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TEST REPORT

Report No.: **CTC20211141E**

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 .

Product Name: **IP Phone**

Trade Mark: XonTel

Model/Type reference.....: XT-07P

Listed Model(s): /

Standard: **EN 55032: 2015/AC: 2016**
EN 55035: 2017
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024: 2010+A1: 2015

Date of receipt of test sample.....: Mar. 10, 2020

Date of testing.....: Mar. 10, 2020 to Mar. 25, 2020

Date of issue.....: Jul. 07, 2021

Result.....: **PASS**

Compiled by:
(Printed name+signature) Jim Jiang

Jim Jiang

Supervised by:
(Printed name+signature) Eric Zhang

Eric Zhang

Approved by:
(Printed name+signature) Walter Chen



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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[EN 55032: 2015/AC: 2016](#)–Electromagnetic compatibility of multimedia equipment–Emission Requirements

[EN 55035: 2017](#)–Electromagnetic compatibility of multimedia equipment–Immunity requirements

[EN 61000-3-2: 2014](#)–Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

[EN 61000-3-3: 2013](#)–Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

[EN 55024: 2010+A1: 2015](#)–Information technology equipment — Immunity characteristics — Limits and methods of measurement

1.2. Report version

Revised No.	Date of issue	Description
01	Apr. 13, 2020	Original
02	Jul. 07, 2021	Add new applicant, manufacturer, trademark and product model based on the original report CTC20200296E01, do not affect the safety and electromagnetic compatibility performance.



1.3. Test Description

Emission			
Test Item	Standard requirement	Result	Test Engineer
Radiated Emission (Below 1G)	EN 55032: 2015/AC: 2016	Pass	Jon Huang
Radiated Emission (Above 1G)		Pass	Jon Huang
Conducted Emission(AC Mains)		Pass	Jon Huang
Conducted Emission(Signal Mains)		Pass	Jon Huang
Harmonic Current Emissions	EN 61000-3-2: 2014	N/A	Note (2)
Voltage Fluctuations and Flicker	EN 61000-3-3: 2013	Pass	Carl Wu
Immunity			
Test Item	Standard requirement	Result	Test Engineer
Electrostatic Discharge	EN 55035: 2017 EN 55024: 2010+A1: 2015	Pass	Carl Wu
Radio Frequency Electromagnetic Field		Pass	Carl Wu
Electrical Fast Transient / Burst		Pass	Carl Wu
Surges		Pass	Carl Wu
Injected Current		Pass	Carl Wu
Power frequency magnetic fields		N/A	Note (3)
Voltage Dips and Interruptions		Pass	Carl Wu
Broadband impulse noise disturbances, repetitive		N/A	Note (4)
Broadband impulse noise disturbances, Isolated		N/A	Note (4)

Note: (1) "N/A" is not applicable.

(2) The power consumption of EUT is less than 75W and no Limits apply.

(3) No magnetic sensitive components, so not applicable.

(4) No analogue/digital XDSL port, so not applicable.

(5) The measurement uncertainty is not included in the test result.



1.4. Test Facility

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. 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.

Below is the best measurement capability for CTC Laboratories, Inc.



A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U (dB)	NOTE
C01	ANSI	150kHz~30MHz	3.2	/

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U (dB)	NOTE
C02	ANSI	30~1000MHz	3.5 dB	(1)
C02	ANSI	1~18GHz	5.1 dB	(1)

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

1.6. Environmental conditions

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

Normal Temperature:	25 °C
Lative Humidity	55 %
Air Pressure	101 kPa



2. GENERAL INFORMATION

2.1. Client Information

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 .

2.2. General Description of EUT

Product Name:	IP Phone
Trade Mark:	XonTel
Model/Type reference:	XT-07P
Listed Model(s):	/
Model Difference:	/
Power Supply :	5VDC 2A(Supply by external power adapter) 48VDC Ethernet (PoE) complied switch
Hardware version:	N/A
Software version:	N/A
Remark:	The maximum operating frequency inside the EUT is 250MHz.



2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
IP Phone	XT-07P	---	XonTel
Switching Power Adaptor	F12W8-050200SPAV	---	FRECOM
Switching Power Adaptor	F12W8-050200SPAB	---	FRECOM
IP Phone	X7	---	/
Ethernet Switch	H3C S1208-PWR	219801A0SYM17B0000LS	H3C
Ethernet Switch	DGS-1008P	QB842D1000045	D-Link
Router	AC9	---	Tenda
Cable Information			
Name	Shielded Type	Ferrite Core	Length
Lan Cable	Unshielded	NO	1.5m
DC Cable	Unshielded	NO	1.5m



2.4. Description of Test Modes

Test mode	Description
1	AC/DC Adapter + Telephony
2	PoE + Telephony

Test item	Test mode
Radiated Emission	1, 2
Conducted Emission(AC Mains)	1
Conducted Emission(Signal Mains)	1
Voltage Fluctuations and Flicker	1
Electrostatic Discharge	1, 2
Radio Frequency Electromagnetic Field	1, 2
Electrical Fast Transient / Burst	1
Surges	1
Injected Current	1
Voltage Dips and Interruptions	1



2.5. Measurement Instruments List

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 27, 2020
2	LISN	R&S	ENV216	101113	Dec. 27, 2020
3	ISN CAT5	Schwarzbeck	NTFM8158	CAT5-8158-00 46	Dec. 27, 2020
4	ISN CAT6	Schwarzbeck	NTFM8158	CAT6-8158-00 46	Dec. 27, 2020
5	EMI Test Receiver	R&S	ESCI	100658	Dec. 27, 2020
6	Current Probe	CYBERTEK	EM5011	E165011025	Dec. 27, 2020
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 27, 2020
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 27, 2020
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 27, 2020
4	Spectrum Analyzer	R&S	FSV40-N	101331	Dec. 27, 2020
5	Pre-Amplifier	SONOMA	310	186194	Dec. 27, 2020
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 27, 2020
7	Test Receiver	R&S	ESCI7	100967	Dec. 27, 2020
8	Antenna Mast	UC	UC3000	N/A	N/A
9	Turn Table	UC	UC3000	N/A	N/A
Harmonic Current Emissions & Voltage Fluctuations and Flicker					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Harmonic Flicker Analyzer	Voltech	PM6000	200006700723	Dec. 27, 2020
2	Programmable AC Power Source	Mtoni	PHF1530	MTPS001	Dec. 27, 2020
Power Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100658	Dec. 27, 2020
2	Power Absorbing Clamp	R&S	MDS-21	100429	Dec. 27, 2020
Electrostatic Discharge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	ESD Simulator	EM TEST	DITO	V1113109156	Dec. 27, 2020



RF Electromagnetic Field					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	High Gain Log-Periodic Antenna	R&S	HL046E	100037	Dec. 27, 2020
2	Stacked Log.-Per. Antenna	Schwarzbeck	STLP 9149	9149-658	Dec. 27, 2020
3	Power Amplifier	BONN ELEKTRONIK	BLWA0830-160/100/40D	76788	Dec. 27, 2020
4	Power Amplifier	Micotop	MPA-3-6G-50	MPA1706258	Dec. 27, 2020
5	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 27, 2020
6	Turn Table	UC	UC3000	N/A	N/A
Fast Transients Common Mode					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Electrical fast transient generator	3ctest	EFT-4003G	EC0471140	Dec. 27, 2020
2	Coupling/Decoupling Clamp	3ctest	EFTC	EC0441141	Dec. 27, 2020
Surges					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Surge generator	3ctest	SG-5006G	EC5581149	Dec. 27, 2020
2	Surge CDN	3ctest	SGN-20G	EC5551128	Dec. 27, 2020
3	Network Surge Generator	3ctest	CWS 600T	ES0311603	Dec. 27, 2020
4	Network Surge CDN	3ctest	CDN 405T8A1	ES2731605	Dec. 27, 2020
RF Common Mode					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	C/S Generator	SCHLODER	CDG6000	126A1266	Dec. 27, 2020
2	Coupling/Decoupling Network	SCHLODER	CDN M2+3	A2210258	Dec. 27, 2020
3	Coupling/Decoupling Network	TESEQ GmbH	CDN T8-10	45011	Dec. 27, 2020
4	6dB Attenuator	N/A	100W/6dB	N/A	Dec. 27, 2020
Power Frequency Magnetic Field					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Power Frequency Magnetic Field Generator	3ctest	PFMF-1200G	EC0111101	Dec. 27, 2020
Voltage dips and interruptions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Voltage dips and up generator	3ctest	VDG-1105G	EC0171116	Dec. 27, 2020

Note: The Cal. Interval was one year.

3. EMC EMISSION TEST

3.1. Radiated Emission

LIMIT

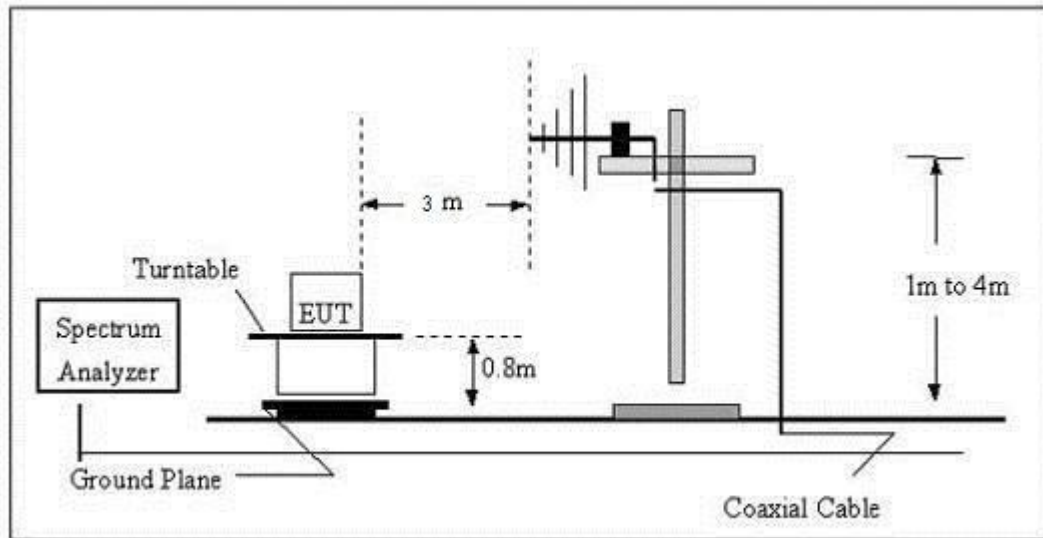
Please refer to CENELEC EN 55032 Annex A Table A.4 & A.5.

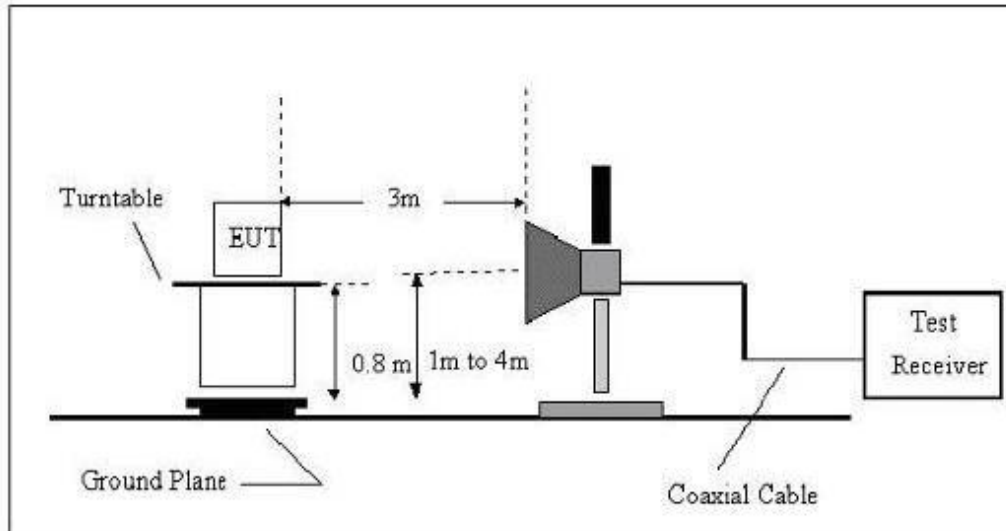
Frequency range (MHz)	Quasi-peak limits dB μ V/m@3m	Quasi-peak limits dB μ V/m@10m
30~230	40	30
230~1000	47	37

Frequency range (GHz)	Average limits dB μ V/m@3m	Peak limits dB μ V/m@3m
1 ~ 3	50	70
3 ~ 6	54	74

TEST CONFIGURATION

(A) Radiated Emission Test Set-Up Frequency below 1 GHz



(B) Radiated Emission Test Set-Up Frequency above 1GHz**TEST PROCEDURE**

Please refer to CENELEC EN 55032 Clause 6.3 for the measurement methods.

The maximum operating frequency inside the EUT is 250MHz, and the radiated emission test is tested to 6GHz.

TEST MODE

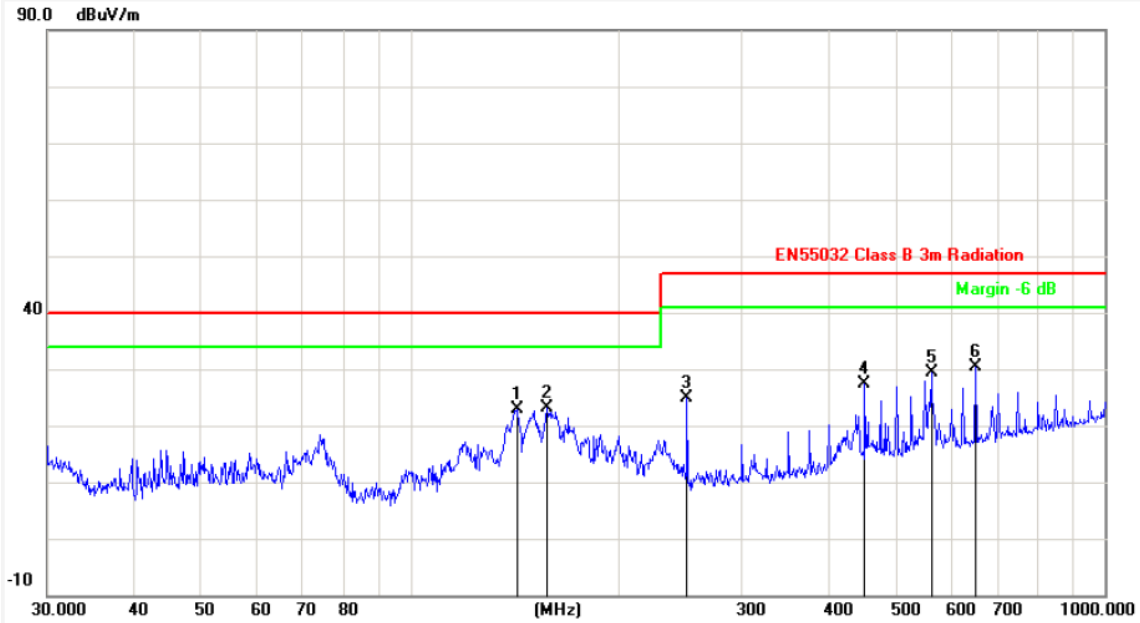
Please refer to the Clause 2.3

TEST RESULTS



(1) Below 1GHz

Test Mode	1
Polarization	Horizontal
Test Voltage	230V 50Hz



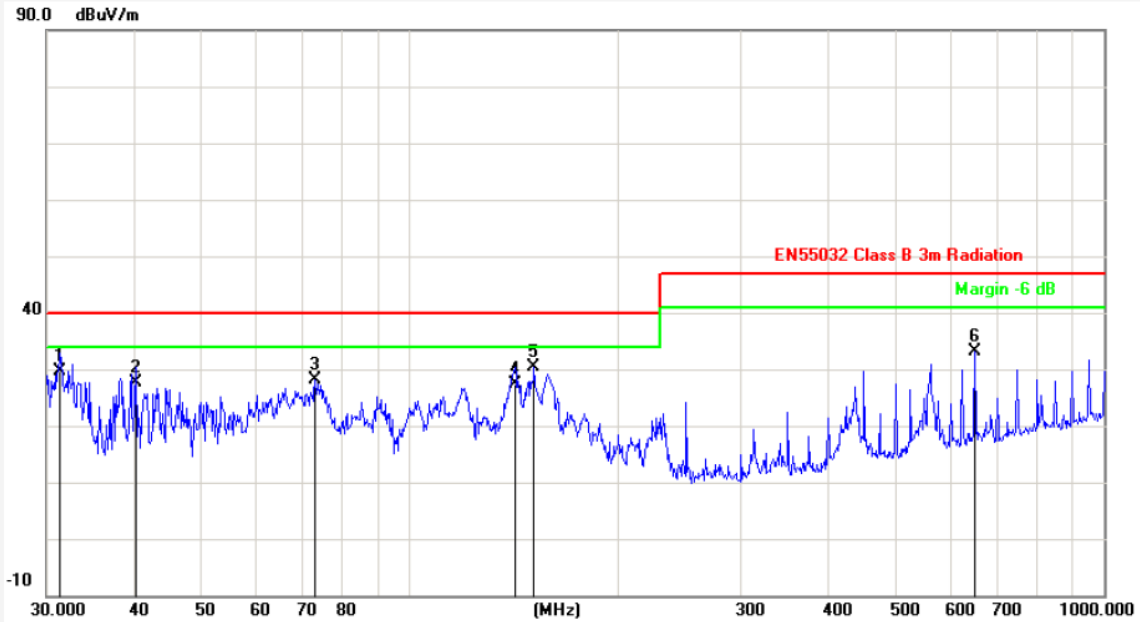
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	142.3243	-17.44	40.20	22.76	40.00	-17.24	QP
2	157.0072	-17.38	40.40	23.02	40.00	-16.98	QP
3	250.3010	-19.11	43.91	24.80	47.00	-22.20	QP
4	451.1349	-14.48	41.84	27.36	47.00	-19.64	QP
5	562.6622	-12.81	42.28	29.47	47.00	-17.53	QP
6	651.9416	-11.46	41.88	30.42	47.00	-16.58	QP

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	1
Polarization	Vertical
Test Voltage	230V 50Hz



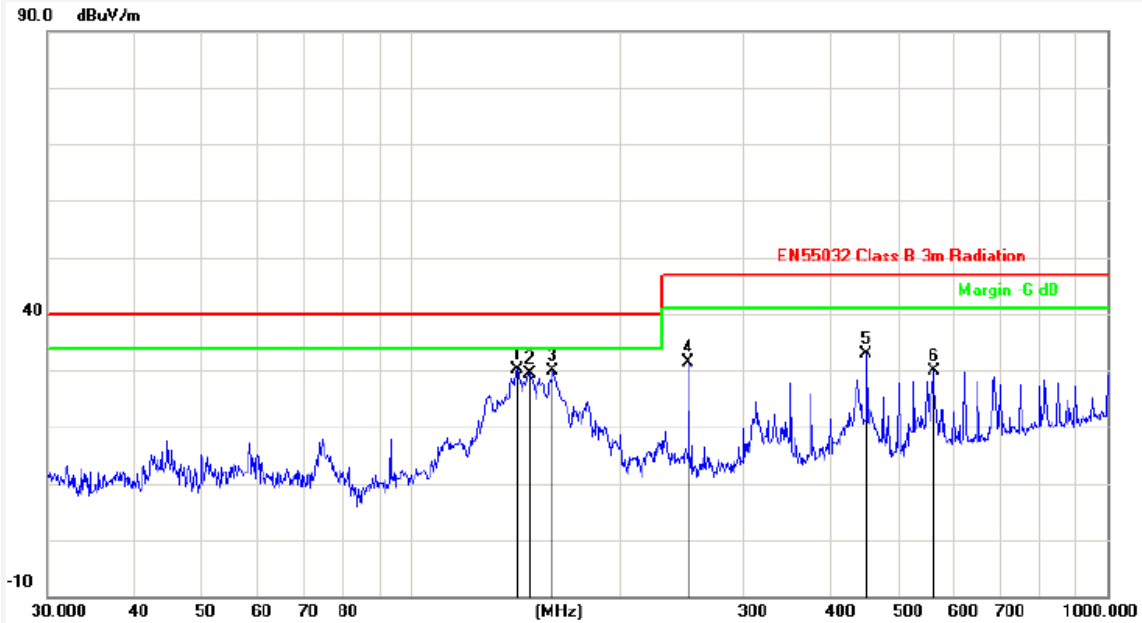
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.3992	-18.13	47.73	29.60	40.00	-10.40	QP
2	40.2754	-17.31	45.01	27.70	40.00	-12.30	QP
3	73.1025	-20.88	48.89	28.01	40.00	-11.99	QP
4	141.8262	-17.49	44.99	27.50	40.00	-12.50	QP
5	151.0663	-16.87	47.37	30.50	40.00	-9.50	QP
6	651.9415	-11.46	44.63	33.17	47.00	-13.83	QP

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	1
Polarization	Horizontal
Test Voltage	110V 60Hz



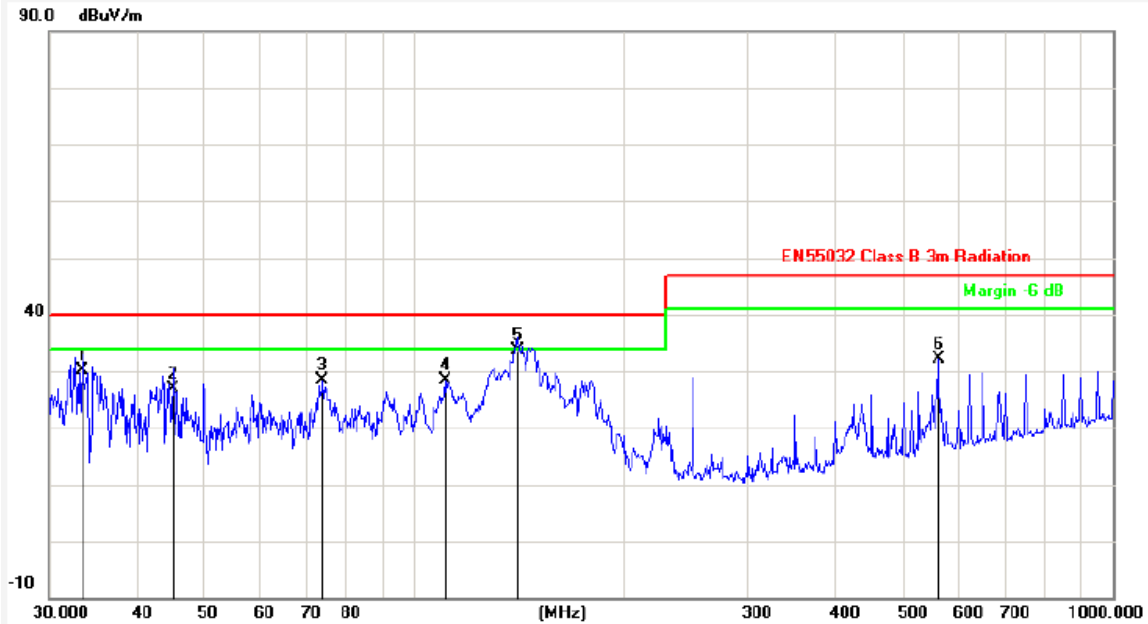
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	141.8262	-17.49	47.69	30.20	40.00	-9.80	QP
2	147.9214	-16.95	46.44	29.49	40.00	-10.51	QP
3	159.7844	-17.61	47.55	29.94	40.00	-10.06	QP
4	250.3010	-19.11	50.60	31.49	47.00	-15.51	QP
5	451.1349	-14.48	47.27	32.79	47.00	-14.21	QP
6	562.6622	-12.81	42.80	29.99	47.00	-17.01	QP

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	1
Polarization	Vertical
Test Voltage	110V 60Hz



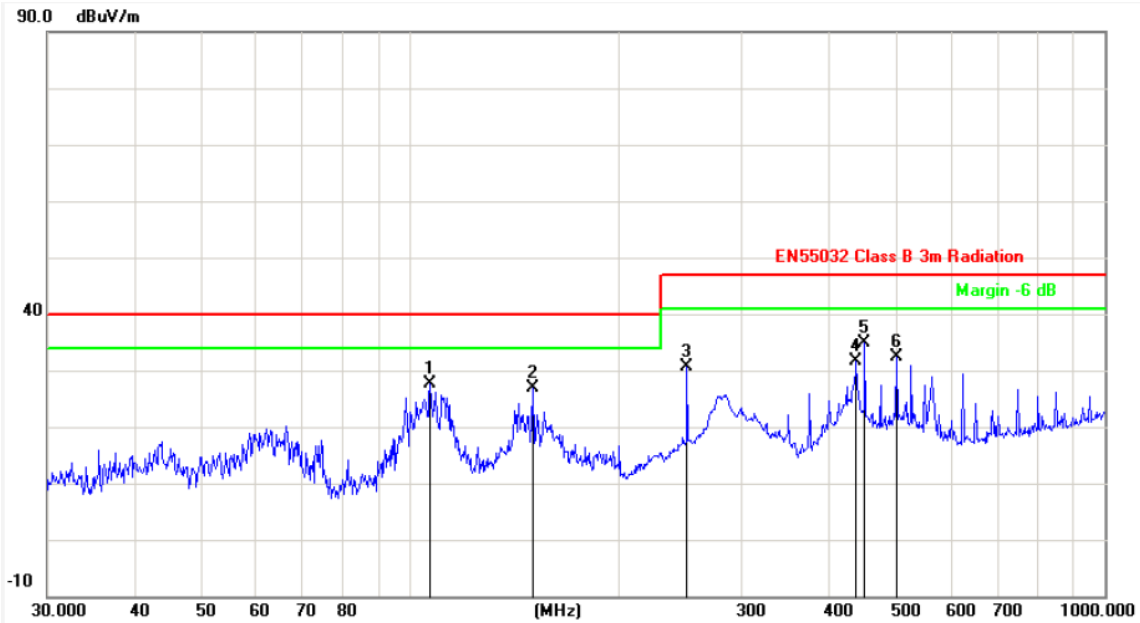
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.4449	-18.05	48.15	30.10	40.00	-9.90	QP
2	45.2166	-17.67	44.67	27.00	40.00	-13.00	QP
3	73.8756	-21.00	49.35	28.35	40.00	-11.65	QP
4	110.5687	-20.10	48.47	28.37	40.00	-11.63	QP
5	140.3420	-17.61	51.21	33.60	40.00	-6.40	QP
6	562.6624	-12.81	44.94	32.13	47.00	-14.87	QP

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	2
Polarization	Horizontal



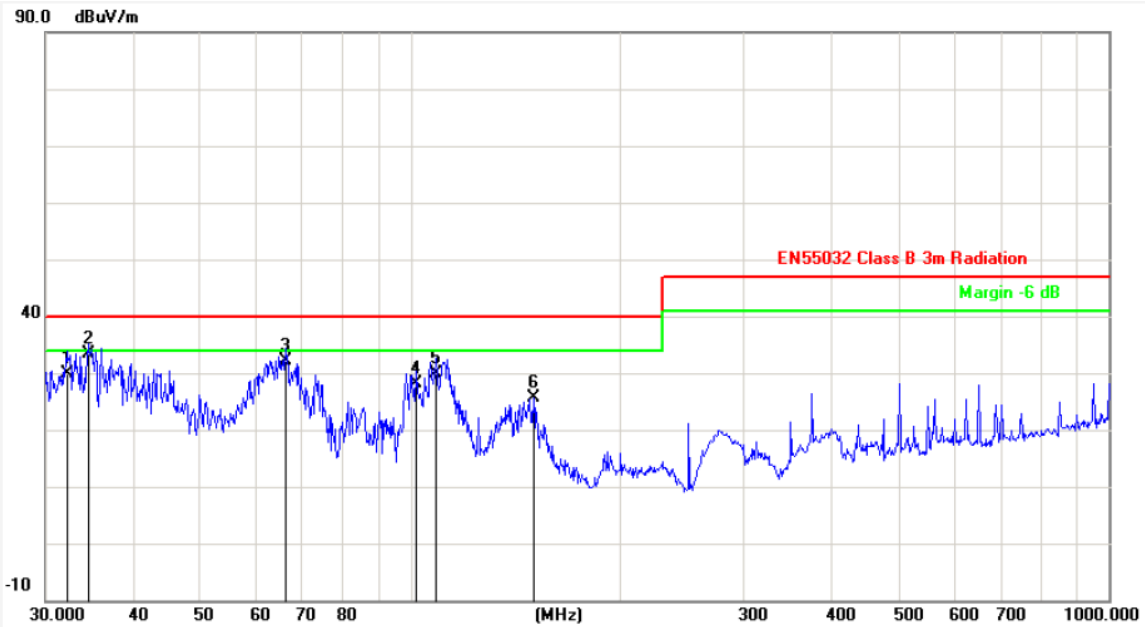
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	106.7587	-20.41	47.96	27.55	40.00	-12.45	QP
2	150.0107	-16.77	43.55	26.78	40.00	-13.22	QP
3	250.3009	-19.11	49.64	30.53	47.00	-16.47	QP
4	438.6553	-14.76	46.31	31.55	47.00	-15.45	QP
5	451.1349	-14.48	49.47	34.99	47.00	-12.01	QP
6	501.1788	-13.82	46.17	32.35	47.00	-14.65	QP

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	2
Polarization	Vertical



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.1794	-18.11	48.11	30.00	40.00	-10.00	QP
2	34.5172	-18.02	51.42	33.40	40.00	-6.60	QP
3	66.2660	-19.70	51.90	32.20	40.00	-7.80	QP
4	102.0013	-20.82	48.92	28.10	40.00	-11.90	QP
5	108.6470	-20.26	50.26	30.00	40.00	-10.00	QP
6	150.0107	-16.77	42.38	25.61	40.00	-14.39	QP

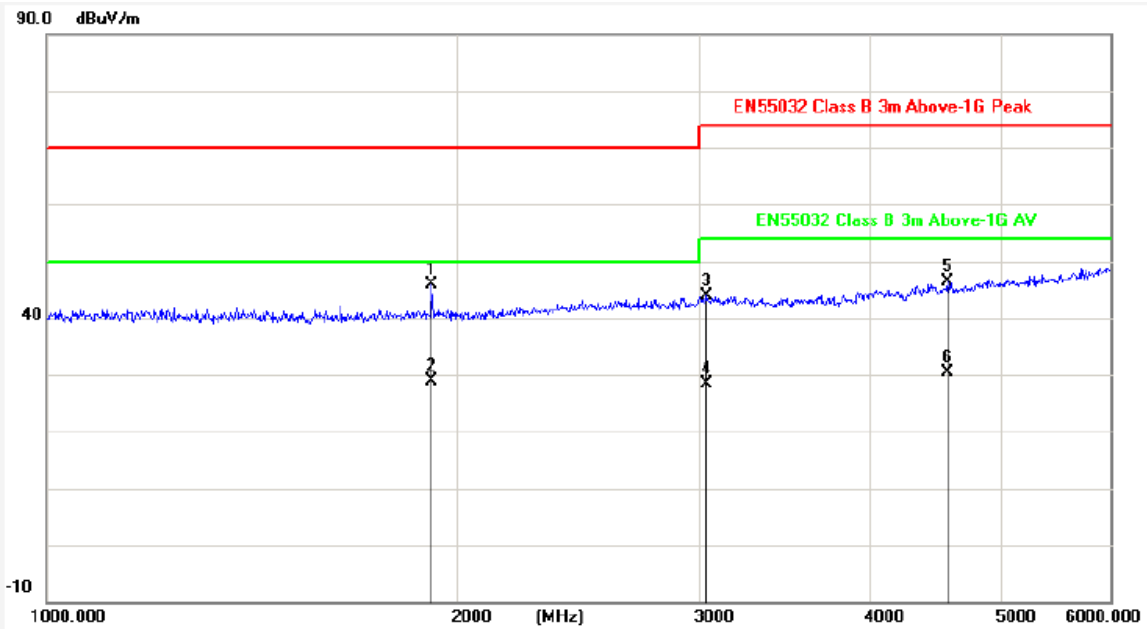
Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



(2) Above 1GHz

Test Mode	1
Polarization	Horizontal
Test Voltage	230V 50Hz



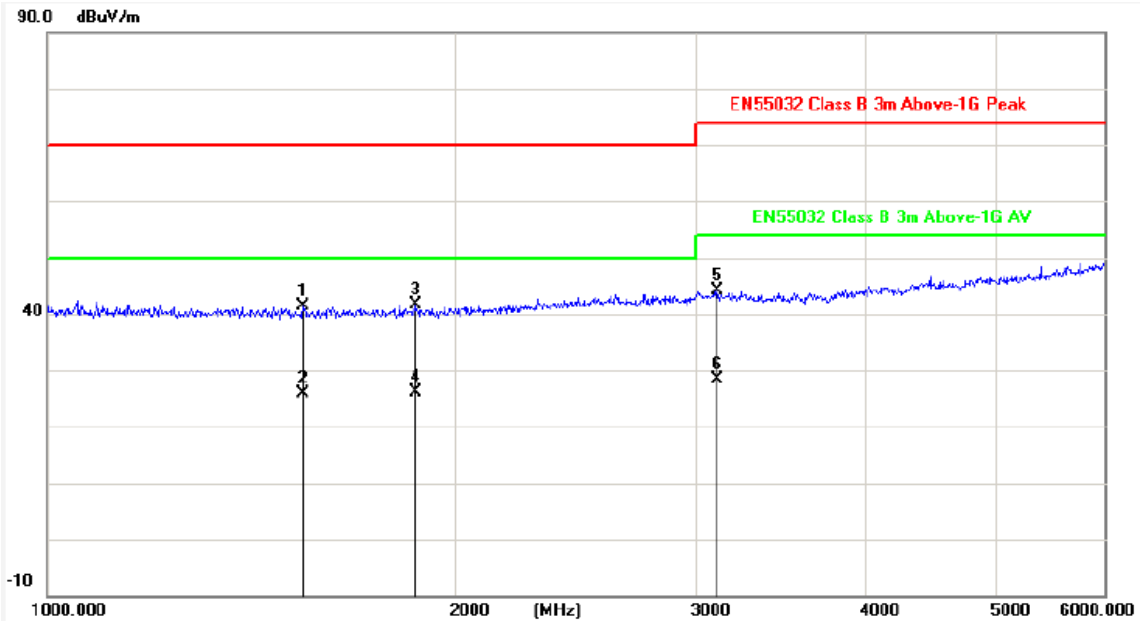
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1912.893	-10.33	56.09	45.76	70.00	-24.24	peak
2	1912.893	-10.33	39.33	29.00	50.00	-21.00	AVG
3	3042.509	-6.53	50.34	43.81	74.00	-30.19	peak
4	3042.509	-6.53	34.93	28.40	54.00	-25.60	AVG
5	4561.357	-3.51	49.85	46.34	74.00	-27.66	peak
6	4561.357	-3.51	33.81	30.30	54.00	-23.70	AVG

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	1
Polarization	Vertical
Test Voltage	230V 50Hz



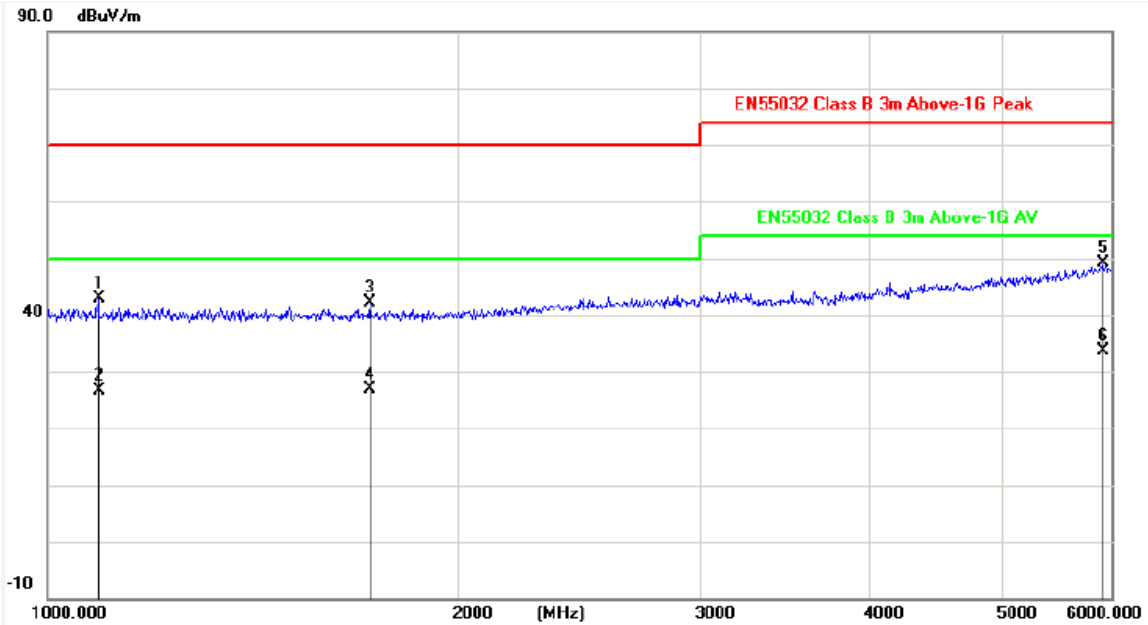
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1542.811	-11.18	52.51	41.33	70.00	-28.67	peak
2	1542.811	-11.18	37.08	25.90	50.00	-24.10	AVG
3	1868.851	-10.57	52.19	41.62	70.00	-28.38	peak
4	1868.851	-10.57	36.77	26.20	50.00	-23.80	AVG
5	3114.210	-6.53	50.77	44.24	74.00	-29.76	peak
6	3114.210	-6.53	35.03	28.50	54.00	-25.50	AVG

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	1
Polarization	Horizontal
Test Voltage	110V 60Hz



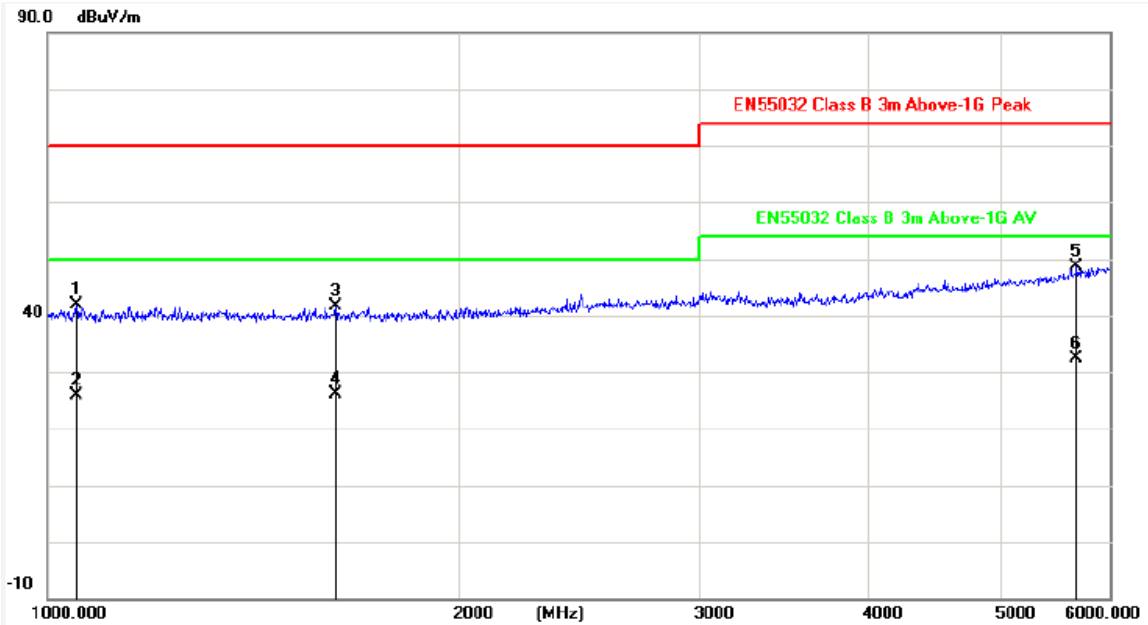
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1089.811	-12.30	55.29	42.99	70.00	-27.01	peak
2	1089.811	-12.30	38.90	26.60	50.00	-23.40	AVG
3	1720.996	-11.03	53.05	42.02	70.00	-27.98	peak
4	1720.996	-11.03	37.93	26.90	50.00	-23.10	AVG
5	5914.609	0.50	48.59	49.09	74.00	-24.91	peak
6	5914.609	0.50	33.10	33.60	54.00	-20.40	AVG

Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
2. Margin value = Level – Limit value



Test Mode	1
Polarization	Vertical
Test Voltage	110V 60Hz



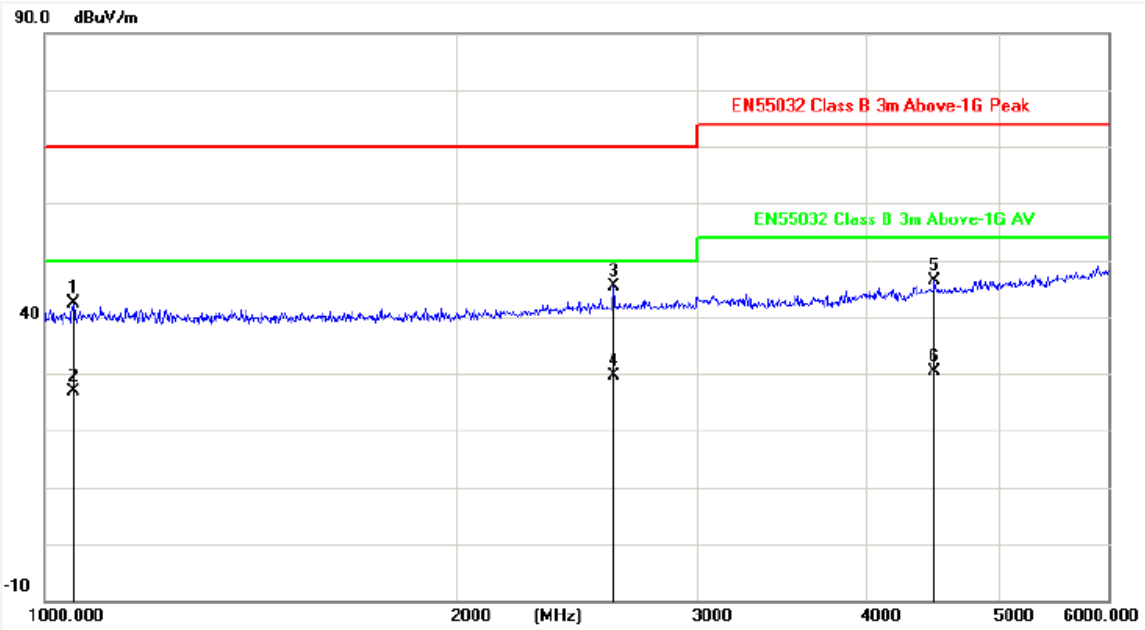
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1049.567	-12.36	54.23	41.87	70.00	-28.13	peak
2	1049.567	-12.36	38.16	25.80	50.00	-24.20	AVG
3	1625.096	-11.16	52.67	41.51	70.00	-28.49	peak
4	1625.096	-11.16	37.26	26.10	50.00	-23.90	AVG
5	5675.819	-0.42	49.10	48.68	74.00	-25.32	peak
6	5675.819	-0.42	32.72	32.30	54.00	-21.70	AVG

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	2
Polarization	Horizontal



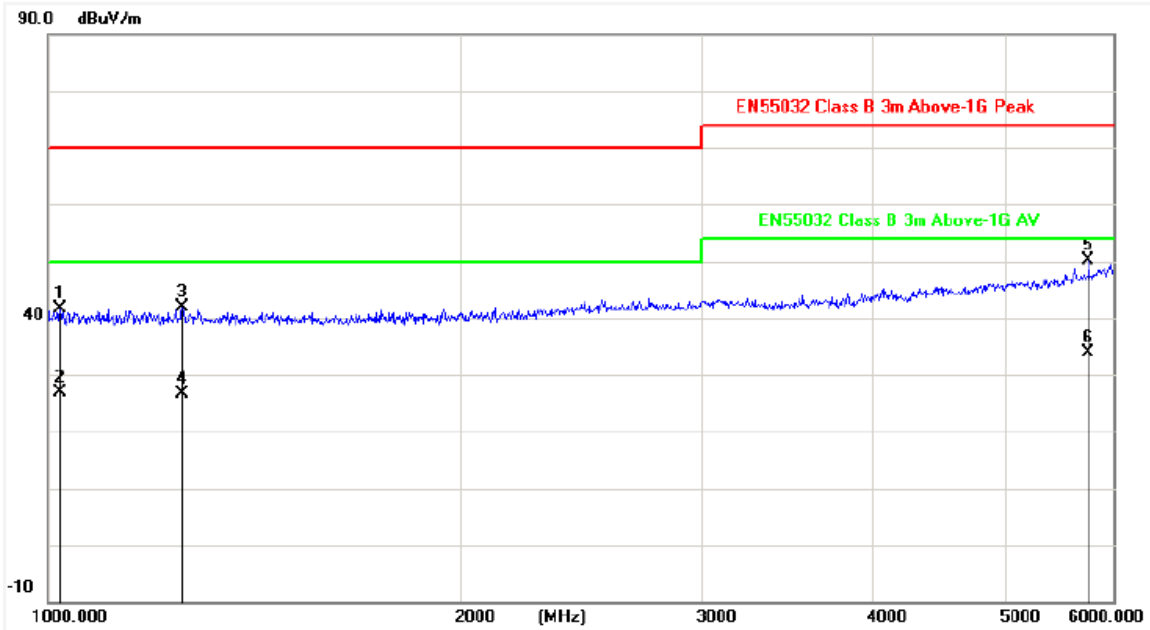
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1049.567	-12.36	54.64	42.28	70.00	-27.72	peak
2	1049.567	-12.36	39.16	26.80	50.00	-23.20	AVG
3	2608.020	-7.36	52.81	45.45	70.00	-24.55	peak
4	2608.020	-7.36	37.06	29.70	50.00	-20.30	AVG
5	4480.357	-3.75	50.03	46.28	74.00	-27.72	peak
6	4480.357	-3.75	34.05	30.30	54.00	-23.70	AVG

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



Test Mode	2
Polarization	Vertical



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1019.905	-12.41	54.04	41.63	70.00	-28.37	peak
2	1019.905	-12.41	39.31	26.90	50.00	-23.10	AVG
3	1253.277	-11.86	53.67	41.81	70.00	-28.19	peak
4	1253.277	-11.86	38.46	26.60	50.00	-23.40	AVG
5	5757.763	-0.10	50.15	50.05	74.00	-23.95	peak
6	5757.763	-0.10	34.10	34.00	54.00	-20.00	AVG

Remark:

- Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
- Margin value = Level – Limit value



3.2. Conducted Emission (AC Mains)

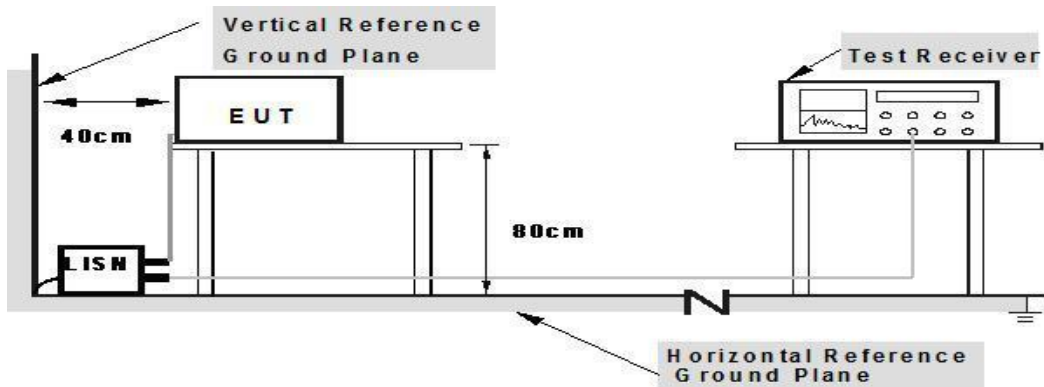
LIMIT

Please refer to CENELEC EN 55032 Annex A3 Table A.10.

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE 1 The lower limit shall apply at the transition frequencies.
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

TEST CONFIGURATION



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

TEST PROCEDURE

Please refer to CENELEC EN 55032 Annex A3 Table A.8.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Note:

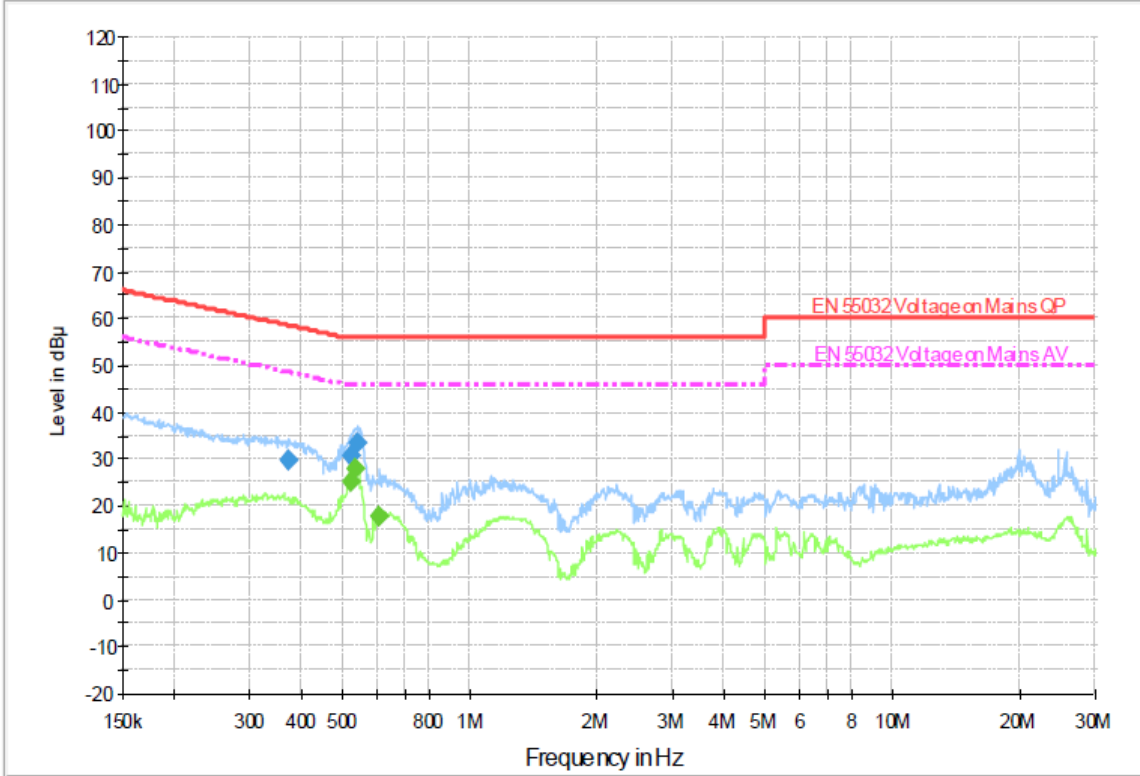
Factor = Insertion loss of LISN + Cable Loss

Limit = Limit stated in standard

Margin = Limit (dBuV) – Result (dBuV)



Test Mode	1
Polarization	L
Test Voltage	230V 50Hz



Final Measurement Detector 1

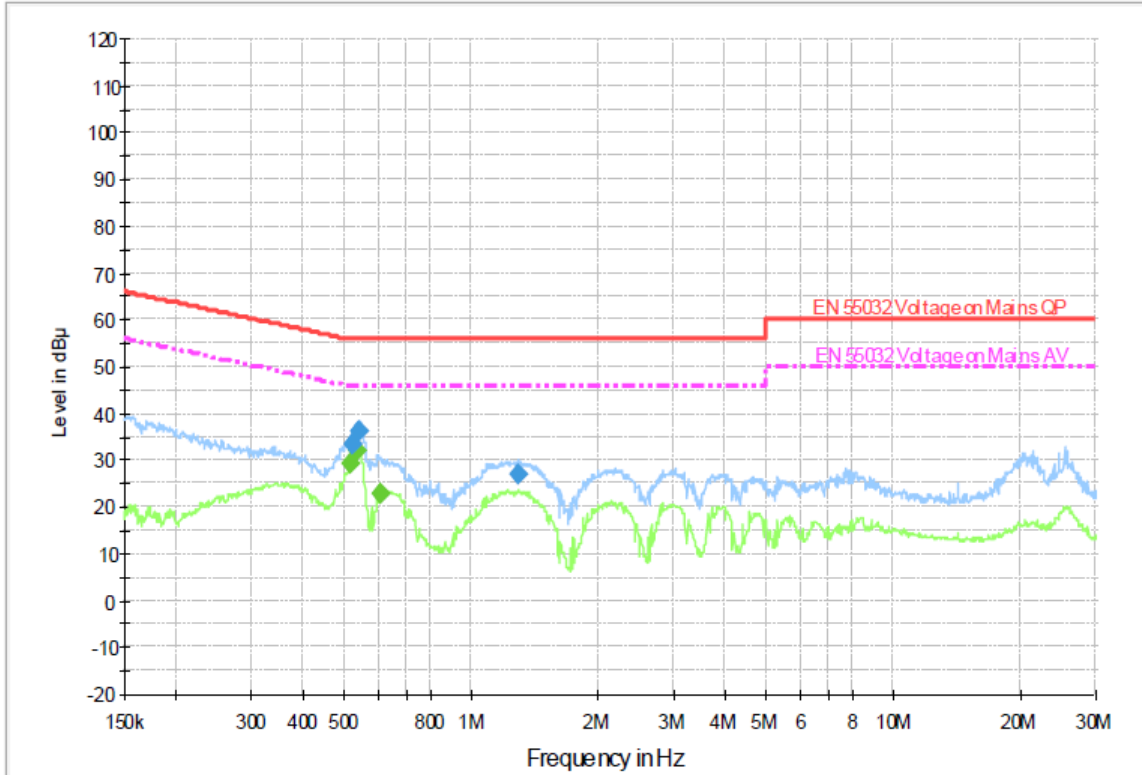
Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.372720	29.9	1000.00	9.000	On	L1	9.4	28.5	58.4	
0.519130	30.7	1000.00	9.000	On	L1	9.4	25.3	56.0	
0.540270	33.6	1000.00	9.000	On	L1	9.4	22.4	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.519130	25.3	1000.00	9.000	On	L1	9.4	20.7	46.0	
0.535980	27.9	1000.00	9.000	On	L1	9.4	18.1	46.0	
0.609010	17.7	1000.00	9.000	On	L1	9.4	28.3	46.0	



Test Mode	1
Polarization	N
Test Voltage	230V 50Hz



Final Measurement Detector 1

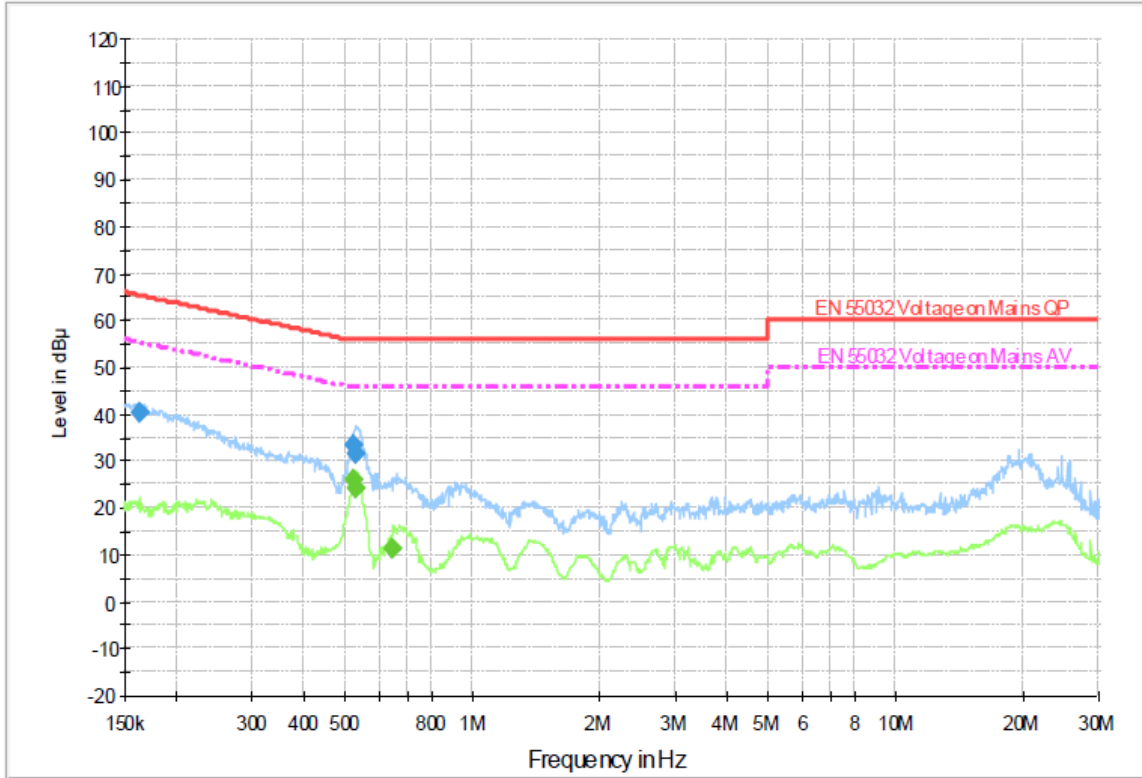
Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519130	33.5	1000.00	9.000	On	N	9.4	22.5	56.0	
0.540270	36.0	1000.00	9.000	On	N	9.4	20.0	56.0	
1.284780	26.9	1000.00	9.000	On	N	9.5	29.1	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.517060	29.5	1000.00	9.000	On	N	9.4	16.5	46.0	
0.535980	32.1	1000.00	9.000	On	N	9.4	13.9	46.0	
0.609010	22.6	1000.00	9.000	On	N	9.4	23.4	46.0	



Test Mode	1
Polarization	L
Test Voltage	110V 60Hz



Final Measurement Detector 1

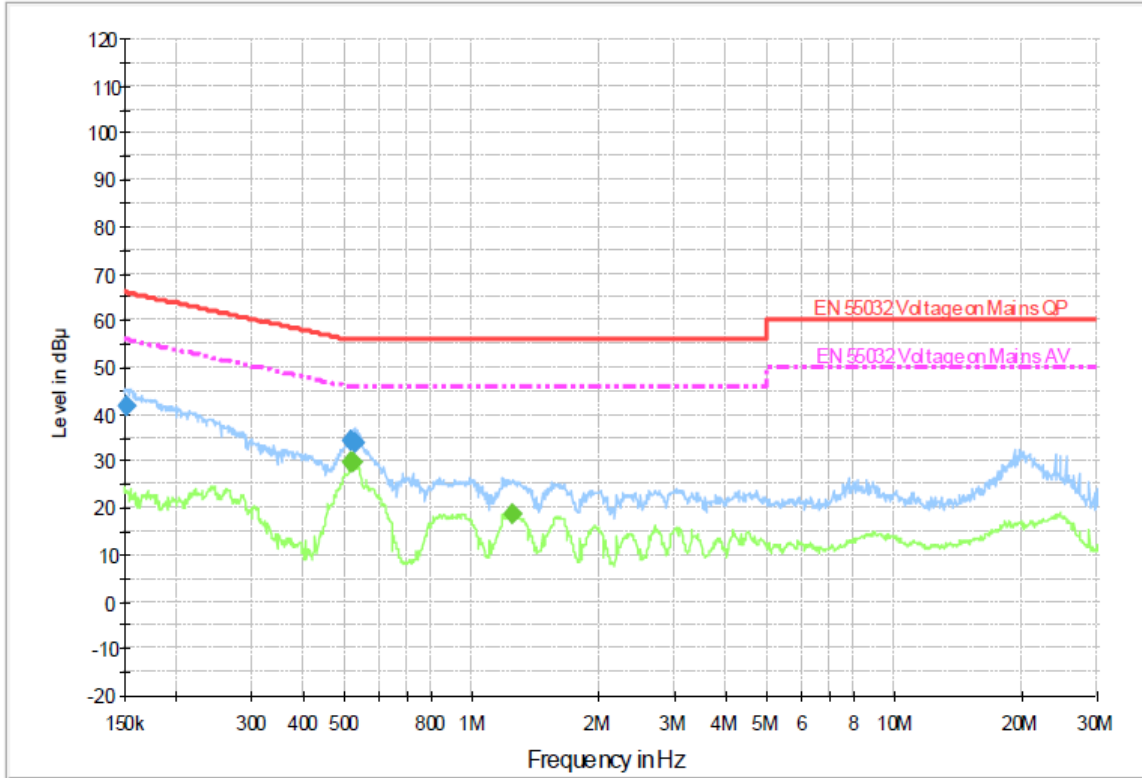
Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.163120	40.4	1000.00	9.000	On	L1	9.4	24.9	65.3	
0.519130	33.4	1000.00	9.000	On	L1	9.4	22.6	56.0	
0.529600	31.5	1000.00	9.000	On	L1	9.4	24.5	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519130	25.9	1000.00	9.000	On	L1	9.4	20.1	46.0	
0.527490	24.3	1000.00	9.000	On	L1	9.4	21.7	46.0	
0.646590	11.5	1000.00	9.000	On	L1	9.4	34.5	46.0	



Test Mode	1
Polarization	N
Test Voltage	110V 60Hz



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.152410	41.7	1000.00	9.000	On	N	9.4	24.2	65.9	
0.517060	34.3	1000.00	9.000	On	N	9.4	21.7	56.0	
0.525380	33.8	1000.00	9.000	On	N	9.4	22.2	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.517060	29.7	1000.00	9.000	On	N	9.4	16.3	46.0	
0.523290	29.7	1000.00	9.000	On	N	9.4	16.3	46.0	
1.249380	18.8	1000.00	9.000	On	N	9.5	27.2	46.0	

3.3. Conducted Emission (Signal Mains)

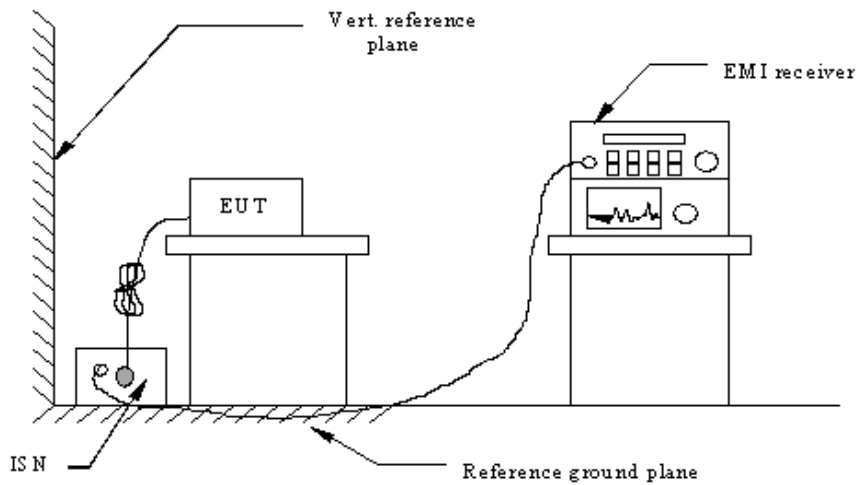
LIMIT

Please refer to CENELEC EN 55032 Annex A Table A.12.

Frequency range (MHz)	Voltage Limits dB(μ V)		Current limits dB(μ A)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	84 ~ 74	74 ~ 64	40 ~ 30	30 ~ 20
0.5 ~ 30	74	64	30	20

Note: if “150 Ω to 50 Ω adaptor” applied, correction factor of 9.5dB should be added to the test data.

TEST CONFIGURATION



TEST PROCEDURE

Please refer to CENELEC EN 55032 section C4.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Note:

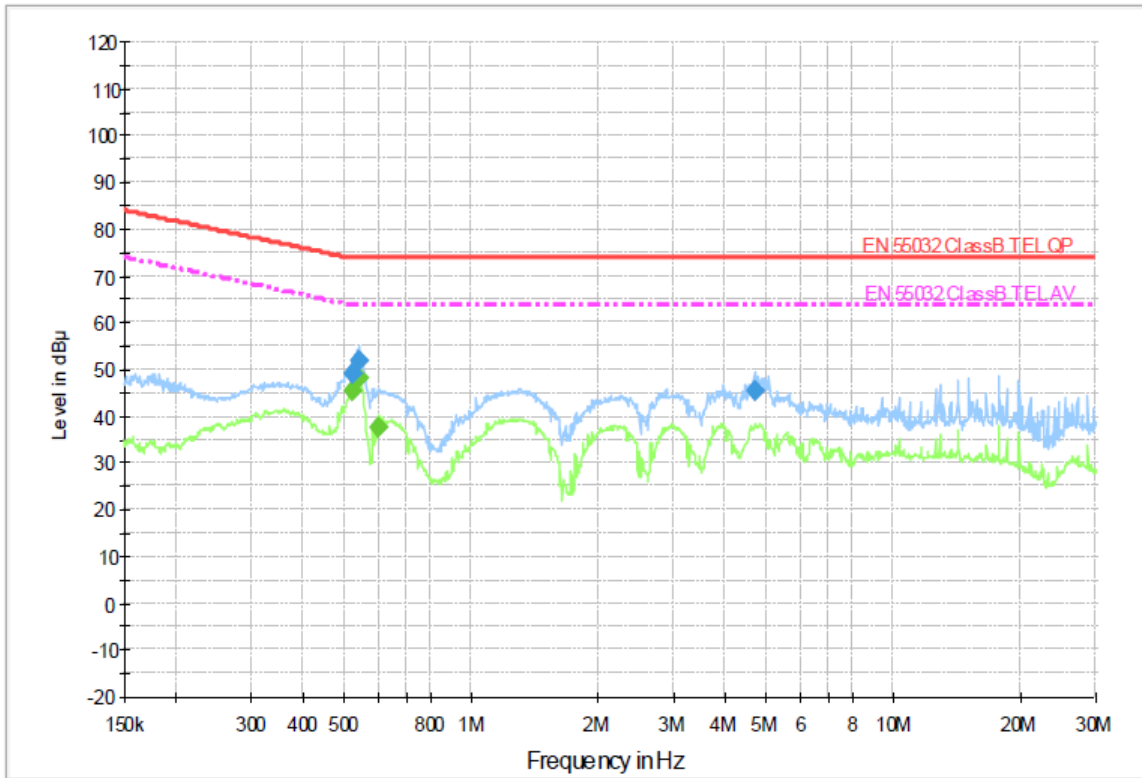
Factor = Insertion loss of LISN + Cable Loss

Limit = Limit stated in standard

Margin = Limit (dBuV) – Result (dBuV)



Test Mode	1
Polarization	Lan



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519130	48.9	1000.00	9.000	On	N	9.4	25.1	74.0	
0.540270	51.9	1000.00	9.000	On	N	9.4	22.1	74.0	
4.664640	45.5	1000.00	9.000	On	N	9.5	28.5	74.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519130	45.4	1000.00	9.000	On	N	9.4	18.6	64.0	
0.540270	48.1	1000.00	9.000	On	N	9.4	15.9	64.0	
0.601760	37.8	1000.00	9.000	On	N	9.4	26.2	64.0	



3.4. Harmonic Current Emission

LIMIT

EN61000-3-2 Clause 7

➤ **Class A equipment**

Harmonic order n	Maximum permissible harmonic current A
Odd harmonics	
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
$15 \leq n \leq 39$	$0,15 \frac{15}{n}$
Even harmonics	
2	1,08
4	0,43
6	0,30
$8 \leq n \leq 40$	$0,23 \frac{8}{n}$

➤ **Class B equipment**

not exceed the values given in Class A limit multiplied by a factor of 1,5

➤ **Class C equipment**

Active input power >25 W

Harmonic order n	Maximum permissible harmonic current expressed as a percentage of the input current at the fundamental frequency %
2	2
3	$30 \cdot \lambda^*$
5	10
7	7
9	5
$11 \leq n \leq 39$ (odd harmonics only)	3

* λ is the circuit power factor

Active input power ≤ 25 W

Harmonic order n	Maximum permissible harmonic current per watt mA/W	Maximum permissible harmonic current A
3	3,4	2,30
5	1,9	1,14
7	1,0	0,77
9	0,5	0,40
11	0,35	0,33
$13 \leq n \leq 39$ (odd harmonics only)	$\frac{3,85}{n}$	See Table 1

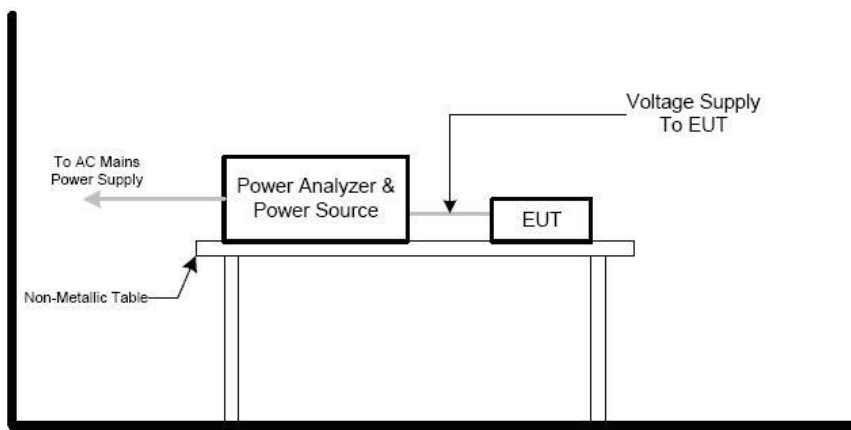


Or the third harmonic current, expressed as a percentage of the fundamental current, shall not exceed 86 % and the fifth harmonic current shall not exceed 61 %. Also, the waveform of the input current shall be such that it reaches the 5 % current threshold before or at 60°, has its peak value before or at 65° and does not fall below the 5 % current threshold before 90°, referenced to any zero crossing of the fundamental supply voltage. The current threshold is 5 % of the highest absolute peak value that occurs in the measurement window, and the phase angle measurements are made on the cycle that includes this absolute peak value.

➤ **Class D equipment**

Harmonic order n	Maximum permissible harmonic current per watt mA/W	Maximum permissible harmonic current A
3	3,4	2,30
5	1,9	1,14
7	1,0	0,77
9	0,5	0,40
11	0,35	0,33
13 ≤ n ≤ 39 (odd harmonics only)	$\frac{3,85}{n}$	See Table 1

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN61000-3-2 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Note: The power of the EUT is less than 75W, So this test item is not applicable.



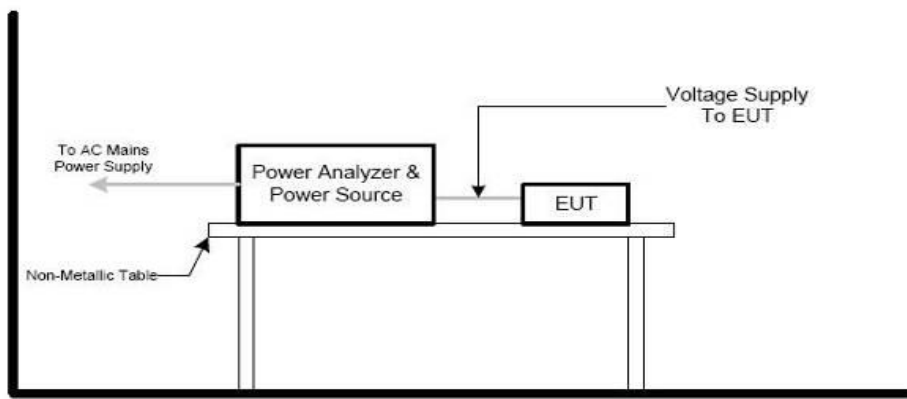
3.5. Voltage Fluctuation and Flicker

LIMIT

Please refer to EN61000-3-3

Tests	Limits		Descriptions
	IEC555-3	IEC/EN 61000-3-3	
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang
dmax	≤ 4%	≤ 4%	Maximum Relative V-change
d (t)	N/A	≤ 3.3% for > 500 ms	Relative V-change characteristic

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN61000-3-3 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3



TEST RESULTS

Test Mode		1		
Voltech IEC61000-3 Windows Software 1.27.13		Test Date: 23 Mar 2020 14:15		
Type of Test: Flickermeter Test - Table (EN61000-3-3:2013) Power Analyzer: Voltech PM6000 SN: 200006700723 Firmware Version: v1.22.07RC6 Channel(s): 1. SN: 090015502565, 28 Adjusted Date: 2 AUG 2013. 2. SN: 090015500533, 28 Adjusted Date: 19 MAR 2010. 3. SN: 090015502345, 28 Adjusted Date: 21 JUN 2012. 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None Shunt(s): 1. SN: 091024303183, 4 Adjusted Date: 8 AUG 2013. 2. SN: 091024302146, 4 Adjusted Date: 22 JUN 2012. 3. SN: 091024302144, 4 Adjusted Date: 22 JUN 2012. 4. SN:None Adjusted Date:None 5. SN:None Adjusted Date:None 6. SN:None Adjusted Date:None AC Source: Mains / Manual Source				
Overall Result:	Notes:			
PASS	Measurement method - Voltage			
	Pst	dc (%)	dmax (%)	Tmax(> 3.3%)(ms)
Limit	1.000	3.300	4.000	500
Reading 1	0.380	0.000	1.715	0



4. EMS IMMUNITY TEST

Performance criteria

General performance criteria

- 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.

Criteria	During test	After test
A	Shall operate as intended. May show degradation of performance (see note 1). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions.
B	May show loss of function (one or more). May show degradation of performance(see note 1). No unintentional transmissions.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions.
C	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:

Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2:

No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

4.1. Electrostatic Discharge

PERFORMANCE CRITERION

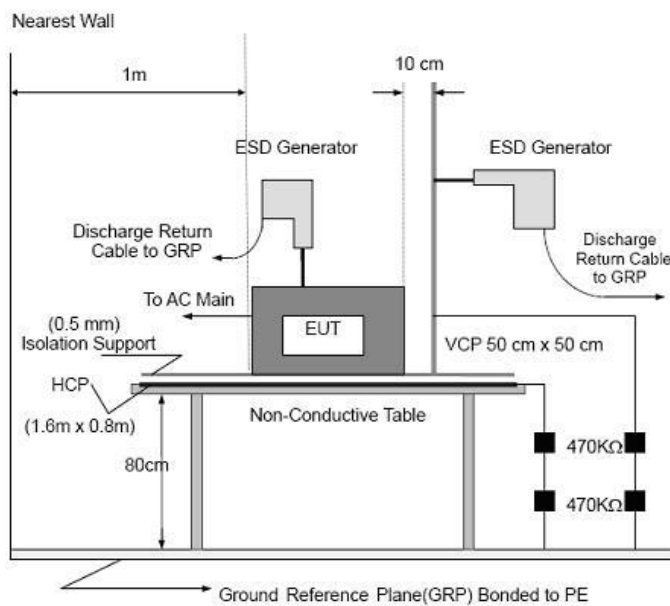
Standard	Criterion
EN 55035: 2017/EN 55024: 2010+A1: 2015	Criteria B

TEST LEVEL

Contact Discharge at $\pm 2\text{kV}$, $\pm 4\text{kV}$

Air Discharge at $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 55035: 2017/EN 55024: 2010+A1: 2015 for the measurement methods.

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 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.

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.

**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.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Test mode		1, 2			
Temperature	25°C	Humidity	55%	Atmospheric pressure	101kPa
Type	Type of discharge	Discharge voltage (kV)	Observations Performance	Criteria Level	Result
Direct	Contact discharge	±2	A	B	Pass
		±4	B	B	
	Air discharge	±2	A	B	
		±4	A	B	
		±8	B	B	
Indirect	HCP	±4	B	B	Pass
	VCP	±4	B	B	

Note: The ancillary equipment's specification for an acceptable level of performance or degradation of performance during and/or after the ESD tests.

4.2. Radio Frequency Electromagnetic Field

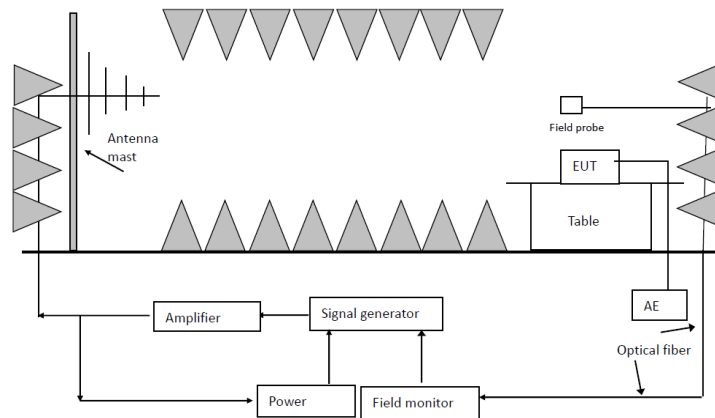
PERFORMANCE CRITERION

Standard	Criterion
EN 55035: 2017/EN 55024: 2010+A1: 2015	Criteria A

TEST LEVEL

Condition of Test	Remark
Fielded strength	3V/m
Radiated signal	Modulated
Scanning frequency	80-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz
Sweep time of radiated	0.0015 Decade/s
Dwell time	1 Sec.

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-4-3 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Test mode:	1, 2		
Antenna Polarity	Observations (Performance Criterion)	Criteria Level	Result
H/V	A	A	Pass

4.3. Fast Transients Common Mode

PERFORMANCE CRITERION

Standard	Criterion
EN 55035: 2017/EN 55024: 2010+A1: 2015	Criteria B

TEST LEVEL

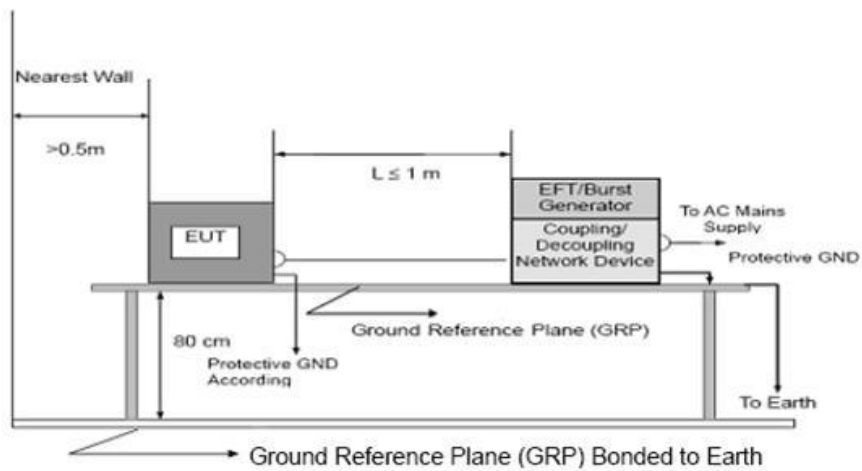
Level: 1KV for AC port, 0.5KV for signal port

Impulse Frequency: 5 kHz;

Tr/Td: 5/50ns;

Burst Duration: 15ms; Burst Period: 3Hz

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-4-4 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Test mode:		1		
Lead under Test	Coupling Direct / Clamp	Observations (Performance Criterion)	Criteria Level	Result
L, N, L+N	Direct	A	B	Pass
Signal Port	Direct	A	B	Pass

4.4. Surge

PERFORMANCE CRITERION

Standard	Criterion
EN 55035: 2017/EN 55024: 2010+A1: 2015	Criteria B

TEST LEVEL

Level: 1kV for line to line, 2kV for line to ground

Voltage Waveform: 1.2/50 us; Current Waveform: 8/20 us

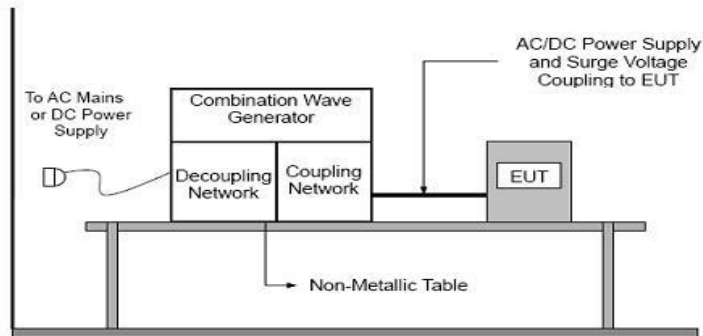
Pulse quantity: 5, interval time: 60 seconds

Phase: 0°, 90°, 180°, 270°

1KV for signal port

Voltage Waveform: 10/700 us

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-4-5 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Test mode:		1		
Lead under Test	Phase	Observations (Performance Criterion)	Criteria Level	Result
L - N	0°/90°/180°/270°	A	B	Pass
Signal Port	/	A	B	Pass

4.5. Radio frequency common mode

PERFORMANCE CRITERION

Standard	Criterion
EN 55035: 2017/EN 55024: 2010+A1: 2015	Criteria A

TEST LEVEL

Test frequency range: 150 kHz~80MHz

Level: 3Vrms

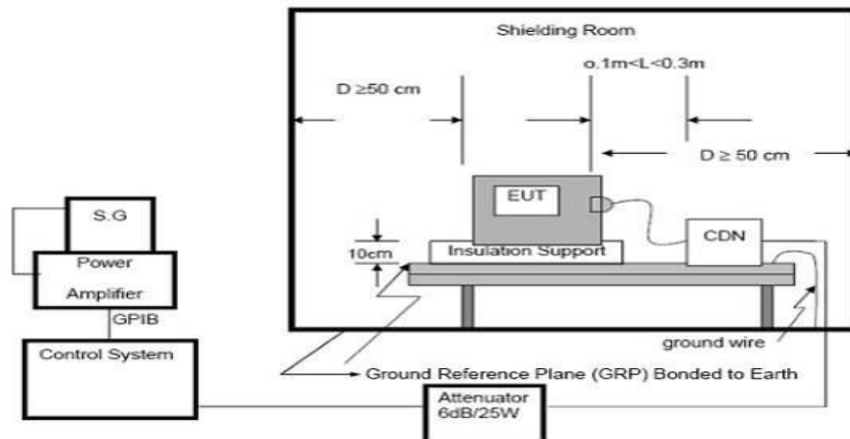
Modulation type: Amplitude Modulation, 80% depth

Modulated signal: 1 kHz sinusoidal audio signal

Frequency increment step: 1%

Dwell time: 3 seconds

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-4-6 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3

TEST RESULTS

Test mode:	1		
Injected Position	Observations (Performance Criterion)	Criteria Level	Result
AC Mains	A	A	Pass
Signal Port	A	A	Pass



4.6. Voltage dips and interruptions

PERFORMANCE CRITERION

Standard	Criterion
EN 55035: 2017/EN 55024: 2010+A1: 2015	B (For 0% Voltage Dips) C (For 70% Voltage Dips) C (For 0% Voltage Interruptions)

TEST LEVEL

0% of VT (Supply Voltage) for 0.5 period

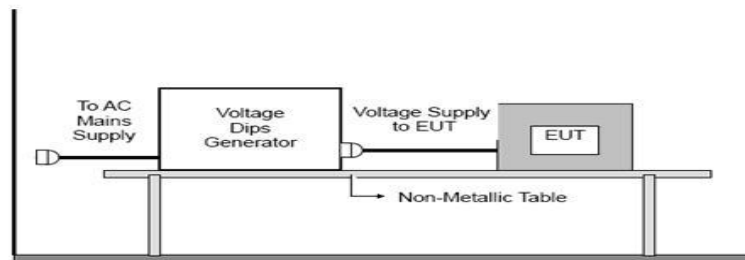
0% of VT (Supply Voltage) for 1 period

70% of VT (Supply Voltage) for 25 period

0% of VT (Supply Voltage) for 250 period

Dip quantity: 3, interval time: 10 seconds

TEST CONFIGURATION



TEST PROCEDURE

Please refer to EN 61000-4-11 for the measurement methods.

TEST MODE

Please refer to the Clause 2.3

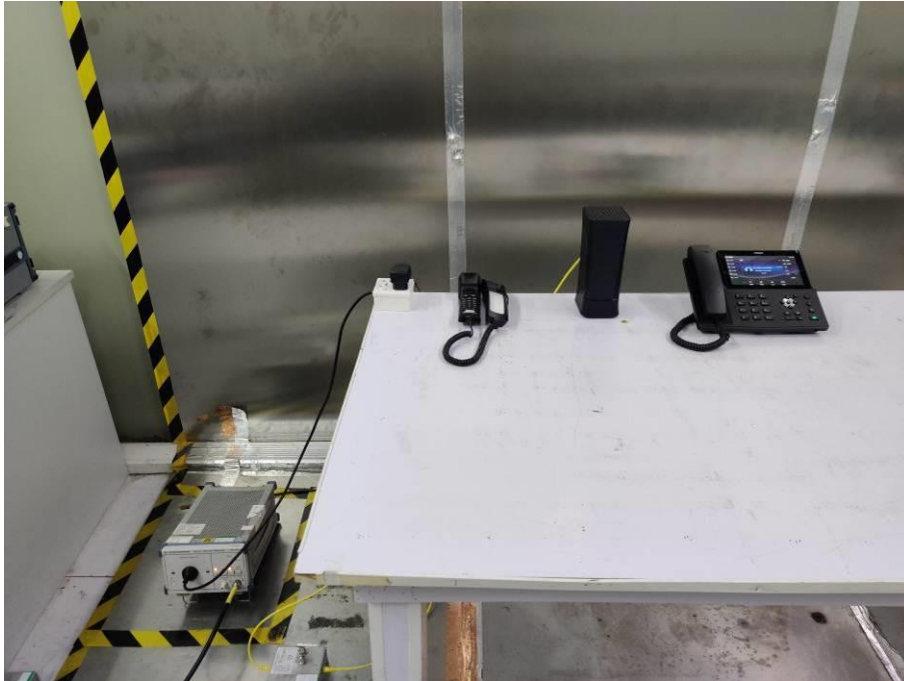
TEST RESULTS

Test mode:		1			
Test Voltage %	Duration periods	Phase angle	Observations (Performance Criterion)	Criteria Level	Result
0	0.5	0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°	A	B	Pass
0	1		A	B	Pass
70	25		A	C	Pass
0	250		C	C	Pass

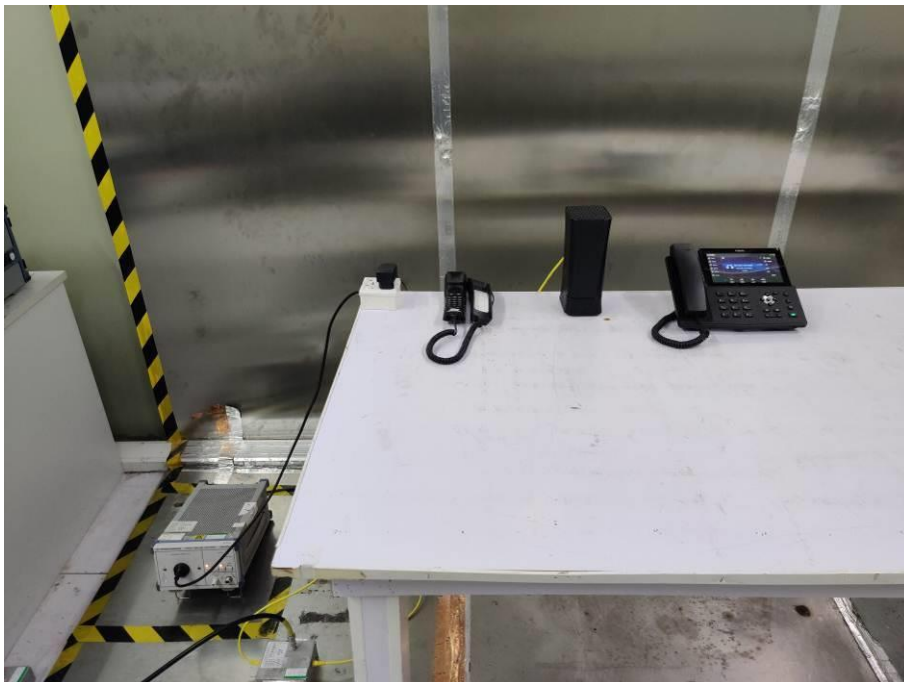
Remark: During the test voltage interruption process, the EUT automatically shuts down and cannot be automatically restored, and can work normally after restarting.

5. EUT TEST PHOTOS

Conducted Emission (AC Mains) for Test mode 1



Conducted Emission (Signal Mains) for Test mode 1



Radiated Measurement (30MHz~1000MHz) for Test mode 1



Radiated Measurement (30MHz~1000MHz) for Test mode 2



Harmonic Current Emission/ Voltage Fluctuations & Flicker for Test mode 1



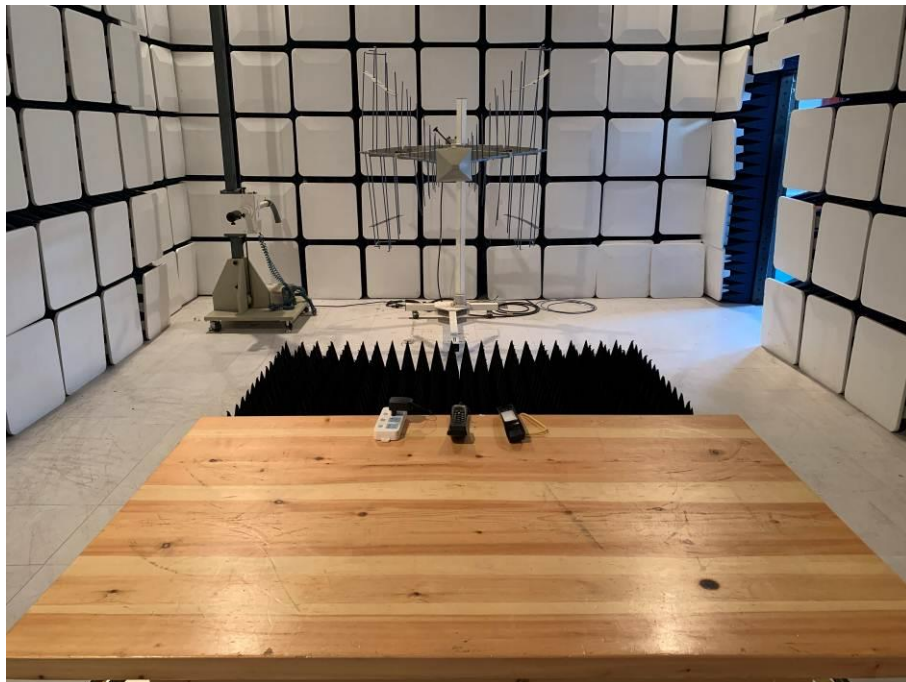
Electrostatic Discharge for Test mode 1



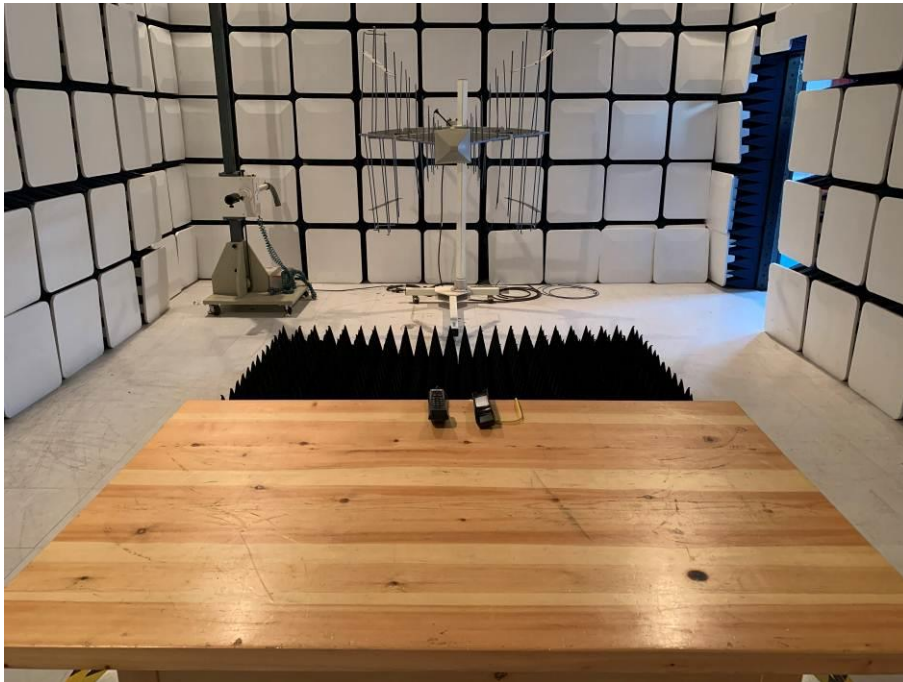
Electrostatic Discharge for Test mode 2



RF electromagnetic field for Test mode 1



RF electromagnetic field for Test mode 2



Electric Fast Transients(AC Mains) for Test mode 1



Electric Fast Transients(Signal Mains) for Test mode 1



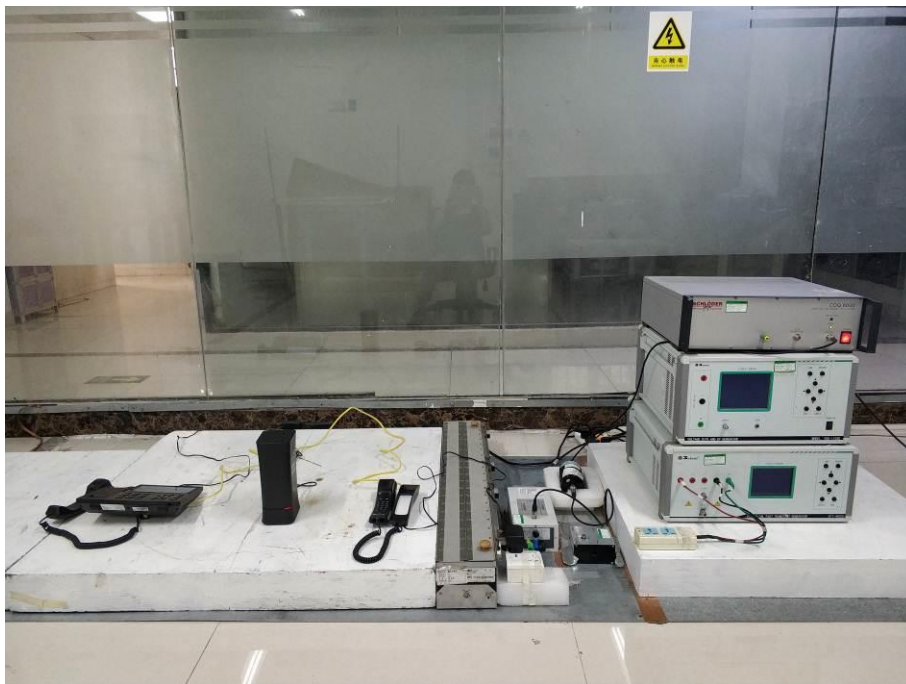
Surges (AC Mains) for Test mode 1



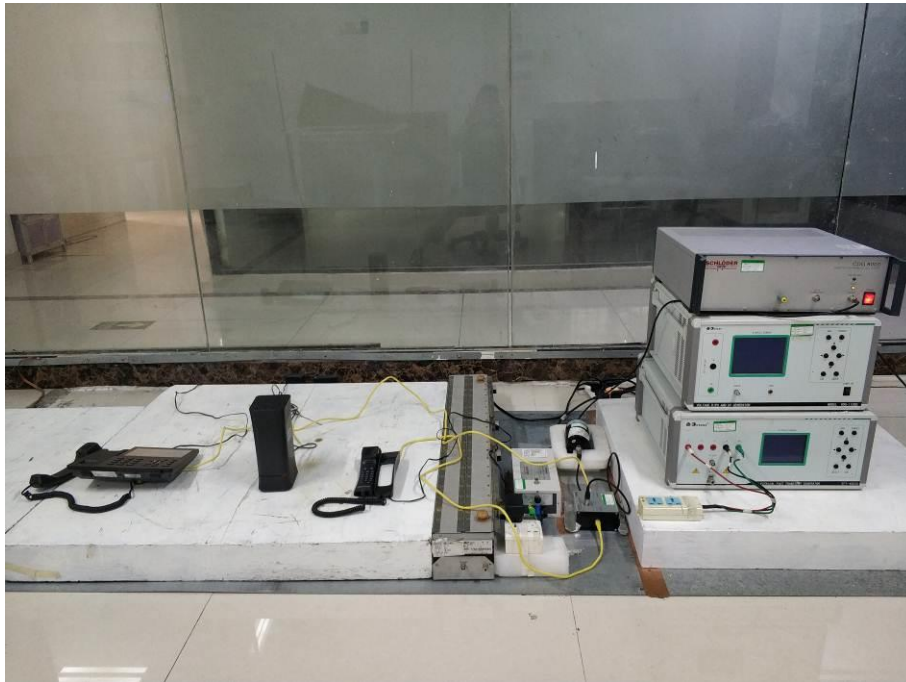
Surges (Signal Mains) for Test mode 1



Injected Current (AC Mains) for Test mode 1



Injected Current (Signal Mains) for Test mode 1



Volt. Interruptions/Volt. Dips for Test mode 1



6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL






External Photographs

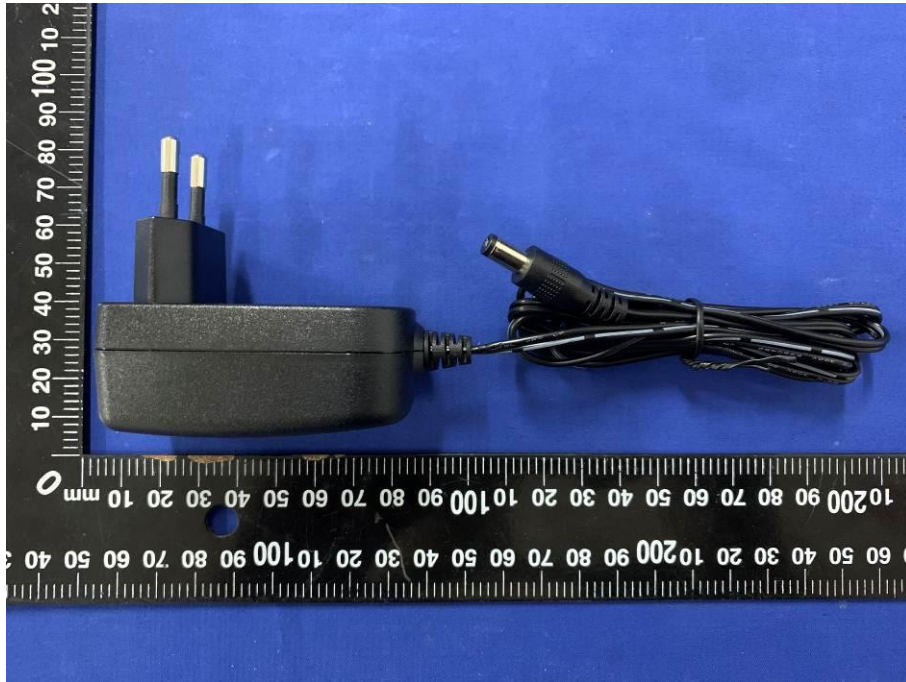


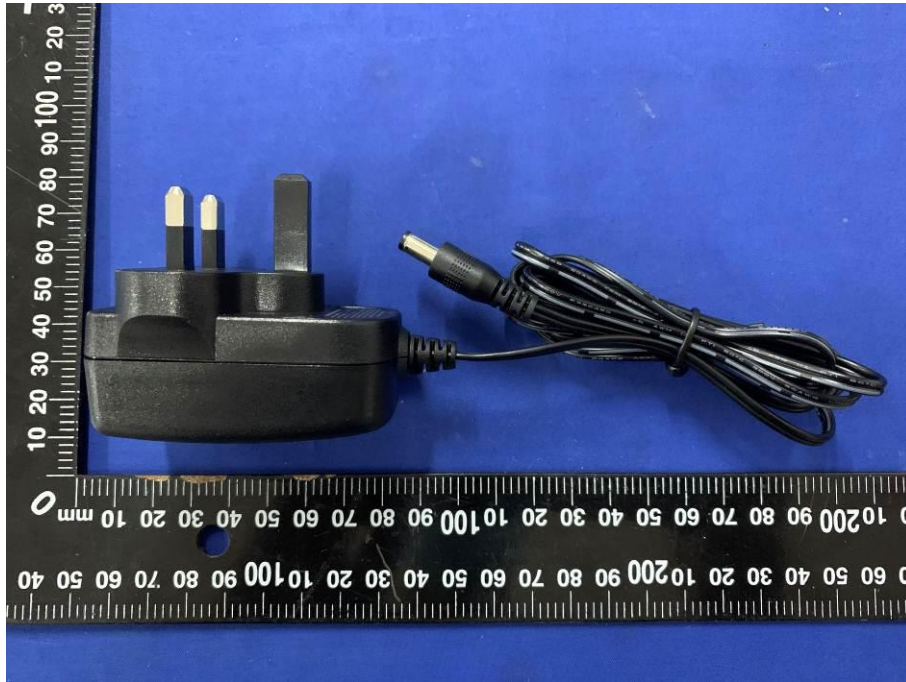




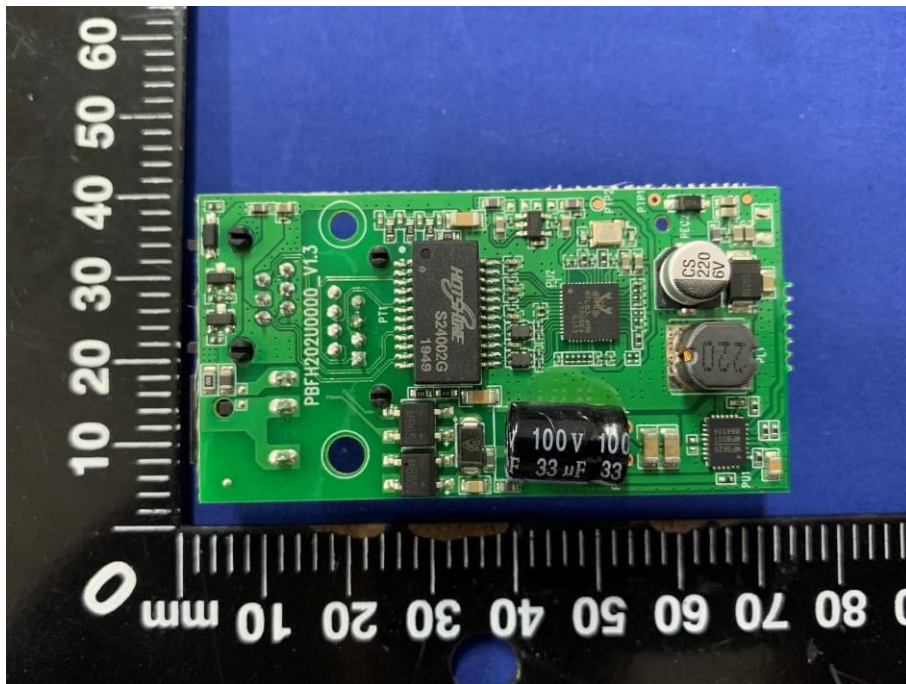
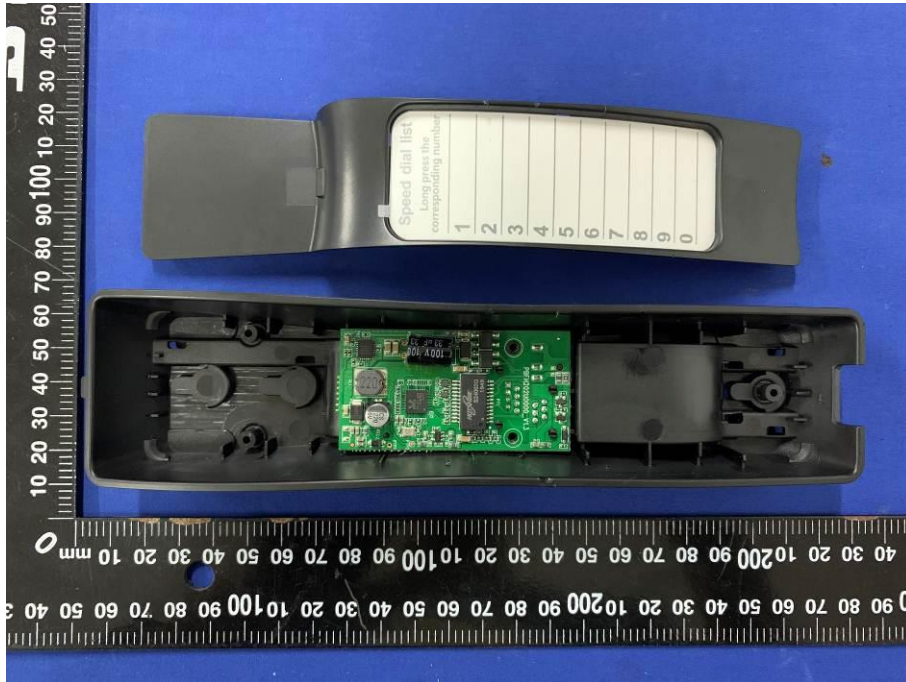


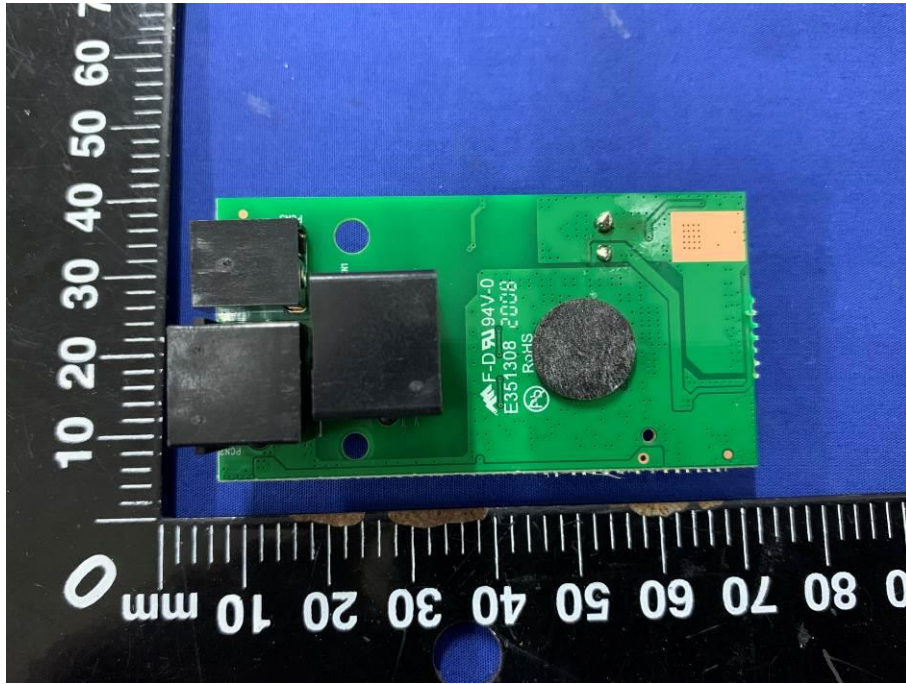
	Model:XT-07P	
		
Input:5V  2A or PoE 48V		
Rev:A		
Made in China		
Designed By XonTel, State of Kuwait		

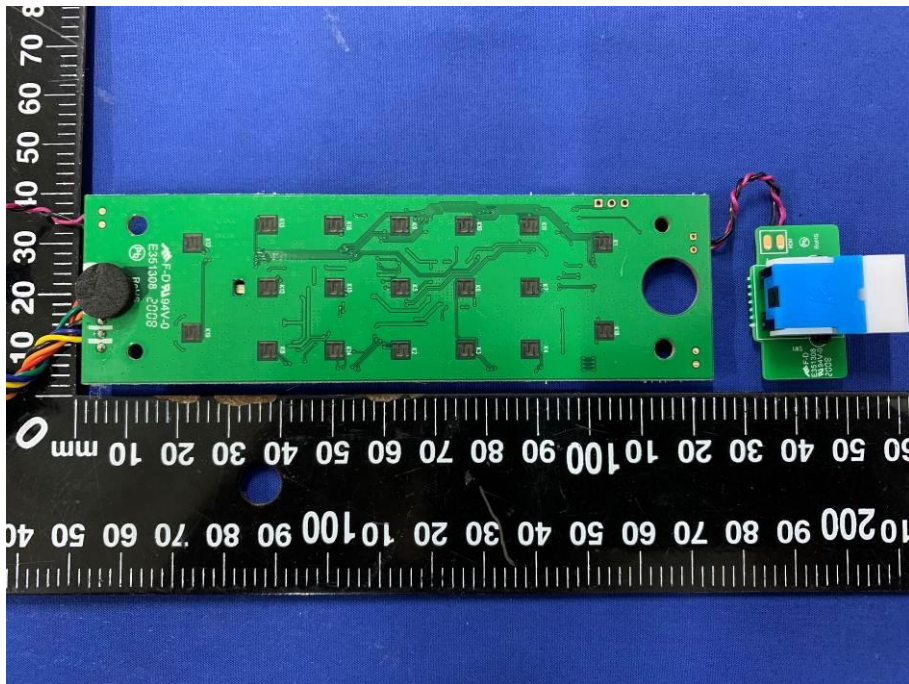
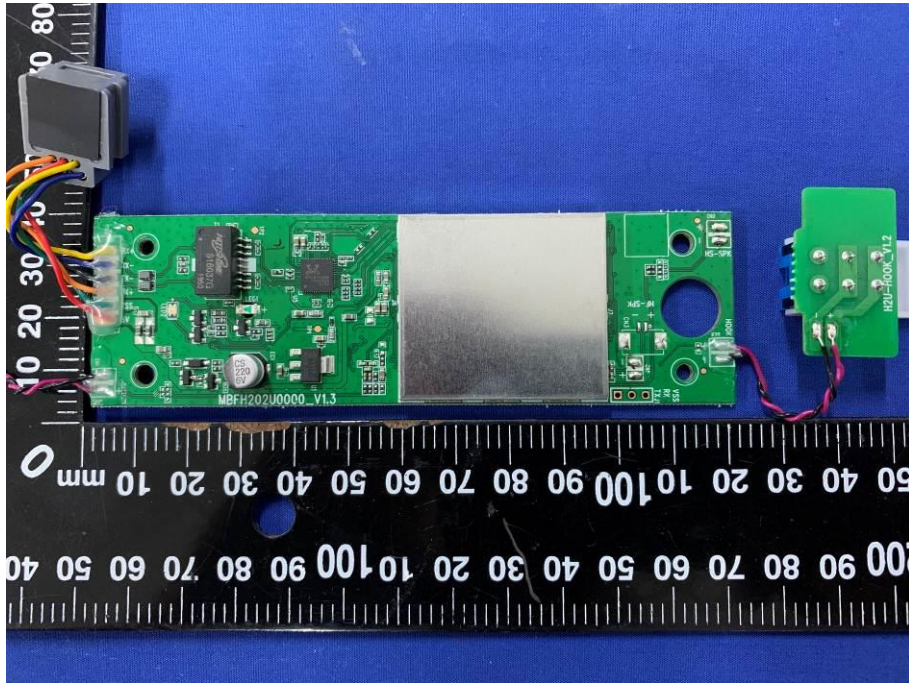




Internal Photographs







*****THE END*****