

TEST REPORT

Report No.: SHE19110027-01BE

Date: 2020-01-07

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Applicant : Shanghai Goodview Electronics Technology Co., Ltd.
Address of Applicant : Room 866, NO.888, West Huanhu 2 Road,
NanhuiXincheng Town, Pudong, Shanghai, China

Product Name : LCD DIGITAL DISPLAY/PCAP Touch All-in-one Monitor
Model No. : TC*****,
(*=A to Z, 0 to 9, blank, just different in appearance color,
sales area customer code, and software version)

Sample No. : E19110027-01#01
E19110027-01#02

FCC ID : 2AVB8TCH

Standards : FCC CFR47 Part 15, Subpart C

Date of Receipt : 2019-11-15
Date of Test : 2019-11-26 ~ 2020-01-06
Date of Issue : 2020-01-07

Remark:

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

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Revision Record			
Version	Date	Revisions	Revised By
1.0	2020-01-07	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	155 Pingbei Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shanghai Goodview Electronics Technology Co., Ltd.
Address	Room 866, NO.888, West Huanhu 2 Road, NanhuiXincheng Town, Pudong, Shanghai, China
Contact Person	Hongyue Xu
Telephone	15618060409
Email	xuhongyue@goodview.com

1.3 Details of EUT

Product Name	LCD DIGITAL DISPLAY/PCAP Touch All-in-one Monitor
Brand Name	GOODVIEW
Model No.	TC****, (*=A to Z, 0 to 9, blank, just different in appearance color, sales area customer code, and software version)
FCC ID	2AVB8TCH
Mode of Operation	Bluetooth BR/EDR
Frequency Range	2400MHz ~ 2483.5MHz
Number of Channels	79 (at intervals of 1 MHz)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Antenna Type	External Antenna
Antenna Gain	3 dBi
Extreme Temperature Range	10°C ~ +40°C
Test Voltage	AC 220V

Note(s):

All applicable tests as described in test case and measurement sections were performed on model TC22H1.

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1.4 Test Methodology

47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.5 Test Verdict

No.	FCC Part No.	ISED Part No.	Description	Test Result	Verdict
1	15.203	RSS-247, 5.4(6)	Antenna Requirement	Clause 4.1.1	PASS
2	15.247(b)	RSS-247, 5.1(4)	Maximum Conducted Output Power	Clause 4.1.2	PASS
3	15.247(a)	RSS-247, 5.1(1)	20dB Bandwidth and 99% Bandwidth	Clause 4.1.3	PASS
4	15.247(d)	RSS-247, 5.5	Conducted Spurious Emission & Authorized-band band-edge	Clause 4.1.4	PASS
5	15.247(d), 15.205, 15.209	RSS-247, 5.5	Spurious Emission	Clause 4.1.5	PASS
6	15.247(d), 15.205, 15.209	RSS-247, 5.5	Band Edge (Restricted-band band-edge)	Clause 4.1.6	PASS
7	15.247(a)	RSS-247 5.1(2)	Hopping Frequency Separation	Clause 4.1.7	PASS
8	15.247(a)	RSS-247 5.1(4)	Number of Hopping Frequency	Clause 4.1.8	PASS
9	15.247(a)	RSS-247 5.1(4)	Time of Occupancy	Clause 4.1.9	PASS
10	15.207(a)	RSS-Gen 8.8	Conducted Emission	Clause 4.2.1	PASS

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2020-07-28
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2020-06-24
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2020-06-19
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2020-06-19
V-network	SCHWARZBECK	NSLK 8127	8127-902	2020-02-20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2020-08-22
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2020-06-06
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2020-06-06
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2021-03-19
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2020-07-26
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2020-06-26
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2020-08-28
Test Software	BL	BL410_E	N/A	N/A

2.3 Measurement Uncertainty

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3 dB
	> 1GHz	± 3 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

Channel	Frequency
The lowest channel(CH0)	2402MHz
The middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz

The basic operation modes are:

- A. On
 - 1. BR/EDR mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - iv. Hopping mode
 - b. Receiving
 - 2. Normal working with Bluetooth on
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	TP00083A	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	/	RF Test Tool

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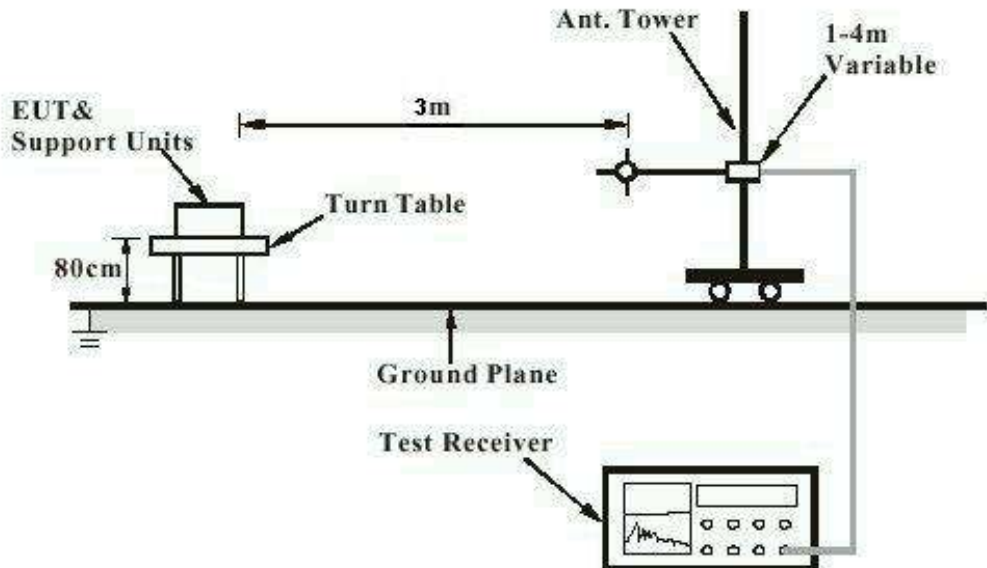
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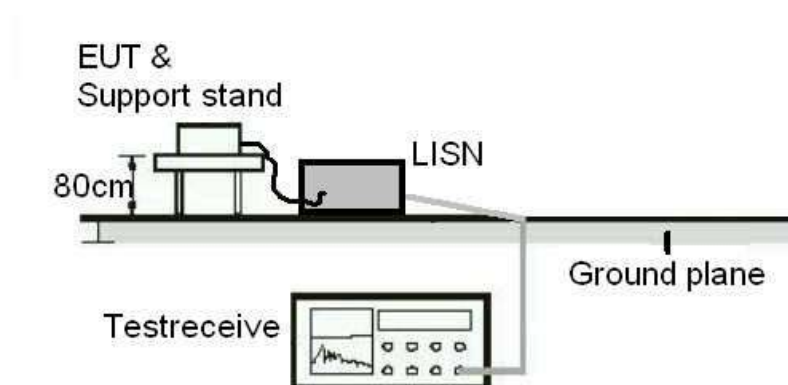
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement



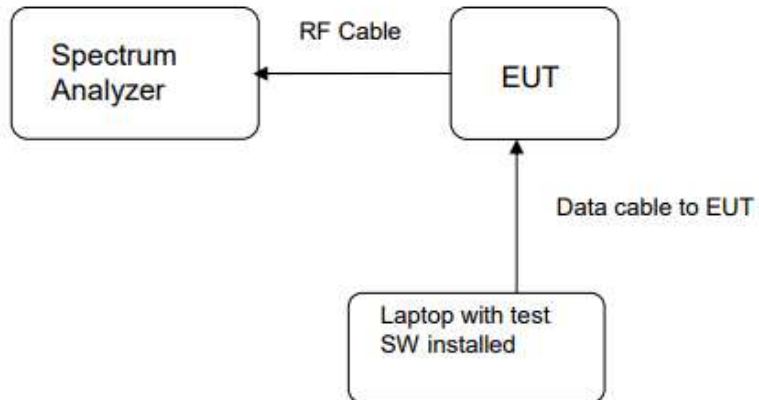
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Diagram of Measurement Equipment Configuration for Transmitter Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: FCC Part 15.247(b)(4), Part 15.203
Requirement	: The use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 3 dBi. The antenna is an external antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Maximum Conducted Output Power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(1)
Requirement : ANSI C63.10-2013
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 1: Maximum Conducted Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(mW)	
GFSK	2402	6.21	4.18	< 0.125
	2441	5.79	3.79	
	2480	5.04	3.19	
$\pi/4$ -DQPSK	2402	2.66	1.85	
	2441	2.53	1.79	
	2480	1.69	1.48	
8-DPSK	2402	2.68	1.85	
	2441	2.56	1.80	
	2480	1.71	1.48	

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Figure 1: Maximum Conducted Output Power, 2402MHz, GFSK



Figure 2: Maximum Conducted Output Power, 2441MHz, GFSK



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Figure 3: Maximum Conducted Output Power, 2480MHz, GFSK



Figure 4: Maximum Conducted Output Power, 2402MHz, $\pi/4$ -QPSK



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Figure 5: Maximum Conducted Output Power, 2441MHz, $\pi/4$ -DQPSK



Figure 6: Maximum Conducted Output Power, 2480MHz, $\pi/4$ -DQPSK



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Figure 7: Maximum Conducted Output Power, 2402MHz, 8-DPSK



Figure 8: Maximum Conducted Output Power, 2441MHz, 8-DPSK



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Figure 9: Maximum Conducted Output Power, 2480MHz, 8-DPSK



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4.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)
Requirement : ANSI C63.10-2013
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 2: 20dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
GFSK	2402	0.823	0.924
	2441	0.825	0.926
	2480	0.825	0.925
8-DPSK	2402	1.165	1.117
	2441	1.163	1.117
	2480	1.163	1.116

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Figure 10: 20dB Bandwidth and 99% Bandwidth, 2402MHz, GFSK



Figure 11: 20dB Bandwidth and 99% Bandwidth, 2441MHz, GFSK



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Figure 12: 20dB Bandwidth and 99% Bandwidth, 2480MHz, GFSK



Figure 13: 20dB Bandwidth and 99% Bandwidth, 2402MHz, 8-DPSK



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Figure 14: 20dB Bandwidth and 99% Bandwidth, 2441MHz, 8-DPSK



Figure 15: 20dB Bandwidth and 99% Bandwidth, 2480MHz, 8-DPSK



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4.1.4 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard : FCC Part 15.247(d)

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High for spurious, Low/High for Band
Edge

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

For details refer to following test plot.

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Figure 16: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, GFSK Carrier Level



Band Edge



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Conducted spurious emissions 30MHz-25GHz



Figure 17: Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, GFSK Carrier Level



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Conducted spurious emissions 30MHz-25GHz



Figure 18: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, GFSK Carrier Level



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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 19: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, 8-DPSK Carrier Level



Band Edge



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Conducted spurious emissions 30MHz-25GHz



Figure 20: Conducted Spurious Emission & Authorized-band band-edge, 2441MHz, 8-DPSK Carrier Level



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Conducted spurious emissions 30MHz-25GHz



Figure 21: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, 8-DPSK Carrier Level



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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 22: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, GFSK Carrier Level



Band Edge(Low)



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Band Edge(High)



Conducted spurious emissions 30MHz-25GHz



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Figure 23: Conducted Spurious Emission & Authorized-band band-edge, Hopping Mode, 8-DPSK Carrier Level



Band Edge(Low)



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Band Edge(High)



Conducted spurious emissions 30MHz-25GHz



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4.1.5 Spurious Emission

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209

Requirement : ANSI C63.10-2013

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High

Operation Mode : A

Ambient temperature : 25°C

Relative humidity : 52%

Notes:

1. Test plots please refer to the annex document "EXHIBIT A of SHE19110027-01BE".
2. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
3. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
4. The EUT is working in the Normal link mode below 1 GHz.

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4.1.6 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.205, 15.209

Requirement : ANSI C63.10-2013

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1

Ambient temperature : 25°C

Relative humidity : 52%

Note:

1. Test plots please refer to the annex document "EXHIBIT A of SHE19110027-01BE".

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4.1.7 Hopping Frequency Separation

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Test Channel : Hopping

Operation Mode : A.1.a.iv

Ambient temperature : 25°C

Relative humidity : 52%

Table 3: Hopping Frequency Separation

Mode	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
GFSK	2441	0.996	≥ 25kHz or two-thirds of 20dB bandwidth
8-DPSK	2441	0.999	

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Figure 24: Hopping Frequency Separation, Hopping Mode, GFSK



Figure 25: Hopping Frequency Separation, Hopping Mode, 8DPSK



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4.1.8 Number of Hopping Frequency

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)(iii)

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Test Channel : Hopping

Operation Mode : A.1.a.iv

Ambient temperature : 25°C

Relative humidity : 52%

Table 4: Number of Hopping Frequency

Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
GFSK	2400 – 2483.5	79	≥15
8-DPSK	2400 – 2483.5	79	≥15

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Figure 26: Number of Hopping Frequency, Hopping Mode, GFSK



Figure 27: Number of Hopping Frequency, Hopping Mode, 8-DPSK



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4.1.9 Time of Occupancy

RESULT:

PASS

Test standard : FCC Part 15.247(a)(1)(iii)

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Test Channel : Middle

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Table 5: Time of Occupancy

Mode	Packet Type	Pulse Time (ms)	Total of Dwell (ms)	Limit (s)
GFSK	DH1	0.388	124.16	0.4
	DH3	1.650	264.00	0.4
	DH5	2.900	309.33	0.4
8-DPSK	DH1	0.391	125.12	0.4
	DH3	1.653	264.48	0.4
	DH5	2.908	310.19	0.4

Note:

For DH1 package type:

Total of Dwell = Pulse Time*(1600/2)/Number of Hopping Frequency*Period

Period = 0.4* Number of Hopping Frequency

For DH3 package type:

Total of Dwell = Pulse Time*(1600/4)/Number of Hopping Frequency*Period

Period = 0.4* Number of Hopping Frequency

For DH5 package type:

Total of Dwell = Pulse Time*(1600/6)/Number of Hopping Frequency*Period

Period = 0.4* Number of Hopping Frequency

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Figure 28: Time of Occupancy, 2441MHz, GFSK DH1



Figure 29: Time of Occupancy, 2441MHz, GFSK DH3



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Figure 30: Time of Occupancy, 2441MHz, GFSK DH5



Figure 31: Time of Occupancy, 2441MHz, 8-DPSK DH1



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Figure 32: Time of Occupancy, 2441MHz, 8-DPSK DH3



Figure 33: Time of Occupancy, 2441MHz, 8-DPSK DH5



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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard : FCC Part 15.207(a)

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Input Voltage : AC 120V, 60Hz; AC 240V, 50Hz

Operation Mode : A.1.a

Earthing : Not Connected

Ambient temperature : 25°C

Relative humidity : 52%

For details refer to following test plot.

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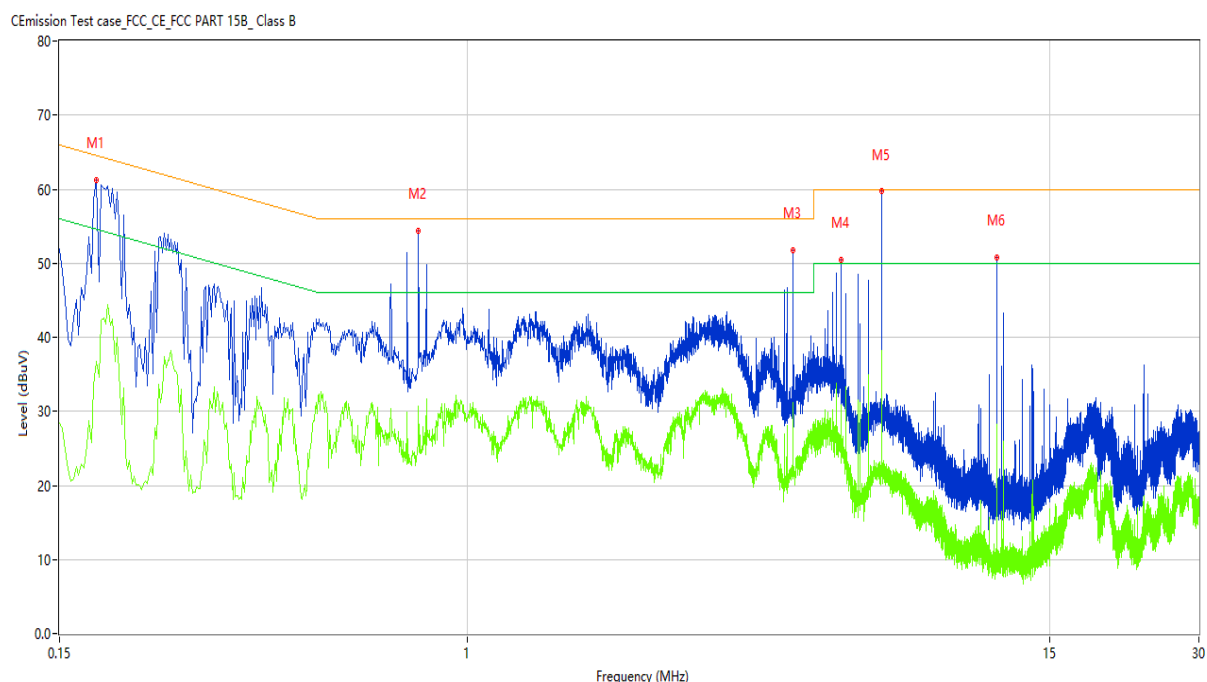
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Note:

The all configurations were tested respectively, but only the worst configuration shown here.

Figure 34: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.178	61.21	10.15	64.58	-3.37	Peak	L	Pass
1*	0.178	53.79	10.15	64.58	-10.79	QP	L	Pass
1**	0.178	36.77	10.15	54.58	-17.81	AV	L	Pass
2	0.796	54.34	10.15	56.00	-1.66	Peak	L	Pass
2*	0.796	40.30	10.15	56.00	-15.70	QP	L	Pass
2**	0.796	30.76	10.15	46.00	-15.24	AV	L	Pass
3	4.550	51.76	10.25	56.00	-4.24	Peak	L	Pass
3*	4.550	37.92	10.25	56.00	-18.08	QP	L	Pass
3**	4.550	31.21	10.25	46.00	-14.79	AV	L	Pass
4	5.680	50.43	10.27	60.00	-9.57	Peak	L	Pass
4*	5.680	42.42	10.27	60.00	-17.58	QP	L	Pass
4**	5.680	30.89	10.27	50.00	-19.11	AV	L	Pass
5	6.872	59.71	10.31	60.00	-0.29	Peak	L	Pass
5*	6.872	45.95	10.31	60.00	-14.05	QP	L	Pass
5**	6.872	38.14	10.31	50.00	-11.86	AV	L	Pass
6	11.720	50.80	10.45	60.00	-9.20	Peak	L	Pass
6*	11.720	40.45	10.45	60.00	-19.55	QP	L	Pass
6**	11.720	28.30	10.45	50.00	-21.70	AV	L	Pass

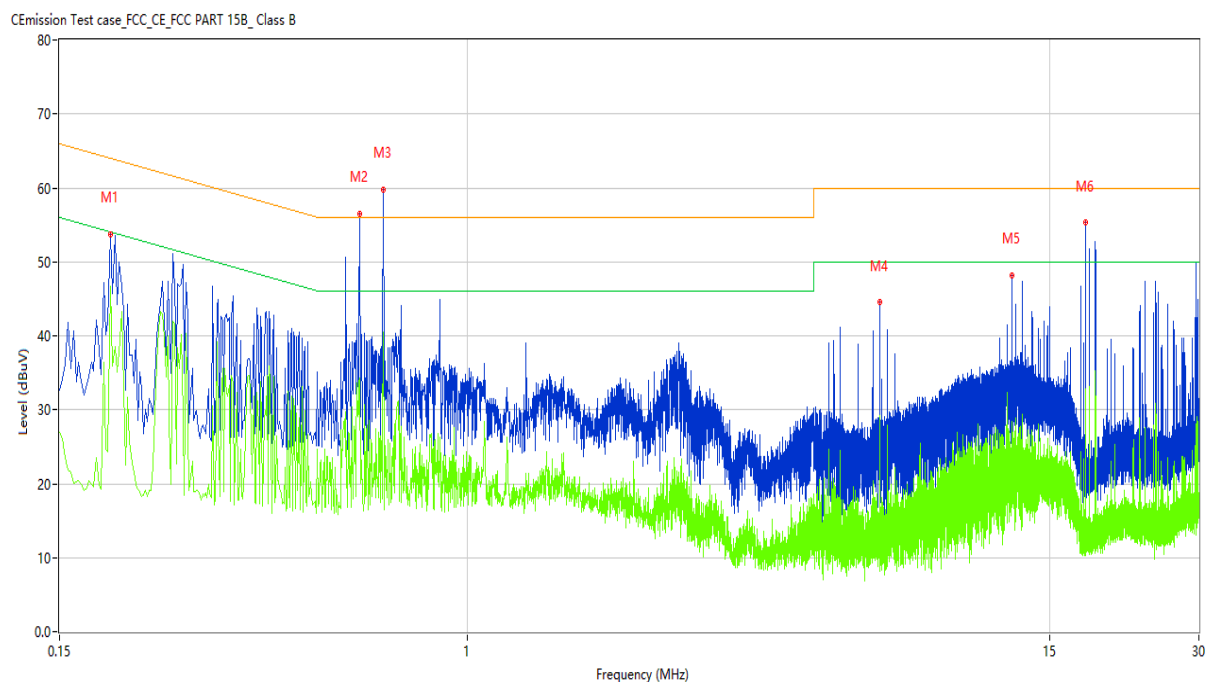
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Figure 35: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.190	53.79	10.15	64.04	-10.25	Peak	N	Pass
1*	0.190	42.63	10.15	64.04	-21.41	QP	N	Pass
1**	0.190	46.68	10.15	54.04	-7.36	AV	N	Pass
2	0.606	56.56	10.15	56.00	0.56	Peak	N	N/A
2*	0.606	47.30	10.15	56.00	-8.70	QP	N	Pass
2**	0.606	34.31	10.15	46.00	-11.69	AV	N	Pass
3	0.676	59.76	10.15	56.00	3.76	Peak	N	N/A
3*	0.676	43.30	10.15	56.00	-12.70	QP	N	Pass
3**	0.676	40.46	10.15	46.00	-5.54	AV	N	Pass
4	6.812	44.63	10.30	60.00	-15.37	Peak	N	Pass
4*	6.812	36.94	10.30	60.00	-23.06	QP	N	Pass
4**	6.812	29.20	10.30	50.00	-20.80	AV	N	Pass
5	12.556	48.14	10.46	60.00	-11.86	Peak	N	Pass
5*	12.556	40.58	10.46	60.00	-19.42	QP	N	Pass
5**	12.556	28.38	10.46	50.00	-21.62	AV	N	Pass
6	17.750	55.41	10.48	60.00	-4.59	Peak	N	Pass
6*	17.750	50.79	10.48	60.00	-9.21	QP	N	Pass
6**	17.750	32.79	10.48	50.00	-17.21	AV	N	Pass

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4 Appendixes

4.1 Photographs of the Sample



Front of the sample



Rear of the sample

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4.2 Set-up for Conducted Emissions



4.3 Set-up for Conducted RF test at Antenna Port



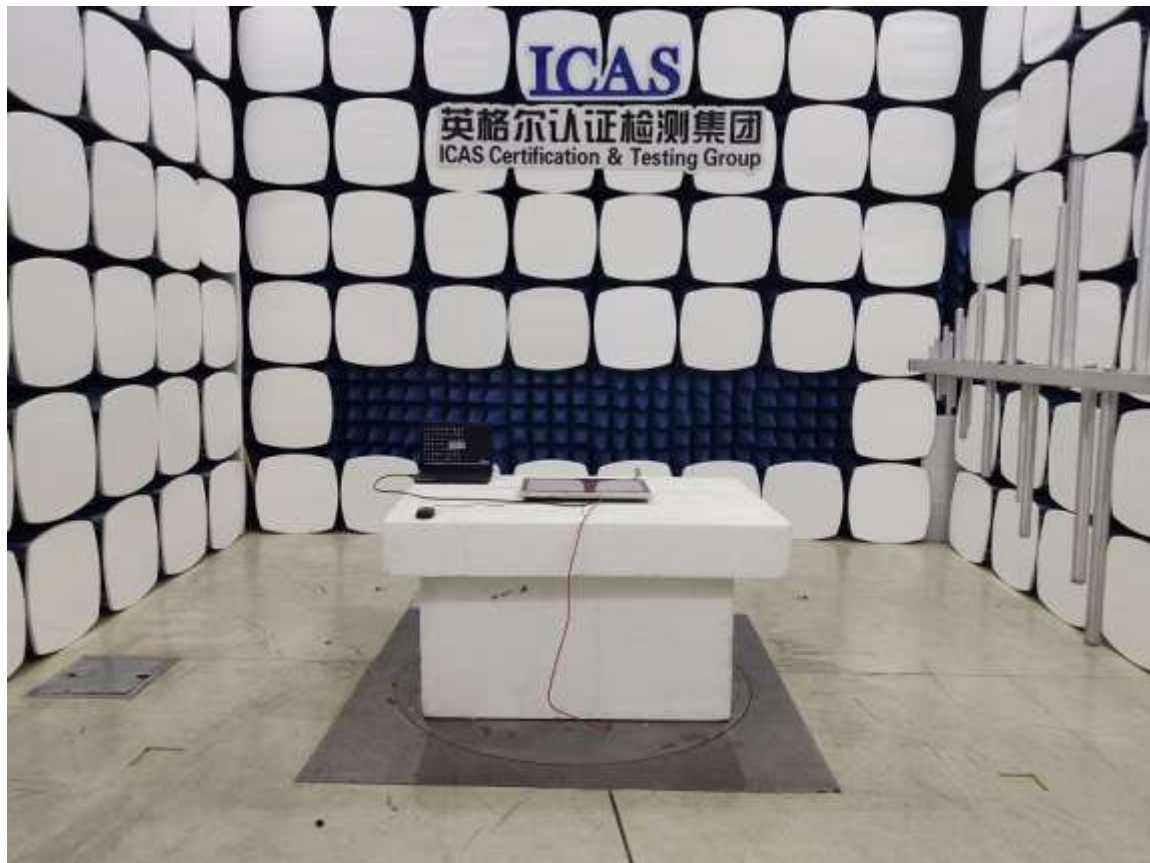
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4.4 Set-up for Spurious Emissions below 1GHz



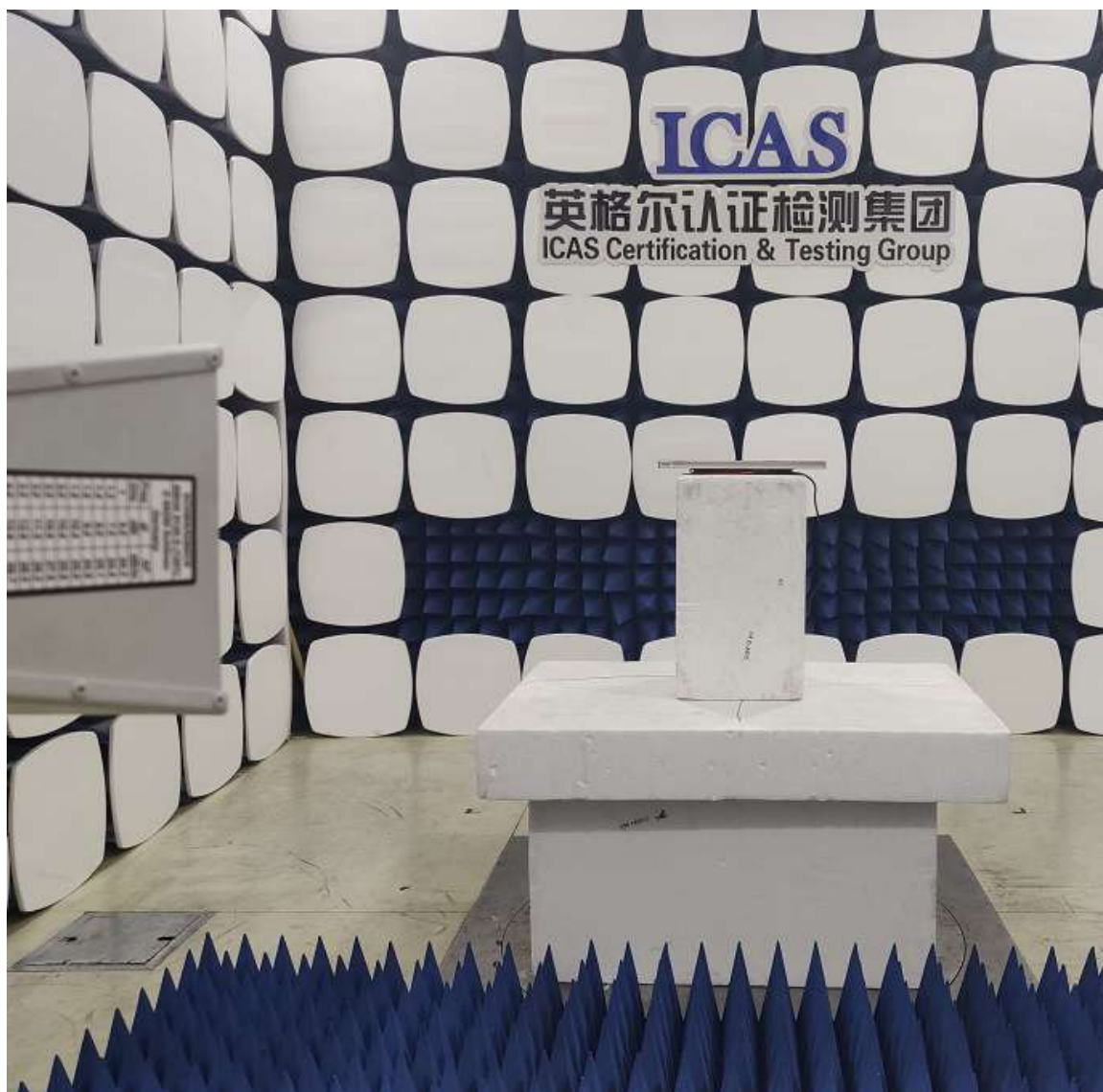
4.5 Set-up for Spurious Emissions above 1GHz

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End of the report