

FCC REPORT

(WIFI)

Applicant: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Address of Applicant: Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan District, Shenzhen

Equipment Under Test (EUT)

Product Name: Tracker

Model No.: cp311A

FCC ID: R38YLCP311A

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 20 Jan., 2022

Date of Test: 21 Jan., to 27 Jan., 2022

Date of report issued: 28 Jan., 2022

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	28 Jan., 2022	Original

Tested by:

Mike.ou
Test Engineer

Date:

28 Jan., 2022

Reviewed by:

Winner Zhang
Project Engineer

Date:

28 Jan., 2022

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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass ¹
Conducted Peak Output Power	15.247 (b)(3)	Pass ²
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass ¹
Power Spectral Density	15.247 (e)	Pass ¹
Band Edge	15.247 (d)	Pass ¹
Emissions in Restricted Frequency Bands	15.205 & 15.209	Pass ²
Conducted Spurious Emission	15.247 (d)	Pass ¹
Spurious Emission	15.205 & 15.209	Pass ²
Remark: 1. Pass ¹ : Items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch. (Date of Test: 2019/01/10-2019/01/24). The detailed data refer to Appendix- 2.4G WLAN. 2. Pass ² : These items are tested by JianYan Testing Group Shenzhen Co., Ltd. 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 C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02	

5 General Information

5.1 Client Information

Applicant:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address:	Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan District, Shenzhen
Manufacturer:	Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address:	Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan District, Shenzhen

5.2 General Description of E.U.T.

Product Name:	Tracker
Model No.:	cp311A
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz: 802.11n(HT40)
Channel numbers:	11: 802.11b/802.11g/802.11(HT20) 7: 802.11n(HT40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Integrated Antenna
Antenna gain:	-0.13dBi
Power supply:	☒ AC/DC Adapter
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for 802.11b/g/n(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Note: 1. For 802.11n-HT40 mode, the channel number is from 3 to 9; 2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.							

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
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

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 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>

5.8 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>

5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Band Reject Filter Group	Tonscend	JS0806	21B8060367	04-06-2021	04-05-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		

6 Test results and Measurement Data

6.1 Antenna requirement

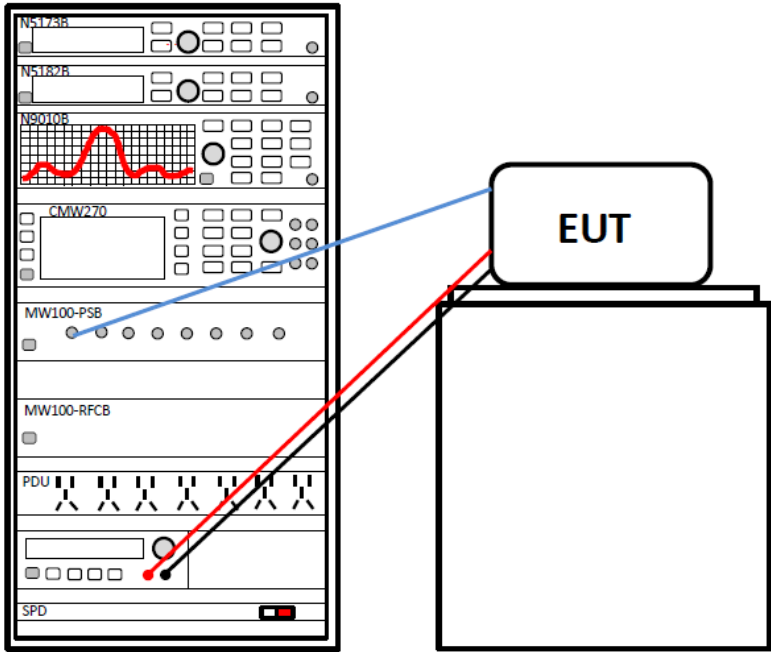
Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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: (4) 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 Wi-Fi antenna is an Integrated Antenna which cannot replace by end-user, the best case gain of the antenna is -0.13 dBi.	

6.2 Conducted Output Power

6.2.1 Re-test statement

Re-test statement: The EUT is operating at the same power level with the original testing of SGS-CSTC Standards Technical Services, Co Ltd. Shenzhen Branch.

6.2.2 Test Result

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

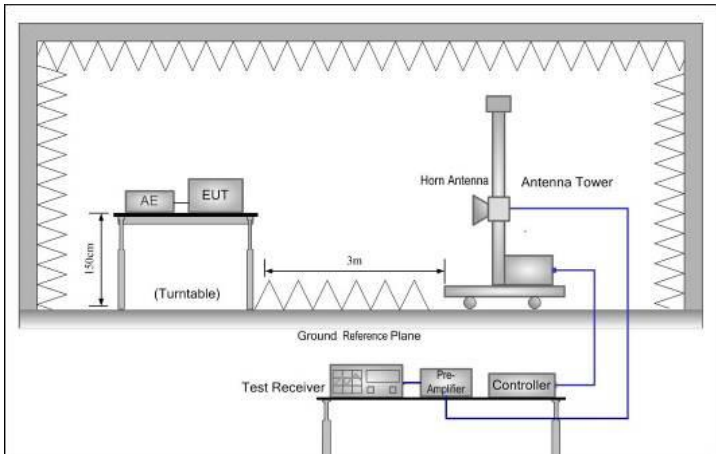
Measurement Data:

Mode	Test Channel	The Original Reports Level [dBm]	Re-Test Reports Level [dBm]	Power level
802.11b	Lowest	17.95	17.86	49
	Middle	17.34	17.09	46
	Highest	17.68	17.73	45
802.11g	Lowest	18.69	18.64	54
	Middle	18.37	18.27	52
	Highest	19.09	18.98	52
802.11n20	Lowest	17.86	17.56	52
	Middle	18.58	18.34	52
	Highest	18.19	17.95	52
802.11n40	Lowest	18.37	18.23	52
	Middle	18.84	18.68	52
	Highest	18.28	18.09	52

Remark:

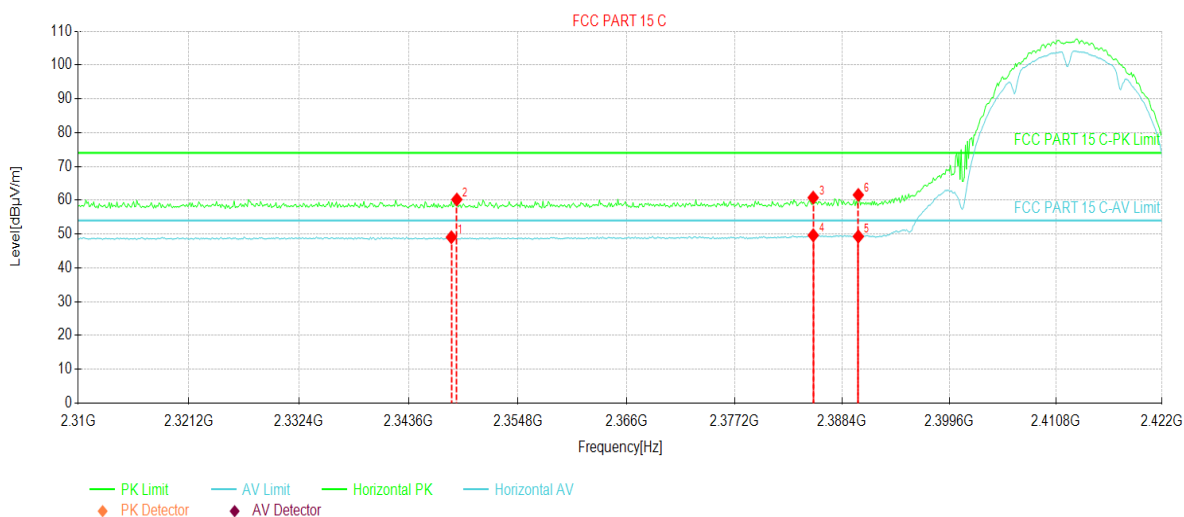
	The Original Reports	Re-Test Reports
File name:	test report 2.4G WLAN	Test Report 2.4G WIFI rev1
Test location:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	JianYan Testing Group Shenzhen Co., Ltd.
The output power is re-test at JianYan Testing Group Shenzhen Co., Ltd.		

6.3 Emissions in Restricted Frequency Bands

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Frequency Range:	2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	54.00		Average Value	
		74.00		Peak Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:					
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

802.11b mode:

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

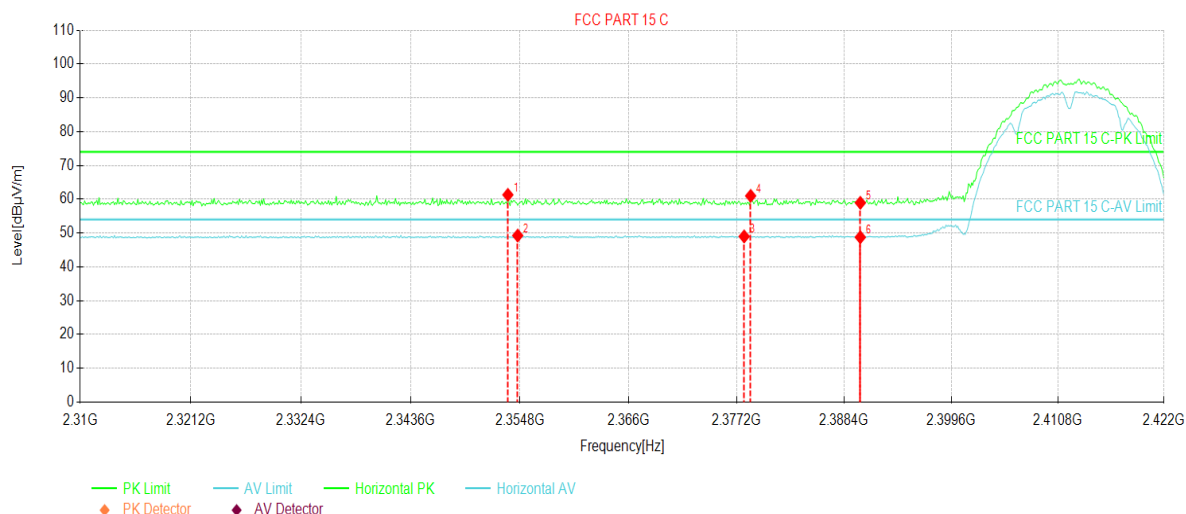


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2347.9	13.52	49.06	35.54	54.00	4.94	33	143	AV	Vertical
2	2348.5	24.66	60.20	35.54	74.00	13.80	60	134	PK	Vertical
3	2385.3	24.96	60.77	35.81	74.00	13.23	210	125	PK	Vertical
4	2385.3	13.83	49.64	35.81	54.00	4.36	196	139	AV	Vertical
5	2390.0	13.44	49.28	35.84	54.00	4.72	313	150	AV	Vertical
6	2390.0	25.73	61.57	35.84	74.00	12.43	341	162	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

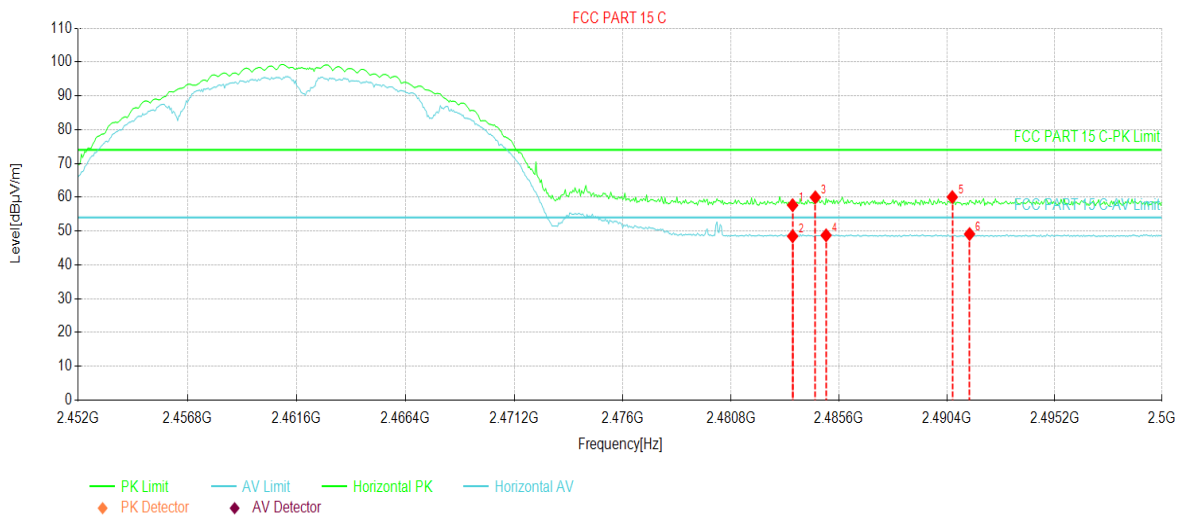


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2353.5	25.73	61.31	35.58	74.00	12.69	179	133	PK	Horizontal
2	2354.5	13.67	49.26	35.59	54.00	4.74	192	126	AV	Horizontal
3	2377.9	13.25	49.00	35.75	54.00	5.00	250	143	AV	Horizontal
4	2378.6	25.24	61.00	35.76	74.00	13.00	237	151	PK	Horizontal
5	2390.0	23.10	58.94	35.84	74.00	15.06	301	157	PK	Horizontal
6	2390.0	12.92	48.76	35.84	54.00	5.24	295	163	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

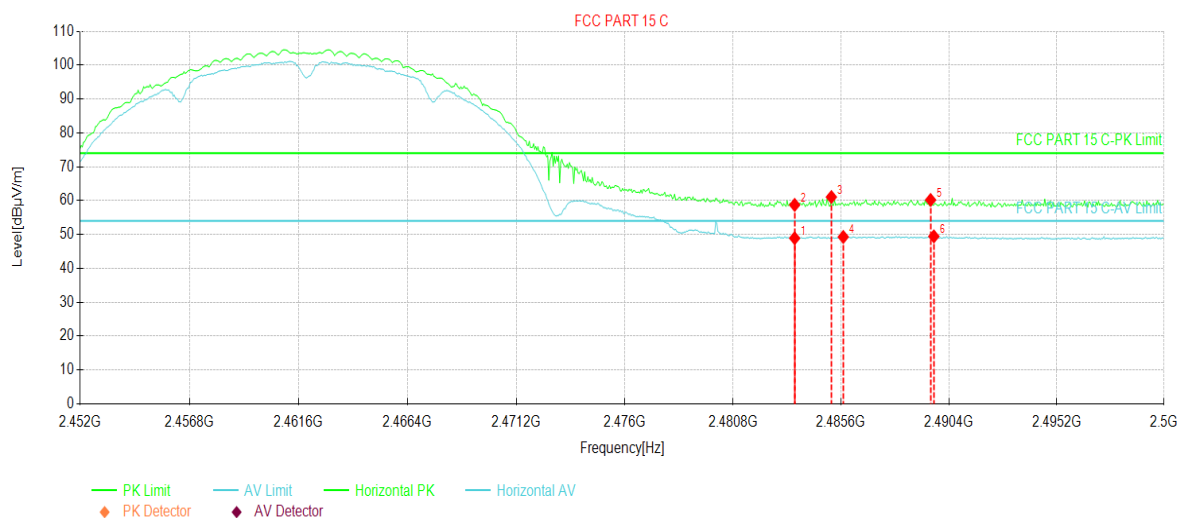


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	21.93	57.65	35.72	74.00	16.35	97	140	PK	Vertical
2	2483.5	12.75	48.47	35.72	54.00	5.53	114	151	AV	Vertical
3	2484.5	24.26	59.98	35.72	74.00	14.02	234	137	PK	Vertical
4	2485.0	13.03	48.74	35.71	54.00	5.26	262	131	AV	Vertical
5	2490.6	24.34	60.04	35.70	74.00	13.96	324	160	PK	Vertical
6	2491.4	13.41	49.11	35.70	54.00	4.89	349	168	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%



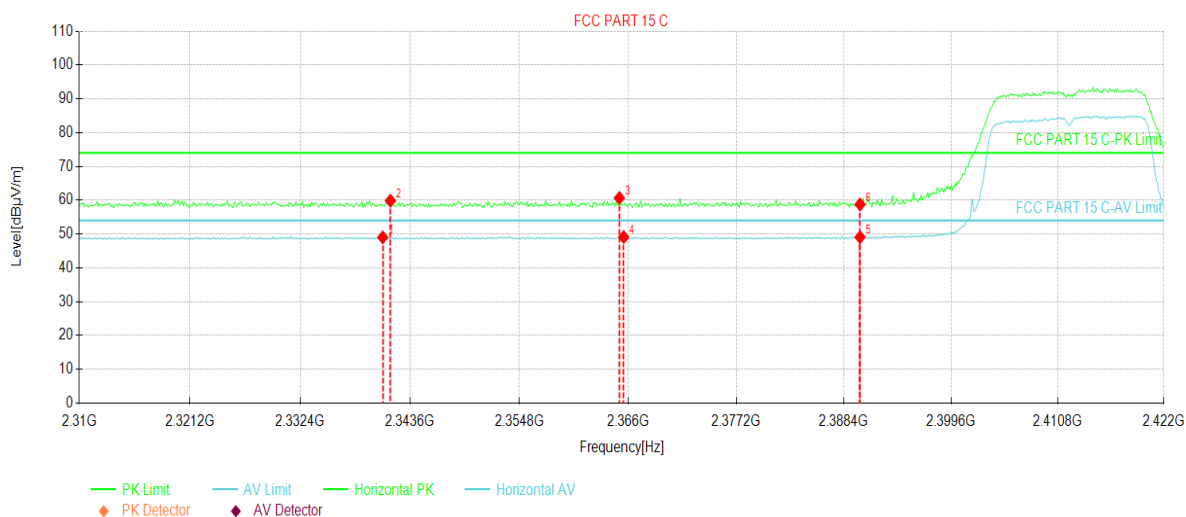
Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	13.19	48.91	35.72	54.00	5.09	224	124	AV	Horizontal
2	2483.5	23.02	58.74	35.72	74.00	15.26	261	135	PK	Horizontal
3	2485.1	25.35	61.06	35.71	74.00	12.94	301	142	PK	Horizontal
4	2485.6	13.57	49.28	35.71	54.00	4.72	340	149	AV	Horizontal
5	2489.5	24.50	60.20	35.70	74.00	13.80	359	156	PK	Horizontal
6	2489.7	13.74	49.44	35.70	54.00	4.56	19	164	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

802.11g mode:

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

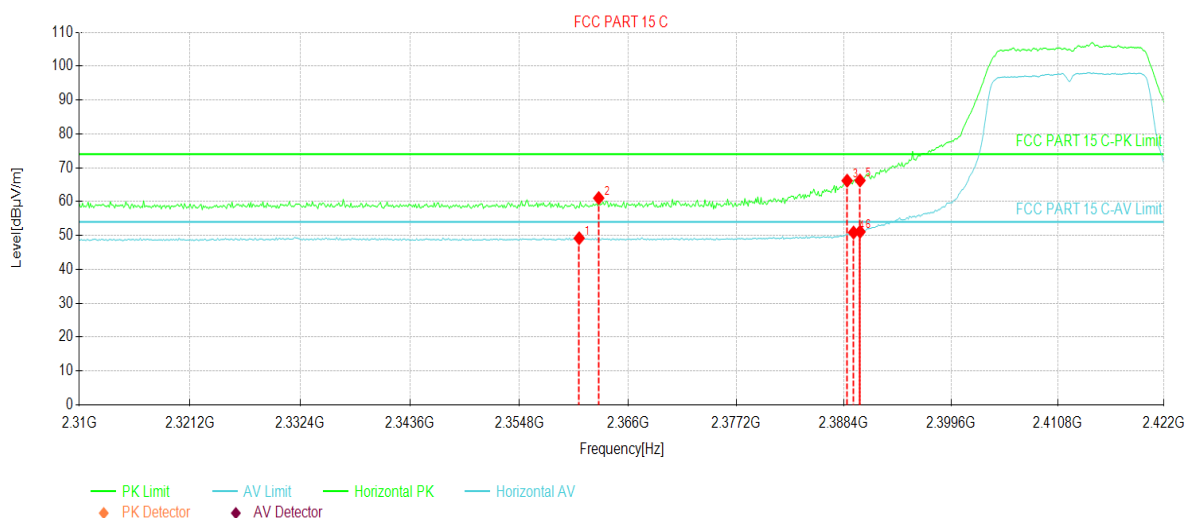


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2340.8	13.53	49.02	35.49	54.00	4.98	254	132	AV	Vertical
2	2341.5	24.37	59.87	35.50	74.00	14.13	289	141	PK	Vertical
3	2365.1	25.01	60.67	35.66	74.00	13.33	303	156	PK	Vertical
4	2365.5	13.46	49.13	35.67	54.00	4.87	299	149	AV	Vertical
5	2390.0	13.23	49.07	35.84	54.00	4.93	45	160	AV	Vertical
6	2390.0	22.93	58.77	35.84	74.00	15.23	80	164	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%



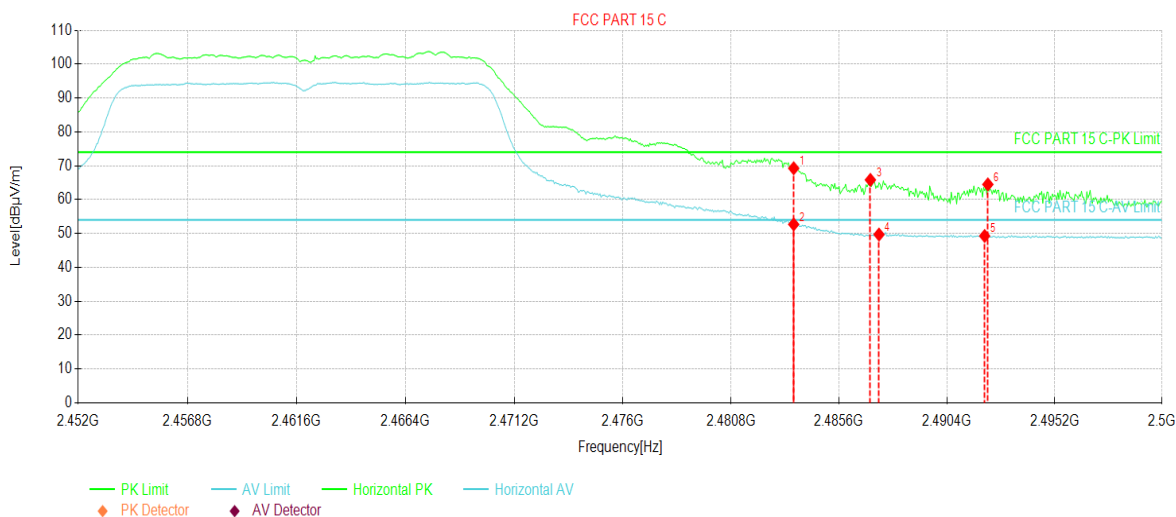
Suspected Data List

NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2360.9	13.57	49.20	35.63	54.00	4.80	189	143	AV	Horizontal
2	2362.9	25.40	61.05	35.65	74.00	12.95	205	137	PK	Horizontal
3	2388.7	30.35	66.18	35.83	74.00	7.82	58	151	PK	Horizontal
4	2389.4	15.05	50.88	35.83	54.00	3.12	79	159	AV	Horizontal
5	2390.0	30.41	66.25	35.84	74.00	7.75	294	162	PK	Horizontal
6	2390.0	15.26	51.10	35.84	54.00	2.90	306	171	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

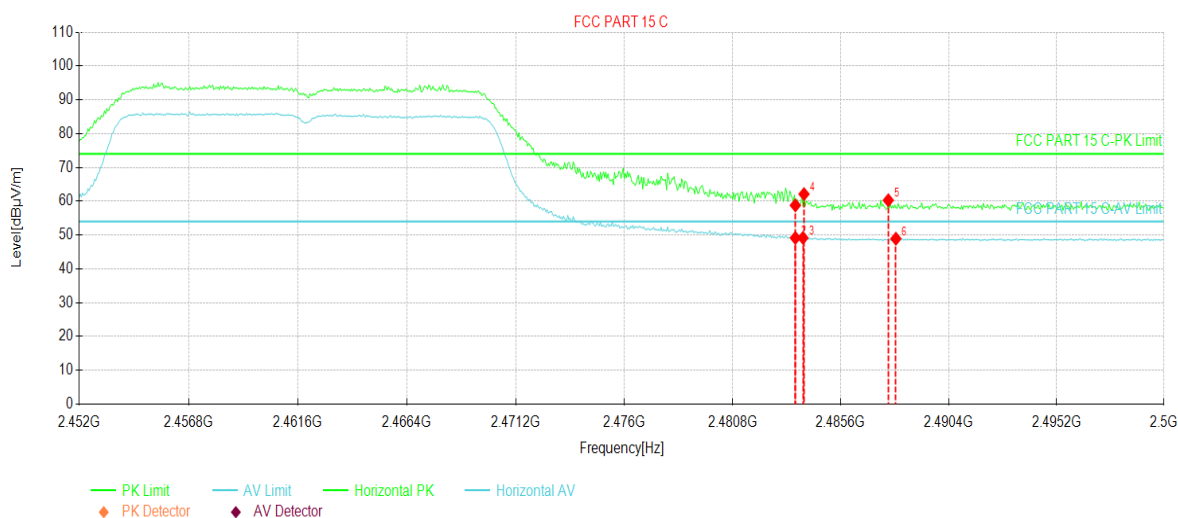


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	33.54	69.26	35.72	74.00	4.74	316	128	PK	Vertical
2	2483.5	16.97	52.69	35.72	54.00	1.31	291	133	AV	Vertical
3	2486.9	30.12	65.83	35.71	74.00	8.17	194	139	PK	Vertical
4	2487.3	13.99	49.70	35.71	54.00	4.30	176	143	AV	Vertical
5	2492.0	13.58	49.28	35.70	54.00	4.72	58	150	AV	Vertical
6	2492.2	28.80	64.50	35.70	74.00	9.50	77	167	PK	Vertical

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%



Suspected Data List

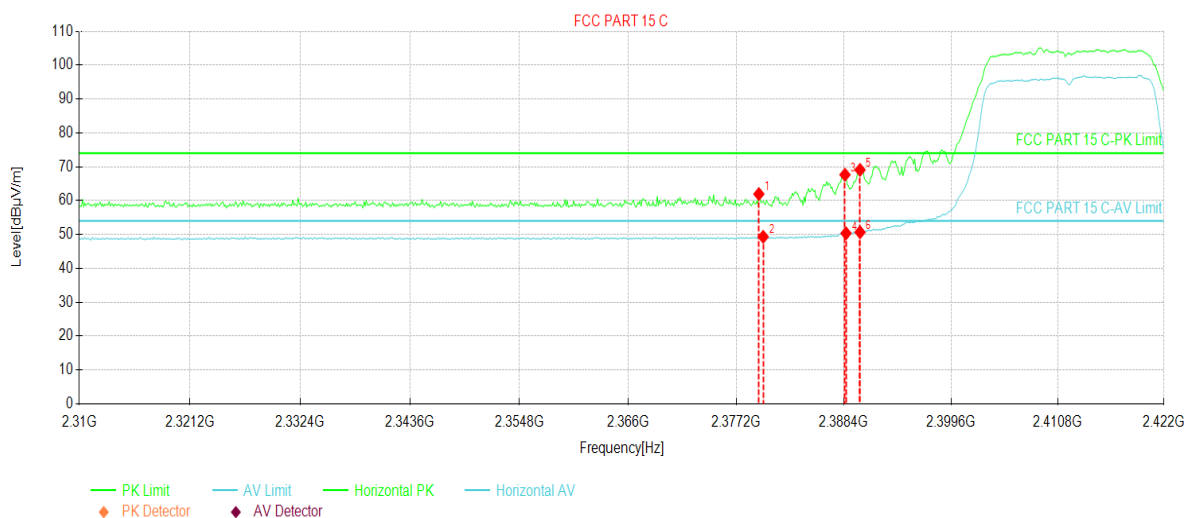
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	23.07	58.79	35.72	74.00	15.21	276	141	PK	Horizontal
2	2483.5	13.44	49.16	35.72	54.00	4.84	243	149	AV	Horizontal
3	2483.9	13.45	49.17	35.72	54.00	4.83	185	138	AV	Horizontal
4	2483.9	26.40	62.12	35.72	74.00	11.88	201	150	PK	Horizontal
5	2487.7	24.58	60.29	35.71	74.00	13.71	337	154	PK	Horizontal
6	2488.0	13.21	48.92	35.71	54.00	5.08	356	165	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

802.11n(HT20):

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

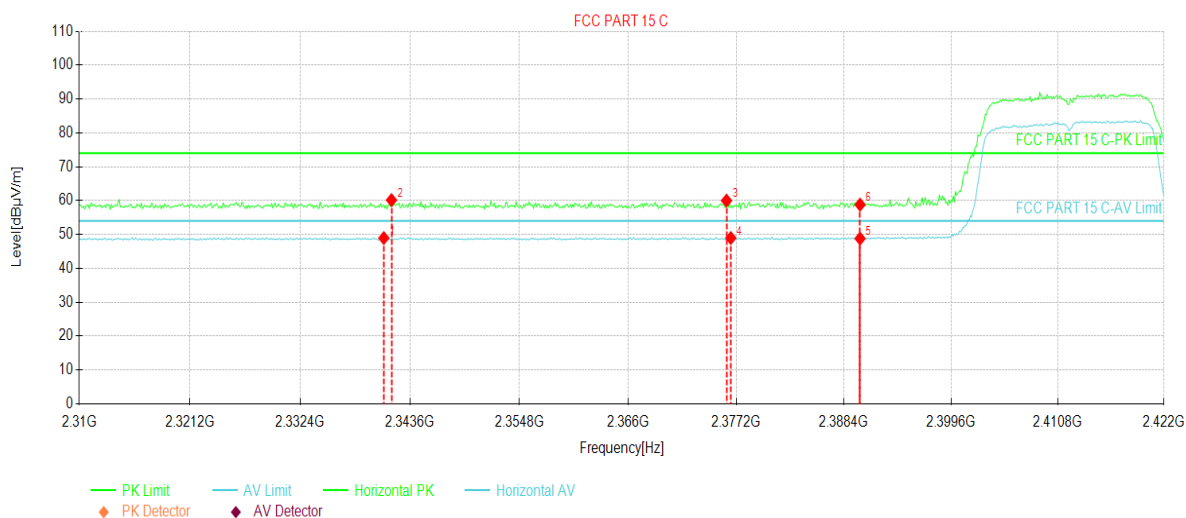


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2379.5	26.19	61.95	35.76	74.00	12.05	177	144	PK	Vertical
2	2380.0	13.55	49.32	35.77	54.00	4.68	192	135	AV	Vertical
3	2388.5	31.80	67.63	35.83	74.00	6.37	68	157	PK	Vertical
4	2388.6	14.53	50.36	35.83	54.00	3.64	82	151	AV	Vertical
5	2390.0	33.23	69.07	35.84	74.00	4.93	249	160	PK	Vertical
6	2390.0	14.84	50.68	35.84	54.00	3.32	221	167	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

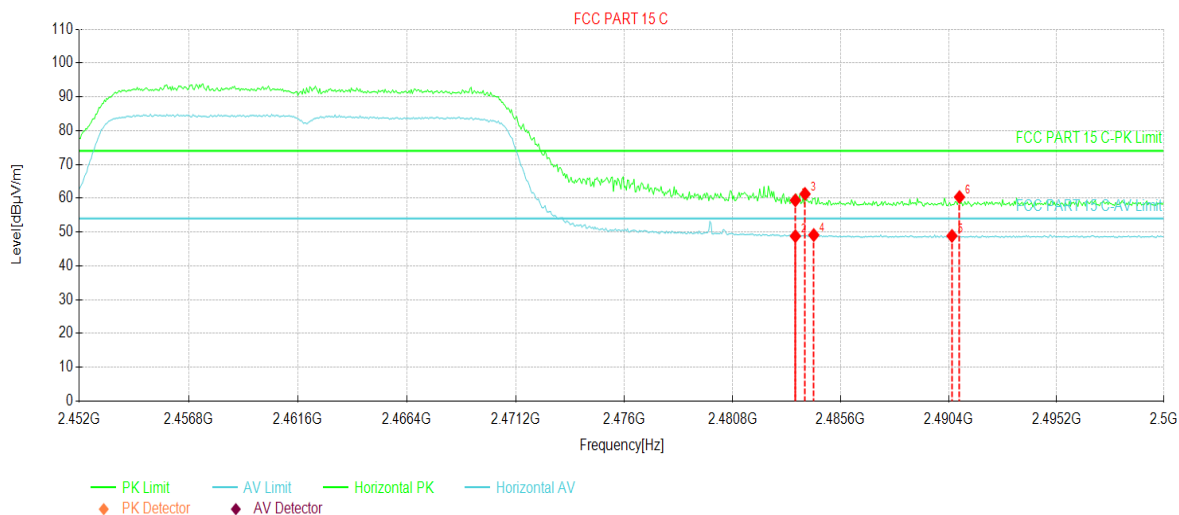


Suspected Data List											
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity	
1	2340.9	13.46	48.95	35.49	54.00	5.05	79	135	AV	Horizontal	
2	2341.6	24.66	60.16	35.50	74.00	13.84	93	142	PK	Horizontal	
3	2376.1	24.28	60.02	35.74	74.00	13.98	187	139	PK	Horizontal	
4	2376.6	13.23	48.97	35.74	54.00	5.03	202	150	AV	Horizontal	
5	2390.0	12.96	48.80	35.84	54.00	5.20	316	164	AV	Horizontal	
6	2390.0	22.97	58.81	35.84	74.00	15.19	320	169	PK	Horizontal	

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Humi: 57%

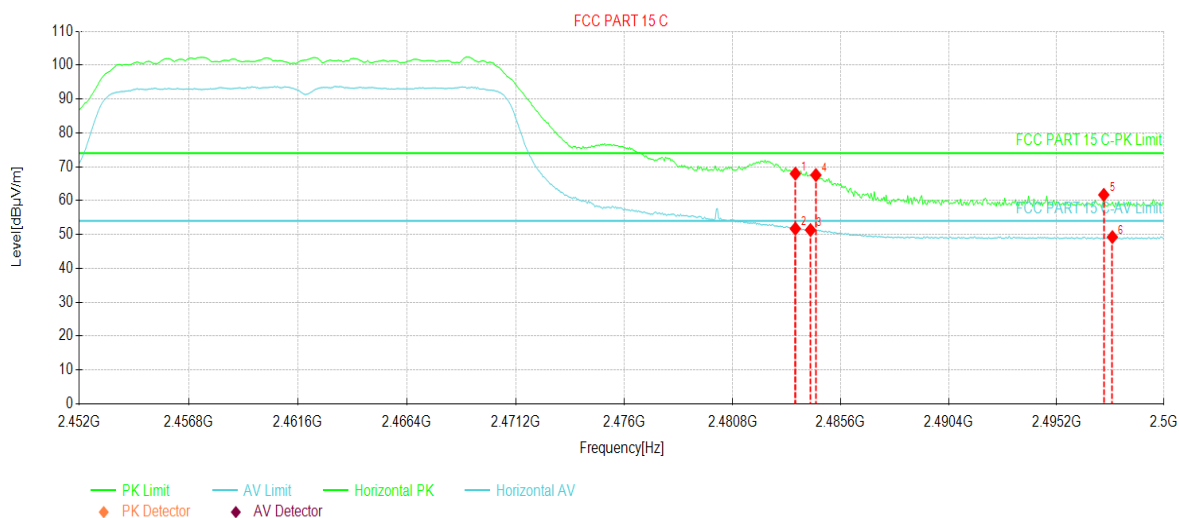


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	23.66	59.38	35.72	74.00	14.62	15	144	PK	Vertical
2	2483.5	13.07	48.79	35.72	54.00	5.21	39	132	AV	Vertical
3	2484.0	25.54	61.26	35.72	74.00	12.74	204	139	PK	Vertical
4	2484.4	13.40	49.12	35.72	54.00	4.88	225	151	AV	Vertical
5	2490.5	13.16	48.86	35.70	54.00	5.14	301	157	AV	Vertical
6	2490.8	24.66	60.36	35.70	74.00	13.64	324	163	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%



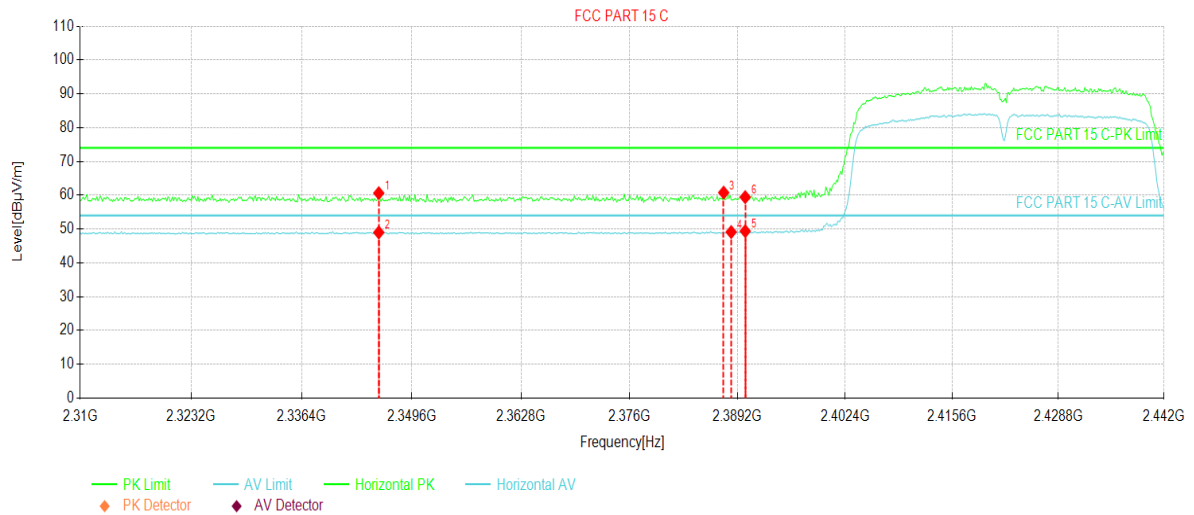
Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	32.24	67.96	35.72	74.00	6.04	255	135	PK	Horizontal
2	2483.5	15.99	51.71	35.72	54.00	2.29	232	130	AV	Horizontal
3	2484.2	15.60	51.32	35.72	54.00	2.68	156	156	AV	Horizontal
4	2484.4	31.83	67.55	35.72	74.00	6.45	180	161	PK	Horizontal
5	2497.3	26.02	61.71	35.69	74.00	12.29	25	149	PK	Horizontal
6	2497.6	13.55	49.24	35.69	54.00	4.76	46	158	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

802.11n(HT40):

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

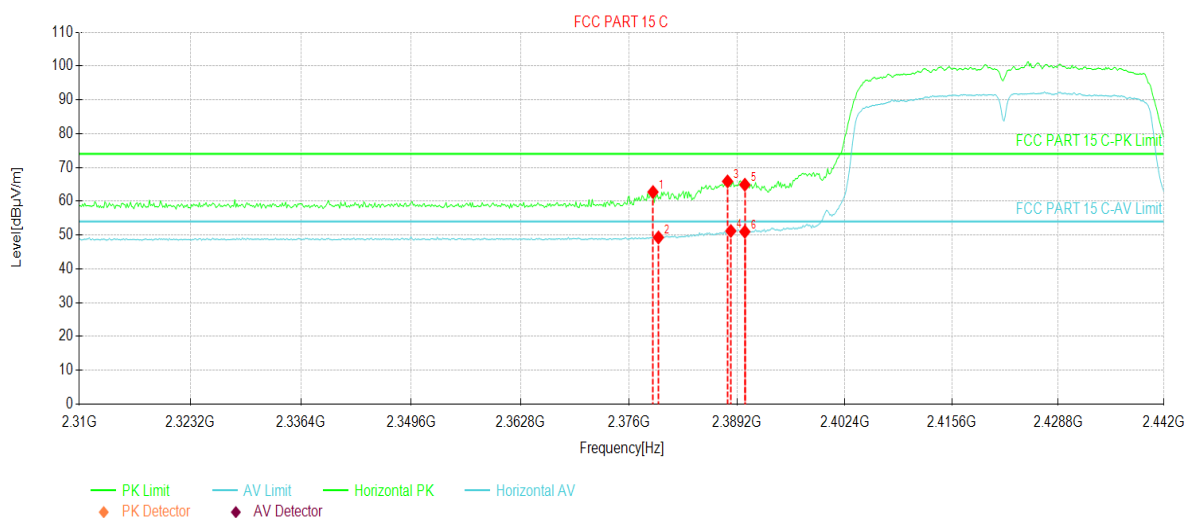


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2345.6	25.11	60.63	35.52	74.00	13.37	319	138	PK	Vertical
2	2345.6	13.47	48.99	35.52	54.00	5.01	288	129	AV	Vertical
3	2387.4	24.96	60.78	35.82	74.00	13.22	217	140	PK	Vertical
4	2388.4	13.29	49.12	35.83	54.00	4.88	196	151	AV	Vertical
5	2390.1	13.54	49.38	35.84	54.00	4.62	29	158	AV	Vertical
6	2390.1	23.60	59.44	35.84	74.00	14.56	357	165	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

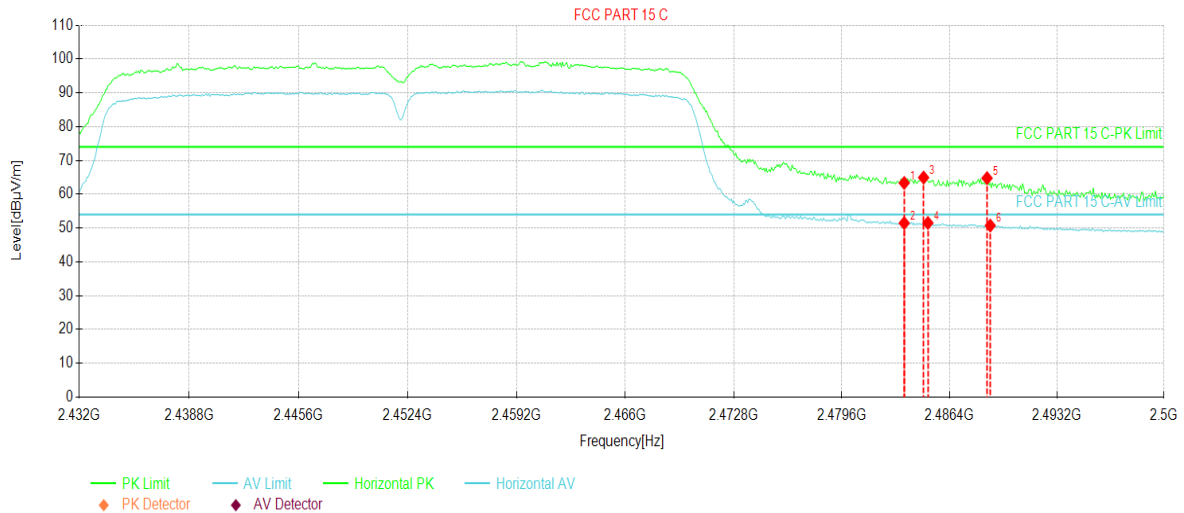


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2378.9	26.96	62.72	35.76	74.00	11.28	316	158	PK	Horizontal
2	2379.5	13.53	49.29	35.76	54.00	4.71	296	150	AV	Horizontal
3	2388.0	30.05	65.87	35.82	74.00	8.13	37	135	PK	Horizontal
4	2388.4	15.37	51.20	35.83	54.00	2.80	49	142	AV	Horizontal
5	2390.1	29.06	64.90	35.84	74.00	9.10	174	160	PK	Horizontal
6	2390.1	15.14	50.98	35.84	54.00	3.02	190	155	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Humi: 57%

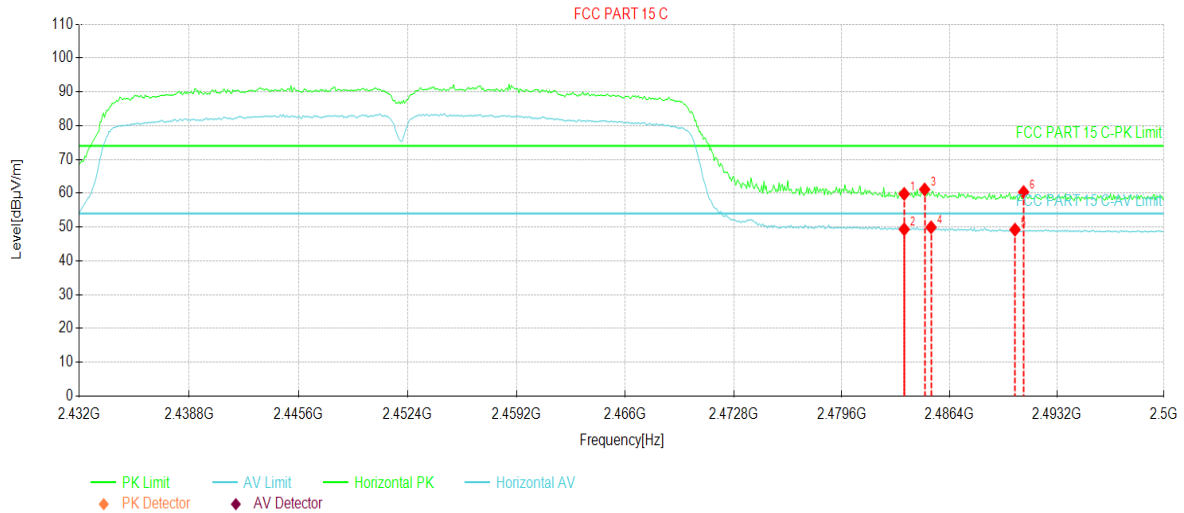


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	27.63	63.35	35.72	74.00	10.65	123	135	PK	Vertical
2	2483.5	15.74	51.46	35.72	54.00	2.54	145	124	AV	Vertical
3	2484.7	29.22	64.94	35.72	74.00	9.06	215	156	PK	Vertical
4	2485.0	15.80	51.51	35.71	54.00	2.49	240	148	AV	Vertical
5	2488.7	29.06	64.77	35.71	74.00	9.23	304	161	PK	Vertical
6	2488.9	15.03	50.74	35.71	54.00	3.26	323	168	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%



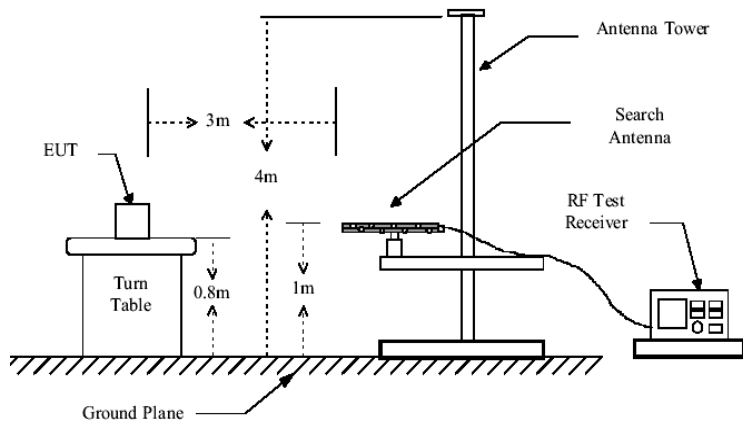
Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	2483.5	24.09	59.81	35.72	74.00	14.19	264	165	PK	Horizontal
2	2483.5	13.62	49.34	35.72	54.00	4.66	280	159	AV	Horizontal
3	2484.8	25.41	61.12	35.71	74.00	12.88	336	154	PK	Horizontal
4	2485.2	14.21	49.92	35.71	54.00	4.08	311	140	AV	Horizontal
5	2490.5	13.52	49.22	35.70	54.00	4.78	108	135	AV	Horizontal
6	2491.0	24.63	60.33	35.70	74.00	13.67	91	131	PK	Horizontal

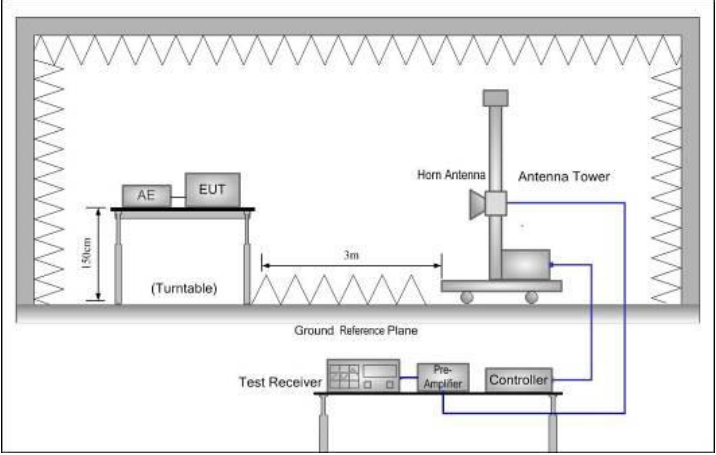
Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

6.4 Spurious Emission

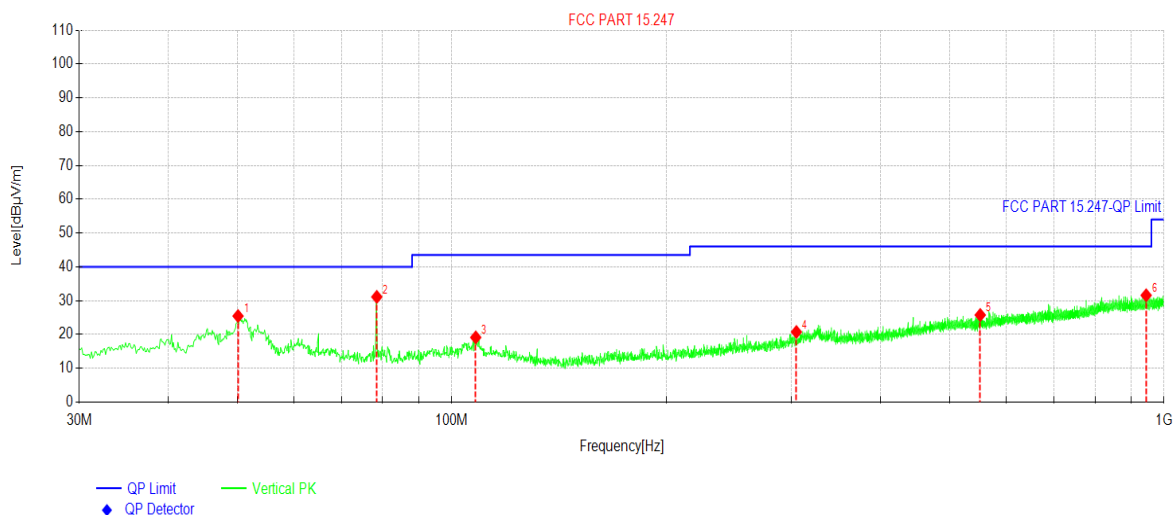
6.4.1 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Frequency Range:	9kHz to 25GHz				
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @3m)			Remark
	30MHz-88MHz	40.0			Quasi-peak Value
	88MHz-216MHz	43.5			Quasi-peak Value
	216MHz-960MHz	46.0			Quasi-peak Value
	960MHz-1GHz	54.0			Quasi-peak Value
	Above 1GHz	54.0			Average Value
74.0			Peak Value		
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:	Below 1GHz  Above 1GHz				

	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):
Below 1GHz:

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

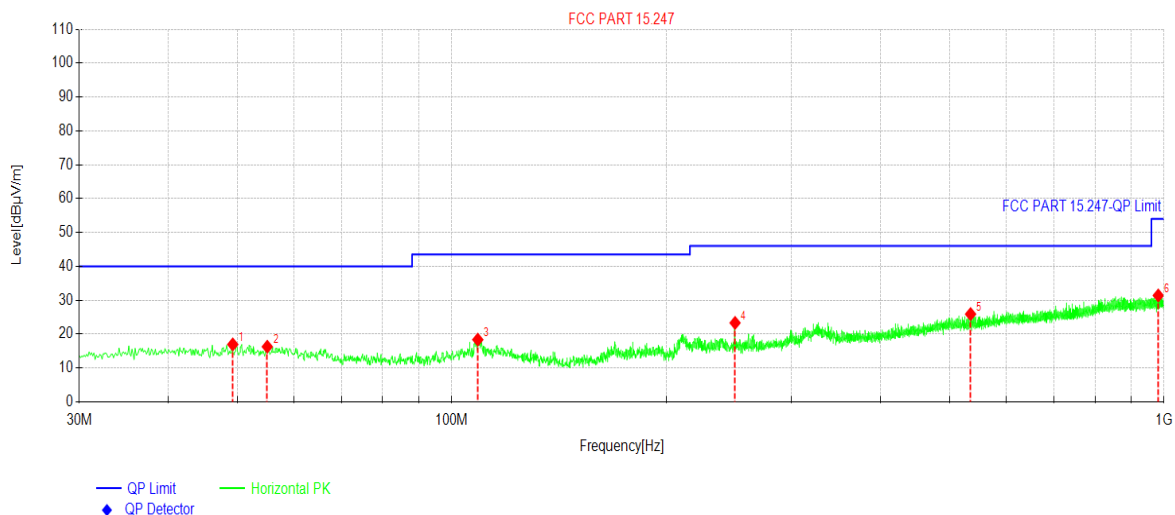


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Polarity
1	50.1275	40.16	25.45	-14.71	40.00	14.55	221	125	Vertical
2	78.5000	48.40	31.13	-17.27	40.00	8.87	135	102	Vertical
3	108.085	35.06	19.13	-15.93	43.50	24.37	13	113	Vertical
4	304.752	33.33	20.75	-12.58	46.00	25.25	348	108	Vertical
5	552.102	32.59	25.77	-6.82	46.00	20.23	16	114	Vertical
6	943.982	32.71	31.58	-1.13	46.00	14.42	344	128	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Product name:	Tracker	Product model:	cp311A
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Humi: 57%



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Polarity
1	49.2788	31.72	16.96	-14.76	40.00	23.04	156	112	Horizontal
2	55.0988	30.90	16.28	-14.62	40.00	23.72	214	109	Horizontal
3	108.812	34.25	18.36	-15.89	43.50	25.14	316	101	Horizontal
4	249.947	37.11	23.32	-13.79	46.00	22.68	57	124	Horizontal
5	535.127	32.74	25.91	-6.83	46.00	20.09	194	118	Horizontal
6	981.691	32.28	31.40	-0.88	54.00	22.60	154	131	Horizontal

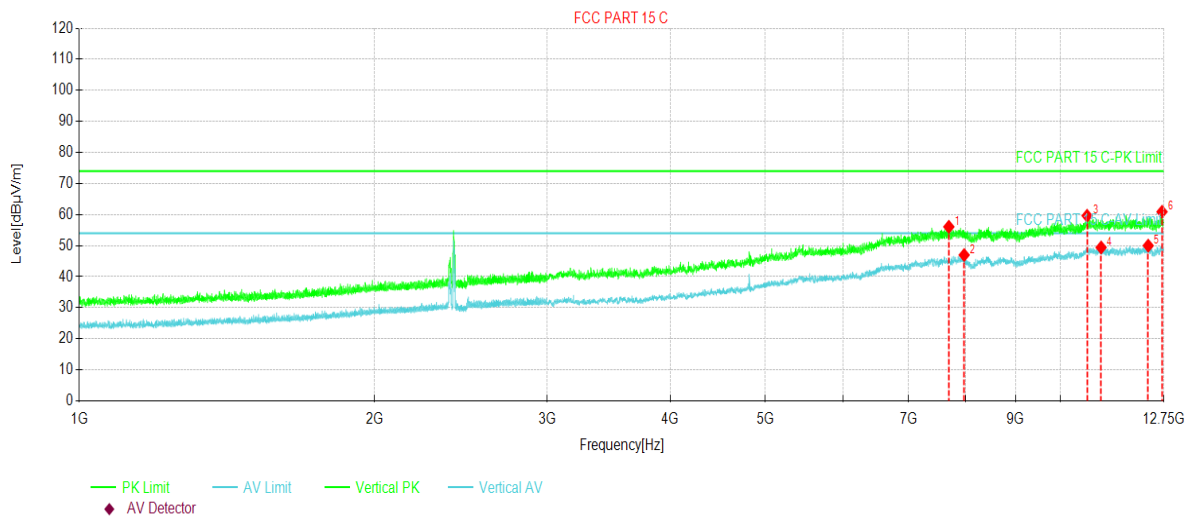
Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Above 1GHz

Remark: When testing spurs above 1GHz, use Band Reject Filter Group to filter out fundamental signal.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11b Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

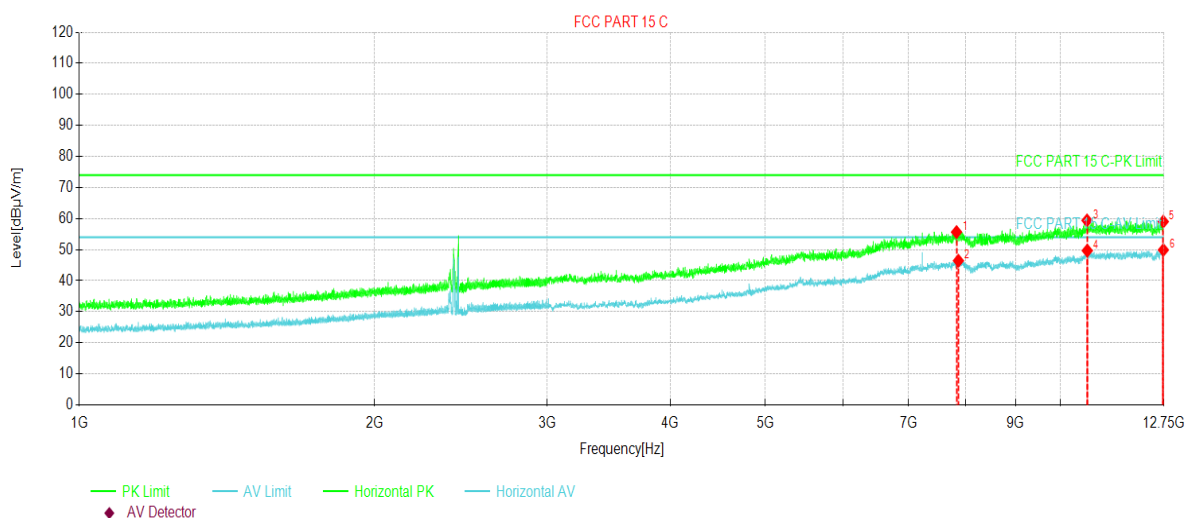


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7695.8	55.49	56.06	0.57	74.00	17.94	123	136	PK	Vertical
2	7977.3	46.05	46.97	0.92	54.00	7.03	269	159	AV	Vertical
3	10645.	52.53	59.61	7.08	74.00	14.39	230	169	PK	Vertical
4	11001.	41.92	49.39	7.47	54.00	4.61	109	145	AV	Vertical
5	12286.	42.15	49.99	7.84	54.00	4.01	312	147	AV	Vertical
6	12690.	52.54	60.89	8.35	74.00	13.11	45	142	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11b Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%

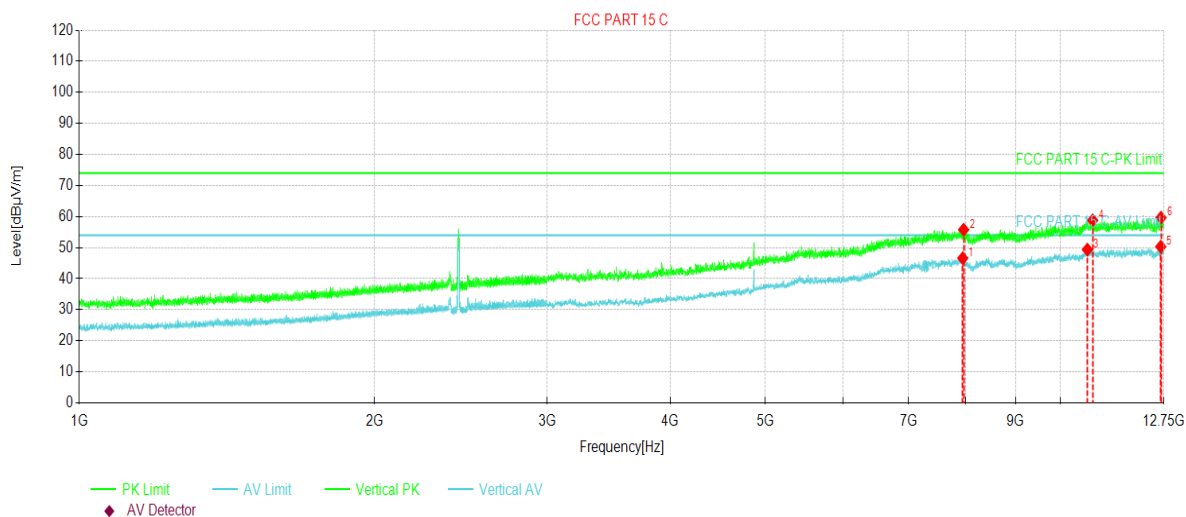


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7836.0	54.64	55.66	1.02	74.00	18.34	13	130	PK	Horizontal
2	7870.1	45.42	46.43	1.01	54.00	7.57	354	132	AV	Horizontal
3	10642.	52.32	59.40	7.08	74.00	14.60	25	156	PK	Horizontal
4	10650.	42.58	49.68	7.10	54.00	4.32	345	168	AV	Horizontal
5	12729.	50.62	59.03	8.41	74.00	14.97	60	149	PK	Horizontal
6	12731.	41.48	49.89	8.41	54.00	4.11	300	157	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11b Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

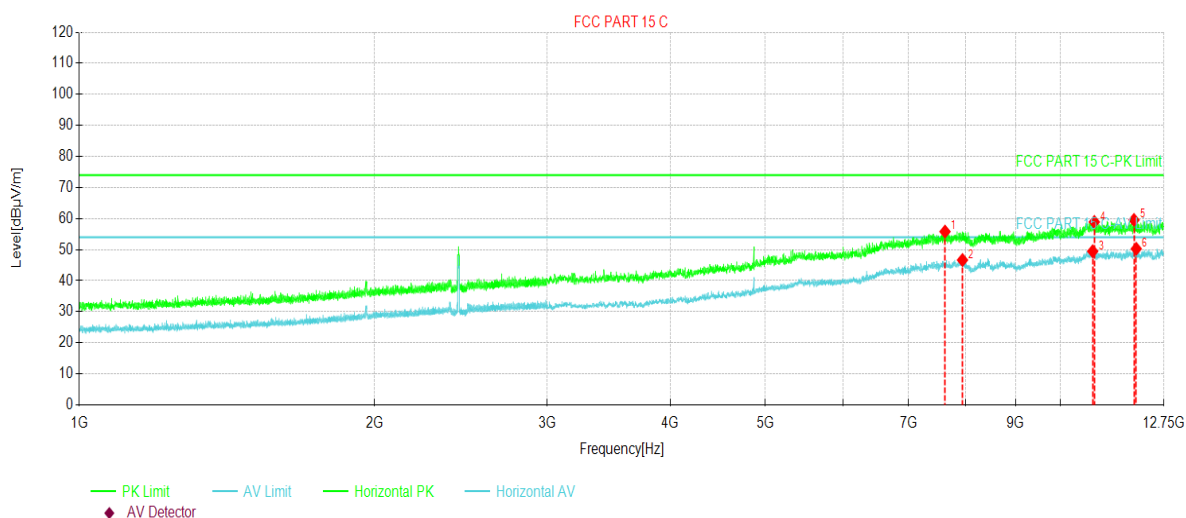


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7950.5	45.65	46.60	0.95	54.00	7.40	160	145	AV	Vertical
2	7967.6	54.83	55.77	0.94	74.00	18.23	178	146	PK	Vertical
3	10651.	42.26	49.36	7.10	54.00	4.64	190	158	AV	Vertical
4	10785.	51.62	58.78	7.16	74.00	15.22	129	147	PK	Vertical
5	12653.	42.07	50.30	8.23	54.00	3.70	139	169	AV	Vertical
6	12661.	51.40	59.65	8.25	74.00	14.35	196	136	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11b Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%

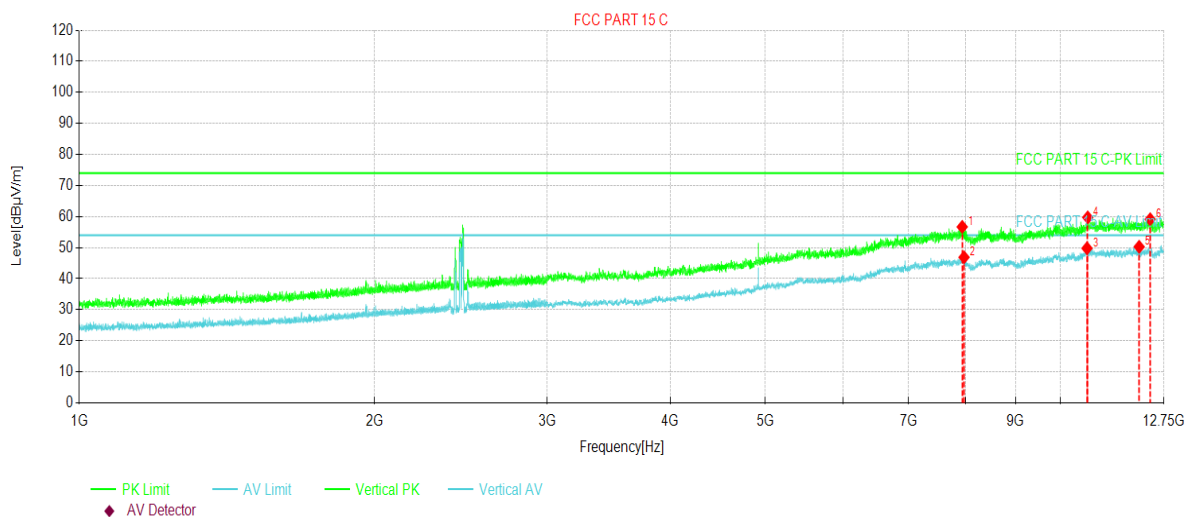


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7626.3	54.90	55.80	0.90	74.00	18.20	9	169	PK	Horizontal
2	7945.6	45.68	46.64	0.96	54.00	7.36	356	158	AV	Horizontal
3	10785.	42.30	49.46	7.16	54.00	4.54	19	147	AV	Horizontal
4	10826.	51.72	58.90	7.18	74.00	15.10	345	156	PK	Horizontal
5	11883.	52.01	59.55	7.54	74.00	14.45	38	134	PK	Horizontal
6	11946.	42.66	50.27	7.61	54.00	3.73	345	156	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11b High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

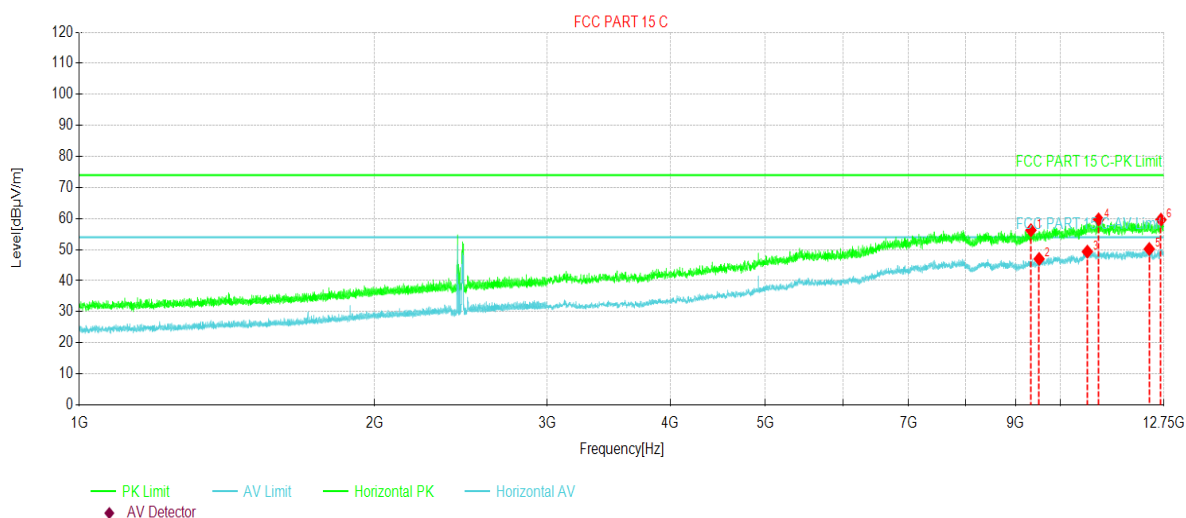


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7940.8	55.71	56.68	0.97	74.00	17.32	134	131	PK	Vertical
2	7974.9	45.96	46.89	0.93	54.00	7.11	215	156	AV	Vertical
3	10642.	42.69	49.77	7.08	54.00	4.23	320	154	AV	Vertical
4	10661.	52.58	59.72	7.14	74.00	14.28	45	156	PK	Vertical
5	12028.	42.66	50.26	7.60	54.00	3.74	145	148	AV	Vertical
6	12342.	51.29	59.12	7.83	74.00	14.88	225	159	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11b High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%



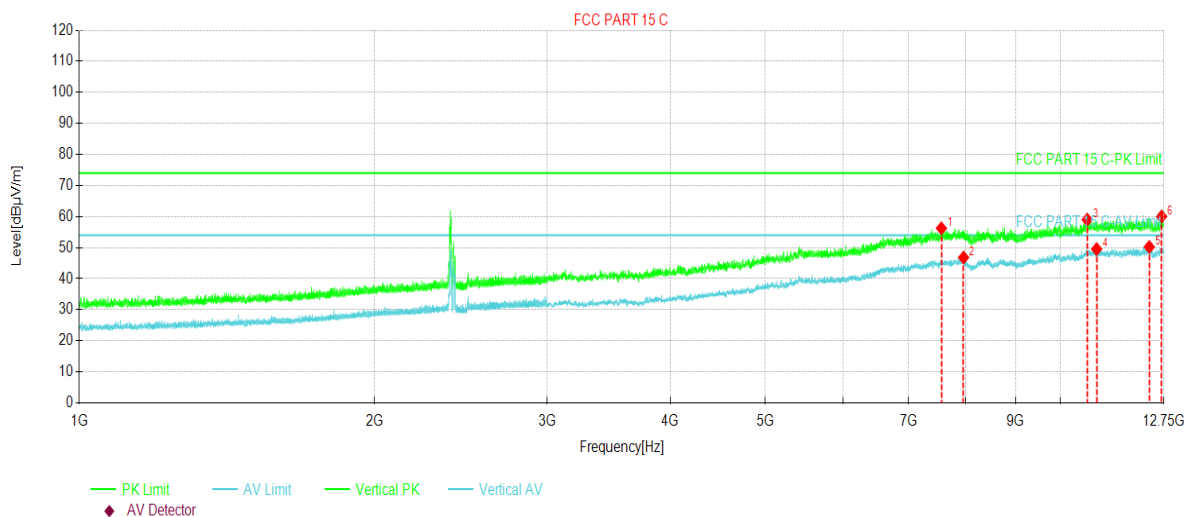
Suspected Data List

NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	9330.1	53.12	56.26	3.14	74.00	17.74	233	139	PK	Horizontal
2	9511.7	43.77	47.00	3.23	54.00	7.00	102	148	AV	Horizontal
3	10651.	42.24	49.34	7.10	54.00	4.66	345	147	AV	Horizontal
4	10935.	52.34	59.70	7.36	74.00	14.30	20	136	PK	Horizontal
5	12316.	42.36	50.19	7.83	54.00	3.81	301	159	AV	Horizontal
6	12658.	51.38	59.62	8.24	74.00	14.38	65	148	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11g Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

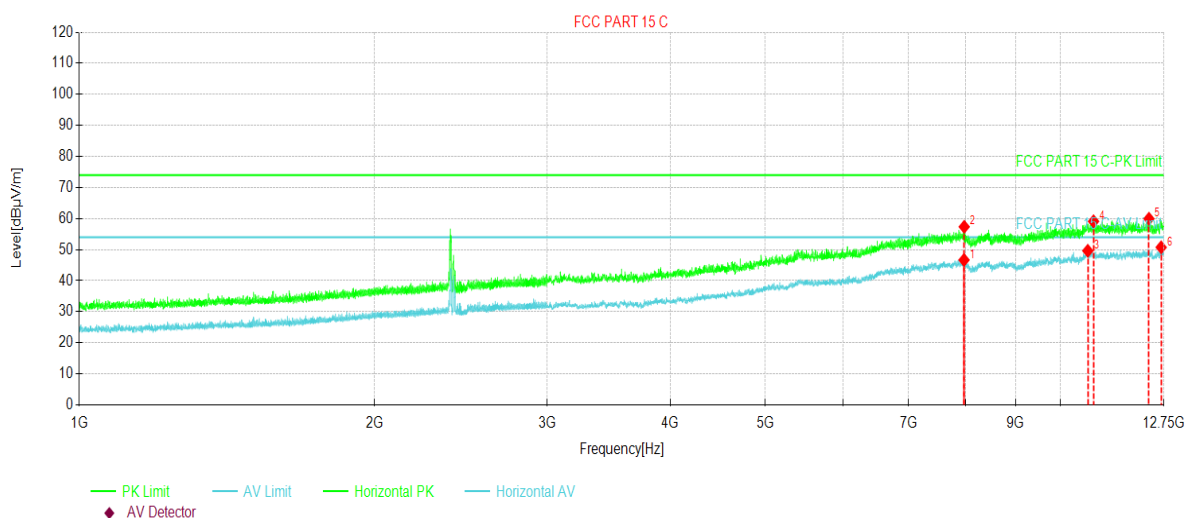


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7563.0	55.57	56.22	0.65	74.00	17.78	110	169	PK	Vertical
2	7966.4	45.88	46.82	0.94	54.00	7.18	250	148	AV	Vertical
3	10647.	51.90	58.99	7.09	74.00	15.01	290	132	PK	Vertical
4	10885.	42.24	49.52	7.28	54.00	4.48	70	156	AV	Vertical
5	12318.	42.39	50.22	7.83	54.00	3.78	15	147	AV	Vertical
6	12680.	51.70	60.02	8.32	74.00	13.98	345	156	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11g Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%



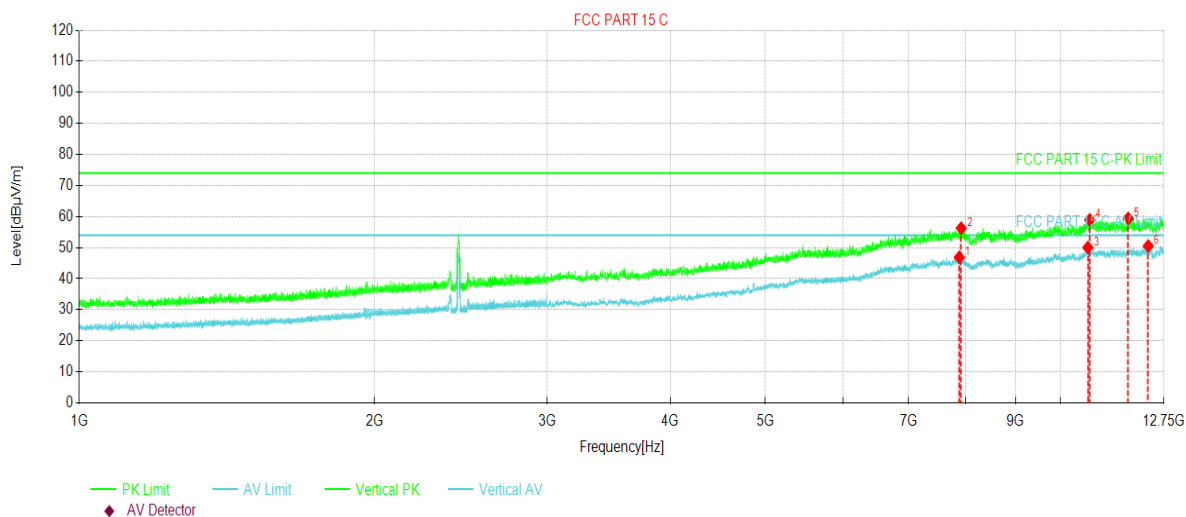
Suspected Data List

NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7974.9	45.73	46.66	0.93	54.00	7.34	160	156	AV	Horizontal
2	7978.5	56.43	57.35	0.92	74.00	16.65	180	154	PK	Horizontal
3	10662.	42.47	49.61	7.14	54.00	4.39	190	146	AV	Horizontal
4	10807.	51.94	59.09	7.15	74.00	14.91	150	136	PK	Horizontal
5	12307.	52.10	59.93	7.83	74.00	14.07	164	132	PK	Horizontal
6	12665.	42.46	50.73	8.27	54.00	3.27	186	141	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11g Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

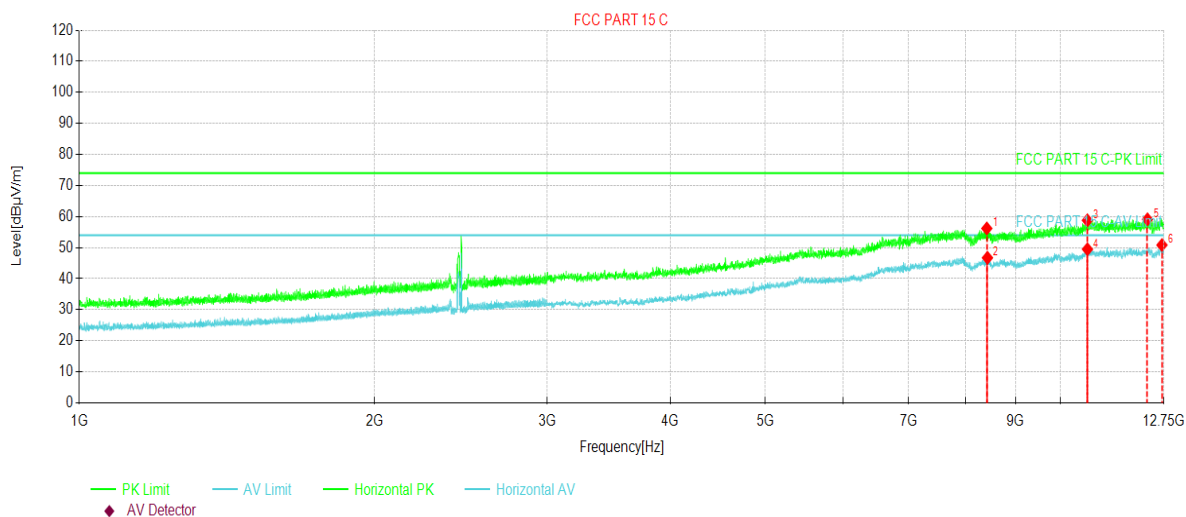


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7888.4	45.86	46.87	1.01	54.00	7.13	154	132	AV	Vertical
2	7922.5	55.27	56.26	0.99	74.00	17.74	196	157	PK	Vertical
3	10663.	42.88	50.02	7.14	54.00	3.98	14	167	AV	Vertical
4	10711.	51.70	58.95	7.25	74.00	15.05	337	154	PK	Vertical
5	11722.	51.39	59.39	8.00	74.00	14.61	19	149	PK	Vertical
6	12286.	42.68	50.52	7.84	54.00	3.48	338	134	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11g Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

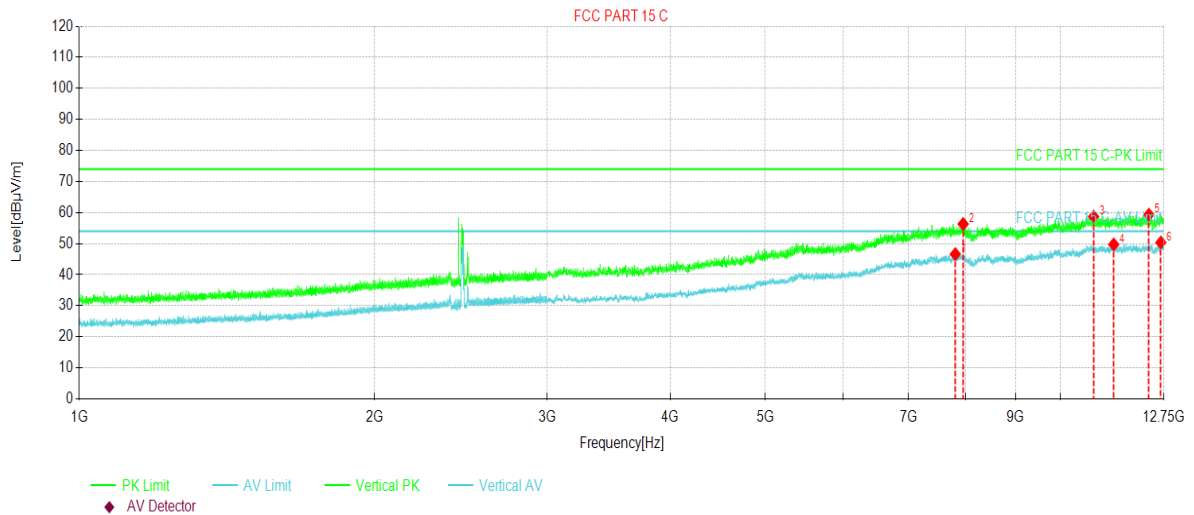


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	8412.4	54.51	56.18	1.67	74.00	17.82	114	156	PK	Horizontal
2	8424.6	45.12	46.72	1.60	54.00	7.28	241	147	AV	Horizontal
3	10652.	51.67	58.78	7.11	74.00	15.22	187	166	PK	Horizontal
4	10653.	42.37	49.48	7.11	54.00	4.52	173	157	AV	Horizontal
5	12264.	51.24	59.09	7.85	74.00	14.91	199	134	PK	Horizontal
6	12689.	42.49	50.83	8.34	54.00	3.17	157	157	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11g High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

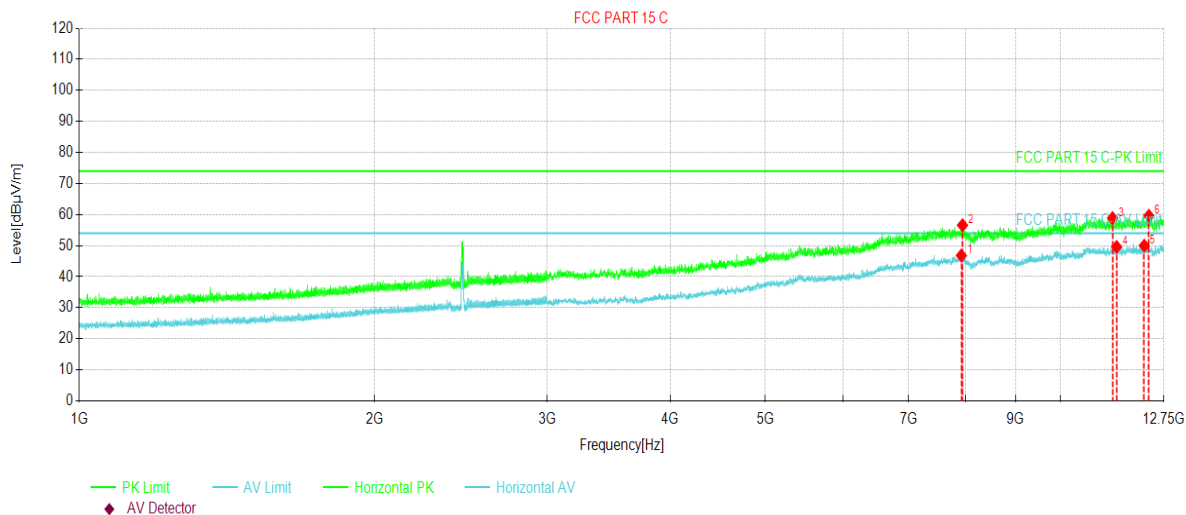


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7812.8	45.59	46.61	1.02	54.00	7.39	327	154	AV	Vertical
2	7959.0	55.39	56.33	0.94	74.00	17.67	24	164	PK	Vertical
3	10808.	51.56	58.71	7.15	74.00	15.29	12	157	PK	Vertical
4	11331.	41.93	49.73	7.80	54.00	4.27	347	134	AV	Vertical
5	12306.	51.51	59.34	7.83	74.00	14.66	46	159	PK	Vertical
6	12656.	42.11	50.35	8.24	54.00	3.65	314	148	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11g High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Humi: 57%

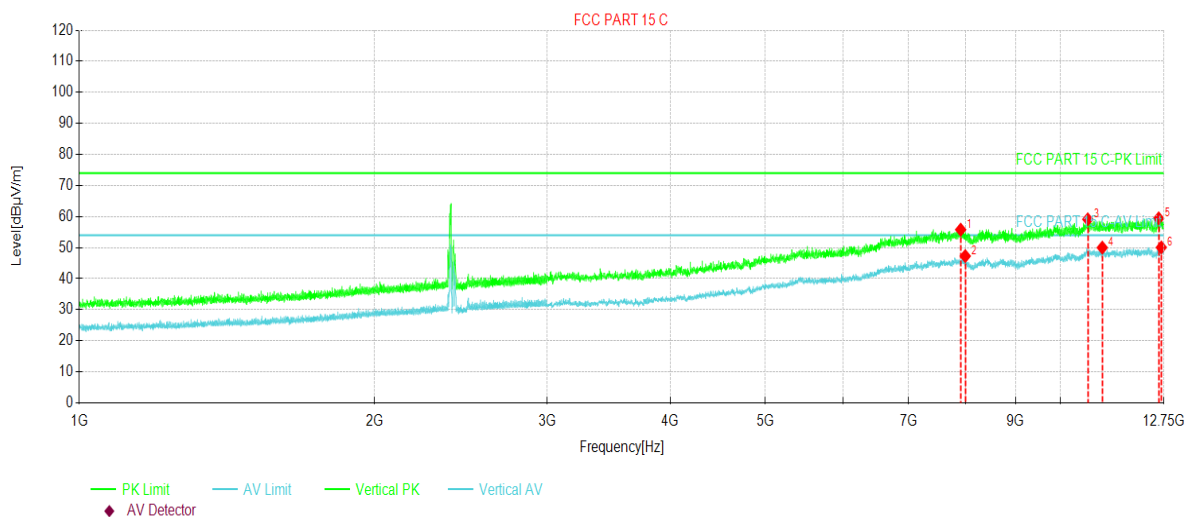


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7924.9	45.85	46.83	0.98	54.00	7.17	88	165	AV	Horizontal
2	7945.6	55.60	56.56	0.96	74.00	17.44	273	164	PK	Horizontal
3	11299.	50.76	58.86	8.10	74.00	15.14	147	143	PK	Horizontal
4	11409.	42.41	49.60	7.19	54.00	4.40	216	161	AV	Horizontal
5	12172.	42.28	49.97	7.69	54.00	4.03	146	147	AV	Horizontal
6	12305.	51.80	59.63	7.83	74.00	14.37	214	168	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n20 Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

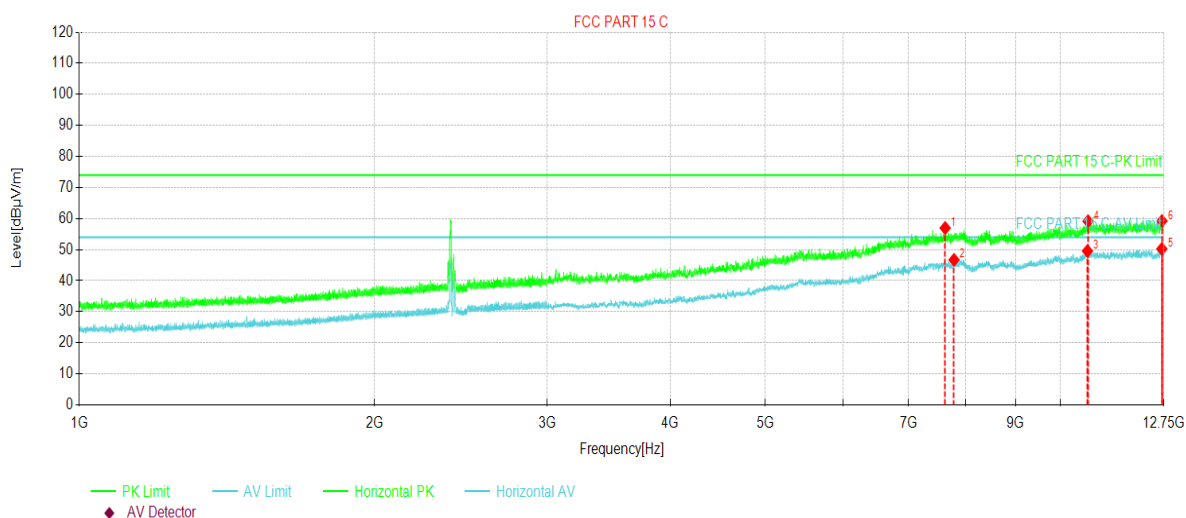


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7912.7	54.78	55.78	1.00	74.00	18.22	316	156	PK	Vertical
2	7998.0	46.36	47.26	0.90	54.00	6.74	49	149	AV	Vertical
3	10662.0	51.96	59.10	7.14	74.00	14.90	341	147	PK	Vertical
4	11031.0	42.63	49.99	7.36	54.00	4.01	17	136	AV	Vertical
5	12591.0	51.48	59.42	7.94	74.00	14.58	155	154	PK	Vertical
6	12669.0	41.78	50.06	8.28	54.00	3.94	216	146	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n20 Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%

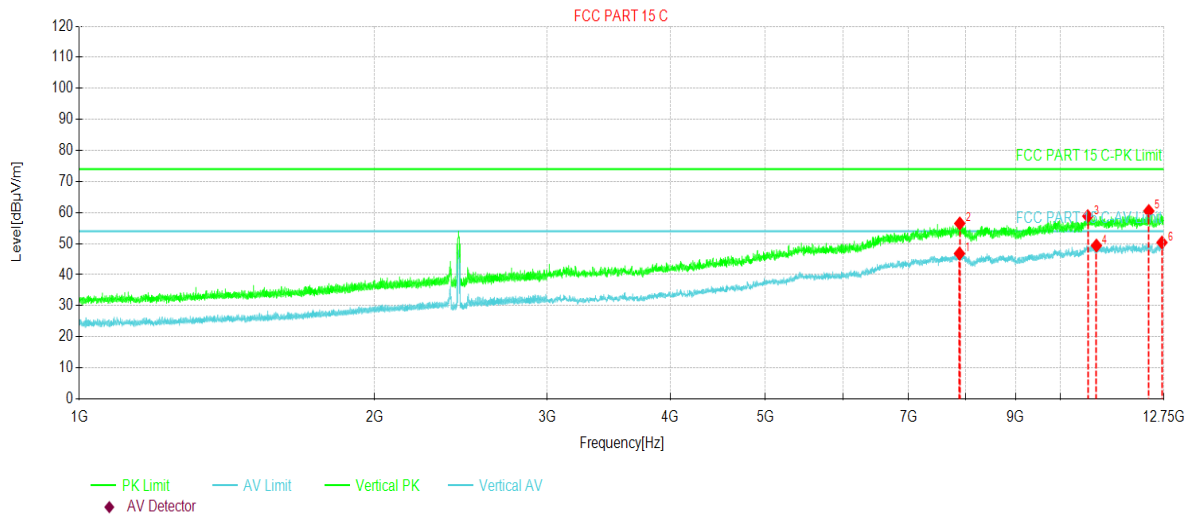


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7630.0	56.07	56.96	0.89	74.00	17.04	290	145	PK	Horizontal
2	7789.6	45.72	46.69	0.97	54.00	7.31	77	136	AV	Horizontal
3	10653.	42.44	49.55	7.11	54.00	4.45	66	154	AV	Horizontal
4	10668.	51.98	59.14	7.16	74.00	14.86	295	148	PK	Horizontal
5	12686.	41.89	50.23	8.34	54.00	3.77	44	146	AV	Horizontal
6	12689.	50.89	59.23	8.34	74.00	14.77	313	159	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n20 Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

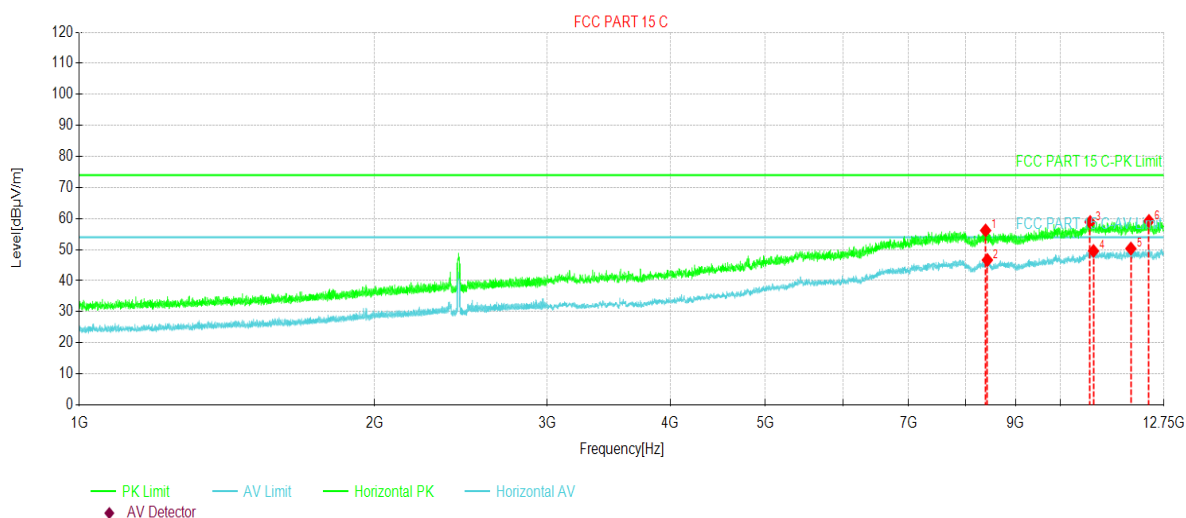


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7890.8	45.79	46.80	1.01	54.00	7.20	188	137	AV	Vertical
2	7895.7	55.49	56.50	1.01	74.00	17.50	148	169	PK	Vertical
3	10662.	51.69	58.83	7.14	74.00	15.17	317	158	PK	Vertical
4	10880.	42.09	49.36	7.27	54.00	4.64	49	147	AV	Vertical
5	12302.	52.66	60.49	7.83	74.00	13.51	224	156	PK	Vertical
6	12689.	42.01	50.35	8.34	54.00	3.65	146	138	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n20 Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Huni: 57%

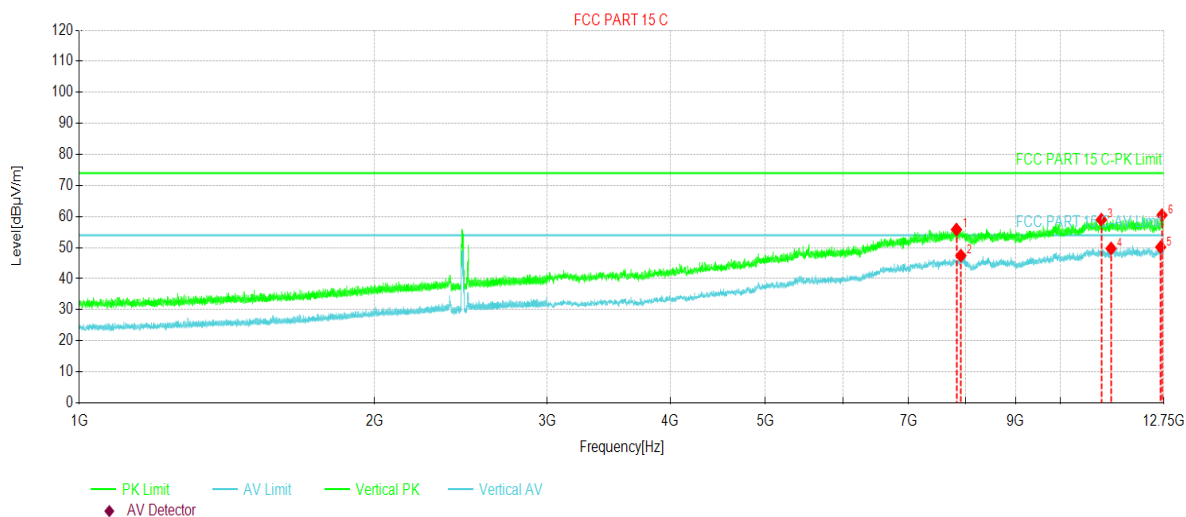


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	8389.3	54.43	56.17	1.74	74.00	17.83	36	159	PK	Horizontal
2	8423.4	45.03	46.64	1.61	54.00	7.36	323	169	AV	Horizontal
3	10720.	51.62	58.86	7.24	74.00	15.14	157	158	PK	Horizontal
4	10806.	42.41	49.56	7.15	54.00	4.44	214	162	AV	Horizontal
5	11796.	42.45	50.33	7.88	54.00	3.67	11	163	AV	Horizontal
6	12307.	51.38	59.21	7.83	74.00	14.79	349	154	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n20 High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%



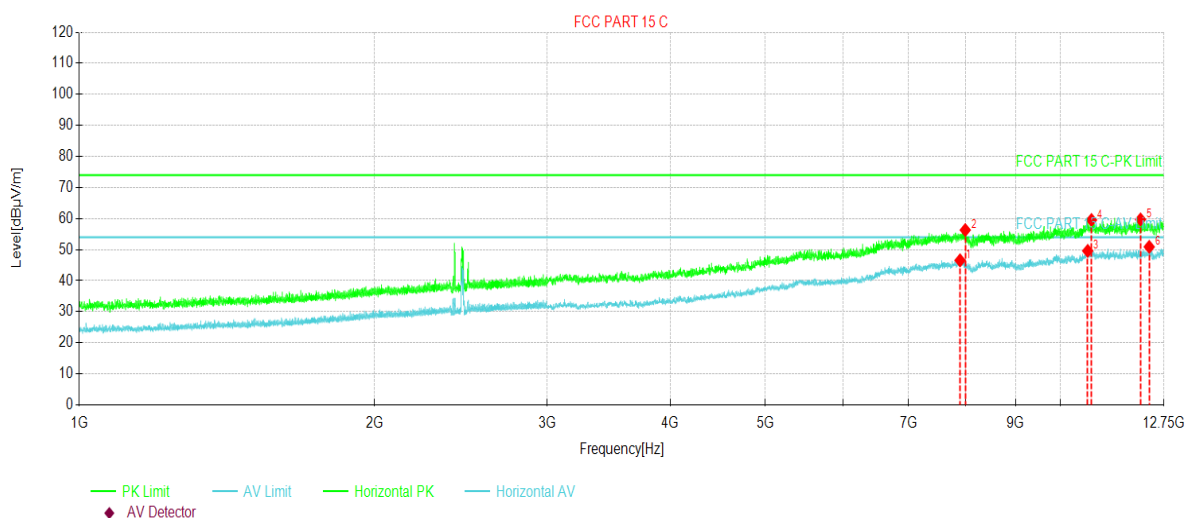
Suspected Data List

NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7834.7	54.79	55.81	1.02	74.00	18.19	199	132	PK	Vertical
2	7916.4	46.42	47.41	0.99	54.00	6.59	147	154	AV	Vertical
3	11008.	51.54	58.98	7.44	74.00	15.02	157	156	PK	Vertical
4	11261.	41.89	49.72	7.83	54.00	4.28	203	158	AV	Vertical
5	12651.	41.91	50.13	8.22	54.00	3.87	155	149	AV	Vertical
6	12689.	52.10	60.44	8.34	74.00	13.56	204	167	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n20 High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%



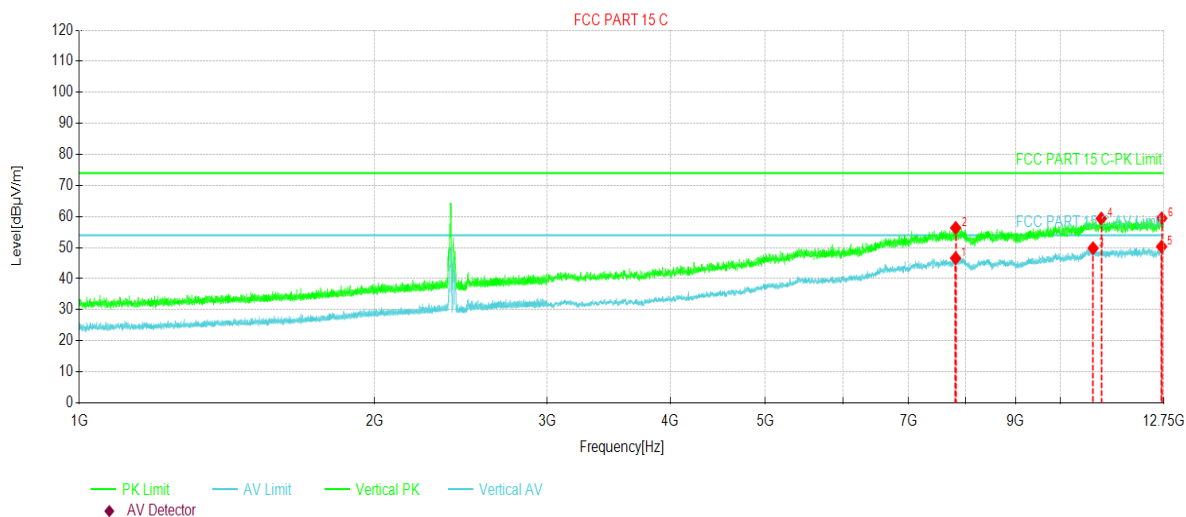
Suspected Data List

NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7900.5	45.54	46.55	1.01	54.00	7.45	333	165	AV	Horizontal
2	7998.0	55.42	56.32	0.90	74.00	17.68	27	134	PK	Horizontal
3	10659.	42.47	49.60	7.13	54.00	4.40	44	158	AV	Horizontal
4	10754.	52.35	59.54	7.19	74.00	14.46	326	157	PK	Horizontal
5	12066.	52.33	59.72	7.39	74.00	14.28	118	146	PK	Horizontal
6	12316.	43.05	50.88	7.83	54.00	3.12	239	159	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n40 Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

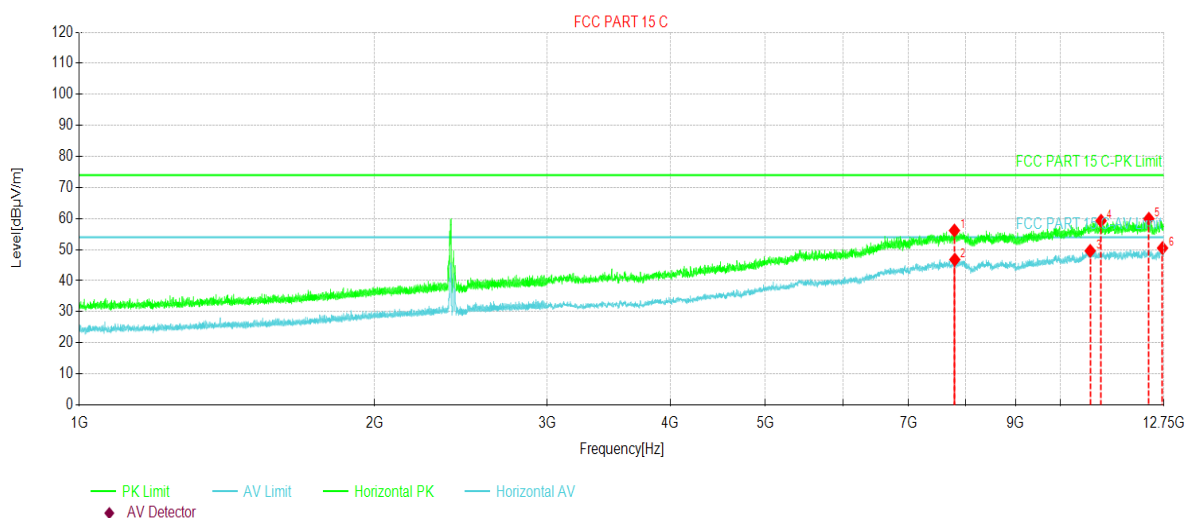


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7818.9	45.58	46.60	1.02	54.00	7.40	32	145	AV	Vertical
2	7820.1	55.32	56.34	1.02	74.00	17.66	327	137	PK	Vertical
3	10795.	42.66	49.81	7.15	54.00	4.19	17	156	AV	Vertical
4	11005.	51.92	59.37	7.45	74.00	14.63	346	149	PK	Vertical
5	12679.	42.02	50.33	8.31	54.00	3.67	58	167	AV	Vertical
6	12685.	51.11	59.44	8.33	74.00	14.56	302	147	PK	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n40 Low CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Huni: 57%

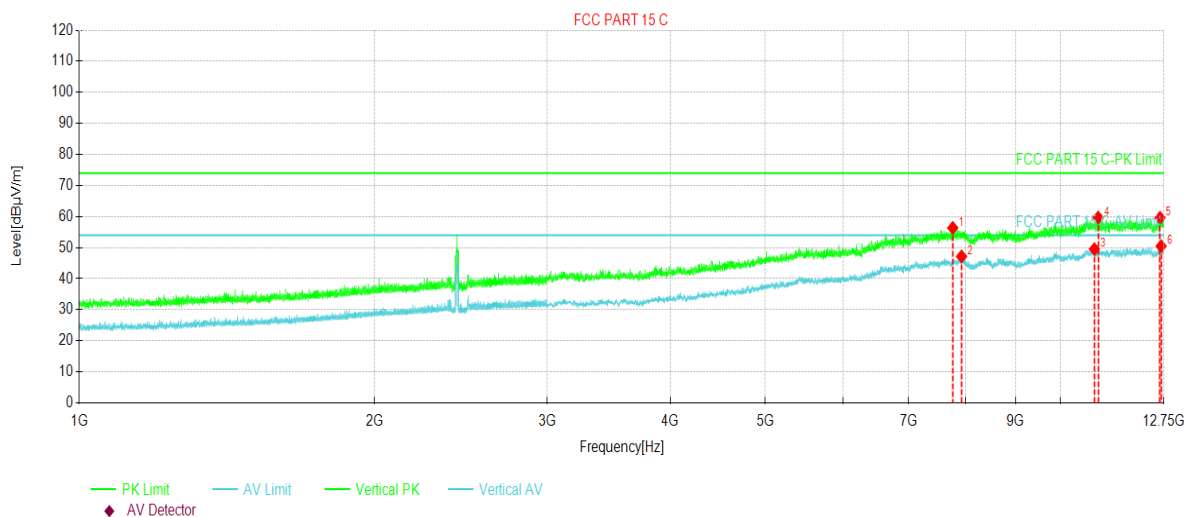


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7797.0	55.15	56.16	1.01	74.00	17.84	22	156	PK	Horizontal
2	7804.3	45.76	46.78	1.02	54.00	7.22	337	149	AV	Horizontal
3	10722.	42.36	49.59	7.23	54.00	4.41	356	158	AV	Horizontal
4	10999.	51.80	59.27	7.47	74.00	14.73	4	137	PK	Horizontal
5	12303.	52.10	59.93	7.83	74.00	14.07	87	154	PK	Horizontal
6	12707.	42.11	50.50	8.39	54.00	3.50	271	147	AV	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n40 Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%

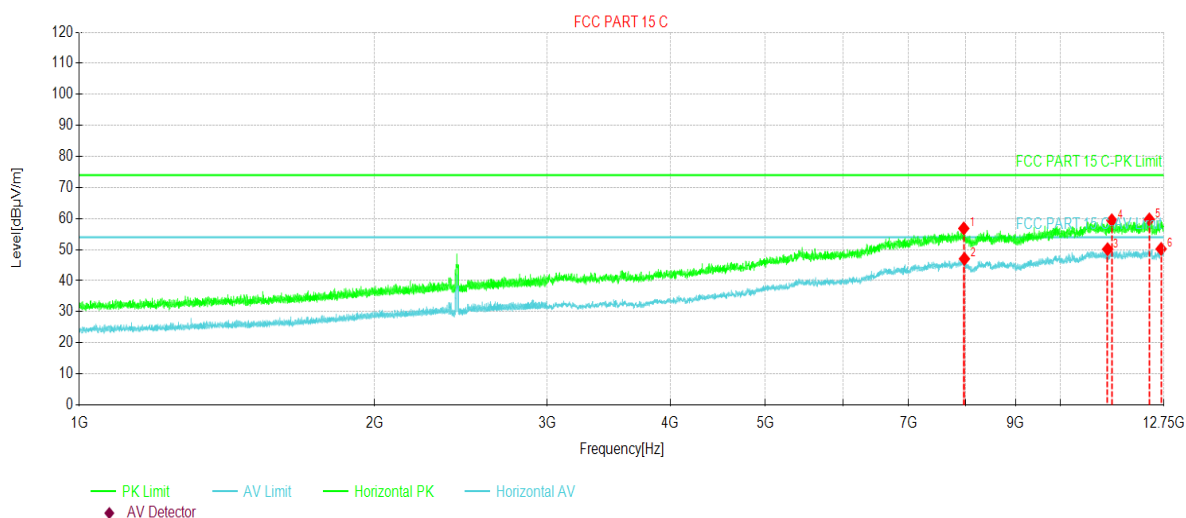


Suspected Data List										
NO	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7766.5	55.50	56.36	0.86	74.00	17.64	101	132	PK	Vertical
2	7928.6	46.18	47.16	0.98	54.00	6.84	264	157	AV	Vertical
3	10829.	42.33	49.52	7.19	54.00	4.48	312	149	AV	Vertical
4	10925.	52.33	59.67	7.34	74.00	14.33	147	167	PK	Vertical
5	12633.	51.47	59.63	8.16	74.00	14.37	149	158	PK	Vertical
6	12665.	42.21	50.48	8.27	54.00	3.52	208	163	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n40 Mid CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Humi: 57%

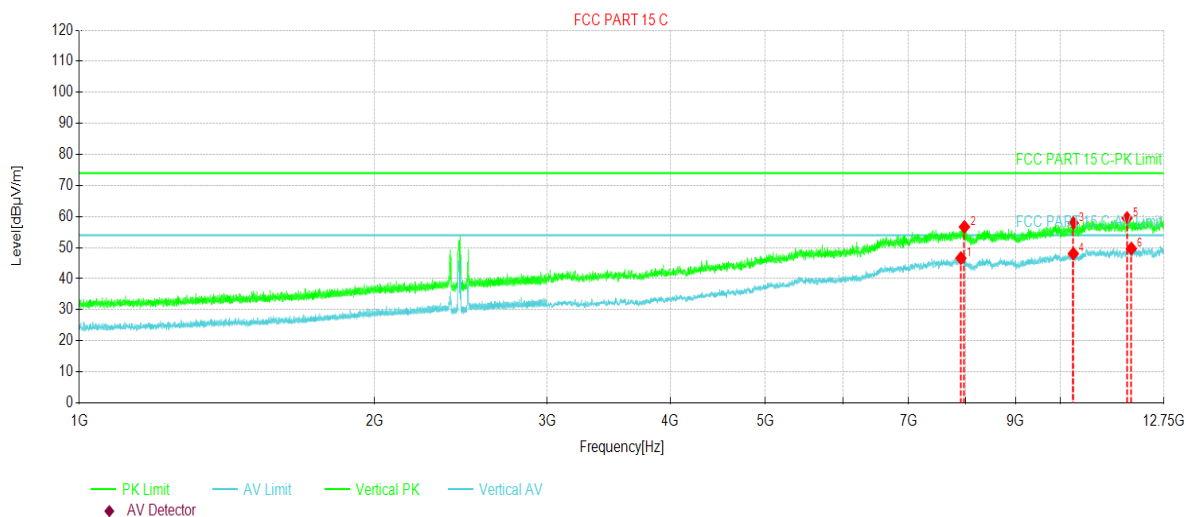


Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7970.0	55.90	56.83	0.93	74.00	17.17	124	156	PK	Horizontal
2	7982.2	46.12	47.04	0.92	54.00	6.96	238	147	AV	Horizontal
3	11169.0	42.81	50.12	7.31	54.00	3.88	191	159	AV	Horizontal
4	11280.0	51.48	59.44	7.96	74.00	14.56	154	136	PK	Horizontal
5	12317.0	51.88	59.71	7.83	74.00	14.29	167	147	PK	Horizontal
6	12664.0	41.95	50.21	8.26	54.00	3.79	193	159	AV	Horizontal

Remark:

1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n40 High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V	Environment:	Temp: 24℃ Humi: 57%



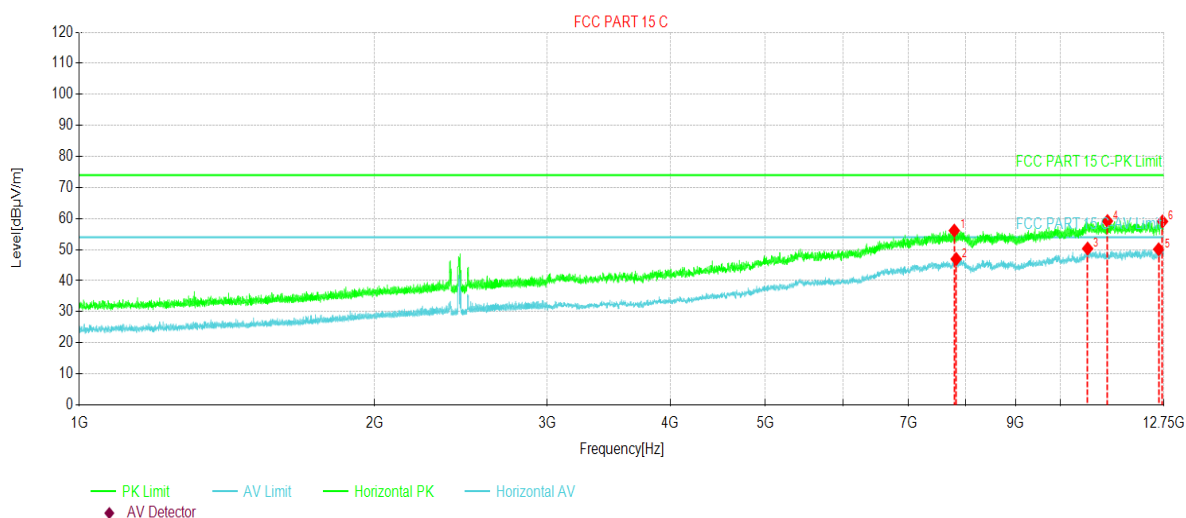
Suspected Data List

NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7916.4	45.61	46.60	0.99	54.00	7.40	157	159	AV	Vertical
2	7982.2	55.74	56.66	0.92	74.00	17.34	192	147	PK	Vertical
3	10305.	51.69	57.91	6.22	74.00	16.09	134	157	PK	Vertical
4	10306.	41.82	48.04	6.22	54.00	5.96	225	167	AV	Vertical
5	11690.	51.53	59.51	7.98	74.00	14.49	146	135	PK	Vertical
6	11810.	41.86	49.70	7.84	54.00	4.30	218	155	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Tracker	Product Model:	cp311A
Test By:	Mike	Test mode:	802.11n40 High CH
Test Frequency:	1 GHz ~ 25 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V	Environment:	Temp: 24°C Humi: 57%



Suspected Data List										
NO	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Angle [°]	Height [cm]	Trace	Polarity
1	7794.5	55.14	56.13	0.99	74.00	17.87	119	146	PK	Horizontal
2	7828.6	45.95	46.97	1.02	54.00	7.03	233	137	AV	Horizontal
3	10658.	43.20	50.33	7.13	54.00	3.67	164	158	AV	Horizontal
4	11165.	51.88	59.18	7.30	74.00	14.82	200	167	PK	Horizontal
5	12591.	42.16	50.10	7.94	54.00	3.90	31	134	AV	Horizontal
6	12706.	50.69	59.08	8.39	74.00	14.92	327	133	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of above 12.75GHz are lower than the limit 20dB and not show in test report.

7 Appendix

The below Appendix was detail result tested by SGS-CSTC Standards Technical Services, Co., Ltd.Shenzhen Branch.

(Date of Test: 2019/01/10-2019/01/24).

Appendix	Item
Appendix- 2.4G WLAN	2.4G WIFI