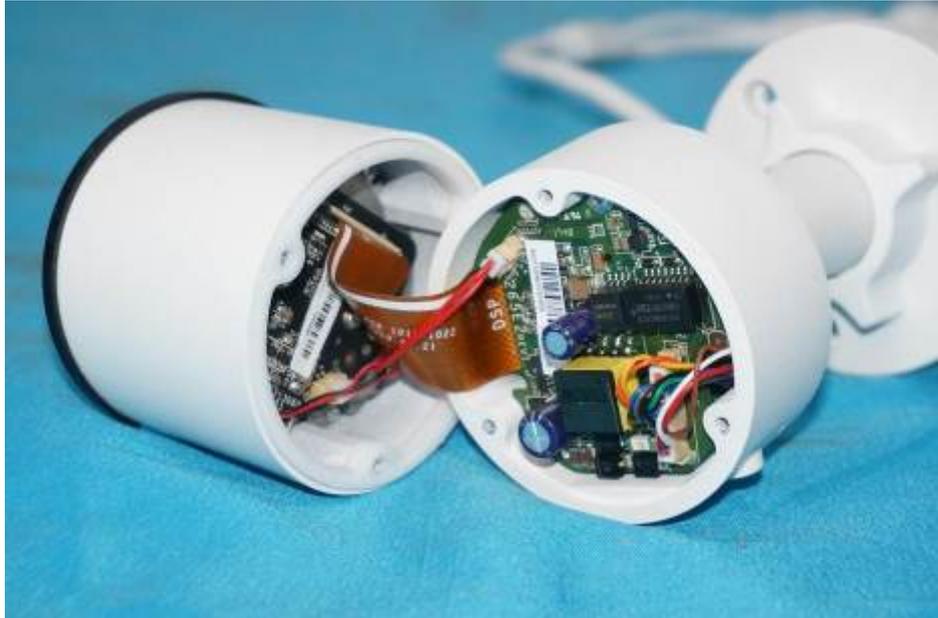
For new model

















**--End of the Report--**