

廠商會檢定中心

TEST REPORT

| Report No. | : | AT0082776 (8) | | Date : | 28 Dec 2015 |
|--------------------|---|---|--|--------|---------------|
| Application No. | : | LT049598(2) | | | |
| Applicant | : | Skylink Technologies Inc. 17 Sheard Avenue, Bramp Ontario, L6Y 1J3, Canada | | | |
| Sample Description | : | Rating No. of submitted sample | Model No. PM-318-2 : 433.9MHz Transr : AC 120 V | | 5MHz Receiver |
| Date Received | : | 14 Dec 2015 | | | |
| Test Period | : | 21 Dec 2015 to 28 Dec 20 | 15. | | |
| Test Requested | : | FCC 47CFR Part 15 Certification. Industry Canada Interference Causing Equipment Standard RSS-210. | | | |
| Test Method | : | 47 CFR Part 15 (10-1-15 Edition) ANSI C63.10 – 2013 RSS-210 Issue 8 RSS-GEN Issue 4 | | | |
| Test Result | : | See attached sheet(s) from | page 2 to 23. | | |
| Conclusion | : | The submitted sample was found to comply with requirement of FCC 47CFR Part 15 Subpart C and Industry Canada RSS-210 Issue 8. | | | |

For and on behalf of CMA Industrial Development Foundation Limited

Mr. WONG Lap-pong Andrew Manager Electrical Division

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FCC ID: MY5PM3182 IC: 3133B-PM3182

Authorized Signature :

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1 General Information

1.1 General Description

The equipment under test (EUT) model PM-318-2 is a transceiver for wireless plug-in on/off control. It operates at frequency 433.9MHz for transmitter and 317.5MHz for receiver. The oscillation of radio control is generated by a 13.56 MHz crystal for RF transmitter and a 9.893534 MHz crystal for RF receiver. The EUT is powered by AC120V. The EUT is able to control the power of appliances such as lamp or fan with up to 1500Watt by external remote transmitter. The EUT contains a button to setup the remote.

The antenna terminal is permanently attached in EUT and the radio output power is unable to adjust.

The brief circuit description is listed as follows:

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1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 - 2009. A shielded room is located at :

Ground Floor, Yan Hing Centre, 9 – 13 Wong Chuk Yeung Street, Fo Tan, Shatin, New Territories, Hong Kong.

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1.3 List of measuring equipment

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Due Date |
|-------------------------|-----------------|------------|------------|----------------------|
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100152 | 28 Sep 2016 |
| Spectrum Analyze | Rohde & Schwarz | FSV 40 | 100964 | 03 Feb 2016 |
| Broadband Antenna | Schaffner | CBL6112B | 2718 | 20 Feb 2016 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-531 | 25 Nov 2016 |
| Broadband Pre-Amplifier | Schwarzbeck | BBV 9718 | 9718-119 | 25 Nov 2016 |
| Loop Antenna | EMCO | 6502 | 00056620 | 28 Dec 2015 |
| Artificial Main Network | Rohde & Schwarz | ENV216 | 101232 | 22 Oct 2016 |
| Coaxial Cable | Schaffner | RG213/U | N/A | 18 May 2016 |
| Coaxial Cable | Suhner | RG214/U | N/A | 18 May 2016 |
| Coaxial Cable | HUBER+SUHNER | 84225426 | MY24201/4 | 24 Nov 2016 |

Supporting equipment:

1,500W light bulbs (supplied by CMA)

1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

Radiated emissions

| Frequency | Uncertainty (U _{lab}) |
|------------------------------|---------------------------------|
| 30MHz ~ 200MHz (Horizontal) | 4.66dB |
| 30MHz ~ 200MHz (Vertical) | 4.67dB |
| 200MHz ~1000MHz (Horizontal) | 4.68dB |
| 200MHz ~1000MHz (Vertical) | 4.67dB |

Conducted emissions

| Frequency | Uncertainty (U _{lab}) |
|----------------|---------------------------------|
| 150kHz ~ 30MHz | 2.63dB |

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1.5 Test Summary

| TEST ITEM | FCC REFERANCE | IC REFERANCE | RESULT |
|---|---------------|---|--------|
| Radiated emission | 15.231(b) | RSS-210 Issue 8 Annex A1.1 Table A & Clause 2.2 | Comply |
| Assigned bandwidth (20dB bandwidth) | 15.231(c) | - | Comply |
| Occupied bandwidth >0.25% of the centre frequency | - | RSS-210 Issue 8 Annex A1.1.3 | Comply |
| Power line conducted emission | 15.207 | RSS-Gen Issue 4 Clause 7.2.4 | Comply |
| Transmission time after manual activation | 15.231(a) | RSS-210 Issue Annex A1.1.1 | Comply |

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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 - 2013.

A non-conductive turntable with dimensions of 1.5m x 0.4m x 0.8m (L x W x H) placed above the reference ground plane. The equipment under test (EUT) was placed at 0.8m height for below 1GHz measurement and 1.5m height for above 1GHz measurement. The test distance is 3m between EUT and receiving antenna. A broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated. Additional absorbing material will be placed between the EUT and receiving antenna for above 1GHz measurement.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement.

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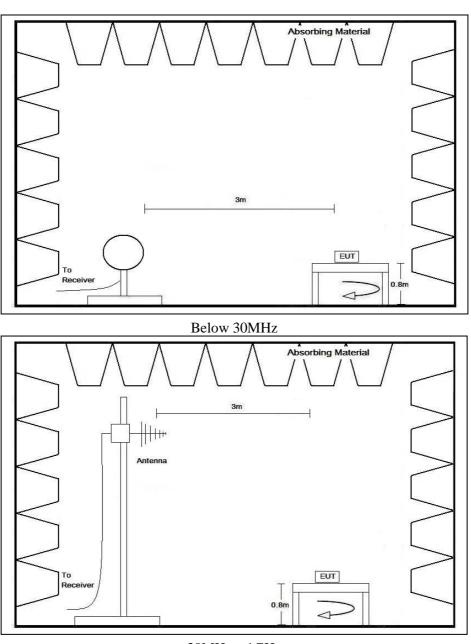
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2.2 Test Setup



30MHz - 1GHz

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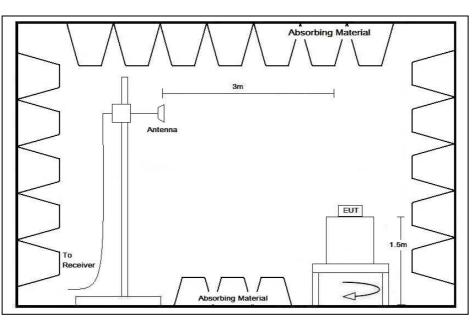
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2.2 Test Setup



Above 1GHz

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2.3 Test Result

Peak Detector data was measured unless otherwise stated.

The radiated emissions are measured from 9kHz to 4.4GHz (the tenth harmonics)

"#" means emissions appearing within the restricted bands shall follow the requirement of 47 CFR Part 15 section 15.205 and RSS-GEN section 8.10.

The frequencies from fundamental up to tenth harmonics were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next pages.

The EUT has been tested in Transmission mode.

It was found that the EUT meet the FCC and RSS requirement.

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2.4 Radiated Emission Measurement Data

Radiated emission

Environmental conditions:

| Parameter | Recorded value | |
|----------------------|----------------|----|
| Ambient temperature: | 23 | °C |
| Relative humidity: | 65 | % |

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dBµV) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) | Detector Type |
|--------------------|-------------------|----------------------------|--|-------------------------------------|-------------------------|----------------|------------------|
| 433.927 | V | 58.4 | 21.6 | 80.0 | 100.8 | -20.8 | Peak |
| 867.987 | Н | 17.4 | 24.3 | 41.7 | 80.8 | -39.1 | Peak |
| #1301.915 | V | 39.7 | -7.6 | 32.1 | 74.0 | -41.9 | Peak |
| 1735.572 | V | 43.4 | -7.7 | 35.7 | 80.8 | -45.1 | Peak |
| 2169.635 | Н | 50.0 | -6.5 | 43.5 | 80.8 | -37.3 | Peak |
| 2603.505 | Н | 48.4 | -4.2 | 44.2 | 80.8 | -36.6 | Peak |
| 3037.437 | Н | 51.7 | -2.8 | 48.9 | 80.8 | -31.9 | Peak |
| 3471.355 | V | 46.6 | -2.8 | 43.8 | 80.8 | -37.0 | Peak |
| #3905.292 | Н | 46.2 | -1.7 | 44.5 | 74.0 | -29.5 | Peak |

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2.4 Radiated Emission Measurement Data

Radiated emission

Environmental conditions:

| Parameter | Recorded value | |
|----------------------|----------------|-----|
| Ambient temperature: | 23 | ° C |
| Relative humidity: | 65 | % |

| Frequency | Polarity | Peak | Average | Average Value at 3m | Limit at 3m | Margin |
|-----------|----------|------------------|----------------|------------------------|-------------|--------|
| (MHz) | (H/V) | Reading at 3m | Factor (dB) | $(dB\mu V/m)$ | (dBµV/m) | (dB) |
| | | (dBµVm) | (02) | (abµ (/iii) | | |
| 433.927 | V | 80.0 | -7.7 | 72.3 | 80.8 | -8.5 |
| 867.987 | Н | 41.7 | -7.7 | 34.0 | 60.8 | -26.8 |
| #1301.915 | V | 32.1 | -7.7 | 24.4 | 54.0 | -29.6 |
| 1735.572 | V | 35.7 | -7.7 | 28.0 | 60.8 | -32.8 |
| 2169.635 | Н | 43.5 | -7.7 | 35.8 | 60.8 | -25.0 |
| 2603.505 | Н | 44.2 | -7.7 | 36.5 | 60.8 | -24.3 |
| 3037.437 | Н | 48.9 | -7.7 | 41.2 | 60.8 | -19.6 |
| 3471.355 | V | 43.8 | -7.7 | 36.1 | 60.8 | -24.7 |
| #3905.292 | Н | 44.5 | -7.7 | 36.8 | 54.0 | -17.2 |

Remark: According to FCC Part15 C clause 15.231 (b) and (or) RSS-210 Issued 8 Annex 1, the EUT shall demonstrate the compliance with the limits on the field strength of emissions based on the average value of the measured emissions. The equation with a sample calculation as follow: Average value = Peak value + 20 Log10 (Duty cycle), where the Duty cycle is calculated from following section 4.2.

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3 Description of the Line-conducted Test

3.1 Test Procedure

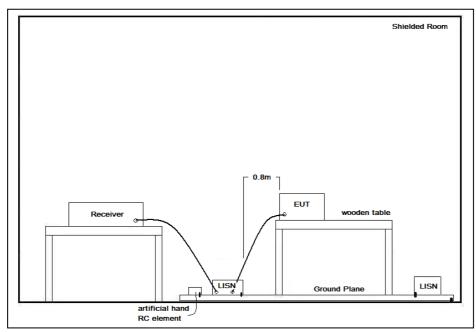
Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 - 2013. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

The EUT has been tested in Transmission mode.

It was found that the EUT met the FCC and RSS requirement.

3.3 Test Setup



3.4 Graph and Table of Conducted Emission Measurement Data

The test data and graphs had shown in Appendices A4.

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4 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

| Document | Filename | | |
|-------------------------|--------------|--|--|
| ID Label/Location | LabelSmp.pdf | | |
| Block Diagram | BlkDia.pdf | | |
| Schematic Diagram | Schem.pdf | | |
| Users Manual | UserMan.pdf | | |
| Operational Description | OpDes.pdf | | |

4.1 Bandwidth

Appendices A1 is shown the fundamental emission is confined in the specified band. The 20dB bandwidth is 388.49kHz and 99% bandwidth is 371.703kHz. The bandwidth requirement is 0.25% of 433MHz = 1.083MHz. It also shows that the EUT met the FCC Part 15.231(c) and RSS-210 Annex A1.1.3 bandwidth requirement.

4.2 Duty cycle

Since the device has difference code for difference sample sold; therefore the worst case duty cycle is used for the average factor calculation.

The duty cycle is simply the on-time divided by the period:

| Time duration of one cycle | = | 100 ms |
|-------------------------------|---|---|
| Effective period of one cycle | | (2.8x1+0.7x26+0.5x9+2.8x1+0.7*18+0.3) ms 41.2 ms |
| Duty Cycle | | (41.2 ÷ 100) ms 0.412 |

Therefore, the average correction factor is found by $20 \log_{10} 0.412 = -7.7 dB$

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4.3 Transmission time

Duration of each transmission =2.94s

The duration of the transmission is less than 5s after the transmission is activated by remote controller. An Appendices A3 is shown the EUT to comply with FCC part 15, section 15.231(a)(1) and RSS-210, Annex 1, section A1.1.1.

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| 5 | Apper | ndices | | | |
| | A1. A2. | Bandwidth Plot | 1 | page(s) | |
| | A2. A3. | Average Factor Transmission time | 1 | page(s) page(s) | |
| | A4. | Conducted Emission Measurement Data | 2 | page(s) | |

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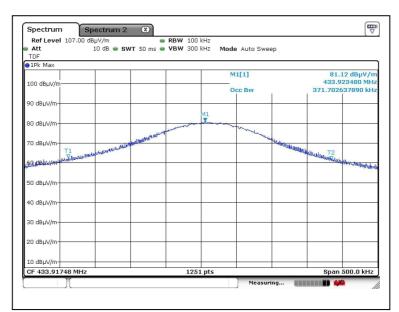
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T Spectrum Spectrum 2 🛛 🗴 RBW 100 kHz
VBW 300 kHz Reflevel 107 Att 10 dB 👄 SWT 50 ms Mode Auto Sweep 1Pk Ma M1[1] 80.28 dBµV/r 433.919080 MH 100 dBµV ndB 20.00 d 388.490000000 kH 90 dBuV/ Qf 1116 80 dBµV/ 70 dBµ 50 dBuV. 40 dBuV. 30 dBiAZ 20 dBµV/ 10 dBµV CF 433.91748 MHz Span 500.0 kHz 1251 pts lark Type Ref Trc Function Response **Function Result** Stimulus 433.91908 do 433.72124 MHz 434.10973 MHz 60 ndE Q facto 20.00 dB 1116.9

A1. Bandwidth Plot

20dB bandwidth



99% occupied bandwidth

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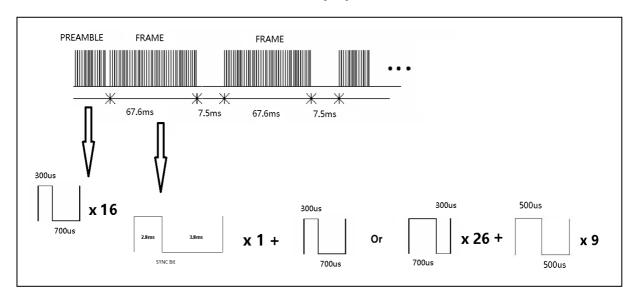
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A2. Duty Cycle

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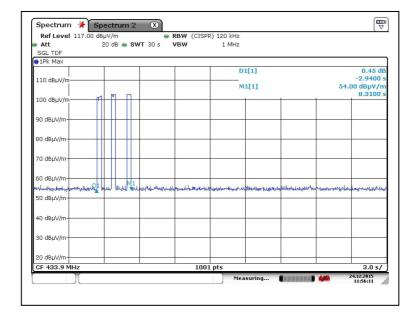
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A3. Transmission time

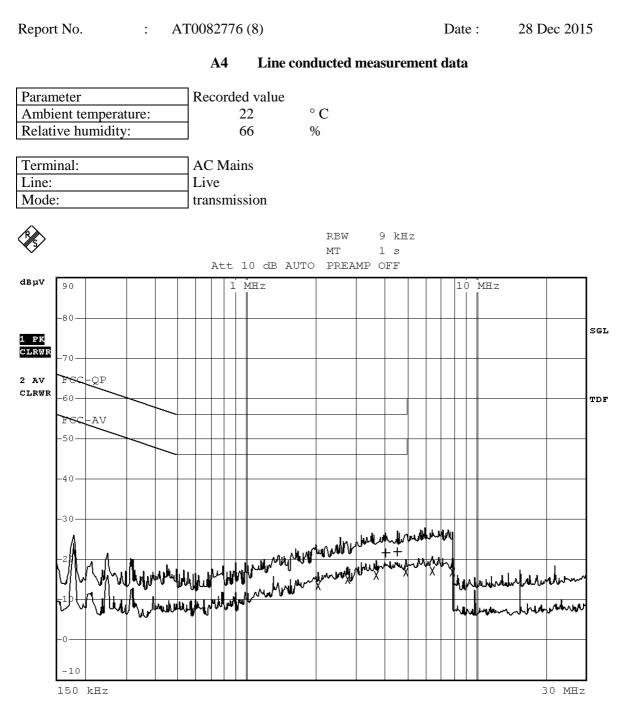
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A4 Line conducted measurement data

| Parameter | Recorded value | |
|----------------------|----------------|-----|
| Ambient temperature: | 22 | ° C |
| Relative humidity: | 66 | % |

| Terminal: | AC Mains |
|-----------|--------------|
| Line: | Live |
| Mode: | transmission |

| EDIT PEAK LIST (Final Measurement Results) | | | | | |
|--|---|---|---|--|--|
| Trace1: FCC-QP | | | | | |
| Trace2: FCC-AV | | | | | |
| Trace3: | | | | | |
| TRACE | FREQUENCY | LEVEL dBµV | DELTA LIMIT dB | | |
| Average | 2.057 MHz | 13.51 L1 gnd | -32.48 | | |
| Average | 2.768 MHz | 15.16 L1 gnd | -30.83 | | |
| Average | 3.6725 MHz | 16.20 L1 gnd | -29.79 | | |
| Quasi Peak | 4.064 MHz | 21.63 L1 gnd | -34.36 | | |
| Quasi Peak | 4.541 MHz | 21.87 L1 gnd | -34.12 | | |
| Average | 4.9595 MHz | 16.81 L1 gnd | -29.18 | | |
| Average | 6.4175 MHz | 17.14 L1 gnd | -32.85 | | |
| Average | 7.988 MHz | 17.02 L1 gnd | -32.97 | | |
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| | | | | | |
| | cel: ce2: ce3: TRACE Average Average Quasi Peak Quasi Peak Average Average | cel: FCC-QP ce2: FCC-AV ce3: TRACE FREQUENCY Average 2.057 MHz Average 2.768 MHz Average 3.6725 MHz Quasi Peak 4.064 MHz Quasi Peak 4.541 MHz Average 4.9595 MHz Average 6.4175 MHz | cel: FCC-QP ce2: FCC-AV ce3: TRACE FREQUENCY LEVEL dBµV Average 2.057 MHz 13.51 L1 gnd Average 2.768 MHz 15.16 L1 gnd Average 3.6725 MHz 16.20 L1 gnd Quasi Peak 4.064 MHz 21.63 L1 gnd Quasi Peak 4.541 MHz 21.87 L1 gnd Average 4.9595 MHz 16.81 L1 gnd Average 6.4175 MHz 17.14 L1 gnd | | |

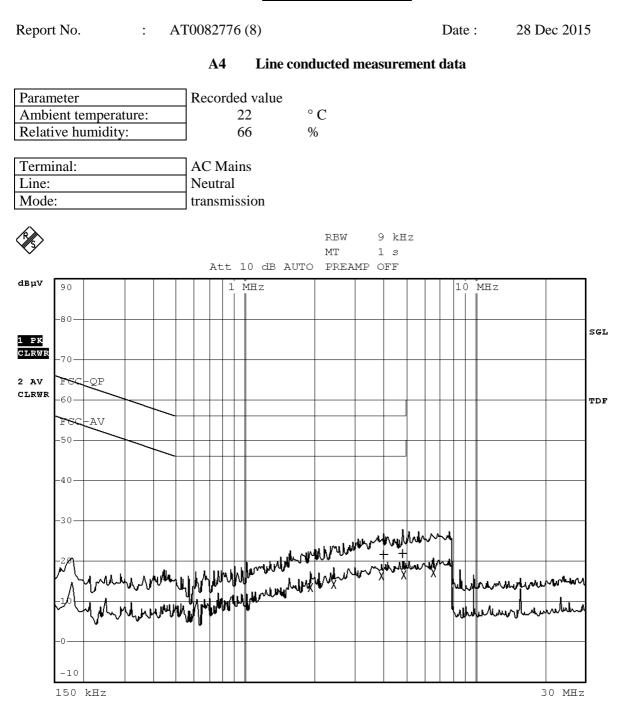
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A4 Line conducted measurement data

| Parameter | Recorded value | |
|----------------------|----------------|----|
| Ambient temperature: | 22 | °C |
| Relative humidity: | 66 | % |

| Terminal: | AC Mains |
|-----------|--------------|
| Line: | Neutral |
| Mode: | transmission |

| | EDIT PEAK LIST (Final Measurement Results) | | | | |
|-----|--|------------|----------|-------|----------------|
| Tra | Tracel: FCC-QP | | | | |
| Tra | ice2: | FCC-AV | | | |
| Tra | Trace3: | | | | |
| | TRACE | FREQUENCY | LEVEL di | ЗμV | DELTA LIMIT dB |
| 2 | Average | 1.9175 MHz | 13.36 | N gnd | -32.63 |
| 2 | Average | 2.4395 MHz | 14.39 | N gnd | -31.60 |
| 2 | Average | 3.902 MHz | 16.24 | N gnd | -29.75 |
| 1 | Quasi Peak | 3.9965 MHz | 21.56 | N gnd | -34.43 |
| 1 | Quasi Peak | 4.865 MHz | 21.96 | N gnd | -34.03 |
| 2 | Average | 4.91 MHz | 16.75 | N gnd | -29.24 |
| 2 | Average | 6.5705 MHz | 17.16 | N gnd | -32.84 |
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***** End of Report *****

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