



FCC RF Test Report

(2.4G Wi-Fi)

Applicant: Rajant Corporation
Address of Applicant: 200 Chesterfield Parkway, Malvern PA 19355, United States
Equipment Under Test (EUT)
Product Name: Breadcrumb Module AG1
Model No.: AG1-5250M
Trade Mark: Cardinal
FCC ID: VJA-AG15250M
Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)
Date of Sample Receipt: 19 Jun., 2023
Date of Test: 20 Jun., to 24 Aug., 2023
Date of Report Issued: 26 Sep., 2023
Test Result: PASS

Tested by:

Jane Li
Test Engineer

Date:

26 Sep., 2023

Reviewed by:

Jane Li
Project Engineer

Date:

26 Sep., 2023

Approved by:

Jane Li
Manager

Date:

26 Sep., 2023

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

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

1 Version

Version No.	Date	Description
00	25 Aug., 2023	Original
01	26 Sep., 2023	1. Updated page 14. 2. Updated Appendix A – 2.4G Wi-Fi MIMO.

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3 General Information

3.1 Client Information

Applicant:	Rajant Corporation
Address:	200 Chesterfield Parkway, Malvern PA 19355, United States
Manufacturer:	8devices
Address:	Antakalnio g. 17, LT-10312 Vilnius
Factory:	8devices
Address:	Zirniu g. 26D, LT-02119 Vilnius

3.2 General Description of E.U.T.

Product Name:	Breadcrumb Module AG1
Model No.:	AG1-5250M
Operation Frequency:	2412 MHz - 2462 MHz (802.11b, g, n-HT20) 2422 MHz - 2452 MHz (802.11n-HT40)
Channel Numbers:	11 (802.11b, g, n-HT20) 7 (802.11n-HT40)
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:	External Antenna
Antenna Gain:	ANT A (KMA-2400-5-NM) : 5 dBi ANT B (PUCK-12) : 7.5 dBi
Antenna Transmit Mode:	MIMO (2TX, 2RX)
Power Supply:	DC 24V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 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 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.	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 10MHz)	1.9 dB
Conducted Emission for LISN (10MHz ~ 30MHz)	2.6 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	3.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB
Radiated Emission (30MHz ~ 1GHz) (10m SAC)	3.7 dB
Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 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>

3.8 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>

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	02-09-2023	02-08-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-10-2023	01-09-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-17-2022	10-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-18-2023	01-17-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-18-2023	01-17-2024
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	07-13-2023	07-12-2024
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	07-14-2023	07-13-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	01-09-2023	01-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	01-09-2023	01-08-2024
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	05-14-2023	05-13-2024
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	05-14-2023	05-13-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	01-10-2023	01-09-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-13-2023	06-12-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024
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		

Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	01-17-2023	01-16-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	01-10-2023	01-09-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-3	01-10-2023	01-09-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-4	01-11-2023	01-09-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	01-10-2023	01-09-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	01-10-2023	01-09-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-18-2023	01-17-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-18-2023	01-17-2024
Test Software	R&S	EMC32	Version: 10.50.40		

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	07-12-2022	07-11-2023
				07-09-2023	07-10-2024
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	01-10-2023	01-09-2024
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	01-11-2023	01-10-2024
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-22-2023	02-21-2024
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	10-17-2022	10-16-2023
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	10-17-2022	10-16-2023
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

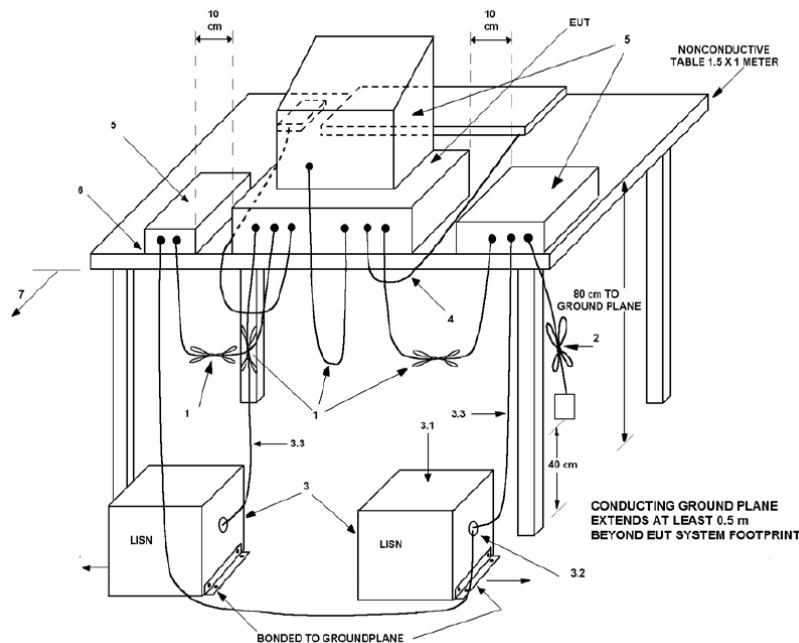
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

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

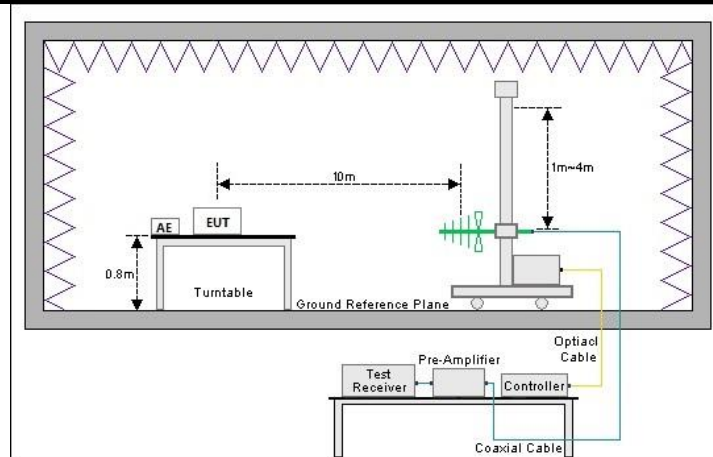
1) Conducted emission measurement:



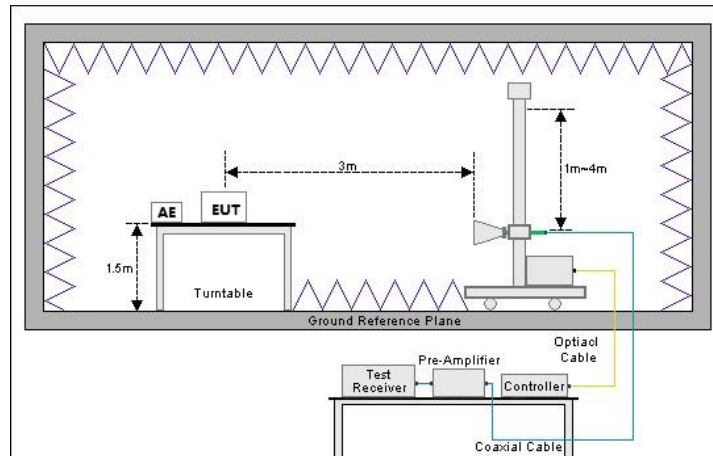
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

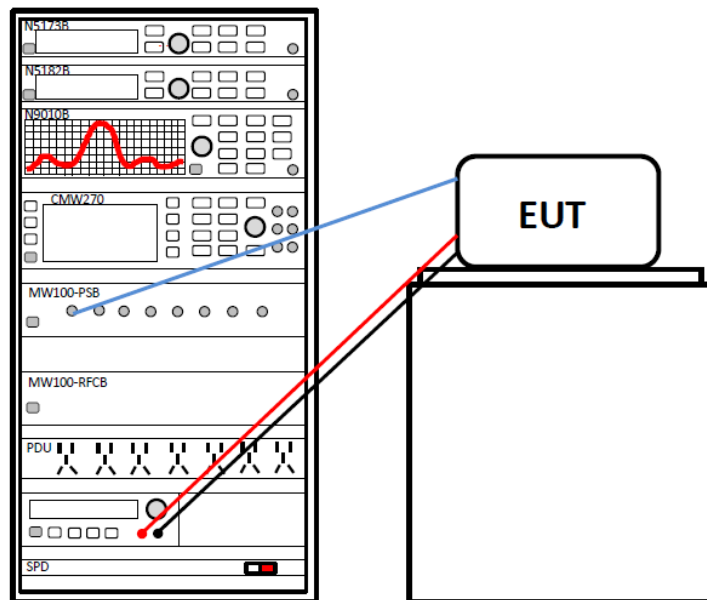
Below 1GHz (10m SAC)



Above 1GHz (3m SAC)



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 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 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 data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 5.2	Pass
AC Power Line Conducted Emission	15.207	See Section 5.3	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass
Conducted Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix A – 2.4G Wi-Fi	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 5.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	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 C63.10-2013 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																													

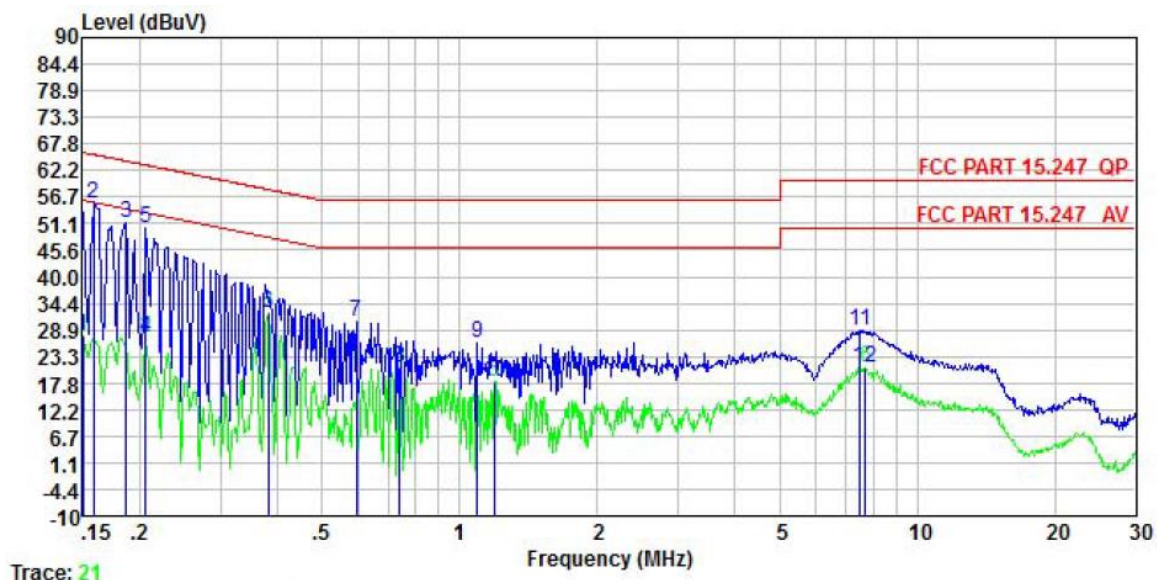
5.2 Antenna Requirement

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221 or §15.236 Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d) must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded. 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 Wi-Fi antenna A is an External Antenna, the best case gain of the antenna A is 5 dBi. The Wi-Fi antenna B is an External Antenna, the best case gain of the antenna A is 7.5 dBi See product internal photos for details. Note: 1. Usage Scenario 1(ANT B+ANT B): Directional gain = $G_{ANT} + 10 \log(N_{ANT}) = 7.5 + 10 \log(2) = 10.51$ dBi. 2. Usage Scenario 2(ANT A+ANT A): $G_{ANT} = 5$ dBi In the preceding application scenario, the antenna gain in scenario 1 is greater than 6dBi and the attached data is the data in scenario 2	

5.3 AC Power Line Conducted Emission

ANT A:

Product name:	Breadcrumb Module AG1	Product model:	AG1-5250M
Test by:	June	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

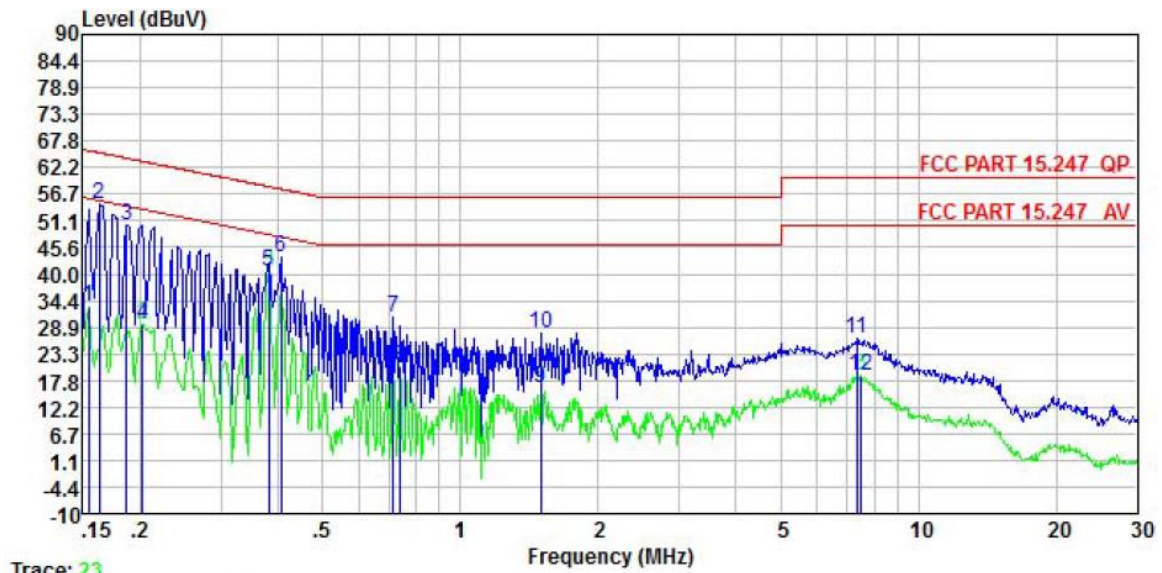


	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	16.94	0.04	10.50	0.01	27.49	56.00	-28.51	Average
2	0.158	44.85	0.04	10.50	0.01	55.40	65.56	-10.16	QP
3	0.186	40.78	0.05	10.50	0.02	51.35	64.20	-12.85	QP
4	0.206	16.56	0.05	10.50	0.04	27.15	53.36	-26.21	Average
5	0.206	39.48	0.05	10.50	0.04	50.07	63.36	-13.29	QP
6	0.381	22.01	0.06	10.50	0.03	32.60	48.25	-15.65	Average
7	0.595	19.91	0.06	10.50	0.02	30.49	56.00	-25.51	QP
8	0.739	10.24	0.07	10.50	0.03	20.84	46.00	-25.16	Average
9	1.094	15.56	0.07	10.50	0.07	26.20	56.00	-29.80	QP
10	1.191	7.26	0.07	10.50	0.09	17.92	46.00	-28.08	Average
11	7.486	18.05	0.18	10.50	0.10	28.83	60.00	-31.17	QP
12	7.687	10.17	0.18	10.50	0.10	20.95	50.00	-29.05	Average

Remark:

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

Product name:	Breadcrumb Module AG1	Product model:	AG1-5250M
Test by:	June	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



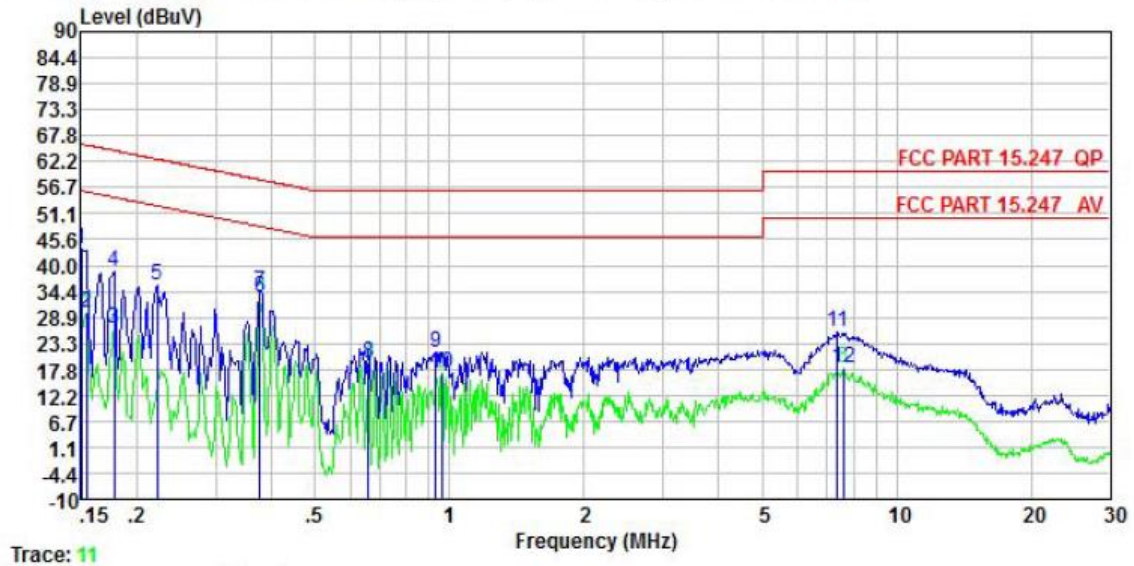
	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	22.51	0.06	10.50	0.01	33.08	55.78	-22.70	Average
2	0.162	44.12	0.06	10.50	0.01	54.69	65.34	-10.65	QP
3	0.186	39.71	0.05	10.50	0.02	50.28	64.20	-13.92	QP
4	0.202	18.99	0.05	10.50	0.04	29.58	53.54	-23.96	Average
5	0.381	30.11	0.05	10.50	0.03	40.69	48.25	-7.56	Average
6	0.406	32.81	0.04	10.50	0.04	43.39	57.73	-14.34	QP
7	0.712	20.30	0.06	10.50	0.03	30.89	56.00	-25.11	QP
8	0.739	10.00	0.06	10.50	0.03	20.59	46.00	-25.41	Average
9	1.495	5.64	0.07	10.50	0.14	16.35	46.00	-29.65	Average
10	1.495	16.89	0.07	10.50	0.14	27.60	56.00	-28.40	QP
11	7.329	15.62	0.17	10.50	0.10	26.39	60.00	-33.61	QP
12	7.486	7.89	0.17	10.50	0.10	18.66	50.00	-31.34	Average

Remark:

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

ANT B:

Product name:	Breadcrumb Module AG1	Product model:	AG1-5250M
Test by:	June	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

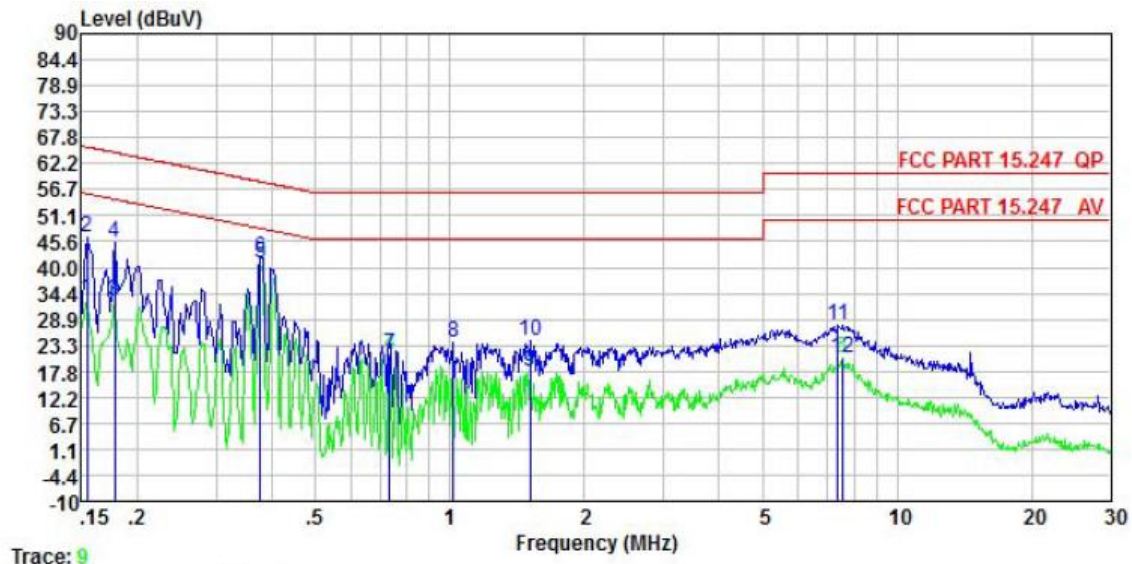


	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	32.88	0.04	10.50	0.01	43.43	66.00	-22.57	QP
2	0.154	19.37	0.04	10.50	0.01	29.92	55.78	-25.86	Average
3	0.178	16.14	0.05	10.50	0.01	26.70	54.59	-27.89	Average
4	0.178	28.28	0.05	10.50	0.01	38.84	64.59	-25.75	QP
5	0.222	25.27	0.05	10.50	0.03	35.85	62.74	-26.89	QP
6	0.377	22.53	0.06	10.50	0.03	33.12	48.34	-15.22	Average
7	0.377	23.84	0.06	10.50	0.03	34.43	58.34	-23.91	QP
8	0.658	8.50	0.07	10.50	0.03	19.10	46.00	-26.90	Average
9	0.933	10.92	0.07	10.50	0.04	21.53	56.00	-34.47	QP
10	0.963	6.46	0.07	10.50	0.05	17.08	46.00	-28.92	Average
11	7.368	14.86	0.18	10.50	0.10	25.64	60.00	-34.36	QP
12	7.606	7.12	0.18	10.50	0.10	17.90	50.00	-32.10	Average

Remark:

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

Product name:	Breadcrumb Module AG1	Product model:	AG1-5250M
Test by:	June	Test mode:	2.4G Wi-Fi mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	22.43	0.06	10.50	0.01	33.00	55.78	-22.78	Average
2	0.154	36.04	0.06	10.50	0.01	46.61	65.78	-19.17	QP
3	0.178	22.23	0.05	10.50	0.01	32.79	54.59	-21.80	Average
4	0.178	34.73	0.05	10.50	0.01	45.29	64.59	-19.30	QP
5	0.377	30.34	0.05	10.50	0.03	40.92	48.34	-7.42	Average
6	0.377	31.48	0.05	10.50	0.03	42.06	58.34	-16.28	QP
7	0.731	10.87	0.06	10.50	0.03	21.46	46.00	-24.54	Average
8	1.016	13.20	0.06	10.50	0.05	23.81	56.00	-32.19	QP
9	1.511	6.95	0.07	10.50	0.15	17.67	46.00	-28.33	Average
10	1.519	13.53	0.07	10.50	0.15	24.25	56.00	-31.75	QP
11	7.368	17.04	0.17	10.50	0.10	27.81	60.00	-32.19	QP
12	7.526	9.85	0.17	10.50	0.10	20.62	50.00	-29.38	Average

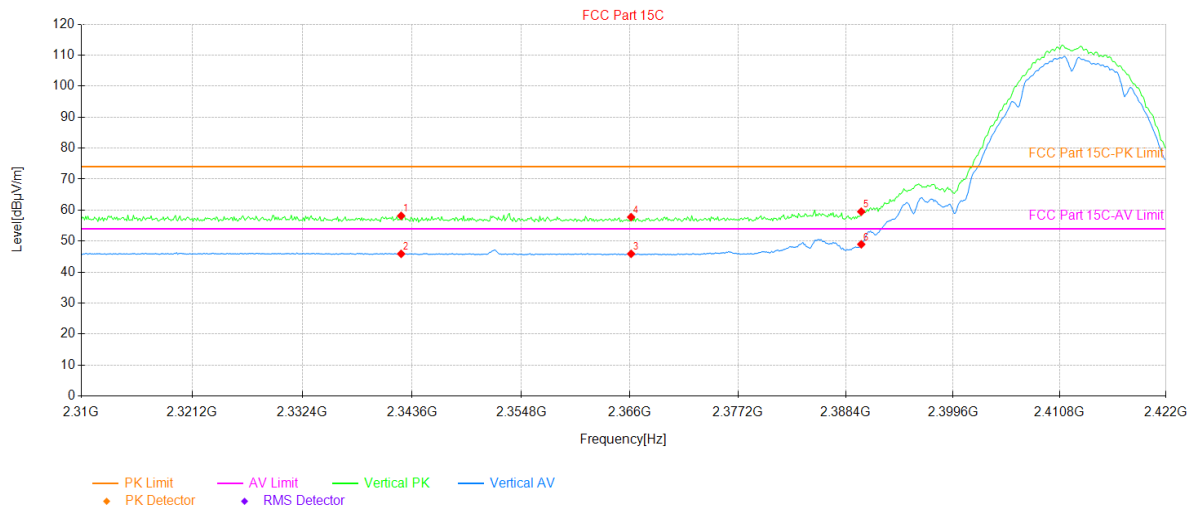
Remark:

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

5.4 Emissions in Restricted Frequency Bands

ANTA-1:

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



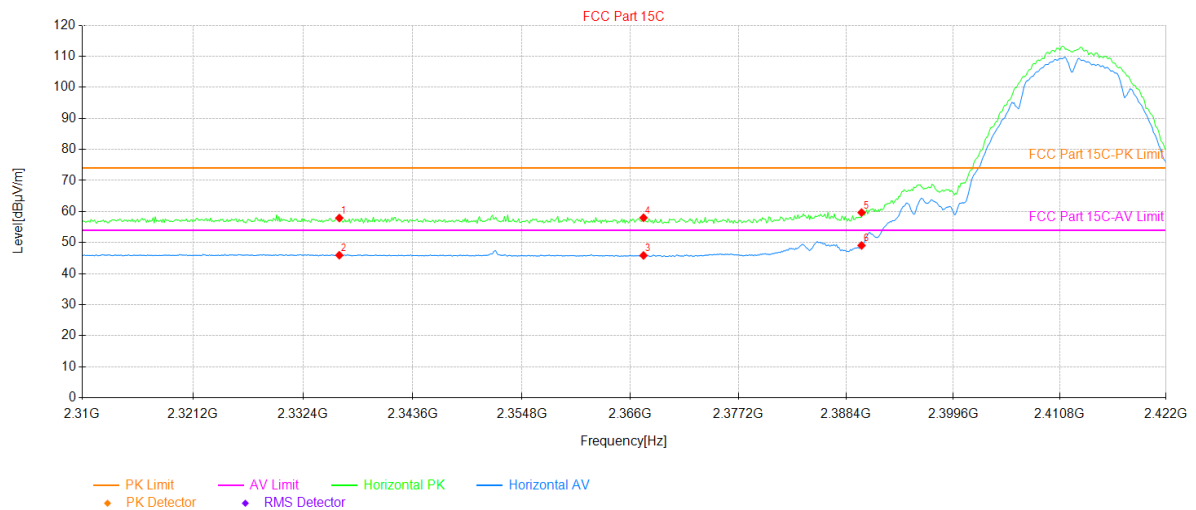
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2342.48	23.93	34.22	58.15	74.00	15.85	150	2	PK	Vertical
2	2342.48	11.68	34.22	45.90	54.00	8.10	150	282	AV	Vertical
3	2366.11	11.73	34.18	45.91	54.00	8.09	150	197	AV	Vertical
4	2366.11	23.57	34.18	57.75	74.00	16.25	150	226	PK	Vertical
5	2390.00	25.37	34.13	59.50	74.00	14.50	150	289	PK	Vertical
6	2390.00	14.84	34.13	48.97	54.00	5.03	150	285	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



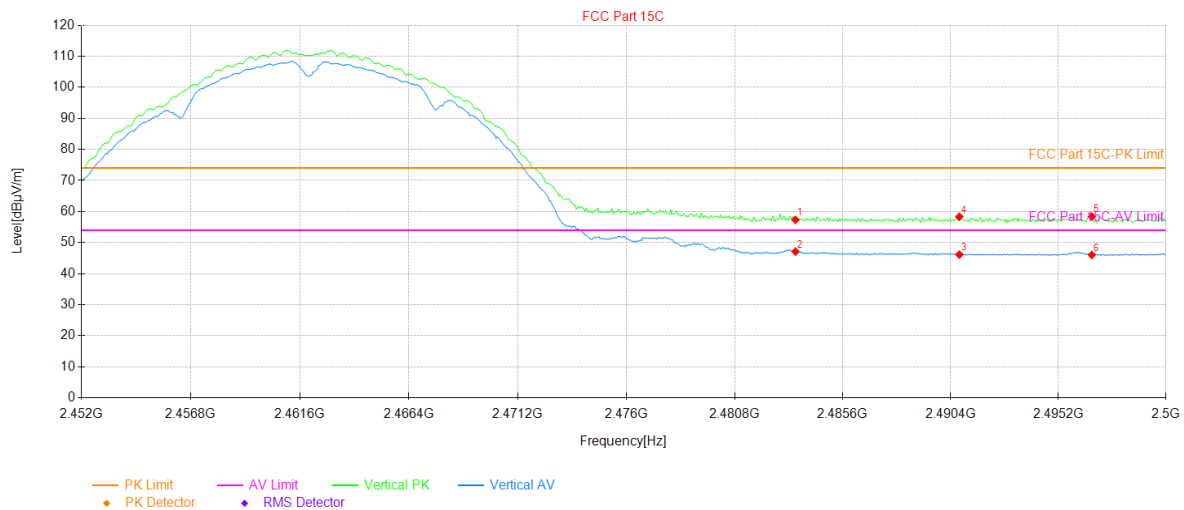
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2336.10	23.70	34.21	57.91	74.00	16.09	150	223	PK	Horizontal
2	2336.10	11.72	34.21	45.93	54.00	8.07	150	130	AV	Horizontal
3	2367.34	11.68	34.18	45.86	54.00	8.14	150	286	AV	Horizontal
4	2367.34	23.81	34.18	57.99	74.00	16.01	150	322	PK	Horizontal
5	2390.00	25.56	34.13	59.69	74.00	14.31	150	286	PK	Horizontal
6	2390.00	14.94	34.13	49.07	54.00	4.93	150	278	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



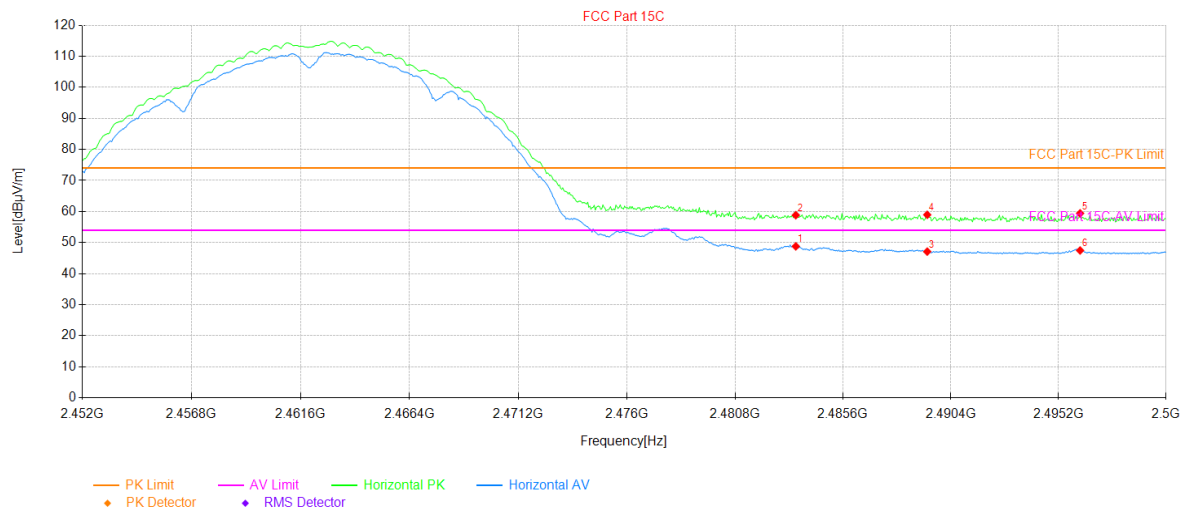
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	22.82	34.51	57.33	74.00	16.67	150	288	PK	Vertical
2	2483.50	12.59	34.51	47.10	54.00	6.90	150	292	AV	Vertical
3	2490.78	11.61	34.52	46.13	54.00	7.87	150	122	AV	Vertical
4	2490.78	23.82	34.52	58.34	74.00	15.66	150	118	PK	Vertical
5	2496.69	23.85	34.52	58.37	74.00	15.63	150	115	PK	Vertical
6	2496.69	11.51	34.52	46.03	54.00	7.97	150	115	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



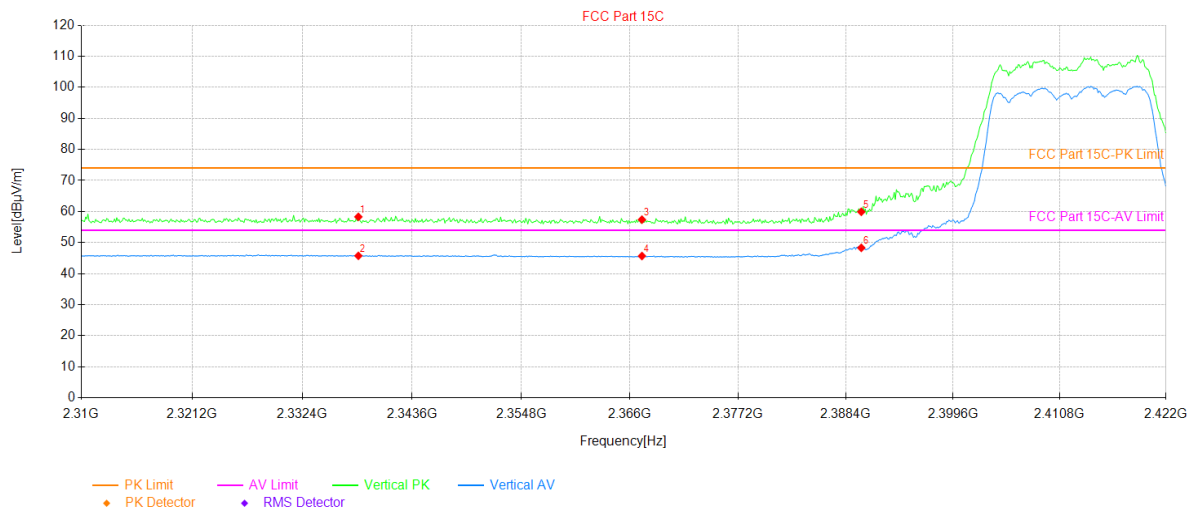
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	14.28	34.51	48.79	54.00	5.21	150	279	AV	Horizontal
2	2483.50	24.31	34.51	58.82	74.00	15.18	150	275	PK	Horizontal
3	2489.34	12.59	34.51	47.10	54.00	6.90	150	120	AV	Horizontal
4	2489.34	24.44	34.51	58.95	74.00	15.05	150	110	PK	Horizontal
5	2496.16	24.89	34.52	59.41	74.00	14.59	150	98	PK	Horizontal
6	2496.16	12.95	34.52	47.47	54.00	6.53	150	279	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



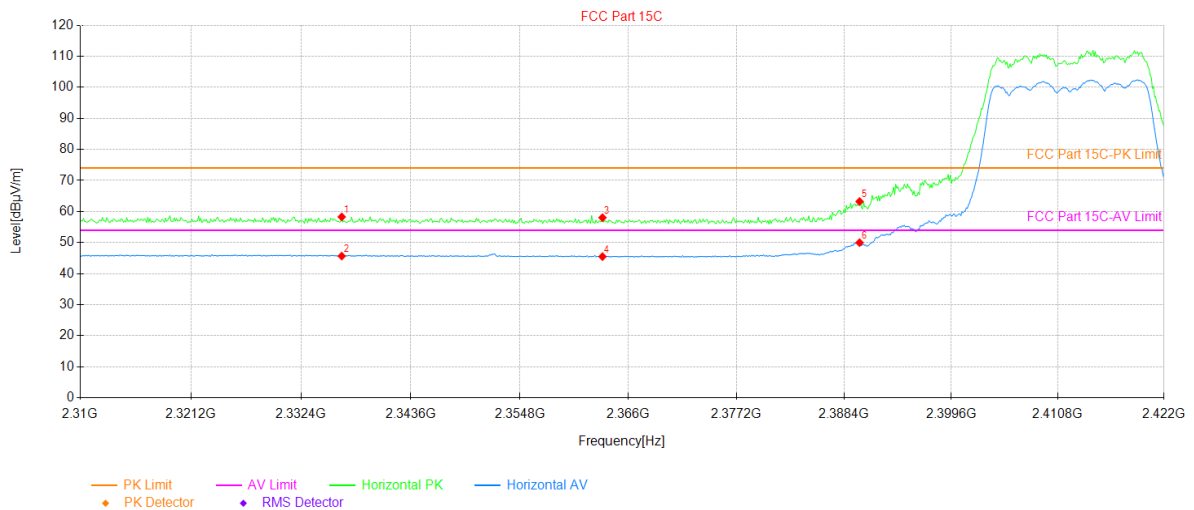
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2338.11	24.08	34.22	58.30	74.00	15.70	150	278	PK	Vertical
2	2338.11	11.52	34.22	45.74	54.00	8.26	150	180	AV	Vertical
3	2367.23	23.21	34.18	57.39	74.00	16.61	150	102	PK	Vertical
4	2367.23	11.50	34.18	45.68	54.00	8.32	150	110	AV	Vertical
5	2390.00	25.78	34.13	59.91	74.00	14.09	150	128	PK	Vertical
6	2390.00	14.18	34.13	48.31	54.00	5.69	150	125	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



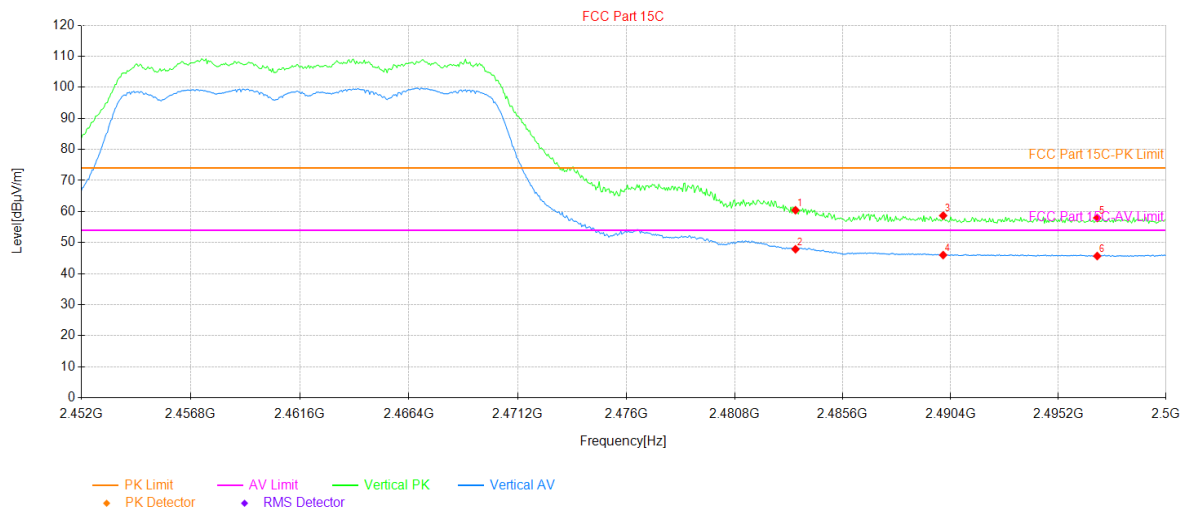
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2336.54	24.05	34.22	58.27	74.00	15.73	150	232	PK	Horizontal
2	2336.54	11.44	34.22	45.66	54.00	8.34	150	124	AV	Horizontal
3	2363.31	23.83	34.19	58.02	74.00	15.98	150	150	PK	Horizontal
4	2363.31	11.30	34.19	45.49	54.00	8.51	150	124	AV	Horizontal
5	2390.00	29.10	34.13	63.23	74.00	10.77	150	113	PK	Horizontal
6	2390.00	15.87	34.13	50.00	54.00	4.00	150	128	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



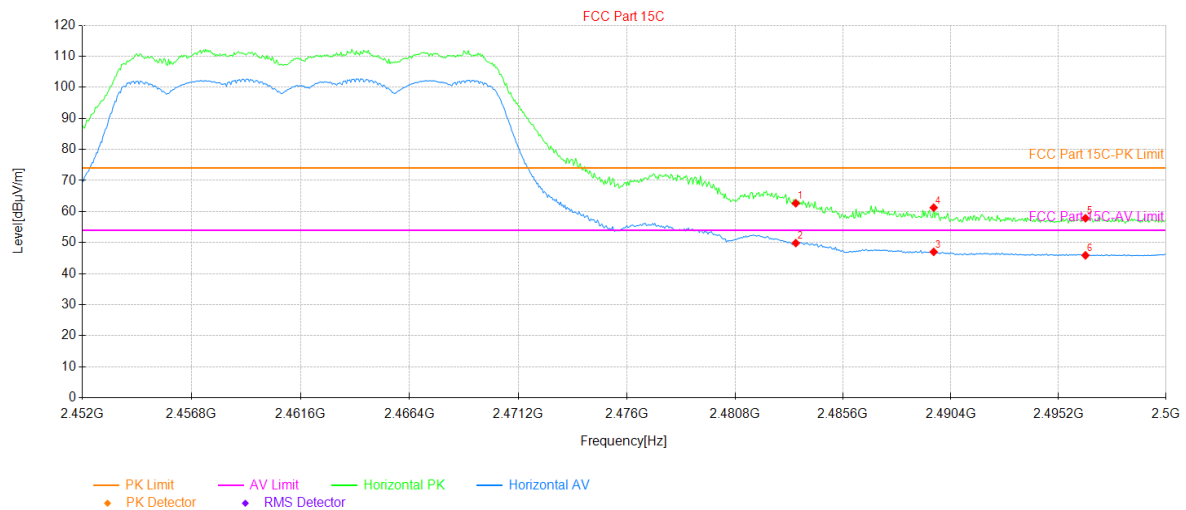
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	25.91	34.51	60.42	74.00	13.58	150	122	PK	Vertical
2	2483.50	13.36	34.51	47.87	54.00	6.13	150	108	AV	Vertical
3	2490.06	24.17	34.52	58.69	74.00	15.31	150	133	PK	Vertical
4	2490.06	11.46	34.52	45.98	54.00	8.02	150	133	AV	Vertical
5	2496.93	23.41	34.52	57.93	74.00	16.07	150	343	PK	Vertical
6	2496.93	11.16	34.52	45.68	54.00	8.32	150	292	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

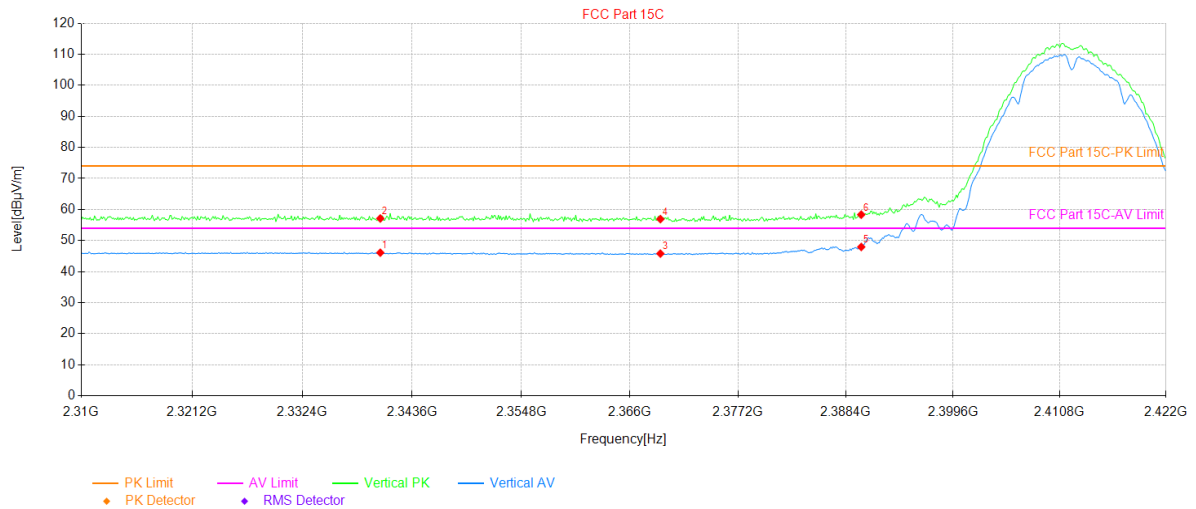
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	28.15	34.51	62.66	74.00	11.34	150	127	PK	Horizontal
2	2483.50	15.34	34.51	49.85	54.00	4.15	150	124	AV	Horizontal
3	2489.63	12.49	34.52	47.01	54.00	6.99	150	124	AV	Horizontal
4	2489.63	26.74	34.52	61.26	74.00	12.74	150	124	PK	Horizontal
5	2496.40	23.33	34.52	57.85	74.00	16.15	150	304	PK	Horizontal
6	2496.40	11.37	34.52	45.89	54.00	8.11	150	288	AV	Horizontal

Remark:

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

ANTA-2:

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

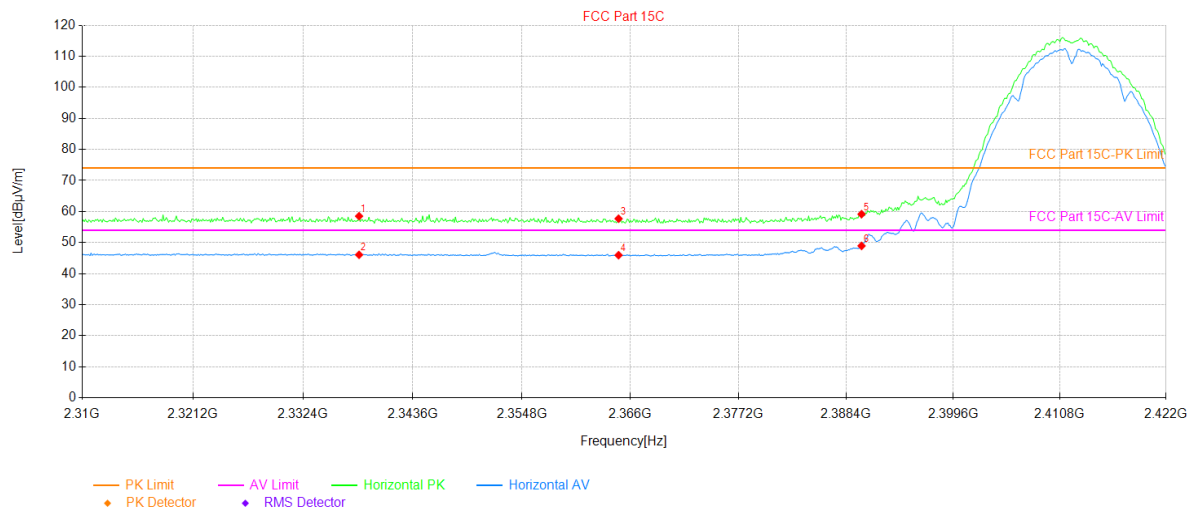

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2340.35	11.89	34.22	46.11	54.00	7.89	150	274	AV	Vertical
2	2340.35	22.90	34.22	57.12	74.00	16.88	150	105	PK	Vertical
3	2369.14	11.63	34.18	45.81	54.00	8.19	150	117	AV	Vertical
4	2369.14	22.75	34.18	56.93	74.00	17.07	150	360	PK	Vertical
5	2390.00	13.83	34.13	47.96	54.00	6.04	150	128	AV	Vertical
6	2390.00	24.23	34.13	58.36	74.00	15.64	150	128	PK	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



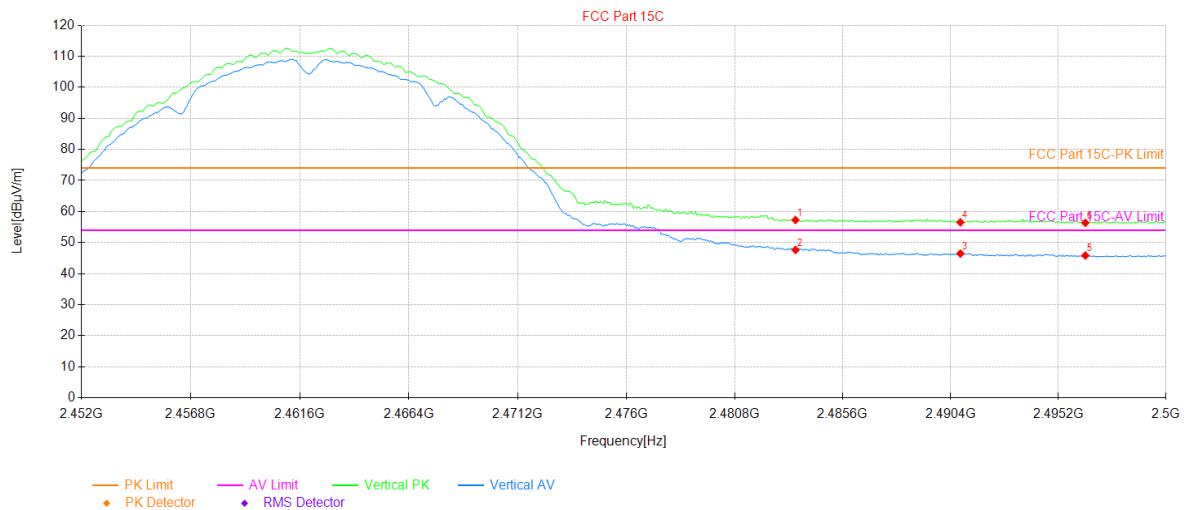
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2338.11	24.30	34.22	58.52	74.00	15.48	150	109	PK	Horizontal
2	2338.11	11.86	34.22	46.08	54.00	7.92	150	113	AV	Horizontal
3	2364.77	23.51	34.19	57.70	74.00	16.30	150	262	PK	Horizontal
4	2364.77	11.76	34.19	45.95	54.00	8.05	150	113	AV	Horizontal
5	2390.00	25.03	34.13	59.16	74.00	14.84	150	124	PK	Horizontal
6	2390.00	14.81	34.13	48.94	54.00	5.06	150	128	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



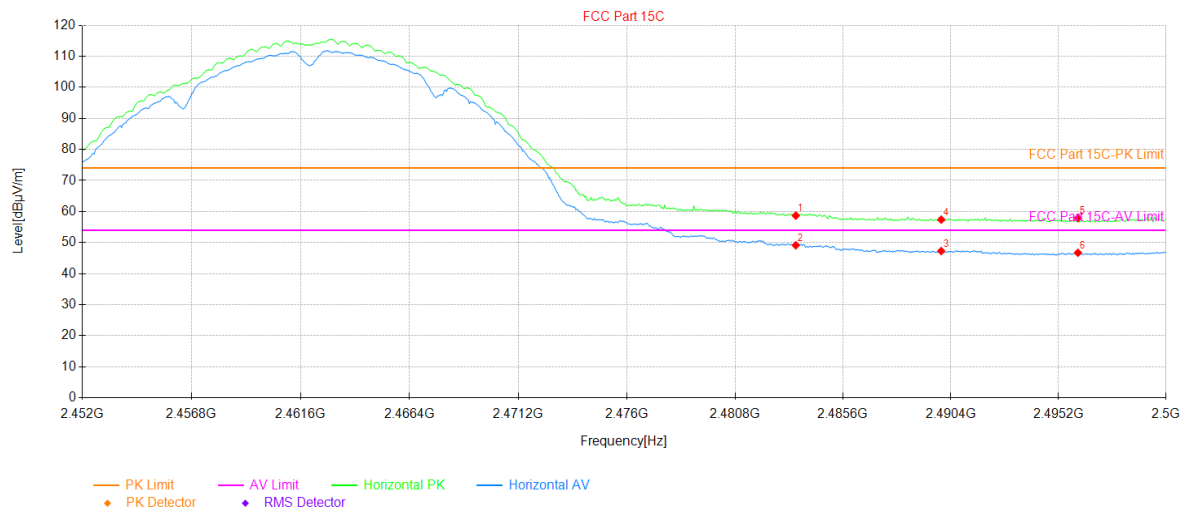
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	22.76	34.51	57.27	74.00	16.73	150	283	PK	Vertical
2	2483.50	13.13	34.51	47.64	54.00	6.36	150	287	AV	Vertical
3	2490.83	11.94	34.52	46.46	54.00	7.54	150	118	AV	Vertical
4	2490.83	22.01	34.52	56.53	74.00	17.47	150	59	PK	Vertical
5	2496.40	11.31	34.52	45.83	54.00	8.17	150	283	AV	Vertical
6	2496.40	21.84	34.52	56.36	74.00	17.64	150	140	PK	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



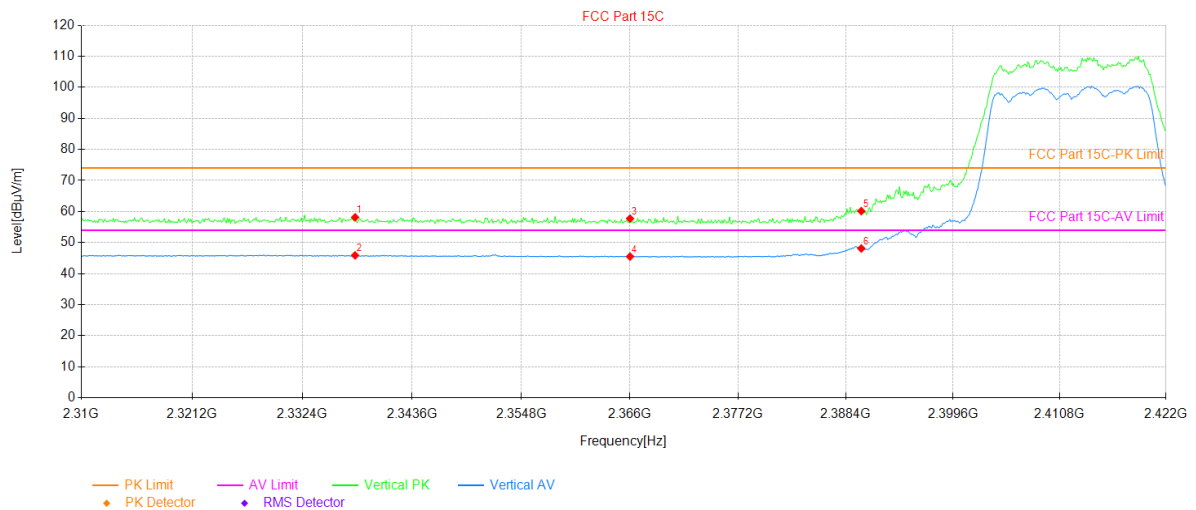
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.18	34.51	58.69	74.00	15.31	150	282	PK	Horizontal
2	2483.50	14.61	34.51	49.12	54.00	4.88	150	275	AV	Horizontal
3	2489.97	12.76	34.52	47.28	54.00	6.72	150	279	AV	Horizontal
4	2489.97	22.88	34.52	57.40	74.00	16.60	150	275	PK	Horizontal
5	2496.06	23.35	34.52	57.87	74.00	16.13	150	106	PK	Horizontal
6	2496.06	12.20	34.52	46.72	54.00	7.28	150	282	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



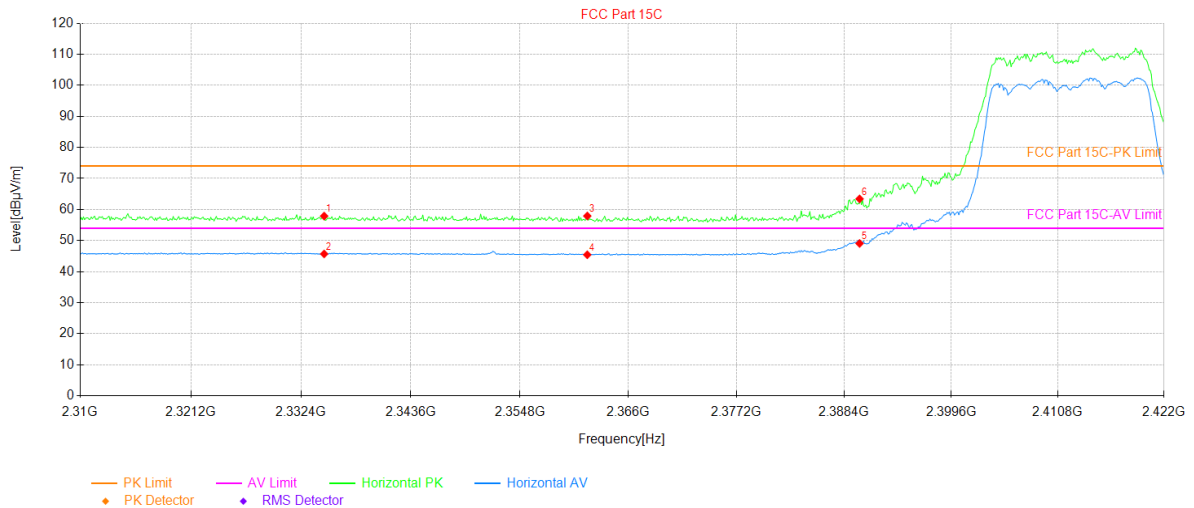
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2337.78	23.91	34.22	58.13	74.00	15.87	150	337	PK	Vertical
2	2337.78	11.66	34.22	45.88	54.00	8.12	150	107	AV	Vertical
3	2366.00	23.55	34.18	57.73	74.00	16.27	150	32	PK	Vertical
4	2366.00	11.32	34.18	45.50	54.00	8.50	150	107	AV	Vertical
5	2390.00	26.01	34.13	60.14	74.00	13.86	150	125	PK	Vertical
6	2390.00	13.99	34.13	48.12	54.00	5.88	150	125	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



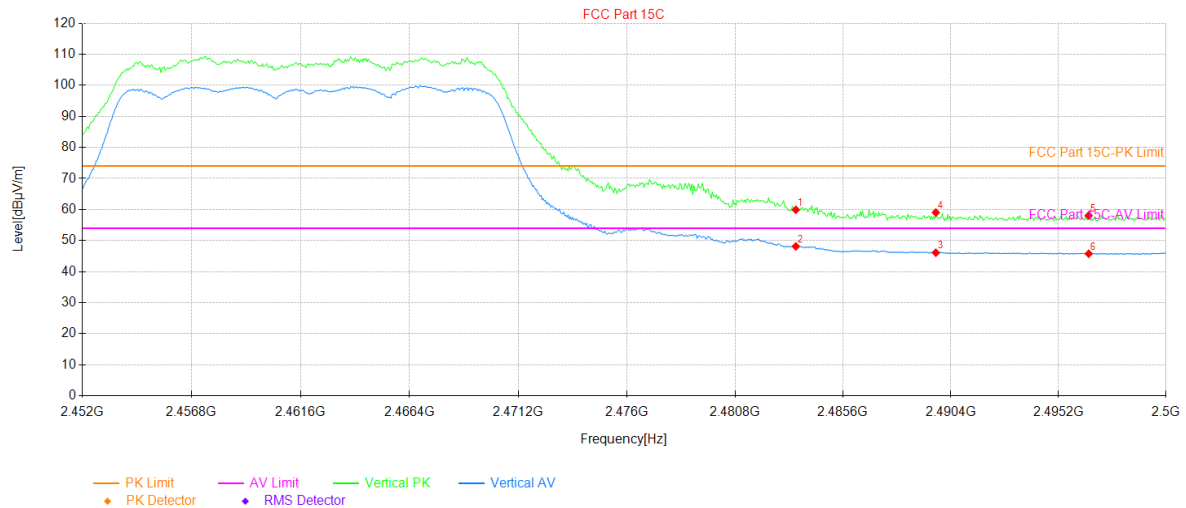
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2334.75	23.68	34.22	57.90	74.00	16.10	150	258	PK	Horizontal
2	2334.75	11.48	34.22	45.70	54.00	8.30	150	123	AV	Horizontal
3	2361.74	23.74	34.19	57.93	74.00	16.07	150	49	PK	Horizontal
4	2361.74	11.25	34.19	45.44	54.00	8.56	150	217	AV	Horizontal
5	2390.00	14.96	34.13	49.09	54.00	4.91	150	123	AV	Horizontal
6	2390.00	29.30	34.13	63.43	74.00	10.57	150	123	PK	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



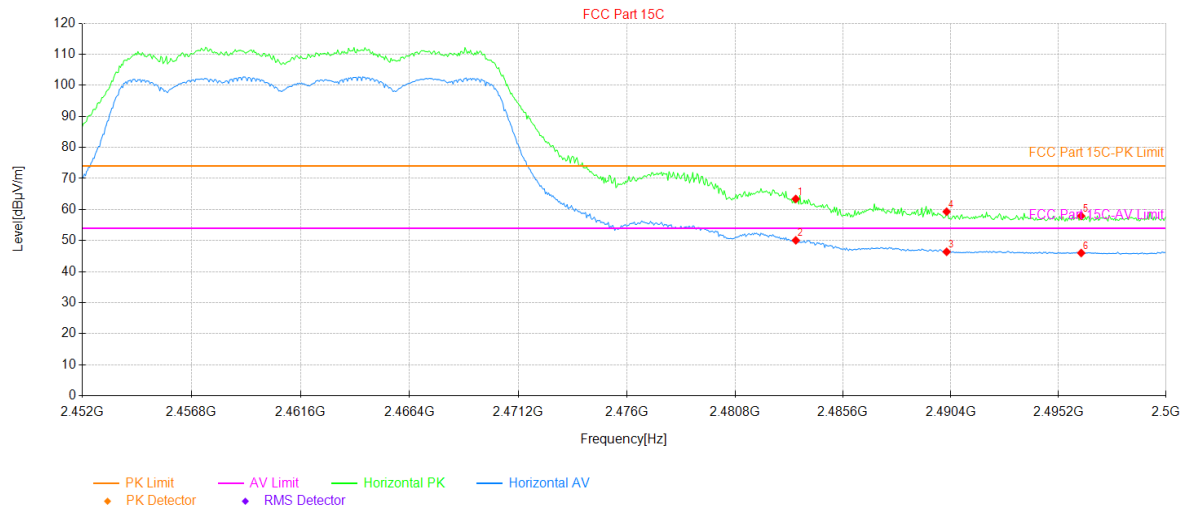
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle[°]	Detector	Polarity
1	2483.50	25.42	34.51	59.93	74.00	14.07	150	100	PK	Vertical
2	2483.50	13.62	34.51	48.13	54.00	5.87	150	118	AV	Vertical
3	2489.73	11.58	34.52	46.10	54.00	7.90	150	122	AV	Vertical
4	2489.73	24.52	34.52	59.04	74.00	14.96	150	133	PK	Vertical
5	2496.54	23.54	34.52	58.06	74.00	15.94	150	358	PK	Vertical
6	2496.54	11.25	34.52	45.77	54.00	8.23	150	283	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



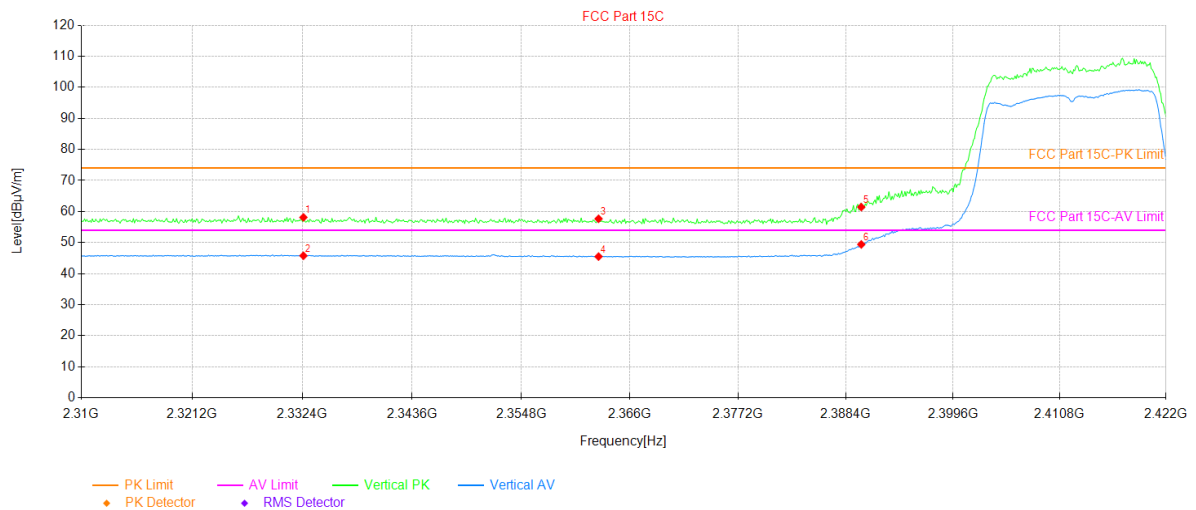
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	28.90	34.51	63.41	74.00	10.59	150	99	PK	Horizontal
2	2483.50	15.57	34.51	50.08	54.00	3.92	150	121	AV	Horizontal
3	2490.21	11.88	34.52	46.40	54.00	7.60	150	121	AV	Horizontal
4	2490.21	24.80	34.52	59.32	74.00	14.68	150	132	PK	Horizontal
5	2496.21	23.42	34.52	57.94	74.00	16.06	150	106	PK	Horizontal
6	2496.21	11.49	34.52	46.01	54.00	7.99	150	125	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



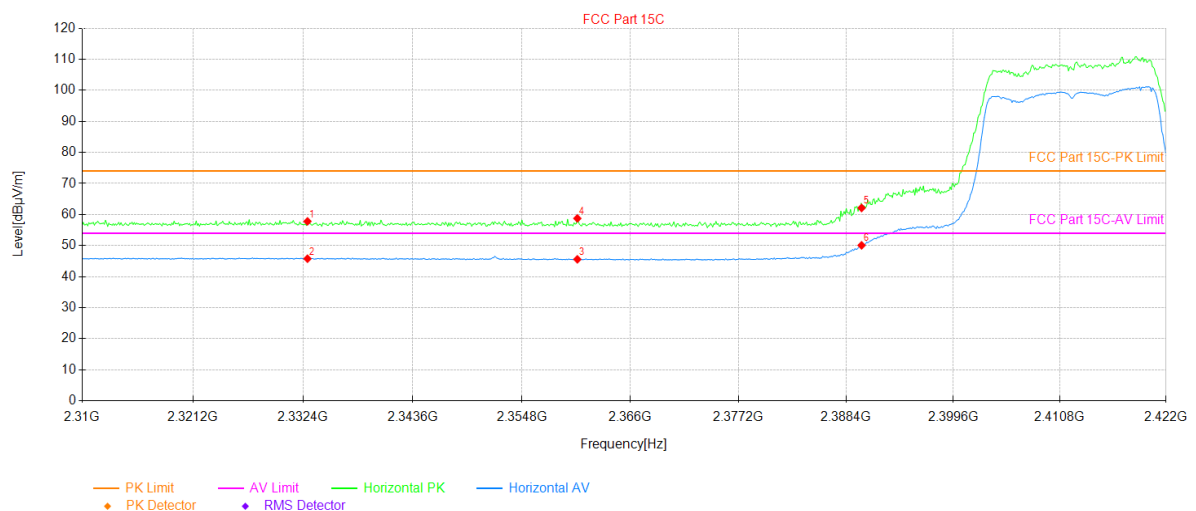
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2332.51	23.90	34.22	58.12	74.00	15.88	150	68	PK	Vertical
2	2332.51	11.54	34.22	45.76	54.00	8.24	150	42	AV	Vertical
3	2362.75	23.48	34.19	57.67	74.00	16.33	150	187	PK	Vertical
4	2362.75	11.31	34.19	45.50	54.00	8.50	150	131	AV	Vertical
5	2390.00	27.31	34.13	61.44	74.00	12.56	150	284	PK	Vertical
6	2390.00	15.29	34.13	49.42	54.00	4.58	150	291	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



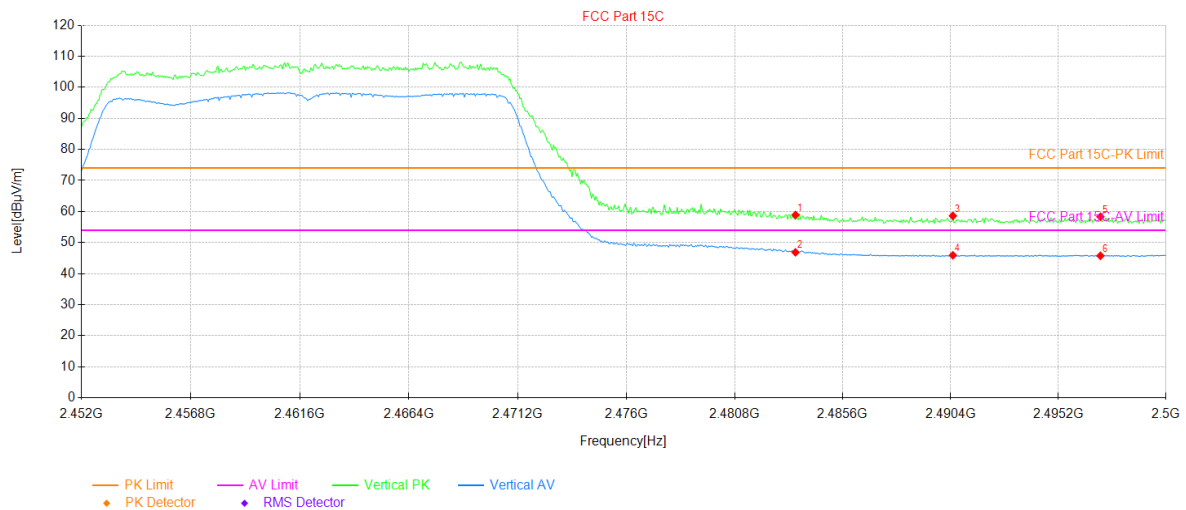
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2332.85	23.58	34.22	57.80	74.00	16.20	150	278	PK	Horizontal
2	2332.85	11.56	34.22	45.78	54.00	8.22	150	61	AV	Horizontal
3	2360.51	11.39	34.19	45.58	54.00	8.42	150	296	AV	Horizontal
4	2360.51	24.57	34.19	58.76	74.00	15.24	150	292	PK	Horizontal
5	2390.00	28.00	34.13	62.13	74.00	11.87	150	285	PK	Horizontal
6	2390.00	15.96	34.13	50.09	54.00	3.91	150	274	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



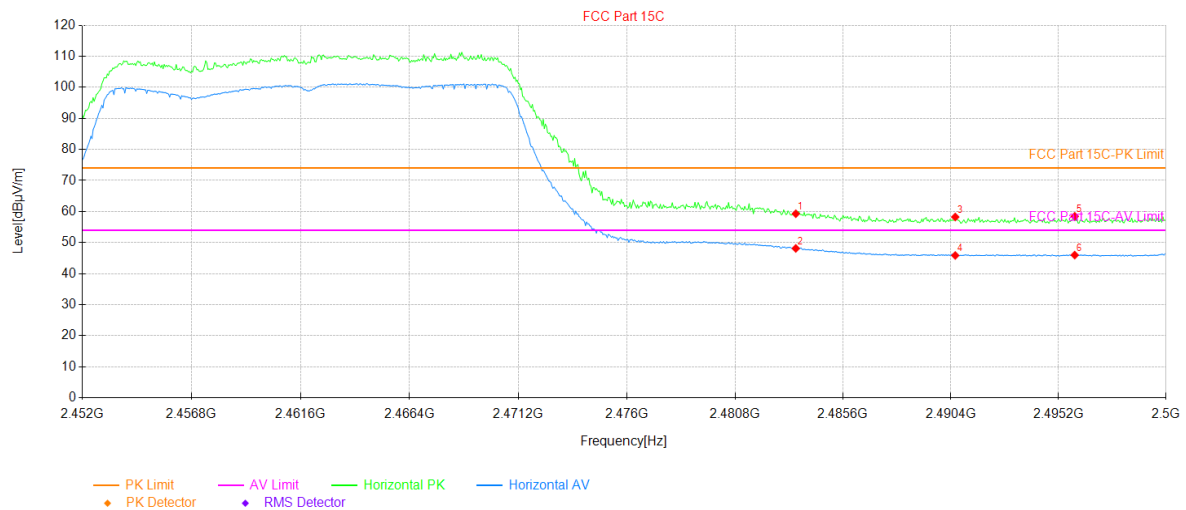
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.38	34.51	58.89	74.00	15.11	150	280	PK	Vertical
2	2483.50	12.36	34.51	46.87	54.00	7.13	150	280	AV	Vertical
3	2490.50	24.09	34.52	58.61	74.00	15.39	150	122	PK	Vertical
4	2490.50	11.39	34.52	45.91	54.00	8.09	150	273	AV	Vertical
5	2497.07	23.83	34.52	58.35	74.00	15.65	150	12	PK	Vertical
6	2497.07	11.23	34.52	45.75	54.00	8.25	150	111	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



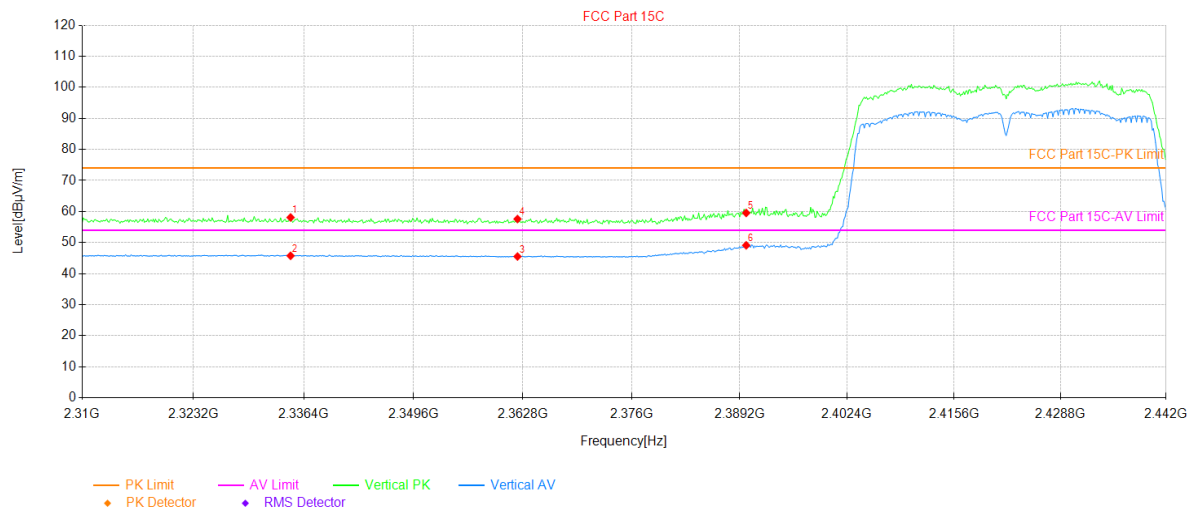
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.78	34.51	59.29	74.00	14.71	150	268	PK	Horizontal
2	2483.50	13.62	34.51	48.13	54.00	5.87	150	279	AV	Horizontal
3	2490.59	23.72	34.52	58.24	74.00	15.76	150	18	PK	Horizontal
4	2490.59	11.34	34.52	45.86	54.00	8.14	150	121	AV	Horizontal
5	2495.92	23.94	34.52	58.46	74.00	15.54	150	279	PK	Horizontal
6	2495.92	11.46	34.52	45.98	54.00	8.02	150	124	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



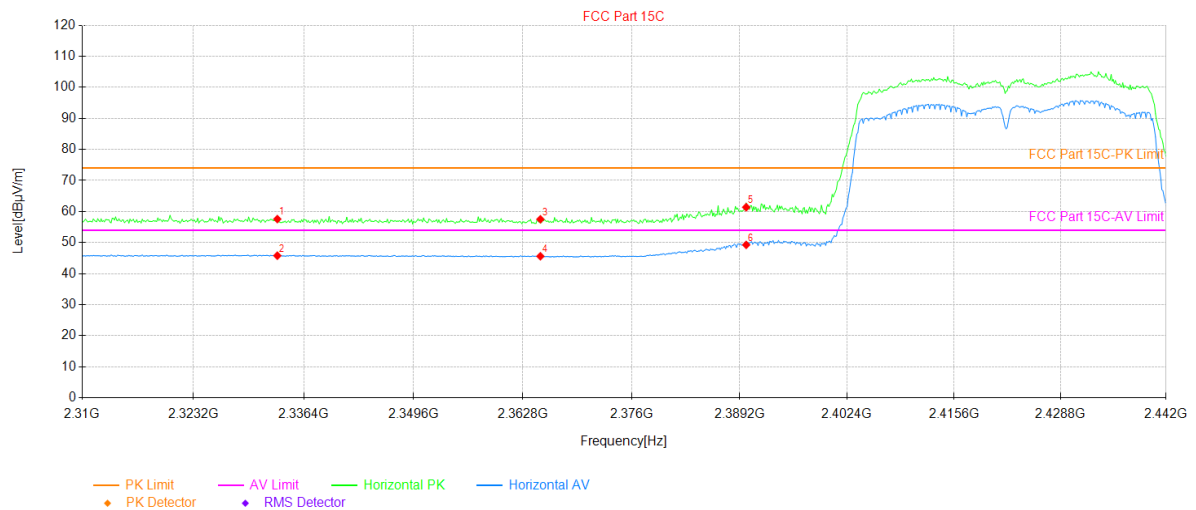
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2334.82	23.88	34.22	58.10	74.00	15.90	150	172	PK	Vertical
2	2334.82	11.53	34.22	45.75	54.00	8.25	150	34	AV	Vertical
3	2362.14	11.33	34.19	45.52	54.00	8.48	150	299	AV	Vertical
4	2362.14	23.40	34.19	57.59	74.00	16.41	150	180	PK	Vertical
5	2390.00	25.41	34.13	59.54	74.00	14.46	150	114	PK	Vertical
6	2390.00	14.98	34.13	49.11	54.00	4.89	150	122	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



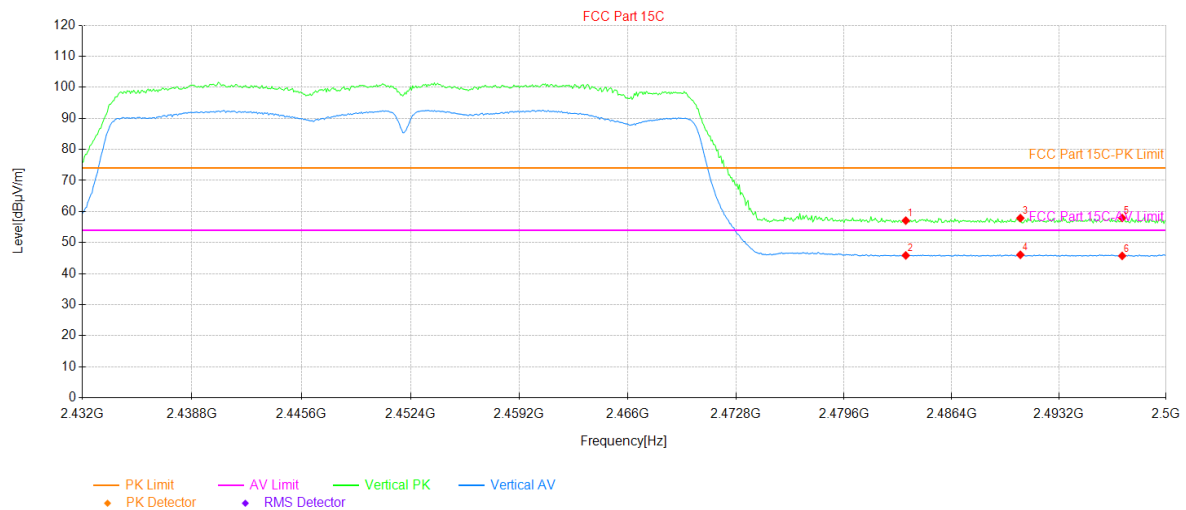
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2333.23	23.36	34.22	57.58	74.00	16.42	150	106	PK	Horizontal
2	2333.23	11.57	34.22	45.79	54.00	8.21	150	277	AV	Horizontal
3	2364.91	23.32	34.19	57.51	74.00	16.49	150	162	PK	Horizontal
4	2364.91	11.42	34.19	45.61	54.00	8.39	150	121	AV	Horizontal
5	2390.00	27.26	34.13	61.39	74.00	12.61	150	125	PK	Horizontal
6	2390.00	15.14	34.13	49.27	54.00	4.73	150	125	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



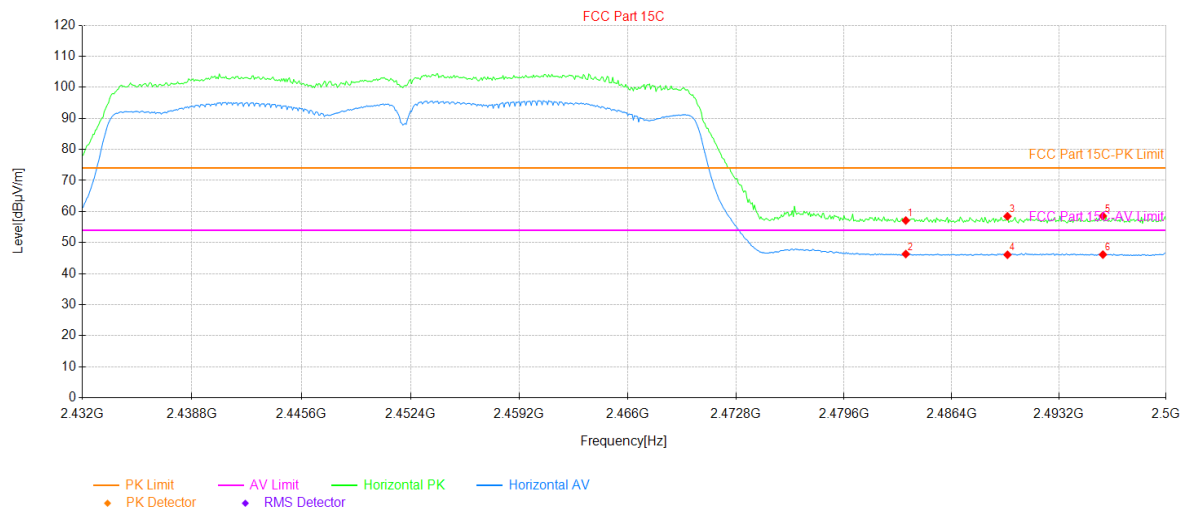
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	22.57	34.51	57.08	74.00	16.92	150	200	PK	Vertical
2	2483.50	11.35	34.51	45.86	54.00	8.14	150	101	AV	Vertical
3	2490.75	23.36	34.52	57.88	74.00	16.12	150	26	PK	Vertical
4	2490.75	11.55	34.52	46.07	54.00	7.93	150	274	AV	Vertical
5	2497.21	23.41	34.52	57.93	74.00	16.07	150	141	PK	Vertical
6	2497.21	11.20	34.52	45.72	54.00	8.28	150	123	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

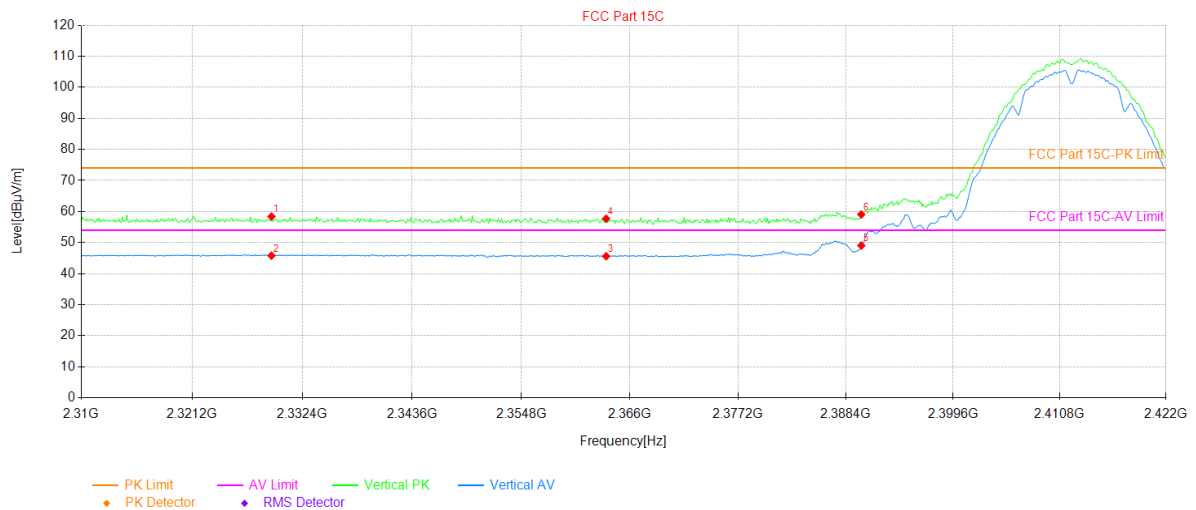
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	22.61	34.51	57.12	74.00	16.88	150	352	PK	Horizontal
2	2483.50	11.81	34.51	46.32	54.00	7.68	150	278	AV	Horizontal
3	2489.94	23.94	34.52	58.46	74.00	15.54	150	36	PK	Horizontal
4	2489.94	11.56	34.52	46.08	54.00	7.92	150	281	AV	Horizontal
5	2495.99	24.04	34.52	58.56	74.00	15.44	150	274	PK	Horizontal
6	2495.99	11.62	34.52	46.14	54.00	7.86	150	285	AV	Horizontal

Remark:

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

ANTB-1:

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

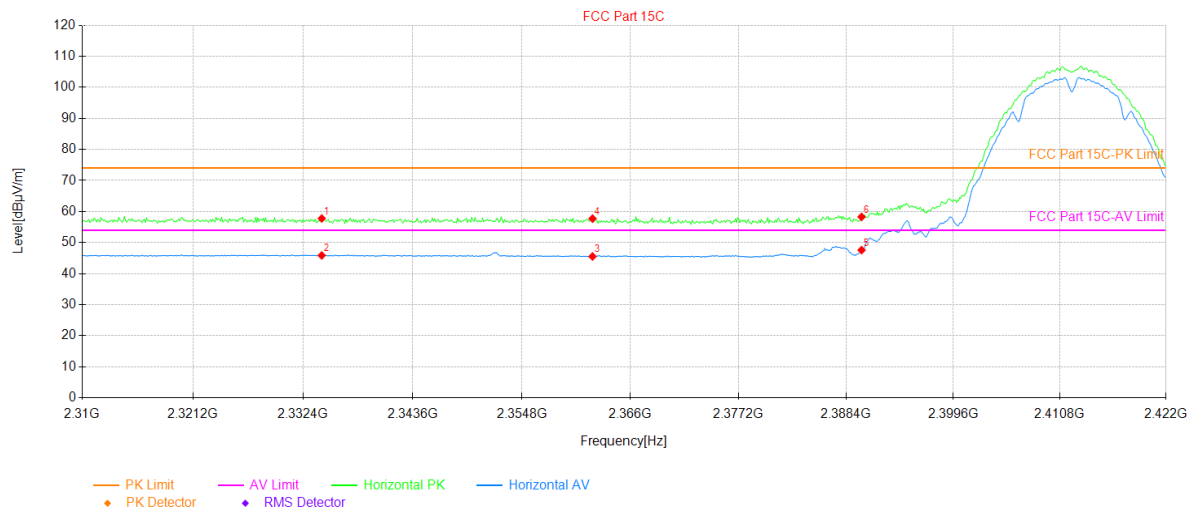

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2329.26	24.18	34.21	58.39	74.00	15.61	150	45	PK	Vertical
2	2329.26	11.58	34.21	45.79	54.00	8.21	150	278	AV	Vertical
3	2363.54	11.43	34.19	45.62	54.00	8.38	150	296	AV	Vertical
4	2363.54	23.51	34.19	57.70	74.00	16.30	150	359	PK	Vertical
5	2390.00	14.92	34.13	49.05	54.00	4.95	150	292	AV	Vertical
6	2390.00	24.94	34.13	59.07	74.00	14.93	150	292	PK	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



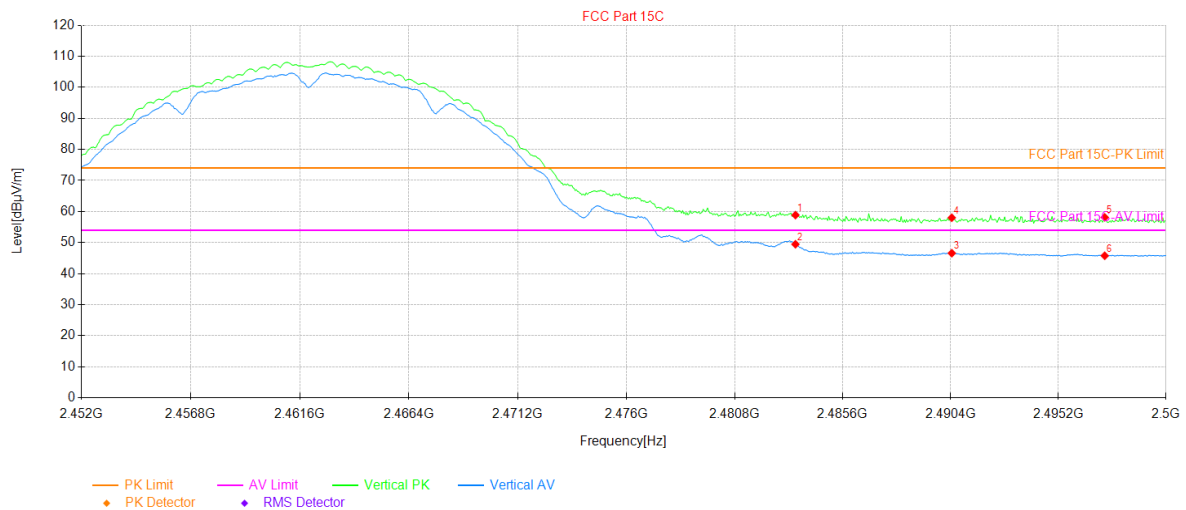
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2334.30	23.55	34.22	57.77	74.00	16.23	150	1	PK	Horizontal
2	2334.30	11.65	34.22	45.87	54.00	8.13	150	312	AV	Horizontal
3	2362.08	11.35	34.19	45.54	54.00	8.46	150	195	AV	Horizontal
4	2362.08	23.54	34.19	57.73	74.00	16.27	150	67	PK	Horizontal
5	2390.00	13.45	34.13	47.58	54.00	6.42	150	114	AV	Horizontal
6	2390.00	24.15	34.13	58.28	74.00	15.72	150	358	PK	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



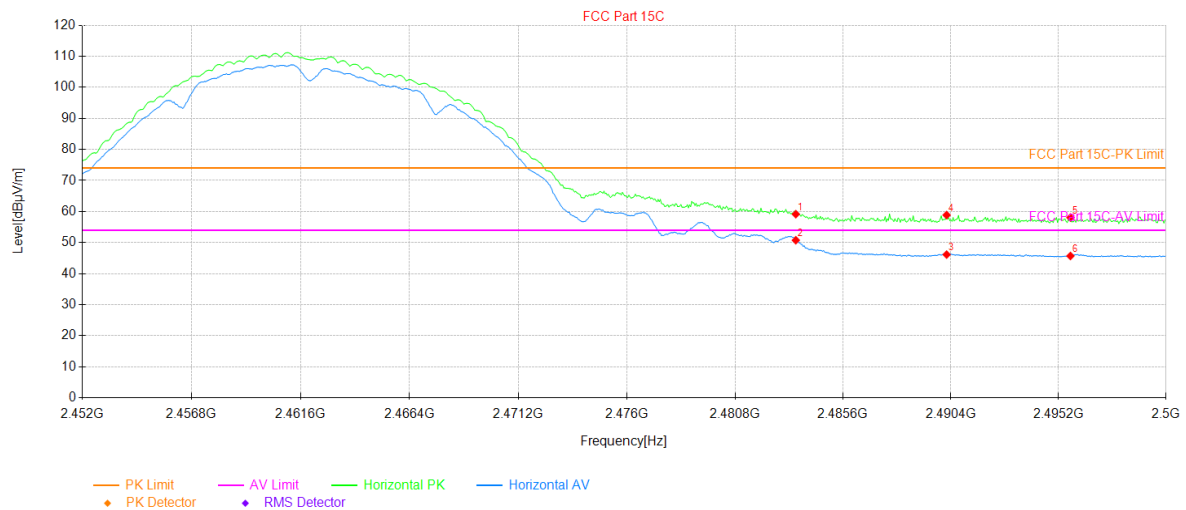
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.35	34.51	58.86	74.00	15.14	150	4	PK	Vertical
2	2483.50	14.96	34.51	49.47	54.00	4.53	150	212	AV	Vertical
3	2490.45	12.08	34.52	46.60	54.00	7.40	150	256	AV	Vertical
4	2490.45	23.49	34.52	58.01	74.00	15.99	150	271	PK	Vertical
5	2497.26	23.60	34.53	58.13	74.00	15.87	150	234	PK	Vertical
6	2497.26	11.24	34.53	45.77	54.00	8.23	150	234	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



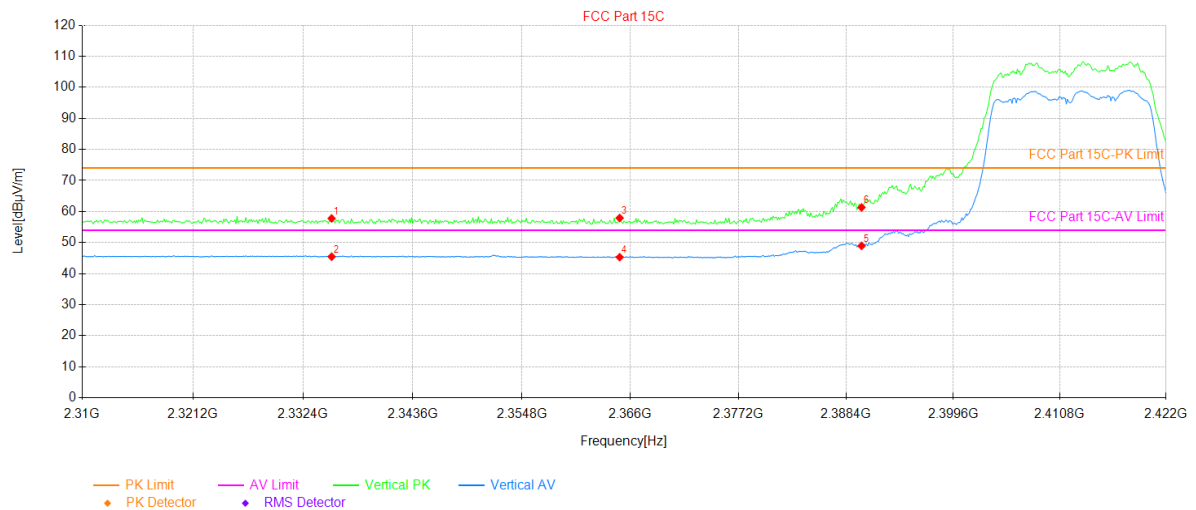
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.65	34.51	59.16	74.00	14.84	150	282	PK	Horizontal
2	2483.50	16.26	34.51	50.77	54.00	3.23	150	282	AV	Horizontal
3	2490.21	11.62	34.52	46.14	54.00	7.86	150	100	AV	Horizontal
4	2490.21	24.35	34.52	58.87	74.00	15.13	150	263	PK	Horizontal
5	2495.73	23.55	34.52	58.07	74.00	15.93	150	152	PK	Horizontal
6	2495.73	11.18	34.52	45.70	54.00	8.30	150	111	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



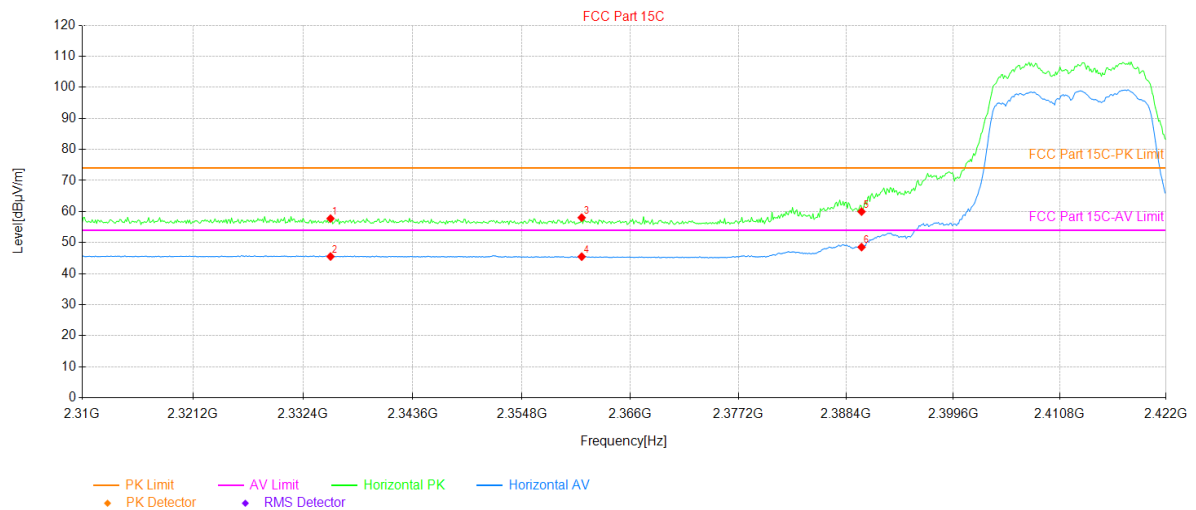
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle[°]	Detector	Polarity
1	2335.31	23.56	34.22	57.78	74.00	16.22	150	188	PK	Vertical
2	2335.31	11.24	34.22	45.46	54.00	8.54	150	158	AV	Vertical
3	2364.88	23.73	34.19	57.92	74.00	16.08	150	281	PK	Vertical
4	2364.88	11.11	34.19	45.30	54.00	8.70	150	244	AV	Vertical
5	2390.00	14.82	34.13	48.95	54.00	5.05	150	330	AV	Vertical
6	2390.00	27.20	34.13	61.33	74.00	12.67	150	352	PK	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



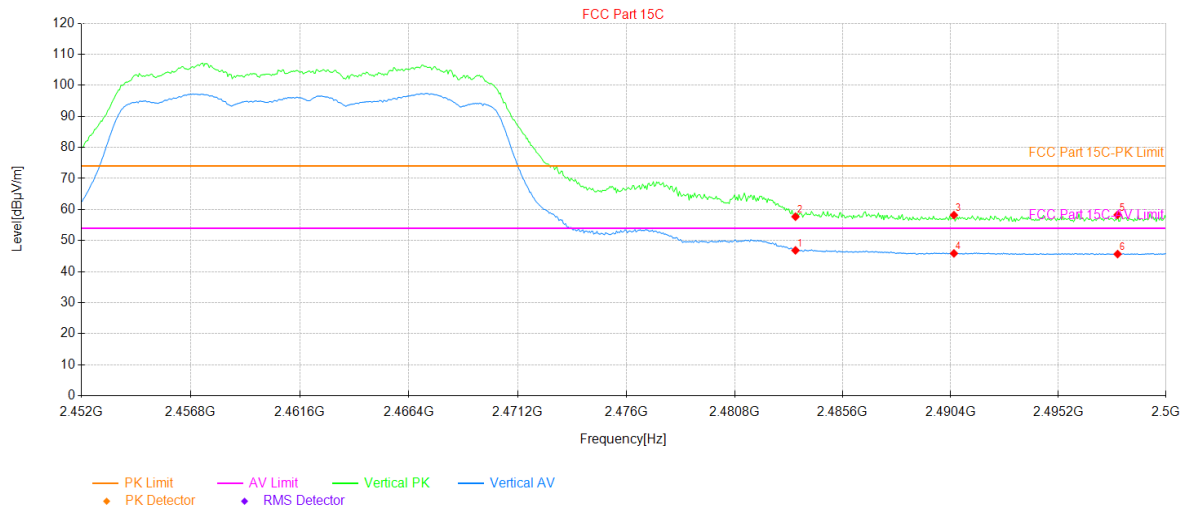
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2335.20	23.52	34.22	57.74	74.00	16.26	150	195	PK	Horizontal
2	2335.20	11.30	34.22	45.52	54.00	8.48	150	23	AV	Horizontal
3	2360.96	23.84	34.19	58.03	74.00	15.97	150	288	PK	Horizontal
4	2360.96	11.28	34.19	45.47	54.00	8.53	150	336	AV	Horizontal
5	2390.00	25.84	34.13	59.97	74.00	14.03	150	23	PK	Horizontal
6	2390.00	14.41	34.13	48.54	54.00	5.46	150	42	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



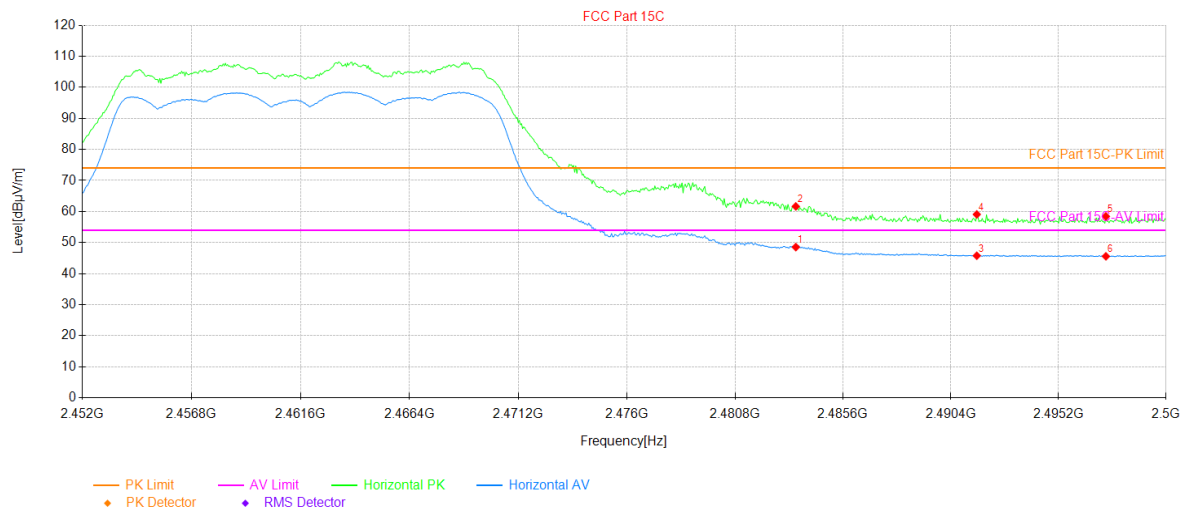
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	12.34	34.51	46.85	54.00	7.15	150	300	AV	Vertical
2	2483.50	23.19	34.51	57.70	74.00	16.30	150	190	PK	Vertical
3	2490.54	23.69	34.52	58.21	74.00	15.79	150	2	PK	Vertical
4	2490.54	11.35	34.52	45.87	54.00	8.13	150	275	AV	Vertical
5	2497.84	23.77	34.53	58.30	74.00	15.70	150	100	PK	Vertical
6	2497.84	11.14	34.53	45.67	54.00	8.33	150	283	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

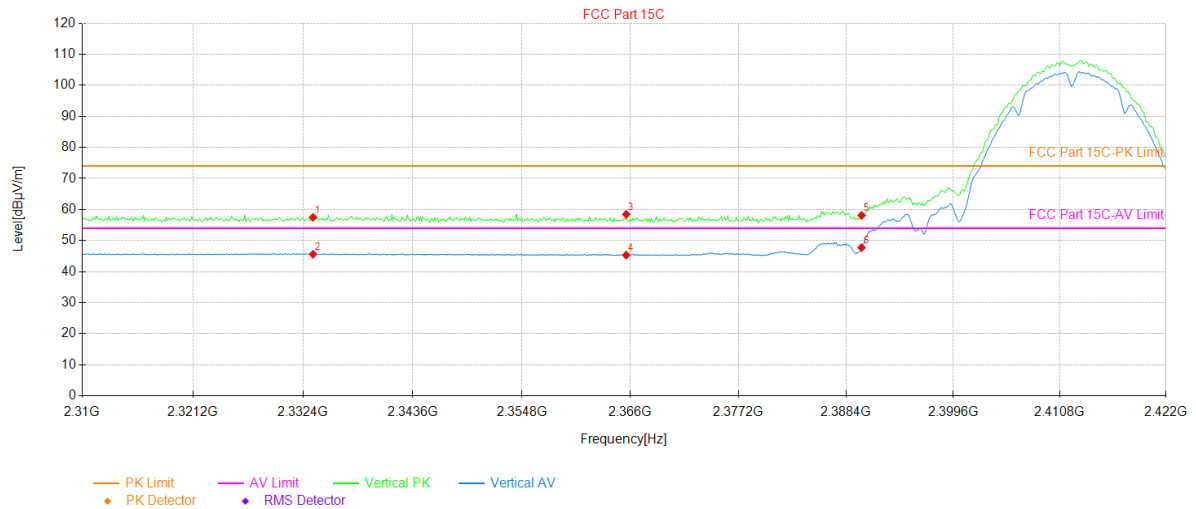
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	14.04	34.51	48.55	54.00	5.45	150	282	AV	Horizontal
2	2483.50	27.13	34.51	61.64	74.00	12.36	150	274	PK	Horizontal
3	2491.55	11.25	34.52	45.77	54.00	8.23	150	89	AV	Horizontal
4	2491.55	24.56	34.52	59.08	74.00	14.92	150	89	PK	Horizontal
5	2497.31	23.92	34.53	58.45	74.00	15.55	150	107	PK	Horizontal
6	2497.31	11.05	34.53	45.58	54.00	8.42	150	66	AV	Horizontal

Remark:

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

ANTB-2:

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



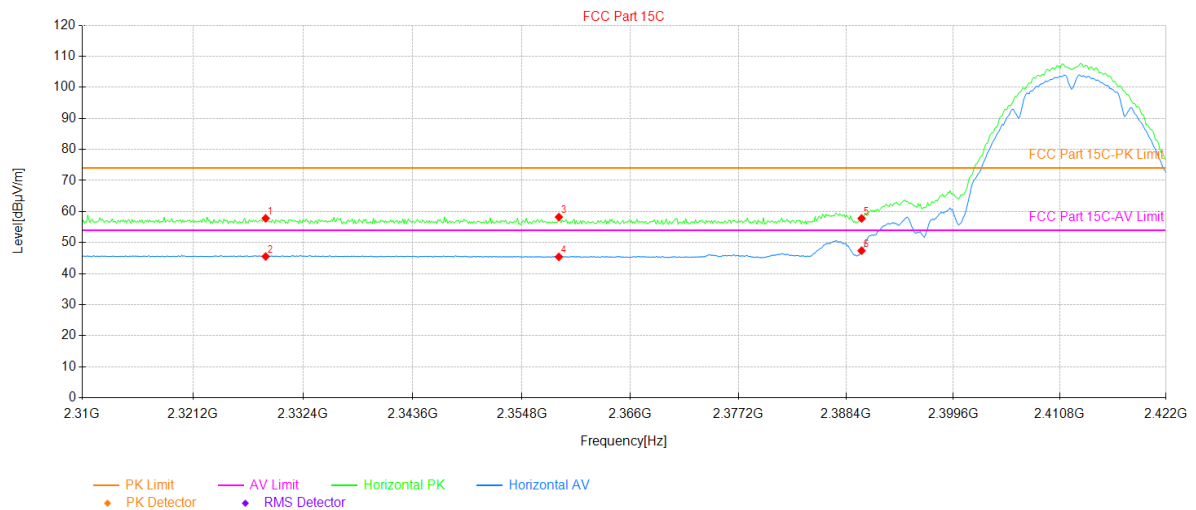
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle[°]	Detector	Polarity
1	2333.41	23.28	34.22	57.50	74.00	16.50	150	128	PK	Vertical
2	2333.41	11.37	34.22	45.59	54.00	8.41	150	319	AV	Vertical
3	2365.55	24.27	34.18	58.45	74.00	15.55	150	341	PK	Vertical
4	2365.55	11.16	34.18	45.34	54.00	8.66	150	128	AV	Vertical
5	2390.00	23.97	34.13	58.10	74.00	15.90	150	240	PK	Vertical
6	2390.00	13.62	34.13	47.75	54.00	6.25	150	84	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



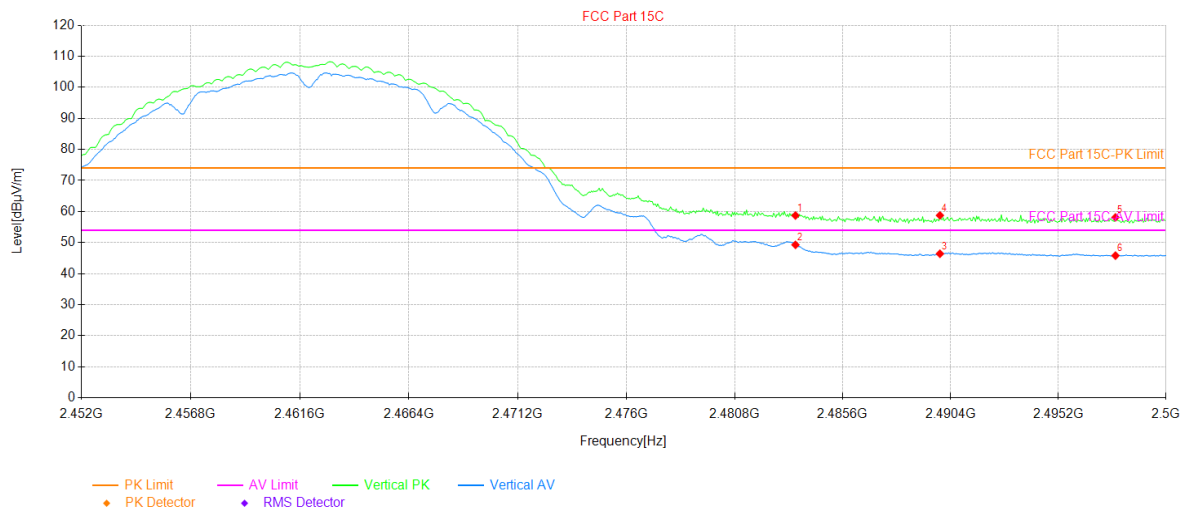
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2328.59	23.61	34.20	57.81	74.00	16.19	150	274	PK	Horizontal
2	2328.59	11.32	34.20	45.52	54.00	8.48	150	318	AV	Horizontal
3	2358.61	24.03	34.20	58.23	74.00	15.77	150	240	PK	Horizontal
4	2358.61	11.20	34.20	45.40	54.00	8.60	150	214	AV	Horizontal
5	2390.00	23.65	34.13	57.78	74.00	16.22	150	38	PK	Horizontal
6	2390.00	13.26	34.13	47.39	54.00	6.61	150	326	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



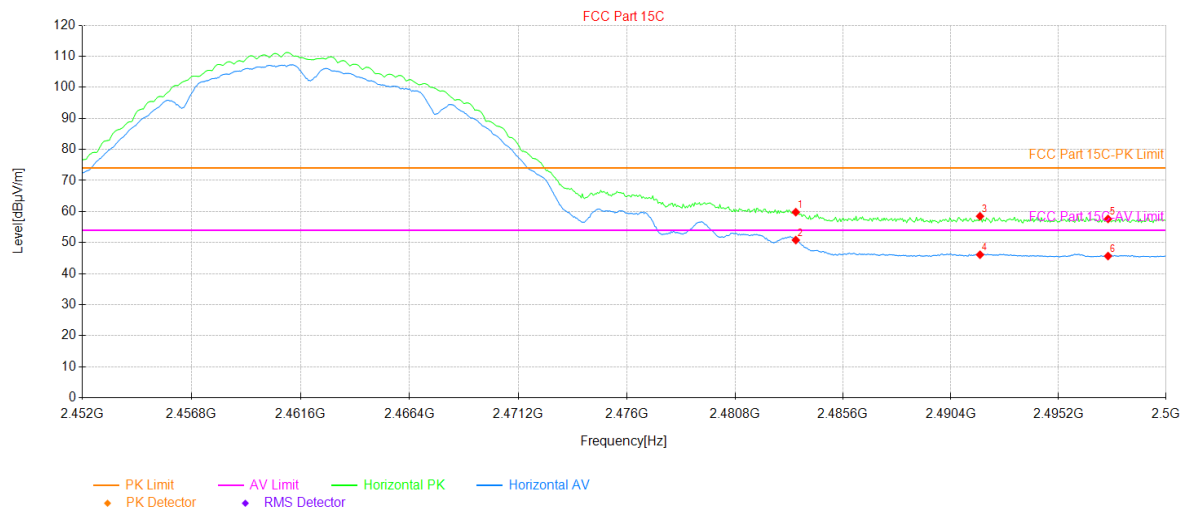
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.21	34.51	58.72	74.00	15.28	150	2	PK	Vertical
2	2483.50	14.77	34.51	49.28	54.00	4.72	150	208	AV	Vertical
3	2489.92	11.89	34.52	46.41	54.00	7.59	150	256	AV	Vertical
4	2489.92	24.25	34.52	58.77	74.00	15.23	150	323	PK	Vertical
5	2497.74	23.59	34.53	58.12	74.00	15.88	150	130	PK	Vertical
6	2497.74	11.28	34.53	45.81	54.00	8.19	150	301	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



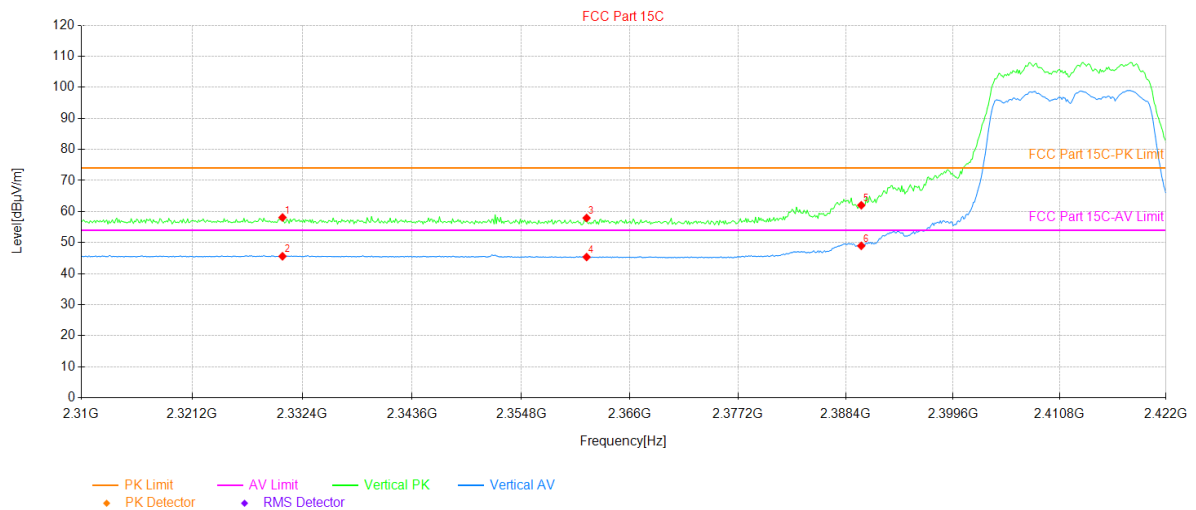
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [B]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	25.29	34.51	59.80	74.00	14.20	150	300	PK	Horizontal
2	2483.50	16.30	34.51	50.81	54.00	3.19	150	274	AV	Horizontal
3	2491.70	23.97	34.52	58.49	74.00	15.51	150	274	PK	Horizontal
4	2491.70	11.58	34.52	46.10	54.00	7.90	150	93	AV	Horizontal
5	2497.41	23.09	34.53	57.62	74.00	16.38	150	108	PK	Horizontal
6	2497.41	11.14	34.53	45.67	54.00	8.33	150	282	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



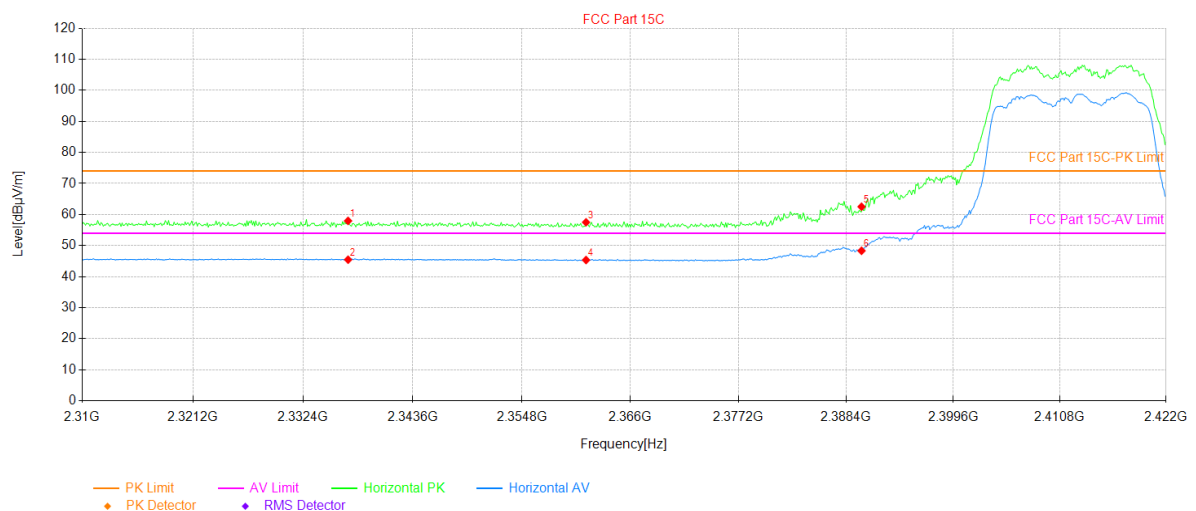
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2330.38	23.87	34.22	58.09	74.00	15.91	150	148	PK	Vertical
2	2330.38	11.37	34.22	45.59	54.00	8.41	150	148	AV	Vertical
3	2361.52	23.73	34.19	57.92	74.00	16.08	150	319	PK	Vertical
4	2361.52	11.16	34.19	45.35	54.00	8.65	150	122	AV	Vertical
5	2390.00	27.90	34.13	62.03	74.00	11.97	150	345	PK	Vertical
6	2390.00	14.83	34.13	48.96	54.00	5.04	150	349	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



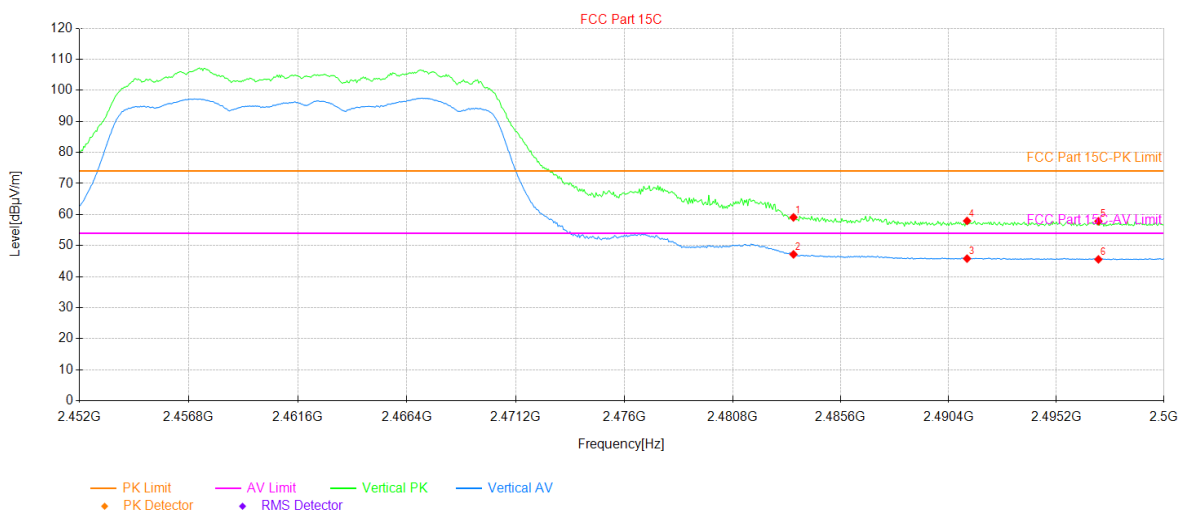
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2336.99	23.74	34.22	57.96	74.00	16.04	150	335	PK	Horizontal
2	2336.99	11.24	34.22	45.46	54.00	8.54	150	109	AV	Horizontal
3	2361.41	23.32	34.19	57.51	74.00	16.49	150	72	PK	Horizontal
4	2361.41	11.16	34.19	45.35	54.00	8.65	150	102	AV	Horizontal
5	2390.00	28.38	34.13	62.51	74.00	11.49	150	46	PK	Horizontal
6	2390.00	14.20	34.13	48.33	54.00	5.67	150	131	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



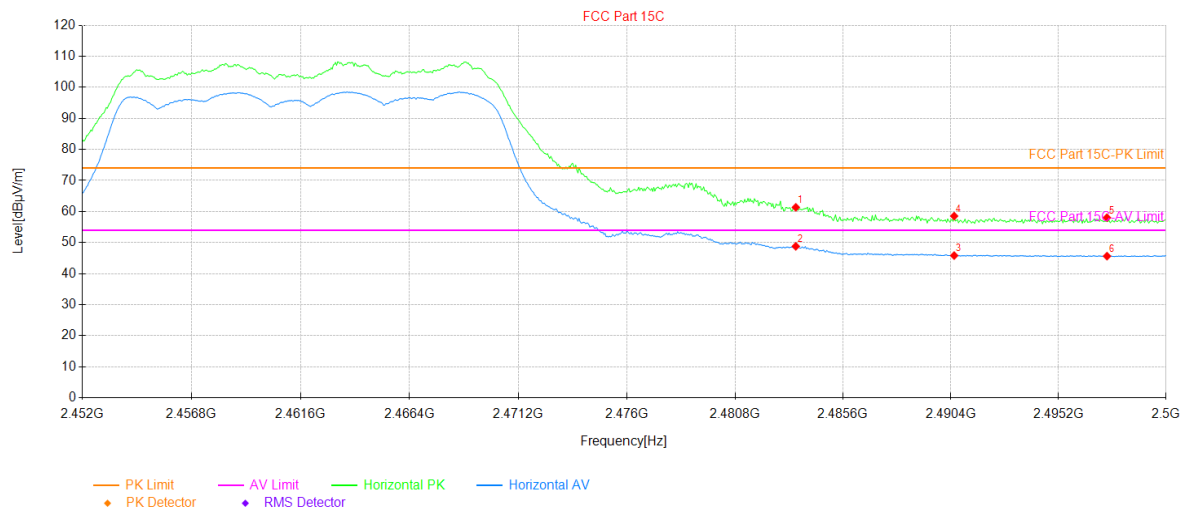
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	24.58	34.51	59.09	74.00	14.91	150	301	PK	Vertical
2	2483.50	12.67	34.51	47.18	54.00	6.82	150	301	AV	Vertical
3	2491.22	11.29	34.52	45.81	54.00	8.19	150	275	AV	Vertical
4	2491.22	23.42	34.52	57.94	74.00	16.06	150	279	PK	Vertical
5	2497.07	23.33	34.52	57.85	74.00	16.15	150	245	PK	Vertical
6	2497.07	11.06	34.52	45.58	54.00	8.42	150	308	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



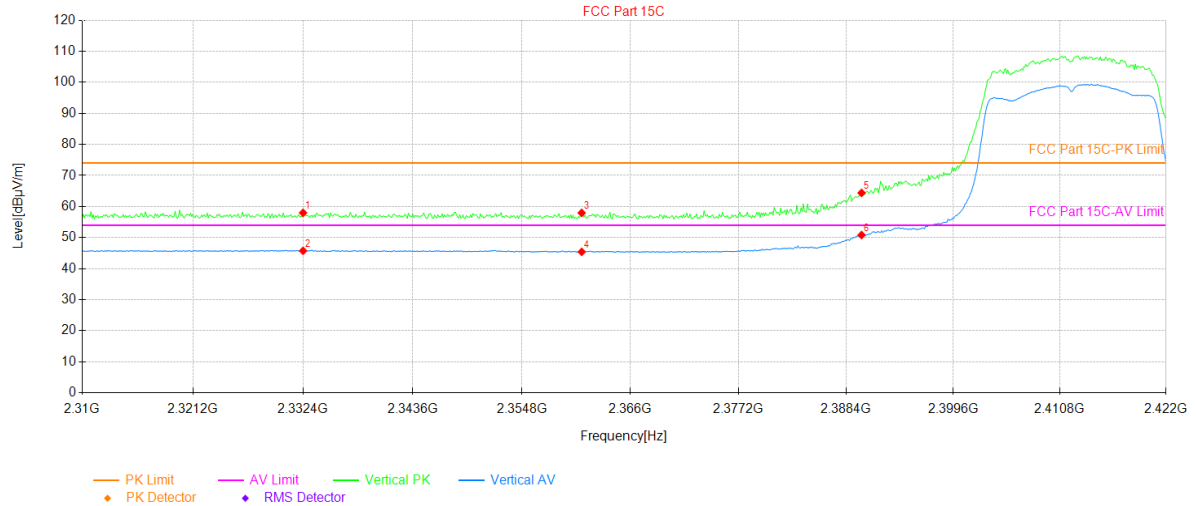
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	26.85	34.51	61.36	74.00	12.64	150	285	PK	Horizontal
2	2483.50	14.29	34.51	48.80	54.00	5.20	150	285	AV	Horizontal
3	2490.54	11.31	34.52	45.83	54.00	8.17	150	267	AV	Horizontal
4	2490.54	24.03	34.52	58.55	74.00	15.45	150	215	PK	Horizontal
5	2497.36	23.51	34.53	58.04	74.00	15.96	150	230	PK	Horizontal
6	2497.36	11.11	34.53	45.64	54.00	8.36	150	67	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



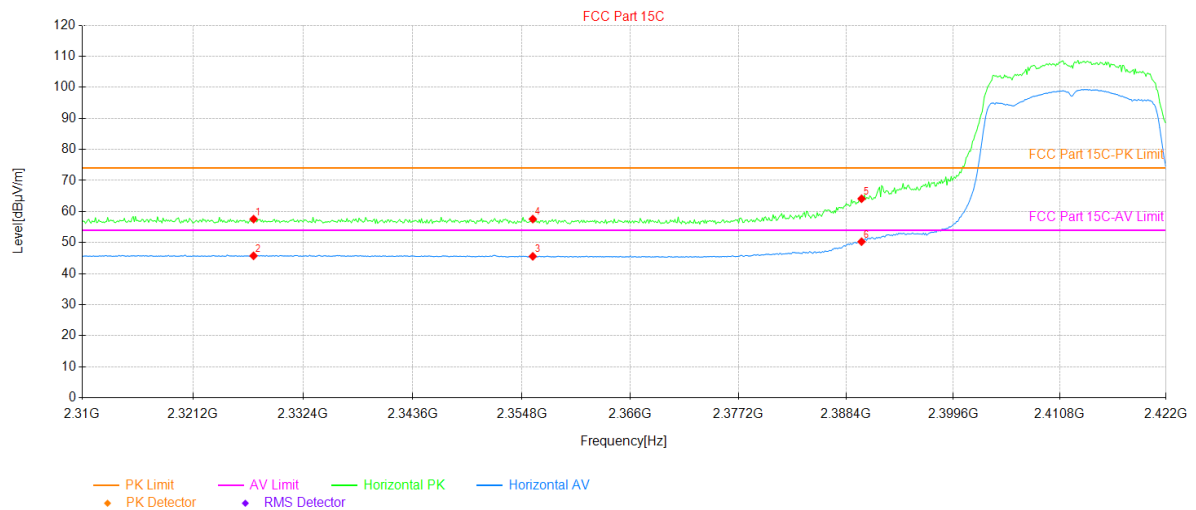
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle[°]	Detector	Polarity
1	2332.40	23.75	34.22	57.97	74.00	16.03	150	296	PK	Vertical
2	2332.40	11.52	34.22	45.74	54.00	8.26	150	41	AV	Vertical
3	2360.96	23.77	34.19	57.96	74.00	16.04	150	152	PK	Vertical
4	2360.96	11.23	34.19	45.42	54.00	8.58	150	352	AV	Vertical
5	2390.00	30.27	34.13	64.40	74.00	9.60	150	256	PK	Vertical
6	2390.00	16.69	34.13	50.82	54.00	3.18	150	256	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



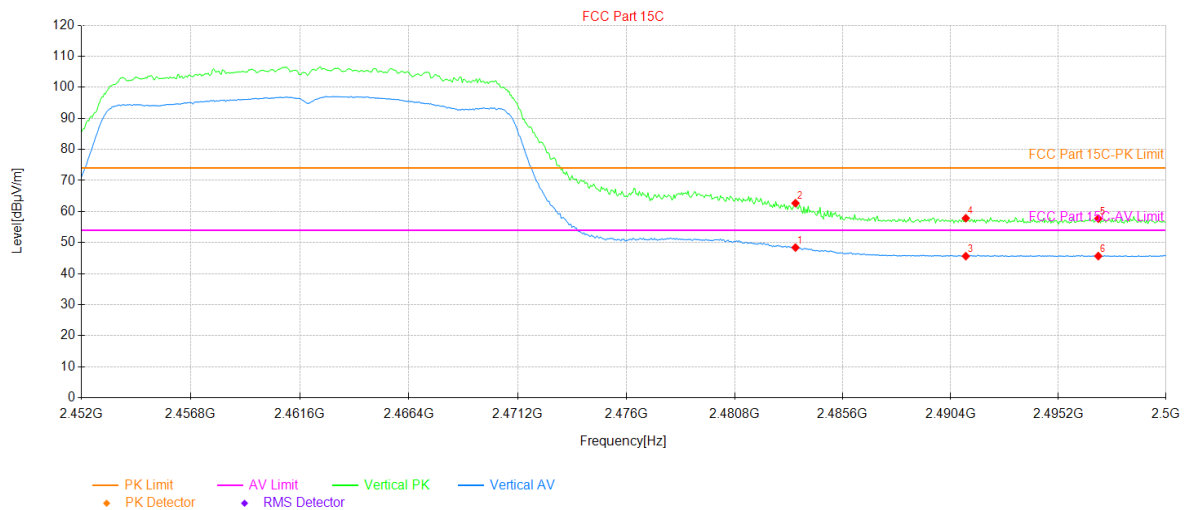
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2327.36	23.37	34.19	57.56	74.00	16.44	150	163	PK	Horizontal
2	2327.36	11.55	34.19	45.74	54.00	8.26	150	358	AV	Horizontal
3	2355.92	11.37	34.20	45.57	54.00	8.43	150	255	AV	Horizontal
4	2355.92	23.37	34.20	57.57	74.00	16.43	150	4	PK	Horizontal
5	2390.00	30.00	34.13	64.13	74.00	9.87	150	240	PK	Horizontal
6	2390.00	16.17	34.13	50.30	54.00	3.70	150	266	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



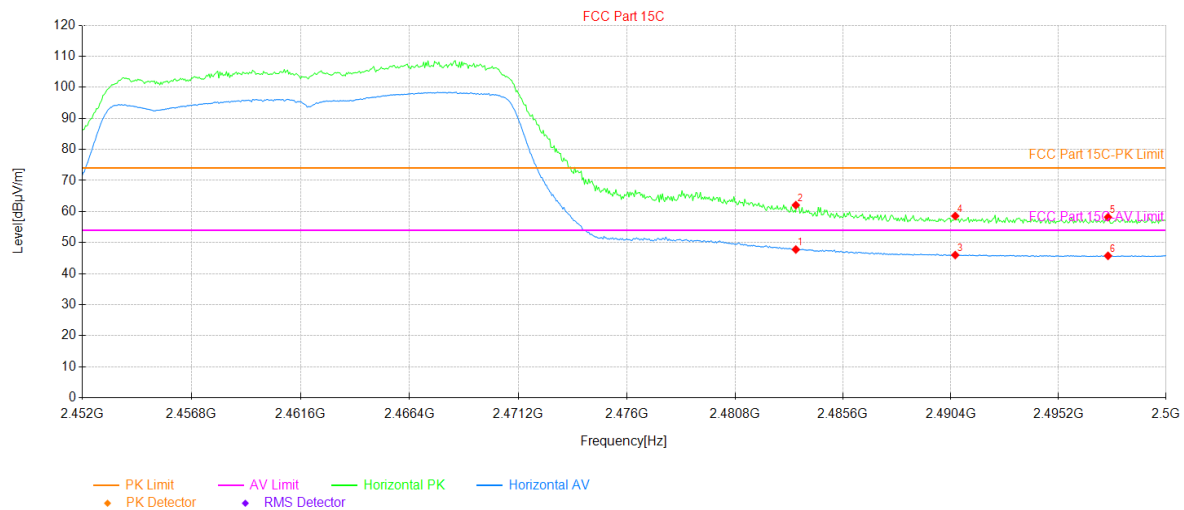
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	13.90	34.51	48.41	54.00	5.59	150	297	AV	Vertical
2	2483.50	28.18	34.51	62.69	74.00	11.31	150	297	PK	Vertical
3	2491.07	11.11	34.52	45.63	54.00	8.37	150	201	AV	Vertical
4	2491.07	23.33	34.52	57.85	74.00	16.15	150	308	PK	Vertical
5	2496.98	23.21	34.52	57.73	74.00	16.27	150	75	PK	Vertical
6	2496.98	11.14	34.52	45.66	54.00	8.34	150	8	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT20 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



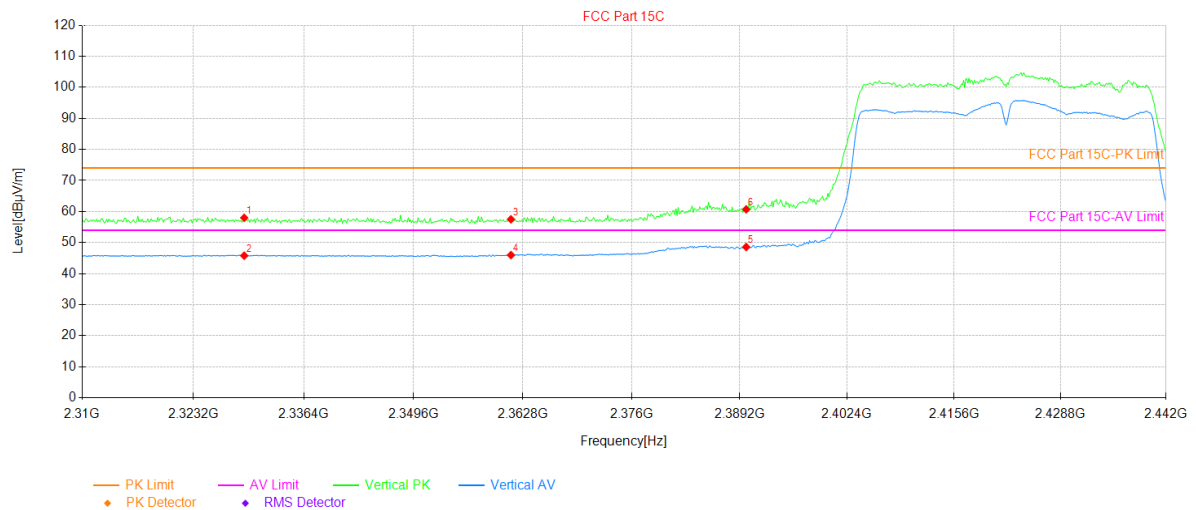
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	13.27	34.51	47.78	54.00	6.22	150	93	AV	Horizontal
2	2483.50	27.56	34.51	62.07	74.00	11.93	150	278	PK	Horizontal
3	2490.59	11.47	34.52	45.99	54.00	8.01	150	271	AV	Horizontal
4	2490.59	24.05	34.52	58.57	74.00	15.43	150	356	PK	Horizontal
5	2497.41	23.65	34.53	58.18	74.00	15.82	150	52	PK	Horizontal
6	2497.41	11.21	34.53	45.74	54.00	8.26	150	308	AV	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



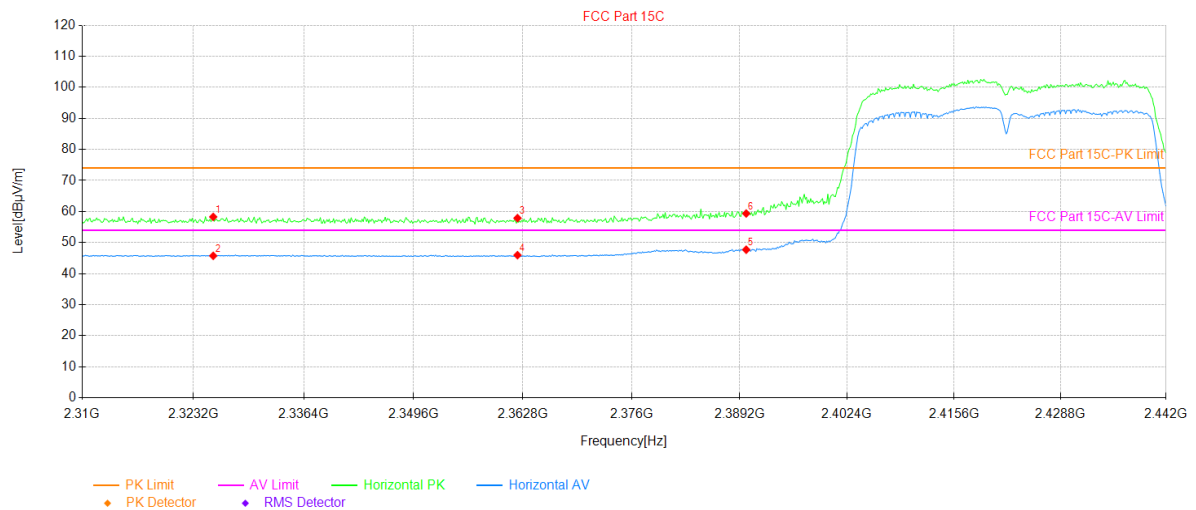
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle[°]	Detector	Polarity
1	2329.27	23.76	34.22	57.98	74.00	16.02	150	153	PK	Vertical
2	2329.27	11.57	34.22	45.79	54.00	8.21	150	319	AV	Vertical
3	2361.35	23.31	34.19	57.50	74.00	16.50	150	349	PK	Vertical
4	2361.35	11.78	34.19	45.97	54.00	8.03	150	252	AV	Vertical
5	2390.00	14.46	34.13	48.59	54.00	5.41	150	3	AV	Vertical
6	2390.00	26.57	34.13	60.70	74.00	13.30	150	3	PK	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



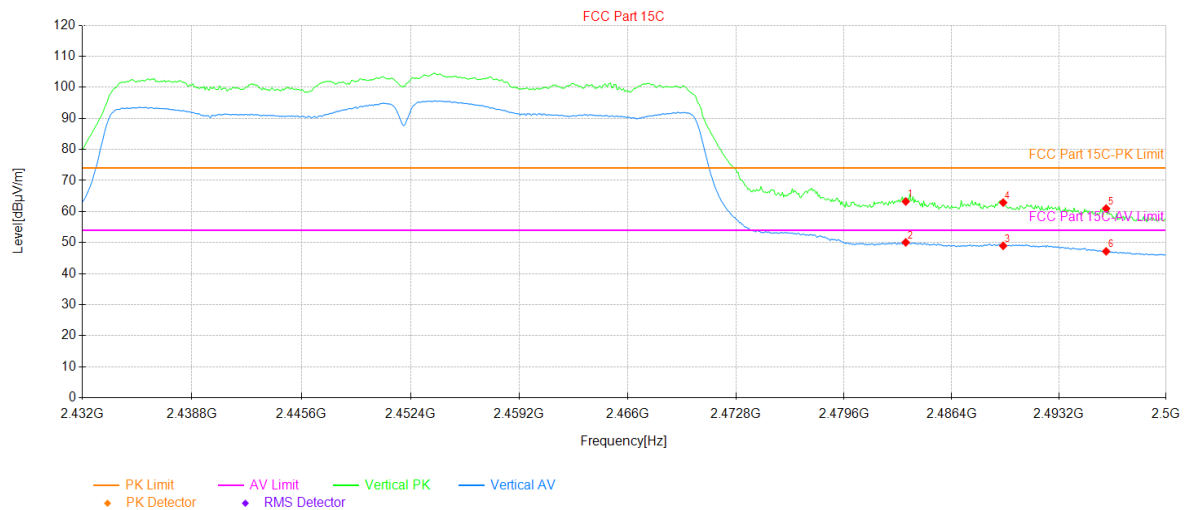
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2325.58	24.11	34.17	58.28	74.00	15.72	150	273	PK	Horizontal
2	2325.58	11.57	34.17	45.74	54.00	8.26	150	159	AV	Horizontal
3	2362.14	23.69	34.19	57.88	74.00	16.12	150	48	PK	Horizontal
4	2362.14	11.76	34.19	45.95	54.00	8.05	150	56	AV	Horizontal
5	2390.00	13.59	34.13	47.72	54.00	6.28	150	137	AV	Horizontal
6	2390.00	25.23	34.13	59.36	74.00	14.64	150	284	PK	Horizontal

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



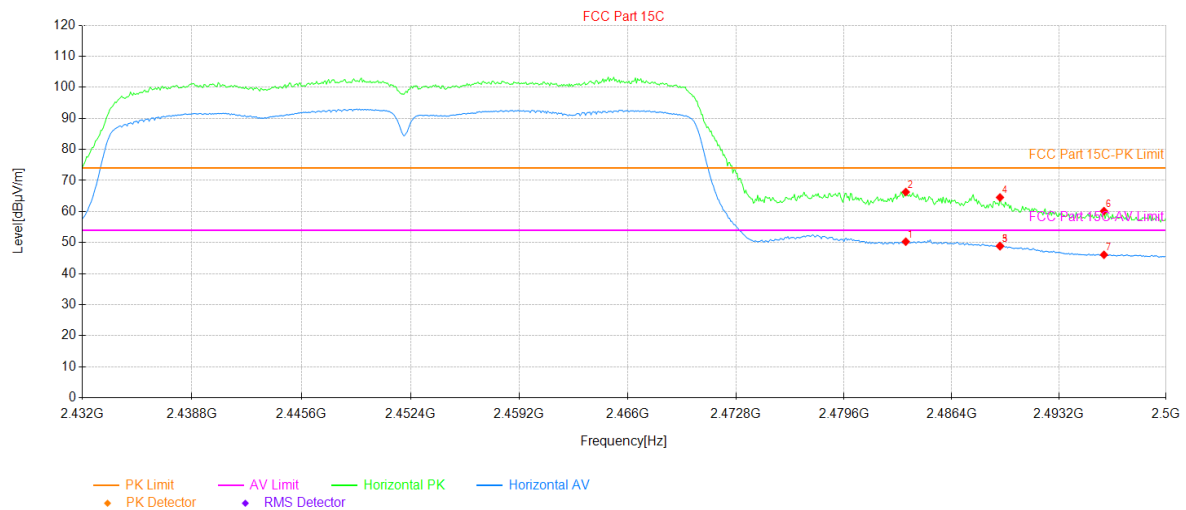
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle[°]	Detector	Polarity
1	2483.50	28.72	34.51	63.23	74.00	10.77	150	304	PK	Vertical
2	2483.50	15.56	34.51	50.07	54.00	3.93	150	319	AV	Vertical
3	2489.66	14.45	34.52	48.97	54.00	5.03	150	230	AV	Vertical
4	2489.66	28.37	34.52	62.89	74.00	11.11	150	252	PK	Vertical
5	2496.19	26.45	34.52	60.97	74.00	13.03	150	245	PK	Vertical
6	2496.19	12.66	34.52	47.18	54.00	6.82	150	241	AV	Vertical

Remark:

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

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	802.11n-HT40 MIMO Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	2483.50	15.79	34.51	50.30	54.00	3.70	150	67	AV	Horizontal
2	2483.50	31.77	34.51	66.28	74.00	7.72	150	67	PK	Horizontal
3	2489.46	14.36	34.52	48.88	54.00	5.12	150	67	AV	Horizontal
4	2489.46	30.02	34.52	64.54	74.00	9.46	150	67	PK	Horizontal
5	2489.46	14.36	34.52	48.88	54.00	5.12	150	67	AV	Horizontal
6	2496.06	25.62	34.52	60.14	74.00	13.86	150	127	PK	Horizontal
7	2496.06	11.56	34.52	46.08	54.00	7.92	150	130	AV	Horizontal

Remark:

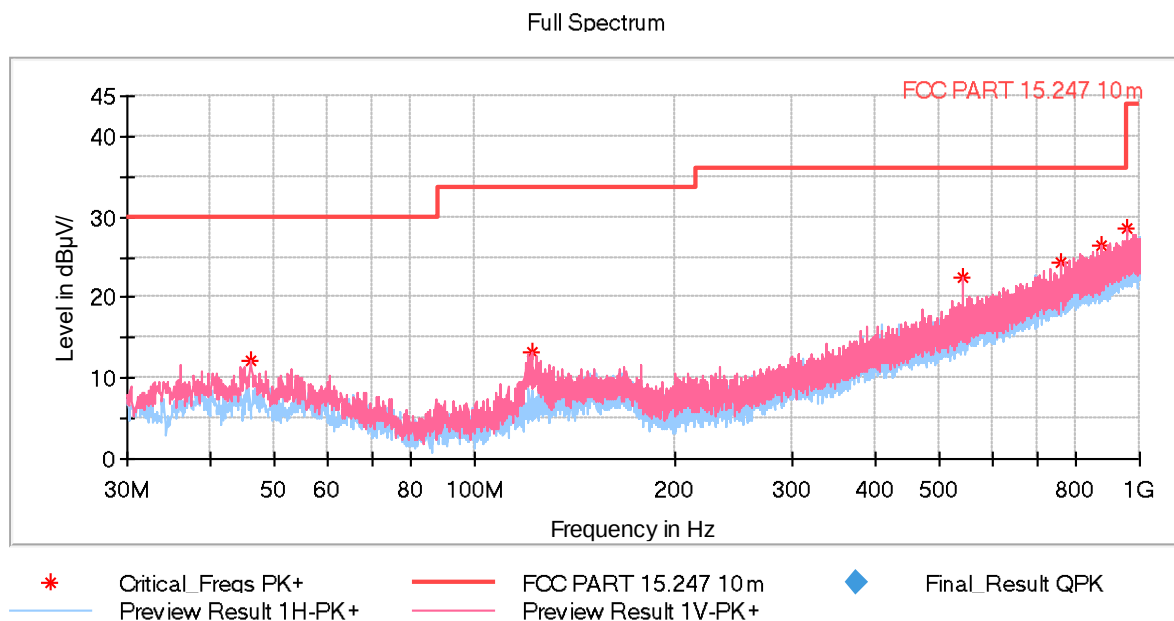
1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor)

5.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

ANT A:

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz		



Critical_Freqs

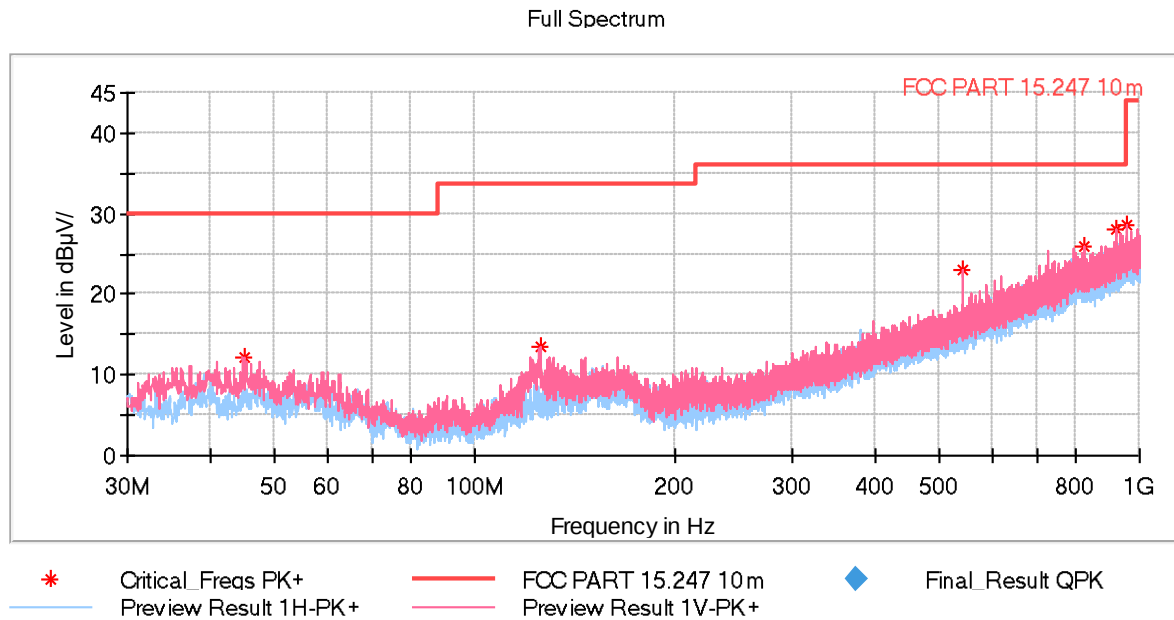
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.956500	12.15	30.00	17.85	100.0	V	225.0	-15.7
121.568000	13.24	33.50	20.26	100.0	V	276.0	-17.2
539.977500	22.45	36.00	13.55	100.0	V	167.0	-8.1
762.156000	24.37	36.00	11.63	100.0	V	73.0	-3.5
873.609000	26.43	36.00	9.57	100.0	V	346.0	-1.7
957.320000	28.63	36.00	7.37	100.0	V	218.0	0.2

Remark:

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

ANT B

Product Name:	Breadcrumb Module AG1	Product Model:	AG1-5250M
Test By:	June	Test mode:	2.4G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz		



Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.889500	12.25	30.00	17.75	100.0	V	96.0	-15.5
125.205500	13.47	33.50	20.03	100.0	V	222.0	-16.9
539.977500	22.94	36.00	13.06	100.0	V	244.0	-8.1
824.187500	26.03	36.00	9.97	100.0	V	288.0	-2.2
925.019000	28.15	36.00	7.85	100.0	V	89.0	-0.6
953.828000	28.47	36.00	7.53	100.0	V	222.0	0.1

Remark:

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

Above 1GHz:

ANTA-1:

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	64.53	-7.74	56.79	74.00	17.21	Vertical
4824.00	60.22	-7.74	52.48	74.00	21.52	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.04	-7.74	48.30	54.00	5.70	Vertical
4824.00	51.17	-7.74	43.43	54.00	10.57	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	64.30	-7.79	56.51	74.00	17.49	Vertical
4874.00	60.62	-7.79	52.83	74.00	21.17	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.96	-7.79	48.17	54.00	5.83	Vertical
4874.00	51.43	-7.79	43.64	54.00	10.36	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	64.41	-7.78	56.63	74.00	17.37	Vertical
4924.00	60.55	-7.78	52.77	74.00	21.23	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.41	-7.78	48.63	54.00	5.37	Vertical
4924.00	50.98	-7.78	43.20	54.00	10.80	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	63.92	-7.74	56.18	74.00	17.82	Vertical
4824.00	60.87	-7.74	53.13	74.00	20.87	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	57.23	-7.74	49.49	54.00	4.51	Vertical
4824.00	52.23	-7.74	44.49	54.00	9.51	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	63.52	-7.79	55.73	74.00	18.27	Vertical
4874.00	60.53	-7.79	52.74	74.00	21.26	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.09	-7.79	49.30	54.00	4.70	Vertical
4874.00	52.06	-7.79	44.27	54.00	9.73	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	63.64	-7.78	55.86	74.00	18.14	Vertical
4924.00	60.72	-7.78	52.94	74.00	21.06	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.44	-7.78	49.66	54.00	4.34	Vertical
4924.00	52.14	-7.78	44.36	54.00	9.64	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.						

ANTA-2:

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	65.00	-7.74	57.26	74.00	16.74	Vertical
4824.00	61.37	-7.74	53.63	74.00	20.37	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	58.11	-7.74	50.37	54.00	3.63	Vertical
4824.00	51.53	-7.74	43.79	54.00	10.21	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	64.55	-7.79	56.76	74.00	17.24	Vertical
4874.00	60.93	-7.79	53.14	74.00	20.86	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.63	-7.79	49.84	54.00	4.16	Vertical
4874.00	51.34	-7.79	43.55	54.00	10.45	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	64.31	-7.78	56.53	74.00	17.47	Vertical
4924.00	60.90	-7.78	53.12	74.00	20.88	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.49	-7.78	49.71	54.00	4.29	Vertical
4924.00	51.79	-7.78	44.01	54.00	9.99	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	63.26	-7.74	55.52	74.00	18.48	Vertical
4824.00	60.28	-7.74	52.54	74.00	21.46	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	57.04	-7.74	49.30	54.00	4.70	Vertical
4824.00	52.42	-7.74	44.68	54.00	9.32	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	63.39	-7.79	55.60	74.00	18.40	Vertical
4874.00	60.59	-7.79	52.80	74.00	21.20	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.19	-7.79	49.40	54.00	4.60	Vertical
4874.00	52.18	-7.79	44.39	54.00	9.61	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	63.62	-7.78	55.84	74.00	18.16	Vertical
4924.00	60.86	-7.78	53.08	74.00	20.92	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.06	-7.78	49.28	54.00	4.72	Vertical
4924.00	51.71	-7.78	43.93	54.00	10.07	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 MIMO						
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	61.03	-7.74	53.29	74.00	20.71	Vertical
4824.00	55.76	-7.74	48.02	74.00	25.98	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	55.38	-7.74	47.64	54.00	6.36	Vertical
4824.00	46.89	-7.74	39.15	54.00	14.85	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	60.99	-7.79	53.20	74.00	20.80	Vertical
4874.00	55.36	-7.79	47.57	74.00	26.43	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.13	-7.79	47.34	54.00	6.66	Vertical
4874.00	47.36	-7.79	39.57	54.00	14.43	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	60.64	-7.78	52.86	74.00	21.14	Vertical
4924.00	55.51	-7.78	47.73	74.00	26.27	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	55.59	-7.78	47.81	54.00	6.19	Vertical
4924.00	46.97	-7.78	39.19	54.00	14.81	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 MIMO						
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	60.32	-7.79	52.53	74.00	21.47	Vertical
4844.00	55.58	-7.79	47.79	74.00	26.21	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	55.15	-7.79	47.36	54.00	6.64	Vertical
4844.00	46.96	-7.79	39.17	54.00	14.83	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	60.52	-7.79	52.73	74.00	21.27	Vertical
4874.00	56.04	-7.79	48.25	74.00	25.75	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.55	-7.79	47.76	54.00	6.24	Vertical
4874.00	46.74	-7.79	38.95	54.00	15.05	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	60.33	-7.75	52.58	74.00	21.42	Vertical
4904.00	55.70	-7.75	47.95	74.00	26.05	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	56.04	-7.75	48.29	54.00	5.71	Vertical
4904.00	46.84	-7.75	39.09	54.00	14.91	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.						

ANTB-1:

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	63.92	-7.74	56.18	74.00	17.82	Vertical
4824.00	61.08	-7.74	53.34	74.00	20.66	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.19	-7.74	48.45	54.00	5.55	Vertical
4824.00	52.14	-7.74	44.40	54.00	9.60	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	64.32	-7.79	56.53	74.00	17.47	Vertical
4874.00	60.66	-7.79	52.87	74.00	21.13	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.56	-7.79	48.77	54.00	5.23	Vertical
4874.00	51.70	-7.79	43.91	54.00	10.09	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	64.26	-7.78	56.48	74.00	17.52	Vertical
4924.00	60.42	-7.78	52.64	74.00	21.36	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.21	-7.78	48.43	54.00	5.57	Vertical
4924.00	51.54	-7.78	43.76	54.00	10.24	Horizontal
Remark: 5. Level = Reading + Factor. 6. 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	64.10	-7.74	56.36	74.00	17.64	Vertical
4824.00	60.62	-7.74	52.88	74.00	21.12	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.63	-7.74	48.89	54.00	5.11	Vertical
4824.00	51.77	-7.74	44.03	54.00	9.97	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	64.37	-7.79	56.58	74.00	17.42	Vertical
4874.00	60.78	-7.79	52.99	74.00	21.01	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.58	-7.79	48.79	54.00	5.21	Vertical
4874.00	51.99	-7.79	44.20	54.00	9.80	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	64.56	-7.78	56.78	74.00	17.22	Vertical
4924.00	60.90	-7.78	53.12	74.00	20.88	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.74	-7.78	48.96	54.00	5.04	Vertical
4924.00	51.89	-7.78	44.11	54.00	9.89	Horizontal
Remark: 5. Level = Reading + Factor. 6. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

ANTB-2:

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	65.18	-7.74	57.44	74.00	16.56	Vertical
4824.00	61.72	-7.74	53.98	74.00	20.02	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	58.27	-7.74	50.53	54.00	3.47	Vertical
4824.00	51.09	-7.74	43.35	54.00	10.65	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	64.71	-7.79	56.92	74.00	17.08	Vertical
4874.00	62.04	-7.79	54.25	74.00	19.75	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	57.82	-7.79	50.03	54.00	3.97	Vertical
4874.00	51.54	-7.79	43.75	54.00	10.25	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	65.01	-7.78	57.23	74.00	16.77	Vertical
4924.00	61.55	-7.78	53.77	74.00	20.23	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	57.80	-7.78	50.02	54.00	3.98	Vertical
4924.00	52.00	-7.78	44.22	54.00	9.78	Horizontal
Remark: 7. Level = Reading + Factor. 8. 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	65.03	-7.74	57.29	74.00	16.71	Vertical
4824.00	60.92	-7.74	53.18	74.00	20.82	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	56.58	-7.74	48.84	54.00	5.16	Vertical
4824.00	52.19	-7.74	44.45	54.00	9.55	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	64.73	-7.79	56.94	74.00	17.06	Vertical
4874.00	61.34	-7.79	53.55	74.00	20.45	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	56.77	-7.79	48.98	54.00	5.02	Vertical
4874.00	52.06	-7.79	44.27	54.00	9.73	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	64.55	-7.78	56.77	74.00	17.23	Vertical
4924.00	60.97	-7.78	53.19	74.00	20.81	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	56.70	-7.78	48.92	54.00	5.08	Vertical
4924.00	52.45	-7.78	44.67	54.00	9.33	Horizontal
Remark: 7. Level = Reading + Factor. 8. 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 MIMO						
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	60.78	-7.74	53.04	74.00	20.96	Vertical
4824.00	56.22	-7.74	48.48	74.00	25.52	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4824.00	54.18	-7.74	46.44	54.00	7.56	Vertical
4824.00	46.88	-7.74	39.14	54.00	14.86	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	60.92	-7.79	53.13	74.00	20.87	Vertical
4874.00	55.97	-7.79	48.18	74.00	25.82	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	54.64	-7.79	46.85	54.00	7.15	Vertical
4874.00	46.61	-7.79	38.82	54.00	15.18	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	60.89	-7.78	53.11	74.00	20.89	Vertical
4924.00	55.63	-7.78	47.85	74.00	26.15	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4924.00	55.07	-7.78	47.29	54.00	6.71	Vertical
4924.00	46.81	-7.78	39.03	54.00	14.97	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-HT40 MIMO						
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	60.34	-7.79	52.55	74.00	21.45	Vertical
4844.00	55.22	-7.79	47.43	74.00	26.57	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4844.00	56.07	-7.79	48.28	54.00	5.72	Vertical
4844.00	47.26	-7.79	39.47	54.00	14.53	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	60.22	-7.79	52.43	74.00	21.57	Vertical
4874.00	55.60	-7.79	47.81	74.00	26.19	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4874.00	55.96	-7.79	48.17	54.00	5.83	Vertical
4874.00	47.27	-7.79	39.48	54.00	14.52	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	60.52	-7.75	52.77	74.00	21.23	Vertical
4904.00	55.81	-7.75	48.06	74.00	25.94	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4904.00	55.75	-7.75	48.00	54.00	6.00	Vertical
4904.00	46.90	-7.75	39.15	54.00	14.85	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.						

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