

TEST REPORT

ETSI EN 301 489-1 V2.2.3 (2019-11)/
ETSI EN 301 489-3 V2.3.2 (2023-01)/
Draft ETSI EN 301 489-17 V3.2.6 (2023-06)/
EN 55032:2015 + A1:2020 + A11:2020/ EN 55035:2017 + A11:2020

Report Reference No. HK2404081609-1ER

Compiled by

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Date of issue 2024/04/11

Representative Laboratory Name: Shenzhen HUAK Testing Technology Co., Ltd.

Address 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park,

Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name...... XonTel Technology Trd. Co. W.L.L

Address Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait

Test specification:

Standard...... ETSI EN 301 489-1 V2.2.3 (2019-11)/

ETSI EN 301 489-3 V2.3.2 (2023-01)/

Draft ETSI EN 301 489-17 V3.2.6 (2023-06)/

EN 55032:2015 + A1:2020 + A11:2020/

EN 55035:2017 + A11:2020

TRF Originator...... Shenzhen HUAK Testing Technology Co., Ltd.

Master TRF Dated 2019-07

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Product Name: Wireless Access Point

Trade Mark: Xontel

Product Model: XT-5400AX

Serial Model: N/A

Hardware Version.....: V2.0

Software Version.....: V2.0

Rating: DC 48V From POE Power or DC 12V From DC Power

Result PASS

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TEST REPORT

Test Report No. : HK2404081609-1ER 2024/04/11

Date of issue

Product Name : Wireless Access Point

Product Model : XT-5400AX

Serial Model : N/A

Applicant : XonTel Technology Trd. Co. W.L.L

Address : Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait

Manufacturer : XonTel Technology Trd. Co. W.L.L

Address : Kuwait City, Qibla, Aladel Tower, F21, state of Kuwait

Test Result according to the	PASS TESTING PASS
standards on page 5:	HUNKTES HUNKTES PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



** Modified History **

Report No.: HK2404081609-1ER

Revision		Description	Issued Data		Remark
Revision 1.0) Initia	Test Report Release	2024/04/11	Ja	ason Zhou
80.0				40.0	
CTING	TING	TING	TING	TING	CTING

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6	PHOTOS OF THE FUT		4 ·

1. TEST STANDARDS

The tests were performed according to following standards:

ETSI EN 301 489-1 V2.2.3 (2019-11)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

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ETSI EN 301 489-3 V2.3.2 (2023-01)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

Draft ETSI EN 301 489-17 V3.2.6 (2023-06)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility

<u>EN 55032:2015 + A1:2020 + A11:2020</u> Electromagnetic compatibility of multimedia equipment – Emission Requirements

EN 55035:2017 + A11:2020 Electromagnetic compatibility of multimedia equipment – Immunity requirements

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2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	2024/04/08
TESTING		TESTING
Testing commenced on	CO HU	2024/04/08
	630	
Testing concluded on	:	2024/04/11

2.2. Product Description

Name of EUT	Wireless Access Point	AKTES.	. 10
Model(s) Number	XT-5400AX	olo.	TING MINE
List Models	N/A	V.TEST.	LAKTES
Difference description	N/A	HOPE	
Hardware version	V2.0		
Software version	V2.0		
Antenna Type	Internal Antenna		

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2.3. Equipment under Test

Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
TSTING		0	12 V DC	0	24 V DC
THE PARTY.			Other (specified in blank be	low)	WAK.

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DC 48V From POE Power or DC 12V From DC Power

2.4. Short description of the Equipment under Test (EUT)

For details, refer to the user's manual of EUT.

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2.5. EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

	Test Item					
EMI						
Mode 1	Working(POE Power)	TING	TING	TING		
Mode 2	Working(DC Power)	JAK TES	LAKTES	LAKTES		
EMS						
Mode 1	Working(POE Power)					
Mode 2	Working(DC Power)		ESTING			

2.6. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- O Supplied by the lab

0	Power Cable	Length (m):	LTING	TING	
MKTH	MAKTE	Shield:	1	MAKTER	MALIN
	(a)	Detachable :	/		(D)

OAdapter information N/A

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2.7. Performance level

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test relative to a performance criteria defined by its manufacturer or the requestor of the test, or agreed between the manufacturer and the purchaser of the product. Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

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After test

- essential operational modes and states;
- tests of all peripheral access(hard disks, floppy disks, printers, keyboard, mouse, etc.);
- quality of software execution
- quality of data display and transmission
- quality of speech transmission

General performance criteria

based on the used product standard

used as intended.

- O based on the declaration of the manufacturer, requestor or purchaser
- performance criteria A for immunity tests with phenomena of a continuous nature;
- performance criteria B for immunity tests with phenomena of a transient nature;

During test

 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.

Performance table

Criteria

Table 1: Performance criteria

0111011	a Daning test	/ liter test
А	Shall operate as intended.	Shall operate as intended.
	May show degradation of performance	Shall be no degradation of performance (see note 2).
	(see note 1).	Shall be no loss of function.
	Shall be no loss of function.	Shall be no loss of stored data or user programmable
	Shall be no unintentional transmissions.	functions.
В	May show loss of function (one or more).	Functions shall be self-recoverable.
	May show degradation of performance	Shall operate as intended after recovering.
	(see note 1).	Shall be no degradation of performance (see note 2).
	No unintentional transmissions.	Shall be no loss of stored data or user programmable
		functions.
С	May be loss of function (one or more).	Functions shall be recoverable by the operator.
		Shall operate as intended after recovering.
		Shall be no degradation of performance (see note 2).
NOTE 1:		understood as a degradation to a level not below a
		anufacturer for the use of the apparatus as intended. In
	·	ce level may be replaced by a permissible degradation
	of performance.	
		ssible performance degradation is not specified by the
		red from the product description and documentation
		e user may reasonably expect from the apparatus if
NOTE O	used as intended.	
NOTE 2:		understood as no degradation below a minimum
		er for the use of the apparatus as intended. In some
		el may be replaced by a permissible degradation of
		l operating data or user retrievable data is allowed.
		ssible performance degradation is not specified by the
		red from the product description and documentation
	(including lealiets and advertising) and what th	e user may reasonably expect from the apparatus if

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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.

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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.

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.

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.

2.8. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization: A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2014) and CISPR Publication 22.

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35°C

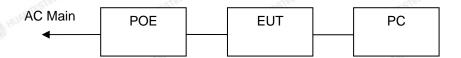
Humidity: 30-60%

Atmospheric pressure: 950-1050mbar

3.3. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

Mode 1:



Mode 2:



Table 2-1 Equipment Used in Tested System

No.	Product	Manufacture	Model No.	FCC ID
1	POE	N/A	GRT-POE20-480050A	mig /
2	PC	Lenovo	ThinkPadE450	/

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3.4. Test Description

ETSI EN 301 489-1/-3/-17 requirements		
Radiated Emission	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1 EN 55032:2015 + A1:2020 + A11:2020 Annex A.2	PASS
Conducted Emission(AC Mains)	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1	PASS
	EN 55032:2015 + A1:2020 + A11:2020 Annex A.3	PASS
Conducted Emission(Telcommunication	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1	DACC
Ports)	EN 55032:2015 + A1:2020 + A11:2020 Annex A.3	PASS
Harmonic Current Emissions	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1	NI/A
	EN IEC 61000-3-2:2019 + A1:2021	N/A
Voltage Fluctuations and Flicker	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.1	N1/A
	EN 61000-3-3:2013 + A1:2019 + A2:2021	N/A
Electrostatic Discharge	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
RF Electromagnetic Field	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
Fast Transients Common Mode	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
RF Common Mode 0,15 MHz to 80 MHz	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS
Transients and Surges	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
Voltage Dips and Interruptions	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	N/A
Surges, Line to Line and Line to Ground	ETSI EN 301 489-1 V2.2.3 (2019-11) Clause 7.2	PASS

Remark: The measurement uncertainty is not included in the test result.

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAK Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAK Testing Technology Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.90dB	(1)
Radiated Emission	1~18GHz	4.28dB	(1)
Radiated Emission	18-40GHz	5.54dB	(1)
Conducted Disturbance	0.15~30MHz	2.71dB	(1)

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

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3.6. Equipments Used during the Test

CONDUCTED EMISSION

•	JO: 10	SOTED LIVIN	001011	- Allie	_C,\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"		700	71.
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
	1	LISN	R&S	ENV216	HKE-002	Feb. 20, 2024	Feb. 19, 2025	1 year
	2	LISN	R&S	ENV216	HKE-029	Feb. 20, 2024	Feb. 19, 2025	1 year
	3	EMI Test Receiver	R&S	ESR-7	HKE-005	Feb. 20, 2024	Feb. 19, 2025	1 year

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RADIATED TEST SITE

	. 75.75.7-						
Ite	M Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 21, 2024	Feb. 20, 2026	2 year
2	EMI Test Receiver	R&S	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025	1 year
3	3 Spectrum Agilent		N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025	1 year
4	Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026	2 year
5	Preamplifie r	Schwarzbeck	EMC051845SE	HKE-015	Feb. 20, 2024	Feb. 19, 2025	1 year
6	Preamplifie r	Agilent	83051A	HKE-016	Feb. 20, 2024	Feb. 19, 2025	1 year
7	Position controller	Taiwan MF	MF7802	HKE-011	Feb. 20, 2024	Feb. 19, 2025	1 year

HARMONICS AND FILCK

l)	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
	1 -myG	Harmonic flicker tester	California Instruments	AC2000A	HKE-037	Feb. 20, 2024	Feb. 19, 2025	1 year

ESD

Item	Kind of Equipment Manufacturer		Type No.	Serial No.	Last calibration		Calibra tion period
1	ESD device	Schloder	SESD 216	HKE-023	Feb. 21, 2024	Feb. 20, 2025	1 year
RS		-717	JG		TING		

	RS							
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
	1	Power amp lifier	Vectawave	100W1000M7	HKE-142	Feb. 20, 2024	Feb. 19, 2025	1 year
	2	Power amp lifier	Vectawave	MPA-1000- 6000-100	HKE-143	Feb. 20, 2024	Feb. 19, 2025	1 year
	3	Power Met er	KEYSIGHT	E4419B	HKE-144	Feb. 20, 2024	Feb. 19, 2025	1 year
	4	Signal Gen erator	Agilent	N5181A	HKE-145	Feb. 20, 2024	Feb. 19, 2025	1 year
	5	Field intens ity probe	PMM	EP601	HKE-146	Feb. 20, 2024	Feb. 19, 2025	1 year
The results show		High gain c e rantennaxo	nlyto the sample(s) tes Schwarzbeck ept in full with our proof	ted STPL9149e sta written permission. The	ted and the sample(s) a more details and the a	re etained or 2024s Feb. 20, 2024 thenticity of the report	Feb. 19, 2026 will be confirmed at ht	sued by HU 2 year p://www.ce

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SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

- 1		22, 2,20.						
1	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
22.	1	Full- featured immunity tester	HTEC	HV1P16T	HKE-017	Feb. 20, 2024	Feb. 19, 2025	1 year
	2	Group pulse coupling clamp	HTEC	H3C	HKE-024	Feb. 20, 2024	Feb. 19, 2025	1 year

INJECTION CURRENT

Item	Kind of Equipment Manufacturer		Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
TESTING 1	Sensitivity Test Syste m	LIONCEL	RIS-6091	HKE-110	Feb. 20, 2024	Feb. 19, 2025	1 year
2	Magnetic clamp	LIONCEL	CDN-M3-16	HKE-111	Feb. 20, 2024	Feb. 19, 2025	1 year

PFMF

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	Power frequency magnetic field testing system	LIONCEL	PMF-801C-C	HKE-115	Feb. 20, 2024	Feb. 19, 2025	1 year



4. TEST CONDITIONS AND RESULTS

4.1. REQUIREMENTS

4.1.1. Radiated Emission

LIMIT

Please refer to ETSI EN 301 489-1 Clause 8.2.3

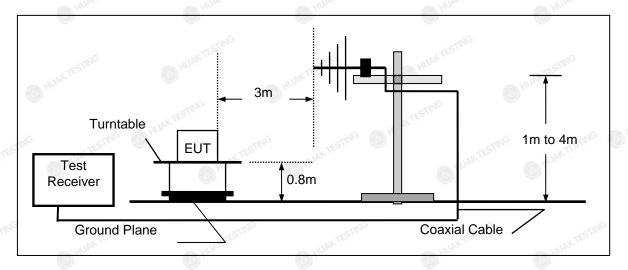
The ancillary equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A tables A.4 and A.5.

Alternatively, for ancillary equipment intended to be used exclusively in an industrial environment or telecommunication centres, the class A limits given in CENELEC EN 55032 [1], annex A tables A.2 and A.3 may be used.

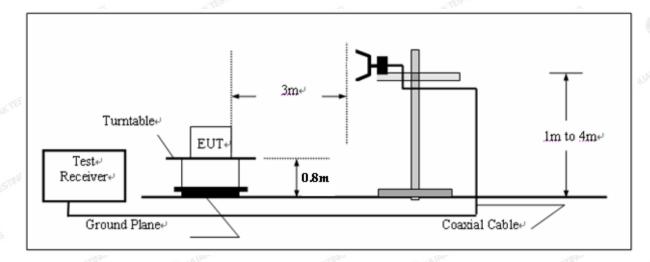
If EUT is also a FM Receiver, it shall meet CENELEC EN 55032 [3], annex A tables A.6

TEST CONFIGURATION

(a) Radiated Emission Test Set-Up, Frequency below 1000MHz



(b) Radiated Emission Test Set-Up, Frequency above 1000MHz





TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 8.2.2 and The test method shall be in accordance with CENELEC EN 55032 [1], annex A.2. for the measurement methods.

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Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

atmospheric pressure: 960 mbar

TEST RESULTS

Below 1000MHz

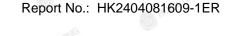


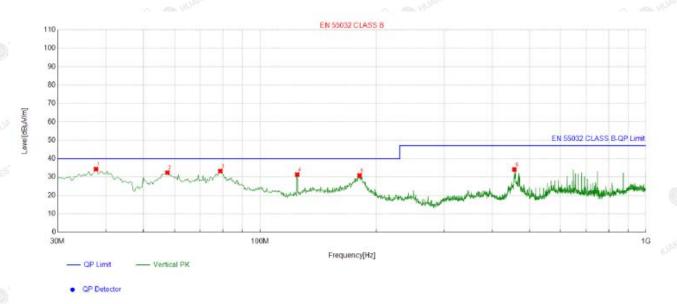
Suspe	Suspected List										
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	40.350117	-13.91	40.59	26.68	40.00	13.32	100	6	Horizontal		
2	81.750584	-18.28	50.96	32.68	40.00	7.32	100	2	Horizontal		
3	182.98766	-15.60	46.44	30.84	40.00	9.16	100	76	Horizontal		
4	343.73791	-10.18	42.81	32.63	47.00	14.37	100	259	Horizontal		
5	463.08769	-8.80	42.94	34.14	47.00	12.86	100	319	Horizontal		
6	875.15171	-1.71	42.87	41.16	47.00	5.84	100	305	Horizontal		

Remark:

Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

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Suspected List										
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	37.762588	-14.98	49.36	34.38	40.00	5.62	100	295	Vertical	
2	57.492497	-13.89	46.32	32.43	40.00	7.57	100	278	Vertical	
3	78.839613	-17.82	51.02	33.20	40.00	6.80	100	289	Vertical	
4	124.76825	-16.60	47.96	31.36	40.00	8.64	100	307	Vertical	
5	181.04701	-16.08	46.90	30.82	40.00	9.18	100	222	Vertical	
6	456.29543	-8.87	43.02	34.15	47.00	12.85	100	85	Vertical	

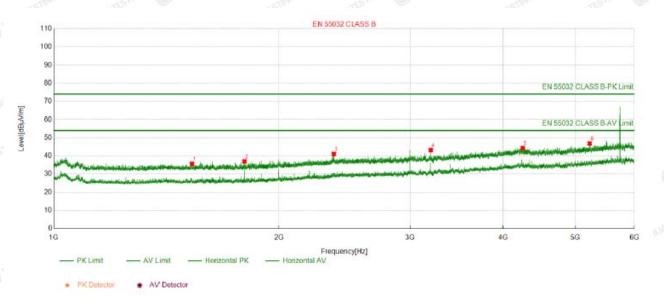
Remark:

Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

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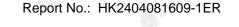
Radiated Emission From 1 GHz to 6 GHz

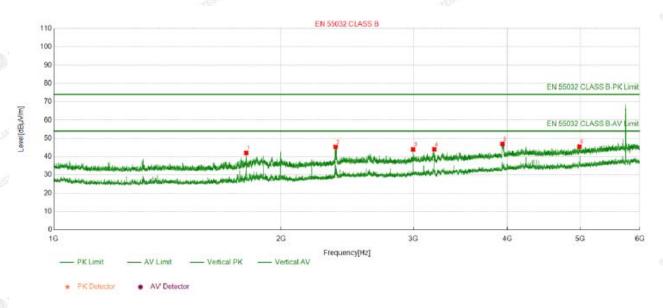


Report No.: HK2404081609-1ER

Suspe	Suspected List														
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle							
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity						
1	1529.4529	-19.00	54.58	35.58	74.00	38.42	100	170	Horizontal						
2	1798.4798	-18.53	55.59	37.06	74.00	36.94	100	303	Horizontal						
3	2370.7370	-15.43	56.45	41.02	74.00	32.98	100	158	Horizontal						
4	3197.4197	-12.48	55.61	43.13	74.00	30.87	100	62	Horizontal						
5	4250.2250	-8.64	53.00	44.36	74.00	29.64	100	5	Horizontal						
6	5227 1227	-6.91	53 74	46 83	74 00	27 17	100	95	Horizontal						







Suspe	Suspected List														
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle							
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity						
1	1798.4798	-18.53	60.64	42.11	74.00	31.89	100	359	Vertical						
2	2363.5363	-15.51	60.86	45.35	74.00	28.65	100	196	Vertical						
3	2997.7997	-13.33	57.28	43.95	74.00	30.05	100	324	Vertical						
4	3197.1197	-12.48	56.50	44.02	74.00	29.98	100	322	Vertical						
5	3940.2940	-10.49	57.53	47.04	74.00	26.96	100	334	Vertical						
6	4988.5988	-7.08	52.54	45.46	74.00	28.54	100	354	Vertical						

Remark:

Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;



4.1.2. Conducted Emission (AC Mains)

LIMIT

Please refer to ETSI EN 301 489-1 Clause 8.4.3

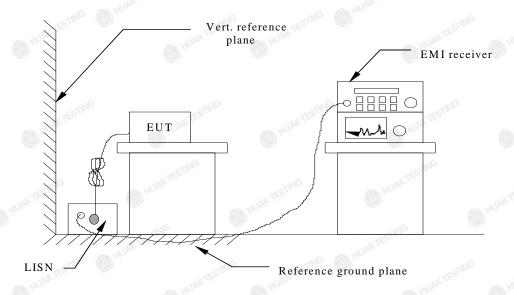
The equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A table A.10.

Alternatively, for equipment intended to be used in an industrial environment or a telecommunication centre, the class A limits given in CENELEC EN 55032 [1], annex A table A.9 can be used.

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If EUT is also a FM Receiver, it shall meet CENELEC EN 55032 [3], annex A tables A.13

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 8.4.3 and EN 55032 Clause 5 for the measurement methods.

Climatic conditions

■ ambient temperature : 25°C

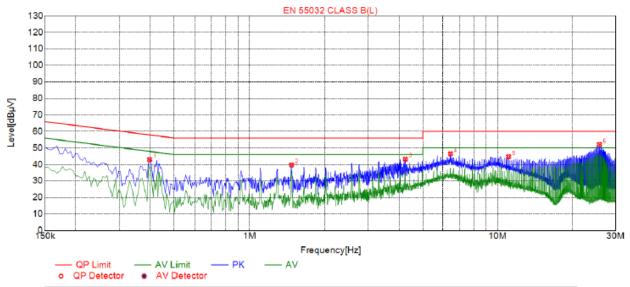
relative humidity: 55%

atmospheric pressure: 960 mbar

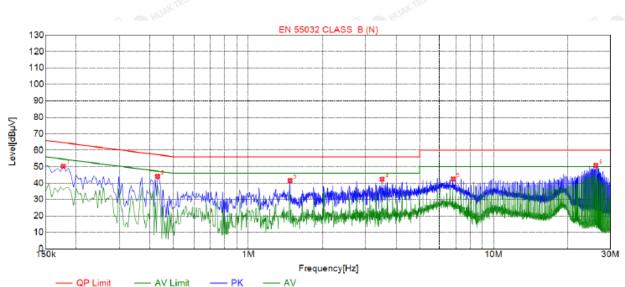
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Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре						
1	0.3975	42.98	20.04	57.91	14.93	22.94	PK	L						
2	1.4730	39.64	20.10	56.00	16.36	19.54	PK	L						
3	4.2450	43.29	20.25	56.00	12.71	23.04	PK	L						
4	6.4590	46.43	20.22	60.00	13.57	26.21	PK	L						
5	11.0715	44.71	20.01	60.00	15.29	24.70	PK	L						
6	25.7505	52.09	20.26	60.00	7.91	31.83	PK	L						



Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµ∀]	Detector	Туре						
1	0.1770	50.31	20.05	64.63	14.32	30.26	PK	N						
2	0.4290	44.06	20.05	57.27	13.21	24.01	PK	N						
3	1.4775	41.47	20.10	56.00	14.53	21.37	PK	N						
4	3.5070	42.33	20.25	56.00	13.67	22.08	PK	N						
5	6.8280	42.55	20.20	60.00	17.45	22.35	PK	N						
6	26.1240	50.82	20.26	60.00	9.18	30.56	PK	N						

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

QP Detector



4.1.3. Conducted Emission (Telecommunication Ports)

LIMIT

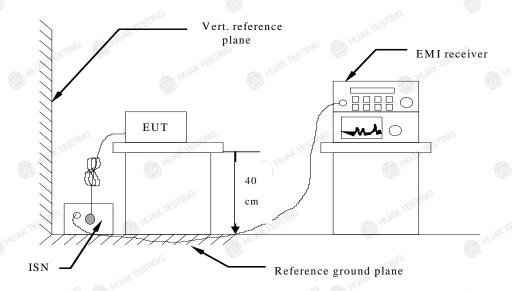
Please refer to ETSI EN 301 489-1 Clause 8.7.3

The wired network ports shall meet the class B limits given in CENELEC EN 55032 [1], annex A table A.12.

Alternatively, for equipment intended to be used exclusively in an industrial environment or a telecommunication centre, the class A limits given in CENELEC EN 55032 [1] annex A table A.11 can be used.

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TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 8.7.2 and The test method shall be in accordance with CENELEC EN 55032 [1], annex A.3. for the measurement methods.

Climatic conditions

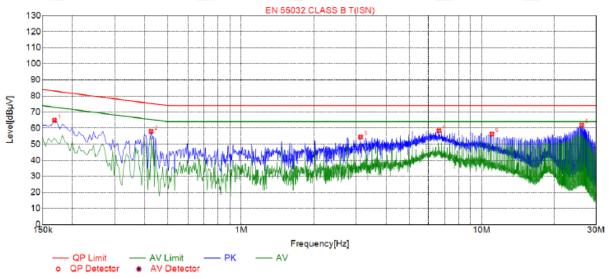
■ ambient temperature : 25°C

relative humidity: 55%

atmospheric pressure: 960 mbar

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ISN-LAN:



Sus	Suspected List														
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµ∀]	Detector	Туре							
1	0.1680	64.90	19.81	83.06	18.16	45.09	PK	ISN							
2	0.4245	57.98	19.84	75.36	17.38	38.14	PK	ISN							
3	3.1335	54.49	20.03	74.00	19.51	34.46	PK	ISN							
4	6.6345	58.34	20.03	74.00	15.66	38.31	PK	ISN							
5	11.0355	56.34	19.84	74.00	17.66	36.50	PK	ISN							
6	26.1150	61.95	20.13	74.00	12.05	41.82	PK	ISN							

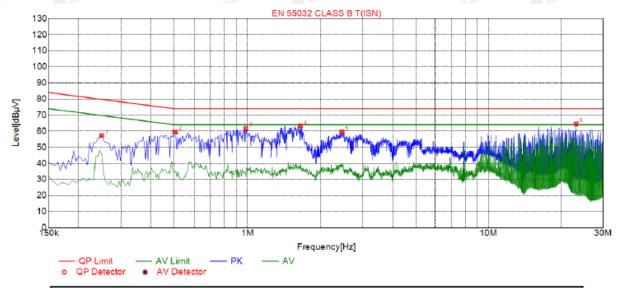
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor (

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ISN-WAN:



Sus	Suspected List													
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ√]	Margin [dB]	Reading [dBµ∀]	Detector	Туре						
1	0.2490	57.33	19.84	79.79	22.46	37.49	PK	ISN						
2	0.5010	59.46	19.84	74.00	14.54	39.62	PK	ISN						
3	0.9825	61.73	19.86	74.00	12.27	41.87	PK	ISN						
4	1.6575	63.31	19.93	74.00	10.69	43.38	PK	ISN						
5	2.4585	59.60	19.99	74.00	14.40	39.61	PK	ISN						
6	23.1270	64.58	20.06	74.00	9.42	44.52	PK	ISN						

Remark: Margin = Limit - Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

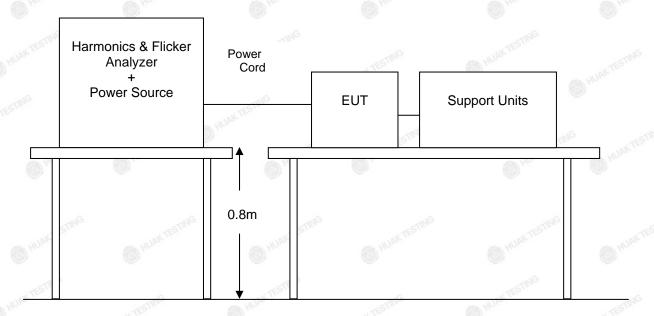


4.1.4. Harmonic Current Emission

LIMIT

Please refer to EN 61000-3-2

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-3-2 for the measurement methods.

Climatic conditions

ambient temperature : 25 ℃

relative humidity: 55%

atmospheric pressure: 960 mbar

TEST RESULTS

EUT is test by DC power supply, so it is not applicable.

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4.1.5. Voltage Fluctuation and Flicker

LIMIT

Please refer to EN 61000-3-3

TEST CONFIGURATION

Same as the configuration of the Harmonic Current Emission.

TEST PROCEDURE

Please refer to EN 61000-3-3 for the measurement methods.

Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

atmospheric pressure: 960 mbar

TEST RESULTS

EUT is test by DC power supply, so it is not applicable.

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4.1.6. Electrostatic Discharge

LIMIT

Please refer to EN 61000-4-2

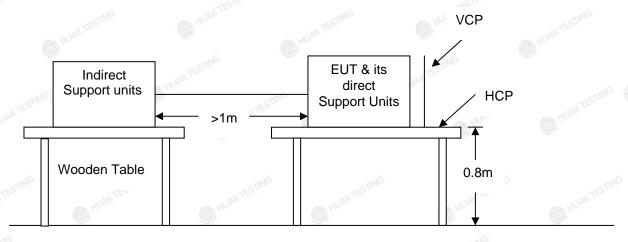
SEVERITY LEVELS OF ELECTROSTATIC DISCHARGE

Test level: Contact Discharge at $\pm 2KV, \pm 4KV$ Air Discharge at $\pm 2KV, \pm 4KV, \pm 8KV$

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	NG AND PURPLE 2	2
2 JAKTES	4 AVITESTIN	TAX TES 4
3	6	8
4	8	15
Х	Special	Special

Performance criterion: B

Test Configuration



Ground Reference Plane

Test procedure

Please refer to ETSI EN 301 489-1 Clause 9.3.2 and EN 61000-4-2 for the measurement methods.

If EUT is also a FM Receiver, it shall refer to EN 55020:2007/A11:2011 Clause 5.9 for the measurement methods.

Test results

Contact Discharge:

The ESD generator is held perpendicular to the surface to which the discharge is applied and the tip of the discharge electrode touch the surface of EUT. Then turn the discharge switch. The generator is then retriggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This The results shprocedure shall be repeated until all the air discharge completed ple(s) are retained for 30 days only. The document is issued by HUAK,

The results should be repeated by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Air Discharge:

Air discharge is used where contact discharge can't be applied. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

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Indirect discharge for horizontal coupling plane:

At least 10 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT.

Indirect discharge for vertical coupling plane:

At least 10 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

atmospheric pressure: 960 mbar

TEST RESULTS

Mode			Air	Dis	cha	rge				С	onta	act D	Disc	harç	ge			
Test level (kV)	4	1	8	3	1	0	1	5	2	2	4	1	(3	8	3	Criterion	Result
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP									Α	Α	Α	Α						PASS
VCP	TE	STING					TES	MG	Α	Α	Α	Α	MG				TESTING	PASS
Metallic parts	bar				-63	HUP			Α	Α	Α	Α				(60)	В 🗑 ну	PASS
enclosure	Α	Α	Α	Α			m/G										, NG	PASS
slot	Α	Α	Α	Α	UNP	TES					-TI	G				MAUN	TESTIN	PASS

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:
 - Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
- 3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
- 4) The Indirect (HCP/VCP) discharges description of test point as following: 1.left side 2.right side 3.front side 4.rear side
- 5) N/A denotes test is not applicable in this test report

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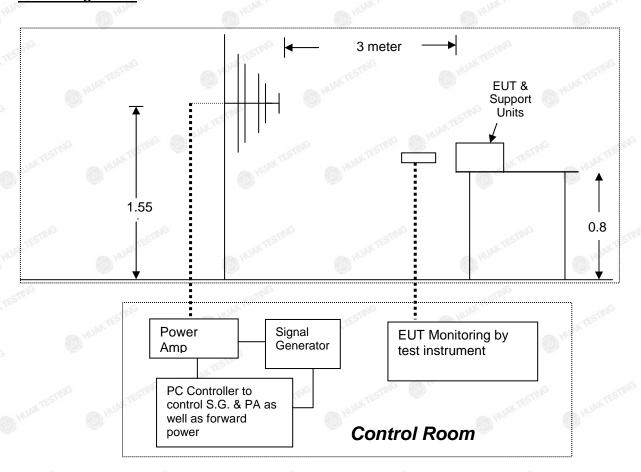


4.1.7. RF Electromagnetic Field

LIMIT

Please refer to EN 61000-4-3

Test Configuration



Test Levels of RF Electromagnetic Field

Test level: RF Field Strength: 3V/m

Level	HUAKTES	RF Field Strengtl	h(V/m)
(i) HOM		(1) 1 ⁽¹⁾	-
2	TESTING	3	TESTING
3	WG HUAT	10	THE HUAT
X		Special	KTES

Performance criterion: A

TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.2.2 and EN 61000-4-3 for the measurement methods.

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Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

atmospheric pressure: 960 mbar

TEST RESULTS

	Freq. Range (MHz)	Field	Modulation	Polarity	Position	Mode	Result (Pass/Fail)
9	80-6000	3V/m	Yes	H/V	Front	(1)	Pass
JAK TESTINI	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H/V	Front	Normal Operating	Pass
	80-6000	3V/m	Yes	H/V	Right		Pass
7ESTING 2	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H/V	Right	Normal Operating	Pass
	80-6000	3V/m	Yes	_№ H/V	Back		Pass
3 HUART	$1800(\pm 1\%),$ $2600(\pm 1\%),$ $3500(\pm 1\%),$ $5000(\pm 1\%)$	3V/m	Yes	H/V	Back	Normal Operating	Pass
UAK TEST	80-6000	3V/m	Yes	H/V	Left	JK TEST	Pass
4	1800(±1%), 2600(±1%), 3500(±1%), 5000(±1%)	3V/m	Yes	H/V	Left	Normal Operating	Pass

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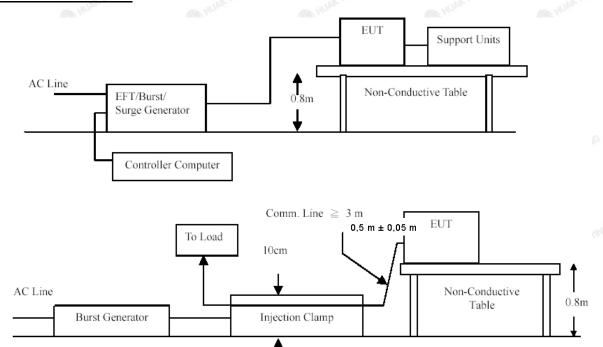


4.1.8. Fast Transients Common Mode

LIMIT

Please refer to EN 61000-4-4

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-4 for the measurement methods.

If EUT is also a FM Receiver, it shall refer to EN 55020:2007/A11:2011 Clause 5.6 for the measurement methods.

Climatic conditions

■ ambient temperature : 25°C

relative humidity: 55%

atmospheric pressure: 960 mbar

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		-C 450	No.				H with Dr.	,			-C (S)
,ii											
Co	oupling Line	0).5		1		2	4	4	Criterion	Result
		+	-	+	-	+	-	+	-		
ESTINE	L HUMK	ESTING		HUAKTESTIN	٥	AUAK TES	Line	W H	AK TESTING	HUA	TESTING
. G	N		0	-1G		3)			-16	(II)	
AC	PE		HUAY	TESTIL		ESTING		HUAKT	STILL	TESTIN	3
line					O HUS					O HUAK I	
	L+PE		WAX TESTIN					AK TESTING		В	10, 4
W TES	N+PE	unc 🚇		. 1	STING	NEST	G		TEST	og	STING (1)
III bu	L+N+PE			MHUAIN	6	Ho.		0	HUAN	(a) HO	
	DC Line										
ESTINE	Signal Line	STIA	А	TESTI	3	.46	IMG		TESTING		PASS

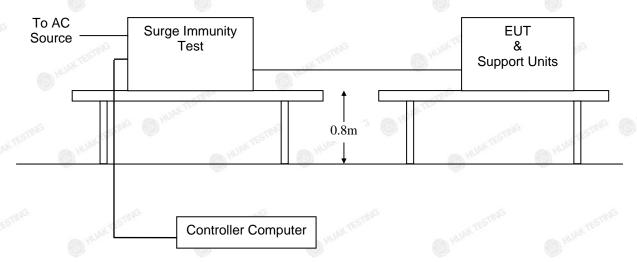


4.1.9. Surges, Line to Line and Line to Ground

LIMIT

Please refer to EN 61000-4-5

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.4.2 and EN 61000-4-5 for the measurement methods.

Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

■ atmospheric pressure: 960 mbar

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		-C-	NOW HO.				-G	ADA HO				-C 400
						Test	level					
С	oupling l	_ine	0.5	kV	1 kV		2 kV		4 kV		Criterion	Result
			+	-	+	-	+	-	+	-		
ESTING		0°	bell		TING		777	G		TING		TING
EST	L-N	90°		MUA!	TES		HUAK TES		WHU WAS	KTES	MIN HUA	TESTING
	L-IN	180°		9	,				9			
		270°		MAKTEST	Way.		-mG		LAKTES	Un	70/07	5
	HUAKTE	0°	- 6	1	7	TYAKT	, p	-	9		HUAK TESTIL	
AC	L-PE	90°		CTING	1	(B)			STING		В	
line	L-PE	180°	HUAK	(En			ΔIG	HUA	TE			NG A
AK TESTIN	11	270°			OK TESTIN	- 3	AK TESTIL			LIAKTESTI	M HUAKT	STILL (M)
	(III)	0°		0)					0	Ho	O ''	
	N-PE	90°										
ESTING	IN-FE	180°	3		TSTING		-STI	ß		TETING		TESTING
	6	270°		HUA			HUAKIL		AN HU	N. C.	MIN HUAN	110
G	DC Line	е			G))				G		
,	Signal Li	ne	Α	A	<i>p</i> -		TING		MAKTES	In.	TIN'S	PASS

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HUAK TESTING

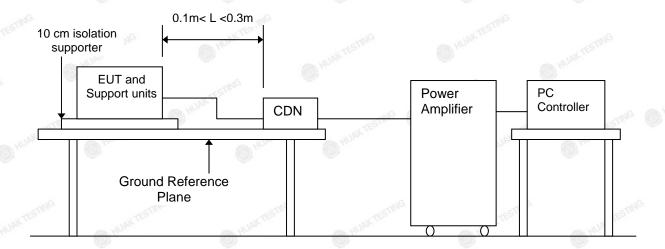
Report No.: HK2404081609-1ER

4.1.10. RF- Common Mode 0.15MHz to 80MHz

LIMIT

Please refer to EN 61000-4-6

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.5.2 and EN 61000-4-6 for the measurement methods.

Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

atmospheric pressure: 960 mbar

TEST RESULTS

Test Ports (Mode)	Freq. Range MHz)	Field Strength	Perform. Criteria	Results	Judgment
Input/ Output AC. Power Port	0.1580	3V(rms) AM Modulated 1000Hz, 80%	A	N/A	N/A
Input/ Output DC. Power Port	0.15 80		K TESTING A NHUAKPE	N/A	N/A
Signal Line	0.15 80		Α	A	PASS

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HOAK ILSTING

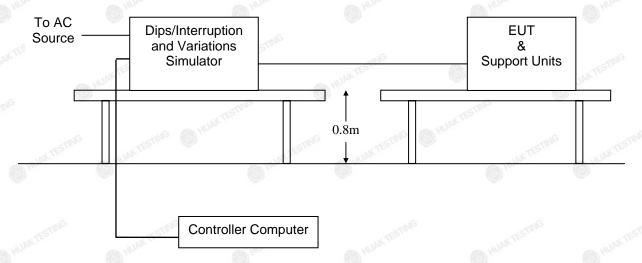
Report No.: HK2404081609-1ER

4.1.11. Voltage Dips and Interruptions

LIMIT

Please refer to EN 61000-4-11

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.7.2 and EN 61000-4-11 for the measurement methods

Climatic conditions

■ ambient temperature : 25°C

■ relative humidity: 55%

■ atmospheric pressure: 960 mbar

TEST RESULTS

EUT is test by DC power supply, so it is not applicable.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



5. Test Set-up Photos of the EUT



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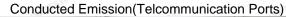


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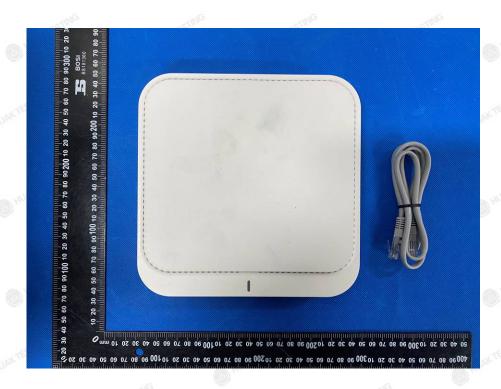








6. PHOTOS OF THE EUT



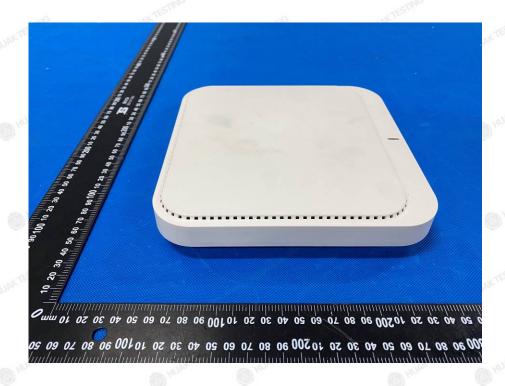
























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.....End of Report.....