Industrial Internet Innovation Center (Shanghai) Co.,Ltd.

EMC TEST REPORT

PRODUCT	POS System
BRAND	SUNMI
MODEL	L15A2,L15B2
APPLICANT	Shanghai Sunmi Technology Co.,Ltd.
FCC ID	2AH25T3PRO
ISSUE DATE	December 16, 2024
STANDARD(S)	FCC Part 15, Subpart B, ANSI C63.4-2014, ICES-003 Issue 7.

Prepared by: ***Li Liukai*** **Reviewed by:** ***Qin Yabin*** **Approved by:** ***Zhang Min***

CONTENTS

1 Summary of Test Report

1.1 Test Standard (s)

No.	Test Standard(s)	Title
1	FCC Part 15, Subpart B	Radio frequency devices
2	ANSI C63.4	Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
3	ICES-003	Information Technology Equipment (Including Digital Apparatus)-Limits and Methods of Measurement
NOTE: According to customer requirements, test and report using the latest version of the standard.		

1.2 Summary of Test Results

No.	Item(s)	FCC Standard(s)	IC Standard(s)	Verdicts for Single Item	Detaied Results
1	Radiated Emission	15.109(a)	3.2.2	Pass	See section 6.1
2	AC Conducted Emission	15.107(a)	3.2.1	Pass	See section 6.2

NOTE:
The L15A2,L15B2, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing. This project is a variant project based on the original report I23W00036-EMC-Rev2 issued by cqcatr with below changes:
- System change.
- PCB change.

According to the product change description, we test the worst mode of the original report, as shown in Section 5.3.
Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 1.3.
Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 4 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 1 of this test report.
There are two configurations S03aa Main Supply-L15A2 (With Printer) & S04aa Secondary Supply-L15B2 (Without Printer). The description of the differences between S03aa and S04aa is as follows.

EUT ID	SN or IMEI	Model	Printer
S03aa	TP02E4AT40024	L15A2	80 Printer
S04aa	TR02E4AV40026	L15B2	N/A

2 General Information of The Laboratory

2.1 Testing Laboratory

Lab Name	Industrial Internet Innovation Center (Shanghai) Co.,Ltd.
Address	Building 4, No. 766, Jingang Road, Pudong, Shanghai, China
Telephone	021-68866880
FCC Registration No.	708870
FCC Designation No.	CN1364
IC designation No.	10766A
CAB identifier	CN0067

2.2 Laboratory Environmental Requirements

Temperature	15℃~35℃
Relative Humidity	25%RH~75%RH
Atmospheric Pressure	86kPa~106kPa
Supply Voltage	120V/60Hz

2.3 Project Information

Project Manager	Gao Hongning
Test Date	November 19, 2024 to November 27, 2024

3 General Information of The Customer

3.1 Applicant

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Telephone	+86 17302160204

3.2 Manufacturer

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Telephone	+86 17302160204

3.3 Factory

Company	N/A
Address	N/A

4 General Information of The Product

4.1 Product Description for Equipment under Test (EUT)

Product	POS System
Model	L15A2,L15B2
Date of Receipt	November 14, 2024
EUT ID*	S03aa Main Supply & S04aa Secondary Supply
SN/IMEI	TP02E4AT40024 TR02E4AV40026
Supported Radio Technology and Bands	BT 5.0 BR/EDR/BLE WLAN 802.11b,g,n,ax WLAN 802.11a,n,ac,ax NFC
Hardware Version	6490Coreboard_MB_V3.0
Software Version	3.0.0
Power Rating	DC 24 from Adapter
Highest frequency range	7115 MHz
NOTE1: EUT ID is the internal identification code of the laboratory. NOTE2: Photographs of EUT are shown in ANNEX A of this test report. NOTE3: Samples in the test report are provided by the customer. The test results are only applicable to the samples received by the laboratory.	

4.2 Description for Auxiliary Equipment (AE)

AE ID*	Description	Model	SN/Remark
CA03	Adapter	CYSE65-240250	Jiangsu Chenyang Electron Co.,Ltd. Input:100-240V~50/60Hz 1.7A Output: 24.0V⎓2.5A 60.0W
UA03	AC Cable	N/A	N/A
EA03	Separate Monitor	NP511	N/A
EB03	Separate Monitor	NP512	N/A
AE1	Cash Box	NC020	N/A
AE2	Notebook PC	ThinkPad	N/A
AE3	U disk	Kingston DTSE9 16GB	N/A
AE4	U disk	Kingston DTSE9 16GB	N/A
AE5	Mouse	N/A	N/A

AE6	Keyboard	N/A	N/A
AE7	LAN Cable	N/A	N/A
AE8	USB Cable	N/A	N/A
AE9	Telephone	HA8000(28) P/T S	N/A
NOTE: *AE ID is the internal identification code of the laboratory.			

5 Test Configuration Information

5.1 Laboratory Environmental Conditions

5.1.1 Permanent Facilities

Semi-anechoic chamber SAC3-1 (9 m*8m*6.2m) & SAC3-2 (9.8m*6.7m*6.7m)	
Shielding effectiveness	0.014MHz ~1MHz, >60dB; 1MHz~1000MHz, >90dB.
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (SVSWR)	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	
Shielding effectiveness	0.014MHz~1MHz, >60dB; 1MHz~1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω

5.2 Decision of final test mode

The EUT was tested in conjunction with the accessories in Section 4.2. We tested all of the following test modes and selected the worst mode from the test results and recorded them in the report.

The test configuration modes are as the following:

S03aa Main Supply:

Test Item	Test setup and operating modes
Radiated emission	30MHz-18GHz frequency range: Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE
AC Conducted emission	Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE

S04aa Secondary Supply:

Test Item	Test setup and operating modes
Radiated emission	30MHz-18GHz frequency range: Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE
AC Conducted emission	Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE

5.3 EUT System Operation

1. Connect the EUT with AE.
2. Setup the EUT according to the standard.
3. Start testing and monitoring the function.
4. Full system mode: The EUT is powered by a power adapter and maintained camera recording condition. Separate Monitor is plugged directly into the EUT or connected to the EUT via a USB cable. The EUT is connected to a PC through network cable. The RJ11 port is connected Telephone. Other ports are connected to keyboard, U disk etc. and through LAN cable to PC for exchange of PING command, EUT and U disk for data transmission. Keep working at maximum load.

5.4 EUT Connection Diagram of Test System

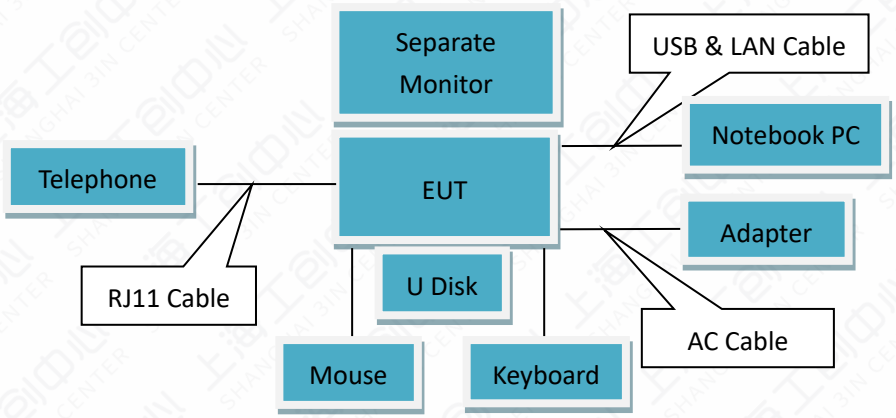

Figure 5.4-1 Mode 1

5.5 Test Equipment Utilized

No.	Name	Model	S/N	SW Version	HW Version	Manufacturer	Cal. Date	Cal. Interval
1	Test Receiver	ESCI	101235	V5.1-24-3	00	R&S	2023-12-19	1 year
2	Test Receiver	ESR7	102399	1.4	00	R&S	2024-06-07	1 year
3	Test Receiver	FSW43	101943	1.12	00	R&S	2024-08-21	1 year
4	Trilog Antenna	VULB9162	00426	N/A	N/A	Schwarzbeck	2024-08-02	1 year
5	Double Ridged Guide Antenna	ETS-3117	00135885	N/A	N/A	ETS	2024-03-26	1 year
6	2-Line V-Network	ENV216	101380	N/A	N/A	R&S	2023-12-19	1 year
7	EMI Test Software	EMC32 V10.35.02	N/A	N/A	N/A	R&S	N/A	N/A
8	EMI Test Software	EMC32 V10.60.20	N/A	N/A	N/A	R&S	N/A	N/A
11	Preamplifier	SCU08F1	8320024	N/A	N/A	R&S	2024-10-09	1 year
12	Preamplifier	SCU18	10155	N/A	N/A	R&S	2024-10-09	1 year

5.6 Measurement Uncertainty

Item (s)	Uncertainty
Radiated Emission 30MHz-1000MHz	4.92 dB
Radiated Emission 1000MHz-18000MHz	5.66 dB
Conducted Emission	3.52 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k*=2.	

6 Test Results

6.1 Radiated Emission

6.1.1 Method of Measurement

a. For 30MHz - 1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

b. For 1000MHz - 18000MHz, the EUT was placed on the top of a 0.8m table above the ground at a 3m fully anechoic chamber. The maximal emission value was acquired by adjusting the antenna height, The table was rotated 360 degrees to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement

6.1.2 EUT Connection Diagram of Test System

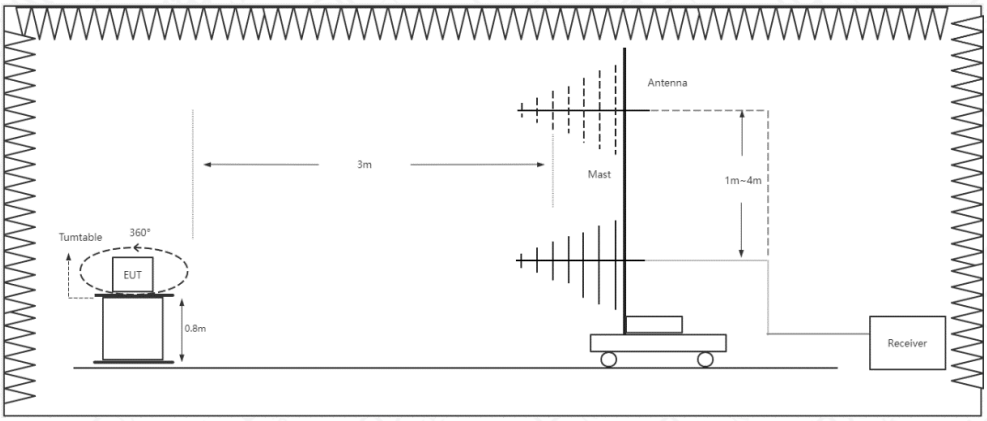

Figure 6.1.2-1 RE 30MHz-1GHz Connection Diagram

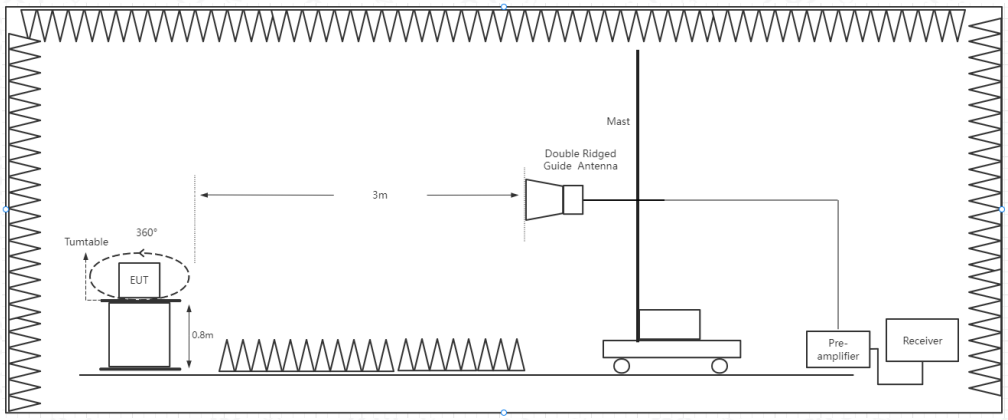

Figure 6.1.2-2 RE Above 1GHz Connection Diagram

6.1.3 Test Condition

Frequency Range (MHz)	RBW/VBW	Sweep Time (s)
30-1000	120kHz/300kHz	AUTO
1000-40000	1MHz/3MHz	AUTO

6.1.4 Limit/Criterion

Frequency Range (MHz)	Quasi-Peak (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
30-88	40	N/A	N/A
88-216	43.5	N/A	N/A
216-960	46	N/A	N/A
Above 960	54	N/A	N/A
Above 1000	N/A	74	54

6.1.5 Test environmental conditions

Temperature	23.3℃
Relative Humidity	53.1%RH
Atmospheric Pressure	100.5 kPa

6.1.6 Test Results

S03aa Main Supply:

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE	30-1000	See Annex A.1-1	Pass
Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE	1000-18000	See Annex A.1-2 &A.1-3	Pass
NOTE: Abbreviations used in this clause: Pass—P; Fail—F; Not applicable—N/A			

S04aa Secondary Supply:

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE	30-1000	See Annex A.1-4	Pass
Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE	1000-18000	See Annex A.1-5 &A.1-6	Pass
NOTE: Abbreviations used in this clause: Pass—P; Fail—F; Not applicable—N/A			

Note: Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.

6.2 Conducted Emission

6.2.1 Method of Measurement

The EUT was placed on a 0.8m height table with EUT being connected to the power mains through a line impedance stabilization network (LISN). Both lines of the power mains connected to the EUT were checked for maximum conducted interference. The frequency range from 150 kHz to 30 MHz was searched.

6.2.2 EUT Connection Diagram of Test System

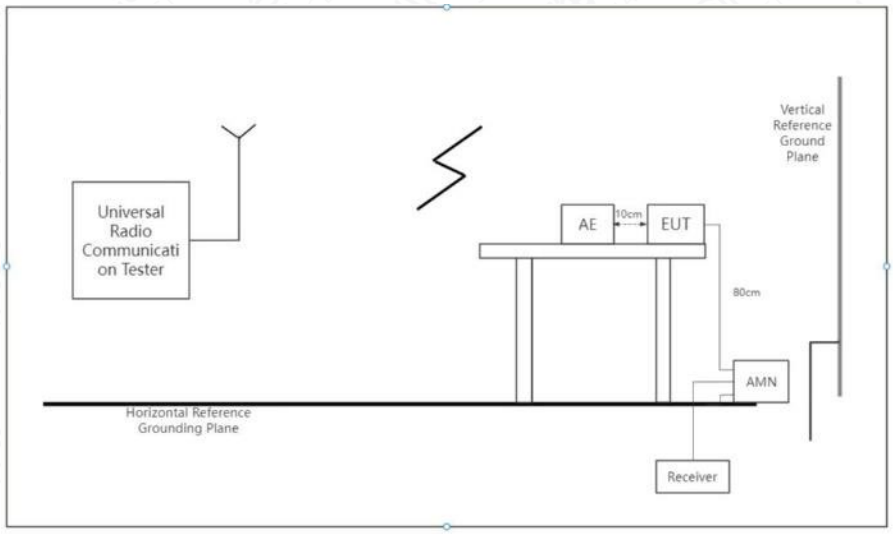

Figure 6.2.2-1 CE Connection Diagram

6.2.3 Test Condition

Test Condition in Charging Mode

Voltage (V)	Frequency (Hz)	RBW	Sweep Time (s)
120	60	9 kHz	AUTO

6.2.4 Limit

Frequency Range (MHz)	Conducted Limit (dBμV)	
	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		

6.2.5 Testing environmental conditions

Temperature	23.2℃
Relative Humidity	49.8%RH
Atmospheric Pressure	101.1kPa

6.2.6 Test Results

S03aa Main Supply:

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE	0.15-30	See Annex A.2-1	Pass
NOTE Abbreviations used in this clause: Pass—P; Fail—F; Not applicable—N/A			

S04aa Secondary Supply:

Mode	Frequency (MHz)	Test Results	Verdicts
Mode 1: Working mode (Full system) + Data Link (U DISK TO EUT) + CA03+ UA03+ EA03+ AE	0.15-30	See Annex A.2-2	Pass
NOTE Abbreviations used in this clause: Pass—P; Fail—F; Not applicable—N/A			

Annex A: Measurement Data

A.1 Radiated Emission

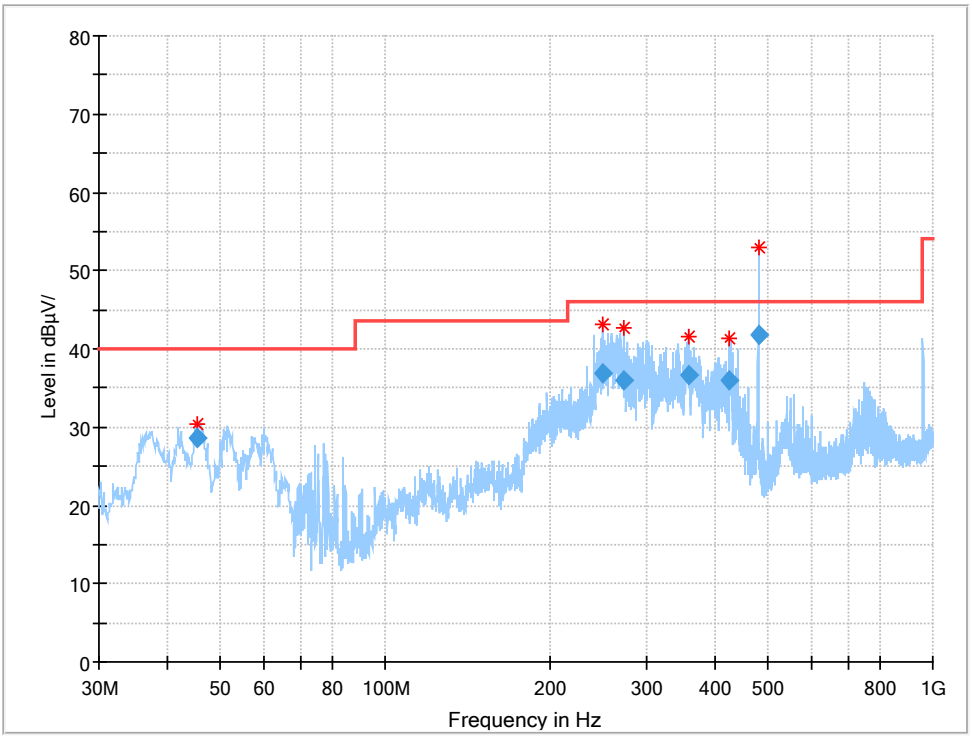

Figure A.1-1 Mode 1 (30M-1GHz) _ S03aa Main Supply

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.440120	28.54	40.00	11.46	100.0	V	79.0	-11.5
250.155880	36.93	46.00	9.07	100.0	H	6.0	-10.3
273.642040	36.04	46.00	9.96	100.0	H	0.0	-10.6
357.692400	36.60	46.00	9.40	100.0	H	0.0	-8.5
425.864080	36.07	46.00	9.93	200.0	H	160.0	-6.7
479.831320	41.82	46.00	4.18	100.0	V	128.0	-5.5

Note:

1.Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

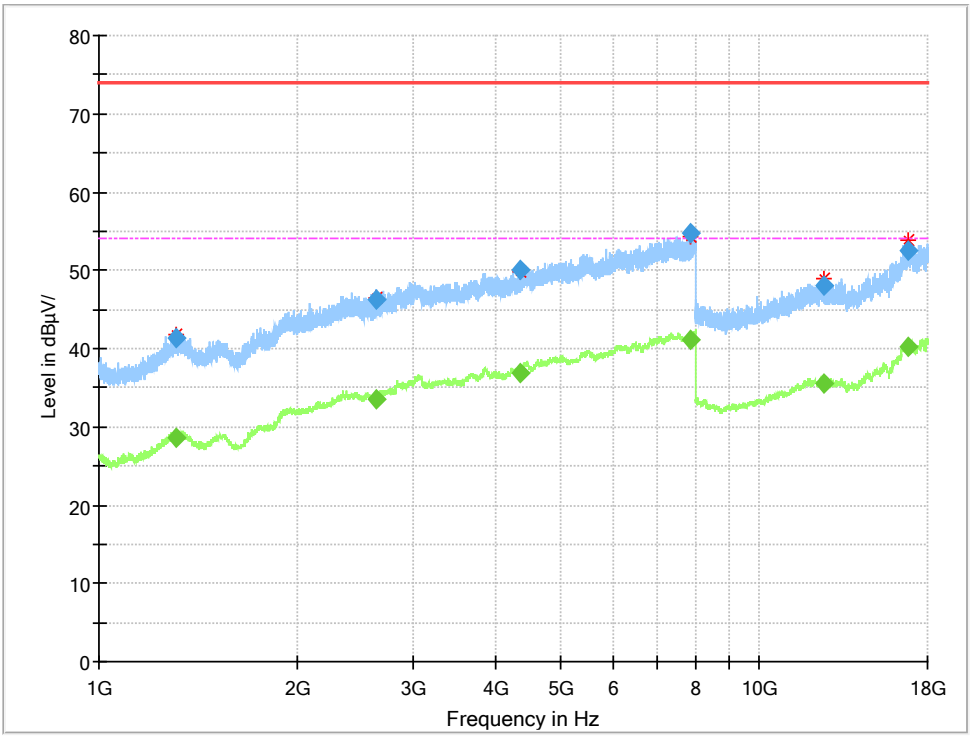

Figure A.1-2 Mode 1 (1GHz-18GHz)-H _ S03aa Main Supply

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1311.132500	---	28.62	54.00	25.38	115.0	H	196.0	3.1
1311.132500	41.39	---	74.00	32.61	115.0	H	196.0	3.1
2625.962500	---	33.42	54.00	20.58	215.0	H	186.0	9.1
2625.962500	46.32	---	74.00	27.68	215.0	H	186.0	9.1
4342.432500	---	36.79	54.00	17.21	215.0	H	253.0	14.0
4342.432500	50.14	---	74.00	23.86	215.0	H	253.0	14.0
7895.921250	54.81	---	74.00	19.19	215.0	H	355.0	21.0
7895.921250	---	41.20	54.00	12.80	215.0	H	355.0	21.0
12530.516250	48.05	---	74.00	25.95	204.0	H	274.0	15.3
12530.516250	---	35.49	54.00	18.51	204.0	H	274.0	15.3
16783.103750	---	40.24	54.00	13.76	215.0	H	357.0	22.0
16783.103750	52.49	---	74.00	21.51	215.0	H	357.0	22.0

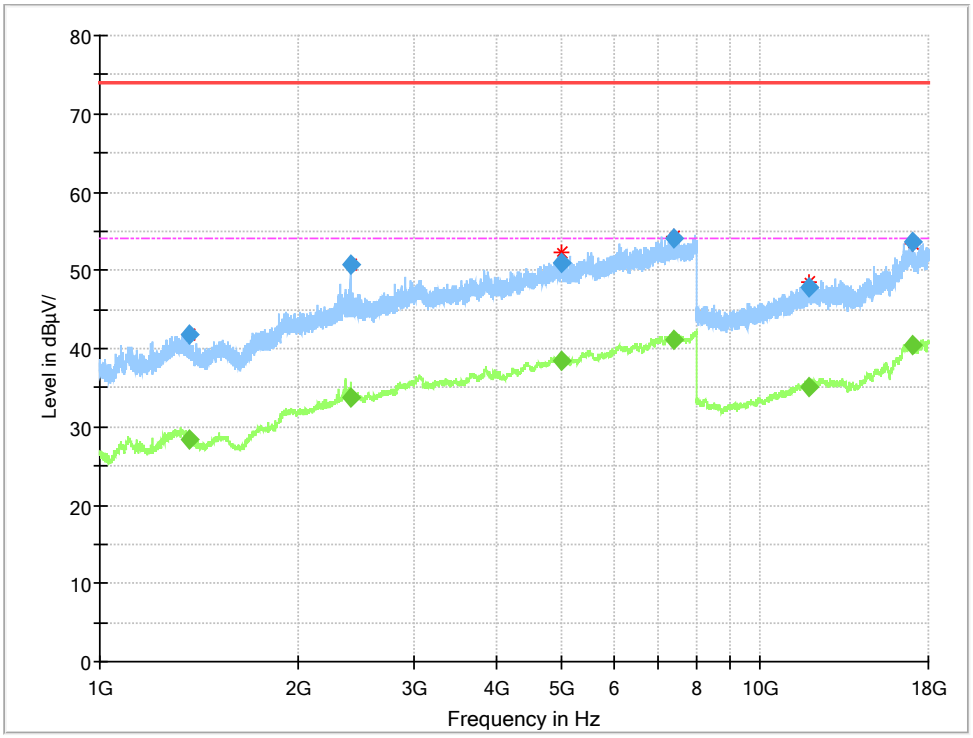

Figure A.1-3 Mode 1 (1GHz-18GHz)-V _ S03aa Main Supply

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1365.227500	41.69	---	74.00	32.31	103.0	V	359.0	2.8
1365.227500	---	28.36	54.00	25.64	103.0	V	359.0	2.8
2393.517500	---	33.74	54.00	20.26	103.0	V	200.0	8.7
2393.517500	50.82	---	74.00	23.18	103.0	V	200.0	8.7
4994.863750	---	38.33	54.00	15.67	103.0	V	95.0	15.4
4994.863750	50.95	---	74.00	23.05	103.0	V	95.0	15.4
7405.558750	---	41.02	54.00	12.98	204.0	V	0.0	20.5
7405.558750	54.12	---	74.00	19.88	204.0	V	0.0	20.5
11864.385000	---	35.09	54.00	18.91	203.0	V	46.0	13.8
11864.385000	47.82	---	74.00	26.18	203.0	V	46.0	13.8
17010.826250	53.64	---	74.00	20.36	103.0	V	257.0	22.0
17010.826250	---	40.45	54.00	13.55	103.0	V	257.0	22.0

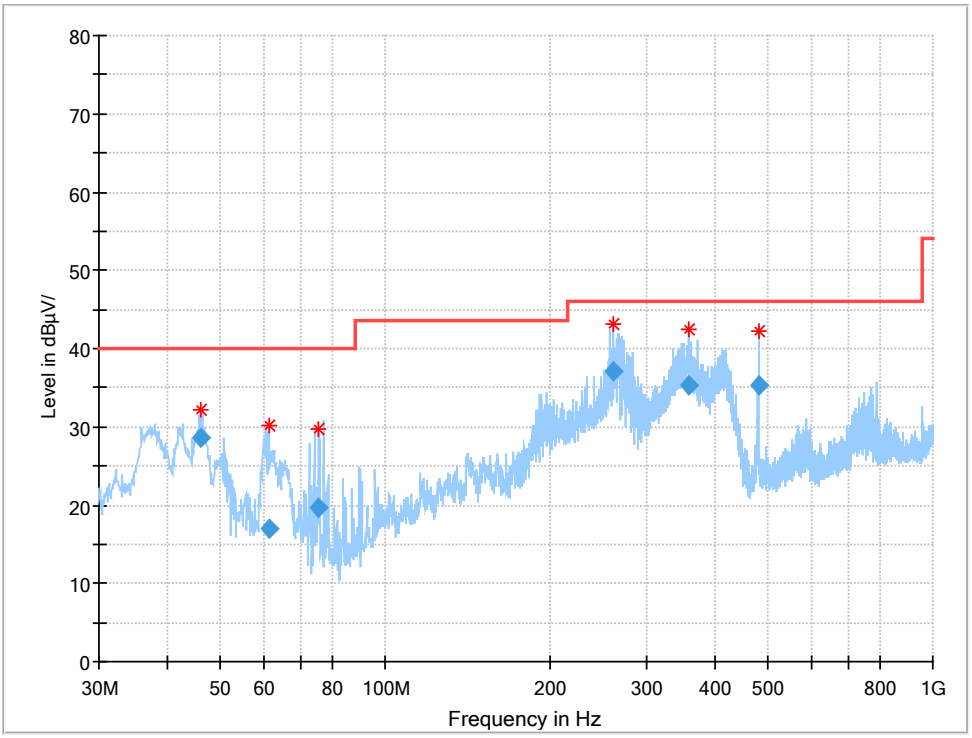

Figure A.1-4 Mode 1 (30M-1GHz) _ S04aa Secondary Supply

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.904360	28.52	40.00	11.48	100.0	V	4.0	-11.4
61.576800	16.95	40.00	23.05	100.0	V	304.0	-13.2
75.747360	19.72	40.00	20.28	100.0	V	185.0	-17.4
260.338040	37.08	46.00	8.92	100.0	H	8.0	-10.7
358.147800	35.40	46.00	10.60	100.0	H	334.0	-8.5
480.175000	35.26	46.00	10.74	100.0	V	120.0	-5.4

Note:

1.Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

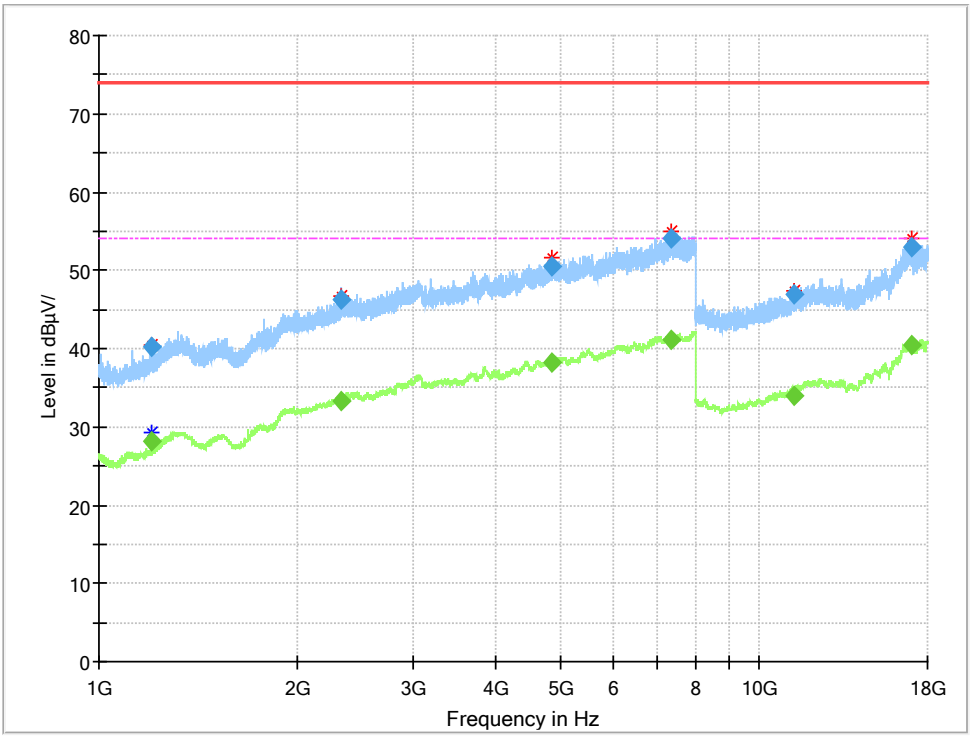

Figure A.1-5 Mode 1 (1GHz-18GHz)-H _ S04aa Secondary Supply

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.398750	40.28	---	74.00	33.72	115.0	H	164.0	0.5
1200.398750	---	28.17	54.00	25.83	115.0	H	164.0	0.5
2330.401250	---	33.24	54.00	20.76	215.0	H	304.0	8.4
2330.401250	46.27	---	74.00	27.73	215.0	H	304.0	8.4
4854.336250	---	38.10	54.00	15.90	215.0	H	295.0	15.1
4854.336250	50.49	---	74.00	23.51	215.0	H	295.0	15.1
7353.431250	---	41.20	54.00	12.80	115.0	H	203.0	20.4
7353.431250	54.12	---	74.00	19.89	115.0	H	203.0	20.4
11315.235000	---	34.02	54.00	19.98	115.0	H	180.0	12.0
11315.235000	46.87	---	74.00	27.13	115.0	H	180.0	12.0
17058.476250	---	40.38	54.00	13.62	206.0	H	203.0	21.8
17058.476250	52.86	---	74.00	21.14	206.0	H	203.0	21.8

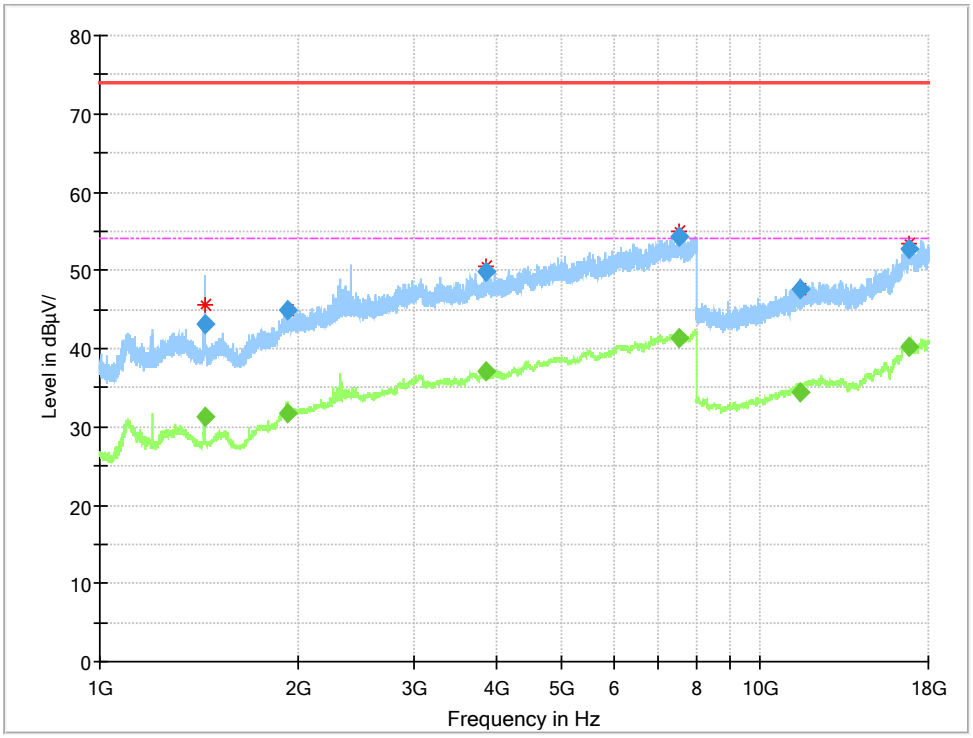

Figure A.1-6 Mode 1 (1GHz-18GHz)-V _ S04aa Secondary Supply

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1439.897500	43.20	---	74.00	30.80	115.0	V	5.0	1.7
1439.897500	---	31.34	54.00	22.66	115.0	V	5.0	1.7
1925.091250	---	31.69	54.00	22.31	115.0	V	50.0	6.7
1925.091250	44.83	---	74.00	29.17	115.0	V	50.0	6.7
3849.262500	---	37.13	54.00	16.87	103.0	V	259.0	13.3
3849.262500	49.75	---	74.00	24.25	103.0	V	259.0	13.3
7551.092500	---	41.38	54.00	12.62	103.0	V	357.0	21.0
7551.092500	54.26	---	74.00	19.74	103.0	V	357.0	21.0
11528.380000	47.58	---	74.00	26.42	204.0	V	359.0	12.8
11528.380000	---	34.51	54.00	19.49	204.0	V	359.0	12.8
16860.081250	52.67	---	74.00	21.33	187.0	V	356.0	21.9
16860.081250	---	40.29	54.00	13.71	187.0	V	356.0	21.9

A.2 Conducted Emission

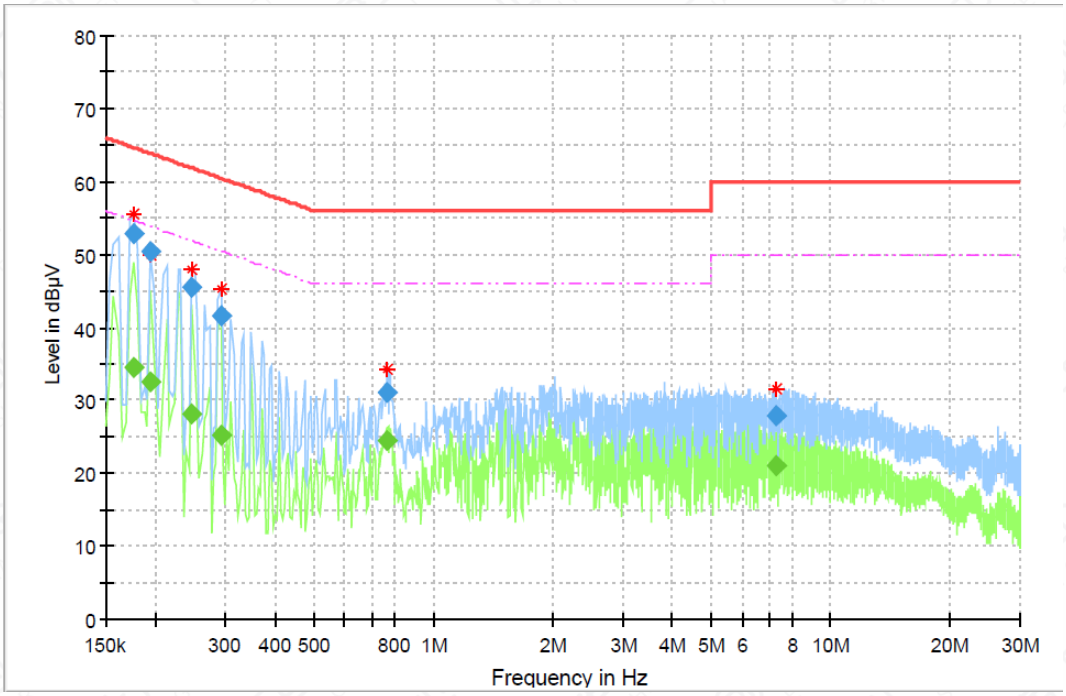

Figure A.2-1 Mode 1 (150kHz-30MHz) _ S03aa Main Supply

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.176119	---	34.41	54.67	20.25	15000.0	9.000	L1	ON	10.0
0.176119	52.89	---	64.67	11.78	15000.0	9.000	L1	ON	10.0
0.194775	---	32.54	53.83	21.29	15000.0	9.000	L1	ON	10.1
0.194775	50.48	---	63.83	13.35	15000.0	9.000	L1	ON	10.1
0.247013	---	28.14	51.86	23.72	15000.0	9.000	L1	ON	10.1
0.247013	45.59	---	61.86	16.27	15000.0	9.000	L1	ON	10.1
0.291788	---	25.29	50.47	25.18	15000.0	9.000	L1	ON	10.2
0.291788	41.67	---	60.47	18.81	15000.0	9.000	L1	ON	10.2
0.765656	---	24.38	46.00	21.62	15000.0	9.000	L1	ON	9.9
0.765656	31.00	---	56.00	25.00	15000.0	9.000	L1	ON	9.9
7.314000	---	21.08	50.00	28.92	15000.0	9.000	L1	ON	9.7
7.314000	27.86	---	60.00	32.14	15000.0	9.000	L1	ON	9.7

Note：L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.

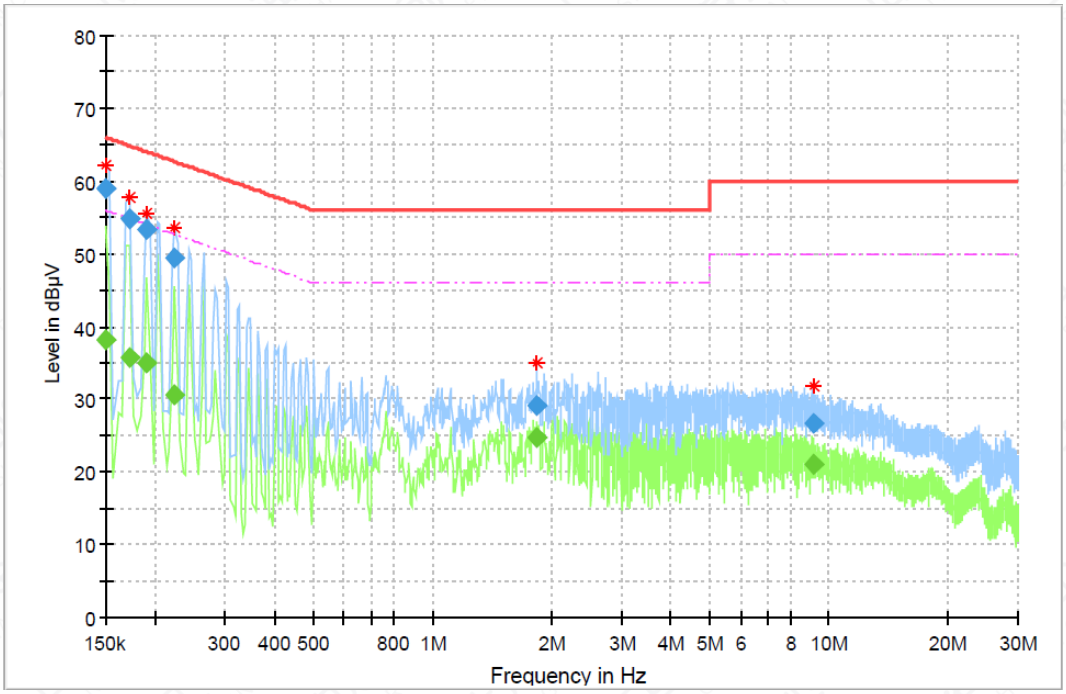

Figure A.2-2 Mode 1 (150kHz-30MHz) _ S04aa Secondary Supply

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	59.03	---	66.00	6.97	15000.0	9.000	N	ON	9.9
0.150000	---	38.11	56.00	17.89	15000.0	9.000	N	ON	9.9
0.172388	---	35.77	54.85	19.07	15000.0	9.000	N	ON	9.9
0.172388	54.86	---	64.85	9.99	15000.0	9.000	N	ON	9.9
0.191044	53.28	---	63.99	10.71	15000.0	9.000	N	ON	9.9
0.191044	---	34.92	53.99	19.07	15000.0	9.000	N	ON	9.9
0.224625	49.49	---	62.65	13.16	15000.0	9.000	N	ON	9.9
0.224625	---	30.61	52.65	22.03	15000.0	9.000	N	ON	9.9
1.832794	29.18	---	56.00	26.82	15000.0	9.000	N	ON	9.8
1.832794	---	24.76	46.00	21.24	15000.0	9.000	N	ON	9.8
9.153506	---	21.08	50.00	28.92	15000.0	9.000	L1	ON	9.8
9.153506	26.75	---	60.00	33.25	15000.0	9.000	L1	ON	9.8

Note: L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.

Annex B: Revised History

Version	Revised Content
V0	Initial

Annex C: Accreditation Certificate

Accredited Laboratory

A2LA has accredited

INDUSTRIAL INTERNET INNOVATION CENTER (SHANGHAI) CO., LTD.

Shanghai, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 20th day of September 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.