



LCIE



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TEST REPORT

N°: 174694 - 772593

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Subject

Electromagnetic compatibility (EMC):
47 CFR Part 15.107 & Part 15.109
Subpart B of 2021
ANSI C63.4 of 2014
ICES-003 issue 7 of 2020 (P)

Issued to

ABEYE
27 Rue Buffon
21200 - BEAUNE
FRANCE

Apparatus under test

Product LEXILENS JCV5S2
Trade mark LEXILENS
Manufacturer ABEYE
Model under test ABLT02
Serial number 1505131B3B
FCC ID 2A9XX-ABLT02
IC ID 30009-ABLT02

Test date

November 3, 2022

Test Site

6500A-1 & 6500A-3

Registration Number

582868

Designation Number

FR0010

Test location

LCIE, Fontenay Aux Roses & Ecuelles

Test performed by

Laurent Deneux

Composition of document

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PUBLICATION HISTORY

Each new edition of this test report replaces and cancels the previous edition. The control of the old editions of report is under responsibility of client.

| Version | Date | Author | Modification |
|---------|-------------------|----------------|--|
| 01 | February 15, 2023 | Laurent DENEUX | Creation of the document |
| 02 | October 30, 2023 | Laurent DENEUX | Change of address on page 1 |
| 03 | December 21, 2023 | Laurent DENEUX | Addition of the test location, registration number and the test site on page 1 |

Date of receipt of test item:
October 27, 2022



SUMMARY

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1. Test Program

References

- ✓ CFR 47 Part 15 Subpart B - Radio frequency devices - Unintentional radiators 2021
- ✓ ICES -003 issue 7 of 2020
- ✓ ANSI 63.4 of 2014

Emission tests:

| Test Description | Main characteristics | Test result - Comments |
|--|---|--|
| Measurement of radiated electric field in shielded room 15.109 (a), (b) & (c) | <input type="checkbox"/> Class A <input type="checkbox"/> Class B | <input type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> NA <input checked="" type="checkbox"/> NP (Limited Program) |
| Measurement of radiated electric field in open space | <input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> NA <input type="checkbox"/> NP (Limited Program) |
| Measurement of conducted disturbance on the AC main power port 15.107 (a) (c) (d) | <input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL <input type="checkbox"/> NA (1) <input type="checkbox"/> NP (Limited Program) |

(1): EUT not directly or indirectly connected to the AC Power Public Network

The product is compliant according to CFR 47 Part 15 Subpart B - Radio frequency devices - Unintentional radiators & ICES -003 standards.

PASS: EUT complies with standard's requirement

FAIL: EUT does not comply with standard's requirement

NA: Not Applicable

NP: Test Not Performed

2. Equipment Description (declared by provider)

2.1. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES):

Equipment under test (EUT): ABLT02

Serial Number: 1505131B3B



Equipment Under Test



Inputs/outputs - Cable:

| Access | Inputs / Outputs | Type | Length used (m) | Declared <3m | Shielded | Under test | Comments |
|--------|------------------|------|-----------------|--------------|-------------------------------------|-------------------------------------|----------|
| Data | Input | USB | 2 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |

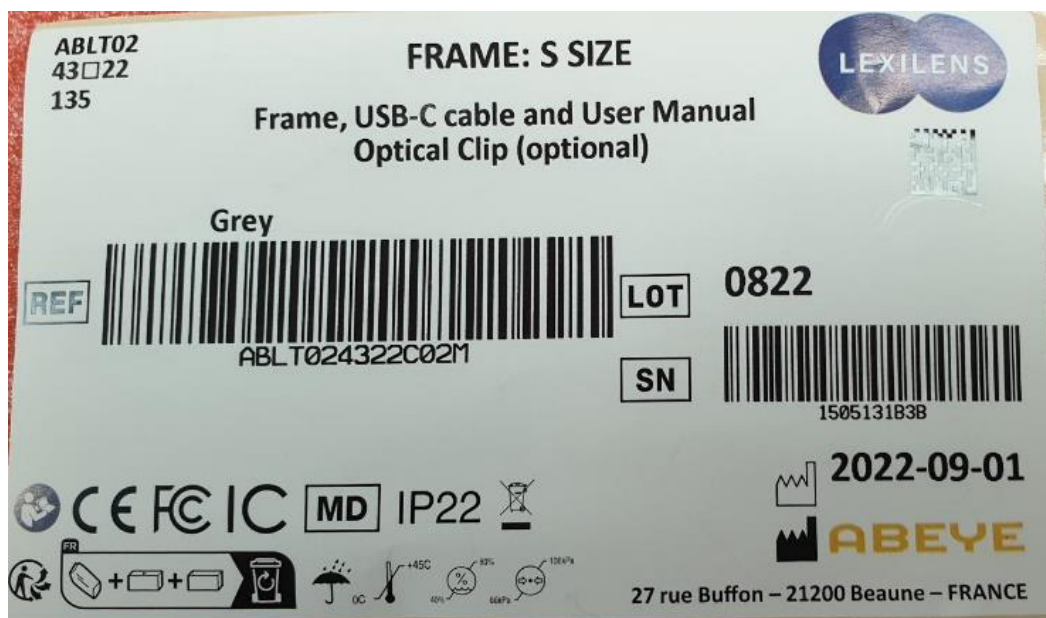
Auxiliary equipment used during test:

| Type | Reference | Sn | Comments |
|--------------|-------------------|----|-----------|
| Power supply | OTTERBOX 78-51415 | - | No tested |

Equipment information: (Declared by provider)

| | | | | |
|---|---|--|--|-----|
| Apparatus Description | Junior care glasses | | | |
| Type of power source: | <input checked="" type="checkbox"/> AC power supply | <input type="checkbox"/> DC power supply | <input type="checkbox"/> Battery (Select Type) | |
| Test source voltage: | Vmin-Vmax: | <input checked="" type="checkbox"/> 240 - 120 V / 50 - 60 Hz | <input type="checkbox"/> 5 VDC | |
| Operating Modes | Mode 1 | paired and powered at 240V-50Hz | | |
| | Mode 2 | paired and powered at 120V-60Hz | | |
| | Mode 3 | - | | |
| | Mode 4 | - | | |
| Highest internal frequency (PLL, Quartz, Clock, Microprocessor...): | F _{Highest} : | | NC | MHz |

2.2. EQUIPMENT LABELLING



Equipment Labelling

2.3. EQUIPMENT MODIFICATIONS

☒ None
 ☐ Modification:



2.4. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follow:

$$FS = RA + AF + CF - AG$$

Where
FS = Field Strength
RA = Receiver Amplitude
AF = Antenna Factor
CF = Cable Factor
AG = Amplifier Gain

Assume a receiver reading of 52.5dB μ V is obtained. The antenna factor of 7.4 and a cable factor of 1.1 are added. The amplifier gain of 29dB is subtracted, giving a field strength of 32 dB μ V/m.

$$FS = 52.5 + 7.4 + 1.1 - 29 = 32 \text{ dB}\mu\text{V/m}$$

The 32 dB μ V/m value can be mathematically converted to its corresponding level in μ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm} [(32\text{dB}\mu\text{V/m})/20] = 39.8 \mu\text{V/m}.$$

2.5. TEST DISTANCE EXTRAPOLATION – FCC/ISED

The field strength is extrapolated to the new measurement distance using formula from FCC Part15.31 (f) and §6.5-6.6 RSS-GEN:

Below 30MHz,

$$FS_{\text{limit}} = FS_{\text{max}} - 40 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

Above 30MHz,

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

Where:

FS_{limit} is the calculation of field strength at the limit distance, expressed in dB μ V/m

FS_{max} is the measured field strength, expressed in dB μ V/m

d_{measure} is the distance of the measurement point from the EUT

d_{limit} is the reference limit distance



3. Measurement of radiated emissions

3.1. ENVIRONMENTAL CONDITIONS

Test performed by : **Laurent Deneux**
Date of test : November 3, 2022
Ambient temperature : 20°C
Relative humidity : 41%

3.2. TEST SETUP

Specifications:

| | | |
|-----------|---------------------|-------------|
| Frequency | 30 – 1000 MHz | RBW 120 kHz |
| | 1-18GHz | RBW 1MHz |
| Detector | Peak and Quasi-Peak | |

Pre characterization in semi anechoic room is performed to define the critical frequencies

Operating conditions:

- The Equipment under Test is installed:

- ☐ Measure in semi anechoic room
☒ Measure in open area site

- Measuring distance:

- ☒ 3m
☒ 10m

- Deviation method:

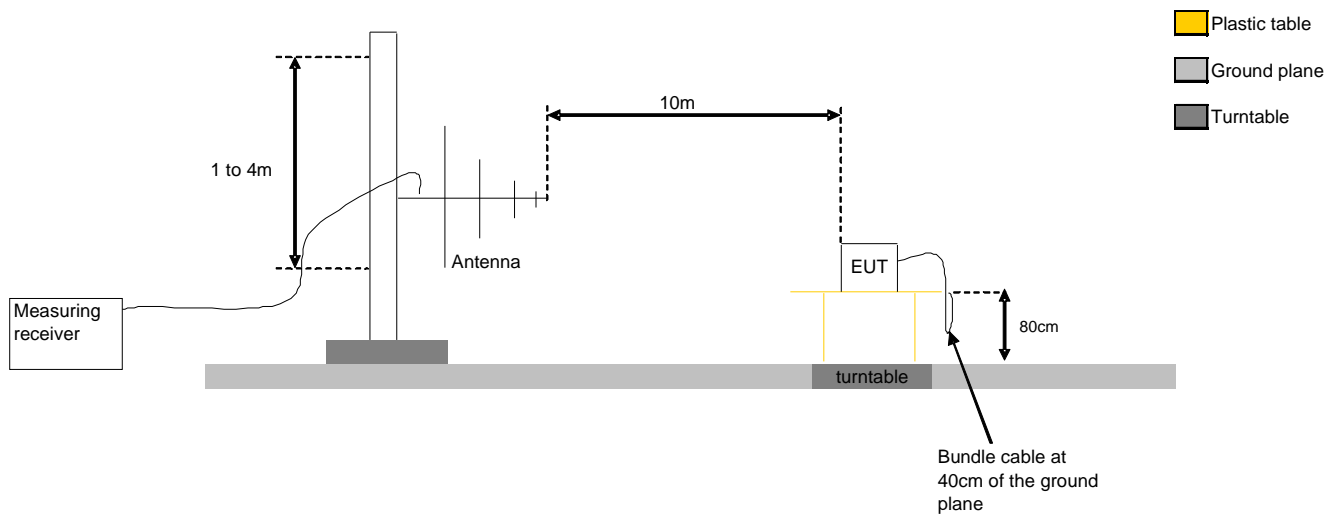
- ☐ Yes
☒ No

-Product installation:

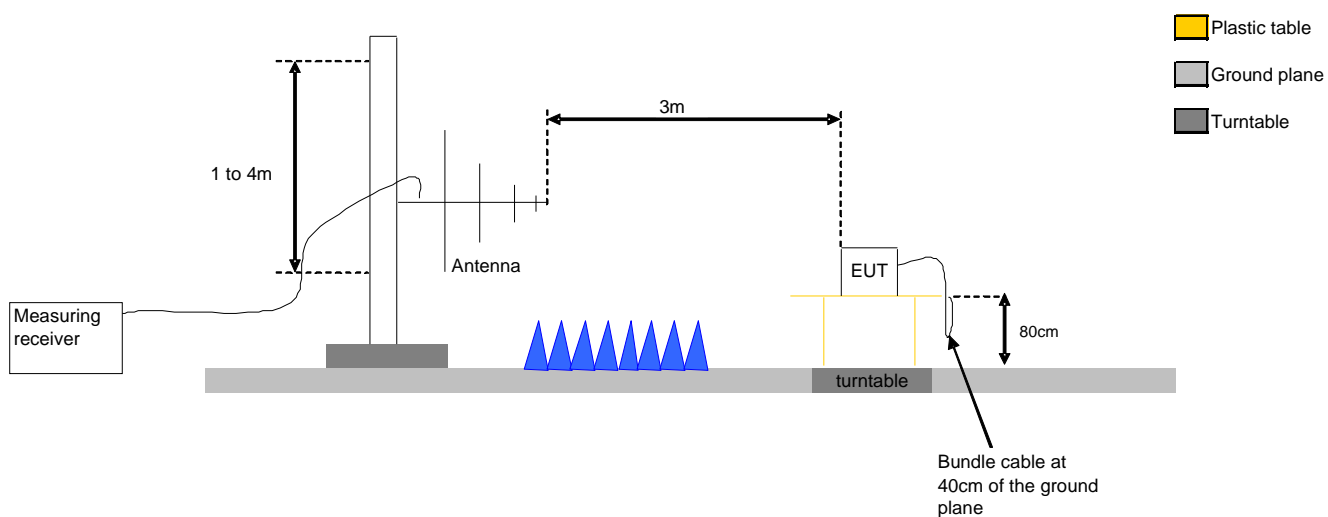
- ☒ The EUT was tested as a tabletop equipment and was placed on a non-conducting platform the top of which is 0.8m above the metal ground plane.
☐ The EUT is at 10cm height from reference plane

Operating mode:

- ☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ...



Test Set up for radiated measurement in open area test site below 1GHz



Test Set up for radiated measurement in open area test site above 1GHz



Measurement of radiated disturbances.



LCIE



Measurement of radiated disturbances.



3.3. LIMIT FOR FCC

☐ Class A in open area test site

| Frequency Bands/frequencies | dB (μV/m) quasi-peak | dB (μV/m) peak | dB (μV/m) average | Distance |
|-----------------------------|----------------------|----------------|-------------------|----------|
| 30-88MHz | 39.5 | - | - | 10m |
| 88 – 216MHz | 43.9 | - | - | 10m |
| 216 – 960 MHz | 46.9 | - | - | 10m |
| 960 – 1000 MHz | 50 | - | - | 10m |
| 1000-6000MHz | - | 80 | 60 | 3m |

☒ Class B in open area test site

| Frequency Bands/frequencies | dB (μV/m) quasi-peak | dB (μV/m) peak | dB (μV/m) average | Distance |
|-----------------------------|----------------------|----------------|-------------------|----------|
| 30-88MHz | 30 | - | - | 10m |
| 88 – 216MHz | 33.5 | - | - | 10m |
| 216 – 960 MHz | 36 | - | - | 10m |
| 960 – 1000 MHz | 43.9 | - | - | 10m |
| 1000-6000MHz | - | 74 | 54 | 3m |



3.4. LIMIT FOR IECS 003

☐ Class A in open area test site

| Frequency Bands/frequencies | dB (μV/m) quasi-peak | dB (μV/m) peak | dB (μV/m) average | Distance |
|-----------------------------|----------------------|----------------|-------------------|----------|
| 30-88MHz | 40 | - | - | 10m |
| 88 – 216MHz | 43.5 | - | - | 10m |
| 216 – 230 MHz | 46.4 | - | - | 10m |
| 230 – 960 MHz | 47 | - | - | 10m |
| 960 – 1000 MHz | 49.5 | - | - | 10m |
| 1000-6000MHz | - | 80 | 60 | 3m |

☒ Class B in open area test site

| Frequency Bands/frequencies | dB (μV/m) quasi-peak | dB (μV/m) peak | dB (μV/m) average | Distance |
|-----------------------------|----------------------|----------------|-------------------|----------|
| 30-88MHz | 30 | - | - | 10m |
| 88 – 216MHz | 33.1 | - | - | 10m |
| 216 – 230 MHz | 35.6 | - | - | 10m |
| 230 – 960 MHz | 37 | - | - | 10m |
| 960 – 1000 MHz | 43.5 | - | - | 10m |
| 1000-6000MHz | - | 74 | 54 | 3m |

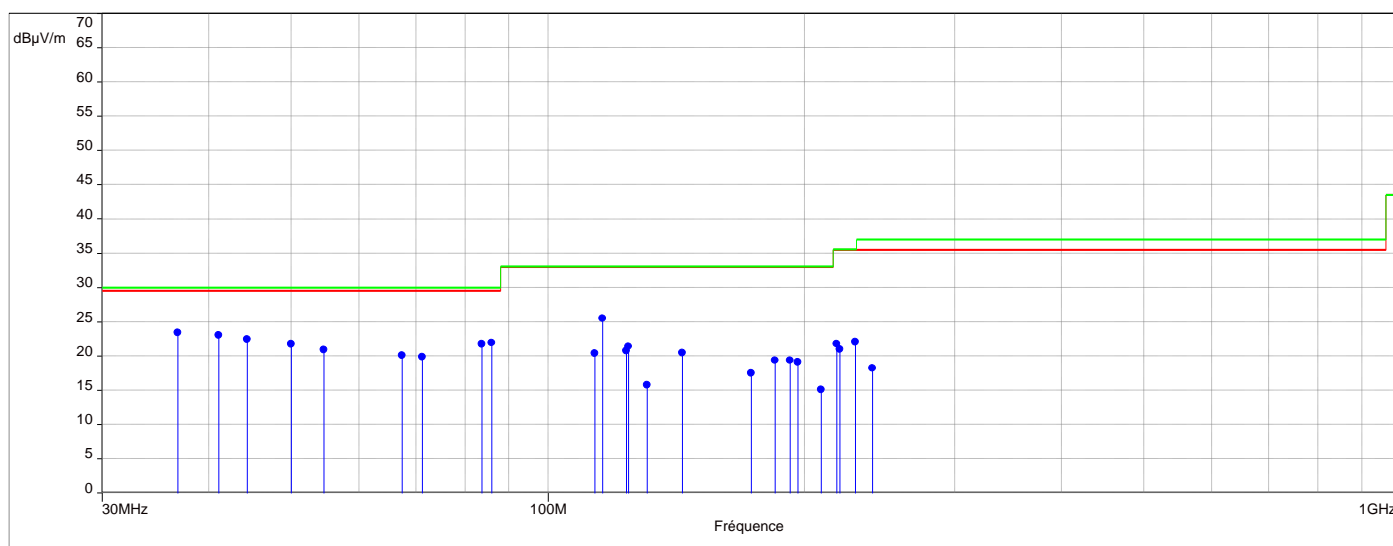
3.5. TEST EQUIPMENT LIST

| Description | Manufacturer | Model | Identifier | Last Calibration date | Calibration due date |
|---------------------|-----------------|-----------------|------------|-----------------------|----------------------|
| Open test site | LCIE | - | F2000400 | 2022-02 | 2023-02 |
| EMI Test Receiver | ROHDE & SCHWARZ | ESU | A2642018 | 2020-10 | 2022-12 |
| Cable | | | A5329368 | 2021-12 | 2022-12 |
| Preamplifier | BONN | BLNA 3018-8F305 | A7080053 | 2021-11 | 2023-11 |
| Horn antenna | EMCO | 3115 | C2042016 | 2020-04 | 2023-04 |
| Cable | - | - | A5329542 | 2021-11 | 2022-11 |
| Antenne bilog | CHASE | CBL 6112A | C2040040 | 2021-04 | 2022-04 |
| Cable | - | - | A5330032 | 2022/08 | 2023/08 |
| Cable | - | - | A5329449 | 2021-11 | 2022-11 |
| Software V3.19.1.21 | NEXIO | BAT-EMC | - | - | - |

3.6. RESULTS

Diagram N°1
Quasi peak measurement
Vertical & horizontal Polarization (30MHz-1GHz)

— IECS 003 - Classe:B - QCrête/10.0m/
 — FCC Part 15 class B (unintentional radiator) §109 - Classe:- - QCrête/10.0m/
 • Mes.Q-Peak (Mes. Q-Peak) (Verticale)
 • Mes.Q-Peak (Mes. Q-Peak) (Horizontale)



| | Frequency (MHz) | level (dBμV/m) | limit FCC class B | Margin Fcc Part class B | IECS003 class B | Margin IECS003 class B |
|------------|-----------------|----------------|-------------------|-------------------------|-----------------|------------------------|
| Vertical | 36.8 | 23.4 | 29.5 | 6.1 | 30 | 6.6 |
| Vertical | 44.4 | 22.4 | 29.5 | 7.1 | 30 | 7.6 |
| Vertical | 85.9 | 21.9 | 29.5 | 7.6 | 30 | 8.1 |
| Vertical | 229.2 | 22 | 35.5 | 13.5 | 35.1 | 13.1 |
| Horizontal | 115.9 | 25.5 | 33 | 7.5 | 33.1 | 7.6 |
| Horizontal | 218.1 | 21.8 | 35.5 | 13.7 | 35.1 | 13.3 |



Diagram N°2
Peak measurement
Vertical & horizontal Polarization (1GHz-18GHz)

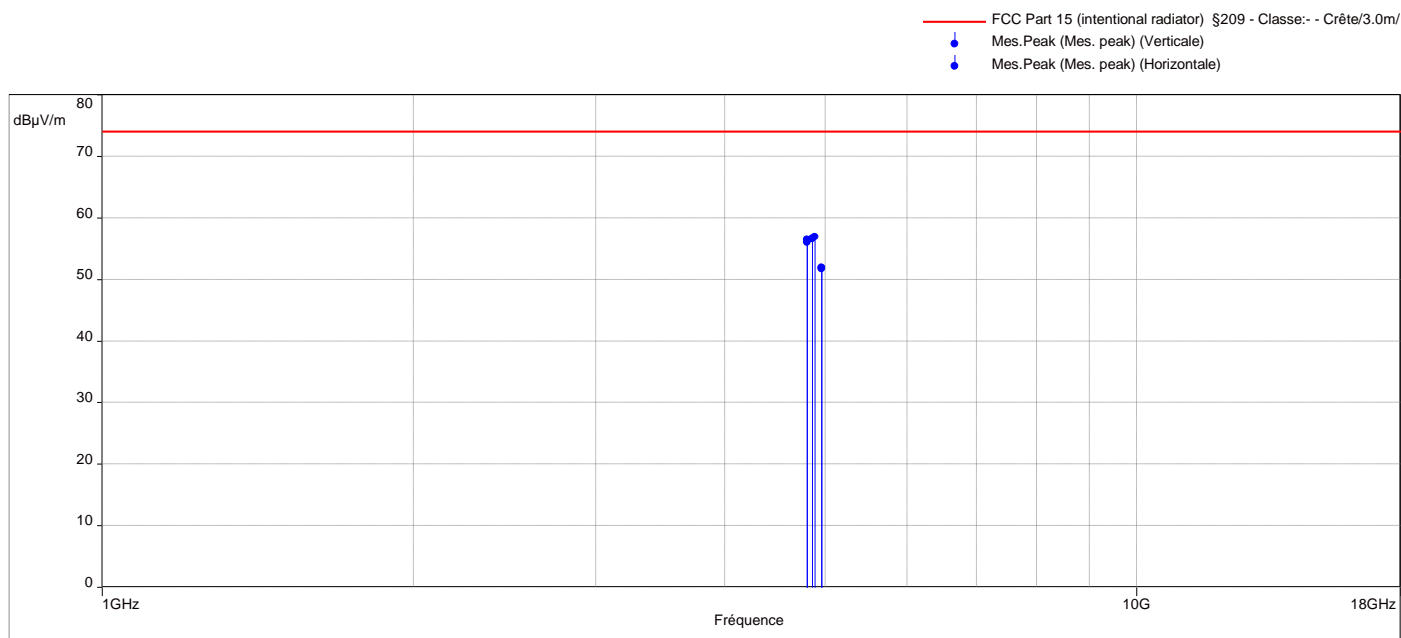
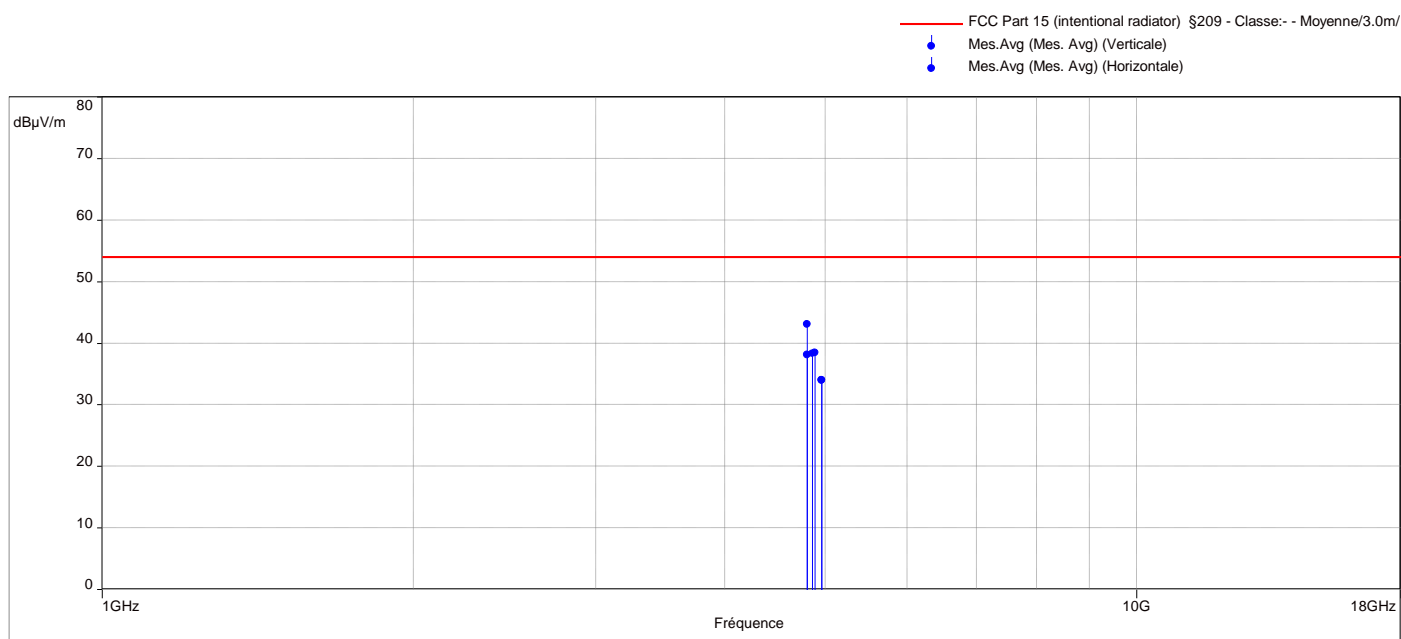


Diagram N°3
Average value
Vertical & horizontal Polarization (1GHz-18GHz)





| | Frequency (MHz) | level peak (dBμV/m) | level average (dBμV/m) | limit peak FCC Part.15 | Margin peak FCC Part .15 | limit average FCC Part.15 | Margin Average FCC Part.15 |
|------------|-----------------|---------------------|------------------------|------------------------|--------------------------|---------------------------|----------------------------|
| Vertical | 4803.4 | 56.01 | 38.08 | 63.5 | 7.49 | 43.5 | 5.42 |
| Vertica | 4884.1 | 56.94 | 38.49 | 63.5 | 6.56 | 43.5 | 5.01 |
| Vertica | 4960 | 51.95 | 33.99 | 63.5 | 11.55 | 43.5 | 9.51 |
| Horizontal | 4803.9 | 56.51 | 43.09 | 63.5 | 6.99 | 43.5 | 0.41 |
| Horizontal | 4861 | 56.61 | 38.38 | 63.5 | 6.89 | 43.5 | 5.12 |
| Horizontal | 4959.86 | 51.76 | 33.99 | 63.5 | 11.74 | 43.5 | 9.51 |

3.7. CONCLUSION

Measures of Radiated Emission, performed on the sample of the product ABLT02, SN: 1505131B3B, in configuration and description presented in this test report, show levels conform to the FCC part 15 & ICES -003 limits.



4. Measurement of conducted disturbance

4.1. ENVIRONMENTAL CONDITIONS

Test performed by : **Laurent Deneux**
Date of test : November 3, 2022
Ambient temperature : 21°C
Relative humidity : 43%

4.2. TEST SETUP

Specifications:

Frequency 0.15 – 30 MHz RBW 9 kHz
Detector Peak , Quasi Peak and average

The measurement is performed on power supply with a LISN and telecommunication lines with RSI or current clamp for shielded cables.

Operating conditions:

- Deviation method:

☐ Yes

☒ No

-Product installation:

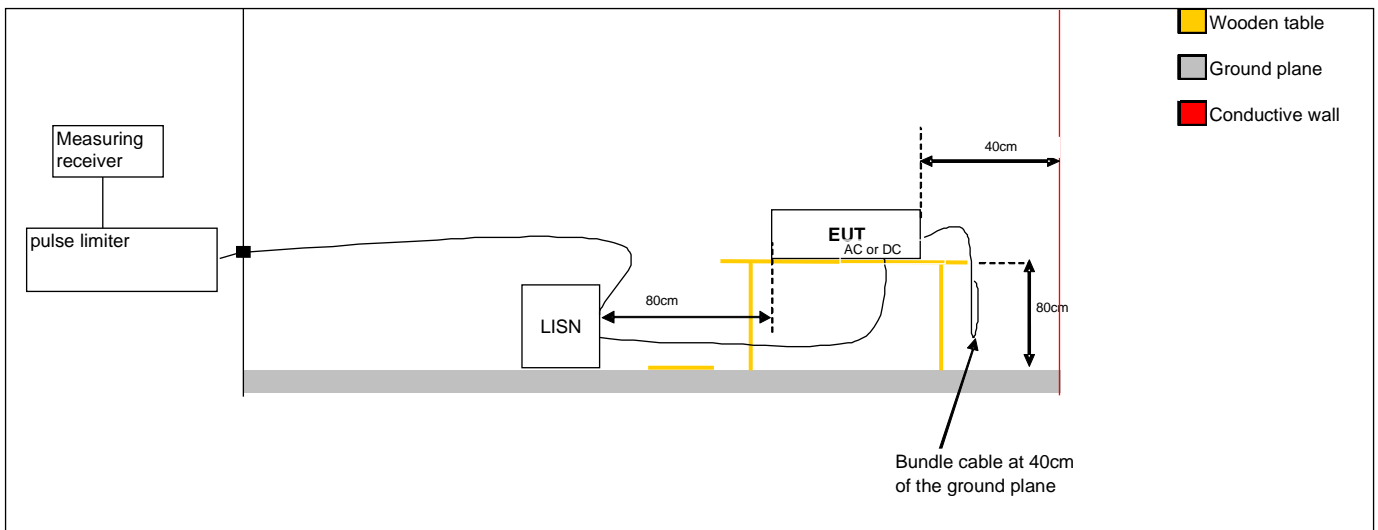
☒ The EUT is installed on a wooden table 80 cm above the reference plane, at 80cm of the LISN and at 40cm of the vertical conductive wall

☐ The EUT is installed on a wooden table 40 cm above the reference plane, at 80cm of the LISN.

☐ The EUT is installed 10 cm above the reference plane, at 80cm of the LISN.

Operating mode:

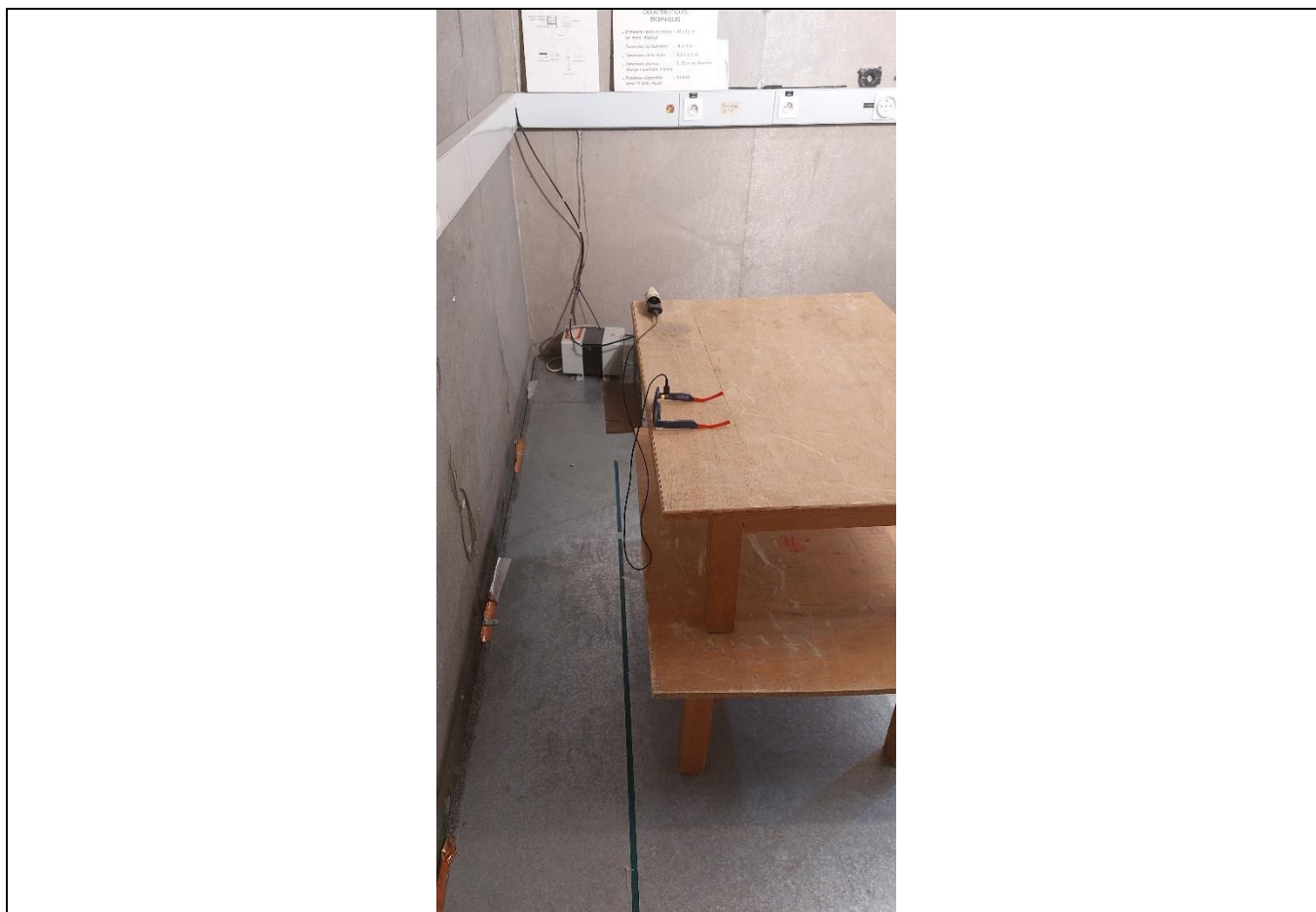
☒ Mode 1 ☒ Mode 2 ☐ Mode 3 ...



Test set up of conducted emission on power supply



Test set up of conducted emission on power supply



Test set up of conducted emission on power supply

4.3. LIMIT

☐ Power supply Class A

| Frequency Bands/frequencies | dB (μV/m) quasi-peak | dB (μV/m) average |
|-----------------------------|----------------------|-------------------|
| 0.15-0.5MHz | 79 | 66 |
| 0.5-30 MHz | 73 | 60 |

☒ Power supply Class B

| Frequency Bands/frequencies | dB (μV/m) quasi-peak | dB (μV/m) average |
|-----------------------------|----------------------|-------------------|
| 0.15-0.5MHz | 66-56 | 56-46 |
| 0.5-5 MHz | 56 | 46 |
| 5-30 MHz | 60 | 50 |



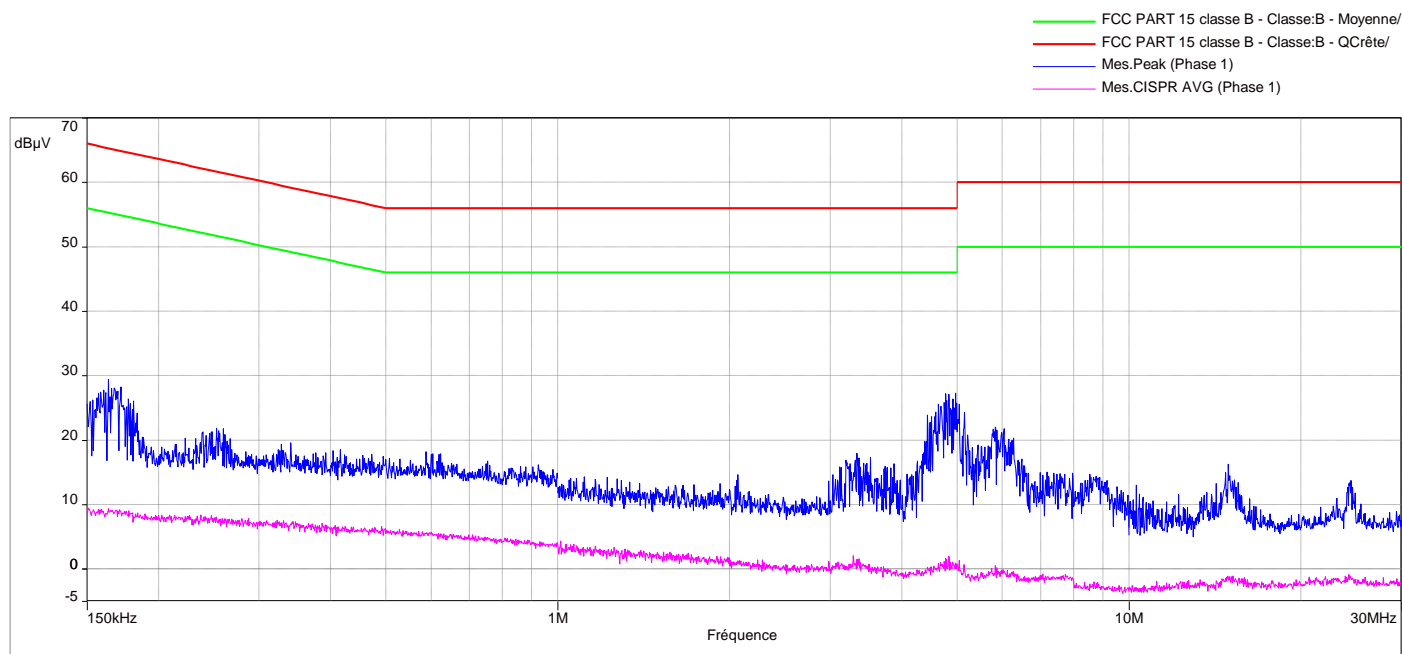
4.4. TEST EQUIPMENT LIST

| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due |
|---------------------|-----------------|---------|------------|-----------|----------|
| Receiver | ROHDE & SCHWARZ | ESU | A2642018 | 2020/10 | 2022/12 |
| Limiter | ROHDE & SCHWARZ | ESH3-Z2 | A2649008 | 2022/06 | 2024/06 |
| V ISLN | ROHDE & SCHWARZ | ESH2-Z5 | C2322002 | 2021/11 | 2022/12 |
| Absorber cable | LCIE | - | A5329589 | 2021/11 | 2023/11 |
| Cable | - | - | A5329417 | 2021/11 | 2022/11 |
| Power supply | DANA | DSC5000 | A7044076 | - | - |
| Software V3.19.1.21 | NEXIO | BAT-EMC | - | - | - |

4.5. RESULTS

Diagram N°1

Phase 240V/50Hz

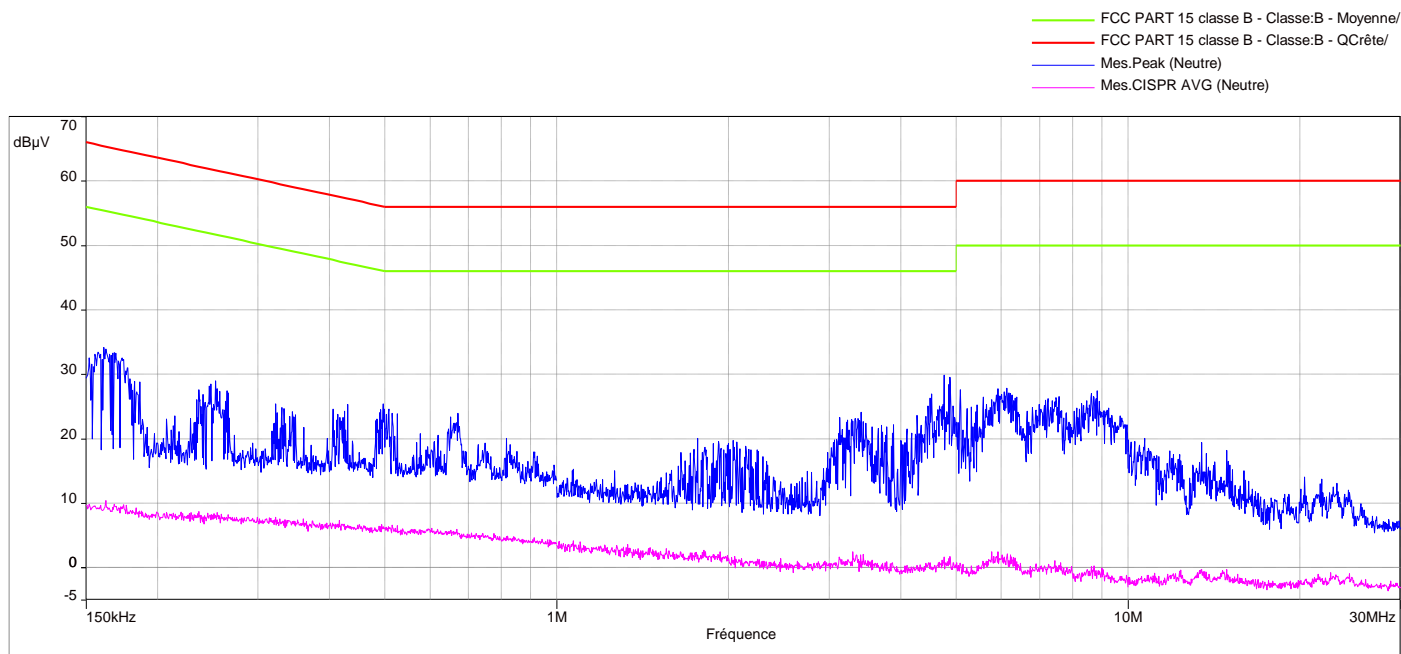


| Frequency (MHz) | Peak Level (dBμV) | Quasi-Peak Level (dBμV) | Quasi-Peak Limit (dBμV) | Margin peak/Quasi Peak (dB) | Average Level (dBμV) | Average Limit (dBμV) | Margin Avg/Avg (dB) |
|--------------------|----------------------|-------------------------------|-------------------------------|--------------------------------------|----------------------------|----------------------------|---------------------------|
| 0.15 | 25.6 | - | 66 | 40.4 | 8.6 | 56 | 47.4 |
| 0.6 | 17.7 | - | 56 | 38.3 | 5.2 | 46 | 40.8 |
| 3.33 | 18 | - | 56 | 38 | 2 | 46 | 44 |
| 4.97 | 27.3 | - | 56 | 28.7 | 2 | 46 | 44 |
| 14.9 | 16.3 | - | 60 | 43.7 | -1 | 50 | 51 |



Diagram N°2

Neutral 240V/50Hz

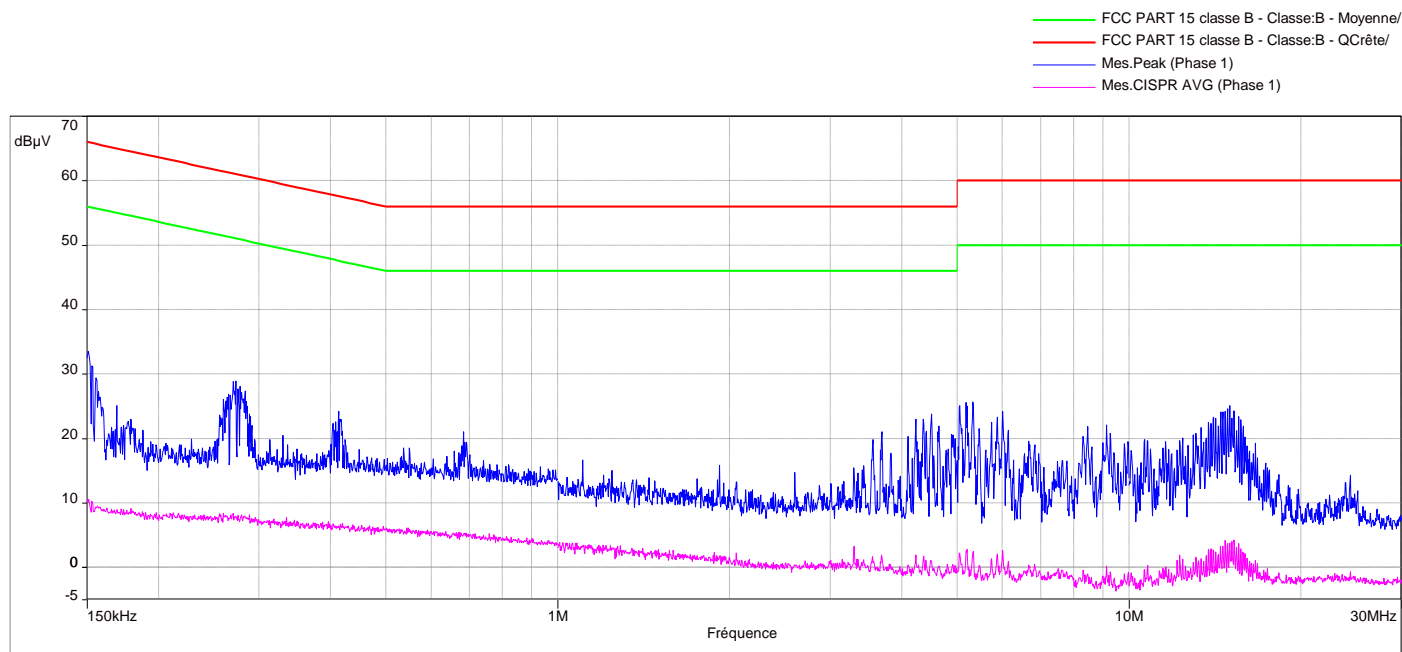


| Frequency (MHz) | Peak Level (dBμV) | Quasi-Peak Level (dBμV) | Quasi-Peak Limit (dBμV) | Margin peak/Quasi Peak (dB) | Average Level (dBμV) | Average Limit (dBμV) | Margin Avg/Avg (dB) |
|--------------------|----------------------|-------------------------------|-------------------------------|--------------------------------------|----------------------------|----------------------------|---------------------------|
| 0,15 | 32,9 | - | 66 | 33,1 | 9,3 | 56 | 46,7 |
| 0,507 | 24,2 | - | 56 | 31,8 | 6,3 | 46 | 39,7 |
| 3,41 | 24 | - | 56 | 32 | 1,9 | 46 | 44,1 |
| 4,88 | 29,5 | - | 56 | 26,5 | 2 | 46 | 44 |
| 7,5 | 26 | - | 60 | 34 | 0 | 50 | 50 |



Diagram N°3

Phase 120/60Hz

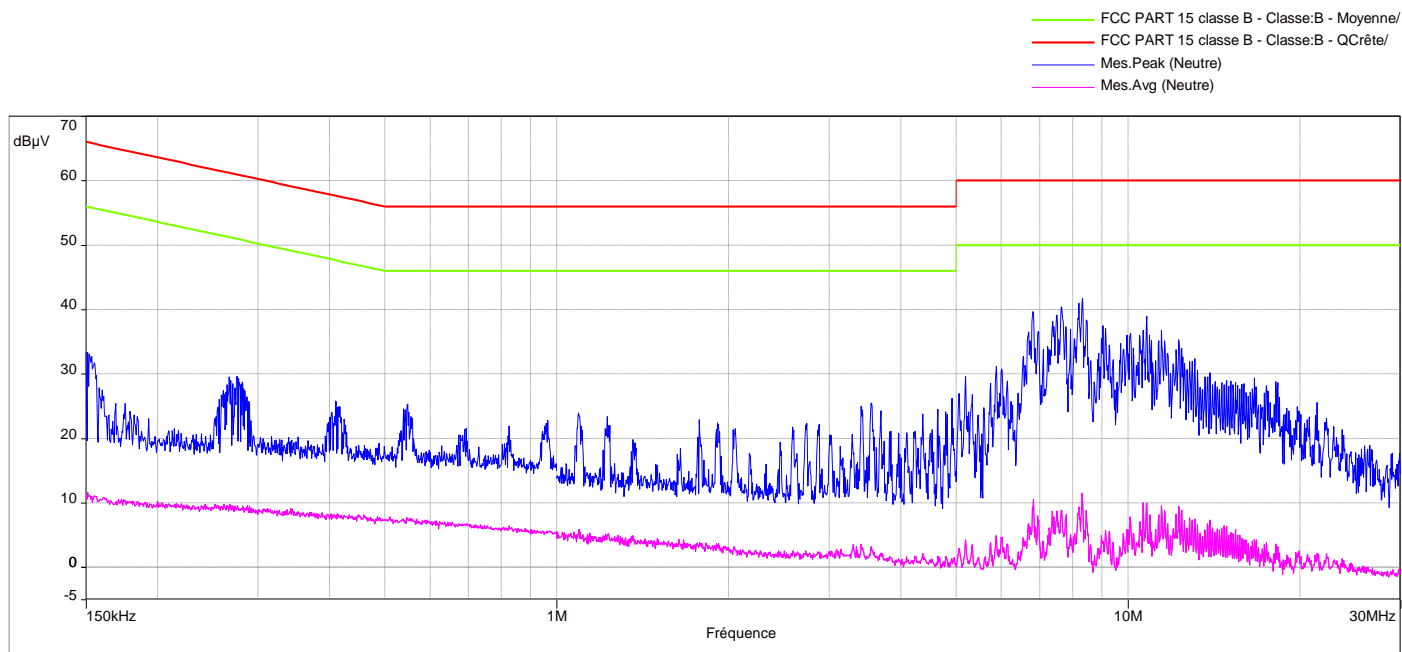


| Frequency (MHz) | Peak Level (dBμV) | Quasi-Peak Level (dBμV) | Quasi-Peak Limit (dBμV) | Margin peak/Quasi Peak (dB) | Average Level (dBμV) | Average Limit (dBμV) | Margin Avg/Avg (dB) |
|--------------------|----------------------|-------------------------------|-------------------------------|--------------------------------------|----------------------------|----------------------------|---------------------------|
| 0.15 | 33.5 | - | 66 | 32.5 | 10.1 | 56 | 45.9 |
| 0.685 | 21 | - | 56 | 35 | 5 | 46 | 41 |
| 4.5 | 22.8 | - | 56 | 33.2 | 3 | 46 | 43 |
| 5.33 | 25 | - | 60 | 35 | 2.5 | 50 | 47.5 |
| 14.73 | 24.2 | - | 60 | 35.8 | 15 | 50 | 35 |



Diagram N°4

Neutral 120/60Hz



| Frequency (MHz) | Peak Level (dBµV) | Quasi-Peak Level (dBµV) | Quasi-Peak Limit (dBµV) | Margin peak/Quasi Peak (dB) | Average Level (dBµV) | Average Limit (dBµV) | Margin Avg/Avg (dB) |
|--------------------|----------------------|-------------------------------|-------------------------------|--------------------------------------|----------------------------|----------------------------|---------------------------|
| 0.15 | 33.4 | - | 66 | 32.6 | 11 | 56 | 45 |
| 0.548 | 25.3 | - | 56 | 30.7 | 7 | 46 | 39 |
| 3.56 | 25 | - | 56 | 31 | 3 | 46 | 43 |
| 6.83 | 39.5 | - | 60 | 20.5 | 10.5 | 50 | 39.5 |
| 8.32 | 41.7 | - | 60 | 18.3 | 11.5 | 50 | 38.5 |



4.6. CONCLUSION

Measures of Conducted Emission, performed on the sample of the product ABLT02, SN: 1505131B3B, in configuration and description presented in this test report, show levels conform to the FCC part 15 & ICES -003 limits.



5. Uncertainties Chart

| Kind of measurement | Wide uncertainty laboratory (k=2) $\pm x$ (dB) | CISPR uncertainty limit $\pm y$ (dB) |
|--|---|---|
| Measurement of conducted disturbances in voltage on the AC power port (9 kHz – 150 kHz) | 3.68 | 3.8 |
| Measurement of conducted disturbances in voltage on the AC power port (150 kHz – 30 MHz) | 3.22 | 3.4 |
| Measurement of conducted disturbances in Capacitive voltage (150 kHz – 30 MHz) | 3.69 | 3.9 |
| Measurement of conducted disturbances in voltage AAN avec aLCL = 55 ... 40 dBc | 4.15 | 4.2 |
| Measurement of conducted disturbances in voltage AAN avec aLCL = 65 ... 50 dBc | 4.54 | 4.59 |
| Measurement of conducted disturbances in voltage AAN avec aLCL = 75 ... 60 dBc | 4.97 | 5.03 |
| Measurement of conducted disturbances in current (current clamp) | 2.9 | 2.9 |
| Measurement of disturbance power | 4.31 | 4.5 |
| Measurement of radiated magnetic field from 10kHz to 30MHz in SAC | 4.48 | / |
| Measurement of radiated electric field from 30 to 1000MHz in horizontal position on OATS & SAC | 5.79 | 6.3 |
| Measurement of radiated electric field from 30 to 1000MHz in vertical position on OATS & SAC at 3m | 6.3 | 6.3 |
| Measurement of radiated electric field from 6 to 18GHz | 5.36 | 5.5 |
| Measurement of radiated electric field from 30 to 1000MHz in horizontal position in OATS at 10m | 5.7 | 6.3 |
| Measurement of radiated electric field from 30 to 1000MHz in vertical position in in OATS at 10m | 5.61 | 6.3 |
| Measurement of radiated electric field from 1 to 6 GHz | 4.98 | 5.2 |
| Measurement of radiated magnetic field from 10kHz to 30MHz on the OATS (Ecuelles) | 4.48 | / |
| Measurement of current harmonics | 11.11% | / |
| Measurement of Flicker | 9.26% | / |
| Immunity to radiated. radio-frequency. electromagnetic field in SAC C01 (80MHz-1GHz) | 2.26 | / |
| Immunity to radiated. radio-frequency. electromagnetic field in SAC C01 (1-6GHz) | 2.42 | / |
| Immunity to radiated. radio-frequency. electromagnetic field in SAC V01 (80MHz-1GHz) | 2.5 | / |
| Immunity to radiated. radio-frequency. electromagnetic field in SAC V01 (1-6GHz) | 2.64 | / |
| Immunity to radiated. radio-frequency. electromagnetic field in SAC V05 (80MHz-1GHz) | 2.27 | / |
| Immunity to radiated. radio-frequency. electromagnetic field in SAC V05 (1-6GHz) | 2.64 | / |

End of test report

AUTO CONTROL

1. Measurement of radiated emissions

| Polarity antenna | Frequency MHz | Level measured dB μ V/m |
|------------------|------------------|--------------------------------|
| Vertical | 65 | 39.9 |
| Vertical | 115 | 48.6 |
| Vertical | 515 | 48.8 |
| Vertical | 900 | 40.5 |

2. Measurement of conducted disturbance

