

FCC EMC Test Report

Report No.: JYTSZ-R01-2500334

Applicant: CoreHW Semiconductor Oy

Address of Applicant: Visiokatu 1, 33720 Tampere, Finland

Equipment Under Test (EUT)

Product Name: CoreLocator

Model No.: CHW-LOC4000

Trade Mark: CoreHW

FCC ID: 2BPQS-LOC4000

Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 22 May, 2025

Date of Test: 23 May, to 16 Jul., 2025

Date of report Issued: 16 Jul., 2025

Test Result: PASS

Project by:	<u>Liya Ding</u>	Date:	<u>16 Jul., 2025</u>
	Project Engineer		
Reviewed by:	<u>Detong Zhang</u>	Date:	<u>16 Jul., 2025</u>
	Senior Engineer		
Approved by:	<u>James Wei</u>	Date:	<u>16 Jul., 2025</u>
	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	16 Jul., 2025	Original

2 Contents

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3 General Information

3.1 Client Information

Applicant:	CoreHW Semiconductor Oy
Address:	Visiokatu 1, 33720 Tampere, Finland
Manufacturer/Factory:	CoreHW Semiconductor Oy
Address:	Visiokatu 1, 33720 Tampere, Finland

3.2 General Description of E.U.T.

Product Name:	CoreLocator
Model No.:	CHW-LOC4000
Power supply:	DC 5V by USB-C
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Operating Mode	Detail Description
Working mode	Keep the EUT in Power ON + LAN Link mode (Worst case)
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
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
Raspberry Pi	AC ADAPTER	KSA-15E-051300HE	/	DoC
R&S	Simulated Station	CMW270	102335	DoC
TP-LINK	Router	TL-WVR300	/	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
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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

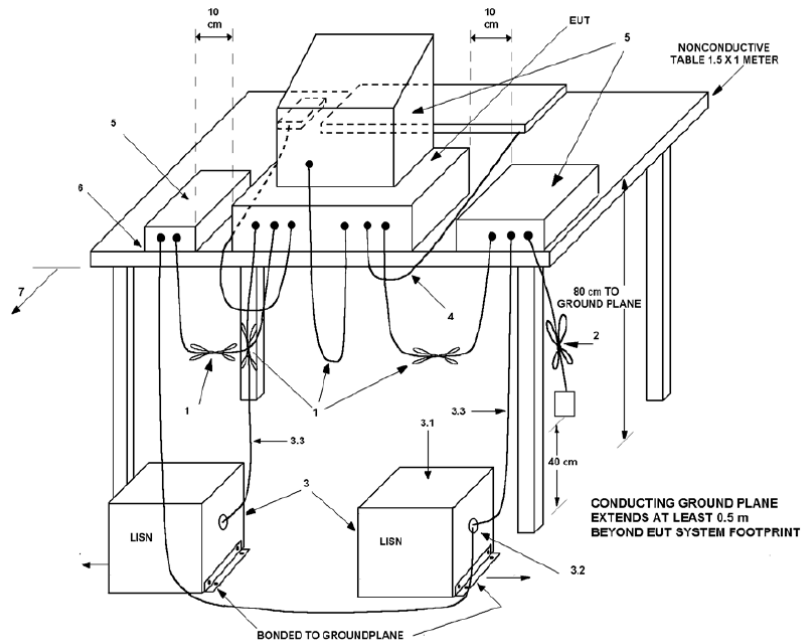
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-03-2025	01-02-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-03-2025	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
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-15-2025	01-14-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	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	05-08-2025	05-07-2026
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	01-15-2025	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

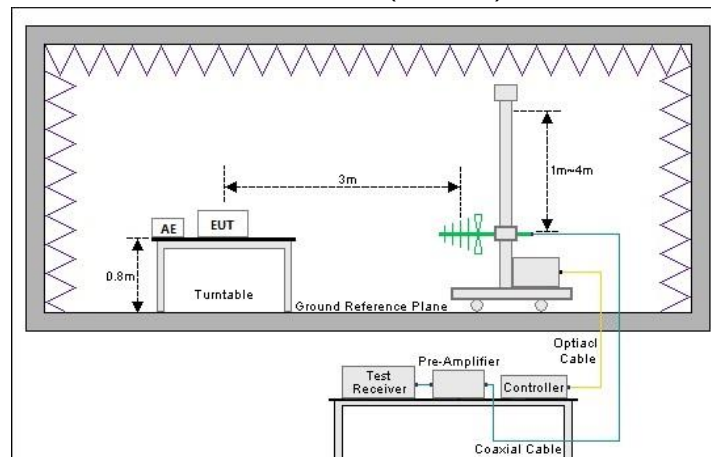
1) Conducted emission measurement:

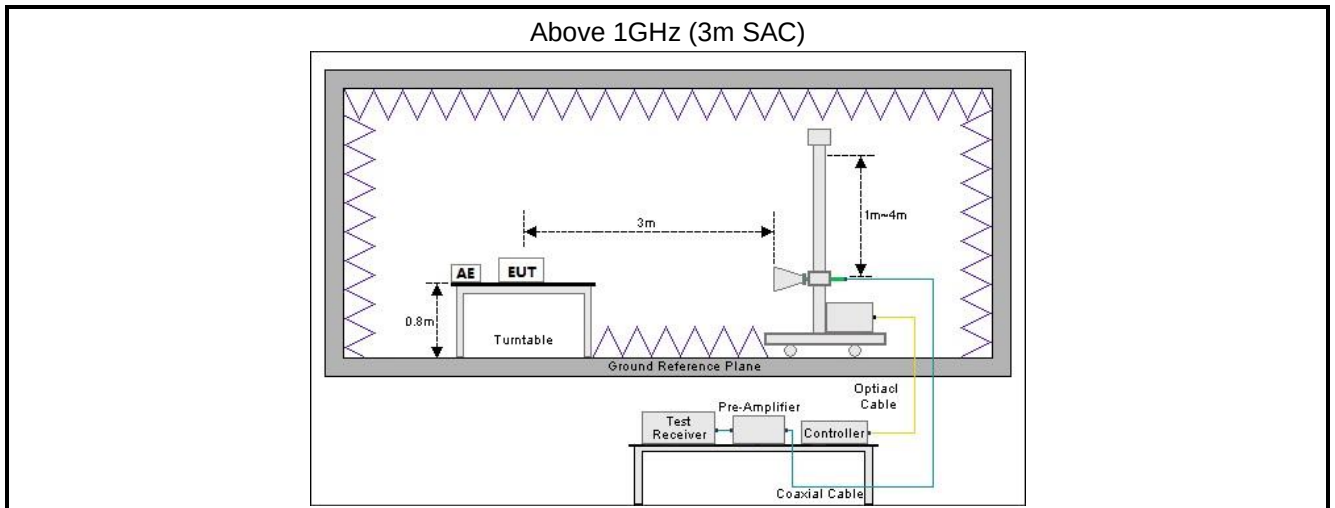


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

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

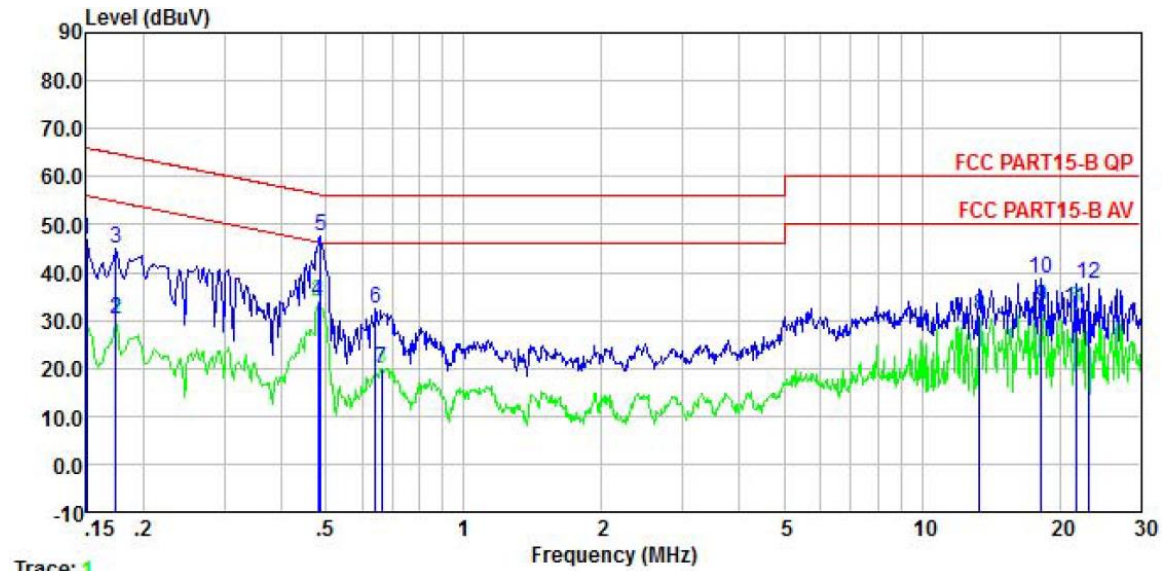
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.			
Test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

Product name:	CoreLocator	Product model:	CHW-LOC4000
Test by:	Kiran Zeng	Test mode:	Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



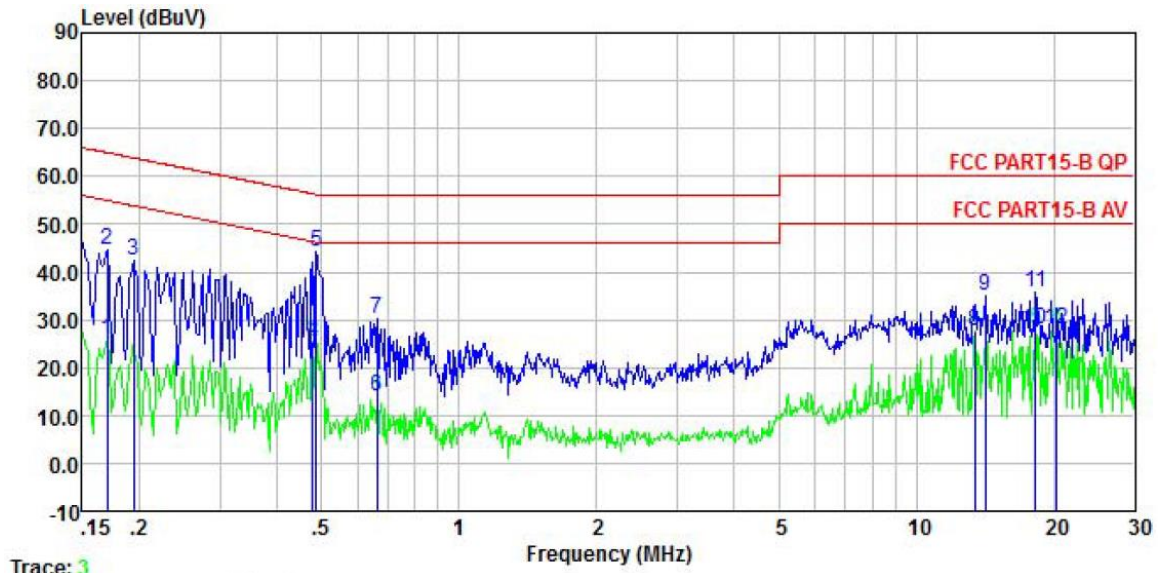
Trace: 1

	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	0.150	26.57	10.20	0.00	9.88	0.01	46.66	66.00	-19.34	QP
2	0.174	10.30	10.15	0.00	9.88	0.01	30.34	54.77	-24.43	Average
3	0.174	24.97	10.15	0.00	9.88	0.01	45.01	64.77	-19.76	QP
4	0.481	14.00	10.15	0.00	9.88	0.03	34.06	46.32	-12.26	Average
5	0.486	27.51	10.15	0.00	9.88	0.03	47.57	56.23	-8.66	QP
6	0.641	12.29	10.18	0.00	9.88	0.02	32.37	56.00	-23.63	QP
7	0.661	-0.04	10.17	0.00	9.88	0.03	20.04	46.00	-25.96	Average
8	13.337	10.44	10.65	0.00	9.92	0.11	31.12	50.00	-18.88	Average
9	18.232	12.30	10.53	0.00	9.95	0.15	32.93	50.00	-17.07	Average
10	18.232	17.95	10.53	0.00	9.95	0.15	38.58	60.00	-21.42	QP
11	21.715	11.79	10.38	0.00	9.98	0.16	32.31	50.00	-17.69	Average
12	23.140	17.25	10.36	0.00	9.99	0.17	37.77	60.00	-22.23	QP

Remark:

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

Product name:	CoreLocator	Product model:	CHW-LOC4000
Test by:	Kiran Zeng	Test mode:	Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
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	5.72	10.20	0.00	9.88	0.01	25.81	54.94	-29.13	Average
2	0.170	24.40	10.20	0.00	9.88	0.01	44.49	64.94	-20.45	QP
3	0.194	22.15	10.20	0.00	9.88	0.03	42.26	63.84	-21.58	QP
4	0.479	5.18	10.19	0.00	9.88	0.03	25.28	46.36	-21.08	Average
5	0.486	24.07	10.20	0.00	9.88	0.03	44.18	56.23	-12.05	QP
6	0.661	-6.11	10.30	0.00	9.88	0.03	14.10	46.00	-31.90	Average
7	0.661	9.87	10.30	0.00	9.88	0.03	30.08	56.00	-25.92	QP
8	13.408	6.95	10.52	0.00	9.92	0.11	27.50	50.00	-22.50	Average
9	14.138	14.47	10.55	0.00	9.93	0.12	35.07	60.00	-24.93	QP
10	18.232	7.16	10.60	0.00	9.95	0.15	27.86	50.00	-22.14	Average
11	18.232	15.05	10.60	0.00	9.95	0.15	35.75	60.00	-24.25	QP
12	20.270	7.24	10.60	0.00	9.96	0.19	27.99	50.00	-22.01	Average

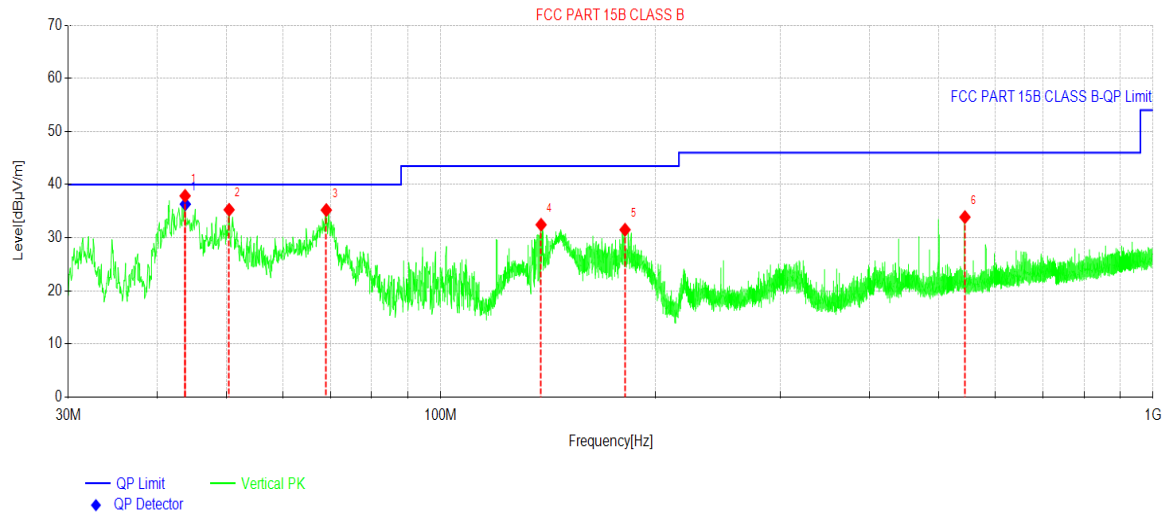
Remark:

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

5.3 Radiated Emission

Below 1GHz:

Product Name:	CoreLocator	Product Model:	CHW-LOC4000
Test By:	Kiran Zeng	Test mode:	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	43.7747	50.43	-12.56	37.87	40.00	2.13	PK	Vertical
2	50.4680	47.67	-12.41	35.26	40.00	4.74	PK	Vertical
3	69.0930	51.39	-16.18	35.21	40.00	4.79	PK	Vertical
4	138.354	50.38	-17.94	32.44	43.50	11.06	PK	Vertical
5	181.473	48.04	-16.54	31.50	43.50	12.00	PK	Vertical
6	544.513	41.74	-7.86	33.88	46.00	12.12	PK	Vertical

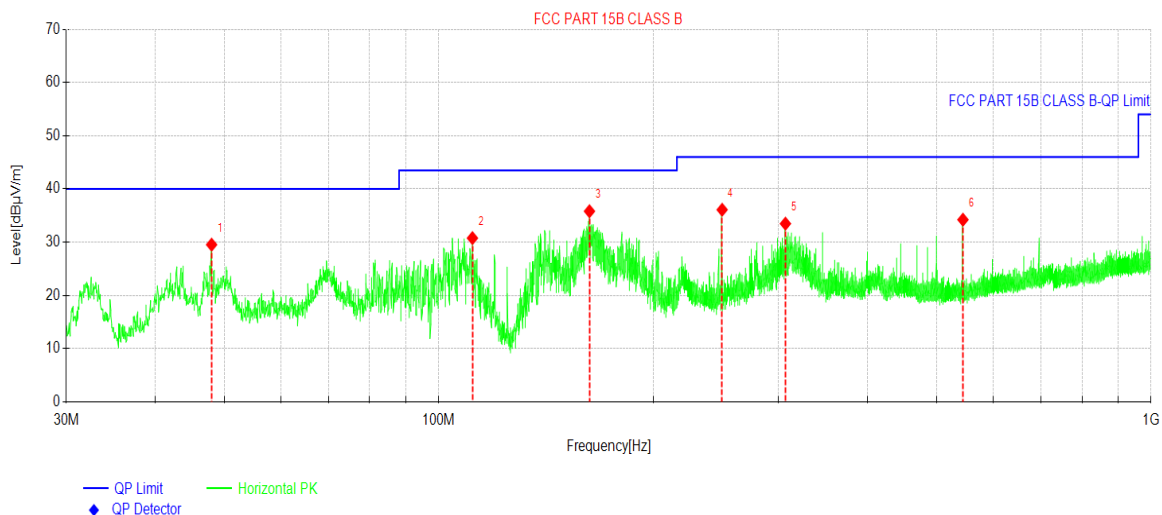
Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Angle [°]	Verdict
1	43.8046	48.88	-12.56	36.32	40.00	3.68	136.8	PASS

Remark:

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

Product Name:	CoreLocator	Product Model:	CHW-LOC4000
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

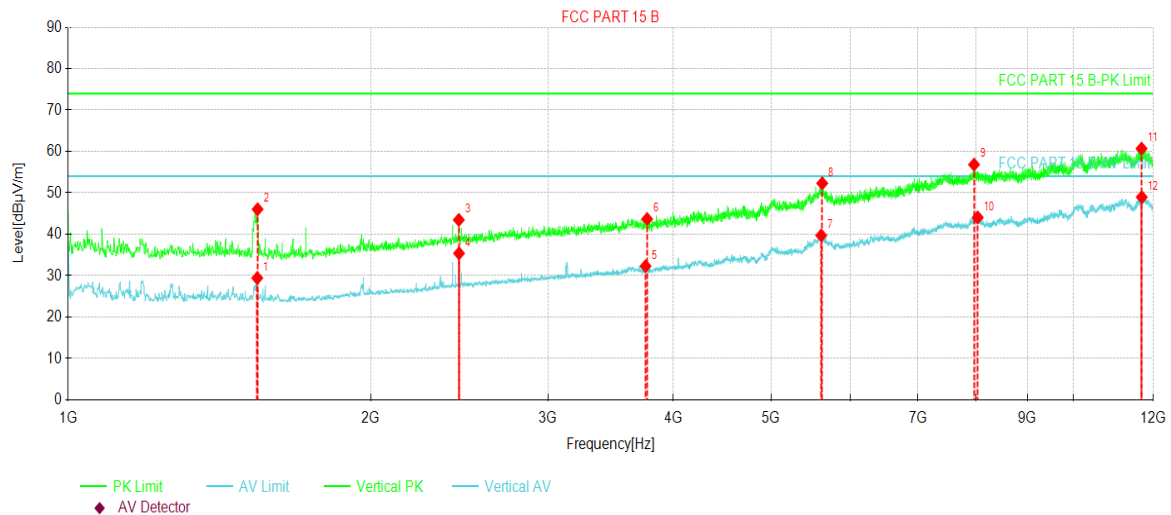
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	47.9944	41.95	-12.42	29.53	40.00	10.47	PK	Horizontal
2	111.532	45.47	-14.71	30.76	43.50	12.74	PK	Horizontal
3	162.799	53.14	-17.33	35.81	43.50	7.69	PK	Horizontal
4	250.007	49.68	-13.59	36.09	46.00	9.91	PK	Horizontal
5	306.754	46.13	-12.65	33.48	46.00	12.52	PK	Horizontal
6	544.465	42.08	-7.86	34.22	46.00	11.78	PK	Horizontal

Remark:

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

Above 1GHz:

Product Name:	CoreLocator	Product Model:	CHW-LOC4000
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	1000 MHz ~ 12000 MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



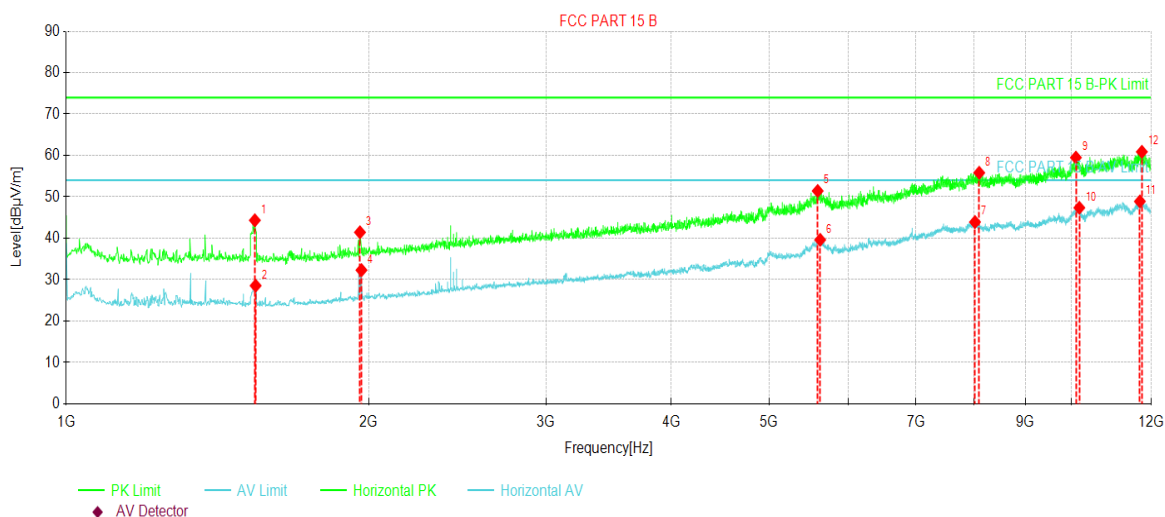
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1541.75	51.78	29.42	-22.36	54.00	24.58	AV	Vertical
2	1543.12	68.40	46.04	-22.36	74.00	27.96	PK	Vertical
3	2446.50	62.20	43.47	-18.73	74.00	30.53	PK	Vertical
4	2447.87	54.11	35.39	-18.72	54.00	18.61	AV	Vertical
5	3752.75	46.83	32.31	-14.52	54.00	21.69	AV	Vertical
6	3766.50	58.18	43.68	-14.50	74.00	30.32	PK	Vertical
7	5611.75	44.40	39.72	-4.68	54.00	14.28	AV	Vertical
8	5625.50	57.12	52.31	-4.81	74.00	21.69	PK	Vertical
9	7964.37	57.02	56.83	-0.19	74.00	17.17	PK	Vertical
10	8031.75	44.22	44.06	-0.16	54.00	9.94	AV	Vertical
11	11689.2	55.09	60.69	5.60	74.00	13.31	PK	Vertical
12	11696.1	43.35	48.97	5.62	54.00	5.03	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 30GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Product Name:	CoreLocator	Product Model:	CHW-LOC4000
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	1000 MHz ~ 12000 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	1540.37	66.70	44.34	-22.36	74.00	29.66	PK	Horizontal
2	1543.12	50.91	28.55	-22.36	54.00	25.45	AV	Horizontal
3	1959.75	62.31	41.44	-20.87	74.00	32.56	PK	Horizontal
4	1966.62	53.13	32.30	-20.83	54.00	21.70	AV	Horizontal
5	5592.50	56.13	51.43	-4.70	74.00	22.57	PK	Horizontal
6	5624.12	44.42	39.62	-4.80	54.00	14.38	AV	Horizontal
7	8018.00	44.07	43.92	-0.15	54.00	10.08	AV	Horizontal
8	8096.37	56.03	55.82	-0.21	74.00	18.18	PK	Horizontal
9	10103.8	55.83	59.49	3.66	74.00	14.51	PK	Horizontal
10	10183.6	43.25	47.36	4.11	54.00	6.64	AV	Horizontal
11	11698.8	43.27	48.90	5.63	54.00	5.10	AV	Horizontal
12	11752.5	55.12	60.88	5.76	74.00	13.12	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. Test Frequency up to 30GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

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