



**CTS (NINGBO) TESTING SERVICE TECHNOLOGY
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

EMC TEST REPORT

TEST REPORT NUMBER : CTS181219010-E



CTS (Ningbo) Testing Service Technology Co., Ltd.

Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China



TEST REPORT EN 55032:2015 Electromagnetic compatibility of multimedia equipment - Emission Requirements EN 55035:2017 Electromagnetic compatibility of multimedia equipment - Immunity requirements	
Report Reference No.	CTS181219010-E
Date of issue	21 December 2018
Testing Laboratory Name	CTS (Ningbo) Testing Service Technology Co., Ltd.
Address	GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	
Address	
Test specification:	
Standard	EN 55032:2015, EN 55035:2017
Test Report Form No.	CTSEMC-1.0
TRF Originator	CTS (Ningbo) Testing Service Technology Co., Ltd.
Master TRF	Dated 2009-01
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Test item description.	3 in 1 Charging Cable
Trade Mark	/
Manufacturer	/
Model/Type reference	S1122
Ratings	DC 5V
Result	PASSED

Compiled by:

Kate zhang / File administrators

Supervised by:

Duke yang / Technique principal

Approved by:

Vincent yao / Manager



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CTS (Ningbo) Testing Service Technology Co., Ltd.

Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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EMC -- TEST REPORT

Test Report No. : CTS181219010-E	21 December 2018 Date of issue
----------------------------------	-----------------------------------

Type / Model.....	S1122
EUT.....	3 in 1 Charging Cable
Applicant.....	
Address.....	
Telephone.....	
Fax.....	
Contact.....	
Manufacturer..... /	
Address..... /	
Telephone..... /	
Fax..... /	
Contact..... /	
Factory..... /	
Address..... /	
Telephone..... /	
Fax..... /	
Contact..... /	

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.

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Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China
Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406
Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

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1 TEST STANDARDS

The tests were performed according to following standards:

EN 55032:2015 Electromagnetic compatibility of multimedia equipment - Emission Requirements.

EN 55035:2017 Electromagnetic compatibility of multimedia equipment - Immunity requirements.

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	19 December 2018
Testing commenced on	19~21 December 2018
Testing concluded on	21 December 2018

2.2 FINAL ASSESSMENT

The EMC requirements pertaining to the technical standards and tested operation modes are

☒ - fulfilled.

☐ - **not** fulfilled.

The equipment under test

☒ - fulfils the EMC requirements cited on page 1.

☐ - **does not** fulfil the EMC requirements cited on page 1.

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3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage: ☒ DC 5V
☐ Other (Specified blank below)

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

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

☒ –Normal

Operating Mode: Normal

Emissions tests.....: According to EN 55032, searching for the highest disturbance.

Immunity tests: According to EN 55035, searching for the highest susceptibility.

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3.4 EUT configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

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

Not applicable

3.5 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 level defined by its manufacturer or the requestor of the test, or agreed between the manufacturer and the purchaser of the product.

3.6 Definition related to the performance level

- ☒ based on the used product standard
- ☐ based on the declaration of the manufacturer, requestor or purchaser

Criterion A:

Definition: normal performance within limits specified by the manufacturer, requestor or purchaser:

Criterion B:

Definition: temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention:

Criterion C:

Definition: temporary loss of function or degradation of performance, the correction of which requires operator intervention:

Criterion D:

Definition: loss of function or degradation of performance, which is not recoverable, owing to damage to hardware or software, or loss of data:

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, China

Tel: +86-20-85543113 (32 lines)

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4.2 Environmental conditions

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

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.3 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.4 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 CTS 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.

4.5 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

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

4.6 Test Description

4.6.1 Description of Standards and Results

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN 55032:2015	Class B	N/A
Conducted disturbance at telecommunication port	EN 55032:2015	Class B	N/A
Radiated disturbance	EN 55032:2015	Class B	PASS
Harmonic current emissions	EN 61000-3-2:2014	Class D	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2008	-----	N/A
IMMUNITY (EN 55035:2017)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2: 2008	B	PASS
Radio-frequency, Continuous radiated disturbance	IEC 61000-4-3:2006 +A1:2007+A2:2010	A	PASS
Electrical fast transient (EFT)	IEC 61000-4-4:2012	B	N/A
Surge (Input a.c. power ports)	IEC 61000-4-5:2014	B	N/A
Surge (Telecommunication ports)		B	N/A
Radio-frequency, Continuous conducted disturbance	IEC 61000-4-6:2013	A	N/A
Power frequency magnetic field	IEC 61000-4-8: 2009	A	PASS
Voltage dips, >95% reduction	IEC 61000-4-11: 2004	B	N/A
Voltage dips, 30% reduction		B	N/A
Voltage interruptions		C	N/A
Remark: The EUT is power by DC source. N/A is an abbreviation for Not Applicable.			

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Complaint line: +86-20-85533471

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5 TEST CONDITIONS AND RESULTS

5.1 Radiated disturbance (electric field)

For test instruments and accessories used see section 6 part 6.1.

5.1.1 Description of the test location

Test location : Semi-Anechoic chamber

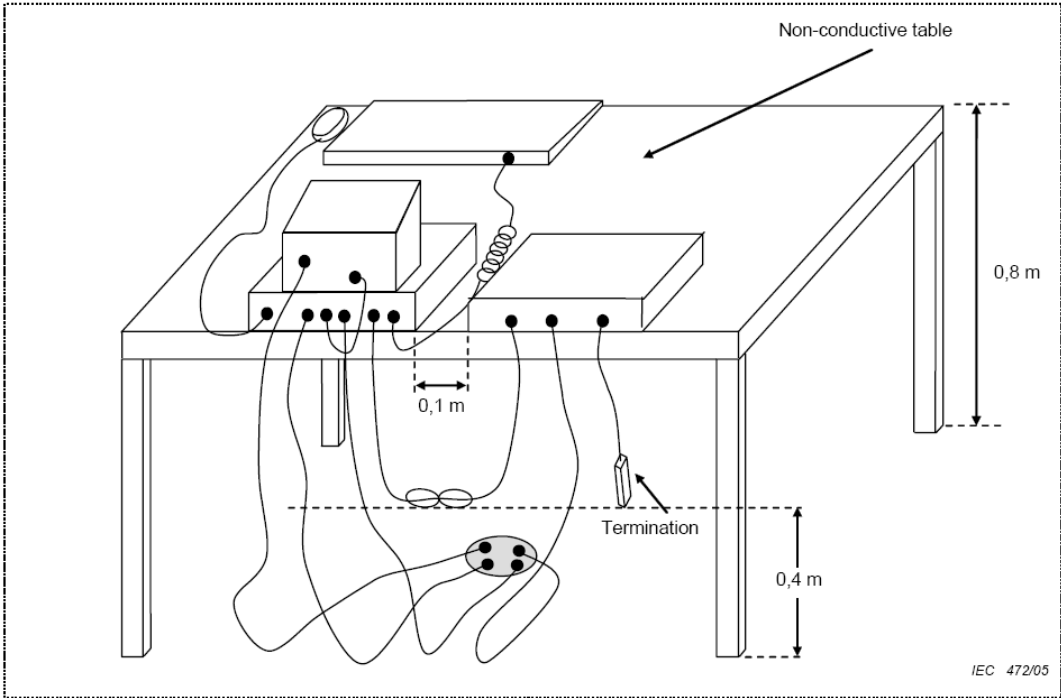
Test disturbance: 3 Meter

5.1.2 Description of the test set-up

5.1.2.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.1.2.2 Block Diagram of Test Setup



5.1.3 Limits of disturbance (Class B)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBµV/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

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5.1.4 Test result

The requirements are	Fulfilled
Band width	120kHz
Frequency range	30 MHz - 1000 MHz
Min. limit margin	>5.28 dB at 30 - 1000 MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

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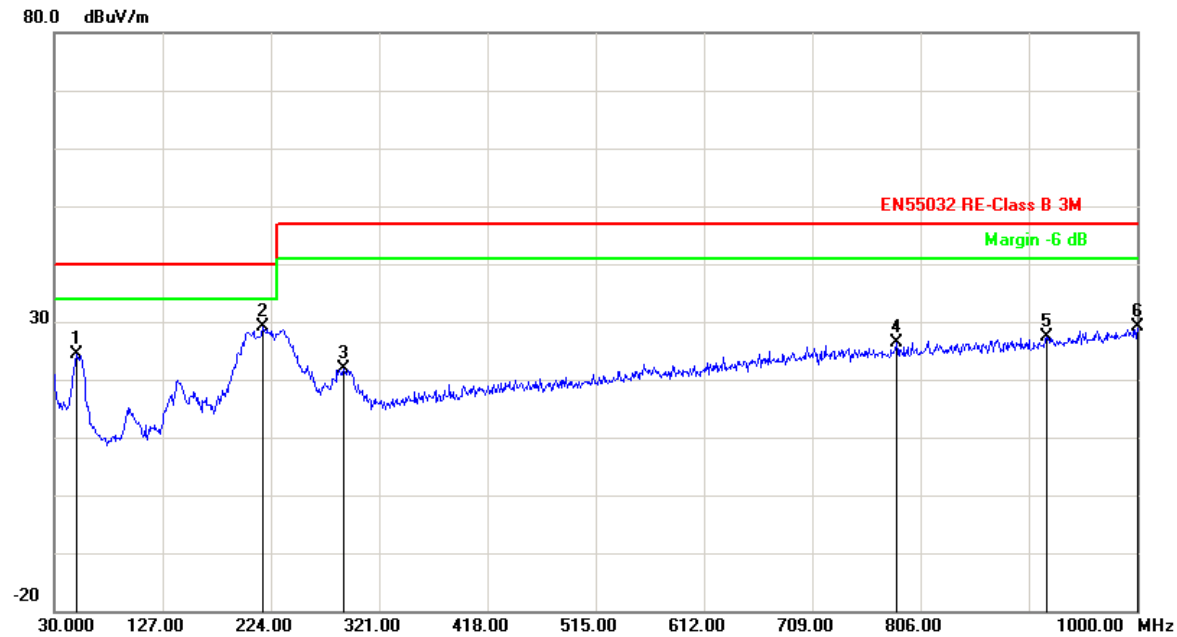
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5.1.5 Test protocol

Test point:	Horizontal	Result:	<input checked="" type="checkbox"/> - passed
Operation mode	Normal		<input type="checkbox"/> - not passed
Remarks:			
EUT	3 in 1 Charging Cable		
Operating Condition	DC 5V		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Jared		
MODEL NO.	S1122		



No.	Frequency (MHz)	Factor (dB)	Reading (dB μ V/m)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	50.3700	-19.87	44.30	24.43	40.00	-15.57	QP
2	217.2100	-15.74	44.78	29.04	40.00	-10.96	QP
3	288.9900	-12.53	34.37	21.84	47.00	-25.16	QP
4	784.6600	-2.40	28.85	26.45	47.00	-20.55	QP
5	918.5200	-0.78	28.14	27.36	47.00	-19.64	QP
6	1000.0000	1.04	28.02	29.06	47.00	-17.94	QP

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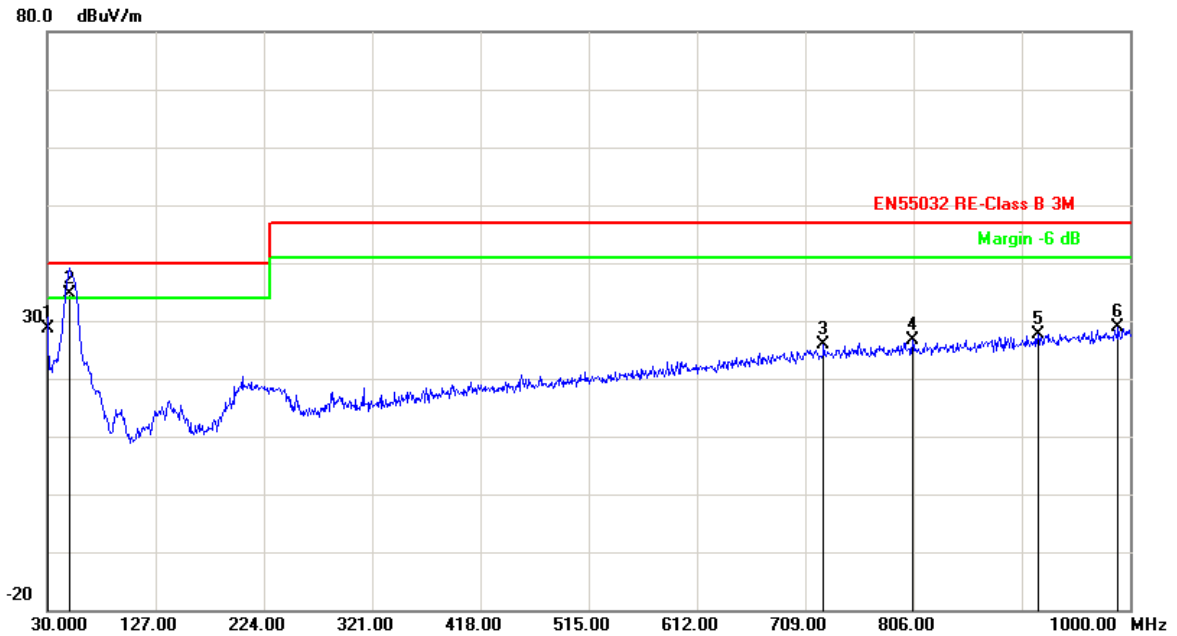
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Test point:	Vertical	Result:	<input checked="" type="checkbox"/> - passed
Operation mode	Normal		<input type="checkbox"/> - not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBμV/m)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.0000	-10.67	39.42	28.75	40.00	-11.25	QP
2	50.3700	-19.87	54.59	34.72	40.00	-5.28	QP
3	725.4900	-3.08	28.89	25.81	47.00	-21.19	QP
4	805.0300	-2.20	28.72	26.52	47.00	-20.48	QP
5	917.5500	-0.80	28.38	27.58	47.00	-19.42	QP
6	989.3300	0.80	28.04	28.84	47.00	-18.16	QP

Note:Level=Reading+Factor. Margin= Limit-Level

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5.2 Electrostatic discharge

For test instruments and accessories used see section 6 part 6.3.

5.2.1 Description of the test location

Test location :	Test location no. 2
Power supply:	DC 5V
Test condition:	Ambient Temperature: 24°C, Humidity:56%
Date of test :	19~21 December 2018
Operator :	Jared

5.2.2 Severity of levels electrostatic discharge

5.2.2.1 Severity level: Contact discharge at $\pm 4\text{KV}$ air discharge at $\pm 8\text{KV}$

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)
1	2	2
2	4	4
3	6	8
4	8	15
X	Special	Special

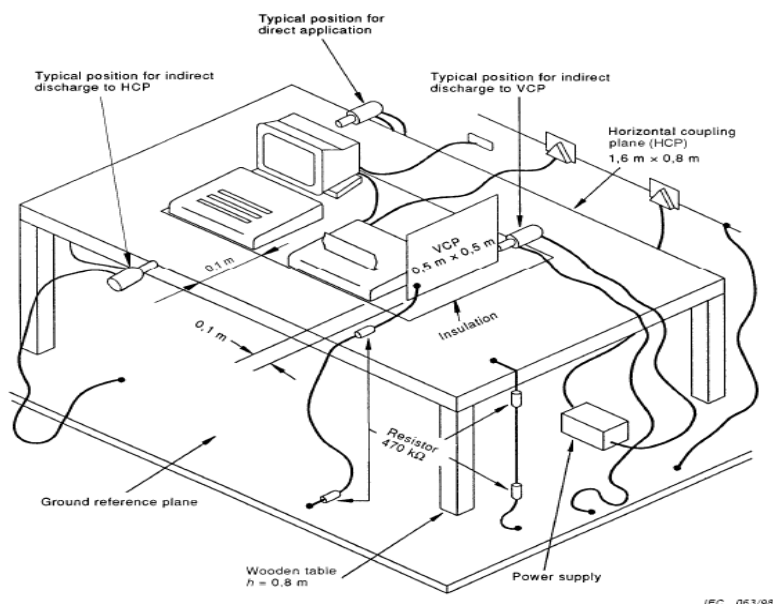
5.2.2.2 Performance criterion: B

5.2.3 Description of the test set-up

5.2.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.2.3.2 Block Diagram of Test Setup



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Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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5.2.4 Test specification:

Contact discharge voltage:	<input checked="" type="checkbox"/> 2 kV	<input checked="" type="checkbox"/> 4 kV
Air discharge voltage:	<input checked="" type="checkbox"/> 2 kV	<input checked="" type="checkbox"/> 4 kV <input checked="" type="checkbox"/> 8 kV
Discharge impedance:	<input checked="" type="checkbox"/> 330 Ω / 150 pF	
Discharge factor:	<input checked="" type="checkbox"/> ≥ 1 sec.	
Number of discharges:	<input checked="" type="checkbox"/> ≥ 10	
Type of discharge:	Direct discharge	<input checked="" type="checkbox"/> Air discharge
		<input checked="" type="checkbox"/> Contact discharge
	Indirect discharge	<input checked="" type="checkbox"/> Contact discharge
Polarity:	<input checked="" type="checkbox"/> Positive	<input checked="" type="checkbox"/> Negative
Discharge location:	<input checked="" type="checkbox"/> see photo documentation of the test set-up	
	<input checked="" type="checkbox"/> all external locations accessible by hand	
	<input checked="" type="checkbox"/> horizontal plate (HCP)	
	<input checked="" type="checkbox"/> vertical coupling plate (VCP)	

5.2.5 Test resultThe requirements are **Fulfilled**Performance Criterion: **B****Remarks:** During the test no deviation was detected to the selected operation mode(s).

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Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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5.3 Radiated, radio-frequency, electromagnetic field

For test instruments and accessories used see section 6 part 6.4.

5.3.1 Description of the test location

Test location :	GTEM chamber
Power supply:	DC 5V
Test condition:	Ambient Temperature: 24℃, Humidity:56%
Date of test :	19~21 December 2018
Operator :	Jared

5.3.2 Severity levels of radiated, Radio-frequency, electromagnetic field

5.3.2.1 Severity level: 3V/m

Level	Field strenght(V/m)
1	1
2	3
3	10
X	Special

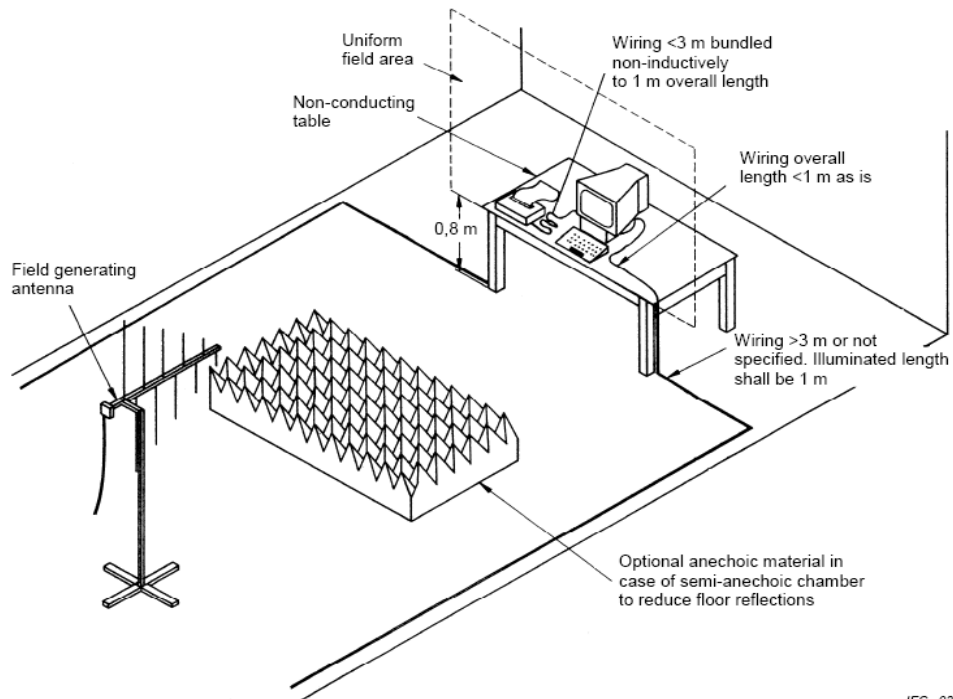
5.3.2.2 Performance criterion: A

5.3.3 Description of the test set-up

5.3.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.3.3.2 Block Diagram of Test Setup



IEC 034/06

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5.3.4 Test specification:

Frequency range:	■ 80 MHz to 1000 MHz
Field strength:	■ 3 V/m
EUT - antenna separation:	■ 3 m
Modulation:	■ AM: 80 % ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	■ horizontal ■ vertical

Frequency range:	■ 1800 MHz to 5000 MHz
Field strength:	■ 3 V/m
EUT - antenna separation:	■ 3 m
Modulation:	■ AM: 80 % ■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	■ horizontal ■ vertical

5.3.5 Test resultThe requirements are **Fulfilled**Performance Criterion: **A****Remarks:** During the test no deviation was detected to the selected operation mode(s).

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5.4 Power frequency magnetic field

For test instruments and accessories used see section 6 part 6.8.

5.4.1 Description of the test location

Test location :	Test location no. 2
Power supply:	DC 5V
Test condition:	Ambient Temperature: 24℃, Humidity:56%
Date of test :	19~21 December 2018
Operator :	Jared

5.4.2 Severity levels of magnetic field immunity

5.4.2.1 Severity Level: 1A/m

Level	Magnetic Field Strength (A/m)
1	1
2	3
3	10
4	30
5	100
X	Special

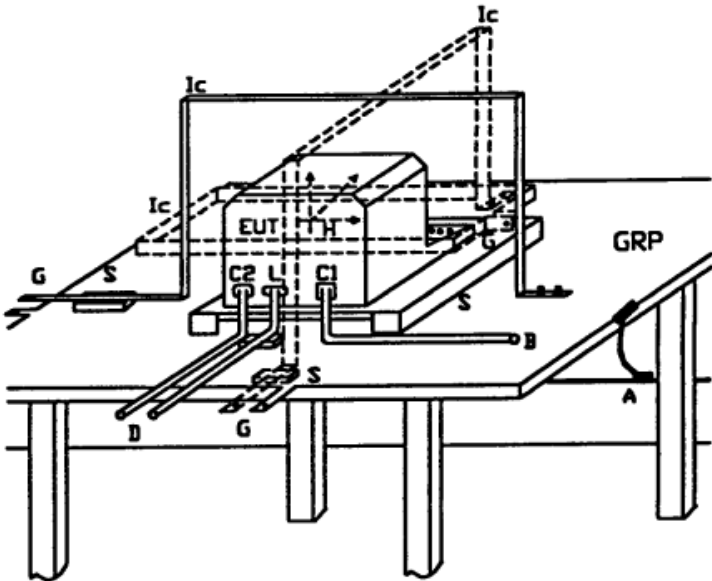
5.4.2.2 Performance Criterion: A

5.4.3 Description of the test set-up

5.4.3.1 Operating Condition

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.4.3.2 Block Diagram of Test Setup



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5.4.4 Test specification:

Test frequency:	■ 50 Hz		
Continuous field:	■ 1A/m		
Duration (Continuous field):	■ 60 s each Axis		
Short duration (1-3s):	■ 3s		
Axis:	■ x-axis	■ y-axis	■ z-axis

5.4.5 Test result

The requirements are **Fulfilled** Performance Criterion: **A**

Remarks: During the test no deviation was detected to the selected operation mode(s).

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6 USED TEST EQUIPMENT

6.1

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2018/03/20
2	EMI Test Receiver	ROHDE & SCHWARZ	ESVS 10	842885/001	2018/10/23
3	Log per Antenna	ETS	3142C	00060447	2018/03/20
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2018/03/20
5	Pre-Amplifier	EMC	EMC330	980113	2018/03/20
6	Pre-Amplifier	EMC	EMC012645	980114	2018/03/20
7	EMI Test Software	Farad	EZ-EMC	N/A	N/A

6.2

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2018/10/23
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2018/10/23
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z6	100140	2018/10/23
4	Pulse Limiter	ROHDE & SCHWARZ	ESHS-Z2	100301	2018/10/23
5	EMI Test Software	Farad	EZ-EMC	N/A	N/A

6.3

Electrostatic Discharge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	Schlöder	SESD 230	106003	2018/10/23

6.4

RF Field Strength Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal Generator	ROHDE & SCHWARZ	SMY 01	843215/014	2018/10/23
2	Signal Generator	ROHDE & SCHWARZ	SML03	102986	2018/10/23
3	Amplifier	KALMUS	713FC	7385-1	2018/10/23
4	Power Meter	ROHDE & SCHWARZ	NRVS	842856/049	2018/10/23
5	Field Probe	ETS	HI-6005	00075047	2018/10/23
6	RS Test Software	Farad	EZ-RS	N/A	N/A

6.5

Electrical Fast Transient/Burst					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMC test system Transient-1000	EMC Partner	Transient-1000	HAR1000-78	2018/10/23
2	3-Phase Coupling Network	EMC Partner	CDN1000	CDN1000-08	2018/10/23
3	Coupling Clamp	EMC Partner	SFT 410	0302015	2018/10/23
4	Genecs Software	EMC Partner	N/A	N/A	N/A

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Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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6.6

Surge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMC test system Transient-1000	EMC Partner	Transient-1000	HAR1000-78	2018/10/23
2	3-Phase Coupling Network	EMC Partner	CDN1000	CDN1000-08	2018/10/23
3	Coupling Clamp	EMC Partner	SFT 410	0302015	2018/10/23
4	Genecs Software	EMC Partner	N/A	N/A	N/A

6.7

Conducted Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	RF generator / amplifier	Schlöder	CDG 6000	HU906007	2018/10/23
2	CDN	Schlöder	CDN M3	A3003008	2018/10/23
3	CDN	Schlöde	CDN T2	A3010005	2018/10/23
4	Attenuator	Abschwächer	DC-500MHz	N/A	2018/10/23
5	EM injection clamp	Liithi	EM101	35670	2018/10/23
6	CDG-6000 Software	Schlöder	N/A	N/A	N/A

6.8

Power Frequency Magnetic Field Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator System	EM TEST	EMS61000-8K	409001	2018/10/23

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Fax: +86-20-38780406

Complaint line: +86-20-85533471

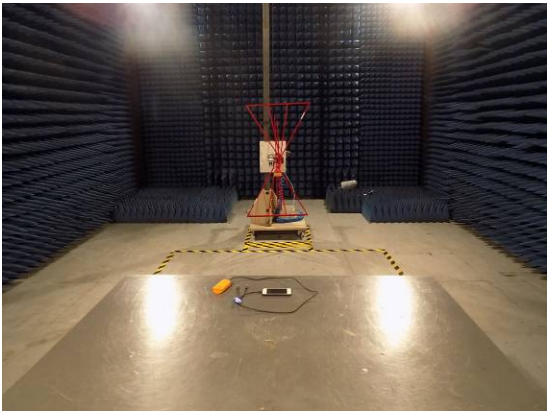
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7 TEST PHOTOGRAPHS

7.1. Photo of radiated emission measurement (R.E. Electric field)



7.2. Photo of electrostatic discharge Immunity measurement (E.S.D.)



7.3. Photo of RF field strength Immunity measurement (R.S.)



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7.4. Photo of PFM field immunity measurement (P.F.M.F.)



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8 External and Internal Photos of the EUT



External view 1



External view 2



External view 3

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External view 4



External view 5



External view 6

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Following Number External view- S1072

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9 Manufacturer/ Approval holder Declaration

The following identical model(s):

S1072

Belong to the tested device:

Product description: **3 in 1 Charging Cable**
Model name: **S1122**

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Complaint line: +86-20-85533471 E-mail: cts@cts-lab.com.cn

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