


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>CN22P7OL 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	<b>244425427</b>	<b>Seite 1 von 21</b> <i>Page 1 of 21</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	<b>2401784</b>	<b>Auftragsdatum:</b> <i>Order date.:</i>	<b>2022-05-25</b>	
<b>Auftraggeber:</b> <i>Client:</i>	<b>Honbike B.V.</b> Herikerbergweg 238,1101 CM Amsterdam, Netherlands			
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>EPAC Bicycle</b>			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	<b>U4</b>			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	<b>TÜV Rheinland EMC service</b>			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	<b>EN 15194:2017, Annex C</b> <b>BS EN 15194:2017, Annex C</b>			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	<b>2022-06-07</b>			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	<b>A003272040-001</b>			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	<b>Refer to test report</b>			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	<b>Refer to clause 1.1</b>			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	<b>Refer to clause 1.1</b>			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>			
<b>geprüft von: / tested by:</b>	Somuns Chen			
<b>Datum: / Date:</b>	2022-06-23	<b>Datum: / Date:</b>	2022-06-23	
<b>Stellung: / Position:</b>	Senior project engineer	<b>Stellung: / Position:</b>	Senior manager	
<b>Sonstiges / Other:</b>	The requirements of above BS EN standard is the same as those of the EN standard. All the EMC tests were performed per EN standard. Refer to clause 2.2 for details.			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	<b>Prüfmuster vollständig und unbeschädigt</b> <i>Test item complete and undamaged</i>			
<small>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</small>				
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b></p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

V05

## TEST SUMMARY

5.1.1 RADIATED EMISSION

*Result:*

*Passed*

6.1.1 ELECTROSTATIC DISCHARGE

*Result:*

*Passed*

6.1.2 RF ELECTROMAGNETIC FIELD IMMUNITY TEST

*Result:*

*Passed*

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# 1 Test Sites

## 1.1 Test Facilities

**Laboratory: Wuxi Test center of Supervision and Inspection for Product Quality**  
**Address: No.8, Chunxin East Road, Dongting, Wuxi, Jiangsu, China**

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

The performed tests have been conducted by “Wuxi Test center of Supervision and Inspection for Product Quality”, under supervision of TÜV Rheinland’s engineer.

## 1.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

No.	Equipment	Model	Inventory no.	Cal. due date
1.	5m SAC	SAC-5-3	ES03-34	2025-12-09
2.	EMI Test Receiver	ESU 26	ES03-33-01	2023-04-10
3.	Ultra Broadband Antenna	SWB-VULB9163	ES03-33-03	2023-04-11
4.	ESD generator	NSG 437	ES03-36-02	2023-04-10
5.	Signal Generator	SMB100A	ES03-35-01	2023-04-10
6.	Amplifier	BBA150-A1800	ES03-35-14	2023-04-10
7.	Amplifier	BBA100-A125B500C250	ES03-35-03	2023-04-10
8.	Amplifier	AS0104-100/100	ES03-35-04	2023-04-10
9.	Power Meter	NRP2	ES03-35-02	2023-04-10
10.	High Gain EMS Antenna	VHBD9134-4+BBFA9146	ES03-35-16	N/A
11.	EMS Antenna	HL046	ES03-35-05	N/A
12.	High Gain Horn Antenna	ATH800M5G	ES03-35-06	N/A
13.	Field Probe	FL7006/KIT	ES03-35-08	2023-06-06

## 2 General Product Information

### 2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary EPAC bicycle for riding and similar use. For the further information, refer to the user's manual.

### 2.2 Ratings and System Details

System input voltage	: DC 36 V
Rated power	: 250 W
Cut off speed	: 25 km/h
Protection class	: III

### 2.3 Independent Operation Modes

The basic operation modes are: "On" and "Off".

### 2.4 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

### 2.5 Submitted Documents

Circuit diagram and rating label.

## 3 Test Set-up and Operation Modes

### 3.1 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

**Immunity:** The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

### 3.2 Physical Configuration for Testing

Refer to the related paragraph of this report.

### 3.3 Test Operation and Test Software

Refer to the related paragraph of this report.

### 3.4 Special Accessories and Auxiliary Equipment

None.

### 3.5 Countermeasures to achieve EMC Compliance

No special measure is employed to achieve the requirement.

## 4 Conformity Decision Rule

For all EMI tests (when included in this report), as measurement uncertainties are less than the values  $U_{\text{CISPR}}$  given in CISPR 16-4-2, compliance with the limits is determined by comparing measurement results directly with corresponding limits without taking into consideration of measurement uncertainties. For all EMS tests (when included in this report), measurement uncertainties are not considered as well according to corresponding test standards.

## 5 Test Results EMISSION

### 5.1 Emission in the Frequency Range above 30 MHz

#### 5.1.1 Radiated emission

<b>Result:</b>	<b>Passed</b>
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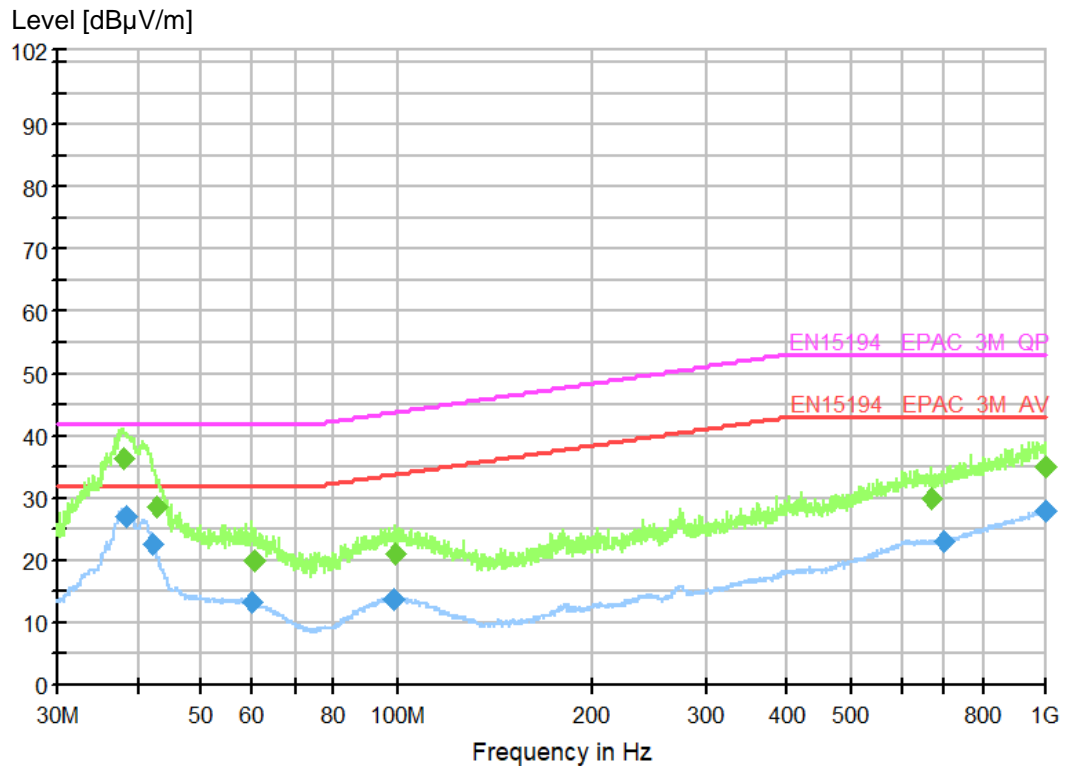
Date of testing	: 2022-06-07
Test procedure	: Annex C of EN 15194:2017 and CISPR 12:2007
Frequency range	: 30 – 1000 MHz
Limits	: Quasi-peak limits (3 m test distance, broad-band): 30 – 75 MHz, 44 dB $\mu$ V/m; 75 – 400 MHz, 44 – 55 dB $\mu$ V/m (The limits increase linearly with the logarithm of the frequency); 400 – 1000 MHz, 55 dB $\mu$ V/m. Average value limits (3 m test distance, narrow-band): 30 – 75 MHz, 34 dB $\mu$ V/m; 75 – 400 MHz, 34 – 45 dB $\mu$ V/m (The limits increase linearly with the logarithm of the frequency); 400 – 1000 MHz, 45 dB $\mu$ V/m.
Kind of test site	: Semi-anechoic chamber
Operation modes	: Continuous working with 75 % $\pm$ 10 % rated power
Ambient condition	: Temperature: 24 °C; Relative humidity: 52 %
Expanded measurement uncertainty ( $k=2$ )	: 4.34 dB for horizontal polarization 4.55 dB for vertical polarization

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the antenna was placed on the left and right sides of the EUT respectively and the height of the antenna was 1.8 m. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were those measured by an automatic measurement system. A preview test was firstly performed with peak detector. The final test was performed with quasi-peak detector and average detector at those critical frequencies during the preview test. In the following figures, red “◆” means measurement results with quasi-peak detector and blue “◆” means measurement results with average detector.

Note: According to clause C.1.2.2.2.3 and C.1.2.3.2.3 of EN 15194:2017, the measured values shall be at least 2.0 dB below the reference limits.

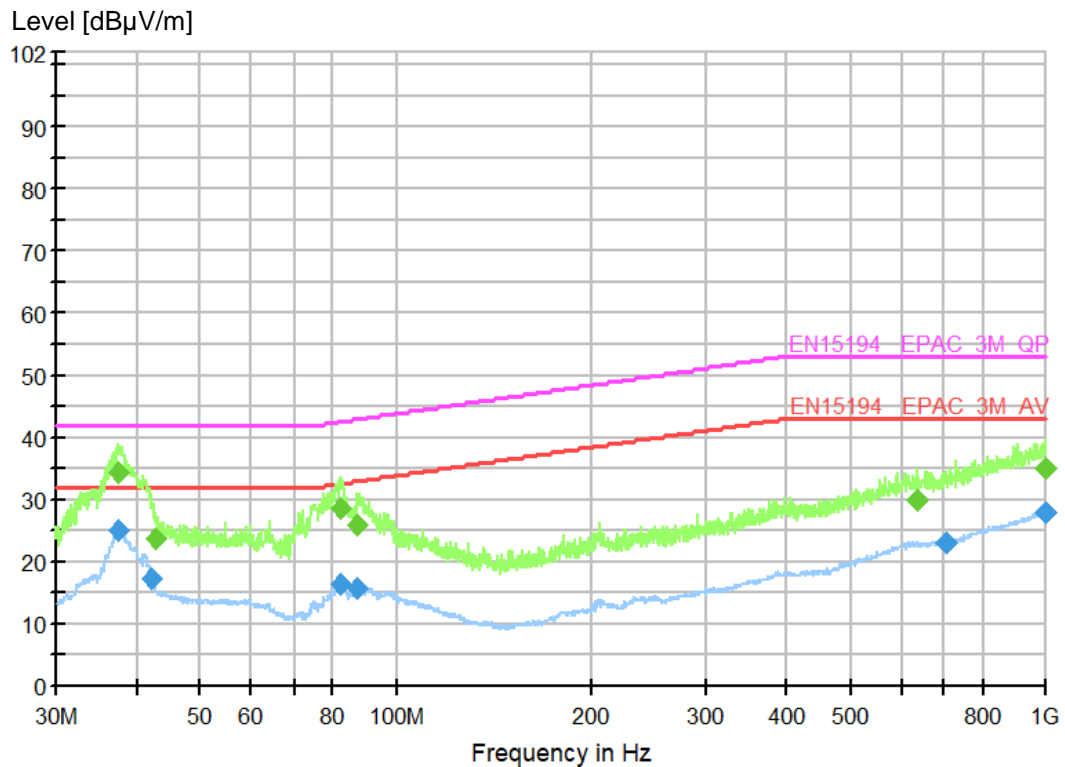


**Figure 1: Spectral diagrams and measurement results, 30 – 1000 MHz, Horizontal polarization, Left side**

**Final measurement results with quasi-peak detector:**

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
38.018731	36.3	1000.0	120.000	180.0	H	13.8	5.7	42.0
42.692403	28.7	1000.0	120.000	180.0	H	14.2	13.3	42.0
60.512298	20.0	1000.0	120.000	180.0	H	13.3	22.0	42.0
99.146622	20.9	1000.0	120.000	180.0	H	14.3	23.0	43.8
667.571443	29.9	1000.0	120.000	180.0	H	21.9	23.1	53.0
996.696240	35.0	1000.0	120.000	180.0	H	25.8	18.0	53.0

**Final measurement results with average detector:**

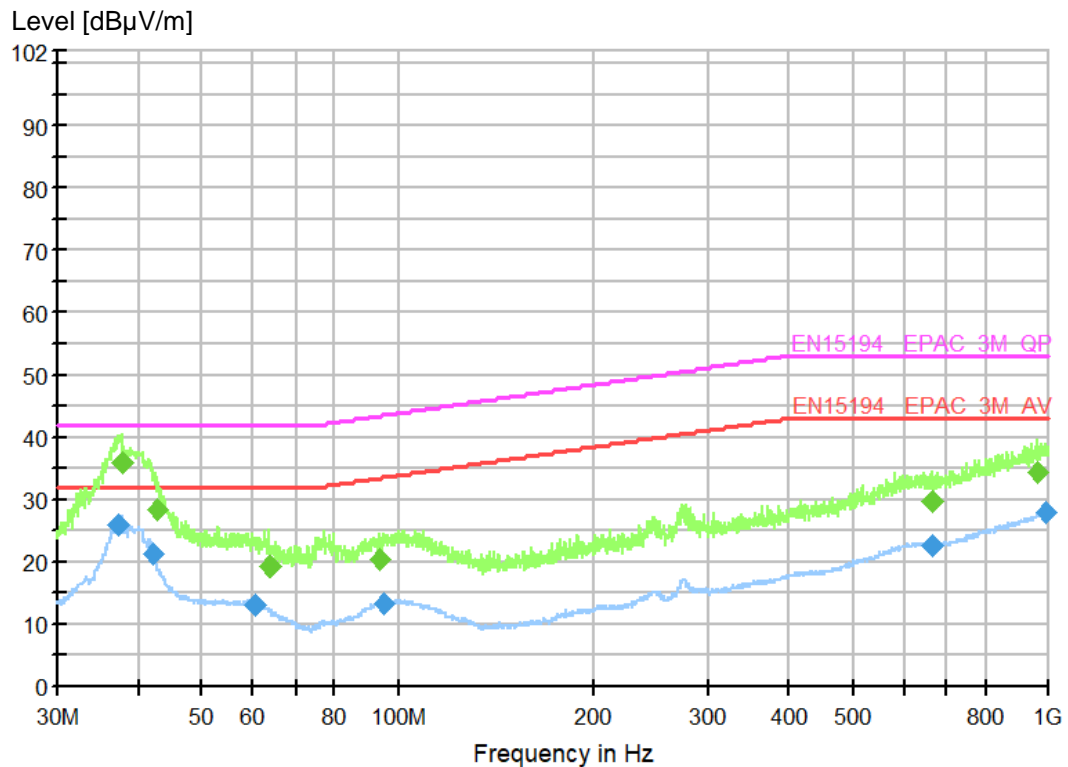
Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
38.131212	27.1	1000.0	120.000	180.0	H	13.8	4.9	32.0
42.007147	22.5	1000.0	120.000	180.0	H	14.3	9.5	32.0
60.032183	13.2	1000.0	120.000	180.0	H	13.5	18.8	32.0
98.957006	13.8	1000.0	120.000	180.0	H	14.2	20.0	33.8
696.287554	23.0	1000.0	120.000	180.0	H	22.1	20.0	43.0
998.292936	27.9	1000.0	120.000	180.0	H	25.8	15.1	43.0

**Figure 2: Spectral diagrams and measurement results, 30 – 1000 MHz, Vertical polarization, Left side**

**Final measurement results with quasi-peak detector:**

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
37.452987	34.4	1000.0	120.000	180.0	V	13.6	7.6	42.0
42.607147	23.6	1000.0	120.000	180.0	V	14.2	18.4	42.0
82.408799	28.6	1000.0	120.000	180.0	V	10.4	14.1	42.6
86.891980	26.0	1000.0	120.000	180.0	V	11.9	17.0	43.0
633.128180	29.9	1000.0	120.000	180.0	V	21.7	23.1	53.0
998.690629	34.9	1000.0	120.000	180.0	V	25.8	18.1	53.0

**Final measurement results with average detector:**

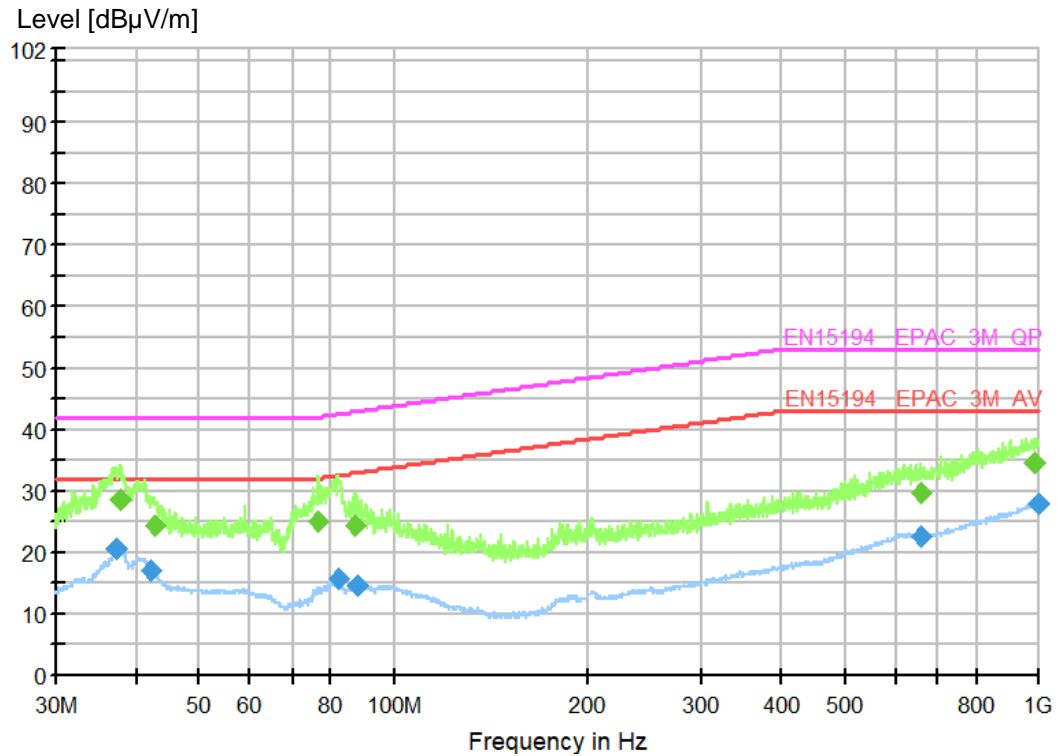
Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
37.409668	25.1	1000.0	120.000	180.0	V	13.6	6.9	32.0
42.049154	17.4	1000.0	120.000	180.0	V	14.3	14.6	32.0
82.301484	16.4	1000.0	120.000	180.0	V	10.4	16.2	32.6
87.425974	15.7	1000.0	120.000	180.0	V	12.1	17.3	33.0
702.381030	23.1	1000.0	120.000	180.0	V	22.1	19.9	43.0
997.092936	27.9	1000.0	120.000	180.0	V	25.8	15.1	43.0

**Figure 3: Spectral diagrams and measurement results, 30 – 1000 MHz, Horizontal polarization, Right side**

**Final measurement results with quasi-peak detector:**

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
37.565458	35.9	1000.0	120.000	180.0	H	13.7	6.1	42.0
42.649754	28.2	1000.0	120.000	180.0	H	14.2	13.8	42.0
63.486205	19.2	1000.0	120.000	180.0	H	12.2	22.8	42.0
93.843384	20.4	1000.0	120.000	180.0	H	13.8	23.1	43.5
660.272027	29.8	1000.0	120.000	180.0	H	21.8	23.2	53.0
963.394551	34.3	1000.0	120.000	180.0	H	25.5	18.7	53.0

**Final measurement results with average detector:**

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
37.113542	26.1	1000.0	120.000	180.0	H	13.6	5.9	32.0
42.007147	21.4	1000.0	120.000	180.0	H	14.3	10.6	32.0
60.457892	13.1	1000.0	120.000	180.0	H	13.4	18.9	32.0
94.848542	13.4	1000.0	120.000	180.0	H	13.9	20.1	33.5
664.307220	22.8	1000.0	120.000	180.0	H	21.9	20.2	43.0
995.305833	27.9	1000.0	120.000	180.0	H	25.7	15.1	43.0

**Figure 4: Spectral diagrams and measurement results, 30 – 1000 MHz, Vertical polarization, Right side**

**Final measurement results with quasi-peak detector:**

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
37.791415	28.8	1000.0	120.000	180.0	V	13.7	13.2	42.0
42.777831	24.2	1000.0	120.000	180.0	V	14.2	17.8	42.0
76.533549	25.1	1000.0	120.000	180.0	V	9.0	17.0	42.1
87.414637	24.5	1000.0	120.000	180.0	V	12.1	18.6	43.0
656.324223	29.8	1000.0	120.000	180.0	V	21.8	23.2	53.0
985.798079	34.7	1000.0	120.000	180.0	V	25.6	18.3	53.0

**Final measurement results with average detector:**

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
37.033993	20.5	1000.0	120.000	180.0	V	13.6	11.5	32.0
42.049754	17.1	1000.0	120.000	180.0	V	14.3	14.9	32.0
81.885181	15.8	1000.0	120.000	180.0	V	10.3	16.8	32.6
87.491980	14.8	1000.0	120.000	180.0	V	12.1	18.2	33.0
657.036929	22.8	1000.0	120.000	180.0	V	21.8	20.2	43.0
998.292936	27.9	1000.0	120.000	180.0	V	25.8	15.1	43.0

## 6 Test Results I M M U N I T Y

During the immunity tests, the EUT was operated under conditions specified by clause 3.1 and clause 6.1.2 of this report.

Performance criterion: A EPAC is deemed to fulfil the requisite immunity conditions if, during the tests carried out in the manner required by this clause, there are no abnormal changes in the speed of the EPAC's drive wheels, there are no signs of operational deterioration which might mislead other road users and there are no other noticeable phenomena which could result in a deterioration in the direct control of the EPAC.

## 6.1 Enclosure

### 6.1.1 Electrostatic Discharge

<b>Result:</b>	<b>Passed</b>
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During the test, the EUT was placed on 0.1 m wooden support above the ground plane. The minimum distance between the EUT and all other conductive structures except the ground plane beneath the EUT is more than 0.5 m. The size of the reference ground plane is more than 2 m by 2 m.

A vertical coupling plane (VCP) of dimensions 0.5 m x 0.5 m is placed parallel to and positioned at a distance of 0.1 m from the EUT.

Date of testing	:	2022-06-08
Test procedure	:	EN 61000-4-2:2009
Test level	:	Annex C.8 of EN 15194:2017 ± 4.0 kV contact discharge; ± 2.0 kV, ± 4.0 kV, ± 8.0 kV air discharge
Polarity	:	Positive / Negative
Number of discharges	:	≥ 10 for contact discharge at each point; ≥ 10 for air discharge at each point
Performance criteria	:	B, temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention
Ambient condition	:	Temperature: 20 °C; Relative humidity: 58 %

**Table 2: Electrostatic discharge immunity test results**

Position	Kind of Discharge	Remarks
Display	Air discharge	During the test, the EUT can operate as intended.
Cable	Air discharge	During the test, the EUT can operate as intended.
Plastic	Air discharge	During the test, the EUT can operate as intended.
Handle	Air discharge	During the test, the EUT can operate as intended.
Button	Air discharge	During the test, the EUT can operate as intended.
Lamp	Air discharge	During the test, the EUT can operate as intended.
Metal face	Contact discharge	During the test, the EUT can operate as intended.
VCP	Contact discharge	During the test, the EUT can operate as intended.

### 6.1.2 RF electromagnetic field immunity test

**Result:**
**Passed**

During the tests on the vehicle, only non-interference-generating equipment may be used. Under normal conditions, the vehicle was facing the antenna. The phase mid-point of all antennas was not less than 1.5 m above the vehicle plane. No part of the antenna radiator elements was less than 0.25 m from the vehicle plane. Greater homogeneity of the field might be obtained by placing the field generator as far as technically possible from the vehicle. The actual measuring distance was 2 m. The radiator elements of the field generator were not less than 0.5 m from any type of radio frequency absorption material and not less than 1.5 m from the wall of the installation in question. There was no absorption material between the transmitting antenna and the vehicle under test.

The field generator shall be positioned in the median longitudinal plane of the vehicle. The reference point was the point at which the field strengths were established and was defined as follows: a) horizontally, at least 2 m from the antenna phase mid-point; b) in the median longitudinal plane of the vehicle; c) at a height of  $(1.0 \pm 0.05)$  m above the vehicle plane; and at  $(0.2 \pm 0.2)$  m behind the vertical centre line of the vehicle's front wheel in the case of bicycles. The "substitution method" was used for the purpose of creating the field test conditions. During the calibration phase (before the vehicle was positioned on the test surface) the field strength was not less than 50 % of the nominal field strength at the following location: for all field-generating devices,  $(1.0 \pm 0.02)$  m on either side of the reference point on a line passing through this point, and perpendicular to the median longitudinal plane of the vehicle.

During the tests, except standstill mode, the engine of the EUT turned the driving wheels at a constant speed predetermined. All vehicle systems were operating normally. There was no electrical connection between the vehicle and the test surface and no connections between the vehicle and the equipment, contact between the wheels and the test surface was not regarded as an electrical connection.

Date of testing	: 2022-06-07
Basic standard	: Annex C.4 of EN 15194:2017
Test level	: 30 V/m
Frequency range	: 20 – 2000 MHz
Modulation	: 80 % 1 kHz AM
Frequency scan speed	: Frequency step: 2 % (according to ISO 11451-1) Dwell time: 2 s
Mode of the EUT	: Standstill mode & 90 % of the design max. assistance speed & 90 % of "the start up assistance mode"
Performance criteria	: Refer to page 13
Ambient condition	: Temperature: 24 °C; Relative humidity: 52 %

**Table 3: RF electromagnetic field immunity test results**

Polarization	Position	Result	Remarks
Vertical	Front side	Pass	The EUT can meet the requirements as described on page 13 of this report.

The following figures were calibration curves of the substitution test method.

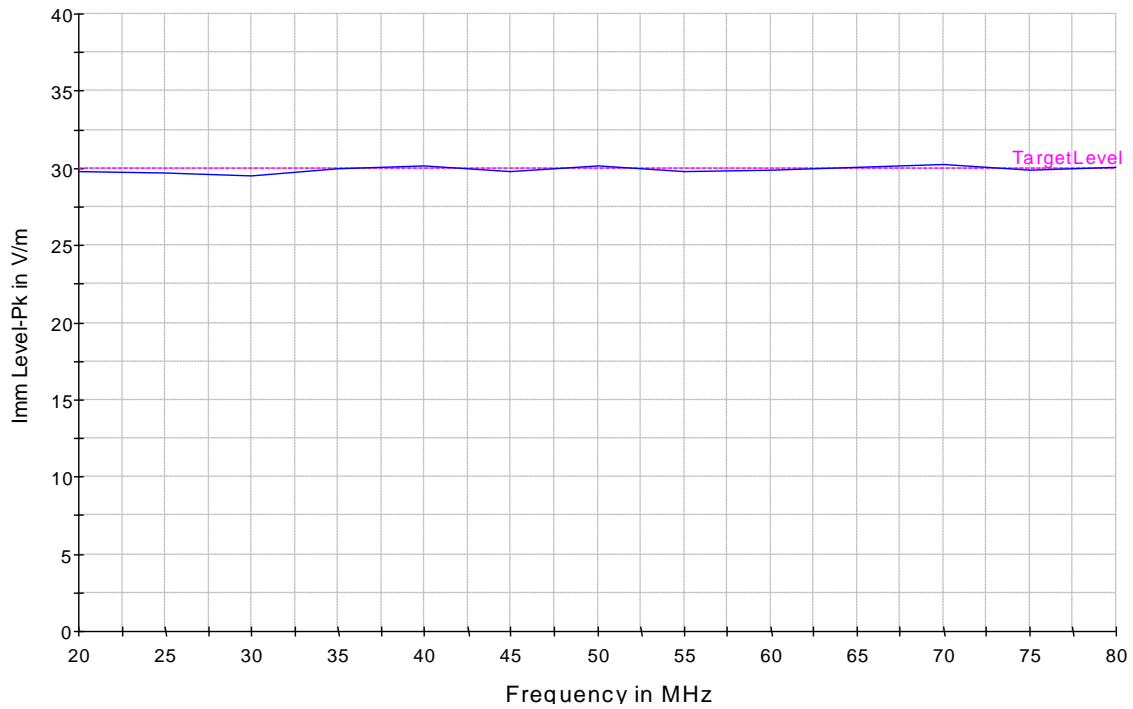
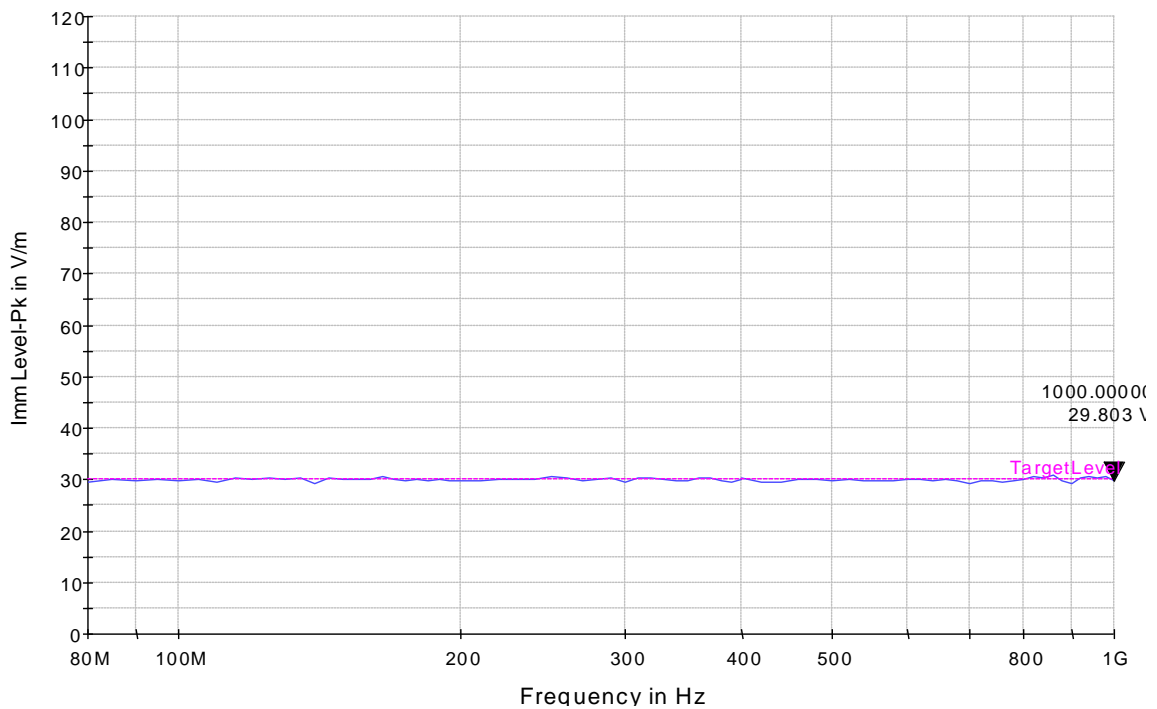
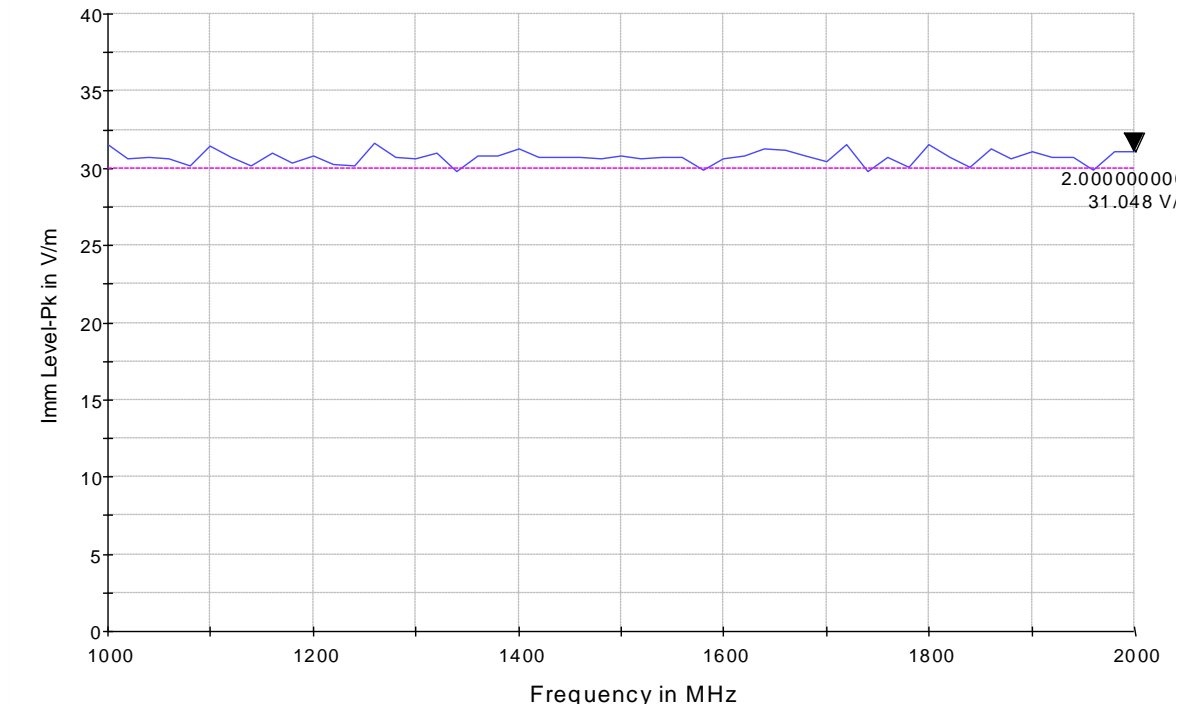
**Figure 5: Spectral diagrams of calibration for electromagnetic radiation immunity test, 20 – 80 MHz**

**Figure 6: Spectral diagrams of calibration for electromagnetic radiation immunity test, 80 – 1000 MHz**


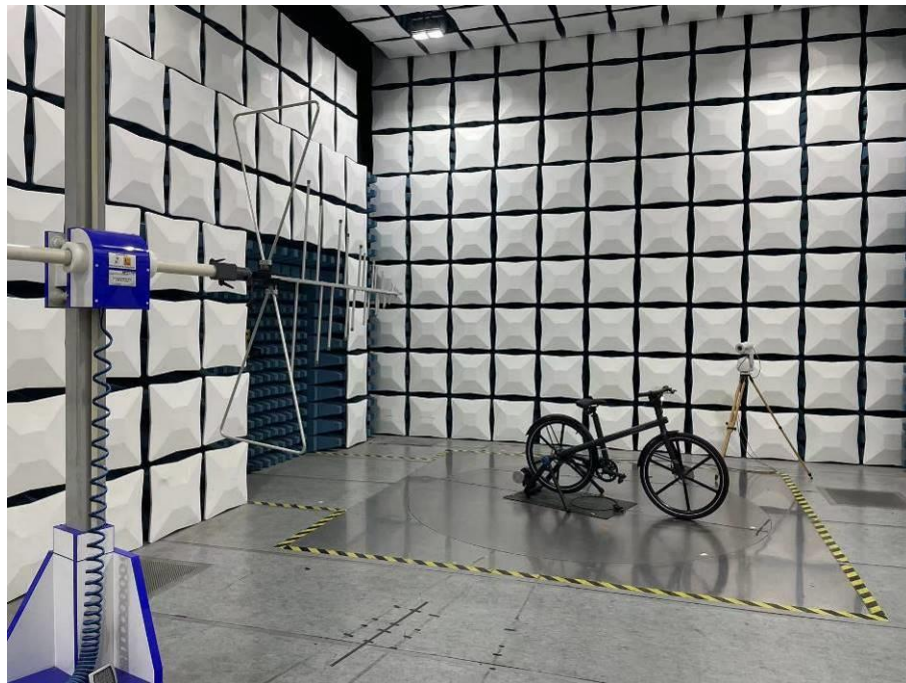


Figure 7: Spectral diagrams of calibration for electromagnetic radiation immunity test, 1000 – 2000 MHz



## 7 Photographs of the Test

**Photograph 1: Set-up of radiated emission measurement**



**Photograph 2: Set-up of electrostatic discharge immunity test**



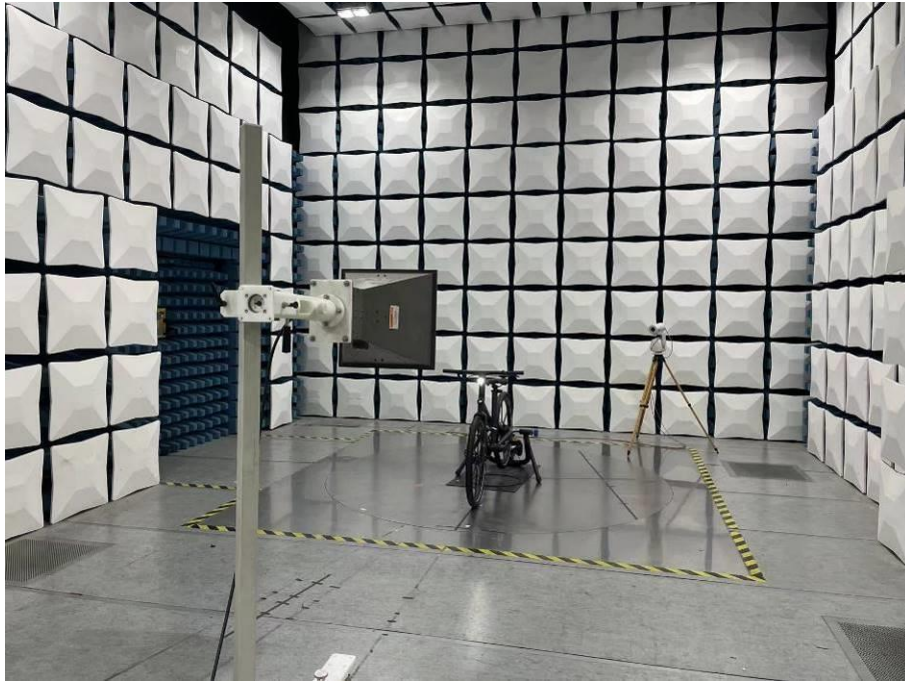
Photograph 3: Set-up of RF electromagnetic field immunity test



(20 – 80 MHz)



(80 – 1000 MHz)



(1000 – 2000 MHz)

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**End of Test Report**