



Test report No. : 4790055266-US-R0-V0
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Issued date : 2021/8/18
FCC ID : 2APLE18300421

RADIO TEST REPORT

(Spot Check)

Product : Arlo Go 2 Wireless Security Camera

Model Name : VML2030

FCC ID : 2APLE18300421

Reused FCC ID : 2APLE18300416

Test Regulation : FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : 2021/8/3

Test Date : 2021/8/9 ~ 2021/8/12

Issued Date : 2021/8/18

Applicant : Arlo Technologies Inc
2200 Faraday Avenue, Suite 150, Carlsbad, CA 92008, USA

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan



The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report are responsible of the test sample(s) provided by the client only and are not to be used to indicate applicability to other similar products.

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Doc No: 17-EM-F0876 / 6.0



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REVISION HISTORY

Original Test Report No.: 4790055266-US-R0-V0

[illegible]

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1. Attestation of Test Results

APPLICANT: Arlo Technologies Inc
2200 Faraday Avenue, Suite 150, Carlsbad, CA 92008, USA

MANUFACTURER: Funing Precision Component Co., Ltd.
Lot B, Que Vo Industrial Zone, Van Duong Ward, Bac Ninh City,
Bac Ninh Province, Vietnam

EUT DESCRIPTION: Arlo Go 2 Wireless Security Camera

BRAND: Arlo

MODEL: VML2030

SAMPLE STAGE: Engineering Verification Test sample

DATE of TESTED: 2021/8/9 ~ 2021/8/12

| APPLICABLE STANDARDS | |
|---|--------------|
| STANDARD | Test Results |
| FCC 47 CFR PART 15 Subpart C (Section 15.247) | PASS |

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Sally Lu
Project Handler

Date : 2021/8/18

Approved and Authorized By:

Mike Cai
Engineer Project Associate

Date : 2021/8/18

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2. Summary of Test Results

| Summary of Test Results | | |
|--------------------------------|---|--------|
| FCC Clause | Test Items | Result |
| 15.247(a)(2) | 6dB Bandwidth | Note 1 |
| 15.247(b) | Conducted Output Power | PASS |
| 15.247(e) | Power Spectral Density | Note 1 |
| 15.247(d) | Antenna Port Emission | Note 1 |
| 15.205 / 15.209 / 15.247(d) | Radiated Emissions and Band Edge Measurement | PASS |
| 15.207 | AC Power Conducted Emission | PASS |
| 15.203 | Antenna Requirement | Note 1 |

Note:

1. This prepared for FCC Spot Check Verification Report, the test items and spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit.
2. For the Radiated Band Edge test plots were recorded in Appendix I, the Radiated Emissions test plots were recorded in Appendix II.

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3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB558074 D01 Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013.

4. Facilities and Accreditation

| | |
|----------------------------------|---|
| Test Location | Underwriters Laboratories Taiwan Co., Ltd. |
| Address | Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan |
| Accreditation Certificate | Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398. The full scope of accreditation can be viewed at http://accreditation.taftw.org.tw/taf/public/basic/viewApplyItems.action?unitNo=3398 |

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5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

| Measurement | Frequency | Uncertainty |
|--|----------------|--------------|
| Conducted disturbance at mains terminals ports | 150kHz ~ 30MHz | ± 3.1 dB |
| RF Conducted | 9 kHz - 40GHz | ± 1.9 dB |
| Radiated disturbance below 30MHz | 9 kHz - 30 MHz | ± 1.9 dB |
| Radiated disturbance below 1 GHz | 30MHz ~ 1GHz | ± 5.4 dB |
| Radiated disturbance above 1 GHz | 1GHz ~ 40GHz | ± 4.7 dB |

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6. Equipment under Test

6.1. Description of EUT

| | |
|-----------------------------|---|
| Product | Arlo Go 2 Wireless Security Camera |
| Brand Name | Arlo |
| Model Name | VML2030 |
| Operating Frequency | 2412MHz ~ 2462MHz |
| Modulation | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Transfer Rate | 802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to MCS7 |
| Number of Channel | 11 for 802.11b, 802.11g, 802.11n (HT20) |
| Maximum Output Power | 802.11b: 23.11 dBm 802.11g: 24.44 dBm 802.11n (HT20): 24.4 dBm |
| Normal Voltage | 3.6Vdc from battery 5Vdc from Host |
| S/N | N/A |
| Sample ID | 4125444 |
| Software Version | N/A |

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Note:

1. This spot check report was issued based on the re-used report with report number 4790055264-US-R0-V0. The WiFi part PCB layout and antenna of EUT is the same as the original device, the only different is the LTE module of EUT. Therefore, only the output power and worst case of the emission was performed and recorded in this report.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

| Modulation Mode | Tx,Rx Function |
|-----------------|----------------|
| 802.11b | 1TX,1RX |
| 802.11g | 1TX,1RX |
| 802.11n (HT20) | 1TX,1RX |

3. The EUT could be supplied with rechargeable battery as the following table:

| Product | Manufacturer / Trademark | Model | Description |
|-----------------------------|--------------------------|-------|---------------|
| Rechargeable Li-ion Battery | Arlo | A-14 | Rating:3.6Vdc |

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

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6.2. Channel List

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 2412 | 7 | 2442 |
| 2 | 2417 | 8 | 2447 |
| 3 | 2422 | 9 | 2452 |
| 4 | 2427 | 10 | 2457 |
| 5 | 2432 | 11 | 2462 |
| 6 | 2437 | - | - |

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6.3. Test Condition

| Test Item | Test Site No. | Environmental Condition | Input Power | Test Date | Tested by |
|------------------------------------|---------------|-------------------------|----------------|---------------------------|------------|
| Antenna Port Conducted Measurement | SR4 | 24~27°C/ 59~66%RH | 120Vac / 60 Hz | 2021/08/09~ 2021/08/12 | Wayne Chen |
| Radiated Spurious Emission | 966-2 | 24~27°C/ 59~66%RH | 120Vac / 60 Hz | 2021/08/09~ 2021/08/12 | Wayne Chen |
| AC power Line Conducted Emission | SR1 | 24~27°C/ 59~66%RH | 120Vac / 60 Hz | 2021/08/09~ 2021/08/12 | Wayne Chen |

FCC Test Firm Registration Number: 498077

6.4. Description of Available Antennas

| Ant. No. | Transmitter Circuit | Brand Name | Model Name | Ant. Type | Maximum Gain (dBi) |
|----------|---------------------|------------|-----------------|-----------|--------------------|
| 1 | Chain (0) | INPAQ | WAG-M-LA-00-062 | PIFA | 1.3 |

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

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6.5. Test Mode Applicability and Tested Channel Detail

- The EUT has three power source types: 3.6Vdc from battery, 5Vdc from Laptop and 5Vdc from Adapter, above three types were pre-tested, the AC power line conducted emission worst case was found in the 5Vdc from Laptop, the others worst case was found in the 5Vdc from Adapter. Therefore, only the test data of the 5Vdc was recorded in this report.
- For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.
- For below 1 GHz radiated emission and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

| Test item | Mode | Modulation Technology | Modulation Type | Available Channel | Test Channel | Data Rate |
|----------------------------------|-----------|-----------------------|-----------------|-------------------|--------------|-----------|
| Radiated Emissions (Above 1GHz) | 802.11b | DSSS | DBPSK | 1 to 11 | 6 | 1 Mbps |
| | 802.11g | OFDM | BPSK | 1 to 11 | 6 | 6 Mbps |
| Radiated Emissions (Below 1GHz) | 802.11b | DSSS | DBPSK | 1 to 11 | 6 | 1 Mbps |
| AC Power Line Conducted Emission | 802.11b | DSSS | DBPSK | 1 to 11 | 6 | 1 Mbps |
| RF output power | 802.11b | DSSS | DBPSK | 1 to 11 | 1,6,11 | 1 Mbps |
| | 802.11g | OFDM | BPSK | 1 to 11 | 1,6,11 | 6 Mbps |
| | 802.11n20 | OFDM | BPSK | 1 to 11 | 1,6,11 | MCS0 |

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7. Test Equipment

| Test Equipment List | | | | | |
|--|--------------------|-------------------------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Expired date |
| Radiated Spurious Emission | | | | | |
| Spectrum Analyzer | Keysight | N9010A | MY56070827 | 2020/11/11 | 2021/11/10 |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101754 | 2020/12/11 | 2021/12/10 |
| Loop Antenna | ETS lindgren | 6502 | 00213440 | 2020/12/25 | 2021/12/24 |
| Trilog-Broadband Antenna with 5dB Attenuator | Schwarzbeck & EMCI | VULB 9168 & N-6-05 | 774 & AT-N0538 | 2021/1/13 | 2022/1/12 |
| Horn Antenna (1-18 GHz) | Schwarzbeck | BBHA 9120 D | 01690 | 2020/12/30 | 2021/12/29 |
| Horn Antenna (18-40 GHz) | Schwarzbeck | BBHA 9170 | 781 | 2020/12/30 | 2021/12/29 |
| Preamplifier (30-1000 MHz) | EMCI | EMC330E | 980405 | 2021/6/8 | 2022/6/7 |
| Preamplifier (1-18 GHz) | EMCI | EMC051835BE | 980406 | 2021/2/3 | 2022/2/2 |
| Preamplifier (18-40GHz) | EMCI | EMC184040SEE | 980426 | 2021/5/19 | 2022/5/18 |
| Cables | Hanyitek | K1K50-UP0264-K1K50-2500 | 170214-4 & 170425-2 | 2021/1/22 | 2022/1/21 |
| Cables | Hanyitek | K1K50-UP0264-K1K50-2500 | 170214-1 & 170214-2 | 2021/1/22 | 2022/1/21 |

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| Test Equipment List | | | | | |
|------------------------------------|-----------------|-----------|--------------------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Expired date |
| Antenna Port Conducted Measurement | | | | | |
| Spectrum Analyzer | Keysight | N9010A | MY56070834 | 2020/11/6 | 2021/11/5 |
| Pulse Power Sensor | Anritsu | MA2411B | 1531202 | 2020/12/21 | 2021/12/20 |
| Power Meter | Anritsu | ML2495A | 1645002 | 2020/12/21 | 2021/12/20 |
| AC power Line Conducted Emission | | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101753 | 2020/11/17 | 2021/11/16 |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | 102136 | 2020/8/19 | 2021/8/18 |
| Cables | TITAN | CFD200 | T0732ACFD20 020A300-1 | 2021/3/2 | 2022/3/1 |

| UL Software | | |
|----------------------------------|-------------------------|----------------|
| Description | Name | Version |
| Radiated measurement | e3 | 6.191211 (V6) |
| Conducted measurement | RF Conducted Test Tools | ver 2.4.0.620b |
| AC power Line Conducted Emission | EZ EMC | UL-3A1.2 |

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8. Description of Test Setup

For Radiated Emissions

Support Equipment

| ID | Equipment | Brand Name | Model Name | S/N | Remark |
|----|-----------|------------|----------------|---------|----------------|
| A | Laptop | DELL | Latitude E5470 | 5M2MWF2 | Provide by Lab |

I/O Cables

| ID | Equipment | Brand Name | Model Name | Length (m) | Remark |
|----|-------------------------|------------|------------|------------|-------------------|
| 1 | Micro USB console cable | N/A | N/A | 1 | Provide by Client |

For AC power Line Conducted Emission

Support Equipment

| ID | Equipment | Brand Name | Model Name | S/N | Remark |
|----|-----------|------------|------------|--------------|-------------------|
| A | Adapter | Arlo | 2ADB010B | 332-50094-02 | Provide by Client |

I/O Cables

| ID | Equipment | Brand Name | Model Name | Length (m) | Remark |
|----|-------------------------|------------|------------|------------|-------------------|
| 1 | Micro USB console cable | N/A | N/A | 1 | Provide by Client |

Test Setup

Controlled using a bespoke application (Tera Term tool to paste wl command) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

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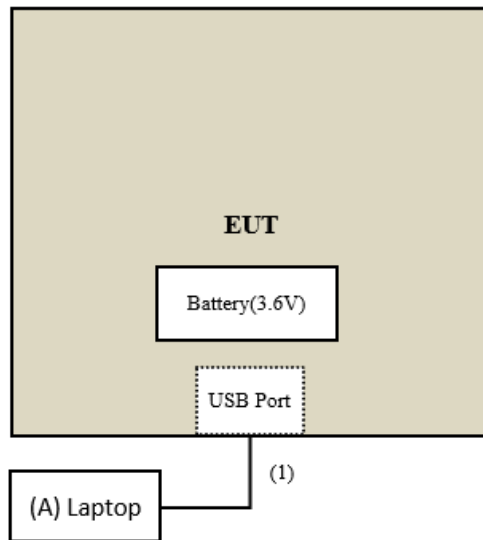
Facsimile (FAX) :+886-3-583-7948

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Setup Diagram for Test

For Radiated Emissions



Under Table

Remote Site

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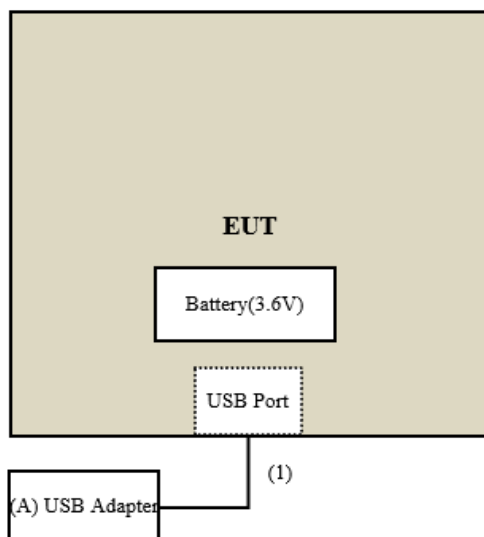
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For AC power Line Conducted Emission



Under Table

Remote Site

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9. Test Results

9.1. Conducted Output Power

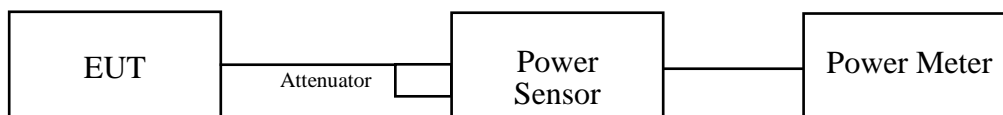
Requirements

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Test Procedure

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.



Test Data

Peak Power

802.11b

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass / Fail |
|---------|-----------------|-----------------|------------------|-------------|-------------|
| 1 | 2412 | 104.713 | 20.20 | 30 | PASS |
| 6 | 2437 | 204.644 | 23.11 | 30 | PASS |
| 11 | 2462 | 131.522 | 21.19 | 30 | PASS |

802.11g

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass / Fail |
|---------|-----------------|-----------------|------------------|-------------|-------------|
| 1 | 2412 | 189.671 | 22.78 | 30 | PASS |
| 6 | 2437 | 277.971 | 24.44 | 30 | PASS |
| 11 | 2462 | 216.77 | 23.36 | 30 | PASS |

802.11n (HT20)

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass / Fail |
|---------|-----------------|-----------------|------------------|-------------|-------------|
| 1 | 2412 | 183.654 | 22.64 | 30 | PASS |
| 6 | 2437 | 275.423 | 24.40 | 30 | PASS |
| 11 | 2462 | 180.717 | 22.57 | 30 | PASS |

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Average Power (Reference Only)

802.11b

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1 | 2412 | 54.576 | 17.37 |
| 6 | 2437 | 126.474 | 21.02 |
| 11 | 2462 | 73.961 | 18.69 |

802.11g

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1 | 2412 | 29.242 | 14.66 |
| 6 | 2437 | 71.614 | 18.55 |
| 11 | 2462 | 34.435 | 15.37 |

802.11n (HT20)

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1 | 2412 | 27.227 | 14.35 |
| 6 | 2437 | 61.802 | 17.91 |
| 11 | 2462 | 27.479 | 14.39 |

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9.2. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| Frequency(MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|----------------|--------------------------------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

| Configuration | Average | |
|----------------|---------|------|
| | RBW | VBW |
| 802.11b | 1MHz | 10Hz |
| 802.11g | | 1kHz |
| 802.11n (HT20) | | 1kHz |

- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported.

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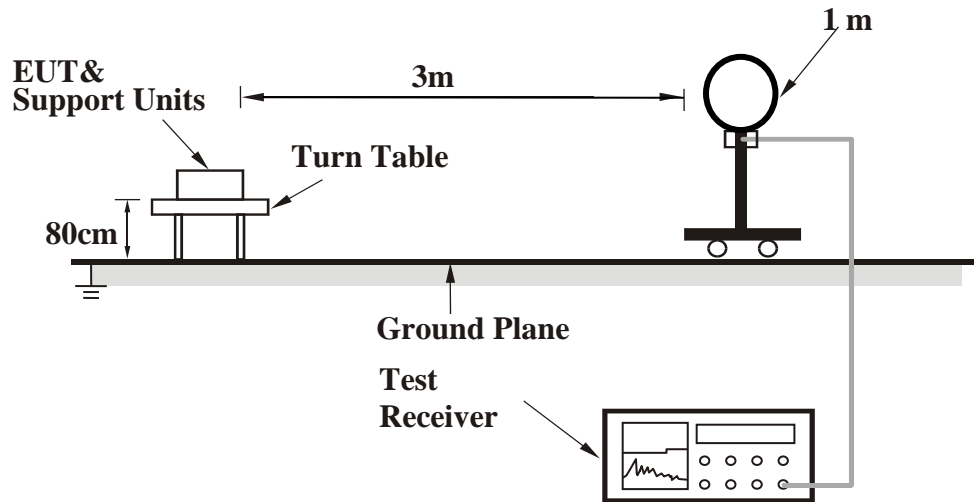
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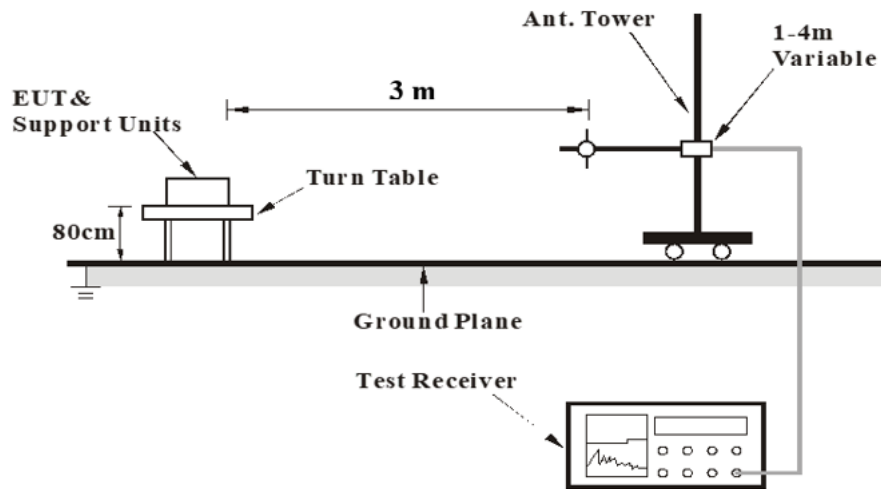
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Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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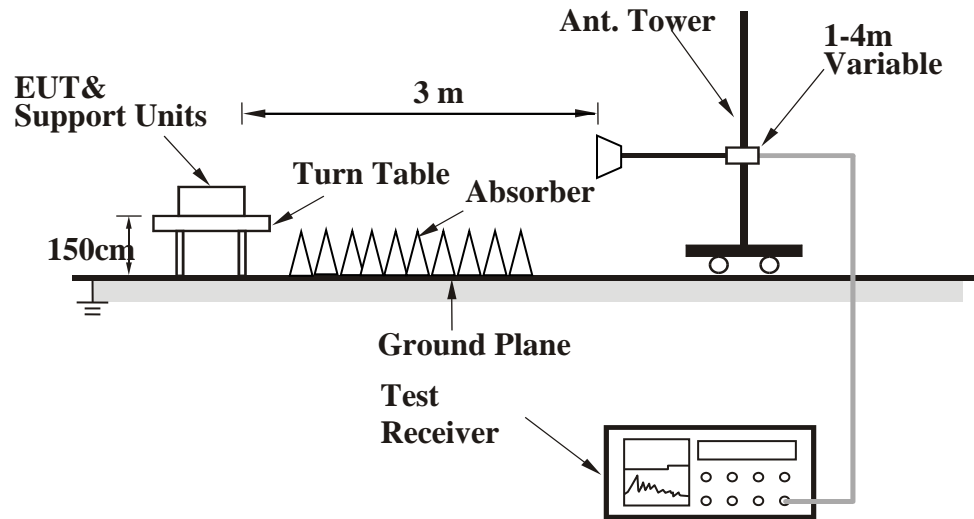
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

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Test Data

Above 1GHz Data

802.11b

| EUT Test Condition | | Measurement Detail | |
|--------------------|-----------|--------------------|------------------|
| Channel | Channel 6 | Frequency Range | 1 GHz ~ 26.5 GHz |

| Antenna Polarity & Test Distance: Horizontal at 3 m | | | | | | | |
|---|-----------|----------|---------|----------|----------|--------|---------|
| Notation | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| * | 4874 | 49.22 | 2.66 | 51.88 | 74 | -22.12 | Peak |
| - | 7311 | 42.01 | 10.62 | 52.63 | 54 | -1.37 | Average |
| - | 7311 | 45.27 | 10.62 | 55.89 | 74 | -18.11 | Peak |
| - | 2389.99 | 32.34 | 16.1 | 48.44 | 54 | -5.56 | Average |
| @ | 2437 | 90.16 | 16.12 | 106.28 | - | - | Average |
| - | 2484.42 | 31.4 | 16.1 | 47.5 | 54 | -6.5 | Average |
| - | 2348.57 | 41.11 | 16.04 | 57.15 | 74 | -16.85 | Peak |
| @ | 2437 | 93.73 | 16.12 | 109.85 | - | - | Peak |
| - | 2488.41 | 40.15 | 16.1 | 56.25 | 74 | -17.75 | Peak |
| Antenna Polarity & Test Distance: Vertical at 3 m | | | | | | | |
| Notation | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| * | 4874 | 49.5 | 2.66 | 52.16 | 74 | -21.84 | Peak |
| - | 7311 | 43.01 | 10.62 | 53.63 | 54 | -0.37 | Average |
| - | 7311 | 46.42 | 10.62 | 57.04 | 74 | -16.96 | Peak |
| - | 2389.99 | 33.38 | 16.1 | 49.48 | 54 | -4.52 | Average |
| @ | 2437 | 91.03 | 16.12 | 107.15 | - | - | Average |
| - | 2484.99 | 33.11 | 16.1 | 49.21 | 54 | -4.79 | Average |
| - | 2348.19 | 41.51 | 16.04 | 57.55 | 74 | -16.45 | Peak |
| @ | 2437 | 94.93 | 16.12 | 111.05 | - | - | Peak |
| - | 2498.48 | 42.55 | 16.1 | 58.65 | 74 | -15.35 | Peak |

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11g

| EUT Test Condition | | Measurement Detail | |
|--------------------|-----------|--------------------|------------------|
| Channel | Channel 6 | Frequency Range | 1 GHz ~ 26.5 GHz |

| Antenna Polarity & Test Distance: Horizontal at 3 m | | | | | | | |
|---|-----------|----------|---------|----------|----------|--------|---------|
| Notation | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| * | 4874 | 44.92 | 2.66 | 47.58 | 74 | -26.42 | Peak |
| - | 7311 | 32.48 | 10.62 | 43.1 | 54 | -10.9 | Average |
| - | 7311 | 43.45 | 10.62 | 54.07 | 74 | -19.93 | Peak |
| - | 2388.66 | 35.89 | 16.1 | 51.99 | 54 | -2.01 | Average |
| @ | 2437 | 85.24 | 16.12 | 101.36 | - | - | Average |
| - | 2483.66 | 34.28 | 16.1 | 50.38 | 54 | -3.62 | Average |
| - | 2379.35 | 47.58 | 16.08 | 63.66 | 74 | -10.34 | Peak |
| @ | 2437 | 90.99 | 16.12 | 107.11 | - | - | Peak |
| - | 2485.75 | 41.94 | 16.1 | 58.04 | 74 | -15.96 | Peak |
| Antenna Polarity & Test Distance: Vertical at 3 m | | | | | | | |
| Notation | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| * | 4874 | 47.99 | 2.66 | 50.65 | 74 | -23.35 | Peak |
| - | 7311 | 35.43 | 10.62 | 46.05 | 54 | -7.95 | Average |
| - | 7311 | 46.72 | 10.62 | 57.34 | 74 | -16.66 | Peak |
| - | 2388.66 | 37.64 | 16.1 | 53.74 | 54 | -0.26 | Average |
| @ | 2437 | 87.28 | 16.12 | 103.4 | - | - | Average |
| - | 2484.99 | 36.82 | 16.1 | 52.92 | 54 | -1.08 | Average |
| - | 2371.37 | 47.97 | 16.07 | 64.04 | 74 | -9.96 | Peak |
| @ | 2437 | 94.55 | 16.12 | 110.67 | - | - | Peak |
| - | 2485.18 | 48.47 | 16.1 | 64.57 | 74 | -9.43 | Peak |

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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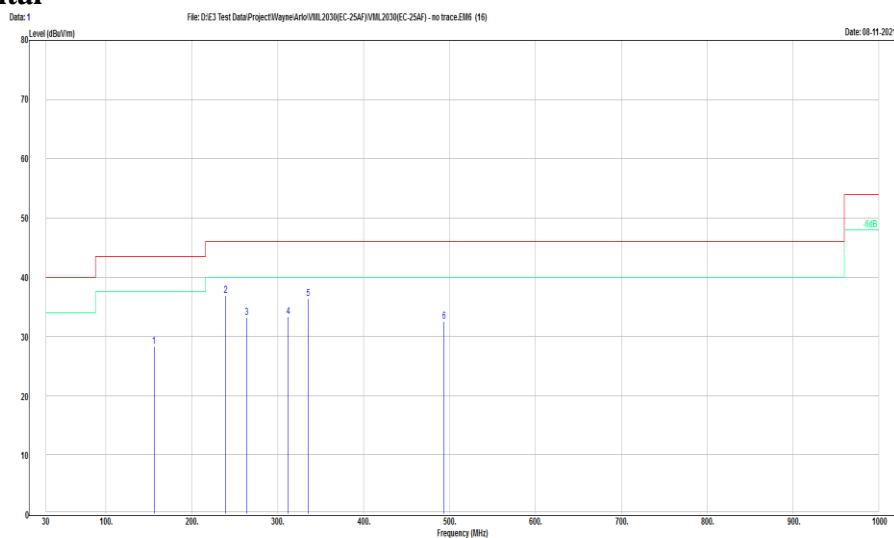


30 MHz ~ 1 GHz Data

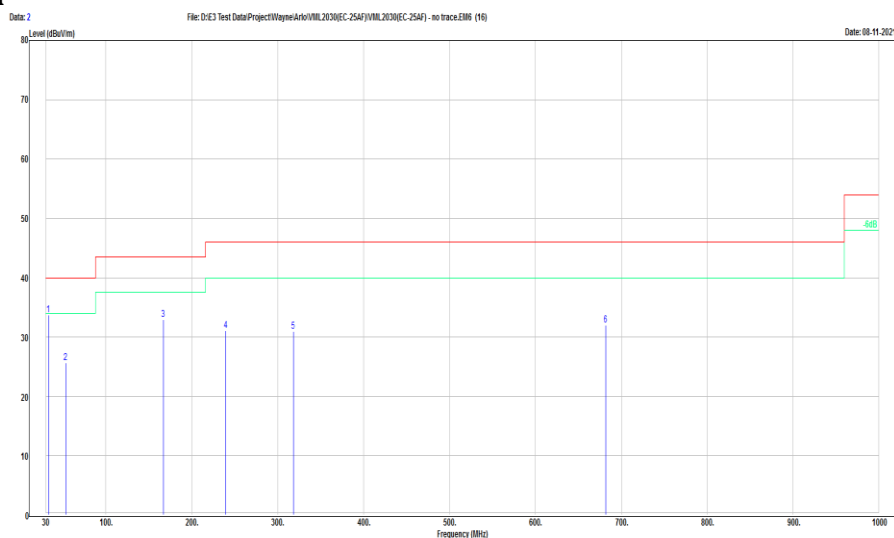
802.11b

| EUT Test Condition | | Measurement Detail | |
|--------------------|-----------|--------------------|----------------|
| Channel | Channel 6 | Frequency Range | 30 MHz ~ 1 GHz |

Horizontal



Vertical



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| Antenna Polarity & Test Distance: Horizontal at 3 m | | | | | | | |
|---|-----------|----------|---------|----------|----------|--------|--------|
| Notation | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| - | 156.1 | 39.5 | -11.21 | 28.29 | 43.5 | -15.21 | Peak |
| - | 239.52 | 49.01 | -12.12 | 36.89 | 46 | -9.11 | Peak |
| - | 263.77 | 44.41 | -11.22 | 33.19 | 46 | -12.81 | Peak |
| - | 312.27 | 43.02 | -9.65 | 33.37 | 46 | -12.63 | Peak |
| - | 335.55 | 45.1 | -8.79 | 36.31 | 46 | -9.69 | Peak |
| - | 493.66 | 37.41 | -4.82 | 32.59 | 46 | -13.41 | Peak |
| Antenna Polarity & Test Distance: Vertical at 3 m | | | | | | | |
| Notation | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| - | 32.91 | 46.06 | -12.4 | 33.66 | 40 | -6.34 | Peak |
| - | 53.28 | 36.78 | -11.11 | 25.67 | 40 | -14.33 | Peak |
| - | 166.77 | 44.07 | -11.13 | 32.94 | 43.5 | -10.56 | Peak |
| - | 239.52 | 43.22 | -12.12 | 31.1 | 46 | -14.9 | Peak |
| - | 318.09 | 40.3 | -9.38 | 30.92 | 46 | -15.08 | Peak |
| - | 681.84 | 32.78 | -0.77 | 32.01 | 46 | -13.99 | Peak |

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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9.3. AC Power Line Conducted Emission

Requirements

| Frequency (MHz) | Conducted limit (dBμV) | |
|-----------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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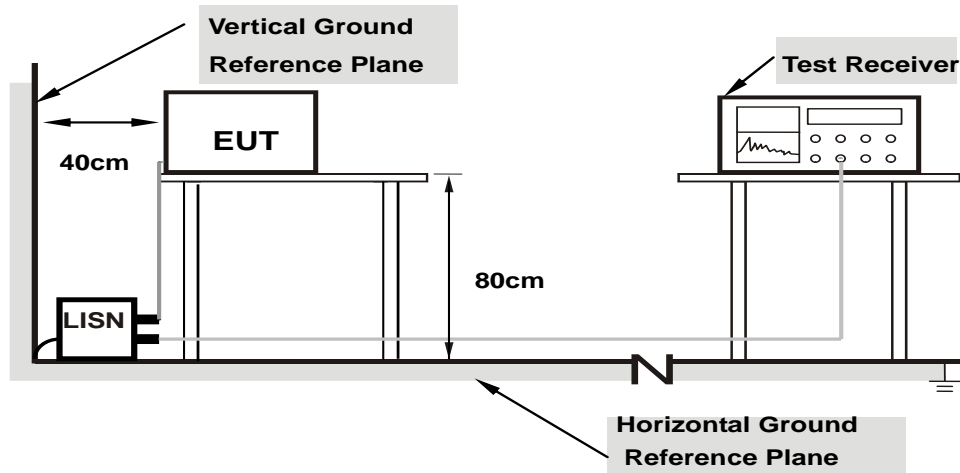
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Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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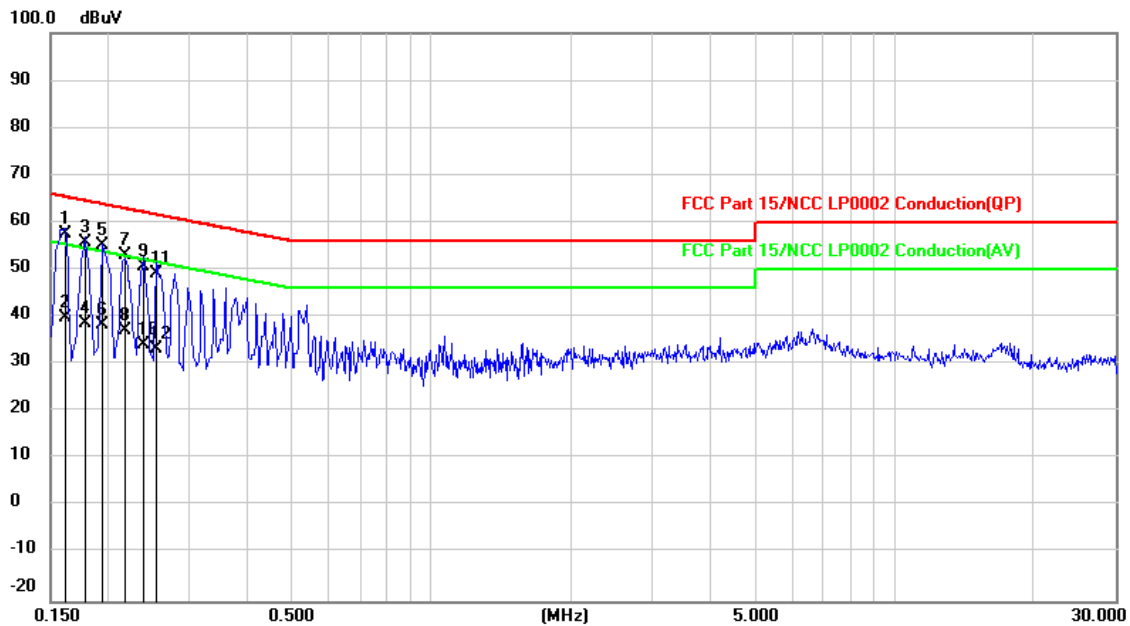


Test Data

802.11b

| EUT Test Condition | | Measurement Detail | |
|--------------------|-----------|--------------------|------------------|
| Channel | Channel 6 | Frequency Range | 150 kHz ~ 30 MHz |

Phase of Power : Line (L)



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FCC ID : 2APLE18300421

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | dB | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1620 | 38.04 | 19.50 | 57.54 | 65.36 | -7.82 | QP |
| 2 | 0.1620 | 20.36 | 19.50 | 39.86 | 55.36 | -15.50 | AVG |
| 3 | 0.1780 | 36.39 | 19.49 | 55.88 | 64.58 | -8.70 | QP |
| 4 | 0.1780 | 19.31 | 19.49 | 38.80 | 54.58 | -15.78 | AVG |
| 5 | 0.1940 | 35.70 | 19.49 | 55.19 | 63.86 | -8.67 | QP |
| 6 | 0.1940 | 18.79 | 19.49 | 38.28 | 53.86 | -15.58 | AVG |
| 7 | 0.2180 | 33.68 | 19.49 | 53.17 | 62.89 | -9.72 | QP |
| 8 | 0.2180 | 17.63 | 19.49 | 37.12 | 52.89 | -15.77 | AVG |
| 9 | 0.2380 | 31.30 | 19.49 | 50.79 | 62.17 | -11.38 | QP |
| 10 | 0.2380 | 14.71 | 19.49 | 34.20 | 52.17 | -17.97 | AVG |
| 11 | 0.2540 | 29.53 | 19.49 | 49.02 | 61.63 | -12.61 | QP |
| 12 | 0.2540 | 13.69 | 19.49 | 33.18 | 51.63 | -18.45 | AVG |

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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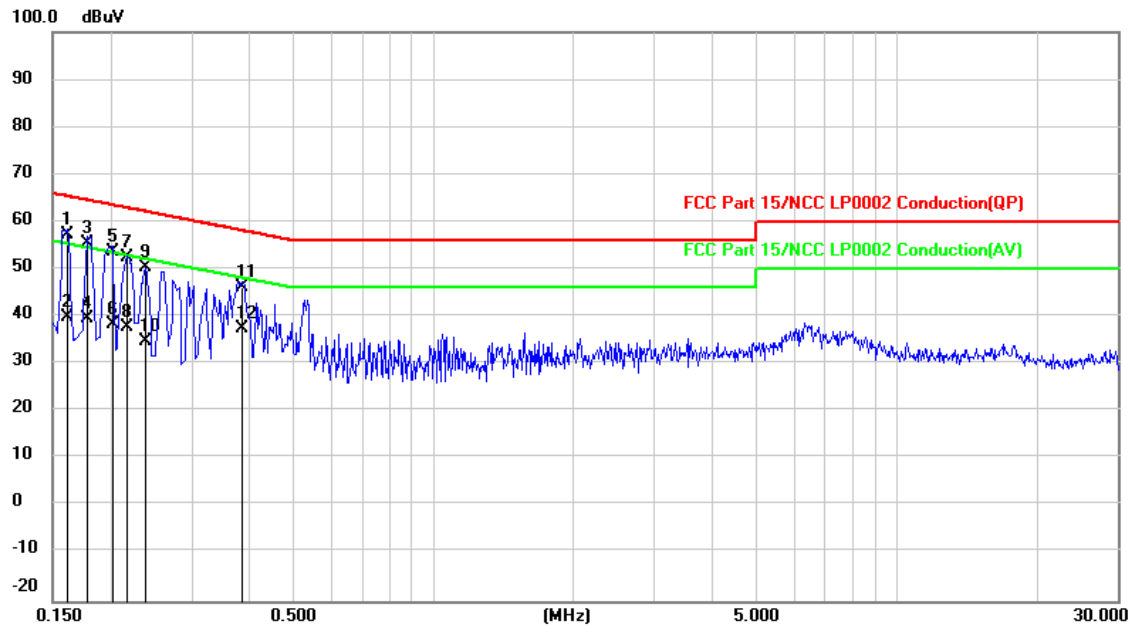
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Phase of Power : Neutral (N)



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| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | dB | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1620 | 37.63 | 19.50 | 57.13 | 65.36 | -8.23 | QP |
| 2 | 0.1620 | 20.48 | 19.50 | 39.98 | 55.36 | -15.38 | AVG |
| 3 | 0.1780 | 36.04 | 19.49 | 55.53 | 64.58 | -9.05 | QP |
| 4 | 0.1780 | 20.00 | 19.49 | 39.49 | 54.58 | -15.09 | AVG |
| 5 | 0.2020 | 34.26 | 19.49 | 53.75 | 63.53 | -9.78 | QP |
| 6 | 0.2020 | 18.76 | 19.49 | 38.25 | 53.53 | -15.28 | AVG |
| 7 | 0.2180 | 32.93 | 19.49 | 52.42 | 62.89 | -10.47 | QP |
| 8 | 0.2180 | 18.15 | 19.49 | 37.64 | 52.89 | -15.25 | AVG |
| 9 | 0.2380 | 30.87 | 19.49 | 50.36 | 62.17 | -11.81 | QP |
| 10 | 0.2380 | 15.19 | 19.49 | 34.68 | 52.17 | -17.49 | AVG |
| 11 | 0.3860 | 26.75 | 19.48 | 46.23 | 58.15 | -11.92 | QP |
| 12 | 0.3860 | 18.04 | 19.48 | 37.52 | 48.15 | -10.63 | AVG |

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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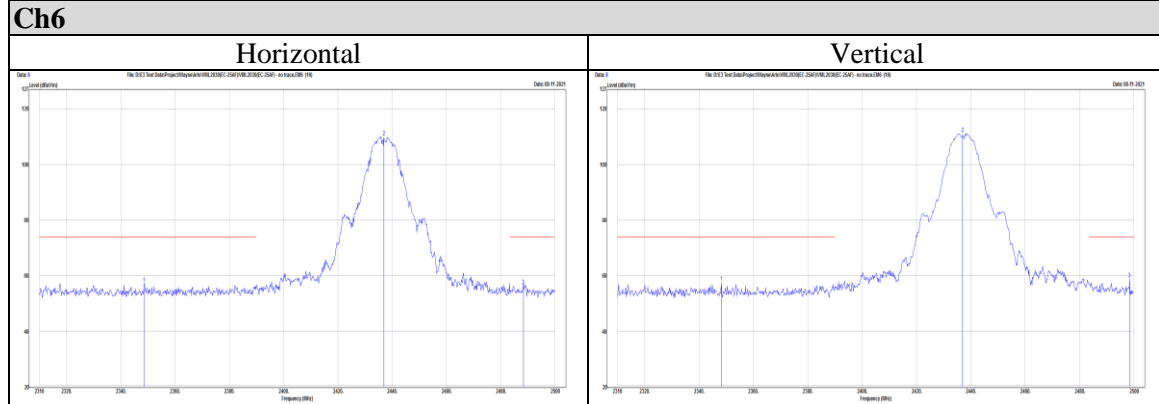
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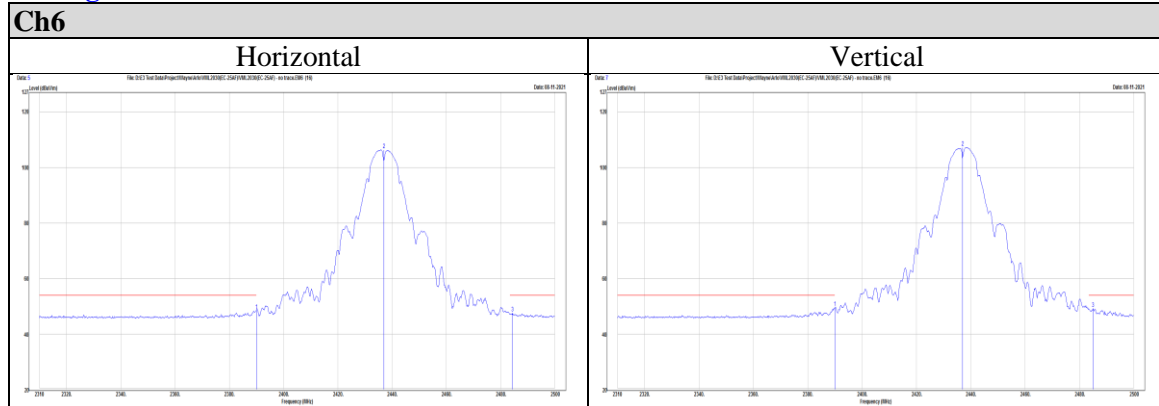
Appendix I Radiated Band Edge Measurement

802.11b

Peak



Average



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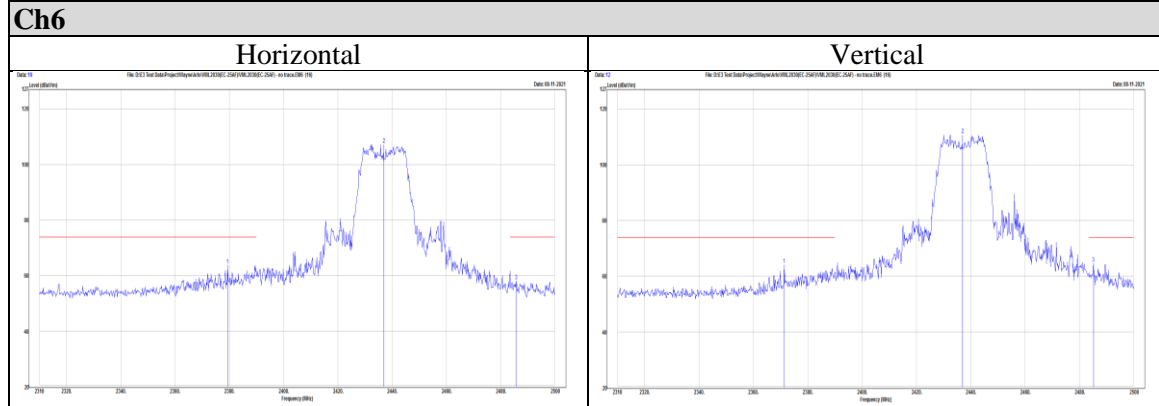
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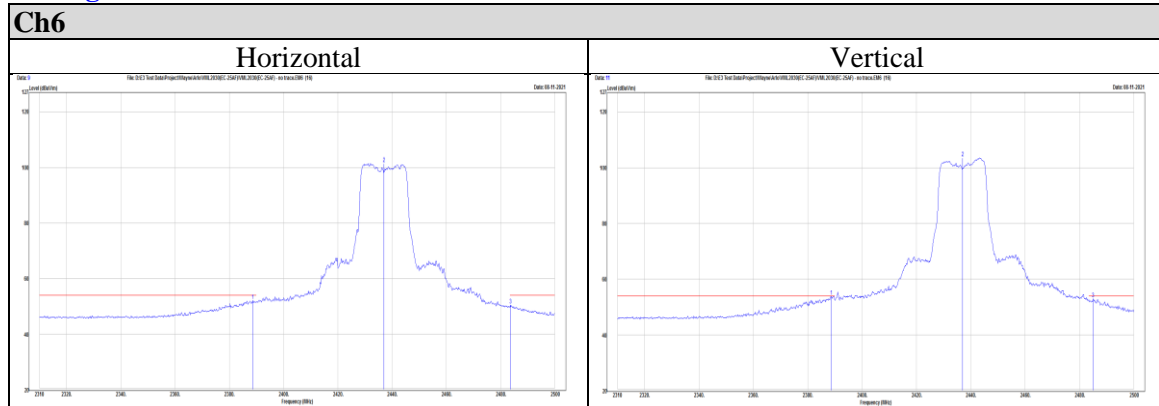


802.11g

Peak



Average



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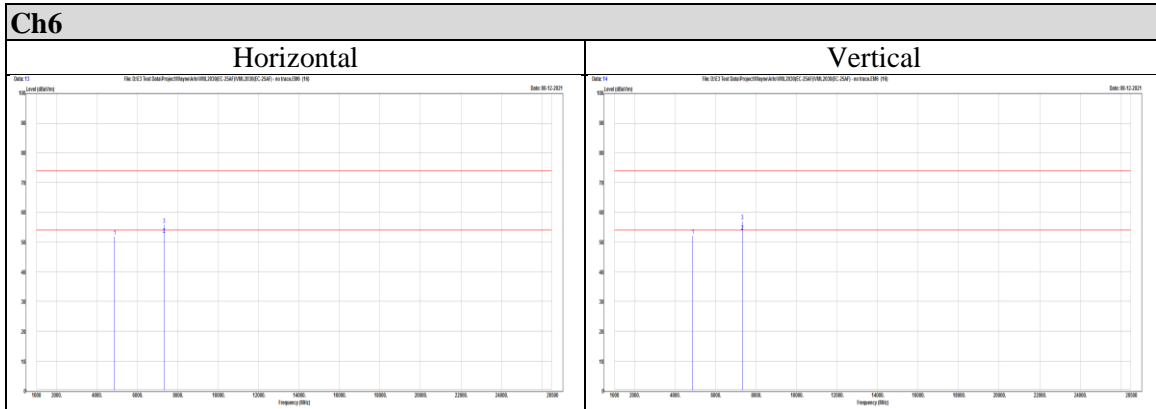
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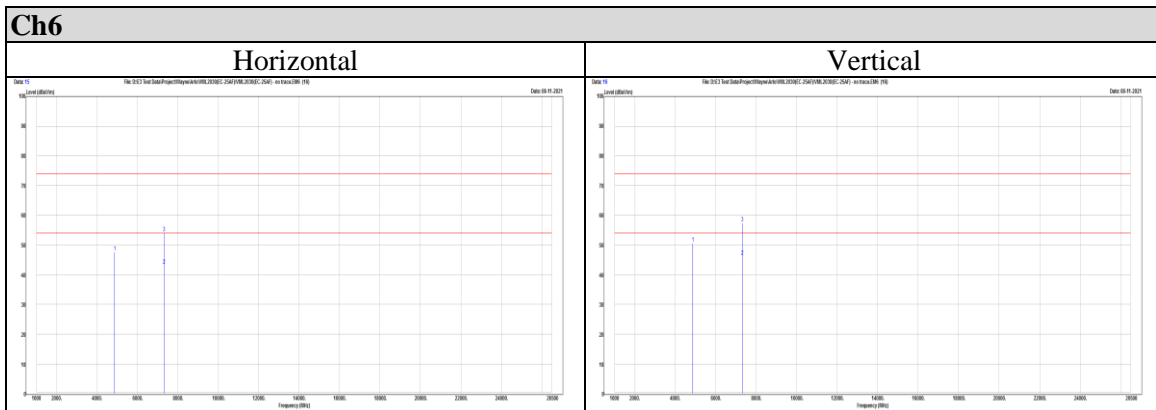


Appendix II Radiated Spurious Emission Measurement

802.11b



802.11g



END OF REPORT

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