



EMC TEST REPORT

Certificate No. : TBC-C-202511-0003-1
Report No : TBR-C-202511-0003-3
Applicant : NEO Smart Technology (GuangDong) Co., LTD
Equipment Under Test (EUT)
EUT Name : Soil Sensor
Model No. : NAS-STH02W
Series Model No. : NAS-STH01W, NAS-STH03W, NAS-STH04W, NAS-STH05W,
NAS-STH06W, NAS-STH07W, NAS-STH08W
Brand Name : NEO
Receipt Date : 2025-11-12
Test Date : 2025-11-12 to 2025-11-19
Issue Date : 2025-11-19
Standards : ETSI EN 301 489-1 V2.2.3: 2019-11
ETSI EN 301 489-17 V3.3.1: 2024-09
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the Council Directive 2014/53/EU relating to radio equipment.

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Reviewed By : Henry Huang Henry Huang
Approved By : Ivan Su Ivan Su

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TABLE OF CONTENTS

1	GENERAL INFORMATION	5
1.1	Client Information	5
1.2	General Description of EUT (Equipment Under Test)	5
1.3	Block Diagram Showing the Configuration of System Tested	6
1.4	Description of Support Units	6
1.5	Description of Operating Mode	7
1.6	Performance Criteria	8
1.7	Measurement Uncertainty	11
1.8	Test Facility	11
2	TEST RESULTS SUMMARY	12
3	TEST SOFTWARE	13
4	TEST EQUIPMENT AND TEST SITE	14
5	CONDUCTED DISTURBANCE TEST(AC PORT)	16
5.1	Test Standard and Limit	16
5.2	Test Setup	16
5.3	Test Procedure	17
5.4	Deviation From Test Standard	17
5.5	Test Data	17
6	CONDUCTED EMISSIONS(WIRED NETWORK PORT)	18
6.1	Test Standard and Limit	18
6.2	Test Setup	19
6.3	Test Procedure	20
6.4	Deviation From Test Standard	20
6.5	Test Data	20
7	RADIATED EMISSION TEST	21
7.1	Test Standard and Limit	21
7.2	Test Setup	22
7.3	Test Procedure	23
7.4	Deviation From Test Standard	23
7.5	Test Data	23
8	HARMONIC CURRENT EMISSION TEST	24
8.1	Test Standard and Limit	24
8.2	Test Setup	24
8.3	Test Procedure	24
8.4	Deviation From Test Standard	24
8.5	Test Data	24
9	VOLTAGE FLUCTUATION AND FLICKER TEST	25
9.1	Test Standard and Limit	25
9.2	Test Setup	25
9.3	Test Procedure	25
9.4	Deviation From Test Standard	25
9.5	Test Data	25
10	ELECTROSTATIC DISCHARGE IMMUNITY TEST	26
10.1	Test Standard and Limit	26
10.2	Test Procedure	26
10.3	Deviation From Test Standard	26
10.4	Test Data	26



11	RADIATED ELECTROMAGNETIC FIELD IMMUNITY TEST	27
11.1	Test Standard and Limit	27
11.2	Test Setup.....	27
11.3	Test Procedure.....	28
11.4	Deviation From Test Standard.....	28
11.5	Test Data.....	28
12	ELECTRICAL FAST TRANSIENT/BURST TEST	29
12.1	Test Standard and Limit	29
12.2	Test Setup.....	29
12.3	Test Procedure.....	29
12.4	Deviation From Test Standard.....	29
12.5	Test Data.....	29
13	SURGE IMMUNITY TEST	30
13.1	Test Standard and Limit	30
13.2	Test Setup.....	30
13.3	Test Procedure.....	30
13.4	Deviation From Test Standard.....	30
13.5	Test Data.....	30
14	RF COMMON MODE.....	31
14.1	Test Standard and Limit	31
14.2	Test Setup.....	31
14.2	Test Procedure.....	31
14.3	Deviation From Test Standard.....	32
14.4	Test Data.....	32
15	VOLTAGE DIPS AND INTERRUPTIONS IMMUNITY TEST	33
15.1	Test Standard and Limit	33
15.2	Test Setup.....	33
15.2	Test Procedure.....	33
15.3	Deviation From Test Standard.....	33
15.4	Test Data.....	33
16	PHOTOGRAPHS - CONSTRUCTIONAL DETAILS	34
17	PHOTOGRAPHS - TEST SETUP	39
	ATTACHMENT A--RADIATED EMISSION TEST DATA	41
	ATTACHMENT B--ELECTROSTATIC DISCHARGE TEST DATA	45
	ATTACHMENT C--RF FIELD STRENGTH SUSCEPTIBILITY TEST DATA.....	47



Revision History

Report No.	Version	Description	Issued Date
TBR-C-202511-0003-3	Rev.01	Initial issue of report	2025-11-19



1 General Information

1.1 Client Information

Applicant	:	NEO Smart Technology (GuangDong) Co., LTD
Address	:	Floor 7, 8, 9, 10, Building 28, No. 29, Licheng Industrial Avenue, Shuikou Street, Huicheng District, Huizhou City,China
Manufacturer	:	NEO Smart Technology (GuangDong) Co., LTD
Address	:	Floor 7, 8, 9, 10, Building 28, No. 29, Licheng Industrial Avenue, Shuikou Street, Huicheng District, Huizhou City,China

1.2 General Description of EUT (Equipment Under Test)

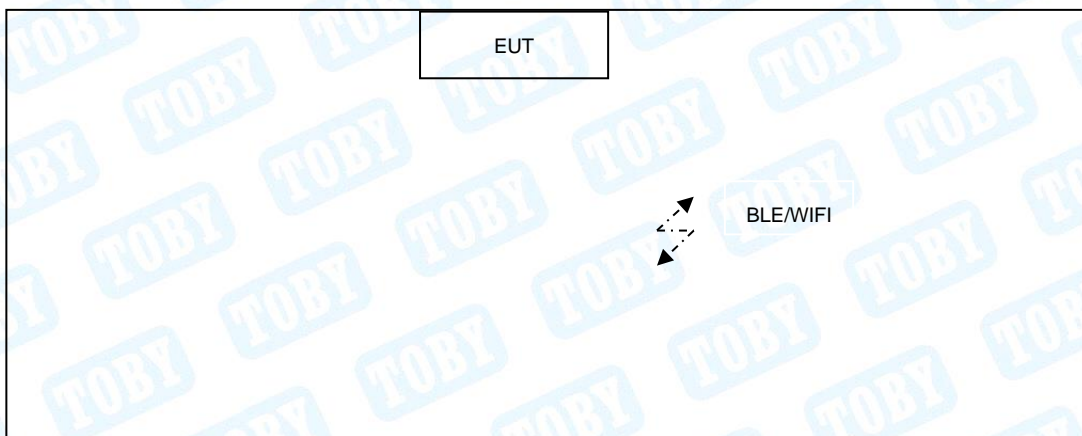
EUT Name	:	Soil Sensor
Model(s)	:	NAS-STH02W,NAS-STH01W, NAS-STH03W, NAS-STH04W, NAS-STH05W, NAS-STH06W, NAS-STH07W, NAS-STH08W
Model Difference	:	All these models are exactly the same in terms of the same printed circuit board, layout and electrical circuits. The differences lie in the model names and the different appearance colors.
Product Description	:	Operation Frequency: 2.4G WiFi(802.11b/g/n/ax): 2412MHz~2472MHz BLE: 2402MHz~2480MHz
Power Rating	:	Battery:1.2V 2500mAh *3pcs
Software Version	:	N/A
Hardware Version	:	NAS-STH01 (02) W17-V4 2025-05.12
Remark: The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.		

Note:

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
/	/	/	/	/
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
/	/	/	/	/



1.5 Description of Operating Mode

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned Below was evaluated respectively.

Pretest Mode	Description
Mode 1	Working Mode
Mode 2	BLE Link Mode
Mode 3	2.4GHz WiFi Link Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Radiated Test(Below 1GHz)	
Mode 1	Working Mode
For Radiated Test(Above 1GHz)	
Mode 1	Working Mode
For EMS Test	
Final Test Mode	Description
Mode 1	Working Mode
Mode 2	BLE Link Mode
Mode 3	2.4GHz WiFi Link Mode



1.6 Performance Criteria

ETSI EN 301 489-1

(1) Introduction

The performance criteria are used to take a decision on whether a radio equipment passes or fails immunity tests. For the purpose of the present document two categories of performance criteria apply:

- Performance criteria for continuous phenomena.
- Performance criteria for transient phenomena.

NOTE: Normally, the performance criteria depends upon the type of radio equipment and/or its intended application. Thus, the present document only contains general performance criteria commonly used for the assessment of radio equipment.

(2) Performance criteria for continuous phenomena

During the test, the equipment shall:

- continue to operate as intended;
- not unintentionally transmit;
- not unintentionally change its operating state;
- not unintentionally change critical stored data.

(3) Performance criteria for transient phenomena

For all ports and transient phenomena with the exception described below, the following applies:

- The application of the transient phenomena shall not result in a change of the mode of operation (e.g. unintended transmission) or the loss of critical stored data.
- After application of the transient phenomena, the equipment shall operate as intended.

For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:

- For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
- For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



ETSI EN 301 489-17

(1) General performance criteria

The performance criteria are:

- performance criteria A for immunity tests with phenomena of a continuous nature;
- performance criteria B for immunity tests with phenomena of a transient nature;
- performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following clauses.

(2) Performance table

A, Performance criteria overview

Table 1: Performance criteria		
Criterion	During Test	After test (i.e. as a result of the application of the test)
A	Shall operate as intended. (see note). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance. Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
C	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data.
NOTE: Operate as intended during the test allows a level of degradation in accordance with clause 6.2.2.		

B, Performance criteria overview

For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER, the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment.

(3) Performance criteria for Continuous phenomena applied to Transmitters (CT)

The performance criteria A shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or Not ACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.



(4) Performance criteria for Transient phenomena applied to Transmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

(5) Performance criteria for Continuous phenomena applied to Receivers (CR)

The performance criteria A shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

(6) Performance criteria for Transient phenomena applied to Receivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.



1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Expanded Uncertainty (U_{Lab})
Conducted Emission	± 3.50 dB
Radiated Emission (9kHz to 30 MHz)	± 4.60 dB
Radiated Emission (30MHz to 1000 MHz)	± 4.60 dB
Radiated Emission (Above 1000MHz)	± 4.50 dB
Temperature	$\pm 0.6^{\circ}\text{C}$
Humidity	$\pm 4\%$

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.



2 Test Results Summary

Test procedures according to the technical standards:

Requirement Standard:		ETSI EN 301 489-1 V2.2.3: 2019 ETSI EN 301 489-17 V3.3.1: 2024		
EMC Emission				
Test Standard	Test Item	Limit	Result	Remark
EN 55032:2015+A1:2020	Conducted Emission	Class B	N/A	
	Radiated Emission	Class B	PASS	
EN IEC 61000-3-2:2019+A1:2021	Harmonic Current Emission	Class A	N/A	Note(2)
EN 61000-3-3:2013+A2:2021	Voltage Fluctuations& Flicker		N/A	
EMC Immunity				
Test Standard	Test Item	Performance Criteria	Result	Remark
EN 61000-4-2: 2009	Electrostatic Discharge	B (TT,TR)	PASS	
EN IEC 61000-4-3:2020	RF electromagnetic field	A (CT,CR)	PASS	
EN 61000-4-4: 2012	Fast transients	B (TT,TR)	N/A	
EN 61000-4-5:2014+A1:2017	Surges	B (TT,TR)	N/A	
EN 61000-4-6: 2014	Injected Current	A (CT,CR)	N/A	
EN IEC 61000-4-11:2020	Volt. Interruptions Volt. Dips	B /B/ C / C NOTE (3)	N/A	
NOTE:				
	(1) " N/A" denotes test is not applicable in this Test Report			
	(2) The power consumption of EUT is less than 75W and no Limits apply.			
	(2) Voltage dip: 0% residual 0.5 cycle– Performance Criteria B (TT,TR)			
	Voltage dip: 0% residual 1 cycle– Performance Criteria B (TT,TR)			
	Voltage dip: 70% residual 25 cycles – Performance Criteria C			
	Voltage Interruption: 0% residual votage 250 cycles – Performance Criteria C			
	●in the case where the equipment is fitted with or connected to a battery back-up, the performance criteria for transient phenomena shall apply ; ●in the case where the equipment is powered solely from the AC mains supply (without the use of a parallel battery back-up) volatile user data may have been lost and if applicable the communication link need not to be maintained and lost functions should be recoverable by user or operator			
	(3) The performance criteria for continuous phenomena shall apply(CT,CR). The performance criteria for transient phenomena shall apply (TT,TR).			
	(4) Monitoring of EUT for all immunity test: Audio: The measure acoustic interference ratio and/or the measured electrical interference ratio during the test shall be -20dB or better. Visual: Monitor the operating status via watching the monitor. Radio: The measure PER during the test shall be less than 10%.			



3 Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Magnetic Emission	EZ-EMC	EZ	CDI-03A2
Disturbance Power	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
Radiation Emission	TS+(J32-RE)	Tonsced	3.0.0.4
Radiation Immunity	TS+(J32-RS)	Tonsced	3.0.0.5
Harmonic Current	CTS4	CI	4.24.0
Voltage Fluctuation and Flicker	CTS4	CI	4.24.0
Conducted Immunity	IEC/EN 61000-6-4 Application	FRANKONIA	1.1.1
Electrical Fast Transient	lec.control	Nemtest	5.1.1.0
Surge	lec.control	Nemtest	5.1.1.0
Voltage Dip and Interruption	lec.control	Nemtest	5.1.1.0



4 Test Equipment and Test Site

Test Site				
No.	Test Site	Manufacturer	Specification	Used
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 (m)	X
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 (m)	X
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 (m)	X
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 (m)	√

Radiation Emission Test (A Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jun. 16, 2025	Jun. 15, 2026
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2024	Feb. 26, 2026
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 27, 2024	Feb. 26, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb. 26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
Pre-amplifier	SONOMA	310N	185903	Feb. 20, 2025	Feb. 19, 2026
Pre-amplifier	HP	8449B	3008A00849	Feb. 20, 2025	Feb. 19, 2026
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 27, 2025	Aug. 26, 2026

Radiation Emission Test (B Site)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 27, 2025	Aug. 26, 2026
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 16, 2025	Jun. 15, 2026
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 20, 2025	Feb. 19, 2026
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Oct. 18, 2025	Oct. 17, 2027
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb. 26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 27, 2025	Aug. 26, 2026
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 27, 2025	Aug. 26, 2026
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 27, 2025	Aug. 26, 2026

Discharge Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
ESD Tester	TESEQ	NSG437	304	Jun. 18, 2025	Jun. 17, 2026



Radiated Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Gestockte Log.-Per.- Breitband-antenna Stacked Log.-Per.- Broadband	SCHWARZBECK	STLP 9129	162	N/A	N/A
Electric field probe	Narda	EP 601	811ZX01000	Feb. 27, 2024	Feb. 26, 2026
Signal Generator	Agilent	N5181A	MY50141953	Aug. 27, 2025	Aug. 26, 2026
EPM Series Power Meter	KEYSIGHT	N1914A	MY61180020	Jun. 16, 2025	Jun. 15, 2026
Power Sensor	KEYSIGHT	E9301A	MY61130007	Jun. 18, 2025	Jun. 17, 2026
Power Sensor	KEYSIGHT	E9301A	MY61130011	Jun. 18, 2025	Jun. 17, 2026
Radio Frequency Switch	Tonscend	JS0806s	21E8060428	N/A	N/A
Microwave Power amplifier	Micotop	MPA-80-1000- 250	MPA2105144	Jun. 16, 2025	Jun. 15, 2026
Microwave Power amplifier	Micotop	MPA-1000- 6000-100	MPA2105150	Jun. 16, 2025	Jun. 15, 2026



5 Conducted Disturbance Test(AC Port)

5.1 Test Standard and Limit

5.1.1 Test Standard

ETSI EN 301 489-1 Clause 8.4

ETSI EN 301 489-17

EN 55032:2015+A1:2020

5.1.2 Test Limit

Table A.9 – Requirements for conducted emissions from the AC mains power ports of Class A equipment

Applicable to				
1. AC mains power ports (3.1.1)				
Table clause	Frequency range MHz	Coupling device (see Table A.8)	Detector type / bandwidth	Class A limits dB(μV)
A9.1	0,15 to 0,5	AMN	Quasi Peak / 9 kHz	79
	0,5 to 30			73
A9.2	0,15 to 0,5	AMN	Average / 9 kHz	66
	0,5 to 30			60

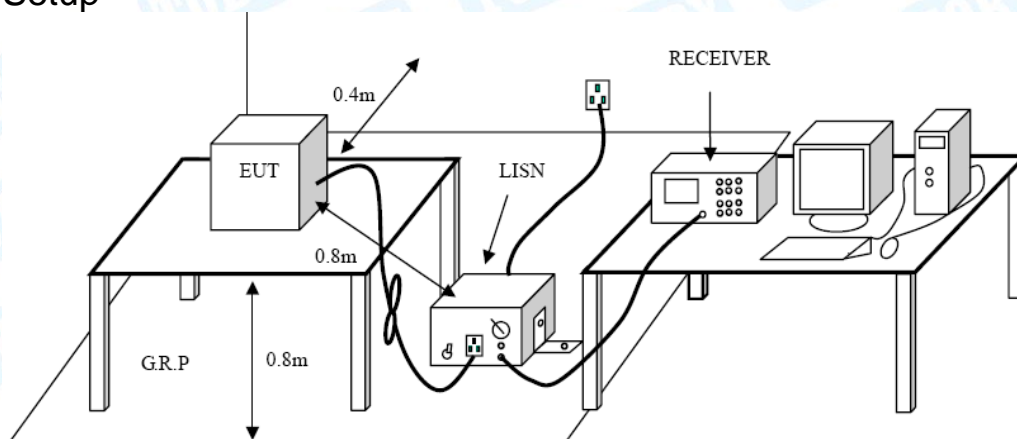
Apply A9.1 and A9.2 across the entire frequency range.

Table A.10 – Requirements for conducted emissions from the AC mains power ports of Class B equipment

Applicable to				
1. AC mains power ports (3.1.1)				
Table clause	Frequency range MHz	Coupling device (see Table A.8)	Detector type / bandwidth	Class B limits dB(μV)
A10.1	0,15 to 0,5	AMN	Quasi Peak / 9 kHz	66 to 56
	0,5 to 5			56
	5 to 30			60
A10.2	0,15 to 0,5	AMN	Average / 9 kHz	56 to 46
	0,5 to 5			46
	5 to 30			50

Apply A10.1 and A10.2 across the entire frequency range.

5.2 Test Setup



5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from the nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 Test Data

N/A.



6 Conducted Emissions(Wired Network Port)

6.1 Test Standard and Limit

6.1.1 Test Standard

ETSI EN 301 489-1 Clause 8.7

ETSI EN 301 489-17

EN 55032:2015+A1:2020

6.1.2 Test Limit

Table A.11 – Requirements for asymmetric mode conducted emissions from Class A equipment

Applicable to					
1. wired network ports (3.1.32) 2. optical fibre ports (3.1.25) with metallic shield or tension members 3. antenna ports (3.1.3)					
Table clause	Frequency range MHz	Coupling device (see Table A.8)	Detector type / bandwidth	Class A voltage limits dB(μV)	Class A current limits dB(μA)
A11.1	0,15 to 0,5	AAN	Quasi Peak / 9 kHz	97 to 87	n/a
	0,5 to 30			87	
	0,15 to 0,5	AAN	Average / 9 kHz	84 to 74	
	0,5 to 30			74	
A11.2	0,15 to 0,5	CVP and current probe	Quasi Peak / 9 kHz	97 to 87	53 to 43
	0,5 to 30			87	43
	0,15 to 0,5	CVP and current probe	Average / 9 kHz	84 to 74	40 to 30
	0,5 to 30			74	30
A11.3	0,15 to 0,5	Current Probe	Quasi Peak / 9 kHz	n/a	53 to 43
	0,5 to 30				43
	0,15 to 0,5	Current Probe	Average / 9 kHz		40 to 30
	0,5 to 30				30
The choice of coupling device and measurement procedure is defined in Annex C.					
AC mains ports that also have the function of a wired network port shall meet the limits given in Table A.9.					
The measurement shall cover the entire frequency range.					
The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.					
Testing is required at only one EUT supply voltage and frequency.					
Applicable to ports listed above and intended to connect to cables longer than 3 m.					



Table A.12 – Requirements for asymmetric mode conducted emissions from Class B equipment

Applicable to					
1. wired network ports (3.1.32) 2. optical fibre ports (3.1.25) with metallic shield or tension members 3. broadcast receiver tuner ports (3.1.8) 4. antenna ports (3.1.3)					
Table clause	Frequency range MHz	Coupling device (see Table A.8)	Detector type / bandwidth	Class B voltage limits dB(μV)	Class B current limits dB(μA)
A12.1	0,15 to 0,5	AAN	Quasi Peak / 9 kHz	84 to 74	n/a
	0,5 to 30			74	
	0,15 to 0,5	AAN	Average / 9 kHz	74 to 64	
	0,5 to 30			64	
A12.2	0,15 to 0,5	CVP and current probe	Quasi Peak / 9 kHz	84 to 74	40 to 30
	0,5 to 30			74	30
	0,15 to 0,5	CVP and current probe	Average / 9 kHz	74 to 64	30 to 20
	0,5 to 30			64	20
A12.3	0,15 to 0,5	Current Probe	Quasi Peak / 9 kHz	n/a	40 to 30
	0,5 to 30				30
	0,15 to 0,5	Current Probe	Average / 9 kHz		30 to 20
	0,5 to 30				20

The choice of coupling device and measurement procedure is defined in Annex C.

Screened ports including TV broadcast receiver tuner ports are measured with a common-mode impedance of 150 Ω. This is typically accomplished with the screen terminated by 150 Ω to earth.

AC mains ports that also have the function of a wired network port shall meet the limits given in Table A.10.

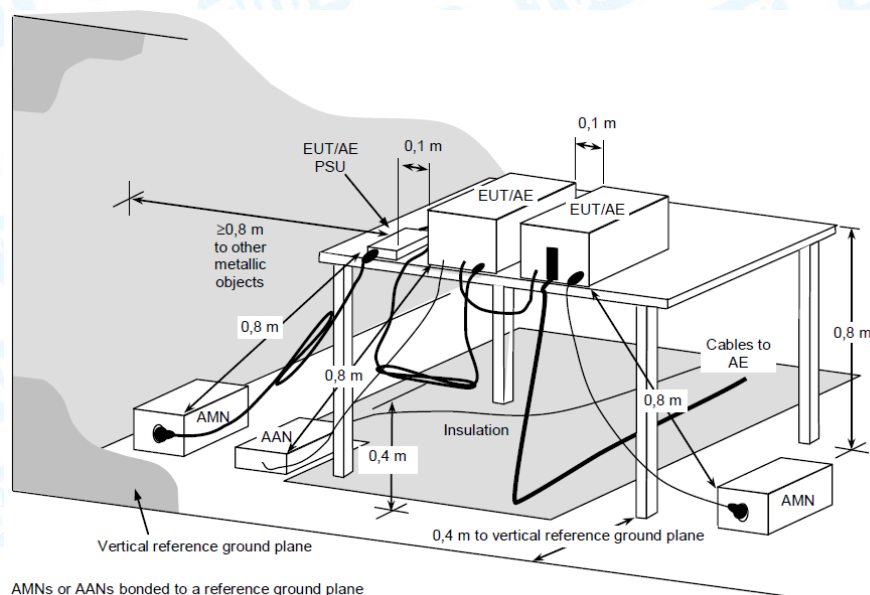
The measurement shall cover the entire frequency range.

The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.

Measurement is required at only one EUT supply voltage and frequency.

Applicable to ports listed above and intended to connect to cables longer than 3 m.

6.2 Test Setup



6.3 Test Procedure

Detailed test procedure was following clause C.4.1 of EN 55032.

Frequency range 150kHz–30MHz was checked and EMI receiver measurement bandwidth was set to 9 kHz.

Data Port	Measurement type	Coupling device	No. of Pairs
Balanced Unscreened	Voltage	AAN	≤ 4
Balanced Unscreened	Voltage and Current	CVP & Current probe	>4 or unable to AAN
Screened or Coaxial	Voltage	AAN	N/A
Screened or Coaxial	Voltage or Current	Current probe / “150Ω to 50Ω adaptor” / high impedance probe	N/A
Unbalanced cables	Voltage and Current	CVP & Current probe	N/A

6.4 Deviation From Test Standard

No deviation

6.5 Test Data

N/A



7 Radiated Emission Test

7.1 Test Standard and Limit

7.1.1 Test Standard

ETSI EN 301 489-1 Clause 8.2

ETSI EN 301 489-17

EN 55032:2015+A1:2020

7.1.2 Test Limit

Radiated Disturbance Test Limit

FREQUENCY (MHz)	Class A (at 3m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 – 230	50	40
230 – 1000	57	47

Notes:

- (1) The limit for radiated test was performed according to as following: EN 55032
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Limits of Radiated Emission Measurement (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
1000-6000	80	60	74	54

Notes:

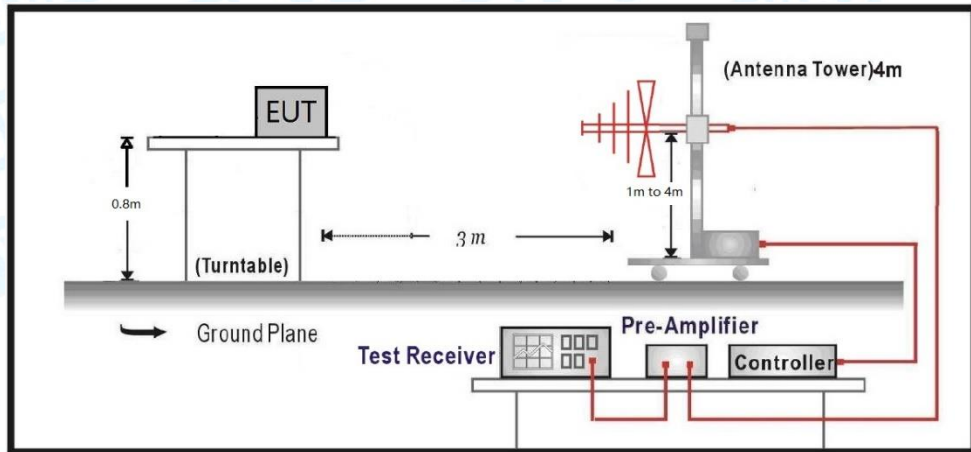
- (1) The lower limit applies at the transition frequency.

Frequency Range of Radiated Measurement

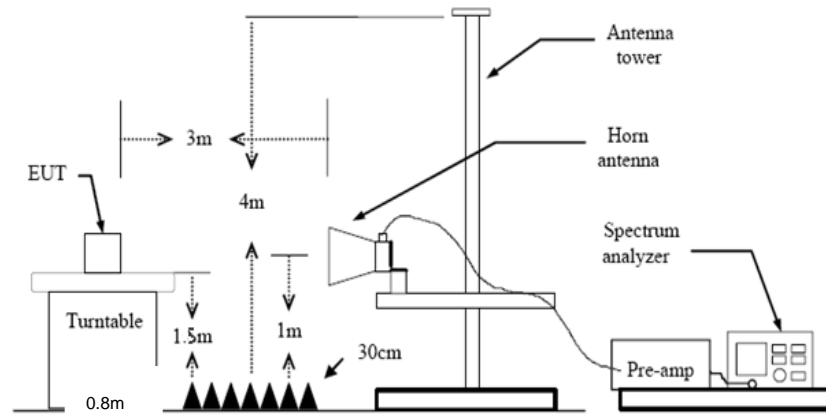
Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 6 GHz, whichever is lower



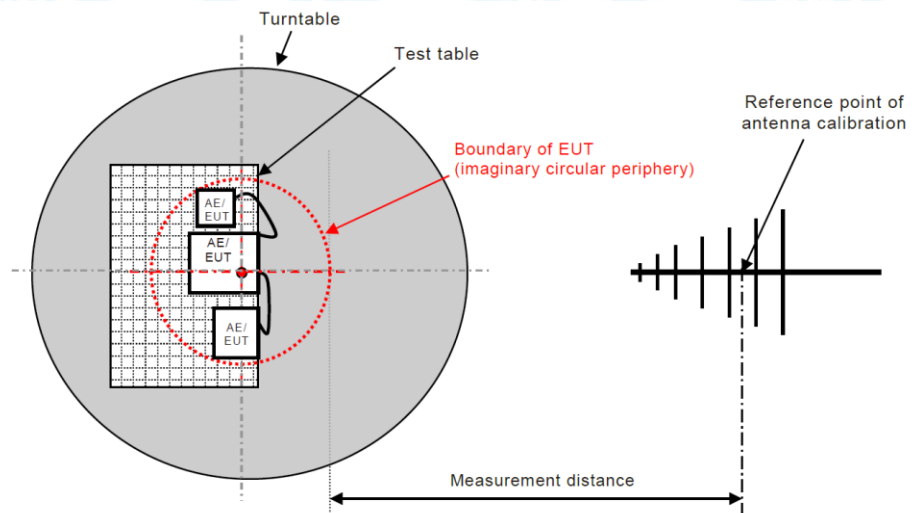
7.2 Test Setup



Below-1G



Above 1G



IEC

Figure C.1 – Measurement distance



7.3 Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT and local AE shall be arranged in the most compact practical arrangement within the test volume, while respecting typical spacing and the requirements defined in Annex D. The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See Figure C.1 and Figure C.2.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum Quasi Peak detector mode scanning the measurement frequency range.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

7.4 Deviation From Test Standard

No deviation

7.5 Test Data

Please refer to the Attachment A.



8 Harmonic Current Emission Test

8.1 Test Standard and Limit

8.1.1 Test Standard

ETSI EN 301 489-1 Clause 8.5

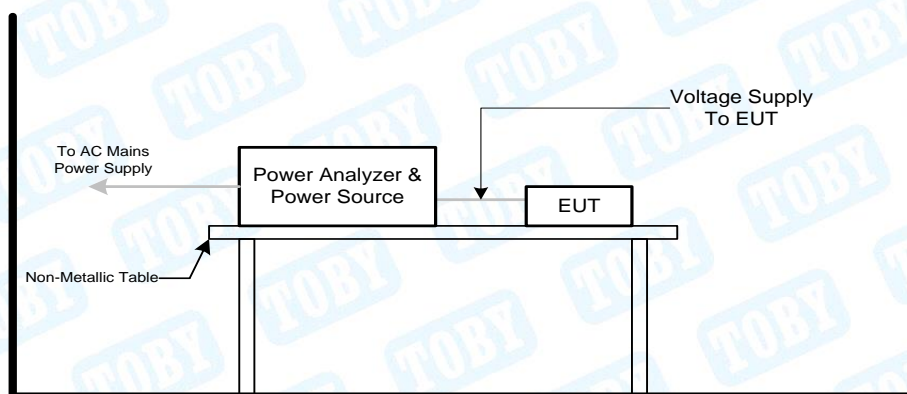
ETSI EN 301 489-17

EN IEC 61000-3-2: 2019+A1: 2021

8.1.2 Test Limit

Limits for Class A equipment				Limits for Class D equipment		
Odd Harmonics		Even Harmonics		Harmonic Order (n)	Maximum Permissible Harmonic Current per watt (mA/W)	Maximum Permissible Harmonic Current (A)
Harmonic Order (n)	Maximum permissible harmonic Current (A)	Harmonic Order (n)	Maximum permissible harmonic Current (A)			
3	2.30	2	1.08	3	3.4	2.30
5	1.14	4	0.43	5	1.9	1.14
7	0.77	6	0.30	7	1.0	0.77
9	0.40	$8 \leq n \leq 40$	$0.23 \times 8/n$	9	0.5	0.40
11	0.33			11	0.35	0.33
13	0.21			$15 \leq n \leq 39$ (odd harmonics only)	3.85/n	$0.15 \times 15/n$
$15 \leq n \leq 39$	$0.15 \times 15/n$					

8.2 Test Setup



8.3 Test Procedure

The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

8.4 Deviation From Test Standard

No deviation

8.5 Test Data

N/A



9 Voltage Fluctuation and Flicker Test

9.1 Test Standard and Limit

9.1.1 Test Standard

ETSI EN 301 489-1 Clause 8.6

ETSI EN 301 489-17

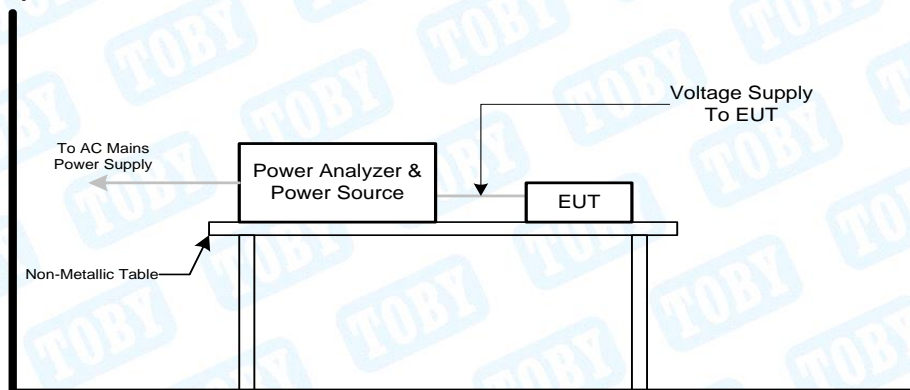
EN 61000-3-3: 2013+A2: 2021

9.1.2 Test Limit

Flicker Test Limit

Test Items	Limits
Pst	1.0
dc	3.3%
dmax	4.0%
dt	Not exceed 3.3% for 500ms

9.2 Test Setup



9.3 Test Procedure

Fluctuation and Flickers Test:

Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

For the actual test configuration, please refer to the related Item–Block Diagram of system tested.

9.4 Deviation From Test Standard

No deviation

9.5 Test Data

N/A..



10 Electrostatic Discharge Immunity Test

10.1 Test Standard and Limit

10.1.1 Test Standard

ETSI EN 301 489-1 Clause 9.3

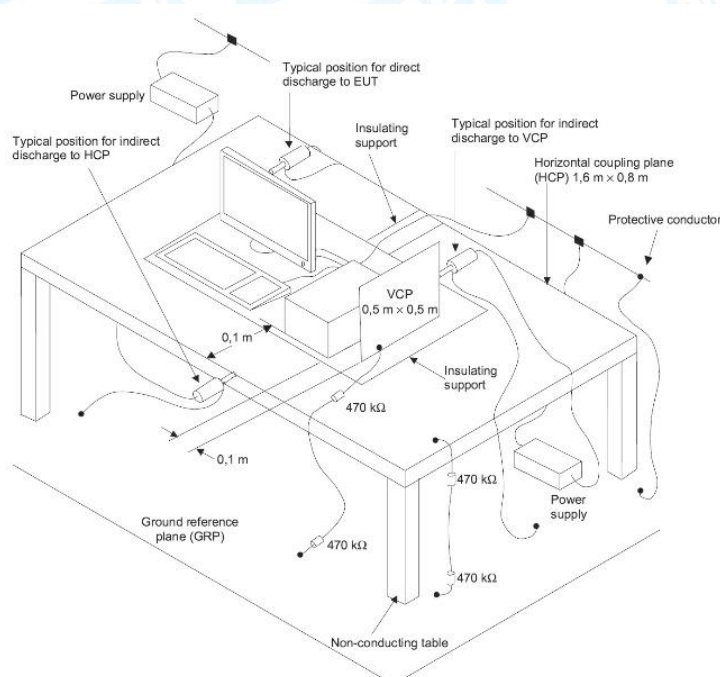
ETSI EN 301 489-17

EN 61000-4-2: 2009

10.1.2 Test Level

Discharge Impedance:	330 ohm/ 150pF
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV(Direct) Contact Discharge: 2kV/4kV (Direct /Indirect)
Polarity:	Positive& Negative
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

10.2 Test Setup



10.2 Test Procedure

The test method shall be in accordance with CENELEC EN 61000-4-2 [2], clauses 6, 7 and 8.

For radio equipment and ancillary equipment the following requirements and evaluation of test results shall apply.

The test severity level for contact discharge shall be ± 4 kV and for air discharge ± 8 kV. All other details, including intermediate test levels, are contained within CENELEC EN 61000-4-2 [2], clause 5.

Electrostatic discharges shall be applied to all exposed surfaces of the EUT except where the user documentation specifically indicates a requirement for appropriate protective measures (as specified in CENELEC EN 61000-4-2 [2], clauses 8.3.2 and 8.3.3).

10.3 Deviation From Test Standard

No deviation

10.4 Test Data

Please refer to the Attachment B.



11.3 Test Procedure

The test method shall be in accordance with CENELEC EN 61000-4-3 [3], clauses 6, 7 and 8.

The following requirements and evaluation of test results shall apply:

- the test level shall be 3 V/m (measured unmodulated). The test signal shall be amplitude modulated to a depth of 80 % by a sinusoidal audio signal of 1 000 Hz.

If the wanted signal is modulated at 1 000 Hz, then an audio signal of 400 Hz shall be used;

- the test shall be performed over the frequency range 80 MHz to 6 000 MHz with the exception of the exclusion band for transmitters, receivers and duplex transceivers (see clause 4.3), as appropriate;
- for receivers and transmitters the stepped frequency increments shall be 1 % frequency increment of the momentary used frequency;
- the dwell time of the test phenomena at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond;

NOTE: Dwell time is product dependent.

- the frequencies selected and used during the test shall be recorded.

All the scanning conditions are as following:

Condition of Test	Remark
Fielded Strength	3V/m
Radiated Signal	80%AM,1kHz Since Wave
Scanning Frequency	80-6000MHz
<p>Note:</p> <p>The exclusion band for immunity testing of equipment operating in the 2,4 GHz band shall be:</p> <ul style="list-style-type: none"> • lower limit of exclusion band = lowest allocated band edge frequency -120 MHz, i.e. 2 280 MHz; • upper limit of exclusion band = highest allocated band edge frequency +120 MHz, i.e. 2 603,5MHz. <p>The exclusion band for immunity testing of equipment operating in the 5 GHz Wi-Fi band shall be:</p> <ul style="list-style-type: none"> • lower limit of exclusion band = lowest allocated band edge frequency -270 MHz, i.e. 4 880 MHz; • upper limit of exclusion band = highest allocated band edge frequency +270 MHz, i.e. 5 995 MHz. 	

11.4 Deviation From Test Standard

No deviation

11.5 Test Data

Please refer to the Attachment C.



12 Electrical Fast Transient/Burst Test

12.1 Test Standard and Limit

12.1.1 Test Standard

ETSI EN 301 489-1 Clause 9.4

ETSI EN 301 489-17

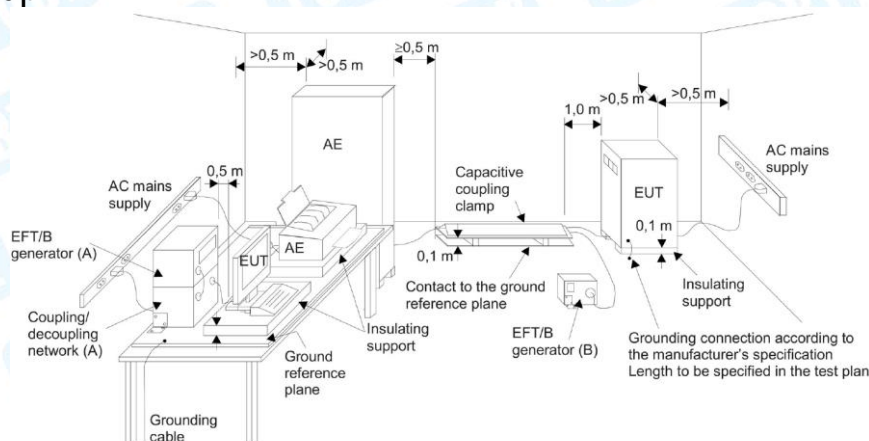
EN 61000-4-4: 2012

12.1.2 Test Level

Test Level for Electrical Fast Transient Test

	On Switching Adapter Lines	On I/O (Input/Output) Signal data and control lines
Test Voltage:	1 kV	0.5 kV
Polarity:	Positive & Negative	
Impulse Wave Shape:	5/50ns	
Burst Duration:	15ms	
Burst Period:	300ms	
Test Duration:	Not less than 1 min	

12.2 Test Setup



12.3 Test Procedure

The test method shall be in accordance with CENELEC EN 61000-4-4 [4], clauses 7 and 8.

The following requirements and evaluation of test results shall apply:

- the test level for signal ports, wired network ports (excluding xDSL), and control ports shall be 0,5 kV open circuit voltage at a repetition rate of 5 kHz as given in CENELEC EN 61000-4-4 [4], clause 5;
- the test level for xDSL wired network ports shall be 0,5 kV open circuit voltage at a repetition rate of 100 kHz as given in CENELEC EN 61000-4-4 [4], clause 5;
- the test level for DC power input ports shall be 0,5 kV open circuit voltage at a repetition rate of 5 kHz as given CENELEC EN 61000-4-4 [4], clause 5;
- the test level for AC mains power input ports shall be 1 kV open circuit voltage at a repetition rate of 5 kHz as given CENELEC EN 61000-4-4 [4], clause 5.

12.4 Deviation From Test Standard

No deviation

12.5 Test Data

N/A.



13 Surge Immunity Test

13.1 Test Standard and Limit

13.1.1 Test Standard

ETSI EN 301 489-1 Clause 9.8

ETSI EN 301 489-17

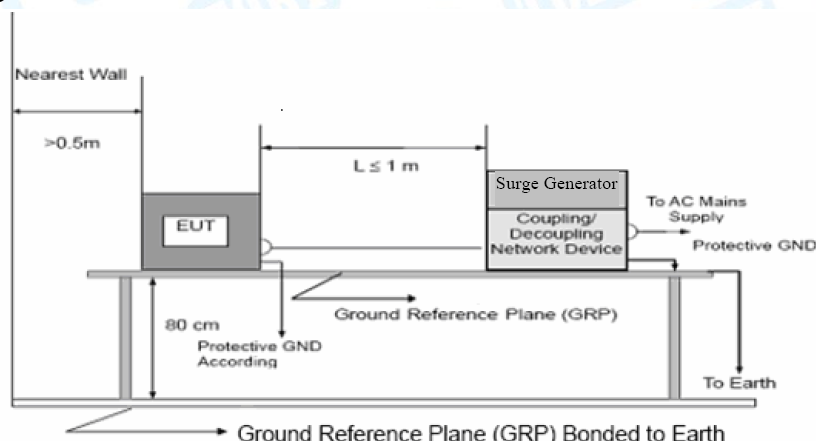
EN 61000-4-5: 2014+A1: 2017

13.1.2 Test Level

Test Level for Surge Immunity Test

Basic Standard:	EN 61000-4-5
Test Requirement:	Analogue/digital data ports: 1KV (see a)
	DC network power ports: 0.5KV
	AC mains power ports: 1KV(Line-Line), 2KV(Line-earth)
T_r/T_h	1.2/50us, 10/700us
Polarity:	Positive/Negative
Phase Angle:	0/90/180/270
Pulse Repetition Rate:	1 time/min.(maximum)
Number of Tests:	5 positive and 5 negative at selected points
a: Port type: coaxial or shielded. Apply: shield to ground.	

13.2 Test Setup



13.3 Test Procedure

1) Set the parameters of the CW generator and interference generator as shown in tables 4.2.9.2-1 and 4.2.9.2-2.

2) Set the power level of the UE according to tables 4.2.9.2-1 and 4.2.9.2-2 with a ± 1 dB tolerance.

3) Measure the BER of DCH received from the UE at the SS.

Details of initial conditions for UEs supporting UTRA FDD can be found in ETSI TS 134 121-1 [1], clause 6.7.

13.4 Deviation From Test Standard

No deviation

13.5 Test Data

N/A.



14 RF Common Mode

14.1 Test Standard and Limit

14.1.1 Test Standard

ETSI EN 301 489-1 Clause 9.5

ETSI EN 301 489-17

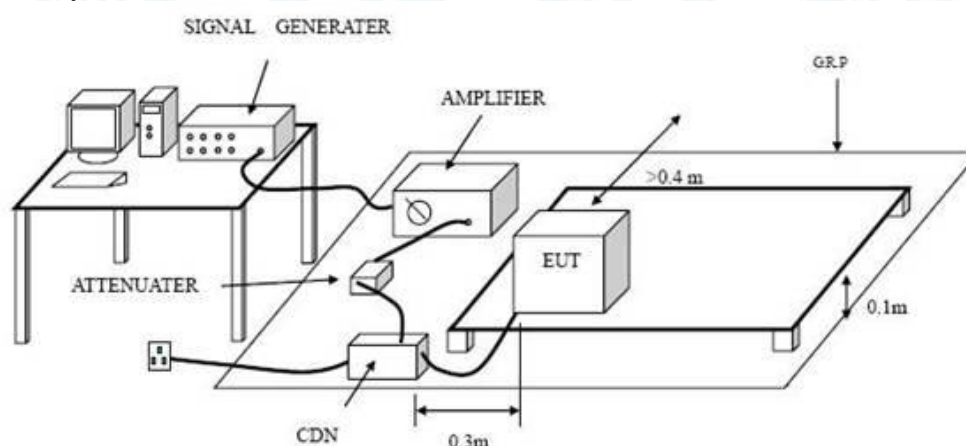
EN 61000-4-6: 2014

14.1.2 Test Level

Test Level for RF Common Mode

Port	Test Specification
Input AC power port	0.15MHz~80MHz 3V(r.m.s.) (unmodulated)

14.2 Test Setup



14.2 Test Procedure

The following requirements and evaluation of test results shall apply:

- the test level shall be severity level 2 as given in CENELEC EN 61000-4-6 [6], clause 5 corresponding to 3 V rms unmodulated. The test signal shall then be amplitude modulated to a depth of 80 % by a sinusoidal audio signal of 1 000 Hz. If the wanted signal is modulated at 1 000 Hz, then the test signal of 400 Hz shall be used;
- the test shall be performed over the frequency range 150 kHz to 80 MHz with the exception of an exclusion band for transmitters, and for receivers and duplex transceivers, (see clause 4.3);
- for receivers and transmitters the stepped frequency increments shall be 1 % frequency increment of the momentary frequency in the frequency range 150 kHz to 80 MHz;
- the injection method to be used shall be selected according to the basic standard CENELEC EN 61000-4-6 [6], clause 7;
- responses on receivers or receiver parts of transceivers occurring at discrete frequencies which are narrow band responses (spurious responses), are disregarded from the test (as specified in clause 4); the dwell time of the test phenomena at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond;
- the frequencies of the immunity test signal selected and used during the test shall be recorded.



14.3 Deviation From Test Standard

No deviation

14.4 Test Data

N/A.



15 Voltage Dips and Interruptions Immunity Test

15.1 Test Standard and Limit

15.1.1 Test Standard

ETSI EN 301 489-1 Clause 9.7

ETSI EN 301 489-17

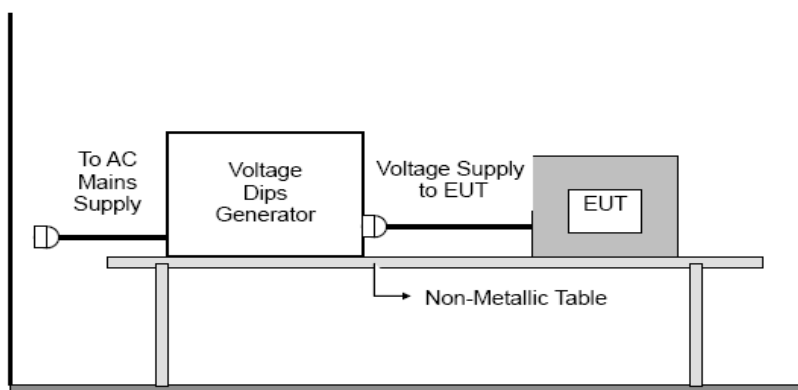
EN IEC 61000-4-11: 2020

15.1.2 Test Level

Test Level for Voltage Dips and Interruptions

Basic Standard:	EN 61000-4-11
Required Performance:	B(For 100% Voltage Dips) B(For 100% Voltage Dips) C(For 30% Voltage Dips) C(For 100% Voltage Interruptions)
Test Duration Time:	Minimum three test events in sequence
Interval Between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

15.2 Test Setup



15.2 Test Procedure

The following requirements and evaluation of test results shall apply.

The test method shall be in accordance with CENELEC EN 61000-4-11

The test levels shall be:

- voltage dip: 0 % residual voltage for 0,5 cycle;
- voltage dip: 0 % residual voltage for 1 cycle;
- voltage dip: 70 % residual voltage for 25 cycles (at 50 Hz);
- voltage interruption: 0 % residual voltage for 250 cycles (at 50 Hz).

15.3 Deviation From Test Standard

No deviation

15.4 Test Data

N/A.



16 Photographs - Constructional Details

Photo 1 Appearance of EUT



Photo 2 Appearance of EUT



Photo 3 Appearance of EUT

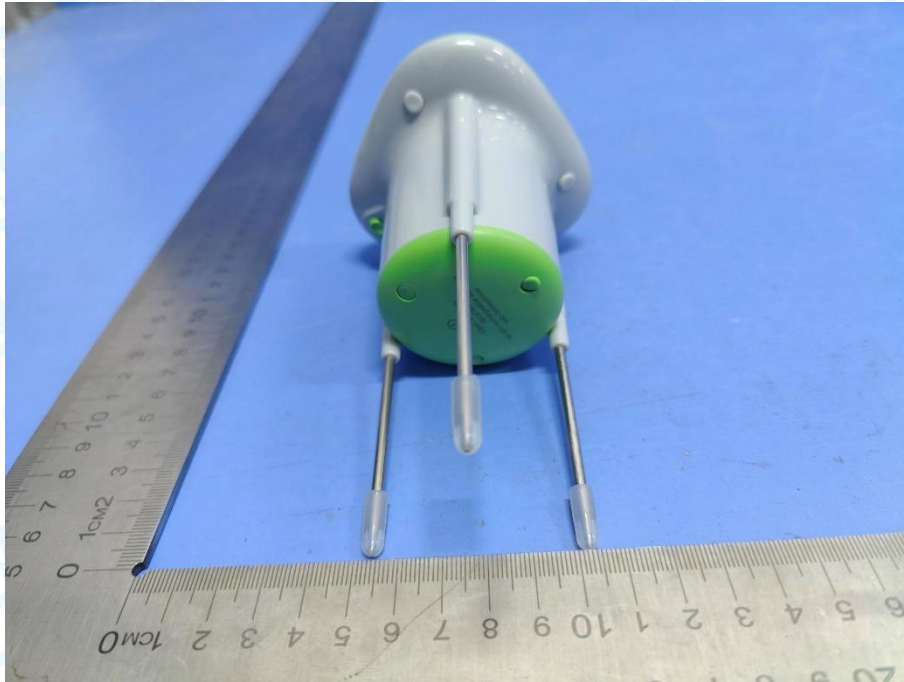


Photo 4 Appearance of EUT

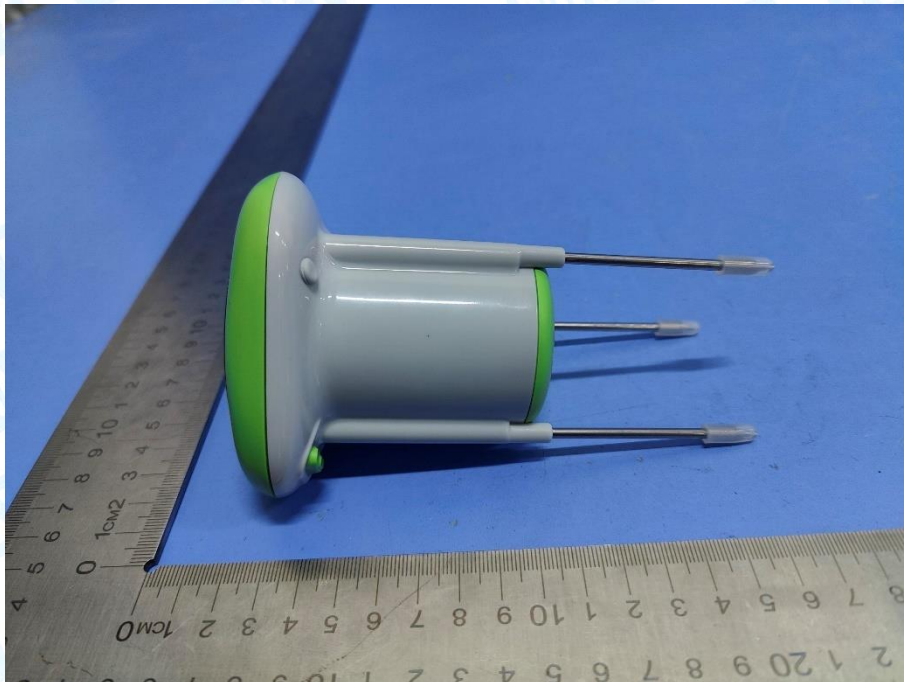


Photo 5 Appearance of EUT

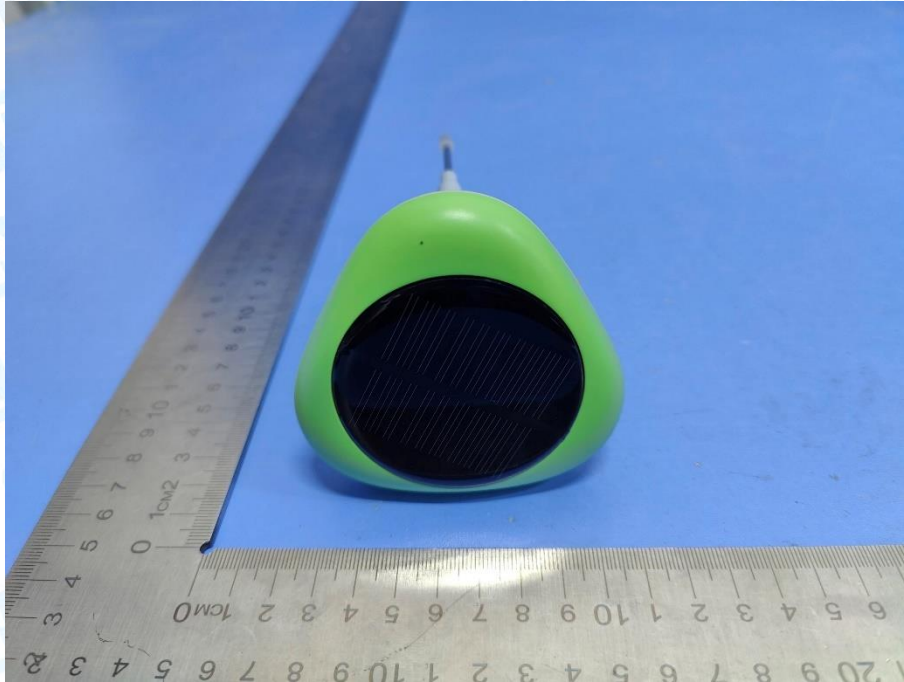


Photo 6 Appearance of EUT

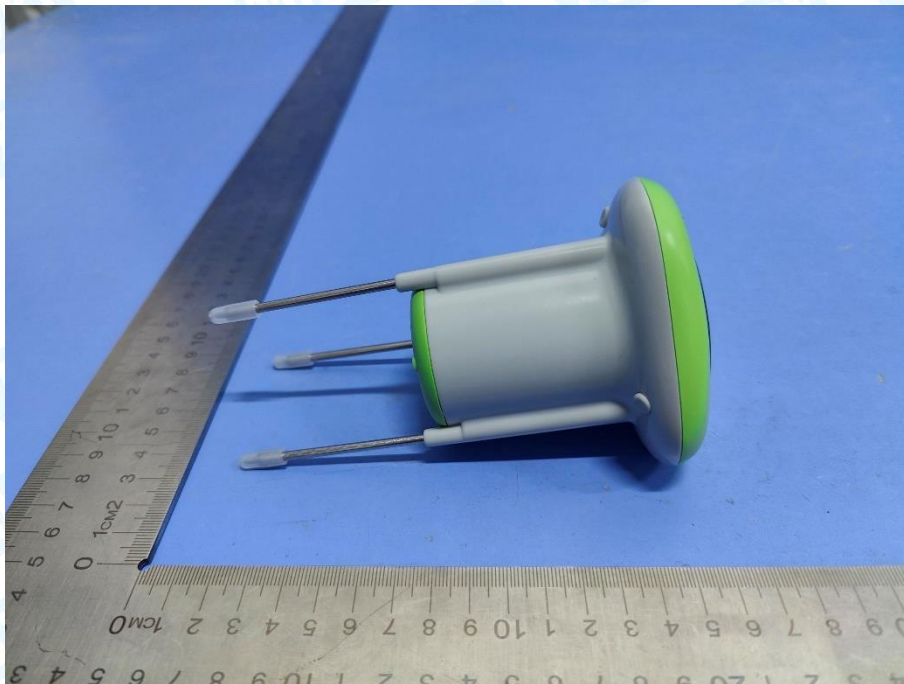


Photo 7 Internal of EUT

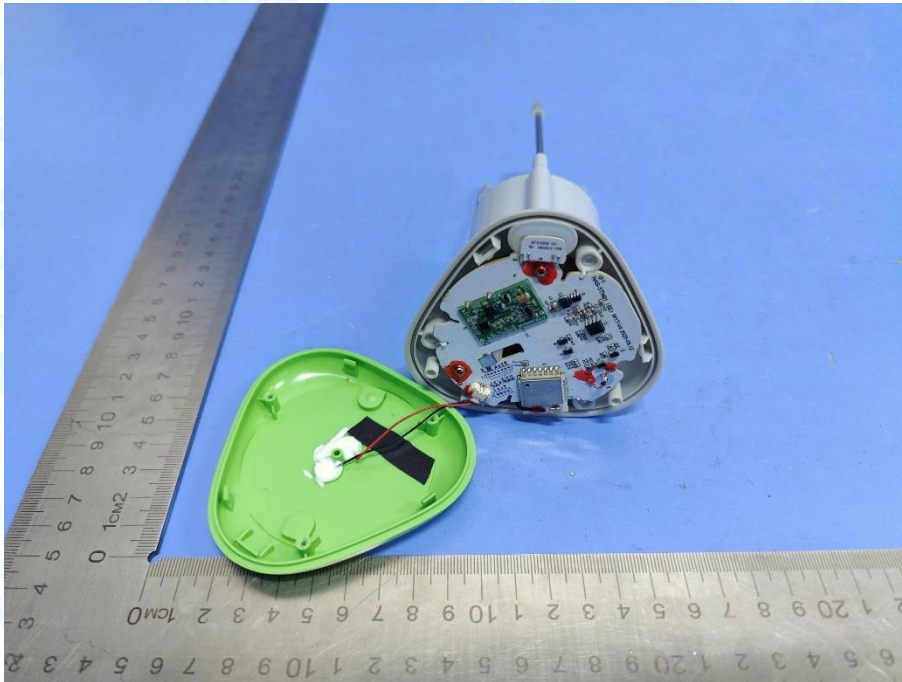


Photo 8 Appearance of PCB

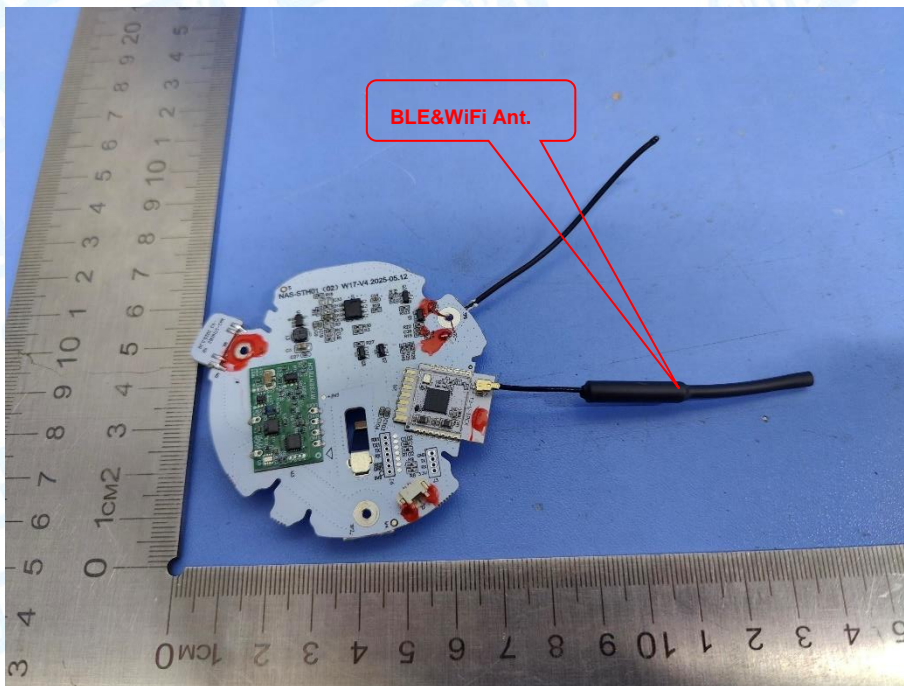


Photo 9 Appearance of PCB

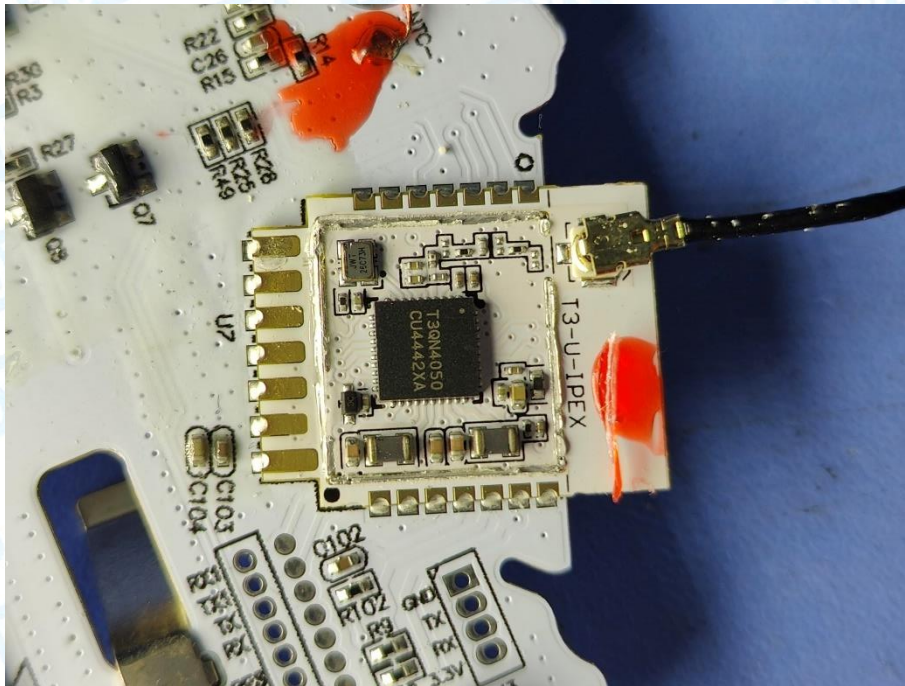
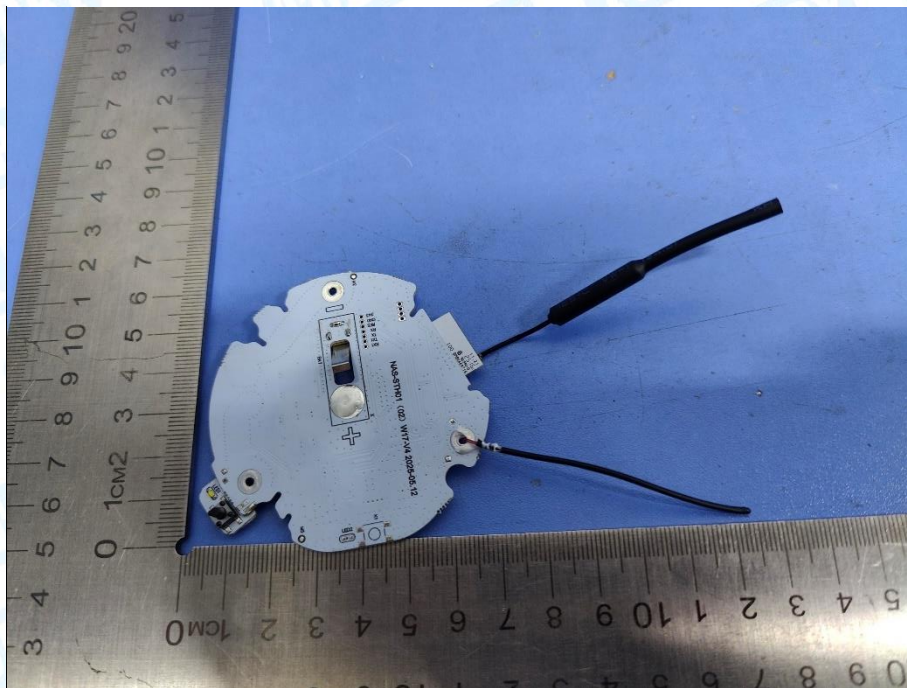


Photo 10 Appearance of PCB

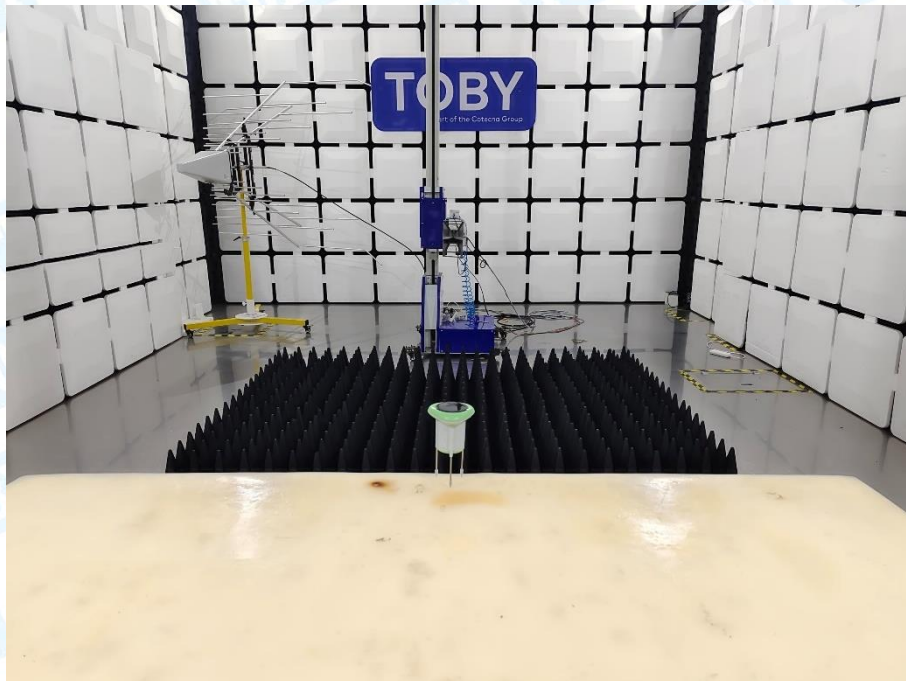


17 Photographs - Test Setup

Radiated Emission Test Setup-Below 1G



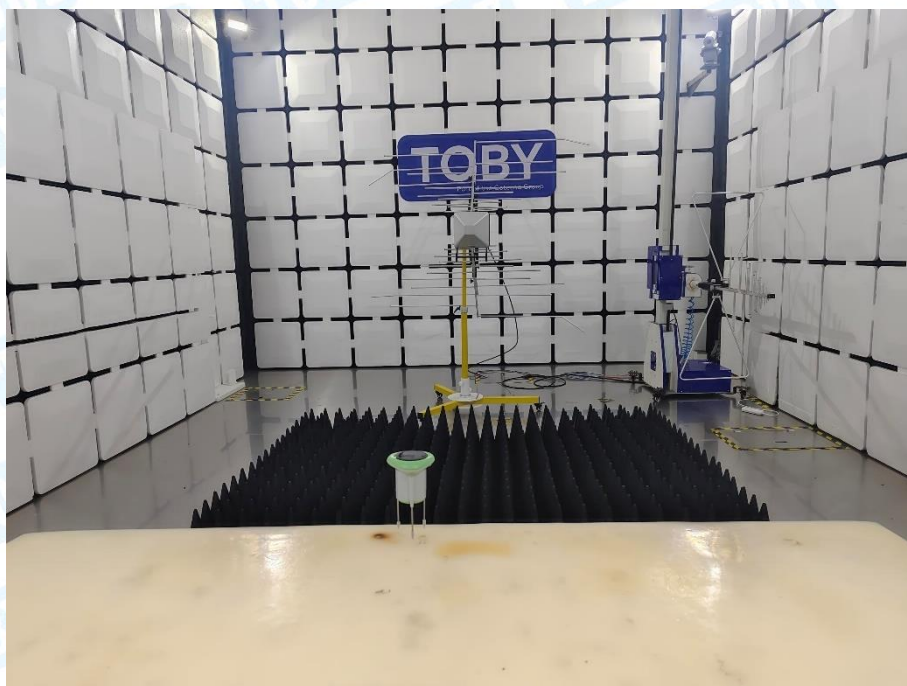
Radiated Emission Test Setup-Above 1G



Electrostatic Discharge Test Setup



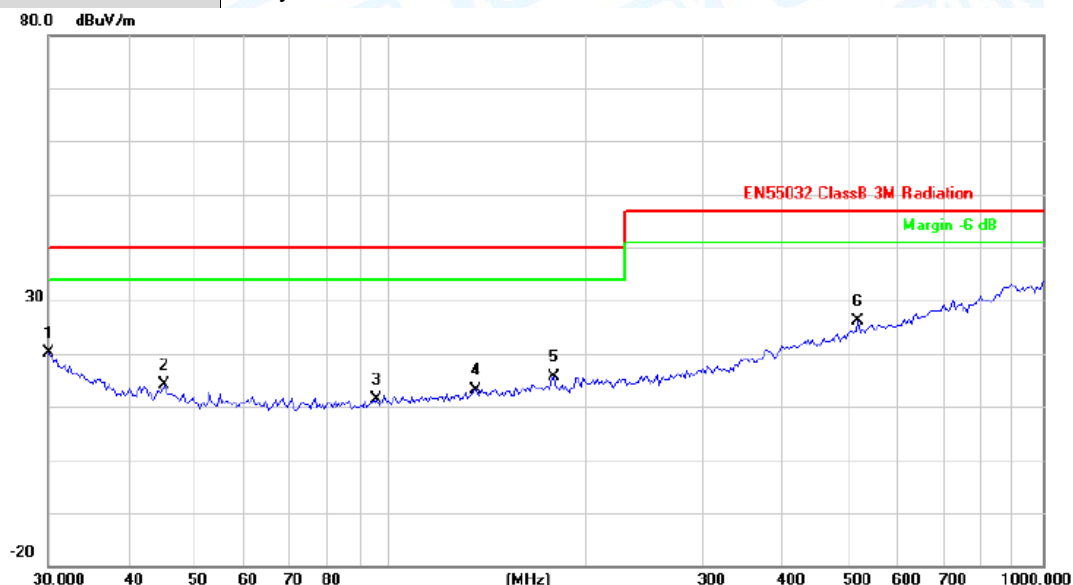
Radiated Immunity Test Setup



Attachment A--Radiated Emission Test Data

----Below 1GHz

Temperature	23.5°C	Humidity	46%
Pressure:	1010 hPa		
Test Voltage:	DC 1.2V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode		



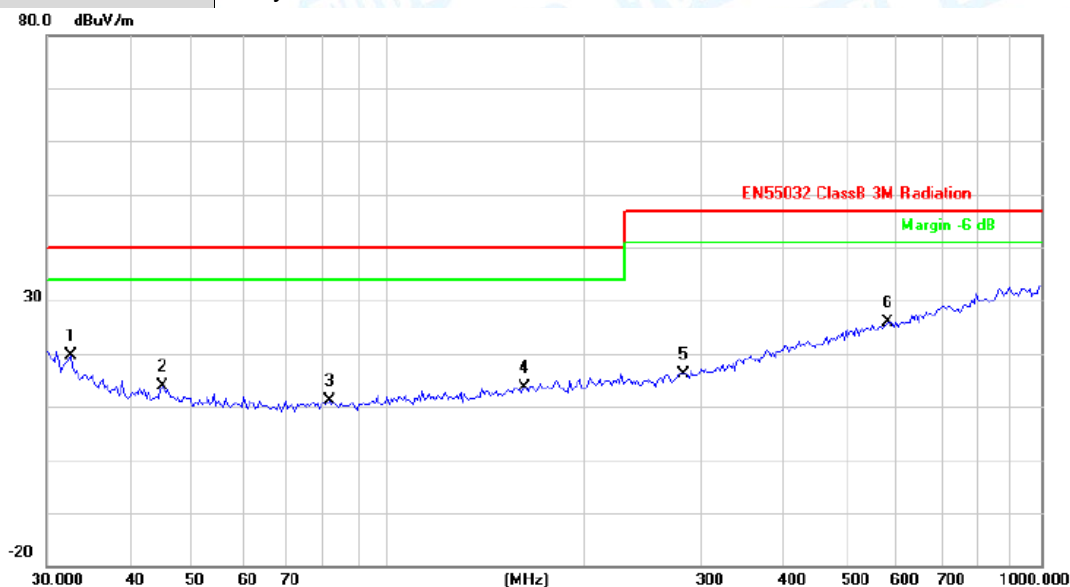
No.	Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB/m	Measure- ment dBμV/m	Limit dBμV/m	Over dB	Detector
1	*	30.0000	26.87	-6.73	20.14	40.00	-19.86	peak
2		45.0583	29.01	-14.87	14.14	40.00	-25.86	peak
3		95.4270	27.89	-16.48	11.41	40.00	-28.59	peak
4		135.5062	28.15	-14.93	13.22	40.00	-26.78	peak
5		178.1327	29.17	-13.65	15.52	40.00	-24.48	peak
6		520.8882	29.98	-3.80	26.18	47.00	-20.82	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)



Temperature	23.5°C	Humidity	46%
Pressure:	1010 hPa		
Test Voltage:	DC 1.2V		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:	Only showed test data of the worst mode		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	32.6340	29.79	-10.16	19.63	40.00	-20.37	peak
2		45.0583	28.64	-14.87	13.77	40.00	-26.23	peak
3		81.2117	27.72	-16.68	11.04	40.00	-28.96	peak
4		161.4742	27.80	-14.20	13.60	40.00	-26.40	peak
5		282.9852	27.68	-11.45	16.23	47.00	-30.77	peak
6		582.7425	28.70	-2.74	25.96	47.00	-21.04	peak

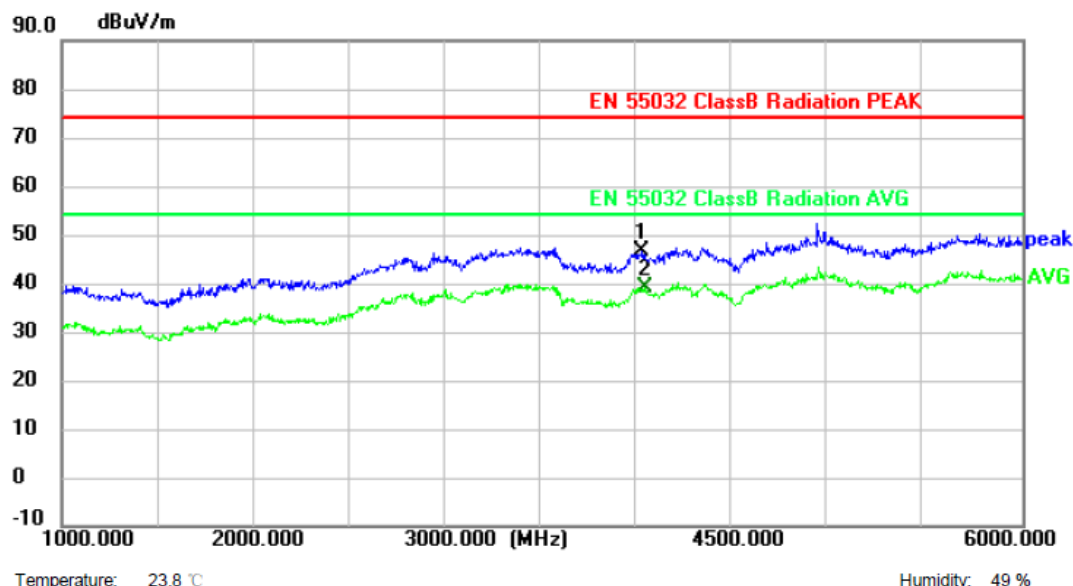
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)



-----Above 1G

Pressure:	1010 hPa
Test Voltage:	DC 1.2V
Ant. Pol.	Horizontal
Test Mode:	Mode 1
Remark:	Only show the worst case.



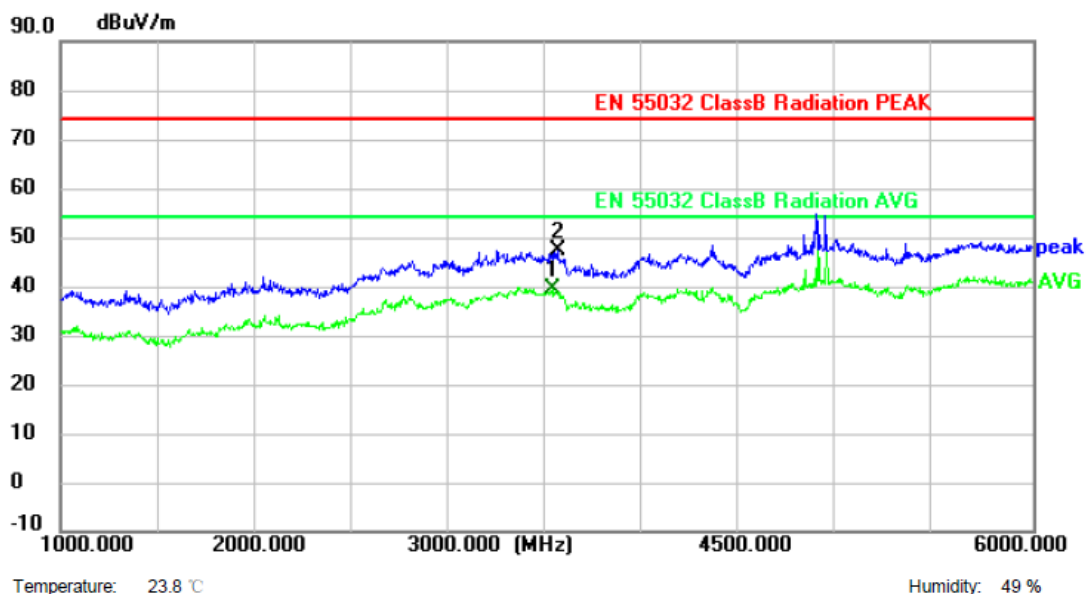
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4020.0000	51.69	-5.03	46.66	74.00	-27.34	peak	P
2 *	4035.0000	44.16	-5.15	39.01	54.00	-14.99	AVG	P

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m)-Limit PK/AVG(dBuV/m)
3. Test with filter, the Fundamental frequency is not displayed.



Pressure:	1010 hPa
Test Voltage:	DC 1.2V
Ant. Pol.	Vertical
Test Mode:	Mode 1
Remark:	Only show the worst case.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	3530.0000	46.30	-6.73	39.57	54.00	-14.43	AVG	P
2	3555.0000	53.92	-6.58	47.34	74.00	-26.66	peak	P

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m)= Corr. (dB/m)+ Read Level (dBuV)
3. Test with filter, the Fundamental frequency is not displayed.



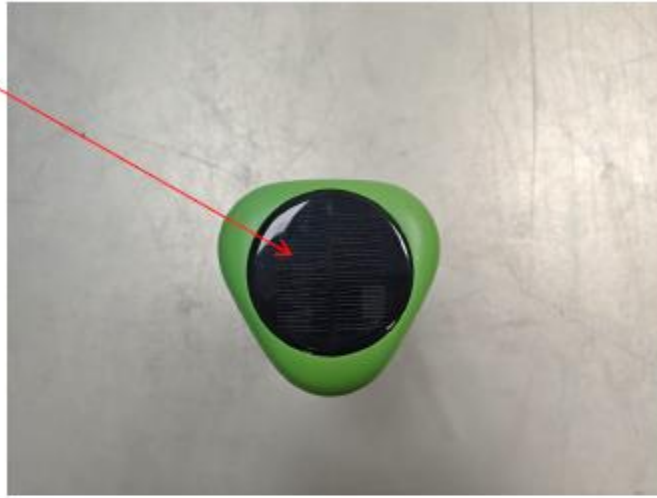
Attachment B--Electrostatic Discharge Test Data

Temperature		:		24.5℃		Humidity		:		51%								
Pressure(hpa)		:		1020														
Power supply		:		DC 1.2V		Test Mode		:		Mode 1/2/3								
Location	Test Level(kV) and Result																Criteria	Result
	Air Discharge								Contact Discharge									
	2		4		8		15		2		4		6		8			
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
A1	A	A	A	A	A	A	/	/	/	/	/	/	/	/	/	/	B	PASS
A2	A	A	A	A	A	A	/	/	/	/	/	/	/	/	/	/	B	PASS
C1	/	/	/	/	/	/	/	/	/	A	A	A	A	/	/	/	B	PASS
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Test Level(kV) and Result																		
Location	HCP								VCP								Criteria	Result
	2		4		6		8		2		4		6		8			
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
Front	A	A	A	A	/	/	/	/	A	A	A	A	/	/	/	/	B	PASS
Back	A	A	A	A	/	/	/	/	A	A	A	A	/	/	/	/	B	PASS
Left	A	A	A	A	/	/	/	/	A	A	A	A	/	/	/	/	B	PASS
Right	A	A	A	A	/	/	/	/	A	A	A	A	/	/	/	/	B	PASS
Note: "/" Representative the test not applicable																		
Criteria A: There was no change operated with initial operating during the test.																		
Criteria B: The EUT function loss during the test, but self-recoverable after the test.																		
Criteria C: The system shut down during the test.																		

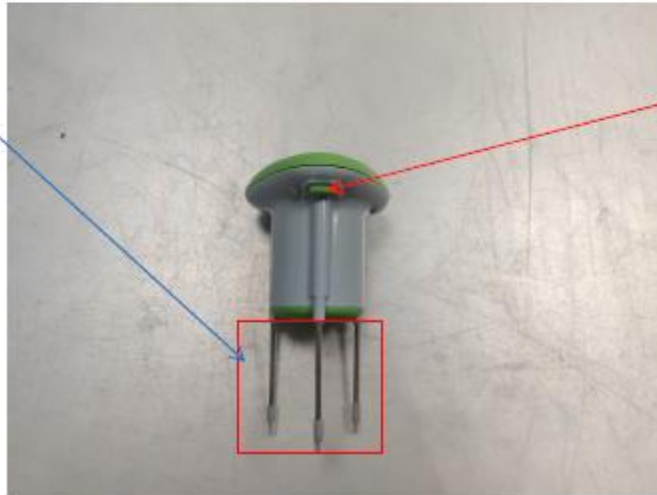


Test Location Photos

A1



C1



A2



Attachment C--RF Field Strength Susceptibility Test Data

Temperature : 24.7℃		Humidity : 46%			
Pressure(hpa) : 1020					
Power supply : DC 1.2V		Test Mode : Mode 1			
Required Performance Criteria: A					
Modulation: AM 80% , Field strength: 3V/m, Pulse: 1 kHz.					
EUT Position	Actual Performance Criteria			Judgment	
	Frequency Range 1: 80~1000MHz		Frequency Range 2: 1000~6000MHz		
	Horizontal	Vertical	Horizontal		Vertical
Front	A	A	A	A	PASS
Right	A	A	A	A	PASS
Rear	A	A	A	A	PASS
Left	A	A	A	A	PASS

--- END OF THE REPORT ---

