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

Revision History

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

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION 4
2. EUT SPECIFICATION 5
3. MEASUREMENT EQUIPMENT USED 6
4. MAXIMUM PERMISSIBLE EXPOSURE 8
4.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE 8
5. TEST RESULTS 9
6. PHOTOGRAPHS OF TEST SETUP A-1

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)	☒ 125 KHz ☐ Others
Device category	☒ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure ☒ 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	☐ MPE Evaluation* ☒ Maximum Permissible Evaluation ☐ SAR Evaluation ☐ N/A
Received Date	October 3, 2022
Date of Test	October 21, 2022
Product version	PMN: HFM201 HVIN: HFM201 FVIN: N/A HMN: N/A
EUT Serial number	20744925062038

Remark:
1. For more details, please refer to the User's manual of the EUT.
2. 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

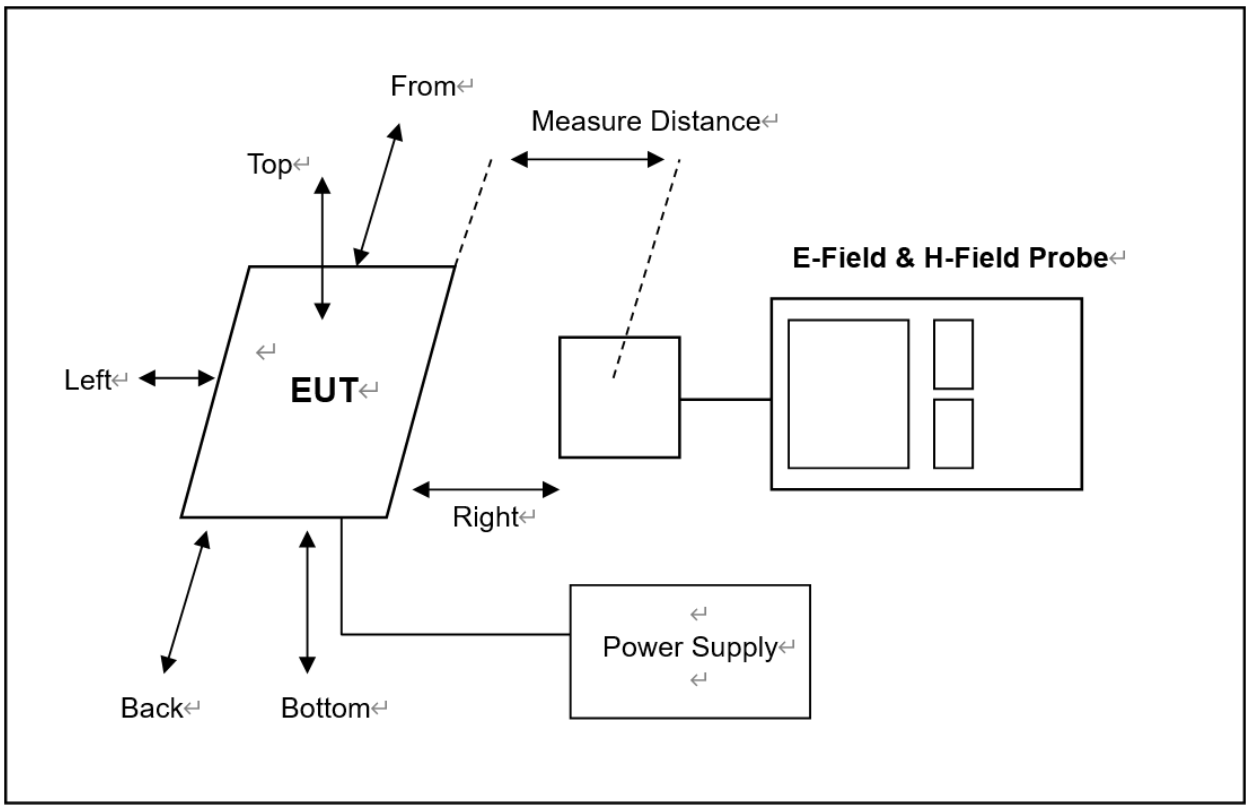
RF Conducted Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Isotropic Electric & Magnetic Field Probe	Narda	EHP-200AC	180ZX11018	2022-03-10	2023-03-09
Software	N/A				

MEASUREMENT UNCERTAINTY

Parameter	Frequency	Expanded Uncertainty (dB)	k
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
1,500-100,000			1.0	30

5. TEST RESULTS

Temperature: 24.1℃ **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

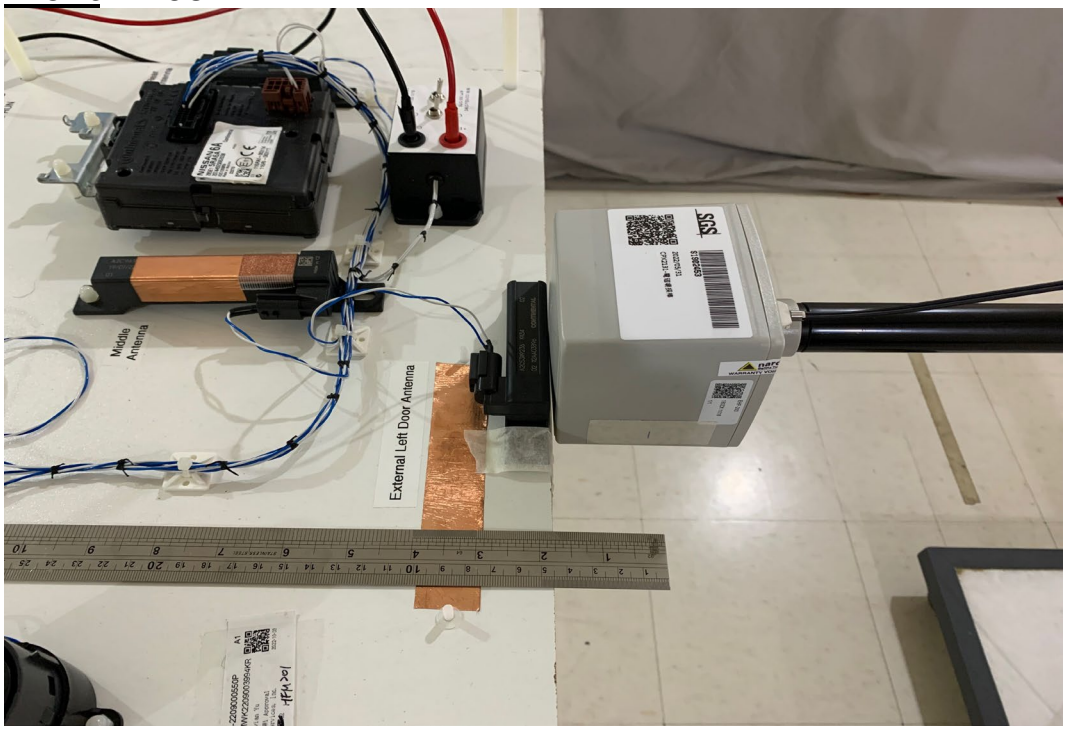
H-Field									
Operating Frequency (kHz)	Distance (cm)	Measure Frequency Range	Probe position Front (A/m)	Probe position Back (A/m)	Probe position Left Side (A/m)	Probe position Right Side (A/m)	Probe position Top (A/m)	Probe position Bottom (A/m)	Limit (A/m)
125	4.5	125 kHz	1.3134	0.8729	0.5390	1.3776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

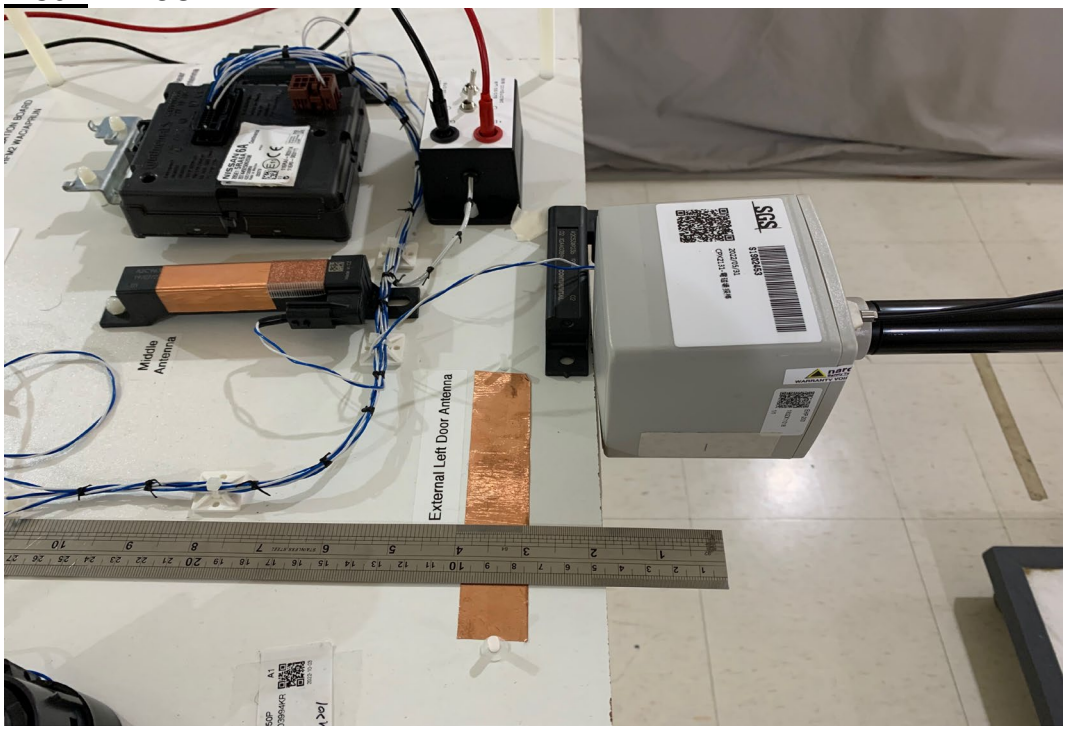
- End of Test Report -

6. PHOTOGRAPHS OF TEST SETUP

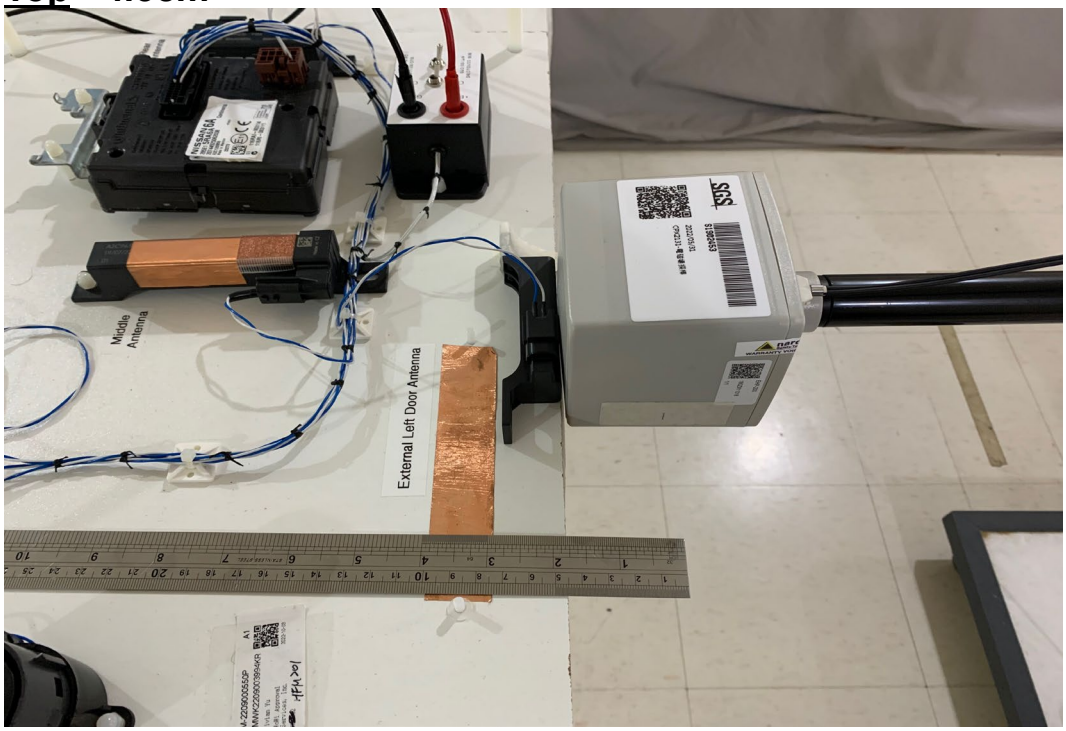
Front - 4.5cm



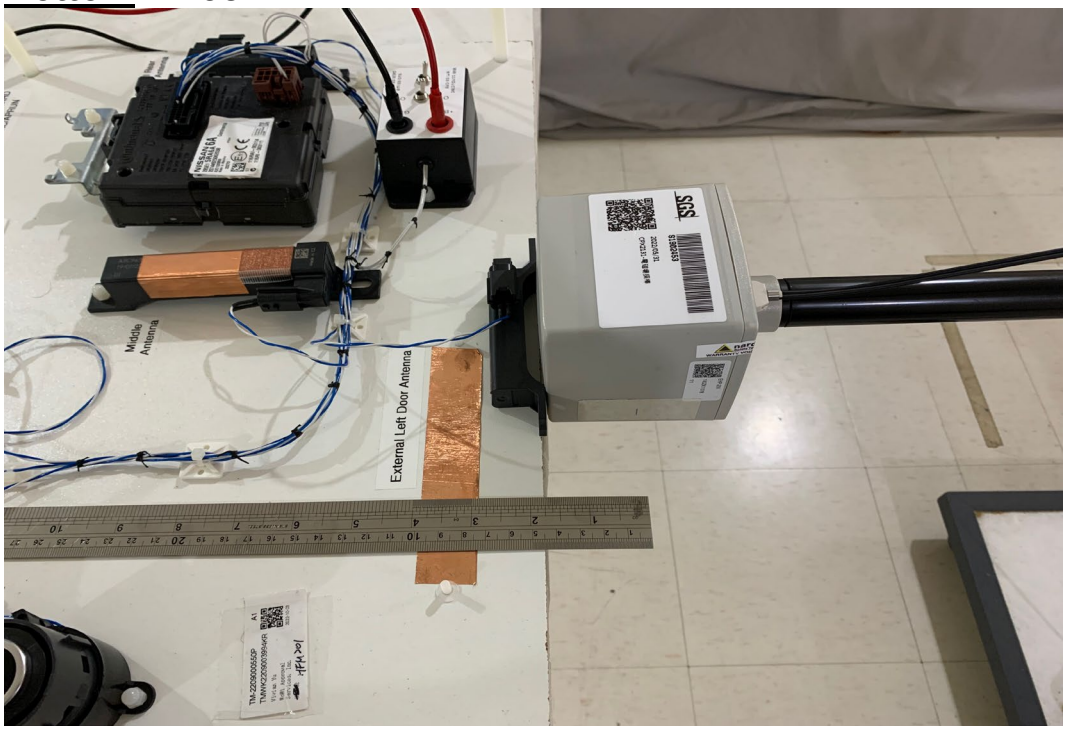
Rear - 4.5cm



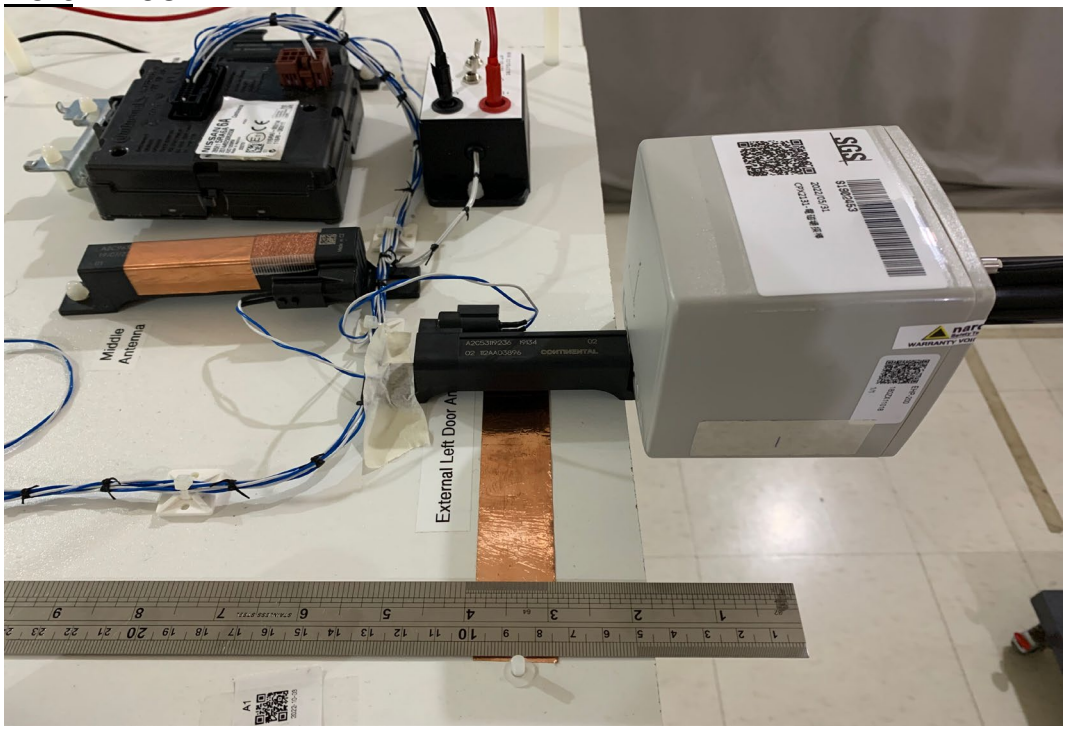
Top - 4.5cm



Bottom - 4.5cm



Left - 4.5cm



Right - 4.5cm