

FCC EMC Test Report

Report No.: JYTSZ-R01-2500040

Applicant: ZillionSource Technologies (Shanghai) Co., Ltd.

Address of Applicant: Room 2207A, No.28, Maai Road.Shanghai Free Trade Zone, Shanghai, China

Equipment Under Test (EUT)

Product Name: Environmental variable collector for logistics

Model No.: ZT-28SE, ZT-28SE, ZT-28SE01, ZT-28SE02, ZT-28SE03, ZT-28E

Trade Mark: ZillionTrace, UBTracer

FCC ID: 2AJCRJ-ZT-28SE

Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 09 Jan., 2025

Date of Test: 10 Jan., to 20 Jan., 2025

Date of report Issued: 21 Jan., 2025

Test Result: PASS

Project by: _____

Date: 21 Jan., 2025

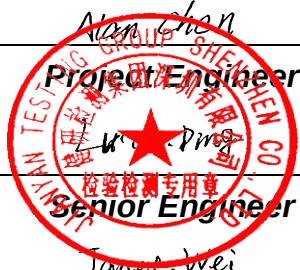
Reviewed by: _____

Date: 21 Jan., 2025

Approved by: _____

Date: 21 Jan., 2025

Manager



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	21 Jan., 2025	Original

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3 General Information

3.1 Client Information

Applicant:	ZillionSource Technologies (Shanghai) Co., Ltd.
Address:	Room 2207A, No.28, Maii Road.Shanghai Free Trade Zone, Shanghai, China
Manufacturer:	ZillionSource Technologies (Shanghai) Co., Ltd.
Address:	Room 2207A, No.28, Maii Road.Shanghai Free Trade Zone, Shanghai, China

3.2 General Description of E.U.T.

Product Name:	Environmental variable collector for logistics
Model No.:	ZT-28SE, ZT-28SE, ZT-28SE01, ZT-28SE02, ZT-28SE03, ZT-28E
Power Supply:	Rechargeable Lithium Polymer Battery DC3.7V, 3000mAh
Remark:	Model No.: ZT-28SE, ZT-28SE, ZT-28SE01, ZT-28SE02, ZT-28SE03, ZT-28E were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Operating Mode	Detail Description
Charging and Working mode	Keep the EUT in Charging and Working mode
GPS mode	Keep the EUT in GPS receiver mode
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
KEYU	AC/DC ADAPTER	KA1501A-0503000US	/	DoC

3.5 Description of Cable Used

Cable Type	Description	Length	From	To
N/A	N/A	N/A	N/A	N/A

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.4 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	±4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	±5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	±4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

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. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

3.10 Test Instruments List

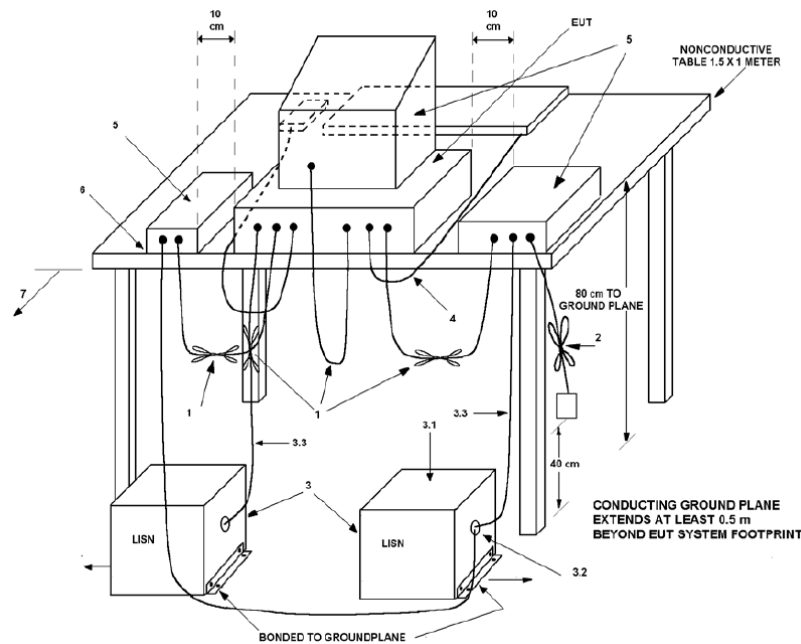
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-03-2025	01-02-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-16-2024	12-15-2025
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-17-2024	01-16-2025
				01-15-2025	01-14-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-17-2024	01-16-2025
				01-15-2025	01-14-2026
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	06-11-2024	06-10-2025
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	12-17-2024	12-16-2025
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-17-2024	12-16-2025
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-17-2024	01-16-2025
				01-15-2025	01-14-2026
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

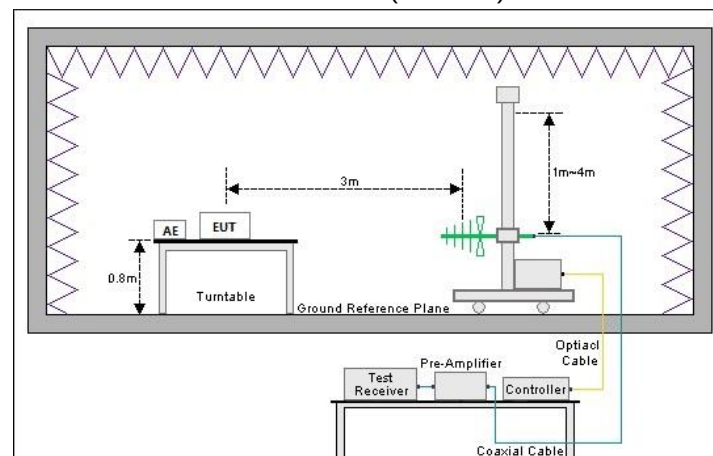
1) Conducted emission measurement:

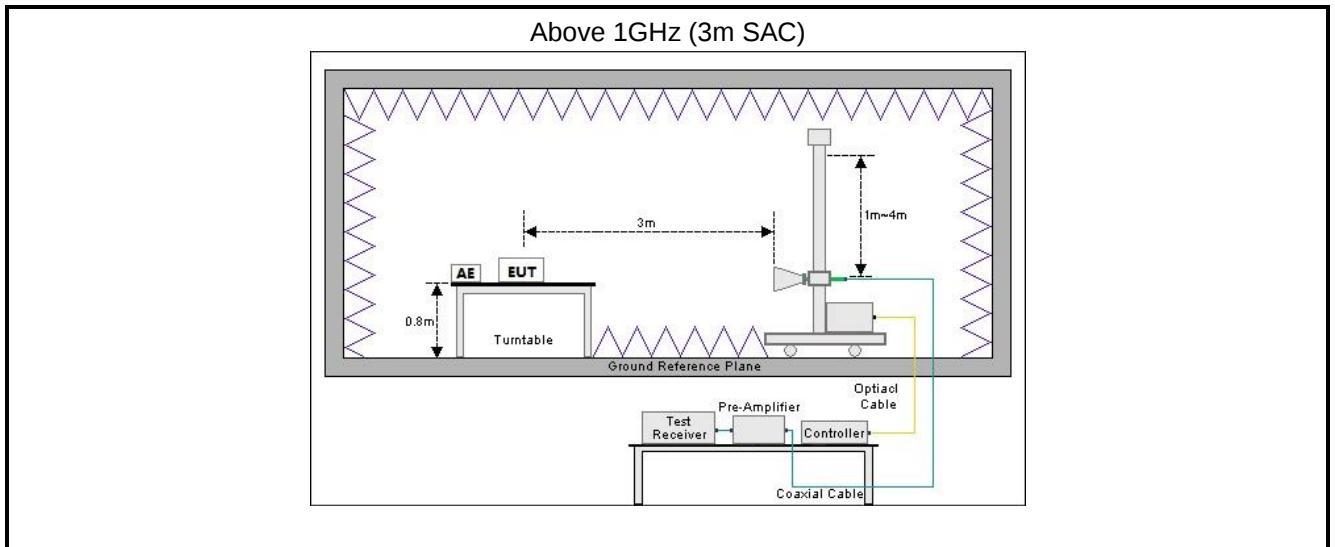


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (3m SAC)





4.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. For above 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

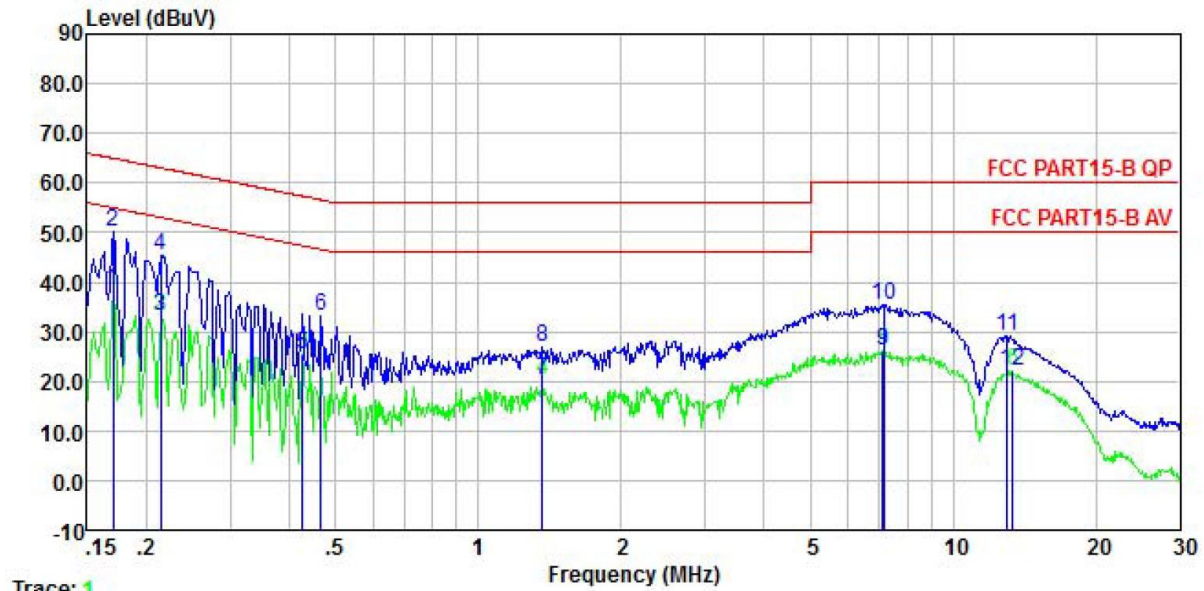
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.			
Test Method:	ANSI C63.4:2014		

5.1.2 Test Limit

Test items	Limit																																																					
Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV)</th><th colspan="2">Class B Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr><tr><td colspan="5">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.</td></tr><tr><td colspan="5">Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.					Note 2: The more stringent limit applies at transition frequencies.																							
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Radiated Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV/m)</th><th colspan="2">Class B Limit (dBμV/m)</th></tr><tr><th>Quasi-Peak @ 3m</th><th>Quasi-Peak @ 10m</th><th>Quasi-Peak @ 3m</th><th>Quasi-Peak @ 10m</th></tr><tr><td>30 – 88</td><td>49.0</td><td>39.0</td><td>40.0</td><td>30.0</td></tr><tr><td>88 – 216</td><td>53.5</td><td>43.5</td><td>43.5</td><td>33.5</td></tr><tr><td>216 – 960</td><td>56.0</td><td>46.0</td><td>46.0</td><td>36.0</td></tr><tr><td>960 – 1000</td><td>60.0</td><td>50.0</td><td>54.0</td><td>44.0</td></tr><tr><td colspan="5">Note: The more stringent limit applies at transition frequencies.</td></tr><tr><th rowspan="2">Frequency</th><th colspan="2">Class A Limit (dBμV/m) @ 3m</th><th colspan="2">Class B Limit (dBμV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>60.0</td><td>80.0</td><td>54.0</td><td>74.0</td></tr><tr><td colspan="5">Note: The measurement bandwidth shall be 1 MHz or greater.</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV/m)		Class B Limit (dBμV/m)		Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m	30 – 88	49.0	39.0	40.0	30.0	88 – 216	53.5	43.5	43.5	33.5	216 – 960	56.0	46.0	46.0	36.0	960 – 1000	60.0	50.0	54.0	44.0	Note: The more stringent limit applies at transition frequencies.					Frequency	Class A Limit (dBμV/m) @ 3m		Class B Limit (dBμV/m) @ 3m		Average	Peake	Average	Peake	Above 1 GHz	60.0	80.0	54.0	74.0	Note: The measurement bandwidth shall be 1 MHz or greater.				
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	960 – 1000	60.0	50.0	54.0	44.0																																																	
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5.2 Conducted Emission

Product name:	Environmental variable collector for logistics	Product model:	ZT-28SE
Test by:	Alan Chen	Test mode:	Charging and Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

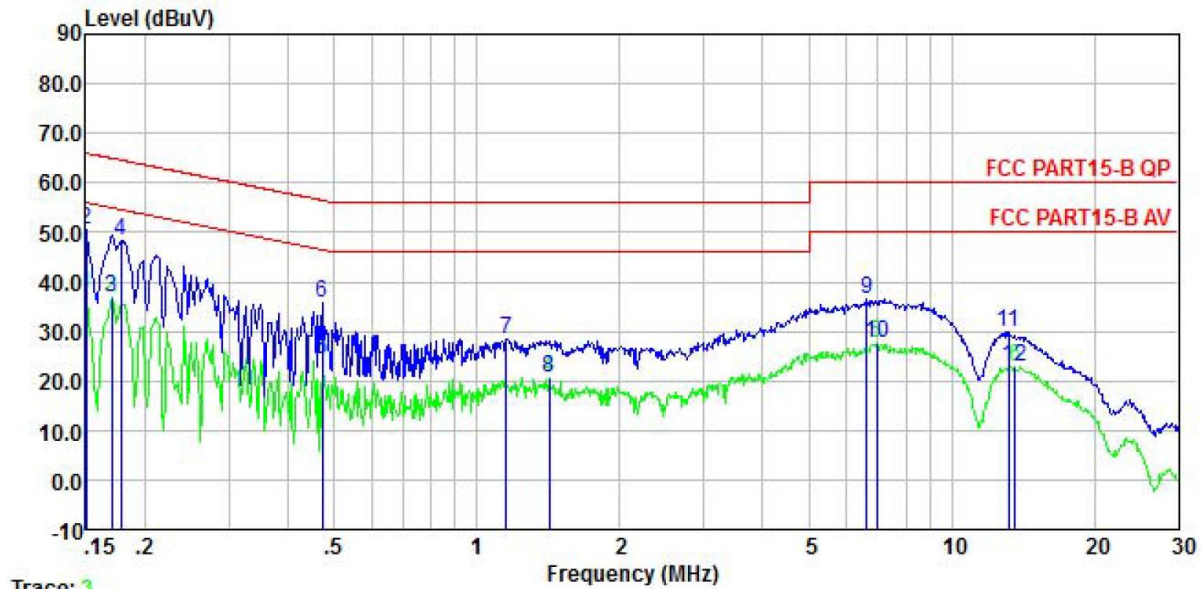


	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.170	28.27	0.20	0.00	9.88	0.01	38.36	54.94	-16.58	Average
2	0.170	40.24	0.20	0.00	9.88	0.01	50.33	64.94	-14.61	QP
3	0.214	22.92	0.20	0.00	9.88	0.03	33.03	53.05	-20.02	Average
4	0.214	35.26	0.20	0.00	9.88	0.03	45.37	63.05	-17.68	QP
5	0.426	15.31	0.20	0.00	9.88	0.03	25.42	47.33	-21.91	Average
6	0.466	23.17	0.20	0.00	9.88	0.03	33.28	56.58	-23.30	QP
7	1.367	9.88	0.20	0.00	9.88	0.12	20.08	46.00	-25.92	Average
8	1.367	16.73	0.20	0.00	9.88	0.12	26.93	56.00	-29.07	QP
9	7.100	16.11	0.20	0.00	9.90	0.10	26.31	50.00	-23.69	Average
10	7.175	25.25	0.20	0.00	9.90	0.10	35.45	60.00	-24.55	QP
11	12.988	18.91	0.26	0.00	9.92	0.11	29.20	60.00	-30.80	QP
12	13.337	11.77	0.27	0.00	9.92	0.11	22.07	50.00	-27.93	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Environmental variable collector for logistics	Product model:	ZT-28SE
Test by:	Alan Chen	Test mode:	Charging and Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



	Read	LISN	Aux	Aux2	Cable	Limit	Over	
Freq	Level	Factor	Factor	Factor	Loss	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dB	dB	dB	dBuV	dB	
1	0.150	27.48	0.20	0.00	9.88	0.01	37.57	56.00 -18.43 Average
2	0.150	40.28	0.20	0.00	9.88	0.01	50.37	66.00 -15.63 QP
3	0.170	26.74	0.20	0.00	9.88	0.01	36.83	54.94 -18.11 Average
4	0.178	38.36	0.20	0.00	9.88	0.01	48.45	64.59 -16.14 QP
5	0.471	14.11	0.20	0.00	9.88	0.03	24.22	46.49 -22.27 Average
6	0.471	25.55	0.20	0.00	9.88	0.03	35.66	56.49 -20.83 QP
7	1.153	18.11	0.22	0.00	9.88	0.08	28.29	56.00 -27.71 QP
8	1.418	10.31	0.25	0.00	9.88	0.13	20.57	46.00 -25.43 Average
9	6.627	26.30	0.30	0.00	9.90	0.10	36.60	60.00 -23.40 QP
10	6.951	17.46	0.30	0.00	9.90	0.10	27.76	50.00 -22.24 Average
11	13.197	19.34	0.40	0.00	9.92	0.11	29.77	60.00 -30.23 QP
12	13.623	12.55	0.40	0.00	9.93	0.12	23.00	50.00 -27.00 Average

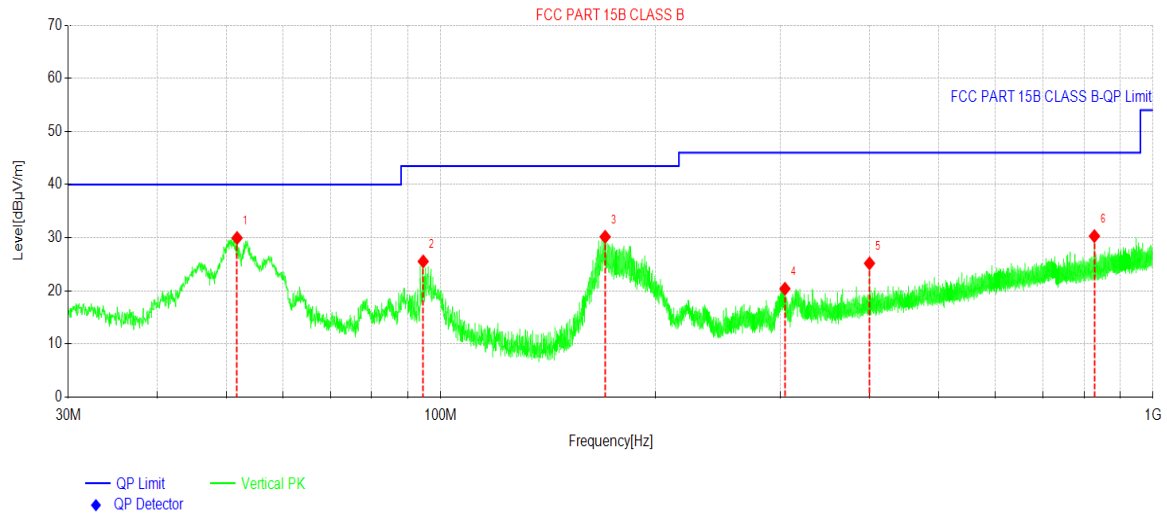
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

Product Name:	Environmental variable collector for logistics	Product Model:	ZT-28SE
Test By:	Kiran Zeng	Test mode:	Charging and Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



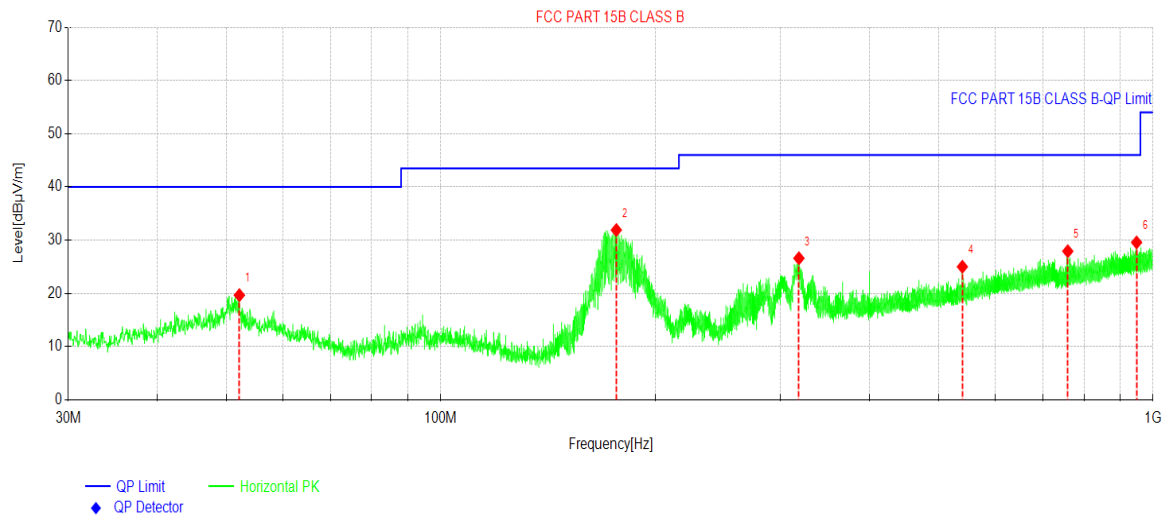
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	51.7776	42.74	-12.79	29.95	40.00	10.05	PK	Vertical
2	94.5082	41.04	-15.50	25.54	43.50	17.96	PK	Vertical
3	170.1720	47.67	-17.50	30.17	43.50	13.33	PK	Vertical
4	304.2812	33.38	-12.99	20.39	46.00	25.61	PK	Vertical
5	399.9280	35.94	-10.76	25.18	46.00	20.82	PK	Vertical
6	827.4284	34.04	-3.74	30.30	46.00	15.70	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Environmental variable collector for logistics	Product Model:	ZT-28SE
Test By:	Kiran Zeng	Test mode:	Charging and Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

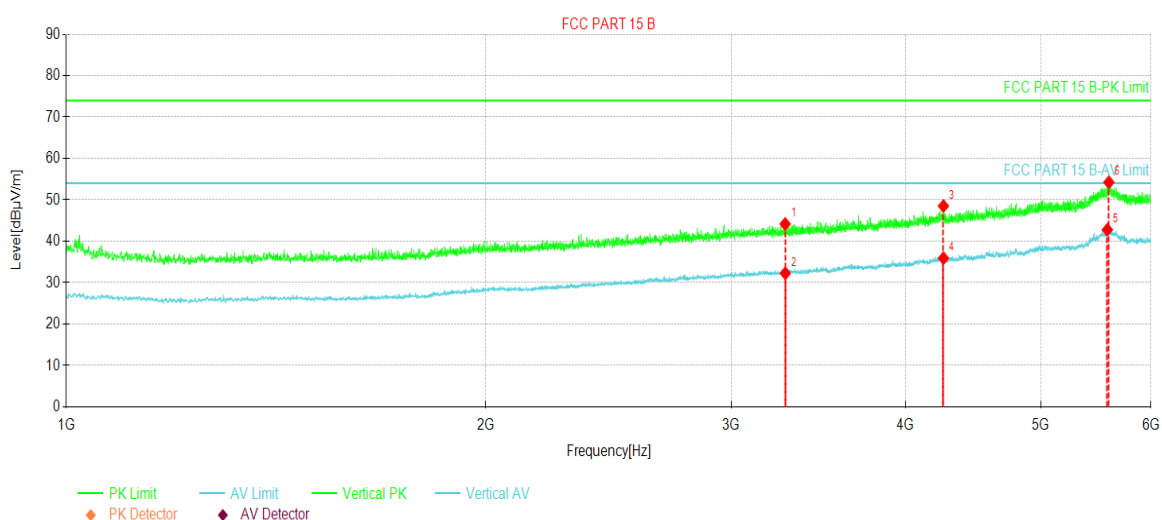
NO.	Freq. [MHz]	Reading[dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	52.1656	32.48	-12.81	19.67	40.00	20.33	PK	Horizontal
2	176.4288	49.13	-17.23	31.90	43.50	11.60	PK	Horizontal
3	318.3469	39.38	-12.78	26.60	46.00	19.40	PK	Horizontal
4	540.0030	33.23	-8.22	25.01	46.00	20.99	PK	Horizontal
5	759.2340	32.30	-4.38	27.92	46.00	18.08	PK	Horizontal
6	948.3934	31.88	-2.31	29.57	46.00	16.43	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

Product Name:	Environmental variable collector for logistics	Product Model:	ZT-28SE
Test By:	Kiran Zeng	Test mode:	Charging and Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		

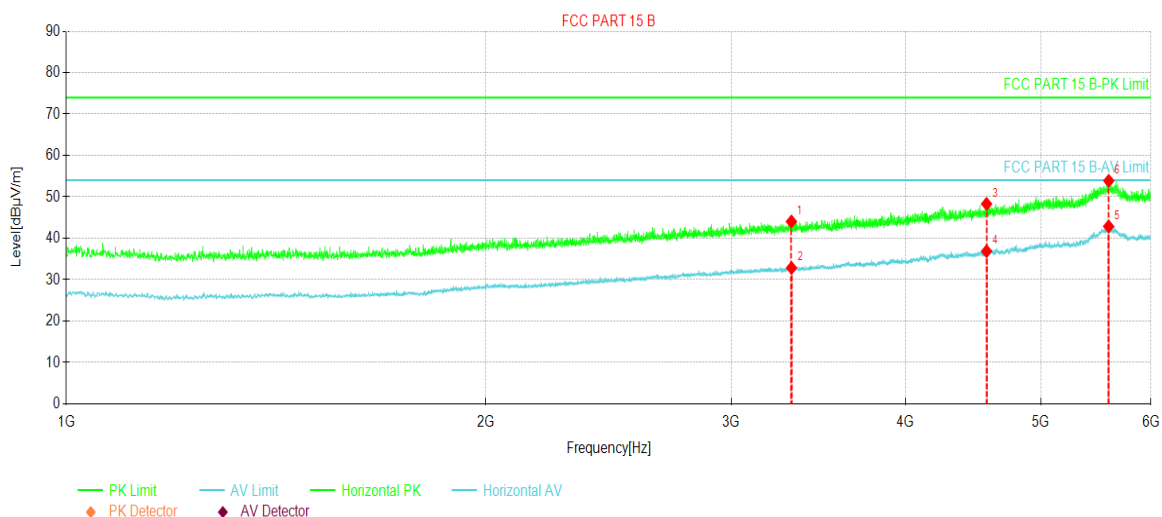


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	3279.0349	60.71	44.17	-16.54	74.00	29.83	PK	Vertical
2	3279.6600	48.81	32.27	-16.54	54.00	21.73	AV	Vertical
3	4258.5323	61.05	48.51	-12.54	74.00	25.49	PK	Vertical
4	4258.5323	48.46	35.92	-12.54	54.00	18.08	AV	Vertical
5	5582.4478	47.45	42.79	-4.66	54.00	11.21	AV	Vertical
6	5596.8246	58.65	54.24	-4.41	74.00	19.76	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Environmental variable collector for logistics	Product Model:	ZT-28SE
Test By:	Kiran Zeng	Test mode:	Charging and Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	3312.7891	60.50	44.05	-16.45	74.00	29.95	PK	Horizontal
2	3313.4142	49.30	32.85	-16.45	54.00	21.15	AV	Horizontal
3	4572.9466	59.47	48.30	-11.17	74.00	25.70	PK	Horizontal
4	4572.9466	48.04	36.87	-11.17	54.00	17.13	AV	Horizontal
5	5594.3243	47.31	42.86	-4.45	54.00	11.14	AV	Horizontal
6	5595.5744	58.31	53.88	-4.43	74.00	20.12	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

-----End of report-----