

Project No: TM-2204000392P
Report No.: TMWK2204001462KR FCC ID: 2AQUNQM133BD3

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KDB 680106 D01
47 C.F.R. Part 1, Subpart I, Section 1.1310
47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

13.3" LCD Touch Monitor

Model: QM-133BD-OPDR03, QM-133xxxxxxxxxxxxxxxxxxxxxx(where x may be alphanumeric character, symbol or blank for marketing purpose only, and no impact safety related constructions and critical components)

Trade Name: Quixant

Issued to

Quixant PLC Taiwan Branch
12F., No. 150, Jianyi Road, Zhonghe Dist., New Taipei City, 23511,
Taiwan (R.O.C.)

Issued by

Compliance Certification Services Inc.
Wugu Laboratory
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City, Taiwan. (R.O.C.)
Issued Date: April 28, 2022

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	April 28, 2022	Initial Issue	ALL	Doris Chu



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1. TEST RESULT CERTIFICATION

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
KDB 680106 D01 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	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:



Kevin Tsai
Deputy Manager
Compliance Certification Services Inc.

2. EUT SPECIFICATION

EUT	13.3" LCD Touch Monitor
Model	QM-133BD-OPDR03, QM-133xxxxxxxxxxxxxxxxxxxxxx(where x may be alphanumeric character, symbol or blank for marketing purpose only, and no impact safety related contructions and critical components)
Trade Name	Quixant
Model Discrepancy	The suffix of "X" (where x may be alphanumeric character, symbol or blank for marketing purpose only, and no impact safety related contructions and critical components) on model number is just for marketing purpose only.
Frequency band (Operating)	<input checked="" type="checkbox"/> 115 ~ 145KHz <input type="checkbox"/> Others
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" 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)
Antenna Specification	Coil Antenna
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation* <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A
Received Date	April 21, 2022
Date of Test	April 22, 2022

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.
- Disclaimer: Variant information between/among model numbers / trademarks are provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.

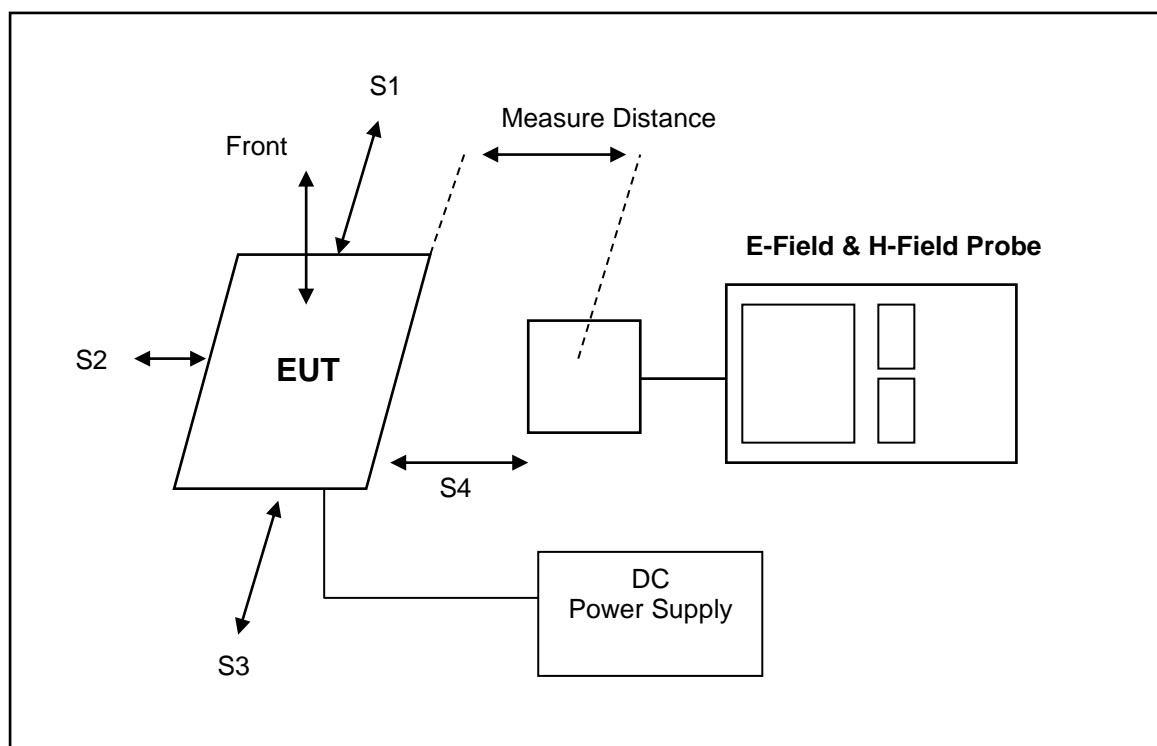
3. MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Antenna Probe	NARDA	EHP-200	180ZX11018	01/27/2022	01/26/2023
Software	N/A				

SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.
1	NB	Lenovo	20175	N/A





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4. MEASUREMENT UNCERTAINTY

PARAMETER		UNCERTAINTY	Expansion factor k
Electric Field Strength	9KHz ~300KHz	$\pm 16.14 \%$	2
	300KHz ~10MHz	$\pm 17.91 \%$	2
Magnetic Field Strength	9KHz ~300KHz	$\pm 17.92 \%$	2
	300KHz ~10MHz	$\pm 17.58 \%$	2

5. LIMIT

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310.

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of the chapter.

TABLE 1 - LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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				
<u>0.3-1.34</u>	<u>614</u>	<u>1.63</u>	* 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

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1 to Table 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Note 2 to Table 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

6. TEST RESULTS

Temperature: 23.5°C

Humidity: 59% RH

Tested by: Jerry Chang

Test Date: April 22, 2022

Operating Frequency (kHz)

115 ~ 145 kHz

E-Field								
Operating Frequency (kHz)	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)	50% Limit (V/m)	Limit (V/m)
115~145	0.577	0.795	0.76	0.542	0.683	0.765	307	614

Measurement distance at 15 cm surrounding the device and 20 cm above the top surface.

H-Field								
Operating Frequency (kHz)	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)	50% Limit (A/m)	Limit (A/m)
115~145	0.02	0.026	0.026	0.019	0.021	0.02	0.815	1.63

Measurement distance at 15 cm surrounding the device and 20 cm above the top surface.

- End of Test Report -