

RED-EMC Test Report

Report No. : 1812C40196912501E

Applicant : Zhejiang Lingzhu Technology Co., Ltd.

Address : Room 302, No 1 Building Huace Center, Xihu
District, Hangzhou City, Zhejiang
Province, China

Product Name : Smart Camera

Report Date : Apr. 28, 2025

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Zhejiang Lingzhu Technology Co., Ltd.
Manufacturer : Zhejiang Lingzhu Technology Co., Ltd.
Product Name : Smart Camera
Model No. : SC319-WBR8, SC319-WBR8A, SC319-WBR8B, SC319-WBR8C,
SC319-WBR8D, SC319-WBR8E, SC319-WBR8F, SC319-WBR8G
Trade Mark : N/A
Rating(s) : Input: 5V=2A
Test Standard(s) : ETSI EN 301 489-1 V2.2.3 (2019-11)
ETSI EN 301 489-17 V3.3.1 (2024-11)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Dec. 26, 2024

Date of Test: Dec. 26, 2024 to Apr. 15, 2025

Prepared By: 

(Lene Chen)

Approved & Authorized Signer: 

(KingKong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Revision History

| Report Version | Description | Issued Date |
|----------------|-----------------|---------------|
| R00 | Original Issue. | Apr. 28, 2025 |
| | | |
| | | |

Shenzhen Anbotek Compliance Laboratory Limited

1. General Information

1.1. Client Information

| | | |
|--------------|---|--|
| Applicant | : | Zhejiang Lingzhu Technology Co., Ltd. |
| Address | : | Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China |
| Manufacturer | : | Zhejiang Lingzhu Technology Co., Ltd. |
| Address | : | Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China |
| Factory | : | Shenzhen Interthings Technology Co., Ltd. |
| Address | : | 701, Building 1, Lechuanghui Building, No.1211 Guanguang Road, Longhua District, Shenzhen, China |

1.2. Description of Device (EUT)

| | | |
|---|---|--|
| Product Name | : | Smart Camera |
| Model No. | : | SC319-WBR8, SC319-WBR8A, SC319-WBR8B, SC319-WBR8C, SC319-WBR8D, SC319-WBR8E, SC319-WBR8F, SC319-WBR8G (Note: All samples are the same except the model number, so we prepare "SC319-WBR8" for test only.) |
| Trade Mark | : | N/A |
| Test Power Supply | : | DC 5V from adapter input AC 230V/50Hz |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | Model: BS10A-0502000EU Input: 100-240V~50/60Hz 0.35A Max. Output: 5.0V=2.0A 10.0W |
| Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. | | |

1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|--------|--------------|--------------|------------|
| MSCard | Sony | Memory stick | / |

1.4. Description of Test Modes

| Pretest Modes | Descriptions |
|---------------|--|
| TM1 | Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |
| TM2 | Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

1.5. Measurement Uncertainty

| Parameter | Uncertainty |
|--|--------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz) | 3.2dB |
| Radiated emissions (30MHz~1000MHz) | Horizontal: 3.70dB; Vertical: 4.42dB |
| Radiated emissions (above 1GHz) | 1G-6GHz: 4.64dB; 6G-18GHz: 4.82dB |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

1.6. Test Summary

| Test Items | Test Modes | Status |
|---|------------|--------|
| Conducted emissions (AC power port) | Mode1,2 | P |
| Radiated emissions (30MHz-1GHz) | Mode1,2 | P |
| Radiated emissions (above 1GHz) | Mode1,2 | P |
| Harmonic current emissions | / | N |
| Voltage fluctuations and flicker | Mode1,2 | P |
| Electrostatic discharge | Mode1,2 | P |
| Radio frequency electromagnetic field (80 MHz to 6 000 MHz) | Mode1,2 | P |
| Fast transients, common mode (AC power port) | Mode1,2 | P |
| Surges (AC power port) | Mode1,2 | P |
| Radio frequency, common mode 0,15 MHz to 80 MHz (AC power port) | Mode1,2 | P |
| Voltage dips and interruptions | Mode1,2 | P |
| Note: P: Pass N: N/A, not applicable | | |

1.7. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.8. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.9. EMS Performance Criteria

Performance Criteria for ETSI EN 301 489-1 V2.2.3 (2019-11)

Continuous phenomena:

During the test, the equipment shall:

- continue to operate as intended;
- not unintentionally transmit;
- not unintentionally change its operating state;
- not unintentionally change critical stored data.

Continuous and non-continuous operation

Latency is the time delay between the initiation and the completion of operation of the EUT.

Correct functioning requires completing the relevant operation within the maximum latency time.

Where the maximum latency is specified in the applicable harmonised radio standard (in the wanted performance criterion, or an acknowledge requirement), that value shall be used.

Where this is not the case, then the maximum latency is that required by the intended use of the EUT.

Operating modes

Where the EUT has more than one mode of operation (see clause 4.4.1), an unplanned transition from one mode to another is considered as an unintentional response. The EUT shall be tested in all modes to confirm there are no such unintentional responses.

Transient phenomena:

For all ports and transient phenomena with the exception described below, the following applies:

- The application of the transient phenomena shall not result in a change of the mode of operation (e.g. unintended transmission) or the loss of critical stored data.
- After application of the transient phenomena, the equipment shall operate as intended.

For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:

- For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.
- For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

Continuous and non-continuous operation

Latency is the time delay between the initiation and the completion of operation of the EUT.

Correct functioning requires completing the relevant operation within the maximum latency time.

Where the maximum latency is specified in the applicable harmonised radio standard (in the wanted performance criterion, or an acknowledge requirement), that value shall be used.

Where this is not the case, then the maximum latency is that required by the intended use of the EUT.

Operating modes

Where the EUT has more than one mode of operation (see clause 4.4.1), an unplanned transition from one mode to another is considered as an unintentional response. The EUT shall be tested in all modes to confirm there are no such unintentional responses.

Performance Criteria for ETSI EN 301 489-17 V3.3.1 (2024-09)

General performance criteria

The performance criteria are:

- performance criteria A for immunity tests with phenomena of a continuous nature;
- performance criteria B for immunity tests with phenomena of a transient nature;
- performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following clauses.

Performance criteria overview
Table 2: Performance criteria

| Criteria | During test | After test(i.e. as a result of the application of the test) |
|--|--|---|
| A | Shall operate as intended.(See note).Shall be no loss of function.Shall be no unintentional transmissions. | Shall operate as intended.Shall be no degradation of performance.Shall be no loss of function.Shall be no loss of critical stored data. |
| B | May be loss of function. | Functions shall be self-recoverable.Shall operate as intended after recovering.Shall be no loss of critical stored data. |
| C | May be loss of function. | Functions shall be recoverable by the operator.Shall operate as intended after recovering.Shall be no loss of critical stored data. |
| <p>NOTE: Operate as intended during the test shall be considered as:</p> <ul style="list-style-type: none"> • For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %. • For equipment that does not support a PER or a FER, (e.g. audio equipment and equipment transmitting sporadic messages) the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment. | | |

The performance criteria A shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur during the test.

Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur during the test.

The performance criteria B shall apply for transient phenomena, except for voltage dips greater than or equal to 100 ms, voltage interruptions of 5 000 ms duration, and surges of 10/700 µs for which performance criteria C shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur as result of the application of the test.

Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur as result of the application of the test.

1.10. Test Equipment List

| Conducted emissions (AC power port) | | | | | | |
|-------------------------------------|---|------------------|-----------|---------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | 2024-09-09 | 2025-09-08 |
| 2 | Three Phase V-type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 3 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A | / | / |
| 4 | EMI Test Receiver(CE2#) | Rohde & Schwarz | ESPI3 | 100926 | 2024-09-09 | 2025-09-08 |

| Radiated emissions (30MHz-1GHz) | | | | | | |
|---------------------------------|---------------------------|------------------|-----------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver(RE2/3#) | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| | | | | | 2025-01-14 | 2026-01-13 |
| 2 | Pre-amplifier | SONOMA | 310N | 186860 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-14 | 2026-01-13 |
| 3 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| 4 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A | / | / |

| Radiated emissions (above 1GHz) | | | | | | |
|---------------------------------|----------------------------|------------------|---------------|-------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver(RE2/3#) | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| | | | | | 2025-01-14 | 2026-01-13 |
| 2 | Pre-amplifier | SONOMA | 310N | 186860 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-14 | 2026-01-13 |
| 3 | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | 345 | 2022-10-23 | 2025-10-22 |
| 4 | EMI Preamplifier | SKET Electronic | LNPA-0118G-45 | SKET-PA-002 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 5 | Double Ridged Horn Antenna | SCHWARZBECK | BBHA 9120D | 02555 | 2022-10-16 | 2025-10-15 |
| 6 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A | / | / |

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| Voltage fluctuations and flicker | | | | | | |
|----------------------------------|-------------------------------|--------------|-----------------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | Programmable AC Power source | IVYTECH | APS-5005A | 632734 | 2024-09-09 | 2025-09-08 |
| 2 | Harmonic and Flicker Analyzer | EMC-PARTNER | HMONICS 1000-1P | 164 | 2024-09-11 | 2025-09-10 |
| 3 | Harmonics-1000 | N/A | Ed.3.0+4.0 | N.A | / | / |

| Electrostatic discharge | | | | | | |
|-------------------------|----------------|--------------|------------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | ESD Simulators | emtest | ESD NX30.1 | 11936 | 2024-03-11 | 2025-03-10 |
| | | | | | 2025-03-03 | 2026-03-02 |

| Radio frequency electromagnetic field (80 MHz to 6 000 MHz) | | | | | | |
|---|-------------------------------------|------------------|-------------------|------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | Signal Generator | Agilent | N5181A | MY50143107 | 2024-01-23 | 2025-01-22 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 2 | Power Meter | Agilent | E4417A | MY45101384 | 2024-01-23 | 2025-01-22 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 3 | Amplifier | Micotop | MPA-80-1000-600 | MPA2110318 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 4 | Amplifier | Micotop | MPA-1000-6000-100 | MPA2110327 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 5 | Log.-Per.-Antenna | Schwarzbeck | VULP 9118E | 01012 | / | / |
| 6 | Microwave Log.-Per. Antenna | Schwarzbeck | STLP 9149 | 00788 | / | / |
| 7 | Power Sensor | KEYSIGHT | E9323A | US40410647 | 2024-01-23 | 2025-01-22 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 8 | Power Sensor | KEYSIGHT | E9323A | MY53100007 | 2024-01-23 | 2025-01-22 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 9 | Electric field Probe | Narda S.T.S /PMM | EP 601 | 811ZX10351 | 2024-01-19 | 2025-01-18 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 10 | Software | EMtrace | EM 3 | / | / | / |
| 11 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 104209 | 2024-09-09 | 2025-09-08 |

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| Fast transients, common mode (AC power port) | | | | | | |
|--|-----------------|--------------|-----------|----------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | Surge Generator | TESEQ | NSG 3060 | 1480 | 2024-01-18 | 2025-01-17 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 2 | CDN | TESEQ | CDN 3061 | 1408 | 2024-01-18 | 2025-01-17 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 3 | EFT-Clamp | PRIM | EFT61004B | PR101142 82 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |

| Surges (AC power port) | | | | | | |
|------------------------|---|--------------|----------------|---------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | Combined Wave Lightning Surge Simulator | 3Ctest | CCS600 | ES377170 2 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 2 | Three Phase Power Coupling Network | 3Ctest | SEPN69100 T | ES080175 7 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 3 | Telecom port surge generator | PMI | TW101 | 190411 | 2024-01-18 | 2025-01-17 |
| | | | | | 2025-01-14 | 2026-01-13 |


| Radio frequency, common mode 0,15 MHz to 80 MHz (AC power port) | | | | | | |
|---|-------------------------------------|-----------------|----------------------|-------------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | CDN | FRANKONIA | CDN - M2+ M3 | A2210178/ 2012 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 2 | 6dB Attenuator | FRANKONIA | DAM 26W | 1172202 | 2024-09-09 | 2025-09-08 |
| 3 | EM-Clamp | FRANKONIA | EMCL-20 | 18101728- 0103 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 4 | Signal Generator | R&S | SMC100A | 104424 | 2024-02-04 | 2025-02-03 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 5 | Software | EMtrace | EM 6 | / | / | / |
| 6 | Power Meter | Agilent | E4419B | GB433127 30 | 2024-02-04 | 2025-02-03 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 7 | Amplifier | Micotop | MPA-0.15- 230-110 | MPA2110 317 | 2024-02-04 | 2025-02-03 |
| | | | | | 2025-01-14 | 2026-01-13 |
| 8 | Power Sensor | Agilent | E9304 | / | 2024-02-04 | 2025-02-03 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 9 | Power Sensor | Agilent | E9304 | MY414986 63 | 2024-02-04 | 2025-02-03 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 10 | CDN | TESEQ | CDN M432- 3LN | 33659 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |
| 11 | Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 104209 | 2024-09-09 | 2025-09-08 |

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| Voltage dips and interruptions | | | | | | |
|--------------------------------|---------------------|--------------|-------------|-------------|------------|--------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | CYCLE SAG Simulator | PRIMA | DRP61011 AG | PR120462 34 | 2024-01-17 | 2025-01-16 |
| | | | | | 2025-01-13 | 2026-01-12 |

Shenzhen Anbotek Compliance Laboratory Limited

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2. Harmonic current emissions

| | |
|-------------------|---------------|
| Test Requirement: | Class A |
| Test Limit: | Not specified |

2.1. Conclusion

Refer to EN IEC 61000-3-2 clause 7.1:

"For the following categories of equipment, limits are not specified in this document:

- lighting equipment with a rated power less than but not equal to 5 W;
- equipment with a rated power of 75 W or less, other than lighting equipment;"

Since the rated power of the EUT is less than above described, it is deemed to comply with the requirement.



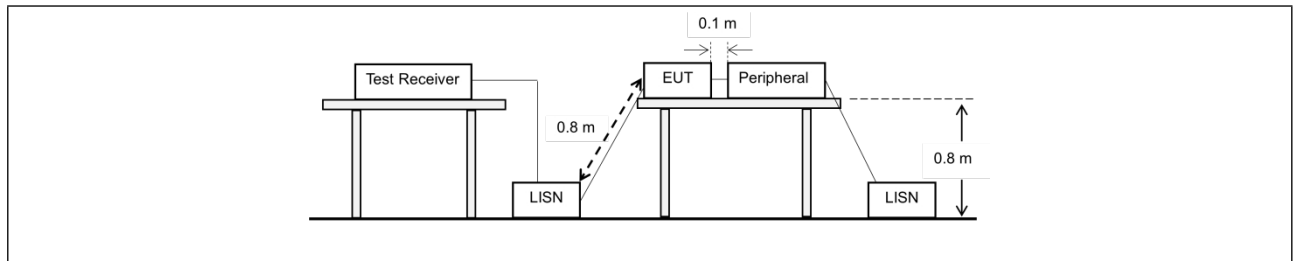
3. Conducted emissions (AC power port)

| | | | |
|-------------------|---|---------------------------|--------------|
| Test Requirement: | EN 301 489-1, clause 8.4 EN 301 489-17, clause 7.1 | | |
| Test Limit: | Frequency Range (MHz) | Detector Type / Bandwidth | Limit (dBuV) |
| | 0.15 to 0.5 | Quasi Peak / 9 kHz | 66 to 56 |
| | 0.5 to 5 | Quasi Peak / 9 kHz | 56 |
| | 5 to 30 | Quasi Peak / 9 kHz | 60 |
| | 0.15 to 0.5 | Average / 9 kHz | 56 to 46 |
| | 0.5 to 5 | Average / 9 kHz | 46 |
| | 5 to 30 | Average / 9 kHz | 50 |
| Test Method: | EN 55032, annex A.3 | | |
| Procedure: | An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Result(dBμV) = Reading(dBμV) + Factor(dB); Over Limit(dB) = Result(dBμV) - Limit(dBμV) | | |

3.1. EUT Operation

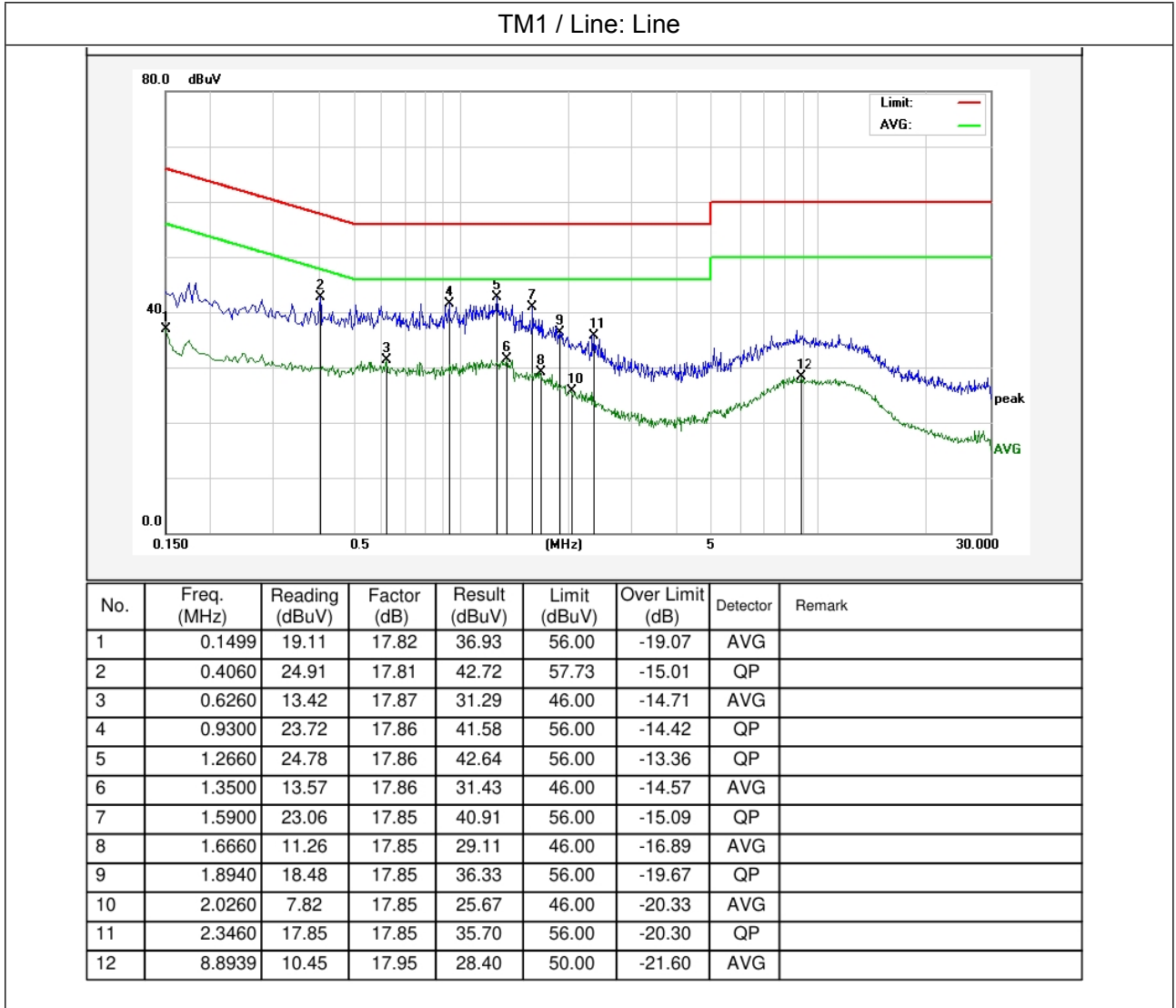
| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

3.2. Test Setup



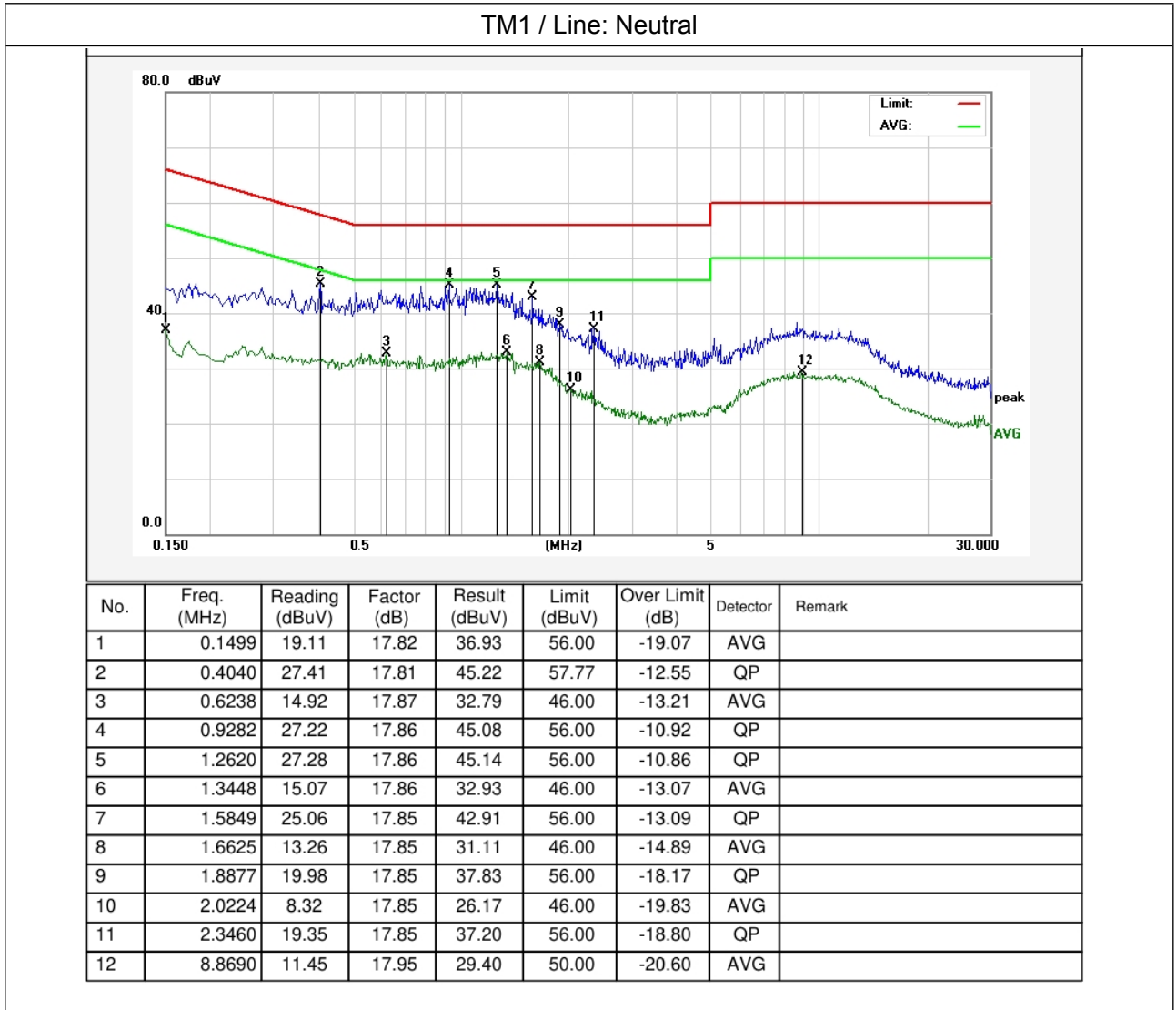
3.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.1 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



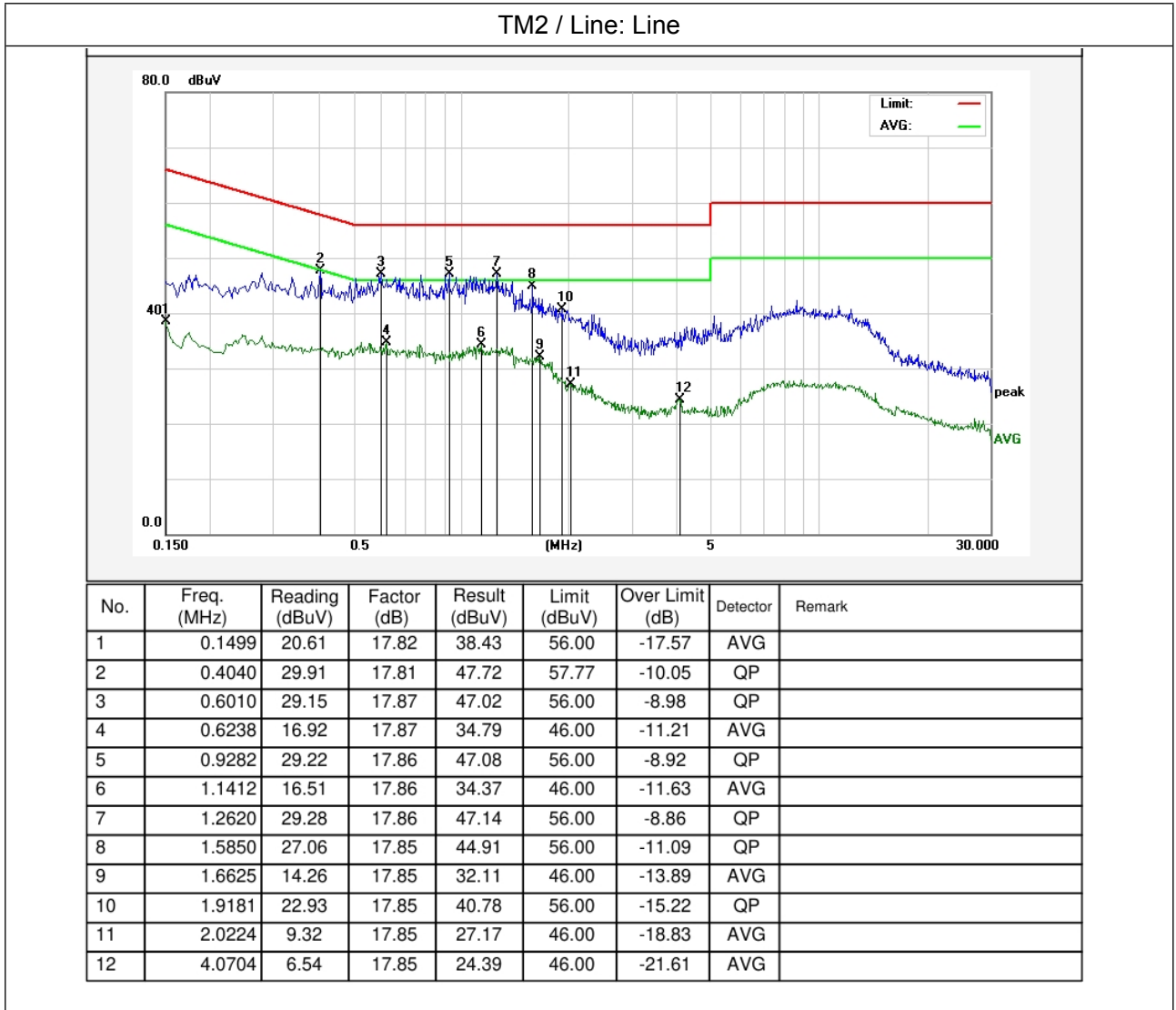
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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.1 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



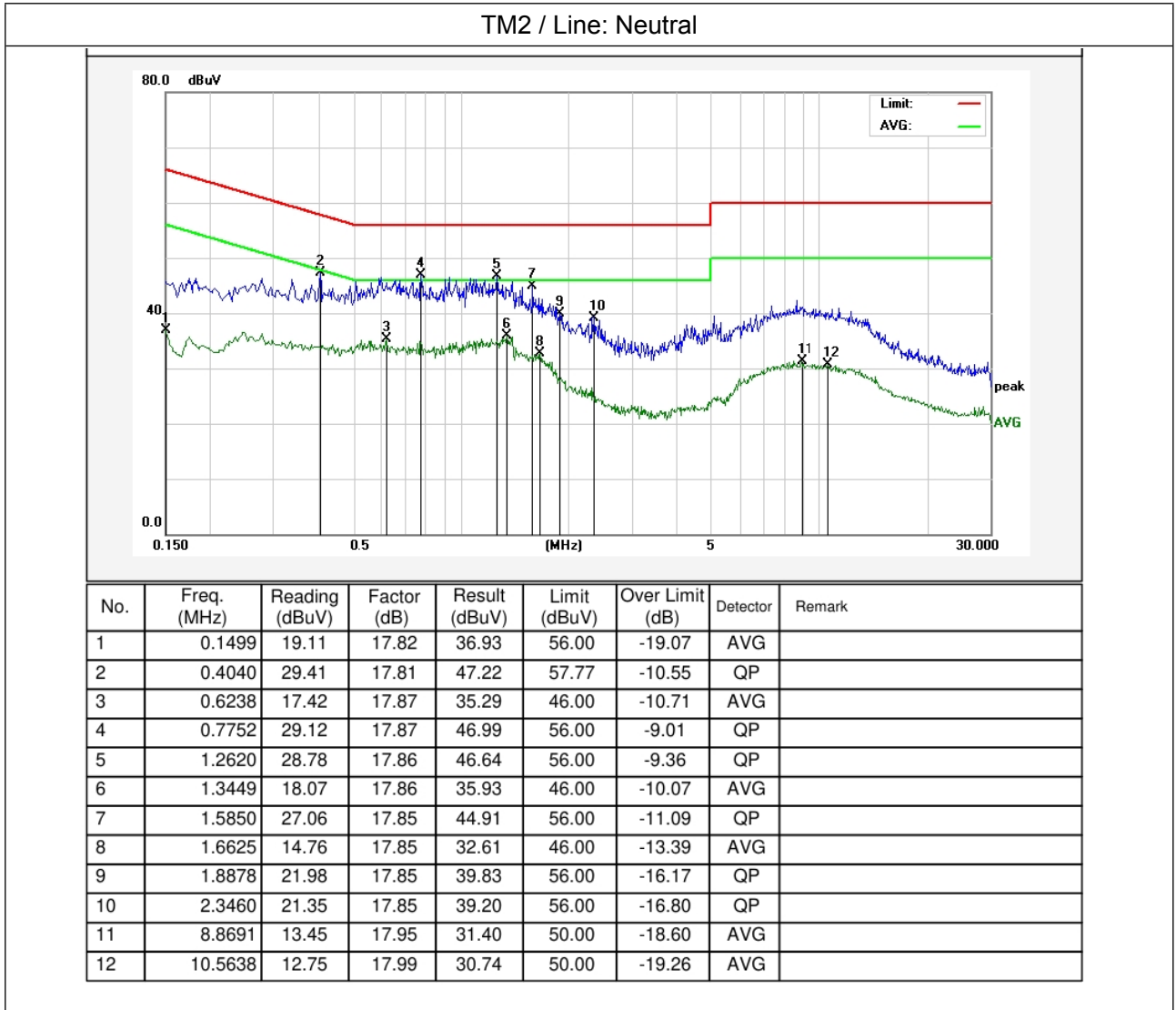
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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.1 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.1 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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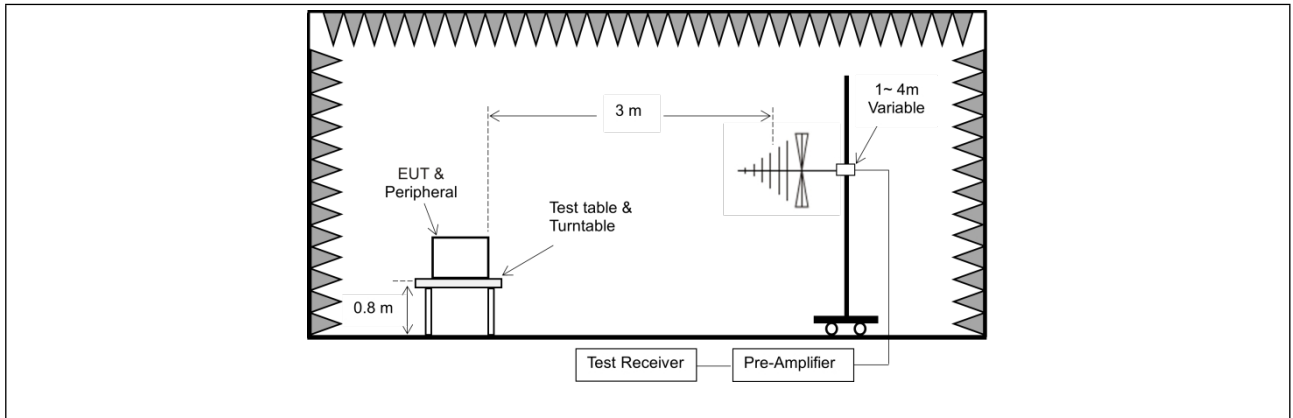
4. Radiated emissions (30MHz-1GHz)

| | | | |
|-------------------|--|-----------------|----------------|
| Test Requirement: | EN 301 489-1, clause 8.2 EN 301 489-17, clause 7.1 | | |
| Test Limit: | FREQUENCY (MHz) | dB(μV/m) At 10m | dB(μV/m) At 3m |
| | 30MHz-230MHz | 30 | 40 |
| | 230MHz-1GHz | 37 | 47 |
| | Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz | | |
| Test Method: | EN 55032, annex A.2 | | |
| Procedure: | An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Result(dBμV/m) = Reading(dBμV) + Factor(dB/m); Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m) | | |

4.1. EUT Operation

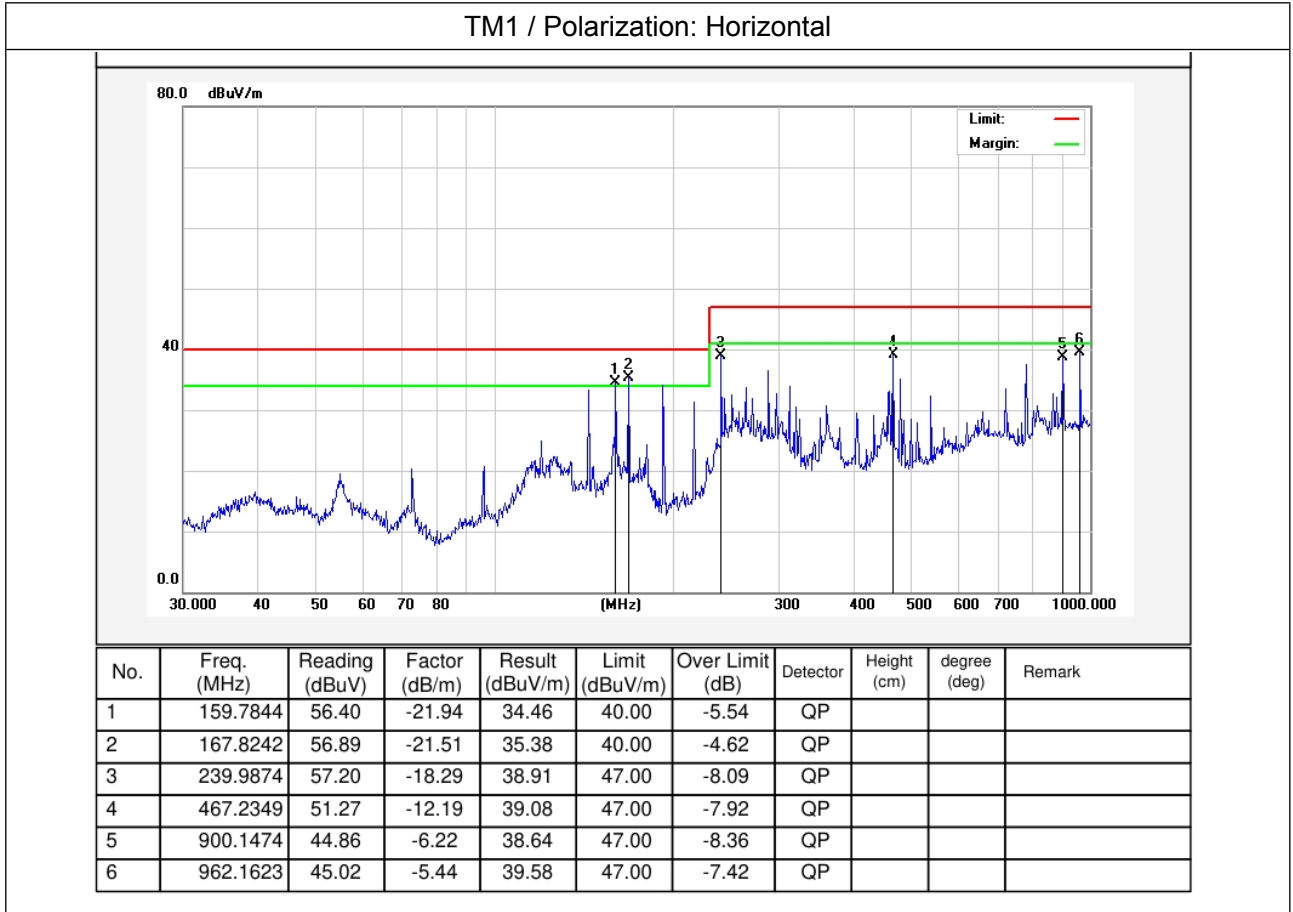
| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

4.2. Test Setup



4.3. Test Data

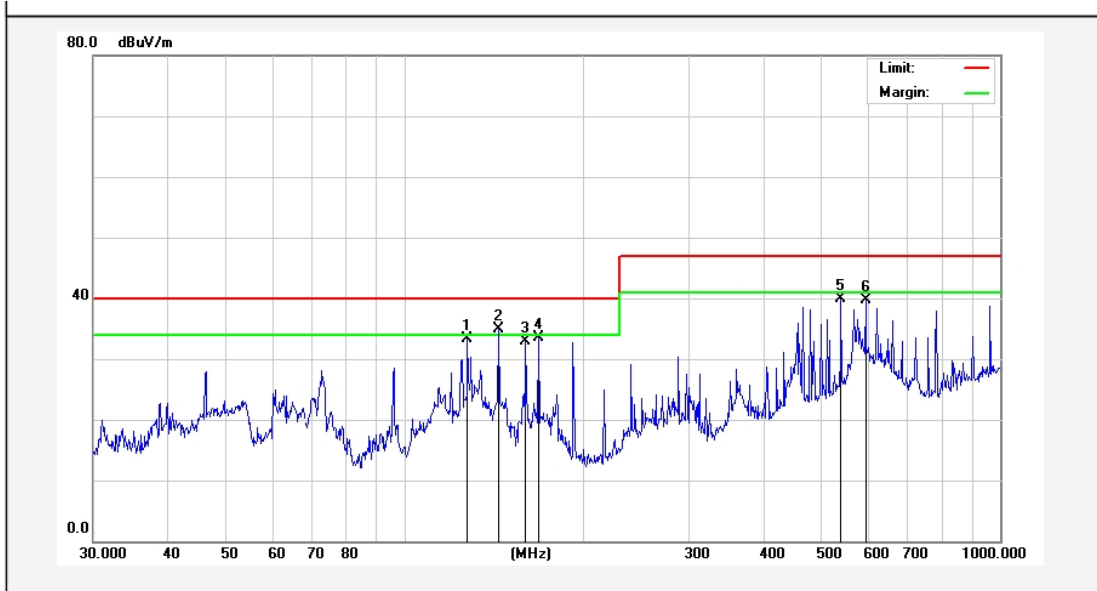
| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

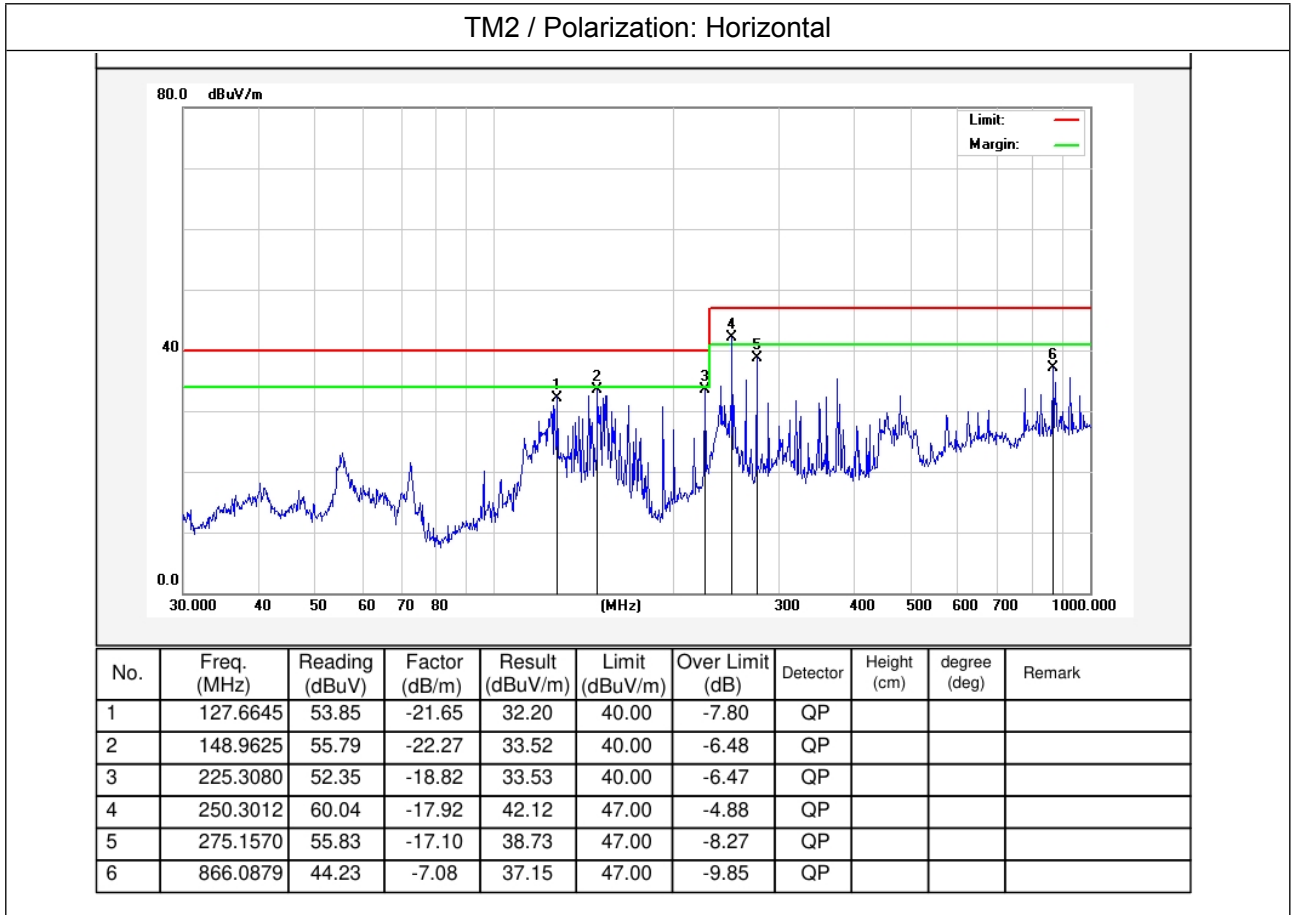
TM1 / Polarization: Vertical



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 127.6645 | 54.89 | -21.65 | 33.24 | 40.00 | -6.76 | QP | | | |
| 2 | 143.8293 | 57.32 | -22.33 | 34.99 | 40.00 | -5.01 | QP | | | |
| 3 | 159.7844 | 54.56 | -21.67 | 32.89 | 40.00 | -7.11 | QP | | | |
| 4 | 167.8241 | 54.70 | -21.24 | 33.46 | 40.00 | -6.54 | QP | | | |
| 5 | 541.3724 | 51.62 | -11.71 | 39.91 | 47.00 | -7.09 | QP | | | |
| 6 | 595.1327 | 49.20 | -9.46 | 39.74 | 47.00 | -7.26 | QP | | | |

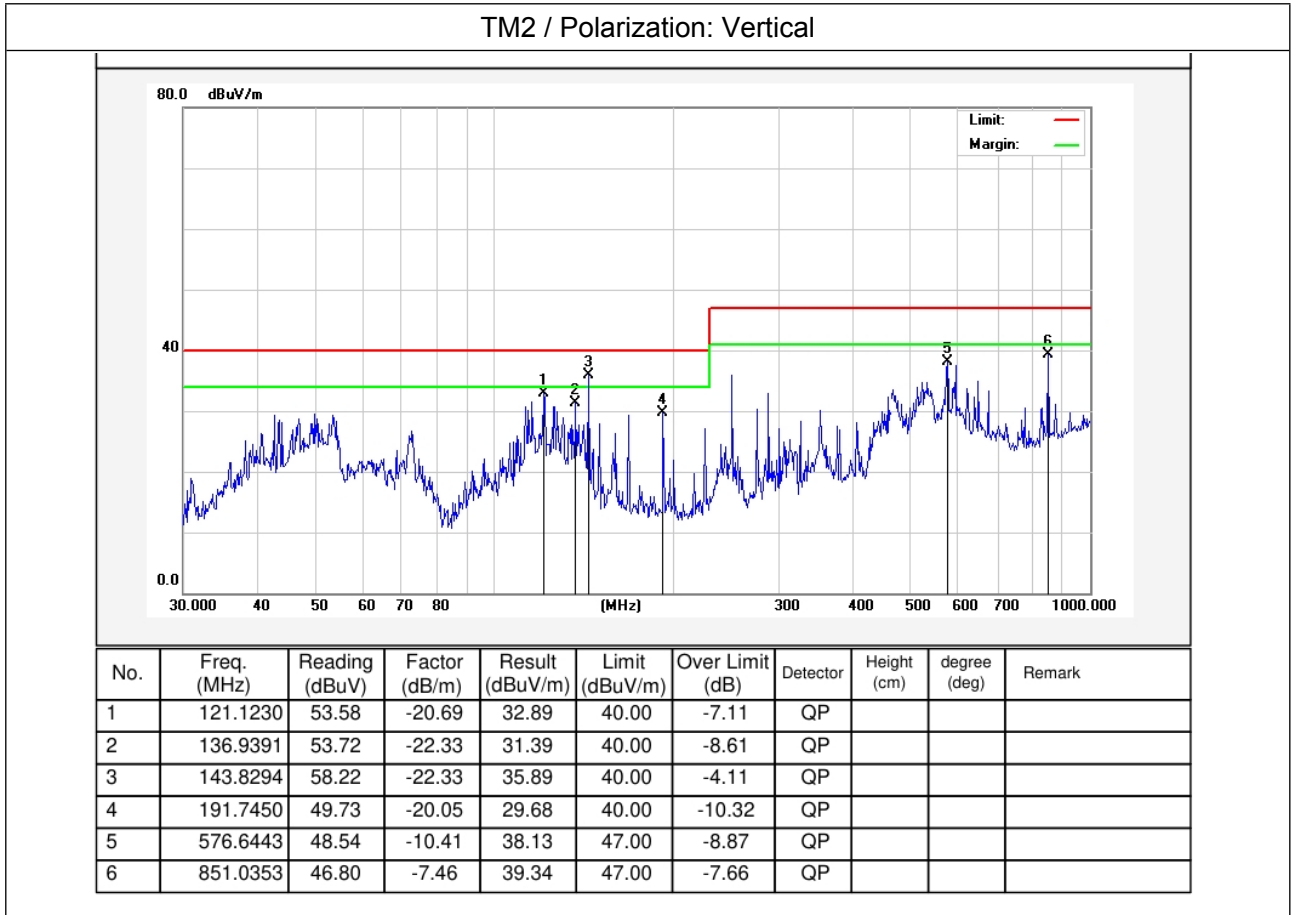
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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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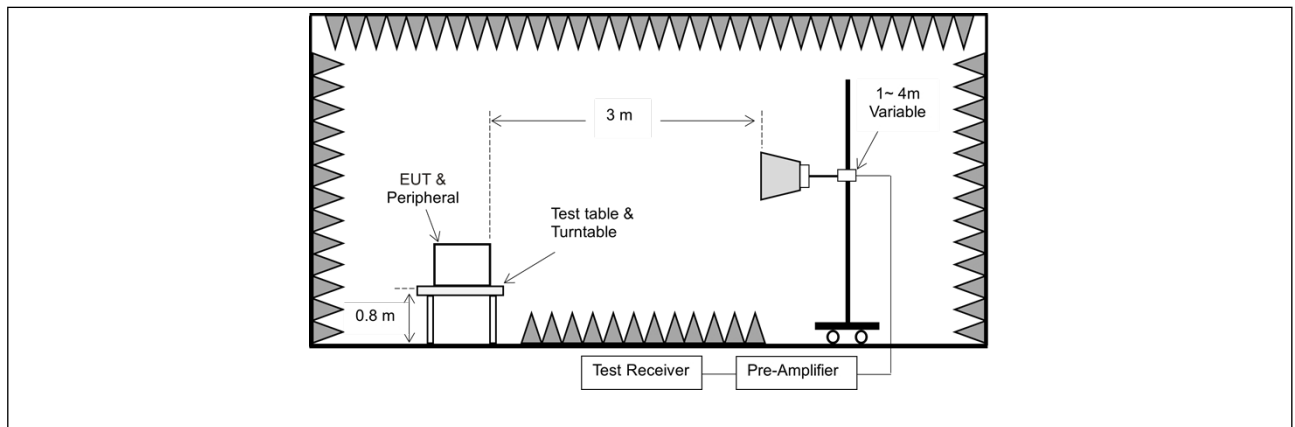
5. Radiated emissions (above 1GHz)

| | | | |
|-------------------|--|--|----------------|
| Test Requirement: | EN 301 489-1, clause 8.2 EN 301 489-17, clause 7.1 | | |
| Test Limit: | Frequency range (MHz) | Radiated emissions limit (dBuV/m) | |
| | | Peak | Average |
| | 1000 to 3000 | 70 | 50 |
| | 3000 to 6000 | 74 | 54 |
| | Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000MHz to 6000MHz | | |
| Test Method: | EN 55032, annex A.2 | | |
| Procedure: | An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities. Remark: Result(dBµV/m) = Reading(dBµV) + Factor(dB/m); Over Limit(dB) = Result(dBµV/m) - Limit(dBµV/m) | | |

5.1. EUT Operation

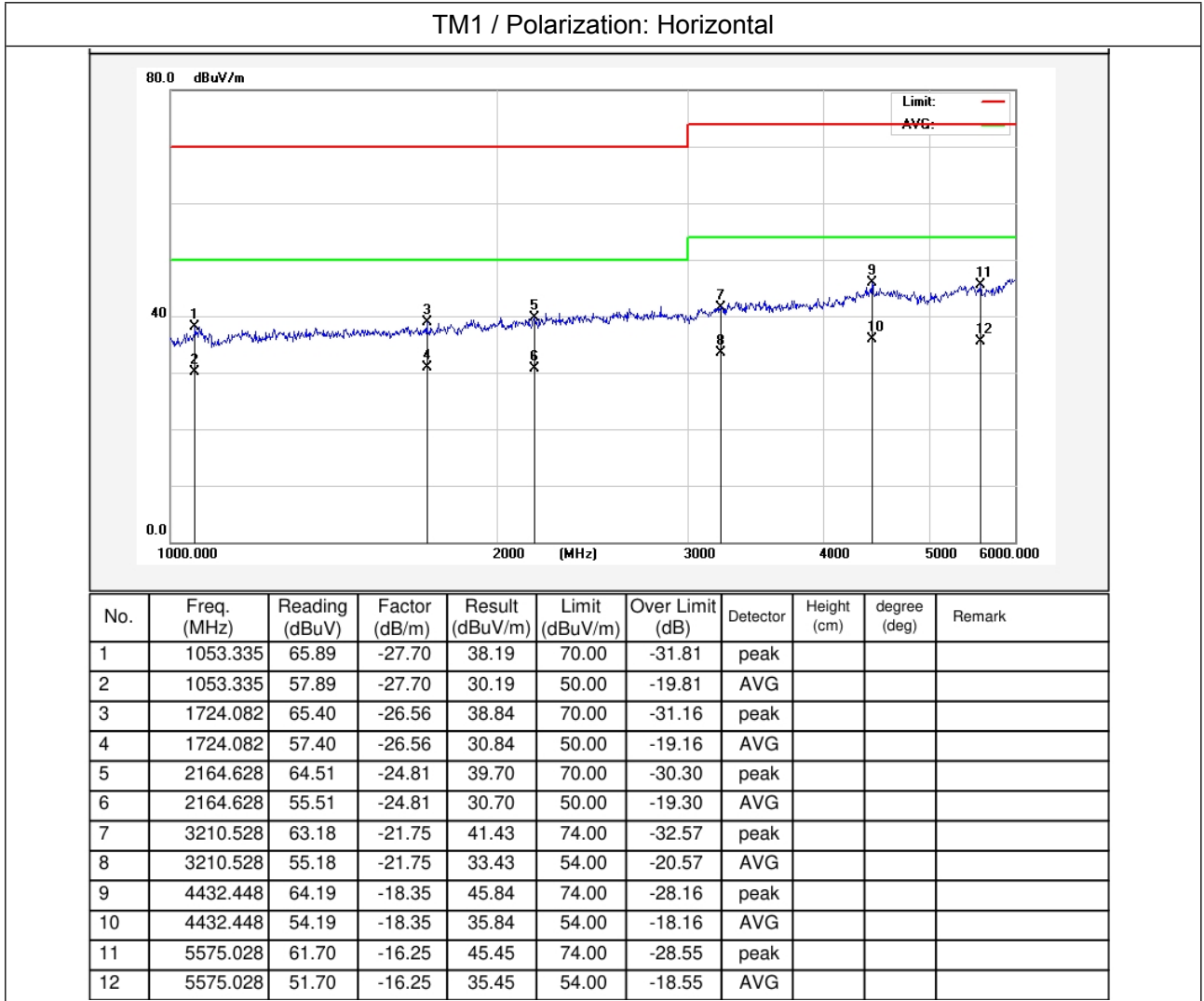
| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

5.2. Test Setup



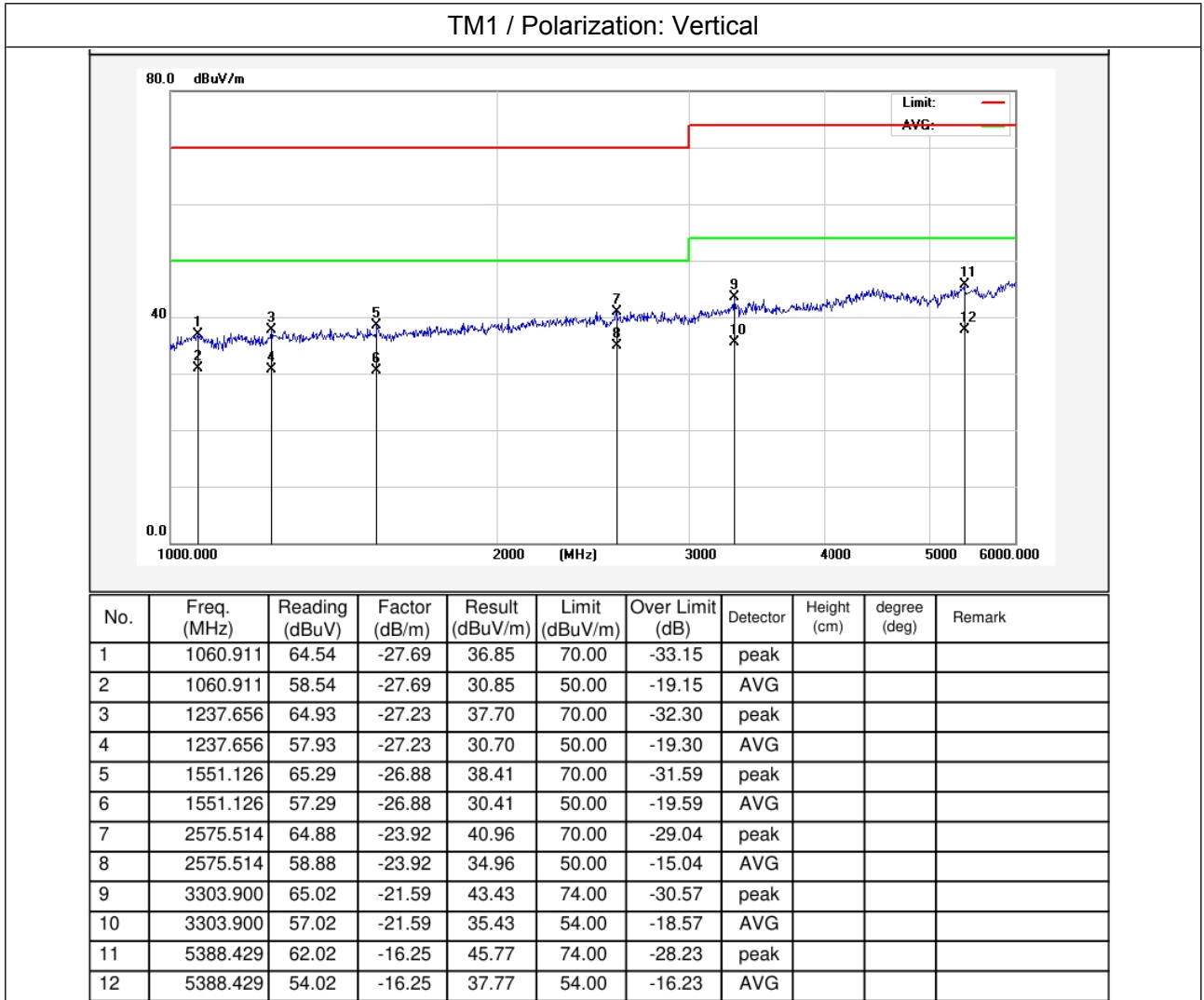
5.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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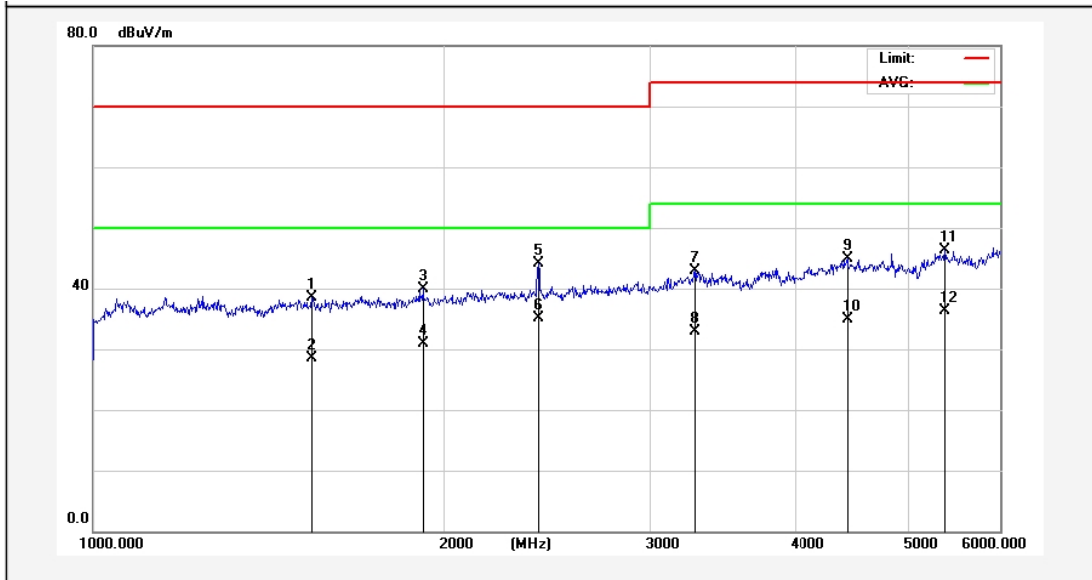
| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

TM2 / Polarization: Horizontal

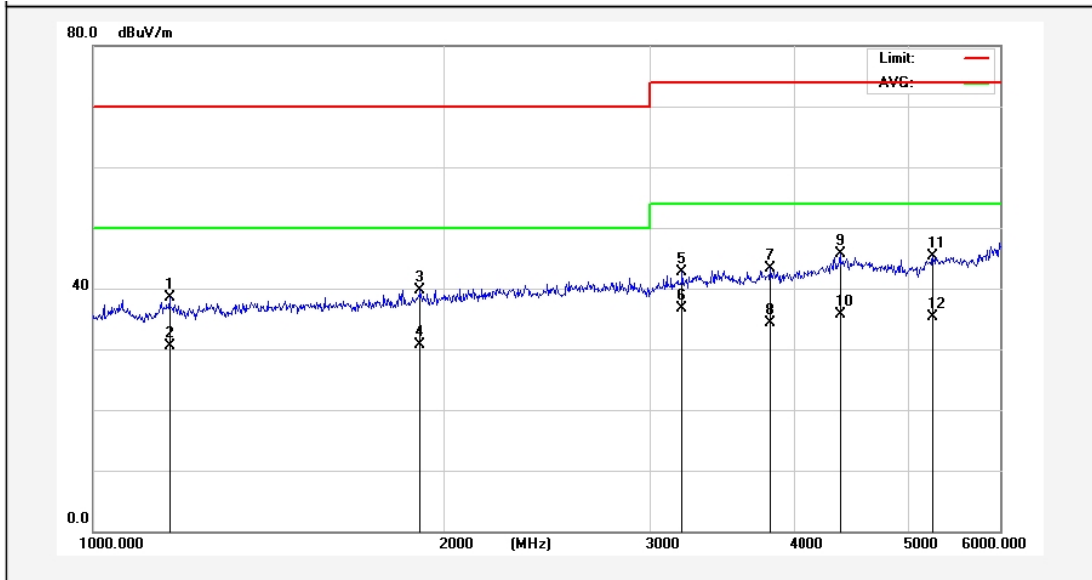


| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 1542.811 | 65.31 | -26.88 | 38.43 | 70.00 | -31.57 | peak | | | |
| 2 | 1542.811 | 55.31 | -26.88 | 28.43 | 50.00 | -21.57 | AVG | | | |
| 3 | 1919.761 | 65.52 | -25.55 | 39.97 | 70.00 | -30.03 | peak | | | |
| 4 | 1919.761 | 56.52 | -25.55 | 30.97 | 50.00 | -19.03 | AVG | | | |
| 5 | 2410.307 | 68.61 | -24.42 | 44.19 | 70.00 | -25.81 | peak | | | |
| 6 | 2410.307 | 59.61 | -24.42 | 35.19 | 50.00 | -14.81 | AVG | | | |
| 7 | 3280.305 | 64.46 | -21.62 | 42.84 | 74.00 | -31.16 | peak | | | |
| 8 | 3280.305 | 54.46 | -21.62 | 32.84 | 54.00 | -21.16 | AVG | | | |
| 9 | 4440.397 | 63.22 | -18.34 | 44.88 | 74.00 | -29.12 | peak | | | |
| 10 | 4440.397 | 53.22 | -18.34 | 34.88 | 54.00 | -19.12 | AVG | | | |
| 11 | 5378.783 | 62.52 | -16.25 | 46.27 | 74.00 | -27.73 | peak | | | |
| 12 | 5378.783 | 52.52 | -16.25 | 36.27 | 54.00 | -17.73 | AVG | | | |

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| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

TM2 / Polarization: Vertical



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1 | 1162.424 | 65.85 | -27.44 | 38.41 | 70.00 | -31.59 | peak | | | |
| 2 | 1162.424 | 57.85 | -27.44 | 30.41 | 50.00 | -19.59 | AVG | | | |
| 3 | 1909.469 | 65.30 | -25.57 | 39.73 | 70.00 | -30.27 | peak | | | |
| 4 | 1909.469 | 56.30 | -25.57 | 30.73 | 50.00 | -19.27 | AVG | | | |
| 5 | 3199.044 | 64.46 | -21.77 | 42.69 | 74.00 | -31.31 | peak | | | |
| 6 | 3199.044 | 58.46 | -21.77 | 36.69 | 54.00 | -17.31 | AVG | | | |
| 7 | 3806.281 | 63.66 | -20.42 | 43.24 | 74.00 | -30.76 | peak | | | |
| 8 | 3806.281 | 54.66 | -20.42 | 34.24 | 54.00 | -19.76 | AVG | | | |
| 9 | 4377.202 | 64.17 | -18.47 | 45.70 | 74.00 | -28.30 | peak | | | |
| 10 | 4377.202 | 54.17 | -18.47 | 35.70 | 54.00 | -18.30 | AVG | | | |
| 11 | 5254.944 | 61.74 | -16.50 | 45.24 | 74.00 | -28.76 | peak | | | |
| 12 | 5254.944 | 51.74 | -16.50 | 35.24 | 54.00 | -18.76 | AVG | | | |

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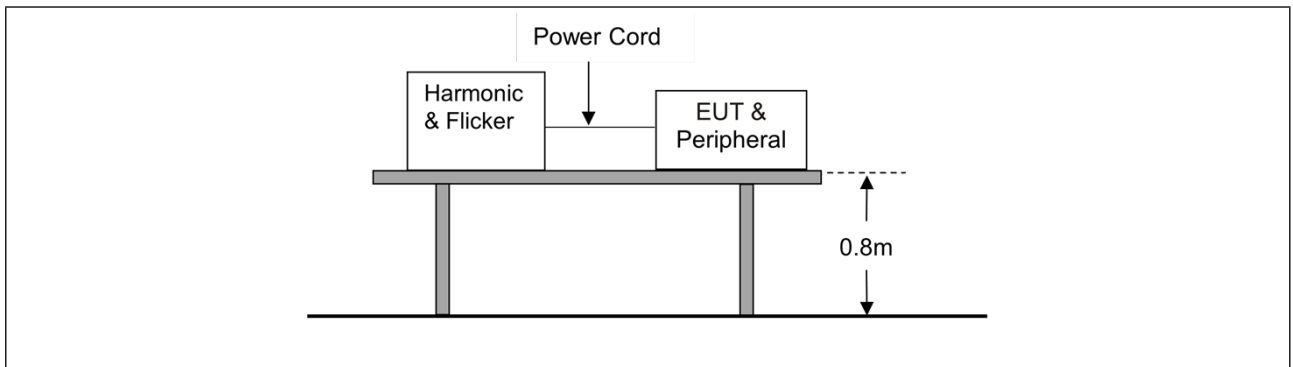
6. Voltage fluctuations and flicker

| | |
|-------------------|----------------------------|
| Test Requirement: | Clause 4 |
| Test Limit: | EN 61000-3-3, Clause 5 |
| Test Method: | EN 61000-3-3:2013+A2: 2021 |

6.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

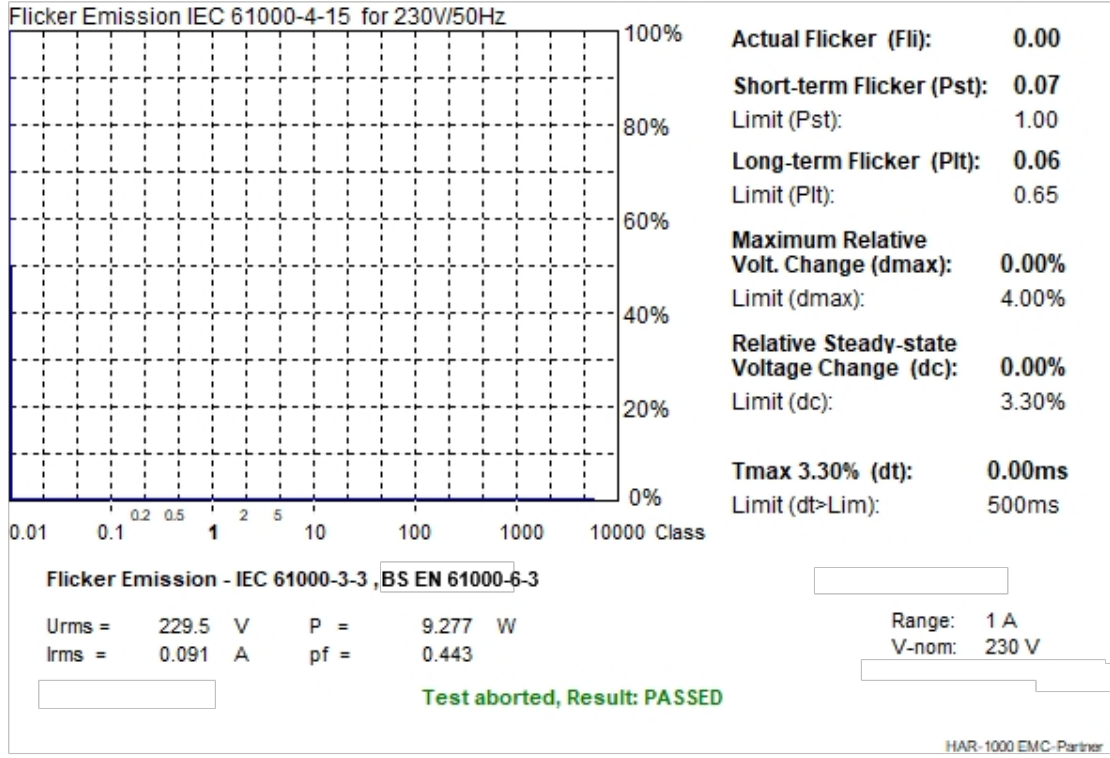
6.2. Test Setup



6.3. Test Data

Note:Only record the worst data in the report.

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 21.5 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



Full Bar : Actual Values
Empty Bar : Maximum Values
Circles : Average Values
Blue : Current , Green : Voltage , Red : Failed

Urms = 229.5V Freq = 50.000 Range: 1 A
Irms = 0.091A Ipk = 0.416A cf = 4.551
P = 9.277W S = 20.96VA pf = 0.443

Test - Time : 10 x 1min = 10min (100 %)

LIN (Line Impedance Network) : L: 0.24ohm +j0.15ohm N: 0.16ohm +j0.10ohm

Limits : Plt : 0.65 Pst : 1.00
 dmax : 4.00 % dc : 3.30 %
 dtLim: 3.30 % dt>Lim: 500ms

Test aborted, Result: PASSED

| | P3s | dmax | dc | dt>Lim |
|---|-------|-------|-------|--------|
| | | [%] | [%] | [ms] |
| 1 | 0.010 | 0.000 | 0.000 | 0.000 |

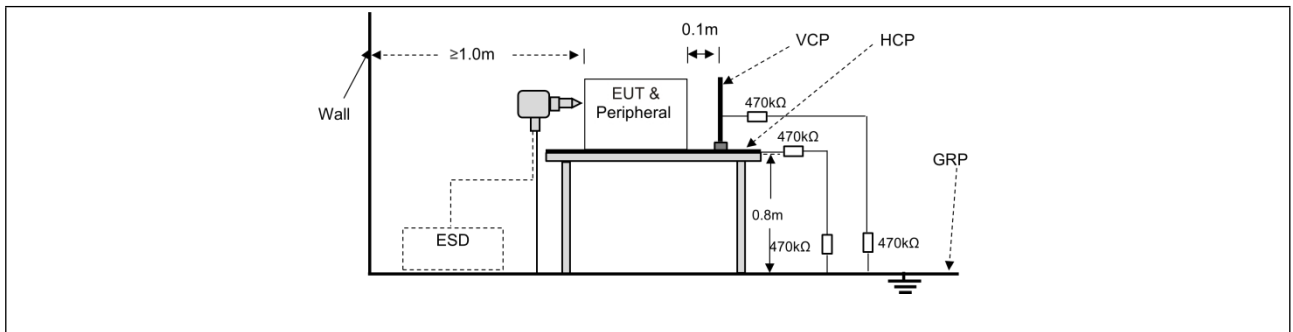
7. Electrostatic discharge

| | |
|-----------------------|---|
| Test Requirement: | EN 301 489-1, clause 9.3 EN 301 489-17, clause 7.2 |
| Test Method: | EN 61000-4-2, clauses 6, 7 and 8 |
| Procedure: | Discharge Impedance: 330Ω/150pF Number of Discharge: Minimum 10 times at each test point Discharge Mode: Single Discharge Discharge Period: 1 second minimum |
| Performance Criteria: | TT(B), TR(B) |

7.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

7.2. Test Setup



7.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 21.2 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Discharge type | Volt (kV) | Polarity | Test Point | Result/ Observations |
|---------------------|-----------|----------|------------|-------------------------|
| Air discharge | 2,4,8 | + | 1 | A |
| Air discharge | 2,4,8 | - | 1 | A |
| Contact discharge | 4 | + | 2 | A |
| Contact discharge | 4 | - | 2 | A |
| Horizontal Coupling | 4 | + | 3 | A |
| Horizontal Coupling | 4 | - | 3 | A |
| Vertical Coupling | 4 | + | 3 | A |
| Vertical Coupling | 4 | - | 3 | A |

- Test Point: 1. All insulated enclosure and seams.
 2. All accessible metal parts of the enclosure.
 3. All side.
 A: No degradation in the performance of the EUT was observed.

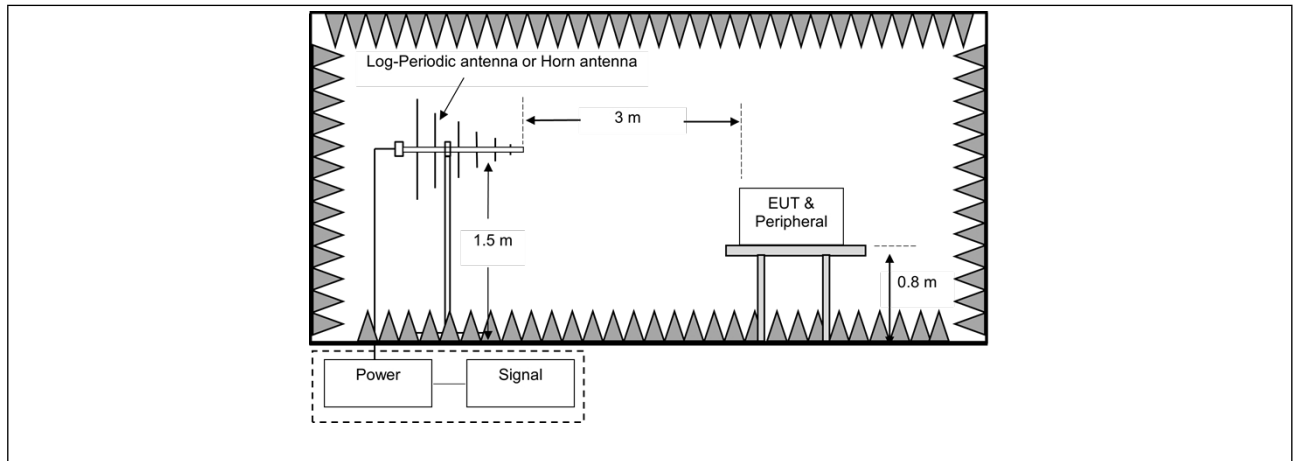
8. Radio frequency electromagnetic field (80 MHz to 6 000 MHz)

| | |
|-----------------------|---|
| Test Requirement: | EN 301 489-1, clause 9.2 EN 301 489-17, clause 7.2 |
| Test Method: | EN 61000-4-3, clauses 6, 7 and 8 |
| Procedure: | Frequency Range: 80MHz to 6GHz Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment |
| Performance Criteria: | CT(A), CR(A) |

8.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

8.2. Test Setup



8.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 22.2 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Frequency | Field Strength (V/m) | EUT face | Dwell time | Result/ Observations |
|------------|----------------------|----------|------------|----------------------|
| 80MHz-6GHz | 3 | Front | 3s | A |
| 80MHz-6GHz | 3 | Back | 3s | A |
| 80MHz-6GHz | 3 | Left | 3s | A |
| 80MHz-6GHz | 3 | Right | 3s | A |
| 80MHz-6GHz | 3 | Top | 3s | A |
| 80MHz-6GHz | 3 | Bottom | 3s | A |


A: No degradation in the performance of the EUT was observed.

Special conditions for EMC immunity tests(Bluetooth/WiFi):

| EUT operating Mode | Max PER During test | PER Limit |
|--------------------|---------------------|-----------|
| TM1 | 1.8% | 10% |
| TM2 | 2.3% | 10% |

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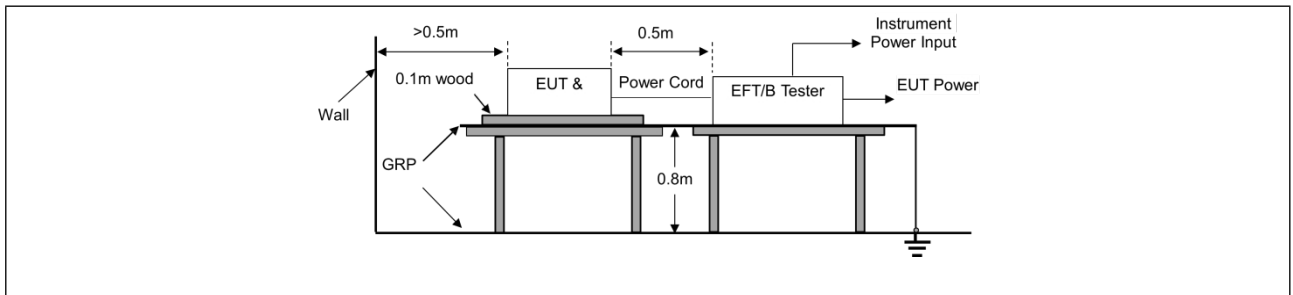
9. Fast transients, common mode (AC power port)

| | |
|-----------------------|---|
| Test Requirement: | EN 301 489-1, clause 9.4 EN 301 489-17, clause 7.2 |
| Test Method: | EN 61000-4-4, clauses 5 |
| Procedure: | Repetition Frequency: 5kHz Burst Period: 300ms |
| Performance Criteria: | TT(B), TR(B) |

9.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

9.2. Test Setup



9.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 21.5 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Port | Volt (kV) | Polarity | CDN/ Clamp | Result/ Observations |
|---------------|-----------|----------|------------|----------------------|
| AC power port | 1 | + | CDN | A |
| AC power port | 1 | - | CDN | A |

A: No degradation in the performance of the EUT was observed.

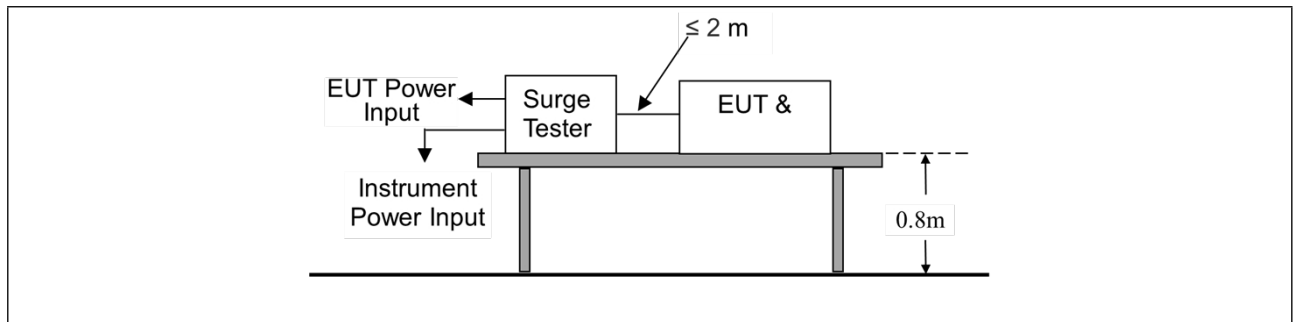
10. Surges (AC power port)

| | |
|-----------------------|---|
| Test Requirement: | EN 301 489-1, clause 9.8 EN 301 489-17, clause 7.2 |
| Test Method: | EN 61000-4-5, clauses 7 and 8 |
| Performance Criteria: | TT(B), TR(B) |

10.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

10.2. Test Setup



10.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 21.5 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Port | Volt (kV) | Polarity | Phase(degree) | Result/ Observations |
|------|-----------|----------|---------------|-------------------------|
| L-N | 1 | + | 0° | A |
| L-N | 1 | - | 0° | A |
| L-N | 1 | - | 90° | A |
| L-N | 1 | + | 90° | A |
| L-N | 1 | - | 180° | A |
| L-N | 1 | + | 180° | A |
| L-N | 1 | + | 270° | A |
| L-N | 1 | - | 270° | A |

A: No degradation in the performance of the EUT was observed.

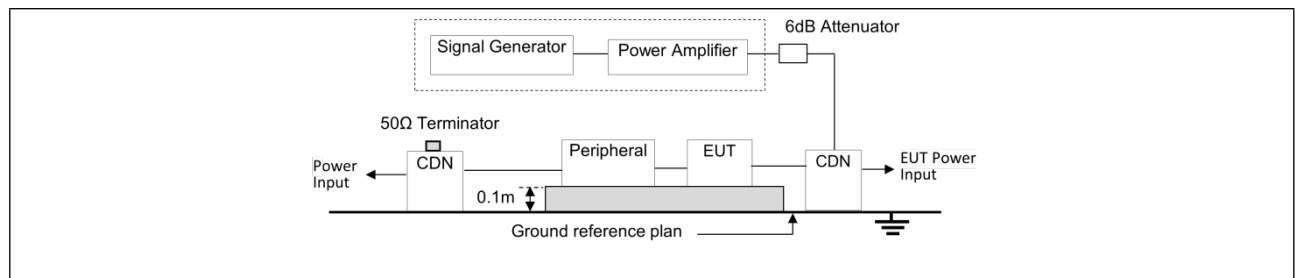
11. Radio frequency, common mode 0,15 MHz to 80 MHz (AC power port)

| | |
|-----------------------|---|
| Test Requirement: | EN 301 489-1, clause 9.5 EN 301 489-17, clause 7.2 |
| Test Method: | EN 61000-4-6, clauses 6 and 8 |
| Performance Criteria: | CT(A), CR(A) |

11.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

11.2. Test Setup



11.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 22.2 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Port | Strength (Vrms) | CDN/Clamp | Dwell time | Result/ Observations |
|---------------|-----------------|-----------|------------|----------------------|
| AC power port | 3 | CDN | 3s | A |

A: No degradation in the performance of the EUT was observed.

Special conditions for EMC immunity tests(Bluetooth/WiFi):

| EUT operating Mode | Max PER During test | PER Limit |
|--------------------|---------------------|-----------|
| TM1 | 1.7% | 10% |
| TM2 | 2.2% | 10% |

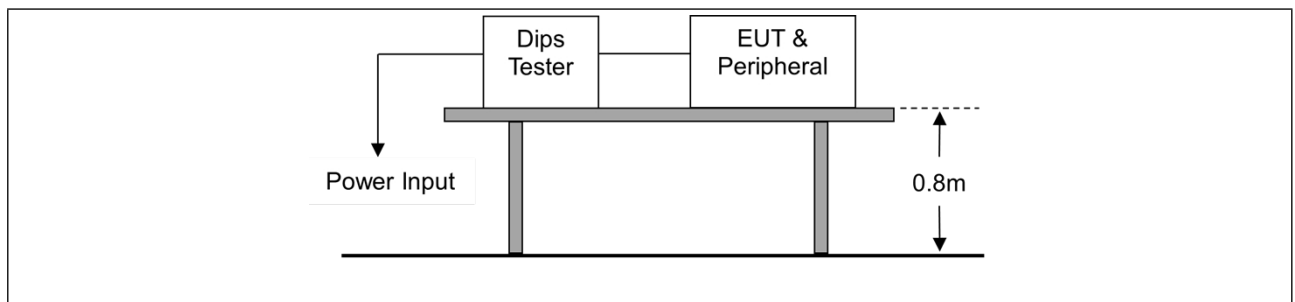
12. Voltage dips and interruptions

| | |
|-----------------------|--|
| Test Requirement: | EN 301 489-1, clause 9.7 EN 301 489-17, clause 7.2 |
| Test Method: | EN 61000-4-11, clause 8 The test levels shall be: <ul style="list-style-type: none"> voltage dip: 0 % residual voltage for 0,5 cycle; voltage dip: 0 % residual voltage for 1 cycle; voltage dip: 70 % residual voltage for 25 cycles (at 50 Hz); voltage interruption: 0 % residual voltage for 250 cycles (at 50 Hz). |
| Performance Criteria: | Voltage dips: TT(B), TR(B) Voltage interruptions: TT(C), TR(C) |

12.1. EUT Operation

| | |
|------------------------|--|
| Operating Environment: | |
| Test mode: | 1: TM1: Adapter+WiFi + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) 2: TM2: Adapter+BT + TF Card Mode(DC 5V from adapter input AC 230V/50Hz) |

12.2. Test Setup



12.3. Test Data

| | | | | | |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 21.5 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Level %UT | Phase (degree) | Duration | No. of Dips/ Interruptions | Result/ Observations |
|-----------|----------------|------------|----------------------------|----------------------|
| 0 | 0° | 0.5 Cycles | 3 | B |
| 0 | 180° | 0.5 Cycles | 3 | B |
| 0 | 0° | 1 Cycles | 3 | B |
| 0 | 180° | 1 Cycles | 3 | B |
| 0 | 0° | 250 Cycles | 3 | B |
| 0 | 180° | 250 Cycles | 3 | B |
| 70 | 0° | 25 Cycles | 3 | B |
| 70 | 180° | 25 Cycles | 3 | B |

B: During the test, the power shut down, after the experiment, the function can automatically return to normal.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_EMG

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

