

CO-LOCATION RADIO TEST REPORT

Product : Security Camera
Model Name : VMC4072
Series Model : VMC4070
FCC ID : 2APLE18300434
Test Regulation : FCC 47 CFR PART 15 Subpart C (Section 15.247)
FCC 47 CFR PART 15 Subpart E (Section 15.407)
Received Date : 2025/5/8
Test Date : 2025/3/28 ~ 2025/5/20
Issued Date : 2025/6/30
Applicant : Arlo Technologies Inc
5770 Fleet St, Suite 200, Carlsbad, CA 92008 USA
Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan



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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

REVISION HISTORY

Original Test Report No.: 4791780259-US-R4-V0

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1. Attestation of Test Results

APPLICANT: Arlo Technologies Inc
 5770 Fleet St, Suite 200, Carlsbad, CA 92008 USA

MANUFACTURER: Arlo Technologies Inc
 5770 Fleet St, Suite 200, Carlsbad, CA 92008 USA

EUT DESCRIPTION: Security Camera

BRAND: arlo

MODEL: VMC4072

SERIES MODEL: VMC4070

SAMPLE STAGE: Engineering Verification Test Sample

DATE of TESTED: 2025/3/28 ~ 2025/5/20

| APPLICABLE STANDARDS | |
|---|--------------|
| STANDARD | Test Results |
| FCC 47 CFR PART 15 Subpart C (Section 15.247) | PASS |
| FCC 47 CFR PART 15 Subpart E (Section 15.407) | 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 : 2025/6/30

Approved and Authorized By:



Eric Lee
 Senior Laboratory Engineer

Date : 2025/6/30

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2. Summary of Test Results

| Summary of Test Results | | |
|---|-----------------------------|--------|
| FCC Clause | Test Items | Result |
| 15.205 / 15.209 / 15.247(d) / 15.407(b) (1/2/3/4(i/ii)/9) /15.407(b)(5)(8) | Radiated Spurious Emission | PASS |
| 15.247(d) | Antenna Port Emission | PASS |
| 15.207 15.407(b)(9) | AC Power Conducted Emission | PASS |

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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, KDB 789033 D02 General UNII Test Procedure New Rules v02r01, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013.

4. Facilities and Accreditation

| | |
|----------------------------------|---|
| Test Location | Underwriters Laboratories Taiwan Co., Ltd. |
| Address | Building A, B and 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. |

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5. Measurement Uncertainty

For statement of conformity, Simple acceptance (Section 3.1.4 of IEC Guide 115) 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.

Determining compliance based on the results of the compliance measurement, not considering measurement instrumentation uncertainty.

| Measurement | Frequency | Uncertainty |
|--|----------------|-------------|
| Conducted disturbance at mains terminals ports | 150kHz ~ 30MHz | 3.1 dB |
| RF Conducted | 9 kHz - 40GHz | 2.4 dB |
| Radiated disturbance below 30MHz | 9 kHz - 30 MHz | 3.2 dB |
| Radiated disturbance below 1 GHz | 30MHz ~ 1GHz | 6.1 dB |
| Radiated disturbance above 1 GHz | 1GHz ~ 40GHz | 5.1 dB |

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6. Equipment under Test

6.1. Description of EUT

| | |
|-----------------------|--|
| Product | Security Camera |
| Brand Name | arlo |
| Model Name | VMC4072 |
| Series Model | VMC4070 |
| Normal Voltage | 5Vdc/6.6Vdc from Host 3.89Vdc/3.6Vdc from Battery |

| | |
|----------------------------|--|
| Operating Frequency | BT LE: 2402MHz ~ 2480MHz 2.4G WiFi: 2412MHz ~ 2462MHz 5G WiFi: 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz |
| Sample ID | Conducted Test:8293189 Radiated Test:8293189 |

Note:

1. The models difference table as below:

| Model | MECH (Enclosure) | Battery Type |
|---------|---|----------------------|
| VMC4072 | Large housing | 4 cell battery(A-14) |
| VMC4070 | Regular the housing that have two different colors, one is white and another is black | 1 cell battery(A-23) |

All models are electrically identical (Include: circuitry, components, layout, antenna type and gain).

2. The EUT contains following accessory devices:

| Product | Brand | Model | Description |
|-----------|--------|--------------|-------------|
| USB Cable | Nienyi | 310-50024-01 | Length: 1m |
| Mount | Arlo | Mount | - |

3. The EUT contains a removable, rechargeable battery.

| Brand | Model | Description |
|-------|-------|-------------------------------------|
| Arlo | A-23 | 3.89Vdc, 21.41Wh, 5655mAh (VMC4070) |
| Arlo | A-14 | 3.6Vdc, 46.8Wh, 13000mAh (VMC4072) |

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.

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6.2. Test Condition

| Test Item | Test Site No. | Environmental | Input Power | Test Date | Tested by |
|----------------------------------|---------------|----------------------|--------------|---------------------------|------------------|
| Radiated Spurious Emission | 966-2 | 22~26°C/ 62~68%RH | 5Vdc | 2025/03/28~ 2025/05/20 | WaterNil Guan |
| AC power Line Conducted Emission | SR1 | 23~25°C/ 57~59%RH | 120Vac/ 60Hz | 2025/05/05~ 2025/05/13 | WaterNil Guan |

Sample Calculation:

Antenna Port Conducted Measurement:

- Where relevant, the follow sample calculation is provided:

$$\text{Result Value (dBm)} = \text{Reading Value (dBm)} + \text{Attenuator Factor (dB)} + \text{Cable Loss (dB)}.$$

Example: Result Value (10dBm) = Reading Value (-2dBm) + Attenuator Factor (10dB) + Cable Loss(2dB).

*Test plot only shown the “Result Value”.

Radiated Spurious Emission:

- Where relevant, the follow sample calculation is provided:

$$\text{Result Value (dBuV/m)} = \text{Reading Value (dBuV)} + \text{Correction Factor (dB/m)}.$$

$$\text{Correction Factor (dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Factor (dB)}.$$

Example: Result Value (34.5dBuV/m) = Reading Value (40.1dBuV) + Antenna Factor (18.7dB/m) + Cable Loss (4.2dB) - Preamp Factor (28.5dB).

AC power Line Conducted Emission:

- Where relevant, the follow sample calculation is provided:

$$\text{Result Value (dBuV)} = \text{Reading Value (dBuV)} + \text{Correction Factor (dB)}.$$

$$\text{Correction Factor (dB)} = \text{Insertion loss(dB)} + \text{Cable loss(dB)}.$$

Example: Result Value (53.7dBuV) = Reading Value (35.1dBuV) + Insertion loss(18.1dB) + Cable loss(0.5dB).

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6.3. Description of Available Antennas

| Ant. No. | Transmitter Circuit | Frequency Range | Brand Name | Model Name | Maximum Gain (dBi) | Ant. Type | Connector Type |
|----------|---------------------|----------------------------------|------------|---------------|--------------------|------------------|----------------|
| 1 | Chain0 | 2402 ~ 2480MHz 5150 ~ 5875MHz | arlo | 2APLE18300434 | 2 3.4 | Internal / Metal | N/A |

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, the laboratory shall not be held responsible.

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6.4. Test Mode Applicability and Tested Channel Detail

Simultaneously transmission condition:

| Condition | Technology | |
|-----------|---------------|-------|
| 1 | WLAN (2.4GHz) | BT-LE |
| 2 | WLAN (5GHz) | BT-LE |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

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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 | MY56070818 | 2025/3/12 | 2026/3/11 |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101754 | 2024/12/24 | 2025/12/23 |
| Loop Antenna | ETS lindgren | 6502 | 00213440 | 2024/12/11 | 2025/12/10 |
| Trilog-Broadband Antenna with 5dB Attenuator | Schwarzbeck & EMCI | VULB 9168 & N-6-05 | 774 & AT-N0538 | 2024/12/30 | 2025/12/29 |
| Horn Antenna (1-18 GHz) | Schwarzbeck | BBHA 9120 D | 01690 | 2024/11/27 | 2025/11/26 |
| Horn Antenna (18-40 GHz) | Schwarzbeck | BBHA 9170 | 781 | 2024/12/18 | 2025/12/17 |
| Preamplifier (30-1000 MHz) | EMCI | EMC330E | 980405 | 2024/5/28 | 2025/5/27 |
| Preamplifier (1-18 GHz) | EMCI | EMC051835BE | 980406 | 2025/1/13 | 2026/1/12 |
| Preamplifier (18-40GHz) | EMCI | EMC184040SEE | 980426 | 2025/4/7 | 2026/4/6 |
| Cables (9k-18 GHz) | Hanyitek | K1K50-UP0264-K1K50-2500 | 170214-4 & 170425-2 | 2024/11/22 | 2025/11/21 |
| Cables (18-40GHz) | Hanyitek | K1K50-UP0264-K1K50-2500 | 170214-1 & 170214-2 | 2024/11/22 | 2025/11/21 |

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| Test Equipment List | | | | | |
|---|-----------------|-------------------|-----------------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Expired date |
| Antenna Port Conducted Measurement | | | | | |
| Signal Analyzer | Rohde & Schwarz | FSVA3044 | 101281 | 2025/3/5 | 2026/3/4 |
| Signal Analyzer | Rohde & Schwarz | FSV40 | 101490 | 2024/7/1 | 2025/6/30 |
| Attenuator | EMCI | EMC-40ATK2W10 | 17002 | 2024/11/13 | 2025/11/12 |
| USB Power Sensor | Anritsu | MA24408A | 12031 | 2024/7/13 | 2025/7/12 |
| Temperature &Humidity Test Chamber | GIANT FORCE | GTH-150- 40-CP-AR | MAA1701-010 | 2025/2/25 | 2026/2/24 |
| AC power Line Conducted Emission | | | | | |
| EMI Test Receiver | Rohde & Schwarz | ESR7 | 101753 | 2024/10/1 | 2025/9/30 |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | 102136 | 2024/5/14 | 2025/5/13 |
| Impuls-Begrenzer Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 102219-Qt | 2024/8/29 | 2025/8/28 |
| Cables | TITAN | CFD200 | T0732ACFD 20020A300-2 | 2025/4/21 | 2026/4/20 |

| UL Software | | |
|----------------------------------|---------|---------------|
| Description | Name | Version |
| Radiated measurement | e3 | 6.191211 (V6) |
| AC power Line Conducted Emission | EZ_EMCA | UL-3A1.2 |

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8. Description of Test Setup

Support Equipment

| ID | Equipment | Brand Name | Model Name | S/N | Remark |
|----|-----------|------------|----------------|---------|--------------------|
| A | Laptop | DELL | Latitude E5470 | 3JFKWF2 | Provided by Lab |
| B | Mount | Arlo | Mount | N/A | Provided by Client |

I/O Cables

| ID | Equipment | Brand Name | Model Name | Length (m) | Remark |
|----|-----------|------------|--------------|------------|--------------------|
| 1 | USB Cable | Nienyi | 310-50024-01 | 0.9 | Provided by Client |

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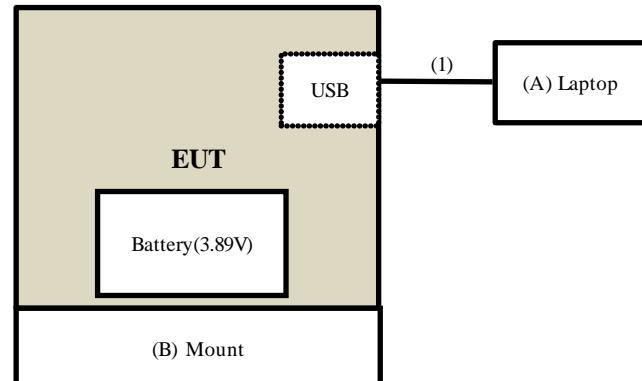
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Test Setup

Controlled using a bespoke application (Typing RF command by terminal tool(Tera Term version 4.94)) 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.

Setup Diagram for Test



Under Table

Remote Site

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9. Test Results

9.1. Conducted Out of Band Emission

Requirements

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.

Test procedure

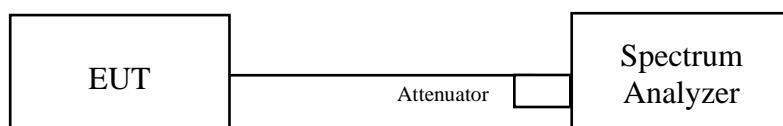
Measurement Procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOBE

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Setup



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

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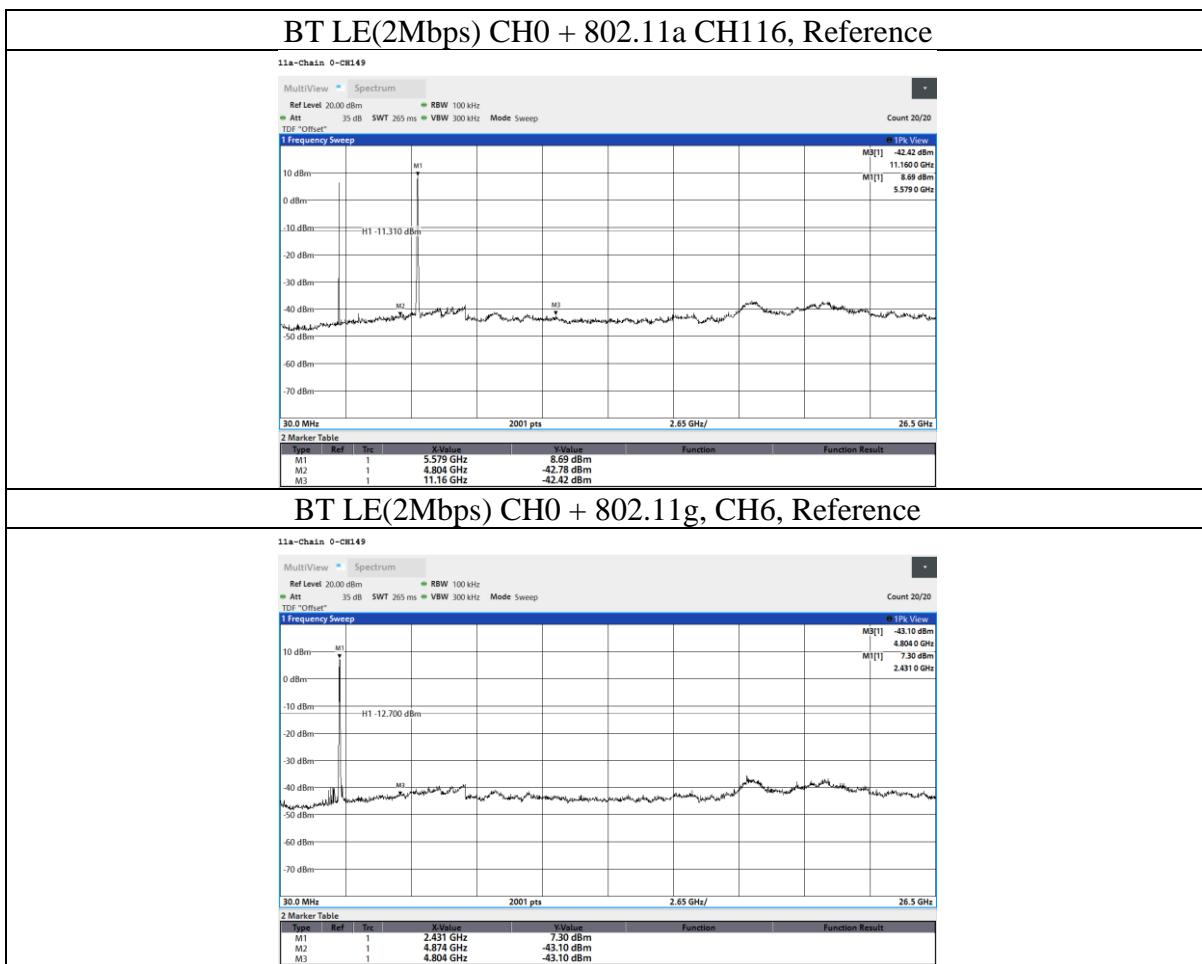
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Test Data



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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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Limits of unwanted emission out of the restricted bands

| Applicable To | | Limit | |
|---|-----------------|---|---|
| 789033 D02 General UNII Test Procedure New Rules v02r01 | | Field Strength at 3m | |
| | | PK:74 (dB μ V/m) | AV:54 (dB μ V/m) |
| Frequency Band | Applicable To | EIRP Limit | Equivalent Field Strength at 3m |
| 5150~5250 MHz | 15.407(b)(1) | PK:-27 (dBm/MHz) | PK:68.2(dB μ V/m) |
| 5250~5350 MHz | 15.407(b)(2) | | |
| 5470~5725 MHz | 15.407(b)(3) | | |
| 5725~5850 MHz | 15.407(b)(4)(i) | PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4} | PK: 68.2(dB μ V/m) ^{*1} PK:105.2 (dB μ V/m) ^{*2} PK: 110.8(dB μ V/m) ^{*3} PK:122.2 (dB μ V/m) ^{*4} |

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

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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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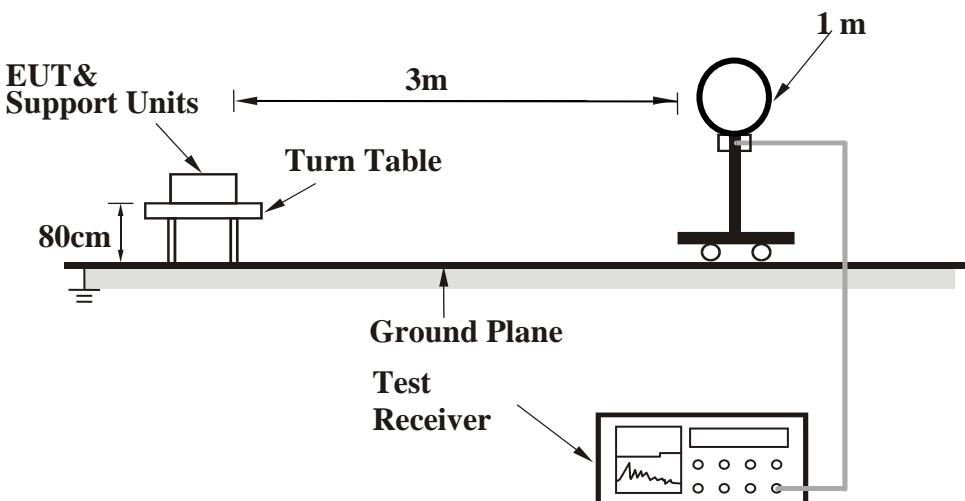
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Note:

- 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, for 1/T (Duty cycle < 98%) video bandwidth detail information refer to main report duty cycle test result.
- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- e. Test data of Result value (dB_{UV}/m) = Reading value (dB_{UV}/m) + Correction Factor (dB/m).
- f. Test data of Margin(dB) = Result value (dB_{UV}/m) - Limit value (dB_{UV}/m).
- g. Test data of Correction Factor (dB/m) = Antenna Factor (dB_{UV}/m) + Cable Loss (dB) - Preamp Factor (dB).
- h. Test data of Notation "@" = Fundamental Frequency
- i. Test data of Notation "*" = The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



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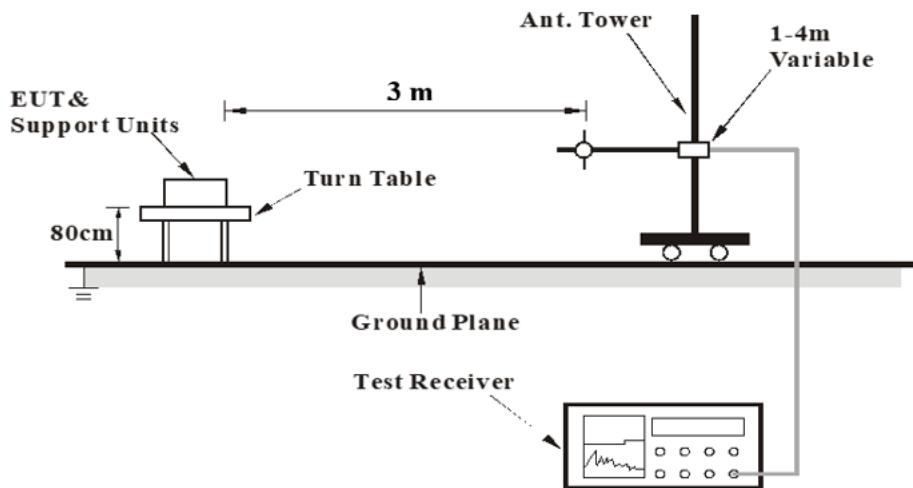
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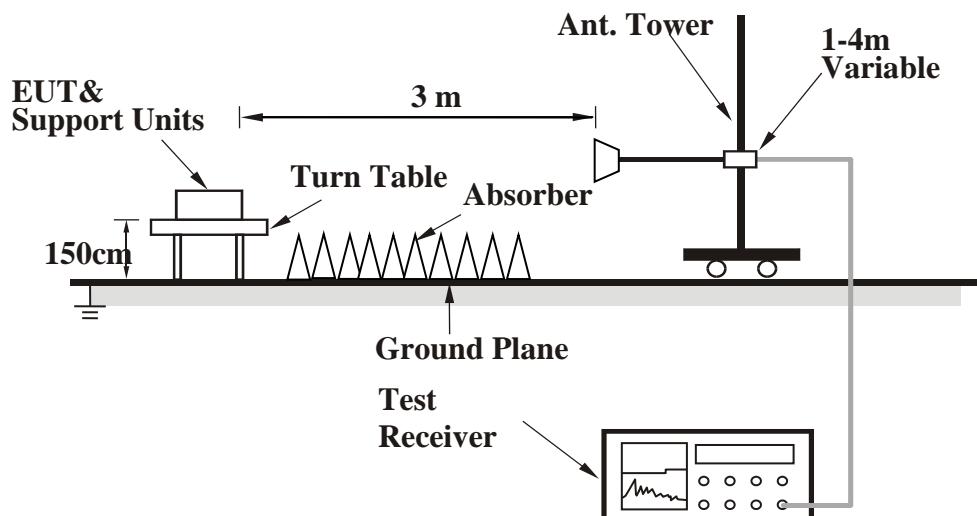
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<Frequency Range 30 MHz ~ 1 GHz >



<Frequency Range above 1 GHz>



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

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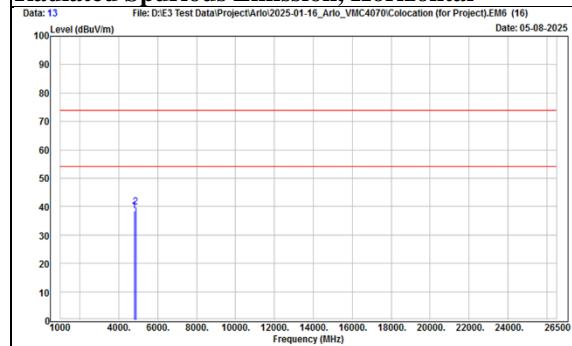
Test Data

Above 1 GHz

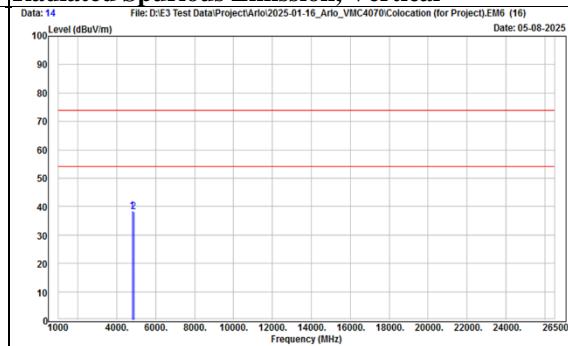
| | | | |
|------|---------------------|---------|---------------------------------|
| Mode | 2.4G 802.11g & LE2M | Channel | 2.4G 802.11g (CH6) & LE2M (CH0) |
|------|---------------------|---------|---------------------------------|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | * | 4804 | 35.82 | 2.63 | 38.45 | 74 | -35.55 | PK |
| | | 4874 | 37.15 | 2.66 | 39.81 | 74 | -34.19 | PK |
| Vertical | * | 4804 | 35.74 | 2.63 | 38.37 | 74 | -35.63 | PK |
| | | 4874 | 35.65 | 2.66 | 38.31 | 74 | -35.69 | PK |

Co-location, 2.4G 802.11g (Ch6) & LE2M (Ch0) Radiated Spurious Emission, Horizontal



Co-location, 2.4G 802.11g (Ch6) & LE2M (Ch 0) Radiated Spurious Emission, Vertical



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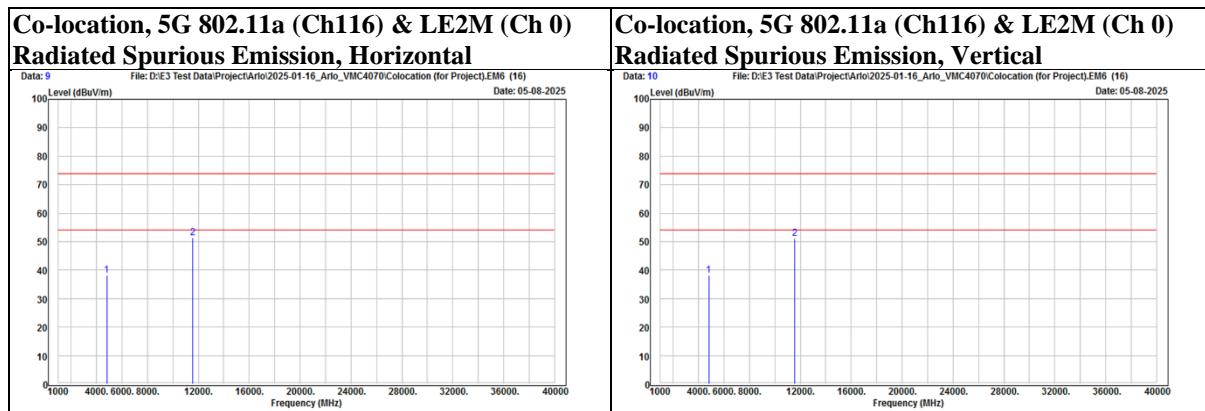
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| | | | |
|------|-------------------|---------|------------------------------|
| Mode | 5G 802.11a & LE2M | Channel | 802.11a (CH116) & LE2M (CH0) |
|------|-------------------|---------|------------------------------|

| Polarization | Notation @ | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|------------|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| Horizontal | | 4804 | 35.66 | 2.63 | 38.29 | 74 | -35.71 | PK |
| | | 11570 | 32.45 | 19.03 | 51.48 | 74 | -22.52 | PK |
| Vertical | | 4804 | 35.54 | 2.63 | 38.17 | 74 | -35.83 | PK |
| | | 11570 | 32.02 | 19.03 | 51.05 | 74 | -22.95 | PK |



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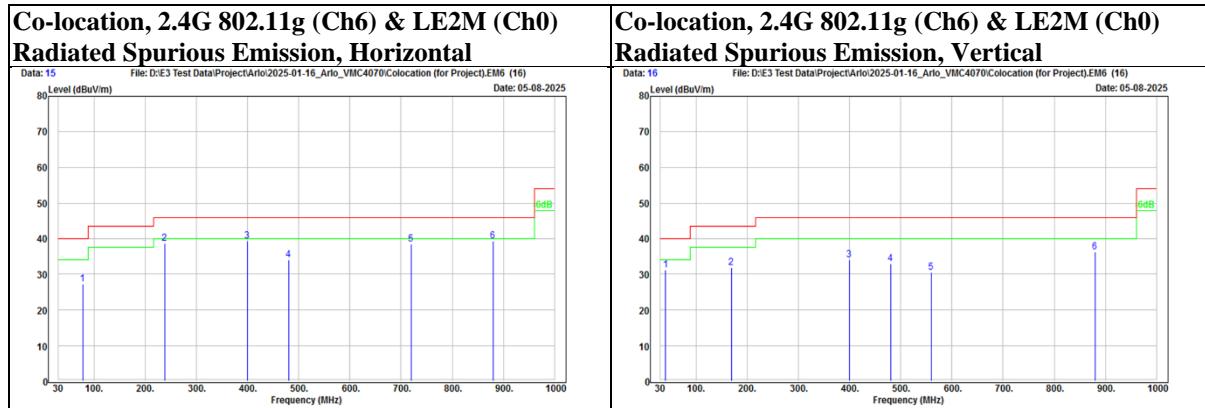
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Below 1 GHz

| | | | |
|------|---------------------|---------|---------------------------------|
| Mode | 2.4G 802.11g & LE2M | Channel | 2.4G 802.11g (CH6) & LE2M (CH0) |
|------|---------------------|---------|---------------------------------|

| Polarization | Notation | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|----------|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| Horizontal | | 77.53 | 51.82 | -24.51 | 27.31 | 40 | -12.69 | PK |
| | | 237.58 | 60.04 | -21.36 | 38.68 | 46 | -7.32 | PK |
| | | 399.57 | 55.56 | -16.15 | 39.41 | 46 | -6.59 | PK |
| | | 480.08 | 48.04 | -13.96 | 34.08 | 46 | -11.92 | PK |
| | | 719.67 | 47.24 | -8.68 | 38.56 | 46 | -7.44 | PK |
| | | 879.72 | 45.71 | -6.27 | 39.44 | 46 | -6.56 | PK |
| Vertical | | 40.67 | 52.72 | -21.46 | 31.26 | 40 | -8.74 | PK |
| | | 168.71 | 52.26 | -20.36 | 31.9 | 43.5 | -11.6 | PK |
| | | 399.57 | 50.17 | -16.15 | 34.02 | 46 | -11.98 | PK |
| | | 480.08 | 47.01 | -13.96 | 33.05 | 46 | -12.95 | PK |
| | | 559.62 | 42.76 | -12.17 | 30.59 | 46 | -15.41 | PK |
| | | 879.72 | 42.48 | -6.27 | 36.21 | 46 | -9.79 | PK |


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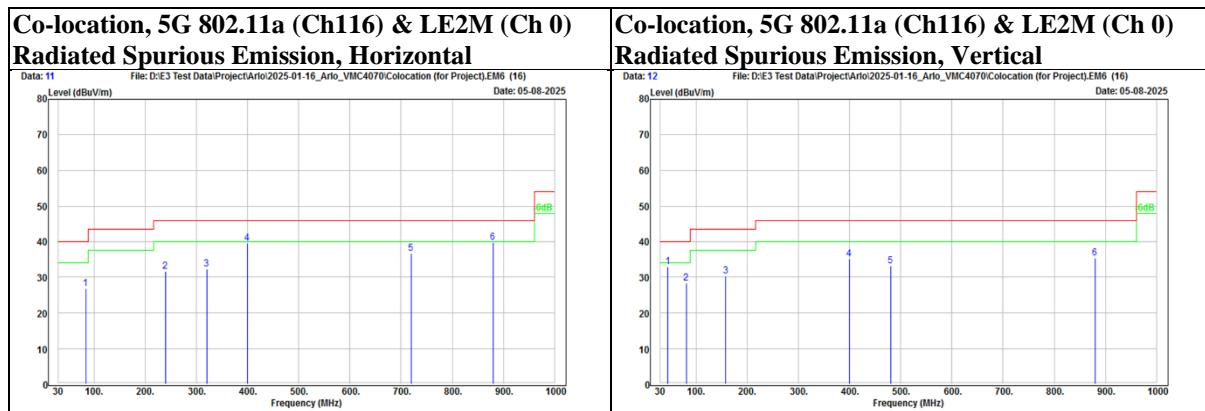
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| | | | |
|------|-------------------|---------|---------------------------------|
| Mode | 5G 802.11a & LE2M | Channel | 5G 802.11a (Ch116) & LE2M (Ch0) |
|------|-------------------|---------|---------------------------------|

| Polarization | Notation @ | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------|------------|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| Horizontal | | 83.35 | 52.78 | -25.98 | 26.8 | 40 | -13.2 | PK |
| | | 239.52 | 52.9 | -21.18 | 31.72 | 46 | -14.28 | PK |
| | | 320.03 | 50.57 | -18.21 | 32.36 | 46 | -13.64 | PK |
| | | 399.57 | 55.64 | -16.15 | 39.49 | 46 | -6.51 | PK |
| | | 719.67 | 45.37 | -8.68 | 36.69 | 46 | -9.31 | PK |
| | | 879.72 | 46.07 | -6.27 | 39.8 | 46 | -6.2 | PK |
| Vertical | | 44.55 | 54.07 | -21.01 | 33.06 | 40 | -6.94 | PK |
| | | 80.44 | 53.78 | -25.4 | 28.38 | 40 | -11.62 | PK |
| | | 158.04 | 50.28 | -19.96 | 30.32 | 43.5 | -13.18 | PK |
| | | 399.57 | 51.22 | -16.15 | 35.07 | 46 | -10.93 | PK |
| | | 480.08 | 47.05 | -13.96 | 33.09 | 46 | -12.91 | PK |
| | | 879.72 | 41.68 | -6.27 | 35.41 | 46 | -10.59 | PK |



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9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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9.3. AC Power Line Conducted Emission

Requirements

| Frequency (MHz) | Conducted limit (dB μ V) | |
|-----------------|------------------------------|---------|
| | 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.
2. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
3. Test data of Result value (dB μ V) = Reading value (dB μ V) + Correction Factor (dB).
4. Test data of Margin(dB) = Result value (dB μ V) - Limit value (dB μ V).
5. Test data of Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).

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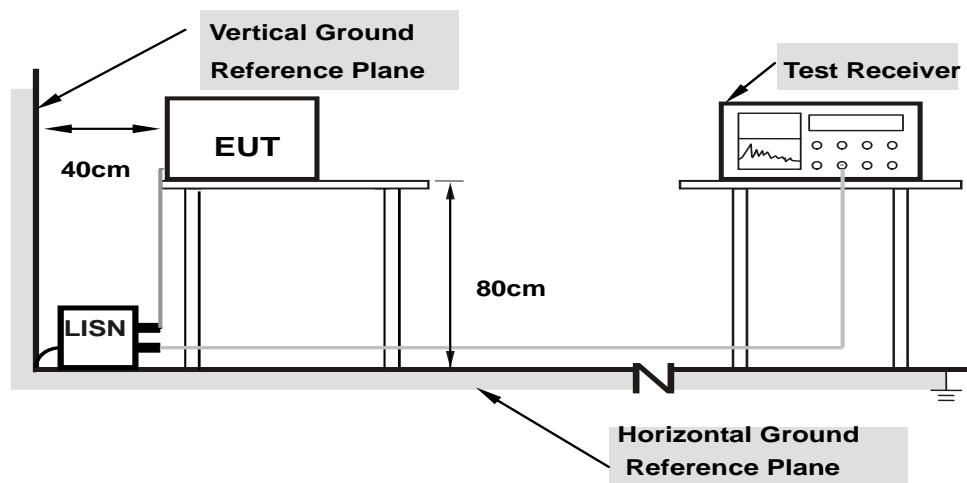
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Test Setup



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

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

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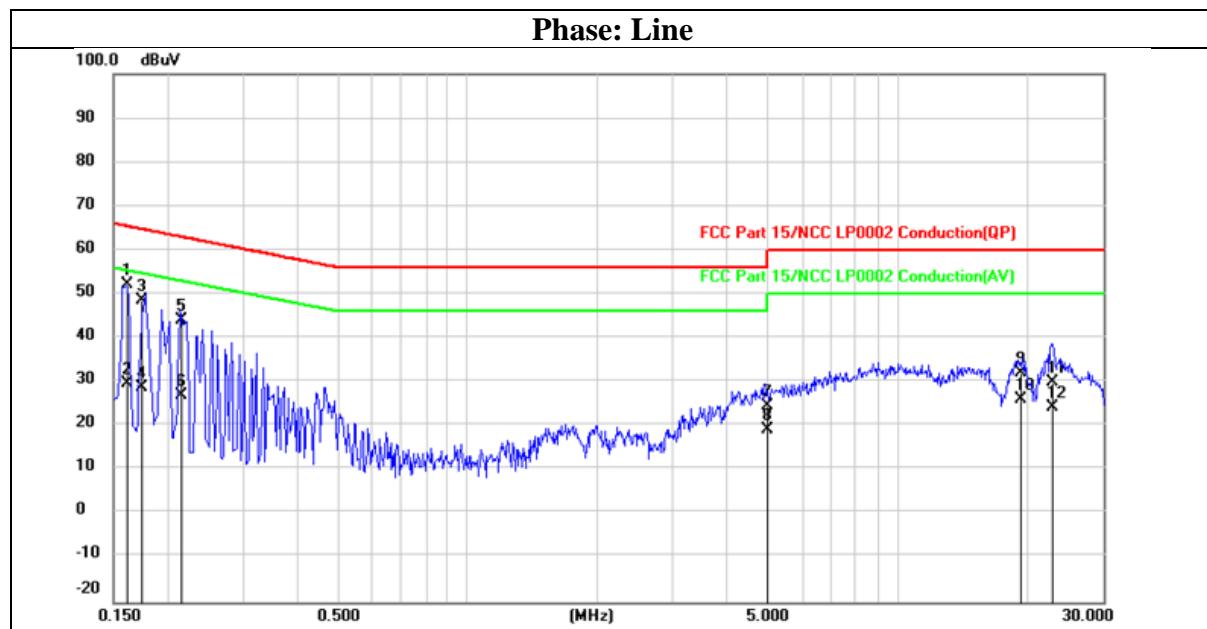
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Test Data

| | | | |
|------|--------------------------------|---------|---------------------------------|
| Mode | Colocation_2.4G 802.11g & LE2M | Channel | 2.4G 802.11g (CH6) & LE2M (CH0) |
|------|--------------------------------|---------|---------------------------------|



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1613 | 42.18 | 9.96 | 52.14 | 65.40 | -13.26 | QP |
| 2 | 0.1613 | 19.73 | 9.96 | 29.69 | 55.40 | -25.71 | AVG |
| 3 | 0.1743 | 38.66 | 9.96 | 48.62 | 64.75 | -16.13 | QP |
| 4 | 0.1743 | 18.91 | 9.96 | 28.87 | 54.75 | -25.88 | AVG |
| 5 | 0.2152 | 34.06 | 9.96 | 44.02 | 63.00 | -18.98 | QP |
| 6 | 0.2152 | 16.90 | 9.96 | 26.86 | 53.00 | -26.14 | AVG |
| 7 | 4.9507 | 14.33 | 10.12 | 24.45 | 56.00 | -31.55 | QP |
| 8 | 4.9507 | 8.94 | 10.12 | 19.06 | 46.00 | -26.94 | AVG |
| 9 | 19.3617 | 21.43 | 10.52 | 31.95 | 60.00 | -28.05 | QP |
| 10 | 19.3617 | 15.61 | 10.52 | 26.13 | 50.00 | -23.87 | AVG |
| 11 | 23.0734 | 19.45 | 10.63 | 30.08 | 60.00 | -29.92 | QP |
| 12 | 23.0734 | 13.53 | 10.63 | 24.16 | 50.00 | -25.84 | AVG |

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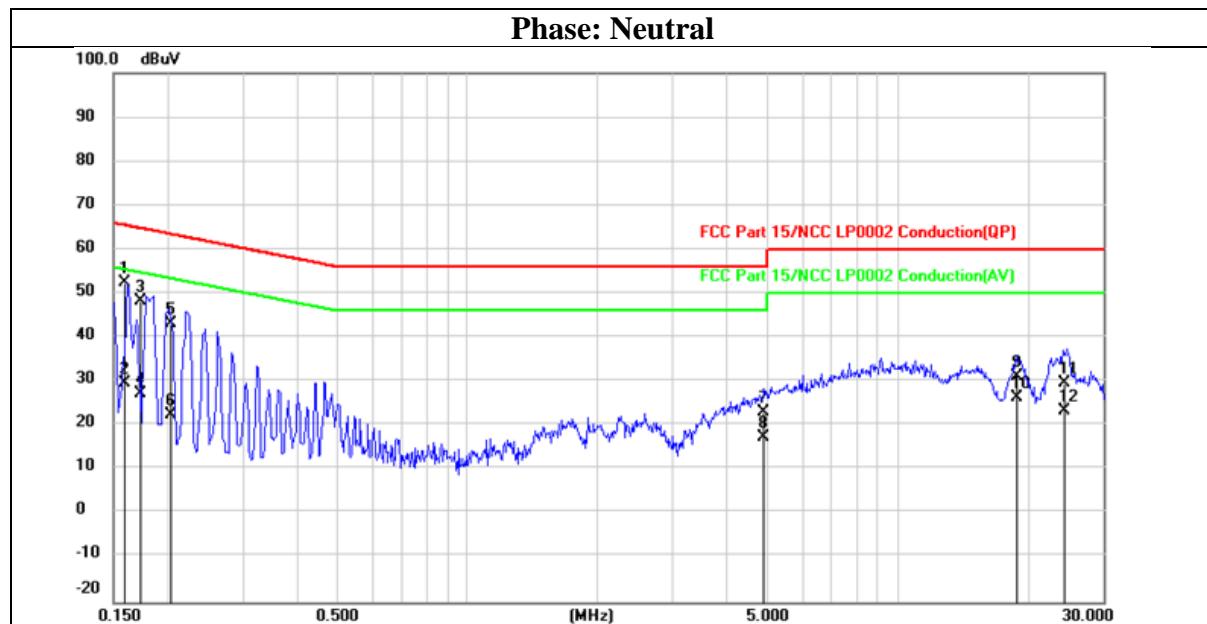
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| | | | |
|------|--------------------------------|---------|---------------------------------|
| Mode | Colocation_2.4G 802.11g & LE2M | Channel | 2.4G 802.11g (CH6) & LE2M (CH0) |
|------|--------------------------------|---------|---------------------------------|



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1583 | 42.38 | 9.94 | 52.32 | 65.55 | -13.23 | QP |
| 2 | 0.1583 | 19.79 | 9.94 | 29.73 | 55.55 | -25.82 | AVG |
| 3 | 0.1731 | 38.43 | 9.94 | 48.37 | 64.81 | -16.44 | QP |
| 4 | 0.1731 | 17.22 | 9.94 | 27.16 | 54.81 | -27.65 | AVG |
| 5 | 0.2045 | 33.11 | 9.94 | 43.05 | 63.43 | -20.38 | QP |
| 6 | 0.2045 | 12.51 | 9.94 | 22.45 | 53.43 | -30.98 | AVG |
| 7 | 4.8857 | 13.11 | 10.08 | 23.19 | 56.00 | -32.81 | QP |
| 8 | 4.8857 | 7.25 | 10.08 | 17.33 | 46.00 | -28.67 | AVG |
| 9 | 18.9239 | 20.76 | 10.48 | 31.24 | 60.00 | -28.76 | QP |
| 10 | 18.9239 | 15.79 | 10.48 | 26.27 | 50.00 | -23.73 | AVG |
| 11 | 24.5957 | 18.87 | 10.65 | 29.52 | 60.00 | -30.48 | QP |
| 12 | 24.5957 | 12.77 | 10.65 | 23.42 | 50.00 | -26.58 | AVG |

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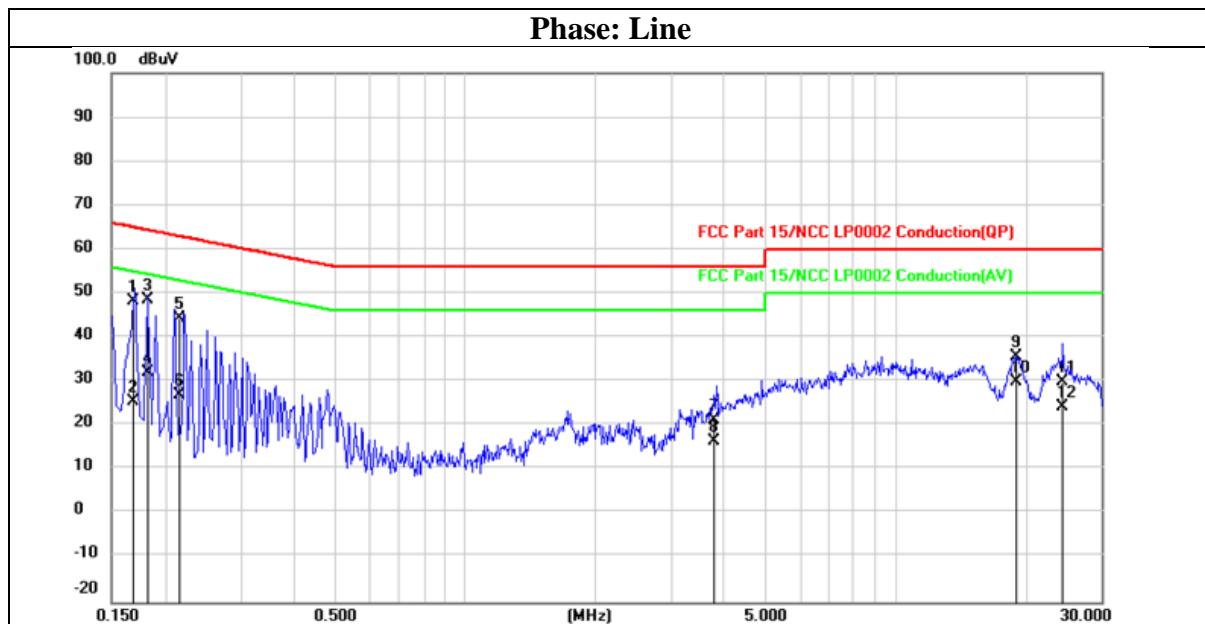
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| | | | |
|------|------------------------------|---------|------------------------------|
| Mode | Colocation_5G 802.11a & LE2M | Channel | 802.11a (CH116) & LE2M (CH0) |
|------|------------------------------|---------|------------------------------|



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1683 | 38.35 | 9.96 | 48.31 | 65.04 | -16.73 | QP |
| 2 | 0.1683 | 15.54 | 9.96 | 25.50 | 55.04 | -29.54 | AVG |
| 3 | 0.1811 | 38.73 | 9.96 | 48.69 | 64.44 | -15.75 | QP |
| 4 | 0.1811 | 22.09 | 9.96 | 32.05 | 54.44 | -22.39 | AVG |
| 5 | 0.2148 | 34.31 | 9.96 | 44.27 | 63.02 | -18.75 | QP |
| 6 | 0.2148 | 17.10 | 9.96 | 27.06 | 53.02 | -25.96 | AVG |
| 7 | 3.8124 | 11.31 | 10.09 | 21.40 | 56.00 | -34.60 | QP |
| 8 | 3.8124 | 6.47 | 10.09 | 16.56 | 46.00 | -29.44 | AVG |
| 9 | 19.1004 | 25.24 | 10.52 | 35.76 | 60.00 | -24.24 | QP |
| 10 | 19.1004 | 19.34 | 10.52 | 29.86 | 50.00 | -20.14 | AVG |
| 11 | 24.4034 | 19.29 | 10.67 | 29.96 | 60.00 | -30.04 | QP |
| 12 | 24.4034 | 13.57 | 10.67 | 24.24 | 50.00 | -25.76 | AVG |

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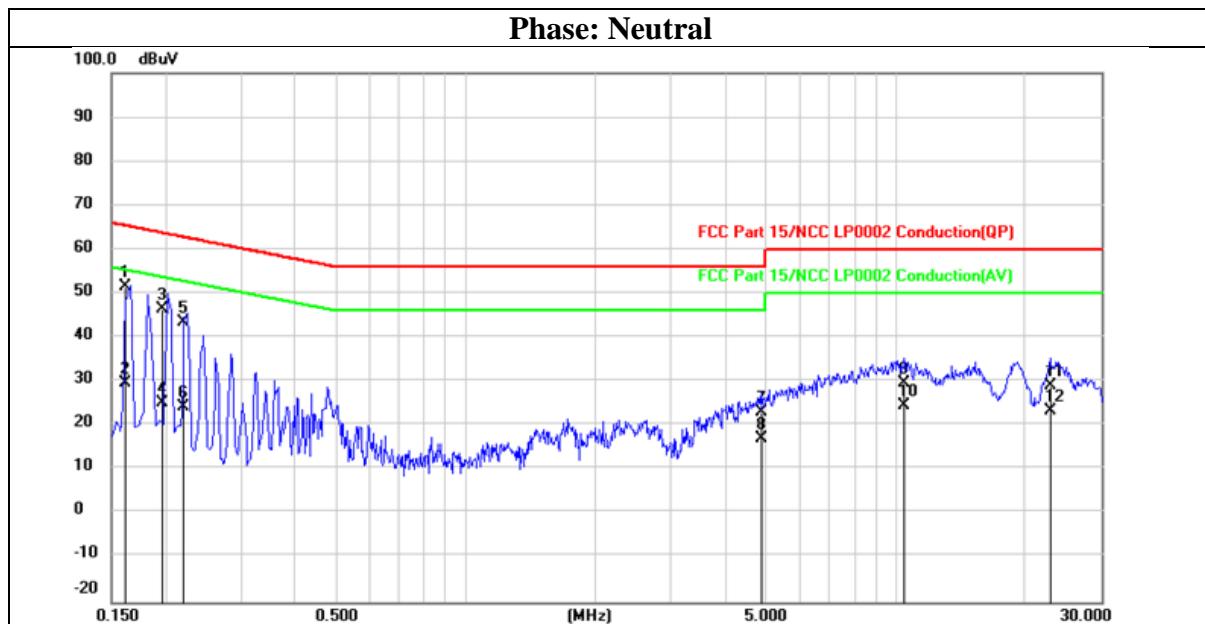
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| | | | |
|------|------------------------------|---------|-----------------------------------|
| Mode | Colocation_5G 802.11a & LE2M | Channel | 2.4G 802.11a (CH116) & LE2M (CH0) |
|------|------------------------------|---------|-----------------------------------|



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|---------|--------|--------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | 0.1614 | 41.74 | 9.94 | 51.68 | 65.39 | -13.71 | QP |
| 2 | 0.1614 | 19.81 | 9.94 | 29.75 | 55.39 | -25.64 | AVG |
| 3 | 0.1977 | 36.65 | 9.94 | 46.59 | 63.71 | -17.12 | QP |
| 4 | 0.1977 | 15.19 | 9.94 | 25.13 | 53.71 | -28.58 | AVG |
| 5 | 0.2214 | 33.59 | 9.94 | 43.53 | 62.77 | -19.24 | QP |
| 6 | 0.2214 | 14.38 | 9.94 | 24.32 | 52.77 | -28.45 | AVG |
| 7 | 4.8739 | 13.03 | 10.08 | 23.11 | 56.00 | -32.89 | QP |
| 8 | 4.8739 | 7.10 | 10.08 | 17.18 | 46.00 | -28.82 | AVG |
| 9 | 10.4366 | 19.46 | 10.25 | 29.71 | 60.00 | -30.29 | QP |
| 10 | 10.4366 | 14.21 | 10.25 | 24.46 | 50.00 | -25.54 | AVG |
| 11 | 22.9076 | 18.42 | 10.60 | 29.02 | 60.00 | -30.98 | QP |
| 12 | 22.9076 | 12.66 | 10.60 | 23.26 | 50.00 | -26.74 | AVG |

END OF REPORT

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