

Project No: TM-2209000550P
Report No.: TMWK2209003995KS

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Rev.: 00

RF EXPOSURE REPORT

47 CFR Part 2.1093

For

Hand Free Module

Model: HFM201

Trade Name: Continental

Issued to

**Continental Automotive Technologies GmbH
Siemensstrasse 12 93055 Regensburg Germany**

Issued by

**Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan.
Issued Date: January 6, 2023**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 6, 2023	Initial Issue	ALL	Allison Chen



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1. TEST RESULT CERTIFICATION

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
47 CFR Part 2.1093	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

Approved by:

Sky Zhou
Asst. Section Manager
Compliance Certification Services Inc.

2. EUT SPECIFICATION

EUT	Hand Free Module								
Model	HFM201								
Trade Name	Continental								
Model Discrepancy	N/A								
Frequency band (Operating)	<input checked="" type="checkbox"/> 125 KHz <input type="checkbox"/> Others								
Device category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others								
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (E=614 V/m, H=1.63 A/m)								
Antenna Specification	Type: Winded wire coil Door antennas: Continental / A2C 98 300 400 / Gain: 0 dBi Interior antennas: Continental / A2C 53 119 236 / Gain: 0 dBi Kazashi: Kazashi / 251 50 5RA0A / Gain: 0 dBi								
Evaluation applied	<input type="checkbox"/> MPE Evaluation* <input checked="" type="checkbox"/> Maximum Permissible Evaluation <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A								
Received Date	October 3, 2022								
Date of Test	October 21, 2022								
Product version	<table border="1"> <tr> <td>PMN:</td><td>HFM201</td></tr> <tr> <td>HVIN:</td><td>HFM201</td></tr> <tr> <td>FVIN:</td><td>N/A</td></tr> <tr> <td>HMN:</td><td>N/A</td></tr> </table>	PMN:	HFM201	HVIN:	HFM201	FVIN:	N/A	HMN:	N/A
PMN:	HFM201								
HVIN:	HFM201								
FVIN:	N/A								
HMN:	N/A								
EUT Serial number	20744925062038								

Remark:

- For more details, please refer to the User's manual of the EUT.
- Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

3. MEASUREMENT EQUIPMENT USED

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: TW1309

Equipment Used for Emissions Measurement

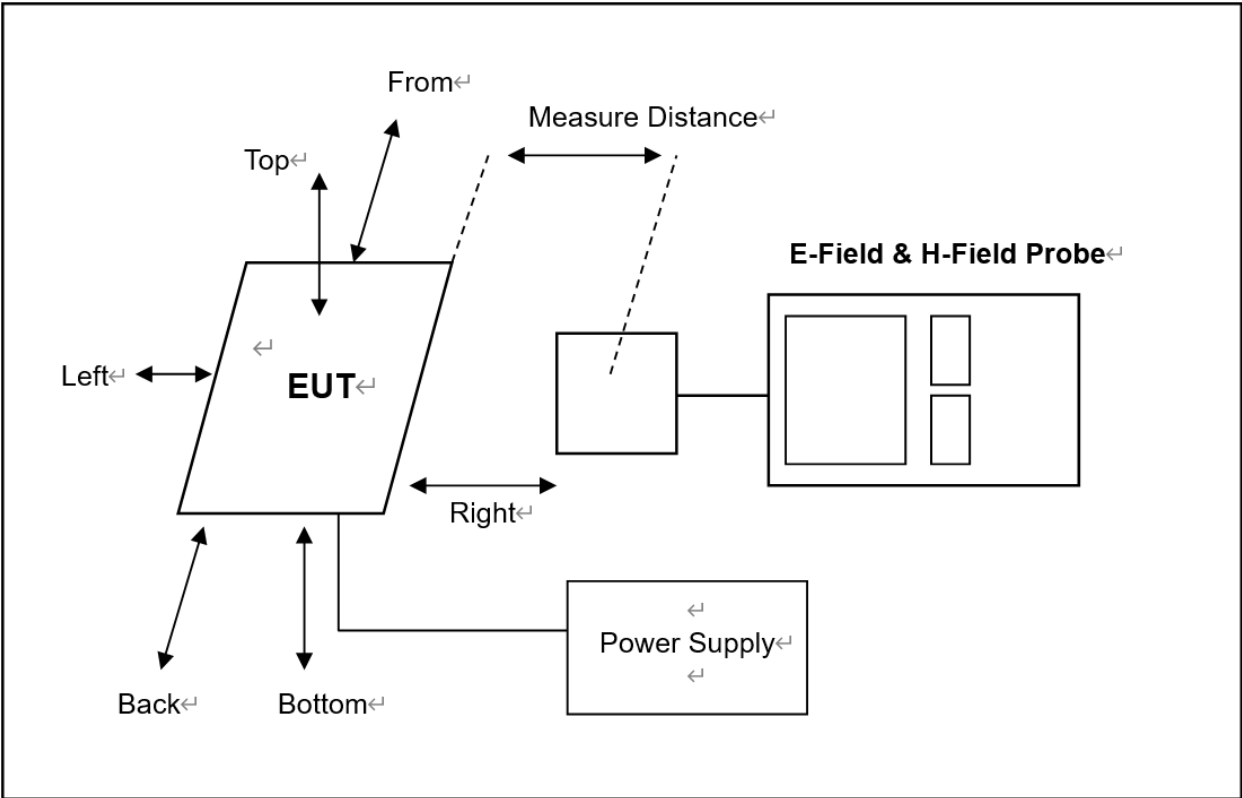
RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Isotropic Electric & Magnetic Field Probe	Narda	EHP-200AC	180ZX11018	2022-03-10	2023-03-09
Software	N/A				

MEASUREMENT UNCERTAINTY

Parameter	Frequency	Expanded Uncertainty (dB)	<i>k</i>
Electric Field Strength	9KHz ~300KHz	± 16.14 %	2
	300KHz ~10MHz	± 17.91 %	2
Magnetic Field Strength	9KHz ~300KHz	± 17.92 %	2
	300KHz ~10MHz	± 17.58 %	2

SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.
	N/A			



4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 Limits for Maximum Permissible Exposure

Table 1 - Limits for Maximum Permissible Exposure

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	* 100	6
3.0-30	1842/f	4.89/f	* 900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	* 100	30
1.34-30	824/f	2.19/f	* 180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
<u>1,500-100,000</u>			1.0	30

5. TEST RESULTS

Temperature: 24.1°C

Test Date: October 21, 2022

Humidity: 56.8% RH

Tested by: Jack Yang

Operating Frequency (kHz): 125 kHz

E-Field									
Operating Frequency (kHz)	Distance (cm)	Measure Frequency Range	Probe position Front (V/m)	Probe position Back (V/m)	Probe position Left Side (V/m)	Probe position Right Side (V/m)	Probe position Top (V/m)	Probe position Bottom (V/m)	Limit (V/m)
125	4.5	125 kHz	2.9941	2.8775	4.5612	2.9645	3.3955	6.3110	614

H-Field									
Operating Frequency (kHz)	Distance (cm)	Measure Frequency Range	Probe position Front (A/m)	Probe position Back (A/m)	Probe position Left Side (A/m)	Probe position Right Side (A/m)	Probe position Top (A/m)	Probe position Bottom (A/m)	Limit (A/m)
125	4.5	125 kHz	1.3134	0.8729	0.5390	1.3776	1.4232	1.2327	1.63

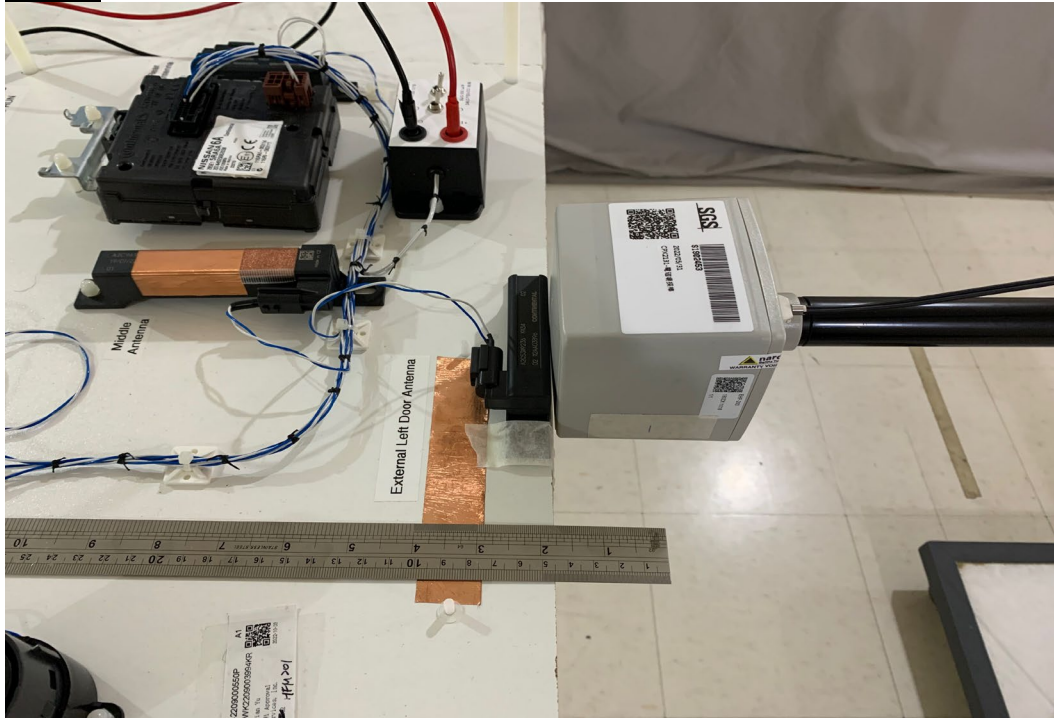
Remark:

1. The measured distance is from the edge of the device to the centre of the measurement probe.
2. There are no emissions produced by the device outside of the investigated frequency range.
3. For Distance 4.5cm, that is the measurement probe touched directly to the surface of the EUT.

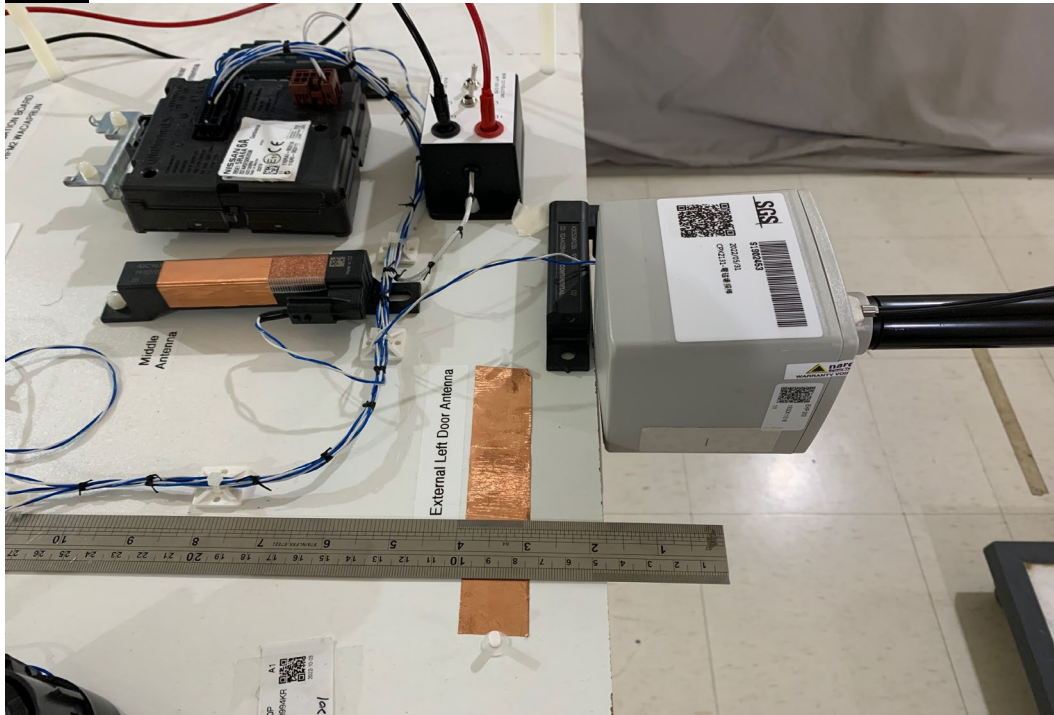
- End of Test Report -

6. PHOTOGRAPHS OF TEST SETUP

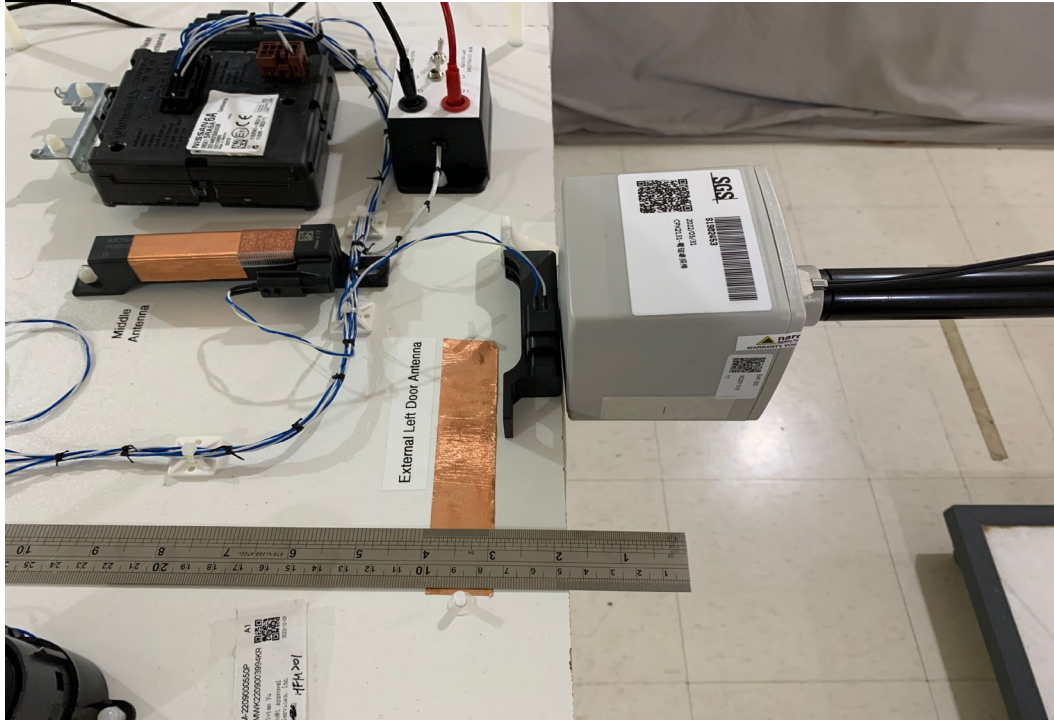
Front - 4.5cm



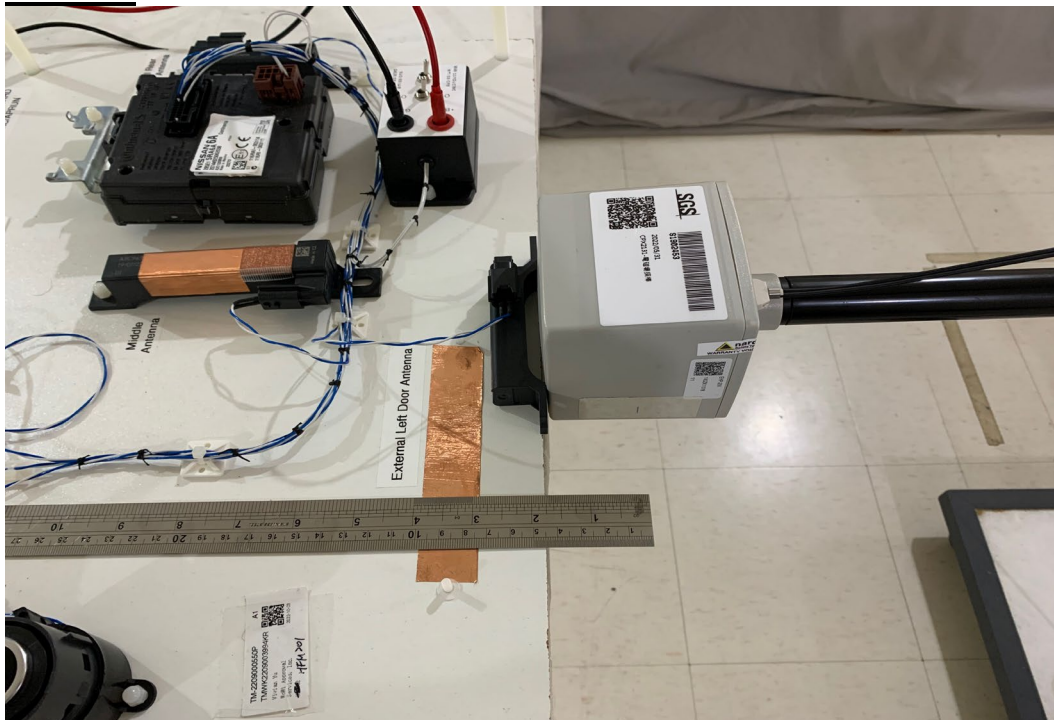
Rear - 4.5cm



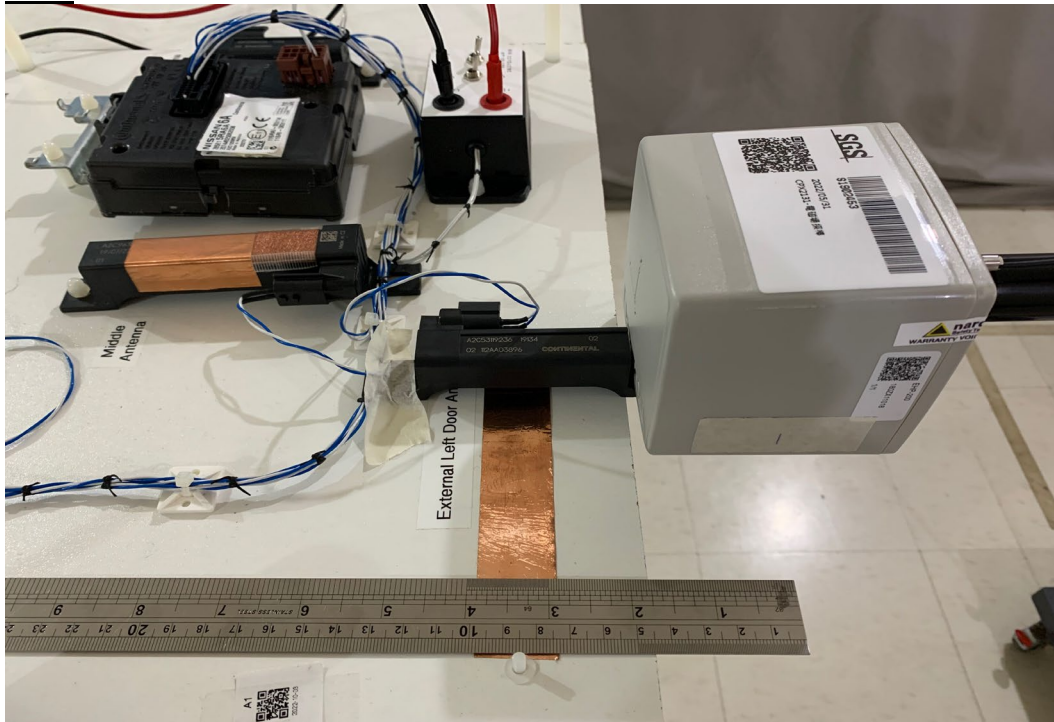
Top - 4.5cm



Bottom - 4.5cm



Left - 4.5cm



Right - 4.5cm

