

RF Test Report

(2.4G Wi-Fi)

Report No.: JYTSZ-R12-2600363

Applicant: Earda Technologies Co., Ltd

Address of Applicant: Block A, LianFeng Creative Industry Park, 2 JiSheng Road., HuangGe Town, NanSha District, Guangzhou, PRC

Equipment Under Test (EUT)

Product Name: WIFI & BT Module

Model No.: EWN-8822CSE2AA

Trade Mark: N/A

FCC ID: 2AMM6-EWN8822CSE2AA

Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 02 Jun., 2026

Date of Test: 03 Jun., to 10 Jul., 2026

Date of Report Issued: 10 Jul., 2026

Test Result: PASS

Project by: _____

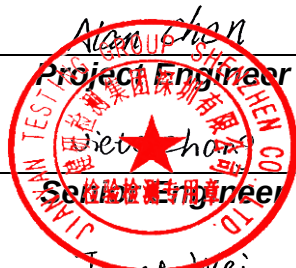
Date: 10 Jul., 2026

Reviewed by: _____

Date: 10 Jul., 2026

Approved by: _____

Date: 10 Jul., 2026



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	30 Jun., 2026	Original
01	10 Jul., 2026	Update Page 4-16

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3 General Information

3.1 Client Information

Applicant:	Earda Technologies Co., Ltd
Address:	Block A, LianFeng Creative Industry Park, 2 JiSheng Road., HuangGe Town, NanSha District, Guangzhou, PRC
Manufacturer/Factory:	Earda Technologies Co., Ltd
Address:	Block A, LianFeng Creative Industry Park, 2 JiSheng Road., HuangGe Town, NanSha District, Guangzhou, PRC

3.2 General Description of E.U.T.

Product Name:	WIFI & BT Module
Model No.:	EWN-8822CSE2AA
Operation Frequency:	2412 MHz - 2462 MHz 2422 MHz - 2452 MHz
Channel Numbers:	11 7
Channel Separation:	5MHz
Modulation Technology: (IEEE 802.11b)	DSSS-DBPSK, DQPSK, CCK
Modulation Technology: (IEEE 802.11g/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Antenna Type:	PIFA Antenna
Antenna Gain:	ANT 1~ANT2: 3.98 dBi (declare by applicant)
Antenna Transmit Mode:	MIMO (2TX, 2RX)
Power Supply:	DC 5V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Disclaimer

Disclaimer:
For the information or data provided by the client in this report, the relevant results or conclusions of this report are only made for these data or information. The testing laboratory is not responsible for the authenticity and accuracy of these data or information.

3.4 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
Per-scan all kind of data rate, the follow list were the worst case:	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n-HT20	6.5Mbps
802.11n-HT40	13.5Mbps
Remark:	
- For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11b, g, n, modulation mode, found 802.11b modulation and Lowest channel ANT 1 mode was worse case mode. The report only reflects the test data of worst mode. - Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. - During the test, Enter the EUT engineering mode by using the serial port and MP Tool and the prototype transmission power level is set as follows: The 802.11b mode transmission power level is 76, the 802.11g mode prototype transmission power level is 67, the 802.11 n20 mode prototype transmission power level is 63 and the 802.11n40 mode prototype transmission power level is 63.	
Operating Environment:	
Temperature:	15℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 5.00Vdc, Extreme: Low 4.5Vdc, High 5.5Vdc
Test Engineer:	Hopper Li(Conducted measurement) Reiy Ren(Radiated measurement)

3.5 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Occupied Channel Bandwidth	0.114 MHz
RF output power, conducted	0.71 dB
Power Spectral Density, conducted	0.70 dB
Unwanted Emissions, conducted	2.76 dB
Conducted Emission for LISN (9kHz ~ 150kHz)	3.0 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	2.5 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	2.1 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.7 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (1GHz ~ 18GHz) (3m FAR)	5.28 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.18 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.

- **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	12-09-2025	12-08-2030
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	12-07-2025	12-06-2026
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	08-09-2025	08-08-2026
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	12-04-2025	12-03-2026
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	12-04-2025	12-03-2026
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	08-08-2025	08-07-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-14-2026	01-13-2027
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-14-2026	01-13-2027
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-14-2026	01-13-2027
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Radiated Emission(3m FAR):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	04-13-2026	04-12-2027
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-01-2024	06-30-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	04-30-2026	04-29-2027
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	12-07-2025	12-06-2026
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	12-07-2025	12-06-2026
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	03-30-2026	03-29-2027
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	03-30-2026	03-29-2027
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	12-05-2025	12-04-2026
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	12-04-2025	12-03-2026
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	12-04-2025	12-03-2026
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	07-28-2025	07-27-2026
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	07-28-2025	07-27-2026
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	07-28-2025	07-27-2026
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0		

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	04-29-2026	04-28-2027
LISN	Rohde & Schwarz	ENV432	WXJ005-2	08-08-2025	08-07-2026
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-14-2026	01-13-2027
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

Conducted Method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	08-08-2025	08-07-2026
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	12-17-2024	12-16-2026
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	08-08-2025	08-07-2026
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

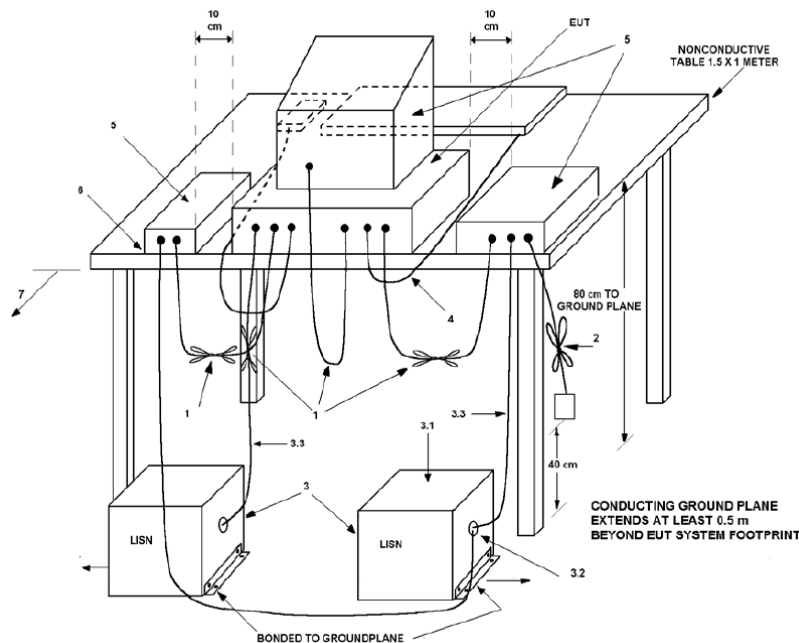
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

802.11b, 802.11g, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	6	2437	11	2462

802.11n-HT40					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
3	2422	6	2437	9	2452

4.2 Test Setup

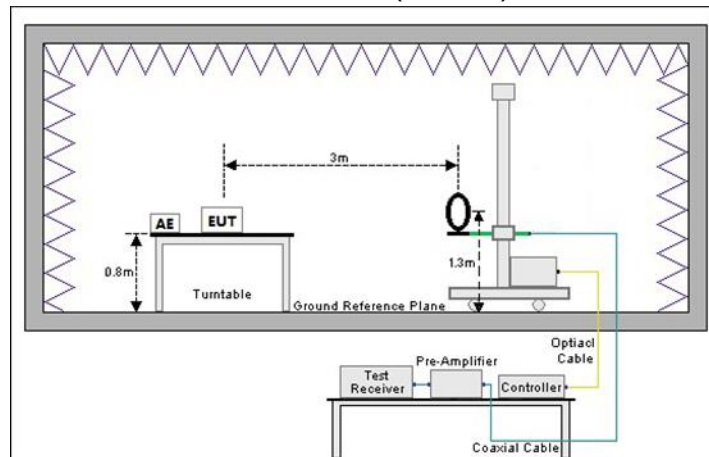
1) Conducted emission measurement:



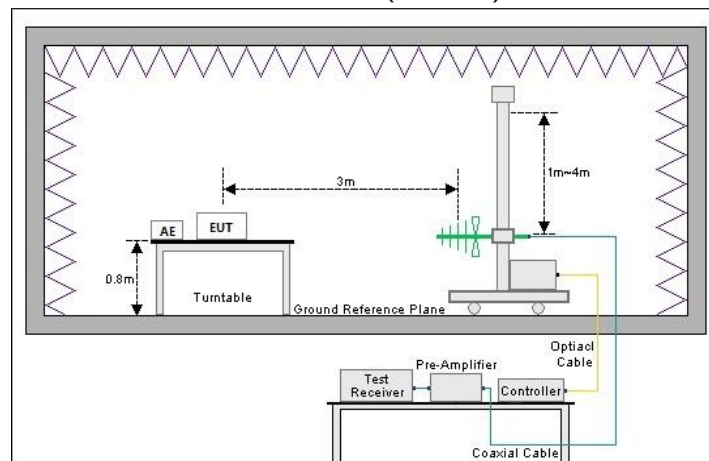
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

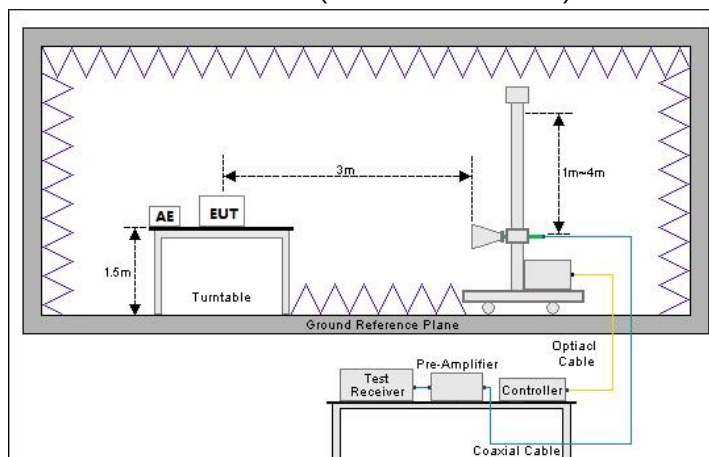
Below 30MHz (3m SAC)



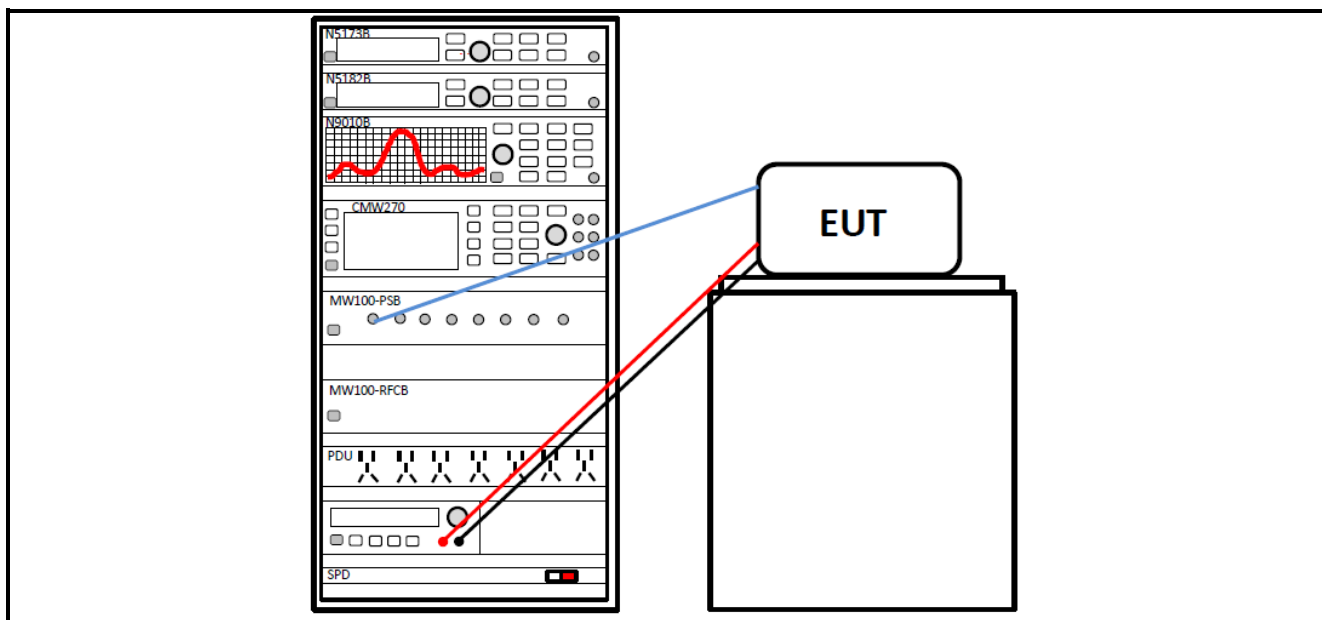
Below 1GHz (3m SAC)



Above 1GHz (3m SAC or 3m FAR)



3) Conducted test method



4.3 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 C63.10 on conducted measurement.
Radiated emission	For below 30MHz: 1. The EUT was placed on the table top 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 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 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 1.5 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.
Conducted test method	1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

Test items	Standard clause	Test Method	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	/	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207	ANSI C63.10 clause 6.2	See Section 5.3	Pass
Duty Cycle	ANSI C63.10-2020	ANSI C63.10 clause 11.6	Appendix A– 2.4G Wi-Fi	Pass
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 clause 11.9.2.3.2	Appendix A– 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 clause 11.8.1 and 6.9.3	Appendix A– 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	ANSI C63.10 clause 11.10.5	Appendix A– 2.4G Wi-Fi	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	ANSI C63.10 clause 6.10.4	Appendix A– 2.4G Wi-Fi	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	ANSI C63.10 clause 6.10.5, 11.12.1 and 11.12.2.5.2	See Section 5.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	ANSI C63.10 clause 6.3, 6.5, 6.6, 6.2.3 and 11.12.2.5.2	See Section 5.5	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).				
Test Method:	ANSI C63.10-2020 KDB 558074 D01 15.247 Meas Guidance v05r02			

5.1.2 Test Limit

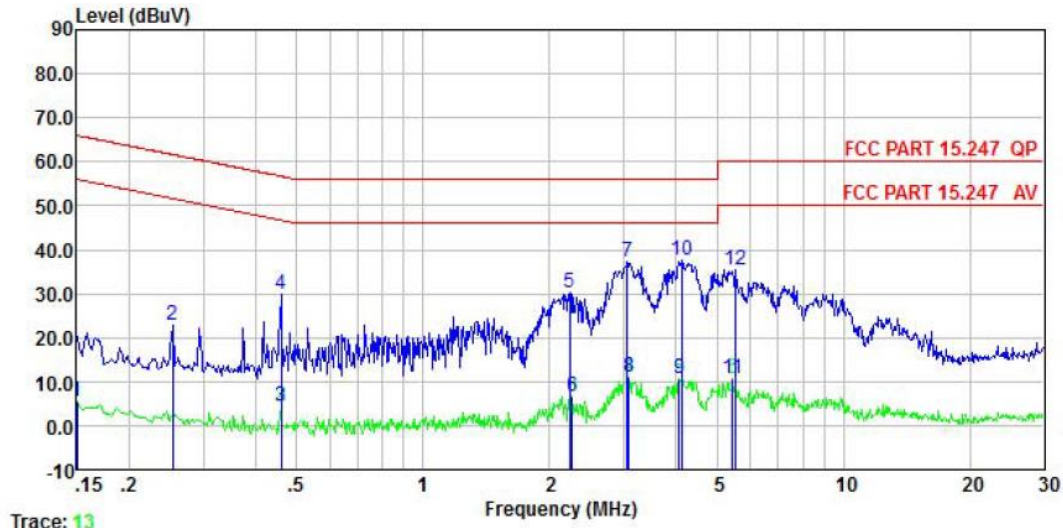
Test items	Limit																														
AC Power Line Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.	Frequency (MHz)	Limit (dBμV)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	56	46	5 – 30	60	50																
Frequency (MHz)	Limit (dBμV)																														
	Quasi-Peak	Average																													
0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1																													
0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
99% Occupied Bandwidth	N/A																														
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																														
Band-edge Emission Conduction Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).																														
Emissions in Restricted Frequency Bands Emissions in Non-restricted Frequency Bands	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV/m)</th><th rowspan="2">Detector</th></tr><tr><th>@ 3m</th><th>@ 10m</th></tr><tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr></table> Note: The more stringent limit applies at transition frequencies. <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBμV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> Note: The measurement bandwidth shall be 1 MHz or greater.	Frequency (MHz)	Limit (dBμV/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dBμV/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dBμV/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
Frequency	Limit (dBμV/m) @ 3m																														
	Average	Peake																													
Above 1 GHz	54.0	74.0																													

5.2 Antenna Requirement

Standard Requirement:	FCC Part 15 C Section 15.203/15.247 (b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247 (b)(4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
E.U.T Antenna:	
The antenna connector of EUT is a PCB connector. The debugging board and antenna used during the test are provided by the applicant. The best-case gain of the antenna is 3.98 dBi. See product internal photos for details.	

5.3 AC Power Line Conducted Emission

Product name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test by:	Alan Chen	Test mode:	802.11b ANT 1 Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test Channel:	Lowest channel	Test voltage:	AC 120 V/60 Hz



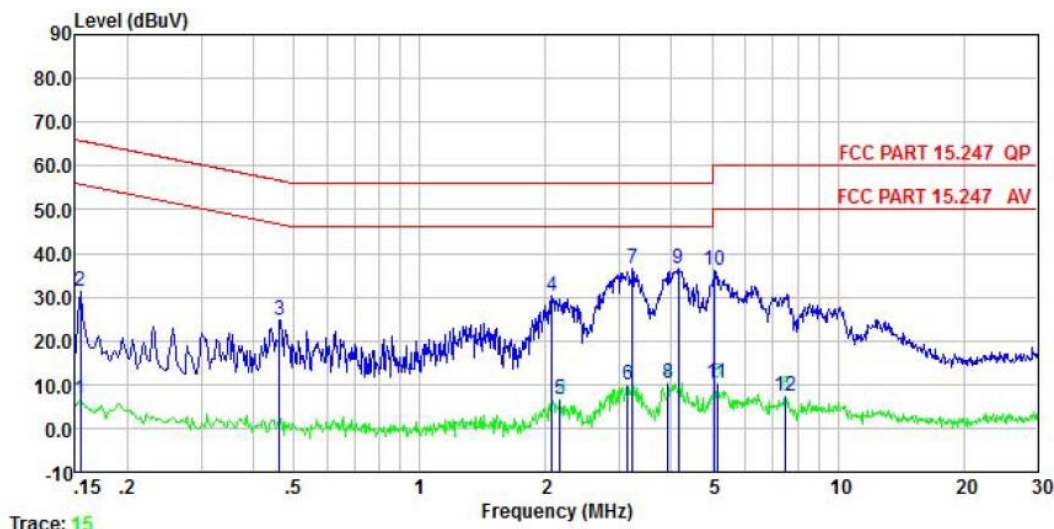
Remark :

	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	-14.49	10.20	0.00	9.88	0.00	5.59	56.00	-50.41	Average
2	0.253	2.81	10.10	0.00	9.88	0.00	22.79	61.64	-38.85	QP
3	0.459	-15.77	10.13	0.00	9.88	0.00	4.24	46.71	-42.47	Average
4	0.459	9.73	10.13	0.00	9.88	0.00	29.74	56.71	-26.97	QP
5	2.237	10.08	10.16	0.00	9.88	0.00	30.12	56.00	-25.88	QP
6	2.261	-13.51	10.16	0.00	9.88	0.00	6.53	46.00	-39.47	Average
7	3.058	17.06	10.29	0.00	9.89	0.00	37.24	56.00	-18.76	QP
8	3.090	-8.98	10.28	0.00	9.89	0.00	11.19	46.00	-34.81	Average
9	4.070	-9.16	10.11	0.00	9.89	0.00	10.84	46.00	-35.16	Average
10	4.114	17.54	10.12	0.00	9.89	0.00	37.55	56.00	-18.45	QP
11	5.447	-9.41	10.33	0.00	9.90	0.00	10.82	50.00	-39.18	Average
12	5.535	15.09	10.33	0.00	9.90	0.00	35.32	60.00	-24.68	QP

Remark:

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

Product name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test by:	Alan Chen	Test mode:	802.11b ANT 1 Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test Channel:	Lowest channel	Test voltage:	AC 120 V/60 Hz



	Read	LISN	Aux	Aux2	Cable	Level	Limit	Over	
Freq	Level	Factor	Factor	Factor	Loss	Line	Limit	Remark	
-----MHz	-----dBuV	-----dB	-----dB	-----dB	-----dB	-----dBuV	-----dBuV	-----dB	-----
1	0.154	-13.63	10.20	0.00	9.88	0.00	6.45	55.78	-49.33 Average
2	0.154	11.25	10.20	0.00	9.88	0.00	31.33	65.78	-34.45 QP
3	0.461	4.64	10.17	0.00	9.88	0.00	24.69	56.67	-31.98 QP
4	2.066	9.87	10.29	0.00	9.88	0.00	30.04	56.00	-25.96 QP
5	2.167	-13.67	10.28	0.00	9.88	0.00	6.49	46.00	-39.51 Average
6	3.140	-10.01	10.20	0.00	9.89	0.00	10.08	46.00	-35.92 Average
7	3.224	16.35	10.20	0.00	9.89	0.00	36.44	56.00	-19.56 QP
8	3.922	-9.68	10.20	0.00	9.89	0.00	10.41	46.00	-35.59 Average
9	4.158	16.24	10.20	0.00	9.89	0.00	36.33	56.00	-19.67 QP
10	5.085	15.88	10.20	0.00	9.89	0.00	35.97	60.00	-24.03 QP
11	5.139	-9.92	10.21	0.00	9.89	0.00	10.18	50.00	-39.82 Average
12	7.486	-12.92	10.30	0.00	9.90	0.00	7.28	50.00	-42.72 Average

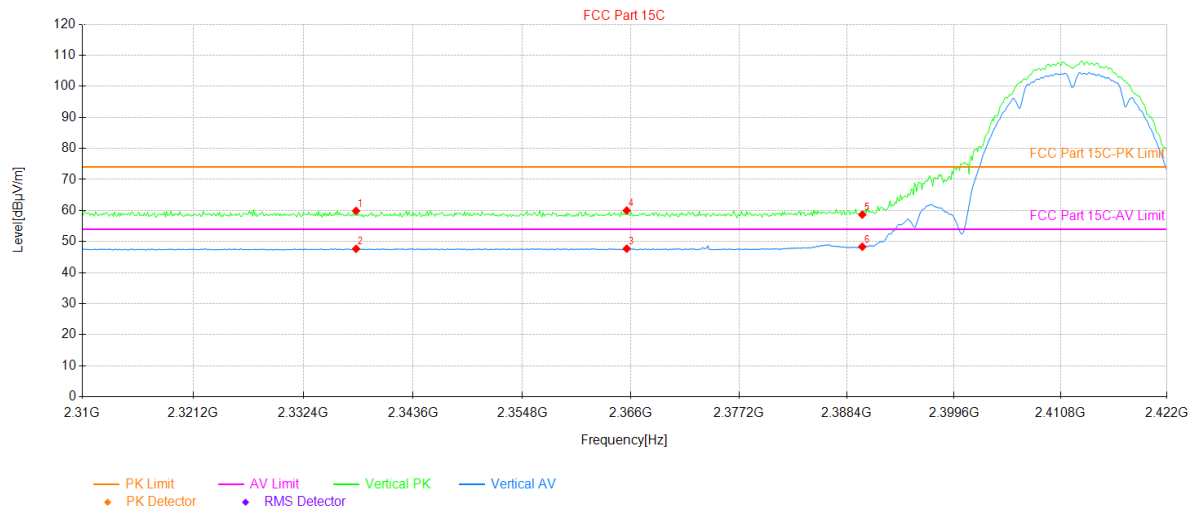
Remark:

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

5.4 Emissions in Restricted Frequency Bands

ANT1:

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



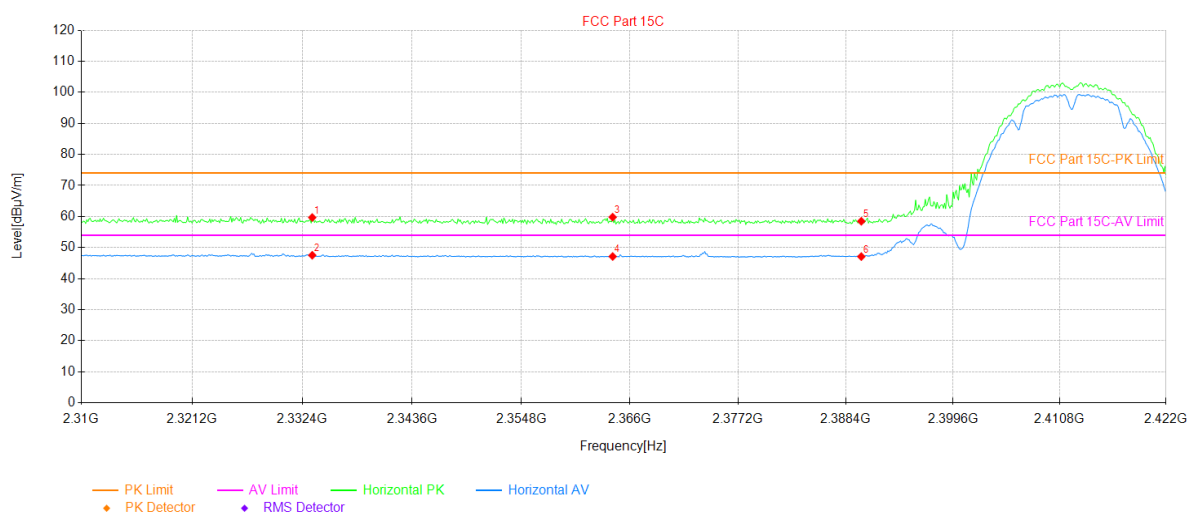
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2337.78	23.86	36.03	59.89	74.00	14.11	34	PK	PASS	Vertical
2	2337.78	11.64	36.03	47.67	54.00	6.33	234	AV	PASS	Vertical
3	2365.55	11.61	36.12	47.73	54.00	6.27	343	AV	PASS	Vertical
4	2365.55	23.89	36.12	60.01	74.00	13.99	38	PK	PASS	Vertical
5	2390.00	22.49	36.19	58.68	74.00	15.32	351	PK	PASS	Vertical
6	2390.00	12.15	36.19	48.34	54.00	5.66	8	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



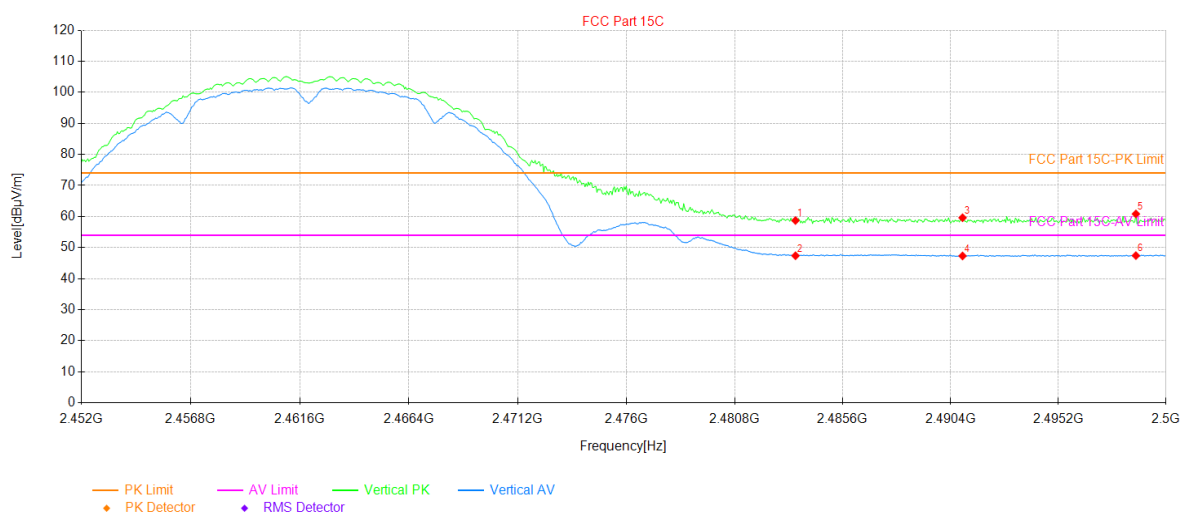
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2333.41	23.67	36.02	59.69	74.00	14.31	77	PK	PASS	Horizontal
2	2333.41	11.52	36.02	47.54	54.00	6.46	265	AV	PASS	Horizontal
3	2364.21	23.70	36.11	59.81	74.00	14.19	337	PK	PASS	Horizontal
4	2364.21	11.03	36.11	47.14	54.00	6.86	104	AV	PASS	Horizontal
5	2390.00	22.29	36.19	58.48	74.00	15.52	28	PK	PASS	Horizontal
6	2390.00	10.92	36.19	47.11	54.00	6.89	246	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



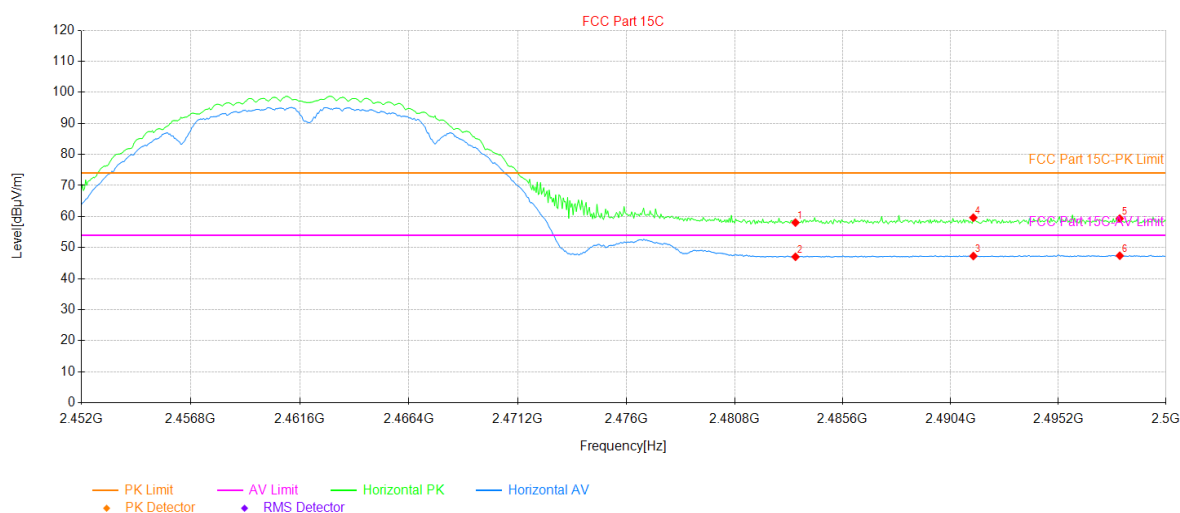
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.48	36.24	58.72	74.00	15.28	218	PK	PASS	Vertical
2	2483.50	11.14	36.24	47.38	54.00	6.62	26	AV	PASS	Vertical
3	2490.93	23.32	36.30	59.62	74.00	14.38	338	PK	PASS	Vertical
4	2490.93	11.02	36.30	47.32	54.00	6.68	338	AV	PASS	Vertical
5	2498.66	24.47	36.36	60.83	74.00	13.17	128	PK	PASS	Vertical
6	2498.66	11.06	36.36	47.42	54.00	6.58	341	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		

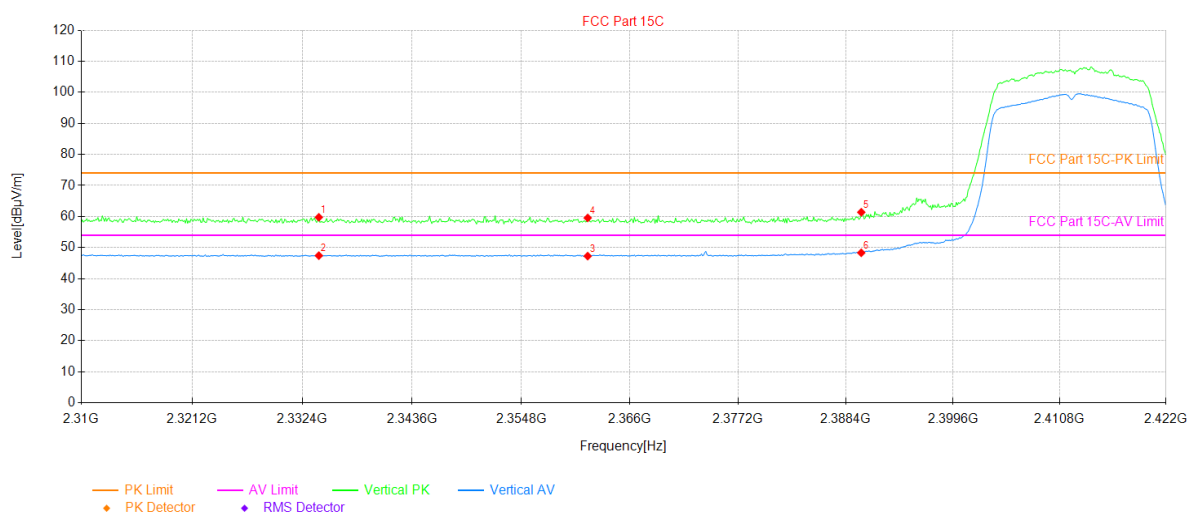


Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity	
1	2483.50	21.82	36.24	58.06	74.00	15.94	300	PK	PASS	Horizontal	
2	2483.50	10.79	36.24	47.03	54.00	6.97	111	AV	PASS	Horizontal	
3	2491.41	10.98	36.31	47.29	54.00	6.71	258	AV	PASS	Horizontal	
4	2491.41	23.33	36.31	59.64	74.00	14.36	341	PK	PASS	Horizontal	
5	2497.94	23.00	36.36	59.36	74.00	14.64	322	PK	PASS	Horizontal	
6	2497.94	11.03	36.36	47.39	54.00	6.61	289	AV	PASS	Horizontal	

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



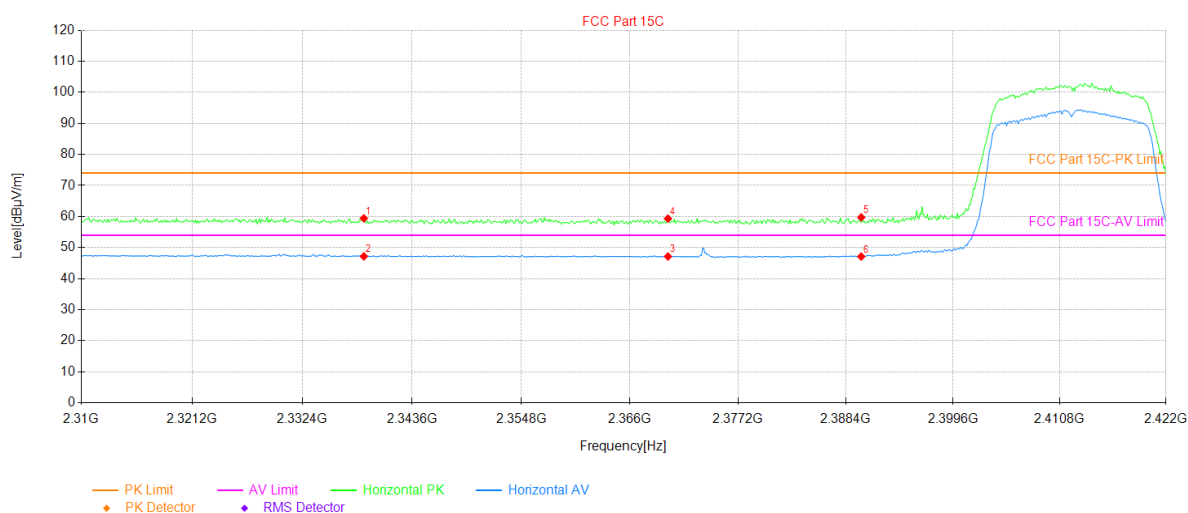
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2334.08	23.74	36.02	59.76	74.00	14.24	360	PK	PASS	Vertical
2	2334.08	11.39	36.02	47.41	54.00	6.59	4	AV	PASS	Vertical
3	2361.63	11.16	36.10	47.26	54.00	6.74	356	AV	PASS	Vertical
4	2361.63	23.46	36.10	59.56	74.00	14.44	356	PK	PASS	Vertical
5	2390.00	25.20	36.19	61.39	74.00	12.61	2	PK	PASS	Vertical
6	2390.00	12.14	36.19	48.33	54.00	5.67	338	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



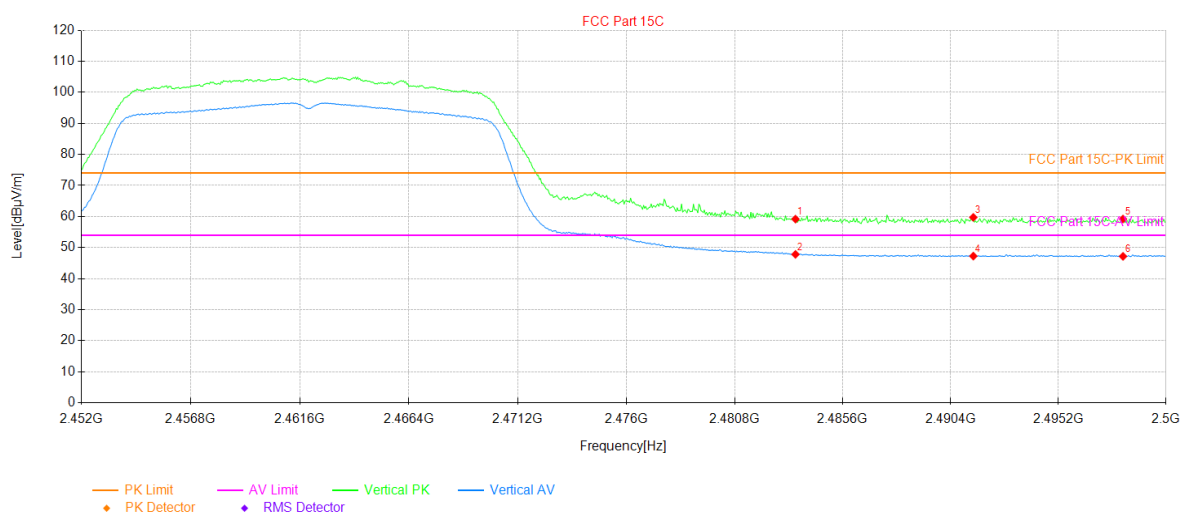
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2338.67	23.38	36.04	59.42	74.00	14.58	163	PK	PASS	Horizontal
2	2338.67	11.13	36.04	47.17	54.00	6.83	227	AV	PASS	Horizontal
3	2369.92	11.01	36.13	47.14	54.00	6.86	208	AV	PASS	Horizontal
4	2369.92	23.21	36.13	59.34	74.00	14.66	208	PK	PASS	Horizontal
5	2390.00	23.55	36.19	59.74	74.00	14.26	178	PK	PASS	Horizontal
6	2390.00	10.94	36.19	47.13	54.00	6.87	348	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



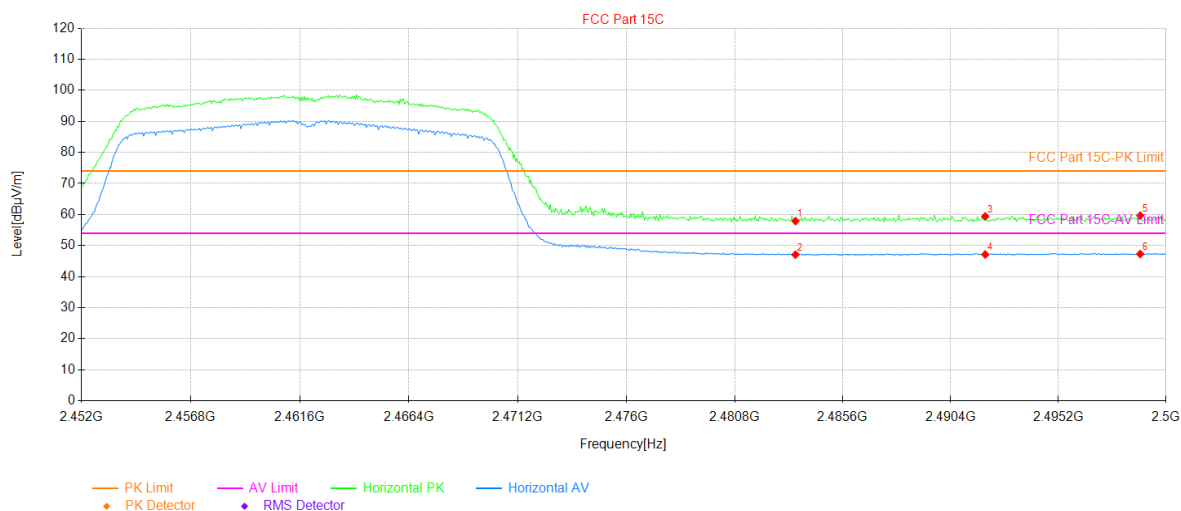
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.93	36.24	59.17	74.00	14.83	173	PK	PASS	Vertical
2	2483.50	11.58	36.24	47.82	54.00	6.18	34	AV	PASS	Vertical
3	2491.41	23.42	36.31	59.73	74.00	14.27	203	PK	PASS	Vertical
4	2491.41	10.95	36.31	47.26	54.00	6.74	116	AV	PASS	Vertical
5	2498.08	22.84	36.36	59.20	74.00	14.80	15	PK	PASS	Vertical
6	2498.08	10.82	36.36	47.18	54.00	6.82	271	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



Suspected Data List

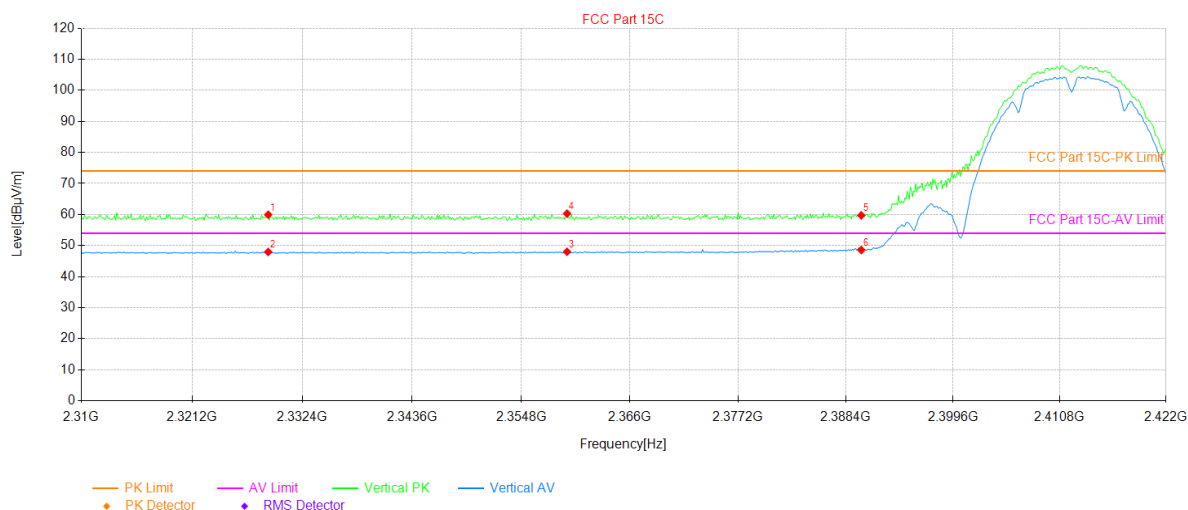
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.66	36.24	57.90	74.00	16.10	119	PK	PASS	Horizontal
2	2483.50	10.85	36.24	47.09	54.00	6.91	153	AV	PASS	Horizontal
3	2491.94	23.10	36.31	59.41	74.00	14.59	0	PK	PASS	Horizontal
4	2491.94	10.84	36.31	47.15	54.00	6.85	228	AV	PASS	Horizontal
5	2498.85	23.32	36.37	59.69	74.00	14.31	70	PK	PASS	Horizontal
6	2498.85	10.92	36.37	47.29	54.00	6.71	262	AV	PASS	Horizontal

Remark:

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

ANT2:

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



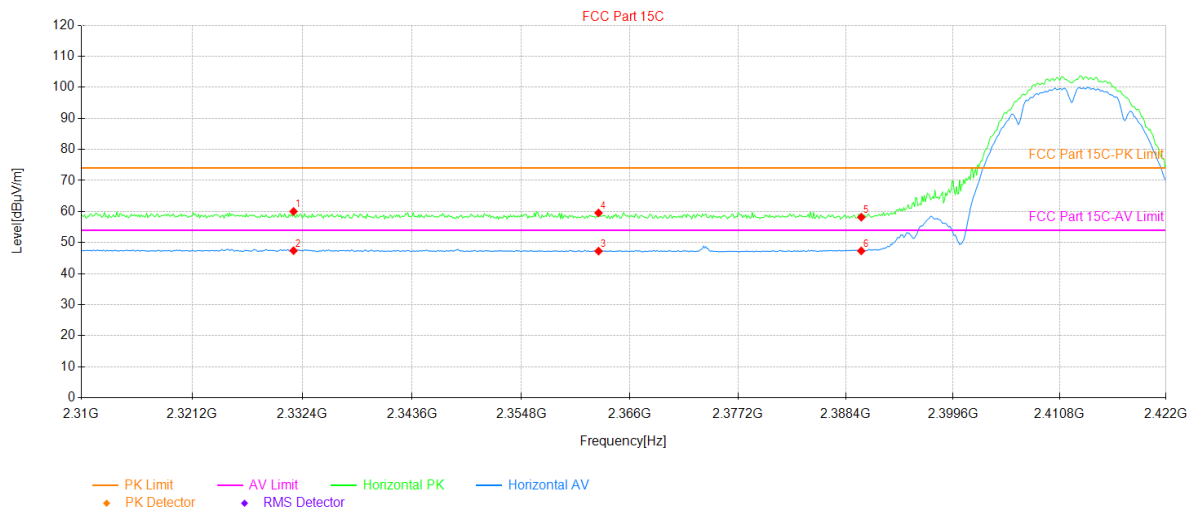
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2328.93	23.94	36.01	59.95	74.00	14.05	346	PK	PASS	Vertical
2	2328.93	11.95	36.01	47.96	54.00	6.04	23	AV	PASS	Vertical
3	2359.50	11.92	36.10	48.02	54.00	5.98	42	AV	PASS	Vertical
4	2359.50	24.20	36.10	60.30	74.00	13.70	360	PK	PASS	Vertical
5	2390.00	23.54	36.19	59.73	74.00	14.27	177	PK	PASS	Vertical
6	2390.00	12.40	36.19	48.59	54.00	5.41	23	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



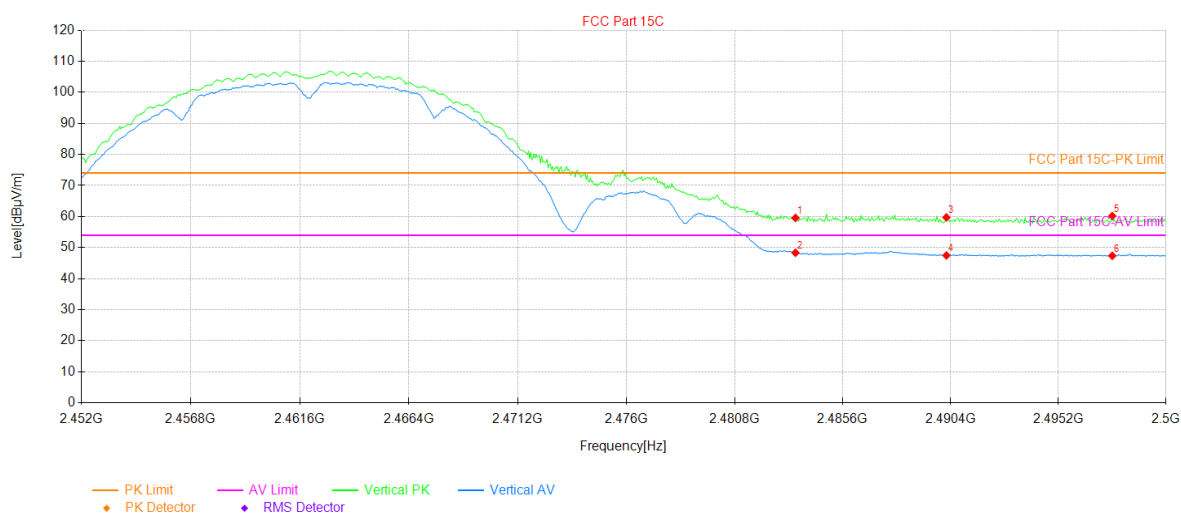
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2331.50	24.02	36.01	60.03	74.00	13.97	202	PK	PASS	Horizontal
2	2331.50	11.39	36.01	47.40	54.00	6.60	254	AV	PASS	Horizontal
3	2362.75	11.15	36.11	47.26	54.00	6.74	209	AV	PASS	Horizontal
4	2362.75	23.45	36.11	59.56	74.00	14.44	79	PK	PASS	Horizontal
5	2390.00	21.98	36.19	58.17	74.00	15.83	254	PK	PASS	Horizontal
6	2390.00	11.14	36.19	47.33	54.00	6.67	217	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI &BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



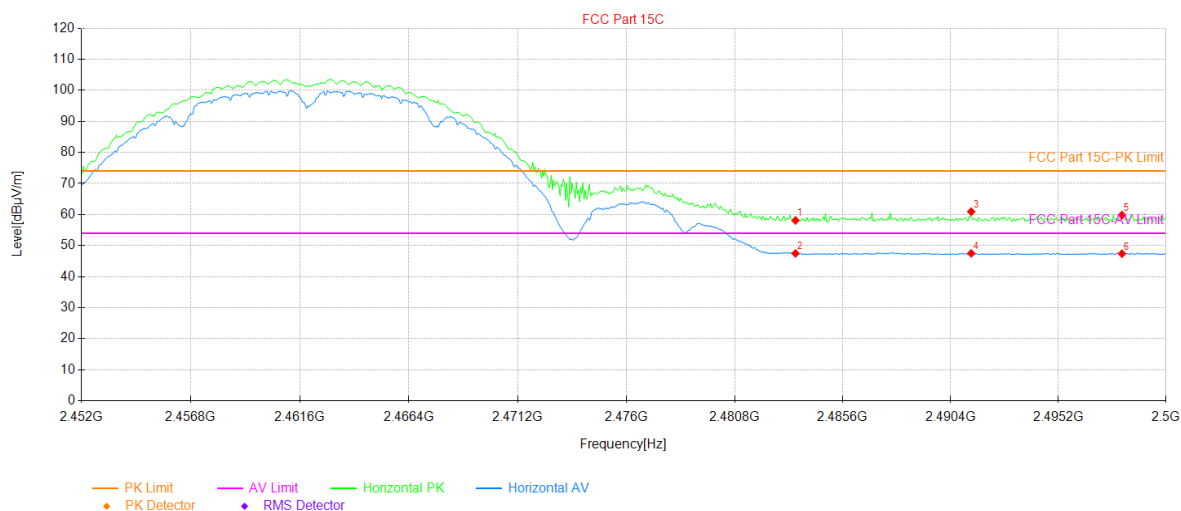
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	23.32	36.24	59.56	74.00	14.44	172	PK	PASS	Vertical
2	2483.50	12.10	36.24	48.34	54.00	5.66	184	AV	PASS	Vertical
3	2490.21	23.44	36.30	59.74	74.00	14.26	308	PK	PASS	Vertical
4	2490.21	11.18	36.30	47.48	54.00	6.52	207	AV	PASS	Vertical
5	2497.60	23.82	36.36	60.18	74.00	13.82	192	PK	PASS	Vertical
6	2497.60	11.00	36.36	47.36	54.00	6.64	192	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



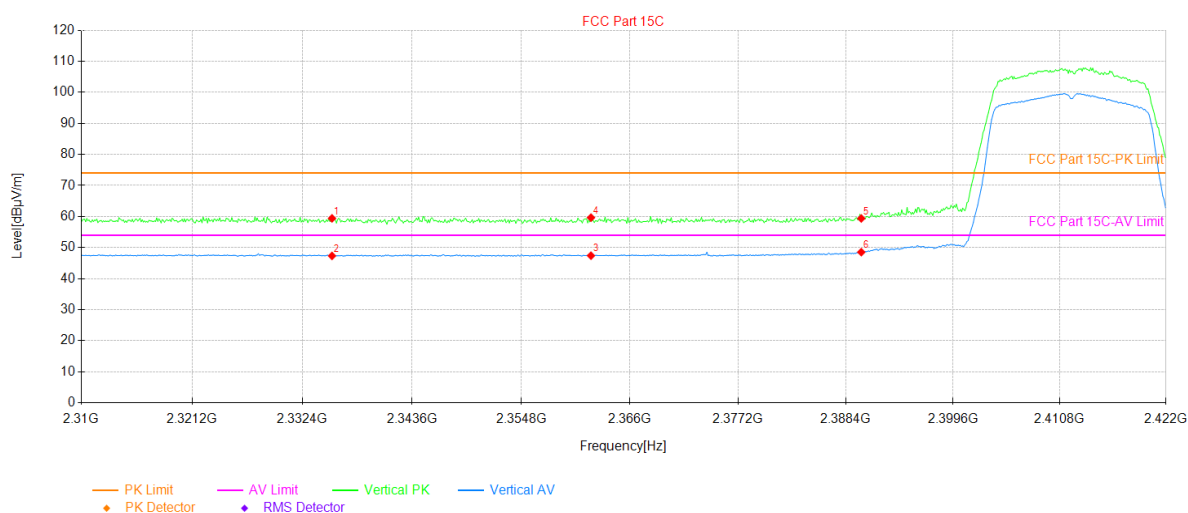
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.87	36.24	58.11	74.00	15.89	98	PK	PASS	Horizontal
2	2483.50	11.25	36.24	47.49	54.00	6.51	248	AV	PASS	Horizontal
3	2491.31	24.63	36.31	60.94	74.00	13.06	248	PK	PASS	Horizontal
4	2491.31	11.20	36.31	47.51	54.00	6.49	248	AV	PASS	Horizontal
5	2498.03	23.48	36.36	59.84	74.00	14.16	330	PK	PASS	Horizontal
6	2498.03	11.04	36.36	47.40	54.00	6.60	262	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



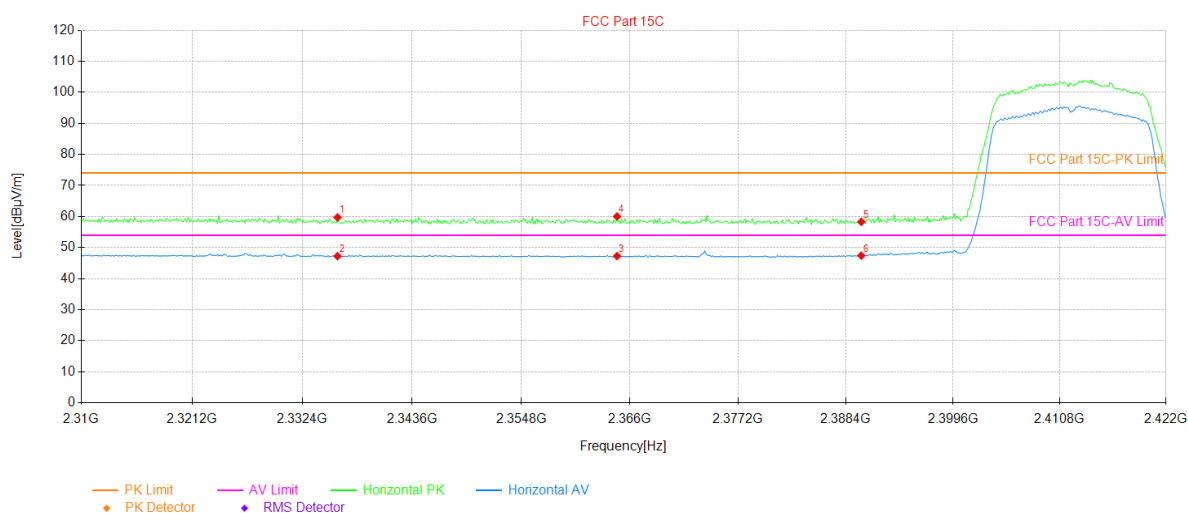
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2335.42	23.38	36.03	59.41	74.00	14.59	309	PK	PASS	Vertical
2	2335.42	11.30	36.03	47.33	54.00	6.67	12	AV	PASS	Vertical
3	2361.97	11.30	36.11	47.41	54.00	6.59	42	AV	PASS	Vertical
4	2361.97	23.54	36.11	59.65	74.00	14.35	206	PK	PASS	Vertical
5	2390.00	23.20	36.19	59.39	74.00	14.61	4	PK	PASS	Vertical
6	2390.00	12.35	36.19	48.54	54.00	5.46	19	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



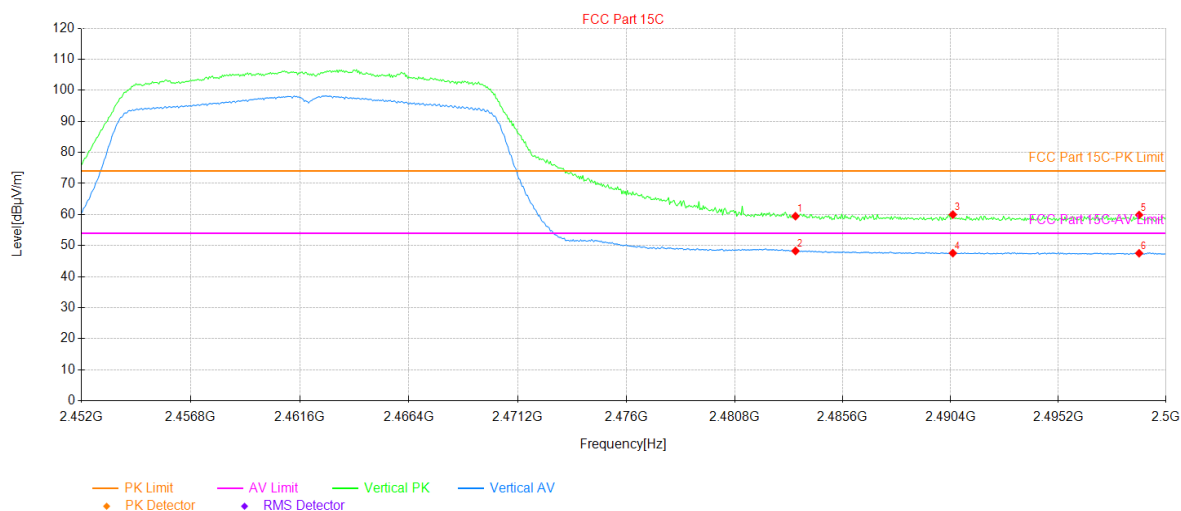
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2335.98	23.69	36.03	59.72	74.00	14.28	284	PK	PASS	Horizontal
2	2335.98	11.21	36.03	47.24	54.00	6.76	281	AV	PASS	Horizontal
3	2364.66	11.16	36.11	47.27	54.00	6.73	277	AV	PASS	Horizontal
4	2364.66	23.92	36.11	60.03	74.00	13.97	214	PK	PASS	Horizontal
5	2390.00	22.10	36.19	58.29	74.00	15.71	101	PK	PASS	Horizontal
6	2390.00	11.21	36.19	47.40	54.00	6.60	258	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



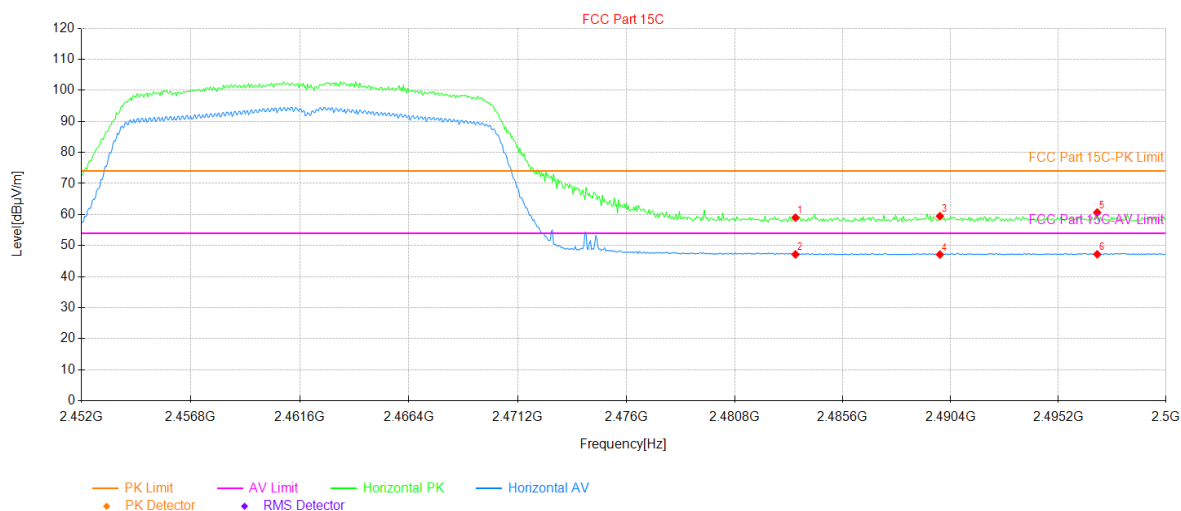
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	23.23	36.24	59.47	74.00	14.53	214	PK	PASS	Vertical
2	2483.50	12.04	36.24	48.28	54.00	5.72	214	AV	PASS	Vertical
3	2490.50	23.68	36.30	59.98	74.00	14.02	251	PK	PASS	Vertical
4	2490.50	11.27	36.30	47.57	54.00	6.43	192	AV	PASS	Vertical
5	2498.80	23.49	36.37	59.86	74.00	14.14	199	PK	PASS	Vertical
6	2498.80	11.16	36.37	47.53	54.00	6.47	199	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



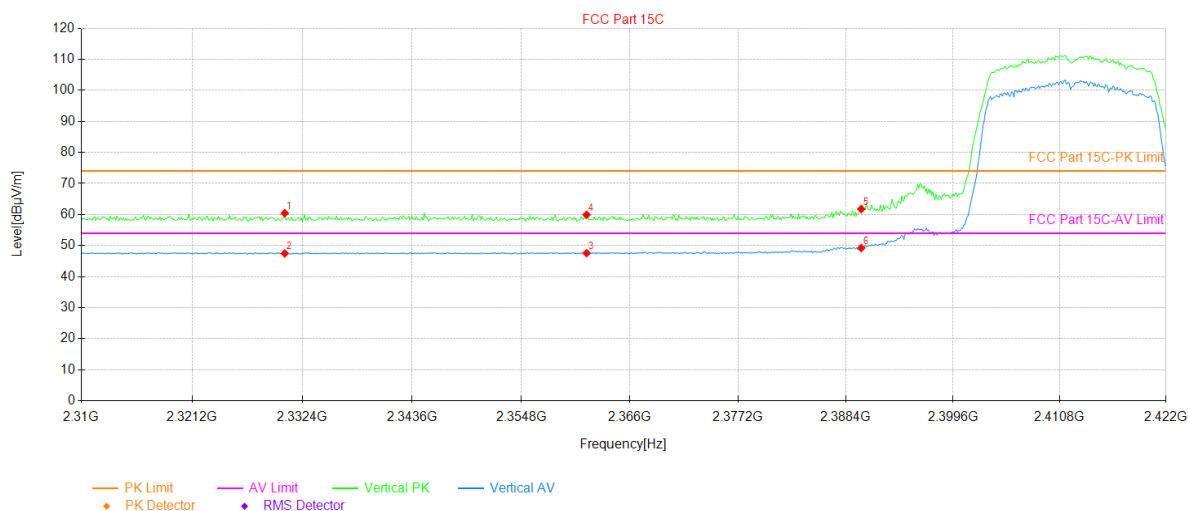
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.77	36.24	59.01	74.00	14.99	300	PK	PASS	Horizontal
2	2483.50	10.92	36.24	47.16	54.00	6.84	50	AV	PASS	Horizontal
3	2489.92	23.18	36.30	59.48	74.00	14.52	358	PK	PASS	Horizontal
4	2489.92	10.83	36.30	47.13	54.00	6.87	220	AV	PASS	Horizontal
5	2496.93	24.29	36.36	60.65	74.00	13.35	235	PK	PASS	Horizontal
6	2496.93	10.84	36.36	47.20	54.00	6.80	277	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



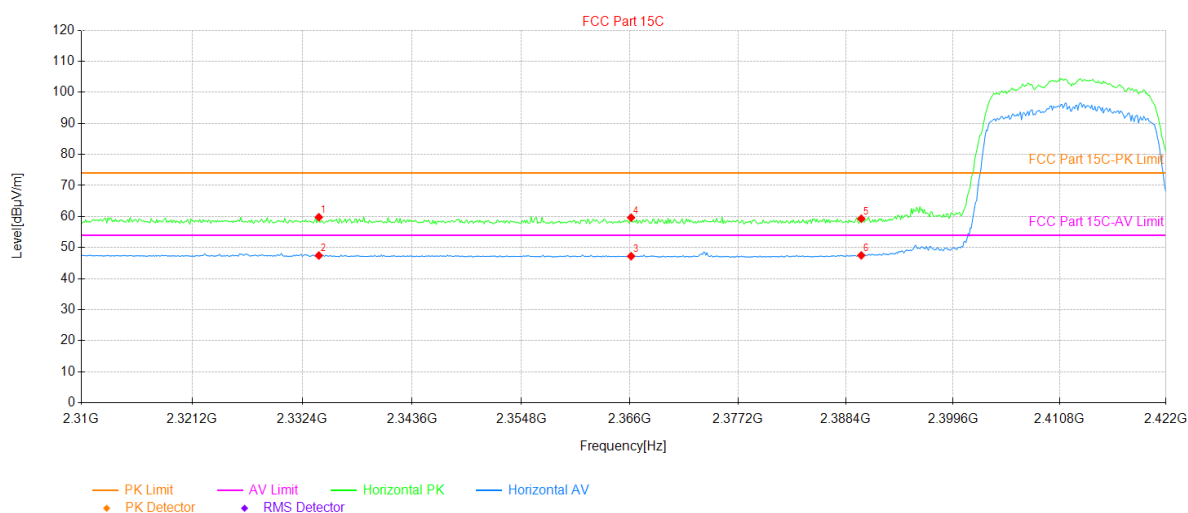
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2330.61	24.42	36.01	60.43	74.00	13.57	4	PK	PASS	Vertical
2	2330.61	11.47	36.01	47.48	54.00	6.52	346	AV	PASS	Vertical
3	2361.52	11.46	36.10	47.56	54.00	6.44	30	AV	PASS	Vertical
4	2361.52	23.82	36.10	59.92	74.00	14.08	195	PK	PASS	Vertical
5	2390.00	25.58	36.19	61.77	74.00	12.23	8	PK	PASS	Vertical
6	2390.00	13.05	36.19	49.24	54.00	4.76	360	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



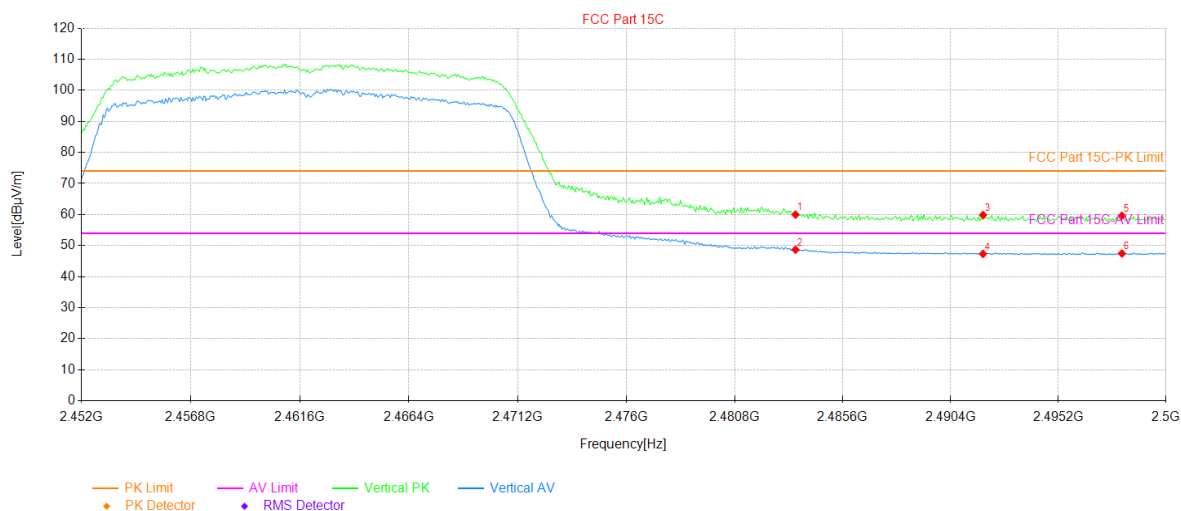
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2334.08	23.76	36.02	59.78	74.00	14.22	266	PK	PASS	Horizontal
2	2334.08	11.42	36.02	47.44	54.00	6.56	251	AV	PASS	Horizontal
3	2366.11	11.11	36.12	47.23	54.00	6.77	255	AV	PASS	Horizontal
4	2366.11	23.53	36.12	59.65	74.00	14.35	341	PK	PASS	Horizontal
5	2390.00	23.12	36.19	59.31	74.00	14.69	349	PK	PASS	Horizontal
6	2390.00	11.30	36.19	47.49	54.00	6.51	228	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



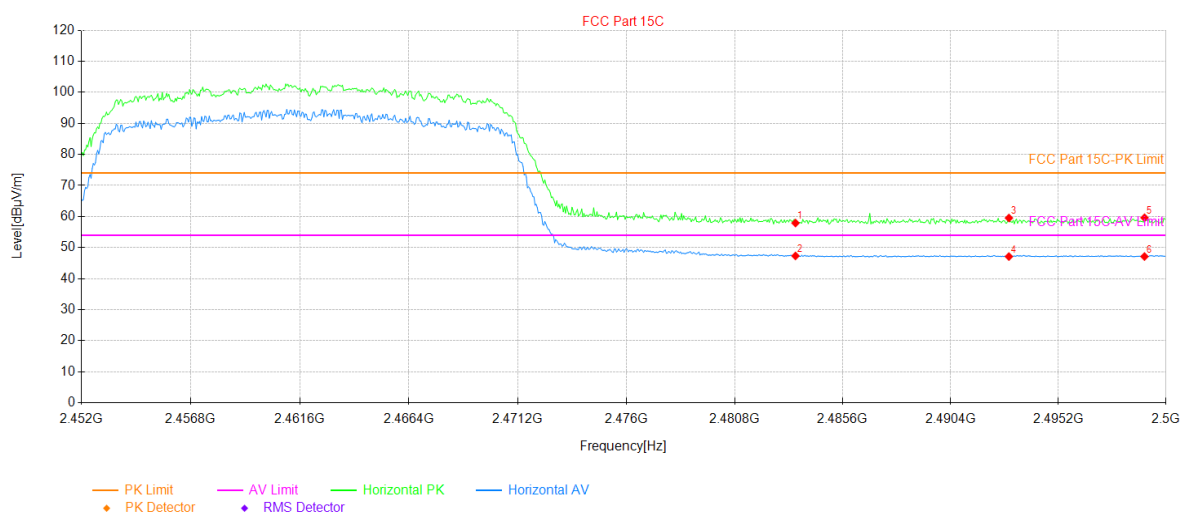
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	23.74	36.24	59.98	74.00	14.02	8	PK	PASS	Vertical
2	2483.50	12.43	36.24	48.67	54.00	5.33	346	AV	PASS	Vertical
3	2491.84	23.54	36.31	59.85	74.00	14.15	275	PK	PASS	Vertical
4	2491.84	11.02	36.31	47.33	54.00	6.67	286	AV	PASS	Vertical
5	2498.03	23.26	36.36	59.62	74.00	14.38	181	PK	PASS	Vertical
6	2498.03	11.09	36.36	47.45	54.00	6.55	211	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT20 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



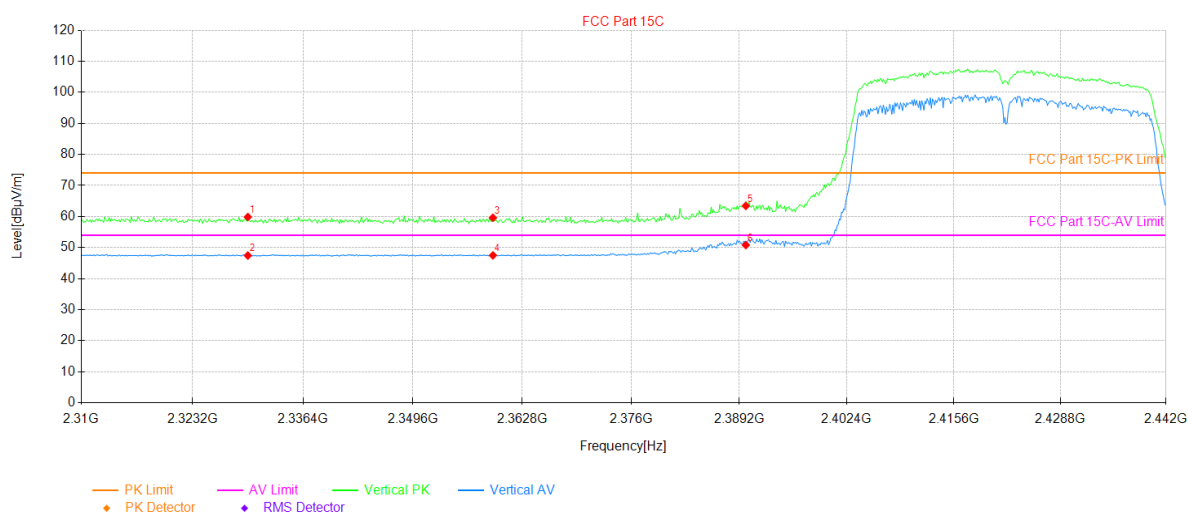
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.67	36.24	57.91	74.00	16.09	172	PK	PASS	Horizontal
2	2483.50	11.08	36.24	47.32	54.00	6.68	247	AV	PASS	Horizontal
3	2492.99	23.21	36.32	59.53	74.00	14.47	356	PK	PASS	Horizontal
4	2492.99	10.79	36.32	47.11	54.00	6.89	281	AV	PASS	Horizontal
5	2499.04	23.25	36.37	59.62	74.00	14.38	124	PK	PASS	Horizontal
6	2499.04	10.76	36.37	47.13	54.00	6.87	8	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI &BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



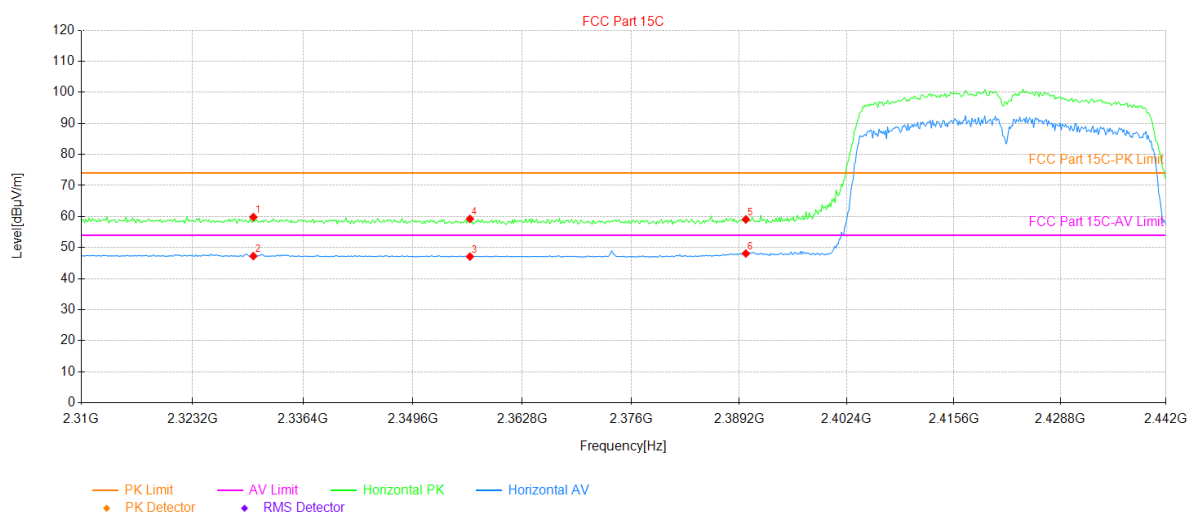
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2329.80	23.85	36.01	59.86	74.00	14.14	215	PK	PASS	Vertical
2	2329.80	11.43	36.01	47.44	54.00	6.56	320	AV	PASS	Vertical
3	2359.24	23.51	36.10	59.61	74.00	14.39	2	PK	PASS	Vertical
4	2359.24	11.39	36.10	47.49	54.00	6.51	4	AV	PASS	Vertical
5	2390.00	27.24	36.19	63.43	74.00	10.57	360	PK	PASS	Vertical
6	2390.00	14.64	36.19	50.83	54.00	3.17	359	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



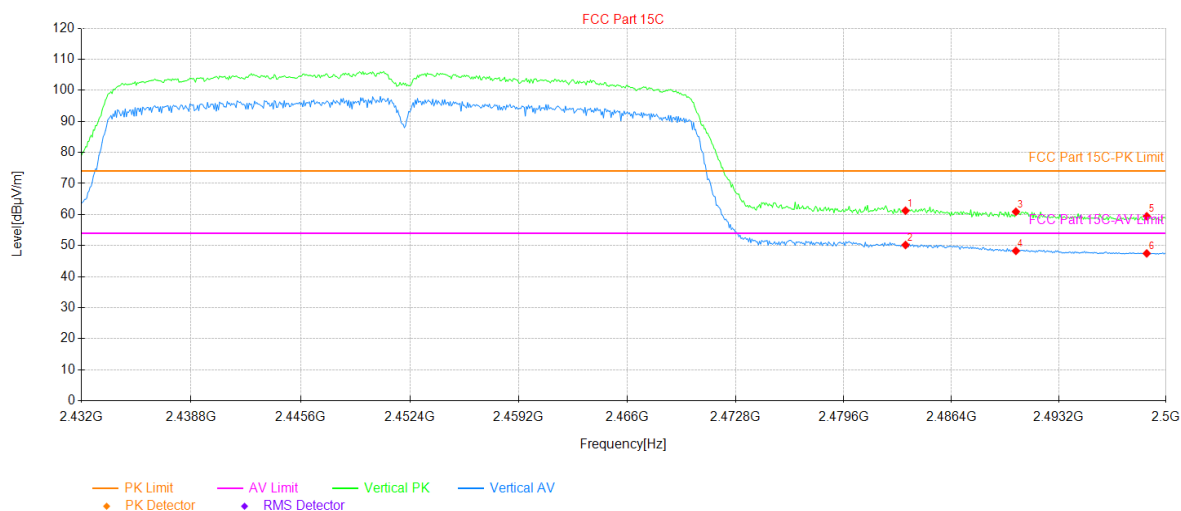
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2330.46	23.81	36.01	59.82	74.00	14.18	172	PK	PASS	Horizontal
2	2330.46	11.25	36.01	47.26	54.00	6.74	266	AV	PASS	Horizontal
3	2356.46	11.02	36.09	47.11	54.00	6.89	210	AV	PASS	Horizontal
4	2356.46	23.16	36.09	59.25	74.00	14.75	176	PK	PASS	Horizontal
5	2390.00	22.86	36.19	59.05	74.00	14.95	112	PK	PASS	Horizontal
6	2390.00	11.90	36.19	48.09	54.00	5.91	202	AV	PASS	Horizontal

Remark:

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

Product Name:	WIFI &BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 5V		



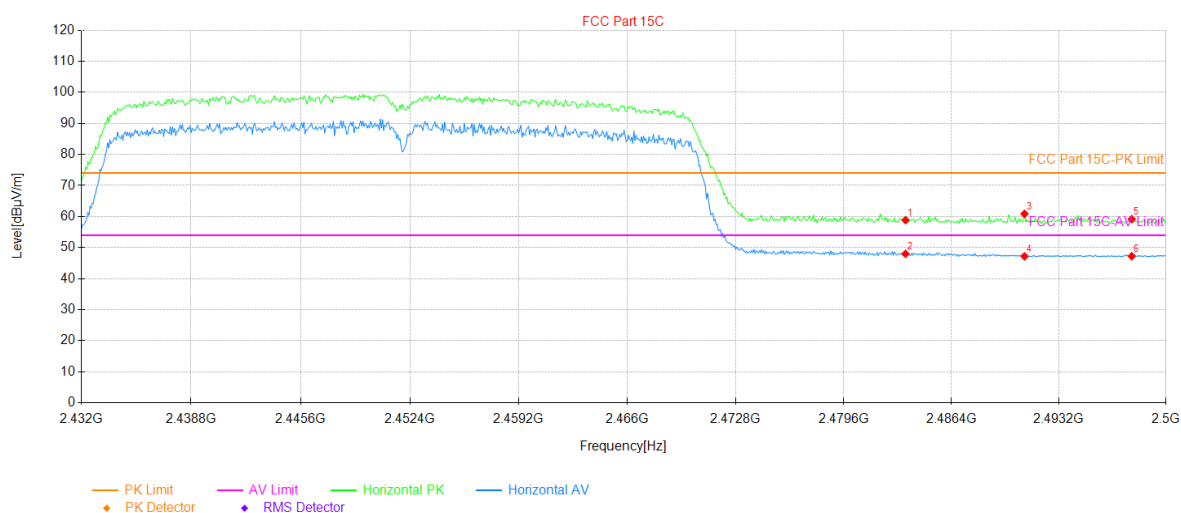
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	25.01	36.24	61.25	74.00	12.75	357	PK	PASS	Vertical
2	2483.50	13.96	36.24	50.20	54.00	3.80	218	AV	PASS	Vertical
3	2490.48	24.61	36.30	60.91	74.00	13.09	218	PK	PASS	Vertical
4	2490.48	11.99	36.30	48.29	54.00	5.71	346	AV	PASS	Vertical
5	2498.78	23.08	36.37	59.45	74.00	14.55	349	PK	PASS	Vertical
6	2498.78	11.11	36.37	47.48	54.00	6.52	178	AV	PASS	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Reiy Ren	Test mode:	802.11n-HT40 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 5V		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.60	36.24	58.84	74.00	15.16	292	PK	PASS	Horizontal
2	2483.50	11.74	36.24	47.98	54.00	6.02	276	AV	PASS	Horizontal
3	2491.02	24.57	36.30	60.87	74.00	13.13	358	PK	PASS	Horizontal
4	2491.02	10.89	36.30	47.19	54.00	6.81	250	AV	PASS	Horizontal
5	2497.82	22.81	36.36	59.17	74.00	14.83	273	PK	PASS	Horizontal
6	2497.82	10.87	36.36	47.23	54.00	6.77	257	AV	PASS	Horizontal

Remark:

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

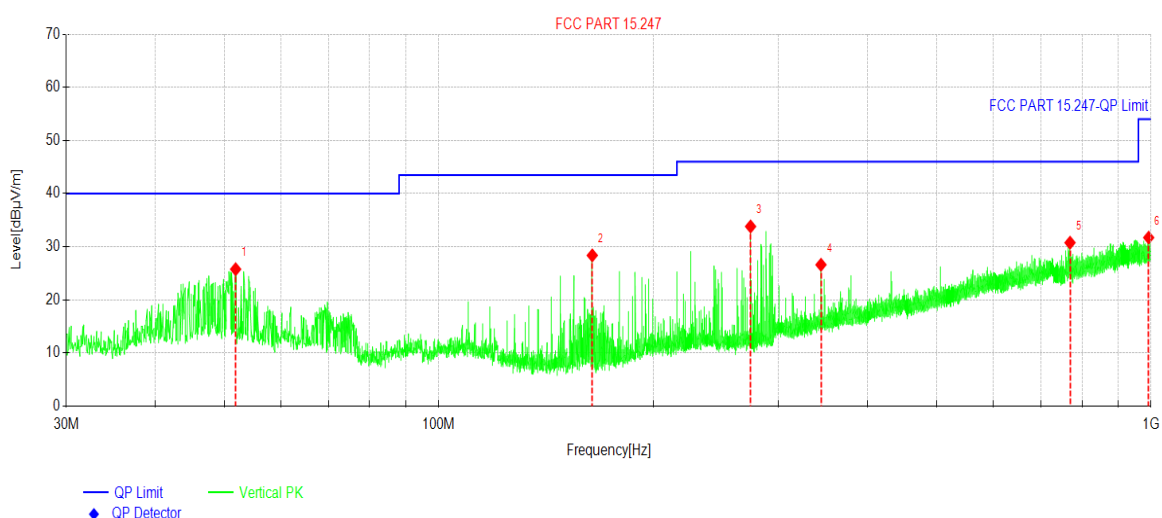
5.5 Emissions in Non-restricted Frequency Bands

Below 30MHz:

Test Frequency from 9kHz to 30MHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Below 1GHz:

Product Name:	WIFI &BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Alan Chen	Test mode:	802.11b ANT 1 Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Channel:	Lowest channel	Test Voltage:	DC 5V

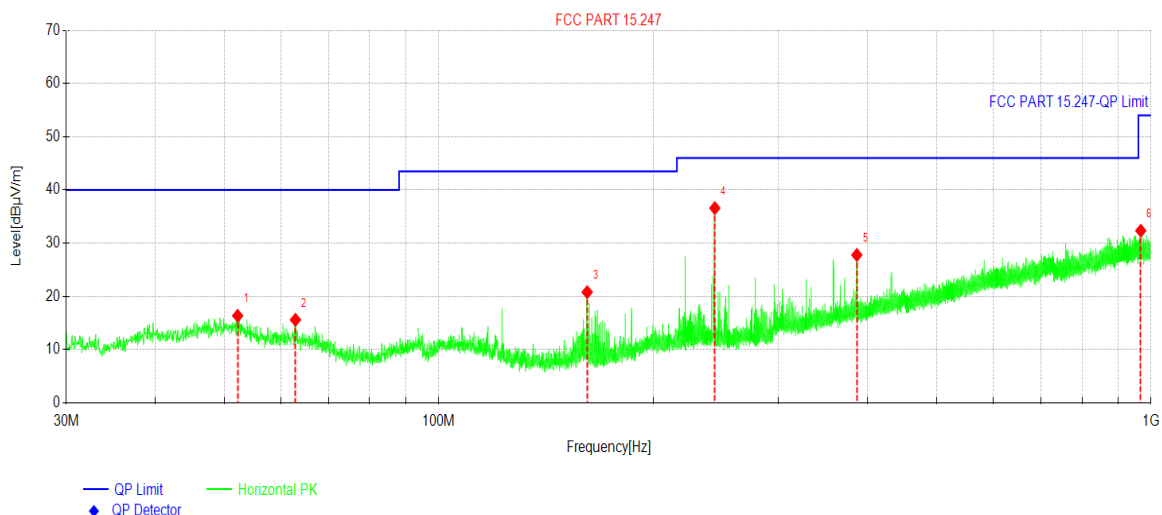


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	51.8735	39.12	-13.36	25.76	40.00	14.24	PK	Vertical
2	164.2965	46.12	-17.75	28.37	43.50	15.13	PK	Vertical
3	274.1005	47.09	-13.28	33.81	46.00	12.19	PK	Vertical
4	344.1345	38.27	-11.66	26.61	46.00	19.39	PK	Vertical
5	769.7220	32.87	-2.11	30.76	46.00	15.24	PK	Vertical
6	992.5795	30.88	0.83	31.71	54.00	22.29	PK	Vertical

Remark:

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

Product Name:	WIFI & BT Module	Product Model:	EWN-8822CSE2AA
Test By:	Alan Chen	Test mode:	802.11b ANT 1 Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Channel:	Lowest channel	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	52.2130	29.76	-13.39	16.37	40.00	23.63	PK	Horizontal
2	62.9315	30.25	-14.65	15.60	40.00	24.40	PK	Horizontal
3	161.629	38.40	-17.60	20.80	43.50	22.70	PK	Horizontal
4	244.127	50.26	-13.67	36.59	46.00	9.41	PK	Horizontal
5	386.378	38.13	-10.34	27.79	46.00	18.21	PK	Horizontal
6	967.505	31.35	1.00	32.35	54.00	21.65	PK	Horizontal

Remark:

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

Above 1GHz

ANT1:

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	63.05	-8.27	54.78	74.00	19.22	Vertical
4824.00	53.90	-8.27	45.63	74.00	28.37	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	57.43	-8.27	49.16	54.00	4.84	Vertical
4824.00	44.86	-8.27	36.59	54.00	17.41	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	62.68	-7.85	54.83	74.00	19.17	Vertical
4874.00	54.35	-7.85	46.50	74.00	27.50	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.94	-7.85	49.09	54.00	4.91	Vertical
4874.00	45.05	-7.85	37.20	54.00	16.80	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	63.20	-7.56	55.64	74.00	18.36	Vertical
4924.00	53.94	-7.56	46.38	74.00	27.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.74	-7.56	50.18	54.00	3.82	Vertical
4924.00	44.48	-7.56	36.92	54.00	17.08	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	62.96	-8.27	54.69	74.00	19.31	Vertical
4824.00	53.85	-8.27	45.58	74.00	28.42	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	57.19	-8.27	48.92	54.00	5.08	Vertical
4824.00	44.81	-8.27	36.54	54.00	17.46	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	62.56	-7.85	54.71	74.00	19.29	Vertical
4874.00	54.08	-7.85	46.23	74.00	27.77	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.27	-7.85	49.42	54.00	4.58	Vertical
4874.00	44.63	-7.85	36.78	54.00	17.22	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	62.78	-7.56	55.22	74.00	18.78	Vertical
4924.00	53.55	-7.56	45.99	74.00	28.01	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.12	-7.56	49.56	54.00	4.44	Vertical
4924.00	44.99	-7.56	37.43	54.00	16.57	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

ANT2:

802.11b						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	60.22	-8.27	51.95	74.00	22.05	Vertical
4824.00	53.13	-8.27	44.86	74.00	29.14	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	53.67	-8.27	45.40	54.00	8.60	Vertical
4824.00	44.58	-8.27	36.31	54.00	17.69	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	60.62	-7.85	52.77	74.00	21.23	Vertical
4874.00	53.28	-7.85	45.43	74.00	28.57	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.19	-7.85	45.34	54.00	8.66	Vertical
4874.00	44.44	-7.85	36.59	54.00	17.41	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	60.65	-7.56	53.09	74.00	20.91	Vertical
4924.00	52.77	-7.56	45.21	74.00	28.79	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	54.02	-7.56	46.46	54.00	7.54	Vertical
4924.00	44.60	-7.56	37.04	54.00	16.96	Horizontal
Remark: 3. Level = Reading + Factor. 4. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11g						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	62.51	-8.27	54.24	74.00	19.76	Vertical
4824.00	53.54	-8.27	45.27	74.00	28.73	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.93	-8.27	48.66	54.00	5.34	Vertical
4824.00	44.50	-8.27	36.23	54.00	17.77	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	62.43	-7.85	54.58	74.00	19.42	Vertical
4874.00	53.39	-7.85	45.54	74.00	28.46	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.23	-7.85	49.38	54.00	4.62	Vertical
4874.00	45.16	-7.85	37.31	54.00	16.69	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	62.72	-7.56	55.16	74.00	18.84	Vertical
4924.00	53.86	-7.56	46.30	74.00	27.70	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.96	-7.56	49.40	54.00	4.60	Vertical
4924.00	45.22	-7.56	37.66	54.00	16.34	Horizontal
Remark: 3. Level = Reading + Factor. 4. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	63.53	-8.27	55.26	74.00	18.74	Vertical
4824.00	53.99	-8.27	45.72	74.00	28.28	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	57.14	-8.27	48.87	54.00	5.13	Vertical
4824.00	44.48	-8.27	36.21	54.00	17.79	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	63.20	-7.85	55.35	74.00	18.65	Vertical
4874.00	54.23	-7.85	46.38	74.00	27.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.72	-7.85	49.87	54.00	4.13	Vertical
4874.00	45.17	-7.85	37.32	54.00	16.68	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	63.25	-7.56	55.69	74.00	18.31	Vertical
4924.00	54.20	-7.56	46.64	74.00	27.36	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.21	-7.56	49.65	54.00	4.35	Vertical
4924.00	44.50	-7.56	36.94	54.00	17.06	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	63.75	-8.06	55.69	74.00	18.31	Vertical
4844.00	53.86	-8.06	45.80	74.00	28.20	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	53.84	-8.06	45.78	54.00	8.22	Vertical
4844.00	44.46	-8.06	36.40	54.00	17.60	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	63.11	-7.85	55.26	74.00	18.74	Vertical
4874.00	54.11	-7.85	46.26	74.00	27.74	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	53.44	-7.85	45.59	54.00	8.41	Vertical
4874.00	44.64	-7.85	36.79	54.00	17.21	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	63.45	-7.66	55.79	74.00	18.21	Vertical
4904.00	54.25	-7.66	46.59	74.00	27.41	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	54.03	-7.66	46.37	54.00	7.63	Vertical
4904.00	44.59	-7.66	36.93	54.00	17.07	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

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