

FCC EMC Test Report

Report No.: JYTSZ-R12-2200248

Applicant: Airbits AB

Address of Applicant: c/o Box 3686, Regeringsgatan 65, 103 59 Stockholm, Sweden

Equipment Under Test (EUT)

Product Name: Wingbits GeoSigner Dongle

Model No.: GeoSigner

Trade Mark: Wingbits

FCC ID: 2BKJ9-GEOSIGNER

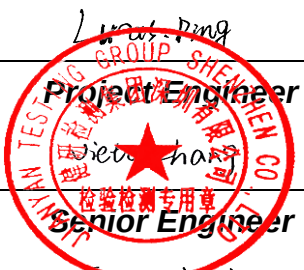
Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 26 Dec., 2024

Date of Test: 27 Dec., 2024 to 02 Jan., 2025

Date of report Issued: 03 Jan., 2025

Test Result: PASS

Project by:	<u>Liwei ping</u>	Date:	<u>03 Jan., 2025</u>
			
	Project Engineer		
Reviewed by:	<u>Liwei ping</u>	Date:	<u>03 Jan., 2025</u>
	Senior Engineer		
Approved by:	<u>Janet Wei</u>	Date:	<u>03 Jan., 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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

1 Version

Version No.	Date	Description
00	03 Jan., 2025	Original

2 Contents

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3 General Information

3.1 Client Information

Applicant:	Airbits AB
Address:	c/o Box 3686, Regeringsgatan 65, 103 59 Stockholm, Sweden
Manufacturer/Factory:	Airbits AB
Address:	c/o Box 3686, Regeringsgatan 65, 103 59 Stockholm, Sweden

3.2 General Description of E.U.T.

Product Name:	Wingbits GeoSigner Dongle
Model No.:	GeoSigner
Power Supply:	Input: 5.0V 0.5A (USB of computer or PS1 external adapter)
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 Working 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
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	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)	3.57 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	3.14 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

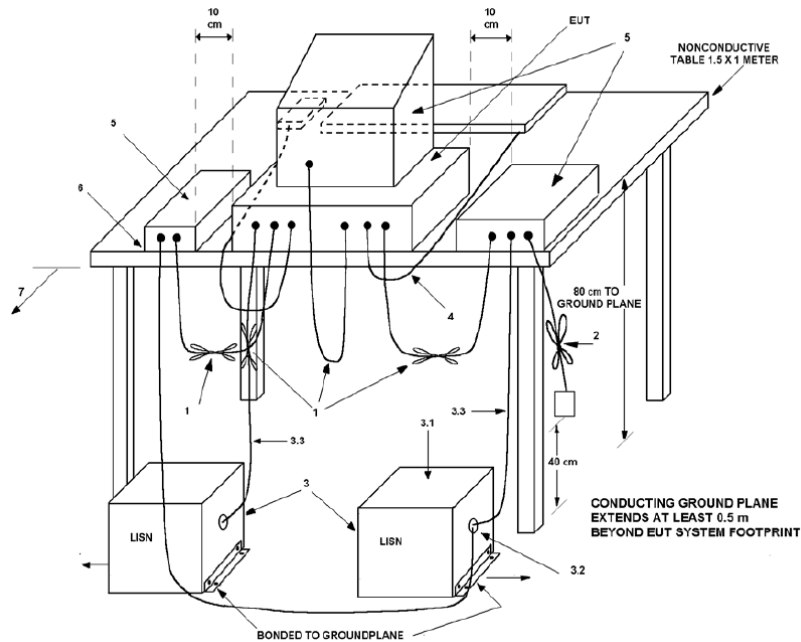
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	01-09-2024	01-08-2025
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	01-05-2024	01-04-2025
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-27-2023	12-26-2024
				12-16-2024	12-15-2025
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-27-2023	12-26-2024
				12-16-2024	12-15-2025
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-27-2023	12-26-2024
				12-16-2024	12-15-2025
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-27-2023	12-26-2024
				12-16-2024	12-15-2025
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-17-2024	01-16-2025
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-17-2024	01-16-2025
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	12-27-2023	12-26-2024
				12-16-2024	12-15-2025
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	12-27-2023	12-26-2024
				12-16-2024	12-15-2025
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-17-2024	01-16-2025
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

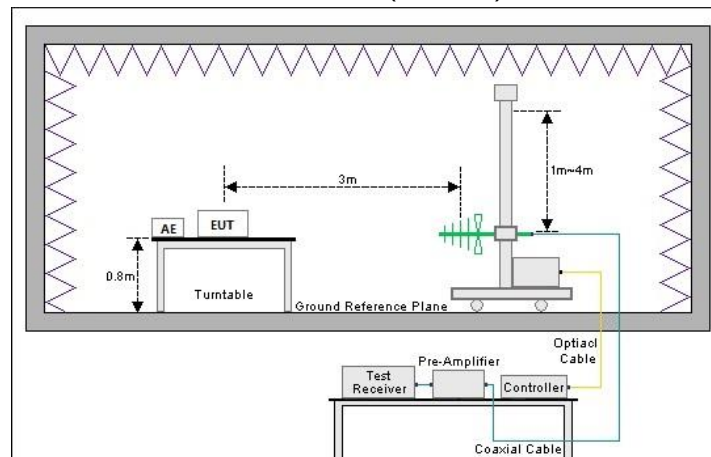
1) Conducted emission measurement:

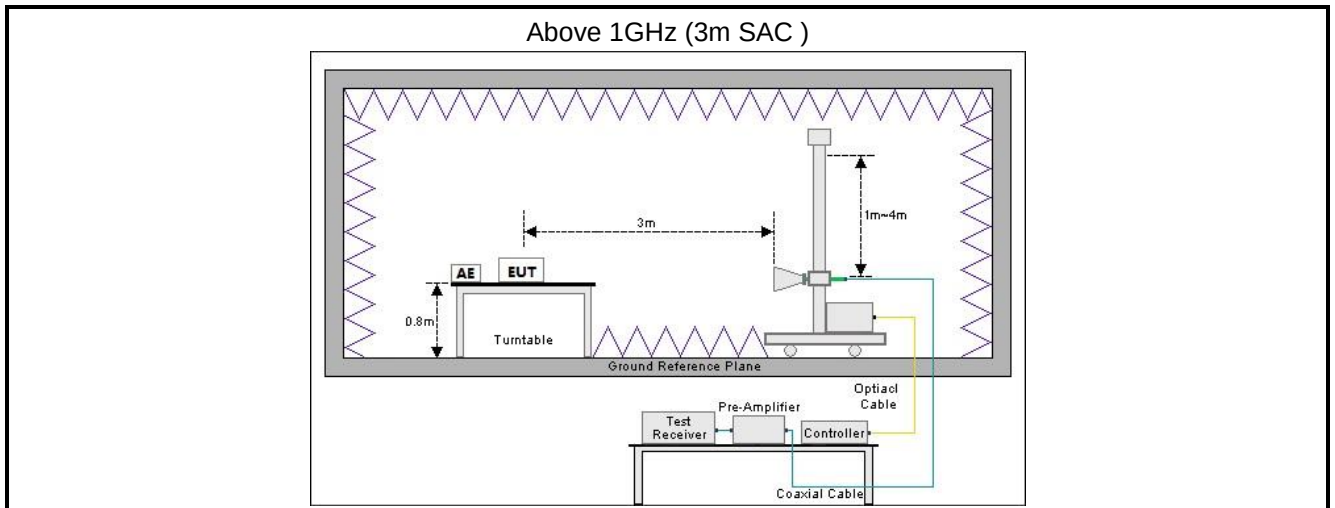


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

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

This report was amended on FCC ID: 2AC7Z-ESPC3MINI1 follow module applicant is C2PC. The original report: R2103A0270-E1V1, issued by TA Technology (Shanghai) Co., Ltd. The differences between them as below:
Update product name and trade mark, update model, so need to retest.

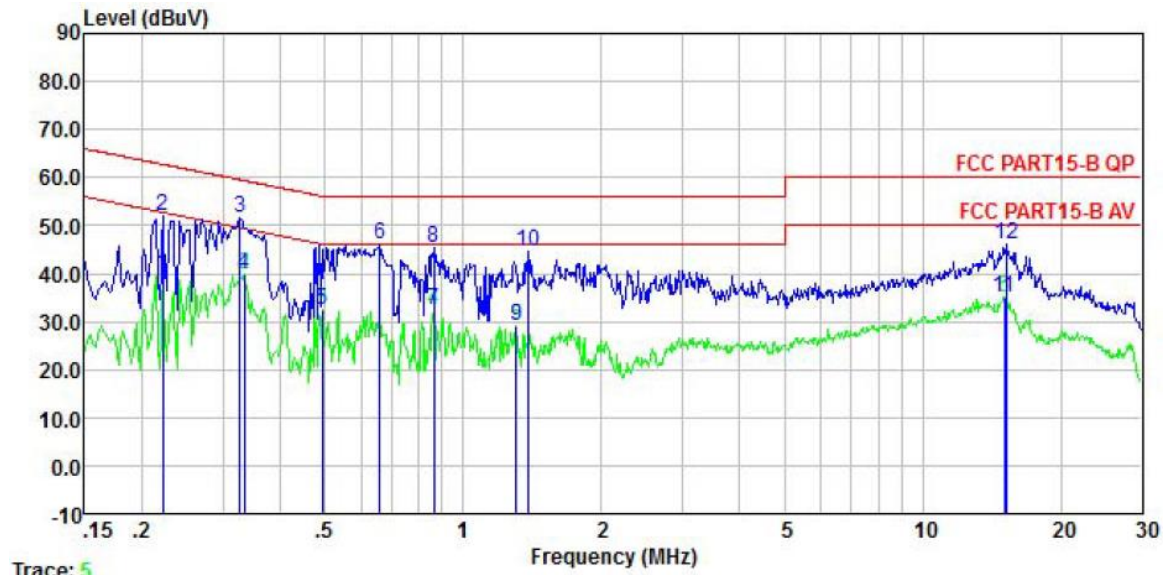
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.			
Test 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:	Wingbits GeoSigner Dongle	Product model:	GeoSigner
Test by:	Alan Chen	Test mode:	Working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



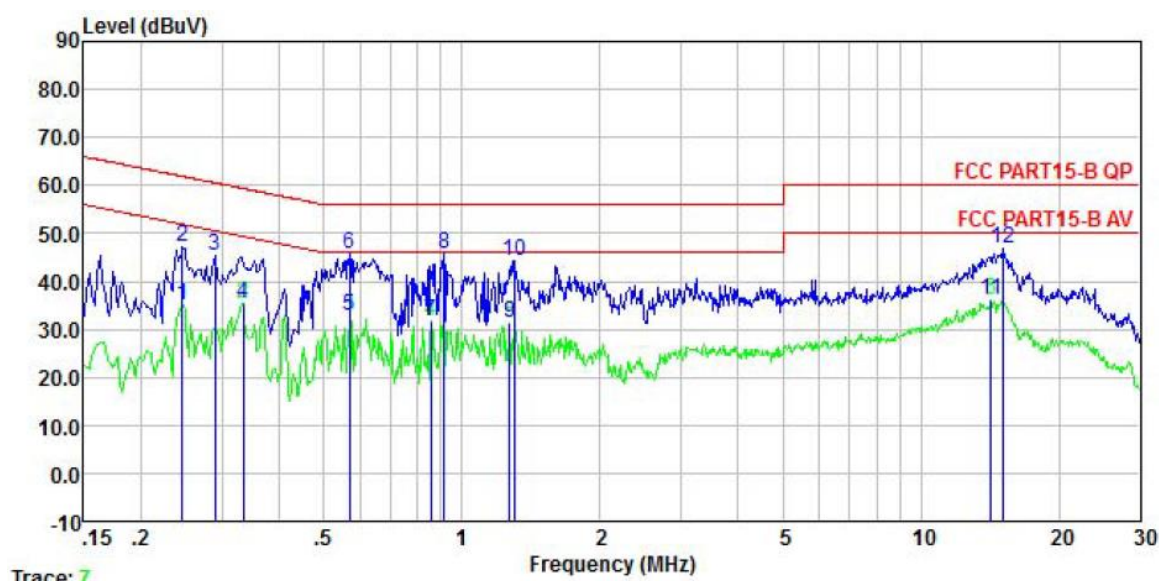
Trace: 5

	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	0.222	29.55	0.20	0.00	9.88	0.03	39.66	52.74	-13.08	Average
2	0.222	41.83	0.20	0.00	9.88	0.03	51.94	62.74	-10.80	QP
3	0.327	41.63	0.20	0.00	9.88	0.02	51.73	59.53	-7.80	QP
4	0.334	29.85	0.20	0.00	9.88	0.02	39.95	49.35	-9.40	Average
5	0.494	22.46	0.20	0.00	9.88	0.03	32.57	46.10	-13.53	Average
6	0.658	36.11	0.20	0.00	9.88	0.03	46.22	56.00	-9.78	QP
7	0.862	22.26	0.20	0.00	9.88	0.04	32.38	46.00	-13.62	Average
8	0.862	35.32	0.20	0.00	9.88	0.04	45.44	56.00	-10.56	QP
9	1.303	18.98	0.20	0.00	9.88	0.11	29.17	46.00	-16.83	Average
10	1.381	34.34	0.20	0.00	9.88	0.13	44.55	56.00	-11.45	QP
11	15.066	24.60	0.30	0.00	9.93	0.14	34.97	50.00	-15.03	Average
12	15.226	35.55	0.30	0.00	9.93	0.14	45.92	60.00	-14.08	QP

Remark:

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

Product name:	Wingbits GeoSigner Dongle	Product model:	GeoSigner
Test by:	Alan Chen	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	0.246	25.07	0.20	0.00	9.88	0.01	35.16	51.91	-16.75	Average
2	0.246	36.95	0.20	0.00	9.88	0.01	47.04	61.91	-14.87	QP
3	0.289	35.25	0.20	0.00	9.88	0.03	45.36	60.54	-15.18	QP
4	0.334	25.42	0.20	0.00	9.88	0.02	35.52	49.35	-13.83	Average
5	0.570	22.71	0.20	0.00	9.88	0.02	32.81	46.00	-13.19	Average
6	0.570	35.45	0.20	0.00	9.88	0.02	45.55	56.00	-10.45	QP
7	0.857	21.50	0.20	0.00	9.88	0.04	31.62	46.00	-14.38	Average
8	0.914	35.64	0.20	0.00	9.88	0.04	45.76	56.00	-10.24	QP
9	1.269	20.98	0.23	0.00	9.88	0.10	31.19	46.00	-14.81	Average
10	1.303	33.96	0.24	0.00	9.88	0.11	44.19	56.00	-11.81	QP
11	14.213	25.78	0.40	0.00	9.93	0.12	36.23	50.00	-13.77	Average
12	15.146	36.24	0.40	0.00	9.93	0.14	46.71	60.00	-13.29	QP

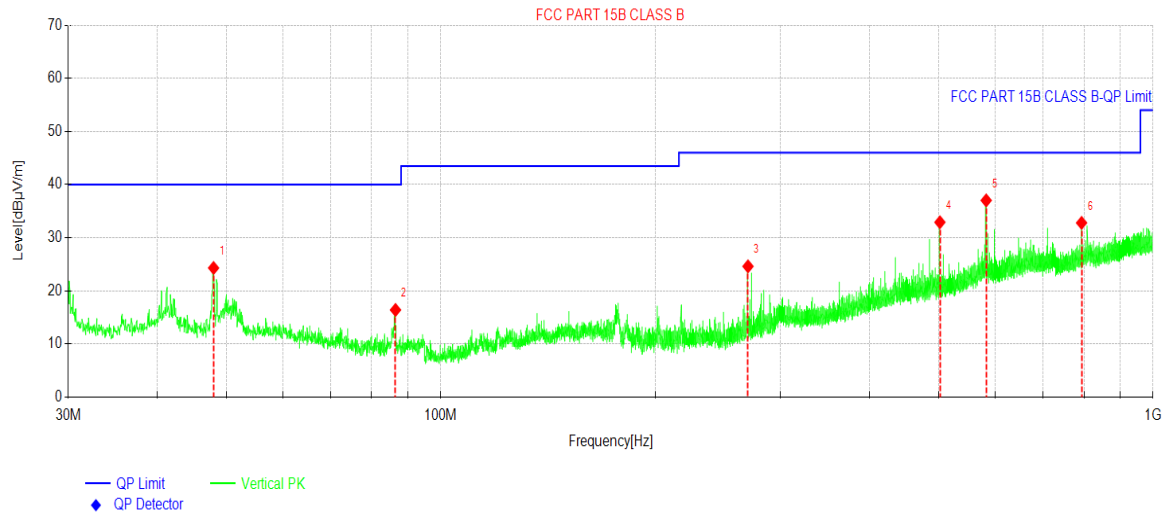
Remark:

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

5.3 Radiated Emission

Below 1GHz:

Product Name:	Wingbits GeoSigner Dongle	Product Model:	GeoSigner
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 5V		



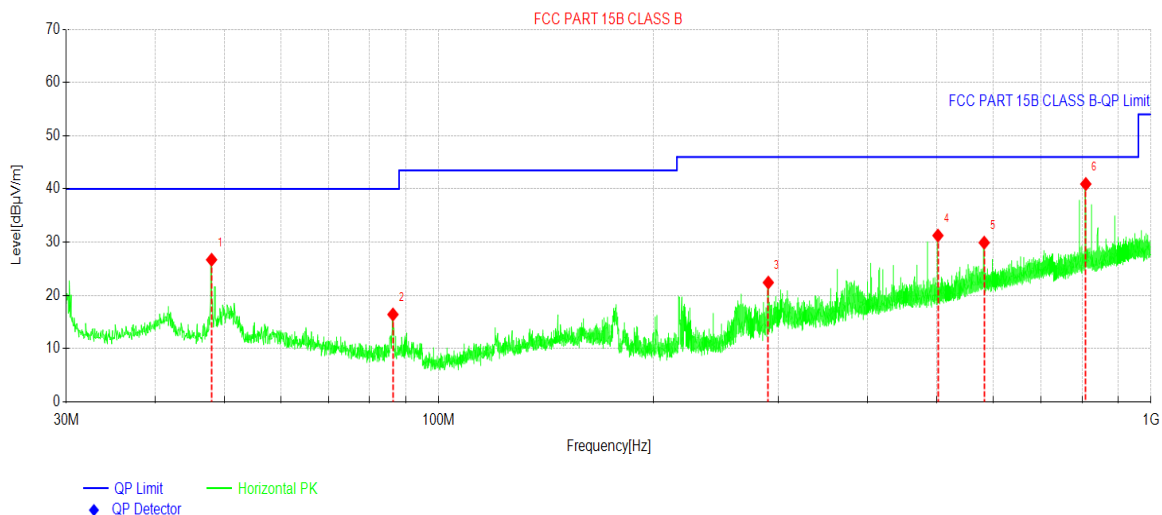
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	47.9944	38.29	-13.98	24.31	40.00	15.69	PK	Vertical
2	86.4083	34.79	-18.38	16.41	40.00	23.59	PK	Vertical
3	270.038	39.35	-14.74	24.61	46.00	21.39	PK	Vertical
4	502.171	40.99	-8.08	32.91	46.00	13.09	PK	Vertical
5	583.218	43.15	-6.13	37.02	46.00	8.98	PK	Vertical
6	793.816	34.09	-1.29	32.80	46.00	13.20	PK	Vertical

Remark:

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

Product Name:	Wingbits GeoSigner Dongle	Product Model:	GeoSigner
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 5V		



Suspected Data List

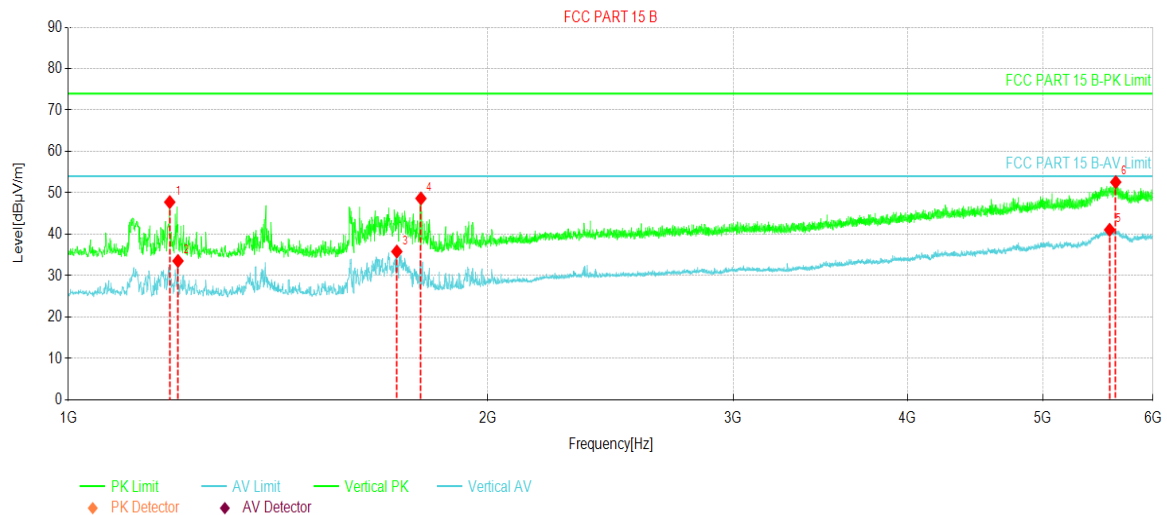
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	47.9944	40.68	-13.98	26.70	40.00	13.30	PK	Horizontal
2	86.2628	34.81	-18.39	16.42	40.00	23.58	PK	Horizontal
3	290.264	36.11	-13.70	22.41	46.00	23.59	PK	Horizontal
4	502.219	39.33	-8.08	31.25	46.00	14.75	PK	Horizontal
5	583.218	36.04	-6.13	29.91	46.00	16.09	PK	Horizontal
6	810.016	41.92	-0.99	40.93	46.00	5.07	PK	Horizontal

Remark:

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

Above 1GHz:

Product Name:	Wingbits GeoSigner Dongle	Product Model:	GeoSigner
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	DC 5V		



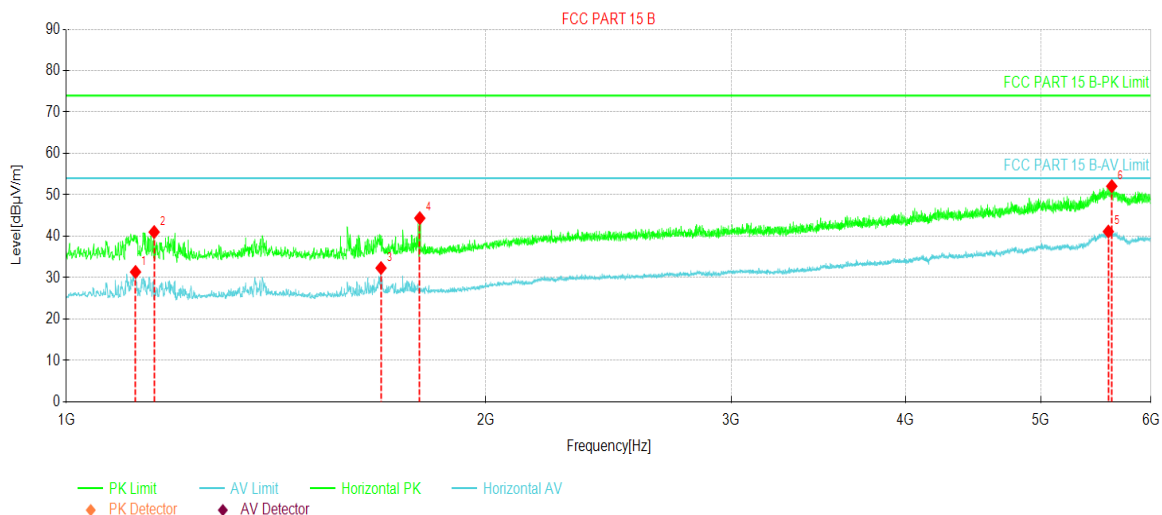
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1182.52	71.58	47.77	-23.81	74.00	26.23	PK	Vertical
2	1198.77	57.43	33.55	-23.88	54.00	20.45	AV	Vertical
3	1720.71	58.29	35.82	-22.47	54.00	18.18	AV	Vertical
4	1790.72	70.91	48.65	-22.26	74.00	25.35	PK	Vertical
5	5585.57	46.53	41.07	-5.46	54.00	12.93	AV	Vertical
6	5641.83	57.96	52.60	-5.36	74.00	21.40	PK	Vertical

Remark:

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

Product Name:	Wingbits GeoSigner Dongle	Product Model:	GeoSigner
Test By:	Kiran Zeng	Test mode:	Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	DC 5V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	1121.26	54.77	31.37	-23.40	54.00	22.63	AV	Horizontal
2	1156.26	64.73	41.02	-23.71	74.00	32.98	PK	Horizontal
3	1681.96	54.90	32.33	-22.57	54.00	21.67	AV	Horizontal
4	1793.22	66.62	44.37	-22.25	74.00	29.63	PK	Horizontal
5	5591.82	46.50	41.14	-5.36	54.00	12.86	AV	Horizontal
6	5623.70	57.39	52.09	-5.30	74.00	21.91	PK	Horizontal

Remark:

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

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