



TEST REPORT

No. I21Z70185-EMC07

for

Samsung Electronics Co., Ltd.

Notebook PC

XE310XDA

with

FCC ID: ZCAXE310XDA

ISED Number: 25314-XE310XDA

Hardware Version: REV1.0

Software Version: Chrome

Issued Date: 2021-08-08

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z70185-EMC07	Rev.0	1 st edition	2021-06-21
I21Z70185-EMC07	Rev.1	Revised the description of key component in section 3.5	2021-08-08

Note: the latest revision of the test report supersedes all previous versions.

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

CTTL (Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2021-05-06

Testing End Date: 2021-06-18

1.5. Signature



Li Yan

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Zhang Xia

Deputy Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Samsung Electronics Co., Ltd.
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City: /
Postal Code: /
Country: /
Contact: Jenni Chun
Email: j1.chun@samsung.com
Telephone: +1-201-937-4203

2.2. Manufacturer Information

Company Name: Samsung Electronics. Co., Ltd.
Address: Samsung R5, Maetan dong 129, Samsung ro
Youngtong gu, Suwon city 443 742, Korea
City: /
Postal Code: /
Country: /
Contact: Sunghoon Cho
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Telephone: +82-10-2722-4159

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Notebook PC
Model name	XE310XDA
FCC ID	ZCAXE310XDA
ISED Number	25314-XE310XDA

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI/SN	HW Version	SW Version
EUT1	2170185UT35a	REV1.0	Chrome
EUT2	2170185UT15a	REV1.0	Chrome

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Travel adapter	/	/
AE2	Travel adapter	/	/
AE3	USB Cable	/	/
AE4	Headset	/	/
AE5	Hard Disk	/	/
AE6	SD card	/	/

AE1

Model	EP-TA845
Manufacturer	DONGYANG E&P Inc
Length of cable	/

AE2

Model	EP-TA845
Manufacturer	SOLUM CO.,LTD
Length of cable	/

Note: The USB cables are shielded.

3.4. General Description

Equipment under Test (EUT) is a model of Notebook PC with integrated antenna.

It consists of normal options: lithium battery and charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

3.5. Key component list

Item	Spec.	Vendor	Vendor P/N
CPU	Jasper lake_QS	Intel	N4500
CPU	Jasper lake_MP	Intel	N4500
WLAN	802.11 ax 2x2	Intel	Harrison Peak. HrP2-AX201
Memory	LPDDR4X 4GB	SEC	K4U6E3S4AA-MGCR
	LPDDR4X 8GB	SEC	K4U6E3S4AA-MGCR
SSD	eMMC 32GB	SEC	KLMBG2JETD-B041003
	eMMC 64GB	SEC	KLMCG4JETD-B041004
LCD	11.6" HD non touch	BOE	NT116WHM-N21
Battery	40.2Wh	SDI	P21GER-A1-S03
		BYD	EB-BW720ABA
DLC	use for 3A	BIEL	GH39-02071A
Antenna	/	AWAN	/
	/	Speed	/

Note: EUT1 and EUT2 correspond to different key component configurations.

3.6. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+ AE1+AE3+AE4+AE5+AE6	EUT1+ Adapter 1
Set.2	EUT2+ AE1+AE3+AE4+AE5+AE6	EUT2+ Adapter 1
Set.3	EUT1+ AE2+AE3+AE4+AE5+AE6	EUT1+ Adapter 2
Set.4	EUT2+ AE2+AE3+AE4+AE5+AE6	EUT2+ Adapter 2

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC 47 CFR Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2019
ICES-003	Information Technology Equipment (including Digital Apparatus)	Issue 7 2020
ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

Note: The test methods have no deviation with standards.

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz—1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	NA	Not applicable
	F	Fail
	BR	Re-use test data from basic model report.

Items	Test Name	Clause in FCC rules	Clause in ISED rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	Section 3	A.1	P	CTTL(Huayuan North Road)
2	Conducted Emission	15.107(a)	Section 3	A.2	P	CTTL(Huayuan North Road)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESCI	100344	R&S	2022-02-23	1 year
2	LISN	ESH3-Z5	825562/028	R&S	2021-09-05	1 year
3	Test Receiver	ESU 26	100235	R&S	2022-02-23	1 year
4	BiLog Antenna	VULB9163	9163-483	Schwarzbeck	2021-08-07	1 year
5	EMI Antenna	3115	6914	R&S	2022-02-23	1 year

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01.00	R&S
Conducted Emission	EMC32 V8.52.0	R&S

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

ISED: ICES-003 Section 3.2.2.

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at distances of 10 meters (for 30MHz-1GHz) and 3 meters (for above 1GHz) is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. The measurement antenna was placed at a distance of 3 /10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT.

For the test setup photographs please see the test setup photos document.

A.1.2 EUT Operating Mode

The system was configured for testing in a typical mode that a customer would normal use.

Cables were attached to each of the available I/O ports. Where applicable, peripherals were attached to the I/O cables. All the external I/O ports were exercised.

During the test, the EUT was charged by a travel adapter; EUT continuously copy data to external (Hard Disk & SD card) storage media; the camera was in video mode; the music was repetitively played through the headset; the WIFI and BT function was on and worked in receiver mode.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V}/\text{m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

Limit (10m) = limit (3m) + 20(log (3/10))

A.1.4 Test Condition

Voltage (V)	Frequency (Hz)
120	60

Frequency range (MHz)	RBW/VBW	Sweep Time (s)	Detector
30-1000	120kHz (IF Bandwidth)	5	Peak/Quasi-peak
Above 1000	1MHz/3MHz	15	Peak, Average

A.1.5 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + G_A + G_{\text{PL}}$$

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.16dB, 1GHz-18GHz: 5.44dB, $k=2$.

Note: Test data in this section has been taken against the FCC 15.109(a) limit as it is the most stringent limit. By complying with more restrictive FCC 15.109 limit compliance with the ICES-003 Issue 7 limit also demonstrated.

Set.1

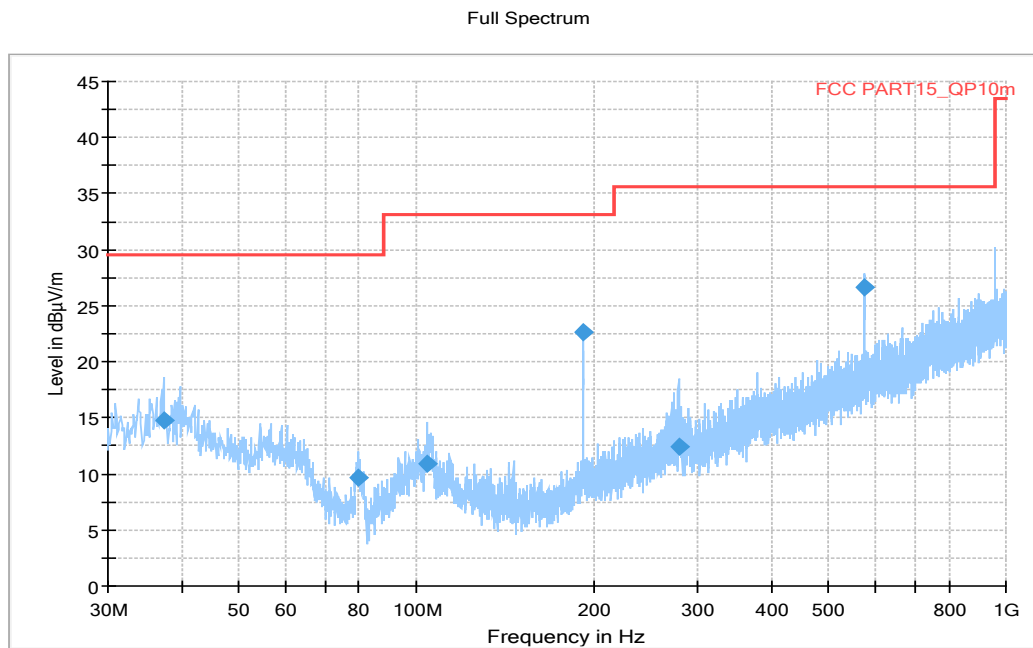


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)
37.27500	14.77	29.50	14.77	1000.0	120.000	103.0	V	63.0
79.56700	9.73	29.50	19.81	1000.0	120.000	200.0	V	23.0
104.5930	10.95	33.10	22.11	1000.0	120.000	336.0	V	300.0
191.5050	22.63	33.10	10.43	1000.0	120.000	108.0	V	176.0
278.4170	12.43	35.60	23.13	1000.0	120.000	121.0	V	120.0
574.4610	26.59	35.60	8.97	1000.0	120.000	223.0	V	165.0

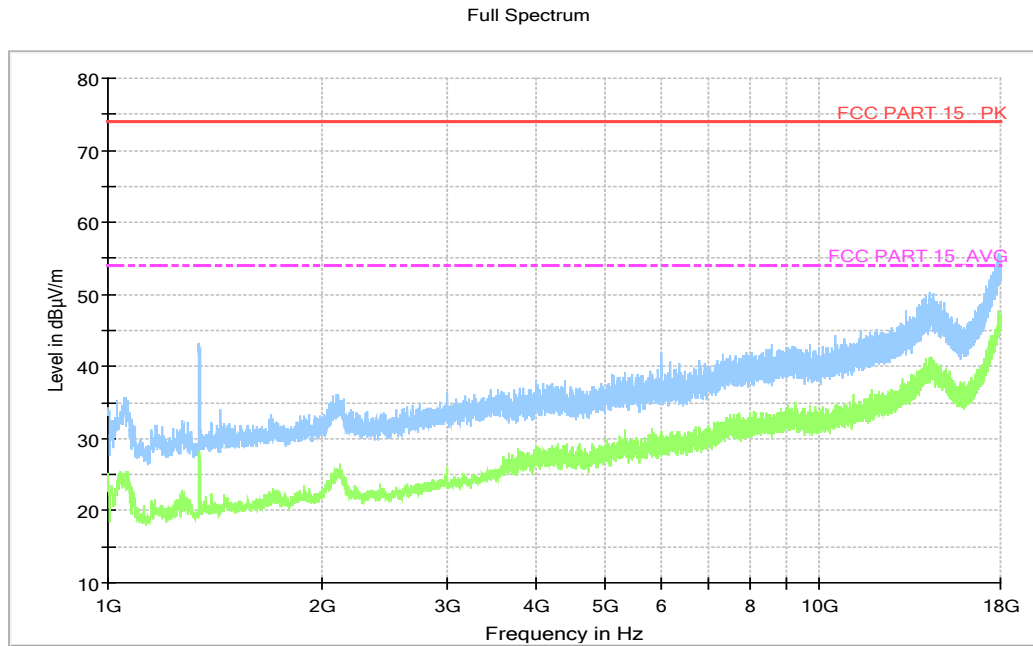


Figure A.2 Radiated Emission from 1GHz to 18GHz

Average detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17945.600	47.3	-28.9	46.7	29.583	54.0	6.7	H
17962.600	47.0	-29.1	46.7	29.401	54.0	7.0	V
17992.633	46.8	-29.1	46.7	29.198	54.0	7.2	V
17972.800	46.8	-29.1	46.7	29.201	54.0	7.2	H
17969.400	46.6	-29.1	46.7	29.001	54.0	7.4	H
17964.867	46.5	-29.1	46.7	28.901	54.0	7.5	H

Peak detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17905.933	55.6	-29.3	46.0	38.972	74.0	18.4	H
17939.367	55.6	-29.4	46.7	38.339	74.0	18.4	V
17986.967	55.5	-29.1	46.7	37.898	74.0	18.5	H
17969.400	55.4	-29.1	46.7	37.801	74.0	18.6	H
17968.833	55.3	-29.1	46.7	37.701	74.0	18.7	V
17989.233	55.2	-29.1	46.7	37.598	74.0	18.8	H

Set.2

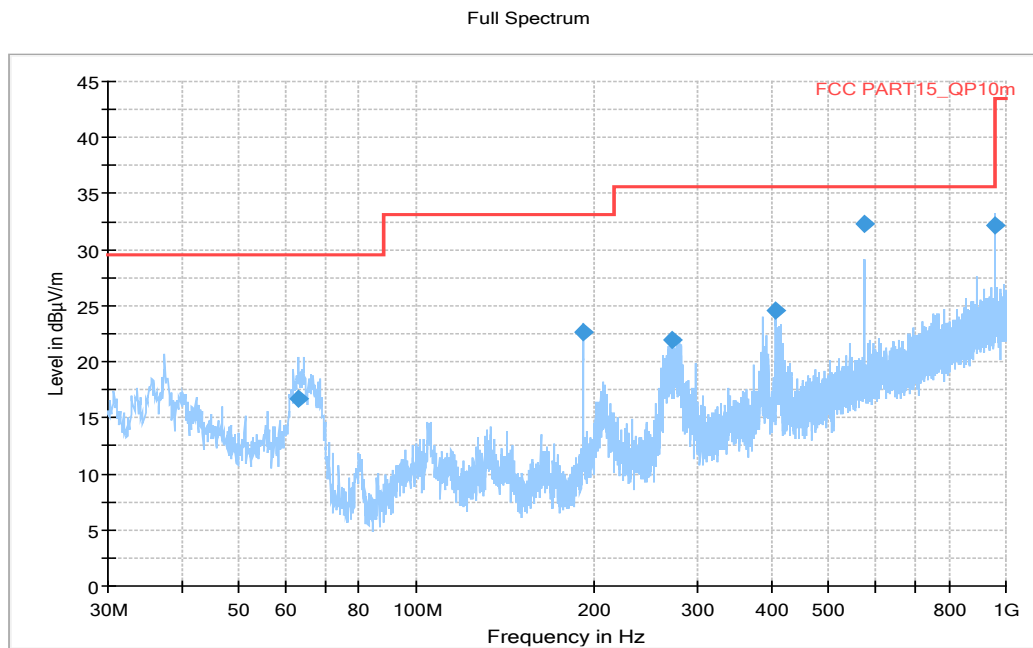


Figure A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)
63.17400	16.68	29.50	12.86	1000.0	120.000	125.0	V	-29.0
191.5050	22.61	33.10	10.45	1000.0	120.000	105.0	V	10.0
270.6570	21.95	35.60	13.61	1000.0	120.000	109.0	V	210.0
407.6210	24.51	35.60	11.05	1000.0	120.000	100.0	V	210.0
574.4610	32.33	35.60	3.23	1000.0	120.000	235.0	V	20.0
961.4910	32.23	43.50	11.29	1000.0	120.000	345.0	V	73.0

Full Spectrum

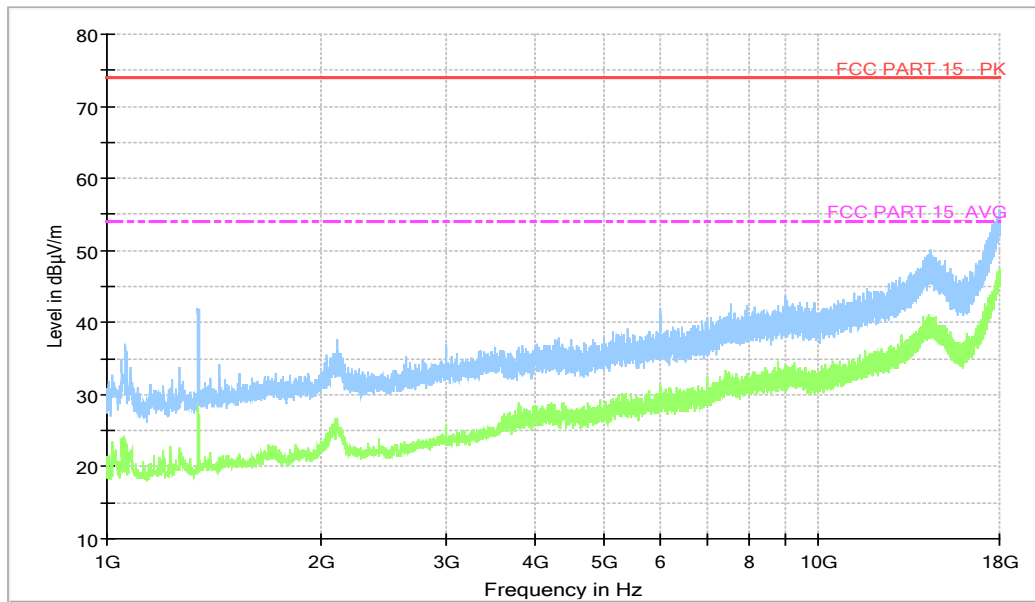


Figure A.4 Radiated Emission from 1GHz to 18GHz

Average detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.467	47.3	-29.1	46.7	29.698	54.0	6.7	H
17954.667	47.0	-28.9	46.7	29.283	54.0	7.0	H
17998.300	46.9	-29.1	46.7	29.298	54.0	7.1	V
17901.967	46.7	-29.3	46.0	30.072	54.0	7.3	V
17930.867	46.7	-29.4	46.7	29.439	54.0	7.3	V
17972.800	46.7	-29.1	46.7	29.101	54.0	7.3	H

Peak detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.467	55.8	-29.1	46.7	38.201	74.0	18.2	H
17977.333	55.6	-29.1	46.7	38.001	74.0	18.4	V
17990.367	55.4	-29.1	46.7	37.798	74.0	18.6	H
17970.533	55.3	-29.1	46.7	37.701	74.0	18.7	H
17976.200	55.3	-29.1	46.7	37.701	74.0	18.7	V
17972.233	55.3	-29.1	46.7	37.701	74.0	18.7	V

Set.3

Full Spectrum

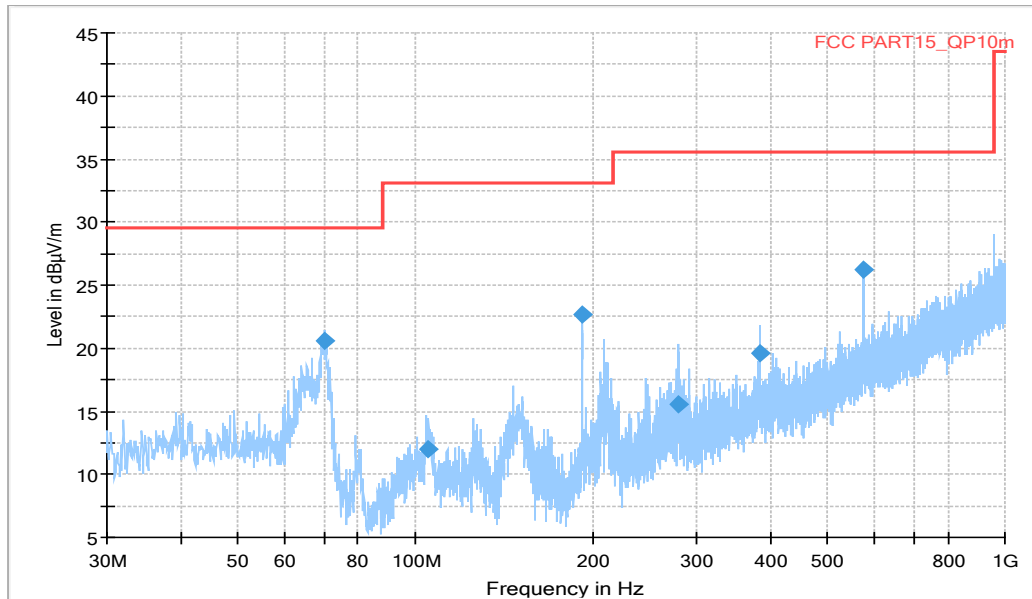


Figure A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)
70.06100	20.64	29.50	8.90	1000.0	120.000	105.0	V	300.0
105.4660	12.01	33.10	21.05	1000.0	120.000	187.0	V	240.0
192.1840	22.68	33.10	10.38	1000.0	120.000	102.0	V	181.0
278.7080	15.58	35.60	19.98	1000.0	120.000	125.0	V	172.0
384.4380	19.64	35.60	15.92	1000.0	120.000	125.0	V	210.0
576.7890	26.22	35.60	9.34	1000.0	120.000	320.0	V	120.0

Full Spectrum

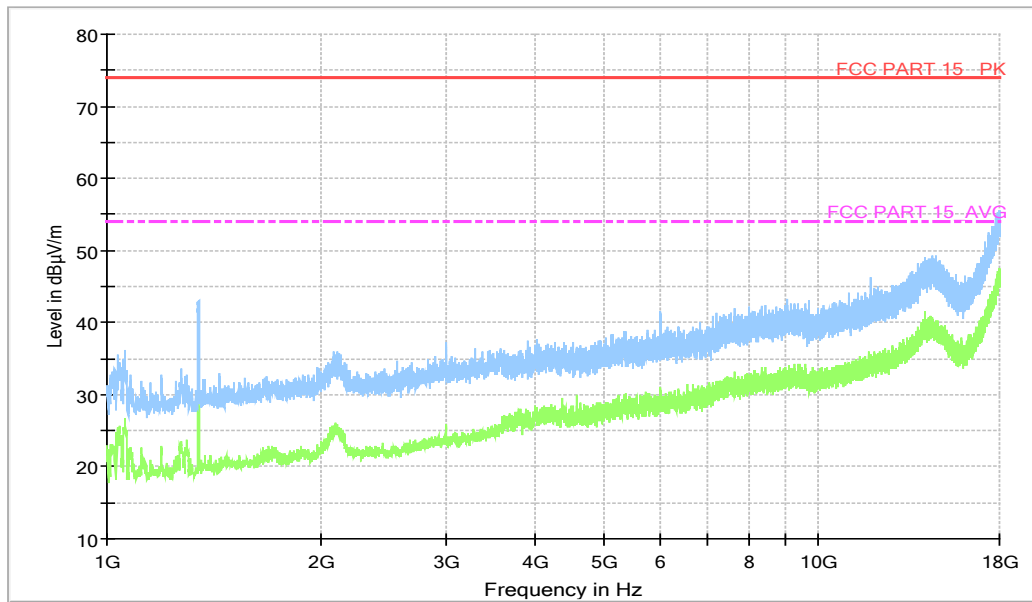


Figure A.6 Radiated Emission from 1GHz to 18GHz

Average detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.800	47.1	-29.1	46.7	29.498	54.0	6.9	V
17980.733	47.1	-29.1	46.7	29.498	54.0	6.9	V
17973.933	46.7	-29.1	46.7	29.101	54.0	7.3	V
17990.933	46.6	-29.1	46.7	28.998	54.0	7.4	H
17996.033	46.5	-29.1	46.7	28.898	54.0	7.5	H
17937.100	46.5	-29.4	46.7	29.239	54.0	7.5	V

Peak detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17981.867	55.5	-29.1	46.7	37.898	74.0	18.5	H
17953.533	55.5	-28.9	46.7	37.783	74.0	18.5	V
17957.500	55.5	-28.9	46.7	37.783	74.0	18.5	V
17924.633	55.2	-29.4	46.7	37.939	74.0	18.8	V
17996.033	55.2	-29.1	46.7	37.598	74.0	18.8	V
17982.433	55.1	-29.1	46.7	37.498	74.0	18.9	H

Set.4

Full Spectrum

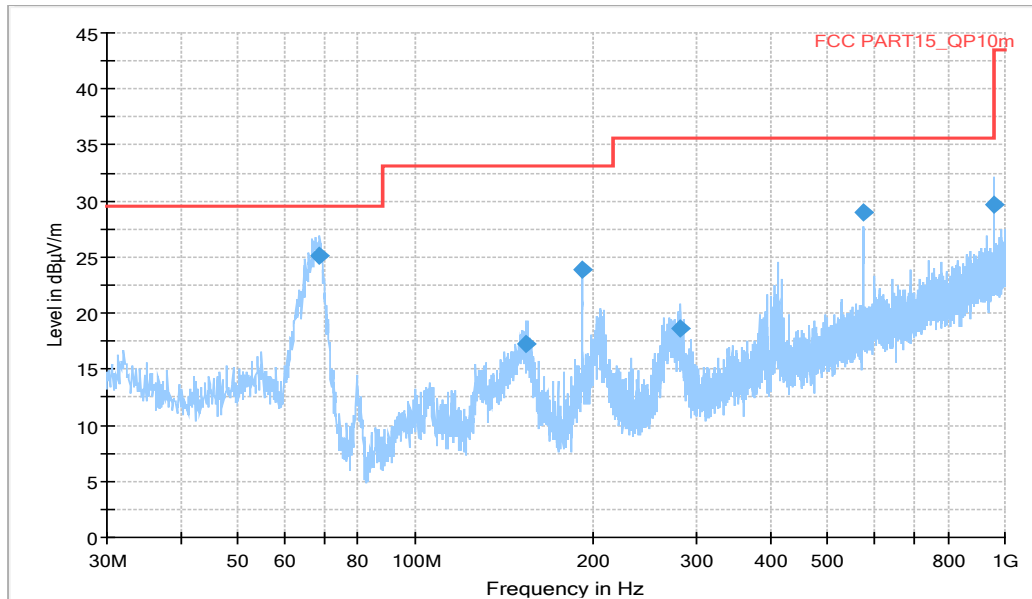


Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)
68.89700	25.14	29.50	4.40	1000.0	120.000	102.0	V	-15.0
154.0630	17.19	33.10	15.87	1000.0	120.000	98.0	V	300.0
191.5050	23.85	33.10	9.21	1000.0	120.000	102.0	V	177.0
282.2970	18.65	35.60	16.91	1000.0	120.000	107.0	V	255.0
574.3640	29.02	35.60	6.54	1000.0	120.000	232.0	V	178.0
957.7080	29.66	35.60	5.90	1000.0	120.000	345.0	V	88.0

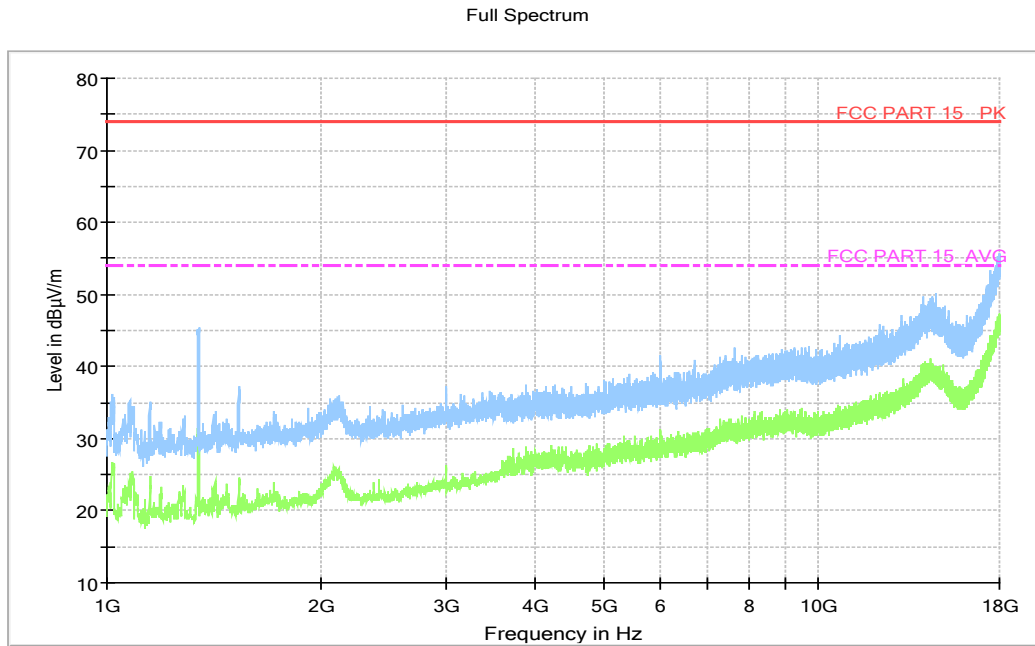


Figure A.8 Radiated Emission from 1GHz to 18GHz

Average detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.633	47.4	-29.1	46.7	29.801	54.0	6.6	V
17961.467	47.0	-29.1	46.7	29.401	54.0	7.0	V
17988.667	46.7	-29.1	46.7	29.098	54.0	7.3	V
17973.933	46.6	-29.1	46.7	29.001	54.0	7.4	V
17970.533	46.5	-29.1	46.7	28.901	54.0	7.5	H
17963.167	46.4	-29.1	46.7	28.801	54.0	7.6	V

Peak detector result

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.467	55.7	-29.1	46.7	38.098	74.0	18.3	H
17990.367	55.5	-29.1	46.7	37.898	74.0	18.5	H
17979.033	55.3	-29.1	46.7	37.701	74.0	18.7	V
17996.033	55.3	-29.1	46.7	37.698	74.0	18.7	H
18000.000	55.2	-29.2	47.0	37.443	74.0	18.8	V
17908.200	55.2	-29.3	46.0	38.572	74.0	18.8	H

A.2 Conducted Emission

Reference

FCC: CFR Part 15.107(a).

ISED: ICES-003 Section 3.2.1

A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 7.3.

For the test setup photographs please see the test setup photos document.

A.2.2 EUT Operating Mode

The system was configured for testing in a typical mode that a customer would normal use.

Cables were attached to each of the available I/O ports. Where applicable, peripherals were attached to the I/O cables. All the external I/O ports were exercised.

During the test, the EUT was charged by a travel adapter; EUT continuously copy data to external (Hard Disk & SD card) storage media; the camera was in video mode; the music was repetitively played through the headset; the WIFI and BT function was on and worked in receiver mode.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency

A.2.4 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60

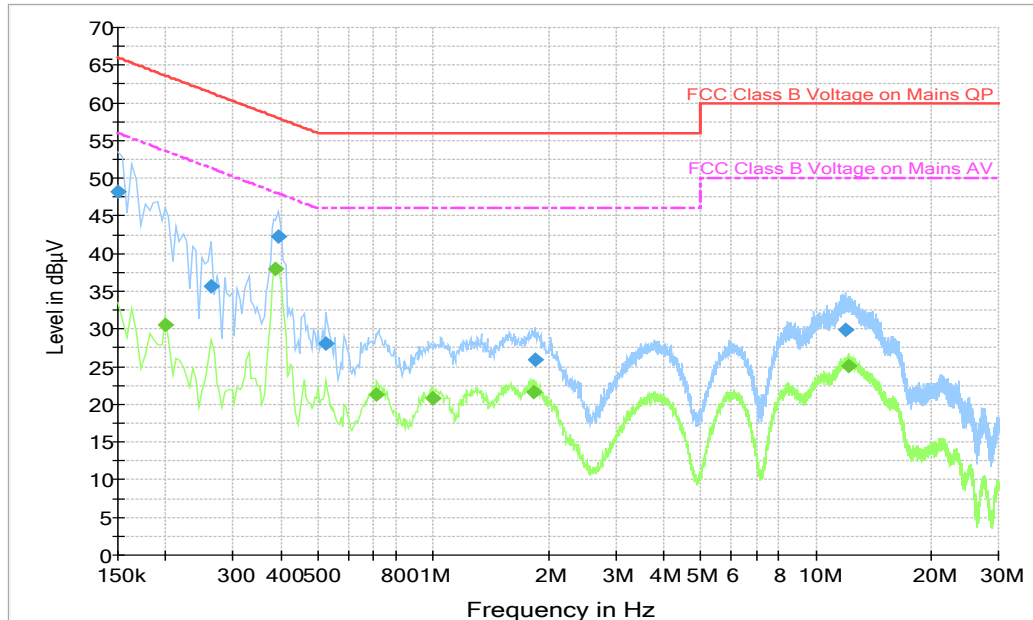
RBW/IF bandwidth	Sweep Time(s)
9kHz	1

A.2.5 Measurement Results

Measurement uncertainty: $U= 3.08 \text{ dB}$, $k=2$.

Note: all modes have been tested and the worst results shown here.

Set.1



Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Figure A.9 Conducted Emission

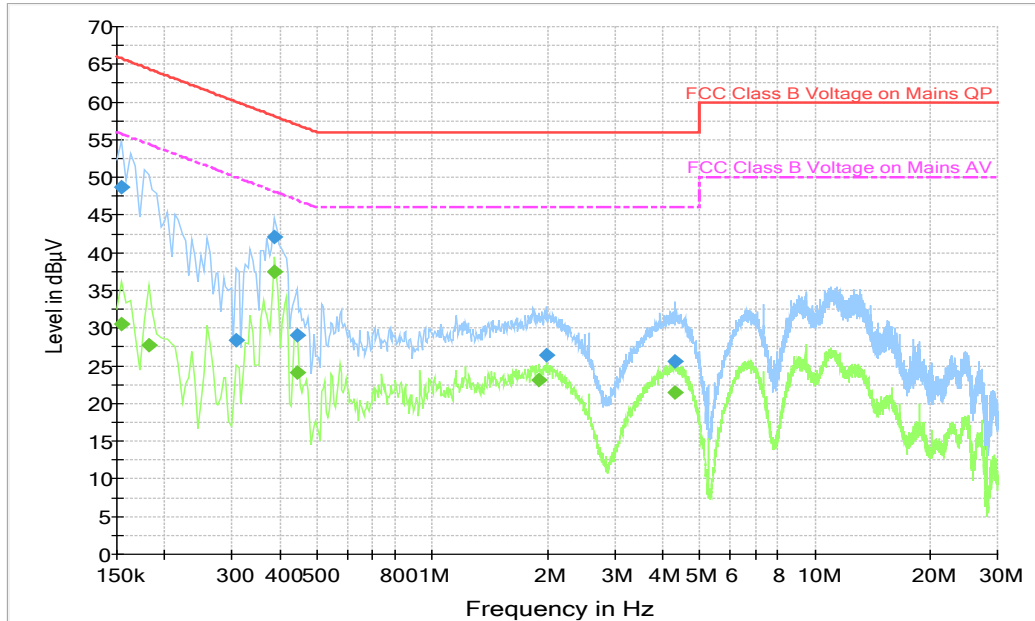
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	48.2	GND	L1	9.8	17.8	66.0
0.262500	35.7	GND	L1	9.8	25.6	61.4
0.393000	42.3	GND	L1	9.8	15.7	58.0
0.523500	28.1	GND	N	9.8	27.9	56.0
1.851000	25.9	GND	L1	9.7	30.1	56.0
11.940000	29.8	GND	L1	9.0	30.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.199500	30.5	GND	L1	9.8	23.1	53.6
0.388500	38.0	GND	N	9.8	10.1	48.1
0.712500	21.2	GND	L1	9.8	24.8	46.0
1.000500	20.8	GND	L1	9.8	25.2	46.0
1.833000	21.6	GND	L1	9.7	24.4	46.0
12.151500	25.2	GND	L1	8.9	24.8	50.0

Set.3



Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Figure A.10 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	48.6	GND	L1	9.8	17.1	65.8
0.307500	28.4	GND	L1	9.8	31.7	60.0
0.388500	42.0	GND	N	9.8	16.1	58.1
0.442500	29.1	GND	L1	9.8	27.9	57.0
1.990500	26.4	GND	L1	9.7	29.6	56.0
4.321500	25.6	GND	N	9.7	30.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	30.6	GND	N	9.8	25.1	55.8
0.181500	27.8	GND	N	9.8	26.6	54.4
0.388500	37.5	GND	L1	9.8	10.6	48.1
0.442500	24.2	GND	L1	9.8	22.8	47.0
1.905000	23.1	GND	L1	9.7	22.9	46.0
4.321500	21.5	GND	L1	9.7	24.5	46.0



ANNEX B: Persons involved in this testing

Test Item	Tester
Radiated Emission	Zhang Tianli, Ding Zai
Conducted Emission	Yang Mengke

*****END OF REPORT*****