



FCC RF Test Report

(BLE)

Report No.: JYTSZ-R12-2301581

Applicant: Voxx Electronics Corporation

Address of Applicant: 2365 Pontiac Road, Auburn Hills, Michigan 48326 - USA

Equipment Under Test (EUT)

Product Name: AW18

Model No.: 2421Y

Trade Mark: N/A

FCC ID: EZS2421Y

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

Date of Sample Receipt: 16 Nov., 2023

Date of Test: 17 Nov., to 30 Nov., 2023

Date of Report Issued: 30 Nov., 2023

Test Result: PASS

Project by: Linus Ding **Date:** 30 Nov., 2023

Reviewed by: Detong Zhang **Date:** 30 Nov., 2023

Approved by: James Wei **Date:** 30 Nov., 2023

Manager

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

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

1 Version

Version No.	Date	Description
00	30 Nov., 2023	Original

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3 General Information

3.1 Client Information

Applicant:	Voxx Electronics Corporation
Address:	2365 Pontiac Road, Auburn Hills, Michigan 48326 - USA
Manufacturer:	Nutek Coropration
Address:	no. 167, Lane 235, Bauchiau Rd, Xindian District, New Taeipi City 23145, Taiwan
Factory:	Voxx Automotive Corporation
Address:	2351 J. Lawson Blvd, Orlando, FL 32824 - USA

3.2 General Description of E.U.T.

Product Name:	AW18
Model No.:	2421Y
Operation Frequency:	2402 MHz - 2480 MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Technology:	GFSK
Data Speed:	1 Mbps (LE 1M PHY), 2 Mbps (LE 2M PHY), 125 kbps (LE Coded PHY, S=8), 500 kbps (LE Coded PHY, S=2)
Antenna Type:	Inverted-F Antenna
Antenna Gain:	1.443dBi (declare by applicant)
Antenna transmit mode:	SISO (1TX, 1RX)
Power Supply:	LITHIUM Battery DC 3V (CR2450)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Test Environment

Test Mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
Remark: 1. For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan all data speed, found 1 Mbps (LE 1M PHY) was worse case mode. The report only reflects the test data of worst mode. 2. 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℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.00Vdc, Extreme: Low 2.55Vdc, High 3.3Vdc
Test Engineer:	Logan Li(Conducted measurement) Kiran Zeng(Radiated measurement)

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
Keysight	DC power supply	E3642A	MY60296194	DoC

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Radiated Emission (30MHz ~ 200MHz) (10m SAC)	4.3 dB
Radiated Emission (200MHz ~ 1000MHz) (10m SAC)	4.3 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

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
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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 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 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	11-01-2023	10-31-2024
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
Power Detector Box	MWRFTEST	MW100-PSB	WXJ007-4	09-25-2023	09-24-2024
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
RF Control Unit	MWRFTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

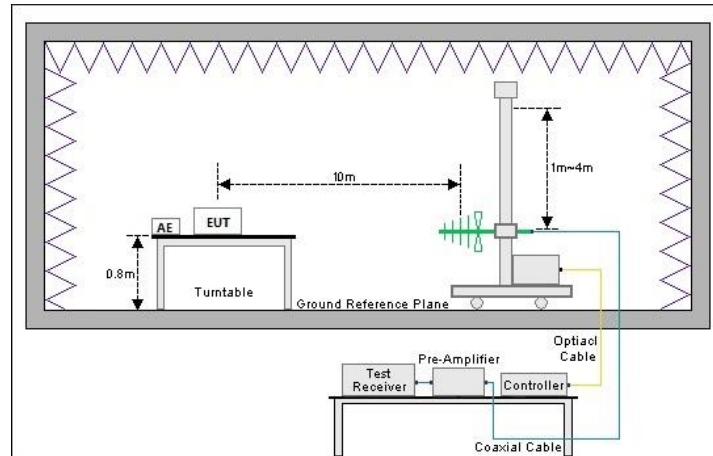
According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	20	2442	39	2480

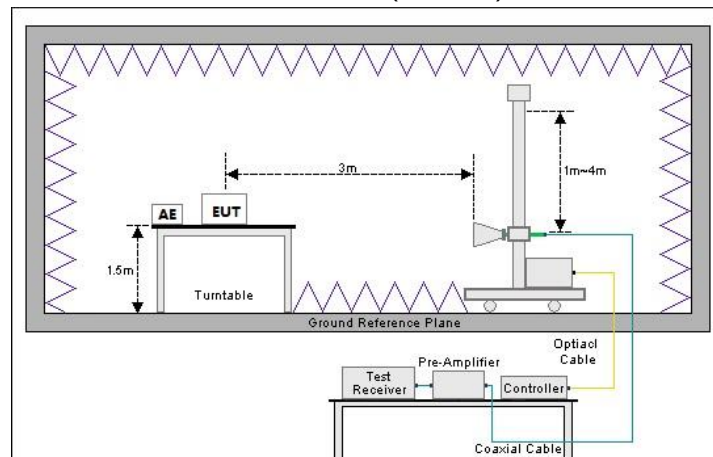
4.2 Test Setup

1) Radiated emission measurement:

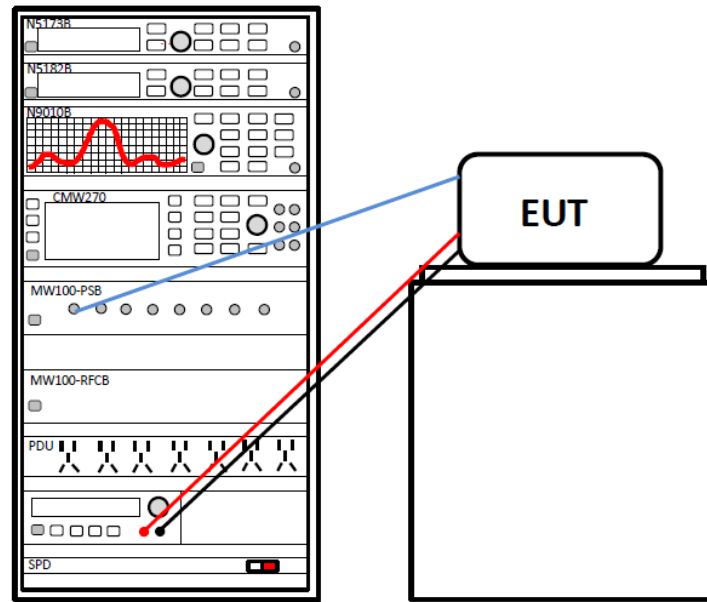
Below 1GHz (10m SAC)



Above 1GHz (3m FAR)



2) Conducted test method



4.3 Test Procedure

Test method	Test step
Radiated emission	For below 1GHz: - 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. - 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. - 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: - 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. - 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. - 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	- The BLE antenna port of EUT was connected to the test port of the test system through an RF cable. - The EUT is keeping in continuous transmission mode and tested in all modulation modes. - 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	N/A	N/A
Conducted Output Power	15.247 (b)(3)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
Power Spectral Density	15.247 (e)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix A – BLE 1M PHY Appendix B – BLE 2M PHY Appendix C – BLE Coded PHY, S=2 Appendix D – BLE Coded PHY, S=8	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 5.3	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 5.4	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

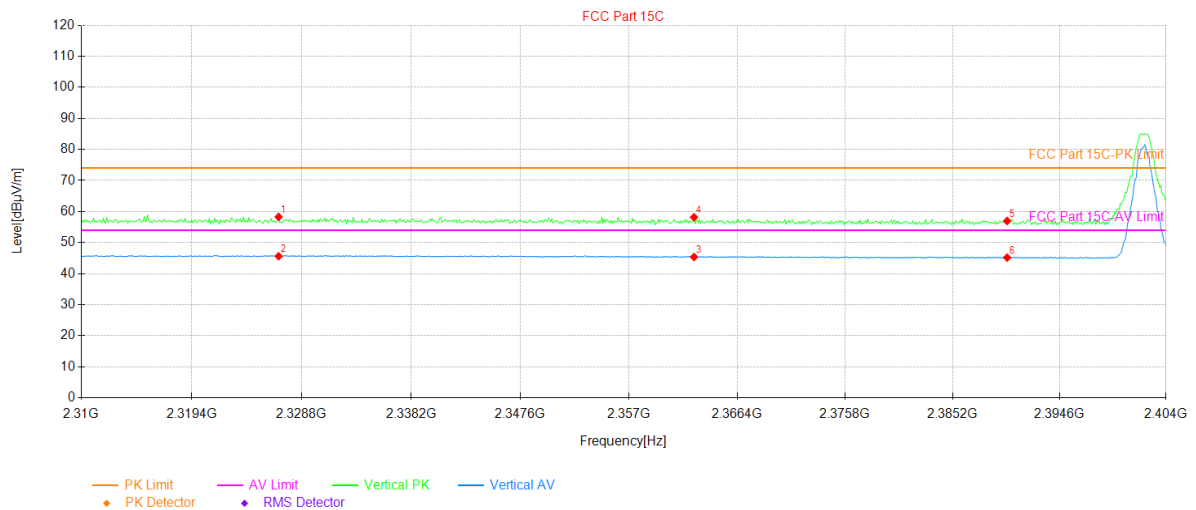
Test items	Limit																														
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
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 /247(b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
E.U.T Antenna:	
The BLE antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.443 dBi. See product internal photos for details.	

5.3 Emissions in Restricted Frequency Bands

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

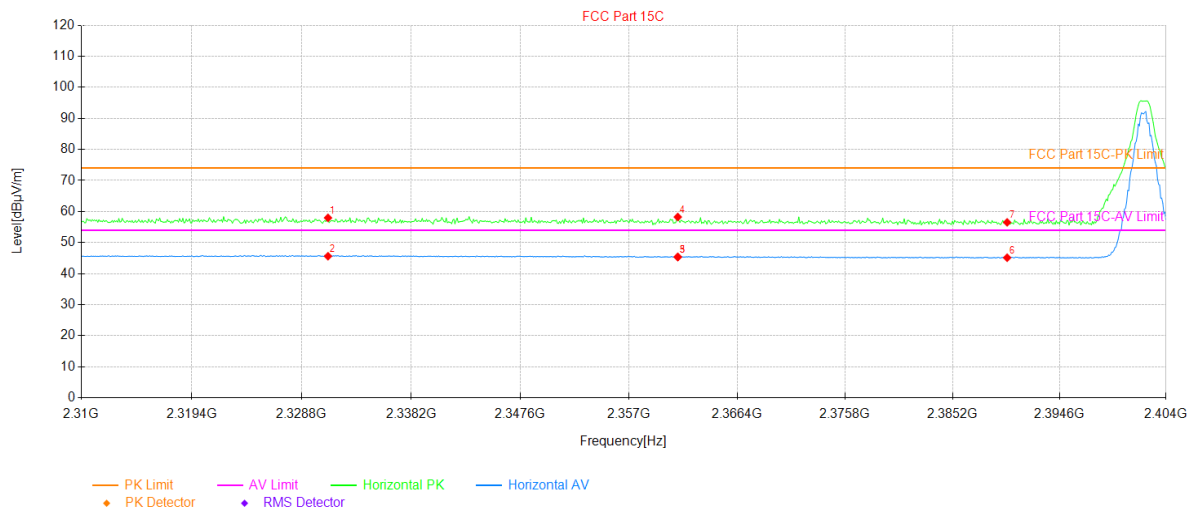


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2326.83	24.09	34.19	58.28	74.00	15.72	102	PK	PASS	Vertical
2	2326.83	11.42	34.19	45.61	54.00	8.39	144	AV	PASS	Vertical
3	2362.64	11.17	34.19	45.36	54.00	8.64	79	AV	PASS	Vertical
4	2362.64	23.96	34.19	58.15	74.00	15.85	155	PK	PASS	Vertical
5	2390.00	22.84	34.13	56.97	74.00	17.03	271	PK	PASS	Vertical
6	2390.00	11.04	34.13	45.17	54.00	8.83	286	AV	PASS	Vertical

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

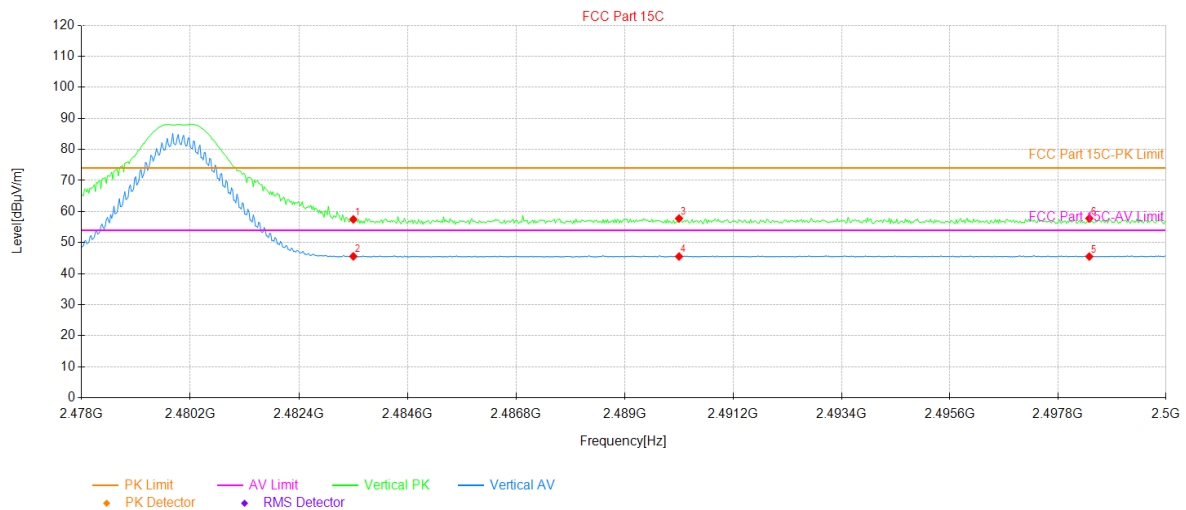


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2331.06	23.75	34.22	57.97	74.00	16.03	188	PK	PASS	Horizontal
2	2331.06	11.40	34.22	45.62	54.00	8.38	14	AV	PASS	Horizontal
3	2361.23	11.18	34.19	45.37	54.00	8.63	330	AV	PASS	Horizontal
4	2361.23	24.06	34.19	58.25	74.00	15.75	358	PK	PASS	Horizontal
5	2361.23	11.18	34.19	45.37	54.00	8.63	330	AV	PASS	Horizontal
6	2390.00	11.01	34.13	45.14	54.00	8.86	33	AV	PASS	Horizontal
7	2390.00	22.39	34.13	56.52	74.00	17.48	203	PK	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

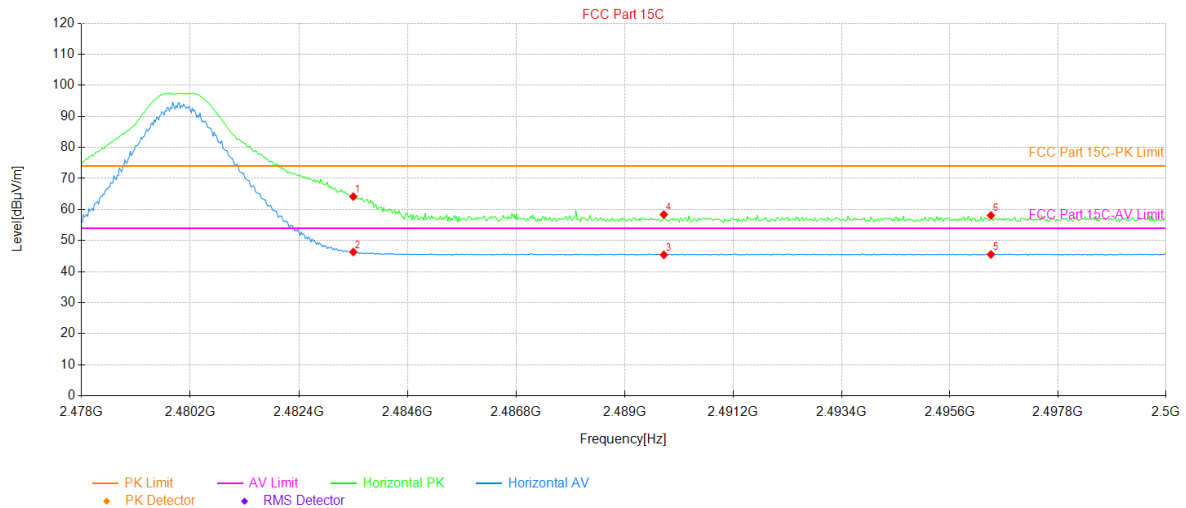


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.96	34.51	57.47	74.00	16.53	355	PK	PASS	Vertical
2	2483.50	11.07	34.51	45.58	54.00	8.42	127	AV	PASS	Vertical
3	2490.10	23.25	34.52	57.77	74.00	16.23	348	PK	PASS	Vertical
4	2490.10	11.01	34.52	45.53	54.00	8.47	359	AV	PASS	Vertical
5	2498.44	10.98	34.53	45.51	54.00	8.49	138	AV	PASS	Vertical
6	2498.44	23.26	34.53	57.79	74.00	16.21	173	PK	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 1M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

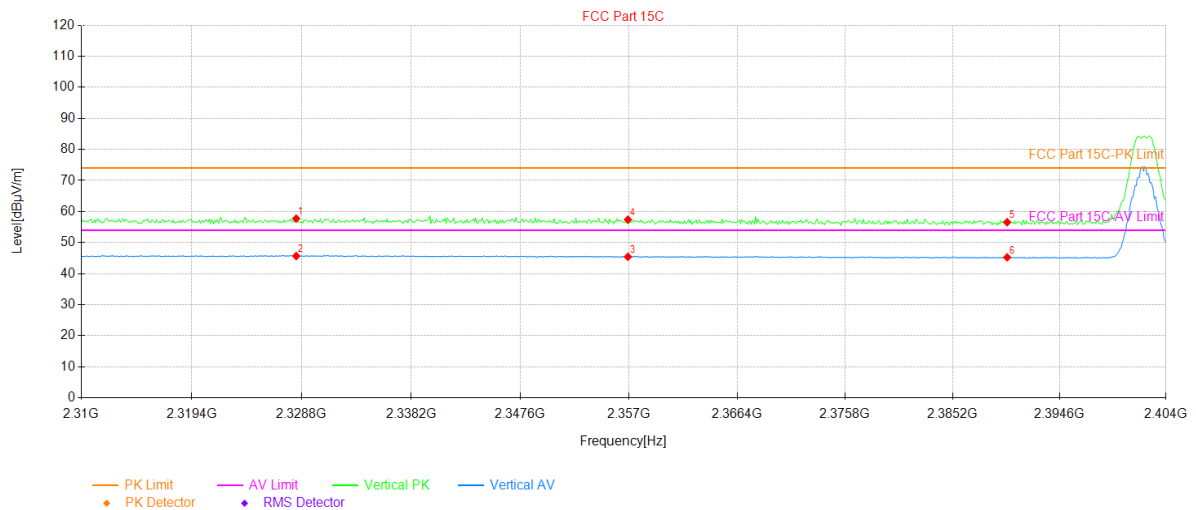


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	29.66	34.51	64.17	74.00	9.83	157	PK	PASS	Horizontal
2	2483.50	11.81	34.51	46.32	54.00	7.68	190	AV	PASS	Horizontal
3	2489.79	10.90	34.52	45.42	54.00	8.58	291	AV	PASS	Horizontal
4	2489.79	23.86	34.52	58.38	74.00	15.62	352	PK	PASS	Horizontal
5	2496.44	11.02	34.52	45.54	54.00	8.46	38	AV	PASS	Horizontal
6	2496.44	23.58	34.52	58.10	74.00	15.90	67	PK	PASS	Horizontal

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

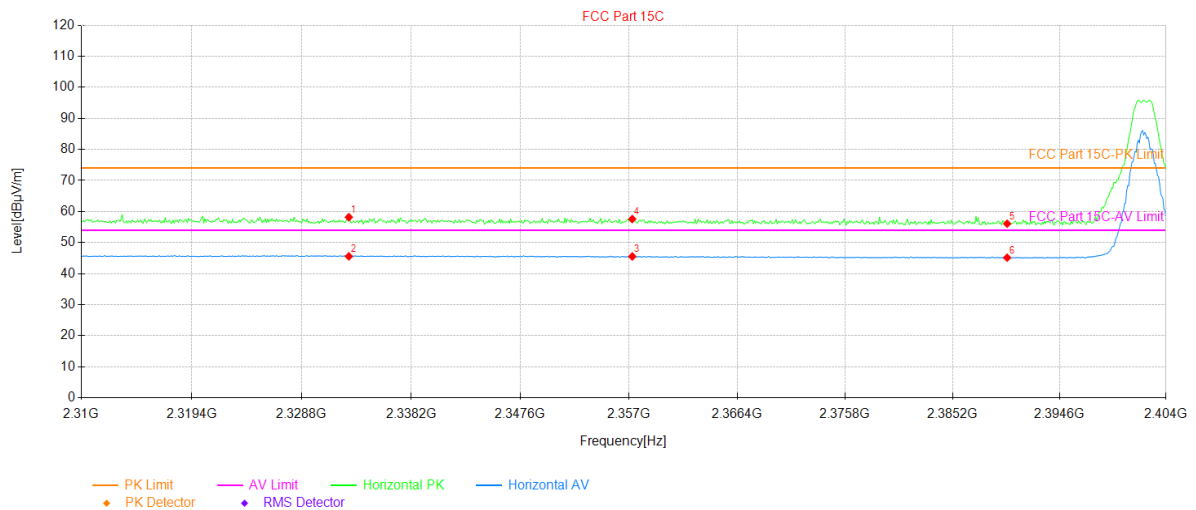


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2328.33	23.52	34.20	57.72	74.00	16.28	154	PK	PASS	Vertical
2	2328.33	11.47	34.20	45.67	54.00	8.33	284	AV	PASS	Vertical
3	2356.91	11.23	34.20	45.43	54.00	8.57	79	AV	PASS	Vertical
4	2356.91	23.20	34.20	57.40	74.00	16.60	75	PK	PASS	Vertical
5	2390.00	22.45	34.13	56.58	74.00	17.42	158	PK	PASS	Vertical
6	2390.00	11.12	34.13	45.25	54.00	8.75	146	AV	PASS	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

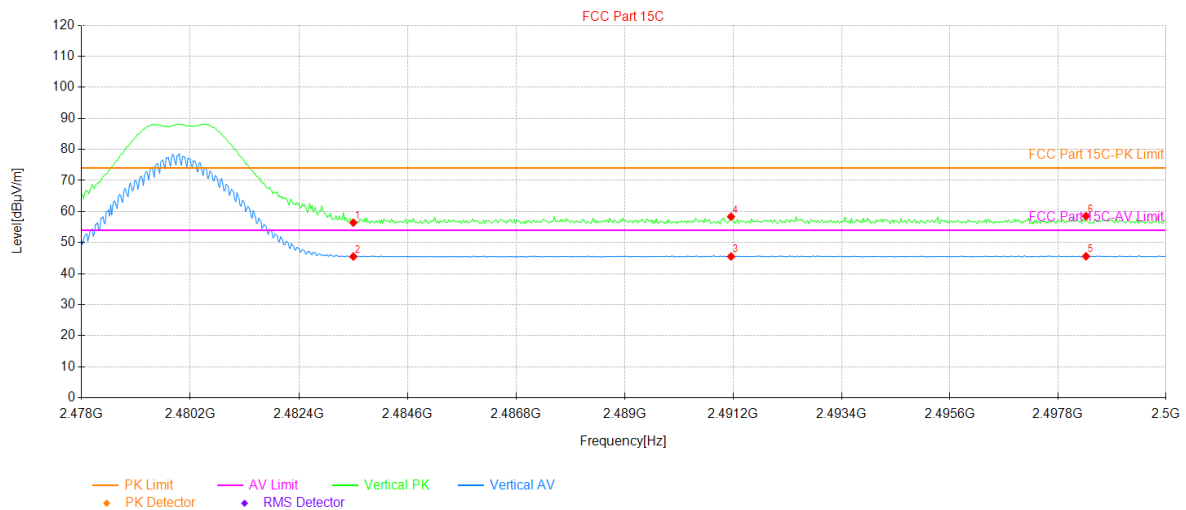


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2332.84	23.96	34.22	58.18	74.00	15.82	298	PK	PASS	Horizontal
2	2332.84	11.35	34.22	45.57	54.00	8.43	63	AV	PASS	Horizontal
3	2357.28	11.34	34.20	45.54	54.00	8.46	96	AV	PASS	Horizontal
4	2357.28	23.38	34.20	57.58	74.00	16.42	190	PK	PASS	Horizontal
5	2390.00	21.96	34.13	56.09	74.00	17.91	89	PK	PASS	Horizontal
6	2390.00	11.03	34.13	45.16	54.00	8.84	59	AV	PASS	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Pre-amplifier Factor).

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

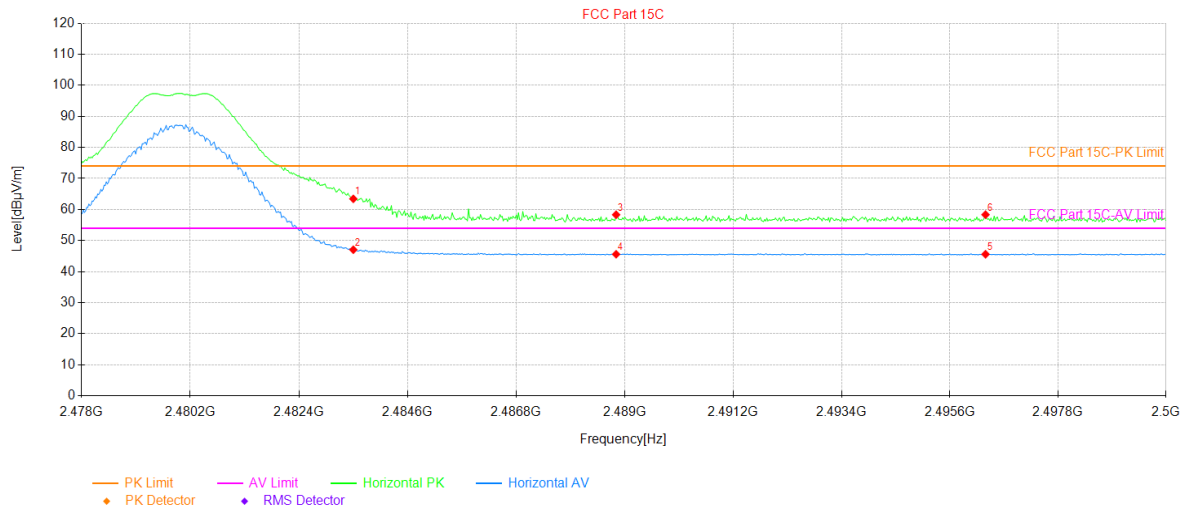


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.91	34.51	56.42	74.00	17.58	320	PK	PASS	Vertical
2	2483.50	10.99	34.51	45.50	54.00	8.50	114	AV	PASS	Vertical
3	2491.16	11.01	34.52	45.53	54.00	8.47	248	AV	PASS	Vertical
4	2491.16	23.83	34.52	58.35	74.00	15.65	121	PK	PASS	Vertical
5	2498.37	11.06	34.53	45.59	54.00	8.41	192	AV	PASS	Vertical
6	2498.37	24.00	34.53	58.53	74.00	15.47	327	PK	PASS	Vertical

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 2M PHY)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

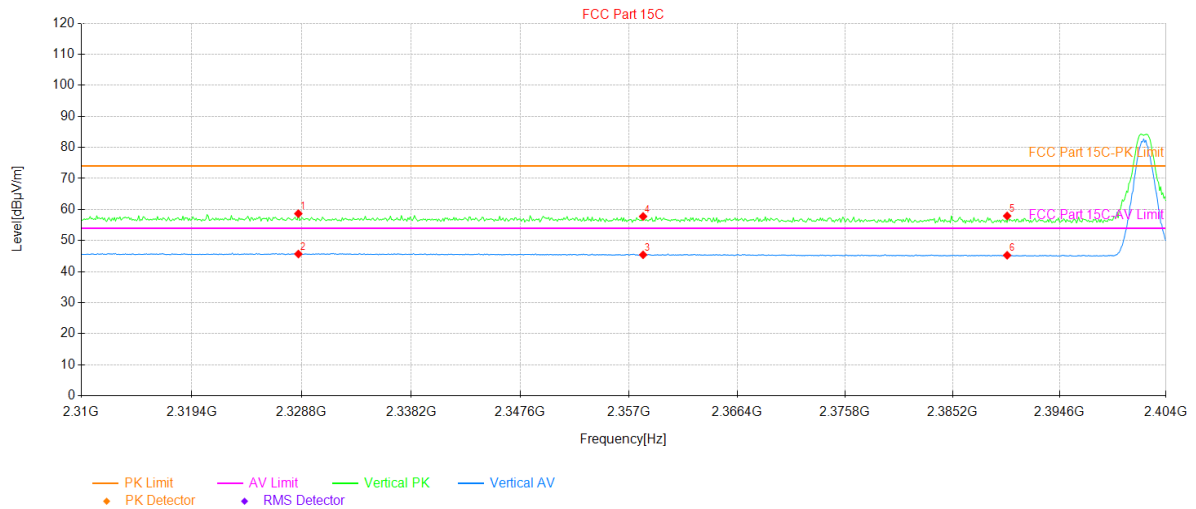


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	28.94	34.51	63.45	74.00	10.55	151	PK	PASS	Horizontal
2	2483.50	12.55	34.51	47.06	54.00	6.94	143	AV	PASS	Horizontal
3	2488.82	23.82	34.51	58.33	74.00	15.67	184	PK	PASS	Horizontal
4	2488.82	11.10	34.51	45.61	54.00	8.39	176	AV	PASS	Horizontal
5	2496.33	11.09	34.52	45.61	54.00	8.39	233	AV	PASS	Horizontal
6	2496.33	23.82	34.52	58.34	74.00	15.66	334	PK	PASS	Horizontal

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

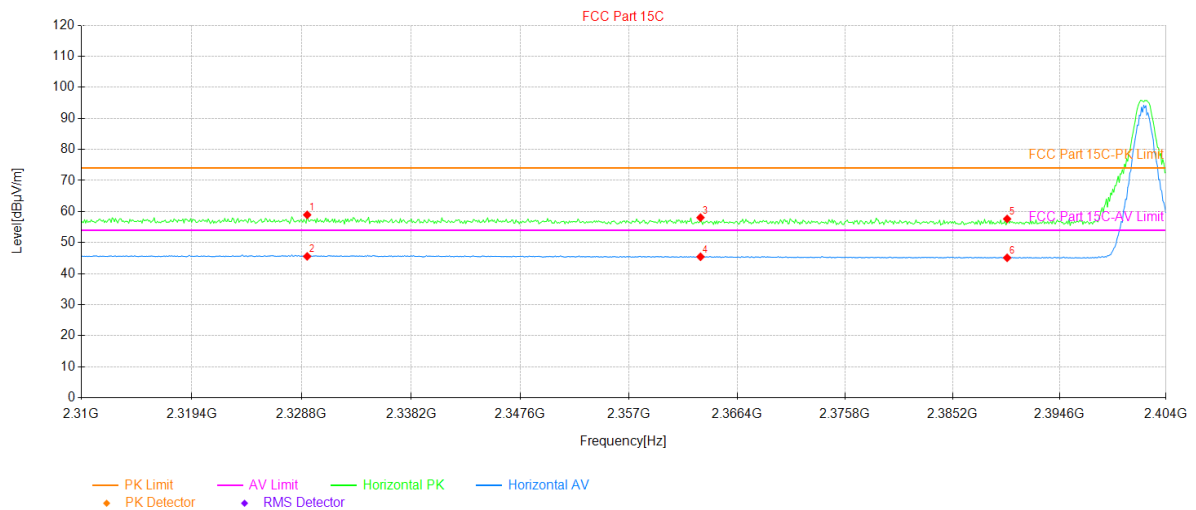


Suspected Data List											
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity	
1	2328.52	24.48	34.20	58.68	74.00	15.32	68	PK	PASS	Vertical	
2	2328.52	11.48	34.20	45.68	54.00	8.32	30	AV	PASS	Vertical	
3	2358.22	11.23	34.20	45.43	54.00	8.57	237	AV	PASS	Vertical	
4	2358.22	23.58	34.20	57.78	74.00	16.22	309	PK	PASS	Vertical	
5	2390.00	23.81	34.13	57.94	74.00	16.06	49	PK	PASS	Vertical	
6	2390.00	11.14	34.13	45.27	54.00	8.73	132	AV	PASS	Vertical	

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

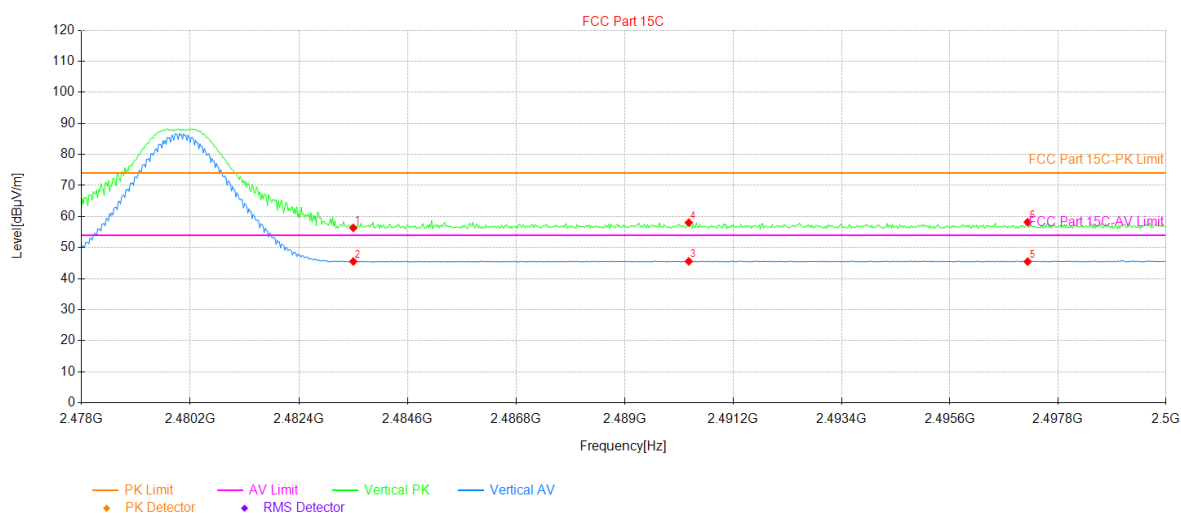


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2329.27	24.72	34.21	58.93	74.00	15.07	222	PK	PASS	Horizontal
2	2329.27	11.36	34.21	45.57	54.00	8.43	358	AV	PASS	Horizontal
3	2363.20	23.86	34.19	58.05	74.00	15.95	272	PK	PASS	Horizontal
4	2363.20	11.25	34.19	45.44	54.00	8.56	84	AV	PASS	Horizontal
5	2390.00	23.50	34.13	57.63	74.00	16.37	178	PK	PASS	Horizontal
6	2390.00	10.97	34.13	45.10	54.00	8.90	102	AV	PASS	Horizontal

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

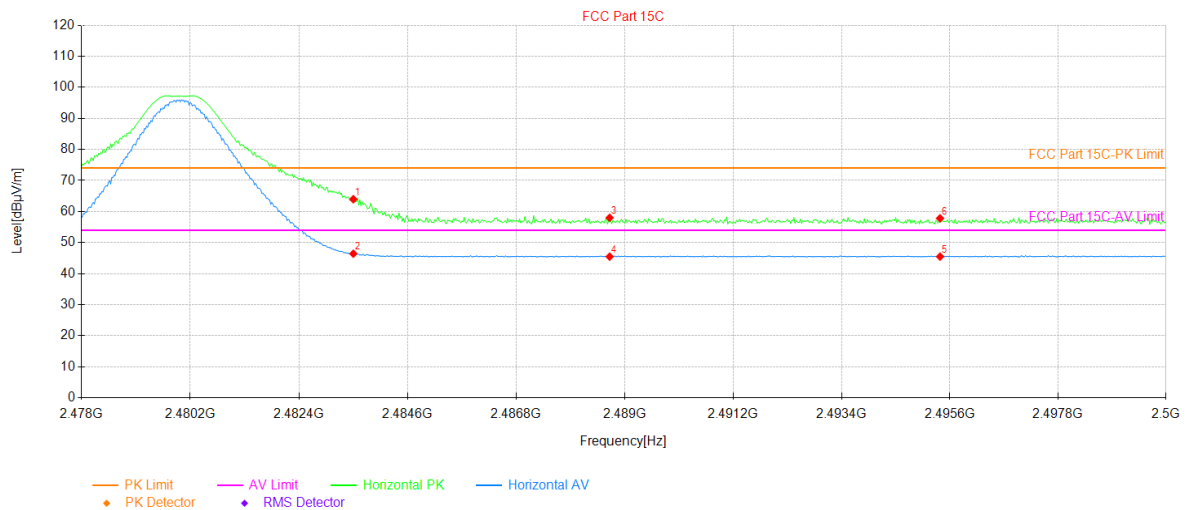


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	21.85	34.51	56.36	74.00	17.64	2	PK	PASS	Vertical
2	2483.50	11.01	34.51	45.52	54.00	8.48	336	AV	PASS	Vertical
3	2490.30	11.04	34.52	45.56	54.00	8.44	127	AV	PASS	Vertical
4	2490.30	23.51	34.52	58.03	74.00	15.97	170	PK	PASS	Vertical
5	2497.18	10.98	34.52	45.50	54.00	8.50	8	AV	PASS	Vertical
6	2497.18	23.67	34.52	58.19	74.00	15.81	56	PK	PASS	Vertical

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=2)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

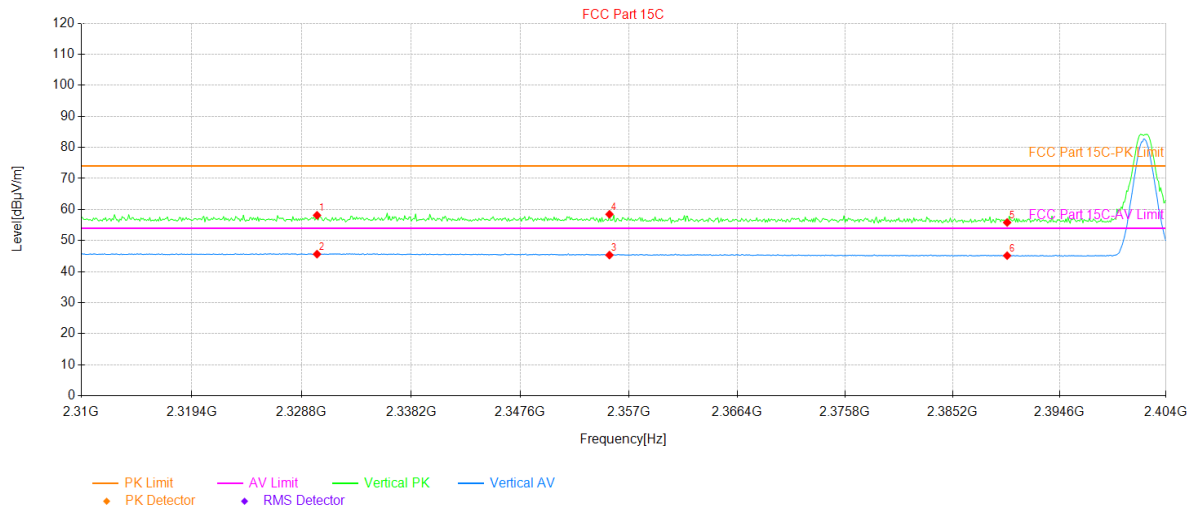


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	29.45	34.51	63.96	74.00	10.04	196	PK	PASS	Horizontal
2	2483.50	11.92	34.51	46.43	54.00	7.57	155	AV	PASS	Horizontal
3	2488.69	23.48	34.51	57.99	74.00	16.01	334	PK	PASS	Horizontal
4	2488.69	10.97	34.51	45.48	54.00	8.52	278	AV	PASS	Horizontal
5	2495.40	10.98	34.52	45.50	54.00	8.50	196	AV	PASS	Horizontal
6	2495.40	23.29	34.52	57.81	74.00	16.19	155	PK	PASS	Horizontal

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

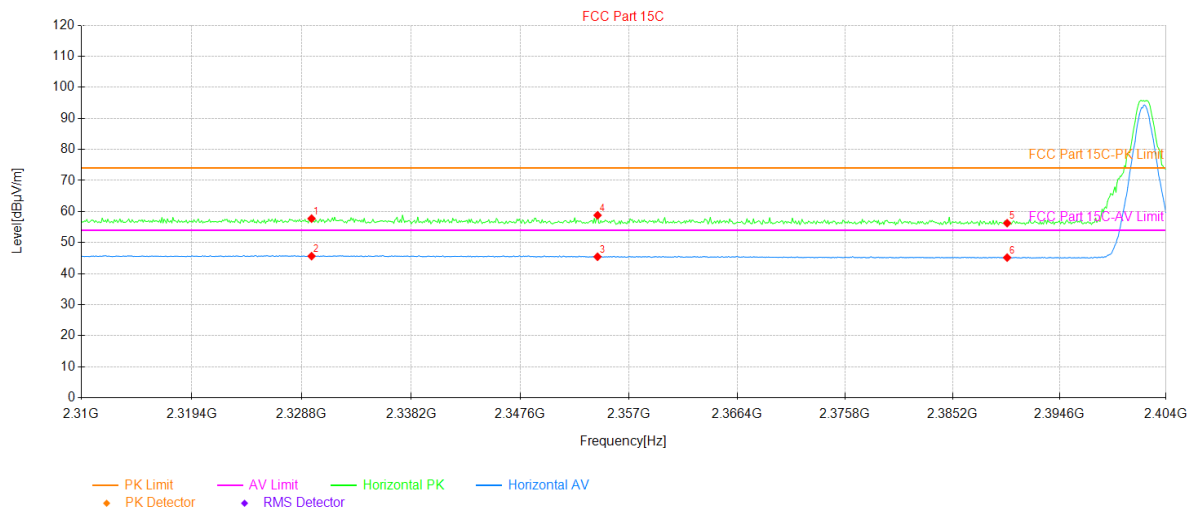


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2330.12	23.93	34.22	58.15	74.00	15.85	325	PK	PASS	Vertical
2	2330.12	11.42	34.22	45.64	54.00	8.36	218	AV	PASS	Vertical
3	2355.31	11.13	34.21	45.34	54.00	8.66	94	AV	PASS	Vertical
4	2355.31	24.26	34.21	58.47	74.00	15.53	150	PK	PASS	Vertical
5	2390.00	21.70	34.13	55.83	74.00	18.17	255	PK	PASS	Vertical
6	2390.00	11.02	34.13	45.15	54.00	8.85	15	AV	PASS	Vertical

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		

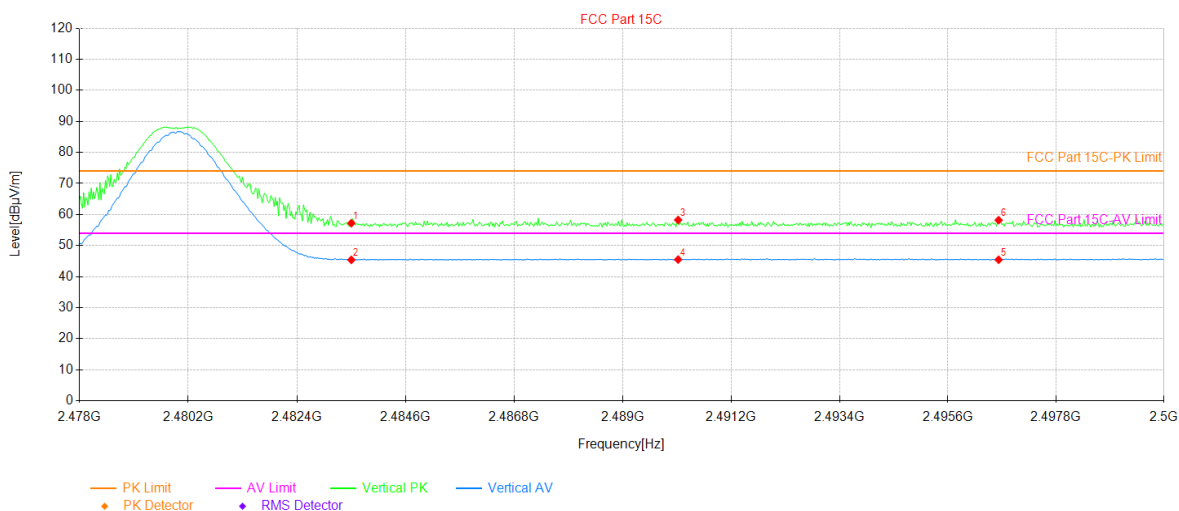


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2329.65	23.51	34.22	57.73	74.00	16.27	285	PK	PASS	Horizontal
2	2329.65	11.42	34.22	45.64	54.00	8.36	267	AV	PASS	Horizontal
3	2354.27	11.23	34.21	45.44	54.00	8.56	136	AV	PASS	Horizontal
4	2354.27	24.59	34.21	58.80	74.00	15.20	181	PK	PASS	Horizontal
5	2390.00	22.13	34.13	56.26	74.00	17.74	51	PK	PASS	Horizontal
6	2390.00	11.04	34.13	45.17	54.00	8.83	274	AV	PASS	Horizontal

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 3.0V		

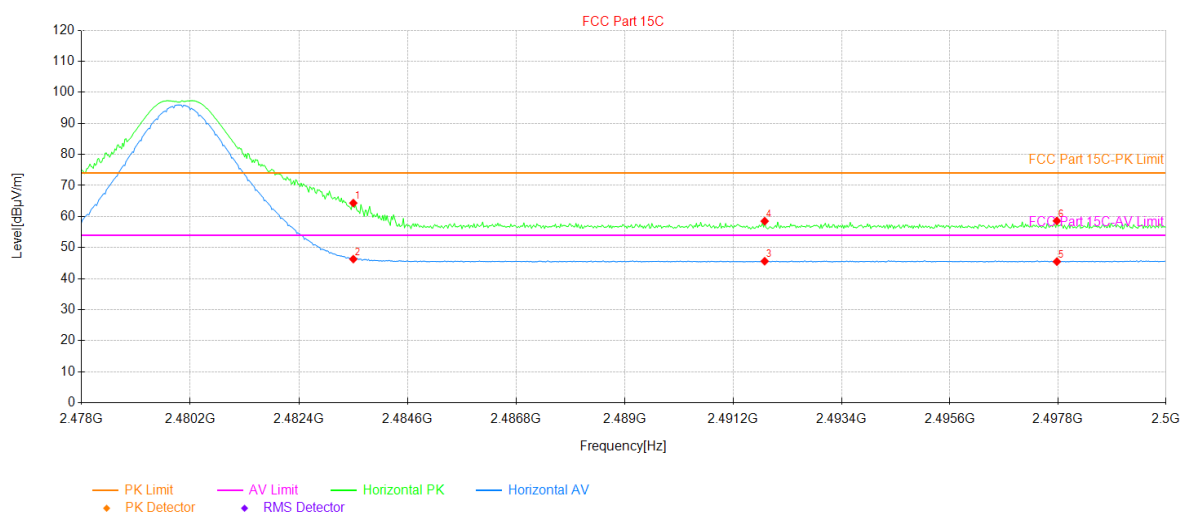


Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	22.69	34.51	57.20	74.00	16.80	322	PK	PASS	Vertical
2	2483.50	10.89	34.51	45.40	54.00	8.60	49	AV	PASS	Vertical
3	2490.12	23.73	34.52	58.25	74.00	15.75	38	PK	PASS	Vertical
4	2490.12	11.00	34.52	45.52	54.00	8.48	161	AV	PASS	Vertical
5	2496.63	10.93	34.52	45.45	54.00	8.55	341	AV	PASS	Vertical
6	2496.63	23.67	34.52	58.19	74.00	15.81	97	PK	PASS	Vertical

Remark:

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

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE Coded PHY, S=8)
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 3.0V		



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Verdict	Polarity
1	2483.50	29.84	34.51	64.35	74.00	9.65	192	PK	PASS	Horizontal
2	2483.50	11.79	34.51	46.30	54.00	7.70	159	AV	PASS	Horizontal
3	2491.84	11.09	34.52	45.61	54.00	8.39	95	AV	PASS	Horizontal
4	2491.84	23.99	34.52	58.51	74.00	15.49	125	PK	PASS	Horizontal
5	2497.78	10.96	34.53	45.49	54.00	8.51	83	AV	PASS	Horizontal
6	2497.78	24.07	34.53	58.60	74.00	15.40	140	PK	PASS	Horizontal

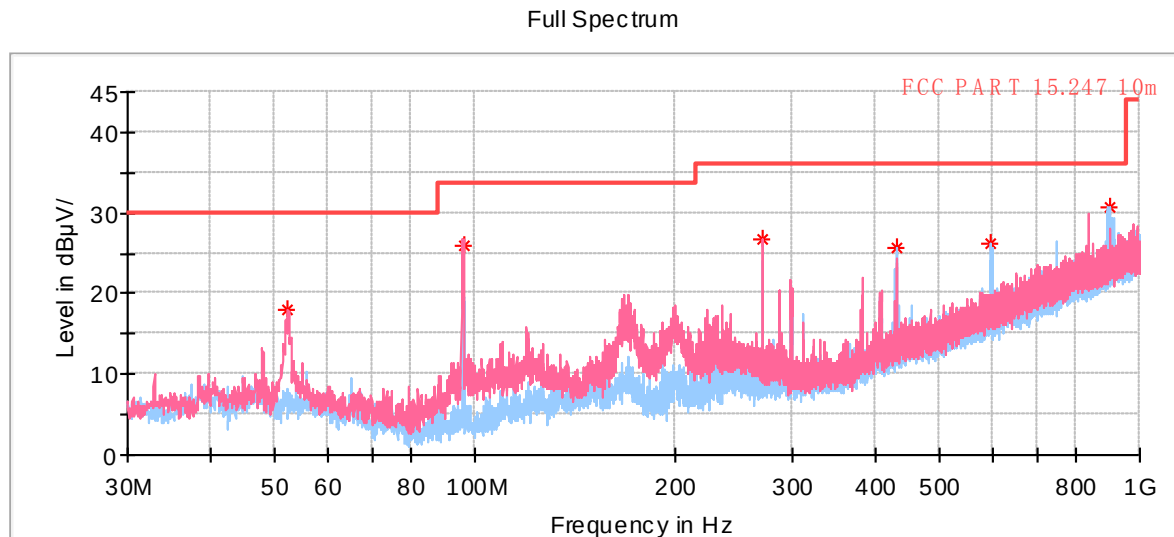
Remark:

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

5.4 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	AW18	Product Model:	2421Y
Test By:	Kiran	Test mode:	BLE Tx (LE 1M PHY)
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	DC 3.0V		



* Critical_Freqs PK+ — FCC PART 15.247 10m ◆ Final_Result QPK
— Preview Result 1H-PK+ — Preview Result 1V-PK+

Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
52.358500	18.10	30.00	11.90	100.0	V	179.0	-16.4	16:10:37 - 2023/11/23
96.008500	25.92	33.50	7.58	100.0	V	98.0	-19.5	16:10:39 - 2023/11/23
269.978000	26.76	36.00	9.24	100.0	V	40.0	-16.2	16:10:42 - 2023/11/23
431.095000	25.67	36.00	10.33	100.0	H	32.0	-11.0	16:10:43 - 2023/11/23
597.741000	26.18	36.00	9.82	100.0	H	58.0	-7.2	16:10:48 - 2023/11/23
899.508000	30.74	36.00	5.26	100.0	H	197.0	-1.4	16:10:46 - 2023/11/23

Remark:

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

Above 1GHz:

BLE Tx (LE 1M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	55.91	-7.66	48.25	74.00	25.75	Vertical
4804.00	56.86	-7.66	49.20	74.00	24.80	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	47.34	-7.66	39.68	54.00	14.32	Vertical
4804.00	49.01	-7.66	41.35	54.00	12.65	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	56.07	-7.77	48.30	74.00	25.70	Vertical
4884.00	56.96	-7.77	49.19	74.00	24.81	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	47.68	-7.77	39.91	54.00	14.09	Vertical
4884.00	48.76	-7.77	40.99	54.00	13.01	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	56.35	-7.82	48.53	74.00	25.47	Vertical
4960.00	57.17	-7.82	49.35	74.00	24.65	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	48.04	-7.82	40.22	54.00	13.78	Vertical
4960.00	49.11	-7.82	41.29	54.00	12.71	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.						

BLE Tx (LE 2M PHY)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	56.01	-7.66	48.35	74.00	25.65	Vertical
4804.00	57.39	-7.66	49.73	74.00	24.27	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	48.48	-7.66	40.82	54.00	13.18	Vertical
4804.00	49.07	-7.66	41.41	54.00	12.59	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	55.94	-7.77	48.17	74.00	25.83	Vertical
4884.00	57.50	-7.77	49.73	74.00	24.27	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	48.92	-7.77	41.15	54.00	12.85	Vertical
4884.00	48.63	-7.77	40.86	54.00	13.14	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	55.84	-7.82	48.02	74.00	25.98	Vertical
4960.00	57.96	-7.82	50.14	74.00	23.86	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	48.66	-7.82	40.84	54.00	13.16	Vertical
4960.00	48.56	-7.82	40.74	54.00	13.26	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.						

BEL Tx (LE Coded PHY, S=2)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	55.85	-7.66	48.19	74.00	25.81	Vertical
4804.00	57.22	-7.66	49.56	74.00	24.44	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	48.55	-7.66	40.89	54.00	13.11	Vertical
4804.00	48.87	-7.66	41.21	54.00	12.79	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	55.90	-7.77	48.13	74.00	25.87	Vertical
4884.00	57.70	-7.77	49.93	74.00	24.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	49.02	-7.77	41.25	54.00	12.75	Vertical
4884.00	48.61	-7.77	40.84	54.00	13.16	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	55.51	-7.82	47.69	74.00	26.31	Vertical
4960.00	57.40	-7.82	49.58	74.00	24.42	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	49.44	-7.82	41.62	54.00	12.38	Vertical
4960.00	48.13	-7.82	40.31	54.00	13.69	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.						

BEL Tx (LE Coded PHY, S=8)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	55.35	-7.66	47.69	74.00	26.31	Vertical
4804.00	57.88	-7.66	50.22	74.00	23.78	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4804.00	49.42	-7.66	41.76	54.00	12.24	Vertical
4804.00	47.50	-7.66	39.84	54.00	14.16	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	55.25	-7.77	47.48	74.00	26.52	Vertical
4884.00	57.80	-7.77	50.03	74.00	23.97	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4884.00	49.74	-7.77	41.97	54.00	12.03	Vertical
4884.00	47.27	-7.77	39.50	54.00	14.50	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	55.37	-7.82	47.55	74.00	26.45	Vertical
4960.00	57.68	-7.82	49.86	74.00	24.14	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4960.00	48.94	-7.82	41.12	54.00	12.88	Vertical
4960.00	47.74	-7.82	39.92	54.00	14.08	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

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